

MOONLIGHT GARDEN

MULTIFAMILY APARTMENTS

8901 NUCKOLS CROSSING RD

AUSTIN, TEXAS 78747



264 UNITS

OWNER:
MOONLIGHT GARDEN, LLC.
1469 SOUTH FOURTH STREET, LOUISVILLE, KY 40208
FRANK LEIST - 502.609.4940

CONTRACTOR:
XPRT DESIGN & CONSTRUCTION
1469 SOUTH FOURTH STREET, LOUISVILLE, KY 40208
FRANK LEIST - 502.609.4940

ARCHITECT:
KELLY GROSSMAN ARCHITECTS, LLC
260 ADDIE ROY ROAD, SUITE 210, AUSTIN, TX 78746
JOHN KELLY - 512.327.3397 (FAX) 512.327.0292

STRUCTURAL ENGINEER:
STERLING ENGINEERING
14025 WEST ROAD, SUITE, 201, HOUSTON, TX 77041
ZELJKO ARAPOVIC - 281.849.5564 (FAX) 281.583.5495

MEP ENGINEER:
NICHOLS ENGINEERING, LLC
912 S CAPITAL OF TEXAS HWY, SUITE 200, AUSTIN, TX 78746
DAVID NICHOLS - 512.593.5616 (FAX) 888.812.2539

CIVIL ENGINEER:
COSTELLO ENGINEERING & SURVEYING
1016 LA POSADA DR. SUITE 288, ASUTIN TX 78752
STEVEN BUFFUM - 512.646.3456

LANDSCAPE DESIGNER:
KELLY GROSSMAN ARCHITECTS, LLC
260 ADDIE ROY ROAD, SUITE 210, AUSTIN, TX 78746
DREW SCHELFHOUT - 512.327.3397 (FAX) 512.327.0292

CODE INFORMATION

ZONING :
CONSTRUCUION TYPE: VA FOR APARTMENT BUILDINGS
VB FOR GARAGES & CLUBHOUSE

OCCUPANCY :

GROUP R2- 3 STORY APARTMENTS
GROUP A3, B, S1 - 1 STORY CLUBHOUSE
GROUP U - 1 STORY DETACHED GARAGES

APPLICABLE BUILDING CODES:

2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL ENERGY CONSERVATION CODE
2015 INTERNATION FIRE CODE
2015 UNIFORM MECHANICAL CODE
2015 UNIFORM PLUMBING CODE
2017 NATIONAL ELECTRIC CODE
2012 TAS (TEXAS ACCESSIBILITY STANDARDS)
Project Registration #
2010 ADA STANDARD FOR ACCESIBLE DESIGN
FAIR HOUSING ACT 1988
ICC/A117.1-2009
TEXAS DEPARTMENT OF HOUSING & COMMUNITY AFFAIRS
U.S DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

REQUIRED SIGNATURES

OWNER

SIGNATURE _____ DATE _____
PRINTED NAME _____
TITLE _____

BOND COMPANY

SIGNATURE _____ DATE _____
PRINTED NAME _____
TITLE _____

GENERAL CONTRACTOR

SIGNATURE _____ DATE _____
PRINTED NAME _____
TITLE _____

ARCHITECT

SIGNATURE _____ DATE _____
PRINTED NAME _____
TITLE _____

LENDER

SIGNATURE _____ DATE _____
PRINTED NAME _____
TITLE _____

SDP #
PERMIT #

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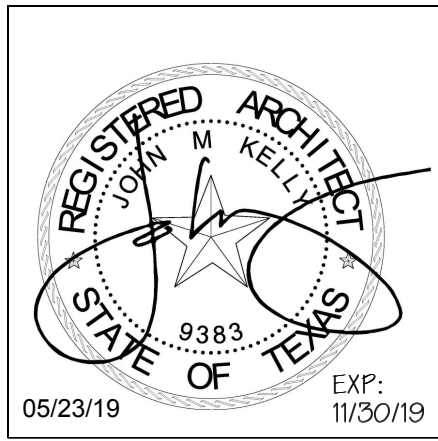
DPF,
MAR

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JMK

PROJECT #:

18-2325



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ARCHITECTURE • LAND PLANNING • LANDSCAPE DESIGN • CONSTRUCTION ADMINISTRATION •

KELLY GROSSMAN

REGISTERED PROFESSIONAL ARCHITECT
STATE OF TEXAS
9383
05/23/19
EXP: 11/30/19

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MOONLIGHT GARDEN

8901 NUCKOLLS CROSSING RD, AUSTIN TX
78747

No.	Revision	Date
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06-10-2019		
ISSUED FOR BID		
ISSUED FOR CONSTRUCTION		
DWG NAME		
DATE		
11/08/13		
DESCRIPTION		
INDEX		
SHEET		
0.1		

PROJECT DATA SHEET

Moonlight Garden

264 Units

Austin, Tx

June 11, 2019

LIVING AREA UNIT (S.F.) CALCULATIONS										NO. OF UNITS	APT MIX	TOTAL LIVING AREA (S.F.) CALCULATIONS									
UNIT TYPE	UNIT MIX	NET AREA		BALCONY / PATIOS	BALCONY STORAGE	DIRECT ACCESS GARAGES	GROSS AREA					HUD (1)	MARKET (3)	TOTAL NET		BALCONY / PATIOS	BALCONY STORAGE	DIRECT ACCESS GARAGES	TOTAL GROSS		
		DESCRIPTION	HUD (1)				MARKET (3)	HUD (2)						MARKET (4)	HUD (1)				MARKET (3)	HUD (2)	MARKET (4)
A1	1BR/1BATH	799	851	45	21	0	851	918	46	17%	36,754	39,146	2,070	966	0	39,146	42,228				
A1-HC	1BR/1BATH	797	852	45	21	0	852	919	2	1%	1,594	1,704	90	42	0	1,704	1,838				
B1	2BR/2BATH	1,025	1,099	45	16	0	1,099	1,160	24	9%	24,600	26,376	1,080	384	0	26,376	27,840				
B1-E	2 BR/2 BATH	1,025	1,106	45	16	0	1,106	1,167	53	20%	54,325	58,618	2,385	848	0	58,618	61,851				
B1-E2	2 BR/2 BATH	1,025	1,113	45	16	0	1,113	1,174	34	13%	34,850	37,842	1,530	544	0	37,842	39,916				
B1-HC-E	2 BR/2 BATH	1,025	1,113	45	16	0	1,113	1,174	9	3%	9,225	10,017	405	144	0	10,017	10,566				
C1	3 BR/2 BATH	1,190	1,268	47	23	0	1,268	1,337	92	35%	109,480	116,656	4,324	2,116	0	116,656	123,004				
C1 HC	3 BR/2 BATH	1,190	1,268	47	23	0	1,268	1,337	4	2%	4,760	5,072	188	92	0	5,072	5,348				
									264	100%	275,588	295,431	12,072	5,136	-	295,431	312,591				

BUILDING ANALYSIS										
UNIT TYPE	BUILDING TYPES	I	II	III	IV	V	VI	VII	VIII	NUMBER OF UNITS
	NUMBER OF STORY	4	4	4	3	3	4	4	3	
	QUANTITY PER BUILDING TYPE	5	2	1	0	0	0	0	0	
A1	1BR/1BATH	6	5	6	0	0	0	0	0	46
A1-HC	1BR/1BATH	0	1	0	0	0	0	0	0	2
B1	2BR/2BATH	3	3	3	0	0	0	0	0	24
B1-E	2 BR/2 BATH	7	6	6	0	0	0	0	0	53
B1-E2	2 BR/2 BATH	4	4	6	0	0	0	0	0	34
B1-HC-E	2 BR/2 BATH	1	2	0	0	0	0	0	0	9
C1	3 BR/2 BATH	12	10	12	0	0	0	0	0	92
C1 HC	3 BR/2 BATH	0	2	0	0	0	0	0	0	4
TOTAL UNITS		165	66	33	0	0	0	0	0	264
BUILDING TYPES		I	II	III	IV	V	VI	VII	VIII	TOTAL
QUANTITY PER BUILDING TYPE		5	2	1	0	0	0	0	0	8
HUD GROSS SF TOTALS @ BUILDING		36,926	36,934	36,933	-	-	-	-	-	
HUD GROSS SF TOTALS FOR BUILDINGS		184,630	73,868	36,933	-	-	-	-	-	295,431

EXTERIOR FINISH MATERIALS										
NOTE: Indicate percentages of each siding material used		Percent of Brick	0%	0%	0%	0%	0%	0%	0%	0%
		Percent of Stone	48%	47%	47%	0%	0%	0%	0%	47%
		Percent of Stucco	17%	17%	17%	0%	0%	0%	0%	17%
		Percent of Fiber Cement Siding	35%	36%	36%	0%	0%	0%	0%	36%
TOTAL		100%	100%	100%	0%	0%	0%	0%	0%	100%

SITE ANALYSIS	
ACTUAL:	
Gross Land Area:	13.5641 ACRES
Total Apartment Units:	264 Units
Actual Density:	19.5 UNITS per ACRE
Elevators:	0 Elevators
REQUIRED:	
ZONING: R-2	

HUD/Market Apartment Unit Definitions
Net & Gross SF Area Calculations
Apartments ONLY

(1) HUD NET AREA: Defined as "Paint-to-Paint".
It is the living area of a unit measured to the inside face of perimeter drywall.

(2) HUD GROSS AREA: Defined by adding thickness (width) of unit perimeter stud walls, includes thickness of corridor walls and includes the area measured to the centerline of any party wall. HUD gross sf also includes the area of a direct access garage if provided for the unit

(3) MARKET NET AREA: ref BOMA/IREM, ANSI-Z765
Unit Area (S.F.) Defined by adding thickness (width) of unit perimeter stud walls, includes thickness of corridor walls and includes the area measured to the centerline of any party walls

(4) MARKET GROSS AREA: Add area of attached balconies and exterior storage closets to Market Net area calculations.

PARKING ANALYSIS (Please see NOTES for HC Parking Requirements)			
REQUIRED PARKING:		420	
ACTUAL SPACES:	STANDARD	ACCESSIBLE	TOTAL
SURFACE	393	18	411
VISITOR PARKING	0	0	0
DIRECT ACCESS GARAGES	0	0	0
ATTACHED GARAGES	0	0	0
DETACHED GARAGES	30	2	32
CARPORTS	0	0	0
PARKING GARAGE	0	0	0
Total	423	20	443

OTHER BUILDINGS				TOTAL SF
CLUBHOUSE				4,392
SUBTOTALS				299,823
OTHER SPACES		NUMBER	S.F./each	TOTAL SF
FIRE SPRINKLER CLOSET		8	45	360
BUILDING A BREEZEWAYS		6	4,152	24,912
BUILDING B BREEZEWAYS		2	4,115	8,230
BUILDING C BREEZEWAYS		2	4,112	8,224
DETACHED GARAGES 30 STALLS		30	224	6,720
MAINTENANCE		1	634	342
TOTAL AREA OF BUILDINGS				348,611
EXTERIOR SPACES		NUMBER	S.F./each	TOTAL SF
CLUBHOUSE PATIOS		1	436	436
SWIMMING POOL & DECK AREA		1	5,550	5,550
TRASH DUMPSTERS		4	280	1,120

HUD S.F. ANALYSIS TOTALS	
NET LIVING AREA:	275,588
GROSS LIVING AREA:	295,431
GROSS AREA plus Other Spaces	348,611

HUD GROSS FLOOR AREA (ref HUD 2264 - Page2 Section C33) (See Note 5)	
GROSS LIVING AREA:	295,431
CLUBHOUSE	4,392
TOTAL BREEZEWAYS	41,366
MAINTENANCE	342
Total HUD Gross Floor Area	341,531

(5) HUD GROSS FLOOR AREA: The sum of the areas of headroom height within the exterior walls, measured to the exterior faces of the walls or to the center line of walls separating attached buildings.
NOTE: Built-in garages, commercial area, basement and all other areas within the exterior walls are to be included. Items excluded: recessed, extended or continuous balconies, attached or detached carports accessory buildings, patios, porches, or terraces and all other areas outside the exterior walls
accessory buildings, patios, porches, or terraces and all other areas outside the exterior walls

ARCHITECTURE • LAND PLANNING • LANDSCAPE DESIGN • CONSTRUCTION ADMINISTRATION •
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11/08/13		
DESCRIPTION		
TABS		
SHEET		
0.2		

CODE ANALYSIS AND VERIFICATION
APPLICABLE BUILDING CODE: 2015 INTERNATIONAL CODE (IBC)

Norwood Estates
Austin, Tx

APPLICABLE BUILDING CODES
2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL ENERGY CONSERVATION CODE
2015 INTERNATIONAL FIRE CODE
2015 UNIFORM MECHANICAL CODE
2015 UNIFORM PLUMBING CODE
2017 NATIONAL ELECTRIC CODE
WCITY OF AUSTIN AMENDMENTS

APARTMENT BUILDINGS
R-2

RESIDENTIAL CLASSIFICATION R-2 PER SECTION 310.4

CONSTRUCTION TYPE

TYPE Y-A / 1 HOUR
SPRINKLED PER NFPA 13R PER 2015 IBC AND 2015 IFC SECTION 903.3.12
3 STORY/MEAN ROOF HEIGHT OF TALLEST BUILDINGS: 40'-0"

FIRE RESISTANCE

STRUCTURAL FRAME 1 HOUR (TABLE 601)
EXIT ACCESS CORRIDORS - 1 HOUR REDUCED TO 1/2 HOUR WITH SPRINKLER SYSTEM PER 2015 IBC TABLE 1020.1
DWELLING SEPARATIONS - 1 HOUR PER SEC. 708.3
LOAD BEARING EXTERIOR WALLS - 1 HOUR PER TABLE 601
NON LOAD BEARING INTERIOR PARTITIONS - NON-RATED
ROOF / CEILING ASSEMBLIES - 1 HOUR PER TABLE 601
FLOOR / CEILING ASSEMBLIES - 1 HOUR PER TABLE 601
PATIO/BALCONY - 1 HOUR

FIRE PROTECTION

THE MOST REMOTE PORTION OF SPRINKLED FLOOR OR STORY IS WITHIN 200 FEET FROM A HOSE CONNECTION PER SECTION 905.3.1 (AUSTIN AMENDMENT)

FIREBLOCKING IN CONCEALED SPACES SECT. 718.2; REF. SHEET A5.2
DRAFTSTOPS IN FLOORS PER SECT 718.3; ABOVE AND IN LINE WITH DWELLING UNIT SEPARATIONS
DRAFTSTOPS IN ATTICS PER SECT 718.4.2 - ABOVE AND IN LINE WITH EVERY TWO DWELLING UNITS, 3,000 SF. MAX.

EMERGENCY EGRESS - MIN. WINDOW SIZE AT BEDROOMS, NOT APPLICABLE
EXCEPTIONS FOR SPRINKLED BLDGS. - EGRESS WINDOWS NOT REQUIRED SEC. 1030.1, EXCEPTION 2.
NATURAL LIGHT - MINIMUM 8% OF FLOOR AREA PER SECT. 1205.2
MECHANICAL OR NATURAL VENTILATION PER SECT. 1203.5

ATTIC ACCESS - 20"x30" MIN. ATTIC ACCESS DOOR AT SPECIFIED UNITS PER SECT. 1209.2

SMOKE DETECTORS AT EACH SLEEPING ROOM AND IN CORRIDOR PER
AND AT VAULTED CEILING IN LIVING ROOM PER IBC SEC. 907.2.9.2 & 907.2.11.2
FIRE SPRINKLERS PER NFPA 13R - SEE ABOVE

DISTANCE TO FIRE LANE - 200' AS HOSE LAYS FROM HOSE CONNECTION TO FARTHEST PORTION OF SPRINKLED FLOOR OR STORY PER SEC. 905.3.1 (AUSTIN AMENDMENT)
FIRE ALARM SYSTEMS PER SECT. 907.2.9

ALLOWABLE HEIGHT & ALLOWABLE AREA CALCULATIONS

ALLOWABLE BUILDING HEIGHT:
MAXIMUM OF 50 FEET AND/OR 3 STORIES PER IBC TABLE 504.3 & 504.4
TALLEST ACTUAL BUILDING HEIGHT: 40'-0"

ALLOWABLE FLOOR AREA:
12,000 SQ. FT./FLOOR (TABLE 506.2), INCREASE FT./FLOOR WITH FRONTAGE INCREASE PER SECT. 506.3

ALLOWABLE FLOOR AREA: 12,000 SF
ALLOWABLE BUILDING AREA: 36,000 SF

LARGEST PROPOSED FLOOR AREA: 15,356 SF
LARGEST PROPOSED BUILDING AREA: 44,414 SF

SOUND INSULATION

STC 50 MIN. FLOORS / WALLS
(45 FIELD TEST) SEC. 1207.1 - 1207.2
IIC 50 MIN.
(45 FIELD TEST) SEC. 1207.3

MEANS OF EGRESS PER IBC 2015 CHAPTER 10

MINIMUM SEPARATION
1/2 DIAGONAL OF AREA SERVED WHEN BLDG. IS SPRINKLED PER SEC. 1007.1.1 EXCEPTION 2
MAXIMUM SEPARATION: CLASSIFICATION R

250' WITH SPRINKLERS PER TABLE 1017.2
OCCUPANCY CALCULATION: FLOOR AREA (S.F.) / OCCUPANT RATIO (FOR CLASSIFICATION R) = 200 SF PER OCCUPANT - PER TABLE 1004.1.2
REFER TO LIFE SAFETY SHEETS FOR OCCUPANCY CLASIFICATION / CALCULATION

MAX. EXIT TRAVEL DISTANCE FROM MOST REMOTE POINT IN UNIT TO A CHOICE OF TWO WAYS FOR EXITING IS 250' PER TABLE 1017.2

MIN. CEILING HT. 7'-6" IN EXITWAY EXCEPT @ ABOVE SLOPED CEILINGS - SEC. 1003.2
STAIRWAYS-MIN.: 6'-8" MEASURED ABOVE POINT OF ANGLE OF TREADS - SEC. 1011.3

DEAD END CORRIDOR MAX. LENGTH - 20' SEC. 1020.4

DWELLING UNIT ENTRY DOORS TO BE 20 MIN. WITH SMOKE SEALS

STAIRS

WIDTH - 44" MIN. PER SEC. 1011.2
MAXIMUM RISER - 7" PER SEC. 1011.5.2
MINIMUM TREAD - 11" PER SEC. 1011.5.2

EXCEPTION 1: STAIRWAYS SERVING AN OCCUPANT LOAD OF 50 OR LESS SHALL HAVE A WIDTH OF NOT LESS THAN 36" CLEAR BETWEEN HANDRAILS

OPENING BETWEEN TREADS MUST NOT PERMIT PASSAGE OF A SPHERE WITH A DIAMETER OF 4" PER SEC. 1011.5.3

HANDRAILS PER SEC. 1012

BOTH SIDES 34" - 38" ABOVE NOSING PER SEC. 1014.2
EXTENSIONS: PER 1014.6 - HANDRAILS SHALL RETURN TO A WALL, GUARD OR THE WALKING SURFACE OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
WHERE HANDRAILS ARE NOT CONTINUOUS BETWEEN FLIGHTS, THE HANDRAILS SHALL EXTEND HORIZONTALLY AT LEAST 12" BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR THE DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER.

GRIP SIZE: OUTSIDE DIAMETER OF 1 1/4" - 2" PER SEC. 1014.3

GUARDS PER SEC. 1013

LOCATION: ON OPEN SIDES OF STAIRWAYS AND LANDINGS
HEIGHT - 42" PER SEC 1015.3
SPACING - 4" MAX SPERE SPACING OF PICKETS PER SEC 1015.4

EXIT SIGNS

EXIT SIGNS NOT REQUIRED AT R-2 AND MAIN EXTERIOR EXITS - SEC. 1013.1
EXIT SIGNS PROVIDED AT STAIRS
EGRESS ILLUMINATION - 1 FOOTCANDLE - SEC. 1008.2.1
ILLUMINATION BACKUP POWER - 90 MINUTE MIN. - BATTERY BACKUP - UNIT EQUIPMENT OR ON-SITE GENERATOR @ DOORWAY DISCHARGE. SEC. 1008.3 - 1008.3.4

LIVE LOADS PER I.B.C. TABLE 1607.1

PRIVATE BALCONIES - 40# / S.F.
DWELLING UNITS - 40# / S. F.

WIND LOAD DESIGN PER SEC. 1609

3 SECOND GUST - 115 MPH

2015 IECC THERMAL ENVELOPE REQUIREMENTS

COMMERICAL REQ.
CLIMATE ZONE -
TABLE R402.1.2

ROOF - R-38

WALL ABOVE GRADE
WOOD FRAMED - R-19

FLOORS
JOIST/FRAMING - R-30

WINDOWS
U FACTOR = .35
FIXED FENESTRATION
OPERABLE FENESTRATION
ENTRANCE DOORS
SHGC = .25

SPRINKLER NOTES

SPRINKLER CONTRACTOR TO SUBMIT SPRINKLER PLANS & SPECIFICATIONS FOR REVIEW AND APPROVAL TO THE LOCAL FIRE MARSHAL'S OFFICE PRIOR TO FIRE PROTECTION SYSTEM INSTALLATION. SPRINKLER SYSTEM 13R MUST BE INSTALLED IN ACCORDANCE WITH NFPA STANDARD 25, THE EDITION, AND THE FIRE CODE BY A STATE LICENSED FIRE PROTECTION CONTRACTOR. THE ISSUANCE OF A BUILDING PERMIT DOES NOT IMPLY APPROVAL TO INSTALL FIRE SPRINKLER SYSTEM.

COMPLETE PLANS AND SPECIFICATIONS FOR FIRE ALARM SYSTEMS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL TO THE LOCAL FIRE MARSHAL'S OFFICE PRIOR TO SYSTEM INSTALLATION. FIRE ALARM SYSTEMS SHALL MEET THE APPROVAL OF THE LOCAL FIRE MARSHAL'S OFFICE AS TO INSTALLATION AND LOCATION AND SHALL BE SUBJECT TO SUCH PERIODIC TESTS. FIRE ALARM SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH NFPA STANDARD 72, THE EDITION, AND THE FIRE CODE. THE ISSUANCE OF A BUILDING PERMIT DOES NOT IMPLY APPROVAL TO INSTALL FIRE ALARM SYSTEM.

FIRE EXTINGUISHERS INSIDE OF EACH APARTMENT UNIT SHALL COMPLY WITH NFPA 10 AND WILL BE INSTALLED IN ACCORDANCE WITH IFC TABLE 906.3(1). FIRE EXTINGUISHERS INSTALLED OUTSIDE OF UNITS SHALL COMPLY WITH NFPA 10 AND INSTALLED ON EVERY LEVEL WITHIN 75 FEET OF TRAVEL DISTANCE OF EACH APARTMENT UNIT.

TRUSS NOTES

CONTRACTOR MUST HAVE THE TRUSS MANUFACTURER TO SUBMIT ALL TRUSS SHOP DRAWINGS (APPROVED BY DESIGN PROFESSIONAL(S)FOR ALL BUILDINGS BEFORE INSTALLATION. MUST BE SEALED AND SIGNED BY A PROFESSIONAL LICENSED ENGINEER PER APPLICABLE STATE.

MISCELLANEOUS NOTES

THE ADDRESS MUST BE CLEARLY VISIBLE FROM THE STREET. ADDRESS NUMBERS SHALL BE 8 INCHES IN HEIGHT AND OF A CONTRASTING COLOR TO THAT OF THE BACKGROUND, PER IFC SECTION 505 - PREMISES IDENTIFICATION.

TYPICAL ASSEMBLY NOTES
WALL & FLOOR/CEILING ASSEMBLIES

INTERIOR ROOF/CEILING ASSEMBLIES

SINGLE PLY MEMBRAN ROOF ON 23/32" CDX PLYWOOD OR 15/32" OSB ON PRE-ENGINEERED WOOD ROOF TRUSSES @ 24" O.C. WITH ONE LAYER OF 5/8" FIRE-RATED GYPSUM WALL BOARD APPLIED TO RESILIENT CHANNELS @ 16" O.C. ATTACHED DIRECTLY TO THE UNDERSIDE OF THE ROOF TRUSSES. THIS ONE HOUR CEILING ASSEMBLY IS APPROVED PER U.L. DESIGN P522.

EXTERIOR ROOF/CEILING ASSEMBLIES

SINGLE PLY MEMBRANE ROOF ON 23/32" CDX PLYWOOD OR 15/32" OSB ON PRE-ENGINEERED WOOD ROOF TRUSSES @ 24" O.C. WITH ONE LAYER OF 5/8" FIRE-RATED GYPSUM SOFFIT BOARD APPLIED TO RESILIENT CHANNELS @ 16" O.C. ATTACHED DIRECTLY TO THE UNDERSIDE OF THE ROOF TRUSSES. THIS ONE HOUR CEILING ASSEMBLY IS APPROVED PER U.L. DESIGN P522.

TYP. INTERIOR UNIT FLOOR/CEILING ASSEMBLY

3/4" GYPCRETE OVER 3/4" CDX PLYWOOD OR 23/32" OSB ON 18" PRE-ENGINEERED WOOD FLOOR TRUSSES AT 24" O.C. WITH ONE LAYER OF 5/8" FIRE-RATED GYPSUM WALL BOARD APPLIED TO RESILIENT CHANNELS @ 16" O.C. ATTACHED DIRECTLY TO THE UNDERSIDE OF THE TRUSS. THIS ONE-HOUR ASSEMBLY IS APPROVED PER U.L. DESIGN L521.

EXTERIOR FLOOR/CEILING ASSEMBLIES AT BALCONIES

1 1/2" HARDROCK CONCRETE ON 60 MIL. BITUTHENE MEMBRANE ON 3/4" CDX PLYWOOD OR 23/32" OSB ON PRE-ENGINEERED WOOD TRUSSES AT 24" O.C. WITH ONE LAYER OF 5/8" FIRE-RATED GYPSUM SOFFIT BOARD APPLIED TO RESILIENT CHANNELS @ 16" O.C. ATTACHED DIRECTLY TO THE UNDERSIDE OF TRUSS. ALUMINUM T-BARS TO BE PLACED AT EDGES WITH BITUTHENE PLACED UNDERNEATH. THIS ONE HOUR ASSEMBLY IS APPROVED PER U.L. DESIGN L528. RESILIENT CHANNEL NOT REQUIRED AT JOISTS 16" O.C.

EXTERIOR FLOOR/CEILING ASSEMBLIES AT BALCONIES

1 1/2" HARDROCK CONCRETE ON 60 MIL. BITUTHENE MEMBRANE ON 3/4" CDX PLYWOOD OR 23/32" OSB ON PRE-ENGINEERED WOOD TRUSSES AT 24" O.C. WITH ONE LAYER OF 5/8" FIRE-RATED GYPSUM SOFFIT BOARD APPLIED TO RESILIENT CHANNELS @ 16" O.C. ATTACHED DIRECTLY TO THE UNDERSIDE OF TRUSS. ALUMINUM T-BARS TO BE PLACED AT EDGES WITH BITUTHENE PLACED UNDERNEATH. THIS ONE HOUR ASSEMBLY IS APPROVED PER U.L. DESIGN L528. RESILIENT CHANNEL NOT REQUIRED AT JOISTS 16" O.C.

TENANT SEPARATION WALL

AN 8" WALL WITH 2 SEPARATE PLATES, 2 ROWS 2X4 STUDS AT 16" O.C. WITH R-11 BATT INSULATION AT BOTH SIDES AND WITH ONE LAYER OF 5/8" FIRE-RATED GYPSUM WALLBOARD ON ONE INTERIOR SIDE & 5/8" FIRE-RATED GYPSUM WALLBOARD ON THE OTHER INTERIOR SIDE. THIS ONE-HOUR ASSEMBLY IS APPROVED PER U.L. DESIGN U341.

PARTITION WALL

NON-RATED, NON-LOAD BEARING, 2X4 WOOD STUDS AT 16" O.C. WITH 5/8" FIRE-RATED GYPSUM WALLBOARD ON BOTH INTERIOR FACES. OPTIONAL INSULATE WITH R-11 BATT INSULATION (3 1/2" THICK AND HAVING A MINIMUM DENSITY OF .45 LB PER CUBIC FOOT). THIS ONE-HOUR ASSEMBLY IS SHOWN IN U.L. U305.

EXTERIOR WALL

STONE, STUCCO, OR FCB SIDING OVER 7/16" GYPSUM SHEATHING OR 15/32" OSB ON 2X6 WOOD STUDS (SPACING PER STRUCTURAL PLANS) AND R-19 INSULATION (3 1/2" THICK AND HAVING A MINIMUM DENSITY OF .45 LBS PER CUBIC FOOT) AND 5/8" FIRE-RATED GYPSUM WALLBOARD ON THE INTERIOR FACE. THIS ONE-HOUR ASSEMBLY IS APPROVED PER U.L. U356.

STAIR LANDINGS

1-1/2" HARDROCK @ CONCRETE ON 60 MIL. BITUTHENE MEMBRANE ON 23/32" CDX PLYWOOD OR 23/32" OSB ON 2X10 JOISTS @ 12" O.C. WITH 5/8" FIRE-RATED GYPSUM SOFFIT BOARD ATTACHED DIRECTLY TO THE UNDERSIDE OF JOIST. ALUMINUM T-BARS TO BE PLACED AT EDGES WITH BITUTHENE PLACED UNDERNEATH. THIS IS A ONE HOUR ASSEMBLY APPROVED PER U.L. DESIGN L528.

UNIT-TO-BREEZEWAY WALL ASSEMBLIES

CEMENTITIOUS LAP SIDING OVER 5/8" FIRE-RATED GYPSUM BOARD ON STAGGERED 2X4 WOOD STUDS (SPACING PER STRUCTUAL PLANS) WITH 2X6 TOP AND BOTTOM PLATES. R-23 3-1/2" THICK. MINIMUM DENSITY OF .45 LBS/CUBIC FT) FULLY BLOWN INSULATION THROUGH STAGGERED STUDS, WITH 5/8" FIRE-RATED GYPSUM BOARD ALSO ON THE INTERIOR FACE (UNIT SIDE). THIS ONE HOUR ASSEMBLY IS APPROVED PER U.L. U340 AND HAS A STC RATING OF 50.

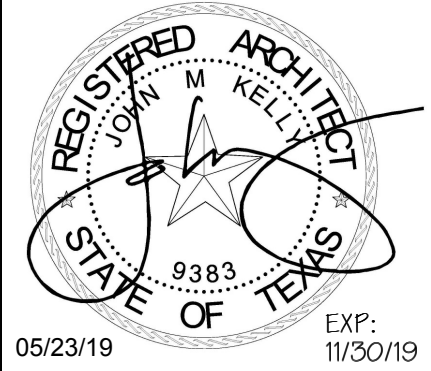
DEFERRED SUBMITTAL

THE FOLLOWING PRE-MANUFACTURED SYSTEMS HAVE BEEN SHOWN ON THESE DRAWINGS AND DELEGATED TO THE CONTRACTOR TO PROVIDE. DESIGN SHALL BE SUBMITTED AND REVIEWED BY THE DESIGN GROUP AND AUTHORITY HAVING JURISDICTION FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS AND CODE. SUBMITTALS SHALL BE SEALED BY A REGISTERED ENGINEER IN THE APPLICABLE STATE.

TYPICAL DELEGATED DESIGN SERVICES ARE AS FOLLOWS:

- A. WOOD FLOOR AND ROOF TRUSSES
- B. STEEL STAIRS
- C. STEEL HANDRAILS AND GUARDRAILS
- D. METAL CANOPIES
- E. METAL CARPORTS
- F. FIRE SPRINKLER SYSTEMS DESIGN
- G. FIRE ALARM SYSTEM DESIGN
- H. SITE RETAINING WALLS
- I. SWIMMING POOLS

DRAWN BY:	DPF, MAR
CHECKED BY:	JMK
PROJECT #:	18-2325



LDG DEVELOPEMENT

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ARCHITECTURE • LAND PLANNING • LANDSCAPE DESIGN • CONSTRUCTION ADMINISTRATION •

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MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

No.	Revision	Date
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A1.1		

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. L512

May 02, 2019

Unrestrained Assembly Rating — 1 Hr.

Finish Rating — 21 Min. or (16 Min. See Item 5A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide **BXUV** or **BXUV7**

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

ELASTIZELL CORP OF AMERICA — Type FF

System No. 5

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier-(Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.2 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

AERIX INDUSTRIES — Floor Topping Mixture

System No. 6

Deleted.

System No. 7

Subflooring — Min 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

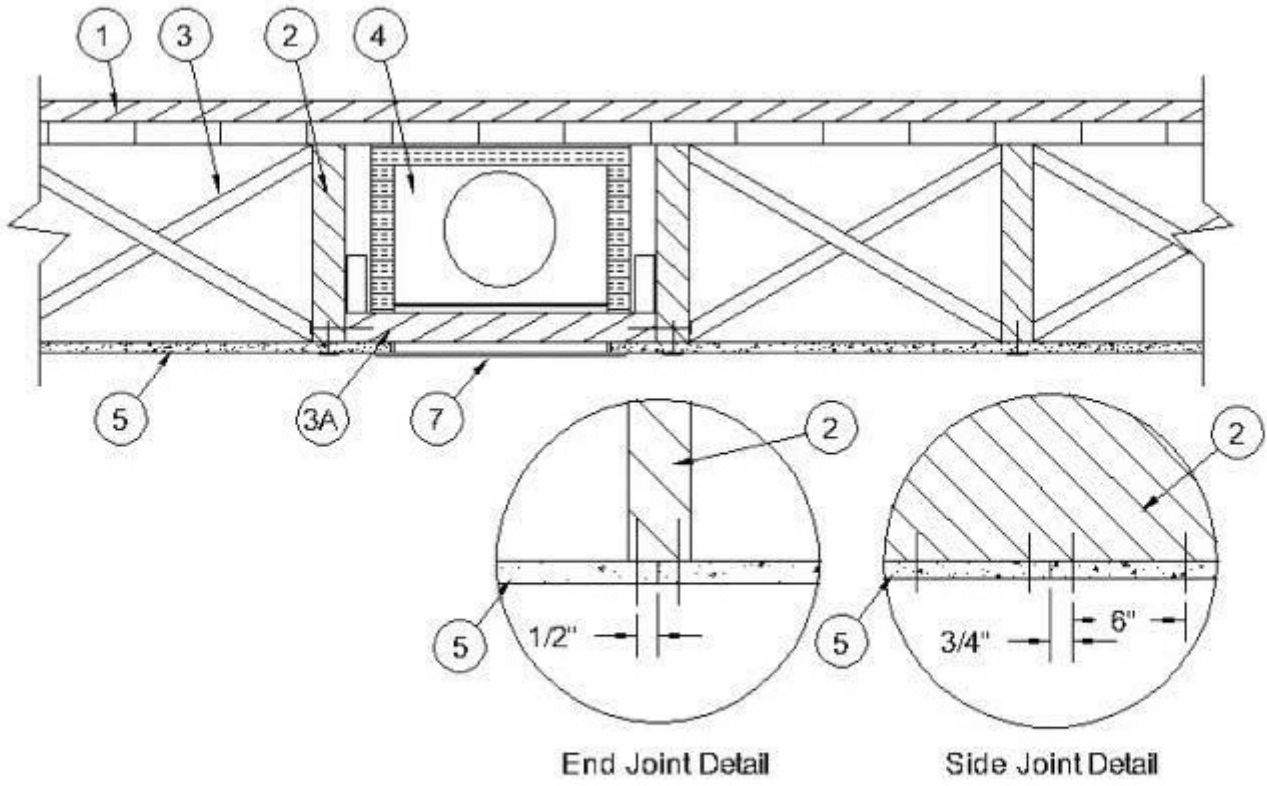
Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Mixture shall consist of 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand.

ULTRA QUIET FLOORS — UQF-A, UQF-Super Blend, UQF-Plus 2000

System No. 8

Subflooring — Min 15/32 in. wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.



1. Flooring Systems — The flooring system shall consist of one of the following:

System No. 1

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Min 1 by 3 in. T & G and end matched laid perpendicular to joists, or 19/32 in. plywood, min grade "Underlayment". Face grain of plywood to be perpendicular to joists with joints staggered.

System No. 2

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1300 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

Vapor Barrier — (Optional) — Nom 0.030 in thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

MAXXON CORP — Type D-C, GC, GC2000, L-R, T-F, CT, SS

RAPID FLOOR SYSTEMS — Type RF, RFP, RFU, Ortecrete

Floor Mat Materials* — (Optional) —Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

MAXXON CORP — Type Acousti-Mat 1/8, Acousti-Mat 1/4, Acousti-Mat 1/4 Premium, Acousti-Mat 3/8, Acousti-Mat 3/8 Premium, Acousti-Mat 3/4, Acousti-Mat 3/4 Premium, Acousti-Top.

Floor Mat Reinforcement — (Optional) Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath (Optional) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material.

System No. 9

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

FORMULATED MATERIALS LLC — Types FR-25, FR-30, and SiteMix

UNITED STATES GYPSUM CO — Levelrock SLC

Alternate Floor Mat Material* — (Optional) Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

FORMULATED MATERIALS LLC — Types M1, M2, M3, Elite, Duo, R1, and R2

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* — (Optional) — Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under **Floor Topping Mixture**.
GRASSWORX L L C — Type SC50

System No. 3

Subflooring — Min 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture.

ECORE INTERNATIONAL INC — Type QTscu 4002

HACKER INDUSTRIES INC — Type Hacker Sound-Mat

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.

ECORE INTERNATIONAL INC — Type QTrbm 3006-3

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II.

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 125

System No. 10

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Finish Floor — Mineral and Fiber Board* — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.

HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 11

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ACG MATERIALS — Accu-Crete ® types NexGen, Green, Prime, B, M, and PrePour, AccuRadiant, AccuLevel types G40, G50 and SD30.

UNITED STATES GYPSUM CO — Levelrock SLC

Alternate Floor Mat Material* — (Optional) - Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in. or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively.

ACG MATERIALS — AccuQuiet types P80, C40, D13, D-18, D25, DX38, EM.125, EM.125S, EM.250, EM.250S, EM.375, EM.375S, EM.750, and EM.750S.

System No. 12

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Qurl 55/025

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 400, Quiet Qurl 60/040

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750, Quiet Qurl 65/075

Metal Lath (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

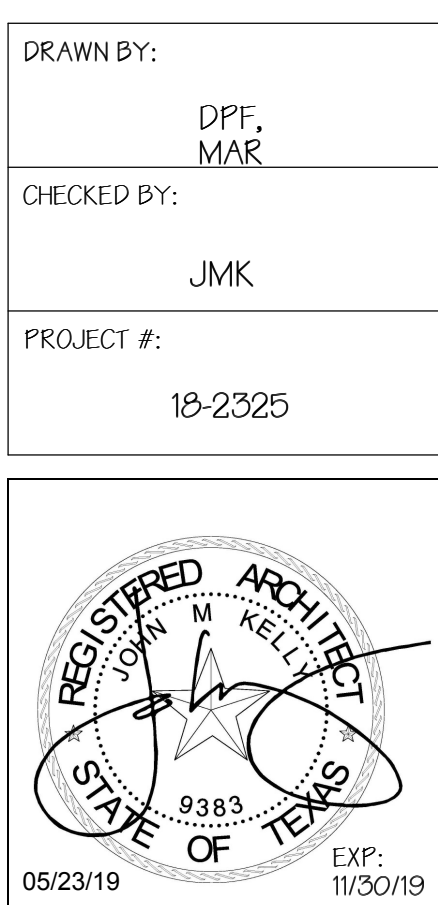
HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant

System No. 4

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

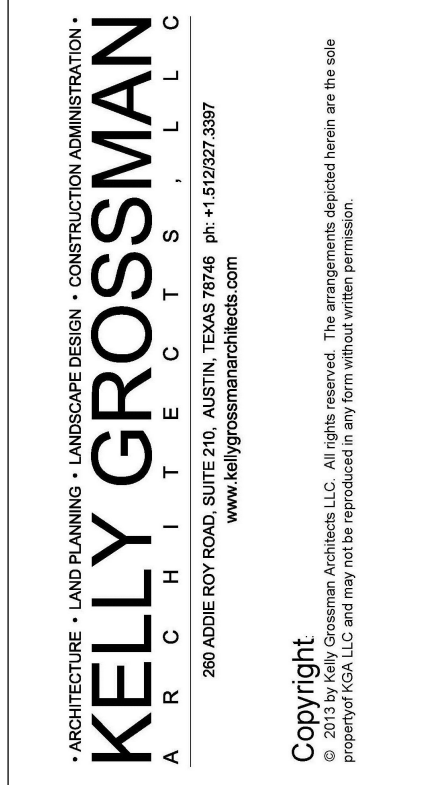
Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

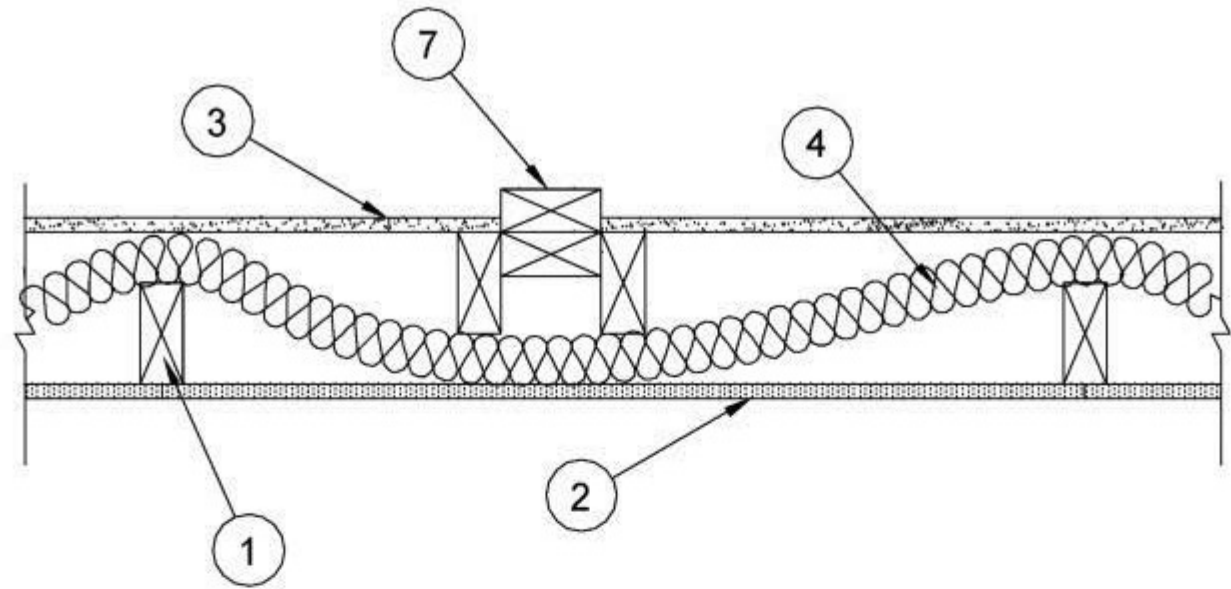


LDG DEVELOPEMENT

1469 SOUTH FOURTH STREET, LOUISVILLE, KY 40208, (P) 502.609.4940



No.	Revision	Date
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ISSUED FOR PERMIT		
06-10-2019		
ISSUED FOR BID		
ISSUED FOR CONSTRUCTION		
DWG NAME		
DATE		
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DESCRIPTION		
UL DETAILS		
SHEET		
A1.2		



HORIZONTAL SECTION

1. **Wood Studs** — Nom 2 by 4 in. alternating on opposite sides of nom 2 by 6 in. wood plates. Spaced 24 in. OC max on each side of wood plates, staggered 12 in. OC (or staggered equally if less than 24 in. OC) on opposite side.

2. **Gypsum Board*** — 5/8 in. thick gypsum board, paper or vinyl faced with beveled, square, tapered or rounded edges. Gypsum board nailed to each stud 7 in. OC with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 bugle head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement coated nails. When used in widths other than 48 in., gypsum board to be installed horizontally. When **Steel Framing Members*** (Item 5-5D) are used, gypsum board attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

AMERICAN GYPSUM CO — Types AG-C.

CERTAINTEED GYPSUM INC — Type FRPC (Finish rating 20 min), Type C.

CGC INC — Types C, IP-X2 (Finish rating 26 min).

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A.

GEORGIA-PACIFIC GYPSUM L L C — Types 5 (Finish rating 26 min), DAPC, TG-C.

NATIONAL GYPSUM CO — Types FSK-C, FSW-C, FSW-G.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C or PG-C.

THAI GYPSUM PRODUCTS PCL — Type C.

UNITED STATES GYPSUM CO — Types C, IP-X2 (Finish rating 26 min).

2A. **Gypsum Board*** — (As an alternate to Item 2) — Nominal 5/8 in. thick, 4 ft. wide panels, applied vertically to studs and bearing plates on one side of the assembly with 1-5/8 in. long Type S screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Horizontal joints of vertically applied panels need not be backed by studs. Panel joints covered with paper tape and two layers of joint compound. Screwheads covered with two layers of joint compound. Batts and Blankets placed in stud cavity as described in Item 4B. Not evaluated for use with Steel Framing Members, Furring Channels or Fiber, Sprayed. **PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Type QuietRock 530 (finish rating 23 min).

2B. **Gypsum Board*** — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally. **AMERICAN GYPSUM CO** — Types AGX-1, M-Glass or AG-C, LightRoc

NATIONAL GYPSUM CO — Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-G, Type FSK-C, Type FSW-C, Type FSMR-C, Type FSW-6, Type FSL

2C. **Gypsum Board*** — (As an alternate to Item 2) — Nominal 5/8 in. thick, 4 ft. wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Horizontal joints of vertically applied panels to be backed by studs. **PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Type QuietRock ES.

2D. **Wall and Partition Facings and Accessories*** — (As an alternate to Item 2) — Nominal 5/8 in. thick, 4 ft. wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Horizontal joints of vertically applied panels to be backed by studs.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

2E. **Gypsum Board*** — (As an alternate to Item 2) — Any 5/8 in. thick **UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305** — Nom. 5/8 in. thick gypsum board, paper or vinyl faced with beveled, square, tapered or rounded edges. Gypsum board nailed to each stud 7 in. OC with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 bugle head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement coated nails. When used in widths other than 48 in., gypsum board to be installed horizontally. Batts and Blankets placed in stud cavity as described in Item 4B.

When **Steel Framing Members*** (Item 5) are used, gypsum board attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

ACADIA DRYWALL SUPPLIES LTD (View Classification) — CKNX.R25370

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

2F. **Gypsum Board*** — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally. **CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C** — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3. **Joints and Nailheads** — Gypsum board joints covered with tape and joint compound. Nail heads covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to entire surface of Classified veneer baseboard. Joints reinforced.

4. **Batts and Blankets*** — (Optional) — Any thickness glass or mineral fiber batt insulation friction-fit into stud cavities.

See **Batts and Blankets** (BZJZ) category for list of Classified companies.

4A. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product. When Item 5, 5A, 5B, 5C or 5D is used, Fiber, Sprayed shall be INS735, INS745, INS765LD or INS770LD. **U S GREENFIBER L L C** — INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.

4B. **Batts and Blankets*** — (Required for use with Wall and Partition Facings and Accessories, Item 2A and Gypsum Board Item 2E) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See **Batts and Blankets** Category (BKNV) for names of manufacturers.

4C. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs./ft³. **INTERNATIONAL CELLULOSE CORP** — Celbar-RL

4D. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 4) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³. **APPLEGATE HOLDINGS L L C** — Type 1 SAFE Applegate Fired Rated Material

5. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

A. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item B. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

B. **Steel Framing Members*** — Used to attach furring channels (Item A) to studs (Item 1). Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. **PAC INTERNATIONAL L L C** — Types RSIC-1, RSIC-1 (2.75).

5A. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

A. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

B. **Steel Framing Members*** — Used to attach furring channels (Item A) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. **PLITEQ INC** — Type Genie Clip

5B. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

A. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.

B. **Steel Framing Members*** — Used to attach furring channels (Item 5BA) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. **STUDCO BUILDING SYSTEMS** — RESILMOUNT Sound Isolation Clips - Type A237R

5C. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

A. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 5Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.

B. **Steel Framing Members*** — Used to attach furring channels (Item 5Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

REGUPOL AMERICA — Type SonusClip

5D. **Steel Framing Members*** — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below:

a. **Resilient Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 2.

b. **Steel Framing Members*** — Used to attach resilient channels (Item 5Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. **KEENE BUILDING PRODUCTS CO INC** — Type RC+ Assurance Clip

6. **Furring Channel** — Optional — Not Shown — For use on one side of the wall with Item 2B - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws.

7. **Non-Bearing Wall Partition Intersection** — (Optional) — Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

8. **Wall and Partition Facings and Accessories*** — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft. wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. **PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Type QuietRock QR-500 and QR-510

9. **Mineral and Fiber Board*** — (Optional, Not Shown) — For use with Items 9A-9D — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft. wide with long dimension parallel and centered over studs. Attached to studs and top and bottom bearing plates with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer (Item 9D) is to be installed over the Mineral and Fiber Boards. Glass Fiber Insulation, Item 9A, or Batts and Blankets, Item 9B, and Adhesive, Item 9C, are required. **HOMASOTE CO** — Homasote Type 440-32

9A. **Glass Fiber Insulation*** — (For use with Item 9) 5-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to completely fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.

9B. **Batts and Blankets*** — (As an alternate to Item 9A, For use with Item 9), 5-1/2 in. thick mineral wool batts, placed to completely fill interior of wall. **THERMAFIBER INC** — Type SAFB, SAFB FF

9C. **Adhesive** — (For use with Item 9) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 9).

9D. **Gypsum Board*** — (For use with Item 9) — 5/8 in. thick, 4 ft. wide, applied vertically over Mineral and Fiber Board (Item 9) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 9). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min. **AMERICAN GYPSUM CO** — Type AG-C

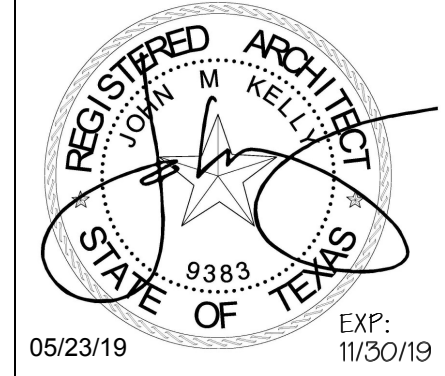
CERTAINTEED GYPSUM INC — FRPC, Type C

CGC INC — Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

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MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

No.	Revision	Date
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NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2019-04-15

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- Authorities Having Jurisdiction should be consulted before construction.
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- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. L521

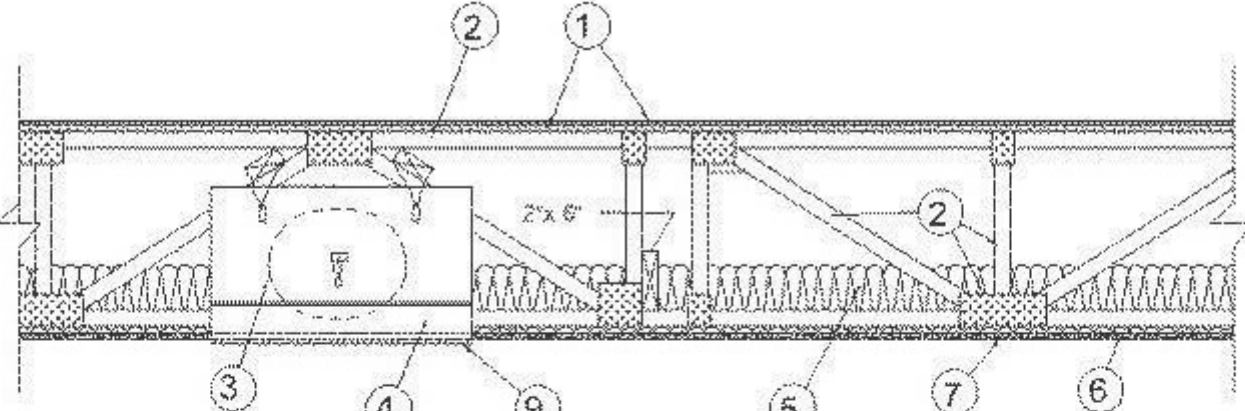
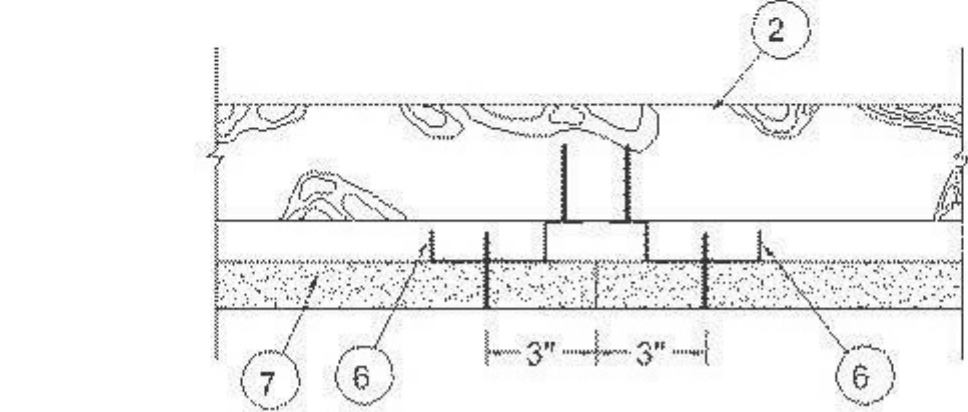
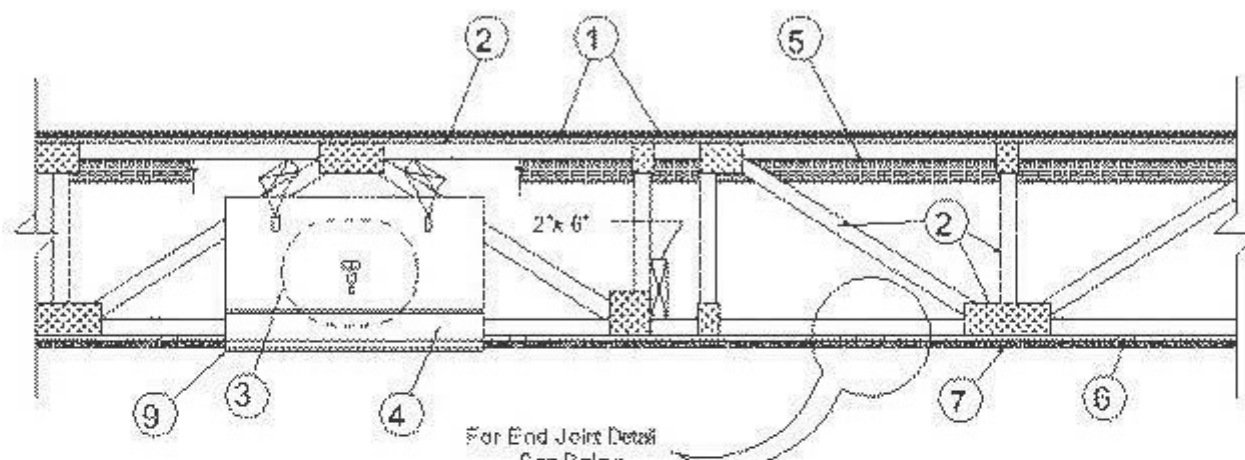
April 16, 2019

Unrestrained Assembly Rating — 1 Hr

Finish Rating — 25 Min (See Items 5 and 5A), 20 Min (See Items 6H and 7A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide **BXUV7**

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



Alternate Insulation Placement

1. **Flooring System** — The flooring system shall consist of one of the following:

System No. 1

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Floor — Min 1 by 4 in. T & G lumber installed perpendicular to trusses, or min 15/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

System No. 2

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring* — **Floor Topping Mixture** — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

LATICRETE SUPERCAP L L C — Types LRK, HSLRK

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* — (Optional) — Nom 3/8 in. thick floor mat material loose laid over the subfloor.
GRASSWORX L L C — Type SC50

System No. 3 (For Use with Item 7A Only)

Finish Floor — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and 2-1/2 in. long nails, spaced 12 in. OC along each truss and 8 in. OC at the perimeter.

System No. 4

Structural Cement-Fiber Units* — Nom 3/4 in. thick, with long edges tongue and grooved. Long dimension of panels to be perpendicular to wood trusses with end joints staggered a min of 2 ft and centered over the trusses. Panels secured to wood trusses with 1-5/8 in. long, No. 8, self-countersinking wood screw spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the end edges of the panel.

UNITED STATES GYPSUM CO — Types STRUCTO-CRETE, USGSP

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

LATICRETE SUPERCAP L L C — Types LRK, HSLRK

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

System No. 5

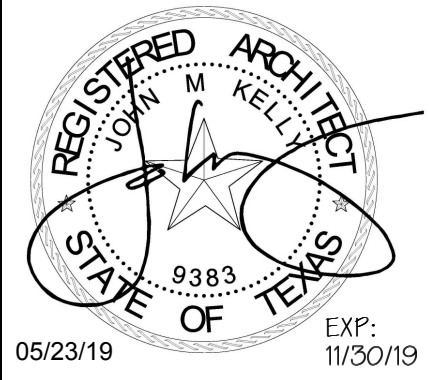
Structural Cement-Fiber Units* — Nom 3/4 in. thick, with long edges tongue and grooved. Long dimension of panels to be perpendicular to wood trusses with end joints staggered a min of 2 ft and centered over the trusses. Panels secured to wood trusses with 1-5/8 in. long, No. 8, self-countersinking wood screw spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the end edges of the panel.

UNITED STATES GYPSUM CO — Types STRUCTO-CRETE, USGSP

System No. 6

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with

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SHEET		
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construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. **Vapor Barrier** — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt. **Floor Mat Materials*** — (Optional) — Floor mat material nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm). **HACKER INDUSTRIES INC** — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm). **HACKER INDUSTRIES INC** — Type FIRM-FILL SCM 250

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm) **HACKER INDUSTRIES INC** — FIRM-FILL SCM 400

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm). **HACKER INDUSTRIES INC** — Type FIRM-FILL SCM 750

Metal Lath (Optional) — (Optional) — For use with 3/8 in. (10 mm), or greater, floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1 in. (25 mm) over the floor mat. **Finish Flooring — Floor Topping Mixture*** — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand. **HACKER INDUSTRIES INC** — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Gyp-Span Radiant

System No. 7

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. **Vapor Barrier** — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt. **Finish Floor*** — **Mineral and Fiber Board** — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. **HOMASOTE CO** — Type 440-32 Mineral and Fiber Board

System No. 8

Subflooring —Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier —(Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of floor-topping mixture. Floor topping thickness a min 1 in. over the floor mat.

ECORE INTERNATIONAL INC — Type QTscu 4002

HACKER INDUSTRIES INC — Type Hacker Sound-Mat

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.

ECORE INTERNATIONAL INC — Type QTrbm 3006-3

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II

Metal Lath (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill High Strength, Gyp-Span Radiant

2. **Trusses** — Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Min truss depth is 12 in. when no **Ceiling Damper*** is used and 18 in. when a **Ceiling Damper*** is

used. Truss members secured together with min 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx. 7/8 in. centers with four rows of teeth per inch of plate width.

3. **Air Duct*** — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

4. **Ceiling Damper*** — For use with min 18 in. deep trusses. Max nom area shall be 324 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 14 in. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions. **C&S AIR PRODUCTS** — Model RD-521

POTTORFF — Model CFD-521

4A. **Alternate Ceiling Damper*** — For use with min 18 in. deep trusses. Max nom area shall be 196 sq in. with the length not to exceed 26 in. and the width not to exceed 14 in. Max height of damper shall be 7 in. Aggregate damper openings shall not exceed 98 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) not to exceed 144 in.² shall be installed in accordance with installation instructions. **C&S AIR PRODUCTS** — Model RD-521-BT

POTTORFF — Model CFD-521-BT

4B. **Alternate Ceiling Damper*** — For use with min 18 in. deep trusses. Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions. **C&S AIR PRODUCTS** — Models RD-521-IP, RD-521-NP

POTTORFF — Models CFD-521-IP, CFD-521-NP

4C. **Alternate Ceiling Damper*** — For use with min 18 in. deep trusses. Max nom area shall be 144 sq in. with the length not to exceed 14 in. and the width not to exceed 12 in. Max height of damper shall be 17-7/8 in. Aggregate damper openings shall not exceed 74 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions. **C&S AIR PRODUCTS** — Models RD-521-90, RD-521-NP90

POTTORFF — Models CFD-521-90, CFD-521-90NP

4D. **Alternate Ceiling Damper*** — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions. **DELTA ELECTRONICS INC** — Models CRD2, GBR-CRD, ITG-CRD

4E. **Alternate Ceiling Damper*** — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 9-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions. **DELTA ELECTRONICS INC** — Model SIG-CRD

4F. **Alternate Ceiling Damper*** — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 131 sq in. with the length not to exceed 11-1/16 in. and the width not to exceed 11-7/8 in. Aggregate damper openings shall not exceed 66 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions. **DELTA ELECTRONICS INC** — Model SMT-CRD

4G. **Alternate Ceiling Damper*** — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall

not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions. **PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA** — Model PC-RD05C5

4H. **Alternate Ceiling Damper*** — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions. **BROAN-NUTONE L L C** — Model RDFUWVT

4I. **Alternate Ceiling Damper*** — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille (Item 9) shall be installed in accordance with installation instructions. **BROAN-NUTONE L L C** — Models RDJ1 and RDH

4J. **Alternate Ceiling Damper*** — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions. **BROAN-NUTONE L L C** — Model RDMWVT

4K. **Alternate Ceiling Damper*** — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 9) shall be installed in accordance with installation instructions. **BROAN-NUTONE L L C** — Model RDMWT2

5. **Batts and Blankets*** — (Optional) — Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. When the resilient channels (Item 6) or furring channels (Item 6A) are spaced 24 in. OC, no insulation shall be installed in the concealed space. When the resilient channels (Item 6) or furring channels (Item 6A) are spaced 16 in. OC, the insulation shall be a max of 3-1/2 in. thick, and shall be secured against the subflooring with staples at 12 in. OC or held suspended in the concealed space with 0.090 in. diam galv steel wires attached to the wood trusses at 12 in. OC. When the resilient channels (Item 6) or furring channels (Item 6A) are spaced a max of 12 in. OC or when the Steel Framing Members (Item 6B) are used, there is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the resilient or furring channels (or Steel Framing Members) and gypsum panel membrane. When **Steel Framing Members** (Item 6C) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6Ca) and gypsum board ceiling membrane, and friction-fitted between trusses and Steel Framing Members (Item 6Cd). The finished rating has only been determined when the insulation is secured to the subflooring.

5A. **Fiber, Sprayed*** — (Dry Dense Packed 100% Borate Formulation) — (Optional) — As an alternate to Item 5. When used, the resilient channel and gypsum board attachment is modified as specified in Items 6 and 7 and wire mesh (Item 10) shall be attached to the furring channels to facilitate installation of the material. The finished rating when Fiber, Sprayed is used has not been determined. The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product. When Item 5A (Fiber, Sprayed) is used, two layers of gypsum board required as described in Item 7. Not evaluated for use with Item 6B, 6C, 6D, 6E, 6F, 6G, 6H or 6I. **U S GREENFIBER L L C** — INS735, INS745, INS765LD & INS77OLD to be used with dry application only

5B. **Fiber, Sprayed*** — (Loose Fill 100% Borate Formulation) — (Optional) — As an alternate to Items 5 and 5A, The finished rating when Fiber, Sprayed is used has not been determined. The fiber is applied without water or adhesive at a minimum dry density of 0.5 lb/ft³ and at a max thickness of 3-1/2 in., in accordance with the application instructions supplied with the product. Wire mesh (Item 10) shall be attached to the furring channels to facilitate installation of the material. When Item 5B (Fiber, Sprayed) is used, two layers of gypsum board required as described in Item 7. Not evaluated for use with Item 6B, 6C, 6D, 6E, 6F, 6G, 6H or 6I. **U S GREENFIBER L L C** — INS735, INS745, INS765LD & INS77OLD to be used with dry application only

5C. **Foamed Plastic*** — (As alternate to Item 5, 5A, or 5B, Not Shown) — Spray foam insulation applied directly to the underside of the plywood subflooring. Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft³ density. Spray foam insulation is limited to use with minimum 18 in. deep trusses (Item 2). When spray foam insulation is installed, resilient channels (Item 6) shall be

installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 4 through 4H) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 5 through 5B, or 6A through 6I. **SES FOAM INC** — Sucraseal

5D. **Cavity Insulation - Batts and Blankets* or Fiber, Sprayed*** — (As described above in Items 5 through 5B) — (For Use with Item 7A, Not Shown) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6H)/gypsum board (Item 7A) ceiling membrane.

5E. **Foamed Plastic*** — (As alternate to Item 5, 5A, or 5C, Not Shown) — Spray foam insulation applied directly to the underside of the plywood subflooring. Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft³ or 2.0 lb/ft³ density, depending on the product installed. Spray foam insulation is limited to use with minimum 18 in. deep trusses (Item 2). When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 4 through 4H) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 5 through 5B, or 6A through 6I. **BASF CORP** — Enerlite® NM, Enerlite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, and Walltite® HP+

6. **Resilient Channels** — Formed from min 25 MSG galv steel installed perpendicular to trusses. When there is no insulation installed in the concealed space the resilient channels are spaced 24 in. OC. When insulation (Item 5) is secured to the underside of the subfloor the resilient channels are spaced 16 in. OC. When insulation, Items 5, 5A or 5B is applied over the resilient channel/gypsum panel ceiling membrane, or when Item 5C or 5E is applied to underside of subflooring, the resilient channels are spaced 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint as shown in the above illustration. Additional channels shall extend min 6 in. beyond each side edge of panel.

6A. **Steel Framing Members*** — (Not Shown) — As an alternate to Item 6.

a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members. When insulation, Items 5, 5A or 5B is applied over the furring channel/gypsum panel ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galv steel wire near each end of overlap.

b. **Steel Framing Members*** — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7. When **Fiber, Sprayed** (Item 5B) is used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board shall be installed as described in Item 7. **PAC INTERNATIONAL L L C** — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

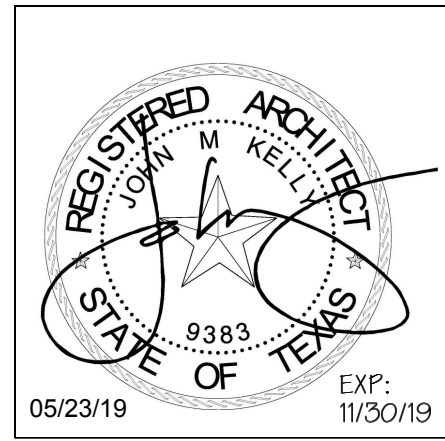
6B. **Steel Framing Members** — (Not Shown) — As an alternate to Item 6, main runners, cross tees, cross channels and wall angle as listed below.

a. **Main Runners** — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Hanger wires to be located adjacent to main runner/cross tee intersections. Hanger wires wrapped and twist-tied on 16d nails driven in to side of trusses at least 5 in. above the bottom face.

b. **Cross Tees or Channels** — Nom 4 ft long cross tees, with 15/16 in. or 1-1/2 in. wide face, or nom 4 ft long cross channels, with 1-1/2 in. wide face, either spaced 16 in. OC, installed perpendicular to the main runners. Additional cross tees or channels used 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. **Wall Angle or Channel** — Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at

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CHECKED BY:	JMK
PROJECT #:	18-2325



LDG DEVELOPEMENT

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No.	Revision	Date
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- 5/13/2019
- L521 - BXUV.L521 - UL Product Spec
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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5/13/2019

L528 - BXUV.L528 - UL Product Spec

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. L528

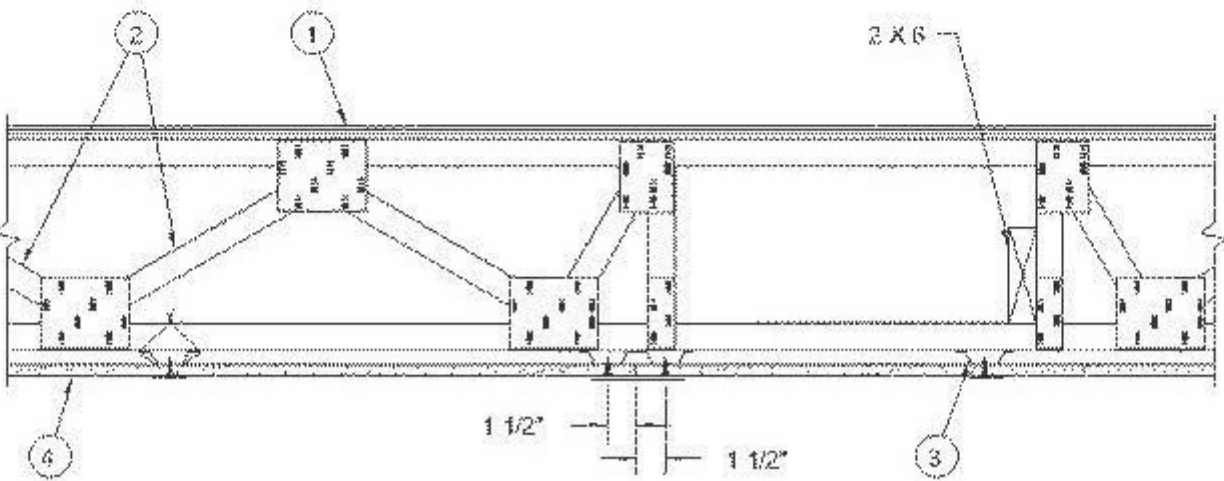
May 03, 2019

Unrestrained Assembly Rating - 1 Hr.

Finish Rating - 22 Min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide **BXUV** or **BXUV7**

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

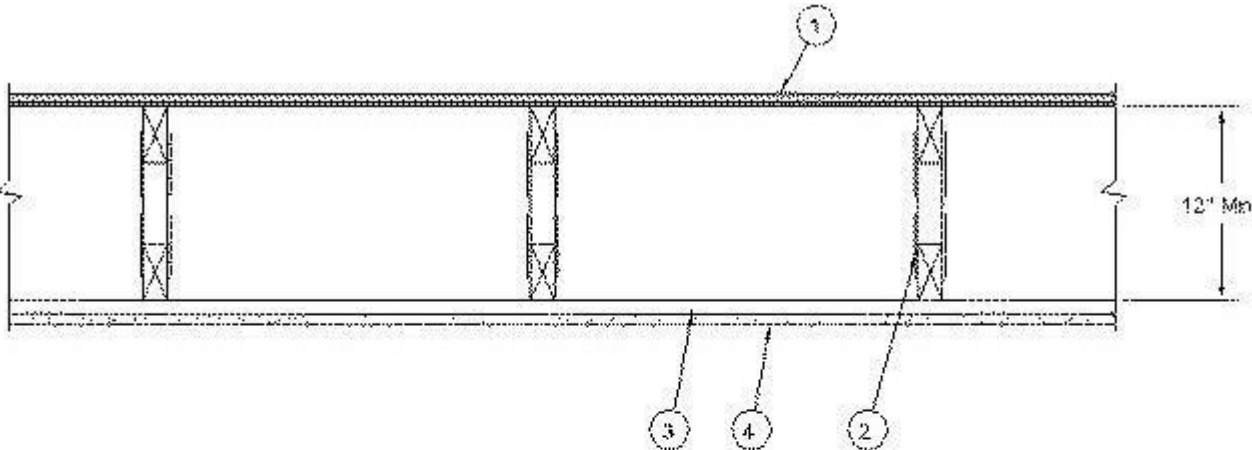
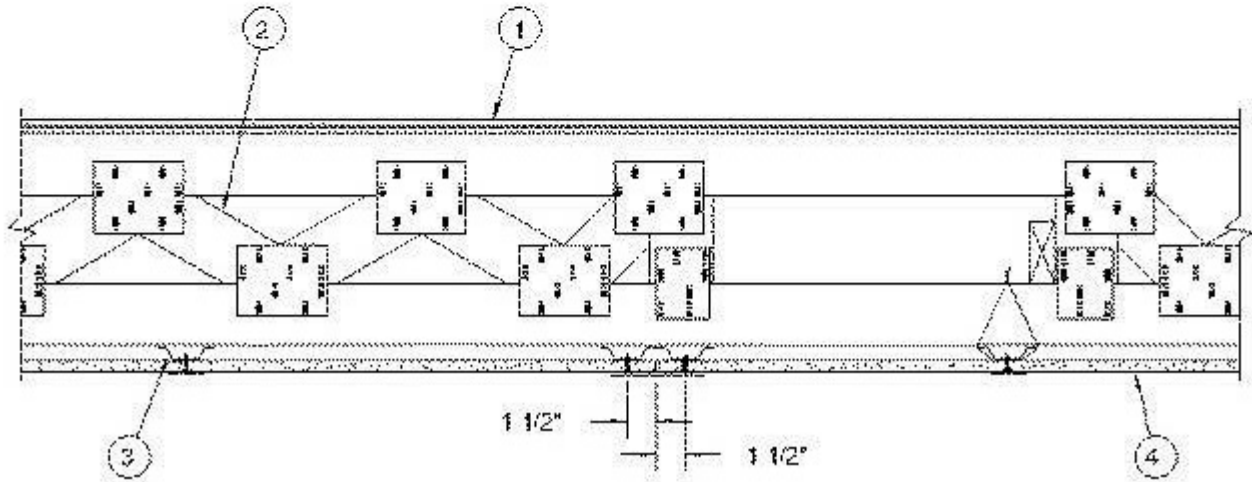
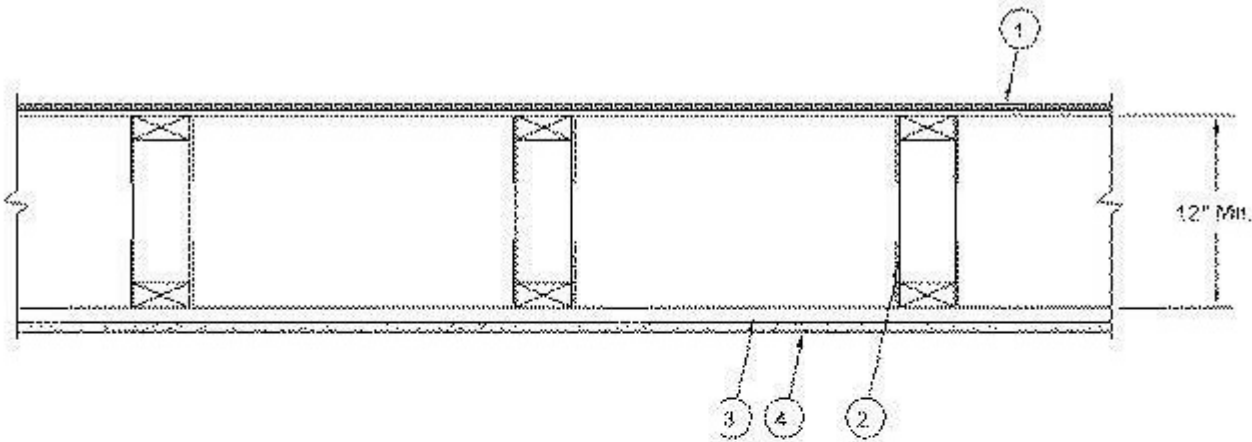


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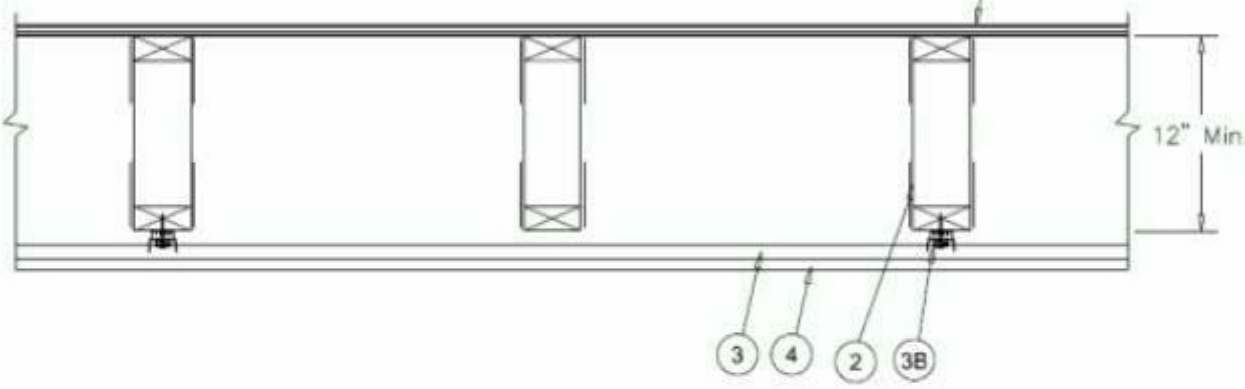
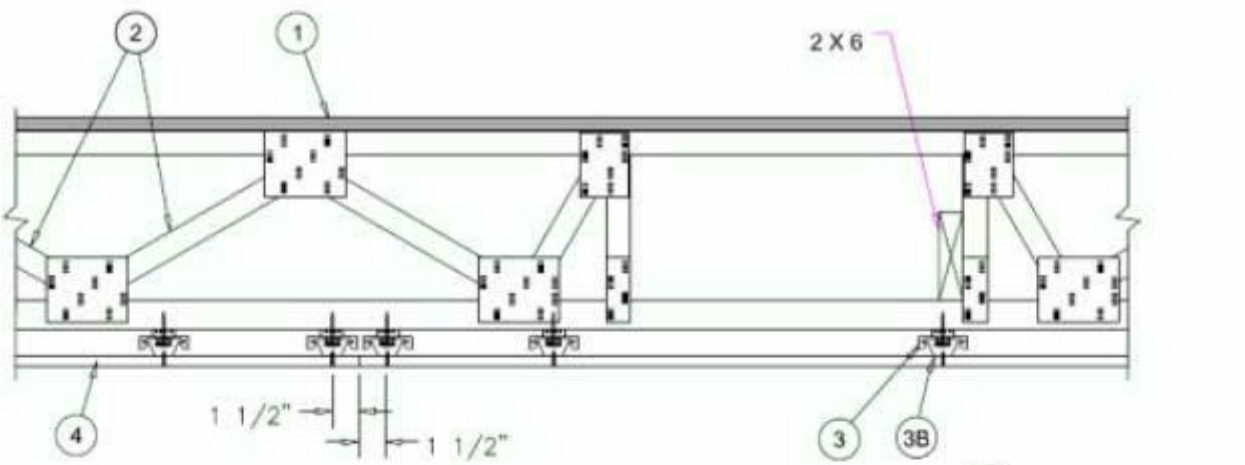
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1. **Flooring System** — The flooring system shall consist of one of the following:

System No. 1

Subflooring — Min 23/32 in. thick T & G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. TetraGRIP™ nails measuring 2-3/8 in. long, 0.113 in. diameter, 0.272 in. round head, and helically threaded shank with barbed features on the helix meeting ASTM F1667 and having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

System No. 2

Subflooring — Min 23/32 in. thick T & G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. TetraGRIP™ nails measuring 2-3/8 in. long, 0.113 in. diameter, 0.272 in. round head, and helically threaded shank with barbed features on the helix meeting ASTM F1667 and having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

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Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Min 3/4 in. thickness of lightweight insulating concrete with **Perlite Aggregate*** or **Vermiculite Aggregate***, or gypsum concrete.

See **Perlite Aggregate** (CFFX) and **Vermiculite Aggregate** (CJZZ) categories for names of manufacturers.

System No. 3

Subflooring — Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with joints staggered.

Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.

Floor Mat Materials* — (Optional)— Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture.

ECORE INTERNATIONAL INC — Type QTscu 4002

HACKER INDUSTRIES INC — Type Hacker Sound-Mat.

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.

ECORE INTERNATIONAL INC — Type QTbrm 3006-3

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II.

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm)

productspec.ul.com/document.php?id=BXUV.L528

4/30

DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

LDG DEVELOPEMENT

1469 SOUTH FOURTH STREET, LOUISVILLE, KY 40208, (P) 502.609.4940

ARCHITECTURE • LAND PLANNING • LANDSCAPE DESIGN • CONSTRUCTION ADMINISTRATION •
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A R C H I T E C T S . L L C
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MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

No.	Revision	Date
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ISSUED FOR PERMIT		
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Floor Mat Materials* — (Optional) — Nom 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

PLITEQ INC — Type GenieMat FF10

Floor Mat Materials* — (Optional) — Nom 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

PLITEQ INC — Type GenieMat FF17

Floor Mat Materials* — (Optional) — Nom 1 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

PLITEQ INC — Type GenieMat FF25

System No. 17

Subflooring — Nom. 1-1/2 in. thick T & G laminated composite plywood sub-floor panels to be perpendicular to the trusses with end joints staggered 4 ft. End joints centered over top chord of trusses. Subfloor panels secured to trusses with construction adhesive and #8 by 3 in. wood screws spaced 12 in. OC in the field and 6 in. OC at the end joints.
RSP INDUSTRIES INC — SAP board

System No. 18

Subflooring — Min 15/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss.

Wall and Partition Facings and Accessories* - Sound Barrier (Optional) — Acoustic Sleeper pads stapled to the top of the subfloor and centered over wood trusses. Acoustic Sleeper pads are to be spaced appropriately so that the finish floor panels are fastened through Acoustic Sleeper pads to the trusses.
STC ARCHITECTURAL PRODUCTS L L C DBA STC SOUND CONTROL — Acoustic Sleeper

Finish Floor — Min 23/32 in. thick T & G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Butt joints of panels have the option of being sealed with any UL Classified caulk or sealant found under - Fill, Void or Cavity Materials* (XHWW).

a. **Main Runners** — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft. OC. Main runners suspended by min 12 SWG galv. steel hanger wires spaced 48 in. OC. Hanger wires to be located adjacent to main runner/cross tee intersections. Hanger wires wrapped and twist-tied on 16d nails driven in to side of trusses at least 5 in. above the bottom face.

b. **Cross Tees or Channels** — Nom 4 ft long cross tees, with 15/16 in. or 1-1/2 in. wide face, or nom 4 ft long cross channels, with 1-1/2 in. wide face, spaced 16 in. OC, installed perpendicular to the main runners. Additional cross tees or channels used 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. **Wall Angle or Channel** — Painted or galv. steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum panel.
USG INTERIORS LLC — Type DGL or RX

3J. **Steel Framing Members*** — (Optional, Not Shown) — Used to attach resilient channels (Item 3A) to trusses (Item 2). Clips spaced 48 in. OC on adjacent trusses, and secured to trusses with one No. 8 x 2-1/2 in. coarse drywall screw through center grommet hole. Channels secured to clips with one #10 x 1/2 in. pan-head self-drilling screw. Ends of adjoining channels overlapped 6 in. and secured together with two #8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board butt joints require additional resilient channels spaced 1-1/2 in. from the butt joint on either side. One edge of the extra channels will extend to an adjacent truss where it is secured with a clip.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

3K. **Resilient Channels** — For use with items 3L, 4F, and 7G — Formed from min 26 MSG galv steel installed perpendicular to trusses. When Item 7G is draped over channels, channels spaced a maximum 12 in. OC. Channels secured to each truss as described in Item 3L. Channel ends butted and centered under the joists and attached to the joists with one screw at each end. Additional resilient channels positioned so as to coincide with end joints of gypsum board as shown in the above illustration. Additional channels shall extend min 3 in. beyond each side edge of board.

3L. **Steel Framing Members*** — (Optional, Not Shown) — Used as an alternate method to attach resilient channels to joists (Item 2). For use with items 3K, 4F and 7G. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 24 in. O.C. Channel ends butted and centered under the joists and attached to the joists with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints, as described in Item 3K. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to

System No. 19

Structural Cement-Fiber Units* — For use with **UNITED STATES GYPSUM CO** Types C, IP-X2, IPC-AR and ULIX gypsum boards only. Nom 3/4 in. thick, with long edges tongue and grooved. Long dimension of panels to be perpendicular to wood trusses with end joints staggered a min of 2 ft and centered over the trusses. Panels secured to wood trusses with 1-5/8 in. long, No. 8, self- countersinking wood screw spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the end edges of the panel.
UNITED STATES GYPSUM CO — Types STRUCTO-CRETE, USGSP

System No. 20

Subflooring — Min 23/32 in. thick T & G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. TetraGRIP™ nails measuring 2-3/8 in. long, 0.113 in. diameter, 0.272 in. round head, and helically threaded shank with barbed features on the helix meeting ASTM F1667 and having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

2. **Trusses** — Parallel chord trusses, spaced a max 24 in. OC, fabricated from nom 2 by 4 in. lumber with lumber oriented vertically or horizontally. Min truss depth is 12 in. when item 9 is not employed. Min truss depth is 18 in. when Item 9 is employed. Truss members secured together with min No. 20 MSG galv steel truss plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split-tooth-type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx 7/8 in. centers with four rows of teeth per in. of plate width.

3. **Furring Channels** — Furring channels, 7/8 in. deep by 2-9/16 in. or 2-11/16 in. or 2-23/32 in. wide at the base and 1-7/16 in. wide at the face, formed from No. 25 ga galv steel, spaced 24 in. OC perpendicular to trusses. Channels secured to trusses with double strand of No. 18 SWG galv steel wire spaced 48 in. OC. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Two furring channels used at end

the joists with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.

ACOUSTIC PROPERTIES L L C — Types RC-1 Boost

4. **Gypsum Board*** — One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to furring or resilient channels. Gypsum board secured with 1 in. long No. 6 Type S bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. End joints secured to both resilient channels as shown in the end joint detail. When **Steel Framing Members** (Item 3B) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimension perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long No. 6 Type S bugle head screws spaced 12 in. OC in the field of the board. Gypsum board butt joints shall be staggered 2 ft within the assembly, and shall occur between the main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels at each butt joint shall be spaced approximately 3-1/2 in. OC, and be attached to the bottom chord of the truss with one RSIC-1 clip at each end of the channel. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Outer layer secured to furring channels using 1-5/8 in. long No. 6 Type S screws spaced 8 in. OC and 1-1/2 in. from the end joint. Butted end joints to be offset a min. of 8 in. from base layer end joints. Butted side joints of outer layer to be offset min. 18 in. from butted side joints of base layer. When **Steel Framing Members** (Item 3C) are used, two layers of nom 5/8 in. thick, 4 ft wide are installed with long dimensions perpendicular to furring channels. Base layer attached to the furring channels using 1 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field of the board. Butted end joints shall be staggered min 2 ft. within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels shall be spaced approximately 4 in. OC, and be attached to underside of the truss with one Isomax clip at each end of the channel. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Outer layer attached to the furring channels using 1-5/8 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field. The end of the outer layer boards at the butt joint shall be attached to the base layer boards with 1-5/8 in. long Type G screws spaced 8 in. OC and 1-1/2 in. from the end joint. Butted end joints to be offset a min of 8 in. from base layer end joints. Butted side

joints of gypsum board (Item 4), each extending a min of 6 in. beyond both side edges of the board.

3A. **Resilient Channels** — (Not Shown) — As an alternate to Item 3, resilient channel formed from No. 26 MSG galv steel, spaced 16 in. OC perpendicular to trusses. Channels secured to each truss with 1-1/4 in. long No. 6 Type S bugle head steel screw. Channels overlapped at splices 4 in. Two resilient channels used at end joints of gypsum board (Item 4), each extending a min of 6 in. beyond both side edges of the board. When foamed plastic insulation (Item 7E) is applied to the underside of the subflooring, resilient channels shall be spaced maximum 12 in. OC.

3B. **Steel Framing Members*** — (Optional) — Used as an alternate method to attach furring channels to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to the bottom chord of alternating trusses with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to the bottom chord of alternating trusses with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item 3. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two min 7/16 in. long No. 6 self-tapping framing screws, at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 4. When Fiber, Sprayed (Item 6) is used, furring channel spacing reduced to 16 in. OC and two layers of nom 5/8 in. thick, 4 ft wide gypsum board shall be installed as described in Item 4.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

3C. **Steel Framing Members*** — (Optional, Not Shown) — Used as an alternate method to attach furring channels to trusses. Clips spaced 48 in. OC., and secured to the bottom chord to alternating trusses with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 4. Two layers of gypsum board required as described in Item 4. Not evaluated for use with Item 6. When Item 3C is used and Batts and Blankets* are added per Section III Item 18 Blanket Insulation in the General Information of this Directory (BXUV), clips spaced 48 in. OC, furring channels spaced 16 in. OC max, 3-1/2 in. max. Batts and Blankets* secured to plywood subfloor with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC, and two layers of gypsum board required as described in Item 4A. When the Batts and Blankets* are draped over the furring channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 24 in. OC and secured to consecutive trusses, the furring channel spacing shall be reduced to 12 in. OC, and two layers of gypsum board required as described in Item 4A.
KINETICS NOISE CONTROL INC — Type Isomax.

joints of outer layer to be offset min 18 in. from butted side joints of base layer. When **Steel Framing Members** (Item 3D) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 16 in. within the assembly. . At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. These additional furring channels shall be attached to underside of the truss with Genie clips as described in Item 3D. Screw spacing along the gypsum board butt joint shall be 6 in. OC. When **Steel Framing Members** (Item 3E) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. in from joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between . Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel. When **Fiber, Sprayed** (Items 6 or 6A) is used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels. Base layer gypsum board secured with 1 in. long No. 6 Type S bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. End joints secured to both resilient channels as shown in the end joint detail. Outer layer gypsum board secured with 1-5/8 in. long No. 6 Type S bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. Outer layer shall be finished as described in Item 5. When **Foamed Plastic** insulation (Item 7E) is applied to the underside of the subflooring, screw spacing shall be reduced to 8 in. OC with minimum 1-1/4 in. long Type S screws to install gypsum to the resilient channels (Item 3A). Resilient channels (Item 3A) to be spaced maximum 12 in. OC. Butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. End joints secured to both resilient channels as shown in end joint detail. When **Steel Framing Members** (Item 3E) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved with the butt joint.

3D. **Steel Framing Members*** — (Optional, Not Shown) — Used as an alternate method to attach furring channels to trusses. Clips spaced 48 in. OC. and secured to the bottom chord to alternating trusses with one No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 4. Not evaluated for use with Item 6.
PLITEQ INC — Type Genie Clip

3E. **Steel Framing Members*** — (Optional, Not Shown) — For use with Item 7B - Used as an alternate method to attach furring channels to trusses. Clips spaced at 48" OC and secured to the bottom of the trusses with one 2 in. Coarse Drywall Screw with 1 in. diam. washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire .Additional clips are required to hold the Gypsum Butt joints as described in item 4. Not evaluated for use with Item 6.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

3F. **Resilient Channels** — For use with Item 4B and 7A - Resilient channels, formed from No. 25 MSG galv steel and shaped as shown, spaced 12 in. OC perpendicular to joist. Channels overlapped 4 in. at splices and secured to each joist with 1-1/4 in. Type S screws. Min end clearance of channels to wall to be 1/2 in. Additional resilient channels positioned so as to coincide with end joints of gypsum board.

3G. **Resilient Channels** — For Use With Item 4C and 7C. Formed from min 25 MSG galv steel installed perpendicular to trusses and spaced 16 in. OC. Channels secured to each truss with 1-5/8 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint. Additional channels shall extend min 6 in. beyond each side edge of panel. Insulation, Item 7C is applied over the resilient channel/gypsum panel ceiling membrane.

3H. **Steel Framing Members*** — (Optional, Not Shown) — Used as an alternate method to attach furring channels to trusses. Clips spaced at 48" OC and secured to the bottom of the trusses with one 2-1/2 in. Coarse Drywall Screw with 1 in. diam. washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire. Additional clips are required to hold the Gypsum Butt joints as described in item 4. Not evaluated for use with Item 6.
REGUPOL AMERICA — Type SonusClip

3I. **Steel Framing Members** — (Not Shown) — As an alternate to Item 3, main runners, cross tees, cross channels and wall angle as listed below.

When **Steel Framing Members*** (Item 3I) are used, one layer of 5/8 in. thick, 48 in. wide gypsum board, installed with long dimension perpendicular to cross channels with side joints centered along main runners. Gypsum board fastened to cross channels with 1 in. long No. 8 Type S bugle head steel screws located 1/2 in. from end joints and 1-3/4 in. from side joints and spaced 8 in. OC along the end joints and in the field. Panels fastened to cross tees with 1 in. long, Type S bugle-head screws spaced in the field and 8 in. OC along end joints. Panels fastened to main runners with 1 in. long. Type S bugle-head screws spaced midway between cross tees. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from panel edge. Gypsum board sheets screw attached to leg of wall angle with 1 in. long No. 8 Type S bugle head steel screws spaced 12 in. OC. End joints of panels shall be staggered with spacing between joints on adjacent panels not less than 4 ft OC.

When **Steel Framing Members** (Item 3J) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to resilient channels. Gypsum board secured to resilient channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board and located 3/4 in. from side joints and 1-1/2 in. from end joints. Gypsum board joints are to be staggered by a minimum of 24 in.

AMERICAN GYPSUM CO — Type AG-C

CERTAINTED GYPSUM INC — Types FRPC, Type C

CGC INC — Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C, FSW-G

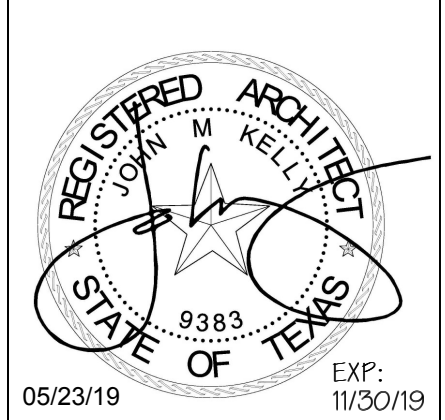
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

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CHECKED BY:	JMK
PROJECT #:	18-2325



LDG DEVELOPEMENT

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MOONLIGHT GARDEN

8901 NUCKOLLS CROSSING RD, AUSTIN TX 78747

No.	Revision	Date
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USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

4A. **Gypsum Board** — For use when Item 3C is used and **Batts and Blankets*** are secured to the plywood subfloor, to the trusses or draped over the furring channel/gypsum panel ceiling membrane as described in Item 3C. For method of gypsum board installation, see Item 4.
CGC INC — Types C, IP-X2, IPC-AR

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

4B. **Gypsum Board*** — For use when **Batts and Blankets*** (Item 7A) and Resilient Channels (Item 3F) are used. Nom 5/8 in. thick, 4 ft wide gypsum board installed with long dimension perpendicular to resilient channels. Nom 1 in. long No. Type S bugle head screws are driven through channel spaced 8 in. OC. End joints of gypsum board similarly fastened to additional resilient channels positioned at end joint locations.
AMERICAN GYPSUM CO — Type AG-C.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C

4C. **Gypsum Board*** — For use with Items 3G and 7C or 3I and 7F, and 7C. Nom 5/8 in. thick, 48 in. wide gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 8 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. Finish Rating with this ceiling system is 20 min.
UNITED STATES GYPSUM CO — Type ULIX

4D. **Gypsum Board*** — For use when Flooring System (Item 1) consists of both System No. 1 and min 15/32 in. plywood, min grade "Underlayment" or "Sturd-I-Floor" with T & G edges and conforming with PS1-83 specifications, or min 3/4 in. thickness of any Floor Topping Mixture (CCOX) bearing the UL Classification Marking as to Fire Resistance, min Truss depth (Item 2) is 18 in. and Batts and

Blankets (Item 7D) and Resilient Channels (Item 3A) are used. One layer of nom 5/8 in. thick, 48 in. wide gypsum board installed with long dimension perpendicular to resilient channels. Gypsum board secured with 1 in. long Type S bugle head steel screws. Screws spaced 1 in. from side joints, and 12 in. OC in the rest of the field. Screws spaced 1-1/2 in. from the end joints. End joints secured to both resilient channels as shown in end joint detail. When batt insulation (Item 7D) is draped over the resilient channel/gypsum board ceiling membrane, the resilient channel (Item 3A) spacing shall be reduced to 12 in. OC., and gypsum board screws spaced 1 in. from side joints, and 8 in. OC in the rest of the field. For use only with Ceiling Damper described in Item 9R.
PANEL REY S A — Type PRC2

4F. **Gypsum Board*** — For use with Items 3K, 3L, and 7G— One layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to resilient channels. Gypsum board secured to resilient channels with min nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board and located 3/4 in. from side joints and 1-1/2 in. from end joints. Gypsum board butt joints are to be staggered by a minimum of 24 in.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C

5. **Finishing System** — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.

6. **Fiber, Sprayed*** — (Dry Dense Packed 100% Borate Formulation) — (Not Shown, Optional) — The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product. When Item 6 (Fiber, Sprayed, Dry Dense Packed) is used, Furring Channels (Item 3F) or Resilient Channels (Item 3A) spacing shall be reduced to 12 in. OC. When Item 6 (Fiber, Sprayed, Dry Dense Packed) is used, two layers of gypsum board required as described in Item 4. Not evaluated for use with Item 3C.
U S GREENFIBER L L C — INS735, INS745, INS765LD & INS770LD to be used with dry application only.

6A. **Fiber, Sprayed*** — (Loose Fill 100% Borate Formulation) — (Not Shown, Optional) — The finished rating when Fiber, Sprayed is used has not been determined. The fiber is applied without water or adhesive at a minimum dry density of 0.5 lb/ft³ and at a max thickness of 3-1/2 in., in accordance with the application instructions supplied with the product. When Item 6A (Fiber, Sprayed, Loose Fill) is used, Furring Channels (Item 3F) or Resilient Channels (Item 3A) spacing shall be reduced to 12 in. OC. When Item 6A (Fiber Sprayed, Loose Fill) is used, two layers of gypsum board required as described in Item 4. Not evaluated for use with Item 3C.

U S GREENFIBER L L C — INS735, INS745, INS765LD & INS770LD to be used with dry application only.

7. **Batts and Blankets*** — (Not Shown) — For use with Item 3D — Nom 3 in. thick mineral wool insulation held suspended in the concealed space with 0.090 in. diam galv steel wires attached to the wood trusses at 18 in. OC.

7A. **Batts and Blankets*** — For Use With Items 3F and 4B — Glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance having a min. density of 0.5 pcf, draped over the resilient channel/gypsum panel ceiling membrane. No limit on overall thickness.

7B. **Batts and Blankets*** — (Not Shown) — For use with Item 3E — Nom 3-1/2 in. thick, min. 2 pcf fiber glass insulation held suspended in the concealed space with nominal 0.090 in. diam galv steel wires attached to the wood trusses at nominally 16 in. OC.

7C. **Batts and Blankets* or Fiber, Sprayed*** — For Use with Item 4C (Not Shown) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 3G)/gypsum board (Item 4C) ceiling membrane.

7D. **Batts and Blankets*** — For Use With Item 4D — Insulation may be secured to plywood subfloor with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Insulation may alternatively be draped over the resilient channels and gypsum board ceiling membrane, and the resilient channels and gypsum board attachment shall be modified as specified in Item 4D. Any glass fiber insulation bearing the UL Classification Marking for Surface Burning Characteristics and/or Fire Resistance, and having a min density of 0.5 pcf and max thickness of 3-1/2 in. may be used.

7E. **Foamed Plastic*** — (As alternate to Item 6 and 6A, Not Shown) — Spray foam insulation applied directly to the underside of the plywood subflooring. Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft³ or 2.0 lb/ft³ density, depending on the product installed. Spray foam insulation is limited to use with minimum 18 in. deep trusses (Item 2). When spray foam insulation is installed, resilient channels (Item 3A) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 4) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 4) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Item 9) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 3, 3B through 3F, 3G, 6, 6A, 7 through 7D. Not evaluated with Flooring System (Item 1) Configuration No. 1.
BASF CORP — Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, and Walltite® HP+

7F. **Batts and Blankets*** — (Not Shown) For Use with Item 3I and 4C — Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. There is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the Steel Framing Members and gypsum panel membrane.

7G. **Batts and Blankets*** — (Not Shown) For Use with Item 3L, 3K, and 4F — Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. There is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the Steel Framing Members and gypsum panel membrane.

8. **Air Duct*** — (Optional) — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

9. **Ceiling Damper*** — (Optional. To be used with Air Duct Item 8.) — For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max. nom area shall be 349 sq in. Max. overall length and width shall not exceed 18-11/16 in. by 18-11/16 in. with max. 16 in. by 16 in. register opening. Aggregate damper openings shall not exceed 175 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. An aluminum or steel grille (Item 10) shall be installed in accordance with installation instructions.
MIAMI TECH INC — Model Series RxCRD, RxCRDS or RxCRPD

9A. **Ceiling Damper*** — (Optional. To be used with Air Duct Item 8.) — For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max. damper assembly size nom 18 in. long by 18 in. wide and 4-1/4 in. high, or 8 in. diam. fabricated from galv steel. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
RUSKIN COMPANY — Model CFD7T or CFDR7T

9B. Deleted.

9C. **Ceiling Damper*** — (Optional. To be used with Air Duct Item 8.) — For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max 12 in. diameter damper with insulated register box assembly. The maximum size of the register box assembly is nom. 20 in. long by 20 in. wide and 4 in. high fabricated from galv steel. Aggregate area of the register opening(s) through the ceiling membrane shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.
AIRE TECHNOLOGIES INC — Series 57

9D. **Ceiling Damper*** — (Optional. To be used with Air Duct Item 8.) — For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max 20 in. long by 16 in. wide by 4 in. high rectangular damper with duct board plenum box assembly. The maximum outer dimensions of the plenum box assembly are 23-1/2 in. long by 19-1/2 in. wide and 17 in. high fabricated from 6pcf, 1-1/2 to 2 in. thick Knauf Air Duct Board M*. Aggregate area of the register opening(s) through the ceiling membrane shall not exceed 160 sq in. per 100 sq ft ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.
AIRE TECHNOLOGIES INC — Series 58

9E. **Ceiling Damper*** — (Optional. To be used with Air Duct Item 8.) — For use with min. 18 in. deep trusses. Not for use with flooring system 1 or 17. Max 14 in. long by 14 in. wide by rectangular damper with 90° boot. The maximum size of damper/boot assembly is 14 in. long by 14 in. wide and 18 in. high fabricated from galv steel. The aggregate area of the register opening(s) through the ceiling membrane shall not exceed 98 sq in. per 100 sq ft ceiling area. Damper assembly installed in accordance with the manufacturers installation instructions.
AIRE TECHNOLOGIES INC — Models 50 w/ Boot, 50EA w/ Boot, 51 w/Boot, 50 w/ Box, 50EA w/ Box or 51 w/Box

9F. **Ceiling Damper*** — (Optional. To be used with Air Duct Item 8). — For use with min 18 in. deep trusses Not for use with flooring system 1 or 17. Max plenum box size nom 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
LLOYD INDUSTRIES INC — Model CRD 50-BT, CRD 50-EA-BT, CRD 55-BT, CRD 55 EA-BT

9G. **Ceiling Damper*** — (Optional. To be used with Air Duct Item 8). For use with min 18 in. deep trusses Not for use with flooring system 1 or 17. Max plenum box size nom 13 in. long by 13 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 50 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
LLOYD INDUSTRIES INC — Model CRD 50-BT-6, CRD 50-EA-BT-6, CRD 55-BT-6, CRD 55 EA-BT-6

9H. **Alternate Ceiling Damper*** — (Optional. To be used with Air Duct Item 8). Ceiling damper & fan assembly for use with min 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance

with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 10) shall be installed in accordance with installation instructions.
PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA — Model PC-RD05C5

9I. **Alternate Ceiling Damper*** — (Optional. To be used with Air Duct Item 8). Ceiling damper & fan assembly for use with min 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 10) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDFUWT

9J. **Alternate Ceiling Damper*** — (Optional. To be used with Air Duct Item 8). Ceiling damper & fan assembly for use with min 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille (Item 10) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Models RDJ1 and RDH

9K. **Alternate Ceiling Damper*** — (Optional. To be used with Air Duct Item 8). For use with min 18 in. deep trusses. Not for use with flooring system 1 or 17. Max plenum box size nom 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
METAL-FAB INC — Models MSCD-HC and MRCD-HC

9L. **Alternate Ceiling Damper*** — (Optional. To be used with Air Duct Item 8). Ceiling damper & fan assembly for use with min 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 10) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT

9M. **Alternate Ceiling Damper*** — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille (Item 10) shall be installed in accordance with installation instructions.
BROAN-NUTONE L L C — Model RDMWT2

9N. **Alternate Ceiling Damper*** — (Optional. To be used with Air Duct Item 8) — For use with min 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom 21 in. long by 18 in. wide, fabricated from galvanized steel. Plenum box max size nom 21 in. long by 18 in. wide by 14 in. high (inner dimension) fabricated from either galvanized steel or min 1 in. thick Listed Duct Board bearing the UL Listing Marking having a min R-Value of 4.3. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 180 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-1WVT

9O. **Alternate Ceiling Damper*** — (Optional. To be used with Air Duct Item 8) — For use with min 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom 12 in. long by 12 in. wide with an 8 in. diameter damper, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 72 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-2WVT

9P. **Alternate Ceiling Damper*** — For use with min 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 324 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 14 in. Aggregate damper openings shall not exceed 162 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 10) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521

POTTORFF — Model CFD-521

9Q. **Alternate Ceiling Damper*** — For use with min 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 196 sq in. with the length not to exceed 26 in. and the width not to exceed 14 in. Max height of damper shall be 7 in. Aggregate damper openings shall not exceed 98 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions

provided with the damper. A steel grille (Item 10) not to exceed 144 in.² shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Model RD-521-BT

POTTORFF — Model CFD-521-BT

9R. **Alternate Ceiling Damper*** — For use with min 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 10) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Models RD-521-IP, RD-521-NP

POTTORFF — Models CFD-521-IP, CFD-521-NP

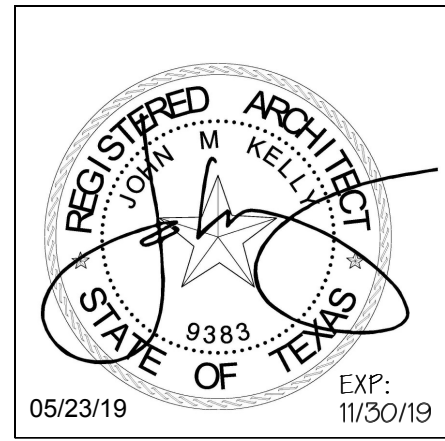
9S. **Alternate Ceiling Damper*** — For use with min 18 in. deep trusses. Not for use with flooring system 1 or 17. Max nom area shall be 144 sq in. with the length not to exceed 14 in. and the width not to exceed 12 in. Max height of damper shall be 17-7/8 in. Aggregate damper openings shall not exceed 74 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 10) shall be installed in accordance with installation instructions.
C&S AIR PRODUCTS — Models RD-521-90, RD-521-NP90

POTTORFF — Models CFD-521-90, CFD-521-90NP

9T. **Alternate Ceiling Damper*** — (Optional. To be used with Air Duct Item 8.) — For use with Item 4D only. Not for use with flooring system 1. Max nom 8 in. diameter by 3-1/8 in. high, fabricated from galvanized steel. Plenum box max size nom 12 in. long by 12 in. wide by 3 in. high fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 72 sq in. per 100 sq ft of ceiling area.
NAILOR INDUSTRIES INC — Types 0755, 0755A

SAFE AIR DOWCO — Types 0455, 0455A

DRAWN BY:	DPF, MAR
CHECKED BY:	JMK
PROJECT #:	18-2325



LDG DEVELOPEMENT

1469 SOUTH FOURTH STREET, AUSTIN, TX 78747
40208,
(P) 502.609.4940

• ARCHITECTURE • LAND PLANNING • LANDSCAPE DESIGN • CONSTRUCTION ADMINISTRATION •

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MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

No.	Revision	Date
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ISSUED FOR PERMIT		
06/03/2019		
ISSUED FOR BID		
ISSUED FOR CONSTRUCTION		
DWG NAME		
DATE		
06/03/19		
DESCRIPTION		
UL DETAILS		
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9U. **Damper*** — (Optional, to be used with Air Duct Item 8) For use with min 18 in. deep trusses. Max nom 11-1/8 in. long by 13-5/8 in. wide, fabricated from galvanized steel. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 76 sq in. per 100 sq ft of ceiling area.
GREENHECK FAN CORP — Model CRD-310WT

10. **Grille** — Aluminum or Steel grille, installed in accordance with the installation instructions provided with the ceiling damper.

11. **Discrete Products Installed in Air-handling Spaces*** — Automatic Balancing Valve/Damper — (Not Shown - Optional) — For use with item 9A, Ruskin Company's Model CFD7T damper (CABS). Ceiling damper to be provided with plenum box per damper manufacturer's instructions with side outlet only. Entire assembly to be installed into any UL Class 0 or Class 1 flexible air duct in accordance with the instructions provided by the automatic balancing valve/damper manufacturer.
METAL INDUSTRIES INC — Model ABV-4, ABV-5, ABV-6

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2019-05-03

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. P522

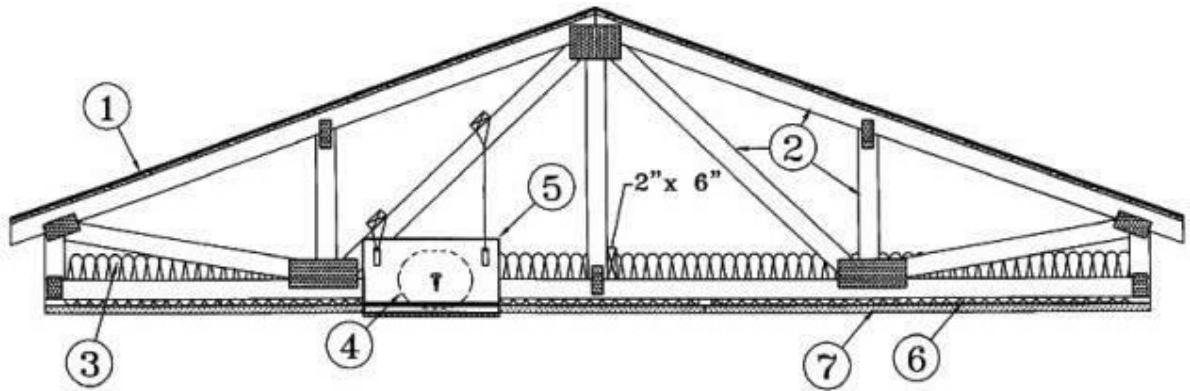
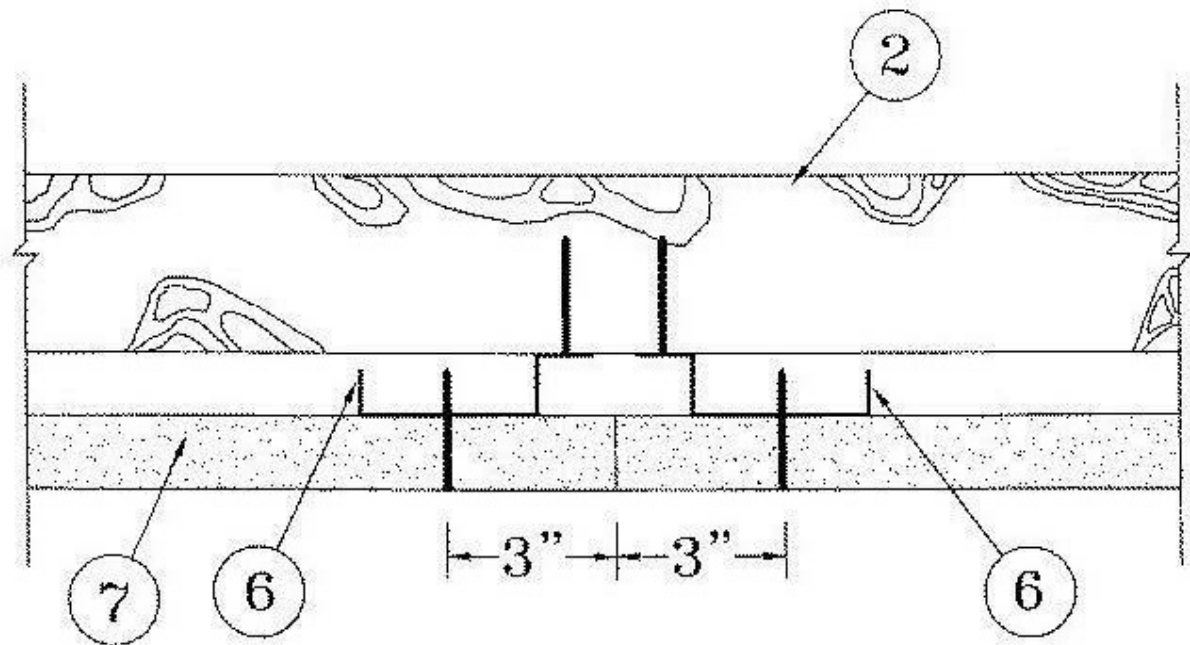
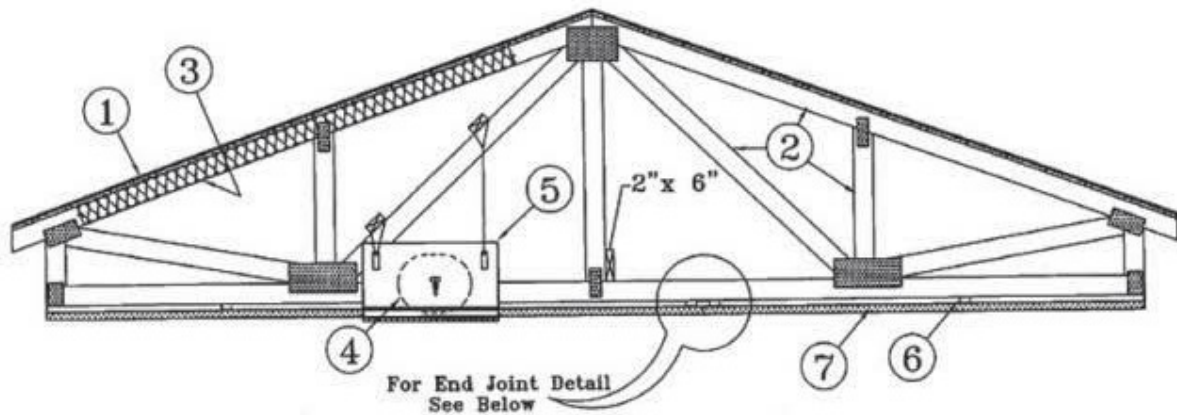
April 04, 2019

Unrestrained Assembly Rating — 1 Hr

Finish Rating — 25 Min (See Items 3 or 3A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide **BXUV** or **BXUV7**

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



Alternate Insulation Placement

1. **Roofing System*** — Any UL Class A, B or C Roofing System (TGFU) or Prepared Roof Covering (TFWZ) acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Construction adhesive may be used with either the nails or staples.

2. **Trusses** — Pitched or parallel chord wood trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with min. 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min.

area in the plane of the truss of 21 sq/ft. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing.

3. **Batts and Blankets*** — (Optional) — Required when Item 6B is used — Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. When **Steel Framing Members** (Item 6B) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6Ba) and gypsum board ceiling membrane, and friction-fitted between trusses and Steel Framing Members (Item 6Bd). The finished rating has only been determined when the insulation is secured to the decking.

3A. **Fiber, Sprayed*** — As an alternate to Item 3 (not evaluated for use with Item 6B) — Any thickness of spray-applied cellulose insulation material, having a min density of 0.5 lb/ft³, applied with water, over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Fiber, Sprayed is applied with moisture in accordance with the application instructions supplied with the product. The finish rating when Fiber Sprayed is used has not been determined. Alternate application method: The fiber is applied without water or adhesive in accordance with the application instructions supplied with a minimum density of 0.5 lb/ft³ over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Alternate application method: The fiber is applied without water or adhesive to a nominal density of 3.5 lb/ft³ behind netting (Item 9) stapled to the rafters. The netting is stapled at both lower edges of the rafters creating a cavity to accept the cellulose fiber.
U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS51OLD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.

3B. **Foamed Plastic*** — (As an alternate to Item 3 or 3A, Not Shown) — Spray foam insulation applied directly to the underside of the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft³ density. When spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) installed at 6 in. OC to allow for maximum 3 in. spacing off ends of the gypsum board joints. Gypsum board (Item 7) to be installed using 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5H) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.

SES FOAM INC — Sucraseal

3C. **Cavity Insulation - Batts and Blankets* or Fiber, Sprayed*** — (As described above) in Items 3 and 3A — (For Use with Item 7B, Not Shown) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6G)/gypsum board (Item 7B) ceiling membrane.

3D. **Foamed Plastic*** — (As alternate to Item 3, 3A, or 3B, Not Shown) — Spray foam insulation applied directly to the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft³ or 2.0 lb/ft³ density, depending on the product installed. When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5H) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 6A through 6F.
BASF CORP — Enerlite® NM, Enerlite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, and Walltite® HP+

4. **Air Duct*** — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

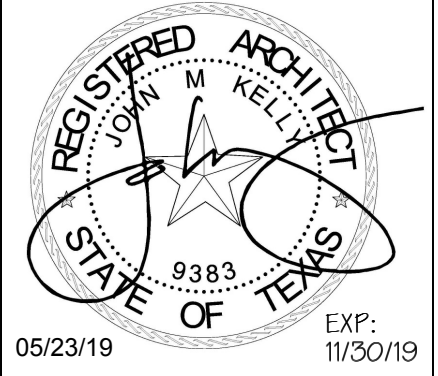
5. **Ceiling Damper*** — Max nom area, 324 sq in. Max square size, 18 in. by 18 in. rectangular sizes not to exceed 324 sq in. with a max width of 18 in. Max damper height is 14 in. Installed in accordance with manufacturers installation instructions provided with the damper. Max damper openings not to exceed 162 sq in. per 100 sq ft of ceiling area.
C&S AIR PRODUCTS — Model RD-521

POTTORFF — Model CFD-521

5A. **Alternate Ceiling Damper*** — Max nom area, 196 sq in. Max square size, 14 in. by 14 in. Rectangular sizes not to exceed 196 sq in. with a max width of 26 in. Max overall damper height is 7 in. Installed in accordance with the manufacturers installation instructions provided with the damper. Max damper openings not to exceed 98 sq in. per 100 sq ft of ceiling area.
C&S AIR PRODUCTS — Model RD-521-BT

POTTORFF — Model CFD-521-BT.

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CHECKED BY:	JMK
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MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

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5B. Alternate Ceiling Damper* — Max nom area shall be 256 sq in. with the length not to exceed 24 in. and the width not to exceed 20 in. Max height of damper shall be 17 in. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille shall be installed in accordance with installation instructions.

C&S AIR PRODUCTS — Model RD-521-IP, RD-521-NP

POTTORFF — Models CFD-521-IP, CFD-521-NP

5C. Alternate Ceiling Damper* — Ceiling damper & fan assembly. Max nom area shall be 75 sq in. with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturers installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

DELTA ELECTRONICS INC — Models CRD2, GBR-CRD, ITG-CRD

5D. Alternate Ceiling Damper* — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 75 sq in. with the length not to exceed 9-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

DELTA ELECTRONICS INC — Model SIG-CRD

5E. Alternate Ceiling Damper* — For use with min 18 in. deep trusses. Max nom area shall be 144 sq in. with the length not to exceed 14 in. and the width not to exceed 12 in. Max height of damper shall be 17-7/8 in. Aggregate damper openings shall not exceed 74 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille shall be installed in accordance with installation instructions.

C&S AIR PRODUCTS — Model RD-521-90, RD-521-NP90

POTTORFF — Models CFD-521-90, CFD-521-90NP

5F. Alternate Ceiling Damper* — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 131 sq in. with the length not to exceed 11-1/16 in. and the width not to exceed 11-7/8 in. Aggregate damper openings shall not exceed 66 sq in. per 100 sq ft of ceiling area. Damper shall be installed in

combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

DELTA ELECTRONICS INC — Model SMT-CRD

5G. Alternate Ceiling Damper* — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 103 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA — Model PC-RD05C5

5H. Alternate Ceiling Damper* — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

BROAN-NUTONE L L C — Model RDFUWT

5I. Alternate Ceiling Damper* — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille shall be installed in accordance with installation instructions.

BROAN-NUTONE L L C — Models RDJ1 and RDH

5J. Alternate Ceiling Damper* — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

BROAN-NUTONE L L C — Model RDMWT

5K. Alternate Ceiling Damper* — Ceiling damper & fan assembly for use with min 18 in. deep trusses. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

BROAN-NUTONE L L C — Model RDMWT2

6. Furring Channels — Resilient channels formed of 25 MSG thick galv steel. Installed perpendicular to the trusses (Item 2), spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed space, or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane, or when insulation (Item 3B or 3D) is applied to the underside of the roofing system (Item 1). Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.

6A. Steel Framing Members* — (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to trusses when no insulation (Items 3 or 3A) is fitted in the concealed space or 12 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane or 24 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane and a second layer of gypsum board is attached as described in Item 7 for steel framing members. Channels secured to trusses as described in Item 6Ab. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. Steel Framing Members — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 by 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 by 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item 6Aa. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each

flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

6B. Steel Framing Members* — (Not Shown) — As an alternate to Items 6 and 6A.

a. Furring Channels — Hat-shaped furring channels, 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga. galv steel, spaced max 16 in. OC perpendicular to trusses and Cold Rolled Channels (Item 6Bb). Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batts and Blankets draped over furring channels as described in Item 3. Two layers of gypsum board attached to furring channels as described in Item 7.

b. Cold Rolled Channels — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Bd). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. Blocking — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (Item 2) at the top and bottom of the blocking at each Steel Framing Member (Item 6Bd) location.

d. Steel Framing Members* — Hangers spaced 48 in. OC. max along truss, and secured to the Blocking (Item 6Bc) on alternating trusses with a single 5/16 in. by 2 in. hex head lag bolt or four #6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in. long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of trusses between gypsum board installation. Spring gauge of hanger chosen per manufacturer's instructions.

KINETICS NOISE CONTROL INC — Type ICSV.

6C. Steel Framing Members* — (Not Shown) — As an alternate to Items 6, 6A and 6B.

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep installed perpendicular to wood structural members. Channels spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed space or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space. Channels secured to trusses as described in Item 6Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire near each end of overlap.

b. Steel Framing Members* — Used to attach furring channels (Item 6Ca) to trusses (Item 2). Clips spaced at the bottom chord of each truss (24 in. OC) with one No. 8 by 2-1/2 in. long coarse drywall screw through center grommet. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item 6Ca. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.

PLITEQ INC — Type Genie Clip

6D. Steel Framing Members* — (Not Shown) — As an alternate to Items 6, 6A, 6B and 6C.

a. Main runners — Installed perpendicular to trusses — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners hung a min of 2 in. from bottom chord of trusses with 12 SWG galv steel wire. Wires located a max of 48 in. OC.

b. Cross tees or channels — Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face or cross channels, nom 4 ft long, 1-1/2 wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. Wall angles or channels — Used to support steel framing member ends and for screw-attachment of the gypsum wallboard — Min 0.016 in. thick painted or galvanized steel angle with 1 in. legs or min. 0.016 in. thick painted or galvanized steel channel with a 1 by 1-1/2 by 1 in. profile, attached to walls at perimeter of ceiling with fasteners 16 in. OC.

CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

6E. Alternate Steel Framing Members* — (Not Shown) — As an alternate to items 6, 6A, 6B, and 6C, furring channels and Steel Framing Members as described below.

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-5/8 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6F. Steel Framing Members* — (Not Shown) — As an alternate to Items 6 through 6E- Not for use with Items 3 or 3A. Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

USG INTERIORS LLC — Type DGL or RX

6G. Resilient Channels — For Use With Item 7B - Formed from min 25 MSG galv steel installed perpendicular to trusses and spaced 16 in. OC. Channels secured to each truss with 1-5/8 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint. Additional channels shall extend min 6 in. beyond each side edge of panel. Insulation, Item 3C is applied over the resilient channel/gypsum panel ceiling membrane.

6H. Alternate Steel Framing Members* — (Not Shown) — As an alternate to items 6 through 6G, furring channels and Steel Framing Members as described below.

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-1/2 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing

shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

b. Steel Framing Members* — Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2-1/2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.

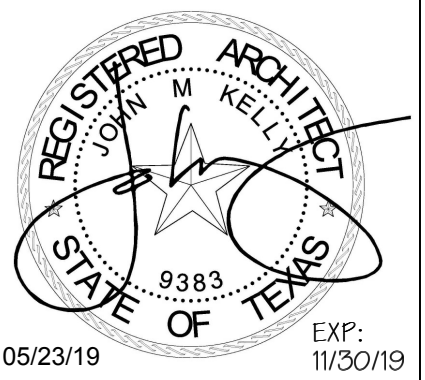
REGUPOL AMERICA — Type SonusClip

7. Gypsum Board* — One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. OC along butted end-joints and in the field when no insulation (Item 3 or 3A) is fitted in the concealed space, or a max of 8 in. OC along butted end-joints and in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane. When insulation (Item 3B or 3D) is installed in the concealed space, spray-applied to the underside of the roofing system (Item 1), screws are spaced a max of 8 in. OC along resilient channels, fasteners are increased in length to 1-1/4 in, and gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels.

When **Steel Framing Members*** (Item 6A or 6C) are used, sheets installed with long dimension perpendicular to furring channels and side joints of sheet located beneath trusses. Gypsum board screws are driven through channel spaced 12 in. OC in the field when no insulation (Item 3 or 3A) is fitted in the concealed space, or 8 in. OC in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels. At the gypsum board butt joints, each end of the gypsum board shall be supported by a single length of furring channel equal to the width of the wallboard plus 6 in. on each end. The furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the trusses with one clip at each end of the channel. Screw spacing along the butt joint to attach the gypsum board to the furring channels shall be 8 in. OC. Second (outer) layer of gypsum board required when furring channels (Item 6A, a) are spaced 24 in. OC and insulation is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane. Outer layer of gypsum board attached to the furring channels using 1-5/8 in. long Type S bugle-head screws spaced 8 in. OC at butted joints and 12 in. OC in the field. Butted end joints of outer layer to be offset a minimum of 8 in. from base layer end joints. Butted side joints of outer layer to be offset minimum 18 in. from butted side joints of base layer.

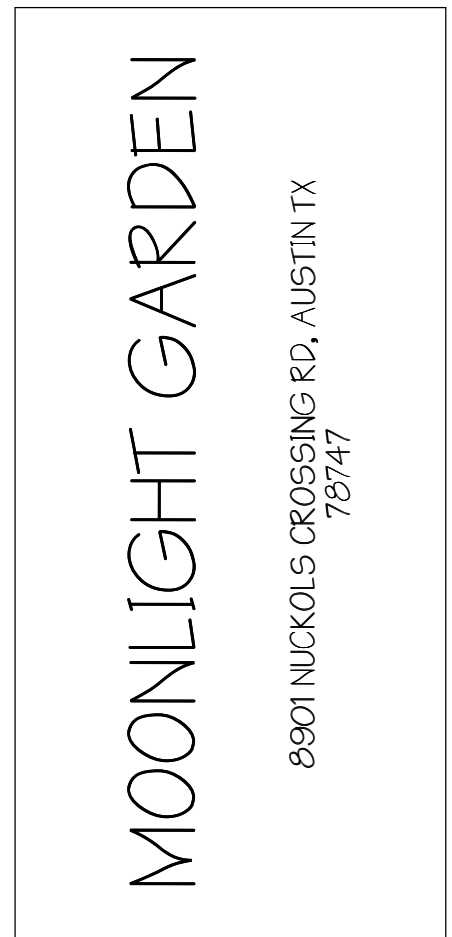
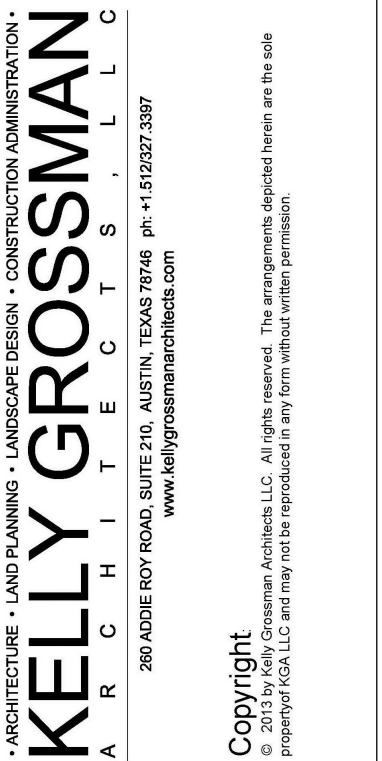
When **Steel Framing Members** (Item 6B) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions perpendicular to furring channels (Item 6Ba). Base layer attached to the furring channels using 1 in. long

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CHECKED BY:	JMK
PROJECT #:	18-2325



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from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with 1 in. drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

When **Steel Framing Members** (Item 6H) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved with the butt joint.

CGC INC — Types C, IP-X2, IPC-AR

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

7A. **Gypsum Board*** — For use with Steel Framing Members (Item 6D) when Batts and Blankets* (Item 3) are not used - One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to the main runners. Gypsum board fastened to each cross tee or channel with five wallboard screws, with one screw located at the midspan of the cross tee or channel, one screw located 12 in. from and on each side of the cross tee or channel mid span and one screw located 1-1/2 in. from each gypsum board side joint. Except at wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flange. At gypsum board end joints, gypsum board screws shall be located 1/2 in. from the joint. Gypsum board fastened to main runners with wallboard screws 1/2 in. from side joints, midway between intersections with cross tees or channels (16 in. OC). End joints of adjacent gypsum board sheets shall be staggered not less than 32 in. Gypsum board sheets screw attached to leg of wall angle with wallboard screws spaced 12 in. OC. Joints treated as described in Item 7. For use with **Steel Framing Members*** (Item 6D) when **Batts and Blankets*** (Item 3) are used - Ratings limited to 1 Hour - 5/8 in. thick, 4 ft wide; installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long steel gypsum board screws spaced 8 in. OC in the field and 8 in. OC along end joints. Fastened to main runners with 1 in. long

gypsum board screws spaced midway between cross tees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC. **CGC INC** — Type C or IP-X2

UNITED STATES GYPSUM CO — Type C or IP-X2

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C or IP-X2

7B. **Gypsum Board*** — For use with Items 3C and 6G. Nom 5/8 in. thick, 48 in. wide gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 8 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. Finish Rating with this ceiling system is 20 min. **UNITED STATES GYPSUM CO** — Type ULIX

8. **Finishing System** — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board. **Alternate Ceiling Membrane** — Not Shown.

9. **Netting** — Fibrous, woven netting material fastened to underside of each joint with staples, with side joints overlapped.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2019-04-04

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance

assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.

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FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. U341

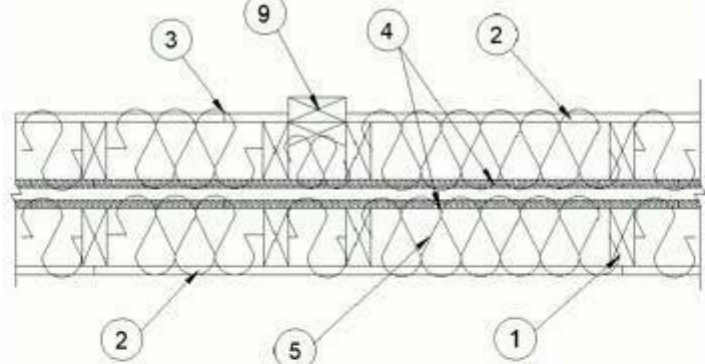
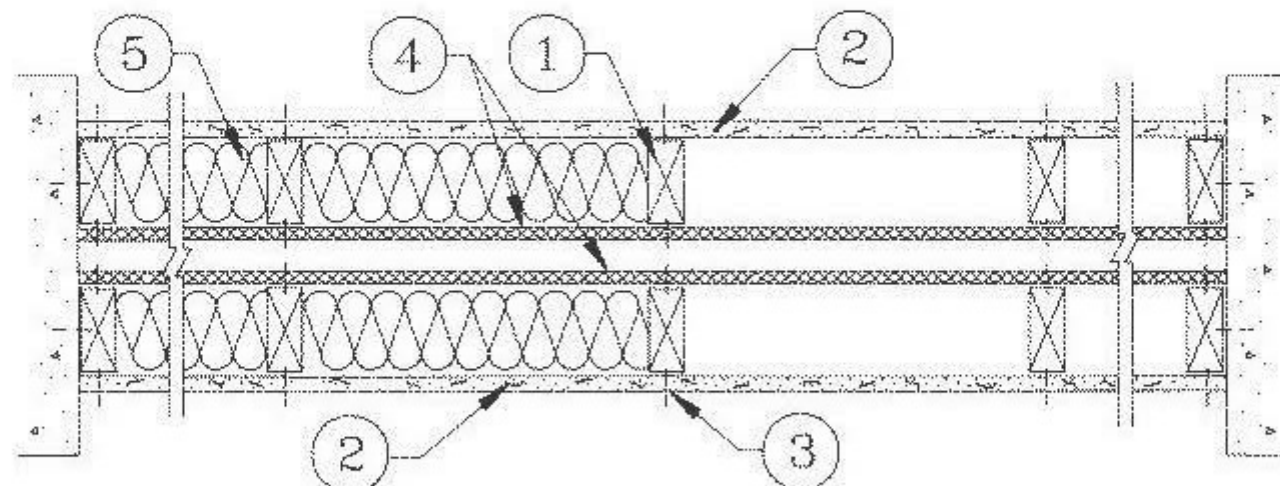
April 15, 2019

Bearing Wall Rating — 1 Hr.

Finish Rating — Min 20 min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide **BXUV** or **BXUV7**

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



HORIZONTAL SECTION

1. **Wood Studs** — Nom 2 by 4 in., spaced 24 in. OC max. Cross braced at mid-height and effectively firestopped at top and bottom of wall. No min. air space between stud rows except to accommodate attachment of sheathing, where required. See items 4 and 5.

2. **Gypsum Board*** — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 5/8 in. thick 4 ft wide. Gypsum board applied horizontally or vertically, unless specified below, and nailed to studs and bearing plates 7 in. OC with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 bugle head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement coated nails. When **Steel Framing Members*** (Item 6-6C) are used, wallboard attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When used in widths other than 48 in., gypsum board to be installed horizontally.

ACADIA DRYWALL SUPPLIES LTD (View Classification) — CKNX.R25370

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

2A. **Gypsum Board*** — (As an alternate to Item 2, not shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to studs and bearing plates on one side of the assembly with 1-5/8 in. long Type S screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Horizontal joints of vertically applied panels need not be backed by studs. Panel joints covered with paper tape and two layers of joint compound. Screwheads covered with two layers of joint compound. Batts and Blankets placed in stud cavity as described in Item 5C. Not evaluated for use with Steel Framing Members, Furring Channels or Fiber, Sprayed. **PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Type QuietRock QR-530 (finish rating 23 min).

2B. **Gypsum Board*** — (As an alternate to Item 2, not shown) — Any 5/8 in. thick gypsum panels that are eligible for use in Design Nos. L501, G512 or U305, supplied by the Classified companies listed below shown in the **Gypsum Board*** (CKNX) category. Applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.

UNITED STATES GYPSUM CO

USG BORAL DRYWALL SFZ LLC

USG MEXICO S A DE C V

2C. **Gypsum Board*** — (As an alternate to Item 2, Not Shown) — 5/8 in. thick gypsum panels applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally. **AMERICAN GYPSUM CO** — Types AGX-1, M-Glass, AG-C, LightRoc

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1

NATIONAL GYPSUM CO — Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-G, Type FSK-C, Type FSW-C, Type FSMR-C, Type FSW-6, Type FSL

THAI GYPSUM PRODUCTS PCL — Type C or Type X

2D. **Gypsum Board*** — (As an alternate to Items 2, 2A, 2B and 2C) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed as described in Item 2. When used in widths of other than 48 in., gypsum boards are to be installed horizontally. **GEORGIA-PACIFIC GYPSUM L L C** — GreenGlass Type X, Type DGG.

2E. **Gypsum Board*** — (As an alternate to Items 2 through 2D) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically only and secured as described in Item 2. **GEORGIA-PACIFIC GYPSUM L L C** — Type X ComfortGuard Sound Deadening Gypsum Board.

2F. **Gypsum Board*** — (As an alternate to Items 2 through 2E) - Installed as described in Item 2. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC. Not for use with item #6. **NATIONAL GYPSUM CO** — SoundBreak XP Type X Gypsum Board

2G. **Gypsum Board*** — (As an alternate to Items 2 through 2F) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2. **PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Types QuietRock ES.

2H. **Gypsum Board*** — (As an alternate to Items 2 through 2G) — Installed as described in Item 2. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally fastened to the studs and plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. **CERTAINTEED GYPSUM INC** — Type SilentFX

2I. **Wall and Partition Facings and Accessories*** — (As an alternate to Items 2 through 2H) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2. **PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Type QuietRock 527.

2J. **Gypsum Board*** — (As an alternate to 5/8 in. Type FSW in Item 2) — 2 layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in item 2, spaced 24 in. OC. Outer layer attached per Item 2. **NATIONAL GYPSUM CO** — Type FSW.

2K. **Gypsum Board*** — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally. **CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C** — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3. **Joints and Nailheads** — Gypsum board joints of outer layer covered with tape and joint compound. Nail heads of outer layer covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape.

4. **Sheathing** — (Optional) — Septum may be sheathed with min 7/16 in. thick wood structural panels min grade "C-D" or "Sheathing" or min 1/2 in. thick **Mineral and Fiber Boards***.

DRAWN BY:

DPF,
MAR

CHECKED BY:

JMK

PROJECT #:

18-2325



LDG DEVELOPMENT

1469 SOUTH FOURTH STREET, LOUISVILLE, KY 40208, (P) 502.609.4940

• ARCHITECTURE • LAND PLANNING • LANDSCAPE DESIGN • CONSTRUCTION ADMINISTRATION •
KELLY GROSSMAN
A R C H I T E C T S L L C
280 ADAMS EDDY ROAD, SUITE 370, AUSTIN, TEXAS 78746 (P) 512.927.3397
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MOONLIGHT GARDEN
8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

No.	Revision	Date
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ISSUED FOR PERMIT

06-10-2019

ISSUED FOR BID

ISSUED FOR CONSTRUCTION

DWG NAME

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DESCRIPTION

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See **Mineral and Fiber Boards** (CERZ) category for names of Classified companies.

5. **Batts and Blankets*** — 3-1/2 in. max thickness glass or mineral fiber batt insulation. **Optional** when sheathing (Item 4) is used on both halves of wall.

See **Batts and Blankets** (BZJZ) category for list of Classified companies.

5A. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product.
U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.

5B. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 5) when Sheathing (Item 4) is used on both halves of wall - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

5C. **Batts and Blankets*** — (Required for use with Wall and Partition Facings and Accessories, Item 2A. Use of Sheathing, Item 4, does not nullify requirement of Item 5C for use with Item 2A) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5D. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 5) and Item 5A when Sheathing (Item 4) is used on both halves of wall - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

5E. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The

material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³.
APPEGATE HOLDINGS L L C — Type 1 SAFE Applegate Fired Rated Material

6. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

A. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 2.

B. **Steel Framing Members*** — Used to attach furring channels (Item a) to studs (Item 1) . Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

6A. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members*** — Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
PLITEQ INC — Type Genie Clip

6B. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

6C. **Steel Framing Members*** — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

A. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.

B. **Steel Framing Members*** — Used to attach furring channels (Item 6CA) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

6D. **Steel Framing Members*** — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below:

a. **Resilient Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 2.

b. **Steel Framing Members*** — Used to attach resilient channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole.

Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7. **Wall and Partition Facings and Accessories*** — (Optional, Not shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

8. **Mineral and Fiber Board*** — ((Optional, Not Shown) — For optional use as an additional layer on one or both sides of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing as described in Item 2. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

9. **Non-Bearing Wall Partition Intersection** — (Optional) — Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

(Optional, Not Shown) Alternate Construction For Use On One Side Of The Wall.

10. **Mineral and Fiber Board*** — For use with Items 10A-10D) —Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

10A. **Glass Fiber Insulation** — (For use with Item 10) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.

10B. **Batts and Blankets*** — (As an alternate to Item 10B, For use with Item 10), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.
THERMAFIBER INC — Type SAFB, SAFB FF

10C. **Adhesive** — (For use with Item 10) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A).

10D. **Gypsum Board*** — (For use with Item 10) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 10). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.
AMERICAN GYPSUM CO — Type AG-C

CERTAINTED GYPSUM INC — Type FRPC, Type C

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Type CTypes C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

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Last Updated on 2019-04-15

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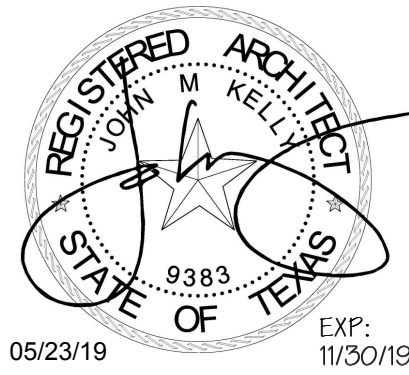
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- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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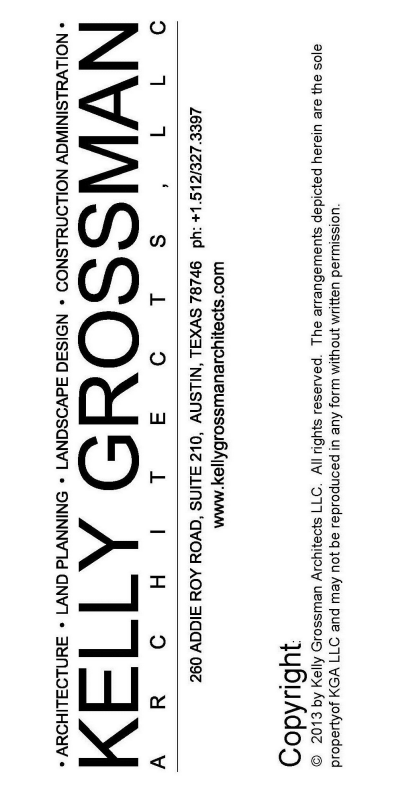
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DRAWN BY:	DPF, MAR
CHECKED BY:	JMK
PROJECT #:	18-2325



LDG DEVELOPEMENT

1469 SOUTH FOURTH
STREET, LOUISVILLE, KY
40208,
(P) 502.609.4940



MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX
78747

No.	Revision	Date
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DWG NAME		
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FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. U305

April 25, 2019

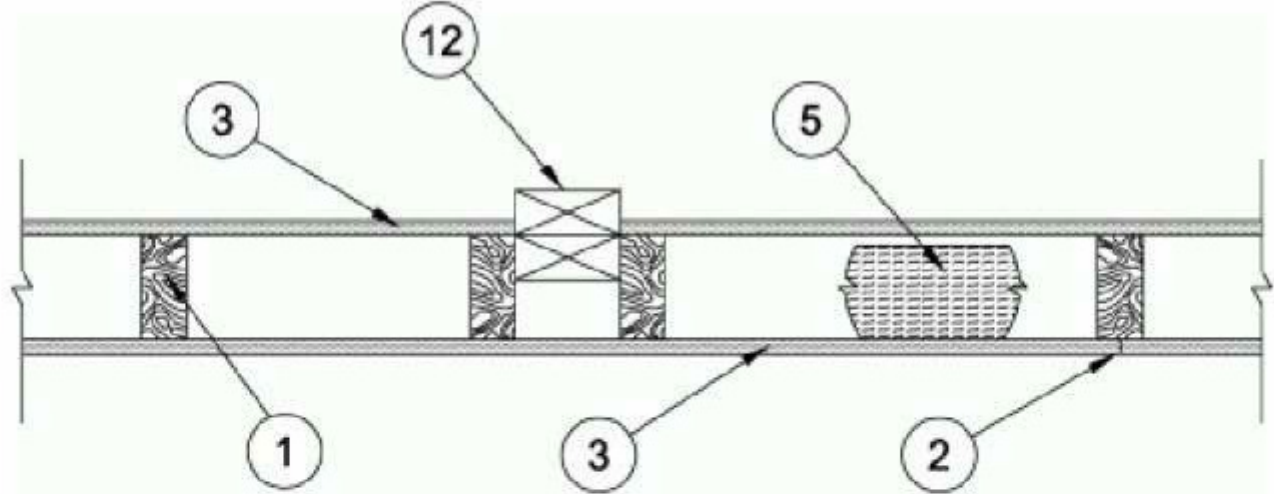
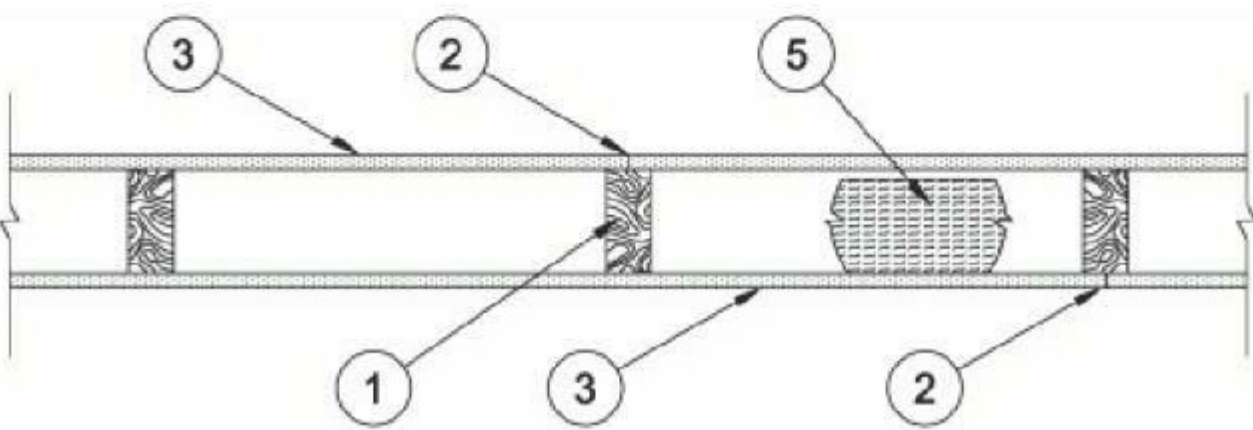
Bearing Wall Rating — 1 Hr

Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L.

STC Rating - 56 (See Item 9)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide **BXUV** or **BXUV7**

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Wood Studs** — Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.

2. **Joints and Nail-Heads** — Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.

3. **Gypsum Board*** — 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6F, **Steel Framing Members***.

When Items 6, 6B, 6C, 6D, 6E, or 6F, **Steel Framing Members***, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 6A, **Steel Framing Members***, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.

When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

ACADIA DRYWALL SUPPLIES LTD — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO — Types AGX-1 (finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min)

CERTAINTEED GYPSUM INC — Type 1, Type SF3 (finish rating 20 min) or FRPC; Type C., Type X or Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min).

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLLX (finish rating 24 min)

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min).

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), or Type PG-C

PANEL REY S A — Type GREX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min)

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULIX (finish rating 20 min)

USG BORAL DRYWALL SFZ LLC — Type SGX (finish rating 24 min).

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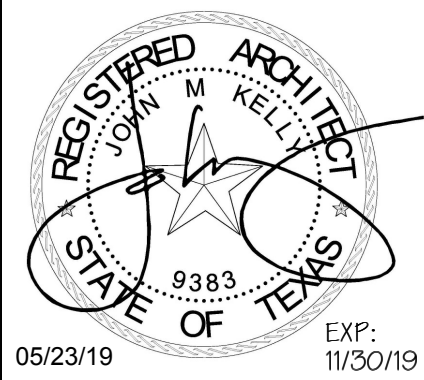
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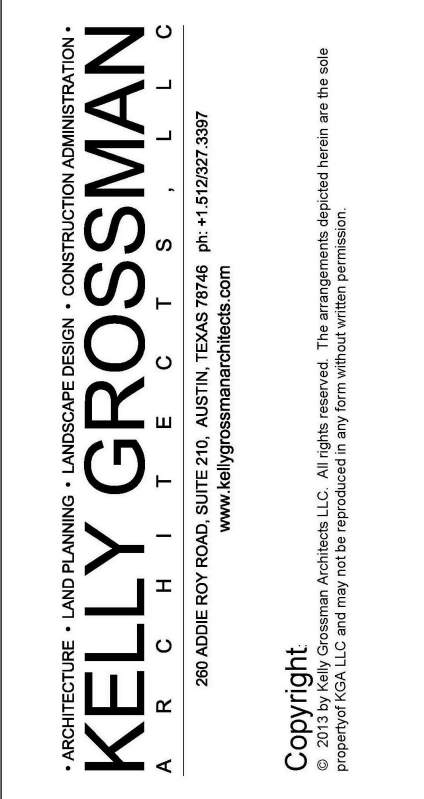
PROJECT #:

18-2325



LDG DEVELOPMENT

1469 SOUTH FOURTH
STREET, LOUISVILLE, KY
40208,
(P) 502.609.4940



USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)

3A. **Gypsum Board*** — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

AMERICAN GYPSUM CO — Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LightRoc (finish rating 25 min.)

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1 (finish rating 26 min)

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

NATIONAL GYPSUM CO — Type FSW (finish rating 24 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

3B. **Gypsum Board*** — (As an alternate to Item 3) — Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A.

CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

3C. **Gypsum Board*** — (As an alternate to Items 3, 3A and 3B) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.

CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A DE C V — Type SHX

3D. **Gypsum Board*** — (As an alternate to Items 3, 3A, 3B, or 3C — Not Shown) — For Direct Application to Studs Only- Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RAY-BAR ENGINEERING CORP — Type RB-LBG (finish rating 24 min)

3E. **Gypsum Board*** — (As an alternate to Items 3, 3A, 3B, 3C, and 3D) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in.

from edge of board or nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

GEORGIA-PACIFIC GYPSUM L L C — Type DGG (finish rating 20 min), GreenGlass Type X (finish rating 23 min)

3F. **Gypsum Board*** — (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) — 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC thereafter.

CGC INC — Type USGX (finish rating 22 min)

UNITED STATES GYPSUM CO — Type USGX (finish rating 22 min.)

USG BORAL DRYWALL SFZ LLC — , Type USGX (finish rating 22 min.)

USG MEXICO S A DE C V — Type USGX (finish rating 22 min.)

3G. **Gypsum Board*** — (As an alternate to Items 3 through 3F) — 5/8 in. thick paper surfaced applied vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.

GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min)

3H. **Gypsum Board*** — (As an alternate to Items 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

3I. **Gypsum Board*** — (As an alternate to Items 3 through 3H, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES (finish rating 20 min)

3J. **Gypsum Board*** — (As an alternate to Item 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically or horizontally. Gypsum panels secured per item 3 or 3A.

CERTAINTEED GYPSUM INC — Type SilentFX

3K. **Gypsum Board*** — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 8 in. OC with the last screw 1 in. from the edge of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min).

3L. **Gypsum Board*** — (As an alternate to Item 3) — For Direct Application to Studs Only — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".

MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

3M. **Gypsum Board*** — (As an alternate to Items 3) — For Direct Application to Studs Only — For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression

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DWG NAME		
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DESCRIPTION		
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SHEET		
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fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

3N. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick, 4 ft. wide, applied horizontally or vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3 or 3A.

CERTAINTEED GYPSUM INC — Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2 (finish rating 24 min)

3O. Wall and Partition Facings and Accessories* — (As an alternate to Item 3, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527 (finish rating 24 min).

3P. Gypsum Board* — (As an alternate to Item 3, Not Shown) — Two layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1-1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nails spaced 8 in. OC starting with a 4" stagger.

NATIONAL GYPSUM CO — Type FSW (finish rating 25 min)

3Q. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3R. Gypsum Board* — (As an alternate to Item 3. For use with Item 5H) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied either horizontally or vertically, and screwed to panels with 1-5/8 in. long Type W coarse thread steel

screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

3S. Gypsum Board* — 3/4 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels secured as described in Item 3 with nail length increased to 2 in.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

3T. Wall and Partition Facings and Accessories* — (As an alternate to 5/8 in. thick board as outlined in Item 3) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

4. Steel Corner Fasteners — (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. Batts and Blankets* — (Optional — Required when Item 6A is used (RC-1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.

CERTAINTEED CORP

JOHNS MANVILLE

KNAUF INSULATION LLC

MANSON INSULATION INC

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL — Acoustical Fire Batts

THERMAFIBER INC — Type SAFB, SAFB FF

5A. Fiber, Sprayed* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product. When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS765LD or INS770LD.

U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only

5B. Fiber, Sprayed* — (Not Shown - Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

5C. Batts and Blankets* — Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of wall.

THERMAFIBER INC — Type SAFB, SAFB FF

5D. Glass Fiber Insulation — (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

5E. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 3D) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5F. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCAZ).

AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5G. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D). — As an alternate to Batts and Blankets (Item 5) and Item 5A - Brown

Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.

INTERNATIONAL CELLULOSE CORP — Celbar-RL

5H. Foamed Plastic* — (Optional -For use with Item 3R) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam.

5I. Fiber, Sprayed* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³.

APPLEGATE HOLDINGS L L C — Type 1 SAFE Applegate Fired Rated Material

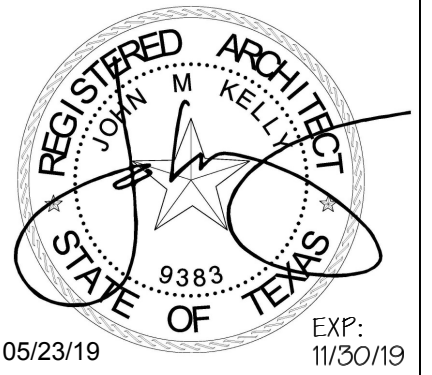
6. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members* — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

DRAWN BY:	DPF, MAR
CHECKED BY:	JMK
PROJECT #:	18-2325



LDG DEVELOPMENT

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(P) 502.609.4940

• ARCHITECTURE • LAND PLANNING • LANDSCAPE DESIGN • CONSTRUCTION ADMINISTRATION •

KELLY GROSSMAN

A R C H I T E C T S L L C

280 ADAMS EIGHT ROAD, SUITE 270, AUSTIN, TEXAS 78746 (P) 512.929.2387
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MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

No.	Revision	Date
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ISSUED FOR PERMIT		
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framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

14B. **Glass Fiber Insulation** — (For use with Item 14A) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.

14C. **Batts and Blankets*** — (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.
THERMAFIBER INC — Type SAFB, SAFB FF

14D. **Adhesive** — (For use with Item 14A) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A).

14E. **Gypsum Board*** — (For use with Item 14A) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 14A). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound, Finish Rating 30 Min.
AMERICAN GYPSUM CO — Type AG-C

CERTAINTED GYPSUM INC — Type FRPC, Type C

CGC INC — Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

14F. **Mineral and Fiber Board** — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 3). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
BLUE RIDGE FIBERBOARD INC — SoundStop

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2019-04-25

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.

- Only products which bear UL's Mark are considered Certified.

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FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. U356

April 15, 2019

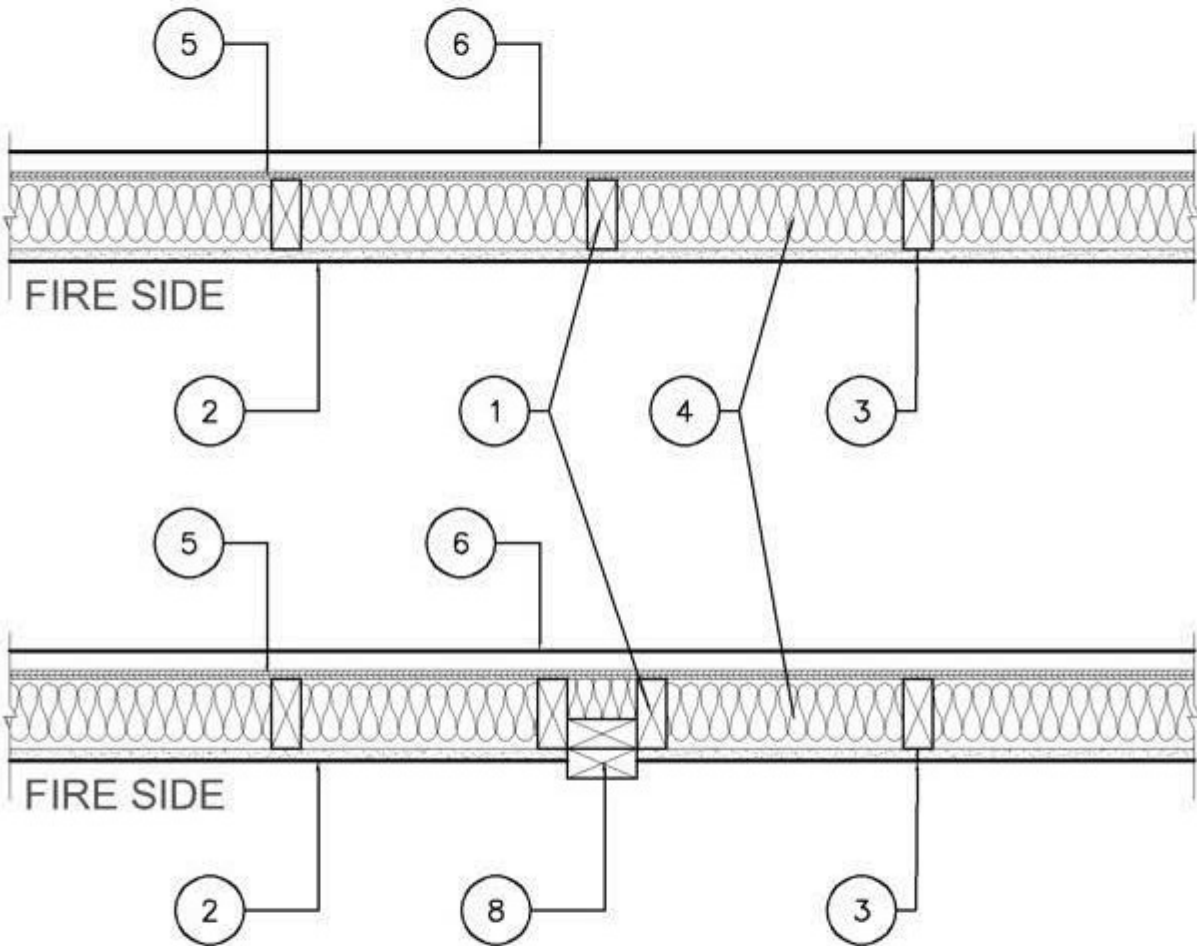
Bearing Wall Rating - 1 Hr Rating Exposed to Fire on Interior Face Only

Bearing Wall Rating — 1 Hr Rating Exposed to Fire on Exterior Face (See Item 6E)

Finish Rating — 23 Min or 25 Min (See Item 2C)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide **BXUV** or **BXUV7**

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Wood Studs** — Nom 2 by 4 in. spaced 16 in. OC with two 2 by 4 in. top and one 2 by 4 in. bottom plates. Studs laterally-braced by wood structural panel sheathing (Item 5). When **Mineral and Fiber Boards*** (Item 5A) are considered as bracing for the studs, the load is restricted to 76% of allowable axial load. Walls effectively fire stopped at top and bottom of wall.

2. **Gypsum Board*** — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 5/8 in. thick, 4 ft wide, applied vertically and nailed to studs and bearing plates 7 in. OC with 6d cement-coated nails, 1-7/8 in. long with 1/4 in. diam head. When Item 7, 7B, 7C, 7D or 7E **Steel Framing Members***, is used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 7A **Steel Framing Members***, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers.

ACADIA DRYWALL SUPPLIES LTD (View Classification) — CKNX.R25370

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CERTAINTED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

2A. **Gypsum Board*** — (As an alternate to Item 2, Not Shown) — Any 5/8 in. thick 4 ft wide gypsum panels that are eligible for use in Design Nos. L501, G512 or U305, supplied by the Classified Companies listed below shown in the **Gypsum Board*** (CKNX) category. Applied vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.

CGC INC

UNITED STATES GYPSUM CO

USG BORAL DRYWALL SFZ LLC

USG MEXICO S A DE C V

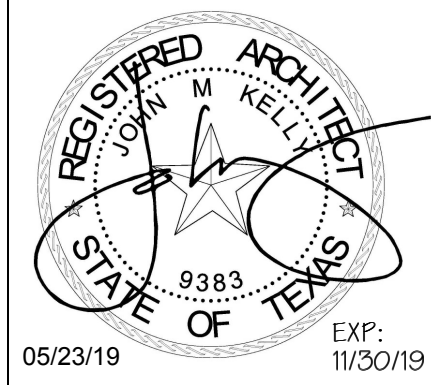
2B. **Gypsum Board*** — (As an alternate to Item 2, Not Shown) — 5/8 in. thick 4 ft wide gypsum panels applied vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.
ACADIA DRYWALL SUPPLIES LTD — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

CERTAINTED GYPSUM INC — Type C, Type X, Type X-1, Easi-Lite Type X-2

GEORGIA-PACIFIC GYPSUM L L C — Types X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, Type X ComfortGuard Sound Deadening Gypsum Board.

DRAWN BY:	DFF, MAR
CHECKED BY:	JMK
PROJECT #:	18-2325



LDG DEVELOPEMENT

1469 SOUTH FOURTH STREET, LOUISVILLE, KY 40208, (P) 502.609.4940

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MOONLIGHT GARDEN

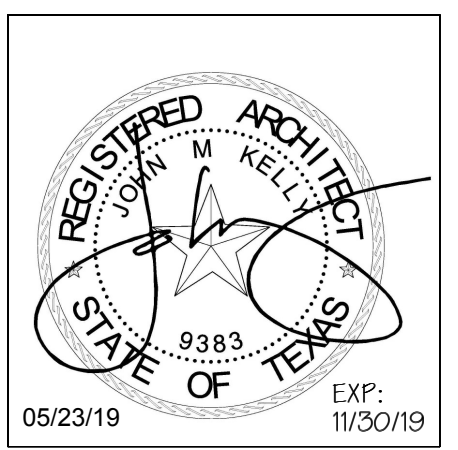
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5/13/2019	U356 - BXUV/U356 - UL Product Spec	5/13/2019	U356 - BXUV/U356 - UL Product Spec	5/13/2019	U356 - BXUV/U356 - UL Product Spec	5/13/2019	U356 - BXUV/U356 - UL Product Spec
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-11, PGS-VWRS.		PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.		See Batts and Blankets* (BKNV) Category in the Building Materials Directory and Batts and Blankets* (BZJZ) Category in the Fire Resistance Directory for names of Classified Companies.		exterior side of wall with 1-1/2 in. long galvanized roofing nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs. As an option a weather resistive barrier may be applied over the Mineral and Fiber Boards.	
THAI GYPSUM PRODUCTS PCL — Type C or Type X		2H. Gypsum Board* — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally. CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX		4A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft ³ . Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft ³ , in accordance with the application instructions supplied with the product. U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INSS41LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only.		6. Exterior Facings — Installed in accordance with the manufacturer's installation instructions. One of the following exterior facings is to be applied over the sheathing: A. Vinyl Siding — Molded Plastic* — Contoured rigid vinyl siding having a flame spread value of 20 or less. See Molded Plastic (BTAT) category in the Building Materials Directory for names of manufacturers.	
GEORGIA-PACIFIC GYPSUM L L C — Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X		2I. Gypsum Board* — (As an alternate to Item 2) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally. AMERICAN GYPSUM CO — Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LightRoc (finish rating 25 min.)		4B. Fiber, Sprayed* — As an alternate to Item 4 and 4A — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 4.58 lb/ft ³ . NU-WOOL CO INC — Cellulose Insulation		B. Particle Board Siding — Hardboard exterior sidings including patterned panel or lap siding. C. Wood Structural Panel or Lap Siding — APA Rated Siding, Exterior, plywood, OSB or composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP-108, including textured, rough sawn, medium density overlay, brushed, grooved and lap siding. D. Cementitious Stucco — Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat. Thickness from 3/8 to 3/4 in., depending on system. E. Brick Veneer — Any type on nom 4 in. wide brick veneer. When brick veneer is used, the rating is applicable with exposure on either face. Brick veneer fastened with corrugated metal wall ties attached over sheathing to wood studs with 8d nail per tie; ties spaced not more than each sixth course of brick and max 32 in. OC horizontally. One in. air space provided between brick veneer and sheathing.	
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-11, PGS-VWRS		NATIONAL GYPSUM CO — Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-G, Type FSK-C, Type FSW-C, Type FSMR-C, Type FSW-6, Type FSL		4C. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft ³ . INTERNATIONAL CELLULOSE CORP — Celbar-LR		F. Exterior Insulation and Finish System (EIFS) — Nom 1 in. Foamed Plastic* insulation bearing the UL Classification Marking, attached over sheathing and finished with coating system, or Portland cement or synthetic stucco systems, in accordance with manufacturer's instructions. See Foamed Plastic (BRYX and CCVV) categories for names of Classified companies.	
2D. Gypsum Board* — (As an alternate to Item 2) — Not to be used with item 7. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC. NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board		2J. Gypsum Board* — (As an alternate to Item 2) - 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread steel screws spaced a max 8 in. OC with the last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum boards are to be installed horizontally. CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1(finish rating 26 min), Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2, Type EGRG or GlasRoc or GlasRoc Sheathing (finish rating 23 min)		4D. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 4) — Spray applied, granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ). AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus		G. Siding — Aluminum or steel siding attached over sheathing to studs. H. Fiber-Cement Siding — Fiber-cement exterior sidings including smooth and patterned panel or lap siding.	
2E Gypsum Board* — (As an alternate to Items 2 through 2D) — Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES.		3. Joints and Fastener Heads — (Not Shown) — Gypsum board joints covered with tape and joint compound. Fastener heads covered with joint compound.		5. Wood Structural Panel Sheathing — Min 7/16 in. thick, 4 ft wide wood structural panels, min grade "C-D" or "Sheathing". Installed with long dimension of sheet (strength axis) or face grain of plywood parallel with or perpendicular to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 6d cement coated box nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs.		I. Wall and Partition Facings and Accessories* — Stone veneer is mortar bonded to a lath, scratch coat and water resistant barrier applied to sheathing, installed in accordance with the manufacturers installation instructions, and meeting the requirements of local code agencies.	
2F. Gypsum Board* — (As an alternate to Item 2) — Not to be used with item 7. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally and fastened to the studs and plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. CERTAINTEED GYPSUM INC — Type SilentFX		4. Batts and Blankets* — Mineral fiber or glass fiber insulation, 3-1/2 in. thick, pressure fit to fill wall cavities between studs and plates. Mineral fiber insulation to be unfaced and to have a min density of 3 pcf. Glass fiber insulation to be faced with aluminum foil or kraft paper and to have a min density of 0.9 pcf (min R-13 thermal insulation rating).		5A. Mineral and Fiber Boards* — As an alternate to Item 5 - Min 1/2 in. thick, 4 ft wide sheathing, installed vertically to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on			
2G. Wall and Partition Facings and Accessories* — (As an alternate to Items 2 through 2F) — Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2.							
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ELDORADO STONE OPERATIONS L L C — Type Eldorado Stone							
6A. Building Units* — As an alternate to Exterior Facing Item 6 — Insulated steel panels, 12 through 42 in. wide. Attached over sheathing through retainer clips to studs or support steel with No. 14 hex head self-tapping screws located at each joint in the concealed lip of the units and spaced in accordance with the structural design requirements. KINGSPAN INSULATED PANELS INC — Types 200, 300, 400, 900, or KS series, 2 through 6 in. thickness; CWP-V, H, 2 through 3 in. nominal thickness or Designwall 2000 or Designwall 4000, 2 and 3 in. nominal thickness.		7B. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWVG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2. b. Steel Framing Members* — Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. PLITEQ INC — Type Genie Clip		7E. Steel Framing Members* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below: a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 2. b. Steel Framing Members* — Used to attach resilient channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip		<ul style="list-style-type: none">Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.Only products which bear UL's Mark are considered Certified.	
7. Steel Framing Members* — (Optional, Not Shown) — Furring Channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWVG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2. b. Steel Framing Members* — Used to attach furring channels (Item 7A) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).		7C. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2. b. Steel Framing Members* — Used to attach furring channels (Item 7Ca) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R		8. Non-Bearing Wall Partition Intersection — (Optional) — Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.		The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.	
7A. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Two layers of gypsum board attached to furring channels as described in Item 2. b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to interior side of studs. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips. KINETICS NOISE CONTROL INC — Type Isomax.		7D. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.		* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.		UL and the UL logo are trademarks of UL LLC © 2019 All Rights Reserved.	
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DRAWN BY:	DPF, MAR
CHECKED BY:	JMK
PROJECT #:	18-2325



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MOONLIGHT GARDEN

8901 NUCKOLLS CROSSING RD, AUSTIN TX 78747

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FAIR HOUSING ACT UNIT CALCULATIONS

STATEMENT

THIS PROJECT HAS BEEN DESIGNED TO MEET THE ACCESSIBILITY REQUIREMENTS OF THE FAIR HOUSING AMENDMENT'S ACT OF 1988 (U.S.C. 3601 et seq.), THE AMERICAN WITH DISABILITIES ACT OF 1990 (42 U.S.C. SECTION 12181), ANSI A117.1, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, AND UFAS WHERE APPLICABLE. THE FAIR HOUSING ACT UNITS AND THE BUILDING CODE ADAPTABLE UNITS ARE ALL DESIGNED TO BE ADAPTED FOR USE BY THE PHYSICALLY HANDICAPPED.

ALL GROUND FLOOR UNITS, OR UNITS ACCESSIBLE BY ELEVATOR, ARE "TYPE B" UNITS (AS REQUIRED BY INTERNATIONAL BUILDING CODE 2012-SECTION 1107.6.2.2.2 AND COMPLIANT WITH ANSI 117.1-2009, CHAPTER 10, SECTION 1004) EXCEPT FOR THE 5% OF UNITS COMPLIANT WITH UFAS SECTION 4.34 WHICH IS REQUIRED BY TDHCA FUNDING (OR ANY FEDERALLY ASSISTED OR OWNED MULTIFAMILY PROJECT) IN UFAS SECTION 4.14(11).

SECTION 3. FAIR HOUSING ACT DESIGN AND CONSTRUCTION REQUIREMENTS

THE REGULATIONS ISSUED BY THE DEPARTMENT AT 24 CFR 100.205 STATE:

A) COVERED MULTIFAMILY DWELLINGS FOR FIRST OCCUPANCY AFTER MARCH 13, 1991 SHALL BE DESIGNED AND CONSTRUCTED TO HAVE AT LEAST ONE BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE UNLESS IT IS IMPRACTICAL TO DO SO BECAUSE OF THE TERRAIN OR UNUSUAL CHARACTERISTICS OF THE SITE. (10-30-92 P.96461) FOR PURPOSES OF THIS SECTION, A COVERED MULTIFAMILY DWELLING SHALL BE DEEMED TO BE DESIGNED AND CONSTRUCTED FOR FIRST OCCUPANCY ON OR BEFORE MARCH 13, 1991, IF THE DWELLING IS OCCUPIED BY THAT DATE, OR IF THE LAST BUILDING PERMIT OR RENEWAL THEREOF FOR THE DWELLING IS ISSUED BY A STATE, COUNTY OR LOCAL GOVERNMENT ON OR BEFORE JUNE 15, 1990. THE BURDEN OF ESTABLISHING IMPRACTICALITY BECAUSE OF TERRAIN OR UNUSUAL SITE CHARACTERISTICS IS ON THE PERSON OR PERSONS WHO DESIGNED OR CONSTRUCTED THE HOUSING FACILITY.

(D) THE APPLICATION OF PARAGRAPH

(C) OF THIS SECTION MAY BE ILLUSTRATED BY THE FOLLOWING EXAMPLES:

EXAMPLE (1): A DEVELOPER PLANS TO CONSTRUCT A 100 UNIT CONDOMINIUM APARTMENT BUILDING WITH ONE ELEVATOR. IN ACCORDANCE WITH PARAGRAPH (A), THE BUILDING HAS AT LEAST ONE ACCESSIBLE ROUTE LEADING TO AN ACCESSIBLE ENTRANCE. ALL 100 UNITS ARE COVERED MULTIFAMILY DWELLING UNITS AND THEY ALL MUST BE DESIGNED AND CONSTRUCTED SO THAT THEY COMPLY WITH THE ACCESSIBILITY REQUIREMENTS OF PARAGRAPH (C) OF THIS SECTION.

(B) THE APPLICATION OF PARAGRAPH (A) OF THIS SECTION MAY BE ILLUSTRATED BY THE FOLLOWING EXAMPLES:

EXAMPLE (1): A REAL ESTATE DEVELOPER PLANS TO CONSTRUCT SIX COVERED MULTIFAMILY DWELLING UNITS ON A SITE WITH A HILLY TERRAIN. BECAUSE OF THE TERRAIN, IT WILL BE NECESSARY TO CLIMB A LONG AND STEEP STAIRWAY IN ORDER TO ENTER THE DWELLINGS. SINCE THERE IS NO PRACTICAL WAY TO PROVIDE AN ACCESSIBLE ROUTE TO ANY OF THE DWELLINGS, ONE NEED NOT BE PROVIDED.

EXAMPLE (2): A REAL ESTATE DEVELOPER PLANS TO CONSTRUCT A BUILDING CONSISTING OF 10 UNITS OF MULTIFAMILY HOUSING ON A WATERFRONT SITE THAT FLOODS FREQUENTLY. BECAUSE OF THIS UNUSUAL CHARACTERISTIC OF THE SITE, THE BUILDER PLANS TO CONSTRUCT THE BUILDING ON STILTS. IT IS CUSTOMARY FOR HOUSING IN THE GEOGRAPHIC AREA WHERE THE SITE IS LOCATED TO BE BUILT ON STILTS. THE HOUSING MAY LAWFULLY BE CONSTRUCTED ON THE PROPOSED SITE ON STILTS EVEN THOUGH THIS MEANS THAT THERE WILL BE NO PRACTICAL WAY TO PROVIDE AN ACCESSIBLE ROUTE TO THE BUILDING ENTRANCE.

EXAMPLE (3): A REAL ESTATE DEVELOPER PLANS TO CONSTRUCT A MULTIFAMILY HOUSING FACILITY ON A PARTICULAR SITE. THE DEVELOPER WOULD LIKE THE FACILITY TO BE BUILT ON THE SITE TO CONTAIN AS MANY UNITS AS POSSIBLE. BECAUSE OF THE CONFIGURATION AND TERRAIN OF THE SITE, IT IS POSSIBLE TO CONSTRUCT A BUILDING WITH 100 UNITS ON THE SITE PROVIDED THE SITE DOES NOT HAVE AN ACCESSIBLE ROUTE LEADING TO THE BUILDING ENTRANCE. IT IS ALSO POSSIBLE TO CONSTRUCT A BUILDING ON THE SITE WITH AN ACCESSIBLE ROUTE LEADING TO THE BUILDING ENTRANCE. HOWEVER, SUCH A BUILDING WOULD HAVE NO MORE THAN 100 DWELLING UNITS. THE BUILDING TO BE CONSTRUCTED ON THE SITE MUST HAVE A BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE BECAUSE IT IS NOT IMPRACTICAL TO PROVIDE SUCH AN ENTRANCE BECAUSE OF THE TERRAIN OR UNUSUAL CHARACTERISTICS OF THE SITE.

(C) ALL COVERED MULTIFAMILY DWELLINGS FOR FIRST OCCUPANCY AFTER MARCH 13, 1991 WITH A BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER THAT--

(1) THE PUBLIC AND COMMON USE AREAS ARE READILY ACCESSIBLE TO AND USABLE BY HANDICAPPED PERSONS;

(2) ALL THE DOORS DESIGNED TO ALLOW PASSAGE INTO AND WITHIN ALL PREMISES ARE SUFFICIENTLY WIDE TO ALLOW PASSAGE BY HANDICAPPED PERSONS IN WHEELCHAIRS; AND

(3) ALL PREMISES WITHIN COVERED MULTIFAMILY DWELLING UNITS CONTAIN THE FOLLOWING FEATURES OF ADAPTABLE DESIGN:

(I) AN ACCESSIBLE ROUTE INTO AND THROUGH THE COVERED DWELLING UNIT;

(II) LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS, AND OTHER ENVIRONMENTAL CONTROLS IN ACCESSIBLE LOCATIONS;

(III) REINFORCEMENTS IN BATHROOM WALLS TO ALLOW LATER INSTALLATION OF GRAB BARS AROUND THE TOILET, TUB, SHOWER, STALL AND SHOWER SEAT, WHERE SUCH FACILITIES ARE PROVIDED; AND

(IV) USABLE KITCHENS AND BATHROOMS SUCH THAT AN INDIVIDUAL IN A WHEELCHAIR CAN MANEUVER ABOUT THE SPACE.

EXAMPLE (2): A DEVELOPER PLANS TO CONSTRUCT 30 GARDEN APARTMENTS IN A THREE STORY BUILDING. THE BUILDING WILL NOT HAVE AN ELEVATOR. THE BUILDING WILL HAVE ONE ACCESSIBLE ENTRANCE WHICH WILL BE ON THE FIRST FLOOR. SINCE THE BUILDING DOES NOT HAVE AN ELEVATOR, ONLY THE GROUND FLOOR UNITS ARE COVERED MULTIFAMILY UNITS. THE GROUND FLOOR IS THE FIRST FLOOR BECAUSE THAT IS THE FLOOR THAT HAS AN ((6-30-00 P.96471))ACCESSIBLE ENTRANCE. ALL OF THE DWELLING UNITS ON THE FIRST FLOOR MUST MEET THE ACCESSIBILITY REQUIREMENTS OF PARAGRAPH (C) OF THIS SECTION AND MUST HAVE ACCESS TO AT LEAST ONE OF EACH TYPE OF PUBLIC OR COMMON USE AREA AVAILABLE FOR RESIDENTS IN THE BUILDING.

(E) COMPLIANCE WITH THE APPROPRIATE REQUIREMENTS OF ANSI 117.1 SUFFICES TO SATISFY THE REQUIREMENTS OF PARAGRAPH (C)(3) OF THIS SECTION.

(F) COMPLIANCE WITH A DULY ENACTED LAW OF A STATE OR UNIT OF GENERAL LOCAL GOVERNMENT THAT INCLUDES THE REQUIREMENTS OF PARAGRAPHS (A) AND (C) OF THIS SECTION SATISFIES THE REQUIREMENTS OF PARAGRAPHS (A) AND (C) OF THIS SECTION.

(G)(1) IT IS THE POLICY OF HUD TO ENCOURAGE STATES AND UNITS OF GENERAL LOCAL GOVERNMENT TO INCLUDE, IN THEIR EXISTING PROCEDURES FOR THE REVIEW AND APPROVAL OF NEWLY CONSTRUCTED COVERED MULTIFAMILY DWELLINGS, DETERMINATIONS AS TO WHETHER THE DESIGN AND CONSTRUCTION OF SUCH DWELLINGS ARE CONSISTENT WITH PARAGRAPHS (A) AND (C) OF THIS SECTION.

(2) A STATE OR UNIT OF GENERAL LOCAL GOVERNMENT MAY REVIEW AND APPROVE NEWLY CONSTRUCTED MULTIFAMILY DWELLINGS FOR THE PURPOSE OF MAKING DETERMINATIONS AS TO WHETHER THE REQUIREMENTS OF PARAGRAPHS (A) AND (C) OF THIS SECTION ARE MET.

(H) DETERMINATIONS OF COMPLIANCE OR NONCOMPLIANCE BY A STATE OR A UNIT OF GENERAL LOCAL GOVERNMENT UNDER PARAGRAPH (F) OR (G) OF THIS SECTION ARE NOT CONCLUSIVE IN ENFORCEMENT PROCEEDINGS UNDER THE FAIR HOUSING AMENDMENTS ACT.

(I) THIS SUBPART DOES NOT INVALIDATE OR LIMIT ANY LAW OF A STATE OR POLITICAL SUBDIVISION OF A STATE THAT REQUIRES DWELLINGS TO BE DESIGNED AND CONSTRUCTED IN A MANNER THAT AFFORDS HANDICAPPED PERSONS GREATER ACCESS THAN IS REQUIRED BY THIS SUBPART.

[CODIFIED TO 24 C.F.R. § 100.205]

[SECTION 100.205 AMENDED AT 56 FED. REG. 11665, MARCH 20, 1991, EFFECTIVE APRIL 19, 1991]

FAIR HOUSING ACT ACCESSIBILITY GUIDELINES

BASIC COMPONENTS FOR ACCESSIBLE AND USABLE PUBLIC AND COMMON USE AREAS OR FACILITIES		
ACCESSIBLE ELEMENT OR SPACE	ANSI A117.1 SECTION	APPLICATION
1. ACCESSIBLE ROUTE(S)	4.3	WITHIN THE BOUNDRY OF THE SITE: (A) FROM PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING SPACES, ACCESSIBLE PASSENGER LOADING ZONES, AND PUBLIC STREETS OR SIDEWALKS TO ACCESSIBLE BUILDING ENTRANCES (SUBJECT TO SITE CONSIDERATIONS DESCRIBES IN SECTION 5). (B) CONNECTING ACCESSIBLE BUILDINGS, FACILITIES, ELEMENTS AND SPACES THAT ARE ON THE SAME SITE. ON-GRADE WALKS OR PATHS BETWEEN SEPARATE BUILDINGS WITH COVERED MULTIFAMILY DWELLINGS, WHILE NOT REQUIRED, SHOULD BE ACCESSIBLE UNLESS THE SLOPE OF FINISH GRADE EXCEEDS 8.33% AT ANY POINT ALONG THE ROUTE. HANDRAILS ARE NOT REQUIRED ON THESE ACCESSIBLE WALKS. (C) CONNECTING ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ACCESSIBLE SPACES AND ELEMENTS WITHIN THE BUILDING OR FACILITY, INCLUDING ADAPTABLE DWELLING UNITS. (D) WHERE SITE OR LEGAL CONSTRAINTS PREVENT A ROUTE ACCESSIBLE TO WHEELCHAIR USERS BETWEEN COVERED MULTIFAMILY DWELLINGS AND PUBLIC OR COMMON-USE FACILITIES ELSEWHERE ON THE SITE, AN ACCEPTABLE ALTERNATIVE IS THE PROVISION OF ACCESS VIA A VEHICULAR ROUTE SO LONG AS THERE IS ACCESSIBLE PARKING ON AN ACCESSIBLE ROUTE TO AT LEAST 2% OF COVERED DWELLING UNITS, AND NECESSARY SITE PROVISIONS SUCH AS PARKING AND CURB CUTS ARE AVAILABLE AT THE PUBLIC OR COMMON USE FACILITY.
2. PROTRUDING OBJECTS	4.4	ACCESSIBLE ROUTES OR MANEUVERING SPACE INCLUDING , BUT NOT LIMITED TO HALLS, CORRIDORS, PASSAGEWAYS, OR AISLES.
3. GROUND AND FLOOR SURFACE TREATMENTS	4.5	ACCESSIBLE ROUTES, ROOMS AND SPACES, INCLUDING FLOORS, WALKS, RAMPS, STAIRS, AND CURB RAMPS.
4. PARKING AND PASSENGER LOADING ZONES	4.6	IF PROVIDED AT THE SITE, DESIGNATED ACCESSIBLE PARKING AT THE DWELLING UNIT ON REQUEST OF RESIDENTS WITH HANDICAPS, ON THE SAME TERMS AND WITH THE FULL RANGE OF CHOICES (E.G. SURFACE PARKING OR GARAGE) THAT ARE PROVIDED FOR OTHER RESIDENTS OF THE PROJECT, WITH ACCESSIBLE PARKING ON A ROUTE ACCESSIBLE TO WHEELCHAIRS FOR AT LEAST 2% OF THE COVERED DWELLING UNITS: ACCESSIBLE VISITOR PARKING SUFFICIENT TO PROVIDE ACCESS TO GRADE-LEVEL ENTRANCES OF COVERED MULTIFAMILY DWELLINGS; AND ACCESSIBLE PARKING AT FACILITIES (E.G. SWIMMING POOLS) THAT SERVE ACCESSIBLE BUILDINGS.
5. CURB RAMPS	4.7	ACCESSIBLE ROUTES CROSSING CURBS.
6. RAMPS	4.8	ACCESSIBLE ROUTES WITH SLOPES GREATER THAN 1:20.
7. STAIRS	4.9	STAIRS ON ACCESSIBLE ROUTES CONNECTING LEVELS NOT CONNECTED BY AN ELEVATOR.
8. ELEVATOR	4.10	IF PROVIDED.
9. PLATFORM LIFT	4.11	MAY BE USED IN LIEU OF AN ELEVATOR OR RAMP UNDER CERTAIN CONDITIONS.
10. DRINKINGFOUNTAINS AND WATER COOLERS	4.15	FIFTY PERCENT OF FOUNTAINS AND COOLERS ON EACH FLOOR, OR AT LEAST ONE, IF PROVIDED IN THE FACILITY OR THE SITE.
11. TOILET ROOMS AND BATHING FACILITIES (INCLUDING WATER CLOSETS, TOILET ROOMS AND STALLS, URINALS, LAVATORIES AND MIRRORS, BATHTUBS, SHOWER STALLS, AND SINKS.)	4.22	WHERE PROVIDED IN PUBLIC-USE AND COMMON-USE FACILITIES, AT LEAST ONE ON EACH FIXTURE PROVIDED PER ROOM.
12. SEATING, TABLES, OR WORK SURFACES	4.30	IF PROVIDED IN ACCESSIBLE SPACES, AT LEAST ONE OF EACH TYPE PROVIDED
13. PLACES OF ASSEMBLY	4.31	IF PROVIDED IN THE FACILITY OR AT THE SITE.
14. COMMON-USE SPACES AND FACILITIES (INCLUDING SWIMMING POOLS, PLAYGROUNDS, ENTRANCES, RENTAL OFFICES, LOBBIES, ELEVATORS, MAILBOX AREAS, LOUNGES, HALLS AND CORRIDORS, AND THE LIKE.)	4.1 through 4.30	IF PROVIDED IN THE FACILITY OR AT THE SITE. (A) WHERE MULTIPLE RECREATIONAL FACILITIES (E.G. TENNIS COURTS) ARE PROVIDED SUFFICIENT ACCESSIBLE FACILITIES OF EACH TYPE EQUITABLE OPPORTUNITY FOR USE BY PERSONS WITH HANDICAPS. (B) WHERE PRACTICAL, ACCESS TO ALL OR A PORTION OF NATURE TRAILS AND JOGGING PATHS
15. LAUNDRY ROOMS	4.32.6	IF PROVIDED IN THE FACILITY OR AT THE SITE, AT LEAST ONE OF EACH TYPE OF APPLIANCE PROVIDED IN EACH LAUNDRY AREA, EXCEPT THAT LAUNDRY ROOMS SERVING COVERED MULTIFAMILY DWELLINGS WOULD NOT BE REQUIRED TO HAVE FRONT-LOADING WASHERS IN ORDER TO MEET THE REQUIREMENTS OF §100.205(C) (1). (WHERE FRONT LOADING WASHERS ARE NOT PROVIDED, MANAGEMENT WILL BE EXPECTED TO PROVIDE ASSISTIVE DEVICES ON REQUEST IF NECESSARY TO PERMIT A REGIDENT TO USE A TOP LOADING WASHER.)

Section 5. Guidelines

REQUIREMENT 1. ACCESSIBLE BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE.

UNDER SECTION 100.205(A), COVERED MULTIFAMILY DWELLINGS SHALL BE DESIGNED AND CONSTRUCTED TO HAVE AT LEAST ONE BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE, UNLESS IT IS IMPRACTICAL TO DO SO BECAUSE OF TERRAIN OR UNUSUAL CHARACTERISTICS OF THE SITE.

GUIDELINE

(1) BUILDING ENTRANCE. EACH BUILDING ON A SITE SHALL HAVE AT LEAST ONE BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE UNLESS PROHIBITED BY THE TERRAIN, AS PROVIDED IN PARAGRAPHS (2)(A)(I) OR (2)(A)(II), OR UNUSUAL CHARACTERISTICS OF THE SITE, AS PROVIDED IN PARAGRAPH (2)(B). THIS GUIDELINE APPLIES BOTH TO A SINGLE BUILDING ON A SITE AND TO MULTIPLE BUILDINGS ON A SITE.

(A) SEPARATE GROUND FLOOR UNIT ENTRANCES. WHEN A GROUND FLOOR UNIT OF A BUILDING HAS A SEPARATE ENTRANCE, EACH SUCH GROUND FLOOR UNIT SHALL BE SERVED BY AN ACCESSIBLE ROUTE, EXCEPT FOR ANY UNIT WHERE THE TERRAIN OR UNUSUAL CHARACTERISTICS OF THE SITE PROHIBIT THE PROVISION OF AN ACCESSIBLE ROUTE TO THE ENTRANCE OF THAT UNIT.

(B) MULTIPLE ENTRANCES. ONLY ONE ENTRANCE IS REQUIRED TO BE ACCESSIBLE TO ANY ONE GROUND FLOOR OF A BUILDING, EXCEPT IN CASES WHERE AN INDIVIDUAL DWELLING UNIT HAS A SEPARATE EXTERIOR ENTRANCE, OR WHERE THE BUILDING CONTAINS CLUSTERS OF DWELLING UNITS, WITH EACH CLUSTER SHARING A DIFFERENT EXTERIOR ENTRANCE. IN THESE CASES, MORE THAN ONE ENTRANCE MAY BE REQUIRED TO BE ACCESSIBLE. AS DETERMINED BY ANALYSIS OF THE SITE. IN EVERY CASE, THE ACCESSIBLE ENTRANCE SHOULD BE ON AN ACCESSIBLE ROUTE TO THE COVERED DWELLING UNIT(S) IT SERVES.

(2) SITE IMPRACTICALITY. COVERED MULTIFAMILY DWELLINGS WITH ELEVATORS SHALL BE DESIGNED AND CONSTRUCTED TO PROVIDE AT LEAST ONE ACCESSIBLE ENTRANCE ON AN ACCESSIBLE ROUTE, REGARDLESS OF TERRAIN OR UNUSUAL CHARACTERISTICS OF THE SITE. COVERED MULTIFAMILY DWELLINGS WITHOUT ELEVATORS SHALL BE DESIGNED AND CONSTRUCTED TO PROVIDE AT LEAST ONE ACCESSIBLE ENTRANCE ON AN ACCESSIBLE ROUTE UNLESS TERRAIN OR UNUSUAL CHARACTERISTICS OF THE SITE ARE SUCH THAT THE FOLLOWING CONDITIONS ARE FOUND TO EXIST:

A SITE WITH A SINGLE BUILDING HAVING A COMMON ENTRANCE FOR ALL UNITS MAY BE ANALYZED ONLY AS DESCRIBED IN PARAGRAPH (I).

ALL OTHER SITES, INCLUDING A SITE WITH A SINGLE BUILDING HAVING MULTIPLE ENTRANCES SERVING EITHER INDIVIDUAL DWELLING UNITS OR CLUSTERS OF DWELLING UNITS, MAY BE ANALYZED USING THE METHODOLOGY IN EITHER PARAGRAPH (I) OR PARAGRAPH (II). FOR THESE SITES FOR WHICH EITHER TEST IS APPLICABLE, REGARDLESS OF WHICH TEST IS SELECTED, AT LEAST 20% OF THE TOTAL GROUND FLOOR UNITS IN NONELEVATOR BUILDINGS, ON ANY SITE, MUST COMPLY WITH THE GUIDELINES.

INDIVIDUAL BUILDING TEST. IT IS IMPRACTICAL TO PROVIDE AN ACCESSIBLE ENTRANCE SERVED BY AN ACCESSIBLE ROUTE WHEN THE TERRAIN OF THE SITE IS SUCH THAT:

(I) ALL THE SLOPES OF THE UNDISTURBED SITE MEASURED BETWEEN THE PLANNED ENTRANCE AND ALL VEHICULAR OR PEDESTRIAN ARRIVAL POINTS WITHIN 50 FEET OF THE PLANNED ENTRANCE EXCEED 10 PERCENT; AND

(B) THE SLOPES OF THE PLANNED FINISHED GRADE MEASURED BETWEEN THE ENTRANCE AND ALL VEHICULAR OR PEDESTRIAN ARRIVAL POINTS WITHIN 50 FEET OF THE PLANNED ENTRANCE ALSO EXCEED 10 PERCENT.

IF THERE ARE NO VEHICULAR OR PEDESTRIAN ARRIVAL POINTS WITHIN 50 FEET OF THE PLANNED ENTRANCE, THE SLOPE FOR THE PURPOSES OF THIS PARAGRAPH (I) WILL BE MEASURED TO THE CLOSEST VEHICULAR OR PEDESTRIAN ARRIVAL POINT.

FOR PURPOSES OF THESE GUIDELINES, VEHICULAR OR PEDESTRIAN ARRIVAL POINTS INCLUDE PUBLIC OR RESIDENT PARKING AREAS; PUBLIC TRANSPORTATION STOPS; PASSENGER LOADING ZONES; AND PUBLIC STREETS OR SIDEWALKS. TO DETERMINE SITE IMPRACTICALITY, THE SLOPE WOULD BE MEASURED AT GROUND LEVEL FROM THE POINT OF THE PLANNED ENTRANCE ON A STRAIGHT LINE TO (I) EACH VEHICULAR OR PEDESTRIAN ARRIVAL POINT THAT IS WITHIN 50 FEET OF THE PLANNED ENTRANCE, OR (II) IF THERE ARE NO VEHICULAR OR PEDESTRIAN ARRIVAL POINTS WITHIN THAT SPECIFIED AREA, THE VEHICULAR OR PEDESTRIAN ARRIVAL POINT CLOSEST TO THE PLANNED ENTRANCE. IN THE CASE OF SIDEWALKS, THE CLOSEST POINT TO THE ENTRANCE WILL BE WHERE A PUBLIC SIDEWALK ENTERING THE SITE INTERSECTS WITH THE SIDEWALK TO THE ENTRANCE. IN THE CASE OF RESIDENT PARKING AREAS, THE CLOSEST POINT TO THE PLANNED ENTRANCE WILL BE MEASURED FROM THE ENTRY POINT TO THE PARKING AREA THAT IS LOCATED CLOSEST TO THE PLANNED ENTRANCE.

(II) SITE ANALYSIS TEST. ALTERNATIVELY, FOR A SITE HAVING MULTIPLE BUILDINGS, OR A SITE WITH A SINGLE BUILDING WITH MULTIPLE ENTRANCES, IMPRACTICALITY OF PROVIDING AN ACCESSIBLE ENTRANCE SERVED BY AN ACCESSIBLE ROUTE CAN BE ESTABLISHED BY THE FOLLOWING STEPS:

(A) THE PERCENTAGE OF THE TOTAL BUILDABLE AREA OF THE UNDISTURBED SITE WITH A NATURAL GRADE LESS THAN 10% SLOPE SHALL BE CALCULATED. THE ANALYSIS OF THE EXISTING SLOPE (BEFORE GRADING) SHALL BE DONE ON A TOPOGRAPHIC SURVEY WITH TWO FOOT (2) CONTOUR INTERVALS WITH SLOPE DETERMINATION MADE BETWEEN EACH SUCCESSIVE INTERVAL. THE ACCURACY OF THE SLOPE ANALYSIS SHALL BE CERTIFIED BY A PROFESSIONAL LICENSED ENGINEER, LANDSCAPE ARCHITECT, ARCHITECT OR SURVEYOR.

(B) TO DETERMINE THE PRACTICALITY OF PROVIDING ACCESSIBILITY TO PLANNED MULTIFAMILY DWELLINGS BASED ON THE TOPOGRAPHY OF THE EXISTING NATURAL TERRAIN, THE MINIMUM PERCENTAGE OF GROUND FLOOR UNITS TO BE MADE ACCESSIBLE SHOULD EQUAL THE PERCENTAGE OF THE TOTAL BUILDABLE AREA (NOT INCLUDING FLOODPLAINS, WETLANDS, OR OTHER RESTRICTED USE AREAS) OF THE UNDISTURBED SITE THAT HAS AN EXISTING NATURAL GRADE OF LESS THAN 10% SLOPE.

(C) IN ADDITION TO THE PERCENTAGE ESTABLISHED IN PARAGRAPH (B), ALL GROUND FLOOR UNITS IN A BUILDING, OR GROUND FLOOR UNITS SERVED BY A PARTICULAR ENTRANCE, SHALL BE MADE ACCESSIBLE IF THE ENTRANCE TO THE UNITS IS ON AN ACCESSIBLE ROUTE, DEFINED AS A WALKWAY WITH A SLOPE BETWEEN THE PLANNED ENTRANCE AND A PEDESTRIAN OR VEHICULAR ARRIVAL POINT THAT IS NO GREATER THAN 8.33%.

(B) SITE IMPRACTICALITY DUE TO UNUSUAL CHARACTERISTICS. UNUSUAL CHARACTERISTICS INCLUDE SITES LOCATED IN A FEDERALLY-DESIGNATED FLOODPLAIN OR COASTAL HIGH-HAZARD AREA AND SITES SUBJECT TO OTHER SIMILAR REQUIREMENTS OF LAW OR CODE THAT THE LOWEST FLOOR OR THE LOWEST STRUCTURAL MEMBER OF THE LOWEST FLOOR MUST BE RAISED TO A SPECIFIED LEVEL AT OR ABOVE THE BASE FLOOD ELEVATION. AN ACCESSIBLE ROUTE TO A BUILDING ENTRANCE IS IMPRACTICAL DUE TO UNUSUAL CHARACTERISTICS OF THE SITE WHEN:

(I) THE UNUSUAL SITE CHARACTERISTICS RESULT IN A DIFFERENCE IN FINISHED GRADE ELEVATION EXCEEDING 30 INCHES AND 10 PERCENT MEASURED BETWEEN AN ENTRANCE AND ALL VEHICULAR OR PEDESTRIAN ARRIVAL POINTS WITHIN 50 FEET OF THE PLANNED ENTRANCE; OR

(II) IF THERE ARE NO VEHICULAR OR PEDESTRIAN ARRIVAL POINTS WITHIN 50 FEET OF THE PLANNED ENTRANCE, THE UNUSUAL CHARACTERISTICS RESULT IN A DIFFERENCE IN FINISHED GRADE ELEVATION EXCEEDING 30 INCHES AND 10 PERCENT MEASURED BETWEEN AN ENTRANCE AND THE CLOSEST VEHICULAR OR PEDESTRIAN ARRIVAL POINT.

(3) EXCEPTIONS TO SITE IMPRACTICALITY . REGARDLESS OF SITE CONSIDERATIONS DESCRIBED IN PARAGRAPHS (1) AND (2), AN ACCESSIBLE ENTRANCE ON AN ACCESSIBLE ROUTE IS PRACTICAL WHEN:

(A) THERE IS AN ELEVATOR CONNECTING THE PARKING AREA WITH THE DWELLING UNITS ON A GROUND FLOOR. (IN THIS CASE, THOSE DWELLING UNITS ON THE GROUND FLOOR SERVED BY AN ELEVATOR, AND AT LEAST ONE OF EACH TYPE OF PUBLIC AND COMMON USE AREAS, WOULD BE SUBJECT TO THESE GUIDELINES.) HOWEVER:

(I) WHERE A BUILDING ELEVATOR IS PROVIDED ONLY AS A MEANS OF CREATING AN ACCESSIBLE ROUTE TO DWELLING UNITS ON A GROUND FLOOR, THE BUILDING IS NOT CONSIDERED AN ELEVATOR BUILDING FOR PURPOSES OF THESE GUIDELINES; HENCE, ONLY THE GROUND FLOOR DWELLING UNITS WOULD BE COVERED.

(II) IF THE BUILDING ELEVATOR IS PROVIDED AS A MEANS OF ACCESS TO DWELLING UNITS OTHER THAN DWELLING UNITS ON A GROUND FLOOR, THEN THE BUILDING IS AN ELEVATOR BUILDING WHICH IS A COVERED MULTIFAMILY DWELLING, AND THE ELEVATOR IN THAT BUILDING MUST PROVIDE ACCESSIBILITY TO ALL DWELLING UNITS IN THE BUILDING, REGARDLESS OF THE SLOPE OF THE NATURAL TERRAIN OR

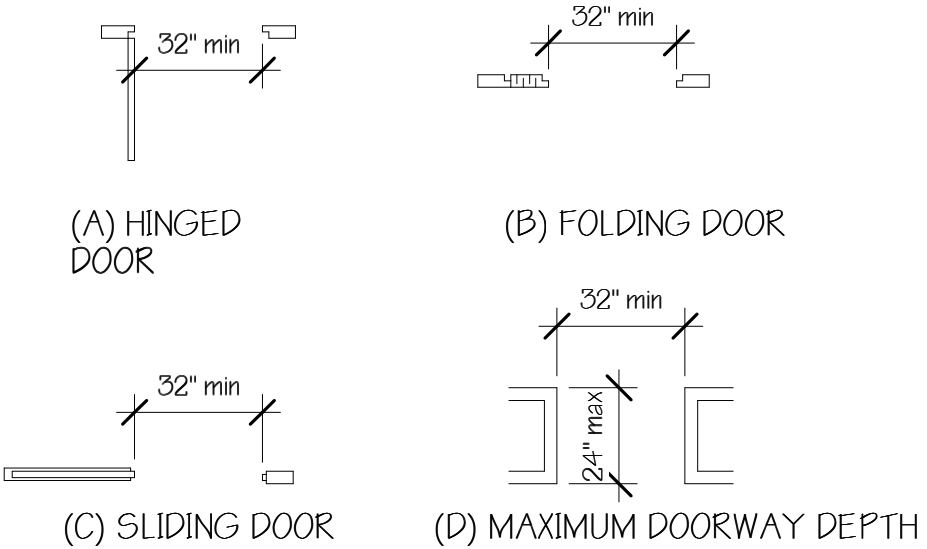
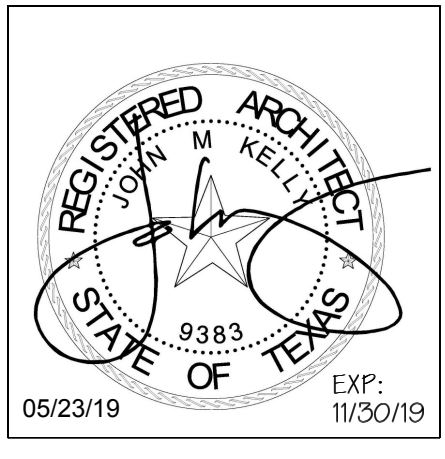


FIG. 1 - CLEAR DOORWAY WIDTH AND DEPTH

DRAWN BY:	DPF, MAR
CHECKED BY:	JMK
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MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

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FAIR HOUSING ACT ACCESSIBILITY GUIDELINES
(CONTINUED)

SUMMARY: THIS DOCUMENT PRESENTS GUIDELINES ADOPTED BY THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT TO PROVIDE BUILDERS AND DEVELOPERS WITH TECHNICAL GUIDANCE ON HOW TO COMPLY WITH THE SPECIFIC ACCESSIBILITY REQUIREMENTS OF THE FAIR HOUSING AMENDMENTS ACT OF 1988.

- (3) EXCEPTIONS TO SITE IMPRACTICALITY, REGARDLESS OF SITE CONSIDERATIONS DESCRIBED IN PARAGRAPHS (1) AND (2), AN ACCESSIBLE ENTRANCE ON AN ACCESSIBLE ROUTE IS PRACTICAL WHEN:
- (A) THERE IS AN ELEVATOR CONNECTING THE PARKING AREA WITH THE DWELLING UNITS ON A GROUND FLOOR. (IN THIS CASE, THOSE DWELLING UNITS ON THE GROUND FLOOR SERVED BY AN ELEVATOR, AND AT LEAST ONE OF EACH TYPE OF PUBLIC AND COMMON USE AREAS, WOULD BE SUBJECT TO THESE GUIDELINES.) HOWEVER:
- (I) WHERE A BUILDING ELEVATOR IS PROVIDED ONLY AS A MEANS OF CREATING AN ACCESSIBLE ROUTE TO DWELLING UNITS ON A GROUND FLOOR, THE BUILDING IS NOT CONSIDERED AN ELEVATOR BUILDING FOR PURPOSES OF THESE GUIDELINES; HENCE, ONLY THE GROUND FLOOR DWELLING UNITS WOULD BE COVERED.
- (II) IF THE BUILDING ELEVATOR IS PROVIDED AS A MEANS OF ACCESS TO DWELLING UNITS OTHER THAN DWELLING UNITS ON A GROUND FLOOR, THEN THE BUILDING IS AN ELEVATOR BUILDING WHICH IS A COVERED MULTIFAMILY DWELLING, AND THE ELEVATOR IN THAT BUILDING MUST PROVIDE ACCESSIBILITY TO ALL DWELLING UNITS IN THE BUILDING, REGARDLESS OF THE SLOPE OF THE NATURAL TERRAIN OR
- (B) AN ELEVATED WALKWAY IS PLANNED BETWEEN A BUILDING ENTRANCE AND A VEHICULAR OR PEDESTRIAN ARRIVAL POINT AND THE PLANNED WALKWAY HAS A SLOPE NO GREATER THAN 10 PERCENT.

- (4) ACCESSIBLE ENTRANCE. AN ENTRANCE THAT COMPLIES WITH ANSI 4.14 MEETS SECTION 100.205(A).
- (5) ACCESSIBLE ROUTE. AN ACCESSIBLE ROUTE THAT COMPLIES WITH ANSI 4.3 WOULD MEET SECTION 100.205(A), IF THE SLOPE OF THE FINISHED GRADE BETWEEN COVERED MULTIFAMILY DWELLINGS AND A PUBLIC OR COMMON USE FACILITY (INCLUDING PARKING) EXCEEDS 8.33%, OR WHERE OTHER PHYSICAL BARRIERS (NATURAL OR MANMADE) OR LEGAL RESTRICTIONS, ALL OF WHICH ARE OUTSIDE THE CONTROL OF THE OWNER, PREVENT THE INSTALLATION OF AN ACCESSIBLE PEDESTRIAN ROUTE, AN ACCEPTABLE ALTERNATIVE IS TO PROVIDE ACCESS VIA A VEHICULAR ROUTE, SO LONG AS NECESSARY SITE PROVISIONS SUCH AS PARKING SPACES AND CURB RAMPS ARE PROVIDED AT THE PUBLIC OR COMMON USE FACILITY.

REQUIREMENT 2. ACCESSIBLE AND USABLE PUBLIC AND COMMON USE AREAS.

SECTION 100.205(C)(1) PROVIDES THAT COVERED MULTIFAMILY DWELLINGS WITH A BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE SHALL BE DESIGNED IN SUCH A MANNER THAT THE PUBLIC AND COMMON USE AREAS ARE READILY ACCESSIBLE TO AND USABLE BY HANDICAPPED PERSONS.

GUIDELINE

THE FOLLOWING CHART IDENTIFIES THE PUBLIC AND COMMON USE AREAS THAT SHOULD BE MADE ACCESSIBLE, CITES THE APPROPRIATE SECTION OF THE ANSI STANDARD, AND DESCRIBES THE APPROPRIATE APPLICATION OF THE SPECIFICATIONS, INCLUDING MODIFICATIONS TO THE REFERENCED STANDARD.

REQUIREMENT 3. USABLE DOORS.

SECTION 100.205(C)(2) PROVIDES THAT COVERED MULTIFAMILY DWELLINGS WITH A BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE SHALL BE DESIGNED IN SUCH A MANNER THAT ALL THE DOORS DESIGNED TO ALLOW PASSAGE INTO AND WITHIN ALL PREMISES ARE SUFFICIENTLY WIDE TO ALLOW PASSAGE BY HANDICAPPED PERSONS IN WHEELCHAIRS.

GUIDELINE

SECTION 100.205(C)(2) WOULD APPLY TO DOORS THAT ARE A PART OF AN ACCESSIBLE ROUTE IN THE PUBLIC AND COMMON USE AREAS OF MULTIFAMILY DWELLINGS AND TO DOORS INTO AND WITHIN INDIVIDUAL DWELLING UNITS.

- (1) ON ACCESSIBLE ROUTES IN PUBLIC AND COMMON USE AREAS, AND FOR PRIMARY ENTRY DOORS TO COVERED UNITS, DOORS THAT COMPLY WITH ANSI 4.13 WOULD MEET THIS REQUIREMENT.
- (2) WITHIN INDIVIDUAL DWELLING UNITS, DOORS INTENDED FOR USER PASSAGE THROUGH THE UNIT WHICH HAVE A CLEAR OPENING OF AT LEAST 32 INCHES NOMINAL WIDTH WHEN THE DOOR IS OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WOULD MEET THIS REQUIREMENT. (SEE FIG. 1 (A), (B), AND (C).) OPENINGS MORE THAN 24 INCHES IN DEPTH ARE NOT CONSIDERED DOORWAYS. (SEE FIG. 1(D).)
- NOTE:
- A 34-INCH DOOR, HUNG IN THE STANDARD MANNER, PROVIDES AN ACCEPTABLE NOMINAL 32-INCH CLEAR OPENING. THIS DOOR CAN BE ADAPTED TO PROVIDE A WIDER OPENING BY USING OFFSET HINGES, BY REMOVING LOWER PORTIONS OF THE DOOR STOP, OR BOTH. POCKET OR SLIDING DOORS ARE ACCEPTABLE DOORS IN COVERED DWELLING UNITS AND HAVE THE ADDED ADVANTAGE OF NOT IMPINGING ON CLEAR FLOOR SPACE IN SMALL ROOMS. THE NOMINAL 32-INCH CLEAR OPENING PROVIDED BY A STANDARD SIX-FOOT SLIDING PATIO DOOR ASSEMBLY IS ACCEPTABLE.

REQUIREMENT 4. ACCESSIBLE ROUTE INTO AND THROUGH THE COVERED DWELLING UNIT.

SECTION 100.205(C)(3)(I) PROVIDES THAT ALL COVERED MULTIFAMILY DWELLINGS WITH A BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER THAT ALL PREMISES WITHIN COVERED MULTIFAMILY DWELLING UNITS CONTAIN AN ACCESSIBLE ROUTE INTO AND THROUGH THE COVERED DWELLING UNIT.

GUIDELINE

ACCESSIBLE ROUTES INTO AND THROUGH DWELLING UNITS WOULD MEET SECTION 100.205(C)(3)(I) IF:

- (1) A MINIMUM CLEAR WIDTH OF 36 INCHES IS PROVIDED.
- (2) IN SINGLE-STORY DWELLING UNITS, CHANGES IN LEVEL WITHIN THE DWELLING UNIT WITH HEIGHTS BETWEEN 1/4 INCH AND 1/2 INCH ARE BEYOND WITH A SLOPE GREATER THAN 1:2, EXCEPT FOR DESIGN FEATURES, SUCH AS A LOFT OR AREA ON A DIFFERENT LEVEL, WITHIN A ROOM (E.G., A SUNKEN LIVING ROOM), CHANGES IN LEVEL GREATER THAN 1/2 INCH ARE RAMPED OR HAVE OTHER MEANS OF ACCESS, WHERE A SINGLE STORY DWELLING UNIT HAS SPECIAL DESIGN FEATURES, ALL PORTIONS OF THE SINGLE-STORY UNIT, EXCEPT THE LOFT OR THE SUNKEN OR RAISED AREA, ARE ON AN ACCESSIBLE ROUTE; AND

- (A) IN SINGLE-STORY DWELLING UNITS WITH LOFTS, ALL SPACES OTHER THAN THE LOFT ARE ON AN ACCESSIBLE ROUTE.
- (B) DESIGN FEATURES SUCH AS SUNKEN OR RAISED FUNCTIONAL AREAS DO NOT INTERRUPT THE ACCESSIBLE ROUTE THROUGH THE REMAINDER OF THE DWELLING UNIT.

- (3) IN MULTISTORY DWELLING UNITS IN BUILDINGS WITH ELEVATORS, THE STORY OF THE UNIT THAT IS SERVED BY THE BUILDING ELEVATOR (A) IS THE PRIMARY ENTRY TO THE UNIT; (B) COMPLIES WITH REQUIREMENTS 2 THROUGH 7 WITH RESPECT TO THE ROOMS LOCATED ON THE ENTRY/ACCESSIBLE FLOOR; AND (C) CONTAINS A BATHROOM OR POWDER ROOM WHICH COMPLIES WITH REQUIREMENT 7. (NOTE: MULTISTORY DWELLING UNITS IN NON-ELEVATOR BUILDINGS ARE NOT COVERED DWELLING UNITS BECAUSE, IN SUCH CASES, THERE IS NO GROUND FLOOR UNIT.)
- (4) EXCEPT AS NOTED IN PARAGRAPHS (5) AND (6) BELOW, THRESHOLDS AT EXTERIOR DOORS, INCLUDING SLIDING DOOR TRACKS, ARE NO HIGHER THAN 3/4 INCH THRESHOLDS AND CHANGES IN LEVEL AT THESE LOCATIONS ARE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
- (5) EXTERIOR DECK, PATIO, OR BALCONY SURFACES ARE NO MORE THAN 1/2 INCH BELOW THE FLOOR LEVEL OF THE INTERIOR OF THE DWELLING UNIT, UNLESS THEY ARE CONSTRUCTED OF IMPERVIOUS MATERIAL SUCH AS CONCRETE, BRICK OR FLAGSTONE. IN SUCH CASE, THE SURFACE IS NO MORE THAN 4 INCHES BELOW THE FLOOR LEVEL OF THE INTERIOR OF THE DWELLING UNIT, OR LOWER IF REQUIRED BY LOCAL BUILDING CODE.
- (6) AT THE PRIMARY ENTRY DOOR TO DWELLING UNITS WITH DIRECT EXTERIOR ACCESS, OUTSIDE LANDING SURFACES CONSTRUCTED OF IMPERVIOUS MATERIALS SUCH AS CONCRETE, BRICK OR FLAGSTONE, ARE NO MORE THAN 1/2 INCH BELOW THE FLOOR LEVEL OF THE INTERIOR OF THE DWELLING UNIT. THE FINISHED SURFACE OF THIS AREA THAT IS LOCATED IMMEDIATELY OUTSIDE THE ENTRY MAY BE SLOPED, UP TO 1/8 INCH PER FOOT (12 INCHES), FOR DRAINAGE.

REQUIREMENT 5. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS IN ACCESSIBLE LOCATIONS.

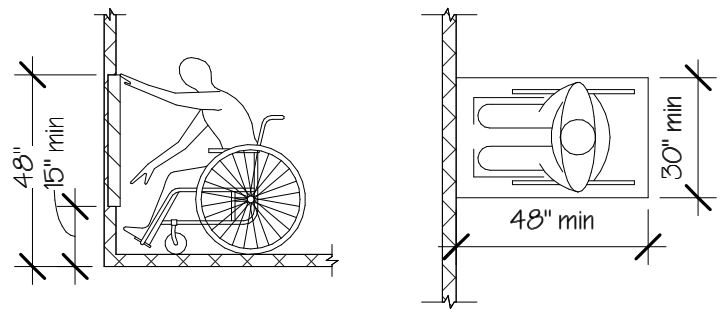
SECTION 100.205(C)(3)(II) REQUIRES THAT ALL COVERED MULTIFAMILY DWELLINGS WITH A BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER THAT ALL PREMISES WITHIN COVERED MULTIFAMILY DWELLING UNITS CONTAIN LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS, AND OTHER ENVIRONMENTAL CONTROLS IN ACCESSIBLE LOCATIONS.

Guideline

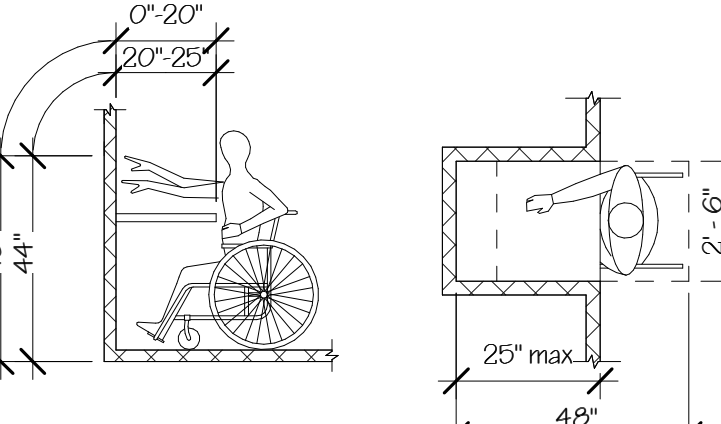
Light switches, electrical outlets, thermostats and other environmental controls would meet section 100.205(c)(3)(ii) if operable parts of the controls are located no higher than 48 inches, and no lower than 15 inches, above the floor. If the reach is over an obstruction (for example, an overhanging shelf) between 20 and 25 inches in depth, the maximum height is reduced to 44 inches for forward approach, or 46 inches for side approach, provided the obstruction (for example, a kitchen base cabinet) is no more than 24 inches in depth. Obstructions should not extend more than 25 inches from the wall beneath a control. (See Fig.2.)

NOTE:

Controls or outlets that do not satisfy these specifications are acceptable provided that comparable controls or outlets (i.e., that perform the same functions) are provided within the same area and are accessible, in accordance with this guideline for Requirement 5.

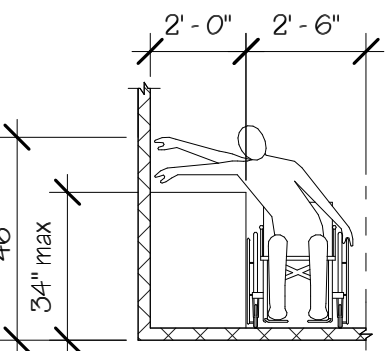


(a) Forward Reach Limit



NOTE: Clear knee space should be as deep as the reach distance

(b) Maximum Forward Reach Over an Obstruction



(a) Maximum Side Reach Over an Obstruction

Fig. 2 - Reach Ranges

REQUIREMENT 6. REINFORCED WALLS FOR GRAB BARS.

SECTION 100.205(C)(3)(III) REQUIRES THAT COVERED MULTIFAMILY DWELLINGS WITH A BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER THAT ALL PREMISES WITHIN COVERED MULTIFAMILY DWELLING UNITS CONTAIN REINFORCEMENTS IN BATHROOM WALLS TO ALLOW LATER INSTALLATION OF GRAB BARS AROUND TOILET, TUB, SHOWER STALL AND SHOWER SEAT, WHERE SUCH FACILITIES ARE PROVIDED.

GUIDELINE

REINFORCED BATHROOM WALLS TO ALLOW LATER INSTALLATION OF GRAB BARS AROUND THE TOILET, TUB, SHOWER STALL AND SHOWER SEAT, WHERE SUCH FACILITIES ARE PROVIDED, WOULD MEET SECTION 100.205(C)(3)(III) IF REINFORCED AREAS ARE PROVIDED AT LEAST AT THOSE POINTS WHERE GRAB BARS WILL BE MOUNTED. (FOR EXAMPLE, SEE FIGS. 3, 4 AND 5.) WHERE THE TOILET IS NOT PLACED ADJACENT TO A SIDE WALL, THE BATHROOM WOULD COMPLY IF PROVISION WAS MADE FOR INSTALLATION OF FLOOR MOUNTED, FOLD-DOWN OR SIMILAR ALTERNATIVE GRAB BARS. WHERE THE POWDER ROOM (A ROOM WITH A TOILET AND SINK) IS THE ONLY TOILET FACILITY LOCATED ON AN ACCESSIBLE LEVEL OF A MULTISTORY DWELLING UNIT, IT MUST COMPLY WITH THE REQUIREMENT FOR REINFORCED WALLS FOR GRAB BARS.

NOTE:

INSTALLATION OF BATHTUBS IS NOT LIMITED BY THE ILLUSTRATIVE FIGURES; A TUB MAY HAVE SHELVES OR BENCHES AT EITHER END; OR A TUB MAY BE INSTALLED WITHOUT SURROUNDING WALLS, IF THERE IS PROVISION FOR ALTERNATIVE MOUNTING OF GRAB BARS. FOR EXAMPLE, A SUNKEN TUB PLACED AWAY FROM WALLS COULD HAVE REINFORCED AREAS FOR INSTALLATION OF FLOOR-MOUNTED GRAB BARS. THE SAME PRINCIPLE APPLIES TO SHOWER STALLS - E.G., GLASS-WALLED STALLS COULD BE PLANNED TO ALLOW FLOOR-MOUNTED GRAB BARS TO BE INSTALLED LATER.

REINFORCEMENT FOR GRAB BARS MAY BE PROVIDED IN A VARIETY OF WAYS (FOR EXAMPLE, BY PLYWOOD OR WOOD BLOCKING) SO LONG AS THE NECESSARY REINFORCEMENT IS PLACED SO AS TO PERMIT LATER INSTALLATION OF APPROPRIATE GRAB BARS.

REQUIREMENT 7. USABLE KITCHENS AND BATHROOMS.

SECTION 100.205(C)(3)(IV) REQUIRES THAT COVERED MULTIFAMILY DWELLINGS WITH A BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER THAT ALL PREMISES WITHIN COVERED MULTIFAMILY DWELLING UNITS CONTAIN USABLE KITCHENS AND BATHROOMS SUCH THAT AN INDIVIDUAL IN A WHEELCHAIR CAN MANUEVER ABOUT THE SPACE.

GUIDELINE

(1) USABLE KITCHENS. USABLE KITCHENS WOULD MEET SECTION 100.205(C)(3)(IV) IF:

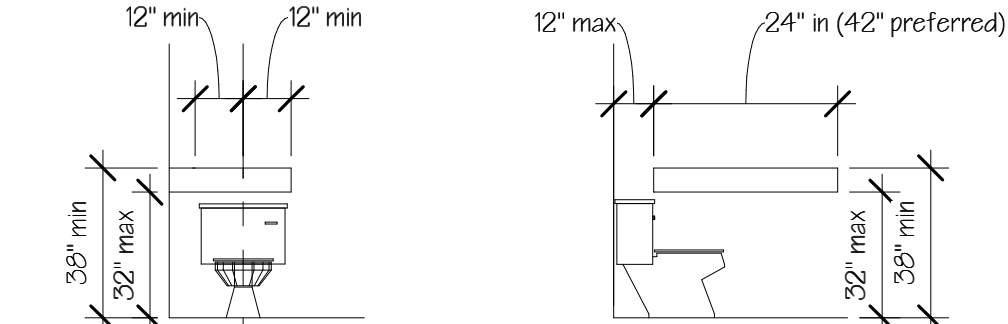
- (A) A CLEAR FLOOR SPACE AT LEAST 30 INCHES BY 48 INCHES THAT ALLOWS A PARALLEL APPROACH BY A PERSON IN A WHEELCHAIR IS PROVIDED AT THE RANGE OR COOKTOP, AND EITHER A PARALLEL OR FORWARD APPROACH IS PROVIDED AT OVEN, DISHWASHER, REFRIGERATOR/FREEZER OR TRASH COMPACTOR. (SEE FIG. 6)
- (B) CLEARANCE BETWEEN COUNTERS AND ALL OPPOSING BASE CABINETS, COUNTERTOPS, APPLIANCES OR WALLS IS AT LEAST 40 INCHES.
- (C) IN U-SHAPED KITCHENS WITH SINK OR RANGE OR COOKTOP AT THE BASE OF THE "U", A 60-INCH TURNING RADIUS IS PROVIDED TO ALLOW PARALLEL APPROACH, OR BASE CABINETS ARE REMOVABLE AT THAT LOCATION TO ALLOW KNEE SPACE FOR A FORWARD APPROACH.

(2) USABLE BATHROOMS. TO MEET THE REQUIREMENTS OF SECTION 100.205(C)(3)(IV) EITHER:

ALL BATHROOMS IN THE DWELLING UNIT COMPLY WITH THE PROVISIONS OF PARAGRAPH (A); OR

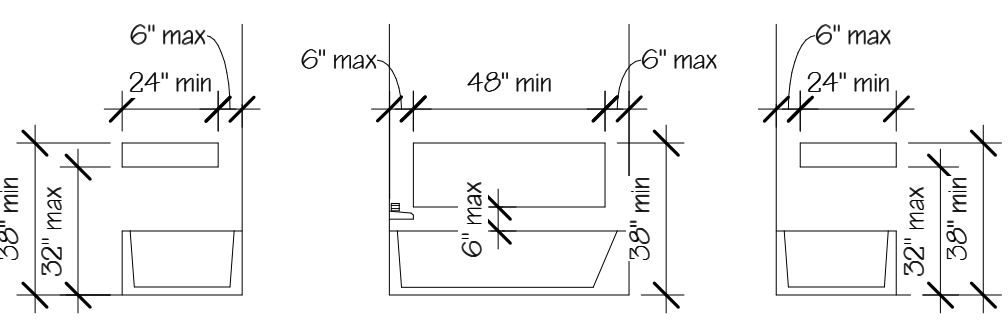
AT LEAST ONE BATHROOM IN THE DWELLING UNIT COMPLIES WITH THE PROVISIONS OF PARAGRAPH (B), AND ALL OTHER BATHROOMS AND POWDER ROOMS WITHIN THE DWELLING UNIT MUST BE ON AN ACCESSIBLE ROUTE WITH USABLE ENTRY DOORS IN ACCORDANCE WITH THE GUIDELINES FOR REQUIREMENTS 3 AND 4.

HOWEVER, IN MULTISTORY DWELLING UNITS, ONLY THOSE BATHROOMS ON THE ACCESSIBLE LEVEL ARE SUBJECT TO THE REQUIREMENTS OF SECTION 100.205(C)(3)(IV). WHERE A POWDER ROOM IS THE ONLY FACILITY PROVIDED ON THE ACCESSIBLE LEVEL OF A MULTISTORY DWELLING UNIT, THE POWDER ROOM MUST COMPLY WITH PROVISIONS OF PARAGRAPH (A) OR PARAGRAPH (B). POWDER ROOMS THAT ARE SUBJECT TO THE REQUIREMENTS OF SECTION 100.205(C)(3)(IV) MUST HAVE REINFORCEMENTS FOR GRAB BARS AS PROVIDED IN THE GUIDELINE FOR REQUIREMENT 6.



REINFORCED AREAS FOR INSTALLATION OF GRAB BARS

FIG. 3 - WATER CLOSETS IN ADAPTABLE BATHROOMS



NOTE: THE AREAS OUTLINED IN DASHED LINES REPRESENT LOCATIONS FOR FUTURE INSTALLATION OF GRAB BARS FOR TYPICAL FIXTURE CONFIGURATIONS.

FIG. 4 - LOCATION OF GRAB BAR REINFORCEMENTS FOR ADAPTABLE BATHTUBS

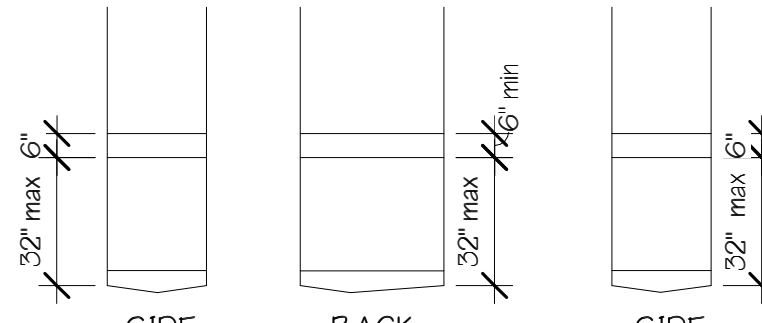


FIG. 5 - LOCATION OF GRAB BAR REINFORCEMENTS FOR ADAPTABLE SHOWERS

(A) BATHROOMS THAT HAVE REINFORCED WALLS FOR GRAB BARS (SEE REQUIREMENT 6) WOULD MEET SECTION 100.205(C)(3)(IV) IF:

- (I) SUFFICIENT MANEUVERING SPACE IS PROVIDED WITHIN THE BATHROOM FOR A PERSON USING A WHEELCHAIR OR OTHER MOBILITY AID TO ENTER AND CLOSE THE DOOR, USE THE FIXTURES, REOPEN THE DOOR AND EXIT. DOORS MAY SWING INTO THE CLEAR FLOOR SPACE PROVIDED AT ANY FIXTURE IF THE MANEUVERING SPACE IS PROVIDED. MANEUVERING SPACES MAY INCLUDE ANY KNEESPACE OR TOESPACE AVAILABLE BELOW BATHROOM FIXTURES.
- (II) CLEAR FLOOR SPACE IS PROVIDED AT FIXTURES AS SHOWN IN FIG. 7 (A), (B), (C) AND (D). CLEAR FLOOR SPACE AT FIXTURES MAY OVERLAP.
- (III) IF THE SHOWER STALL IS THE ONLY BATHING FACILITY PROVIDED IN THE COVERED DWELLING UNIT, OR ON THE ACCESSIBLE LEVEL OF A COVERED MULTISTORY UNIT, THE SHOWER STALL MEASURES AT LEAST 36 INCHES X 36 INCHES.

NOTE: CABINETS UNDER LAVATORIES ARE ACCEPTABLE PROVIDED THE BATHROOM HAS SPACE TO ALLOW A PARALLEL APPROACH BY A PERSON IN A WHEELCHAIR. IF PARALLEL APPROACH IS NOT POSSIBLE WITHIN THE SPACE, ANY CABINETS PROVIDED WOULD HAVE TO BE REMOVABLE TO AFFORD THE NECESSARY KNEE CLEARANCE FOR FORWARD APPROACH.

(B) BATHROOMS THAT HAVE REINFORCED WALLS FOR GRAB BARS (SEE REQUIREMENT 6) WOULD MEET SECTION 100.205(C)(3)(IV) IF:

- (I) WHERE THE DOOR SWINGS INTO THE BATHROOM, THERE IS A CLEAR SPACE (APPROXIMATELY, 2' 6" BY 4'0") WITHIN THE ROOM TO POSITION A WHEELCHAIR OR OTHER MOBILITY AID CLEAR OF THE PATH OF THE DOOR AS IT IS CLOSED AND TO PERMIT USE OF FIXTURES. THIS CLEAR SPACE CAN INCLUDE ANY KNEESPACE AND TOESPACE AVAILABLE BELOW BATHROOM FIXTURES.
- (II) WHERE THE DOOR SWINGS OUT, A CLEAR SPACE IS PROVIDED WITHIN THE BATHROOM FOR A PERSON USING A WHEELCHAIR OR OTHER MOBILITY AID TO POSITION THE WHEELCHAIR SUCH THAT THE PERSON IS ALLOWED USE OF FIXTURES. THERE ALSO SHALL BE CLEAR SPACE TO ALLOW PERSONS USING WHEELCHAIRS TO REOPEN THE DOOR TO EXIT.
- (III) WHEN BOTH TUB AND SHOWER FIXTURES ARE PROVIDED IN THE BATHROOM, AT LEAST ONE IS MADE ACCESSIBLE. WHEN TWO OR MORE LAVATORIES IN A BATHROOM ARE PROVIDED, AT LEAST ONE IS MADE ACCESSIBLE.

(IV) TOILETS ARE LOCATED WITHIN BATHROOMS IN A MANNER THAT PERMIT A GRAB BAR TO BE INSTALLED ON ONE SIDE OF THE FIXTURE. IN LOCATIONS WHERE TOILETS ARE ADJACENT TO WALLS OR BATHTUBS, THE CENTER LINE OF THE FIXTURE IS A MINIMUM OF 15" FROM THE OBSTACLE. THE OTHER (NON-GRAB BAR) SIDE OF THE TOILET FIXTURE IS A MINIMUM OF 3" FROM THE FINISHED SURFACE OF ADJOINING WALLS, VANITIES OR FROM THE EDGE OF A LAVATORY. (SEE FIGURE 7(A).)

(V) VANITIES AND LAVATORIES ARE INSTALLED WITH THE CENTERLINE OF THE FIXTURE A MINIMUM OF 13" HORIZONTALLY FROM AN ADJOINING WALL OR FIXTURE. THE TOP OF THE FIXTURE RIM IS A MAXIMUM HEIGHT OF 210" ABOVE THE FINISHED FLOOR. IF KNEESPACE IS PROVIDED BELOW THE VANITY, THE BOTTOM OF THE APRON IS AT LEAST 29" ABOVE THE FLOOR. IF PROVIDED, FULL KNEESPACE (FOR FRONT APPROACH) IS AT LEAST 15" DEEP. (SEE FIGURE 7(C).)

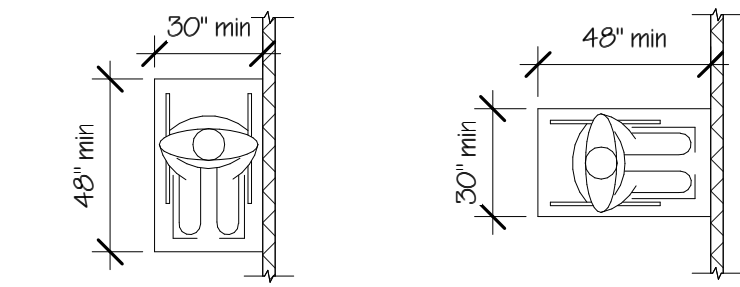
(VI) BATHTUBS AND TUB/SHOWERS LOCATED IN THE BATHROOM PROVIDE A CLEAR ACCESS AISLE ADJACENT TO THE LAVATORY THAT IS AT LEAST 26" WIDE AND EXTENDS FOR A LENGTH OF 4'0" (MEASURED FROM THE FOOT OF THE BATHTUB). (SEE FIGURE 8.)

(VII) STALL SHOWERS IN THE BATHROOM MAY BE OF ANY SIZE OR CONFIGURATION. A MINIMUM CLEAR FLOOR SPACE 26" WIDE BY 4'0" SHOULD BE AVAILABLE OUTSIDE THE STALL. (SEE FIGURE 7(D).) IF THE SHOWER STALL IS THE ONLY BATHING FACILITY PROVIDED IN THE COVERED DWELLING UNIT, OR ON THE ACCESSIBLE LEVEL OF A COVERED MULTISTORY UNIT, AND MEASURES A NOMINAL 36 X 36, THE SHOWER STALL MUST HAVE REINFORCING TO ALLOW FOR INSTALLATION OF AN OPTIONAL WALL HUNG BENCH SEAT.

NOTE: CLEAR FLOOR SPACE BESIDE TUB MAY OVERLAP WITH CLEAR FLOOR SPACE BENEATH ADJACENT FIXTURES.

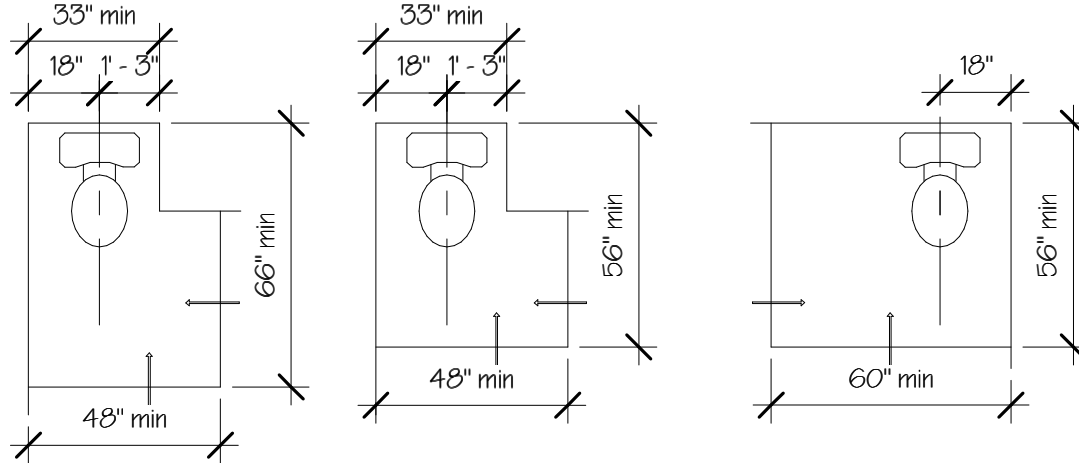
NOTE: FIGURES ARE NOT TO SCALE

NOTE: DIMENSIONS ARE TO FINISHED FLOORS AND WALLS.

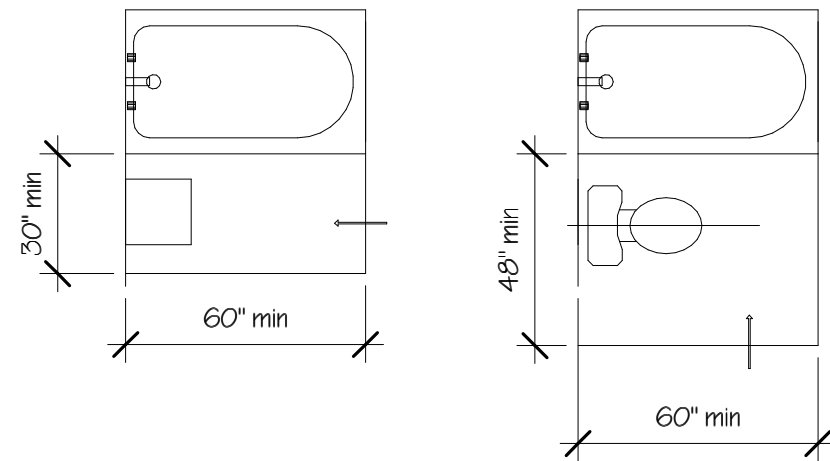


(A) PARALLEL APPROACH (B) FORWARD APPROACH

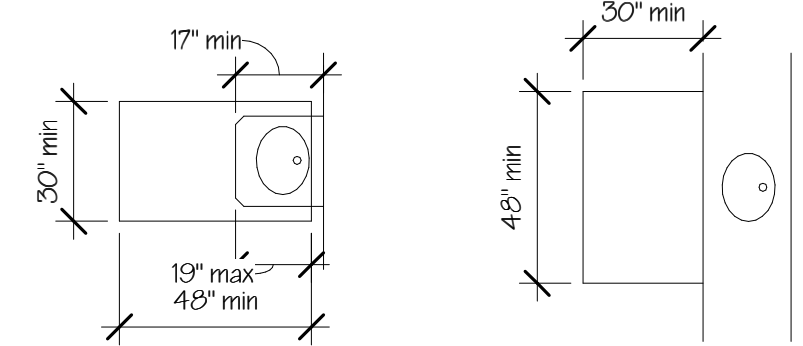
FIG. 6 - MINIMUM CLEAR FLOOR SPACE FOR WHEELCHAIRS



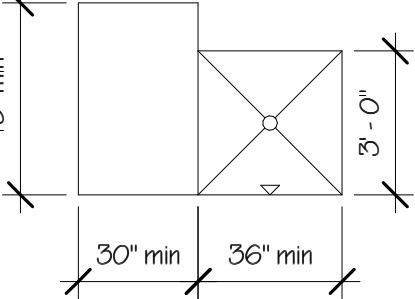
(A) CLEAR FLOOR SPACE FOR WATER CLOSETS



(B) CLEAR FLOOR SPACE FOR BATHTUBS



(C) CLEAR FLOOR SPACE AT LAVATORIES



(D) CLEAR FLOOR SPACE AT SHOWER

FIG. 7 - CLEAR FLOOR SPACE FOR ADAPTABLE BATHROOMS

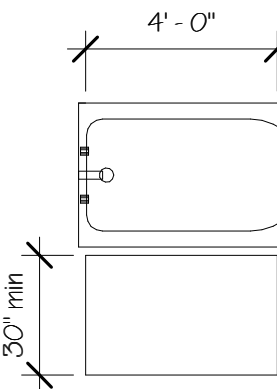
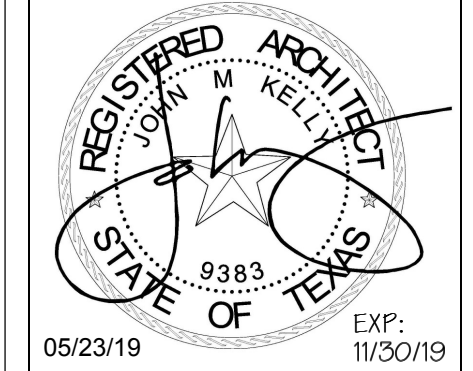


FIG. 8 - ALTERNATIVE SPECIFICATIONS- CLEAR FLOOR SPACE AT BATHTUB

NOTE: WHEN THE INFORMATION IN THE FAIR HOUSING FIGURES CONFLICT WITH THE FIGURES IN ANSI A117.1, THE ANSI FIGURES SHALL OVERRIDE THE FAIR HOUSING FIGURES.

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2015 INTERNATIONAL BUILDING CODE - CHAPTER 11 - ACCESSIBILITY

STATEMENT

THIS PROJECT HAS BEEN DESIGNED TO MEET THE ACCESSIBILITY REQUIREMENTS OF ANSI A117.1-2009 AND THE 2015 INTERNATIONAL BUILDING CODE (2015 IBC). THE "TYPE A" AND "TYPE B" UNITS ARE ALL DESIGNED TO BE ADAPTED FOR USE BY THE PHYSICALLY HANDICAPPED.

ALL GROUND FLOOR UNITS, OR UNITS ACCESSIBLE BY ELEVATOR, ARE "TYPE B" UNITS, EXCEPT FOR THE 2% OF "TYPE A" UNITS AS REQUIRED BY THE 2015 INTERNATIONAL BUILDING CODE. "TYPE A" AND "TYPE B" UNITS ARE DESIGNED TO COMPLY WITH ANSI A117.1-2009.

SECTION 1101 - GENERAL

1101.1 SCOPE.

THE PROVISIONS OF THIS CHAPTER SHALL CONTROL THE DESIGN AND CONSTRUCTION OF FACILITIES FOR ACCESSIBILITY FOR INDIVIDUALS WITH DISABILITIES.

1101.2 DESIGN.

BUILDINGS AND FACILITIES SHALL BE DESIGNED AND CONSTRUCTED TO BE ACCESSIBLE IN ACCORDANCE WITH THIS CODE AND ICCA117.1.

SECTION 1102 - DEFINITIONS

1102.1 DEFINITIONS.

THE FOLLOWING WORDS AND TERMS SHALL, FOR THE PURPOSES OF THIS CHAPTER AND AS USED ELSEWHERE IN THE CODE, HAVE THE MEANINGS SHOWN HEREIN:

ACCESSIBLE. A SITE, BUILDING, FACILITY OR PORTION THEREOF THAT COMPLIES WITH THIS CHAPTER.
ACCESSIBLE ROUTE. A CONTINUOUS, UNOBSTRUCTED PATH THAT COMPLIES WITH THIS CHAPTER.
ACCESSIBLE UNIT. A DWELLING UNIT OR SLEEPING UNIT THAT COMPLIES WITH THIS CODE AND THE PROVISIONS FOR ACCESSIBLE UNITS IN ICC A117.1.
AREA OF SPORT ACTIVITY.
CIRCULATION PATH. AN EXTERIOR OR INTERIOR WAY OF PASSAGE FROM ONE PLACE TO ANOTHER FOR PEDESTRIANS.
COMMON USE. INTERIOR OR EXTERIOR CIRCULATION PATHS, ROOMS, SPACES OR ELEMENTS THAT ARE NOT FOR PUBLIC USE AND ARE MADE AVAILABLE FOR THE SHARED USE OF TWO OR MORE PEOPLE.
DETECTABLE WARNING. A STANDARDIZED SURFACE FEATURE BUILT IN OR APPLIED TO WALKING SURFACES OR OTHER ELEMENTS TO WARN VISUALLY IMPAIRED PERSONS OF HAZARDS ON A CIRCULATION PATH.
EMPLOYEE WORK AREA. ALL OR ANY PORTION OF A SPACE USED ONLY BY EMPLOYEES AND ONLY FOR WORK.
CORRIDORS, TOILET ROOMS, KITCHENETTES AND BREAK ROOMS ARE NOT EMPLOYEE WORK AREAS.
FACILITY. ALL OR ANY PORTION OF BUILDINGS, STRUCTURES, SITE IMPROVEMENTS, ELEMENTS AND PEDESTRIAN OR VEHICULAR ROUTES LOCATED ON A SITE.
INTENDED TO BE OCCUPIED AS A RESIDENCE. THIS REFERS TO A DWELLING UNIT OR SLEEPING UNIT THAT CAN OR WILL BE USED ALL OR PART OF THE TIME AS THE OCCUPANT'S PLACE OF ABODE.
MULTILEVEL ASSEMBLY SEATING. SEATING THAT IS ARRANGED IN DISTINCT LEVELS WHERE EACH LEVEL IS COMPRISED OF EITHER MULTIPLE ROWS, OR A SINGLE ROW OF BOX SEATS ACCESSED FROM A SEPERATE LEVEL.
MULTISTORY UNIT. A DWELLING UNIT OR SLEEPING UNIT WITH HABITABLE SPACE LOCATED ON MORE THAN ONE STORY.
PUBLIC ENTRANCE. AN ENTRANCE THAT IS NOT A SERVICE ENTRANCE OR A RESTRICTED ENTRANCE.
PUBLIC-USE AREAS. INTERIOR OR EXTERIOR ROOMS OR SPACES THAT ARE MADE AVAILABLE TO THE GENERAL PUBLIC.
RESTRICTED ENTRANCE. AN ENTRANCE THAT IS MADE AVAILABLE FOR COMMON USE ON A CONTROLLED BASIS, BUT NOT PUBLIC USE, AND THAT IS NOT A SERVICE ENTRANCE.
SELF-SERVICE STORAGE FACILITY. REAL PROPERTY DESIGNED AND USED FOR THE PURPOSE OF RENTING OR LEASING INDIVIDUAL STORAGE SPACES TO CUSTOMERS FOR THE PURPOSE OF STORING AND REMOVING PERSONAL PROPERTY ON A SELF-SERVICE BASIS.
SERVICE ENTRANCE. AN ENTRANCE INTENDED PRIMARILY FOR DELIVERY OF GOODS OR SERVICES.
SITE. A PARCEL OF LAND BOUNDED BY A LOT LINE OR A DESIGNATED PORTION OF A PUBLIC RIGHT-OF-WAY.
TYPE A UNIT. A DWELLING UNIT OR SLEEPING UNIT DESIGNED AND CONSTRUCTED FOR ACCESSIBILITY IN ACCORDANCE WITH THIS CODE AND THE PROVISIONS FOR TYPE A UNITS IN ICC A117.1.
TYPE B UNIT. A DWELLING UNIT OR SLEEPING UNIT DESIGNED AND CONSTRUCTED FOR ACCESSIBILITY IN ACCORDANCE WITH THIS CODE AND THE PROVISIONS FOR TYPE B UNITS IN ICC A117.1, CONSISTANT WITH THE DESIGN AND CONSTRUCTION REQUIREMENTS OF THE FEDERAL FAIR HOUSING ACT.
WHEELCHAIR SPACE. A SPACE FOR A SINGLE WHEELCHAIR AND ITS OCCUPANT.

SECTION 1103 - SCOPING REQUIREMENTS

1103.1 WHERE REQUIRED.

SITES, BUILDINGS, STRUCTURES, FACILITIES, ELEMENTS AND SPACES, TEMPORARY OR PERMANENT, SHALL BE ACCESSIBLE TO PERSONS WITH PHYSICAL DISABILITIES.

1103.2 GENERAL EXCEPTIONS.

SITES, BUILDINGS, STRUCTURES, FACILITIES, ELEMENTS AND SPACES SHALL BE EXEMPT FROM THIS CHAPTER TO THE EXTENT SPECIFIED IN THIS SECTION.

1103.2.1 SPECIFIC REQUIREMENTS.

ACCESSIBILITY IS NOT REQUIRED IN BUILDINGS AND FACILITIES, OR PORTIONS THEREOF, TO THE EXTENT PERMITTED BY SECTIONS 1104 THROUGH 1111.

1103.2.2 EMPLOYEE WORK AREAS.

SPACES AND ELEMENTS WITHIN EMPLOYEE WORK AREAS SHALL ONLY BE REQUIRED TO COMPLY WITH SECTIONS 907.5.2.3.1, 1009 AND 1104.3.1 AND SHALL BE DESIGNED AND CONSTRUCTED SO THAT INDIVIDUALS WITH DISABILITIES CAN APPROACH, ENTER AND EXIT THE WORK AREA, WORK AREAS, OR PORTIONS OF WORK AREAS, OTHER THAN RATED COURTROOM STATIONS, THAT ARE LESS THAN 300 SQUARE FEET IN AREA AND LOCATED 7 INCHES OR MORE ABOVE OR BELOW THE GROUND OR FINISH FLOOR WHERE THE CHANGE IN ELEVATION IS ESSENTIAL TO THE FUNCTION OF THE SPACE SHALL BE EXEMPT FROM ALL REQUIREMENTS.

1103.2.3 DETACHED DWELLINGS.

DETACHED ONE- AND TWO-FAMILY DWELLINGS AND ACCESSORY STRUCTURES, AND THEIR ASSOCIATED SITES AND FACILITIES, ARE NOT REQUIRED TO COMPLY WITH THIS CHAPTER.

1103.2.4 UTILITY BUILDINGS.

GROUP U OCCUPANCIES ARE NOT REQUIRED TO COMPLY WITH THIS CHAPTER OTHER THAN THE FOLLOWING:

- 1. IN AGRICULTURAL BUILDINGS, ACCESS IS REQUIRED TO PAVED WORK AREAS OPEN TO THE GENERAL PUBLIC.
- 2. PRIVATE GARAGES OR CARPORTS THAT CONTAIN REQUIRED ACCESSIBLE PARKING.

1103.2.5 CONSTRUCTION SITES.

STRUCTURES, SITES AND EQUIPMENT DIRECTLY ASSOCIATED WITH THE ACTUAL PROCESSES OF CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, SCAFFOLDING, BRIDGING, MATERIALS HOISTS, MATERIALS STORAGE OR CONSTRUCTION TRAILERS ARE NOT REQUIRED TO COMPLY WITH THIS CHAPTER.

1103.2.7 LIMITED ACCESS SPACES.

SPACES ACCESSED ONLY BY LADDERS, CATWALKS, CRAWL SPACES, FREIGHT ELEVATORS OR VERY NARROW PASSAGEWAYS ARE NOT REQUIRED TO COMPLY WITH THIS CHAPTER.

1103.2.9 EQUIPMENT SPACES.

SPACES FREQUENTED ONLY BY SERVICE PERSONNEL FOR MAINTENANCE, REPAIR OR OCCASIONAL MONITORING OF EQUIPMENT ARE NOT REQUIRED TO COMPLY WITH THIS CHAPTER.

1103.2.11 RESIDENTIAL GROUP R-1.

BUILDINGS OF GROUP R-1 CONTAINING NOT MORE THAN FIVE SLEEPING UNITS FOR RENT OR HIRE THAT ARE ALSO OCCUPIED AS THE RESIDENCE OF THE PROPRIETOR ARE NOT REQUIRED TO COMPLY WITH THIS CHAPTER.

1103.2.12 DAY CARE FACILITIES.

WHERE A DAY CARE FACILITY IS PART OF A DWELLING UNIT, ONLY THE PORTION OF THE STRUCTURE UTILIZED FOR THE DAY CARE FACILITY IS REQUIRED TO COMPLY WITH THIS CHAPTER.

1103.2.14 WALK-IN COOLERS AND FREEZERS.

WALK-IN COOLERS AND FREEZERS INTENDED FOR EMPLOYEE USE ONLY ARE NOT REQUIRED TO COMPLY WITH THIS CHAPTER.

SECTION 1104 - ACCESSIBLE ROUTE

1104.1 SITE ARRIVAL POINTS.

AT LEAST ONE ACCESSIBLE ROUTE WITHIN THE SITE SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING, ACCESSIBLE PASSENGER LOADING ZONES, AND PUBLIC STREETS OR SIDEWALKS TO THE ACCESSIBLE BUILDING ENTRANCE SERVED.

EXCEPTION: OTHER THAN IN BUILDINGS OR FACILITIES CONTAINING OR SERVING TYPE B UNITS, AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED BETWEEN SITE ARRIVAL POINTS AND THE BUILDING OR FACILITY ENTRANCE IF THE ONLY MEANS OF ACCESS BETWEEN THEM IS A VEHICULAR WAY NOT PROVIDING FOR PEDESTRIAN ACCESS.

1104.2 Within a site.

AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE.

EXCEPTIONS:

1. AN ACCESSIBLE ROUTE IS NOT REQUIRED BETWEEN ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS AND ACCESSIBLE SPACES THAT HAVE, AS THE ONLY MEANS OF ACCESS BETWEEN THEM, A VEHICULAR WAY NOT PROVIDING FOR PEDESTRIAN ACCESS.

2. AN ACCESSIBLE ROUTE TO RECREATIONAL FACILITIES SHALL ONLY BE REQUIRED TO THE EXTENT SPECIFIED IN SECTION 1110.

1104.3 CONNECTED SPACES.

WHEN A BUILDING OR PORTION OF A BUILDING IS REQUIRED TO BE ACCESSIBLE, AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED TO EACH PORTION OF THE BUILDING, TO ACCESSIBLE BUILDING ENTRANCES CONNECTING ACCESSIBLE PEDESTRIAN WALKWAYS, AND THE PUBLIC WAY.

NOTE:
ELEMENTS THAT ARE NOT APPLICABLE HAVE BEEN OMITTED.

EXCEPTIONS:
1. STORIES AND MEZZANINES EXEMPTED BY SECTION 1104.4.

2. IN A BUILDING, ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH FIXED SEATING, AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED TO SERVE LEVELS WHERE WHEELCHAIR SPACES ARE NOT PROVIDED.

3. VERTICAL ACCESS TO ELEVATED EMPLOYEE WORK STATIONS WITHIN A COURTROOM COMPLYING WITH SECTION 1108.4.1.4.

4. AN ACCESSIBLE ROUTE TO RECREATIONAL FACILITIES SHALL ONLY BE REQUIRED TO THE EXTENT SPECIFIED IN SECTION 1110.

1104.3.1 EMPLOYEE WORK AREAS.

COMMON USE CIRCULATION PATHS WITHIN EMPLOYEE WORK AREAS SHALL BE ACCESSIBLE ROUTES.

EXCEPTIONS:

1. COMMON USE CIRCULATION PATHS, LOCATED WITHIN EMPLOYEE WORK AREAS THAT ARE LESS THAN 1,000 SQUARE FEET IN SIZE AND DEFINED BY PERMANENT INSTALLED PARTITIONS, COUNTERS, CASEWORK OR FURNISHINGS, SHALL NOT BE REQUIRED TO BE ACCESSIBLE ROUTES..

2. COMMON USE CIRCULATION PATHS, LOCATED WITHIN EMPLOYEE WORK AREAS, THAT ARE AN INTEGRAL COMPONENT OF EQUIPMENT, SHALL NOT BE REQUIRED TO BE ACCESSIBLE ROUTES.

3. COMMON USE CIRCULATION PATHS, LOCATED WITHIN EXTERIOR EMPLOYEE WORK AREAS THAT ARE FULLY EXPOSED TO THE WEATHER, SHALL NOT BE REQUIRED TO BE ACCESSIBLE ROUTE.

1104.4 MULTILEVEL BUILDINGS AND FACILITIES.

AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT EACH ACCESSIBLE STORY AND MEZZANINE IN MULTILEVEL BUILDINGS AND FACILITIES.

EXCEPTIONS:

1. AN ACCESSIBLE ROUTE IS NOT REQUIRED TO STORIES AND MEZZANINES THAT HAVE AN AGGREGATE AREA OF NOT MORE THAN 3,000 SQUARE FEET AND ARE LOCATED ABOVE AND BELOW ACCESSIBLE LEVELS. THIS EXCEPTION SHALL NOT APPLY TO:

- 1.1. MULTIPLE TENANT FACILITIES OF GROUP M OCCUPANCIES CONTAINING FIVE OR MORE TENANT SPACES USED FOR THE SALES OR RENTAL OF GOODS AND WHERE AT LEAST ONE SUCH TENANT SPACE IS LOCATED ON A FLOOR LEVEL ABOVE OR BELOW THE ACCESSIBLE LEVELS;
- 1.2. STORIES OR MEZZANINES CONTAINING OFFICES OF HEALTH CARE PROVIDERS (GROUP B OR I);
- 1.3. PASSENGER TRANSPORTATION FACILITIES AND AIRPORTS (GROUP A-3 OR D); OR
- 1.4. GOVERNMENT BUILDINGS.

2. STORIES OR MEZZANINES THAT DO NOT CONTAIN ACCESSIBLE ELEMENTS OR OTHER SPACES AS DETERMINED BY SECTION 1107 OR 1108 ARE NOT REQUIRED TO BE SERVED BY AN ACCESSIBLE ROUTE FROM AN ACCESSIBLE LEVEL.

3. OMITTED (NOT APPLICABLE).

4. WHERE A TWO-STORY BUILDING OR FACILITY HAS ONE STORY OR MEZZANINE WITH AN OCCUPANT LOAD OF FIVE OR FEWER PERSONS THAT DOES NOT CONTAIN PUBLIC USE SPACE, THAT STORY OR MEZZANINE SHALL NOT BE REQUIRED TO BE CONNECTED BY AN ACCESSIBLE ROUTE TO THE STORY ABOVE OR BELOW.

1104.5 LOCATION.

ACCESSIBLE ROUTES SHALL COINCIDE WITH OR BE LOCATED IN THE SAME AREA AS A GENERAL CIRCULATION PATH WHERE THE CIRCULATION PATH IS INTERIOR. THE ACCESSIBLE ROUTE SHALL ALSO BE INTERIOR WHERE ONLY ONE ACCESSIBLE ROUTE IS PROVIDED. THE ACCESSIBLE ROUTE SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, RESTROOMS, CLOSETS OR SIMILAR SPACES.

EXCEPTIONS:

- 1. ACCESSIBLE ROUTES FROM PARKING GARAGES CONTAINED WITHIN AND SERVING TYPE B UNITS ARE NOT REQUIRED TO BE INTERIOR.
- 2. A SINGLE ACCESSIBLE ROUTE IS PERMITTED TO PASS THROUGH A KITCHEN OR STORAGE ROOM IN AN ACCESSIBLE UNIT, TYPE A UNIT OR TYPE B UNIT.

1104.6 SECURITY BARRIERS.

SECURITY BARRIERS INCLUDING, BUT NOT LIMITED TO, SECURITY BOLLARDS AND SECURITY CHECK POINTS SHALL NOT OBSTRUCT A REQUIRED ACCESSIBLE ROUTE OR ACCESSIBLE MEANS OF EGRESS.

EXCEPTION: WHERE SECURITY BARRIERS INCORPORATE ELEMENTS THAT CANNOT COMPLY WITH THESE REQUIREMENTS, SUCH AS CERTAIN METAL DETECTORS, FLUOROSCOPES OR OTHER SIMILAR DEVICES, THE ACCESSIBLE ROUTE SHALL BE PERMITTED TO BE PROVIDED ADJACENT TO SECURITY SCREENING DEVICES. THE ACCESSIBLE ROUTE SHALL PERMIT PERSONS WITH DISABILITIES PASSING AROUND SECURITY BARRIERS TO MAINTAIN VISUAL CONTACT WITH THEIR PERSONAL ITEMS TO THE SAME EXTENT PROVIDED OTHERS PASSING THROUGH THE SECURITY BARRIER.

SECTION 1105 - ACCESSIBLE ENTRANCES

1105.1 PUBLIC ENTRANCES.

IN ADDITION TO ACCESSIBLE ENTRANCES REQUIRED BY SECTIONS 1105.1.1 THROUGH 1105.1.7 AT LEAST 60 PERCENT OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE.

EXCEPTIONS:

- 1. AN ACCESSIBLE ENTRANCE IS NOT REQUIRED TO AREAS NOT REQUIRED TO BE ACCESSIBLE.
- 2. LOADING AND SERVICE ENTRANCES THAT ARE NOT THE ONLY ENTRANCE TO A TENANT SPACE.

1105.1.1 PARKING GARAGE ENTRANCES.

WHERE PROVIDED, DIRECT ACCESS FOR PEDESTRIANS FROM PARKING STRUCTURES TO BUILDINGS OR FACILITY ENTRANCES SHALL BE ACCESSIBLE.

1105.1.2 ENTRANCES FROM TUNNELS OR ELEVATED WALKWAYS.

WHERE DIRECT ACCESS IS PROVIDED FOR PEDESTRIANS FROM A PEDESTRIAN TUNNEL OR ELEVATED WALKWAY TO A BUILDING OR FACILITY, AT LEAST ONE ENTRANCE TO THE BUILDING OR FACILITY FROM EACH TUNNEL OR WALKWAY SHALL BE ACCESSIBLE.

1105.1.3 RESTRICTED ENTRANCES

WHERE RESTRICTED ENTRANCES ARE PROVIDED TO A BUILDING OR FACILITY, AT LEAST ONE RESTRICTED ENTRANCE TO THE BUILDING OR FACILITY SHALL BE ACCESSIBLE.

1105.1.5 SERVICE ENTRANCES.

IF A SERVICE ENTRANCE IS THE ONLY ENTRANCE TO A BUILDING OR A TENANT SPACE IN A FACILITY, THAT ENTRANCE SHALL BE ACCESSIBLE.

1105.1.6 TENANT SPACES.

AT LEAST ONE ACCESSIBLE ENTRANCE SHALL BE PROVIDED TO EACH TENANT IN A FACILITY.

EXCEPTION: AN ACCESSIBLE ENTRANCE IS NOT REQUIRED TO SELF-SERVICE STORAGE FACILITIES THAT ARE NOT REQUIRED TO BE ACCESSIBLE.

1105.1.7 DWELLING UNITS AND SLEEPING UNITS.

AT LEAST ONE ACCESSIBLE ENTRANCE SHALL BE PROVIDED TO EACH DWELLING UNIT AND SLEEPING UNIT IN A FACILITY.

EXCEPTION: AN ACCESSIBLE ENTRANCE IS NOT REQUIRED TO DWELLING UNITS AND SLEEPING UNITS THAT ARE NOT REQUIRED TO BE ACCESSIBLE UNITS, TYPE A UNITS OR TYPE B UNITS.

SECTION 1106 - PARKING AND PASSENGER LOADING FACILITIES

1106.1 REQUIRED.

WHERE PARKING IS PROVIDED, ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN COMPLIANCE WITH TABLE 1106.1, EXCEPT AS REQUIRED BY SECTIONS 1106.2 THROUGH 1106.4. WHERE MORE THAN ONE PARKING FACILITY IS PROVIDED ON A SITE, THE NUMBER OF PARKING SPACES REQUIRED TO BE ACCESSIBLE SHALL BE CALCULATED SEPARATELY FOR EACH PARKING FACILITY.

EXCEPTION: THIS SECTION DOES NOT APPLY TO PARKING SPACES USED EXCLUSIVELY FOR BUSES, TRUCKS, OTHER DELIVERY VEHICLES, LAW ENFORCEMENT VEHICLES OR VEHICULAR IMPOUND AND MOTOR POOLS WHERE LOTS ACCESSED BY THE PUBLIC ARE PROVIDED WITH AN ACCESSIBLE PASSENGER LOADING ZONE.

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2015 INTERNATIONAL BUILDING CODE
CHAPTER 11 - ACCESSIBILITY (Continued)

SECTION 1106 - PARKING AND PASSENGER LOADING FACILITIES

1106.1 REQUIRED.

WHERE PARKING IS PROVIDED, ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN COMPLIANCE WITH TABLE 1106.1, EXCEPT AS REQUIRED BY SECTIONS 1106.2 THROUGH 1106.4. WHERE MORE THAN ONE PARKING FACILITY IS PROVIDED ON A SITE, THE NUMBER OF PARKING SPACES REQUIRED TO BE ACCESSIBLE SHALL BE CALCULATED SEPARATELY FOR EACH PARKING FACILITY.

EXCEPTION: THIS SECTION DOES NOT APPLY TO PARKING SPACES USED EXCLUSIVELY FOR BUSES, TRUCKS, OTHER DELIVERY VEHICLES, LAW ENFORCEMENT VEHICLES OR VEHICULAR IMPOUND AND MOTOR POOLS WHERE LOTS ACCESSED BY THE PUBLIC ARE PROVIDED WITH AN ACCESSIBLE PASSENGER LOADING ZONE.

TABLE 1106.1
ACCESSIBLE PARKING SPACES

TOTAL PARKING SPACES PROVIDED	REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
301 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1,000	
1,001 and over	2%, plus 1 for each 100, or fraction thereof, over 1,000

1106.2 GROUPS 1-1, R-1, R-2, R3 AND R-4.

ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN GROUP 1-1, R-1, R-2, R-3 AND R-4 OCCUPANCIES IN ACCORDANCE WITH ITEMS 1 THROUGH 4 AS APPLICABLE.

1. IN GROUP R-2, R-3 AND R-4 OCCUPANCIES THAT ARE REQUIRED TO HAVE ACCESSIBLE, TYPE A OR TYPE B DWELLING UNITS, AT LEAST 2 PERCENT, BUT NO LESS THAN ONE, OF EACH TYPE OF PARKING SPACE PROVIDED MUST BE ACCESSIBLE.

2. IN GROUP 1-1 AND R-2 OCCUPANCIES, ACCESSIBLE PARKING SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1106.1.

3. WHERE AT LEAST ONE PARKING SPACE IS PROVIDED FOR EACH DWELLING UNIT OR SLEEPING UNIT, AT LEAST ONE ACCESSIBLE PARKING SPACE SHALL BE PROVIDED FOR EACH ACCESSIBLE AND TYPE A UNIT.

4. WHERE PARKING IS PROVIDED WITHIN OR BENEATH A BUILDING, ACCESSIBLE PARKING SPACES SHALL ALSO BE PROVIDED WITHIN OR BENEATH THE BUILDING.

1106.5 VAN SPACES.

FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES, AT LEAST ONE SHALL BE A VAN-ACCESSIBLE PARKING SPACE.

EXCEPTION: IN GROUP R-2 AND R-3 OCCUPANCIES, VAN-ACCESSIBLE SPACES LOCATED WITHIN PRIVATE GARAGES SHALL BE PERMITTED TO HAVE VEHICULAR ROUTES, ENTRANCES, PARKING SPACES AND ACCESS AISLES WITH A MINIMUM VERTICAL CLEARANCE OF 7 FEET.

1106.6 LOCATION.

ACCESSIBLE PARKING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE BUILDING ENTRANCE. IN PARKING FACILITIES THAT DO NOT SERVE A PARTICULAR BUILDING, ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ROUTE TO AN ACCESSIBLE PEDESTRIAN ENTRANCE TO THE PARKING FACILITY. WHERE BUILDINGS HAVE MULTIPLE ACCESSIBLE ENTRANCES WITH ADJACENT PARKING, ACCESSIBLE PARKING SPACES SHALL BE DISPERSED AND LOCATED NEAR THE ACCESSIBLE ENTRANCES.

EXCEPTIONS:

1. IN MULTILEVEL PARKING STRUCTURES, VAN-ACCESSIBLE PARKING SPACES ARE PERMITTED ON ONE LEVEL.

2. ACCESSIBLE PARKING SPACES SHALL BE PERMITTED TO BE LOCATED IN DIFFERENT PARKING FACILITIES IF SUBSTANTIALLY EQUIVALENT OR GREATER ACCESSIBILITY IS PROVIDED IN TERMS OF DISTANCE FROM AN ACCESSIBLE ENTRANCE OR ENTRANCES, PARKING FEE AND USER CONVENIENCE.

1106.7 PASSENGER LOADING ZONES.
PASSENGER LOADING ZONES SHALL BE ACCESSIBLE.

SECTION 1107 - DWELLING UNITS AND SLEEPING UNITS

1107.1 GENERAL.

IN ADDITION TO OTHER REQUIREMENTS OF THIS CHAPTER, OCCUPANCIES HAVING DWELLING UNITS OR SLEEPING UNITS SHALL BE PROVIDED WITH ACCESSIBLE FEATURES IN ACCORDANCE WITH THIS SECTION.

1107.2 DESIGN.

DWELLING UNITS AND SLEEPING UNITS THAT ARE REQUIRED TO BE ACCESSIBLE UNITS, TYPE A UNITS AND TYPE B UNITS SHALL COMPLY WITH THE APPLICABLE PORTIONS OF CHAPTER 10 OF ICC A117.1 UNITS REQUIRED TO BE TYPE A UNITS ARE PERMITTED TO BE DESIGNED AND CONSTRUCTED AS ACCESSIBLE UNITS. UNITS REQUIRED TO BE TYPE B UNITS ARE PERMITTED TO BE DESIGNED AND CONSTRUCTED AS ACCESSIBLE UNITS OR AS TYPE A UNITS.

1107.3 ACCESSIBLE SPACES.

ROOMS AND SPACES AVAILABLE TO THE GENERAL PUBLIC OR AVAILABLE FOR USE BY RESIDENTS AND SERVING ACCESSIBLE UNITS, TYPE A UNITS OR TYPE B UNITS SHALL BE ACCESSIBLE. ACCESSIBLE SPACES SHALL INCLUDE TOILET AND BATHING ROOMS, KITCHEN, LIVING AND DINING AREAS AND ANY EXTERIOR SPACES INCLUDING PATIOS, TERRACES, AND BALCONIES.

- EXCEPTIONS:
1. STORIES AND MEZZANINES EXEMPTED BY SECTION 1107.4.

2. RECREATIONAL FACILITIES IN ACCORDANCE WITH SECTION 1102.

3. EXTERIOR DECKS, PATIOS OR BALCONIES THAT ARE PART OF TYPE B UNITS AND HAVE IMPERVIOUS SURFACES, AND THAT ARE NOT MORE THAN 4 INCHES BELOW THE FINISHED FLOOR LEVEL OF THE ADJACENT INTERIOR SPACE OF THE UNIT.

1107.4 ACCESSIBLE ROUTE.

AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH THE PRIMARY ENTRANCE OF EACH ACCESSIBLE UNIT, TYPE A OR TYPE B UNIT WITHIN THE BUILDING OR FACILITY AND WITH THOSE EXTERIOR AND INTERIOR SPACES AND FACILITIES THAT SERVE THE UNITS.

- EXCEPTIONS:
1. IF DUE TO CIRCUMSTANCES OUTSIDE THE CONTROL OF THE OWNER, EITHER THE SLOPE OF THE FINISHED GROUND LEVEL BETWEEN ACCESSIBLE FACILITIES AND BUILDINGS EXCEEDS ONE UNIT VERTICAL IN 12 UNITS HORIZONTAL (1:12), OR WHERE PHYSICAL BARRIERS OR LEGAL RESTRICTIONS PREVENT THE INSTALLATION OF AN ACCESSIBLE ROUTE, A VEHICULAR ROUTE WITH PARKING THAT COMPLIES WITH SECTION 1106 AT EACH PUBLIC OR COMMON USE FACILITY OR BUILDING IS PERMITTED IN PLACE OF THE ACCESSIBLE ROUTE.
2. OMITTED (NOT APPLICABLE).

3. IN GROUP R-2 FACILITIES WITH TYPE A UNITS COMPLYING WITH SECTION 1107.6.2.2.1, AN ACCESSIBLE ROUTE IS NOT REQUIRED TO CONNECT STORIES OR MEZZANINES WHERE TYPE A UNITS, ALL COMMON USE AREAS SERVING TYPE A UNITS AND ALL PUBLIC USE AREAS ARE ON AN ACCESSIBLE ROUTE.

4-6. OMITTED (NOT APPLICABLE).

7. AN ACCESSIBLE ROUTE BETWEEN STORIES IS NOT REQUIRED WHERE TYPE B UNITS ARE EXEMPTED BY SECTION 1107.7.

1107.6 GROUP R.
ACCESSIBLE UNITS, TYPE A UNITS AND TYPE B UNITS SHALL BE PROVIDED IN GROUP R OCCUPANCIES IN ACCORDANCE WITH SECTIONS 1107.6.1 THROUGH 1107.6.4.

1107.6.2 GROUP R-2.

ACCESSIBLE UNITS, TYPE A UNITS AND TYPE B UNITS SHALL BE PROVIDED IN GROUP R-2 OCCUPANCIES IN ACCORDANCE WITH SECTIONS 1107.6.2.1 THROUGH 1107.6.2.3.

1107.6.2.1 LIVE/WORK UNITS.

IN LIVE/WORK UNITS CONSTRUCTED IN ACCORDANCE WITH SECTION 419, THE NONRESIDENTIAL PORTION IS REQUIRED TO BE ACCESSIBLE. IN A STRUCTURE WHERE THERE ARE FOUR OR MORE LIVE/WORK UNITS INTENDED TO BE OCCUPIED AS A RESIDENCE, THE RESIDENTIAL PORTION OF THE LIVE/WORK UNIT SHALL BE A TYPE B UNIT.

EXCEPTION: THE NUMBER OF TYPE B UNITS IS PERMITTED TO BE REDUCED IN ACCORDANCE WITH SECTION 1107.7.

1107.6.2.2 APARTMENT HOUSES, MONASTERIES AND CONVENTS.

TYPE A UNITS AND TYPE B UNITS SHALL BE PROVIDED IN APARTMENT HOUSES, MONASTERIES AND CONVENTS IN ACCORDANCE WITH SECTION 1107.6.2.2.1 AND 1107.6.2.2.2.

1107.6.2.2.1 TYPE A UNITS.

IN GROUP R-2 OCCUPANCIES CONTAINING MORE THAN 20 DWELLING UNITS OR SLEEPING UNITS, AT LEAST 2 PERCENT BUT NOT LESS THAN ONE OF THE UNITS SHALL BE A TYPE A UNIT. ALL R-2 UNITS ON A SITE SHALL BE CONSIDERED TO DETERMINE THE TOTAL NUMBER OF UNITS AND THE REQUIRED NUMBER OF TYPE A UNITS. TYPE A UNITS SHALL BE DISPERSED AMONG THE VARIOUS CLASSES OF UNITS.

- EXCEPTIONS:
1. THE NUMBER OF TYPE A UNITS IS PERMITTED TO BE REDUCED IN ACCORDANCE WITH SECTION 1107.7.
2. EXISTING STRUCTURES ON A SITE SHALL NOT CONTRIBUTE TO THE TOTAL NUMBER OF UNITS ON A SITE.

1107.6.2.12 TYPE B UNITS.

WHERE THERE ARE FOUR MORE DWELLING UNITS OR SLEEPING UNITS INTENDED TO BE OCCUPIED AS A RESIDENCE IN A SINGLE STRUCTURE, EVERY DWELLING UNIT AND SLEEPING UNIT INTENDED TO BE OCCUPIED AS A RESIDENCE SHALL BE A TYPE B UNIT.

EXCEPTION: THE NUMBER OF TYPE B UNITS IS PERMITTED TO BE REDUCED IN ACCORDANCE WITH SECTION 1107.7.

1107.7 GENERAL EXCEPTIONS.

WHERE SPECIFICALLY PERMITTED BY SECTIONS 107.5 OR 1107.6, THE REQUIRED NUMBER OF TYPE A UNITS AND TYPE B UNITS IS PERMITTED TO BE REDUCED IN ACCORDANCE WITH SECTIONS 1107.7.1 THROUGH 1107.7.5.

1107.7.1 STRUCTURES WITHOUT ELEVATOR SERVICE.

WHERE NO ELEVATOR SERVICE IS PROVIDED IN A STRUCTURE, ONLY THE DWELLING UNITS AND SLEEPING UNITS LOCATED ON STORIES INDICATED IN SECTIONS 1107.7.1.1 AND 1107.7.1.2 ARE REQUIRED TO BE TYPE A UNITS AND TYPE B UNITS, RESPECTIVELY. THE NUMBER OF TYPE A UNITS SHALL BE DETERMINED IN ACCORDANCE WITH SECTION 1107.6.2.2.1.

1107.7.1.1 ONE STORY WITH TYPE B UNITS REQUIRED.

AT LEAST ONE STORY CONTAINING DWELLING UNITS OR SLEEPING UNITS INTENDED TO BE OCCUPIED AS A RESIDENCE SHALL BE PROVIDED WITH AN ACCESSIBLE ENTRANCE FROM THE EXTERIOR OF THE STRUCTURE AND ALL UNITS INTENDED TO BE OCCUPIED AS A RESIDENCE ON THAT STORY SHALL BE TYPE B UNITS.

1107.7.1.2 ADDITIONAL STORIES WITH TYPE B UNITS.

ON ALL OTHER STORIES THAT HAVE A BUILDING ENTRANCE IN PROXIMITY TO ARRIVAL POINTS INTENDED TO SERVE UNITS ON THAT STORY, AS INDICATED IN ITEMS 1 AND 2, ALL DWELLING UNITS AND SLEEPING UNITS INTENDED TO BE OCCUPIED AS A RESIDENCE SERVED BY THAT ENTRANCE ON THAT STORY SHALL BE TYPE B UNITS.

1. WHERE THE SLOPES OF THE UNDISTURBED SITE MEASURED BETWEEN THE PLANNED ENTRANCE AND ALL VEHICULAR OR PEDESTRIAN ARRIVAL POINTS WITHIN 50 FEET OF THE PLANNED ENTRANCE ARE 10 PERCENT OR LESS, AND
2. WHERE THE SLOPES OF THE PLANNED FINISHED GRADE MEASURED BETWEEN THE ENTRANCE AND ALL VEHICULAR OR PEDESTRIAN ARRIVAL POINTS WITHIN 50 FEET OF THE PLANNED ENTRANCE ARE 10 PERCENT OR LESS.

WHERE NO SUCH ARRIVAL POINTS ARE WITHIN 50 FEET OF THE ENTRANCE, THE CLOSEST ARRIVAL POINT SHALL BE USED UNLESS THAT ARRIVAL POINT SERVES THE STORY REQUIRED BY SECTION 1107.7.1.1.

1107.7.2 MULTISTORY UNITS.

A MULTISTORY DWELLING UNIT OR SLEEPING UNIT WHICH IS NOT PROVIDED WITH ELEVATOR SERVICE IS NOT REQUIRED TO BE A TYPE B UNIT. WHERE A MULTISTORY UNIT IS PROVIDED WITH EXTERNAL ELEVATOR SERVICE TO ONLY ONE FLOOR, THE FLOOR PROVIDED WITH ELEVATOR SERVICE SHALL BE THE PRIMARY ENTRY TO THE UNIT, SHALL COMPLY WITH THE REQUIREMENTS FOR A TYPE B UNIT AND, WHERE PROVIDED WITHIN THE UNIT, A LIVING AREA, A KITCHEN AND A TOILET FACILITY SHALL BE PROVIDED ON THAT FLOOR.

1107.7.3 ELEVATOR SERVICE TO THE LOWEST STORY WITH UNITS.

WHERE ELEVATOR SERVICE IN THE BUILDING PROVIDES AN ACCESSIBLE ROUTE ONLY TO THE LOWEST STORY CONTAINING DWELLING OR SLEEPING UNITS INTENDED TO BE OCCUPIED AS A RESIDENCE, ONLY THE UNITS ON THAT STORY WHICH ARE INTENDED TO BE OCCUPIED AS A RESIDENCE ARE REQUIRED TO BE TYPE B UNITS.

1107.7.4 SITE IMPRACTICALITY.

ON A SITE WITH MULTIPLE NONELEVATOR BUILDINGS, THE NUMBER OF UNITS REQUIRED BY SECTION 1107.7.1 TO BE TYPE B UNITS IS PERMITTED TO BE REDUCED TO A PERCENTAGE WHICH IS EQUAL TO THE PERCENTAGE OF THE ENTIRE SITE HAVING GRADES, PRIOR TO DEVELOPMENT, WHICH ARE LESS THAN 10 PERCENT, PROVIDED THAT ALL OF THE FOLLOWING CONDITIONS ARE MET:

1. NOT LESS THAN 20 PERCENT OF THE UNITS REQUIRED BY SECTION 1107.7.1 ON THE SITE ARE TYPE B UNITS;
2. UNITS REQUIRED BY SECTION 1107.7.1, WHERE THE SLOPE BETWEEN THE BUILDING ENTRANCE SERVING THE UNITS ON THAT STORY AND A PEDESTRIAN OR VEHICULAR ARRIVAL POINT IS NO GREATER THAN 8.33 PERCENT, ARE TYPE B UNITS;
3. UNITS REQUIRED BY SECTION 1107.7.1, WHERE AN ELEVATED WALKWAY IS PLANNED BETWEEN A BUILDING ENTRANCE SERVING THE UNITS ON THAT STORY AND A PEDESTRIAN OR VEHICULAR ARRIVAL POINT AND THE SLOPE BETWEEN THEM IS 10 PERCENT OR LESS ARE TYPE B UNITS; AND
4. UNITS SERVED BY AN ELEVATOR IN ACCORDANCE WITH SECTION 1107.7.3 ARE TYPE B UNITS.

1107.7.5 DESIGN FLOOD ELEVATION.

THE REQUIRED NUMBER OF TYPE A UNITS AND TYPE B UNITS SHALL NOT APPLY TO A SITE WHERE THE REQUIRED ELEVATION OF THE LOWEST FLOOR OR THE LOWEST HORIZONTAL STRUCTURAL BUILDING MEMBERS OF NONELEVATOR BUILDINGS ARE AT OR ABOVE THE DESIGN FLOOD ELEVATION RESULTING IN:

1. A DIFFERENCE IN ELEVATION BETWEEN THE MINIMUM REQUIRED FLOOR ELEVATION AT THE PRIMARY ENTRANCES AND VEHICULAR AND PEDESTRIAN ARRIVAL POINTS WITHIN 50 FEET EXCEEDING 30 INCHES, AND
2. A SLOPE EXCEEDING 10 PERCENT BETWEEN THE MINIMUM REQUIRED FLOOR ELEVATION AT THE PRIMARY ENTRANCES AND VEHICULAR AND PEDESTRIAN ARRIVAL POINTS WITHIN 50 FEET.

WHERE NO SUCH ARRIVAL POINTS ARE WITHIN 50 FEET OF THE PRIMARY ENTRANCES, THE CLOSEST ARRIVAL POINTS SHALL BE USED.

SECTION 1108 - SPECIAL OCCUPANCIES

1108.1 GENERAL.

IN ADDITION TO THE OTHER ELEMENTS OF THIS CHAPTER, THE REQUIREMENTS OF SECTION 1108.2 THROUGH 1108.4 SHALL APPLY TO SPECIFIC OCCUPANCIES.

1108.2 ASSEMBLY AREA SEATING.

A BUILDING, ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH FIXED SEATING SHALL COMPLY WITH SECTIONS 1108.2.1 THROUGH 1108.2.5. LAWN SEATING SHALL COMPLY WITH SECTION 1108.2.6. ASSISTIVE LISTENING SYSTEMS SHALL COMPLY WITH SECTION 1108.2.7. PERFORMANCE AREAS VIEWED FROM ASSEMBLY SEATING AREAS SHALL COMPLY WITH SECTION 1108.2.8. DINING AREAS SHALL COMPLY WITH SECTION 1108.2.9.

1108.2.1 SERVICES.

IF A SERVICE OR FACILITY IS PROVIDED IN AN AREA THAT IS NOT ACCESSIBLE, THE SAME SERVICE OR FACILITY SHALL BE PROVIDED ON AN ACCESSIBLE LEVEL AND SHALL BE ACCESSIBLE.

1108.2.2 WHEELCHAIR SPACES.

IN ROOMS AND SPACES USED FOR ASSEMBLY PURPOSES WITH FIXED SEATING, ACCESSIBLE WHEELCHAIR SPACES SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 1108.2.2.1 THROUGH 1108.2.2.3.

1108.2.2.1 GENERAL SEATING.

WHEELCHAIR SPACES SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1108.2.2.1.

1108.2.3 COMPANION SEATS.

AT LEAST ONE COMPANION SEAT SHALL BE PROVIDED FOR EACH WHEELCHAIR SPACE REQUIRED BY SECTION 1108.2.2.1 THROUGH 1108.2.2.3.

NOTE:
ELEMENTS THAT ARE NOT APPLICABLE HAVE BEEN
OMMITTED.

TABLE 1108.2.2.1
ACCESSIBLE WHEELCHAIR SPACES

CAPACITY OF SEATING IN ASSEMBLY AREAS	MINIMUM REQUIRED NUMBER OF WHEELCHAIR SPACES
4 to 25	1
26 to 50	2
51 to 100	4
101 to 300	5
301 to 500	6
501 to 5,000	6, plus one for each 150, or fraction thereof, between 501 through 5,000
5,001 and over	36, plus 1 for each 200, or fraction thereof, over 5,000

1108.2.4 DISPERSION OF WHEELCHAIR SPACES IN MULTILEVEL ASSEMBLY SEATING AREAS.

IN MULTILEVEL ASSEMBLY SEATING AREAS, WHEELCHAIR SPACES SHALL BE PROVIDED ON THE MAIN FLOOR LEVEL AND ON ONE OF EACH TWO ADDITIONAL FLOOR OR MEZZANINE LEVELS. WHEELCHAIR SPACES SHALL BE PROVIDED IN EACH LUXURY BOX, CLUB BOX AND SUITE WITHIN ASSEMBLY FACILITIES.

EXCEPTIONS:

1. OMITTED (NOT APPLICABLE).
2. IN MULTILEVEL ASSEMBLY SEATING AREAS WHERE THE SECOND FLOOR OR MEZZANINE LEVEL PROVIDES 25 PERCENT OR LESS OF THE TOTAL SEATING CAPACITY AND 300 OR FEWER SEATS, ALL WHEELCHAIR SPACES SHALL BE PERMITTED TO BE LOCATED ON THE MAIN LEVEL.

1108.2.5 DESIGNATED AISLE SEATS.

AT LEAST 5 PERCENT, BUT NOT LESS THAN ONE, OF THE TOTAL NUMBER OF AISLE SEATS PROVIDED SHALL BE DESIGNATED AISLE SEATS AND SHALL BE THE AISLE SEAT LOCATED CLOSEST TO ACCESSIBLE ROUTES.

EXCEPTION: DESIGNATED AISLE SEATS ARE NOT REQUIRED AT TEAM OR PLAYER SEATING SERVING AREAS OF SPORT ACTIVITY.

1108.2.8 PERFORMANCE AREAS.

AN ACCESSIBLE ROUTE SHALL DIRECTLY CONNECT THE PERFORMANCE AREA TO THE ASSEMBLY SEATING AREA WHERE A CIRCULATION PATH DIRECTLY CONNECTS A PERFORMANCE AREA TO AN ASSEMBLY SEATING AREA. AN ACCESSIBLE ROUTE SHALL BE PROVIDED FROM PERFORMANCE AREAS TO ANCILLARY AREAS OR FACILITIES USED BY PERFORMERS.

1108.2.9 DINING AND DRINKING AREAS.

IN DINING AND DRINKING AREAS, ALL INTERIOR AND EXTERIOR FLOOR AREAS SHALL BE ACCESSIBLE AND BE ON AN ACCESSIBLE ROUTE.

EXCEPTIONS:

1. AN ACCESSIBLE ROUTE BETWEEN ACCESSIBLE LEVELS AND STORIES ABOVE OR BELOW IS NOT REQUIRED WHERE PERMITTED BY SECTION 1104.4, EXCEPTION 1.
2. AN ACCESSIBLE ROUTE TO DINING AND DRINKING AREAS IN A MEZZANINE IS NOT REQUIRED, PROVIDED THAT THE MEZZANINE CONTAINS LESS THAN 25 PERCENT OF THE TOTAL COMBINED AREA FOR DINING AND DRINKING AND THE SAME SERVICES, AND DECOR ARE PROVIDED IN THE ACCESSIBLE AREA.
3. OMITTED (NOT APPLICABLE).
4. EMPLOYEE-ONLY WORK AREAS SHALL COMPLY WITH SECTIONS 1103.2.2 AND 1104.3.1.

1108.2.9.1 DINING SURFACES.

WHERE DINING SURFACES FOR THE CONSUMPTION OF FOOD OR DRINK ARE PROVIDED, AT LEAST 5 PERCENT, BUT NOT LESS THAN ONE, OF THE DINING SURFACES FOR THE SEATING AND STANDING SPACES SHALL BE ACCESSIBLE AND BE DISTRIBUTED THROUGHOUT THE FACILITY AND LOCATED ON A LEVEL ACCESSED BY AN ACCESSIBLE ROUTE.

1108.3 SELF-SERVICE STORAGE FACILITIES.

SELF-SERVICE STORAGE FACILITIES SHALL PROVIDE ACCESSIBLE INDIVIDUAL SELF-STORAGE SPACES IN ACCORDANCE WITH TABLE 1108.3

TABLE 1108.3
ACCESSIBLE SELF-SERVICE STORAGE FACILITIES

TOTAL SPACES IN FACILITY	MINIMUM NUMBER OF REQUIRED ACCESSIBLE SPACES
1 to 200	5% but not less than 1
Over 200	10, plus 2% of total number of units over 200

1108.3.1 DISPERSION.

ACCESSIBLE INDIVIDUAL SELF-SERVICE STORAGE SPACES SHALL BE DISPERSED THROUGHOUT THE VARIOUS CLASSES OF SPACES PROVIDED. WHERE MORE CLASSES OF SPACES ARE PROVIDED THAN THE NUMBER OF REQUIRED ACCESSIBLE SPACES, THE NUMBER OF ACCESSIBLE SPACES SHALL NOT BE REQUIRED TO EXCEED THAT REQUIRED BY TABLE 1108.3. ACCESSIBLE SPACES ARE PERMITTED TO BE DISPERSED IN A SINGLE BUILDING IN A MULTIBUILDING FACILITY.

SECTION 1109 - OTHER FEATURES AND FACILITIES

1109.1 GENERAL.

ACCESSIBLE BUILDING FEATURES AND FACILITIES SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 1109.2 THROUGH 1109.15.

EXCEPTION: ACCESSIBLE UNITS, TYPE A UNITS AND TYPE B UNITS SHALL COMPLY WITH CHAPTER 10 OF ICC A117.1.

1109.2 TOILET AND BATHING FACILITIES.

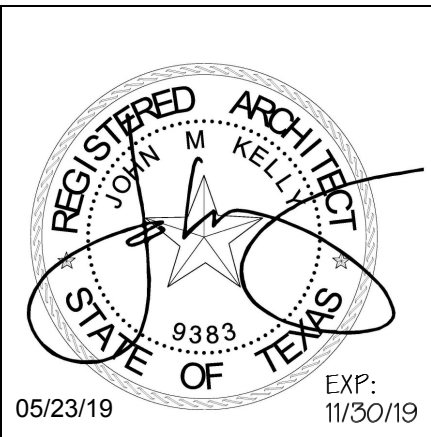
EACH TOILET ROOM AND BATHING ROOM SHALL BE ACCESSIBLE. WHERE A FLOOR LEVEL IS NOT REQUIRED TO BE CONNECTED BY AN ACCESSIBLE ROUTE, THE ONLY TOILET ROOMS OR BATHING ROOMS PROVIDED WITHIN THE FACILITY SHALL NOT BE LOCATED ON THE INACCESSIBLE FLOOR, EXCEPT AS PROVIDED FOR IN SECTIONS 1109.2.2 AND 1109.2.3. AT LEAST ONE OF EACH TYPE OF FIXTURE, ELEMENT, CONTROL OR DISPENSER IN EACH ACCESSIBLE TOILET ROOM AND BATHING ROOM SHALL BE ACCESSIBLE.

EXCEPTIONS:

1. TOILET ROOMS OR BATHING ROOMS ACCESSED ONLY THROUGH A PRIVATE OFFICE, NOT FOR COMMON OR PUBLIC USE AND INTENDED FOR USE BY A SINGLE OCCUPANT, SHALL BE PERMITTED TO COMPLY WITH THE SPECIFIC EXCEPTIONS IN ICC A117.1.
2. THIS SECTION IS NOT APPLICABLE TO TOILET AND BATHING ROOMS THAT SERVE DWELLING UNITS OR SLEEPING UNITS THAT ARE NOT REQUIRED TO BE ACCESSIBLE BY SECTION 1107.
3. WHERE MULTIPLE SINGLE-USER TOILET ROOMS OR BATHING ROOMS ARE CLUSTERED AT A SINGLE LOCATION, AT LEAST 50 PERCENT BUT NOT LESS THAN ONE ROOM FOR EACH USE AT EACH CLUSTER SHALL BE ACCESSIBLE.
4. WHERE NO MORE THAN ONE URINAL IS PROVIDED IN A TOIL ROOM OR BATHING ROOM, THE URINAL IS NOT REQUIRED TO BE ACCESSIBLE.

CONTINUED ON NEXT SHEET

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2015 INTERNATIONAL BUILDING CODE CHAPTER 11 - ACCESSIBILITY (Continued)

1109.2.2 WATER CLOSET COMPARTMENT.

WHERE WATER CLOSET COMPARTMENTS ARE PROVIDED IN A TOILET ROOM OR BATHING ROOM, AT LEAST 5 PERCENT OF THE TOTAL NUMBER OF COMPARTMENTS SHALL BE WHEELCHAIR ACCESSIBLE. WHERE THE COMBINED TOTAL WATER CLOSET COMPARTMENTS AND URINALS PROVIDED IN A TOILET ROOM OR BATHING ROOM IS SIX OR MORE, AT LEAST 5 PERCENT OF THE TOTAL NUMBER OF COMPARTMENTS SHALL BE AMBULATORY ACCESSIBLE, PROVIDED IN ADDITION TO THE WHEELCHAIR-ACCESSIBLE COMPARTMENT.

1109.2.3 LAVATORIES.

WHERE LAVATORIES ARE PROVIDED, AT LEAST 5 PERCENT, BUT NOT LESS THAN ONE, SHALL BE ACCESSIBLE. WHERE AN ACCESSIBLE LAVATORY IS LOCATED WITHIN THE ACCESSIBLE WATER CLOSET COMPARTMENT AT LEAST ONE ADDITIONAL ACCESSIBLE LAVATORY SHALL BE PROVIDED IN THE MULTICOMPARTMENT TOILET ROOM OUTSIDE THE WATER CLOSET COMPARTMENT. WHERE THE TOTAL LAVATORIES PROVIDED IN A TOILET ROOM OR BATHING FACILITY IS SIX OR MORE, AT LEAST ONE LAVATORY WITH ENHANCED REACH RANGES SHALL BE PROVIDED.

1109.3 SINKS.

WHERE SINKS ARE PROVIDED, AT LEAST 5 PERCENT BUT NOT LESS THAN ONE PROVIDED IN ACCESSIBLE SPACES SHALL BE ACCESSIBLE.

EXCEPTION: MOP OR SERVICE SINKS ARE NOT REQUIRED TO BE ACCESSIBLE.

1109.4 KITCHENS AND KITCHENETTES.

WHERE KITCHENS AND KITCHENETTES ARE PROVIDED IN ACCESSIBLE SPACES OR ROOMS, THEY SHALL BE ACCESSIBLE.

1109.5 DRINKING FOUNTAINS.

WHERE DRINKING FOUNTAINS ARE PROVIDED ON AN EXTERIOR SITE, ON A FLOOR OR WITHIN A SECURED AREA, THE DRINKING FOUNTAINS SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 1109.5.1 AND 1109.5.2.

1109.5.1 MINIMUM NUMBER.

NO FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED. ONE DRINKING FOUNTAIN SHALL COMPLY WITH THE REQUIREMENTS FOR PEOPLE WHO USE A WHEELCHAIR AND ONE DRINKING FOUNTAIN SHALL COMPLY WITH THE REQUIREMENTS FOR STANDING PERSONS.

EXCEPTIONS:

- 1. A SINGLE DRINKING FOUNTAIN WITH TWO SEPARATE SPOUTS THAT COMPLIES WITH THE REQUIREMENTS FOR PEOPLE WHO USE A WHEELCHAIR AND STANDING PERSONS SHALL BE PERMITTED TO BE SUBSTITUTED FOR TWO SEPARATE DRINKING FOUNTAINS.
- 2. OMITTED (NOT APPLICABLE).

1109.5.2 MORE THAN THE MINIMUM NUMBER.

WHERE MORE THAN THE MINIMUM NUMBER OF DRINKING FOUNTAINS SPECIFIED IN SECTION 1109.5.1 ARE PROVIDED, 50 PERCENT OF THE TOTAL NUMBER OF DRINKING FOUNTAINS PROVIDED SHALL COMPLY WITH THE REQUIREMENTS FOR PERSONS WHO USE A WHEELCHAIR AND 50 PERCENT OF THE TOTAL NUMBER OF DRINKING FOUNTAINS PROVIDED SHALL COMPLY WITH THE REQUIREMENTS FOR STANDING PERSONS.

EXCEPTIONS:

- 1. WHERE 50 PERCENT OF THE DRINKING FOUNTAINS YIELDS A FRACTION, 50 PERCENT SHALL BE PERMITTED TO BE ROUNDED UP OR DOWN, PROVIDED THAT THE TOTAL NUMBER OF DRINKING FOUNTAINS COMPLYING WITH THIS SECTION EQUALS 100 PERCENT OF THE DRINKING FOUNTAINS.
- 2. OMITTED (NOT APPLICABLE)

1109.6 SAUNAS AND STEAM ROOMS.

WHERE PROVIDED, SAUNAS AND STEAM ROOMS SHALL BE ACCESSIBLE.

EXCEPTION: WHERE SAUNAS OR STEAM ROOMS ARE CLUSTERED AT A SINGLE LOCATION, AT LEAST 5 PERCENT OF THE SAUNAS AND STEAM ROOMS, BUT NOT LESS THAN ONE, OF EACH TYPE IN EACH CLUSTER SHALL BE ACCESSIBLE.

1109.7 ELEVATORS.

PASSENGER ELEVATORS ON AN ACCESSIBLE ROUTE SHALL BE ACCESSIBLE AND COMPLY WITH CHAPTER 30.

1109.8 LIFTS.

PLATFORM (WHEELCHAIR) LIFTS ARE PERMITTED TO BE A PART OF A REQUIRED ACCESSIBLE ROUTE IN NEW CONSTRUCTION WHERE INDICATED IN ITEMS 1 THROUGH 10. PLATFORM (WHEELCHAIR) LIFTS SHALL BE INSTALLED IN ACCORDANCE WITH ASME A18.1.

- 1. AN ACCESSIBLE ROUTE TO A PERFORMING AREA AND SPEAKER PLATFORMS.

- 2. AN ACCESSIBLE ROUTE TO WHEELCHAIR SPACES REQUIRED TO COMPLY WITH THE WHEELCHAIR SPACE DISPERSION REQUIREMENTS OF SECTIONS 1109.2.2 THROUGH 1109.2.6.

- 3. AN ACCESSIBLE ROUTE TO SPACES THAT ARE NOT OPEN TO THE GENERAL PUBLIC WITH AN OCCUPANT LOAD OF NOT MORE THAN FIVE.

- 4. AN ACCESSIBLE ROUTE WITHIN AN INDIVIDUAL DWELLING UNIT OR SLEEPING UNIT REQUIRED TO BE AN ACCESSIBLE UNIT, TYPE A UNIT OR TYPE B UNIT.

- 5. OMITTED (NOT APPLICABLE).

- 6. OMITTED (NOT APPLICABLE).

- 7. AN ACCESSIBLE ROUTE TO PLAY COMPONENTS OR SOFT CONTAINED PLAY STRUCTURES.

- 8. AN ACCESSIBLE ROUTE TO TEAM OR PLAYER SEATING AREAS SERVING AREAS OF SPORT ACTIVITY.

- 9. OMITTED (NOT APPLICABLE).

- 10. AN ACCESSIBLE ROUTE WHERE EXISTING EXTERIOR SITE CONSTRAINTS MAKE USE OF A RAMP OR ELEVATOR INFEASIBLE

1109.9 STORAGE.

WHERE FIXED OR BUILT-IN STORAGE ELEMENTS SUCH AS CABINETS, COAT HOOKS, SHELVES, MEDICINE CABINETS, LOCKERS, CLOSETS AND DRAWERS ARE PROVIDED IN REQUIRED ACCESSIBLE SPACES, AT LEAST 5 PERCENT, BUT NOT LESS THAN ONE OF EACH TYPE SHALL BE ACCESSIBLE.

1109.9.1 EQUITY.

ACCESSIBLE FACILITIES AND SPACES SHALL BE PROVIDED WITH THE SAME STORAGE ELEMENTS AS PROVIDED IN THE SIMILAR NONACCESSIBLE FACILITIES AND SPACES.

1109.9.2 SHELVING AND DISPLAY UNITS.

SELF-SERVICE SHELVES AND DISPLAY UNITS SHALL BE LOCATED ON AN ACCESSIBLE ROUTE. SUCH SHELVING AND DISPLAY UNITS SHALL NOT BE REQUIRED TO COMPLY WITH REACH-RANGE PROVISIONS.

1109.11 SEATING AT TABLES, COUNTERS AND WORK SURFACES.

WHERE SEATING OR STANDING SPACE AT FIXED OR BUILT-IN TABLES, COUNTERS OR WORK SURFACES IS PROVIDED IN ACCESSIBLE SPACES, AT LEAST 5 PERCENT OF THE SEATING AND STANDING SPACES, BUT NOT LESS THAN ONE, SHALL BE ACCESSIBLE.

EXCEPTION: CHECK-WRITING SURFACES AT CHECK-OUT AISLES NOT REQUIRED TO COMPLY WITH SECTION 1109.12.2 ARE NOT REQUIRED TO BE ACCESSIBLE.

1109.11.1 DISPERSION.

ACCESSIBLE FIXED OR BUILT-IN SEATING AT TABLES, COUNTERS OR WORK SURFACES SHALL BE DISTRIBUTED THROUGHOUT THE SPACE OR FACILITY CONTAINING SUCH ELEMENTS AND LOCATED ON A LEVEL ACCESSED BY AN ACCESSIBLE ROUTE.

1109.12 SERVICE FACILITIES.

SERVICE FACILITIES SHALL PROVIDE FOR ACCESSIBLE FEATURES IN ACCORDANCE WITH SECTIONS 1109.12.1 THROUGH 1109.12.5.

1109.12.1 DRESSING, FITTING AND LOCKER ROOMS.

WHERE DRESSING ROOMS, FITTING ROOMS OR LOCKER ROOMS ARE PROVIDED, AT LEAST 5 PERCENT, BUT NOT LESS THAN ONE, OF EACH TYPE OF USE IN EACH CLUSTER PROVIDED SHALL BE ACCESSIBLE.

1109.12.2 CHECK-OUT AISLES.

WHERE CHECK-OUT AISLES ARE PROVIDED, ACCESSIBLE CHECK-OUT AISLES SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1109.12.2. WHERE CHECK-OUT AISLES SERVE DIFFERENT FUNCTIONS, ACCESSIBLE CHECK-OUT AISLES SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 1109.12.2 FOR EACH FUNCTION WHERE CHECK-OUT AISLES ARE DISPERSED THROUGHOUT THE THE BUILDING OR FACILITY, ACCESSIBLE CHECK-OUT AISLES SHALL ALSO BE DISPERSED. TRAFFIC CONTROL DEVICES, SECURITY DEVICES AND TURNSTILES LOCATED IN ACCESSIBLE CHECK-OUT AISLES OR LANES SHALL BE ACCESSIBLE.

EXCEPTION: WHERE THE PUBLIC USE AREA IS UNDER 5,000 SQUARE FEET NOT MORE THAN ONE ACCESSIBLE CHECK-OUT AISLE SHALL BE REQUIRED.

TABLE 1109.12.2
ACCESSIBLE CHECK-OUT AISLES

TOTAL CHECK-OUT AISLES OF EACH FUNCTION	MINIMUM NUMBER OF ACCESSIBLE CHECK-OUT AISLES OF EACH FUNCTION
1 to 4	1
5 to 8	2
9 to 15	3
Over 15	3, plus 20% of additional aisles

1109.12.3 POINT OF SALE AND SERVICE COUNTERS.

WHERE COUNTERS ARE PROVIDED FOR SALES OR DISTRIBUTION OF GOODS OR SERVICES, AT LEAST ONE OF EACH TYPE PROVIDED SHALL BE ACCESSIBLE. WHERE SUCH COUNTERS ARE DISPERSED THROUGHOUT THE BUILDING OR FACILITY, ACCESSIBLE COUNTERS SHALL ALSO BE DISPERSED.

1109.12.4 FOOD SERVICE LINES.

FOOD SERVICE LINES SHALL BE ACCESSIBLE. WHERE SELF-SERVICE SHELVES ARE PROVIDED, AT LEAST 50 PERCENT, BUT NOT LESS THAN ONE, OF EACH TYPE PROVIDED SHALL BE ACCESSIBLE.

1109.12.5 QUEUE AND WAITING LINES.

QUEUE AND WAITING LINES SERVING ACCESSIBLE COUNTERS OR CHECK-OUT AISLES SHALL BE ACCESSIBLE

1109.13 CONTROLS, OPERATING MECHANISMS AND HARDWARE.

CONTROLS, OPERATING MECHANISMS AND HARDWARE INTENDED FOR OPERATION BY THE OCCUPANT, INCLUDING SWITCHES THAT CONTROL LIGHTING AND VENTILATION AND ELECTRICAL CONVENIENCE OUTLETS, IN ACCESSIBLE SPACES, ALONG ACCESSIBLE ROUTES OR AS PARTS OF ACCESSIBLE ELEMENTS SHALL BE ACCESSIBLE.

EXCEPTIONS:

- 1. OPERABLE PARTS THAT ARE INTENDED FOR USE ONLY BY SERVICE OR MAINTENANCE PERSONNEL SHALL NOT BE REQUIRED TO BE ACCESSIBLE.
- 2. ELECTRICAL OR COMMUNICATION RECEPTACLES SERVING A DEDICATED USE SHALL NOT BE REQUIRED TO BE ACCESSIBLE.
- 3. WHERE TWO OR MORE OUTLETS ARE PROVIDED IN A KITCHEN ABOVE A LENGTH OF COUNTER TOP THAT IS UNINTERRUPTED BY A SINK OR APPLIANCE, ONE OUTLET SHALL NOT BE REQUIRED TO BE ACCESSIBLE.
- 4. FLOOR ELECTRICAL RECEPTACLES SHALL NOT BE REQUIRED TO BE ACCESSIBLE.
- 5. HVAC DIFFUSERS SHALL NOT BE REQUIRED TO BE ACCESSIBLE.
- 6. EXCEPT FOR LIGHT SWITCHES, WHERE REDUNDANT CONTROLS ARE PROVIDED FOR A SINGLE ELEMENT, ONE CONTROL IN EACH SPACE SHALL NOT BE REQUIRED TO BE ACCESSIBLE
- 7. ACCESS DOORS OR GATES IN BARRIER WALLS AND FENCES PROTECTING POOLS, SPAS AND HOT TUBS SHALL BE PERMITTED TO COMPLY WITH SECTION 1010.13.2.

SECTION 1110 - RECREATIONAL FACILITIES

1110.1 GENERAL.

RECREATIONAL FACILITIES SHALL BE PROVIDED WITH ACCESSIBLE FEATURES IN ACCORDANCE WITH SECTIONS 1110.2 THROUGH 1110.4.

1110.2 FACILITIES SERVING GROUP R-2 OCCUPANCIES.

RECREATIONAL FACILITIES THAT SERVE GROUP R-2 SHALL COMPLY WITH SECTIONS 1110.2.1 THROUGH 1110.2.3, AS APPLICABLE.

1110.2.2 FACILITIES SERVING TYPE A AND TYPE B UNITS IN A SINGLE BUILDING.

IN GROUP R-2 OCCUPANCIES WHERE RECREATIONAL FACILITIES SERVE A SINGLE BUILDING CONTAINING TYPE A UNITS OR TYPE B UNITS, 25 PERCENT, BUT NOT LESS THAN ONE, OF EACH TYPE OF RECREATIONAL FACILITY SHALL BE ACCESSIBLE. EVERY RECREATIONAL FACILITY OF EACH TYPE ON A SITE SHALL BE CONSIDERED TO DETERMINE THE TOTAL NUMBER OF EACH TYPE THAT IS REQUIRED TO BE ACCESSIBLE.

1110.2.3 FACILITIES SERVING TYPE A AND TYPE B UNITS IN MULTIPLE BUILDINGS.

IN GROUP R-2 OCCUPANCIES ON A SINGLE SITE WHERE MULTIPLE BUILDINGS CONTAINING TYPE A UNITS OR TYPE B UNITS ARE SERVED BY RECREATIONAL FACILITIES, 25 PERCENT, BUT NOT LESS THAN ONE, OF EACH TYPE OF RECREATIONAL FACILITY SERVING EACH BUILDING SHALL BE ACCESSIBLE. THE TOTAL NUMBER OF EACH TYPE OF RECREATIONAL FACILITY THAT IS REQUIRED TO BE ACCESSIBLE SHALL BE DETERMINED BY CONSIDERING EVERY RECREATIONAL FACILITY OF EACH TYPE SERVING EACH BUILDING ON THE SITE.

1110.4 RECREATIONAL FACILITIES.

RECREATIONAL FACILITIES SHALL BE ACCESSIBLE AND SHALL BE ON AN ACCESSIBLE ROUTE TO THE EXISTENT SPECIFIED IN THIS SECTION.

1110.4.1 AREA OF SPORT ACTIVITY

EACH AREA OF SPORT ACTIVITY SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL NOT BE REQUIRED TO BE ACCESSIBLE EXCEPT AS PROVIDED FOR IN SECTIONS 1110.4.2 THROUGH 1110.4.14.

1110.4.2 TEAM OR PLAYER SEATING.

AT LEAST ONE WHEELCHAIR SPACE SHALL BE PROVIDED IN TEAM OR PLAYER SEATING AREAS SERVING AREAS OF SPORT ACTIVITY.

EXCEPTION: WHEELCHAIR SPACES SHALL NOT BE REQUIRED TO TEAM OR PLAYER SEATING AREAS SERVING BOWLING LANES THAT ARE NOT REQUIRED TO BE ACCESSIBLE IN ACCORDANCE WITH SECTION 1110.4.3.

1110.4.3 BOWLING LANES.

AN ACCESSIBLE ROUTE SHALL BE PROVIDED TO AT LEAST 5 PERCENT, BUT NOT LESS THAN ONE, OF EACH TYPE OF BOWLING LANE.

1110.4.4 COURT SPORTS.

IN COURT SPORTS, AT LEAST ONE ACCESSIBLE ROUTE SHALL DIRECTLY CONNECT BOTH SIDES OF THE COURT.

1110.4.5 THROUGH 1110.4.12

OMITTED (NOT APPLICABLE).

1110.4.10 EXERCISE MACHINES AND EQUIPMENT.

AT LEAST ONE OF EACH TYPE OF EXERCISE MACHINE AND EQUIPMENT SHALL BE ON AN ACCESSIBLE ROUTE.

1110.4.11 - 1110.4.12

OMITTED (NOT APPLICABLE)

1110.4.13 SWIMMING POOLS, WADING POOLS, HOT TUBS AND SPAS.

SWIMMING POOLS, WADING POOLS, HOT TUBS AND SPAS SHALL BE ACCESSIBLE AND BE ON AN ACCESSIBLE ROUTE.

EXCEPTIONS:

- 1. OMITTED (NOT APPLICABLE)
- 2. WHERE SPAS OR HOT TUBS ARE PROVIDED IN A CLUSTER, AT LEAST 5 PERCENT, BUT NOT LESS THAN ONE SPA OR HOT TUB IN EACH CLUSTER, SHALL BE ACCESSIBLE AND BE ON AN ACCESSIBLE ROUTE.
- 3. SWIMMING POOLS, WADING POOLS, SPAS AND HOT TUBS THAT ARE REQUIRED TO BE ACCESSIBLE BY SECTIONS 1110.2.2 AND 1110.2.3 ARE NOT REQUIRED TO PROVIDE ACCESSIBLE MEANS OF ENTRY INTO THE WATER.

NOTE:
ELEMENTS THAT ARE NOT APPLICABLE HAVE BEEN
OMMITTED.

RAISED DIVING BOARDS AND DIVING PLATFORMS ARE NOT REQUIRED TO BE ACCESSIBLE OR TO BE ON AN ACCESSIBLE ROUTE.

WATER SLIDES ARE NOT REQUIRED TO BE ACCESSIBLE OR TO BE ON AN ACCESSIBLE ROUTE.

1110.4.14 SHOOTING FACILITIES WITH FIRING POSITIONS.

WHERE SHOOTING FACILITIES WITH FIRING POSITIONS ARE DESIGNED AND CONSTRUCTED AT A SITE, AT LEAST 5 PERCENT, BUT NOT LESS THAN ONE, OF EACH TYPE OF FIRING POSITION SHALL BE ACCESSIBLE AND BE ON AN ACCESSIBLE ROUTE.

SECTION 1111 - SIGNAGE

1111.1 SIGNS.

REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT THE FOLLOWING LOCATIONS:

- 1. ACCESSIBLE PARKING SPACES REQUIRED BY SECTION 1106.1.
 - EXCEPTION: WHERE THE TOTAL NUMBER OF PARKING SPACES PROVIDED IS FOUR OR LESS, IDENTIFICATION OF ACCESSIBLE PARKING SPACES IS NOT REQUIRED.
- 2. ACCESSIBLE PARKING SPACES REQUIRED BY SECTION 1106.2.
 - EXCEPTION: IN GROUP R-2 FACILITIES, WHERE PARKING SPACES ARE ASSIGNED TO SPECIFIC DWELLING UNITS OR SLEEPING UNITS, IDENTIFICATION OF ACCESSIBLE PARKING SPACES IS NOT REQUIRED.
- 3. ACCESSIBLE PASSENGER LOADING ZONES.
- 4. ACCESSIBLE ROOMS WHERE MULTIPLE SINGLE-USER TOILET OR BATHING ROOMS ARE CLUSTERED AT A SINGLE LOCATION.
- 5. ACCESSIBLE ENTRANCES WHERE NOT ALL ENTRANCES ARE ACCESSIBLE.
- 6. ACCESSIBLE CHECK-OUT AISLES WHERE NOT ALL AISLES ARE ACCESSIBLE. THE SIGN, WHERE PROVIDED, SHALL BE ABOVE THE CHECK-OUT AISLE IN THE SAME LOCATION AS THE CHECK-OUT AISLE NUMBER OR TYPE OF CHECK-OUT IDENTIFICATION.
- 7. FAMILY OR ASSISTED-USE TOILET AND BATHING ROOMS.
- 8. ACCESSIBLE DRESSING, FITTING AND LOCKER ROOMS WHERE NOT ALL SUCH ROOMS ARE ACCESSIBLE.
- 9. ACCESSIBLE AREAS OF REFUGE IN ACCORDANCE WITH SECTION 1009.9.
- 10. EXTERIOR AREAS FOR ASSISTED RESCUE IN ACCORDANCE WITH SECTION 1009.9.
- 11. IN RECREATIONAL FACILITIES, LOCKERS THAT ARE REQUIRED TO BE ACCESSIBLE IN ACCORDANCE WITH SECTION 1109.9.

1111.2 DIRECTIONAL SIGNAGE.

DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST LIKE ACCESSIBLE ELEMENT SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS. THESE DIRECTIONAL SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND SIGN CHARACTERS SHALL MEET THE VISUAL CHARACTER REQUIREMENTS IN ACCORDANCE WITH ICC A117.1.

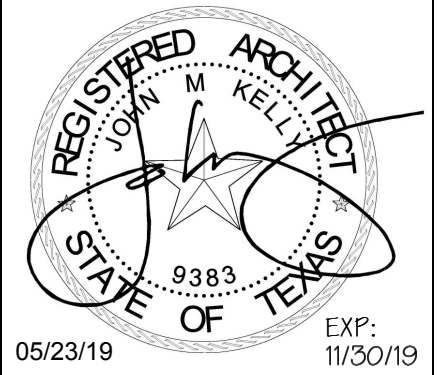
- 1. INACCESSIBLE BUILDING ENTRANCES.
- 2. INACCESSIBLE PUBLIC TOILETS AND BATHING FACILITIES.
- 3. ELEVATORS NOT SERVING AN ACCESSIBLE ROUTE.
- 4. AT EACH SEPARATE-SEX TOILET AND BATHING ROOM INDICATING THE LOCATION OF THE NEAREST FAMILY/ASSISTED-USE TOILET OR BATHING ROOM WHERE PROVIDED IN ACCORDANCE WITH SECTION 1109.2.1.
- 5. AT EXITS AND EXIT STAIRWAYS SERVING A REQUIRED ACCESSIBLE SPACE, BUT NOT PROVIDING AN APPROVED ACCESSIBLE MEANS OF EGRESS, SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1009.10.
- 6. WHERE DRINKING FOUNTAINS FOR PERSONS USING WHEELCHAIRS AND DRINKING FOUNTAINS FOR STANDING PERSONS ARE NOT LOCATED ADJACENT TO EACH OTHER, DIRECTIONAL SIGNAGE SHALL BE PROVIDED INDICATING THE LOCATION OF THE OTHER DRINKING FOUNTAINS.

1110.3 OTHER SIGNS.

SIGNAGE INDICATING SPECIAL ACCESSIBILITY PROVISIONS SHALL BE PROVIDED AS SHOWN:

- 1. EACH ASSEMBLY AREA REQUIRED TO COMPLY WITH SECTION 1109.2.7 SHALL PROVIDE A SIGN NOTIFYING PATRONS OF THE AVAILABILITY OF ASSISTIVE LISTENING SYSTEMS. THE SIGN SHALL COMPLY WITH ICC A117.1 REQUIREMENTS FOR VISUAL CHARACTERS AND INCLUDE THE INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS.
 - EXCEPTION: WHERE TICKET OFFICES OR WINDOWS ARE PROVIDED, SIGNS ARE NOT REQUIRED AT EACH ASSEMBLY AREA PROVIDED THAT SIGNS ARE DISPLAYED AT EACH TICKET OFFICE OR WINDOW INFORMING PATRONS OF THE AVAILABILITY OF ASSISTIVE LISTENING SYSTEMS.
- 2. AT EACH DOOR TO AN AREA OF REFUGE, AN EXTERIOR AREA FOR ASSISTED RESCUE, AN EGRESS STAIRWAY, EXIT PASSAGEWAY, AND EXIT DISCHARGE, SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1013.4.
- 3. AT AREAS OF REFUGE, SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1009.11.
- 4. AT EXTERIOR AREAS FOR ASSISTED RESCUE, SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1009.11.
- 5. AT TWO-WAY COMMUNICATION SYSTEMS, SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1009.8.2.
- 6. IN INTERIOR EXIT STAIRWAYS AND RAMPS, FLOOR LEVEL SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1023.9.

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MOONLIGHT GARDEN

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SHEET		
A1.3D_		

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN*

* WITH 11 EXCEPTIONS REMOVED OR MODIFIED TO COMPLY WITH SECTION 504 OF THE REHABILITATION ACT OF 1973 & HUD'S SECTION 504 REGULATION FOR NEW CONSTRUCTION AND ALTERATIONS.

CHAPTER 1: APPLICATION AND ADMINISTRATION

101 PURPOSE

101.1 GENERAL. THIS DOCUMENT CONTAINS SCOPING AND TECHNICAL REQUIREMENTS FOR ACCESSIBILITY TO SITES, FACILITIES, BUILDINGS, AND ELEMENTS BY INDIVIDUALS WITH DISABILITIES.

CHAPTER 2: SCOPING REQUIREMENTS

201 APPLICATION

201.1 SCOPE. ALL AREAS OF NEWLY DESIGNED AND NEWLY CONSTRUCTED BUILDINGS AND FACILITIES AND ALTERED PORTIONS OF EXISTING BUILDINGS AND FACILITIES SHALL COMPLY WITH THESE REQUIREMENTS. 201.2 APPLICATION BASED ON BUILDING OR FACILITY USE, WHERE A SITE, BUILDING, FACILITY, ROOM, OR SPACE CONTAINS MORE THAN ONE USE, EACH PORTION SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS FOR THAT USE.

201.3 TEMPORARY AND PERMANENT STRUCTURES. THESE REQUIREMENTS SHALL APPLY TO TEMPORARY AND PERMANENT BUILDINGS AND FACILITIES.

203 GENERAL EXCEPTIONS

203.1 GENERAL. SITES, BUILDINGS, FACILITIES, AND ELEMENTS ARE EXEMPT FROM THESE REQUIREMENTS TO THE EXTENT SPECIFIED BY 203.

203.2 CONSTRUCTION SITES, STRUCTURES AND SITES DIRECTLY ASSOCIATED WITH THE ACTUAL PROSSESSES OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, SCAFFOLDING, BRIDGING, MATERIALS HOISTS, MATERIALS STORAGE, AND CONSTRUCTION TRAILERS SHALL NOT BE REQUIRED TO COMPLY WITH THESE REQUIREMENTS OR TO BE ON AN ACCESSIBLE ROUTE. PORTABLE TOILET UNITS PROVIDED FOR USE EXCLUSIVELY BY CONSTRUCTION PERSONNEL ON A CONSTRUCTION SITE SHALL NOT BE REQUIRED TO COMPLY WITH 213 OR TO BE ON AN ACCESSIBLE ROUTE.

203.3 RAISED AREAS. AREAS RAISED PRIMARILY FOR PURPOSES OF SECURITY, LIFE SAFETY, OR FIRE SAFETY, INCLUDING BUT NOT LIMITED TO, OBSERVATION OR LOOKOUT GALLERIES, PRISON GUARD TOWERS, FIRE TOWERS, OR LIFE GUARD STANDS SHALL NOT BE REQUIRED TO COMPLY WITH THESE REQUIREMENTS OR TO BE ON AN ACCESSIBLE ROUTE.

203.4 LIMITED ACCESS SPACES. SPACES ACCESSED ONLY BY LADDERS, CATWALKS, CRAWL SPACES, OR VERY NARROW PASSAGEWAYS SHALL NOT BE REQUIRED TO COMPLY WITH THESE REQUIREMENTS OR TO BE ON AN ACCESSIBLE ROUTE.

203.5 MACHINERY SPACES. SPACES FREQUENTED ONLY BY SERVICE PERSONNEL FOR MAINTENANCE, REPAIR, OR OCCASIONAL MONITORING OF EQUIPMENT SHALL NOT BE REQUIRED TO COMPLY WITH THESE REQUIREMENTS OR TO BE ON AN ACCESSIBLE ROUTE. MACHINERY SPACES INCLUDE, BUT ARE NOT LIMITED TO, ELEVATOR PIT'S OR ELEVATOR CEN THOUSES; MECHANICAL, ELECTRICAL OR COMMUNICATIONS EQUIPMENT ROOMS; PIPING OR EQUIPMENT CATWALKS; WATER OR SEWAGE TREATMENT PUMP ROOMS AND STATIONS; ELECTRIC SUBSTATIONS AND TRANSFORMER VAULTS; AND HIGHWAY AND TUNNEL UTILITY FACILITIES.

203.6 SINGLE OCCUPANT STRUCTURES. OMITTED (NOT APPLICABLE).

203.7 DETENTION AND CORRECTIONAL FACILITIES. OMITTED (NOT APPLICABLE).

*203.8 RESIDENTIAL FACILITIES. REMOVED FOR NON COMPLIANCE WITH SECTION 504 OF THE REHABILITATION ACT OF 1973 & HUD'S SECTION 504 REGULATION FOR NEW CONSTRUCTION AND ALTERATIONS.

*203.9 EMPLOYEE WORK AREAS. REMOVED FOR NON COMPLIANCE WITH SECTION 504 OF THE REHABILITATION ACT OF 1973 & HUD'S SECTION 504 REGULATION FOR NEW CONSTRUCTION AND ALTERATIONS.

204 PROTRUDING OBJECTS

204.1 GENERAL. PROTRUDING OBJECTS ON CIRCULATION PATHS SHALL COMPLY WITH 307.

EXCEPTIONS:

1. WITHIN AREAS OF SPORT ACTIVITY, PROTRUDING OBJECTS ON CIRCULATION PATHS SHALL NOT BE REQUIRED TO COMPLY WITH 307.

2. WITHIN PLAY AREAS, PROTRUDING OBJECTS ON CIRCULATION PATHS SHALL NOT BE REQUIRED TO COMPLY WITH 307 PROVIDED THAT GROUND LEVEL ACCESSIBLE ROUTES PROVIDE VERTICAL CLEARANCE IN COMPLIANCE WITH 1008.2.

205 OPERABLE PARTS

205.1 GENERAL. OPERABLE PARTS ON ACCESSIBLE ELEMENTS, ACCESSIBLE ROUTES, AND IN ACCESSIBLE ROOMS AND SPACES SHALL COMPLY WITH 309.

EXCEPTIONS:

1. OPERABLE PARTS THAT ARE INTENDED FOR USE BY SERVICE OR MAINTENANCE PERSONNEL SHALL NOT BE REQUIRED TO COMPLY WITH 309.

2. ELECTRICAL OR COMMUNICATION RECEP TACLES SERVING A DEDICATED USE SHALL NOT BE REQUIRED TO COMPLY WITH 309.

3. WHERE TWO OR MORE OUTLETS ARE PROVIDED IN A KITCHEN ABOVE A LENGTH OF COUNTER TOP THAT IS INTERRUPTED BY A SINK OR APPLIANCE, ONE OUTLET SHALL NOT BE REQUIRED TO COMPLY WITH 309.

4. FLOOR ELECTRICAL RECEP TACLES SHALL NOT BE REQUIRED TO COMPLY WITH 309.

5. HVAC DIFFUSERS SHALL NOT BE REQUIRED TO COMPLY WITH 309.

6. EXCEPT FOR LIGHT SWITCHES, WHERE REDUNDANT CONTROLS ARE PROVIDED FOR A SINGLE ELEMENT, ONE CONTROL IN EACH SPACE SHALL NOT BE REQUIRED TO COMPLY WITH 309.

7. CLEATS AND OTHER BOAT SECUREMENT DEVICES SHALL NOT BE REQUIRED TO COMPLY WITH 309.3.

8. EXERCISE MACHINES AND EXERCISE EQUIPMENT SHALL NOT BE REQUIRED TO COMPLY WITH 309.

206 ACCESSIBLE ROUTES

206.2.1 SITE ARRIVAL POINTS. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES AND ACCESSIBLE PASSENGER LOADING ZONES; PUBLIC STREETS AND SIDEWALKS; AND PUBLIC TRANSPORTATION STOPS TO THE ACCESSIBLE BUILDING OR FACILITY ENTRANCE THEY SERVE.

EXCEPTIONS:

1. Omitted (Not applicable).

* 2. Removed for non compliance with Section 504 of the Rehabilitation Act of 1973 & HUD's Section 504 Regulation for new construction and alterations.

206.2.2 WITHIN A SITE, AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE. * EXCEPTION: REMOVED FOR NON COMPLIANCE WITH SECTION 504 OF THE REHABILITATION ACT OF 1973 & HUD'S SECTION 504 REGULATION FOR NEW CONSTRUCTION AND ALTERATIONS

206.2.3 MULTI-STORY BUILDINGS AND FACILITIES. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT EACH STORY AND MEZZANINE IN MULTI-STORY BUILDINGS AND FACILITIES.

EXCEPTIONS:

* 1. REMOVED FOR NON COMPLIANCE WITH SECTION 504 OF THE REHABILITATION ACT OF 1973 & HUD'S SECTION 504 REGULATION FOR NEW CONSTRUCTION AND ALTERATIONS.

2. WHERE A TWO STORY PUBLIC BUILDING OR FACILITY HAS ONE STORY WITH AN OCCUPANT LOAD OF FIVE OR FEWER PERSONS THAT DOES NOT CONTAIN PUBLIC USE SPACE, THAT STORY SHALL NOT BE REQUIRED TO BE CONNECTED TO THE STORY ABOVE OR BELOW.

3. OMITTED (NOT APPLICABLE).

4. IN RESIDENTIAL FACILITIES, AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED TO CONNECT STORIES WHERE RESIDENTIAL DWELLING UNITS WITH MOBILITY FEATURES REQUIRED TO COMPLY WITH 809.2 THROUGH 809.4, ARE SERVING RESIDENTIAL DWELLING UNITS WITH MOBILITY FEATURES REQUIRED TO COMPLY WITH 809.2 THROUGH 809.4, AND PUBLIC USE AREAS SERVING RESIDENTIAL DWELLING UNITS ARE ON AN ACCESSIBLE ROUTE.

206.2.4 SPACES AND ELEMENTS. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS WITHIN THE BUILDING OR FACILITY WHICH ARE OTHERWISE CONNECTED BY A CIRCULATION PATH UNLESS EXEMPTED BY 206.2.3 EXCEPTIONS 1 THROUGH 7.

EXCEPTIONS:

1. RAISED COURTROOM STATIONS, INCLUDING JUDGES' BENCHES, CLERKS' STATIONS, BALIFFS' STATIONS, DEPUTY CLERKS' STATIONS, AND COURT REPORTERS' STATIONS SHALL NOT BE REQUIRED TO PROVIDE VERTICAL ACCESS PROVIDED THAT THE REQUIRED CLEAR FLOOR SPACE, MANEUVERING SPACE, AND, IF APPROPRIATE, ELECTRICAL SERVICE ARE INSTALLED AT THE TIME OF INITIAL CONSTRUCTION TO ALLOW FUTURE INSTALLATION OF A MEANS OF VERTICAL ACCESS COMPLYING WITH 405, 407, 408, OR 410 WITHOUT REQUIRING SUBSTANTIAL RECONSTRUCTION OF THE SPACE.

2. IN ASSEMBLY AREAS WITH FIXED SEATING REQUIRED TO COMPLY WITH 221, AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED TO SERVE FIXED SEATING WHERE WHEELCHAIR SPACES REQUIRED TO BE ON AN ACCESSIBLE ROUTE ARE NOT PROVIDED.

3. ACCESSIBLE ROUTES SHALL NOT BE REQUIRED TO CONNECT MEZZANINES WHERE BUILDINGS OR FACILITIES HAVE NO MORE THAN ONE STORY. IN ADDITION, ACCESSIBLE ROUTES SHALL NOT BE REQUIRED TO CONNECT STORIES OR MEZZANINES WHERE MULTI-STORY BUILDINGS OR FACILITIES ARE EXEMPTED BY 206.2.3 EXCEPTIONS 1 THROUGH 7.

206.2.5 EMPLOYEE WORK AREAS. COMMON USE CIRCULATION PATHS WITHIN EMPLOYEE WORK AREAS SHALL COMPLY WITH 402.

EXCEPTIONS:

REMOVED FOR NON COMPLIANCE WITH SECTION 504 OF THE REHABILITATION ACT OF 1973 & HUD'S SECTION 504 REGULATION FOR NEW CONSTRUCTION AND ALTERATIONS

206.2.12 COURT SPORTS. IN COURT SPORTS, AT LEAST ONE ACCESSIBLE ROUTE SHALL DIRECTLY CONNECT BOTH SIDES OF THE COURT.

206.2.13 EXERCISE MACHINES AND EQUIPMENT. EXERCISE MACHINES AND EQUIPMENT REQUIRED TO COMPLY WITH 236 SHALL BE ON AN ACCESSIBLE ROUTE.

206.2.17 PLAY AREAS. PLAY AREAS SHALL PROVIDE ACCESSIBLE ROUTES IN ACCORDANCE WITH 206.2.17.

ACCESSIBLE ROUTES SERVING PLAY AREAS SHALL COMPLY WITH CHAPTER 4 EXCEPT AS MODIFIED BY 1008.2.

206.2.17.1 GROUND LEVEL AND ELEVATED PLAY COMPONENTS. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE PLAY AREA. THE ACCESSIBLE ROUTE SHALL CONNECT GROUND LEVEL PLAY COMPONENTS REQUIRED TO COMPLY WITH 240.2.1 AND ELEVATED PLAY COMPONENTS REQUIRED TO COMPLY WITH 240.2.2, INCLUDING ENTRY AND EXIT POINTS OF THE PLAY COMPONENTS.

206.2.17.2 SOFT CONTAINED PLAY STRUCTURES. WHERE THREE OR FEWER ENTRY POINTS ARE PROVIDED FOR SOFT CONTAINED PLAY STRUCTURES, AT LEAST ONE ENTRY POINT SHALL BE ON AN ACCESSIBLE ROUTE.

WHERE FOUR OR MORE ENTRY POINTS ARE PROVIDED FOR SOFT CONTAINED PLAY STRUCTURES, AT LEAST TWO ENTRY POINTS SHALL BE ON AN ACCESSIBLE ROUTE.

206.3 LOCATION. ACCESSIBLE ROUTES SHALL COINCIDE WITH OR BE LOCATED IN THE SAME AREA AS GENERAL CIRCULATION PATHS. WHERE CIRCULATION PATHS ARE INTERIOR, REQUIRED ACCESSIBLE ROUTES SHALL ALSO BE INTERIOR.

206.4 ENTRANCES. ENTRANCES SHALL BE PROVIDED IN ACCORDANCE WITH 206.4. ENTRANCE DOORS, DOORWAYS, AND GATES SHALL COMPLY WITH 404 AND SHALL BE ON AN ACCESSIBLE ROUTE COMPLYING WITH 402.

206.4.1 PUBLIC ENTRANCES. IN ADDITION TO ENTRANCES REQUIRED BY 206.4.2 THROUGH 206.4.9, AT LEAST 60 PERCENT OF ALL PUBLIC ENTRANCES SHALL COMPLY WITH 404.

206.4.2 PARKING STRUCTURE ENTRANCES. WHERE DIRECT ACCESS IS PROVIDED FOR PEDESTRIANS FROM A PARKING STRUCTURE TO A BUILDING OR FACILITY ENTRANCE, EACH DIRECT ACCESS TO THE BUILDING OR FACILITY ENTRANCE SHALL COMPLY WITH 404.

206.4.3 ENTRANCES FROM TUNNELS OR ELEVATED WALKWAYS. WHERE DIRECT ACCESS IS PROVIDED FOR PEDESTRIANS FROM A PEDESTRIAN TUNNEL OR ELEVATED WALKWAY TO A BUILDING OR FACILITY, AT LEAST ONE DIRECT ENTRANCE TO THE BUILDING OR FACILITY FROM EACH TUNNEL OR WALKWAY SHALL COMPLY WITH 404.

206.4.4 TRANSPORTATION FACILITIES. OMITTED (NOT APPLICABLE)

206.4.5 TENANT SPACES. AT LEAST ONE ACCESSIBLE ENTRANCE TO EACH TENANCY IN A FACILITY SHALL COMPLY WITH 404.

EXCEPTION: SELF-SERVICE STORAGE FACILITIES NOT REQUIRED TO COMPLY WITH 225.3 SHALL NOT BE REQUIRED TO BE ON AN ACCESSIBLE ROUTE.

206.4.6 RESIDENTIAL DWELLING UNIT PRIMARY ENTRANCE. IN RESIDENTIAL DWELLING UNITS, AT LEAST ONE PRIMARY ENTRANCE SHALL COMPLY WITH 404. THE PRIMARY ENTRANCE TO A RESIDENTIAL DWELLING UNIT SHALL NOT BE TO A BEDROOM.

206.4.7 RESTRICTED ENTRANCES. WHERE RESTRICTED ENTRANCES ARE PROVIDED TO A BUILDING OR FACILITY, AT LEAST ONE RESTRICTED ENTRANCE TO THE BUILDING OR FACILITY SHALL COMPLY WITH 404.

206.5 DOORS, DOORWAYS, AND GATES. DOORS, DOORWAYS, AND GATES PROVIDING USER PASSAGE SHALL BE PROVIDED IN ACCORDANCE WITH 206.5.

206.5.1 ENTRANCES. EACH ENTRANCE TO A BUILDING OR FACILITY REQUIRED TO COMPLY WITH 206.4 SHALL BE PROVIDED IN ACCORDANCE WITH 206.5.

206.5.2 ROOMS AND SPACES. WITHIN A BUILDING OR FACILITY, AT LEAST ONE DOOR, DOORWAY, OR GATE SERVING EACH ROOM OR SPACE COMPLYING WITH THESE REQUIREMENTS SHALL COMPLY WITH 404.

206.5.3 TRANSIENT LODGING FACILITIES. OMITTED (NOT APPLICABLE).

206.5.4 RESIDENTIAL DWELLING UNITS. IN RESIDENTIAL DWELLING UNITS REQUIRED TO PROVIDE MOBILITY FEATURES COMPLYING WITH 809.2 THROUGH 809.4, ALL DOORS AND DOORWAYS PROVIDING USER PASSAGE SHALL COMPLY WITH 404.

206.6 ELEVATORS. ELEVATORS PROVIDED FOR PASSENGERS SHALL COMPLY WITH 407. WHERE MULTIPLE ELEVATORS ARE PROVIDED, EACH ELEVATOR SHALL COMPLY WITH 407.

EXCEPTIONS:

1. IN A BUILDING OR FACILITY PERMITTED TO USE THE EXCEPTIONS TO 206.2.3 OR PERMITTED BY 206.7 TO USE A PLATFORM LIFT, ELEVATORS COMPLYING WITH 408 SHALL BE PERMITTED.

2. ELEVATORS COMPLYING WITH 408 OR 409 SHALL BE PERMITTED IN MULTI-STORY RESIDENTIAL DWELLING UNITS.

206.7 PLATFORM LIFTS. PLATFORM LIFTS SHALL COMPLY WITH 410. PLATFORM LIFTS SHALL BE PERMITTED AS A COMPONENT OF AN ACCESSIBLE ROUTE IN NEW CONSTRUCTION IN ACCORDANCE WITH 206.7. PLATFORM LIFTS SHALL BE PERMITTED AS A COMPONENT OF AN ACCESSIBLE ROUTE IN AN EXISTING BUILDING OR FACILITY.

206.7.5 EXISTING SITE CONSTRAINTS. PLATFORM LIFTS SHALL BE PERMITTED WHERE EXISTING EXTERIOR SITE CONSTRAINTS MAKE USE OF A RAMP OR ELEVATOR TECHNICALLY INFEASIBLE.

206.7.6 GUEST ROOMS AND RESIDENTIAL DWELLING UNITS. PLATFORM LIFTS SHALL BE PERMITTED TO CONNECT LEVELS WITHIN TRANSIENT LODGING GUEST ROOMS REQUIRED TO PROVIDE MOBILITY FEATURES COMPLYING WITH 809.2 OR RESIDENTIAL DWELLING UNITS REQUIRED TO PROVIDE MOBILITY FEATURES COMPLYING WITH 809.2 THROUGH 809.4.

206.7.7 AMUSEMENT RIDES. OMITTED (NOT APPLICABLE).

206.7.8 PLAY AREAS. PLATFORM LIFTS SHALL BE PERMITTED TO PROVIDE ACCESSIBLE ROUTES TO PLAY COMPONENTS OR SOFT CONTAINED PLAY STRUCTURES.

206.7.9 TEAM OR PLAYER SEATING. OMITTED (NOT APPLICABLE).

207 ACCESSIBLE MEANS OF EGRESS

207.1 GENERAL. MEANS OF EGRESS SHALL COMPLY WITH SECTION 1003.2.13 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION AND 2001 SUPPLEMENT) OR SECTION 1007 OF THE INTERNATIONAL BUILDING CODE (2003 EDITION).

EXCEPTION: WHERE MEANS OF EGRESS ARE PERMITTED BY LOCAL BUILDING OR LIFE SAFETY CODES TO SHARE A COMMON PATH OF EGRESS TRAVEL, ACCESSIBLE MEANS OF EGRESS SHALL BE PERMITTED TO SHARE A COMMON PATH OF EGRESS TRAVEL.

207.2 PLATFORM LIFTS. STANDBY POWER SHALL BE PROVIDED FOR PLATFORM LIFTS PERMITTED BY SECTION 1003.2.13.4 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION AND 2001 SUPPLEMENT) OR SECTION 1007.5 OF THE INTERNATIONAL BUILDING CODE (2003 EDITION) TO SERVE AS A PART OF AN ACCESSIBLE MEANS OF EGRESS.

208 PARKING SPACES

208.1 GENERAL. WHERE PARKING SPACES ARE PROVIDED, PARKING SPACES SHALL BE PROVIDED IN ACCORDANCE WITH 208.

EXCEPTION: PARKING SPACES USED EXCLUSIVELY FOR BUSES, TRUCKS, OTHER DELIVERY VEHICLES, LAW ENFORCEMENT VEHICLES, OR VEHICULAR IMPOUND SHALL NOT BE REQUIRED TO COMPLY WITH 208 PROVIDED THAT LOTS ACCESSED BY THE PUBLIC ARE PROVIDED WITH A PASSENGER LOADING ZONE COMPLYING WITH 502.

208.2 MINIMUM NUMBER. PARKING SPACES COMPLYING WITH 502 SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 208.2 EXCEPT AS REQUIRED BY 208.2.1, 208.2.2, AND 208.2.3, WHERE MORE THAN ONE PARKING FACILITY IS PROVIDED ON A SITE, THE NUMBER OF ACCESSIBLE SPACES PROVIDED ON THE SITE SHALL BE CALCULATED ACCORDING TO THE NUMBER OF SPACES REQUIRED FOR EACH PARKING FACILITY.

TABLE 208.2 PARKING SPACES

TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY	TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1,000	2 PERCENT OF TOTAL
1,001 AND OVER	20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF; OVER 1,000

208.2.1 HOSPITAL OUTPATIENT FACILITIES. OMITTED (NOT APPLICABLE).

208.2.2 REHABILITATION FACILITIES AND OUTPATIENT PHYSICAL THERAPY FACILITIES. OMITTED (NOT APPLICABLE).

208.2.3 RESIDENTIAL FACILITIES. PARKING SPACES PROVIDED TO SERVE RESIDENTIAL FACILITIES SHALL COMPLY WITH 208.2.3.

208.2.3.1 PARKING FOR RESIDENTS. WHERE AT LEAST ONE PARKING SPACE IS PROVIDED FOR EACH RESIDENTIAL DWELLING UNIT, AT LEAST ONE PARKING SPACE COMPLYING WITH 502 SHALL BE PROVIDED FOR EACH RESIDENTIAL DWELLING UNIT REQUIRED TO PROVIDE MOBILITY FEATURES COMPLYING WITH 809.2 THROUGH 809.4.

208.2.3.2 ADDITIONAL PARKING SPACES FOR RESIDENTS. WHERE THE TOTAL NUMBER OF PARKING SPACES PROVIDED FOR EACH RESIDENTIAL UNIT EXCEEDS ONE PARKING SPACE PER RESIDENTIAL DWELLING UNIT, 2 PERCENT, BUT NO FEWER THAN ONE SPACE, OF ALL PARKING SPACES NOT COVERED BY 208.2.3.1 SHALL COMPLY WITH 502.

208.2.3.3 PARKING FOR GUESTS, EMPLOYEES, AND OTHER NON-RESIDENTS. WHERE PARKING SPACES ARE PROVIDED FOR PERSONS OTHER THAN RESIDENTS, PARKING SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 208.2.

208.2.4 VAN PARKING SPACES. FOR EVERY SIX OR FRACTION OF SIX PARKING SPACES REQUIRED BY 208.2 TO COMPLY WITH 502, AT LEAST ONE SHALL BE A VAN PARKING SPACE COMPLYING WITH 502.

208.3 LOCATION. PARKING FACILITIES SHALL COMPLY WITH 208.3.

208.3.1 GENERAL. PARKING SPACES COMPLYING WITH 502 THAT SERVE A PARTICULAR BUILDING OR FACILITY SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE FROM PARKING TO AN ENTRANCE COMPLYING WITH 206.4, WHERE PARKING SERVES MORE THAN ONE ACCESSIBLE ENTRANCE. PARKING SPACES COMPLYING WITH 502 SHALL BE DISPERSED AND LOCATED ON THE SHORTEST ACCESSIBLE ROUTE TO THE ACCESSIBLE ENTRANCES. IN PARKING FACILITIES THAT DO NOT SERVE A PARTICULAR BUILDING OR FACILITY, PARKING SPACES COMPLYING WITH 502 SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE TO AN ACCESSIBLE PEDESTRIAN ENTRANCE OF THE PARKING FACILITY.

EXCEPTIONS:

1. IN VAN PARKING SPACES SHALL BE PERMITTED TO BE GROUPED ON ONE LEVEL WITHIN A MULTI-STORY PARKING FACILITY.

2. PARKING SPACES SHALL BE PERMITTED TO BE LOCATED IN DIFFERENT PARKING FACILITIES IF SUBSTANTIALLY EQUIVALENT OR GREATER ACCESSIBILITY IS PROVIDED IN TERMS OF DISTANCE FROM ACCESSIBLE ENTRANCE OR ENTRANCES, PARKING FEE, AND USER CONVENIENCE.

208.3.2 RESIDENTIAL FACILITIES. IN RESIDENTIAL FACILITIES CONTAINING RESIDENTIAL DWELLING REQUIRED TO PROVIDE MOBILITY FEATURES COMPLYING WITH 809.2 THROUGH 809.4, PARKING SPACES PROVIDED IN ACCORDANCE WITH 208.2.3.1 SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE TO THE RESIDENTIAL DWELLING UNIT ENTRANCE THEY SERVE. SPACES PROVIDED IN ACCORDANCE WITH 208.2.3.2 SHALL BE DISPERSED THROUGHOUT ALL TYPES OF PARKING PROVIDED FOR THE RESIDENTIAL DWELLING UNITS.

EXCEPTION: PARKING SPACES PROVIDED IN ACCORDANCE WITH 208.2.3.2 SHALL NOT BE REQUIRED TO BE DISPERSED THROUGHOUT ALL TYPES OF PARKING IF SUBSTANTIALLY EQUIVALENT OR GREATER ACCESSIBILITY IS PROVIDED IN TERMS OF DISTANCE FROM AN ACCESSIBLE ENTRANCE, PARKING FEE, AND USER CONVENIENCE.

209 PASSENGER LOADING ZONES AND BUS STOPS

209.1 GENERAL. PASSENGER LOADING ZONES SHALL BE PROVIDED IN ACCORDANCE WITH 209.

209.2 PASSENGER LOADING ZONES. PASSENGER LOADING ZONES, EXCEPT THOSE REQUIRED TO COMPLY WITH 209.2.2 AND 209.2.3, SHALL PROVIDE AT LEAST ONE PASSENGER LOADING ZONE COMPLYING WITH 503 IN EVERY CONTINUOUS 100 LINEAR FEET OF LOADING ZONE SPACE, OR FRACTION THEREOF.

209.2.2 BUS LOADING ZONES. IN BUS LOADING ZONES RESTRICTED TO USE BY DESIGNATED OR SPECIFIC PUBLIC TRANSPORTATION VEHICLES, EACH BUS BAY, BUS STOP, OR OTHER AREA DESIGNATED FOR LIFT OR RAMP DEPLOYMENT SHALL COMPLY WITH 810.2.

209.2.3 MEDICAL CARE AND LONG-TERM CARE FACILITIES. OMITTED (NOT APPLICABLE).

209.2.4 VALET PARKING. OMITTED (NOT APPLICABLE).

209.5 MECHANICAL ACCESS PARKING GARAGES. MECHANICAL ACCESS PARKING GARAGES SHALL PROVIDE AT LEAST ONE PASSENGER LOADING ZONE COMPLYING WITH 503 AT VEHICLE DROP-OFF AND VEHICLE PICK-UP AREAS.

210 STAIRWAYS

210.1 GENERAL. INTERIOR AND EXTERIOR STAIRS THAT ARE PART OF A MEANS OF EGRESS SHALL COMPLY WITH 504.

EXCEPTIONS:

1. OMITTED (NOT APPLICABLE)

2. IN ALTERATIONS, STAIRS BETWEEN LEVELS THAT ARE CONNECTED BY AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED TO TO COMPLY WITH 504, EXCEPT THAT HANDRAILS COMPLYING WITH 505 SHALL BE PROVIDED WHEN THE STAIRWAYS ARE ALTERED.

3. IN ASSEMBLY AREAS, AISLE STAIRS SHALL NOT BE REQUIRED TO COMPLY WITH 504.

4. STAIRS THAT CONNECT PLAY COMPONENTS SHALL NOT BE REQUIRED TO COMPLY WITH 504.

211 DRINKING FOUNTAINS

211.1 GENERAL. WHERE DRINKING FOUNTAINS ARE PROVIDED ON AN EXTERIOR SITE, ON A FLOOR, OR WITHIN A SECURED AREA THEY SHALL BE PROVIDED IN ACCORDANCE WITH 211.

211.2 MINIMUM NUMBER. NO FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED. ONE DRINKING FOUNTAIN SHALL COMPLY WITH 602.1 THROUGH 602.6 AND ONE DRINKING FOUNTAIN SHALL COMPLY WITH 602.7.

EXCEPTION: WHERE A SINGLE DRINKING FOUNTAIN COMPLIES WITH 602.1 THROUGH 602.6 AND 602.7, IT SHALL BE PERMITTED TO BE SUBSTITUTED FOR TWO SEPARATE DRINKING FOUNTAINS.

211.3 MORE THAN MINIMUM NUMBER. WHERE MORE THAN THE MINIMUM NUMBER OF DRINKING FOUNTAINS ARE PROVIDED, AT LEAST 50 PERCENT OF THE TOTAL NUMBER OF DRINKING FOUNTAINS PROVIDED SHALL COMPLY WITH 602.7.

EXCEPTION: WHERE 50 PERCENT OF THE DRINKING FOUNTAINS YIELDS A FRACTION, 50 PERCENT SHALL BE PERMITTED TO BE ROUNDED UP OR DOWN PROVIDED THAT THE TOTAL NUMBER OF DRINKING FOUNTAINS COMPLYING WITH 211 EQUALS 100 PERCENT OF THE REQUIRED NUMBER OF DRINKING FOUNTAINS.

212 KITCHENS, KITCHENETTES, AND SINKS

212.1 GENERAL. WHERE PROVIDED, KITCHENS, KITCHENETTES, AND SINKS SHALL COMPLY WITH 212.

212.2 KITCHENS AND KITCHENETTES. KITCHENS AND KITCHENETTES SHALL COMPLY WITH 804.

212.3 SINKS. WHERE SINKS ARE PROVIDED, AT LEAST 5 PERCENT, BUT NO FEWER THAN ONE, OF EACH TYPE PROVIDED IN EACH ACCESSIBLE ROOM OR SPACE SHALL COMPLY WITH 606.

EXCEPTION: Map or service sinks shall not be required to comply with 212.3.

213 TOILET FACILITIES AND BATHING FACILITIES

213.1 GENERAL. WHERE TOILET FACILITIES AND BATHING FACILITIES ARE PROVIDED, THEY SHALL COMPLY WITH 213.

WHERE TOILET FACILITIES AND BATHING FACILITIES ARE PROVIDED IN FACILITIES PERMITTED BY 206.2.3 EXCEPTIONS 1 AND 2 NOT TO CONNECT STORIES BY AN ACCESSIBLE ROUTE, TOILET FACILITIES AND BATHING FACILITIES SHALL BE PROVIDED ON A STORY CONNECTED BY AN ACCESSIBLE ROUTE TO AN ACCESSIBLE ENTRANCE.

213.2 TOILET ROOMS AND BATHING ROOMS. WHERE TOILET ROOMS ARE PROVIDED, EACH TOILET ROOM SHALL COMPLY WITH 603. WHERE BATHING ROOMS ARE PROVIDED, EACH BATHING ROOM SHALL COMPLY WITH 603.

EXCEPTIONS:

1. IN ALTERATIONS WHERE IT IS TECHNICALLY INFEASIBLE TO COMPLY WITH 603, ALTERING EXISTING TOILET OR BATHING ROOMS SHALL NOT BE REQUIRED WHERE A SINGLE UNISEX TOILET ROOM OR BATHING ROOM COMPLYING WITH 213.2.1 IS PROVIDED AND LOCATED IN THE SAME AREA AND ON THE SAME FLOOR AS EXISTING INACCESSIBLE TOILET OR BATHING ROOMS.

2. WHERE EXCEPTIONS FOR ALTERATIONS TO QUALIFIED HISTORIC BUILDINGS OR FACILITIES ARE PERMITTED BY 202.5, NO FEWER THAN ONE TOILET ROOM FOR EACH SEX COMPLYING WITH 603 OR ONE UNISEX TOILET ROOM COMPLYING WITH 213.2.1 SHALL BE PROVIDED.

3. WHERE MULTIPLE SINGLE USER TOILET ROOMS ARE CLUSTERED AT A SINGLE LOCATION, NO MORE THAN 50 PERCENT OF THE SINGLE USER TOILET ROOMS FOR EACH USE AT EACH CLUSTER SHALL BE REQUIRED TO COMPLY WITH 603.

4. WHERE MULTIPLE SINGLE USER TOILET ROOMS ARE CLUSTERED AT A SINGLE LOCATION, NO MORE THAN 50 PERCENT OF THE SINGLE USER TOILET ROOMS FOR EACH USE AT EACH CLUSTER SHALL BE REQUIRED TO COMPLY WITH 603.

213.2.1 UNISEX (SINGLE-USE OR FAMILY) TOILET AND UNISEX BATHING ROOMS. UNISEX TOILET ROOMS SHALL CONTAIN NOT MORE THAN ONE LAVATORY, AND TWO WATER CLOSETS WITHOUT URINALS OR ONE WATER CLOSET AND ONE UNISEX UNISEX BATHING ROOMS SHALL CONTAIN ONE SHOWER OR ONE SHOWER AND ONE BATHTUB, ONE LAVATORY, AND ONE WATER CLOSET. DOORS TO UNISEX TOILET ROOMS AND UNISEX BATHING ROOMS SHALL HAVE KICK-OUT LATCHES.

213.3 PLUMBING FIXTURES AND ACCESSORIES. PLUMBING FIXTURES AND ACCESSORIES PROVIDED IN A TOILET ROOM OR BATHING ROOM REQUIRED TO COMPLY WITH 213.2 SHALL COMPLY WITH 213.3.

213.3.1 TOILET COMPARTMENTS. WHERE TOILET COMPARTMENTS ARE PROVIDED, AT LEAST ONE TOILET COMPARTMENT SHALL COMPLY WITH 604.8.1. IN ADDITION TO THE COMPARTMENT REQUIRED TO COMPLY WITH 604.8.1, AT LEAST ONE TOILET COMPARTMENT SHALL COMPLY WITH 604.8.2 WHERE TWO OR MORE TOILET COMPARTMENTS ARE PROVIDED, OR WHERE THE COMBINATION OF URINALS AND WATER CLOSETS TOTALS SIX OR MORE FIXTURES.

213.3.2 WATER CLOSETS. WHERE WATER CLOSETS ARE PROVIDED, AT LEAST ONE SHALL COMPLY WITH 604.

213.3.3 URINALS. WHERE MORE THAN ONE URINAL IS PROVIDED, AT LEAST ONE SHALL COMPLY WITH 605.

213.3.4 LAVATORIES. WHERE LAVATORIES ARE PROVIDED, AT LEAST ONE SHALL COMPLY WITH 606 AND SHALL NOT BE LOCATED IN A TOILET COMPARTMENT.

213.3.5 MIRRORS. WHERE MIRRORS ARE PROVIDED, AT LEAST ONE SHALL COMPLY WITH 603.3

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN*

* WITH 11 EXCEPTIONS REMOVED OR MODIFIED TO COMPLY WITH SECTION 504 OF THE REHABILITATION ACT OF 1973 & HUD'S SECTION 504 REGULATION FOR NEW CONSTRUCTION AND ALTERATIONS.

CHAPTER 3: BUILDING BLOCKS

301 GENERAL
301.1 SCOPE. THE PROVISIONS OF CHAPTER 3 SHALL APPLY WHERE REQUIRED BY CHAPTER 2 OR WHERE REFERENCED BY A REQUIREMENT IN THIS DOCUMENT.
302 FLOOR OR GROUND SURFACES
302.1 GENERAL. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT AND SHALL COMPLY WITH 302.2.
EXCEPTIONS:
1. WITHIN ANIMAL CONTAINMENT AREAS, FLOOR AND GROUND SURFACES SHALL NOT BE REQUIRED TO BE STABLE, FIRM, AND SLIP RESISTANT.
2. AREAS OF SPORT ACTIVITY SHALL NOT BE REQUIRED TO COMPLY WITH 302.
302.2 CARPET. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/JUNCT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2 INCH MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH 303.
302.3 OPENINGS. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2 INCH DIAMETER EXCEPT AS ALLOWED IN 407.4.3, 409.4.3, 410.4, 810.5.3 AND 810.10. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

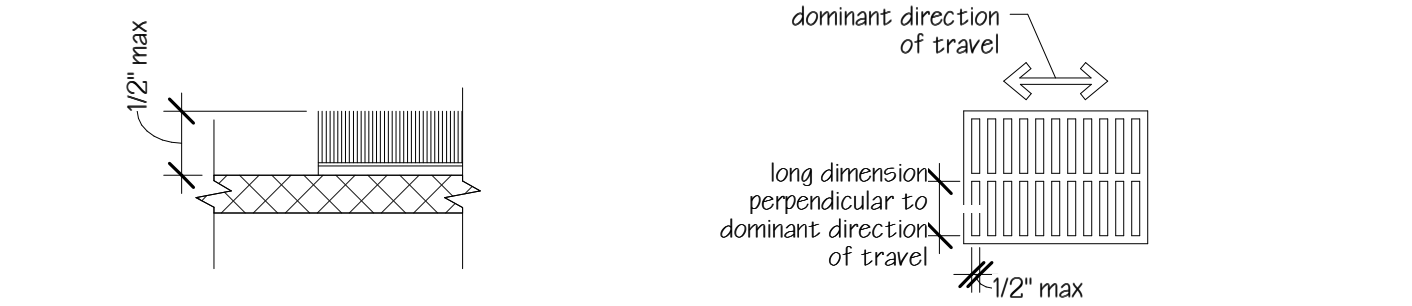


Fig. 302.2
Carpet Pile Height

Fig. 302.3
Elongated Openings in
Floor or Ground Surfaces

303 CHANGES IN LEVEL
303.1 GENERAL. WHERE CHANGES IN LEVEL ARE PERMITTED IN FLOOR OR GROUND SURFACES, THEY SHALL COMPLY WITH 303.
EXCEPTIONS:
1. ANIMAL CONTAINMENT AREAS SHALL NOT BE REQUIRED TO COMPLY WITH 303.
2. AREAS OF SPORT ACTIVITY SHALL NOT BE REQUIRED TO COMPLY WITH 303.
303.2 VERTICAL. CHANGES IN LEVEL OF 1/4 INCH (6.4 MM) HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL.
303.2 VERTICAL. CHANGES IN LEVEL OF 1/4 INCH HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL.
303.3 BEVELED. CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MINIMUM AND 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.
303.4 RAMPS. CHANGES IN LEVEL GREATER THAN 1/2 INCH HIGH SHALL BE RAMPED, AND SHALL COMPLY WITH 405 OR 406.

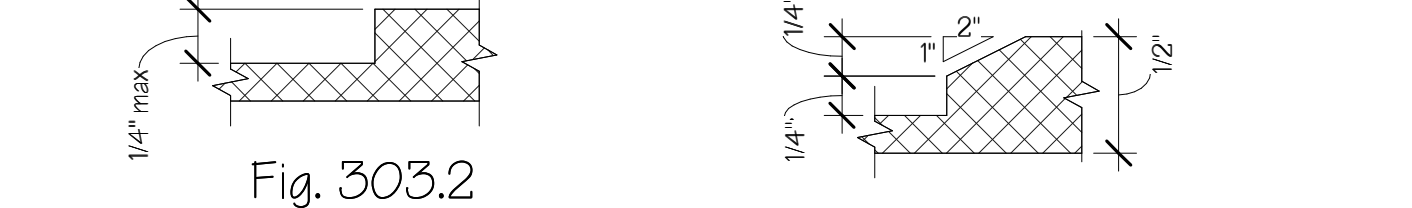


Fig. 303.2
Vertical Changes
in Level

Fig. 303.3
Beveled Changes
in Level

304 TURNING SPACE
304.1 GENERAL. TURNING SPACE SHALL COMPLY WITH 304.
304.2 FLOOR OR GROUND SURFACES. FLOOR OR GROUND SURFACES OF A TURNING SPACE SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED.
EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.
304.3 SIZE. TURNING SPACE SHALL COMPLY WITH 304.3.1 OR 304.3.2.
304.3.1 CIRCULAR SPACE. THE TURNING SPACE SHALL BE A SPACE OF 60 INCHES DIAMETER MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306.
304.3.2 T-SHAPED SPACE. THE TURNING SPACE SHALL BE A T-SHAPED SPACE WITHIN A 60 INCH SQUARE MINIMUM WITH ARMS AND BASE 36 INCHES WIDE MINIMUM. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12 INCHES MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24 INCHES MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306 ONLY AT THE END OF EITHER THE BASE OR ONE ARM.
304.4 DOOR SWING. DOORS SHALL BE PERMITTED TO SWING INTO TURNING SPACES.

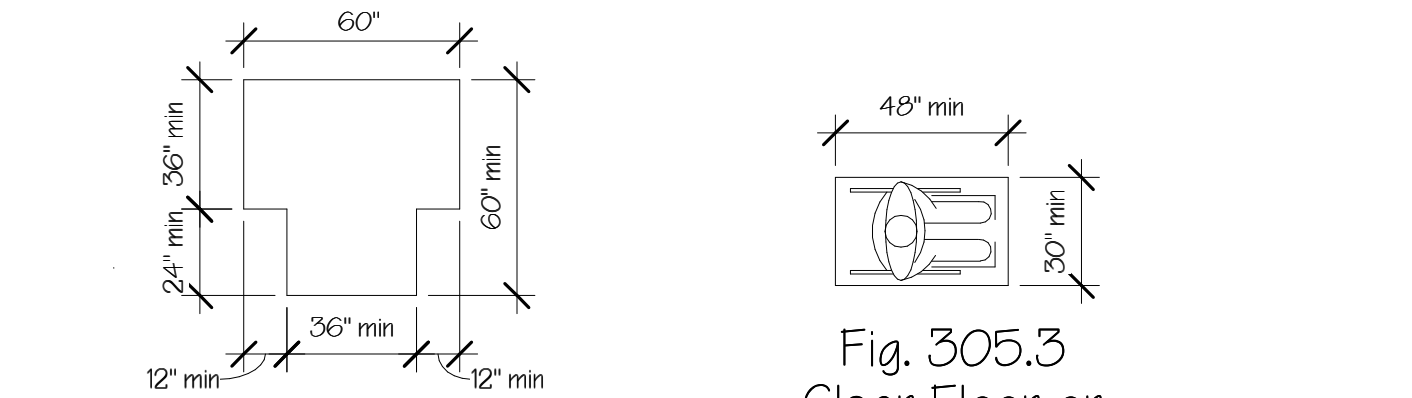


Fig. 304.3.2
T-Shaped Turning Space

305 CLEAR FLOOR OR GROUND SPACE
305.1 GENERAL. CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH 305.
305.2 FLOOR OR GROUND SURFACES. FLOOR OR GROUND SURFACES OF A CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED.
EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.
305.3 SIZE. THE CLEAR FLOOR OR GROUND SPACE SHALL BE 30 INCHES MINIMUM BY 48 INCHES MINIMUM.
305.4 KNEE AND TOE CLEARANCE. UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306.
305.5 POSITION. UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT.
305.6 APPROACH. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE SHALL ADJOIN AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR OR GROUND SPACE.

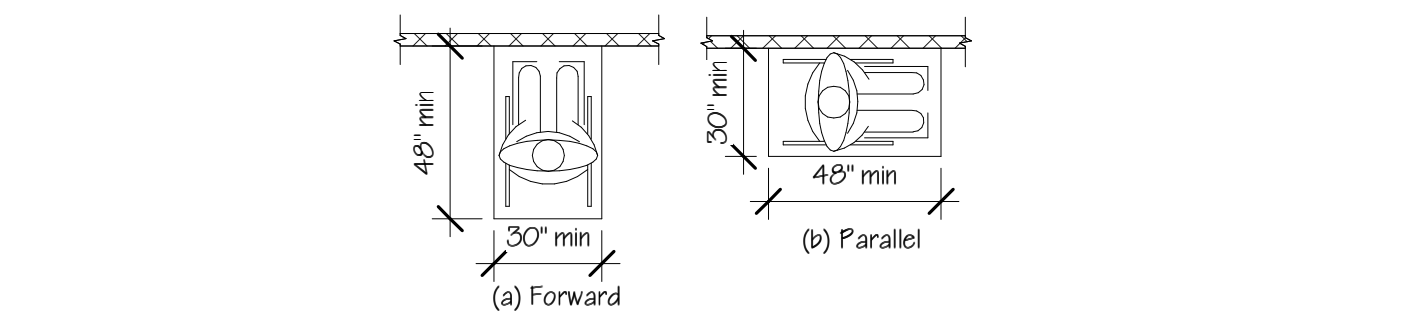


Fig. 305.5
Position of Clear Floor
or Ground Space

305.7 MANEUVERING CLEARANCE. WHERE A CLEAR FLOOR OR GROUND SPACE IS LOCATED IN AN ALCOVE OR OTHERWISE CONFINED ON ALL OR PART OF THREE SIDES, ADDITIONAL MANEUVERING CLEARANCE SHALL BE PROVIDED IN ACCORDANCE WITH 305.7.1 AND 305.7.2.
305.7.1 FORWARD APPROACH. ALCOVES SHALL BE 36 INCHES WIDE MINIMUM WHERE THE DEPTH EXCEEDS 24 INCHES.
305.7.2 PARALLEL APPROACH. ALCOVES SHALL BE 60 INCHES WIDE MINIMUM WHERE THE DEPTH EXCEEDS 15 INCHES.

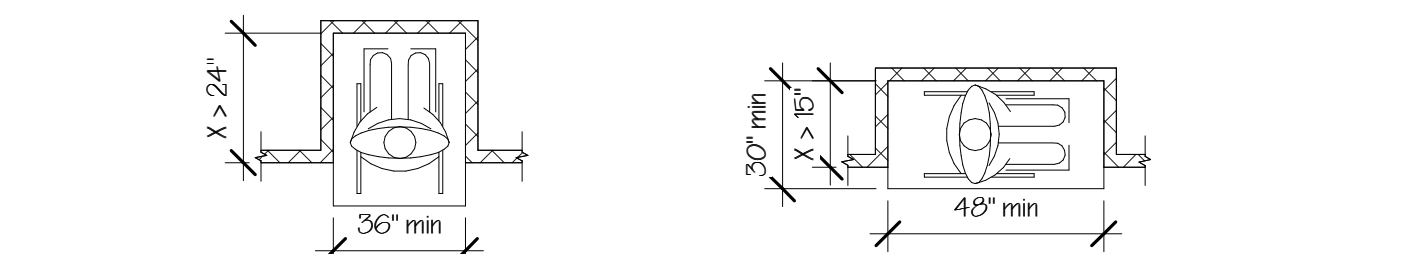


Fig. 305.7.1
Maneuvering Clearance
in an Alcove, Forward
Approach

Fig. 305.7.2
Maneuvering Clearance
in an Alcove, Parallel
Approach

306 KNEE AND TOE CLEARANCE
306.1 GENERAL. WHERE SPACE BENEATH AN ELEMENT IS INCLUDED AS PART OF CLEAR FLOOR OR GROUND SPACE OR TURNING SPACE, THE SPACE SHALL COMPLY WITH 306. ADDITIONAL SPACE SHALL NOT BE PROHIBITED BENEATH AN ELEMENT BUT SHALL NOT BE CONSIDERED AS PART OF THE CLEAR FLOOR OR GROUND SPACE OR TURNING SPACE.
306.2 TOE CLEARANCE.
306.2.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND AND 9 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED TOE CLEARANCE AND SHALL COMPLY WITH 306.2.
306.2.2 MAXIMUM DEPTH. TOE CLEARANCE SHALL EXTEND 25 INCHES MAXIMUM UNDER AN ELEMENT.
306.2.3 MINIMUM REQUIRED DEPTH. WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17 INCHES MINIMUM UNDER THE ELEMENT.
306.2.4 ADDITIONAL CLEARANCE. SPACE EXTENDING GREATER THAN 6 INCHES BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARANCE.
306.2.5 WIDTH. TOE CLEARANCE SHALL BE 30 INCHES WIDE MINIMUM.
306.3 KNEE CLEARANCE.
306.3.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED KNEE CLEARANCE AND SHALL COMPLY WITH 306.3.
306.3.2 MAXIMUM DEPTH. KNEE CLEARANCE SHALL EXTEND 25 INCHES MAXIMUM UNDER AN ELEMENT AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND.
306.3.3 MINIMUM REQUIRED DEPTH. WHERE KNEE CLEARANCE IS REQUIRED UNDER AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11 INCHES DEEP MINIMUM AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND, AND 9 INCHES DEEP MINIMUM AT 27 INCHES ABOVE THE FINISH FLOOR OR GROUND.
306.3.4 CLEARANCE REDUCTION. BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FINISH FLOOR OR GROUND, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1 INCH IN DEPTH FOR EACH 6 INCHES IN HEIGHT.
306.3.5 WIDTH. KNEE CLEARANCE SHALL BE 30 INCHES WIDE MINIMUM.

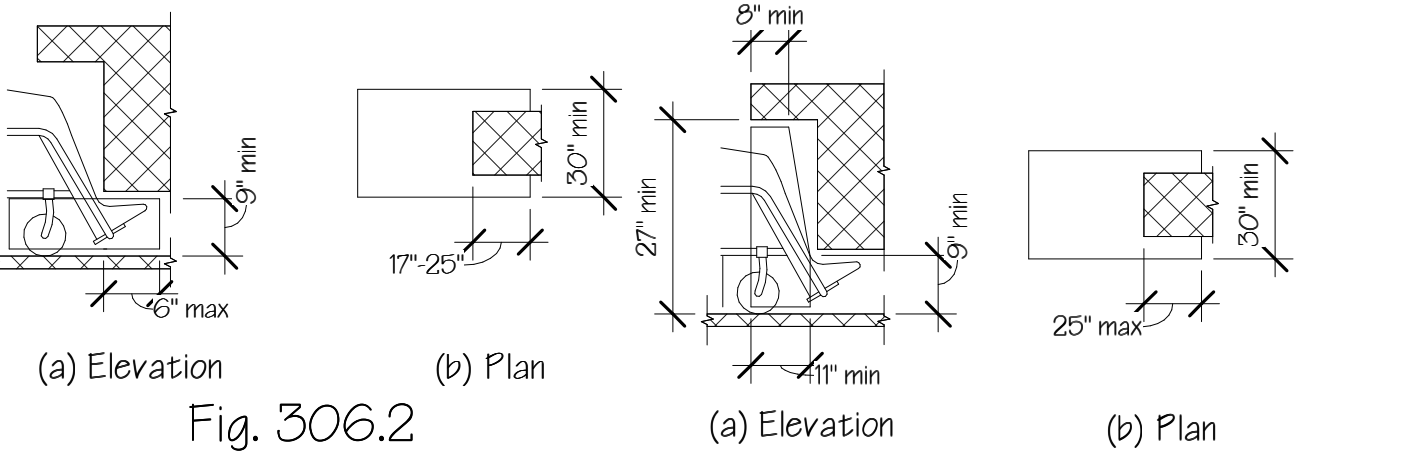


Fig. 306.2
Toe Clearance

Fig. 306.3
Knee Clearance

307 PROTRUDING OBJECTS
307.1 GENERAL. PROTRUDING OBJECTS SHALL COMPLY WITH 307.
307.2 PROTRUSION LIMITS. OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES AND NOT MORE THAN 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH. EXCEPTION: HANDRAILS SHALL BE PERMITTED TO PROTRUDE 4 1/2 INCHES MAXIMUM.

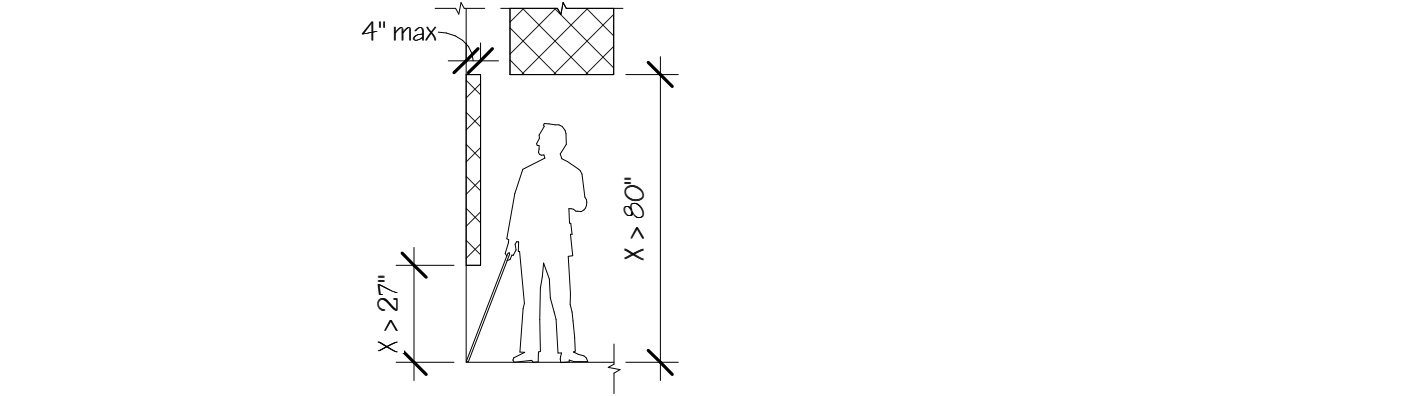


Fig. 307.2
Limits of Protruding Objects

307.3 POST-MOUNTED OBJECTS. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS SHALL OVERHANG CIRCULATION PATHS 12 INCHES MAXIMUM WHEN LOCATED 27 INCHES MINIMUM AND 80 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND, WHERE A SIGN OR OTHER OBSTRUCTION IS MOUNTED BETWEEN POSTS OR PYLONS AND THE CLEAR DISTANCE BETWEEN THE POSTS OR PYLONS IS GREATER THAN 12 INCHES. THE LOWEST EDGE OF SUCH SIGN OR OBSTRUCTION SHALL BE 27 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND. EXCEPTION: THE SLOPING PORTIONS OF HANDRAILS SERVING STAIRS AND RAMPS SHALL NOT BE REQUIRED TO COMPLY WITH 307.3.

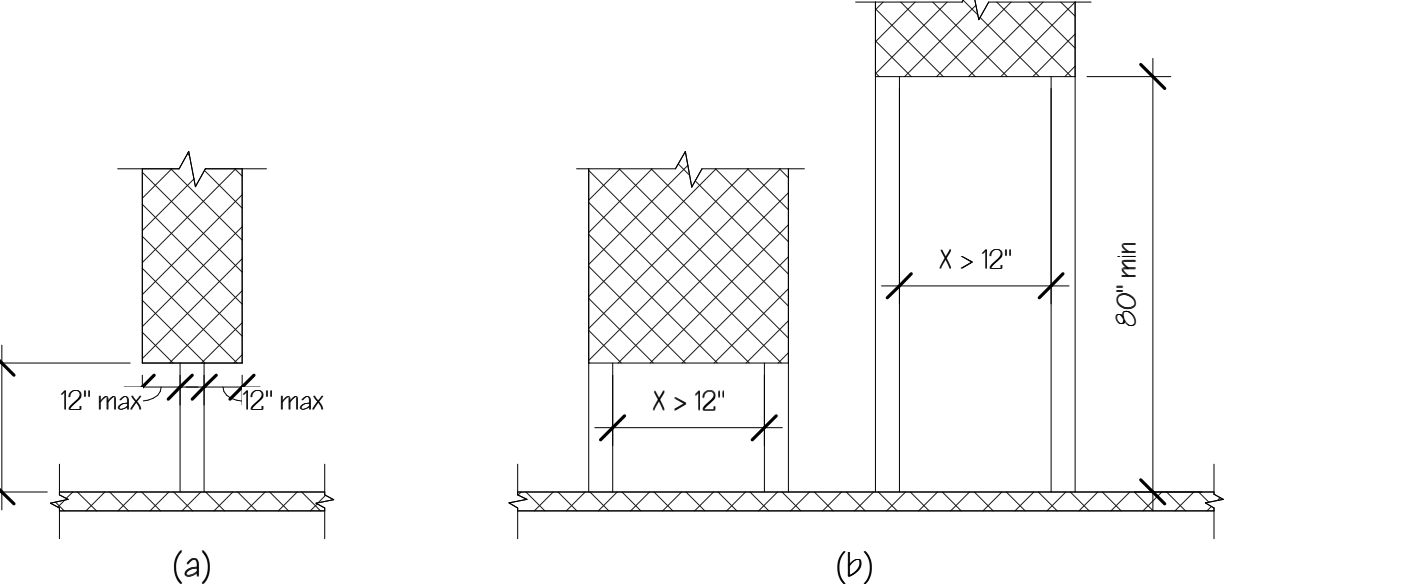


Fig. 307.3
Post-Mounted Protruding Objects

307.4 VERTICAL CLEARANCE. VERTICAL CLEARANCE SHALL BE 80 INCHES HIGH MINIMUM. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80 INCHES HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE LOCATED 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.
307.5 REQUIRED CLEAR WIDTH. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH REQUIRED FOR ACCESSIBLE ROUTES.

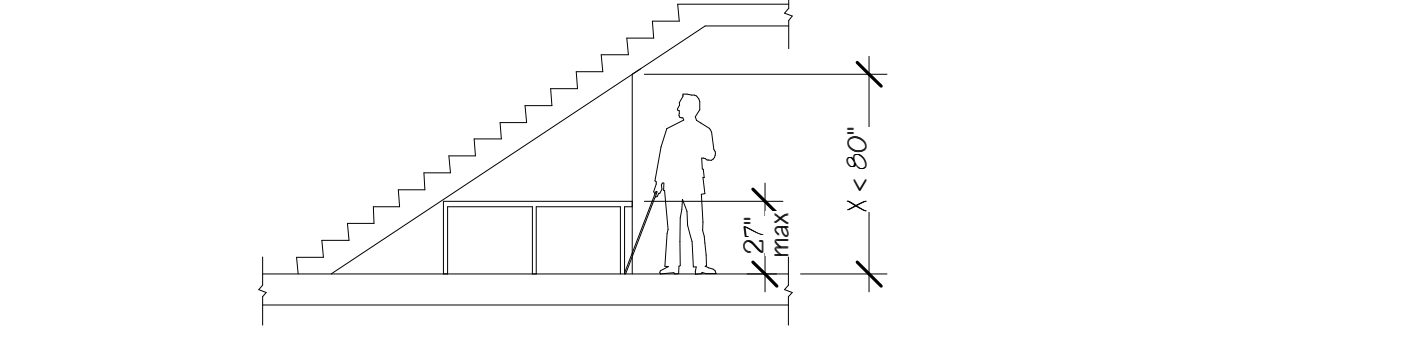


Fig. 307.4
Reduced Vertical Clearance

308 REACH RANGES
308.1 GENERAL. REACH RANGES SHALL COMPLY WITH 308.
308.2 FORWARD REACH.
308.2.1 UNOBSTRUCTED. WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.
308.2.2 OBSTRUCTED HIGH REACH. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 20 INCHES, THE HIGH FORWARD REACH SHALL BE 44 INCHES MAXIMUM AND THE REACH DEPTH SHALL BE 25 INCHES MAXIMUM.

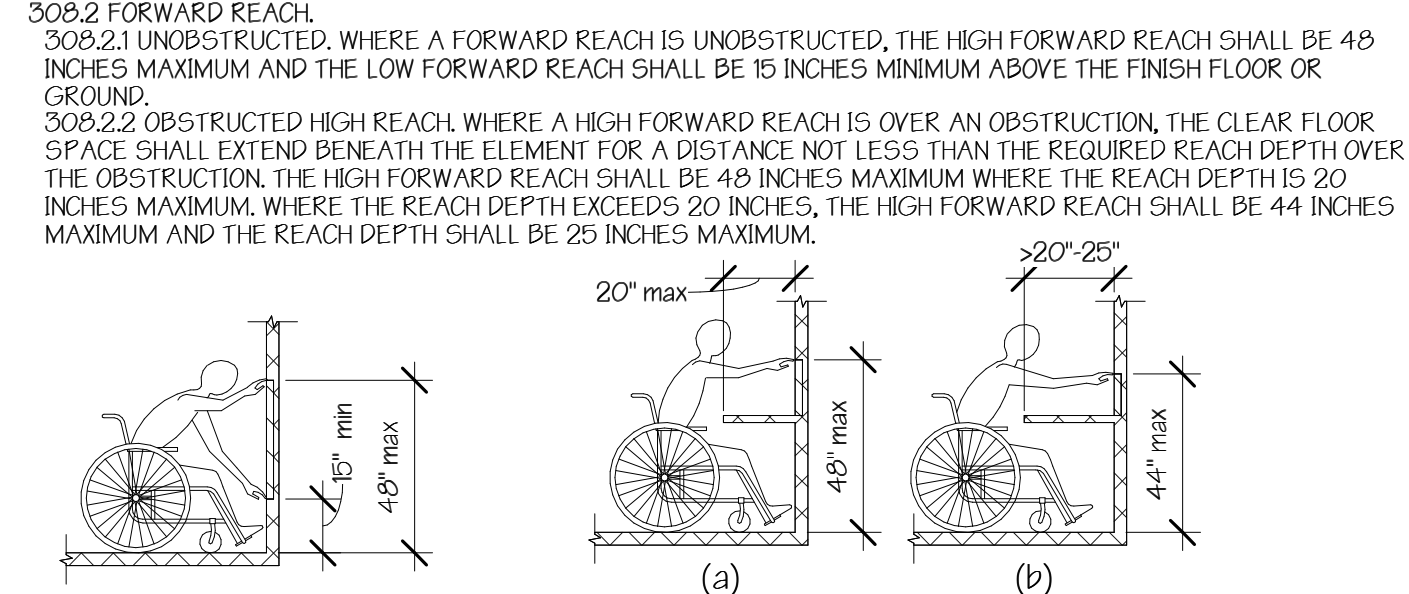


Fig. 308.2.1
Unobstructed Forward
Reach

Fig. 308.2.2
Obstructed High Forward
Reach

308.3 SIDE REACH.
308.3.1 UNOBSTRUCTED. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND. EXCEPTIONS:
1. AN OBSTRUCTION SHALL BE PERMITTED BETWEEN THE CLEAR FLOOR OR GROUND SPACE AND THE ELEMENT WHERE THE DEPTH OF THE OBSTRUCTION IS 10 INCHES MAXIMUM.
2. OPERABLE PARTS OF FUEL DISPENSERS SHALL BE PERMITTED TO BE 54 INCHES MAXIMUM MEASURED FROM THE SURFACE OF THE VEHICULAR WAY WHERE FUEL DISPENSERS ARE INSTALLED ON EXISTING CURBS.
308.3.2 OBSTRUCTED HIGH REACH. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM FOR A REACH DEPTH OF 10 INCHES MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 10 INCHES, THE HIGH SIDE REACH SHALL BE 46 INCHES MAXIMUM FOR A REACH DEPTH OF 24 INCHES MAXIMUM. EXCEPTIONS:
1. THE TOP OF WASHING MACHINES AND CLOTHES DRYERS SHALL BE PERMITTED TO BE 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR.
2. OPERABLE PARTS OF FUEL DISPENSERS SHALL BE PERMITTED TO BE 54 INCHES MAXIMUM MEASURED FROM THE SURFACE OF THE VEHICULAR WAY WHERE FUEL DISPENSERS ARE INSTALLED ON EXISTING CURBS.
309 OPERABLE PARTS.
309.1 GENERAL. OPERABLE PARTS SHALL COMPLY WITH 309.
309.2 CLEAR FLOOR OR GROUND SPACE. CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE PROVIDED.
309.3 HEIGHT. OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN 308.
309.4 OPERATION. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.
EXCEPTION: GAS PUMP NOZZLES SHALL NOT BE REQUIRED TO PROVIDE OPERABLE PARTS THAT HAVE AN ACTIVATING FORCE OF 5 POUNDS MAXIMUM.

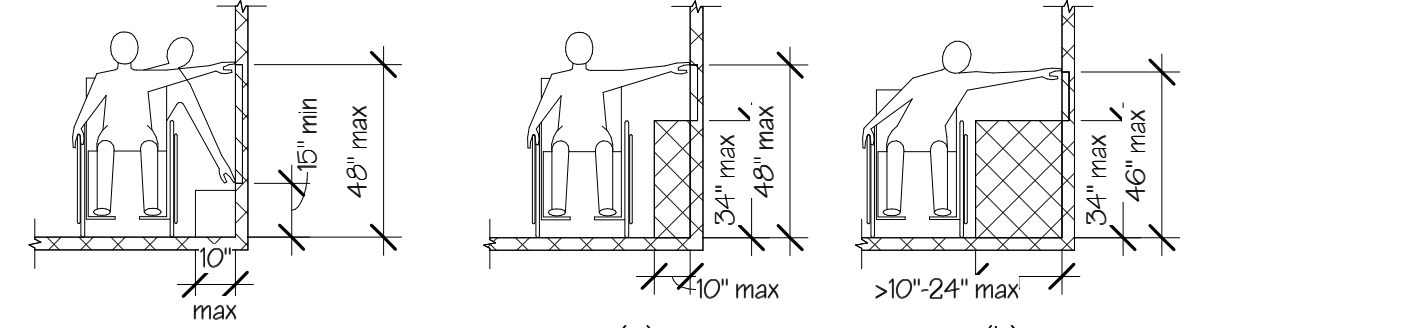


Fig. 308.3.1
Unobstructed
Side Reach

Fig. 308.3.2
Obstructed High Side Reach

CHAPTER 4: ACCESSIBLE ROUTES
401 GENERAL
401.1 SCOPE. THE PROVISIONS OF CHAPTER 4 SHALL APPLY WHERE REQUIRED BY CHAPTER 2 OR WHERE REFERENCED BY A REQUIREMENT IN THIS DOCUMENT.
402 ACCESSIBLE ROUTES
402.1 GENERAL. ACCESSIBLE ROUTES SHALL COMPLY WITH 402.
402.2 COMPONENTS. ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20, DOORWAYS, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, ELEVATORS, AND PLATFORM LIFTS. ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF CHAPTER 4.

403 WALKING SURFACES
403.1 GENERAL. WALKING SURFACES THAT ARE A PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH 403.
403.2 FLOOR OR GROUND SURFACE. FLOOR OR GROUND SURFACES SHALL COMPLY WITH 302.
403.3 SLOPE. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.
403.4 CHANGES IN LEVEL. CHANGES IN LEVEL SHALL COMPLY WITH 303.
403.5 CLEARANCES. WALKING SURFACES SHALL PROVIDE CLEARANCES COMPLYING WITH 403.5.
EXCEPTION: REMOVED FOR NON COMPLIANCE WITH SECTION 504 OF THE REHABILITATION ACT OF 1973 & HUD'S SECTION 504 REGULATION FOR NEW CONSTRUCTION AND ALTERATIONS.
403.5.1 CLEAR WIDTH. CLEAR WIDTH AS PROVIDED IN 403.5.2 AND 403.5.3, THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36 INCHES MINIMUM.
EXCEPTION: THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32 INCHES MINIMUM FOR A LENGTH OF 24 INCHES MAXIMUM PROVIDED THAT REDUCED WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48 INCHES LONG MINIMUM AND 36 INCHES WIDE MINIMUM.

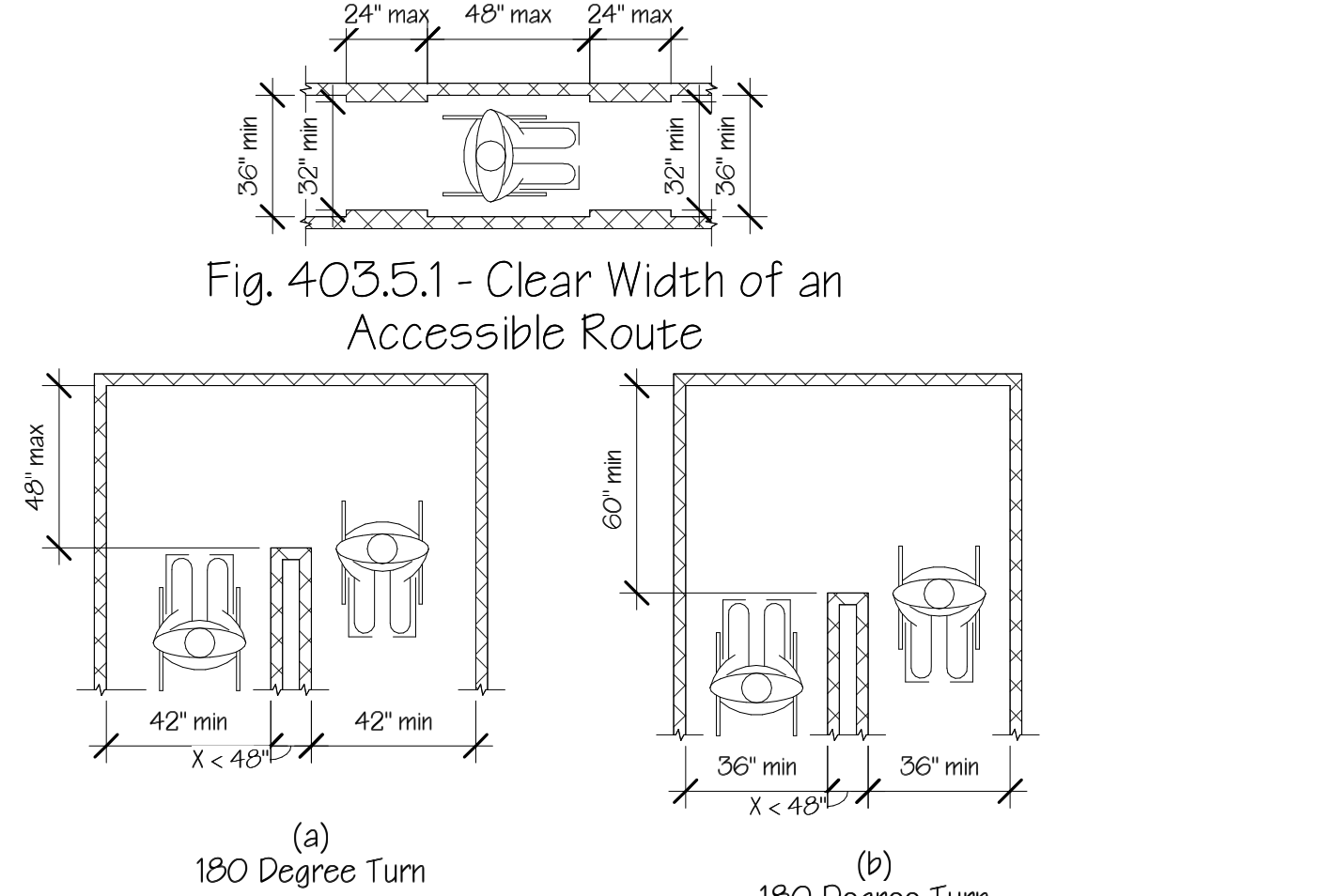


Fig. 403.5.1
Clear Width at Turn

403.5.2 CLEAR WIDTH AT TURN. WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN ELEMENT WHICH IS LESS THAN 48 INCHES WIDE, CLEAR WIDTH SHALL BE 42 INCHES MINIMUM APPROACHING THE TURN, 48 INCHES MINIMUM AT THE TURN AND 42 INCHES MINIMUM LEAVING THE TURN. EXCEPTION: WHERE THE CLEAR WIDTH AT THE TURN IS 60 INCHES MINIMUM COMPLIANCE WITH 403.5.2 SHALL NOT BE REQUIRED.
403.5.3 PASSING SPACES. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET MAXIMUM. PASSING SPACES SHALL BE EITHER: A SPACE 60 INCHES MINIMUM BY 60 INCHES MINIMUM; OR, AN INTERSECTION OF TWO WALKING SURFACES PROVIDING A T-SHAPED SPACE COMPLYING WITH 304.3.2 WHERE THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND 48 INCHES MINIMUM BEYOND THE INTERSECTION.
403.6 HANDRAILS. WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH RUNNING SLOPES NOT STEEPER THAN 1:20 THEY SHALL COMPLY WITH 505.

404 DOORS, DOORWAYS, AND GATES
404.1 GENERAL. DOORS, DOORWAYS, AND GATES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH 404.
EXCEPTION: DOORS, DOORWAYS, AND GATES DESIGNED TO BE OPERATED ONLY BY SECURITY PERSONNEL SHALL NOT BE REQUIRED TO COMPLY WITH 404.2.7, 404.2.8, 404.2.9, 404.3.2 AND 404.3.4 THROUGH 404.3.7.
404.2 MANUAL DOORS, DOORWAYS, AND MANUAL GATES. MANUAL DOORS AND DOORWAYS AND MANUAL GATES INTENDED FOR USER PASSAGE SHALL COMPLY WITH 404.2.
404.2.1 REVOLVING DOORS, GATES, AND TURNSTILES. REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE.
404.2.2 DOUBLE-LEAF DOORS AND GATES. AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY WITH 404.2.3 AND 404.2.4.
404.2.3 CLEAR WIDTH. DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WITH LOWER THAN 34 INCHES ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WITHIN 34 INCHES AND 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL NOT BE PERMITTED.
EXCEPTIONS:
1. IN ALTERATIONS, A PROJECTION OF 5/8 INCH MAXIMUM INTO THE REQUIRED CLEAR WIDTH SHALL BE PERMITTED FOR THE LATCH SIDE STOP.
2. DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

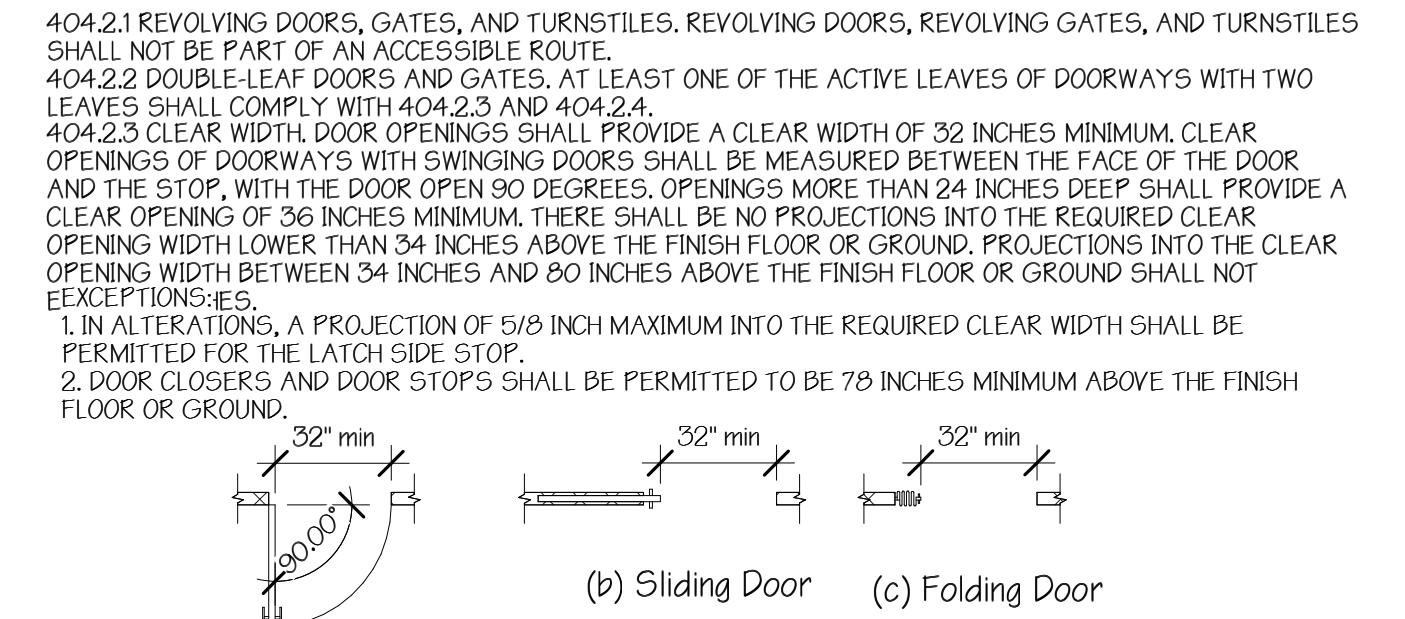


Fig. 404.2.3
Clear Width of Doorways

NOTES:
1. SECTIONS OF 2010 ADA NOT PERTAINING TO THIS PROJECT HAVE BEEN OMITTED.
2. FIGURES ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE MEASURED TO FINISHED SURFACES.
DIMENSIONS IN THE ACTUAL CONSTRUCTION DRAWINGS ARE MEASURED TO RAW FRAMING.

404.2.4 MANEUVERING CLEARANCES. MINIMUM MANEUVERING CLEARANCES AT DOORS AND GATES SHALL COMPLY WITH 404.2.4.1. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE.
EXCEPTION: ENTRY DOORS TO HOSPITAL PATIENT ROOMS SHALL NOT BE REQUIRED TO PROVIDE THE CLEARANCE BEYOND THE LATCH SIDE OF THE DOOR.
404.2.4.1 SWINGING DOORS AND GATES. SWINGING DOORS AND GATES SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.4.1.

TABLE 404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

TYPE OF USE	DOOR OR GATE SIDE	MINIMUM MANEUVERING CLEARANCE	
		PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (BEYOND LATCH SIDE UNLESS NOTED)
FROM FRONT	PULL	60 INCHES	18 INCHES
FROM FRONT	PUSH	48 INCHES	0 INCHES ¹
FROM HINGE SIDE	PULL	60 INCHES	36 INCHES
FROM HINGE SIDE	PULL	54 INCHES	42 INCHES
FROM HINGE SIDE	PUSH	42 INCHES ²	22 INCHES ³
FROM LATCH SIDE	PULL	48 INCHES ⁴	24 INCHES
FROM LATCH SIDE	PUSH	42 INCHES ⁴	24 INCHES

1. ADD 12 INCHES IF CLOSER AND LATCH ARE PROVIDED.
2. ADD 6 INCHES IF CLOSER AND LATCH ARE PROVIDED.
3. BEYOND HINGE SIDE.
4. ADD 6 INCHES IF CLOSER IS PROVIDED.

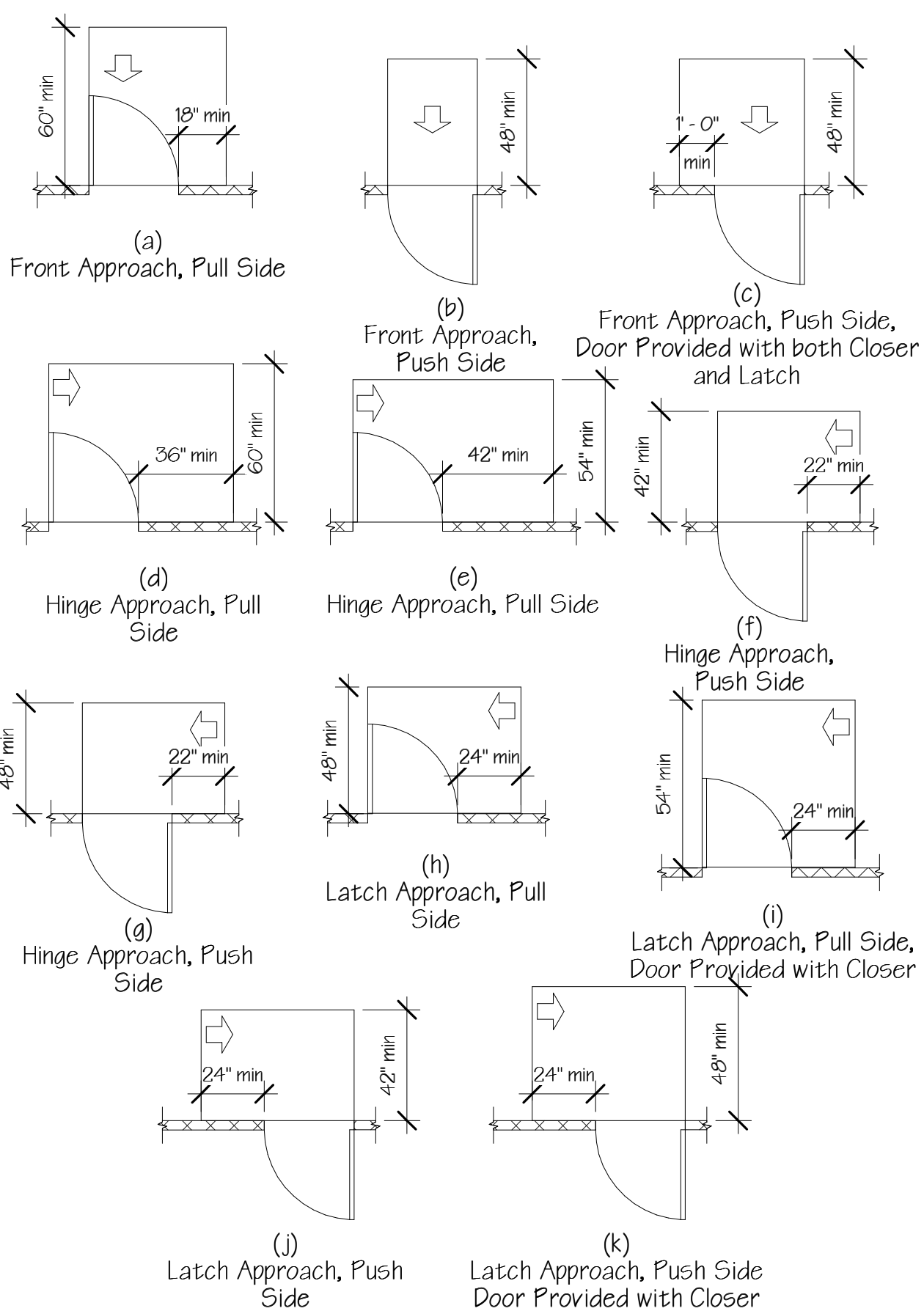
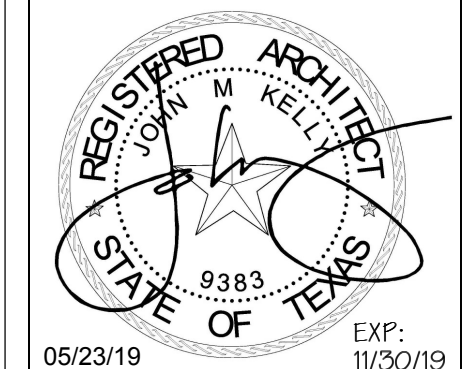


Fig. 404.2.4.1
Maneuvering Clearances at Manual Swinging
Doors and Gates

CONTINUED ON NEXT SHEET

DRAWN BY:	DPF, MAR
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LDG DEVELOPMENT

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MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

No.	Revision	Date
1		
2		
3		
4		
5		
ISSUED FOR PERMIT		
ISSUED FOR BID		
ISSUED FOR CONSTRUCTION		
DWG NAME		
DATE		
DESCRIPTION		
SHEET		

A1.4A

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN*

* WITH 11 EXCEPTIONS REMOVED OR MODIFIED TO COMPLY WITH SECTION 504 OF THE REHABILITATION ACT OF 1973 & HUD'S SECTION 504 REGULATION FOR NEW CONSTRUCTION AND ALTERATIONS.

404.2.4.2 DOORWAYS WITHOUT DOORS OR GATES, SLIDING DOORS, AND FOLDING DOORS. DOORWAYS LESS THAN 36 INCHES WIDE WITHOUT DOORS OR GATES, SLIDING DOORS, OR FOLDING DOORS SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.4.2.

TABLE 404.2.4.2 MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS OR GATES, MANUAL SLIDING DOORS, AND MANUAL FOLDING DOORS

MINIMUM MANEUVERING CLEARANCE		
APPROACH DIRECTION	PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (BEYOND STOP/LATCH SIDE UNLESS NOTED)
FROM FRONT	48 INCHES	0 INCHES
FROM SIDE ¹	42 INCHES	0 INCHES
FROM POCKET/HINGE SIDE	42 INCHES	22 INCHES
FROM STOP/LATCH SIDE	42 INCHES	24 INCHES

1. DOORWAY WITH NO DOOR ONLY.
2. BEYOND POCKET/HINGE SIDE.

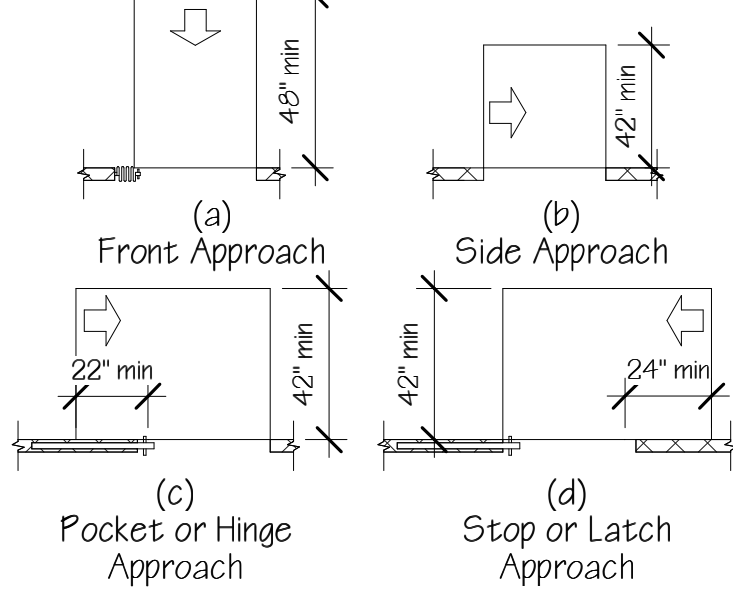


Fig. 404.2.4.2

Maneuvering Clearances at Doorways Without Doors, Sliding Doors, and Folding Doors

404.2.4.3 RECESSED DOORS AND GATES. MANEUVERING CLEARANCES FOR FORWARD APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18 INCHES OF THE LATCH SIDE OF A DOORWAY PROJECTS MORE THAN 8 INCHES BEYOND THE FACE OF THE DOOR, MEASURED PERPENDICULAR TO THE FACE OF THE DOOR OR GATE.

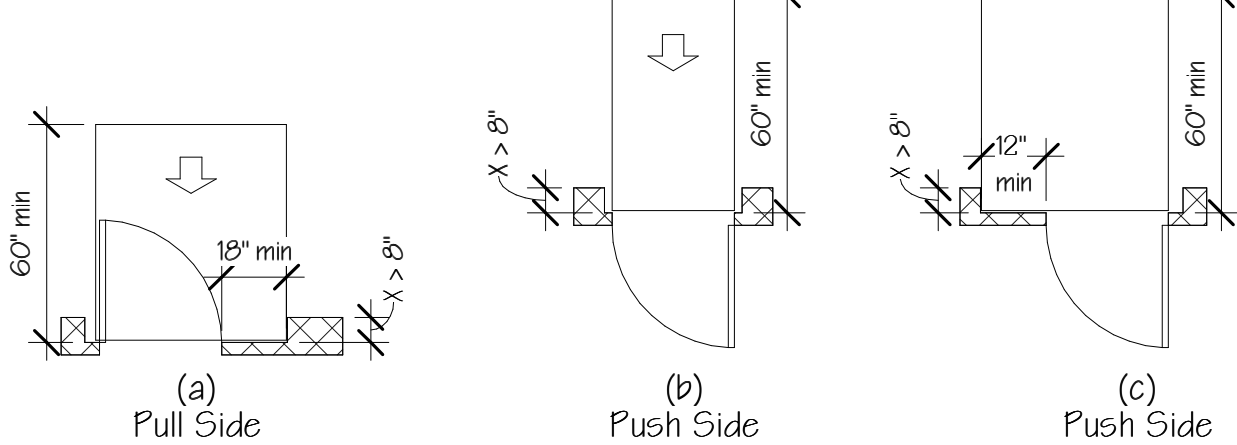


Fig. 404.2.4.3

Maneuvering Clearance at Recessed Doors and Gates

404.2.4.4 FLOOR OR GROUND SURFACE. FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING CLEARANCES SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED.

EXCEPTIONS:
1. SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.
2. CHANGES IN LEVEL AT THRESHOLDS COMPLYING WITH 404.2.5 SHALL BE PERMITTED.
404.2.5 THRESHOLDS. THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE 1/2 INCH HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH 302 AND 303.
EXCEPTION: EXISTING OR ALTERED THRESHOLDS 3/4 INCH HIGH MAXIMUM THAT HAVE A BEVELED EDGE ON EACH SIDE WITH A SLOPE NOT STEEPER THAN 1:2 SHALL NOT BE REQUIRED TO COMPLY WITH 404.2.5.
404.2.6 DOORS IN SERIES AND GATES IN SERIES. THE DISTANCE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES AND GATES IN SERIES SHALL BE 48 INCHES MINIMUM PLUS THE WIDTH OF DOORS OR GATES SWINGING INTO THE SPACE.

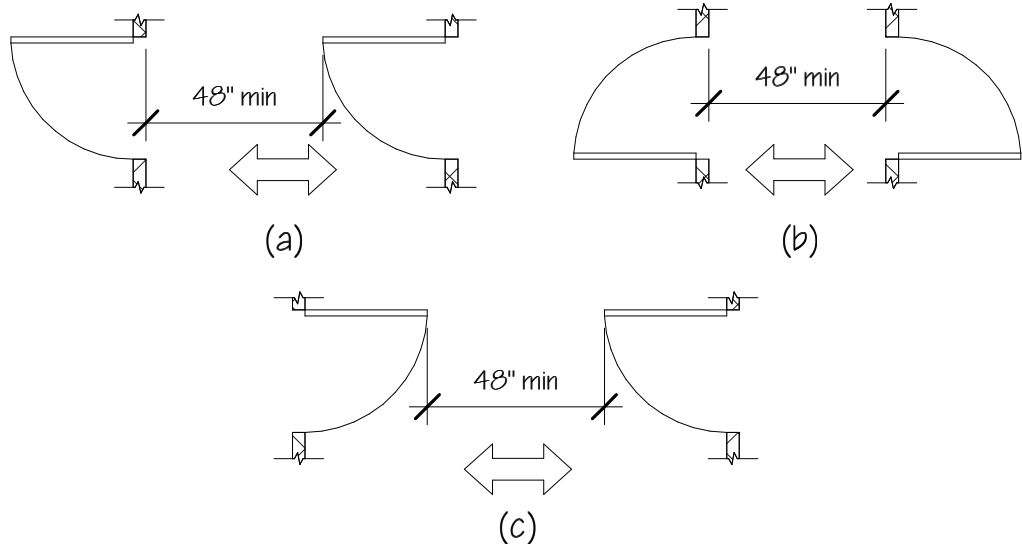


Fig. 404.2.6

Two Doors in a Series

404.2.7 DOOR AND GATE HARDWARE. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH 309.4. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND, WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.

EXCEPTIONS:
1. EXISTING LOCKS SHALL BE PERMITTED IN ANY LOCATION AT EXISTING GLAZED DOORS WITHOUT STILES, EXISTING OVERHEAD ROLLING DOORS OR GRILLES, AND SIMILAR EXISTING DOORS OR GRILLES THAT ARE DESIGNED WITH LOCKS THAT ARE ACTIVATED ONLY AT THE TOP OR BOTTOM RAIL.

2. ACCESS GATES IN BARRIER WALLS AND FENCES PROTECTING POOLS, SPAS, AND HOT TUBS SHALL BE PERMITTED TO HAVE OPERABLE PARTS OF THE RELEASE OF LATCH ON SELF-LATCHING DEVICES AT 54 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND PROVIDED THE SELF-LATCHING DEVICES ARE NOT ALSO SELF-LOCKING DEVICES AND OPERATED BY MEANS OF A KEY, ELECTRONIC OPENER, OR INTEGRAL COMBINATION LOCK.

404.2.8 CLOSING SPEED. DOOR AND GATE CLOSING SPEED SHALL COMPLY WITH 404.2.8.

404.2.8.1 DOOR CLOSERS AND GATE CLOSERS. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.

404.2.8.2 SPRING HINGES. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 15 SECONDS MINIMUM.

404.2.9 DOOR AND GATE OPENING FORCE. FIRE DOORS SHALL HAVE A MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS:

1. INTERIOR HINGED DOORS AND GATES: 5 POUNDS MAXIMUM.

2. SLIDING OR FOLDING DOORS: 5 POUNDS MAXIMUM. THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION.

404.2.10 DOOR AND GATE SURFACES. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE OTHER. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.

EXCEPTIONS:

1. SLIDING DOORS SHALL NOT BE REQUIRED TO COMPLY WITH 404.2.10.

2. TEMPERED GLASS DOORS WITHOUT STILES AND HAVING A BOTTOM RAIL OR SHOE WITH THE TOP LEADING EDGE TAPEDED AT 60 DEGREES MINIMUM FROM THE HORIZONTAL SHALL NOT BE REQUIRED TO MEET THE 10 INCH BOTTOM SMOOTH SURFACE HEIGHT REQUIREMENT.

3. DOORS AND GATES THAT DO NOT EXTEND TO WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND SHALL NOT BE REQUIRED TO COMPLY WITH 404.2.10.

4. EXISTING DOORS AND GATES WITHOUT SMOOTH SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND SHALL NOT BE REQUIRED TO PROVIDE SMOOTH SURFACES COMPLYING WITH 404.2.10 PROVIDED THAT IF ADDED KICK PLATES ARE INSTALLED, CAVITIES CREATED BY SUCH KICK PLATES ARE CAPPED.

404.2.11 VISION LIGHTS. DOORS, GATES, AND SIDE LIGHTS ADJACENT TO DOORS OR GATES, CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED PANEL LOCATED 43 INCHES MAXIMUM ABOVE THE FINISH FLOOR.

EXCEPTION: VISION LIGHTS WITH THE LOWEST PART MORE THAN 66 INCHES (1675 MM) FROM THE FINISH FLOOR OR GROUND SHALL NOT BE REQUIRED TO COMPLY WITH 404.2.11.

404.3 AUTOMATIC AND POWER-ASSISTED DOORS AND GATES. AUTOMATIC DOORS AND AUTOMATIC GATES SHALL COMPLY WITH 404.3. FULL-POWERED AUTOMATIC DOORS SHALL COMPLY WITH ANSI/BHMA A156.10. LOW-ENERGY AND POWER ASSISTED DOORS SHALL COMPLY WITH ANSI/BHMA A156.19 (1997 OR 2002 EDITION).

404.3.1 CLEAR WIDTH. DOORWAYS SHALL PROVIDE A CLEAR OPENING OF 32 INCHES (815 MM) MINIMUM IN POWER-ON AND POWER-OFF MODE. THE MINIMUM CLEAR WIDTH FOR AUTOMATIC DOOR SYSTEMS IN A DOORWAY SHALL BE BASED ON THE CLEAR OPENING PROVIDED BY ALL LEAVES IN THE OPEN POSITION.

404.3.2 MANEUVERING CLEARANCE. CLEARANCES AT POWER-ASSISTED DOORS AND GATES SHALL COMPLY WITH 404.2.4. CLEARANCES AT AUTOMATIC DOORS AND GATES WITHOUT STANDBY POWER AND SERVING AN ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH 404.2.4.

EXCEPTION: WHERE AUTOMATIC DOORS AND GATES REMAIN OPEN IN THE POWER-OFF CONDITION, COMPLIANCE WITH 404.2.4 SHALL NOT BE REQUIRED.

404.3.3 THRESHOLDS. THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH 404.2.5.

404.3.4 DOORS IN SERIES AND GATES IN SERIES. DOORS IN SERIES AND GATES IN SERIES SHALL COMPLY WITH 404.2.6.

404.3.5 CONTROLS. MANUALLY OPERATED CONTROLS SHALL COMPLY WITH 309. THE CLEAR FLOOR SPACE ADJACENT TO THE CONTROLS SHALL BE LOCATED BEYOND THE ARC OF THE DOOR SWING.

404.3.6 BREAK-OUT OPENING. WHERE DOORS AND GATES WITHOUT STANDBY POWER ARE A PART OF A MEANS OF EGRESS, THE CLEAR BREAK-OUT OPENING AT SWINGING OR SLIDING DOORS AND GATES SHALL BE 32 INCHES MINIMUM WHEN OPERATED IN EMERGENCY MODE.

EXCEPTION: WHERE MANUAL SWINGING DOORS AND GATES COMPLY WITH 404.2 AND SERVE THE SAME MEANS OF EGRESS COMPLIANCE WITH 404.3.6 SHALL NOT BE REQUIRED.

404.3.7 REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES. REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE.

405 RAMP

405.1 GENERAL. RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH 405.

EXCEPTION: IN ASSEMBLY AREAS, AISLE RAMPS ADJACENT TO SEATING AND NOT SERVING ELEMENTS REQUIRED TO BE ON AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED TO COMPLY WITH 405.

405.2 SLOPE. RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12.

EXCEPTION: IN EXISTING SITES, BUILDINGS, OR FACILITIES, RAMPS SHALL BE PERMITTED TO HAVE RUNNING SLOPES STEEPER THAN 1:12 COMPLYING WITH TABLE 405.2 WHERE SUCH SLOPES ARE NECESSARY DUE TO SPACE LIMITATIONS.

TABLE 405.2 ALLOWABLE RAMP DIMENSIONS FOR CONSTRUCTION IN EXISTING SITES, BUILDINGS, AND FACILITIES

SLOPE (STEEPER THAN 1:8 NOT PERMITTED)	MAXIMUM RISE
STEEPER THAN 1:10 BUT NOT STEEPER THAN 1:8	3 INCHES
STEEPER THAN 1:12 BUT NOT STEEPER THAN 1:10	6 INCHES

405.3 CROSS SLOPE. CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48.

405.4 FLOOR OR GROUND SURFACES. FLOOR OR GROUND SURFACES OF RAMP RUNS SHALL COMPLY WITH 302. CHANGES IN LEVEL OTHER THAN THE RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RUNS.

405.5 CLEAR WIDTH. THE CLEAR WIDTH OF A RAMP RUN AND, WHERE HANDRAILS ARE PROVIDED, THE CLEAR WIDTH BETWEEN HANDRAILS SHALL BE 36 INCHES MINIMUM.

EXCEPTION: WITHIN EMPLOYEE WORK AREAS, THE REQUIRED CLEAR WIDTH OF RAMPS THAT ARE A PART OF COMMON USE CIRCULATION PATHS SHALL BE PERMITTED TO BE DECREASED BY WORK AREA EQUIPMENT PROVIDED THAT THE DECREASE IS ESSENTIAL TO THE FUNCTION OF THE WORK BEING PERFORMED.

405.6 RISE. THE RISE FOR ANY RAMP RUN SHALL BE 30 INCHES MAXIMUM.

405.7 LANDINGS. RAMPS SHALL HAVE LANDINGS AT THE TOP AND THE BOTTOM OF EACH RAMP RUN. LANDINGS SHALL COMPLY WITH 405.7.

405.7.1 SLOPE. LANDINGS SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED. EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

405.7.2 WIDTH. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING.

405.7.3 LENGTH. THE LANDING CLEAR LENGTH SHALL BE 60 INCHES LONG MINIMUM.

405.7.4 CHANGE IN DIRECTION. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 60 INCHES MINIMUM.

405.7.5 DOORWAYS. WHERE DOORWAYS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES REQUIRED BY 404.2.4 AND 404.3.2 SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING AREA.

405.8 HANDRAILS. RAMP RUNS WITH A RISE GREATER THAN 6 INCHES SHALL HAVE HANDRAILS COMPLYING WITH 505.

* EXCEPTION: REMOVED FOR NON COMPLIANCE WITH SECTION 504 OF THE REHABILITATION ACT OF 1973 & HUD'S SECTION 504 REGULATION FOR NEW CONSTRUCTION AND ALTERATIONS.

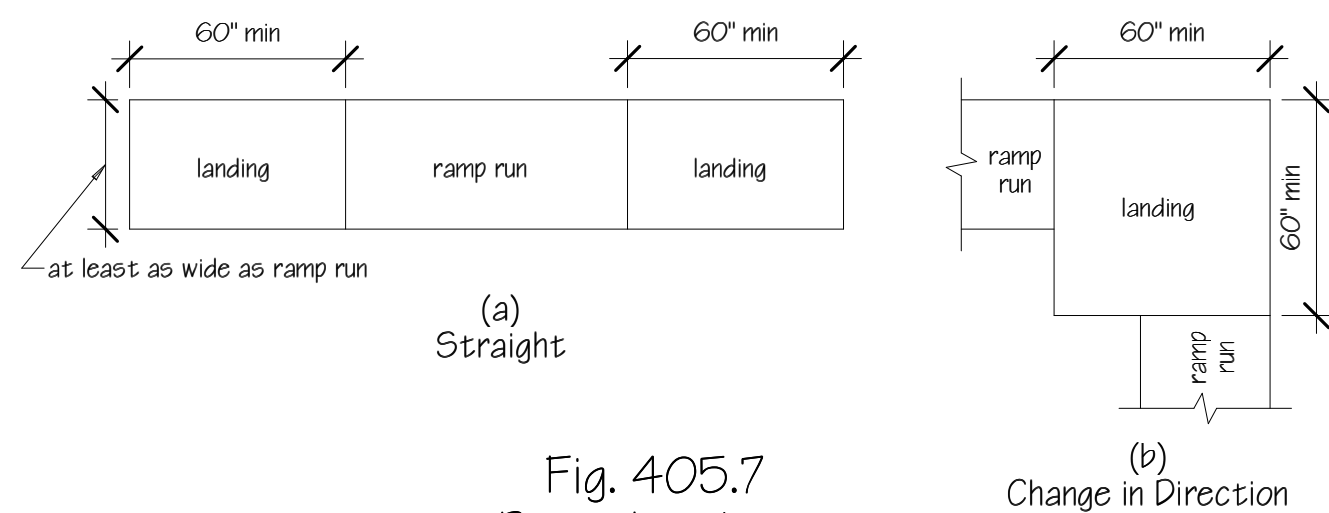


Fig. 405.7

Ramp Landings

405.9 EDGE PROTECTION. EDGE PROTECTION COMPLYING WITH 405.9.1 OR 405.9.2 SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND AT EACH SIDE OF RAMP LANDINGS.

EXCEPTIONS:

1. EDGE PROTECTION SHALL NOT BE REQUIRED ON RAMPS THAT ARE NOT REQUIRED TO HAVE HANDRAILS AND HAVE SIDES COMPLYING WITH 405.3.

2. EDGE PROTECTION SHALL NOT BE REQUIRED ON THE SIDES OF RAMP LANDINGS SERVING AN ADJOINING RAMP RUN OR STAIRWAY.

3. EDGE PROTECTION SHALL NOT BE REQUIRED ON THE SIDES OF RAMP LANDINGS HAVING A VERTICAL DROP-OFF OF 1/4 INCH MAXIMUM WITHIN 10 INCHES HORIZONTALLY OF THE MINIMUM LANDING AREA SPECIFIED IN 405.7.

405.9.1 EXTENDED FLOOR OR GROUND SURFACE. THE FLOOR OR GROUND SURFACE OF THE RAMP RUN OR LANDING SHALL EXTEND 12 INCHES MINIMUM BEYOND THE INSIDE FACE OF A HANDRAIL COMPLYING WITH 505.

405.9.2 CURB OR BARRIER. A CURB OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4 INCH DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES OF THE FINISH FLOOR OR GROUND SURFACE.

405.10 WET CONDITIONS. LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.

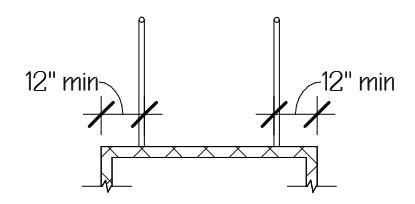


Fig. 405.9.1

Extended Floor or Ground Surface Edge Protection

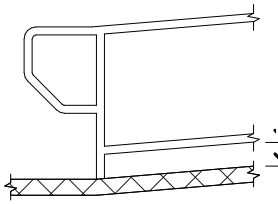


Fig. 405.9.2

Curb or Barrier Edge Protection

406 CURB RAMPS

406.1 GENERAL. CURB RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH 406, 405.2 THROUGH 405.5, AND 405.10.

406.2 COUNTER SLOPE. COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL.

406.3 SIDES OF CURB RAMPS. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10.

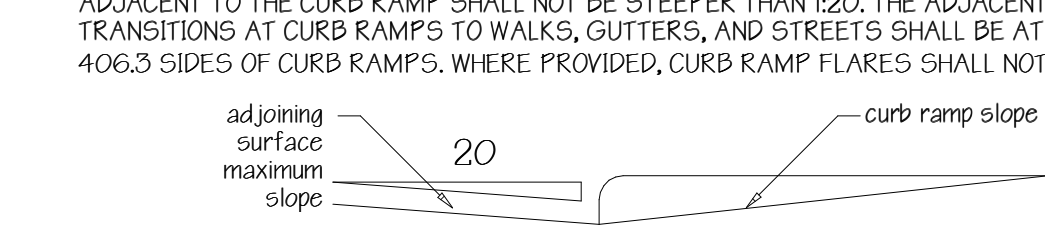


Fig. 406.2

Counter Slope of Surfaces Adjacent to Curb Ramps

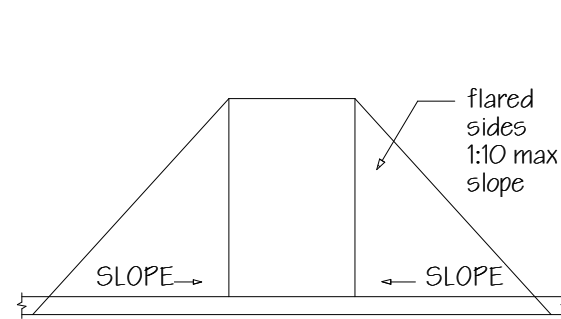


Fig. 406.3

Sides of Curb Ramps

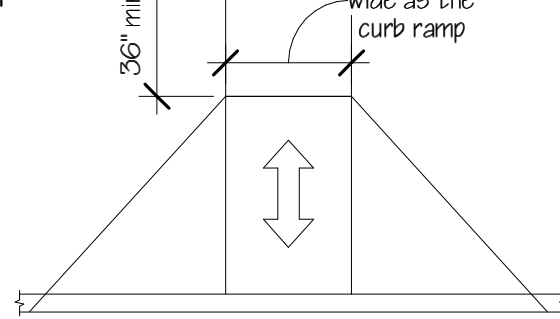


Fig. 406.4

Landings at the Top of Curb Ramps

406.4 LANDINGS. LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. THE LANDING CLEAR LENGTH SHALL BE 36 INCHES MINIMUM. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING.

EXCEPTION: IN ALTERATIONS, WHERE THERE IS NO LANDING AT THE TOP OF CURB RAMPS, CURB RAMP FLARES SHALL BE PROVIDED AND SHALL NOT BE STEEPER THAN 1:12.

406.5 LOCATION. CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESSIBLE AISLES.

406.6 DIAGONAL CURB RAMPS. DIAGONAL OR CORNER TYPE CURB RAMPS WITH RETURNED CURBS OR OTHER WELL DEFINED EDGES SHALL HAVE THE EDGES PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE A CLEAR SPACE 48 INCHES MINIMUM OUTSIDE ACTIVE TRAFFIC LANES OF THE ROADWAY. DIAGONAL CURB RAMPS PROVIDED AT MARKED CROSSINGS SHALL PROVIDE THE 48 INCHES MINIMUM CLEAR SPACE WITHIN THE MARKINGS. DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 24 INCHES LONG MINIMUM LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.

406.7 ISLANDS. RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES. EACH CURB RAMP SHALL HAVE A LEVEL AREA 48 INCHES LONG MINIMUM BY 36 INCHES WIDE MINIMUM AT THE TOP OF THE CURB RAMP IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS. EACH 48 INCH MINIMUM BY 36 INCH MINIMUM AREA SHALL BE ORIENTED SO THAT THE 48 INCH MINIMUM LENGTH IS IN THE DIRECTION OF RUNNING SLOPE OF THE CURB RAMP IT SERVES. THE 48 INCH MINIMUM BY 36 INCH MINIMUM AREAS AND THE ACCESSIBLE ROUTE SHALL BE PERMITTED TO OVERLAP.

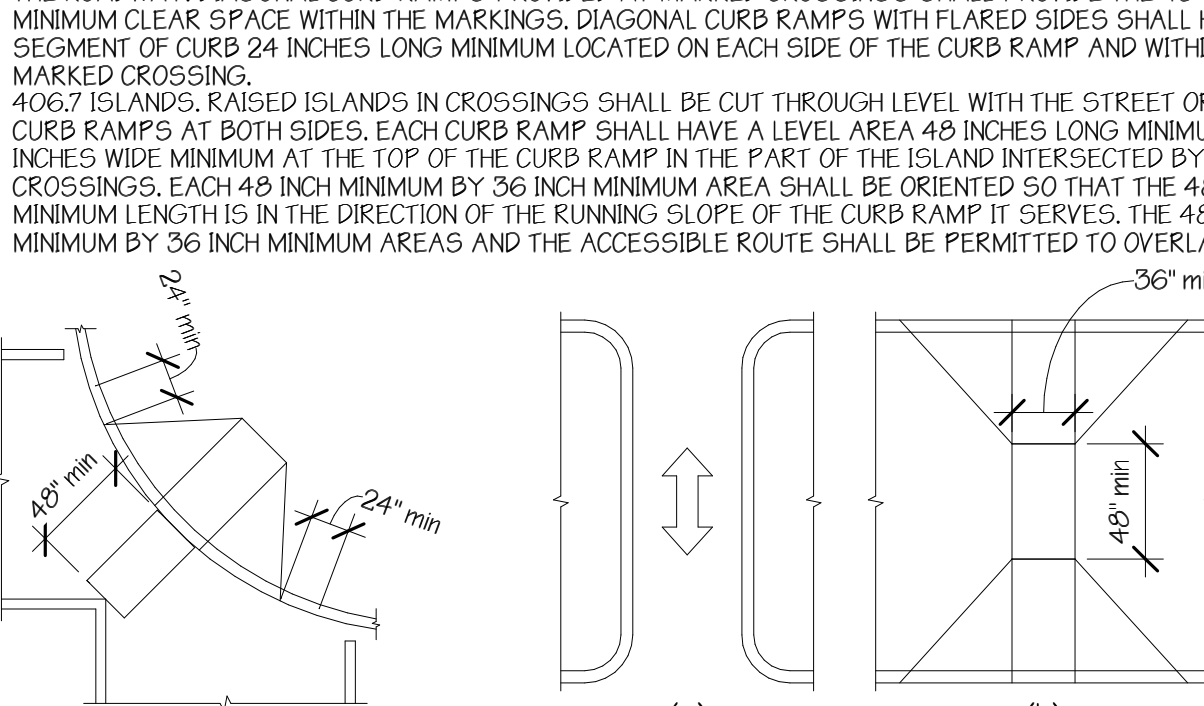


Fig. 406.6

Diagonal or Corner Type Curb Ramps

Fig. 406.7

Islands in Crossings

CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS

501 GENERAL

501.1 SCOPE. THE PROVISIONS OF CHAPTER 5 SHALL APPLY WHERE REQUIRED BY CHAPTER 2 OR WHERE REFERENCED BY A REQUIREMENT IN THIS DOCUMENT.

502 PARKING SPACES

502.1 GENERAL. CAR AND VAN PARKING SPACES SHALL COMPLY WITH 502, WHERE PARKING SPACES ARE MARKED WITH LINES, WITH MEASUREMENTS OF PARKING SPACES AND ACCESS AISLES SHALL BE MADE FROM THE CENTERLINE OF THE MARKINGS.

EXCEPTION: WHERE PARKING SPACES OR ACCESS AISLES ARE NOT ADJACENT TO ANOTHER PARKING SPACE OR ACCESS AISLE, MEASUREMENTS SHALL BE PERMITTED TO INCLUDE THE FULL WIDTH OF THE LINE DEFINING THE PARKING SPACE OR ACCESS AISLE.

502.2 VEHICLE SPACES. CAR PARKING SPACES SHALL BE 96 INCHES WIDE MINIMUM AND VAN PARKING SPACES SHALL BE 132 INCHES WIDE MINIMUM. SHALL BE MARKED TO DEFINE THE WIDTH, AND SHALL HAVE AN ADJACENT ACCESS AISLE COMPLYING WITH 502.3.

EXCEPTION: VAN PARKING SPACES SHALL BE PERMITTED TO BE 96 INCHES WIDE MINIMUM WHERE THE ACCESS AISLE IS 96 INCHES WIDE MINIMUM.

502.3 ACCESS AISLE. ACCESS AISLES SERVING PARKING SPACES SHALL COMPLY WITH 502.3. ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE. TWO PARKING SPACES SHALL BE PERMITTED TO SHARE A COMMON ACCESS AISLE.

502.3.1 WIDTH. ACCESS AISLES SERVING CAR AND VAN PARKING SPACES SHALL BE 60 INCHES WIDE MINIMUM.

502.3.2 LENGTH. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE PARKING SPACES THEY SERVE.

502.3.3 MARKING. ACCESS AISLES SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THEM.

502.3.4 LOCATION. ACCESS AISLES SHALL NOT OVERLAP THE VEHICULAR WAY. ACCESS AISLES SHALL BE PERMITTED TO BE PLACED ON EITHER SIDE OF THE PARKING SPACE EXCEPT FOR ANGLED VAN PARKING SPACES WHICH SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACES.

502.4 FLOOR OR GROUND SURFACES. PARKING SPACES AND ACCESS AISLES SERVING THEM SHALL COMPLY WITH 302. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE. CHANGES IN LEVEL ARE NOT PERMITTED.

EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

502.5 VERTICAL CLEARANCE. PARKING SPACES FOR VANS AND ACCESS AISLES AND VEHICULAR ROUTES SERVING THEM SHALL PROVIDE A VERTICAL CLEARANCE OF 98 INCHES MINIMUM.

502.6 IDENTIFICATION. PARKING SPACE IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.7.2.1. SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE." SIGNS SHALL BE 60 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN.

502.7 RELATIONSHIP TO ACCESSIBLE ROUTES. PARKING SPACES AND ACCESS AISLES SHALL BE DESIGNED SO THAT CARS AND VANS, WHEN PARKED, CANNOT OBSTRUCT THE REQUIRED CLEAR WIDTH OF ADJACENT ACCESSIBLE ROUTES.

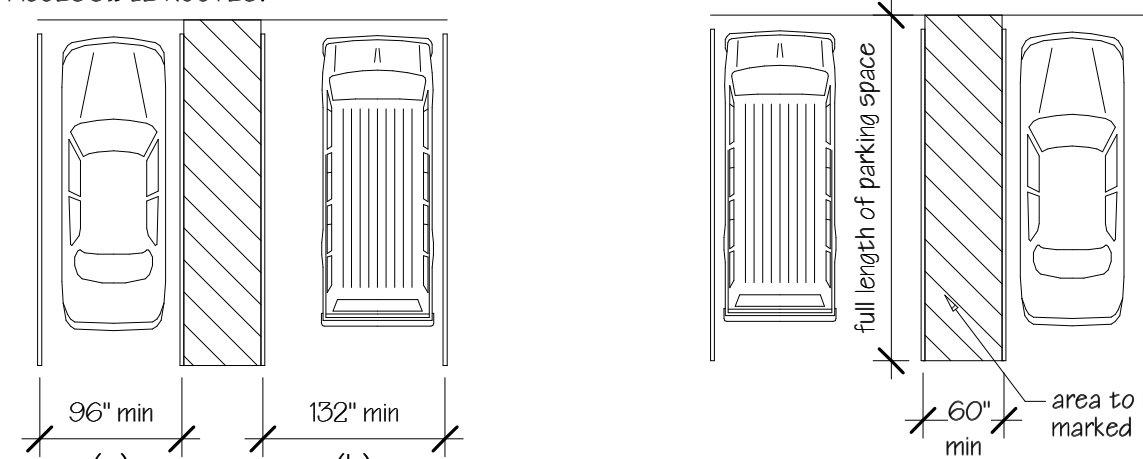


Fig. 502.2

Vehicle Parking Spaces

Fig. 502.3

Parking Space Access Aisle

503 PASSENGER LOADING ZONES

503.1 GENERAL. PASSENGER LOADING ZONES SHALL COMPLY WITH 503.

503.2 VEHICLE PULL-UP SPACE. PASSENGER LOADING ZONES SHALL PROVIDE A VEHICULAR PULL-UP SPACE 96 INCHES WIDE MINIMUM AND 20 FEET LONG MINIMUM.

503.3 ACCESS AISLE. PASSENGER LOADING ZONES SHALL PROVIDE ACCESS AISLES COMPLYING WITH 503 ADJACENT TO THE VEHICLE PULL-UP SPACE. ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE AND SHALL NOT OVERLAP THE VEHICULAR WAY.

503.3.1 WIDTH. ACCESS AISLES SERVING VEHICLE PULL-UP SPACES SHALL BE 60 INCHES WIDE MINIMUM.

503.3.2 LENGTH. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE VEHICLE PULL-UP SPACES THEY SERVE.

503.3.3 MARKING. ACCESS AISLES SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THEM.

NOTES:
1. SECTIONS OF 2010 ADA NOT PERTAINING TO THIS PROJECT HAVE BEEN OMITTED.
2. FIGURES ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE MEASURED TO FINISHED SURFACES. DIMENSIONS IN THE ACTUAL CONSTRUCTION DRAWINGS ARE MEASURED TO RAW FRAMING.

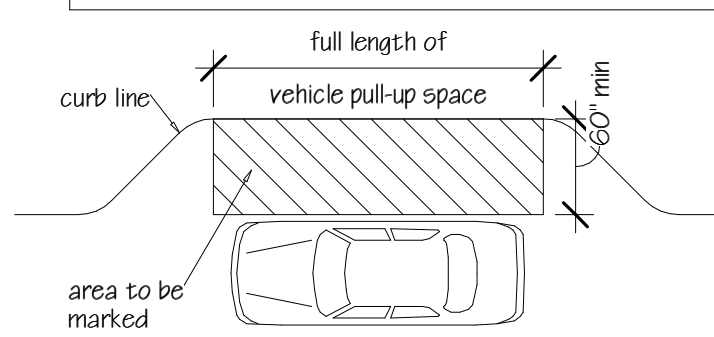


Fig. 503.3

Passenger Loading Zone Access Aisle

503.4 FLOOR AND GROUND SURFACES. VEHICLE PULL-UP SPACES AND ACCESS AISLES SERVING THEM SHALL COMPLY WITH 302. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE VEHICLE PULL-UP SPACE THEY SERVE. CHANGES IN LEVEL ARE NOT PERMITTED.

EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

504 STAIRWAYS

504.1 GENERAL. STAIRS SHALL COMPLY WITH 504.

504.2 TREADS AND RISERS. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS. RISERS SHALL BE 4 INCHES HIGH MINIMUM AND 7 INCHES HIGH MAXIMUM. TREADS SHALL BE 1 INCHES DEEP MINIMUM.

504.3 OPEN RISERS. OPEN RISERS ARE NOT PERMITTED.

504.4 TREAD SURFACE. STAIR TREADS SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED. EXCEPTION: TREADS SHALL BE PERMITTED TO HAVE A SLOPE NOT STEEPER THAN 1:48.

504.5 NOSINGS. THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 INCH MAXIMUM. NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30 DEGREES MAXIMUM FROM VERTICAL. THE PERMITTED PROJECTION OF THE NOSING SHALL EXTEND 1 1/2 INCHES MAXIMUM OVER THE TREAD BELOW.

504.6 HANDRAILS. STAIRS SHALL HAVE HANDRAILS COMPLYING WITH 505.

504.7 WET CONDITIONS. STAIR TREADS AND LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.

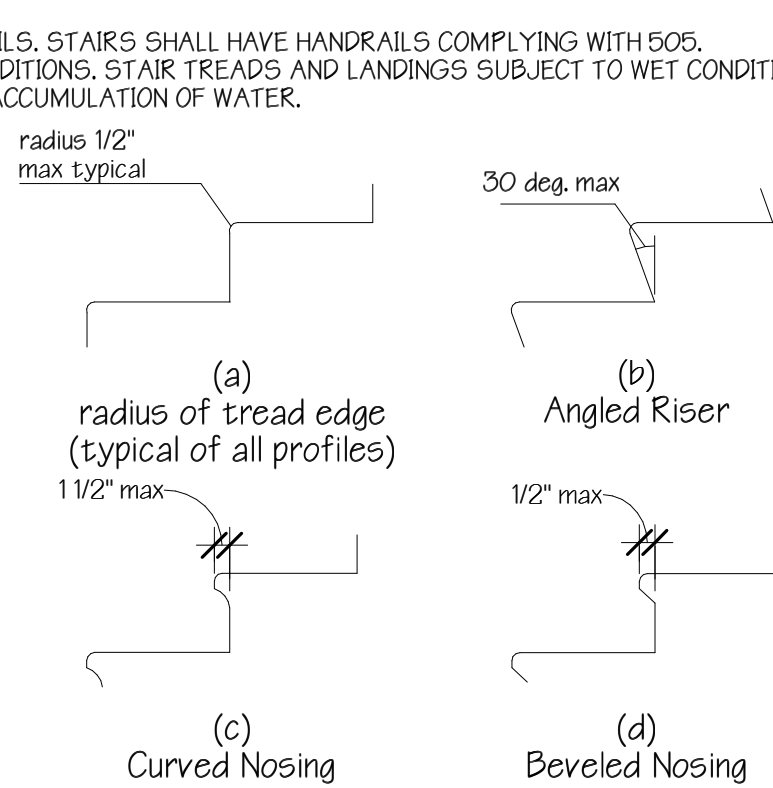


Fig. 504.5

Stair Nosings

505 HANDRAILS

505.1 GENERAL. HANDRAILS PROVIDED ALONG WALKING SURFACES COMPLYING WITH 403, REQUIRED AT RAMPS COMPLYING WITH 405, AND REQUIRED AT STAIRS COMPLYING WITH 504 SHALL COMPLY WITH 505.

505.2 WHERE REQUIRED. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS.

EXCEPTION: IN ASSEMBLY AREAS, HANDRAILS SHALL NOT BE REQUIRED ON BOTH SIDES OF AISLE RAMPS WHERE A HANDRAIL IS PROVIDED AT EITHER SIDE OR WITHIN THE AISLE WIDTH.

505.3 CONTINUITY. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS AND RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS.

EXCEPTION: IN ASSEMBLY AREAS, HANDRAILS ON RAMPS SHALL NOT BE REQUIRED TO BE CONTINUOUS IN AISLES SERVING SEATING.

505.4 HEIGHT. TOP OF

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN*

* WITH 11 EXCEPTIONS REMOVED OR MODIFIED TO COMPLY WITH SECTION 504 OF THE REHABILITATION ACT OF 1973 & HUD'S SECTION 504 REGULATION FOR NEW CONSTRUCTION AND ALTERATIONS.

608.3 GRAB BARS. GRAB BARS SHALL COMPLY WITH 609 AND SHALL BE PROVIDED IN ACCORDANCE WITH 608.3, WHERE MULTIPLE GRAB BARS ARE USED, REQUIRED HORIZONTAL GRAB BARS SHALL BE INSTALLED AT THE SAME HEIGHT ABOVE THE FINISH FLOOR.

EXCEPTIONS:
1. GRAB BARS SHALL NOT BE REQUIRED TO BE INSTALLED IN A SHOWER LOCATED IN A BATHING FACILITY FOR A SINGLE OCCUPANT ACCESSED ONLY THROUGH A PRIVATE OFFICE, AND NOT FOR COMMON USE OR PUBLIC USE PROVIDED THAT REINFORCEMENT HAS BEEN INSTALLED IN WALLS AND LOCATED SO AS TO PERMIT THE INSTALLATION OF GRAB BARS COMPLYING WITH 608.3.
2. IN RESIDENTIAL DWELLING UNITS, GRAB BARS SHALL NOT BE REQUIRED TO BE INSTALLED IN SHOWERS LOCATED IN BATHING FACILITIES PROVIDED THAT REINFORCEMENT HAS BEEN INSTALLED IN WALLS AND LOCATED SO AS TO PERMIT THE INSTALLATION OF GRAB BARS COMPLYING WITH 608.3.
608.3.1 TRANSFER TYPE SHOWER COMPARTMENTS. IN TRANSFER TYPE COMPARTMENTS, GRAB BARS SHALL BE PROVIDED ACROSS THE CONTROL WALL AND BACK WALL TO A POINT 18 INCHES FROM THE CONTROL WALL.
608.3.2 STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS. WHERE A SEAT IS PROVIDED IN STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS, GRAB BARS SHALL BE PROVIDED ON THE BACK WALL AND THE SIDE WALL OPPOSITE THE SEAT. GRAB BARS SHALL NOT BE PROVIDED ABOVE THE SEAT, WHERE A SEAT IS NOT PROVIDED IN STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS, GRAB BARS SHALL BE PROVIDED ON THREE WALLS. GRAB BARS SHALL BE INSTALLED 6 INCHES MAXIMUM FROM ADJACENT WALLS.

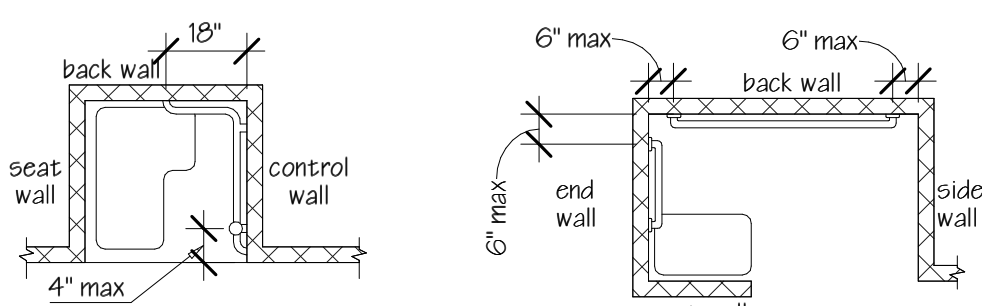


Fig. 608.3.1
Grab Bars in
Transfer-Type
Showers

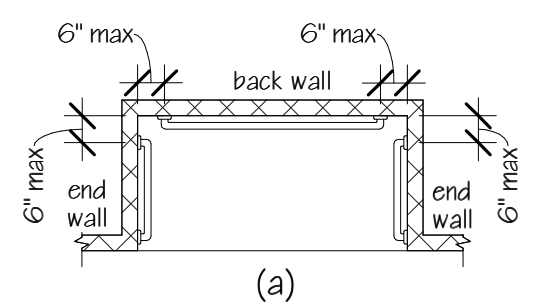


Fig. 608.3.3
Grab Bars in
Alternate
Roll-in-Type Shower

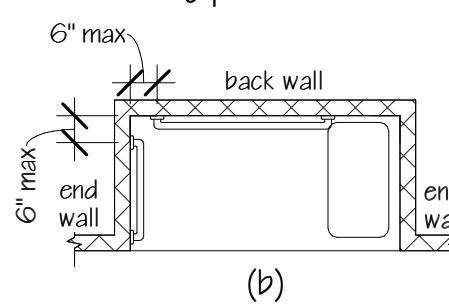


Fig. 608.3.2
Grab Bars in Standard Roll-in-Type Showers

608.3.3 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS. IN ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS, GRAB BARS SHALL BE PROVIDED ON THE BACK WALL AND THE SIDE WALL FARTEST FROM THE COMPARTMENT ENTRY. GRAB BARS SHALL NOT BE PROVIDED ABOVE THE SEAT. GRAB BARS SHALL BE INSTALLED 6 INCHES MAXIMUM FROM ADJACENT WALLS.
608.4 SEATS. A FOLDING OR NON-FOLDING SEAT SHALL BE PROVIDED IN TRANSFER TYPE SHOWER COMPARTMENTS. A FOLDING SEAT SHALL BE PROVIDED IN ROLL-IN TYPE SHOWERS REQUIRED IN TRANSIENT LODGING GUEST ROOMS WITH MOBILITY FEATURES COMPLYING WITH 806.2. SEATS SHALL COMPLY WITH 610.2.
EXCEPTION: IN RESIDENTIAL DWELLING UNITS, SEATS SHALL NOT BE REQUIRED IN TRANSFER TYPE SHOWER COMPARTMENTS PROVIDED THAT REINFORCEMENT HAS BEEN INSTALLED IN WALLS SO AS TO PERMIT THE INSTALLATION OF SEATS COMPLYING WITH 608.4.
608.5 CONTROLS, CONTROLS, FAUCETS, AND SHOWER SPRAY UNITS SHALL COMPLY WITH 309.4.
608.5.1 TRANSFER TYPE SHOWER COMPARTMENTS. IN TRANSFER TYPE SHOWER COMPARTMENTS, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE INSTALLED ON THE SIDE WALL OPPOSITE THE SEAT 30 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE SHOWER FLOOR AND SHALL BE LOCATED ON THE CONTROL WALL 15 INCHES MAXIMUM FROM THE CENTERLINE OF THE SEAT TOWARD THE SHOWER OPENING.

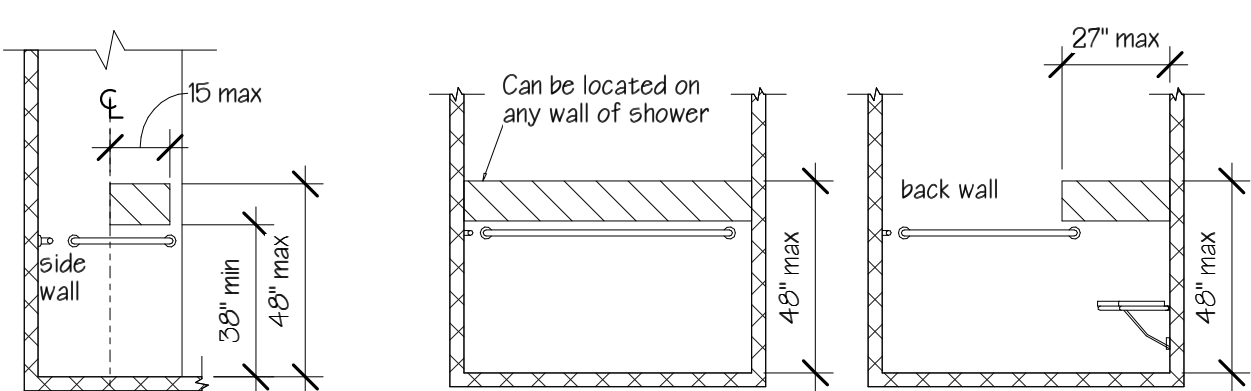


Fig. 608.5.1
Transfer-Type Shower
Compartment Control
Location

Fig. 608.5.2
Standard Roll-in-Type Shower
Compartment Control Location

608.5.2 STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS. THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE LOCATED ABOVE THE GRAB BAR, BUT NO HIGHER THAN 48 INCHES ABOVE THE SHOWER FLOOR, WHERE A SEAT IS PROVIDED. THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE INSTALLED ON THE BACK WALL ADJACENT TO THE SEAT WALL AND SHALL BE LOCATED 27 INCHES MAXIMUM FROM THE SEAT WALL.
608.5.3 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS. IN ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENTS, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE LOCATED ABOVE THE GRAB BAR, BUT NO HIGHER THAN 48 INCHES ABOVE THE SHOWER FLOOR, WHERE A SEAT IS PROVIDED. THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE LOCATED ON THE SIDE WALL ADJACENT TO THE SEAT 27 INCHES MAXIMUM FROM THE SIDE WALL BEHIND THE SEAT OR SHALL BE LOCATED ON THE BACK WALL OPPOSITE THE SEAT 15 INCHES MAXIMUM, LEFT OR RIGHT, OF THE CENTERLINE OF THE SEAT, WHERE A SEAT IS NOT PROVIDED. THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE INSTALLED ON THE SIDE WALL FARTEST FROM THE COMPARTMENT ENTRY.

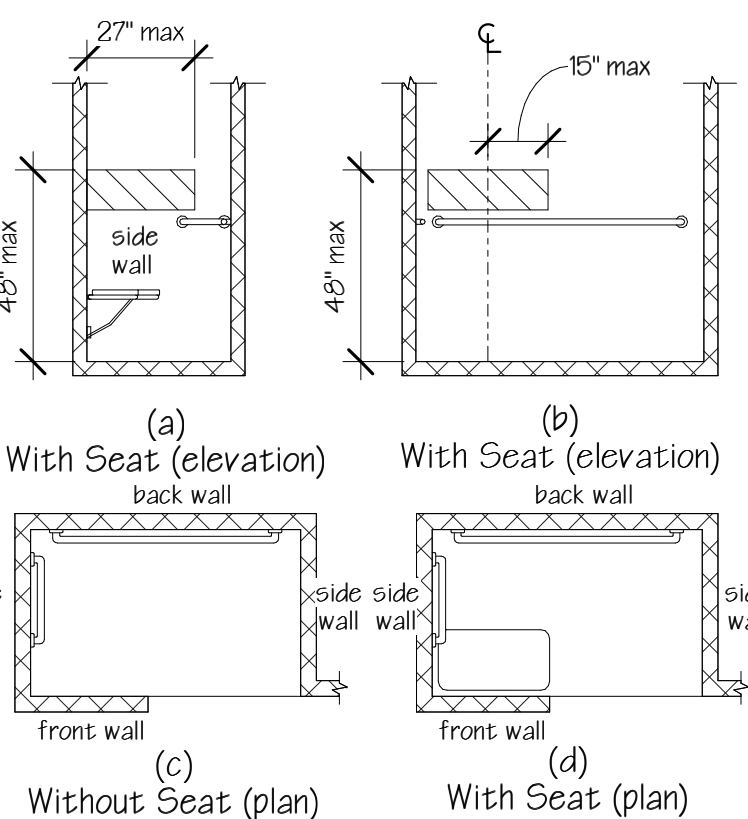


Fig. 608.5.3
Alternate Roll-in-Type Shower
Compartment Control Location

608.6 SHOWER SPRAY UNIT AND WATER. A SHOWER SPRAY UNIT WITH A NOSE 59 INCHES LONG MINIMUM THAT CAN BE USED BOTH AS A FIXED-POSITION SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED. THE SHOWER SPRAY UNIT SHALL HAVE AN ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF. IF AN ADJUSTABLE-HEIGHT SHOWER HEAD ON A VERTICAL BAR IS USED, THE BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF GRAB BARS. SHOWER SPRAY UNITS SHALL DELIVER WATER THAT IS 120°F MAXIMUM.
EXCEPTION: A FIXED SHOWER HEAD LOCATED AT 48 INCHES MAXIMUM ABOVE THE SHOWER FINISH FLOOR SHALL BE PERMITTED INSTEAD OF A HAND-HELD SPRAY UNIT IN FACILITIES THAT ARE NOT MEDICAL CARE FACILITIES, LONG-TERM CARE FACILITIES, TRANSIENT LODGING GUEST ROOMS, OR RESIDENTIAL DWELLING UNITS.

608.7 THRESHOLDS. THRESHOLDS IN ROLL-IN TYPE SHOWER COMPARTMENTS SHALL BE 1/2 INCH HIGH MAXIMUM. THRESHOLDS IN TRANSFER TYPE SHOWER COMPARTMENTS, THRESHOLDS 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED, ROUNDED, OR VERTICAL.
EXCEPTION: A THRESHOLD 2 INCHES HIGH MAXIMUM SHALL BE PERMITTED IN TRANSFER TYPE SHOWER COMPARTMENTS IN EXISTING FACILITIES WHERE PROVISION OF A 1/2 INCH HIGH THRESHOLD WOULD DISTURB THE STRUCTURAL REINFORCEMENT OF THE FLOOR SLAB.
609 GRAB BARS
609.1 GENERAL. GRAB BARS IN TOILET FACILITIES AND BATHING FACILITIES SHALL COMPLY WITH 609.
609.2 CROSS SECTION. GRAB BARS SHALL HAVE A CROSS SECTION COMPLYING WITH 609.2.1 OR 609.2.2.
609.2.1 CIRCULAR CROSS SECTION. GRAB BARS WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4 INCHES MINIMUM AND 2 INCHES MAXIMUM.
609.2.2 NON-CIRCULAR CROSS SECTION. GRAB BARS WITH NON-CIRCULAR CROSS SECTIONS SHALL HAVE A CROSS SECTION DIMENSION OF 2 INCHES MAXIMUM AND A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 4.8 INCHES MAXIMUM.

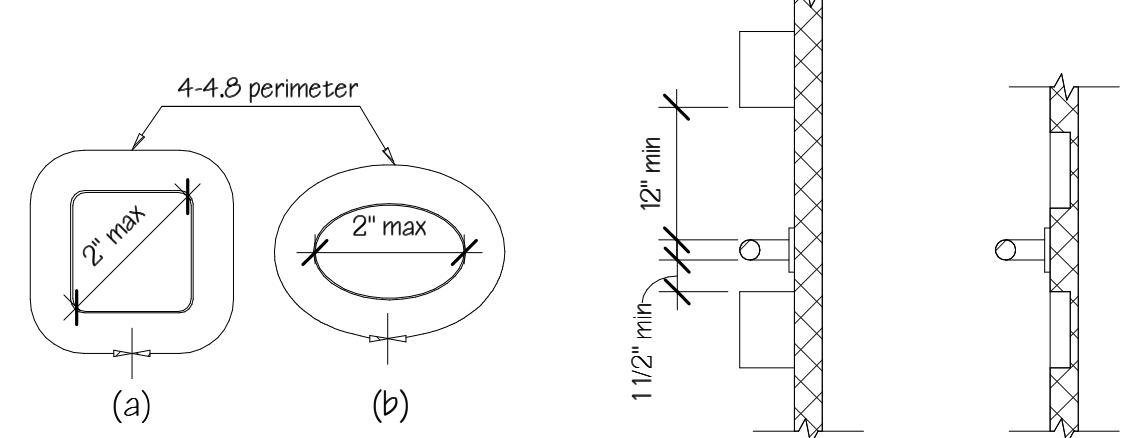


Fig. 609.2.2 Grab Bar
Non-circular Cross
Section

Figure 609.3
Spacing of Grab Bars

609.3 SPACING. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2 INCHES. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1 1/2 INCHES MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM.
EXCEPTION: THE SPACE BETWEEN THE GRAB BARS AND SHOWER CONTROLS, SHOWER FITTINGS, AND OTHER GRAB BARS ABOVE SHALL BE PERMITTED TO BE 1 1/2 INCHES MINIMUM.
609.4 POSITION OF GRAB BARS. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE, EXCEPT THAT AT WATER CLOSETS FOR CHILDRENS USE COMPLYING WITH 604.9, GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION 18 INCHES MINIMUM AND 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE. THE HEIGHT OF THE LOWER GRAB BAR ON THE BACK WALL OF A BATHTUB SHALL COMPLY WITH 607.4.11 OR 607.4.21.
609.5 SURFACE HAZARDS. GRAB BARS AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
609.6 FITTINGS. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
609.7 INSTALLATION. GRAB BARS SHALL BE INSTALLED IN ANY MANNER THAT PROVIDES A GRIPPING SURFACE AT THE SPECIFIED LOCATIONS AND THAT DOES NOT OBSTRUCT THE REQUIRED CLEAR FLOOR SPACE.
609.8 STRUCTURAL STRENGTH. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

610 SEATS
610.1 GENERAL. SEATS IN ACCESSIBLE BATHTUBS AND SHOWER COMPARTMENTS SHALL COMPLY WITH SECTION 610.
610.2 BATHTUB SEATS. THE HEIGHT OF BATHTUB SEATS SHALL BE 17 INCHES MINIMUM TO 19 INCHES MAXIMUM ABOVE THE BATHTUB FLOOR, MEASURED TO THE TOP OF THE SEAT. REMOVABLE IN-TUB SEATS SHALL BE 15 INCHES MINIMUM AND 16 INCHES MAXIMUM IN DEPTH. REMOVABLE IN-TUB SEATS SHALL BE CAPABLE OF SECURE PLACEMENT. PERMANENT SEATS SHALL BE 15 INCHES MINIMUM IN DEPTH AND SHALL EXTEND FROM THE BACK WALL TO THE OUTER EDGE OF THE BATHTUB. PERMANENT SEATS SHALL BE POSITIONED AT THE HEAD END OF THE BATHTUB.

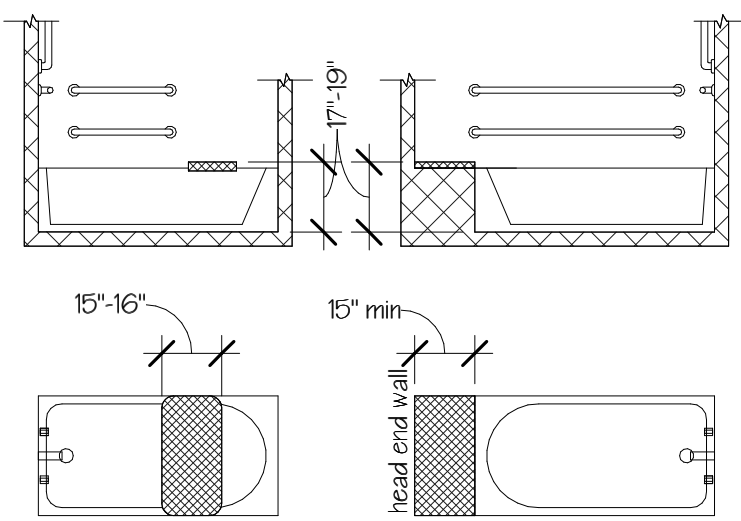


Fig. 610.2 - Bathtubs Seats

610.3 SHOWER COMPARTMENT SEATS. WHERE A SEAT IS PROVIDED IN A STANDARD ROLL-IN SHOWER COMPARTMENT, IT SHALL BE A FOLDING TYPE AND SHALL BE ON THE WALL ADJACENT TO THE CONTROLS. THE HEIGHT OF THE SEAT SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE BATHTUB FLOOR, MEASURED TO THE TOP OF THE SEAT. IN TRANSFER-TYPE AND ALTERNATE ROLL-IN-TYPE SHOWERS, THE SEAT SHALL EXTEND ALONG THE SEAT WALL TO A POINT WITHIN 3 INCHES OF THE COMPARTMENT ENTRY. IN STANDARD ROLL-IN-TYPE SHOWERS, THE SEAT SHALL EXTEND FROM THE CONTROL WALL TO A POINT WITHIN 3 INCHES OF THE COMPARTMENT ENTRY. SEATS SHALL COMPLY WITH SECTION 610.3.1 OR 610.3.2.
610.3.1 RECTANGULAR SEATS. THE REAR EDGE OF A RECTANGULAR SEAT SHALL BE 2 1/2 INCHES MAXIMUM AND THE FRONT EDGE 15 INCHES MINIMUM TO 16 INCHES MAXIMUM FROM THE SEAT WALL. THE SIDE EDGE OF THE SEAT SHALL BE 1 1/2 INCHES MAXIMUM FROM THE BACK WALL OF A TRANSFER-TYPE SHOWER AND 1 1/2 INCHES MAXIMUM FROM THE CONTROL WALL OF A ROLL-IN-TYPE SHOWER.
610.3.2 L-SHAPED SEATS. THE REAR EDGE OF AN L-SHAPED SEAT SHALL BE 2 1/2 INCHES MAXIMUM AND THE FRONT EDGE 15 INCHES MINIMUM TO 16 INCHES MAXIMUM FROM THE SEAT WALL. THE REAR EDGE OF THE "L" PORTION OF THE SEAT SHALL BE 1 1/2 INCHES MAXIMUM FROM THE WALL AND THE FRONT EDGE SHALL BE 14 INCHES MINIMUM AND 15 INCHES MAXIMUM FROM THE WALL. THE END OF THE "L" SHALL BE 22 INCHES MINIMUM AND 23 INCHES MAXIMUM FROM THE MAIN SEAT WALL.
610.4 STRUCTURAL STRENGTH. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHERE A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE SEAT, FASTENER MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

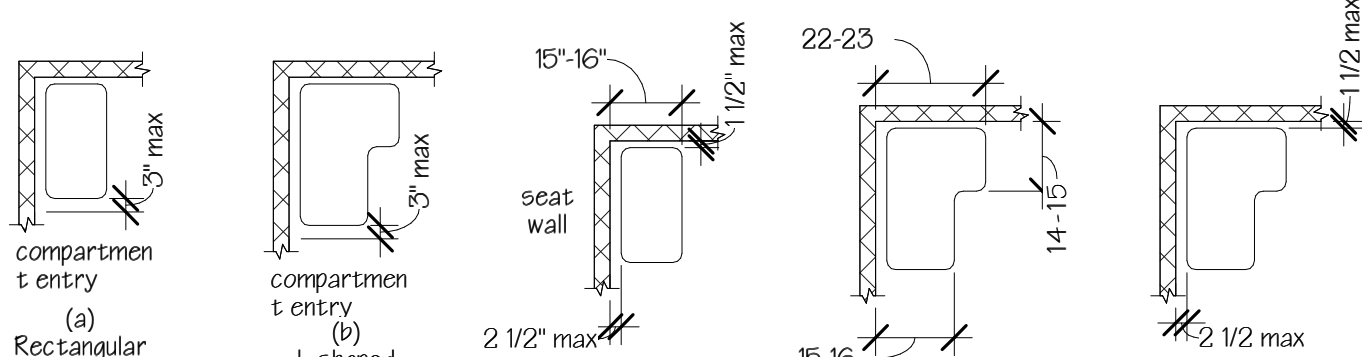


Fig. 610.3
Extent of Seat

Fig. 610.3.1
Rectangular
Shower Seat

Fig. 610.3.2
L-Shaped Shower
Compartment Seat

611 WASHING MACHINES AND CLOTHES
611.1 GENERAL. ACCESSIBLE WASHING MACHINES AND CLOTHES DRYERS SHALL COMPLY WITH SECTION 611.
611.2 CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305, POSITIONED FOR PARALLEL APPROACH, SHALL BE PROVIDED. THE CLEAR FLOOR SPACE SHALL BE CENTERED ON THE APPLIANCE.
611.3 OPERABLE PARTS. OPERABLE PARTS, INCLUDING DOORS, LINT SCREENS, DETERGENT AND BLEACH COMPARTMENTS, SHALL COMPLY WITH SECTION 308.
611.4 HEIGHT. ALL MACHINES SHALL BE FRONT LOADING AND SHALL HAVE THE BOTTOM OF THE OPENING TO THE LAUNDRY COMPARTMENT 15 INCHES MINIMUM AND 34 INCHES MAXIMUM ABOVE THE FLOOR (MODIFIED TO COMPLY WITH SECTION 504 OF THE REHABILITATION ACT OF 1973 & HUD'S SECTION 504 REGULATION FOR NEW CONSTRUCTION AND ALTERATIONS).

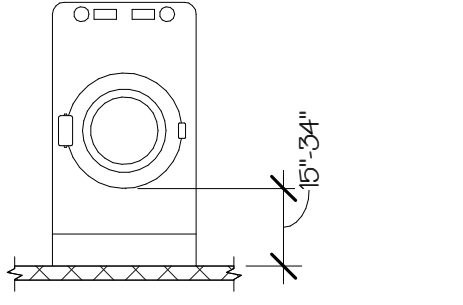


Fig. 611.4

* Height of Laundry Equipment

(modified to comply with Section 504 of the Rehabilitation Act of 1973 & HUD's Section 504 regulation for new construction and alterations)

612 SAUNAS AND STEAM ROOMS
612.1 GENERAL. SAUNAS AND STEAM ROOMS SHALL COMPLY WITH SECTION 612.
612.2 BENCH. WHERE SEATING IS PROVIDED IN SAUNAS AND STEAM ROOMS, AT LEAST ONE BENCH SHALL COMPLY WITH 305. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE REQUIRED BY 303.2.
EXCEPTION: A READILY REMOVABLE BENCH SHALL BE PERMITTED TO OBSTRUCT THE TURNING SPACE REQUIRED BY 612.3 AND CLEAR FLOOR OR GROUND SPACE REQUIRED BY 303.2.
612.3 TURNING SPACE. A TURNING SPACE COMPLYING WITH 304 SHALL BE PROVIDED WITHIN SAUNAS AND STEAM ROOMS.

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

701 GENERAL. THE PROVISIONS OF CHAPTER 7 SHALL APPLY WHERE REQUIRED BY CHAPTER 2 OR WHERE REFERENCED BY A REQUIREMENT IN THIS DOCUMENT.
702 FIRE ALARM SYSTEMS
702.1 GENERAL. FIRE ALARM SYSTEMS SHALL HAVE PERMANENTLY INSTALLED AUDIBLE AND VISIBLE ALARMS COMPLYING WITH NFPA 72 (2013 OR 2009 EDITION), EXCEPT THAT THE MAXIMUM ALLOWABLE SOUND LEVEL OF AUDIBLE NOTIFICATION APPLIANCES COMPLYING WITH SECTION 4-3.2.1 OF NFPA 72 (1999 EDITION) SHALL HAVE A SOUND LEVEL NO MORE THAN 110 DB AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE. IN ADDITION, ALARMS IN GUEST ROOMS REQUIRED TO PROVIDE COMMUNICATION FEATURES SHALL COMPLY WITH SECTIONS 4-3 AND 4-4 OF NFPA 72 (1999 EDITION) OR SECTIONS 7.4 AND 7.5 OF NFPA 72 (2002 EDITION).
EXCEPTION: FIRE ALARM SYSTEMS IN MEDICAL CARE FACILITIES SHALL BE PERMITTED TO BE PROVIDED IN 703 SIGNANCE WITH INDUSTRY PRACTICE.

703.1 GENERAL. SIGNS SHALL COMPLY WITH 703, WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED.
703.2 RAISED CHARACTERS. RAISED CHARACTERS SHALL COMPLY WITH 703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH 703.3. RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDANCE WITH 703.4.
703.2.1 DEPTH. RAISED CHARACTERS SHALL BE 1/32 INCH MINIMUM ABOVE THEIR BACKGROUND.
703.2.2 CASE. CHARACTERS SHALL BE UPPERCASE.
703.2.3 STYLE. CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
703.2.4 CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "T".
703.2.5 CHARACTER HEIGHT. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH MINIMUM AND 2 INCHES MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "T".
EXCEPTION: WHERE SEPARATE RAISED AND VISUAL CHARACTERS WITH THE SAME INFORMATION ARE PROVIDED, RAISED CHARACTER HEIGHT SHALL BE PERMITTED TO BE 1/2 INCH MINIMUM.

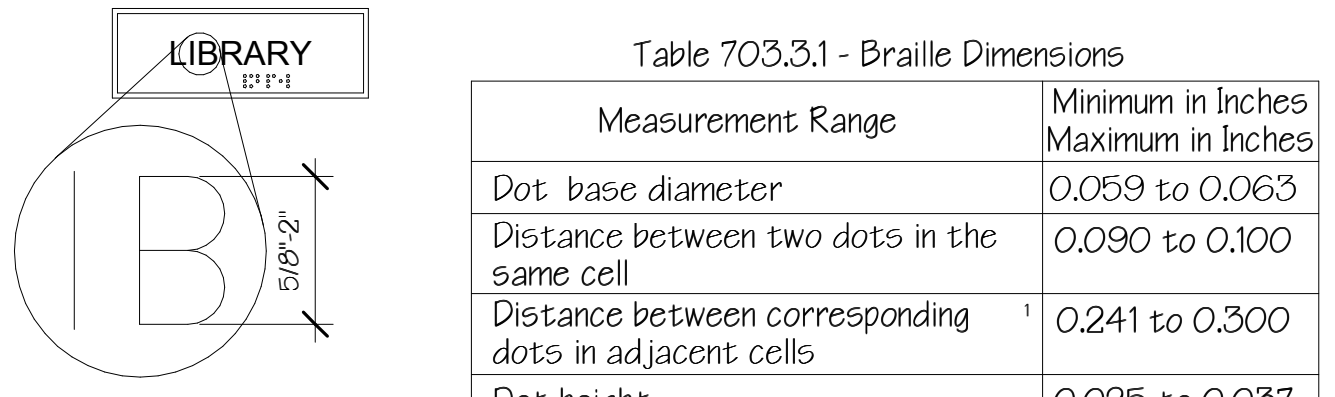


Fig. 703.2.5
Height of Raised
Character

703.2.6 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "T" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
703.2.7 CHARACTER SPACING. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH MINIMUM.
703.2.8 LINE SPACING. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT.
703.3 BRAILLE. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH 703.3 AND 703.4.
703.3.1 DIMENSIONS AND CAPITALIZATION. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.

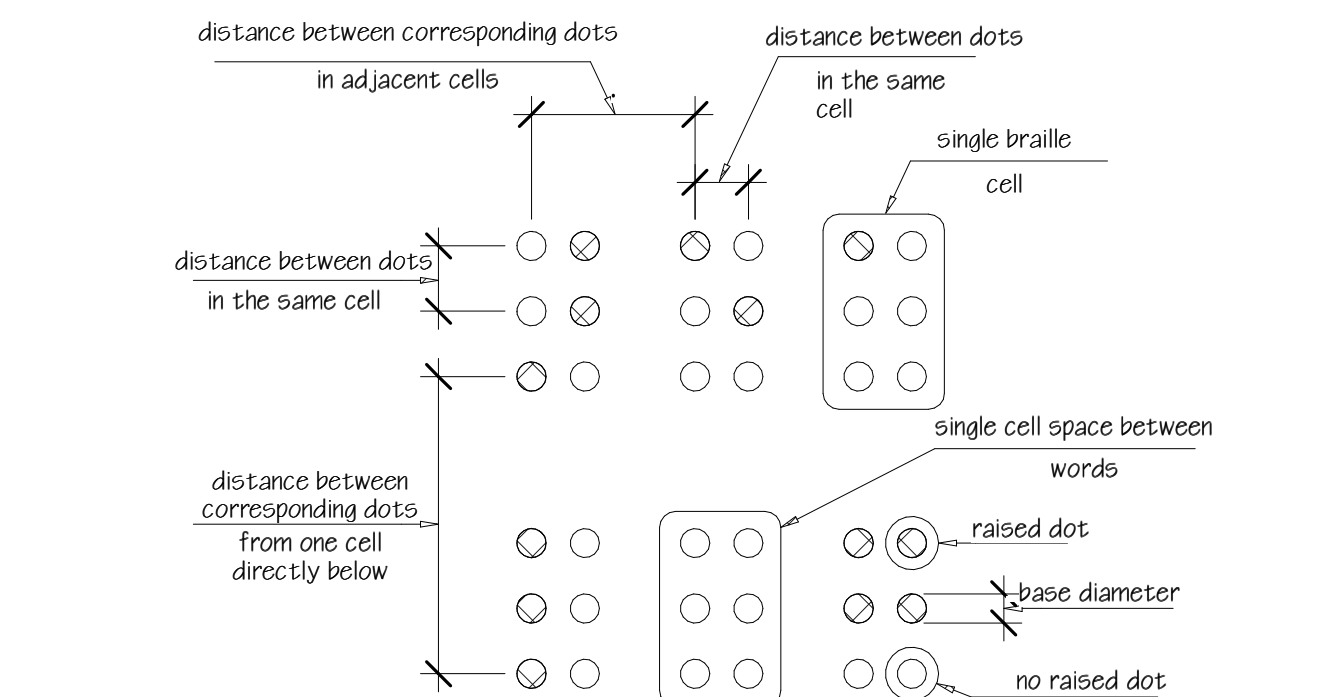


Fig. 703.3.1 Braille Measurement

703.3.2 POSITION. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.
EXCEPTION: BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED 3/16 INCH MINIMUM AND SHALL BE LOCATED EITHER DIRECTLY BELOW OR ADJACENT TO THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS.

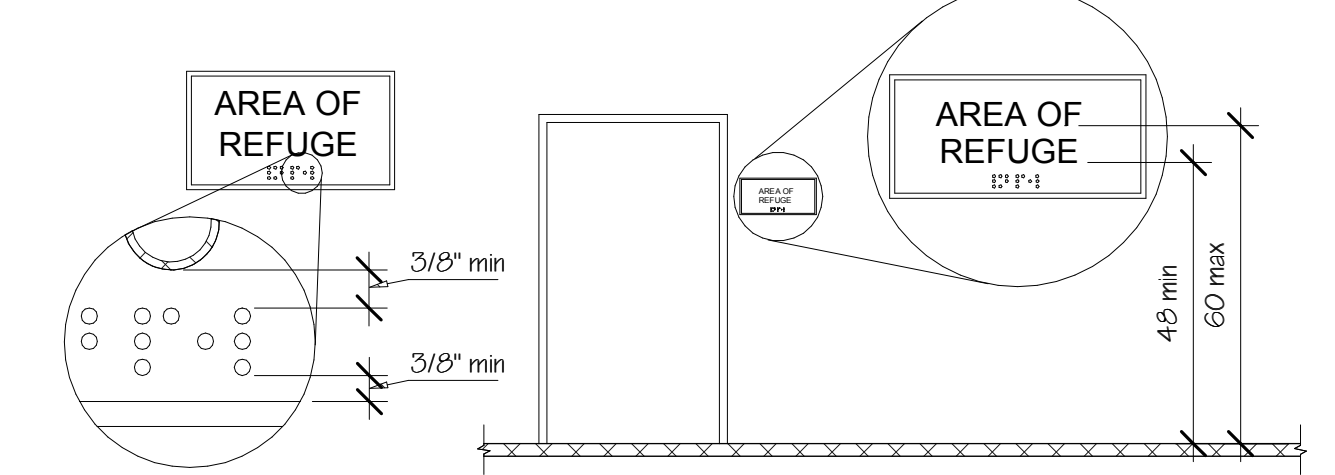


Fig. 703.3.2
Position of Braille

Fig. 703.4.1
Height of Tactile Characters
above Finish Floor or Ground

703.4 INSTALLATION HEIGHT AND LOCATION. SIGNS WITH TACTILE CHARACTERS SHALL COMPLY WITH 703.4.
703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
EXCEPTION: TACTILE CHARACTERS FOR ELEVATOR CAR CONTROLS SHALL NOT BE REQUIRED TO COMPLY WITH 703.4.1.
703.4.2 LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE, WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR, WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.
EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

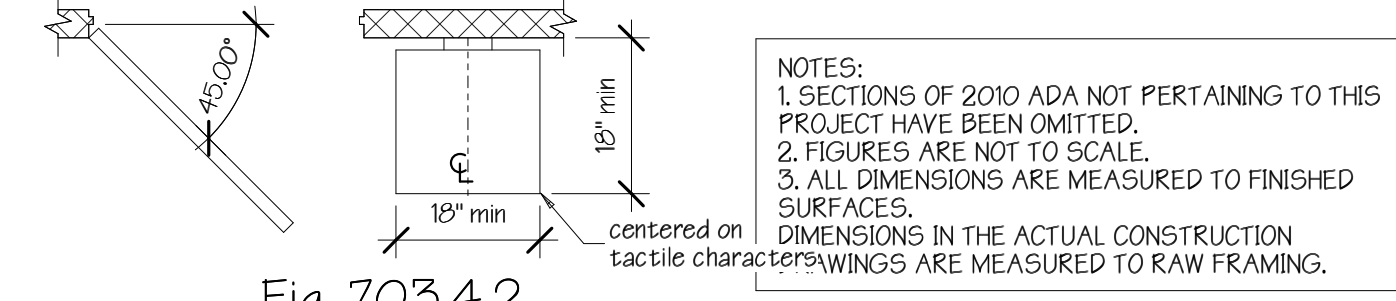


Fig. 703.4.2
Location of Tactile Signs at Doors

703.5 VISUAL CHARACTERS. VISUAL CHARACTERS SHALL COMPLY WITH 703.5.
EXCEPTION: WHERE VISUAL CHARACTERS COMPLY WITH 703.2 AND ARE ACCOMPANIED BY BRAILLE COMPLYING WITH 703.3, THEY SHALL NOT BE REQUIRED TO COMPLY WITH 703.2 THROUGH 703.5.
703.5.1 FINISH AND CONTRAST. PICTOGRAMS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
703.5.2 CASE. CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A COMBINATION OF BOTH.
703.5.3 STYLE. CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
703.5.4 CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "T".
703.5.5 CHARACTER HEIGHT. MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "T".

TABLE 703.5.5 - VISUAL CHARACTER HEIGHT

HEIGHT ABOVE FLOOR TO BASELINE OF CHARACTER	HORIZONTAL VIEWING DISTANCE	MINIMUM CHARACTER HEIGHT
40 INCHES TO LESS THAN OR EQUAL TO 70 INCHES	LESS THAN 72 INCHES	5/8 INCH
GREATER THAN 70 INCHES TO LESS THAN OR EQUAL TO 120 INCHES	72 INCHES AND GREATER	5/8 INCH, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 72 INCHES
	LESS THAN 180 INCHES	2 INCHES
GREATER THAN 120 INCHES	180 INCHES AND GREATER	2 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 180 INCHES
	LESS THAN 21 FEET	3 INCHES
	21 FEET AND GREATER	3 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 21 FEET

703.5.6 HEIGHT FROM FINISH FLOOR OR GROUND. VISUAL CHARACTERS SHALL BE 40 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.
EXCEPTION: VISUAL CHARACTERS INDICATING ELEVATOR CAR CONTROLS SHALL NOT BE REQUIRED TO COMPLY WITH 703.5.6.
703.5.7 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "T" SHALL BE 10 PERCENT MINIMUM AND 30 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
703.5.8 CHARACTER SPACING. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT CHARACTERS, EXCLUDING WORD SPACES. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT.
703.5.9 LINE SPACING. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT.
703.6 PICTOGRAMS. PICTOGRAMS SHALL COMPLY WITH 703.6.
703.6.1 PICTOGRAM FIELD. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.
703.6.2 FINISH AND CONTRAST. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD.
703.6.3 TEXT DESCRIPTORS. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT SHALL COMPLY WITH 703.2, 703.3 AND 703.4.
703.7 SYMBOLS OF ACCESSIBILITY. SYMBOLS OF ACCESSIBILITY SHALL COMPLY WITH 703.7.
703.7.1 FINISH AND CONTRAST. SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND.
703.7.2 SYMBOLS.
703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH FIGURE 703.7.2.1.

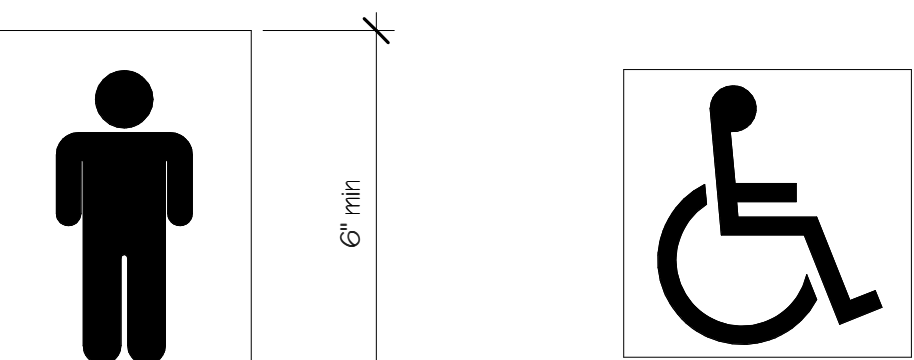


Fig. 703.7.2.1
International Symbol of
Accessibility

Fig. 703.6.1
Pictogram Field

705 DETECTABLE WARNINGS
705.1 GENERAL. DETECTABLE WARNINGS SHALL CONSIST OF A SURFACE OF TRUNCATED DOMES AND SHALL COMPLY WITH 705.
705.1.1 DOME SIZE. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A BASE DIAMETER OF 0.9 INCH MINIMUM AND 1.4 INCHES MAXIMUM, A TOP DIAMETER OF 50 PERCENT OF THE BASE DIAMETER MINIMUM TO 65 PERCENT OF THE BASE DIAMETER MAXIMUM, AND A HEIGHT OF 0.2 INCH.
705.1.2 DOME SPACING. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A CENTER-TO-CENTER SPACING OF 16 INCHES MINIMUM AND 2.4 INCHES MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65 INCH MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID.
705.1.3 CONTRAST. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
705.2 PLATFORM EDGES. DETECTABLE WARNING SURFACES AT PLATFORM BOARDING EDGES SHALL BE 24 INCHES WIDE AND SHALL EXTEND THE FULL LENGTH OF THE PUBLIC USE AREAS OF THE PLATFORM.

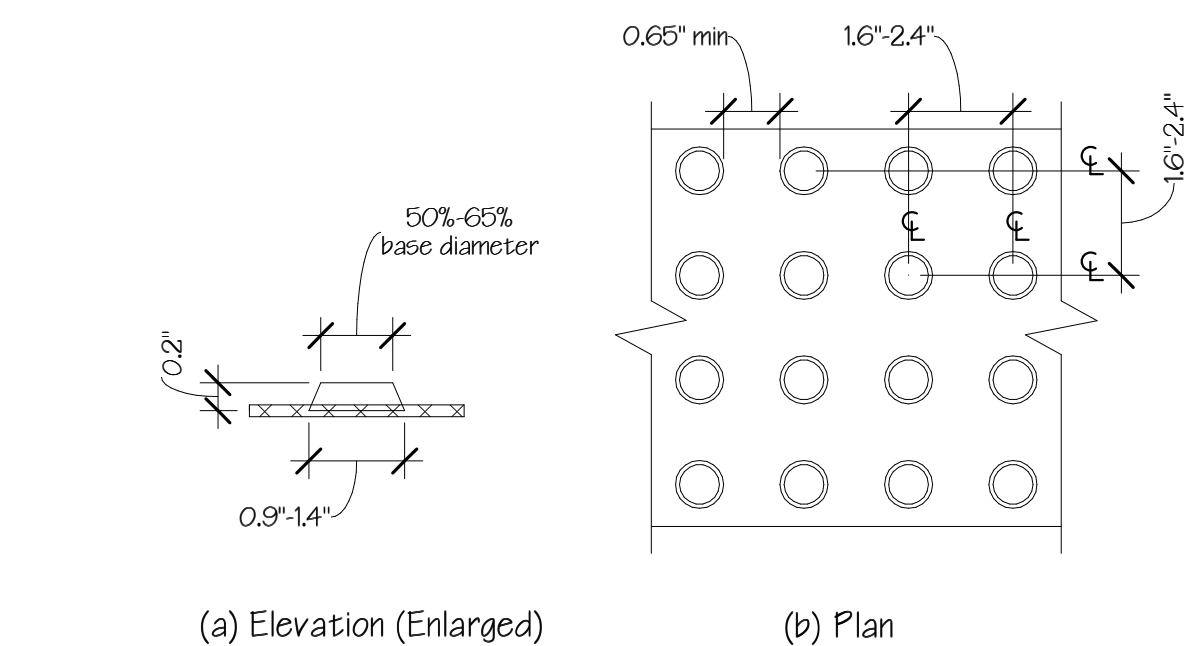


Fig. 705.1
Size and Spacing of Truncated Domes

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2010 ADA STANDARDS FOR ACCESSIBLE DESIGN*

* WITH 11 EXCEPTIONS REMOVED OR MODIFIED TO COMPLY WITH SECTION 504 OF THE REHABILITATION ACT OF 1973 & HUD'S SECTION 504 REGULATION FOR NEW CONSTRUCTION AND ALTERATIONS.

CHAPTER 2: SPECIAL ROOMS, SPACES AND ELEMENTS

801 GENERAL

701.1 SCOPE. THE PROVISIONS OF CHAPTER 8 SHALL APPLY WHERE REQUIRED BY CHAPTER 2 OR WHERE REFERENCED BY A REQUIREMENT IN THIS DOCUMENT.

804 KITCHENS AND KITCHENETTES

804.1 GENERAL. KITCHENS AND KITCHENETTES SHALL COMPLY WITH 804.

804.2 CLEARANCE. WHERE A PASS THROUGH KITCHEN IS PROVIDED, CLEARANCES SHALL COMPLY WITH 804.2.1 WHERE A U-SHAPED KITCHEN IS PROVIDED, CLEARANCES SHALL COMPLY WITH 804.2.2.

EXCEPTION: SPACES THAT DO NOT PROVIDE A COOKTOP OR CONVENTIONAL RANGE SHALL NOT BE REQUIRED TO COMPLY WITH 804.2.

804.2.1 PASS THROUGH KITCHEN. IN PASS THROUGH KITCHENS WHERE COUNTERS, APPLIANCES OR CABINETS ARE ON TWO OPPOSING SIDES, OR WHERE COUNTERS, APPLIANCES OR CABINETS ARE OPPOSITE A PARALLEL WALL, CLEARANCE BETWEEN ALL OPPOSING BASE CABINETS, COUNTER TOPS, APPLIANCES, OR WALLS WITHIN KITCHEN WORK AREAS SHALL BE 40 INCHES MINIMUM. PASS THROUGH KITCHENS SHALL HAVE TWO ENTRIES.

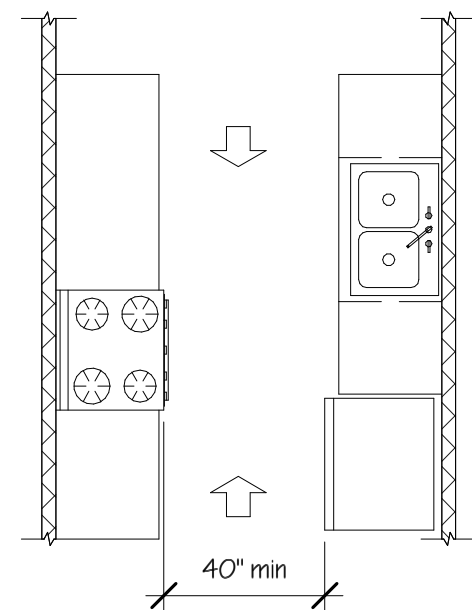


Fig. 804.2.1

Pass-through Kitchens

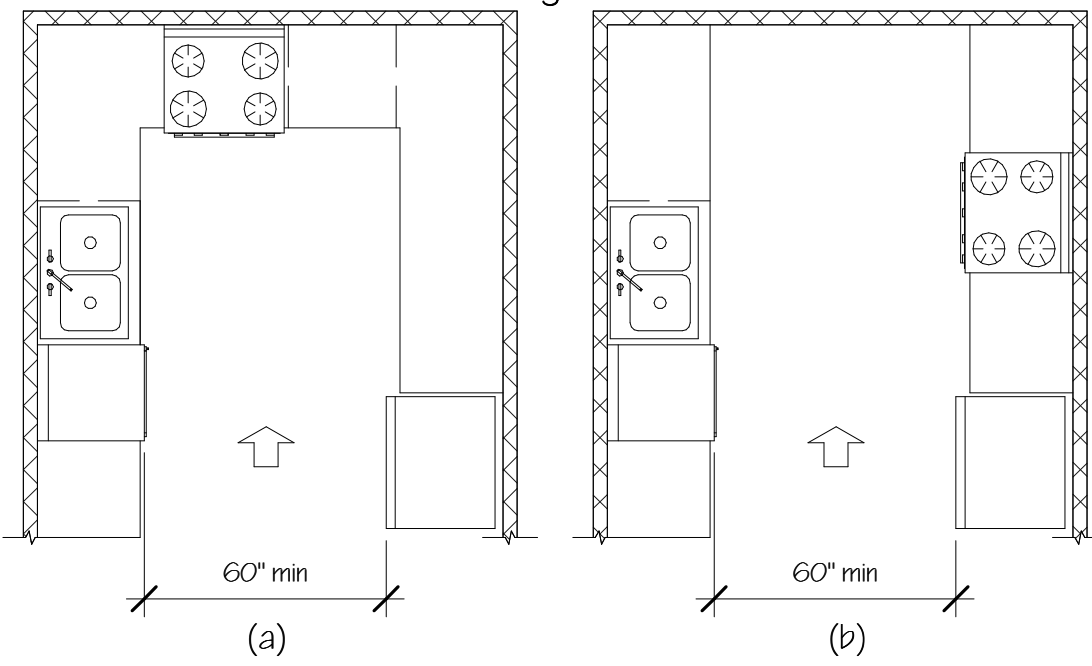


Fig. 804.2.2 U-Shaped Kitchens

804.2.2 U-SHAPED. IN U-SHAPED KITCHENS LOCATED ON THREE CONTIGUOUS SIDES, CLEARANCE BETWEEN ALL OPPOSING BASE CABINETS, COUNTER TOPS, APPLIANCES, OR WALLS WITHIN KITCHEN WORK AREAS SHALL BE 60 INCHES MINIMUM.

804.3 KITCHEN WORK SURFACE. IN RESIDENTIAL DWELLING UNITS REQUIRED TO COMPLY WITH 809, AT LEAST ONE 30 INCHES WIDE MINIMUM SECTION OF COUNTER SHALL PROVIDE A KITCHEN WORK SURFACE THAT COMPLIES WITH 804.3.

804.3.1 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305 POSITIONED FOR A FORWARD APPROACH SHALL BE PROVIDED. THE CLEAR FLOOR OR GROUND SPACE SHALL BE CENTERED ON THE KITCHEN WORK SURFACE AND SHALL PROVIDE KNEE AND TOE CLEARANCE COMPLYING WITH 306.

EXCEPTION: CABINETRY SHALL BE PERMITTED UNDER THE KITCHEN WORK SURFACE PROVIDED THAT ALL OF THE FOLLOWING CONDITIONS ARE MET:

- (A) THE CABINETRY CAN BE REMOVED WITHOUT REMOVAL OR REPLACEMENT OF THE KITCHEN WORK SURFACE;
- (B) THE FINISH FLOOR EXTENDS UNDER THE CABINETRY; AND
- (C) THE WALLS BEHIND AND SURROUNDING THE CABINETRY ARE FINISHED.

804.3.2 HEIGHT. THE KITCHEN WORK SURFACE SHALL BE 34 INCHES (865 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

EXCEPTION: A COUNTER THAT IS ADJUSTABLE TO PROVIDE A KITCHEN WORK SURFACE AT VARIABLE HEIGHTS, 29 INCHES (735 MM) MINIMUM AND 36 INCHES (915 MM) MAXIMUM SHALL BE PERMITTED.

804.3.3 EXPOSED SURFACES. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER THE WORK SURFACE COUNTERS.

804.4 SINKS. SINKS SHALL COMPLY WITH 606.

804.5 STORAGE. AT LEAST 50 PERCENT OF SHELF SPACE IN STORAGE FACILITIES SHALL COMPLY WITH 811.

804.6 APPLIANCES. WHERE PROVIDED, KITCHEN APPLIANCES SHALL COMPLY WITH 804.6.

804.6.1 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE PROVIDED AT EACH KITCHEN APPLIANCE. CLEAR FLOOR OR GROUND SPACES SHALL BE PERMITTED TO OVERLAP.

804.6.2 OPERABLE PARTS. ALL APPLIANCE CONTROLS SHALL COMPLY WITH 309.

EXCEPTIONS:

1. APPLIANCE DOORS AND DOOR LATCHING DEVICES SHALL NOT BE REQUIRED TO COMPLY WITH 309.4.
2. BOTTOM-HINGED APPLIANCE DOORS, WHEN IN THE OPEN POSITION, SHALL NOT BE REQUIRED TO COMPLY WITH 309.3.
- 804.6.3 DISHWASHER. CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED ADJACENT TO THE DISHWASHER DOOR. THE DISHWASHER DOOR, IN THE OPEN POSITION, SHALL NOT OBSTRUCT THE CLEAR FLOOR OR GROUND SPACE FOR THE DISHWASHER OR THE SINK.
- 804.6.4 RANGE OR COOKTOP. WHERE A FORWARD APPROACH IS PROVIDED, THE CLEAR FLOOR OR GROUND SPACE SHALL PROVIDE KNEE AND TOE CLEARANCE COMPLYING WITH 306. WHERE KNEE AND TOE SPACE IS PROVIDED, THE UNDERSIDE OF THE RANGE OR COOKTOP SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PREVENT BURNS, ABRASIONS, OR ELECTRICAL SHOCK. THE LOCATION OF CONTROLS SHALL NOT REQUIRE REACHING ACROSS BURNERS.
- 804.6.5 OVEN. OVENS SHALL COMPLY WITH 804.6.5.
- 804.6.5.1 SIDE-HINGED DOOR OVENS. SIDE-HINGED DOOR OVENS SHALL HAVE THE WORK SURFACE REQUIRED BY 804.3 POSITIONED ADJACENT TO THE LATCH SIDE OF THE OVEN DOOR.
- 804.6.5.2 BOTTOM-HINGED DOOR OVENS. BOTTOM-HINGED DOOR OVENS SHALL HAVE THE WORK SURFACE REQUIRED BY 804.3 POSITIONED ADJACENT TO ONE SIDE OF THE DOOR.
- 804.6.5.3 CONTROLS. OVENS SHALL HAVE CONTROLS ON FRONT PANELS.
- 804.6.6 REFRIGERATOR/FREEZER. COMBINATION REFRIGERATORS AND FREEZERS SHALL HAVE AT LEAST 50 PERCENT OF THE FREEZER SPACE 54 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. THE CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR A PARALLEL APPROACH TO THE SPACE DEDICATED TO A REFRIGERATOR/FREEZER WITH THE CENTERLINE OF THE CLEAR FLOOR OR GROUND SPACE OFFSET 24 INCHES MAXIMUM FROM THE CENTERLINE OF THE DEDICATED SPACE.

809 RESIDENTIAL DWELLING UNITS

809.1 GENERAL. RESIDENTIAL DWELLING UNITS SHALL COMPLY WITH 809. RESIDENTIAL DWELLING UNITS REQUIRED TO PROVIDE MOBILITY FEATURES SHALL COMPLY WITH 809.2 THROUGH 809.4. RESIDENTIAL DWELLING UNITS REQUIRED TO PROVIDE COMMUNICATION FEATURES SHALL COMPLY WITH 809.5.

809.2 ACCESSIBLE ROUTES. ACCESSIBLE ROUTES COMPLYING WITH CHAPTER 4 SHALL BE PROVIDED WITHIN RESIDENTIAL DWELLING UNITS IN ACCORDANCE WITH 809.2.

EXCEPTION: ACCESSIBLE ROUTES SHALL NOT BE REQUIRED TO OR WITHIN UNFINISHED ATTICS OR UNFINISHED BASEMENTS.

809.2.1 LOCATION. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ALL SPACES AND ELEMENTS WHICH ARE A PART OF THE RESIDENTIAL DWELLING UNIT. WHERE ONLY ONE ACCESSIBLE ROUTE IS PROVIDED, IT SHALL NOT PASS THROUGH BATHROOMS, CLOSETS, OR SIMILAR SPACES.

809.2.2 TURNING SPACE. ALL ROOMS SERVED BY AN ACCESSIBLE ROUTE SHALL PROVIDE A TURNING SPACE COMPLYING WITH 304.

EXCEPTION: TURNING SPACE SHALL NOT BE REQUIRED IN EXTERIOR SPACES 30 INCHES MAXIMUM IN DEPTH OR WIDTH.

809.3 KITCHEN. WHERE A KITCHEN IS PROVIDED, IT SHALL COMPLY WITH 804.

809.4 TOILET FACILITIES AND BATHING FACILITIES. AT LEAST ONE TOILET FACILITY AND BATHING FACILITY SHALL COMPLY WITH 603 THROUGH 610. AT LEAST ONE OF EACH TYPE OF FIXTURE PROVIDED SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF 603 THROUGH 610. TOILET AND BATHING FIXTURES REQUIRED TO COMPLY WITH 603 THROUGH 610 SHALL BE LOCATED IN THE SAME TOILET AND BATHING AREA, SUCH THAT TRAVEL BETWEEN FIXTURES DOES NOT REQUIRE TRAVEL BETWEEN OTHER PARTS OF THE RESIDENTIAL DWELLING UNIT.

809.5 RESIDENTIAL DWELLING UNITS WITH COMMUNICATION FEATURES. RESIDENTIAL DWELLING UNITS REQUIRED TO PROVIDE COMMUNICATION FEATURES SHALL COMPLY WITH 809.5.

809.5.1 BUILDING FIRE ALARM SYSTEM. WHERE A BUILDING FIRE ALARM SYSTEM IS PROVIDED, THE SYSTEM WIRING SHALL BE EXTENDED TO A POINT WITHIN THE RESIDENTIAL DWELLING UNIT IN THE VICINITY OF THE RESIDENTIAL DWELLING UNIT SMOKE DETECTION SYSTEM.

809.5.1.1 ALARM APPLIANCES. WHERE ALARM APPLIANCES ARE PROVIDED WITHIN A RESIDENTIAL DWELLING UNIT AS PART OF THE BUILDING FIRE ALARM SYSTEM, THEY SHALL COMPLY WITH 702.

809.5.1.2 ACTIVATION. ALL VISIBLE ALARM APPLIANCES PROVIDED WITHIN THE RESIDENTIAL DWELLING UNIT FOR BUILDING FIRE ALARM NOTIFICATION SHALL BE ACTIVATED UPON ACTIVATION OF THE BUILDING FIRE ALARM IN THE PORTION OF THE BUILDING CONTAINING THE RESIDENTIAL DWELLING UNIT.

809.5.2 RESIDENTIAL DWELLING UNIT SMOKE DETECTION SYSTEM. RESIDENTIAL DWELLING UNIT SMOKE DETECTION SYSTEMS SHALL COMPLY WITH NFPA 72 (1999 OR 2002 EDITION) (INCORPORATED BY REFERENCE. SEE "REFERENCED STANDARDS" IN CHAPTER 1).

809.5.2.2 ACTIVATION. ALL VISIBLE ALARM APPLIANCES PROVIDED WITHIN THE RESIDENTIAL DWELLING UNIT FOR SMOKE DETECTION NOTIFICATION SHALL BE ACTIVATED UPON SMOKE DETECTION.

809.5.3 INTERCONNECTION. THE SAME VISIBLE ALARM APPLIANCES SHALL BE PERMITTED TO PROVIDE NOTIFICATION OF RESIDENTIAL DWELLING UNIT SMOKE DETECTION AND BUILDING FIRE ALARM ACTIVATION.

809.5.5 RESIDENTIAL DWELLING UNIT PRIMARY ENTRANCE. COMMUNICATION FEATURES SHALL BE PROVIDED AT THE RESIDENTIAL DWELLING UNIT PRIMARY ENTRANCE COMPLYING WITH 809.5.5.

809.5.5.1 NOTIFICATION. A HARD-WIRED ELECTRIC DOORBELL SHALL BE PROVIDED. A BUTTON OR SWITCH SHALL BE PROVIDED OUTSIDE THE RESIDENTIAL DWELLING UNIT PRIMARY ENTRANCE. ACTIVATION OF THE BUTTON OR SWITCH SHALL INITIATE AN AUDIBLE TONE AND VISIBLE SIGNAL WITHIN THE RESIDENTIAL DWELLING UNIT. WHERE VISIBLE DOORBELL SIGNALS ARE LOCATED IN SLEEPING AREAS, THEY SHALL HAVE CONTROLS TO DEACTIVATE THE SIGNAL.

809.5.5.2 IDENTIFICATION. A MEANS FOR VISUALLY IDENTIFYING A VISITOR WITHOUT OPENING THE RESIDENTIAL DWELLING UNIT ENTRY DOOR SHALL BE PROVIDED AND SHALL ALLOW FOR A MINIMUM 180 DEGREE RANGE OF VIEW.

809.5.6 SITE, BUILDING, OR FLOOR ENTRANCE. WHERE A SYSTEM, INCLUDING A CLOSED-CIRCUIT SYSTEM, PERMITTING VOICE COMMUNICATION BETWEEN A VISITOR AND THE OCCUPANT OF THE RESIDENTIAL DWELLING UNIT IS PROVIDED, THE SYSTEM SHALL COMPLY WITH 708.4.

CHAPTER 9: BUILT-IN ELEMENTS

901 GENERAL

901.1 SCOPE. THE PROVISIONS OF CHAPTER 9 SHALL APPLY WHERE REQUIRED BY CHAPTER 2 OR WHERE REFERENCED BY A REQUIREMENT IN THIS DOCUMENT.

902 DINING SURFACES AND WORK SURFACES

902.1 GENERAL. DINING SURFACES AND WORK SURFACES SHALL COMPLY WITH 902.2 AND 902.3.

EXCEPTION: DINING SURFACES AND WORK SURFACES FOR CHILDREN'S USE SHALL BE PERMITTED TO COMPLY WITH 902.4.

902.2 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305 POSITIONED FOR A FORWARD APPROACH SHALL BE PROVIDED. KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED.

902.3 HEIGHT. THE TOPS OF DINING SURFACES AND WORK SURFACES SHALL BE 28 INCHES MINIMUM AND 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

902.4 DINING SURFACES AND WORK SURFACES FOR CHILDREN'S USE. ACCESSIBLE DINING SURFACES AND WORK SURFACES FOR CHILDREN'S USE SHALL COMPLY WITH 902.4.

EXCEPTION: DINING SURFACES AND WORK SURFACES THAT ARE USED PRIMARILY BY CHILDREN 5 YEARS AND YOUNGER SHALL NOT BE REQUIRED TO COMPLY WITH 902.4 WHERE A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 POSITIONED FOR A PARALLEL APPROACH IS PROVIDED.

902.4.1 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305 POSITIONED FOR FORWARD APPROACH SHALL BE PROVIDED. KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED, EXCEPT THAT KNEE CLEARANCE 24 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SHALL BE PERMITTED.

902.4.2 HEIGHT. THE TOPS OF TABLES AND COUNTERS SHALL BE 26 INCHES MINIMUM AND 30 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

903 BENCHES

903.1 SCOPE. ACCESSIBLE BENCHES SHALL COMPLY WITH SECTION 903.

903.2 CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305, POSITIONED FOR PARALLEL APPROACH TO AN END OF THE BENCH SEAT, SHALL BE PROVIDED.

903.3 SIZE. BENCHES SHALL HAVE SEATS 42 INCHES MINIMUM IN LENGTH, AND 20 INCHES MINIMUM AND 24 INCHES MAXIMUM IN DEPTH.

903.4 BACK SUPPORT. THE BENCH SHALL PROVIDE FOR BACK SUPPORT OR SHALL BE AFFIXED TO A WALL. BACK SUPPORT SHALL BE 42 INCHES MINIMUM IN LENGTH AND SHALL EXTEND FROM A POINT 2 INCHES MAXIMUM ABOVE THE SEAT SURFACE TO A POINT 18 INCHES MINIMUM ABOVE THE SEAT SURFACE. BACK SUPPORT SHALL BE 2 1/2 INCHES MAXIMUM FROM THE REAR EDGE OF THE SEAT MEASURED HORIZONTALLY.

903.5 HEIGHT. THE TOP OF THE BENCH SEAT SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE FLOOR, MEASURED TO THE TOP OF THE SEAT.

903.6 STRUCTURAL STRENGTH. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHERE A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE SEAT, FASTENER MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

903.7 WET LOCATIONS. WHERE PROVIDED IN WET LOCATIONS THE SURFACE OF THE SEAT SHALL BE SLIP RESISTANT AND SHALL NOT ACCUMULATE WATER.

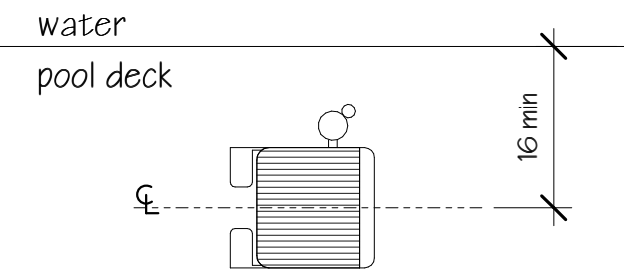


Fig. 1009.2.2
Pool Lift Seat
Location

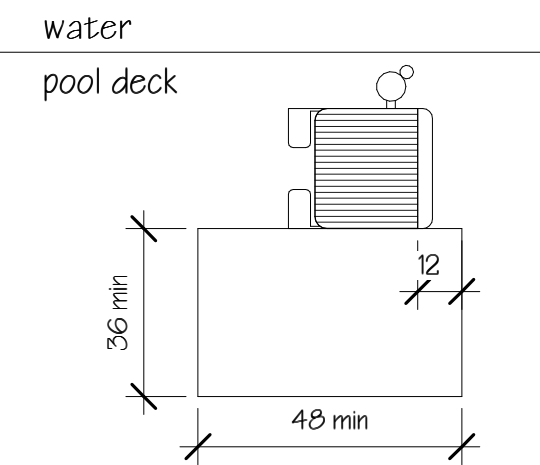


Fig. 1009.2.3

Clear Deck Space at Pool Lifts

1009.2.4 SEAT HEIGHT. THE HEIGHT OF THE LIFT SEAT SHALL BE DESIGNED TO ALLOW A STOP AT 16 INCHES MINIMUM TO 19 INCHES MAXIMUM MEASURED FROM THE DECK TO THE TOP OF THE SEAT SURFACE WHEN IN THE RAISED (LOAD) POSITION.

1009.2.5 SEAT WIDTH. THE SEAT SHALL BE 16 INCHES WIDE MINIMUM.

1009.2.6 FOOTRESTS AND ARMRESTS. FOOTRESTS SHALL BE PROVIDED AND SHALL MOVE WITH THE SEAT. IF PROVIDED, THE ARMREST POSITIONED OPPOSITE THE WATER SHALL BE REMOVABLE OR SHALL FOLD CLEAR OF THE SEAT WHEN THE SEAT IS IN THE RAISED (LOAD) POSITION.

EXCEPTION: FOOTRESTS SHALL NOT BE REQUIRED ON POOL LIFTS PROVIDED IN SPAS.

1009.2.7 OPERATION. THE LIFT SHALL BE CAPABLE OF UNASSISTED OPERATION FROM BOTH THE DECK AND WATER LEVELS. CONTROLS AND OPERATING MECHANISMS SHALL BE UNOBSERVED WHEN THE LIFT IS IN USE AND SHALL COMPLY WITH 309.4.

1009.2.8 SUBMERGED DEPTH. THE LIFT SHALL BE DESIGNED SO THAT THE SEAT WILL SUBMERGE TO A WATER DEPTH OF 18 INCHES MINIMUM BELOW THE STATIONARY WATER LEVEL.

1009.2.9 LIFTING CAPACITY. SINGLE PERSON POOL LIFTS SHALL HAVE A WEIGHT CAPACITY OF 300 POUNDS MINIMUM AND BE CAPABLE OF SUSTAINING A STATIC LOAD OF AT LEAST ONE AND A HALF TIMES THE RATED LOAD.

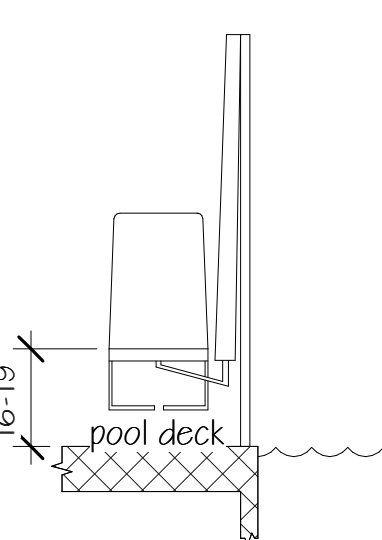


Fig. 1009.2.4
Pool Lift Seat Height

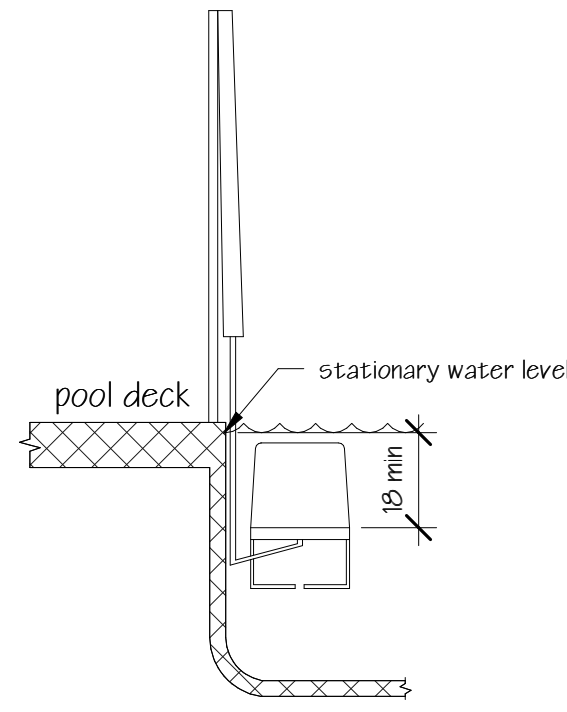


Fig. 1009.2.8

Pool Lift: Submerged Depth

1009.3 SLOPED ENTRIES. SLOPED ENTRIES SHALL COMPLY WITH CHAPTER 4

EXCEPT AS MODIFIED IN 1009.3.1 THROUGH 1009.3.3.

EXCEPTION: WHERE SLOPED ENTRIES ARE PROVIDED, THE SURFACES SHALL NOT BE REQUIRED TO BE SLIP RESISTANT.

1009.3.2 SUBMERGED DEPTH. SLOPED ENTRIES SHALL EXTEND TO A DEPTH OF 24 INCHES MINIMUM AND 30 INCHES MAXIMUM BELOW THE STATIONARY WATER LEVEL. WHERE LANDINGS ARE REQUIRED BY 405.7, AT LEAST ONE LANDING SHALL BE LOCATED 24 INCHES MINIMUM AND 30 INCHES MAXIMUM BELOW THE STATIONARY WATER LEVEL.

EXCEPTION: IN WADING POOLS, THE SLOPED ENTRY AND LANDINGS, IF PROVIDED, SHALL EXTEND TO THE DEEPEST PART OF THE WADING POOL.

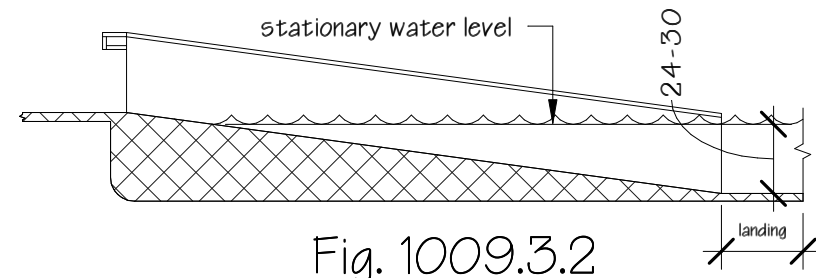


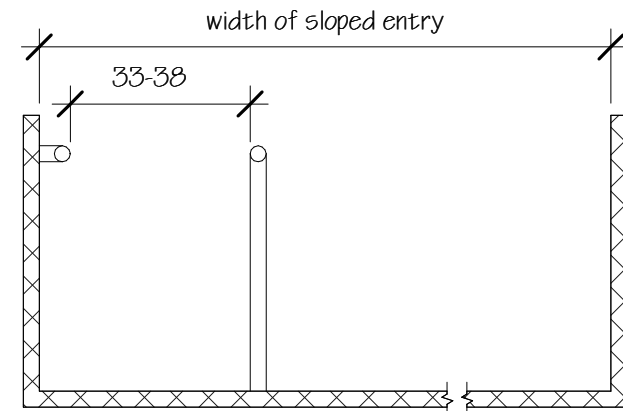
Fig. 1009.3.2

Sloped Entry Submerged Depth

1009.3.3 HANDRAILS. AT LEAST TWO HANDRAILS COMPLYING WITH 505 SHALL BE PROVIDED ON THE SLOPED ENTRY. THE CLEAR WIDTH BETWEEN REQUIRED HANDRAILS SHALL BE 33 INCHES MINIMUM AND 38 INCHES MAXIMUM.

EXCEPTIONS:

1. HANDRAIL EXTENSIONS SPECIFIED BY 505.10.1 SHALL NOT BE REQUIRED AT THE BOTTOM LANDING SERVING A SLOPED ENTRY.
2. WHERE A SLOPED ENTRY IS PROVIDED FOR WAVE ACTION POOLS, LEISURE RIVERS, SAND BOTTOM POOLS, AND OTHER POOLS WHERE USER ACCESS IS LIMITED TO ONE AREA, THE HANDRAILS SHALL NOT BE REQUIRED TO COMPLY WITH THE CLEAR WIDTH REQUIREMENTS OF 1009.3.3.
3. SLOPED ENTRIES IN WADING POOLS SHALL NOT BE REQUIRED TO PROVIDE HANDRAILS COMPLYING WITH 1009.3.3. IF PROVIDED, HANDRAILS ON SLOPED ENTRIES IN WADING POOLS SHALL NOT BE REQUIRED TO COMPLY WITH 505.



OFig. 1109.3.3

Handrails for Sloped Entries

1009.4 TRANSFER WALLS. TRANSFER WALLS SHALL COMPLY WITH 1009.4.

1009.4.1 CLEAR DECK SPACE. A CLEAR DECK SPACE OF 60 INCHES MINIMUM BY 60 INCHES MINIMUM WITH A SLOPE NOT STEEPER THAN 1:48 SHALL BE PROVIDED AT THE BASE OF THE TRANSFER WALL. WHERE ONE GRAB BAR IS PROVIDED, THE CLEAR DECK SPACE SHALL BE CENTERED ON THE GRAB BAR. WHERE TWO GRAB BARS ARE PROVIDED, THE CLEAR DECK SPACE SHALL BE CENTERED ON THE CLEARANCE BETWEEN THE GRAB BARS.

1009.4.2 HEIGHT. THE HEIGHT OF THE TRANSFER WALL SHALL BE 16 INCHES MINIMUM AND 19 INCHES MAXIMUM MEASURED FROM THE DECK.

1009.4.3 WALL DEPTH AND LENGTH. THE DEPTH OF THE TRANSFER WALL SHALL BE 12 INCHES MINIMUM AND 16 INCHES MAXIMUM. THE LENGTH OF THE TRANSFER WALL SHALL BE 60 INCHES MINIMUM AND SHALL BE CENTERED ON THE CLEAR DECK SPACE.

NOTES:

1. SECTIONS OF 2010 ADA NOT PERTAINING TO THIS PROJECT HAVE BEEN OMITTED.
2. FIGURES ARE NOT TO SCALE.
3. ALL DIMENSIONS ARE MEASURED TO FINISHED SURFACES.

1009.4.4 SURFACE. SURFACES OF TRANSFER WALLS SHALL NOT BE SHARP AND SHALL HAVE ROUNDED EDGES.

1009.4.5 GRAB BARS. AT LEAST ONE GRAB BAR COMPLYING WITH 609 SHALL BE PROVIDED ON THE TRANSFER WALL. GRAB BARS SHALL BE PERPENDICULAR TO THE POOL WALL AND SHALL EXTEND THE FULL DEPTH OF THE TRANSFER WALL. THE TOP OF THE GRIPPING SURFACE SHALL BE 4 INCHES MINIMUM AND 6 INCHES MAXIMUM ABOVE TRANSFER WALLS. WHERE ONE GRAB BAR IS PROVIDED, CLEARANCE SHALL BE 24 INCHES MINIMUM ON BOTH SIDES OF THE GRAB BAR. WHERE TWO GRAB BARS ARE PROVIDED, CLEARANCE BETWEEN GRAB BARS SHALL BE 24 INCHES MINIMUM. EXCEPTION: GRAB BARS ON TRANSFER WALLS SHALL NOT BE REQUIRED TO COMPLY WITH 609.4.

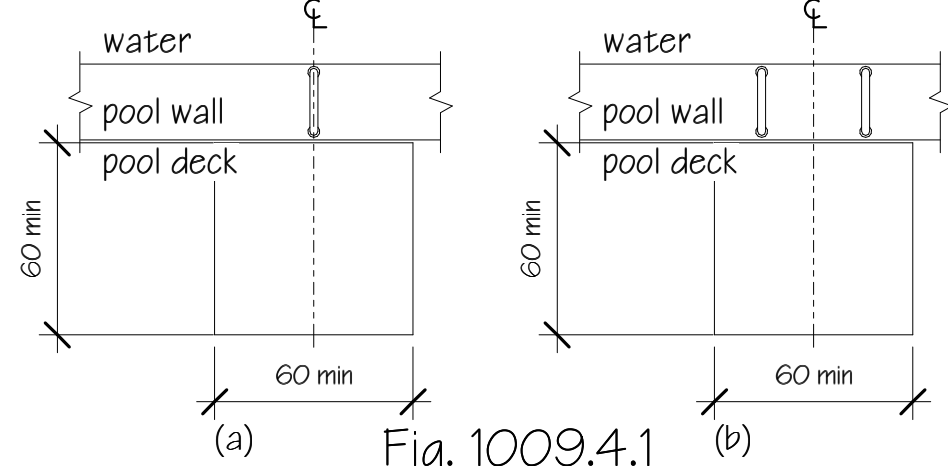
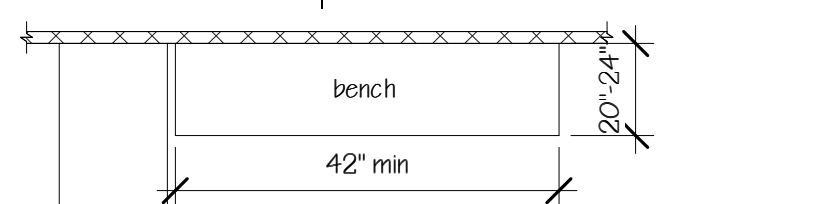
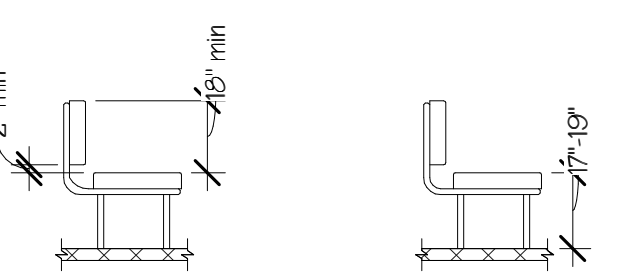


Fig. 1009.4.1

Clear Deck Space at Transfer Walls



(a) Clear Floor Space and Size



(b) Bench Back and Support

Fig. 903

Benches

904 CHECK-OUT AISLES AND SALES AND SERVICE COUNTERS

904.1 GENERAL. CHECK-OUT AISLES AND SALES AND SERVICE COUNTERS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF 904.

904.2 APPROACH. ALL PORTIONS OF COUNTERS REQUIRED TO COMPLY WITH 904 SHALL BE LOCATED ADJACENT TO A WALKING SURFACE COMPLYING WITH 403.

904.3 CHECK-OUT AISLES. CHECK-OUT AISLES SHALL COMPLY WITH 904.3.

904.3.1 AISLE. AISLES SHALL COMPLY WITH 403.

904.3.2 COUNTER. THE COUNTER SURFACE HEIGHT SHALL BE 38 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. THE TOP OF THE COUNTER EDGE PROTECTION SHALL BE 2 INCHES MAXIMUM ABOVE THE TOP OF THE COUNTER SURFACE ON THE AISLE SIDE OF THE CHECK-OUT COUNTER.

904.3.3 CHECK WRITING SURFACES. WHERE PROVIDED, CHECK WRITING SURFACES SHALL COMPLY WITH 902.3.

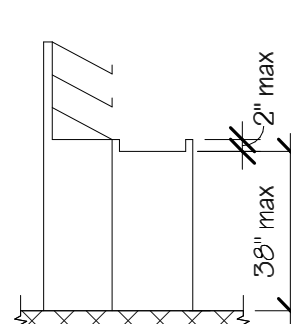


Fig. 904.3.2
Check-Out Aisle
Counters

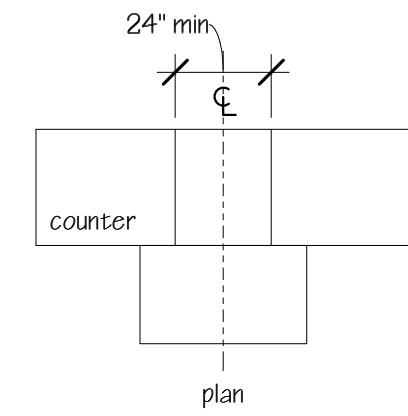


Fig. 904.4(Exception)
Alteration of Sales and
Service Counters

904.4 SALES AND SERVICE COUNTERS. SALES COUNTERS AND SERVICE COUNTERS SHALL COMPLY WITH 904.4.1 OR 904.4.2. THE ACCESSIBLE PORTION OF THE COUNTER TOP SHALL EXTEND THE SAME DEPTH AS THE SALES OR SERVICE COUNTER TOP.

EXCEPTION: IN ALTERATIONS, WHEN THE PROVISION OF A COUNTER COMPLYING WITH 904.4 WOULD RESULT IN A REDUCTION OF THE NUMBER OF EXISTING COUNTERS AT WORK STATIONS OR A REDUCTION OF THE NUMBER OF EXISTING MAIL BOXES, THE COUNTER SHALL BE PERMITTED TO HAVE A PORTION WHICH IS 24 INCHES LONG MINIMUM COMPLYING WITH 904.4.1 PROVIDED THAT THE REQUIRED CLEAR FLOOR OR GROUND SPACE IS CENTERED ON THE ACCESSIBLE LENGTH OF THE COUNTER.

904.4.1 PARALLEL APPROACH. A PORTION OF THE COUNTER SURFACE THAT IS 36 INCHES LONG MINIMUM AND 36 INCHES HIGH MAXIMUM ABOVE THE FINISH FLOOR SHALL BE PROVIDED. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE POSITIONED FOR A PARALLEL APPROACH ADJACENT TO THE 36 INCH MINIMUM LENGTH OF COUNTER.

EXCEPTION: WHERE THE PROVIDED COUNTER SURFACE IS LESS THAN 36 INCHES LONG, THE ENTIRE COUNTER SURFACE SHALL BE 36 INCHES HIGH MAXIMUM ABOVE THE FINISH FLOOR.

904.4.2 FORWARD APPROACH. A PORTION OF THE COUNTER SURFACE THAT IS 30 INCHES LONG MINIMUM AND 36 INCHES HIGH MAXIMUM SHALL BE PROVIDED. KNEE AND TOE SPACE COMPLYING WITH 306 SHALL BE PROVIDED UNDER THE COUNTER. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE POSITIONED FOR A FORWARD APPROACH TO THE COUNTER.

904.5 FOOD SERVICE LINES. COUNTERS IN FOOD SERVICE LINES SHALL COMPLY WITH 904.5.

904.5.1 SELF-SERVICE SHELVES AND DISPENSING DEVICES. SELF-SERVICE SHELVES AND DISPENSING DEVICES FOR TABLEWARE, DISHWARE, CONDIMENT'S, FOOD AND BEVERAGES SHALL COMPLY WITH 308.

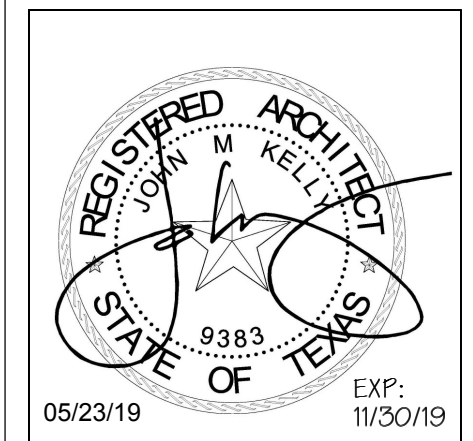
904.5.2 TRAY SLIDES. THE TOPS OF TRAY SLIDES SHALL BE 28 INCHES MINIMUM AND 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

CHAPTER 10: RECREATION FACILITIES

1001 GENERAL

1001.1 SCOPE. THE PROVISIONS OF CHAPTER 10 SHALL APPLY WHERE REQUIRED BY CHAPTER 2 OR WHERE REFERENCED BY A REQUIREMENT IN THIS DOCUMENT.

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MOONLIGHT GARDEN

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No.	Revision	Date
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1004 EXERCISE MACHINES AND EQUIPMENT
1004.1 CLEAR FLOOR SPACE. EXERCISE MACHINES AND EQUIPMENT SHALL HAVE A CLEAR FLOOR SPACE COMPLYING WITH 305 POSITIONED FOR TRANSFER OR FOR USE BY AN INDIVIDUAL SEATED IN A WHEELCHAIR. CLEAR FLOOR OR GROUND SPACES REQUIRED AT EXERCISE MACHINES AND EQUIPMENT SHALL BE PERMITTED TO OVERLAP.

1009 SWIMMING POOLS, WADING POOLS, AND SPAS
1009.1 GENERAL. WHERE PROVIDED, POOL LIFTS, SLOPED ENTRIES, TRANSFER WALLS, TRANSFER SYSTEMS, AND POOL STAIRS SHALL COMPLY WITH 1009.
1009.2 POOL LIFTS. POOL LIFTS SHALL COMPLY WITH 1009.2.
1009.2.1 POOL LIFT LOCATION. POOL LIFTS SHALL BE LOCATED WHERE THE WATER LEVEL DOES NOT EXCEED 48 INCHES.
EXCEPTIONS:
1. WHERE THE ENTIRE POOL DEPTH IS GREATER THAN 48 INCHES, COMPLIANCE WITH 1009.2.1 SHALL NOT BE REQUIRED.
2. WHERE MULTIPLE POOL LIFT LOCATIONS ARE PROVIDED, NO MORE THAN ONE POOL LIFT SHALL BE REQUIRED TO BE LOCATED IN AN AREA WHERE THE WATER LEVEL IS 48 INCHES MAXIMUM.
1009.2.2 SEAT LOCATION. IN THE RAISED POSITION, THE CENTERLINE OF THE SEAT SHALL BE LOCATED OVER THE DECK AND 16 INCHES MINIMUM FROM THE EDGE OF THE POOL. THE DECK SURFACE BETWEEN THE CENTERLINE OF THE SEAT AND THE POOL EDGE SHALL HAVE A SLOPE NOT STEEPER THAN 1:4.8.
1009.2.3 CLEAR DECK SPACE. ON THE SIDE OF THE SEAT OPPOSITE THE WATER, A CLEAR DECK SPACE SHALL BE PROVIDED PARALLEL WITH THE SEAT. THE SPACE SHALL BE 36 INCHES WIDE MINIMUM AND SHALL EXTEND FORWARD 48 INCHES MINIMUM FROM A LINE LOCATED 12 INCHES BEHIND THE REAR EDGE OF THE SEAT. THE CLEAR DECK SPACE SHALL HAVE A SLOPE NOT STEEPER THAN 1:4.8.

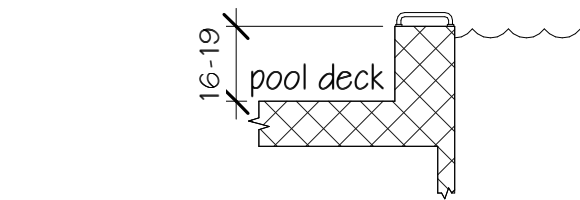


Fig. 1009.4.2
Transfer Wall
Height

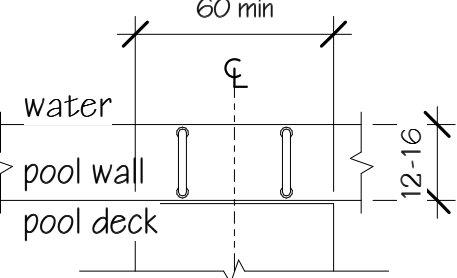
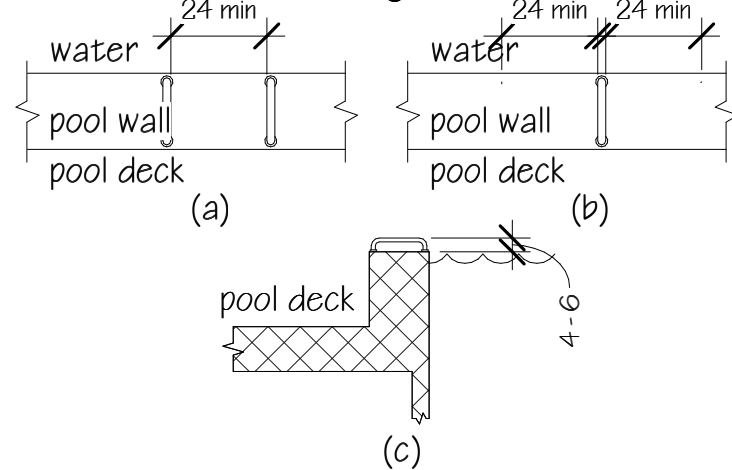


Fig. 1009.4.3
Depth and Length of
Transfer Walls

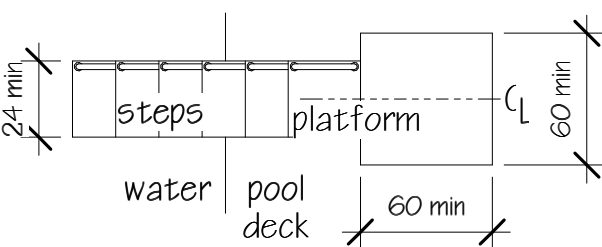


Fig. 1009.5.2
Clear Deck Space at
Transfer Platform

Fig. 1009.4.5
Grab Bars for Transfer
Walls

1009.5 TRANSFER SYSTEMS. TRANSFER SYSTEMS SHALL COMPLY WITH 1009.5.
1009.5.1 TRANSFER PLATFORM. A TRANSFER PLATFORM SHALL BE PROVIDED AT THE HEAD OF EACH TRANSFER SYSTEM. TRANSFER PLATFORMS SHALL PROVIDE 19 INCHES MINIMUM CLEAR DEPTH AND 24 INCHES MINIMUM CLEAR WIDTH.
EXCEPTION: WHERE VISUAL CHARACTERS COMPLY WITH 703.2 AND ARE ACCOMPANIED BY BRAILLE COMPLYING WITH 703.3, THEY SHALL NOT BE REQUIRED TO COMPLY WITH 703.5.2 THROUGH 703.5.9.
1009.5.2 TRANSFER SPACE. A TRANSFER SPACE OF 60 INCHES MINIMUM BY 60 INCHES MINIMUM WITH A SLOPE NOT STEEPER THAN 1:4.8 SHALL BE PROVIDED AT THE BASE OF THE TRANSFER PLATFORM SURFACE AND SHALL BE CENTERED ALONG A 24 INCH MINIMUM SIDE OF THE TRANSFER PLATFORM. THE SIDE OF THE TRANSFER PLATFORM SERVING THE TRANSFER SPACE SHALL BE UNOBSTRUCTED.

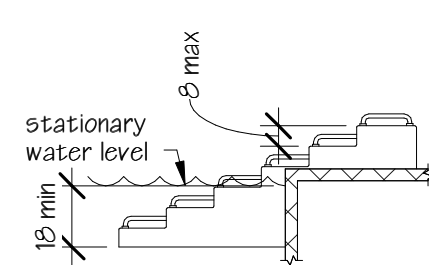


Fig. 1009.5.4
Transfer Steps

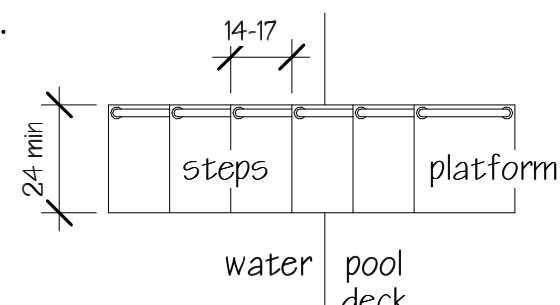


Fig. 1009.5.6
Size of Transfer
Steps

1009.5.3 HEIGHT. THE HEIGHT OF THE TRANSFER PLATFORM SHALL COMPLY WITH 1009.4.2.
1009.5.4 TRANSFER STEPS. TRANSFER STEP HEIGHT SHALL BE 8 INCHES MAXIMUM. THE SURFACE OF THE BOTTOM TREAD SHALL EXTEND TO A WATER DEPTH OF 18 INCHES MINIMUM BELOW THE STATIONARY WATER LEVEL.
1009.5.5 SURFACE. THE SURFACE OF THE TRANSFER SYSTEM SHALL NOT BE SHARP AND SHALL HAVE ROUNDED EDGES.
1009.5.6 SIZE. EACH TRANSFER STEP SHALL HAVE A TREAD CLEAR DEPTH OF 14 INCHES MINIMUM AND 17 INCHES MAXIMUM AND SHALL HAVE A TREAD CLEAR WIDTH OF 24 INCHES MINIMUM.
1009.5.7 GRAB BARS. AT LEAST ONE GRAB BAR ON EACH TRANSFER STEP AND THE TRANSFER PLATFORM OR A CONTINUOUS GRAB BAR SERVING EACH TRANSFER STEP AND THE TRANSFER PLATFORM SHALL BE PROVIDED. WHERE A GRAB BAR IS PROVIDED ON EACH STEP, THE TOPS OF GRIPPING SURFACES SHALL BE 4 INCHES MINIMUM AND 6 INCHES MAXIMUM ABOVE EACH STEP AND TRANSFER PLATFORM. WHERE A CONTINUOUS GRAB BAR IS PROVIDED, THE TOP OF THE GRIPPING SURFACE SHALL BE 4 INCHES MINIMUM AND 6 INCHES MAXIMUM ABOVE THE STEP NOSING AND TRANSFER PLATFORM. GRAB BARS SHALL COMPLY WITH 609 AND BE LOCATED ON AT LEAST ONE SIDE OF THE TRANSFER SYSTEM. THE GRAB BAR LOCATED AT THE TRANSFER PLATFORM SHALL NOT OBSTRUCT TRANSFER.
EXCEPTION: GRAB BARS ON TRANSFER SYSTEMS SHALL NOT BE REQUIRED TO COMPLY WITH 609.4.

1009.6 POOL STAIRS. POOL STAIRS SHALL COMPLY WITH 1009.6.
1009.6.1 POOL STAIRS. POOL STAIRS SHALL COMPLY WITH 504.
EXCEPTION: POOL STEP RISER HEIGHTS SHALL NOT BE REQUIRED TO BE 4 INCHES HIGH MINIMUM AND 7 INCHES HIGH MAXIMUM PROVIDED THAT RISER HEIGHTS ARE UNIFORM.
1009.6.2 HANDRAILS. THE WIDTH BETWEEN HANDRAILS SHALL BE 20 INCHES MINIMUM AND 24 INCHES MAXIMUM. HANDRAIL EXTENSIONS REQUIRED BY 505.10.3 SHALL NOT BE REQUIRED ON POOL STAIRS.

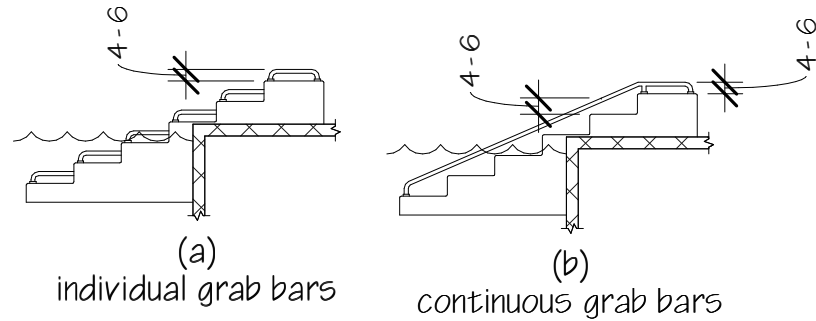
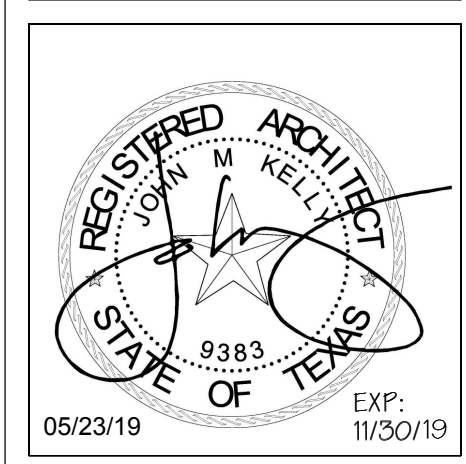


Fig. 1009.5.7
Grab Bars

DRAWN BY:	DPF, MAR
CHECKED BY:	JMK
PROJECT #:	18-2325



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2012 TAS - TEXAS ACCESSIBILITY STANDARDS

CHAPTER 1: APPLICATION AND ADMINISTRATION

101 PURPOSE

101.1 GENERAL THIS DOCUMENT CONTAINS SCOPING AND TECHNICAL REQUIREMENTS FOR ACCESSIBILITY TO SITES, FACILITIES, BUILDINGS, AND ELEMENTS BY INDIVIDUALS WITH DISABILITIES.

CHAPTER 2: SCOPING REQUIREMENTS

201 APPLICATION

201.1 SCOPE, ALL AREAS OF NEWLY DESIGNED AND NEWLY CONSTRUCTED BUILDINGS AND FACILITIES AND ALTERED PORTIONS OF EXISTING BUILDINGS AND FACILITIES SHALL COMPLY WITH THESE REQUIREMENTS.

EXCEPTION: COMMERCIAL FACILITIES AND PUBLIC ACCOMMODATIONS LOCATED IN PRIVATE RESIDENCES, WHEN A COMMERCIAL FACILITY OR PUBLIC ACCOMMODATION IS LOCATED IN A PRIVATE RESIDENCE, THE PORTION OF THE RESIDENCE USED EXCLUSIVELY AS A RESIDENCE IS NOT COVERED BY THESE STANDARDS. THOSE PORTIONS USED IN THE OPERATION OF THE COMMERCIAL FACILITY OR PUBLIC ACCOMMODATION OR THAT PORTION USED BOTH FOR THE COMMERCIAL FACILITY OR PUBLIC ACCOMMODATION AND FOR RESIDENTIAL PURPOSES IS COVERED BY THE NEW CONSTRUCTION AND ALTERATIONS REQUIREMENTS OF THESE STANDARDS. THE PORTION OF THE RESIDENCE USED IN THE OPERATION OF THE COMMERCIAL FACILITY OR PUBLIC ACCOMMODATION EXTENDS TO THOSE ELEMENTS USED TO ENTER THE COMMERCIAL FACILITY OR PUBLIC ACCOMMODATION, INCLUDING THE HOMEOWNER'S FRONT SIDEWALK, IF ANY, THE DOOR OR ENTRYWAY, AND HALLWAYS; AND THOSE PORTIONS OF THE RESIDENCE, INTERIOR OR EXTERIOR, AVAILABLE TO OR USED BY EMPLOYEES OR VISITORS OF THE COMMERCIAL FACILITY OR PUBLIC ACCOMMODATION, INCLUDING RESTROOMS.

201.2 APPLICATION BASED ON BUILDING OR FACILITY USE, WHERE A SITE, BUILDING, FACILITY, ROOM, OR SPACE CONTAINS MORE THAN ONE USE, EACH PORTION SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS FOR THAT USE.

203 GENERAL EXCEPTIONS

203.3.9 EMPLOYEE WORK AREAS, SPACES AND ELEMENTS WITHIN EMPLOYEE WORK AREAS SHALL ONLY BE REQUIRED TO COMPLY WITH 206.2.2, 207.1, AND 215.3 AND SHALL BE DESIGNED AND CONSTRUCTED SO THAT INDIVIDUALS WITH DISABILITIES CAN APPROACH, ENTER, AND EXIT THE EMPLOYEE WORK AREA, EMPLOYEE WORK AREAS, OR PORTIONS OF EMPLOYEE WORK AREAS, THAT ARE LESS THAN 300 SQUARE FEET AND ELEVATED 7 INCHES OR MORE ABOVE THE FINISHED FLOOR OR GROUND WHERE THE ELEVATION IS ESSENTIAL TO THE FUNCTION OF THE SPACE SHALL NOT BE REQUIRED TO COMPLY WITH THESE REQUIREMENTS OR TO BE ON AN ACCESSIBLE ROUTE.

204 PROTRUDING OBJECTS

204.1 GENERAL. PROTRUDING OBJECTS ON CIRCULATION PATHS SHALL COMPLY WITH 307.

205 OPERABLE PARTS

205.1 GENERAL. OPERABLE PARTS ON ACCESSIBLE ELEMENTS, ACCESSIBLE ROUTES, AND IN ACCESSIBLE ROOMS AND SPACES SHALL COMPLY WITH 309.

EXCEPTIONS:
1. OPERABLE PARTS THAT ARE INTENDED FOR USE BY SERVICE OR MAINTENANCE PERSONNEL SHALL NOT BE REQUIRED TO COMPLY WITH 309.

2. ELECTRICAL OR COMMUNICATION RECEPTACLES SERVING A DEDICATED USE SHALL NOT BE REQUIRED TO COMPLY WITH 309.

3. WHERE TWO OR MORE OUTLETS ARE PROVIDED IN A KITCHEN ABOVE A LENGTH OF COUNTER TOP THAT IS UNINTERRUPTED BY A SINK OR APPLIANCE, ONE OUTLET SHALL NOT BE REQUIRED TO COMPLY WITH 309.

4. FLOOR ELECTRICAL RECEPTACLES SHALL NOT BE REQUIRED TO COMPLY WITH 309.

5. HVAC DIFFUSERS SHALL NOT BE REQUIRED TO COMPLY WITH 309.

6. EXCEPT FOR LIGHT SWITCHES, WHERE REDUNDANT CONTROLS ARE PROVIDED FOR A SINGLE ELEMENT, ONE CONTROL IN EACH SPACE SHALL NOT BE REQUIRED TO COMPLY WITH 309.

206 ACCESSIBLE ROUTES

206.2.1 SITE ARRIVAL POINTS, AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES AND ACCESSIBLE PASSENGER LOADING ZONES; PUBLIC STREETS AND SIDEWALKS; AND PUBLIC TRANSPORTATION STOPS TO THE ACCESSIBLE BUILDING OR FACILITY ENTRANCE THEY SERVE.

EXCEPTIONS:
1. WHERE EXCEPTIONS FOR ALTERATIONS TO QUALIFIED HISTORIC BUILDINGS OR FACILITIES ARE PERMITTED BY 202.5, NO MORE THAN ONE ACCESSIBLE ROUTE FROM A SITE ARRIVAL POINT TO AN ACCESSIBLE ENTRANCE SHALL BE REQUIRED.

2. AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED BETWEEN SITE ARRIVAL POINTS AND THE BUILDING OR FACILITY ENTRANCE IF THE ONLY MEANS OF ACCESS BETWEEN THEM IS A VEHICULAR WAY NOT PROVIDING PEDESTRIAN ACCESS.

206.2.2 WITHIN A SITE, AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE.

EXCEPTION: AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED BETWEEN ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES IF THE ONLY MEANS OF ACCESS BETWEEN THEM IS A VEHICULAR WAY NOT PROVIDING PEDESTRIAN ACCESS.

206.2.8 EMPLOYEE WORK AREAS, COMMON USE CIRCULATION PATHS WITHIN EMPLOYEE WORK AREAS SHALL COMPLY WITH 402.

EXCEPTIONS:
1. COMMON USE CIRCULATION PATHS LOCATED WITHIN EMPLOYEE WORK AREAS THAT ARE LESS THAN 1000 SQUARE FEET AND DEFINED BY PERMANENTLY INSTALLED PARTITIONS, COUNTERS, CASEWORK, OR FURNISHINGS SHALL NOT BE REQUIRED TO COMPLY WITH 402.

2. COMMON USE CIRCULATION PATHS LOCATED WITHIN EMPLOYEE WORK AREAS THAT ARE AN INTEGRAL COMPONENT OF WORK AREA EQUIPMENT SHALL NOT BE REQUIRED TO COMPLY WITH 402.

3. COMMON USE CIRCULATION PATHS LOCATED WITHIN EXTERIOR EMPLOYEE WORK AREAS THAT ARE FULLY EXPOSED TO THE WEATHER SHALL NOT BE REQUIRED TO COMPLY WITH 402.

206.3 LOCATION. ACCESSIBLE ROUTES SHALL COINCIDE WITH OR BE LOCATED IN THE SAME AREA AS GENERAL CIRCULATION PATHS, WHERE CIRCULATION PATHS ARE INTERIOR, REQUIRED ACCESSIBLE ROUTES SHALL ALSO BE INTERIOR.

206.4 ENTRANCES. ENTRANCES SHALL BE PROVIDED IN ACCORDANCE WITH 206.4. ENTRANCE DOORS, DOORWAYS, AND GATES SHALL COMPLY WITH 404 AND SHALL BE ON AN ACCESSIBLE ROUTE COMPLYING WITH 402.

206.4.1 PUBLIC ENTRANCES. IN ADDITION TO ENTRANCES REQUIRED BY 206.4.2 THROUGH 206.4.3, AT LEAST 60 PERCENT OF ALL PUBLIC ENTRANCES SHALL COMPLY WITH 404.

206.4.2 PARKING STRUCTURE ENTRANCES, WHERE DIRECT ACCESS IS PROVIDED FOR PEDESTRIANS FROM A PARKING STRUCTURE TO A BUILDING OR FACILITY ENTRANCE, EACH DIRECT ACCESS TO THE BUILDING OR FACILITY ENTRANCE SHALL COMPLY WITH 404.

206.4.3 ENTRANCES FROM TUNNELS OR ELEVATED WALKWAYS, WHERE DIRECT ACCESS IS PROVIDED FOR PEDESTRIANS FROM A PEDESTRIAN TUNNEL OR ELEVATED WALKWAY TO A BUILDING OR FACILITY, AT LEAST ONE DIRECT ENTRANCE TO THE BUILDING OR FACILITY FROM EACH TUNNEL OR WALKWAY SHALL COMPLY WITH 404.

206.4.7 RESTRICTED ENTRANCES, WHERE RESTRICTED ENTRANCES ARE PROVIDED TO A BUILDING OR FACILITY, AT LEAST ONE RESTRICTED ENTRANCE TO THE BUILDING OR FACILITY SHALL COMPLY WITH 404.

206.4.8 SERVICE ENTRANCES, IF A SERVICE ENTRANCE IS THE ONLY ENTRANCE TO A BUILDING OR TO A TENANCY IN A FACILITY, THAT ENTRANCE SHALL COMPLY WITH 404.

206.5 DOORS, DOORWAYS, AND GATES. DOORS, DOORWAYS, AND GATES PROVIDING USER PASSAGE SHALL BE PROVIDED IN ACCORDANCE WITH 206.5.

206.5.1 ENTRANCES, EACH ENTRANCE TO A BUILDING OR FACILITY REQUIRED TO COMPLY WITH 206.4 SHALL HAVE AT LEAST ONE DOOR, DOORWAY, OR GATE COMPLYING WITH 404.

206.5.2 ROOMS AND SPACES, WITHIN A BUILDING OR FACILITY, AT LEAST ONE DOOR, DOORWAY, OR GATE SERVING EACH ROOM OR SPACE COMPLYING WITH THESE REQUIREMENTS SHALL COMPLY WITH 404.

206.7 PLATFORM LIFTS. PLATFORM LIFTS SHALL COMPLY WITH 410. PLATFORM LIFTS SHALL BE PERMITTED AS A COMPONENT OF AN ACCESSIBLE ROUTE IN NEW CONSTRUCTION IN ACCORDANCE WITH 206.7. PLATFORM LIFTS SHALL BE PERMITTED AS A COMPONENT OF AN ACCESSIBLE ROUTE IN AN EXISTING BUILDING OR FACILITY.

206.7.5 EXISTING SITE CONSTRAINTS. PLATFORM LIFTS SHALL BE PERMITTED WHERE EXISTING EXTERIOR SITE CONSTRAINTS MAKE USE OF A RAMP OR ELEVATOR TECHNICALLY INFEASIBLE.

207 ACCESSIBLE MEANS OF EGRESS

207.1 GENERAL. MEANS OF EGRESS SHALL COMPLY WITH SECTION 1003.2.13 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION AND 2001 SUPPLEMENT) OR SECTION 1007 OF THE INTERNATIONAL BUILDING CODE (2003 EDITION).

EXCEPTION: WHERE MEANS OF EGRESS ARE PERMITTED BY LOCAL BUILDING OR LIFE SAFETY CODES TO SHARE A COMMON PATH OF EGRESS TRAVEL, ACCESSIBLE MEANS OF EGRESS SHALL BE PERMITTED TO SHARE A COMMON PATH OF EGRESS TRAVEL.

207.2 PLATFORM LIFTS, STANDBY POWER SHALL BE PROVIDED FOR PLATFORM LIFTS PERMITTED BY SECTION 1003.2.13.4 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION AND 2001 SUPPLEMENT) OR SECTION 1007.5 OF THE INTERNATIONAL BUILDING CODE (2003 EDITION) TO SERVE AS A PART OF AN ACCESSIBLE MEANS OF EGRESS.

208 PARKING SPACES

208.1 GENERAL. WHERE PARKING SPACES ARE PROVIDED, PARKING SPACES SHALL BE PROVIDED IN ACCORDANCE WITH 208.

EXCEPTION: PARKING SPACES USED EXCLUSIVELY FOR BUSES, TRUCKS, OTHER DELIVERY VEHICLES, LAW ENFORCEMENT VEHICLES, OR VEHICULAR IMPOUND SHALL NOT BE REQUIRED TO COMPLY WITH 208 PROVIDED THAT LOTS ACCESSED BY THE PUBLIC ARE PROVIDED WITH A PASSENGER LOADING ZONE COMPLYING WITH 503.

208.2 MINIMUM NUMBER. PARKING SPACES COMPLYING WITH 502 SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 208.2 EXCEPT AS REQUIRED BY 208.2.1, 208.2.2, AND 208.2.3, WHERE MORE THAN ONE PARKING FACILITY IS PROVIDED ON A SITE, THE NUMBER OF ACCESSIBLE SPACES PROVIDED ON THE SITE SHALL BE CALCULATED ACCORDING TO THE NUMBER OF SPACES REQUIRED FOR EACH PARKING FACILITY.

TABLE 208.2 PARKING SPACES

TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY	TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1,000	2 PERCENT OF TOTAL
1,001 AND OVER	20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF; OVER 1,000

208.2.4 VAN PARKING SPACES, FOR EVERY SIX OR FRACTION OF SIX PARKING SPACES REQUIRED BY 208.2 TO COMPLY WITH 502, AT LEAST ONE SHALL BE A VAN PARKING SPACE COMPLYING WITH 502.

208.3 LOCATION. PARKING FACILITIES SHALL COMPLY WITH 208.3.

208.3.1 GENERAL. PARKING SPACES COMPLYING WITH 502 THAT SERVE A PARTICULAR BUILDING OR FACILITY SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE FROM PARKING TO AN ENTRANCE COMPLYING WITH 206.4, WHERE PARKING SERVES MORE THAN ONE ACCESSIBLE ENTRANCE, PARKING SPACES COMPLYING WITH 502 SHALL BE DISPERSED AND LOCATED ON THE SHORTEST ACCESSIBLE ROUTE TO THE ACCESSIBLE ENTRANCES. IN PARKING FACILITIES THAT DO NOT SERVE A PARTICULAR BUILDING OR FACILITY, PARKING SPACES COMPLYING WITH 502 SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE TO AN ACCESSIBLE PEDESTRIAN ENTRANCE OF THE PARKING FACILITY.

EXCEPTIONS:
1. ALL VAN PARKING SPACES SHALL BE PERMITTED TO BE GROUPED ON ONE LEVEL WITHIN A MULTI-STORY PARKING FACILITY.

2. PARKING SPACES SHALL BE PERMITTED TO BE LOCATED IN DIFFERENT PARKING FACILITIES IF SUBSTANTIALLY EQUIVALENT OR GREATER ACCESSIBILITY IS PROVIDED IN TERMS OF DISTANCE FROM AN ACCESSIBLE ENTRANCE OR ENTRANCES, PARKING FEE, AND USER CONVENIENCE.

209 PASSENGER LOADING ZONES AND BUS STOPS

209.1 GENERAL. PASSENGER LOADING ZONES SHALL BE PROVIDED IN ACCORDANCE WITH 209.

209.2 TYPE. WHERE PROVIDED, PASSENGER LOADING ZONES SHALL COMPLY WITH 209.2.

209.2.1 PASSENGER LOADING ZONES, PASSENGER LOADING ZONES, EXCEPT THOSE REQUIRED TO COMPLY WITH 209.2.2 AND 209.2.3, SHALL PROVIDE AT LEAST ONE PASSENGER LOADING ZONE COMPLYING WITH 503 IN EVERY CONTINUOUS 100 LINEAR FEET (30 M) OF LOADING ZONE SPACE, OR FRACTION THEREOF.

209.2.2 BUS LOADING ZONES, IN BUS LOADING ZONES RESTRICTED TO USE BY DESIGNATED OR SPECIFIED PUBLIC TRANSPORTATION VEHICLES, EACH BUS BAY, BUS STOP, OR OTHER AREA DESIGNATED FOR LIFT OR RAMP DEPLOYMENT SHALL COMPLY WITH 810.2.

209.5 MECHANICAL ACCESS. PARKING GARAGES, MECHANICAL ACCESS. PARKING GARAGES SHALL PROVIDE AT LEAST ONE PASSENGER LOADING ZONE COMPLYING WITH 503 AT VEHICLE DROP-OFF AND VEHICLE PICK-UP AREAS.

210 STAIRWAYS

210.1 GENERAL. INTERIOR AND EXTERIOR STAIRS THAT ARE PART OF A MEANS OF EGRESS SHALL COMPLY WITH 504.

211 DRINKING FOUNTAINS

211.1 GENERAL. WHERE DRINKING FOUNTAINS ARE PROVIDED ON AN EXTERIOR SITE, ON A FLOOR, OR WITHIN A SECURED AREA THEY SHALL BE PROVIDED IN ACCORDANCE WITH 211.

211.2 MINIMUM NUMBER. NO FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED. ONE DRINKING FOUNTAIN SHALL COMPLY WITH 602.1 THROUGH 602.6 AND ONE DRINKING FOUNTAIN SHALL COMPLY WITH 602.7.

EXCEPTION: WHERE A SINGLE DRINKING FOUNTAIN COMPLIES WITH 602.1 THROUGH 602.6 AND 602.7, IT SHALL BE PERMITTED TO BE SUBSTITUTED FOR TWO SEPARATE DRINKING FOUNTAINS.

211.3 MORE THAN MINIMUM NUMBER. WHERE MORE THAN THE MINIMUM NUMBER OF DRINKING FOUNTAINS SPECIFIED IN 211.2 ARE PROVIDED, 50 PERCENT OF THE TOTAL NUMBER OF DRINKING FOUNTAINS PROVIDED SHALL COMPLY WITH 602.1 THROUGH 602.6, AND 50 PERCENT OF THE TOTAL NUMBER OF DRINKING FOUNTAINS PROVIDED SHALL COMPLY WITH 602.7.

EXCEPTION: WHERE 50 PERCENT OF THE DRINKING FOUNTAINS YIELDS A FRACTION, 50 PERCENT SHALL BE PERMITTED TO BE ROUNDED UP OR DOWN PROVIDED THAT THE TOTAL NUMBER OF DRINKING FOUNTAINS COMPLYING WITH 211 EQUALS 100 PERCENT OF DRINKING FOUNTAINS.

212 KITCHENS, KITCHENETTES, AND SINKS

212.1 GENERAL. WHERE PROVIDED, KITCHENS, KITCHENETTES, AND SINKS SHALL COMPLY WITH 212.

212.2 KITCHENS AND KITCHENETTES. KITCHENS AND KITCHENETTES SHALL COMPLY WITH 604.

212.3 SINKS, WHERE SINKS ARE PROVIDED, AT LEAST 9 PERCENT, BUT NO FEWER THAN ONE, OF EACH TYPE PROVIDED IN EACH ACCESSIBLE ROOM OR SPACE SHALL COMPLY WITH 606.

EXCEPTION: MOP OR SERVICE SINKS SHALL NOT BE REQUIRED TO COMPLY WITH 212.3.

NOTES:
1. SECTIONS OF 2012 TAS NOT PERTAINING TO THIS PROJECT HAVE BEEN OMITTED.
2. FIGURES ARE NOT TO SCALE.
3. ALL DIMENSIONS IN THE 2012 TAS - TEXAS ACCESSIBILITY STANDARDS ARE MEASURED TO FINISHED SURFACES. DIMENSIONS IN THE ACTUAL CONSTRUCTION DRAWINGS ARE MEASURED TO RAW FRAMING.

213 TOILET FACILITIES AND BATHING FACILITIES

213.1 GENERAL. WHERE TOILET FACILITIES AND BATHING FACILITIES ARE PROVIDED, THEY SHALL COMPLY WITH 213, WHERE TOILET FACILITIES AND BATHING FACILITIES ARE PROVIDED IN FACILITIES PERMITTED BY 206.2.3 EXCEPTIONS 1 AND 2 NOT TO CONNECT STORIES BY AN ACCESSIBLE ROUTE, TOILET FACILITIES AND BATHING FACILITIES SHALL BE PROVIDED ON A STORY CONNECTED BY AN ACCESSIBLE ROUTE TO AN ACCESSIBLE ENTRANCE.

213.2 TOILET ROOMS AND BATHING ROOMS, WHERE TOILET ROOMS ARE PROVIDED, EACH TOILET ROOM SHALL COMPLY WITH 603, WHERE BATHING ROOMS ARE PROVIDED, EACH BATHING ROOM SHALL COMPLY WITH 603.

EXCEPTION: WHERE MULTIPLE SINGLE USER TOILET ROOMS ARE CLUSTERED AT A SINGLE LOCATION, NO MORE THAN 50 PERCENT OF THE SINGLE USER TOILET ROOMS FOR EACH USE AT EACH CLUSTER SHALL BE REQUIRED TO COMPLY WITH 603.

213.2.1 UNISEX (SINGLE-USE OR FAMILY) TOILET AND UNISEX BATHING ROOMS, UNISEX TOILET ROOMS SHALL CONTAIN NOT MORE THAN ONE LAVATORY, AND TWO WATER CLOSETS WITHOUT URINALS OR ONE WATER CLOSET AND ONE URINAL. UNISEX BATHING ROOMS SHALL CONTAIN ONE SHOWER OR ONE SHOWER AND ONE BATHTUB, ONE LAVATORY, AND ONE WATER CLOSET. DOORS TO UNISEX TOILET ROOMS AND UNISEX BATHING ROOMS SHALL HAVE PRIVACY LATOES.

213.3 PLUMBING FIXTURES AND ACCESSORIES. PLUMBING FIXTURES AND ACCESSORIES PROVIDED IN A TOILET ROOM OR BATHING ROOM REQUIRED TO COMPLY WITH 213.2 SHALL COMPLY WITH 213.3.

213.3.1 TOILET COMPARTMENTS, WHERE TOILET COMPARTMENTS ARE PROVIDED, AT LEAST ONE TOILET COMPARTMENT SHALL COMPLY WITH 604.8.1. IN ADDITION TO THE COMPARTMENT REQUIRED TO COMPLY WITH 604.8.1, AT LEAST ONE COMPARTMENT SHALL COMPLY WITH 604.8.2 WHERE SIX OR MORE TOILET COMPARTMENTS ARE PROVIDED, OR WHERE THE COMBINATION OF URINALS AND WATER CLOSETS TOTALS SIX OR MORE FIXTURES.

213.3.2 WATER CLOSETS, WHERE WATER CLOSETS ARE PROVIDED, AT LEAST ONE SHALL COMPLY WITH 604.

213.3.3 URINALS, WHERE MORE THAN ONE URINAL IS PROVIDED, AT LEAST ONE SHALL COMPLY WITH 605.

213.3.4 LAVATORIES, WHERE LAVATORIES ARE PROVIDED, AT LEAST ONE SHALL COMPLY WITH 606 AND SHALL NOT BE LOCATED IN A TOILET COMPARTMENT.

213.3.5 MIRRORS, WHERE MIRRORS ARE PROVIDED, AT LEAST ONE SHALL COMPLY WITH 603.3, ACCESSIBLE MIRRORS SHALL BE PROVIDED AT LOCATIONS THAT ARE CONSISTENT WITH THE LOCATION OF OTHER MIRRORS IN THE SAME ROOM.

213.3.6 BATHING FACILITIES, WHERE BATHTUBS OR SHOWERS ARE PROVIDED, AT LEAST ONE BATHTUB COMPLYING WITH 607 OR AT LEAST ONE SHOWER COMPLYING WITH 608 SHALL BE PROVIDED.

213.3.7 COAT HOOKS AND SHELVES, WHERE COAT HOOKS OR SHELVES ARE PROVIDED IN TOILET ROOMS WITHOUT TOILET COMPARTMENTS, AT LEAST ONE OF EACH TYPE SHALL COMPLY WITH 603.4, WHERE COAT HOOKS OR SHELVES ARE PROVIDED IN TOILET COMPARTMENTS, AT LEAST ONE OF EACH TYPE COMPLYING WITH 604.8.3 SHALL BE PROVIDED IN TOILET COMPARTMENTS REQUIRED TO COMPLY WITH 213.3.1, WHERE COAT HOOKS OR SHELVES ARE PROVIDED IN BATHING FACILITIES, AT LEAST ONE OF EACH TYPE COMPLYING WITH 603.4 SHALL SERVE FIXTURES REQUIRED TO COMPLY WITH 213.3.6.

215 FIRE ALARM SYSTEMS

215.1 GENERAL. WHERE FIRE ALARM SYSTEMS PROVIDE AUDIBLE ALARM COVERAGE, ALARMS SHALL COMPLY WITH 215.

EXCEPTION: IN EXISTING FACILITIES, VISIBLE ALARMS SHALL NOT BE REQUIRED EXCEPT WHERE AN EXISTING FIRE ALARM SYSTEM IS UPGRADED OR REPLACED, OR A NEW FIRE ALARM SYSTEM IS INSTALLED.

215.2 PUBLIC AND COMMON USE AREAS, ALARMS IN PUBLIC USE AREAS AND COMMON USE AREAS SHALL COMPLY WITH 702.

215.3 EMPLOYEE WORK AREAS, WHERE EMPLOYEE WORK AREAS HAVE AUDIBLE ALARM COVERAGE, THE WIRING SYSTEM SHALL BE DESIGNED SO THAT VISIBLE ALARMS COMPLYING WITH 702 CAN BE INTEGRATED INTO THE ALARM SYSTEM.

216 SIGNS

216.1 GENERAL. SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH 216 AND SHALL COMPLY WITH 703.

EXCEPTIONS:
1. BUILDING DIRECTORIES, MENUS, SEAT AND ROW DESIGNATIONS IN ASSEMBLY AREAS, OCCUPANT NAMES, BUILDING ADDRESSES, AND COMPANY NAMES AND LOGOS SHALL NOT BE REQUIRED TO COMPLY WITH 216.

2. IN PARKING FACILITIES, SIGNS SHALL NOT BE REQUIRED TO COMPLY WITH 216.2, 216.3, AND 216.6 THROUGH 216.12.

3. TEMPORARY, 7 DAYS OR LESS, SIGNS SHALL NOT BE REQUIRED TO COMPLY WITH 216.

4. IN DETENTION AND CORRECTIONAL FACILITIES, SIGNS NOT LOCATED IN PUBLIC USE AREAS SHALL NOT BE REQUIRED TO COMPLY WITH 216.

216.2 DESIGNATIONS, INTERIOR AND EXTERIOR SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL COMPLY WITH 703.1, 703.2, AND 703.5, WHERE PICTOGRAMS ARE PROVIDED AS DESIGNATIONS OF PERMANENT INTERIOR ROOMS AND SPACES, THE PICTOGRAMS SHALL COMPLY WITH 703.6 AND SHALL HAVE TEXT DESCRIPTORS COMPLYING WITH 703.2 AND 703.5.

EXCEPTION: EXTERIOR SIGNS THAT ARE NOT LOCATED AT THE DOOR TO THE SPACE THEY SERVE SHALL NOT BE REQUIRED TO COMPLY WITH 703.2.

216.3 DIRECTIONAL AND INFORMATIONAL SIGNS, SIGNS THAT PROVIDE DIRECTION TO OR INFORMATION ABOUT INTERIOR SPACES AND FACILITIES OF THE SITE SHALL COMPLY WITH 703.5.

216.4 MEANS OF EGRESS. SIGNS FOR MEANS OF EGRESS SHALL COMPLY WITH 216.4.

216.4.1 EXIT DOORS, DOORS AT EXIT PASSAGEWAYS, EXIT DISCHARGE, AND EXIT STAIRWAYS SHALL BE IDENTIFIED BY TACTILE SIGNS COMPLYING WITH 703.1, 703.2, AND 703.5.

216.4.2 AREAS OF REFUGE. SIGNS REQUIRED BY SECTION 1003.2.13.5.4 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION) OR SECTION 1007.6.4 OF THE INTERNATIONAL BUILDING CODE (2003 EDITION) TO PROVIDE INSTRUCTIONS IN AREAS OF REFUGE SHALL COMPLY WITH 703.5.

216.4.3 DIRECTIONAL SIGNS, SIGNS REQUIRED BY SECTION 1003.2.13.6 OF THE INTERNATIONAL BUILDING CODE (2000 EDITION) OR SECTION 1007.7 OF THE INTERNATIONAL BUILDING CODE (2003 EDITION) TO PROVIDE DIRECTIONS TO ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH 703.5.

216.5 PARKING. PARKING SPACES COMPLYING WITH 502 SHALL BE IDENTIFIED BY SIGNS COMPLYING WITH 502.6.

EXCEPTION: WHERE A TOTAL OF FOUR OR FEWER PARKING SPACES, INCLUDING ACCESSIBLE PARKING SPACES, ARE PROVIDED ON A SITE, IDENTIFICATION OF ACCESSIBLE PARKING SPACES SHALL NOT BE REQUIRED.

216.6 ENTRANCES, WHERE NOT ALL ENTRANCES COMPLY WITH 404, ENTRANCES COMPLYING WITH 404 SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.7.2.1. DIRECTIONAL SIGNS COMPLYING WITH 703.5 THAT INDICATE THE LOCATION OF THE NEAREST ENTRANCE COMPLYING WITH 404 SHALL BE PROVIDED AT ENTRANCES THAT DO NOT COMPLY WITH 404.

216.7 ELEVATORS, WHERE EXISTING ELEVATORS DO NOT COMPLY WITH 407, ELEVATORS COMPLYING WITH 407 SHALL BE CLEARLY IDENTIFIED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.7.2.1.

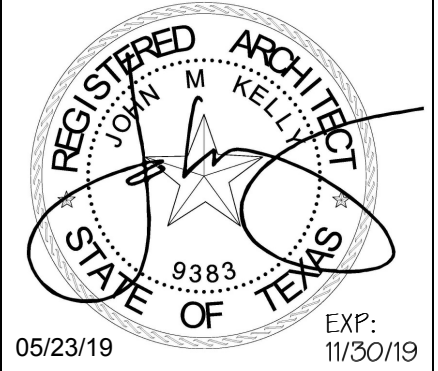
216.8 TOILET ROOMS AND BATHING ROOMS, WHERE EXISTING TOILET ROOMS OR BATHING ROOMS DO NOT COMPLY WITH 603, DIRECTIONAL SIGNS INDICATING THE LOCATION OF THE NEAREST TOILET ROOM OR BATHING ROOM COMPLYING WITH 603 WITHIN THE FACILITY SHALL BE PROVIDED. SIGNS SHALL COMPLY WITH 703.5 AND SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.7.2.1, WHERE EXISTING TOILET ROOMS OR BATHING ROOMS DO NOT COMPLY WITH 603, THE TOILET ROOMS OR BATHING ROOMS COMPLYING WITH 603 SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.7.2.1, WHERE CLUSTERED SINGLE USER TOILET ROOMS OR BATHING FACILITIES ARE PERMITTED TO USE EXCEPTIONS TO 213.2, TOILET ROOMS OR BATHING FACILITIES COMPLYING WITH 603 SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.7.2.1 UNLESS ALL TOILET ROOMS AND BATHING FACILITIES COMPLY WITH 603.

229 WINDOWS

229.1 GENERAL. WHERE GLAZED OPENINGS ARE PROVIDED IN ACCESSIBLE ROOMS OR SPACES FOR OPERATION BY OCCUPANTS, AT LEAST ONE OPENING SHALL COMPLY WITH 309, EACH GLAZED OPENING REQUIRED BY AN ADMINISTRATIVE AUTHORITY TO BE OPERABLE SHALL COMPLY WITH 309.

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PROJECT #:	18-2325



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MOONLIGHT GARDEN		
8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747		
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2012 TAS - TEXAS ACCESSIBILITY STANDARDS -- CONTINUED

CHAPTER 3: BUILDING BLOCKS

301 GENERAL
301.1 SCOPE. THE PROVISIONS OF CHAPTER 3 SHALL APPLY WHERE REQUIRED BY CHAPTER 2 OR WHERE REFERENCED BY A REQUIREMENT IN THIS DOCUMENT.

302 FLOOR OR GROUND SURFACES

302.1 GENERAL. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT AND SHALL COMPLY WITH 302.

302.2 CARPET. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2 INCH (13 MM) MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH 303.

302.3 OPENINGS. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2 INCH DIAMETER EXCEPT AS ALLOWED IN 407.4.3, 409.4.3, 410.4, 810.5.3 AND 810.10. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

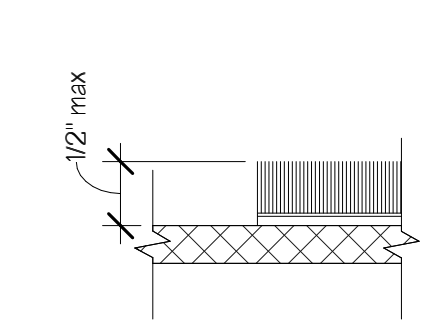


Fig. 302.2
Carpet Pile Height

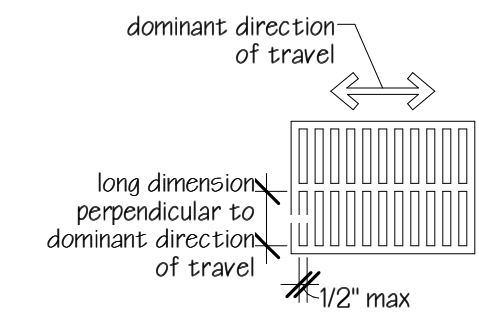


Fig. 302.3
Elongated Openings in
Floor or Ground Surfaces

303 CHANGES IN LEVEL

303.1 GENERAL. WHERE CHANGES IN LEVEL ARE PERMITTED IN FLOOR OR GROUND SURFACES, THEY SHALL COMPLY WITH 303.

303.2 VERTICAL. CHANGES IN LEVEL OF 1/4 INCH HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL.

303.3 BEVELED. CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MINIMUM AND 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

303.4 RAMPS. CHANGES IN LEVEL GREATER THAN 1/2 INCH (13 MM) HIGH SHALL BE RAMPED, AND SHALL COMPLY WITH 405 OR 406.

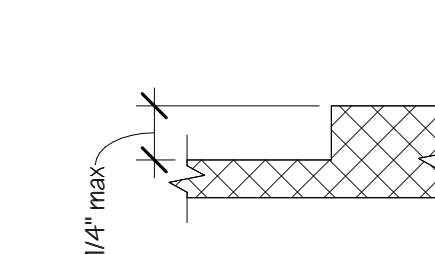


Fig. 303.2
Vertical Changes
in Level

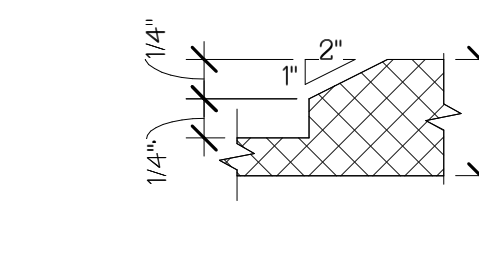


Fig. 303.3
Beveled Changes
in Level

304 TURNING SPACE

304.1 GENERAL. TURNING SPACE SHALL COMPLY WITH 304.

304.2 FLOOR OR GROUND SURFACES. FLOOR OR GROUND SURFACES OF A TURNING SPACE SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED.

EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

304.3 SIZE. TURNING SPACE SHALL COMPLY WITH 304.3.1 OR 304.3.2.

304.3.1 CIRCULAR SPACE. THE TURNING SPACE SHALL BE A SPACE OF 60 INCHES DIAMETER MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306.

304.4 DOOR SWING. DOORS SHALL BE PERMITTED TO SWING INTO TURNING SPACES.

304.3.2 T-SHAPED SPACE. THE TURNING SPACE SHALL BE A T-SHAPED SPACE WITHIN A 60 INCH SQUARE MINIMUM WITH ARMS AND BASE 36 INCHES WIDE MINIMUM. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12 INCHES MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24 INCHES MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306 ONLY AT THE END OF EITHER THE BASE OR ONE ARM.

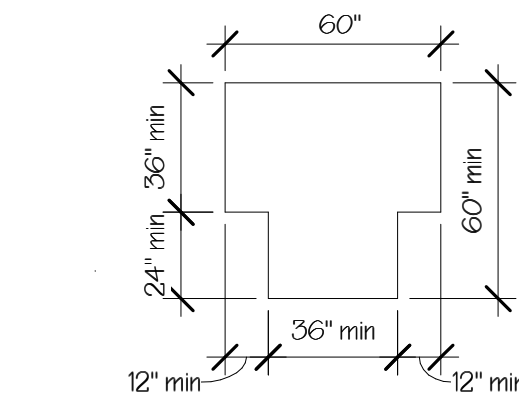


Fig. 304.3
T-Shaped Turning
Space

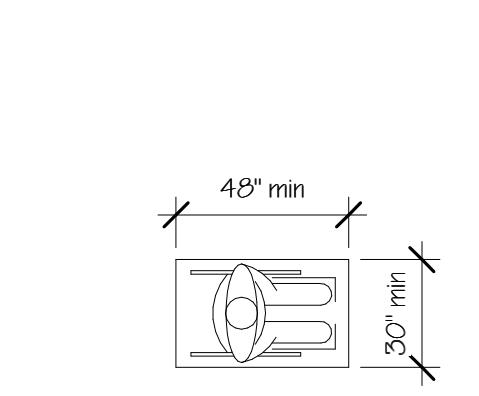


Fig. 305.3
Clear Floor or
Ground Space

305 CLEAR FLOOR OR GROUND SPACE

305.1 GENERAL. CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH 305.

305.2 FLOOR OR GROUND SURFACES. FLOOR OR GROUND SURFACES OF A CLEAR FLOOR OR GROUND SPACE SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED.

EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

305.3 SIZE. THE CLEAR FLOOR OR GROUND SPACE SHALL BE 30 INCHES MINIMUM BY 48 INCHES MINIMUM.

305.4 KNEE AND TOE CLEARANCE. UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306. 305.5 POSITION. UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT.

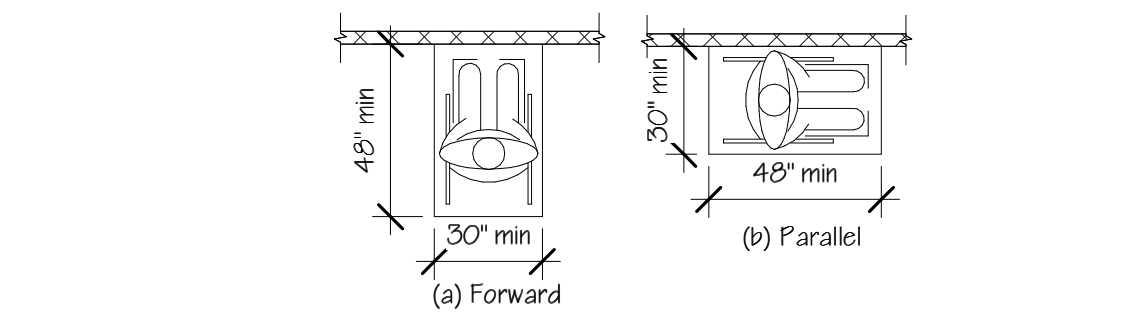


Fig. 305.5
Position of Clear Floor Ground Space

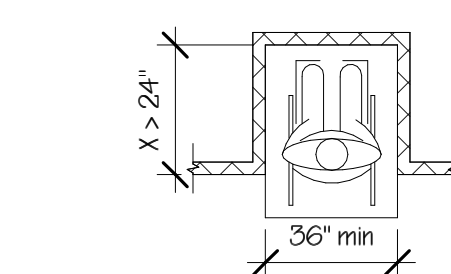


Fig. 305.7.1
Maneuvering Clearance
in an Alcove, Forward
Approach

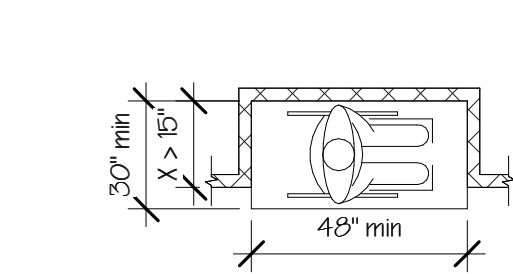


Fig. 305.7.2
Maneuvering Clearance
in an Alcove, Parallel
Approach

305.6 APPROACH. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE SHALL ADJOIN AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR OR GROUND SPACE.

305.7 MANEUVERING CLEARANCE. WHERE A CLEAR FLOOR OR GROUND SPACE IS LOCATED IN AN ALCOVE OR OTHERWISE CONFINED ON ALL OR PART OF THREE SIDES, ADDITIONAL MANEUVERING CLEARANCE SHALL BE PROVIDED IN ACCORDANCE WITH 305.7.1 AND 305.7.2.

305.7.1 FORWARD APPROACH. ALCOVES SHALL BE 36 INCHES WIDE MINIMUM WHERE THE DEPTH EXCEEDS 24 INCHES.

305.7.2 PARALLEL APPROACH. ALCOVES SHALL BE 60 INCHES WIDE MINIMUM WHERE THE DEPTH EXCEEDS 15 INCHES.

306 KNEE AND TOE CLEARANCE

306.1 GENERAL. WHERE SPACE BENEATH AN ELEMENT IS INCLUDED AS PART OF CLEAR FLOOR OR GROUND SPACE OR TURNING SPACE, THE SPACE SHALL COMPLY WITH 306. ADDITIONAL SPACE SHALL NOT BE PROHIBITED BENEATH AN ELEMENT BUT SHALL NOT BE CONSIDERED AS PART OF THE CLEAR FLOOR OR GROUND SPACE OR TURNING SPACE.

306.2 TOE CLEARANCE.

306.2.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND AND 9 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED TOE CLEARANCE AND SHALL COMPLY WITH 306.2.

306.2.2 MAXIMUM DEPTH. TOE CLEARANCE SHALL EXTEND 25 INCHES MAXIMUM UNDER AN ELEMENT.

306.2.3 MINIMUM REQUIRED DEPTH. WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17 INCHES MINIMUM UNDER THE ELEMENT.

306.2.4 ADDITIONAL CLEARANCE. SPACE EXTENDING GREATER THAN 6 INCHES BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARANCE.

306.2.5 WIDTH. TOE CLEARANCE SHALL BE 30 INCHES (760 MM) WIDE MINIMUM.

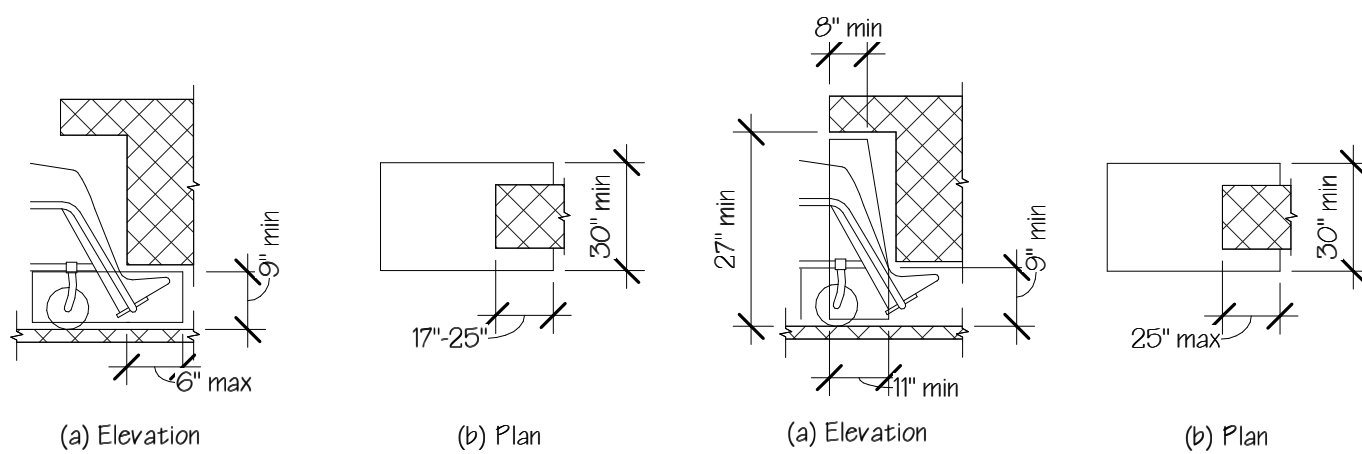


Fig. 306.2
Toe Clearance

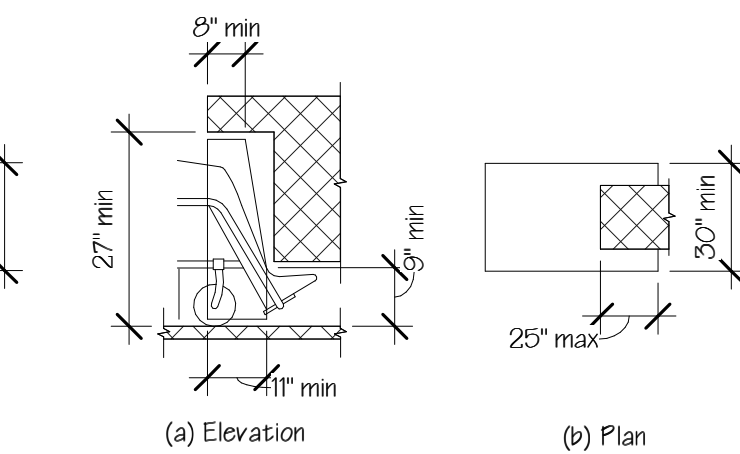


Fig. 306.3
Knee Clearance

306.3 KNEE CLEARANCE.

306.3.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED KNEE CLEARANCE AND SHALL COMPLY WITH 306.3.

306.3.2 MAXIMUM DEPTH. KNEE CLEARANCE SHALL EXTEND 25 INCHES MAXIMUM UNDER AN ELEMENT AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND.

306.3.3 MINIMUM REQUIRED DEPTH. WHERE KNEE CLEARANCE IS REQUIRED UNDER AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11 INCHES DEEP MINIMUM AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND, AND 8 INCHES DEEP MINIMUM AT 27 INCHES ABOVE THE FINISH FLOOR OR GROUND.

306.3.4 CLEARANCE REDUCTION. BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FINISH FLOOR OR GROUND, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1 INCH IN DEPTH FOR EACH 6 INCHES IN HEIGHT.

306.3.5 WIDTH. KNEE CLEARANCE SHALL BE 30 INCHES (760 MM) WIDE MINIMUM.

307 PROTRUDING OBJECTS

307.1 GENERAL. PROTRUDING OBJECTS SHALL COMPLY WITH 307.

307.2 PROTRUSION LIMITS. OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES AND NOT MORE THAN 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH.

EXCEPTION: HANDRAILS SHALL BE PERMITTED TO PROTRUDE 4 1/2 INCHES MAXIMUM.

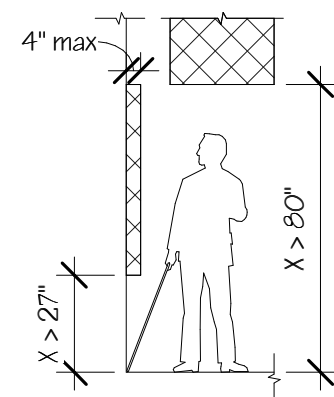


Fig. 307.2
Limits of Protruding Objects

307.3 POST-MOUNTED OBJECTS. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS SHALL OVERHANG CIRCULATION PATHS 12 INCHES MAXIMUM WHEN LOCATED 27 INCHES MINIMUM AND 80 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND WHERE A SIGN OR OTHER OBSTRUCTION IS MOUNTED BETWEEN POSTS OR PYLONS AND THE CLEAR DISTANCE BETWEEN THE POSTS OR PYLONS IS GREATER THAN 12 INCHES, THE LOWEST EDGE OF SUCH SIGN OR OBSTRUCTION SHALL BE 27 INCHES MAXIMUM OR 80 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

EXCEPTION: THE SLOPING PORTIONS OF HANDRAILS SERVING STAIRS AND RAMPS SHALL NOT BE REQUIRED TO COMPLY WITH 307.3.

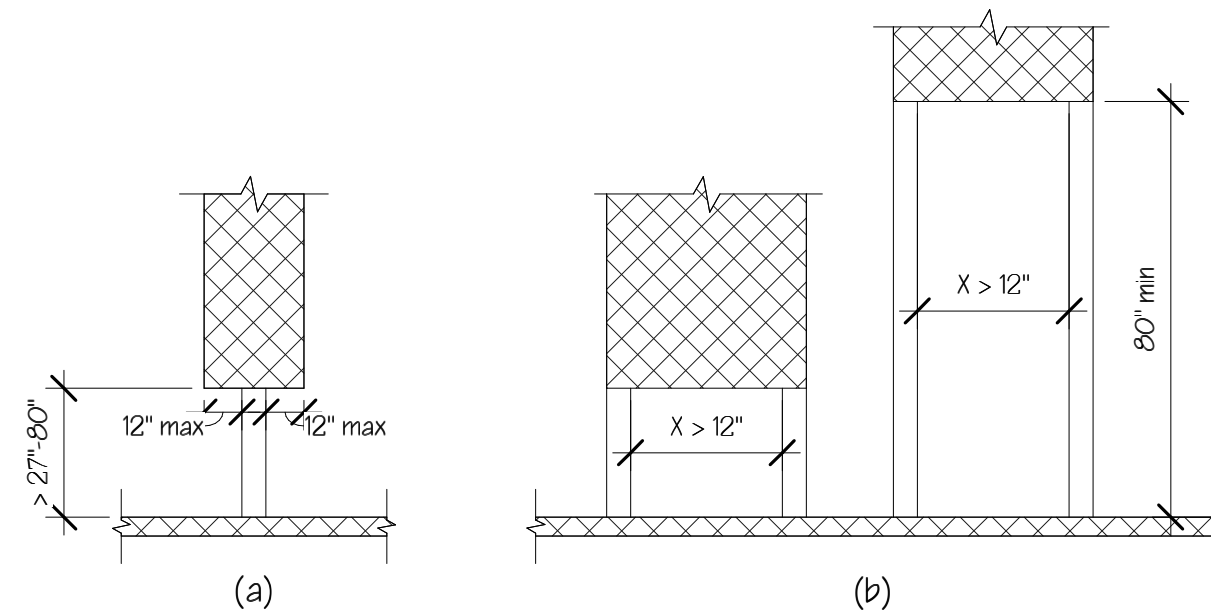


Fig. 307.3
Post-Mounted Protruding Objects

307.4 VERTICAL CLEARANCE. VERTICAL CLEARANCE SHALL BE 80 INCHES HIGH MINIMUM. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80 INCHES HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE LOCATED 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

307.5 REQUIRED CLEAR WIDTH. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH REQUIRED FOR ACCESSIBLE ROUTES.

308 REACH RANGES

308.1 GENERAL. REACH RANGES SHALL COMPLY WITH 308.

308.2 FORWARD REACH.

308.2.1 UNOBSTRUCTED. WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

308.2.2 OBSTRUCTED HIGH REACH. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES MAXIMUM, WHERE THE REACH DEPTH EXCEEDS 20 INCHES, THE HIGH FORWARD REACH SHALL BE 44 INCHES MAXIMUM AND THE REACH DEPTH SHALL BE 25 INCHES MAXIMUM.

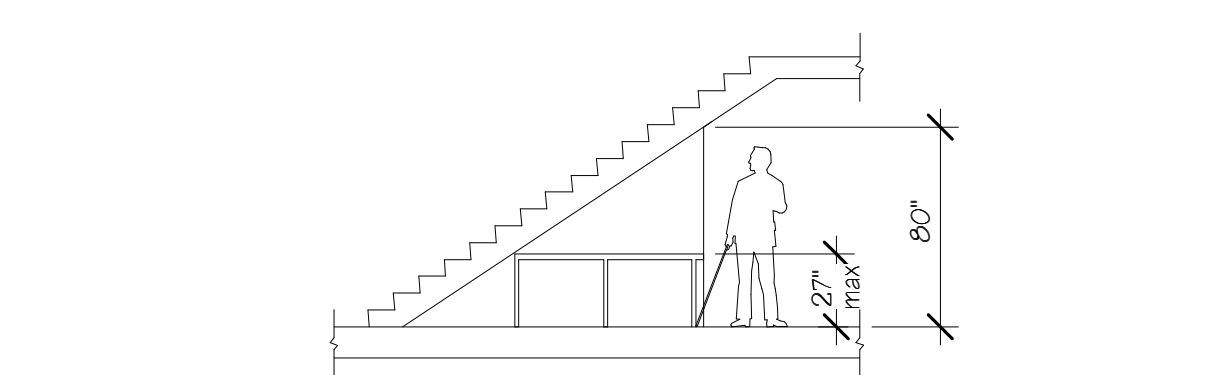


Fig. 307.4
Reduced Vertical Clearance

308.3 SIDE REACH.

308.3.1 UNOBSTRUCTED. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

EXCEPTIONS:
1. AN OBSTRUCTION SHALL BE PERMITTED BETWEEN THE CLEAR FLOOR OR GROUND SPACE AND THE ELEMENT WHERE THE DEPTH OF THE OBSTRUCTION IS 10 INCHES MAXIMUM.

2. OPERABLE PARTS OF FUEL DISPENSERS SHALL BE PERMITTED TO BE 54 INCHES MAXIMUM MEASURED FROM THE SURFACE OF THE VEHICULAR WAY WHERE FUEL DISPENSERS ARE INSTALLED ON EXISTING CURBS.

308.3.2 OBSTRUCTED HIGH REACH. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM FOR A REACH DEPTH OF 10 INCHES MAXIMUM, WHERE THE REACH DEPTH EXCEEDS 10 INCHES, THE HIGH SIDE REACH SHALL BE 46 INCHES MAXIMUM FOR A REACH DEPTH OF 24 INCHES MAXIMUM.

EXCEPTIONS:
1. THE TOP OF WASHING MACHINES AND CLOTHES DRYERS SHALL BE PERMITTED TO BE 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR.

2. OPERABLE PARTS OF FUEL DISPENSERS SHALL BE PERMITTED TO BE 54 INCHES MAXIMUM MEASURED FROM THE SURFACE OF THE VEHICULAR WAY WHERE FUEL DISPENSERS ARE INSTALLED ON EXISTING CURBS.

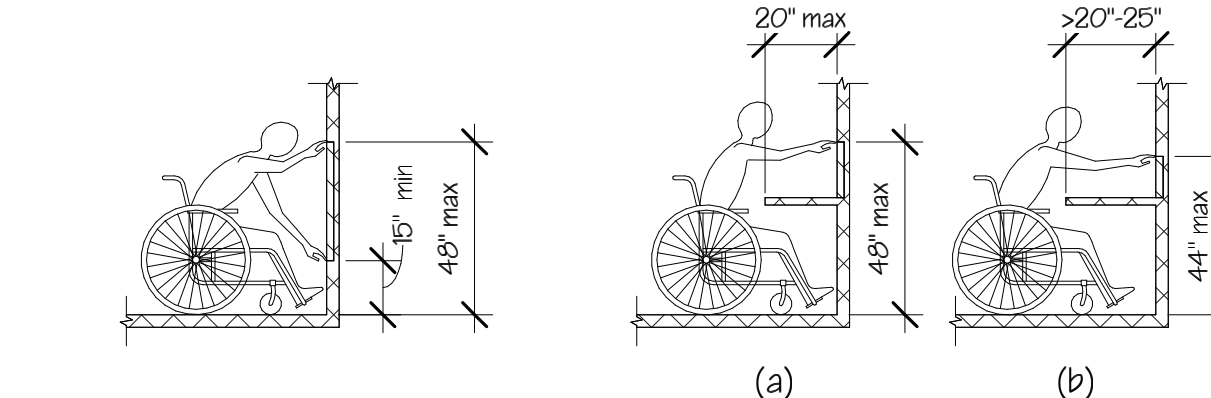


Fig. 308.2.1
Unobstructed
Forward Reach

Fig. 308.2.2
Obstructed High
Forward Reach

NOTES:
1. SECTIONS OF 2012 TAS NOT PERTAINING TO THIS PROJECT HAVE BEEN OMITTED.
2. FIGURES ARE NOT TO SCALE.
3. ALL DIMENSIONS IN THE 2012 TAS -TEXAS ACCESSIBILITY STANDARDS ARE MEASURED TO FINISHED SURFACES. DIMENSIONS IN THE ACTUAL CONSTRUCTION DRAWINGS ARE MEASURED TO RAW FRAMING.

CHAPTER 4: ACCESSIBLE ROUTES

401 GENERAL

401.1 SCOPE. THE PROVISIONS OF CHAPTER 4 SHALL APPLY WHERE REQUIRED BY CHAPTER 2 OR WHERE REFERENCED BY A REQUIREMENT IN THIS DOCUMENT.

402 ACCESSIBLE ROUTES

402.1 GENERAL. ACCESSIBLE ROUTES SHALL COMPLY WITH 402.

402.2 COMPONENTS. ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20, DOORWAYS, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, ELEVATORS, AND PLATFORM LIFTS. ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF CHAPTER 4.

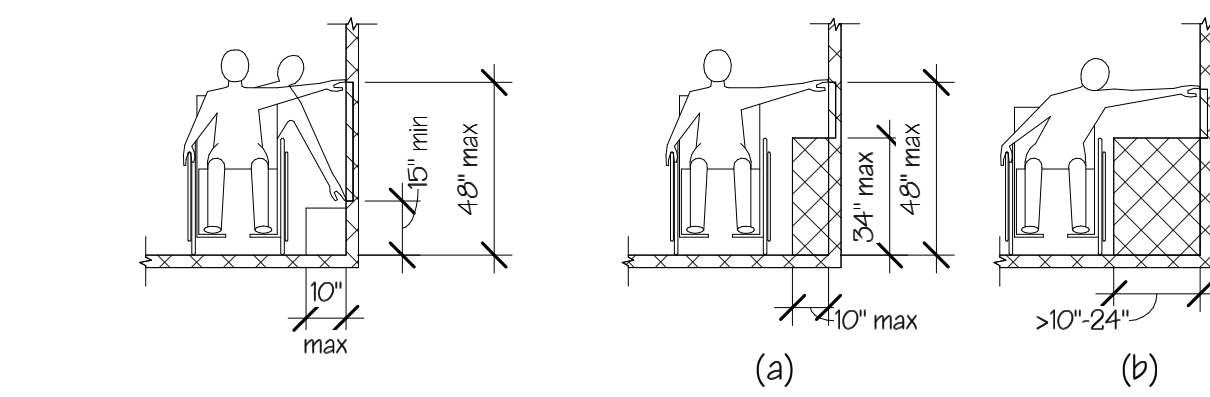


Fig. 308.3.1
Unobstructed
Side Reach

Fig. 308.3.2
Obstructed High Side Reach

403 WALKING SURFACES

403.1 GENERAL. WALKING SURFACES THAT ARE A PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH 403.

403.2 FLOOR OR GROUND SURFACE. FLOOR OR GROUND SURFACES SHALL COMPLY WITH 302.

403.3 SLOPE. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.

403.4 CHANGES IN LEVEL. CHANGES IN LEVEL SHALL COMPLY WITH 303.

403.5 CLEARANCES. WALKING SURFACES SHALL PROVIDE CLEARANCES COMPLYING WITH 403.5.

EXCEPTION: WITHIN EMPLOYEE WORK AREAS, CLEARANCES ON COMMON USE CIRCULATION PATHS SHALL BE PERMITTED TO BE DECREASED BY WORK AREA EQUIPMENT PROVIDED THAT THE DECREASE IS ESSENTIAL TO THE FUNCTION OF THE WORK BEING PERFORMED.

403.5.1 CLEAR WIDTH EXCEPT AS PROVIDED IN 403.5.2 AND 403.5.3, THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36 INCHES MINIMUM.

EXCEPTION: THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32 INCHES MINIMUM FOR A LENGTH OF 24 INCHES MAXIMUM PROVIDED THAT REDUCED WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48 INCHES LONG MINIMUM AND 36 INCH

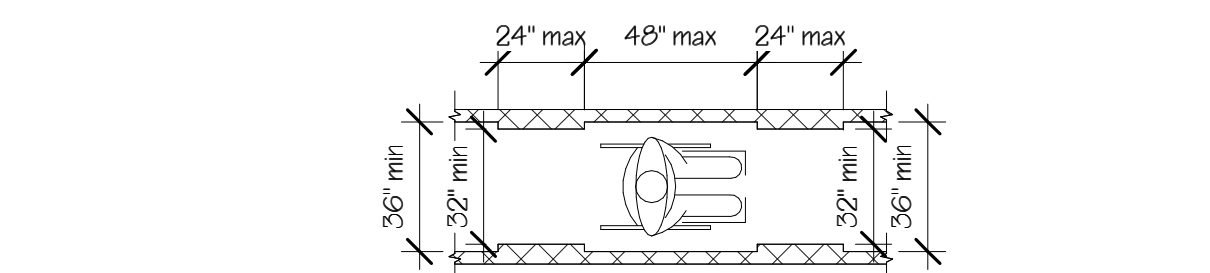


Fig. 403.5.1 - Clear Width of an
Accessible Route

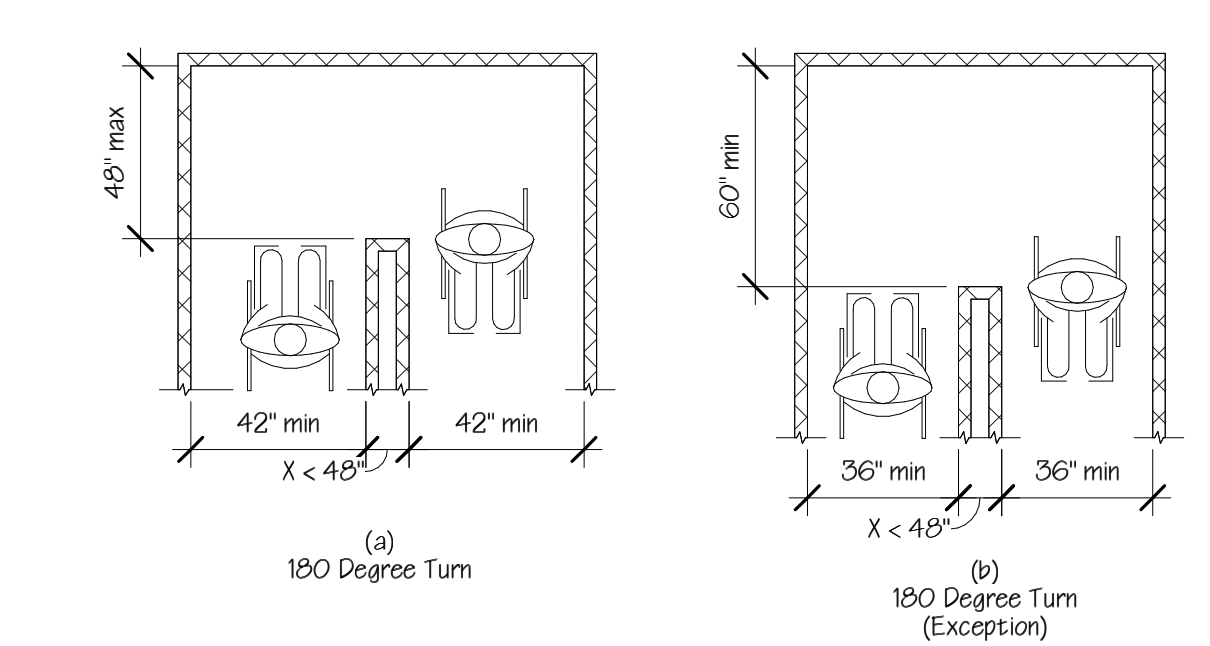


Fig. 403.5.1
Clear Width at Turn

403.5.2 CLEAR WIDTH AT TURN. WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN ELEMENT WHICH IS LESS THAN 48 INCHES WIDE, CLEAR WIDTH SHALL BE 42 INCHES MINIMUM APPROACHING THE TURN, 48 INCHES MINIMUM AT THE TURN AND 42 INCHES MINIMUM LEAVING THE TURN.

EXCEPTION: WHERE THE CLEAR WIDTH AT THE TURN IS 60 INCHES MINIMUM COMPLIANCE WITH 403.5.2 SHALL NOT BE REQUIRED.

403.5.3 PASSING SPACES. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET MAXIMUM. PASSING SPACES SHALL BE EITHER: A SPACE 60 INCHES MINIMUM BY 60 INCHES MINIMUM; OR, AN INTERSECTION OF TWO WALKING SURFACES PROVIDING A T-SHAPED SPACE COMPLYING WITH 304.3.2 WHERE THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND 48 INCHES MINIMUM BEYOND THE INTERSECTION.

403.6 HANDRAILS. WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH RUNNING SLOPES NOT STEEPER THAN 1:20 THEY SHALL COMPLY WITH 505.

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CHECKED BY: JMK
PROJECT #: 18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
05/23/19
EXP: 11/30/19

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MOONLIGHT GARDEN
8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

No.	Revision	Date
1		
2		
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4		
5		

ISSUED FOR PERMIT 06-10-2019
ISSUED FOR BID
ISSUED FOR CONSTRUCTION

DWG NAME
DATE 07/22/13
DESCRIPTION TAS SHEET 2
SHEET A1.7A

2012 TAS - TEXAS ACCESSIBILITY STANDARDS -- CONTINUED

404. DOORS, DOORWAYS, AND GATES

404.1 GENERAL. DOORS, DOORWAYS, AND GATES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH 404.

EXCEPTION: DOORS, DOORWAYS, AND GATES DESIGNED TO BE OPERATED ONLY BY SECURITY PERSONNEL SHALL NOT BE REQUIRED TO COMPLY WITH 404.2.7, 404.2.8, 404.2.9, 404.3.2 AND 404.3.4 THROUGH 404.3.7.

404.2 MANUAL DOORS, DOORWAYS, AND MANUAL GATES. MANUAL DOORS AND DOORWAYS AND MANUAL GATES INTENDED FOR USER PASSAGE SHALL COMPLY WITH 404.2.

404.2.1 REVOLVING DOORS, GATES, AND TURNSTILES. REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE.

404.2.2 DOUBLE-LEAF DOORS AND GATES. AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY WITH 404.2.3 AND 404.2.4.

404.2.3 CLEAR WIDTH. DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES.

EXCEPTIONS:

1. IN ALTERATIONS, A PROJECTION OF 5/8 INCH MAXIMUM INTO THE REQUIRED CLEAR WIDTH SHALL BE PERMITTED FOR THE LATCH SIDE STOP.

2. DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

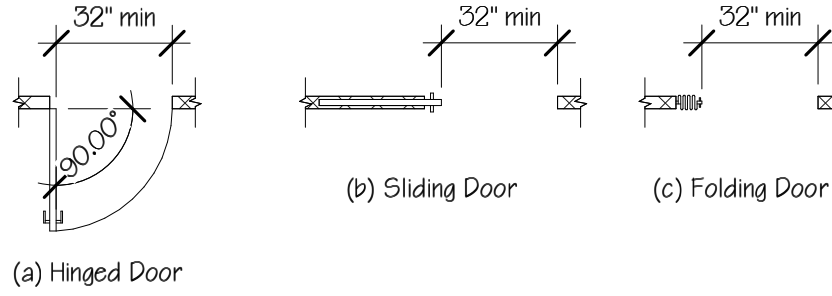


Fig. 404.2.3
Clear Width of Doorways

404.2.4 MANEUVERING CLEARANCES. MINIMUM MANEUVERING CLEARANCES AT DOORS AND GATES SHALL COMPLY WITH 404.2.4. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE.

EXCEPTION: ENTRY DOORS TO HOSPITAL PATIENT ROOMS SHALL NOT BE REQUIRED TO PROVIDE THE CLEARANCE BEYOND THE LATCH SIDE OF THE DOOR.

404.2.4.1 SWINGING DOORS AND GATES. SWINGING DOORS AND GATES SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.4.1.

TYPE OF USE		MINIMUM MANEUVERING CLEARANCE	
APPROACH DIRECTION	DOOR OR GATE SIDE	PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (BEYOND LATCH SIDE UNLESS NOTED)
FROM FRONT	PULL	60 INCHES	18 INCHES
FROM FRONT	PUSH	48 INCHES	0 INCHES ¹
FROM HINGE SIDE	PULL	60 INCHES	36 INCHES
FROM HINGE SIDE	PULL	54 INCHES	42 INCHES
FROM HINGE SIDE	PUSH	42 INCHES ²	22 INCHES ³
FROM HINGE SIDE	PULL	48 INCHES ⁴	24 INCHES
FROM HINGE SIDE	PUSH	42 INCHES ⁴	24 INCHES

1. ADD 12 INCHES IF CLOSER AND LATCH ARE PROVIDED.
2. ADD 6 INCHES IF CLOSER AND LATCH ARE PROVIDED.
3. BEYOND HINGE SIDE.
4. ADD 6 INCHES IF CLOSER IS PROVIDED.

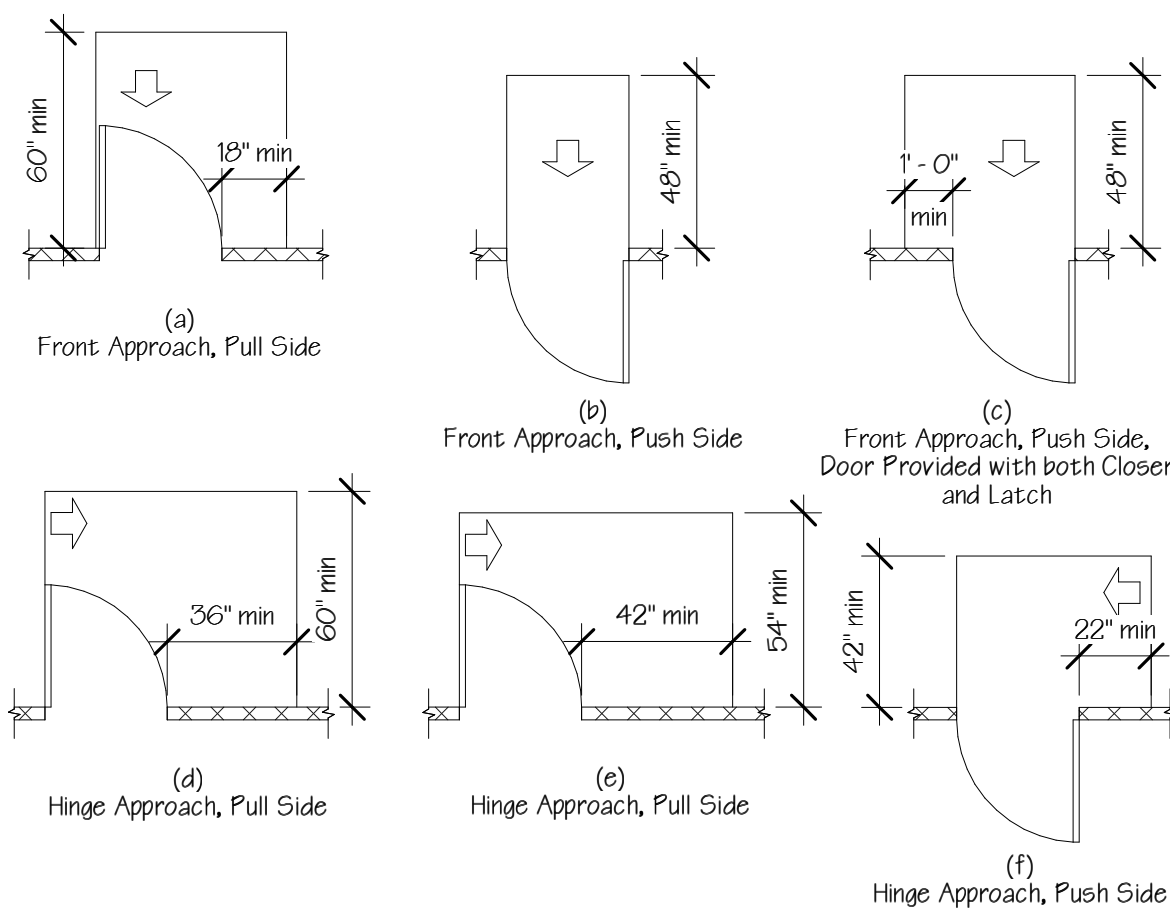


Fig. 404.2.4.1
Maneuvering Clearances at Manual Swinging
Doors and Gates

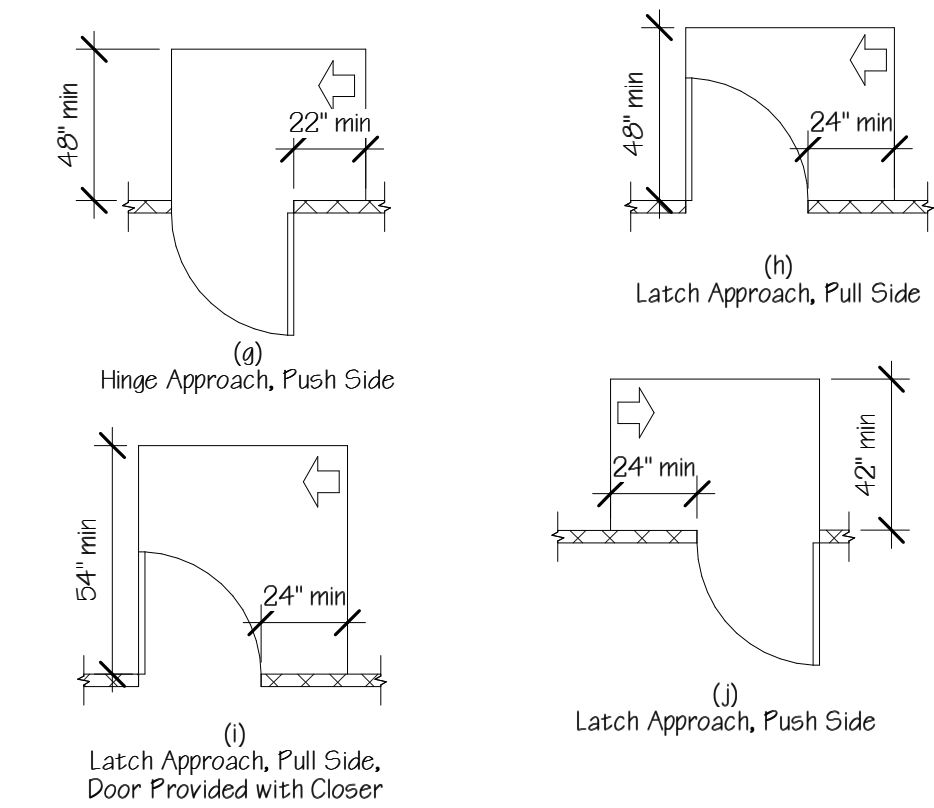


Fig. 404.2.4.1
Maneuvering Clearances at Manual Swinging Doors
and Gates (Continued)

TABLE 404.2.4.2 MANEUVERING CLEARANCES AT
DOORWAYS WITHOUT DOORS OR GATES,
MANUAL SLIDING DOORS, AND MANUAL FOLDING DOORS

APPROACH DIRECTION	MINIMUM MANEUVERING CLEARANCE	
	PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (BEYOND STOP/LATCH SIDE UNLESS NOTED)
FROM FRONT	48 INCHES	0 INCHES
FROM SIDE ¹	42 INCHES	0 INCHES
FROM POCKET/HINGE SIDE	42 INCHES	22 INCHES ²
FROM STOP/LATCH SIDE	42 INCHES	24 INCHES

1. DOORWAY WITH NO DOOR ONLY.
2. BEYOND POCKET/HINGE SIDE.

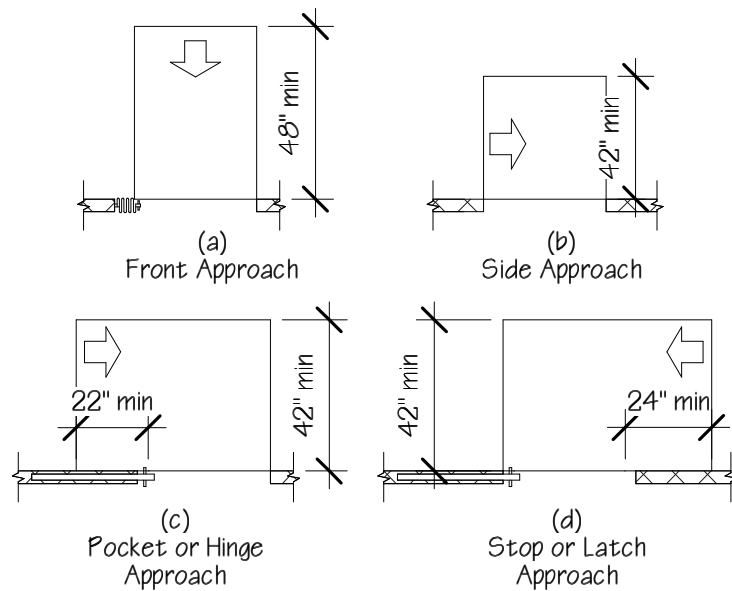


Fig. 404.2.4.2
Maneuvering Clearances at Doorways Without
Doors, Sliding Doors, and Folding Doors

404.2.4.2 DOORWAYS WITHOUT DOORS OR GATES, SLIDING DOORS, AND FOLDING DOORS. DOORWAYS LESS THAN 36 INCHES WIDE WITHOUT DOORS OR GATES, SLIDING DOORS, OR FOLDING DOORS SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.4.2.

404.2.4.3 RECESSED DOORS AND GATES. MANEUVERING CLEARANCES FOR FORWARD APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18 INCHES (455 MM) OF THE LATCH SIDE OF A DOORWAY PROJECTS MORE THAN 8 INCHES (205 MM) BEYOND THE FACE OF THE DOOR, MEASURED PERPENDICULAR TO THE FACE OF THE DOOR OR GATE.

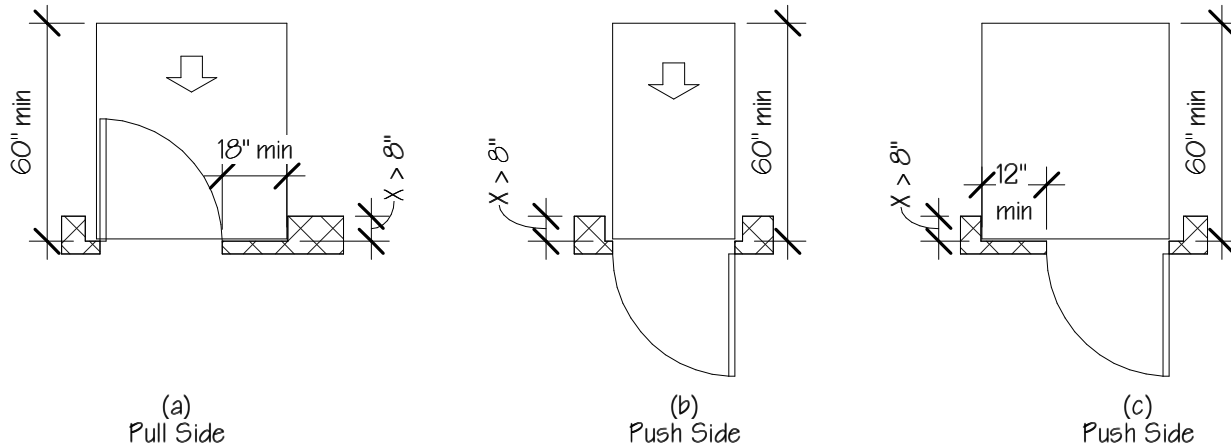


Fig. 404.2.4.3
Maneuvering Clearance at Recessed
Doors and Gates

404.2.4.4 FLOOR OR GROUND SURFACE. FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING CLEARANCES SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED.

- EXCEPTIONS:
1. SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.
2. CHANGES IN LEVEL AT THRESHOLDS COMPLYING WITH 404.2.5 SHALL BE PERMITTED.

404.2.5 THRESHOLDS. THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE 1/2 INCH HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH 302 AND 303. EXCEPTION: EXISTING OR ALTERED THRESHOLDS 3/4 INCH (19 MM) HIGH MAXIMUM THAT HAVE A BEVELED EDGE ON EACH SIDE WITH A SLOPE NOT STEEPER THAN 1:2 SHALL NOT BE REQUIRED TO COMPLY WITH 404.2.5.

404.2.6 DOORS IN SERIES AND GATES IN SERIES. THE DISTANCE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES AND GATES IN SERIES SHALL BE 48 INCHES (1220 MM) MINIMUM PLUS THE WIDTH OF DOORS OR GATES SWINGING INTO THE SPACE.

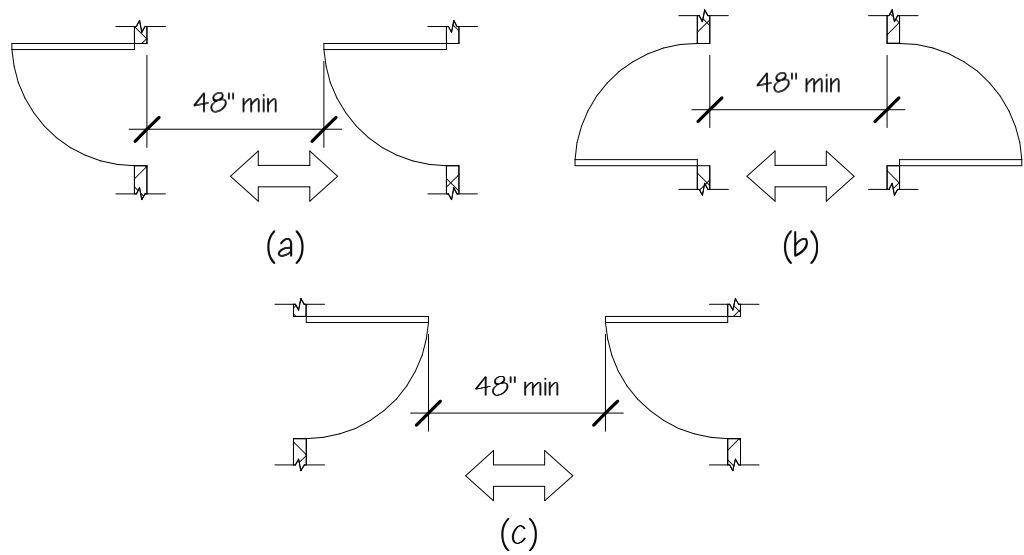


Fig. 404.2.6
Two Doors in a Series

404.2.7 DOOR AND GATE HARDWARE. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH 309.4. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND, WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.

- EXCEPTIONS:
1. EXISTING LOCKS SHALL BE PERMITTED IN ANY LOCATION AT EXISTING GLAZED DOORS WITHOUT STILES, EXISTING OVERHEAD ROLLING DOORS OR GRILLES, AND SIMILAR EXISTING DOORS OR GRILLES THAT ARE DESIGNED WITH LOCKS THAT ARE ACTIVATED ONLY AT THE TOP OR BOTTOM RAIL.
2. ACCESS GATES IN BARRIER WALLS AND FENCES PROTECTING POOLS, SPAS, AND HOT TUBS SHALL BE PERMITTED TO HAVE OPERABLE PARTS OF THE RELEASE OF LATCH ON SELF-LATCHING DEVICES AT 54 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND PROVIDED THE SELF-LATCHING DEVICES ARE NOT ALSO SELF-LOCKING DEVICES AND OPERATED BY MEANS OF A KEY, ELECTRONIC OPENER, OR INTEGRAL COMBINATION LOCK.

404.2.8 CLOSING SPEED. DOOR AND GATE CLOSING SPEED SHALL COMPLY WITH 404.2.8.

404.2.8.1 DOOR CLOSERS AND GATE CLOSERS. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.

404.2.8.2 SPRING HINGES. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 15 SECONDS MINIMUM.

404.2.9 DOOR AND GATE OPENING FORCE. FIRE DOORS SHALL HAVE A MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS:

1. INTERIOR HINGED DOORS AND GATES: 5 POUNDS MAXIMUM.
2. SLIDING OR FOLDING DOORS: 5 POUNDS MAXIMUM. THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION.

404.2.10 DOOR AND GATE SURFACES. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE OTHER. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.

- EXCEPTIONS:
1. SLIDING DOORS SHALL NOT BE REQUIRED TO COMPLY WITH 404.2.10.
2. TEMPERED GLASS DOORS WITHOUT STILES AND HAVING A BOTTOM RAIL OR SHOE WITH THE TOP LEADING EDGE TAPERED AT 60 DEGREES MINIMUM FROM THE HORIZONTAL SHALL NOT BE REQUIRED TO MEET THE 10 INCH BOTTOM SMOOTH SURFACE HEIGHT REQUIREMENT.
3. DOORS AND GATES THAT DO NOT EXTEND TO WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND SHALL NOT BE REQUIRED TO COMPLY WITH 404.2.10.
4. EXISTING DOORS AND GATES WITHOUT SMOOTH SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND SHALL NOT BE REQUIRED TO PROVIDE SMOOTH SURFACES COMPLYING WITH 404.2.10 PROVIDED THAT IF ADDED KICK PLATES ARE INSTALLED, CAVITIES CREATED BY SUCH KICK PLATES ARE CAPPED.

NOTES:

1. SECTIONS OF 2012 TAS NOT PERTAINING TO THIS PROJECT HAVE BEEN OMITTED.

2. FIGURES ARE NOT TO SCALE.

3. ALL DIMENSIONS IN THE 2012 TAS - TEXAS ACCESSIBILITY STANDARDS ARE MEASURED TO FINISHED SURFACES. DIMENSIONS IN THE ACTUAL CONSTRUCTION DRAWINGS ARE MEASURED TO RAW FRAMING.

404.2.11 VISION LIGHTS. DOORS, GATES, AND SIDE LIGHTS ADJACENT TO DOORS OR GATES, CONTAINING ONE OR MORE GLAZED PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED PANEL LOCATED 43 INCHES MAXIMUM ABOVE THE FINISH FLOOR.

EXCEPTION: VISION LIGHTS WITH THE LOWEST PART MORE THAN 66 INCHES (1675 MM) FROM THE FINISH FLOOR OR GROUND SHALL NOT BE REQUIRED TO COMPLY WITH 404.2.11.

404.3 AUTOMATIC AND POWER-ASSISTED DOORS AND GATES. AUTOMATIC DOORS AND AUTOMATIC GATES SHALL COMPLY WITH 404.3. FULL-POWERED AUTOMATIC DOORS SHALL COMPLY WITH ANSI/BHMA A156.10 - LOW-ENERGY AND POWER-ASSISTED DOORS SHALL COMPLY WITH ANSI/BHMA A156.19 (1997 OR 2002 EDITION).

404.3.1 CLEAR WIDTH. DOORWAYS SHALL PROVIDE A CLEAR OPENING OF 32 INCHES (815 MM) MINIMUM IN POWER-ON AND POWER-OFF MODE. THE MINIMUM CLEAR WIDTH FOR AUTOMATIC DOOR SYSTEMS IN A DOORWAY SHALL BE BASED ON THE CLEAR OPENING PROVIDED BY ALL LEAVES IN THE OPEN POSITION.

404.3.2 MANEUVERING CLEARANCE. CLEARANCES AT POWER-ASSISTED DOORS AND GATES SHALL COMPLY WITH 404.2.4. CLEARANCES AT AUTOMATIC DOORS AND GATES WITHOUT STANDBY POWER AND SERVING AN ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH 404.2.4.

EXCEPTION: WHERE AUTOMATIC DOORS AND GATES REMAIN OPEN IN THE POWER-OFF CONDITION, COMPLIANCE WITH 404.2.4 SHALL NOT BE REQUIRED.

404.3.3 THRESHOLDS. THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH 404.2.5.

404.3.4 DOORS IN SERIES AND GATES IN SERIES. DOORS IN SERIES AND GATES IN SERIES SHALL COMPLY WITH 404.2.6.

404.3.5 CONTROLS. MANUALLY OPERATED CONTROLS SHALL COMPLY WITH 309. THE CLEAR FLOOR SPACE ADJACENT TO THE CONTROL SHALL BE LOCATED BEYOND THE ARC OF THE DOOR SWING.

404.3.6 BREAK OUT OPENING. WHERE DOORS AND GATES WITHOUT STANDBY POWER ARE A PART OF A MEANS OF EGRESS, THE CLEAR BREAK OUT OPENING AT SWINGING OR SLIDING DOORS AND GATES SHALL BE 32 INCHES MINIMUM WHEN OPERATED IN EMERGENCY MODE.

EXCEPTION: WHERE MANUAL SWINGING DOORS AND GATES COMPLY WITH 404.2 AND SERVE THE SAME MEANS OF EGRESS COMPLIANCE WITH 404.3.6 SHALL NOT BE REQUIRED.

404.3.7 REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES. REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE.

405. RAMPS

405.1 GENERAL. RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH 405.

EXCEPTION: IN ASSEMBLY AREAS, AISLE RAMPS ADJACENT TO SEATING AND NOT SERVING ELEMENTS REQUIRED TO BE ON AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED TO COMPLY WITH 405.

405.2 SLOPE. RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12.

EXCEPTION: IN EXISTING SITES, BUILDINGS, AND FACILITIES, RAMPS SHALL BE PERMITTED TO HAVE RUNNING SLOPES STEEPER THAN 1:12 COMPLYING WITH TABLE 405.2 WHERE SUCH SLOPES ARE NECESSARY DUE TO SPACE LIMITATIONS.

SLOPE (STEEPER THAN 1:8 NOT PERMITTED)	MAXIMUM RISE
STEEPER THAN 1:10 BUT NOT STEEPER THAN 1:8	3 INCHES
STEEPER THAN 1:12 BUT NOT STEEPER THAN 1:10	6 INCHES

TABLE 405.2
ALLOWABLE RAMP DIMENSIONS FOR CONSTRUCTION IN EXISTING SITES,
BUILDINGS, AND FACILITIES

405.3 CROSS SLOPE. CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48.

405.4 FLOOR OR GROUND SURFACES. FLOOR OR GROUND SURFACES OF RAMP RUNS SHALL COMPLY WITH 302. CHANGES IN LEVEL OTHER THAN THE RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RUNS.

405.5 CLEAR WIDTH. THE CLEAR WIDTH OF A RAMP RUN AND, WHERE HANDRAILS ARE PROVIDED, THE CLEAR WIDTH BETWEEN HANDRAILS SHALL BE 36 INCHES MINIMUM.

EXCEPTION: WITHIN EMPLOYEE WORK AREAS, THE REQUIRED CLEAR WIDTH OF RAMPS THAT ARE A PART OF COMMON USE CIRCULATION PATHS SHALL BE PERMITTED TO BE DECREASED BY WORK AREA EQUIPMENT PROVIDED THAT THE DECREASE IS ESSENTIAL TO THE FUNCTION OF THE WORK BEING PERFORMED.

405.6 RISE. THE RISE FOR ANY RAMP RUN SHALL BE 30 INCHES MAXIMUM.

405.7 LANDINGS. RAMPS SHALL HAVE LANDINGS AT THE TOP AND THE BOTTOM OF EACH RAMP RUN. LANDINGS SHALL COMPLY WITH 405.7.

405.7.1 SLOPE. LANDINGS SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED. EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

405.7.2 WIDTH. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING.

405.7.3 LENGTH. THE LANDING CLEAR LENGTH SHALL BE 60 INCHES LONG MINIMUM.

405.7.4 CHANGE IN DIRECTION. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 60 INCHES MINIMUM BY 60 INCHES MINIMUM.

405.7.5 DOORWAYS. WHERE DOORWAYS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES REQUIRED BY 404.2.4 AND 404.3.2 SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING AREA.

405.8 HANDRAILS. RAMP RUNS WITH A RISE GREATER THAN 6 INCHES SHALL HAVE HANDRAILS COMPLYING WITH 505.

EXCEPTION: WITHIN EMPLOYEE WORK AREAS, HANDRAILS SHALL NOT BE REQUIRED WHERE RAMPS THAT ARE PART OF COMMON USE CIRCULATION PATHS ARE DESIGNED TO PERMIT THE INSTALLATION OF HANDRAILS COMPLYING WITH 505. RAMPS NOT SUBJECT TO THE EXCEPTION TO 405.5 SHALL BE DESIGNED TO MAINTAIN A 36 INCH MINIMUM CLEAR WIDTH WHEN HANDRAILS ARE INSTALLED.

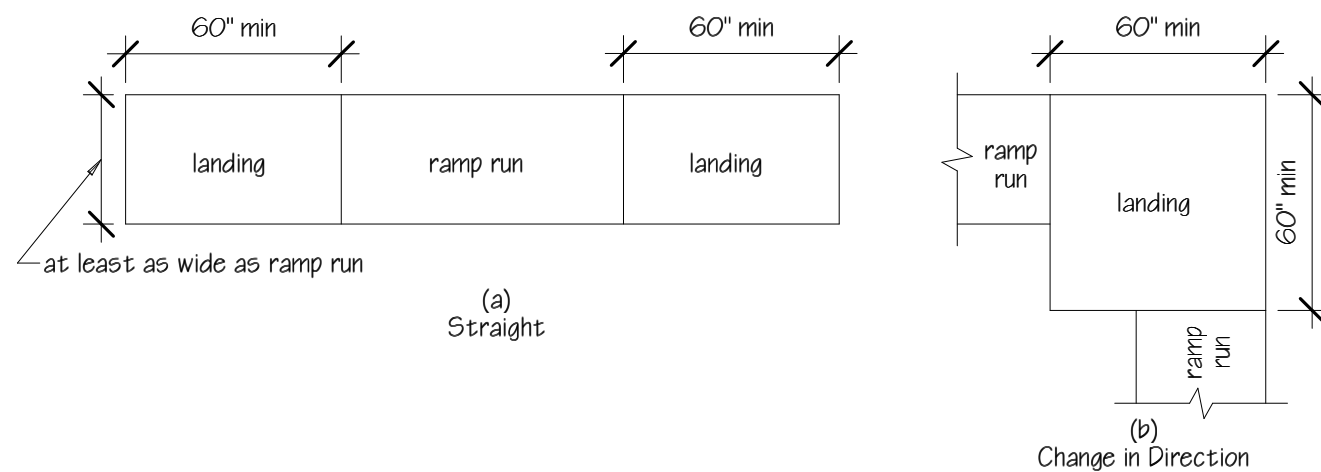
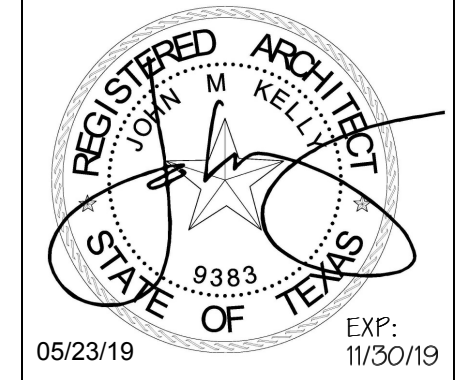


Fig. 405.7 Ramp
Landings

CONTINUED ON NEXT SHEET

DRAWN BY:	DPF, MAR
CHECKED BY:	JMK
PROJECT #:	18-2325



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MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX
78747

No.	Revision	Date
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2012 TAS - TEXAS ACCESSIBILITY STANDARDS -- CONTINUED

405.9 EDGE PROTECTION. EDGE PROTECTION COMPLYING WITH 405.9.1 OR 405.9.2 SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND AT EACH SIDE OF RAMP LANDINGS.

EXCEPTIONS:

1. EDGE PROTECTION SHALL NOT BE REQUIRED ON RAMPs THAT ARE NOT REQUIRED TO HAVE HANDRAILS AND HAVE SIDES COMPLYING WITH 406.3.

2. EDGE PROTECTION SHALL NOT BE REQUIRED ON THE SIDES OF RAMP LANDINGS SERVING AN ADJOINING RAMP RUN OR STAIRWAY.

3. EDGE PROTECTION SHALL NOT BE REQUIRED ON THE SIDES OF RAMP LANDINGS HAVING A VERTICAL DROP-OFF OF 12 INCH MAXIMUM WITHIN 10 INCHES HORIZONTALLY OF THE MINIMUM LANDING AREA SPECIFIED IN 405.7.

405.9.1 EXTENDED FLOOR OR GROUND SURFACE. THE FLOOR OR GROUND SURFACE OF THE RAMP RUN OR LANDING SHALL EXTEND 12 INCHES MINIMUM BEYOND THE INSIDE FACE OF A HANDRAIL COMPLYING WITH 505.

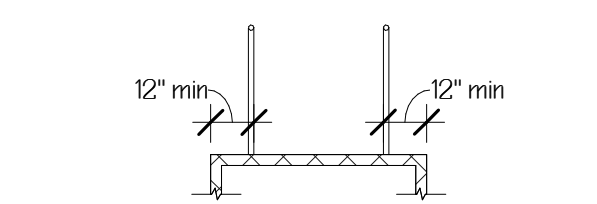


Fig. 405.9.1
Extended Floor or Ground
Surface Edge Protection

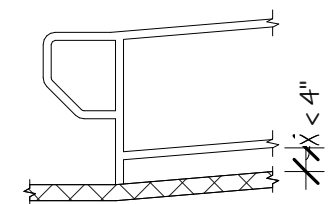


Fig. 405.9.2
Curb or Barrier
Edge Protection

405.9.2 CURB OR BARRIER. A CURB OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4 INCH DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES OF THE FINISH FLOOR OR GROUND SURFACE.

405.10 WET CONDITIONS. LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.

406 CURB RAMPS

406.1 GENERAL. CURB RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH 406, 405.2 THROUGH 405.5, AND 405.10.

406.2 COUNTER SLOPE. COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL.

406.3 SIDES OF CURB RAMPS. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10.



Fig. 406.2
Counter Slope of Surfaces Adjacent to Curb Ramps

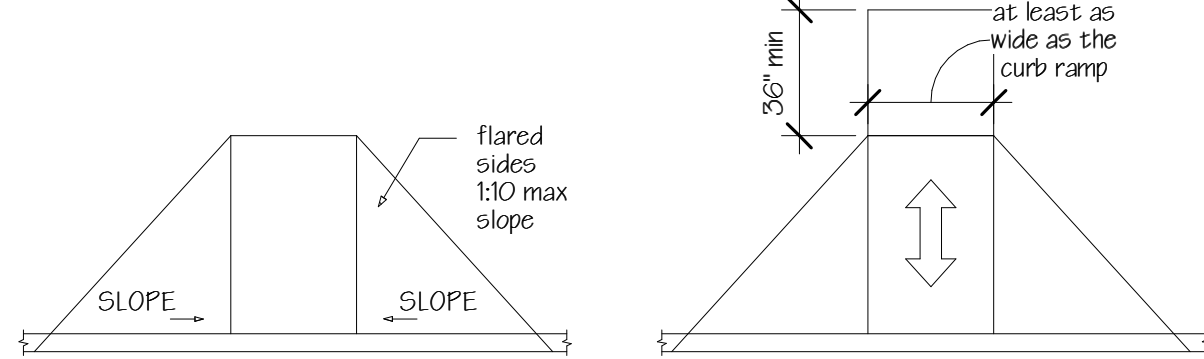


Fig. 406.3
Sides of Curb Ramps

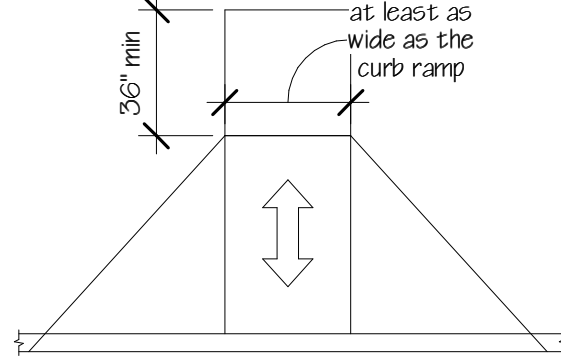


Fig. 406.4
Landings at the Top
of Curb Ramps

406.4 LANDINGS. LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. THE LANDING CLEAR LENGTH SHALL BE 36 INCHES MINIMUM. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING.

EXCEPTION: IN ALTERATIONS, WHERE THERE IS NO LANDING AT THE TOP OF CURB RAMPS, CURB RAMP FLARES SHALL BE PROVIDED AND SHALL NOT BE STEEPER THAN 1:12.

406.5 LOCATION. CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESS AISLES. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.

406.6 DIAGONAL CURB RAMPS. DIAGONAL OR CORNER TYPE CURB RAMPS WITH RETURNED CURBS OR OTHER WELL DEFINED EDGES SHALL HAVE THE EDGES PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE A CLEAR SPACE 48 INCHES MINIMUM OUTSIDE ACTIVE TRAFFIC LANES OF THE ROADWAY. DIAGONAL CURB RAMPS PROVIDED AT MARKED CROSSINGS SHALL PROVIDE THE 48 INCHES MINIMUM CLEAR SPACE WITHIN THE MARKINGS. DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 24 INCHES LONG MINIMUM LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.

406.7 ISLANDS. RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES. EACH CURB RAMP SHALL HAVE A LEVEL AREA 48 INCHES LONG MINIMUM BY 36 INCHES WIDE MINIMUM AT THE TOP OF THE CURB RAMP IN THE PART OF THE ISLAND INTERSECTED BY THE CROSSINGS. EACH 48 INCH MINIMUM BY 36 INCH MINIMUM AREA SHALL BE ORIENTED SO THAT THE 48 INCH MINIMUM LENGTH IS IN THE DIRECTION OF THE RUNNING SLOPE OF THE CURB RAMP IT SERVES. THE 48 INCH MINIMUM BY 36 INCH MINIMUM AREAS AND THE ACCESSIBLE ROUTE SHALL BE PERMITTED TO OVERLAP.

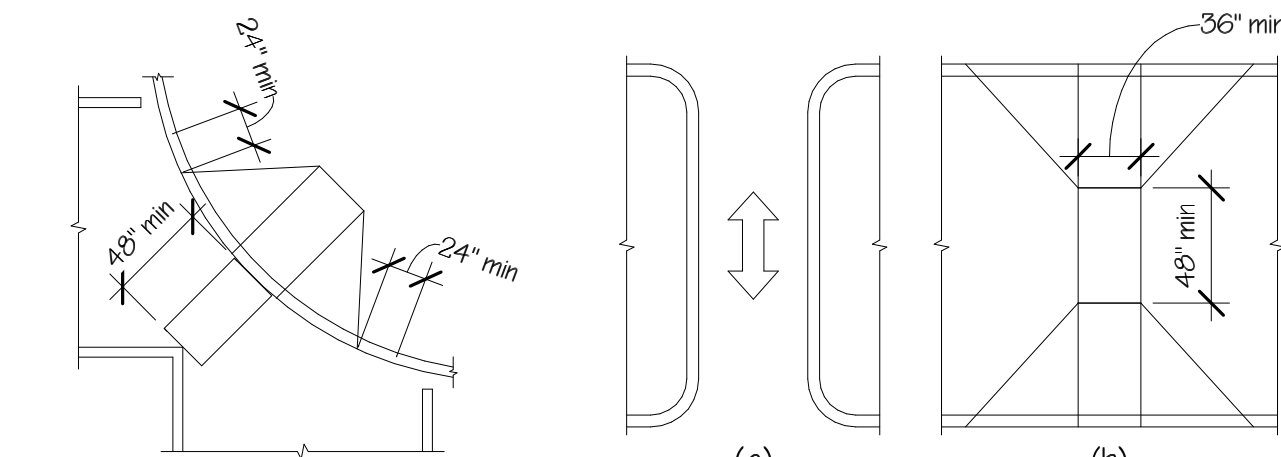


Fig. 406.6
Diagonal or Corner
Type
Curb Ramps

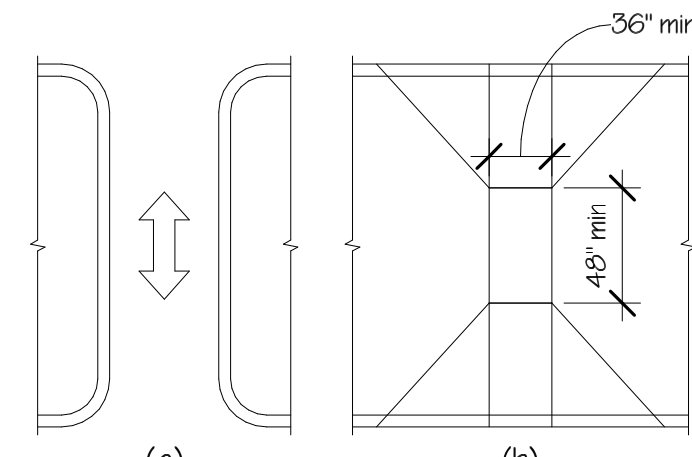


Fig. 406.7
Islands in Crossings

CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS

501 GENERAL

501.1 SCOPE. THE PROVISIONS OF CHAPTER 5 SHALL APPLY WHERE REQUIRED BY CHAPTER 2 OR WHERE REFERENCED BY A REQUIREMENT IN THIS DOCUMENT.

502 PARKING SPACES

502.1 GENERAL. CAR AND VAN PARKING SPACES SHALL COMPLY WITH 502. WHERE PARKING SPACES ARE MARKED WITH LINES, WIDTH MEASUREMENTS OF PARKING SPACES AND ACCESS AISLES SHALL BE MADE FROM THE CENTERLINE OF THE MARKINGS.

EXCEPTION: WHERE PARKING SPACES OR ACCESS AISLES ARE NOT ADJACENT TO ANOTHER PARKING SPACE OR ACCESS AISLE, MEASUREMENTS SHALL BE PERMITTED TO INCLUDE THE FULL WIDTH OF THE LINE DEFINING THE PARKING SPACE OR ACCESS AISLE.

502.2 VEHICLE SPACES. CAR PARKING SPACES SHALL BE 96 INCHES WIDE MINIMUM AND VAN PARKING SPACES SHALL BE 132 INCHES WIDE MINIMUM. SHALL BE MARKED TO DEFINE THE WIDTH, AND SHALL HAVE AN ADJACENT ACCESS AISLE COMPLYING WITH 502.3.

EXCEPTION: VAN PARKING SPACES SHALL BE PERMITTED TO BE 96 INCHES WIDE MINIMUM WHERE THE ACCESS AISLE IS 96 INCHES (2440 MM) WIDE MINIMUM.

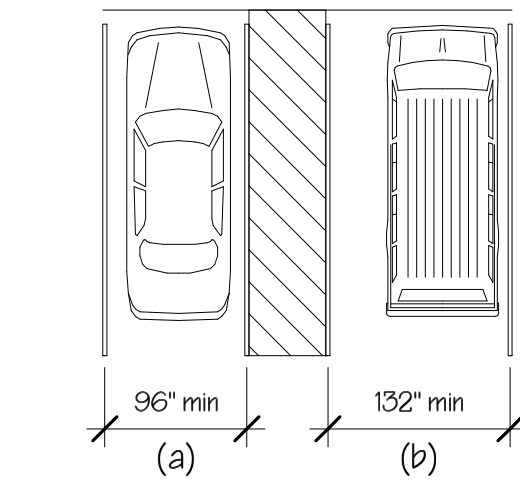


Fig. 502.2
Vehicle Parking
Spaces

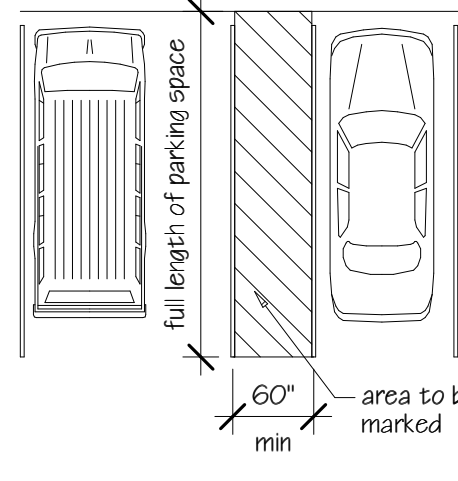


Fig. 502.3
Parking Space
Access Aisle

502.3 ACCESS AISLE. ACCESS AISLES SERVING PARKING SPACES SHALL COMPLY WITH 502.3. ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE. TWO PARKING SPACES SHALL BE PERMITTED TO SHARE A COMMON ACCESS AISLE.

502.3.1 WIDTH. ACCESS AISLES SERVING CAR AND VAN PARKING SPACES SHALL BE 60 INCHES WIDE MINIMUM.

502.3.2 LENGTH. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE PARKING SPACES THEY SERVE.

502.3.3 MARKING. ACCESS AISLES SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THEM.

502.3.4 LOCATION. ACCESS AISLES SHALL NOT OVERLAP THE VEHICULAR WAY. ACCESS AISLES SHALL BE PERMITTED TO BE PLACED ON EITHER SIDE OF THE PARKING SPACE EXCEPT FOR ANGLED VAN PARKING SPACES WHICH SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACES.

502.4 FLOOR OR GROUND SURFACES. PARKING SPACES AND ACCESS AISLES SERVING THEM SHALL COMPLY WITH 302. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE. CHANGES IN LEVEL ARE NOT PERMITTED. EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

502.5 VERTICAL CLEARANCE. PARKING SPACES FOR VANS AND ACCESS AISLES AND VEHICULAR ROUTES SERVING THEM SHALL PROVIDE A VERTICAL CLEARANCE OF 98 INCHES MINIMUM.

502.6 IDENTIFICATION. PARKING SPACE IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 703.7.2.1. SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE." SIGNS SHALL BE 60 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN.

502.7 RELATIONSHIP TO ACCESSIBLE ROUTES. PARKING SPACES AND ACCESS AISLES SHALL BE DESIGNED SO THAT CARS AND VANS, WHEN PARKED, CANNOT OBSTRUCT THE REQUIRED CLEAR WIDTH OF ADJACENT ACCESSIBLE ROUTES.

503 PASSENGER LOADING ZONES

503.1 GENERAL. PASSENGER LOADING ZONES SHALL COMPLY WITH 503.

503.2 VEHICLE PULL-UP SPACE. PASSENGER LOADING ZONES SHALL PROVIDE A VEHICULAR PULL-UP SPACE 96 INCHES WIDE MINIMUM AND 20 FEET LONG MINIMUM.

503.3 ACCESS AISLE. PASSENGER LOADING ZONES SHALL PROVIDE ACCESS AISLES COMPLYING WITH 503 ADJACENT TO THE VEHICLE PULL-UP SPACE. ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE AND SHALL NOT OVERLAP THE VEHICULAR WAY.

503.3.1 WIDTH. ACCESS AISLES SERVING VEHICLE PULL-UP SPACES SHALL BE 60 INCHES WIDE MINIMUM.

503.3.2 LENGTH. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE VEHICLE PULL-UP SPACES THEY SERVE.

503.3.3 MARKING. ACCESS AISLES SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THEM.

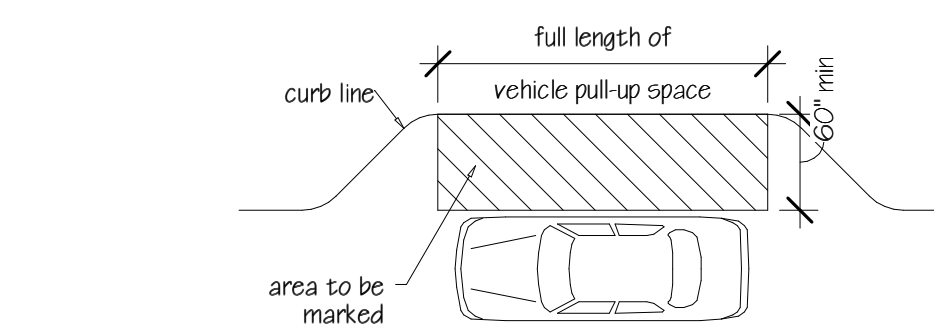


Fig. 503.3 Passenger Loading
Zone Access Aisle

503.4 FLOOR AND GROUND SURFACES. VEHICLE PULL-UP SPACES AND ACCESS AISLES SERVING THEM SHALL COMPLY WITH 302. ACCESS AISLES SHALL BE AT THE SAME LEVEL AS THE VEHICLE PULL-UP SPACE THEY SERVE. CHANGES IN LEVEL ARE NOT PERMITTED.

EXCEPTION: SLOPES NOT STEEPER THAN 1:48 SHALL BE PERMITTED.

503.5 VERTICAL CLEARANCE. VEHICLE PULL-UP SPACES, ACCESS AISLES SERVING THEM, AND A VEHICULAR ROUTE FROM AN ENTRANCE TO THE PASSENGER LOADING ZONE, AND FROM THE PASSENGER LOADING ZONE TO A VEHICULAR EXIT SHALL PROVIDE A VERTICAL CLEARANCE OF 114 INCHES MINIMUM.

504 STAIRWAYS

504.1 GENERAL. STAIRS SHALL COMPLY WITH 504.

504.3 OPEN RISERS. OPEN RISERS ARE NOT PERMITTED.

504.2 TREADS AND RISERS. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS. RISERS SHALL BE 4 INCHES HIGH MINIMUM AND 7 INCHES HIGH MAXIMUM. TREADS SHALL BE 11 INCHES DEEP MINIMUM.

504.4 TREAD SURFACE. STAIR TREADS SHALL COMPLY WITH 302. CHANGES IN LEVEL ARE NOT PERMITTED. EXCEPTION: TREADS SHALL BE PERMITTED TO HAVE A SLOPE NOT STEEPER THAN 1:48.

504.5 NOSINGS. THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 INCH MAXIMUM. NOSING SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30 DEGREES MAXIMUM FROM VERTICAL. THE PERMITTED PROJECTION OF THE NOSING SHALL EXTEND 1 1/2 INCHES MAXIMUM OVER THE TREAD BELOW.

504.6 HANDRAILS. STAIRS SHALL HAVE HANDRAILS COMPLYING WITH 505.

504.7 WET CONDITIONS. STAIR TREADS AND LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.

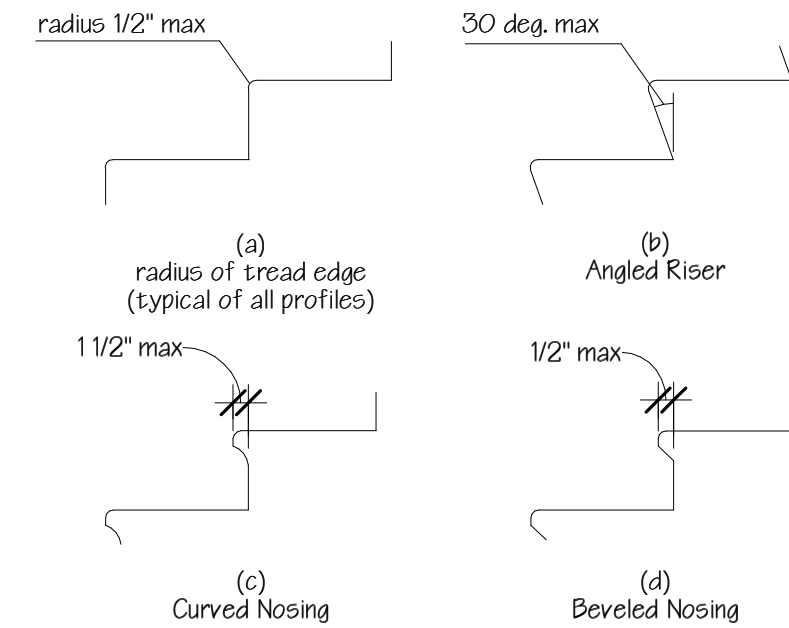


Fig. 504.5 Stair Nosings

505 HANDRAILS

505.1 GENERAL. HANDRAILS PROVIDED ALONG WALKING SURFACES COMPLYING WITH 403, REQUIRED AT RAMPs COMPLYING WITH 405, AND REQUIRED AT STAIRS COMPLYING WITH 504 SHALL COMPLY WITH 505.

505.2 WHERE REQUIRED. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPs. EXCEPTION: IN ASSEMBLY AREAS, HANDRAILS SHALL NOT BE REQUIRED ON BOTH SIDES OF AISLE RAMPs WHERE A HANDRAIL IS PROVIDED AT EITHER SIDE OR WITHIN THE AISLE WIDTH.

505.3 CONTINUITY. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS AND RAMPs SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS. EXCEPTION: IN ASSEMBLY AREAS, HANDRAILS ON RAMPs SHALL NOT BE REQUIRED TO BE CONTINUOUS IN AREAS SERVING SEATING.

505.4 HEIGHT. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES MINIMUM AND 38 INCHES MAXIMUM VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES.

505.5 CLEARANCE. CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL BE 1 1/2 INCHES MINIMUM.

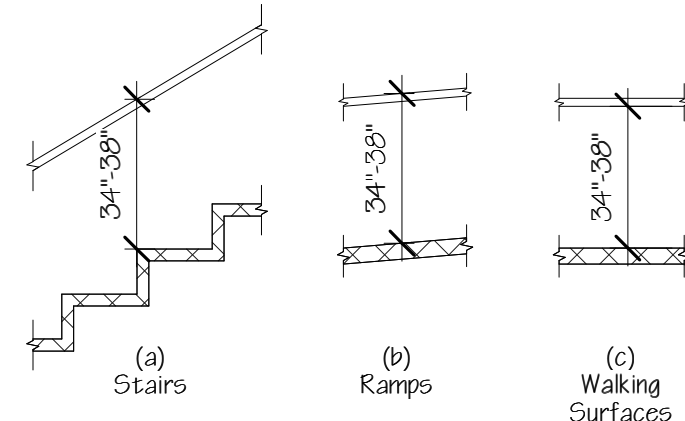


Fig. 505.4 Handrail Height

505.6 GRIPPING SURFACE. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH. WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1 1/2 INCHES MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE.

EXCEPTIONS:

1. WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH SLOPES NOT STEEPER THAN 1:20, THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL BE PERMITTED TO BE OBSTRUCTED ALONG THEIR ENTIRE LENGTH WHERE THEY ARE INTEGRAL TO CRASH RAILS OR BUMPER GUARDS.

2. THE DISTANCE BETWEEN HORIZONTAL PROJECTIONS AND THE BOTTOM OF THE GRIPPING SURFACE SHALL BE PERMITTED TO BE REDUCED BY 1/8 INCH FOR EACH 1/2 INCH OF ADDITIONAL HANDRAIL PERIMETER DIMENSION THAT EXCEEDS 4 INCHES.

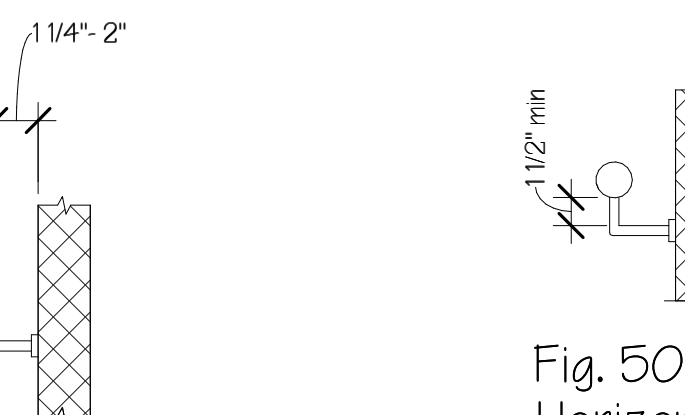


Fig. 505.5
Handrail Clearance

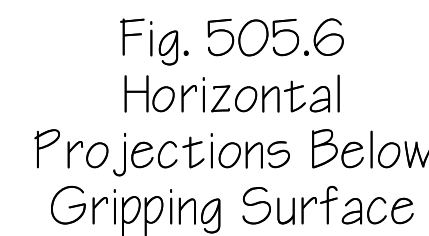


Fig. 505.6
Horizontal
Projections Below
Gripping Surface

505.7 CROSS SECTION. HANDRAIL GRIPPING SURFACES SHALL HAVE A CROSS SECTION COMPLYING WITH 505.7.1 OR 505.7.2.

505.7.1 CIRCULAR CROSS SECTION. HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4 INCHES MINIMUM AND 2 INCHES MAXIMUM.

505.7.2 NON-CIRCULAR CROSS SECTIONS. HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 6 1/4 INCHES MAXIMUM, AND A CROSS-SECTION DIMENSION OF 2 1/4 INCHES MAXIMUM.

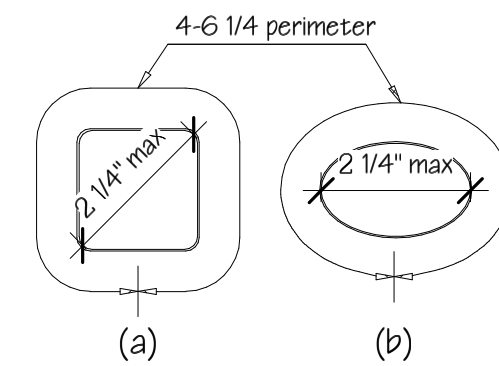


Fig. 505.7.2 Handrail
Non-circular Cross Section

505.8 SURFACES. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.

505.9 FITTINGS. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

505.10 HANDRAIL EXTENSIONS. HANDRAIL GRIPPING SURFACES SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS AND RAMP RUNS IN ACCORDANCE WITH 505.10.

EXCEPTIONS:

1. EXTENSIONS SHALL NOT BE REQUIRED FOR CONTINUOUS HANDRAILS AT THE INSIDE TURN OF SWITCHBACK OR DOGLEG STAIRS AND RAMPs.

2. IN ASSEMBLY AREAS, EXTENSIONS SHALL NOT BE REQUIRED FOR RAMP HANDRAILS IN AISLES SERVING SEATING WHERE THE HANDRAILS ARE DISCONTINUOUS TO PROVIDE ACCESS TO SEATING AND TO PERMIT CROSSOVERS WITHIN AISLES.

3. IN ALTERATIONS, FULL EXTENSIONS OF HANDRAILS SHALL NOT BE REQUIRED WHERE SUCH EXTENSIONS WOULD BE HAZARDOUS DUE TO PLAN CONFIGURATION.

505.10.1 TOP AND BOTTOM EXTENSION AT RAMPs. RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.

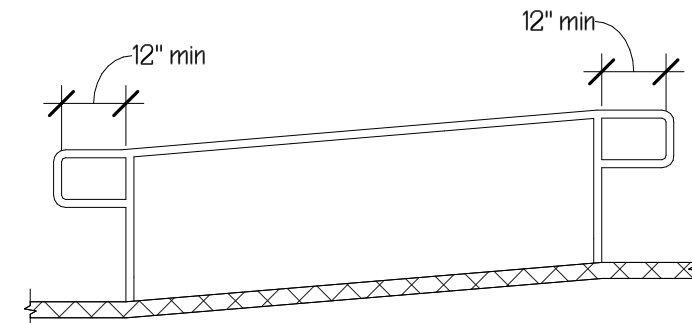


Fig. 505.10.1
Top and Bottom Handrail Extensions
at Ramps

505.10.2 TOP EXTENSION AT STAIRS. AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305 MM) MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

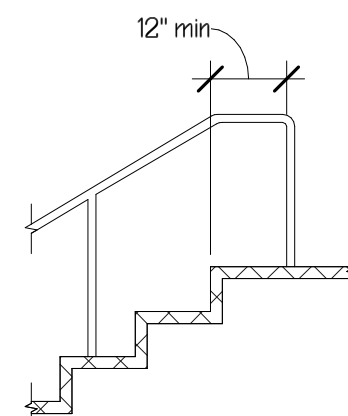


Fig. 505.10.2 Top
Handrail Extensions at Stairs

505.10.3 BOTTOM EXTENSION AT STAIRS. AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE AT LEAST EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. EXTENSION SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

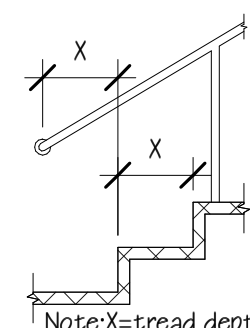


Fig. 505.10.3
Bottom Handrail Extensions at Stairs

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DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

05/23/19

EXP: 11/30/19

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MOONLIGHT GARDEN
8901 NUCKOLIS CROSSING RD, AUSTIN TX
78747

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2012 TAS - TEXAS ACCESSIBILITY STANDARDS -- CONTINUED

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

601 GENERAL

601.1 SCOPE. THE PROVISIONS OF CHAPTER 6 SHALL APPLY WHERE REQUIRED BY CHAPTER 2 OR WHERE REFERENCED BY A REQUIREMENT IN THIS DOCUMENT.

602 DRINKING FOUNTAINS

602.1 GENERAL. DRINKING FOUNTAINS SHALL COMPLY WITH 307 AND 602.

602.2 CLEAR FLOOR SPACE. UNITS SHALL HAVE A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 POSITIONED FOR A FORWARD APPROACH AND CENTERED ON THE UNIT. KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED.

EXCEPTION: A PARALLEL APPROACH COMPLYING WITH 305 SHALL BE PERMITTED AT UNITS FOR CHILDRENS USE WHERE THE SPOUT IS 30 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND AND IS 5 1/2 INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS.

602.3 OPERABLE PARTS. OPERABLE PARTS SHALL COMPLY WITH 309.

602.4 SPOUT HEIGHT. SPOUT OUTLETS SHALL BE 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

602.5 SPOUT LOCATION. THE SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS.

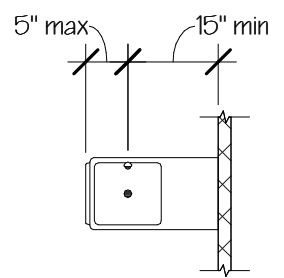


Fig. 602.5
Drinking Fountain Spout Location

602.6 WATER FLOW. THE SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES HIGH MINIMUM AND SHALL BE LOCATED 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE LOCATED LESS THAN 3 INCHES OF THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE SPOUTS ARE LOCATED BETWEEN 3 INCHES AND 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM.

602.7 DRINKING FOUNTAINS FOR STANDING PERSONS. SPOUT OUTLETS OF DRINKING FOUNTAINS FOR STANDING PERSONS SHALL BE 30 INCHES MINIMUM AND 43 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

603 TOILET AND BATHING ROOMS

603.1 GENERAL. TOILET AND BATHING ROOMS SHALL COMPLY WITH 603.

603.2 CLEARANCES. CLEARANCES SHALL COMPLY WITH 603.2.

603.2.1 TURNING SPACE. TURNING SPACE COMPLYING WITH 304 SHALL BE PROVIDED WITHIN THE ROOM.

603.2.2 OVERLAP. REQUIRED CLEAR FLOOR SPACES, CLEARANCE AT FIXTURES, AND TURNING SPACE SHALL BE PERMITTED TO OVERLAP.

603.2.3 DOOR SWING. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS SHALL BE PERMITTED TO SWING INTO THE REQUIRED TURNING SPACE.

EXCEPTIONS:

1. DOORS TO A TOILET ROOM OR BATHING ROOM FOR A SINGLE OCCUPANT ACCESSED ONLY THROUGH A PRIVATE OFFICE AND NOT FOR COMMON USE OR PUBLIC USE SHALL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE PROVIDED THE SWING OF THE DOOR CAN BE REVERSED TO COMPLY WITH 603.2.3.

2. WHERE THE TOILET ROOM OR BATHING ROOM IS FOR INDIVIDUAL USE AND A CLEAR FLOOR SPACE COMPLYING WITH 305.3 IS PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING, DOORS SHALL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE.

603.3 MIRRORS. MIRRORS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. MIRRORS NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

603.4 COAT HOOKS AND SHELVES. COAT HOOKS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN 308. SHELVES SHALL BE LOCATED 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR.

604 WATER CLOSETS AND TOILET COMPARTMENTS

604.1 GENERAL. WATER CLOSETS AND TOILET COMPARTMENTS SHALL COMPLY WITH 604.2 THROUGH 604.8.

EXCEPTION: WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDRENS USE SHALL BE PERMITTED TO COMPLY WITH 604.9.

604.2 LOCATION. THE WATER CLOSET SHALL BE POSITIONED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES MINIMUM TO 18 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION, EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT SPECIFIED IN 604.8.2. WATER CLOSETS SHALL BE ARRANGED FOR A LEFT-HAND OR RIGHT-HAND APPROACH.

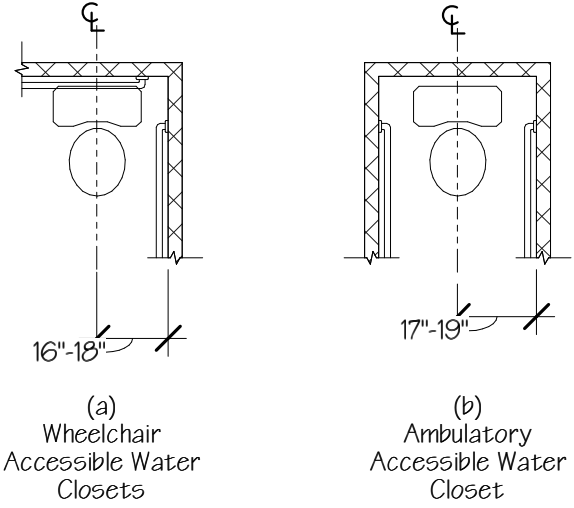


Fig. 604.2 Water Closet Location

604.3 CLEARANCE. CLEARANCES AROUND WATER CLOSETS AND IN TOILET COMPARTMENTS SHALL COMPLY WITH 604.3.

604.3.1 SIZE. CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE REAR WALL.

604.3.2 OVERLAP. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNITS, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AND CLEARANCES REQUIRED AT OTHER FIXTURES, AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE.

EXCEPTION: IN RESIDENTIAL DWELLING UNITS, A LAVATORY COMPLYING WITH 606 SHALL BE PERMITTED ON THE REAR WALL 18 INCHES MINIMUM FROM THE WATER CLOSET CENTERLINE WHERE THE CLEARANCE AT THE WATER CLOSET IS 66 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE REAR WALL.

604.4 SEATS. THE SEAT HEIGHT OF A WATER CLOSET ABOVE THE FINISH FLOOR SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.

604.5 GRAB BARS. GRAB BARS FOR WATER CLOSETS SHALL COMPLY WITH 609. GRAB BARS SHALL BE PROVIDED ON THE SIDE WALL CLOSEST TO THE WATER CLOSET AND ON THE REAR WALL.

EXCEPTIONS:

1. A WATER CLOSET IN A TOILET ROOM FOR A SINGLE OCCUPANT ACCESSED ONLY THROUGH A PRIVATE OFFICE AND NOT FOR COMMON USE OR PUBLIC USE SHALL NOT BE REQUIRED TO COMPLY WITH 604.4.

2. IN RESIDENTIAL DWELLING UNITS, THE HEIGHT OF WATER CLOSETS SHALL BE PERMITTED TO BE 15 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE SEAT.

604.5.1 SIDE WALL. THE SIDE WALL GRAB BAR SHALL BE 42 INCHES LONG MINIMUM, LOCATED 12 INCHES MAXIMUM FROM THE REAR WALL AND EXTENDING 54 INCHES MINIMUM FROM THE REAR WALL.

EXCEPTIONS:

1. GRAB BARS SHALL NOT BE REQUIRED TO BE INSTALLED IN A TOILET ROOM FOR A SINGLE OCCUPANT ACCESSED ONLY THROUGH A PRIVATE OFFICE AND NOT FOR COMMON USE OR PUBLIC USE PROVIDED THAT REINFORCEMENT HAS BEEN INSTALLED IN WALLS AND LOCATED 50 AS TO PERMIT THE INSTALLATION OF GRAB BARS COMPLYING WITH 604.5.

2. IN RESIDENTIAL DWELLING UNITS, GRAB BARS SHALL NOT BE REQUIRED TO BE INSTALLED IN TOILET OR BATHROOMS PROVIDED THAT REINFORCEMENT HAS BEEN INSTALLED IN WALLS AND LOCATED 50 AS TO PERMIT THE INSTALLATION OF GRAB BARS COMPLYING WITH 604.5.

3. IN DETENTION OR CORRECTION FACILITIES, GRAB BARS SHALL NOT BE REQUIRED TO BE INSTALLED IN HOUSING OR HOLDING CELLS THAT ARE SPECIALLY DESIGNED WITHOUT PROTRUSIONS FOR PURPOSES OF SUICIDE PREVENTION.

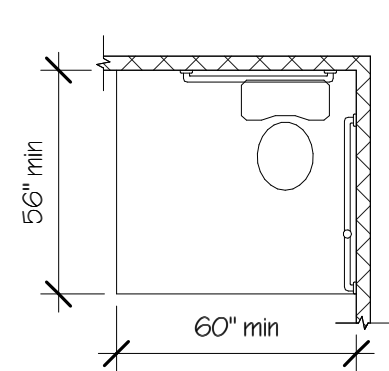


Fig. 604.3.1
Size of Clearance for Water Closet

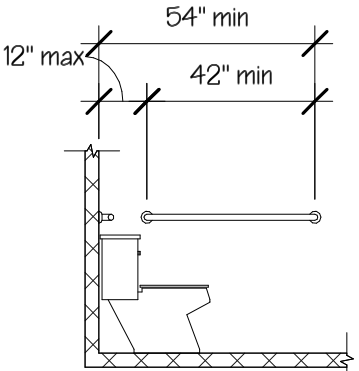


Fig. 604.5.1
Side Wall Grab Bar at Water Closets

604.5.2 REAR WALL. THE REAR WALL GRAB BAR SHALL BE 36 INCHES (915 MM) LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES (305 MM) MINIMUM ON ONE SIDE AND 24 INCHES MINIMUM ON THE OTHER SIDE.

EXCEPTIONS:

1. THE REAR GRAB BAR SHALL BE PERMITTED TO BE 24 INCHES LONG MINIMUM, CENTERED ON THE WATER CLOSET, WHERE WALL SPACE DOES NOT PERMIT A LENGTH OF 36 INCHES MINIMUM DUE TO THE LOCATION OF A RECESSED FIXTURE ADJACENT TO THE WATER CLOSET.

2. WHERE AN ADMINISTRATIVE AUTHORITY REQUIRES FLUSH CONTROLS FOR FLUSH VALVES TO BE LOCATED IN A POSITION THAT CONFLICTS WITH THE LOCATION OF THE REAR GRAB BAR, THEN THE REAR GRAB BAR SHALL BE PERMITTED TO BE SPLIT OR SHIFTED TO THE OPEN SIDE OF THE TOILET AREA.

604.6 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH 309. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS COMPLYING WITH 604.8.2.

604.7 DISPENSERS. TOILET PAPER DISPENSERS SHALL COMPLY WITH 309.4 AND SHALL BE 7 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.

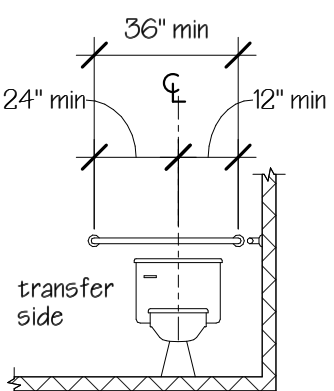


Fig. 604.5.2
Rear Wall Grab Bar for Water Closet

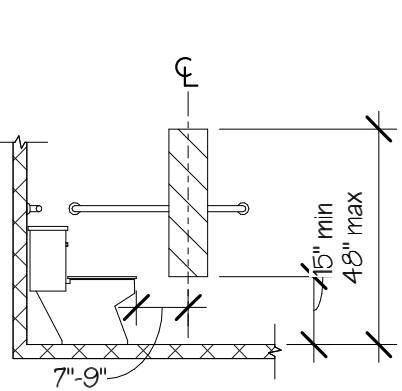


Fig. 604.7
Dispenser Outlet Location

604.8 TOILET COMPARTMENTS. WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS SHALL MEET THE REQUIREMENTS OF 604.8.1 AND 604.8.3. COMPARTMENTS CONTAINING MORE THAN ONE PLUMBING FIXTURE SHALL COMPLY WITH 603. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH 604.8.2 AND 604.8.3.

604.8.1 WHEELCHAIR ACCESSIBLE COMPARTMENTS. WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH 604.8.1.

604.8.1.1 SIZE. WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL BE 60 INCHES WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND 56 INCHES DEEP MINIMUM FOR WALL HUNG WATER CLOSETS AND 59 INCHES DEEP MINIMUM FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL. WHEELCHAIR ACCESSIBLE COMPARTMENTS FOR CHILDRENS USE SHALL BE 60 INCHES WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND 59 INCHES DEEP MINIMUM FOR WALL HUNG AND FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL.

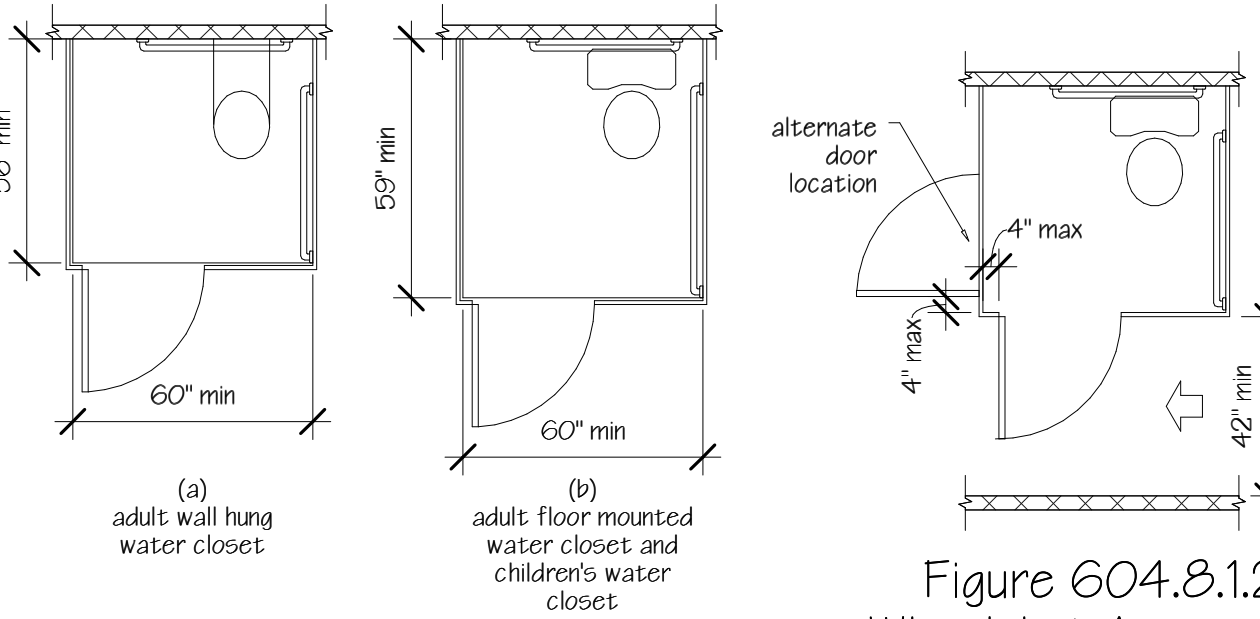


Figure 604.8.1.2
Wheelchair Accessible Toilet Compartment Doors

Fig. 604.8.1.1
Size of Wheelchair Accessible Toilet Compartment

604.8.1.2 DOORS. TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH 404 EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 42 INCHES MINIMUM. DOORS SHALL BE LOCATED IN THE FRONT PARTITION OR IN THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE FRONT PARTITION, THE DOOR OPENING SHALL BE 4 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE SIDE WALL OR PARTITION, THE DOOR OPENING SHALL BE 4 INCHES MAXIMUM FROM THE FRONT PARTITION. THE DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH 404.2.7 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA.

604.8.1.3 APPROACH. COMPARTMENTS SHALL BE ARRANGED FOR LEFT-HAND OR RIGHT-HAND APPROACH TO THE WATER CLOSET.

604.8.1.4 TOE CLEARANCE. THE FRONT PARTITION AND AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF 9 INCHES MINIMUM ABOVE THE FINISH FLOOR AND 6 INCHES DEEP MINIMUM BEYOND THE COMPARTMENT-SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS. COMPARTMENTS FOR CHILDRENS USE SHALL PROVIDE A TOE CLEARANCE OF 12 INCHES MINIMUM ABOVE THE FINISH FLOOR.

EXCEPTION: TOE CLEARANCE AT THE FRONT PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 62 INCHES DEEP WITH A WALL-HUNG WATER CLOSET OR 65 INCHES DEEP WITH A FLOOR MOUNTED WATER CLOSET. TOE CLEARANCE AT THE SIDE PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 66 INCHES WIDE. TOE CLEARANCE AT THE FRONT PARTITION IS NOT REQUIRED IN A COMPARTMENT FOR CHILDRENS USE THAT IS GREATER THAN 65 INCHES DEEP.

604.8.1.5 GRAB BARS. GRAB BARS SHALL COMPLY WITH 609. A SIDE-WALL GRAB BAR COMPLYING WITH 604.5.1 SHALL BE PROVIDED AND SHALL BE LOCATED ON THE WALL CLOSEST TO THE WATER CLOSET. IN ADDITION, A REAR-WALL GRAB BAR COMPLYING WITH 604.5.2 SHALL BE PROVIDED.

604.8.3 COAT HOOKS AND SHELVES. COAT HOOKS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN 308. SHELVES SHALL BE LOCATED 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR.

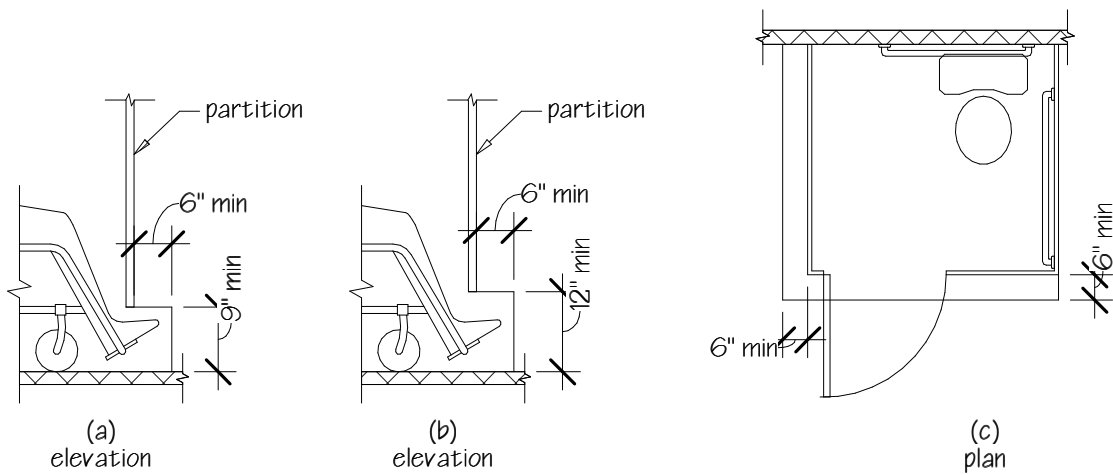


Figure 604.8.1.4
Wheelchair Accessible Toilet Compartment Toe Clearance

605 URINALS

605.1 GENERAL. URINALS SHALL COMPLY WITH 605.

605.2 HEIGHT AND DEPTH. URINALS SHALL BE THE STALL-TYPE OR THE WALL-HUNG TYPE WITH THE RIM 17 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. URINALS SHALL BE 13 1/2 INCHES DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE.

605.3 CLEAR FLOOR SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 POSITIONED FOR FORWARD APPROACH SHALL BE PROVIDED.

605.4 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH 309.

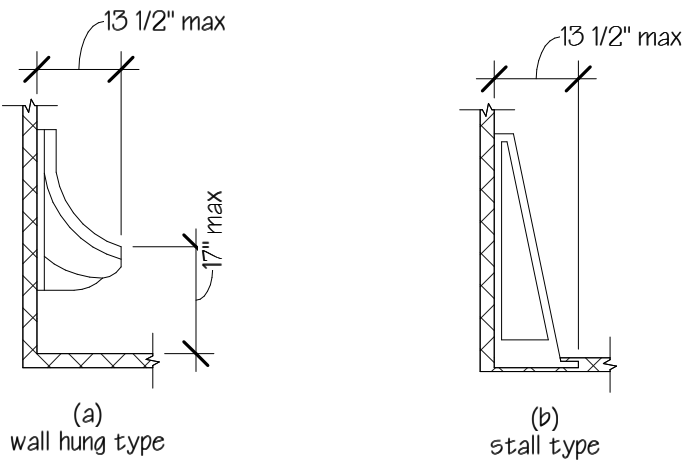


Figure 605.2
Height and Depth of Urinals

606 LAVATORIES AND SINKS

606.1 GENERAL. LAVATORIES AND SINKS SHALL COMPLY WITH 606.

606.2 CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305, POSITIONED FOR A FORWARD APPROACH, AND KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED.

EXCEPTIONS:

1. A PARALLEL APPROACH COMPLYING WITH 305 SHALL BE PERMITTED TO A KITCHEN SINK IN A SPACE WHERE A COOK TOP OR CONVENTIONAL RANGE IS NOT PROVIDED AND TO WET BARS.

2. A LAVATORY IN A TOILET ROOM OR BATHING FACILITY FOR A SINGLE OCCUPANT ACCESSED ONLY THROUGH A PRIVATE OFFICE AND NOT FOR COMMON USE OR PUBLIC USE SHALL NOT BE REQUIRED TO PROVIDE KNEE AND TOE CLEARANCE COMPLYING WITH 306.

3. IN RESIDENTIAL DWELLING UNITS, CABINETRY SHALL BE PERMITTED UNDER LAVATORIES AND KITCHEN SINKS PROVIDED THAT ALL OF THE FOLLOWING CONDITIONS ARE MET:

(A) THE CABINETRY CAN BE REMOVED WITHOUT REMOVAL OR REPLACEMENT OF THE FIXTURE;

(B) THE FINISH FLOOR EXTENDS UNDER THE CABINETRY; AND

(C) THE WALLS BEHIND AND SURROUNDING THE CABINETRY ARE FINISHED.

4. OMITTED

5. OMITTED

6. THE DIP OF THE OVERFLOW SHALL NOT BE CONSIDERED IN DETERMINING KNEE AND TOE CLEARANCES.

7. NO MORE THAN ONE BOWL OF A MULTI-BOWL SINK SHALL BE REQUIRED TO PROVIDE KNEE AND TOE CLEARANCE COMPLYING WITH 306.

606.3 HEIGHT. LAVATORIES AND SINKS SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

EXCEPTIONS:

1. A LAVATORY IN A TOILET OR BATHING FACILITY FOR A SINGLE OCCUPANT ACCESSED ONLY THROUGH A PRIVATE OFFICE AND NOT FOR COMMON USE OR PUBLIC USE SHALL NOT BE REQUIRED TO COMPLY WITH 606.3.

2. IN RESIDENTIAL DWELLING UNIT KITCHENS, SINKS THAT ARE ADJUSTABLE TO VARIABLE HEIGHTS, 29 INCHES MINIMUM AND 36 INCHES MAXIMUM, SHALL BE PERMITTED WHERE ROUGH-IN PLUMBING PERMITS CONNECTIONS OF SUPPLY AND DRAIN PIPES FOR SINKS MOUNTED AT THE HEIGHT OF 29 INCHES.

NOTES:
1. SECTIONS OF 2012 TAS NOT PERTAINING TO THIS PROJECT HAVE BEEN OMITTED.
2. FIGURES ARE NOT TO SCALE.
3. ALL DIMENSIONS IN THE 2012 TAS -TEXAS ACCESSIBILITY STANDARDS ARE MEASURED TO FINISHED SURFACES. DIMENSIONS IN THE ACTUAL CONSTRUCTION DRAWINGS ARE MEASURED TO RAW FRAMING.

606.4 FAUCETS. CONTROLS FOR FAUCETS SHALL COMPLY WITH 309. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.

606.5 EXPOSED PIPES AND SURFACES. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

609 GRAB BARS

609.1 GENERAL. GRAB BARS IN TOILET FACILITIES AND BATHING FACILITIES SHALL COMPLY WITH 609.

609.2 CROSS SECTION. GRAB BARS SHALL HAVE A CROSS SECTION COMPLYING WITH 609.2.1 OR 609.2.2.

609.2.1 CIRCULAR CROSS SECTION. GRAB BARS WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4 INCHES MINIMUM AND 2 INCHES MAXIMUM.

609.2.2 NON-CIRCULAR CROSS SECTION. GRAB BARS WITH NON-CIRCULAR CROSS SECTIONS SHALL HAVE A CROSS SECTION DIMENSION OF 2 INCHES MAXIMUM AND A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 4.8 INCHES MAXIMUM.

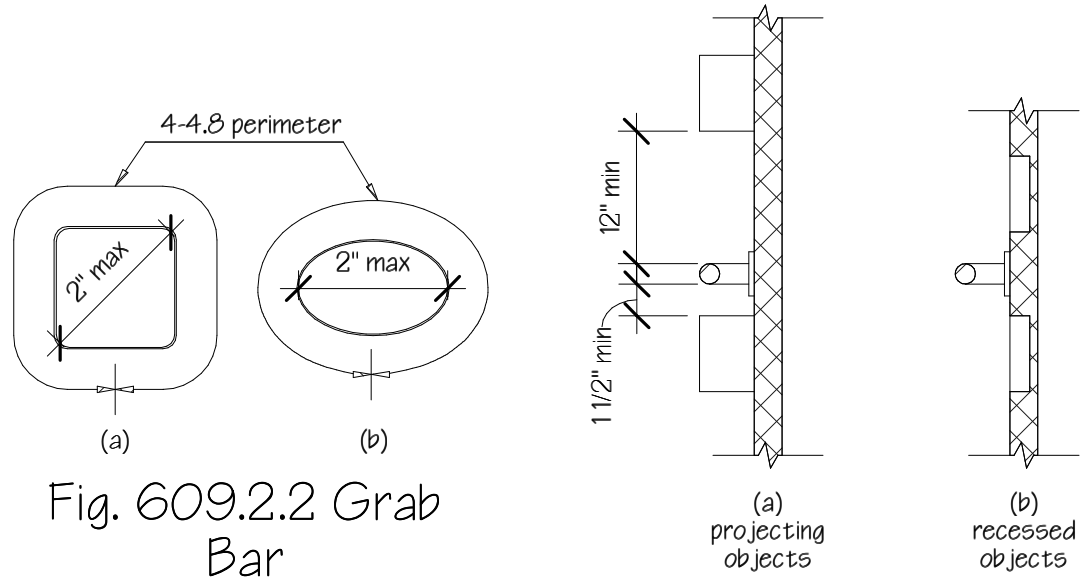


Fig. 609.2.2 Grab Bar Non-circular Cross Section

Figure 609.3
Spacing of Grab Bars

609.3 SPACING. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2 INCHES. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1 1/2 INCHES MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM.

EXCEPTION: THE SPACE BETWEEN THE GRAB BARS AND SHOWER CONTROLS, SHOWER FITTINGS, AND OTHER GRAB BARS ABOVE SHALL BE PERMITTED TO BE 1 1/2 INCHES MINIMUM.

609.4 POSITION OF GRAB BARS. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE, EXCEPT THAT AT WATER CLOSETS FOR CHILDRENS USE COMPLYING WITH 604.9, GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION 19 INCHES MINIMUM AND 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE. THE HEIGHT OF THE LOWER GRAB BAR ON THE BACK WALL OF A BATHTUB SHALL COMPLY WITH 607.4.1.1 OR 607.4.2.1.

609.5 SURFACE HAZARDS. GRAB BARS AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.

609.6 FITTINGS. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

609.7 INSTALLATION. GRAB BARS SHALL BE INSTALLED IN ANY MANNER THAT PROVIDES A GRIPPING SURFACE AT THE SPECIFIED LOCATIONS AND THAT DOES NOT OBSTRUCT THE REQUIRED CLEAR FLOOR SPACE.

609.8 STRUCTURAL STRENGTH. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

701 GENERAL

701.1 SCOPE. THE PROVISIONS OF CHAPTER 7 SHALL APPLY WHERE REQUIRED BY CHAPTER 2 OR WHERE REFERENCED BY A REQUIREMENT IN THIS DOCUMENT.

702 FIRE ALARM SYSTEMS

702.1 GENERAL. FIRE ALARM SYSTEMS SHALL HAVE PERMANENTLY INSTALLED AUDIBLE AND VISIBLE ALARMS COMPLYING WITH NFPA 72 (1999 OR 2002 EDITION), EXCEPT THAT THE MAXIMUM ALLOWABLE SOUND LEVEL OF AUDIBLE NOTIFICATION APPLIANCES COMPLYING WITH SECTION 4-3.2.1 OF NFPA 72 (1999 EDITION) SHALL HAVE A SOUND LEVEL NO MORE THAN 10 DB AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE. IN ADDITION, ALARMS IN GUEST ROOMS REQUIRED TO PROVIDE COMMUNICATION FEATURES SHALL COMPLY WITH SECTIONS 4-3 AND 4-4 OF NFPA 72 (1999 EDITION) OR SECTIONS 7.4 AND 7.5 OF NFPA 72 (2002 EDITION).

EXCEPTION: FIRE ALARM SYSTEMS IN MEDICAL CARE FACILITIES SHALL BE PERMITTED TO BE PROVIDED IN ACCORDANCE WITH INDUSTRY PRACTICE.

703 SIGNS

703.1 GENERAL. SIGNS SHALL COMPLY WITH 703. WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED.

703.2 RAISED CHARACTERS. RAISED CHARACTERS SHALL COMPLY WITH 703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH 703.3. RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDANCE WITH 703.4.

703.2.1 DEPTH. RAISED CHARACTERS SHALL BE 1/32 INCH MINIMUM ABOVE THEIR BACKGROUND.

703.2.2 CASE. CHARACTERS SHALL BE UPPERCASE.

703.2.3 STYLE. CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.

703.2.4 CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".

703.2.5 CHARACTER HEIGHT. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH MINIMUM AND 2 INCHES MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".

EXCEPTION: WHERE SEPARATE RAISED AND VISUAL CHARACTERS WITH THE SAME INFORMATION ARE PROVIDED, RAISED CHARACTER HEIGHT SHALL BE PERMITTED TO BE 1/2 INCH MINIMUM.

TABLE 703.3.1 BRAILLE DIMENSIONS	
MEASUREMENT RANGE	MIN/MAX INCHES
DOT BASE DIAMETER	0.059/0.063
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL	0.090/0.100
DISTANCE BETWEEN CORRESPONDING DOTS IN THE SAME CELL	0.241/0.300
DOT HEIGHT	0.251/0.37
DISTANCE BETWEEN CORRESPONDING DOTS ONE CELL DIRECTLY BELOW	0.359/0.400

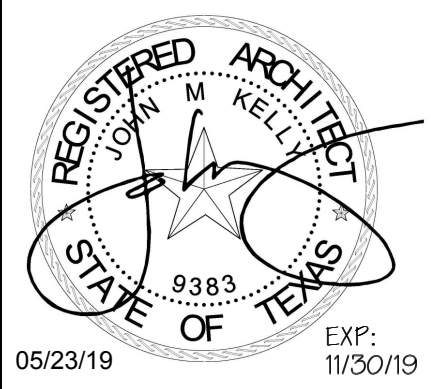
1. MEASURED CENTER TO CENTER

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PROJECT #: 18-2325



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2012 TAS - TEXAS ACCESSIBILITY STANDARDS -- CONTINUED

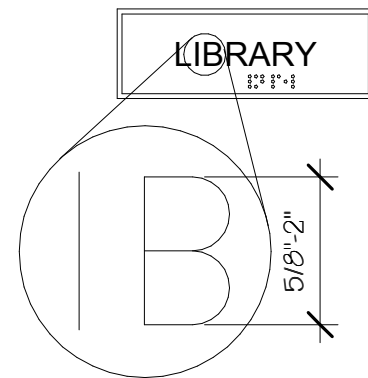


Fig. 703.2.5
Height of Raised Character

703.2.6 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.

703.2.7 CHARACTER SPACING. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECT ANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH MINIMUM.

703.2.8 LINE SPACING. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT.

703.3 BRAILLE. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH 703.3 AND 703.4. 703.3.1 DIMENSIONS AND CAPITALIZATION. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.

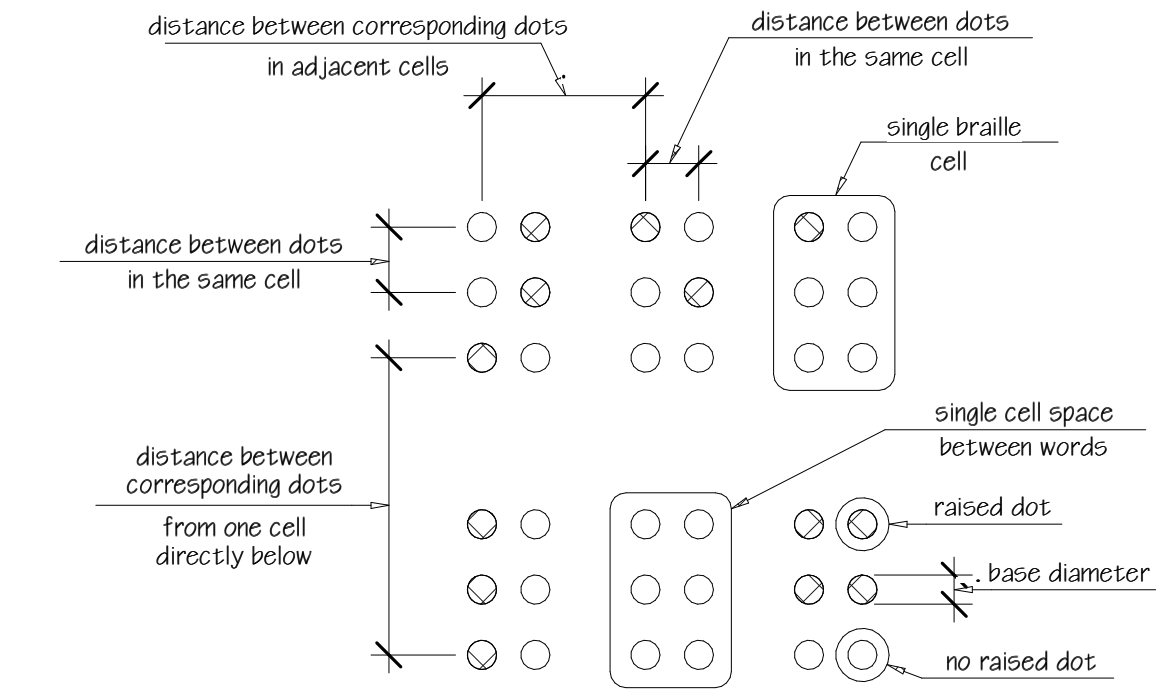


Fig. 703.3.1
Braille Measurement

703.3.2 POSITION. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.

EXCEPTION: BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED 3/16 INCH MINIMUM AND SHALL BE LOCATED EITHER DIRECTLY BELOW OR ADJACENT TO THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS.

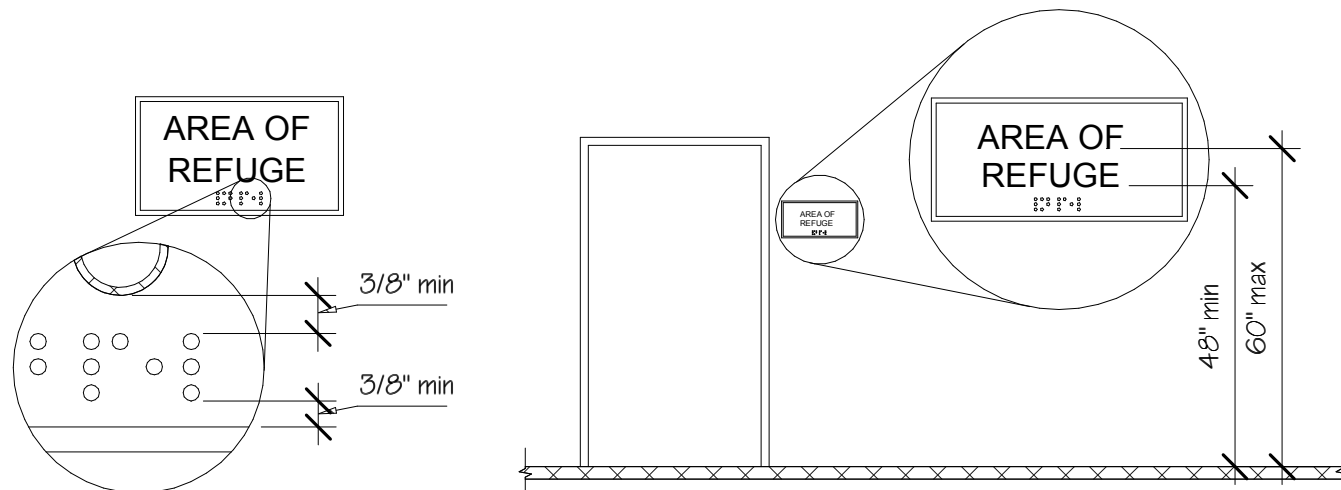


Fig. 703.4.1
Height of Tactile Characters
above Finish Floor or Ground

Fig. 703.3.2
Position of Braille

703.4 INSTALLATION HEIGHT AND LOCATION. SIGNS WITH TACTILE CHARACTERS SHALL COMPLY WITH 703.4.

703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.

EXCEPTION: TACTILE CHARACTERS FOR ELEVATOR CAR CONTROLS SHALL NOT BE REQUIRED TO COMPLY WITH 703.4.1.

703.4.2 LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

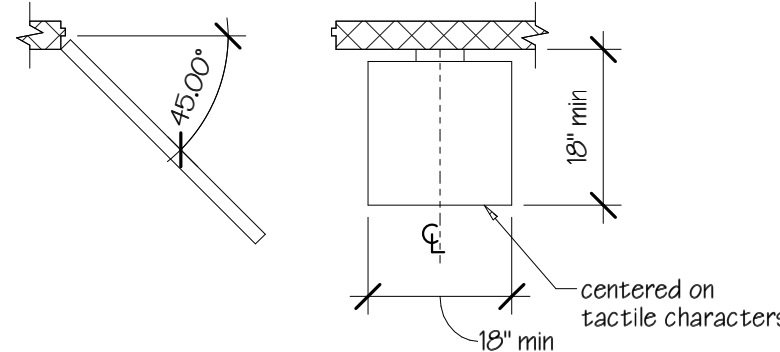


Fig. 703.4.2
Location of Tactile Signs at Doors

703.5 VISUAL CHARACTERS. VISUAL CHARACTERS SHALL COMPLY WITH 703.5.

EXCEPTION: WHERE VISUAL CHARACTERS COMPLY WITH 703.2 AND ARE ACCOMPANIED BY BRAILLE COMPLYING WITH 703.3, THEY SHALL NOT BE REQUIRED TO COMPLY WITH 703.5.2 THROUGH 703.5.9.

703.5.1 FINISH AND CONTRAST. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

703.5.2 CASE. CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A COMBINATION OF BOTH.

703.5.3 STYLE. CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.

703.5.4 CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".

703.5.5 CHARACTER HEIGHT. MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "I".

TABLE 703.5.5 - VISUAL CHARACTER HEIGHT

HEIGHT ABOVE FLOOR TO BASELINE OF CHARACTER	HORIZONTAL VIEWING DISTANCE	MINIMUM CHARACTER HEIGHT
40 INCHES TO LESS THAN OR EQUAL TO 70 INCHES	LESS THAN 72 INCHES	5/8 INCH
	72 INCHES AND GREATER	5/8 INCH, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 72 INCHES
GREATER THAN 70 INCHES TO LESS THAN OR EQUAL TO 120 INCHES	LESS THAN 180 INCHES	2 INCHES
	180 INCHES AND GREATER	2 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 180 INCHES
GREATER THAN 120 INCHES	LESS THAN 21 FEET	3 INCHES
	21 FEET AND GREATER	3 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 21 FEET

703.5.6 HEIGHT FROM FINISH FLOOR OR GROUND. VISUAL CHARACTERS SHALL BE 40 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

EXCEPTION: VISUAL CHARACTERS INDICATING ELEVATOR CAR CONTROLS SHALL NOT BE REQUIRED TO COMPLY WITH 703.5.6.

703.5.7 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 30 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.

703.5.8 CHARACTER SPACING. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT CHARACTERS, EXCLUDING WORD SPACES. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 30 PERCENT MAXIMUM OF CHARACTER HEIGHT.

703.5.9 LINE SPACING. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT.

703.6 PICTOGRAMS. PICTOGRAMS SHALL COMPLY WITH 703.6.

703.6.1 PICTOGRAM FIELD. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.

703.6.2 FINISH AND CONTRAST. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD.

703.6.3 TEXT DESCRIPTORS. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTORS SHALL COMPLY WITH 703.2, 703.3 AND 703.4.

703.7 SYMBOLS OF ACCESSIBILITY. SYMBOLS OF ACCESSIBILITY SHALL COMPLY WITH 703.7.

703.7.1 FINISH AND CONTRAST. SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND.

703.7.2 SYMBOLS.

703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL COMPLY WITH FIGURE 703.7.2.1.

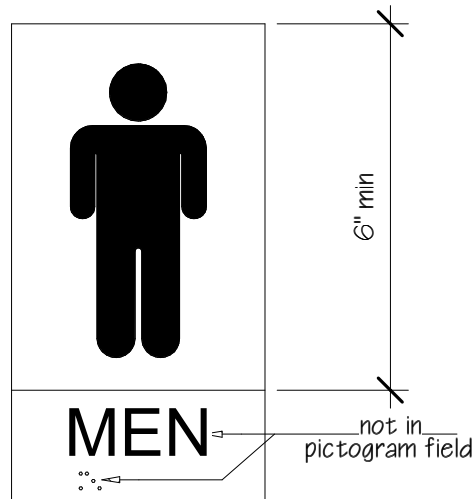


Fig. 703.6.1
Pictogram Field



Fig. 703.7.2.1
International Symbol of
Accessibility

705 DETECTABLE WARNINGS

705.1 GENERAL. DETECTABLE WARNINGS SHALL CONSIST OF A SURFACE OF TRUNCATED DOMES AND SHALL COMPLY WITH 705.

705.1.1 DOME SIZE. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A BASE DIAMETER OF 0.9 INCH MINIMUM AND 1.4 INCHES MAXIMUM, A TOP DIAMETER OF 50 PERCENT OF THE BASE DIAMETER MINIMUM TO 65 PERCENT OF THE BASE DIAMETER MAXIMUM, AND A HEIGHT OF 0.2 INCH.

705.1.2 DOME SPACING. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A CENTER-TO-CENTER SPACING OF 16 INCHES MINIMUM AND 2.4 INCHES MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65 INCH MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID.

705.1.3 CONTRAST. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

705.2 PLATFORM EDGES. DETECTABLE WARNING SURFACES AT PLATFORM BOARDING EDGES SHALL BE 24 INCHES WIDE AND SHALL EXTEND THE FULL LENGTH OF THE PUBLIC USE AREAS OF THE PLATFORM.

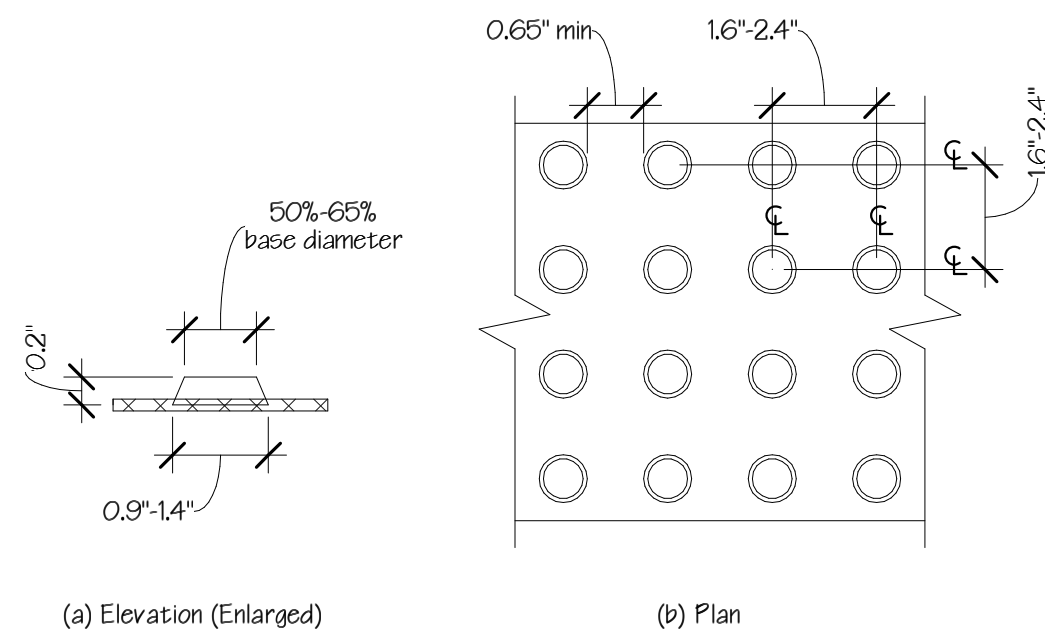


Fig. 705.1
Size and Spacing of Truncated Domes

CHAPTER 8: SPECIAL ROOMS, SPACES AND ELEMENTS

801 GENERAL

801.1 SCOPE. THE PROVISIONS OF CHAPTER 8 SHALL APPLY WHERE REQUIRED BY CHAPTER 2 OR WHERE REFERENCED BY A REQUIREMENT IN THIS DOCUMENT.

804 KITCHENS AND KITCHENETTES

804.1 GENERAL. KITCHENS AND KITCHENETTES SHALL COMPLY WITH 804.

804.2 CLEARANCE. WHERE A PASS THROUGH KITCHEN IS PROVIDED, CLEARANCES SHALL COMPLY WITH EXCEPTION: SPACES THAT DO NOT PROVIDE A COOKTOP OR CONVENTIONAL RANGE SHALL NOT BE REQUIRED TO COMPLY WITH 804.2.

804.2.1 PASS THROUGH KITCHEN. IN PASS THROUGH KITCHENS WHERE COUNTERS, APPLIANCES OR CABINETS ARE ON TWO OPPOSING SIDES, OR WHERE COUNTERS, APPLIANCES OR CABINETS ARE OPPOSITE A PARALLEL WALL, CLEARANCE BETWEEN ALL OPPOSING BASE CABINETS, COUNTER TOPS, APPLIANCES, OR WALLS WITHIN KITCHEN WORK AREAS SHALL BE 40 INCHES MINIMUM. PASS THROUGH KITCHENS SHALL HAVE TWO ENTRIES.

804.2.2 U-SHAPED. IN U-SHAPED KITCHENS ENCLOSED ON THREE CONTIGUOUS SIDES, CLEARANCE BETWEEN ALL OPPOSING BASE CABINETS, COUNTER TOPS, APPLIANCES, OR WALLS WITHIN KITCHEN WORK AREAS SHALL BE 60 INCHES MINIMUM.

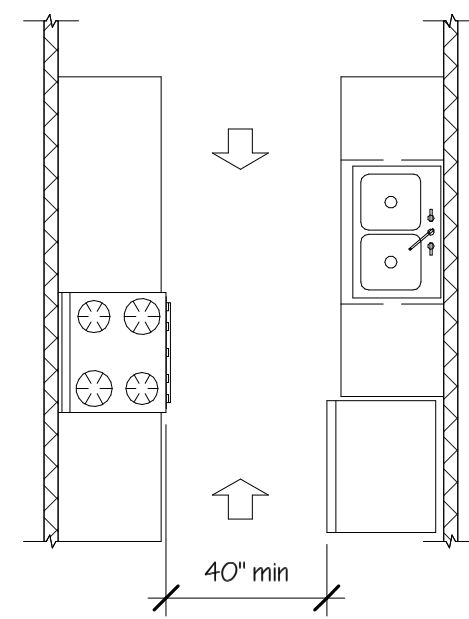


Fig. 804.2.1
Pass-through Kitchens

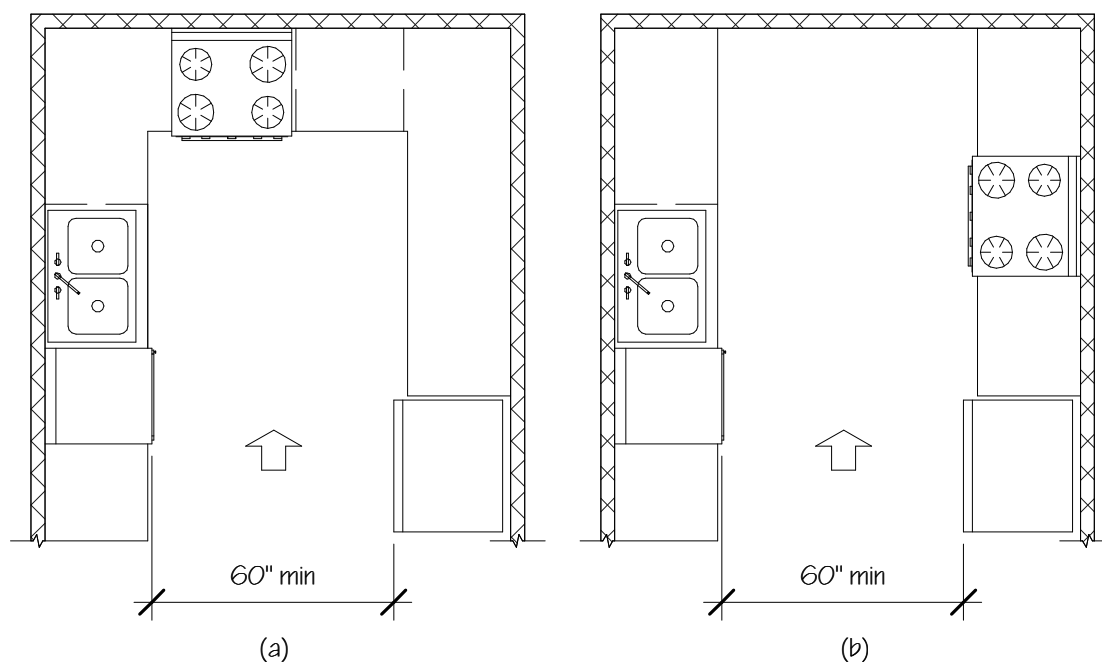


Fig. 804.2.2 U-Shaped Kitchens

804.3 KITCHEN WORK SURFACE. IN RESIDENTIAL DWELLING UNITS REQUIRED TO COMPLY WITH 809, AT LEAST ONE 30 INCHES WIDE MINIMUM SECTION OF COUNTER SHALL PROVIDE A KITCHEN WORK SURFACE THAT COMPLIES WITH 804.3.

804.3.1 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305 SHALL BE PROVIDED FOR A FORWARD APPROACH SHALL BE PROVIDED. THE CLEAR FLOOR OR GROUND SPACE SHALL BE CENTERED ON THE KITCHEN WORK SURFACE AND SHALL PROVIDE KNEE AND TOE CLEARANCE COMPLYING WITH 306.

EXCEPTION: CABINETRY SHALL BE PERMITTED UNDER THE KITCHEN WORK SURFACE PROVIDED THAT ALL OF THE FOLLOWING CONDITIONS ARE MET:

- (A) THE CABINETRY CAN BE REMOVED WITHOUT REMOVAL OR REPLACEMENT OF THE KITCHEN WORK SURFACE;
- (B) THE FINISH FLOOR EXTENDS UNDER THE CABINETRY; AND
- (C) THE WALLS BEHIND AND SURROUNDING THE CABINETRY ARE FINISHED.

804.3.2 HEIGHT. THE KITCHEN WORK SURFACE SHALL BE 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. EXCEPTION: A COUNTER THAT IS ADJUSTABLE TO PROVIDE A KITCHEN WORK SURFACE AT VARIABLE HEIGHTS, 29 INCHES MINIMUM AND 36 INCHES MAXIMUM SHALL BE PERMITTED.

804.3.3 EXPOSED SURFACES. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER THE WORK SURFACE COUNTERS.

804.4 SINKS. SINKS SHALL COMPLY WITH 606.

804.5 STORAGE. AT LEAST 50 PERCENT OF SHELF SPACE IN STORAGE FACILITIES SHALL COMPLY WITH 811.

804.6 APPLIANCES. WHERE PROVIDED, KITCHEN APPLIANCES SHALL COMPLY WITH 804.6.

804.6.1 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE PROVIDED AT EACH KITCHEN APPLIANCE. CLEAR FLOOR OR GROUND SPACES SHALL BE PERMITTED TO OVERLAP.

804.6.2 OPERABLE PARTS. ALL APPLIANCE CONTROLS SHALL COMPLY WITH 309.

EXCEPTIONS:
1. APPLIANCE DOORS AND DOOR LATCHING DEVICES SHALL NOT BE REQUIRED TO COMPLY WITH 309.4.

2. BOTTOM-HINGED APPLIANCE DOORS, WHEN IN THE OPEN POSITION, SHALL NOT BE REQUIRED TO COMPLY WITH 309.3.

804.6.3 DISHWASHER. CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED ADJACENT TO THE DISHWASHER DOOR. THE DISHWASHER DOOR IN THE OPEN POSITION, SHALL NOT OBSTRUCT THE CLEAR FLOOR OR GROUND SPACE FOR THE DISHWASHER OR THE SINK.

804.6.4 RANGE OR COOKTOP. WHERE A FORWARD APPROACH IS PROVIDED, THE CLEAR FLOOR OR GROUND SPACE SHALL PROVIDE KNEE AND TOE CLEARANCE COMPLYING WITH 306. WHERE KNEE AND TOE SPACE IS PROVIDED, THE UNDERSIDE OF THE RANGE OR COOKTOP SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PREVENT BURNS, ABRASIONS, OR ELECTRICAL SHOCK. THE LOCATION OF CONTROLS SHALL NOT REQUIRE REACHING ACROSS BURNERS.

804.6.5 OVEN. OVENS SHALL COMPLY WITH 804.6.5.

804.6.5.1 SIDE-HINGED DOOR OVENS. SIDE-HINGED DOOR OVENS SHALL HAVE THE WORK SURFACE REQUIRED BY 804.3 POSITIONED ADJACENT TO THE LATCH SIDE OF THE OVEN DOOR.

804.6.5.2 BOTTOM-HINGED DOOR OVENS. BOTTOM-HINGED DOOR OVENS SHALL HAVE THE WORK SURFACE REQUIRED BY 804.3 POSITIONED ADJACENT TO ONE SIDE OF THE DOOR.

804.6.5.3 CONTROLS. OVENS SHALL HAVE CONTROLS ON FRONT PANELS.

804.6.6 REFRIGERATOR/FREEZER. COMBINATION REFRIGERATORS AND FREEZERS SHALL HAVE AT LEAST 50 PERCENT OF THE FREEZER SPACE 54 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. THE CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR A PARALLEL APPROACH TO THE SPACE DEDICATED TO A REFRIGERATOR/FREEZER WITH THE CENTERLINE OF THE CLEAR FLOOR OR GROUND SPACE OFFSET 24 INCHES MAXIMUM FROM THE CENTERLINE OF THE DEDICATED SPACE.

CHAPTER 9: BUILT-IN ELEMENTS

901 GENERAL

901.1 SCOPE. THE PROVISIONS OF CHAPTER 9 SHALL APPLY WHERE REQUIRED BY CHAPTER 2 OR WHERE REFERENCED BY A REQUIREMENT IN THIS DOCUMENT.

902 DINING SURFACES AND WORK SURFACES

902.1 GENERAL. DINING SURFACES AND WORK SURFACES SHALL COMPLY WITH 902.2 AND 902.3.

EXCEPTION: DINING SURFACES AND WORK SURFACES FOR CHILDRENS USE SHALL BE PERMITTED TO COMPLY WITH 902.4.

902.2 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305 POSITIONED FOR A FORWARD APPROACH SHALL BE PROVIDED. KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED.

902.3 HEIGHT. THE TOPS OF DINING SURFACES AND WORK SURFACES SHALL BE 28 INCHES MINIMUM AND 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

902.4 DINING SURFACES AND WORK SURFACES FOR CHILDREN'S USE. ACCESSIBLE DINING SURFACES AND WORK SURFACES FOR CHILDREN'S USE SHALL COMPLY WITH 902.4.

EXCEPTION: DINING SURFACES AND WORK SURFACES THAT ARE USED PRIMARILY BY CHILDREN 5 YEARS AND YOUNGER SHALL NOT BE REQUIRED TO COMPLY WITH 902.4 WHERE A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 POSITIONED FOR A PARALLEL APPROACH IS PROVIDED.

902.4.1 CLEAR FLOOR OR GROUND SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305 POSITIONED FOR FORWARD APPROACH SHALL BE PROVIDED. KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED. EXCEPT THAT KNEE CLEARANCE 24 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SHALL BE PERMITTED.

902.4.2 HEIGHT. THE TOPS OF TABLES AND COUNTERS SHALL BE 26 INCHES (660 MM) MINIMUM AND 30 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

904 CHECK-OUT AISLES AND SALES AND SERVICE COUNTERS

904.1 GENERAL. CHECK-OUT AISLES AND SALES AND SERVICE COUNTERS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF 904.

904.2 APPROACH. ALL PORTIONS OF COUNTERS REQUIRED TO COMPLY WITH 904 SHALL BE LOCATED ADJACENT TO A WALKING SURFACE COMPLYING WITH 403.

904.3 CHECK-OUT AISLES. CHECK-OUT AISLES SHALL COMPLY WITH 904.3.

904.3.1 AISLE. AISLES SHALL COMPLY WITH 403.

904.3.2 COUNTER. THE COUNTER SURFACE HEIGHT SHALL BE 38 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. THE TOP OF THE COUNTER EDGE PROTECTION SHALL BE 2 INCHES MAXIMUM ABOVE THE TOP OF THE COUNTER SURFACE ON THE AISLE SIDE OF THE CHECK-OUT COUNTER.

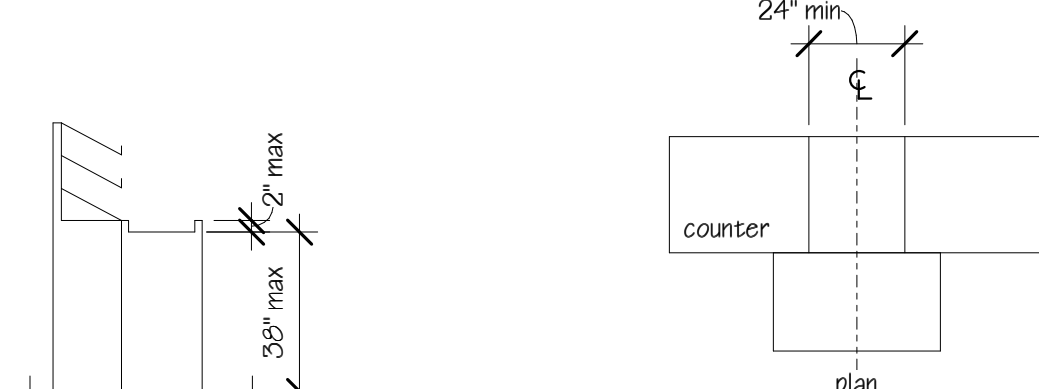


Figure 904.3.2
Check-Out Aisle
Counters

Figure 904.4
(Exception) Alteration
of Sales and Service
Counters

904.3.3 CHECK WRITING SURFACES. WHERE PROVIDED, CHECK WRITING SURFACES SHALL COMPLY WITH 902.3.

904.4 SALES AND SERVICE COUNTERS. SALES COUNTERS AND SERVICE COUNTERS SHALL COMPLY WITH 904.4.1 OR 904.4.2. THE ACCESSIBLE PORTION OF THE COUNTER TOP SHALL EXTEND THE SAME DEPTH AS THE SALES OR SERVICE COUNTER TOP.

EXCEPTION: IN ALTERATIONS, WHEN THE PROVISION OF A COUNTER COMPLYING WITH 904.4 WOULD RESULT IN A REDUCTION OF THE NUMBER OF EXISTING COUNTERS AT WORK STATIONS OR A REDUCTION OF THE NUMBER OF EXISTING MAIL BOXES, THE COUNTER SHALL BE PERMITTED TO HAVE A PORTION WHICH IS 24 INCHES LONG MINIMUM COMPLYING WITH 904.4.1 PROVIDED THAT THE REQUIRED CLEAR FLOOR OR GROUND SPACE IS CENTERED ON THE ACCESSIBLE LENGTH OF THE COUNTER.

904.4.1 PARALLEL APPROACH. A PORTION OF THE COUNTER SURFACE THAT IS 36 INCHES LONG MINIMUM AND 36 INCHES HIGH MAXIMUM ABOVE THE FINISH FLOOR SHALL BE PROVIDED. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE POSITIONED FOR A PARALLEL APPROACH ADJACENT TO THE 36 INCH MINIMUM LENGTH OF COUNTER.

EXCEPTION: WHERE THE PROVIDED COUNTER SURFACE IS LESS THAN 36 INCHES LONG, THE ENTIRE COUNTER SURFACE SHALL BE 36 INCHES HIGH MAXIMUM ABOVE THE FINISH FLOOR.

904.4.2 FORWARD APPROACH. A PORTION OF THE COUNTER SURFACE THAT IS 30 INCHES LONG MINIMUM AND 36 INCHES HIGH MAXIMUM SHALL BE PROVIDED. KNEE AND TOE SPACE COMPLYING WITH 306 SHALL BE PROVIDED UNDER THE COUNTER. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE POSITIONED FOR A FORWARD APPROACH TO THE COUNTER.

904.5 FOOD SERVICE LINES. COUNTERS IN FOOD SERVICE LINES SHALL COMPLY WITH 904.5.

904.5.1 SELF-SERVICE SHELVES AND DISPENSING DEVICES. SELF-SERVICE SHELVES AND DISPENSING DEVICES FOR TABLEWARE, DISHWARE, CONDIMENTS, FOOD AND BEVERAGES SHALL COMPLY WITH 308.

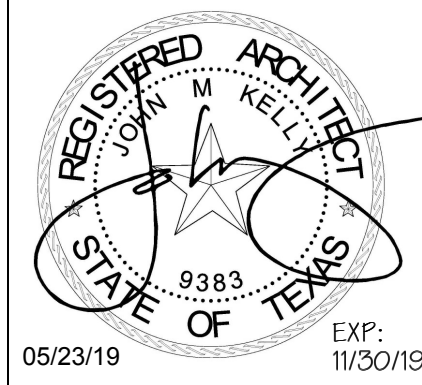
904.5.2 TRAY SLIDES. THE TOPS OF TRAY SLIDES SHALL BE 28 INCHES MINIMUM AND 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

NOTES:
1. SECTIONS OF 2012 TAS NOT PERTAINING TO THIS PROJECT HAVE BEEN OMITTED.
2. FIGURES ARE NOT TO SCALE.
3. ALL DIMENSIONS IN THE 2012 TAS -TEXAS ACCESSIBILITY STANDARDS ARE MEASURED TO FINISHED SURFACES. DIMENSIONS IN THE ACTUAL CONSTRUCTION DRAWINGS ARE MEASURED TO RAW FRAMING.

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DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325



LDG DEVELOPEMENT

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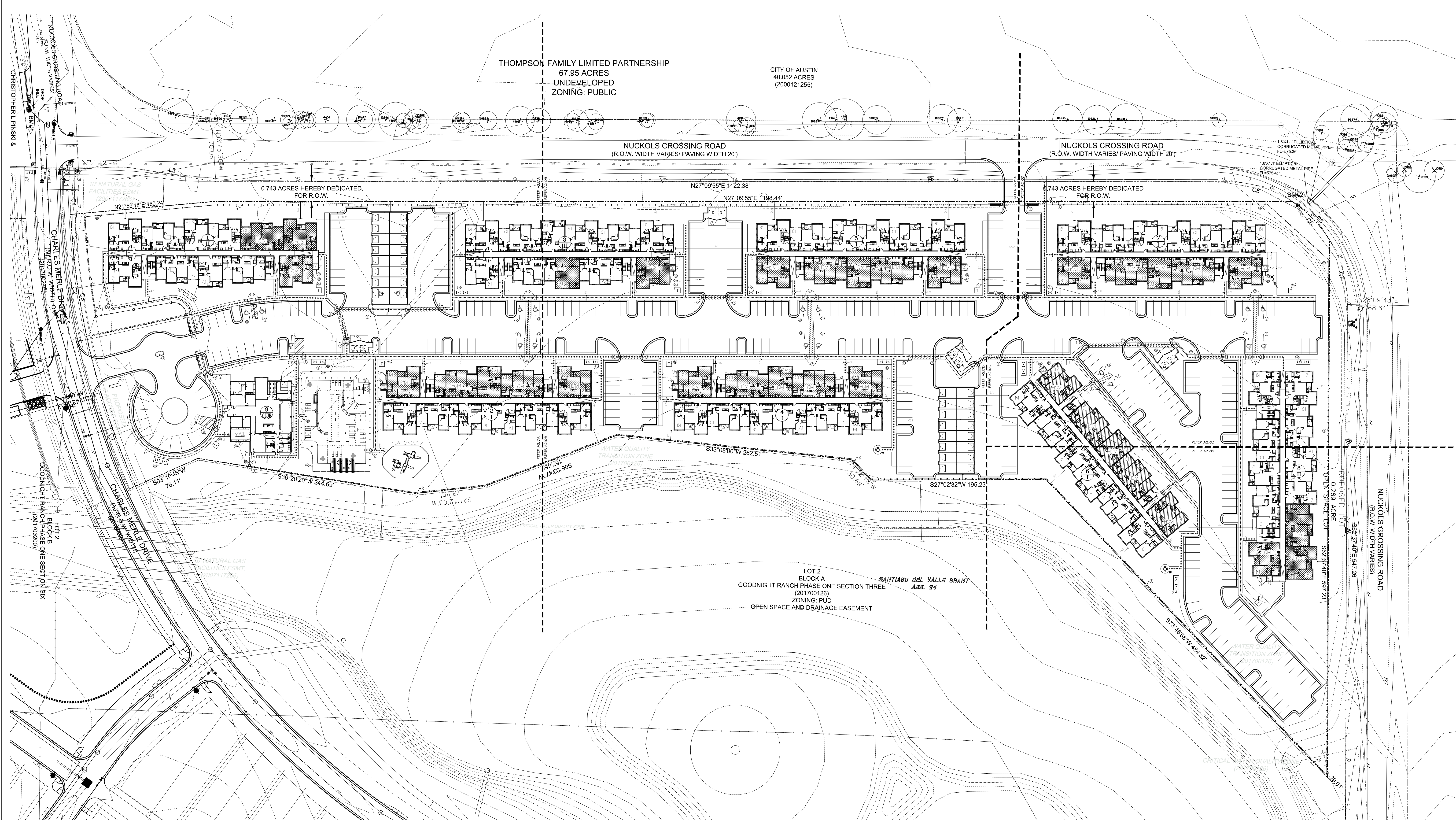
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REGISTERED ARCHITECT
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MOONLIGHT GARDEN

8901 NUCKOLLS CROSSING RD, AUSTIN TX
78747

No.	Revision	Date
1		
2		
3		
4		
5		
ISSUED FOR PERMIT		
06-10-2019		
ISSUED FOR BID		
ISSUED FOR CONSTRUCTION		
DWG NAME		
DATE		
07/22/13		
DESCRIPTION		
TAS SHEET 6		
SHEET		
A1.7E		



GENERAL SITE NOTES

1. THE ARCHITECTURAL SITE PLAN GRAPHICALLY INDICATES THE APPROXIMATE LOCATION OF THE BUILDINGS, DRIVES & PARKING.

2. ALL SITE WORK MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPROVED CIVIL DRAWINGS. REFER TO CIVIL ENGINEER'S DRAWINGS FOR ALL GRADING, UTILITY, WORK, DRAINAGE, DIMENSIONAL CONTROLS, BUILDING FINISH FLOOR ELEVATION AND LOCATION OF REQUIRED RETAINING WALLS AT BUILDINGS. ALL DIMENSIONS ON THIS PLAN ARE FOR REFERENCE ONLY.

3. REFER TO LANDSCAPE DRAWINGS FOR LANDSCAPING, SIDEWALKS, HANDICAP RAMPS, ACCESSIBLE ROUTES TO BUILDINGS, A/C PAD LOCATIONS, VEHICULAR ACCESS CONTROL GATES, AND HANDICAP PARKING SPACES.

4. REFER TO MECHANICAL ENGINEER'S DRAWINGS FOR LOCATIONS OF ALL PANELS, METERS, TRANSFORMERS, CLEANOUTS, AND PARKING LOT LIGHTING.

5. KNOX BOX ENTRY SYSTEM MUST BE PROVIDED AT FIRE DEPARTMENT CRASH GATE AND THE FRONT DOOR OF THE CLUBHOUSE.

6. THE CONTRACTOR IS RESPONSIBLE FOR COMPARING THE FINISHED FLOOR ELEVATIONS OF THE BUILDINGS TO THE FINISHED GRADES AROUND THE BUILDINGS. ACCESS SHOULD BE PROVIDED FROM THE BREEZEWAYS TO FINISHED GRADE AND IF THE PATIOS ARE 2 1/2 FEET OR GREATER ABOVE GRADE, A GUARD RAIL IS REQUIRED.

7. WHERE SIDEWALKS ARE LOCATED ON TOP OF RETAINING WALLS THAT ARE TALLER THAN 30" A 42" RAIL SHALL BE PROVIDED BETWEEN THE SIDEWALK AND THE EDGE OF THE WALL.

8. THE DRIVE AISLE IS TO MEASURE 25' WIDE WITH MINIMUM OF 25' RADIUS CURVES ALONG THE DESIGNATED FIRE LANE.

9. ALL PARKING SPACES MEASURE 9' WIDE BY 17.5' LONG UNLESS THE SPACE IS DESIGNATED ACCESSIBLE. IF THE SPACE IS DESIGNATED ACCESSIBLE THE SPACE WILL MEASURE 8' WIDE BY 17.5' LONG WITH A 5' WIDE STRIPED ACCESS AISLE ALONG SIDE THE SPACE. THIS STRIPED ACCESS AISLE SHALL BE 8' WIDE IF THE ACCESSIBLE SPACE IS DESIGNATED FOR VAN PARKING.

9. FIRE DEPARTMENT CONNECTIONS MUST BE ACCESSIBLE AND VISIBLE FROM THE STREET OR DESIGNATED FIRE LANE AND PROVIDED WITH LOCKING KNOX CAPS PER IFC 912.3.1.

SITE FURNISHINGS NOTES

1 6" WOODEN PRIVACY FENCE, REFER TO DETAIL 7 ON SHEET A2.11

2 DECORATIVE PERIMETER FENCE, REFER TO DETAIL 10 ON SHEET A2.11

3 ACCESSIBLE PARKING SPACE, REFER TO DETAIL 4 ON SHEET A2.11

4 PEDESTRIAN GATE, REFER TO DETAIL 9 ON SHEET A2.11

5 VEHICULAR GATE, REFER DETAIL 13 ON SHEET A2.11

6 ACCESSIBLE DUMPSTER, REFER TO DETAIL 11 ON SHEET A2.11

7 ACCESSIBLE CURB RAMP REFER TO DETAIL 6 ON SHEET A2.11

8 STEEL TUBE BIKE RACK REFER TO DETAIL 1 ON SHEET 2.12

9 VISITOR CALL BOX AND KNOX KEY LOCATION FOR VEHICLE GATES

10 MONUMENT SIGN, BY OTHERS

11 ELECTRIC METER BANK REFER TO MEP

12 ELECTRIC TRANSFORMER, REFER TO MEP

12 ELECTRIC TRANSFORMER, REFER TO MEP

13 POOL EQUIPMENT ROOM

14 POOL FENCE, MIN. 48" TALL

15 STONE COLUMN, REFER TO DETAIL 8 ON SHEET A2.11

16 AREA DRAIN, REFER TO CIVIL

17 CONCRETE METER VAULT AND BACKFLOW VAULT, REFER CIVIL

18 FDC LOCATION, REFER CIVIL

19 POST LIGHT, REFER TO MEP

20 METAL PLATE OVER CURB GUTTER, REFER TO CIVIL

21 POOL GATE

SITE LEGEND

5

III

BLDG #

BLDG TYPE

●●●●●

ACCESSIBLE ROUTE

XXXXXX

FINISHED FLOOR ELEVATION

SC

SPRINKLER CLOSET

PROPERTY LINE

NORTH

0 25' 50' 100'

SCALE: 1:50

IF THIS BAR SCALE DOES NOT MEASURE 2", THEN THE DRAWING IS NOT TO SCALE.

DRAWN BY:
JMB

CHECKED BY:
JMK

PROJECT #:
18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
9383

EXP:
11/30/19

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MOONLIGHT
AUSTIN, TX

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ISSUED FOR PERMIT
06/10/19

ISSUED FOR BID

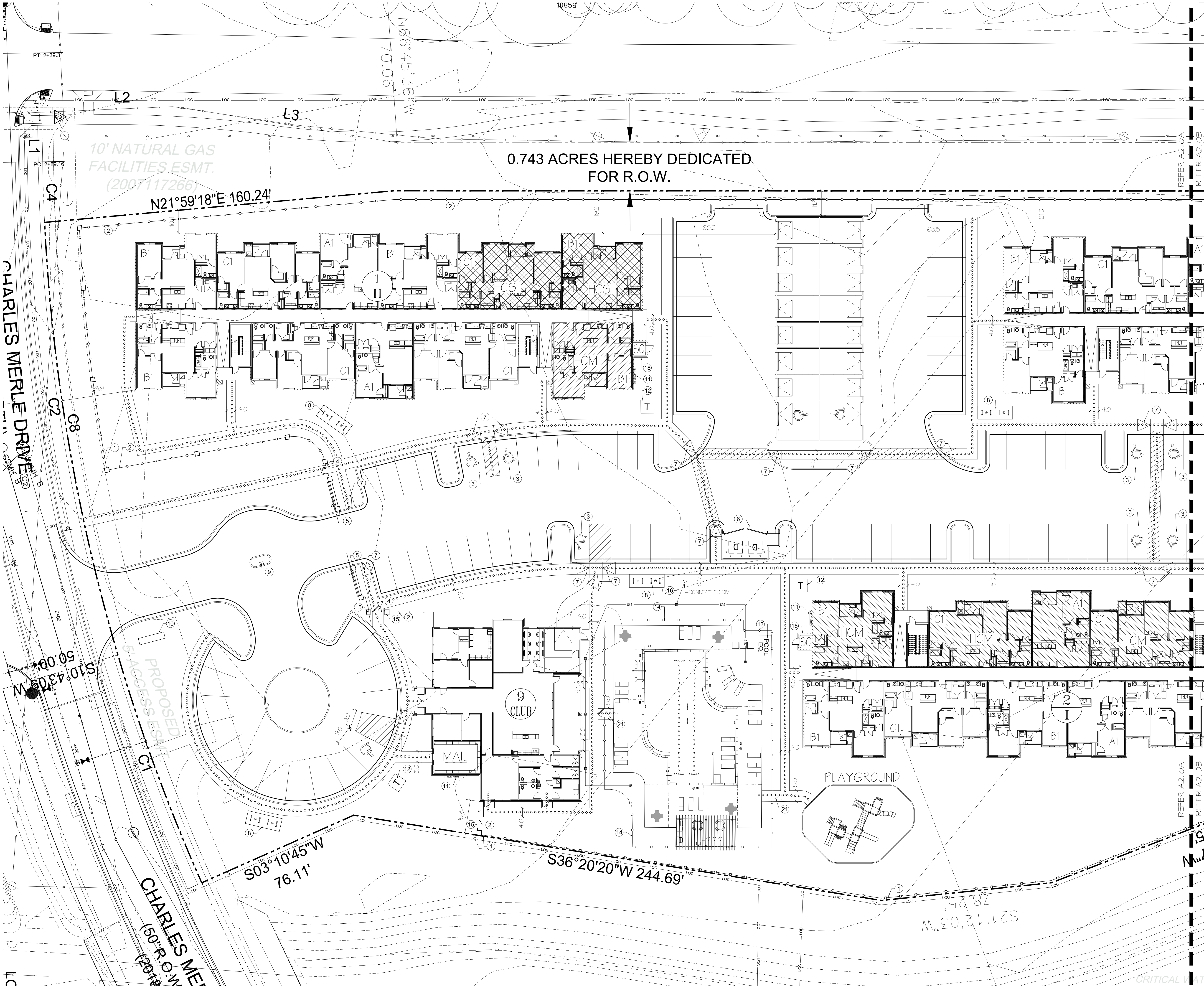
ISSUED FOR CONSTRUCTION

DWG NAME

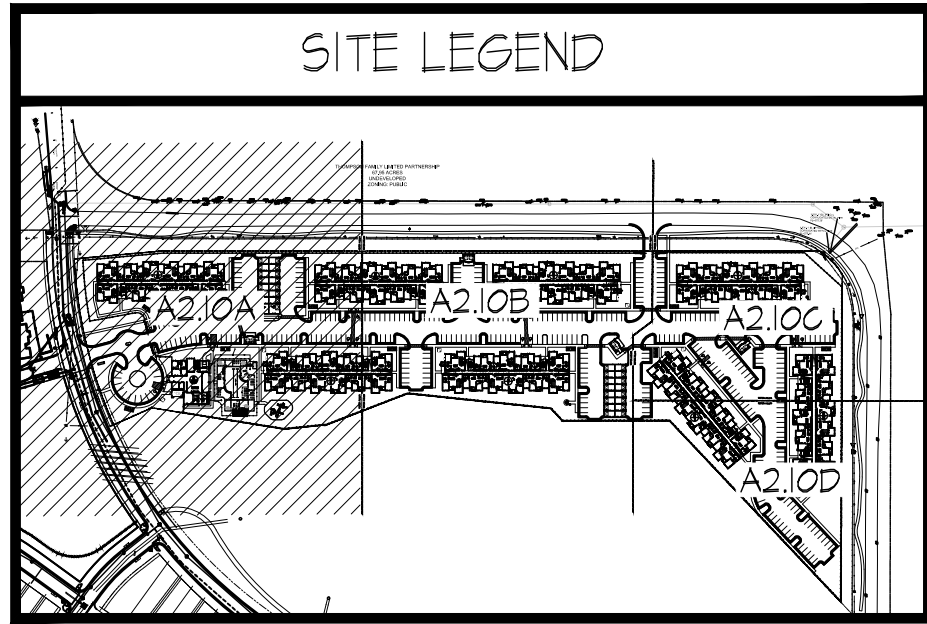
DATE
06/10/19

DESCRIPTION
ARCHITECTURAL
SITE PLAN

SHEET
A2.10

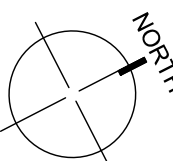


SITE LEGEND	
<div><div>5</div><div>III</div></div>	BLDG # BLDG TYPE
●●●●●	ACCESSIBLE ROUTE
XXX.XX	FINISHED FLOOR ELEVATION
SC	SPRINKLER CLOSET
---	PROPERTY LINE

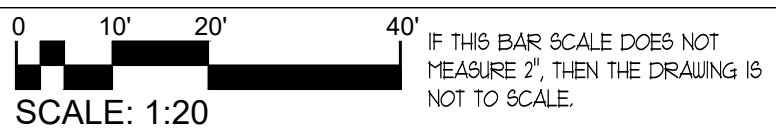


SITE FURNISHINGS NOTES

- 6" WOODEN PRIVACY FENCE, REFER TO DETAIL 7 ON SHEET A2.11
- DECORATIVE PERIMETER FENCE, REFER TO DETAIL 10 ON SHEET A2.11
- ACCESSIBLE PARKING SPACE, REFER TO DETAIL 4 ON SHEET A2.11
- PEDESTRIAN GATE, REFER TO DETAIL 9 ON SHEET A2.11
- VEHICULAR GATE, REFER DETAIL 13 ON SHEET A2.11
- ACCESSIBLE DUMPSTER, REFER TO DETAIL 11 ON SHEET A2.11
- ACCESSIBLE CURB RAMP REFER TO DETAIL 6 ON SHEET A2.11
- STEEL TUBE BIKE RACK REFER TO DETAIL 1 ON SHEET 2.12
- VISITOR CALL BOX AND KNOX KEY LOCATION FOR VEHICLE GATES
- MONUMENT SIGN, BY OTHERS
- ELECTRIC METER BANK REFER TO MEP
- ELECTRIC TRANSFORMER, REFER TO MEP
- POOL EQUIPMENT ROOM
- POOL FENCE, MIN. 48" TALL
- STONE COLUMN, REFER TO DETAIL 8 ON SHEET A2.11
- AREA DRAIN, REFER TO CIVIL
- CONCRETE METER VAULT AND BACKFLOW VAULT, REFER CIVIL
- FDC LOCATION, REFER CIVIL
- POST LIGHT, REFER TO MEP
- METAL PLATE OVER CURB GUTTER, REFER TO CIVIL
- POOL GATE



SITE PLAN PARTIAL A



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JMB

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JMK

PROJECT #:
18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
9383

06-10-19
EXP: 11/30/19

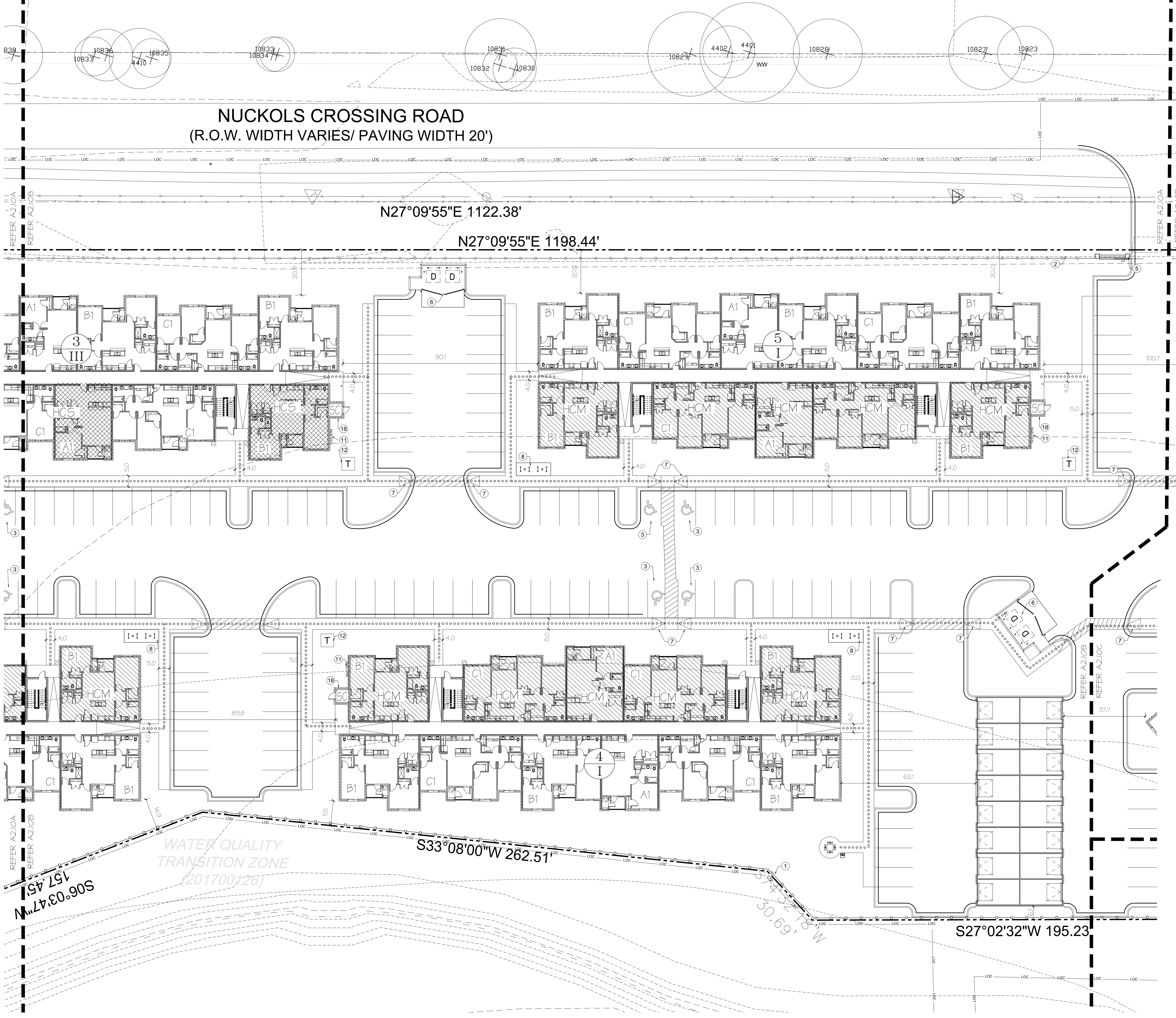
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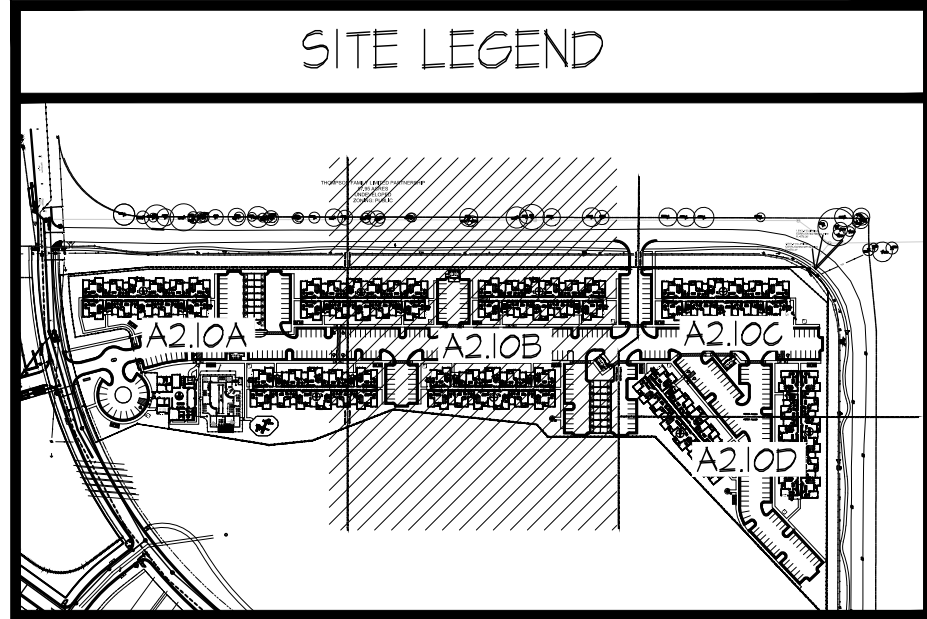
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MOONLIGHT
AUSTIN TX

ISSUED FOR PERMIT	06/10/19
ISSUED FOR BID	
ISSUED FOR CONSTRUCTION	
DWG NAME	
DATE	06/10/19
DESCRIPTION	ARCHITECTURAL SITE PLAN PARTIAL "A"
SHEET	A 2.10A



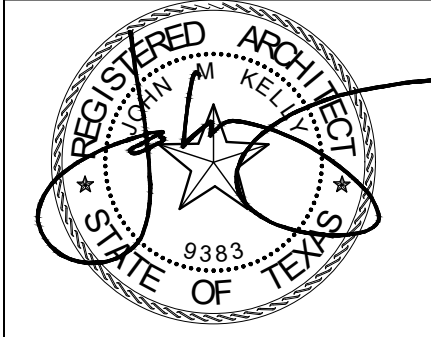
SITE LEGEND	
<div><div>5</div><div>III</div></div>	BLDG # BLDG TYPE
<div><div>●●●●●</div></div>	ACCESSIBLE ROUTE
<div><div>XXX.XX</div></div>	FINISHED FLOOR ELEVATION
<div><div>SC</div></div>	SPRINKLER CLOSET
<div><div>---</div></div>	PROPERTY LINE



SITE FURNISHINGS NOTES

- 6' WOODEN PRIVACY FENCE, REFER TO DETAIL 7 ON SHEET A2.11
- DECORATIVE PERIMETER FENCE, REFER TO DETAIL 10 ON SHEET A2.11
- ACCESSIBLE PARKING SPACE, REFER TO DETAIL 4 ON SHEET A2.11
- PEDESTRIAN GATE, REFER TO DETAIL 9 ON SHEET A2.11
- VEHICULAR GATE, REFER DETAIL 13 ON SHEET A2.11
- ACCESSIBLE DUMPSTER, REFER TO DETAIL 11 ON SHEET A2.11
- ACCESSIBLE CURB RAMP REFER TO DETAIL 6 ON SHEET A2.11
- STEEL TUBE BIKE RACK REFER TO DETAIL 1 ON SHEET 2.12
- VISITOR CALL BOX AND KNOX KEY LOCATION FOR VEHICLE GATES
- MONUMENT SIGN, BY OTHERS
- ELECTRIC METER BANK REFER TO MEP
- ELECTRIC TRANSFORMER, REFER TO MEP
- POOL EQUIPMENT ROOM
- POOL FENCE, MIN. 48" TALL
- STONE COLUMN, REFER TO DETAIL 8 ON SHEET A2.11
- AREA DRAIN, REFER TO CIVIL
- CONCRETE METER VAULT AND BACKFLOW VAULT, REFER CIVIL
- FDC LOCATION, REFER CIVIL
- POST LIGHT, REFER TO MEP
- METAL PLATE OVER CURB GUTTER, REFER TO CIVIL
- POOL GATE

DRAWN BY:	JMB
CHECKED BY:	JMK
PROJECT #:	18-2325



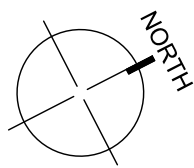
EXP: 11/30/19
06-10-19

LDG DEVELOPMENT
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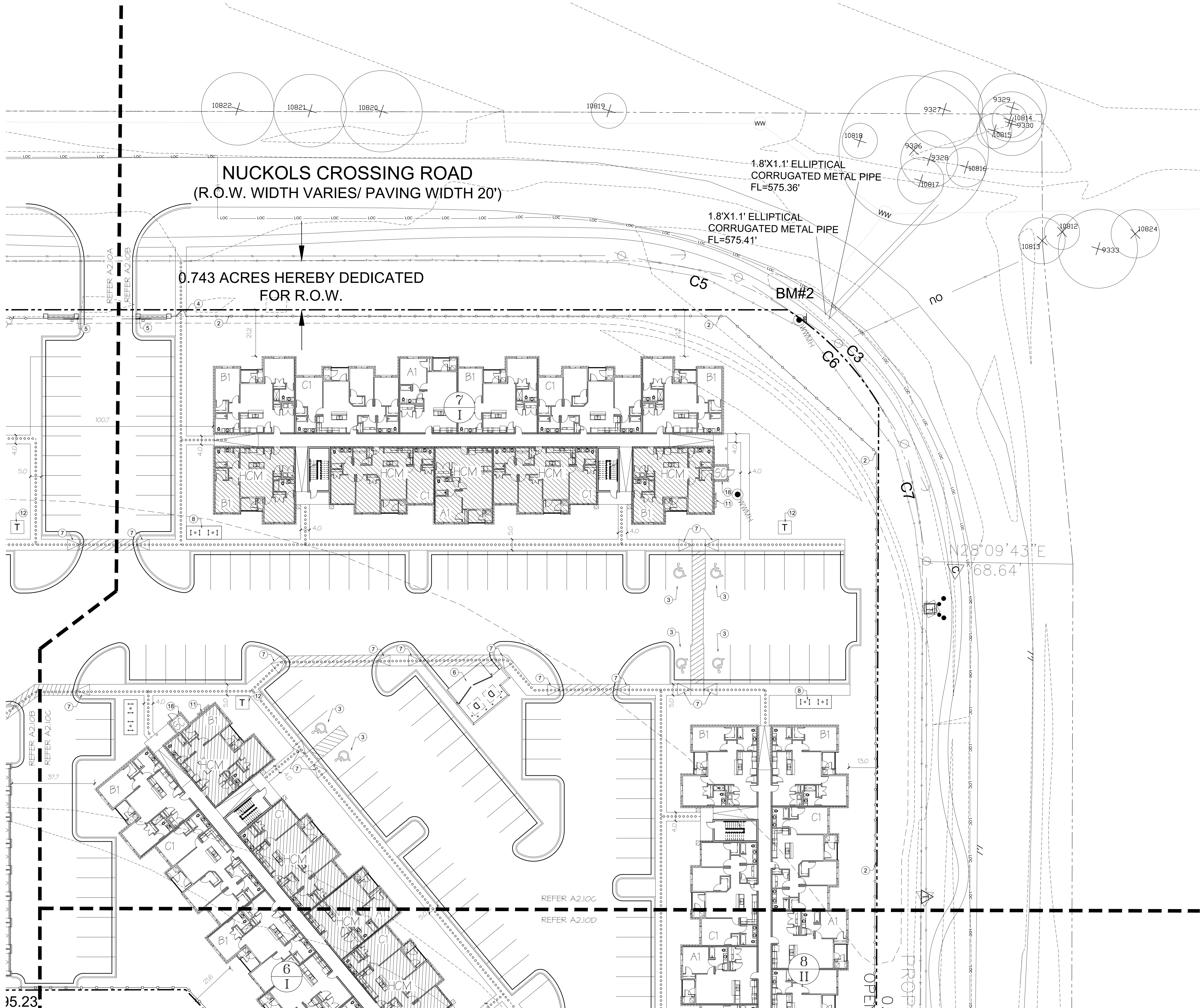
MOONLIGHT
AUSTIN, TX

ISSUED FOR PERMIT	06/10/19
ISSUED FOR BID	
ISSUED FOR CONSTRUCTION	
DWG NAME	
DATE	06/10/19
DESCRIPTION	ARCHITECTURAL SITE PLAN PARTIAL "B"
SHEET	A2.10B

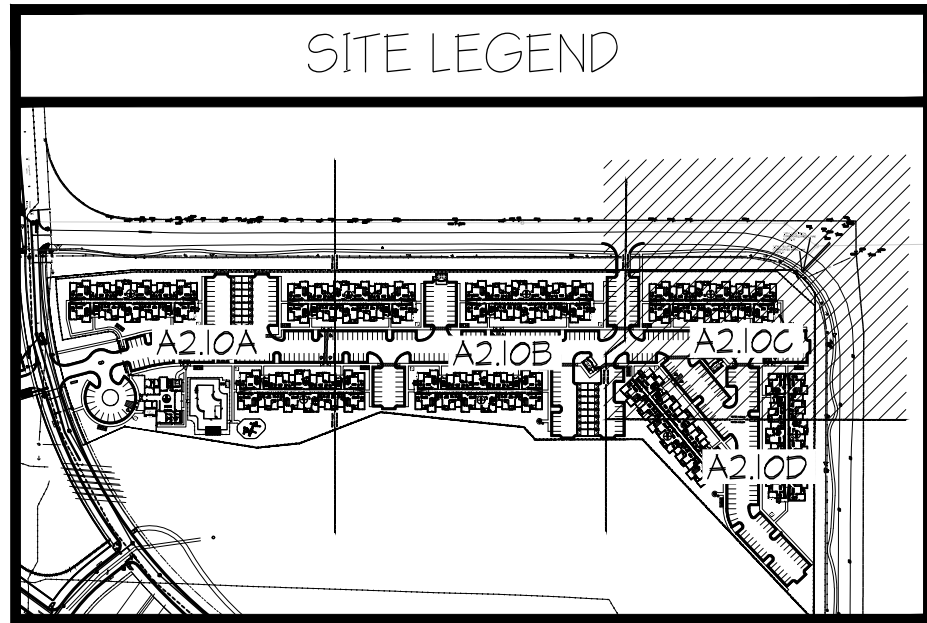


SITE PLAN PARTIAL B

0 10' 20' 40'
SCALE: 1:20
IF THIS BAR SCALE DOES NOT MEASURE 2", THEN THE DRAWING IS NOT TO SCALE.

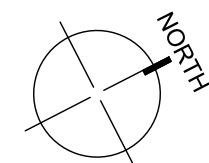


SITE LEGEND	
	BLDG #
	BLDG TYPE
	ACCESSIBLE ROUTE
	FINISHED FLOOR ELEVATION
	SC
	PROPERTY LINE

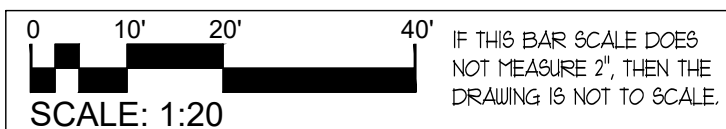


SITE FURNISHINGS NOTES

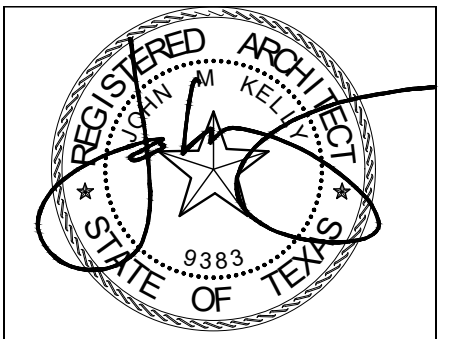
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- DECORATIVE PERIMETER FENCE, REFER TO DETAIL 10 ON SHEET A2.11
- ACCESSIBLE PARKING SPACE, REFER TO DETAIL 4 ON SHEET A2.11
- PEDESTRIAN GATE, REFER TO DETAIL 9 ON SHEET A2.11
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- ACCESSIBLE CURB RAMP REFER TO DETAIL 6 ON SHEET A2.11
- STEEL TUBE BIKE RACK REFER TO DETAIL 1 ON SHEET 2.12
- VISITOR CALL BOX AND KNOX KEY LOCATION FOR VEHICLE GATES
- MONUMENT SIGN, BY OTHERS
- ELECTRIC METER BANK REFER TO MEP
- ELECTRIC TRANSFORMER, REFER TO MEP
- POOL EQUIPMENT ROOM
- POOL FENCE, MIN. 48" TALL
- STONE COLUMN, REFER TO DETAIL 8 ON SHEET A2.11
- AREA DRAIN, REFER TO CIVIL
- CONCRETE METER VAULT AND BACKFLOW VAULT, REFER CIVIL
- FDC LOCATION, REFER CIVIL
- POST LIGHT, REFER TO MEP
- METAL PLATE OVER CURB GUTTER, REFER TO CIVIL
- POOL GATE



SITE PLAN PARTIAL C



DRAWN BY:	JMB
CHECKED BY:	JMK
PROJECT #:	18-2325



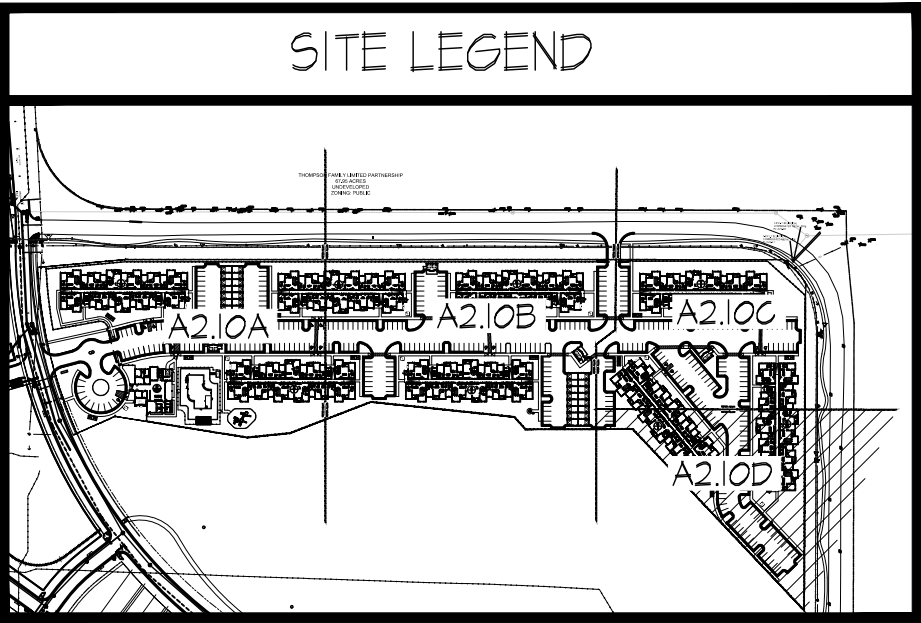
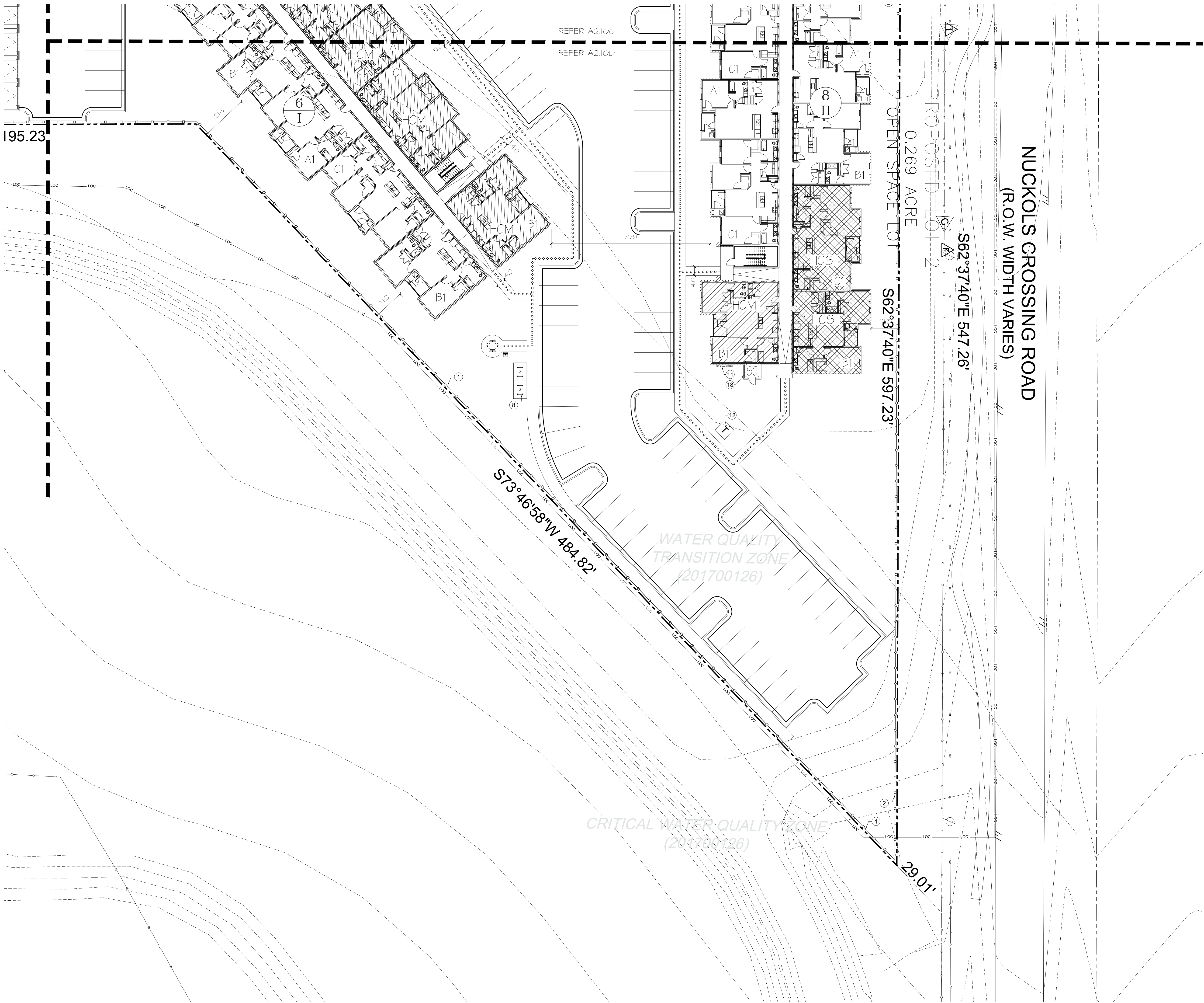
EXP: 11/30/19
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MOONLIGHT
AUSTIN TX

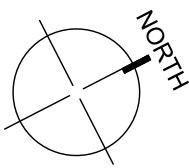
ISSUED FOR PERMIT	06/10/19
ISSUED FOR BID	
ISSUED FOR CONSTRUCTION	
DWG NAME	
DATE	06/10/19
DESCRIPTION	ARCHITECTURAL SITE PLAN PARTIAL "C"
SHEET	A2.10C



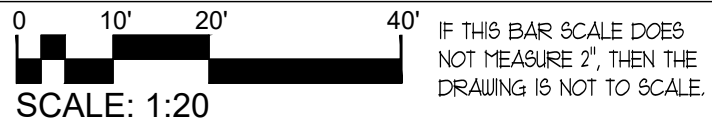
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	BLDG #
	BLDG TYPE
	ACCESSIBLE ROUTE
	FINISHED FLOOR ELEVATION
	SC
	PROPERTY LINE

SITE FURNISHINGS NOTES

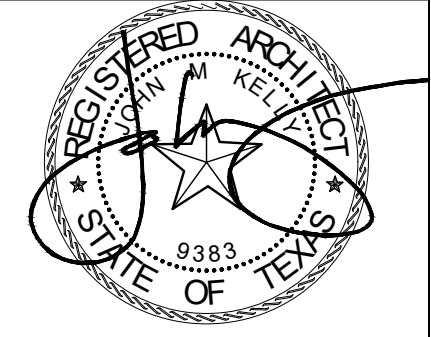
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- DECORATIVE PERIMETER FENCE, REFER TO DETAIL 10 ON SHEET A2.11
- ACCESSIBLE PARKING SPACE, REFER TO DETAIL 4 ON SHEET A2.11
- PEDESTRIAN GATE, REFER TO DETAIL 9 ON SHEET A2.11
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- ACCESSIBLE DUMPSTER, REFER TO DETAIL 11 ON SHEET A2.11
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- VISITOR CALL BOX AND KNOX KEY LOCATION FOR VEHICLE GATES
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- ELECTRIC METER BANK REFER TO MEP
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- POOL EQUIPMENT ROOM
- POOL FENCE, MIN. 48" TALL
- STONE COLUMN, REFER TO DETAIL 8 ON SHEET A2.11
- AREA DRAIN, REFER TO CIVIL
- CONCRETE METER VAULT AND BACKFLOW VAULT, REFER CIVIL
- FDC LOCATION, REFER CIVIL
- POST LIGHT, REFER TO MEP
- METAL PLATE OVER CURB GUTTER, REFER TO CIVIL
- POOL GATE



SITE PLAN PARTIAL D



DRAWN BY:	JMB
CHECKED BY:	JMK
PROJECT #:	18-2325



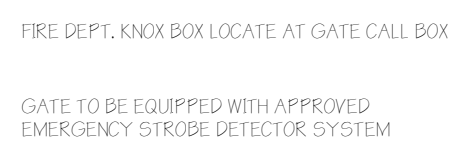
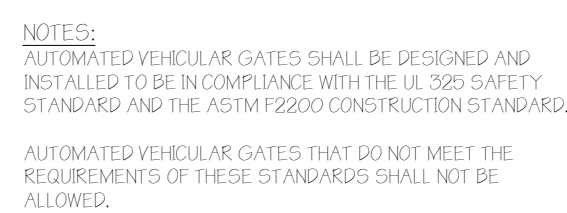
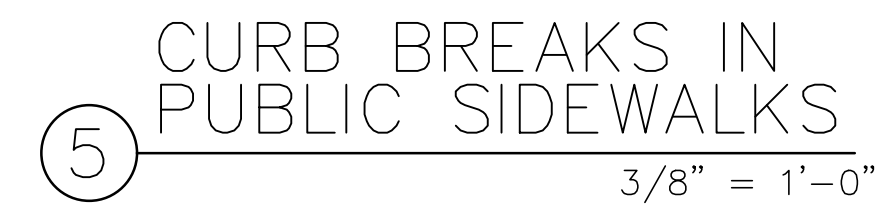
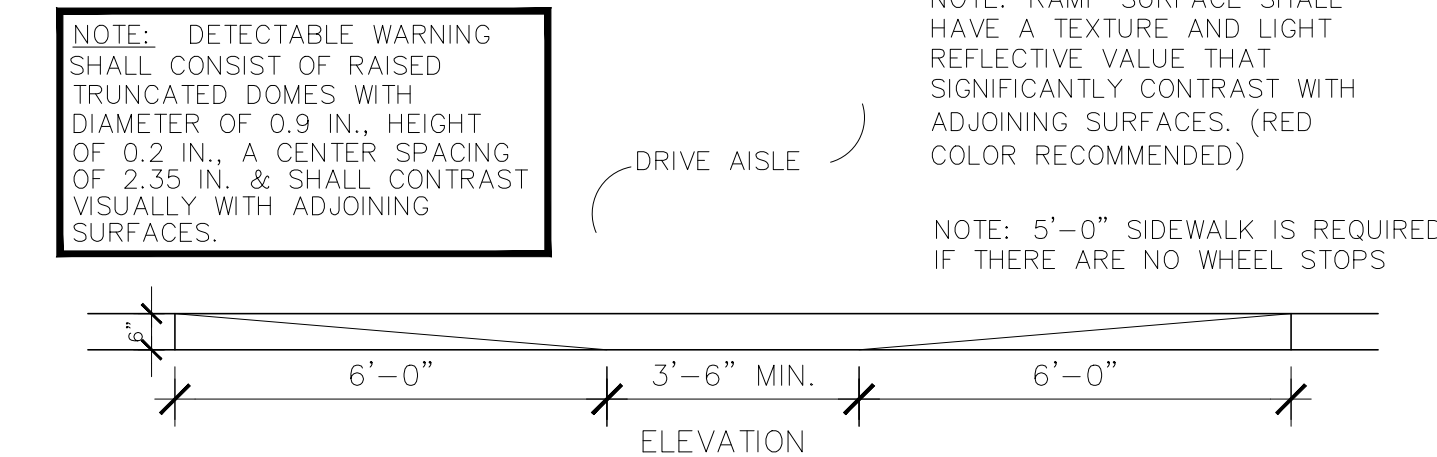
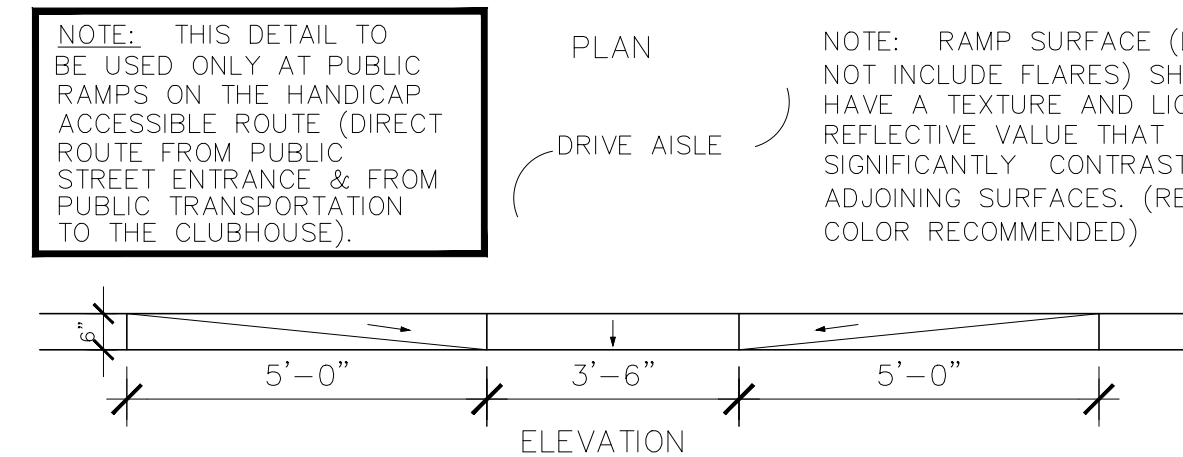
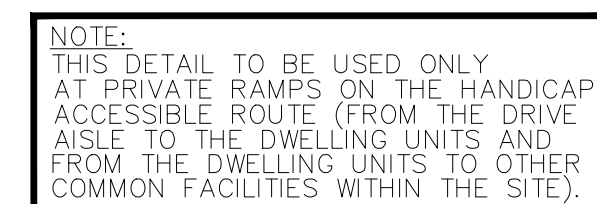
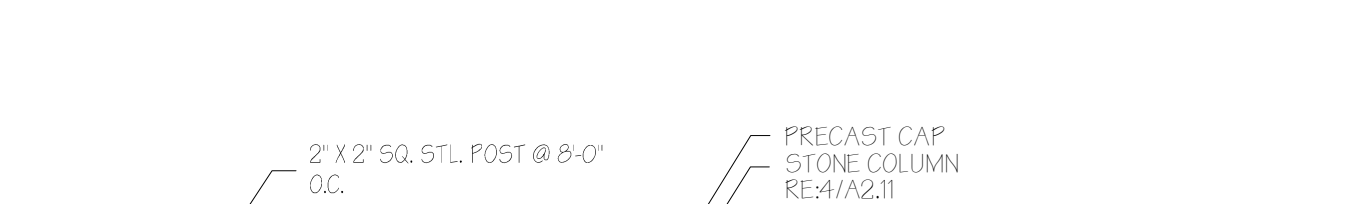
06-10-19	EXP: 11/30/19
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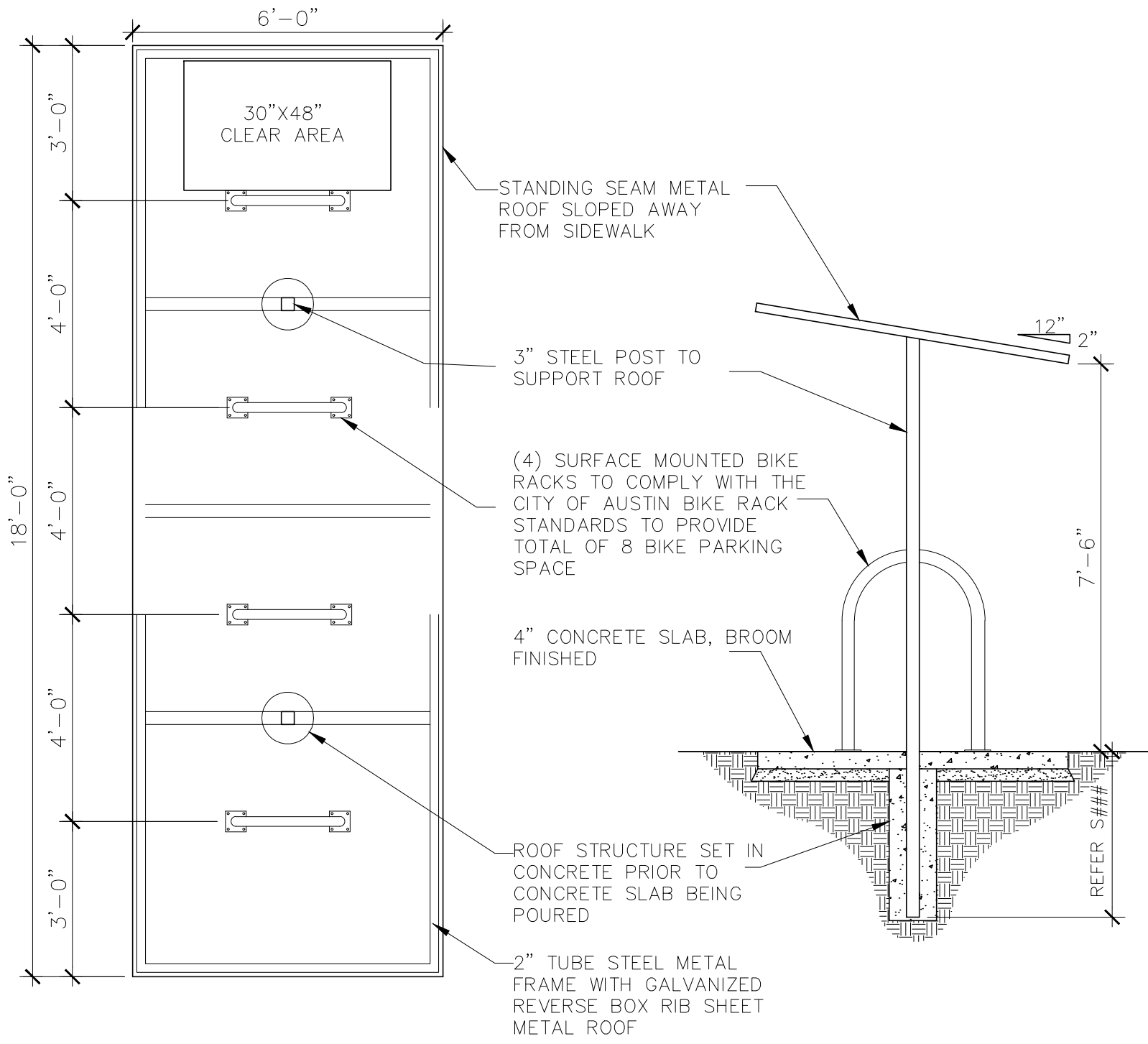
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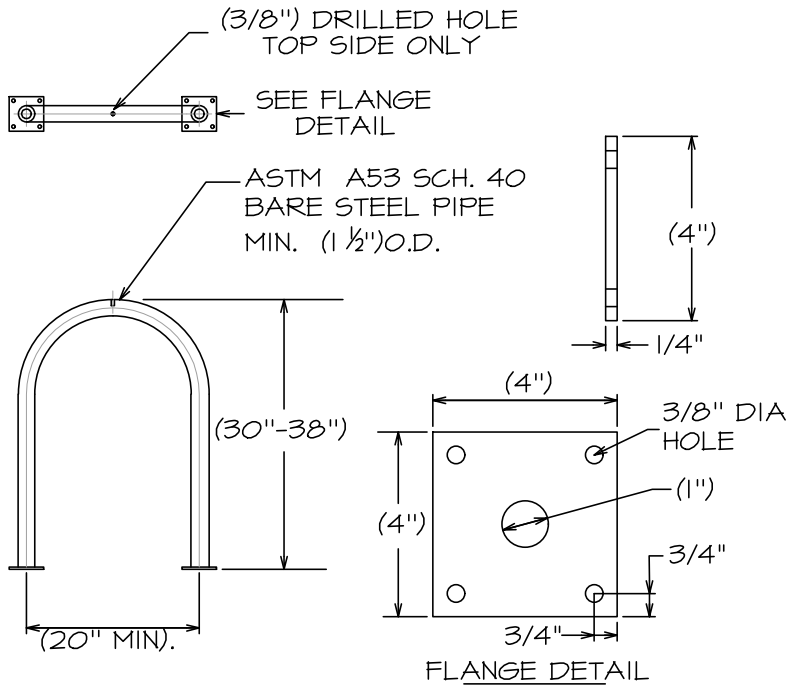
MOONLIGHT
AUSTIN TX

ISSUED FOR PERMIT					
06/10/19					
ISSUED FOR BID					
ISSUED FOR CONSTRUCTION					
DWG NAME					
DATE					
06/10/19					
DESCRIPTION					
ARCHITECTURAL					
SITE PLAN PARTIAL "D"					
SHEET					
A2.10D					



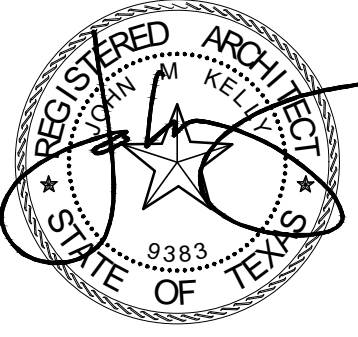


2 COVERED BIKE PARKING 3/8"



1 BIKE RACK 2 SPACE NTS

DRAWN BY:	AJS
CHECKED BY:	JMK
PROJECT #:	18-2325



EXP:
11/30/19

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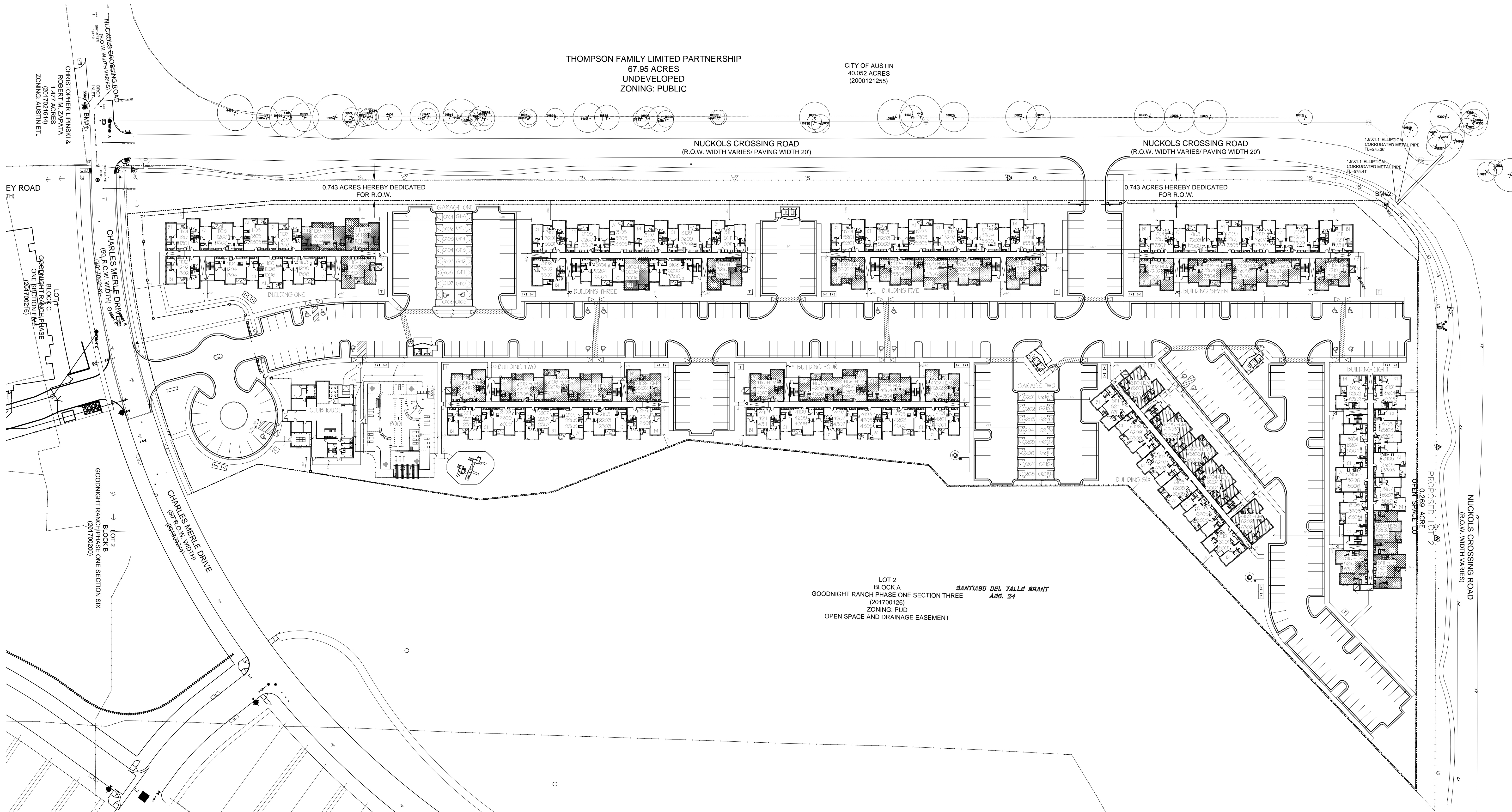
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MOONLIGHT

AUSTIN TX

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ISSUED FOR PERMIT		
06/10/19		
ISSUED FOR BID		
ISSUED FOR CONSTRUCTION		
DWG NAME		
DATE		
06/10/19		
DESCRIPTION		
ARCHITECTURAL SITE PLAN DETAILS		
SHEET		
A2.12		



UNITS WITH HCM FOLLOWING THE UNIT NUMBER (#-HCM) ARE DESIGNATED MOBILITY IMPAIRED UNITS

UNITS WITH HCS FOLLOWING THE UNITS NUMBER (#-HCS) ARE DESIGNATED SENSORY IMPAIRED UNITS

MOBILITY IMPAIRED UNITS (HCM)

SENSORY UNITS (HCS)

THE FOLLOWING UNITS ARE DESIGNATED MOBILITY IMPAIRED UNITS. (10% OF TOTAL)

ONE BEDROOM UNIT, TYPE A1 HAS (5) MOBILITY IMPAIRED UNITS:
#2106, #4106, #5106, #6106, & #7106

TWO BEDROOM TWO BATH UNIT, TYPE B1 HAS (12) MOBILITY IMPAIRED UNITS:
#1110, #2102, #2110, #4102, #4110, #5102, #5110, #6102, #6110, #7102, #7110, & #8110

THREE BEDROOM UNIT, TYPE C1 HAS (10) MOBILITY IMPAIRED UNITS:
#2104, #2108, #4104, #4108, #5104, #5108, #6104, #6108, #7104, & #7108

THE FOLLOWING UNITS ARE DESIGNATED SENSORY IMPAIRED UNITS. (2% OF TOTAL)

ONE BEDROOM UNIT, TYPE A1 HAS (1) SENSORY IMPAIRED UNIT:
#3106

TWO BEDROOM UNIT, TYPE B1 HAS (3) SENSORY IMPAIRED UNITS:
#1111, #5110, & #8111

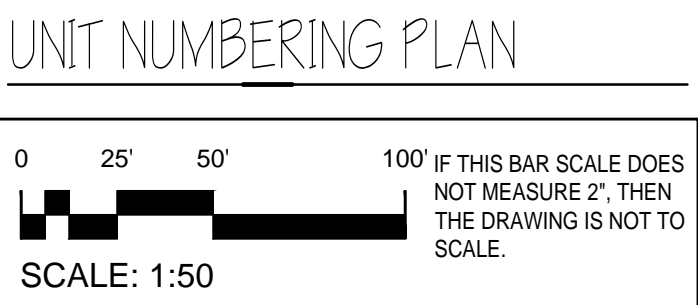
THREE BEDROOM UNIT, TYPE C1 HAS (2) SENSORY IMPAIRED UNITS:
#1109, & #5109

NOTES

BUILDING NUMBERS SHALL BE AT LEAST 8" HIGH, VISIBLE FROM THE STREET OR FIRE LANE.

THE ADDRESS NUMBERS MUST BE OF A COLOR THAT CONTRASTS WITH THE BACKGROUND AND MUST BE INSTALLED ON THE SIDE OF THE BUILDING THAT FACES THE PUBLIC STREET.

FOR EACH TENANT SPACE OR APARTMENT PROVIDE THE STE. NUMBER IN 4" NUMBERS NEAR THE FRONT DOOR AND ON THE REAR DOOR, IFC 505.1.



DRAWN BY:
JMB

CHECKED BY:
JMK

PROJECT #:
18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
9383
06-10-19
EXP: 11/30/19

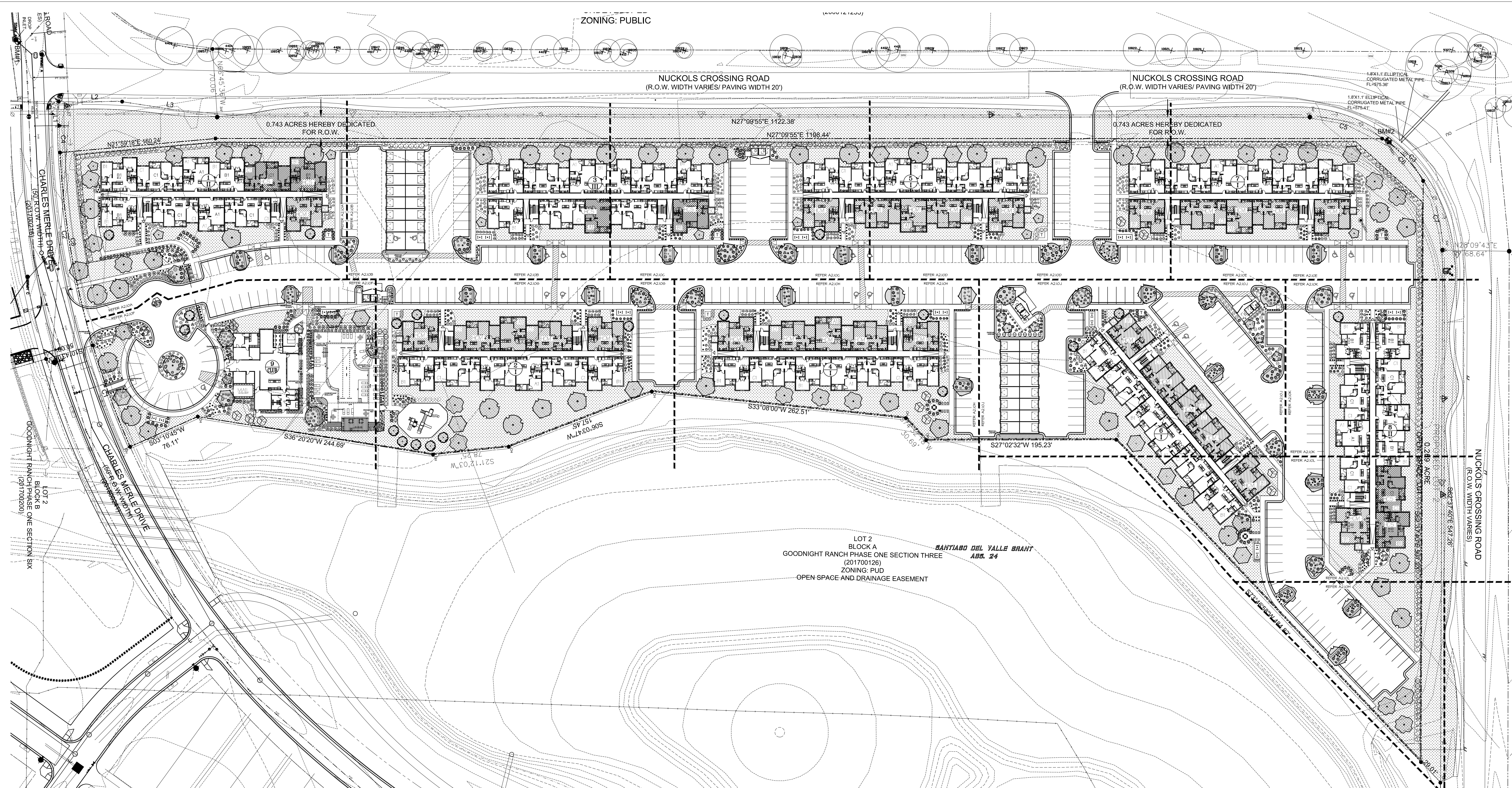
LDG DEVELOPMENT

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286 ADAMS RD. #201, KANSAS CITY, MO 64111
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MOONLIGHT
AUSTIN TX

ISSUED FOR PERMIT	06/10/19
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ISSUED FOR CONSTRUCTION	
DWG NAME	
DATE	06/10/19
DESCRIPTION	UNIT NUMBERING PLAN
SHEET	A2.20



DRAWN BY:
JMB
CHECKED BY:
JMK
PROJECT #:
18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
06-10-19
EXP: 11/30/19

LDG DEVELOPEMENT
1469 SOUTH FOURTH
STREET, LOUISVILLE, KY
40208,
(P) 502.609.4940

ARCHITECTURE - LAND PLANNING - LANDSCAPE DESIGN - CONSTRUCTION ADMINISTRATION
KELLY GROSSMAN
A R C H I T E C T S L L C
2862 ADAMS RD. #100, KANSAS CITY, MO 64111
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AUSTIN TX

ISSUED FOR PERMIT		
06/10/19		
ISSUED FOR BID		
ISSUED FOR CONSTRUCTION		
DWG NAME		
DATE		
06/10/19		
DESCRIPTION		
OVERALL LANDSCAPE PLAN		
SHEET		
A2.40		

SYMBOL	QTY	BOTANICAL NAME COMMON NAME SIZE	REMARKS
	45	Orbesilum sp. nov. Mountain Pea 6" Pots	Full, Healthy, Bright Green Plant 18" O.C.
	125	Trachelospermum jasminoides Star Jasmine 1 Gal.	Full, Healthy, Glossy-Green Plant 18" O.C.
	20	Scutellaria ovata Heartleaf Skullcap 6" Pots	Full, Healthy, Bright Green Plant 18" O.C.
	180	Seasonal Planting 4" Pots	Full, Healthy, Bright Green Plant 12" O.C.
	20	Dichondra argentea Silver Ponyfoot 6" Pots	Full, Healthy, Silver-Green Plant 18" O.C.
	4 80,000 5"	Cynodon Tiff 419 Tiff 419 Bermuda Grass Solid Sod as Labeled	Dense, Healthy, Bright Green.
	7	Limestone Boulders Large: 2' to 4'	Partially buried as outcroppings.

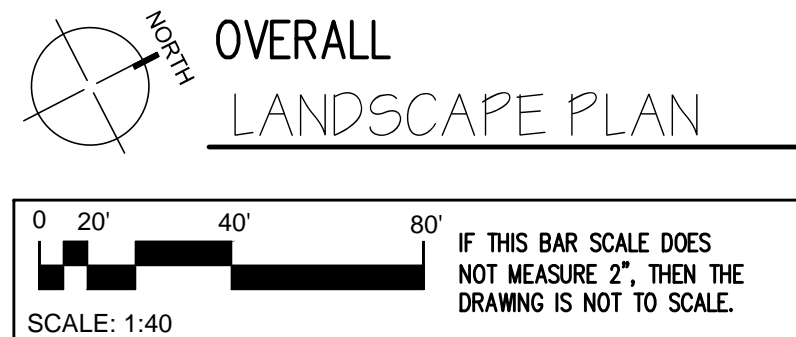
NOTE: PLANT COUNT FOR CONTRACTOR CONVENIENCE, CHECK PLANS

SYMBOL	QTY	BOTANICAL NAME COMMON NAME SIZE	REMARKS
	34	Quercus shumardii Shumard Oak 3" Cal. 10'-12' Ht.	Single Trunk, Dark Green, Full Canopy, Matched, B&B
	17	Quercus muhlenbergii Chinquapin Oak 3" Cal. 10'-12' Ht. (Min)	Single Trunk, Dark Green, Full Canopy, Matched, B&B
	32	Ulmus crassifolia Cedar Elm 3" Cal. 10'-12' Ht. (Min)	Single Trunk, Dark Green, Full Canopy, Matched, B&B
	33	Fraxinus texensis Texas Ash 3" Cal. 6' Ht. (Min)	Single Trunk, Dark Green, Full Canopy, Matched, B&B
	19	Ilex vomitoria Yaupon Holly 3" Cal. 6' Ht.	Multi-trunk, 3-5 Canes, Dark Green, Full Canopy, Matched, B&B
	18	Cercis canadensis Texas Redbud 3" Cal. 6' Ht.	Single trunk, Dark Green, Full Canopy, Matched, B&B
	9	Lagerstroemia indica Carolina Beauty Red Crape Myrtle 3" Cal. 6'	Multi-trunk, 3-5 Canes, Dark Green, Full Canopy, Matched, B&B
	10	Lagerstroemia indica Natchez White Crape Myrtle 3" Cal. 6'	Multi-trunk, 3-5 Canes, Dark Green, Full Canopy, Matched, B&B

SYMBOL	QTY	BOTANICAL NAME COMMON NAME SIZE	REMARKS
	87	Yibumum supersonum Sandankwa Viburnum 5 Gal. 24" Ht., 24" Sprd. (Min)	Full, Healthy, Bright Green Plant as Shown
	94	Abelia x grandiflora Edward Courcier Glossy Abelia 5 Gal. 18" Ht., 18" Sprd. (Min)	Full, Healthy, Bright Green Plant as Shown
	30	Dwarf Wax Myrtle Myrica pusilla 5 Gal. 3' Ht., 2' Sprd. (Min)	Full, Healthy, Bright Green, Plant as Shown
	89	Jasminum mesnyi Primrose Jasmine 3 OR 5 Gal.	Full, Healthy, Bright Green, Plant as Shown
	22	Galphimia glauca Golden Showers Thryallis 5 Gal. 18" Ht., 18" Spread (Min)	Full, Healthy, Bright Green, Plant as Shown
	62	Leucophyllum frutescens Texas Sage Green Cloud 5 gal. 24" Ht., 18" Sprd. (Min)	Full, Healthy, Grey Green, Plant as shown
	42	Cotoneaster glaucophyllus Grey Cotoneaster 5 Gal. 24" Ht., 18" Spread (Min)	Full, Healthy, Dark Green, Plant as Shown
	184	Dietes bicolor Iris Bicolor 5 Gal. 24" Ht., 18" Sprd. (Min)	Full, Healthy, Bright Green, Plant as shown
	200	Salvia greggii Pink Autumn Sage 3 Gal. 12" Ht., 12" Spread (Min)	Full, Healthy, Bright Green, Plant as shown
	30	Loropetalum chinense Chinese Fringe Flower 5 Gal. 24" Ht., 24" Spread (Min)	Full, Healthy, Dark Green, Plant as shown
	128	Salvia roemeriana Cedar Sage 3 Gal. 18" Ht., 12" Spread (Min)	Full, Healthy, Dark Green, Plant as shown
	113	Hesperaloe parviflora Red Yucca 5 gal. 12" Ht., 18" Sprd. (Min)	Full, Healthy, Dark Green, Plant as shown

	15	Rosa Double Knock Out Double Knock Out Rose 5 gal. 24" Ht., 18" Sprd. (Min)	Full, Healthy, Dark Green, Red Flowers, Plant as shown
	12	Ilex vomitoria Nana Dwarf Yaupon 3 gal. 12" Ht., 12" Sprd. (Min)	Full, Healthy, Dark Green, Plant as shown
	17	Raphiolepis indica Indian Hawthorn 5 Gal. 24" Ht., 18" Spread (Min)	Full, Healthy, Dark Green, Plants as Shown
	40	Lantana montevidensis Trailing Lantana 1 Gal. 12" Ht., 12" Spread (Min)	Full, Healthy, Bright Green, Plant as shown
	111	Rosa Dudley Cross Mrs Dudley Cross Rose 3 gal. 18" Ht., 12" Sprd. (Min)	Full, Healthy, Dark Green, White Flowers, Plant as shown
	88	Rosa Martha Gonzalez Martha Gonzalez Rose 3 gal. 18" Ht., 12" Sprd. (Min)	Full, Healthy, Dark Green, Red Flowers, Plant as shown
	19	Salvia leucantha Mexican Bush Sage 3 Gal. 18" Ht., 18" Spread (Min)	Full, Healthy, Dark Green, Plant as shown
	26	Equisetum hyemale Horsetail Reed 5 Gal. 24" Ht., 18" Spread (Min)	Full, Healthy, Bright Green, Plant as shown
	308	Muhlenbergia capillaris Gulf Muhly 3 Gal. 18" Ht., 12" Spread (Min)	Full, Healthy, Bright Green, Plant as shown
	37	Muhlenbergia lindheimeri Big Muhly Grass 1 Gal. 12" Ht., 12" Spread (Min)	Full, Healthy, Dark Green Plant as Shown
	11	Muhlenbergia dumosa Bamboo Muhly Grass 3 Gal. 18" Ht., 18" Spread (Min)	Full, Healthy, Light Green Plant as Shown
	24	Panicum virgatum Switch Grass 1 Gal. 12" Ht., 12" Spread (Min)	Full, Healthy, Bright Green, Plant as shown
	18	Chasmananthus latifolium Inland Sea Oats 1 Gal. 12" Ht., 12" Spread (Min)	Full, Healthy, Bright Green, Plant as shown

	165	Viguiera stenoides Skeletal Godeteye 1 Gal. 6" Ht., 6" Spread (Min)	Full, Healthy, Bright Green, Plant as shown
	616	Stipa tenuissima Mexican Feather Grass 1 gal. 9" Ht., 18" Spread (Min)	Full, Healthy, Bright Green, Plant as shown
	275	Liriope muscari gigantea Giant Liriope 1 Gal. 9" Ht., 12" Spread (Min)	Full, Healthy, Dark Green Plant as Shown

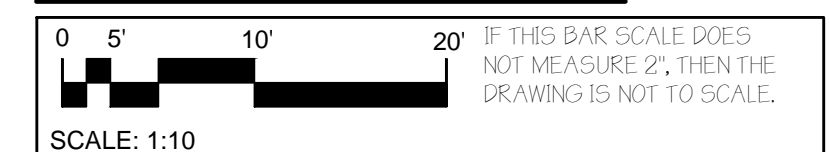



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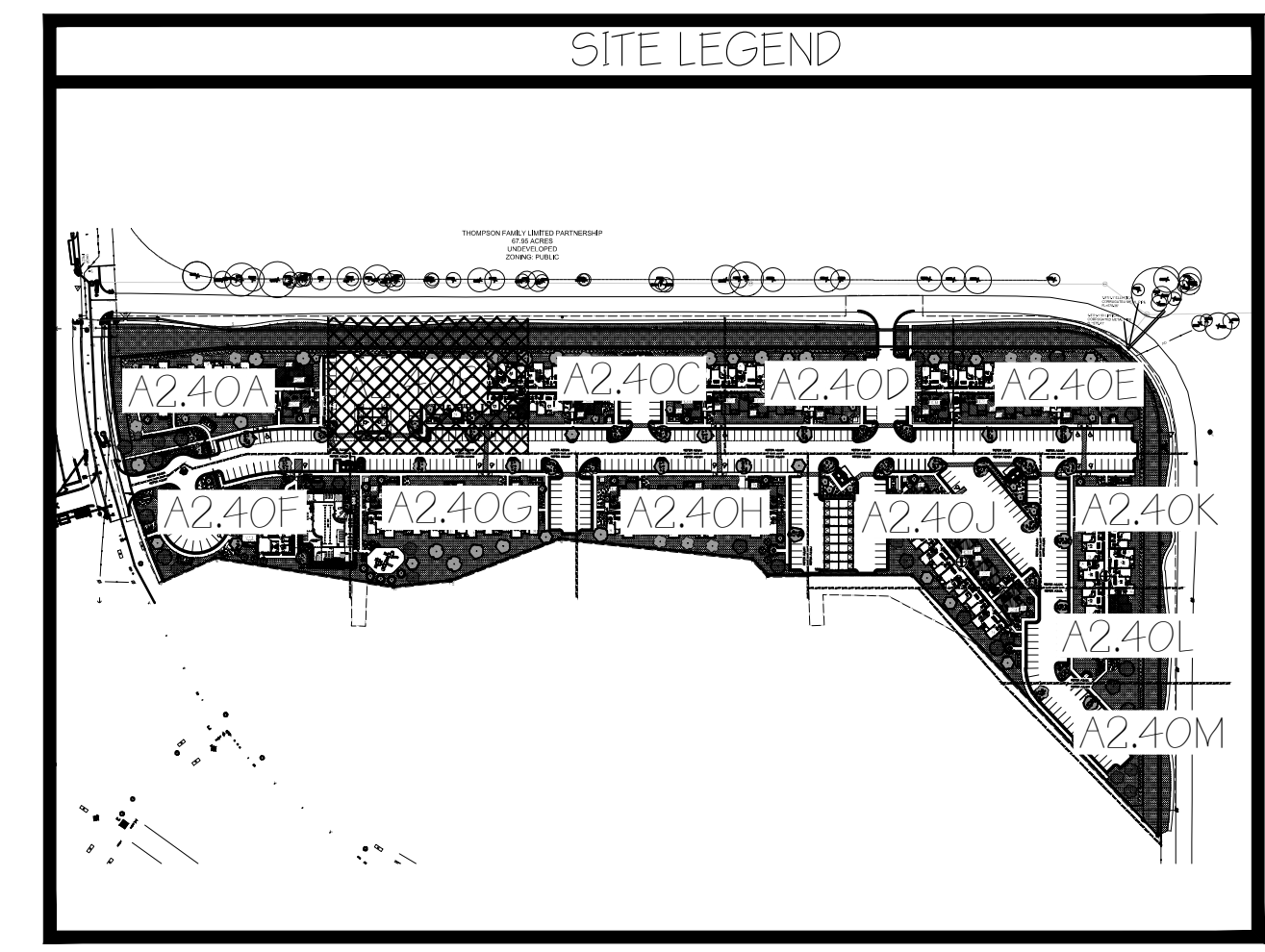
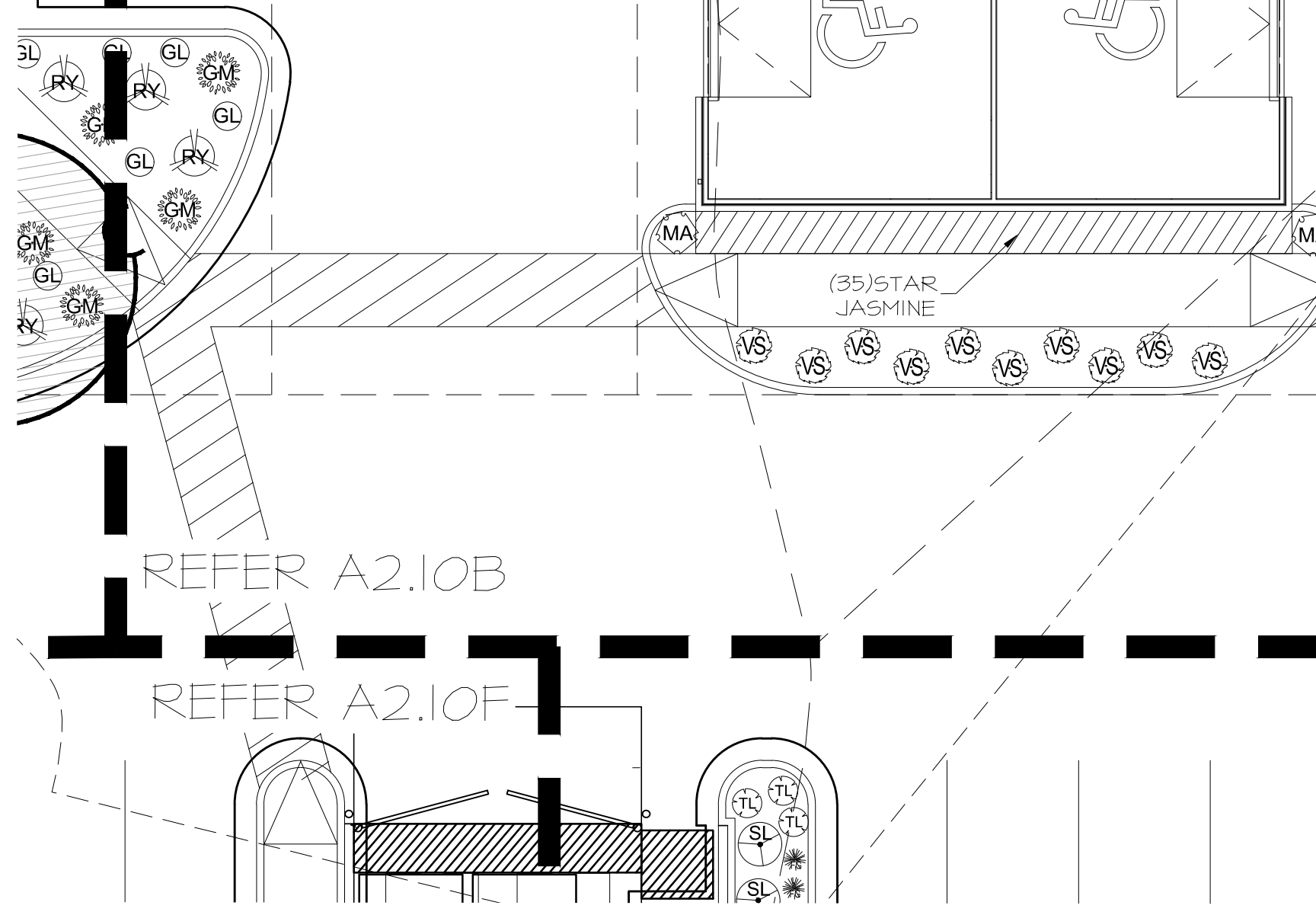
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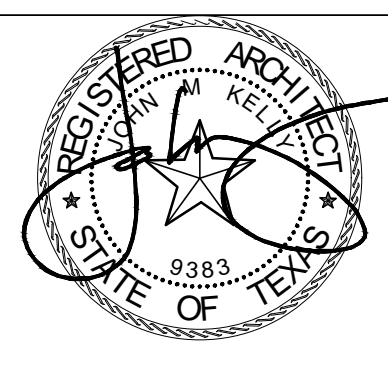


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SHEET	A2.40B

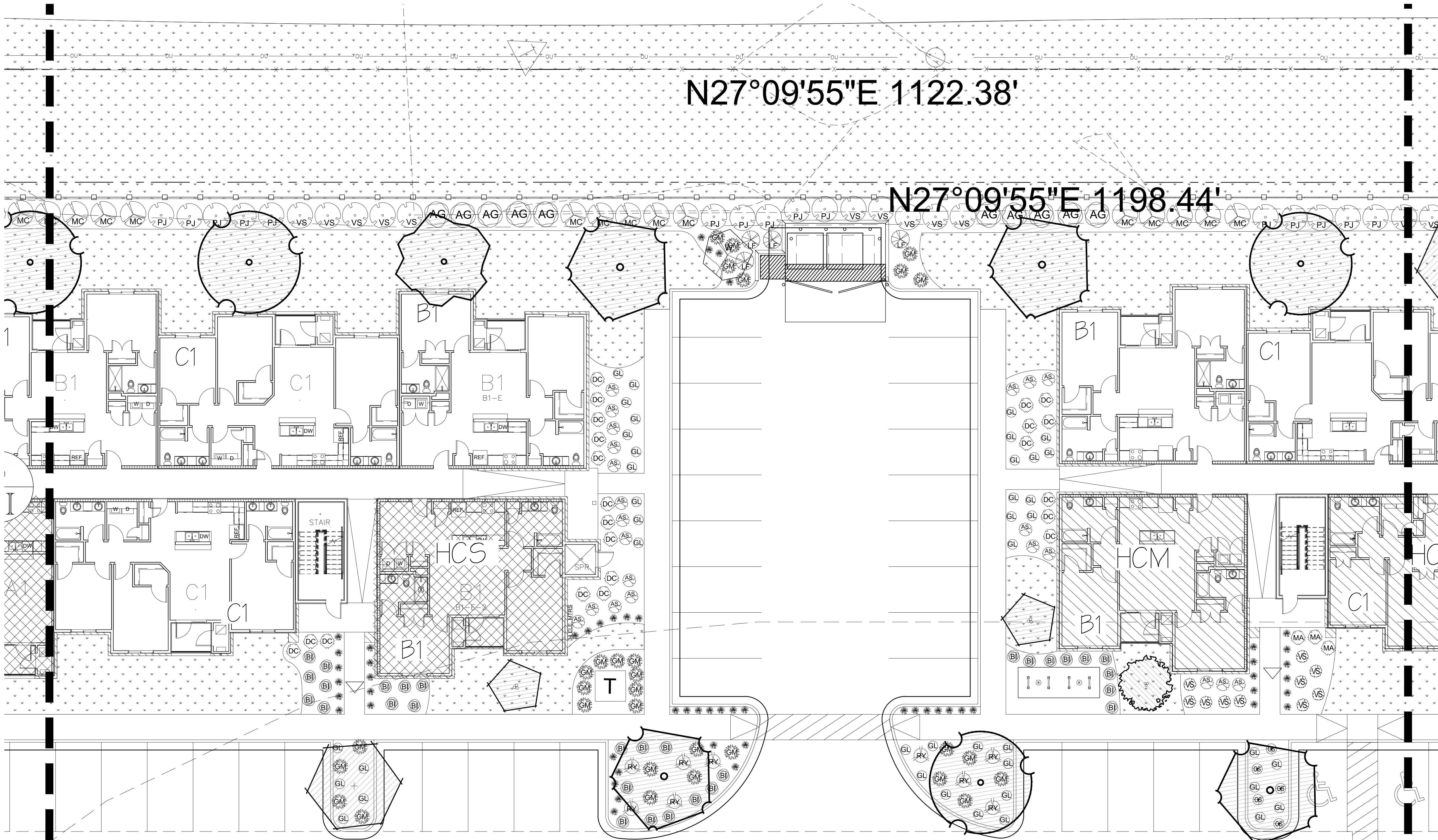
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LANDSCAPE PLAN



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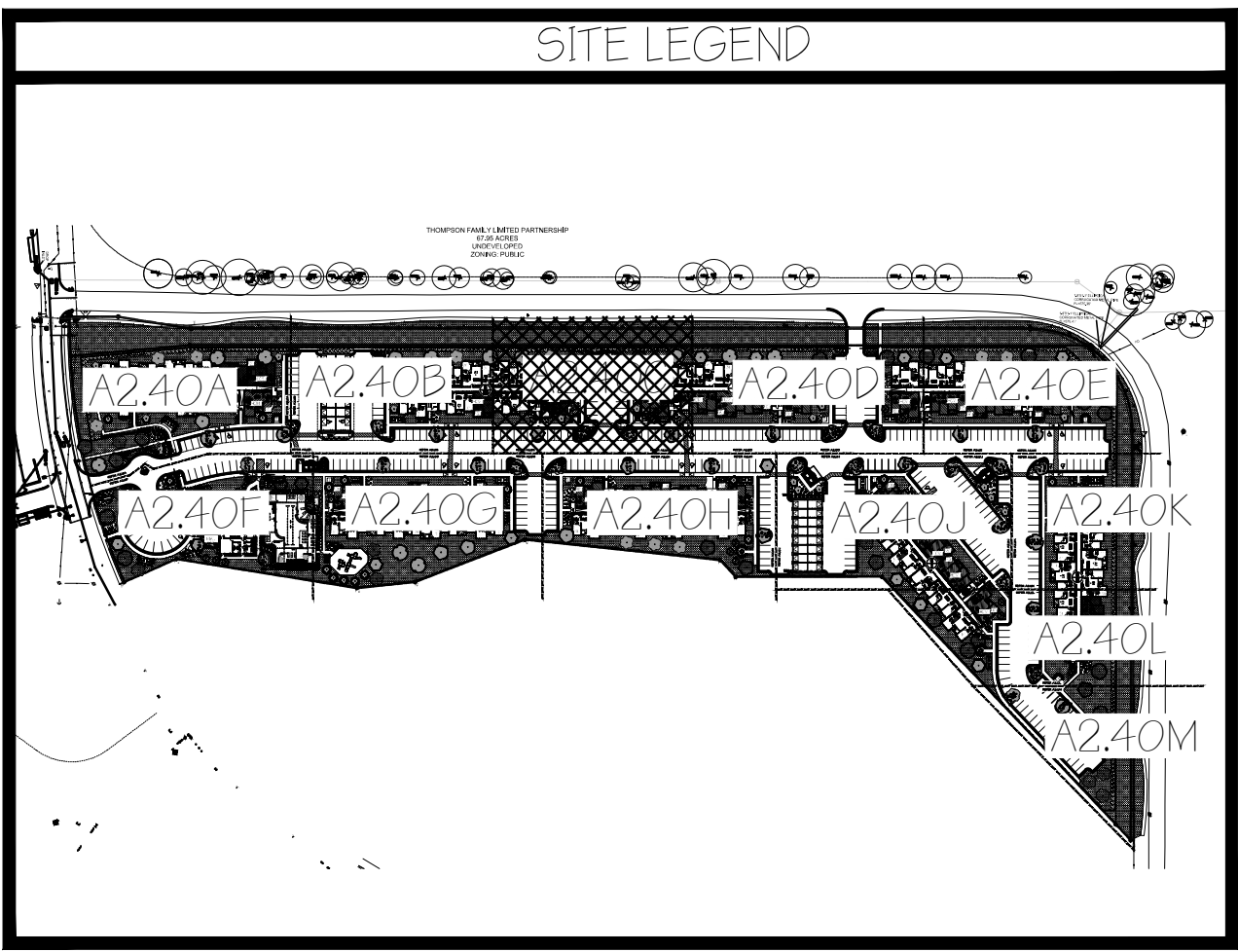
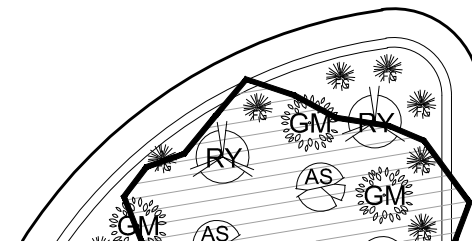
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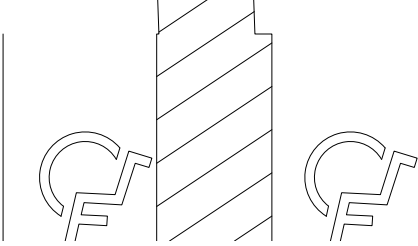
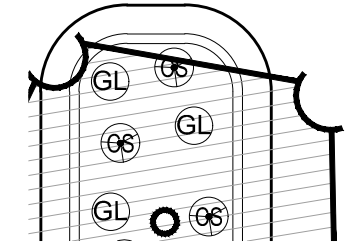
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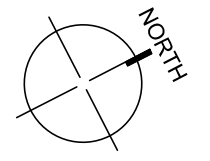
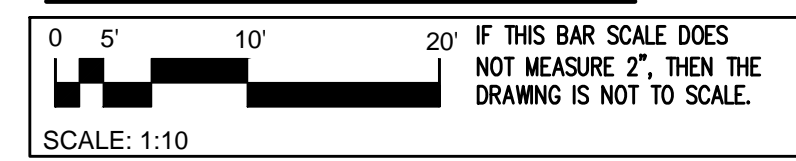


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PARTIAL "C"
LANDSCAPE PLAN



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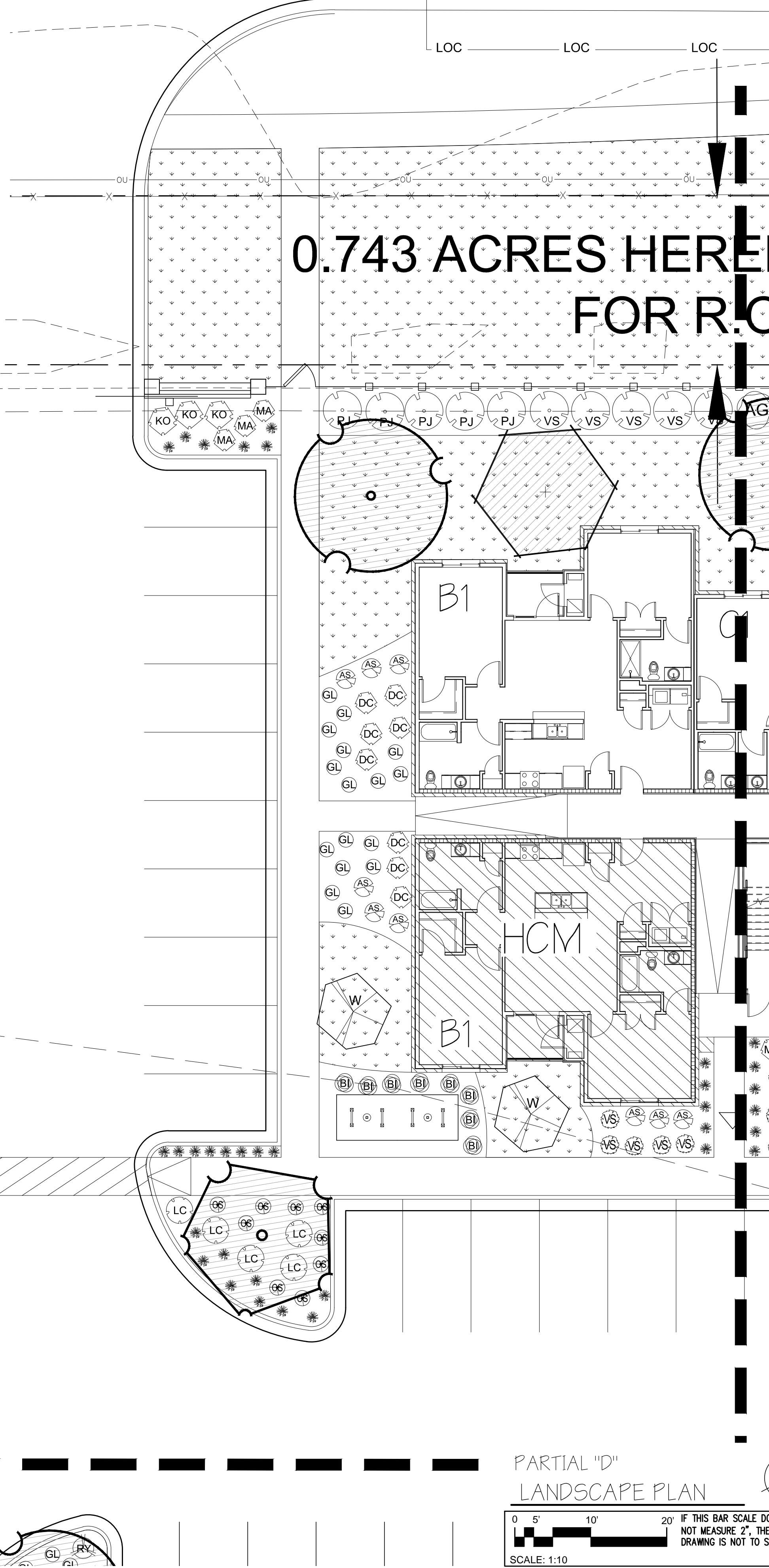
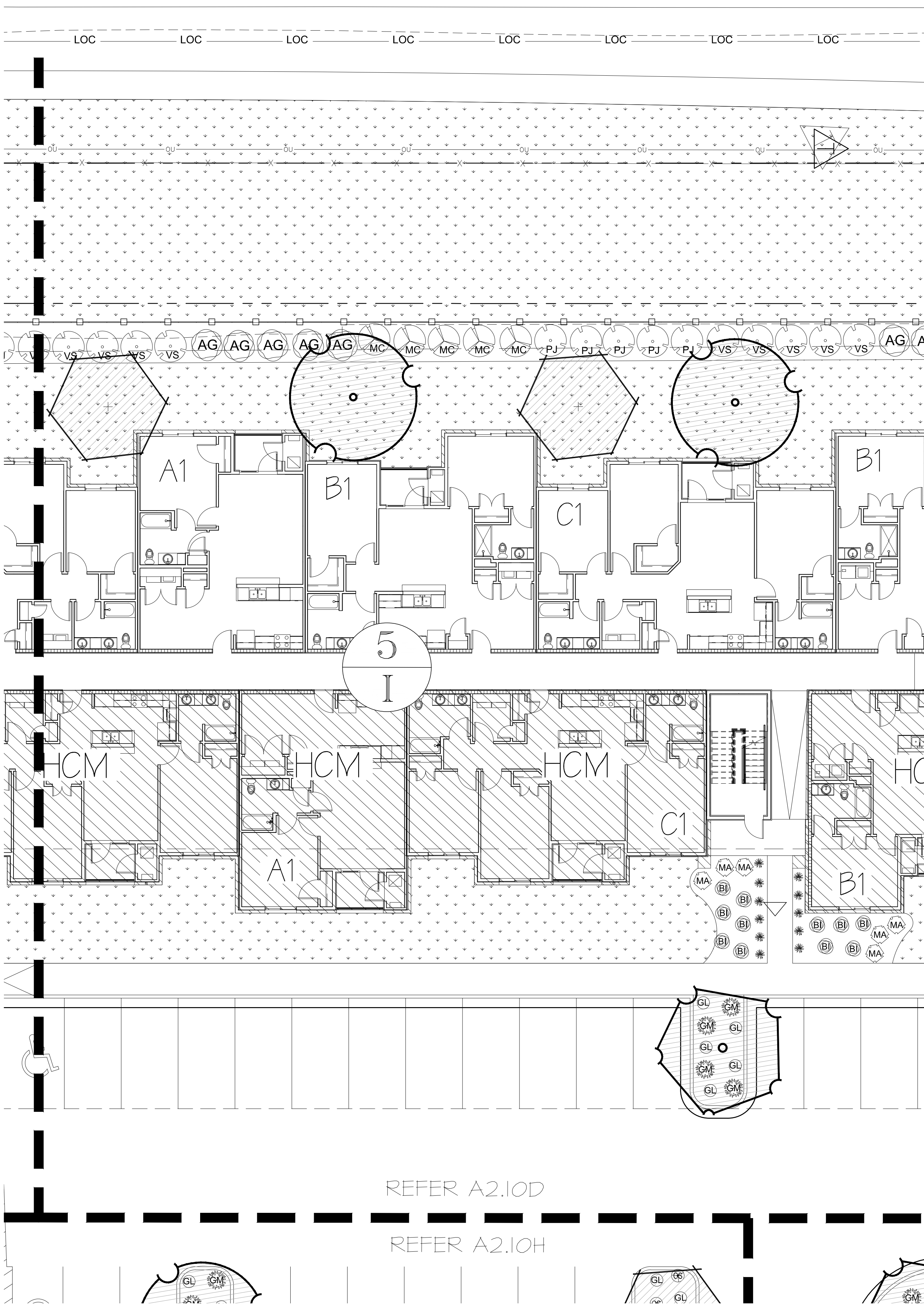
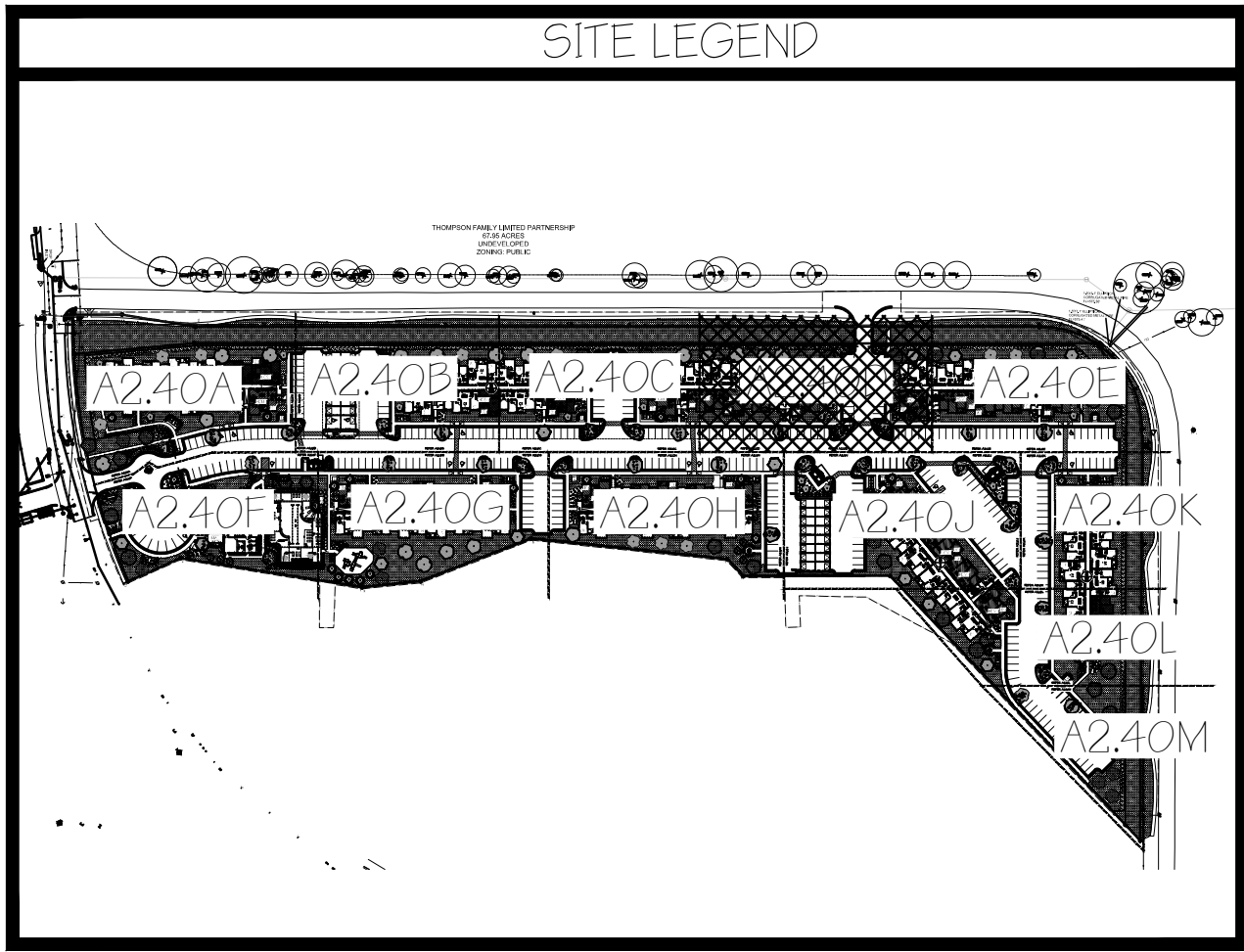
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DESCRIPTION
PARTIAL "C"
LANDSCAPE PLAN

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NUCKOLS
(R.O.W. WIDTH VARIATION)



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FOR R.C.

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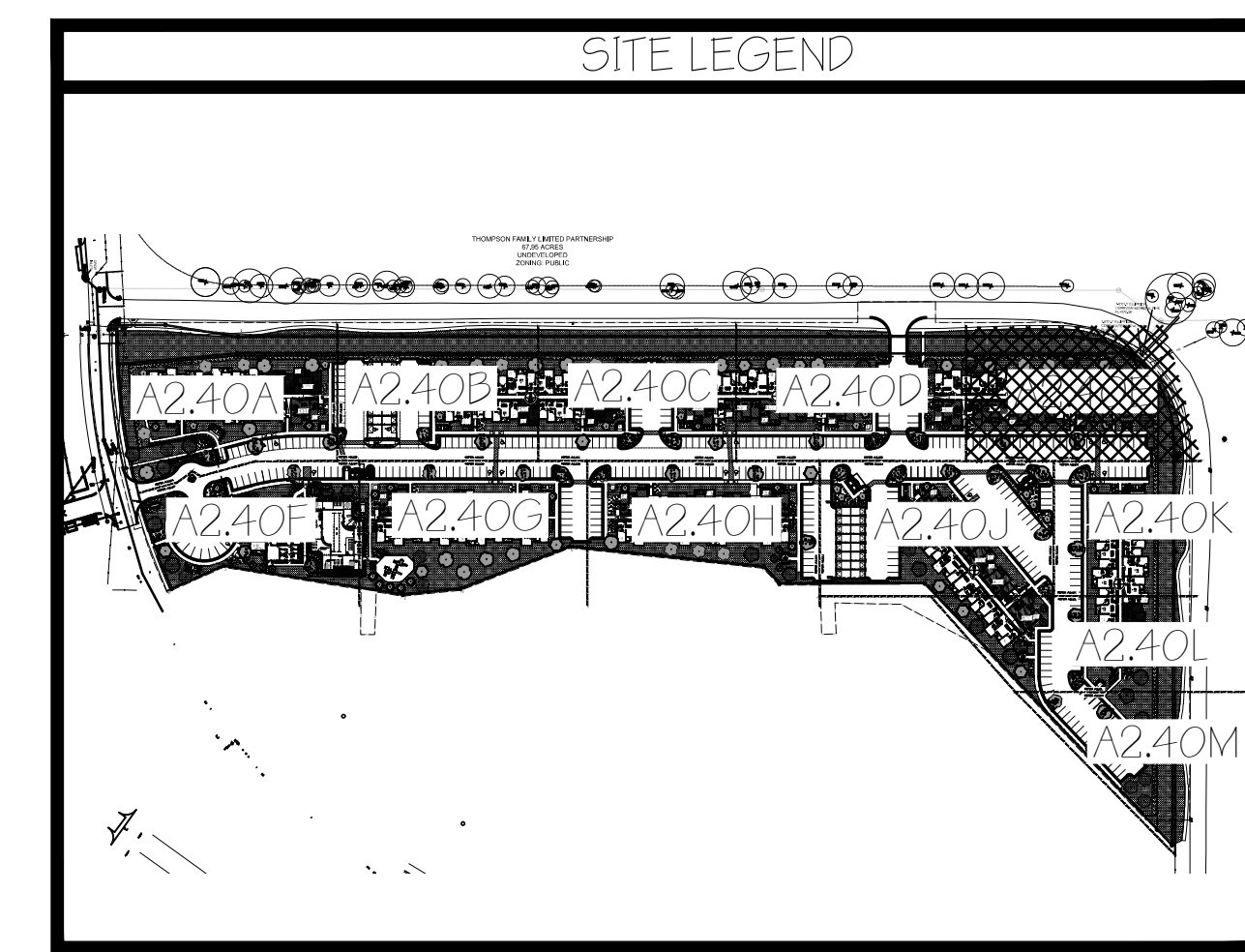
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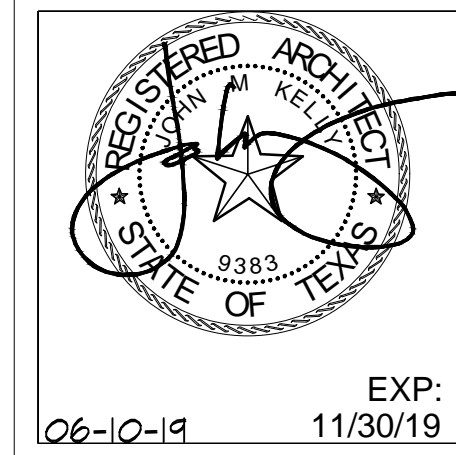
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DATE	06/10/19
DESCRIPTION	PARTIAL "D" LANDSCAPE PLAN
SHEET	A2.40D

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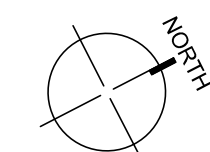
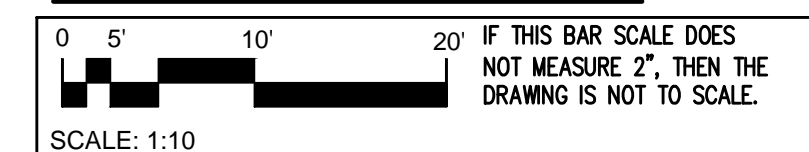
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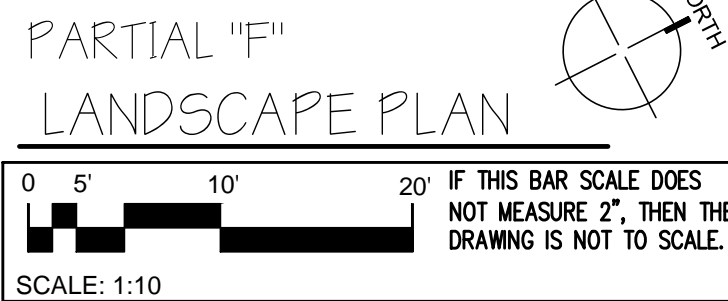
DATE 06/10/19

DESCRIPTION
PARTIAL "E"
LANDSCAPE PLAN

SHEET

PARTIAL "E"
LANDSCAPE PLAN





MB

JMK

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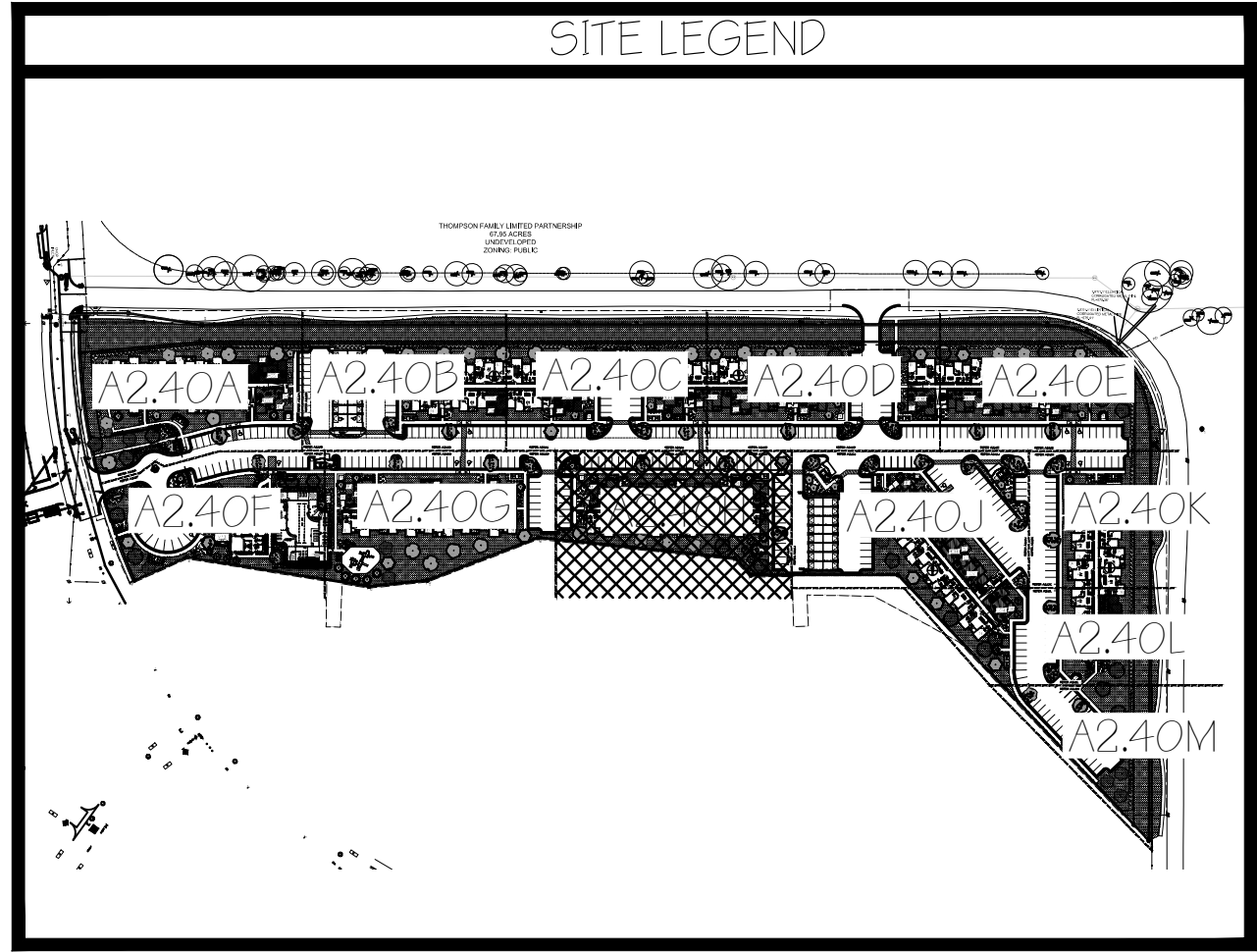
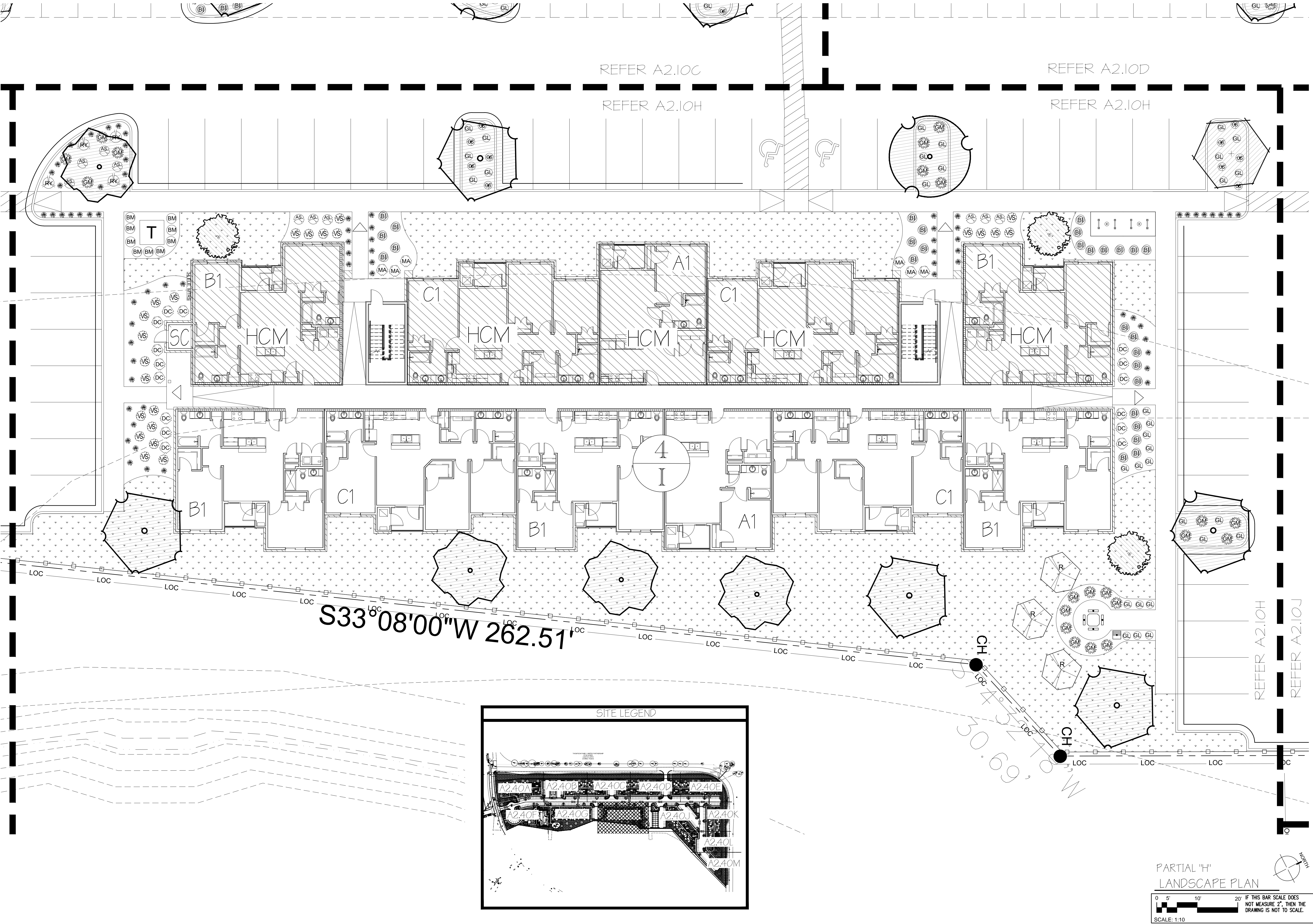
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DESCRIPTION

PARTIAL "G"

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PARTIAL "H"
LANDSCAPE PLAN

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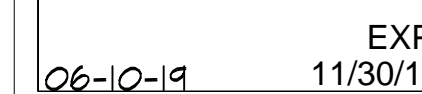
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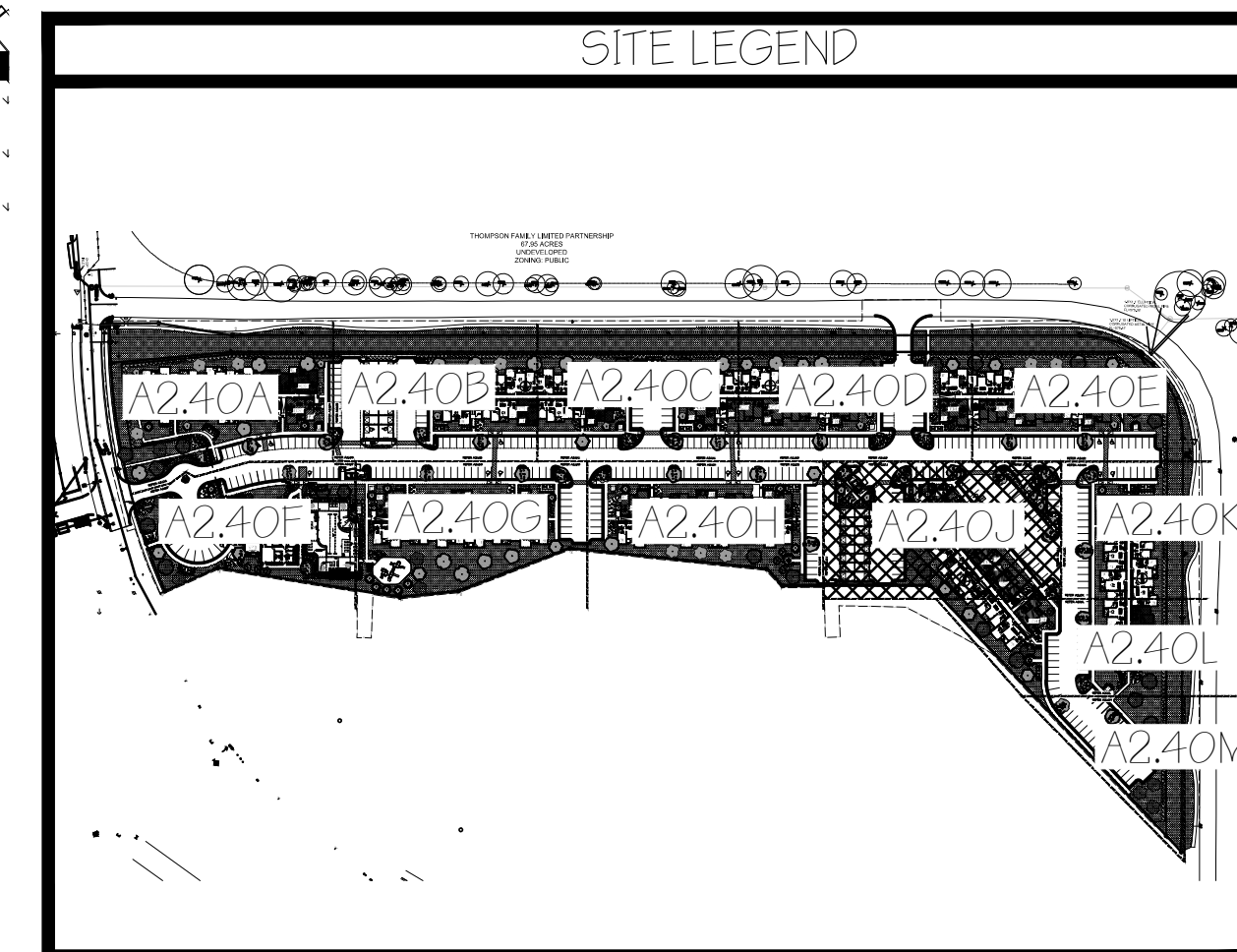
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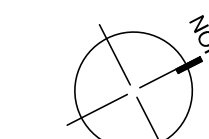
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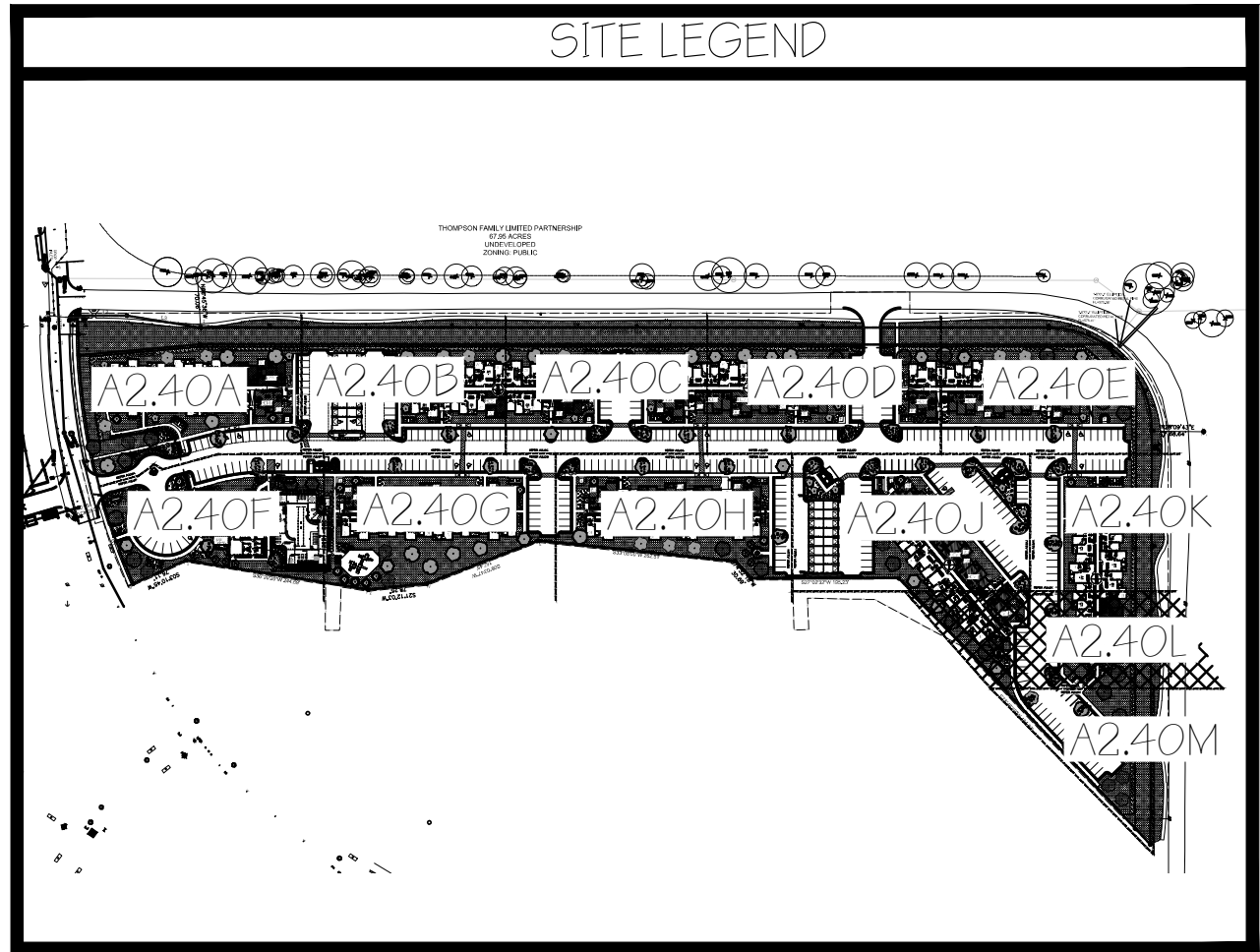
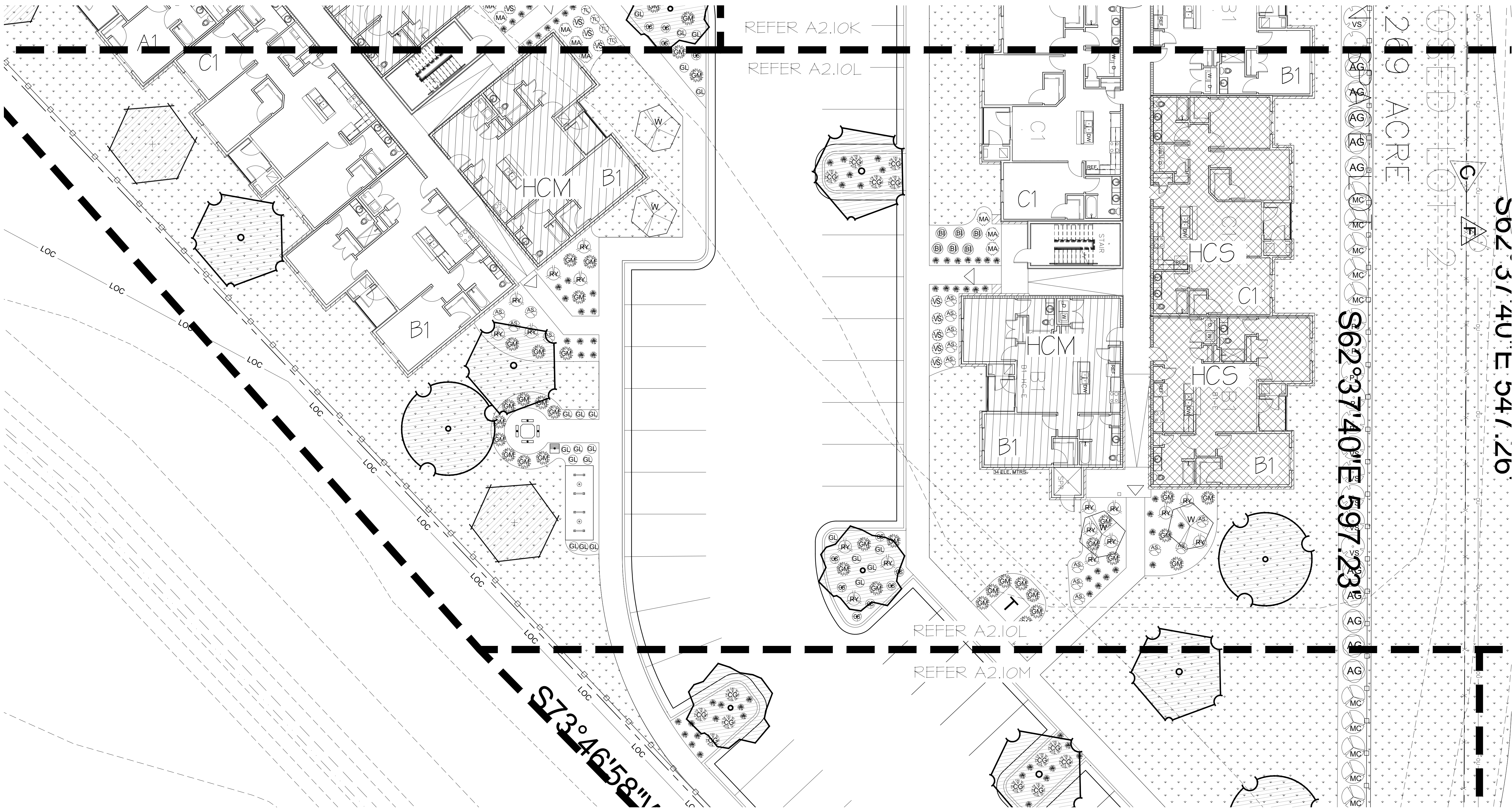
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SITE LEGEND



PARTIAL "J"
LANDSCAPE PLAN





PARTIAL "L"
LANDSCAPE PLAN



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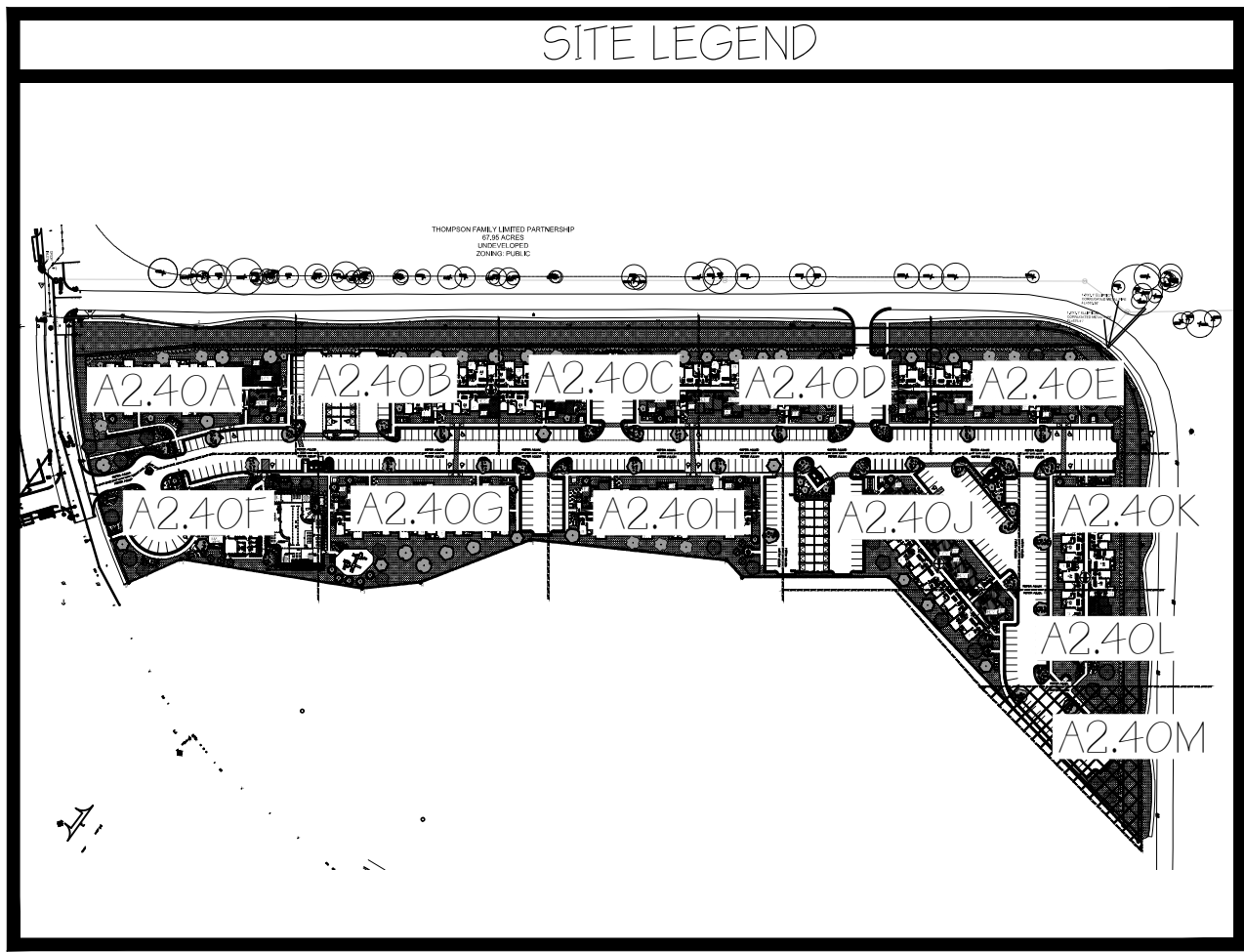
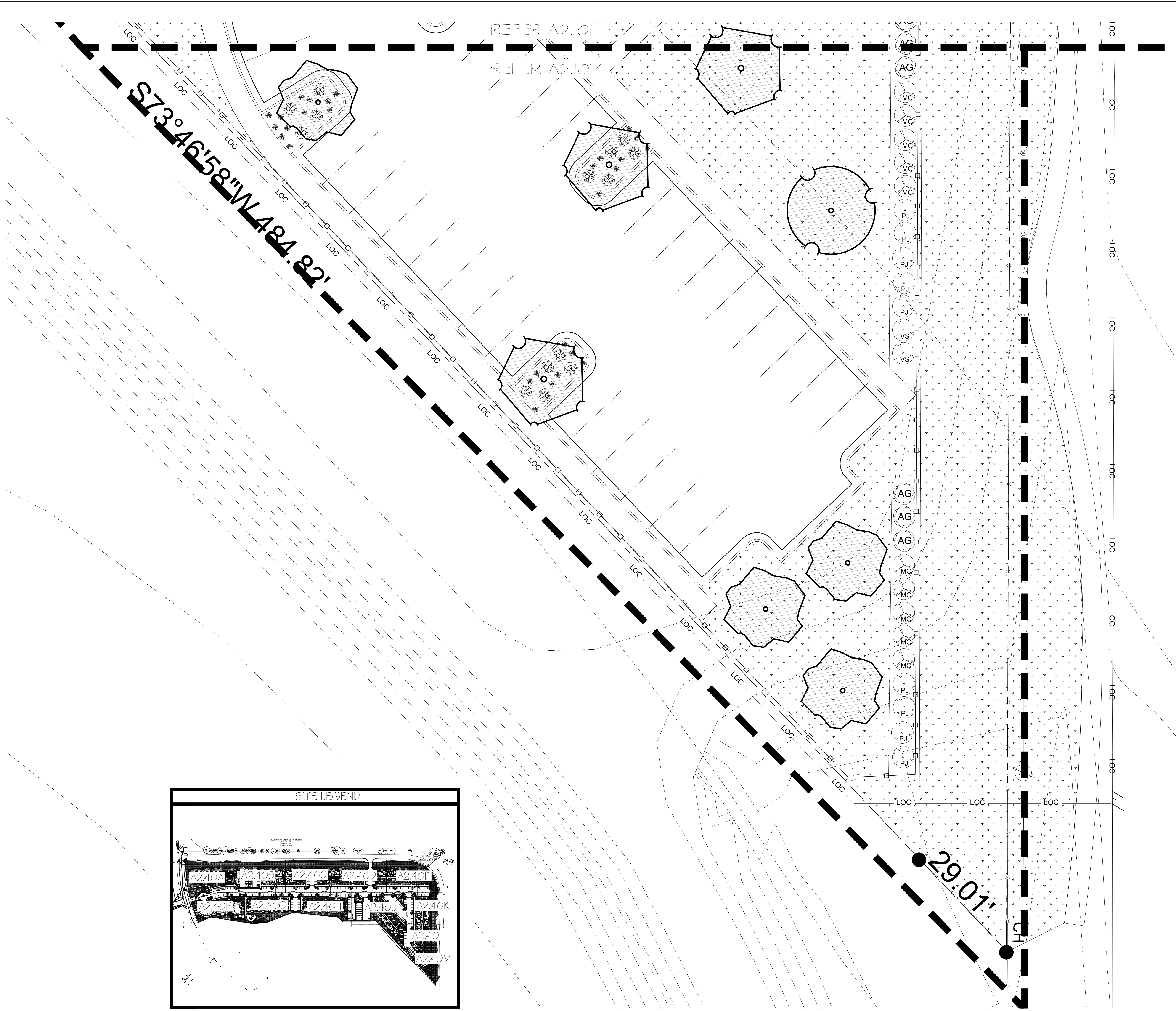
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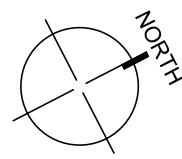
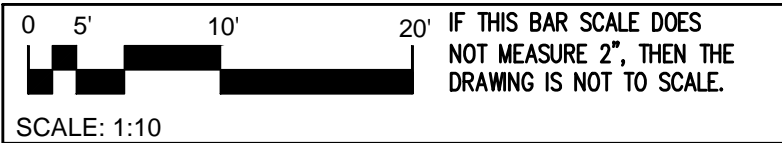
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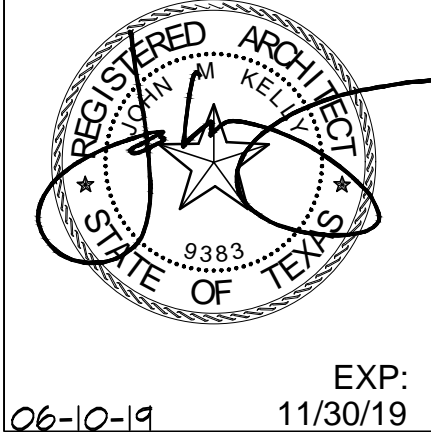
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PARTIAL "M"
LANDSCAPE PLAN



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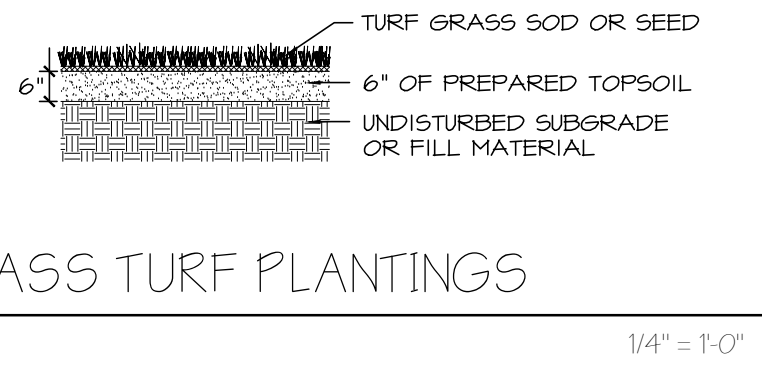
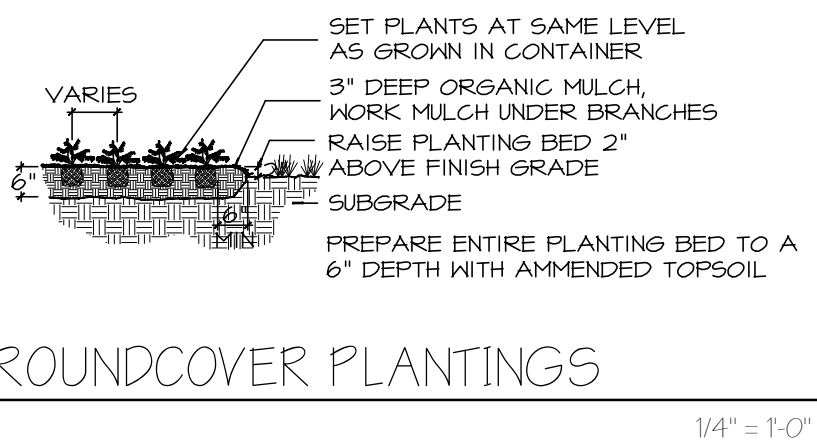
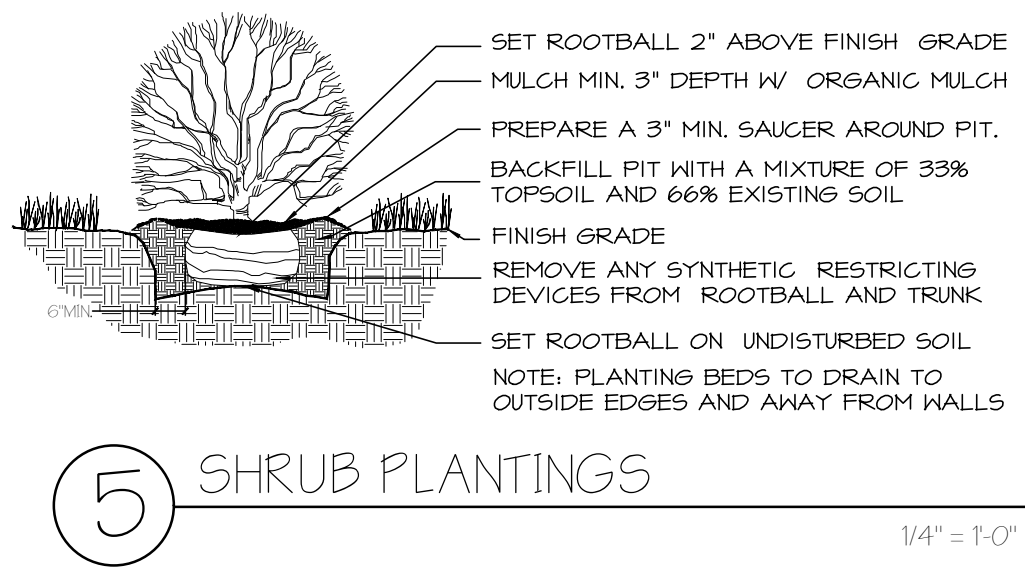
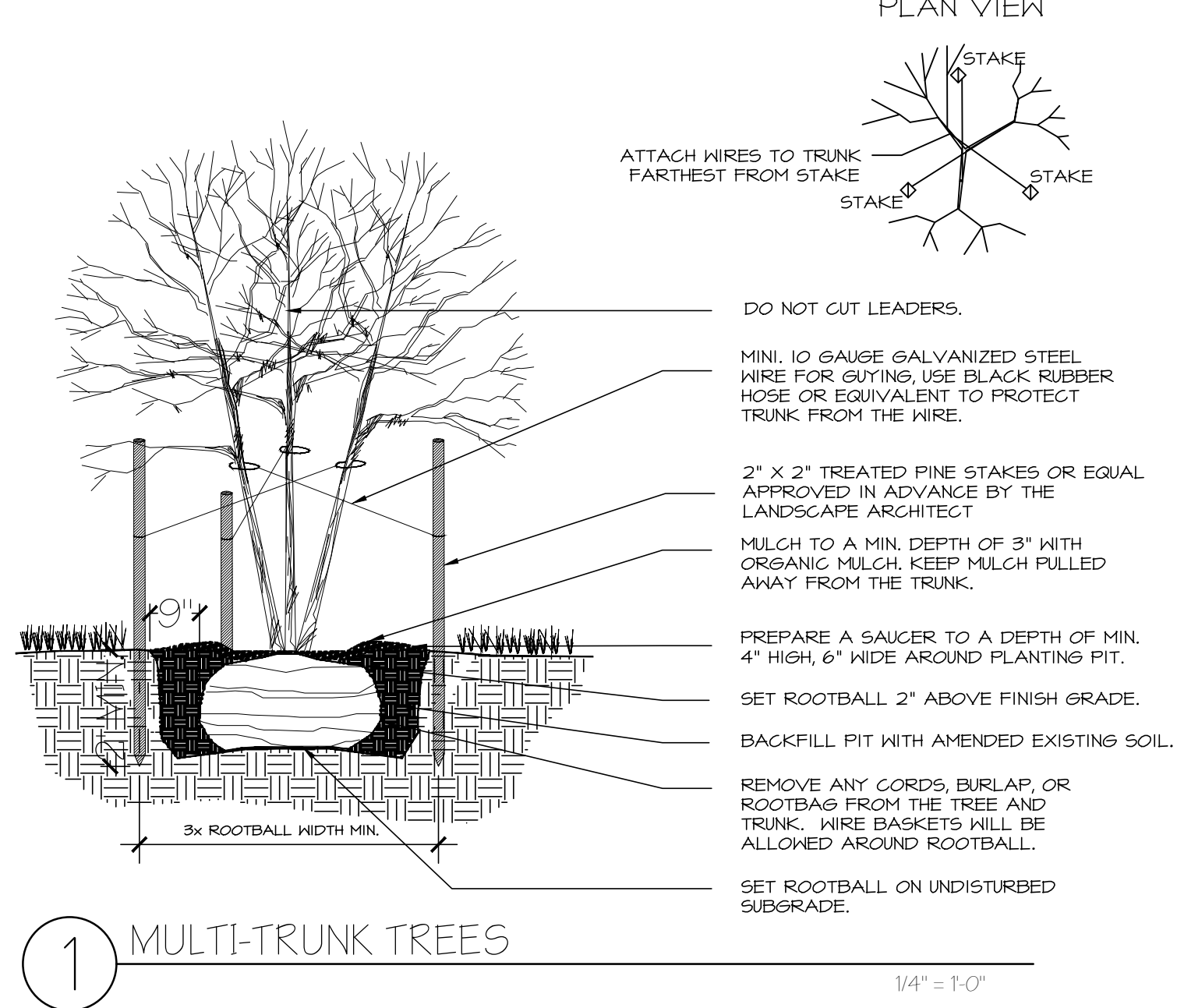
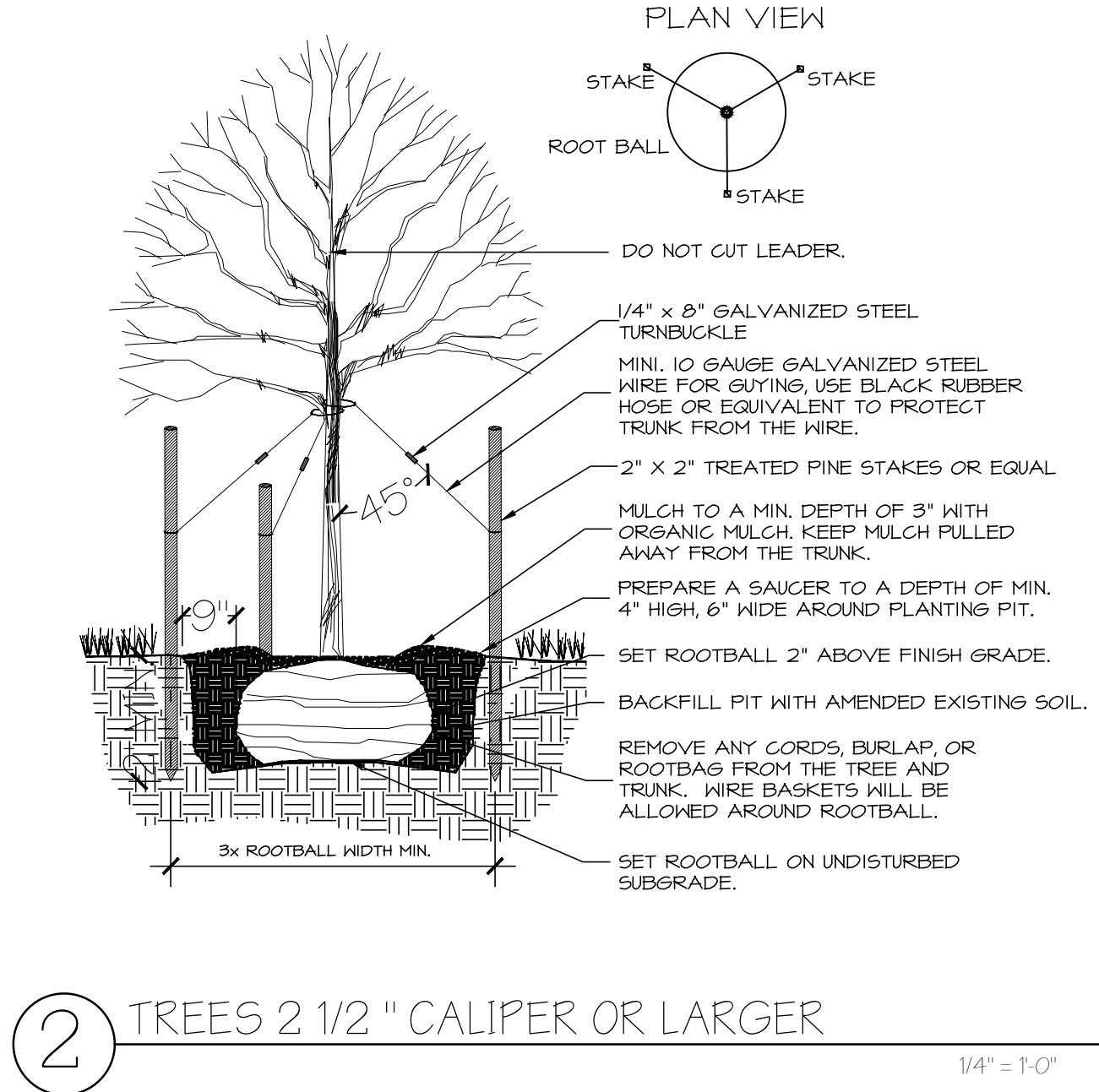
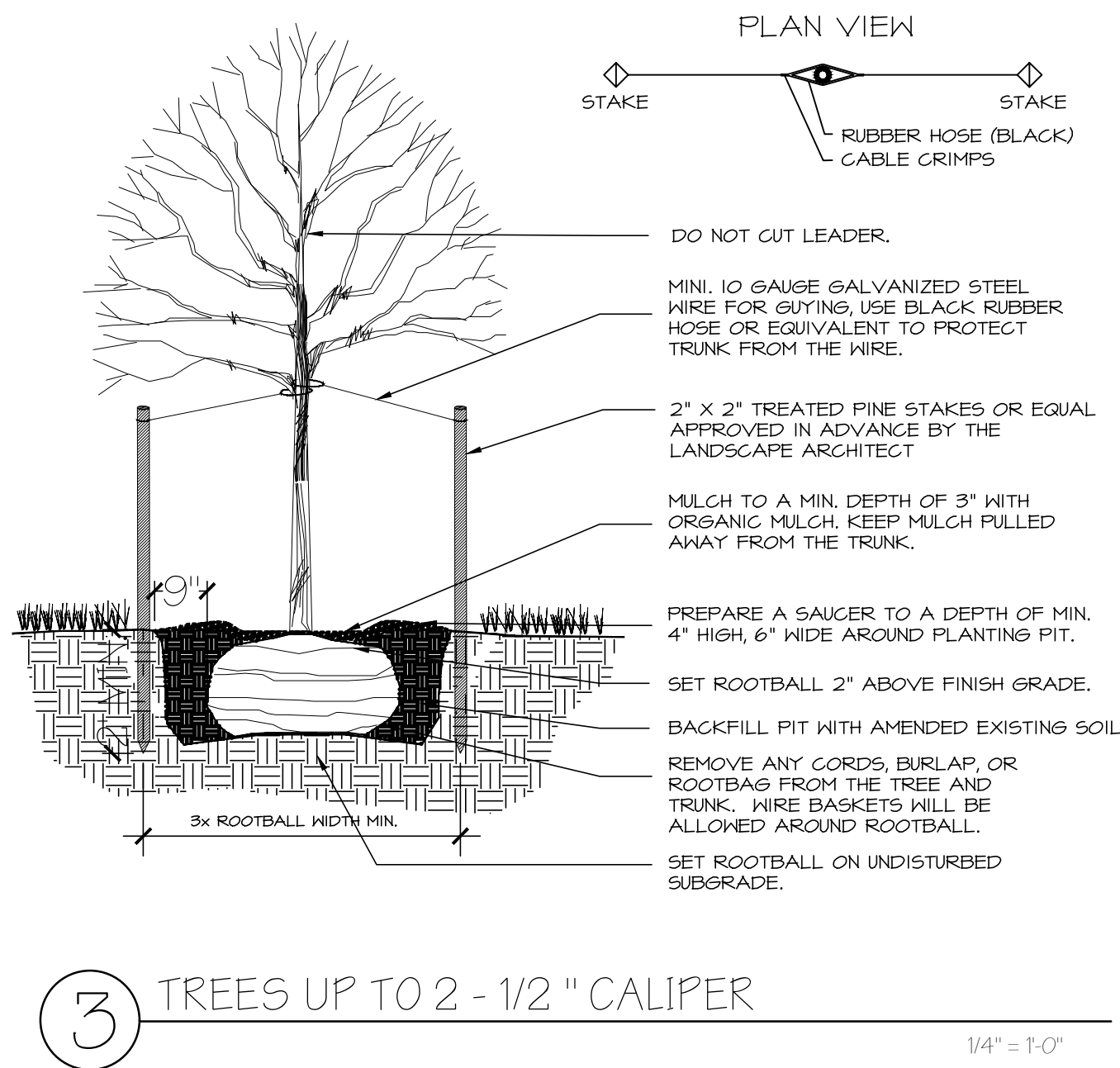
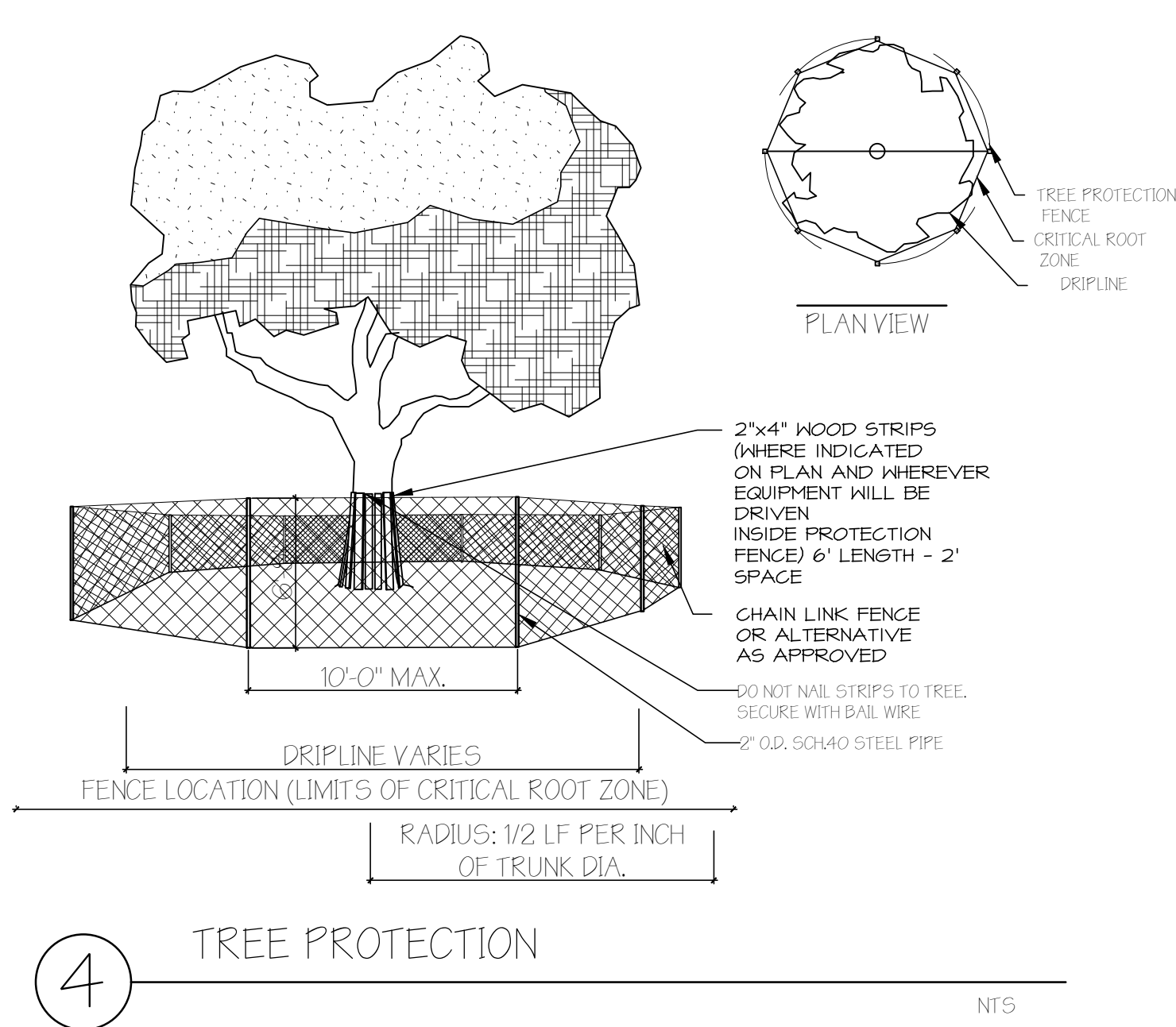
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DATE 06/10/19		
DESCRIPTION PARTIAL "M" LANDSCAPE PLAN		
SHEET A2.40M		



LANDSCAPE MAINTENANCE NOTES:

- The owner shall be responsible for:
1. The regular maintenance of all required landscape areas and plant materials in a vigorous and healthy condition, free from diseases, pests, weeds, and litter. This maintenance shall include weeding, watering, fertilization, pruning, mowing, edging, mulching or other needed maintenance, in accordance with generally accepted horticultural practices.
 2. The repair or replacement of required landscape structures (walls, fences, etc.) to a structurally sound condition.
 3. The regular maintenance, repair, or replacement, where necessary, of any landscape required by City Code.
 - (a) Required plant materials, if dead, diseased, or severely damaged, shall be removed by the owner as soon as possible, but no later than 60 days after notification. All such plants shall be replaced within six months of notification or by the next planting season, whichever.
 - (b) Replacement species must be the same size and species as shown on the approved landscape plan or must be equivalent in terms of quality and size. Such replacement will not be considered an amendment to the approved plan.

LANDSCAPE NOTES:

1. Refer to drawings in this set.
2. The General Contractor is responsible for grading all landscape areas four inches below required finish grades. General Contractor shall rake all landscape areas prior to addition of topsoil in those areas and is responsible for removal of all construction debris. Landscape contractor shall remove all rocks, clods and other material not greater than one inch diameter. Landscape contractor shall remove all noxious weeds and other plant material not shown in landscape plan. Landscape contractor shall revise grades to ensure smooth transitions between planting beds and lawn areas.
3. Examine finish surface, grades, topsoil quality and depth, comes first. Do not start any work until unsatisfactory conditions have been corrected. Verify limits of work before starting.
4. Contractor to repair all damages to existing conditions and is responsible for satisfactory performance.
5. Contractor shall maintain positive drainage in lawn areas and fine grade lawn areas to provide a smooth and continual grade free of irregularities or depressions.
6. All plant masses to be contained within a mulch bed.
7. Plant Material: All plants shall be healthy and vigorous and representative of the species specified. All plants shall be well branched, proportioned, free of all insects, diseases, bark bruises, scrapes, cracked branches and physical damage.
8. Contractor shall guarantee all plant material including turf to be alive and be in a healthy, vigorous condition for a period of one year from the date of completion of the entire project or other date(s) established by the Landscape Architect, except valve circuit, as may result from neglect or damage by the owner, damage by others or unusual phenomena beyond the contractors control.
9. Contractor shall replace all dead, unhealthy, and plant materials that have partially died pursuant to the to the condition of the warranty at no expense to the owner. Re-warrant replacement plants for an additional one year under the same terms as the original warranty. Plant materials used for replacement shall be the same species, size and shape.
10. Planting Period: Execute all lawnwork and planting prior to request for Certificate of Occupancy or as otherwise directed by the owner. 11. Installation of plant material shall be in accordance with the American Nursery and Landscape Association landscape standards and with these plans. 12. The branches of deciduous trees and shrubs may be selectively thinned by up to 1/3 in accordance with good horticulture practices; however, in no case shall trimming result in reducing the overall size of the plant below that specified.
13. Contractor to familiarize himself with all underground utilities. Contractor to notify Landscape Architect of any underground obstructions and receive approval if necessary to move plants from locations shown on plans.
14. Landscape materials shall be located so as not to obstruct visual or physical access to fire hydrants. Locate all landscape materials in conformance with utility company requirements of transformers, meters, overhead lines, etc. See utilities plans.
15. Remove all excess organic material from the site and dispose of it in conformance with all local, state and federal requirements.
16. Fertilize all plant areas according to good horticultural practice for each plant type and soil condition.
17. The General Contractor is responsible for existing tree removal unless otherwise directed by the owner.
18. Fill all new ground cover and shrub beds within limits of construction with mulch three inches deep. Refer mulch specification below.
19. Quantities shown are intended to assist contractors in evaluating their own take offs and are not guaranteed as accurate representations of required materials. The contractor shall be responsible for his bid quantities and is required to reflect the design intent with full landscape beds according to specifications.
20. Coordinate landscape installation with installation of underground sprinkler system.

21. Where proposed tree locations occur under existing overhead utilities or crowd existing trees notify the Landscape Architect to adjust tree locations.
22. Contractor shall provide steel edging at all locations where shrub beds meet grass areas. Refer specifications.
23. Specification - Topsoil: Clean, fertile, friable natural loam free of stones and lumps (over 1" diameter), clay weeds, weed seeds, sticks, caliche, plants, debris and substances which will be harmful to plants, characteristic of productive soils in the vicinity and from one site only.
24. Specification - Steel Edging: 1 1/8" gauge X 4 1/2" painted steel edging free from rust with steel stakes spaced at 4' O.C. and at butt intersections and no further than 6' from ends, with interlocking and configuration and integral deformations to hold stakes.
25. Specification - Mulch: Fine grind hardwood mulch by "Living Earth" (shredded) or equivalent approved in advance by the Landscape Architect.
26. Specification - Back fill Mixture: 75 % topsoil with 25 % compost as manufactured by "Back to Earth, Inc.", Dallas, Texas or equal approved in advance by Landscape Architect.
27. An automatic irrigation system is required as part of this contract. The irrigation system must provide 100 % coverage with turf zones separated from shrub planting zones, reflect the landscape design and distribute appropriate amounts of water to each specified plant type. Contractor will submit shop drawings to the design Landscape Architect for review prior to installation. Refer irrigation guidelines this sheet.
28. The landscape contractor is responsible for all landscape maintenance and weed control until a maintenance contract is awarded by the owner.
29. All areas between property line and adjoining streets shall be mowed.
30. All landscape areas will be protected by a six (6) inch curb or other approved methods.

IRRIGATION NOTES:

- Automatic irrigation systems shall comply with the following guidelines.
1. Adjustable flow controls shall be required on circuit remote control valves. Pressure regulation component(s) shall be required where static pressure exceeds manufacturer's recommended operating range.
 2. Valves and circuits shall be separated based on water use, so that turf areas can be watered separately from shrub and ground cover areas.
 3. Sprinkler heads shall have matched precipitation rates within each control.
 4. Serviceable check valves shall be required where elevation differential may cause low head drainage adjacent to paving areas.
 5. Sprinkler head spacing shall be designed for head-to-head coverage or heads shall be space as per manufacturer's recommendations and adjusted for prevailing winds. The system shall be designed for minimum run-off and minimum overspray onto non-irrigated areas, (i.e. paving and structures).
 6. All automatic irrigation systems shall be equipped with a controller capable of dual or multiple programming. Controllers shall have multiple cycle start capacity and a flexible calendar program, including the capability of being set to water every five days. All automatic irrigation systems shall be equipped with a rain sensor shut-off device.
 7. Irrigation construction plans shall include a water budget. A laminated copy of the water budget shall be permanently installed inside the irrigation controller door. Water budget shall include:
 - a) Estimated monthly water use (in gallons per application) and the area (in square feet) irrigated.
 - b) Precipitation rates for each valve circuit.
 - c) Monthly irrigation schedule for the plant establishment period (first three months) and recommended yearly watering schedule, including seasonal adjustments.
 - d) Location of emergency irrigation system shut-off valve.

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AJS

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JMK

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11/30/19

LDG DEVELOPMENT

1469 SOUTH FOURTH STREET, LOUISVILLE, KY 40208, (P) 502.609.4940

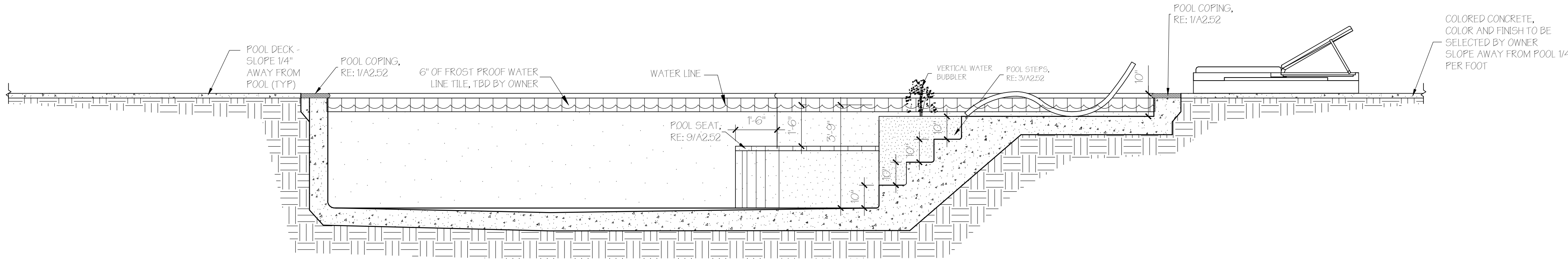
ARCHITECTURE • LAND PLANNING • LANDSCAPE DESIGN • CONSTRUCTION ADMINISTRATION •
KELLY GROSSMAN
A R C H I T E C T S • L L C
2802 ACADIE BOULEVARD, SUITE 100, HOUSTON, TEXAS 77057
PH: +1 281.937.3887
WWW.KELLYGROSSMANARCHITECTS.COM

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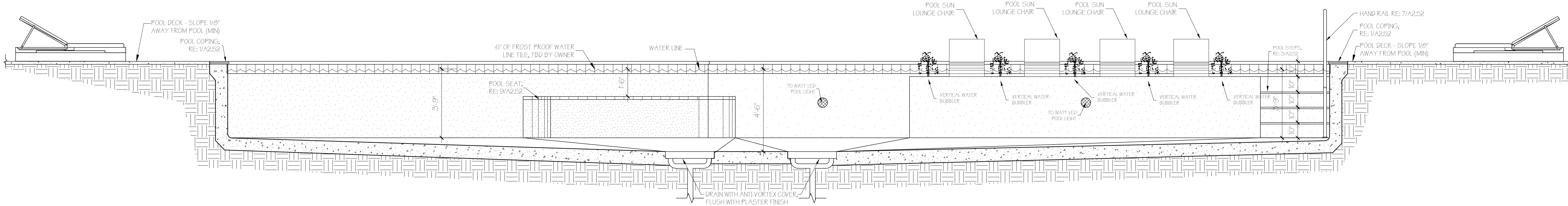
MOONLIGHT
AUSTIN TX

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ISSUED FOR PERMIT 06/10/19		
ISSUED FOR BID		
ISSUED FOR CONSTRUCTION		
DWG NAME BC2-41.dwg		
DATE 06/10/19		
DESCRIPTION LANDSCAPE DETAILS		
SHEET A2.41		

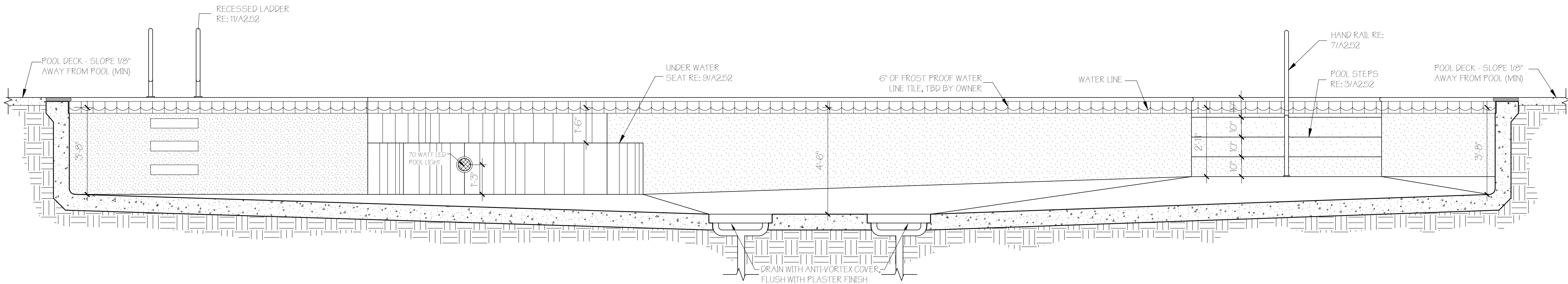




1 MAIN POOL SECTION A
SCALE: 3/8" = 1'-0"



2 MAIN POOL SECTION B
SCALE: 3/8" = 1'-0"



3 MAIN POOL SECTION C
SCALE: 3/8" = 1'-0"

ATTENTION:
The landscape architect assumes no responsibility for the existence or location of any surface or subsurface structures. The contractor is responsible for contacting all agencies and/or owners to verify this information. The contractor shall contact DLO TESS (800-344-8377), or Texas One Call (800-245-4545), or Lone Star (800-669-3344) at least 48 hours before commencing any work that would affect utilities.

POOL SECTIONS
PERMIT NOTE:
POOL TO BE SUBMITTED SEPARATELY

DRAWN BY:
AJS

CHECKED BY:
JMK

PROJECT #:
18-2325

REGISTERED ARCHITECT
KELLY GROSSMAN
STATE OF TEXAS
9383

EXP:
11/30/19

LDG DEVELOPMENT

1469 SOUTH FOURTH STREET, LOUISVILLE, KY 40208, (P) 502.609.4940

ARCHITECTURE • LAND PLANNING • LANDSCAPE DESIGN • CONSTRUCTION ADMINISTRATION •
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MOONLIGHT
AUSTIN TX

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ISSUED FOR PERMIT
06/10/19

ISSUED FOR BID

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DWG NAME

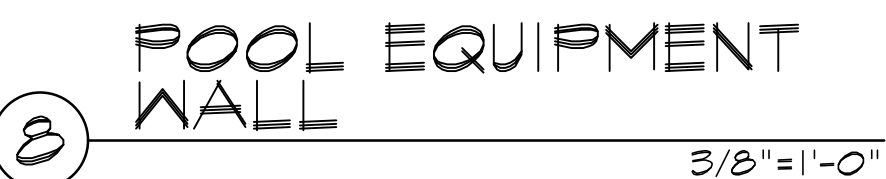
DATE
06/10/19

DESCRIPTION
POOL SECTIONS

SHEET
A2.51

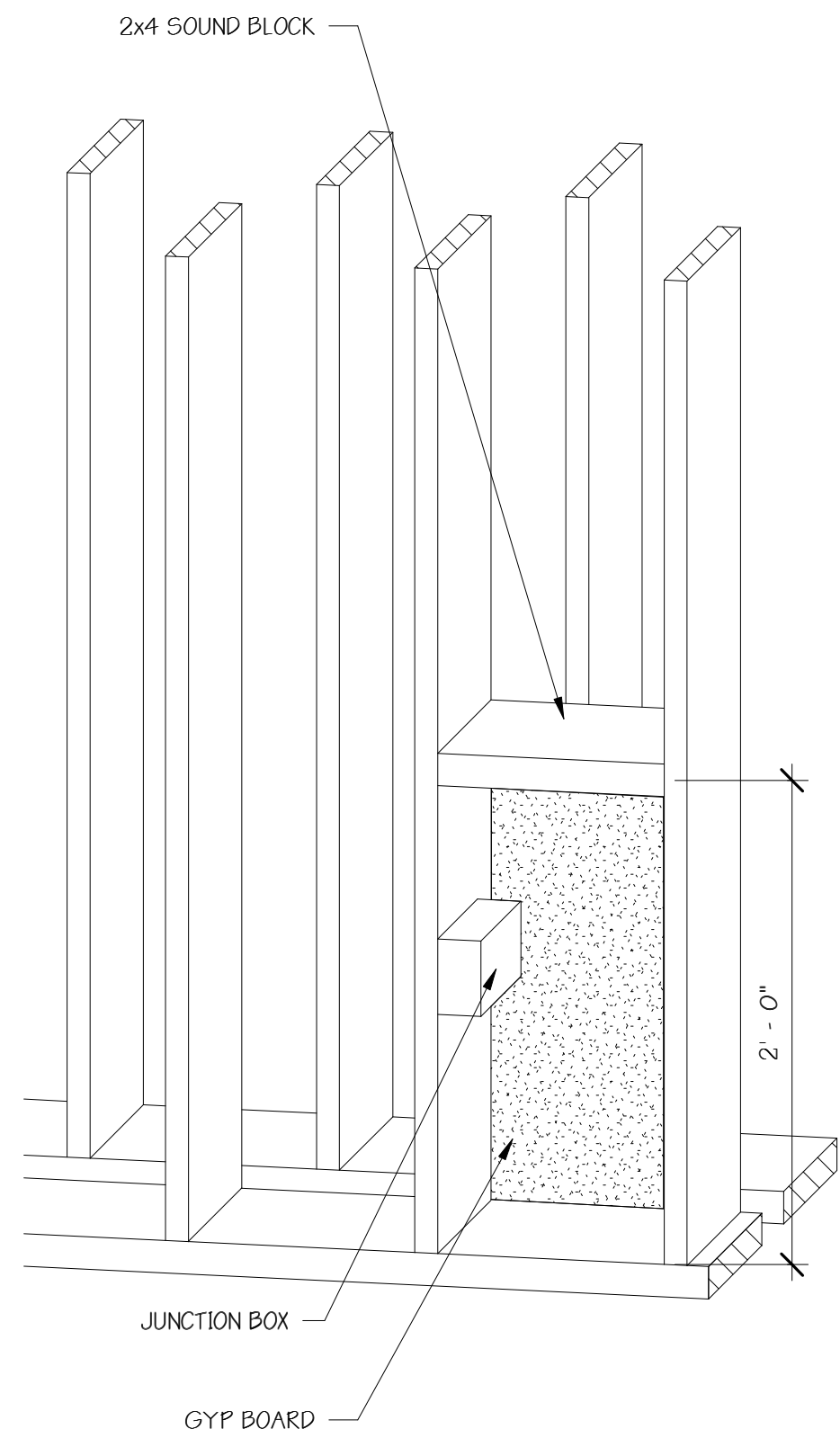


5 POOL AREA
GATE / FENCE 1/2" = 1'-0"

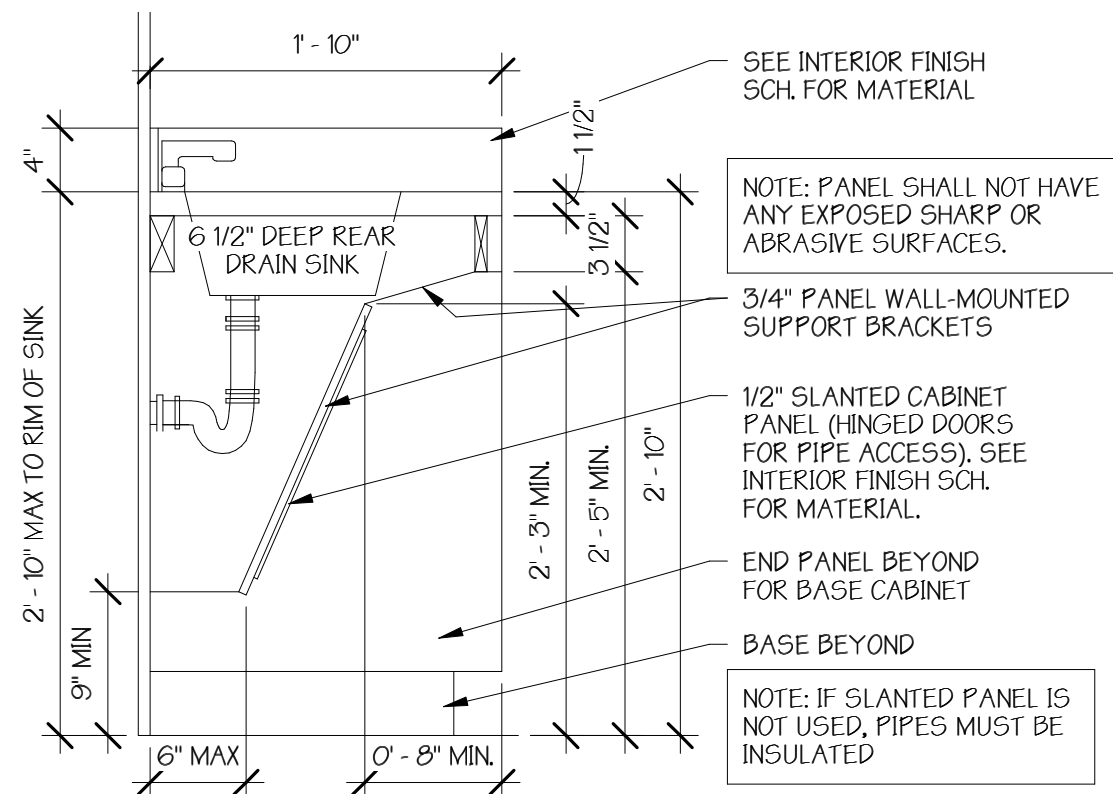


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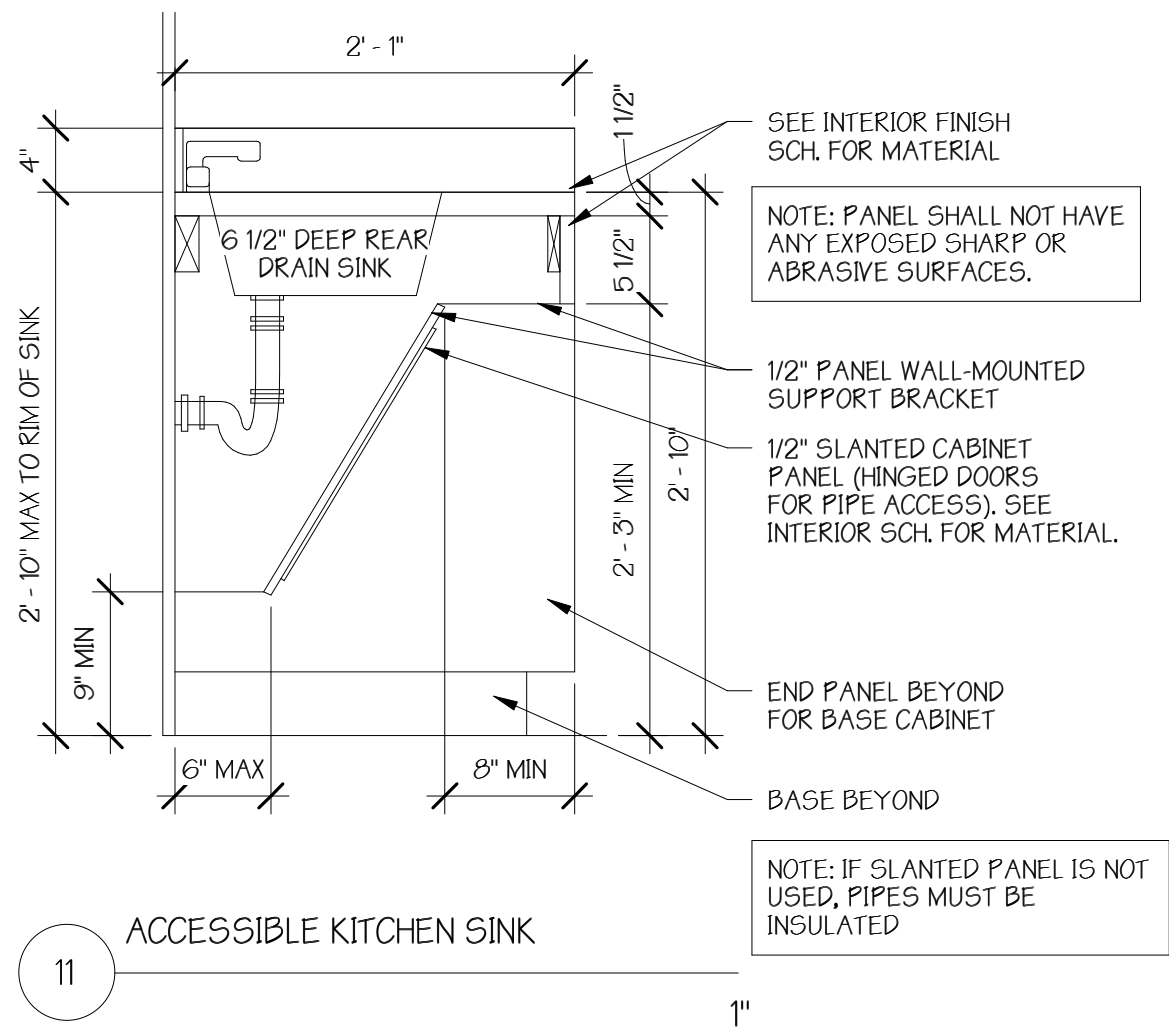
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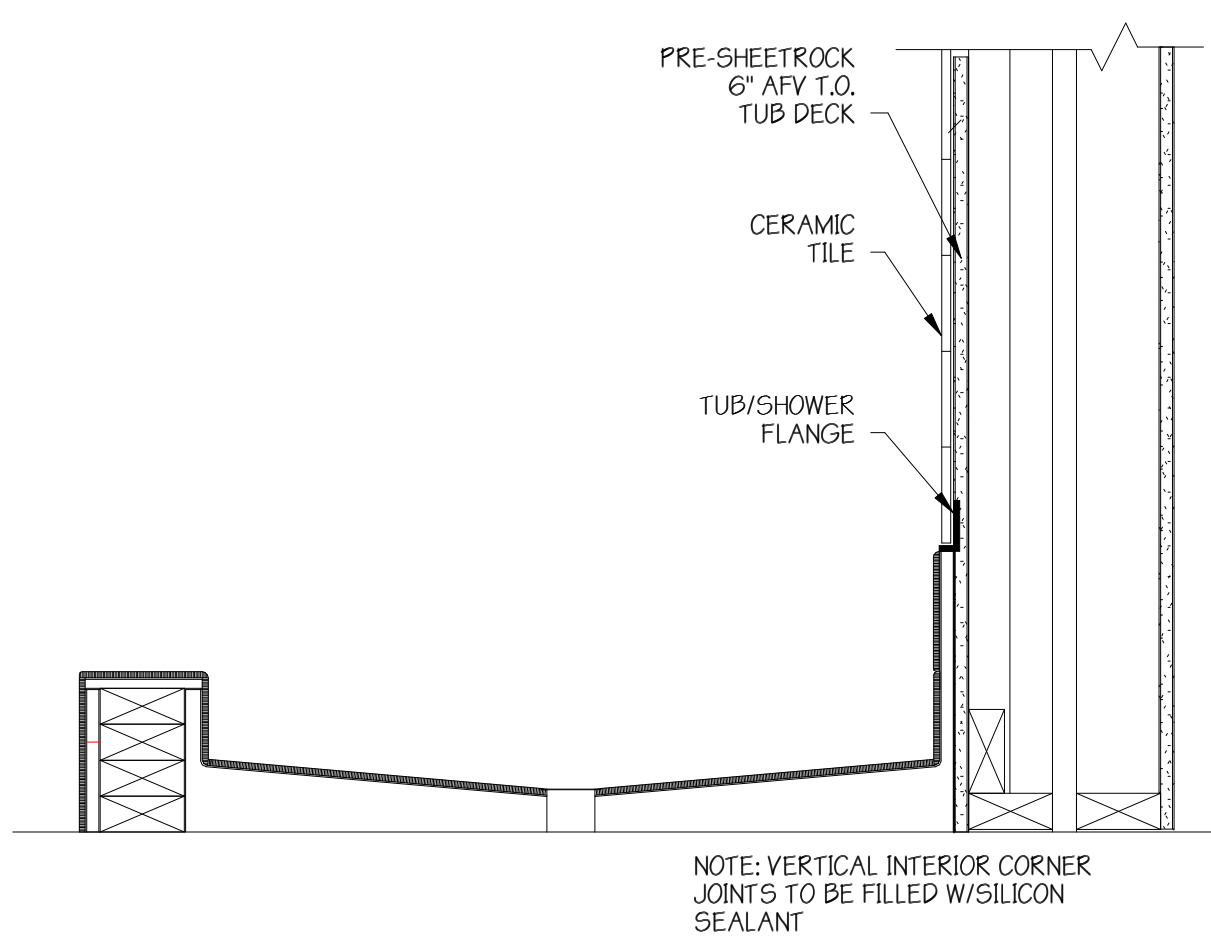
9 SOUNDPROOFING @ JUNCTION BOX 1 1/2"



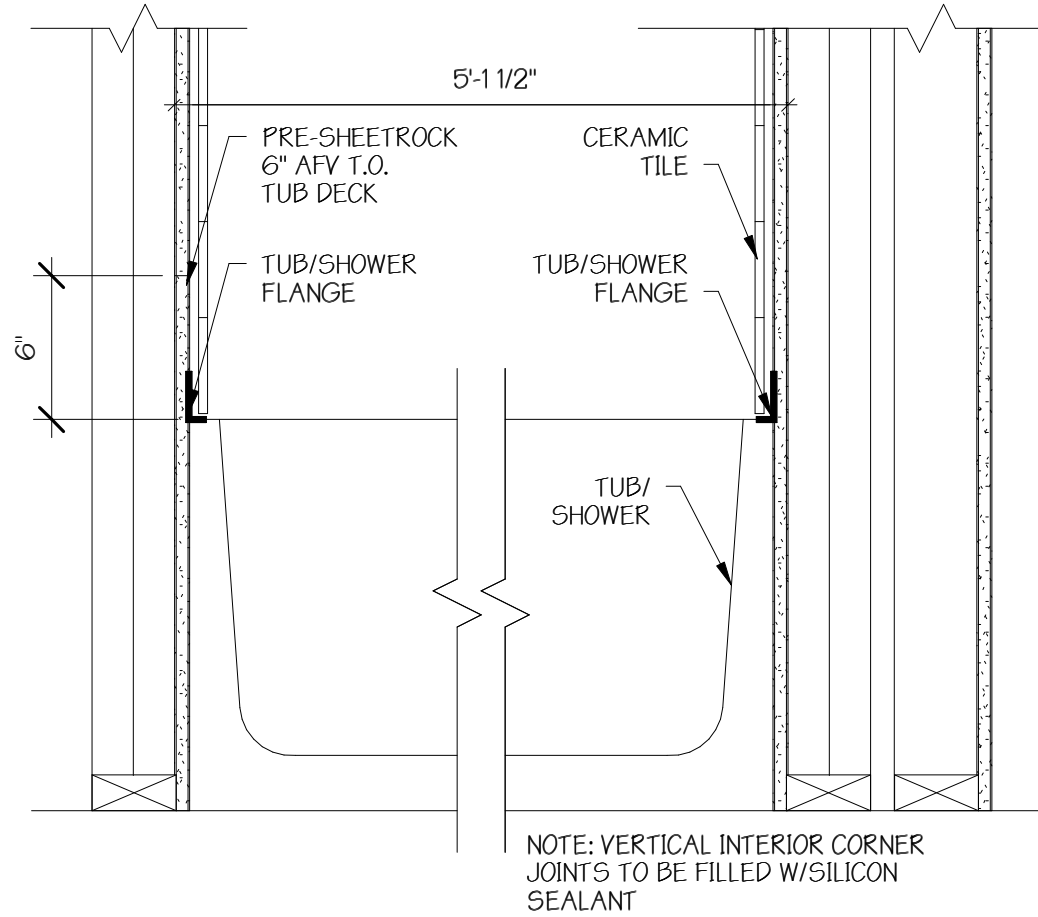
10 ACCESSIBLE LAVATORY 1"



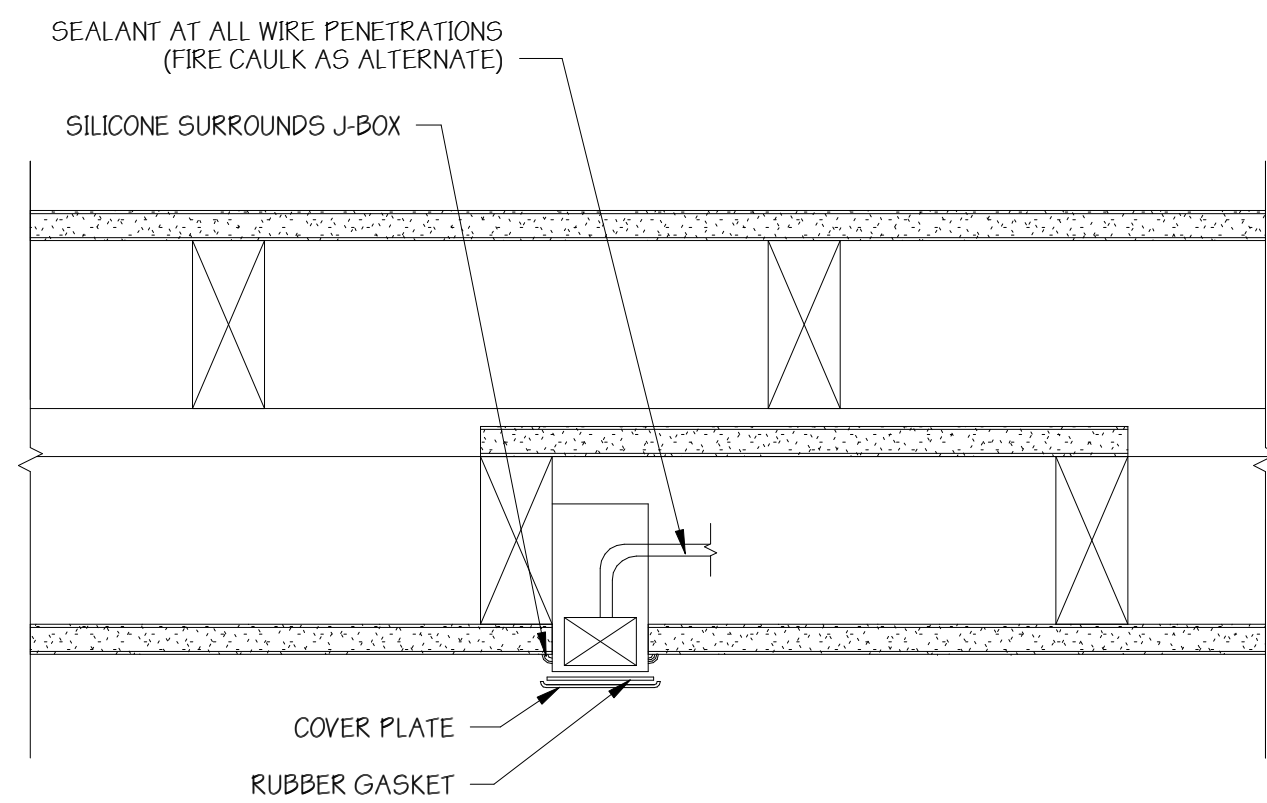
11 ACCESSIBLE KITCHEN SINK 1"



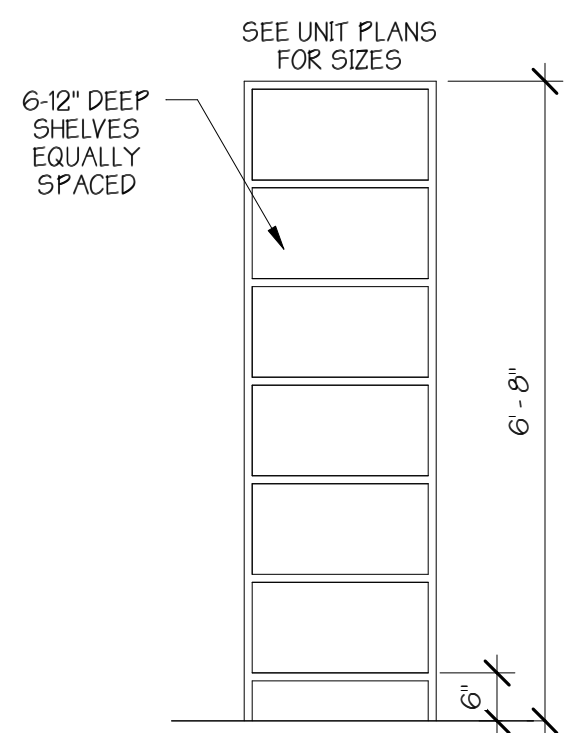
5 SHOWER @ WALL 1 1/2"



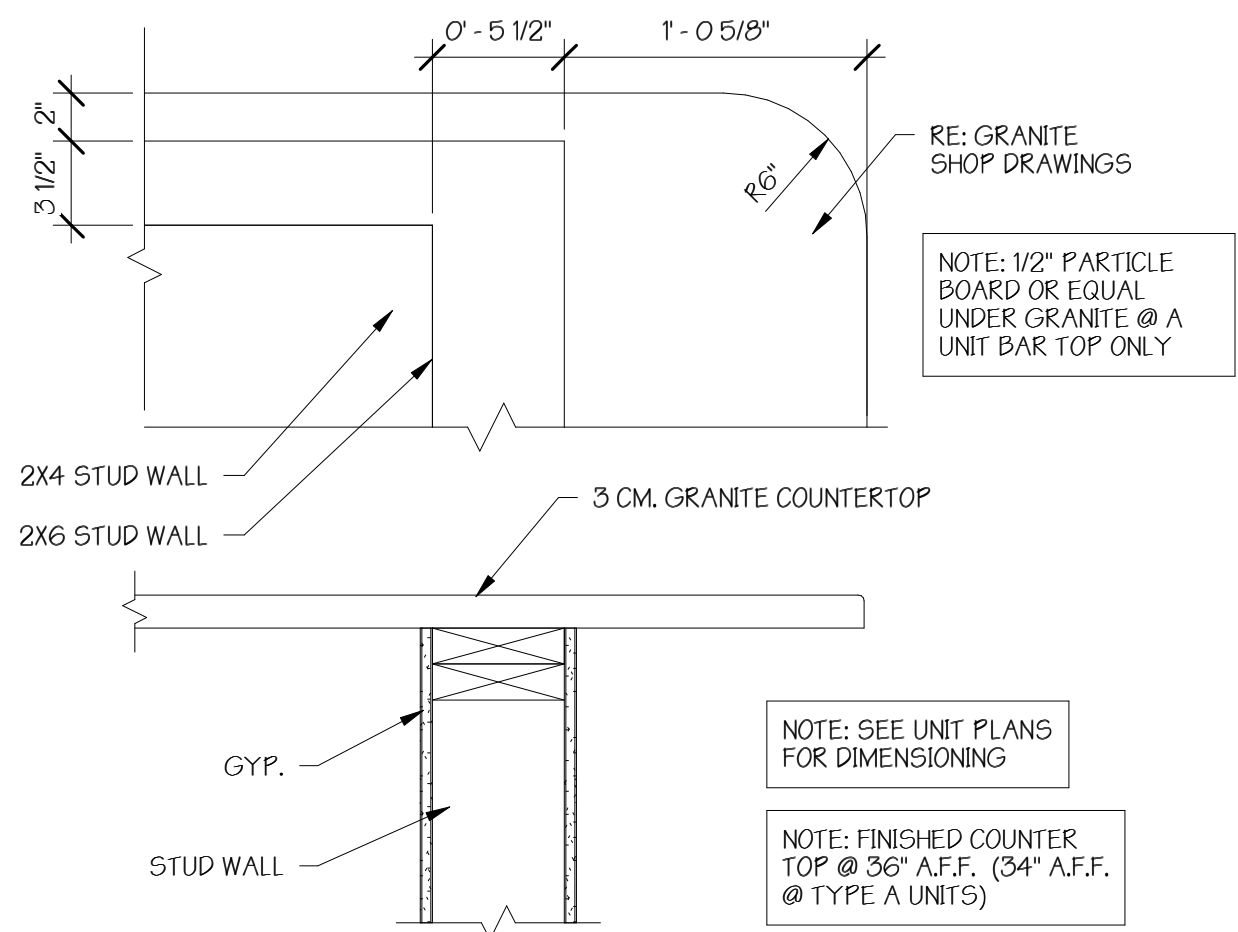
6 TUB @ WALL 1 1/2"



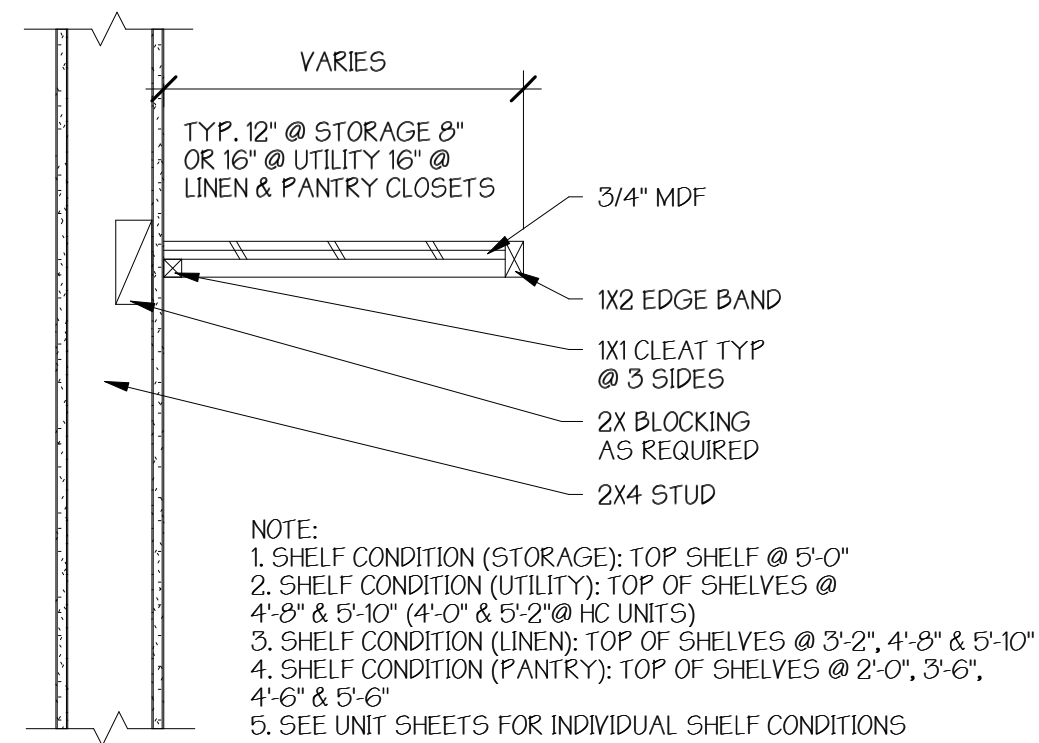
7 SOUND PROOFING @ JUNCTION BOX 1 1/2"



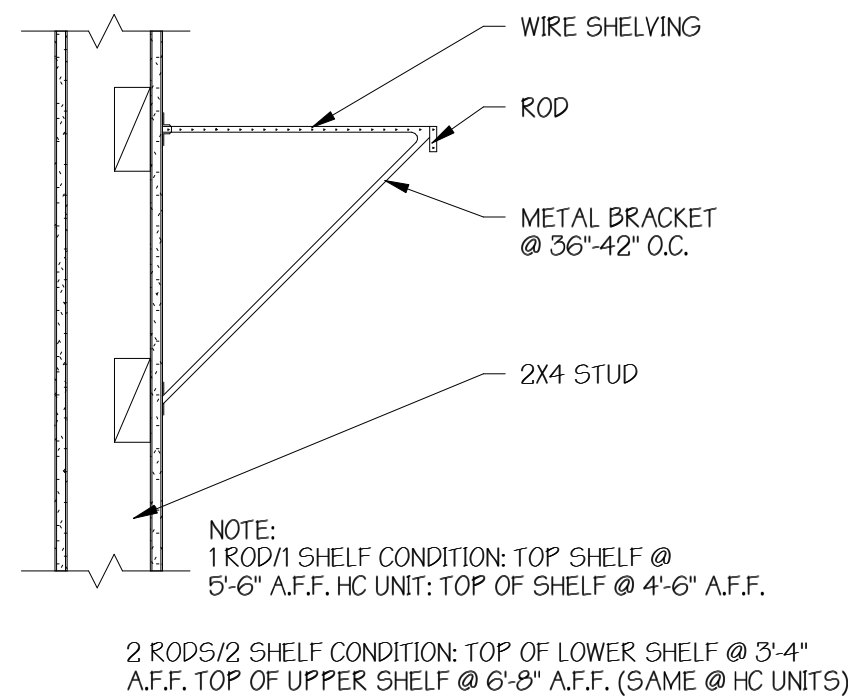
8 CLOSET/LINEN SHELVES SAME @ OPEN SHELVES 1 1/2"



1 FLUSH COUNTER TOP 1 1/2"

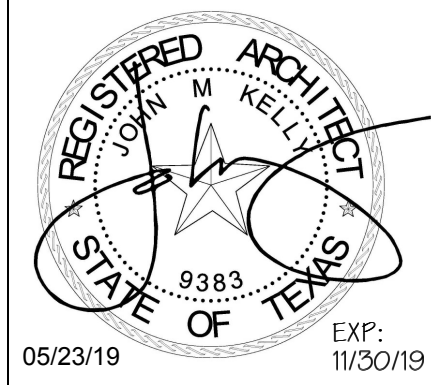


2 STORAGE/UTILITY/LINEN/PANTRY/SHELF DETAIL SEE UNIT SHEETS FOR INDIVIDUAL SHELF CONDITIONS 1 1/2"



3 CLOSET SHELF DETAIL 1 1/2"

DRAWN BY:
DPF,
MAR
CHECKED BY:
JMK
PROJECT #:
18-2325



LDG DEVELOPEMENT
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STREET, LOUISVILLE, KY
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ARCHITECTURE • LAND PLANNING • LANDSCAPE DESIGN • CONSTRUCTION ADMINISTRATION
KELLY GROSSMAN
REGISTERED ARCHITECT
STATE OF TEXAS
NO. 9383
EXPIRATION DATE 11/30/2019
280 ADAMS EDDY ROAD, SUITE 200, AUSTIN, TEXAS 78746 (P) 1-512-327-3287
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MOONLIGHT GARDEN
8901 NUCKOLIS CROSSING RD, AUSTIN TX
78747

No.	Revision	Date
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ISSUED FOR PERMIT		
06-10-2019		
ISSUED FOR BID		
ISSUED FOR CONSTRUCTION		
DWG NAME		
DATE		
03/21/14		
DESCRIPTION		
UNITS DETAILS		
SHEET		
A3.0		

2015 International Building Code

2406.4 HAZARDOUS LOCATIONS. The locations specified in Sections 2406.4.1 through 2406.4.7 shall be considered specific hazardous locations requiring safety glazing materials.

2406.4.1 GLAZING IN DOORS. Glazing in all fixed and operable panels of swinging, sliding, and bifold doors shall be considered a hazardous location.

- Exceptions:
1. Glazed openings of a size through which a 3-inch-diameter (76 mm) sphere is unable to pass.
 2. Decorative glazing.
 3. Glazing materials used as curved glazed panels in revolving doors.
 4. Commercial refrigerated cabinet glazed doors.
- 2406.4.2 GLAZING ADJACENT TO DOORS. Glazing in an individual fixed or operable panel adjacent to a door where the nearest vertical edge of the glazing is within a 24-inch (610 mm) arc of either vertical edge of the door in a closed position and where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) above the walking surface shall be considered a hazardous location.
- Exceptions:
1. Decorative glazing.
 2. Where there is an intervening wall or other permanent barrier between the door and glazing.
 3. Where access through the door is to a closet or storage area 3 feet (914 mm) or less in depth.
 4. Glazing in walls on the latch side of and perpendicular to the plane of the door in a closed position in one- and two-family dwellings or within dwelling units in Group R-2.

2406.4.3 GLAZING IN WINDOWS. Glazing in an individual fixed or operable panel that meets all of the following conditions shall be considered a hazardous location:

1. The exposed area of an individual pane is greater than 9 square feet (0.84 m²);
2. The bottom edge of the glazing is less than 18 inches (457 mm) above the floor;
3. The top edge of the glazing is greater than 36 inches (914 mm) above the floor; and
4. One or more walking surface(s) are within 36 inches (914 mm), measured horizontally and in a straight line, of the plane of the glazing.

Exceptions:

1. Decorative glazing.
2. Where a horizontal rail is installed on the accessible side(s) of the glazing 34 to 38 inches (864 to 965 mm) above the walking surface. The rail shall be capable of withstanding a horizontal load of 50 pounds per linear foot (730 N/m) without contacting the glass and be a minimum of 1 1/2 inches (38 mm) in cross-sectional height.
3. Outboard panes in insulating glass units or multiple glazing where the bottom exposed edge of the glass is 25 feet (7620 mm) or more above any grade, roof, walking surface or other horizontal or sloped (within 45 degrees of horizontal) (0.78 rad) surface adjacent to the glass exterior.

2406.4.4 Glazing in guards and railings. Glazing in *guards* and railings, including structural baluster panels and nonstructural in-fill panels, regardless of area or height above a walking surface shall be considered a hazardous location.

2406.4.5 Glazing and wet surfaces. Glazing in walls, enclosures or fences containing or facing hot tubs, spas, whirlpools, saunas, steam rooms, bathtubs, showers and indoor or outdoor swimming pools where the bottom exposed edge is less than 60 inches (1524 mm) measured vertically above any standing or walking surface shall be considered a hazardous location. This shall apply to single glazing and all panes in multiple glazing.

Exception: Glazing that is more than 60 inches (1524 mm), measured horizontally and in a straight line, from the water's edge of a bathtub, hot tub, spa, whirlpool or swimming pool.

2406.4.6 Glazing adjacent to stairways and ramps. Glazing where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) above the plane of the adjacent walking surface of stairways, landings between flights of stairs and ramps shall be considered a hazardous location.

- Exceptions:
1. The side of a stairway, landing or ramp that has a guard complying with the provisions of Sections 1015 and 1607.8, and the plane of the glass is greater than 18 inches (457 mm) from the railing.
 2. Glazing 36 inches (914 mm) or more measured horizontally from the walking surface.
- 2406.4.7 Glazing adjacent to the bottom stairway landing. Glazing adjacent to the bottom of a stairway where the glazing is less than 60 inches (1524 mm) above the landing and within a 60-inch (1524 mm) horizontal arc that is less than 180 degrees (3.14 rad) from the bottom tread nosing shall be considered a hazardous location.
- Exception: Glazing that is protected by a guard complying with Sections 1015 and 1607.8 where the plane of the glass is greater than 18 inches (457 mm) from the guard.

 - TEMPERED (REFER TO UNIT PLANS FOR TEMPERED WINDOW LOCATIONS)

1013.8 WINDOW SILLS

In Occupancy Groups R-2 and R-3, one- and two-family and multiple-family dwellings, where the opening of the sill portion of an operable window is located more than 72 inches (1829 mm) above the finished grade or other surface below, the lowest part of the clear opening of the window shall be at a height not less than 36 inches (915 mm) above the finished floor surface of the room in which the window is located. Operable sections of windows shall not permit openings that allow passage of a 4-inch-diameter (102mm) sphere where such openings are located within 36 inches (915mm) of the finished floor.

EXCEPTIONS:

1. Operable windows where the sill portion of the opening is located more than 75 feet (22,860 mm) above the finished grade of other surface below and that are provided with window fall prevention devices that comply with ASTM F 2006.
2. Windows whose openings will not allow a 4-inch-diameter (102mm) sphere to pass through the opening when the window is in its largest opened position.
3. Openings that are provided with window fall prevention devices that comply with ASTM F 2090.
4. Windows that are provided with window opening control devices that comply with Section 1013.8.1.

NOTE: Per section 1015.8 2015 IBC Child safety latch is required on all windows where sill is less than 36" from finished floor elevation.

NOTE: The unlatching of any leaf shall not require more than one operation except as provided in Section 1008.1.9.5.

NOTE: See sheet A1.3-A1.6 for accessibility guidelines.

NOTE: Accessible and public common use areas require that door surfaces within 10" of the floor be a smooth surface on the push side. (Including residential entry doors).

NOTE: Units front doors shall be operable from the inside without the use of a key or any special knowledge or effort.

NOTE: All windows should be double-pane insulating, low-e windows. All exterior doors should be insulated.

NOTE: See specifications for interior and exterior finishes.

NOTE: Operable windows in ADA accessible units shall have hardware located between 15" - 48" A.F.F.

716.5.3 DOOR ASSEMBLIES IN CORRIDORS AND SMOKE BARRIERS. Fire door assemblies required to have a minimum fire-protection rating of 20 minutes where located in corridor walls or smoke barrier walls having a fire-resistance rating in accordance with Table 716.5 shall be tested in accordance with NFPA 252 or UL 10C without the hose stream test.

Exceptions:

1. Viewports that require a hole not larger than 1 inch in diameter through the door, have at least a 0.25-inch-thick glass disc and the holder is of metal that will not melt out where subject to temperatures of 1700°F.
2. Corridor door assemblies in occupancies of Group I-2 shall be in accordance with Section 407.3.1.
3. Unprotected openings shall be permitted for corridors in multitheater complexes where each motion picture auditorium has at least one-half of its required exit or exit access doorways opening directly to the exterior or into an exit passageway.
4. Horizontal sliding doors in smoke barriers that comply with Sections 408.3 and 408.8.4 in occupancies in Group I-3.

716.5.3.1 SMOKE AND DRAFT CONTROL. Fire door assemblies shall also meet these requirements for a smoke and draft control door assembly tested in accordance with UL 1784. The air leakage rate of the door assembly shall not exceed 3.0 cubic feet per minute per square foot of door opening at 0.10 inch of water for both the ambient temperature and elevated temperature tests. Lowerers shall be prohibited. Installation of smoke doors shall be in accordance with NFPA 105.

716.5.3.2 GLAZING IN DOOR ASSEMBLIES. In a 20-minute fire door assembly, the glazing material in the door itself shall have a minimum fire-protection-rated glazing of 20 minutes and shall be exempt from the hose stream test. Glazing material in any other part of the door assembly, including transom lights and sidelights, shall be tested in accordance with NFPA 257 or UL9, including the hose stream test, in accordance with Section 716.6.

DOOR HARDWARE: At all units, lever handle passage sets will be installed on entry doors. Lever handle passage sets to be installed on all unit interior and exterior doors.

HARDWARE: (to be specified brands or equal) Lock Hardware: "Kwikset, Tyto Series". At front door of all units provide 1 passage set, 1 keyed deadbolt (min. 1" throw), 1 keyless deadbolt (min. 1" throw). Both strike plates installed using 3" screws

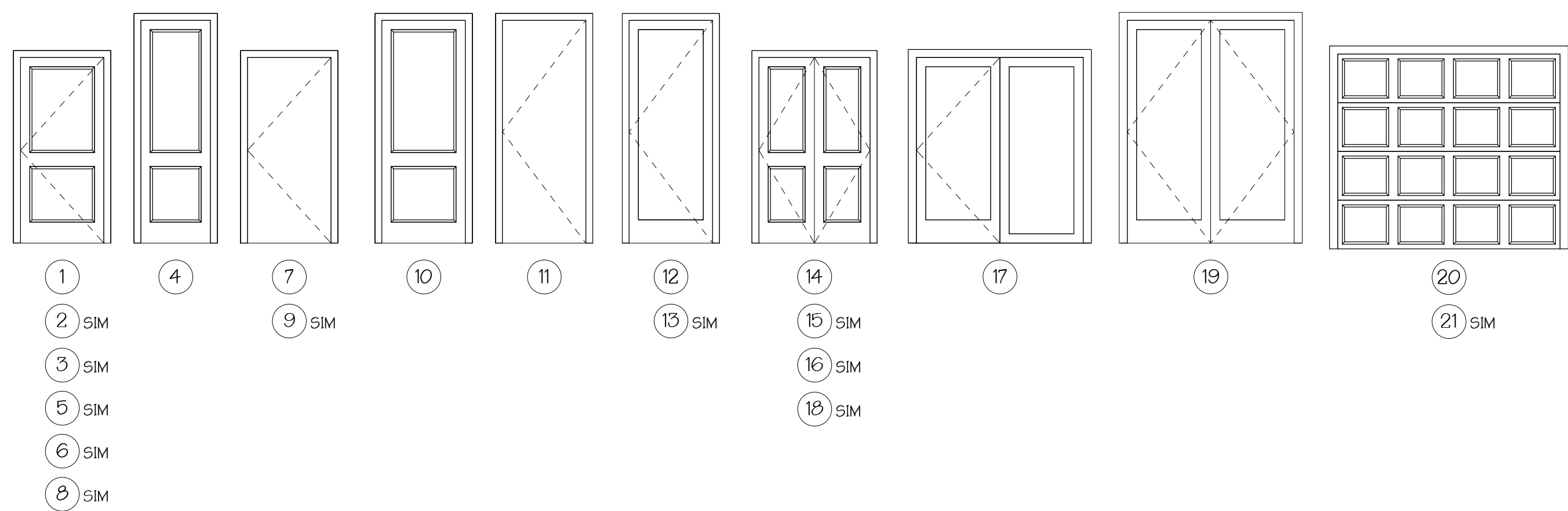
One 180° door viewer and door knocker also at front entry. At sliding glass doors pin locks must be installed not more than 4'-8" from the floor or "Fortress Patio Door Lock"

At glass patio doors provide 1 passage lock and 1 keyless deadbolt (min. 1" throw w/strike plate installed using 3" screws).

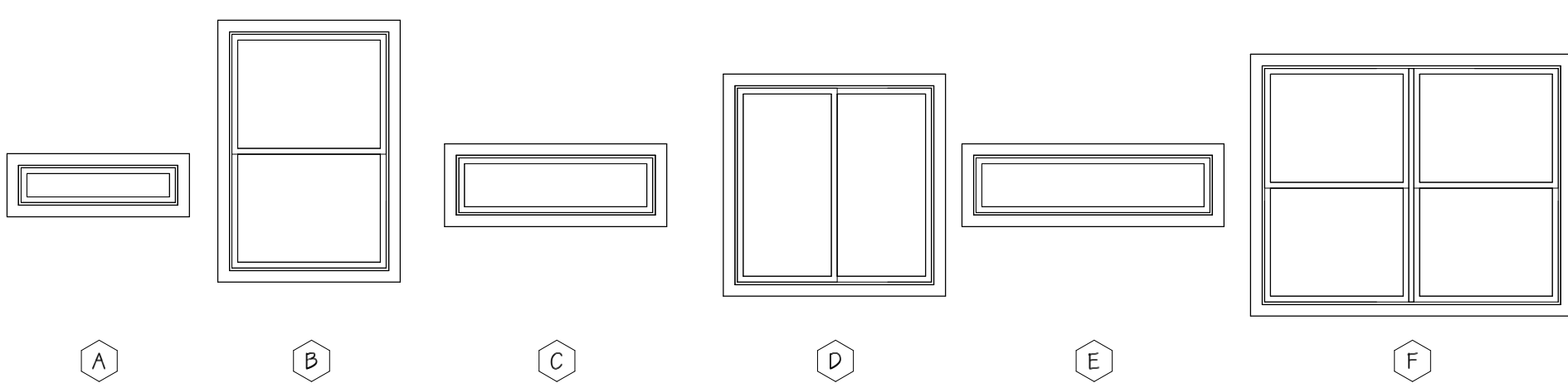
Deadbolts and locks to be construction keyed only. All deadbolts and locks are to be independently keyed when turned from construction.

Note: lock supplier to send master keys directly to owner. Do not send to job.

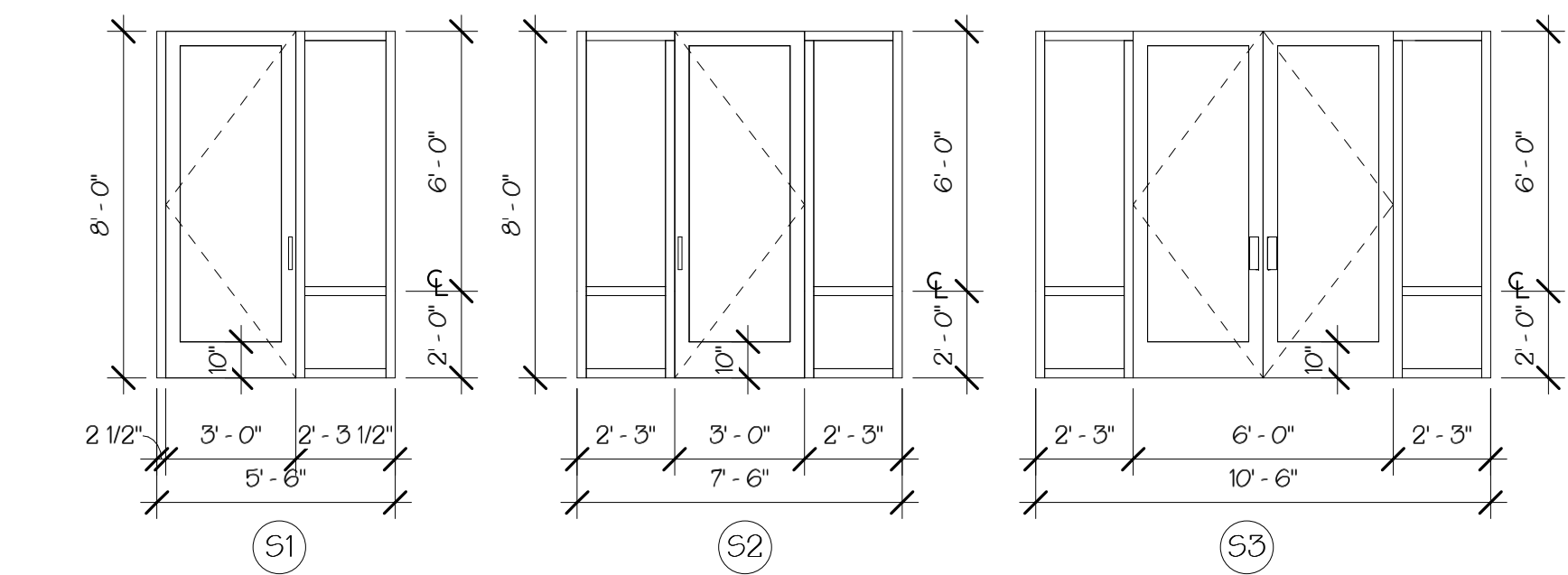
Door Schedule				
Type Mark	Door		Description	Fire Rating
	Width	Height		
1	3' - 0"	6' - 8"		20 MIN.
2	2' - 0"	6' - 8"	Interior - 2 Panel - Single - HC: 24" x 80"	n/a
3	2' - 6"	6' - 8"	Interior - 2 Panel - Single - HC: 30" x 80"	n/a
4	2' - 6"	8' - 0"	Interior - 2 Panel - Single - HC: 30" x 96"	n/a
5	3' - 0"	6' - 8"	Interior - 2 Panel - Double - HC: 36" x 80"	n/a
6	3' - 0"	6' - 8"	Interior - 2 Panel - Single - HC: 36" x 80"	n/a
7	3' - 0"	6' - 8"	Exterior - Flush - Single - HM - 20 MIN: 36" x 80"	20 MIN.
8	3' - 0"	6' - 8"	Interior - 2 Panel - Single - HC - Utility: 36" x 80"	n/a
9	3' - 0"	6' - 8"	Exterior - Flush - Single - HM - 60 MIN: 36" x 80"	60 MIN.
10	3' - 0"	8' - 0"	Interior - 2 Panel - Single - HC: 36" x 96"	n/a
11	3' - 0"	8' - 0"	Exterior - Flush - Single - Entrydoor - HM - 20 MIN: 36" x 96"	20 MIN.
12	3' - 0"	8' - 0"	Interior - Single - Glass - 6C: 36" x 96"	n/a
13	3' - 0"	8' - 0"	Exterior - Single - Glass - HM: 36" x 96"	n/a
14	4' - 0"	6' - 8"	Interior - 2 Panel - Double - HC: 48" x 80"	n/a
15	5' - 0"	6' - 8"	Interior - 2 Panel - Double - HC - Utility: 60" x 80"	n/a
16	5' - 0"	8' - 0"	Interior - 2 Panel - Double - HC: 60" x 96"	n/a
17	6' - 0"	6' - 8"	Exterior - Single - Glass with Sidelight - HM: 72" x 80"	n/a
18	6' - 0"	6' - 8"	Interior - 2 Panel - Double - HC - Utility: 72" x 80"	n/a
19	6' - 0"	8' - 0"	Exterior - Double - Glass Lite - HM: 72" x 96"	
20	8' - 0"	7' - 0"	Exterior - Garage - Overhead - Sectional - 16 Panel: 96" x 84"	
21	10' - 0"	9' - 0"	Exterior - Garage - Overhead - Sectional - 16 Panel: 120" x 108"	




WINDOW SCHEDULE				
Type Mark	Width		Type	Material
	Width	Height		
A	4' - 0"	1' - 0"	Single Fixed	VINYL
B	4' - 0"	6' - 0"	Single Hung	VINYL
C	5' - 0"	1' - 6"	Single Transom	VINYL
D	5' - 0"	5' - 0"	Single Slider	VINYL
E	6' - 0"	1' - 6"	Single Fixed	VINYL
F	7' - 6"	6' - 0"	Double Single Hung	VINYL



STOREFRONT SCHEDULE			
TYPE	WIDTH	HEIGHT	Description
S1	5' - 6"	8' - 0"	ALUMINUM/ BRONZE
S2	7' - 6"	8' - 0"	ALUMINUM/ BRONZE
S3	9' - 0"	8' - 0"	ALUMINUM/ BRONZE

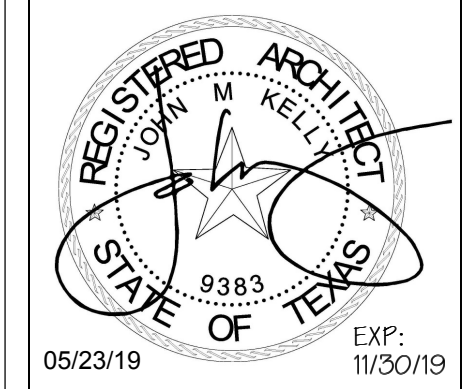


STOREFRONT	
 TEMPERED GLASS	
M1 - 2 1/2" x 5" MULLION	
ALL STOREFRONT MULLIONS TO BE ALUMINUM ANODIZED BRONZE.	
ALL STOREFRONT GLAZING TO BE 1" INSULATED LOW E	

DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325



LDG DEVELOPEMENT

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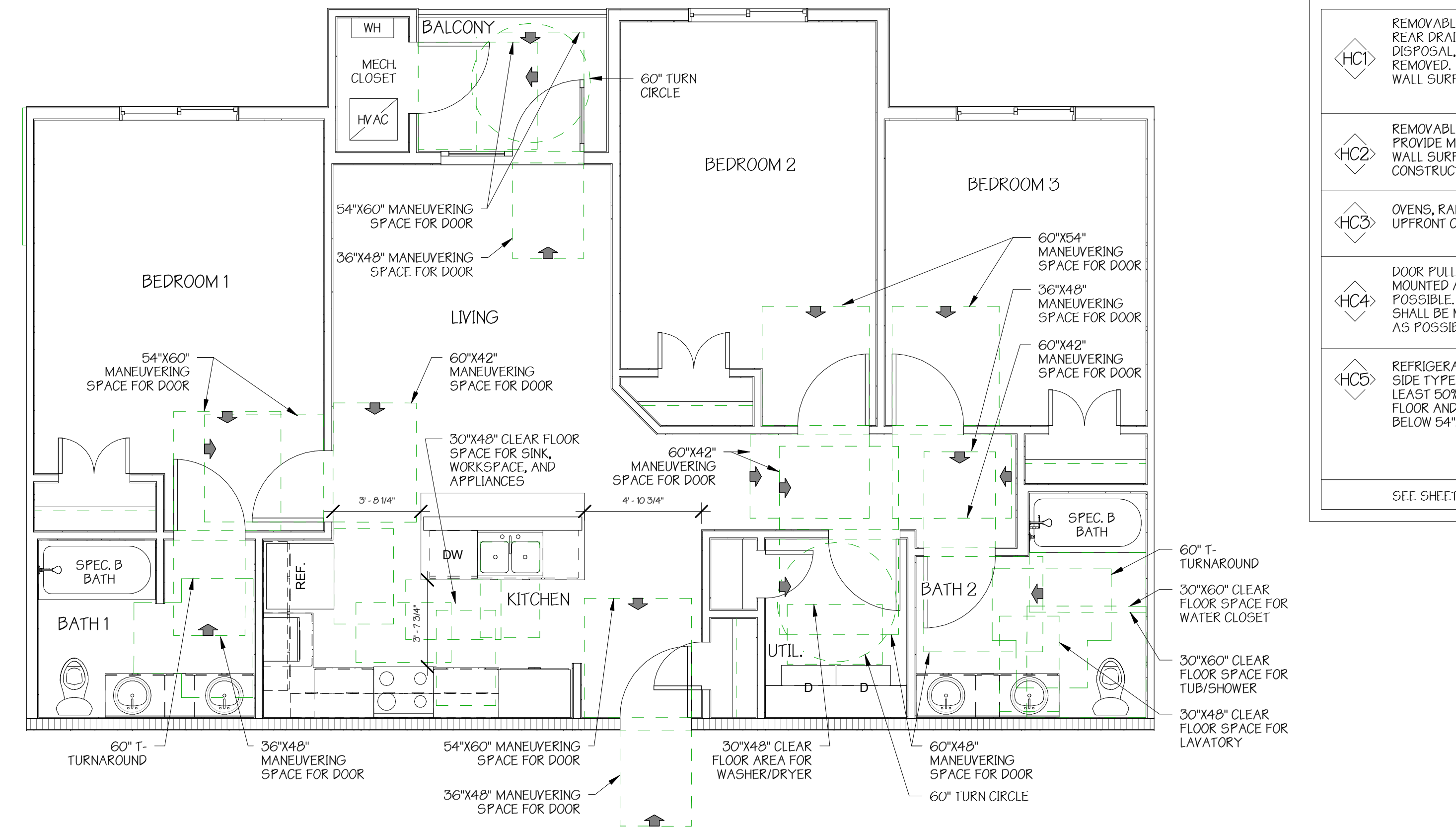
MOONLIGHT GARDEN

8901 NUCKOLLS CROSSING RD, AUSTIN TX
78747

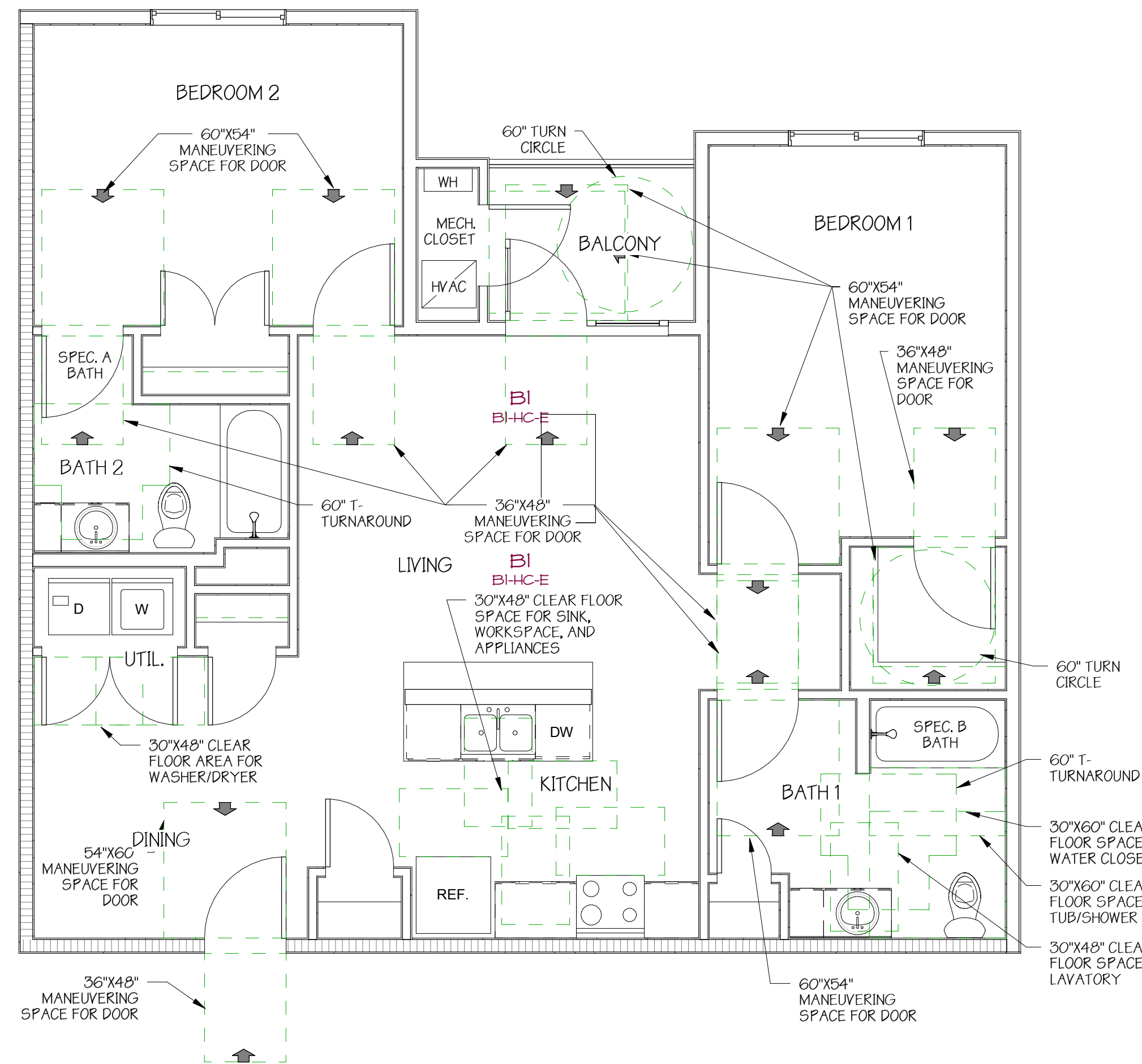
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DWG NAME		
DATE		
11/08/13		
DESCRIPTION		
DOOR & WINDOW SCHEDULE		
SHEET		
A3.1		

CLEAR FLOOR SPACE REQUIREMENTS FOR ADA ACCESSIBLE UNITS PER UFAS, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN & FAIR HOUSING ACT GUIDELINES

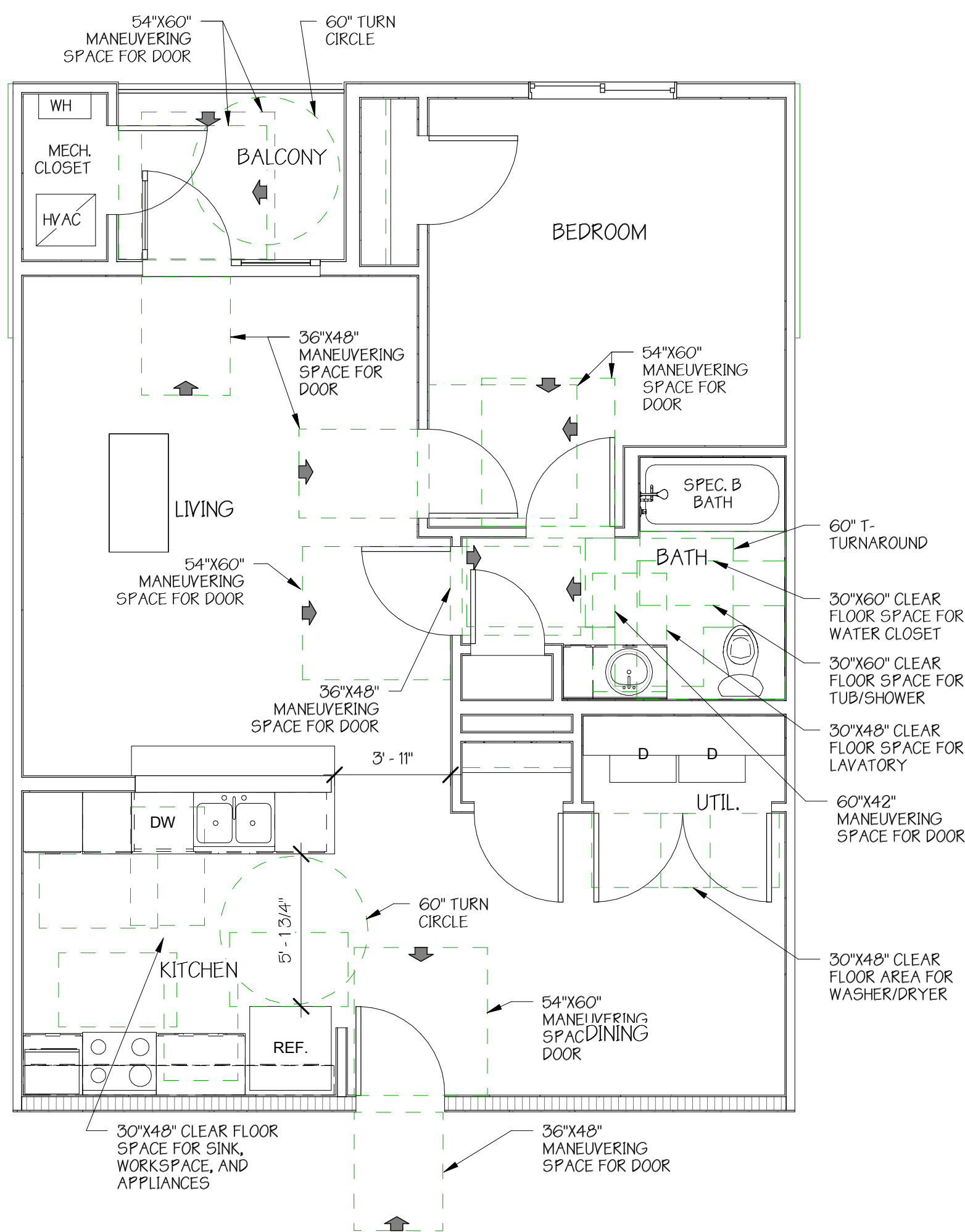
ADAPTABLE ELEMENTS FOR THE 5% ADA UNITS REQUIRED BY UFAS & THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.



3 CLEAR FLOOR AREA UNIT CHIC
1/4" = 1'-0"



2 CLEAR FLOOR AREA UNIT BIHCE
1/4" = 1'-0"



1 CLEAR FLOOR AREA UNIT AHC
1/4" = 1'-0"

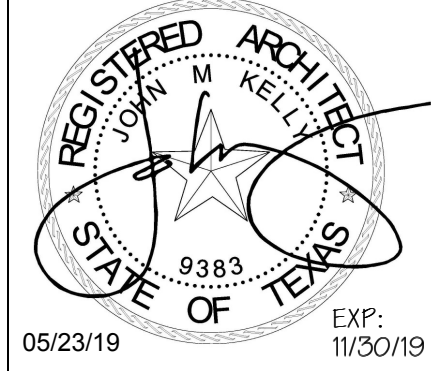
HC1	REMOVABLE SINK BASE CABINET IN KITCHEN W/ REAR DRAIN SINK. PROVIDE PANEL TO COVER PIPING, GARBAGE DISPOSAL, ETC., OR WRAP EXPOSED PIPING, IF CABINET IS REMOVED. EXTEND FLOORING UNDER CABINET & FINISH ADJACENT WALL SURFACES/CABINETS AT TIME OF INITIAL CONSTRUCTION.	HC6	REMOVABLE SINK BASE CABINET IN BATHROOM. PROVIDE PANEL TO COVER PIPING, OR WRAP EXPOSED PIPING IF CABINET IS REMOVED. EXTEND FLOORING UNDER CABINET AND FINISH ADJACENT WALL SURFACES/CABINETS AT TIME OF INITIAL CONSTRUCTION.
HC2	REMOVABLE BASE CABINET IN KITCHEN TO PROVIDE MIN. 30" WORK SPACE. FINISH ADJACENT WALL SURFACES/CABINETS AT TIME OF INITIAL CONSTRUCTION.	HC7	GRAB BARS INSTALLED AT REQUEST OF FUTURE TENANT, BUT BLOCKING MUST BE PROVIDED AT TIME OF INITIAL CONSTRUCTION.
HC3	OYENS, RANGES, AND OTHER COOKING DEVICES SHALL HAVE UPFRONT CONTROLS.	HC8	PROVIDE HANDHELD SHOWERHEAD WITH A NONPOSITIVE SHUT-OFF FEATURE & A 59" MINIMUM LENGTH HOSE THAT CAN ALSO BE USED AS A FIXED SHOWER HEAD. INSTALL AT TIME OF INITIAL CONSTRUCTION.
HC4	DOOR PULLS OR HANDLES FOR WALL CABINETS SHALL BE MOUNTED AS CLOSE TO THE BOTTOM OF CABINET DOORS AS POSSIBLE. DOOR PULLS OR HANDLES FOR BASE CABINETS SHALL BE MOUNTED AS CLOSE TO THE TOP OF CABINET DOORS AS POSSIBLE.	HC9	FOLDING SEAT IN TRANSFER TYPE SHOWERS TO BE INSTALLED AT REQUEST OF FUTURE TENANT. BLOCKING MUST BE PROVIDED AT TIME OF INITIAL CONSTRUCTION.
HC5	REFRIGERATOR/FREEZERS MUST BE OF THE VERTICAL SIDE-BY-SIDE TYPE; OR OF THE VERTICAL OVER-AND-UNDER TYPE WITH AT LEAST 50% OF THE FREEZER SPACE BELOW 54" ABOVE THE FLOOR AND 100% OF THE REFRIGERATOR SPACE AND CONTROLS BELOW 54".	HC10	REMOVABLE BASE IN BATHROOM TO PROVIDE REQUIRED CLEAR FLOOR AREA FOR WATER CLOSET OR BATHTUB. PROVIDE WALL MOUNTED END PANEL TO SUPPORT COUNTERTOP. FINISH ADJACENT WALL SURFACES/CABINETS AT TIME OF INITIAL CONSTRUCTION.
	SEE SHEETS	HC11	DISHWASHER SHOULD BE ADA COMPLIANT AND ABLE TO FIT UNDER 2'-10" COUNTER.
	FOR FURTHER INFORMATION	HC12	ADA COMPLIANT REMOVABLE BATHTUB SEAT TO BE INSTALLED AT TIME OF INITIAL CONSTRUCTION. TOP OF SEAT TO BE 17"-19" A.F.F., 15'-16" IN DEPTH, & CAPABLE OF SECURE PLACEMENT.

ACCESSIBILITY GUIDELINES PER FAIR HOUSING ACT FOR ACCESSIBLE GROUND FLOOR UNITS & COMMON FACILITIES

AN ACCESSIBLE ROUTE FROM THE PARKING LOT TO THE GROUND FLOOR UNIT FRONT DOORS SHALL BE PROVIDED. SEE SHEET A1.3 FOR ACCESSIBLE GROUND FLOOR UNIT LOCATIONS. THE ACCESSIBLE ROUTE SHALL INCORPORATE THE FOLLOWING:

- BE PROVIDED TO ALL COMMON FACILITIES AND TO ALL ACCESSIBLE GROUND FLOOR UNITS. INTERIOR.
- THE ACCESSIBLE ROUTE SHALL CONTINUE INTO & THROUGHOUT ALL COMMON FACILITIES & ALL ACCESSIBLE GROUND FLOOR UNITS. NOTE: ALL GROUND FLOOR UNITS ARE DESIGNED TO HAVE AN ACCESSIBLE ROUTE THROUGHOUT THE INTERIOR.
- CURB BREAKS IN ACCORDANCE WITH DETAIL ON SHEET A2.11.
- MINIMUM 36" WIDE SIDEWALKS WITH NO LEVEL CHANGE IN EXCESS OF 1/2" AND NO SLOPE IN EXCESS OF 1:20 FROM DESIGNATED HANDICAPPED PARKING SPACES TO GROUND FLOOR ACCESSIBLE UNITS. OTHER WALKS TO ACCESSIBLE UNITS MAY SLOPE AT 1:12 MAX. WITH HANDRAILS.
- THRESHOLDS SHALL BE A MAXIMUM HEIGHT OF 1/2" AT ALL COMMON FACILITIES AND ACCESSIBLE UNITS. ABRUPT LEVEL CHANGES OF 1/4" TO 1/2" REQUIRE 1:2 BEVEL EDGE TREATMENT.
- WHEN AN INDIVIDUAL WHO REQUIRES AN ACCESSIBLE ROUTE IS IN RESIDENCE, THE PARKING SPACE ADJACENT TO THE ACCESSIBLE ROUTE SHALL BE RESERVED FOR THAT TENANT.
- SHOULD A HANDICAPPED PERSON DESIRE TO LEASE ANY ACCESSIBLE UNIT IN THIS PROJECT, GRAB BARS MAY BE ADDED ALONG WITH OTHER ITEMS AT THE LEASE HOLDERS EXPENSE. SEE SHEET A1.3.
- AT ALL COMMON FACILITIES AND ACCESSIBLE UNITS - ELECTRIC OUTLETS, SWITCHES, TELEVISION JACKS, TELEPHONE JACKS, AND CONTROLS SHALL BE AT A MINIMUM OF 15" A.F.F. AND A MAXIMUM OF 48" A.F.F. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 20 INCHES, THE HIGH FORWARD REACH SHALL BE 44 INCHES MAXIMUM AND REACH DEPTH SHALL BE 25 INCHES MAXIMUM.
- AT ALL GROUND FLOOR UNITS PROVIDE BLOCKING IN THE WALL BEHIND AND BESIDE WATER CLOSETS (IF WALLS EXIST), BATHTUBS AND SHOWERS IN ACCORDANCE WITH FIGURES 1, 2, & 3 ON SHEET A1.3 FOR GRAB BAR INSTALLATION.
- AT ALL DOORS OF COMMON FACILITIES AND FRONT DOORS AT ALL GROUND FLOOR UNITS PROVIDE LEVER TYPE HANDLES.

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CHECKED BY:	JMK
PROJECT #:	18-2325



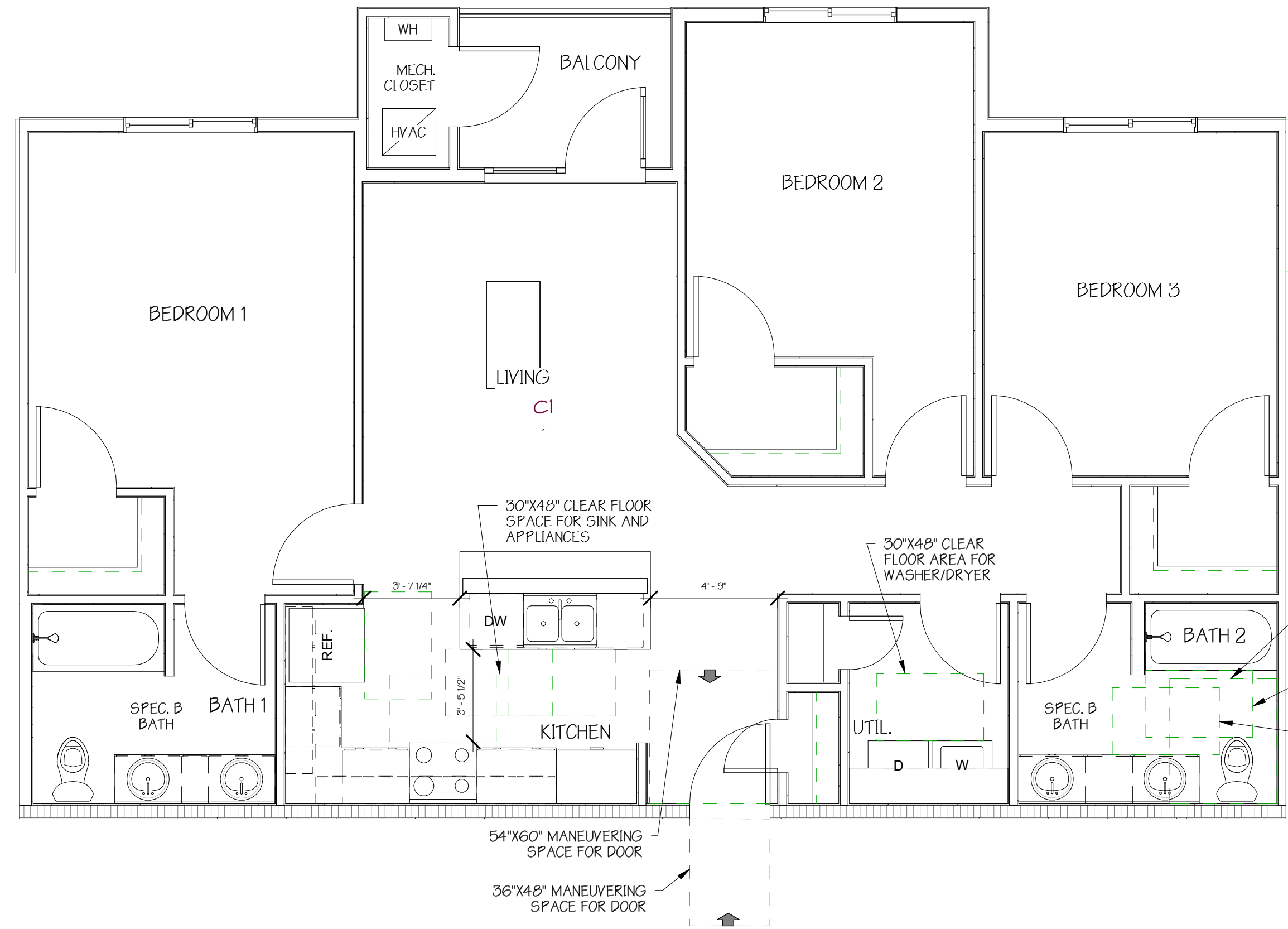
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KELLY GROSSMAN
REGISTERED ARCHITECT
STATE OF TEXAS
NO. 9383
EXPIRATION DATE 11/30/2019
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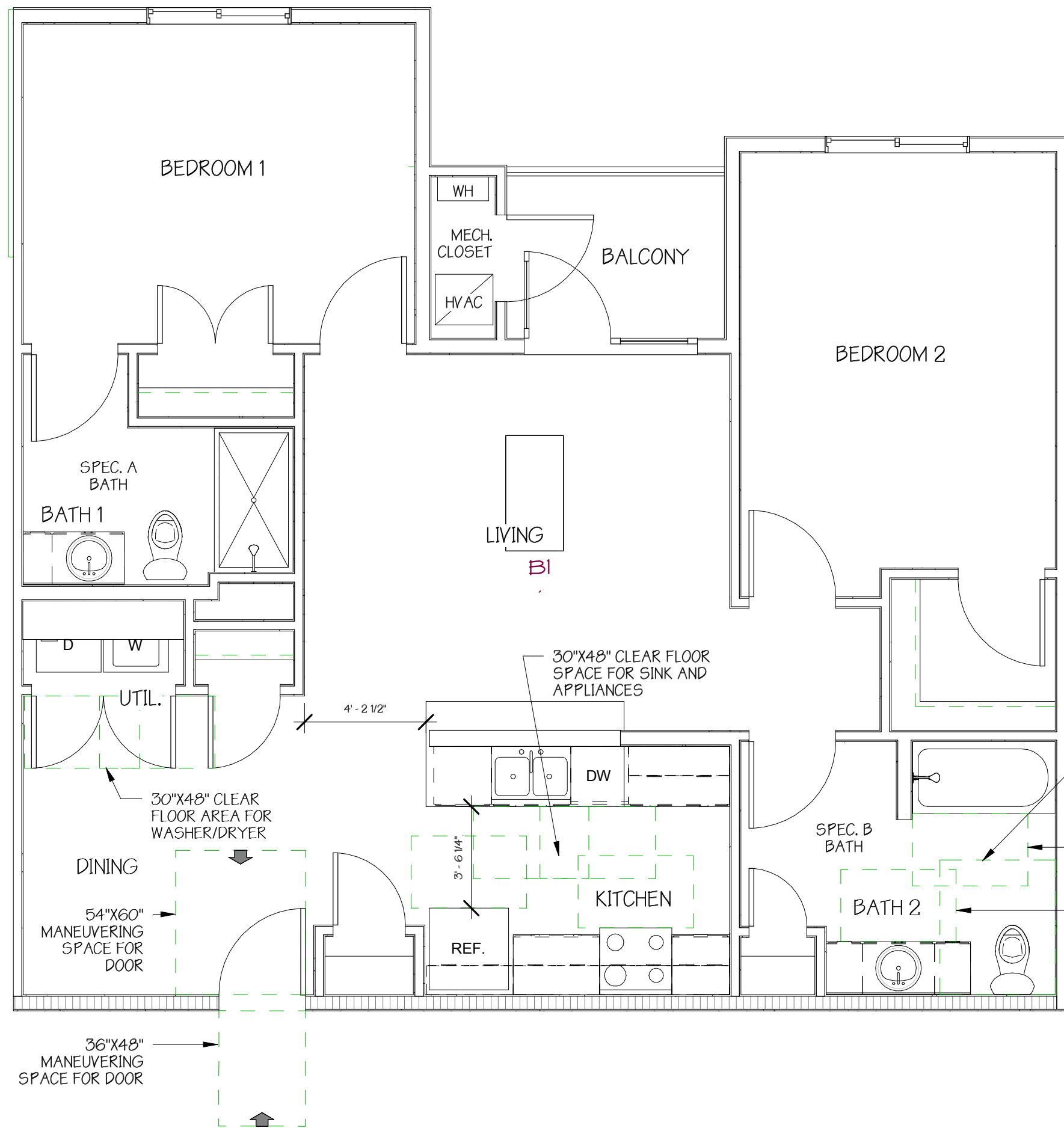
MOONLIGHT GARDEN
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DESCRIPTION		
ADA UNIT ACCESSIBILITY		
SHEET		
A3.2		

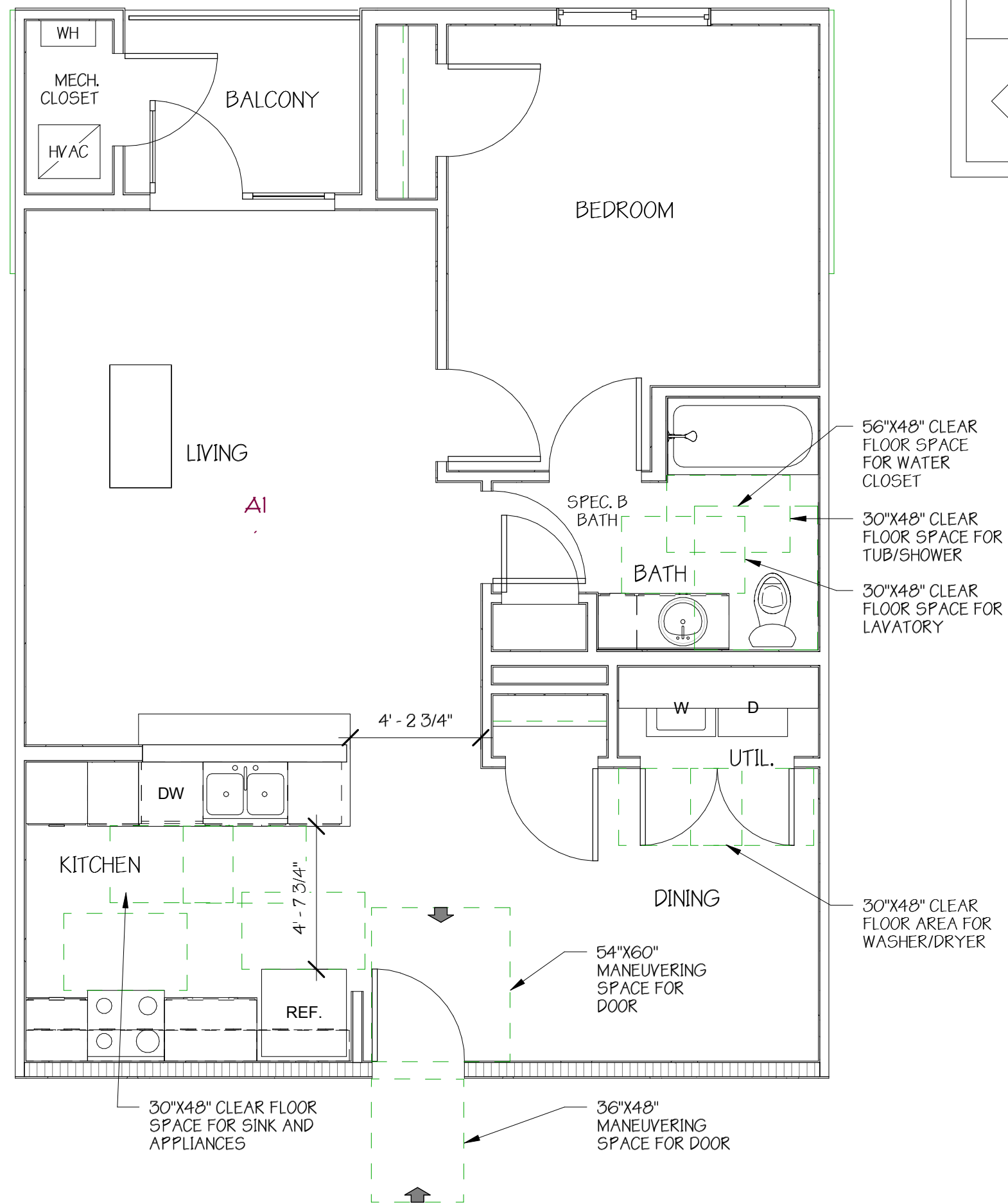
CLEAR FLOOR SPACE REQUIREMENTS FOR ADAPTABLE
ELEMENTS OF TYPE B UNITS
PER ICC/ANSI A117.1-2009 AND FAIR HOUSING ACT GUIDELINES



3 CLEAR FLOOR AREA UNIT C1
1/4" = 1'-0"



2 CLEAR FLOOR AREA UNIT B1
1/4" = 1'-0"



1 CLEAR FLOOR AREA UNIT A1
1/4" = 1'-0"

ACCESSIBILITY GUIDELINES PER FAIR HOUSING
ACT FOR
ACCESSIBLE GROUND FLOOR UNITS & COMMON
FACILITIES

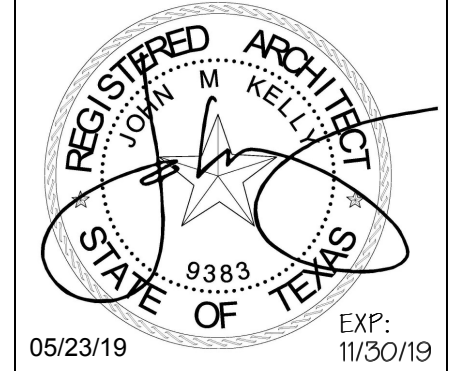
AN ACCESSIBLE ROUTE FROM THE PARKING LOT TO THE GROUND FLOOR UNIT FRONT DOORS SHALL BE PROVIDED. SEE SHEET A1.3 FOR ACCESSIBLE GROUND FLOOR UNIT LOCATIONS. THE ACCESSIBLE ROUTE SHALL INCORPORATE THE FOLLOWING:

1. BE PROVIDED TO ALL COMMON FACILITIES AND TO ALL ACCESSIBLE GROUND FLOOR UNITS. INTERIOR.
2. THE ACCESSIBLE ROUTE SHALL CONTINUE INTO & THROUGHOUT ALL COMMON FACILITIES & ALL ACCESSIBLE GROUND FLOOR UNITS. NOTE: ALL GROUND FLOOR UNITS ARE DESIGNED TO HAVE AN ACCESSIBLE ROUTE THROUGHOUT THE INTERIOR.
3. CURB BREAKS IN ACCORDANCE WITH DETAIL ON SHEET A2.11.
4. MINIMUM 36" WIDE SIDEWALKS WITH NO LEVEL CHANGE IN EXCESS OF 1/2" AND NO SLOPE IN EXCESS OF 1:20 FROM DESIGNATED HANDICAPPED PARKING SPACES TO GROUND FLOOR ACCESSIBLE UNITS. OTHER WALKS TO ACCESSIBLE UNITS MAY SLOPE AT 1:12 MAX. WITH HANDRAILS.
5. THRESHOLDS SHALL BE A MAXIMUM HEIGHT OF 1/2" AT ALL COMMON FACILITIES AND ACCESSIBLE UNITS. ABRUPT LEVEL CHANGES OF 1/4" TO 1/2" REQUIRE 1:2 BEVEL EDGE TREATMENT.
6. WHEN AN INDIVIDUAL WHO REQUIRES AN ACCESSIBLE ROUTE IS IN RESIDENCE, THE PARKING SPACE ADJACENT TO THE ACCESSIBLE ROUTE SHALL BE RESERVED FOR THAT TENANT.
7. SHOULD A HANDICAPPED PERSON DESIRE TO LEASE ANY ACCESSIBLE UNIT IN THIS PROJECT: GRAB BARS MAY BE ADDED ALONG WITH OTHER ITEMS AT THE LEASE HOLDERS EXPENSE. SEE SHEET A1.3.
8. AT ALL COMMON FACILITIES AND ACCESSIBLE UNITS - ELECTRIC OUTLETS, SWITCHES, TELEVISION JACKS, TELEPHONE JACKS, AND CONTROLS SHALL BE AT A MINIMUM OF 15" A.F.F. AND A MAXIMUM OF 48" A.F.F. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 20 INCHES, THE HIGH FORWARD REACH SHALL BE 44 INCHES MAXIMUM AND REACH DEPTH SHALL BE 25 INCHES MAXIMUM.
9. AT ALL GROUND FLOOR UNITS PROVIDE BLOCKING IN THE WALL BEHIND AND BESIDE WATER CLOSETS (IF WALLS EXIST), BATHTUBS AND SHOWERS IN ACCORDANCE WITH FIGURES 1, 2, & 3 ON SHEET A1.3 FOR GRAB BAR INSTALLATION.
10. AT ALL DOORS OF COMMON FACILITIES AND FRONT DOORS AT ALL GROUND FLOOR UNITS PROVIDE LEVER TYPE HANDLES.

TYPE B ADAPTABLE UNITS
PER FHA AND ICC/ANSI A117.1-2009
(SEE SHEETS A1.3, A1.3A, & A1.6)

- 1 GRAB BAR INSTALLED @ REQUEST OF RESIDENT. PROVIDE SUFFICIENT ADDITIONAL BLOCKING AS PRE-SCRIBED IN ACCESSIBILITY GUIDE-LINES (RE: A1.3 FAIR HOUSING ACT UNITS)
- 2 REMOVABLE KITCHEN BASE CABINET TO CREATE ADDITIONAL KNEE SPACE BENEATH COUNTER. EXTEND FLOORING UNDER CABINET & FINISH ADJACENT WALL SURFACES /CABINETS AT TIME OF INITIAL CONSTRUCTION.
- 3 REMOVABLE VANITY BASE CABINET TO CREATE ADDITIONAL KNEE SPACE BENEATH COUNTERTOP. EXTEND FLOORING UNDER CABINET & FINISH ADJACENT WALL SURFACES /CABINETS AT TIME OF INITIAL CONSTRUCTION.

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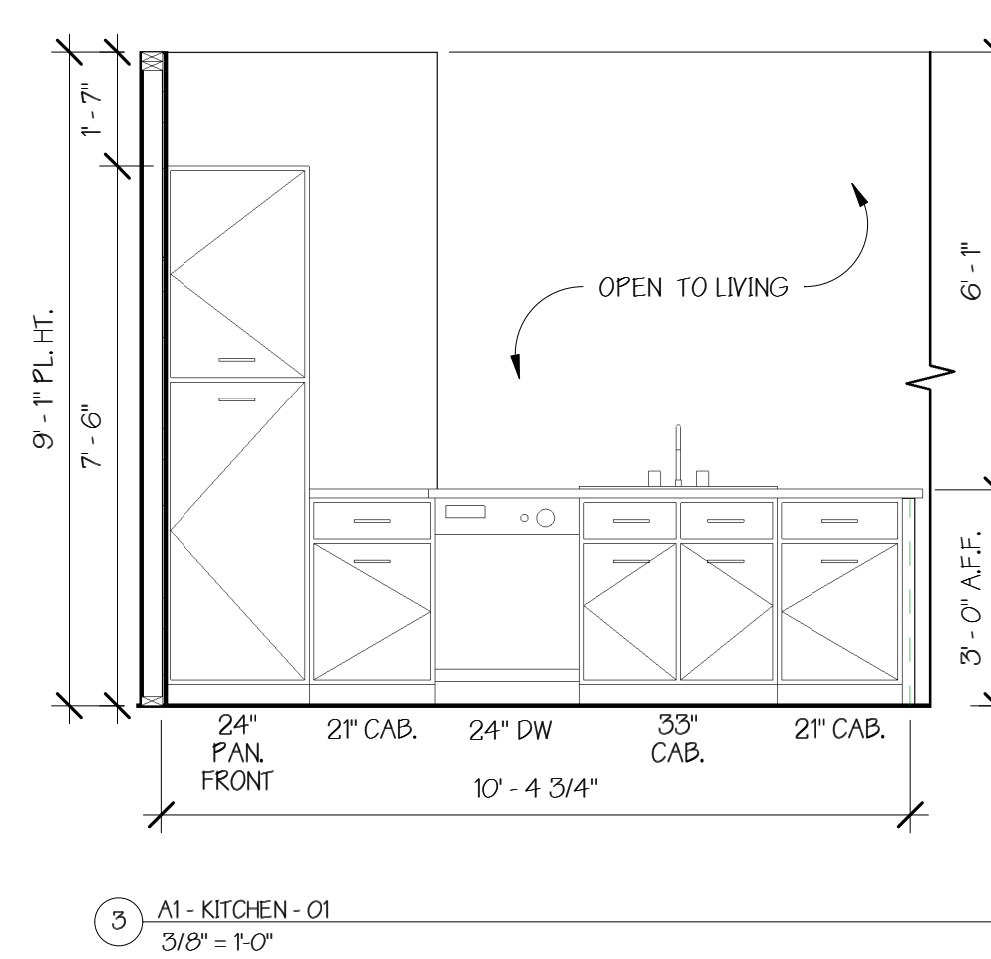
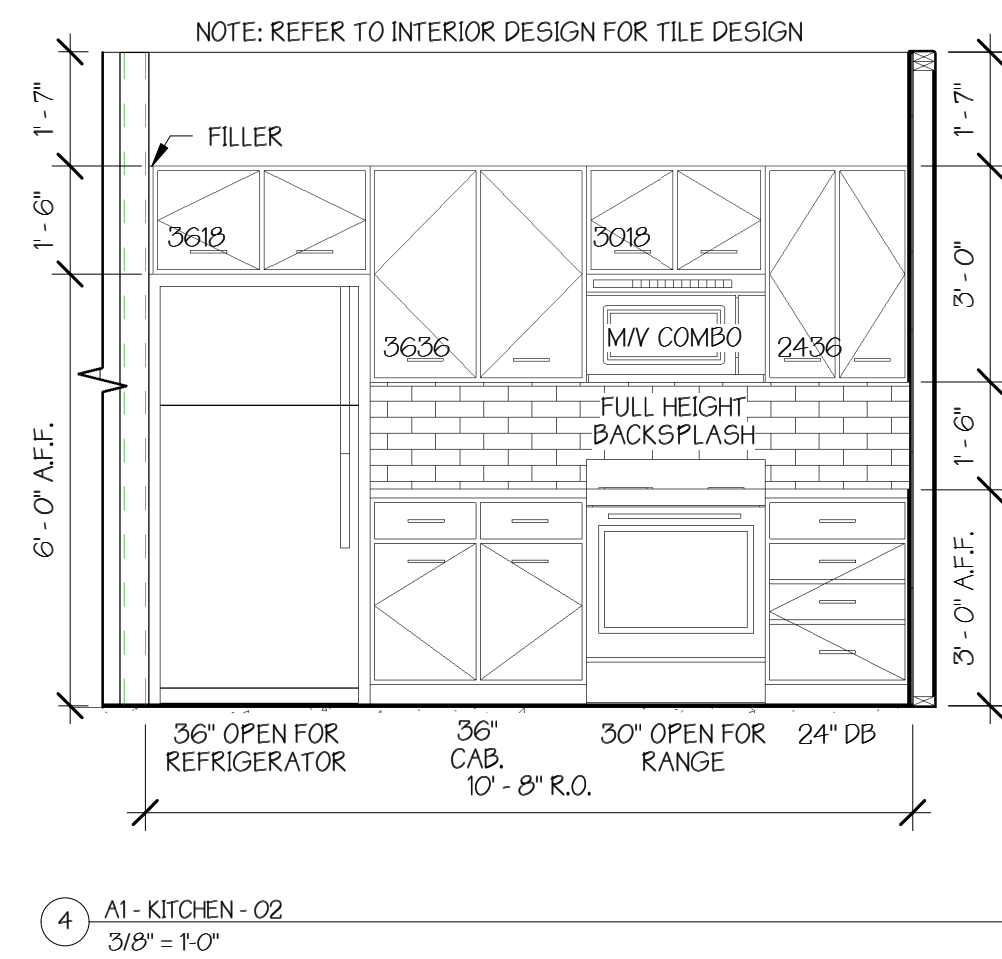
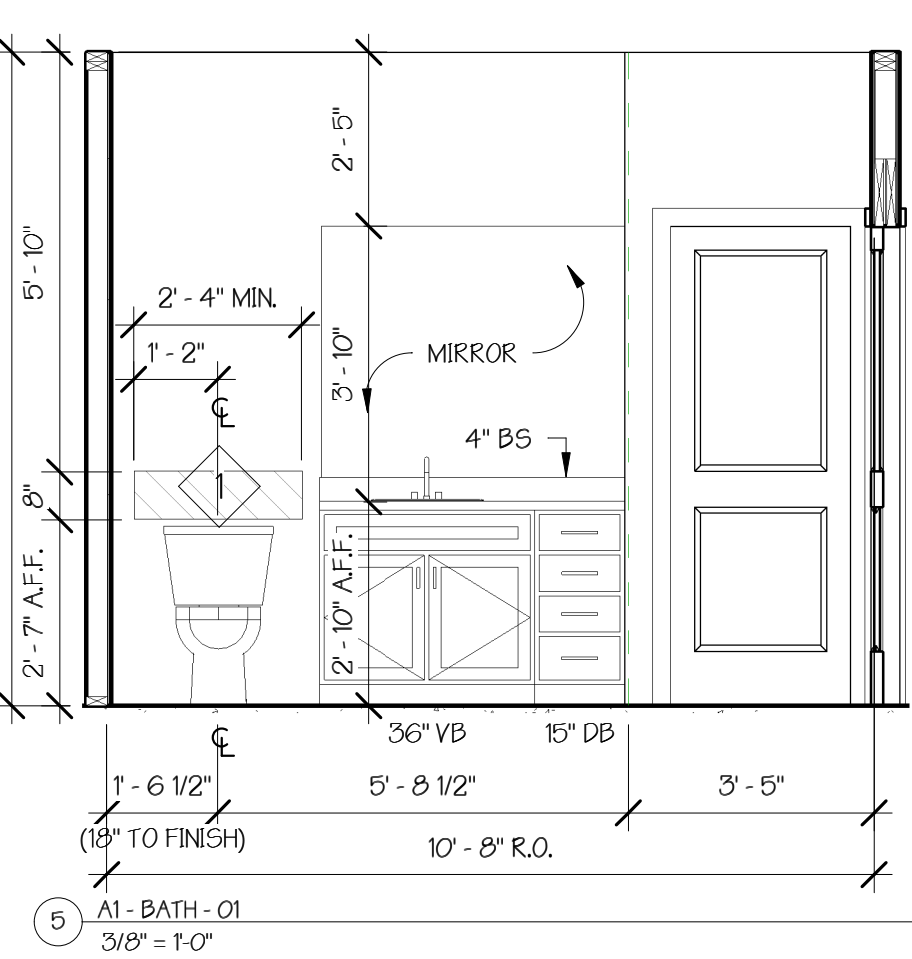
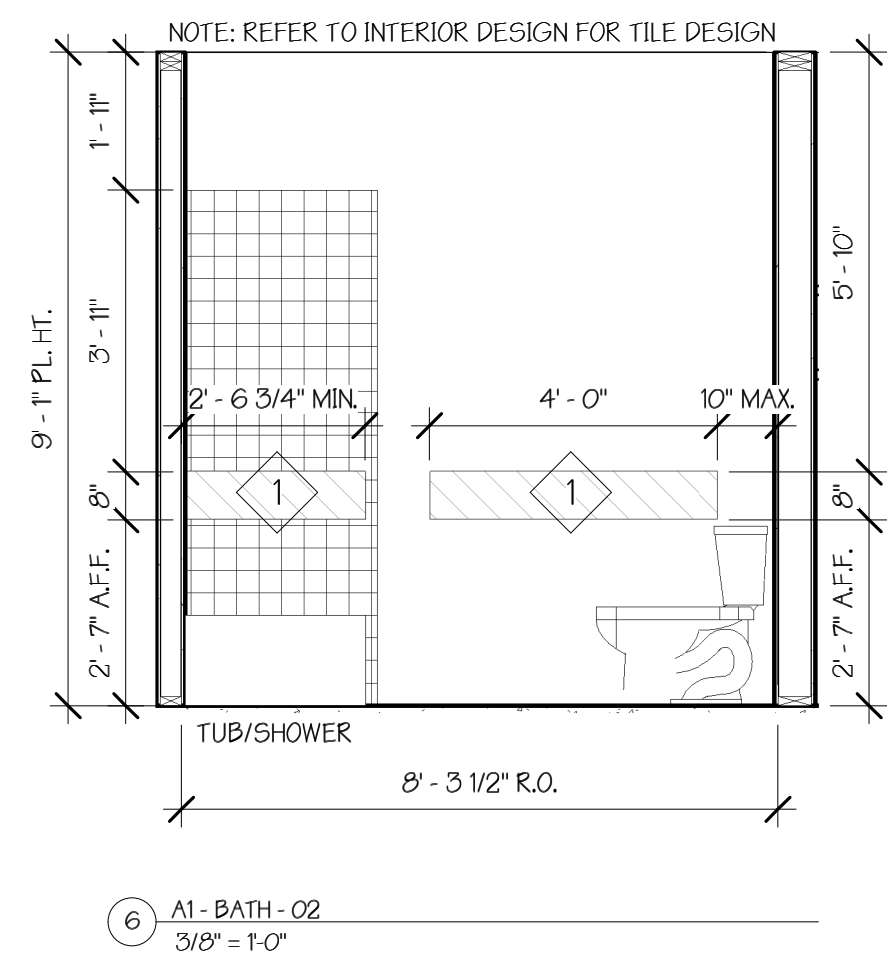
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MOONLIGHT GARDEN
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DWG NAME		
DATE		
10/17/13		
DESCRIPTION		
TYPE B UNIT ACCESSIBILITY		
SHEET		
A3.3		



REFER TO SHEET A3.3 FOR ANSI ADAPTABLE UNIT CLEAR FLOOR
AREAS AND # NOTES.

DESIGNATED TYPE B UNITS PER FHA & ICC/ANSI A117.1-2009 AT ALL FLOORS.

GRAB BARS INSTALLED AT REQUEST OF FUTURE TENANT BUT
BLOCKING MUST BE PROVIDED AT TIME OF INITIAL CONSTRUCTION

SMOKE DETECTORS WITHIN THE UNIT ARE TO BE INTERCONNECTED IN SUCH A WAY THAT ACTIVATION OF ONE DETECTOR WILL ACTIVATE THEM ALL.

REFER TO SHEET A3.0 & 3.0A FOR ALL TYPICAL UNIT DETAILS.

REFER TO SHEET A3.1 FOR THE WINDOW AND DOOR SCHEDULE.

TYPE B ADAPTABLE UNITS
PER FHA AND ICC/ANSI A117.1-2009
(SEE SHEETS A1.3, A1.3A, A1.6)

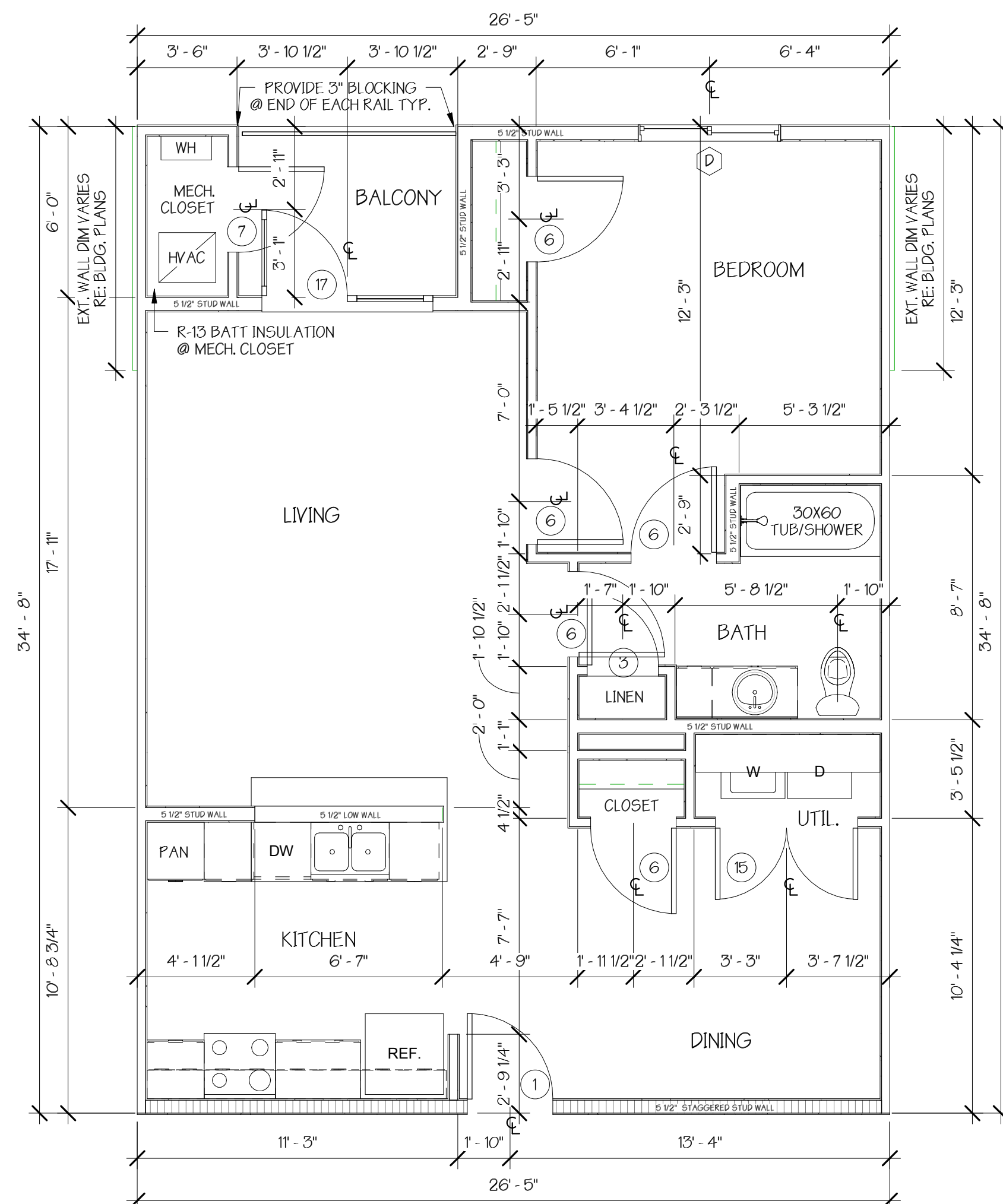
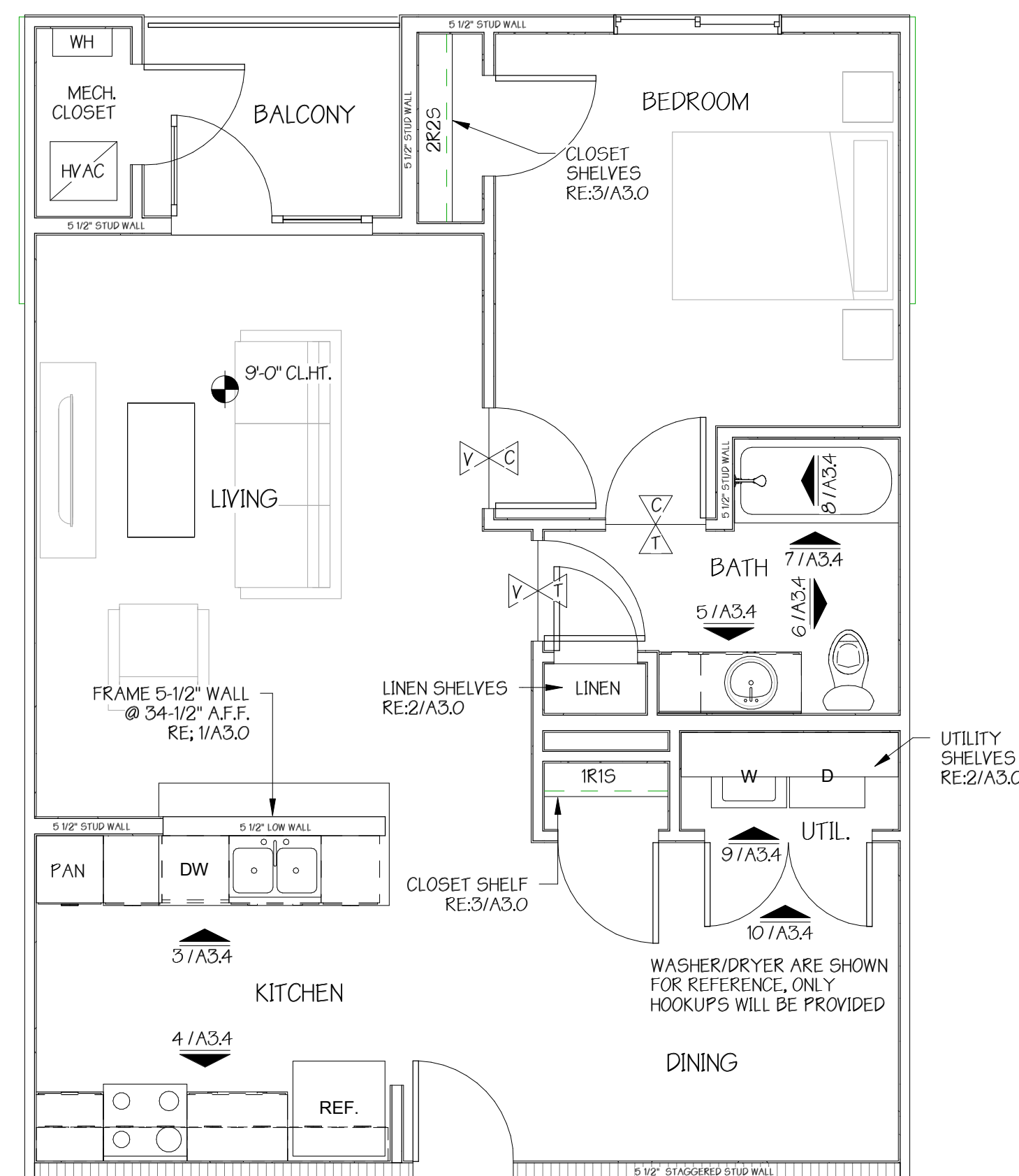
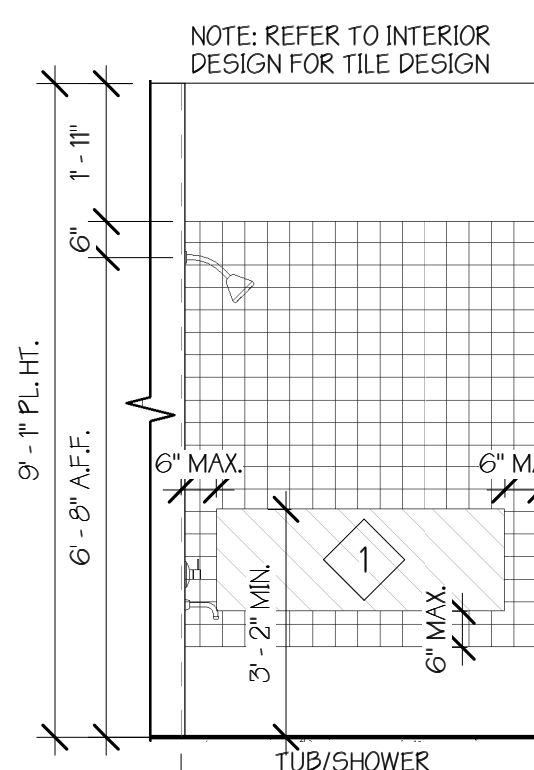
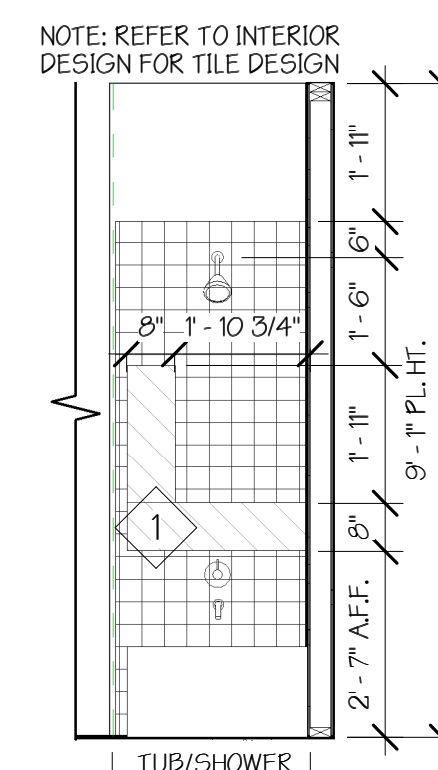
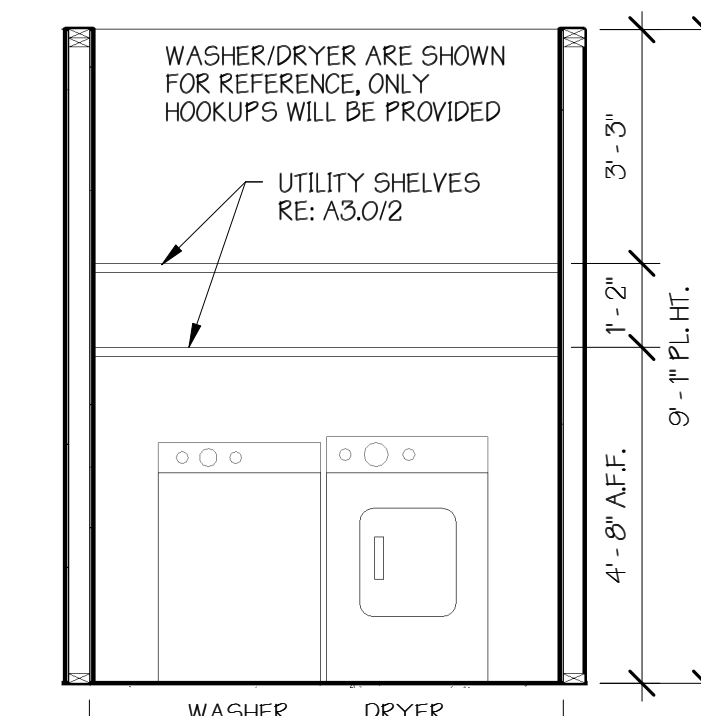
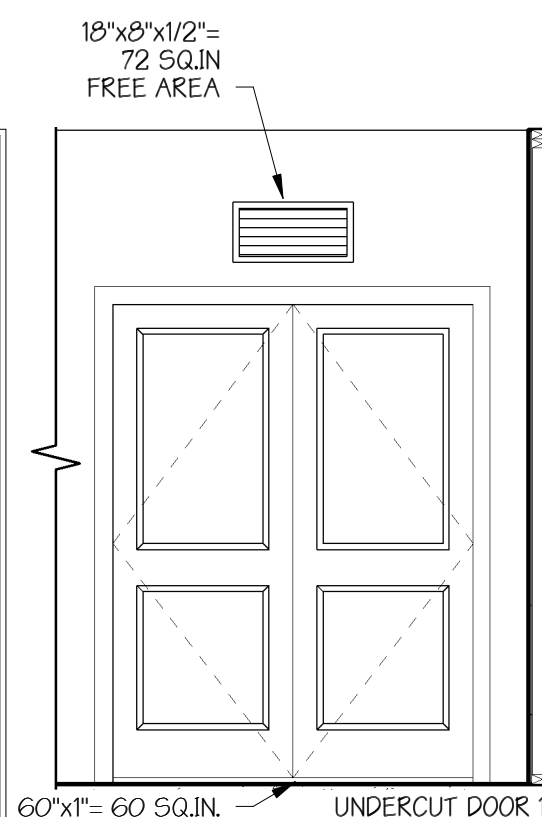
1 GRAB BAR INSTALLED @ REQUEST OF RESIDENT.
PROVIDE SUFFICIENT ADDITIONAL BLOCKING AS PRE-
SCRIBED IN ACCESSIBILITY GUIDE- LINES (RE: A1.3 & A1.3
FAIR HOUSING ACT UNITS)

2 REMOVABLE BASE CABINET TO CREATE ADDITIONAL KITCHEN SPACE BENEATH COUNTER. EXTEND FLOORING UNDER CABINET & FINISH ADJACENT WALL SURFACES /CABINET AT TIME OF INITIAL CONSTRUCTION.

3 REMOVABLE VANITY BASE CABINET TO CREATE ADDITIONAL KNEE SPACE BENEATH COUNTERTOP. EXTEND FLOORING UNDER CABINET & FINISH ADJACENT WALL SURFACES /CABINETS AT TIME OF INITIAL CONSTRUCTION.



FREE AREA REQUIREMENTS
TOTAL FREE AREA REQUIRED = 100 SQ. IN.
TOTAL FREE AREA PROVIDED = 132 SQ. IN.



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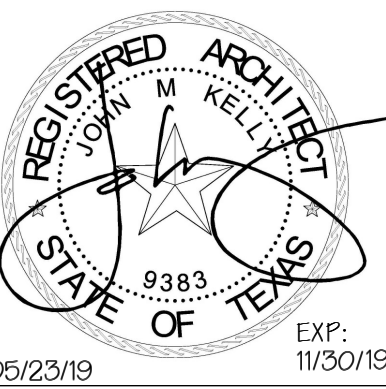
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MOONLIGHT GARDEN
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DATE

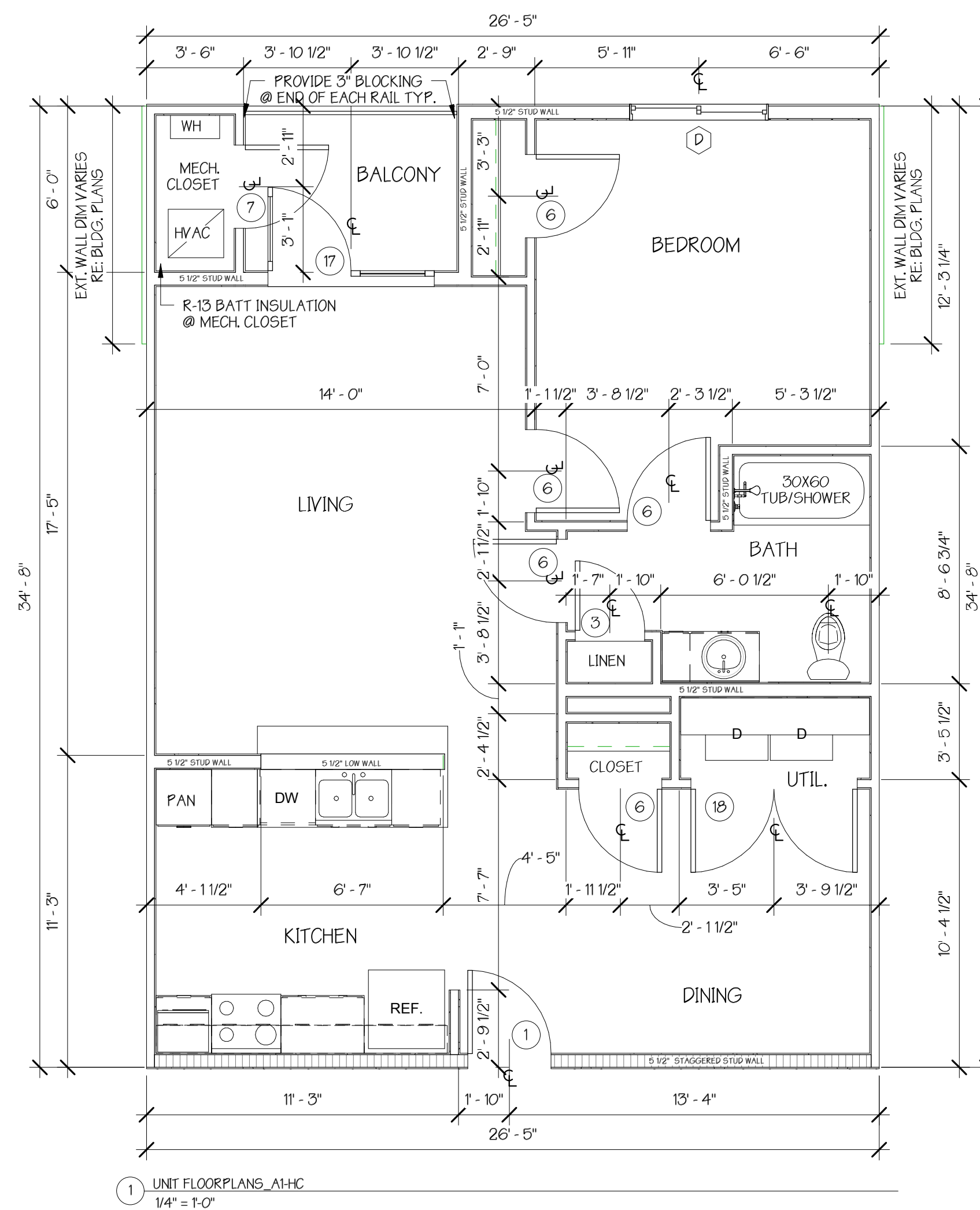
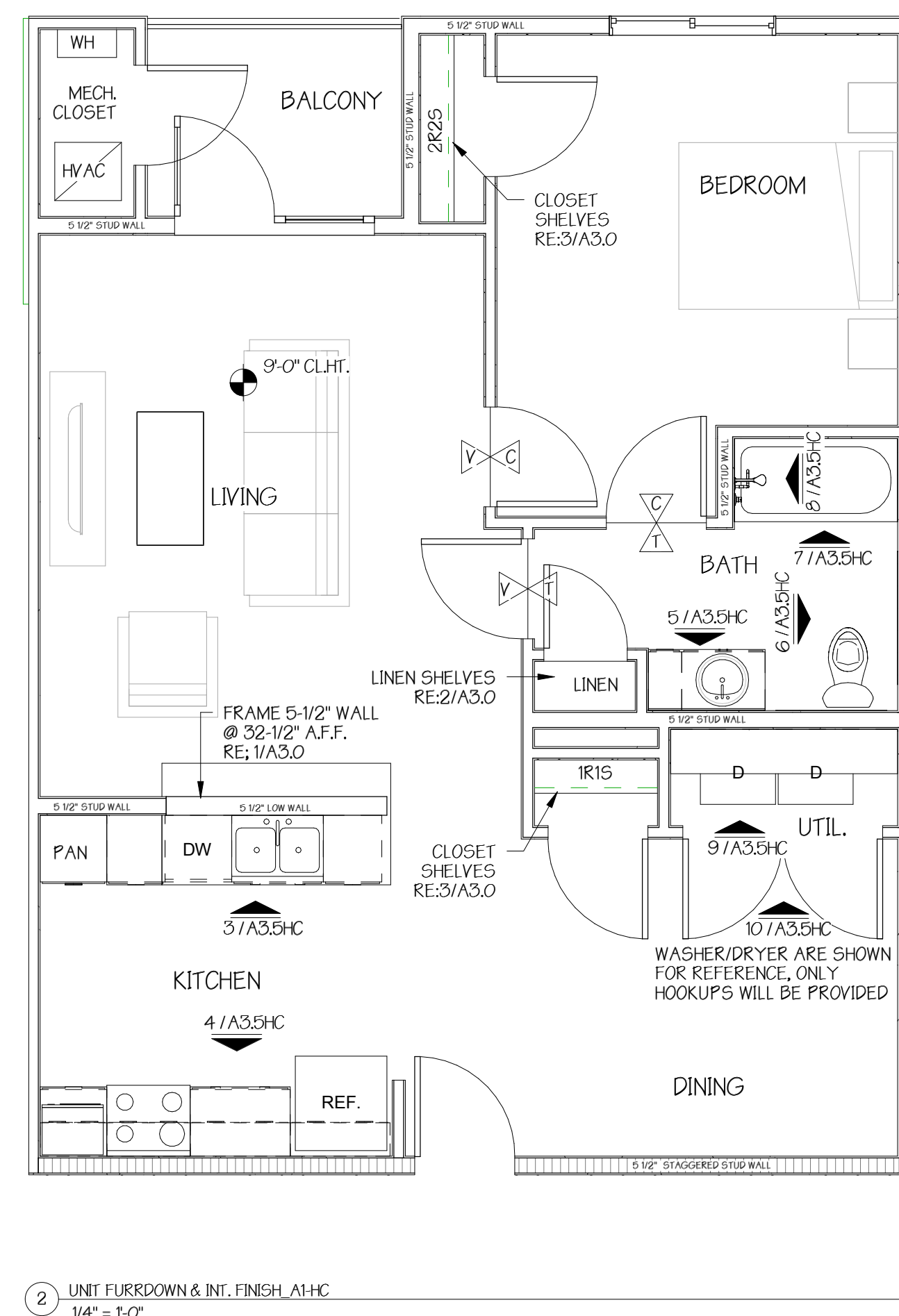
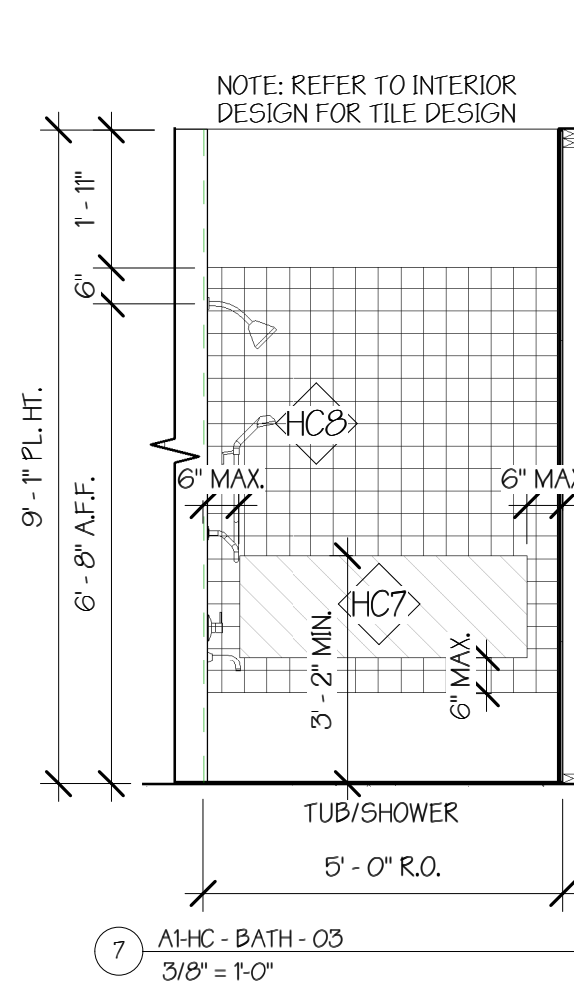
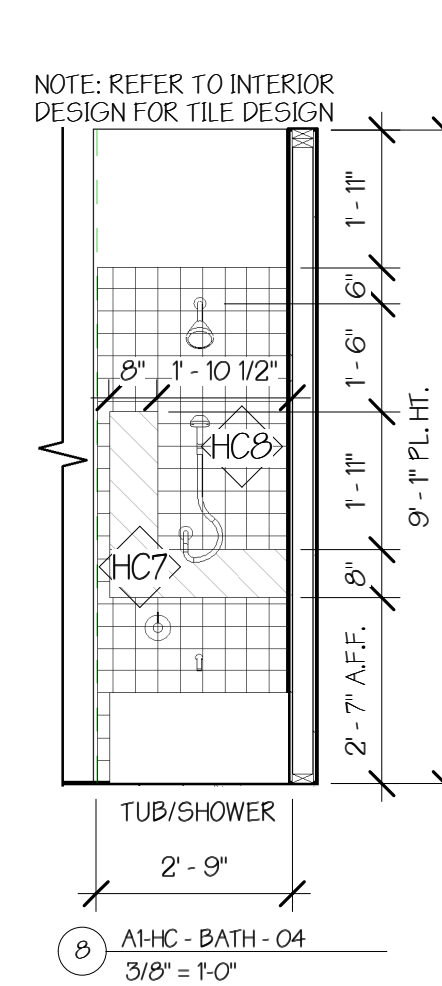
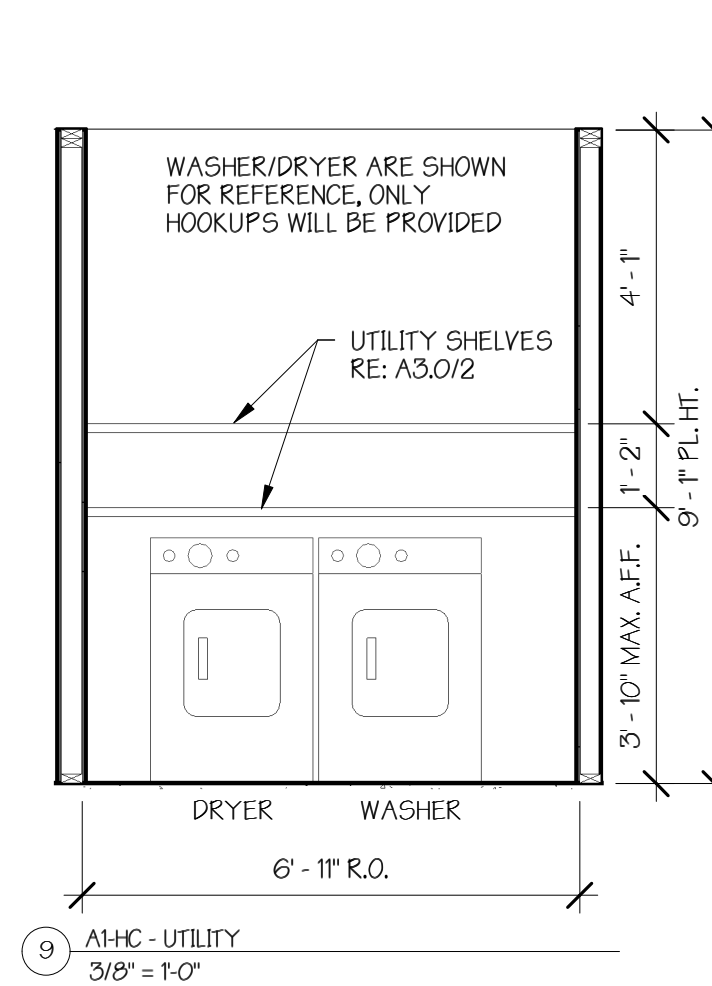
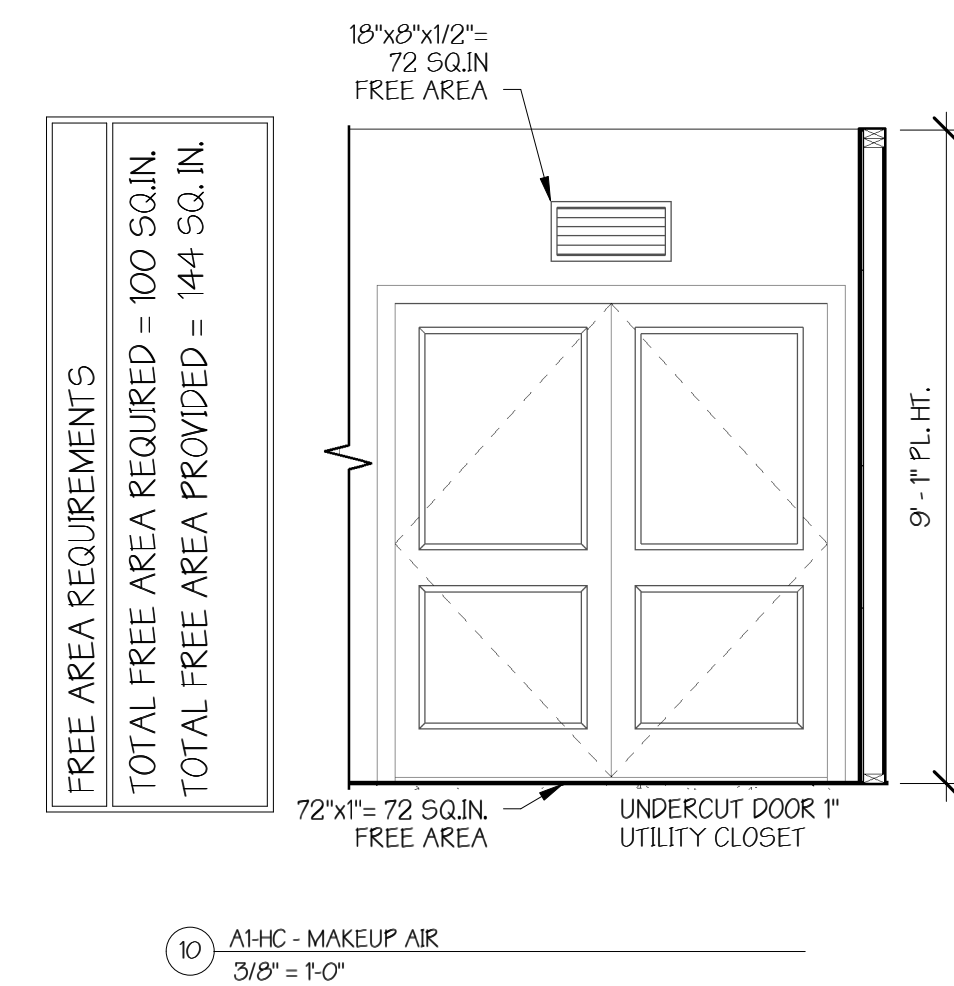
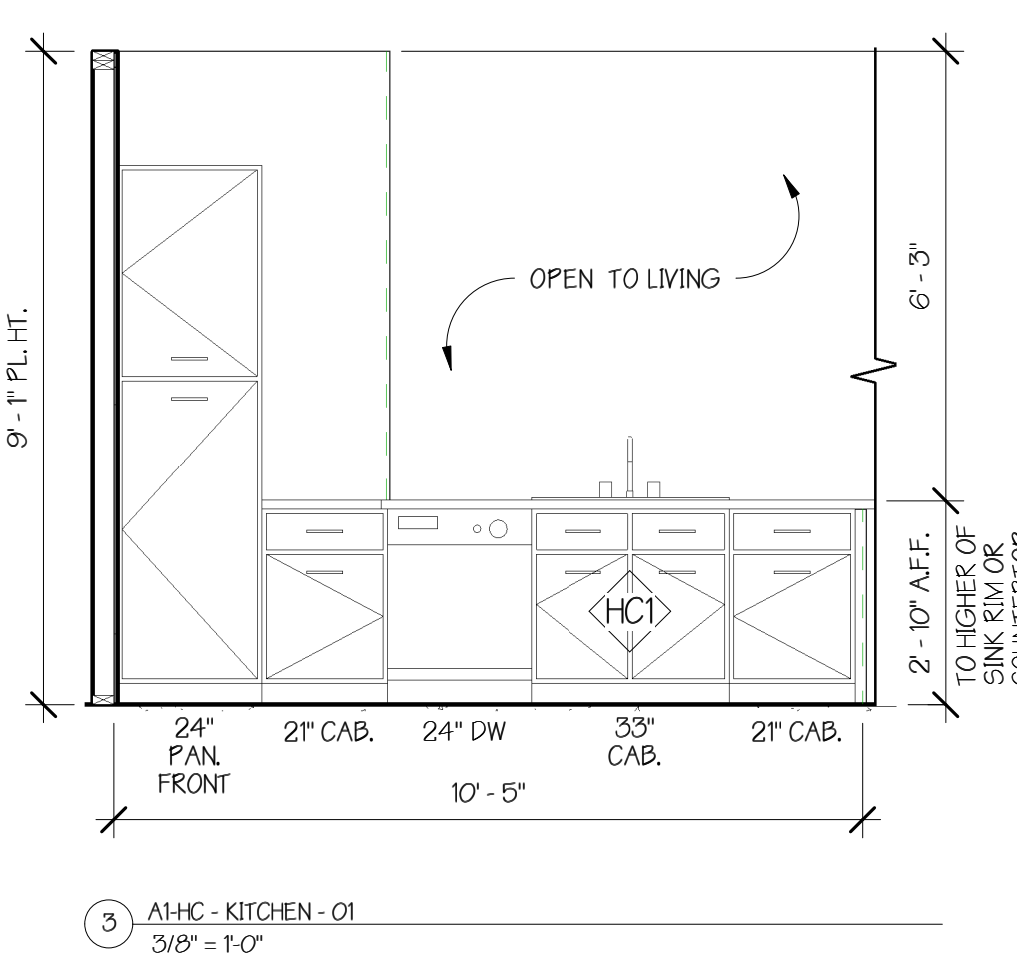
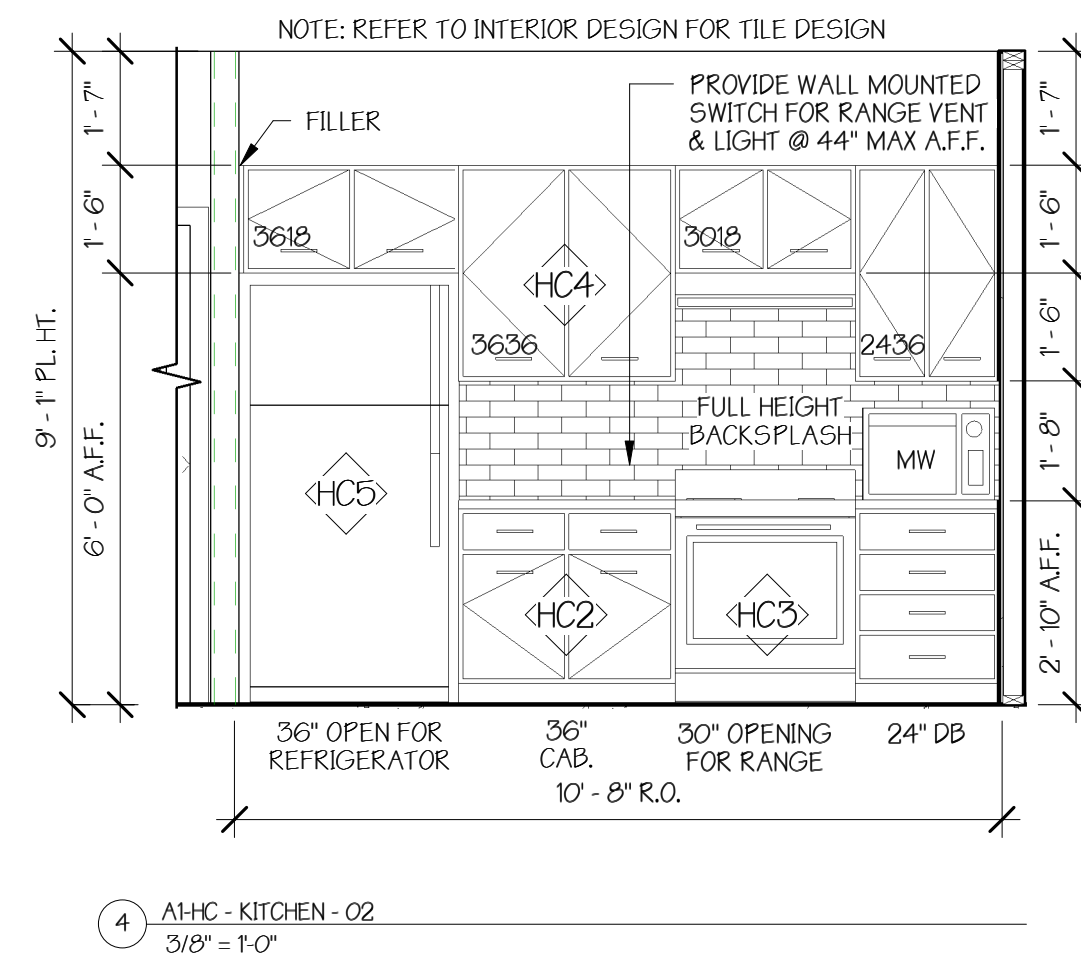
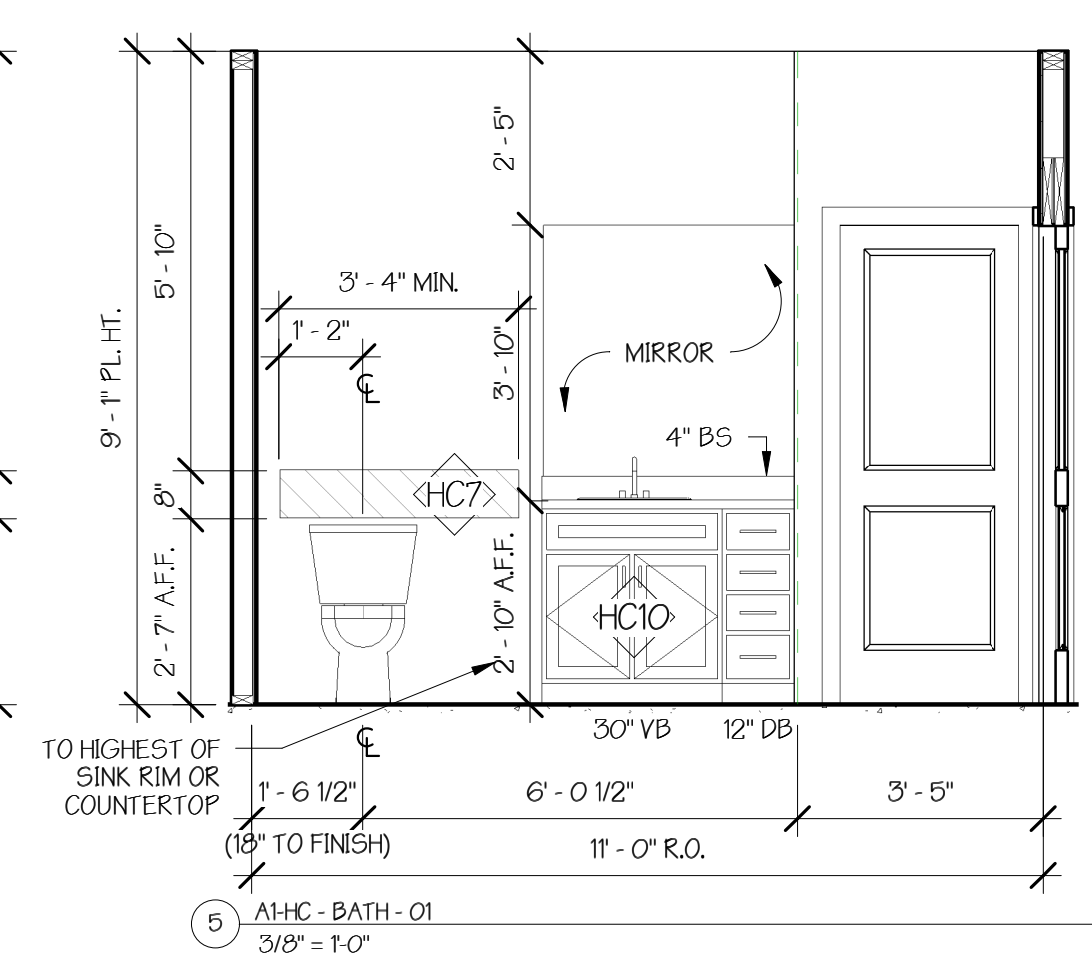
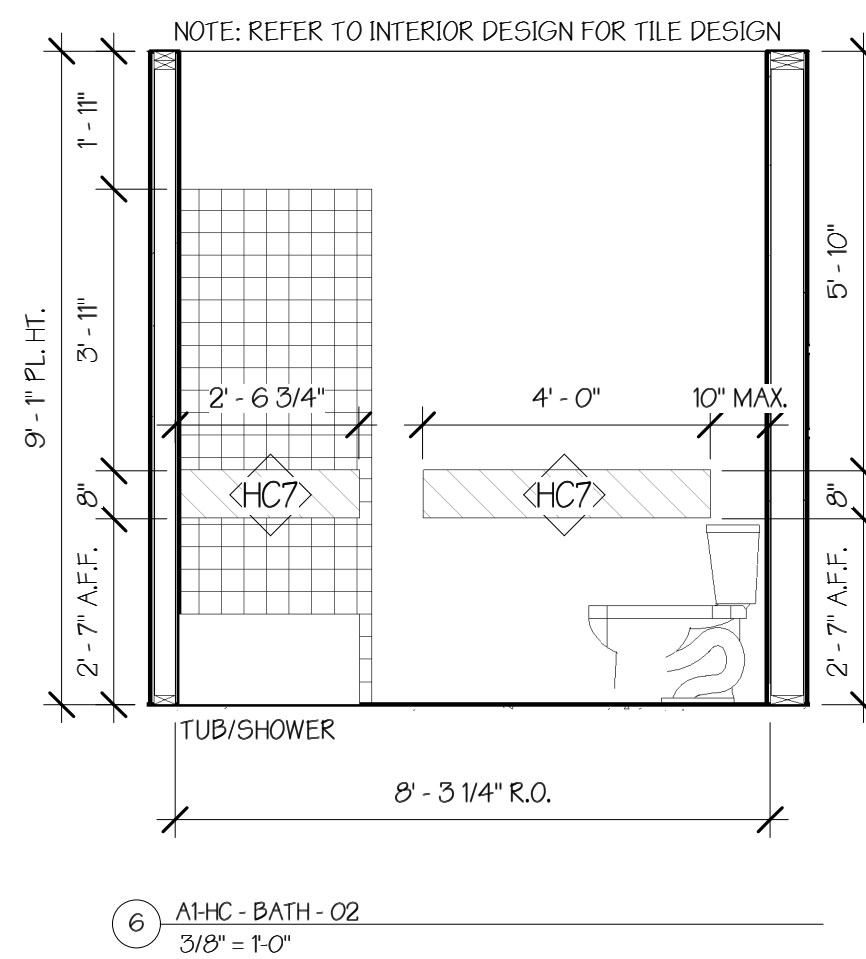
05/03/19

DESCRIPTION

A1 UNIT

SHEET

A3.4



ADAPTABLE ELEMENTS FOR THE 5% ADA
UNITS REQUIRED BY UFAS & THE 2010 ADA
STANDARDS FOR ACCESSIBLE DESIGN.

HC1	REMOVABLE SINK BASE CABINET IN KITCHEN/WREAR DRAIN SINK. PROVIDE PANEL TO COVER PIPING, GARBAGE DISPOSAL, ETC., OR WRAP EXPOSED PIPING, IF CABINET IS REMOVED. EXTEND FLOORING UNDER CABINET & FINISH ADJACENT WALL SURFACES/CABINETS AT TIME OF INITIAL CONSTRUCTION.
HC2	REMOVABLE BASE CABINET IN KITCHEN TO PROVIDE MIN. 30" WORK SPACE. FINISH ADJACENT WALL SURFACES/CABINETS AT TIME OF INITIAL CONSTRUCTION.
HC3	OVENS, RANGES, AND OTHER COOKING DEVICES SHALL HAVE UPFRONT CONTROLS.
HC4	DOOR PULLS OR HANDLES FOR WALL CABINETS SHALL BE MOUNTED AS CLOSE TO THE BOTTOM OF CABINET DOORS AS POSSIBLE. DOOR PULLS OR HANDLES FOR BASE CABINETS SHALL BE MOUNTED AS CLOSE TO THE TOP OF CABINET DOORS AS POSSIBLE.
HC5	REFRIGERATOR/FREEZERS MUST BE OF THE VERTICAL SIDE-BY-SIDE TYPE; OR OF THE VERTICAL OVER-AND-UNDER TYPE WITH AT LEAST 50" OF THE FREEZER SPACE BELOW 54" ABOVE THE FLOOR AND 400" OF THE REFRIGERATOR SPACE AND CONTROLS BELOW 54".
HC6	REMOVABLE SINK BASE CABINET IN BATHROOM. PROVIDE PANEL TO COVER PIPING, OR WRAP EXPOSED PIPING IF CABINET IS REMOVED. EXTEND FLOORING UNDER CABINET AND FINISH ADJACENT WALL SURFACES/CABINETS AT TIME OF INITIAL CONSTRUCTION.
HC7	GRAB BARS INSTALLED AT REQUEST OF FUTURE TENANT, BUT BLOCKING MUST BE PROVIDED AT TIME OF INITIAL CONSTRUCTION.
HC8	PROVIDE HANDHELD SHOWERHEAD WITH A NONPOSITIVE SHUT-OFF FEATURE & A 55" MAXIMUM LENGTH HOSE THAT CAN ALSO BE USED AS A FIXED SHOWER HEAD. INSTALL AT TIME OF INITIAL CONSTRUCTION.
HC9	FOLDING SHOWER SEAT INSTALLED AT REQUEST OF FUTURE TENANT, BUT BLOCKING MUST BE PROVIDED AT TIME OF INITIAL CONSTRUCTION.
HC10	REMOVABLE BASE IN BATHROOM TO PROVIDE REQUIRED CLEAR FLOOR AREA FOR WATER CLOSET OR BATHTUB. PROVIDE WALL MOUNTED END PANEL TO SUPPORT COUNTERTOP. FINISH ADJACENT WALL SURFACES/CABINETS AT TIME OF INITIAL CONSTRUCTION.
HC11	DISHWASHER SHOULD BE ADA COMPLAINT AND ABLE TO FIT UNDER 24"XO" COUNTER.
HC12	ADA COMPLAINT REMOVABLE BATHTUB SEAT TO BE INSTALLED AT TIME OF INITIAL CONSTRUCTION. TOP OF SEAT TO BE 17"-19" A.F.F., 15"-46" IN DEPTH, & CAPABLE OF SECURE PLACEMENT.
SEE SHEETS	FOR FURTHER INFORMATION

SITES, BUILDINGS, STRUCTURES, FACILITIES, ELEMENTS AND SPACES, TEMPORARY OR PERMANENT, SHALL BE ACCESSIBLE TO PERSONS WITH PHYSICAL DISABILITIES PER IBC 1103.1

REFER TO SHEET A3.2 FOR ANSI ADAPTABLE UNIT CLEAR FLOOR AREAS AND # NOTES.

DESIGNATED TYPE B UNITS PER FHA & ICC/ANSI A117.1-2009 AT ALL FLOORS.

GRAB BARS INSTALLED AT REQUEST OF FUTURE TENANT
BUT BLOCKING MUST BE PROVIDED AT TIME OF INITIAL
CONSTRUCTION

SMOKE DETECTORS WITHIN THE UNIT ARE TO BE INTERCONNECTED IN SUCH A WAY THAT ACTIVATION OF ONE DETECTOR WILL ACTIVATE THEM ALL.

REFER TO SHEET A3.0 & A3.0A FOR ALL TYPICAL UNIT DETAILS.

REFER TO SHEET A3.1 FOR THE WINDOW AND DOOR SCHEDULE.

FLOOR FINISHES
V - VINYL
C - CARPET
T- TILE
NOTE* FIRE EXTINGUISHER LOCATED UNDER KITCHEN SINK

NOTE* FIRE EXTINGUISHER
LOCATED UNDER KITCHEN SINK

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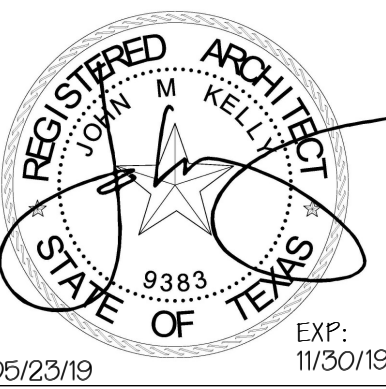
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ROSSING RD, AUSTIN TX
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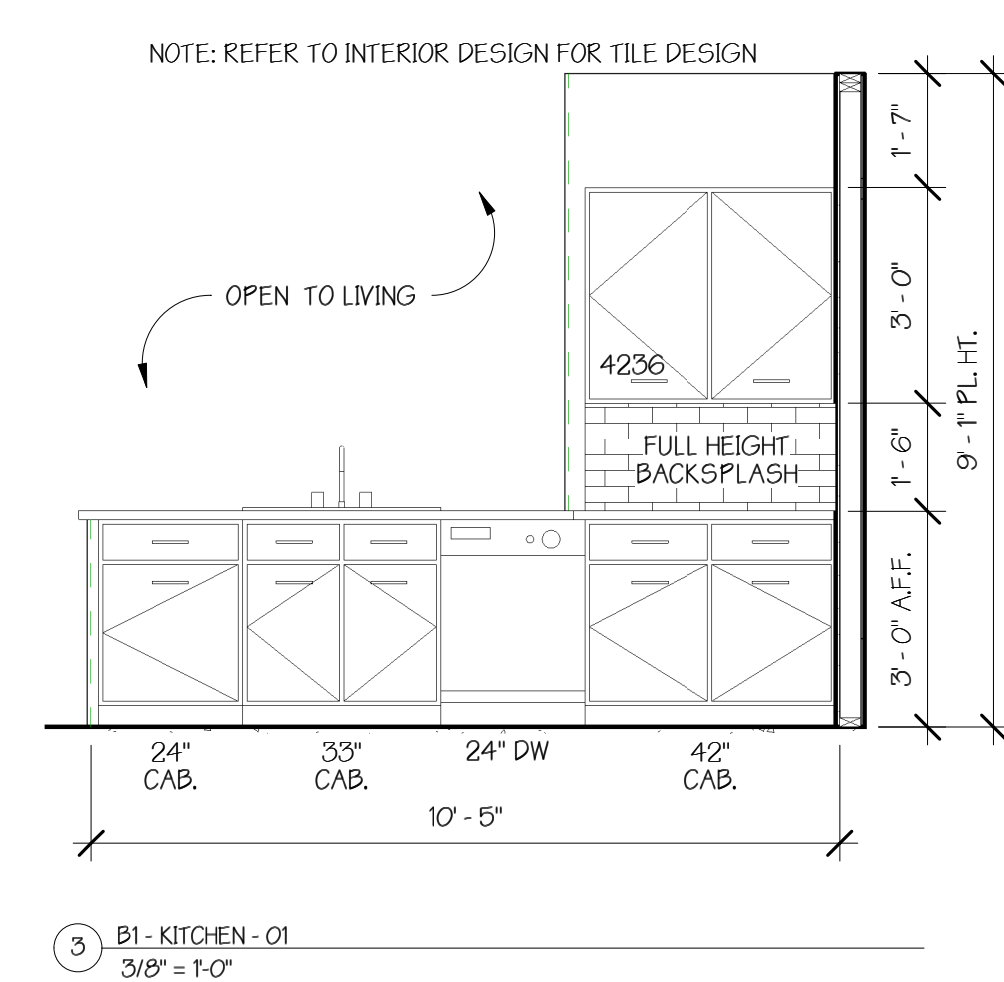
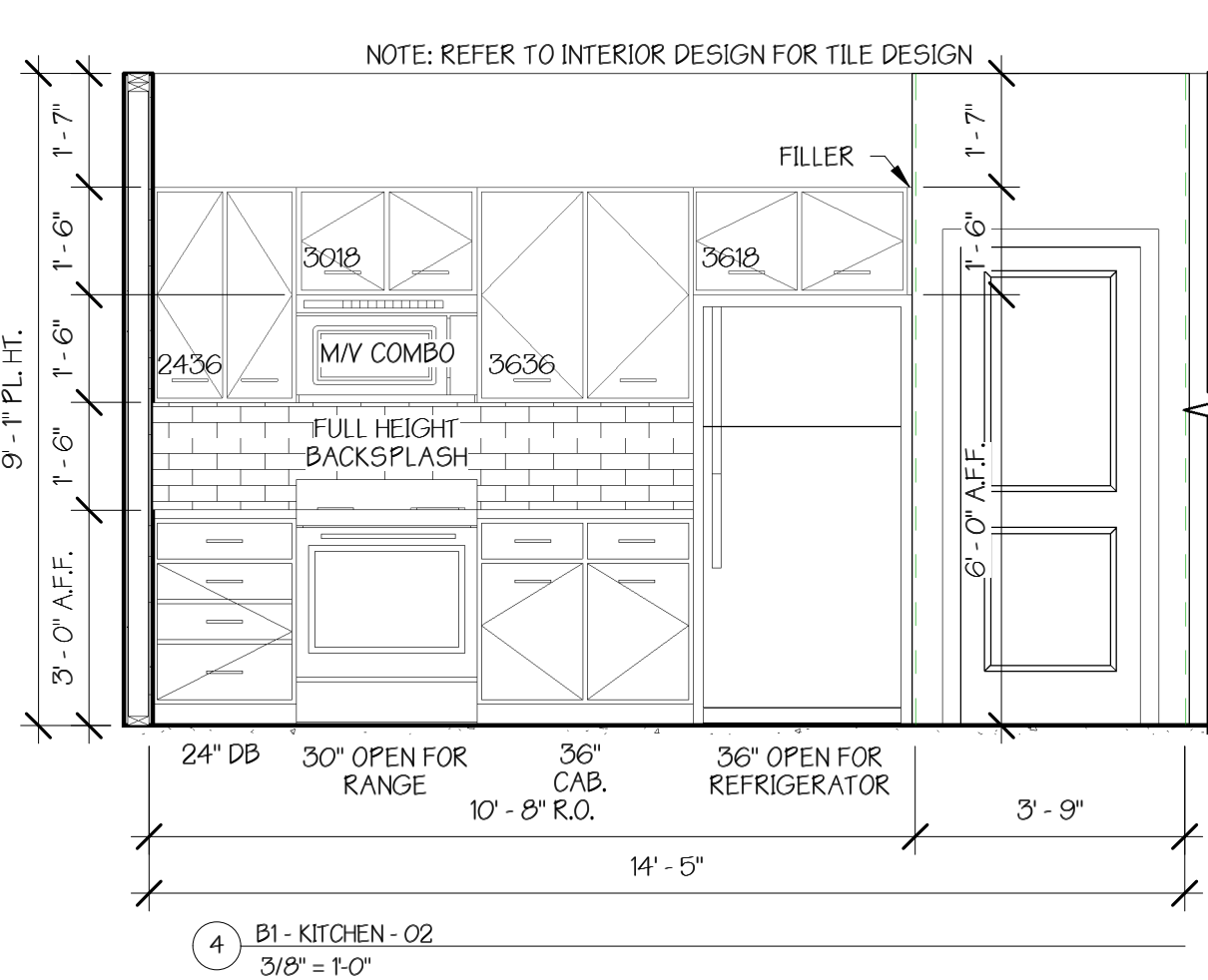
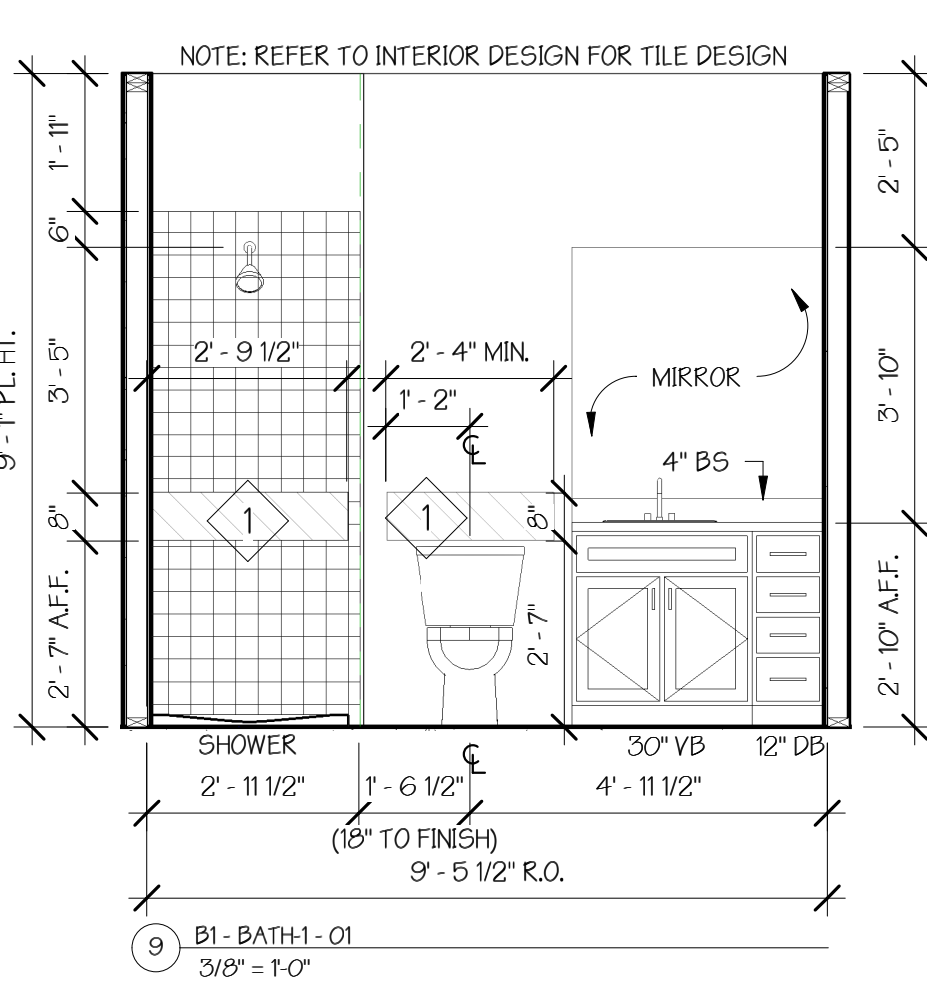
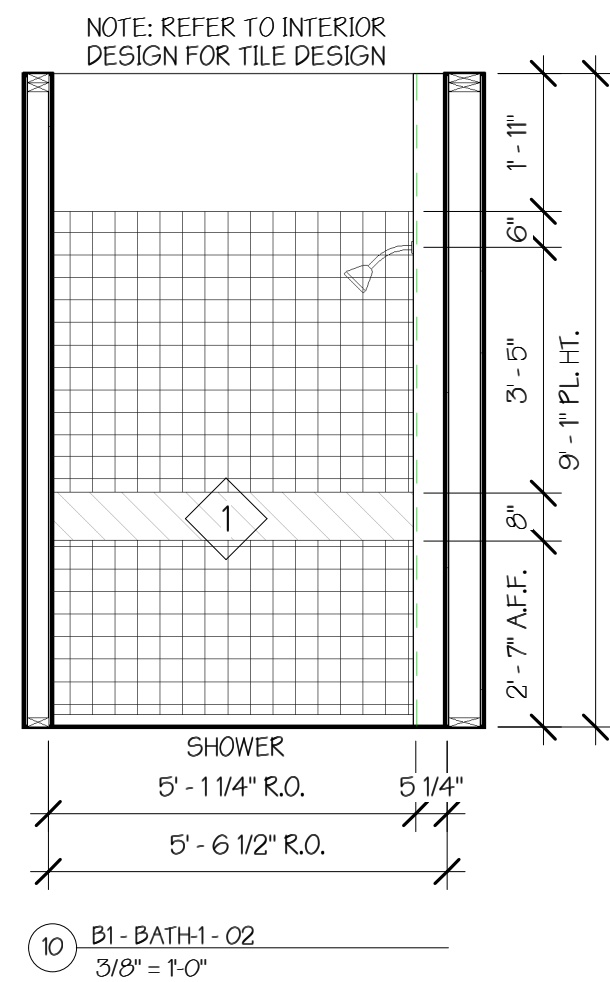
5/03/19

DESCRIPTION

A1-HC UNIT

SHEET

A3.5HC



REFER TO SHEET A3.3 FOR ANSI ADAPTABLE UNIT CLEAR FLOOR AREAS AND # NOTES.

DESIGNATED TYPE B UNITS PER FHA & ICC/ANSI A117.1:2009 AT ALL FLOORS.

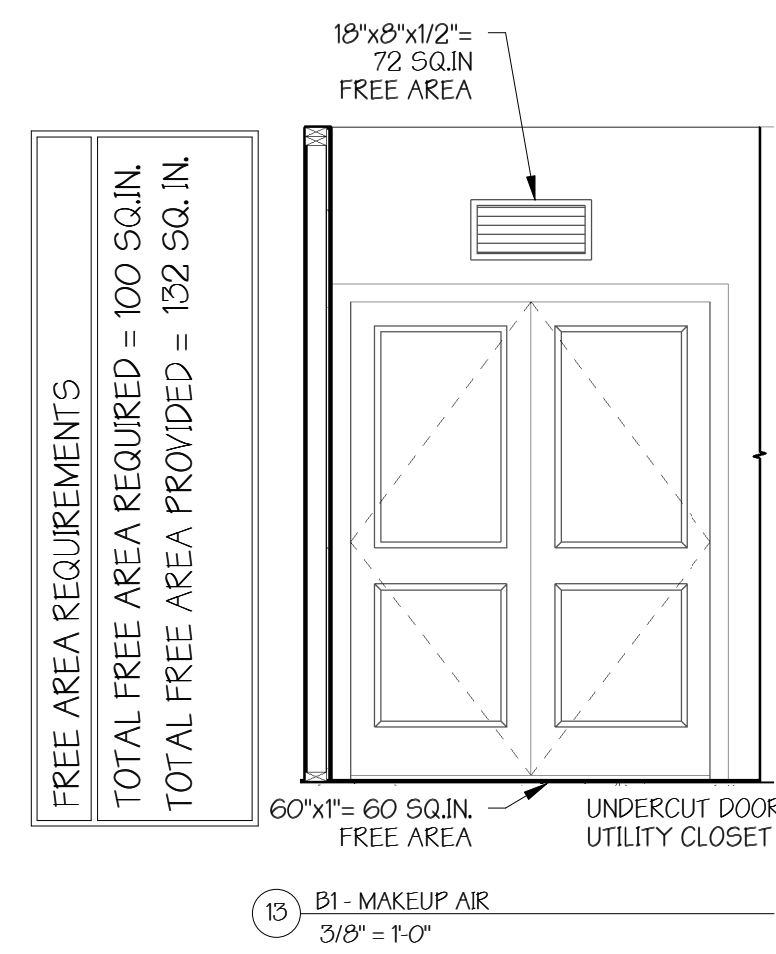
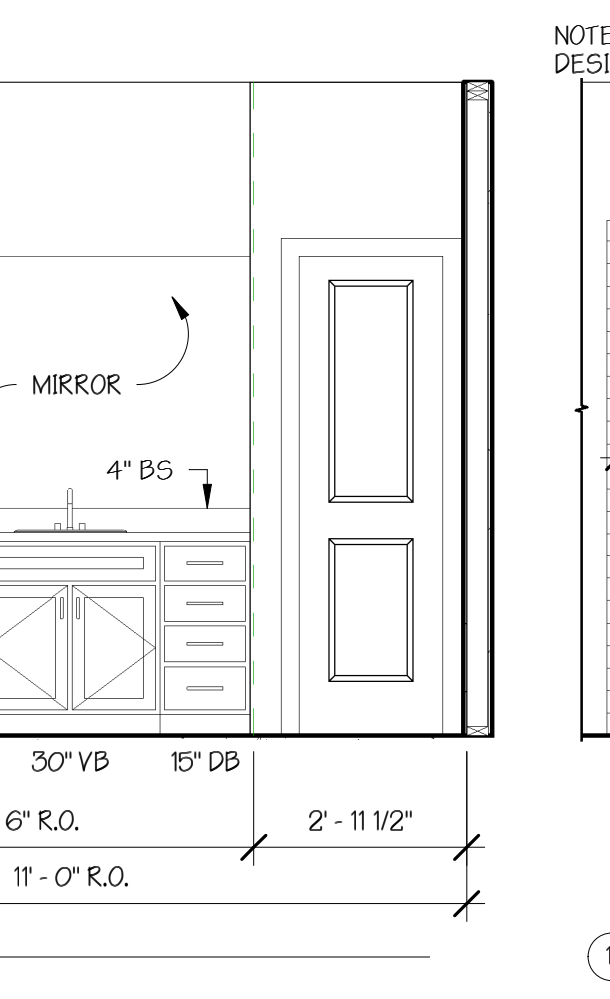
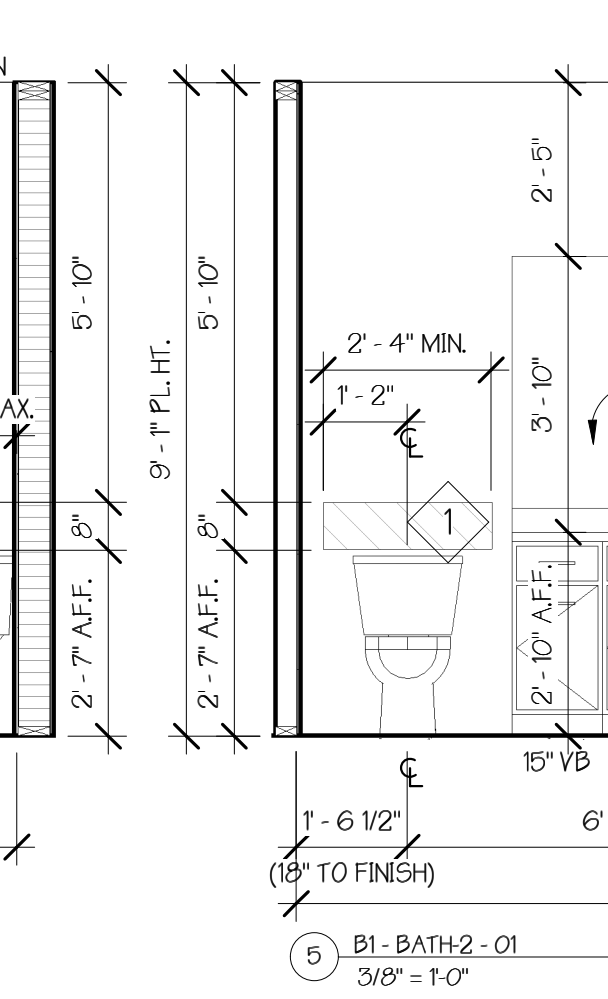
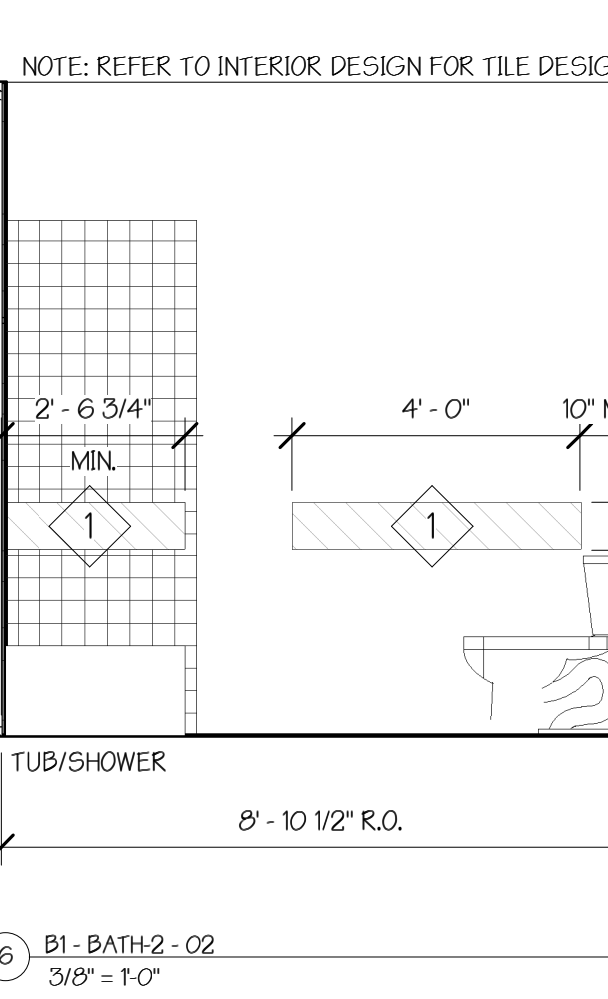
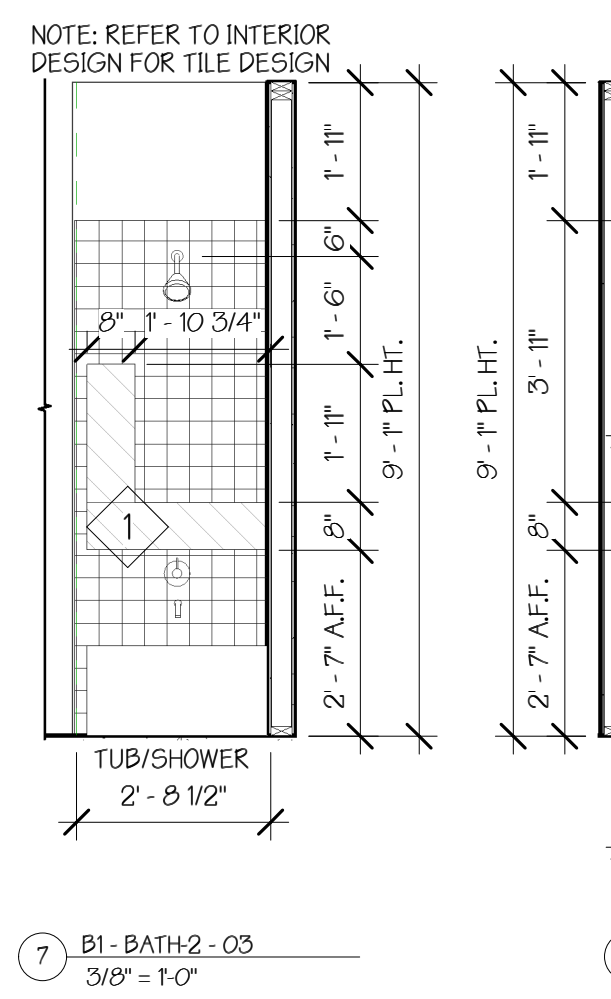
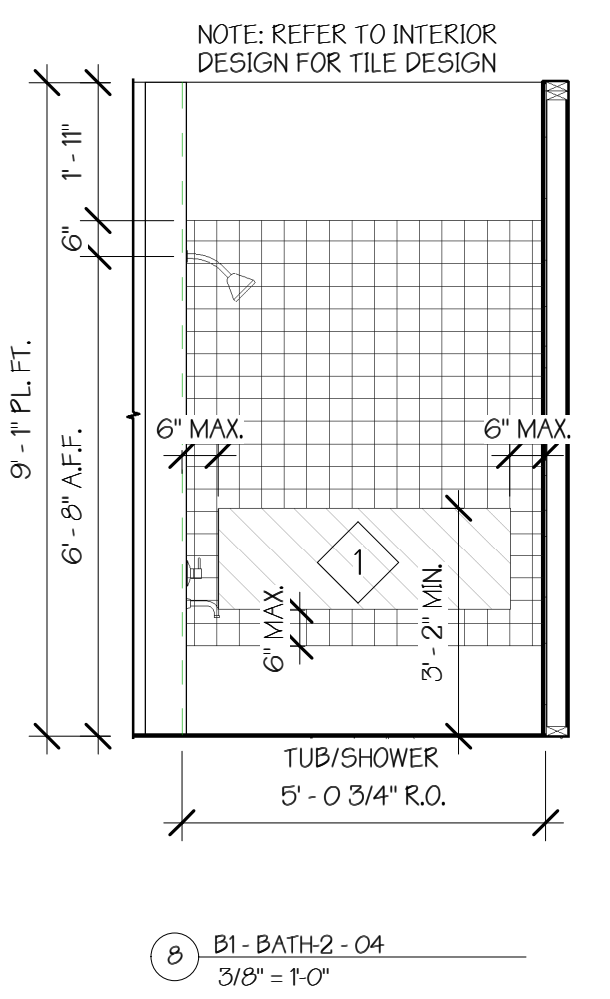
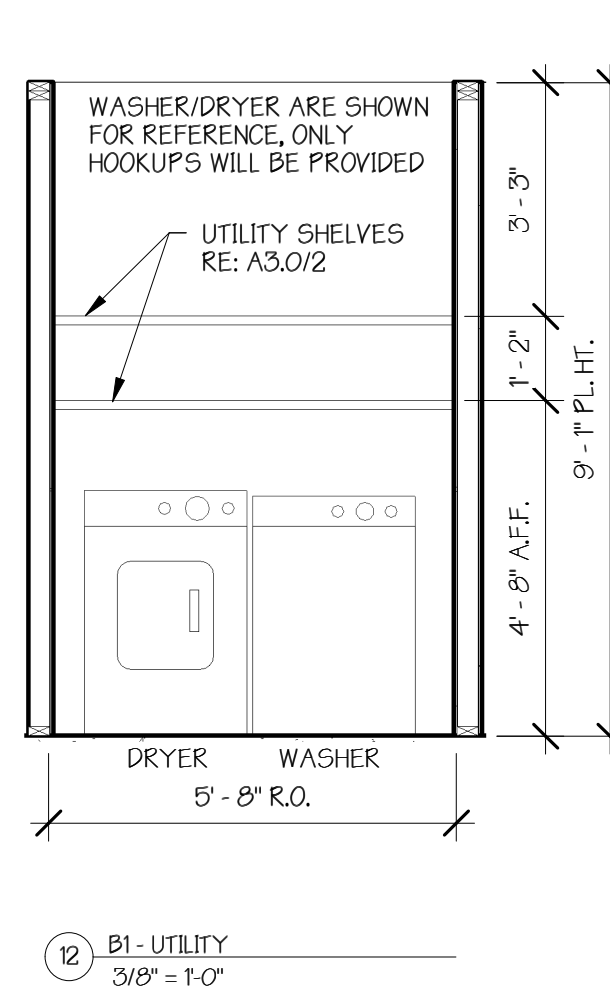
GRAB BARS INSTALLED AT REQUEST OF FUTURE TENANT BUT BLOCKING MUST BE PROVIDED AT TIME OF INITIAL CONSTRUCTION

SMOKE DETECTORS WITHIN THE UNIT ARE TO BE INTERCONNECTED IN SUCH A WAY THAT ACTIVATION OF ONE DETECTOR WILL ACTIVATE THEM ALL.

REFER TO SHEET A3.0 & 3.0A FOR ALL TYPICAL UNIT DETAILS.

REFER TO SHEET A3.1 FOR THE WINDOW AND DOOR SCHEDULE.

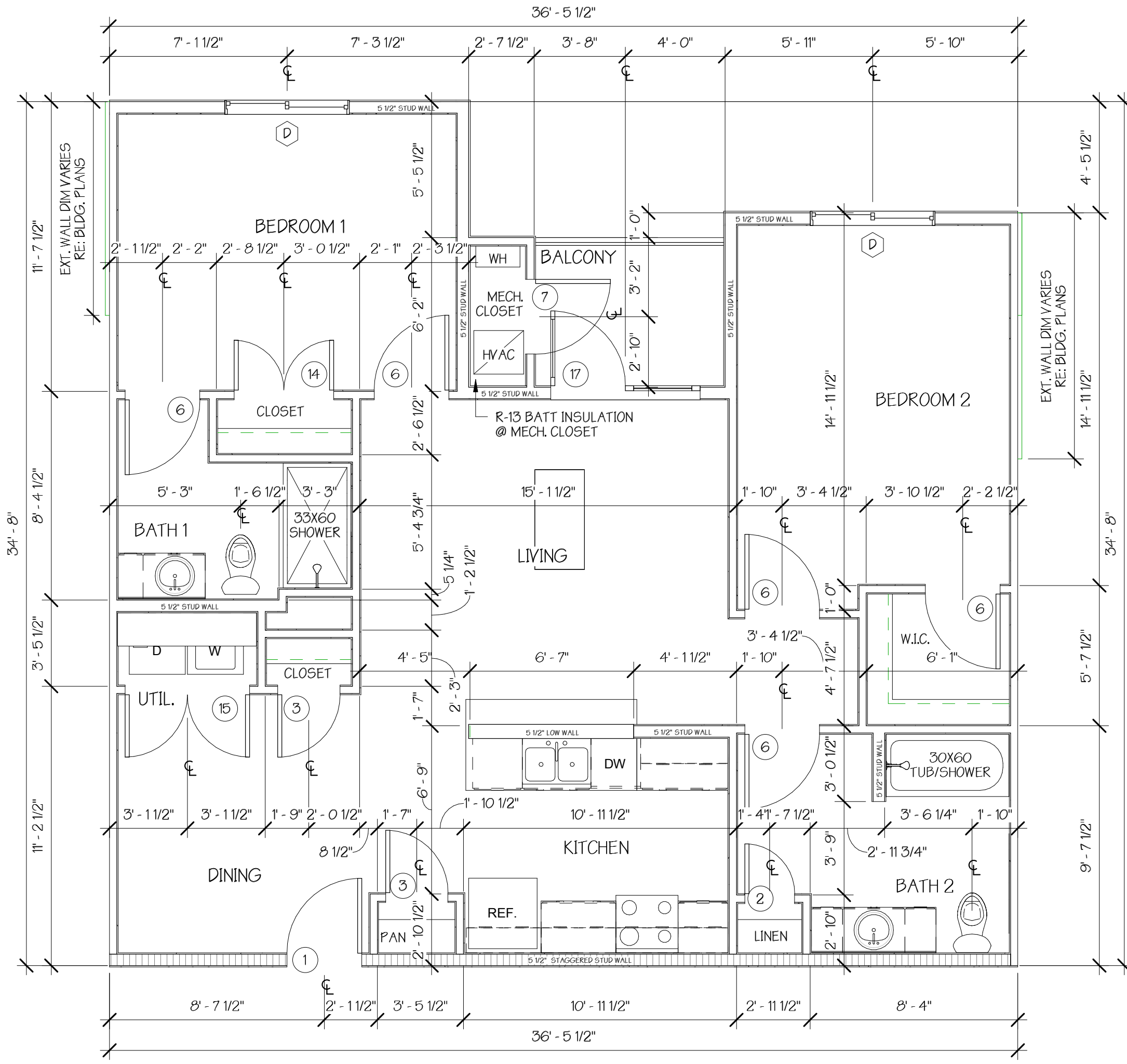
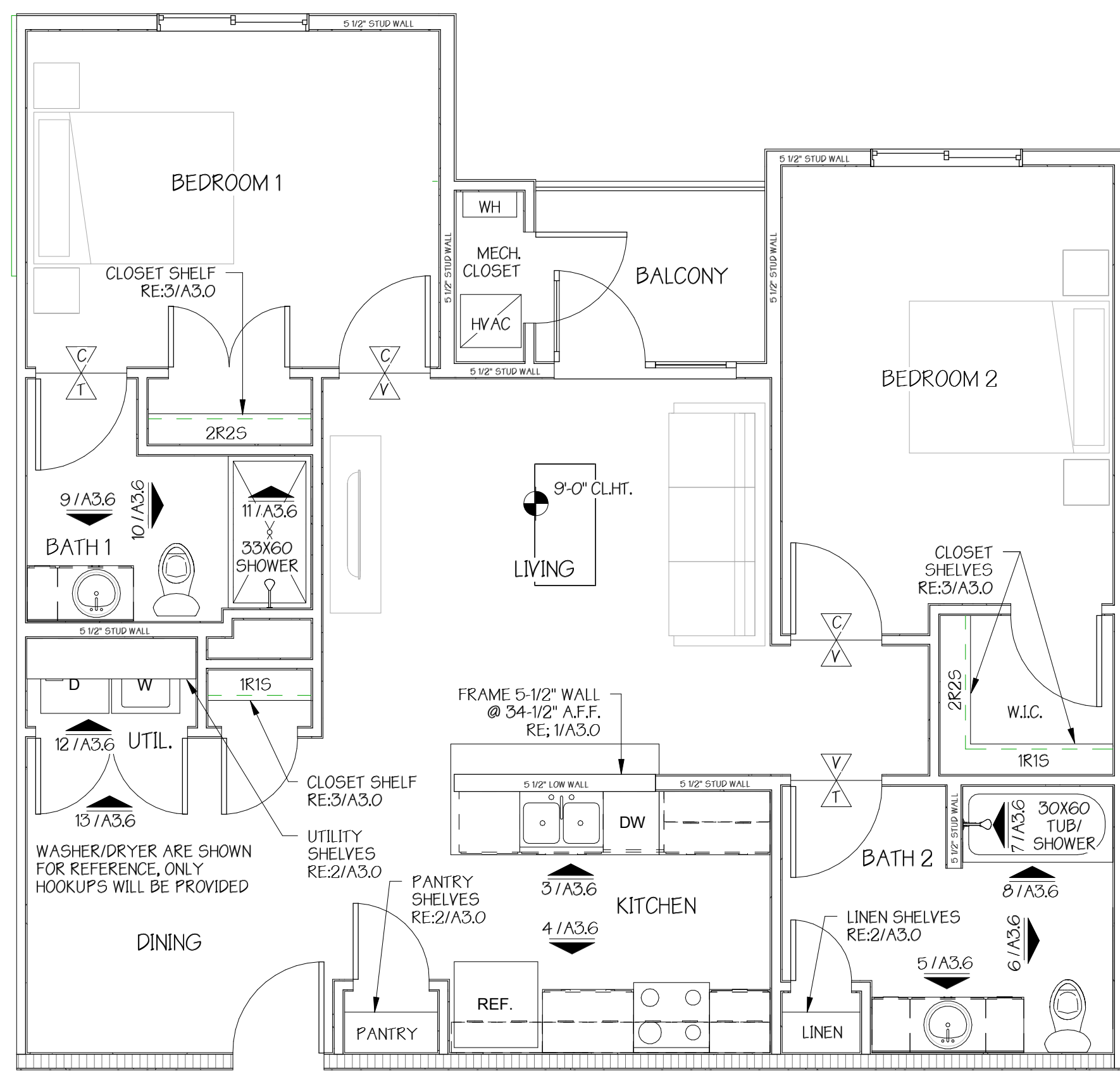
- TYPE B ADAPTABLE UNITS PER FHA AND ICC/ANSI A117.1:2009 (SEE SHEETS A1.3, A1.3A, A1.6)
- GRAB BAR INSTALLED @ REQUEST OF RESIDENT. PROVIDE SUFFICIENT ADDITIONAL BLOCKING AS PRE-SCRIBED IN ACCESSIBILITY GUIDE- LINES (RE: A1.3 & A1.3A FAIR HOUSING ACT UNITS)
 - REMOVABLE BASE CABINET TO CREATE ADDITIONAL KNEE SPACE BENEATH COUNTER. EXTEND FLOORING UNDER CABINET & FINISH ADJACENT WALL SURFACES /CABINETS AT TIME OF INITIAL CONSTRUCTION.
 - REMOVABLE VANITY BASE CABINET TO CREATE ADDITIONAL KNEE SPACE BENEATH COUNTER. EXTEND FLOORING UNDER CABINET & FINISH ADJACENT WALL SURFACES /CABINETS AT TIME OF INITIAL CONSTRUCTION.



FLOOR FINISHES
V - VINYL
C - CARPET
T - TILE

NOTE* FIRE EXTINGUISHER LOCATED UNDER KITCHEN SINK

2 UNIT FURKDOWN & INT. FINISH_B1
1/4" = 1'-0"



DRAWN BY:
DPF, MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

05/23/19
11/30/19

LDG DEVELOPEMENT
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REGISTERED ARCHITECT
STATE OF TEXAS
9383
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WWW.KELLYGROSSMAN.COM
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MOONLIGHT GARDEN
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DESCRIPTION
B1 UNIT

SHEET
A3.6

REFER TO SHEET A3.3 FOR ANSI ADAPTABLE UNIT CLEAR FLOOR AREAS AND # NOTES.

DESIGNATED TYPE B UNITS PER FHA & ICC/ANSI A117.1-2009 AT ALL FLOORS.

GRAB BARS INSTALLED AT REQUEST OF FUTURE TENANT BUT BLOCKING MUST BE PROVIDED AT TIME OF INITIAL CONSTRUCTION

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REFER TO SHEET A3.0 & 3.0A FOR ALL TYPICAL UNIT DETAILS.

REFER TO SHEET A3.1 FOR THE WINDOW AND DOOR SCHEDULE.

- TYPE B ADAPTABLE UNITS
PER FHA AND ICC/ANSI A117.1-2009
(SEE SHEETS A1.3, A1.3A, A1.6)
- 1

GRAB BAR INSTALLED @ REQUEST OF RESIDENT. PROVIDE SUFFICIENT ADDITIONAL BLOCKING AS PRE-SCRIBED IN ACCESSIBILITY GUIDE- LINES (RE: A1.3 & A1.3A FAIR HOUSING ACT UNITS)
- 2

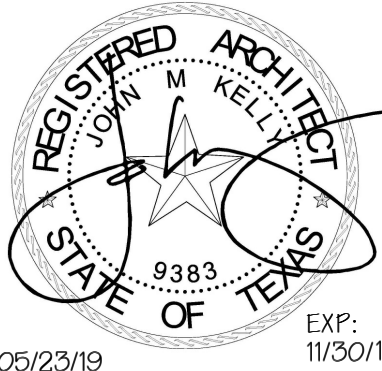
REMOVABLE BASE CABINET TO CREATE ADDITIONAL KNEE SPACE BENEATH COUNTER. EXTEND FLOORING UNDER CABINET & FINISH ADJACENT WALL SURFACES /CABINETS AT TIME OF INITIAL CONSTRUCTION.
- 3

REMOVABLE VANITY BASE CABINET TO CREATE ADDITIONAL KNEE SPACE BENEATH COUNTERTOP. EXTEND FLOORING UNDER CABINET & FINISH ADJACENT WALL SURFACES /CABINETS AT TIME OF INITIAL CONSTRUCTION.

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DPF, MAR

CHECKED BY:
JMK

PROJECT #:
18-2325



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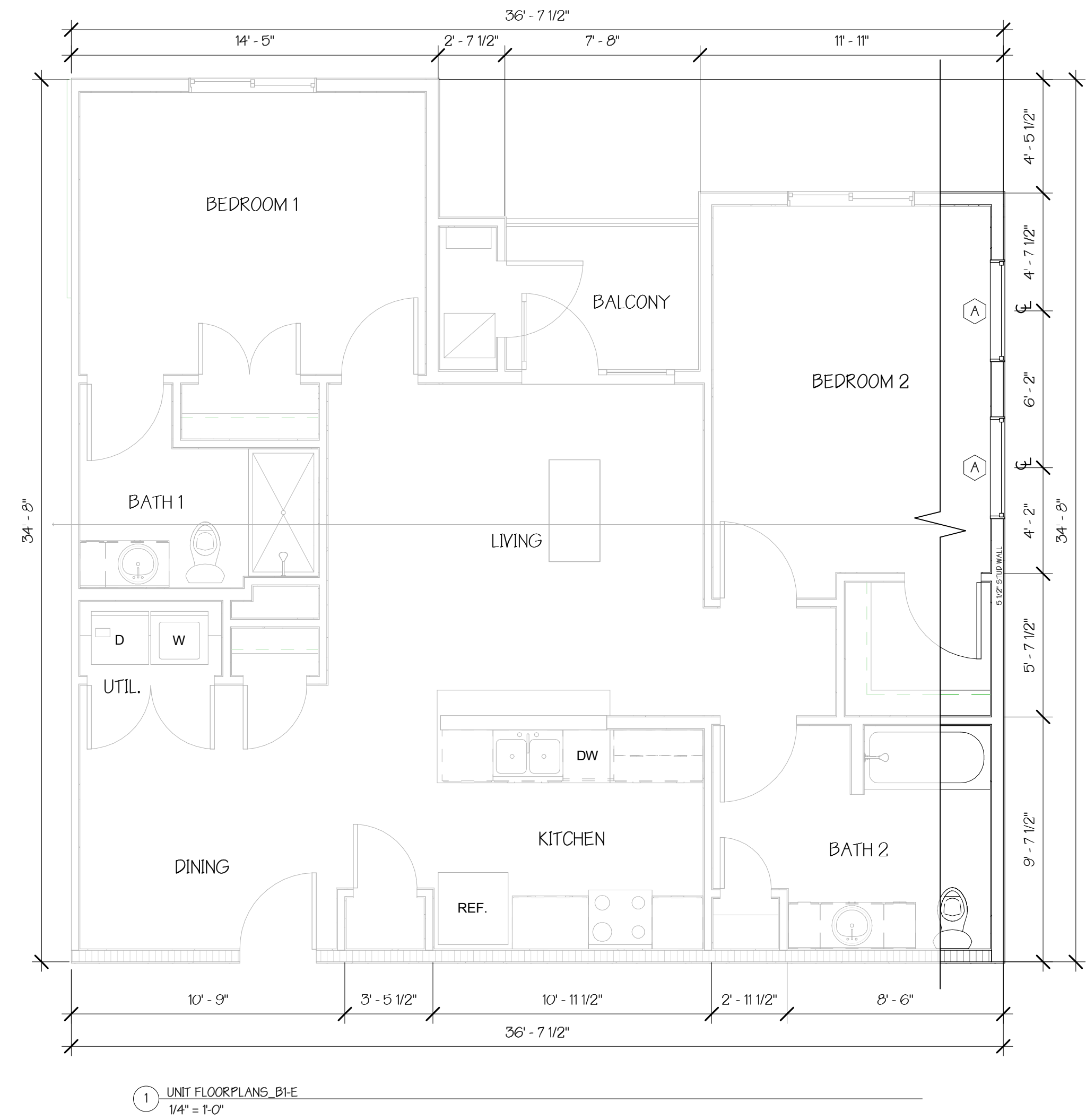
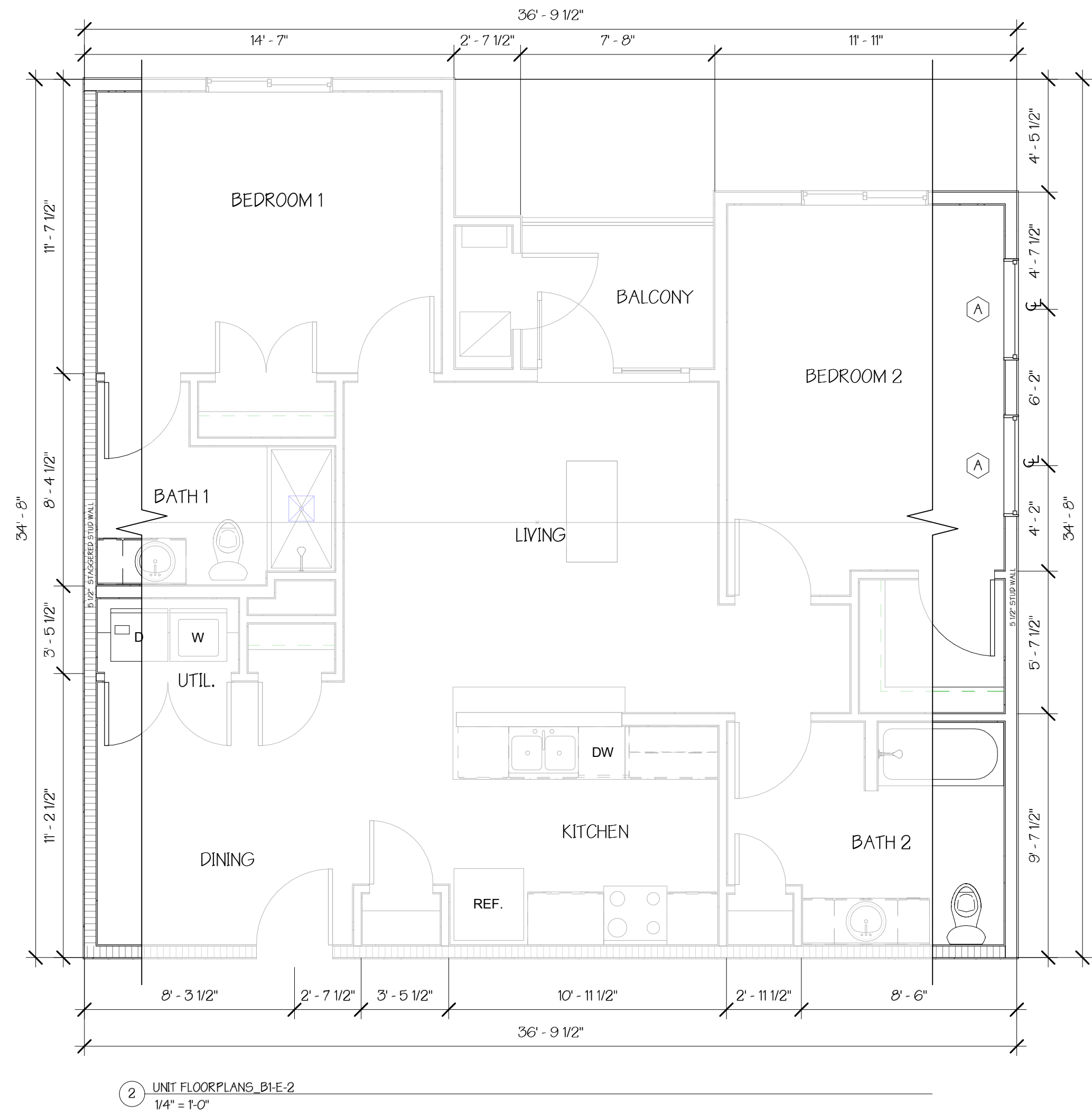
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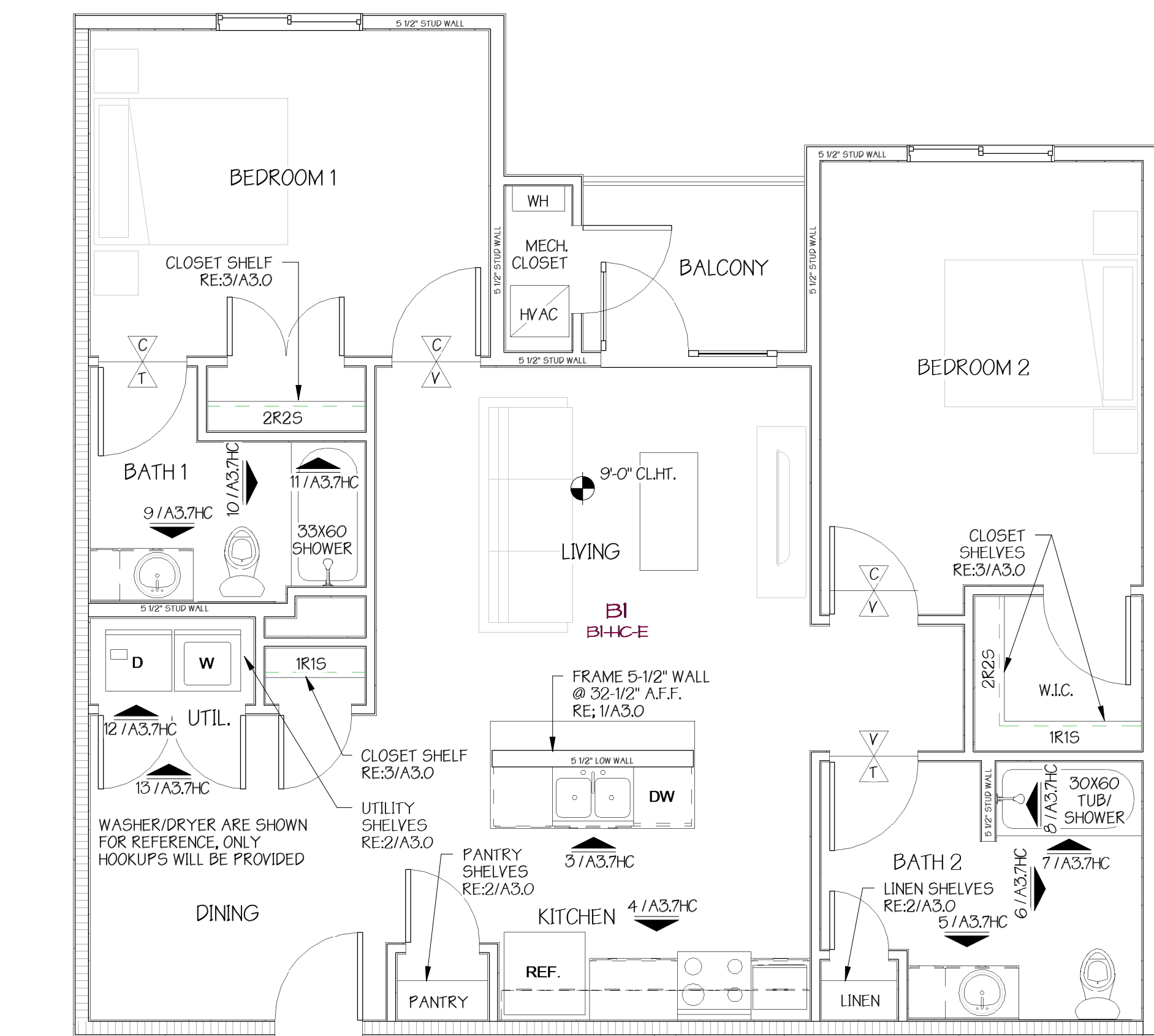
DWG NAME

DATE
05/07/19

DESCRIPTION
B1-ALT. UNITS

SHEET
A3.6A





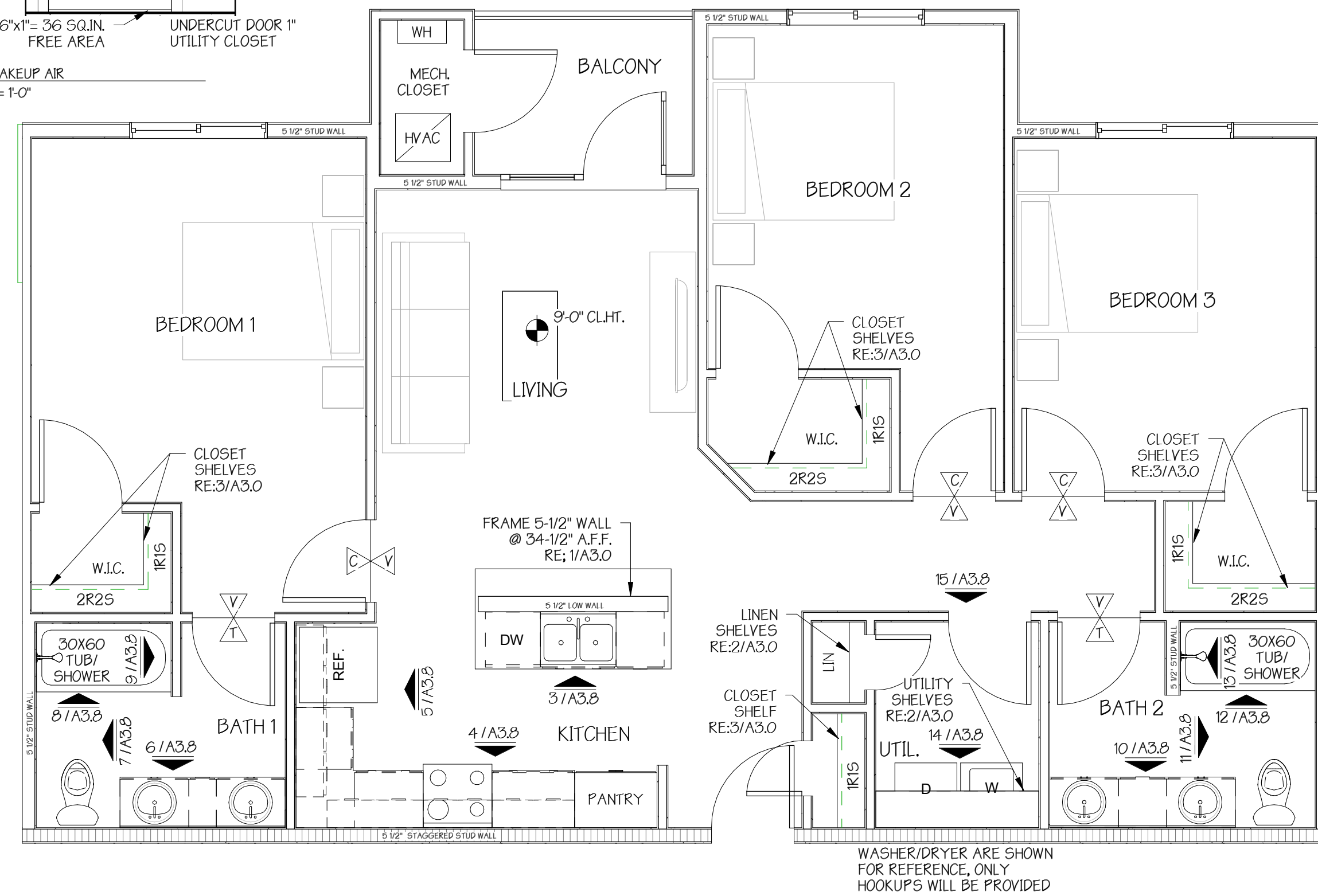
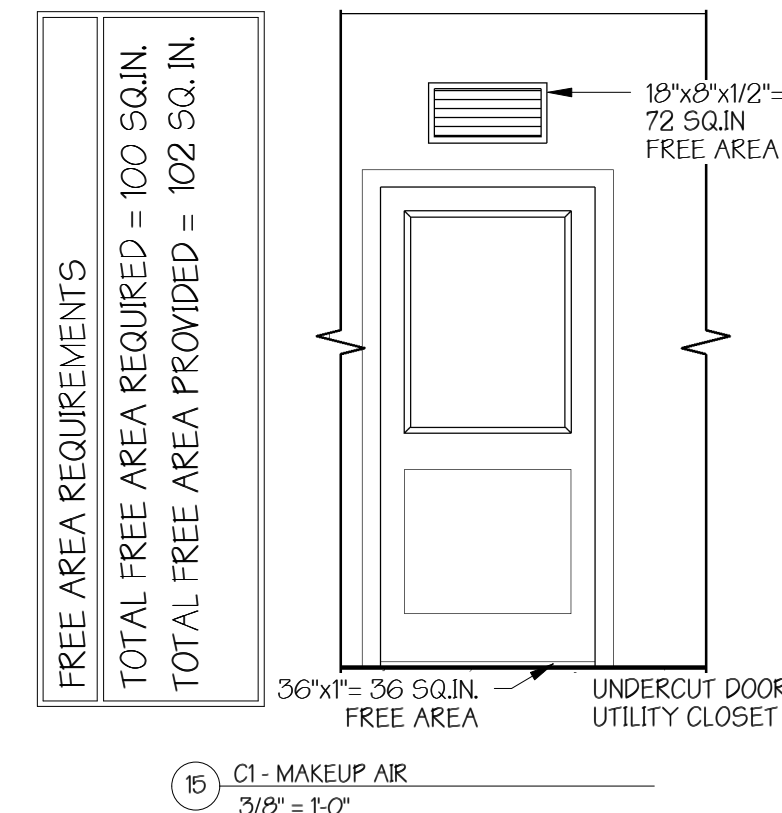
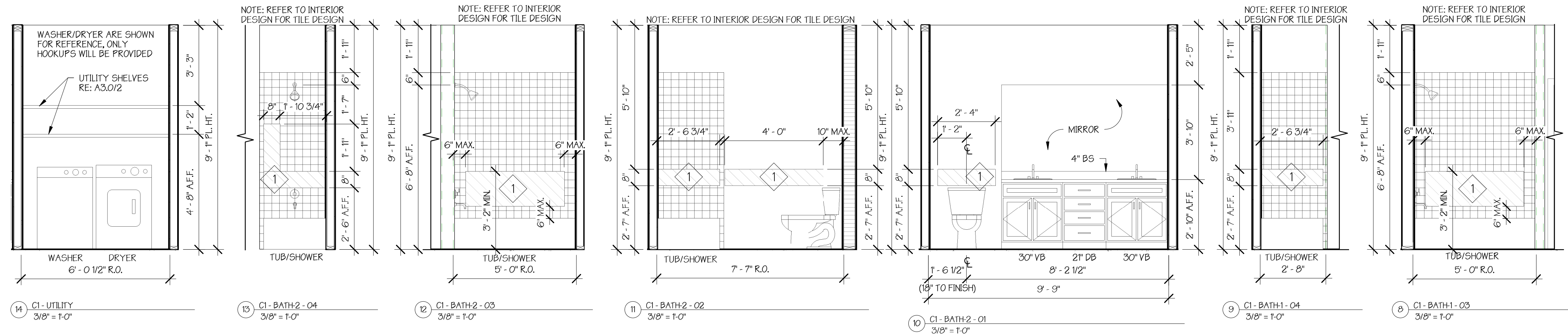
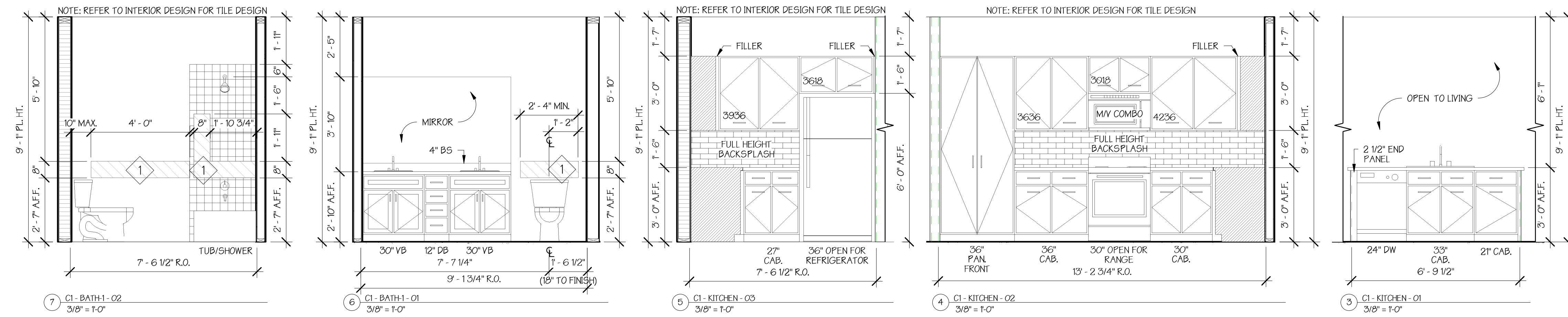
1 UNIT FLOORPLANS B1-HC-E
1/4" = 1'-0"



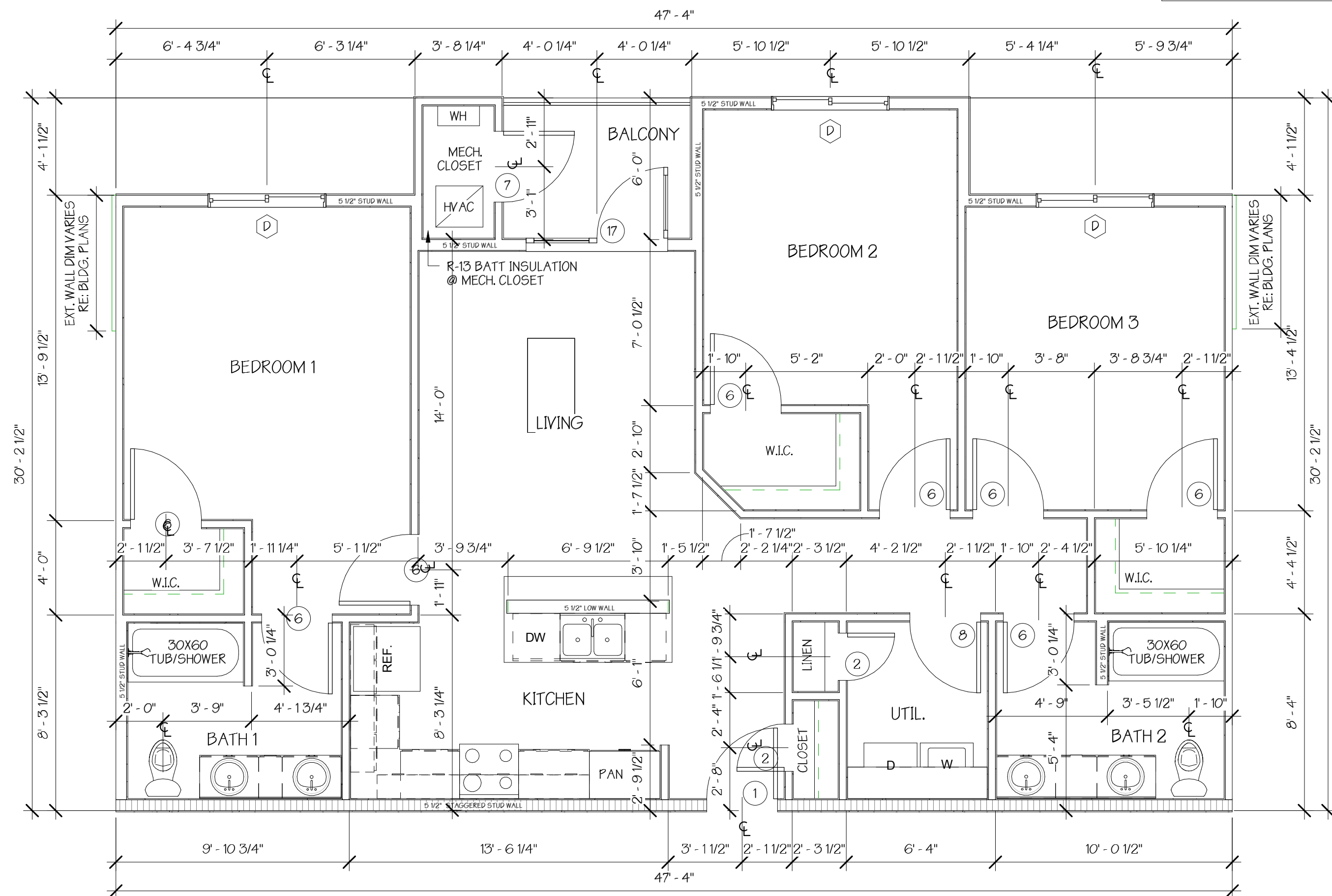
FLOOR FINISHES
V - VINYL
C - CARPET
T- TILE
NOTE* FIRE EXTINGUISHER LOCATED UNDER KITCHEN SINK

ROSSING RD, AUSTIN TX

A3.7HC



2 UNIT FURDOWN & INT. FINISH C1
1/4" = 1'-0"



1 UNIT FLOORPLANS C1
1/4" = 1'-0"

REFER TO SHEET A3.3 FOR ANSI ADAPTABLE UNIT CLEAR FLOOR AREAS AND # NOTES.

DESIGNATED TYPE B UNITS PER FHA & ICC/ANSI A117.1-2009 AT ALL FLOORS.

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REFER TO SHEET A3.1 FOR THE WINDOW AND DOOR SCHEDULE.

TYPE B ADAPTABLE UNITS PER FHA AND ICC/ANSI A117.1-2009 (SEE SHEETS A1.3, A1.3A, A1.6)

1 GRAB BAR INSTALLED @ REQUEST OF RESIDENT. PROVIDE SUFFICIENT ADDITIONAL BLOCKING AS PRE-SCRIBED IN ACCESSIBILITY GUIDE- LINES (RE: A1.3 & A1.3A FAIR HOUSING ACT UNITS)

2 REMOVABLE BASE CABINET TO CREATE ADDITIONAL KNEE SPACE BENEATH COUNTER. EXTEND FLOORING UNDER CABINET & FINISH ADJACENT WALL SURFACES /CABINETS AT TIME OF INITIAL CONSTRUCTION.

3 REMOVABLE VANITY BASE CABINET TO CREATE ADDITIONAL KNEE SPACE BENEATH COUNTER. EXTEND FLOORING UNDER CABINET & FINISH ADJACENT WALL SURFACES /CABINETS AT TIME OF INITIAL CONSTRUCTION.

FLOOR FINISHES

V - VINYL
C - CARPET
T - TILE

NOTE* FIRE EXTINGUISHER LOCATED UNDER KITCHEN SINK

DRAWN BY:
DPF, MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

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MOONLIGHT GARDEN

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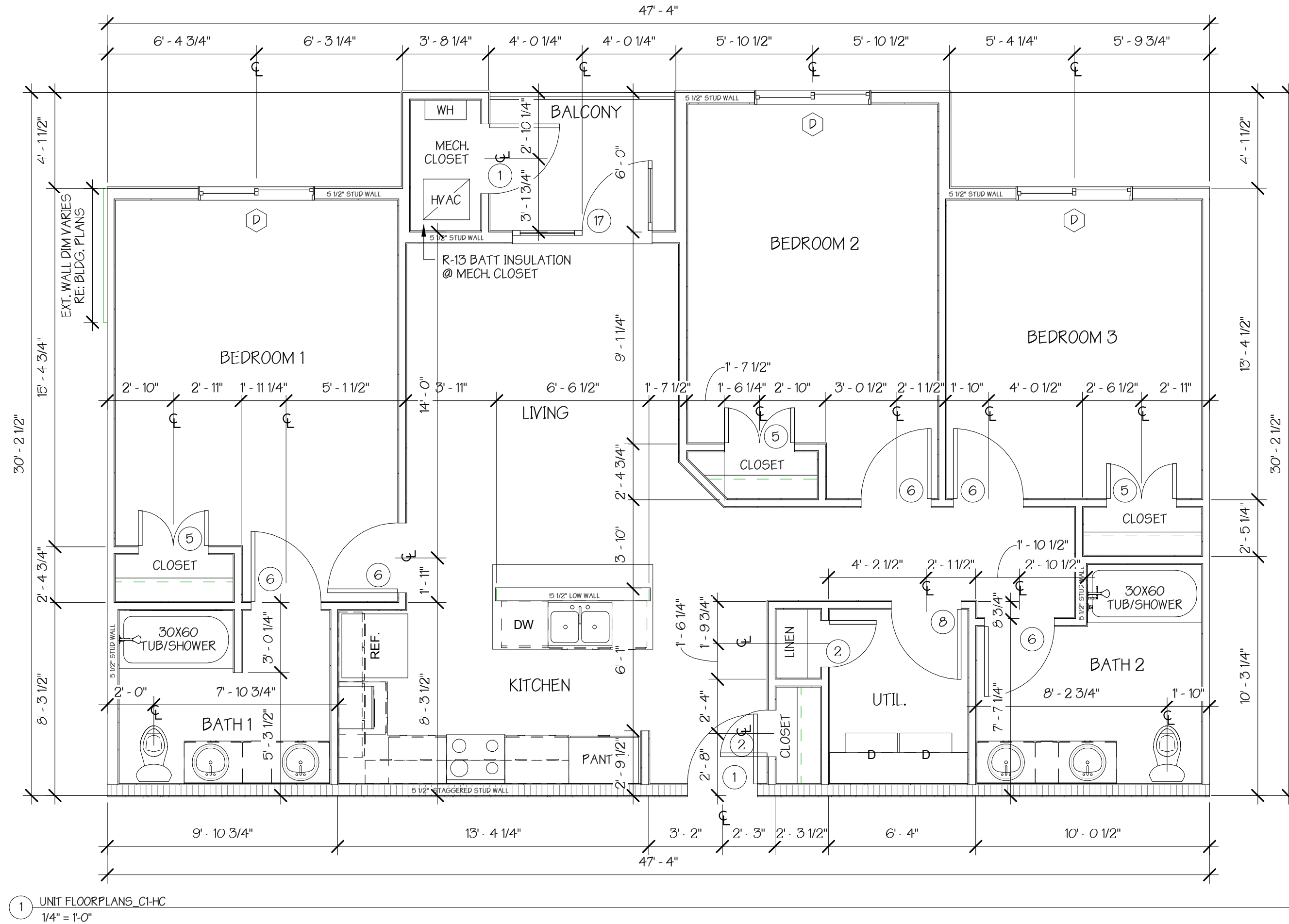
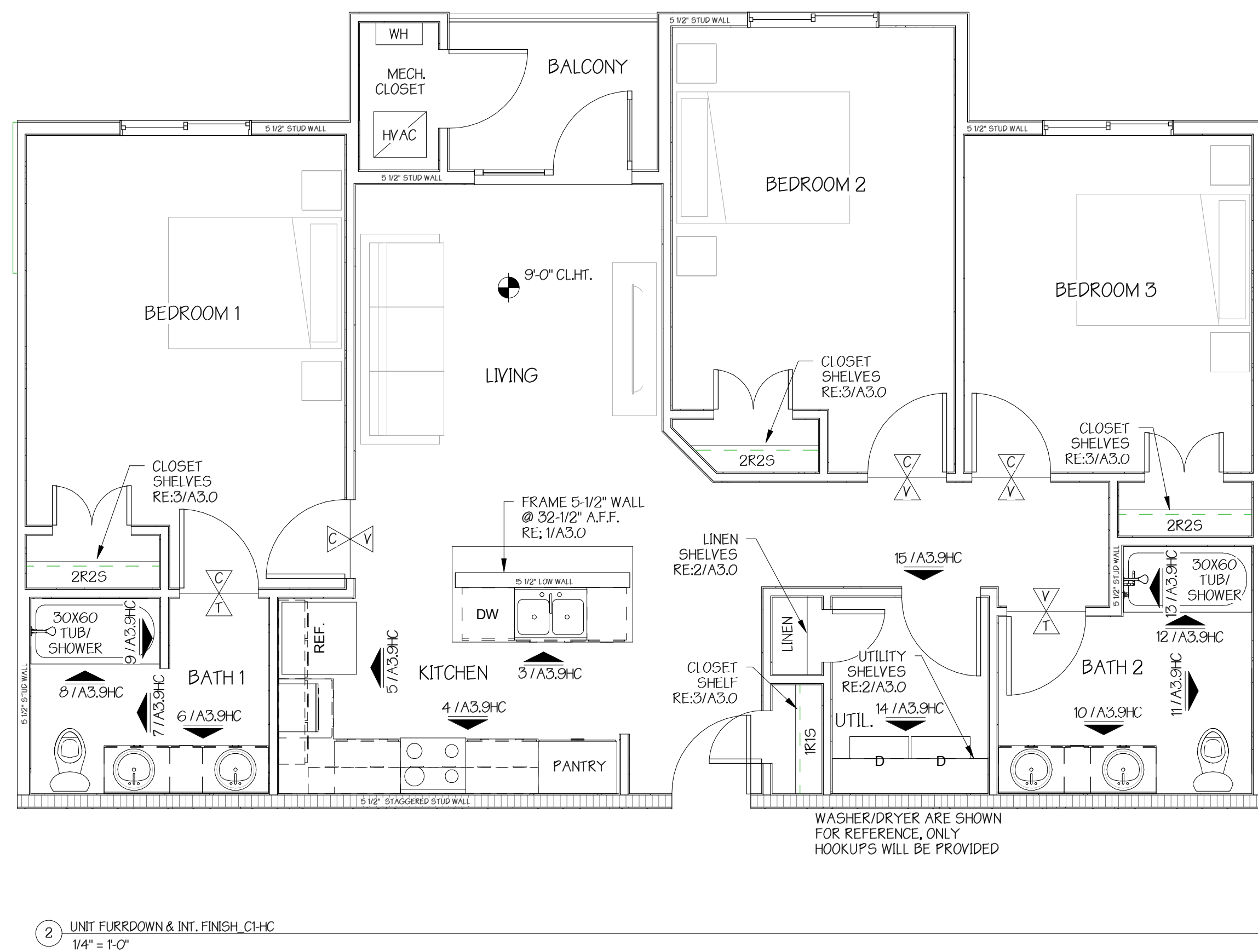
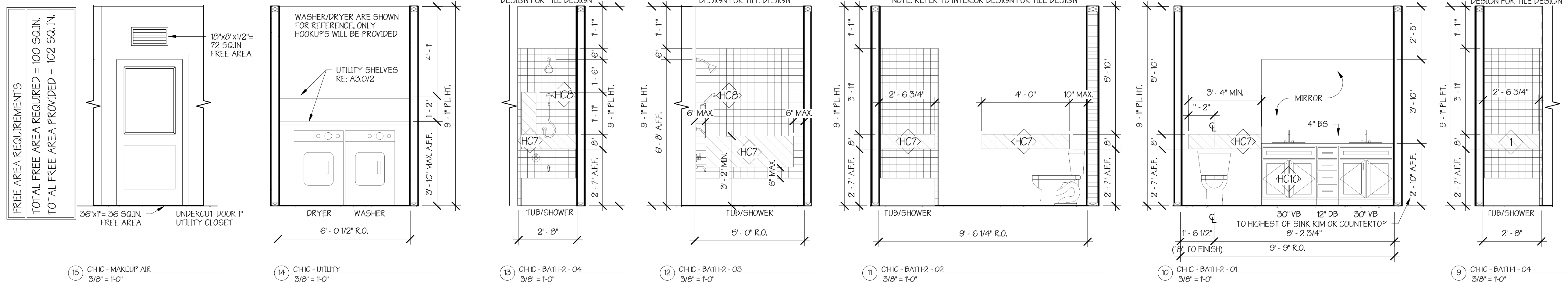
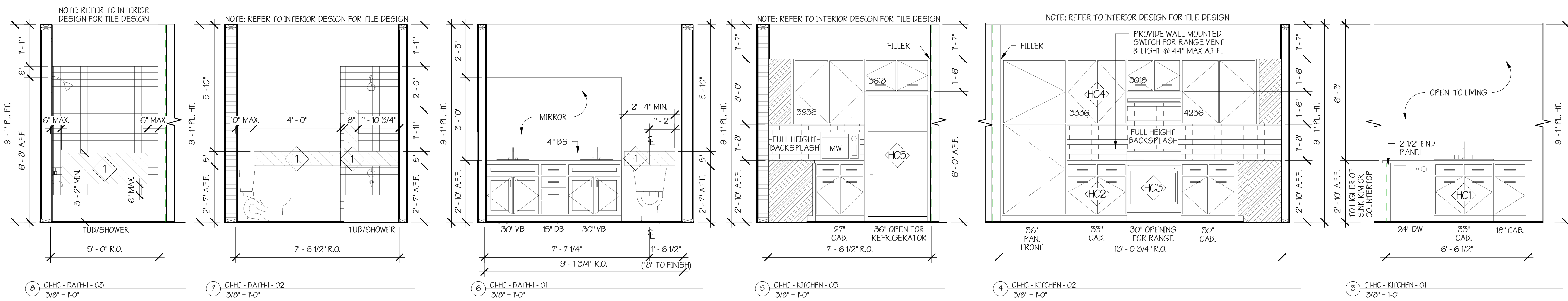
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05/07/19

DESCRIPTION
C1 UNIT

SHEET
A3.8



ADAPTABLE ELEMENTS FOR THE 5% ADA UNITS REQUIRED BY UFAS & THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

HC1	REMOVABLE SINK BASE CABINET IN KITCHEN W/WEAR DRAIN SINK. PROVIDE PANEL TO COVER PIPING, GARBAGE DISPOSAL, ETC., OR WRAP EXPOSED PIPING IF CABINET IS REMOVED. EXTEND FLOORING UNDER CABINET & FINISH ADJACENT WALL SURFACES /CABINETS AT TIME OF INITIAL CONSTRUCTION.
HC2	REMOVABLE BASE CABINET IN KITCHEN TO PROVIDE MIN. 30" WORK SPACE. FINISH ADJACENT WALL SURFACES/CABINETS AT TIME OF INITIAL CONSTRUCTION.
HC3	OVENS, RANGES, AND OTHER COOKING DEVICES SHALL HAVE UPFRONT CONTROLS.
HC4	DOOR PULLS OR HANDLES FOR WALL CABINETS SHALL BE MOUNTED AS CLOSE TO THE BOTTOM OF CABINET DOORS AS POSSIBLE. DOOR PULLS OR HANDLES FOR BASE CABINETS SHALL BE MOUNTED AS CLOSE TO THE TOP OF CABINET DOORS AS POSSIBLE.
HC5	REFRIGERATOR/FREEZERS MUST BE OF THE VERTICAL SIDE-BY-SIDE TYPE; OR OF THE VERTICAL OVER-AND-UNDER TYPE WITH AT LEAST 50% OF THE FREEZER SPACE BELOW 54" ABOVE THE FLOOR AND 100% OF THE REFRIGERATOR SPACE AND CONTROLS BELOW 54".
HC6	REMOVABLE SINK BASE CABINET IN BATHROOM. PROVIDE PANEL TO COVER PIPING, OR WRAP EXPOSED PIPING IF CABINET IS REMOVED. EXTEND FLOORING UNDER CABINET AND FINISH ADJACENT WALL SURFACES/CABINETS AT TIME OF INITIAL CONSTRUCTION.
HC7	GRAB BARS INSTALLED AT REQUEST OF FUTURE TENANT, BUT BLOCKING MUST BE PROVIDED AT TIME OF INITIAL CONSTRUCTION.
HC8	PROVIDE HANDHELD SHOWERHEAD WITH A NONPOSITIVE SHUT-OFF FEATURE & A 59" MINIMUM LENGTH HOSE THAT CAN ALSO BE USED AS A FIXED SHOWER HEAD. INSTALL AT TIME OF INITIAL CONSTRUCTION.
HC9	FOLDING SHOWER SEAT INSTALLED AT REQUEST OF FUTURE TENANT, BUT BLOCKING MUST BE PROVIDED AT TIME OF INITIAL CONSTRUCTION.
HC10	REMOVABLE BASE IN BATHROOM TO PROVIDE REQUIRED CLEAR FLOOR AREA FOR WATER CLOSET OR BATHTUB. PROVIDE WALL MOUNTED END PANEL TO SUPPORT COUNTERTOP. FINISH ADJACENT WALL SURFACES/CABINETS AT TIME OF INITIAL CONSTRUCTION.
HC11	DISHWASHER SHOULD BE ADA COMPLAINT AND ABLE TO FIT UNDER 2'-0" COUNTER.
HC12	ADA COMPLAINT REMOVABLE BATHTUB SEAT TO BE INSTALLED AT TIME OF INITIAL CONSTRUCTION. TOP OF SEAT TO BE 17"-19" A.F.F., 15"-16" IN DEPTH, & CAPABLE OF SECURE PLACEMENT.
SEE SHEETS	FOR FURTHER INFORMATION

SITES, BUILDINGS, STRUCTURES, FACILITIES, ELEMENTS AND SPACES, TEMPORARY OR PERMANENT, SHALL BE ACCESSIBLE TO PERSONS WITH PHYSICAL DISABILITIES PER IBC 1103.1

REFER TO SHEET A32 FOR ANSI ADAPTABLE UNIT CLEAR FLOOR AREAS AND # NOTES.

DESIGNATED TYPE B UNITS PER FHA & ICC/ANSI A117.1-2009 AT ALL FLOORS.

GRAB BARS INSTALLED AT REQUEST OF FUTURE TENANT BUT BLOCKING MUST BE PROVIDED AT TIME OF INITIAL CONSTRUCTION

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REFER TO SHEET A3.0 & A3.0A FOR ALL TYPICAL UNIT DETAILS.

REFER TO SHEET A3.1 FOR THE WINDOW AND DOOR SCHEDULE.

FLOOR FINISHES	
V - VINYL	
C - CARPET	
T - TILE	
NOTE* FIRE EXTINGUISHER LOCATED UNDER KITCHEN SINK	

DRAWN BY: DPF, MAR
CHECKED BY: JMK
PROJECT #: 18-2325

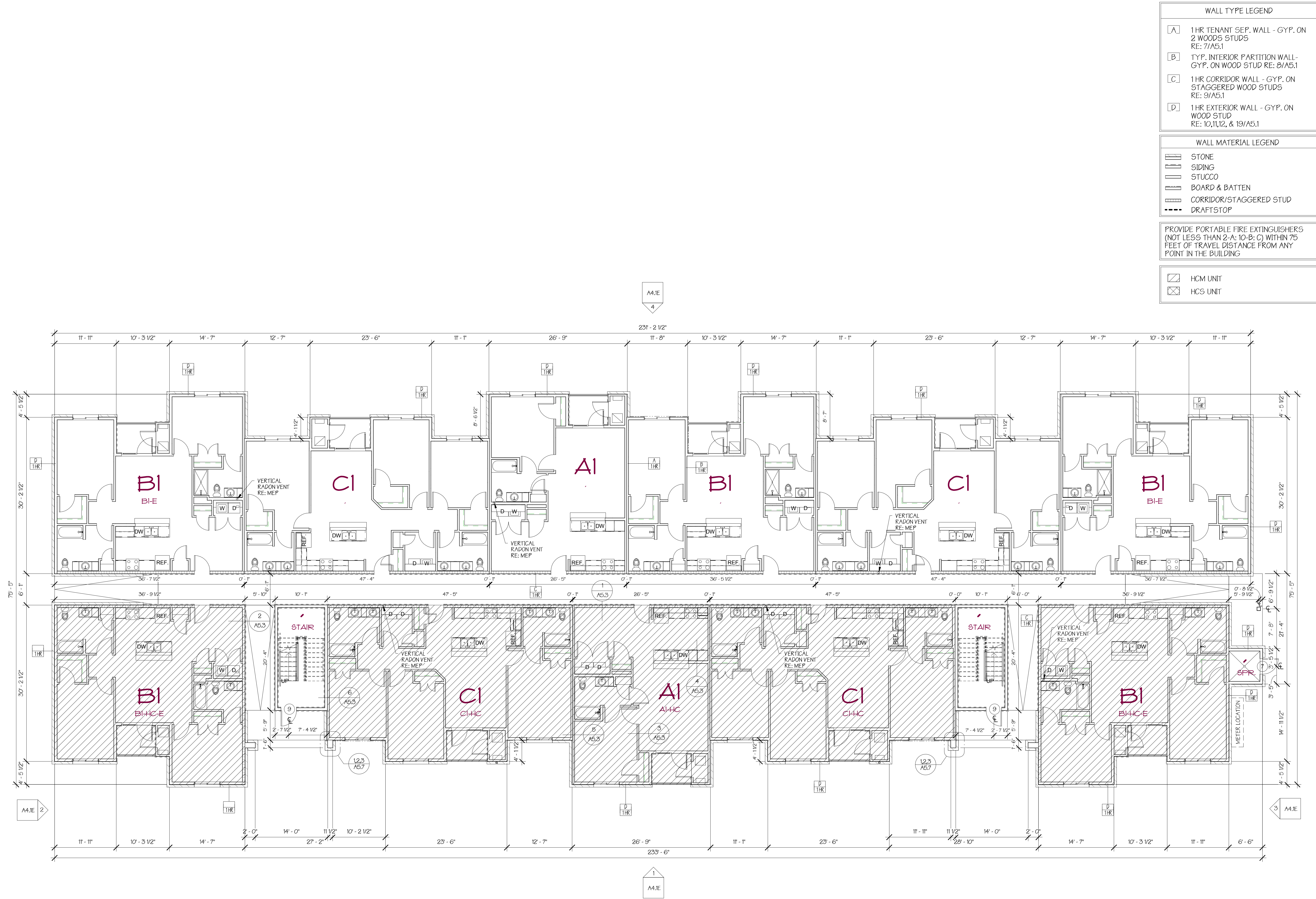
REGISTERED ARCHITECT
STATE OF TEXAS
05/23/19
EXP: 11/30/19

LDG DEVELOPEMENT
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502.609.4940

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MOONLIGHT GARDEN
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05/07/19		
DESCRIPTION		
C1-HC UNIT		
SHEET		
A3.9HC		



WALL TYPE LEGEND

- A 1 HR TENANT SEP. WALL - GYP. ON 2 WOODS STUDS RE: 7/A5.1
- B TYP. INTERIOR PARTITION WALL - GYP. ON WOOD STUD RE: 8/A5.1
- C 1 HR CORRIDOR WALL - GYP. ON STAGGERED WOOD STUDS RE: 9/A5.1
- D 1 HR EXTERIOR WALL - GYP. ON WOOD STUD RE: 10,11,12, & 19/A5.1

WALL MATERIAL LEGEND

- STONE
- SIDING
- STUCCO
- BOARD & BATTEN
- CORRIDOR/STAGGERED STUD
- DRAFTSTOP

PROVIDE PORTABLE FIRE EXTINGUISHERS (NOT LESS THAN 2-A: 10-B: C) WITHIN 75 FEET OF TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING

HCM UNIT

HCS UNIT

DRAWN BY: DPF, MAR

CHECKED BY: JMK

PROJECT #: 18-2325

REGISTERED ARCHITECT

STATE OF TEXAS

05/23/19

EXP: 11/30/19

LDG DEVELOPEMENT

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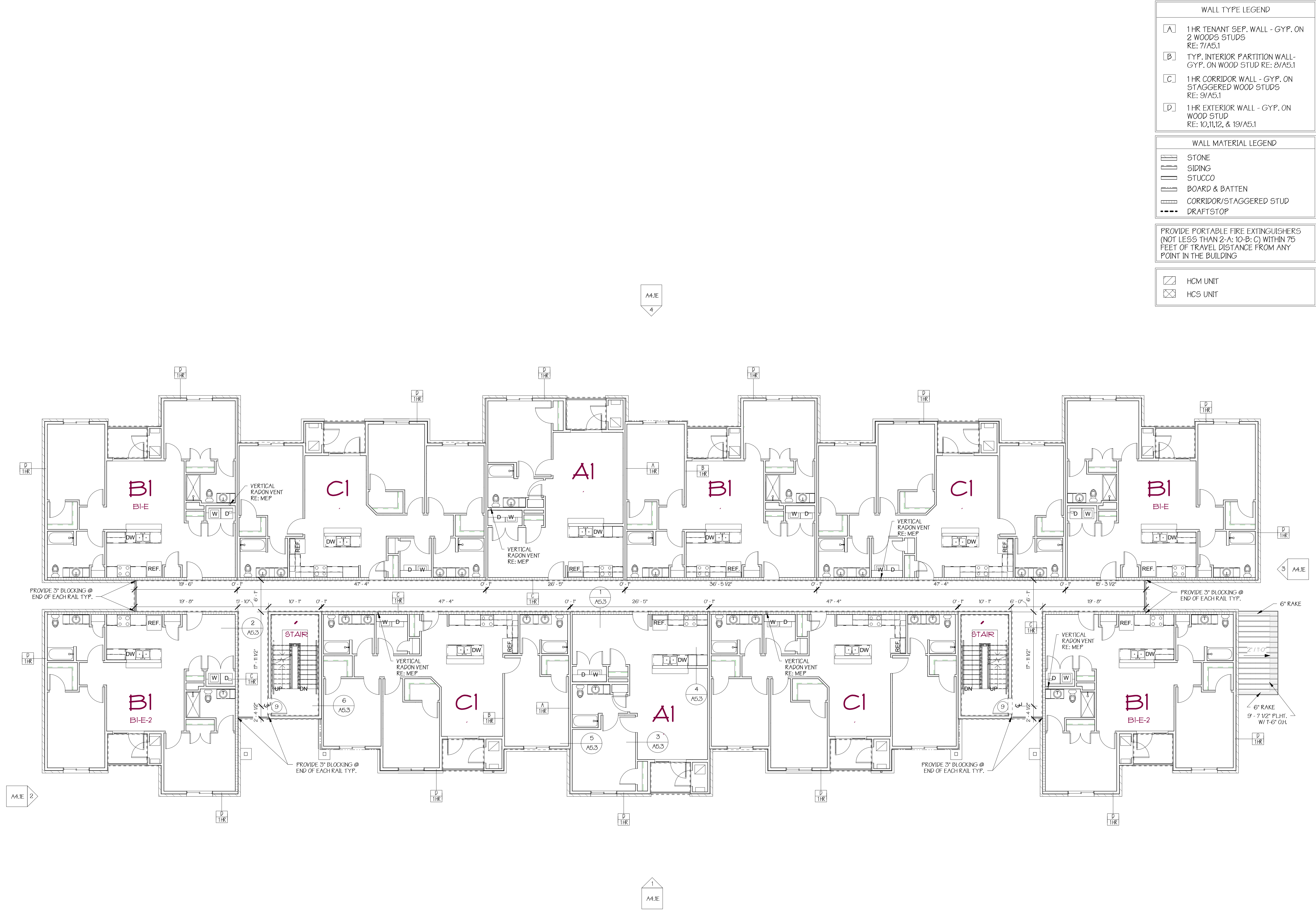
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DWG NAME

DATE 01/10/19

DESCRIPTION BLDG. TYPE I - LEVEL 1 FLOOR PLAN

SHEET A4.1A



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DPF,
MAR

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JMK

PROJECT #:
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EXP: 11/30/19

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KELLY GROSSMAN

REGISTERED ARCHITECT

STATE OF TEXAS

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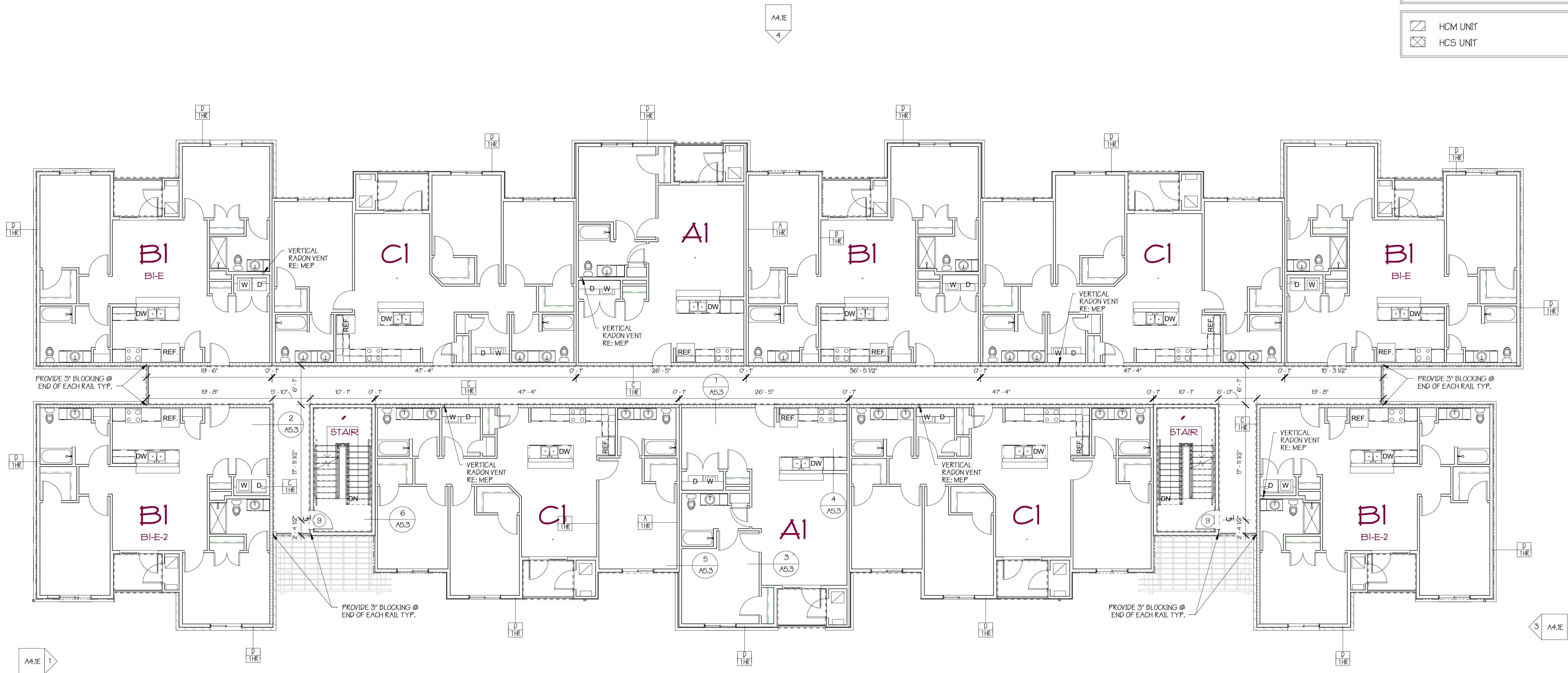
01/10/19

DESCRIPTION

BLDG. TYPE 1 - LEVEL 2 FLOOR PLAN

SHEET

A4.1B



WALL TYPE LEGEND

- A 1 HR TENANT SEP. WALL - GYP. ON 2 WOODS STUDS RE: 7/A5.1
- B TYP. INTERIOR PARTITION WALL- GYP. ON WOOD STUD RE: 8/A5.1
- C 1 HR CORRIDOR WALL - GYP. ON STAGGERED WOOD STUDS RE: 9/A5.1
- D 1 HR EXTERIOR WALL - GYP. ON WOOD STUD RE: 10,11,12, & 19/A5.1

WALL MATERIAL LEGEND

- STONE
- SIDING
- STUCCO
- BOARD & BATTEN
- CORRIDOR/STAGGERED STUD
- DRAFTSTOP

PROVIDE PORTABLE FIRE EXTINGUISHERS (NOT LESS THAN 2-A: 10-B: C) WITHIN 75 FEET OF TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING

HCM UNIT

HCS UNIT

DRAWN BY: DPF, MAR

CHECKED BY: JMK

PROJECT #: 18-2325

LDG DEVELOPEMENT

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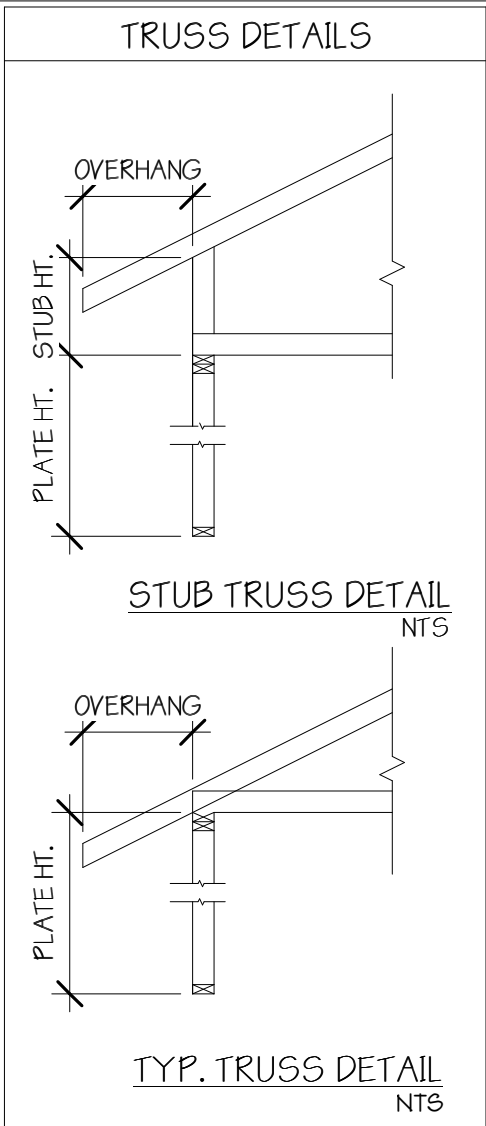
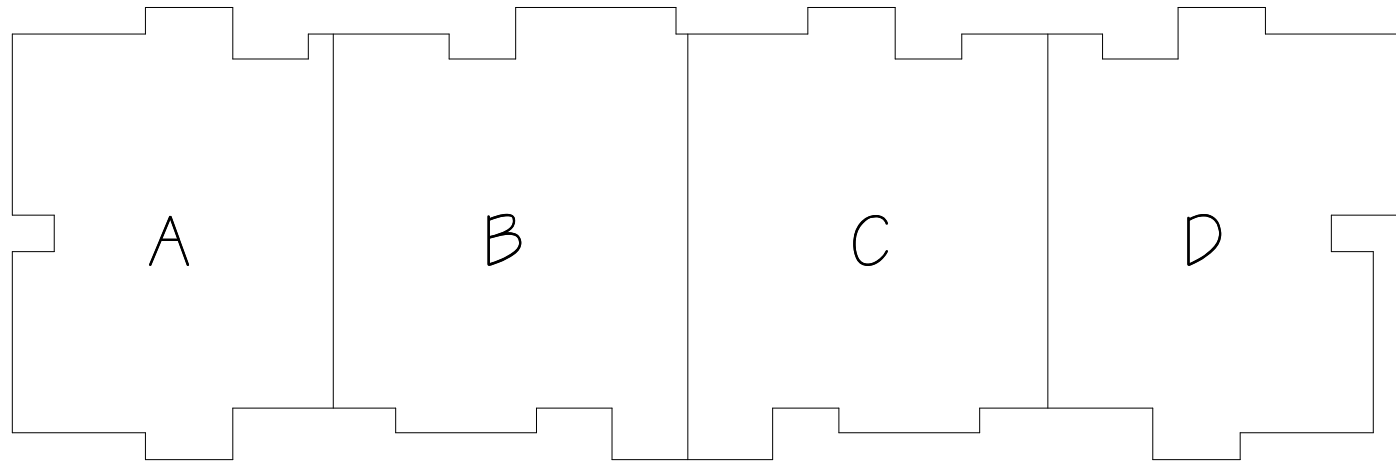
DATE 01/10/19

DESCRIPTION BLDG. TYPE I - LEVEL 3 FLOOR PLAN

SHEET A4.1C

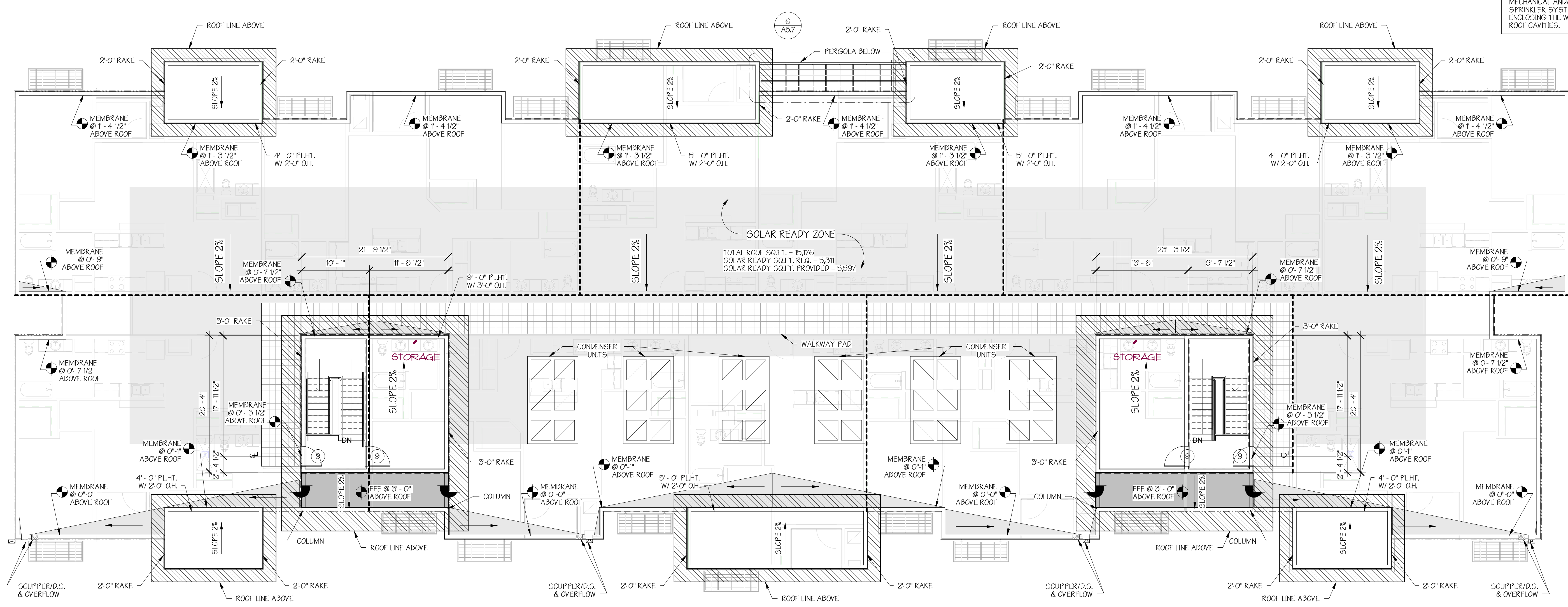
1 BLDG. TYPE I LEVEL 3
1/8" = 1'-0"

ROOF DRAINAGE CALCULATIONS						
BLDG AREA	AREA (SQ.FT.)	REQUIRED DRAINAGE OPENING SIZE	DRAINAGE OPENINGS PROVIDED		DOWNSPOUT DIMENSIONS	SCUPPER DIMENSIONS
			QTY. & SIZE			
A	3526	5 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"
B	3957	5 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"
C	3981	5 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"
D	3701	5 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"



DRY IN NOTE

THE ENTIRE BUILDING ENVELOPE (INCLUDING ROOF, WALLS & FLOORS) TO BE DRIED IN PRIOR TO THE STORAGE AND INSTALLATION OF INTERIOR FINISH MATERIALS, (INCLUDING GYPSUM WALL BOARD AND INSULATION). IN ADDITION, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THERE HAS BEEN NO EVIDENCE OF WATER PENETRATING THE BUILDING ENVELOPE OR WATER LEAK(S), FROM MECHANICAL AND/OR FIRE SPRINKLER SYSTEMS PRIOR TO ENCLOSING THE WALL, CEILING, OR ROOF CAVITIES.

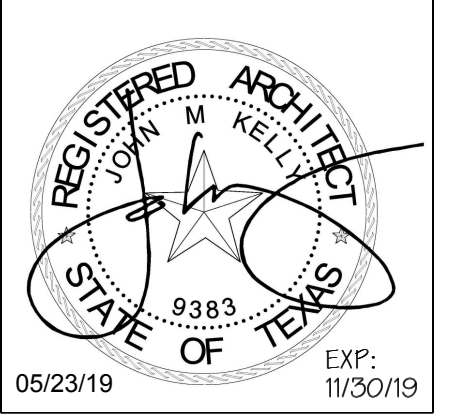


1 BLDG. TYPE I LEVEL ROOF
1/8" = 1'-0"

DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325



LDG DEVELOPEMENT

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REGISTERED ARCHITECT
STATE OF TEXAS
NO. 9383
EXPIRATION DATE 11/30/19
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www.kellygrossman.com

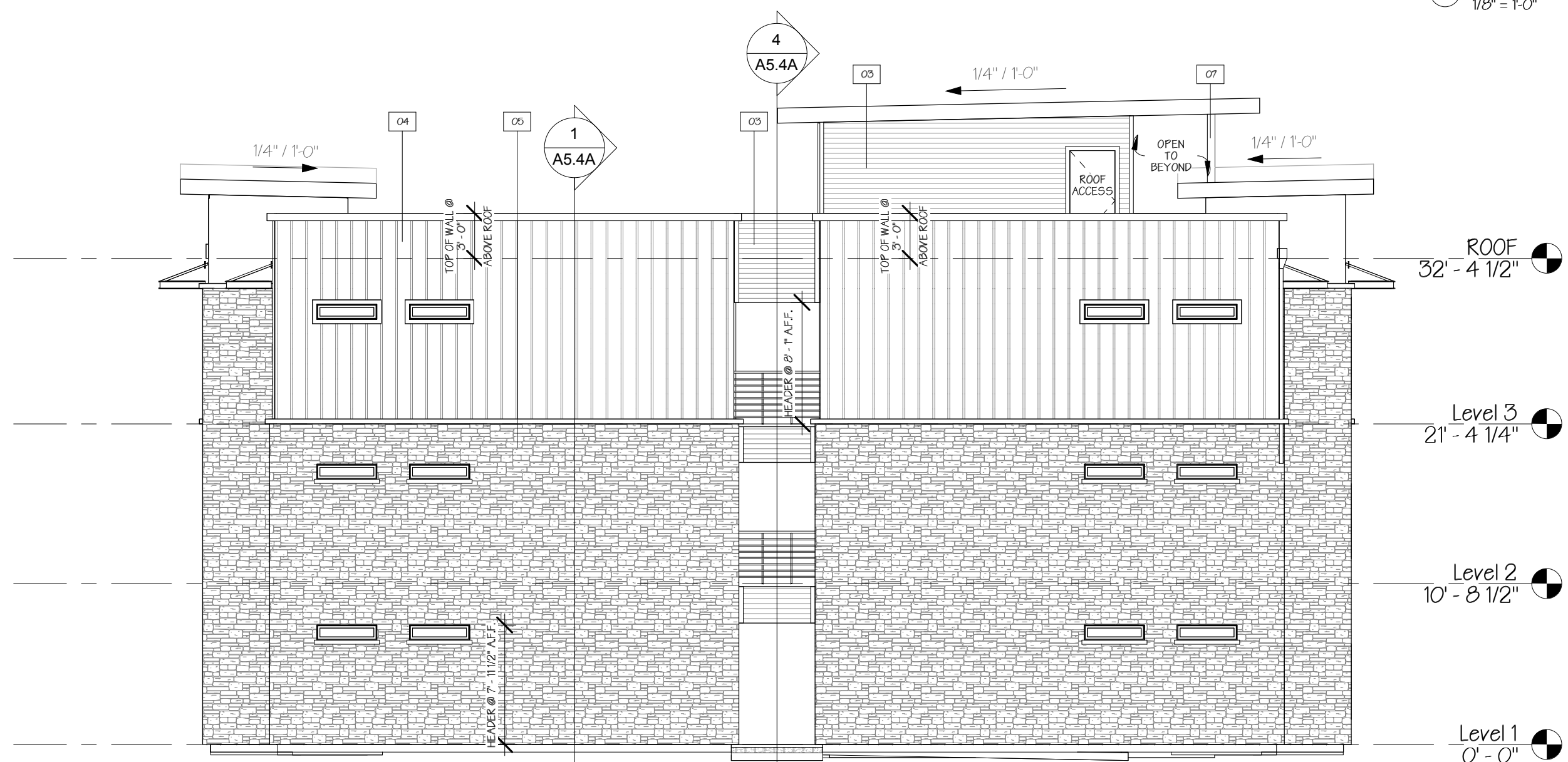
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MOONLIGHT GARDEN
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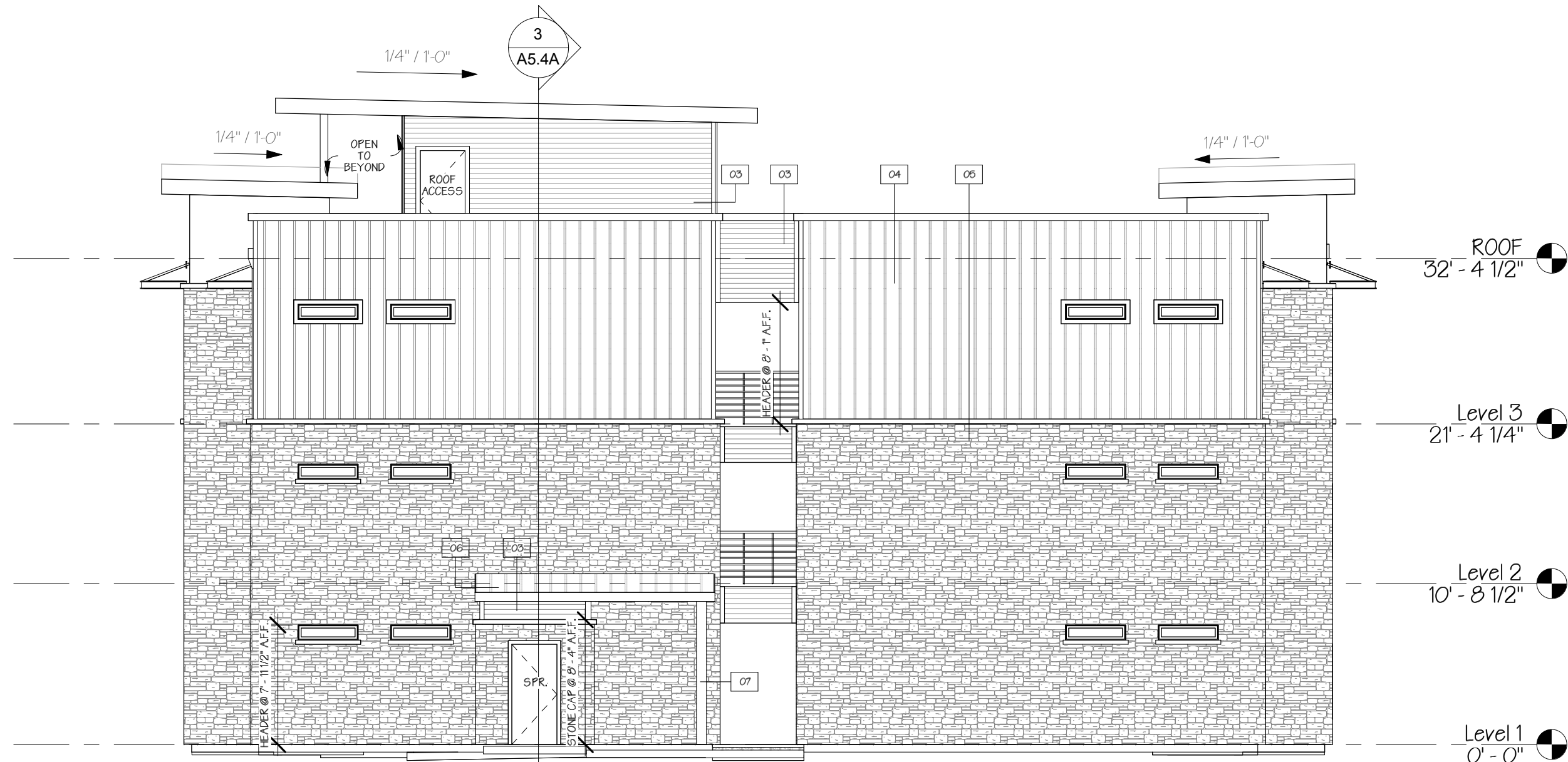
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DWG NAME		
DATE		
01/10/19		
DESCRIPTION		
BLDG. TYPE I - ROOF PLAN		
SHEET		
A4.1D		



1 TYPE I - FRONT ELEVATION
1/8" = 1'-0"



2 TYPE I - LEFT ELEVATION
1/8" = 1'-0"

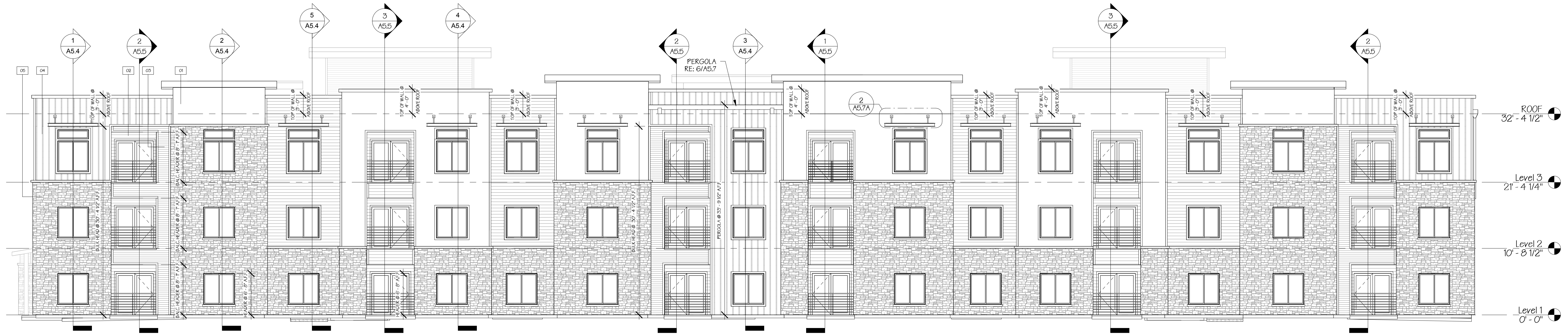


3 TYPE I - RIGHT ELEVATION
1/8" = 1'-0"

MATERIAL PATTERN LEGEND

- 01 STUCCO (COLOR 1)
- 02 LAP SIDING 1 (8" EXP.)
- 03 LAP SIDING 2 (6" EXP.)
- 04 B&B SIDING
- 05 STONE
- 06 STANDING SEAM ROOF
- 07 COLUMN

ADDRESS NUMBERS AT LEAST 8" HIGH MUST BE VISIBLE FROM THE STREET



4 TYPE I - REAR ELEVATION
1/8" = 1'-0"

DRAWN BY: DPF, MAR
CHECKED BY: JMK
PROJECT #: 18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
05/23/19
EXP: 11/30/19

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No.	Revision	Date

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ISSUED FOR BID

ISSUED FOR CONSTRUCTION

DWG NAME

DATE
01/10/19

DESCRIPTION
BLDG. TYPE I - EXTERIOR ELEVATIONS

SHEET
A4.1E



1 BLDG. TYPE I FRONT PERSPECTIVE



2 BLDG. TYPE I REAR PERSPECTIVE

DRAWN BY:
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MAR

CHECKED BY:
JMK

PROJECT #:
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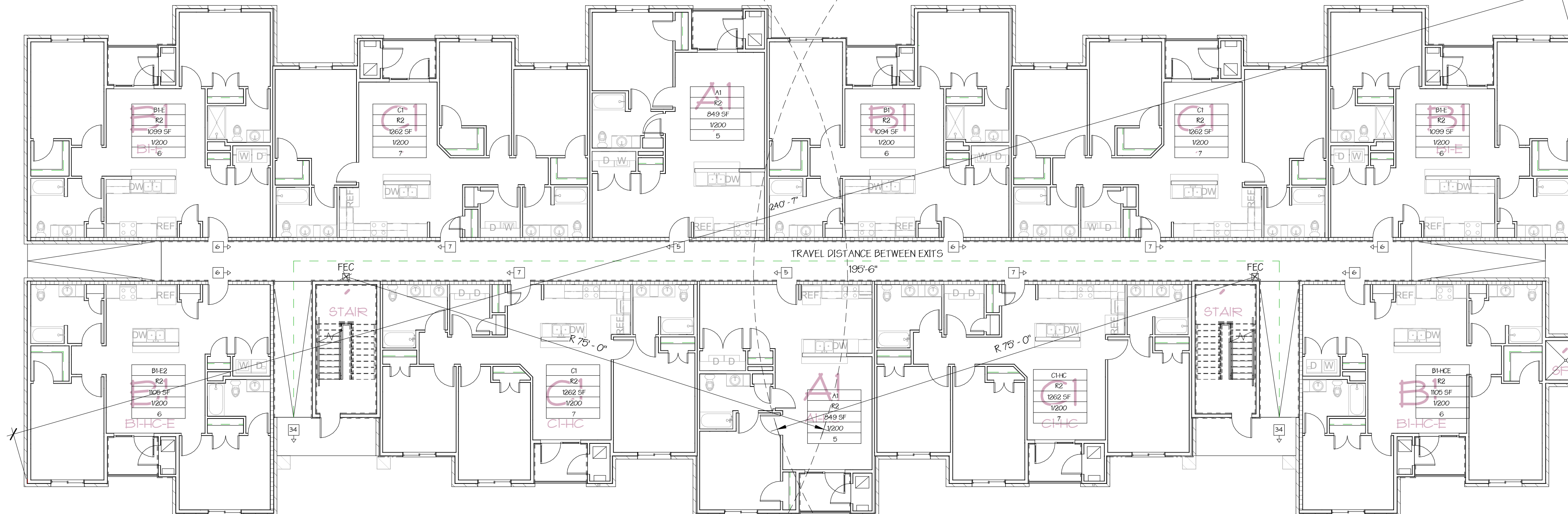
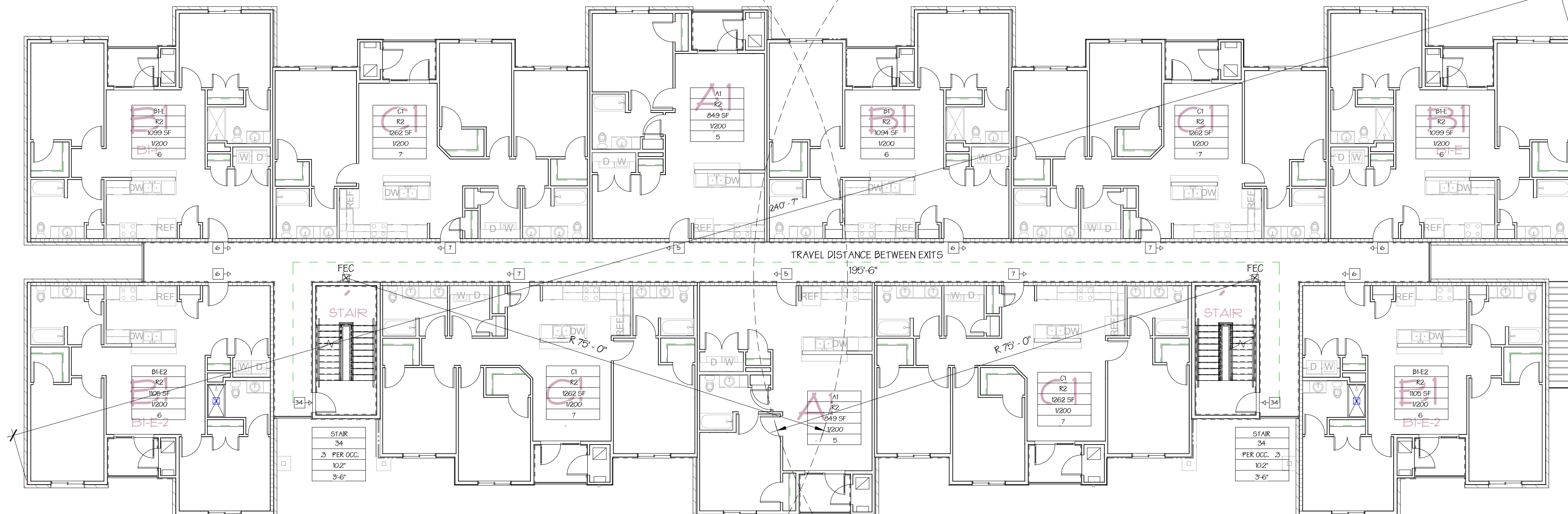
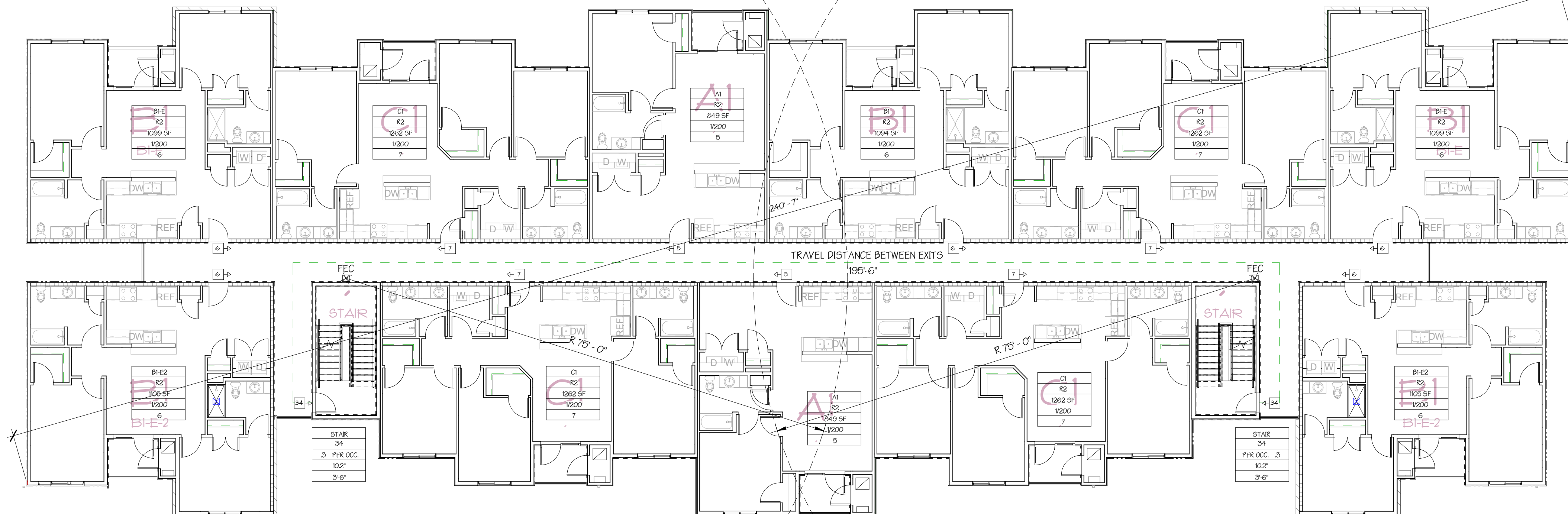
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DWG NAME

DATE
01/10/19

DESCRIPTION
BLDG. TYPE I -
PERSPECTIVES

SHEET
A4.1F



PROVIDE PORTABLE FIRE EXTINGUISHERS W/IN 75 FT. OF TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING

PROVIDE STAIRWAY IDENTIFICATION AT EACH FLOOR LEVEL IN ALL ENCLOSED STAIRWAYS

LIFE SAFETY LEGEND

X	UNIT NAME
X	SQ. FT.
X	USE GROUP
X	OCC. PER SQ. FT.
X	OCCUPANT LOAD
X	STAIR NAME
X	OCCUPANT LOAD
X	MULTIPLIER
X	REQ. WIDTH
X	ACTUAL WIDTH
X	OCCUPANCY & EGRESS DIRECTION
X	FIRE EXTINGUISHER

EXIT SEPARATION REQUIREMENTS	
AREA SERVED	240' - 7"
1/2 DIAGONAL	120' - 3 1/2"
EXIT SEPARATION PROVIDED	195' - 6"

3 BLDG. TYPE I LEVEL 3 LIFE SAFETY 3/32" = 1'-0"

2 BLDG. TYPE I LEVEL 2 LIFE SAFETY 3/32" = 1'-0"

1 BLDG. TYPE I LEVEL 1 LIFE SAFETY 3/32" = 1'-0"

DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

LDG DEVELOPEMENT

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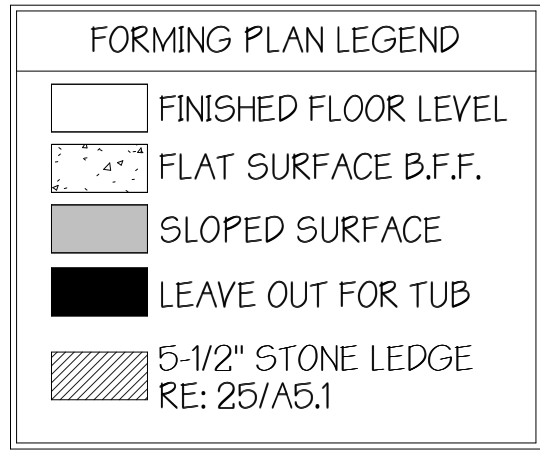
ISSUED FOR CONSTRUCTION

DWG NAME

DATE
01/10/19

DESCRIPTION
BLDG. TYPE I - LIFE SAFETY PLAN

SHEET
A4.1G

DPF,
MAR

JMK

18-2325



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40208,
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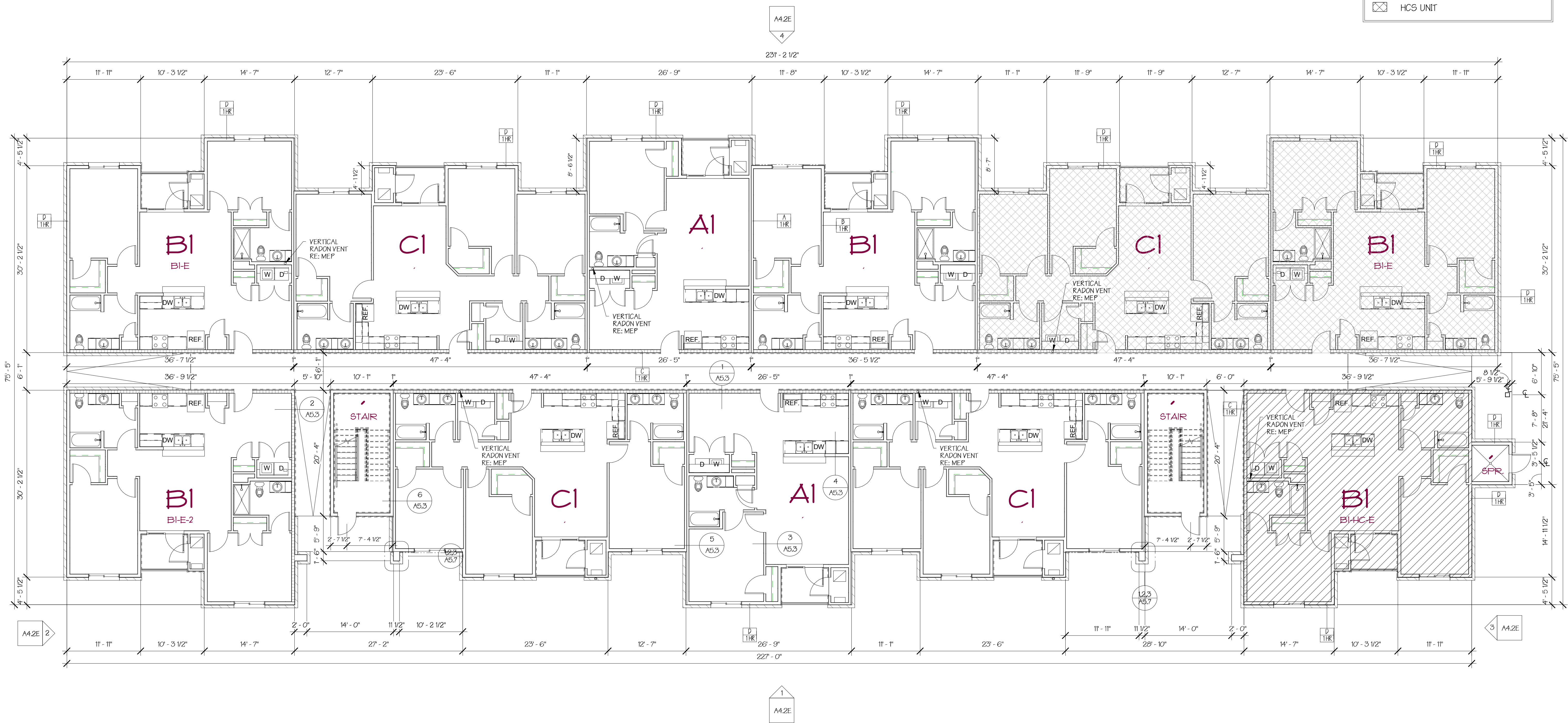
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MOONLIGHT GARDEN

8901 NUCKOLS CROSSING RD, AUSTIN TX
78747

A4.2



WALL TYPE LEGEND

- A 1 HR TENANT SEP. WALL - GYP. ON 2 WOODS STUDS RE: 7/A5.1
- B TYP. INTERIOR PARTITION WALL - GYP. ON WOOD STUD RE: 8/A5.1
- C 1 HR CORRIDOR WALL - GYP. ON STAGGERED WOOD STUDS RE: 9/A5.1
- D 1 HR EXTERIOR WALL - GYP. ON WOOD STUD RE: 10,11,12, & 19/A5.1

WALL MATERIAL LEGEND

- STONE
- SIDING
- STUCCO
- BOARD & BATTEN
- CORRIDOR/STAGGERED STUD
- DRAFTSTOP

PROVIDE PORTABLE FIRE EXTINGUISHERS (NOT LESS THAN 2-A: 10-B: C) WITHIN 75 FEET OF TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING

HCM UNIT

HCS UNIT

DRAWN BY: DPF, MAR

CHECKED BY: JMK

PROJECT #: 18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
05/23/19
EXP: 11/30/19

LDG DEVELOPEMENT

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ISSUED FOR PERMIT 06-10-2019

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DWG NAME

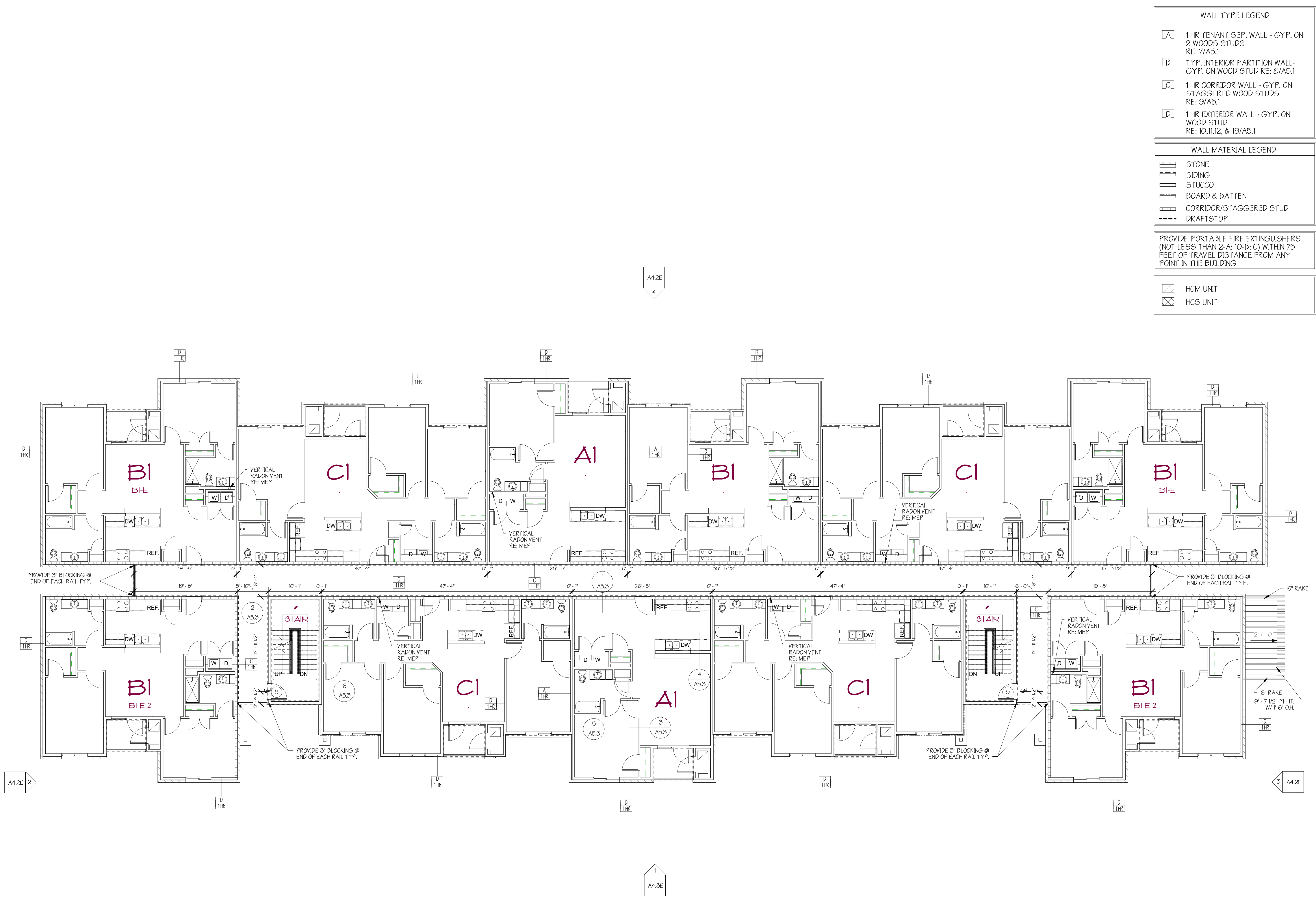
DATE 05/24/19

DESCRIPTION BLDG. TYPE II - LEVEL 1 FLOOR PLAN

SHEET A4.2A

1 BLDG. TYPE II - LEVEL 1
1/8" = 1'-0"

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1 BLDG. TYPE II LEVEL 2
1/8" = 1'-0"

WALL TYPE LEGEND

- A 1 HR TENANT SEP. WALL - GYP. ON 2 WOODS STUDS RE: 7/A5.1
- B TYP. INTERIOR PARTITION WALL- GYP. ON WOOD STUD RE: 8/A5.1
- C 1 HR CORRIDOR WALL - GYP. ON STAGGERED WOOD STUDS RE: 9/A5.1
- D 1 HR EXTERIOR WALL - GYP. ON WOOD STUD RE: 10,11,12, & 19/A5.1

WALL MATERIAL LEGEND

- STONE
- SIDING
- STUCCO
- BOARD & BATTEN
- CORRIDOR/STAGGERED STUD
- DRAFTSTOP

PROVIDE PORTABLE FIRE EXTINGUISHERS (NOT LESS THAN 2-A; 10-B; C) WITHIN 75 FEET OF TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING

HCM UNIT

HCS UNIT

DRAWN BY: DPF, MAR

CHECKED BY: JMK

PROJECT #: 18-2325

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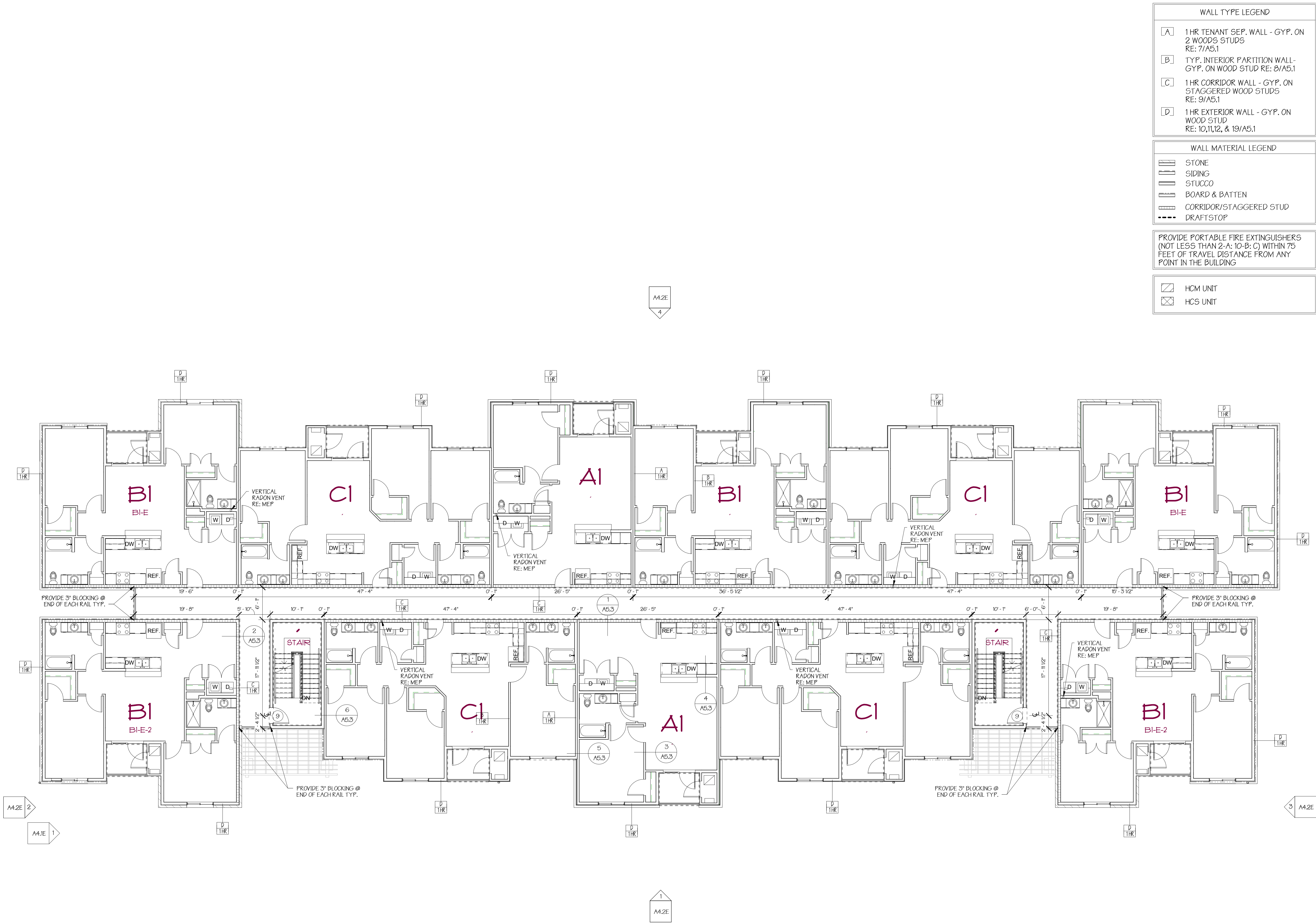
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DWG NAME

DATE
05/24/19

DESCRIPTION
BLDG. TYPE II - LEVEL 2
FLOOR PLAN

SHEET
A4.2B



WALL TYPE LEGEND

- A 1 HR TENANT SEP. WALL - GYP. ON 2 WOODS STUDS RE: 7/A5.1
- B TYP. INTERIOR PARTITION WALL - GYP. ON WOOD STUD RE: 8/A5.1
- C 1 HR CORRIDOR WALL - GYP. ON STAGGERED WOOD STUDS RE: 9/A5.1
- D 1 HR EXTERIOR WALL - GYP. ON WOOD STUD RE: 10,11,12, & 19/A5.1

WALL MATERIAL LEGEND

- STONE
- SIDING
- STUCCO
- BOARD & BATTEN
- CORRIDOR/STAGGERED STUD
- DRAFTSTOP

PROVIDE PORTABLE FIRE EXTINGUISHERS (NOT LESS THAN 2-A: 10-B: C) WITHIN 75 FEET OF TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING

- HCM UNIT
- HCS UNIT

DRAWN BY: DPF, MAR

CHECKED BY: JMK

PROJECT #: 18-2325

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STATE OF TEXAS
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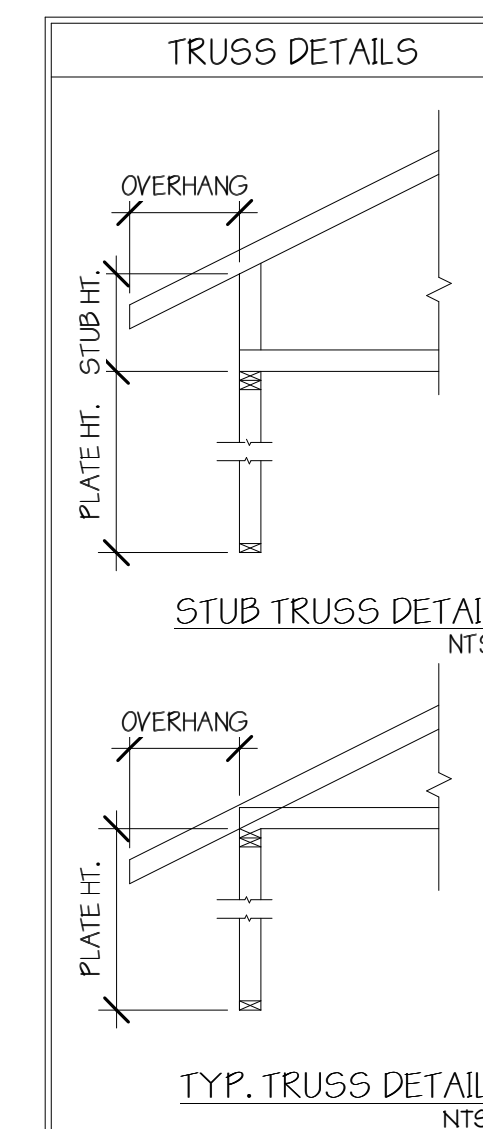
DATE 05/24/19

DESCRIPTION BLDG. TYPE II - LEVEL 3 FLOOR PLAN

SHEET A4.2C

1 BLDG. TYPE II, LEVEL 3
1/8" = 1'-0"

ROOF DRAINAGE CALCULATIONS						
BLDG AREA	AREA (SQ. FT.)	REQUIRED DRAINAGE OPENING SIZE	DRAINAGE OPENINGS PROVIDED		DOWNSPOUT DIMENSIONS	SCUPPER DIMENSIONS
			QTY. & SIZE			
A	3526	5 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"
B	3957	5 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"
C	3981	5 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"
D	3701	5 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"

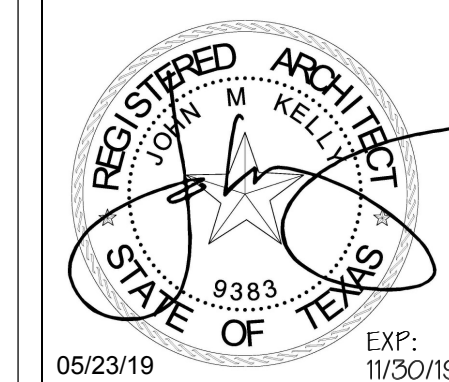


SOFFIT LEGEND	
DRAFTSTOP	---
SOFFIT	
ROOF CRICKET	
SOLAR READY ZONE	
WALKWAY PAD	

DRY IN NOTE

THE ENTIRE BUILDING ENVELOPE (INCLUDING ROOF, WALLS & FLOORS) TO BE DRIED IN PRIOR TO THE STORAGE AND INSTALLATION OF INTERIOR FINISH MATERIALS, (INCLUDING GYPSUM WALL BOARD AND INSULATION). IN ADDITION, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THERE HAS BEEN NO EVIDENCE OF WATER PENETRATING THE BUILDING ENVELOPE OR WATER LEAK(S), FROM MECHANICAL AND/OR FIRE SPRINKLER SYSTEMS PRIOR TO ENCLOSING THE WALL, CEILING, OR ROOF CAVITIES.

DRAWN BY:	DPF, MAR
CHECKED BY:	JMK
PROJECT #:	18-2325



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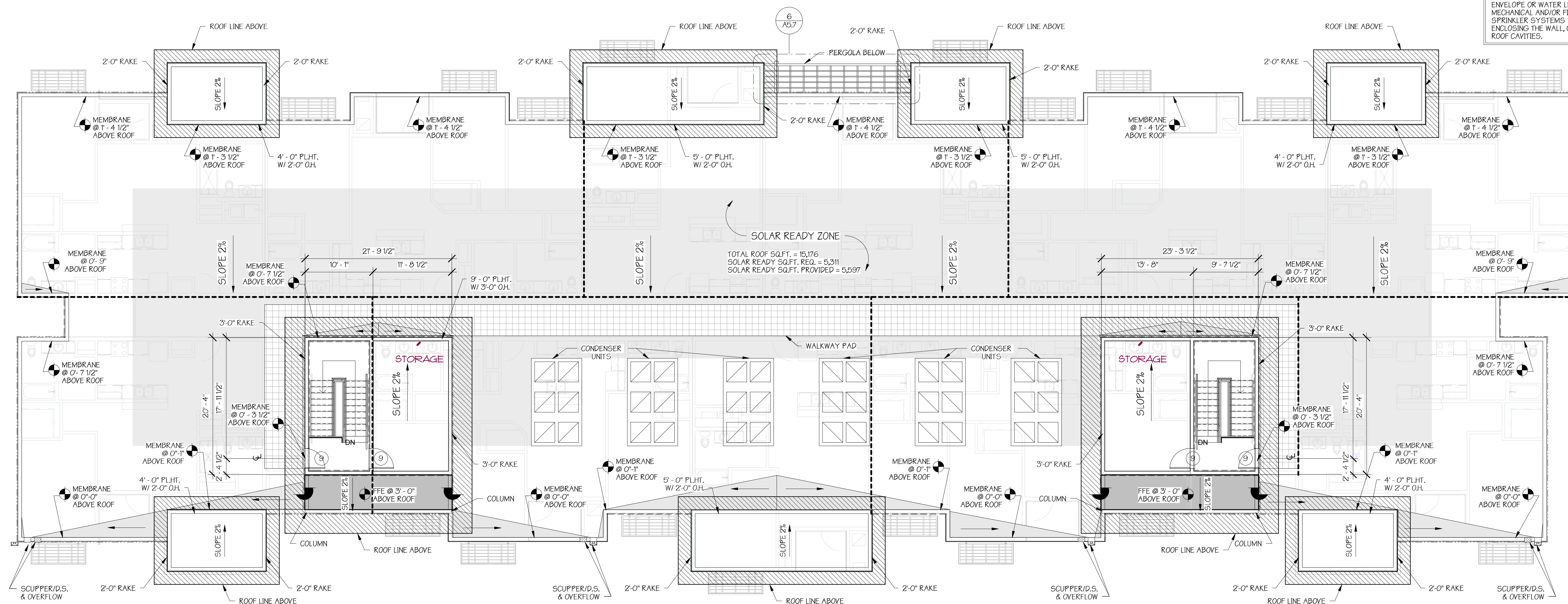
DATE 05/24/19

DESCRIPTION

BLDG. TYPE II - ROOF
PLAN

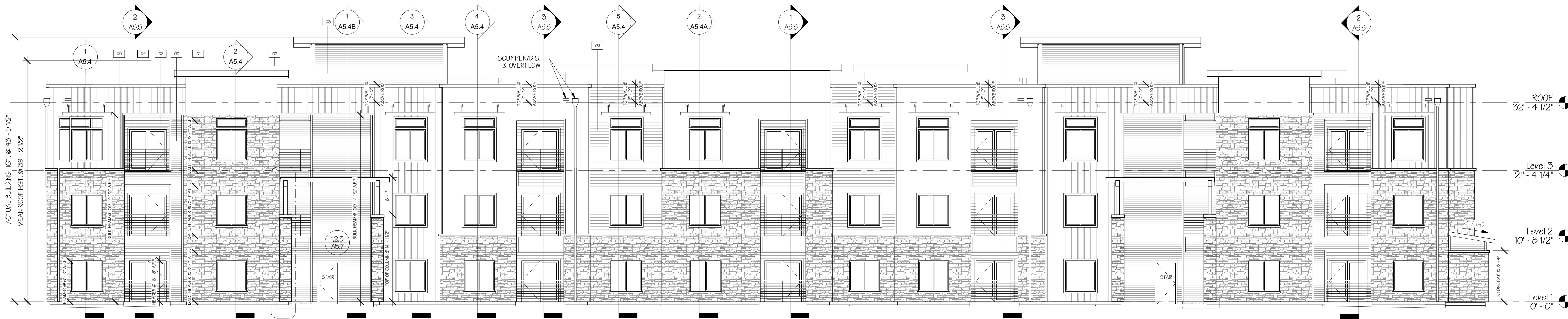
SHEET

A4.2D

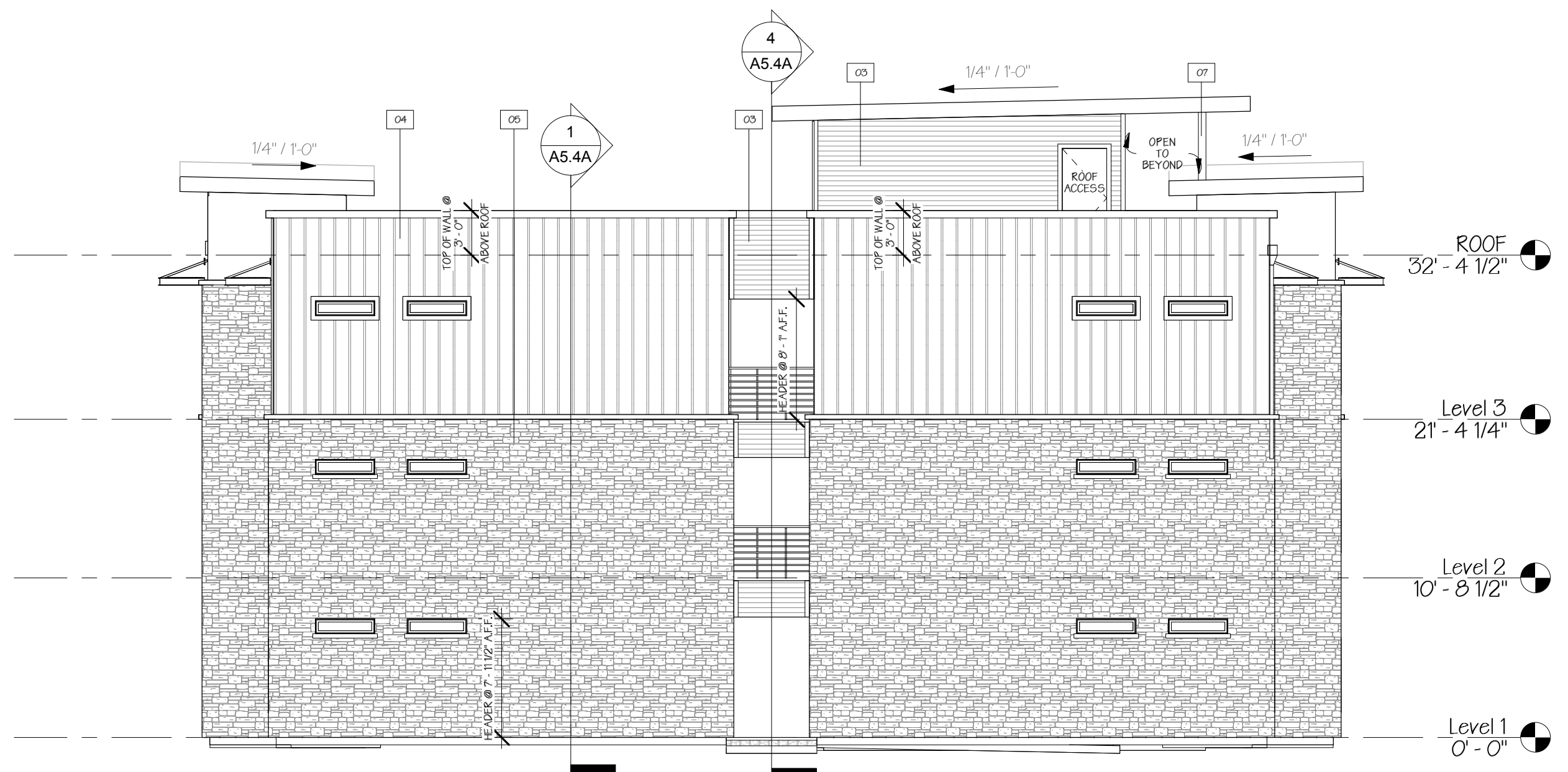


1 BLDG. TYPE II_LEVEL ROOM
1/8" = 1'-0"

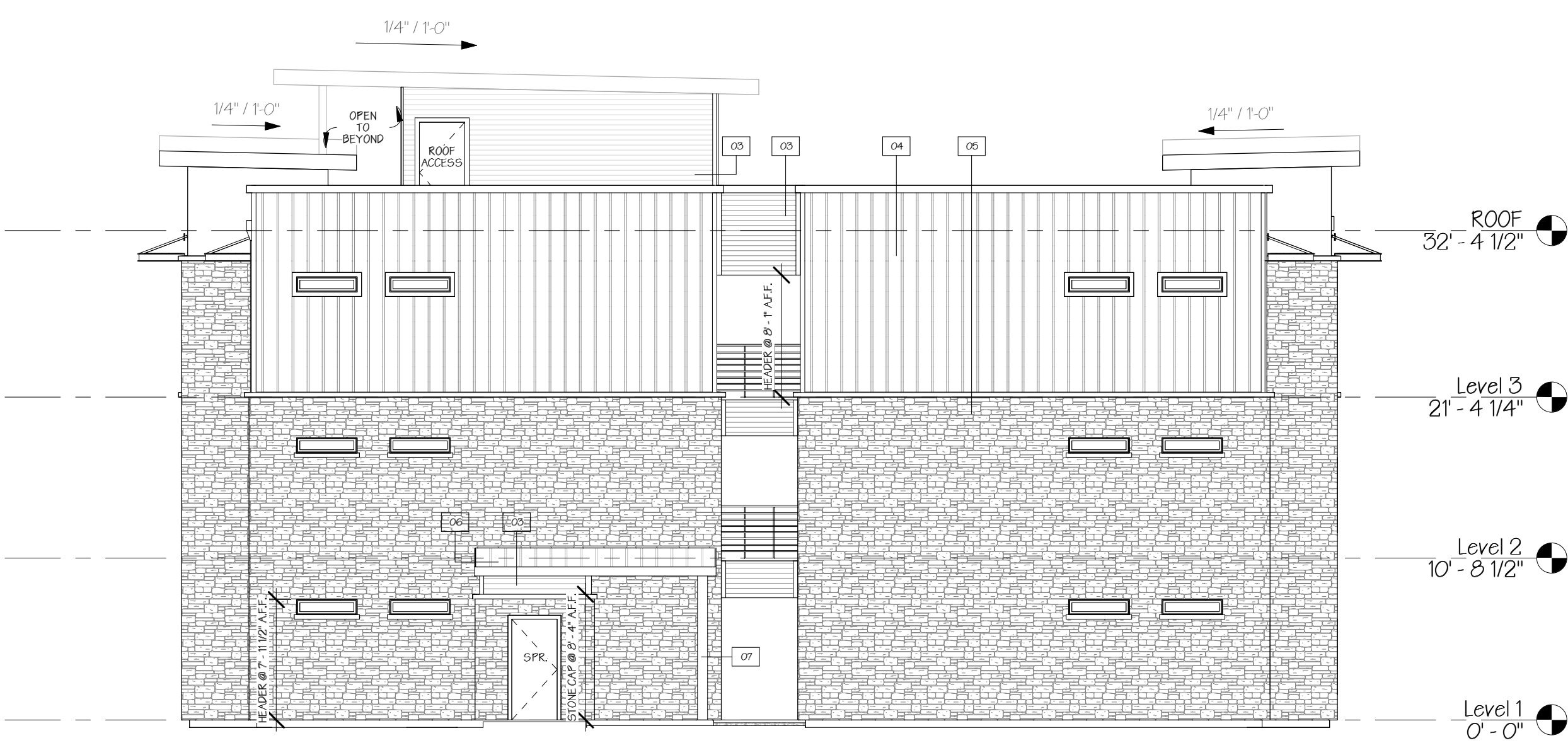
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1 TYPE II - FRONT ELEVATION
1/8" = 1'-0"



2 TYPE II - LEFT ELEVATION
1/8" = 1'-0"

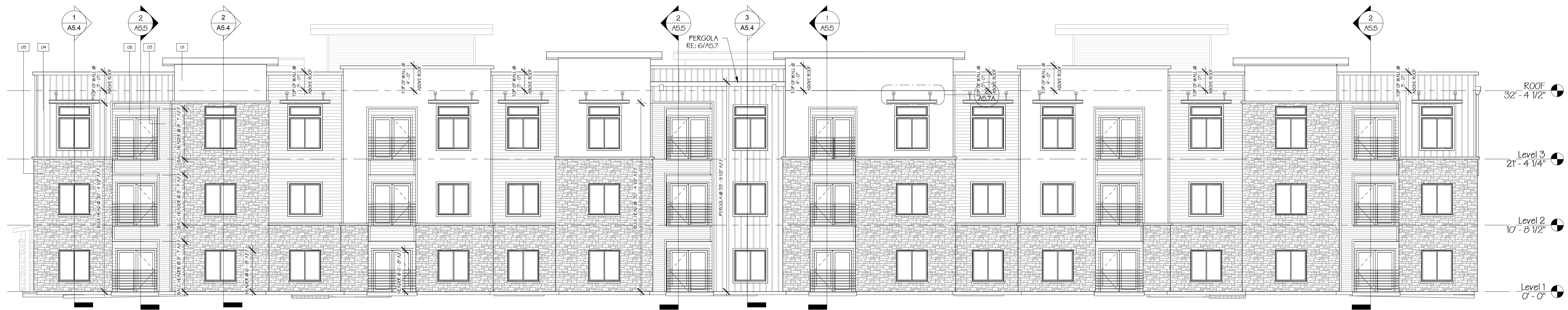


3 TYPE II - RIGHT ELEVATION
1/8" = 1'-0"

MATERIAL PATTERN LEGEND

- 01 STUCCO (COLOR 1)
- 02 LAP SIDING 1 (8" EXP.)
- 03 LAP SIDING 2 (6" EXP.)
- 04 B&B SIDING
- 05 STONE
- 06 STANDING SEAM ROOF
- 07 COLUMN

ADDRESS NUMBERS AT LEAST 8" HIGH MUST BE VISIBLE FROM THE STREET



4 TYPE II - REAR ELEVATION
1/8" = 1'-0"

DRAWN BY: DPF, MAR
CHECKED BY: JMK
PROJECT #: 18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
05/23/19
EXP: 11/30/19

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DWG NAME
DATE 05/24/19
DESCRIPTION BLDG. TYPE II - EXTERIOR ELEVATIONS
SHEET A4.2E



1 BLDG. TYPE II, FRONT PERSPECTIVE



2 BLDG. TYPE II, REAR PERSPECTIVE

DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

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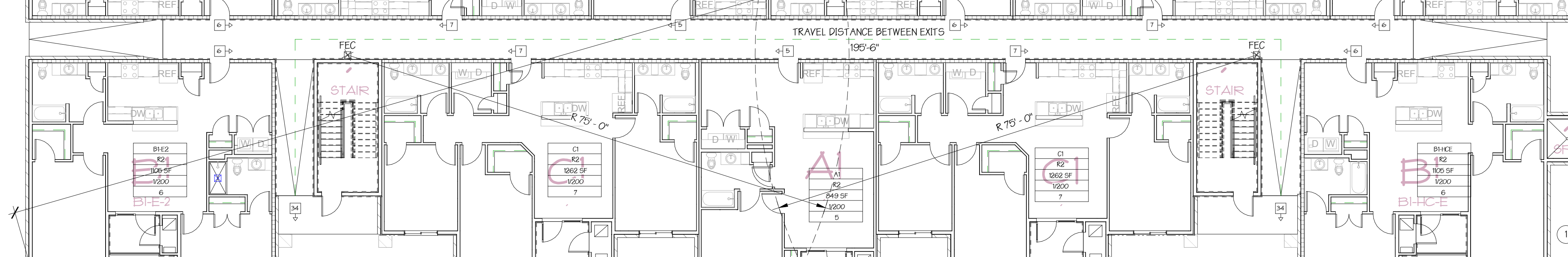
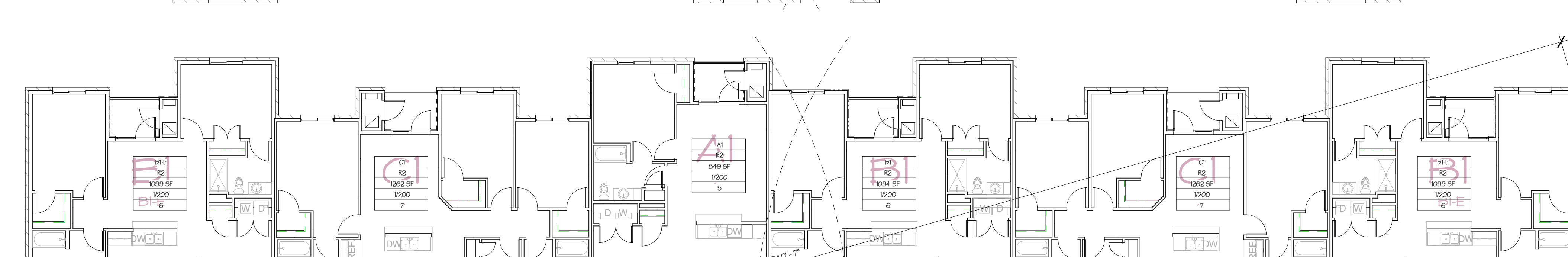
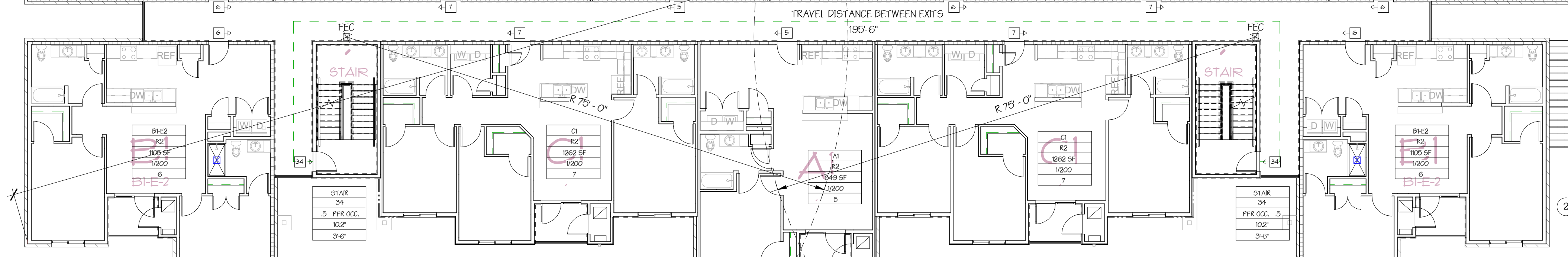
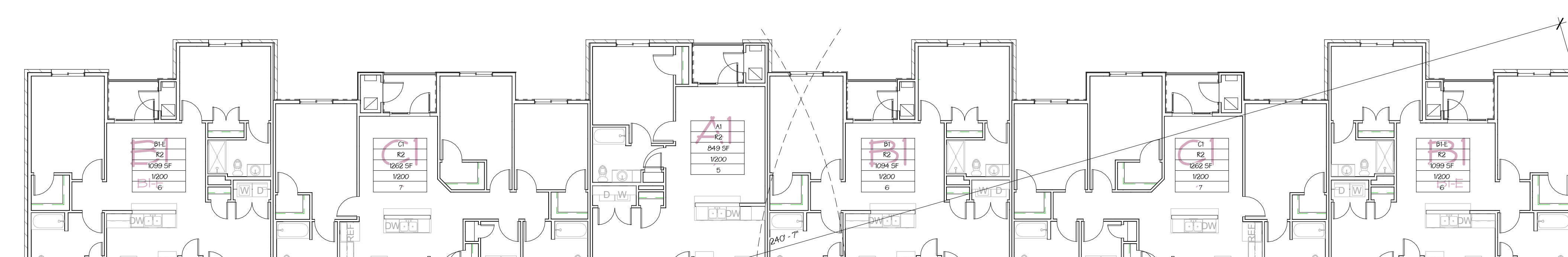
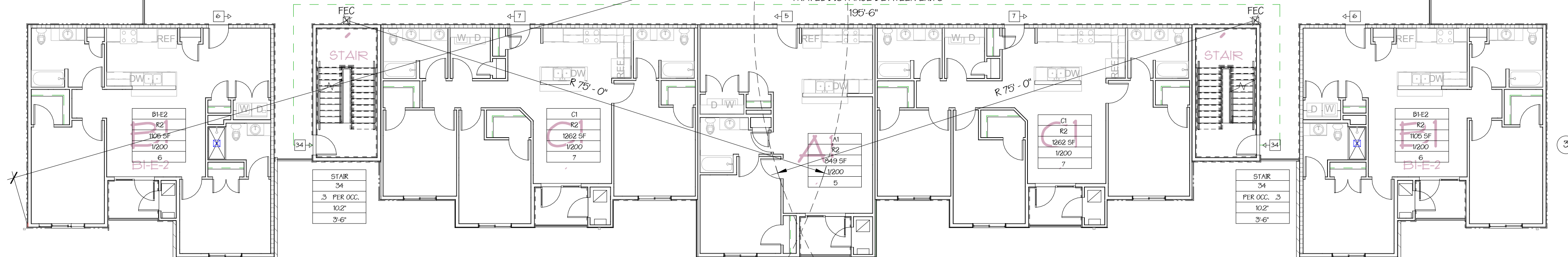
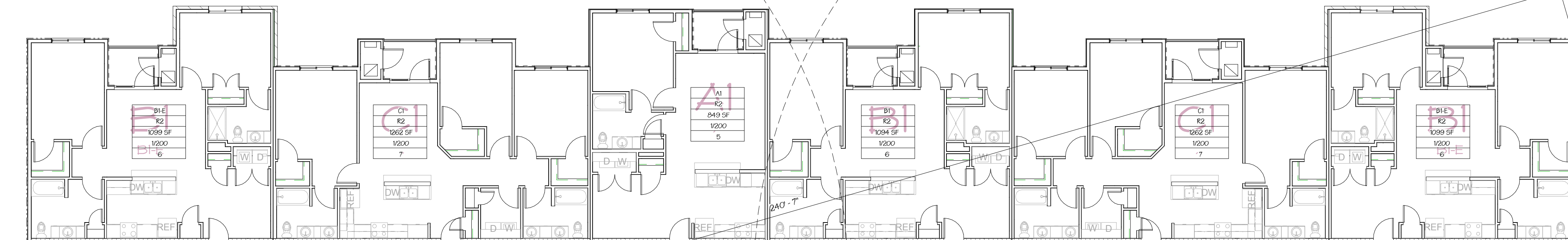
DWG NAME

DATE
05/24/19

DESCRIPTION
BLDG. TYPE II -
PERSPECTIVES

SHEET
A4.2F

6/10/2019 4:50:06 PM



PROVIDE PORTABLE FIRE EXTINGUISHERS WITHIN 75 FT. OF TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING

PROVIDE STAIRWAY IDENTIFICATION AT EACH FLOOR LEVEL IN ALL ENCLOSED STAIRWAYS

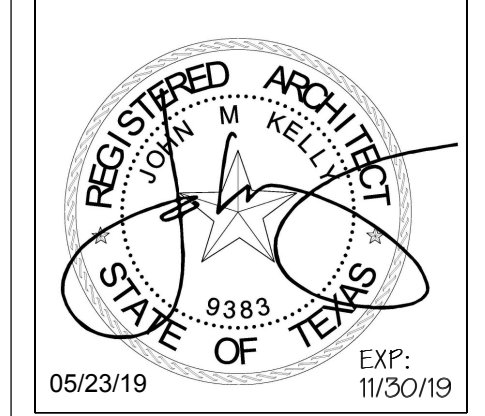
LIFE SAFETY LEGEND

X	UNIT NAME
X	SQ. FT.
X	USE GROUP
X	OCC. PER SQ. FT.
X	OCCUPANT LOAD
X	STAIR NAME
X	OCCUPANT LOAD MULTIPLIER
X	REQ. WIDTH
X	ACTUAL WIDTH
X	OCCUPANCY & EGRESS DIRECTION
⊗	FIRE EXTINGUISHER

DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325



LDG DEVELOPEMENT

1469 SOUTH FOURTH STREET, LOUISVILLE, KY 40208,
(P) 502.609.4940

EXIT SEPARATION REQUIREMENTS	
AREA SERVED	240' - 7"
1/2 DIAGONAL	120' - 3 1/2"
EXIT SEPARATION PROVIDED	195' - 6"

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KELLY GROSSMAN
A R C H I T E C T S L L C
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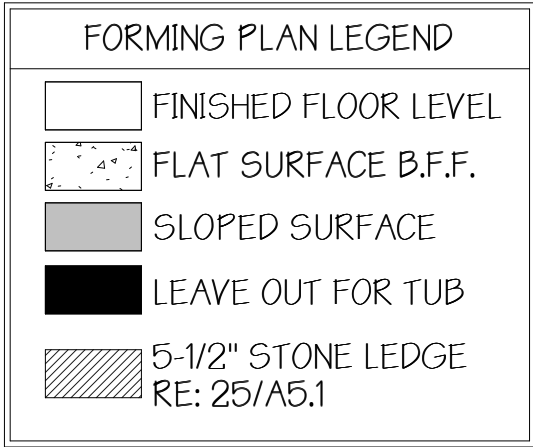
MOONLIGHT GARDEN
8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

No.	Revision	Date
ISSUED FOR PERMIT		
06-10-2019		
ISSUED FOR BID		
ISSUED FOR CONSTRUCTION		
DWG NAME		
DATE		
05/24/19		
DESCRIPTION		
BLDG. TYPE II - LIFE SAFETY PLAN		
SHEET		
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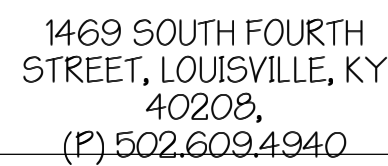
3 BLDG. TYPE II LEVEL 3 LIFE SAFETY
3/32" = 1'-0"

2 BLDG. TYPE II LEVEL 2 LIFE SAFETY
3/32" = 1'-0"

1 BLDG. TYPE II LEVEL 1 LIFE SAFETY
3/32" = 1'-0"



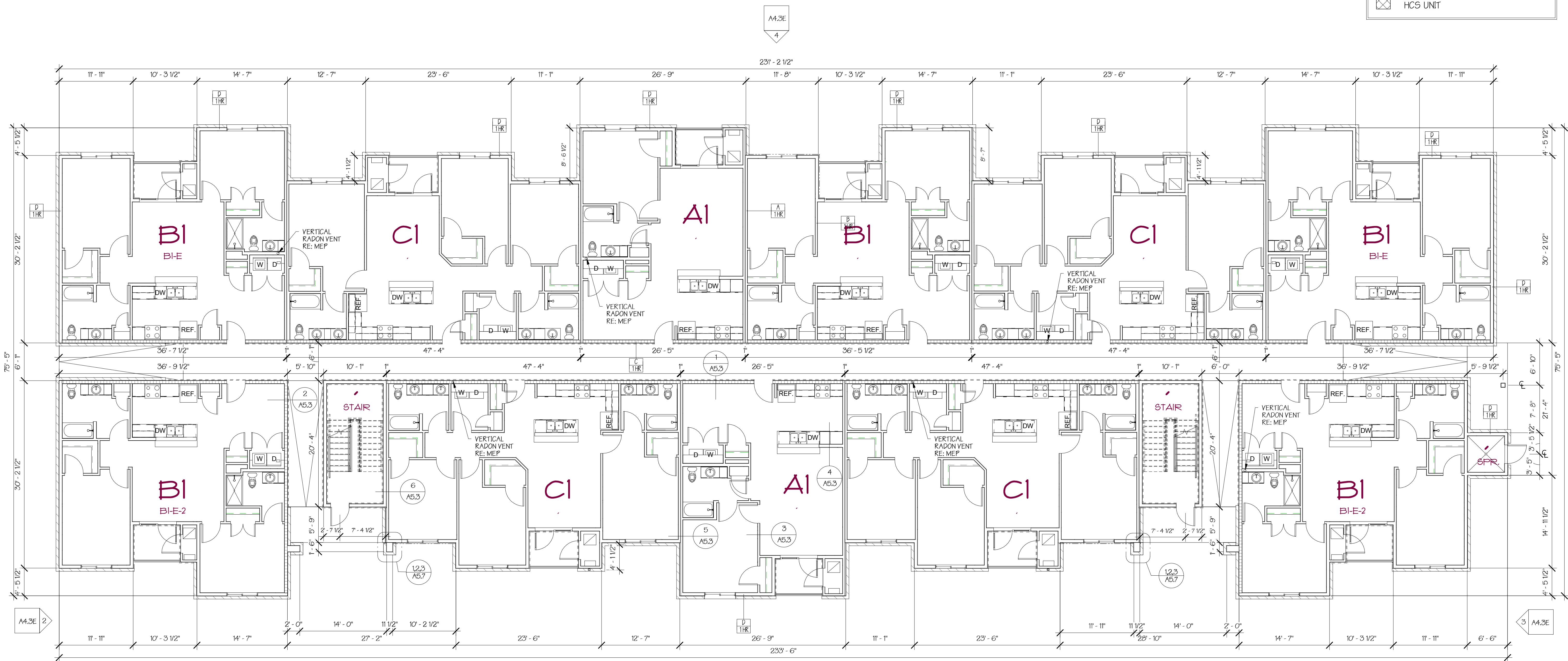
18-2325



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8901 NUCKOLS CROSSING RD, AUSTIN TX
78747

A4.3



WALL TYPE LEGEND

- A 1 HR TENANT SEP. WALL - GYP. ON 2 WOODS STUDS RE: 7/A5.1
- B TYP. INTERIOR PARTITION WALL - GYP. ON WOOD STUD RE: 8/A5.1
- C 1 HR CORRIDOR WALL - GYP. ON STAGGERED WOOD STUDS RE: 9/A5.1
- D 1 HR EXTERIOR WALL - GYP. ON WOOD STUD RE: 10,11,12, & 19/A5.1

WALL MATERIAL LEGEND

- STONE
- SIDING
- STUCCO
- BOARD & BATTEN
- CORRIDOR/STAGGERED STUD
- DRAFTSTOP

PROVIDE PORTABLE FIRE EXTINGUISHERS (NOT LESS THAN 2-A: 10-B: C) WITHIN 75 FEET OF TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING

HCM UNIT
HCS UNIT

DRAWN BY: DPF, MAR
CHECKED BY: JMK
PROJECT #: 18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
05/23/19
EXP: 11/30/19

LDG DEVELOPEMENT

1469 SOUTH FOURTH STREET, LOUISVILLE, KY 40208, (P) 502.609.4940

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ARCHITECTS, PLLC
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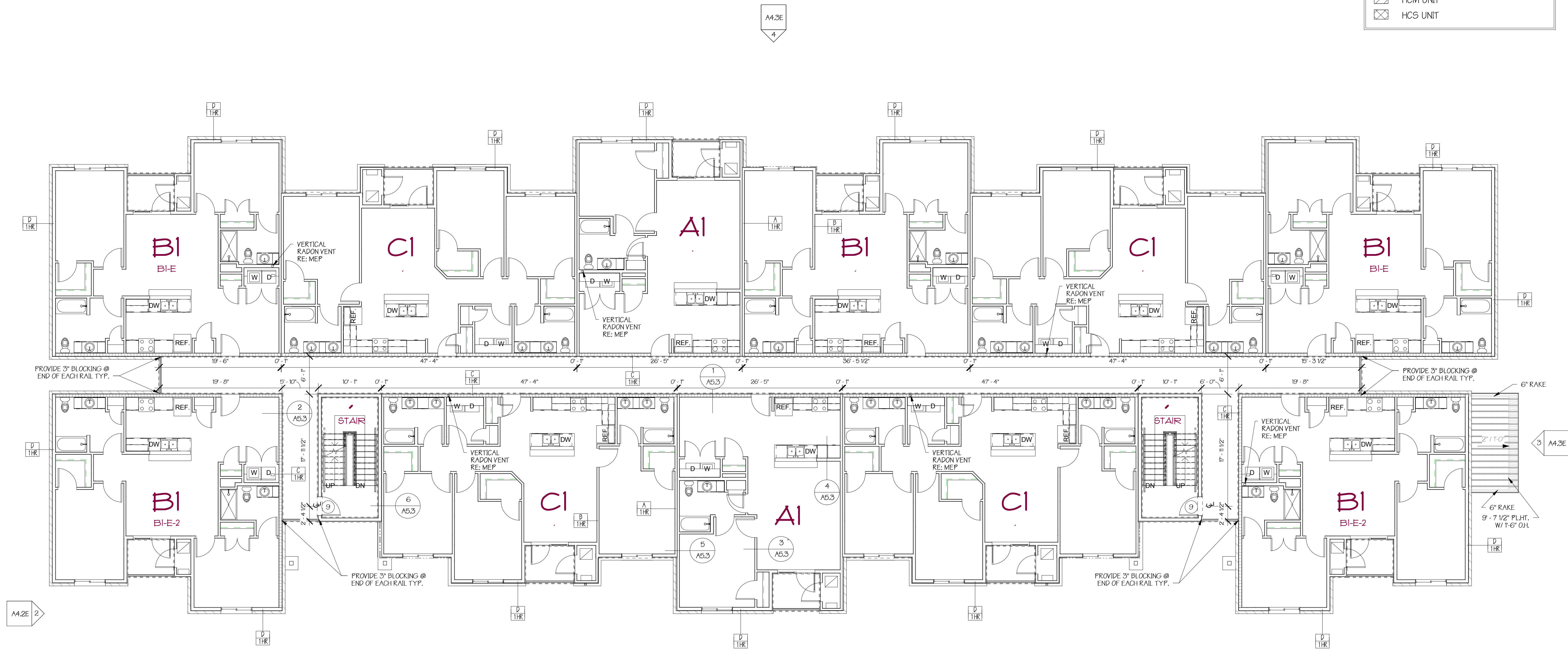
MOONLIGHT GARDEN
8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

No.	Revision	Date
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ISSUED FOR PERMIT 06-10-2019
ISSUED FOR BID
ISSUED FOR CONSTRUCTION

DWG NAME
DATE 05/24/19
DESCRIPTION BLDG. TYPE III - LEVEL 1 FLOOR PLAN
SHEET A4.3A

1 BLDG. TYPE III - LEVEL 1
1/8" = 1'-0"



WALL TYPE LEGEND

- [A] 1 HR TENANT SEP. WALL - GYP. ON 2 WOODS STUDS RE: 7/A5.1
- [B] TYP. INTERIOR PARTITION WALL - GYP. ON WOOD STUD RE: 8/A5.1
- [C] 1 HR CORRIDOR WALL - GYP. ON STAGGERED WOOD STUDS RE: 9/A5.1
- [D] 1 HR EXTERIOR WALL - GYP. ON WOOD STUD RE: 10,11,12, & 19/A5.1

WALL MATERIAL LEGEND

- STONE
- SIDING
- STUCCO
- BOARD & BATTEN
- CORRIDOR/STAGGERED STUD
- DRAFTSTOP

PROVIDE PORTABLE FIRE EXTINGUISHERS (NOT LESS THAN 2-A: 10-B: C) WITHIN 75 FEET OF TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING

HCM UNIT

HCS UNIT

DRAWN BY: DPF, MAR

CHECKED BY: JMK

PROJECT #: 18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
05/23/19
EXP: 11/30/19

LDG DEVELOPEMENT

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MOONLIGHT GARDEN
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No.	Revision	Date
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DWG NAME

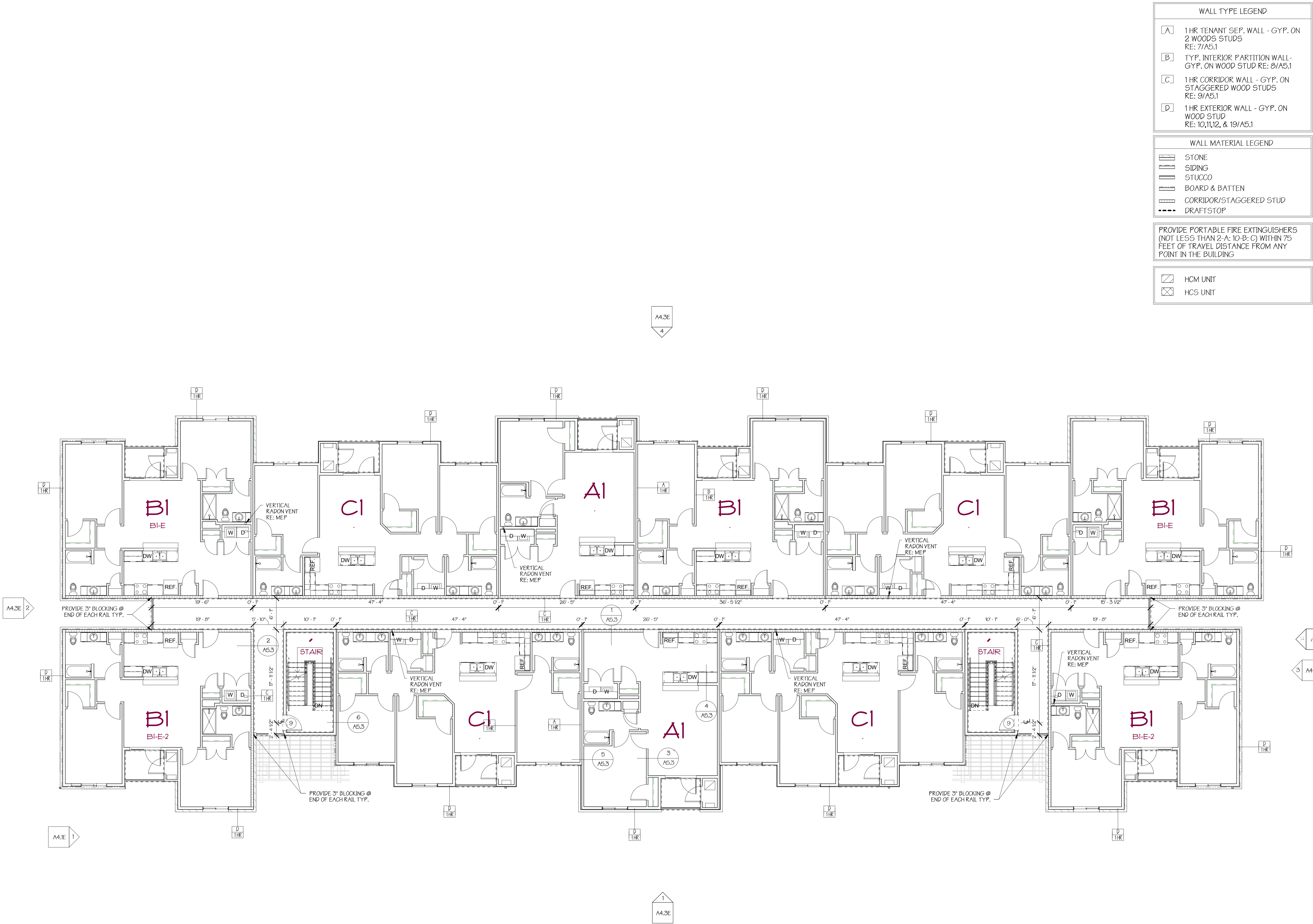
DATE 05/24/19

DESCRIPTION BLDG. TYPE III - LEVEL 2 FLOOR PLAN

SHEET A4.3B

1 BLDG. TYPE III LEVEL 2 1/8" = 1'-0"

6/10/2019 4:53:38 PM



1 BLDG. TYPE III - LEVEL 3
1/8" = 1'-0"

WALL TYPE LEGEND

- A 1 HR TENANT SEP. WALL - GYP. ON 2 WOODS STUDS RE: 7/A5.1
- B TYP. INTERIOR PARTITION WALL - GYP. ON WOOD STUD RE: 8/A5.1
- C 1 HR CORRIDOR WALL - GYP. ON STAGGERED WOOD STUDS RE: 9/A5.1
- D 1 HR EXTERIOR WALL - GYP. ON WOOD STUD RE: 10,11,12, & 19/A5.1

WALL MATERIAL LEGEND

- STONE
- SIDING
- STUCCO
- BOARD & BATTEN
- CORRIDOR/STAGGERED STUD
- DRAFTSTOP

PROVIDE PORTABLE FIRE EXTINGUISHERS (NOT LESS THAN 2-A: 10-B: C) WITHIN 75 FEET OF TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING

- HCM UNIT
- HCS UNIT

DRAWN BY: DPF, MAR

CHECKED BY: JMK

PROJECT #: 18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
05/23/19
EXP: 11/30/19

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MOONLIGHT GARDEN
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DWG NAME

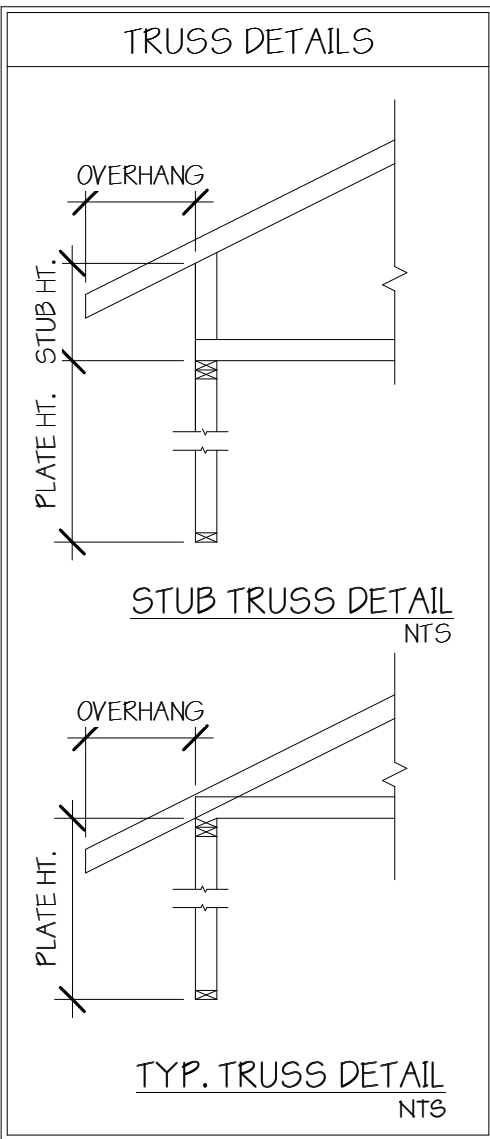
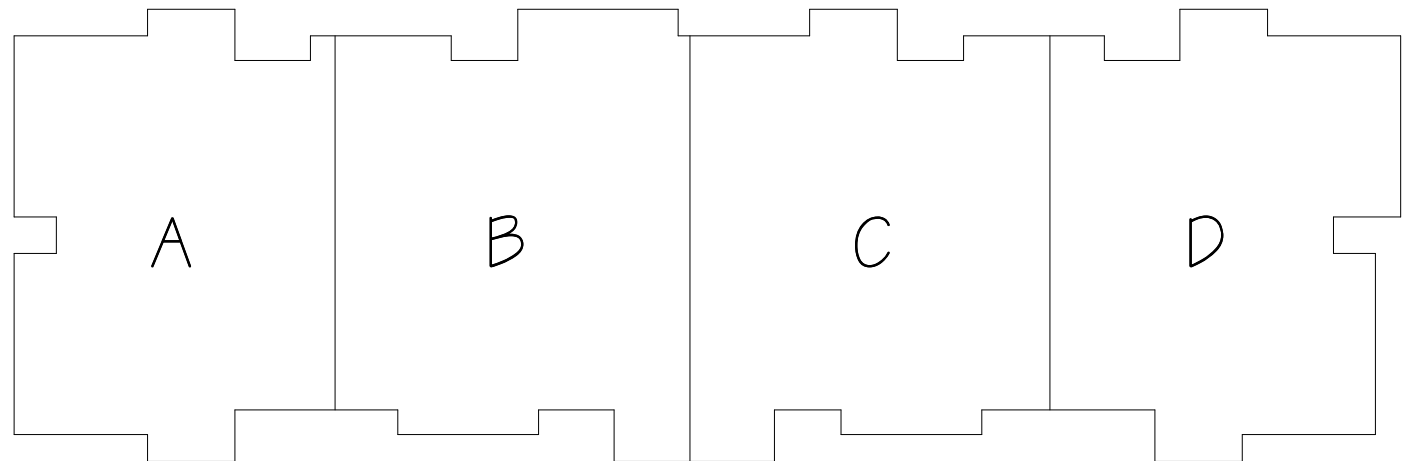
DATE 05/24/19

DESCRIPTION BLDG. TYPE III - LEVEL 3 FLOOR PLAN

SHEET **A4.3C**

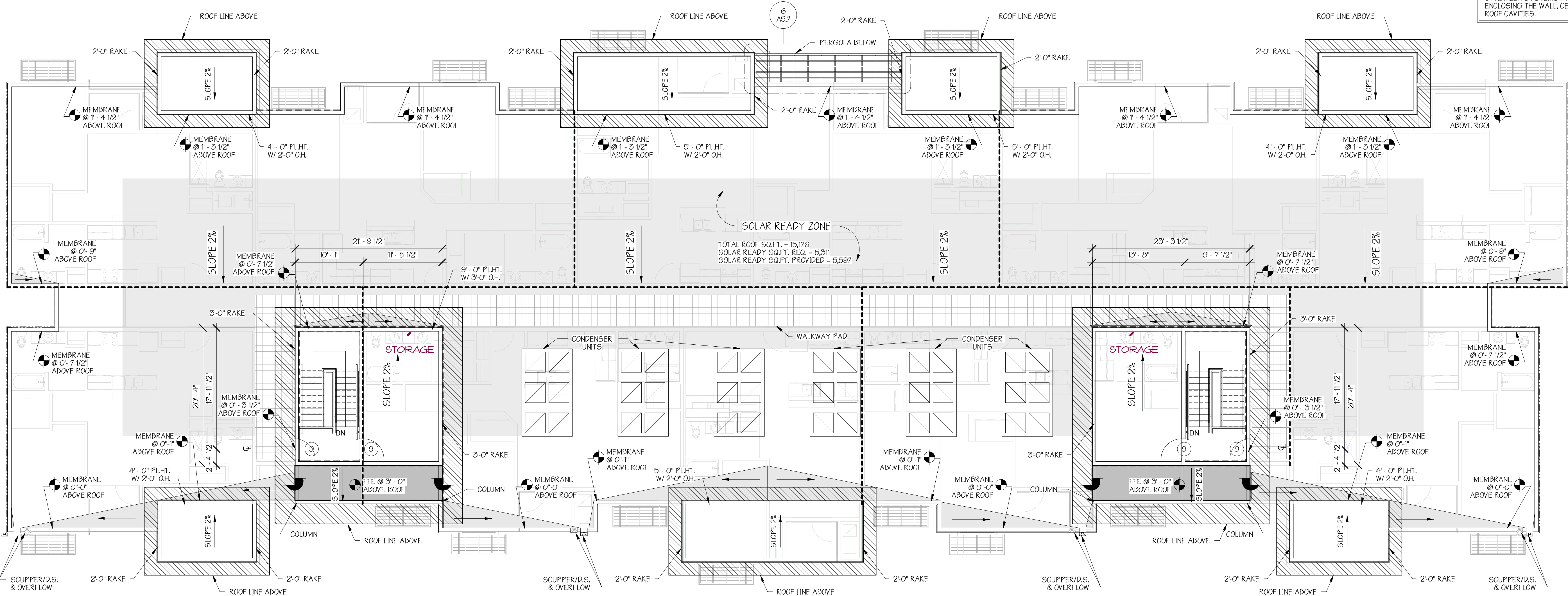
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ROOF DRAINAGE CALCULATIONS						
BLDG AREA	AREA (SQ. FT.)	REQUIRED DRAINAGE OPENING SIZE	DRAINAGE OPENINGS PROVIDED		DOWNSPOUT DIMENSIONS	SCUPPER DIMENSIONS
			QTY. & SIZE			
A	3626	5 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"
B	3967	5 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"
C	3981	5 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"
D	3701	5 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"



DRY IN NOTE

THE ENTIRE BUILDING ENVELOPE (INCLUDING ROOF, WALLS & FLOORS) TO BE DRIED IN PRIOR TO THE STORAGE AND INSTALLATION OF INTERIOR FINISH MATERIALS, (INCLUDING GYPSUM WALL BOARD AND INSULATION). IN ADDITION, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THERE HAS BEEN NO EVIDENCE OF WATER PENETRATING THE BUILDING ENVELOPE OR WATER LEAK(S), FROM MECHANICAL AND/OR FIRE SPRINKLER SYSTEMS PRIOR TO ENCLOSING THE WALL, CEILING, OR ROOF CAVITIES.

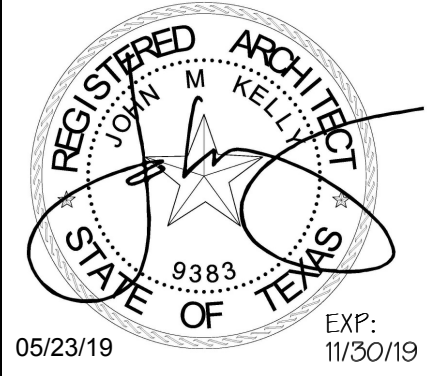


1 BLDG. TYPE III LEVEL ROOF
1/8" = 1'-0"

DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325



LDG DEVELOPEMENT

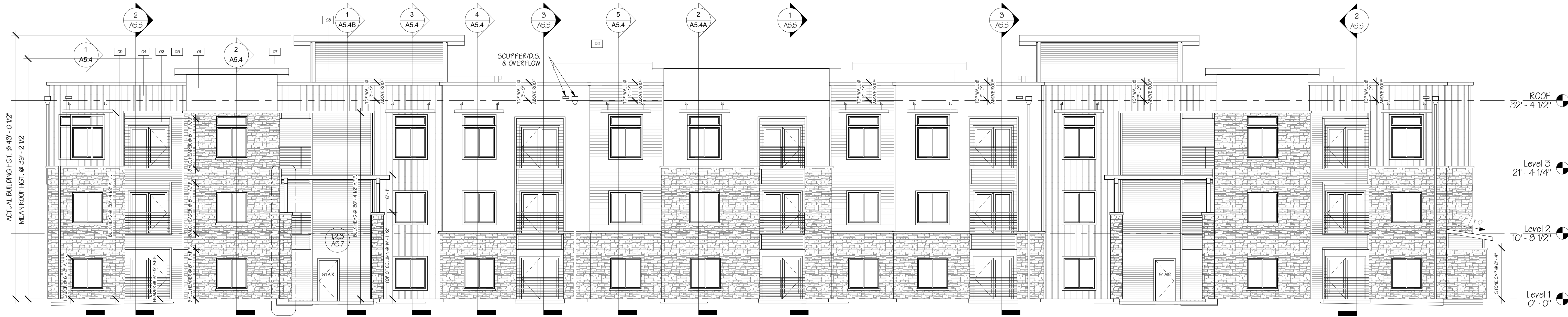
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(P) 502.609.4940

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REGISTERED ARCHITECT
STATE OF TEXAS
NO. 9383
EXPIRATION DATE 11/30/19
280 ADAMS EASY ROAD, SUITE 200, AUSTIN, TEXAS 78746 (P) 512.927.3587
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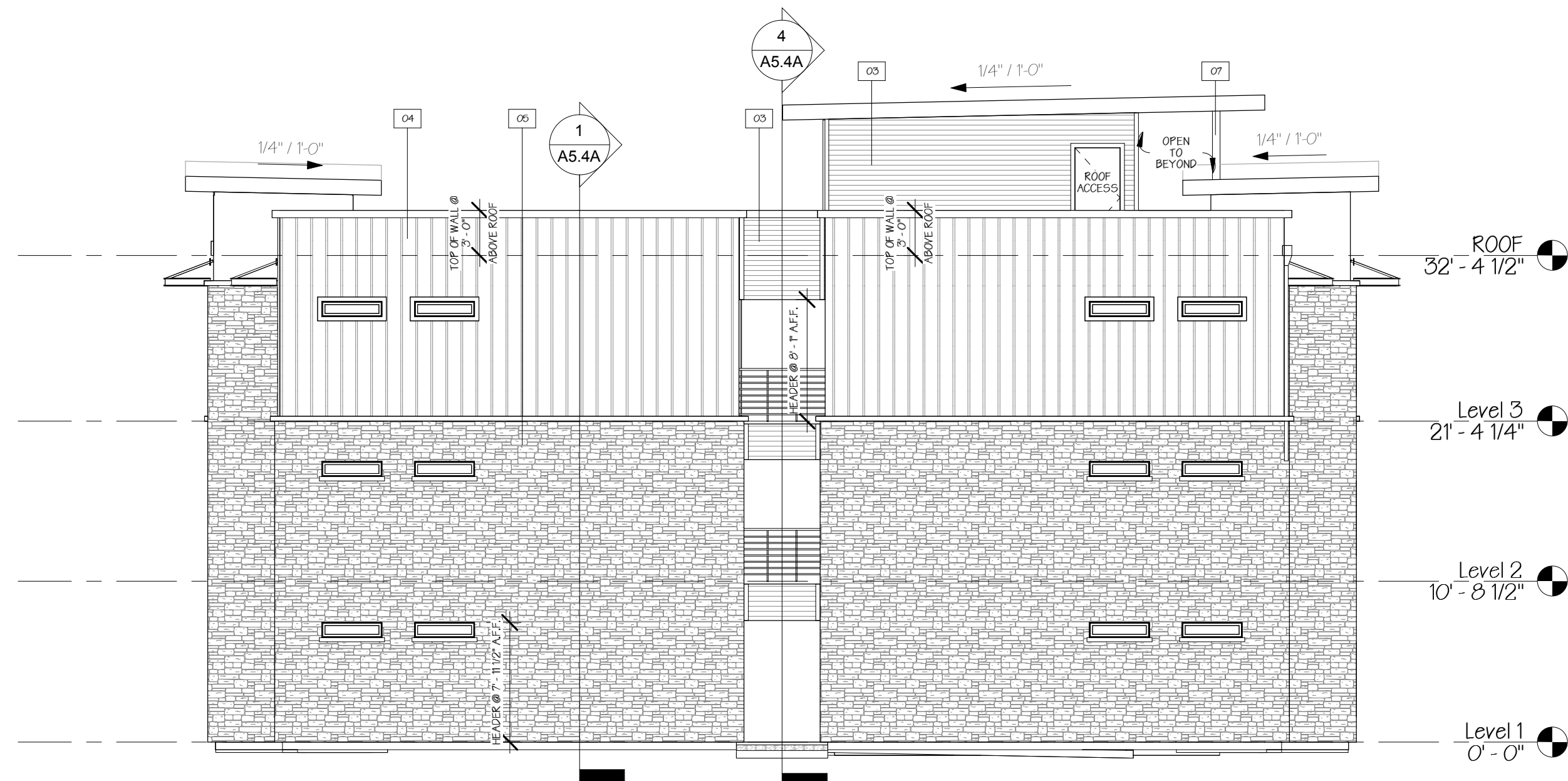
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MOONLIGHT GARDEN
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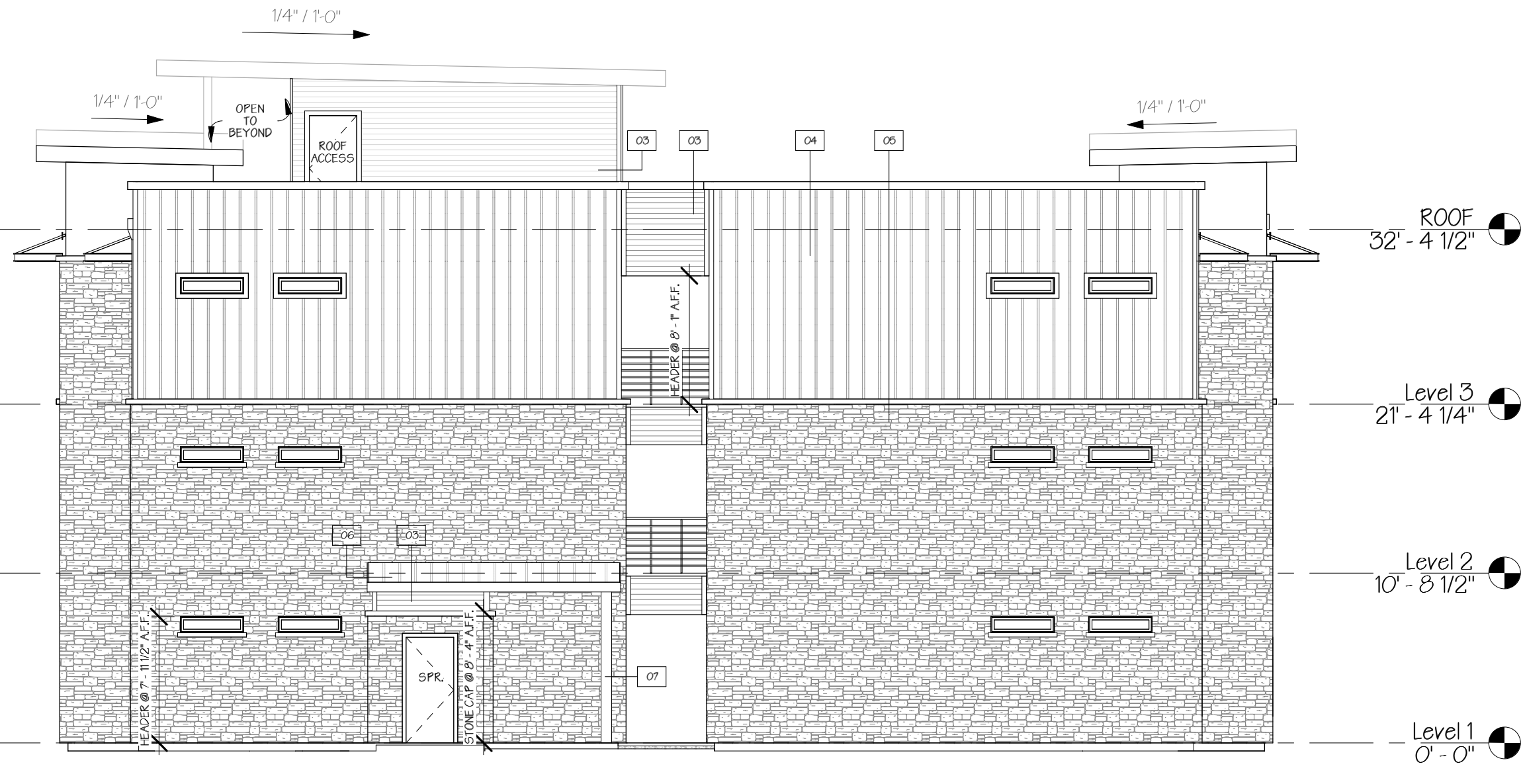
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DESCRIPTION		
BLDG. TYPE III - ROOF PLAN		
SHEET		
A4.3D		



1 TYPE II - FRONT ELEVATION
1/8" = 1'-0"



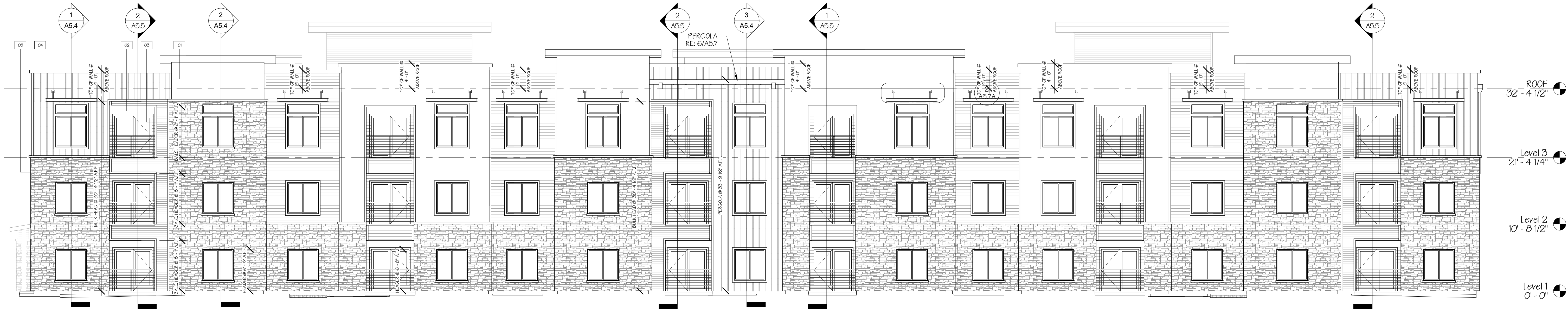
2 TYPE III - LEFT ELEVATION
1/8" = 1'-0"



3 TYPE III - RIGHT ELEVATION
1/8" = 1'-0"

MATERIAL PATTERN LEGEND	
01	STUCCO (COLOR 1)
02	LAP SIDING 1 (8" EXP.)
03	LAP SIDING 2 (6" EXP.)
04	B&B SIDING
05	STONE
06	STANDING SEAM ROOF
07	COLUMN

ADDRESS NUMBERS AT LEAST 8"
HIGH MUST BE VISIBLE FROM THE
STREET

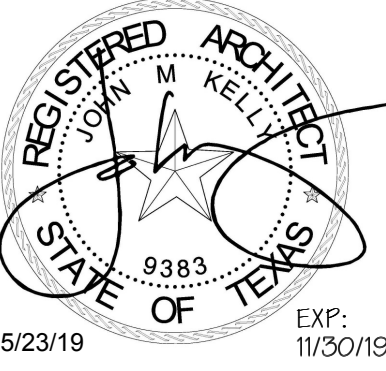


4 TYPE III - REAR ELEVATION
1/8" = 1'-0"

DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325



LDG DEVELOPEMENT

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DWG NAME		
DATE		
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DESCRIPTION		
BLDG. TYPE III - EXTERIOR ELEVATIONS		
SHEET		
A4.3E		



1 BLDG. TYPE III FRONT PERSPECTIVE



2 BLDG. TYPE III REAR PERSPECTIVE

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DPF,
MAR

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PROJECT #:
18-2325

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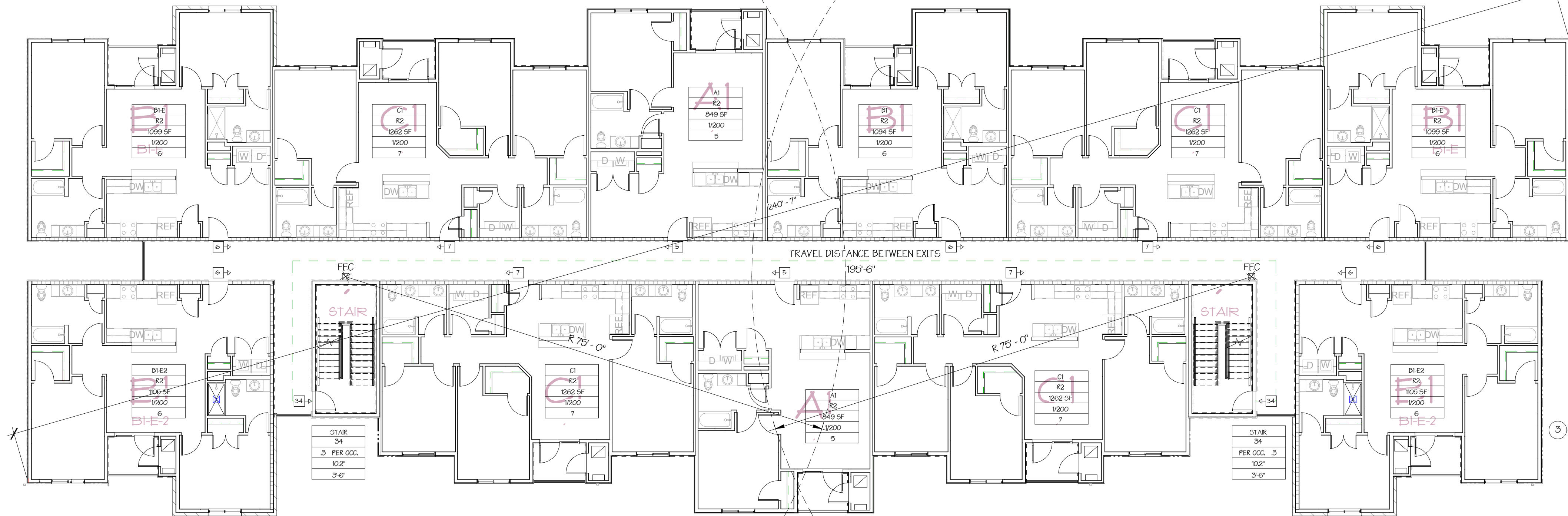
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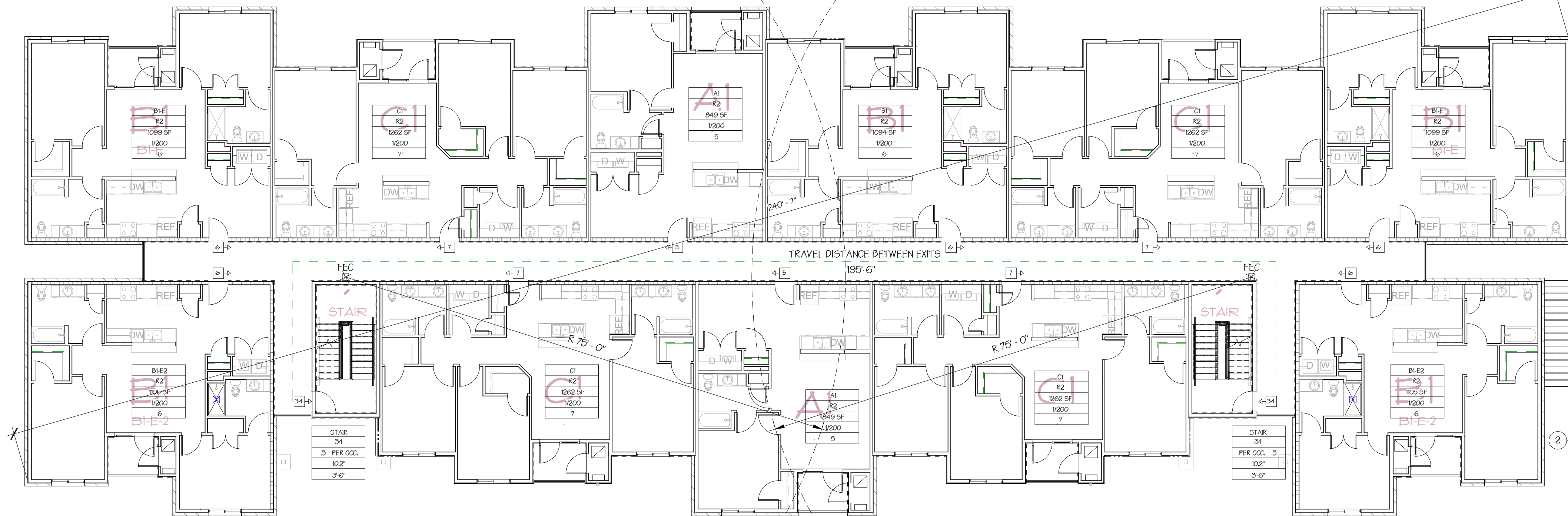
DESCRIPTION
BLDG. TYPE III -
PERSPECTIVES

SHEET
A4.3F

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3 BLDG. TYPE III LEVEL 3 LIFE SAFETY
3/32" = 1'-0"



2 BLDG. TYPE III LEVEL 2 LIFE SAFETY
3/32" = 1'-0"



1 BLDG. TYPE III LEVEL 1 LIFE SAFETY
3/32" = 1'-0"

PROVIDE PORTABLE FIRE EXTINGUISHERS W/IN 75 FT. OF TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING

PROVIDE STAIRWAY IDENTIFICATION AT EACH FLOOR LEVEL IN ALL ENCLOSED STAIRWAYS

LIFE SAFETY LEGEND

X	UNIT NAME
X	SQ. FT.
X	USE GROUP
X	OCC. PER SQ. FT.
X	OCCUPANT LOAD
X	STAIR NAME
X	OCCUPANT LOAD
X	MULTIPLIER
X	REQ. WIDTH
X	ACTUAL WIDTH
X	OCCUPANCY & EGRESS DIRECTION
X	FIRE EXTINGUISHER

EXIT SEPARATION REQUIREMENTS	
AREA SERVED	240' - 7"
1/2 DIAGONAL	120' - 3 1/2"
EXIT SEPARATION PROVIDED	195' - 6"

DRAWN BY: DPF, MAR

CHECKED BY: JMK

PROJECT #: 18-2325

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KELLY GROSSMAN

REGISTERED ARCHITECT

STATE OF TEXAS

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EXP: 11/30/19

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MOONLIGHT GARDEN

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No.	Revision	Date

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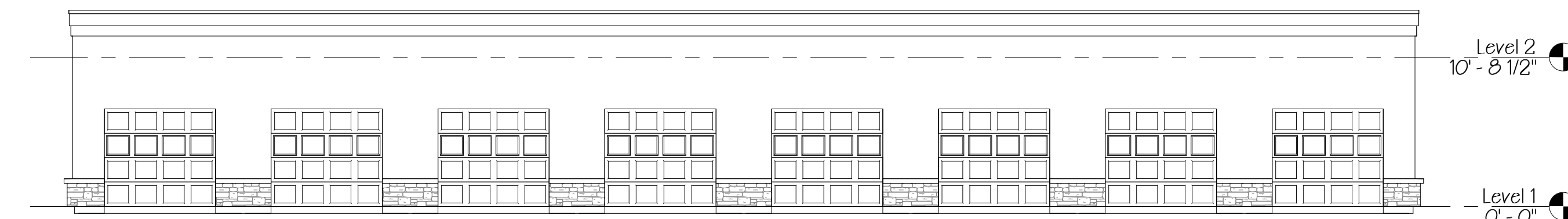
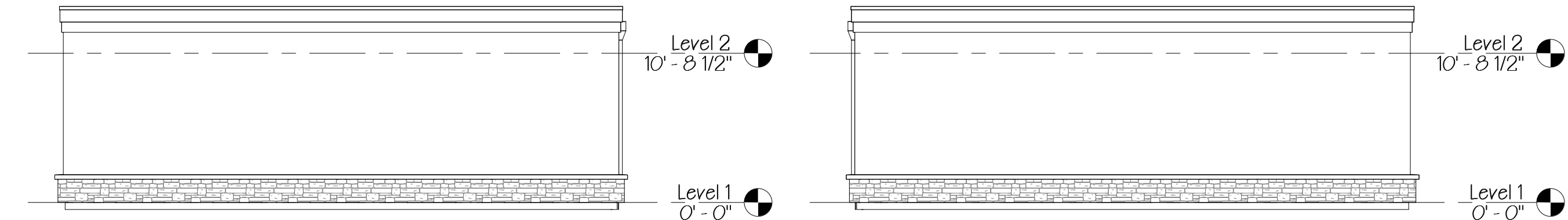
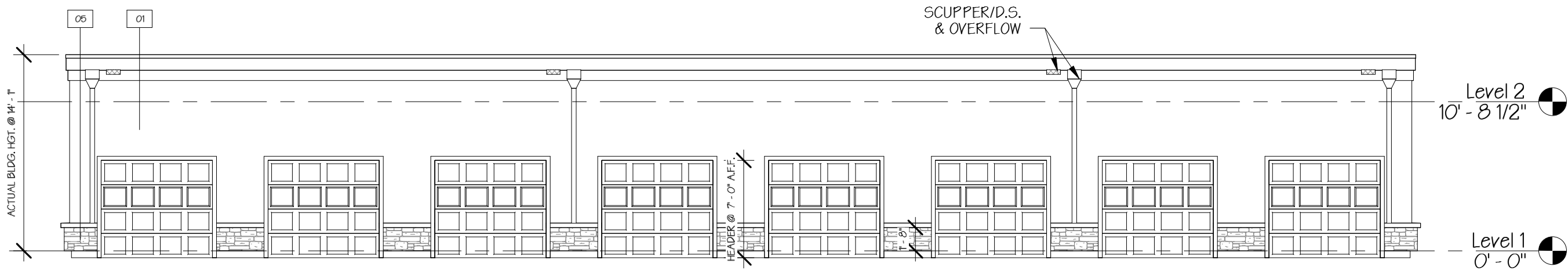
DATE 05/24/19

DESCRIPTION BLDG. TYPE III - LIFE SAFETY PLAN

SHEET A4.3G

BLDG AREA	AREA (SQ. FT.)	REQUIRED DRAINAGE OPENING SIZE	DRAINAGE OPENINGS PROVIDED		DOWNSPOUT DIMENSIONS	SCUPPER DIMENSIONS
			QTY. & SIZE			
A	747	4 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"
B	1404	4 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"
C	1158	4 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"
D	508	4 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"

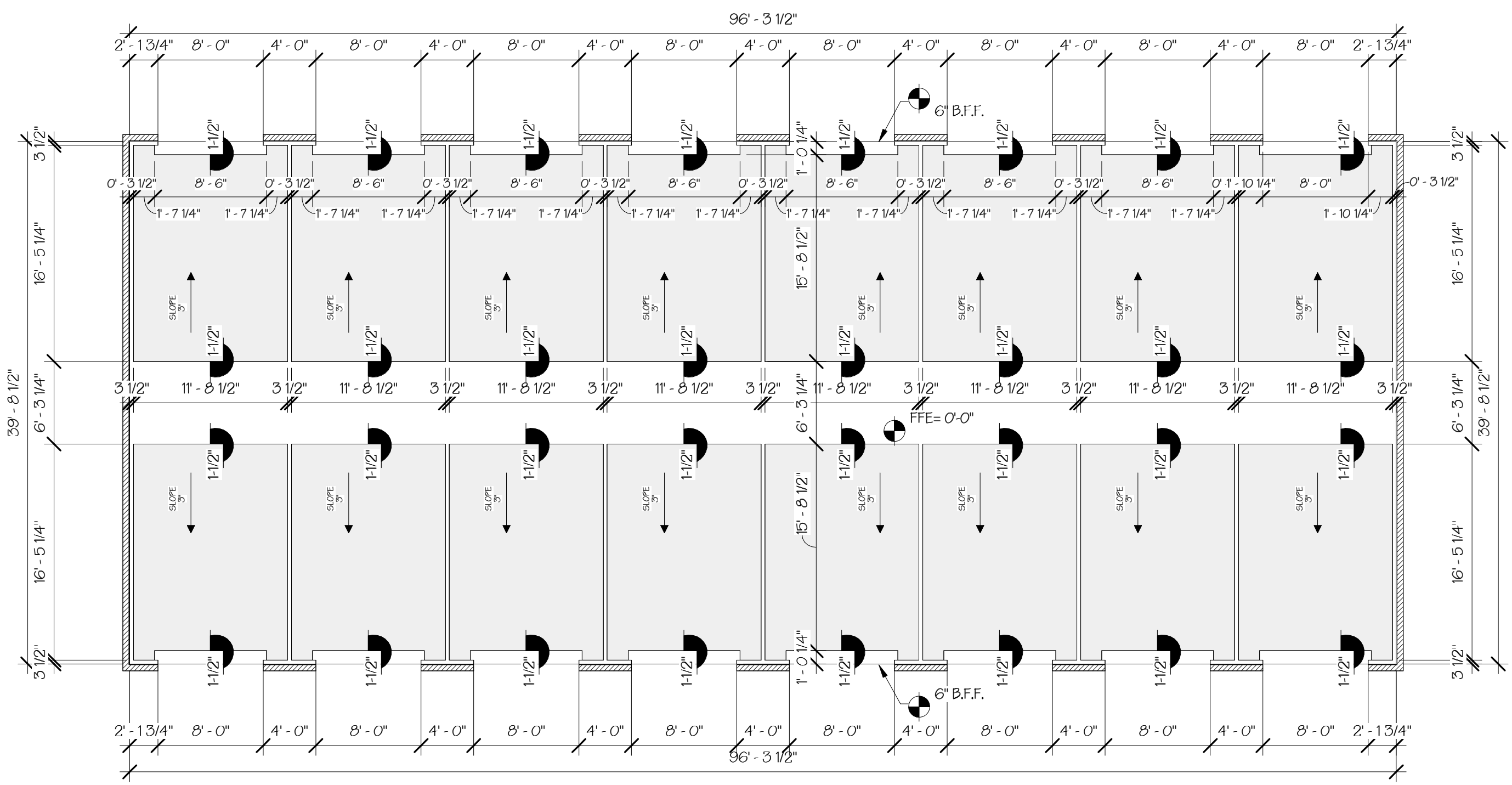
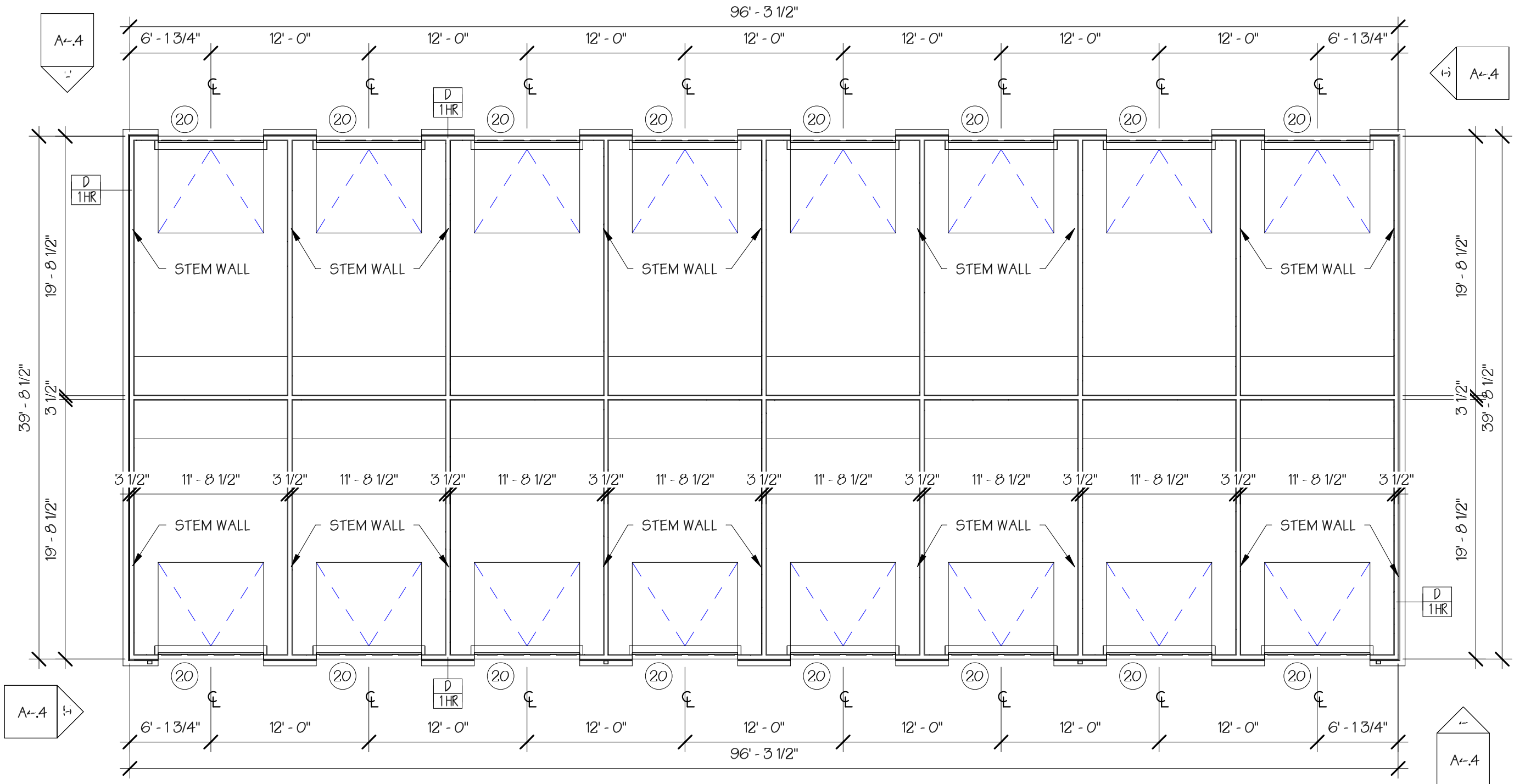
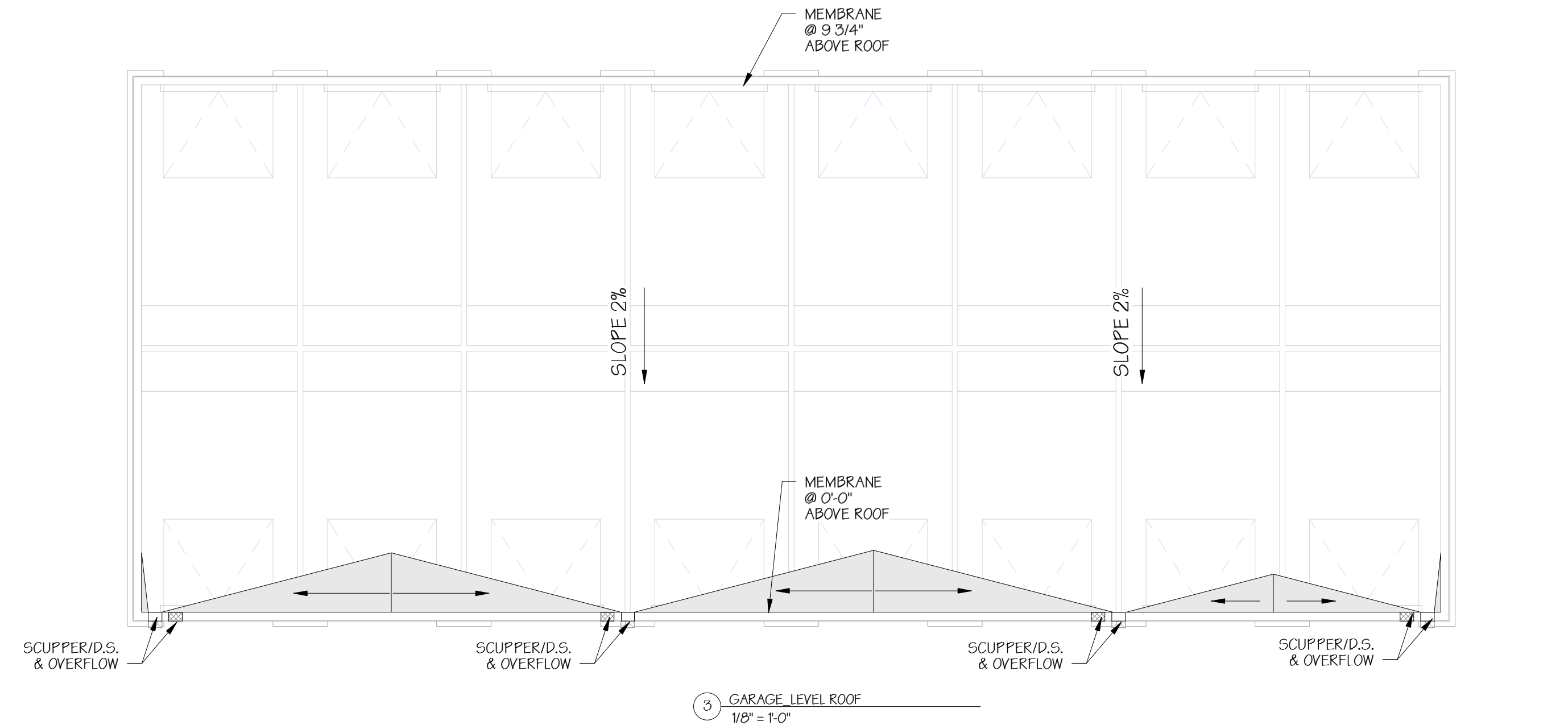
A	B	C	D
---	---	---	---



MATERIAL PATTERN LEGEND	
01	STUCCO (COLOR 1)
02	LAP SIDING 1 (8" EXP.)
03	LAP SIDING 2 (6" EXP.)
04	B&B SIDING
05	STONE
06	STANDING SEAM ROOF
07	COLUMN

ADDRESS NUMBERS AT LEAST 8" HIGH MUST BE VISIBLE FROM THE STREET

FORMING PLAN LEGEND	
	FINISHED FLOOR LEVEL
	FLAT SURFACE B.F.F.
	SLOPED SURFACE
	LEAVE OUT FOR TUB
	5-1/2" STONE LEDGE RE: 25/A5.1



DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
9383
EXP. 11/30/19

LDG DEVELOPEMENT

1469 SOUTH FOURTH STREET, LOUISVILLE, KY 40208,
(P) 502.609.4940

ARCHITECTURE • LAND PLANNING • LANDSCAPE DESIGN • CONSTRUCTION ADMINISTRATION •
KELLY GROSSMAN
ARCHITECTS, PLLC
280 ADAMS EASY ROAD, SUITE 200, AUSTIN, TEXAS 78746 (P) 512.927.3387
www.kellygrossman.com

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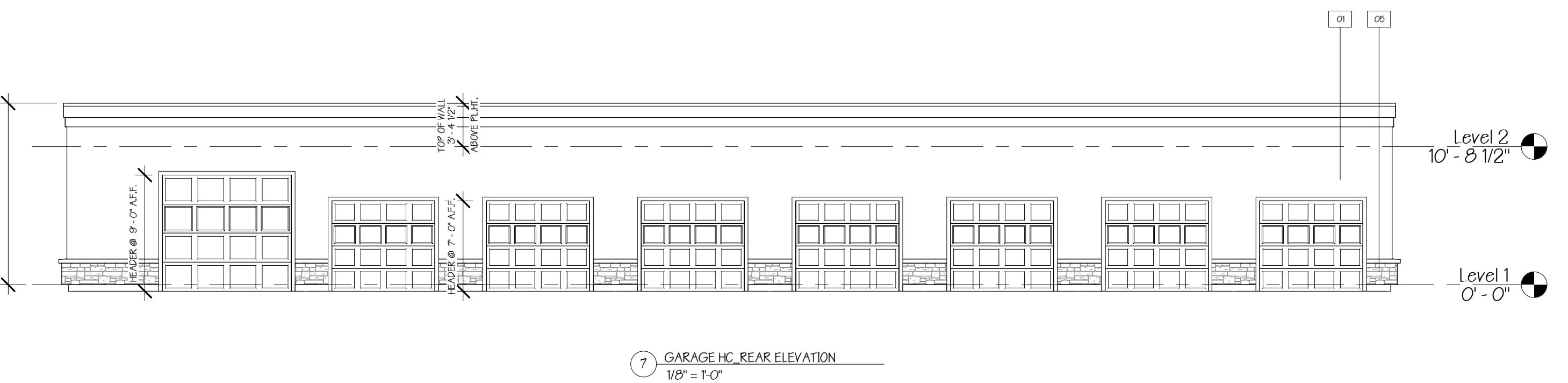
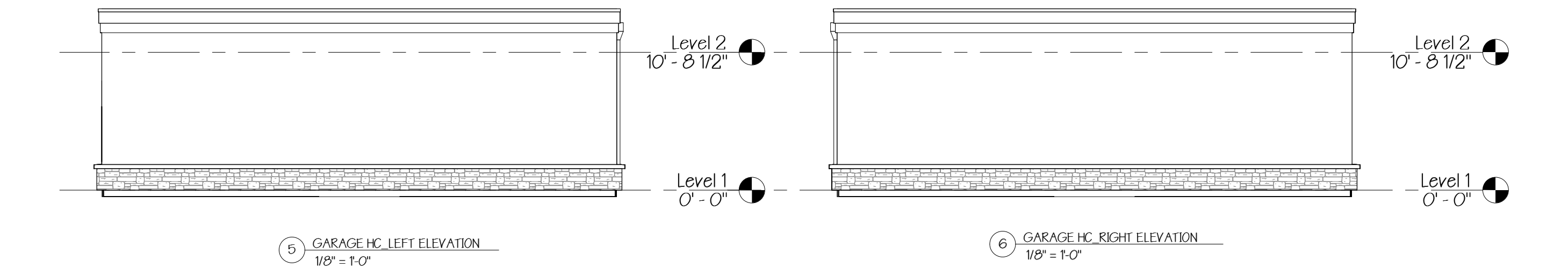
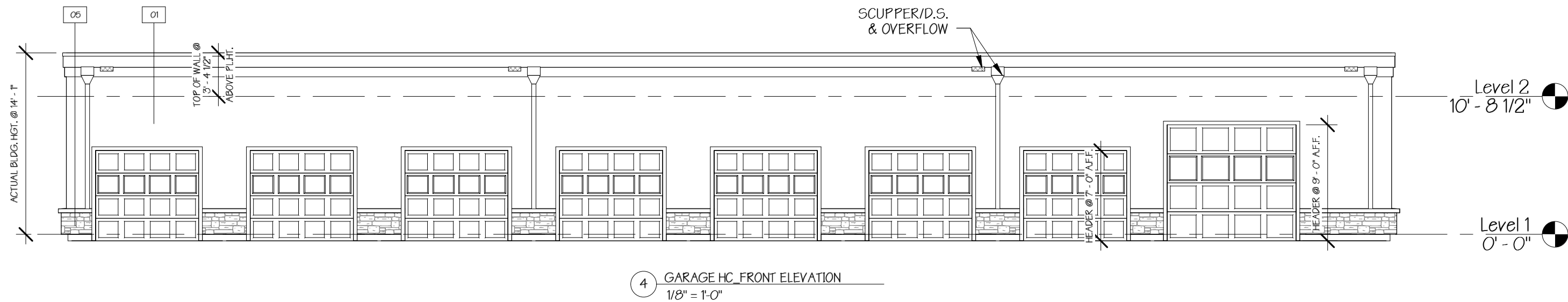
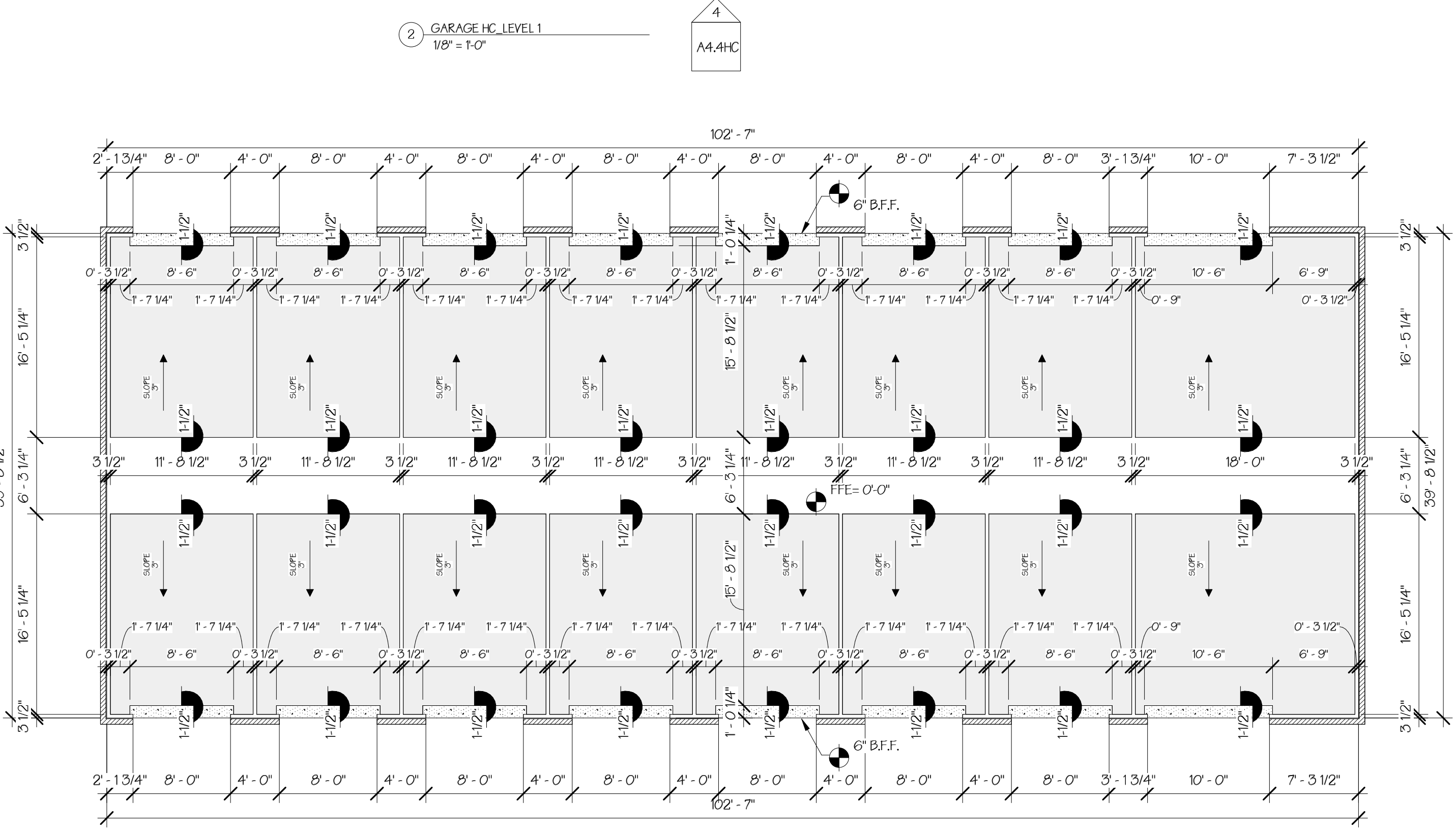
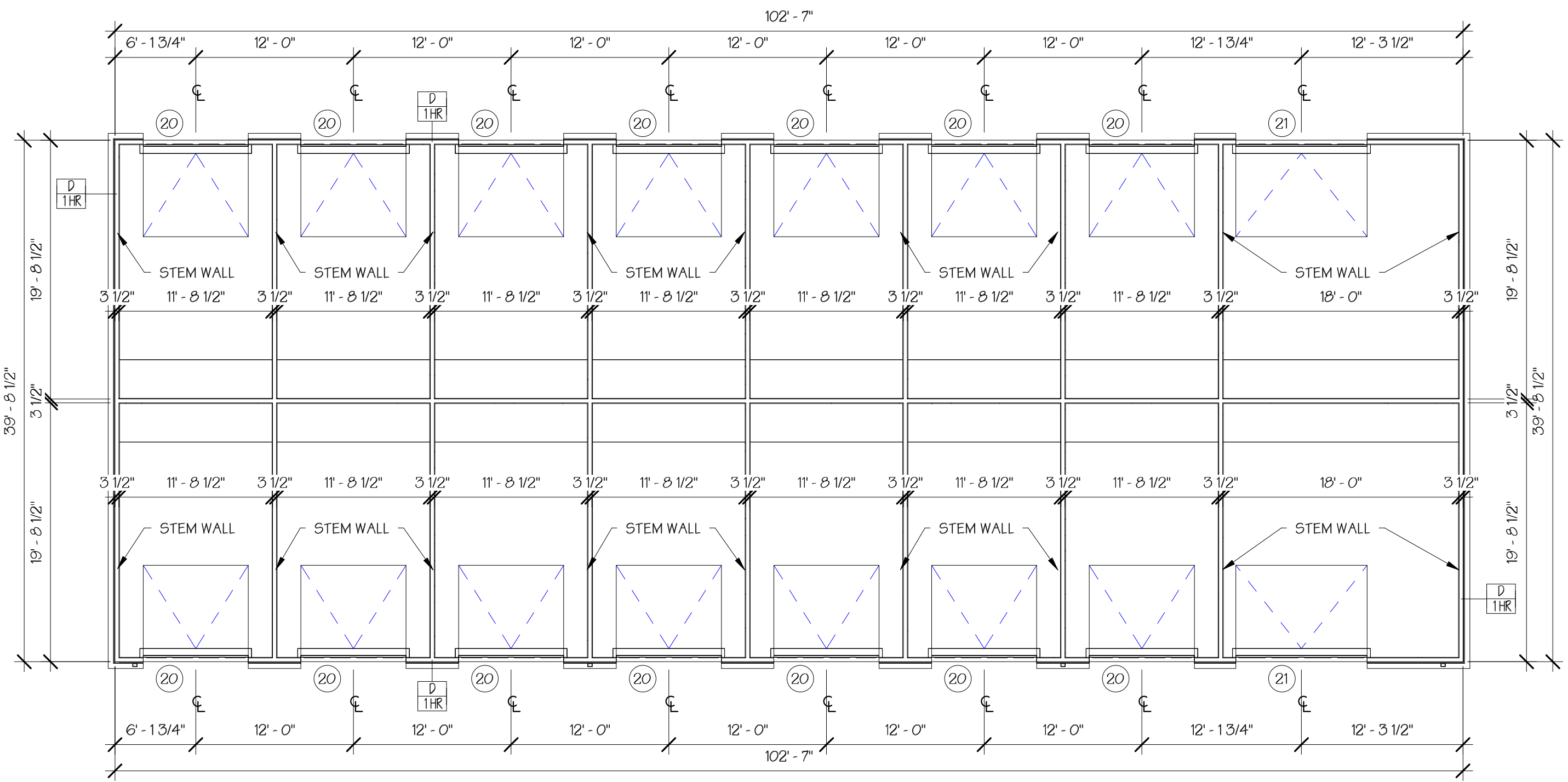
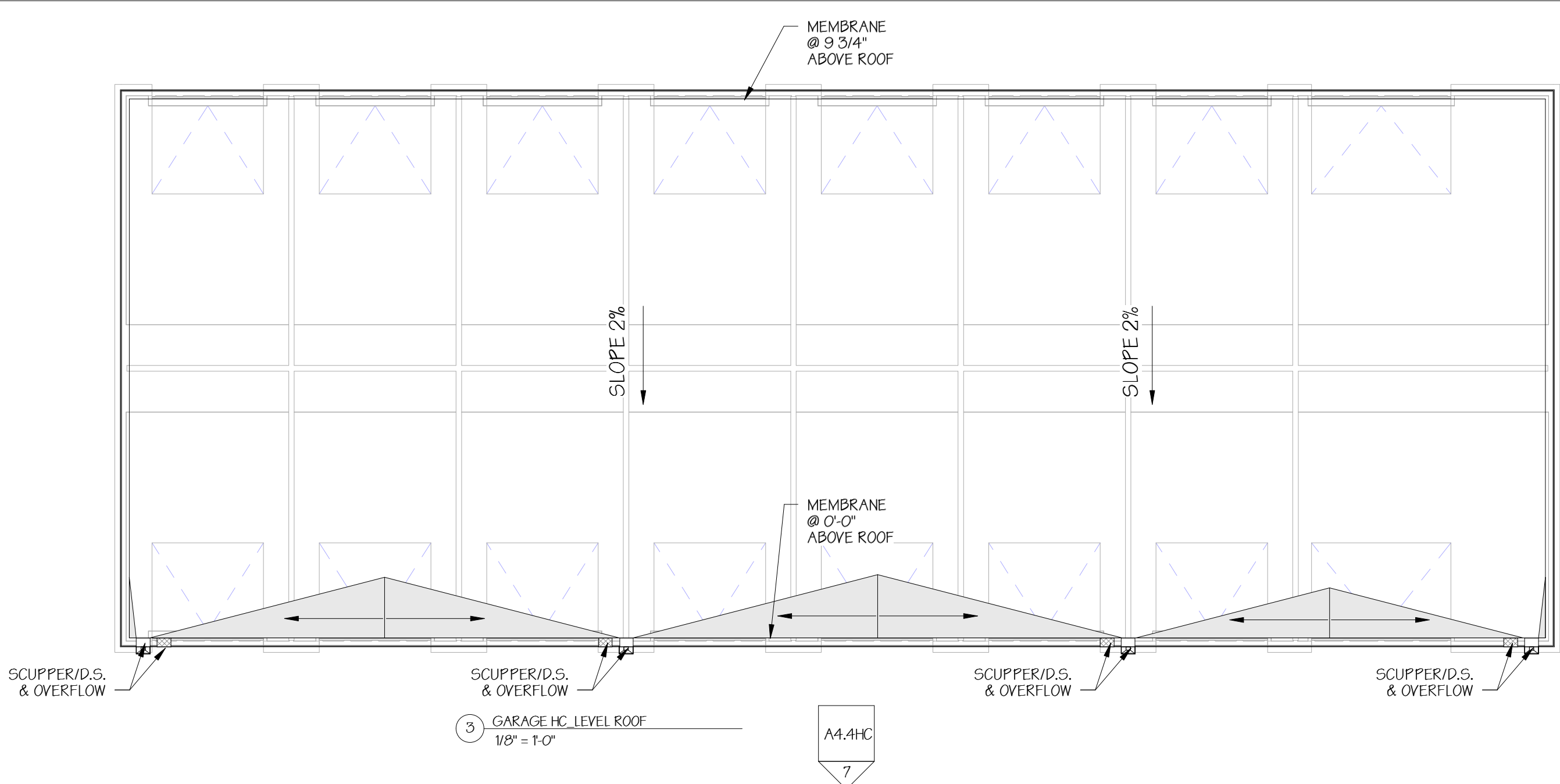
MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

No.	Revision	Date
1		
2		
3		
4		
5		
ISSUED FOR PERMIT		
06-10-2019		
ISSUED FOR BID		
ISSUED FOR CONSTRUCTION		
DWG NAME		
DATE		
06/10/19		
DESCRIPTION		
GARAGE TYP. PLANS & ELEVATIONS		
SHEET		
A4.4		

ROOF DRAINAGE CALC. GARAGE HC						
BLDG AREA	AREA (SQ. FT.)	REQUIRED DRAINAGE OPENING SIZE	DRAINAGE OPENINGS PROVIDED		DOWNSPOUT DIMENSIONS	SCUPPER DIMENSIONS
			QTY. & SIZE			
A	747	4 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"
B	1404	4 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"
C	635	4 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"

A	B	B	C
---	---	---	---



MATERIAL PATTERN LEGEND	
01	STUCCO (COLOR 1)
02	LAP SIDING 1 (8\"/>
03	LAP SIDING 2 (6\"/>
04	B&B SIDING
05	STONE
06	STANDING SEAM ROOF
07	COLUMN

ADDRESS NUMBERS AT LEAST 8\"/>

FORMING PLAN LEGEND	
	FINISHED FLOOR LEVEL
	FLAT SURFACE B.F.F.
	SLOPED SURFACE
	LEAVE OUT FOR TUB
	5-1/2\"/>

DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
05/23/19
EXP: 11/30/19

LDG DEVELOPEMENT

1469 SOUTH FOURTH STREET, LOUISVILLE, KY 40208, (P) 502.609.4940

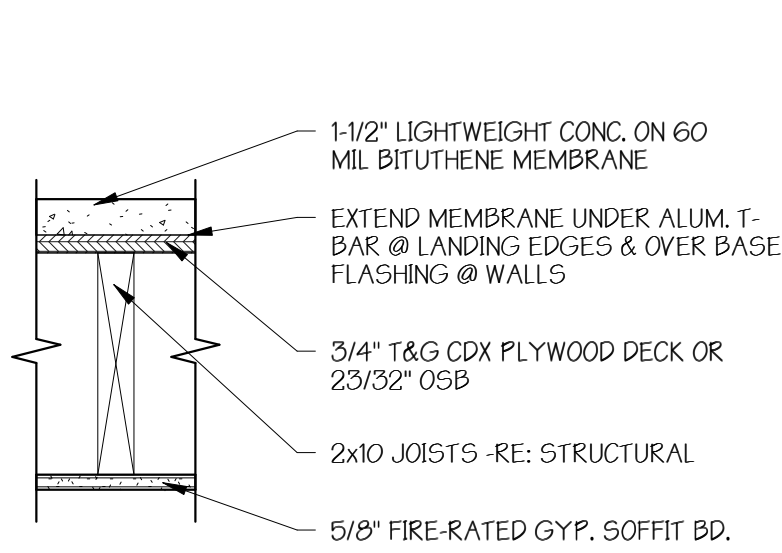
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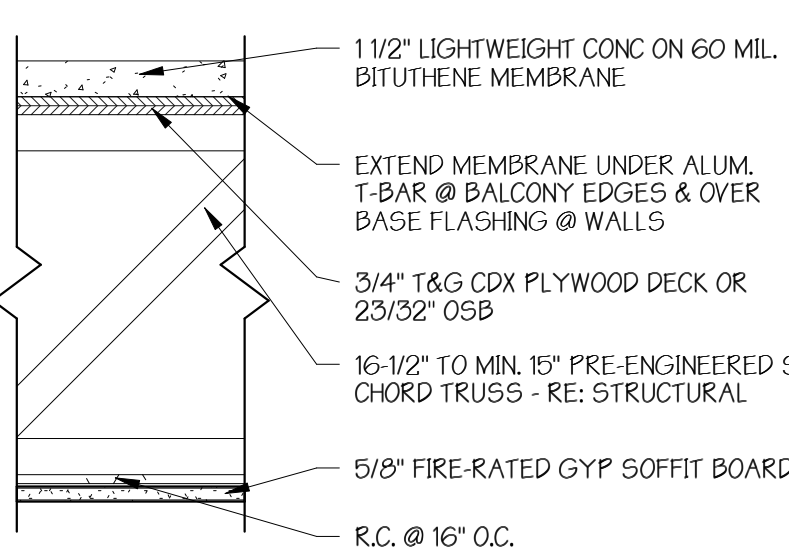
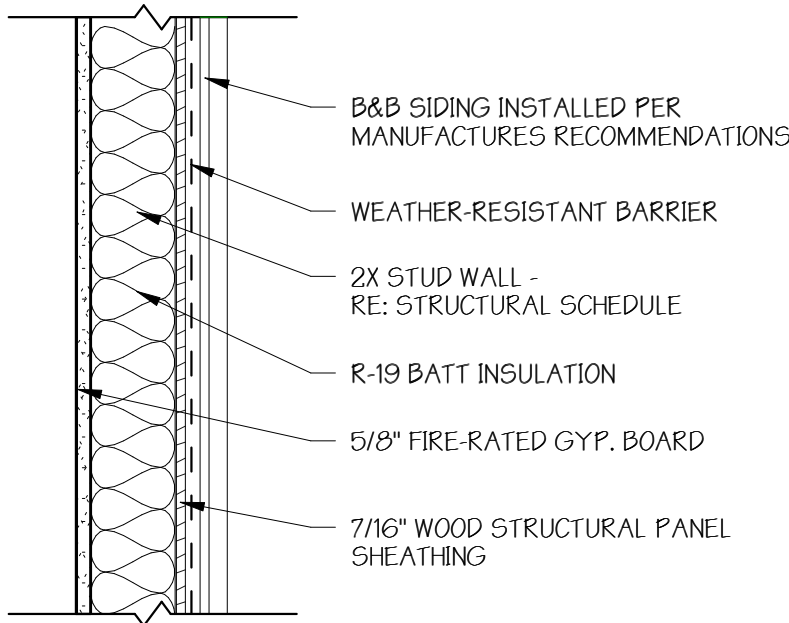
MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

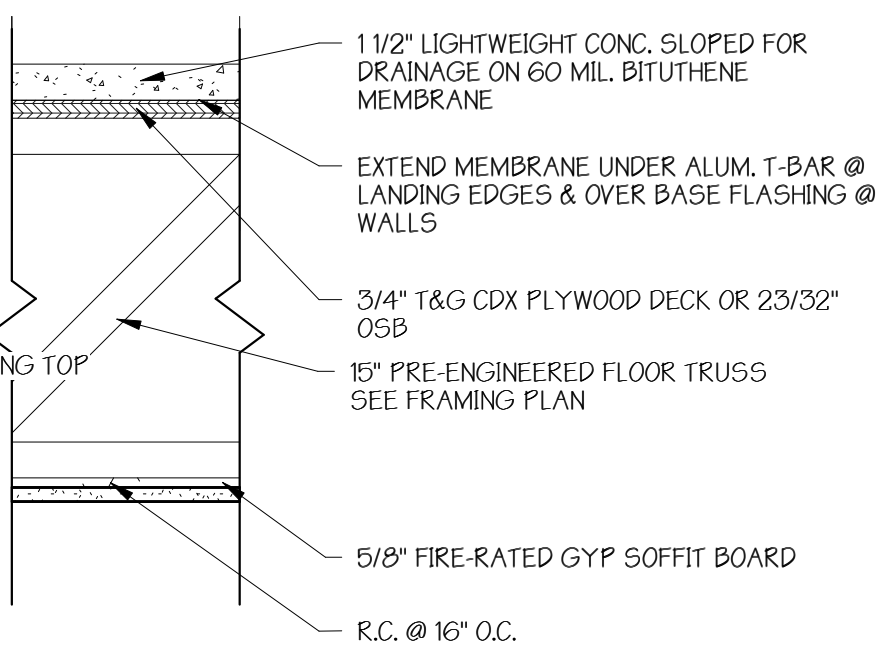
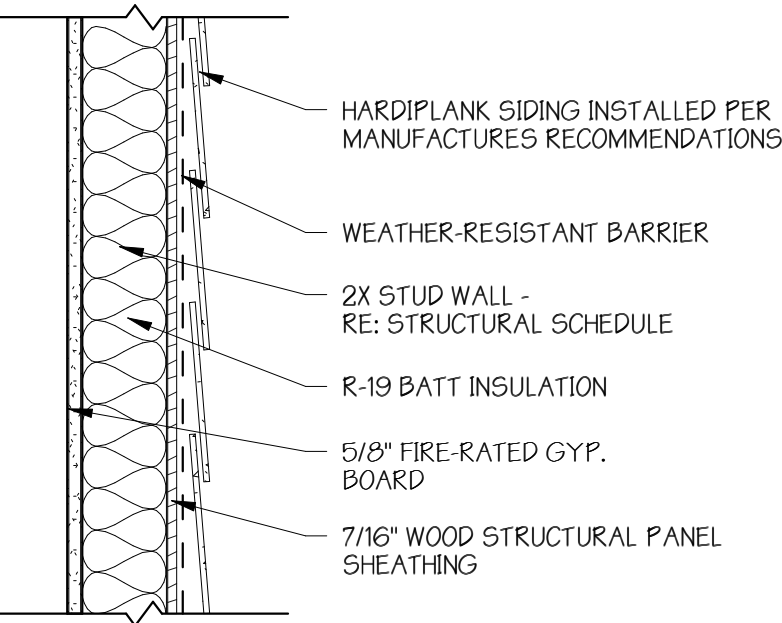
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06-10-2019		
ISSUED FOR BID		
ISSUED FOR CONSTRUCTION		
DWG NAME		
DATE		
06/07/19		
DESCRIPTION		
GARAGE HC PLANS & ELEVATIONS		
SHEET		
A4.4HC		



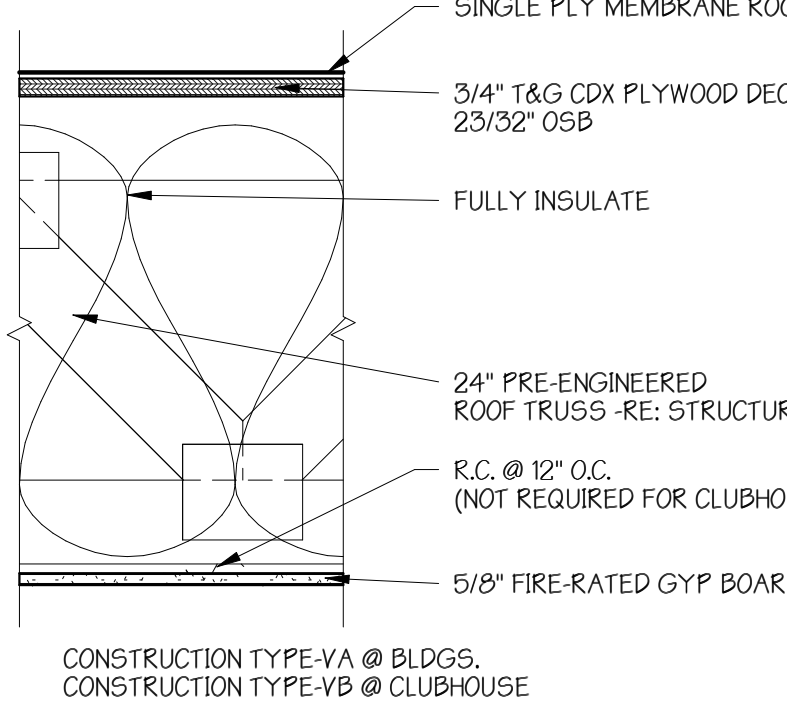
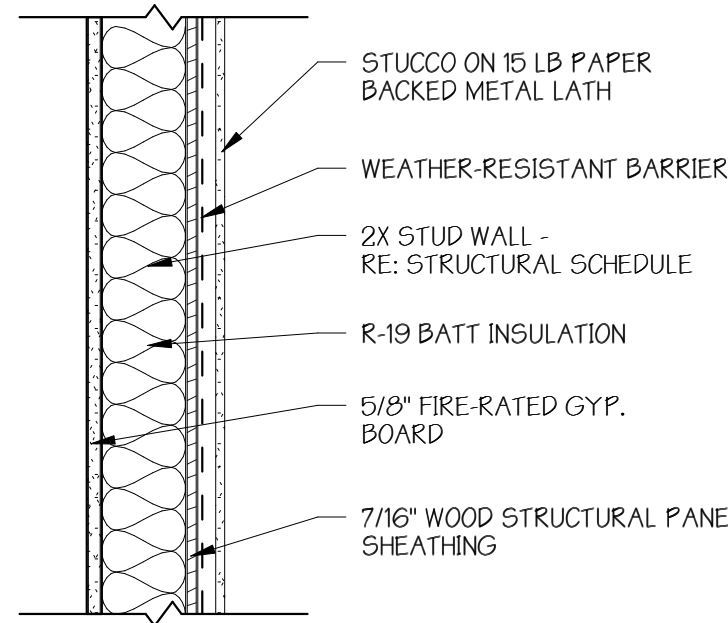
6 TYP. STAIR LANDING ASSEMBLY
UL-L512 1 1/2" 1 HOUR



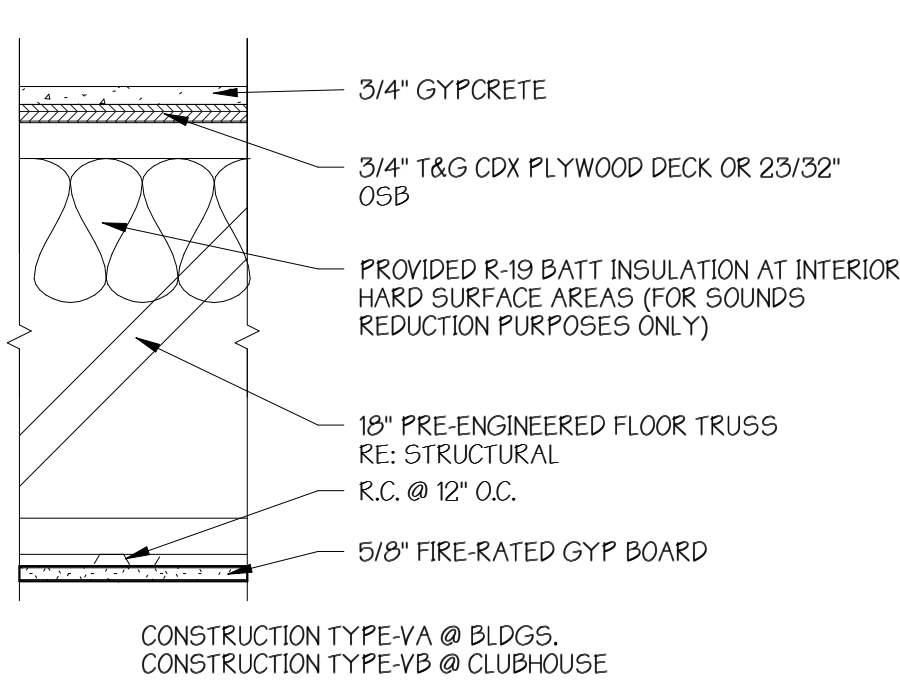
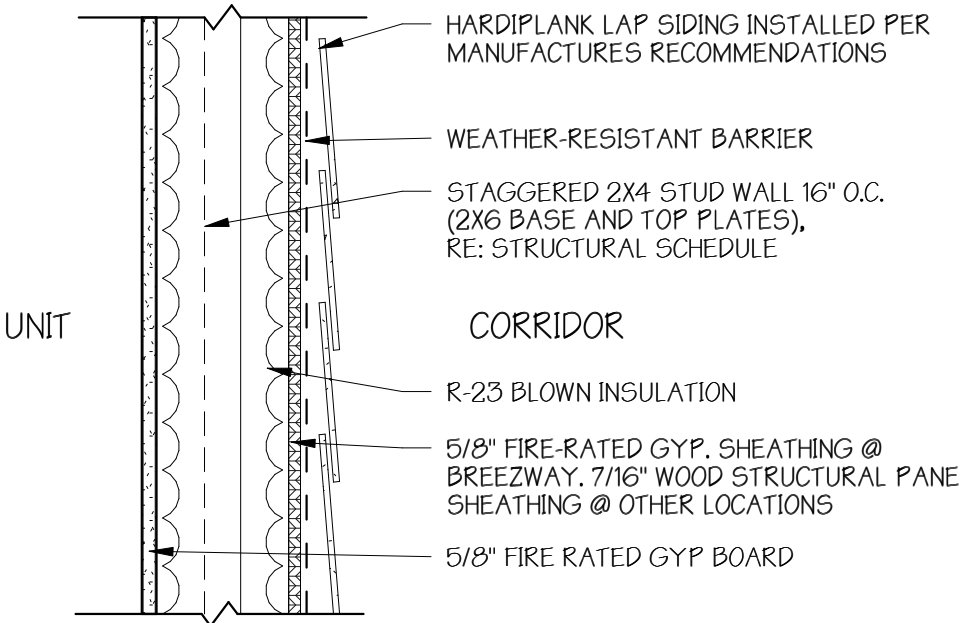
5 TYP. EXTERIOR FLOOR/CEILING ASSEMBLY
UL-L528 BALCONIES 1 1/2" 1 HOUR



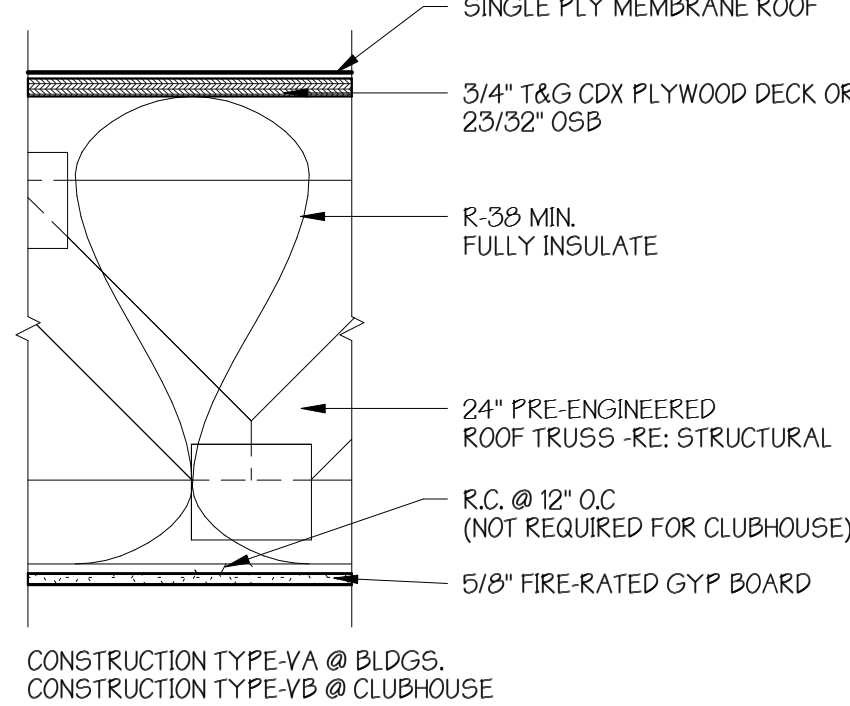
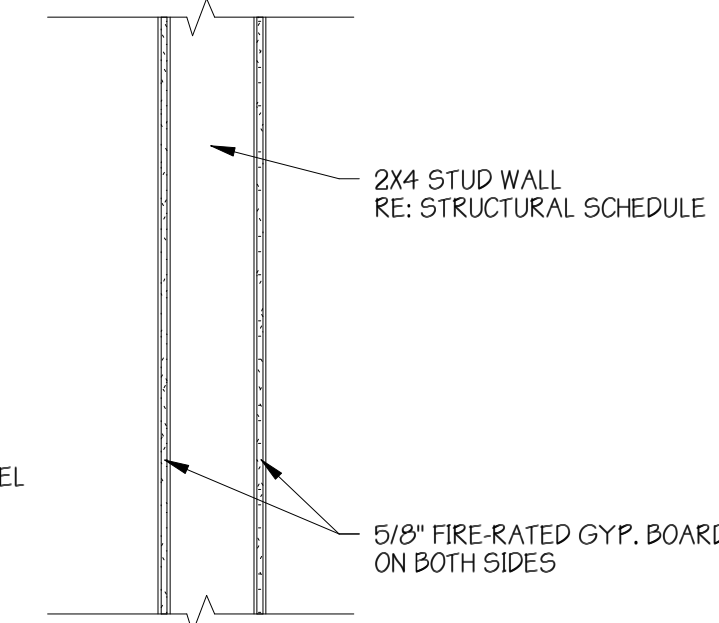
4 TYP. EXTERIOR FLOOR/CEILING ASSEMBLY
UL-L528 CORRIDORS 1 1/2" 1 HOUR



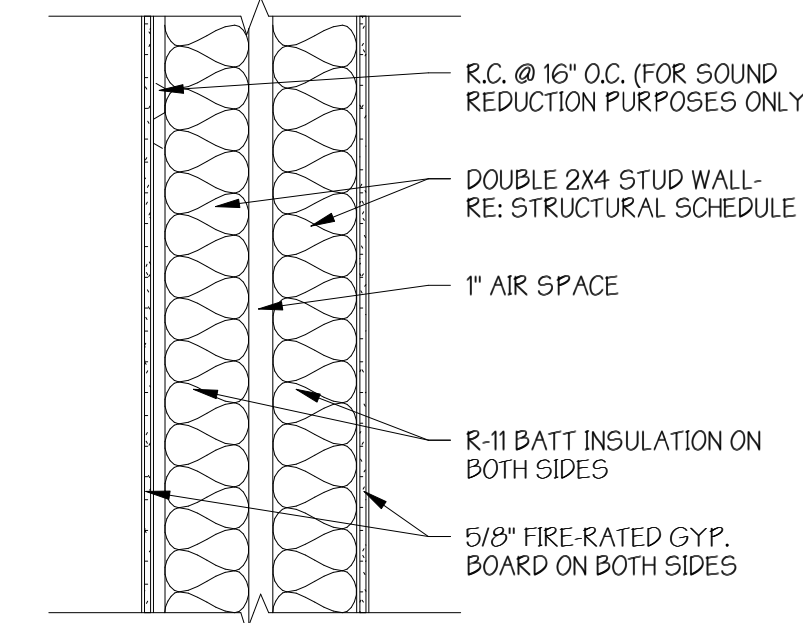
3 EXTERIOR ROOF/CEILING ASSEMBLY
UL-P522 1 1/2" 1 HOUR



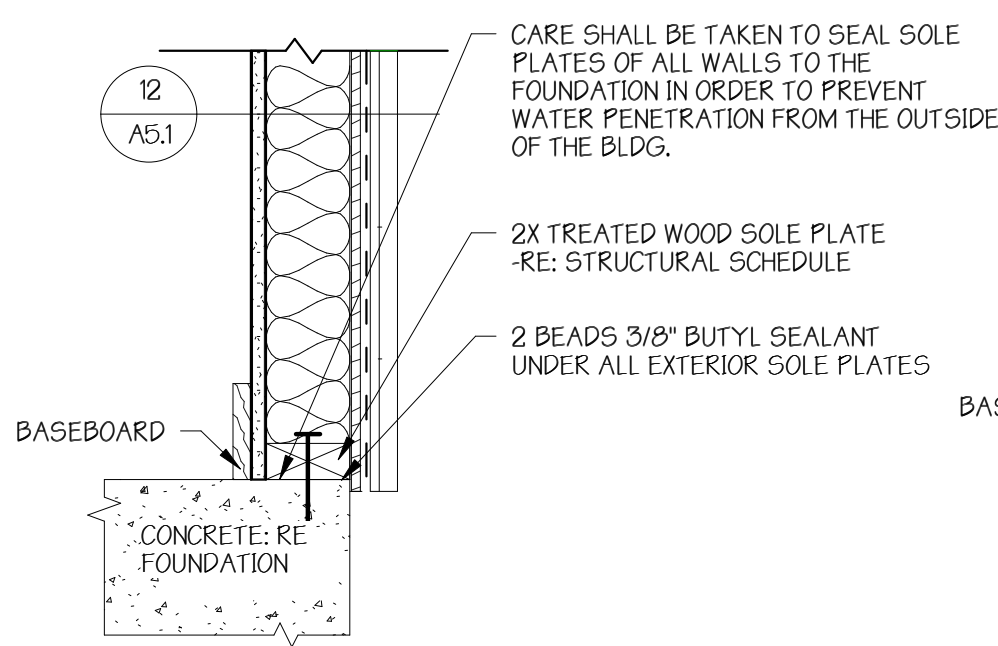
2 TYP. INTERIOR FLOOR/CEILING ASSEMBLY
UL-L52155 STC IIC APARTMENT UNITS 1 1/2" 1 HOUR



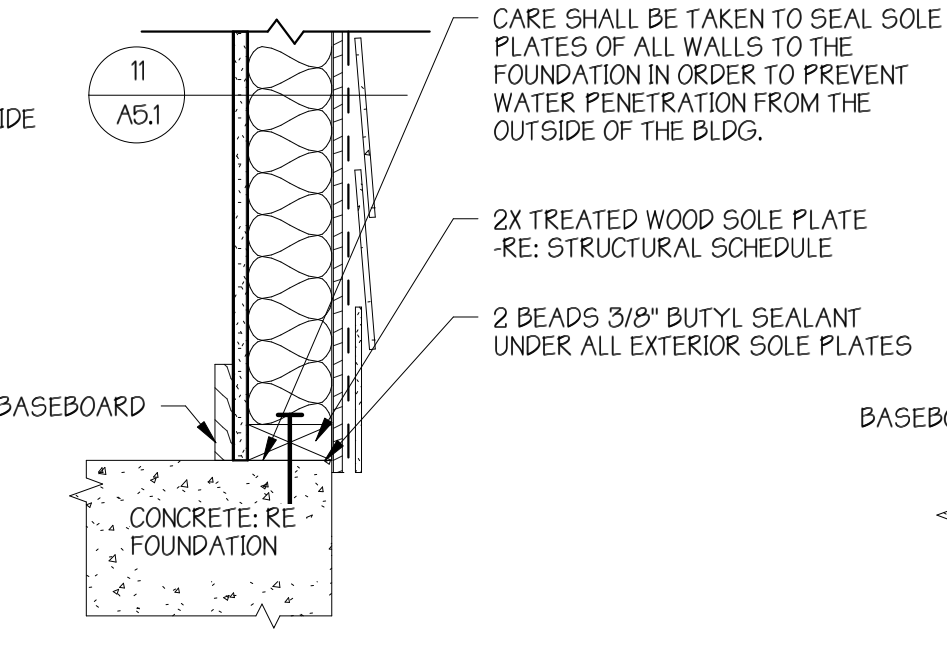
1 INTERIOR ROOF/CEILING ASSEMBLY
UL-P522 1 1/2" 1 HOUR



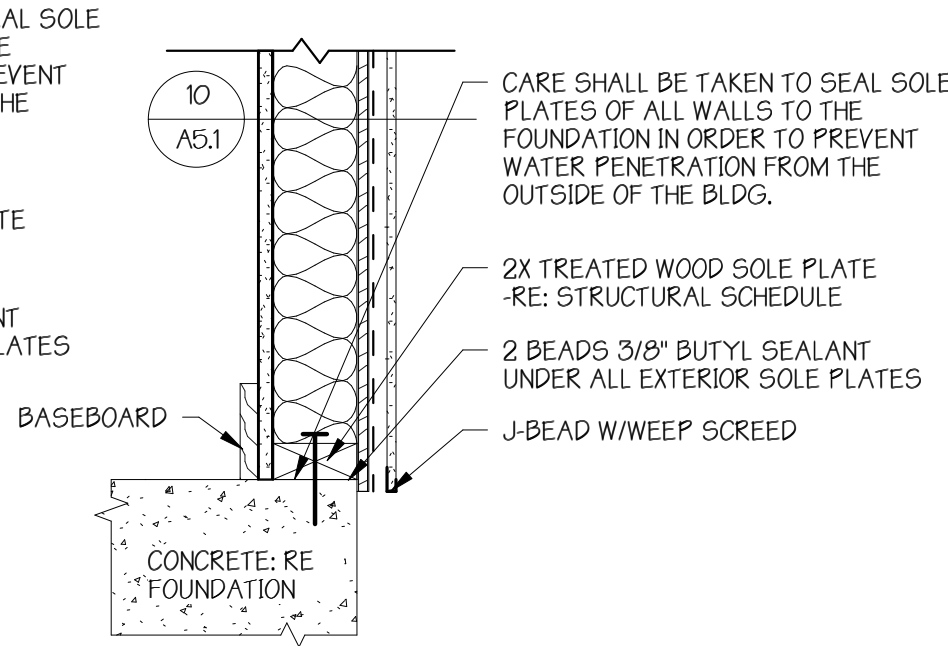
12 BOARD & BATTEN SIDING WALL ASSEMBLY (D)
UL-U356 STC 35 TO 39 1 1/2" 1 HOUR



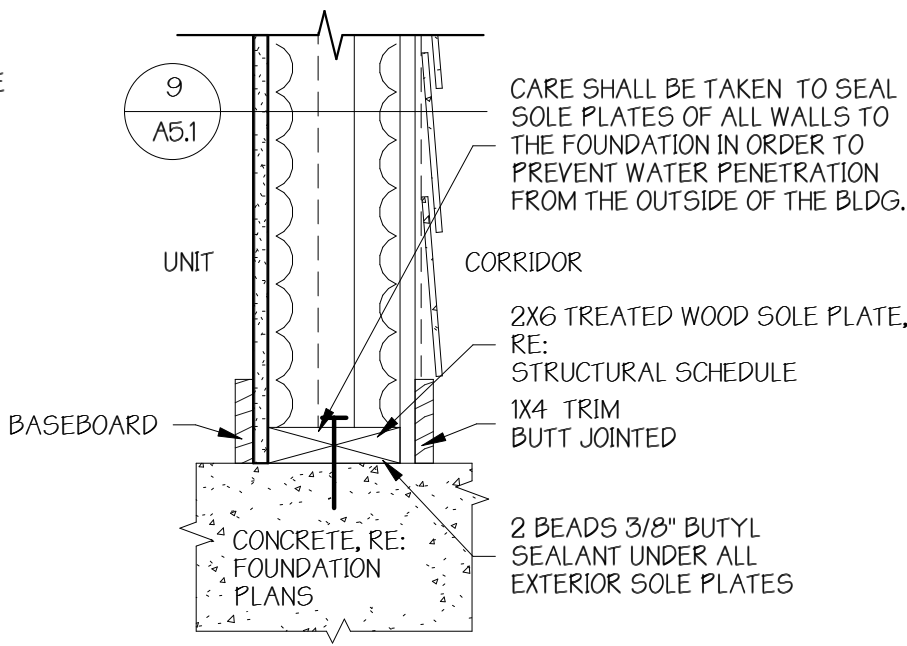
11 HARDIPLANK SIDING WALL ASSEMBLY (D)
UL-U356 STC 35 TO 39 1 1/2" 1 HOUR



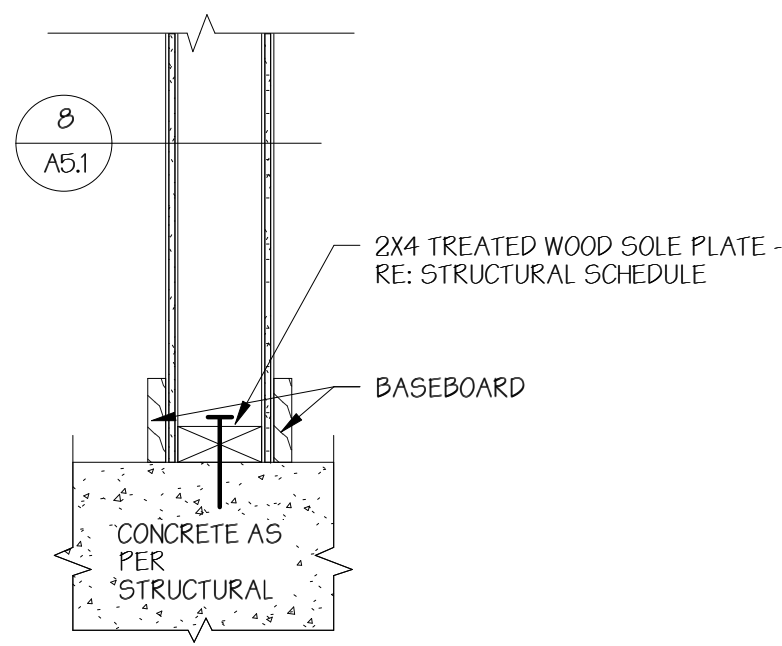
10 STUCCO WALL ASSEMBLY (D)
UL-U356 1 1/2" 1 HOUR



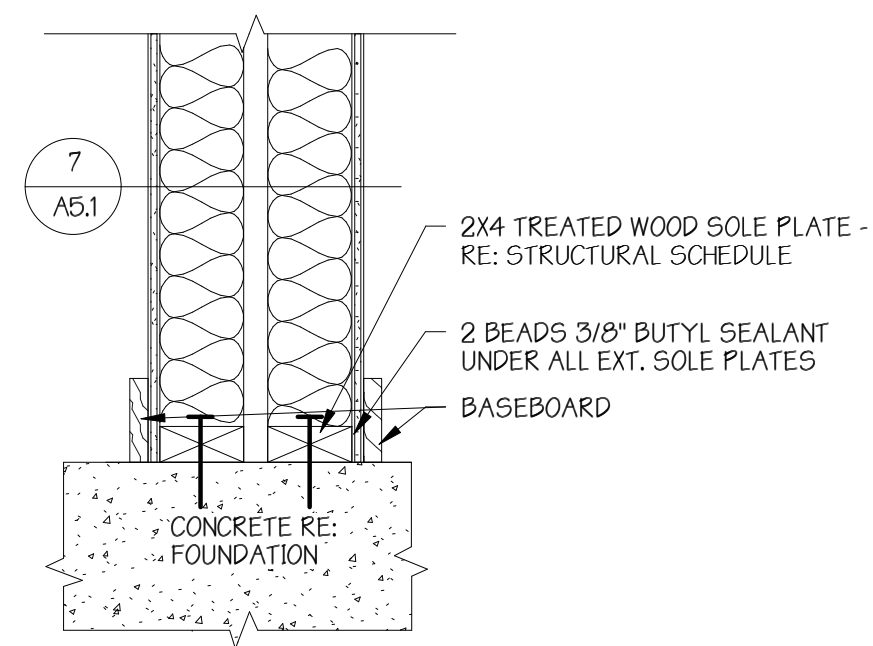
9 TYP. CORRIDOR WALL ASSEMBLY (C)
UL-U340 1 1/2" 1 HOUR



8 TYP. PARTITION WALL ASSEMBLY (B)
UL-U305 1 1/2" 1 HOUR



7 TYP. TENANT SEPARATION WALL ASSEMBLY (A)
UL-U341 1 1/2" 1 HOUR



18 SOLE PLATE @ B&B SIDING WALL 1 1/2"

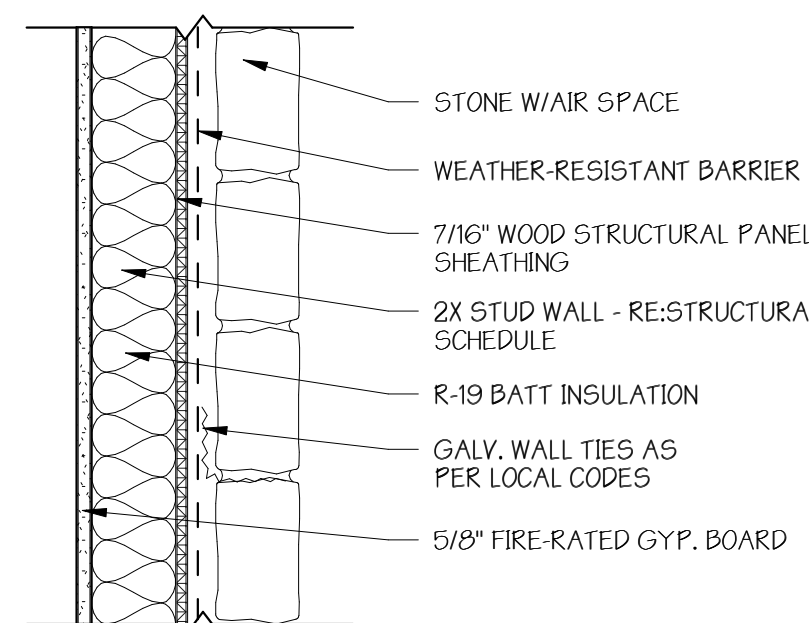
17 SOLE PLATE @HARDIPLANK SIDING WALL 1 1/2"

16 SOLE PLATE @ STUCCO WALL 1 1/2"

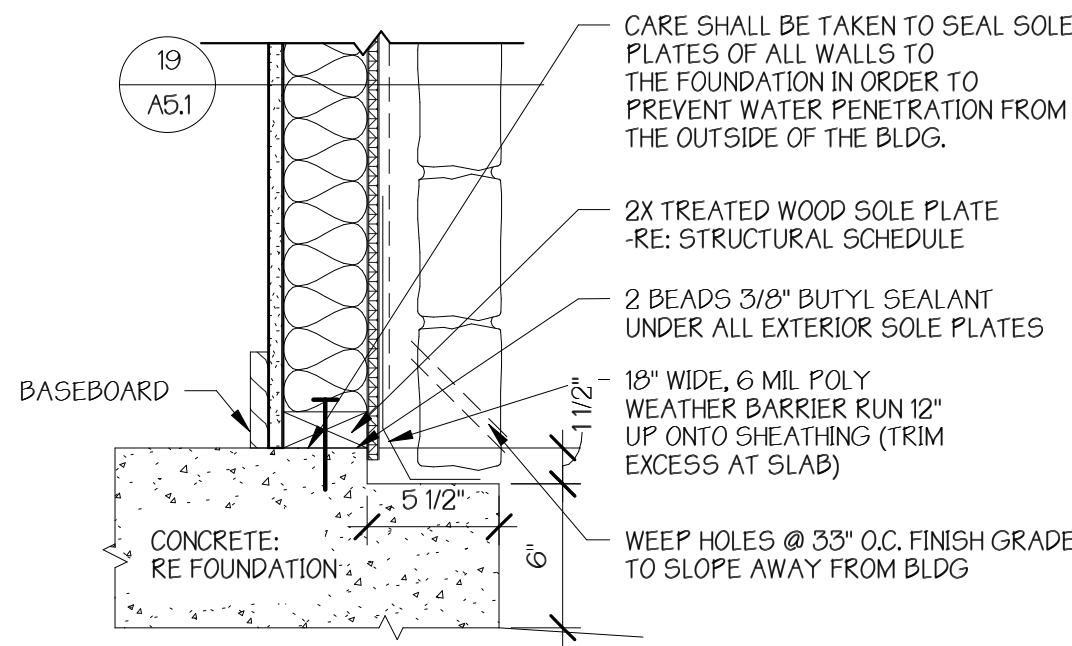
15 SOLE PLATE @ CORRIDOR WALL
UL-U340 1 1/2" 1/2 HOUR

14 SOLE PLATE @PARTITION WALL 1 1/2"

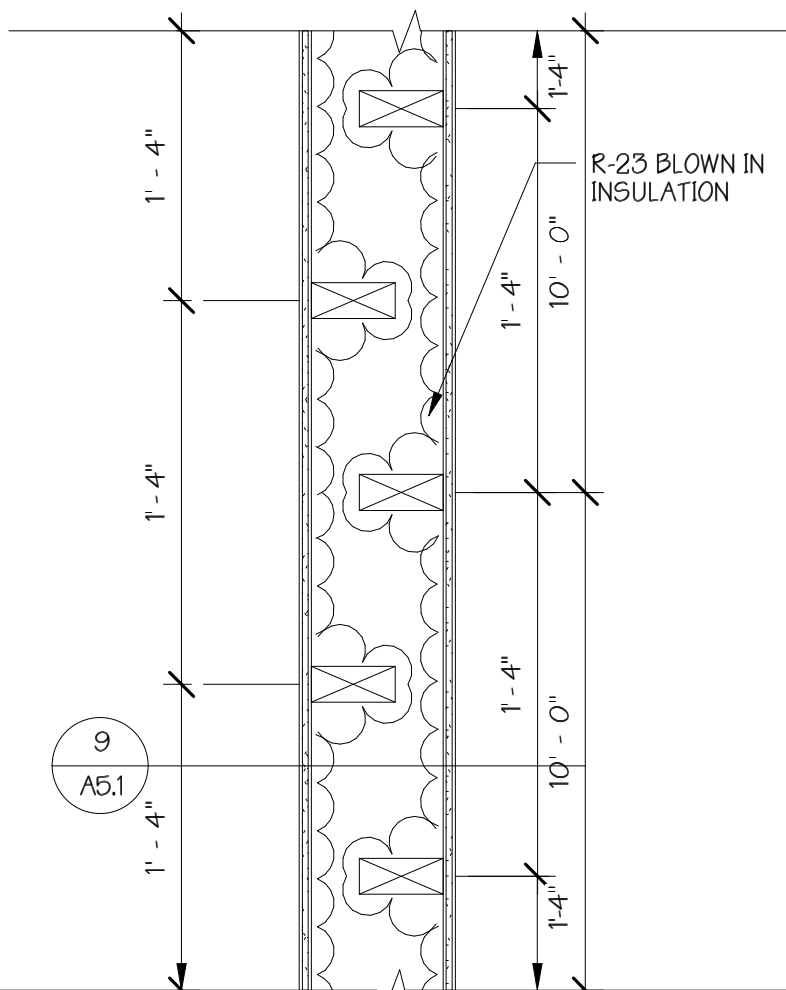
13 SOLE PLATE @TENANT SEPARATION WALL 1 1/2"



19 TYP. STONE WALL ASSEMBLY (D)
UL-U356 STC 35 TO 39 1 1/2" 1 HOUR



25 SOLE PLATE @ STONE WALL
UL-U356 STC 35 TO 39 1 1/2" 1 HOUR



21 CORRIDOR WALL W/ STAGGERED STUDS 1 1/2"

DRAWN BY: DPF, MAR
CHECKED BY: JMK
PROJECT #: 18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
05/23/19 EXP: 11/30/19

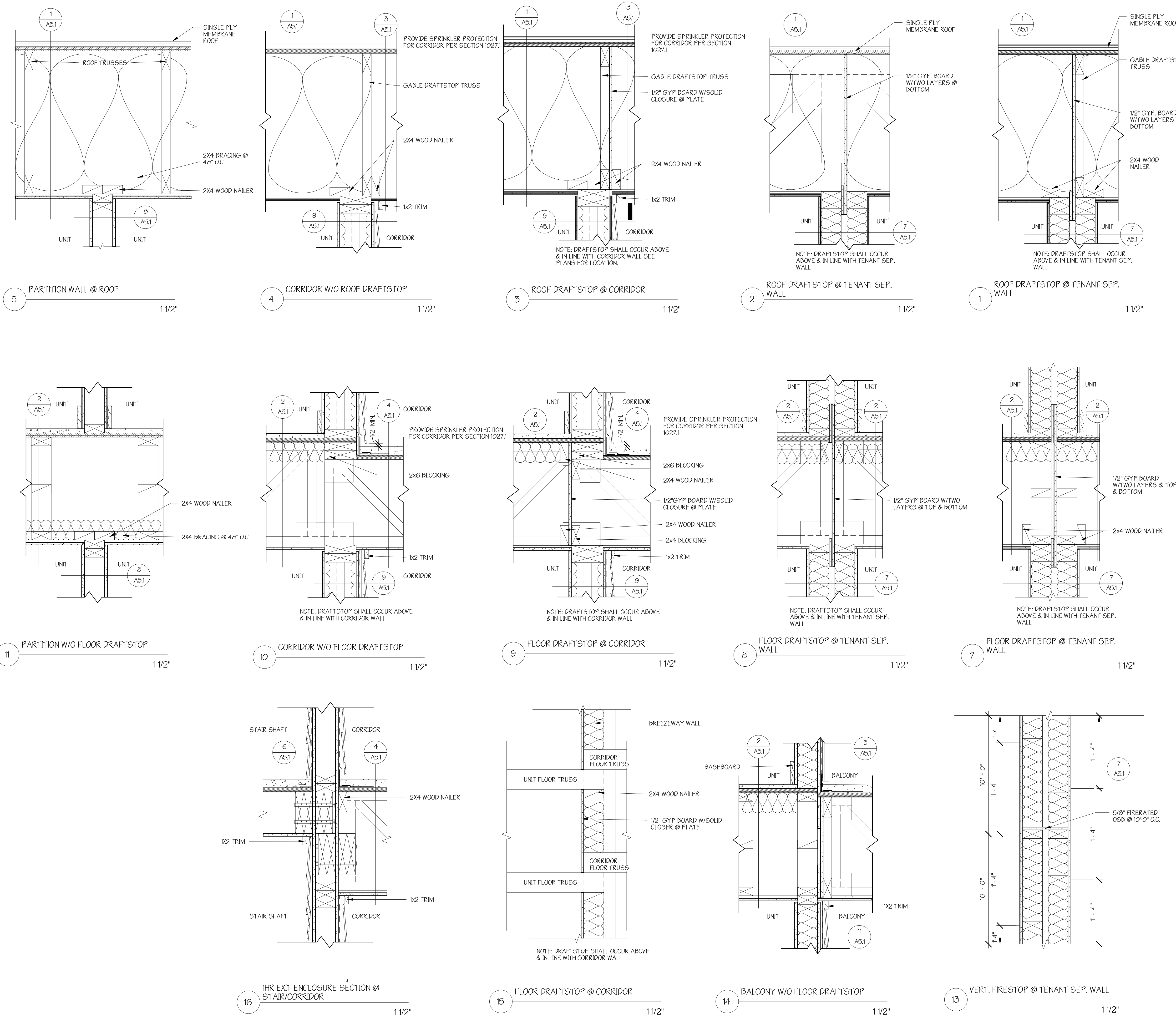
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MOONLIGHT GARDEN
8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

No.	Revision	Date
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ISSUED FOR PERMIT		
06-10-2019		
ISSUED FOR BID		
ISSUED FOR CONSTRUCTION		
DWG NAME		
DATE		
07-31-2018		
DESCRIPTION		
ASSEMBLY DETAILS		
SHEET		
A5.1		



DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

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8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

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06-10-2019

ISSUED FOR BID

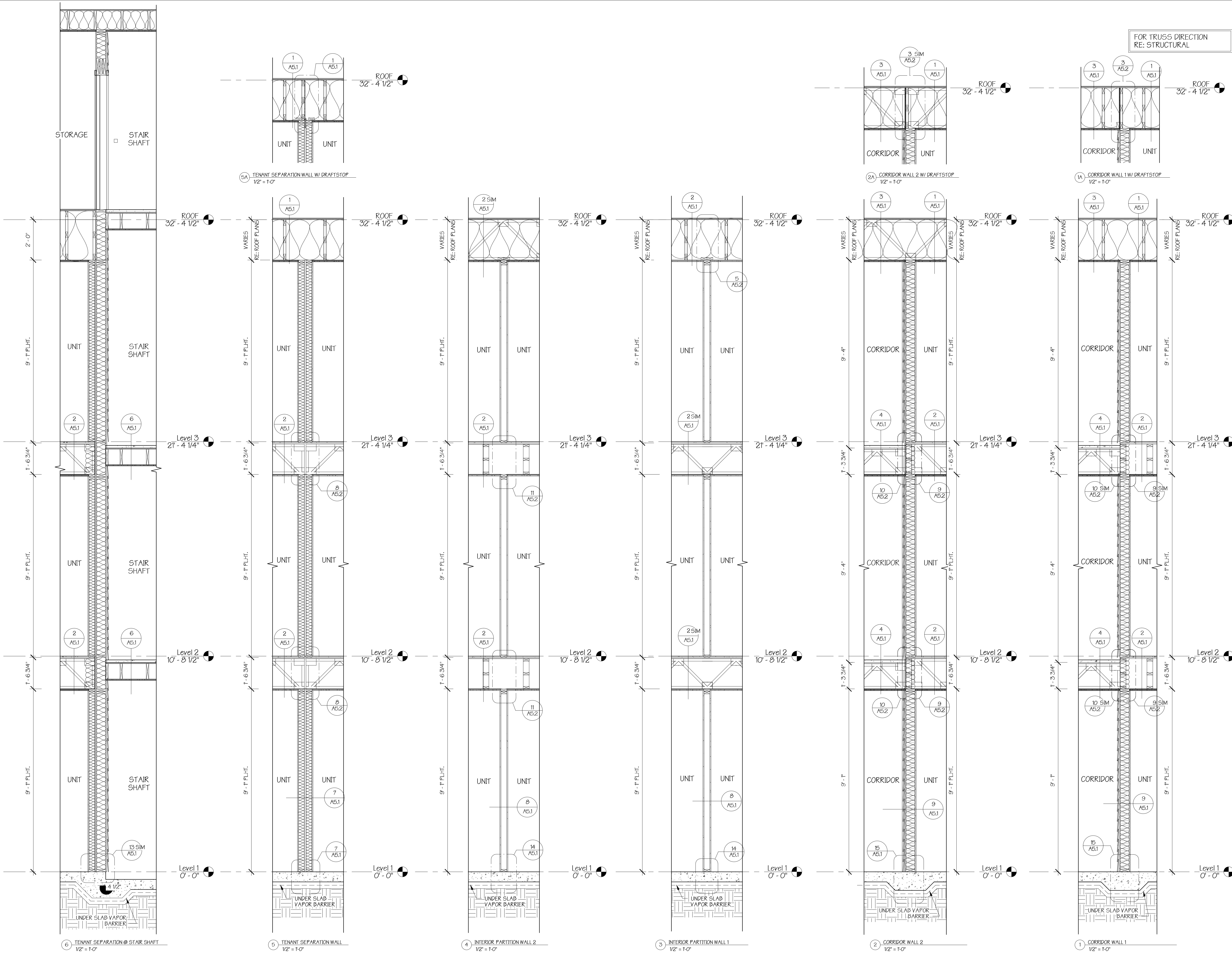
ISSUED FOR CONSTRUCTION

DWG NAME

DATE
07-31-2019

DESCRIPTION
DRAFTSTOP DETAILS

SHEET
A5.2



DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
05/23/19
EXP: 11/30/19

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ISSUED FOR PERMIT
06-10-2019

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ISSUED FOR CONSTRUCTION

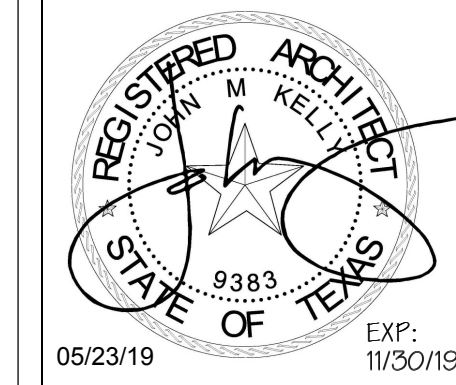
DWG NAME

DATE
04/25/19

DESCRIPTION
INTERIOR WALL SECTIONS

SHEET
A5.3

DRAWN BY:	DPF, MAR
CHECKED BY:	JMK
PROJECT #:	18-2325



LDG DEVELOPEMENT

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STREET, LOUISVILLE, KY
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DATE

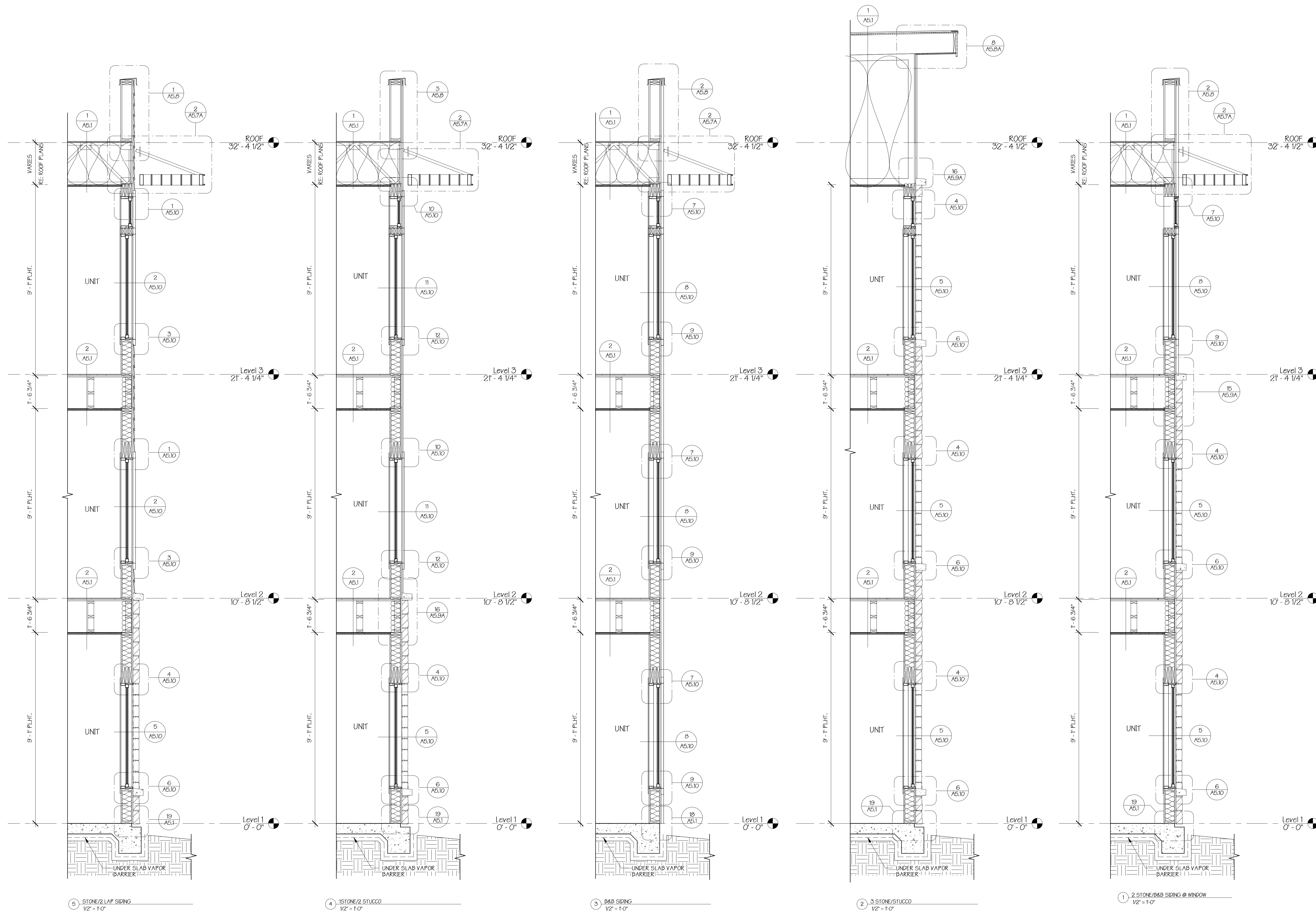
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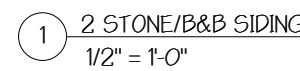
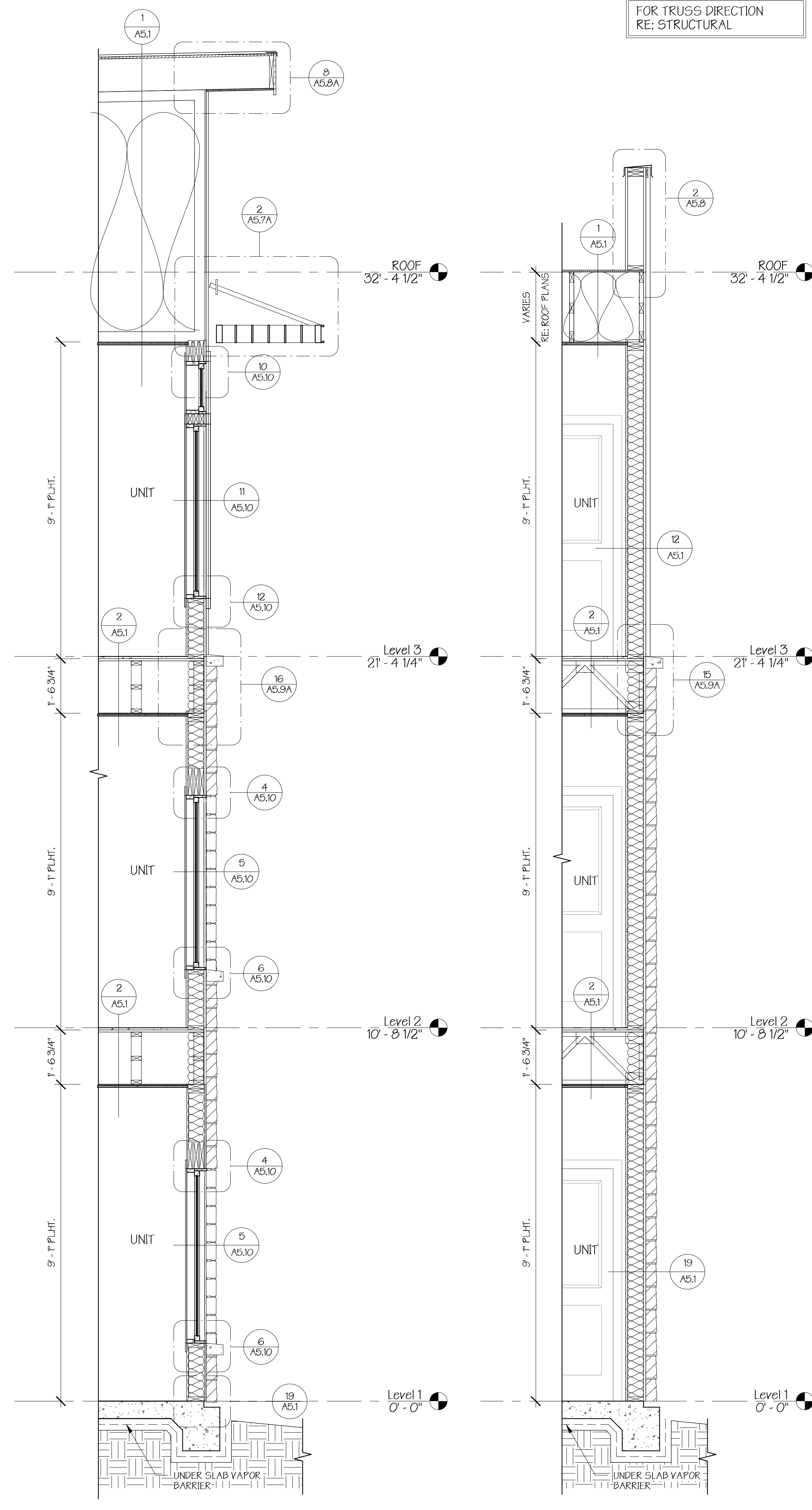
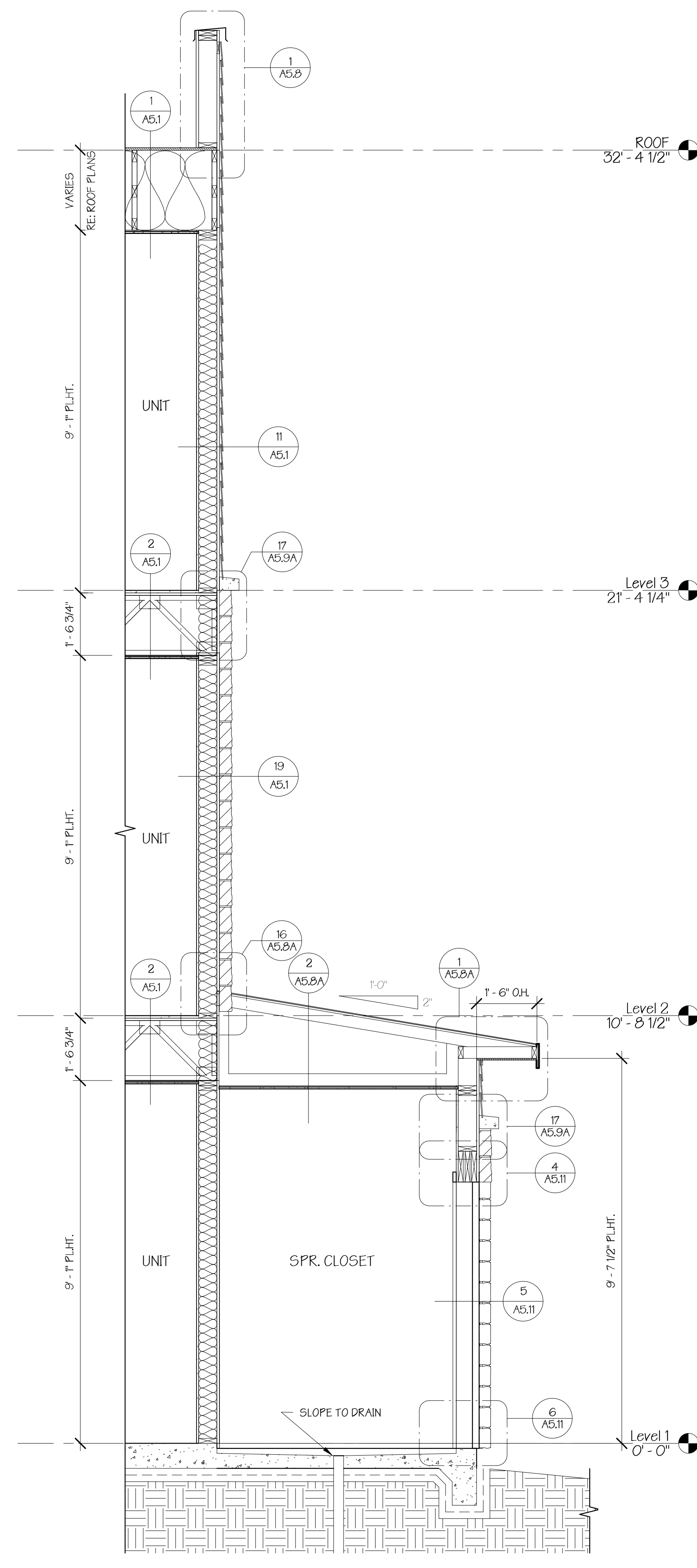
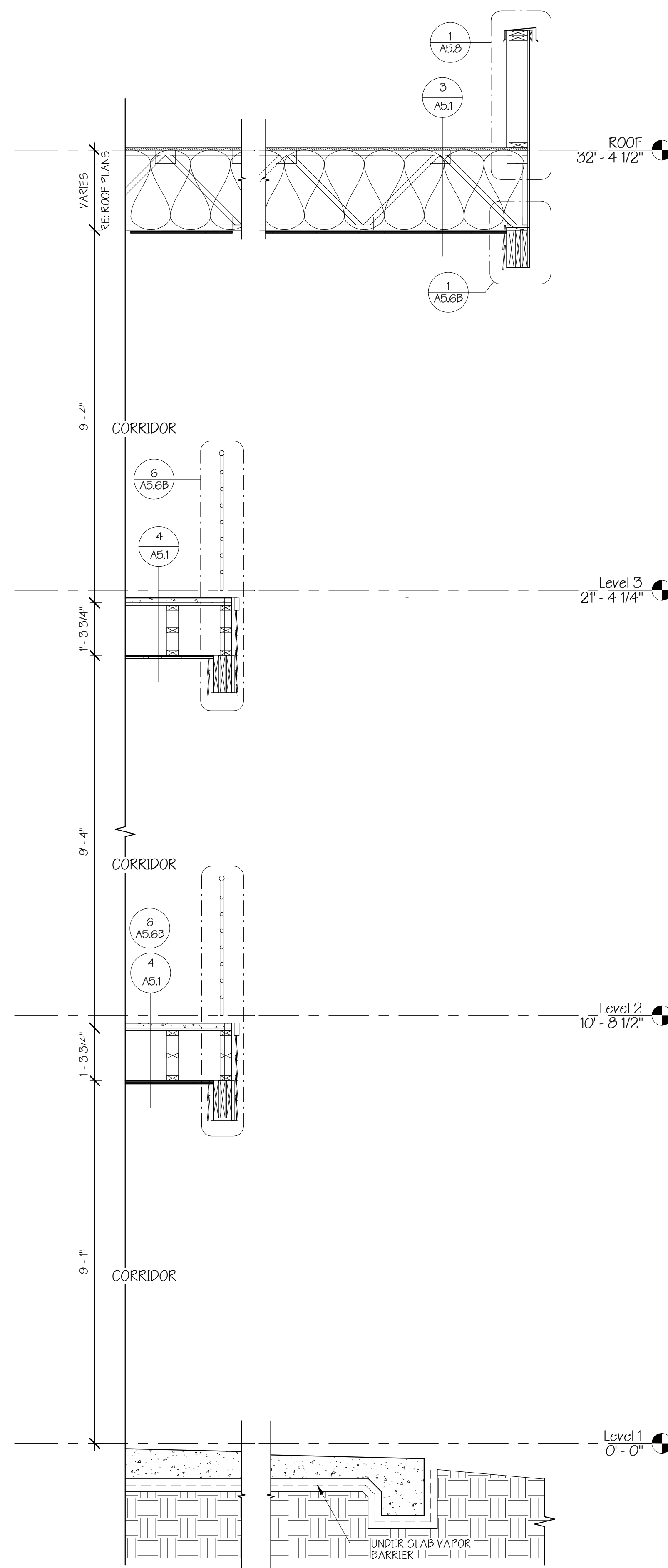
DESCRIPTION

EXTERIOR WALL SECTIONS

SHEET

A5.4





FOR TRUSS DIRECTION
RE: STRUCTURAL

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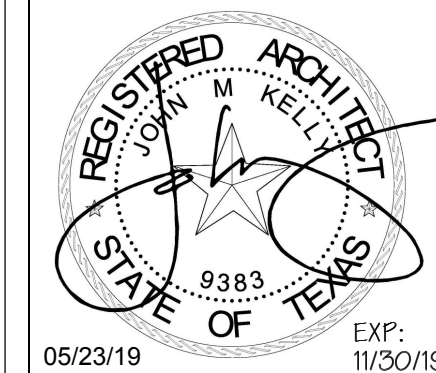
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MOONLIGHT GARDEN

3901 NUCKOLS CROSSING RD, AUSTIN TX
78747

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ISSUED FOR CONSTRUCTION

DWG NAME

DATE _____

05/16/19

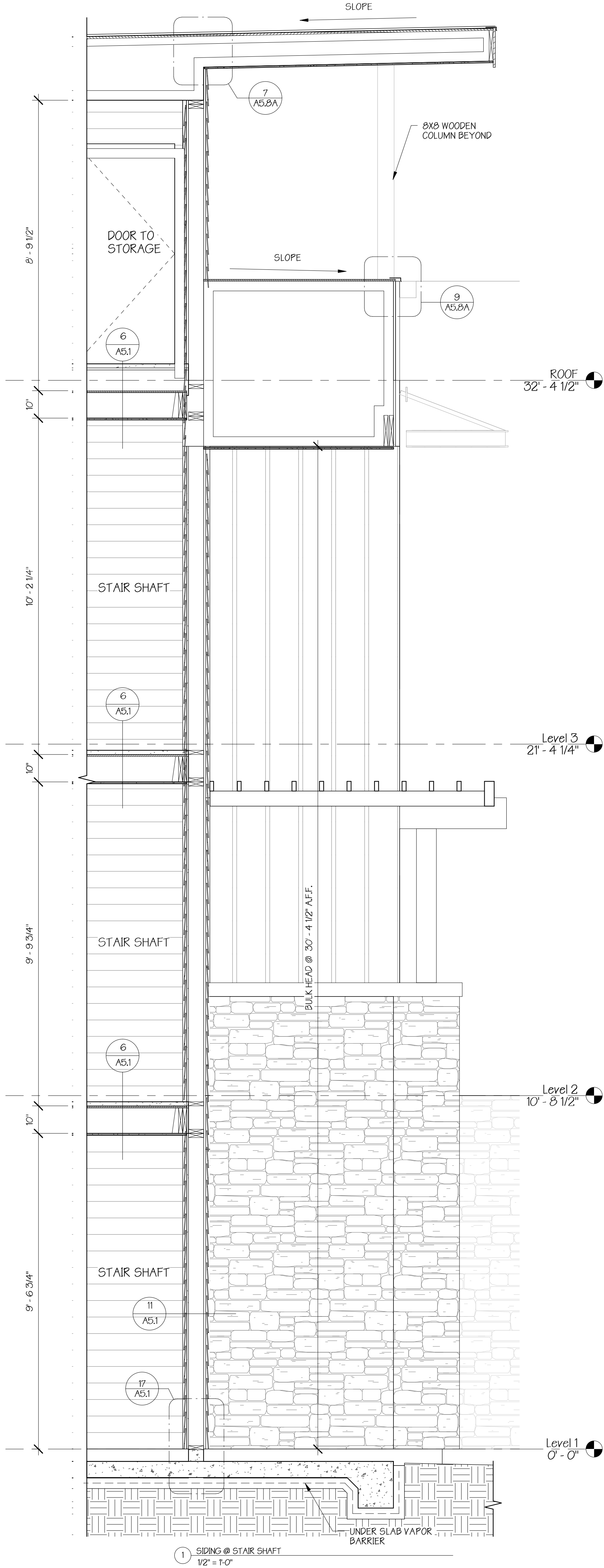
DESCRIPTION

EXTERIOR WALL SECTIONS

SHEE

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DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

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LDG DEVELOPEMENT

1469 SOUTH FOURTH
STREET, LOUISVILLE, KY
40208,
(P) 502.609.4940

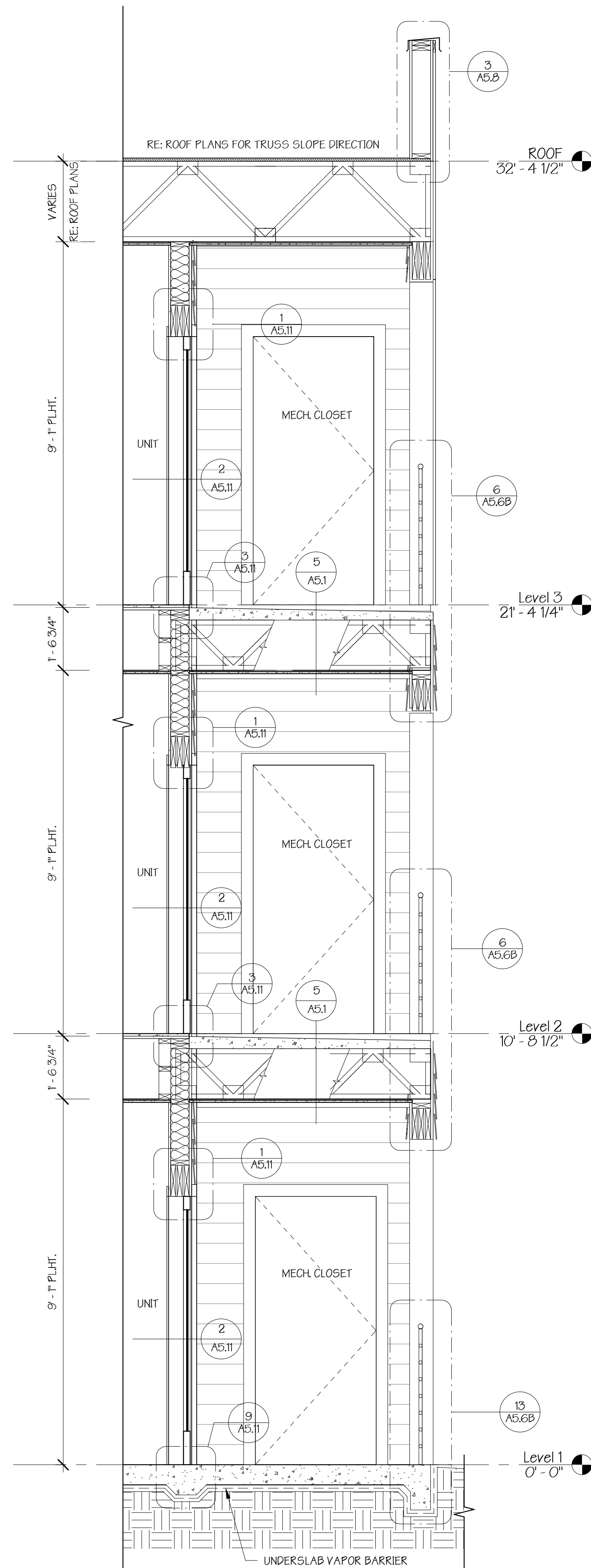
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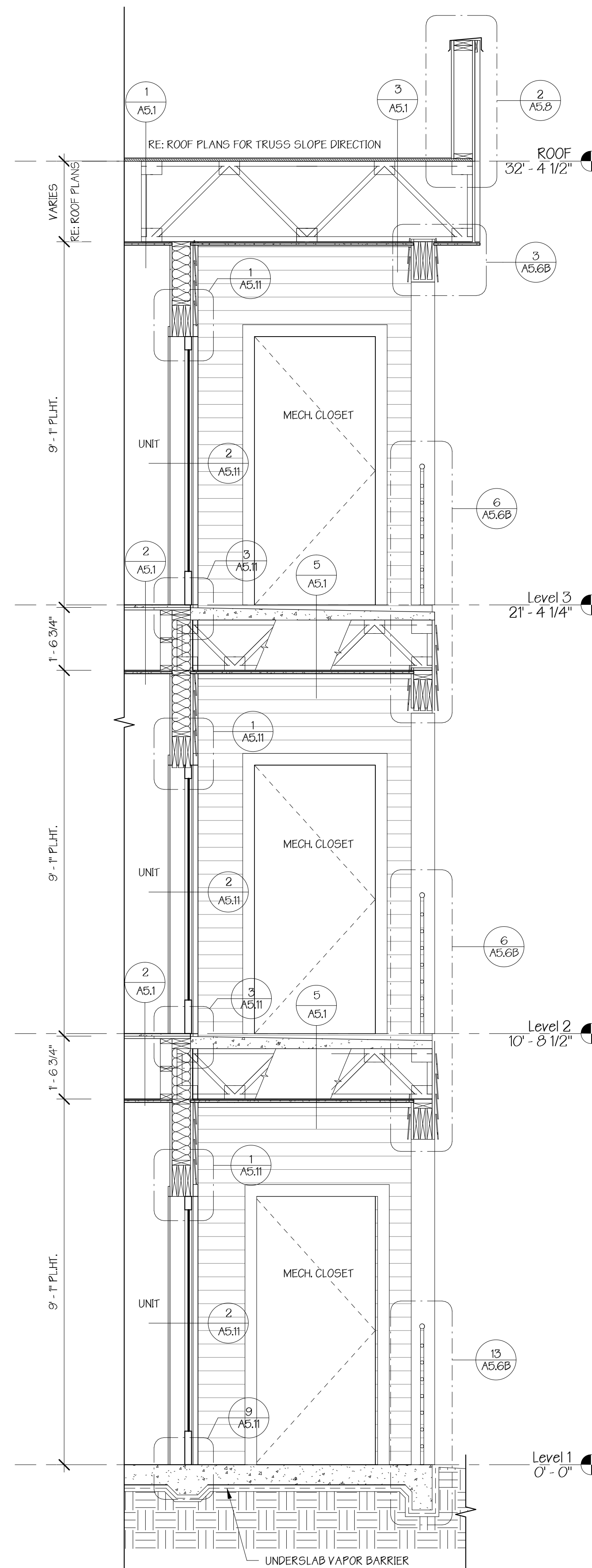
MOONLIGHT GARDEN

8901 NUCKOLLS CROSSING RD, AUSTIN TX
78747

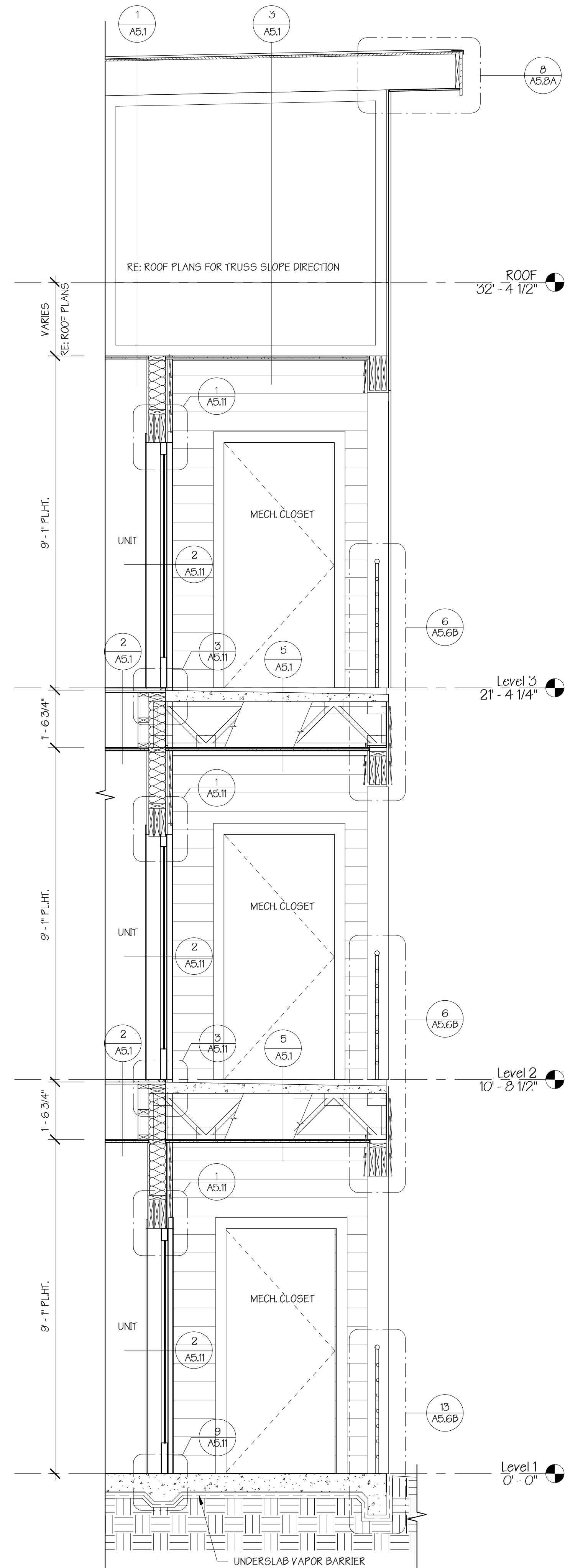
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EXTERIOR WALL SECTIONS		
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3 BALCONY SECTION TYP.
1/2" = 1'-0"



2 BALCONY SECTION W/ BULK HEAD @ LEVEL 3
1/2" = 1'-0"



1 BALCONY SECTION W/ TOWER ELEMENT
1/2" = 1'-0"

DRAWN BY:
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MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
05/23/19
EXP: 11/30/19

LDG DEVELOPEMENT

1469 SOUTH FOURTH
STREET, LOUISVILLE, KY
40208,
(P) 502.609.4940

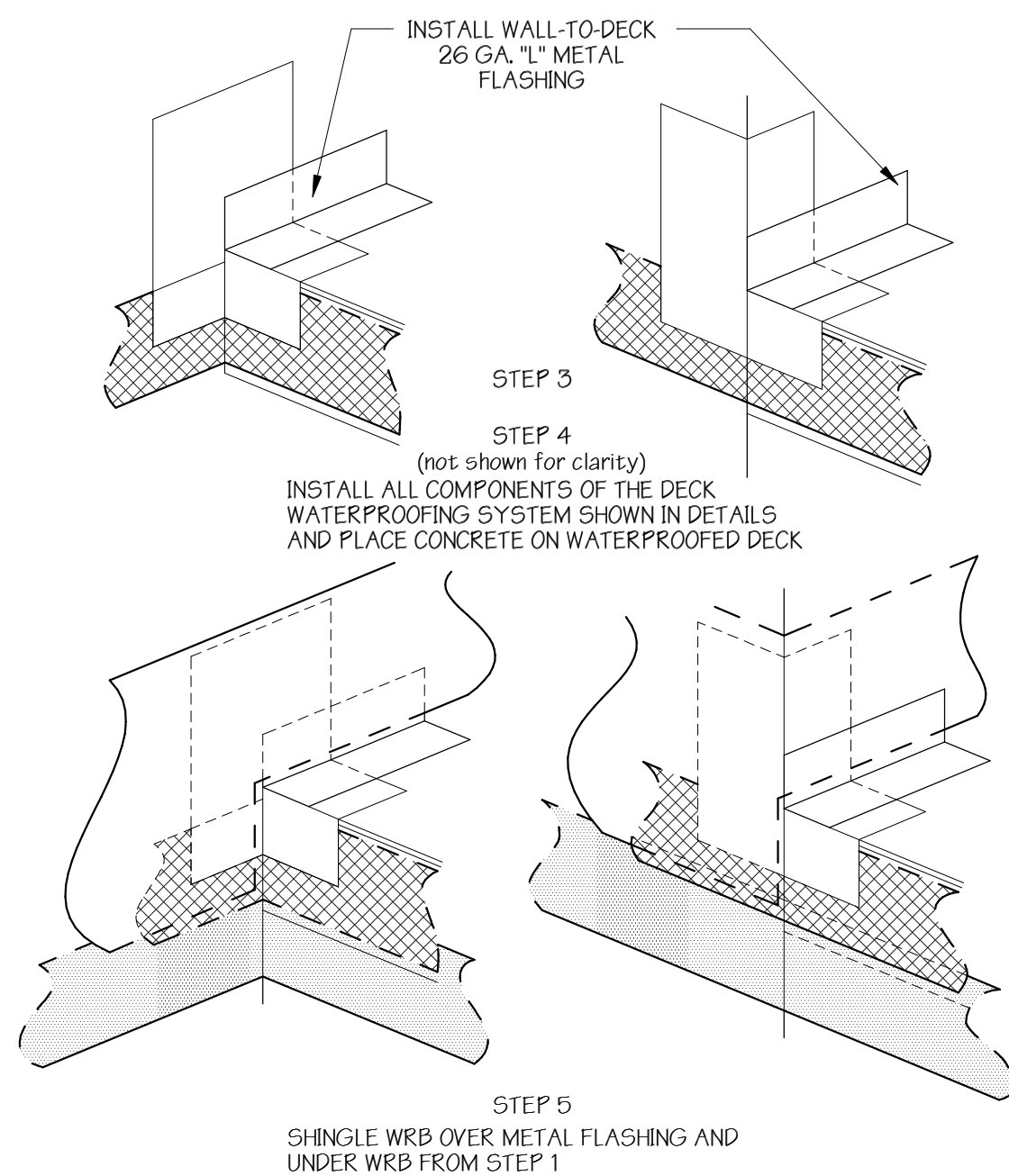
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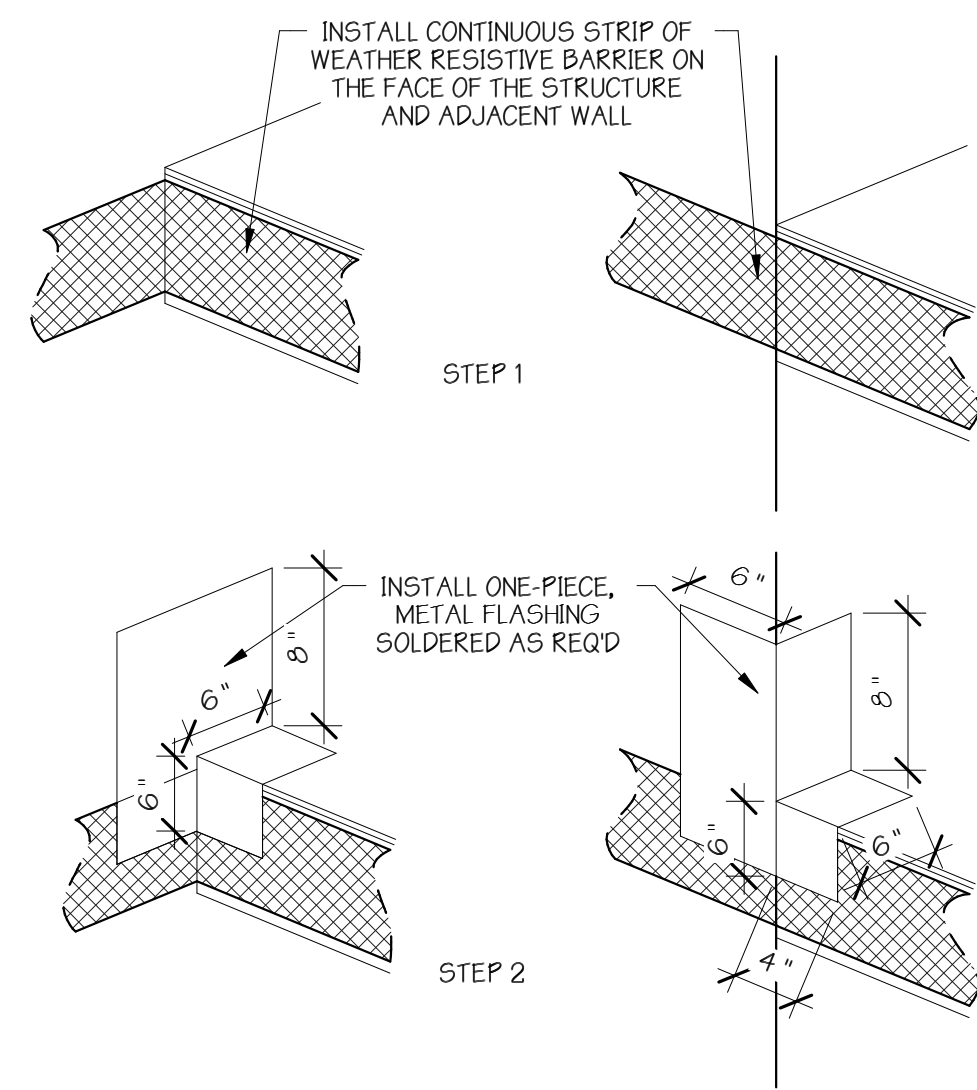
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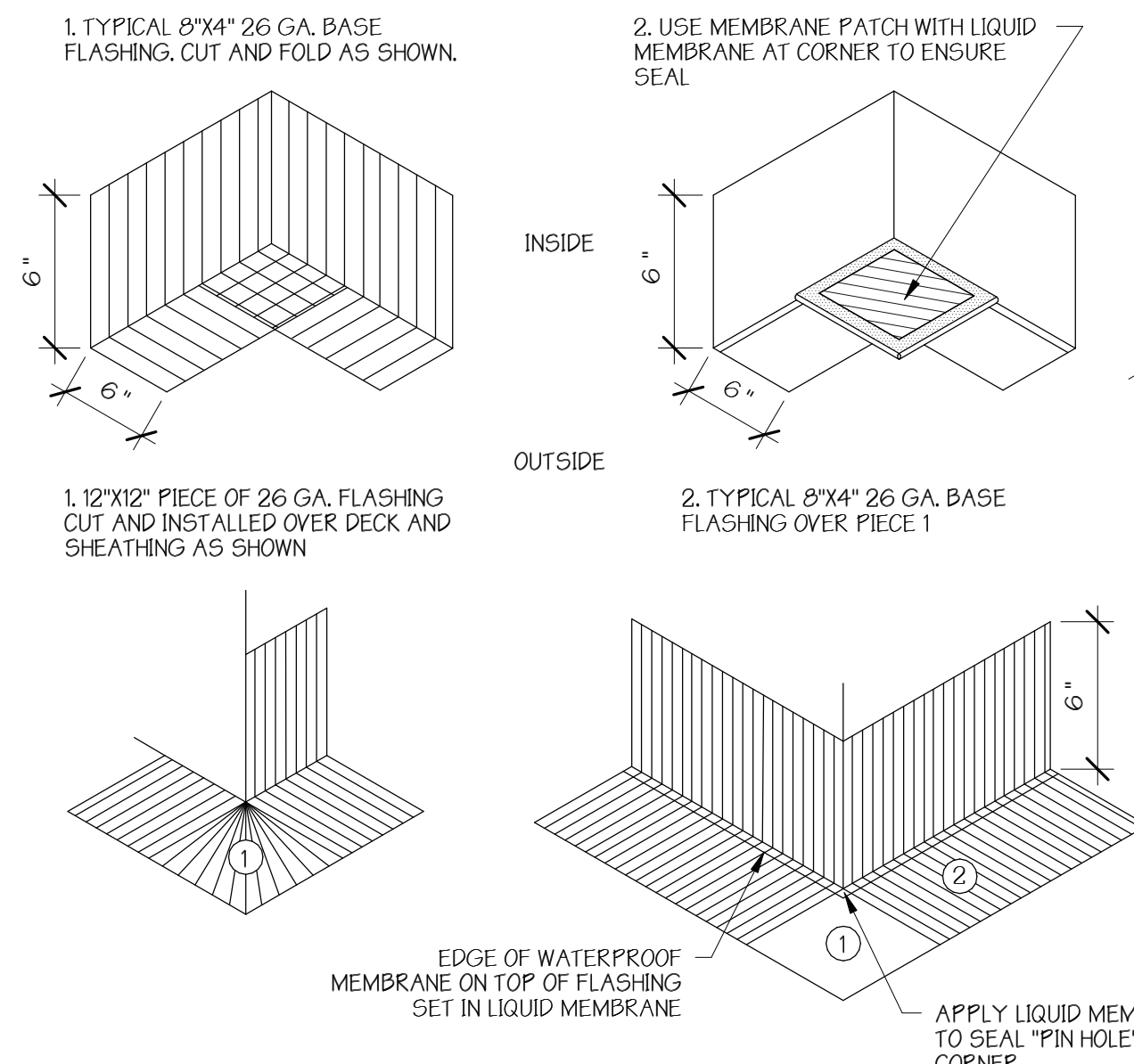
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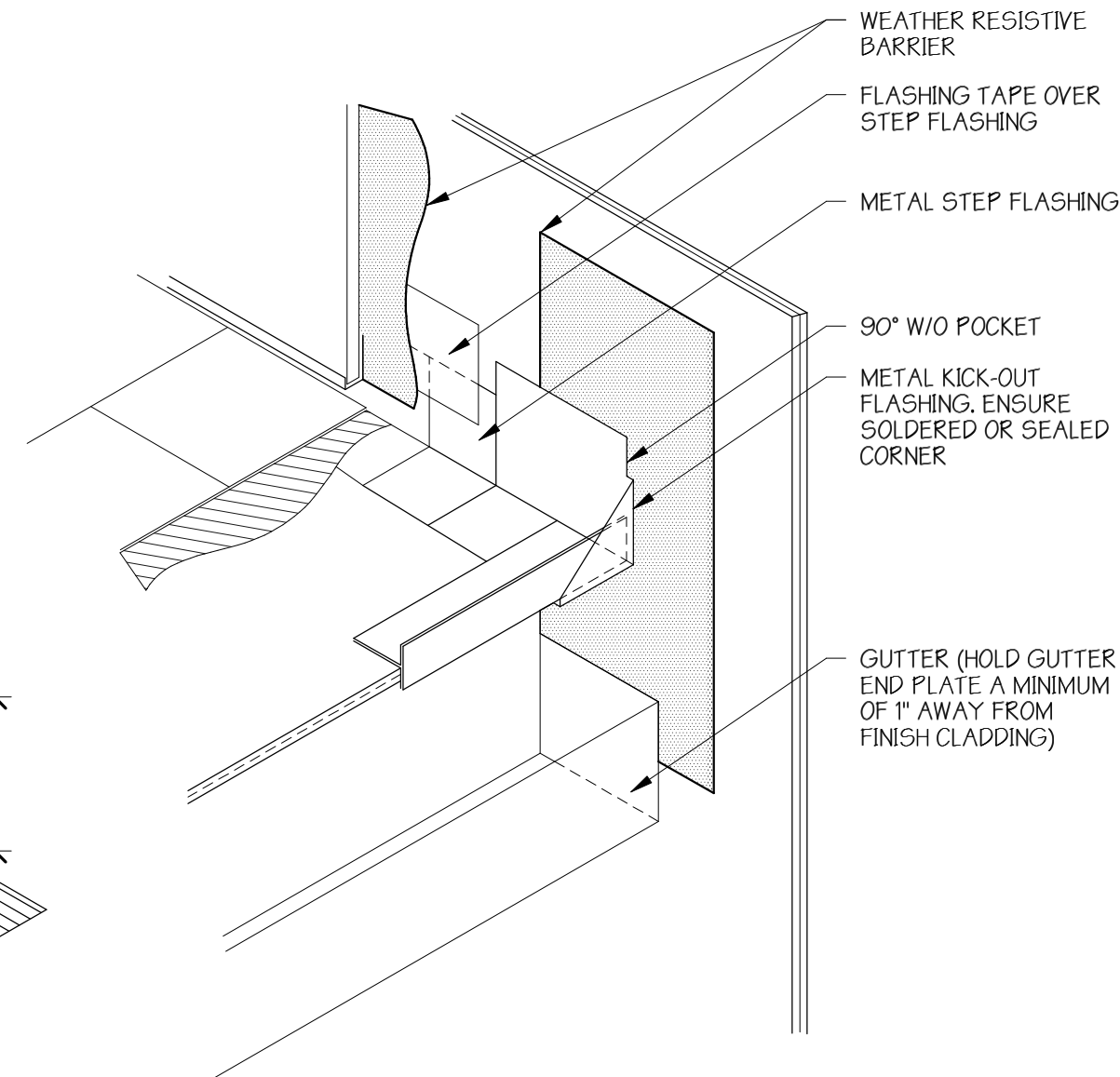
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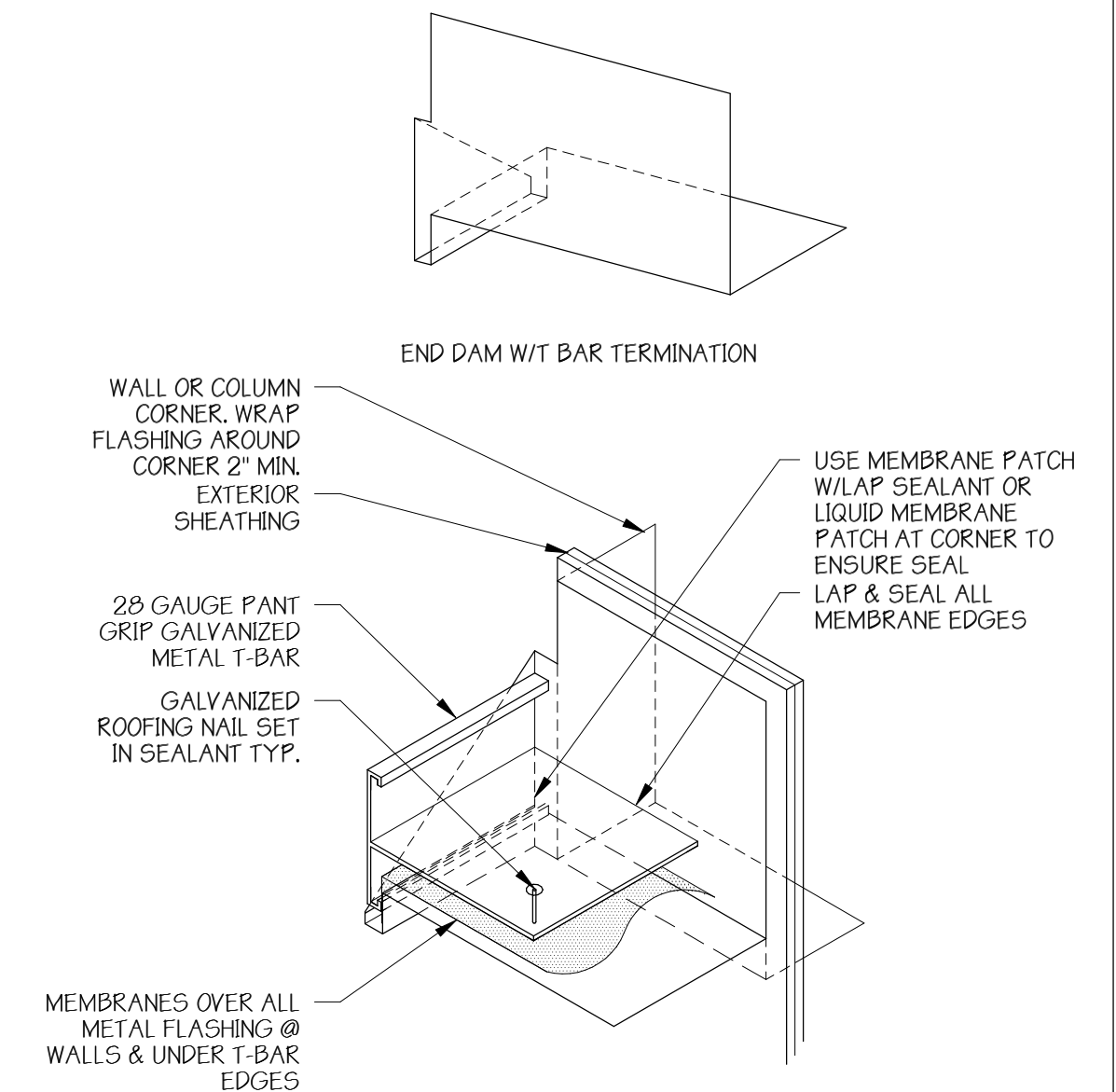
4 BALCONY @ VERTICAL WALL WATERPROOFING @ BALCONIES, BREEZEWAYS & OPEN CORRIDORS NTS



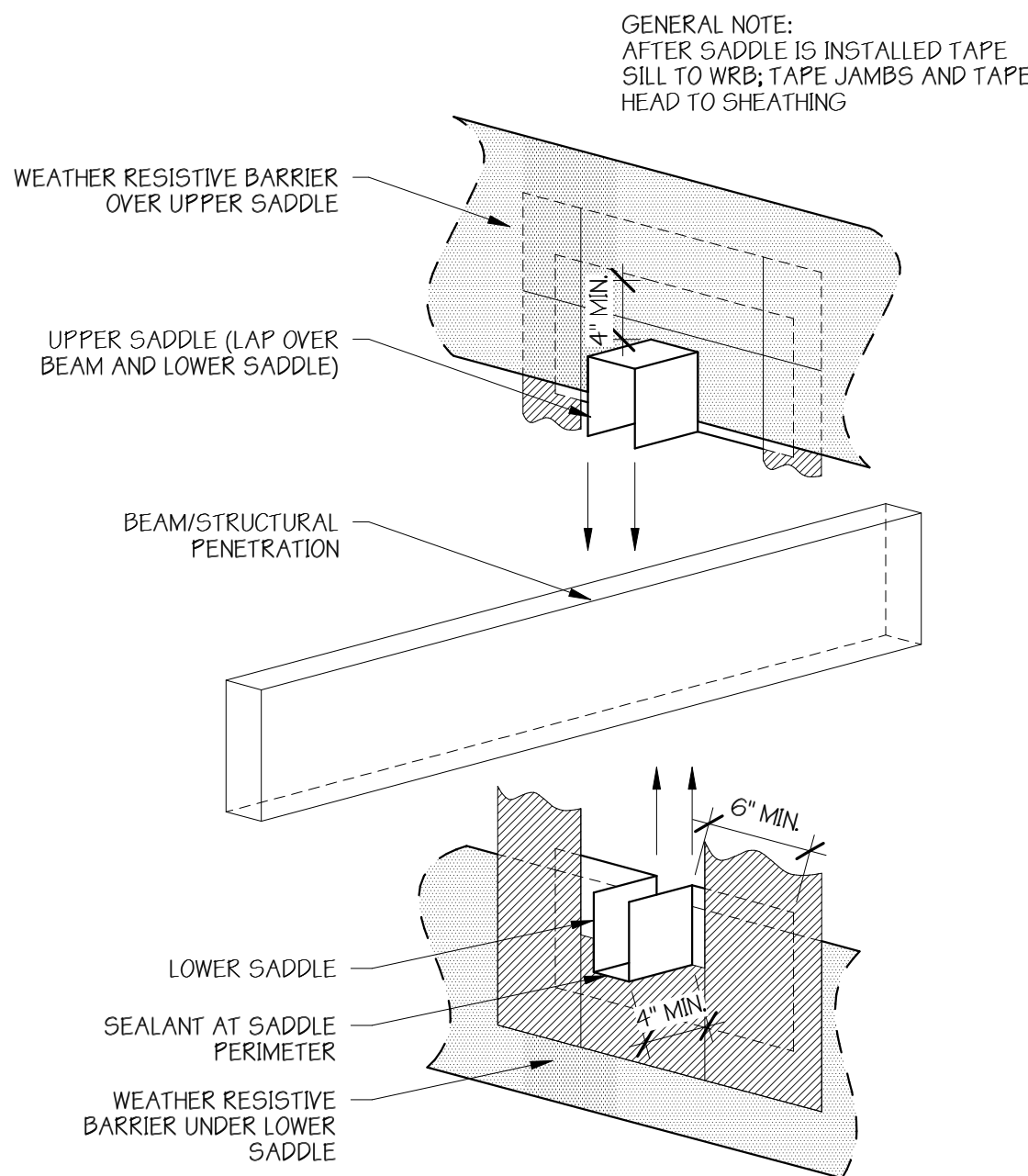
3 DECK EDGE AT CORNER OUTSIDE & INSIDE NTS



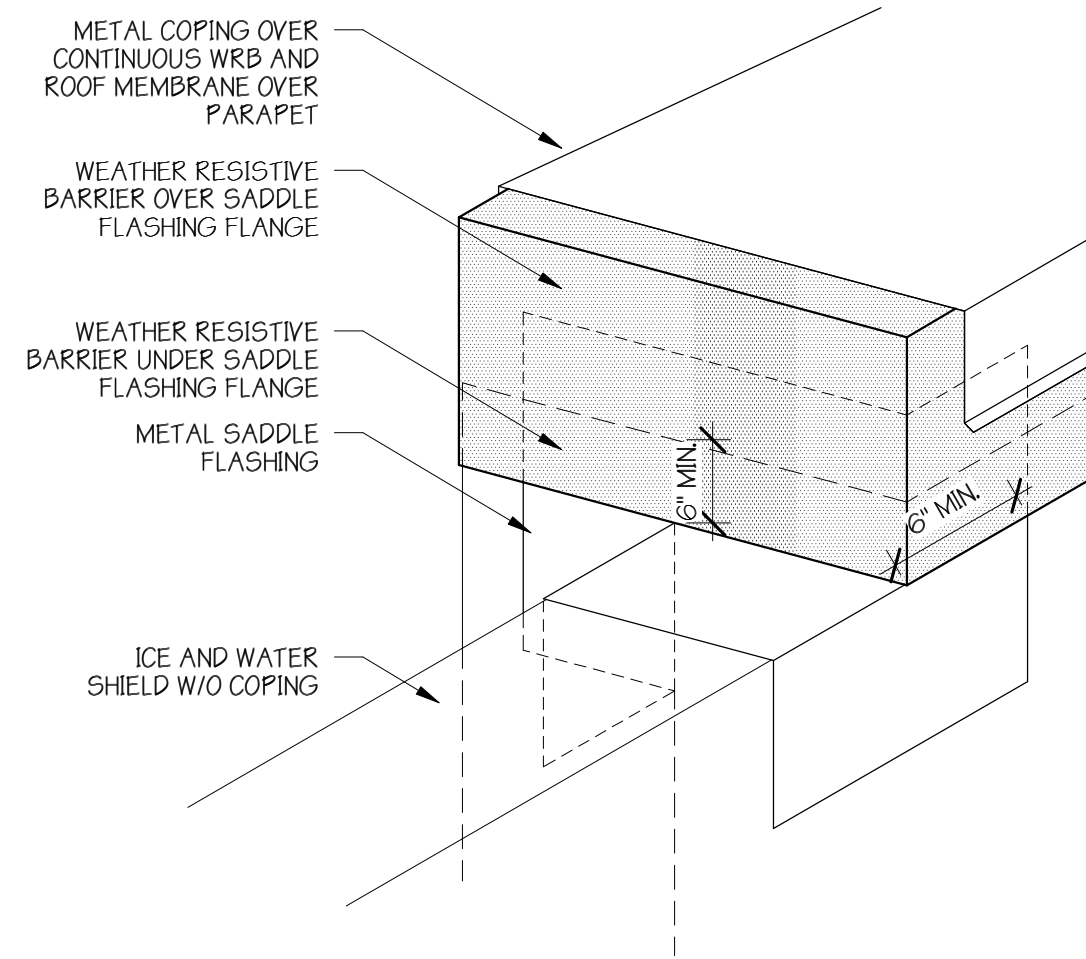
2 DECK-TO-WALL WATERPROOFING @ BALCONY & SIM NTS



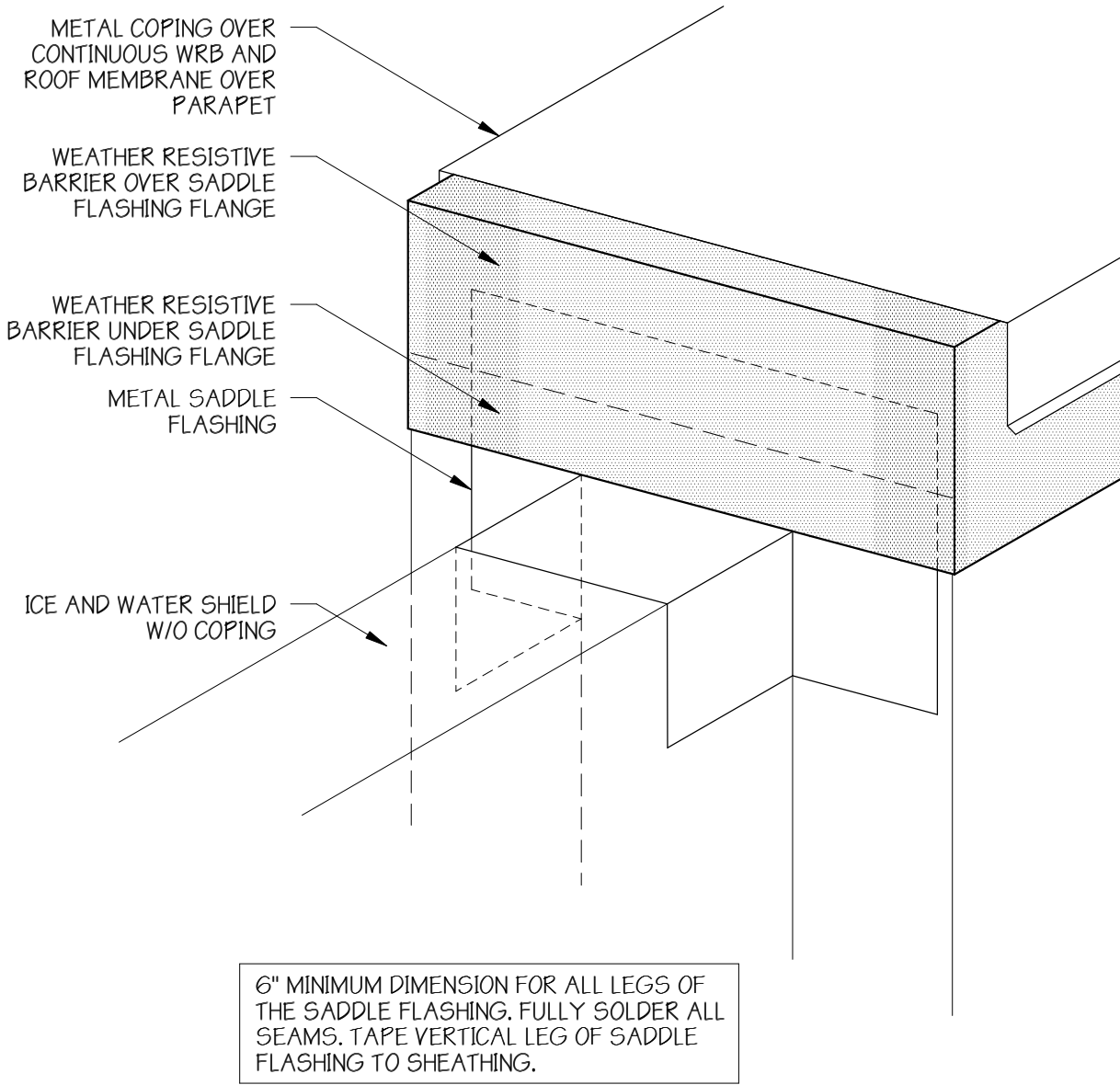
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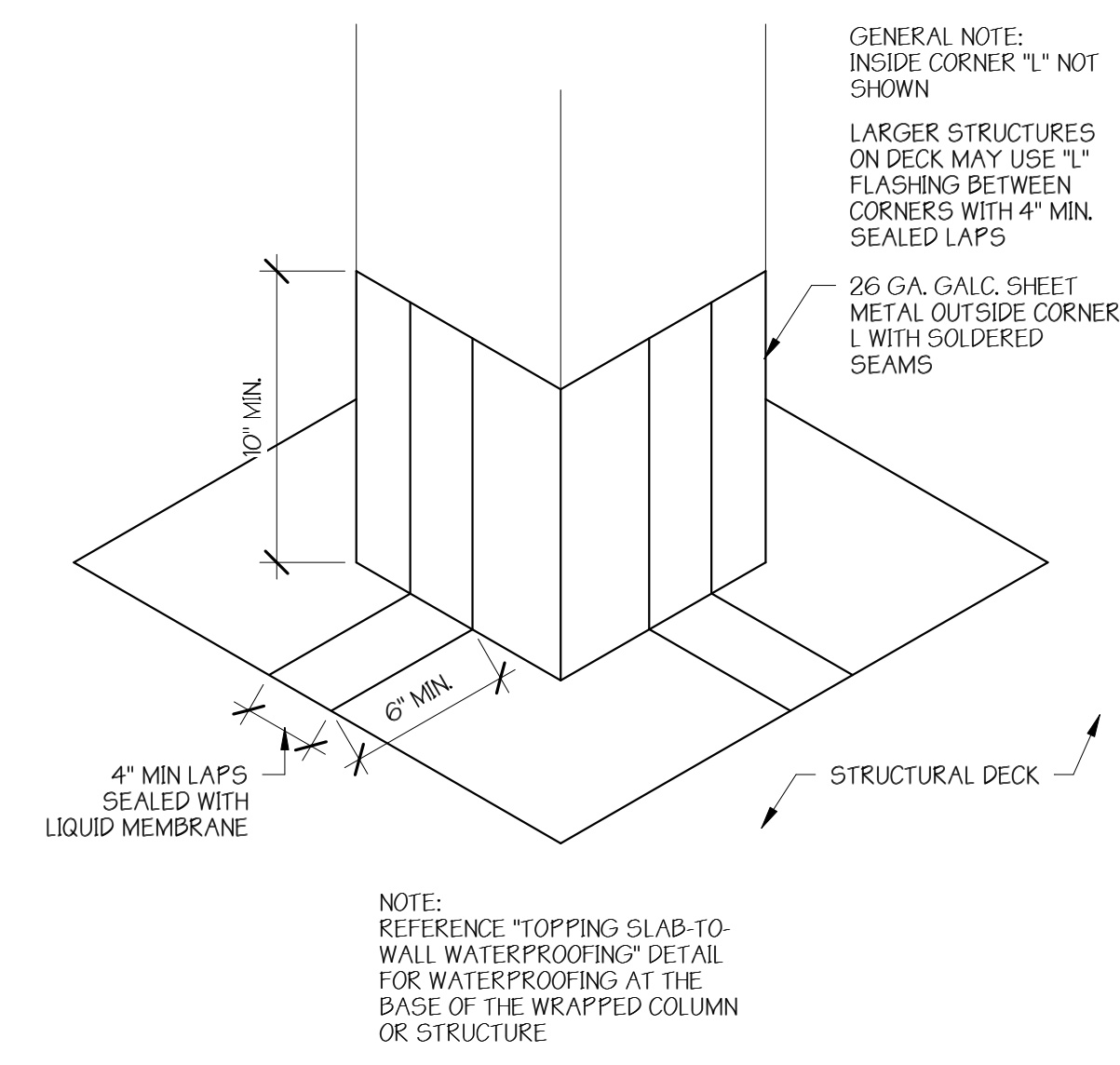
10 SADDLE FLASHING FLASHING NTS



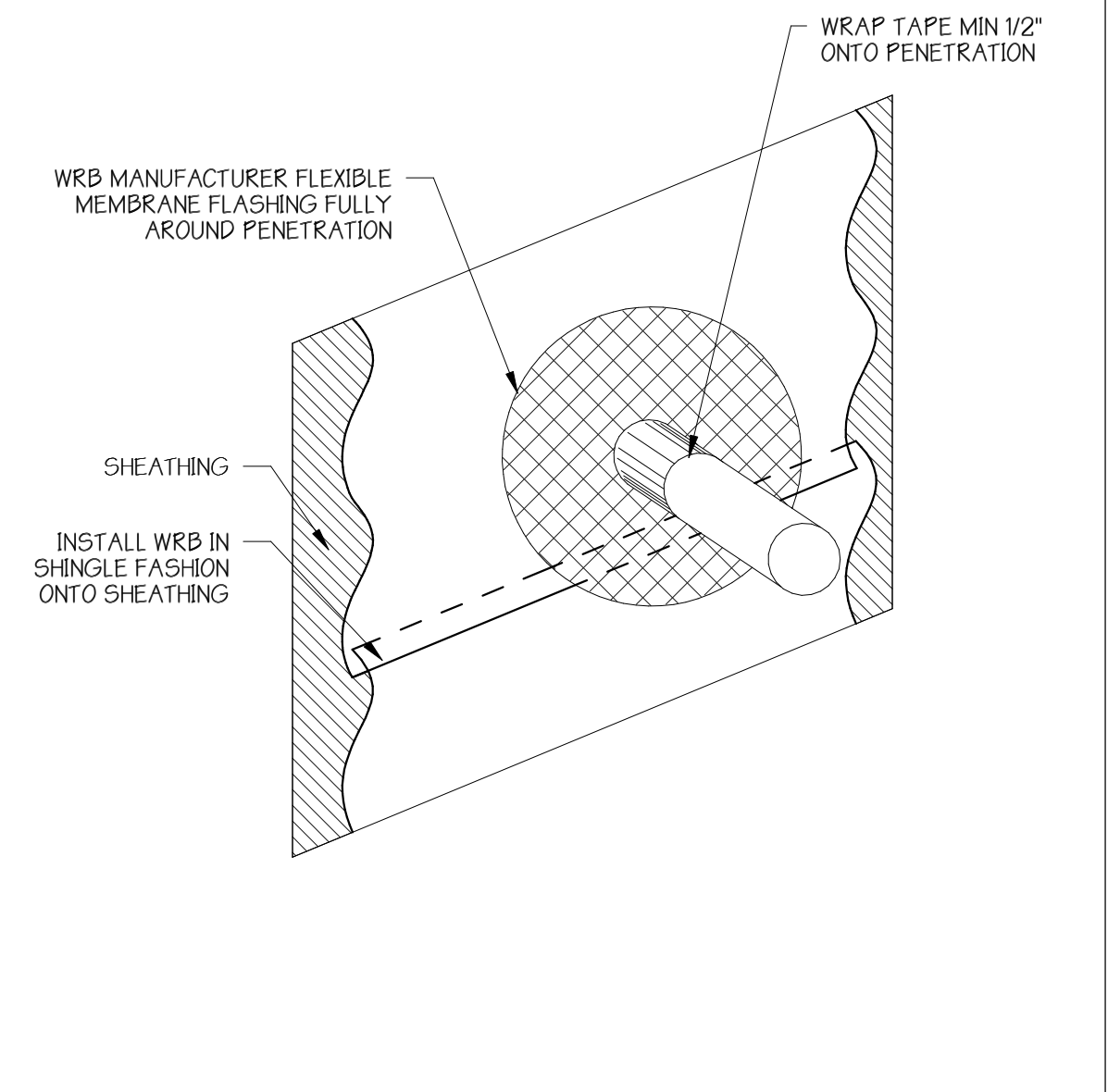
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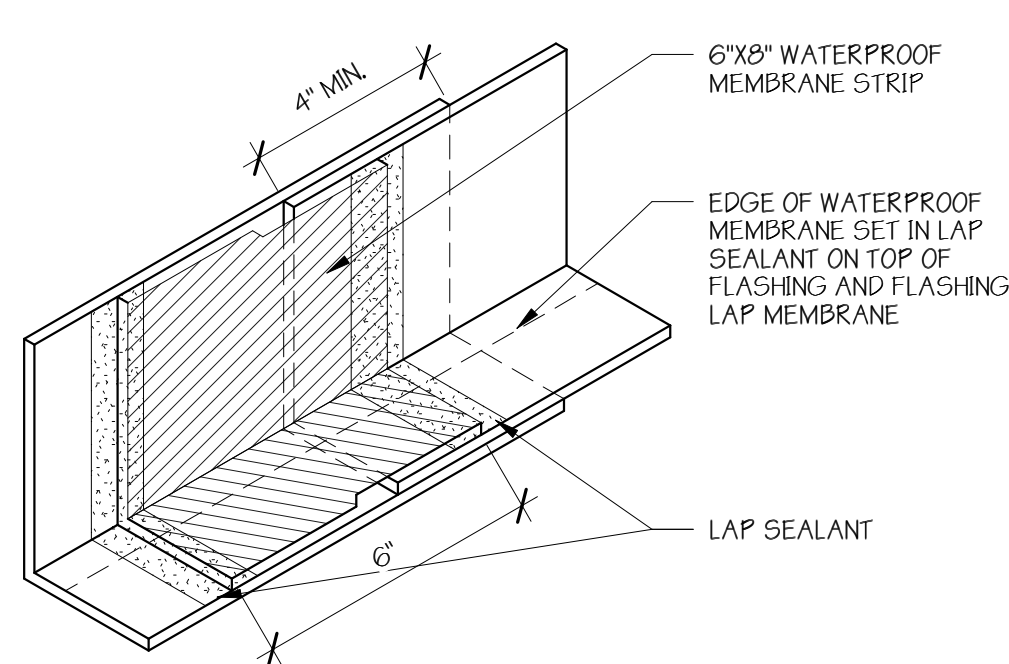
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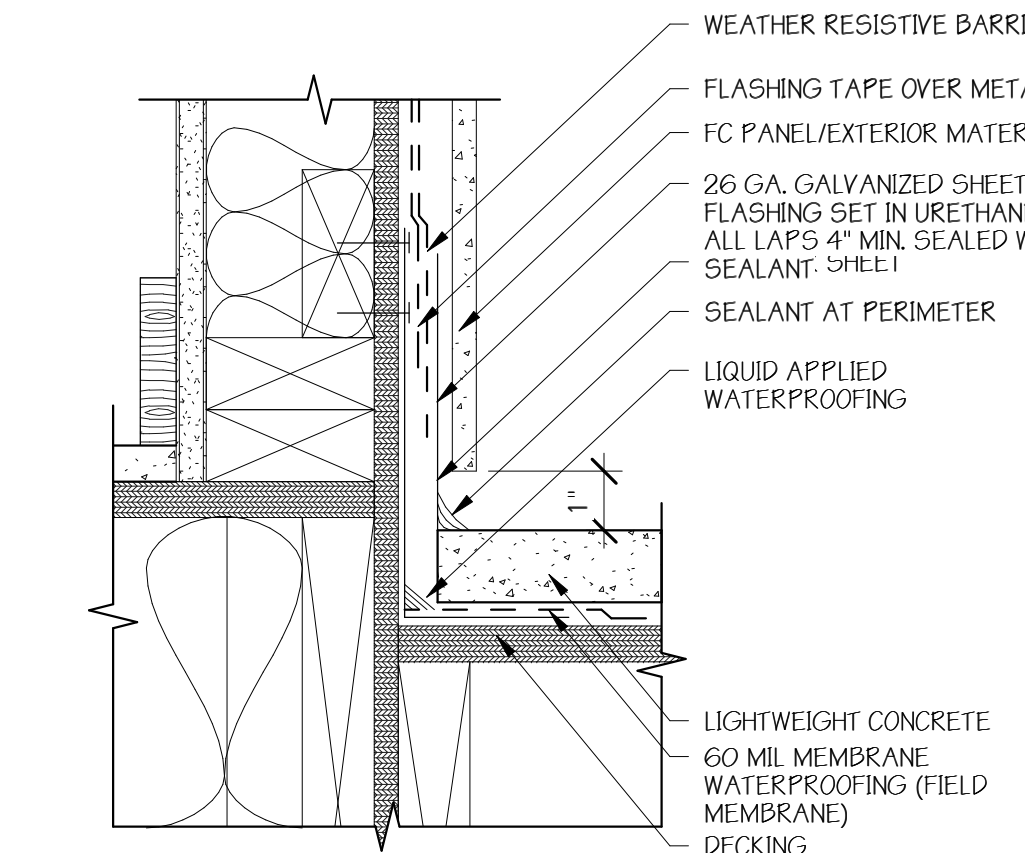
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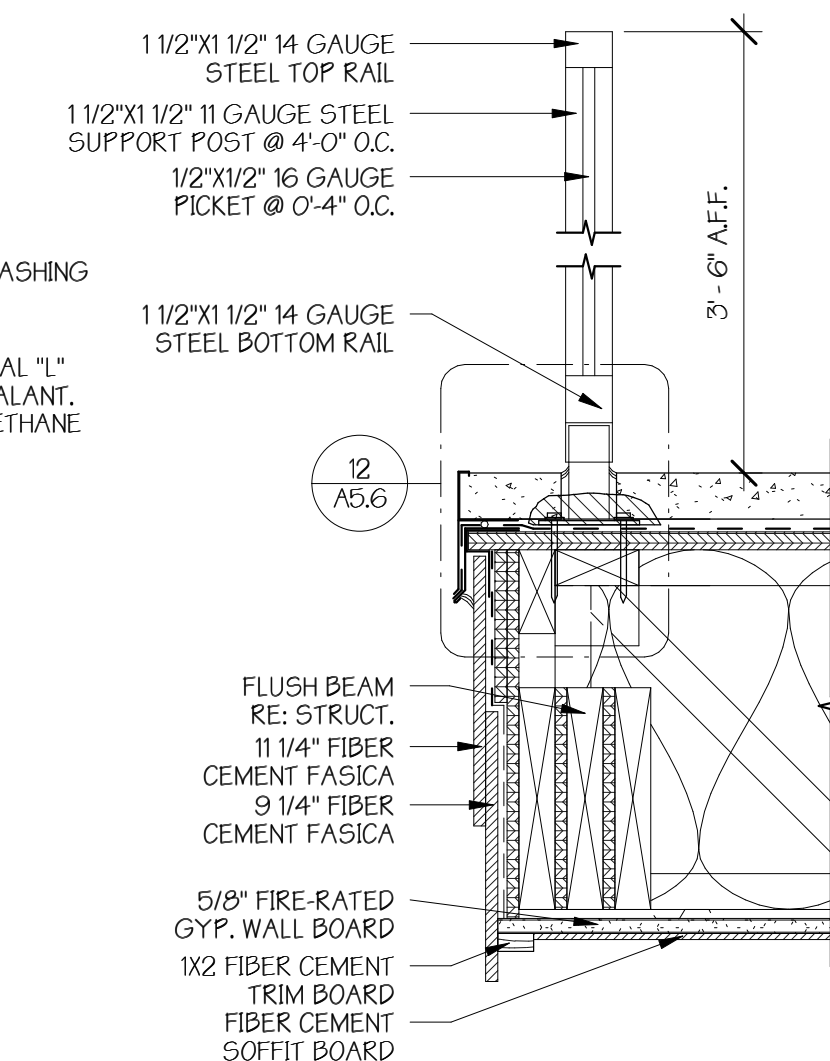
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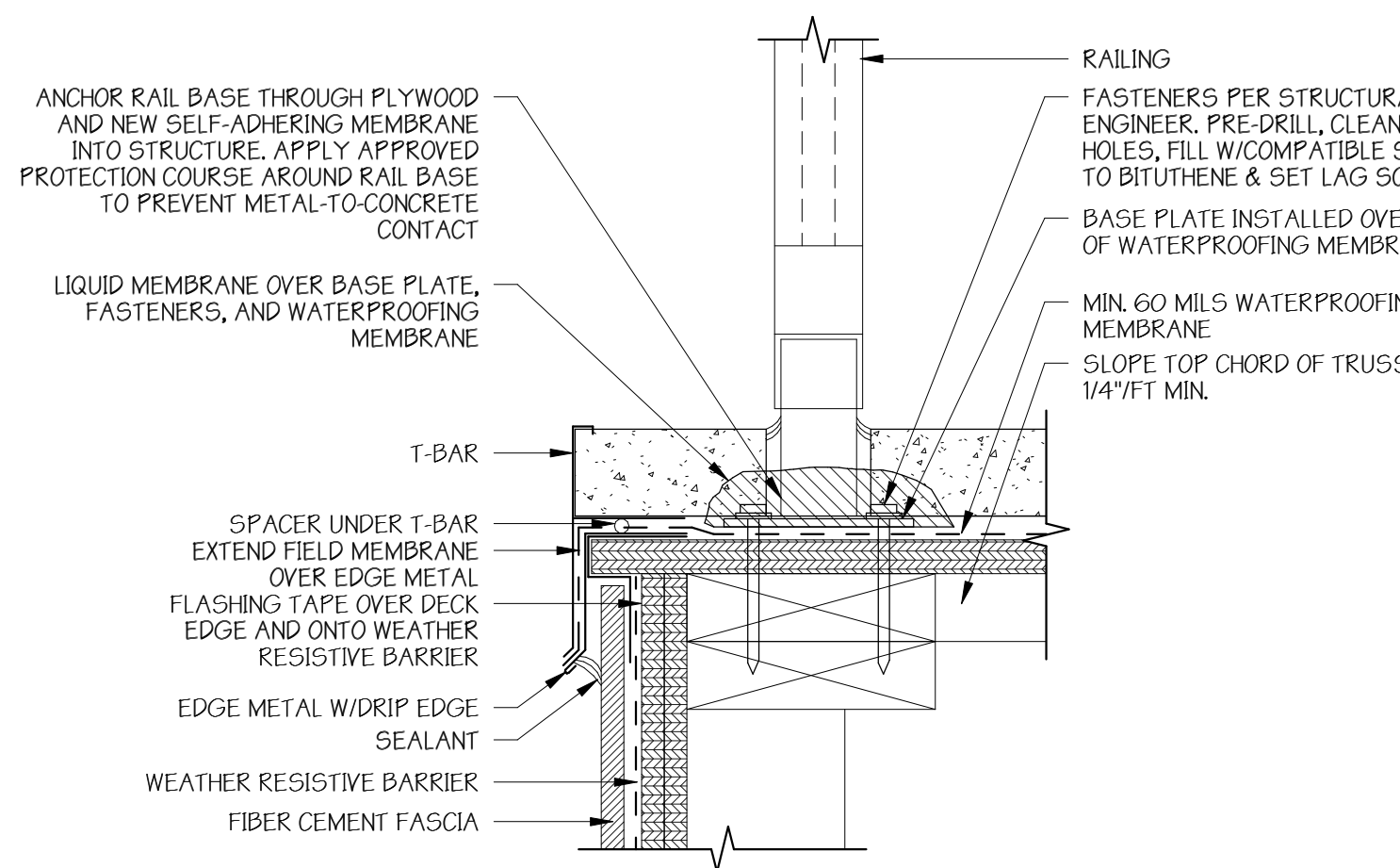
15 FLASHING LAP NTS



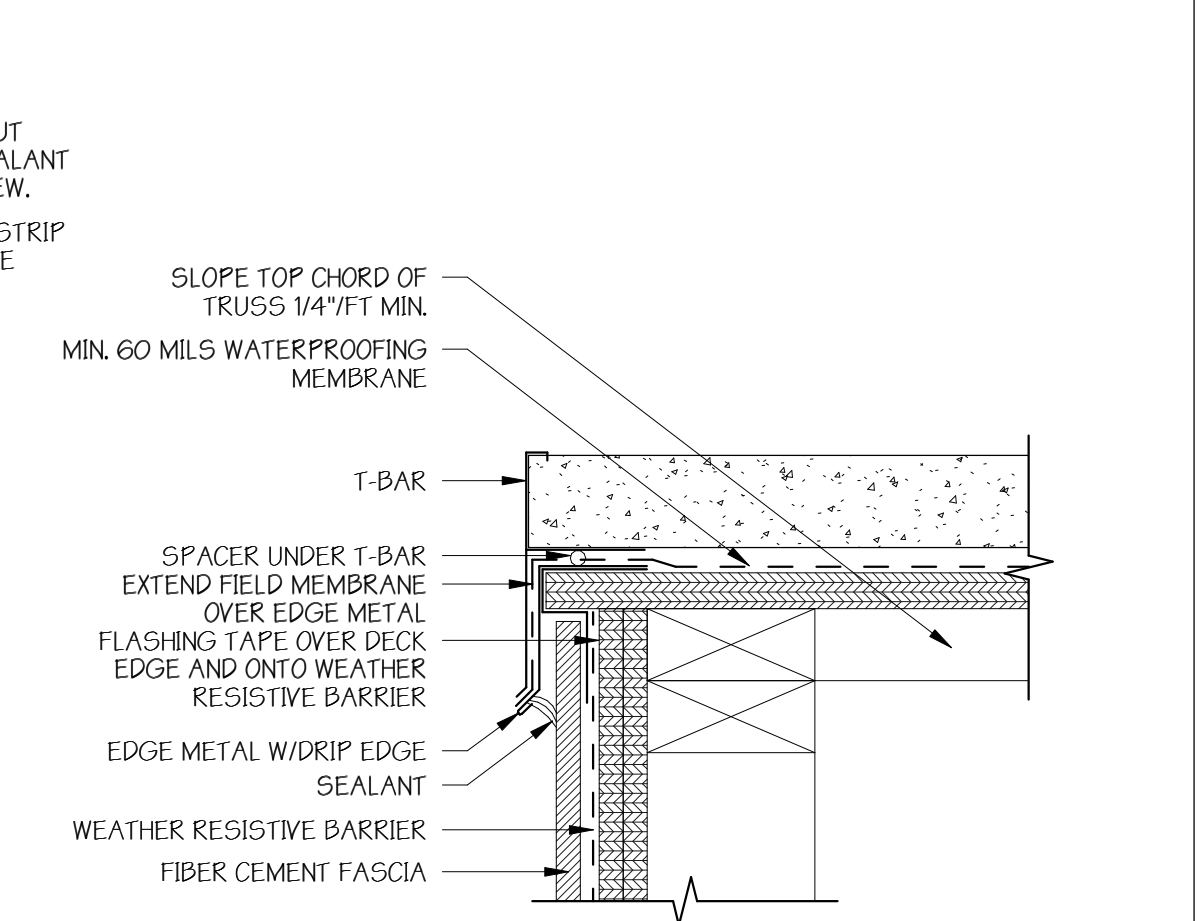
14 DECK-TO-WALL WATERPROOFING NTS



13 TYP. HANDRAIL @ BALCONY W/ FIBER CEMENT NTS



12 T-BAR AT RAIL EMBED NTS



11 BALCONY EDGE DETAIL NTS

DRAWN BY: DPF, MAR

CHECKED BY: JMK

PROJECT #: 18-2325

REGISTERED ARCHITECT
STATE OF TEXAS
05/23/19
EXP: 11/30/19

LDG DEVELOPEMENT

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MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

No.	Revision	Date
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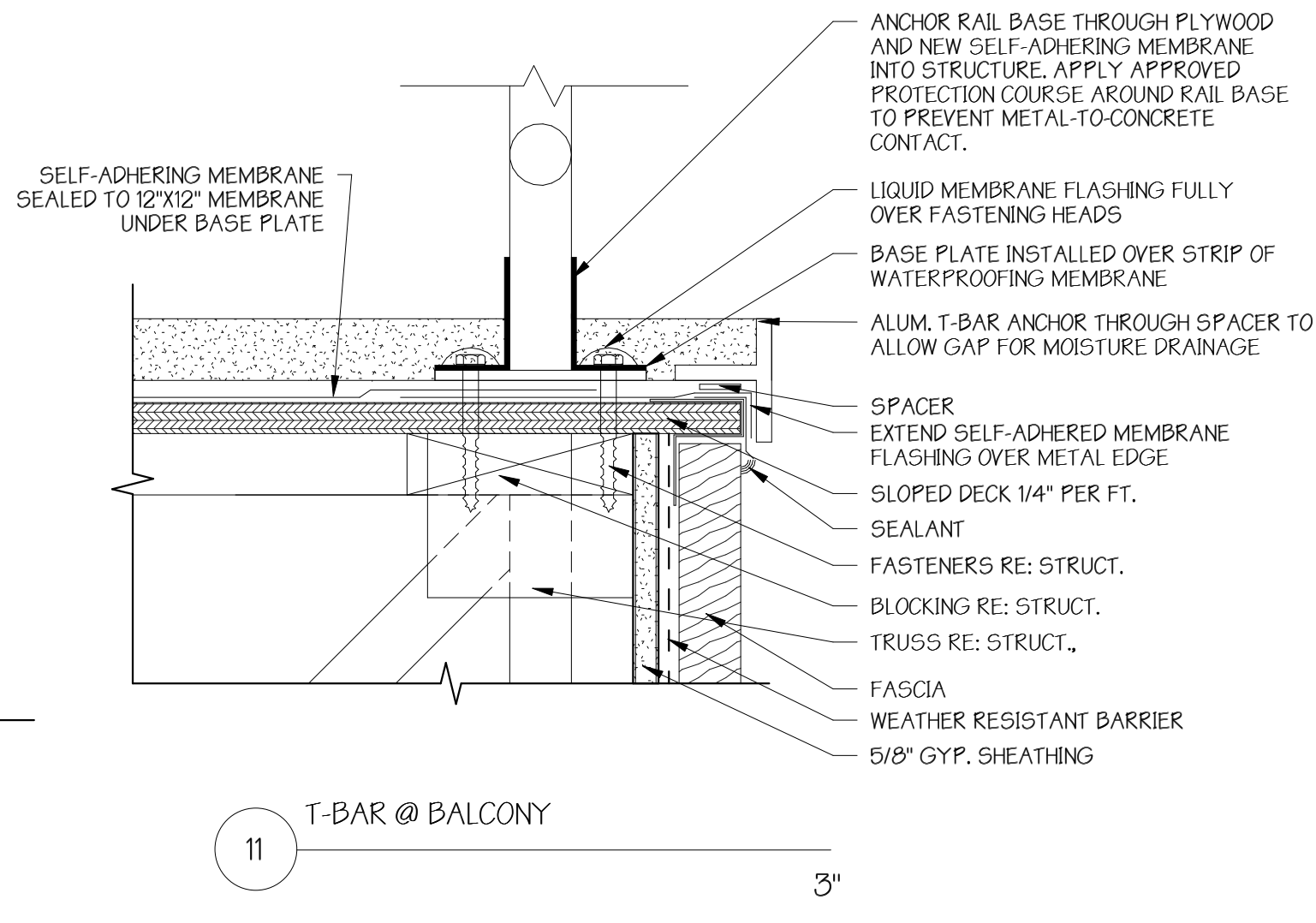
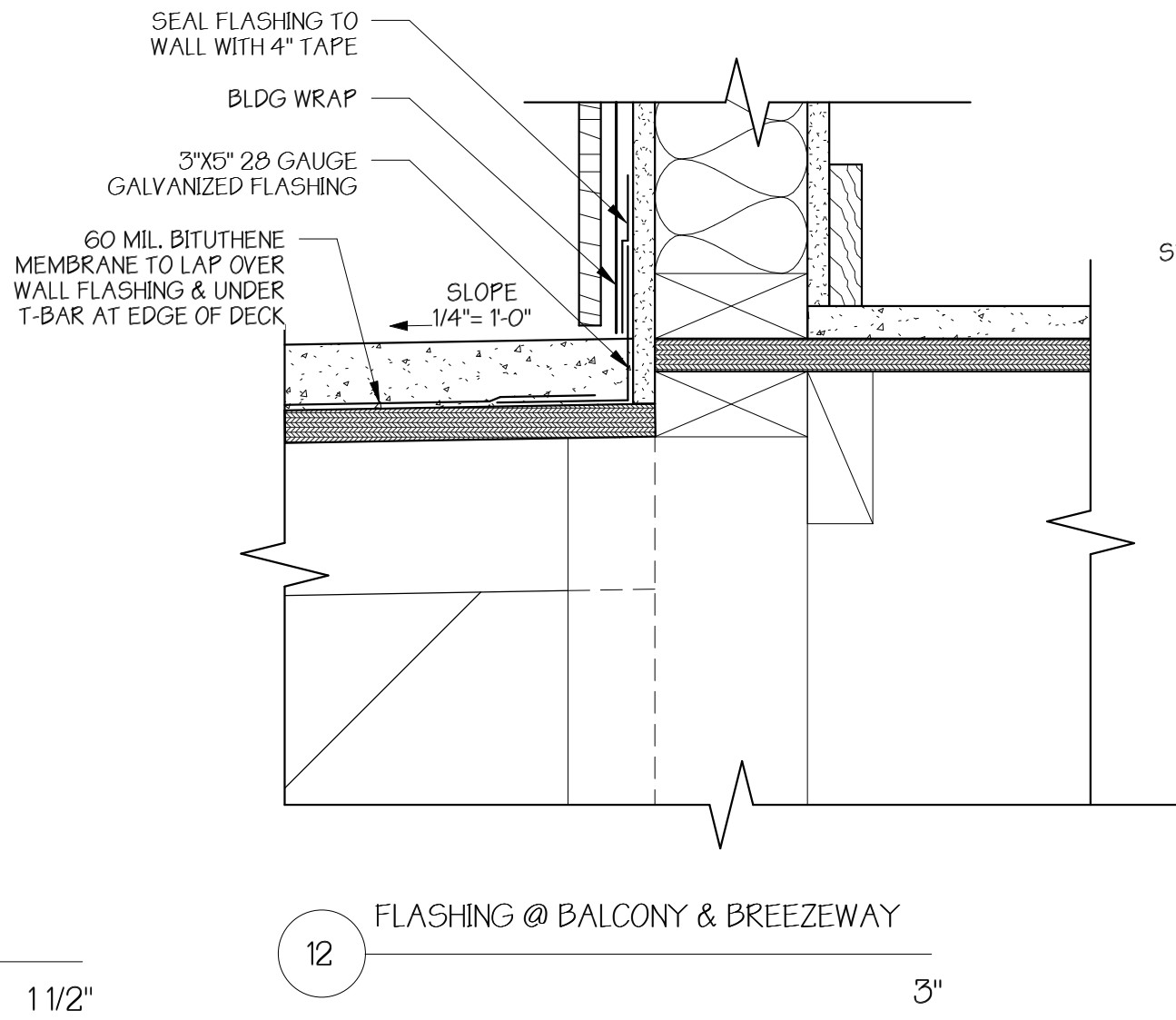
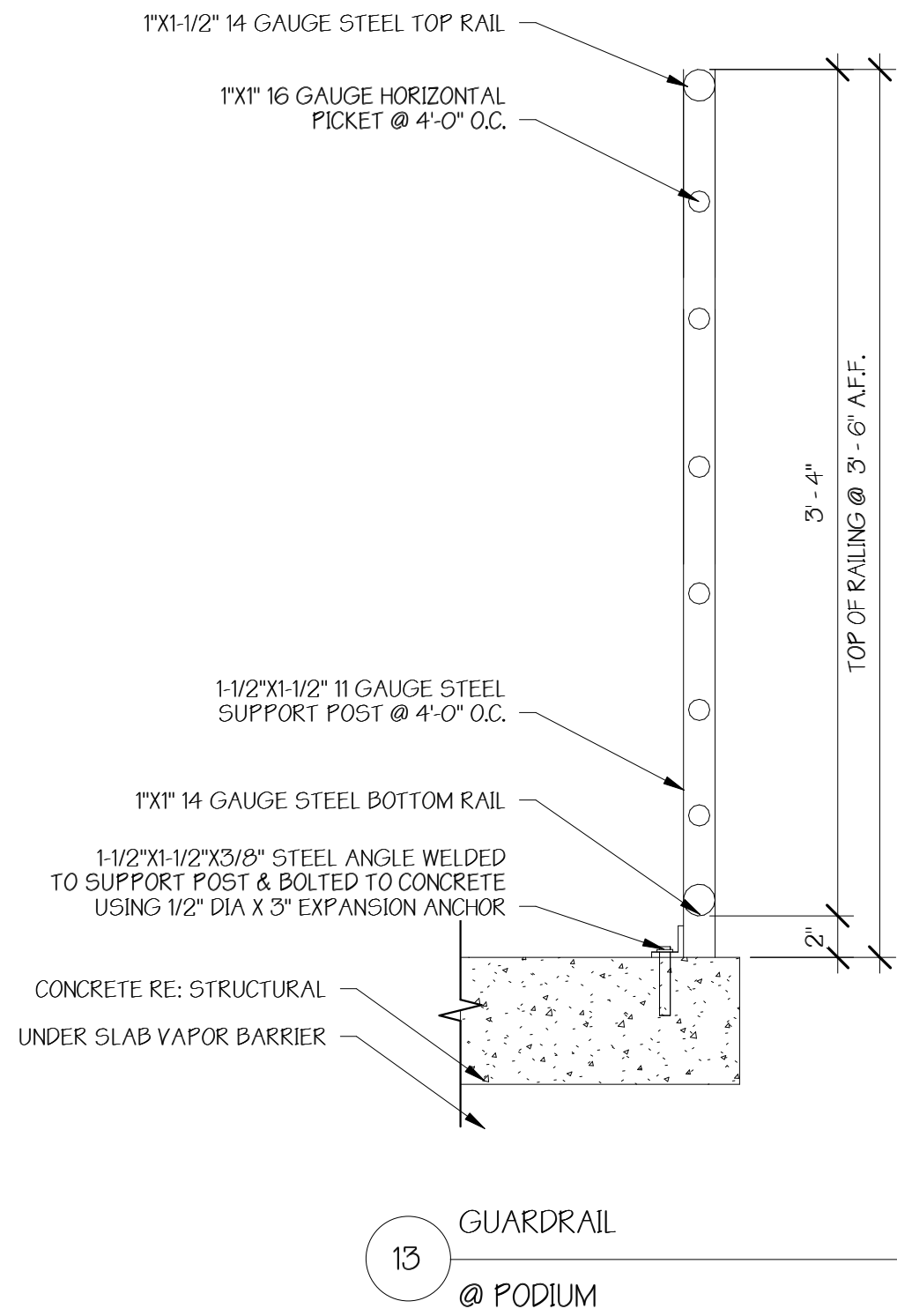
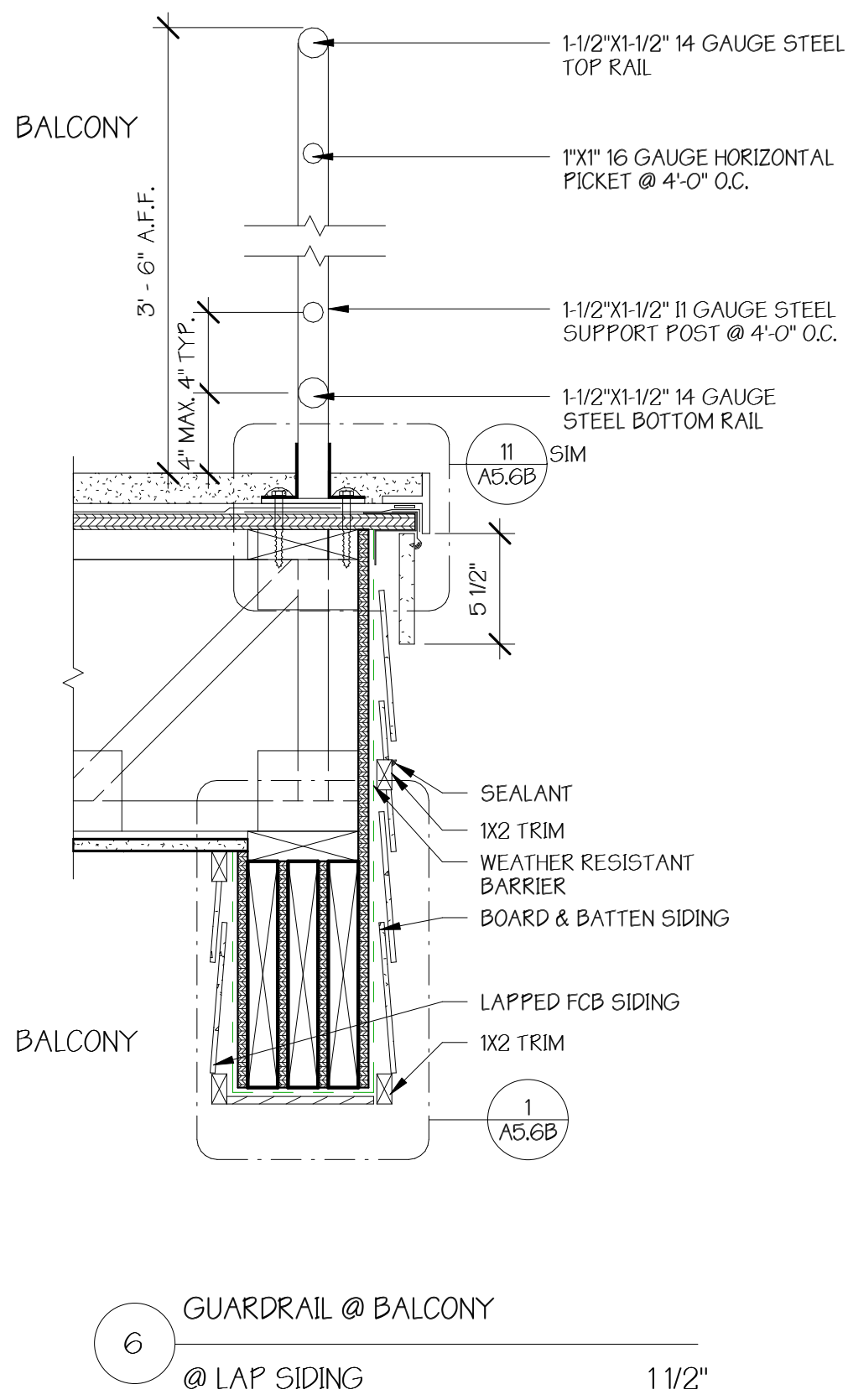
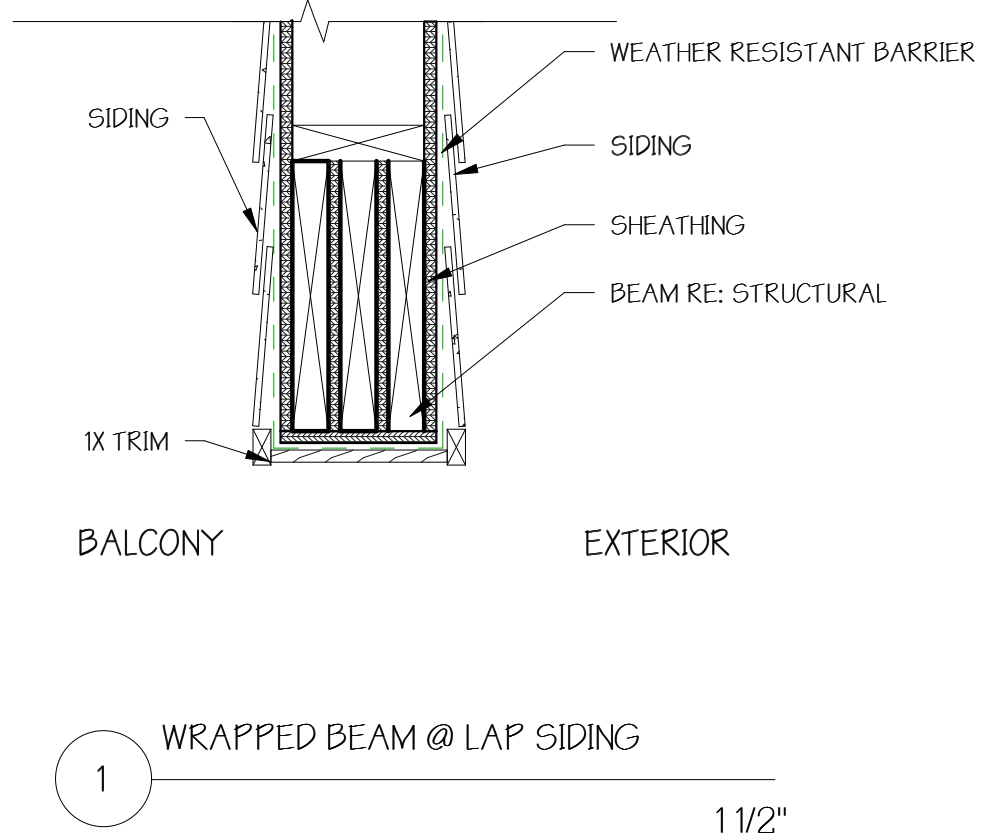
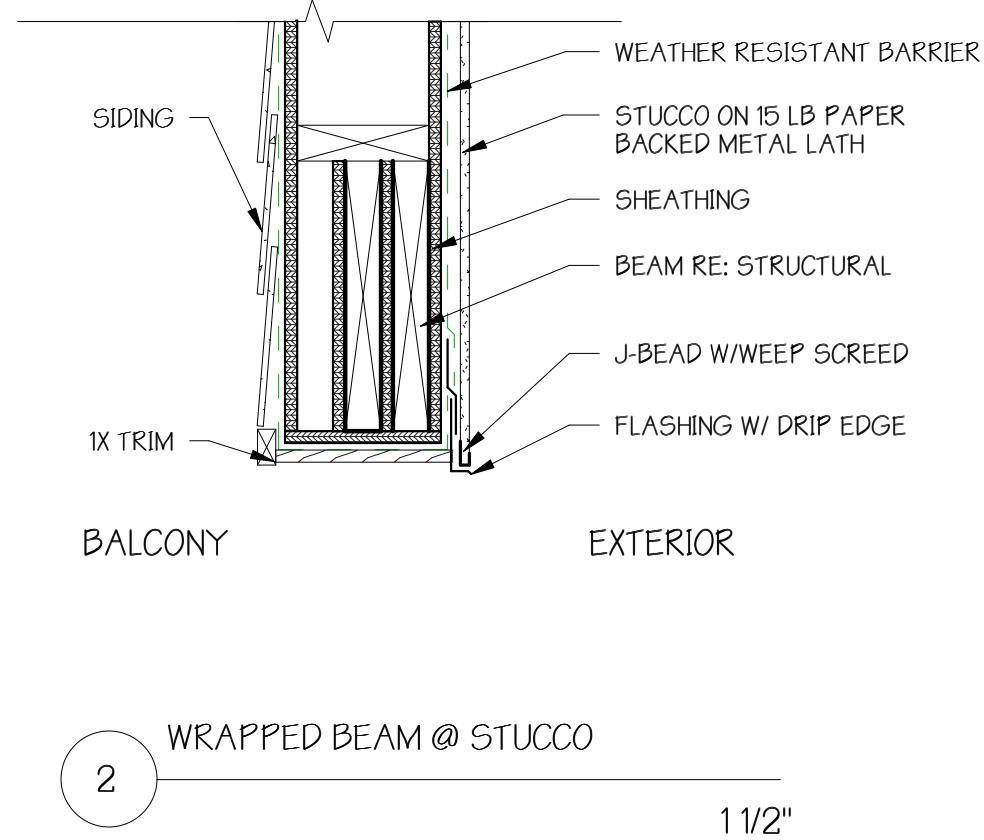
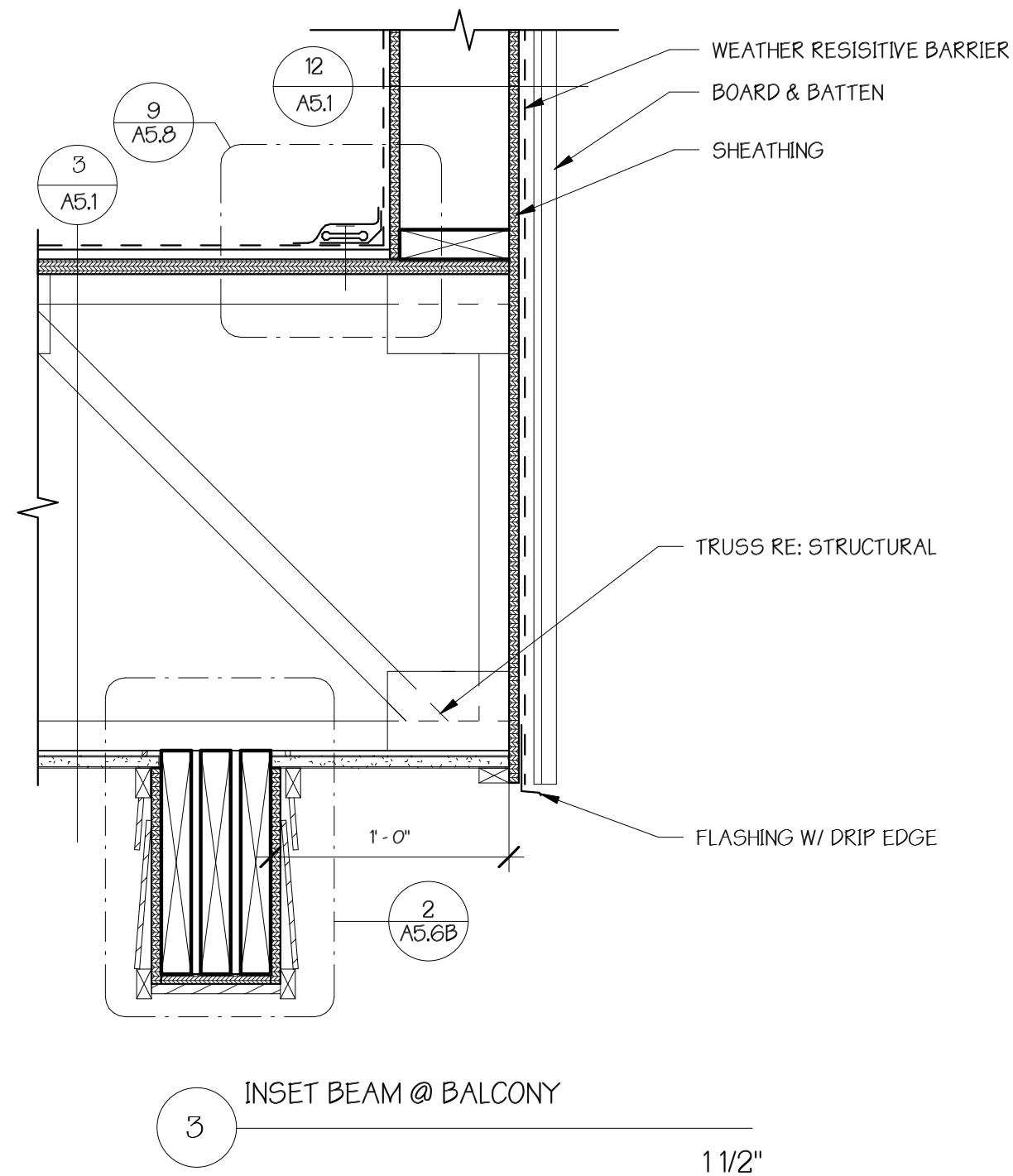
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DWG NAME

DATE

DESCRIPTION
BALCONY/CORRIDOR FLASHING DETAILS

SHEET
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DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

05/23/19EXP: 11/30/19

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8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

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06-10-2019

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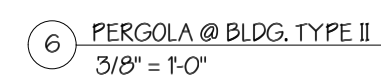
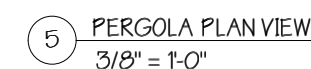
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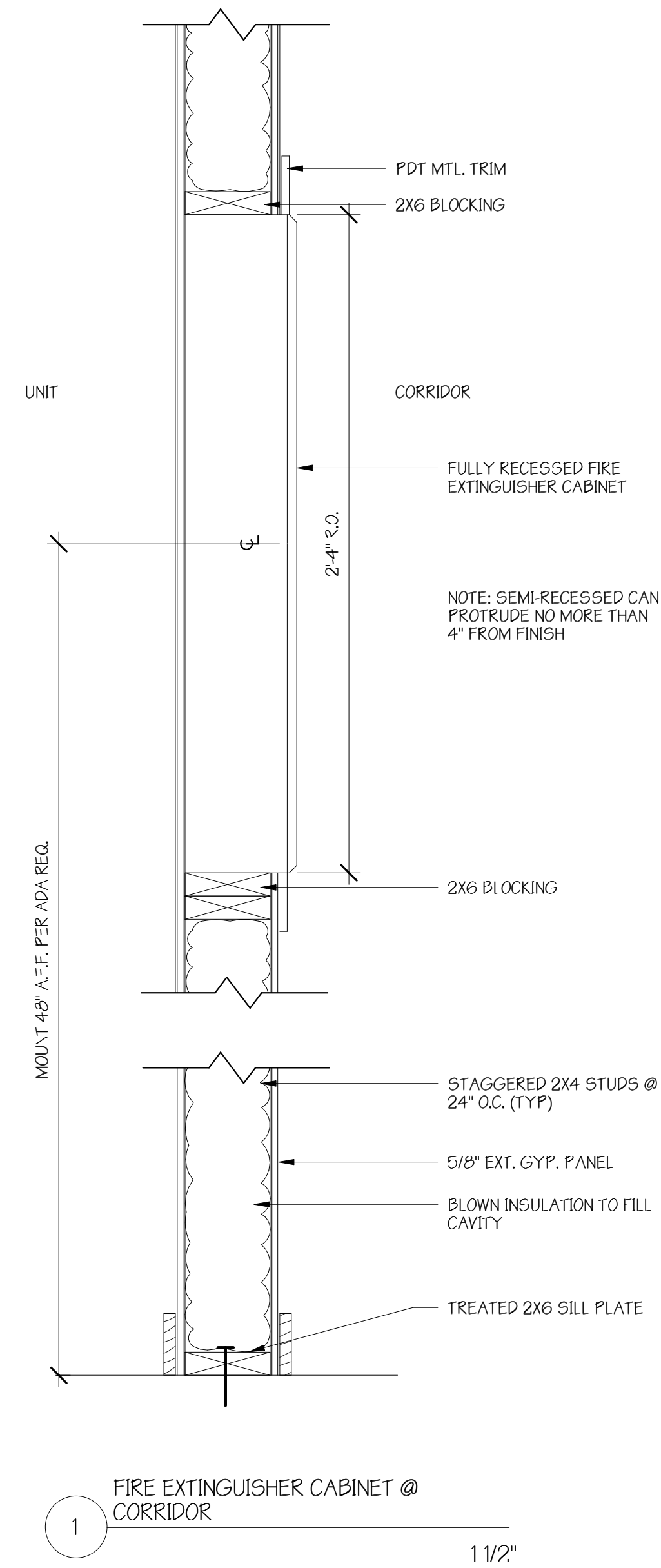
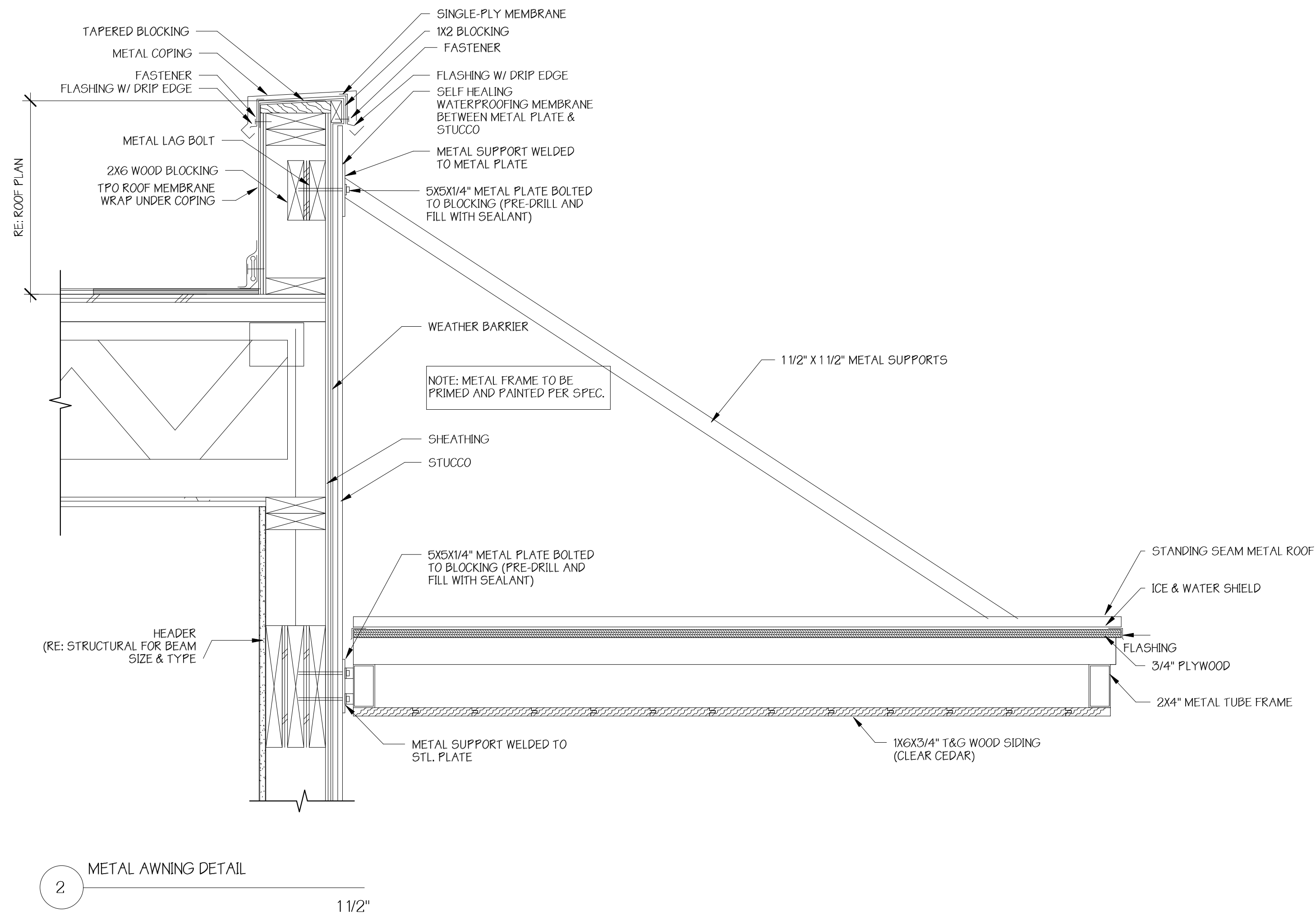
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MAR

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JMK

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18-2325



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MOONLIGHT GARDEN
8901 NUCKOLIS CROSSING RD, AUSTIN TX
78747

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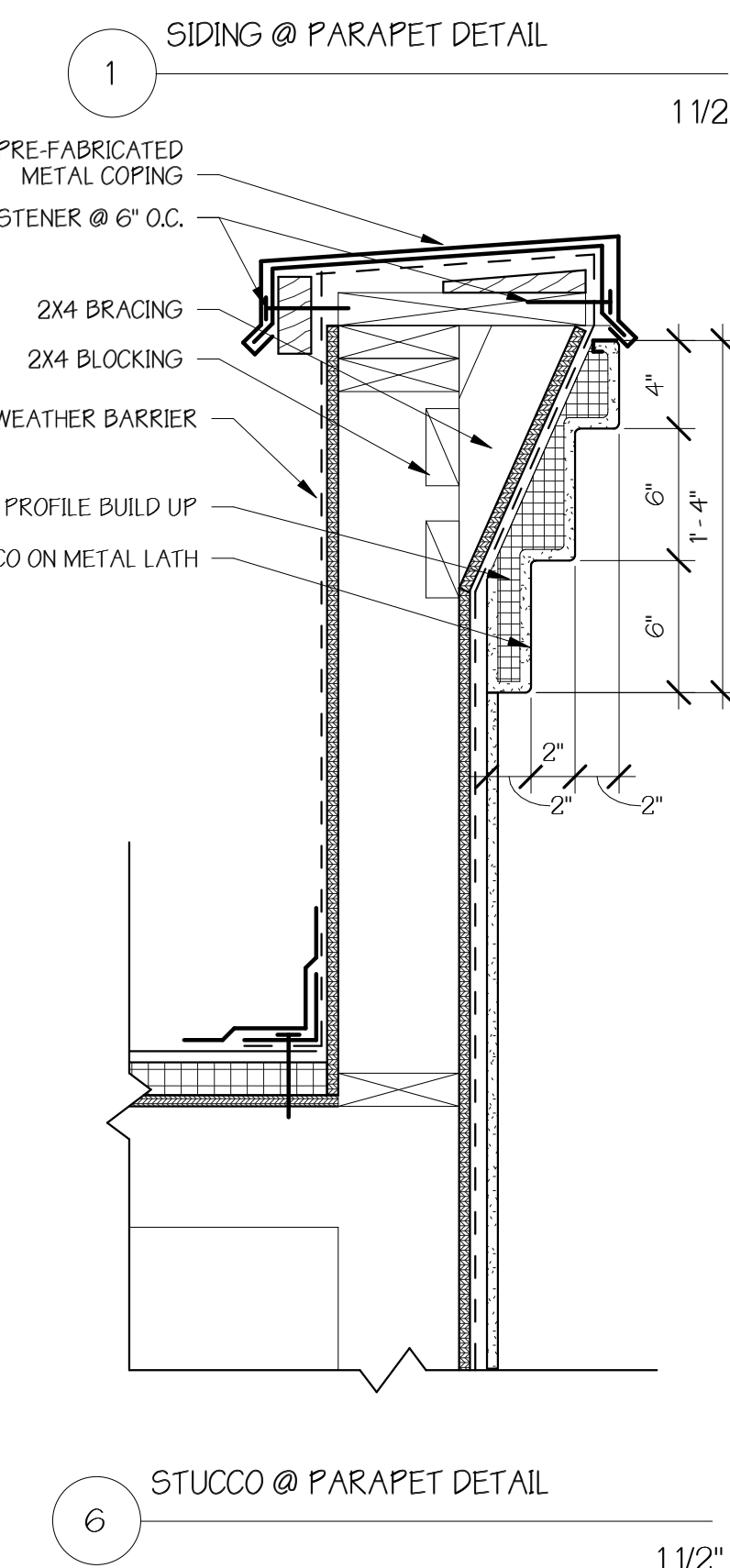
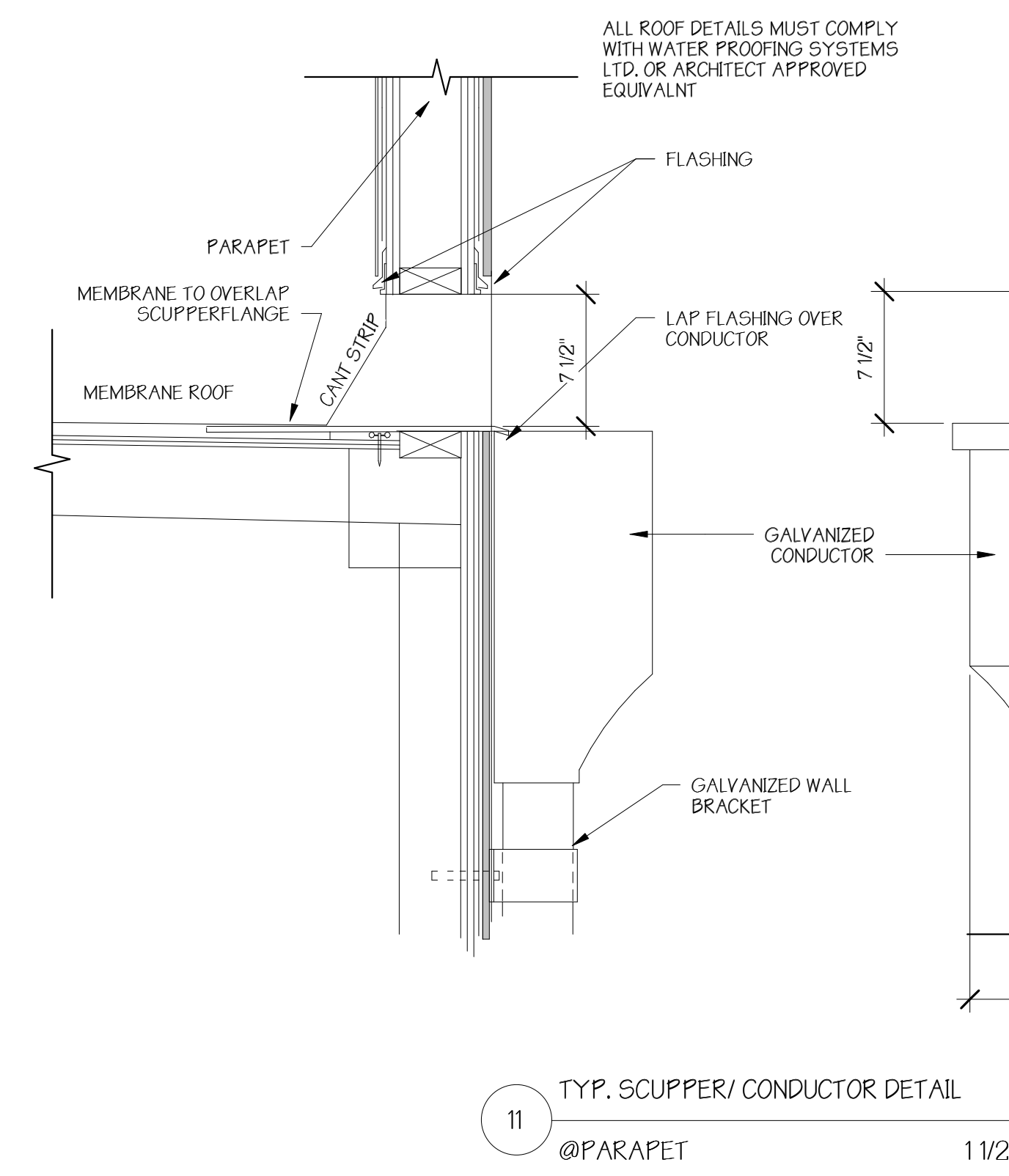
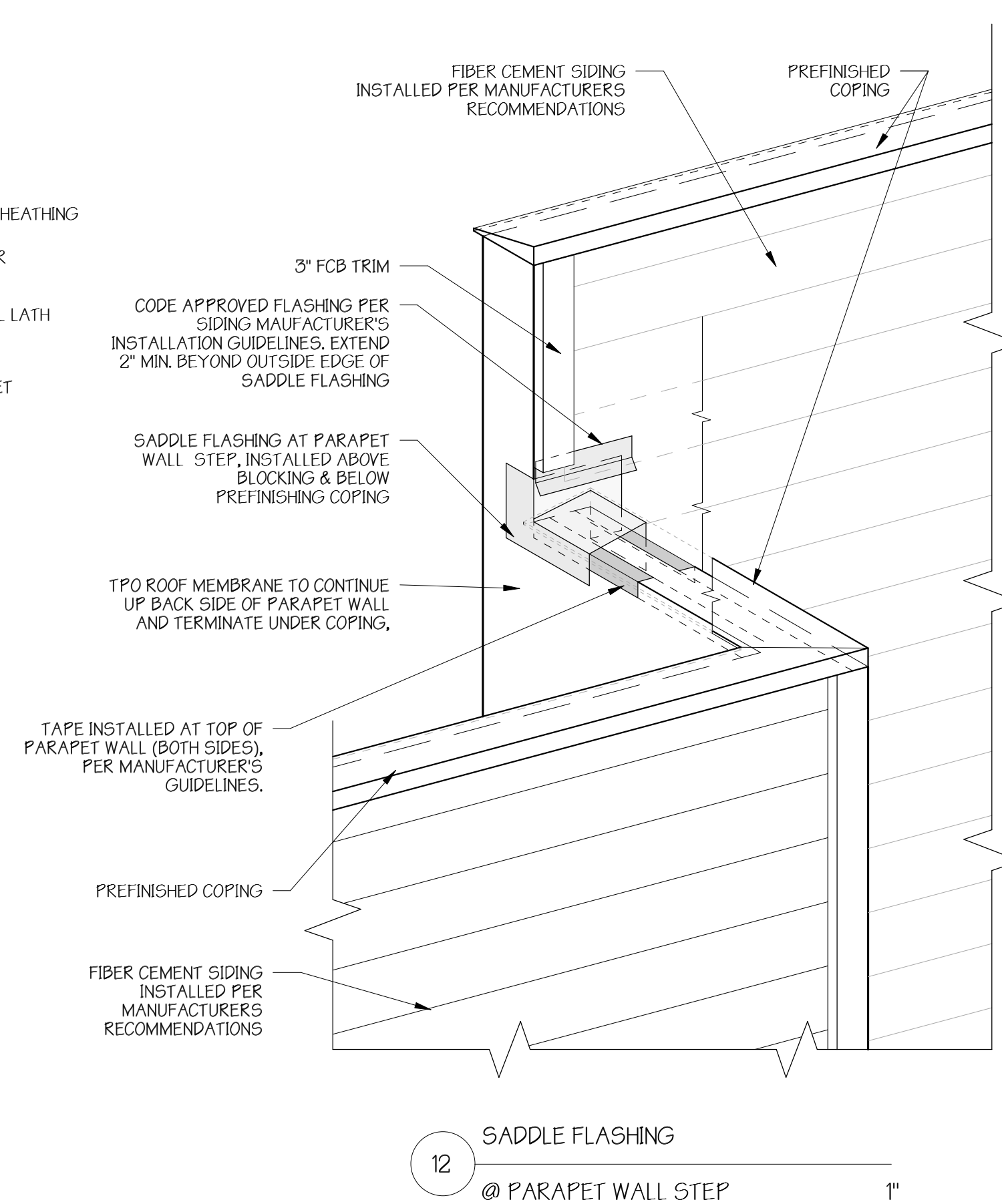
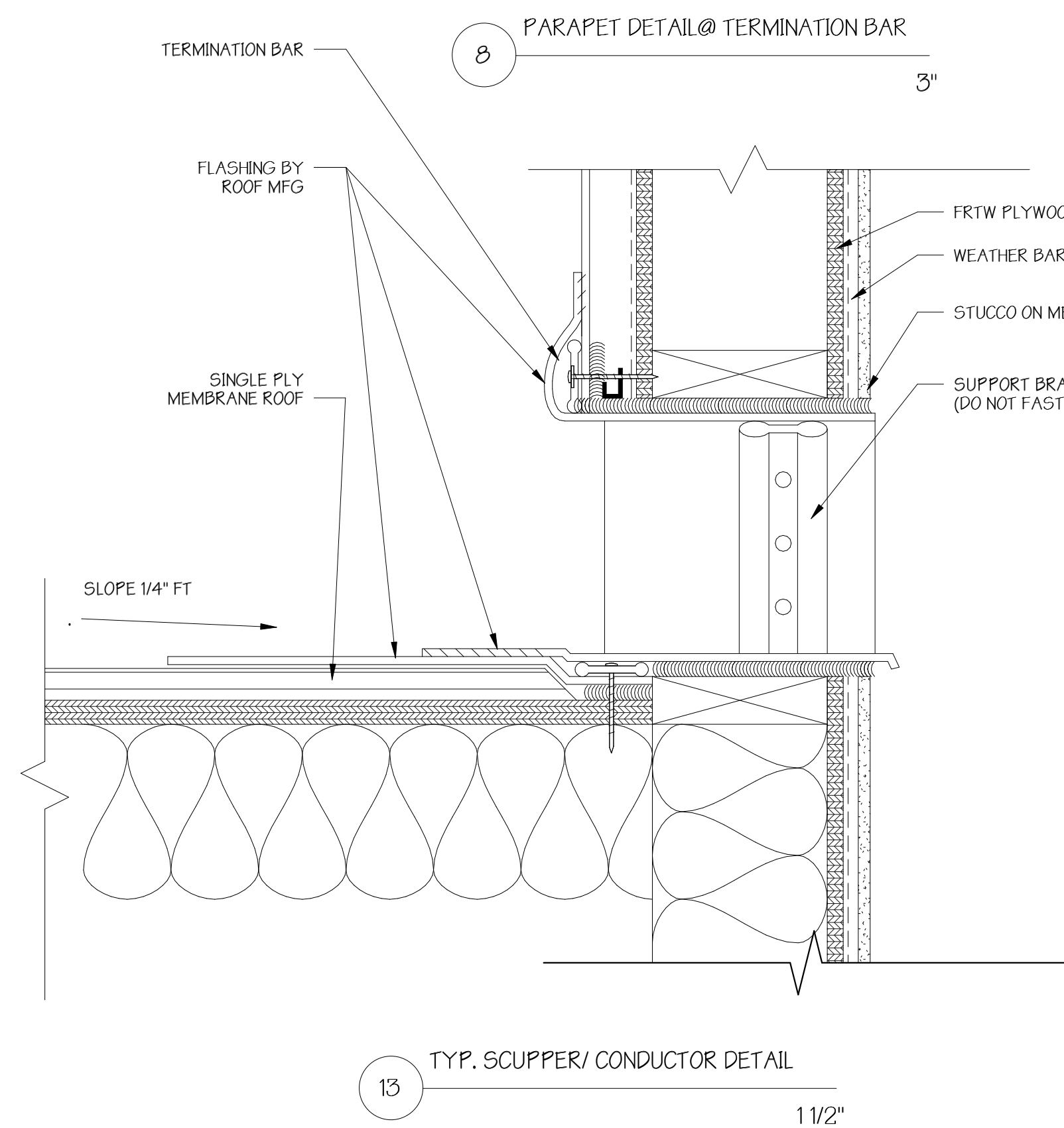
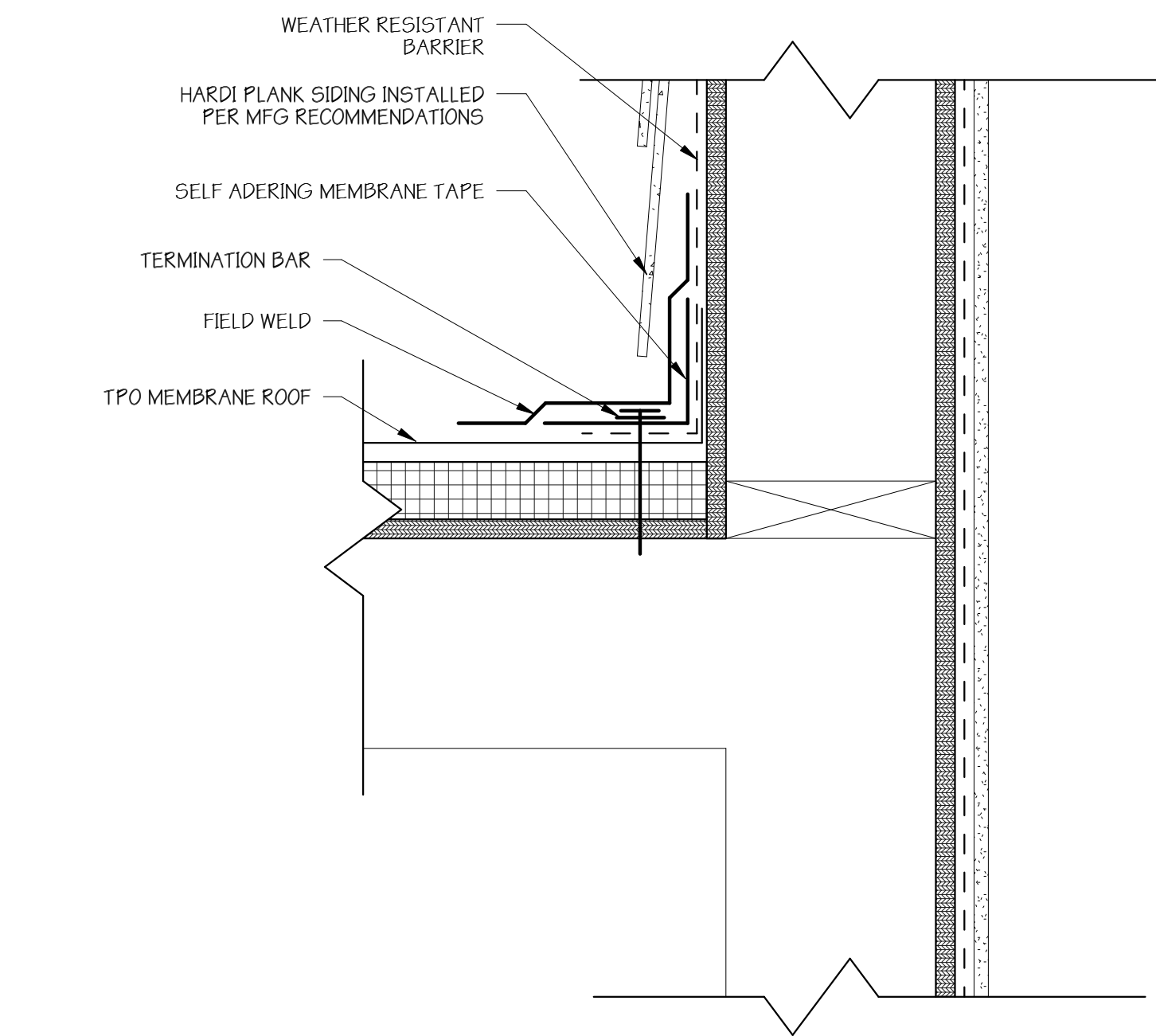
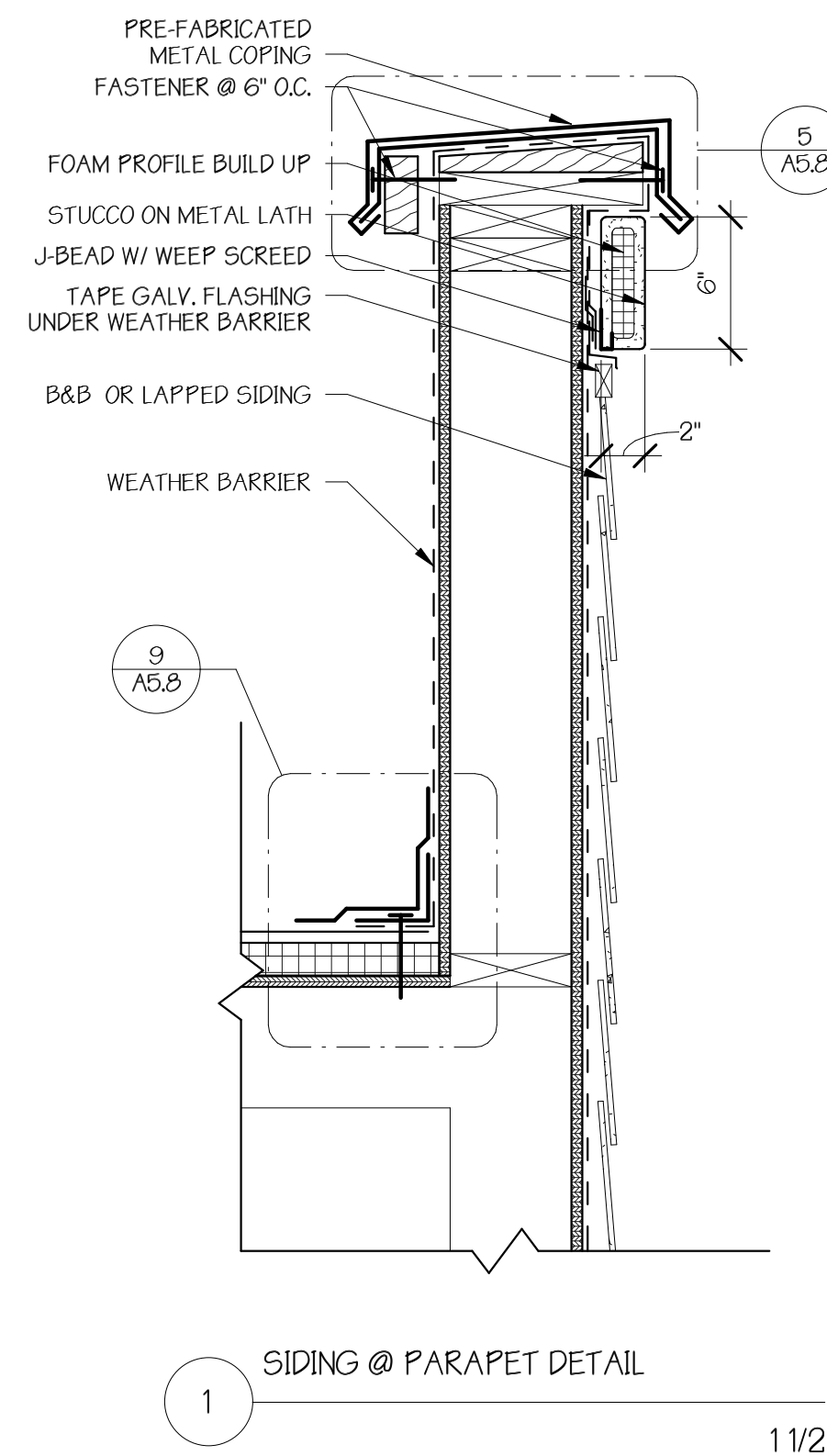
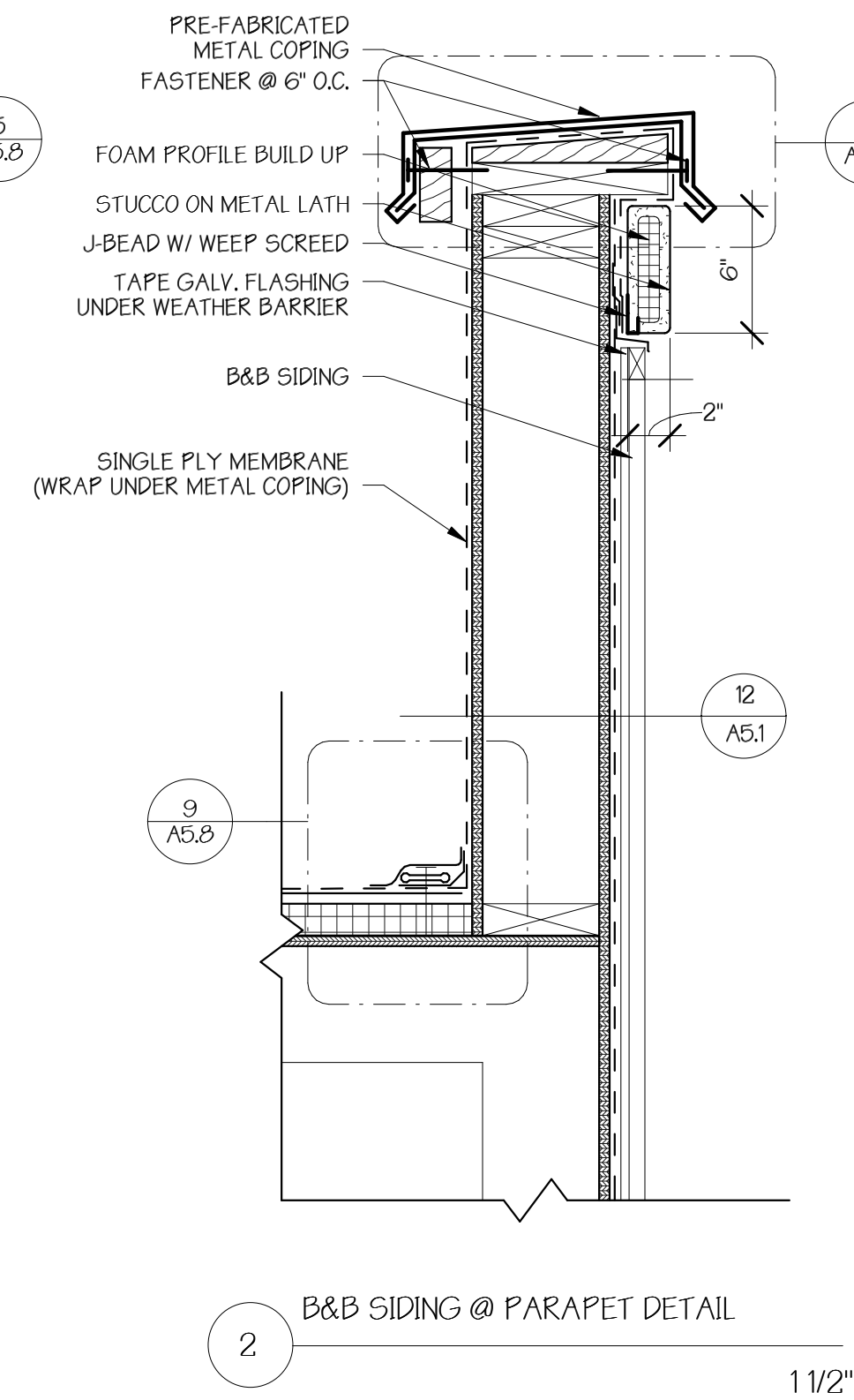
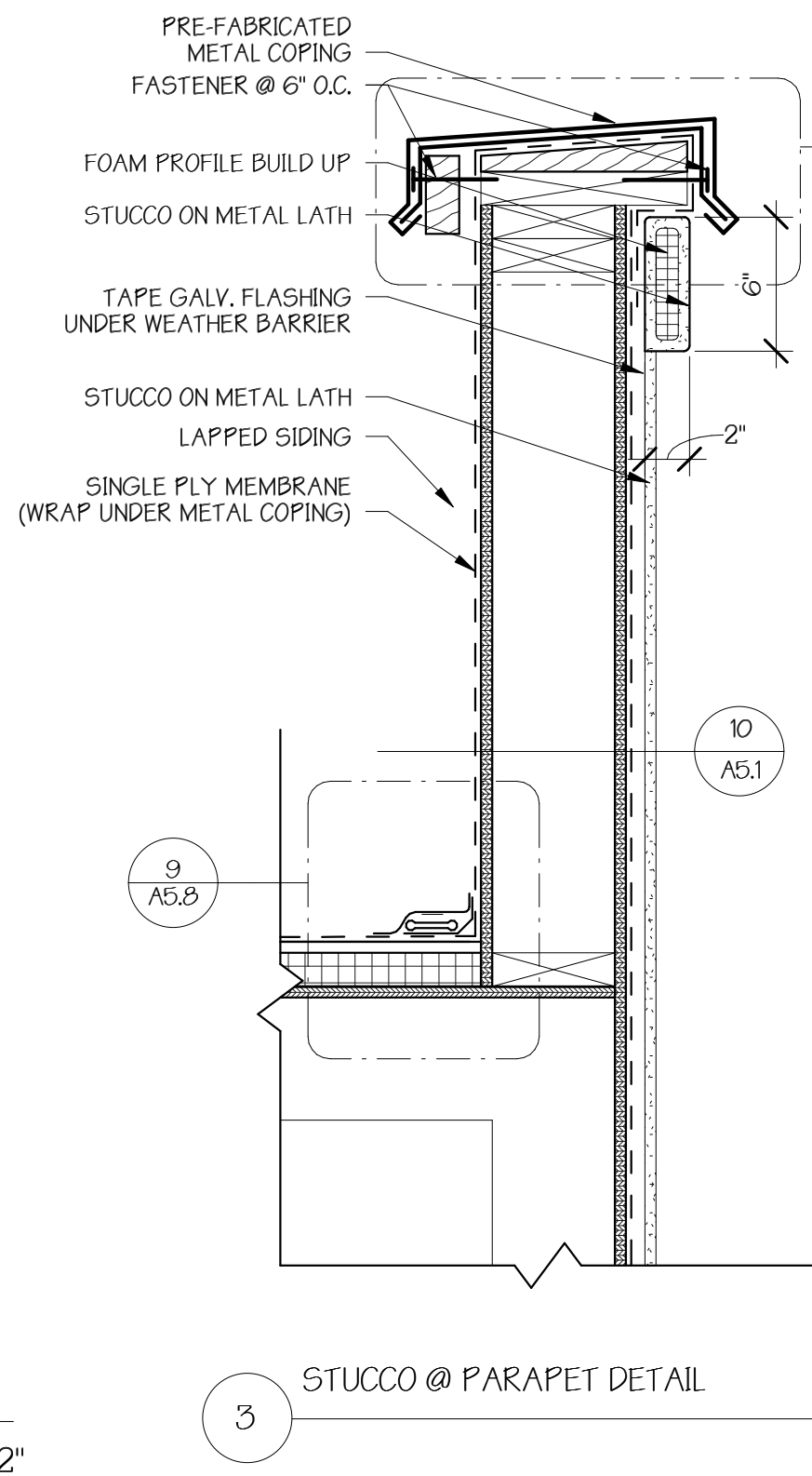
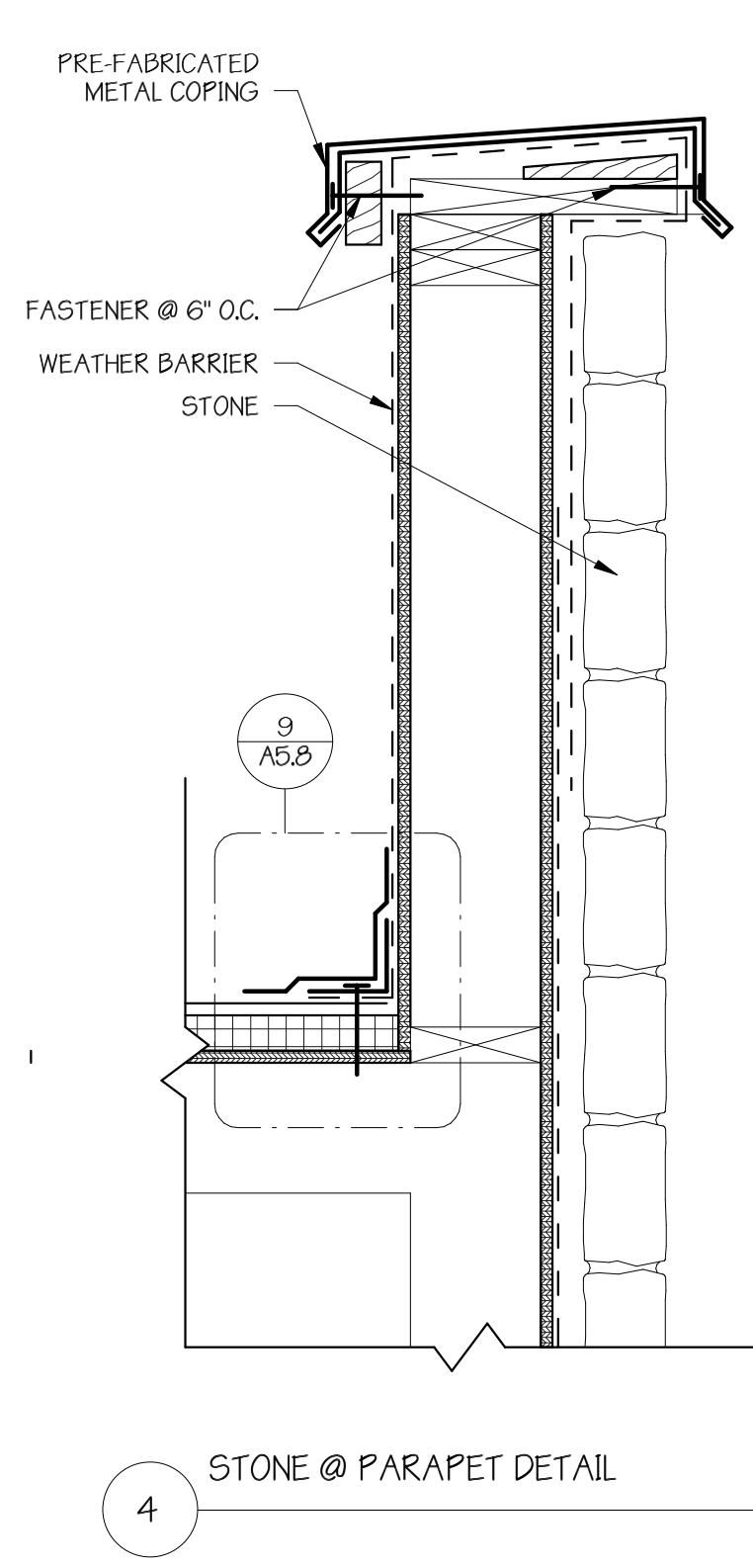
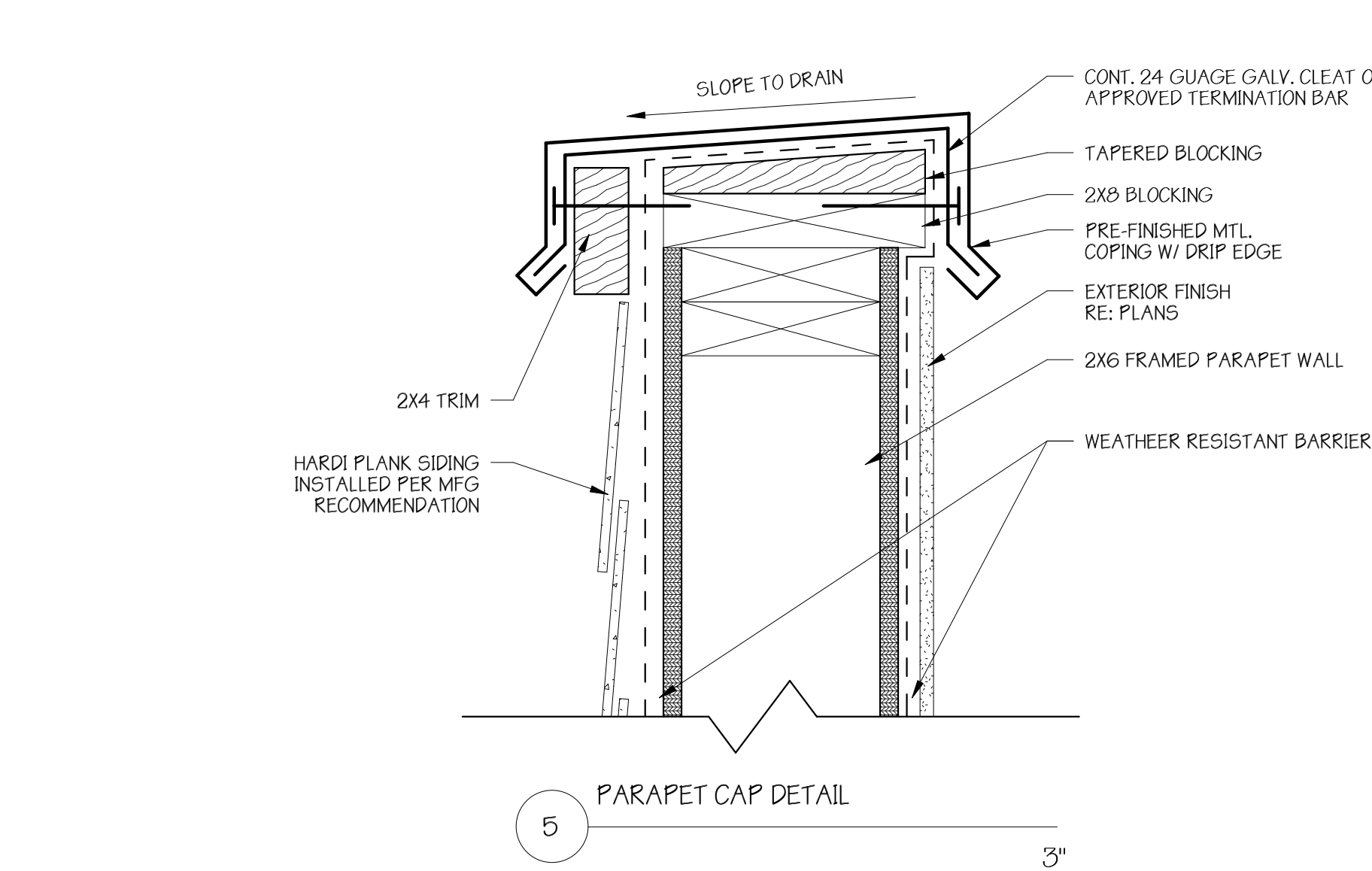
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 CHECKED BY: JMK
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 STATE OF TEXAS
 9383

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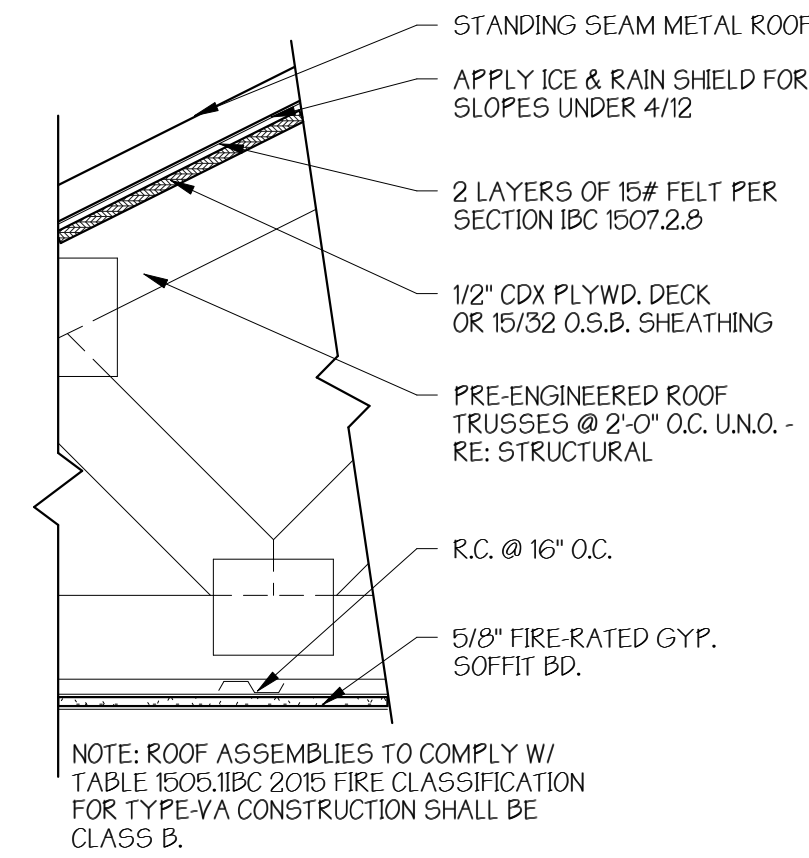
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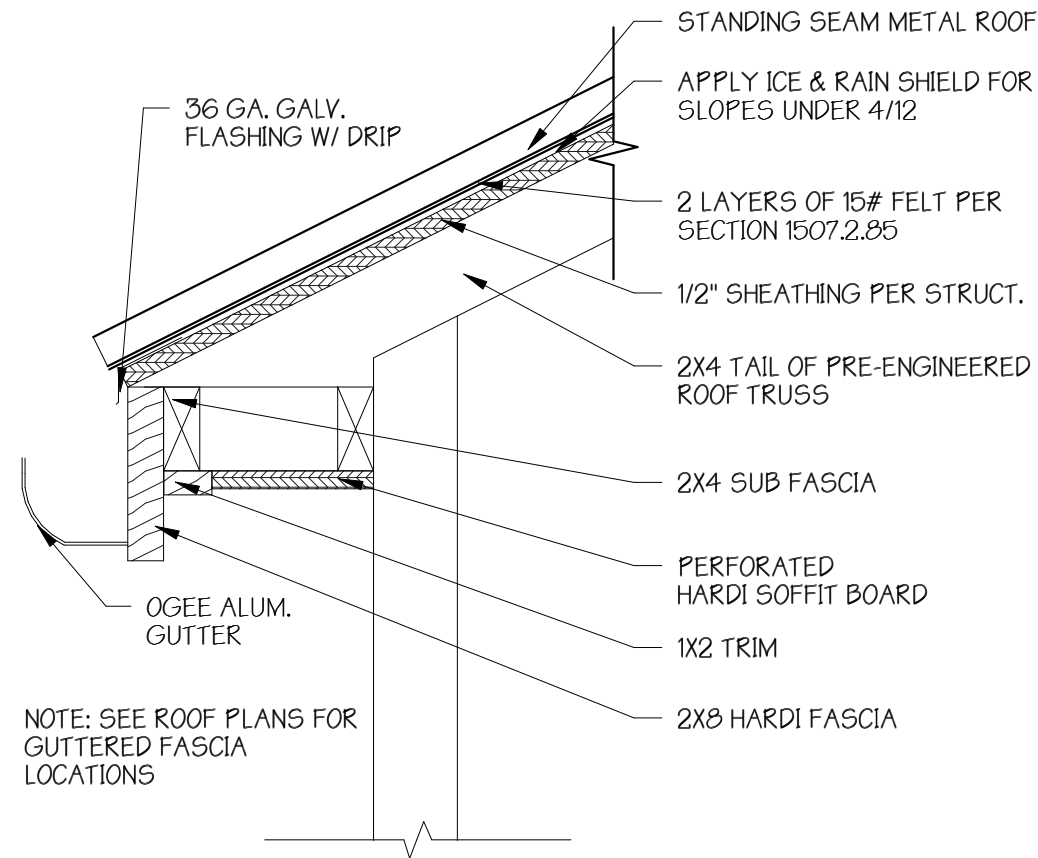
MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

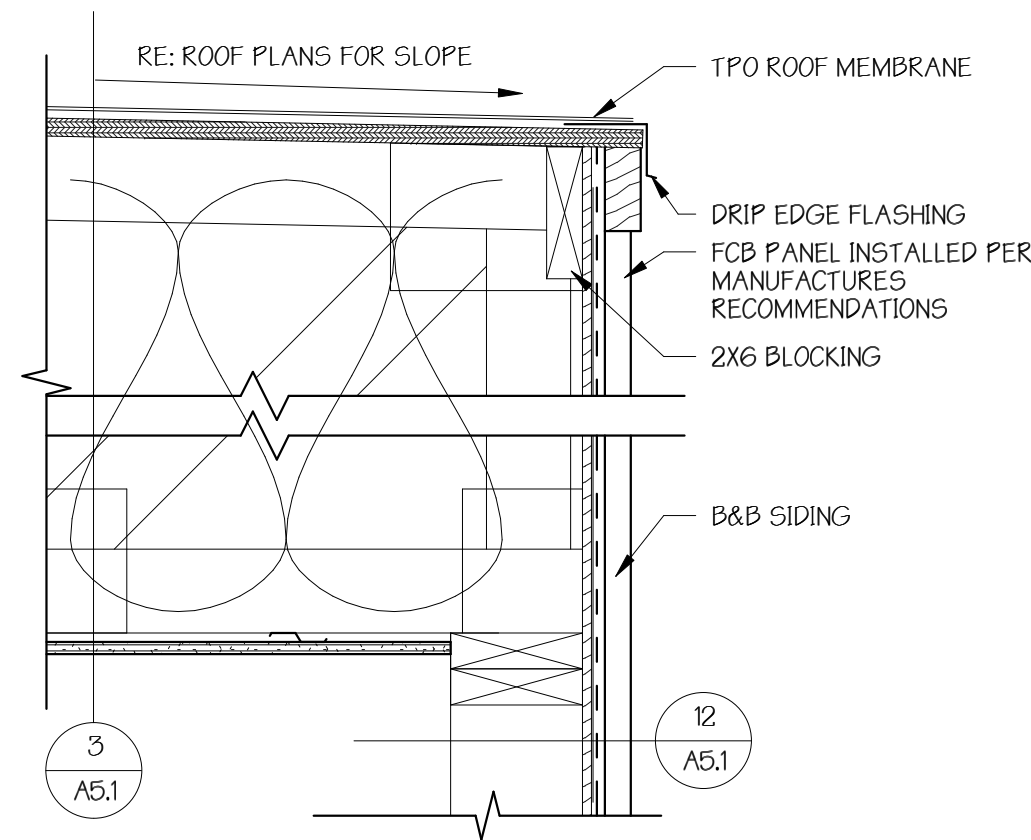
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06-10-2019		
ISSUED FOR BID		
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DWG NAME		
DATE		
07-31-2018		
DESCRIPTION		
ROOF DETAILS		
SHEET		
A5.8		



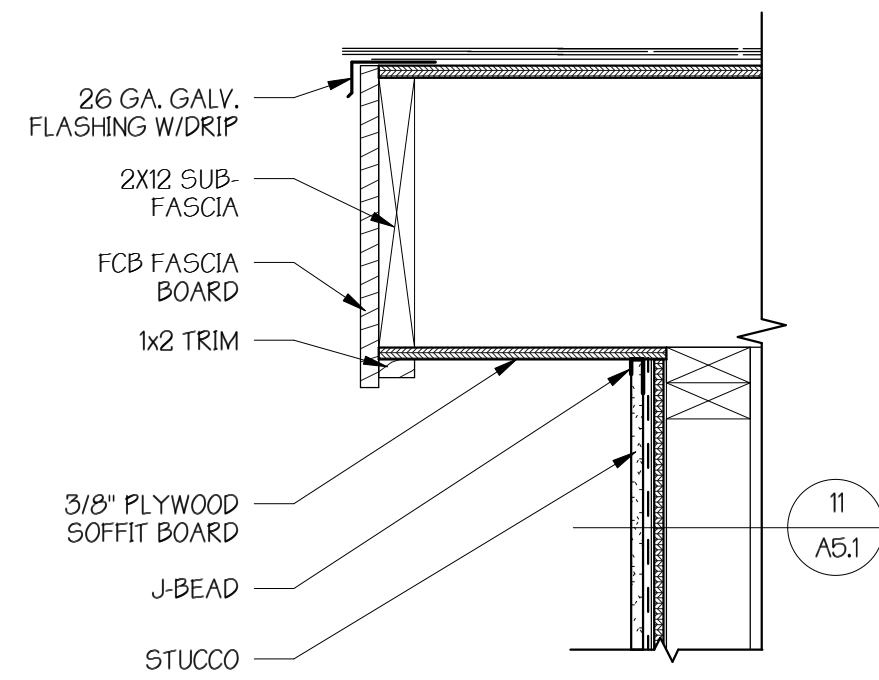
2 TYP. EXTERIOR ROOF/CEILING ASSEMBLY
UL-P522 @ SPR. CLOSETS 1 1/2" 1 HOUR



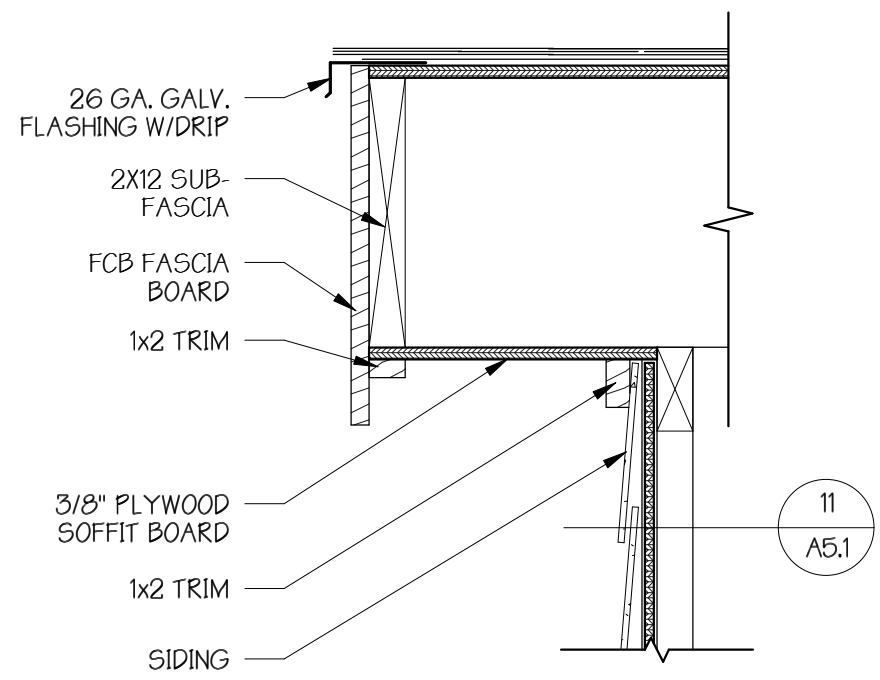
1 TYP. FASCIA & SOFFIT ASSEMBLY
FLAT SOFFIT @ SPR. CLOSETS 1 1/2"



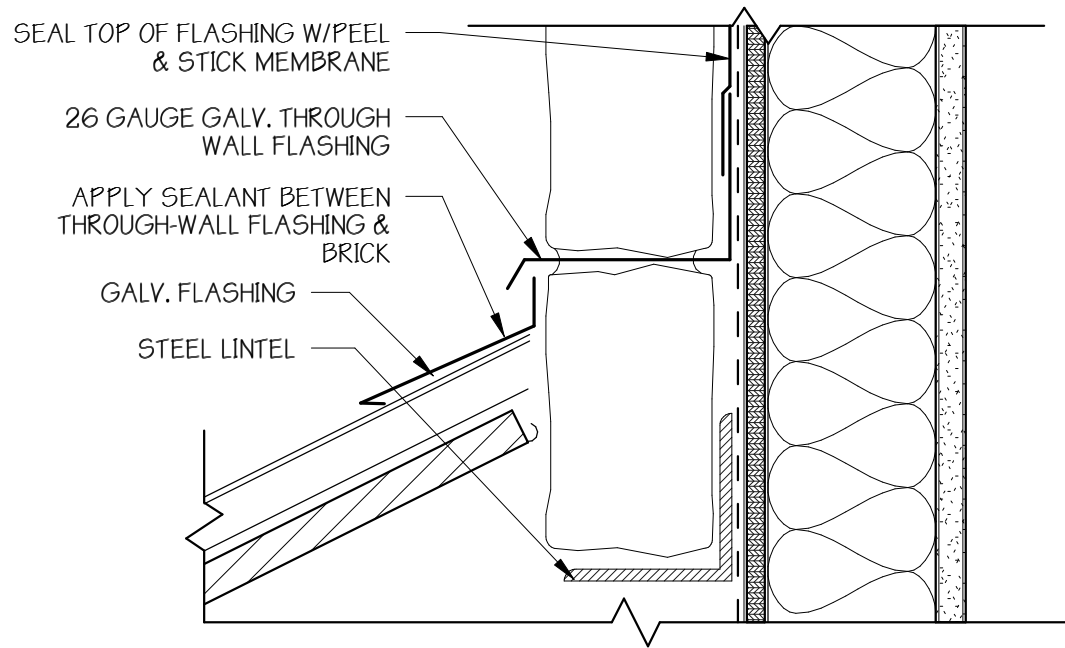
9 ROLL OVER EDGE @ STAIR 1 1/2"



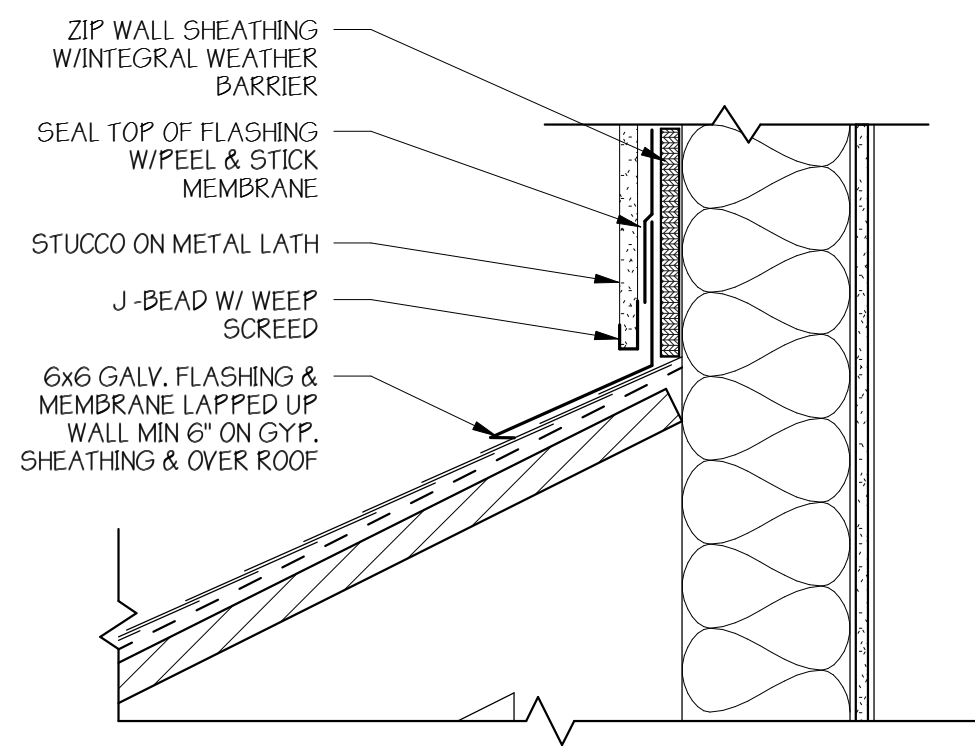
8 RAKE @ STUCCO
FLAT SOFFIT @ ROOF TOWERS 1 1/2"



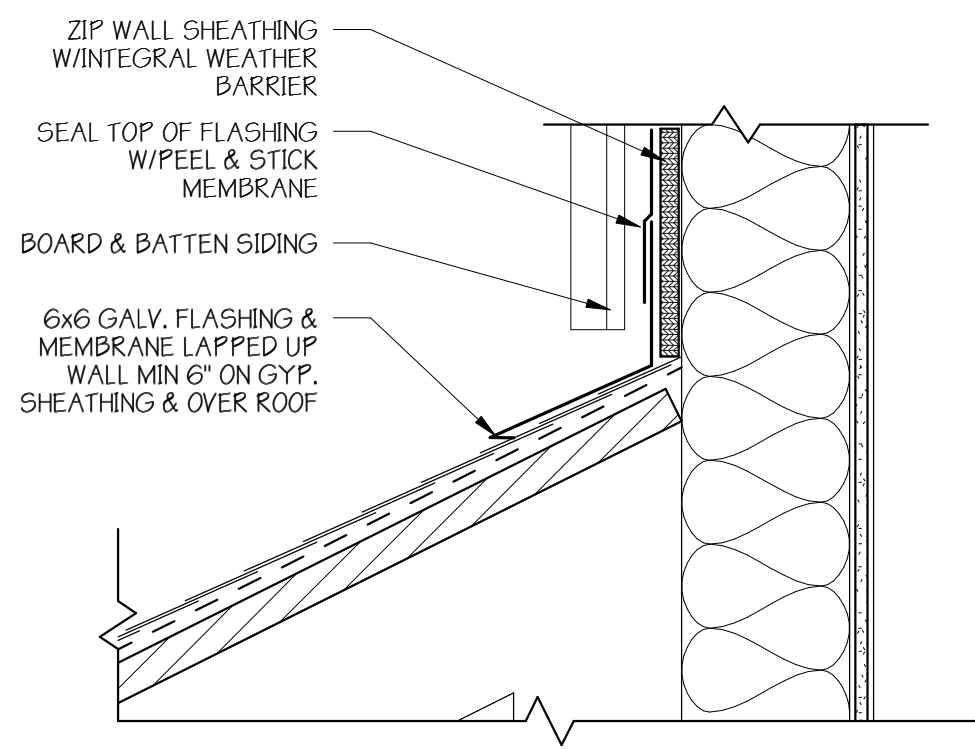
7 RAKE @ SIDING
FLAT SOFFIT @ ROOF TOWERS 1 1/2"



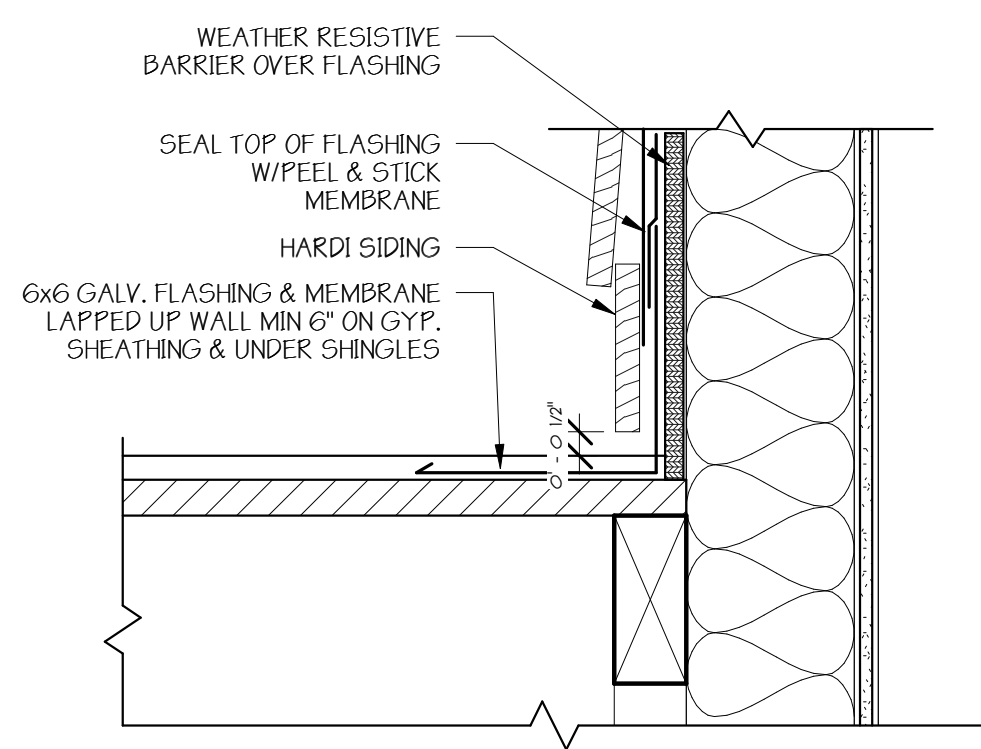
16 ROOF INTERSECTION @ STONE 3"



15 ROOF INTERSECTION @ STUCCO 3"



14 ROOF INTERSECTION @ B&B SIDING 3"



13 ROOF INTERSECTION @ SIDING 3"

DRAWN BY: DPF, MAR
CHECKED BY: JMK
PROJECT #: 18-2325

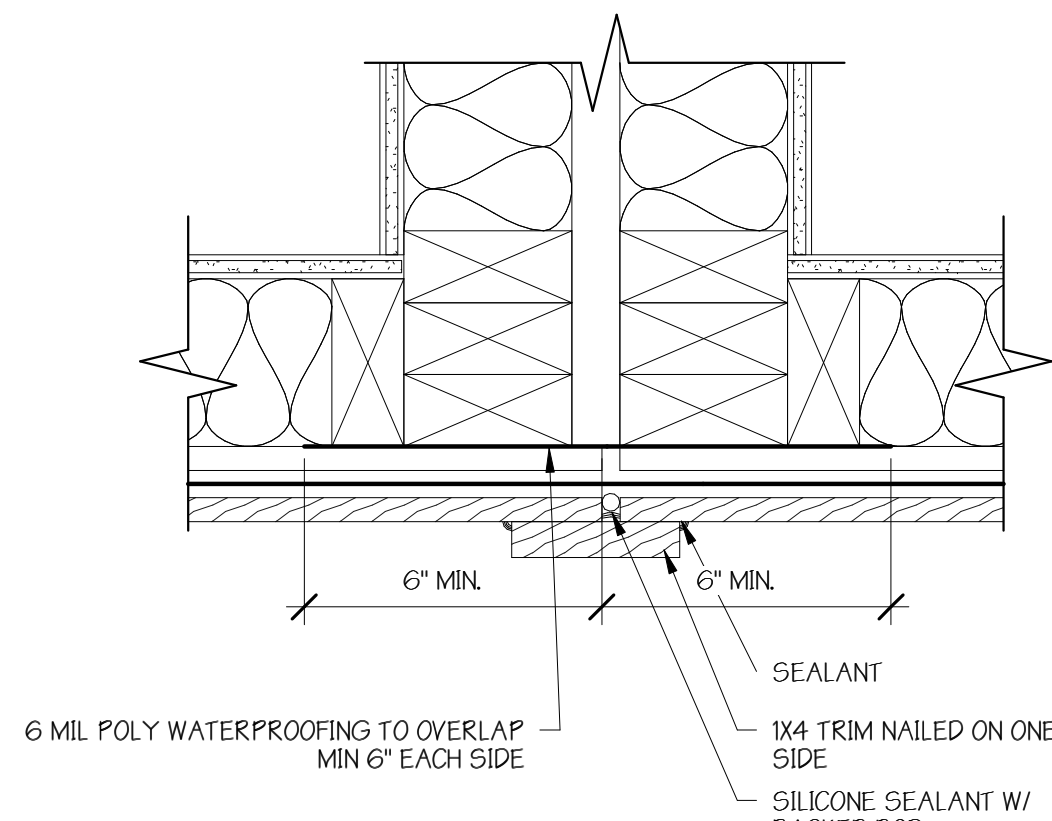
REGISTERED ARCHITECT
STATE OF TEXAS
9383
05/23/19 EXP: 11/30/19

LDG DEVELOPEMENT
1469 SOUTH FOURTH STREET, LOUISVILLE, KY 40208,
(P) 502.609.4940

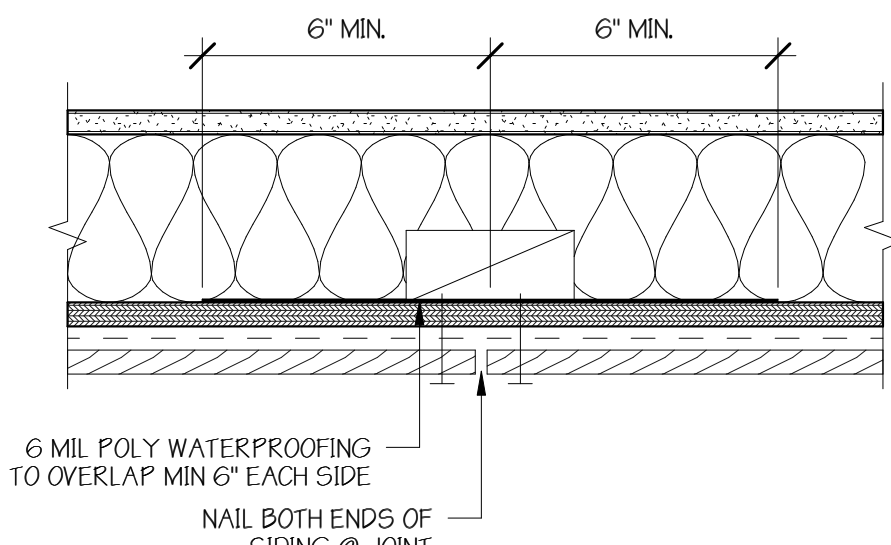
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MOONLIGHT GARDEN
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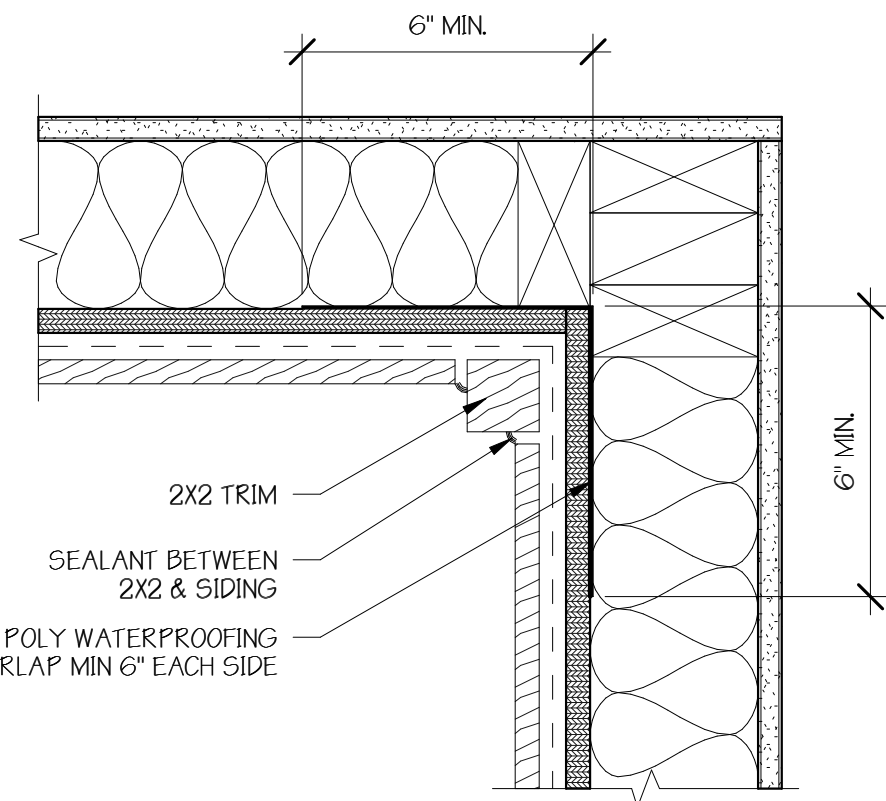
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DATE 05/17/19		
DESCRIPTION ROOF DETAILS		
SHEET A5.8A		



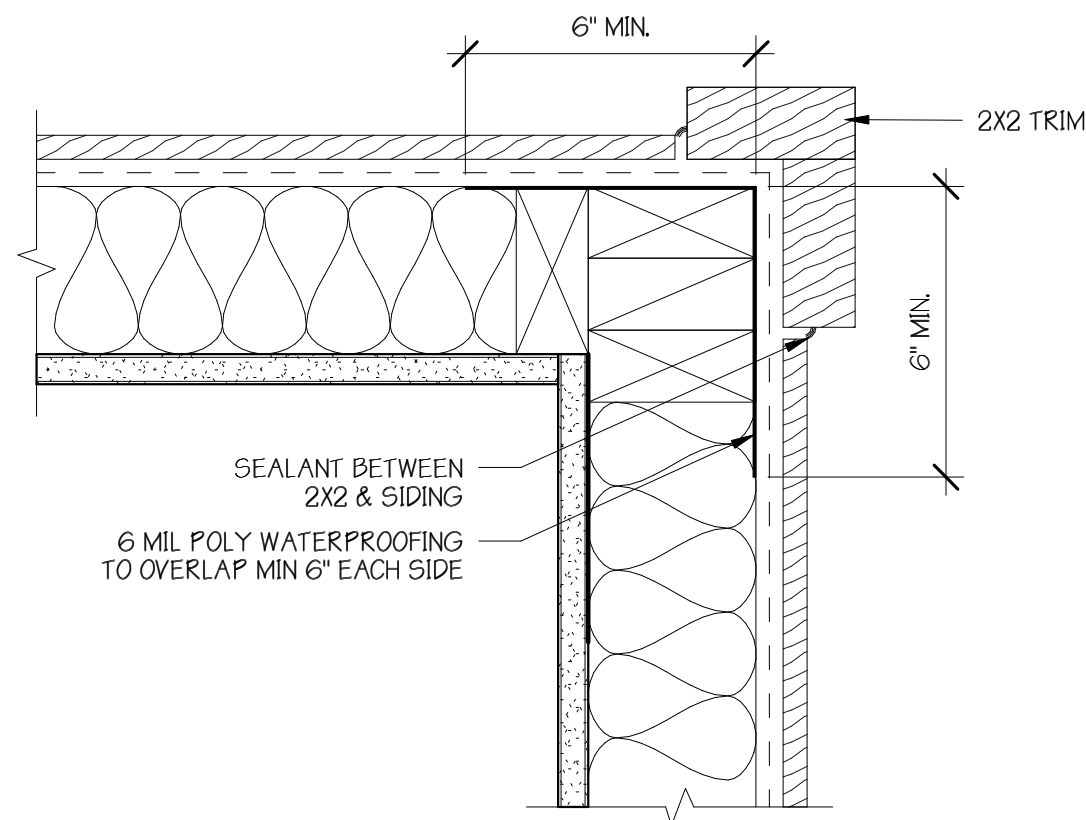
4 SIDING EXPANSION JOINT
3"



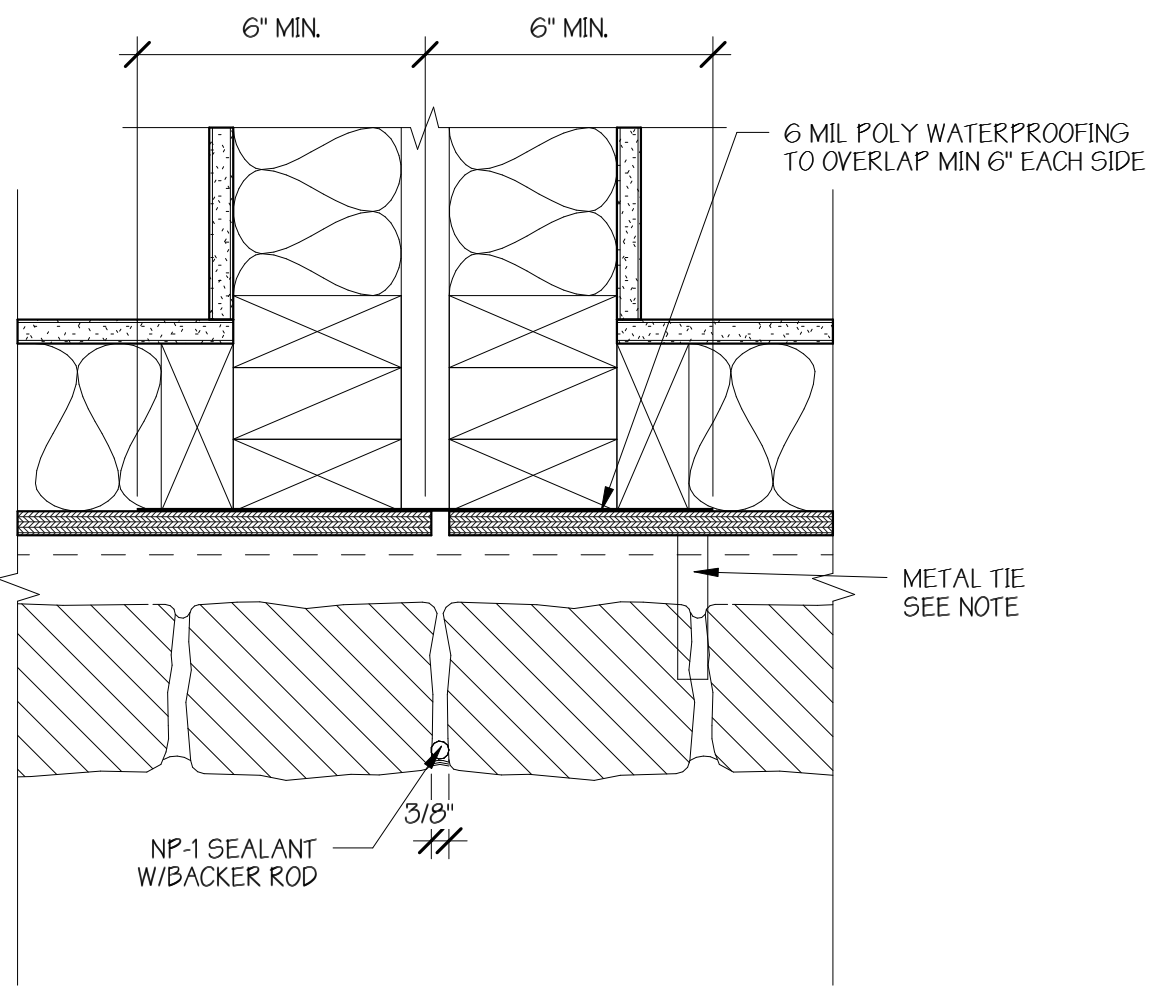
3 SIDING CONTROL JOINT
3"



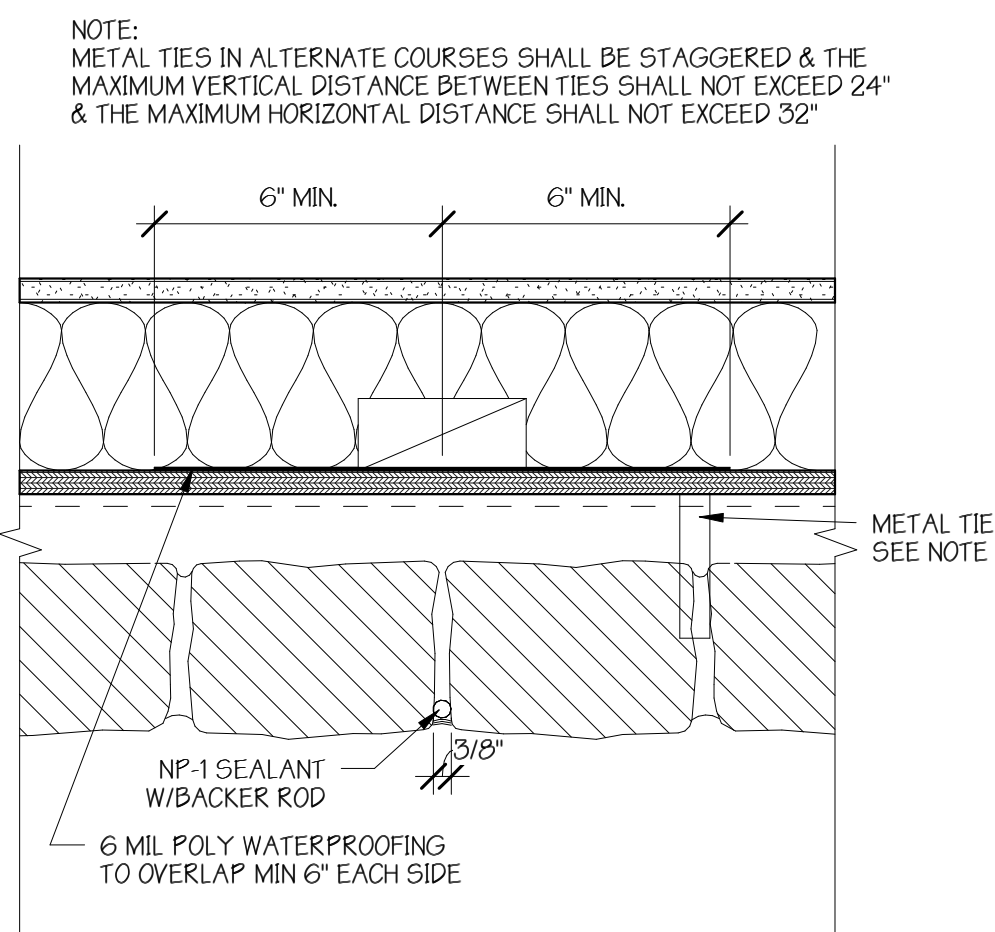
2 SIDING @ INT. CORNER
PLAN VIEW
3"



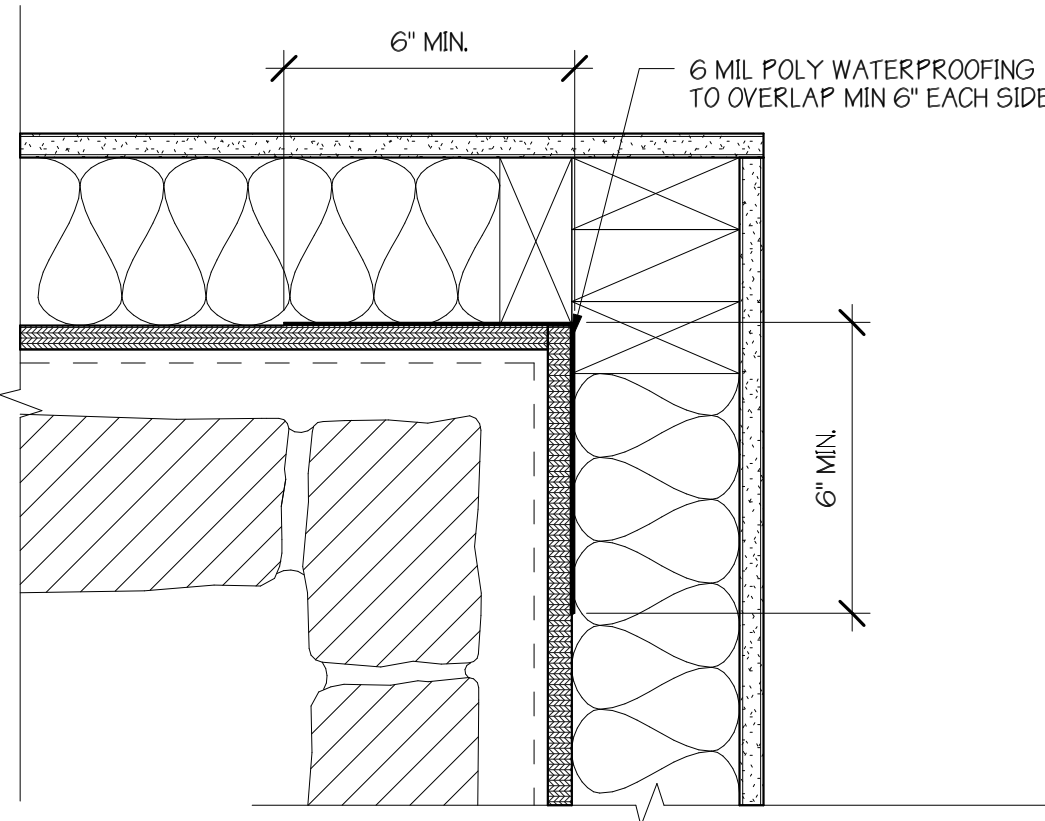
1 SIDING @ EXT. CORNER
PLAN VIEW
3"



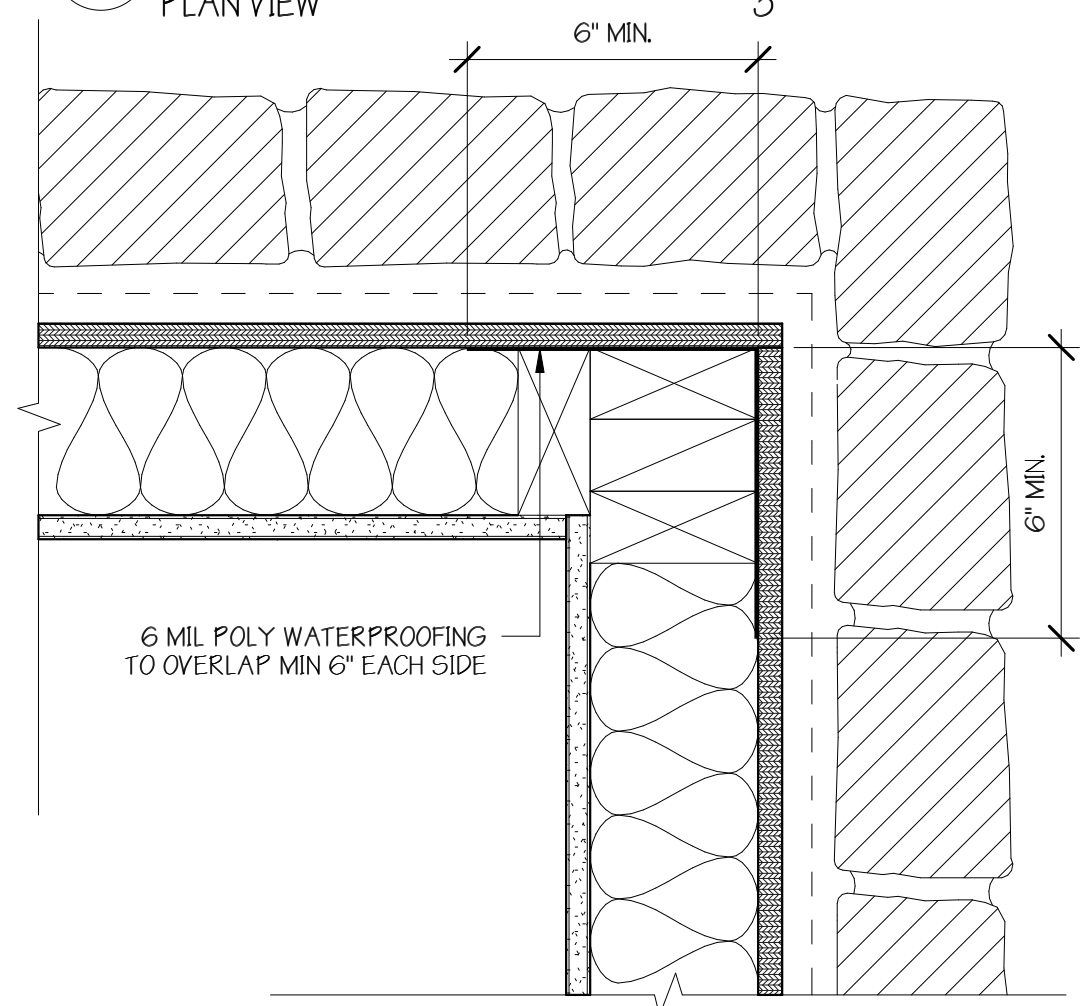
9 STONE EXPANSION JOINT
@ TENANT SEPARATION
3"



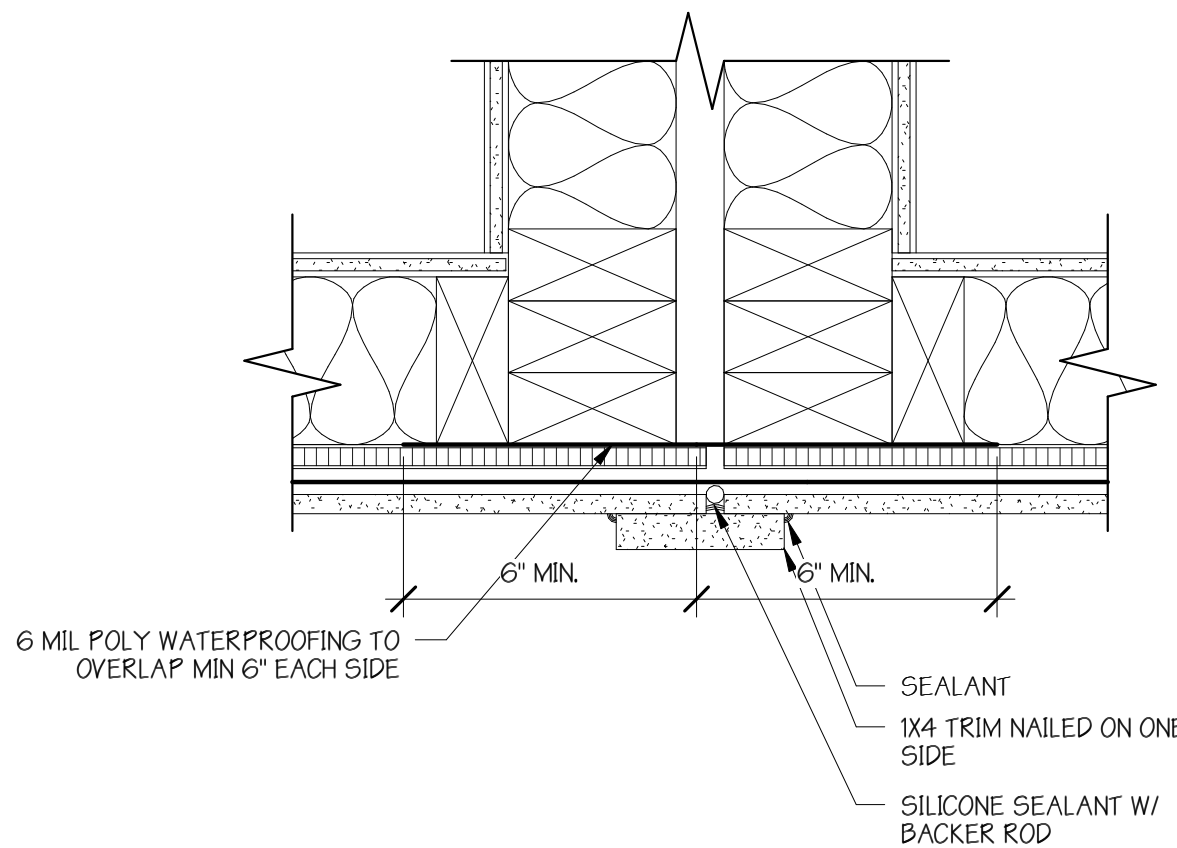
8 STONE CONTROL JOINT
3"



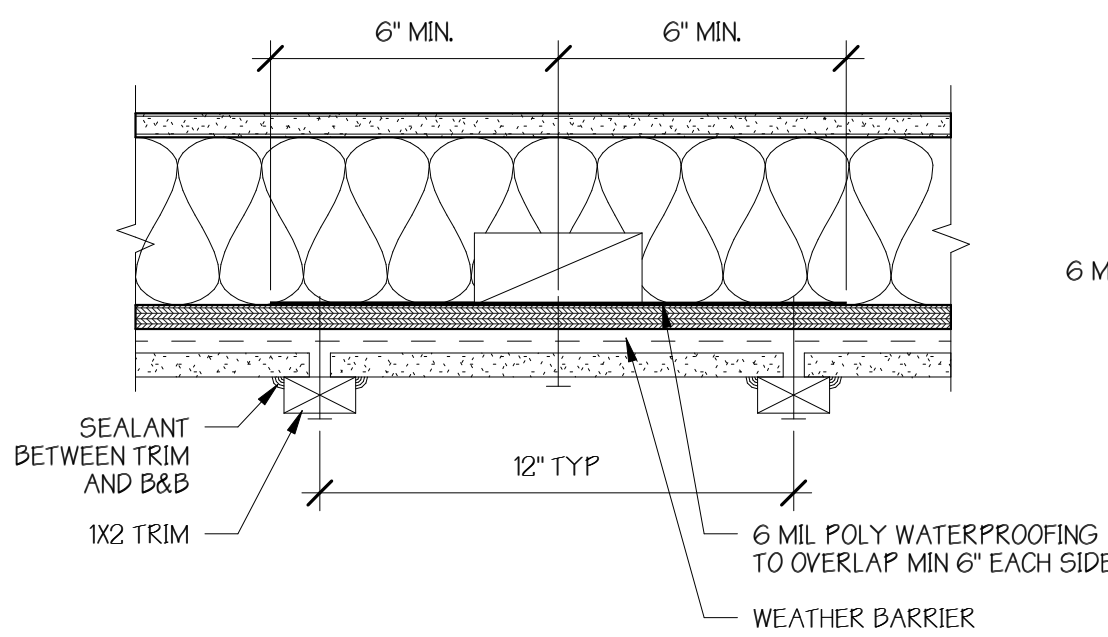
7 STONE @ INT. CORNER
PLAN VIEW
3"



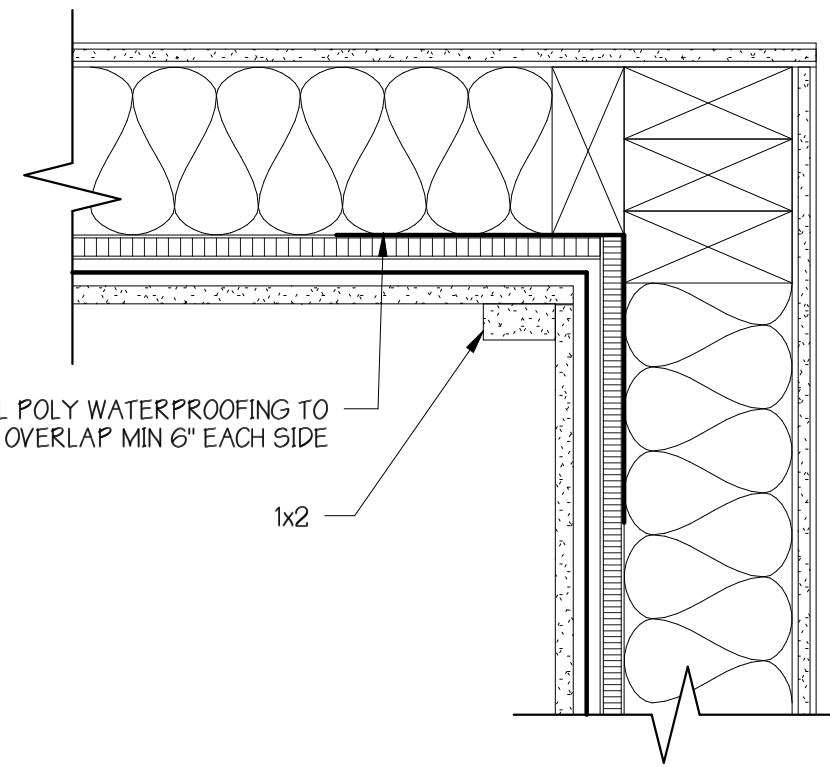
6 STONE @ EXT. CORNER
PLAN VIEW
3"



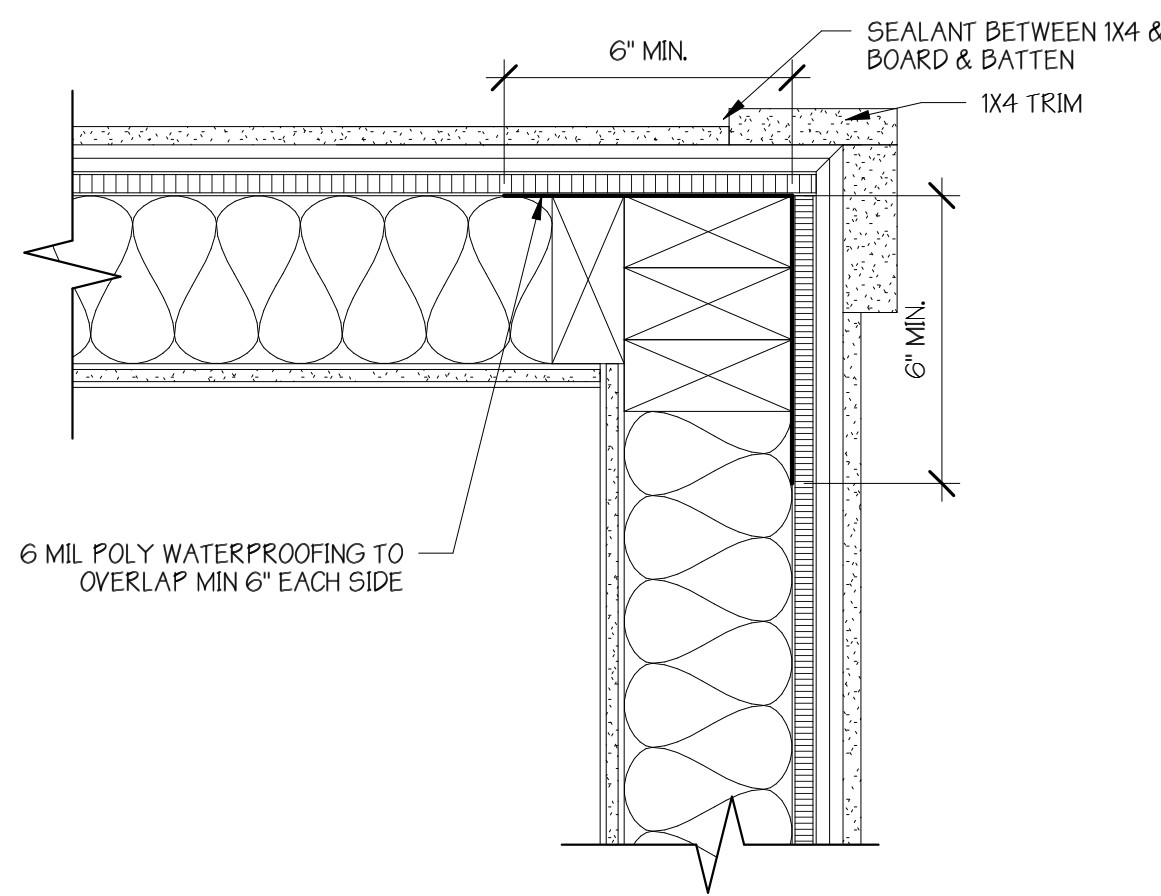
14 BOARD & BATTEN @ EXPANSION JOINT
@ TENANT SEPARATION
3"



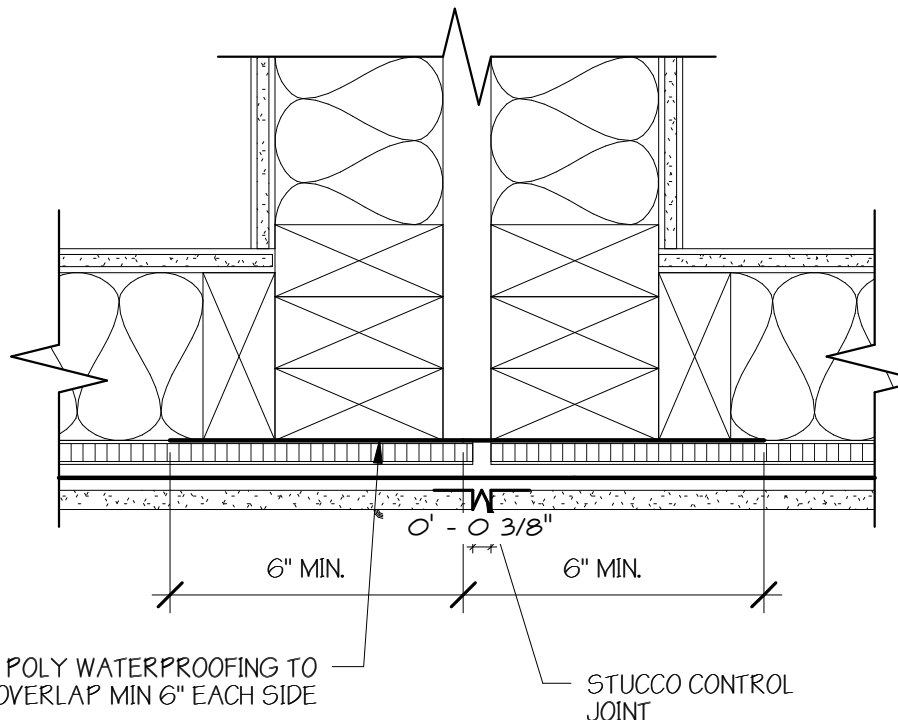
13 BOARD & BATTEN CONTROL JOINT
3"



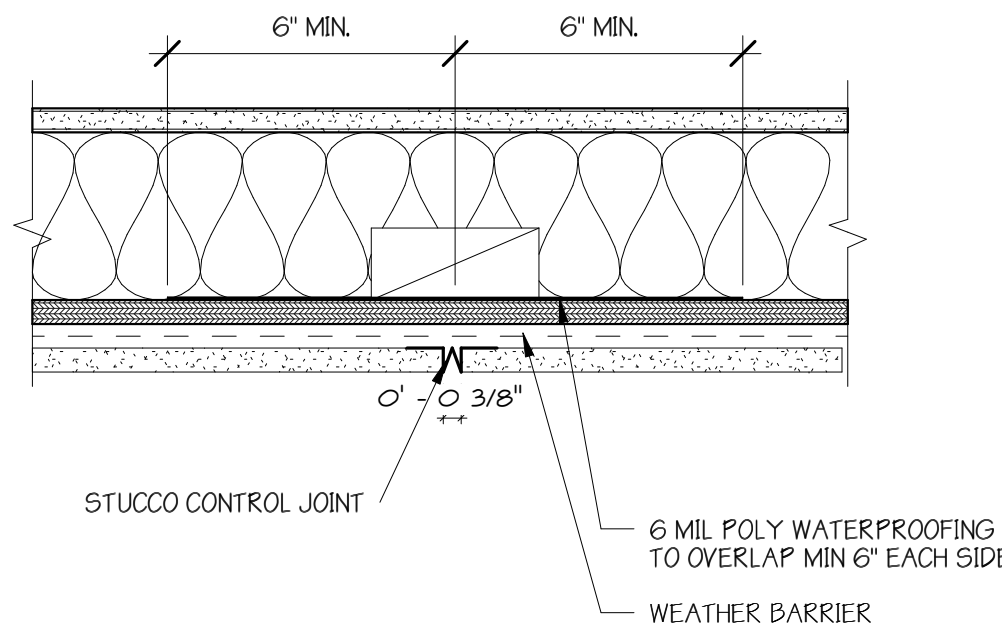
12 BOARD & BATTEN @ INT. CORNER
3"



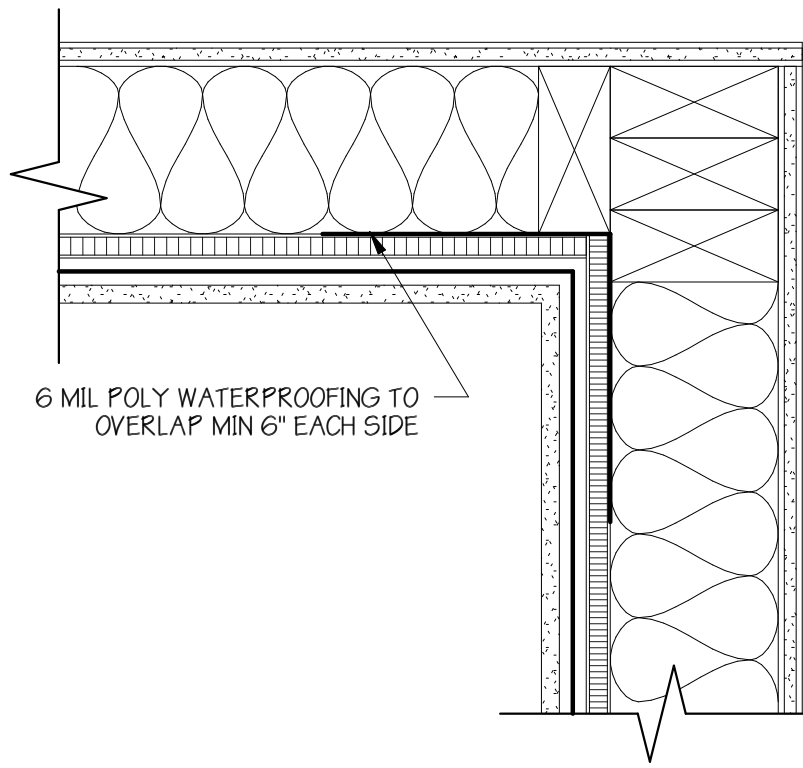
11 BOARD & BATTEN @ EXT. CORNER
3"



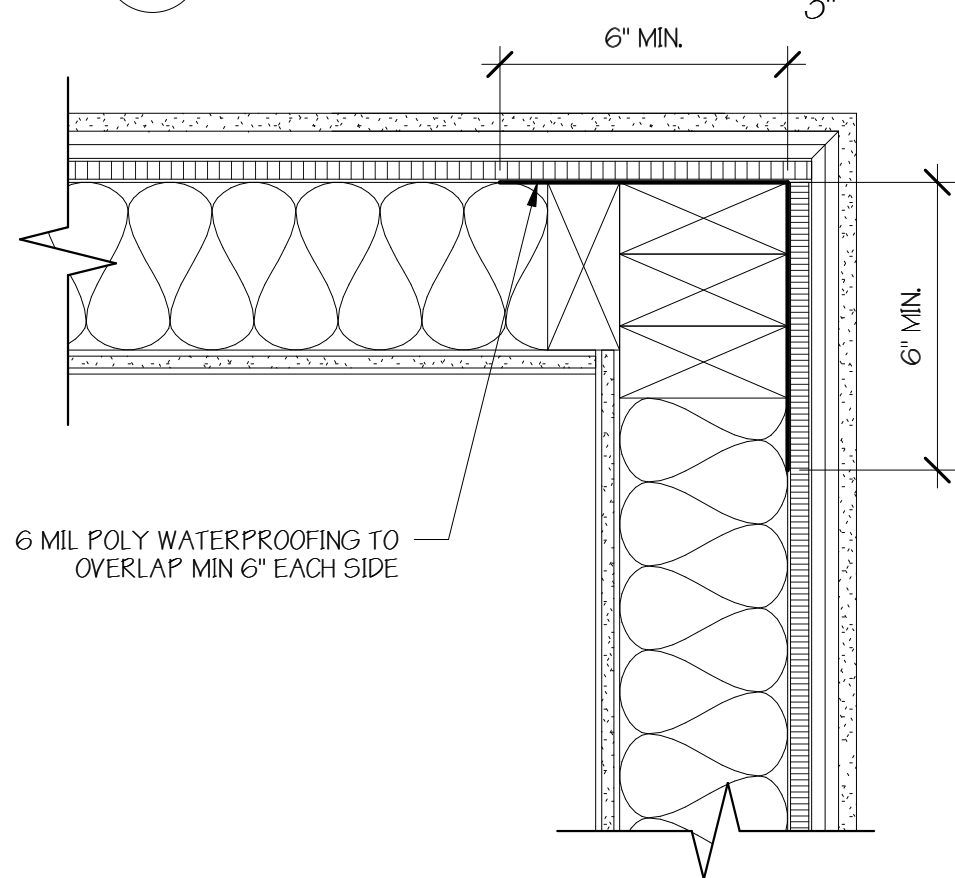
19 STUCCO @ EXPANSION JOINT
@ TENANT SEPARATION
3"



18 STUCCO CONTROL JOINT
3"



17 STUCCO @ INT. CORNER
3"



16 STUCCO @ EXT. CORNER
3"

DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

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STATE OF TEXAS
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EXP: 11/30/19

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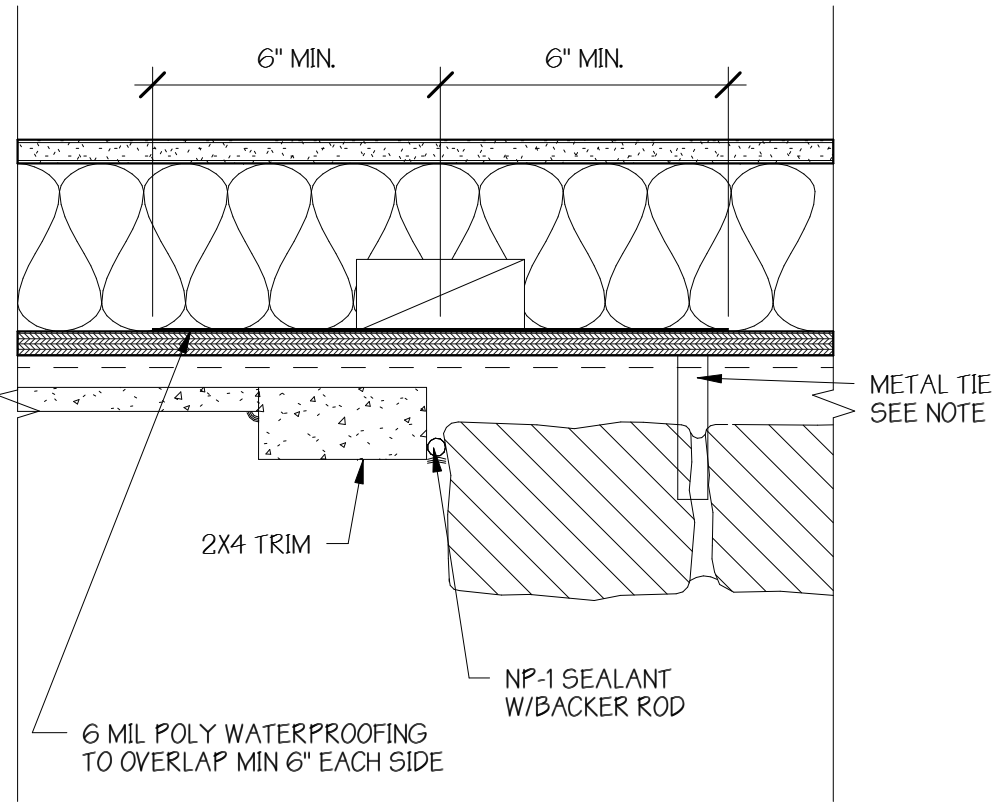
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MOONLIGHT GARDEN

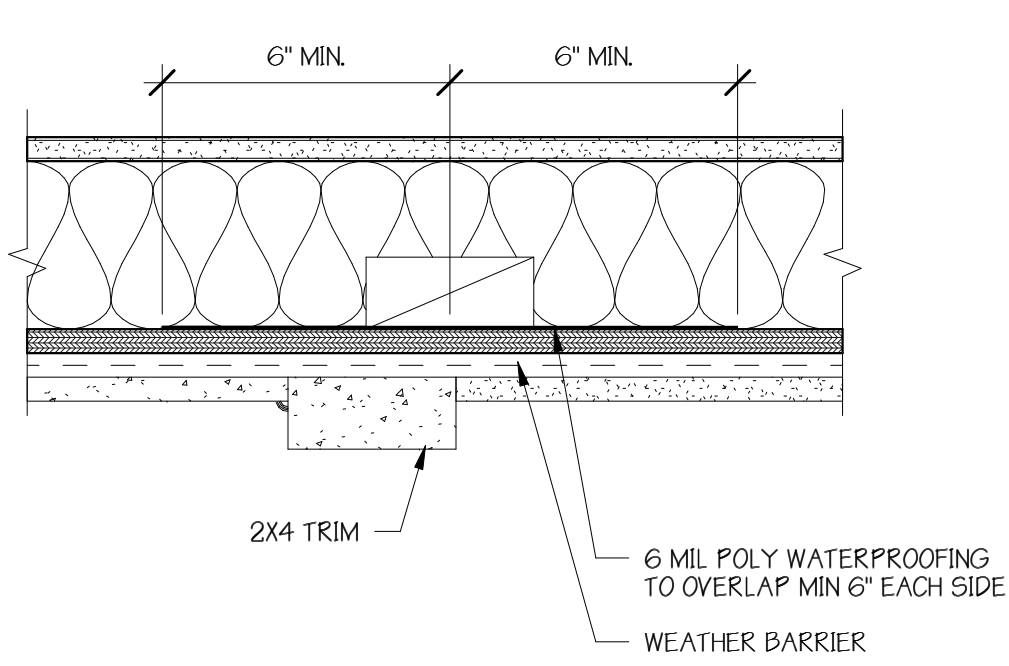
8901 NUCKOLIS CROSSING RD, AUSTIN TX
78747

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ISSUED FOR CONSTRUCTION		
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DATE		
07-31-2018		
DESCRIPTION		
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SHEET		
A5.9		

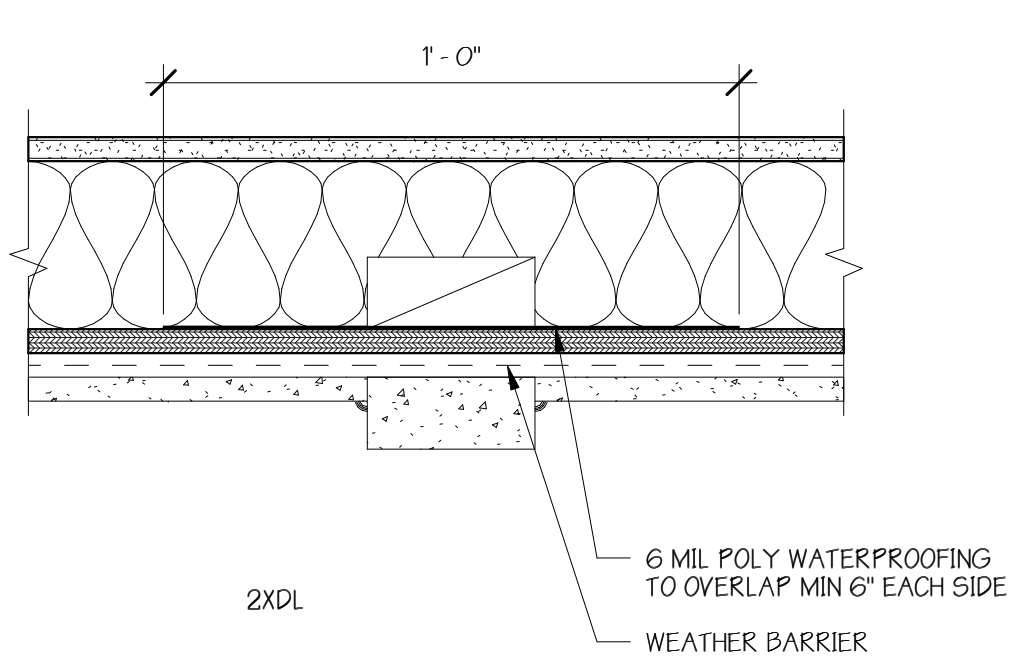
NOTE:
METAL TIES IN ALTERNATE COURSES SHALL BE STAGGERED & THE
MAXIMUM VERTICAL DISTANCE BETWEEN TIES SHALL NOT EXCEED 24"
& THE MAXIMUM HORIZONTAL DISTANCE SHALL NOT EXCEED 32"



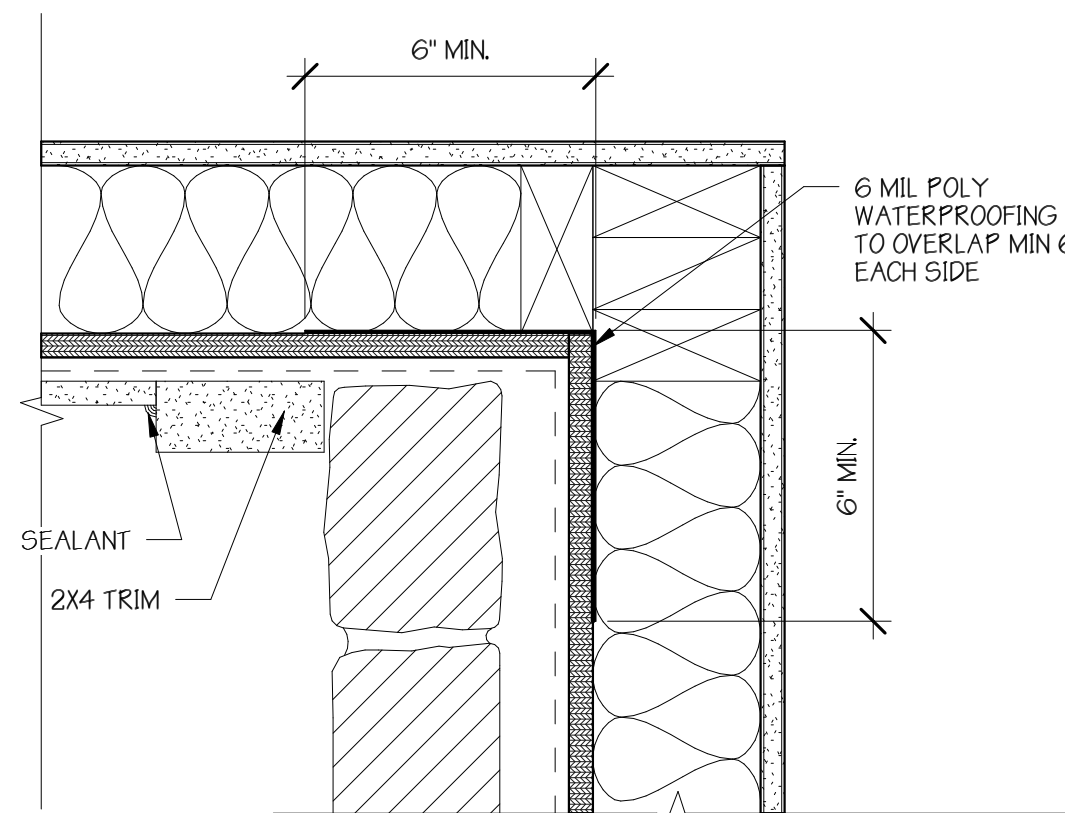
3 LAP SIDING/STONE CONTROL JOINT



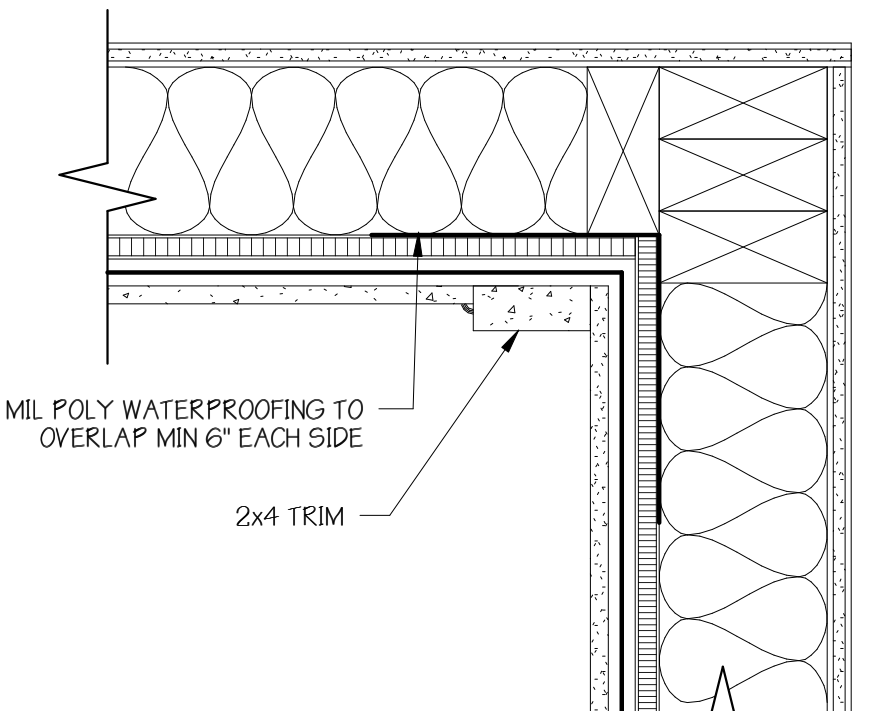
2 LAP SIDING/STUCCO CONTROL JOINT



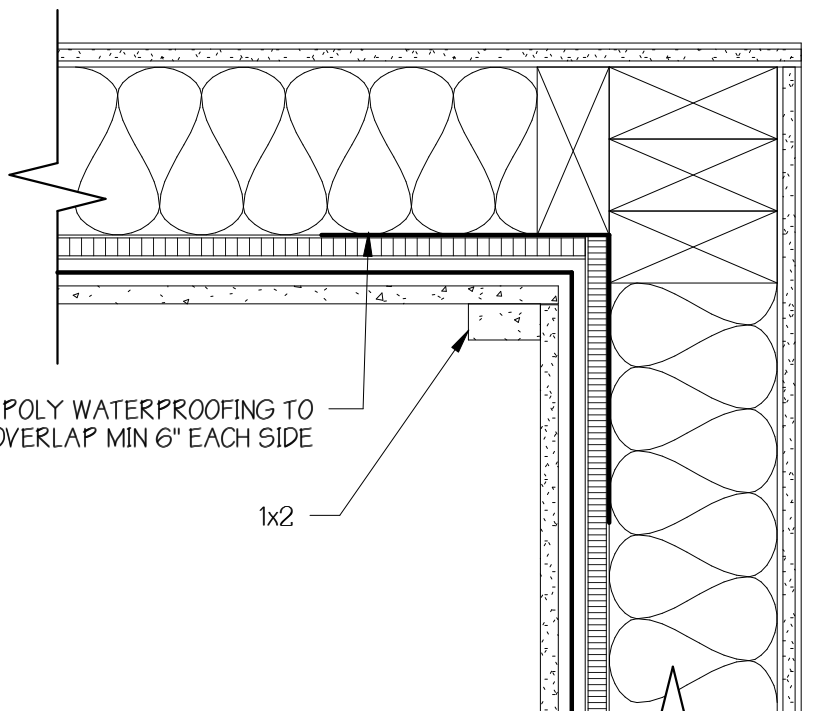
1 LAP SIDING/B&B SIDING CONTROL JOINT



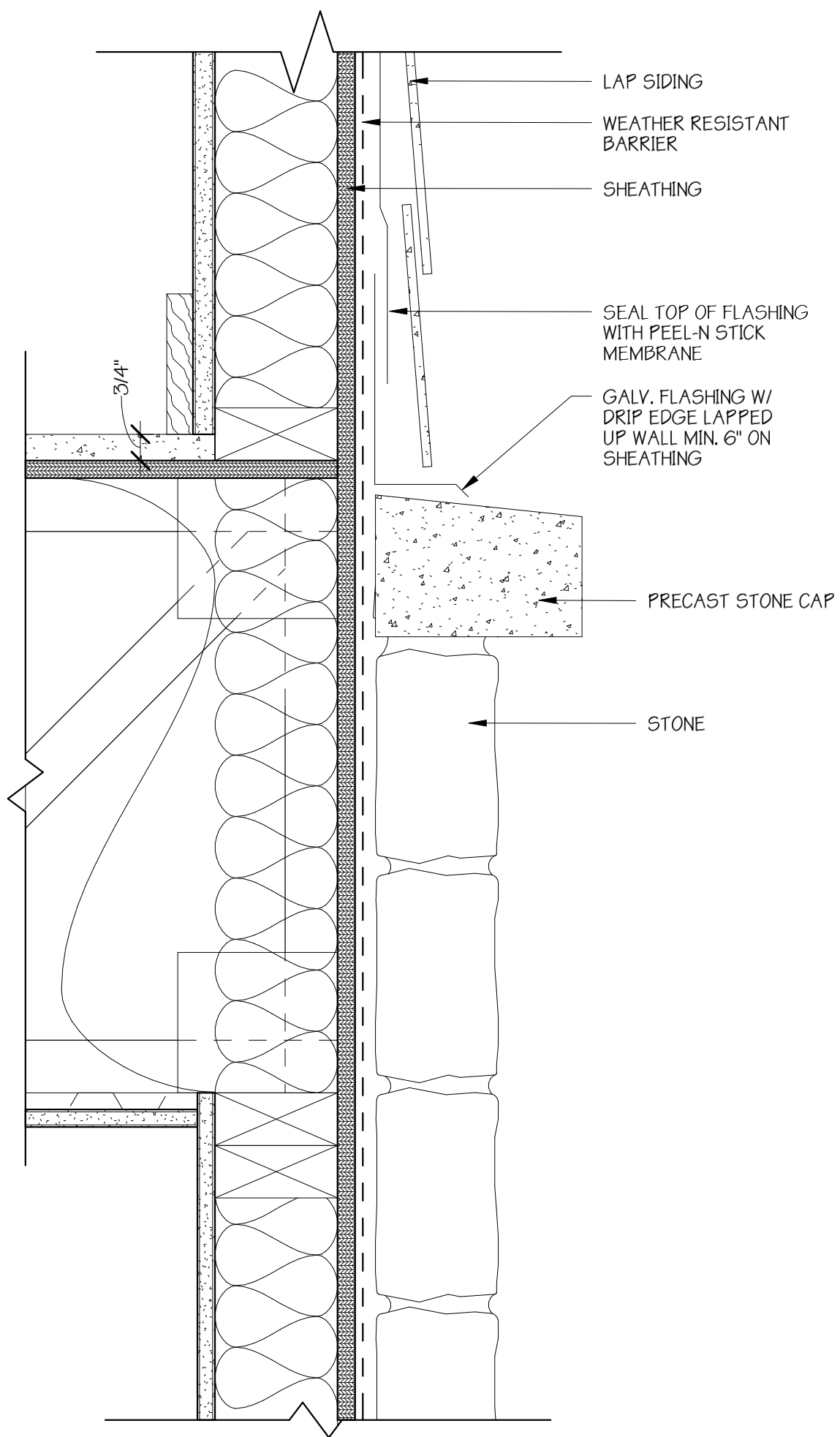
8 STONE/B&B OR LAP SIDING @ INT. CORNER



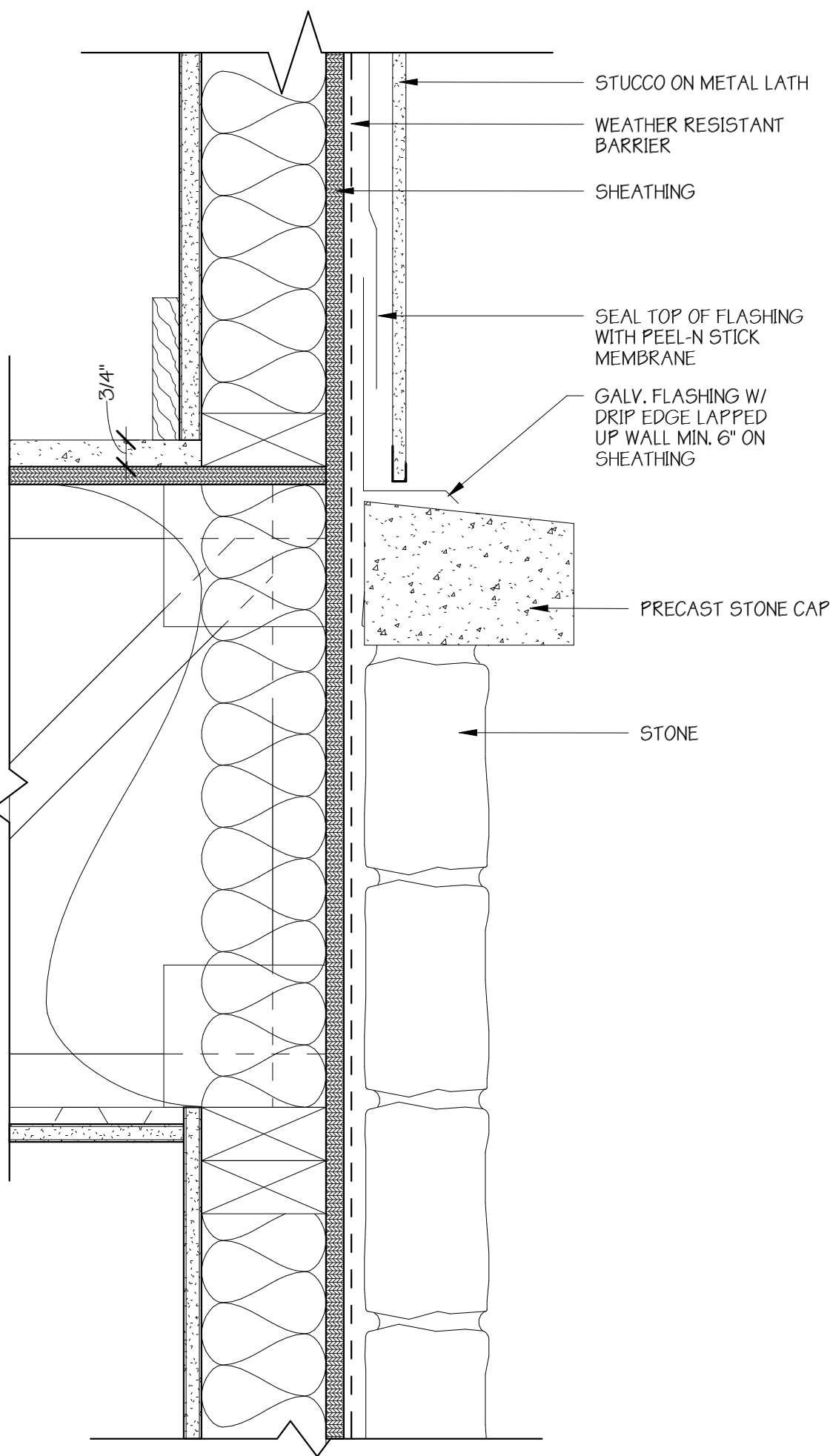
7 LAP SIDING/STUCCO @ INT. CORNER



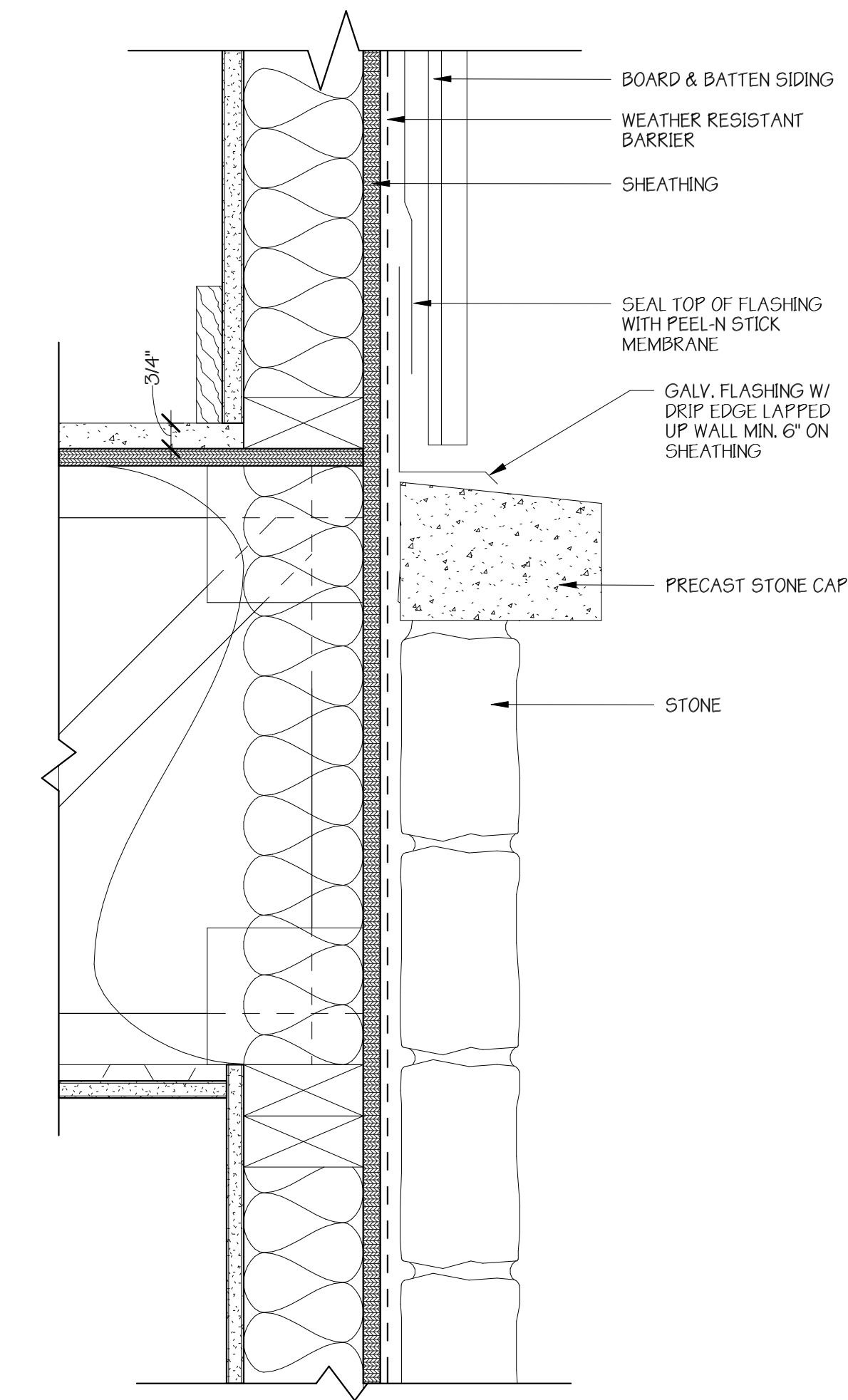
6 B&B SIDING/STUCCO @ INT. CORNER



17 SIDING/STONE TRANSITION



16 STUCCO/STONE TRANSITION



15 B&B SIDING/STONE TRANSITION

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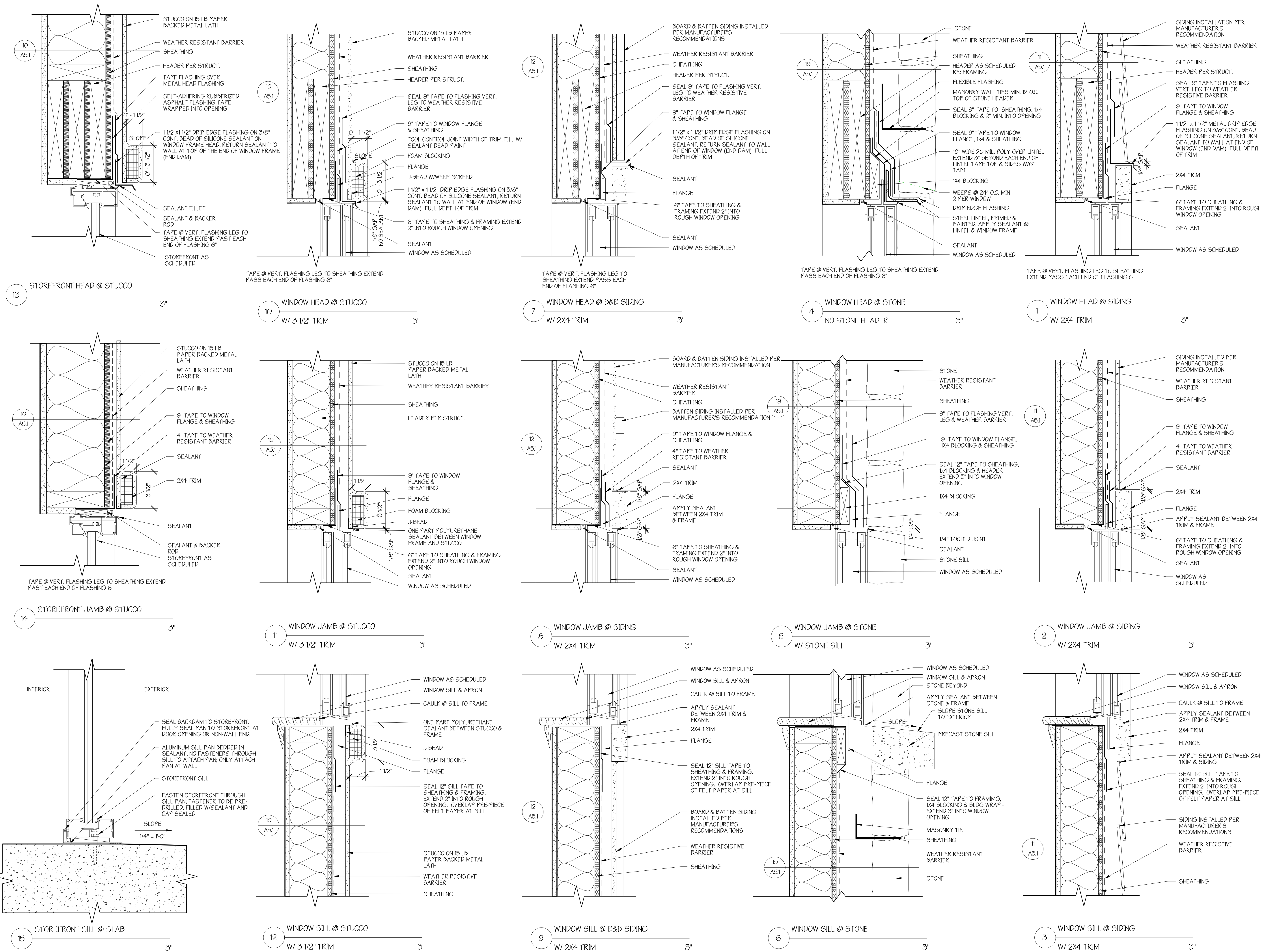
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CHECKED BY: JMK
PROJECT #: 18-2325



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MOONLIGHT GARDEN
8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

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DESCRIPTION		
MATERIAL TRANSITION DETAILS		
SHEET		
A5.9A		



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MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

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9383
05/23/19
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MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX
78747

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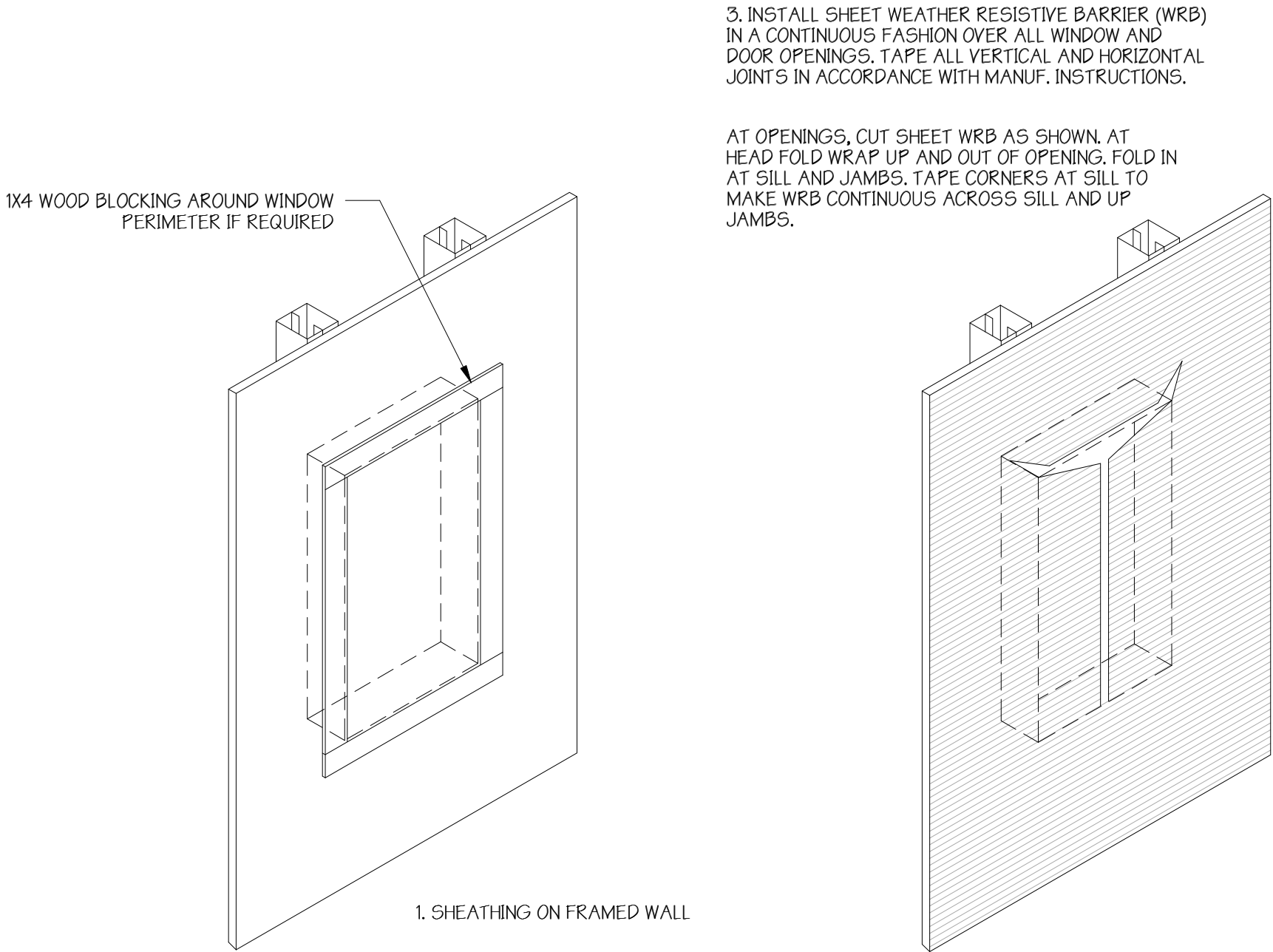
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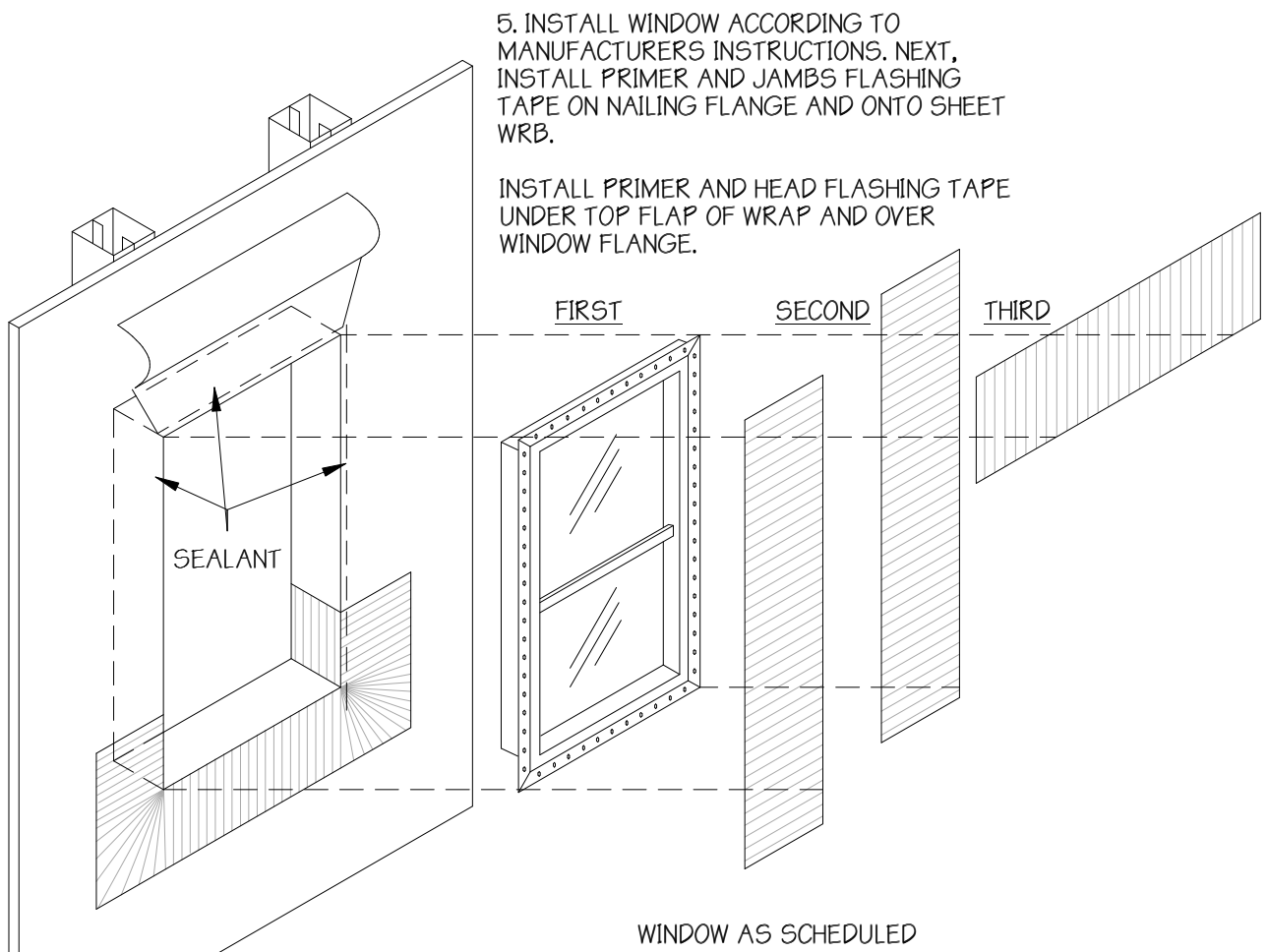
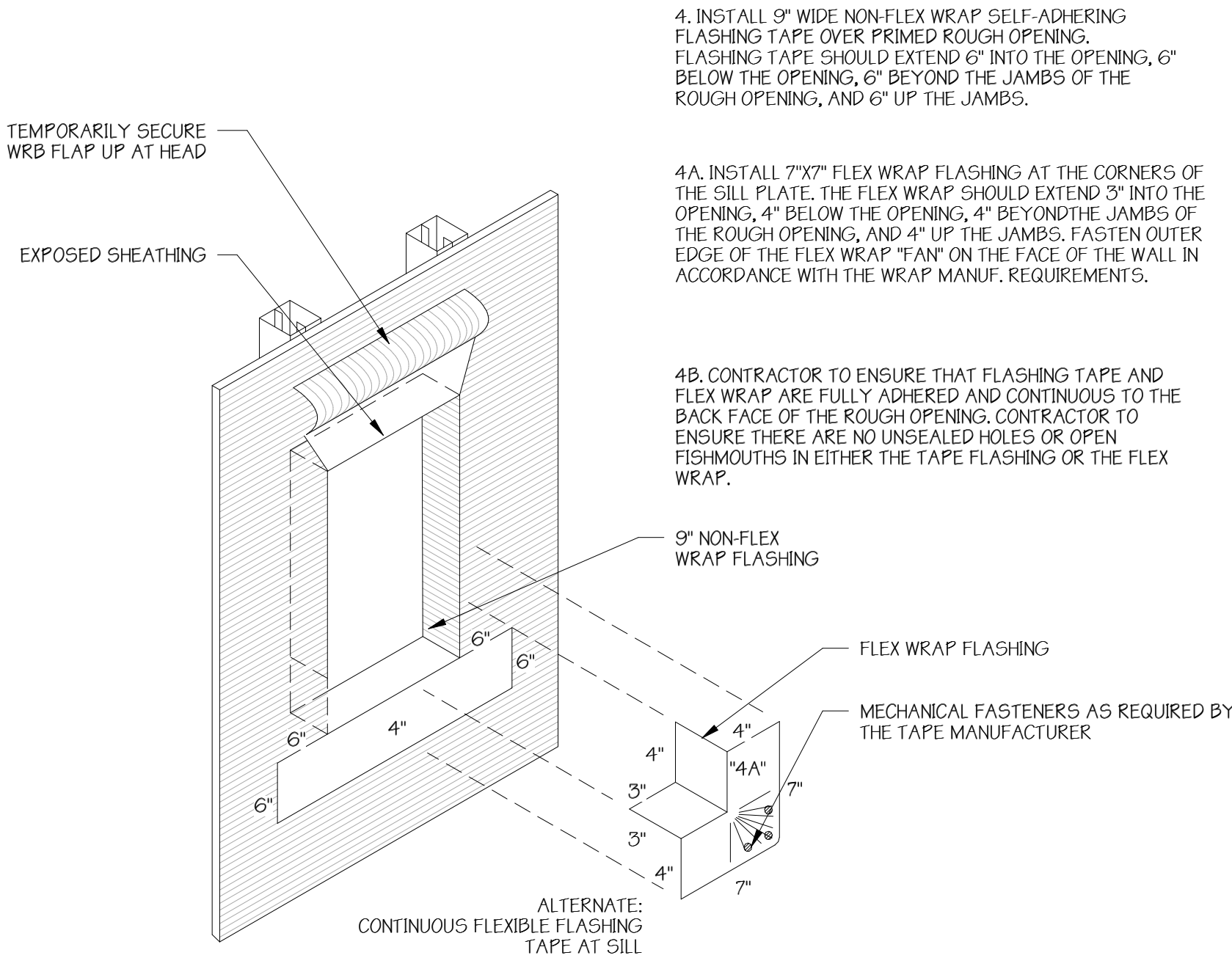
DATE
07-31-2018

DESCRIPTION
WINDOW DETAILS

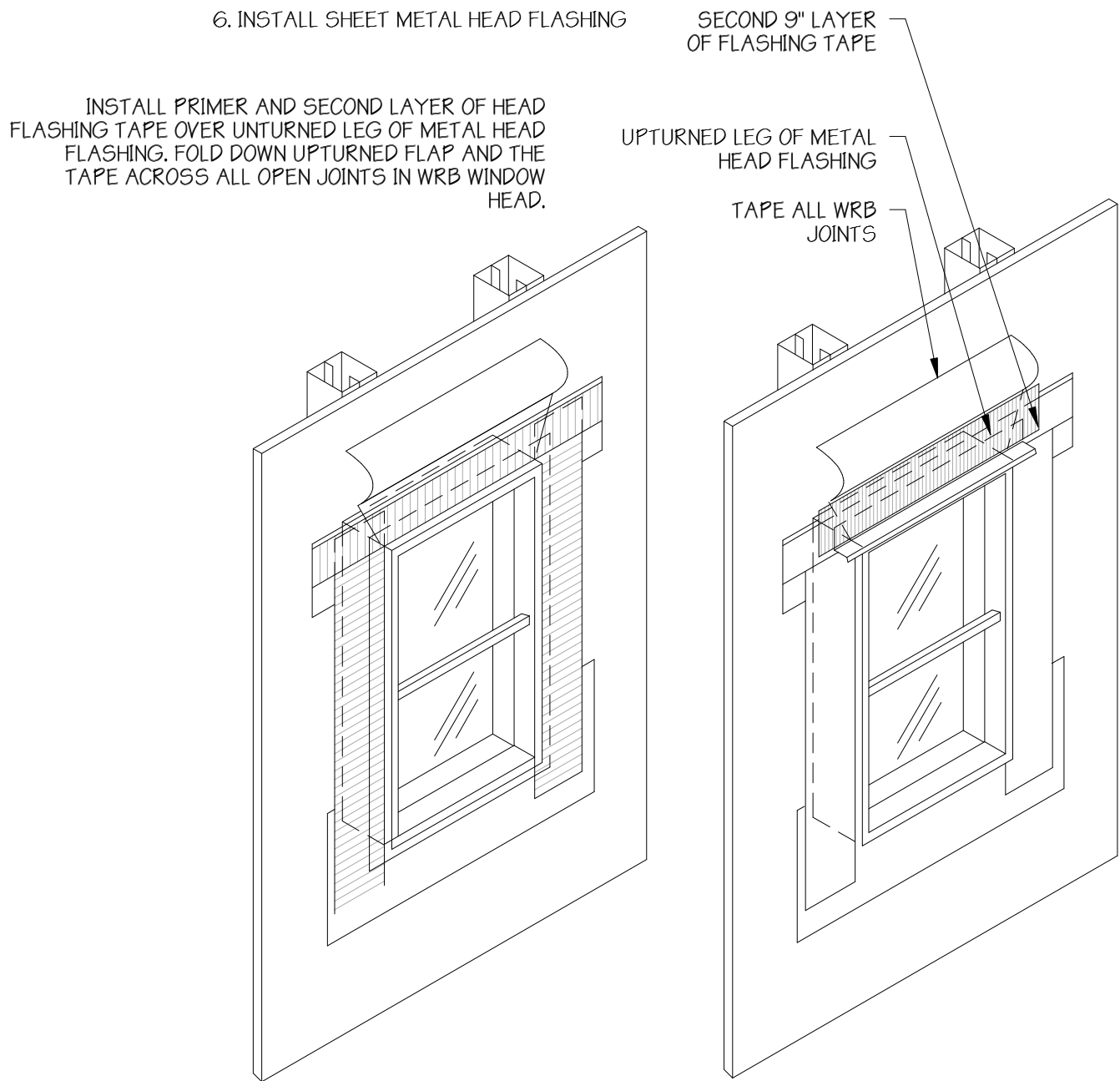
SHEET
A5.10



1 R.O. PREPARATION NTS



2 R.O. PREPARATION NTS



3 R.O. PREPARATION NTS

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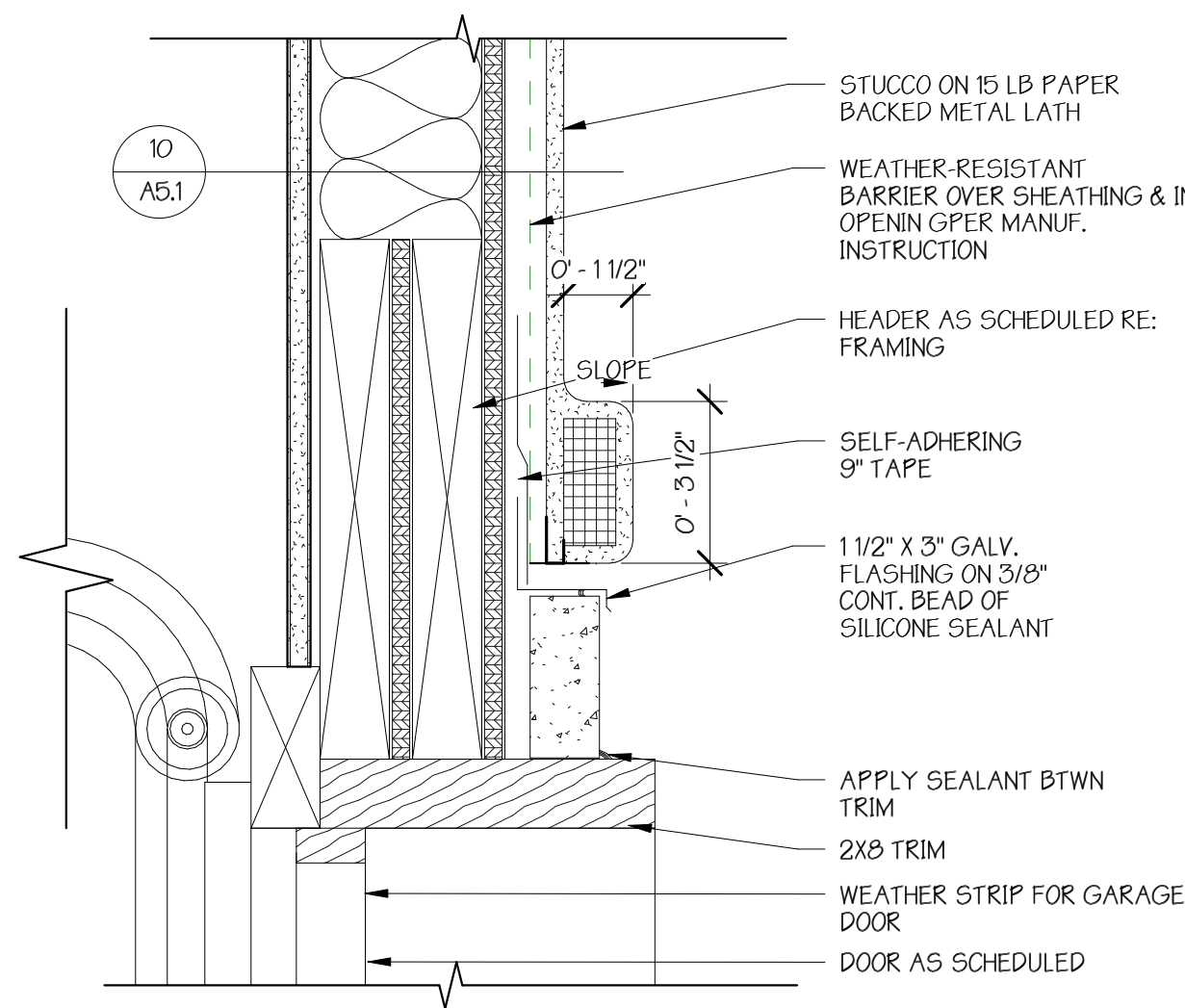
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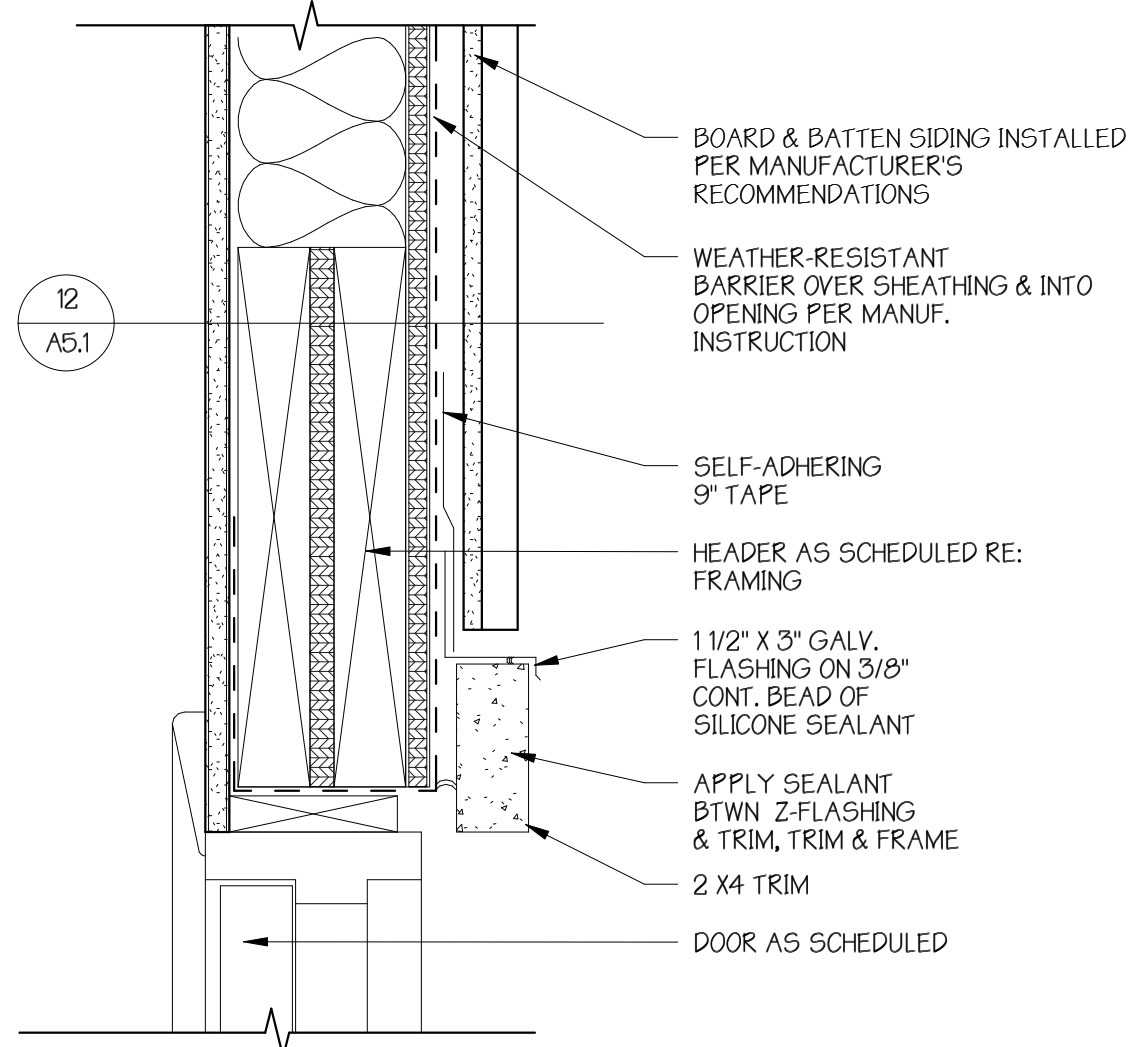
MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX
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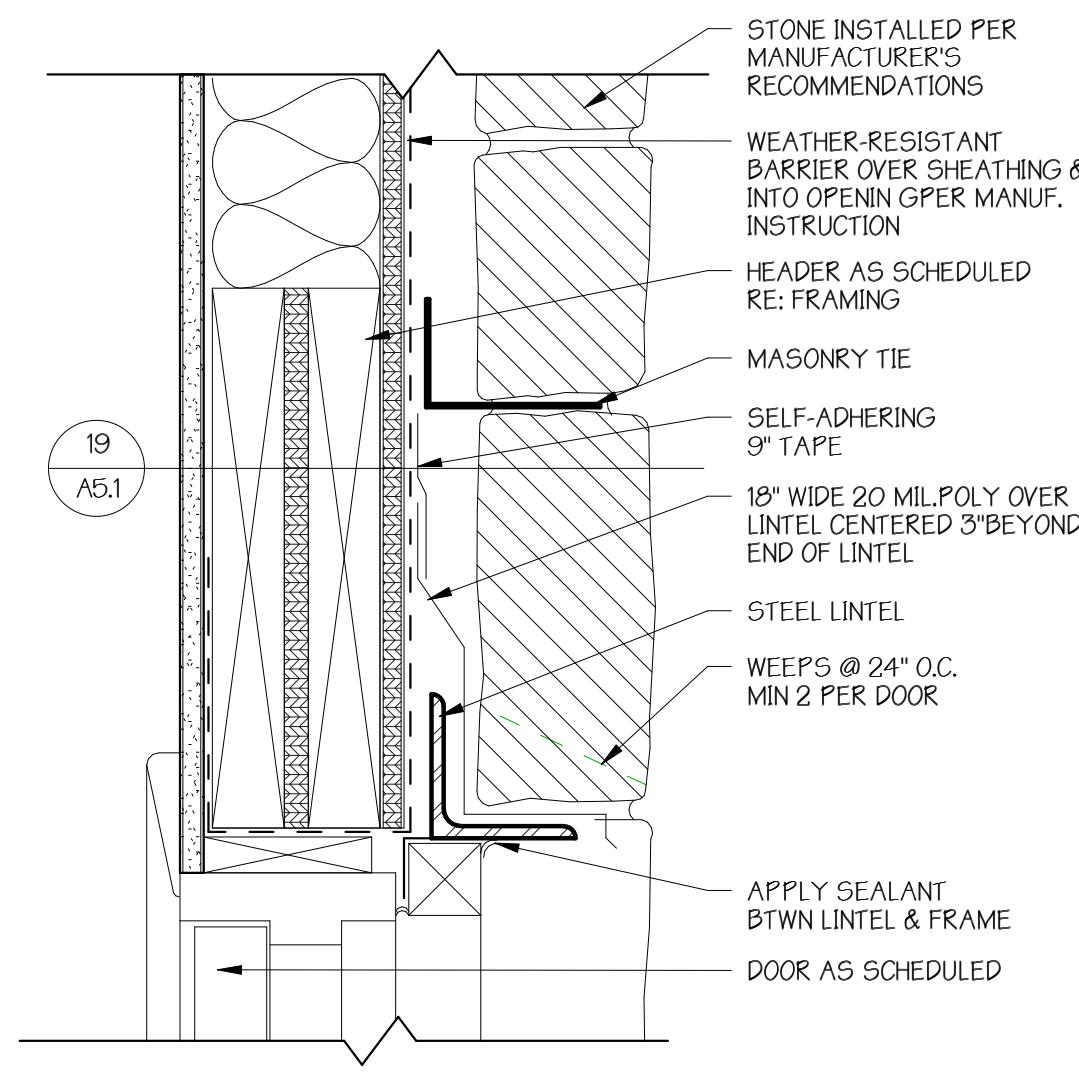
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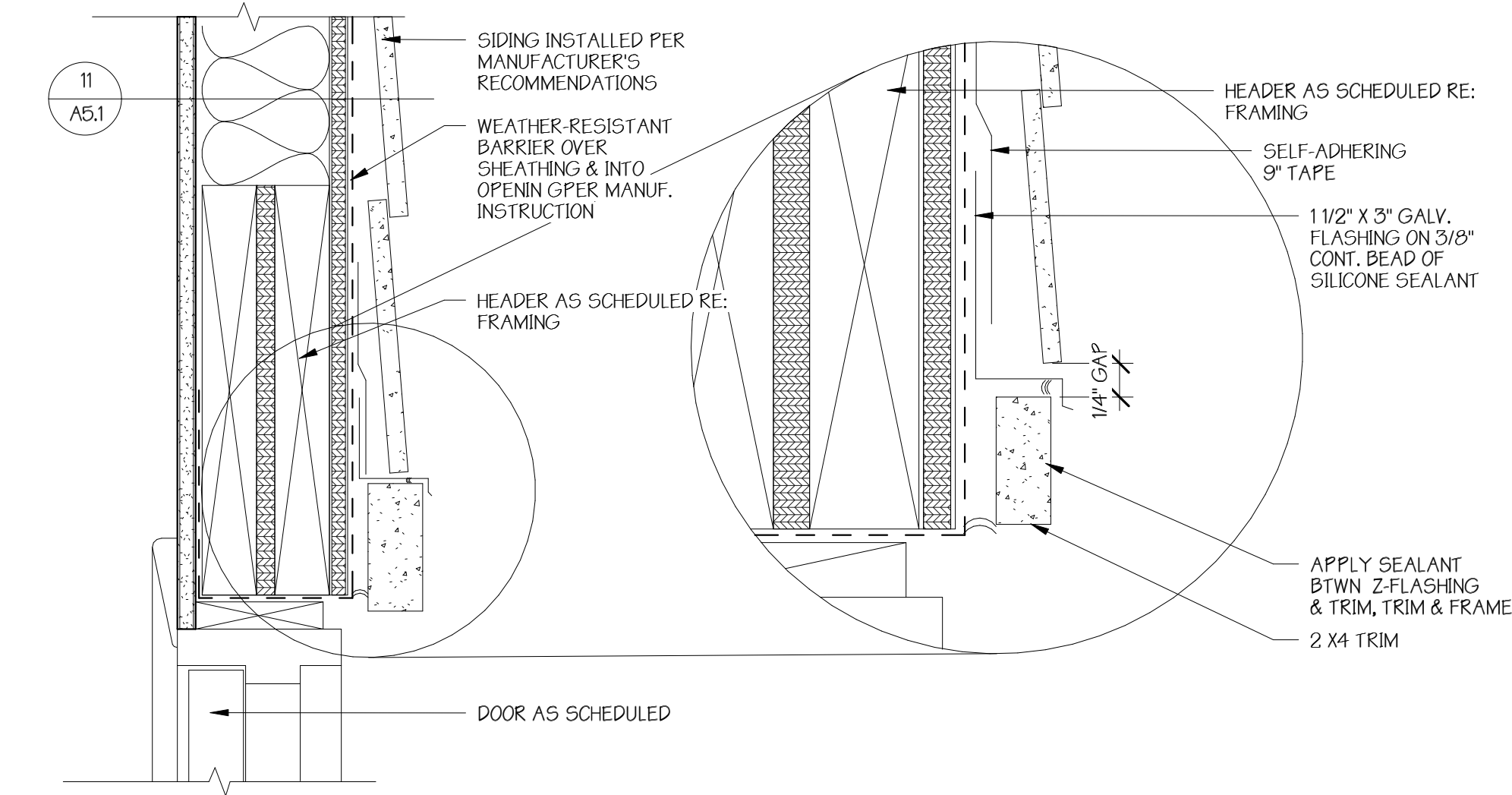
10 GARAGE DOOR HEAD @ B&B SIDING
3"



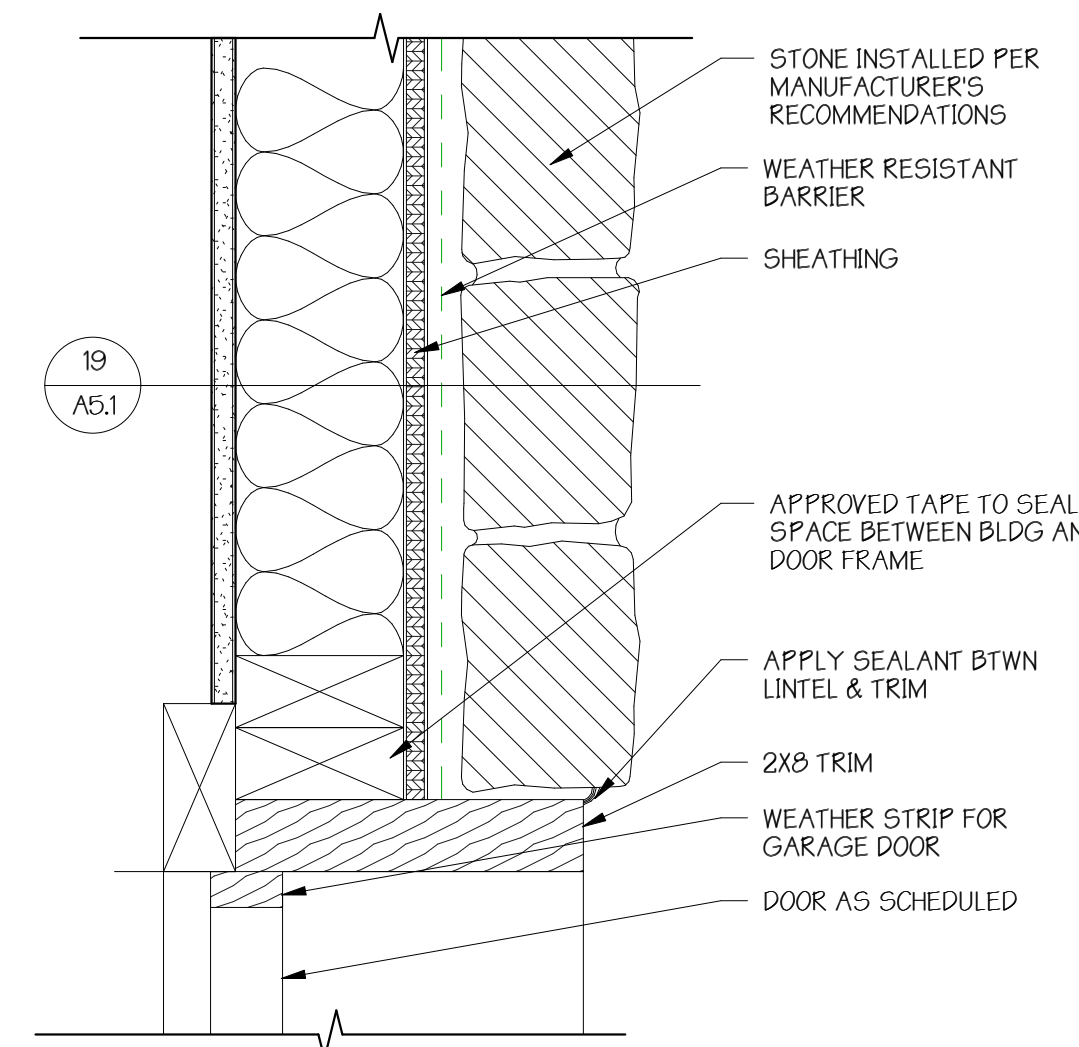
7 DOOR HEAD @ B&B SIDING
3"



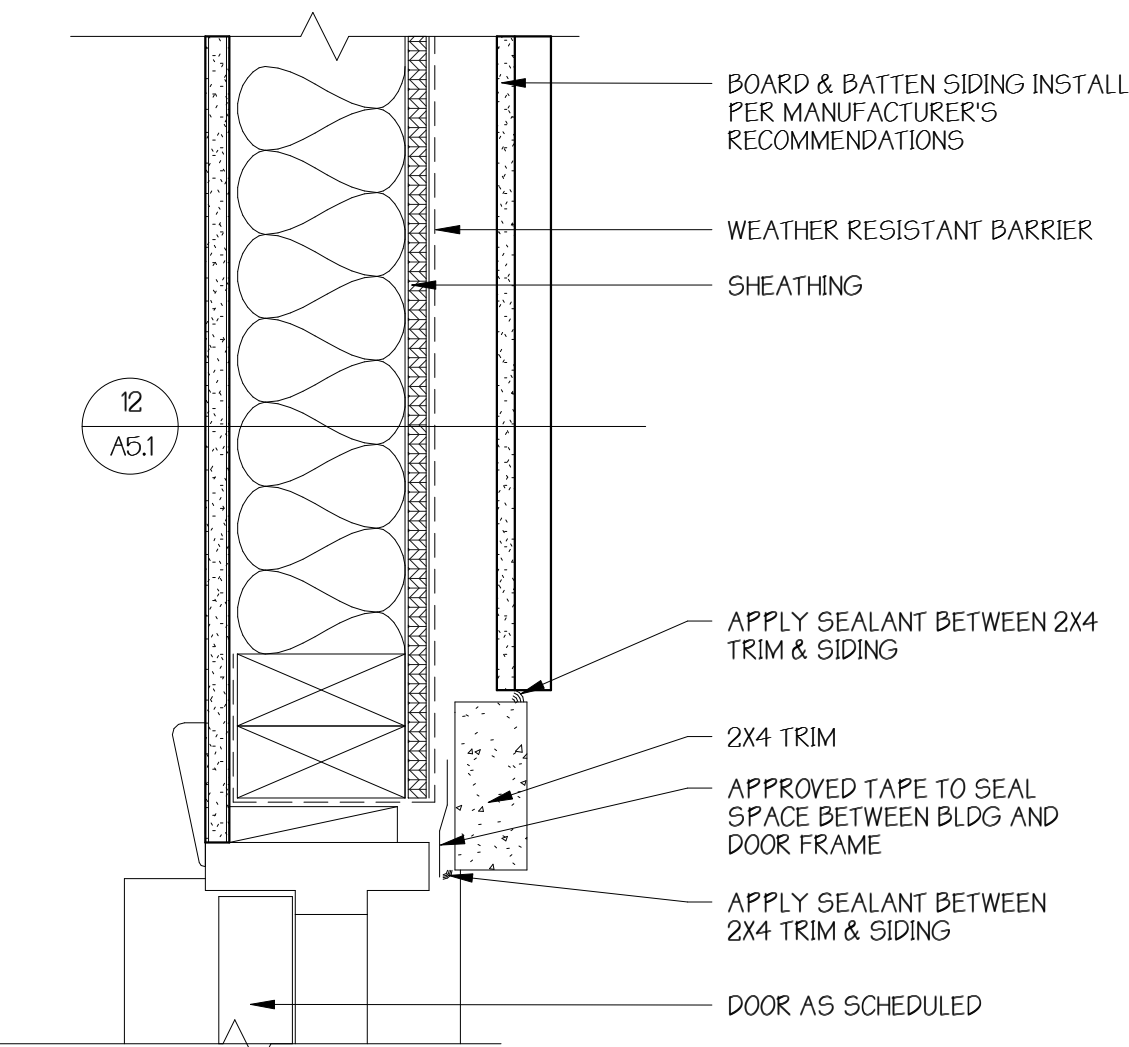
4 DOOR HEAD @ STONE
3"



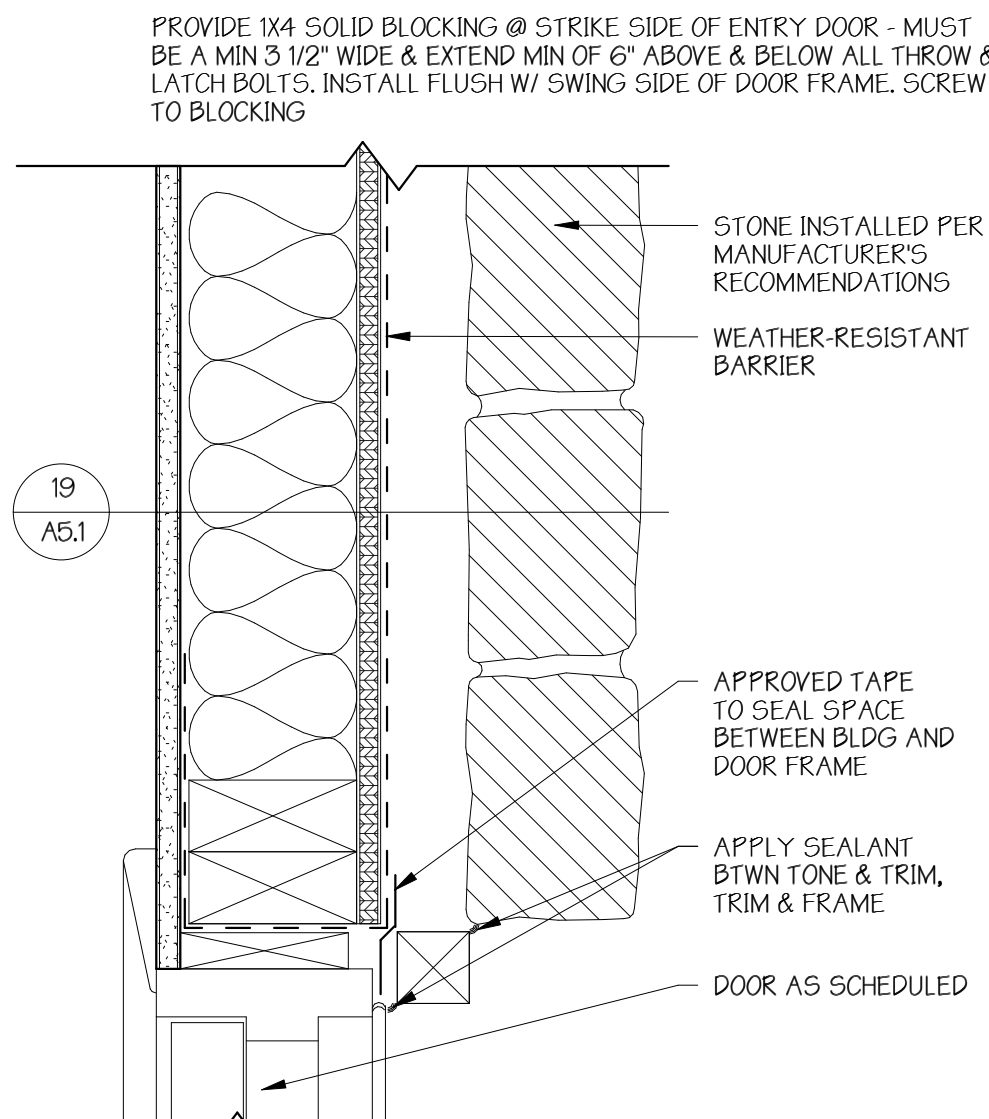
1 DOOR HEAD @ SIDING
3"



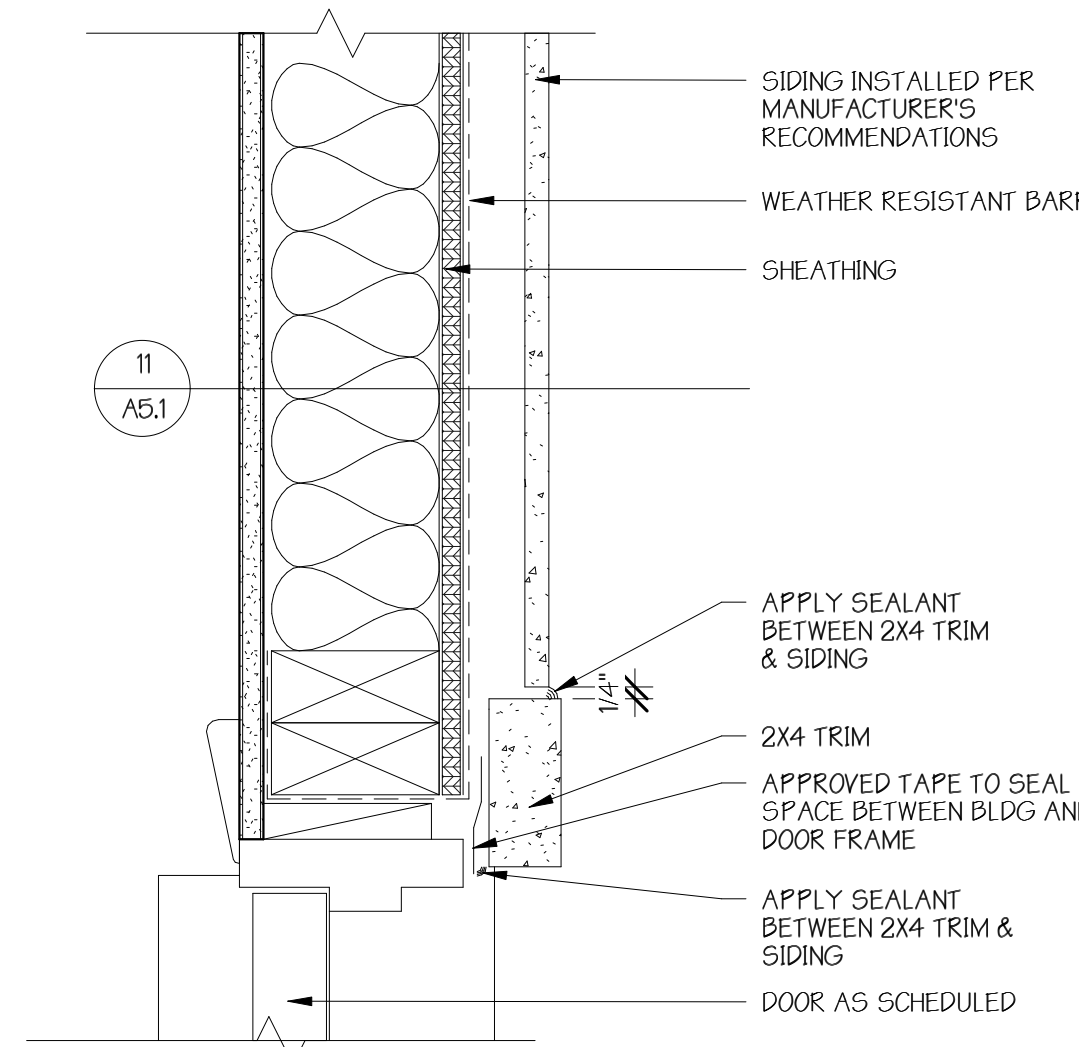
11 GARAGE DOOR JAMB @ STONE
3"



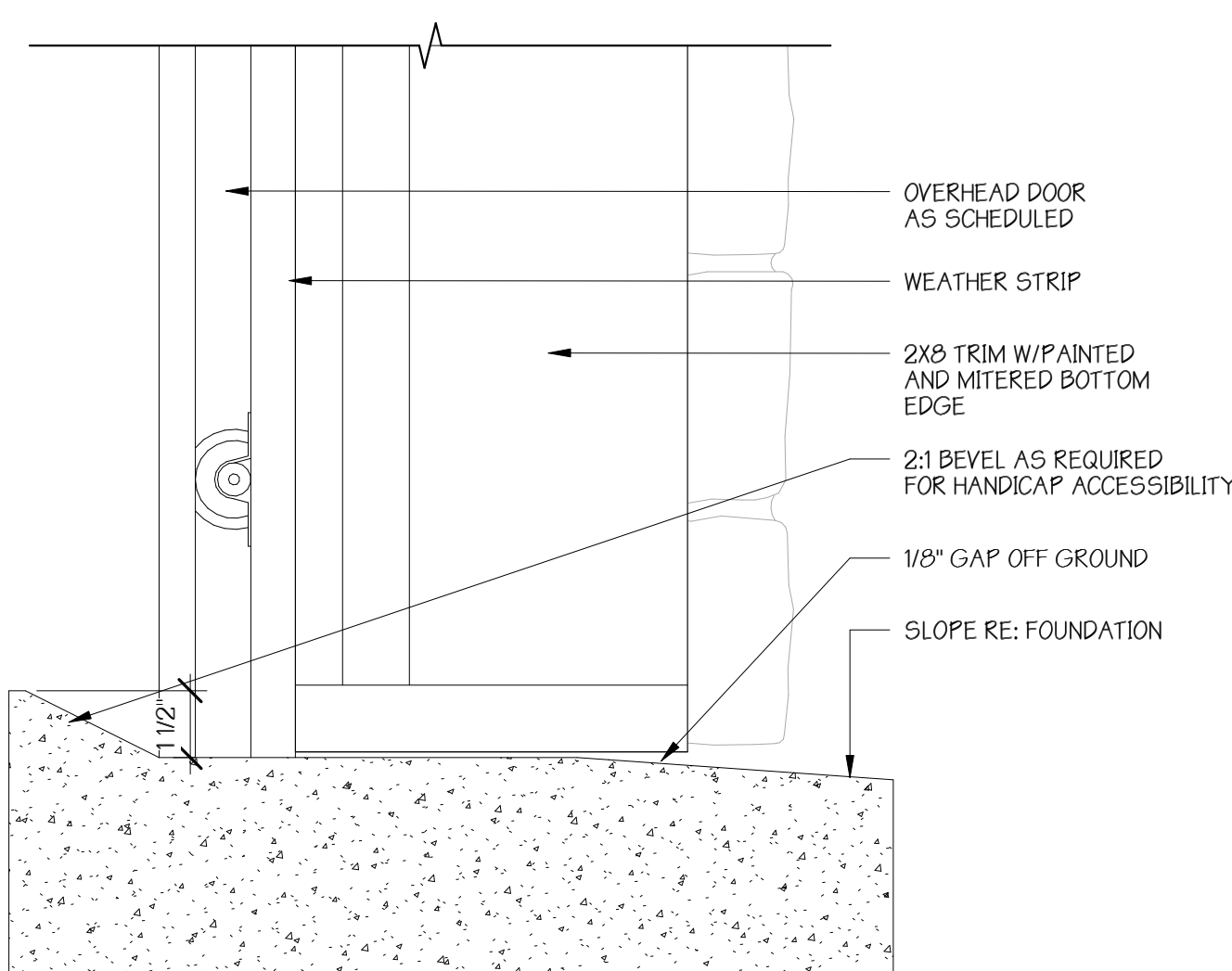
8 DOOR JAMB @ B&B SIDING
3"



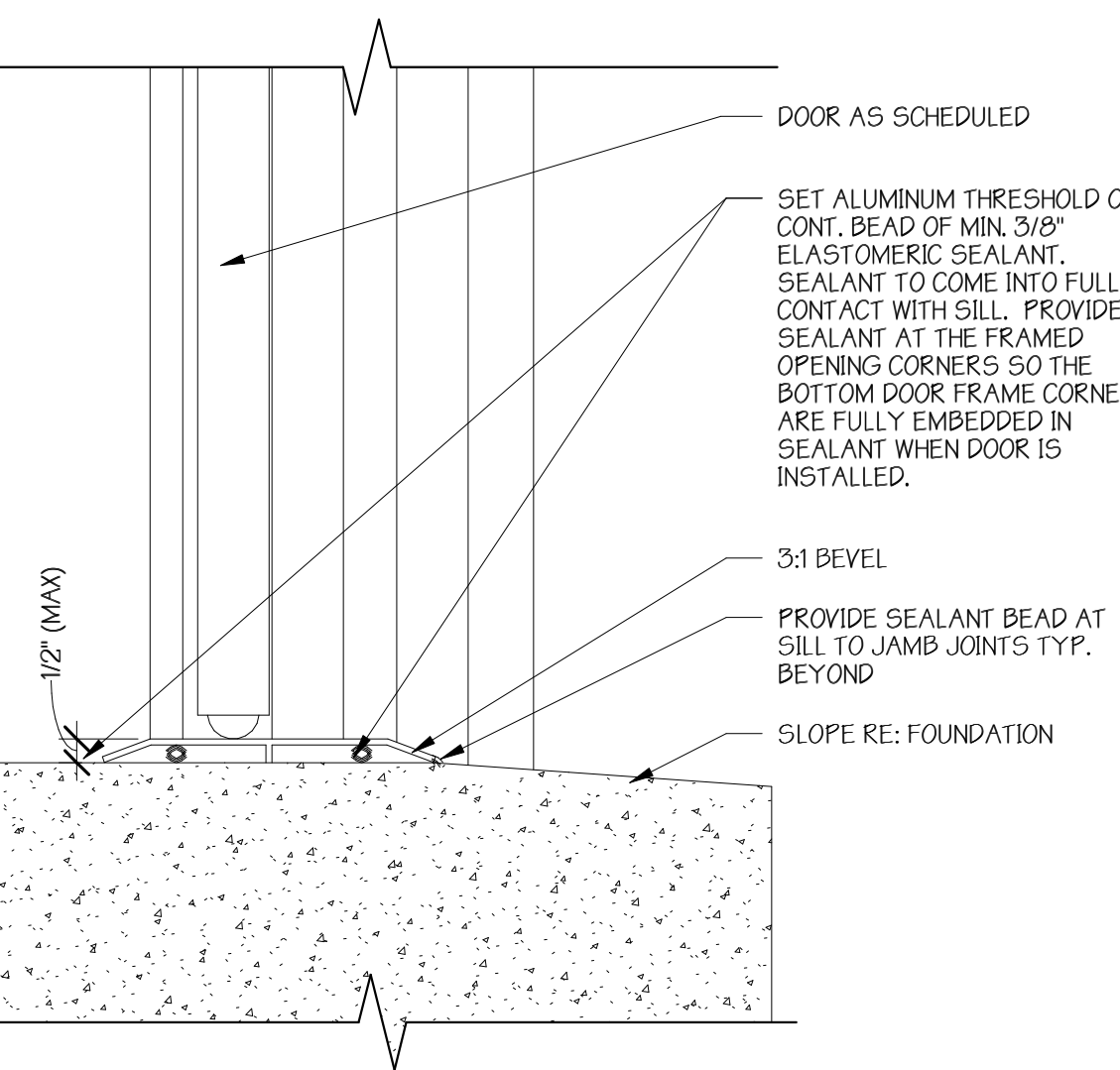
5 DOOR JAMB @ STONE
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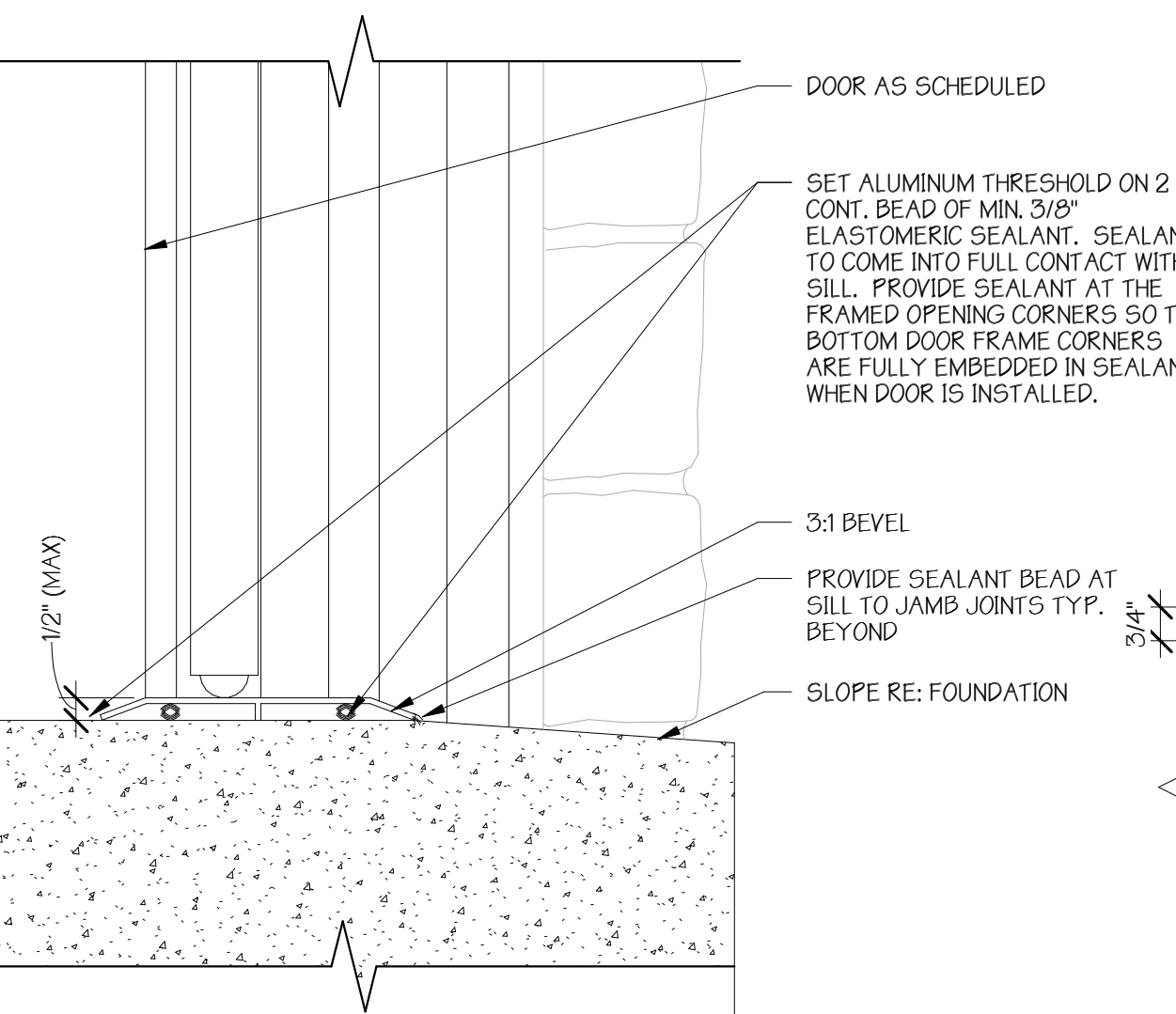
2 DOOR JAMB @ SIDING
3"



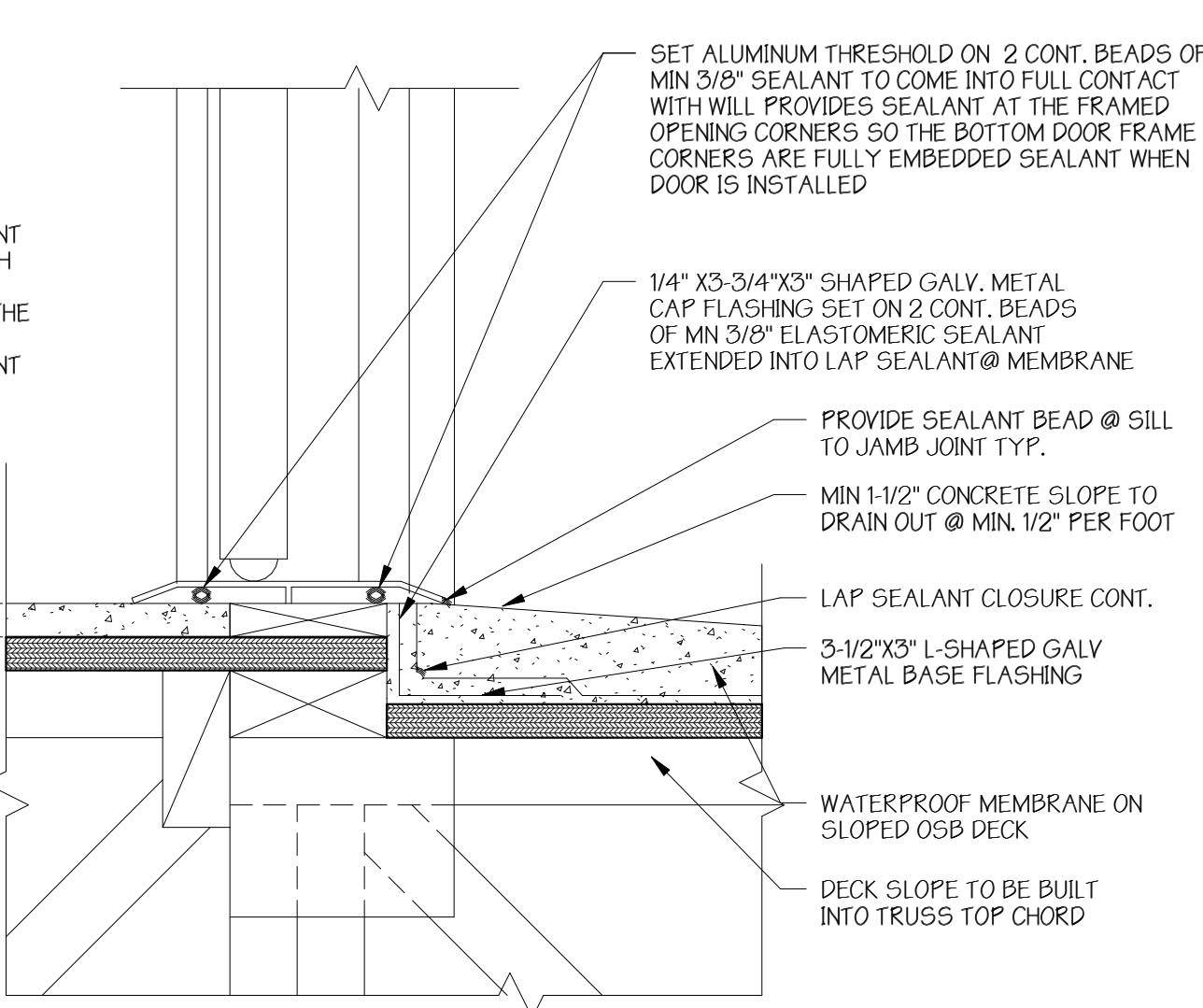
12 GARAGE DOOR SILL @ STONE
3"



9 DOOR SILL @ SIDING
3"



6 DOOR SILL @ STONE
3"

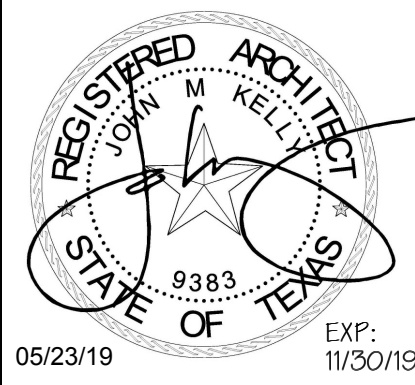


3 DOOR SILL
3"

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MAR

CHECKED BY:
JMK

PROJECT #:
18-2325



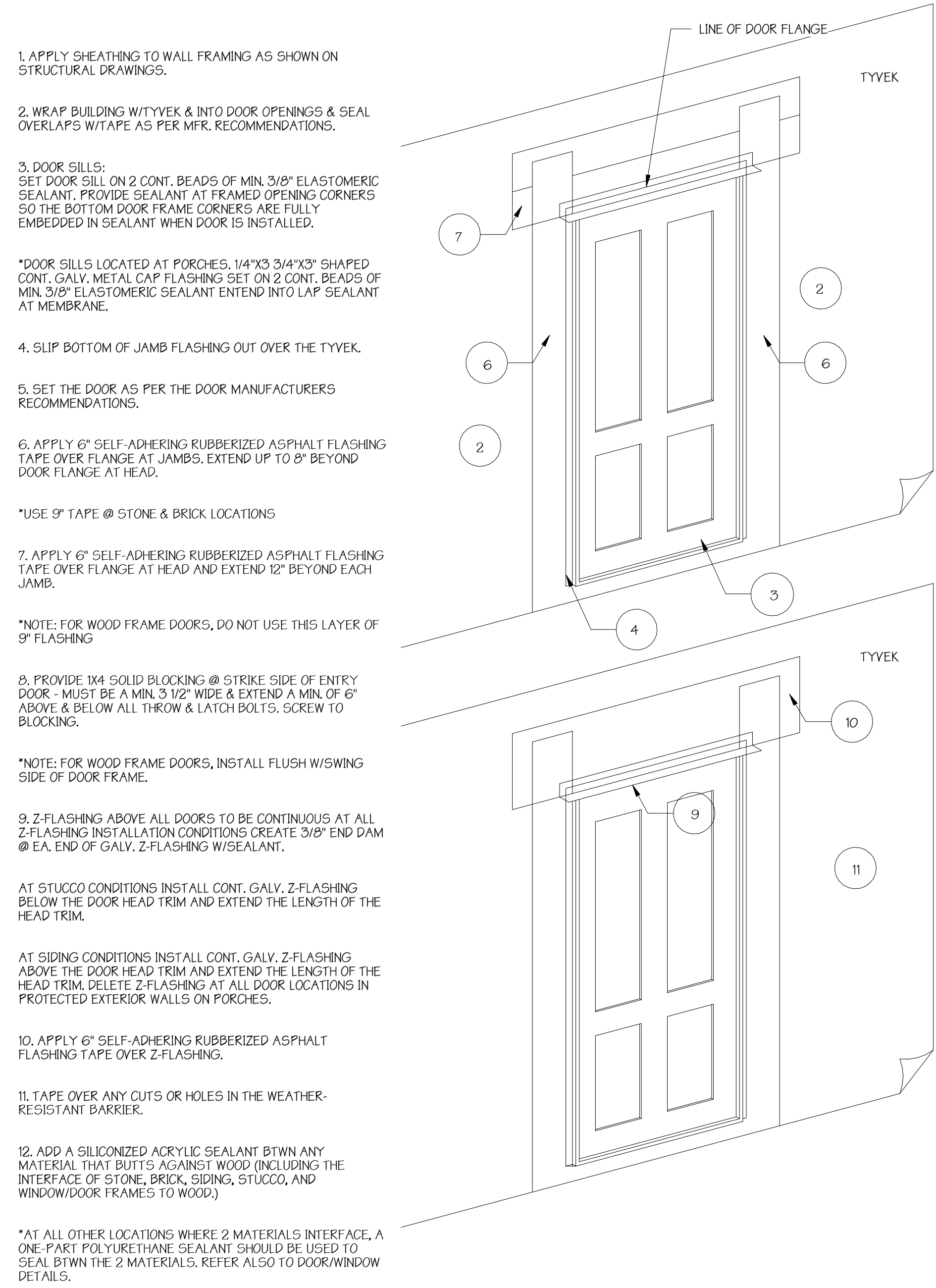
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MOONLIGHT GARDEN
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DWG NAME		
DATE 07-31-2019		
DESCRIPTION DOOR DETAILS		
SHEET A5.11		



11 WATER PROOFING DETAIL

NTS

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MAR

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JMK

PROJECT #:
18-2325

LDG DEVELOPEMENT

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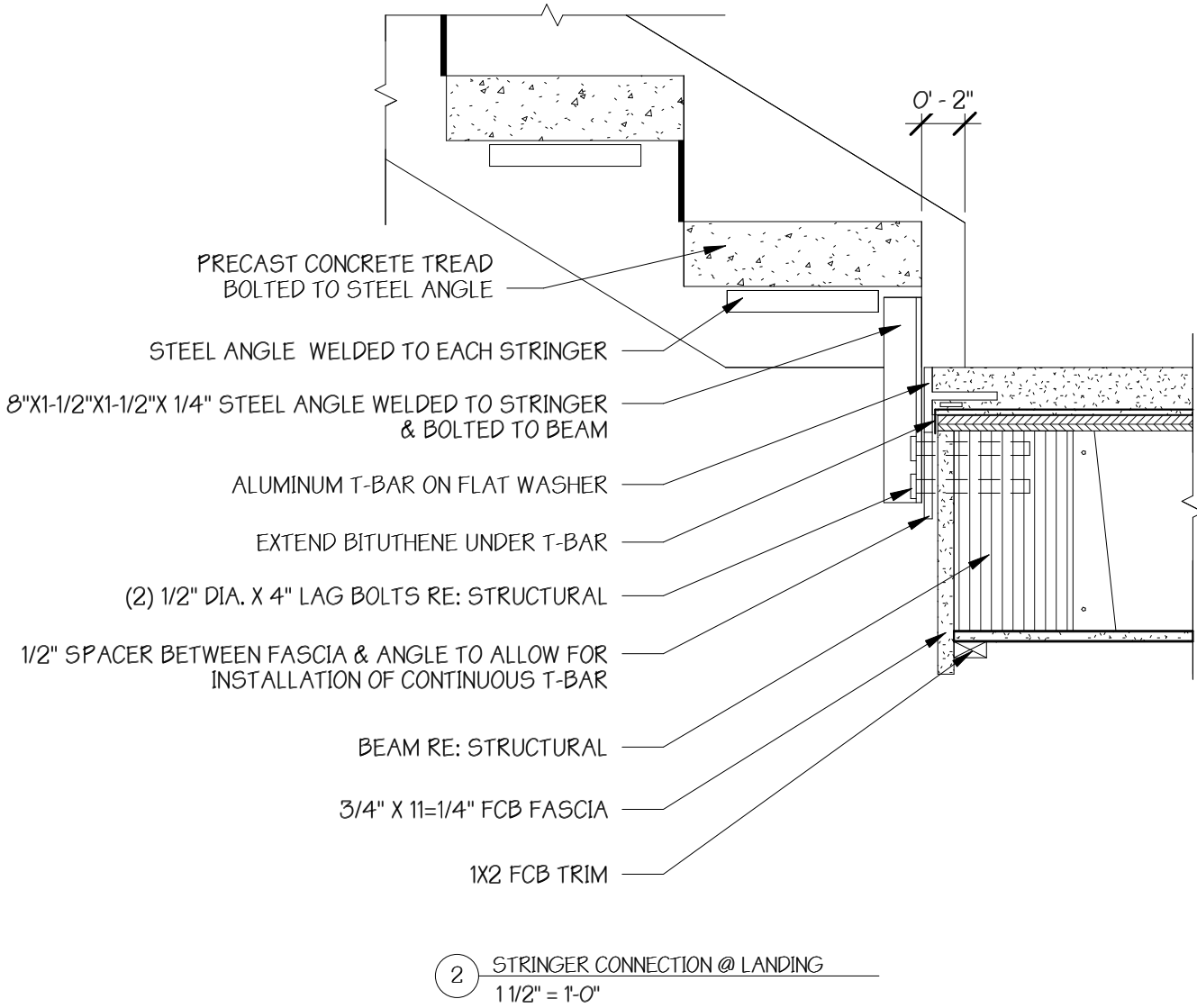
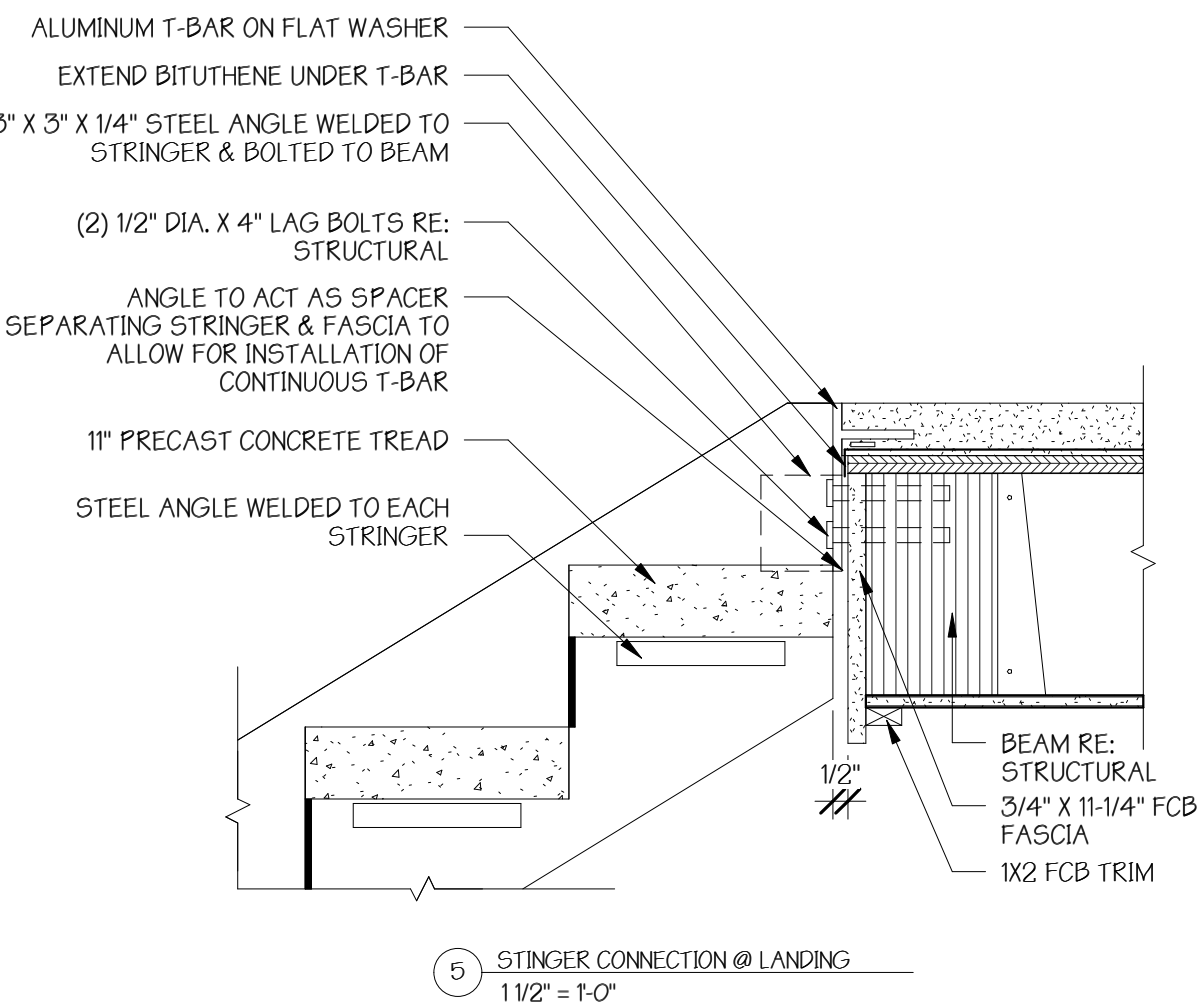
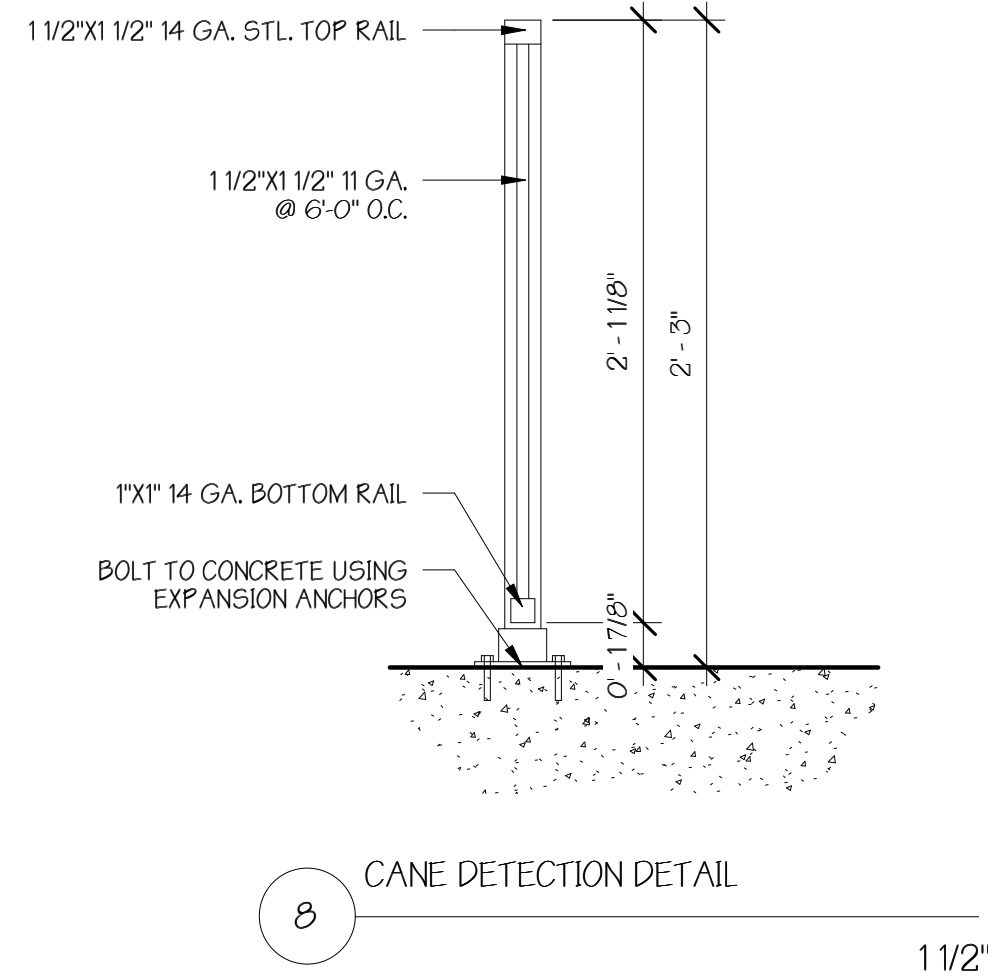
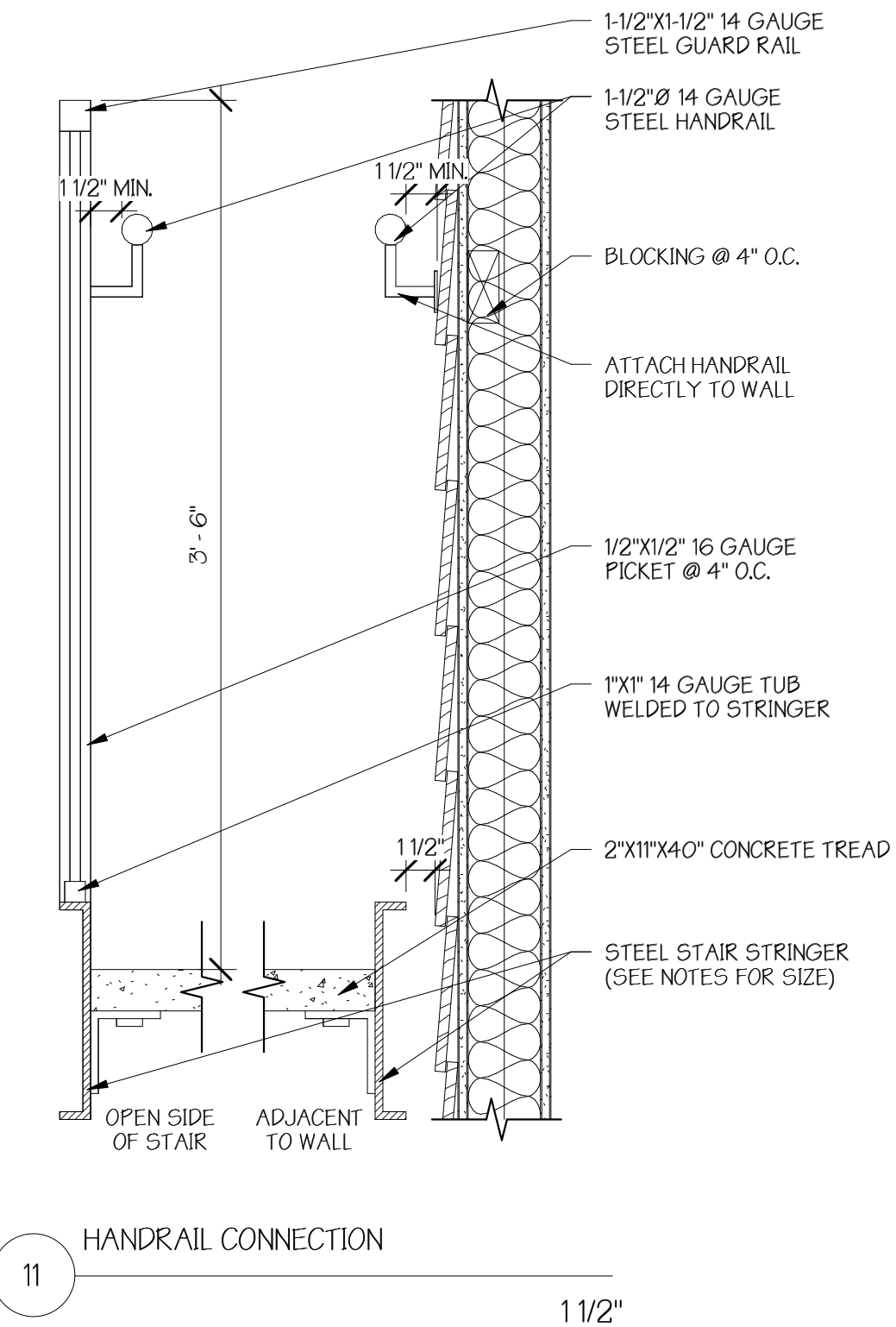
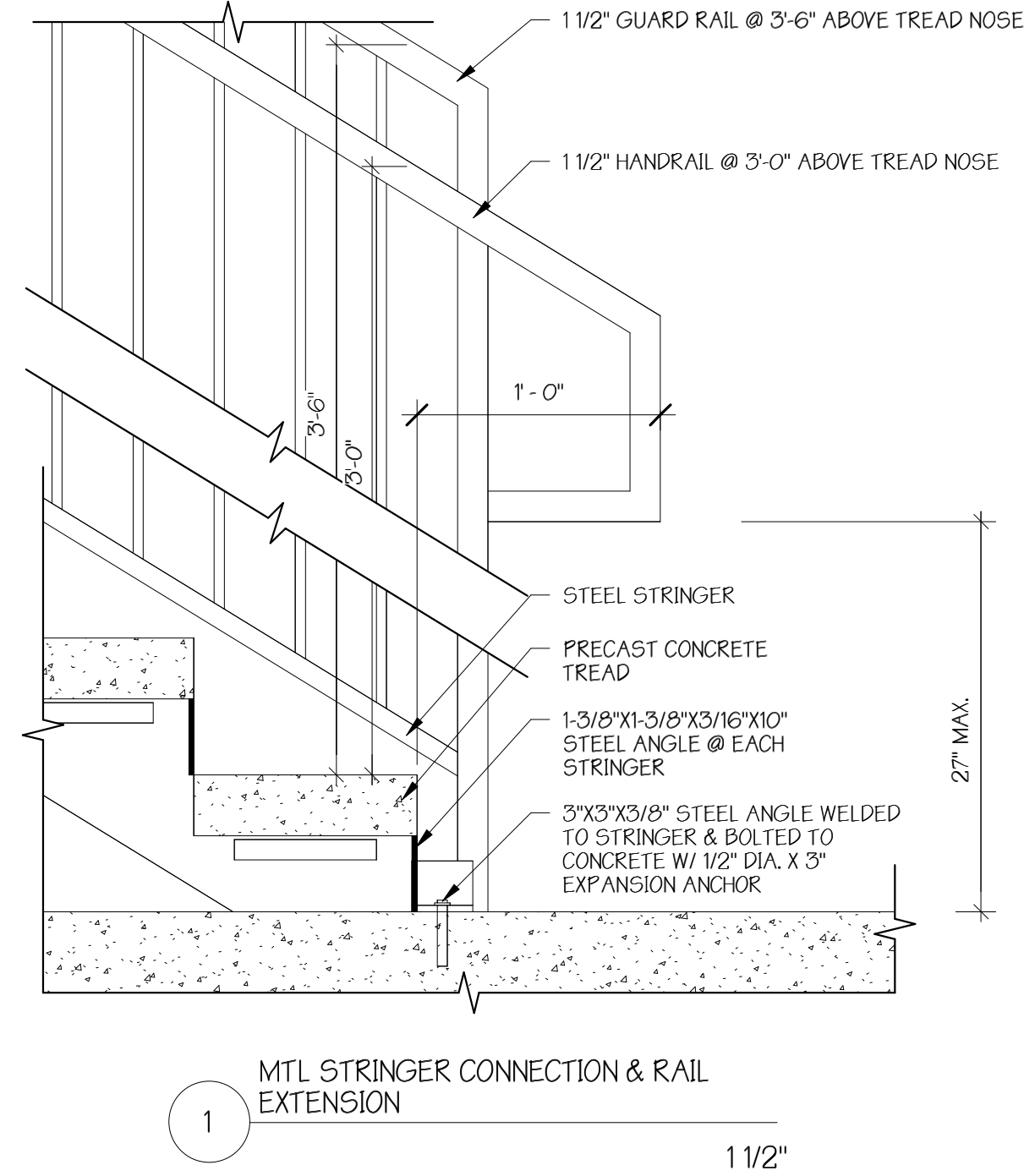
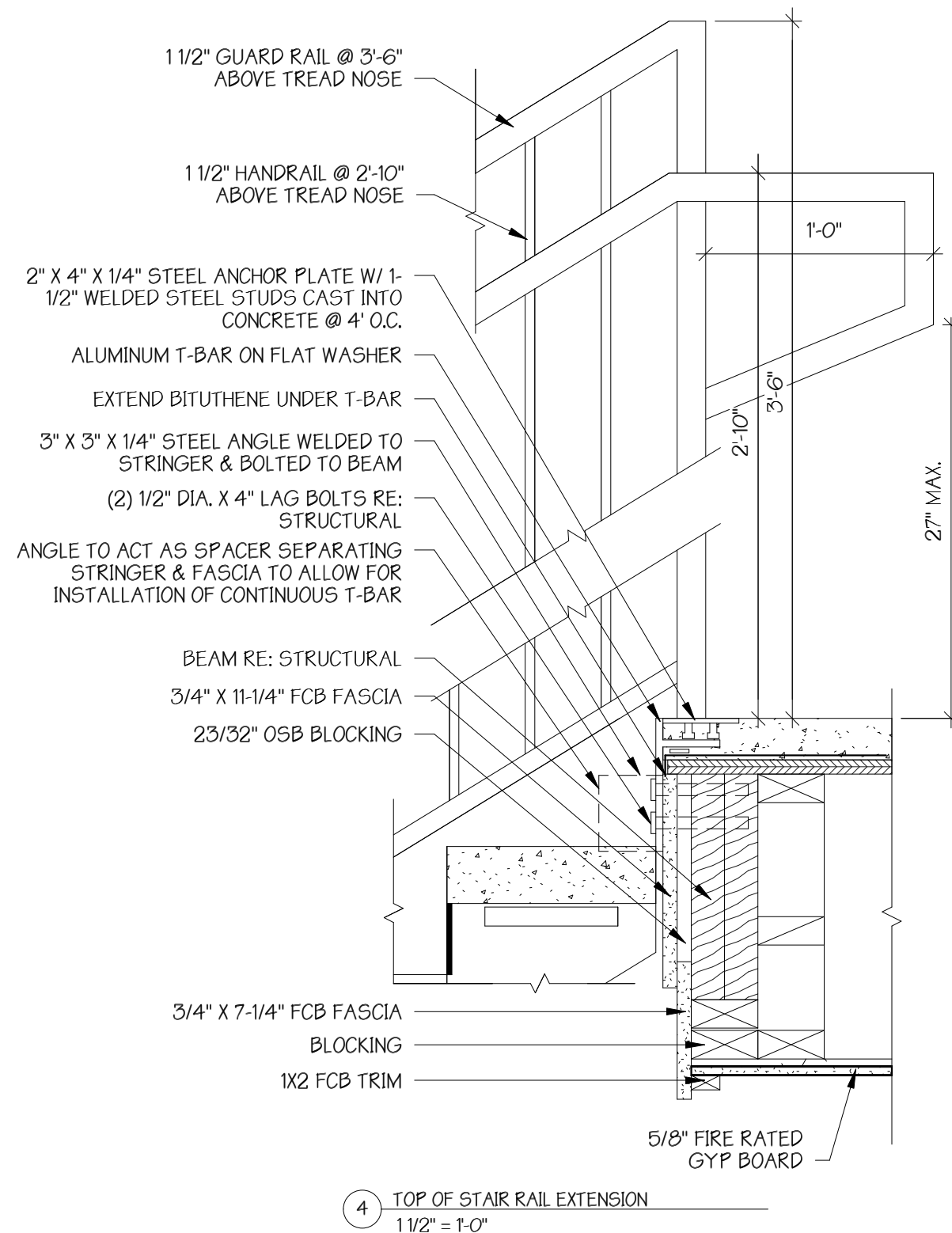
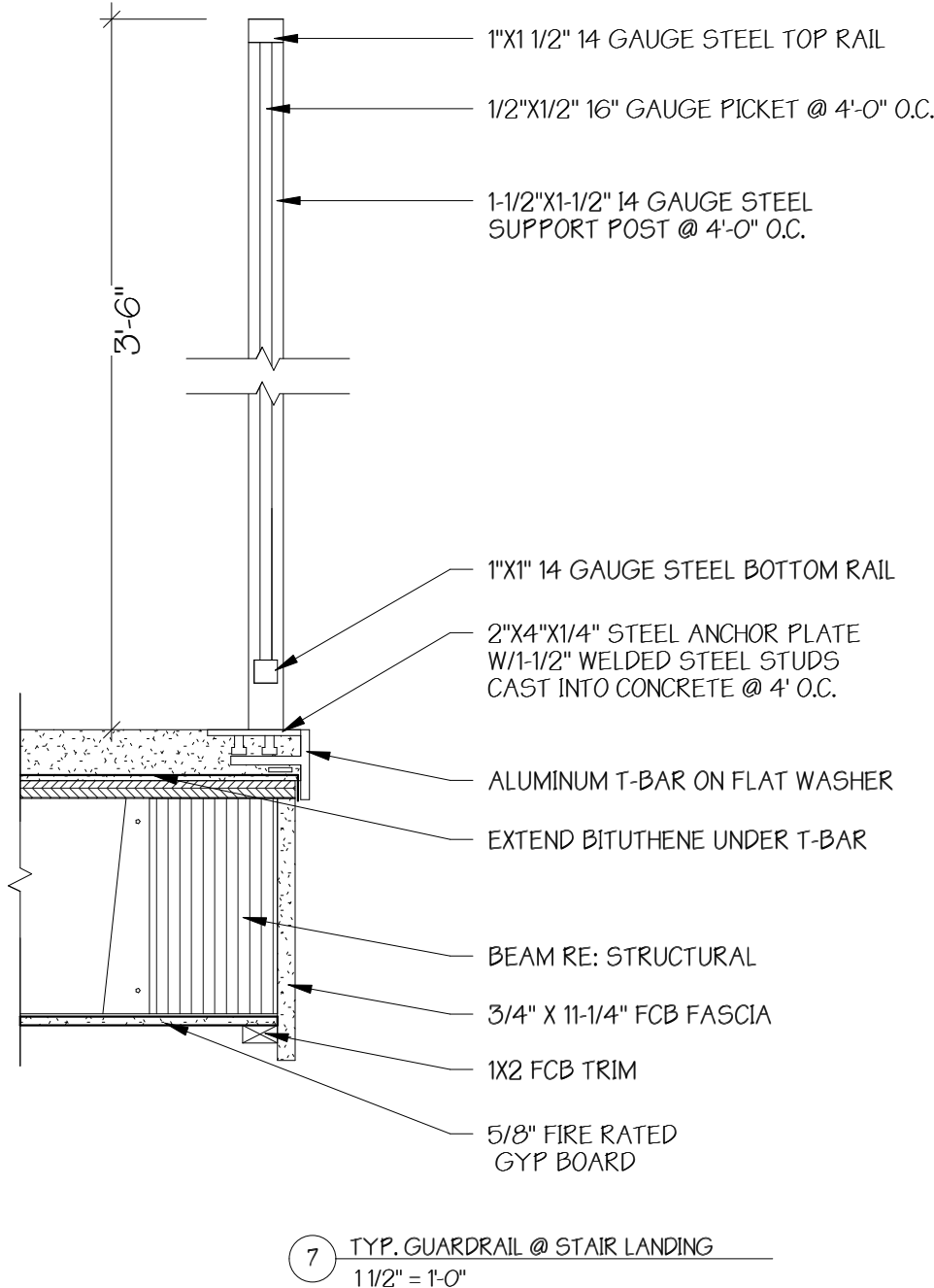
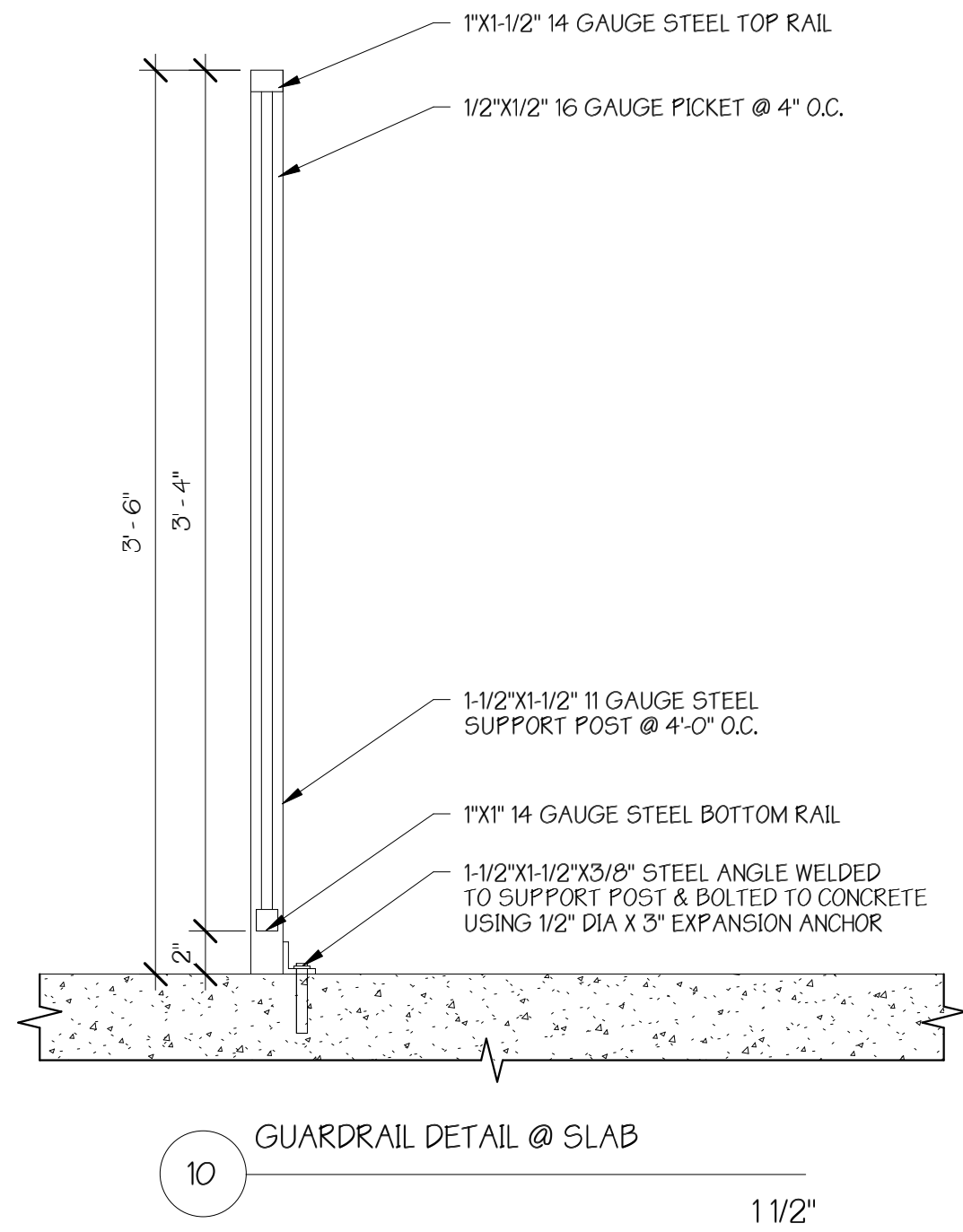
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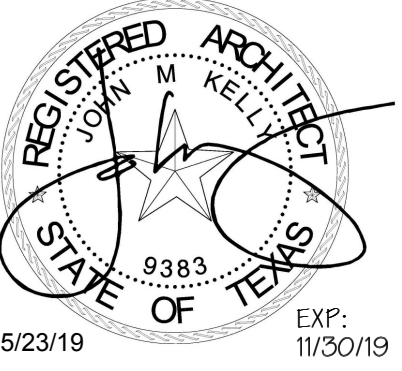
MOONLIGHT GARDEN

8901 NUCKOLLS CROSSING RD, AUSTIN TX 78747

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DWG NAME		
DATE		
07-31-2019		
DESCRIPTION		
DOOR DETAILS		
SHEET		
A5.11A		



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MAR
CHECKED BY:
JMK
PROJECT #:
18-2325

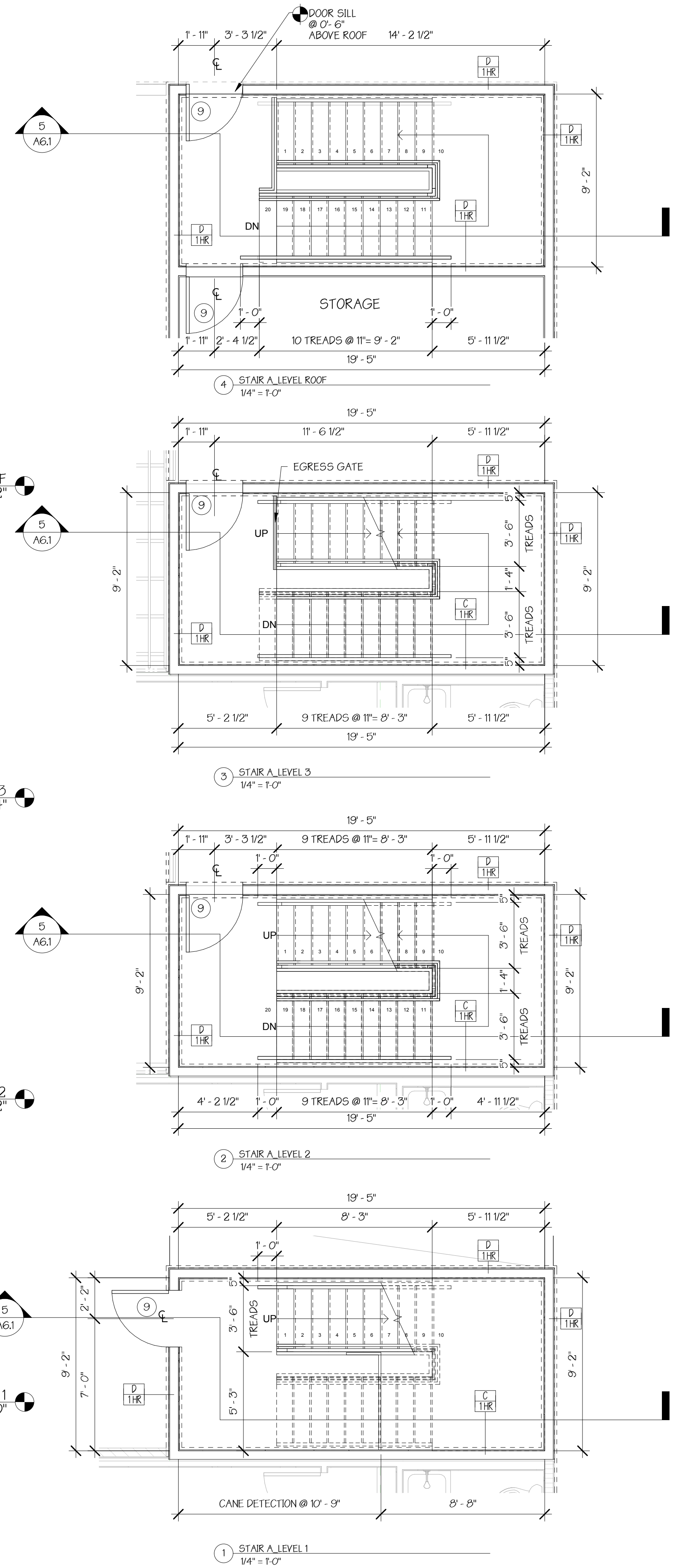
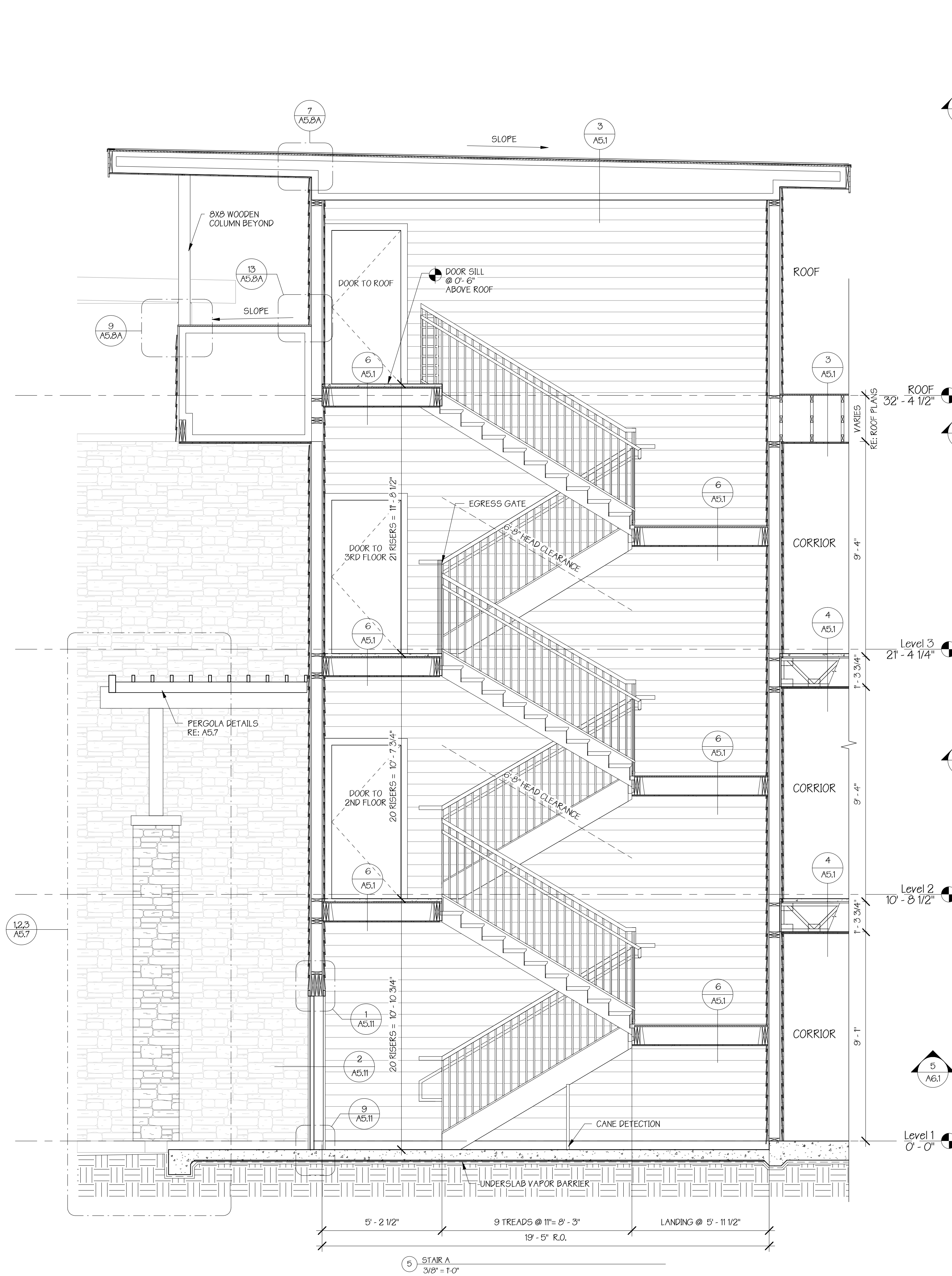


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DATE		
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DESCRIPTION		
STAIR DETAILS		
SHEET		
A6.0		



DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

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78747

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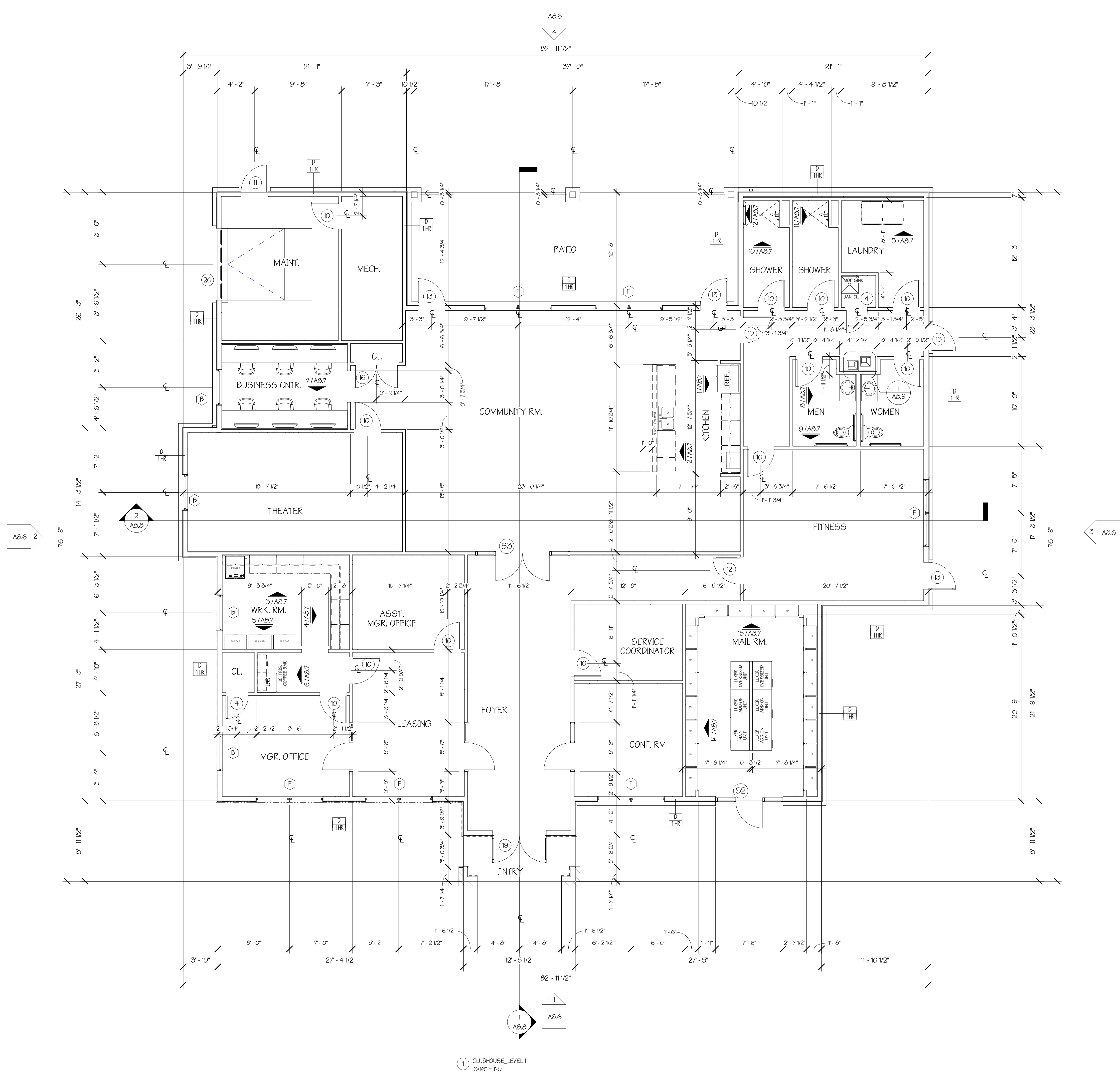
ISSUED FOR CONSTRUCTION

DWG NAME

DATE
04/25/19

DESCRIPTION
STAIR PLANS & SECTION

SHEET
A6.1



WALL TYPE LEGEND

- A 1HR TENANT SEP. WALL - GYP. ON 2 WOODS STUDS RE: 7/A5.1
- B TYP. INTERIOR PARTITION WALL - GYP. ON WOOD STUD RE: 8/A5.1
- C 1HR CORRIDOR WALL - GYP. ON STAGGERED WOOD STUDS RE: 9/A5.1
- D 1HR EXTERIOR WALL - GYP. ON WOOD STUD RE: 10,11,12, & 13/A5.1

WALL MATERIAL LEGEND

- STONE
- SIDING
- STUCCO
- BOARD & BATTEN
- CORRIDOR/STAGGERED STUD
- DRAFTSTOP

PROVIDE PORTABLE FIRE EXTINGUISHERS (NOT LESS THAN 2-A:10-B:C) WITHIN 75 FEET OF TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING

- HCM UNIT
- HCS UNIT

DRAWN BY: DPF, MAR

CHECKED BY: JMK

PROJECT #: 18-2325

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ARCHITECTS, PLLC

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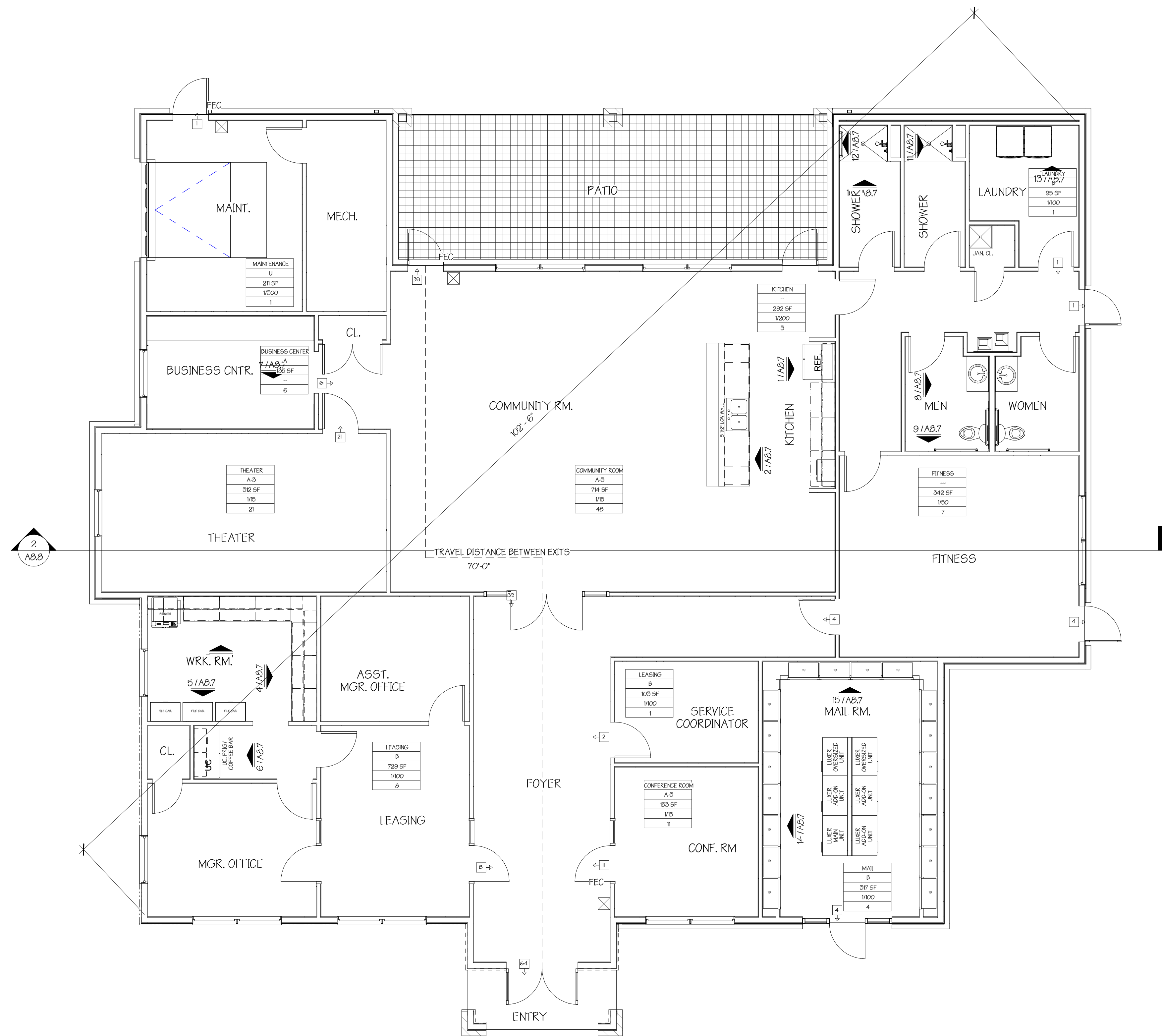
DWG NAME

DATE 01/10/19

DESCRIPTION CLUBHOUSE FLOOR PLAN

SHEET

A8.1



1 CLUBHOUSE LIFE SAFETY
3/16" = 1'-0"

PROVIDE PORTABLE FIRE EXTINGUISHERS WITHIN 75 FT. OF TRAVEL DISTANCE FROM ANY POINT IN THE BUILDING

PROVIDE STAIRWAY IDENTIFICATION AT EACH FLOOR LEVEL IN ALL ENCLOSED STAIRWAYS

LIFE SAFETY LEGEND

X	UNIT NAME
X	SQ. FT.
X	USE GROUP
X	OCC. PER SQ. FT.
X	OCCUPANT LOAD
X	STAIR NAME
X	OCCUPANT LOAD
X	MULTIPLIER
X	REQ. WIDTH
X	ACTUAL WIDTH
X →	OCCUPANCY & EGRESS DIRECTION
⊗	FIRE EXTINGUISHER

EXIT SEPARATION REQUIREMENTS	
AREA SERVED	102' - 6"
1/2 DIAGONAL	51' - 3"
EXIT SEPARATION PROVIDED	70' - 0"

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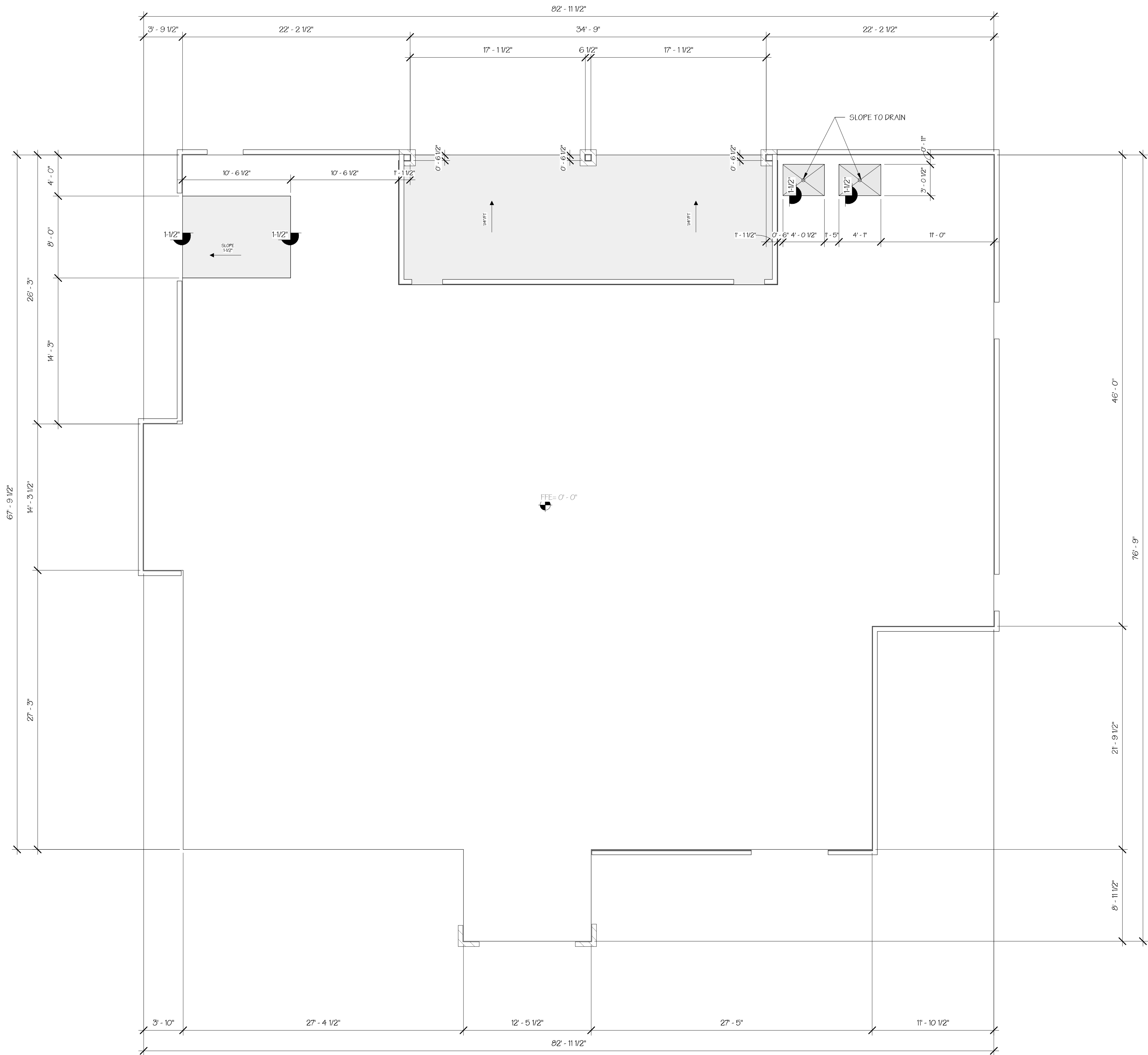
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MOONLIGHT GARDEN

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No.	Revision	Date
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ISSUED FOR CONSTRUCTION		
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DATE		
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DESCRIPTION		
CLUBHOUSE OCCUPANCY PLAN		
SHEET		
A8.2		

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1 CLUBHOUSE FORMING PLANS
3/16\"/>

FORMING PLAN LEGEND

- FINISHED FLOOR LEVEL
- FLAT SURFACE B.F.F.
- SLOPED SURFACE
- LEAVE OUT FOR TUB
- 5-1/2" STONE LEDGE
RE: 25/A5.1

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MAR

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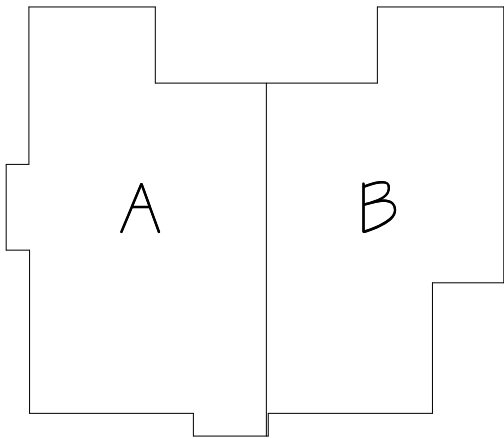
DWG NAME

DATE
01/10/19

DESCRIPTION
CLUBHOUSE FORMING
PLAN

SHEET
A8.3

ROOF DRAINAGE CALC. CLUBHOUSE						
BLDG AREA	AREA (SQ. FT.)	REQUIRED DRAINAGE OPENING SIZE	DRAINAGE OPENINGS PROVIDED		DOWNSPOUT DIMENSIONS	SCUPPER DIMENSIONS
			QTY. & SIZE			
A	2548	4 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"
B	2190	4 SQ. IN.	1	5 SQ. IN.	5" X 5"	7 1/2" X 8"



TRUSS DETAILS

OVERHANG
PLATE HT.
STUB HT.

STUB TRUSS DETAIL
NTS

OVERHANG
PLATE HT.

TYP. TRUSS DETAIL
NTS

SOFFIT LEGEND

DRAFTSTOP

SOFFIT

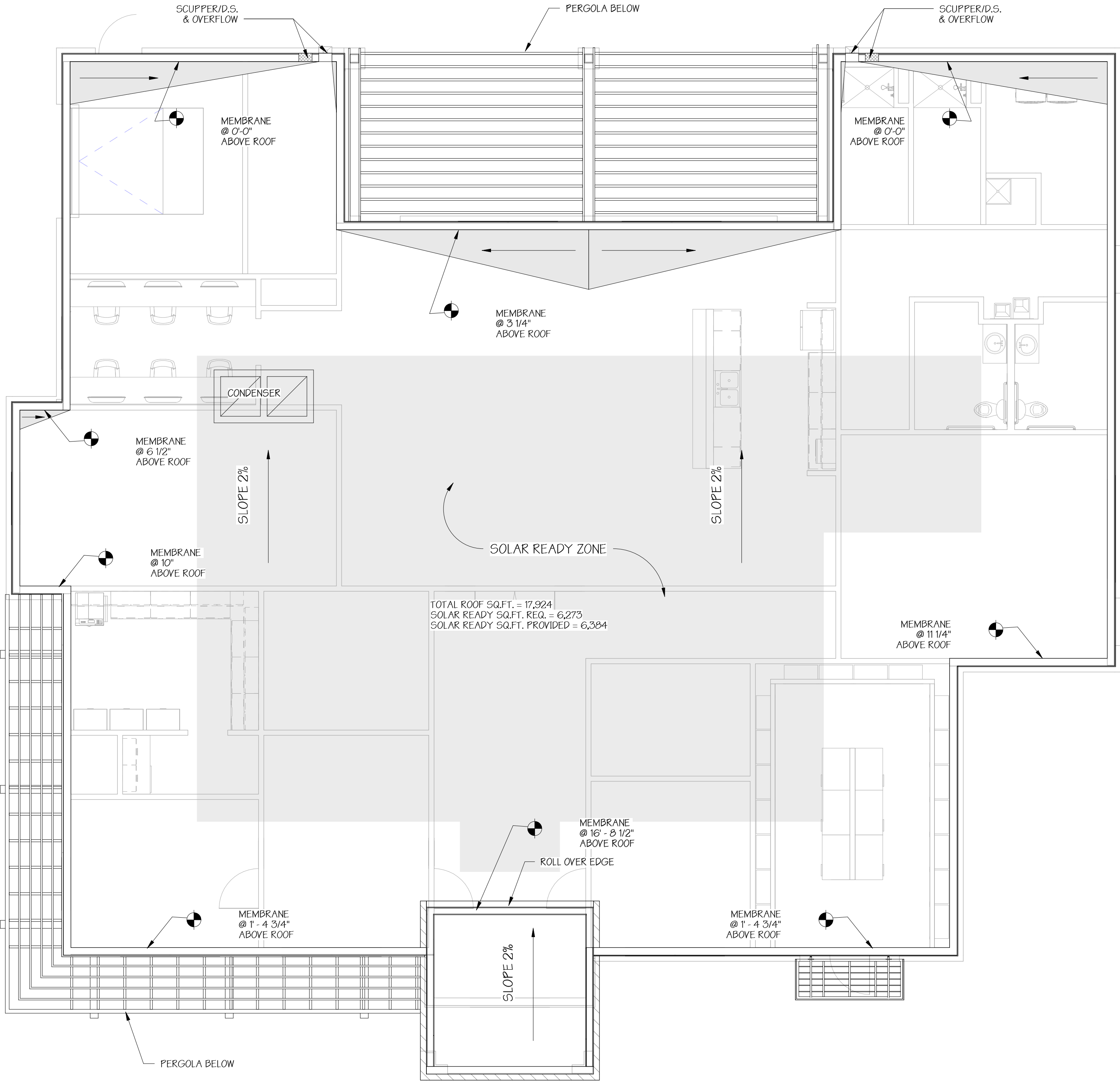
ROOF CRICKET

SOLAR READY ZONE

WALKWAY PAD

DRY IN NOTE

THE ENTIRE BUILDING ENVELOPE (INCLUDING ROOF, WALLS & FLOORS) TO BE DRIED IN PRIOR TO THE STORAGE AND INSTALLATION OF INTERIOR FINISH MATERIALS, (INCLUDING GYPSUM WALL BOARD AND INSULATION). IN ADDITION, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THERE HAS BEEN NO EVIDENCE OF WATER PENETRATING THE BUILDING ENVELOPE OR WATER LEAK(S), FROM MECHANICAL AND/OR FIRE SPRINKLER SYSTEMS PRIOR TO ENCLOSING THE WALL, CEILING, OR ROOF CAVITIES.

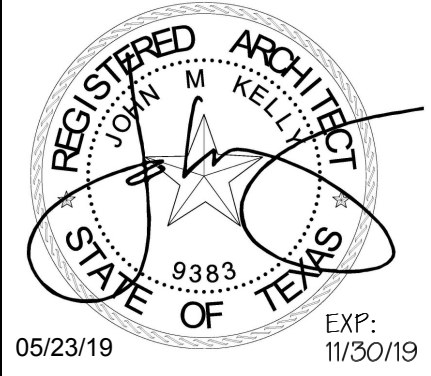


1 CLUBHOUSE ROOF PLAN
3/16" = 1'-0"

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JMK

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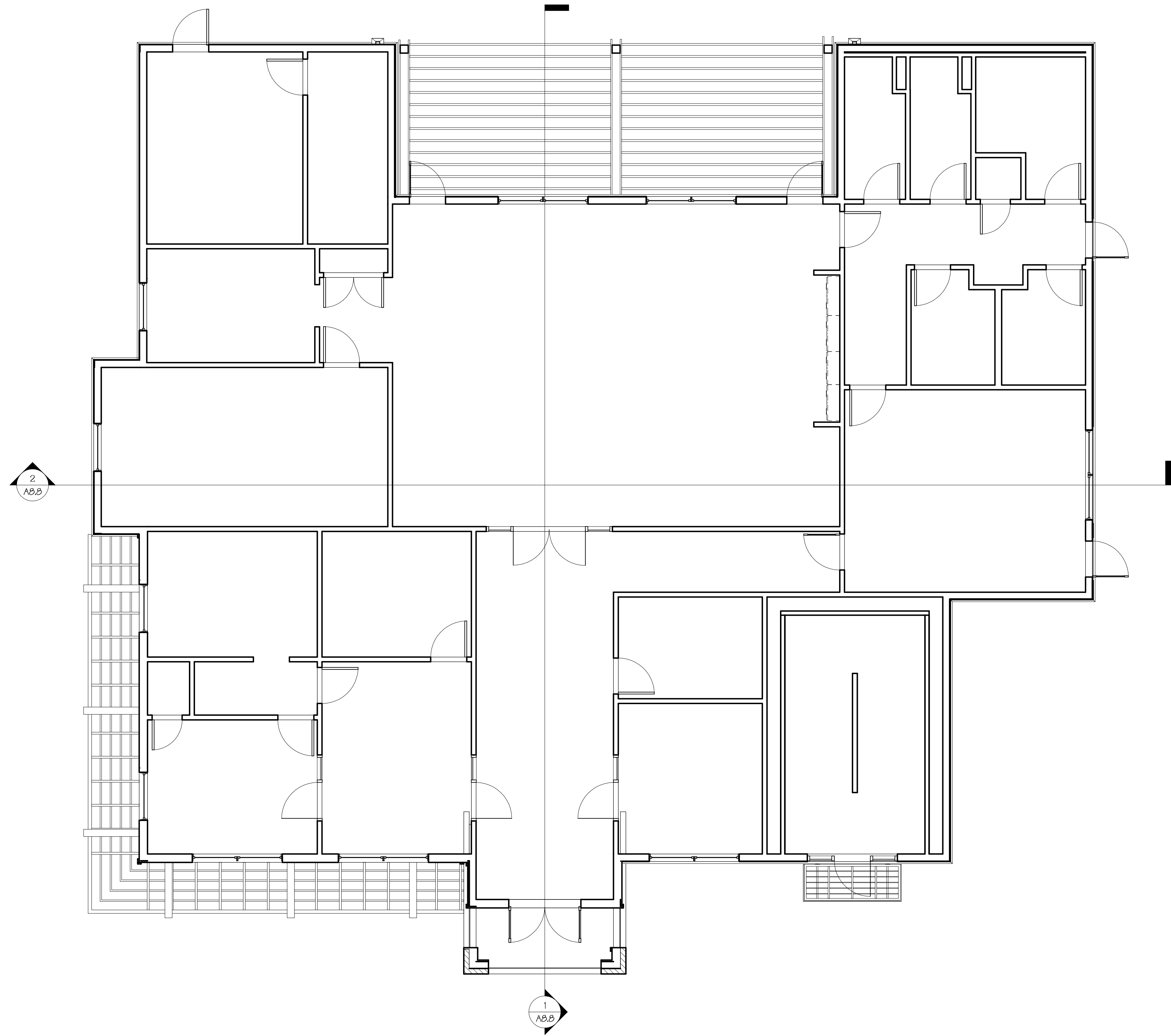
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01/10/19		
DESCRIPTION		
CLUBHOUSE ROOF PLAN		
SHEET		
A8.4		



1 CLUBHOUSE RCP
3/16" = 1'-0"

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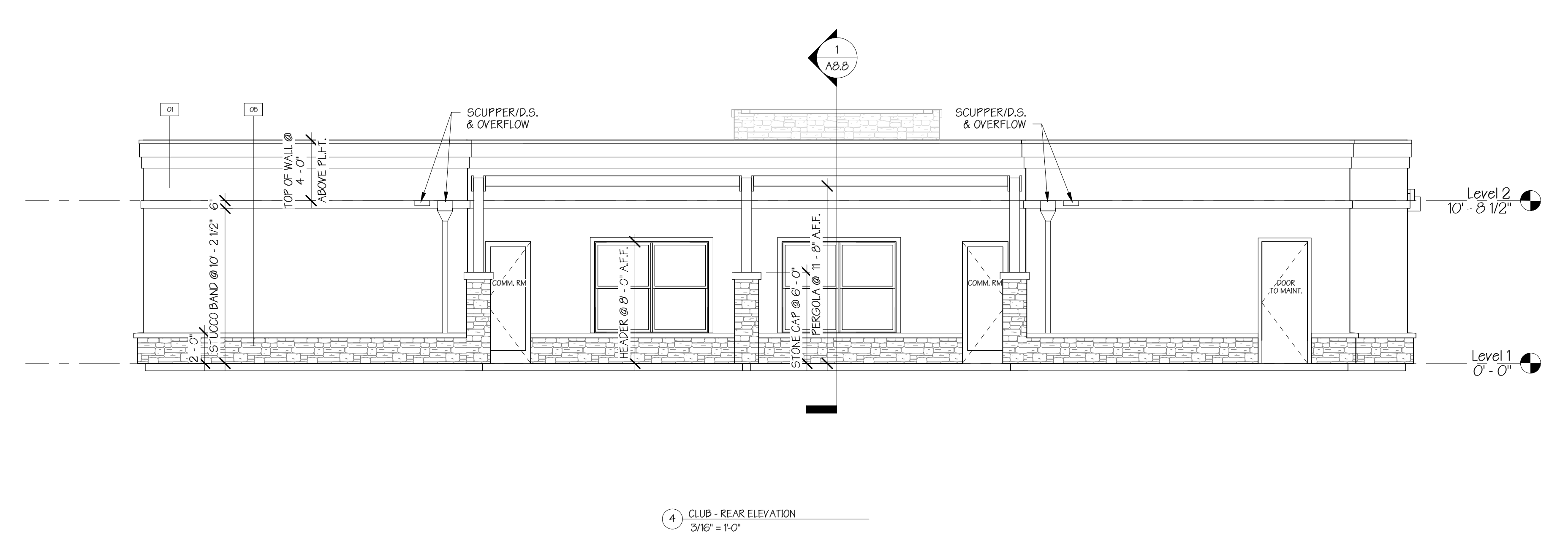
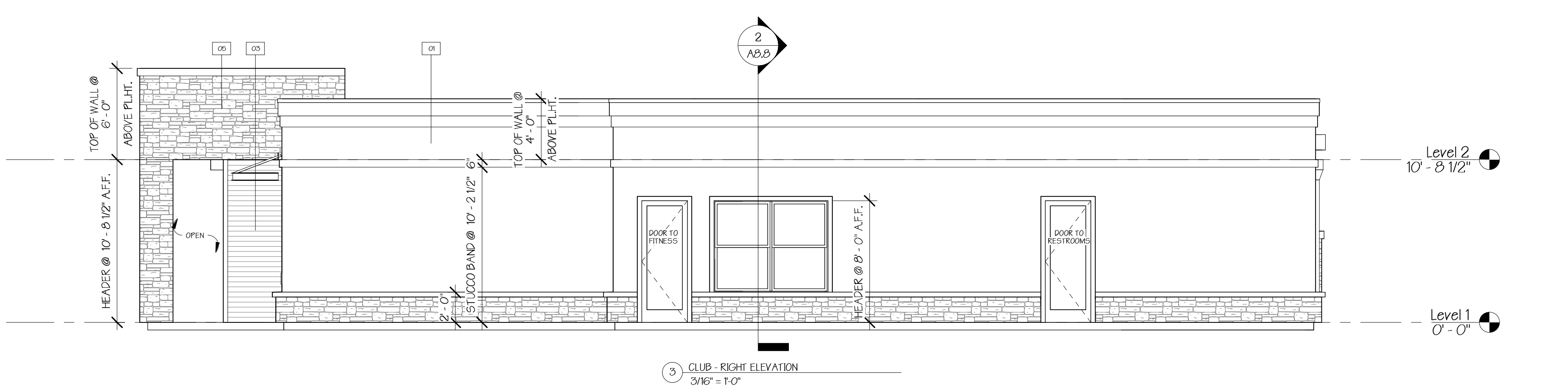
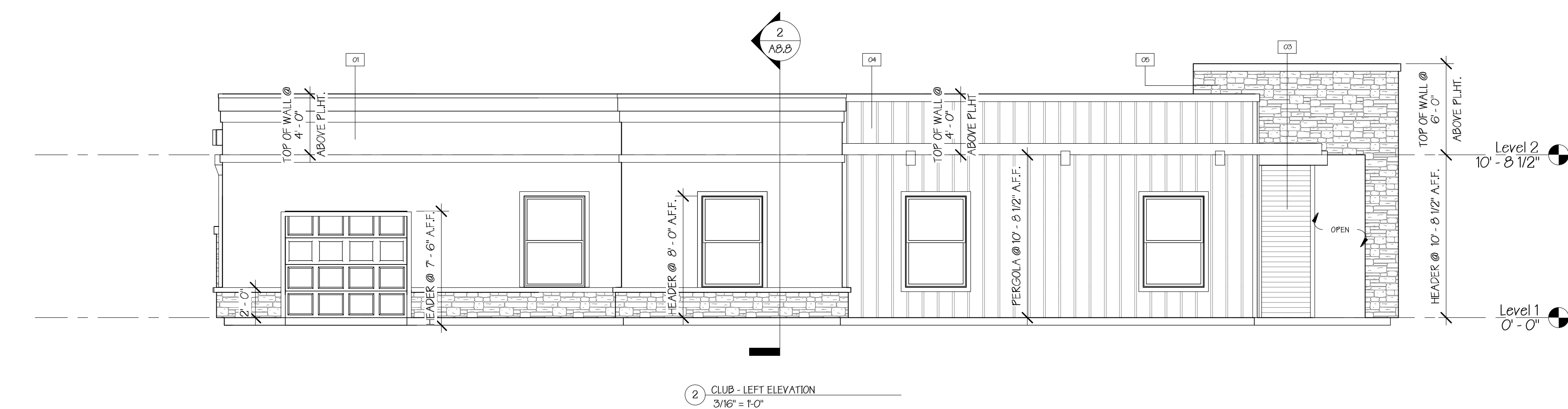
DWG NAME

DATE
01/10/19

DESCRIPTION
CLUBHOUSE REFLECTED
CEILING PLAN

SHEET
A8.5

6/10/2019 4:48:58 PM



MATERIAL PATTERN LEGEND

01	STUCCO (COLOR 1)
02	LAP SIDING 1 (8" EXP.)
03	LAP SIDING 2 (6" EXP.)
04	B&B SIDING
05	STONE
06	STANDING SEAM ROOF
07	COLUMN

ADDRESS NUMBERS AT LEAST 8"
HIGH MUST BE VISIBLE FROM THE
STREET

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EXP: 11/30/19

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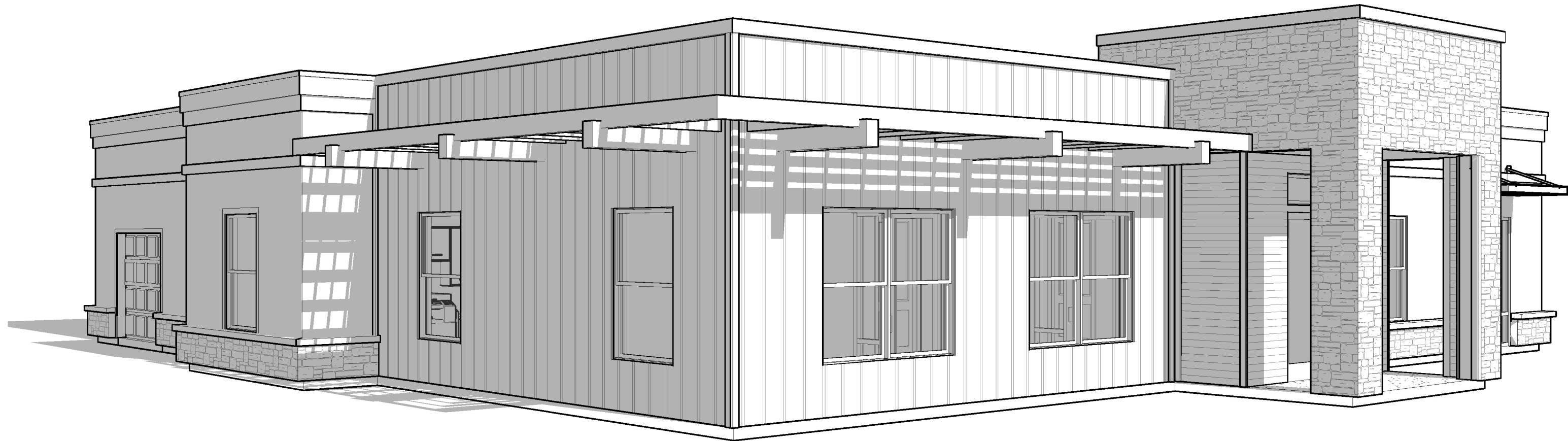
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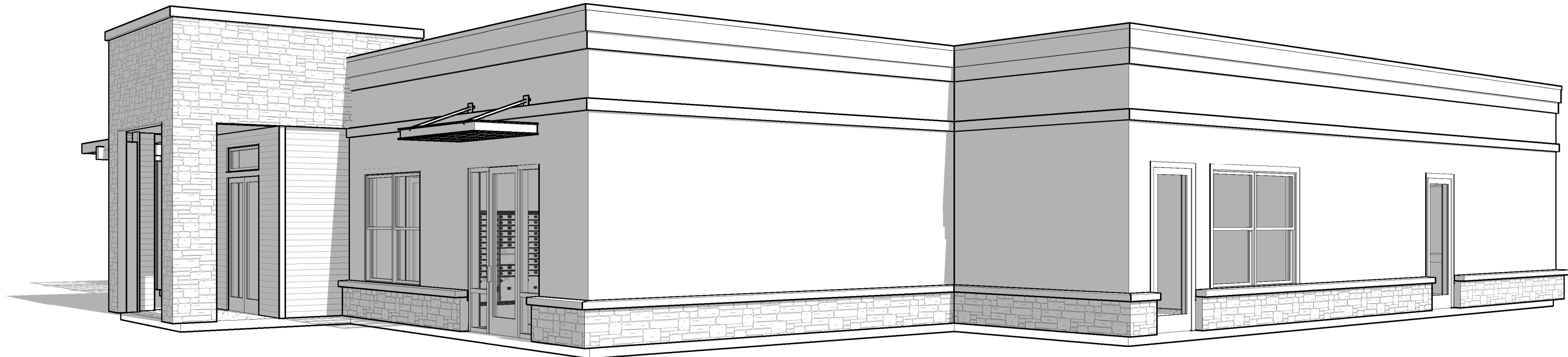
MOONLIGHT GARDEN

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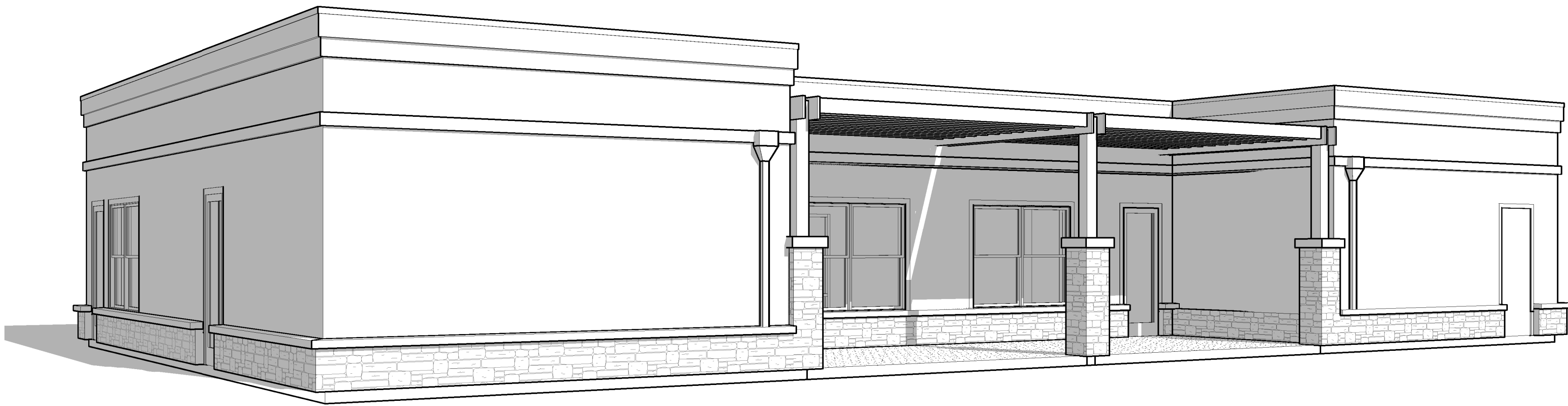
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CLUBHOUSE EXTERIOR ELEVATIONS		
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A8.6		



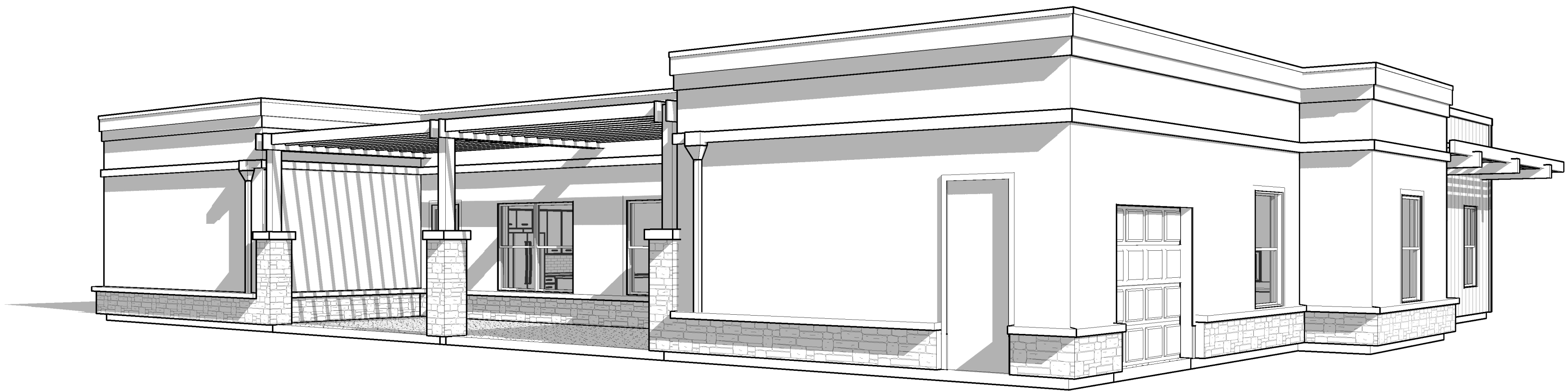
1 RIGHT/FRONT PERSPECTIVE



2 LEFT/FRONT PERSPECTIVE



3 LEFT/REAR PERSPECTIVE



4 RIGHT/REAR PERSPECTIVE

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STATE OF TEXAS
9383
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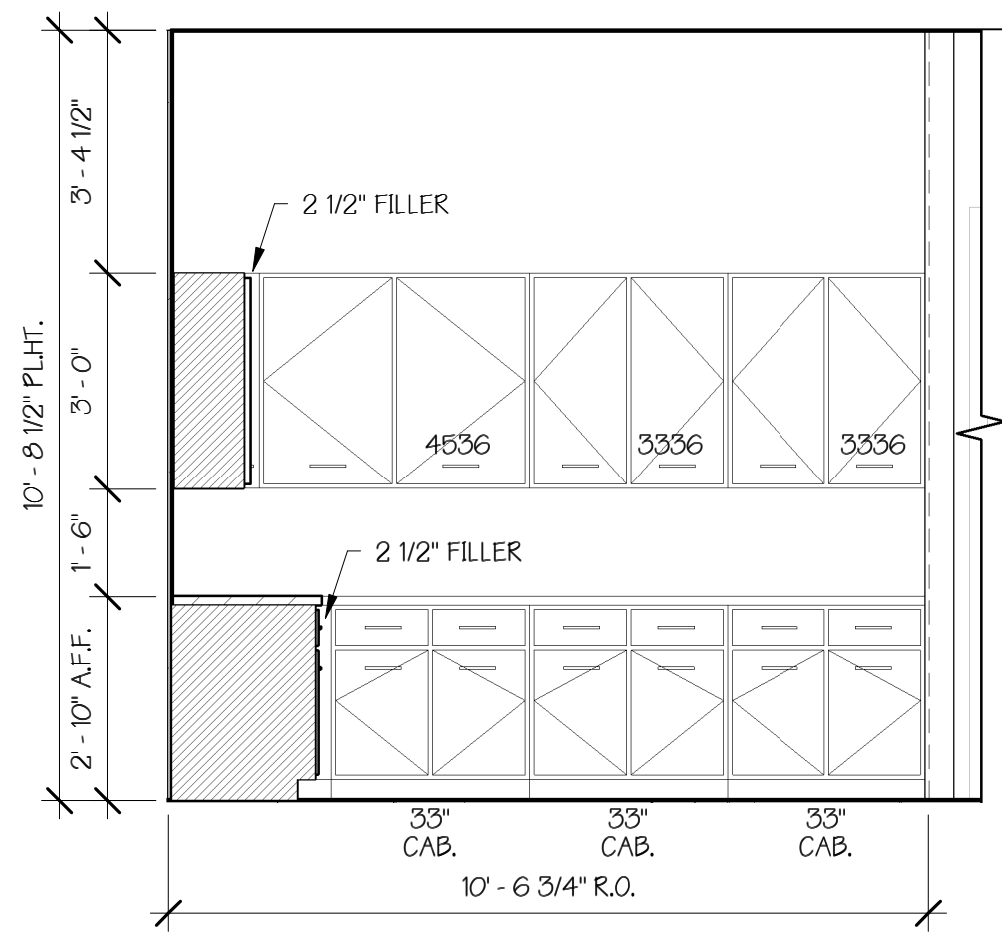
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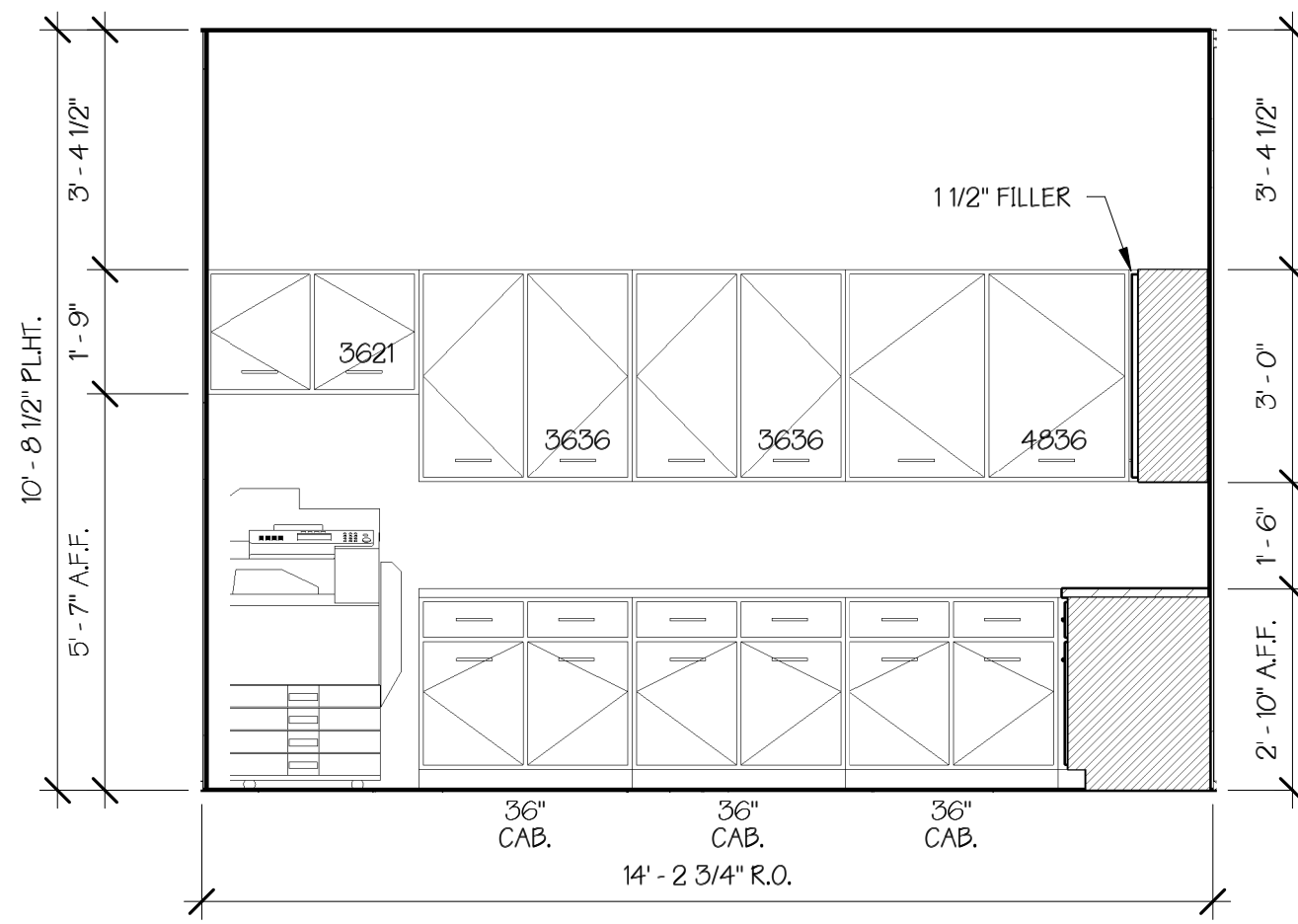
MOONLIGHT GARDEN

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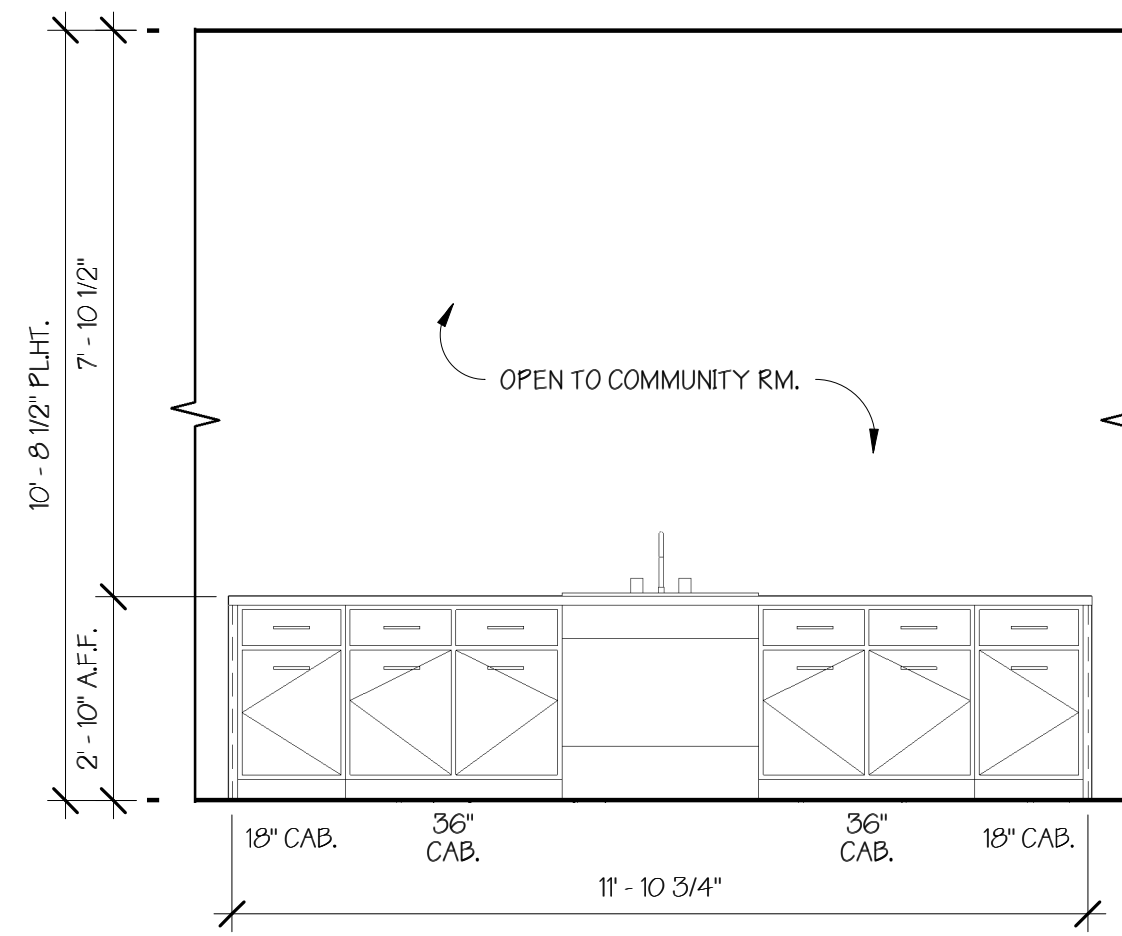
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DESCRIPTION		
CLUB HOUSE PERSPECTIVES		
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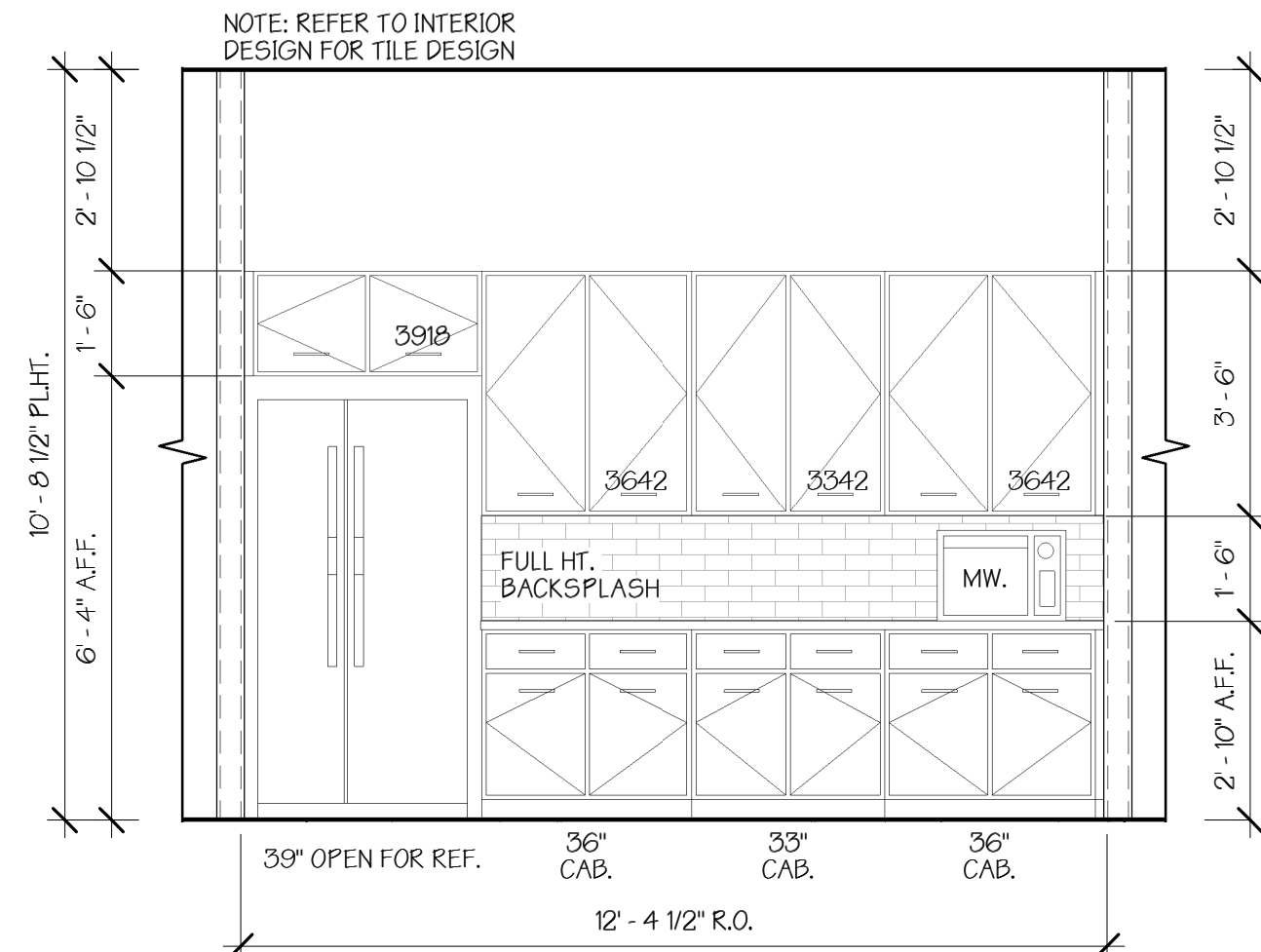
4 WORK ROOM 2
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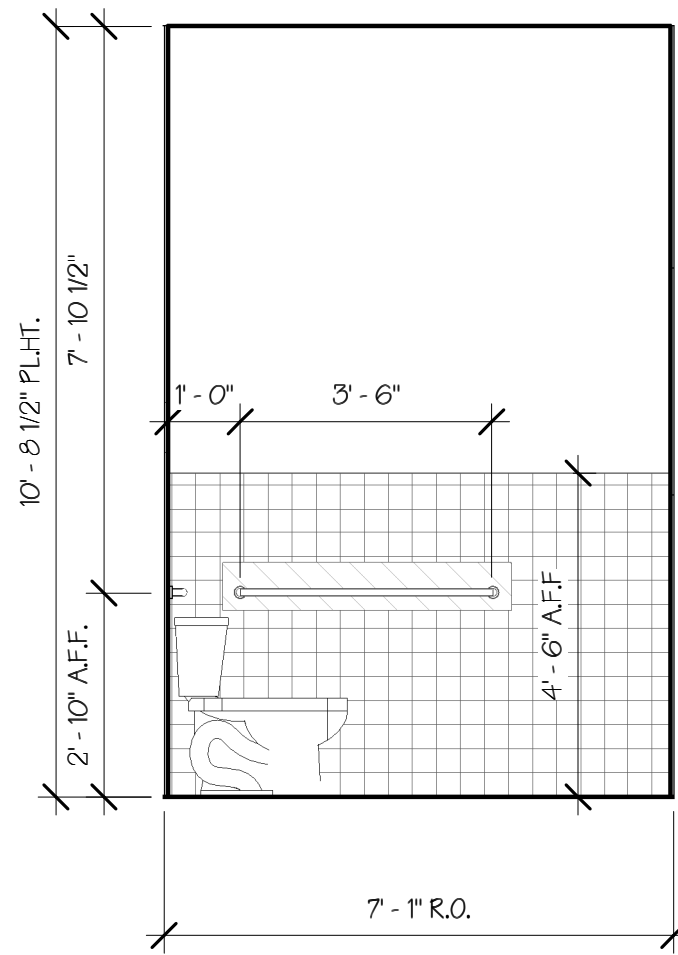
3 WORK ROOM 1
3/8" = 1'-0"



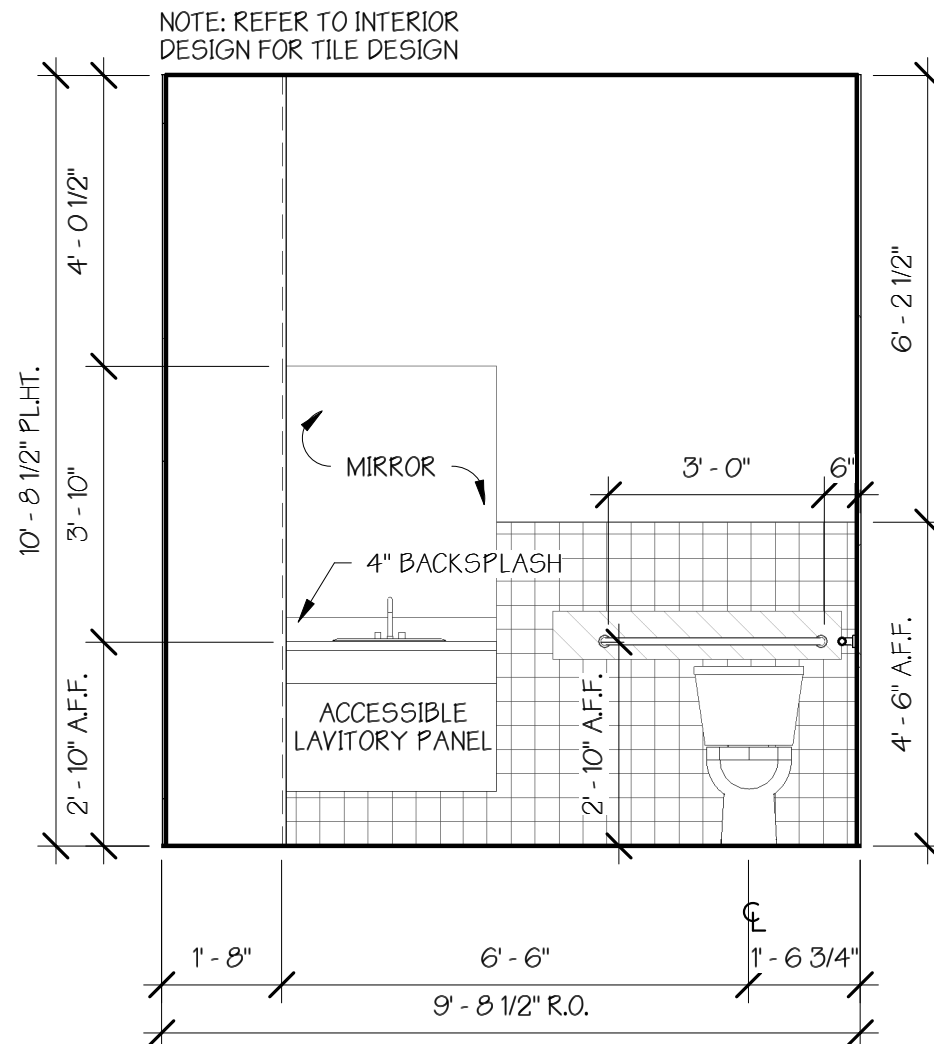
2 KITCHEN 2
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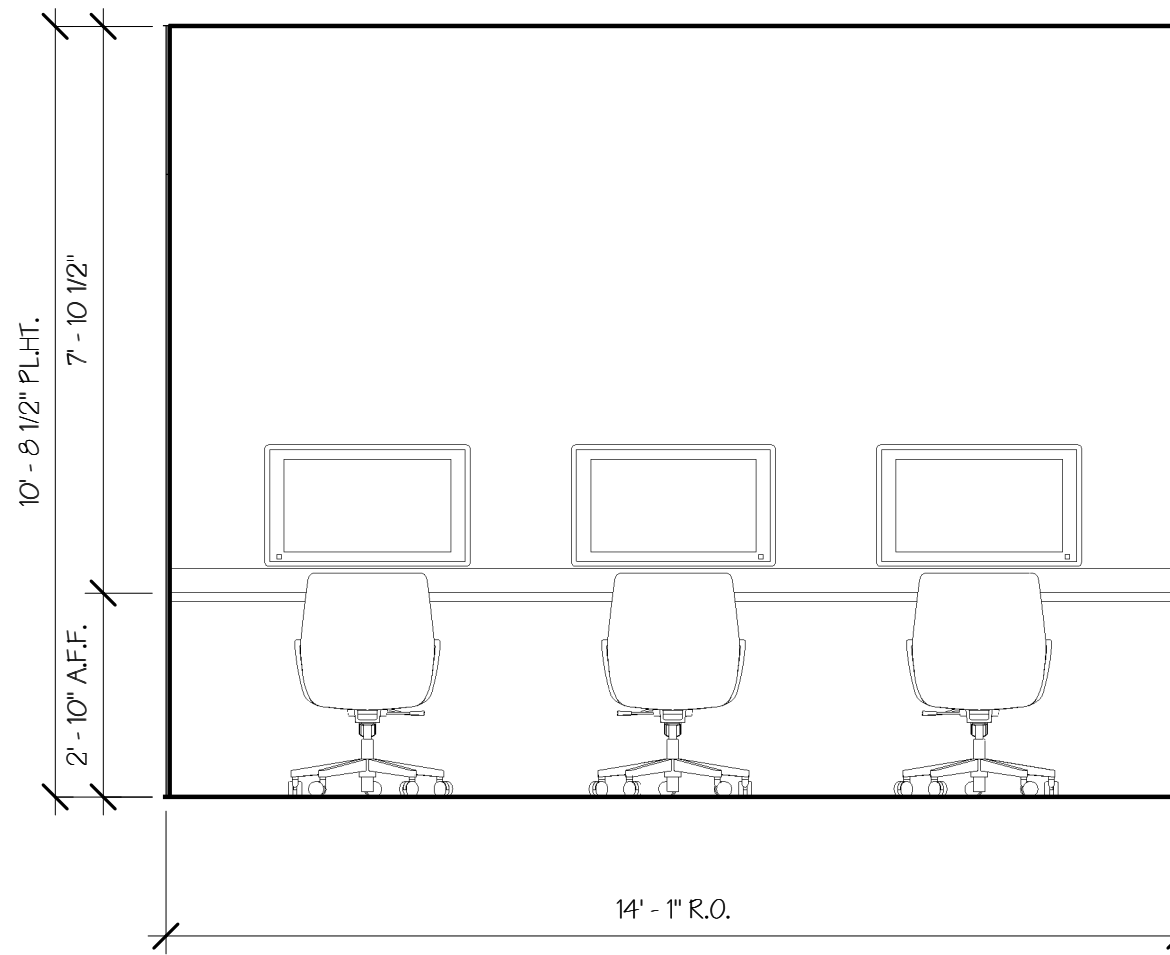
1 KITCHEN 1
3/8" = 1'-0"



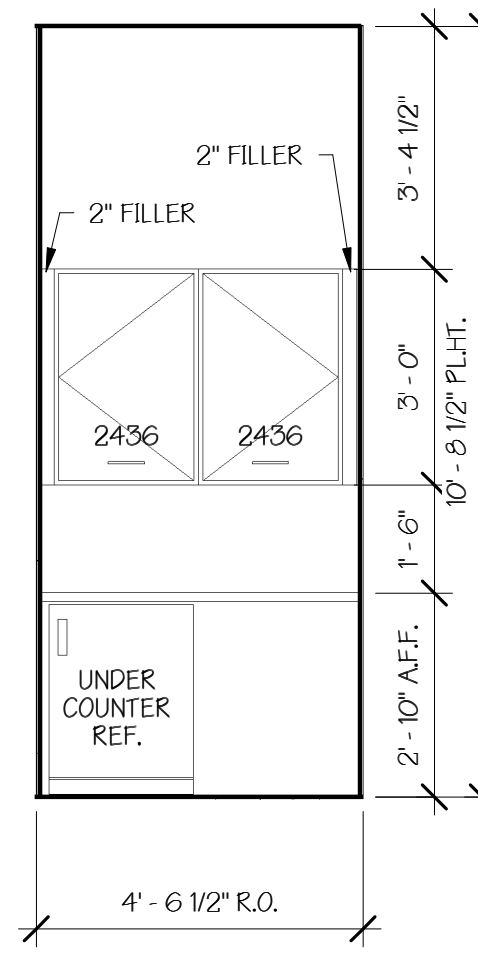
9 RESTROOM 2
3/8" = 1'-0"



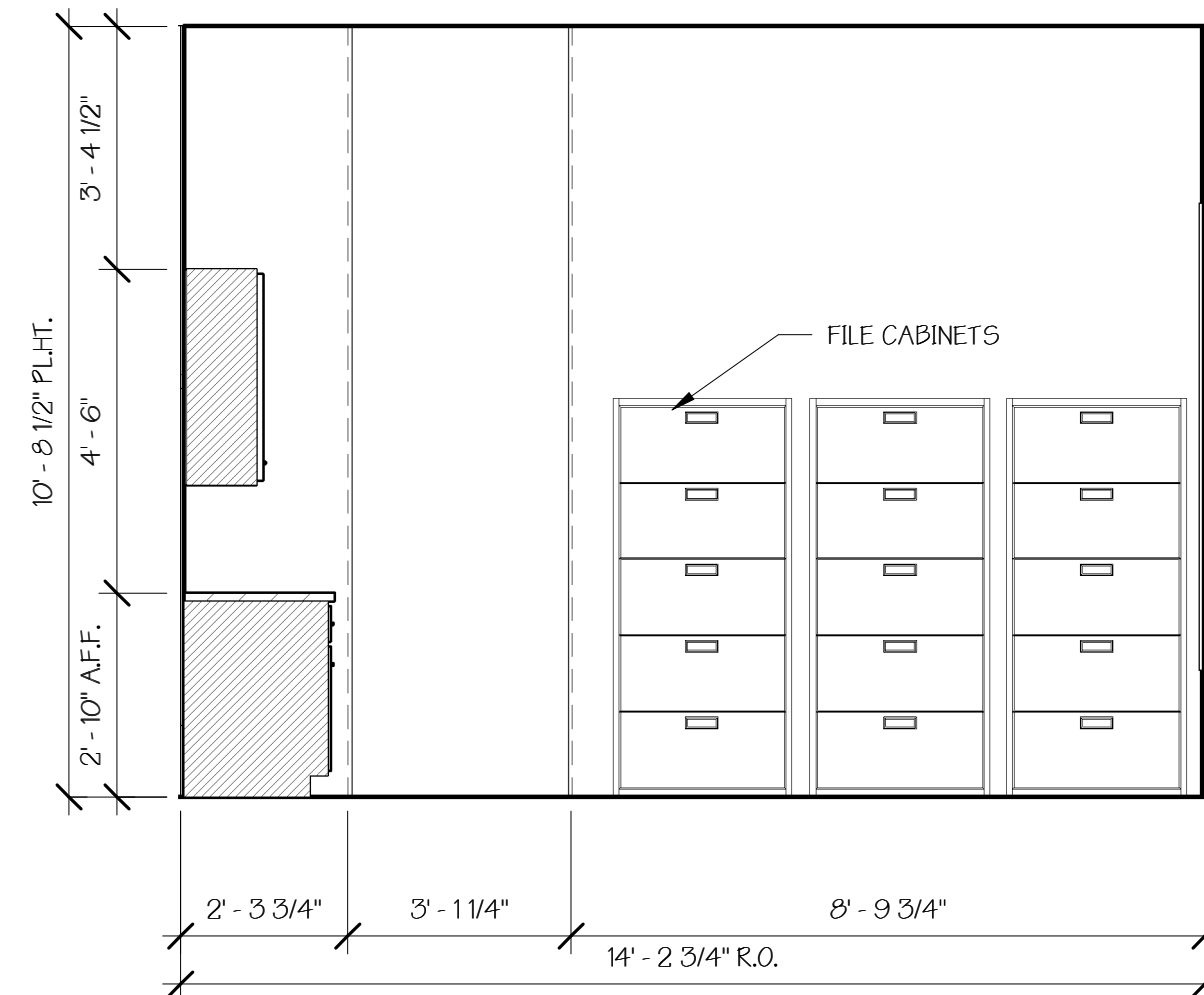
8 RESTROOM 1
3/8" = 1'-0"



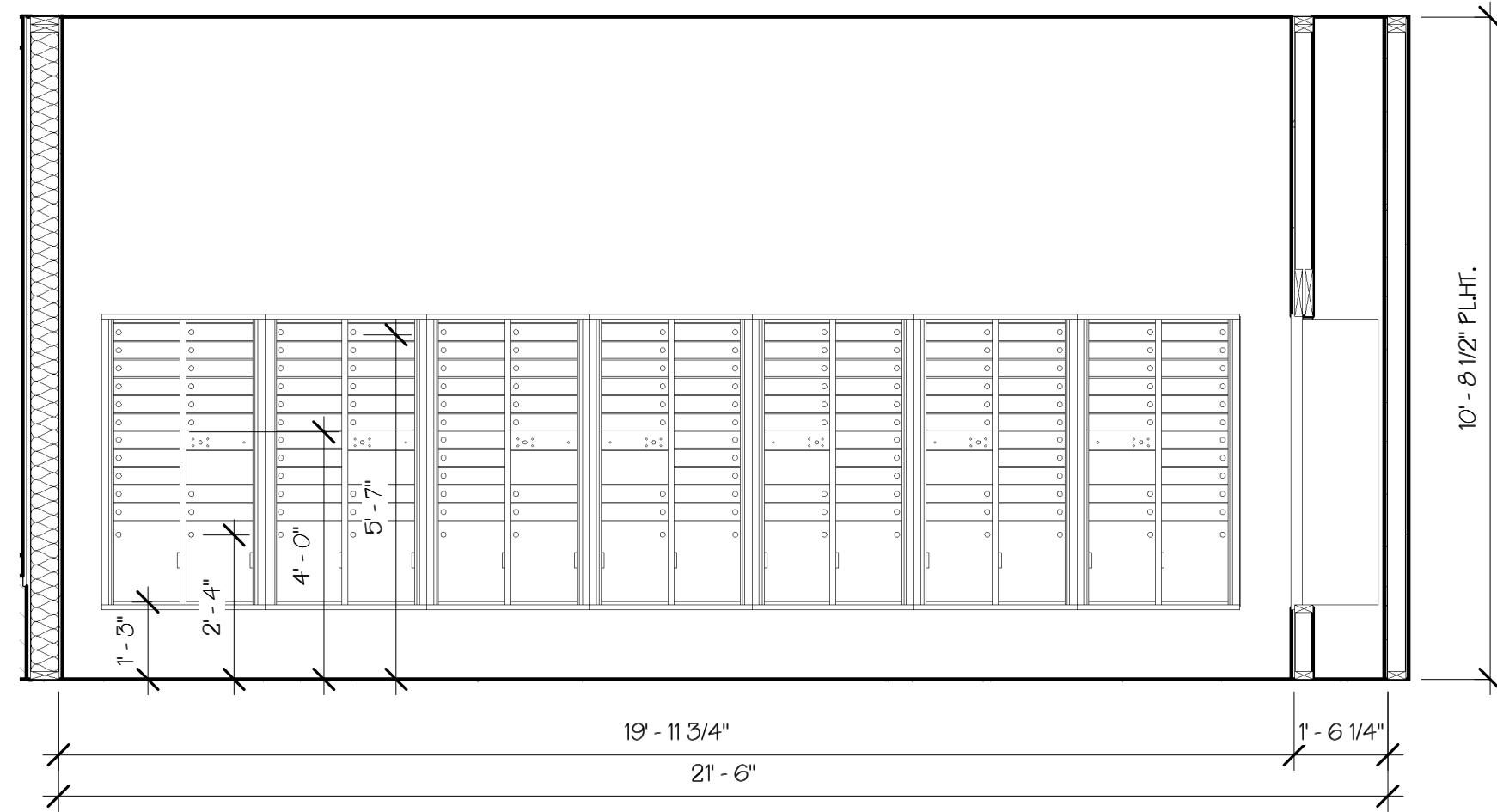
7 BUSINESS CENTER
3/8" = 1'-0"



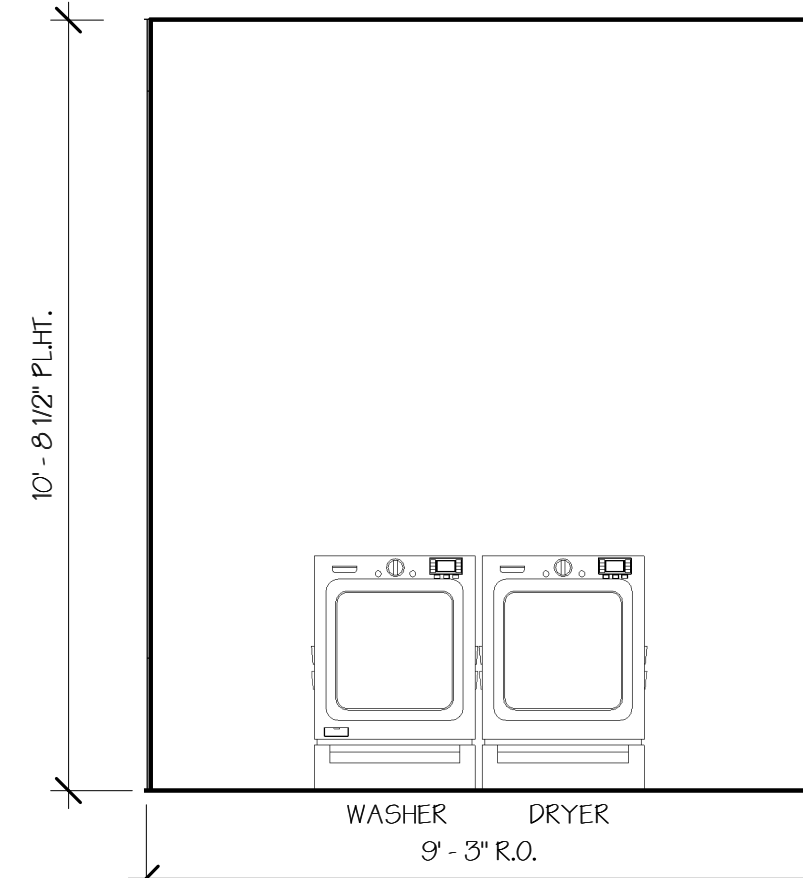
6 COFFEE BAR
3/8" = 1'-0"



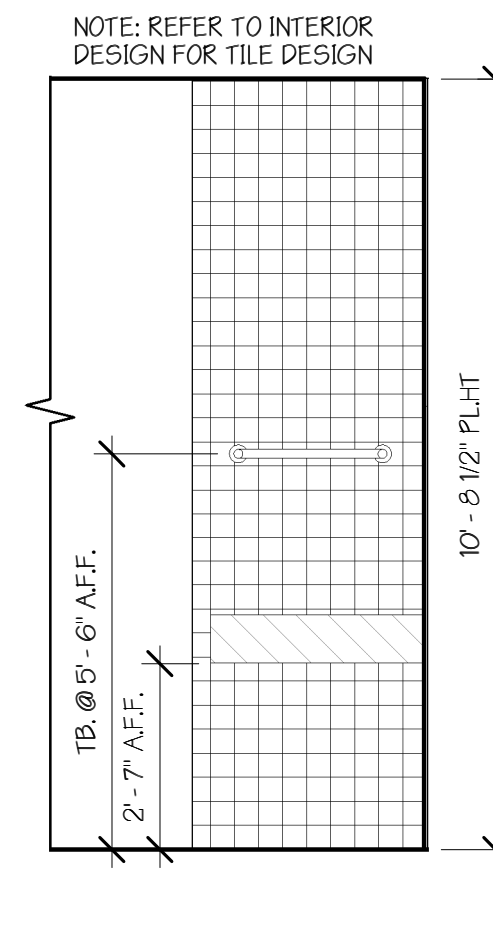
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3/8" = 1'-0"



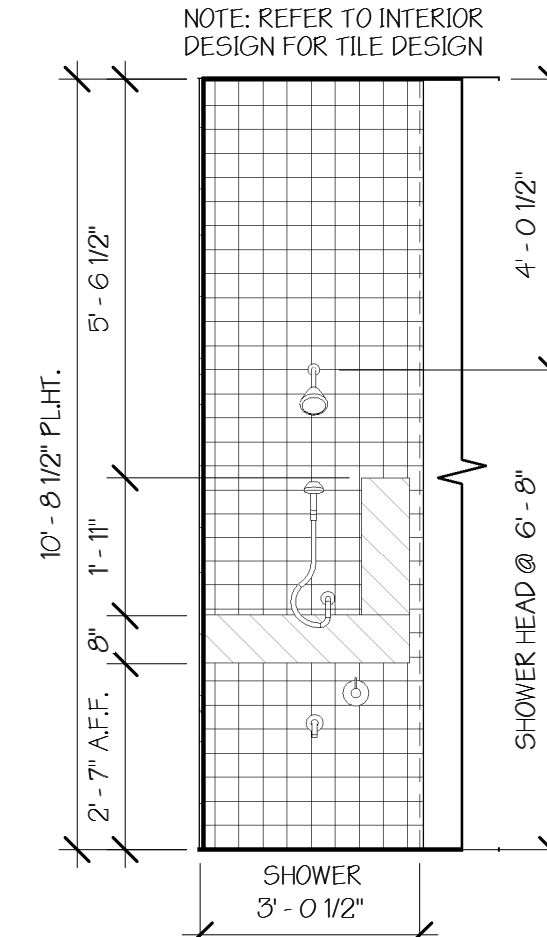
14 MAIL ROOM 1
3/8" = 1'-0"



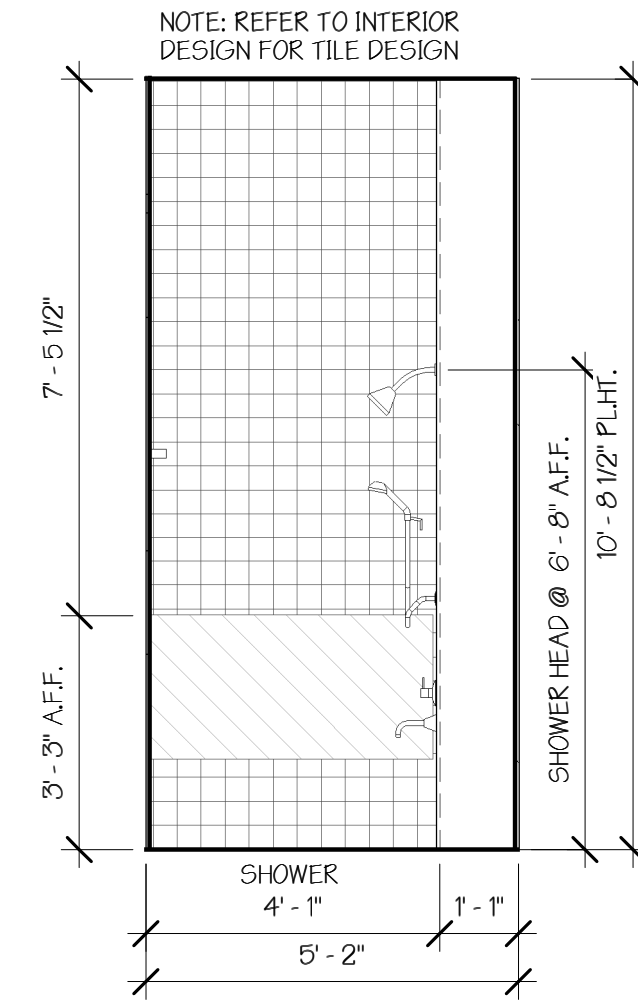
13 LAUNDRY
3/8" = 1'-0"



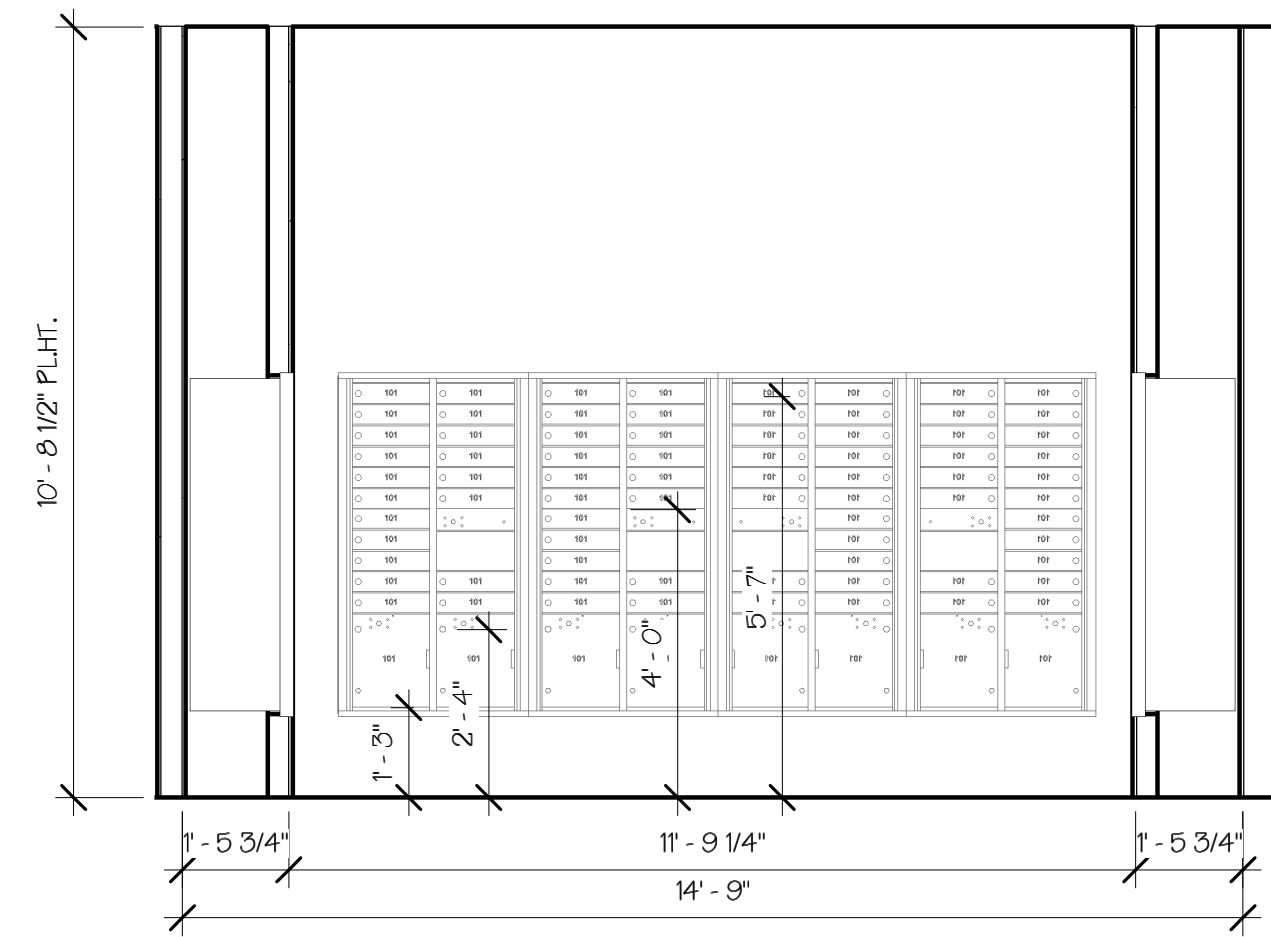
12 SHOWER 3
3/8" = 1'-0"



11 SHOWER 2
3/8" = 1'-0"



10 SHOWER 1
3/8" = 1'-0"

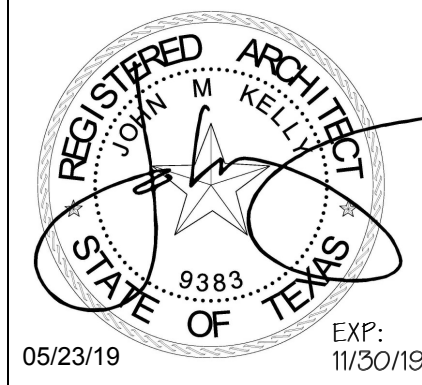


15 MAIL ROOM 2
3/8" = 1'-0"

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MAR

CHECKED BY:
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MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX
78747

No.	Revision	Date
△		
△		
△		
△		
△		

ISSUED FOR PERMIT

06-10-2019

ISSUED FOR BID

ISSUED FOR CONSTRUCTION

DWG NAME

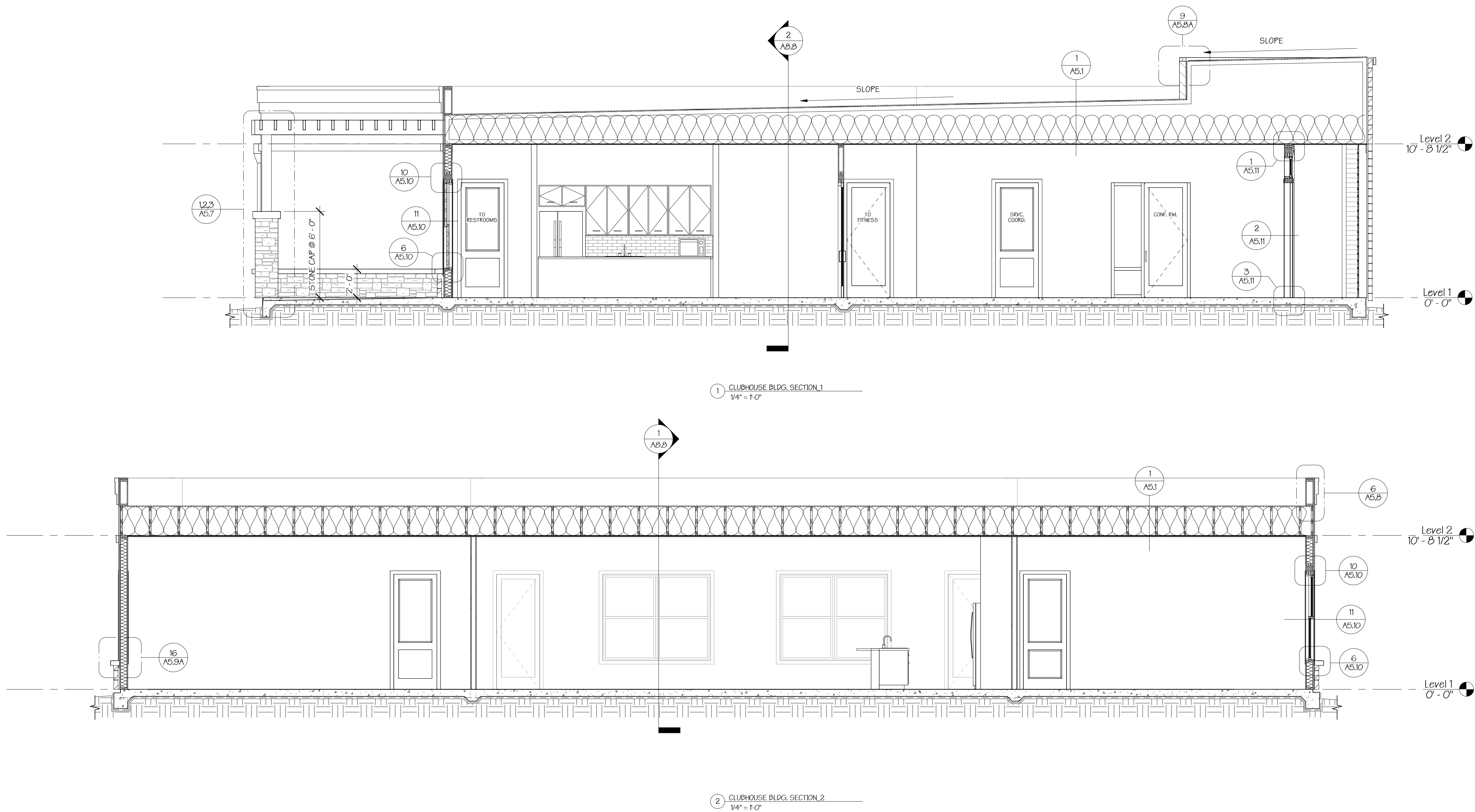
DATE

05/16/19

DESCRIPTION
CLUBHOUSE INTERIOR
ELEVATIONS

SHEET

A8.7



1 CLUBHOUSE BLDG. SECTION 1
1/4" = 1'-0"

2 CLUBHOUSE BLDG. SECTION 2
1/4" = 1'-0"

DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

05/23/19

LDG DEVELOPEMENT

1469 SOUTH FOURTH STREET, LOUISVILLE, KY 40208,
(P) 502.609.4940

ARCHITECTURE • LAND PLANNING • LANDSCAPE DESIGN • CONSTRUCTION ADMINISTRATION •
KELLY GROSSMAN
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MOONLIGHT GARDEN

8901 NUCKOLIS CROSSING RD, AUSTIN TX 78747

No.	Revision	Date
1		
2		
3		
4		
5		

ISSUED FOR PERMIT

06-10-2019

ISSUED FOR BID

ISSUED FOR CONSTRUCTION

DWG NAME

DATE

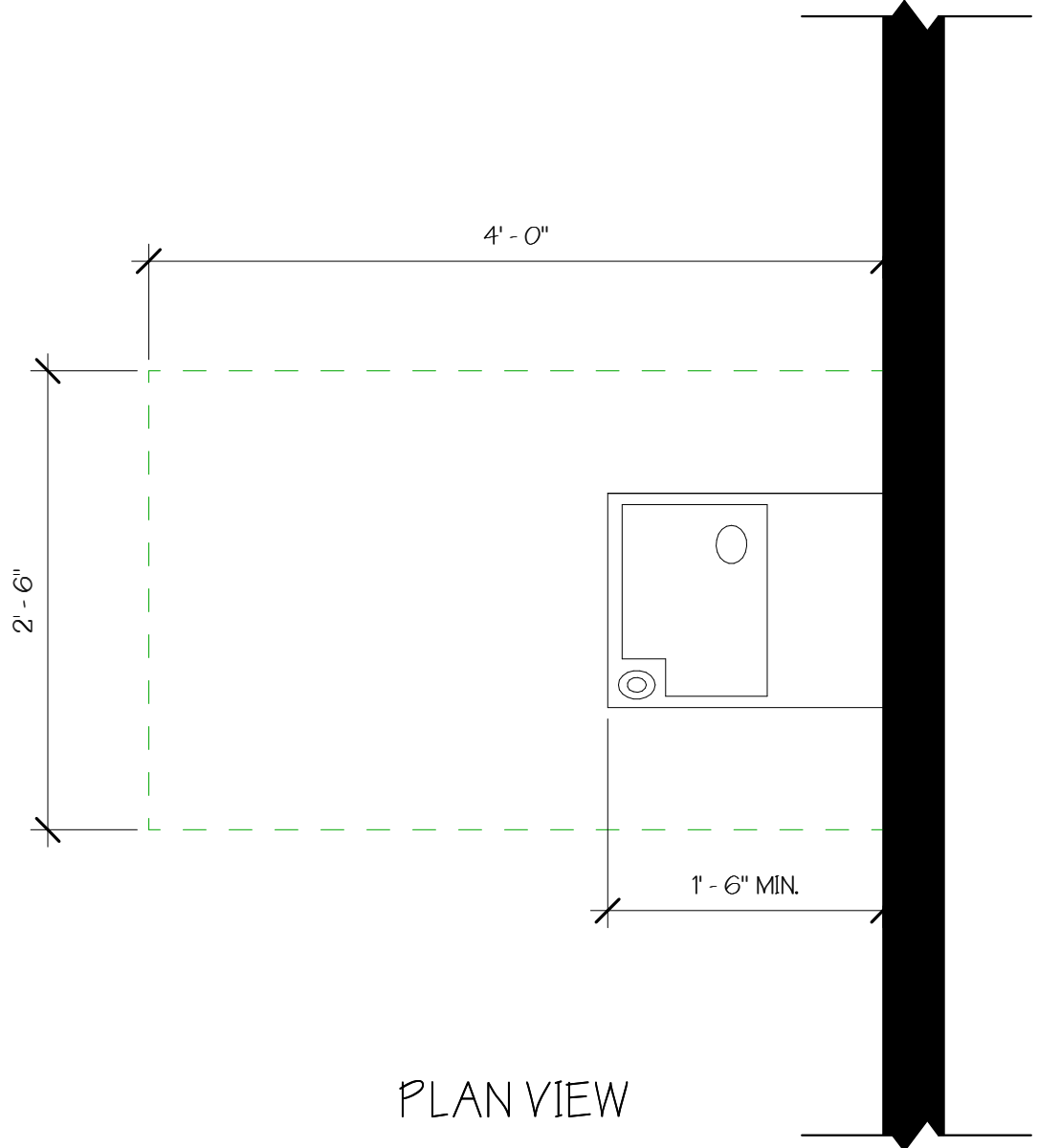
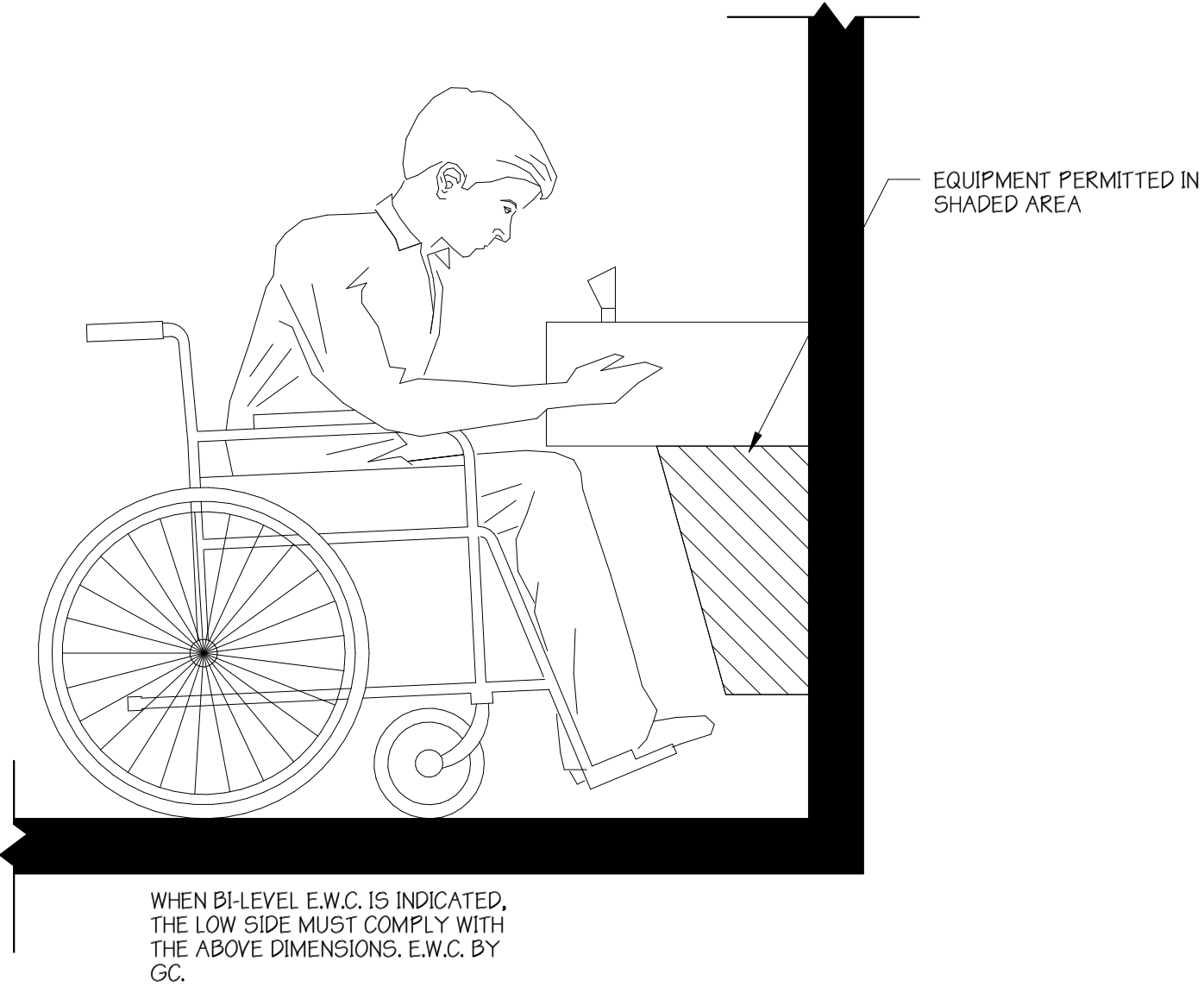
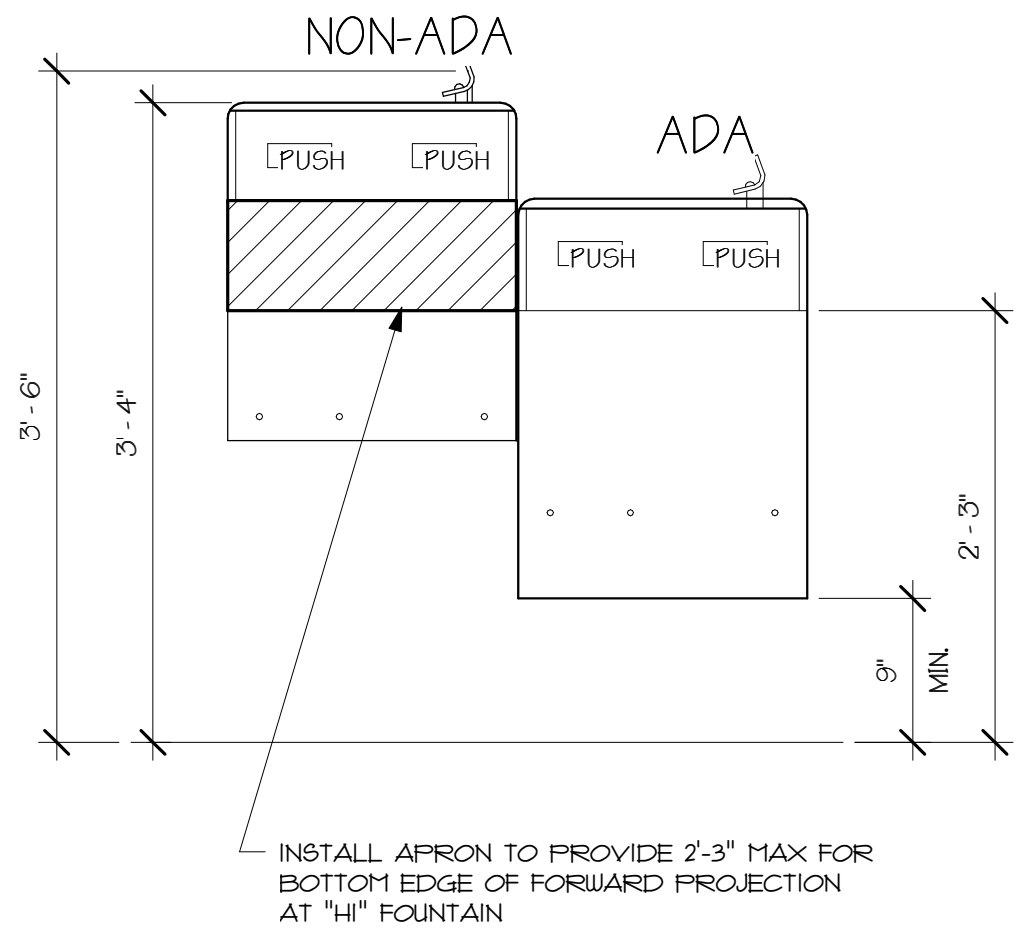
05/21/19

DESCRIPTION

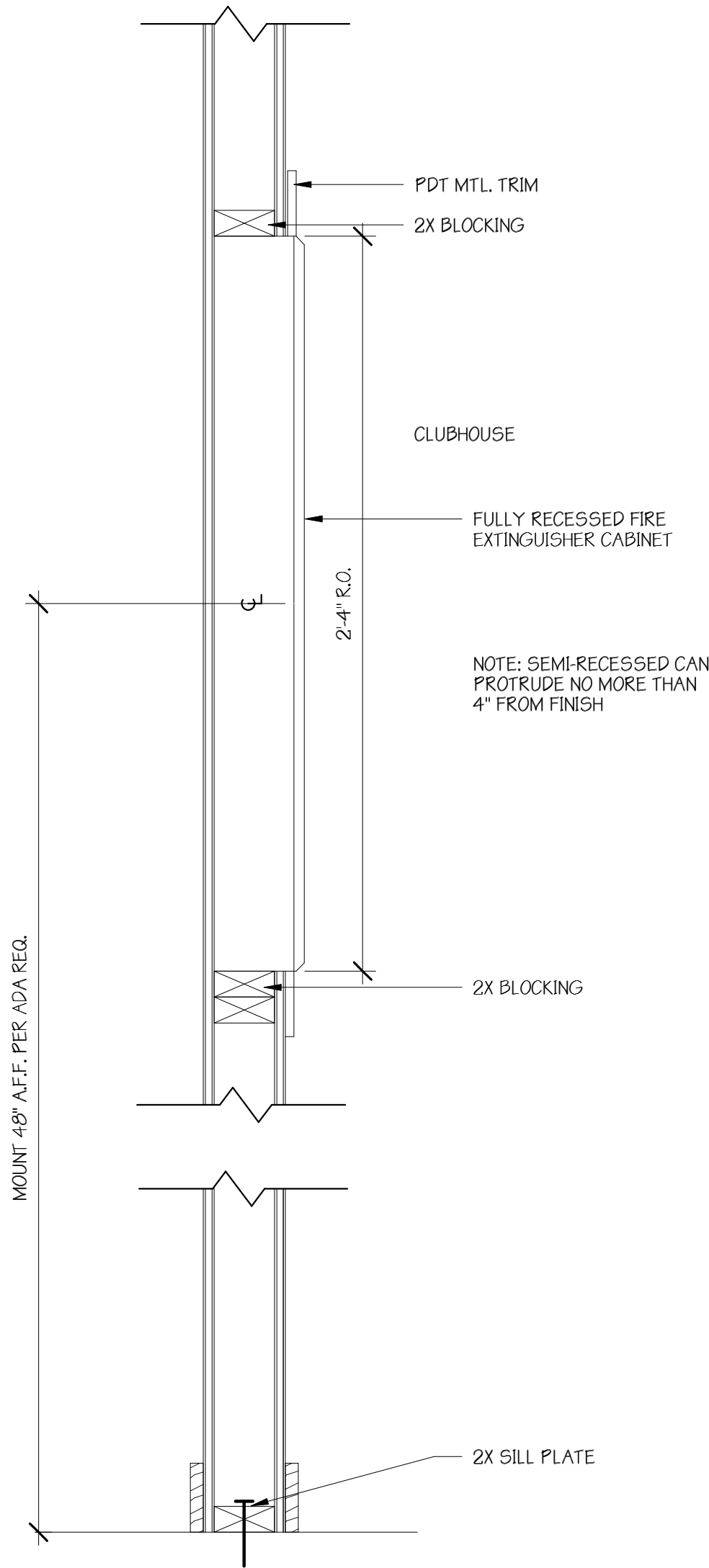
CLUBHOUSE BUILDING SECTION

SHEET

A8.8



1 TYPICAL DRINKING FOUNTAIN DETAILS 1 1/2"



3 FIRE EXTINGUISHER CABINET @ CLUBHOUSE 1 1/2"

DRAWN BY:
DPF,
MAR

CHECKED BY:
JMK

PROJECT #:
18-2325

05/23/19 EXP: 11/30/19

LDG DEVELOPEMENT

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(P) 502.609.4940

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MOONLIGHT GARDEN

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06-10-2019		
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ISSUED FOR CONSTRUCTION		
DWG NAME		
DATE		
01/05/18		
DESCRIPTION		
CLUBHOUSE DETAILS		
SHEET		
A8.9		

MOONLIGHT GARDEN

MULTIFAMILY APARTMENTS

8901 NUCKOLS CROSSING RD

AUSTIN, TEXAS 78747



264 UNITS

REQUIRED SIGNATURES	
OWNER	SIGNATURE _____ DATE _____
	PRINTED NAME _____
	TITLE _____
BOND COMPANY	SIGNATURE _____ DATE _____
	PRINTED NAME _____
	TITLE _____
GENERAL CONTRACTOR	SIGNATURE _____ DATE _____
	PRINTED NAME _____
	TITLE _____
ARCHITECT	SIGNATURE _____ DATE _____
	PRINTED NAME _____
	TITLE _____
LENDER	SIGNATURE _____ DATE _____
	PRINTED NAME _____
	TITLE _____

SDP #
PERMIT #