

NORWOOD PARK APARTMENTS

AUSTIN, TEXAS

Developer By: LDG

Architecture By : KELLY GROSSMAN

DESIGN CRITERIA

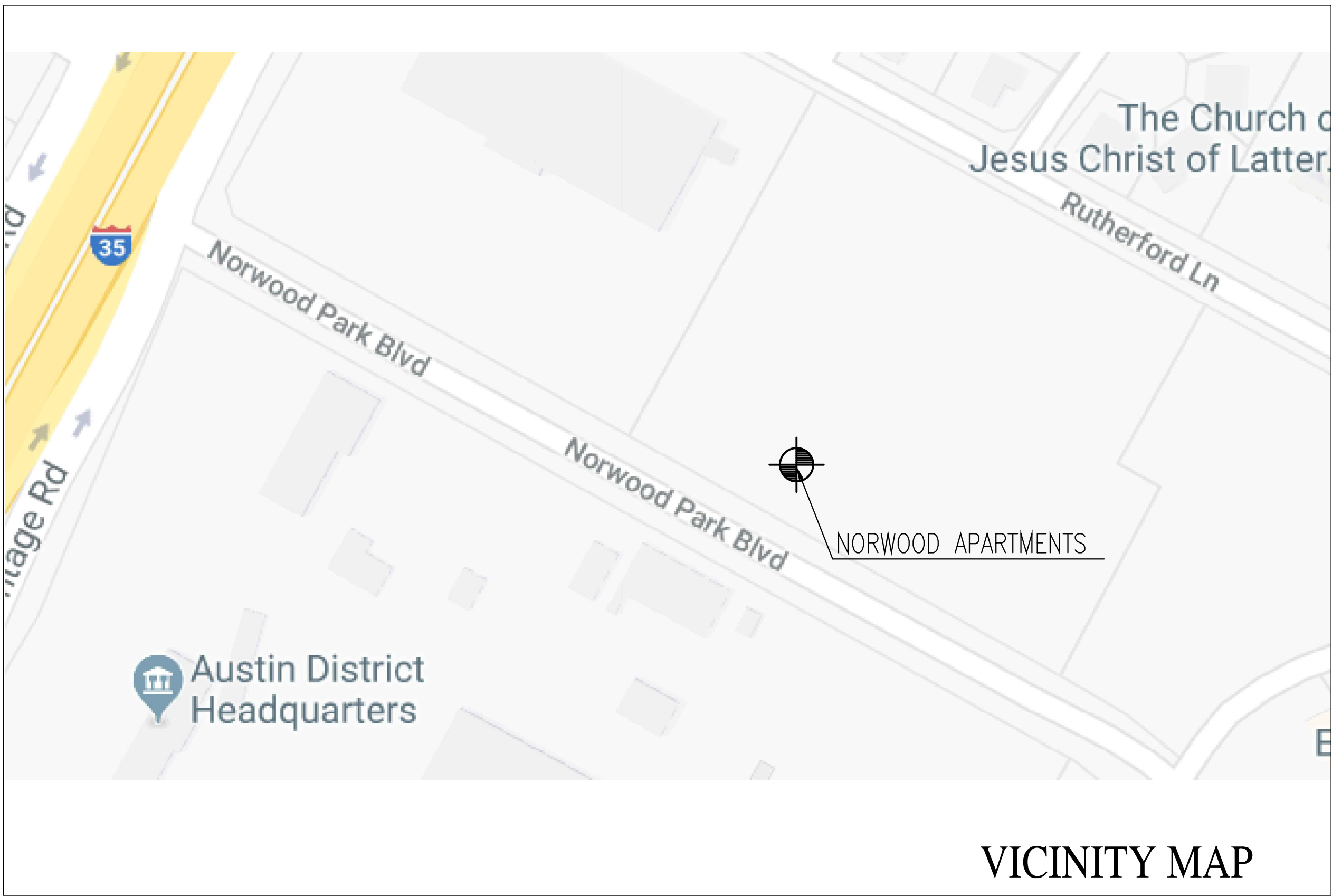
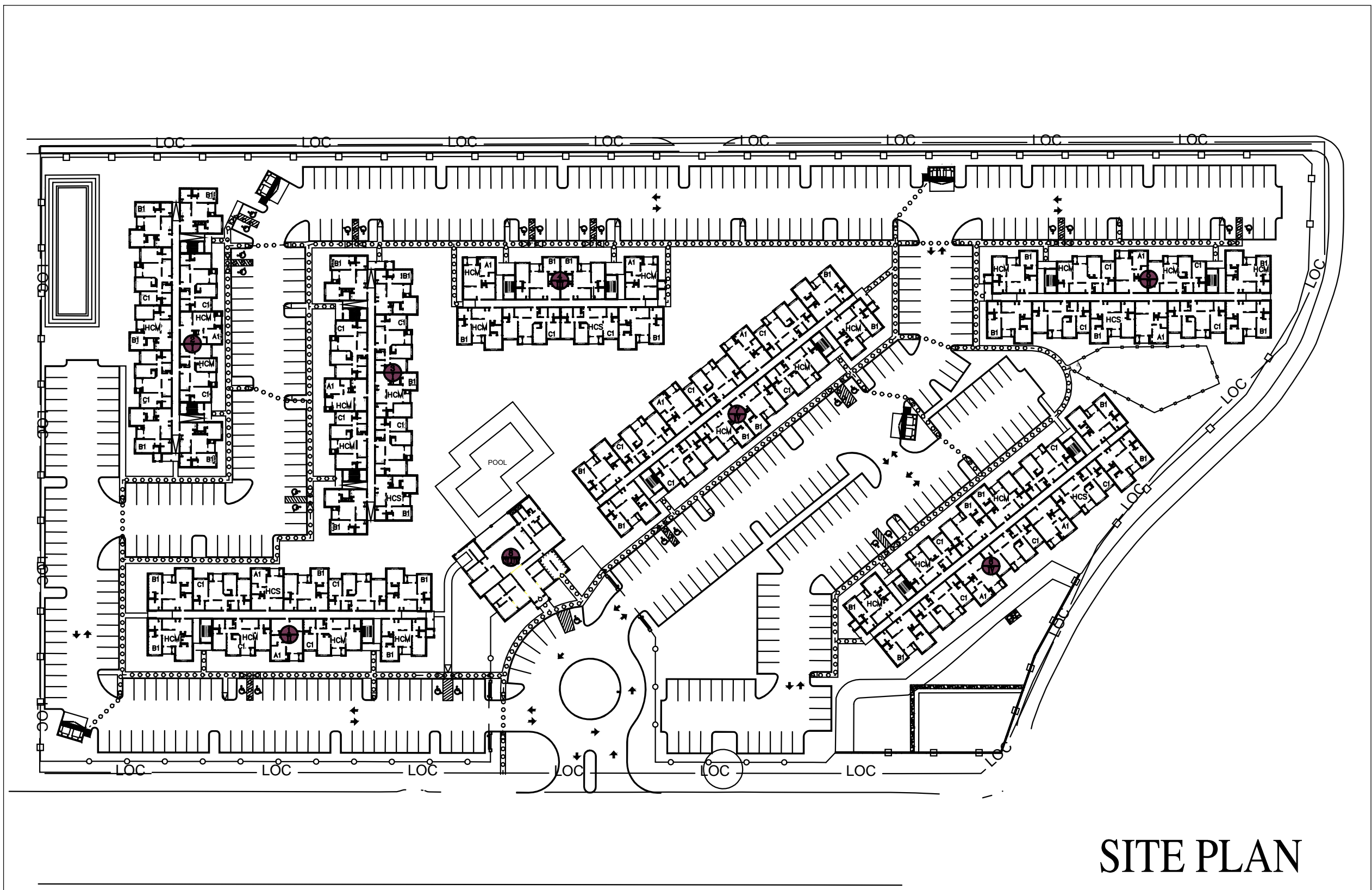
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2015 IBC CODE.
- 1607.1 - LIVE LOADS:
 - FLOOR: 40 psf
 - BALCONY: 40 psf (SAME AS OCCUPANCY SERVED)
 - PUBLIC AREA: 100 psf
- 1607.1.2 - ROOF LIVE LOAD: 20 psf
- 1608.2 - ROOF SNOW LOAD:
 - GROUND SNOW LOAD Pg: 5.0 psf
 - FLAT ROOF SNOW LOAD, Ps: 3.5 psf
 - RISK CATEGORY III
 - SNOW EXPOSURE FACTOR, Ce: 0.90
 - SNOW LOAD IMPORTANCE FACTOR, Is: 1.00
 - THERMAL FACTOR, Ct: 1.00
- 1609.3.1 - WIND DESIGN DATA:
 - NOMINAL DESIGN WIND SPEED, Vwd=93mph
 - ULTIMATE DESIGN WIND SPEED, Vult=120mph
 - WIND IMPORTANCE FACTOR, Iw: 1.00
 - EXPOSURE CATEGORY: B
 - INTERNAL PRESSURE COEFFICIENT: +/- 0.18
 - COMPONENTS AND CLADDING DESIGN WIND PRESSURES: RE: S0-4
- 1613.3.1 - EARTHQUAKE DESIGN DATA:
 - SEISMIC IMPORTANCE FACTOR, Ie: 1.00
 - SEISMIC USE GROUP: 1
 - SPECTRAL RESPONSE ACCELERATIONS, Ss & St: 0.064 & 0.033
 - SITE CLASS: C
 - SEISMIC DESIGN CATEGORY: A
 - BASIC SEISMIC FORCE RESISTING SYSTEM: LIGHT-FRAMED WALLS WITH SHEAR PANELS OF ALL OTHER MATERIALS.
 - DESIGN BASE SHEAR: 0.0265W
 - SEISMIC RESPONSE COEFFICIENT, Cs: 0.0265
 - RESPONSE MODIFICATION FACTOR, R: 2
 - ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE
- 1612.4 - FLOOD LOAD
 - N/A
- 1603.1.7 - SPECIAL LOADS
 - N/A
- 1603.1.8 - SYSTEM AND COMPONENTS REQUIRING SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE
 - AS SPECIFIED IN SECTION 1707.1
- ADDITIONAL CODE RECOMMENDED LIVE LOADS ARE AS FOLLOWS:
 - HANDRAILS AND GUARDRAILS: 50 PLF, 200 LB POINT LOAD
 - GRAB BARS: 250 LB POINT LOAD
 - STAIRS (CONCENTRATED LOAD): 300 LBS OVER 4 SQ INCHES
 - VEHICULAR BARRIERS: 6000 LB POINT LOAD @ HEIGHT OF 18"
- THE SUBSURFACE INFORMATION AND FOUNDATION DESIGN ARE BASED ON A REPORT PREPARED BY: ALPHA TESTING; REPORT NUMBER: A182808; DATED: JANUARY 17, 2019.
- THE FOUNDATION FOR THE STRUCTURE CONSISTS OF POST TENSION FOUNDATION AND HAS BEEN DESIGNED USING THE FOLLOWING SOIL CHARACTERISTICS AND CAPACITIES AS PROVIDED BY THE GEOTECHNICAL ENGINEER:
 - BEARING CAPACITY = 3000 PSF
 - POST TENSIONING INSTITUTE DESIGN PARAMETERS BASED ON "DESIGN OF POST-TENSIONED SLABS-ON-GROUND, THIRD EDITION, DATED 2004 WITH THE 2008 SUPPLEMENT"
EDGE MOISTURE VARIATION Em:
EDGE LIFT = 4.4 FEET
CENTER LIFT = 8.7 FEET
DIFFERENTIAL SWELL Ym:
EDGE LIFT = 1.7 INCHES
CENTER LIFT = 1.2 INCHES
- THE PT FOUNDATIONS FOR THIS PROJECT HAVE BEEN DESIGNED BASED ON THE FOLLOWING SOIL PREPARATION AS PROVIDED BY THE GEOTECHNICAL ENGINEER:
 - REFERENCE GEOTECH REPORT FOR ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS IN ORDER TO ACHIEVE 1" PVR.
- CONCRETE FOR THIS PROJECT SHALL HAVE NATURAL SAND FINE AGGREGATE AND NORMAL WEIGHT COARSE AGGREGATE CONFORMING TO ASTM C33, TYPE I PORTLAND CEMENT CONFORMING TO ASTM C150, AND A 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:
 - FOUNDATIONS: 3000 PSI
 - SLAB ON GRADE: 3000 PSI
 - DUMPSTER PAVEMENT: 4000 PSI

PERMIT OFFICIAL NOTES

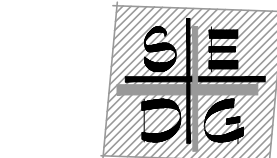
DEFERRED SUBMITTALS

THE FOLLOWING PREMANUFACTURED SYSTEMS HAVE BEEN SHOWN ON THESE DRAWINGS AND SHALL BE PREPARED BY THE MANUFACTURER AND WILL BE REVIEWED BY STERLING ENGINEERING AND DESIGN GROUP FOR COMPLIANCE WITH THE DESIGN DOCUMENTS. SUBMITTALS SHALL BE SEALED BY A REGISTERED ENGINEER. THE REVIEWED DRAWINGS WILL BE SUBMITTED AT A LATER DATE AS A DEFERRED SUBMITTAL:

- PLATED WOOD FLOOR TRUSSES
- PLATED WOOD ROOF TRUSSES
- PLATED WOOD COMPONENTS
- MECHANICAL WOOD CONNECTORS
- STEEL STAIRS, HANDRAILS, GUARDRAILS, METAL AWNINGS.



SEQ NO	DRAWING NUMBER	DRAWING LIST	DATE	ISSUE DESCRIPTION	PERMIT SET
1	S0-0	COVER SHEET	05/23/2019		
2	S0-1	GENERAL NOTES			
3	S0-2	GENERAL NOTES			
4	S0-3	SCHEDULES			
5	S0-4	SCHEDULES			
6	S0-5	SCHEDULES			
7	S0-6	SCHEDULES			
8	S0-7	INSPECTIONS			
9	S1-1	FOUNDATION PLAN - BUILDING TYPE I			
10	S1-2	OVERALL FOUNDATION PLAN - BUILDING TYPE II			
11	S1-2.1	PARTIAL FOUNDATION PLAN - BUILDING TYPE II (AREA #1)			
12	S1-2.2	PARTIAL FOUNDATION PLAN - BUILDING TYPE II (AREA #2)			
13	S1-3	FOUNDATION PLAN - BUILDING TYPE III			
14	S1-4	OVERALL FOUNDATION PLAN - BUILDING TYPE IV			
15	S1-4.1	PARTIAL FOUNDATION PLAN - BUILDING TYPE IV (AREA #1)			
16	S1-4.2	PARTIAL FOUNDATION PLAN - BUILDING TYPE IV (AREA #2)			
17	S2-1	2ND FLOOR FRAMING PLAN - BUILDING TYPE I			
18	S2-1A	3RD FLOOR FRAMING PLAN - BUILDING TYPE I			
19	S2-2	2ND FLOOR FRAMING PLAN - BUILDING TYPE II			
20	S2-2A	3RD FLOOR FRAMING PLAN - BUILDING TYPE II			
21	S2-3	2ND AND 3RD FLOOR FRAMING PLAN - BUILDING TYPE III			
22	S2-4	2ND FLOOR FRAMING PLAN - BUILDING TYPE IV			
23	S2-4A	3RD FLOOR FRAMING PLAN - BUILDING TYPE IV			
24	S3-1	1ST AND 2ND FLOOR SHEARWALL PLAN - BUILDING TYPE I			
25	S3-1A	3RD FLOOR SHEARWALL PLAN - BUILDING TYPE I			
26	S3-2	1ST AND 2ND FLOOR SHEARWALL PLAN - BUILDING TYPE II			
27	S3-2A	3RD FLOOR SHEARWALL PLAN - BUILDING TYPE II			
28	S3-3	1ST AND 2ND FLOOR SHEARWALL PLAN - BUILDING TYPE III			
29	S3-3A	3RD FLOOR SHEARWALL PLAN - BUILDING TYPE III			
30	S3-4	1ST AND 2ND FLOOR SHEARWALL PLAN - BUILDING TYPE IV			
31	S3-4A	3RD FLOOR SHEARWALL PLAN - BUILDING TYPE IV			
32	S3-4B	3RD FLOOR SHEARWALL PLAN - BUILDING TYPE IV			
33	S4-1	ROOF FRAMING PLAN - BUILDING TYPE I			
34	S4-2	ROOF FRAMING PLAN - BUILDING TYPE II			
35	S4-3	ROOF FRAMING PLAN - BUILDING TYPE III			
36	S4-4	ROOF FRAMING PLAN - BUILDING TYPE IV			
37	S5-1	FOUNDATION PLAN - CLUBHOUSE			
38	S5-2	SHEARWALL PLAN - CLUBHOUSE			
39	S5-3	ROOF FRAMING PLAN - CLUBHOUSE			
40	SD1-1	FOUNDATION SECTIONS AND DETAILS			
41	SD1-2	FOUNDATION SECTIONS AND DETAILS			
42	SD2-1	FRAMING SECTIONS AND DETAILS			
43	SD2-2	FRAMING SECTIONS AND DETAILS			
44	SD3-1	SHEARWALL SECTIONS AND DETAILS			
45	SD4-1	ROOF FRAMING SECTIONS AND DETAILS			



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

COVER SHEET

Sheet Title

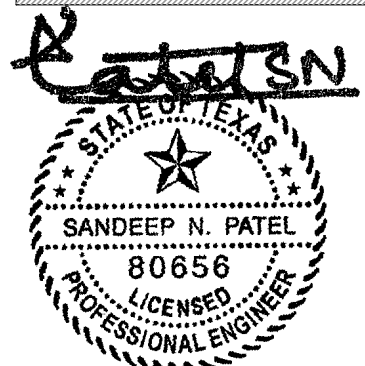
Date

Description

Rev.

Drawn By: HT
Checked By: DH/ZA
Drawing Scale: As Noted
Project No. 136-089

ISSUED FOR: DATE: 05/23/2019
☐ SD 30%
☐ Coordination
☐ CD 95%
☐ CD 100%
☐ Pricing
☐ Bidding
☒ Permit
☐ Construction



05/23/2019
Texas Registered Engineering Firm

F-19122
THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH 100% USE AND SHOULD NOT BE REPRODUCED OR DISCLOSED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE INFORMATION HEREIN IS PART OF A DESIGN PROCESS. UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREIN IS STRICTLY PROHIBITED.

SHEET NO.
COVER
COVER SHEET

LENGTH OF SHEARWALL / NO. OF SHEAR PANELS													
WALL TYPE	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	
[2 -]	1	2	2	2	2	2	3	3	3	3	3	4	
[2 1]	2	2	2	3	3	3	4	4	4	4	5	5	
[2 3]	2	3	3	4	4	5	5	5	6	6	7	7	
[3 -]	2	2	2	2	2	2	2	3	3	3	3	3	
[3 1]	2	2	3	3	3	4	4	5	5	5	6	6	
[3 3]	2	2	3	3	4	4	5	5	5	5	6	6	
[5 -]	2	3	3	4	4	5	5	6	6	7	7	8	
[5 1]	3	3	4	5	6	6	7	8	9	9	10	11	
[5 3]	3	4	5	6	7	7	8	9	10	11	12	13	
[5 5]	5	6	7	8	10	11	12	13	15	16	17	19	
[6 -]	4	5	5	6	7	8	9	9	10	11	12	13	
[6 1]	5	6	7	8	9	10	12	13	14	15	16	17	

- NOTES:
- SHEAR PANELS ARE PREFABRICATED COMPONENTS INSTALLED IN THE FLOOR CAVITY WHEN FRAMING IS PERPENDICULAR TO SHEARWALL.
 - SHEAR PANELS TRANSMIT THE DIAPHRAGM SHEARS FROM THE DIAPHRAGM ABOVE TO THE WALL BELOW.
 - SCHEDULE SHALL BE USED WHEN PANEL QUANTITIES ARE NOT SHOWN ON BRACING PLANS.
 - PANELS SHALL BE DESIGNED FOR A LATERAL FORCE OF 1200 LBS.

1 SHEAR PANEL SCHEDULE

BEAM SIZE (INCHES x INCHES)	TRIBUTARY FLOOR AREA			NOTES
	<50FT ²	<100FT ²	<150FT ²	
(2) - 2x10	HGUS210-2	N/A	N/A	1 & 2
(2) - 2x12	HGUS212-2	N/A	N/A	1 & 2
(3) - 2x10	HGUS210-3	N/A	N/A	1 & 2
(3) - 2x13	HGUS212-3	N/A	N/A	1 & 2
3 1/2 x 9 1/4 PSL	HGUS48	HGUS48	N/A	1 & 2
3 1/2 x 11 1/4 PSL	HGUS48	HGUS48	N/A	1 & 2
3 1/2 x 14 PSL	HGUS410	HGUS410	HGUS412	1 & 2
5 1/4 x 14 PSL	N/A	HGUS5.5/10	HGUS5.5/12	1 & 2
5 1/4 x 16 PSL	N/A	HGUS5.5/10	HGUS5.5/14	1 & 2
5 1/4 x 18 PSL	N/A	HGUS5.5/12	HGUS5.5/14	1 & 2

- NOTES:
- HANGERS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE.
 - ALTERNATES TO THE SIZES SHOWN ABOVE MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL ALONG WITH PERTINENT TECHNICAL DATA.
 - TRUSS TO BEAM HANGERS SHALL BE DESIGNED BY A TRUSS DESIGN ENGINEER.

5 BEAM TO BEAM CONNECTOR SCHEDULE

EPOXY-EMBEDDED HOLD DOWN ANCHOR BOLT SCHEDULE					
MARK	SIMPSON HOLD DOWN	ANCHOR BOLT DIAMETER	EMBEDMENT DEPTH	SIMPSON THREADED ROD ANCHOR	END MEMBER
HLD-1	LIT19	5/8"	2 1/2"	A307 (SAE 1018)	4x4 OR DBL 2x
HLD-2	HTT4	5/8"	3 3/4"	A307 (SAE 1018)	4x4 OR DBL 2x
HLD-3	HTT5	5/8"	5"	A307 (SAE 1018)	4x4 OR DBL 2x
HLD-4	HD7B	7/8"	6"	A307 (SAE 1018)	4x4 OR DBL 2x
HLD-5	HD9B	7/8"	6"	A307 (SAE 1018)	4x6 OR TPL 2x
HLD-6	HD9B	7/8"	7 3/4"	A307 (SAE 1018)	4x6 OR TPL 2x
HLD-7	HD12	1"	9"	A307 (SAE 1018)	4x6 OR TPL 2x
HLD-8	HD12	1"	12"	A307 (SAE 1018)	4x6

- NOTES:
- ALL THREADED ROD ANCHORS GIVEN IN THIS TABLE SHALL BE INSTALLED WITH SIMPSON SET-XP EPOXY OR APPROVED EQUAL.
 - THE LOAD VALUES OF THESE ANCHOR BOLTS AND HOLD DOWNS HAVE BEEN INCREASED BY 33% FOR WIND LOADS, IN COMPLIANCE WITH THE CODE REQUIREMENTS.
 - FOR INSTALLATION PROCEDURE OF THREADED ROD ANCHORS, SEE ANCHORING SYSTEMS IN SIMPSON CATALOGUE.
 - ALL HARDWARE IN CONTACT WITH ACO TREATED LUMBER CLASS G185 MUST BE SIMPSON ZMAX PRODUCTS THAT MEET ASTM A653.

10 SHEARWALL HOLD DOWN SCHEDULE

THREE STORY BUILDING						
LEVEL	LOAD BEARING WALLS (SYP #2 GRADE)					
	PLATE HT.	EXTERIOR	INTERIOR	PARTY	CORRIDOR (TYP.)	
3rd FLOOR	9'-1 1/8"	2x4@16"O.C.*	2x6@16"O.C.*	2x4@16"O.C./2x6@16"O.C.	2x4@16"O.C./2x6@16"O.C.	2x4@16"O.C./2x6@16"O.C.
2nd FLOOR	9'-1 1/8"	(2)2x4@16"O.C.*	2x6@16"O.C.*	2x4@12"O.C./2x6@16"O.C.	2x4@16"O.C./2x6@16"O.C.	(2)2x4@16"O.C./2x6@16"O.C.
1st FLOOR	9'-1 1/8"	(2)2x4@16"O.C.*	2x6@16"O.C.*	(2)2x4@16"O.C./2x6@16"O.C.	(2)2x4@16"O.C./2x6@16"O.C.	(2)2x4@12"O.C./2x6@16"O.C.

- * (2) 2x4 @ 16" O.C. AT EXTREME CORNERS OF STRUCTURE FOR A DISTANCE OF 10 FT. FROM CORNER EACH WAY.
NON LOAD-BEARING WALLS ARE TO BE 2x4 @ 16" O.C. TO MEET UL REQUIREMENTS.

- NOTES:
- STUDS USED IN SHEARWALL FRAMING SHALL BE AS SHOWN IN THE ABOVE SCHEDULE FOR BEARINGS WALLS WITH HEIGHTS LESS THAN OR EQUAL TO PLATE HEIGHT SHOWN ON PLANS.
 - REFER TO "CONVENTIONAL 2X WOOD FRAMING" SECTION OF GENERAL NOTES SHEET FOR THE USE OF FINGER JOINTED STUDS.
 - REFER TO "CONVENTIONAL 2X WOOD FRAMING NOTES" SECTIONS OF GENERAL NOTES FOR MATERIAL SPECIFICATION AND LUMBER GRADE.
 - STUD SPACING SHOWN ARE ON CENTER DIMENSIONS AND ARE BASED ON A MAXIMUM STUD HEIGHT OF 8'-8 5/8" UNLESS OTHERWISE NOTED.

14 WALL STUD SCHEDULE

DESIGN CRITERIA					
TRUSSES	FLOOR	PRIVATE BALCONY	PUBLIC AREA	ROOF	
TCOL	40	40	100	20	
TCOL	20	25	25	15	
BCOL	0	0	0	0	
BCOL	5	5	5	5	
TOTAL	65PSF	70PSF	130PSF	40PSF	
U.S.I.	0	0	0	25%	
SPACING	24" MAX.	24" MAX.	24" MAX.	24" MAX.	
DEPTH/PITCH	18"	RE: ARCH	RE: ARCH	RE: ARCH	

- NOTES:
- TC = TOP CHORD, BC = BOTTOM CHORD, LL = LIVE LOAD, DL = DEAD LOAD.
 - ROOF LIVE LOADS MAY BE REDUCED ACCORDING TO APPLICABLE CODE REQUIREMENTS FOR RISE AND TRIBUTARY CONSIDERATIONS.
 - LOADS MARKED THUS (*) INCLUDE DISTRIBUTED WEIGHT OF SPRINKLER SYSTEM AT 2 PSF.
 - DEAD LOADS DO NOT INCLUDE SELF WEIGHT.
 - TRUSS MANUFACTURER SHALL BE RESPONSIBLE WITH COORDINATING THE EQUIPMENT LOAD, PENETRATION, DUCTS AND CLEARANCES REQUIREMENTS OF ALL OTHER SYSTEMS INCLUDING MEP PRESENT IN THE FLOOR AND ROOF CAVITY.

2 TRUSS LOADING SCHEDULE

SPECIFIED ANCHOR	ALTERNATE ANCHOR	APPLICATION	NOTES
1/2" DIA.	MASA	EXTERIOR	4
LSTDHB	HD3B, HDU2	EXTERIOR	1, 2, & 3
MPAHD	STDH10, HD3B	EXTERIOR	1, 2, & 3
STDH10	STDH14, HD5B	EXTERIOR	1, 2, & 3
HD3B	HDU2, DT12Z	INTERIOR	1, 2, & 3
HD5B	HDUS, HTT4	INTERIOR	1, 2, & 3
HDU5	HD5B, HTT5	INTERIOR	1, 2, & 3
HD7B	HDU8	INTERIOR	1, 2, & 3
LTT20B	HD5B	INTERIOR	1, 2, & 3
HTT4	STDH10	EXTERIOR	1, 2, & 3
HTT5	STDH14, (2)STDH10	EXTERIOR	1, 2, & 3

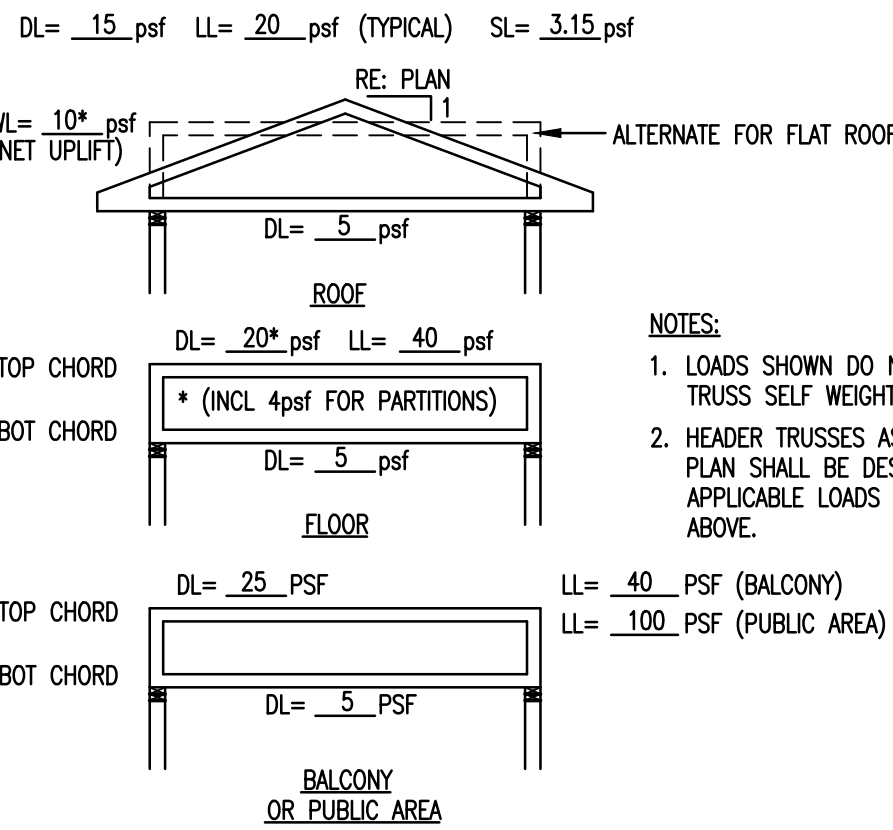
- NOTES:
- INSTALL HOLDOWN 10" MINIMUM FROM EDGE OF CONCRETE SLAB.
 - HOLDOWNS SHALL BE INSTALLED ACCORDING TO RECOMMENDATIONS BY SIMPSON STRON-TIE.
 - ALTERNATES SHOWN ABOVE ARE ACCEPTABLE SUBSTITUTES FOR SIZES SHOWN ON FIRST FLOOR BRACING PLANS.
 - REFER TO DETAIL 9/50-2.

6 ALTERNATE HOLD DOWN SCHEDULE

SHEARWALL SCHEDULE											
WALL TYPE	WALL MATERIAL			EDGE NAILING		SILL BOLTS		SOLE PLATE NAILING		REMARKS	SILL P.A.F. HILTI X-CP72 PB S23
MARK	TYPE	THICKNESS	SIDES	SPA	SIZE	SPA	SIZE	SPA	SIZE		SPA SIZE
[1]	GYPSEATH	5/8" MIN.	1	4"	64 COOLER	48"	1/2"	16"	16d	1, 2, 5, 7	75 PLF 40" 0.145"
[2]	GYPSEATH	5/8"	1	4"	64 COOLER	48"	1/2"	16"	16d	1, 2, 6, 7	125 PLF 24" 0.145"
[3]	GYPSEUM BOARD	5/8"	1	4"	64 COOLER	42"	1/2"	12"	16d	1, 2, 6, 7	145 PLF 20" 0.145"
[X]	GYPSEUM BOARD	5/8" TWO PLY	1	4"	64 COOLER	32"	1/2"	12"	16d	1, 2, 6, 7, 10	250 PLF 12" 0.145"
[4]	GYPSEUM BOARD	5/8"	1	4"	64 COOLER	36"	1/2"	10"	16d	1, 6, 7, 8, 9, 10	175 PLF 16" 0.145"
[5]	PLYWOOD/OSB	15/32"	1	4"	8d COMMON	32"	1/2"	6"	16d	1, 7, 10	380 PLF 7" 0.145"
[6]	PLYWOOD/OSB	15/32"	1	3"	10d COMMON	24"	1/2"	4"	16d	1, 7, 10	490 PLF 6" 0.145"

- NOTES:
- NAIL SPACING INDICATED IS FOR EDGE NAILING OF THE SPECIFIED WALL MATERIAL TYPICAL INTERMEDIATE STUDS (FIELD NAILING) AND BLOCKING, IF PRESENT, SHALL BE NAILED AT 4" O.C. @ GYPSEATH AND GYPSEUM BOARD, 6" O.C. @ PLYWOOD / O.S.B. SHEARWALLS.
 - WALL TYPES ARE UNBLOCKED CONSTRUCTION.
 - 11 GAGE NAILS SHALL BE 1 3/4" LONG, 7/16" DIA. DIAMOND POINT AND GALVANIZED.
 - SHEARWALL LENGTHS NOTED ON PLANS HAVE BEEN ADJUSTED TO PROVIDE CLEARANCES FOR LOCATING AND INSTALLING HOLDOWNS WHEN REQUIRED. CONTRACTOR SHALL CONSTRUCT SHEARWALL LENGTHS TO ACTUAL WALL DIMENSIONS SHOWN ON ARCHITECTURAL DRAWINGS.
 - SHEET SIZE MAY BE 2' x 8'.
 - SINKER NAILS MAY BE SUBSTITUTED PROVIDED THE SHEAR CAPACITY MATCHES COOLER NAILS.
 - ALL SHEARWALLS SHALL BE FRAMED WITH WIND POST AT EACH END. WIND POST CAN BE A 4x4 OR (2)-2x4 NAILED W/ 16d @ 12" O.C. EACH FACE.
 - WALL TYPE IS BLOCKED CONSTRUCTION.
 - SHEET SIZE TO BE 4'x8'.
 - VALUES FOR P.A.F. ARE FOR MINIMUM 2 3/4" EDGE DISTANCE (I.E. MIDDLE OF CONCRETE).

11 SHEARWALL SCHEDULE



3 BUILDING LOADS DIAGRAM

MAXIMUM SPAN LENGTH (FT)	LINTEL SIZE
0 to 4'-0"	L 3 1/2 x 3 1/2 x 5/16
4'-0" to 6'-0"	L 5 x 3 1/2 x 5/16 LLV
6'-0" to 8'-0"	L 5 x 3 1/2 x 3/8 LLV
8'-0" to 10'-0"	L 6 x 4 x 3/8 LLV
10'-0" to 12'-0"	L 7 x 4 x 3/8 LLV
> 12'-0"	COORDINATE W/ENGINEER

- NOTES:
- LINTEL ANGLE SHALL BEAR A MINIMUM OF 8" AT SUPPORTS.
 - LINTEL SHALL NOT BE SHORED DURING CONSTRUCTION.
 - LLV = LONG LEG VERTICAL.

7 LOOSE LINTEL SCHEDULE

CONTINUOUS LOAD PATH SCHEDULE									
① ROOF TO TOP PLATE		WIND SPEED 3 SEC GUST	② 2A TOP PLT. TO STUD		④ FLOOR TO FLOOR		③ STUD TO BOT. PLT.		
MODEL NO.	UPLIFT (LBS)	NOTES	M.P.H.	TYPE	SPACING	TYPE	SPACING	TYPE	SPACING
H2.5A	<415	1, 3, & 5	110 OR LESS	H2.5A	48" O.C.	CS16x36	48" O.C.	H2.5A	48" O.C.
(2) - H2.5A	415-830	3 & 5							
H2.5A	<600	3 & 6	115	H2.5A	24" O.C.	CS16x36	48" O.C.	H2.5A	24" O.C.
(2) - H2.5A	600-1200	3 & 6							
H6	<915	2, 3, & 7	120	H2.5A	24" O.C.	CS16x36	48" O.C.	H2.5A	24" O.C.
(2) - H6	915-1830	3 & 7							

ALL CONNECTIONS ARE SIMPSON STRONG-TIE CONNECTIONS.

NOTES:

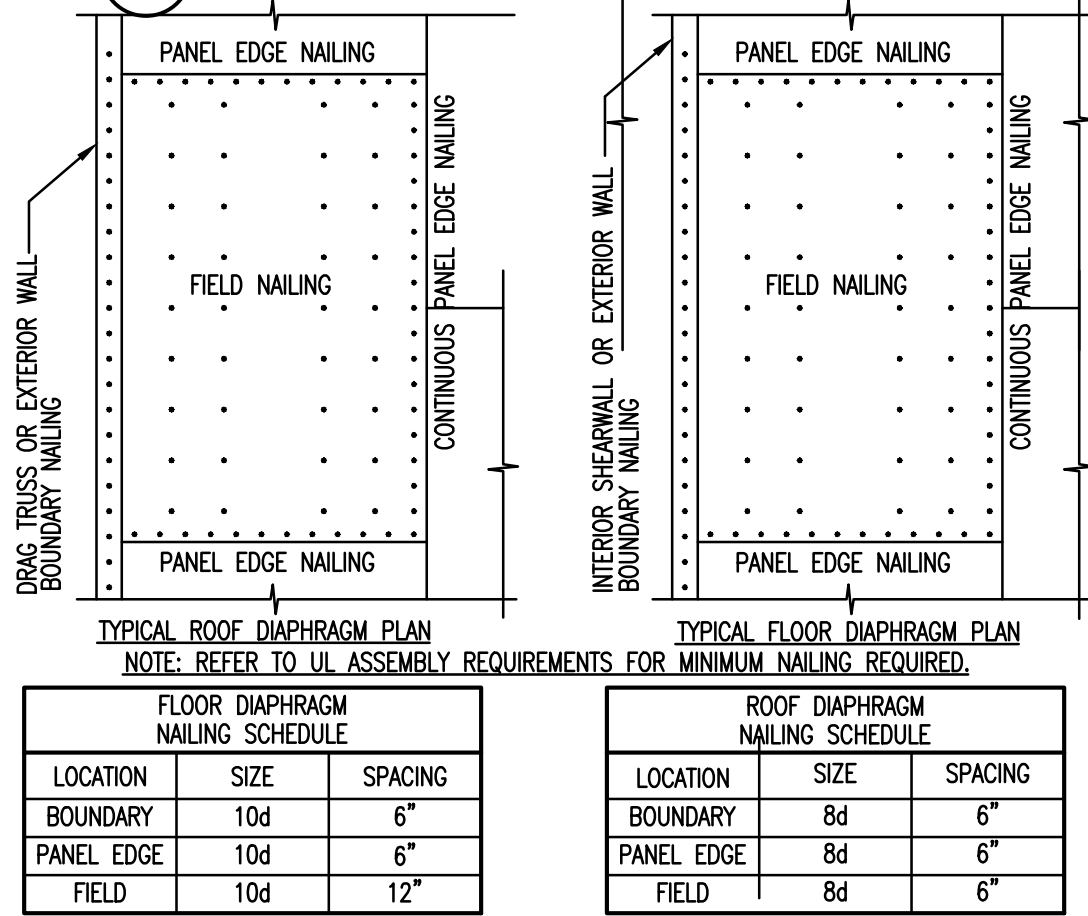
- EVERY OTHER TYPICAL ROOF TRUSS SHALL HAVE (1) - H2.5 CONNECTOR AT EACH END UNLESS TRUSS MANUFACTURER'S BEARING REACTIONS AS NOTED ON SHOP DRAWINGS ARE HIGHER THAN SPECIFIED UPLIFT.
- TYPICAL ROOF GIRDER TRUSSES SHALL HAVE (2) - H6 CONNECTOR AT EACH END UNLESS TRUSS MANUFACTURER'S REACTIONS AS NOTED ON SHOP DRAWINGS ARE HIGHER THAN SPECIFIED UPLIFT.
- SCHEDULED UPLIFT VALUES INCLUDE THE CAPACITY OF (2) - 16d ERECTION NAILS INSTALLED BY TOENAILING TRUSS BOTTOM CHORD TO BEARING PLATE.
- UPLIFT VALUES ARE IN ACCORDANCE WITH LOAD DURATION FACTORS SET FORTH BY NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, CURRENT EDITION.
- USE (5) - 8d NAILS TO TRUSS CHORDS AND TO PLATES FOR EACH CONNECTOR SCHEDULED.
- USE (4) - 8d NAILS TO TRUSS CHORDS AND TO PLATES FOR EACH CONNECTOR SCHEDULED.
- USE (4) - 8d NAILS TO TRUSS CHORDS, (2) - 8d TO PLATES, AND (8) - 8d TO STUDS FOR EACH CONNECTOR SCHEDULED.

4 CONTINUOUS LOAD PATH

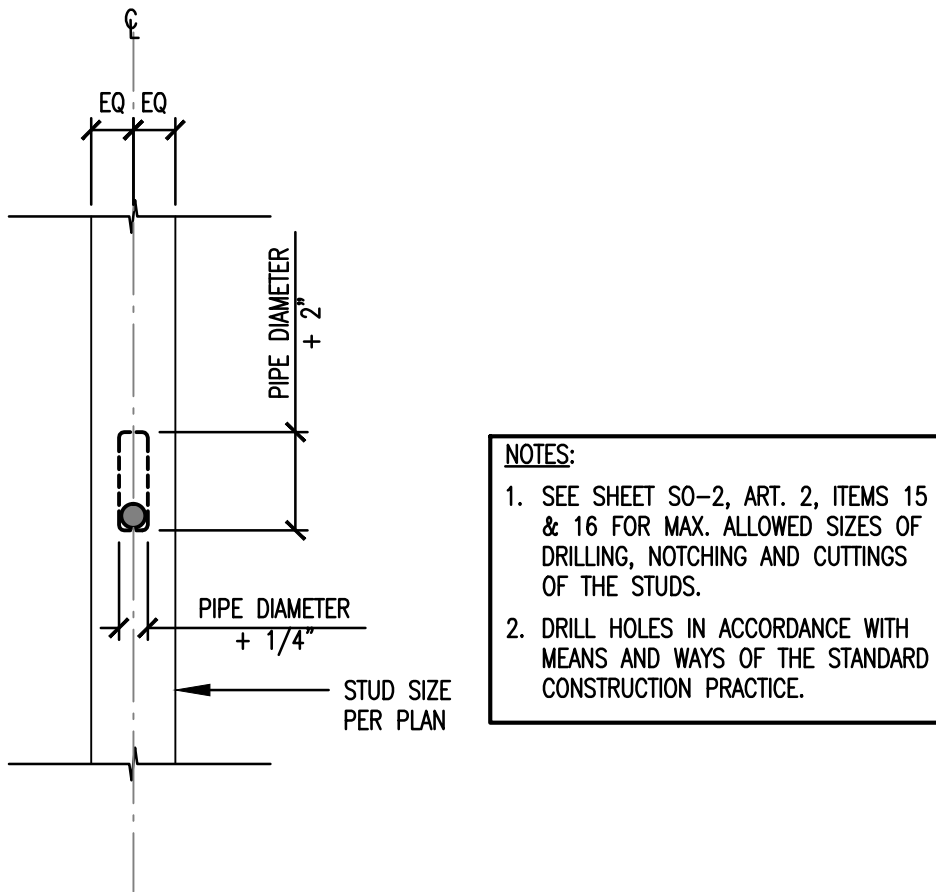
LUMBER		
POST SIZE LOCATION	SIMPSON EMBEDDED POST BASE	SIMPSON BOLTED POST BASE
4x4	CB44	ABU44
6x6	CB66	ABU66
8x8	CB88	ABU88

1.8E PARALLAM PSL		
COLUMN PRODUCT	COLUMN SIZE	CONNECTOR
1.8E PARALLAM PSL	3 1/2"x3 1/2"	LCB44
	3 1/2"x 5 1/4"	CB44
	3 1/2"x 7"	CB7 1/8-4
	5 1/4"x 5 1/4"	CB66
	5 1/4"x 7"	CB6-7
	7"x 7"	CB7 1/8-7

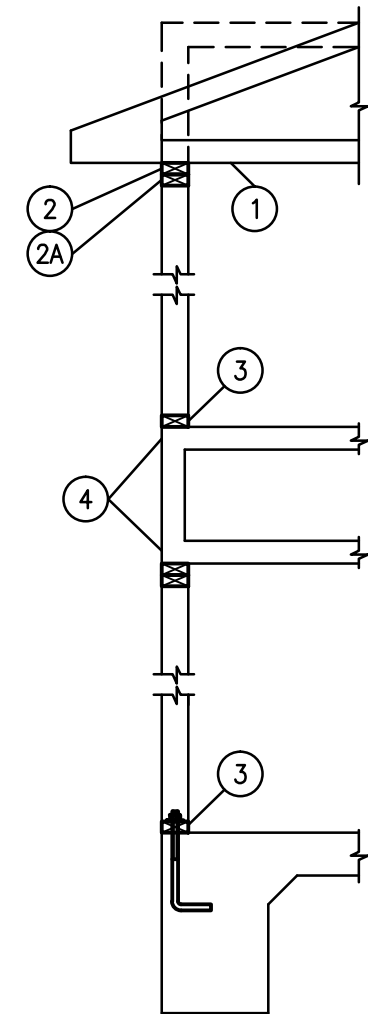
8 POST BASE SCHEDULE



12 DIAPHRAGM NAILING DIAGRAM



RECOMMENDATION FOR PLUMBING HOLE IN WOOD STUDS

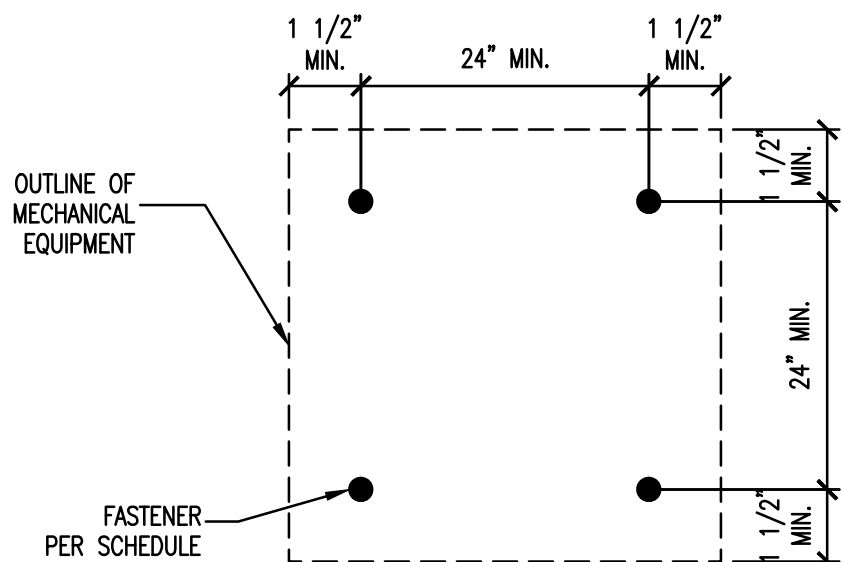


ATTACHMENT ANCHOR TYPE	EMBEDMENT	LOCATION AND SPACING			NOTES
		EXTERIOR WALLS	INTERIOR WALLS	NON-LOAD BEARING WALLS	
1/2" DIA. ANCHOR BOLTS	7"	48" O.C.	72" O.C.	N/A	2, 3 & 4
1/2" DIA. EXPANSION ANCHORS	2 1/4"	N/A	72" O.C.	N/A	1 & 3
0.117" DIA. POWDER ACTUATED FASTENERS	1 1/2"	12"	24" O.C.	48" O.C.	3 & 5
0.099" DIA. POWDER ACTUATED FASTENERS	1"	N/A	12" O.C.	12" O.C.	3

NOTES:

- EXPANSION ANCHORS SHALL NOT BE ALLOWED WITHIN 10 INCHES OF SLAB EDGE.
- REFER TO SHEARWALL SCHEDULE FOR ANCHORAGE REQUIREMENTS.
- RE: PLAN FOR ADDITIONAL NOTES.
- ALL HARDWARE IN CONTACT WITH ACO TREATED LUMBER CLASS G185 MUST BE SIMPSON ZMAX PRODUCTS THAT MEET ASTM A653.
- MIN. EDGE DISTANCE FOR P.A.F. AT EXT. BEARING WALLS SHALL BE 2 3/4".

9 BEARING WALL ANCHOR SCHEDULE



WIND SPEED (MPH)	90	100	110	120	130
FASTENER EMBEDMENT DEPTH	1"	1"	1"	1 1/2"	1 1/2"

NOTES:

- APPLIES TO GROUND LOCATED MECHANICAL EQUIPMENT MAXIMUM DIMENSIONS OF 3'x3'x3'.
- FASTENER SHALL BE SIMPSON TITEN HD 3/8" STAINLESS STEEL CONCRETE ANCHOR.
- MINIMUM CONCRETE PAD THICKNESS IS 3" AND MINIMUM 2000 PSI CONCRETE.

13 MECHANICAL EQUIPMENT FASTENING SCHEDULE

SCALE: 3/4"=1'-0"

C:\\$136 - KELLY GROSSMAN\136-089 Norwood Apartments\Structural Drawings\Working Drawings\50-4.dwg Plotted: May 23, 2019 - 9:30 AM by Hao Tran

Eff. Window and Door Area (SF)	3 Second Gust Wind Speed V (MPH) EXPOSURE B up to 35 ft. Mean Roof Height	
	V _{ult} = 120 mph; V _{wind} = 93mph(Design)	
≤ 10	21.2	~23.0
11 to 20	20.3	~22.1
21 to 50	19.1	~20.9
51 to 100	18.0	~19.8
101 to 500	15.8	~17.6
NOTE: These values are for EXPOSURE B zone 4 (walls) and zone 1 (roof) conditions and structure mean roof height ≤35 feet. * Doors and Windows products to be used should be evaluated and specified by Texas Department of Insurance.		
ROOF >10 DEGREES	3 Second Gust Wind Speed V (MPH) EXPOSURE B up to 35 ft. Mean Roof Height	
	V _{ult} = 120 mph; V _{wind} = 93mph(Design)	
≤ 10	7.6	~18.8
11 to 20	7.2	~18.3
21 to 50	6.5	~17.6
51 to 100	6.0	~17.2

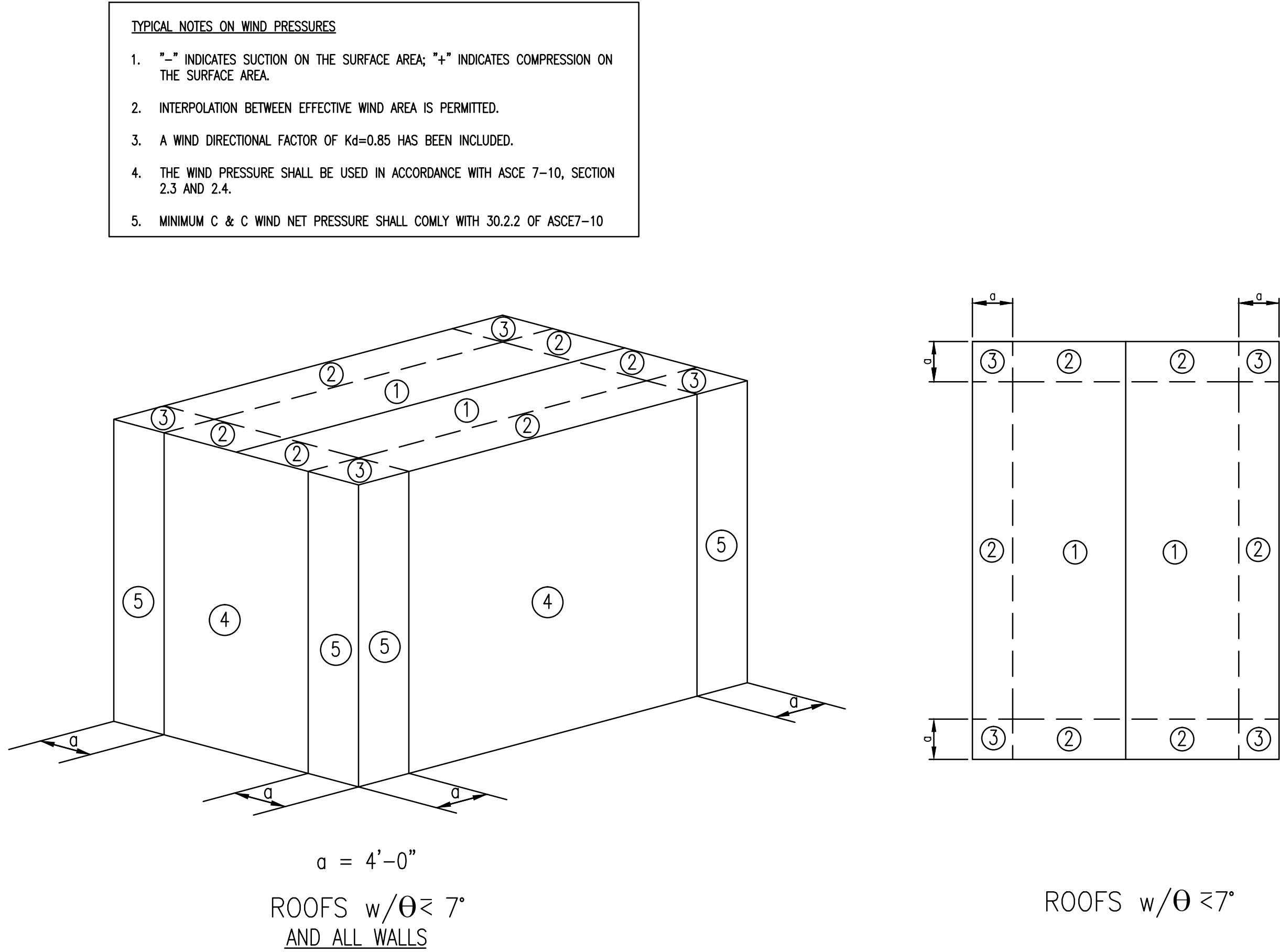
** RE : 2/SO-4 FOR NOTES AND ZONE DETAILS

ZONE 4 (WALLS) AND ZONE 1 (ROOF)

Eff. Window and Door Area (SF)	3 Second Gust Wind Speed V (MPH) EXPOSURE B up to 35 ft. Mean Roof Height	
	V _{ult} = 120 mph; V _{wind} = 93mph(Design)	
≤ 10	21.2	~28.4
11 to 20	20.3	~26.5
21 to 50	19.1	~23.9
51 to 100	18.0	~22.1
101 to 500	15.8	~17.6
NOTE: These values are for EXPOSURE B zone 5 (walls) and zone 2 & 3 (roof) conditions and structure mean roof height ≤35 feet. * Doors and Windows products to be used should be evaluated and specified by Texas Department of Insurance.		
ROOF >10 DEGREES	3 Second Gust Wind Speed V (MPH) EXPOSURE B up to 35 ft. Mean Roof Height	
	V _{ult} = 120 mph; V _{wind} = 93mph(Design)	
≤ 10	7.6	~47.4
11 to 20	7.2	~39.3
21 to 50	6.5	~28.5
51 to 100	6.0	~20.4

** RE : 2/SO-4 FOR NOTES AND ZONE DETAILS

ZONE 5 (WALLS) AND ZONE 2 & 3 (ROOF)



1 EXPOSURE B 35FT MEAN ROOF HEIGHT SCHEDULE

STUCCO LATH FASTENING SCHEDULE		
WIND SPEED M.R.H.	V _{ult} = 120 mph; V _{wind} = 93mph(Design)	NOTES
20'	16" O.C. VERT.	1, 2, 3, 4
	16" O.C. HORIZ.	
30'	14" O.C. VERT.	1, 2, 3, 4
	16" O.C. HORIZ.	
40'	14" O.C. VERT.	1, 2, 3, 4
	16" O.C. HORIZ.	
50'	14" O.C. VERT.	1, 2, 3, 4
	16" O.C. HORIZ.	
60'	12" O.C. VERT.	1, 2, 3, 4
	16" O.C. HORIZ.	
NOTES: 1. METAL CONNECTORS AND FASTENERS SHALL BE EITHER STAINLESS STEEL AND MEET ASTM A167; HOT-DIP GALVANIZED AFTER FABRICATION AND MEET ASTM A123 OR ASTM A153; OR HOT-DIP GALVANIZED OR GALVANNEALED PRIOR TO FABRICATION AND MEET ASTM A653. 2. METAL CONNECTORS AND FASTENERS LOCATED IN INLAND I AND INLAND II TDI REGIONS SHALL BE EITHER STAINLESS STEEL AND MEET ASTM A167; HOT-DIP GALVANIZED AFTER FABRICATION AND MEET ASTM A123 OR ASTM A153; HOT-DIP GALVANIZED OR GALVANNEALED PRIOR TO FABRICATION AND MEET ASTM A653; HOT-DIP GALVANIZED OR ELECTROGALVANIZED IN ACCORDANCE WITH ASTM A641; MECHANICALLY DEPOSITED ZINC COATINGS IN ACCORDANCE WITH ASTM B695; OR ELECTRODEPOSITED ZINC COATINGS IN ACCORDANCE WITH ASTM B633. 3. FASTENER SHALL BE 16 GA. STAPLE 15/16" CROWN x 1 1/2". 4. SPACING SHOWN IS FOR STRUCTURAL REQUIREMENTS ONLY. ACTUAL SPACING MAY BE GOVERNED BY LOCAL BUILDING CODE.		

3 STUCCO FASTENING SCHEDULE

2 WIND PRESSURE ZONES AND NOTES

BRICK/STONE VENEER FASTENING SCHEDULE		
WIND SPEED M.R.H.	V _{ult} = 120 mph; V _{wind} = 93mph(Design)	NOTES
20'	16" O.C. VERT.	1, 2, 3, 4
	32" O.C. HORIZ.	
30'	16" O.C. VERT.	1, 2, 3, 4
	32" O.C. HORIZ.	
40'	12" O.C. VERT.	1, 2, 3, 4
	32" O.C. HORIZ.	
50'	12" O.C. VERT.	1, 2, 3, 4
	32" O.C. HORIZ.	
60'	12" O.C. VERT.	1, 2, 3, 4
	32" O.C. HORIZ.	
<u>NOTES:</u> 1. METAL CONNECTORS AND FASTENERS SHALL BE EITHER STAINLESS STEEL AND MEET ASTM A167; HOT-DIP GALVANIZED AFTER FABRICATION AND MEET ASTM A123 OR ASTM A153; OR HOT-DIP GALVANIZED OR GALVANNEALED PRIOR TO FABRICATION AND MEET ASTM A653. 2. METAL CONNECTORS AND FASTENERS LOCATED IN INLAND I AND INLAND II TDI REGIONS SHALL BE EITHER STAINLESS STEEL AND MEET ASTM A167; HOT-DIP GALVANIZED AFTER FABRICATION AND MEET ASTM A123 OR ASTM A153; HOT-DIP GALVANIZED OR GALVANNEALED PRIOR TO FABRICATION AND MEET ASTM A653; HOT-DIP GALVANIZED OR ELECTROGALVANIZED IN ACCORDANCE WITH ASTM A641; MECHANICALLY DEPOSITED ZINC COATINGS IN ACCORDANCE WITH ASTM B695; OR ELECTRODEPOSITED ZINC COATINGS IN ACCORDANCE WITH ASTM B633. 3. FASTENER SHALL BE 8d (0.131" x 2 1/2") COMMON NAIL. 4. SPACING SHOWN IS FOR STRUCTURAL REQUIREMENTS ONLY. ACTUAL SPACING MAY BE GOVERNED BY LOCAL BUILDING CODE.		

4 BRICK/STONE VENEER FASTENING SCHEDULE

STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

SCHEDULES

Sheet Title:

Date

Description

Rev.

Drawn By: HT
Checked By: DMH/ZA
Drawing Scale: As Noted
Project No. 136-089

ISSUED FOR: DATE:
☐ SD 30%
☐ Coordination
☐ CD 95%
☐ CD 100%
☐ Pricing
☐ Bidding
☒ Permit
☐ Construction

05/23/2019

SANDEEP N. PATEL
80656
PROFESSIONAL ENGINEER
05/23/2019
Texas Registered Engineering Firm
F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH ©2019 LLC, AND SHOULD NOT BE REPRODUCED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A DESIGN PROCESSING PROCESS/NATURAL.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY PROHIBITED.

SHEET NO.
S0-4
SCHEDULES

TENDON ELONGATION SCHEDULE					
LENGTH (FEET)	ELONGATION (INCHES)	LENGTH (FEET)	ELONGATION (INCHES)	LENGTH (FEET)	ELONGATION (INCHES)
10	0.8	64	5.1	118	9.3
12	0.9	66	5.2	120	9.5
14	1.1	68	5.4	122	9.6
16	1.3	70	5.5	124	9.8
18	1.4	72	5.7	126	10.0
20	1.6	74	5.8	128	10.1
22	1.7	76	6.0	130	10.3
24	1.9	78	6.2	132	10.4
26	2.1	80	6.3	134	10.6
28	2.2	82	6.5	136	10.7
30	2.4	84	6.6	138	10.9
32	2.5	86	6.8	140	11.1
34	2.7	88	7.0	142	11.2
36	2.8	90	7.1	144	11.4
38	3.0	92	7.3	146	11.5
40	3.2	94	7.4	148	11.7
42	3.3	96	7.6	150	11.9
44	3.5	98	7.7	152	12.0
46	3.6	100	7.9	154	12.2
48	3.8	102	8.1	156	12.3
50	4.0	104	8.2	158	12.5
52	4.1	106	8.4	160	12.6
54	4.3	108	8.5	162	12.8
56	4.4	110	8.7	164	13.0
58	4.6	112	8.8	166	13.1
60	4.7	114	9.0	168	13.3
62	4.9	116	9.2	170	13.4

NOTE:
1. THE TESTING LAB SHALL OBTAIN TENDON SHOP DRAWINGS FROM THE SUPPLIER TO DETERMINE THE INDIVIDUAL ELONGATIONS OF THE CABLES.

PLAN LEGEND

1. BEAM WIDTHS / DEPTHS SHALL BE AS SHOWN IN GRADE BEAM SCHEDULE, U.N.O.

2. PROVIDE 4-#3 x 3'-0" AT OPENINGS LARGER THAN 10".

3.

TENDON NUMBER

SLAB OR BEAM TENDON DESIGNATION

TENDON LIVE END

SLAB EDGE AND FACE OF GRADE BEAM

4. SYMBOLS:

SLAB TENDON DEAD END

SLAB TENDON LIVE END

BEAM TENDON DEAD END

BEAM TENDON LIVE END

SHEARWALL

DIAGONAL REBAR
2-#4x6'-0" UNLESS NOTED OTHERWISE.

FLOOR FRAMING NOTES

1. TRUSS SPACING SHALL BE 24" ON CENTER UNLESS NOTED OTHERWISE.

2. EXTERIOR BEARING WALLS AND / OR SHEARWALLS LOCATED PARALLEL TO FLOOR TRUSS FRAMING SHALL HAVE CONTINUOUS BEARING MEMBERS ABOVE PLATE LINE TO SUPPORT WALLS ABOVE.

3. ARCHITECTURAL BACKGROUND SHOWN IS LAYOUT OF FLOOR BELOW. SHOWN THUS:

4. SHEARWALLS AS NOTED ON PLAN SHALL BE CONSTRUCTED FROM FRAMING LEVEL BELOW TO FRAMING LEVEL SHOWN.

5. HOLDINGS AND / OR STRAPS SHOWN SHALL BE MANUFACTURED BY SIMPSON STRONG TIE OR APPROVED EQUAL.

6. BEARING WALLS ARE INDICATED THUS:

7. VERIFY ALL FLOOR TOP OF PLATE ELEVATIONS WITH ARCHITECTURAL PLANS AND WALL SECTIONS.

8. NON LOAD-BEARING PARTITIONS 10'-0" OR LONGER IN LENGTH SHALL HAVE CONTINUOUS BEARING MEMBERS SUPPORT FROM WALLS OR FLOOR TRUSSES BELOW.

9. THE TRUSS LAYOUT SHOWN ON THIS DRAWING REPRESENTS DIRECTION OF TRUSS SPANS ONLY. THIS DRAWING SHALL NOT BE USED FOR PLACEMENT OF TRUSSES. REFER TO APPROVED TRUSS MANUFACTURER'S DRAWINGS FOR PLACEMENT, DIMENSIONS, BRACING AND CONNECTIONS.

10. QUANTITIES SHOWN ARE FOR INFORMATIONAL PURPOSES AND SHOULD BE CONFIRMED WITH THE ARCHITECTURAL DRAWINGS.

11. REFER TO GENERAL NOTES AND DIAGRAM FOR NAILING, STUD, HEADER, SHEARWALL BRACING, LOOSE LINTEL SCHEDULE, AND OTHER INFORMATION NOT SHOWN ON PLAN.

12. VERIFY ALL FRAMING DIMENSIONS AND BACKGROUNDS WITH THE ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER.

13. PROVIDE MINIMUM DOUBLE 2x STUD UNDERNEATH EACH GIRDER TRUSS.

FLOOR FRAMING LEGEND

- HEADER

- DROP BEAM

- FLUSH BEAM

- FLOOR/BALCONY/CORRIDOR TRUSS

- GIRDER TRUSS

- BALCONY TRUSS

- CORRIDOR TRUSS

- CONTINUOUS BEARING TRUSS

- FLOOR TRUSS

- GIRDER TRUSS

- ROOF TRUSS

- STRAP, FOR SIZE RE: PLAN

- PARALLEL STRAND LUMBER

- GLULAM BEAM

- CONTINUOUS

- NON-LOAD BEARING WALL ABOVE DOUBLE UNLESS NOTED OTHERWISE

- BRIDGING

- UNDER WALL ABOVE

WOOD BEAM SCHEDULE			
PLAN MARK	BEAM TO USE *	SIMPSON HANGER	
226	(2) 2 x 6	HU26-2	
228	(2) 2 x 8	HU28-2	
2210	(2) 2 x 10	HU210-2	
2212	(2) 2 x 12	HU212-2	
326	(3) 2 x 6	HU26-3	
328	(3) 2 x 8	HU28-3	
3210	(3) 2 x 10	HU210-3	
3212	(3) 2 x 12	HU212-3	
4212	(4) 2 x 12	HHUS210-4	

PSL BEAM SCHEDULE			
B408	3 1/2" x 7 1/4"	HGUS410	
B409	3 1/2" x 9 1/4"	HGUS412	
B411	3 1/2" x 11 1/4"	HGUS412	
B412	3 1/2" x 11 7/8"	HGUS412	
B414	3 1/2" x 14"	HGUS414	
B416	3 1/2" x 16"	HGUS414	
B418	3 1/2" x 18"	HGUS414	
B609	5 1/4" x 9 1/4"	HGUS5.50/10	
B611	5 1/4" x 11 1/4"	HGUS5.50/12	
B612	5 1/4" x 11 7/8"	HGUS5.50/12	
B614	5 1/4" x 14"	HGUS5.50/14	
B616	5 1/4" x 16"	HGUS5.50/14	
B618	5 1/4" x 18"	HGUS5.50/14	
B711	7" x 11 1/4"	HGUS7.25/12	
B712	7" x 11 7/8"	HGUS7.25/12	
B714	7" x 14"	HGUS7.25/14	
B716	7" x 16"	HGUS7.25/14	
B718	7" x 18"	HGUS7.25/14	

* NOTE:
REFER TO GENERAL NOTES FOR MEMBER PROPERTIES.

LOAD BEARING HEADER SCHEDULE			
(#2 SYP OR #2 D. FIR)			
CLEAR SPAN	SIZE (UNLESS NOTED)	REMARKS	
≤2'-0"	2-2x6	1, 2	
2'-1 1/2 ≤ 4'-0"	2-2x8	1, 2	
4'-1 1/2 ≤ 5'-0"	2-2x10	1, 2	
5'-1 1/2 ≤ 6'-0"	2-2x12	1, 2	
6'-1 1/2 ≤ 8'-0"	2-2x12	1, 2	
8'-1 1/2 ≤ 10'-0"	2-2x12	1, 2	

NOTES:

1. MULTIPLE LUMBER BEAMS SHALL BE CONSTRUCTED WITH A 1/2" THICK OSB/PLYWOOD SPACER BETWEEN MEMBERS. MEMBERS SHALL BE NAILED TOGETHER USING 16d NAILS @ 12" O.C. TOP AND BOTTOM (STAGGERED).

2. HEADERS LOCATED IN DESIGNATED BEARING WALLS AND IN WALLS SUBJECT TO EXTERIOR WIND LOAD ARE CONSIDERED LOAD BEARING.

NON LOAD BEARING HEADER SCHEDULE			
(#2 SYP OR #2 D. FIR)			
CLEAR SPAN	SIZE (UNLESS NOTED)	REMARKS	
≤ 4'-0"	2-2x6	1	
4'-1 1/2 ≤ 6'-0"	2-2x8	1	
6'-1 1/2 ≤ 8'-0"	2-2x10	1	
8'-1 1/2 ≤ 10'-0"	2-2x12	1	

NOTES:

1. MULTIPLE LUMBER BEAMS SHALL BE CONSTRUCTED WITH A 1/2" THICK OSB/PLYWOOD SPACER BETWEEN MEMBERS. MEMBERS SHALL BE NAILED TOGETHER USING 16D NAILS @ 12" O.C. TOP AND BOTTOM (STAGGERED).

ROOF FRAMING NOTES

1. TRUSS SPACING SHALL BE 24" ON CENTER UNLESS NOTED OTHERWISE.

2. ARCHITECTURAL BACKGROUND SHOWN IS LAYOUT OF FLOOR BELOW.

3. BEARING WALLS ARE INDICATED THUS:

4. TOP OF PLATES AT ROOF MAY VARY FROM ELEVATIONS SHOWN ON PLANS. REFER TO ARCHITECTURAL DRAWINGS FOR CONDITIONS NOTED DIFFERENTLY ON THE STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO STRUCTURAL ENGINEER.

5. VERIFY ALL FRAMING DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO STRUCTURAL ENGINEER.

6. AREAS SHADED ON PLAN REPRESENT OVERLAY CONDITIONS. FRAME WITH 2x6 AT 24" ON CENTER MAXIMUM WITH 2x8 RIDGE.

7. ROOF TRUSSES SHALL BE ANCHORED AT BEARING SUPPORTS WITH HURRICANE TIES AT 24" ON CENTER MAXIMUM USING SIMPSON H2.5 TIES.

8. CONTRACTOR SHALL PROVIDE ERECTION BRACING FOR ROOF FRAMING INSTALLATION IN ACCORDANCE WITH TRUSS MANUFACTURER'S RECOMMENDATIONS UNLESS NOTED OTHERWISE.

9. REFER TO ARCHITECTURAL DRAWINGS FOR ALL ROOF SLOPES.

10. THE TRUSS LAYOUT SHOWN ON THIS DRAWING REPRESENTS DIRECTION OF TRUSS SPANS ONLY. THIS DRAWING SHALL NOT BE USED FOR PLACEMENT OF TRUSSES. REFER TO APPROVED TRUSS MANUFACTURER'S DRAWINGS FOR PLACEMENT, DIMENSIONS, BRACING AND CONNECTIONS.

11. PROVIDE MINIMUM DOUBLE 2x STUDS UNDERNEATH EACH GIRDER TRUSS.

ROOF FRAMING LEGEND

- HEADER

- DROP BEAM

- FLUSH BEAM

- ROOF TRUSS

- WALL TRUSS

- GIRDER TRUSS

- HANGER BY SIMPSON

- OVERLAID FRAMING AREA

- STRONGBACK OR DIAGONAL BRACING

1 FOUNDATION SCHEDULE

SHEARWALL NOTES

1. SHEARWALL WITH OPENINGS MAY REQUIRE HARDWARE AT CORNERS OF OPENINGS. RE: SHEARWALL DETAIL SHEET FOR DETAILS.

2. REFER TO SHEET SD3-1 FOR SHEARWALL DETAILS.

SHEARWALL LEGEND

SHEARWALL HOLDOWN OR ANCHOR SHOWN ON PLAN

SHEARWALL

SHEARWALL TYPE CALLED OUT THIS SIDE (PLAN REFERENCE)

SHEARWALL TYPE OPPOSITE SIDE (PLAN REFERENCE)

SHEARWALL LENGTH IN FT.

SHEARWALL NOTES

1. SHEARWALLS WITH OPENINGS MAY REQUIRE HARDWARE AT CORNERS OF OPENINGS. RE: SHEARWALL DETAIL SHEET FOR DETAILS.

2. REFER TO SHEET SD3-1 FOR SHEARWALL DETAILS.

SHEARWALL LEGEND

SHEARWALL HOLDOWN OR ANCHOR SHOWN ON PLAN

SHEARWALL

SHEARWALL TYPE CALLED OUT THIS SIDE (PLAN REFERENCE)

SHEARWALL TYPE OPPOSITE SIDE (PLAN REFERENCE)

SHEARWALL LENGTH IN FT.

2 FLOOR FRAMING NOTES

3 BEAM SCHEDULE

4 LOAD BEARING AND NON LOAD BEARING HEADER SCHEDULE

5 ROOF FRAMING NOTES

6 SHEARWALL SCHEDULE

7 STORY SCHEDULE

8 COLUMN & STUD PACKS SCHEDULE

TWO STORY SCHEDULE				
(#2 SYP OR #2 D. FIR)				
EXT. LOAD BEARING TRIMMER/KING POST SCHEDULE (FLOOR TRUSSES PARALLEL TO WALLS)				
CLEAR SPAN	STUDS	1ST FLOOR	2ND FLOOR	
≤2'-0"	TRIMMER KING POST	1 1	1 1	
2'-1 1/2 ≤ 4'-0"	TRIMMER KING POST	1 2	1 2	
4'-1 1/2 ≤ 5'-0"	TRIMMER KING POST	1 2	1 2	
5'-1 1/2 ≤ 6'-0"	TRIMMER KING POST	2 2	1 2	
6'-1 1/2 ≤ 8'-0"	TRIMMER KING POST	2 3	2 3	
8'-1 1/2 ≤ 10'-0"	TRIMMER KING POST	2 3	2 3	

TWO STORY SCHEDULE				
(#2 SYP OR #2 D. FIR)				
INTERIOR LOAD BEARING TRIMMER/KING POST SCHEDULE				
CLEAR SPAN	STUDS	1ST FLOOR	2ND FLOOR	
≤2'-0"	TRIMMER KING POST	1 1	1 1	
2'-1" ≤ 4'-0"	TRIMMER KING POST	1 1	1 1	
4'-1" ≤ 5'-0"	TRIMMER KING POST	1 1	1 1	
5'-1" ≤ 6'-0"	TRIMMER KING POST	2 1	1 1	
6'-1" ≤ 8'-0"	TRIMMER KING POST	2 1	2 1	
8'-1" ≤ 10'-0"	TRIMMER KING POST	3 1	2 1	

ONE STORY SCHEDULE			
(STUD GRADE SYP OR STUD GRADE D. FIR)			
INTER. LOAD BEARING TRIMMER/KING POST SCHEDULE			
CLEAR SPAN	STUDS	1ST FLOOR	
≤2'-0"	TRIMMER KING POST	1 1	
2'-1" ≤ 4'-0"	TRIMMER KING POST	1 1	
4'-1" ≤ 5'-0"	TRIMMER KING POST	1 1	
5'-1" ≤ 6'-0"	TRIMMER KING POST	1 1	
6'-1" ≤ 8'-0"	TRIMMER KING POST	2 1	
8'-1" ≤ 10'-0"	TRIMMER KING POST	2 1	

ONE STORY SCHEDULE			
(STUD GRADE SYP OR STUD GRADE D. FIR)			
LOAD BEARING TRIMMER/KING POST SCHEDULE			
CLEAR SPAN	STUDS	1ST FLOOR	
≤2'-0"	TRIMMER KING POST	1 1	
2'-1" ≤ 4'-0"	TRIMMER KING POST	1 1	
4'-1" ≤ 5'-0"	TRIMMER KING POST	1 1	
5'-1" ≤ 6'-0"	TRIMMER KING POST	1 2	
6'-1" ≤ 8'-0"	TRIMMER KING POST	2 2	
8'-1" ≤ 10'-0"	TRIMMER KING POST	2 3	

TWO STORY SCHEDULE				
(#2 SYP OR #2 D. FIR)				
EXT. LOAD BEARING TRIMMER/KING POST SCHEDULE (ROOF/TRUSSES @ SAME DIRECTION-WORST CASE)				
CLEAR SPAN	STUDS	1ST FLOOR	2ND FLOOR	
≤2'-0"	TRIMMER KING POST	1 1	1 1	
2'-1" ≤ 4'-0"	TRIMMER KING POST	1 2	1 2	
4'-1" ≤ 5'-0"	TRIMMER KING POST	1 2	1 2	
5'-1" ≤ 6'-0"	TRIMMER KING POST	2 2	1 2	
6'-1" ≤ 8'-0"	TRIMMER KING POST	2 3	2 3	
8'-1" ≤ 10'-0"	TRIMMER KING POST	3 3	2 3	

THREE STORY SCHEDULE					
(#2 SYP)					
EXT. LOAD BEARING TRIMMER/KING POST SCHEDULE (ROOF/FLOOR TRUSSES @ SAME DIRECTION-WORST CASE)					
CLEAR SPAN	STUDS	1ST FLOOR	2ND FLOOR	3RD FLOOR	
≤2'-0"	TRIMMER KING POST	1 1	1 1	1 1	
2'-1" ≤ 4'-0"	TRIMMER KING POST	2 2	1 2	1 2	
4'-1" ≤ 5'-0"	TRIMMER KING POST	2 2	1 2	1 2	
5'-1" ≤ 6'-0"	TRIMMER KING POST	2 2	2 2	1 2	
6'-1" ≤ 8'-0"	TRIMMER KING POST	3 3	2 3	2 3	
8'-1" ≤ 10'-0"	TRIMMER KING POST	4 3	3 3	2 3	

THREE STORY SCHEDULE					
(#2 SYP OR BETTER) (U.N.O. ON PLANS)					
INTERIOR LOAD BEARING TRIMMER/KING POST SCHEDULE					
CLEAR SPAN	STUDS	1ST FLOOR	2ND FLOOR	3RD FLOOR	
≤2'-0"	TRIMMER KING POST	1 1	1 1	1 1	
2'-1" ≤ 4'-0"	TRIMMER KING POST	2 1	1 1	1 1	
4'-1" ≤ 5'-0"	TRIMMER KING POST	2 1	1 1	1 1	
5'-1" ≤ 6'-0"	TRIMMER KING POST	2 1	2 1	1 1	
6'-1" ≤ 8'-0"	TRIMMER KING POST	3 1	2 1	2 1	
8'-1" ≤ 10'-0"	TRIMMER KING POST	4 1	3 1	2 1	

THREE STORY SCHEDULE					
(#2 SYP OR BETTER) (U.N.O. ON PLANS)					
EXT. LOAD BEARING TRIMMER/KING POST SCHEDULE (FLOOR TRUSSES PARALLEL TO WALLS)					
CLEAR SPAN	STUDS	1ST FLOOR	2ND FLOOR		

TABLE 2304.9.1
FASTENING SCHEDULE (IBC 2015)

CONNECTION	FASTENING ^{a, m}	LOCATION
1. Joist to sill or girder	3 – 8d common (2 ½" x 0.131") 3 – 3" x 0.131" nails 3 – 3" 14 gage staples	toenail
2. Bridging to joist	2 – 8d common (2 ½" x 0.131") 2 – 3" x 0.131" nails 2 – 3" 14 gage staples	toenail each end
3. 1" x 6" subfloor or less to each joist	2 – 8d common (2 ½" x 0.131")	face nail
4. Wider than 1" x 6" subfloor to each joist	3 – 8d common (2 ½" x 0.131")	face nail
5. 2" subfloor to joist or girder	2 – 16d common (3 ½" x 0.162")	blind and face nail
6. Sole plate to joist or blocking	16d (3 ½" x 0.135") at 16" o.c. 3" x 0.131" nails at 8" o.c. 3" 14 gage staples at 12" o.c.	typical face nail
Sole plate to joist or blocking at braced wall panel	3 – 16d (3 ½" x 0.135") at 16" o.c. 4 – 3" x 0.131" nails at 16" o.c. 4 – 3" 14 gage staples at 16" o.c.	braced wall panels
7. Top plate to stud	2 – 16d common (3 ½" x 0.162") 3 – 3" x 0.131" nails 3 – 3" 14 gage staples	end nail
	4 – 8d common (2 ½" x 0.131") 4 – 3" x 0.131" nails 3 – 3" 14 gage staples	toenail
8. Stud to sole plate	2 – 16d common (3 ½" x 0.162") 3 – 3" x 0.131" nails 3 – 3" 14 gage staples	end nails
9. Double studs	16d (3 ½" x 0.135") at 24" o.c. 3" x 0.131" nail at 8" o.c. 3" 14 gage staple at 8" o.c.	face nail
10. Double top plates	16d (3 ½" x 0.135") at 16" o.c. 3" x 0.131" nail at 12" o.c. 3" 14 gage staple at 12" o.c.	typical face nail
Double top plates	8 – 16d common (3 ½" x 0.162") 12 – 3" x 0.131" nails 12 – 3" 14 gage staples	lap splice
11. Blocking between joists or rafters to top plate	3 – 8d common (2 ½" x 0.131") 3 – 3" x 0.131" nails 3 – 3" 14 gage staples	toenail
12. Rim joist to top plate	8d (2 ½" x 0.131") at 6" o.c. 3" x 0.131" nail at 6" o.c. 3" 14 gage staple at 6" o.c.	toenail
13. Top plates, laps and intersections	2 – 16d common (3 ½" x 0.162") 3 – 3" x 0.131" nails 3 – 3" 14 gage staples	face nail
14. Continuous header, two pieces	16d common (3 ½" x 0.162")	16" o.c. along edge
15. Ceiling joints to plate	3 – 8d common (2 1/2" x 0.131") 5 – 3" x 0.131" nails 5 – 3" 14 gage staples	toenail
16. Continuous header to stud	4 – 8d common (2 ½" x 0.131")	toenail
17. Ceiling Joists, laps over partitions (see Section 2308.10.4.1, Table 2308.10.4.1)	3 – 16d common (3 ½" x 0.162") minimum, Table 2308.10.4.1 4 – 3" x 0.131" nails 4 – 3" 14 gage staples	face nail
18. Ceiling Joists to parallel rafters (see Section 2308.10.4.1, Table 2308.10.4.1)	3 – 16d common (3 ½" x 0.162") minimum, Table 2308.10.4.1 4 – 3" x 0.131" nails 4 – 3" 14 gage staples	face nail
19. Rafter to plate (see Section 2308.10.1, Table 2308.10.1)	3 – 8d common (2 ½" x 0.131") 3 – 3" x 0.131" nails 3 – 3" 14 gage staples	toenail
20. 1" diagonal brace to each stud and plate	2 – 8d common (2 ½" x 0.131") 2 – 3" x 0.131" nails 3 – 3" 14 gage staples	face nail
21. 1" x 8" sheathing to each bearing	3 – 8d common (2 ½" x 0.131")	face nail
22. Wider than 1" x 8" sheathing to each bearing	3 – 8d common (2 ½" x 0.131")	face nail
23. Built-up corner studs	16d common (3 ½" x 0.162") 3" x 0.131" nails 3" 14 gage staples	24" o.c. 16" o.c. 16" o.c.
24. Built-up girder and beams	20d common (4" x 0.192") 32" o.c. 3" x 0.131" nails at 24" o.c. 3" 14 gage staple at 24" o.c.	face nail at top and bottom staggered on opposite sides
	2 – 20d common (4" x 0.192") 3 – 3" x 0.131" nails 3 – 3" 14 gage staples	face nail at ends and at each splice
25. 2" planks	16d common (3 ½" x 0.162")	at each bearing
26. Collar tie to rafter	3 – 10d common (3" x 0.148") 4 – 3" x 0.131" nails 4 – 3" 14 gage staples	face nail
	3 – 10d common (3" x 0.148") 4 – 3" x 0.131" nails 4 – 3" 14 gage staples	toenail
27. Jack rafter to hip	2 – 16d common (3 ½" x 0.162") 3 – 3" x 0.131" nails 3 – 3" 14 gage staples	face nail
	2 – 16d common (3 ½" x 0.162") 3 – 3" x 0.131" nails 3 – 3" 14 gage staples	toenail
28. Roof rafter to 2-by ridge beam	2 – 16d common (3 ½" x 0.162") 3 – 3" x 0.131" nails 3 – 3" 14 gage staples	face nail

1 NAILING SCHEDULE AND NOTES (IBC 2015)

TABLE 2304.9.1—continued
FASTENING SCHEDULE (IBC 2015)

CONNECTION	FASTENING ^{a, m}	LOCATION
29. Joist to band joist	3 – 16d common (3 ½" x 0.162") 4 – 3" x 0.131" nails 4 – 3" 14 gage staples	face nail
30. Ledger strip	3 – 16d common (3 ½" x 0.162") 4 – 3" x 0.131" nails 4 – 3" 14 gage staples	face nail at each joist
31. Wood structural panels and particleboard ^b Subfloor, roof and wall sheathing (to framing)	1/2" and less 2 ¾" x 0.113" nail ⁿ 1 ¾" 16 gage ^o 8d ^o or 6d ^o 2 ¾" x 0.113" nail ^p 2" 16 gage ^p 7/8" to 1" 8d ^c 1 ½" to 1 ¾" 10d ^d or 8d ^e	face nail
Single floor (combination subfloor–underlayment to framing)	3/4" and less 7/8" to 1" 8d ^e 1 ½" to 1 ¾" 10d ^e or 8d ^e	
32. Panel siding (to framing)	1/2" or less 5/8" 6d ^f 8d ^f	
33. Fiberboard sheathing ^g	1/2" 25/32" No. 11 gage roofing nail ^h 6d common nail (2" x 0.113") No. 16 gage staple ⁱ No. 11 gage roofing nail ^h 8d common nail (2 ½" x 0.131") No. 16 gage staple ⁱ	
34. Interior paneling	1/4" 3/8" 4d ^j 6d ^k	

For SI: 1 inch = 25.4 mm.

- a. Common or box nails are permitted to be used except where otherwise stated.
- b. Nails spaced at 6 inches on center at edges, 12 inches at intermediate supports except 6 inches at supports where spans are 48 inches or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Section 2305. Nails for sheathing are permitted to be common, box or casing.
- c. Common or deformed shank ($6d - 2" \times 0.113$; $8d - 2 \frac{1}{2}" \times 0.131$; $10d - 3" \times 0.148$ ")
- d. Common ($6d - 2" \times 0.113$; $8d - 2 \frac{1}{2}" \times 0.131$; $10d - 3" \times 0.148$ ")
- e. Deformed shank ($6d - 2" \times 0.113$; $8d - 2 \frac{1}{2}" \times 0.131$; $10d - 3" \times 0.148$ ")
- f. Corrosion-resistant siding ($6d - 1 \frac{1}{4}" \times 0.106$; $8d - 2 \frac{1}{8}" \times 0.128$); or casing ($6d - 2" \times 0.099$; $8d - 2 \frac{1}{2}" \times 0.113$ ") nail.
- g. Fasteners spaced 3 inches on center at exterior edges and 6 inches on center at intermediate supports, when used as structural sheathing. Spacing shall be 6 inches on center on the edge and 12 inches on center at intermediate supports for nonstructural applications.
- h. Corrosion-resistant roofing nails with $7/16$ -inch-diameter head and $1 \frac{1}{2}$ -inch length for $1/2$ -inch sheathing and $1 \frac{3}{4}$ -inch length for $25/32$ -inch sheathing.
- i. Corrosion-resistant staples with nominal $7/16$ -inch crown and 1-inch crown, and $1 \frac{1}{4}$ -inch length for $1/2$ -inch sheathing and $1 \frac{1}{2}$ -inch length for $25/32$ -inch sheathing. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked).
- j. Casing ($1 \frac{1}{2}" \times 0.080$) or finish ($1 \frac{1}{2}" \times 0.072$) nails spaced 6 inches on panel edges, 12 inches at intermediate supports.
- k. Panel supports at 24 inches, Casing or finish nails spaced 6 inches on panel edges, 12 inches at intermediate supports.
- l. For roof sheathing applications, 8d nails ($2 \frac{1}{2}" \times 0.113$) are the minimum required for wood structural panels.
- m. Staples shall have a minimum crown width of $7/16$ inch.
- n. For roof sheathing applications, fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports.
- o. Fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports for subfloor and wall sheathing and 3 inches on center at edges, 6 inches at intermediate supports for roof sheathing.
- p. Fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports.

STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY CROSSMAN]

Sheet Title:

Description


Date: _____

Rev.

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____

Handwritten: Katsun



A circular professional engineer seal for the State of Texas. The seal features a five-pointed star in the center. The text "STATE OF TEXAS" is arched over the top of the star. Below the star, the name "SANDEEP N. PATEL" is printed. Underneath the name is the license number "80656". At the bottom of the seal, the words "LICENSED" and "PROFESSIONAL ENGINEER" are printed in a curved path.

05/23/2019
Texas Registered Engineering Firm
F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL – TRADE SECRETS

THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEE LLC, AND SHOULD NOT BE USED, REPLICATED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/ANALYSIS.

UNAUTHORIZED USE OR COPYING OF THIS
OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO.

S0-6

SCHEDULES

G:\136 - KELLY GROSSMAN\136-089 Norwood Apartments\Structural Drawings\Working Drawings\S0-7.dwg Plotted: May 23, 2019 - 9:30 AM by Hao Tran

STATEMENT OF SPECIAL INSPECTIONS (2015 IBC)

Special Inspections may be required by local code or building official. Below is an excerpt from the IBC showing typical inspections. Actual required special inspections and their frequency should be confirmed prior to construction. This office takes no responsibility for inspections not conducted by a representative of this firm.

Table 1.19.1 – Level A Quality Assurance

MINIMUM TESTS
None
MINIMUM INSPECTION
Verify compliance with the approved submittals

Table 1.19.2 – Level B Quality Assurance

MINIMUM TESTS				
Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with Specification Article 1.5 B.1.b.3 for self-consolidating grout.				
Verification of f'_m and f'_{wc} in accordance with Specification Article 1.4 B prior to construction, except where specifically exempted by this code.				
MINIMUM INSPECTION				
Inspection Task	Frequency ^(a)		Reference for Criteria	
	Continuous	Periodic	TMS 402 ACI 530/ ASCE 5	TMS 602/ ACI 530.1/ ASCE 6
1. Verify compliance with the approved submittals		X		Art. 1.5
2. As masonry construction begins, verify that the following are in compliance:				
a. Proportions of site-prepared mortar		X		Art. 2.1 2.6 A
b. Construction of mortar joints		X		Art. 3.3 B
c. Grade and size of prestressing tendons and anchorages		X		Art. 2.4 B, 2.4 H
d. Location of reinforcement, connectors, and prestressing tendons and anchorages		X		Art. 3.4, 3.6 A
e. Prestressing technique.		X		Art. 3.6 B
f. Properties of thin-bed mortar for AAC masonry	X ^(b)	X ^(b)		Art. 2.1 C
3. Prior to grouting, verified that the following are in compliance:				
a. Grout space		X		Art. 3.2 D 3.2 F
b. Grade, type and size of reinforcement and anchor bolts, and prestressing tendons and anchorages.		X	Sec. 1.16	Art. 2.4, 3.4
c. Placement of reinforcement, connectors, and prestressing tendons and anchorages		X	Sec. 1.16	Art. 3.2 E, 3.4, 3.6 A
d. Proportions of site-prepared grout and prestressing grout for bonded tendons		X		Art. 2.6 B 2.4 G.1.b
e. Construction of mortar joints		X		Art. 3.3 B
4. Verify during construction:				
a. Size and location of structural elements		X		Art. 3.3 F
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction		X	Sec. 1.16.4.3, 1.17.1	
c. Welding of reinforcement	X		Sec. 2.1.8.7.2, 3.3.3.4 (c) 8.3.3.4 (b)	
d. Preparation, construction and protection of masonry during cold weather (temperature below 40°F) (4.4°C) or hot weather (temperature above 90°F) (32.2°C)		X		Art. 1.8 C, 1.8 D
e. Application and measurement of prestressing force	X			Art. 3.6 B
f. Placement of grout and prestressing grout for bonded tendons is in compliance	X			Art. 3.5, 3.6 C
g. Placement of AAC masonry units and construction of thin-bed mortar joints	X ^(b)	X ^(b)		Art. 3.3 B.8
5. Observe preparation of grout specimens, mortar specimens, and/or prisms	X			Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4.

(a) Frequency refers to the frequency of inspection, which may be continuous during the task listed or periodically during the listed task, as defined in the table.

(b) Required for the first 5000 square feet (465 square meters) of AAC masonry.
(c) Required after the first 5000 square feet (465 square meters) of AAC masonry.

Table 1.19.3 – Level C Quality Assurance

MINIMUM TESTS				
Verification of f'_m and f'_{wc} in accordance with Article 1.4 B prior to construction and for every 5,000 sq. ft (465 sq. m) during construction				
Verification of proportions of materials in premixed of preblended mortar, prestressing grout, and grout other than self-consolidating grout, as delivered to the project site				
Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with Article 1.5 B.1.b.3 for self-consolidating grout.				
MINIMUM INSPECTION				
Inspection Task	Frequency ^(a)		Reference for Criteria	
	Continuous	Periodic	TMS 402 ACI 530/ ASCE 5	TMS 602/ ACI 530.1/ ASCE 6
1. Verify compliance with the approved submittals		X		Art. 1.5
2. Verify that the following are in compliance:				
a. Proportions of site-mixed mortar, grout and prestressing grout for bonded tendons		X		Art. 2.1, 2.6 A, 2.6 B, 2.6 C, 2.4 G.1.b
b. Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages		X	Sec. 1.16	Art. 2.4, 3.4
c. Placement of masonry units and construction of mortar joints		X		Art. 3.3 B
d. Placement of reinforcement, connectors, and prestressing tendons and anchorages	X		Sec. 1.16	Art. 3.2 E, 3.4, 3.6 A
e. Grout space prior to grouting	X			Art. 3.2 D 3.2 F
f. Placement of grout and prestressing grout for bonded tendons	X			Art. 3.5, 3.6 C
g. Size and location of structural elements		X		Art. 3.3 F
h. Type, size and location of anchors including other details of anchorage of masonry to structural members, frames, or other construction	X		Sec. 1.16.4.3 1.17.1	
i. Welding of reinforcement	X		Sec. 2.1.8.7.2, 3.3.3.4 (c) 8.3.3.4 (b)	
j. Preparation, construction and protection of masonry during cold weather (temperature below 40°F) (4.4°C) or hot weather (temperature above 90°F) (32.2°C)		X		Art. 1.8 C, 1.8 D
k. Application and measurement of prestressing force.	X			Art. 3.6 B
l. Placement of AAC masonry units and construction of thin-bed mortar joints	X			Art. 3.3 B.8
m. Properties of thin-bed mortar for AAC masonry	X			Art. 2.1 C.1
5. Observe preparation of grout specimens, mortar specimens, and/or prisms	X			Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4.

(a) Frequency refers to the frequency of inspection, which may be continuous during the task listed or periodically during the listed task, as defined in the table.

REQUIRED VERIFICATION AND INSPECTION OF SOILS		
TABLE 1705.6		
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASKS LISTED	PERIODICALLY DURING TASK LISTED
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	---	X
2. Verify excavations are extended to proper depth and have reached proper material.	---	X
3. Perform classification and testing of compacted fill materials.	---	X
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	---
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	---	X

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION	
SECTION 1705	
1705.2	Steel construction. The special inspections for steel elements of buildings and structures shall be as required in this section. Exception: Special inspection of the steel fabrication process shall not be required where the fabricator does not perform any welding thermal cutting or heating operation of any kind as part of the fabrication process. In such cases, the fabricator shall be required to submit a detailed procedure for material control that demonstrates the fabricator's ability to maintain suitable records and procedures such that, at any time during the fabrication process, the material specification, and grade for the main stress-carrying elements are capable of being determined. Mill test report shall be identifiable to the main stress-carry elements when required by the approved construction documents.
1705.2.1	Structural steel. Special inspection for structural steel shall be in accordance with the quality assurance inspection requirements of AISC 360.
1705.2.2	Steel construction other than structural steel. Special inspection for steel construction other than structural steel shall be in accordance with Table 1705.2.2 and this section.
1705.2.2.1	Welding. Welding inspection and Welding inspector qualification shall be in accordance with this section.
1705.2.2.1.1	Cold-formed steel. Welding inspection and Welding inspector qualification Cold-formed steel floor and roof decks shall be in accordance with AWS D1.3.
1705.2.2.1.2	Reinforcing steel. Welding inspection and Welding inspector qualification for reinforcing steel shall be in accordance with AWS D1.4 and ACI 318.
1705.2.2.2	Cold-formed steel trusses spanning 60 feet or greater. Where a Cold-formed steel truss clear span is 60 feet (18 288 mm) or greater, the special inspector shall verify that the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing are installed in accordance with the approved truss submittal package,

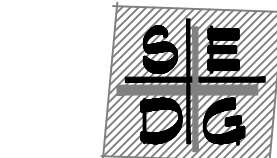
TABLE 1705.2.2
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

VERIFICATION AND INSPECTION	CONTINUOUS		PERIODIC	REFERENCED STANDARD ^a
1. Material verification of cold-formed steel deck:				
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	---		X	Applicable ASTM material standards
b. Manufacturer's certified test reports.	---		X	
2. Inspection of welding:				
a. Cold-formed steel deck:				
1) Floor and roof deck welds.	---		X	AWS D1.3
b. Reinforcing steel:				
1) Verification of weldability of reinforcing steel other than ASTM A 706	---		X	AWS D1.4 ACI 318: Section 3.5.2
2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	X	---		
3) Shear reinforcement.		X	---	
4) Other reinforcing steel.		---	X	

For SI: 1 inch = 25.4 mm.
a. Where applicable, see also Section 1705.11, Special inspections for seismic resistance.

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION				
TABLE 1705.3				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD ^a	IBC REFERENCE
1. Inspection of reinforcing steel, including prestressing tendons, and placement.	---	X	ACI 318: 3.5, 7.1–7.7	1910.4
2. Inspection of reinforcing steel welding in accordance with Table 1705.2.2, Item 2b.	---	---	AWS D1.4 ACI 318: 3.5.2	---
3. Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used.	---	X	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1
4. Inspection of anchors post-installed in hardened concrete members ^b	---	X	ACI 318: 3.8.6, 8.1.3, 21.2.8	1909.1
5. Verifying use of required design mix.	---	X	ACI 318: Ch. 4, 5.2–5.4	1904.2, 1910.2 1910.3
6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	---	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
7. Inspection of concrete and shotcrete placement for proper application techniques.	X	---	ACI 318: 5.9, 5.10	1910.6, 1910.7 1910.8
8. Inspection for maintenance of specified curing temperature and techniques.	---	X	ACI 318: 5.11–5.13	1910.9
9. Inspection of prestressed concrete: a. Application of prestressing forces. b. Grouting of bonded prestressing tendons in the seismic force-resisting system.	X X	---	ACI 318: 18.20 ACI 318: 18.18.4	---
10. Erection of precast concrete members.	---	X	ACI 318: Ch. 16	---
11. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	---	X	ACI 318: 6.2	---
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	---	X	ACI 318: 6.1.1	---

For SI: 1 inch = 25.4 mm.
a. Where applicable, see also Section 1705.11, Special inspections for seismic resistance.



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P.(281)583-7088 F.(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

INSPECTIONS

Sheet Title

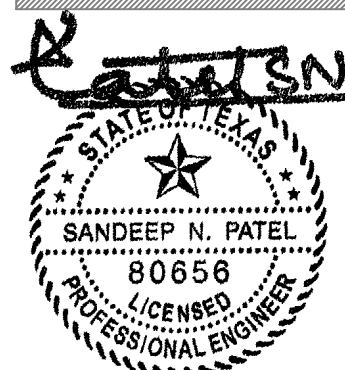
Date

Description

Rev.

Drawn By: HT
Checked By: DWH/ZA
Drawing Scale: As Noted
Project No. 136-089

ISSUED FOR: DATE:
☐ SD 30%
☐ Coordination
☐ CD 95%
☐ CD 100%
☐ Pricing
☐ Bidding
☒ Permit
☐ Construction
05/23/2019



05/23/2019
Texas Registered Engineering Firm

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL – TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH "BEST USE" AND SHOULD NOT BE USED, REPRODUCED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A DESIGN PROCESSING MATERIAL.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY PROHIBITED.

SHEET NO.

S0-7

INSPECTIONS

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]
set Title:
FOUNDATION PLAN - BUILDING TYPE I

Sheet Title:

Date _____

Description

Rev.

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____

Sandeep N. Patel

05/23/2019

Texas Registered Engineering Firm

F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL - TRADE SECRETS

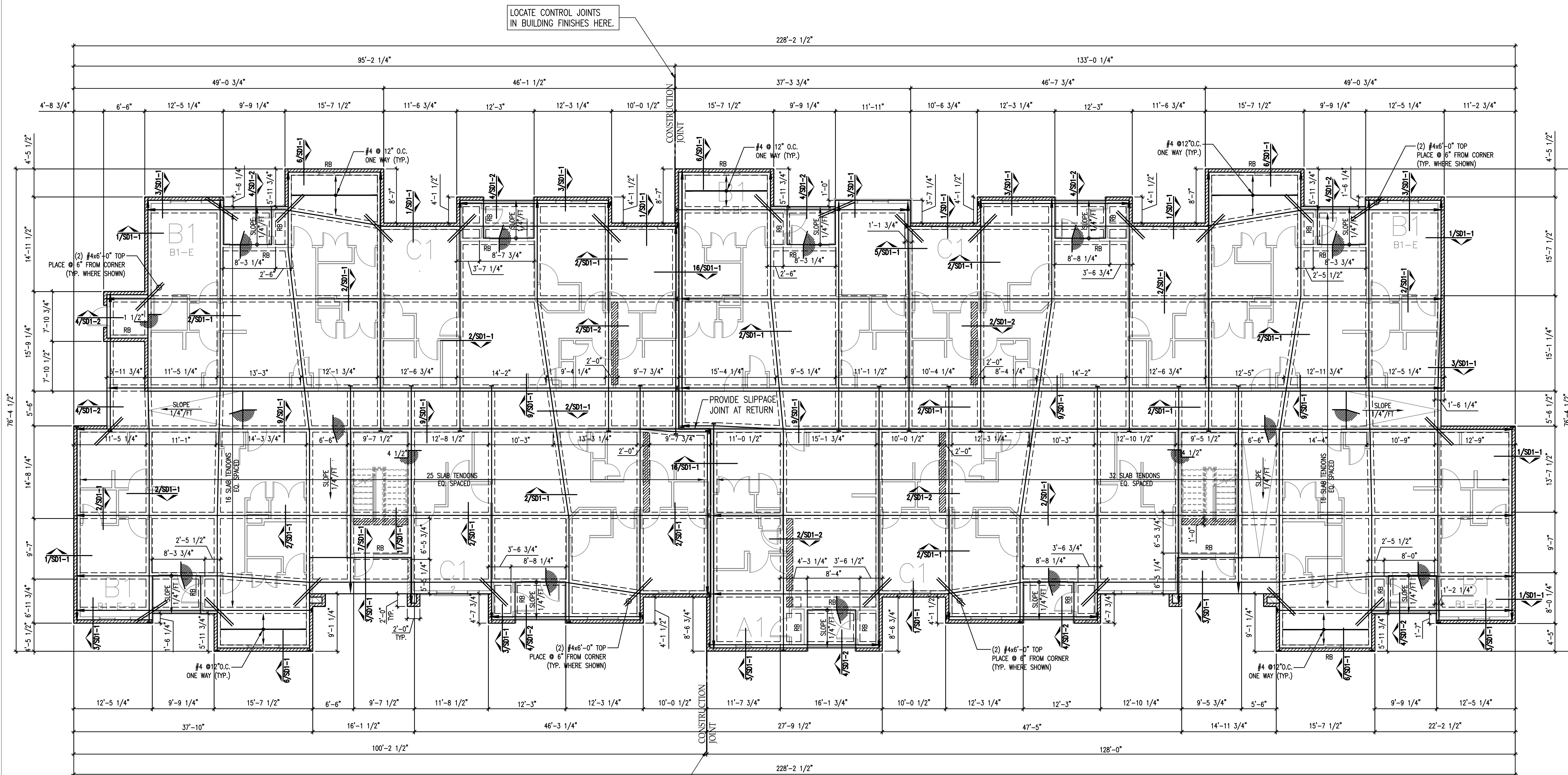
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEDG LLC, AND SHOULD NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/WATERFALL.

UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO.

S1-1

PLAN






FOUNDATION PLAN - BUILDING TYPE I

SCALE: 1/8"=1'-0"

SLAB NOTE

"4" THICK CONCRETE SLAB (UNLESS NOTED OTHERWISE)
ON MINIMUM TEN (10) MIL VAPOR BARRIER ON COMPACTED FILL
SUBGRADE. THE VAPOR BARRIER SHALL CONFORM TO ASTM
E1744 CLASS A OR B. THE BARRIER SHALL HAVE A MAXIMUM WATER
VAPOR PERMEANCE OF 0.01 PERMS WHEN TESTED IN
ACCORDANCE WITH ASTM E96.
THE VAPOR BARRIER SHALL BE INSTALLED PER THE
MANUFACTURER'S RECOMMENDATIONS AND ASTM E1643,
STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR
BARRIERS USED IN CONTACT WITH EARTH OR GRANULAR FILL
UNDER CONCRETE SLABS. REFER TO GEOTECHNICAL REPORT FOR
SUBGRADE PREPARATION AND COMPACTION REQUIREMENTS.

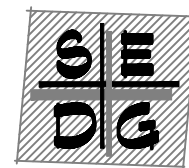
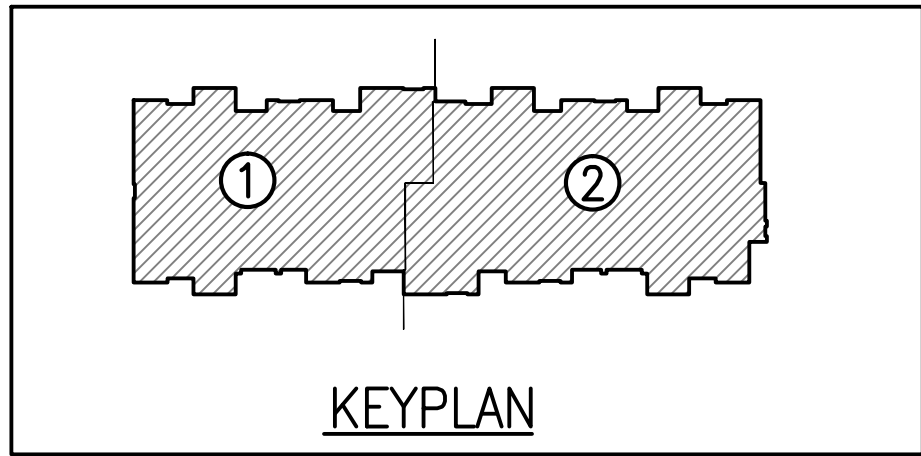
GRADE BEAM SCHEDULE

PLAN MARK	PLAN SYM.	BEAM WIDTH	BEAM DEPTH	NOTES
THICKENED SLAB		RE:PLAN	12"	2-#5 BOTT.
REINF. BEAM		12"	30"	2-#5 BOTT.
GRADE BEAM		12"	30"	w/#3 TIES@EACH TENDON

RE: S0-1, S0-2 & S0-5
FOR FOUNDATION NOTES
& SCHEDULE

PLEASE REVIEW
ARCHITECTURAL DRGS. FOR
DIMENSIONS, SLOPES,
DROPS & DEPRESSIONS.

G:\\$136 - KELLY GROSSMAN\136-089 Norwood Apartments\Structural Drawings\Working Drawings\501-2.dwg Plotted: May 23, 2019 - 9:31 AM by Hao Tran



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

OVERALL FOUNDATION PLAN
BUILDING TYPE II

Sheet Title:

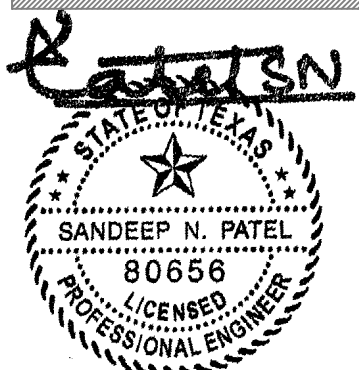
Date

Description

Rev.

Drawn By: HT
Checked By: DWH/ZA
Drawing Scale: As Noted
Project No. 136-089

ISSUED FOR: DATE: 05/23/2019
☐ SD 30%
☐ Coordination
☐ CD 95%
☐ CD 100%
☐ Pricing
☒ Permit
☐ Construction

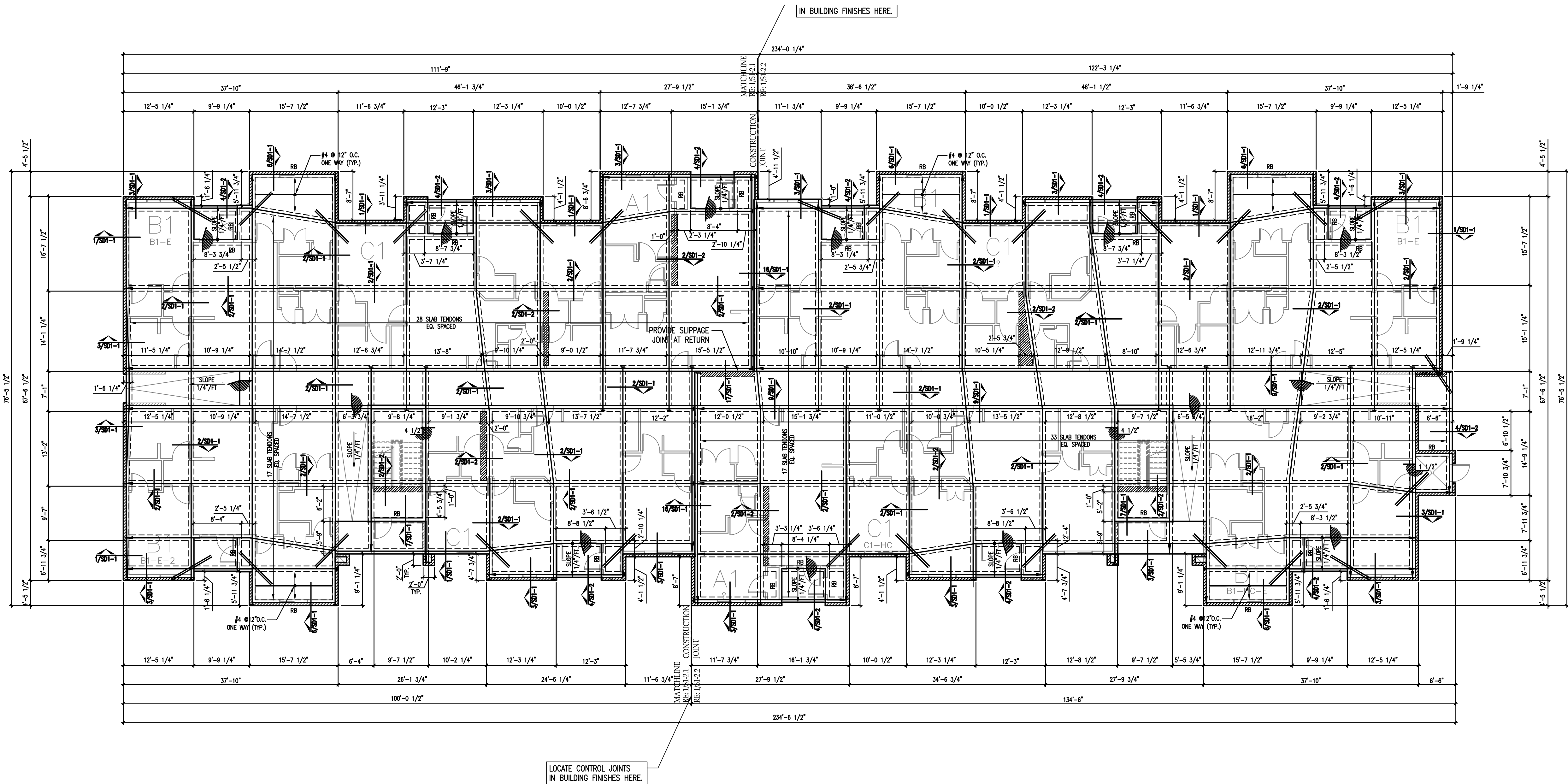


05/23/2019
Texas Registered Engineering Firm
F-19122
THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH ©2019 LDC, AND SHOULD NOT BE REPRODUCED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A DESIGN PROCESSING DOCUMENT.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS EXPRESSLY PROHIBITED.

SHEET NO.

S1-2

PLAN



1 OVERALL FOUNDATION PLAN - BUILDING TYPE II

SCALE: 3/32"=1'-0"




RE: S0-1, S0-2 & S0-5
FOR FOUNDATION NOTES
& SCHEDULE

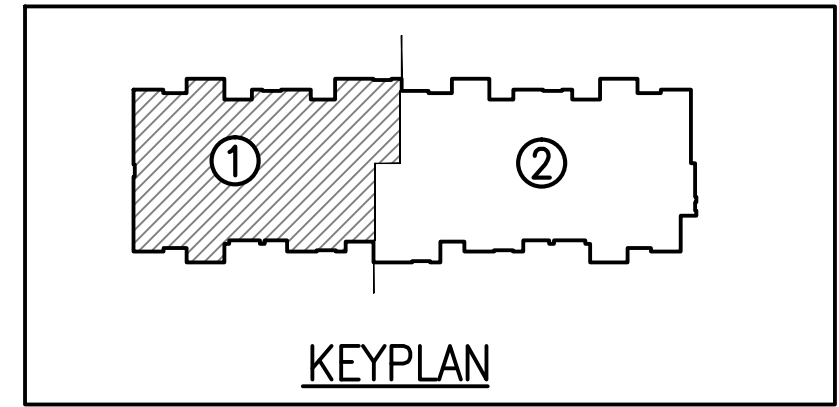
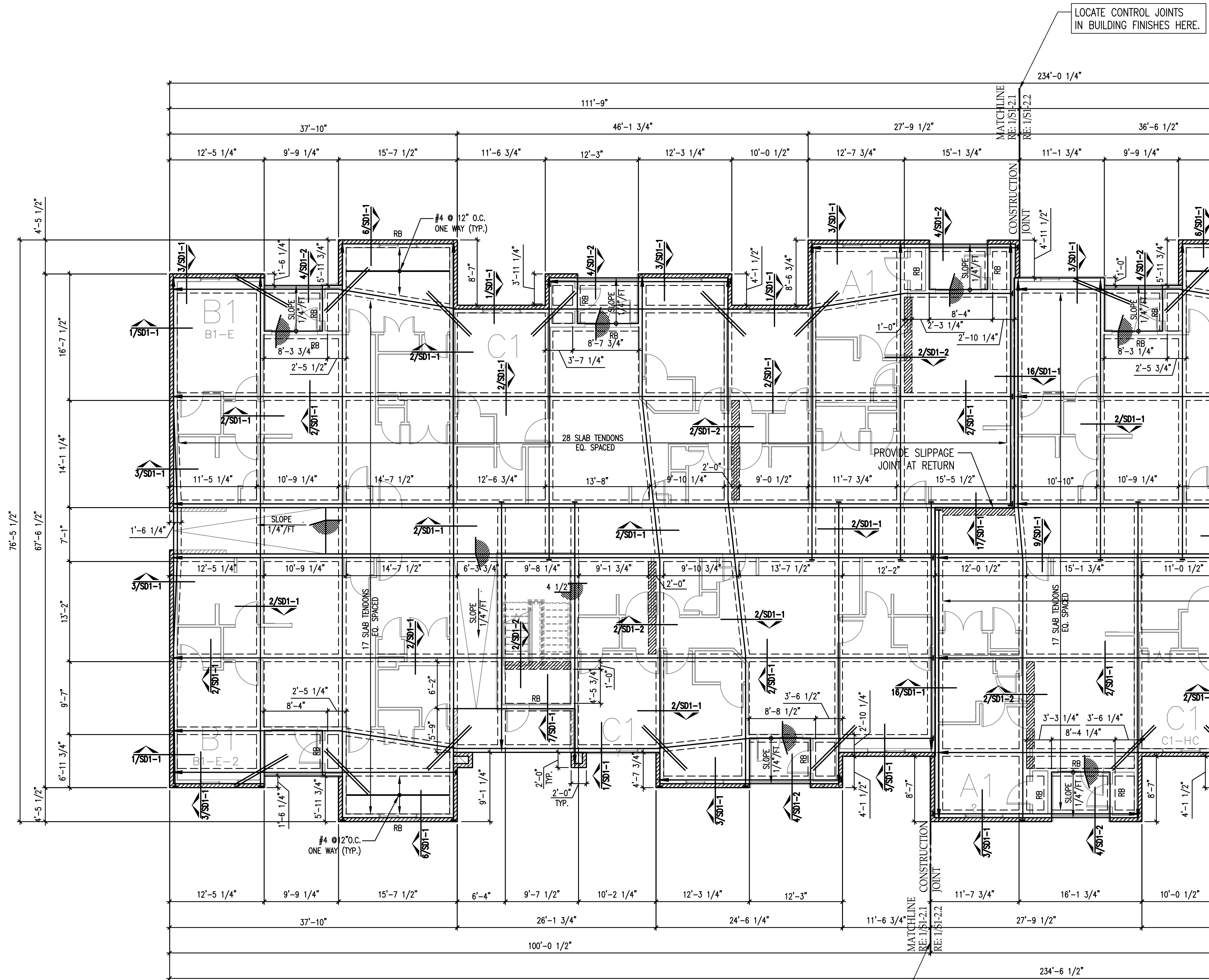
PLEASE REVIEW
ARCHITECTURAL DRGS. FOR
DIMENSIONS, SLOPES,
DROPS & DEPRESSIONS.

SLAB NOTE

*4" THICK CONCRETE SLAB (UNLESS NOTED OTHERWISE)
ON MINIMUM TEN (10) MIL VAPOR BARRIER ON COMPACTED FILL
SUBGRADE. THE VAPOR BARRIER SHALL CONFORM TO ASTM
E1745 CLASS A OR BETTER AND SHALL HAVE A MAXIMUM WATER
VAPOR PERMEANCE OF 0.01 PERMS WHEN TESTED IN
ACCORDANCE WITH ASTM E96.
THE VAPOR BARRIER SHALL BE INSTALLED PER THE
MANUFACTURER'S RECOMMENDATIONS AND ASTM E1643,
STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR
BARRIERS USED IN CONTACT WITH EARTH OR GRANULAR FILL
UNDER CONCRETE SLABS. REFER TO GEOTECHNICAL REPORT FOR
SUBGRADE PREPARATION AND COMPACTION REQUIREMENTS.

GRADE BEAM SCHEDULE

PLAN MARK	PLAN SYM.	BEAM WIDTH	BEAM DEPTH	NOTES
THICKENED SLAB		RE:PLAN	12"	2-#5 BOTT.
REINF. BEAM		12"	30"	2-#5 BOTT. w/#3 TIES@EACH TENDON
GRADE BEAM		12"	30"	1 TENDON



**STERLING ENGINEERING
DESIGN GROUP**
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495


Project Title: **NORWOOD PARK APARTMENTS**
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

[illegible]

Drawn By: HT	Checked By: DVH/ZA
Drawing Scale: As Noted	Project No. 136-089

ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____

Karatsn



A circular professional engineer seal for the State of Texas. The seal features a five-pointed star in the center. The text "STATE OF TEXAS" is written along the top inner edge, and "PROFESSIONAL ENGINEER" is written along the bottom inner edge. The name "SANDEEP N. PATEL" is printed in the center, above the license number "80656".

05/23/2019
Texas Registered Engineering Firm
F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL - TRADE SECRETS

THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEDG LLC, AND SHOULD NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/MATERIAL.

UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO. _____

SHEET NO.

S1-2.1

PLAN

1 PARTIAL FOUNDATION PLAN – BUILDING TYPE II (AREA #1)
SCALE: 1/8"=1'-0"




RE: S0-1, S0-2 & S0-5
FOR FOUNDATION NOTES
& SCHEDULE

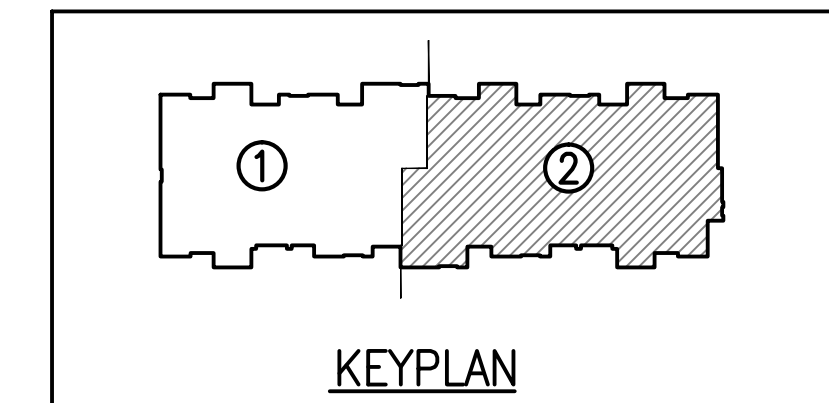
PLEASE REVIEW
ARCHITECTURAL DRGS. FOR
DIMENSIONS, SLOPES,
DROPS & DEPRESSIONS.

SLAB NOTE

1. MINIMUM TEN (10) MIL VAPOR BARRIER ON COMPACTED FILL SUBGRADE. THE VAPOR BARRIER SHALL CONFORM TO ASTM E1745 CLASS A OR BETTER AND SHALL HAVE A MAXIMUM WATER VAPOR PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. THE VAPOR BARRIER SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND ASTM E1643, STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR BARRIERS USED IN CONTACT WITH EARTH OR GRANULAR FILL UNDER CONCRETE SLABS. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION AND COMPACTION REQUIREMENTS.

GRADE BEAM SCHEDULE

PLAN MARK	PLAN SYM.	BEAM WIDTH	BEAM DEPTH	NOTES
THICKENED SLAB		RE:PLAN	12"	2-#5 BOTT.
REINF. BEAM		12"	30"	2-#5 BOTT. w/#3 TIES@EACH TENDON
GRADE BEAM		12"	30"	1 TENDON



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]


at Title: **PARTIAL FOUNDATION PLAN**
BUILDING TYPE II - AREA #2

[illegible]

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____

Patel SN



STATE OF TEXAS
★
SANDEEP N. PATEL
80656
LICENSED
PROFESSIONAL ENGINEER

05/23/2019
Texas Registered Engineering Firm
F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL – TRADE SECRETS

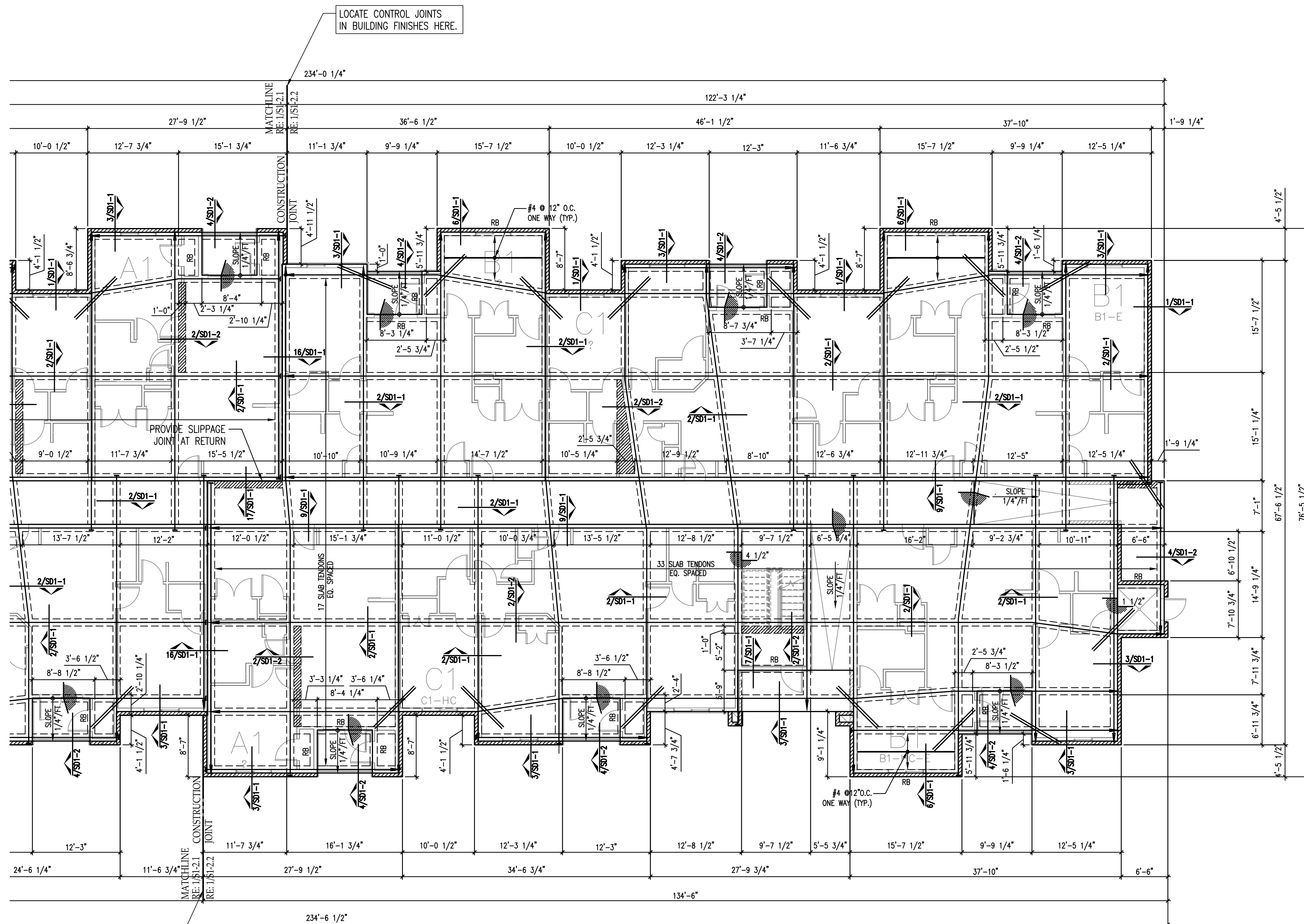
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEDG LLC, AND SHOULD NOT BE REPRODUCED, COPIED, OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/MATERIAL.

UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO.

S1-2.2

PLAN



LOCATE CONTROL JOINTS
IN BUILDING FINISHES HERE.

LOCATE CONTROL JOINTS
IN BUILDING FINISHES HERE.

1 PARTIAL FOUNDATION PLAN – BUILDING TYPE II (AREA #2)
SCALE: 1/8"=1'-0"




SCALE: 1/8"=1'-0"

RE: S0-1, S0-2 & S0-5
FOR FOUNDATION NOTES
& SCHEDULE

PLEASE REVIEW
ARCHITECTURAL DRGS. FOR
DIMENSIONS, SLOPES,
DROPS & DEPRESSIONS.

SLAB NOTE

"4" THICK CONCRETE SLAB (UNLESS NOTED OTHERWISE)
ON MINIMUM TEN (10) MIL VAPOR BARRIER ON COMPACTED FILL SUBGRADE. THE VAPOR BARRIER SHALL CONFORM TO ASTM E1745 CLASS A OR A BETTER AND SHALL HAVE A MAXIMUM WATER VAPOR PERMEANCE OF _____ PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96.
THE VAPOR BARRIER SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND ASTM E1643, STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR BARRIERS USED IN CONTACT WITH EARTH OR GRANULAR FILL UNDER CONCRETE SLABS. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION AND COMPACTION REQUIREMENTS.

GRADE BEAM SCHEDULE				
PLAN MARK	PLAN SYM.	BEAM WIDTH	BEAM DEPTH	NOTES
THICKENED SLAB		RE-PLAN	12"	2-#5 BOTT.
REINF. BEAM		12"	30"	2-#5 BOTT. w/#3 TIES @ EACH TENDON
GRADE BEAM		12"	30"	1 TENDON

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS

development By

Architect A


FOUNDATION PLAN - BUILDING TYPE III

Sheet Title:

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____

SANDEEP N. PATEL



STATE OF TEXAS
SANDEEP N. PATEL
80656
LICENSED
PROFESSIONAL ENGINEER

05/23/2019
Texas Registered Engineering Firm
F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL - TRADE SECRETS

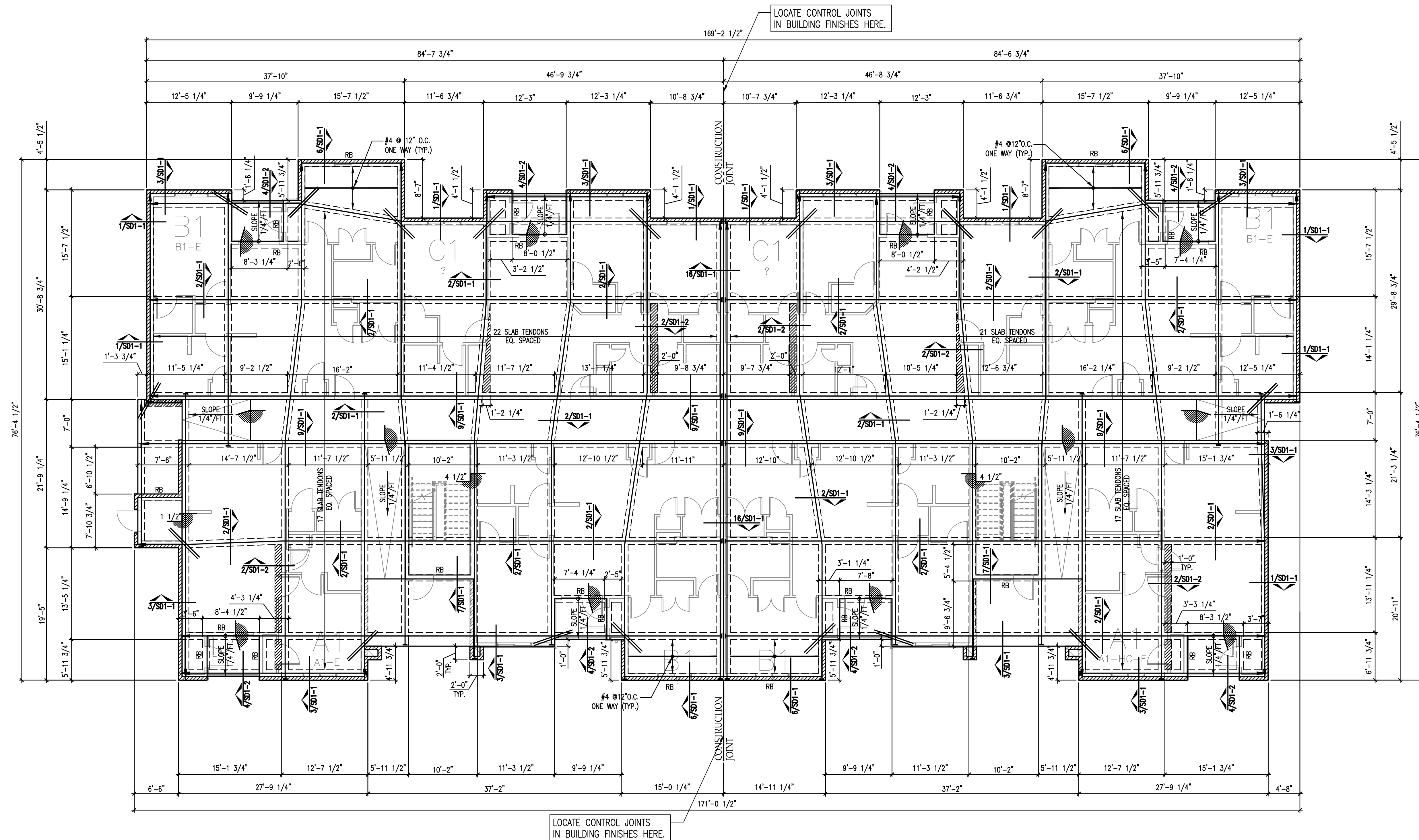
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEDG LLC, AND SHALL NOT BE REPRODUCED, COPIED, OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/MATERIAL.

UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO.

S1-3

PLAN






1 FOUNDATION PLAN - BUILDING TYPE III
SCALE: 1/8"=1'-0"

SCALE: 1/8"=1'-0"

SLAB NOTE

3. THICK CONCRETE SLAB (UNLESS NOTED OTHERWISE)
IN MINIMUM TEN (10) MIL VAPOR BARRIER ON COMPACTED FILL SUBGRADE. VAPOR BARRIER SHALL CONFORM TO ASTM E1547 CLASS A OR BETTER AND SHALL HAVE A MAXIMUM WATER VAPOR PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96.
THE VAPOR BARRIER SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND ASTM E1643, STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR BARRIERS USED IN CONTACT WITH EARTH OR GRANULAR FILL UNDER CONCRETE SLABS. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION AND COMPACTION REQUIREMENTS.

GRADE BEAM SCHEDULE

PLAN MARK	PLAN SYM.	BEAM WIDTH	BEAM DEPTH	NOTES
THICKENED SLAB		RE-PLAN	12"	2-#5 BOTT.
REINF. BEAM		12"	30"	2-#5 BOTT. w/#3 TIES@EACH TENDO
GRADE BEAM		12"	30"	1 TENDON

RE: S0-1, S0-2 & S0-5
FOR FOUNDATION NOTES
& SCHEDULE

PLEASE REVIEW
ARCHITECTURAL DRGS. FOR
DIMENSIONS, SLOPES,
DROPS & DEPRESSIONS.

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

Sheet Title:

10/10

Description

2000

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR: DATE:

☐ SD 30%

☐ Coordination

☐ CD 95%

☐ CD 100%

☐ Pricing

☐ Bidding

☒ Permit

☐ Construction

05/23/2019

Handwritten: Patel SM

STATE OF TEXAS
★
SANDEEP N. PATEL
80656
LICENSED
PROFESSIONAL ENGINEER

05/23/2019
Texas Registered Engineering Firm
F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL – TRADE SECRETS

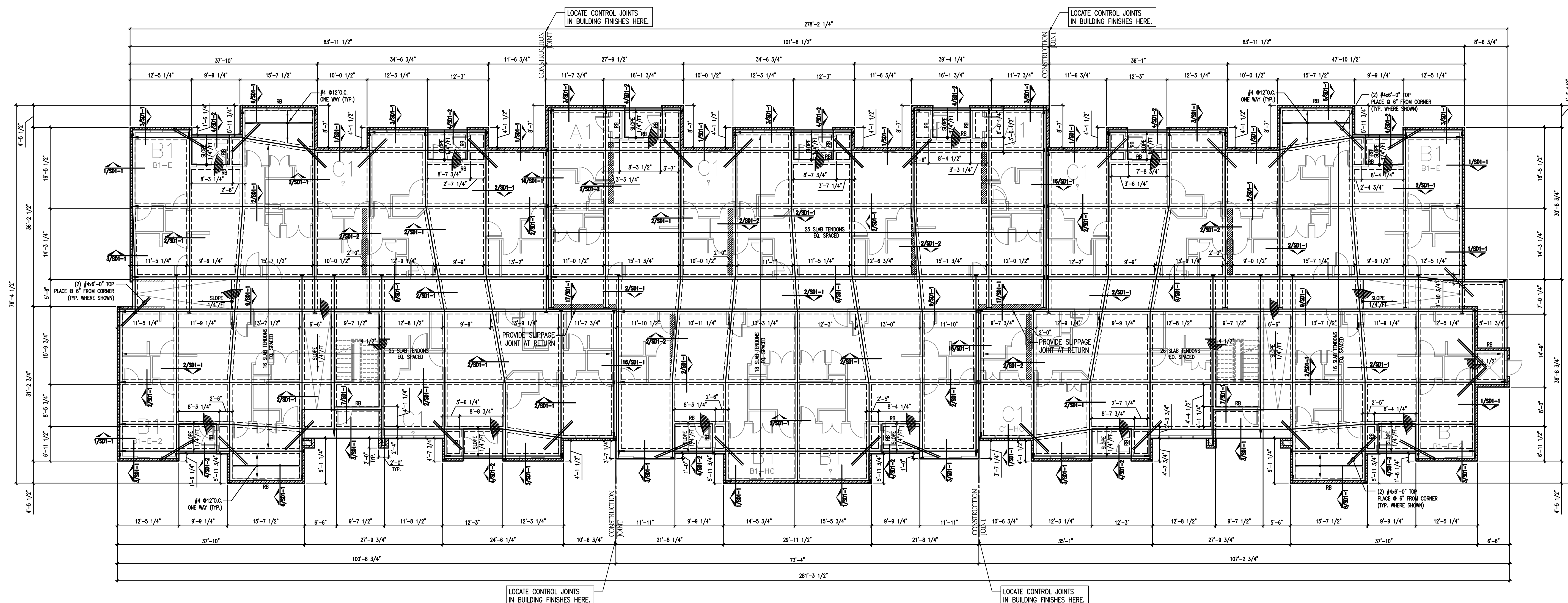
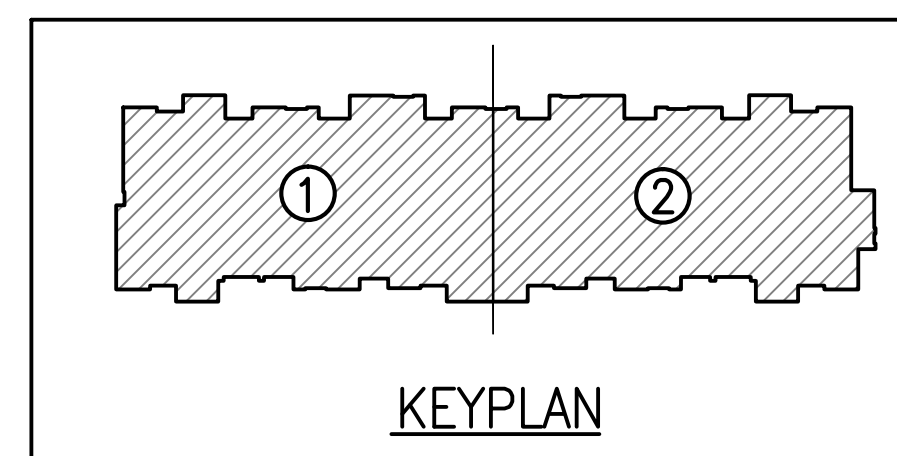
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEEQ LLC, AND SHOULD NOT BE USED, REPRODUCED OR DISCLOSED IN ANY MANNER WITHOUT THE EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/MATERIAL UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO.

SHEET NO.

S1-4

PLAN



1 OVERALL FOUNDATION PLAN – BUILDING TYPE IV
SCALE: 3/32"=1'-0"

SCALF: $3/32^{\text{nd}} = 1' - 0''$




RE: S0-1, S0-2 & S0-5
FOR FOUNDATION NOTES
& SCHEDULE

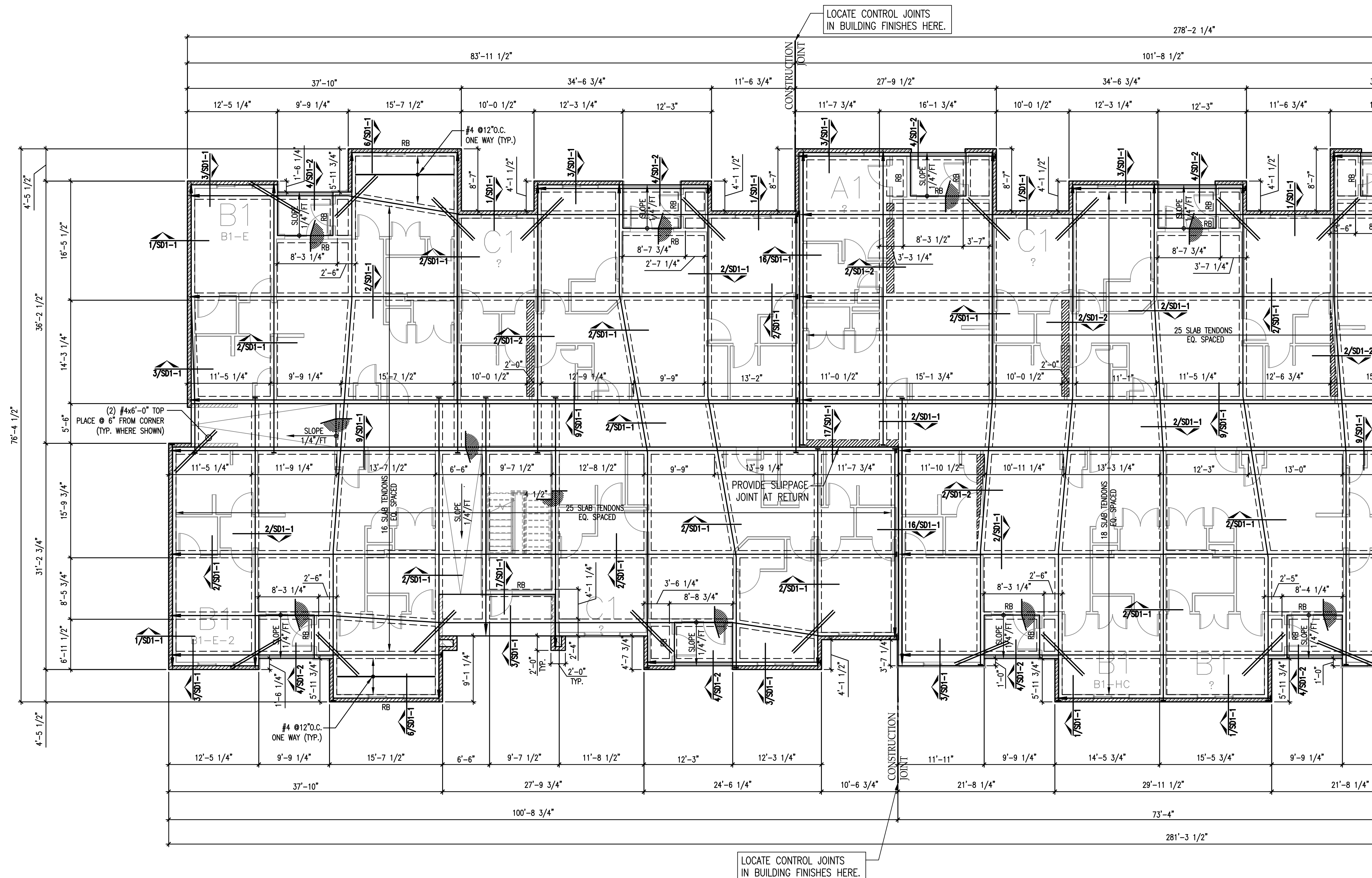
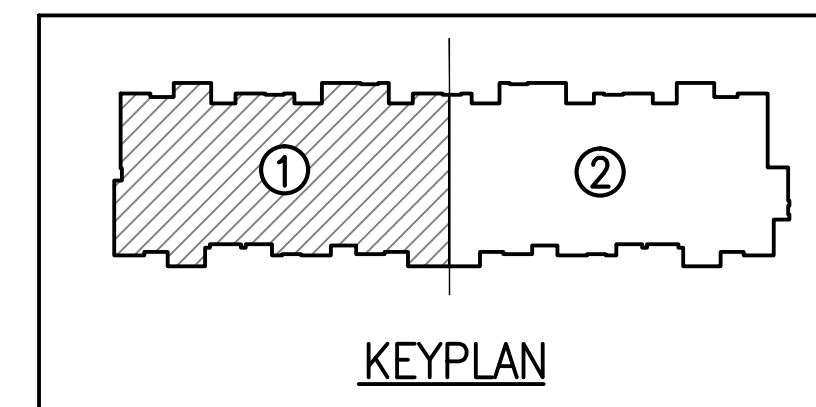
PLEASE REVIEW
ARCHITECTURAL DRGS. FOR
DIMENSIONS, SLOPES,
DROPS & DEPRESSIONS.

SLAB NOTE

74. THICK CONCRETE SLAB (UNLESS NOTED OTHERWISE)
ON MINIMUM TEN (10) MIL VAPOR BARRIER ON COMPACTED FILL SUBGRADE. THE VAPOR BARRIER SHALL CONFORM TO ASTM E1547, CLASS A, B, AND C, AND SHALL HAVE A MAXIMUM VAPOR PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96.
THE VAPOR BARRIER SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND ASTM E1643, STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR BARRIERS USED IN CONTACT WITH EARTH OR GRANULAR FILL UNDER CONCRETE SLABS. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION AND COMPACTION REQUIREMENTS.

GRADE BEAM SCHEDULE

PLAN MARK	PLAN SYM.	BEAM WIDTH	BEAM DEPTH	NOTES
THICKENED SLAB		RE-PLAN	12"	2-#5 BOTT.
REINF. BEAM		12"	30"	2-#5 BOTT. w/#3 TIES@EACH TEND
GRADE BEAM		12"	30"	1 TENDON






1 PARTIAL FOUNDATION PLAN - BUILDING TYPE IV (AREA #1)
SCALE: 1/8"=1'-0"

RE: SO-1, SO-2 & SO-5
FOR FOUNDATION NOTES
& SCHEDULE

PLEASE REVIEW
ARCHITECTURAL DRGS. FOR
DIMENSIONS, SLOPES,
DROPS & DEPRESSIONS.

SLAB NOTE

"4" THICK CONCRETE SLAB (UNLESS NOTED OTHERWISE)
 ON MINIMUM TEN (10) MIL VAPOR BARRIER ON COMPACTED FILL SUBGRADE. THE VAPOR BARRIER SHALL CONFORM TO ASTM E1745 CLASS A OR BETTER AND SHALL HAVE A MAXIMUM WATER VAPOR PERMEANCE OF 0.1 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96.
 THE VAPOR BARRIER SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND ASTM E1643, STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR BARRIERS USED IN CONTACT WITH EARTH OR GRANULAR FILL UNDER CONCRETE SLABS. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION AND COMPACTION REQUIREMENTS.

GRADE BEAM SCHEDULE				
PLAN MARK	PLAN SYM.	BEAM WIDTH	BEAM DEPTH	NOTES
THICKENED SLAB		RE:PLAN	12"	2-#5 BOTT.
REINF. BEAM		12"	30"	2-#5 BOTT.
GRADE BEAM		12"	30"	w/ #3 TIES EACH TEN
				1 TENDON

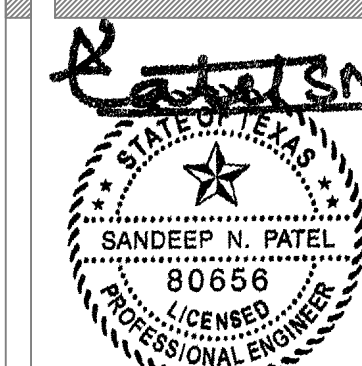
NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

PARTIAL FOUNDATION PLAN
BUILDING TYPE IV - AREA #1

[illegible]

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____



05/23/2019
Texas Registered Engineering Firm
E-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL - TRADE SECRETS

THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEDG LLC, AND SHOULD NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/MATERIAL.

UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO.

100

1

1

1

100

100

100

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

PARTIAL FOUNDATION PLAN
BUILDING TYPE IV - AREA #2

Sheet Title:

Table

Description


2000

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR: DATE: 05/23/2019

☐ SD 30%
☐ Coordination
☐ CD 95%
☐ CD 100%
☐ Pricing
☐ Bidding
☒ Permit
☐ Construction

Nabeel



STATE OF TEXAS
SANDEEP N. PATEL
80656
LICENSED
PROFESSIONAL ENGINEER

05/23/2019
Texas Registered Engineering Firm
F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL – TRADE SECRETS

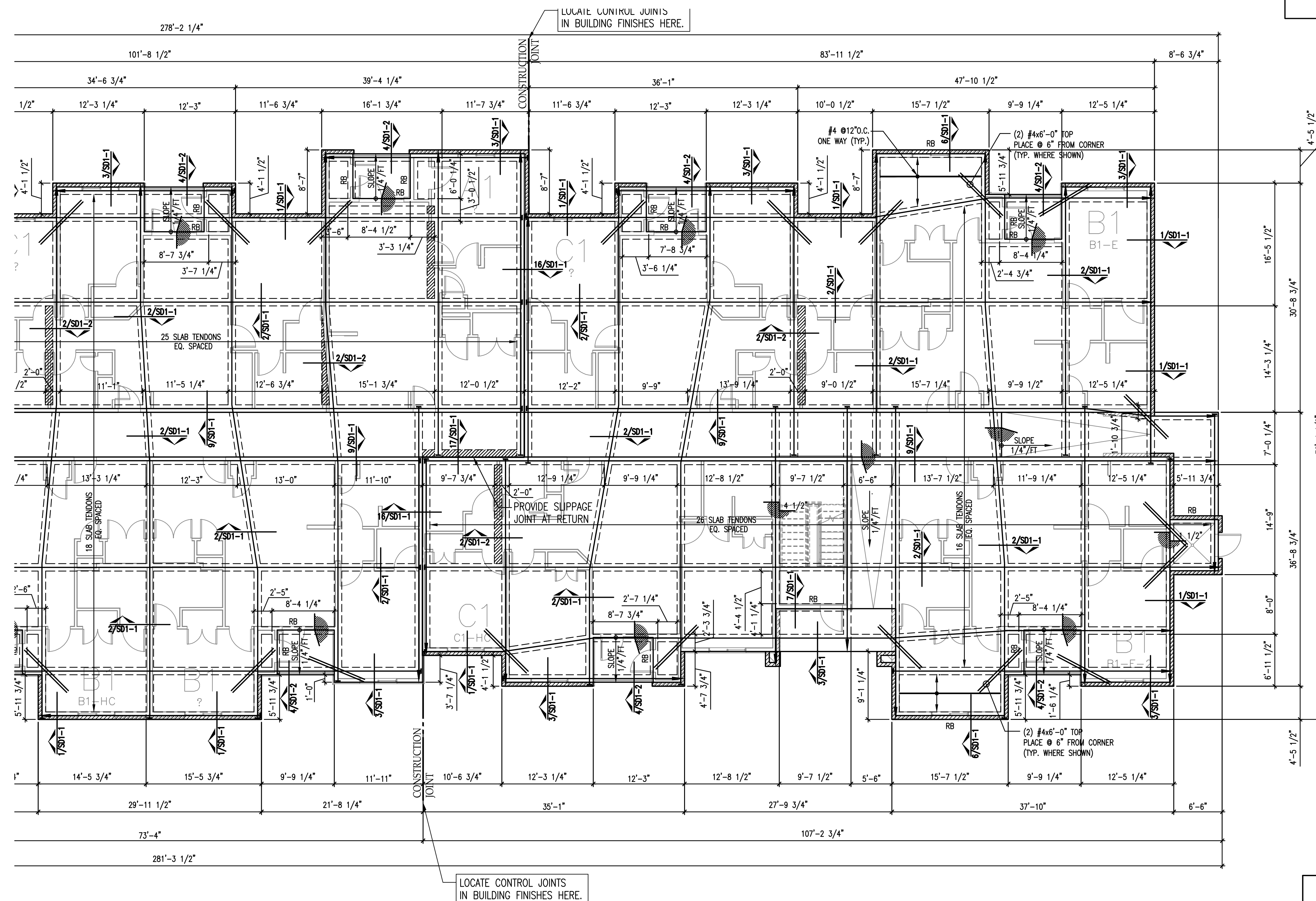
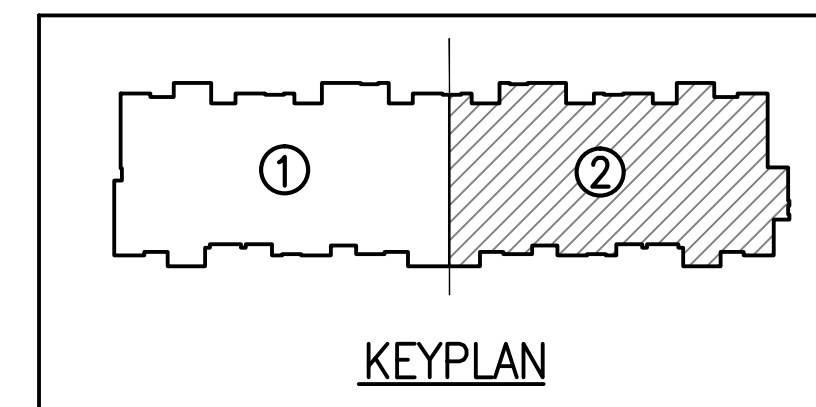
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEALS, LOGS, AND SHOULD NOT BE USED, DUPLICATED, OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/INVENTION.

UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO.

S1-4.2




PLA



SLAB NOTE

"4" THICK CONCRETE SLAB (UNLESS NOTED OTHERWISE)
ON MINIMUM TEN (10) MIL VAPOR BARRIER ON COMPACTED FILL
SUBGRADE. THE VAPOR BARRIER SHALL CONFORM TO ASTM
E1643 TYPE B, A Q-TEST OF 0.05 PERMS. HAVE A MAXIMUM WATER
VAPOR TRANSMIANCE OF 0.05 PERMS WHEN TESTED IN
ACCORDANCE WITH ASTM E96.
THE VAPOR BARRIER SHALL BE INSTALLED PER THE
MANUFACTURER'S RECOMMENDATIONS AND ASTM E1643,
STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR
BARRIERS USED IN CONTACT WITH EARTH OR GRANULAR FILL.
UNDER CONCRETE SLABS, REFER TO GEOTECHNICAL REPORT FOR
SUBGRADE PREPARATION AND COMPACTION REQUIREMENTS.

GRADE BEAM SCHEDULE

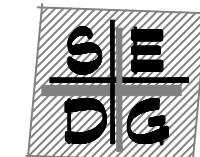
PLAN MARK	PLAN SYM.	BEAM WIDTH	BEAM DEPTH	NOTES
THICKENED SLAB		RE:PLAN	12"	2-#5 BOTT.
REINF. BEAM		12"	30"	2-#5 BOTT. w/#3 TIES@EACH TEND
GRADE BEAM		12"	30"	1 TENDON

RE: S0-1, S0-2 & S0-5
FOR FOUNDATION NOTES
& SCHEDULE

PLEASE REVIEW
ARCHITECTURAL DRGS. FOR
DIMENSIONS, SLOPES,
DROPS & DEPRESSIONS.

PARTIAL FOUNDATION PLAN - BUILDING TYPE IV (AREA #2)

SCALE: 1/8"=1'-0"



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5493

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS

AUSTIN, TEXAS

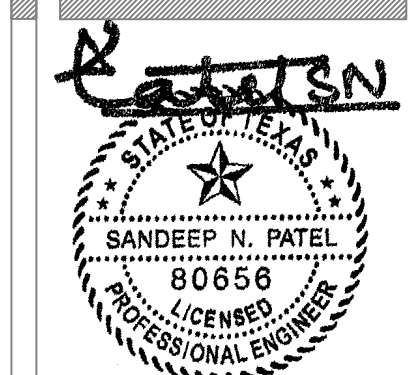
Austin, Texas
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

Sheet Title:
2ND FLOOR FRAMING PLAN - BUILDING TYPE I

[illegible]

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____



05/23/2019
Texas Registered Engineering Firm
E-19122

F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL - TRADE SECRETS

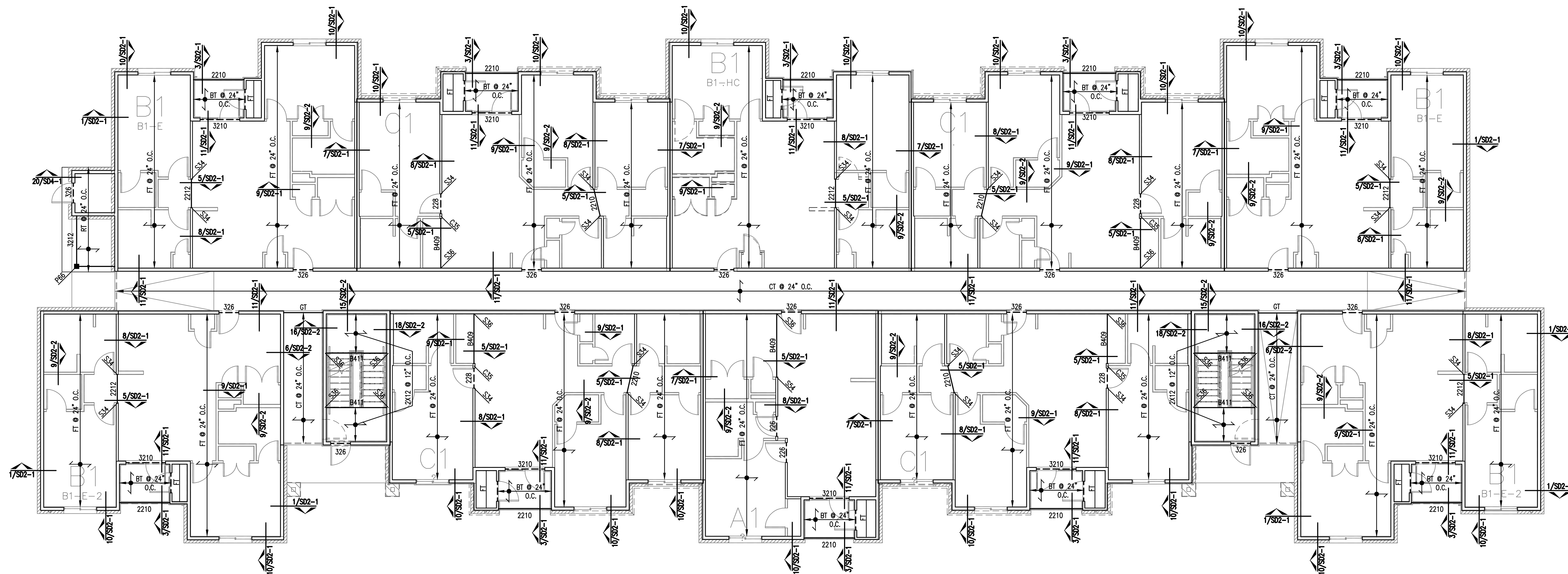
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEDG LLC, AND SHOULD NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/MATERIAL

UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO.

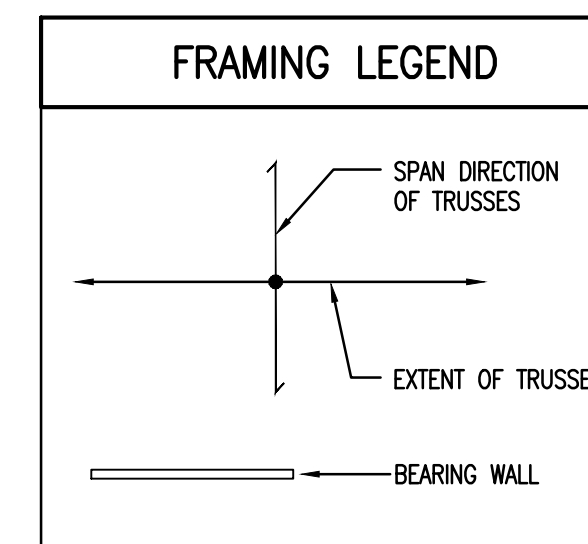
S2-1

PLAN



1 2ND FLOOR FRAMING PLAN – BLDG TYPE I
SCALE: 1/8"=1'-0"

SCALE: 1/8"=1'-0"



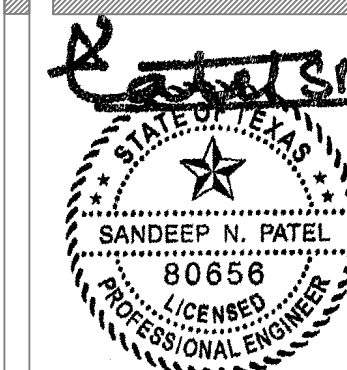
RE: S0-1, S0-3 & S0-5
FOR FRAMING NOTES
AND SCHEDULE

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]
set Title: **3RD FLOOR FRAMING PLAN - BUILDING TYPE I**

[illegible]

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____



05/23/2019
Texas Registered Engineering Firm
F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL – TRADE SECRETS

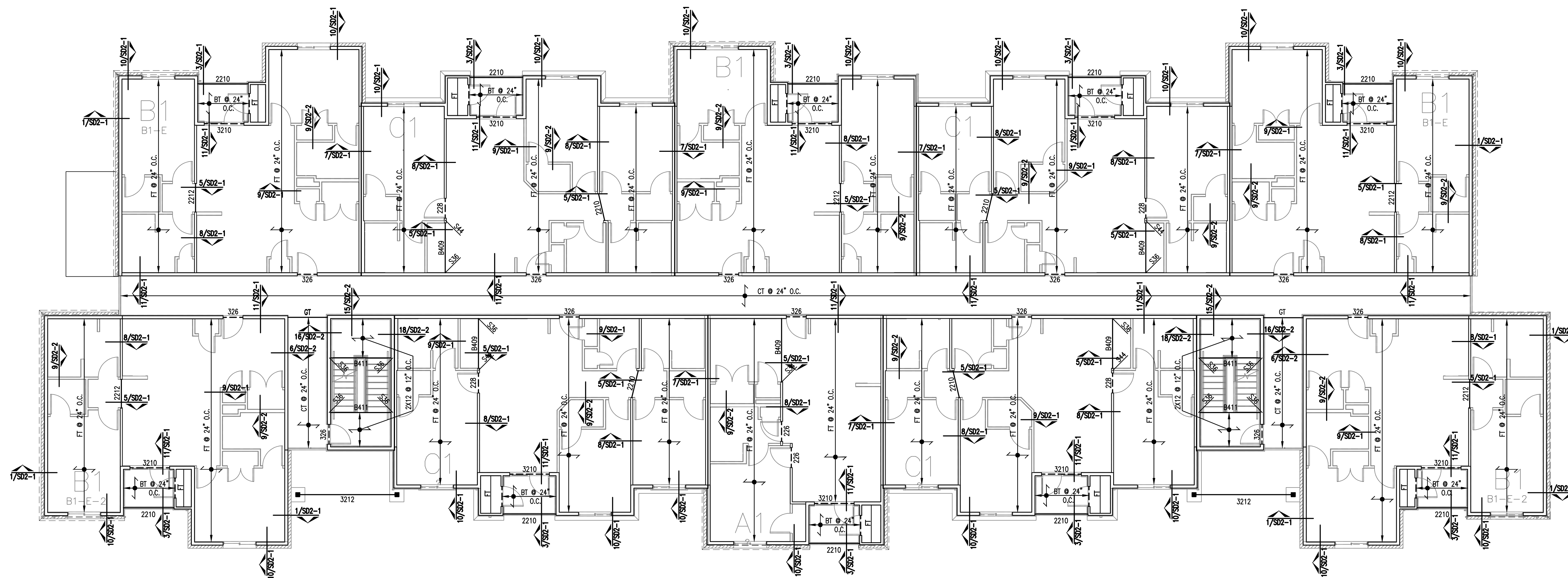
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SDC, LLC, AND SHOULD NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/INVENTION.

UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREIN IS STRICTLY FORBIDDEN

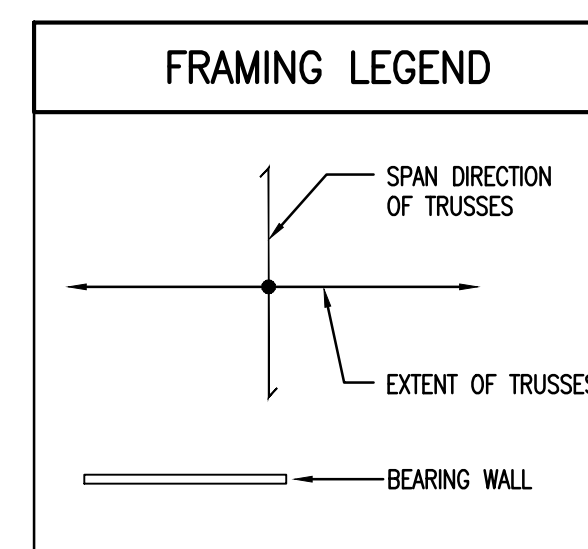
SHEET NO.

S2-1A

PLAN



1 3RD FLOOR FRAMING PLAN - BLDG TYPE I
SCALE: 1/8"=1'-0"



RE: S0-1, S0-3 & S0-5
FOR FRAMING NOTES
AND SCHEDULE

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

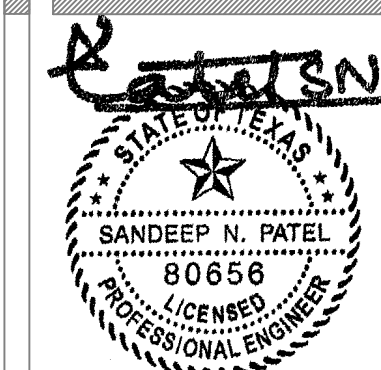
Title: **2ND FLOOR FRAMING PLAN - BUILDING TYPE II**

Sheet: **202**

[illegible]

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____



05/23/2019
Texas Registered Engineering Firm
F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL - TRADE SECRETS

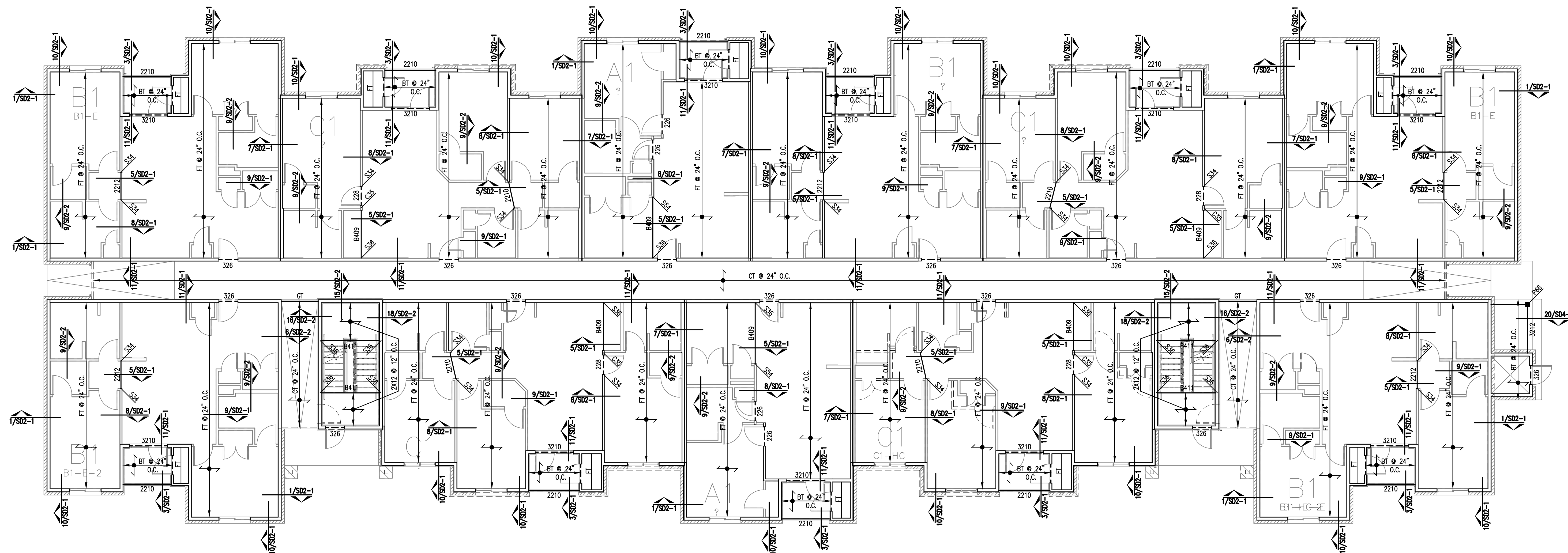
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SED LLC, AND SHOULD NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/MATERIAL.

UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

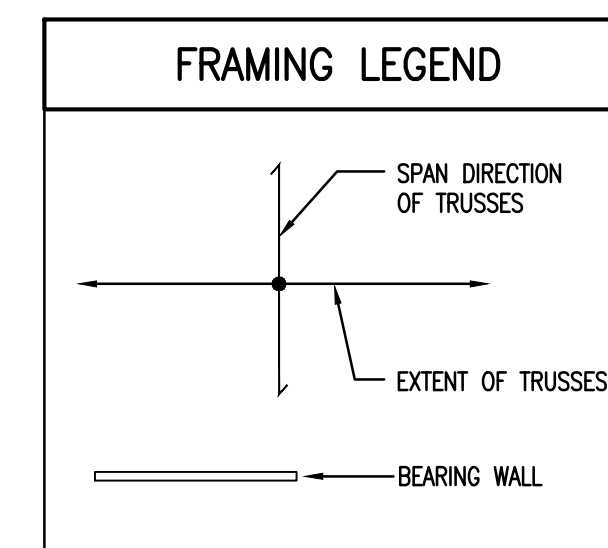
SHEET NO.

S2-2

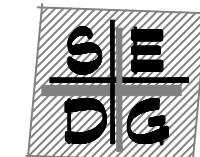
PLAN



1 2ND FLOOR FRAMING PLAN – BUILDING TYPE II
SCALE: 1/8"=1'-0"



RE: SO-1, SO-3 & SO-5
FOR FRAMING NOTES
AND SCHEDULE



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

Sheet Title:

Sheet Title: **3RD FLOOR FRAMING PLAN - BUILDING TYPE II**

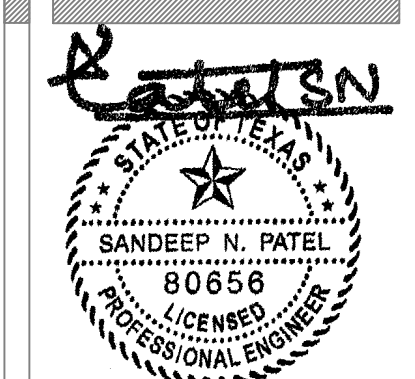
[illegible]

Drawn By: HT
Checked By: DVH/ZA

Drawing Scale: As Noted	Project No. 136-089
----------------------------	------------------------

ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____

<input type="checkbox"/> Bidding	
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	



05/23/2019
Texas Registered Engineering Firm

F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL - TRADE SECRETS

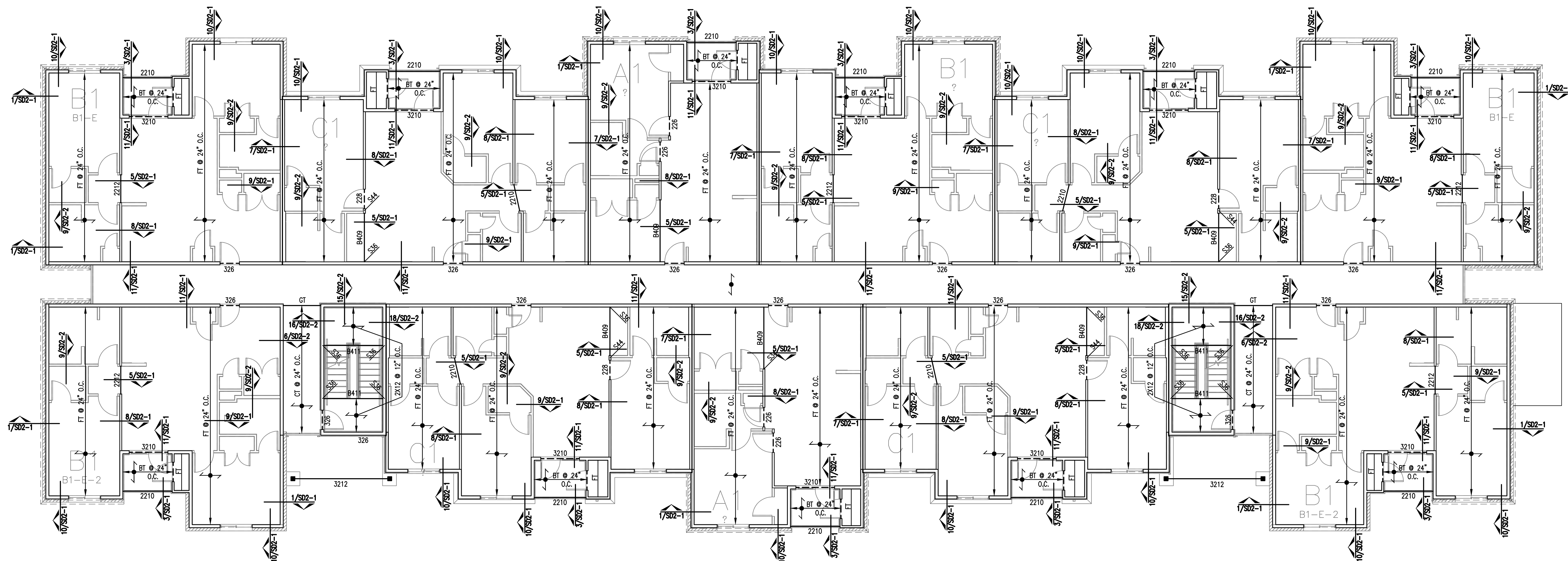
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEDG LLC, AND SHOULD NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/MATERIAL.

UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO.

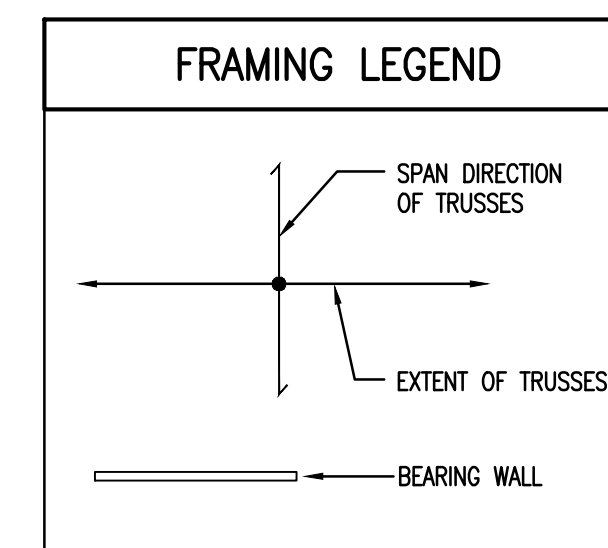
S2-2A

PLAN

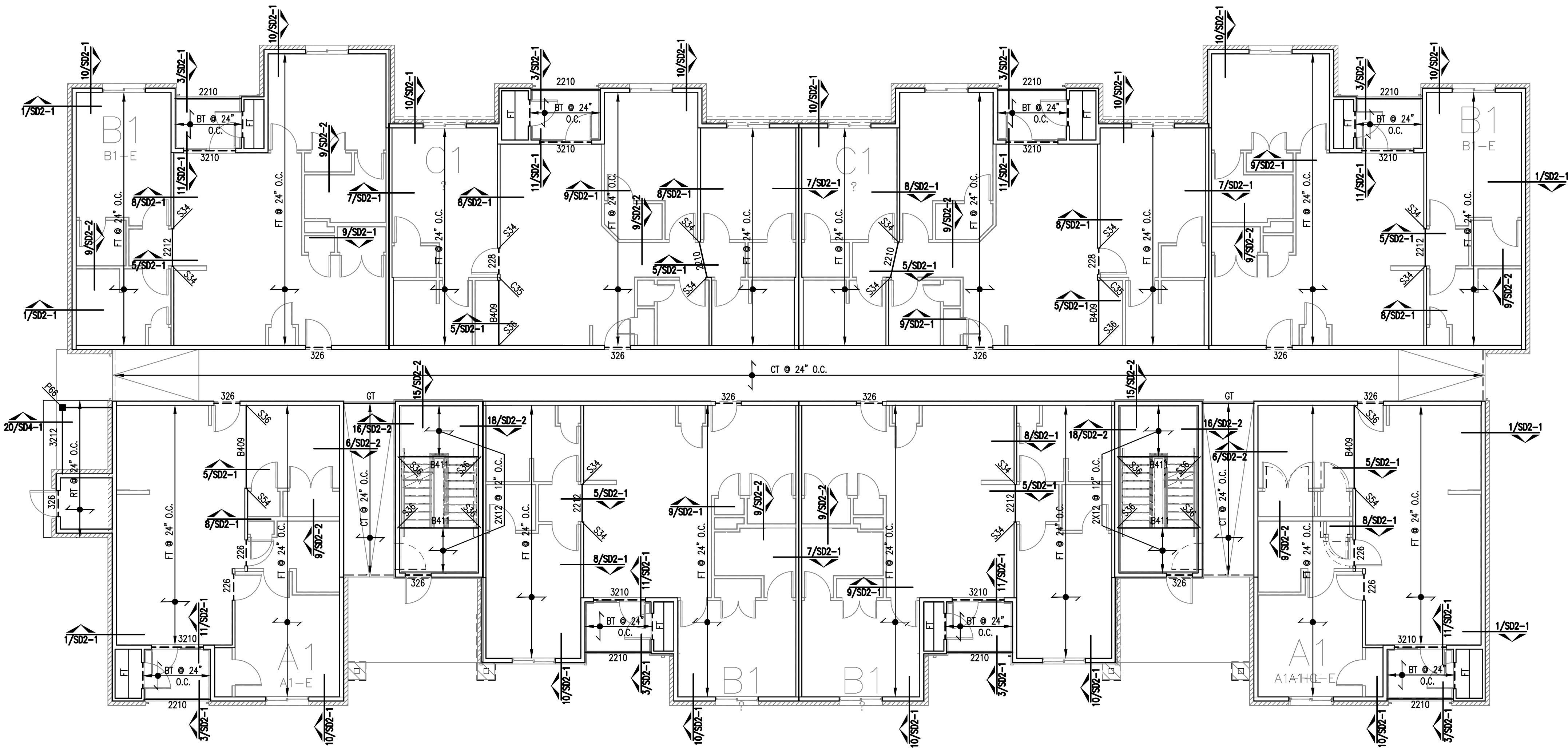


1 3RD FLOOR FRAMING PLAN – BUILDING TYPE II
SCALE: 1/8"=1'-0"

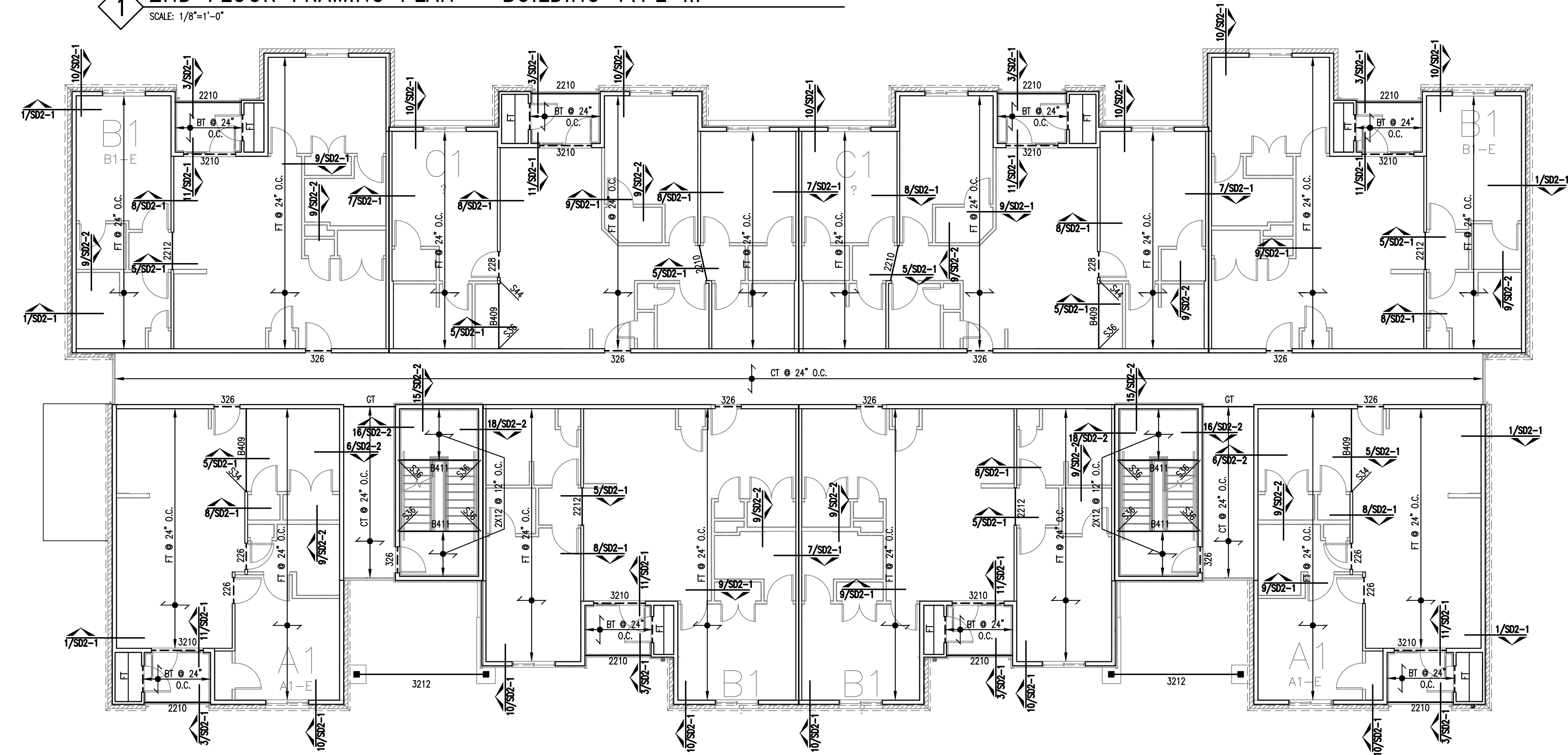
SCALE: 1/8"=1'-0"



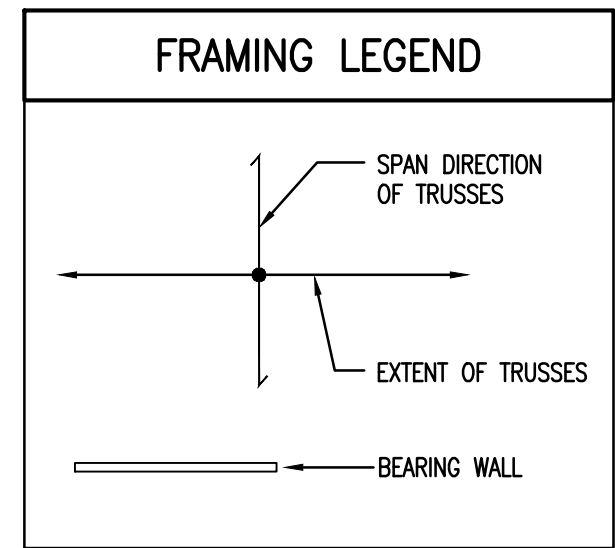
RE: SO-1, SO-3 & SO-5
FOR FRAMING NOTES
AND SCHEDULE



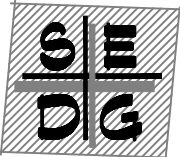
1 2ND FLOOR FRAMING PLAN - BUILDING TYPE III
SCALE: 1/8"=1'-0"



2 3RD FLOOR FRAMING PLAN - BUILDING TYPE III
SCALE: 1/8"=1'-0"



RE: S0-1, S0-3 & S0-5
FOR FRAMING NOTES
AND SCHEDULE



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]
2ND AND 3RD FLOOR FRAMING PLAN
BUILDING TYPE III

Sheet Title:

Rev.

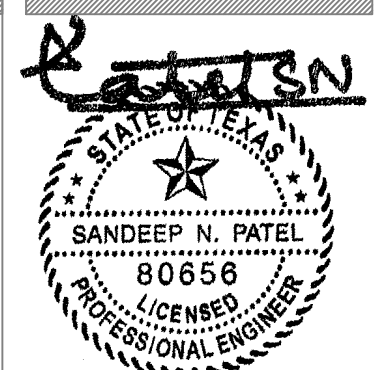
Date

Description

Rev.

Drawn By: HT
Checked By: DWH/ZA
Drawing Scale: As Noted
Project No. 136-089

ISSUED FOR:
SD 30%
Coordination
CD 95%
CD 100%
Pricing
Bidding
Permit
Construction
DATE:
05/23/2019



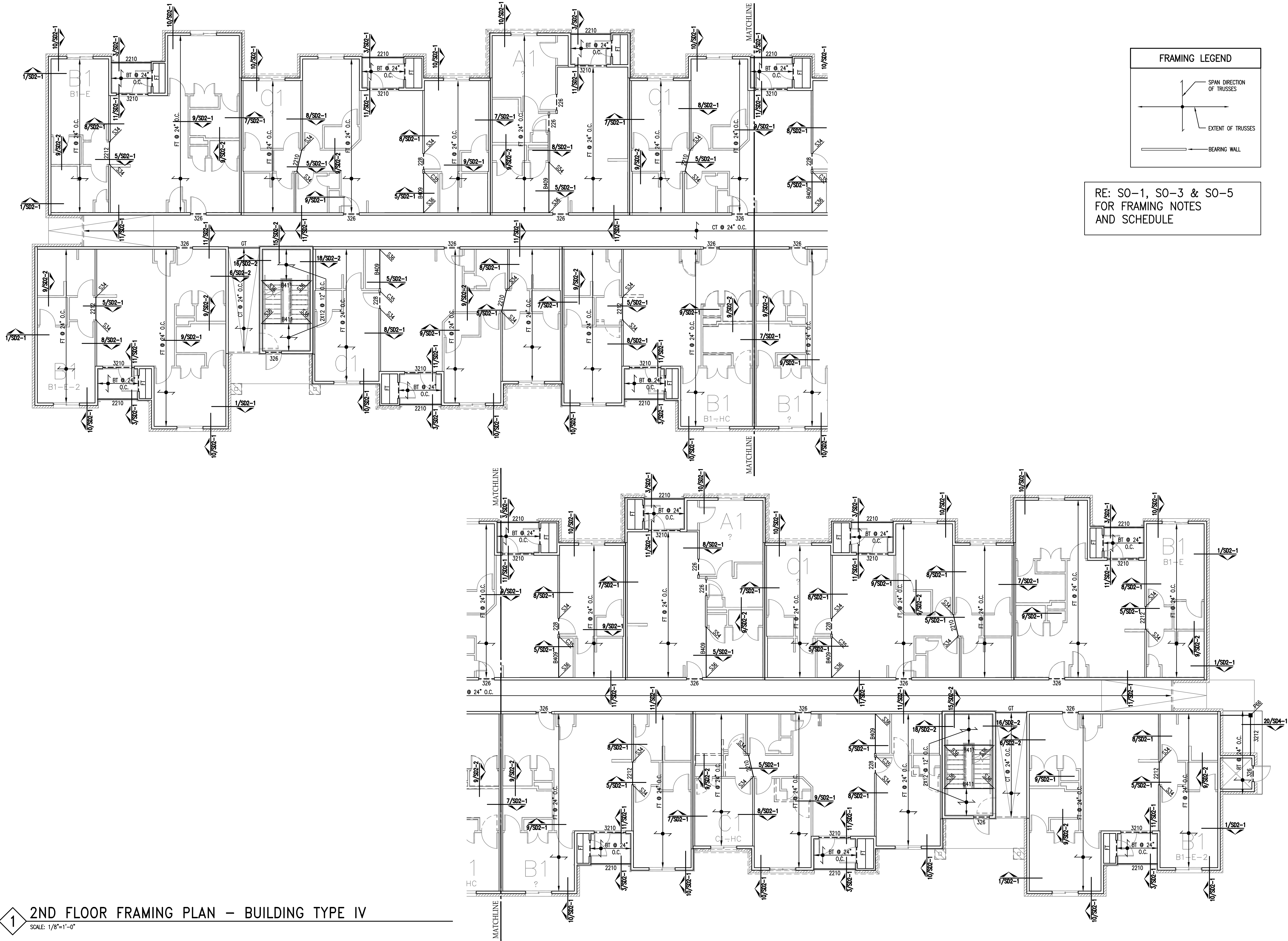
05/23/2019
Texas Registered Engineering Firm
F-19122
THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SDG LLC AND SHOULD NOT BE REPRODUCED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A DESIGN PROCESS.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN.

SHEET NO.

S2-3

PLAN

1 2ND FLOOR FRAMING PLAN - BUILDING TYPE IV
SCALE: 1/8"=1'-0"



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

Sheet Title:
2ND FLOOR FRAMING PLAN - BUILDING TYPE IV

Drawn By:
HT
Drawing Scale:
As Noted

Checked By:
DWH/ZA
Project No.
136-089

ISSUED FOR:
☐ SD 30%
☐ Coordination
☐ CD 95%
☐ CD 100%
☐ Pricing
☐ Bidding
☒ Permit
☐ Construction

DATE:
05/23/2019

SEAL

STATE OF TEXAS

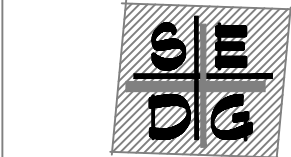
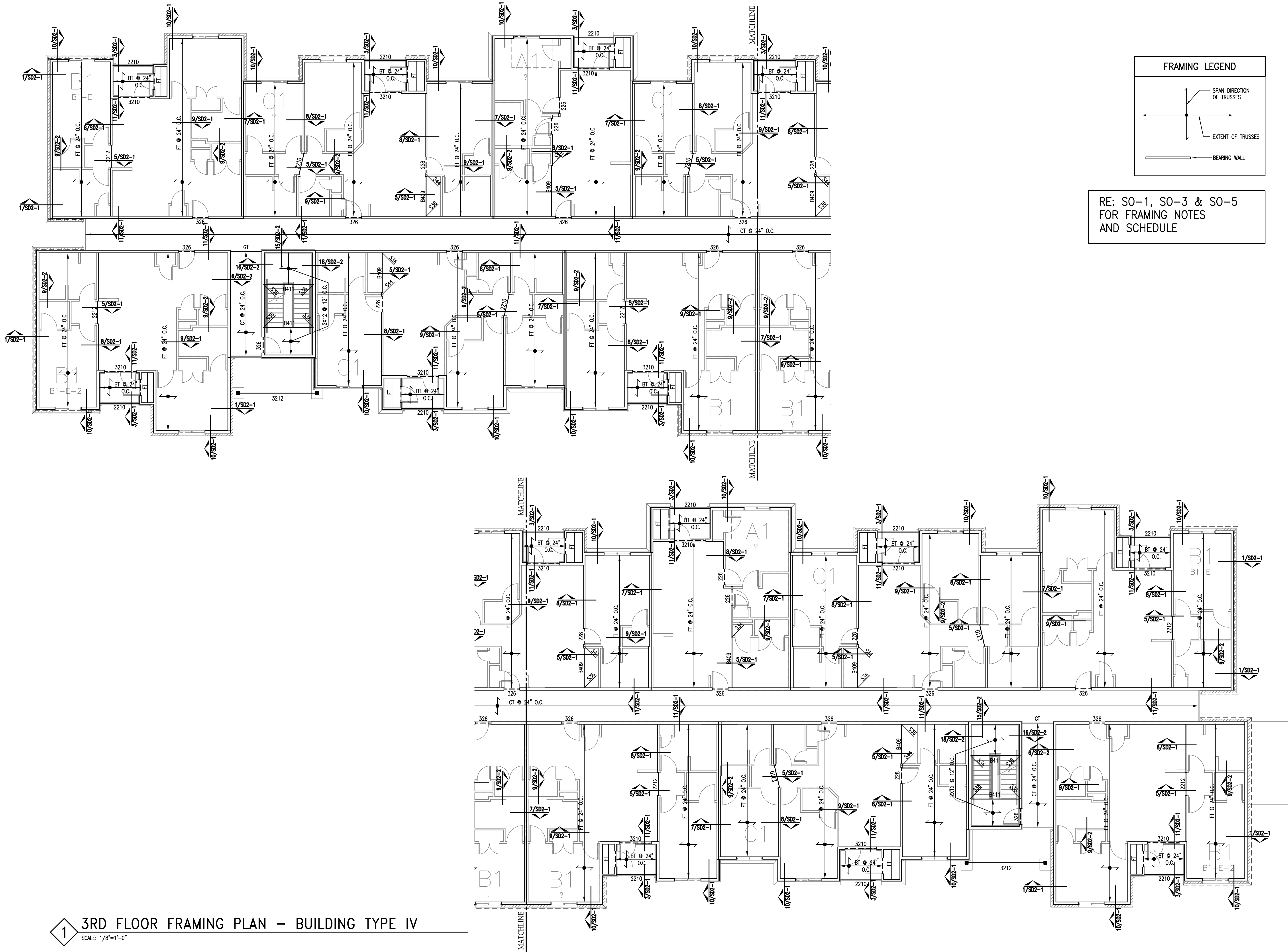
SANDEEP N. PATEL
80656
PROFESSIONAL ENGINEER

05/23/2019
Texas Registered Engineering Firm
F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SDG LLC AND SHOULD NOT BE REPRODUCED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A DESIGN PROCESS/ANALYSIS.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY PROHIBITED.

SHEET NO.
S2-4
PLAN



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

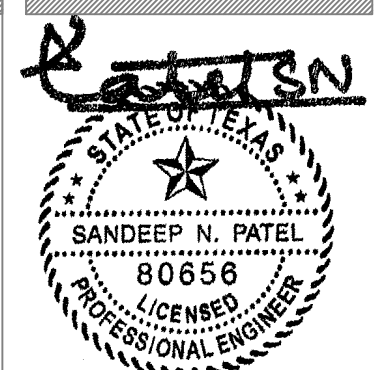
NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]
Sheet Title: **3RD FLOOR FRAMING PLAN - BUILDING TYPE IV**

Rev.	Description	Date

Drawn By: HT
Checked By: DWH/ZA
Drawing Scale: As Noted
Project No. 136-089

ISSUED FOR: SD 3036
Coordination
CD 95%
CD 100%
Pricing
Siding
Permit
Construction

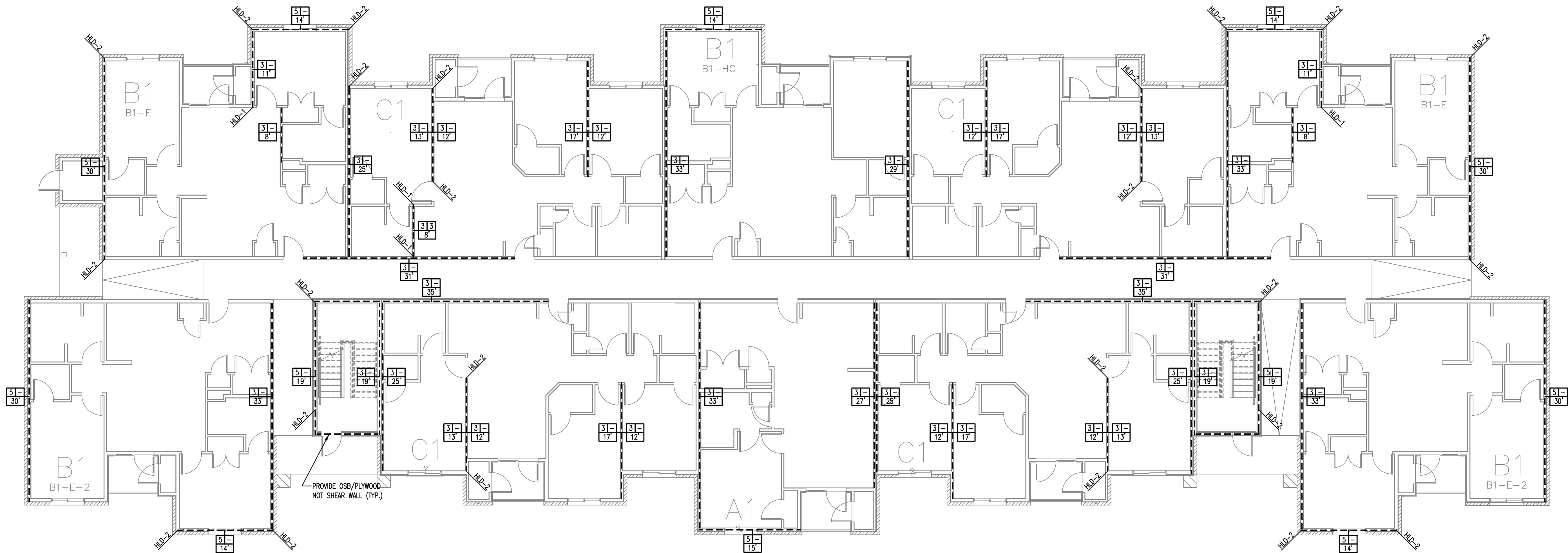
DATE: 05/23/2019



05/23/2019
Texas Registered Engineering Firm
F-19122
THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SDG LLC AND SHOULD NOT BE REPRODUCED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A DESIGN PROCESS/ANALYSIS.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN.

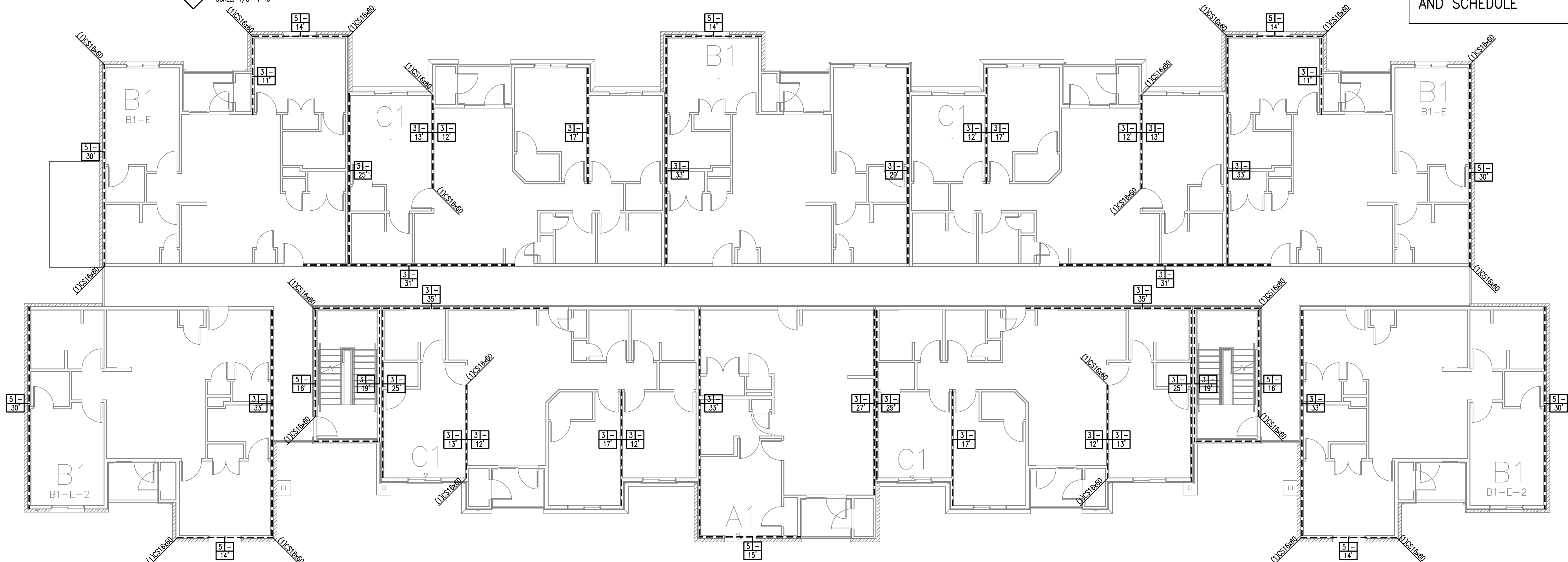
SHEET NO.
S2-4A
PLAN

G:\\$136 - KELLY GROSSMAN\136-089 Norwood Apartments\Working Drawings\Structural Drawings\S3-1.dwg Plotted: May 23, 2019 - 9:31 AM by Hao Tran

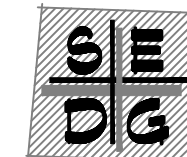


1 1ST FLOOR SHEARWALL PLAN - BUILDING TYPE I
SCALE: 1/8"=1'-0"

RE: S0-1, S0-3 & S0-5
FOR SHEARWALL NOTES
AND SCHEDULE



2 2ND FLOOR SHEARWALL PLAN - BUILDING TYPE I
SCALE: 1/8"=1'-0"



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]
1ST AND 2ND FLOOR SHEARWALL PLAN
BUILDING TYPE I

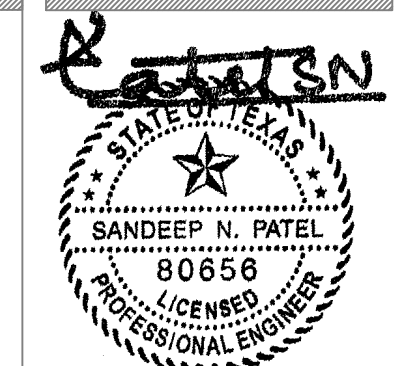
Sheet Title:

Date

Description

Rev.

Drawn By: HT
Checked By: DWH/ZA
Drawing Scale: As Noted
Project No. 136-089
ISSUED FOR: DATE:
☐ SD 30%
☐ Coordination
☐ CD 95%
☐ CD 100%
☐ Pricing
☐ Bidding
☐ Permit
☐ Construction
05/23/2019



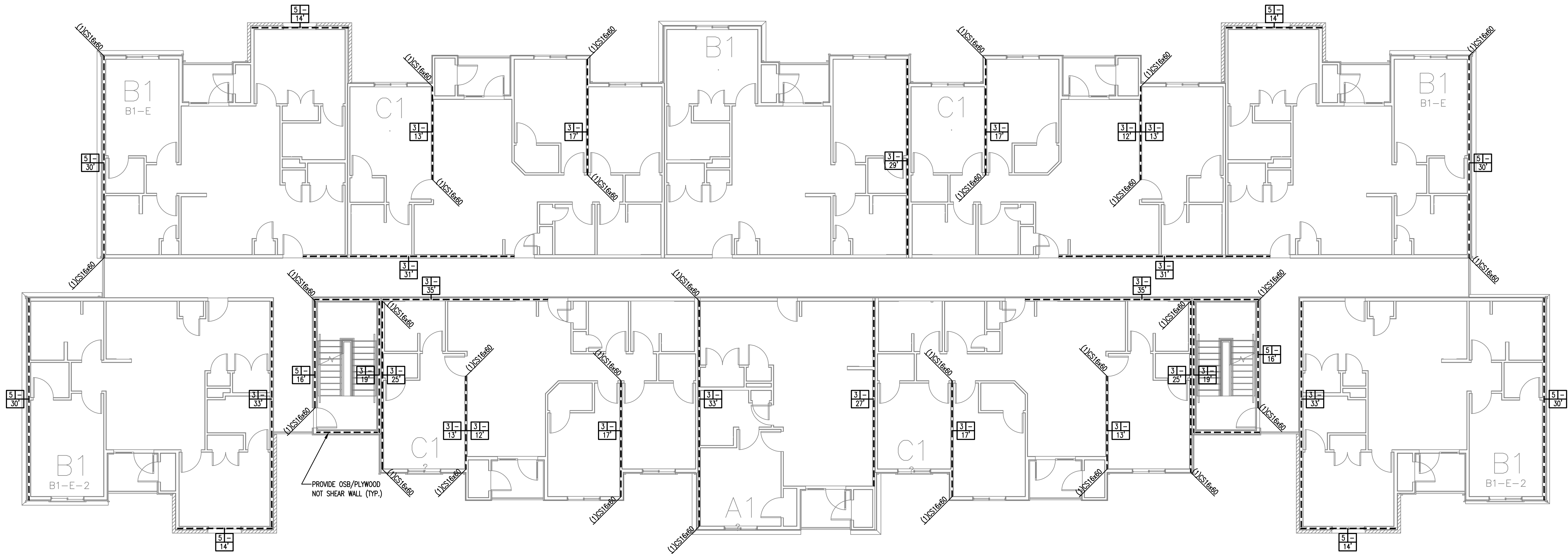
05/23/2019
Texas Registered Engineering Firm
F-19122
THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEVERE PENALTIES FOR UNAUTHORIZED DISCLOSURE OR REPRODUCTION WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT/ENGINEER.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY PROHIBITED.

SHEET NO.

S3-1

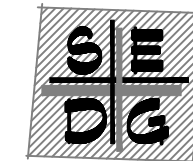
PLAN

G:\136 - KELLY GROSSMAN\136-089 Norwood Apartments\Working Drawings\SS3-1A.dwg Plotted: May 23, 2019 - 9:31 AM by Hao Tran



1 3RD FLOOR SHEARWALL PLAN - BUILDING TYPE I
SCALE: 1/8"=1'-0"

RE: S0-1, S0-3 & S0-5
FOR SHEARWALL NOTES
AND SCHEDULE



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]
3RD FLOOR SHEARWALL PLAN
BUILDING TYPE I

Sheet Title:

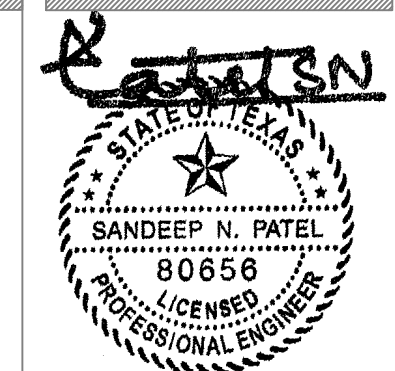
Date

Description

Rev.

Drawn By: HT
Checked By: DWH/ZA
Drawing Scale: As Noted
Project No. 136-089

ISSUED FOR: DATE:
☐ SD 30%
☐ Coordination
☐ CD 95%
☐ CD 100%
☐ Pricing
☐ Bidding
☒ Permit 05/23/2019
☐ Construction



05/23/2019
Texas Registered Engineering Firm
F-19122

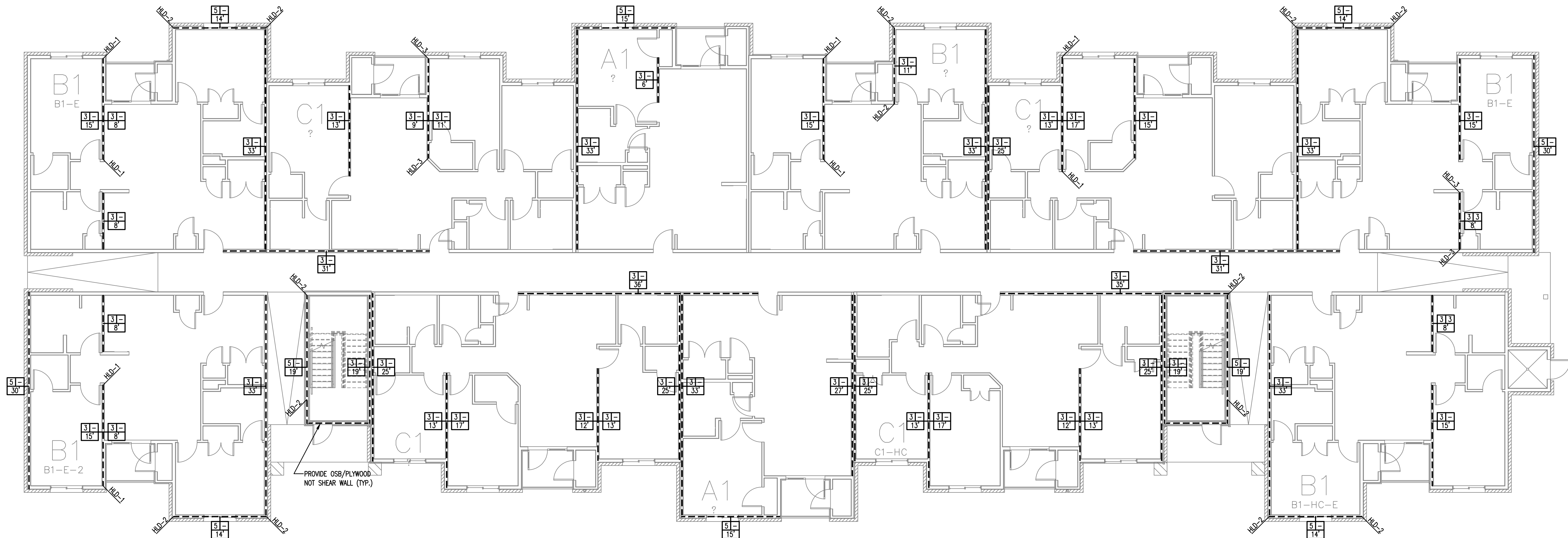
THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SDEG LLC AND SHOULD NOT BE REPRODUCED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A DESIGN PROCESSING PROCESS/MATERIAL.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN.

SHEET NO.

S3-1A

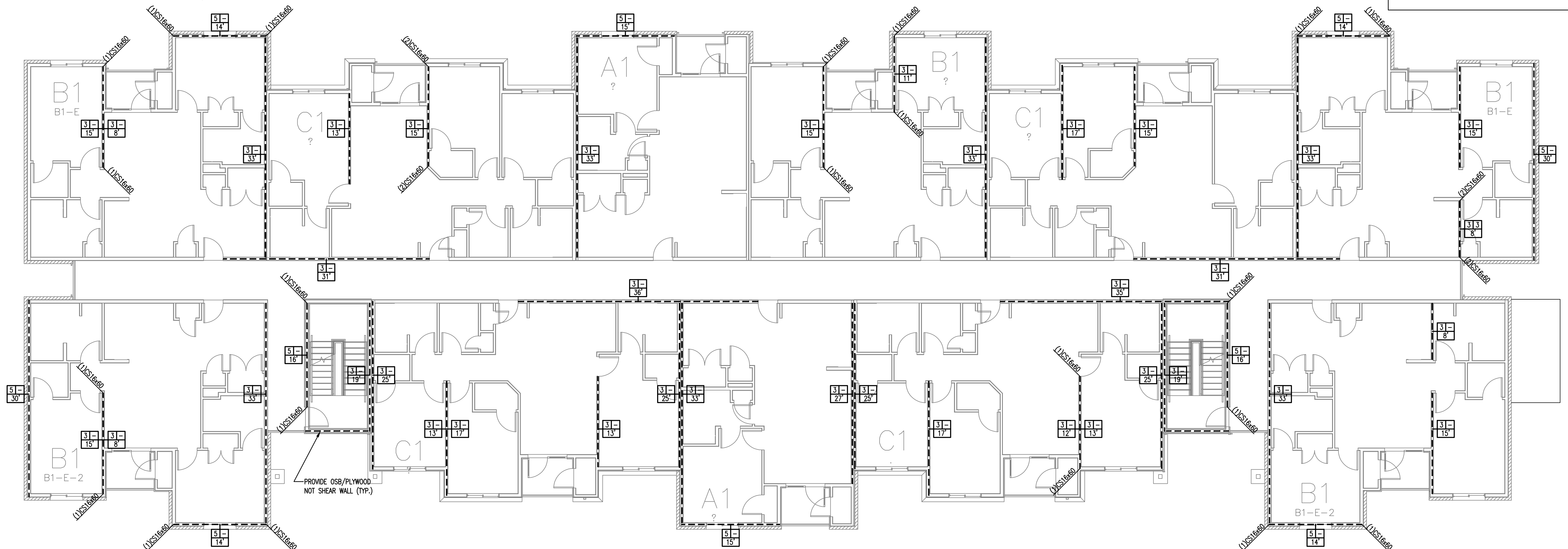
PLAN

G:\\$136 - KELLY GROSSMAN\136-089 Norwood Apartments\Working Drawings\Structural Drawings\SS3-2.dwg Plotted: May 23, 2019 - 9:31 AM by Hao Tran

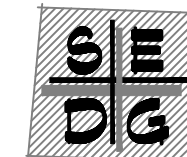


1 1ST FLOOR SHEARWALL PLAN - BUILDING TYPE II
SCALE: 1/8"=1'-0"

RE: S0-1, S0-3 & S0-5
FOR SHEARWALL NOTES
AND SCHEDULE



2 2ND FLOOR SHEARWALL PLAN - BUILDING TYPE II
SCALE: 1/8"=1'-0"



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]
1ST AND 2ND FLOOR SHEARWALL PLAN
BUILDING TYPE II

Sheet Title:

Date

Description

Rev.

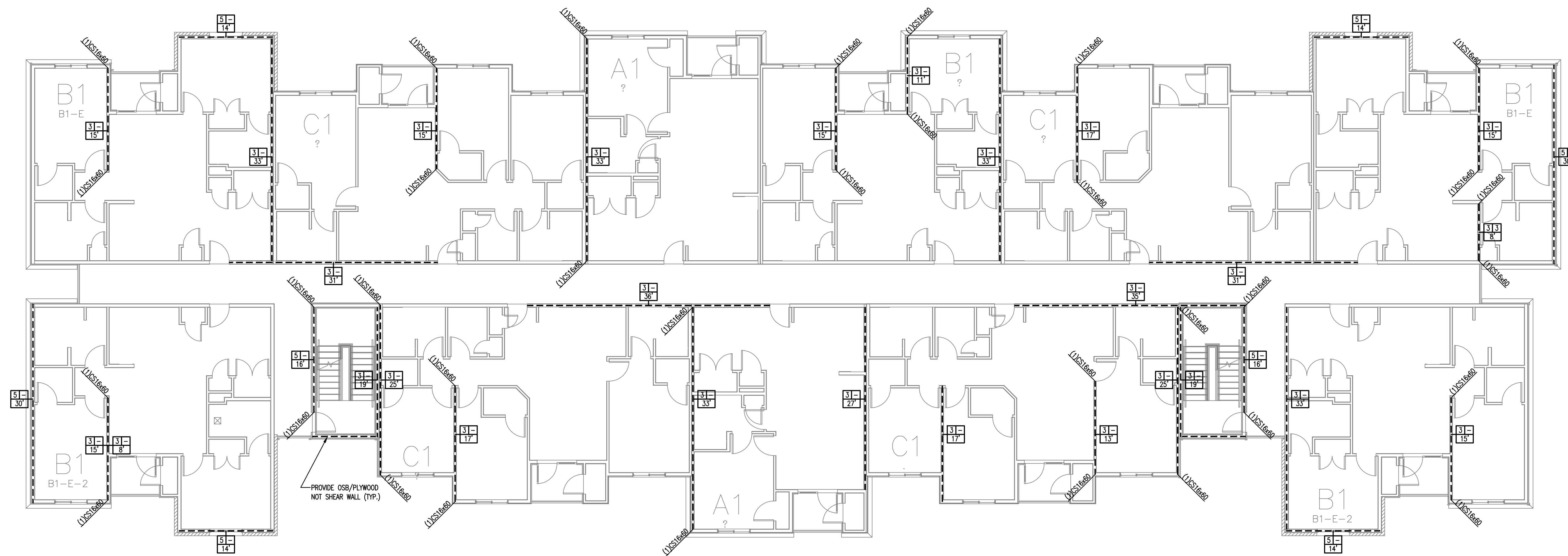
Drawn By: HT
Checked By: DWH/ZA
Drawing Scale: As Noted
Project No. 136-089
ISSUED FOR: SD 30%
Coordination
CD 95%
CD 100%
Pricing
Bidding
Permit
Construction
DATE: 05/23/2019

05/23/2019
Texas Registered Engineering Firm
F-19122
THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEVERAL AND SHALL NOT BE REPRODUCED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A DESIGN PROCESS/ANALYSIS.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN.

SHEET NO.

S3-2

PLAN



1 3RD FLOOR SHEARWALL PLAN – BUILDING TYPE II
SCALE: 1/8"=1'-0"

RE: S0-1, S0-3 & S0-5
FOR SHEARWALL NOTES
AND SCHEDULE

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089
ISSUED FOR:	
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____

05/23/2019
Texas Registered Engineering F

F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL - TRADE SECRETS

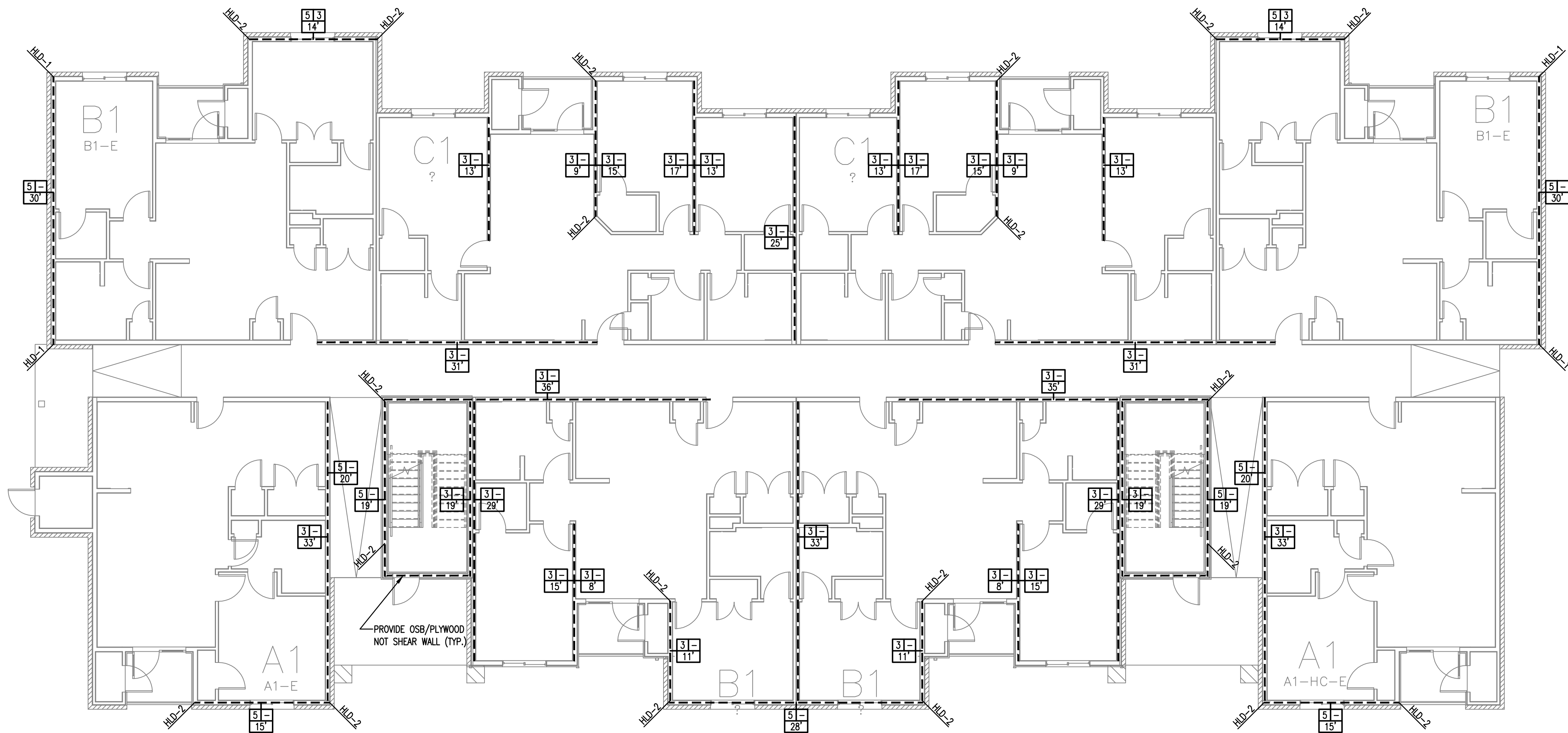
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEDC LLC, AND SHOULD NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/WATERLAL

UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO.

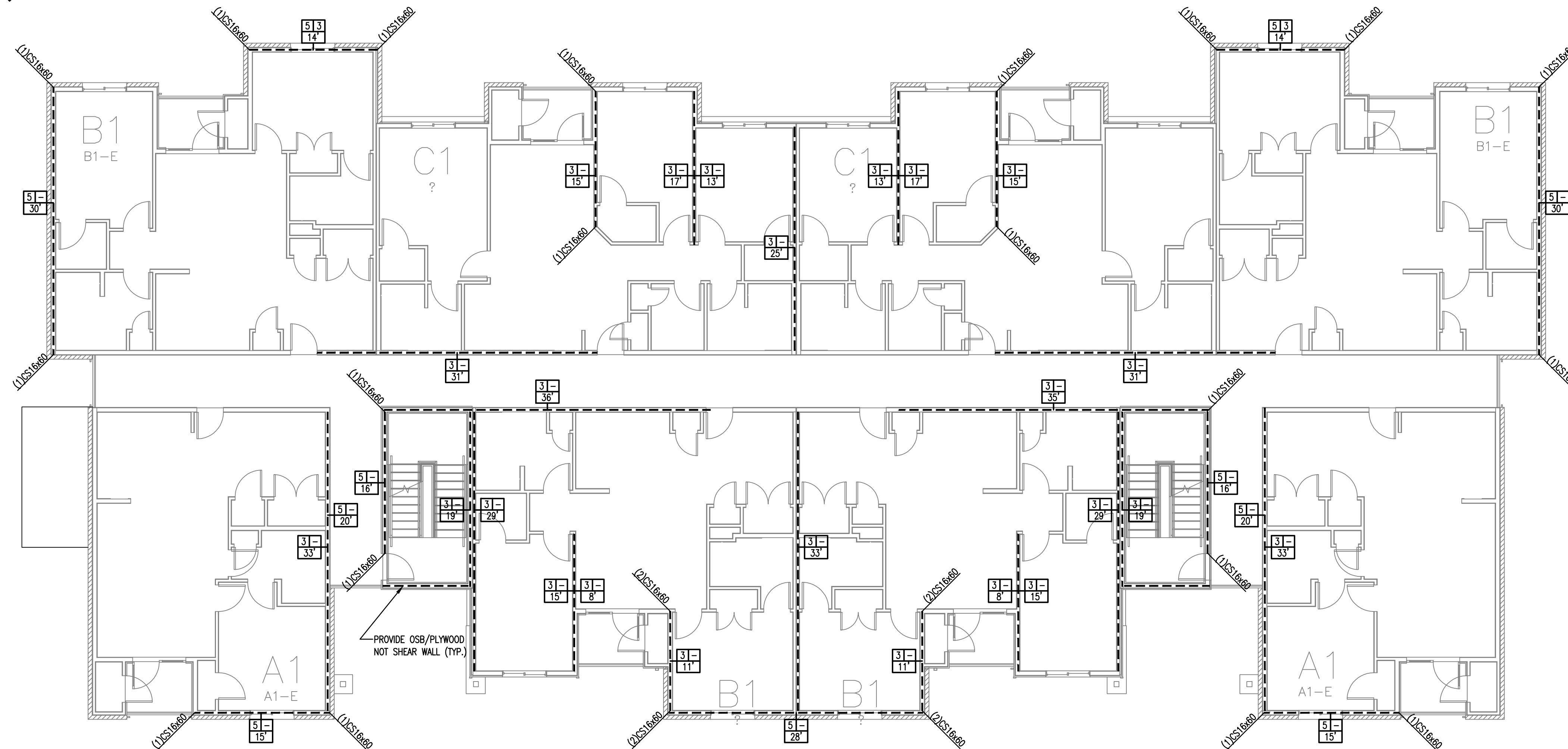
S3-2A

G:\136 - KELLY GROSSMAN\136-089 Norwood Apartments\Working Drawings\Structural Drawings\S3-3.dwg Plotted: May 23, 2019 - 9:31 AM by Hao Tran

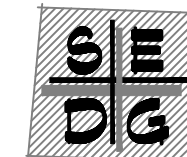


1 1ST FLOOR SHEARWALL PLAN - BUILDING TYPE III
SCALE: 1/8"=1'-0"

RE: S0-1, S0-3 & S0-5
FOR SHEARWALL NOTES
AND SCHEDULE



2 2ND FLOOR SHEARWALL PLAN - BUILDING TYPE III
SCALE: 1/8"=1'-0"



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]
1ST AND 2ND FLOOR SHEARWALL PLAN
BUILDING TYPE III

Sheet Title:

Date

Description

Rev.

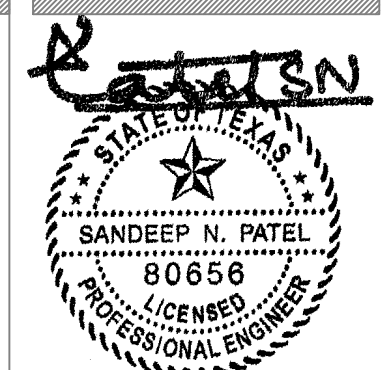
Drawn By: HT

Checked By: DWH/ZA

Drawing Scale: As Noted

Project No. 136-089

ISSUED FOR: DATE:
☐ SD 30%
☐ Coordination
☐ CD 95%
☐ CD 100%
☐ Pricing
☐ Bidding
☒ Permit
☐ Construction 05/23/2019



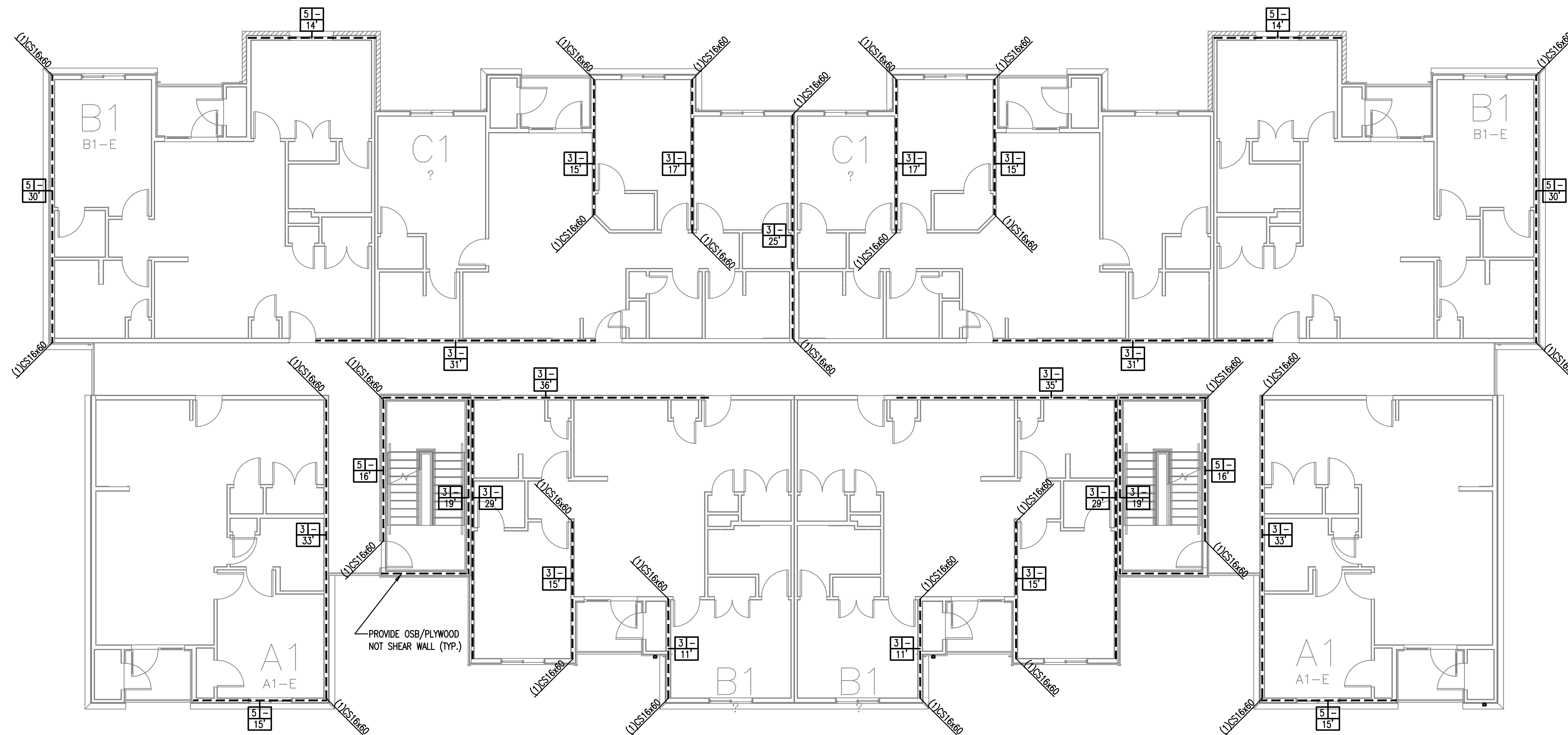
05/23/2019
Texas Registered Engineering Firm

F-19122
THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEED USE AND SHOULD NOT BE REPRODUCED OR DISCLOSED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE INFORMATION HEREIN IS PART OF A DESIGN PROCESS/ANALYSIS.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY PROHIBITED.

SHEET NO.

S3-3

PLAN



1 3RD FLOOR SHEARWALL PLAN – BUILDING TYPE III
SCALE: 1/8"=1'-0"

RE: SO-1, SO-3 & SO-5
FOR SHEARWALL NOTES
AND SCHEDULE

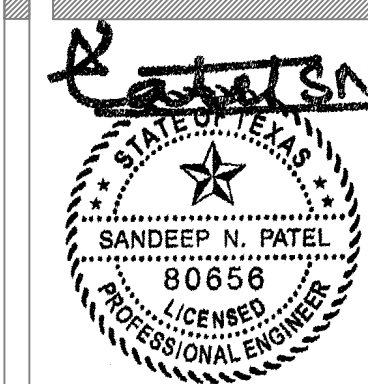
NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

Sheet Title:
**3RD FLOOR SHEARWALL PLAN
BUILDING TYPE III**

[illegible]

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____



05/23/2019
Texas Registered Engineering Firm

F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

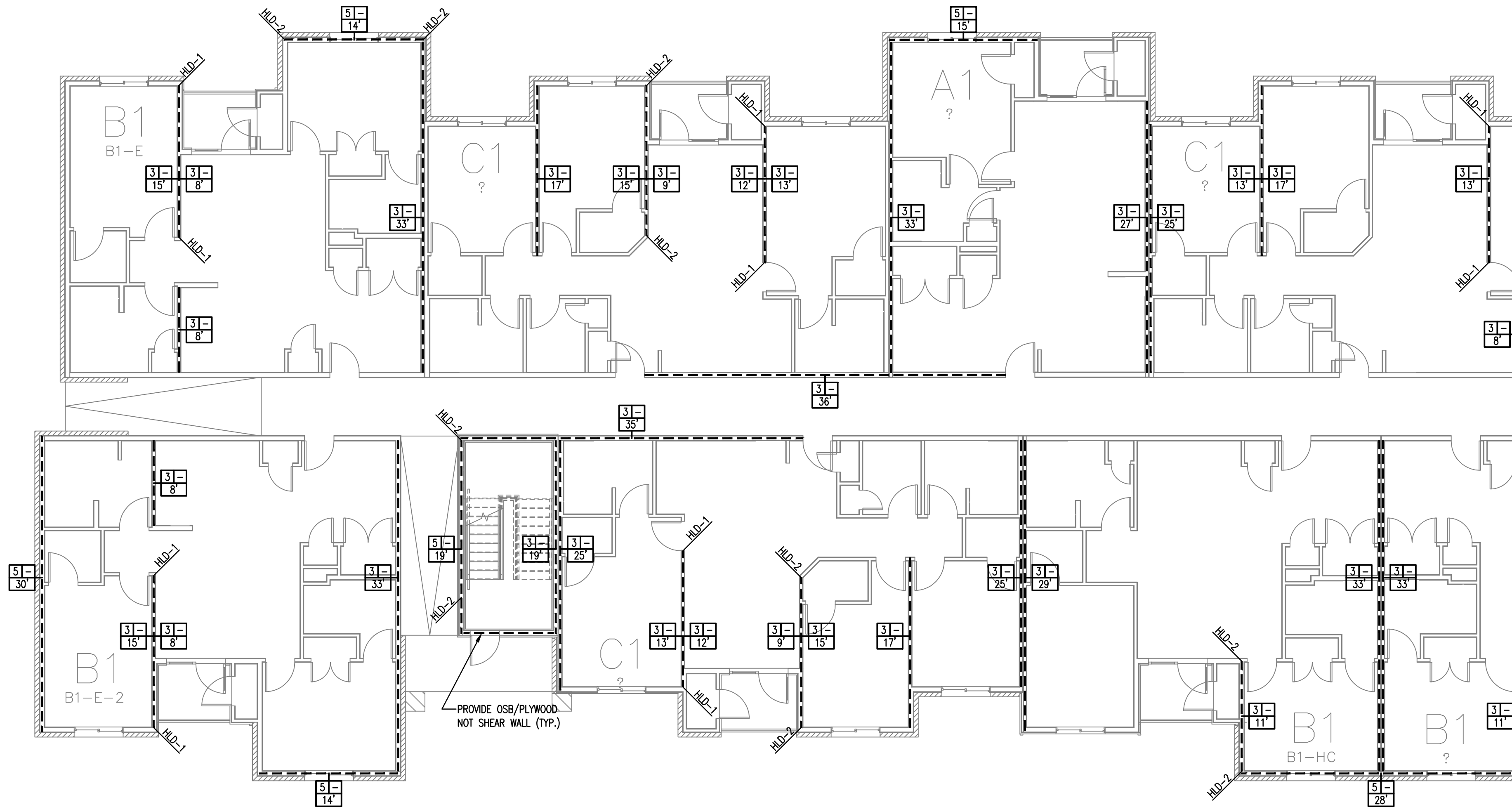
CONFIDENTIAL - TRADE SECRETS

THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEGG LLC, AND SHOULD NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/MATERIAL

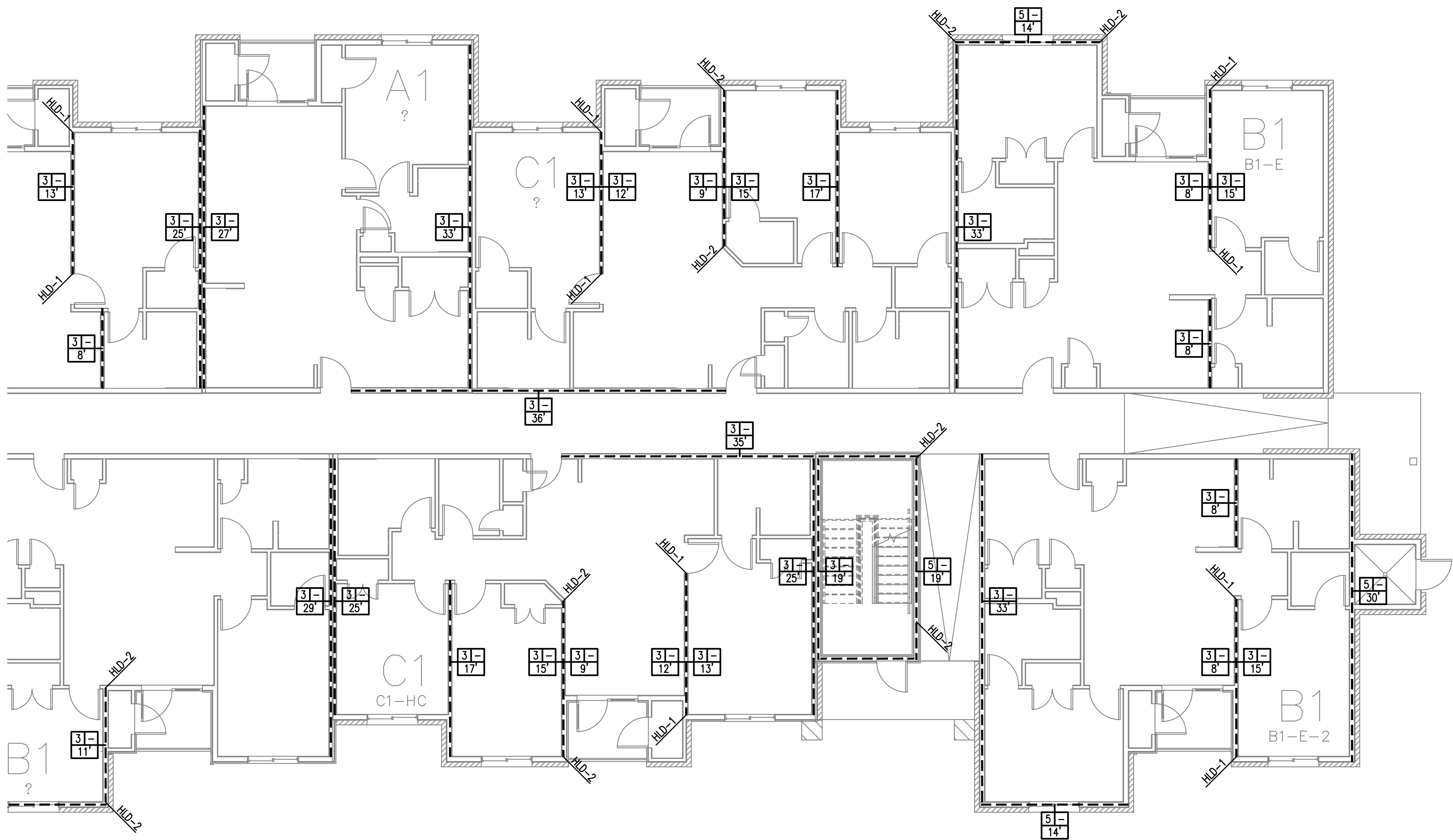
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO.
S3-3A
PLAN

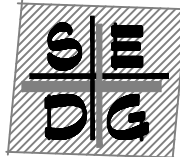
G:\S3-136 - KELLY GROSSMAN\136-089 Norwood Apartments\Working Drawings\Structural Drawings\S3-4.dwg Plotted: May 23, 2019 - 9:31 AM by Hao Tran



RE: S0-1, S0-3 & S0-5
FOR SHEARWALL NOTES
AND SCHEDULE



1 1ST FLOOR SHEARWALL PLAN - BUILDING TYPE IV
SCALE: 1/8"=1'-0"



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]
Sheet Title: **1ST FLOOR SHEARWALL PLAN**
BUILDING TYPE IV

Rev.	Description	Date

Drawn By: HT
Checked By: DWH/ZA
Drawing Scale: As Noted
Project No. 136-089

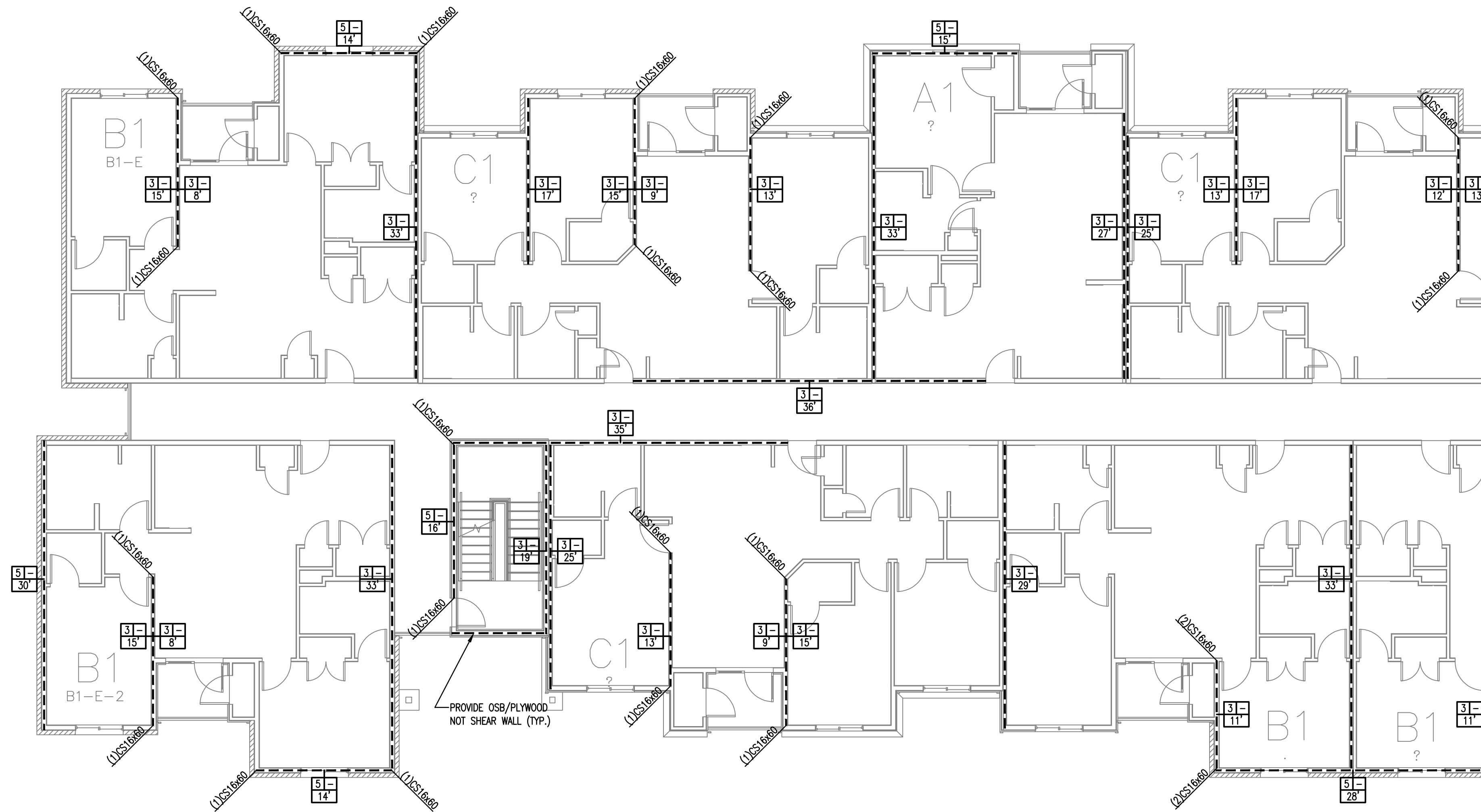
ISSUED FOR:
☐ SD 30%
☐ Coordination
☐ CD 95%
☐ CD 100%
☐ Pricing
☐ Bidding
☒ Permit
☐ Construction
DATE:
05/23/2019



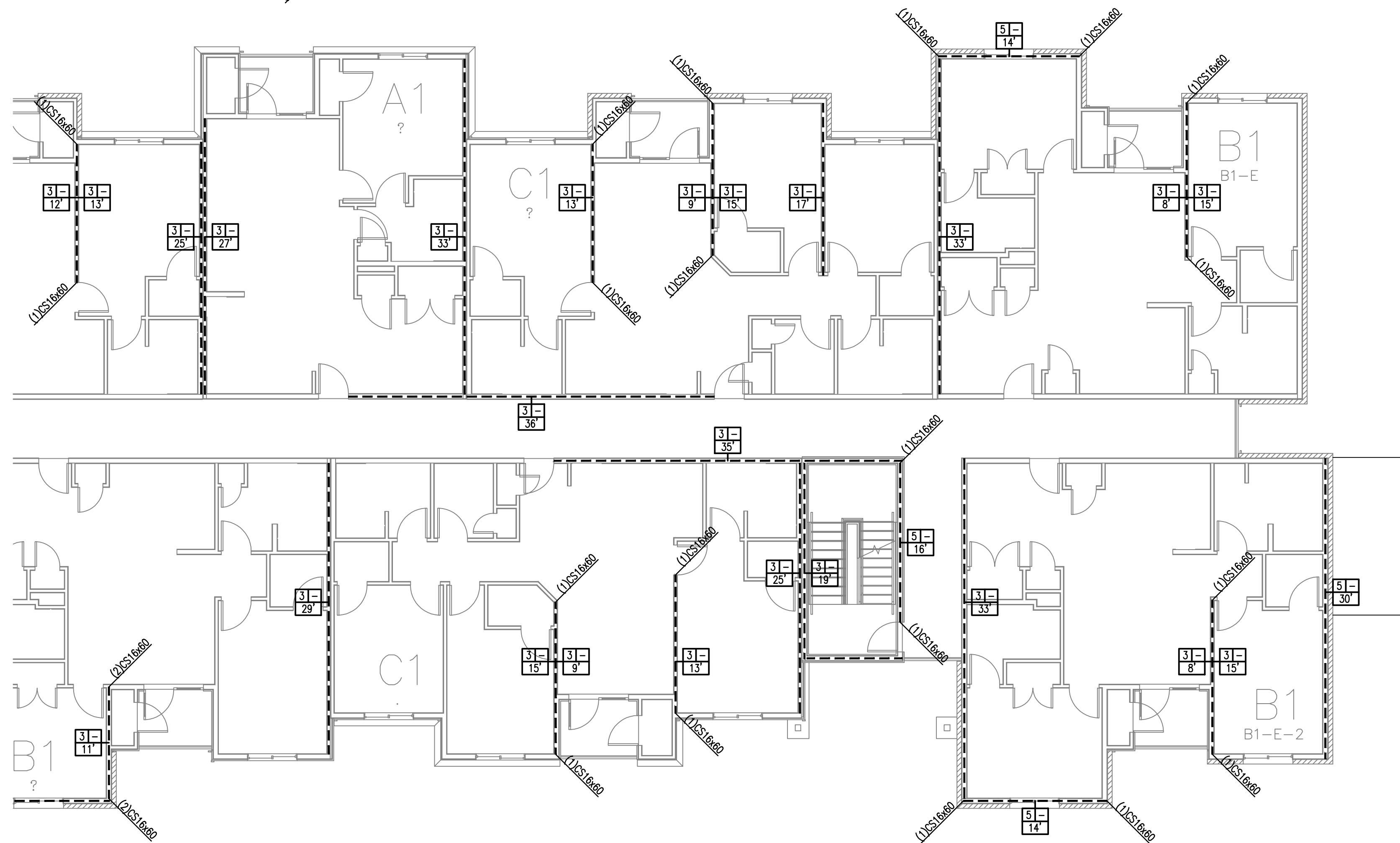
05/23/2019
Texas Registered Engineering Firm
F-19122
THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEVEN YEAR AND SHOULD NOT BE REPRODUCED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A DESIGN PROCESS.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN.

SHEET NO.
S3-4
PLAN

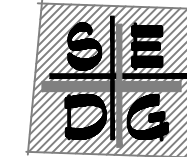
G:\S3-4A - KELLY GROSSMAN\136-089 Norwood Apartments\Working Drawings\Structural Drawings\S3-4A.dwg Plotted: May 23, 2019 - 9:32 AM by Hao Tran



RE: S0-1, S0-3 & S0-5
FOR SHEARWALL NOTES
AND SCHEDULE



1 2ND FLOOR SHEARWALL PLAN - BUILDING TYPE IV
SCALE: 1/8"=1'-0"



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]
2ND FLOOR SHEARWALL PLAN
BUILDING TYPE IV

Sheet Title:

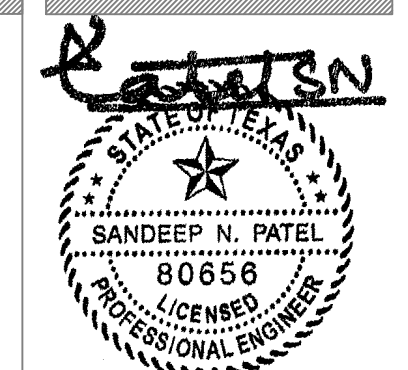
Date:

Description:

Rev.

Drawn By: HT
Checked By: DWH/ZA
Drawing Scale: As Noted
Project No. 136-089

ISSUED FOR:
☐ SD 30%
☐ Coordination
☐ CD 95%
☐ CD 100%
☐ Pricing
☐ Bidding
☒ Permit
☐ Construction
DATE:
05/23/2019

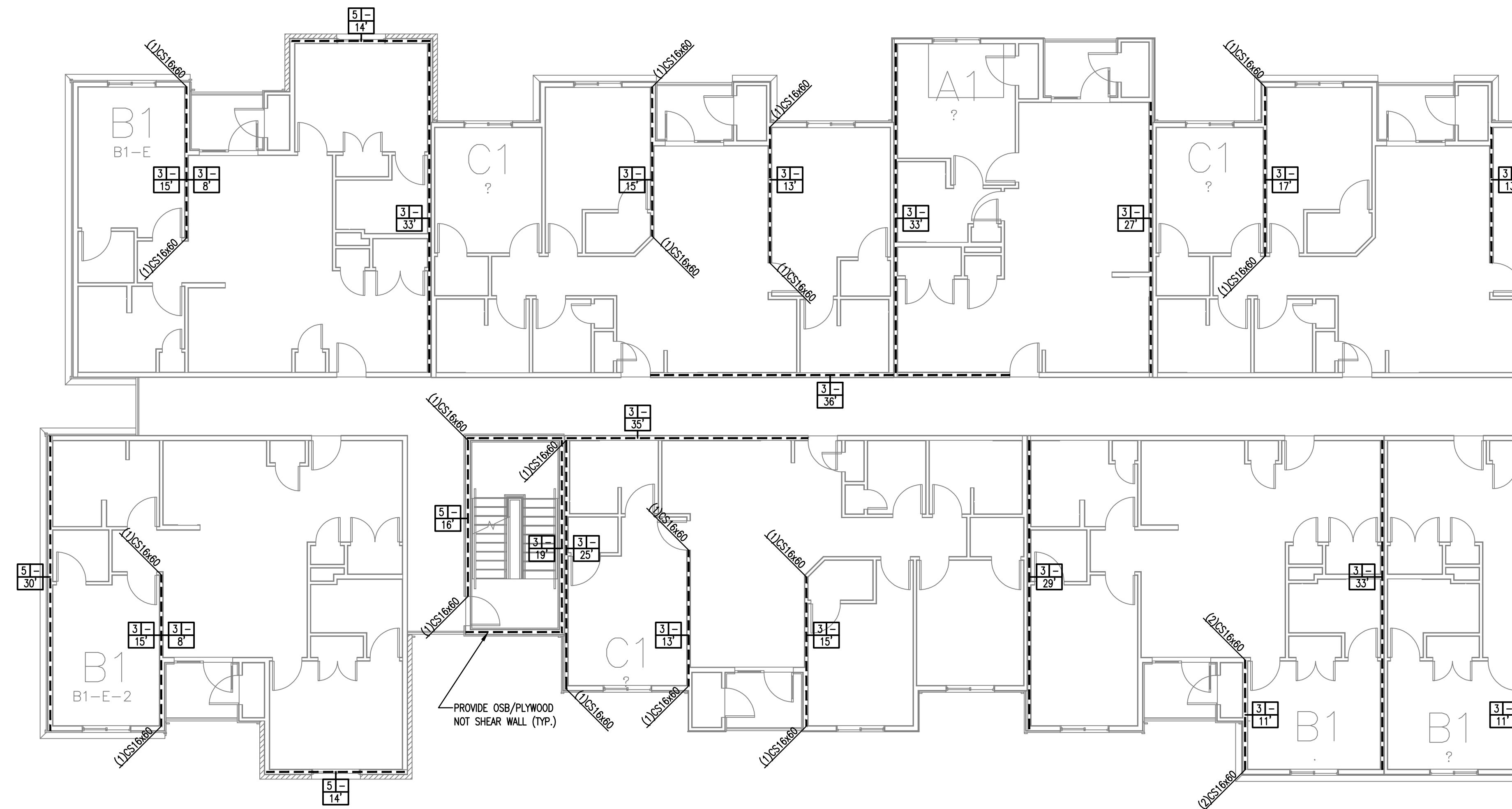


05/23/2019
Texas Registered Engineering Firm
F-19122

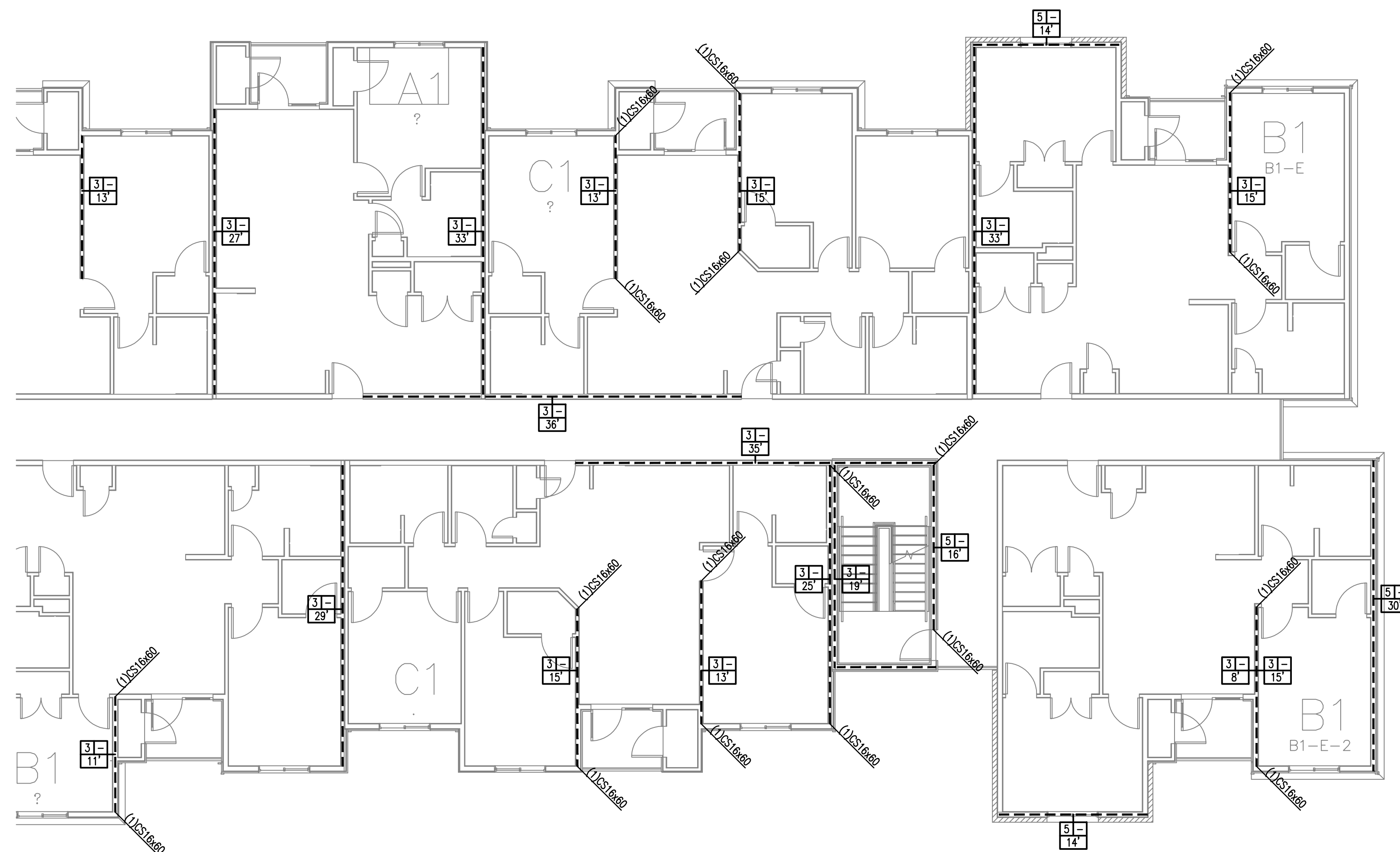
THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEVEN (7) YEAR AND SHOULD NOT BE REPRODUCED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A DESIGN PROCESSING/ANALYSIS.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN.

SHEET NO.

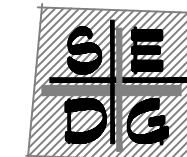
S3-4A
PLAN



RE: S0-1, S0-3 & S0-5
FOR SHEARWALL NOTES
AND SCHEDULE



1 3RD FLOOR SHEARWALL PLAN – BUILDING TYPE IV
SCALE: 1/8"=1'-0"



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

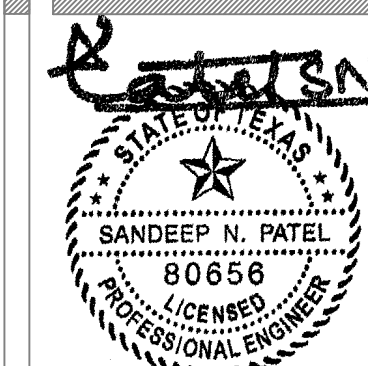
NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

et Title: **3RD FLOOR SHEARWALL PLAN**
BUILDING TYPE IV

[illegible]

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____



05/23/2019
Texas Registered Engineering Firm
F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL - TRADE SECRETS

THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEDG LLC, AND SHOULD NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/MATERIAL.

UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN.

SHEET NO.

S3-4B

PLAN

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____

STATE OF TEXAS
SANDEEP N. PATEL
80656
LICENSED
PROFESSIONAL ENGINEER

05/23/2019
Texas Registered Engineering Firm

F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL - TRADE SECRETS

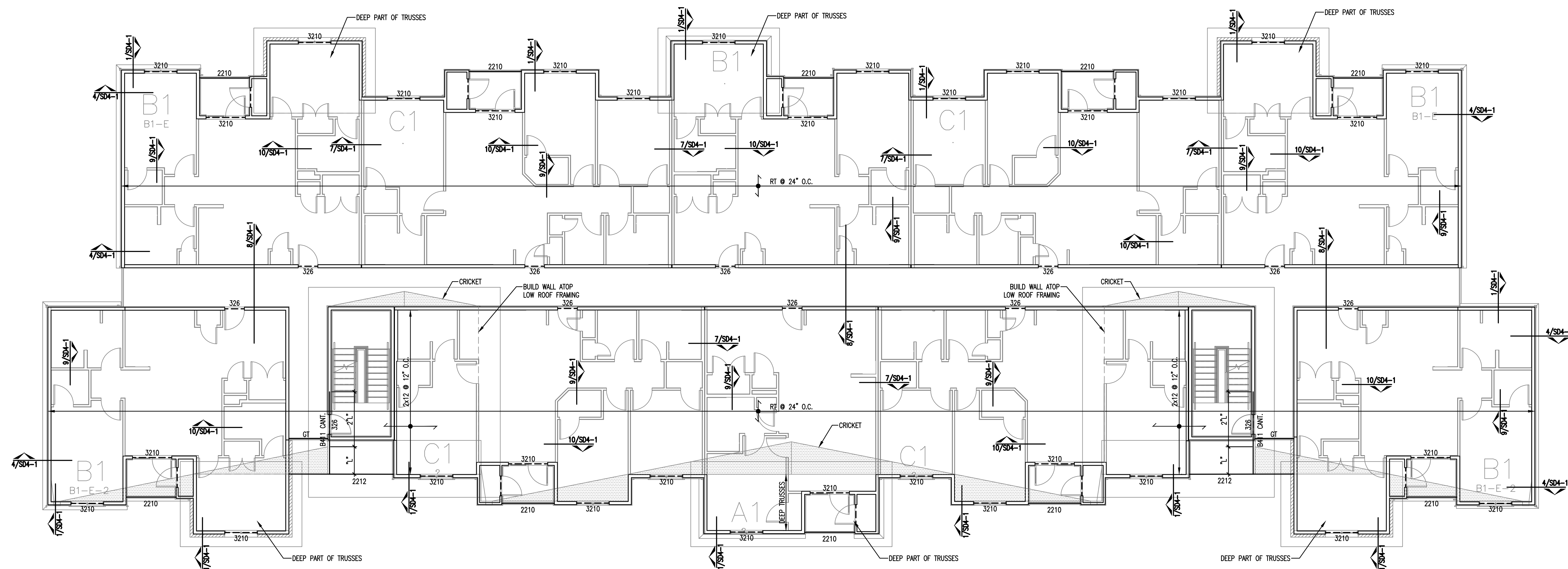
THE INFORMATION ENCLOSED HEREIN IS PROPRIETARY WITH SEDG LLC, AND SHOULD NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/MATERIAL.

UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO.

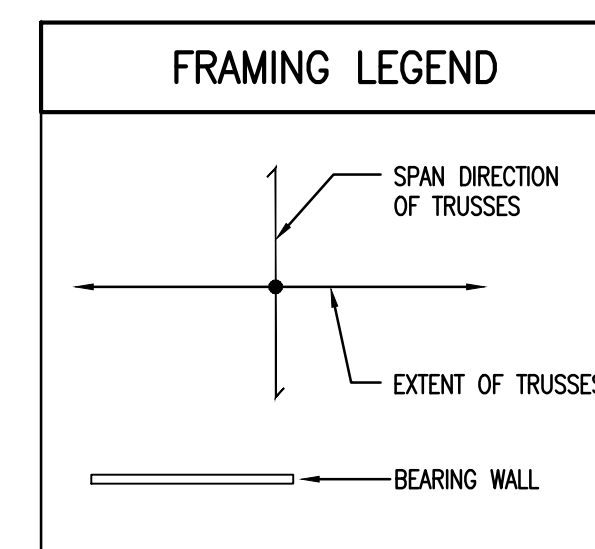
S4-1

PLAN

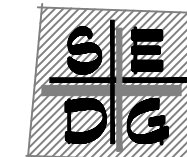


1 ROOF FRAMING PLAN – BLDG TYPE I
SCALE: 1/8"=1'-0"

SCALE: 1/8"=1'-0"



RE: SO-1, SO-3 & SO-5
FOR FRAMING NOTES
AND SCHEDULE



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]
set Title: **ROOF FRAMING PLAN - BUILDING TYPE II**

ROOF FRAMING PLAN - BIIII DING TYPE II

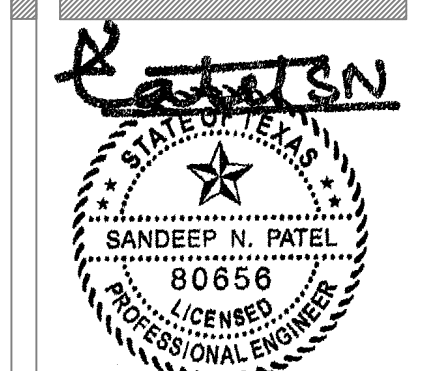
[illegible]

•

1

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____



05/23/2019
Texas Registered Engineering Firm
F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL - TRADE SECRETS

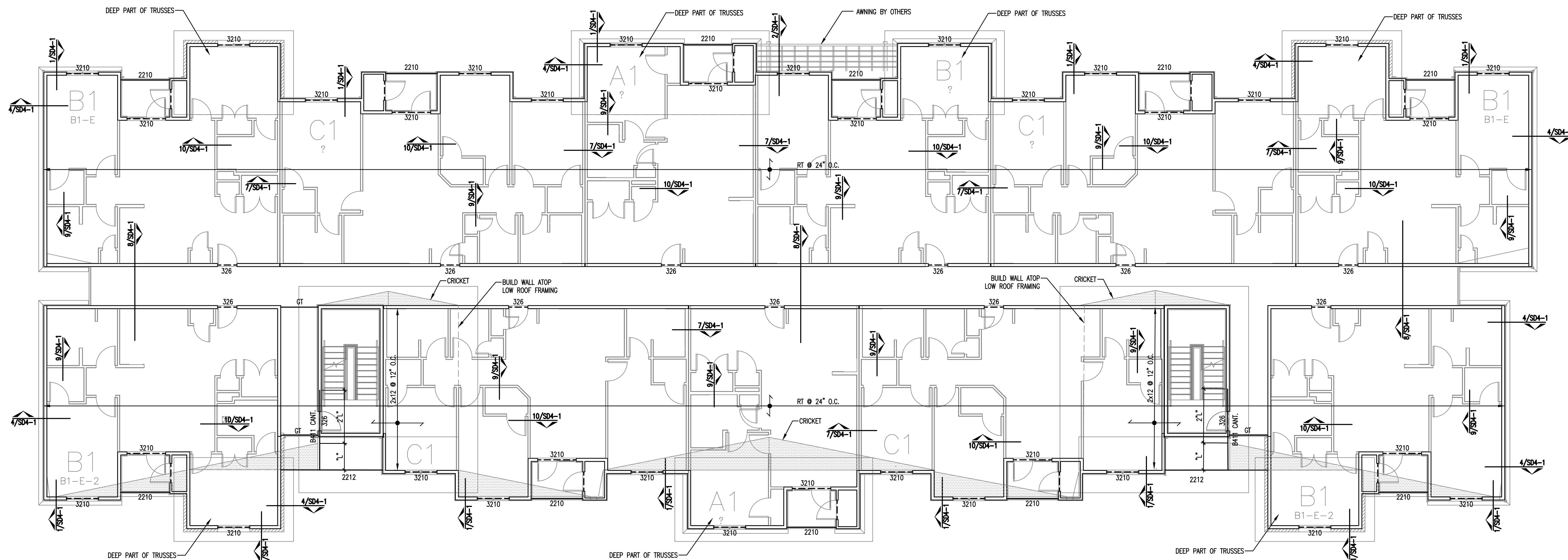
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEDG LLC, AND SHOULD NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/MATERIAL.

UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO.

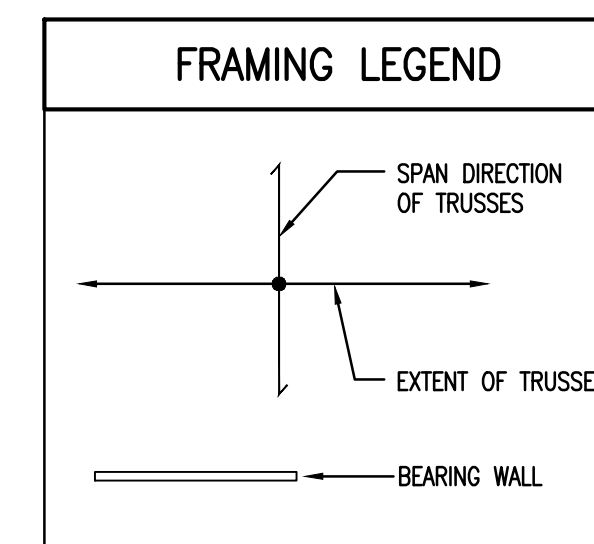
S4-2

PL

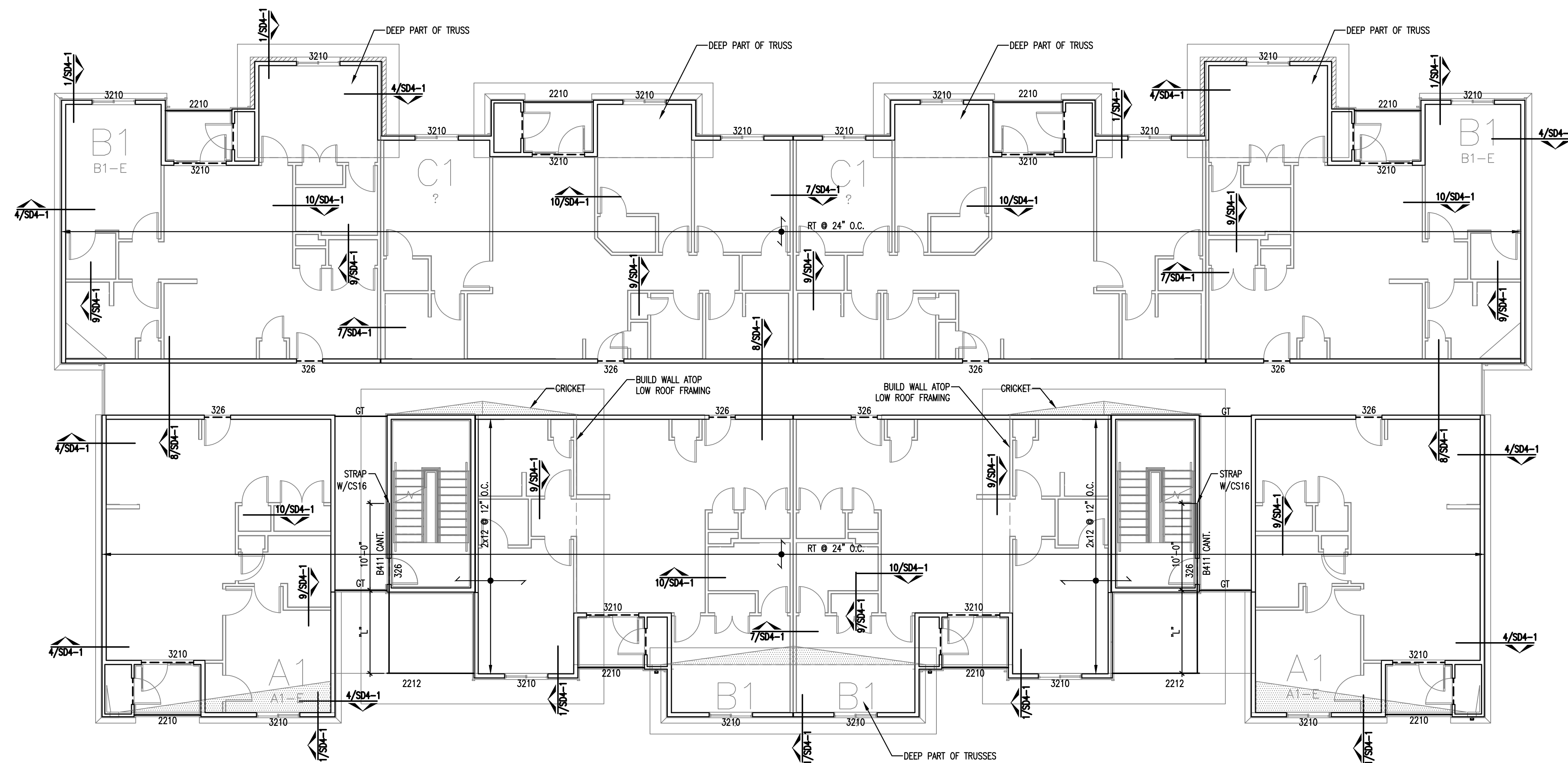


1 ROOF FRAMING PLAN – BUILDING TYPE II
SCALE: 1/8"=1'-0"

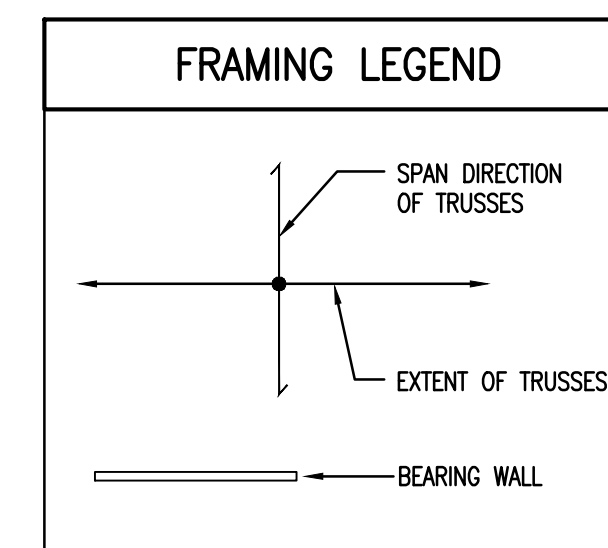
SCALE: 1/8"=1'-0"



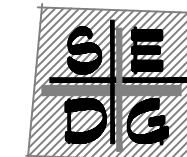
RE: SO-1, SO-3 & SO-5
FOR FRAMING NOTES
AND SCHEDULE



1 ROOF FRAMING PLAN – BUILDING TYPE III
SCALE: 1/8"=1'-0"



RE: SO-1, SO-3 & SO-5
FOR FRAMING NOTES
AND SCHEDULE



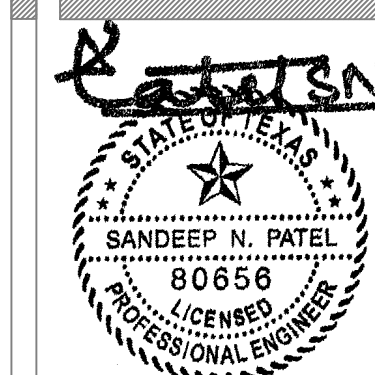
STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)583-7088 F:(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

[illegible]

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	_____
<input type="checkbox"/> Coordination	_____
<input type="checkbox"/> CD 95%	_____
<input type="checkbox"/> CD 100%	_____
<input type="checkbox"/> Pricing	_____
<input type="checkbox"/> Bidding	_____
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	_____



05/23/2019
Texas Registered Engineering Firm
F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL -- TRADE SECRETS

THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEDG LLC, AND SHOULD NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/MATERIAL.

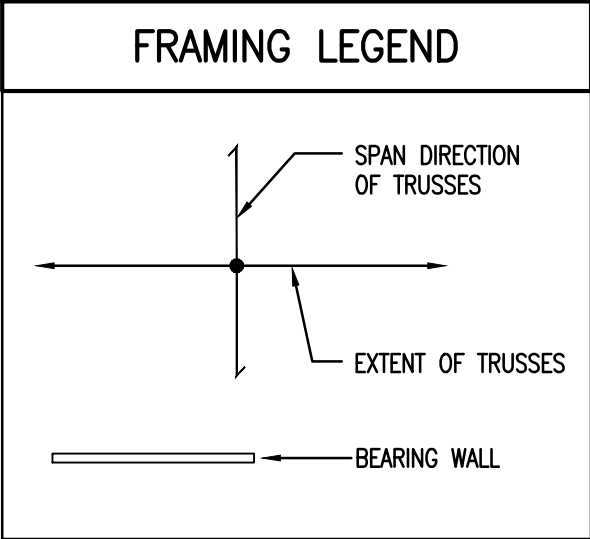
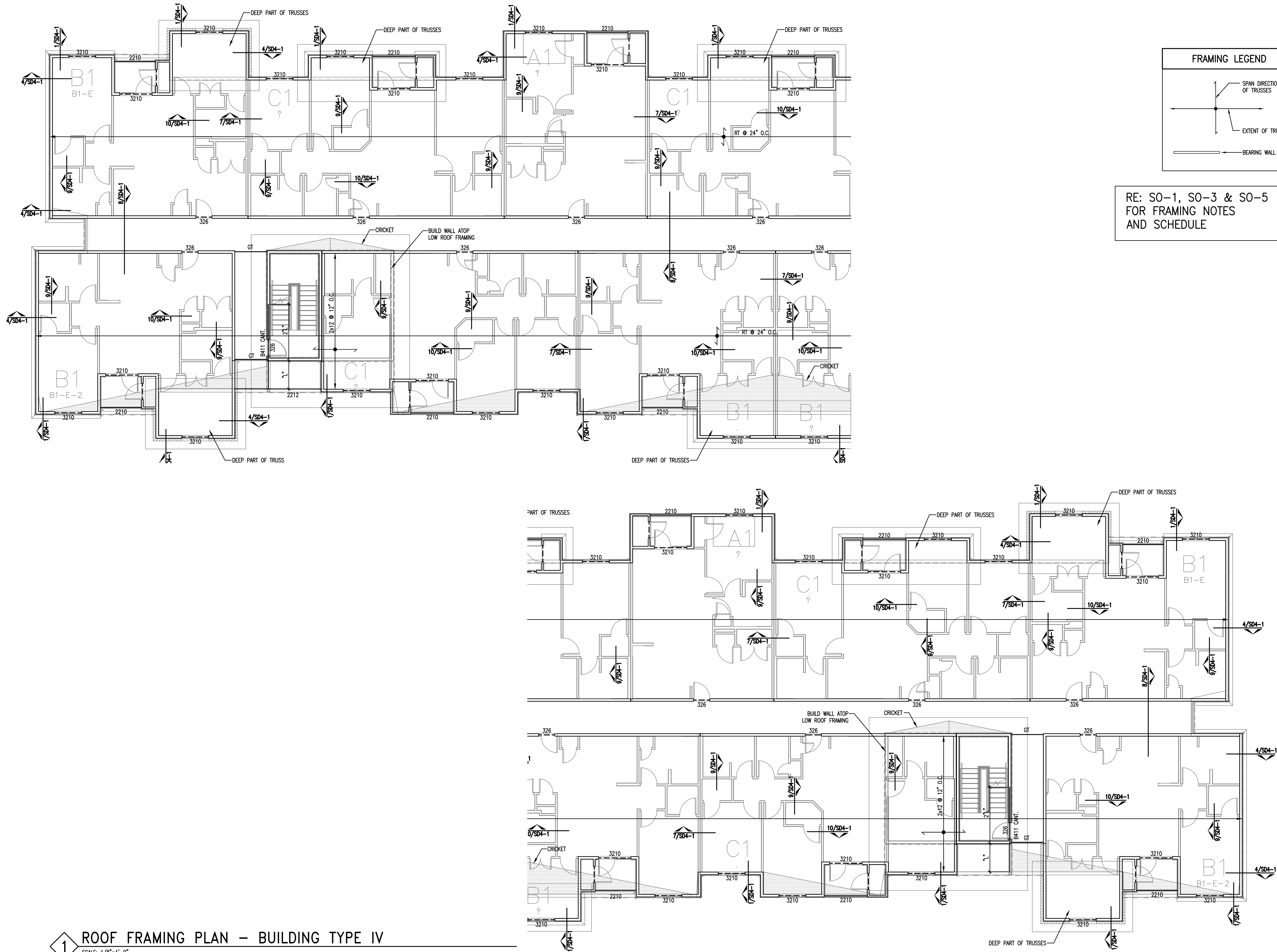
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO.

S4-3

PL

G:\\$136 - KELLY GROSSMAN\136-089 Norwood Apartments\Working Drawings\Structural Drawings\S4-4.dwg Plotted: May 23, 2019 - 9:32 AM by Hao Tran



RE: S0-1, S0-3 & S0-5
FOR FRAMING NOTES
AND SCHEDULE

1 ROOF FRAMING PLAN - BUILDING TYPE IV
SCALE: 1/8"=1'-0"

Rev.	Date	Description

Drawn By: HT	Checked By: DWH/ZA
Drawing Scale: As Noted	Project No. 136-089
ISSUED FOR:	
SD 30%	
Coordination	
CD 95%	
CD 100%	
Pricing	
Bidding	
Permit	
Construction	

05/23/2019
Texas Registered Engineering Firm
F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL - TRADE SECRETS

THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SDG LLC AND SHOULD NOT BE REPRODUCED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A DESIGN PROCESSING/ANALYSIS.




UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN.

SANDEEP N. PATEL
80656
LICENSED PROFESSIONAL ENGINEER

SCALE: $1/4"=1'-0"$

PLEASE REVIEW
ARCHITECTURAL DRGS. FOR
DIMENSIONS, SLOPES,
DROPS & DEPRESSIONS.

2" THICK CONCRETE SLAB (UNLESS NOTED OTHERWISE)
IN MINIMUM TEN (10) MIL VAPOR BARRIER ON COMPACTED FILL SUBGRADE. THE VAPOR BARRIER SHALL BE PERFORM TO ASTM E1745 CLASS A OR BETTER AND SHALL HAVE A MAXIMUM WATER VAPOR PERMEANCE OF 0.1 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96.
THE VAPOR BARRIER SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND ASTM E1643, STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR BARRIERS USED IN CONTACT WITH EARTH OR GRANULAR FILL UNDER CONCRETE SLABS. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION AND COMPACTION REQUIREMENTS.

GRADE BEAM SCHEDULE				
PLAN MARK	PLAN SYM.	BEAM WIDTH	BEAM DEPTH	NOTES
THICKENED SLAB		RE:PLAN	12"	2-#5 BOTT.
REINF. BEAM		12"	30"	2-#5 BOTT. w/#3 TIES/EACH TENDON
GRADE BEAM		12"	30"	1 TENDON

Drawn By:	Checked By:
HT	DVH/ZA
Drawing Scale:	Project No.
As Noted	136-089

ISSUED FOR: DATE: 05/23/2019

☐ SD 30%

☐ Coordination

☐ CD 95%

☐ CD 100%

☐ Pricing

☐ Bidding

☒ Permit

☐ Construction

State of Texas
SANDEEP N. PATEL
80656
LICENSED
PROFESSIONAL ENGINEER

05/23/2019
Texas Registered Engineering Firm

F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

CONFIDENTIAL - TRADE SECRETS

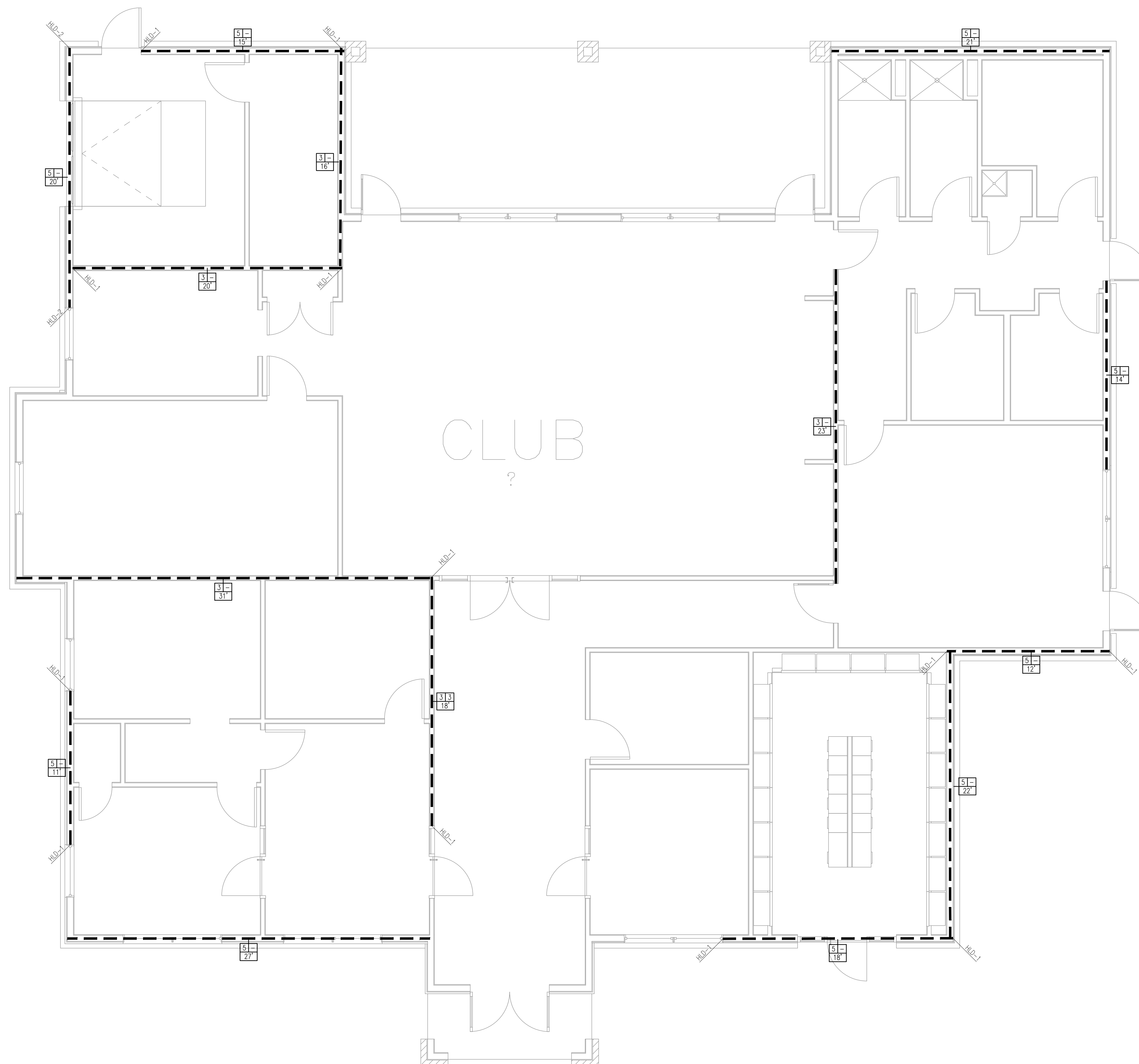
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH SEDG LLC, AND SHOULD NOT BE USED, DUPLICATED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESS/MATERIAL.

UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN

SHEET NO.

S5-2

PLAN



RE: SO-1, SO-3 & SO-5
FOR SHEARWALL NOTES
AND SCHEDULE

1 SHEARWALL PLAN - CLUBHOUSE
SCALE: 1/4"=1'-0"

SCALE: 1/4"=1'-0"



Sheet Title:

Date _____Rev.

SHEET NO.

S5-3

PLAN

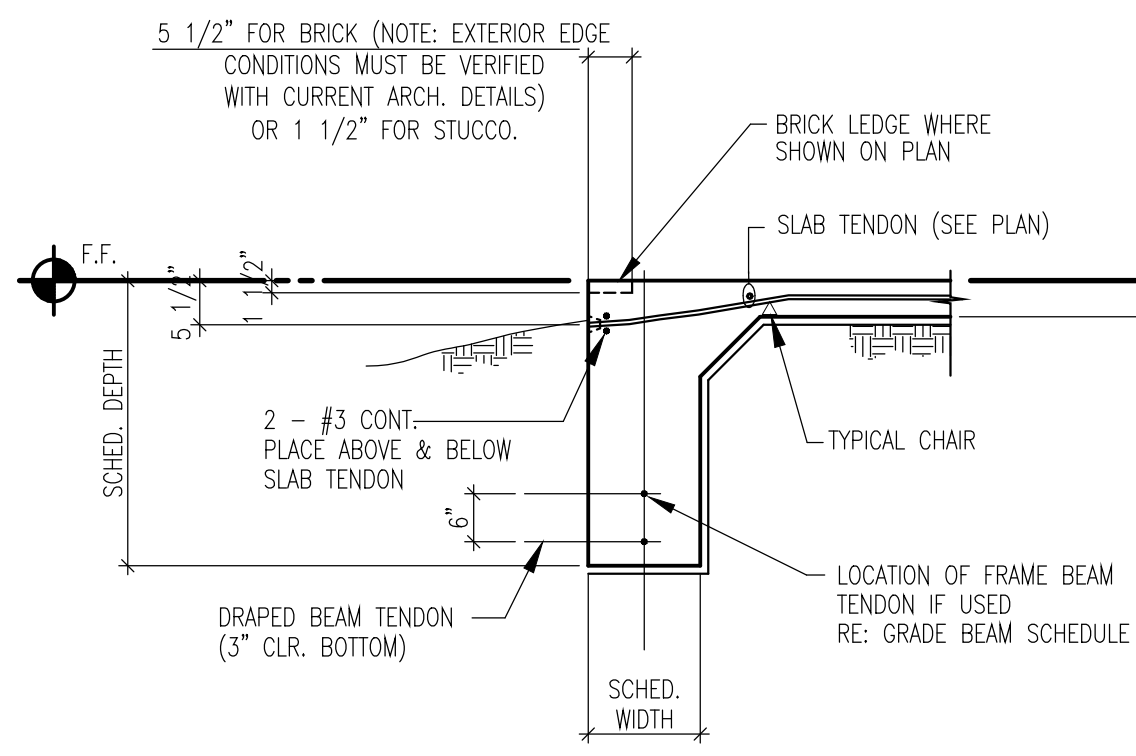


SCALE: $1/4''=1'-0''$

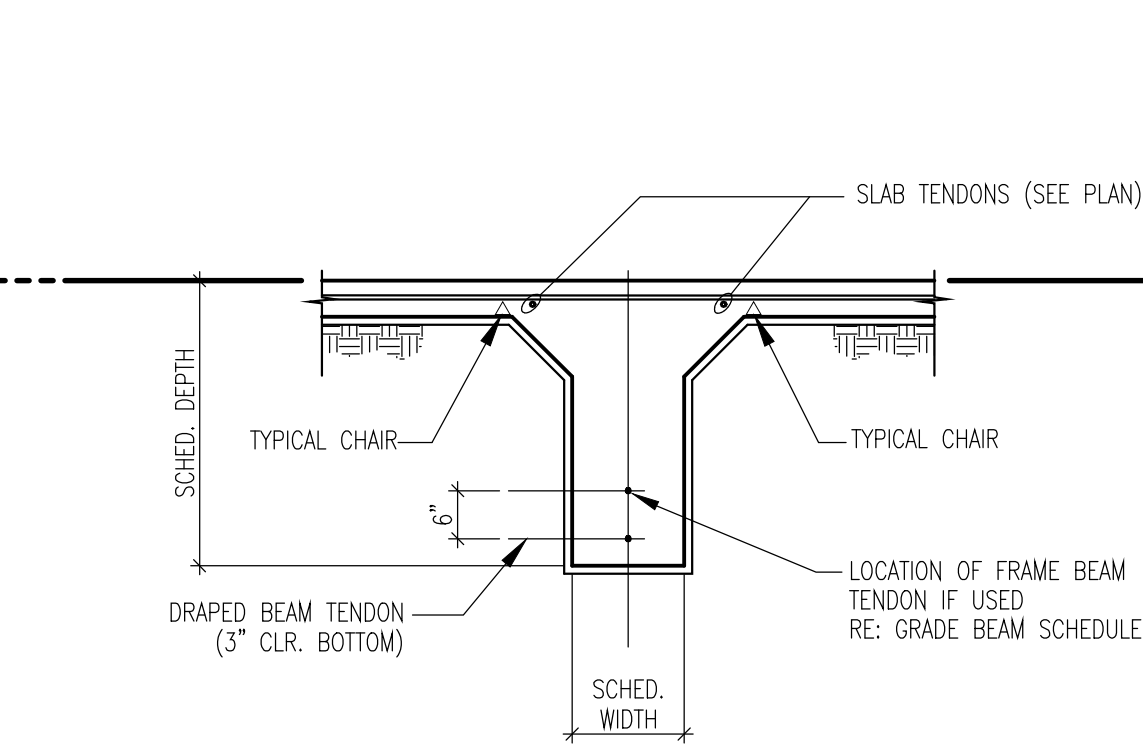


RE: S0-1, S0-3 & S0-5
FOR FRAMING NOTES

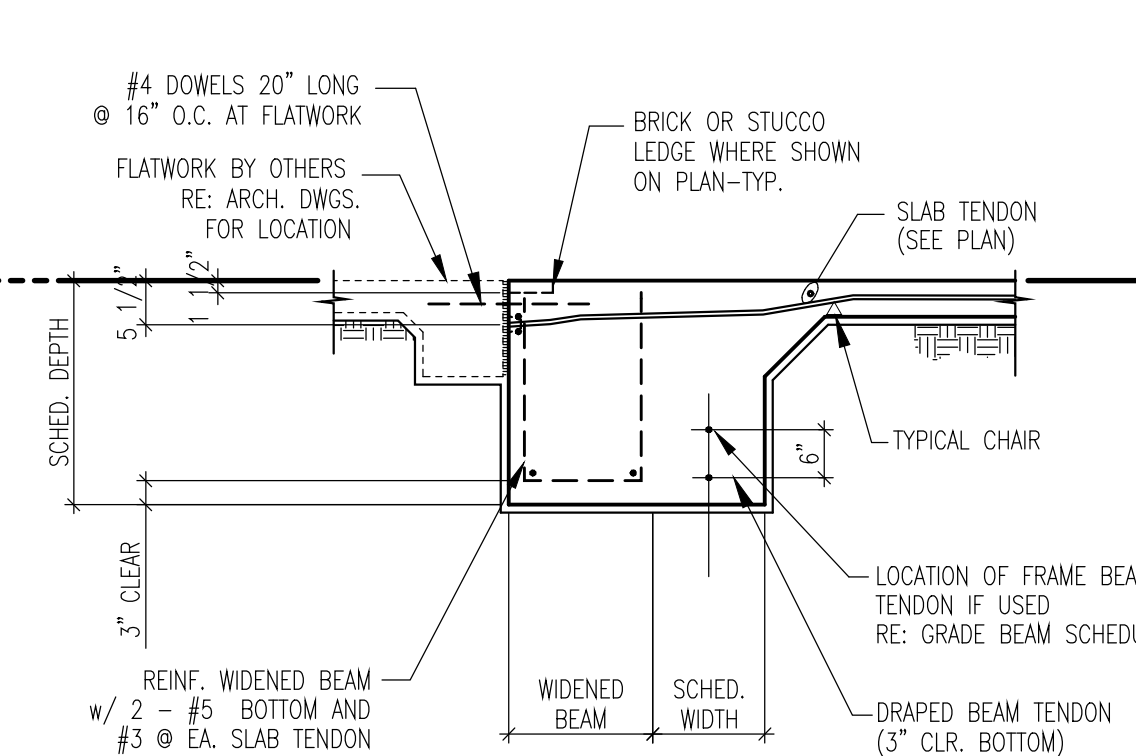
G:\\$136 - KELLY GROSSMAN\136-089 Norwood Apartments\Structural Drawings\Working Drawings\SD1-1.dwg Plotted: May 23, 2019 - 9:32 AM by Hao Tran



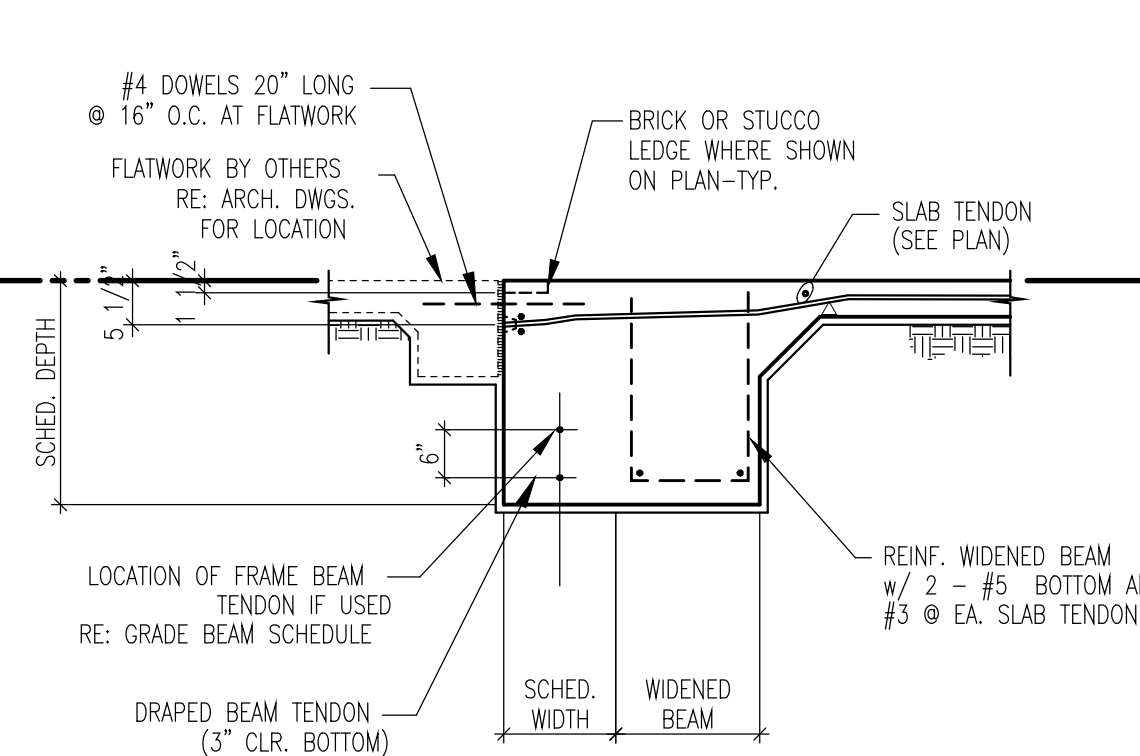
1 TYPICAL EXTERIOR GRADE BEAM
SCALE: 1/2"=1'-0"



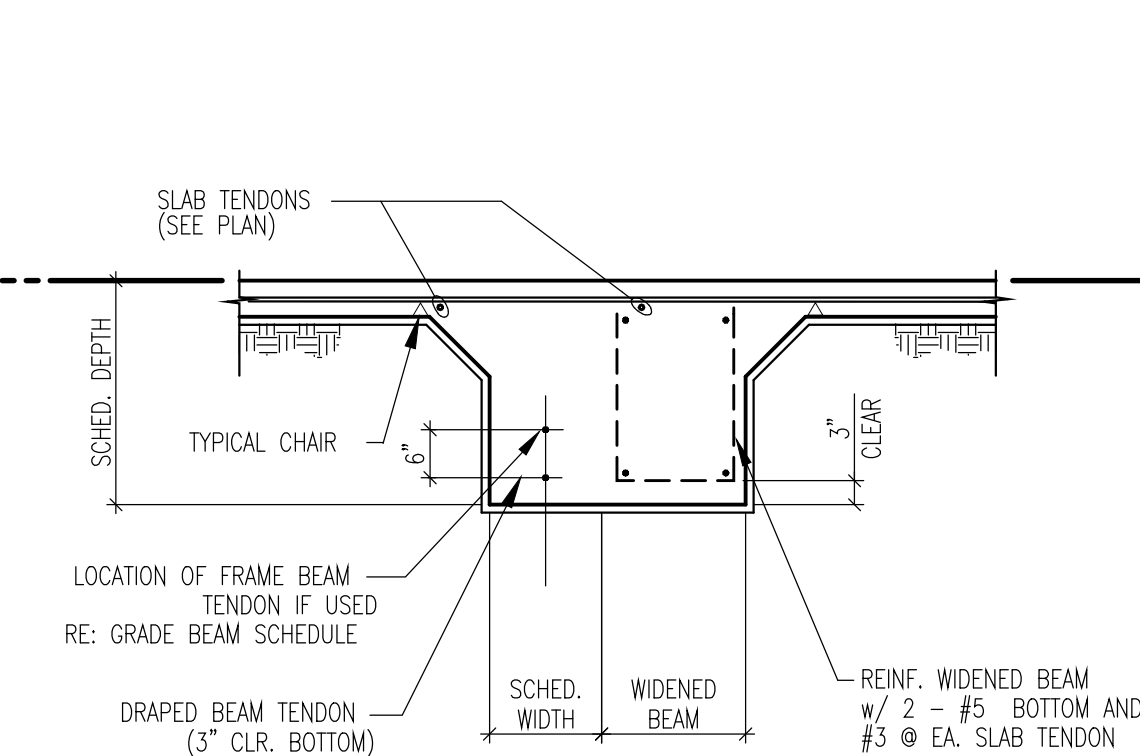
2 TYPICAL INTERIOR GRADE BEAM
SCALE: 1/2"=1'-0"



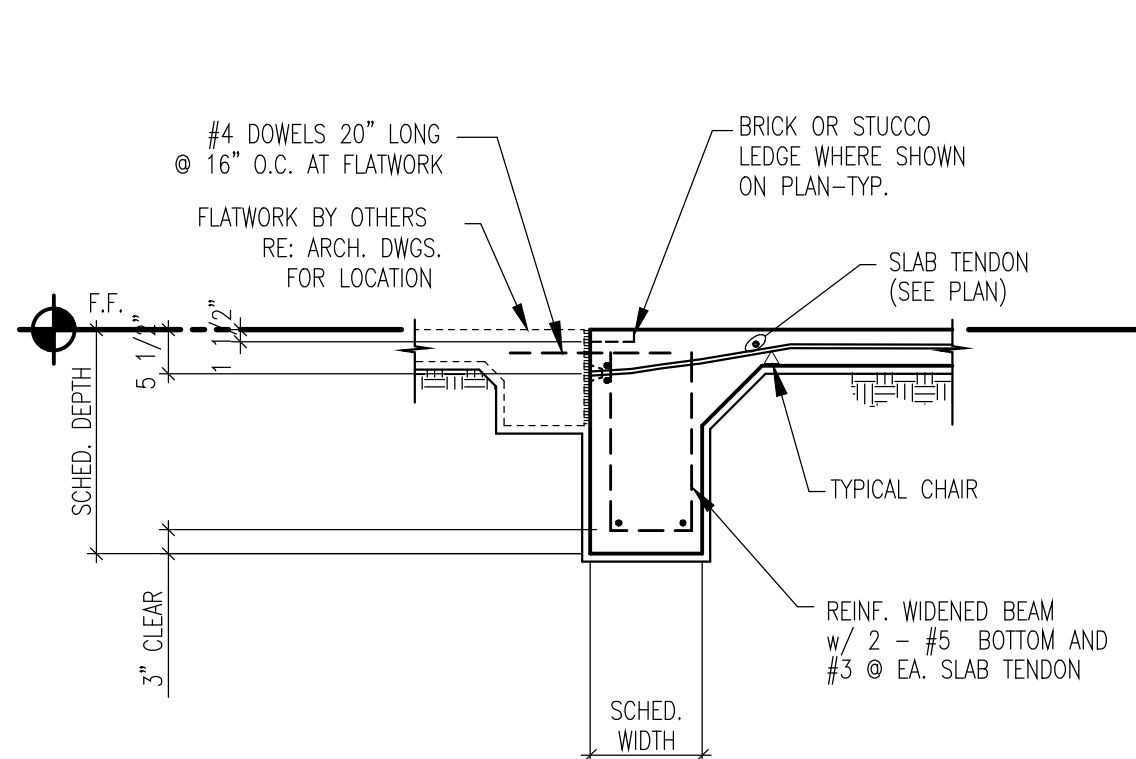
3 WIDENED EXTERIOR GRADE BEAM
SCALE: 1/2"=1'-0"



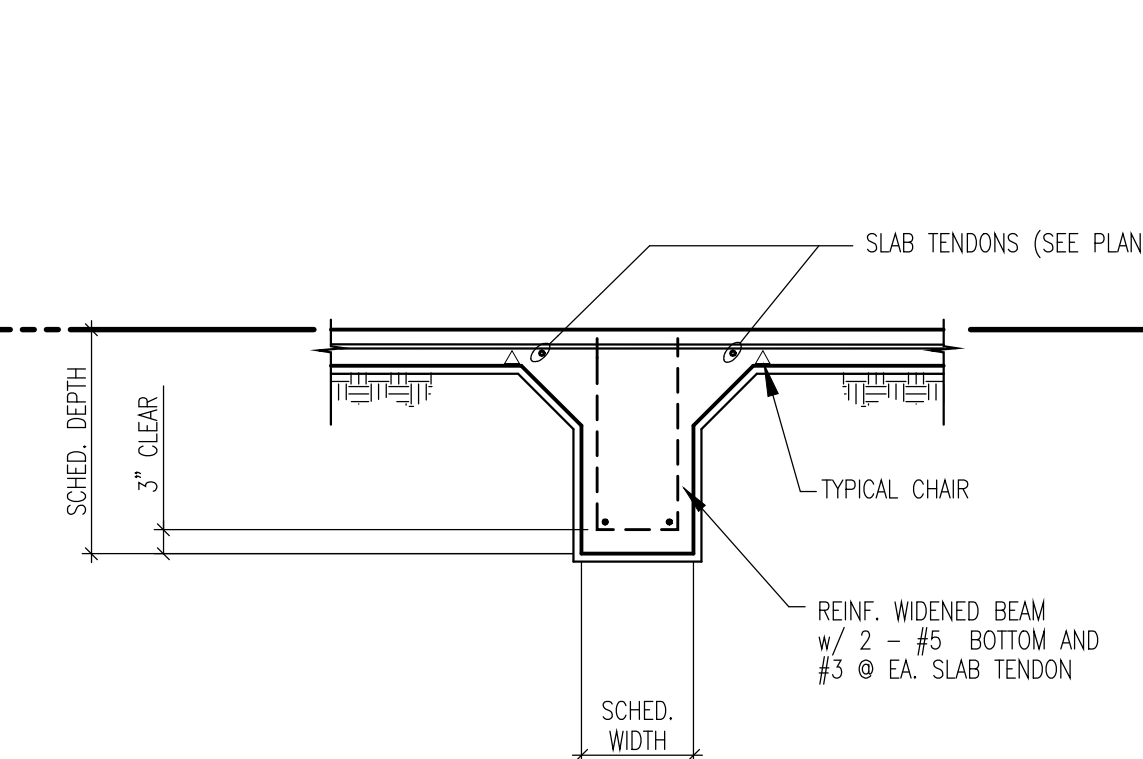
4 WIDENED EXTERIOR GRADE BEAM
SCALE: 1/2"=1'-0"



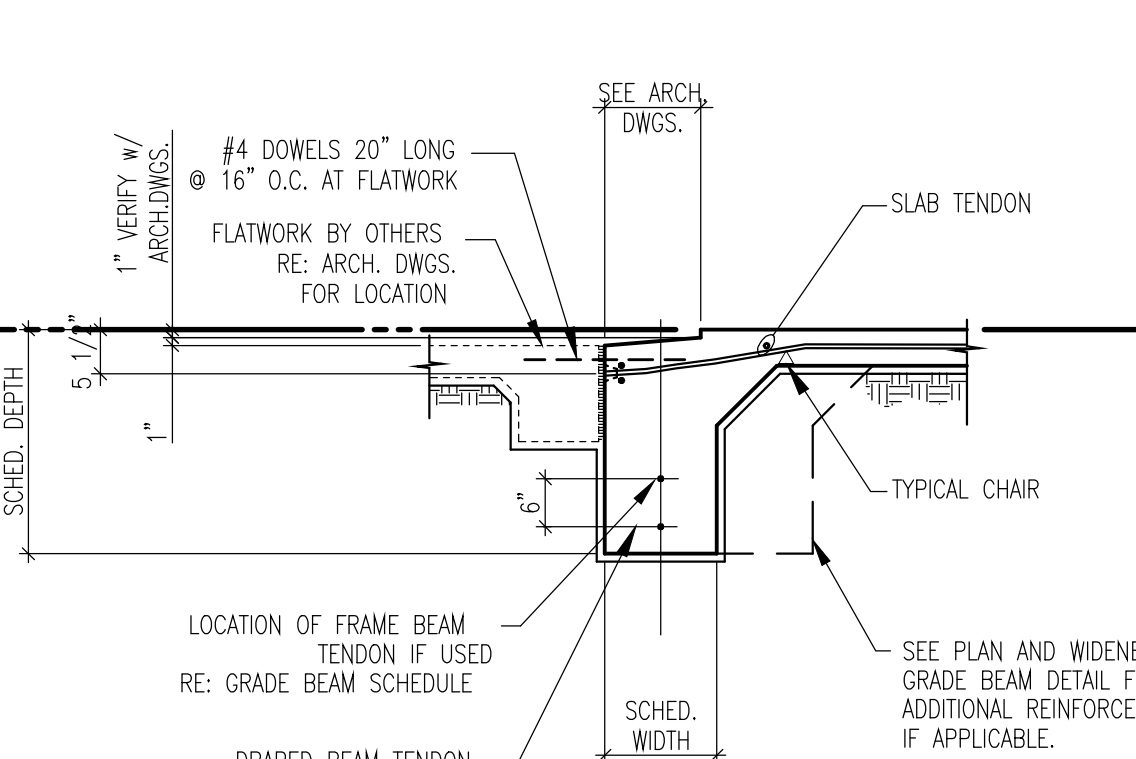
5 WIDENED INTERIOR GRADE BEAM
SCALE: 1/2"=1'-0"



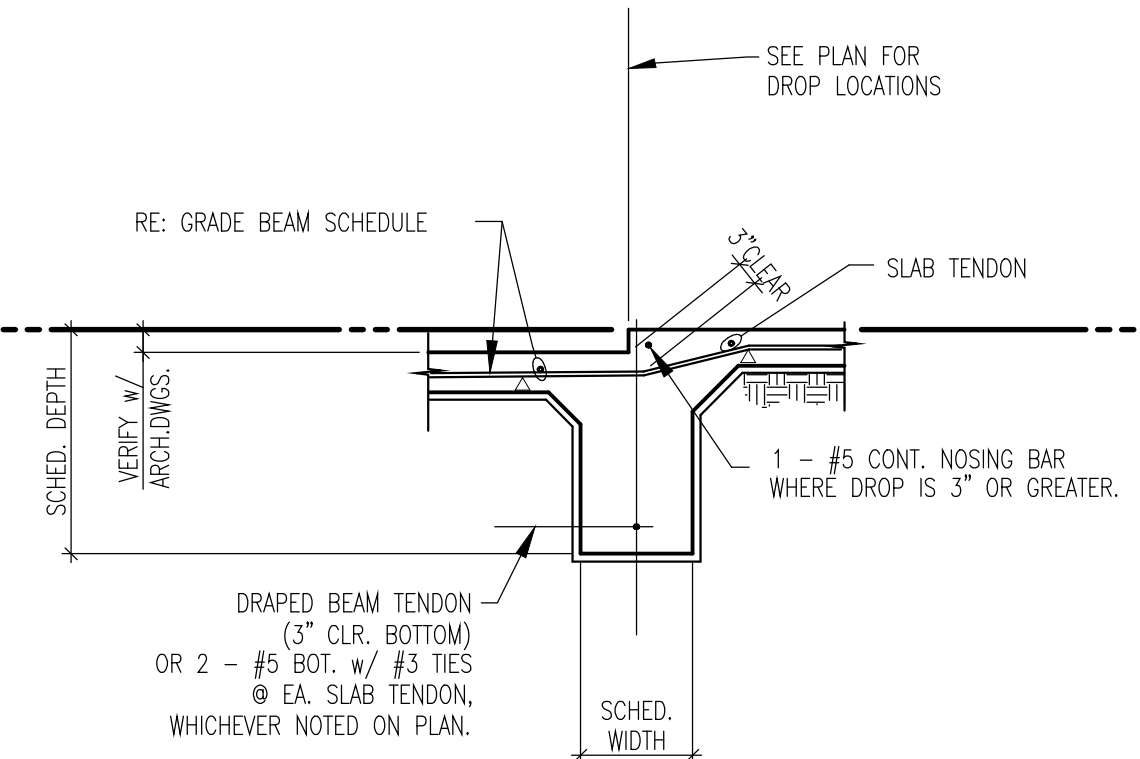
6 TYPICAL REINFORCED GRADE BEAM
SCALE: 1/2"=1'-0"



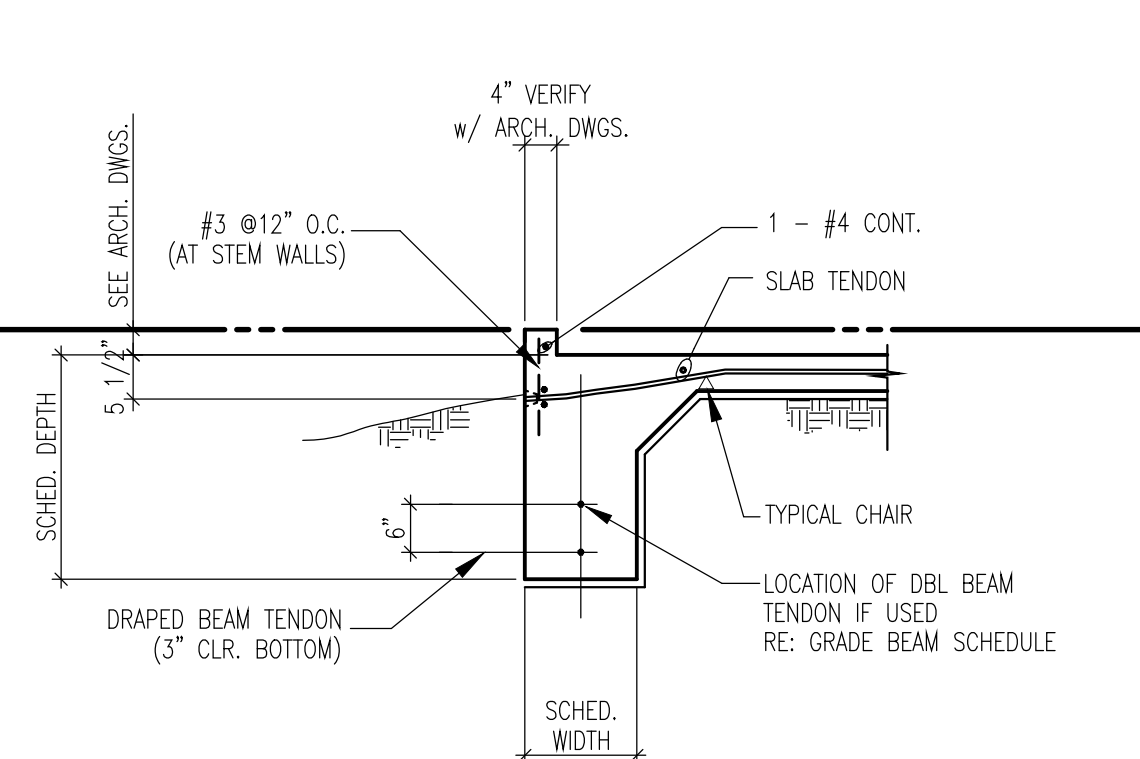
7 TYPICAL REINFORCED GRADE BEAM
SCALE: 1/2"=1'-0"



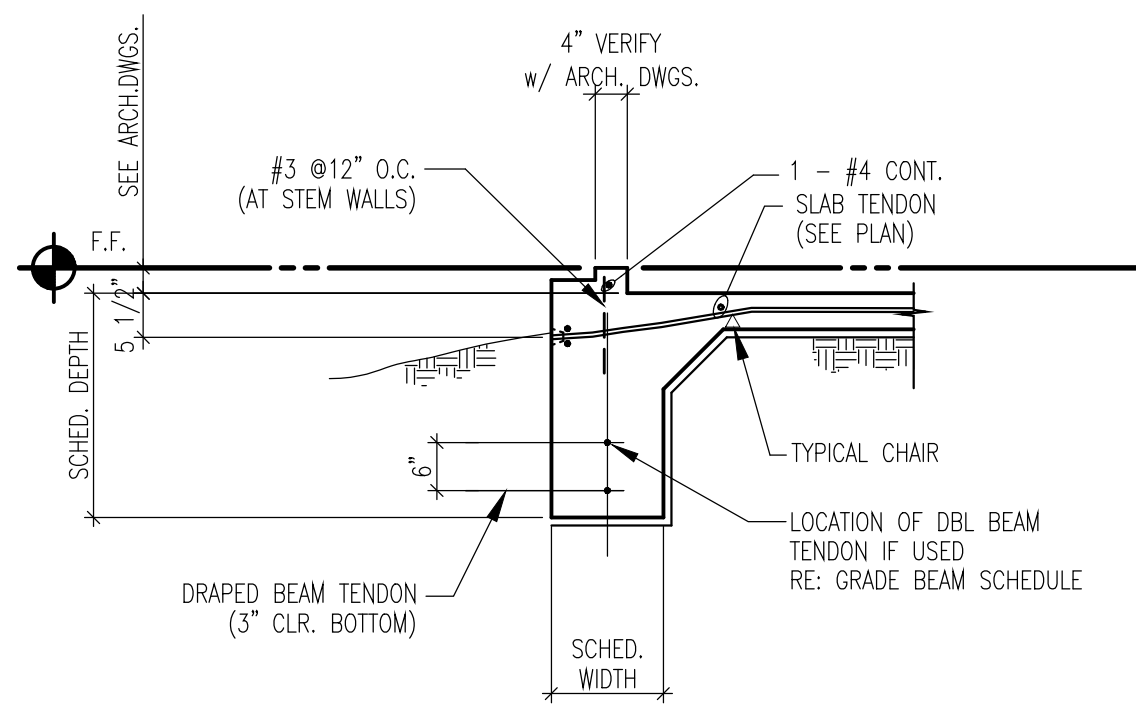
8 GRADE BEAM AT GARAGE DOOR
SCALE: 1/2"=1'-0"



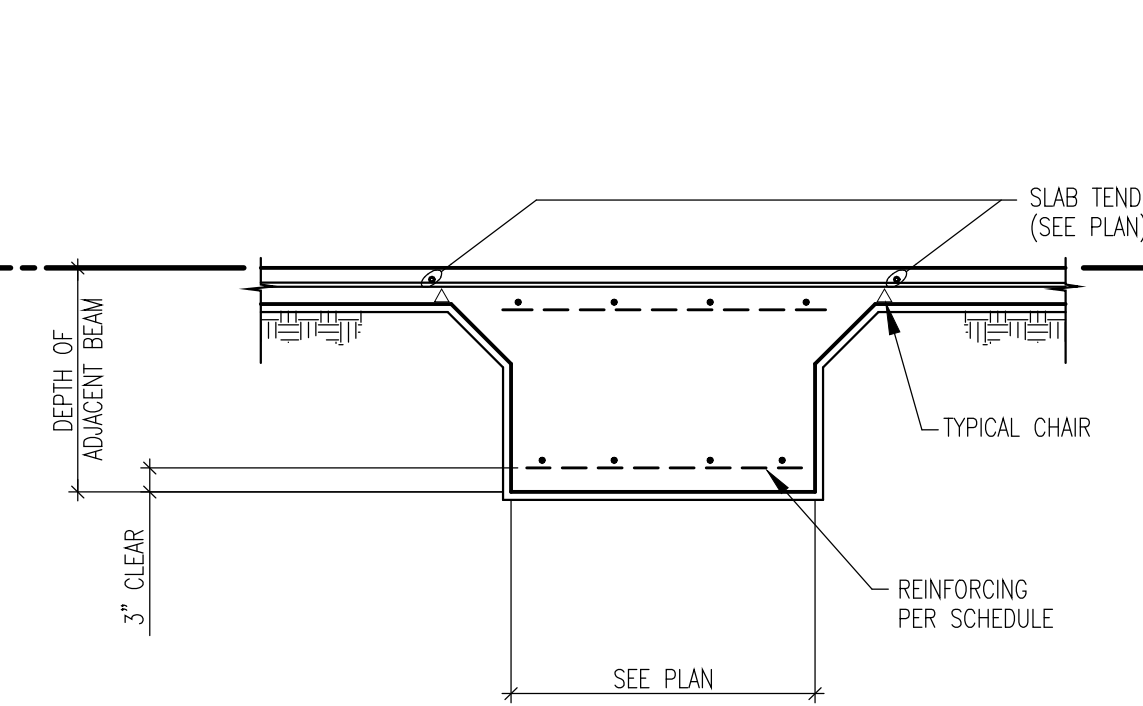
9 GRADE BEAM AT FLOOR DEPRESSION
SCALE: 1/2"=1'-0"



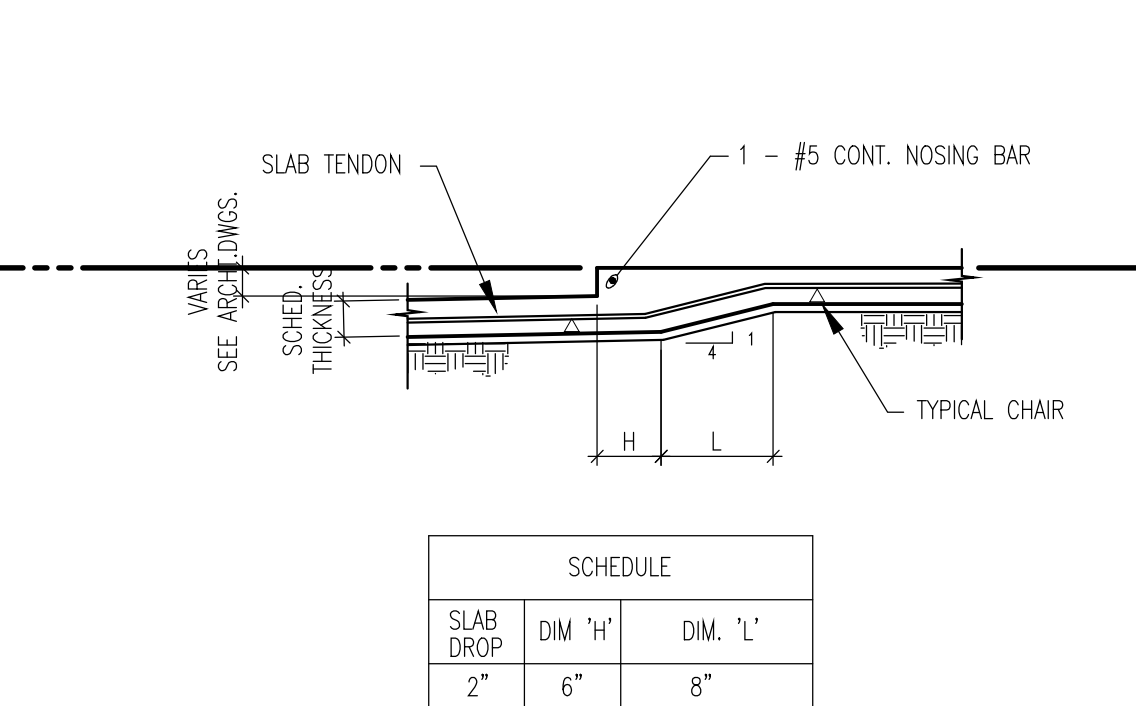
10 EXTERIOR STEM WALL
SCALE: 1/2"=1'-0"



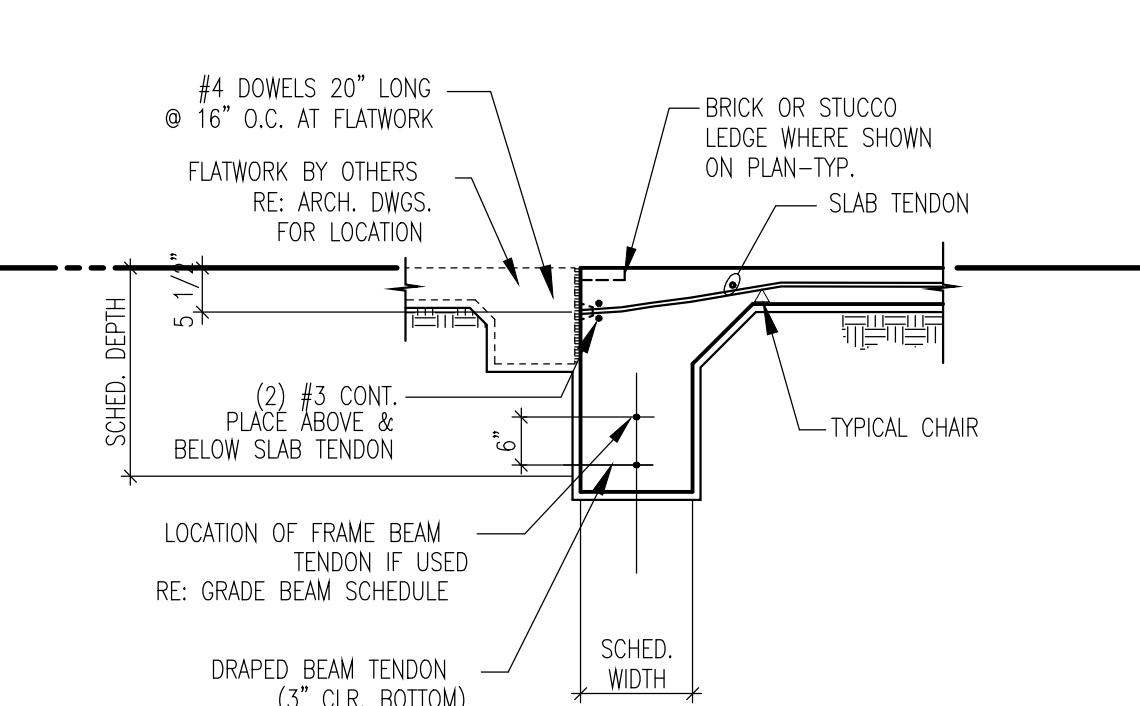
11 STEM WALL @ BRICK OR STUCCO LEDGE
SCALE: 1/2"=1'-0"



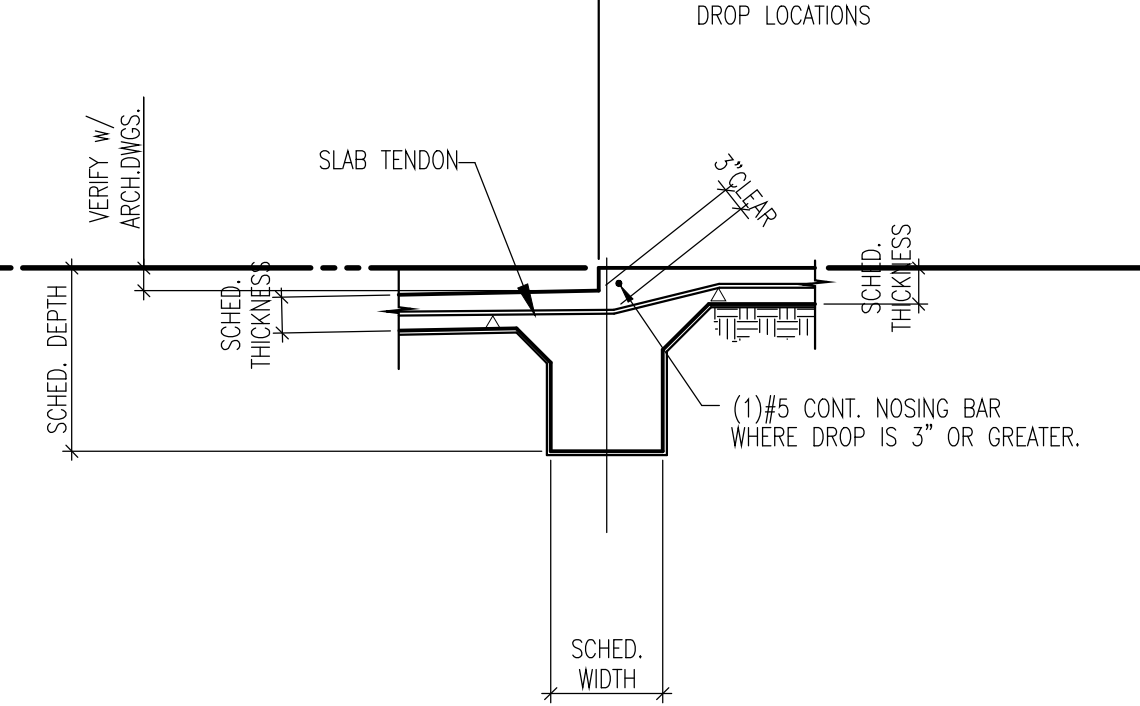
12 SPREAD FOOTING DETAIL
SCALE: 1/2"=1'-0"



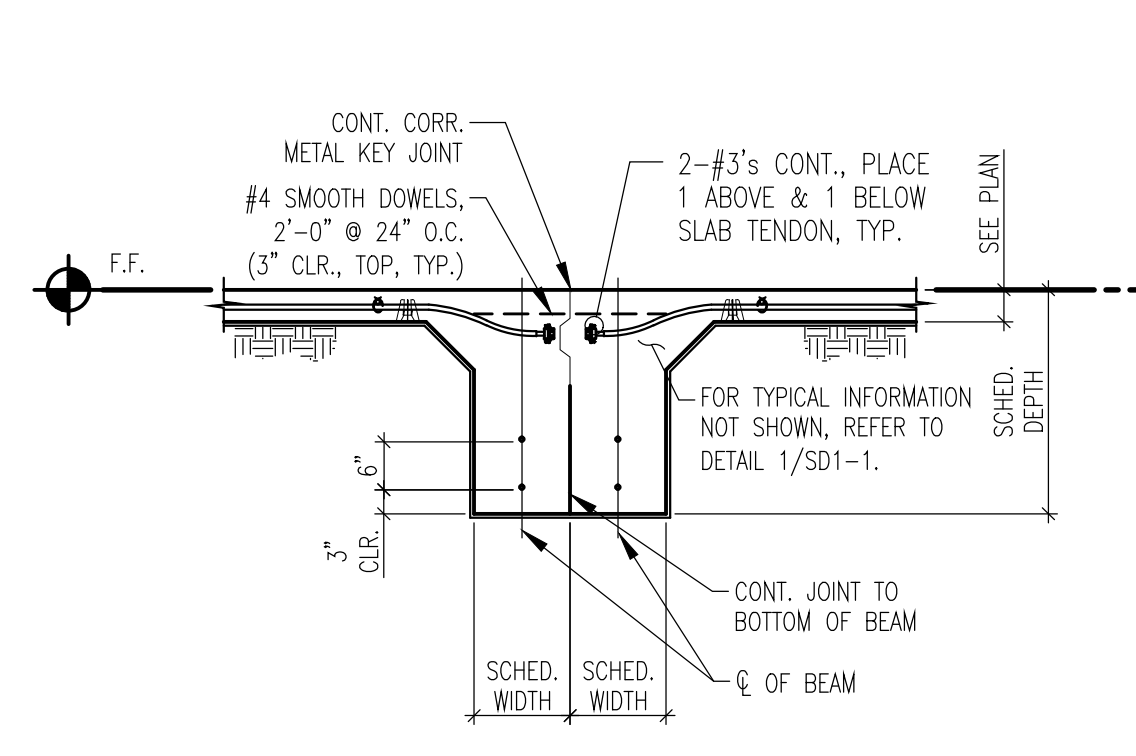
13 SLAB AT FLOOR DEPRESSION
SCALE: 1/2"=1'-0"



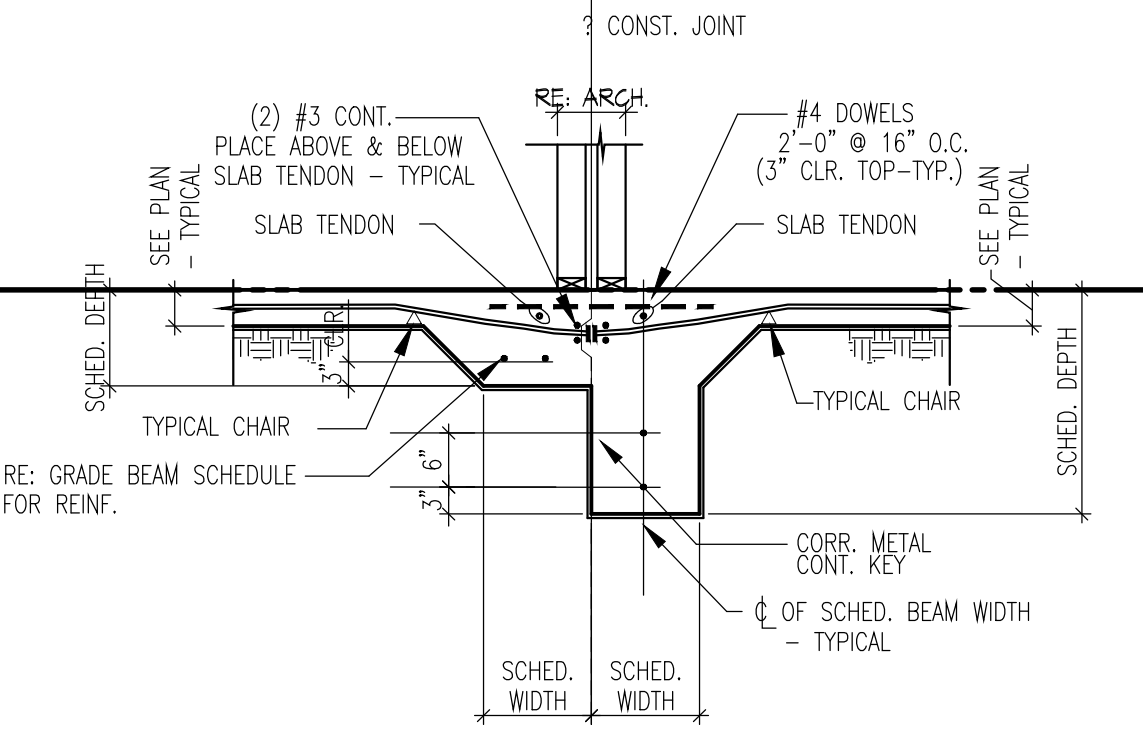
14 EXTERIOR BEAM WITH FLAT WORK
SCALE: 1/2"=1'-0"



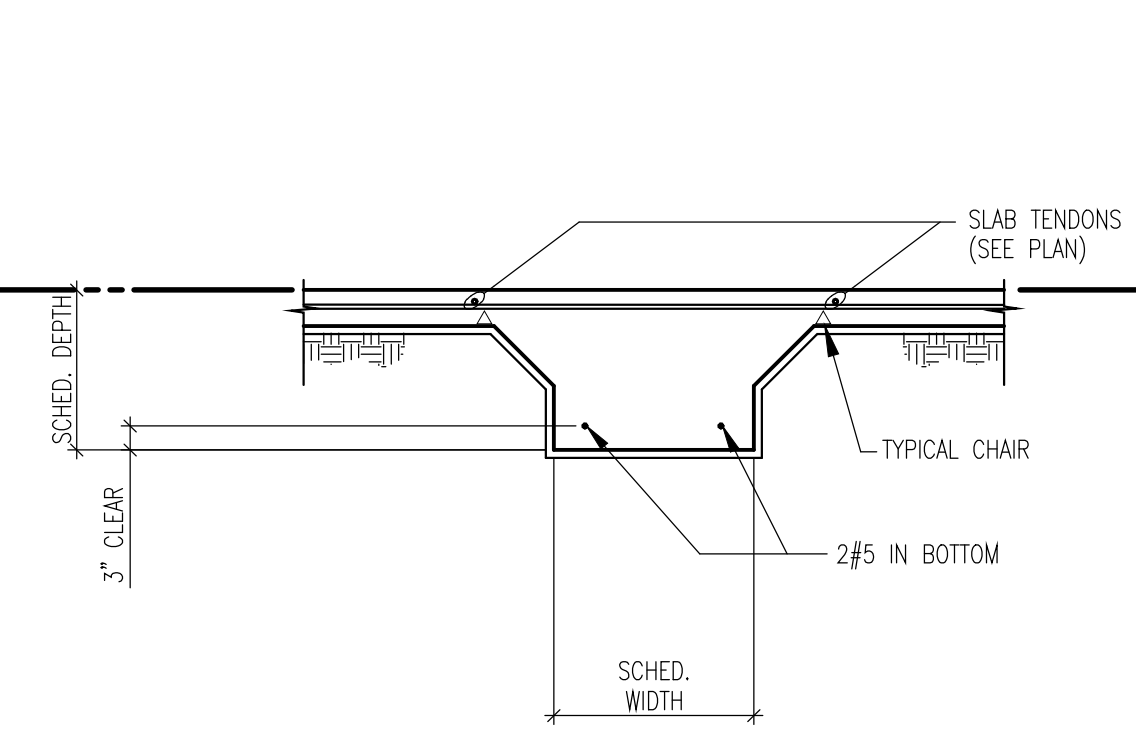
15 THICKENED SLAB AT FLR. DEPRESSION
SCALE: 1/2"=1'-0"



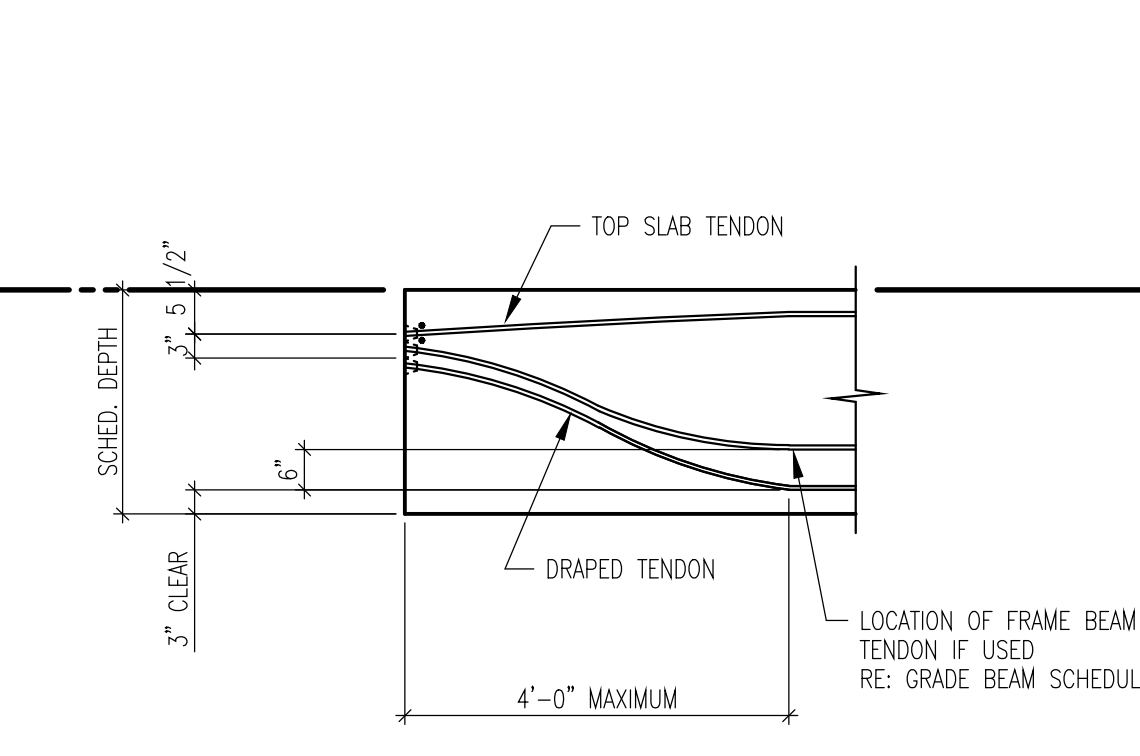
16 DOUBLE BEAM CONSTRUCTION JOINT
SCALE: 1/2"=1'-0"



17 CONSTRUCTION JOINT W/ THK. SLAB
SCALE: 1/2"=1'-0"



18 THICKENED SLAB
SCALE: 1/2"=1'-0"



19 DRAPED TENDON BEAM ELEVATION
SCALE: 1/2"=1'-0"

STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P:(281)683-7088 F:(281)683-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

FOUNDATION SECTIONS AND DETAILS

Drawn By: HT
Checked By: DMH/ZA
Drawing Scale: As Noted
Project No. 136-089

ISSUED FOR: SD 30%
Coordination
CD 95%
CD 100%
Pricing
Bidding
Permit
Construction

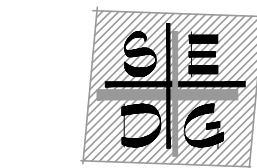
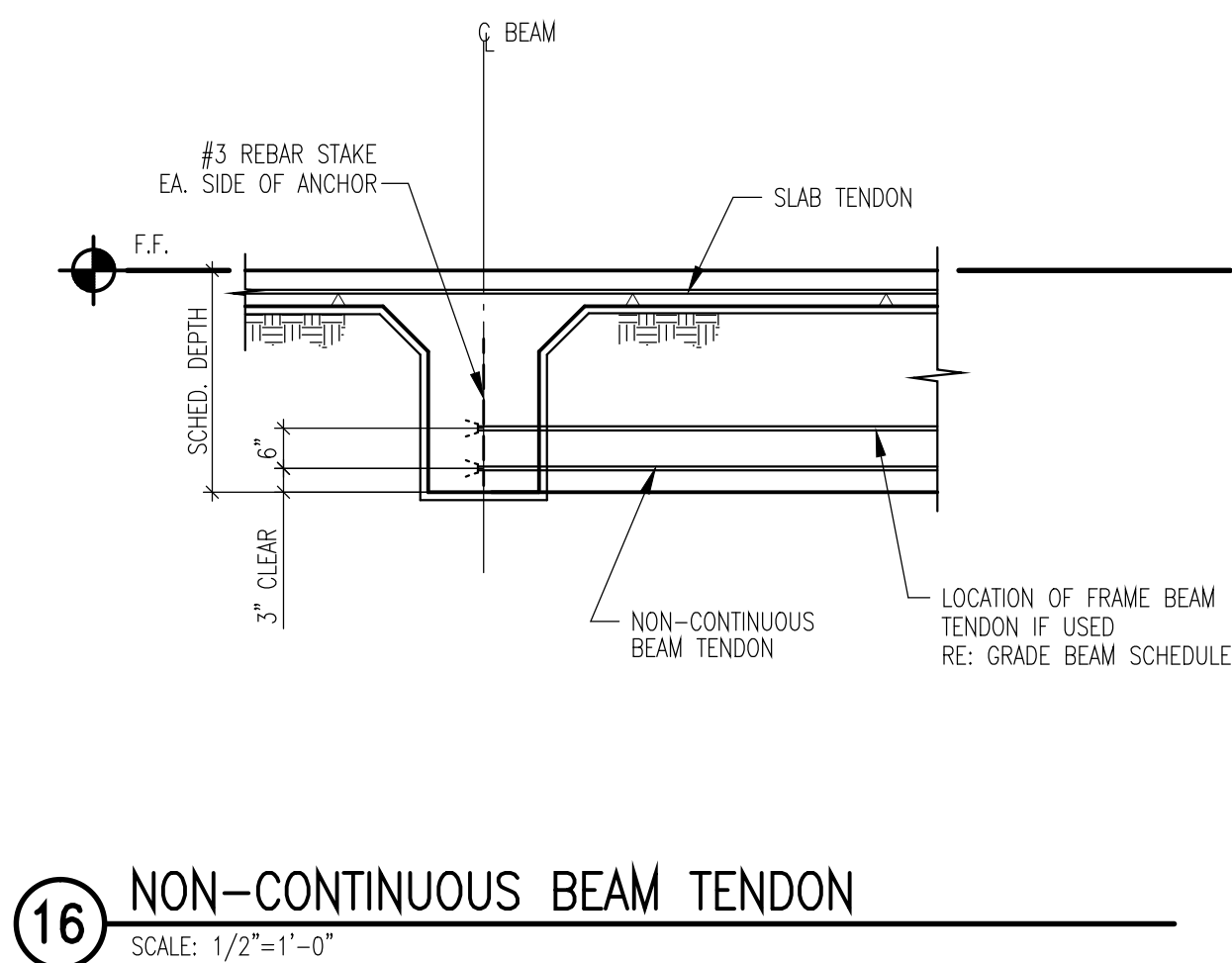
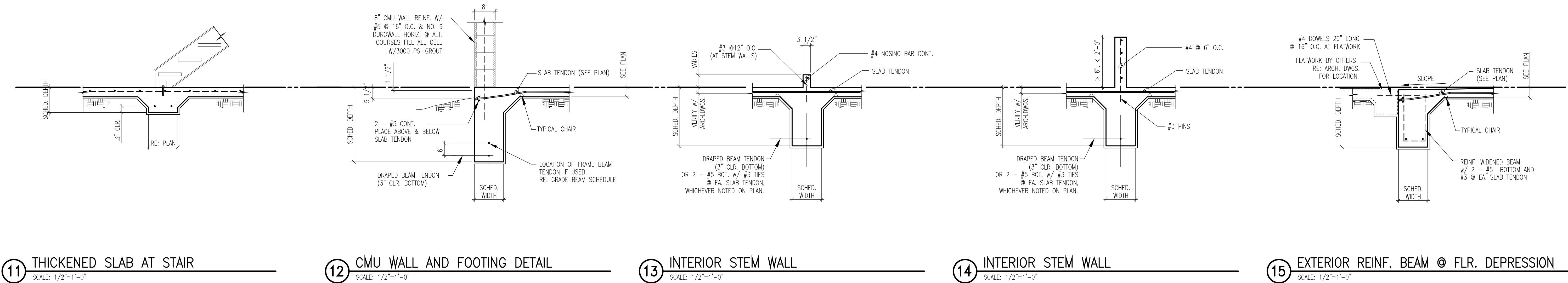
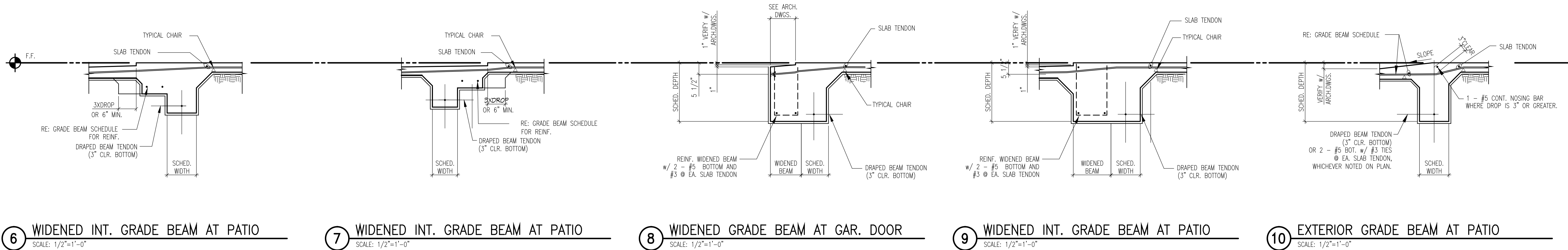
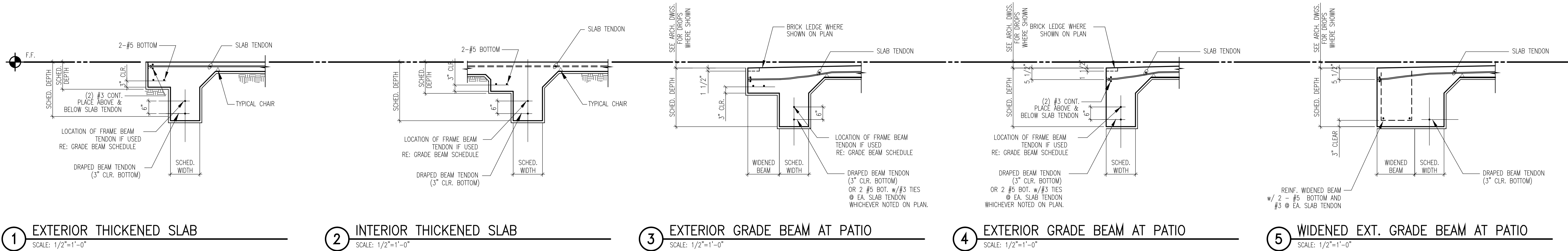
DATE: 05/23/2019

05/23/2019
Texas Registered Engineering Firm
F-19122

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONSTRUCTION - DRINK SECTIONS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY TO SDG LLC AND SHOULD NOT BE USED, REPRODUCED OR DISCLOSED WITHOUT ITS EXPRESS WRITTEN PERMISSION. THE INFORMATION HEREIN IS PART OF A PATENT PENDING PROCESSING.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY FORBIDDEN.

SHEET NO.
SD1-1
SECTIONS

C:\\$136 - KELLY GROSSMAN\136-089 Norwood Apartments\Structural Drawings\Working Drawings\SD1-2.dwg Plotted: May 23, 2019 - 9:32 AM by Hoo Tran



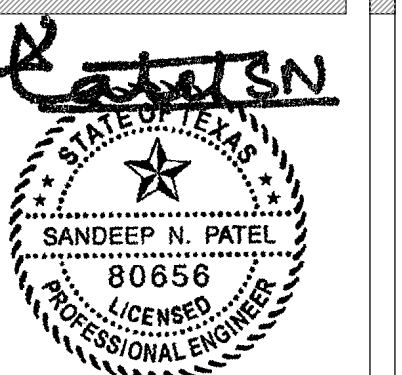
STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P.(281)583-7088 F.(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

Sheet Title: FOUNDATION SECTIONS AND DETAILS

Rev.	Description	Date

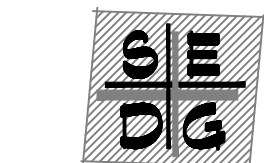
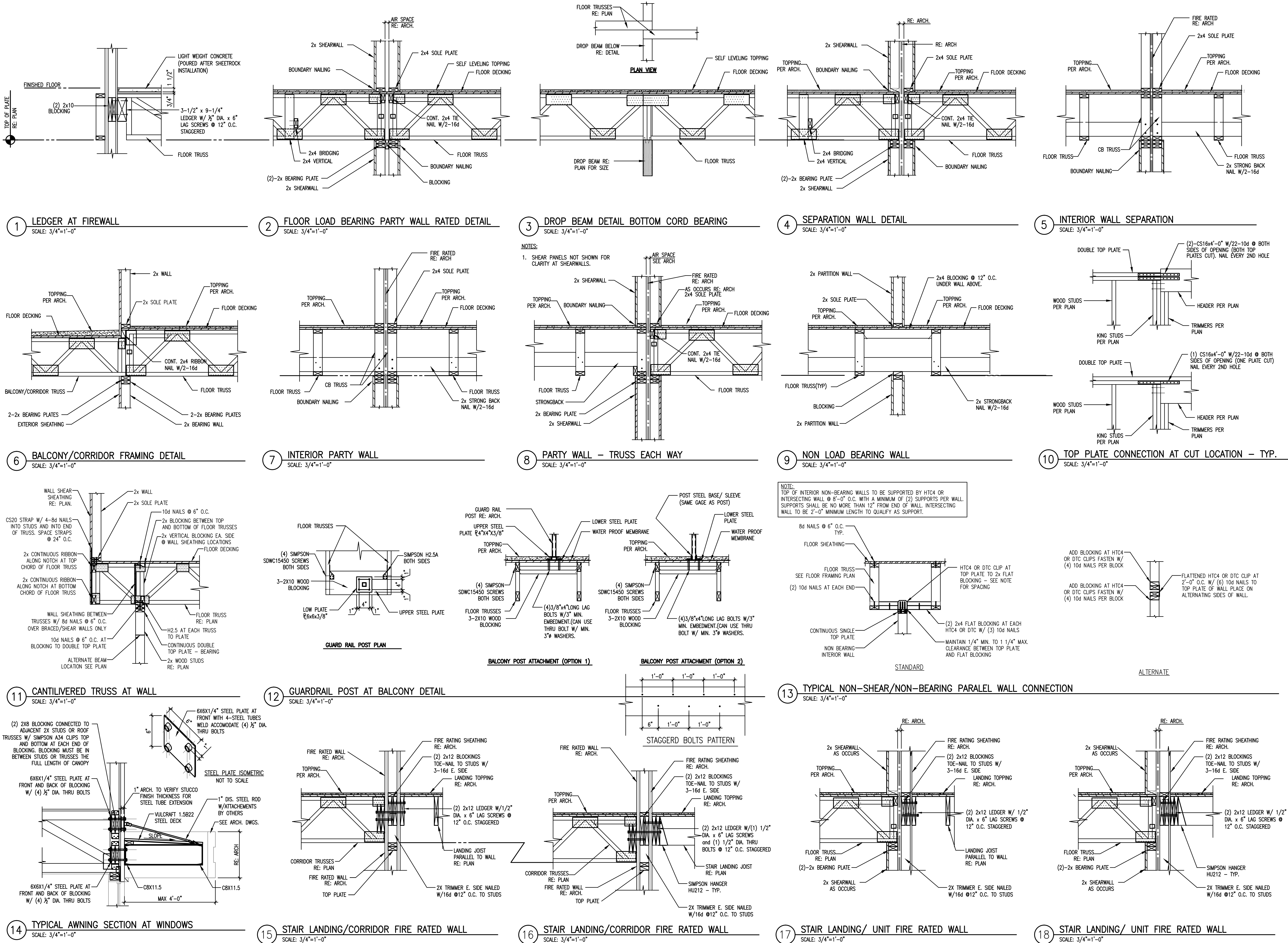
Drawn By: HT	Checked By: DWH/ZA
Drawing Scale: As Noted	Project No. 136-089
ISSUED FOR:	DATE:
<input type="checkbox"/> SD 30%	
<input type="checkbox"/> Coordination	
<input type="checkbox"/> CD 95%	
<input type="checkbox"/> CD 100%	
<input type="checkbox"/> Pricing	
<input type="checkbox"/> Bidding	
<input checked="" type="checkbox"/> Permit	05/23/2019
<input type="checkbox"/> Construction	



05/23/2019
Texas Registered Engineering Firm
F-18122
THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH 100% USE AND SHOULD NOT BE USED, DISCLOSED OR DISSEMINATED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE INFORMATION HEREIN IS PART OF A DESIGN PROCESS/WORKING PROCESS/WORKING
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREIN IS STRICTLY PROHIBITED

SHEET NO.
SD1-2
SECTIONS

G:\136 - KELLY GROSSMAN\136-089 Norwood Apartments\Structural Drawings\Working Drawings\SD2-2.dwg Plotted: May 23, 2019 - 9:32 AM by Hao Tran



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P.(281)583-7088 F.(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

FLOOR FRAMING SECTIONS & DETAILS

Sheet Title:

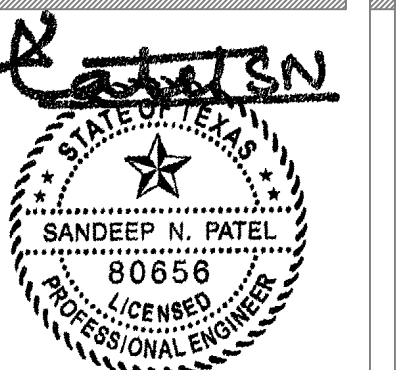
Date

Description

Rev.

Drawn By: HT
Checked By: DW/ZA
Drawing Scale: As Noted
Project No. 136-089

ISSUED FOR: DATE:
☐ SD 30%
☐ Coordination
☐ CD 95%
☐ CD 100%
☐ Pricing
☐ Bidding
☒ Permit
☐ Construction
05/23/2019

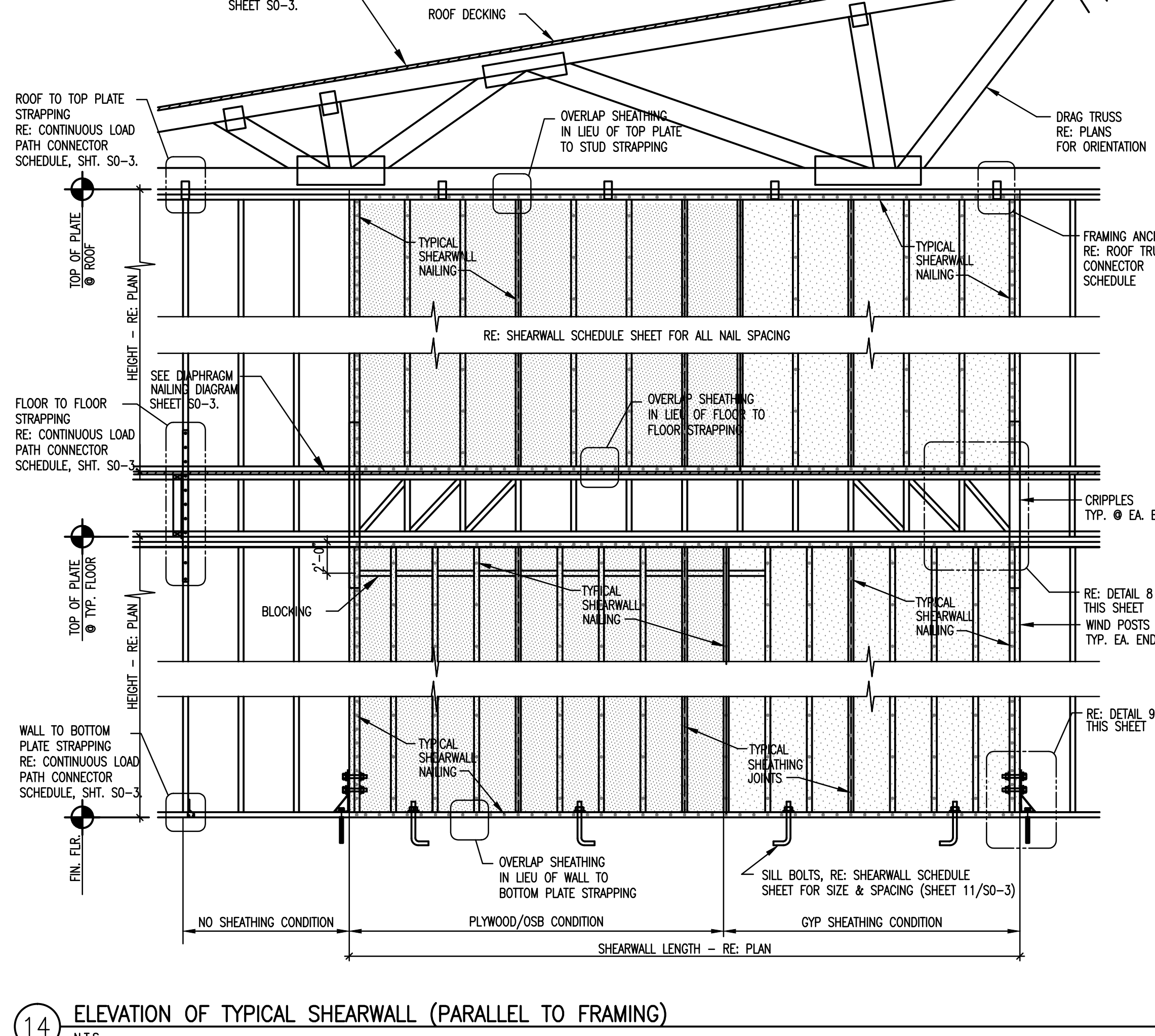
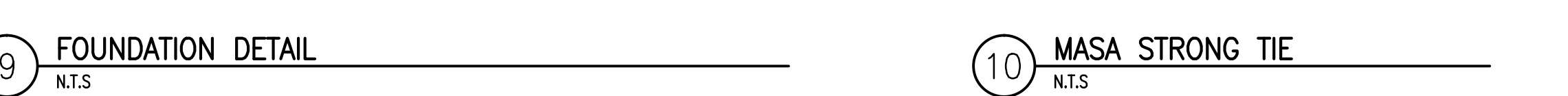
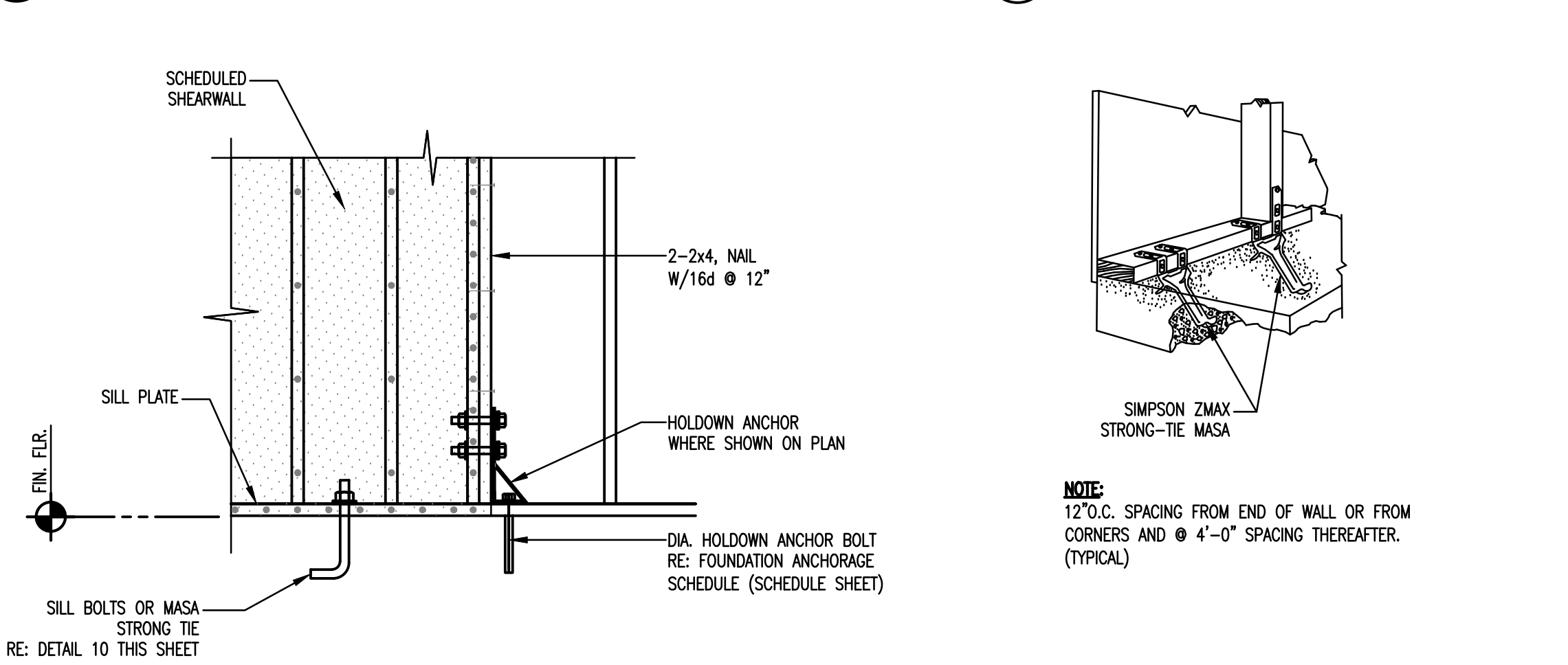
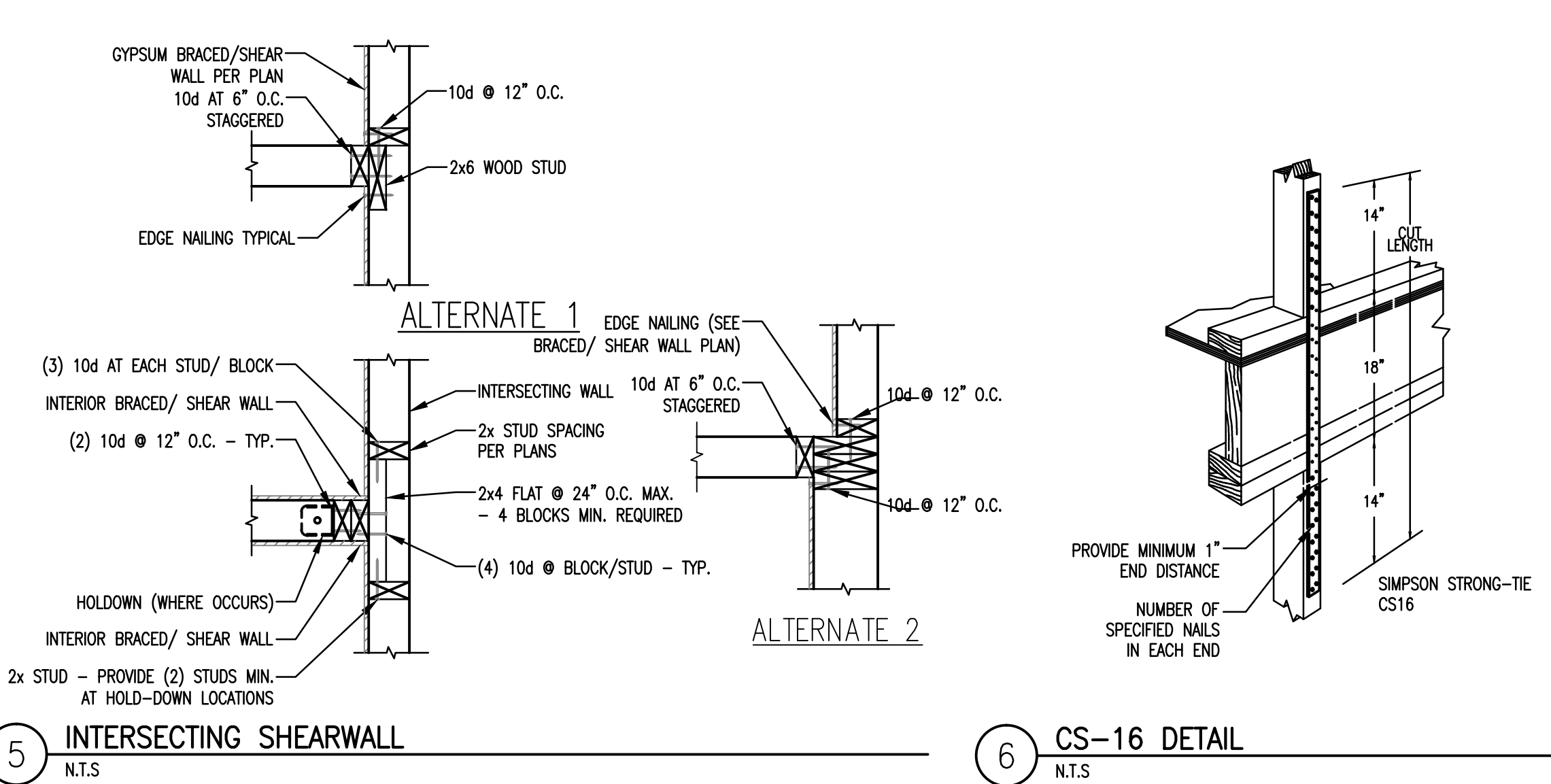
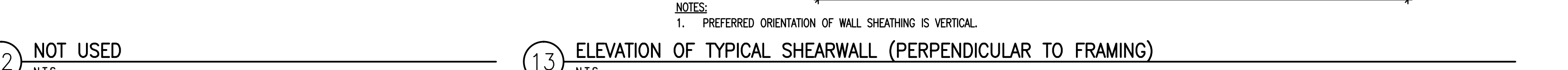
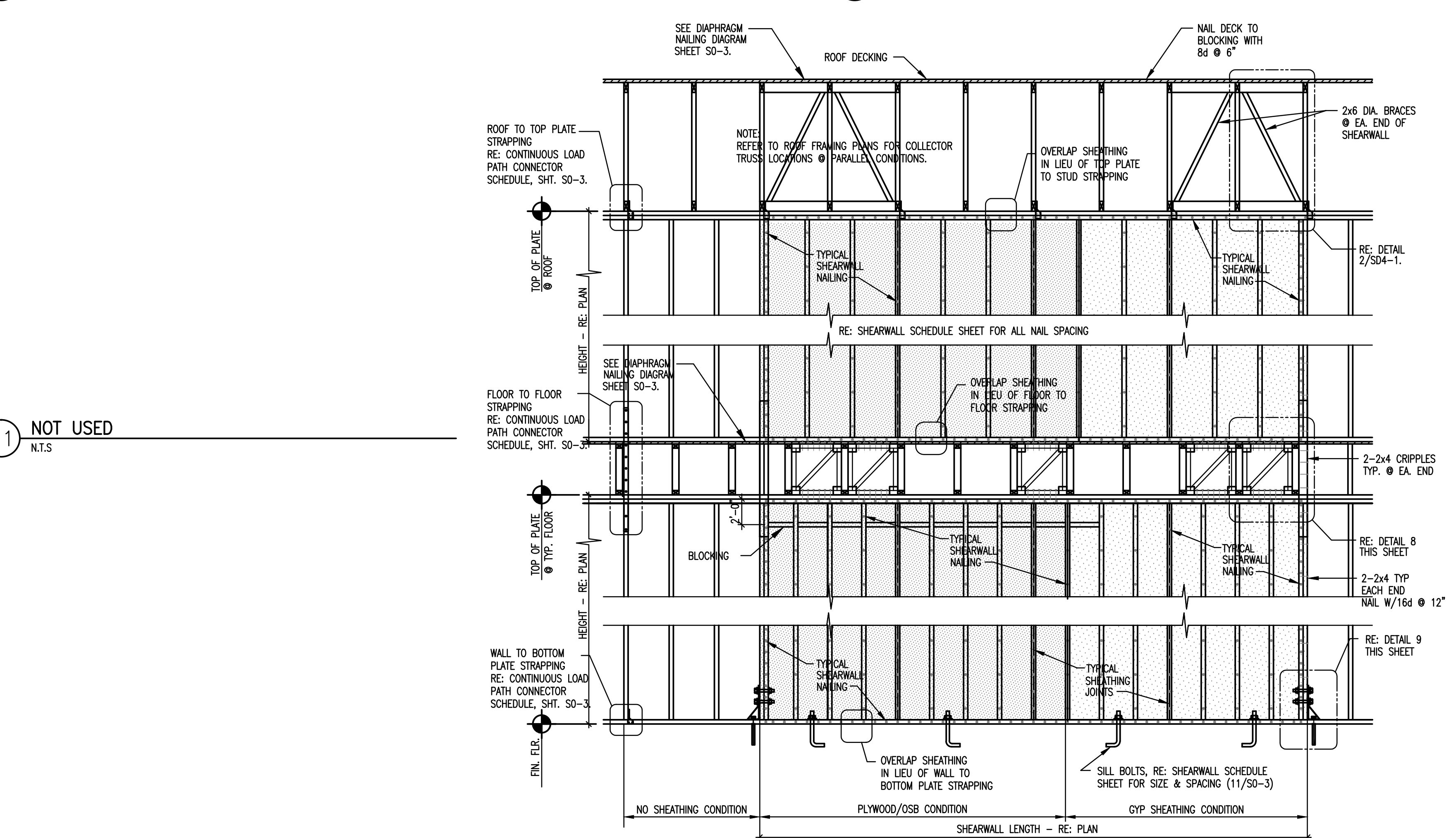
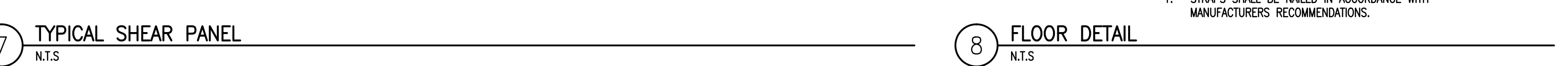
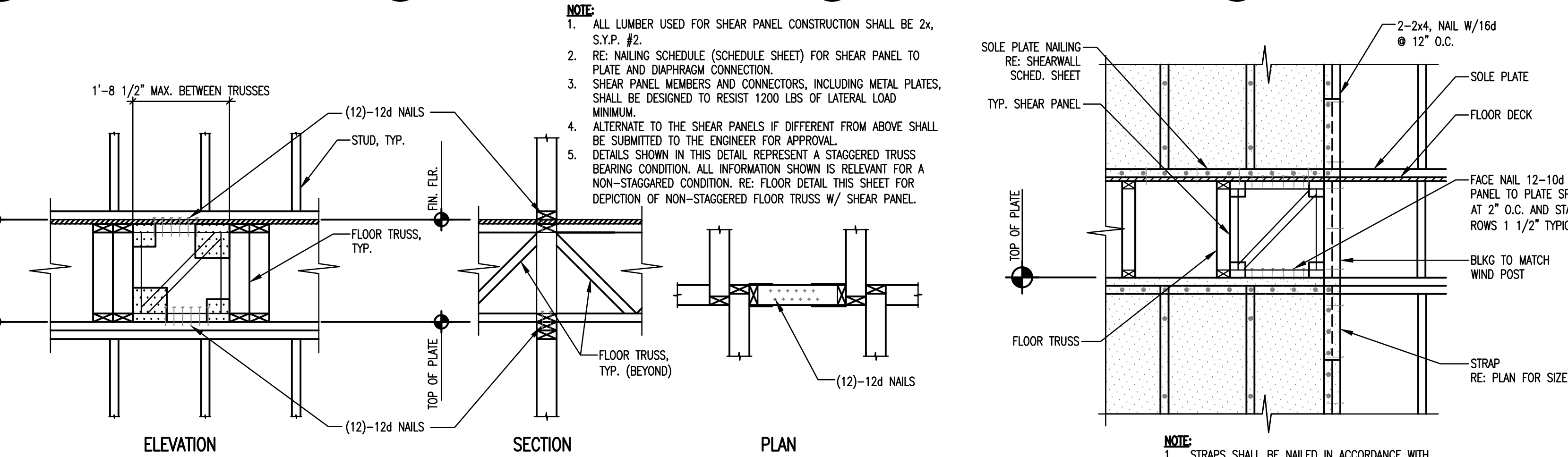
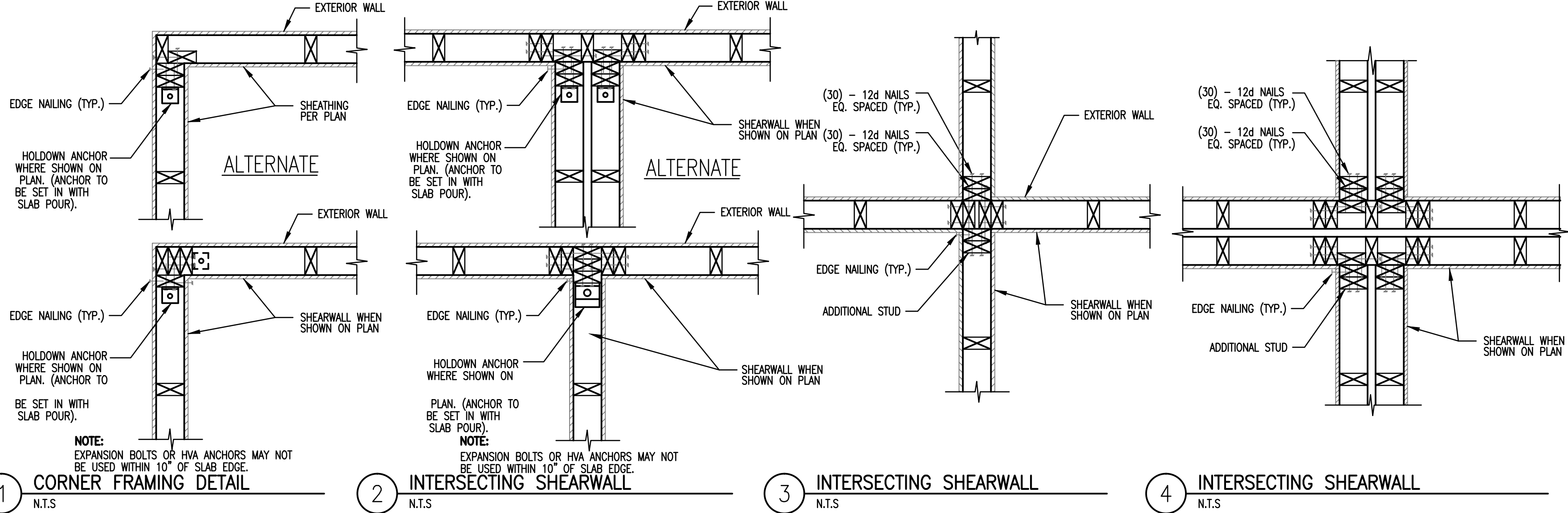


05/23/2019
Texas Registered Engineering Firm
F-19122
THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH "BEST USE" AND SHOULD NOT BE REPRODUCED OR DISCLOSED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE INFORMATION HEREIN IS PART OF A DESIGN PROCESSING MATERIAL.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREOF IS STRICTLY PROHIBITED.

SHEET NO.

SD2-2
SECTIONS

G:\\$136 - KELLY GROSSMAN\136-089 Norwood Apartments\Structural Drawings\Working Drawings\SD3-1.dwg Plotted: May 23, 2019 - 9:32 AM by Hao Tran



STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P.(281)583-7088 F.(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

SHEET TITLE: SHEARWALL SECTIONS AND DETAILS

Rev.	Description	Date

Drawn By: HT
Checked By: DW/ZA
Drawing Scale: As Noted
Project No. 136-089

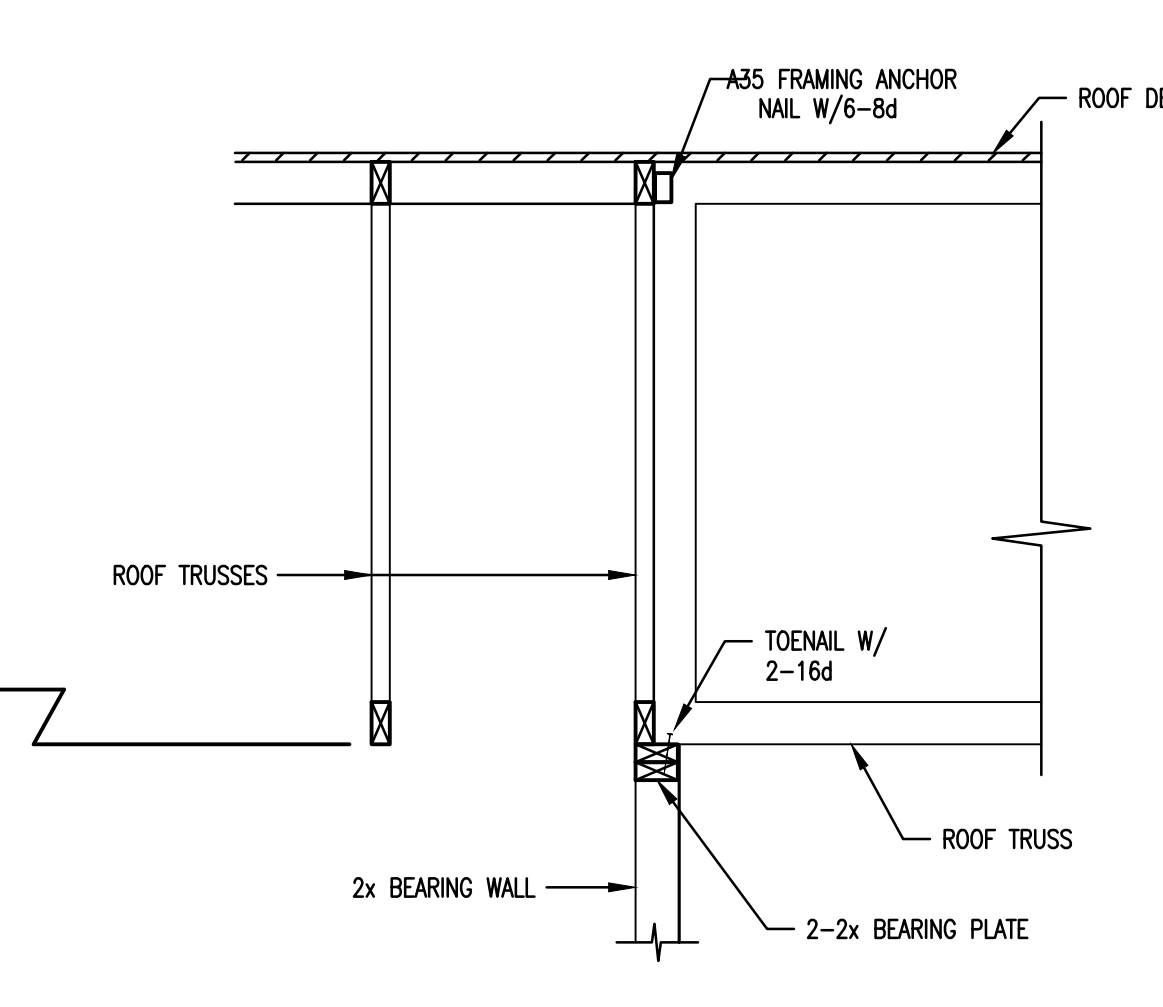
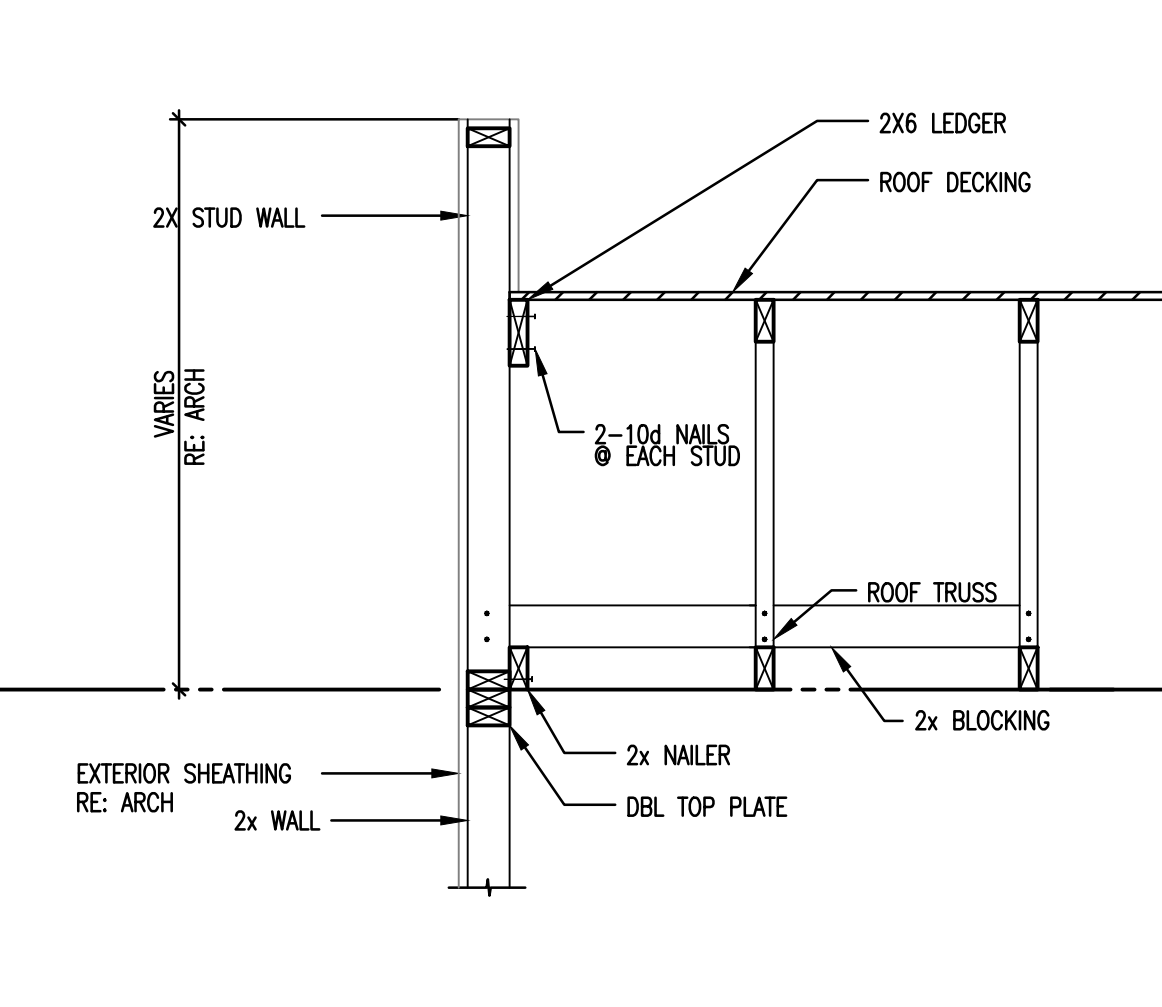
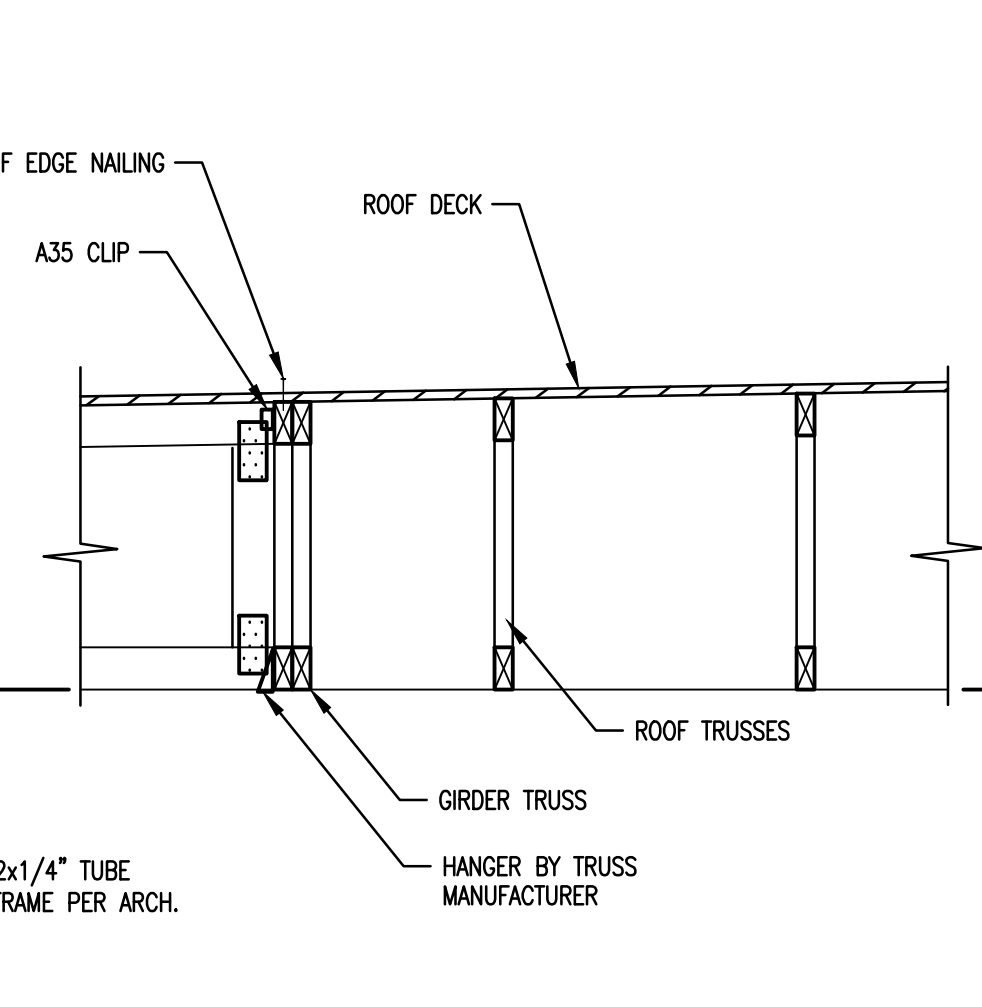
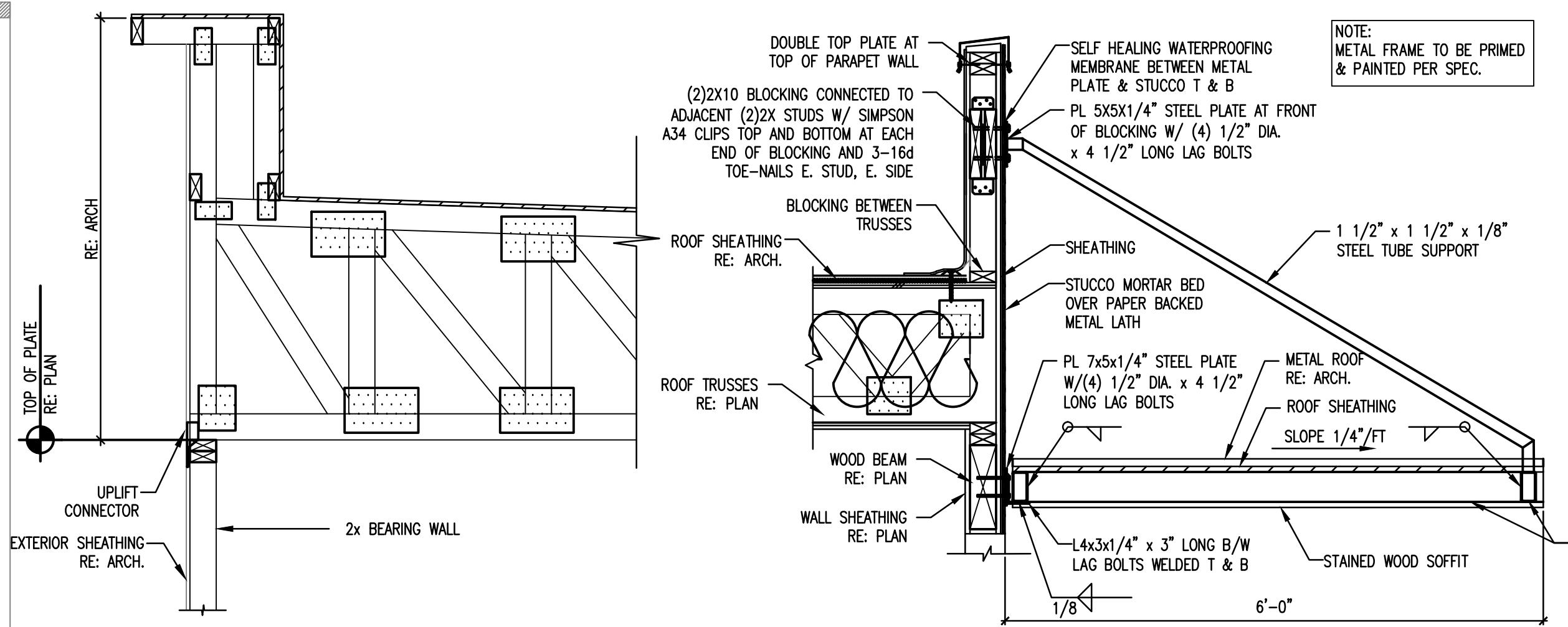
ISSUED FOR: DATE: 05/23/2019

☐ SD 30%
☐ Coordination
☐ CD 95%
☐ CD 100%
☐ Pricing
☐ Bidding
☐ Permit
☐ Construction

05/23/2019
Texas Registered Engineering Firm
F-19122
THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH 3000 USE, AND SHOULD NOT BE REPRODUCED OR DISCLOSED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE INFORMATION HEREIN IS PART OF A DESIGN PROCESS/PROPOSAL.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREIN IS STRICTLY FORBIDDEN.

SHEET NO. SD3-1
DETAILS

G:\\$136 - KELLY GROSSMAN\136-089 Norwood Apartments\Structural Drawings\SD4-1_FLAT ROOF.dwg Plotted: May 23, 2019 - 9:32 AM by Hao Tran



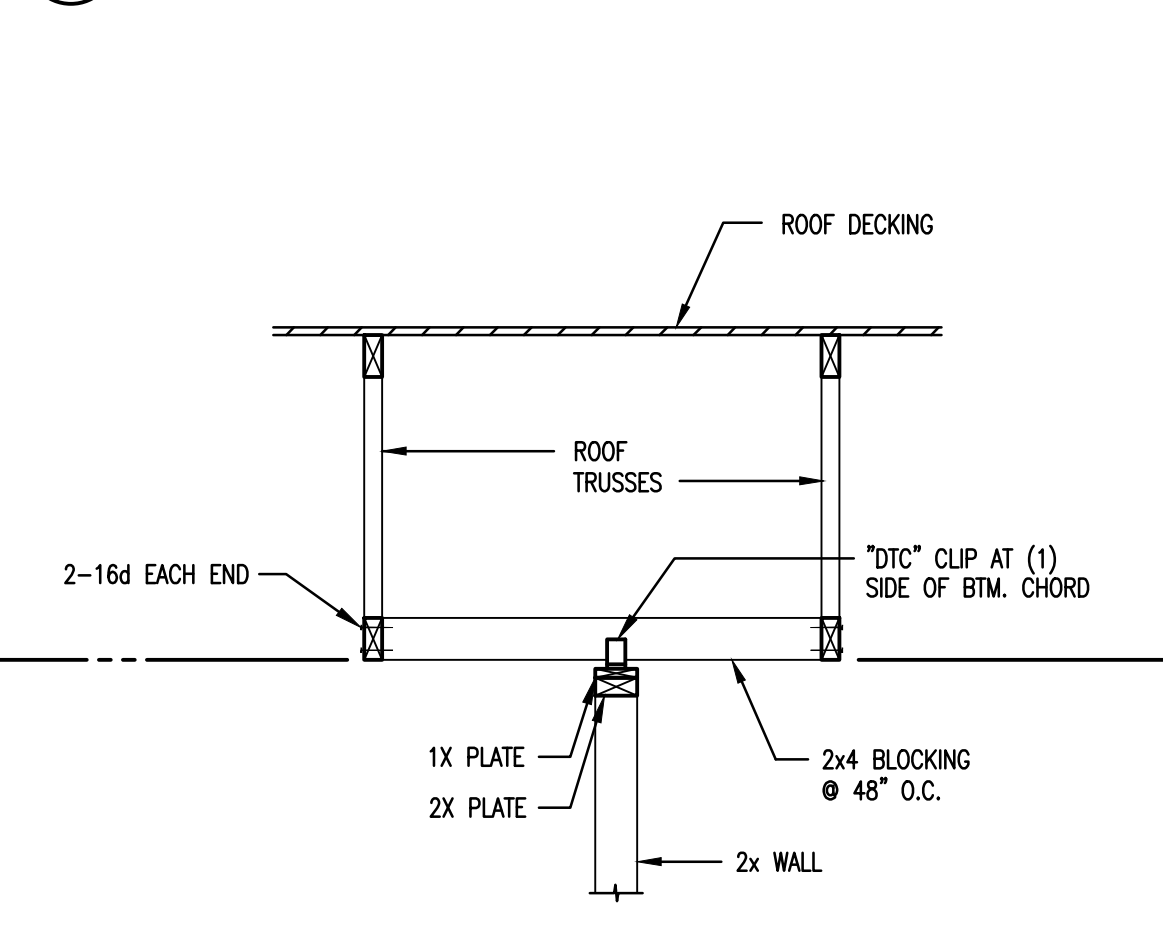
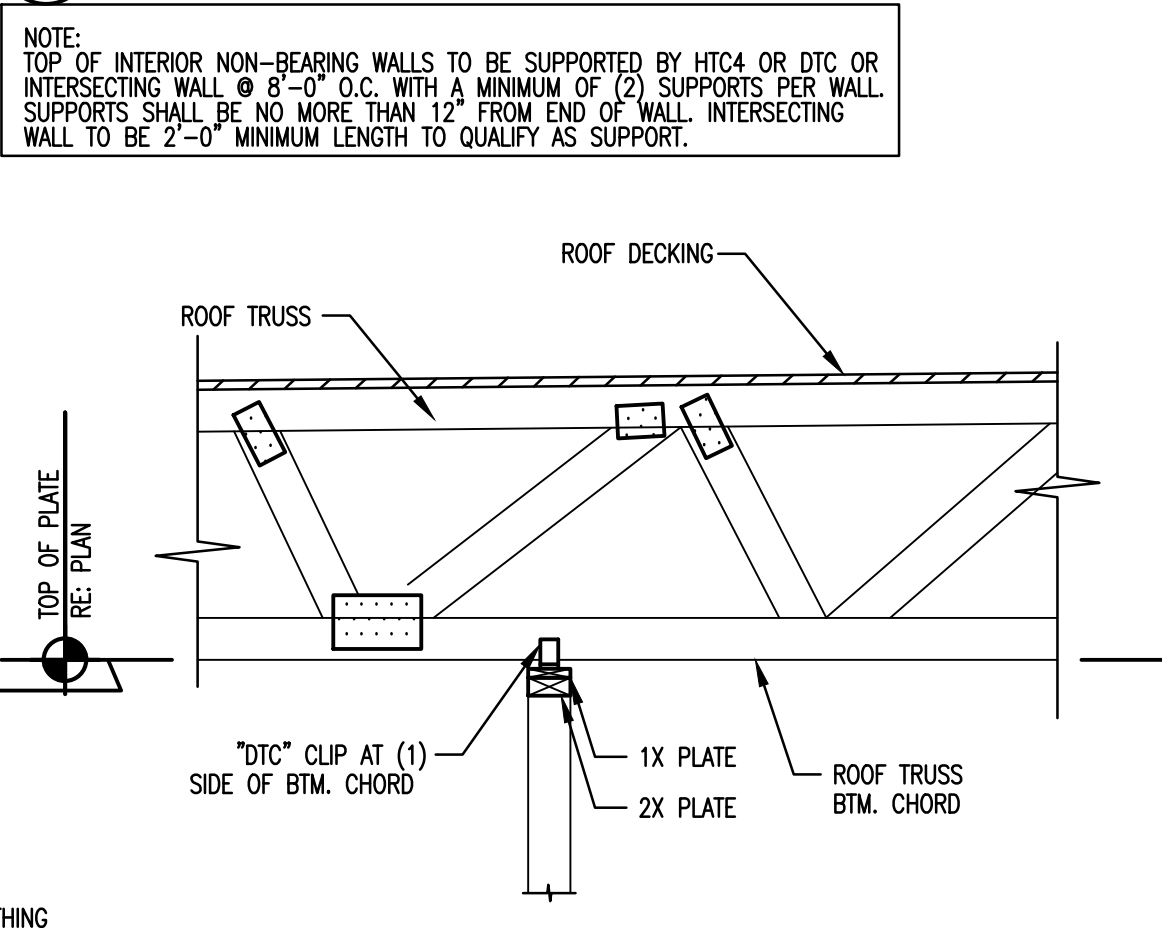
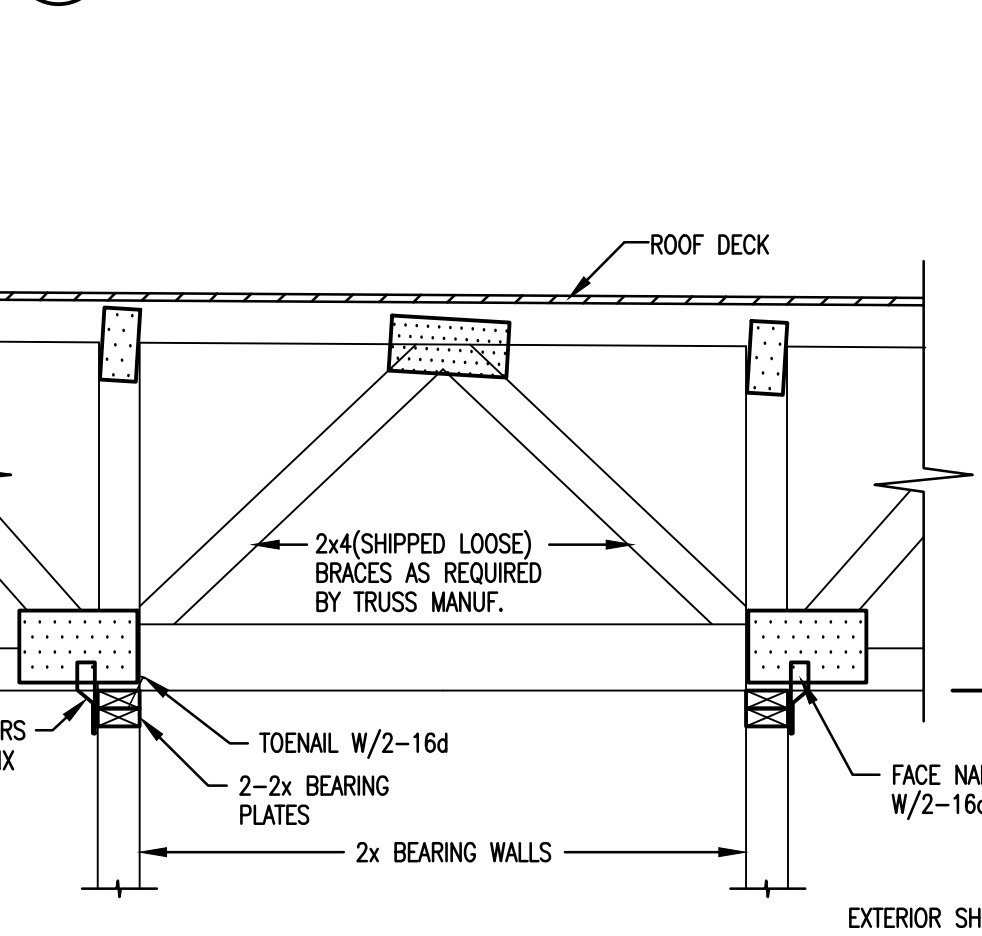
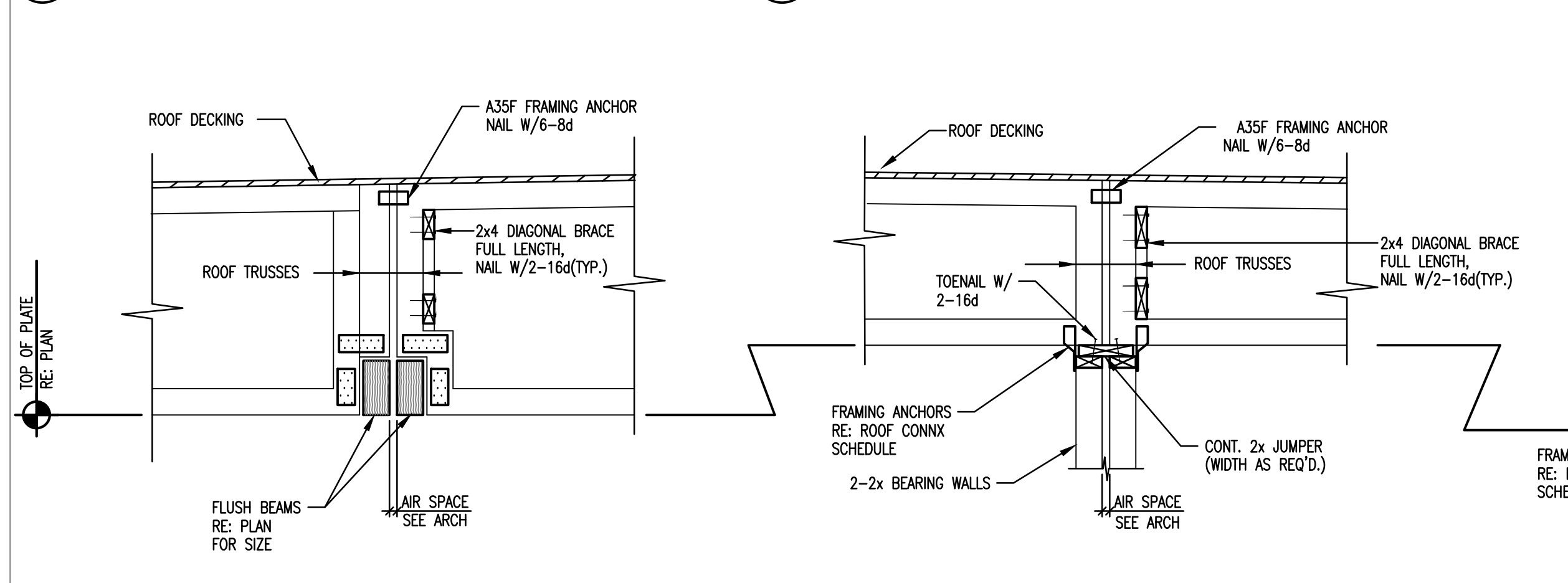
1 PARAPET TRUSS PERP. TO EXT. WALL
SCALE: 3/4"=1'-0"

2 AWNING DETAIL
SCALE: 3/4"=1'-0"

3 GIRDER TRUSS FRAMING
SCALE: 3/4"=1'-0"

4 PARAPET WALL DETAIL
SCALE: 3/4"=1'-0"

5 INTERIOR LOAD BEARING WALL DETAIL
SCALE: 3/4"=1'-0"



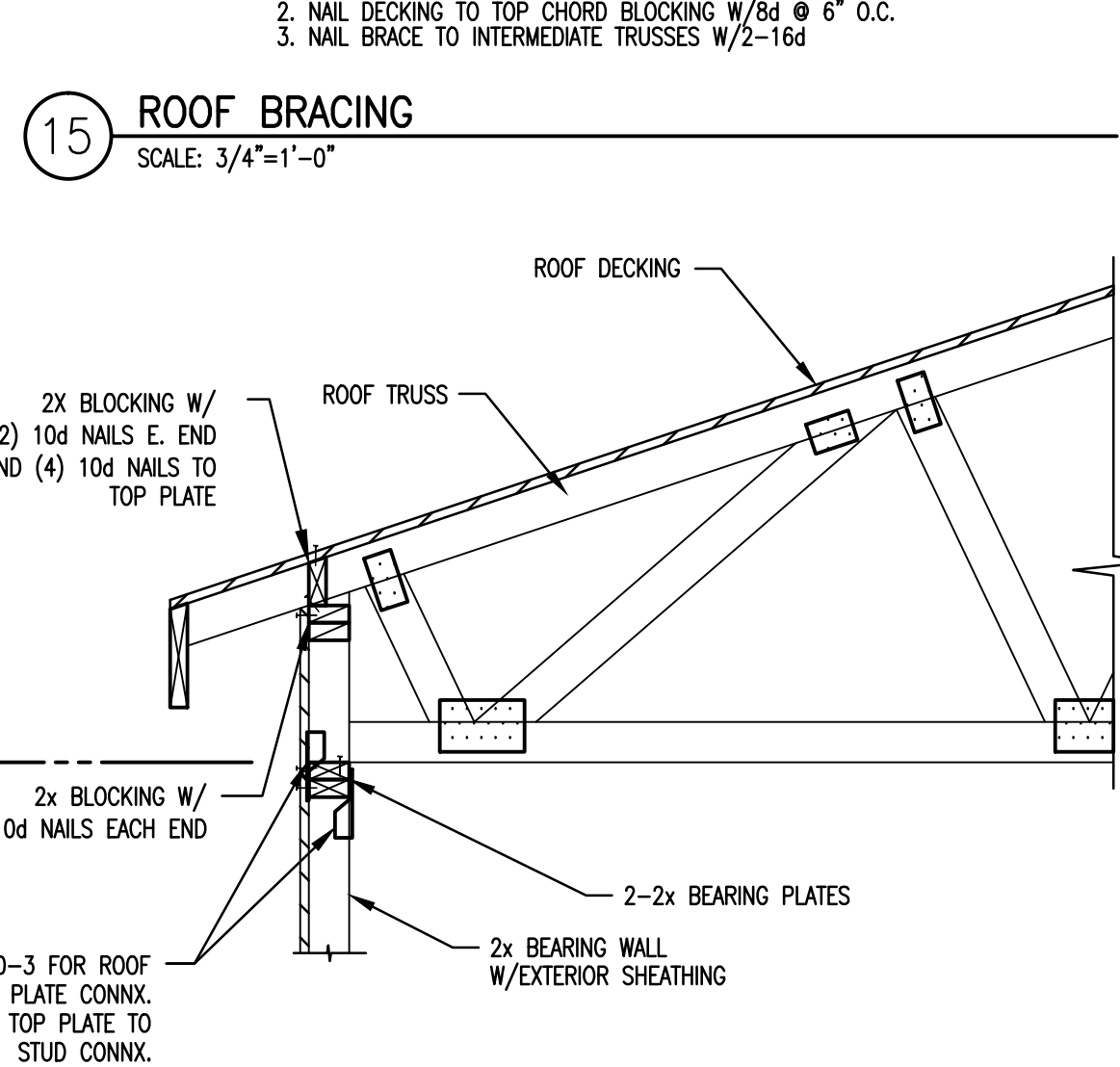
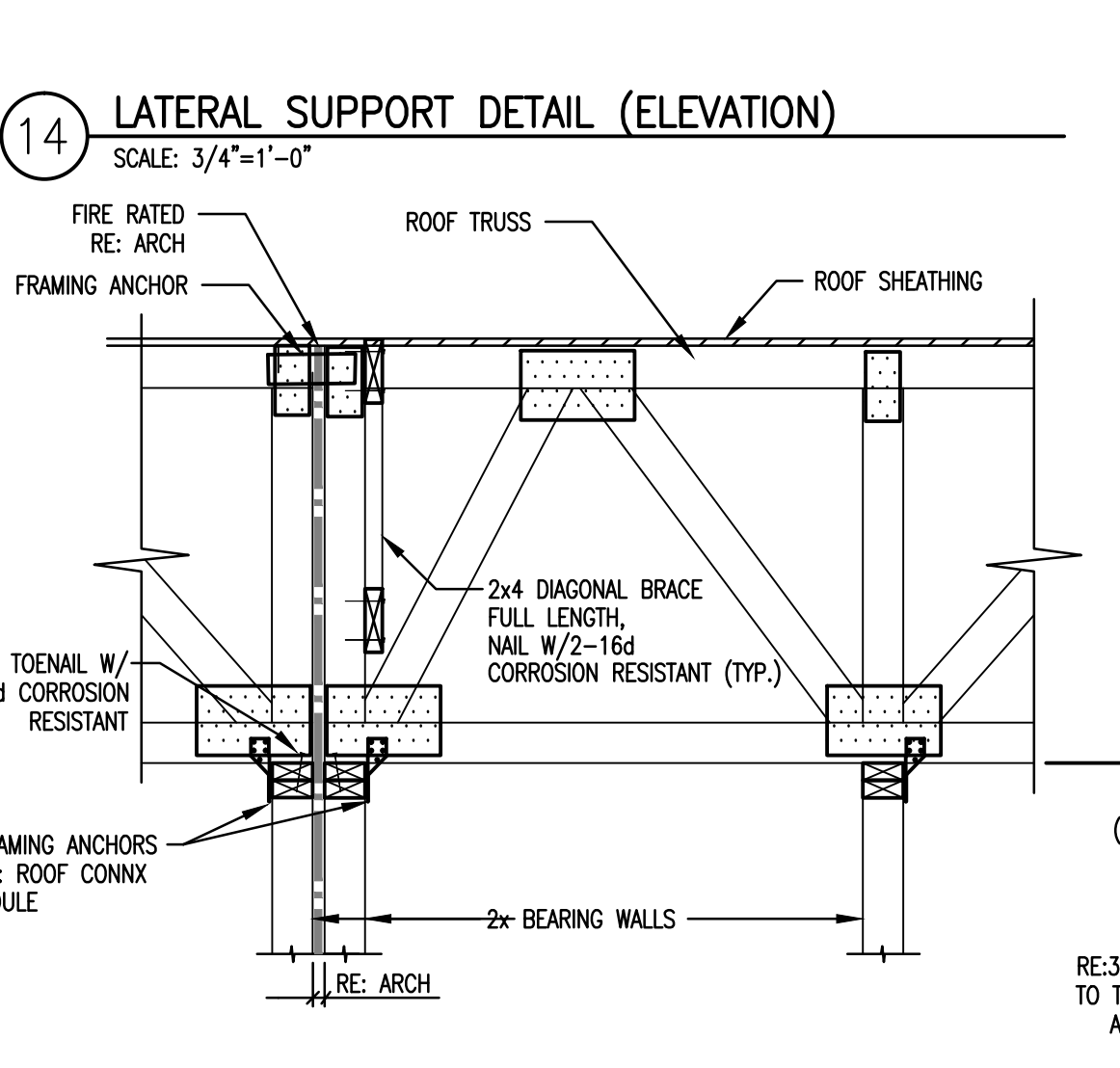
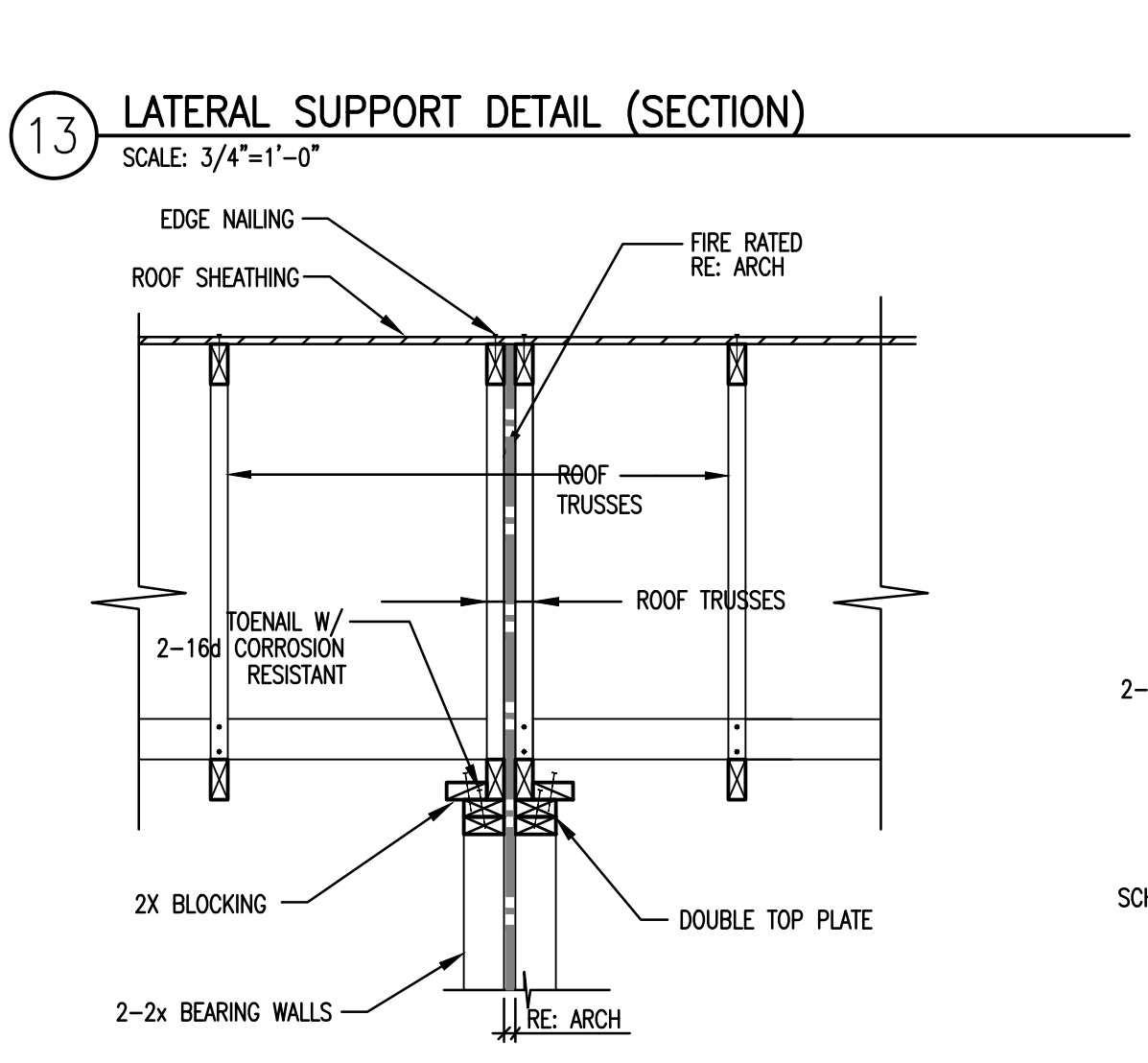
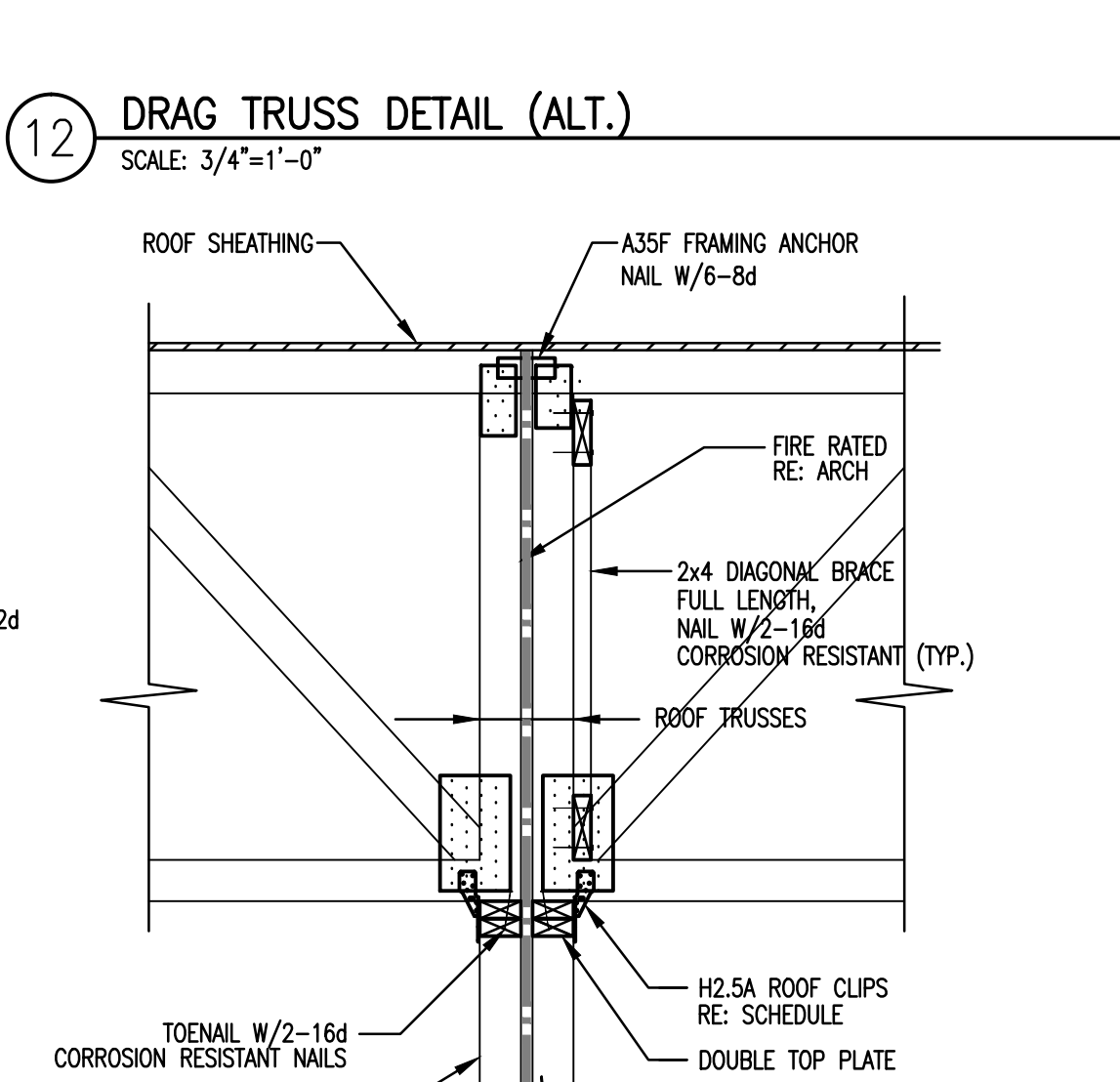
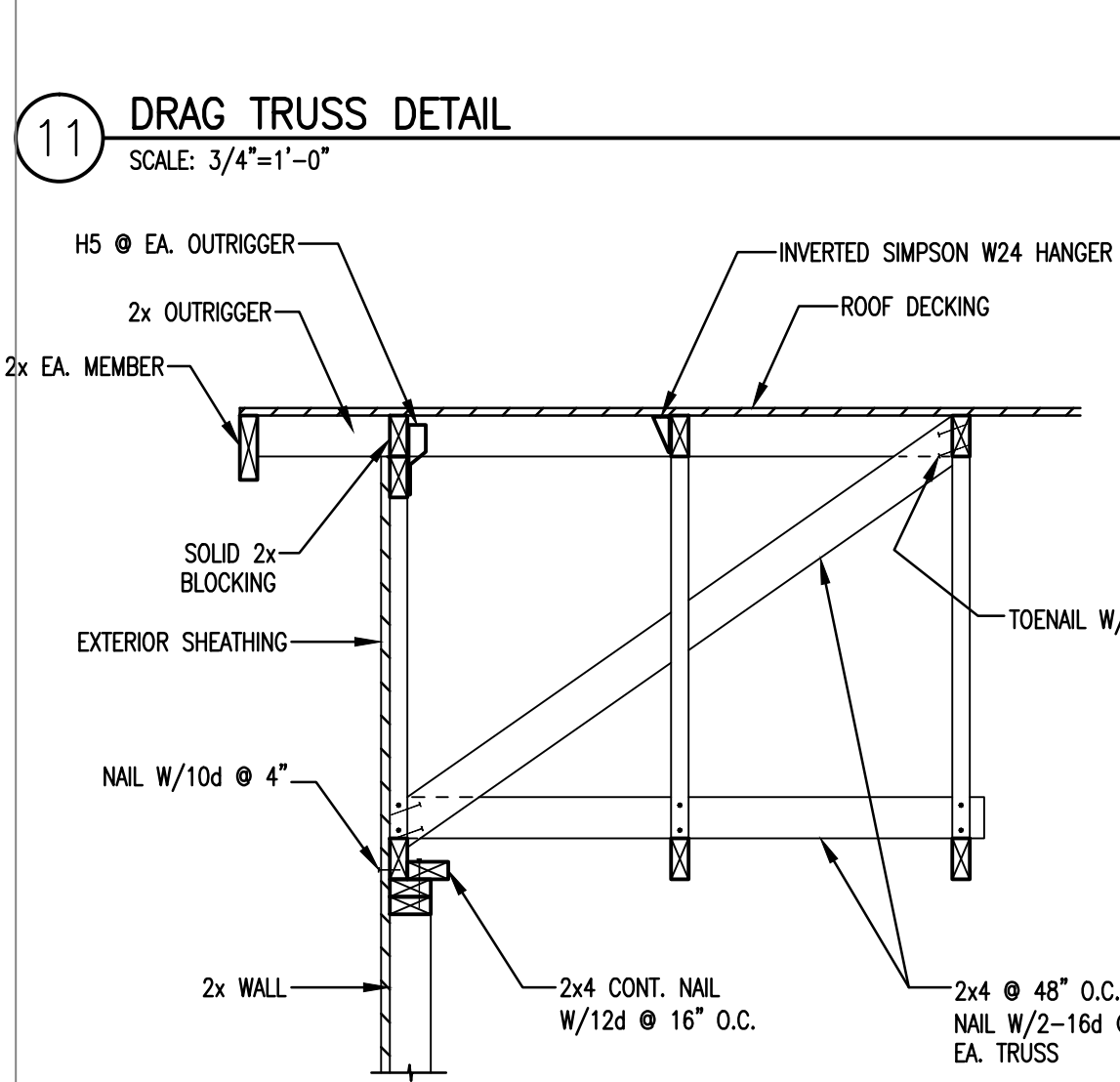
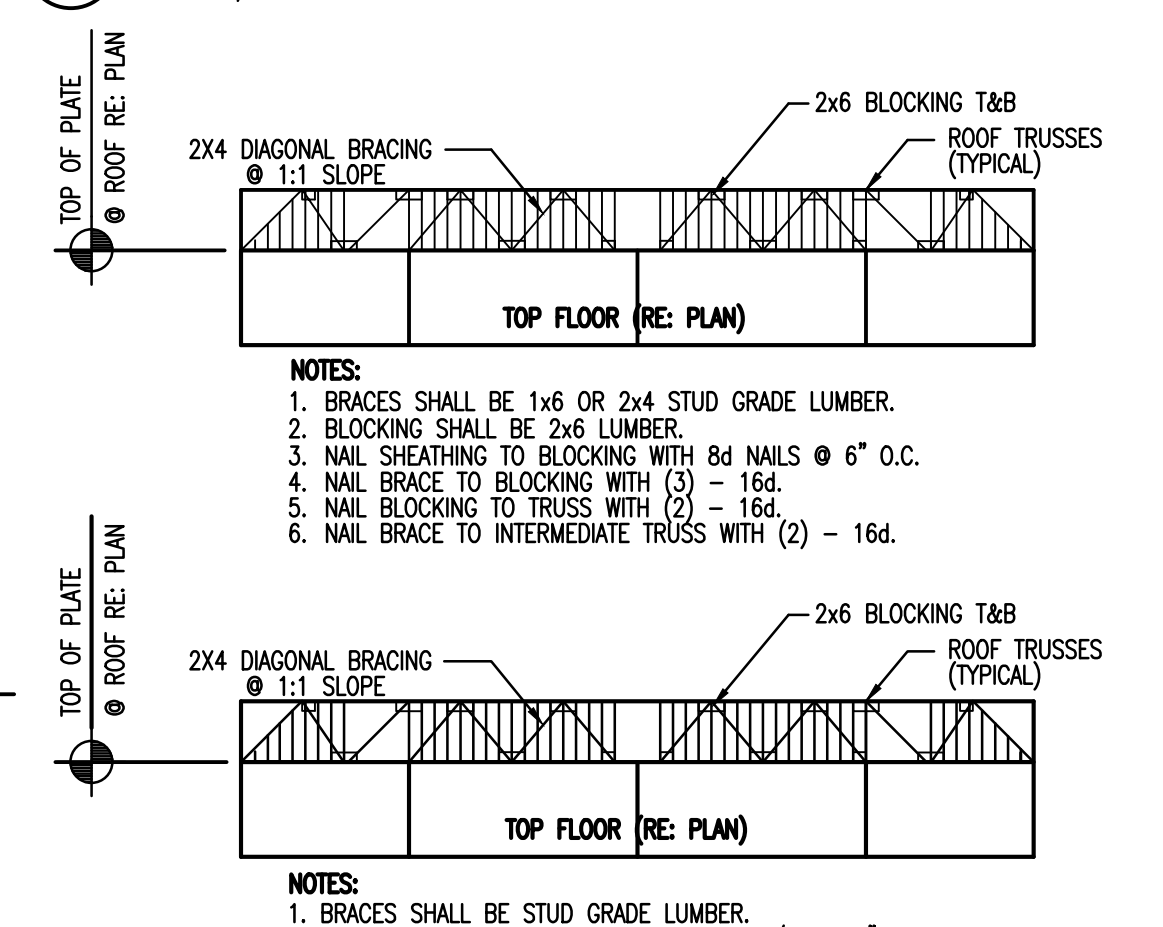
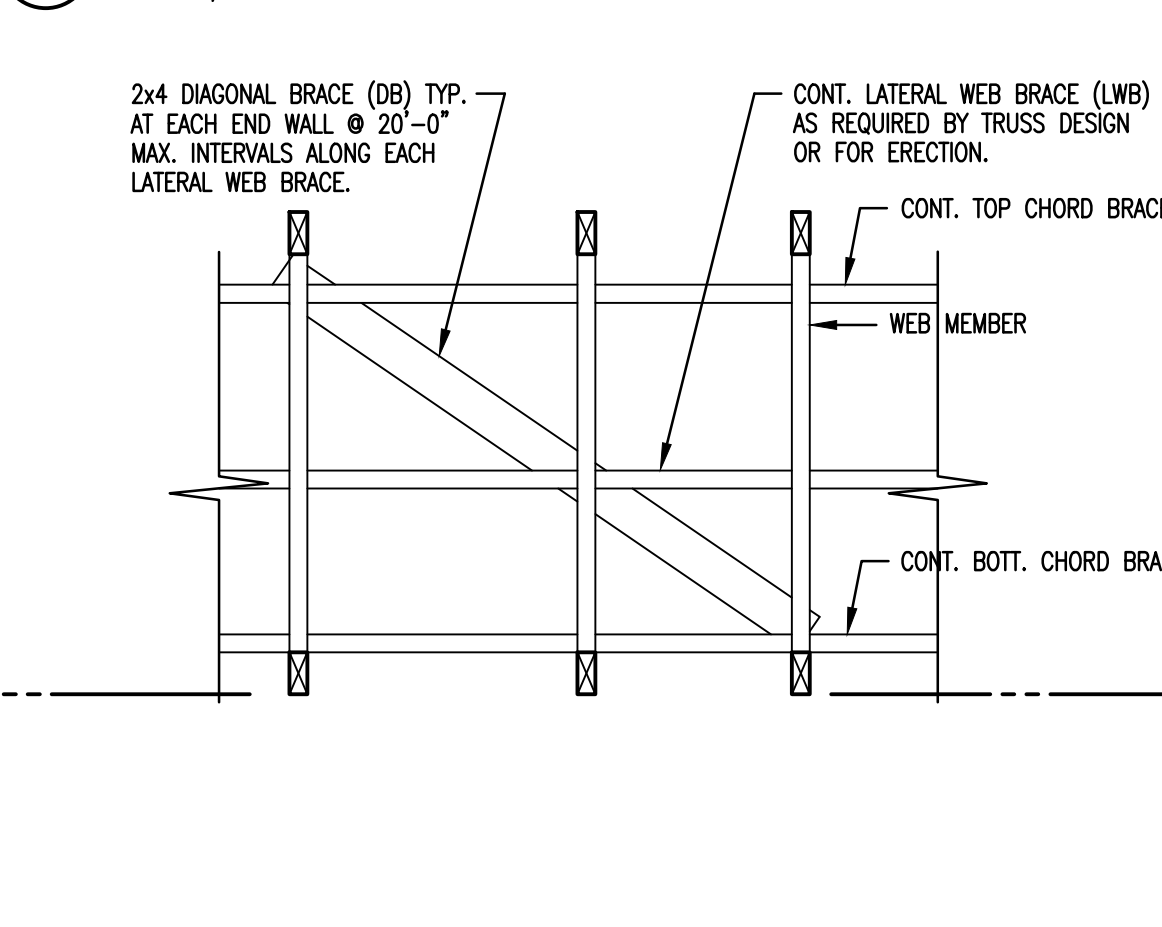
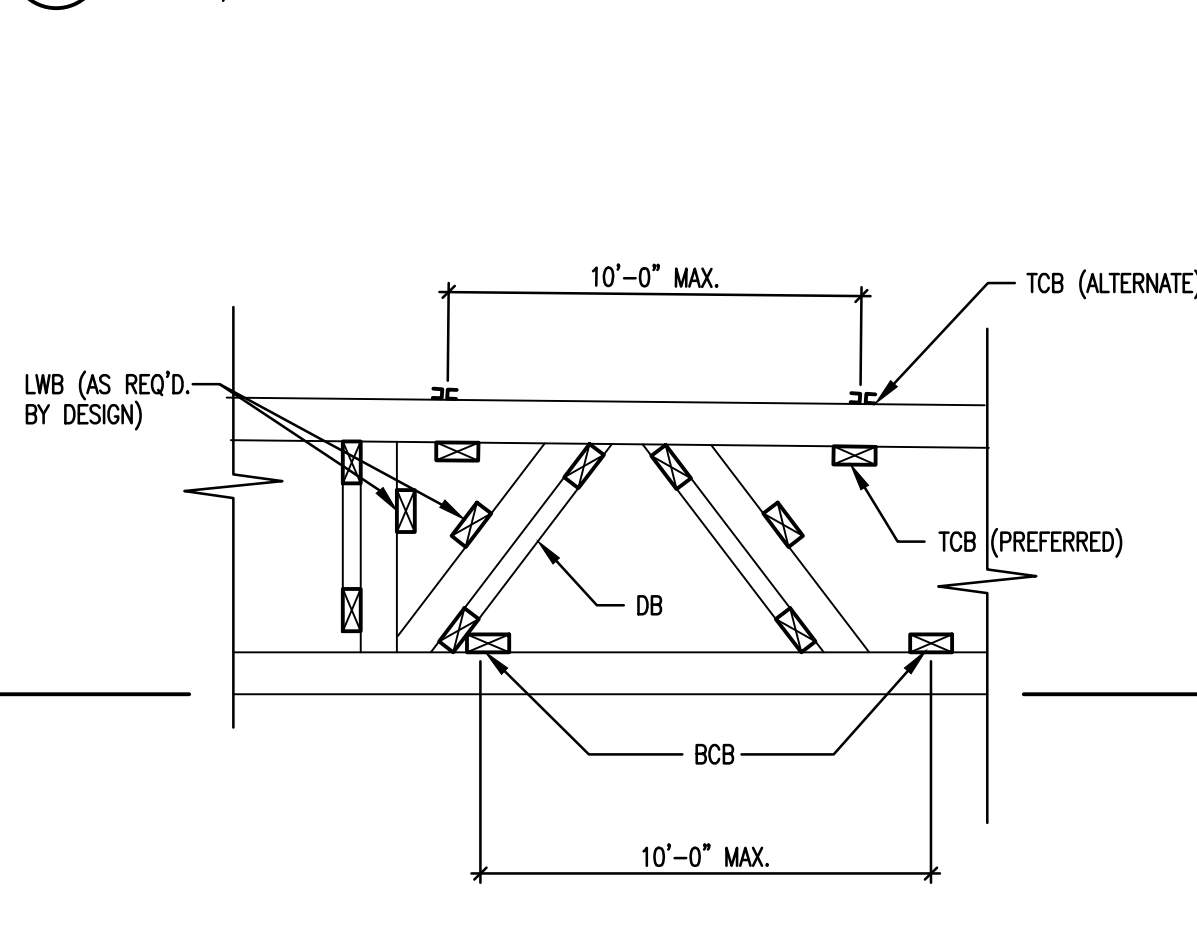
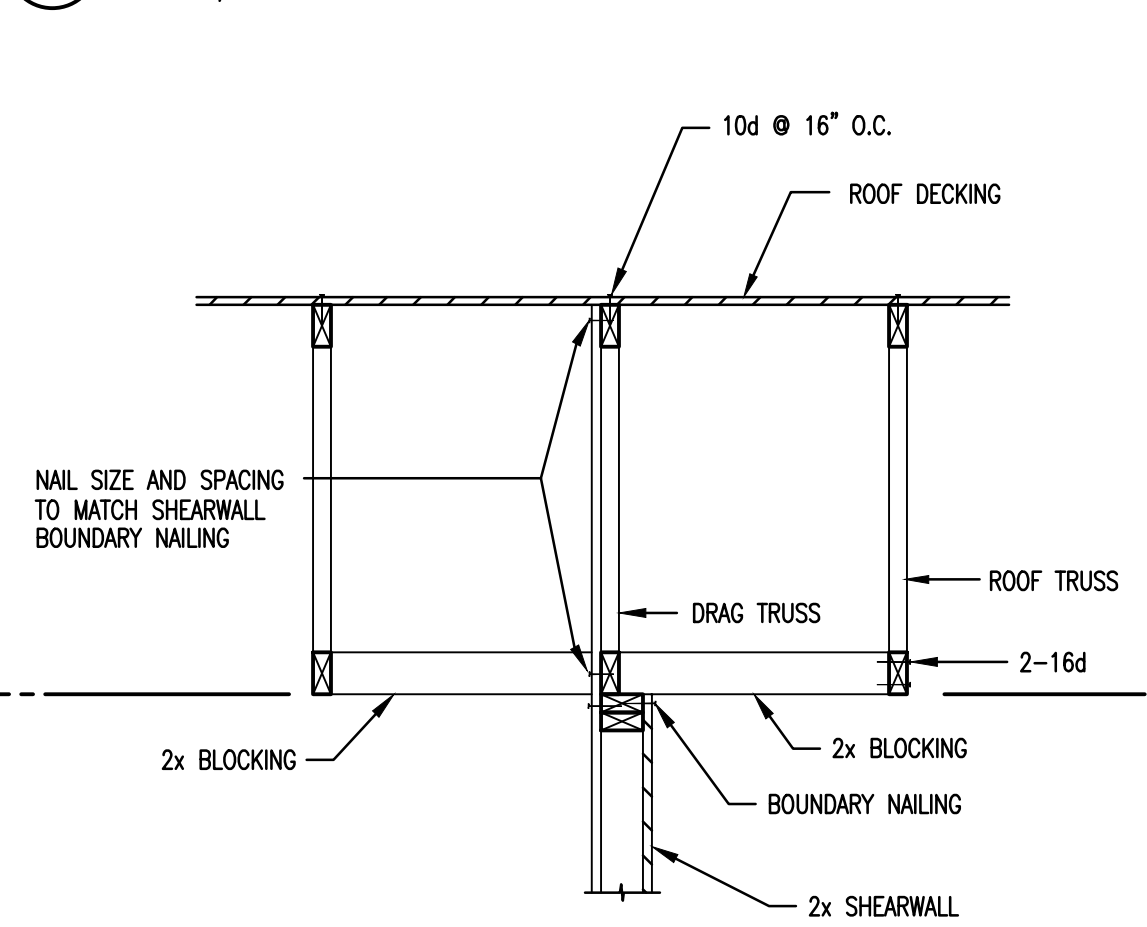
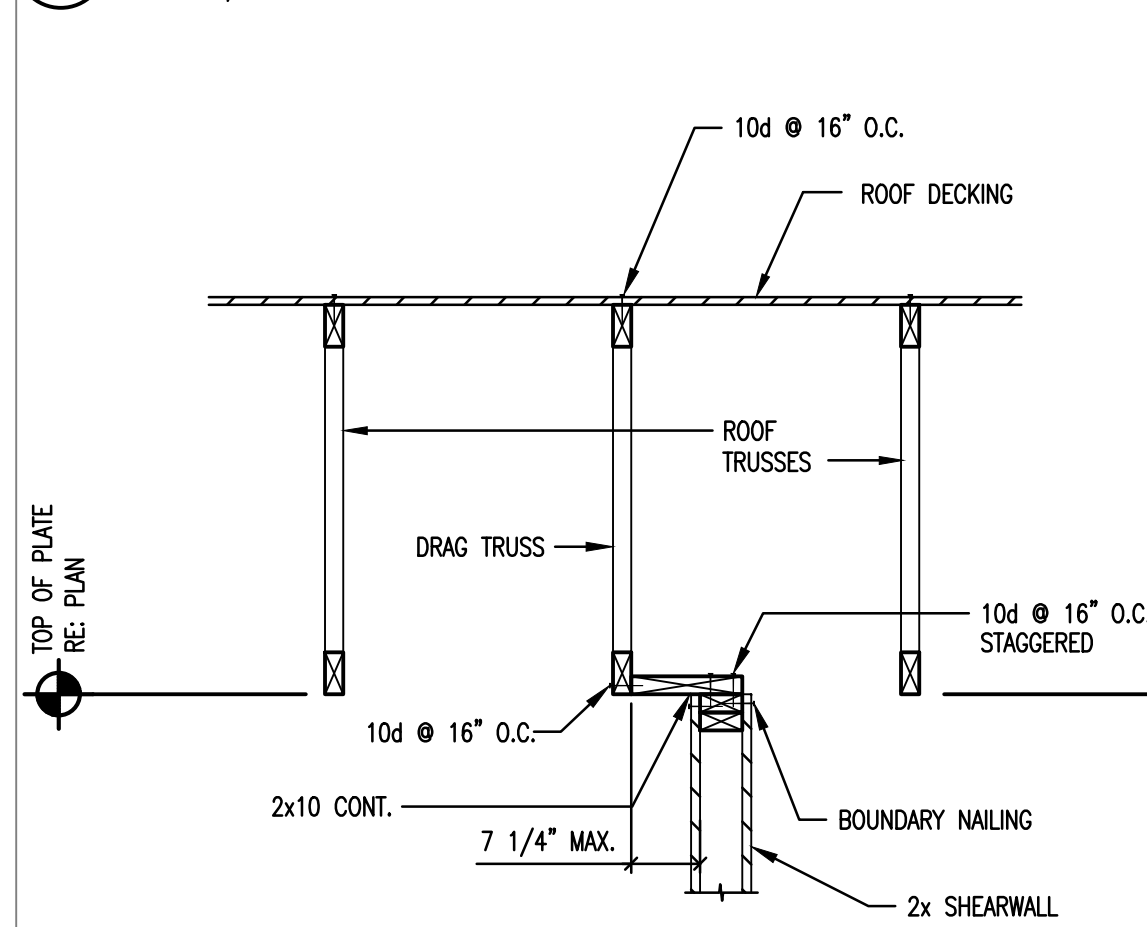
6 FLUSH BEAM DETAIL
SCALE: 3/4"=1'-0"

7 LOAD BEARING PARTY WALL
SCALE: 3/4"=1'-0"

8 INTERIOR LOAD BEARING WALL DETAIL
SCALE: 3/4"=1'-0"

9 ROOF TRUSS PERPENDICULAR TO NON-LOAD BEARING INTERIOR WALL
SCALE: 3/4"=1'-0"

10 ROOF TRUSS PARALLEL TO NON-LOAD BEARING INTERIOR WALL
SCALE: 3/4"=1'-0"



16 ROOF OVERHANG DETAIL
SCALE: 3/4"=1'-0"

17 WALL SEPARATION
SCALE: 3/4"=1'-0"

18 TENANT SEPARATION WALL
SCALE: 3/4"=1'-0"

19 INTERIOR LOAD BEARING WALL AT WALL SEPARATION
SCALE: 3/4"=1'-0"

20 STUB END TRUSS AT EXTERIOR WALL
SCALE: 3/4"=1'-0"

STERLING ENGINEERING
DESIGN GROUP
14025 West Road
Suite # 201
Houston, Texas 77041
P.(281)583-7088 F.(281)583-5495

NORWOOD PARK APARTMENTS
AUSTIN, TEXAS
A Development By [LDG]
Architecture By [KELLY GROSSMAN]

Sheet Title: **FLAT ROOF FRAMING DETAILS**

Rev.	Description	Date

Drawn By: HT
Checked By: DWH/ZA
Drawing Scale: As Noted
Project No. 136-089

ISSUED FOR: DATE:
☐ SD 30%
☐ Coordination
☐ CD 95%
☐ CD 100%
☐ Pricing
☐ Bidding
☒ Permit
☐ Construction

05/23/2019

05/23/2019
Texas Registered Engineering Firm
F-19122
THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.
CONFIDENTIAL - TRADE SECRETS
THE INFORMATION DISCLOSED HEREIN IS PROPRIETARY WITH "BEST" USE, AND SHOULD NOT BE REPRODUCED OR DISCLOSED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE INFORMATION HEREIN IS PART OF A DESIGN PROCESSING MATERIAL.
UNAUTHORIZED USE OR COPYING OF THIS OR ANY CONTENTS HEREIN IS STRICTLY FORBIDDEN

SHEET NO. **SD4-1**