

Legend		Quantity	Unit
1/S401	Description	546.24	ft
8/S401	5" thick concrete slab on fill reinf. w/ #3 @ 16" o.c.	23,275	sf
	8/S401	6.04	ft
	Augar cast piles	62	Count
	Concrete Pier Size: 24" x 24" x 3'-0" Refer det: 10/S401	14	Count
	F1	107	cu ft
	F2	488	cu ft
	F3	384	cu ft
	F4	294	cu ft
	F5	768	cu ft
	F6	486	cu ft
	F7	799	cu ft
	F8	242	cu ft
	F9	72	cu ft
	Grade beam @ sloped CLS Refer det: 9/S401	357	cu ft
	Line	1	Count
	PC2	320	cu ft
	PC6	3,840	cu ft
	PC12	2,816	cu ft
	Rectangle	24	Count

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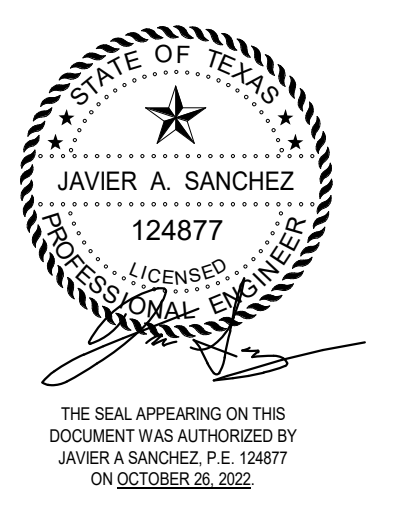
MEP ENGINEER
SPECTRUM DESIGN ENGINEERS
19 SIERRA OAKS DR.
SUGAR LAND, TEXAS 77479
832.766.6076

PRECAST CONCRETE SUPPLIER
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PROJECT:
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ISSUE HISTORY:

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07.28.2022		ISSUE FOR PERMIT
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10.26.2022	B	ADDENDUM 1

PROJECT NUMBER: LA2216

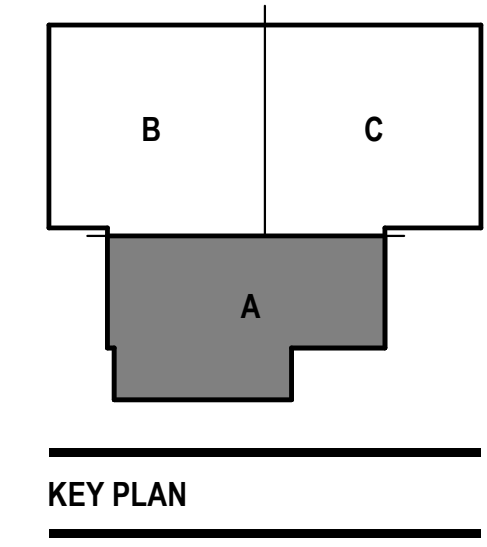
ISSUE DATE: 06/18/22

SHEET NAME:

FOUNDATION PLAN - AREA 'A'

SHEET:

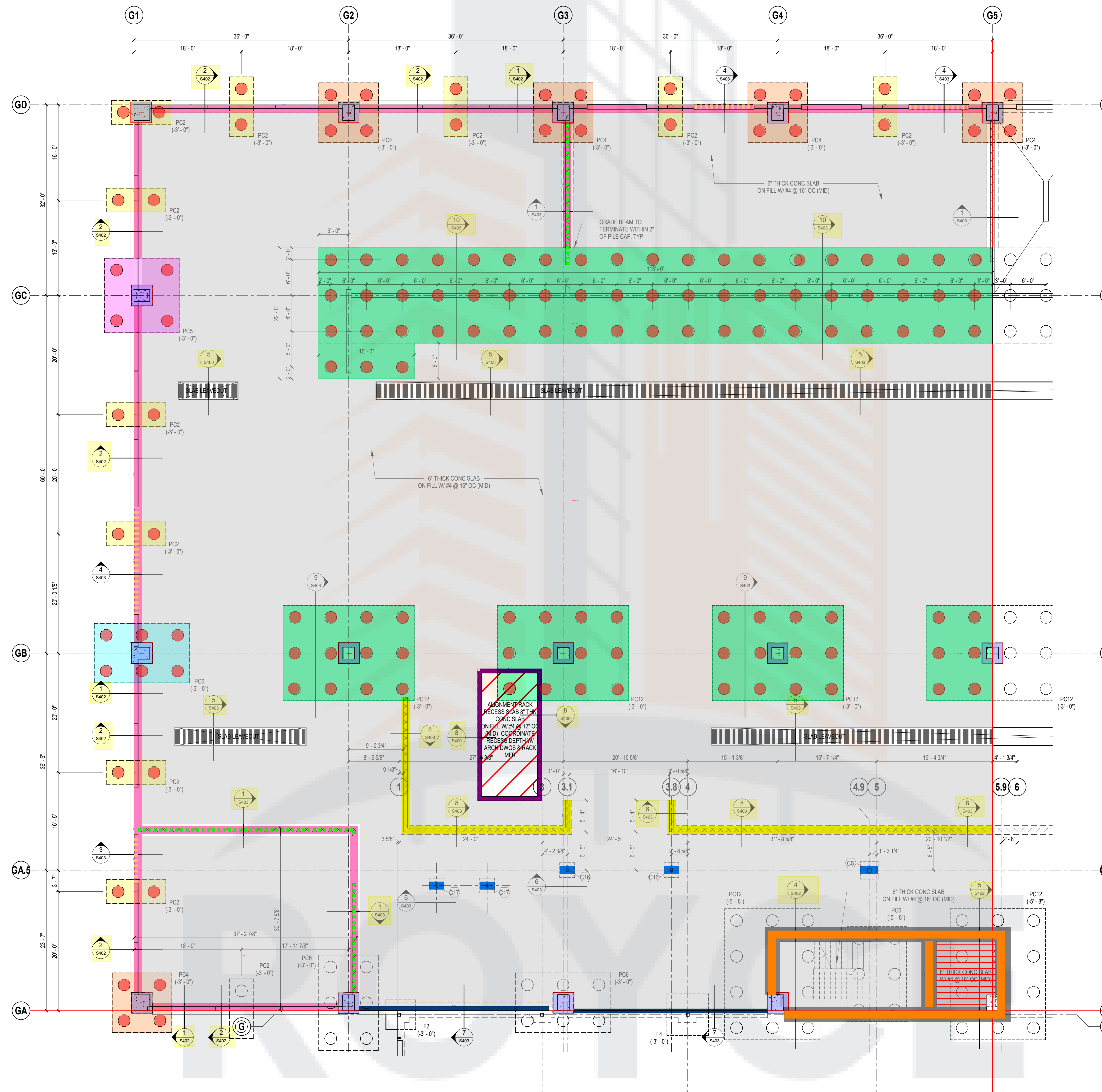
S200.A



- FOUNDATION NOTES:**
- SEE S100 FOR STRUCTURAL GENERAL NOTES.
 - TOP OF SLAB (REF FIN FLR) = 0'-0".
 - SEE COLLUMN SCHEDULE ON SHEET S300.
 - TOP OF ALL FOOTINGS ARE AT ELEVATIONS AS SHOWN ON PLAN.
 - TOP OF ALL PILE CAPS ARE AT ELEVATIONS AS SHOWN ON PLAN.

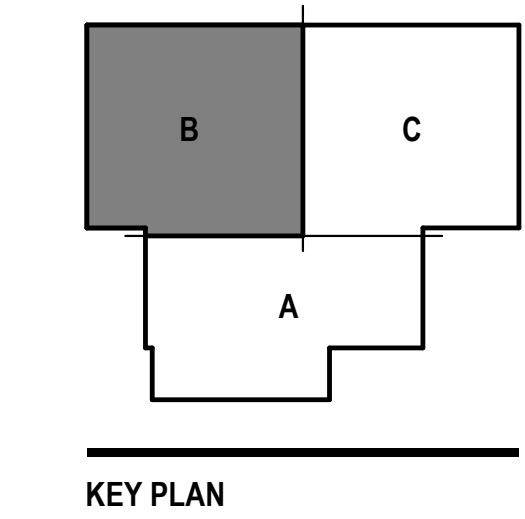
1 FOUNDATION PLAN - AREA 'A'
1/8" = 1'-0"

Description	Quantity	Unit
1/S403	79.59	ft
2/S402	377.91	ft
3/S403	46.13	ft
4/S402	109.46	ft
5/S403	182.53	ft
6" thick concrete slab on fill reinf. w/ #4 @ 16" o.c.	20,105	sf
6/S403	12.99	ft
7/S403	64.39	ft
8" thick concrete slab on fill reinf. w/ #4 @ 12" o.c.	194	sf
8" thick concrete slab reinf. w/ #4 @ 16" o.c.	106	sf
8/S400	62.94	ft
8/S403	113.43	ft
Augar cast piles	152	Count
Concrete plinth Size: 42" x 42" x 2'-0" Refer det: 1/S402	337	cu ft
Line	2	Count
PC2	1,600	cu ft
PC4	2,000	cu ft
PC5	626	cu ft
PC6	640	cu ft
PC-12	12,547	cu ft
Rectangle	28	Count



- FOUNDATION NOTES:**
- SEE S100 FOR STRUCTURAL GENERAL NOTES.
 - TOP OF SLAB (REF FIN FLR) = 0'-0".
 - SEE COLUMN SCHEDULE ON SHEET S300.
 - TOP OF ALL FOOTINGS ARE AT ELEVATIONS AS SHOWN ON PLAN.
 - TOP OF ALL PILE CAPS ARE AT ELEVATIONS AS SHOWN ON PLAN.

1 FOUNDATION PLAN - AREA 'B'
1/8" = 1'-0"



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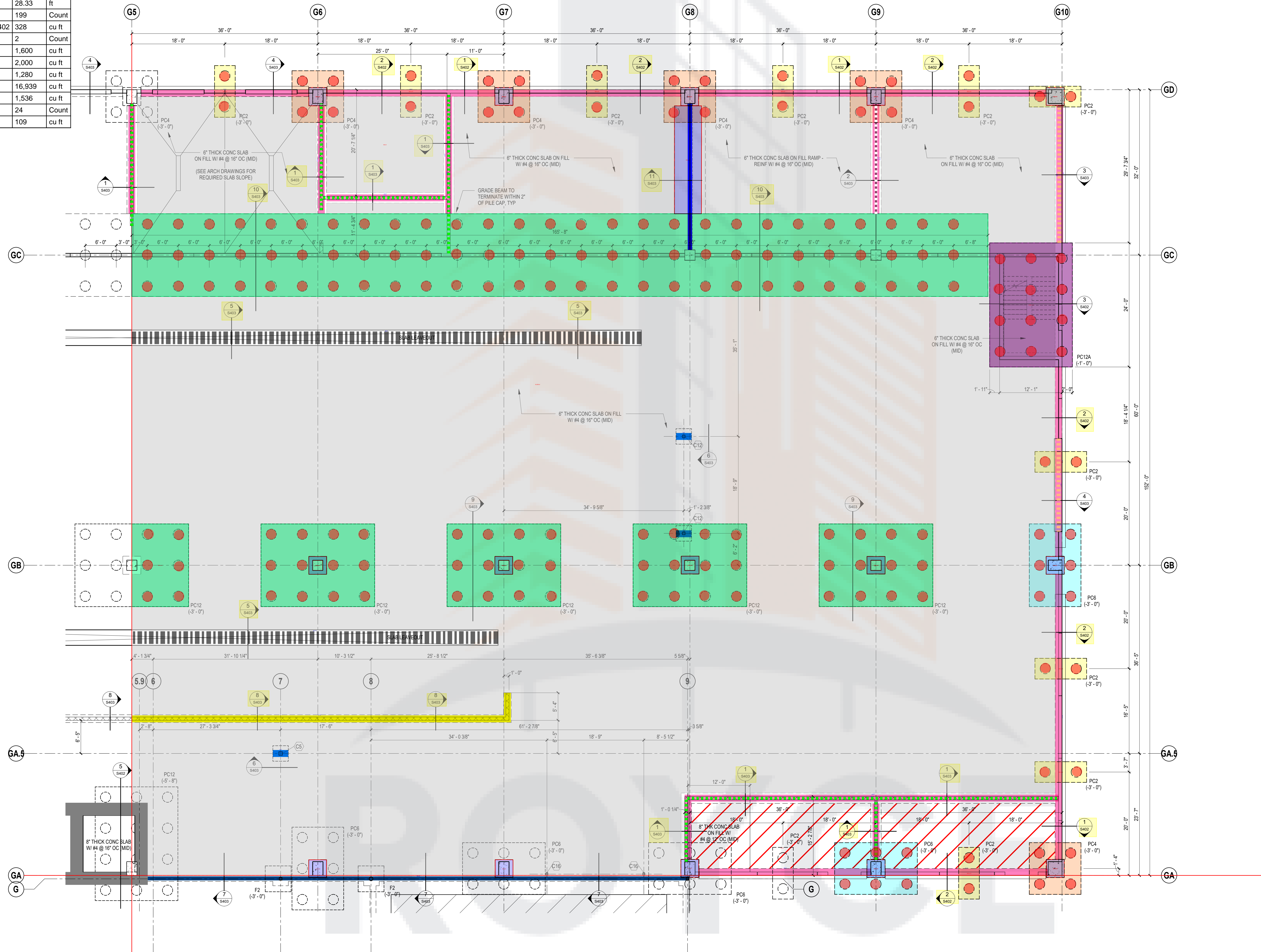
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FOUNDATION PLAN - AREA 'B'

SHEET:

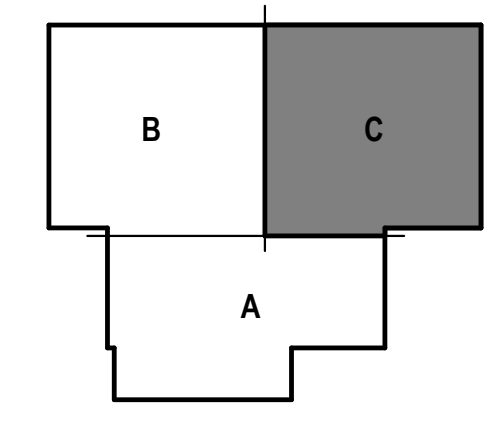
S200.B

Description	Quantity	Unit
1/S403	194.82	ft
2/S402	546.92	ft
2/S403	21.37	ft
3/S403	44.31	ft
5/S403	169.49	sf
6" thick concrete slab on fill reinf. w/ #4 @ 16" o.c.	24,932	sf
6/S403	9.00	ft
7/S403	104.75	ft
8" thick concrete slab on fill reinf. w/ #4 @ 12" o.c.	853	sf
8/S403	77.74	ft
11/S403	28.33	ft
Augar cast piles	199	Count
Concrete plinth Size: 42" x 42" x 2'-0" Refer det: 1/S402	328	cu ft
Line	2	Count
PC2	1,600	cu ft
PC4	2,000	cu ft
PC6	1,280	cu ft
PC12	16,939	cu ft
PC12A	1,536	cu ft
Rectangle	24	Count
Retaining wall footing Size: 5'-3" x 1'-0"	109	cu ft



- FOUNDATIONS:**
- SEE S100 FOR STRUCTURAL GENERAL NOTES.
 - TOP OF SLAB (REF FIN FLR) = 0'-0".
 - SEE COLUMN SCHEDULE ON SHEET S300.
 - TOP OF ALL FOOTINGS ARE AT ELEVATIONS AS SHOWN ON PLAN.
 - TOP OF ALL PILE CAPS ARE AT ELEVATIONS AS SHOWN ON PLAN.

1 FOUNDATION PLAN - AREA 'C'
1/8" = 1'-0"



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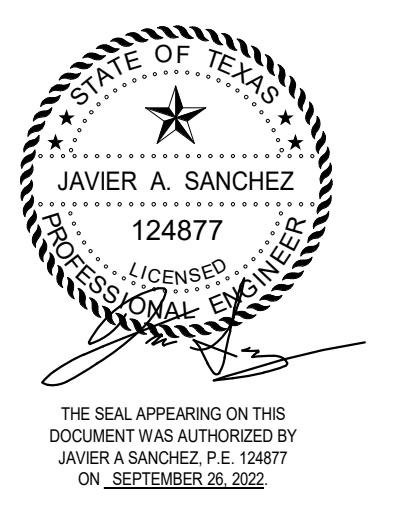
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PROJECT:
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SEAL/SIGNATURE:



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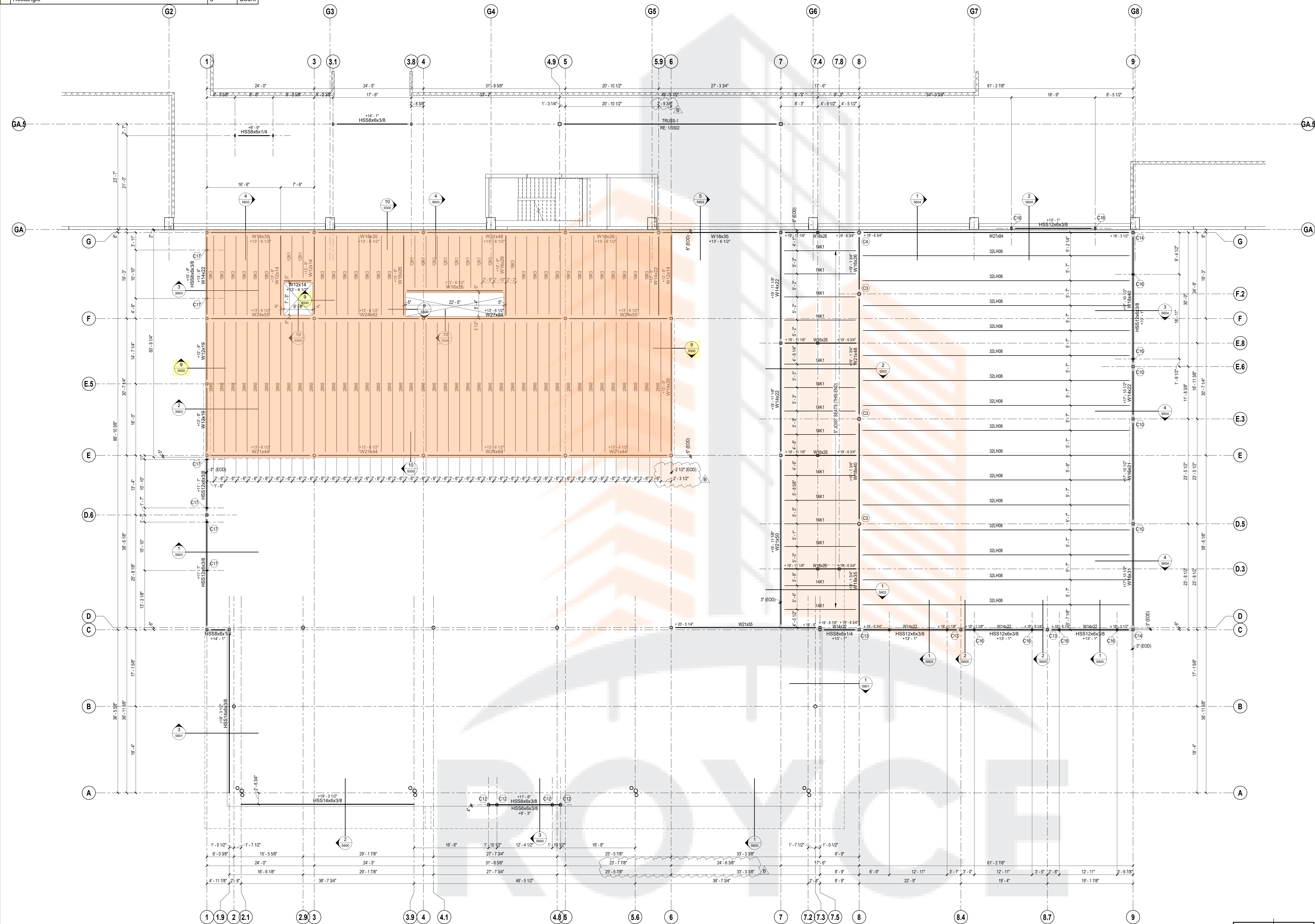
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FOUNDATION PLAN - AREA 'C'

SHEET:

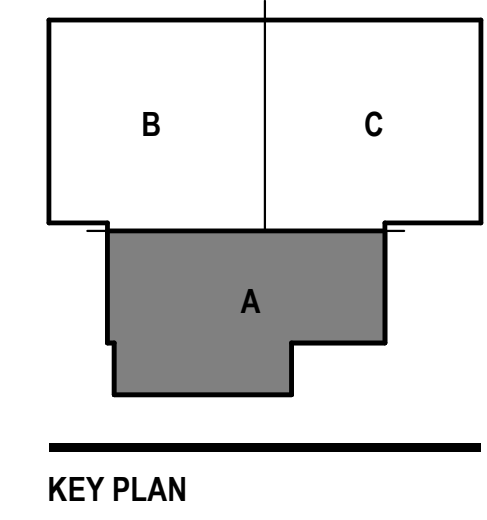
S200.C

Description	Quantity	Unit
4" thick normal weight concrete topping reinf. w/ WWF 6x6-W4.0xW4.0	5,128	sf
Rectangle	3	Count



- FRAMING NOTES:**
- SEE SHEET S100 FOR STRUCTURAL GENERAL NOTES
 - JOIST SPACING AS SHOWN ON PLAN.
 - ELEVATIONS SHOWN THUS -XX-XX-XX" IS FROM FINISH FLOOR T TOP OF BEAM AT END.
 - ELEVATION SHOWN THUS T J XX-XX-XX" IS FROM FINISH FLOOR TO TOP OF JOIST.
 - SEE SECTIONS FOR TYPICAL FRAMING DETAIL.
 - SIZE AND LOCATION OF MECHANICAL UNITS ON PLAN ARE APPROXIMATE AND SHALL BE COORDINATED BY CONTRACTOR WITH MECHANICAL DRAWINGS.
 - CONTRACTOR / STEEL FABRICATOR TO COORDINATE ROOF PENETRATIONS WITH MECHANICAL CONTRACTOR.

1 MEZZANINE FRAMING PLAN
1/8" = 1'-0"



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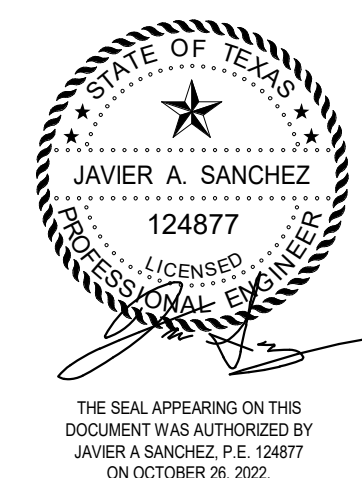
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PROJECT:
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PROJECT NUMBER: LA2216

ISSUE DATE: 06/18/22

SHEET NAME:

MEZZANINE FRAMING PLAN

SHEET:

S211.A

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PROJECT:
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PROJECT NUMBER: LA2216

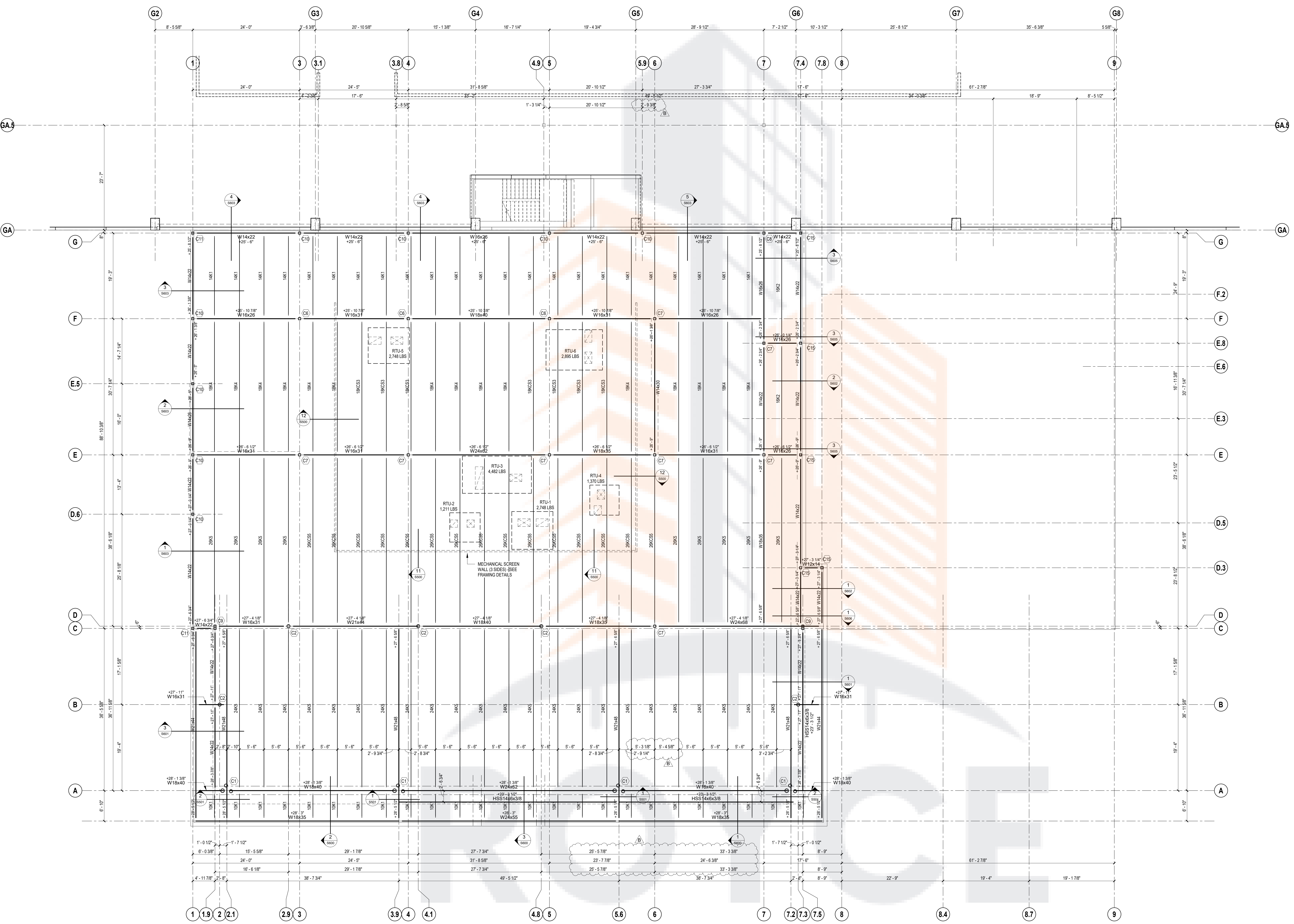
ISSUE DATE: 06/18/22

SHEET NAME:

ROOF FRAMING PLAN - AREA 'A'

SHEET:

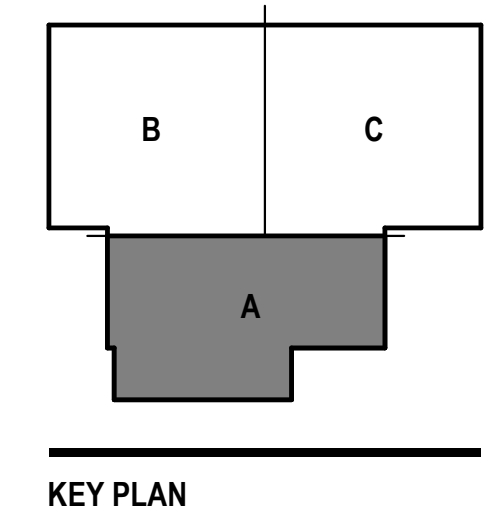
S212.A



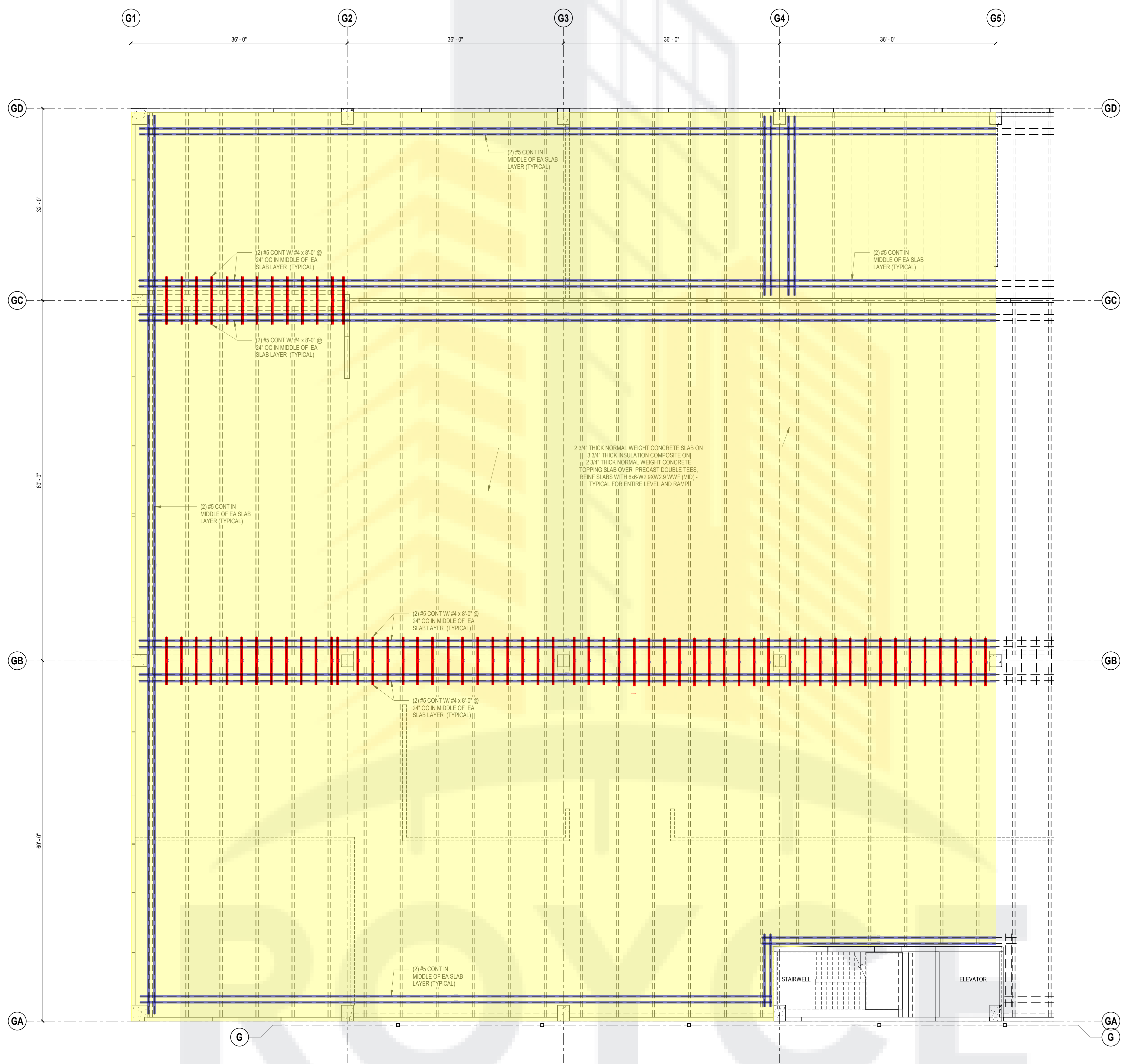
FRAMING NOTES:

- SEE SHEET S100 FOR STRUCTURAL GENERAL NOTES
- JOIST SPACING AS SHOWN ON PLAN.
- ELEVATIONS SHOWN THIS "XX-XX-XX" IS FROM FINISH FLOOR T TOP OF BEAM AT END.
- ELEVATION SHOWN THIS "TJ XX-XX-XX" IS FROM FINISH FLOOR TO TOP OF JOIST.
- SEE SECTIONS FOR TYPICAL FRAMING DETAIL.
- SIZE AND LOCATION OF MECHANICAL UNITS ON PLAN ARE APPROXIMATE AND SHALL BE COORDINATED BY CONTRACTOR WITH MECHANICAL DRAWINGS.
- CONTRACTOR / STEEL FABRICATOR TO COORDINATE ROOF PENETRATIONS WITH MECHANICAL CONTRACTOR.

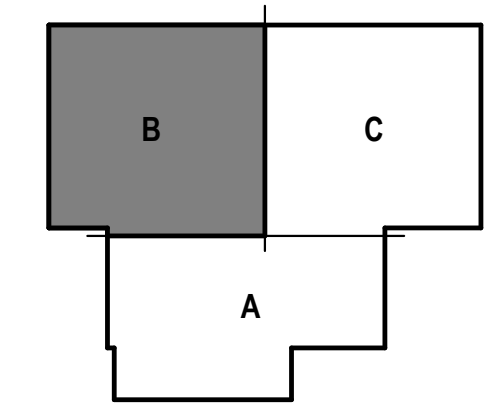
1 ROOF FRAMING PLAN
 1/8" = 1'-0"



Legend		Quantity	Unit
#4 x 8'-0" @ 24" o.c. in middle of each slab layer		543.98	ft
#5 cont. in middle of each slab layer		2,159.09	ft
2-3/4" thick normal weight concrete slab on 3-3/4" thick insulation composite on 2-3/4" thick normal weight concrete topping slab over precast double tees reinf. w/ 6x6-W2.9xW2.9 WWF		21,314	sf



1 GARAGE LEVEL 2 - AREA 'B'
1/8" = 1'-0"



KEY PLAN

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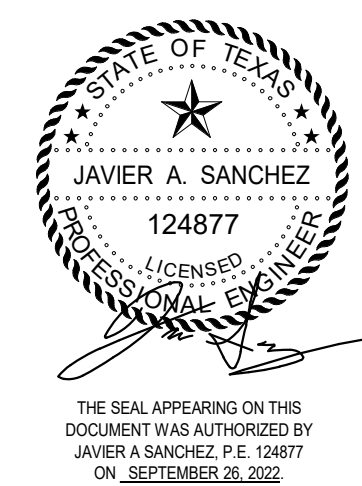
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PROJECT:
NORTHWEST HYUNDAI

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PROJECT NUMBER: LA2216

ISSUE DATE: 06/18/22

SHEET NAME:

GARAGE LEVEL 2 - AREA B

SHEET:

S212.B

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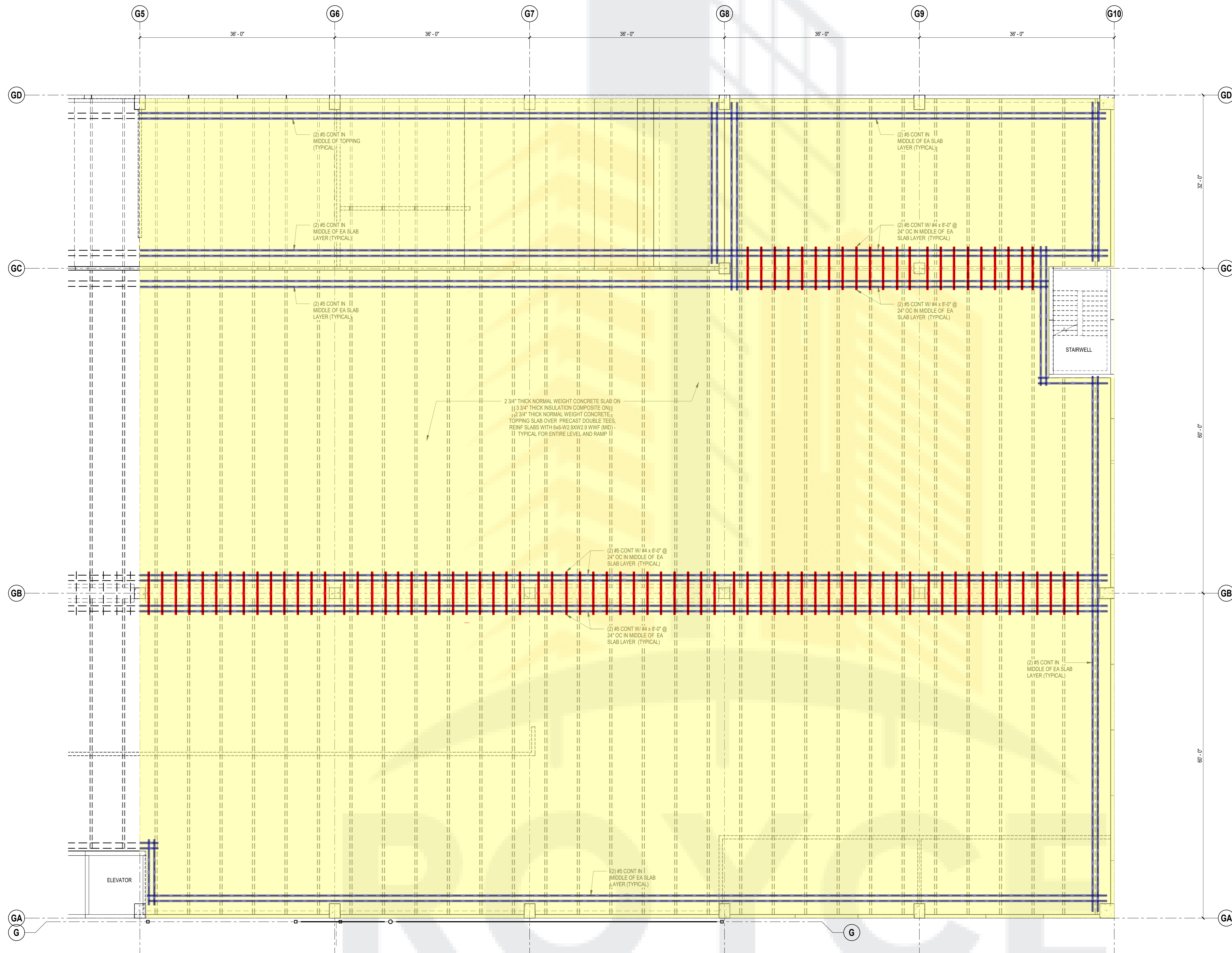
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GARAGE LEVEL 2 - AREA C

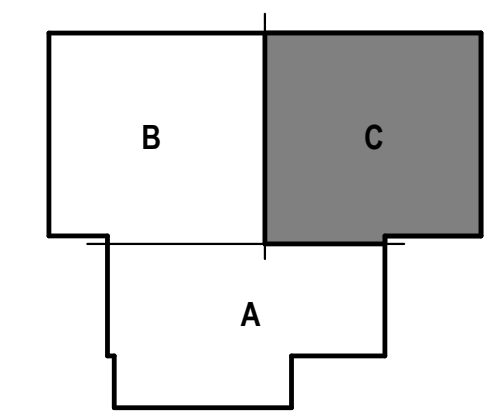
SHEET:

S212.C

Description	Quantity	Unit
#4 x 8'-0" @ 24" o.c. in middle of each slab layer	720.01	ft
#5 cont. in middle of each slab layer	2,603.76	ft
2-3/4" thick normal weight concrete slab on 3-3/4" thick insulation composite on 2-3/4" thick normal weight concrete topping slab over precast double tees reinf. w/ 6x6-W2.9xW2.9 VWF	26,966	sf

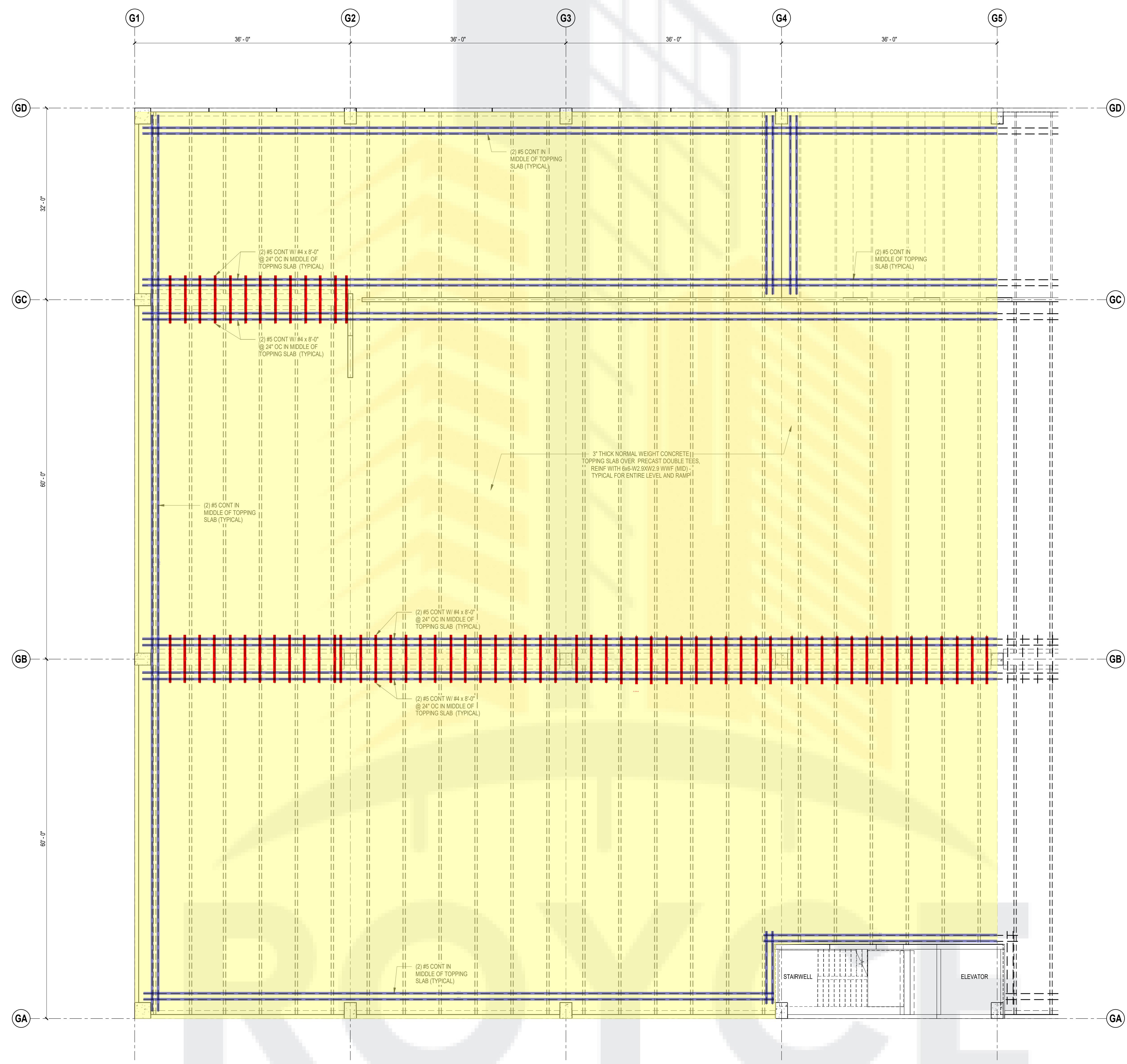


1 GARAGE LEVEL 2 - AREA 'C'
 1/8" = 1'-0"

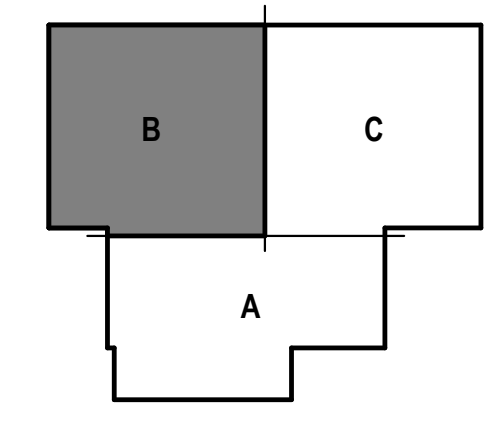


KEY PLAN

Legend		Description	Quantity	Unit
		#4 x 8'-0" @ 24" o.c. in middle of each slab layer	543.98	ft
		#5 cont. in middle of each slab layer	2,159.09	ft
		3" thick normal wight concrete topping slab over precast double tees reinf. w/ 6x6-W2.9xW2.9	21,314	sf



1 GARAGE LEVEL 3 - AREA 'B'
1/8" = 1'-0"



KEY PLAN

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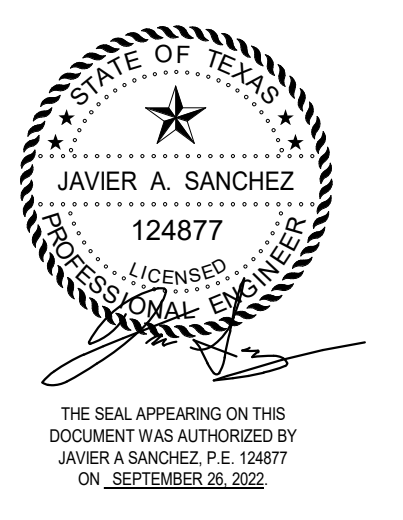
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PROJECT:
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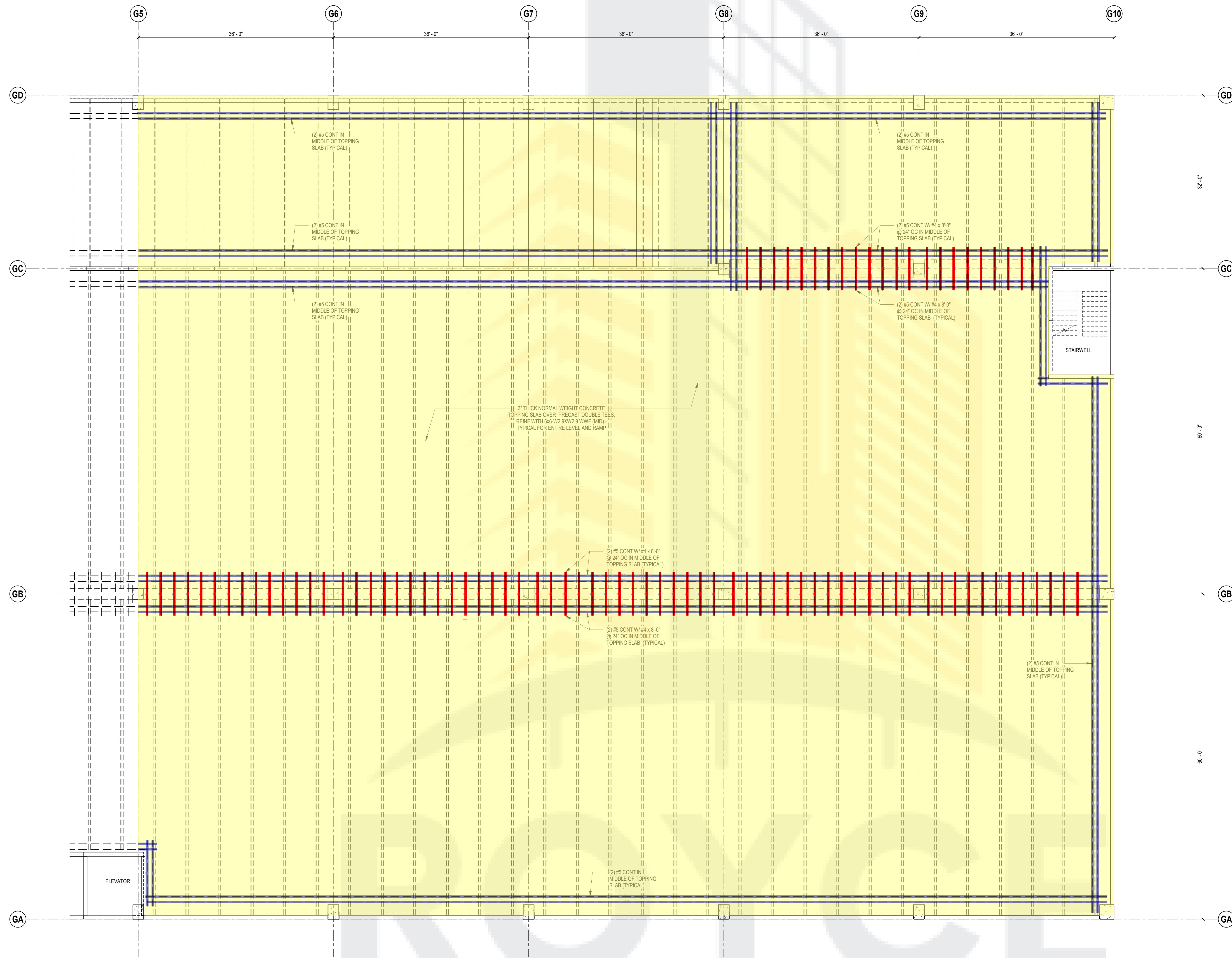
PROJECT NUMBER: LA2216

ISSUE DATE: 06/18/22

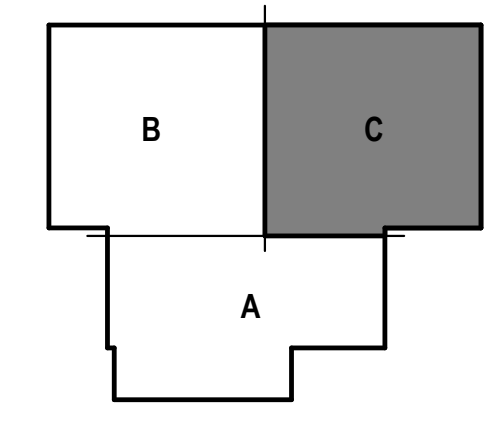
SHEET NAME: GARAGE LEVEL 3 - AREA B

SHEET: S213.B

Legend		Description	Quantity	Unit
		#4 x 8'-0" @ 24" o.c. in middle of each slab layer	720.01	ft
		#5 cont. in middle of each slab layer	2,603.76	ft
		3" thick normal wight concrete topping slab over precast double tees reinf. w/ 6x6-W2.9xW2.9	26,966	sf



1 GARAGE LEVEL 3 - AREA 'C'
1/8" = 1'-0"



KEY PLAN

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PROJECT NUMBER: LA2216

ISSUE DATE: 06/18/22

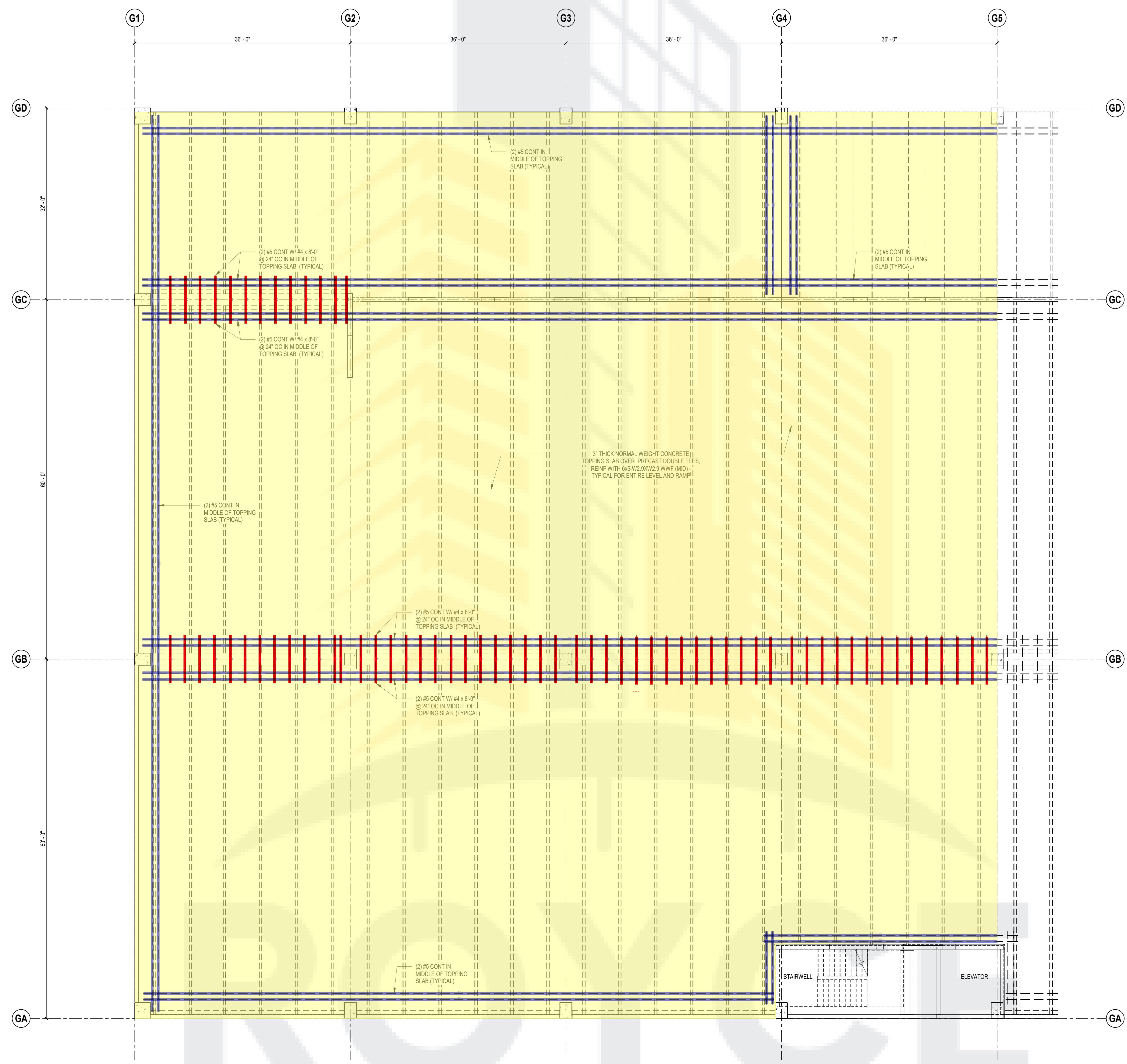
SHEET NAME:

GARAGE LEVEL 3 - AREA C

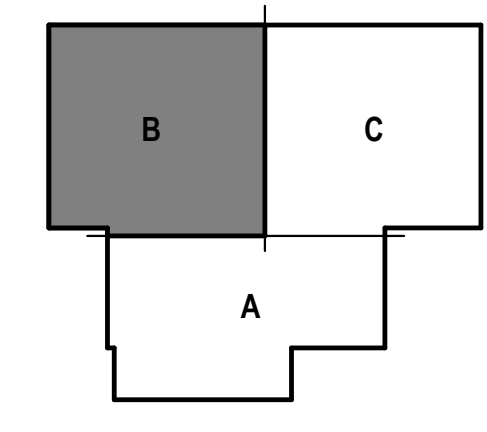
SHEET:

S213.C

Legend		
Description	Quantity	Unit
#4 x 8'-0" @ 24" o.c. in middle of each slab layer	543.98	ft
#5 cont. in middle of each slab layer	2,159.09	ft
3" thick normal wight concrete topping slab over precast double tees reinf. w/ 6x6-W2.9xW2.9	21,314	sf



1 GARAGE LEVEL 4 - AREA 'B'
1/8" = 1'-0"



KEY PLAN

GEOTECHNICAL ENGINEER
ALPHA TESTING
6513 W. LITTLE YORK RD.
HOUSTON, TEXAS 77040
817.496.5600

CIVIL ENGINEER
CIVIL-CON CONSULTANTS, LLC
448 W. 19TH ST.
HOUSTON, TEXAS 77008
713.992.4148

STRUCTURAL ENGINEER
PRIME STRUCTURAL ENGINEERING
22136 WESTHEIMER PKWY. #228
KATY, TEXAS 77450
254.640.8226

MEP ENGINEER
SPECTRUM DESIGN ENGINEERS
15 SIERRA OAKS DR.
SUGAR LAND, TEXAS 77479
832.766.6076

PRECAST CONCRETE SUPPLIER
MANCO STRUCTURES, LTD
6101 FM 3009
SCHERTZ, TEXAS 78154
210.690.1705

PROJECT:
NORTHWEST HYUNDAI

PROJECT ADDRESS:
19120 NORTHWEST FWY
HOUSTON, TEXAS 77065

SEAL/SIGNATURE:

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ENGINEERING
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KATY, TEXAS 77450 F-20241

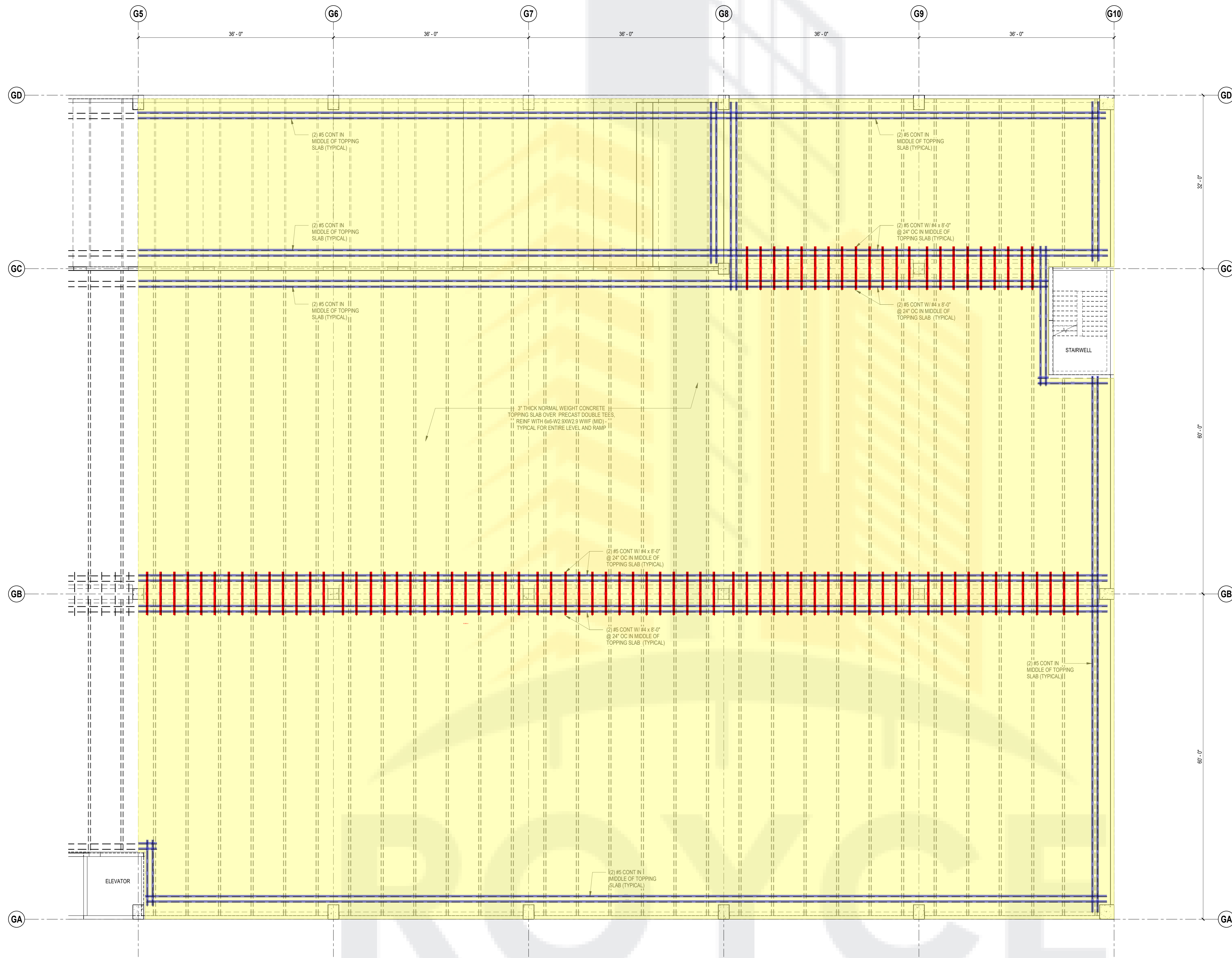
ISSUE HISTORY:

DATE	DELTA	DESCRIPTION
07.28.2022		ISSUE FOR PERMIT
09.26.2022		ISSUE FOR BID

PROJECT NUMBER: LA2216
ISSUE DATE: 06/18/22
SHEET NAME: GARAGE LEVEL 4 - AREA B

SHEET:
S214.B

Legend		
Description	Quantity	Unit
#4 x 8'-0" @ 24" o.c. in middle of each slab layer	720.01	ft
#5 cont. in middle of each slab layer	2,603.76	ft
3" thick normal weight concrete topping slab over precast double tees reinf. w/ 6x6-W2.9xW2.9	26,966	sf



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PROJECT:
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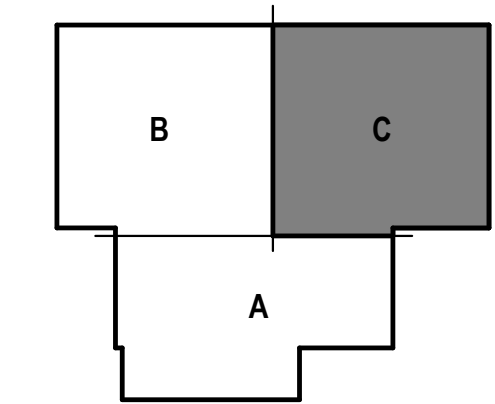
ISSUE DATE: 06/18/22

SHEET NAME:

GARAGE LEVEL 4 - AREA C

SHEET:

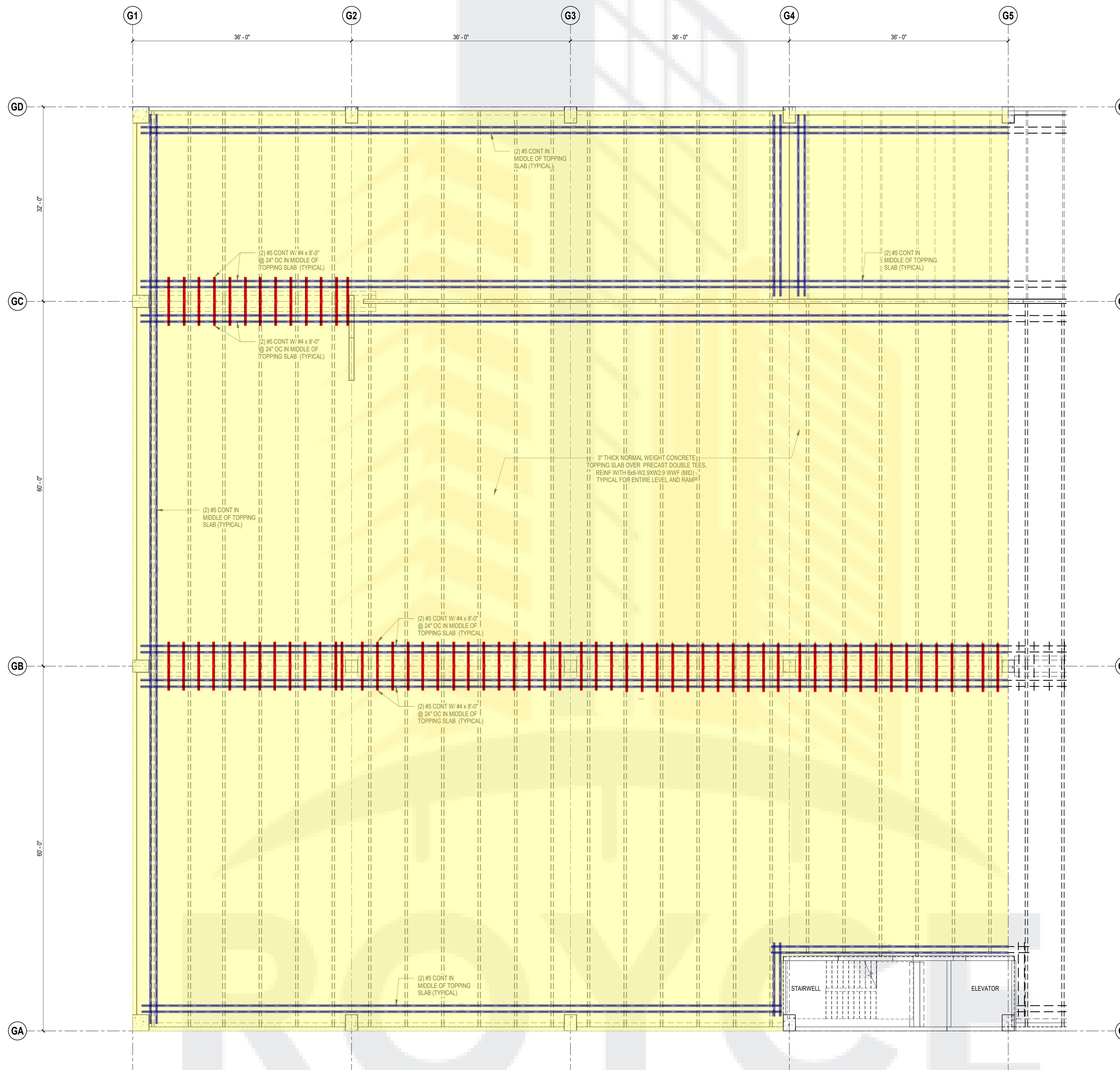
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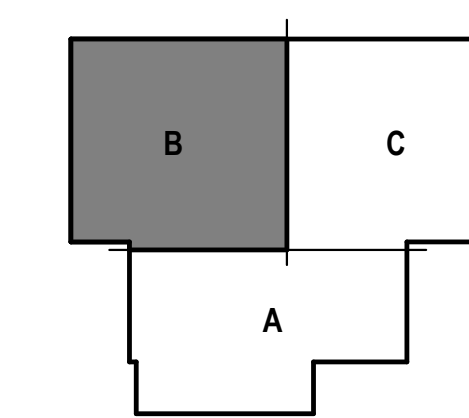
KEY PLAN

1 GARAGE LEVEL 4 - AREA 'C'
 1/8" = 1'-0"

Legend		
Description	Quantity	Unit
#4 x 8'-0" @ 24" o.c. in middle of each slab layer	543.98	ft
#5 cont. in middle of each slab layer	2,159.09	ft
3" thick normal wight concrete topping slab over precast double tees reinf. w/ 6x6-W2.9xW2.9	21,314	sf



1 GARAGE LEVEL 5 - AREA 'B'
1/8" = 1'-0"



KEY PLAN

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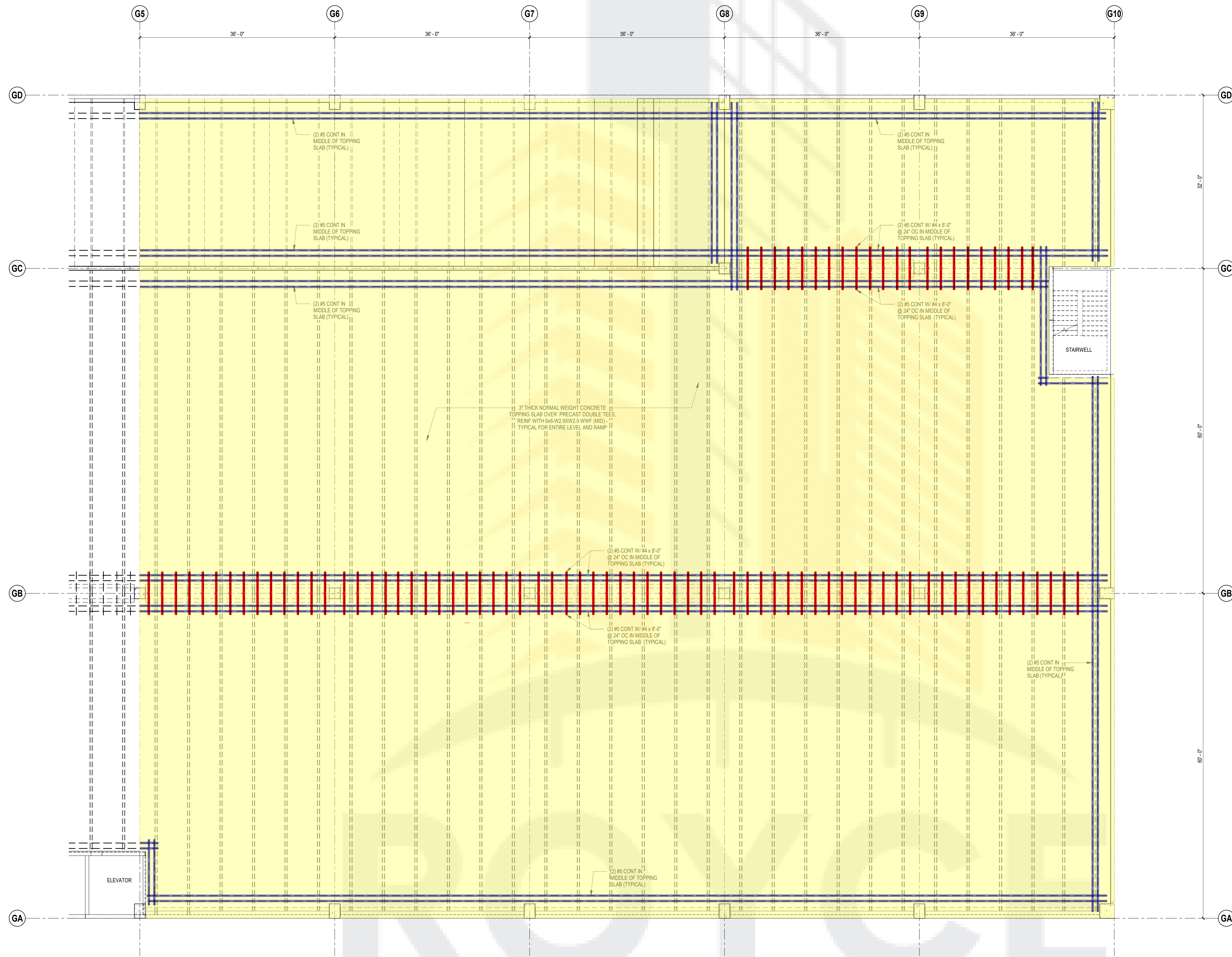
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GARAGE LEVEL 5 - AREA B

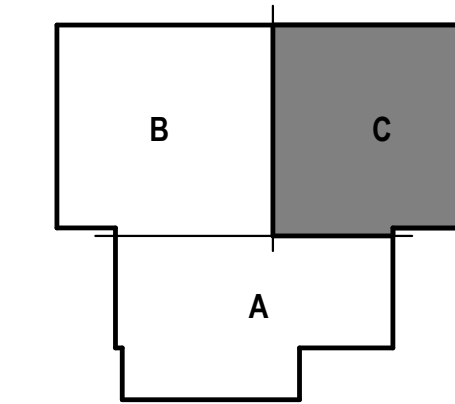
SHEET:

S215.B

Legend		Quantity	Unit
#4 x 8'-0" @ 24" o.c. in middle of each slab layer		720.01	ft
#5 cont. in middle of each slab layer		2,603.76	ft
3" thick normal wight concrete topping slab over precast double tees reinf. w/ 6x6-W2.9xW2.9		26,966	sf



1 GARAGE LEVEL 5 - AREA 'C'
1/8" = 1'-0"



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ISSUE DATE: 06/18/22

SHEET NAME: GARAGE LEVEL 5 - AREA C

SHEET: S215.C

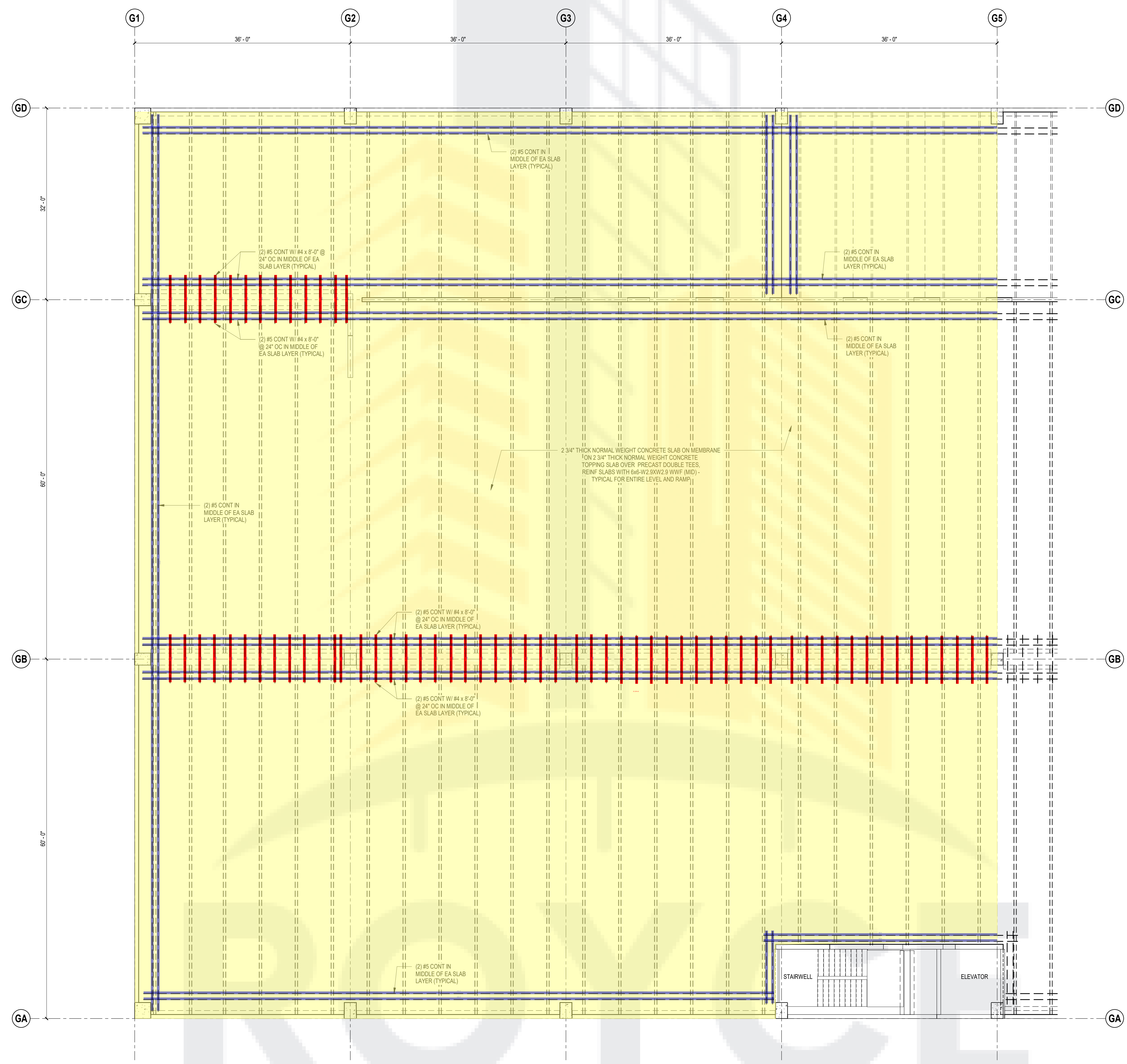
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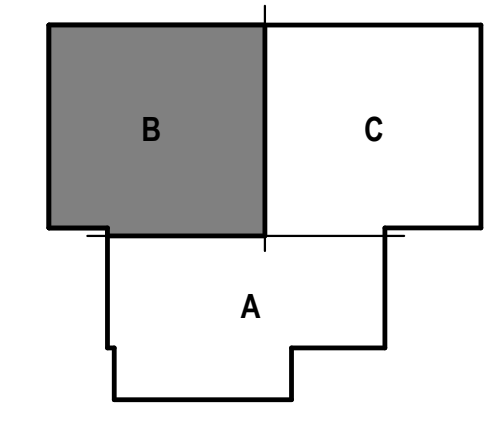
SHEET NAME: GARAGE LEVEL 5 - AREA C

SHEET: S215.C

Legend		Quantity	Unit
#4 x 8'-0" @ 24" o.c. in middle of each slab layer		543.98	ft
#5 cont. in middle of each slab layer		2,159.09	ft
2-3/4" thick normal wight concrete slab on membrane on 2-3/4" thick normal weight concrete topping slab over precast double tees reinf. w/ 6x6-W2.9xW2.9		21,314	sf



1 GARAGE LEVEL 6 - AREA 'B'
1/8" = 1'-0"



KEY PLAN



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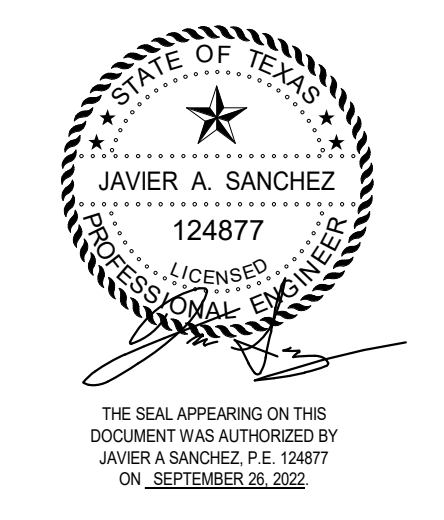
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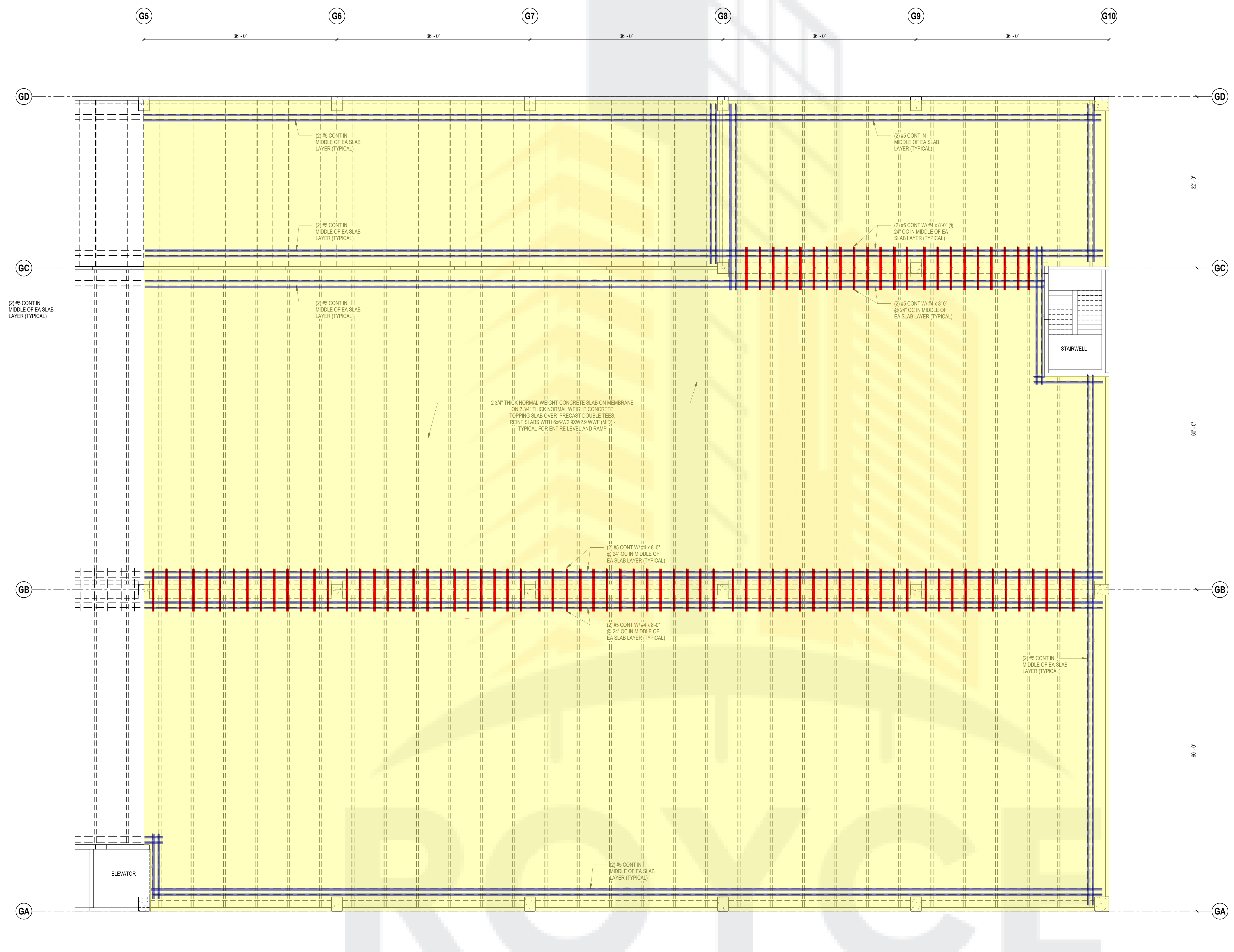
SHEET NAME: GARAGE LEVEL 6 - AREA B

SHEET: S216.B

S216.B

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Description	Quantity	Unit
#4 x 8'-0" @ 24" o.c. in middle of each slab layer	720.01	ft
#5 cont. in middle of each slab layer	2,603.76	ft
2-3/4" thick normal wight concrete slab on membrane on 2-3/4" thick normal weight concrete topping slab over precast double tees reinf. w/ 6x6-W2.9xW2.9	26,966	sf



LOMA ARCHITECTURE

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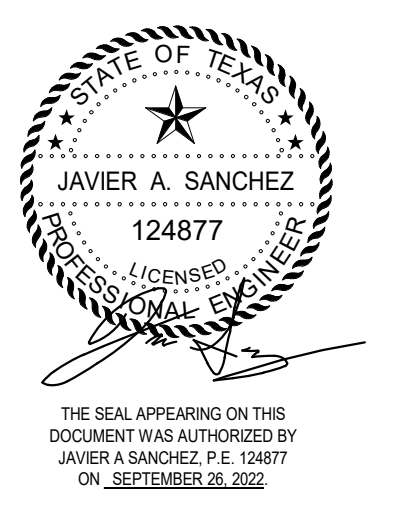
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PRIME STRUCTURAL ENGINEERING
 22136 WESTHEIMER PARKWAY, #228
 KATY, TEXAS 77450 F-20241

ISSUE HISTORY:

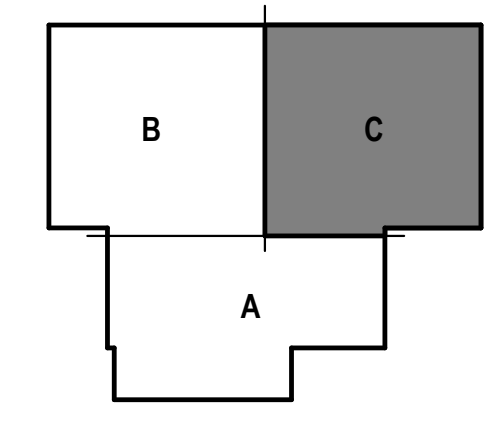
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09.26.2022		ISSUE FOR BID

PROJECT NUMBER: LA2216

ISSUE DATE: 06/18/22

SHEET NAME: GARAGE LEVEL 6 - AREA C

SHEET: S216.C

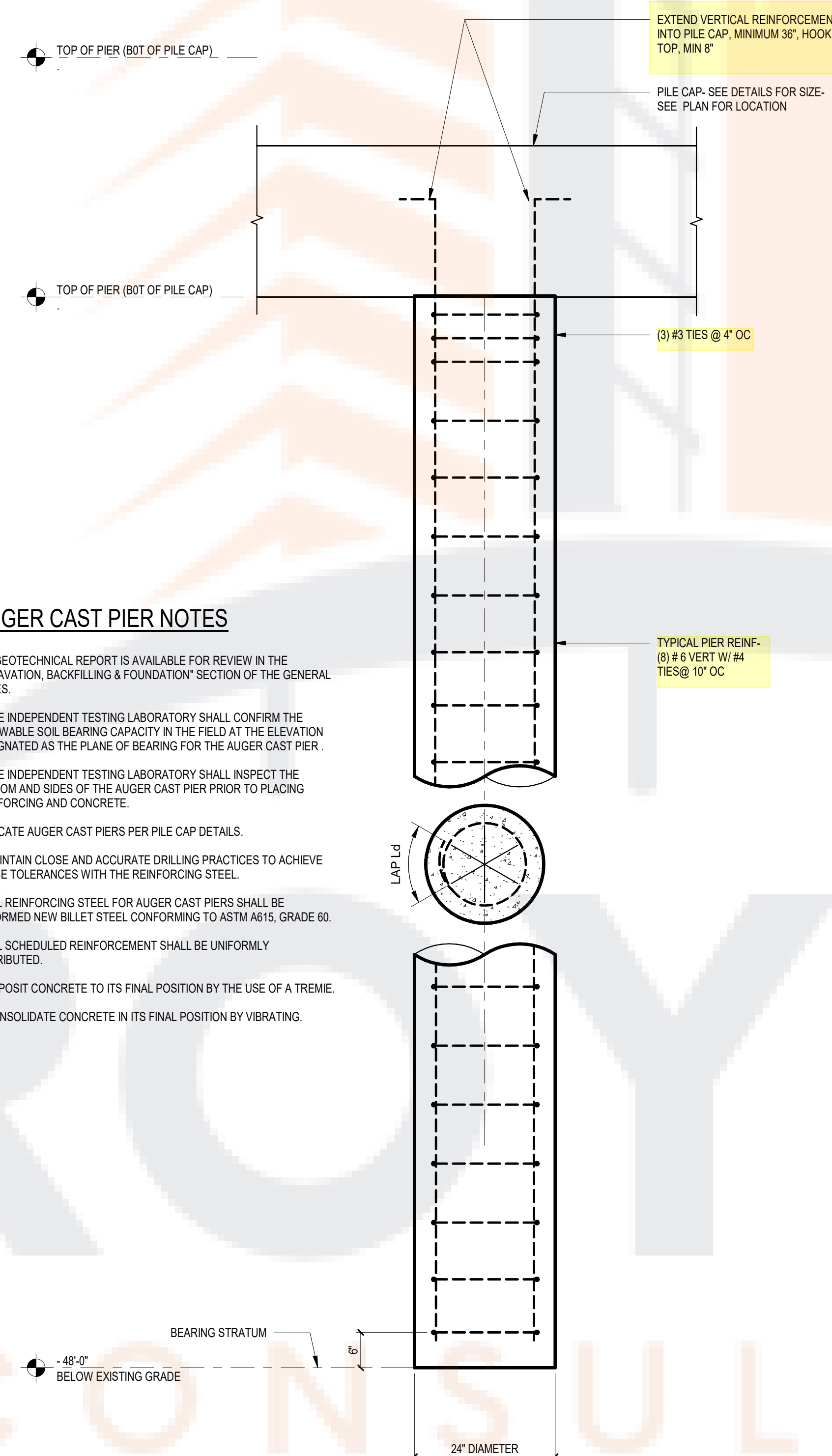


1 GARAGE LEVEL 6 - AREA 'C'
 1/8" = 1'-0"

KEY PLAN

FOOTING AND PILE CAP SCHEDULE						
MARKED	DIMENSIONS			REINFORCING		REMARKS
	LENGTH	WIDTH	THICKNESS	REINFORCING BOTTOM	REINFORCING TOP	
F1	4'-0"	4'-0"	1'-4"	(5) #5 E.W.		
F2	5'-0"	5'-0"	1'-4"	(6) #5 E.W.		
F3	6'-0"	6'-0"	1'-4"	(6) #5 E.W.		
F4	7'-0"	7'-0"	2'-0"	(9) #5 E.W.		
F5	8'-0"	8'-0"	2'-0"	(10) #5 E.W.		
F6	9'-0"	9'-0"	2'-0"	(11) #5 E.W.		
F7	10'-0"	10'-0"	2'-0"	(12) #5 E.W.		
F8	11'-0"	11'-0"	2'-0"	(13) #5 E.W.		
F9	4'-0"	9'-0"	2'-0"	(5) #5 (LONG) & (11) #6 (SHORT)		
PC2	10'-0"	4'-0"	4'-0"	#8 @ 16" OC (SHORT) & #6 @ 9" OC (LONG) & #8 @ 14" OC (LONG)	#8 @ 16" OC (SHORT) & #8 @ 14" OC (LONG)	
PC4	10'-0"	10'-0"	4'-0"	#8 @ 8" OC	#8 @ 8" OC	
PC5	12'-8"	12'-8"	4'-0"	#9 @ 12" OC	#9 @ 12" OC	
PC6	16'-0"	10'-0"	4'-0"	#9 @ 11" OC	#9 @ 11" OC	
PC12	22'-0"	16'-0"	4'-0"	#11 @ 16" OC (SHORT) & #11 @ 9" OC (LONG)	#11 @ 16" OC (SHORT) & #11 @ 9" OC (LONG)	
PC12A	24'-0"	16'-0"	4'-0"	#11 @ 16" OC (SHORT) & #11 @ 9" OC (LONG)	#11 @ 16" OC (SHORT) & #11 @ 9" OC (LONG)	

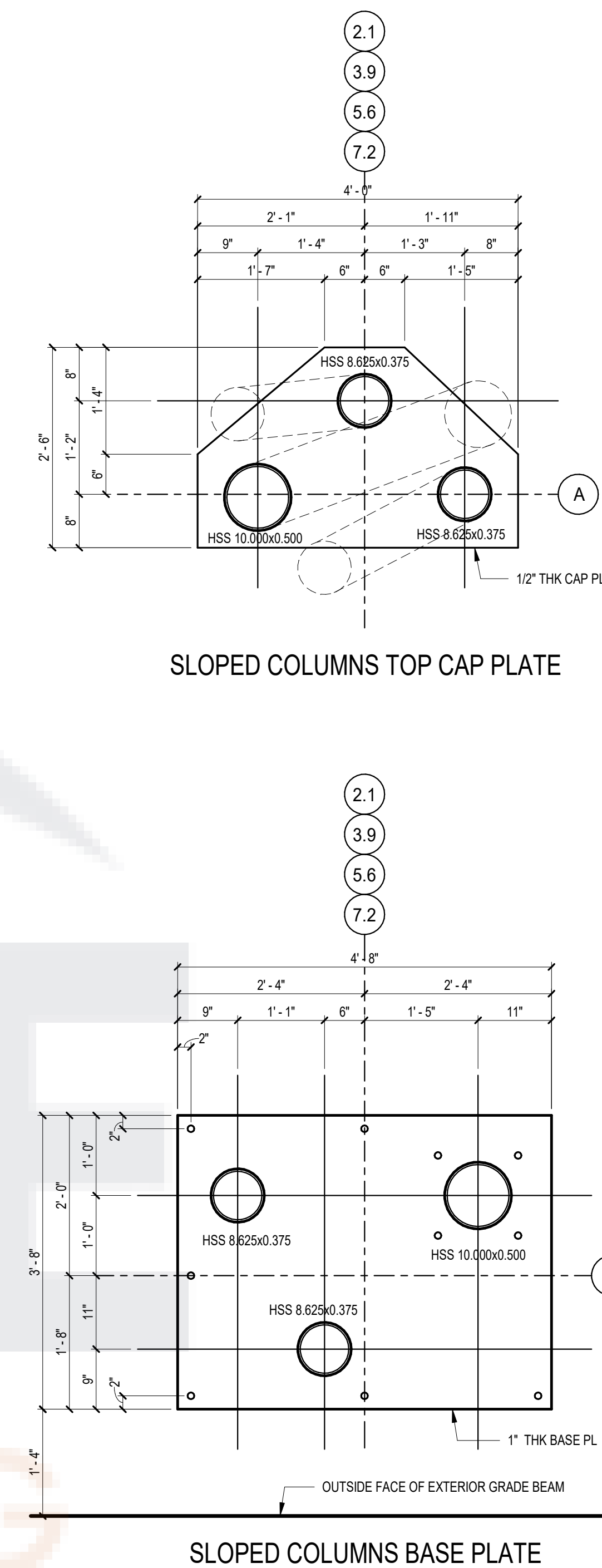
COLUMN SCHEDULE			
MARK	SIZE	BASE PLATE	COMMENTS
C1	HSS10.000 x 0.500 HSS8.625 x 0.375	SEE COMMENTS	SEE DETAIL 1/S300
C2	HSS8.625 x 0.375	1" x 14" x 14"	BOT B.P. -0'-7" BFF, 1 1/2" BOLT EDGE, 3/4"Ø x 1'-8" ANCHOR BOLTS
C3	HSS8.625 x 0.250	1" x 14" x 14"	BOT B.P. -0'-7" BFF, 1 1/2" BOLT EDGE, 3/4"Ø x 1'-8" ANCHOR BOLTS
C4	HSS8.625 x 0.250	1" x 14" x 14"	BOT B.P. -0'-7" BFF, 1 1/2" BOLT EDGE, 3/4"Ø x 1'-8" ANCHOR BOLTS
C5	HSS8x8x3/8	1" x 14" x 14"	BOT B.P. -0'-7" BFF, 1 1/2" BOLT EDGE, 3/4"Ø x 1'-8" ANCHOR BOLTS
C6	HSS6x6x5/8	1" x 12" x 12"	BOT B.P. -0'-7" BFF, 1 1/2" BOLT EDGE, 3/4"Ø x 1'-8" ANCHOR BOLTS
C7	HSS6x6x1/2	1" x 12" x 12"	BOT B.P. -0'-7" BFF, 1 1/2" BOLT EDGE, 3/4"Ø x 1'-8" ANCHOR BOLTS
C8	HSS6x6x1/2	1" x 12" x 12"	BOT B.P. -0'-7" BFF, 1 1/2" BOLT EDGE, 3/4"Ø x 1'-8" ANCHOR BOLTS
C9	HSS6x6x1/2	1" x 12" x 12"	BOT B.P. -0'-7" BFF, 1 1/2" BOLT EDGE, 3/4"Ø x 1'-8" ANCHOR BOLTS
C10	HSS6x6x3/8	1" x 12" x 12"	BOT B.P. -0'-7" BFF, 1 1/2" BOLT EDGE, 3/4"Ø x 1'-8" ANCHOR BOLTS
C11	HSS6x6x3/8	1" x 12" x 12"	BOT B.P. -0'-7" BFF, 1 1/2" BOLT EDGE, 3/4"Ø x 1'-8" ANCHOR BOLTS
C12	HSS6x6x1/4	1" x 12" x 12"	BOT B.P. -0'-7" BFF, 1 1/2" BOLT EDGE, 3/4"Ø x 1'-8" ANCHOR BOLTS
C13	HSS6x6x1/4	1" x 12" x 12"	BOT B.P. -0'-7" BFF, 1 1/2" BOLT EDGE, 3/4"Ø x 1'-8" ANCHOR BOLTS
C14	HSS6x6x1/4	1" x 12" x 12"	BOT B.P. -0'-7" BFF, 1 1/2" BOLT EDGE, 3/4"Ø x 1'-8" ANCHOR BOLTS
C15	HSS6x6x1/4	1/2" x 12" x 6 1/2"	SEE SECTION 3/S605 FOR ADDITIONAL NOTES
C16	HSS6x4x1/4	1/2" x 8" x 6"	OFFSET OPP. OPENING, BOLT TO TOP OF SLAB W/ 3/4"Ø x 4" ANCHOR
C17	HSS6x2x1/4	1/2" x 6" x 6"	OFFSET OPP. OPENING, BOLT TO TOP OF SLAB W/ 3/4"Ø x 4" ANCHOR



AUGER CAST PIER NOTES

1. A GEOTECHNICAL REPORT IS AVAILABLE FOR REVIEW IN THE "EXCAVATION, BACKFILLING & FOUNDATION" SECTION OF THE GENERAL NOTES.
2. THE INDEPENDENT TESTING LABORATORY SHALL CONFIRM THE ALLOWABLE SOIL BEARING CAPACITY IN THE FIELD AT THE ELEVATION DESIGNATED AS THE PLANE OF BEARING FOR THE AUGER CAST PIER.
3. THE INDEPENDENT TESTING LABORATORY SHALL INSPECT THE BOTTOM AND SIDES OF THE AUGER CAST PIER PRIOR TO PLACING REINFORCING AND CONCRETE.
4. LOCATE AUGER CAST PIERS PER PILE CAP DETAILS.
5. MAINTAIN CLOSE AND ACCURATE DRILLING PRACTICES TO ACHIEVE CLOSE TOLERANCES WITH THE REINFORCING STEEL.
6. ALL REINFORCING STEEL FOR AUGER CAST PIERS SHALL BE DEFORMED NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
7. ALL SCHEDULED REINFORCEMENT SHALL BE UNIFORMLY DISTRIBUTED.
8. DEPOSIT CONCRETE TO ITS FINAL POSITION BY THE USE OF A TREMIE.
9. CONSOLIDATE CONCRETE IN ITS FINAL POSITION BY VIBRATING.

2 AUGER CAST PILE DETAIL
3/4" = 1'-0"



1 SLOPED COLUMN PLANS

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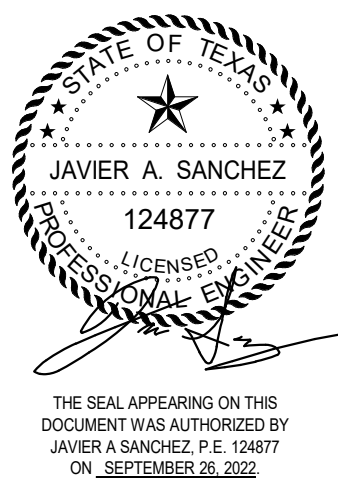
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SHEET NAME:

FOOTING AND COLUMN SCHEDULE

SHEET:

S300

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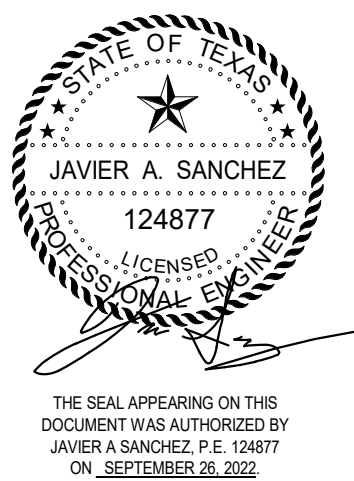
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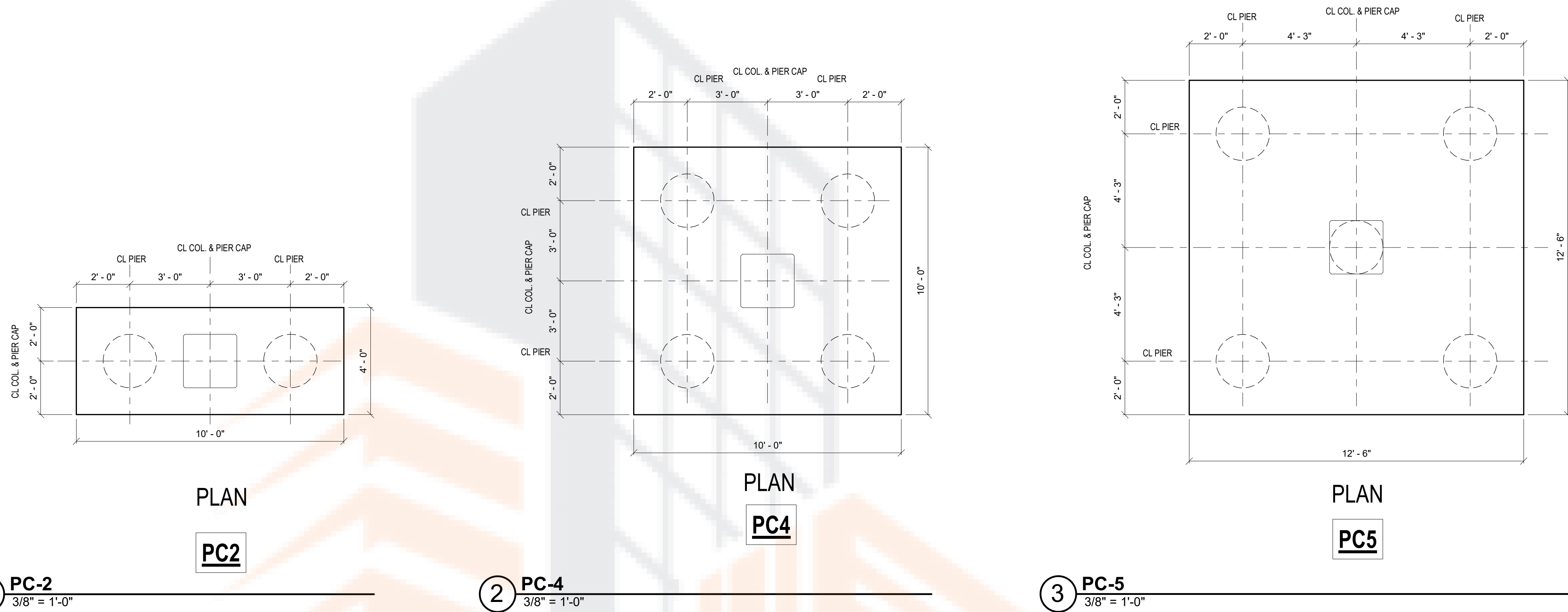
ISSUE DATE: 07/25/22

SHEET NAME:

PILE CAP DETAILS

SHEET:

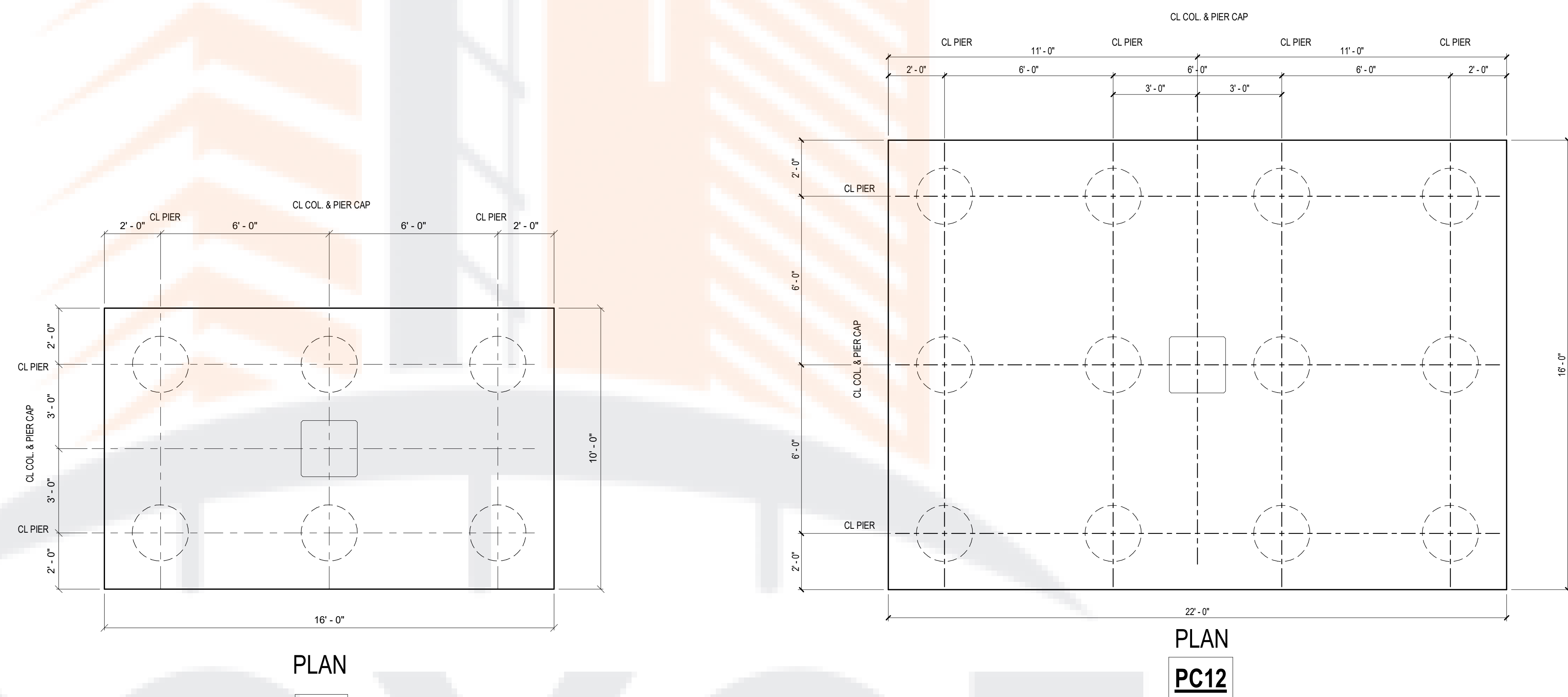
S301



1 **PC-2**
 3/8" = 1'-0"

2 **PC-4**
 3/8" = 1'-0"

3 **PC-5**
 3/8" = 1'-0"



4 **PC-6**
 3/8" = 1'-0"

5 **PC-12**
 3/8" = 1'-0"

ROYCE

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STRUCTURAL ENGINEER
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 22136 WESTHEIMER PKWY. #228
 KATY, TEXAS 77450
 254.640.8226

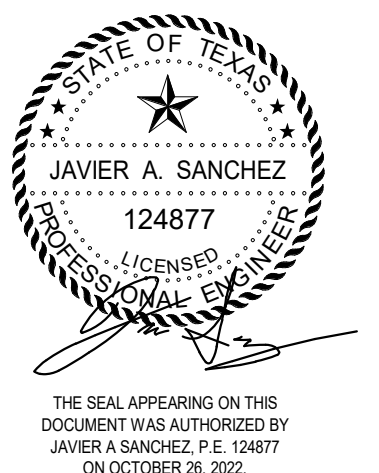
MEP ENGINEER
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 19 SIERRA OAKS DR.
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 832.766.6076

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 MANCO STRUCTURES, LTD
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 210.690.1705

PROJECT:
 NORTHWEST HYUNDAI

PROJECT ADDRESS:
 19120 NORTHWEST FWY
 HOUSTON, TEXAS 77065

SEAL/SIGNATURE:



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ISSUE HISTORY:

DATE	DELTA	DESCRIPTION
07.28.2022		ISSUE FOR PERMIT
09.26.2022		ISSUE FOR BID
10.26.2022	B	ADDENDUM 1

PROJECT NUMBER: LA2216

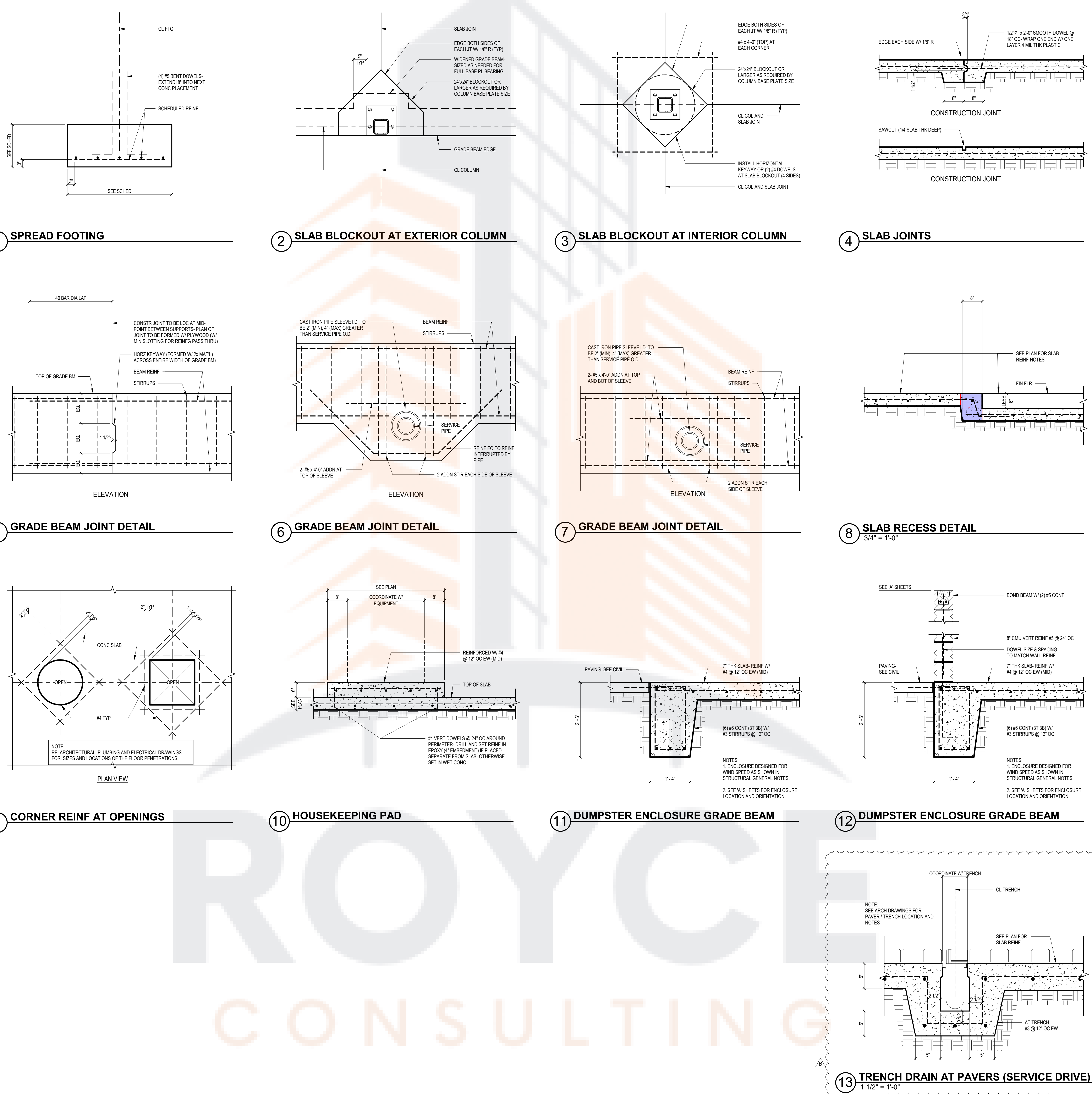
ISSUE DATE: 06/22/22

SHEET NAME:

FOUNDATION DETAILS

SHEET:

S400



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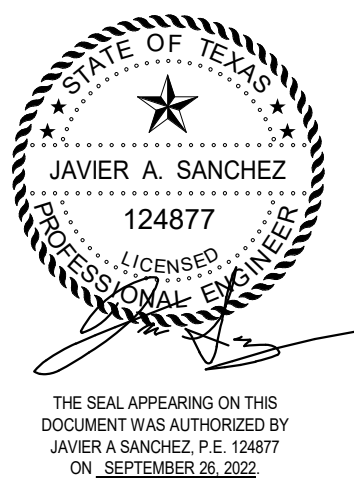
MEP ENGINEER
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832.766.6076

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MANCO STRUCTURES, LTD
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ISSUE HISTORY:

DATE	DELTA	DESCRIPTION
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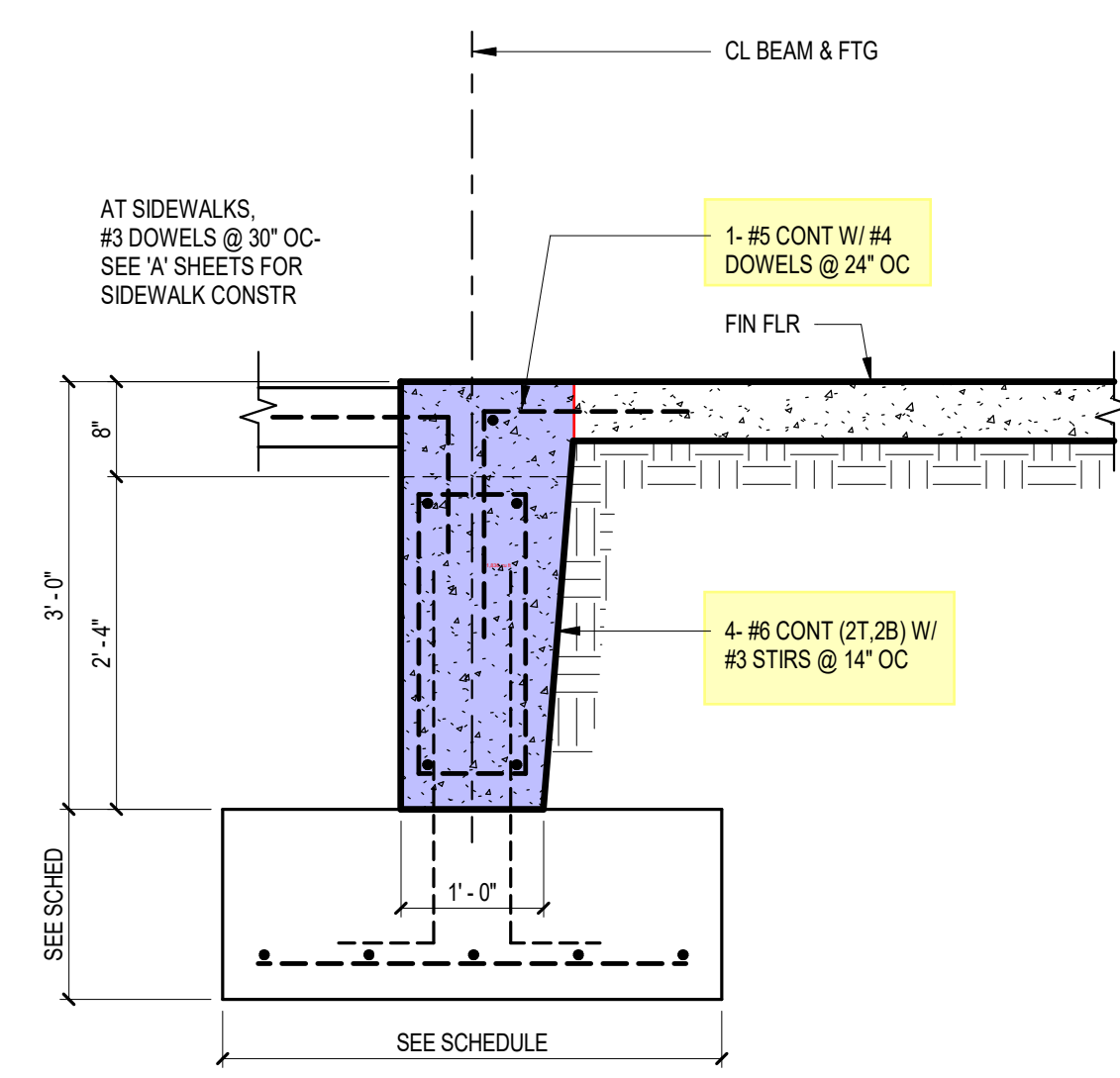
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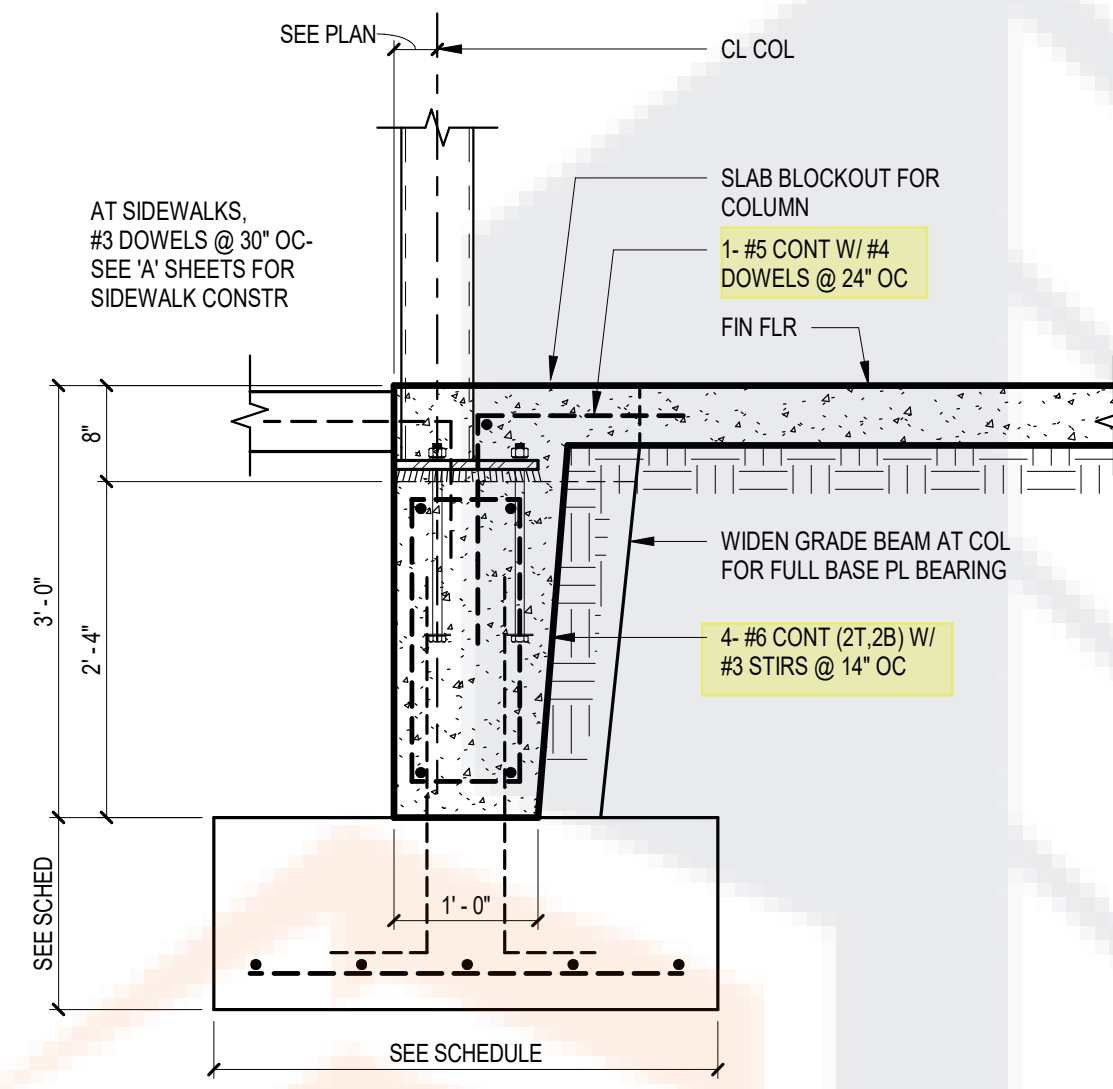
FOUNDATION DETAILS

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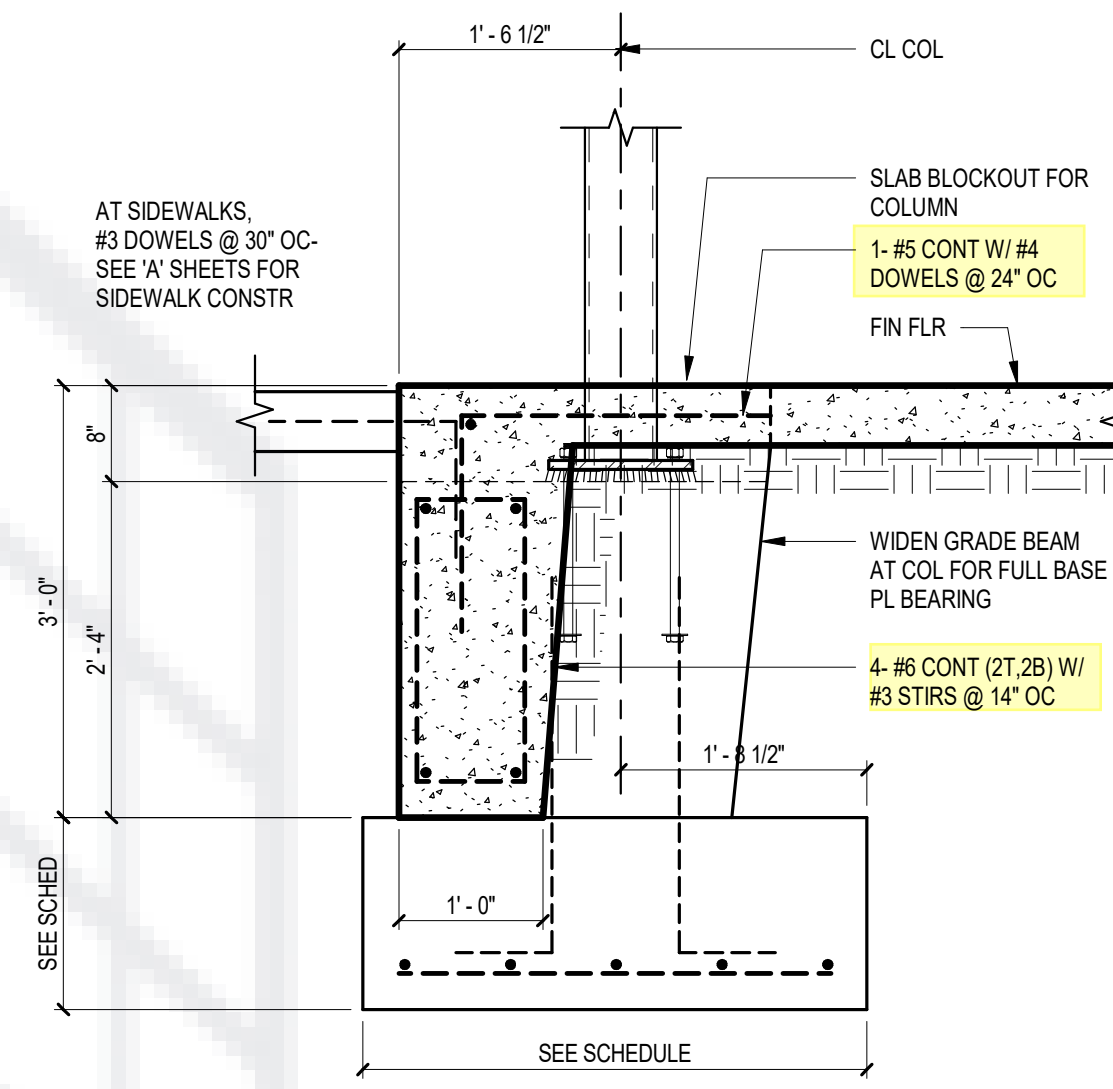
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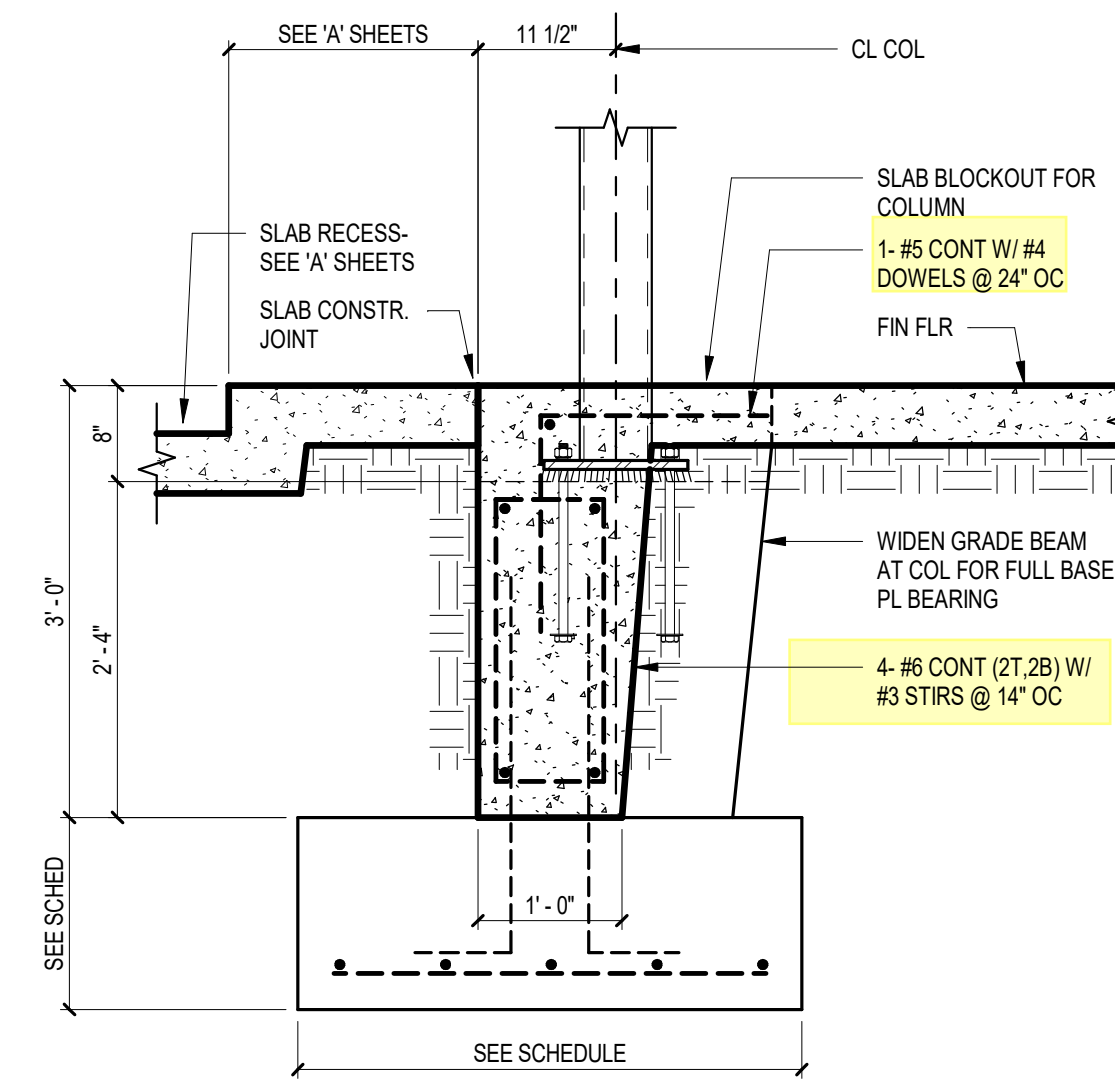
1 GRADE BEAM DETAIL
3/4" = 1'-0"



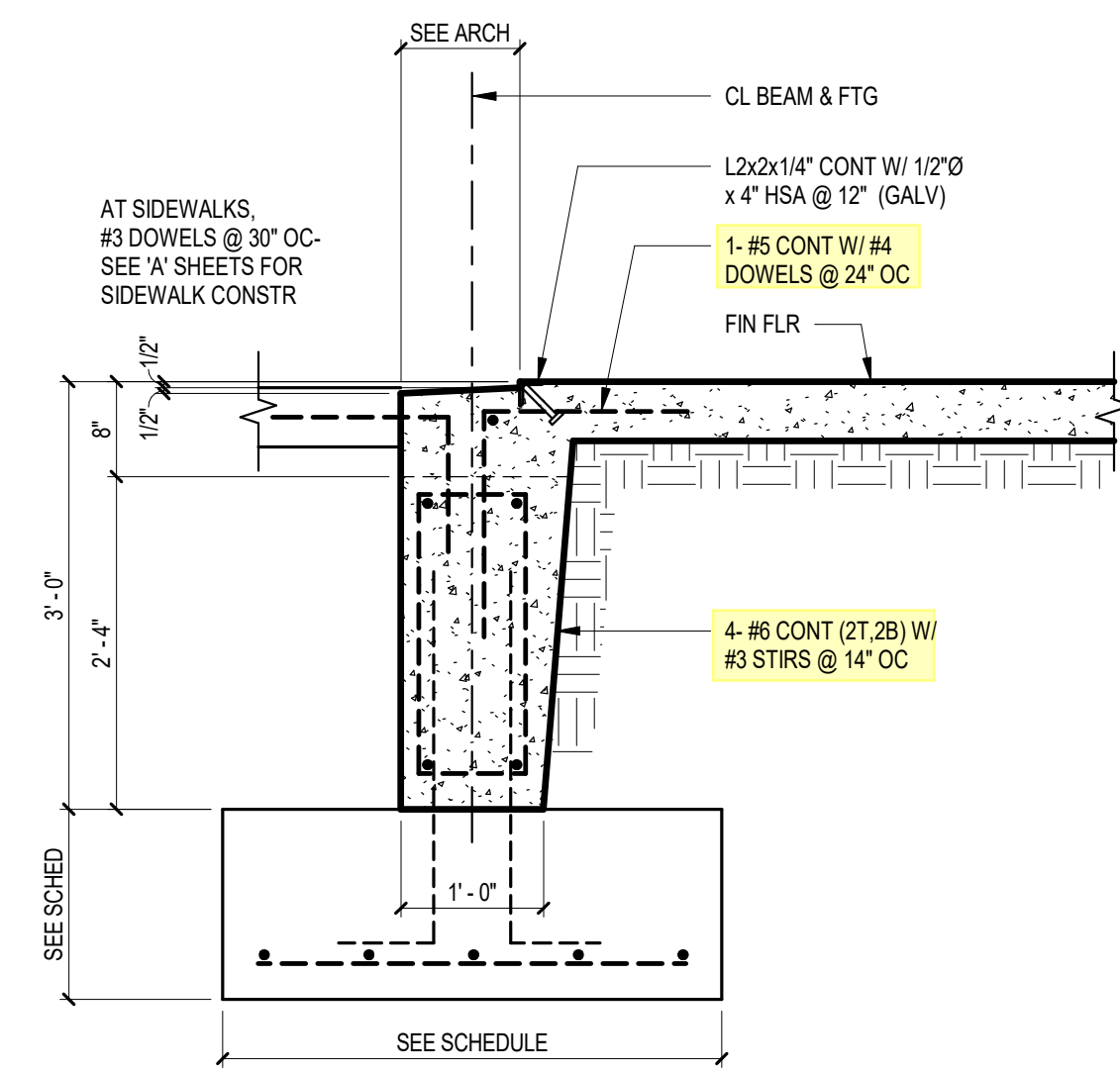
2 GRADE BEAM AT COL DETAIL
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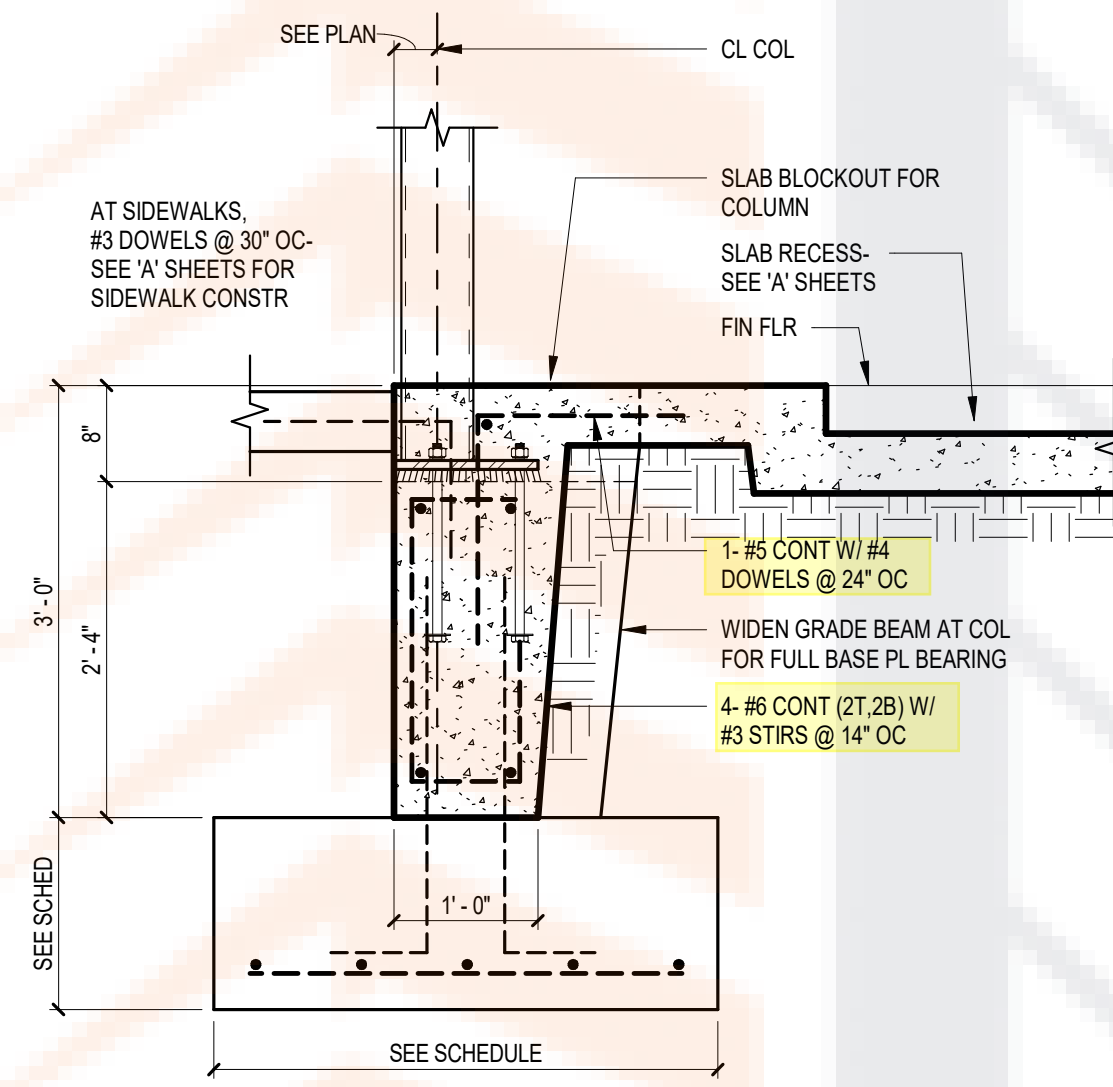
3 GRADE BEAM AT COL DETAIL
3/4" = 1'-0"



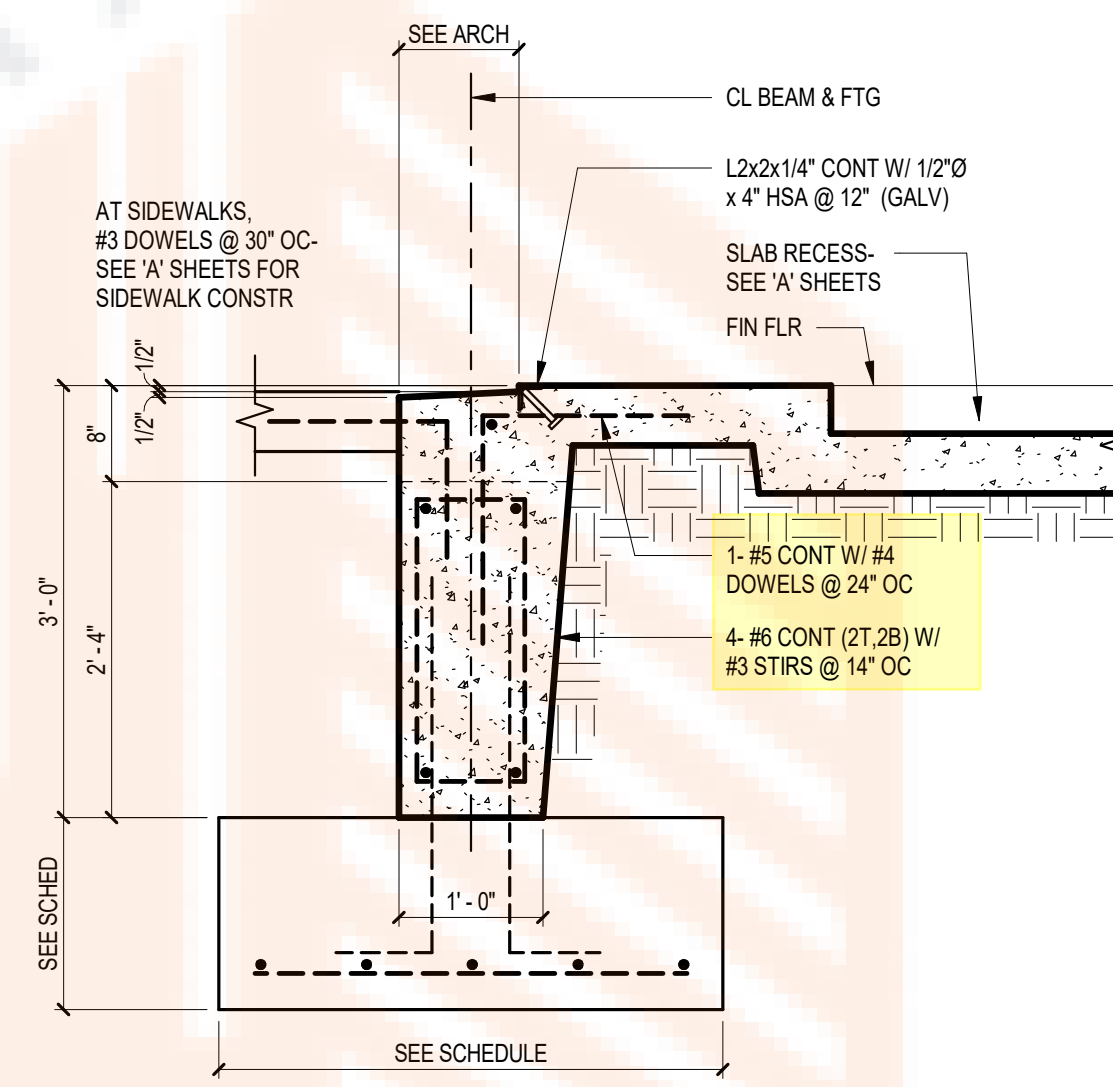
4 GRADE BEAM AT COL DETAIL
3/4" = 1'-0"



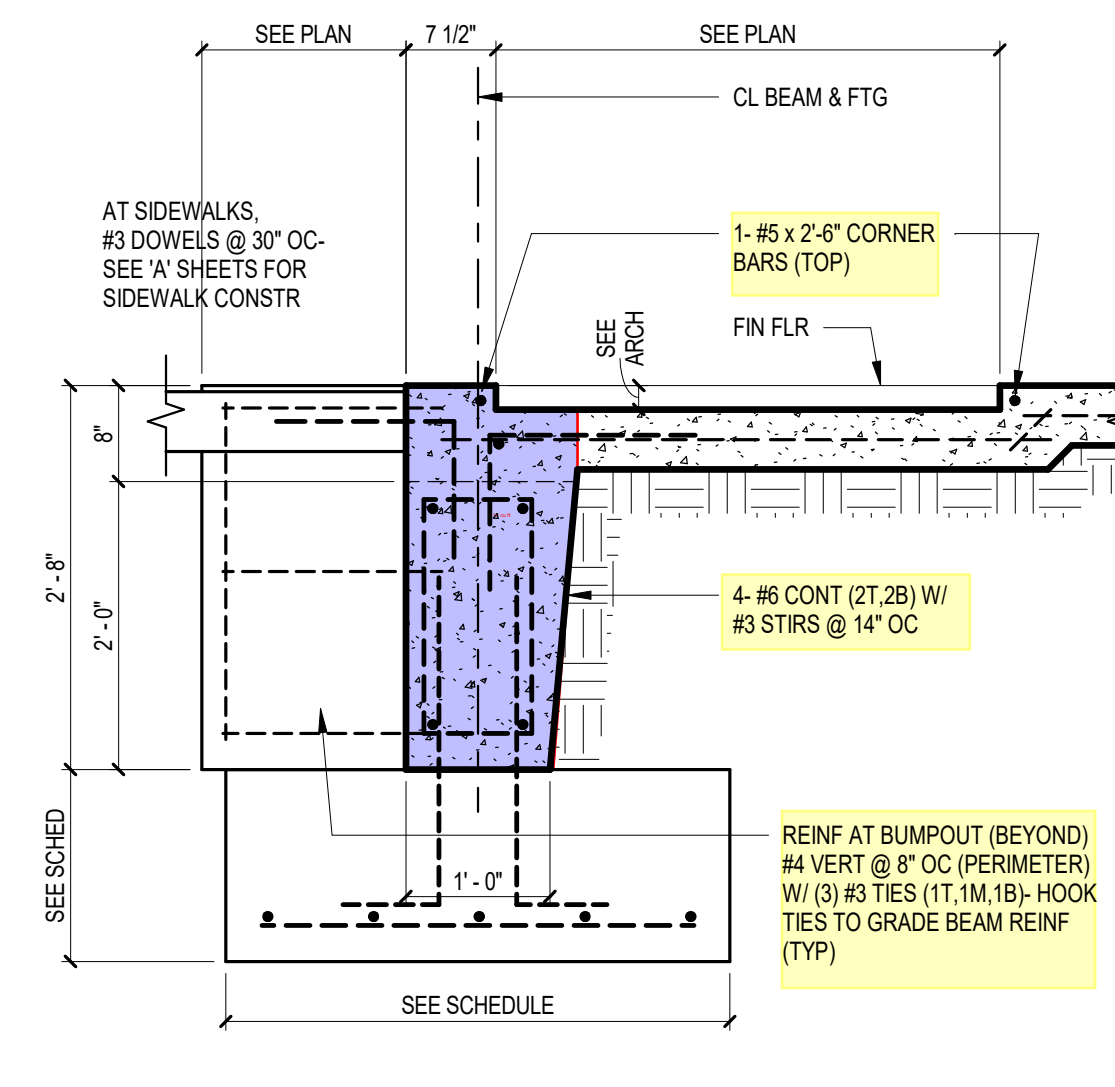
5 EXTERIOR GRADE BEAM AT O.H. DOOR
3/4" = 1'-0"



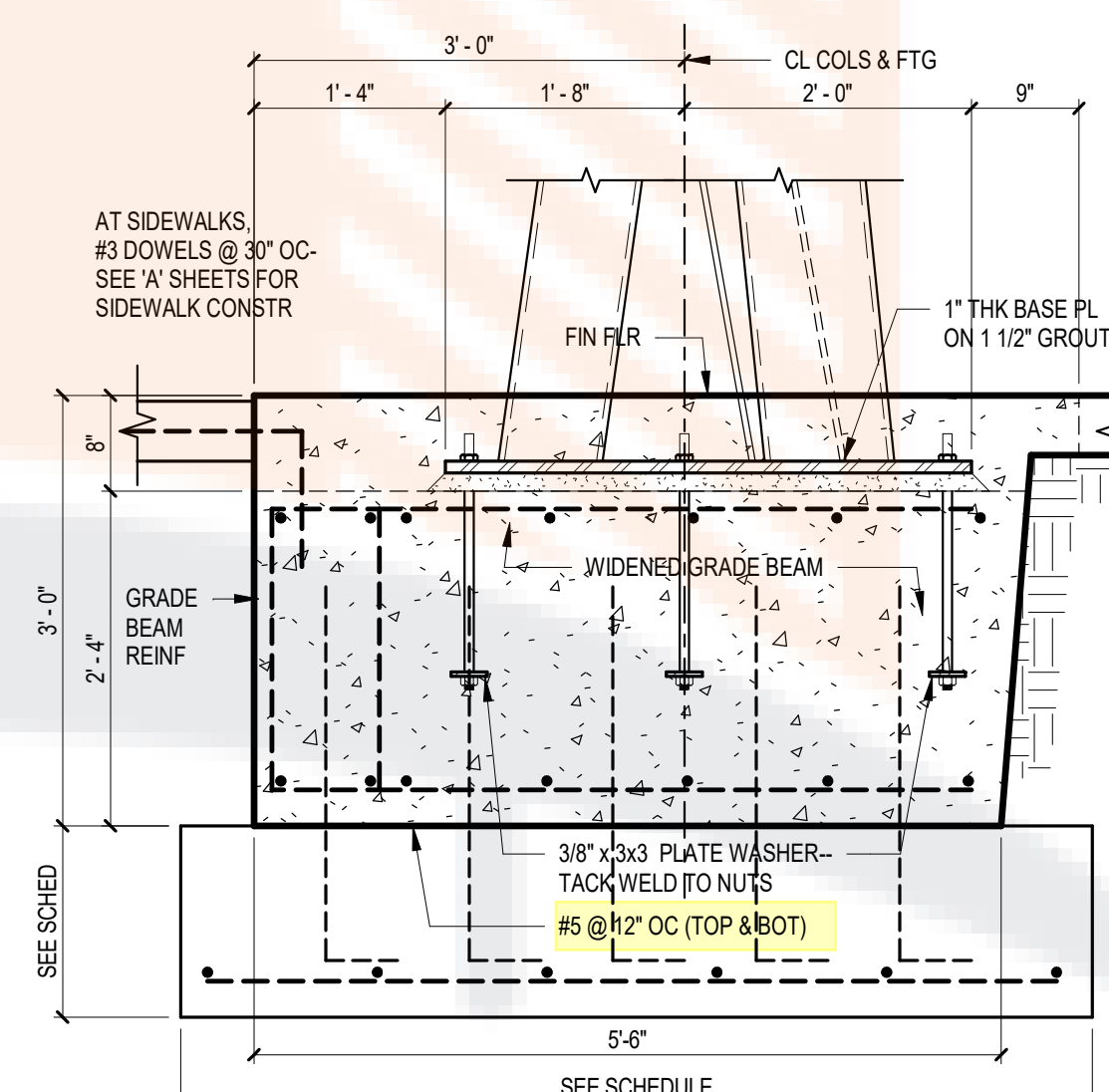
6 GRADE BEAM AT COL DETAIL
3/4" = 1'-0"



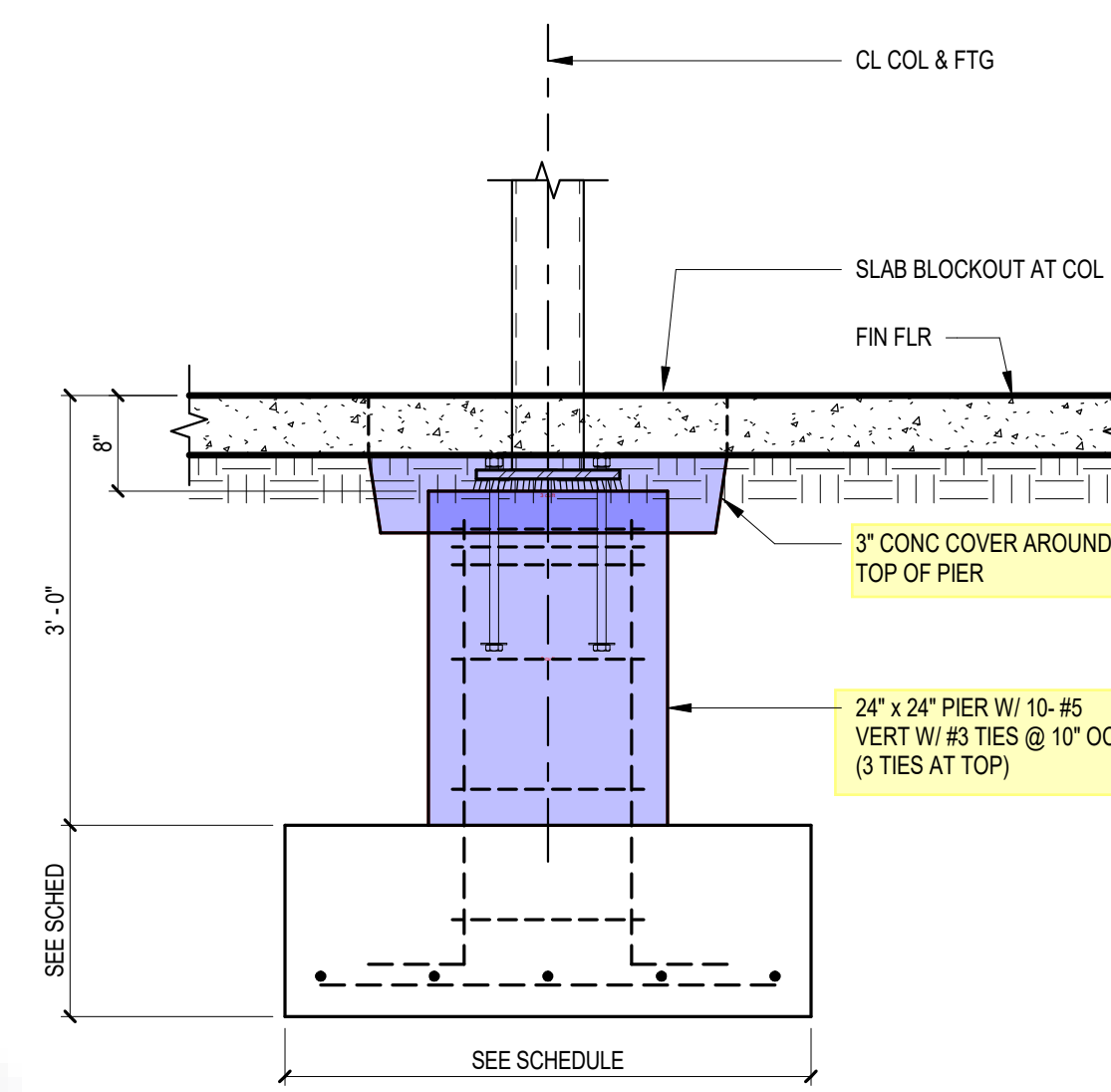
7 EXTERIOR GRADE BEAM AT O.H. DOOR
3/4" = 1'-0"



8 RECESS AT ENTRY
3/4" = 1'-0"



9 GRADE BEAM DETAIL AT SLOPED CLS
3/4" = 1'-0"



10 INTERIOR COLUMN DETAIL
3/4" = 1'-0"

Legend		
Description	Quantity	Unit
10/S401	10	cu ft
Grade beam Size: 1'-0" wide x 2'-8" deep	17	cu ft
Grade beam Size: 1'-0" wide x 3'-0" deep	1,836	cu ft
Rectangle	19	Count

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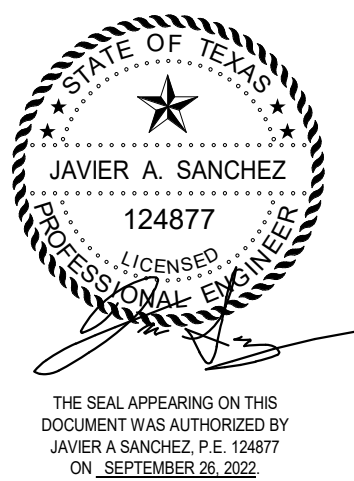
MEP ENGINEER
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19 SIERRA OAKS DR.
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PROJECT:
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ISSUE HISTORY:

DATE	DELTA	DESCRIPTION
07.28.2022		ISSUE FOR PERMIT
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PROJECT NUMBER: LA2216

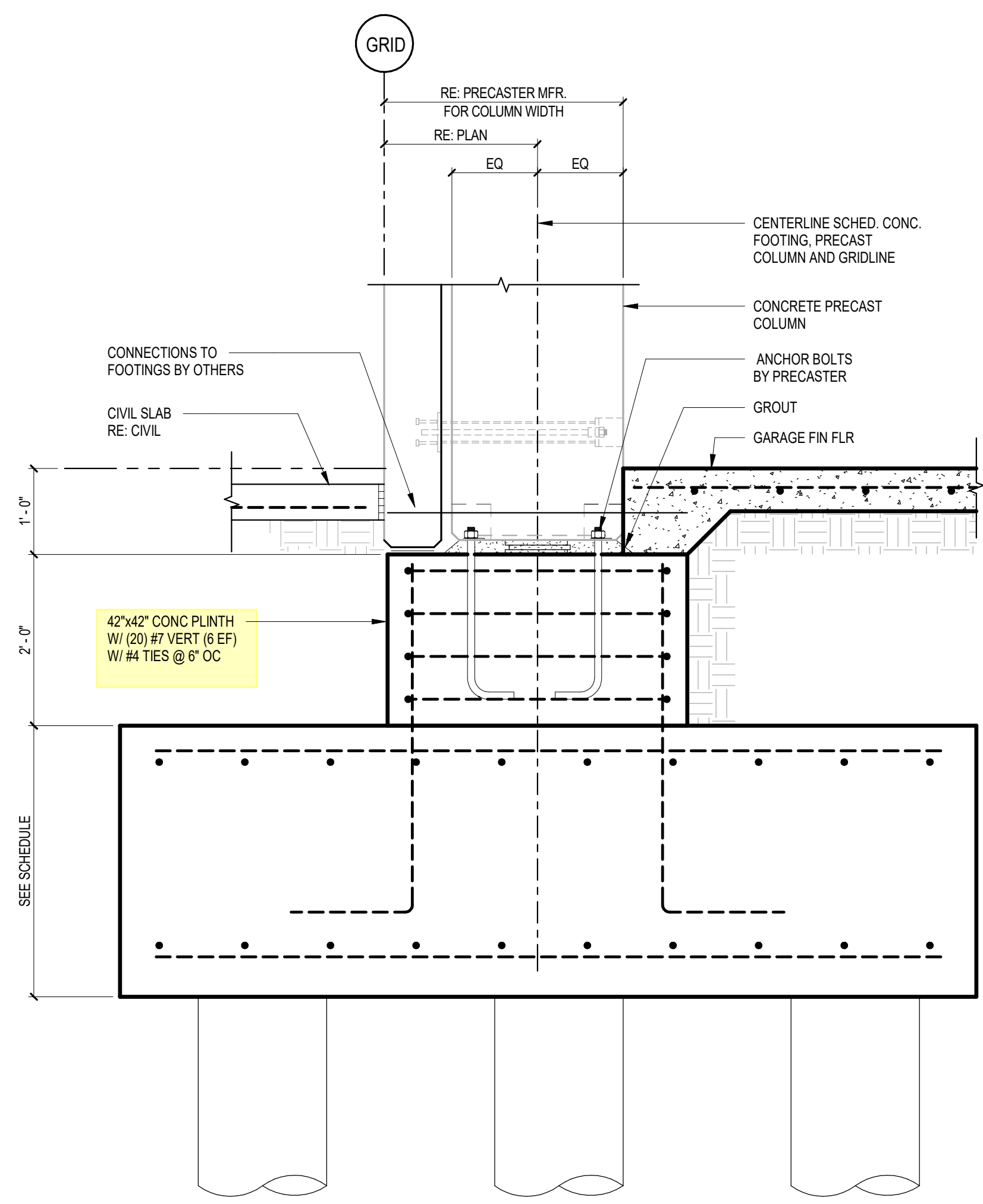
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SHEET NAME:

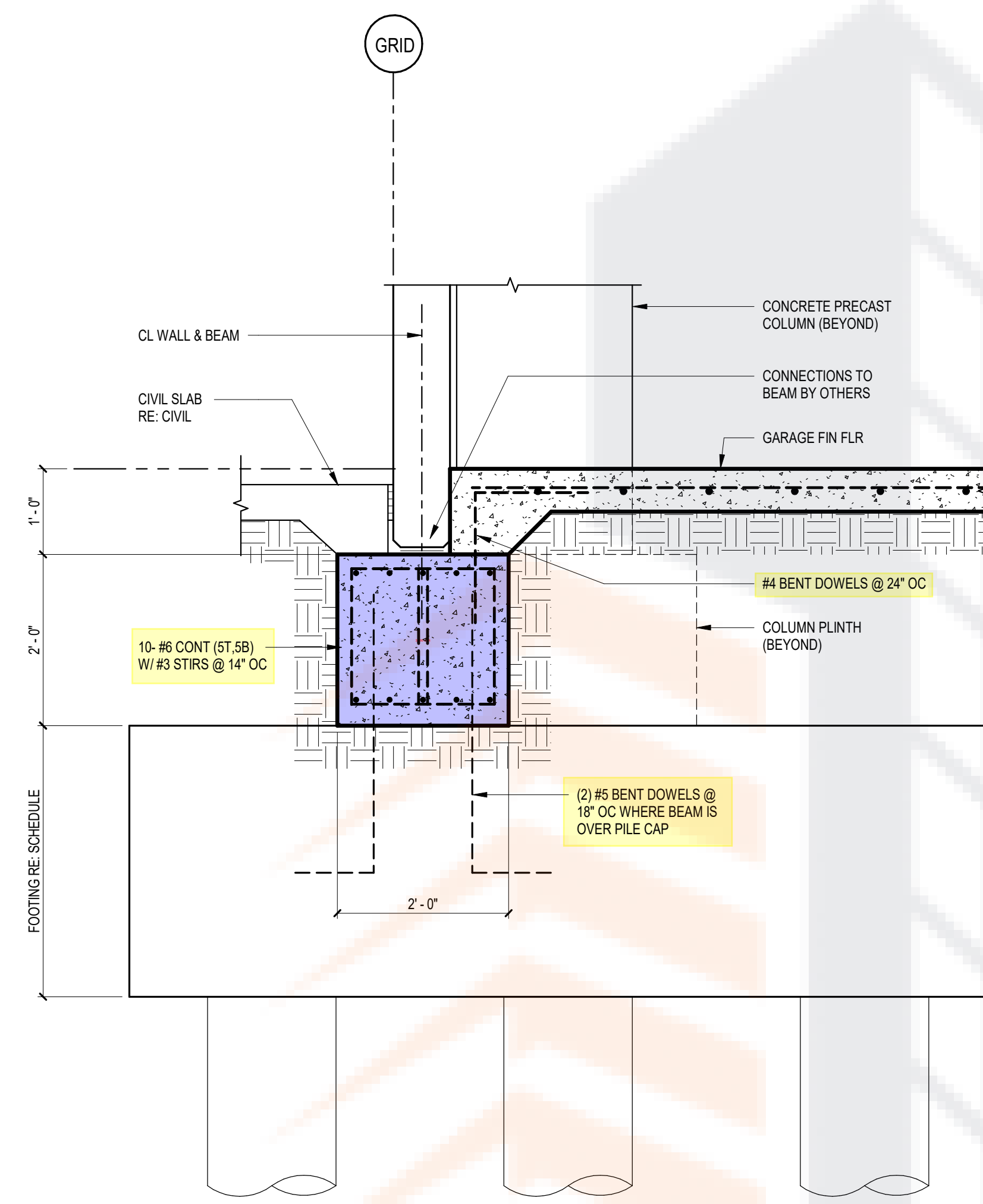
FOUNDATION DETAILS

SHEET:

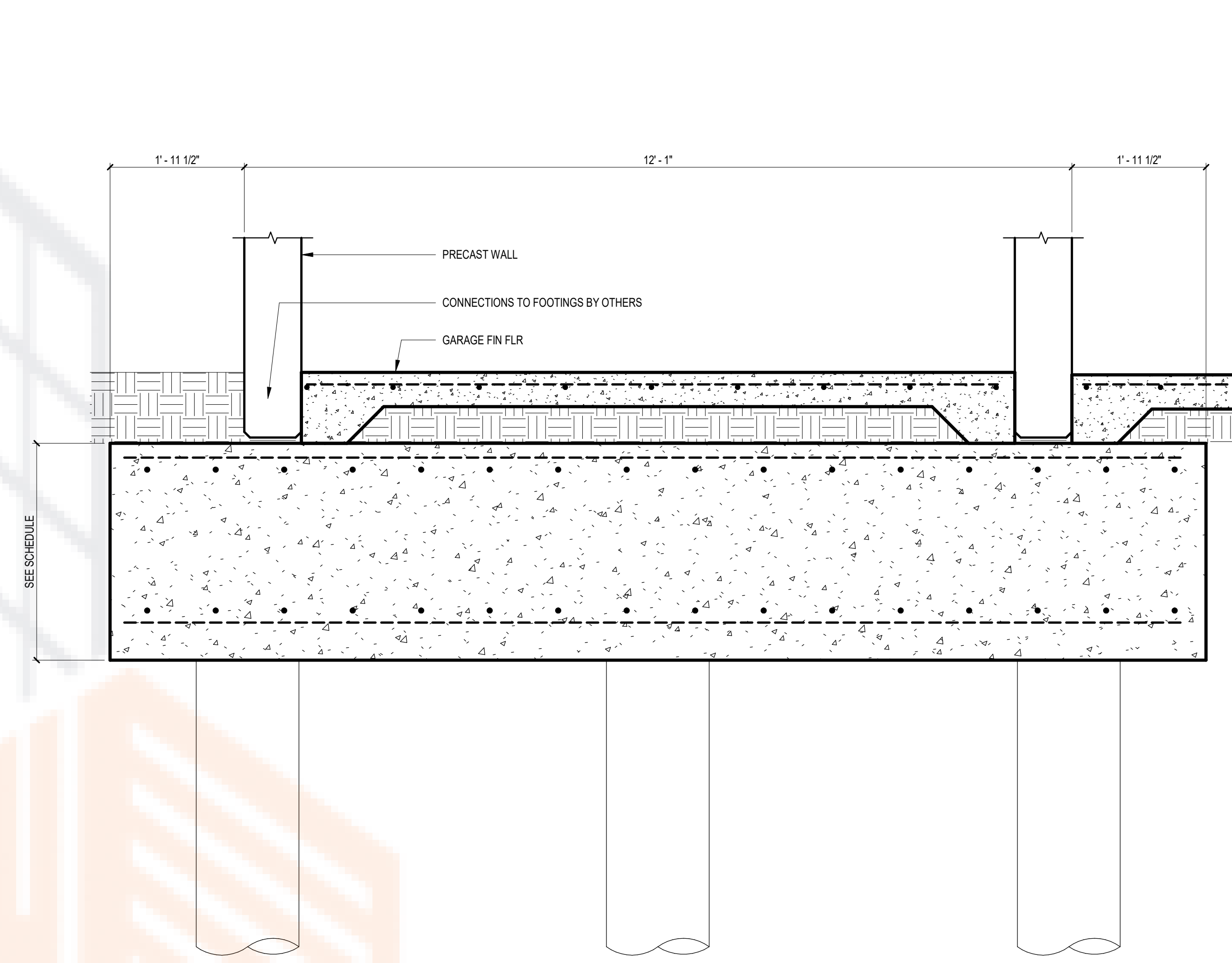
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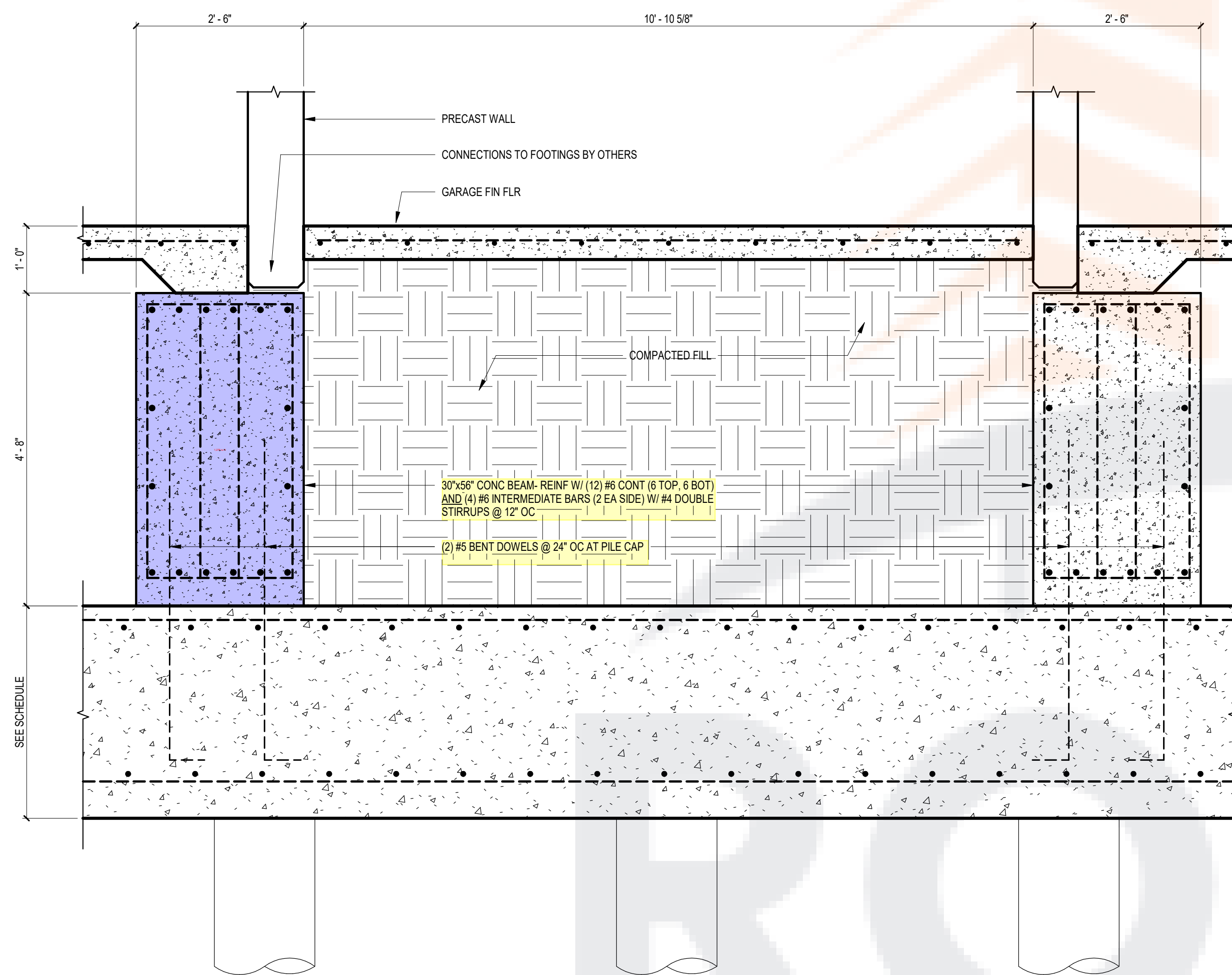
1 PRECAST COLUMN CONN TO FTG
3/4" = 1'-0"



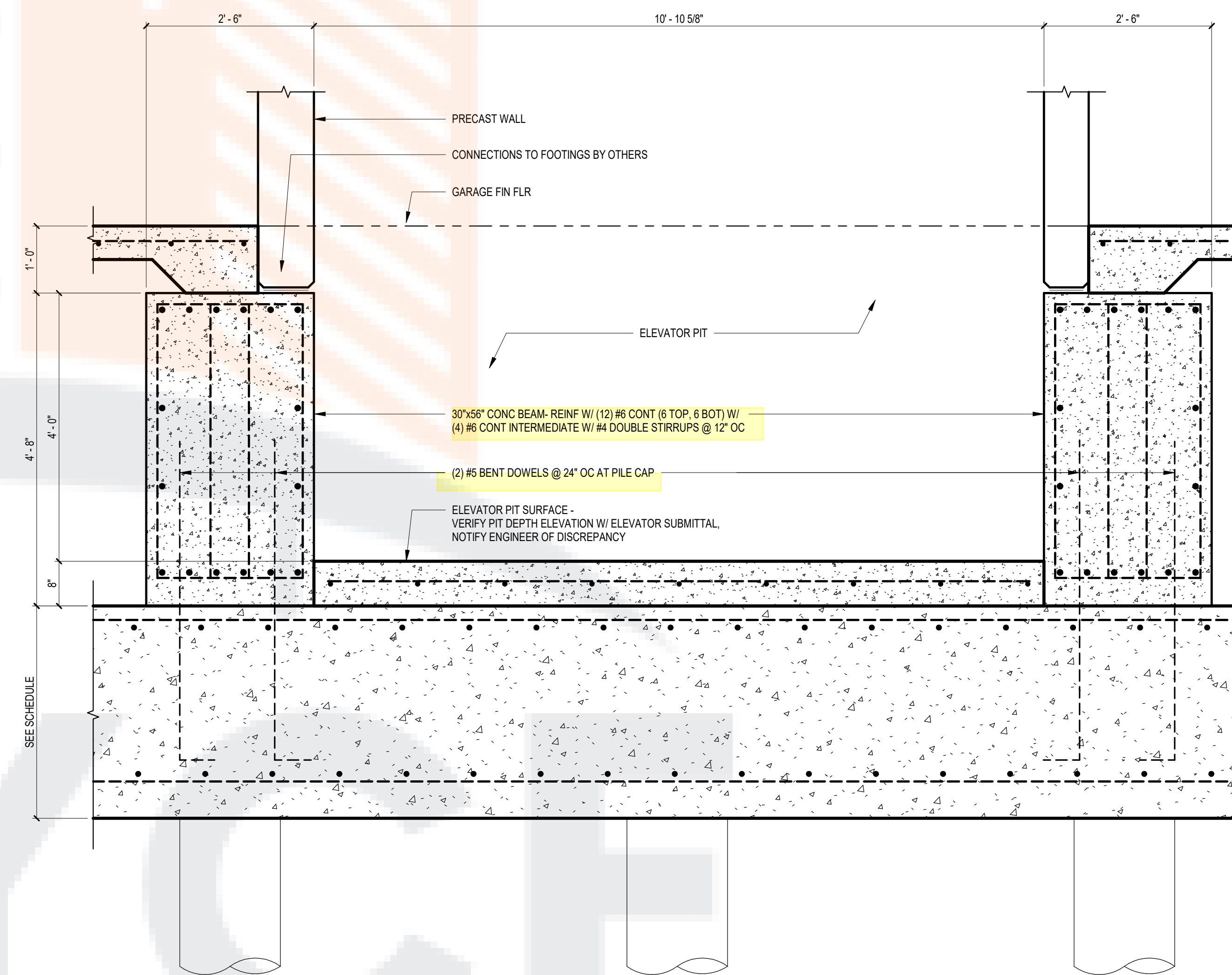
2 PRECAST WALL TO BEAM
3/4" = 1'-0"



3 STAIRWELL AT PILE CAP
3/4" = 1'-0"



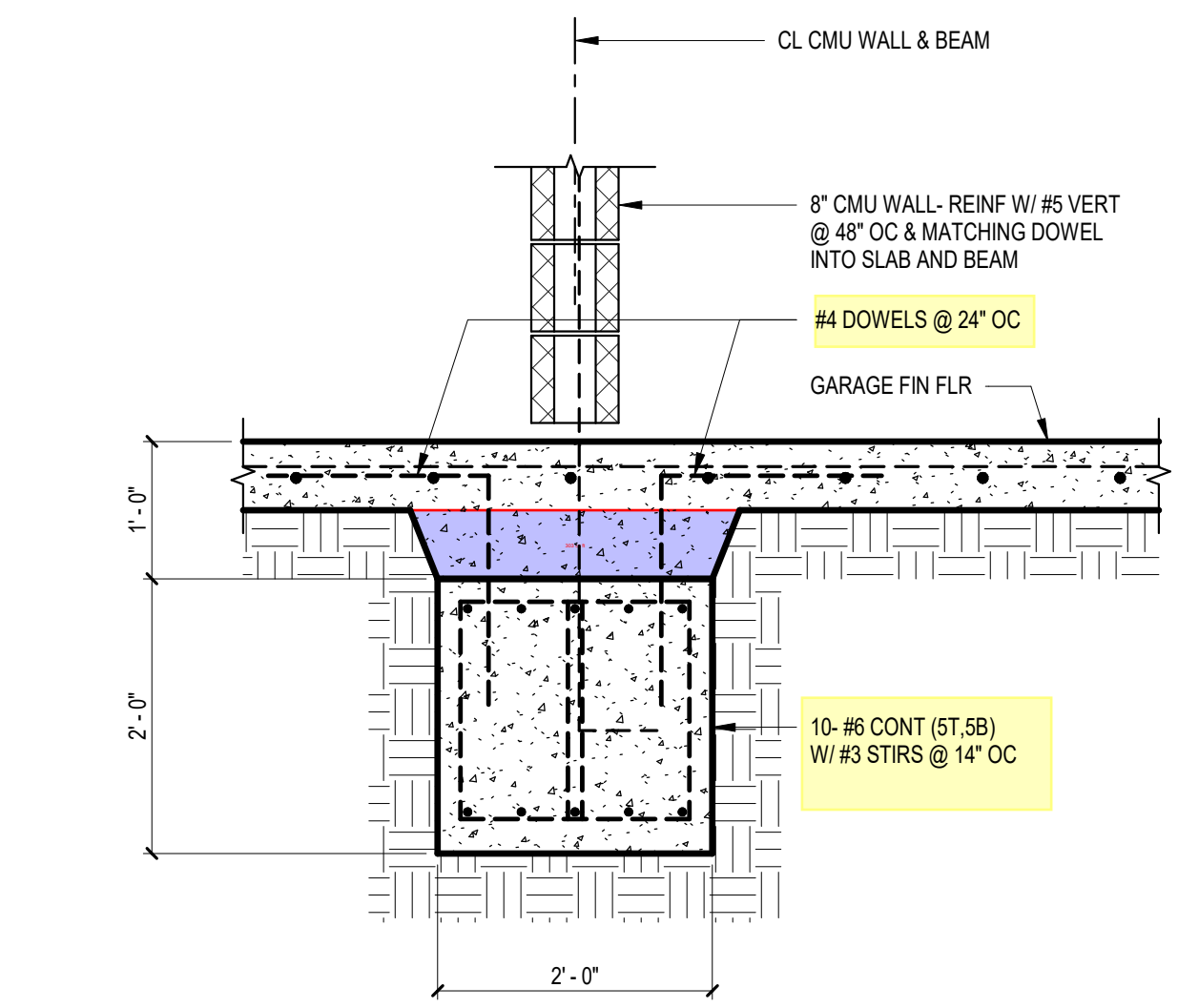
4 SECTION AT STAIRWELL AND ELEVATOR PIT
3/4" = 1'-0"



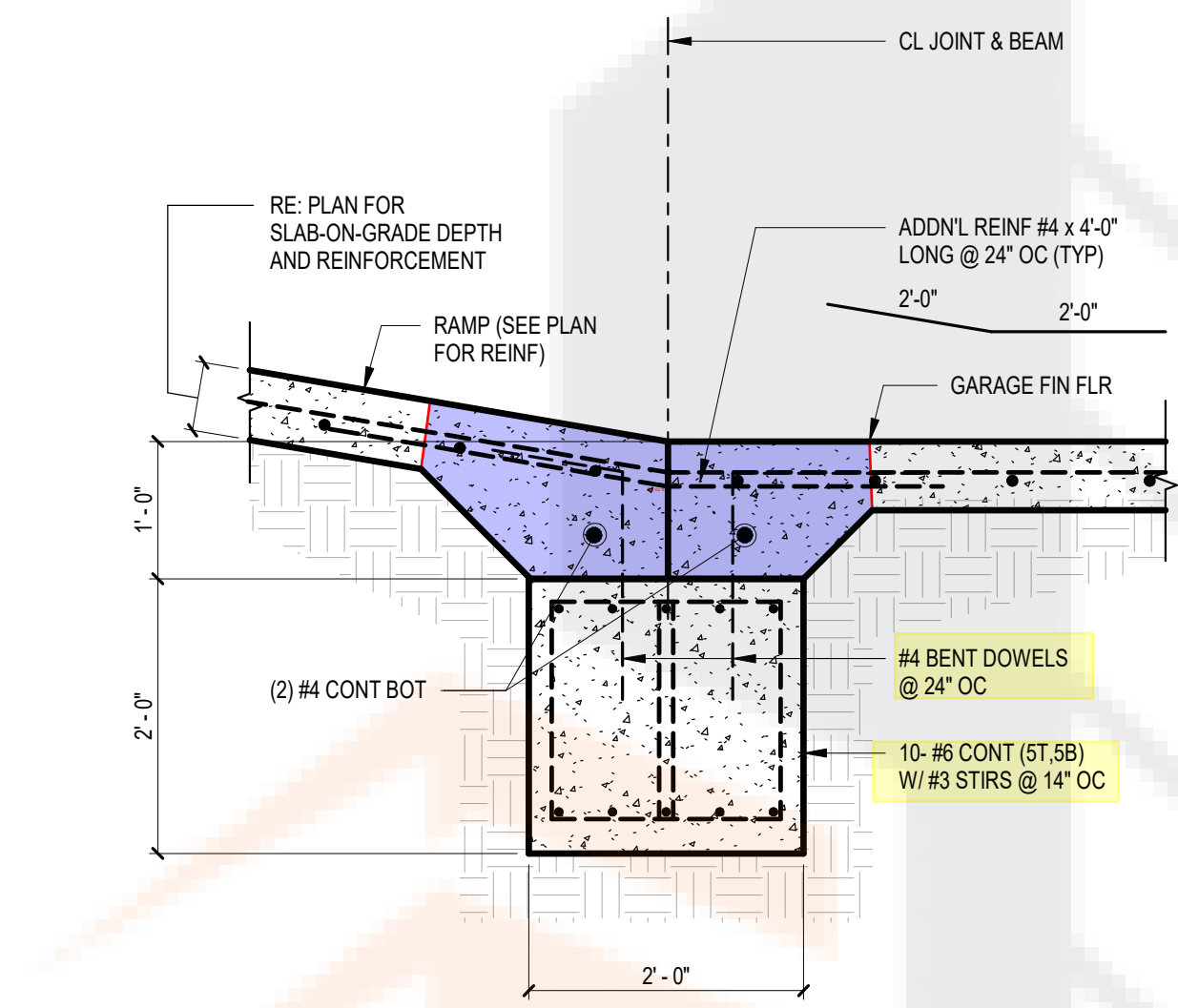
5 SECTION AT STAIRWELL AND ELEVATOR PIT
3/4" = 1'-0"

Legend		
Description	Quantity	Unit
Concrete beam @ stairwell & elevator pit Size: 30" x 56"	1,278	cu ft
Grade beam Size: 2'-0" wide x 2'-0" deep	3,695	cu ft
Rectangle	8	Count

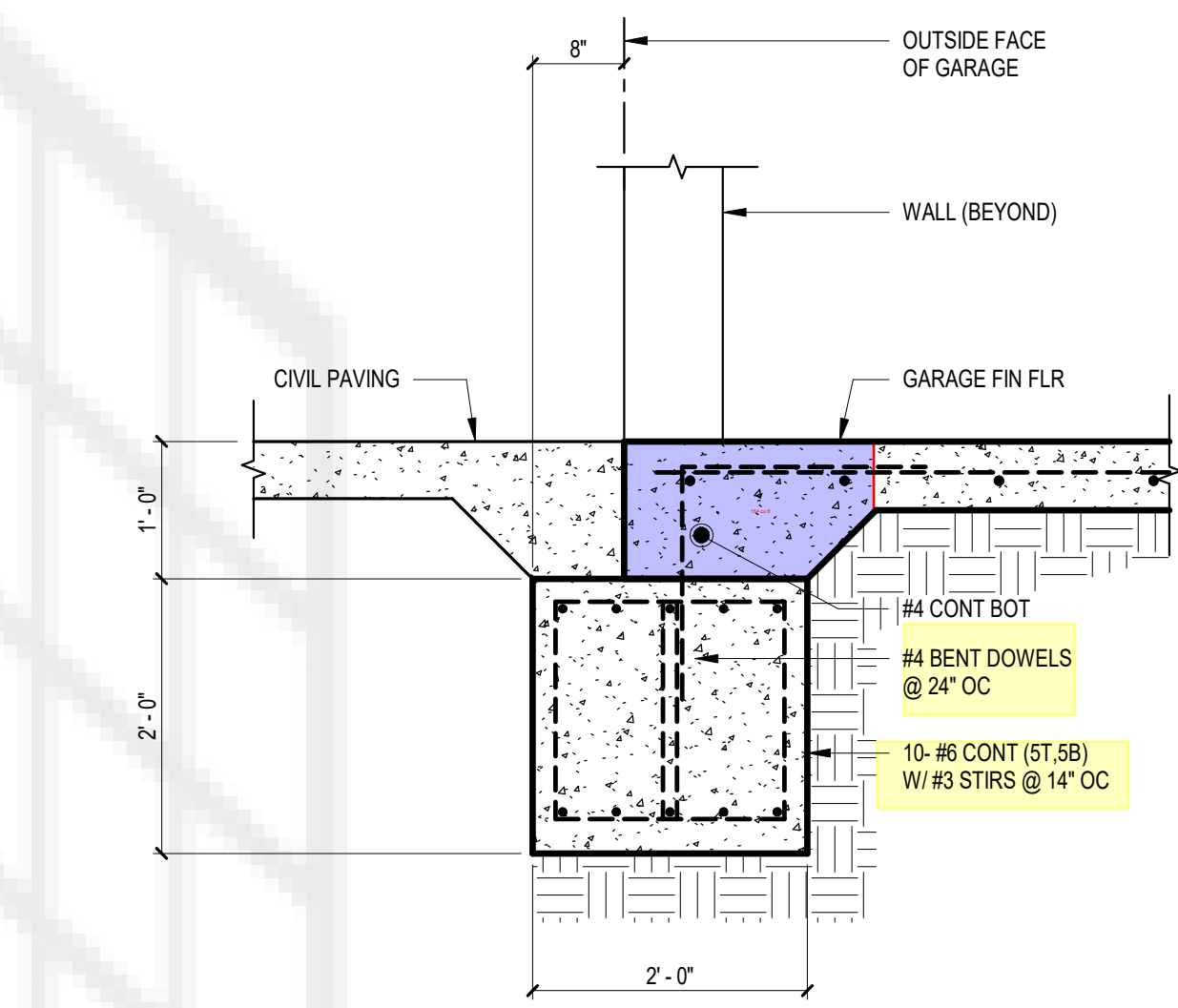
Legend		
Description	Quantity	Unit
12" thick retaining wall	153	cu ft
Grade beam @ slab joint Size: 1'-0" wide x 3'-0" deep	592	cu ft
Lift infill slab	644	cu ft
Ramp transition concrete	66	cu ft
Rectangle	16	Count
Thickened slab edge @ entrance	154	cu ft
Thickened slab edge at garage CMU walls	303	cu ft
Thickened slab edge on retaining wall	29	cu ft
Thickened slab edge on steel column	50	cu ft
Thickened slab on low CMU wall	273	cu ft



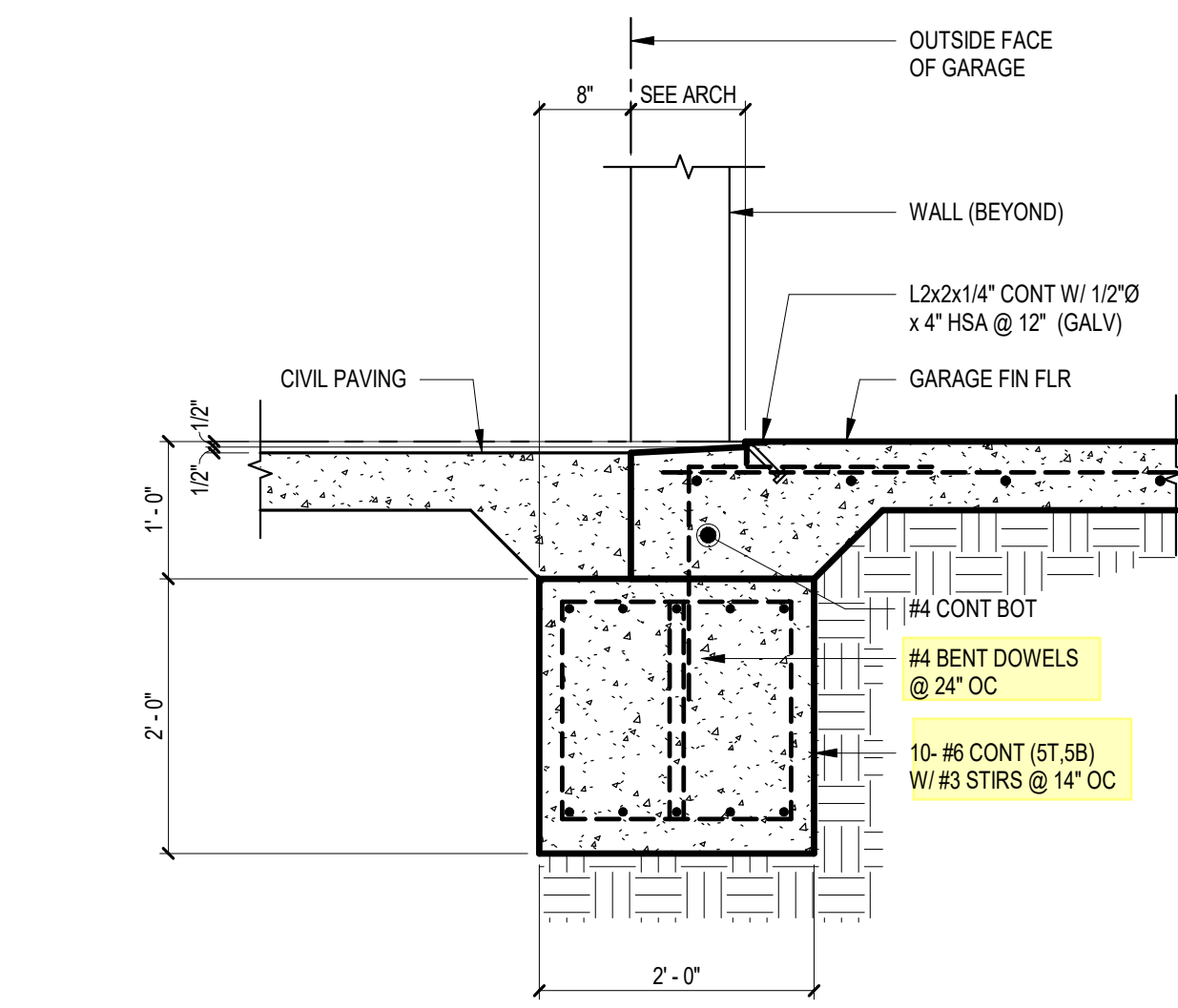
1 CMU WALLS AT GARAGE DETAIL
3/4" = 1'-0"



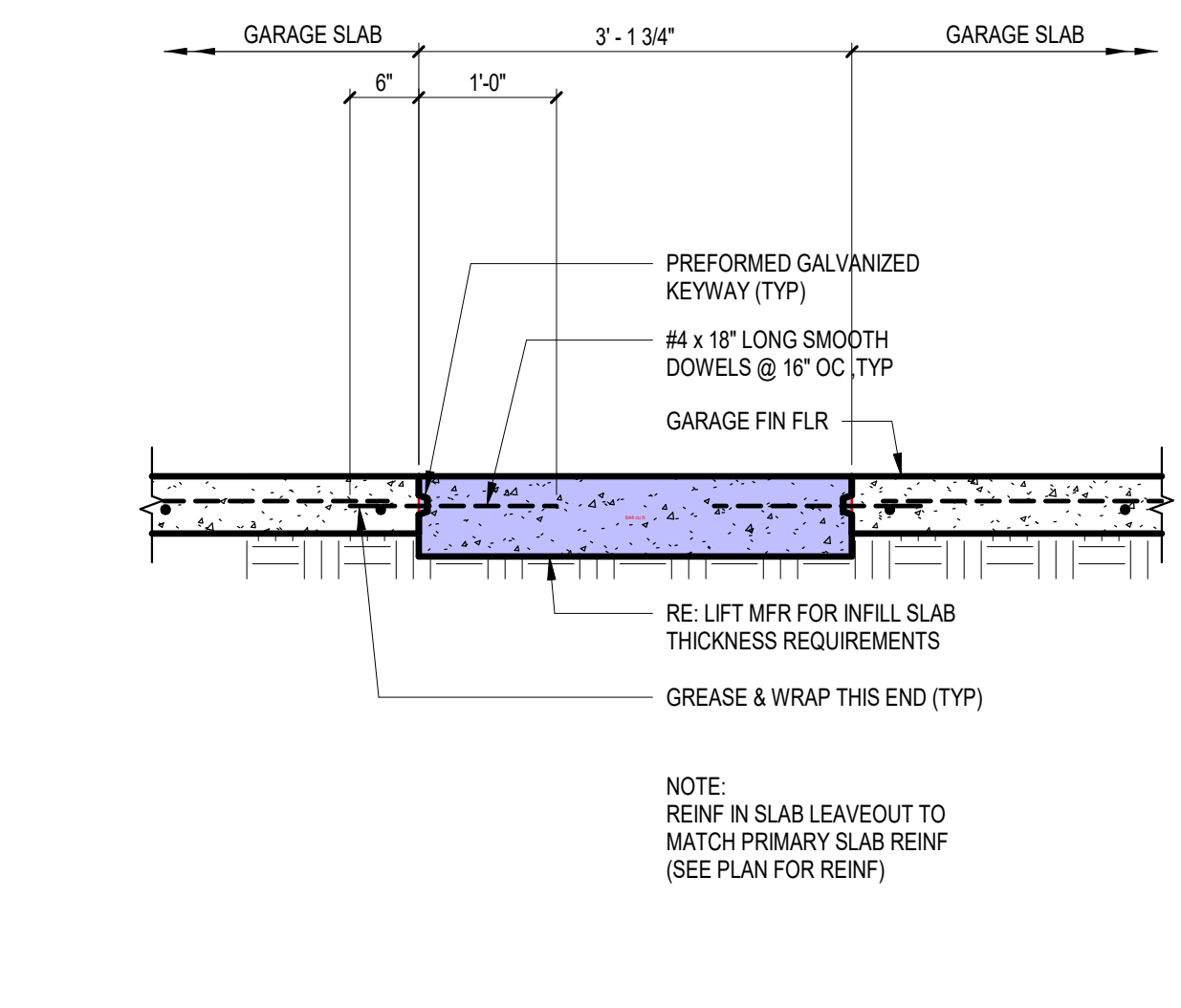
2 RAMP TRANSITION AT SLAB-ON-GRADE
3/4" = 1'-0"



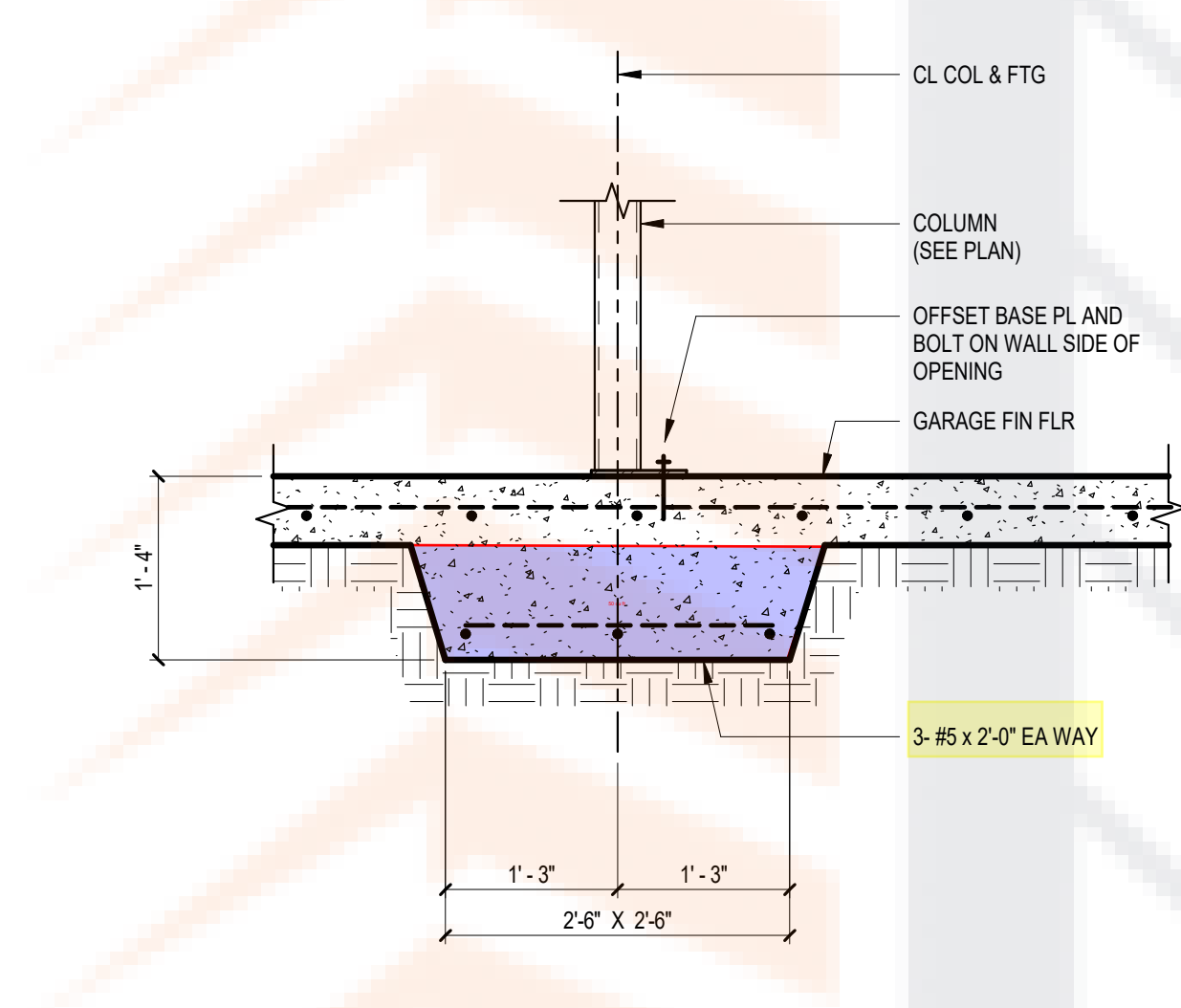
3 SLAB-ON-GRADE @ ENTRANCE
3/4" = 1'-0"



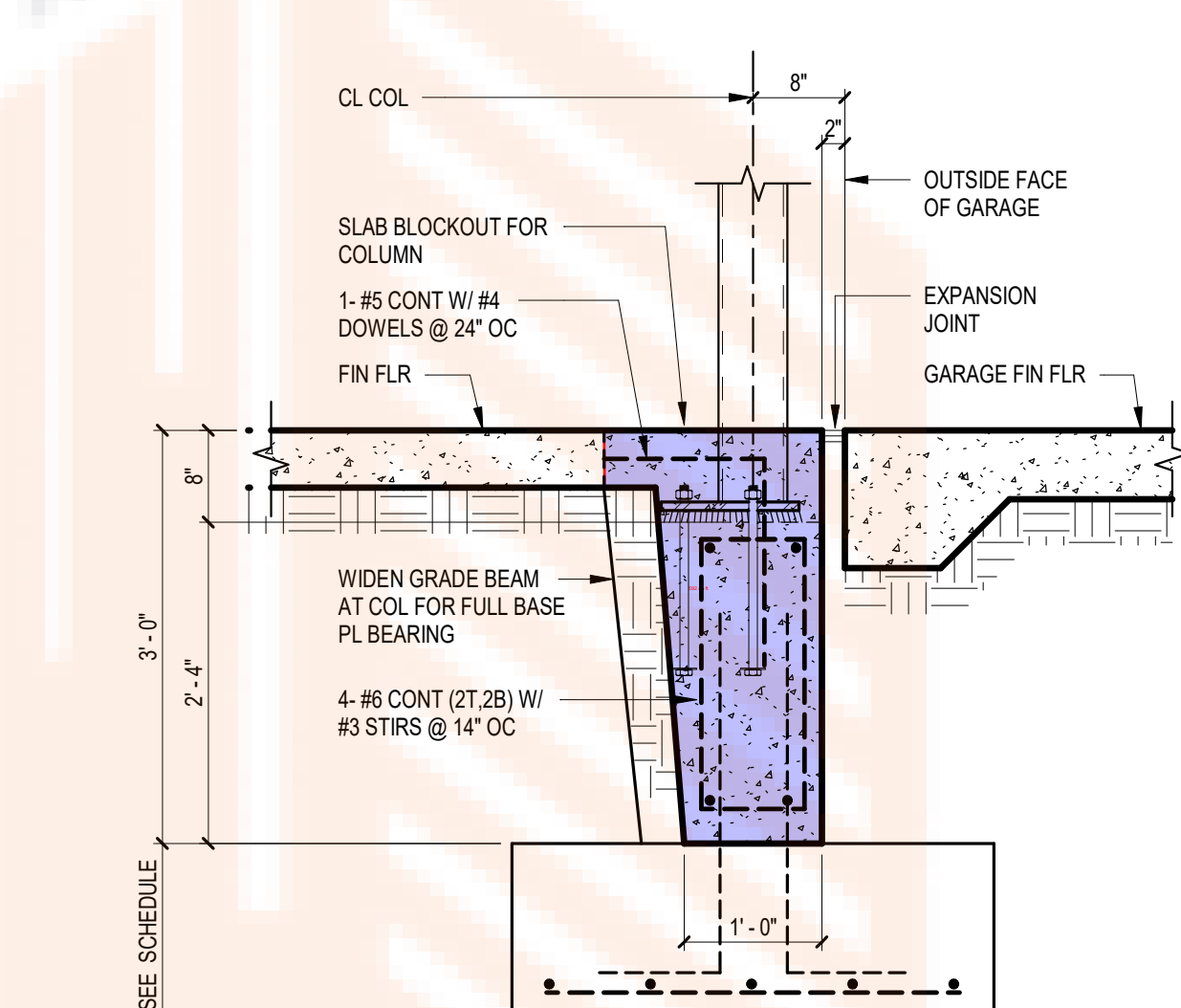
4 GARAGE O.H. DOOR EDGE DETAIL
3/4" = 1'-0"



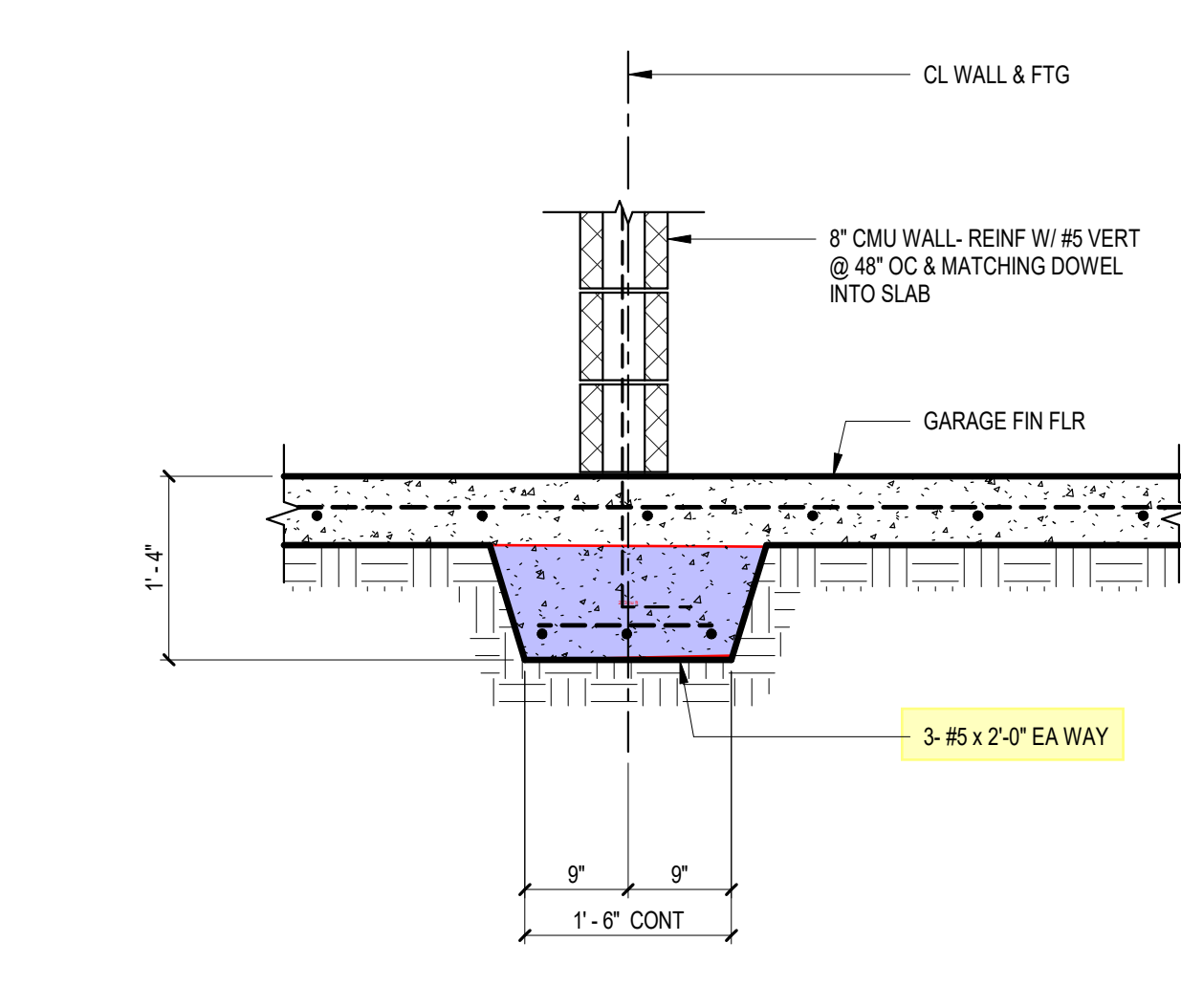
5 SLAB LEAVE OUT DETAIL
3/4" = 1'-0"



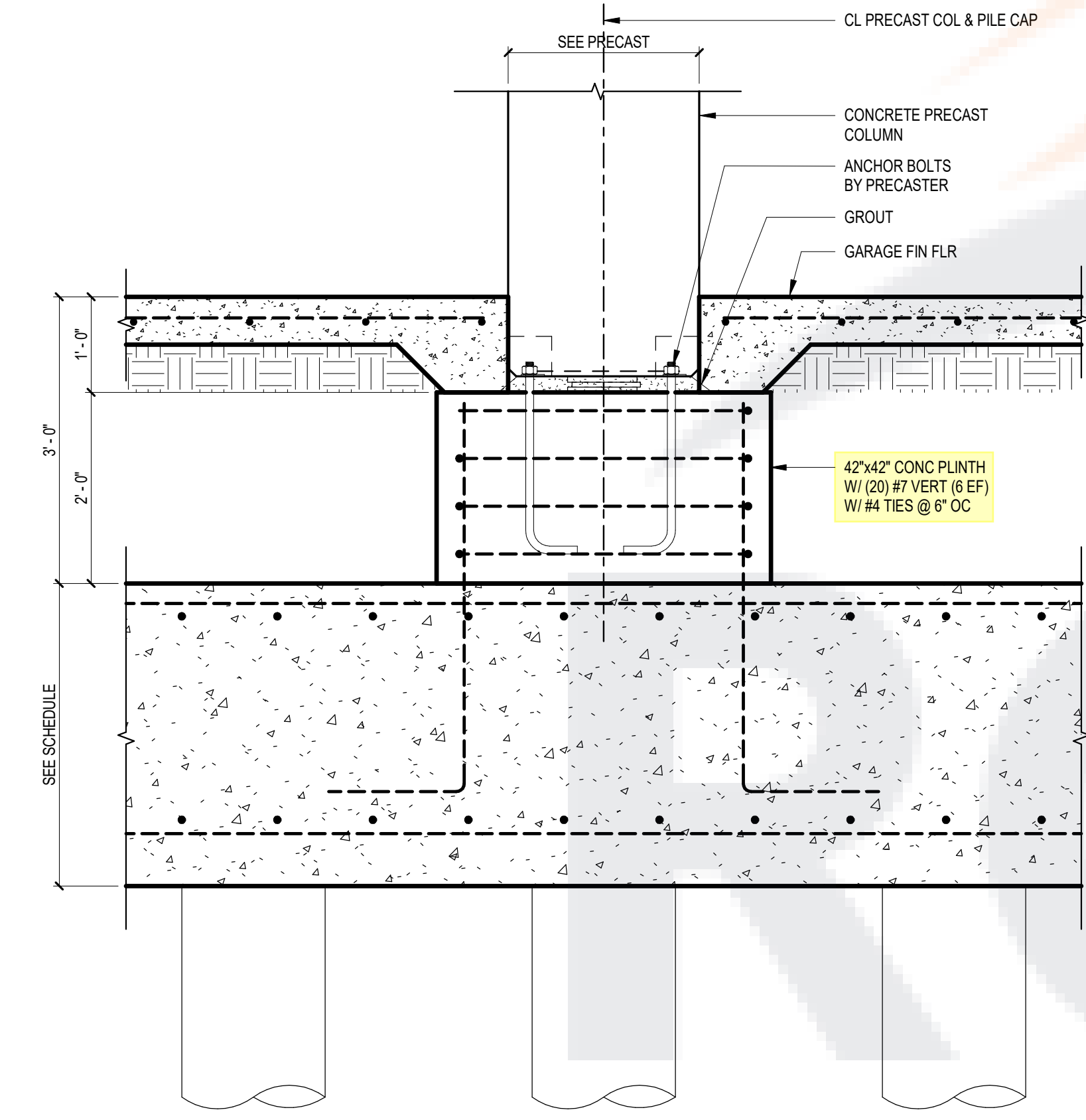
6 COLUMN ON THICKENED SLAB DETAIL
3/4" = 1'-0"



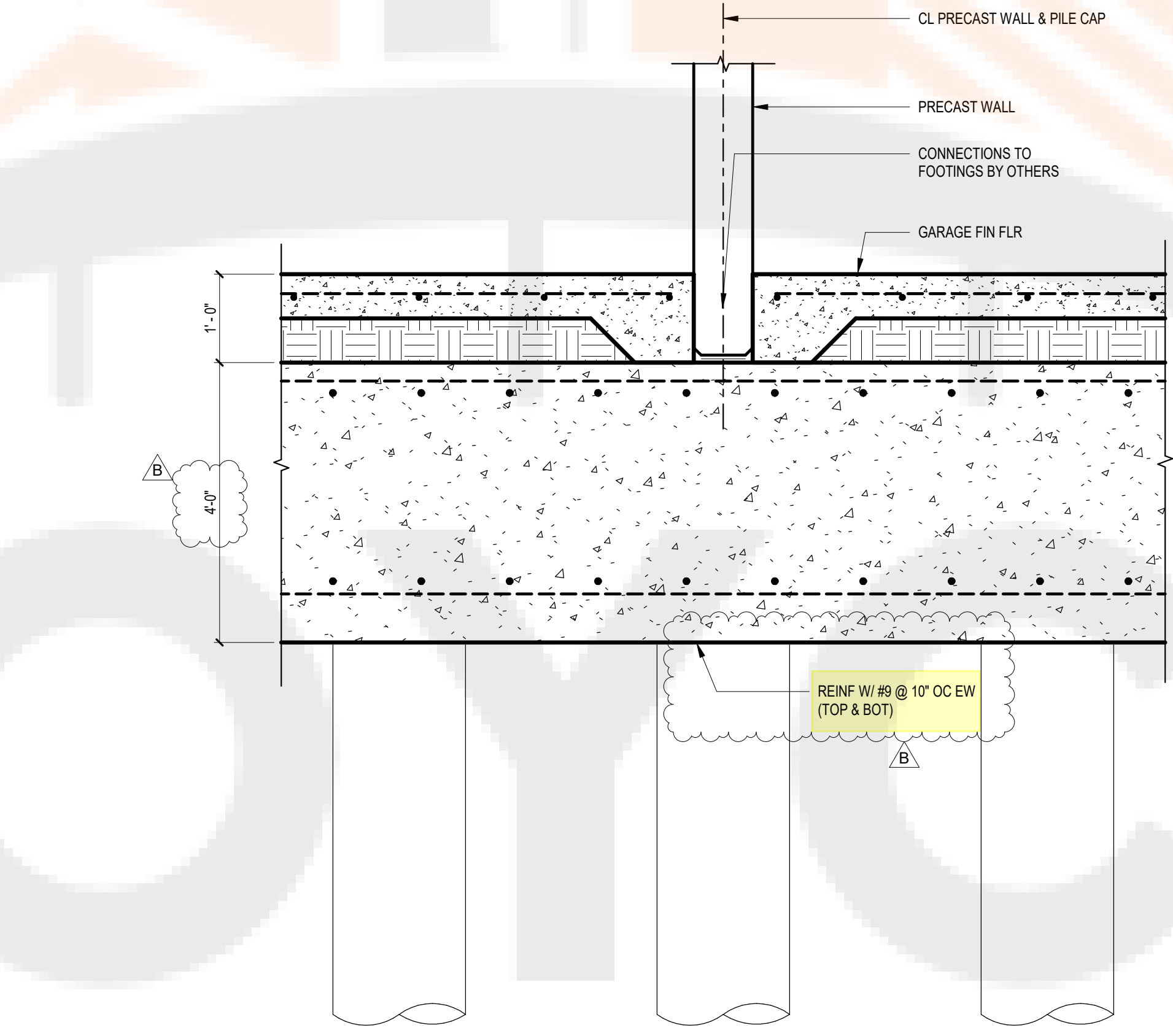
7 BUILDING / GARAGE SLAB JOINT DETAIL
3/4" = 1'-0"



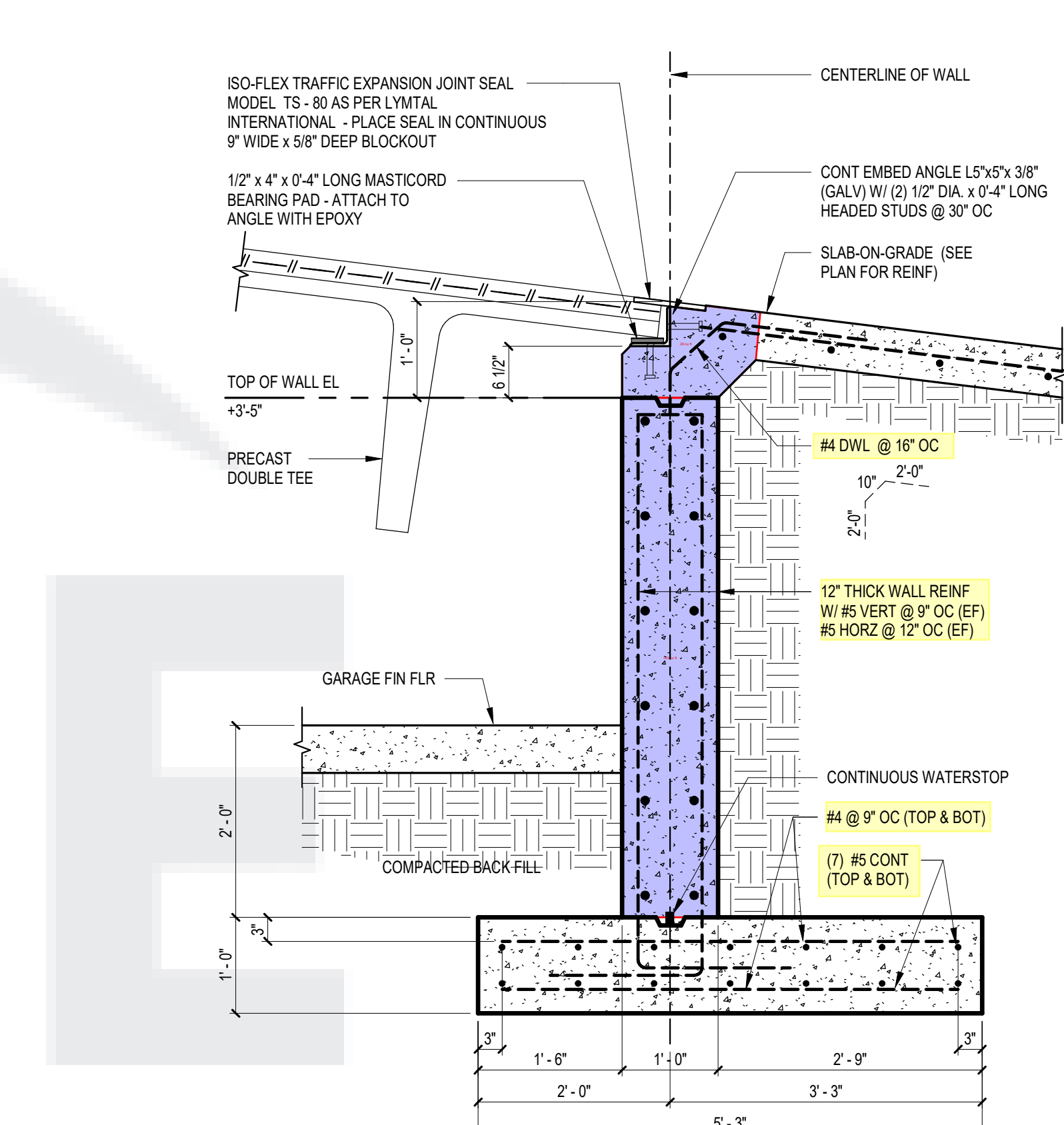
8 LOW CMU WALL ON THICKENED SLAB DETAIL
3/4" = 1'-0"



9 INTERIOR COLUMN DETAIL
3/4" = 1'-0"



10 SHEARWALL AT PILE CAP
3/4" = 1'-0"



11 RETAINING WALL SECTION
3/4" = 1'-0"

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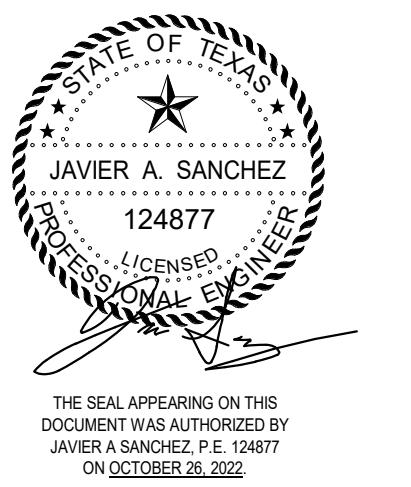
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SPECTRUM DESIGN ENGINEERS
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832.766.6076

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PROJECT:
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PROJECT ADDRESS:
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ISSUE HISTORY:

DATE	DELTA	DESCRIPTION
07.28.2022		ISSUE FOR PERMIT
09.26.2022		ISSUE FOR BID
10.26.2022	B	ADDENDUM 1

PROJECT NUMBER: LA2216

ISSUE DATE: 07/26/22

SHEET NAME:

FOUNDATION DETAILS

SHEET:

S403

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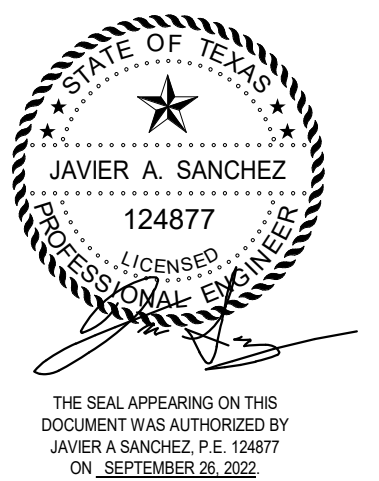
MEP ENGINEER
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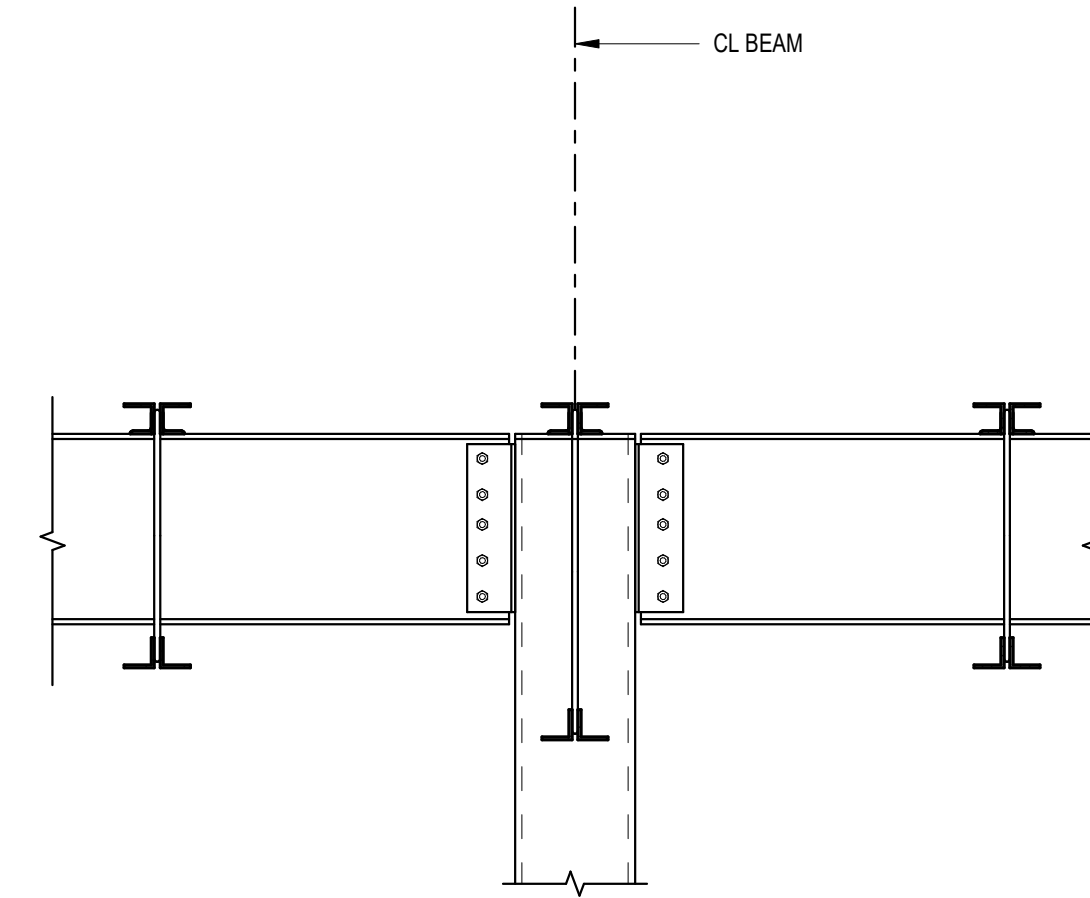
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SHEET NAME:

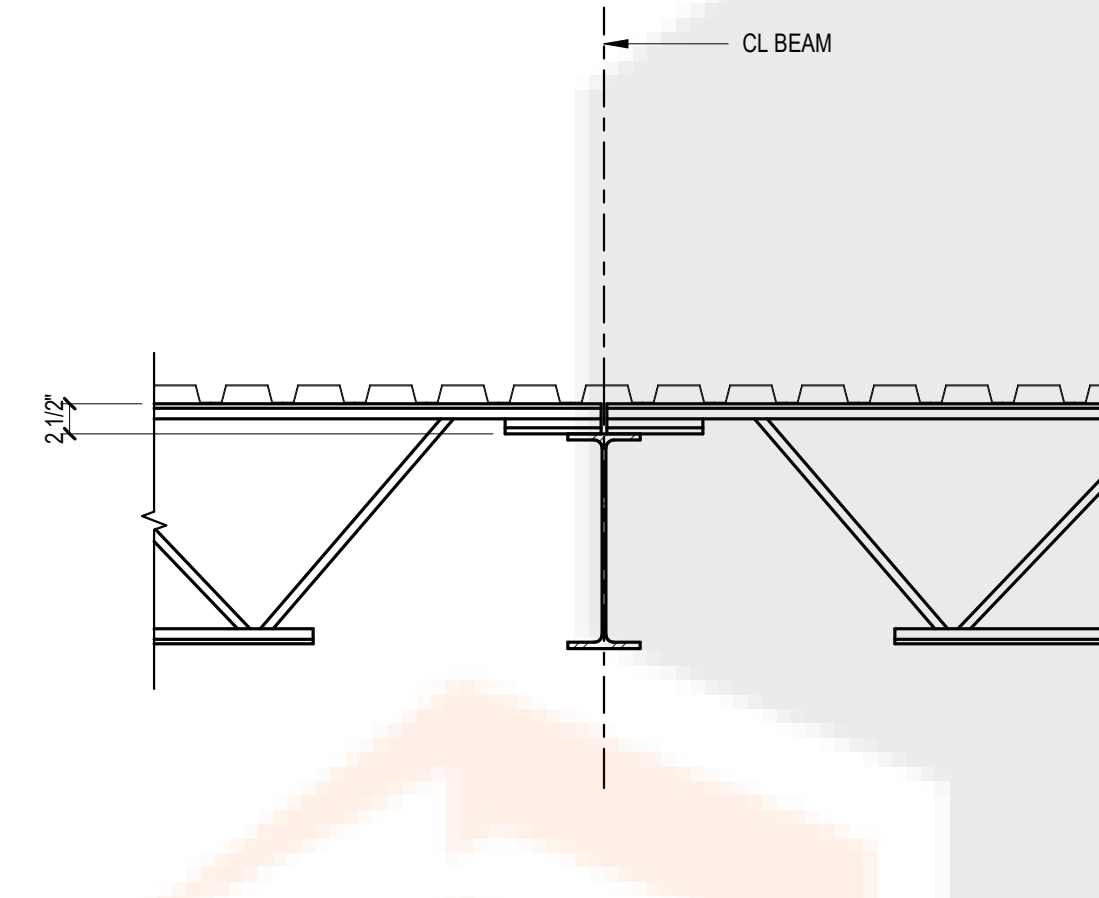
TYPICAL FRAMING DETAILS

SHEET:

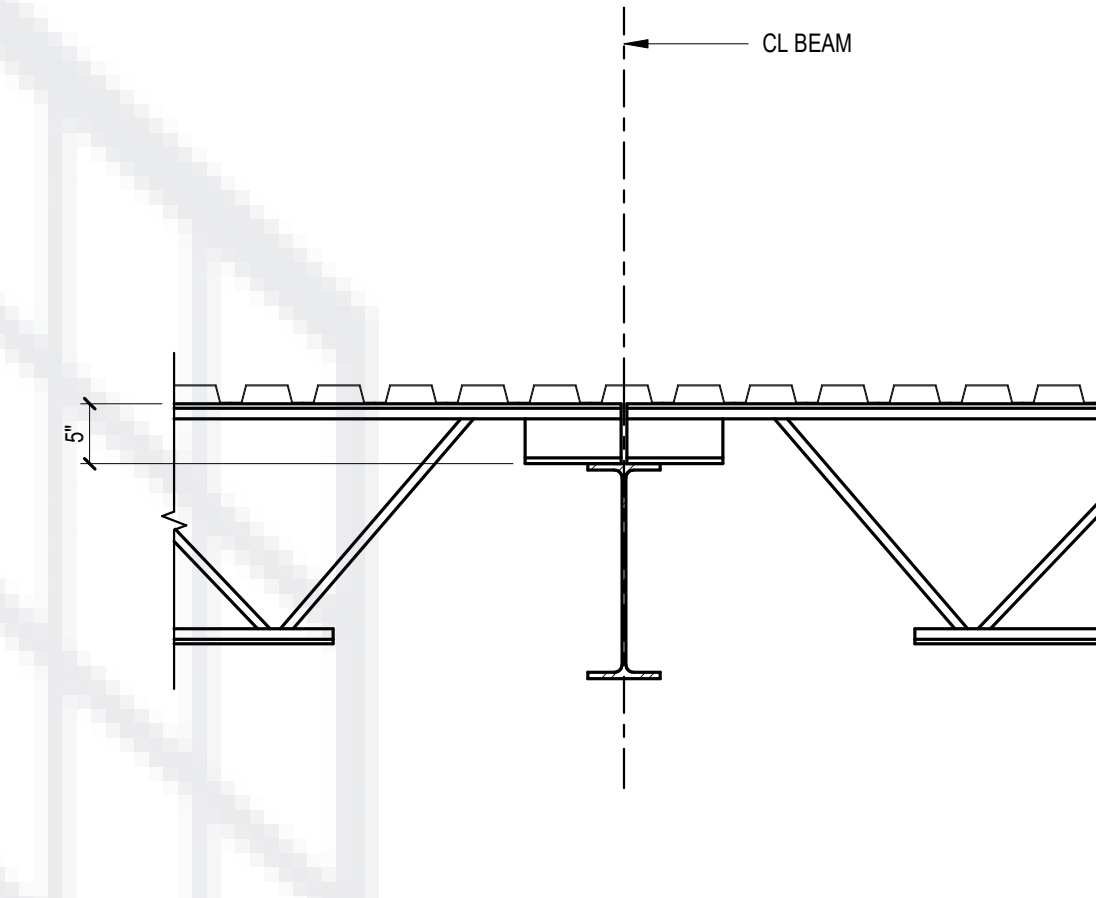
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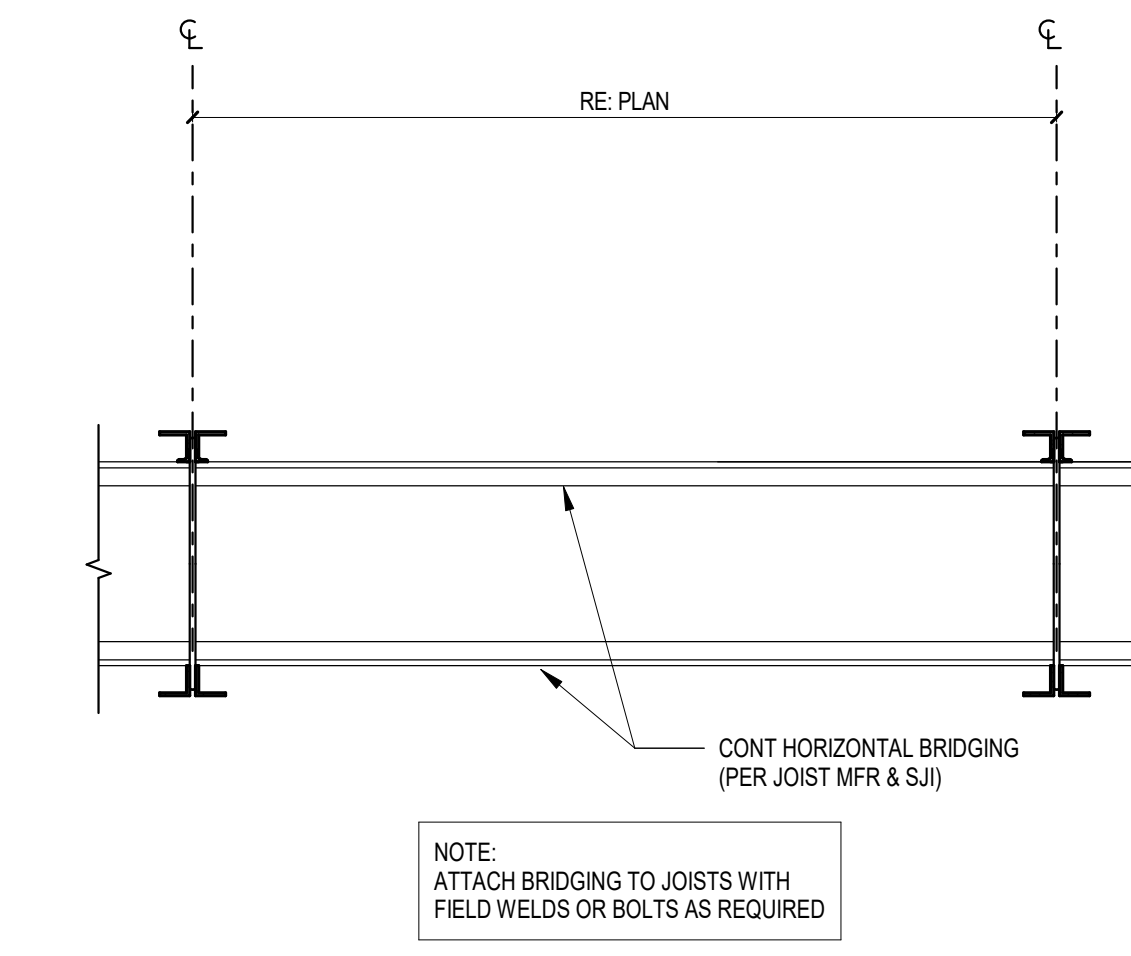
1 BEAM-TO-BEAM CONNECTION



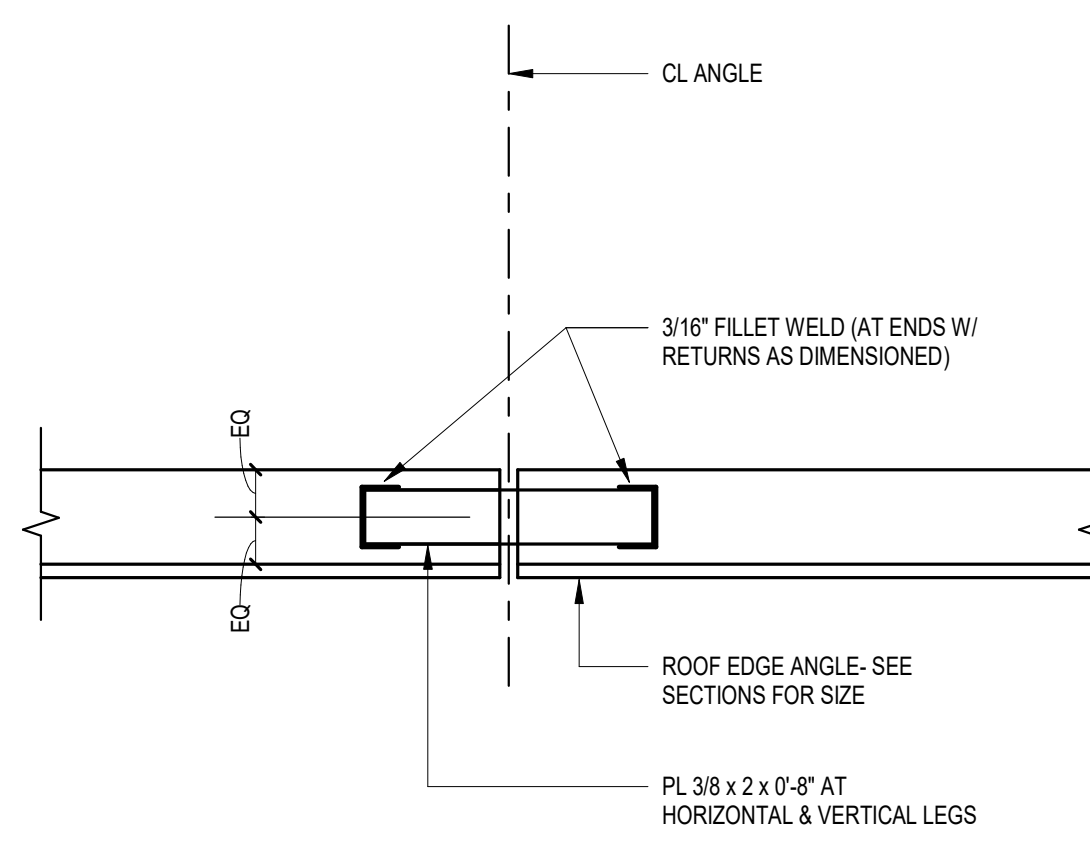
2 JOIST 2 1/2" SEATS



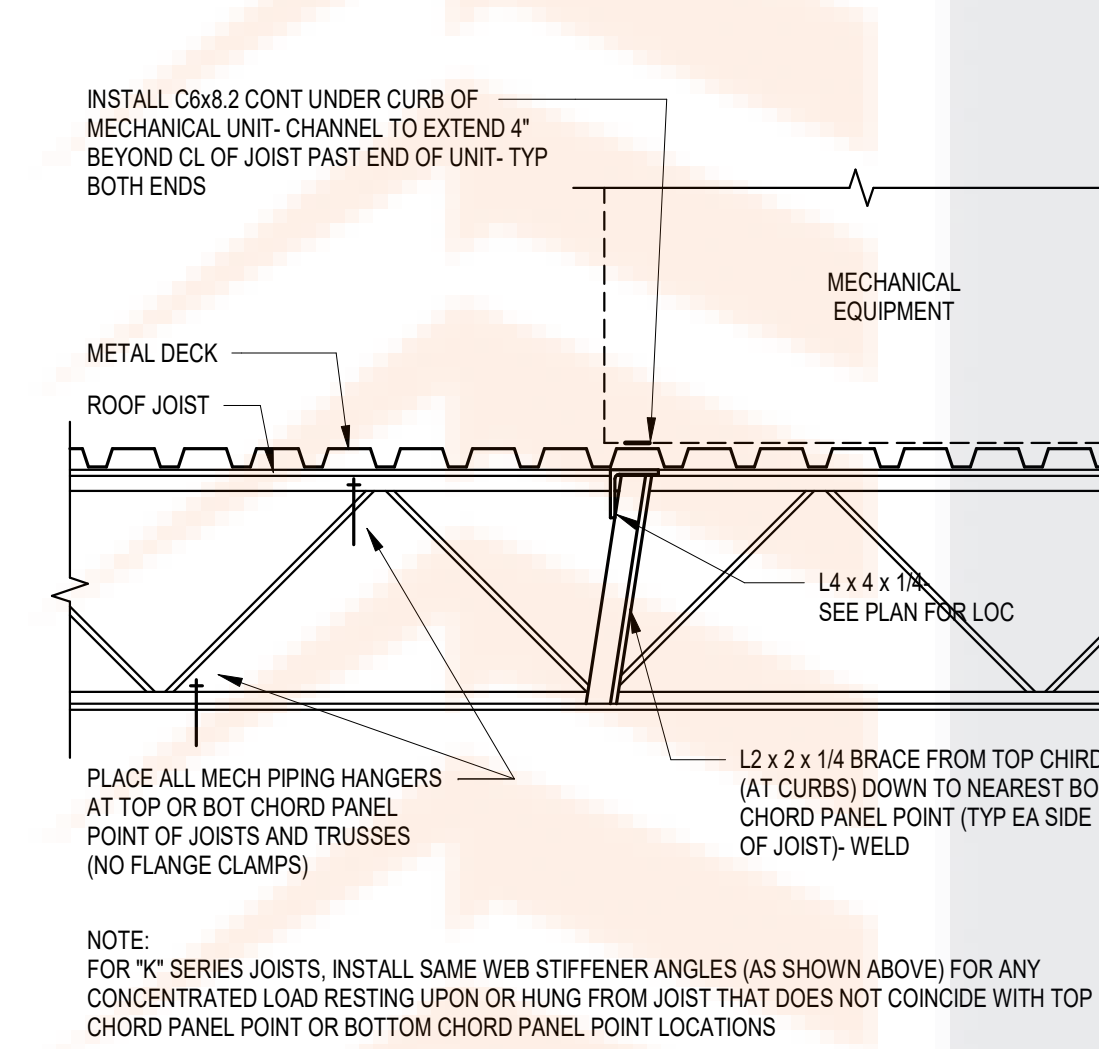
3 JOIST 5" SEATS



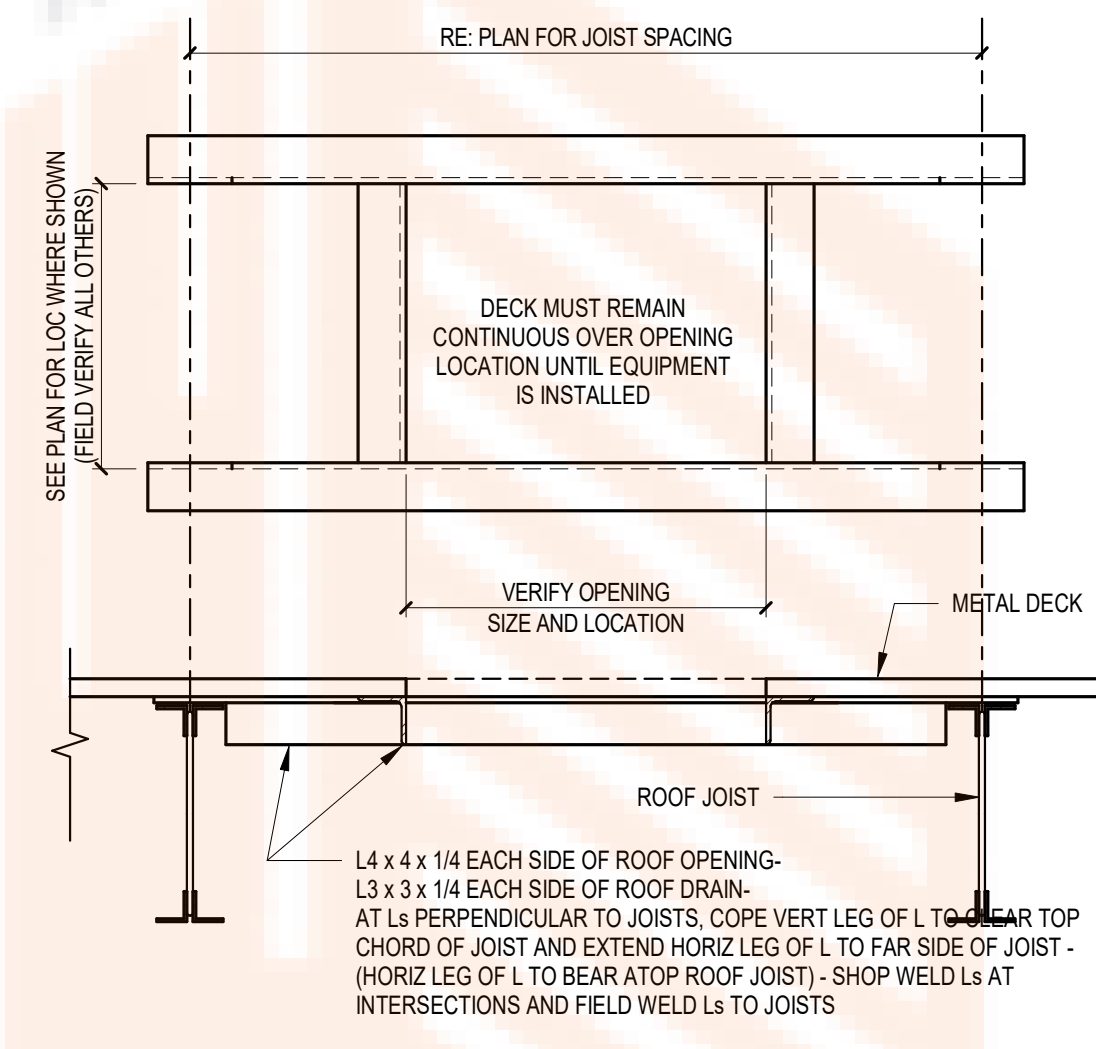
4 JOIST BRIDGING DETAIL



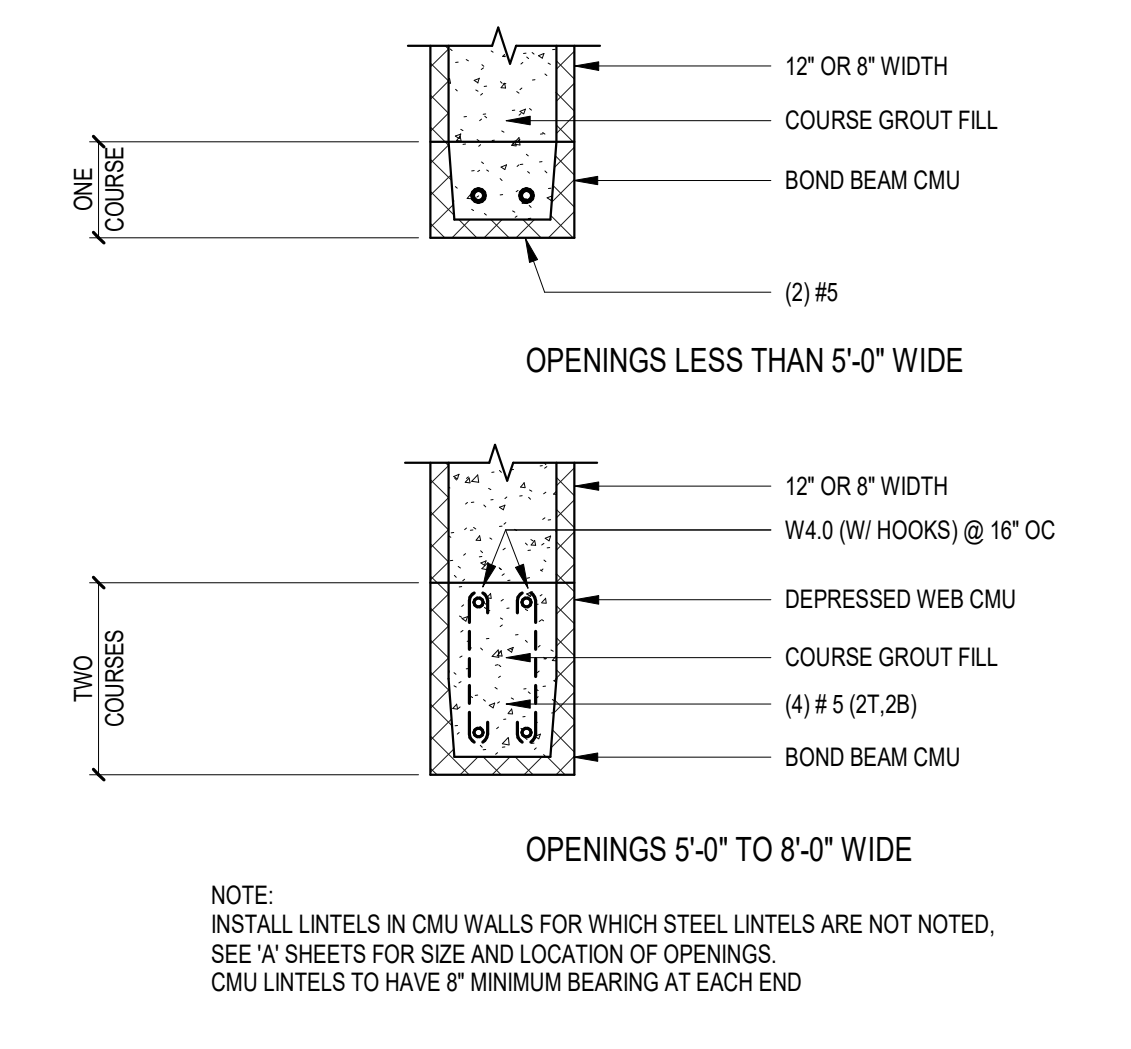
5 ROOF EDGE ANGLE SPLICE DETAIL



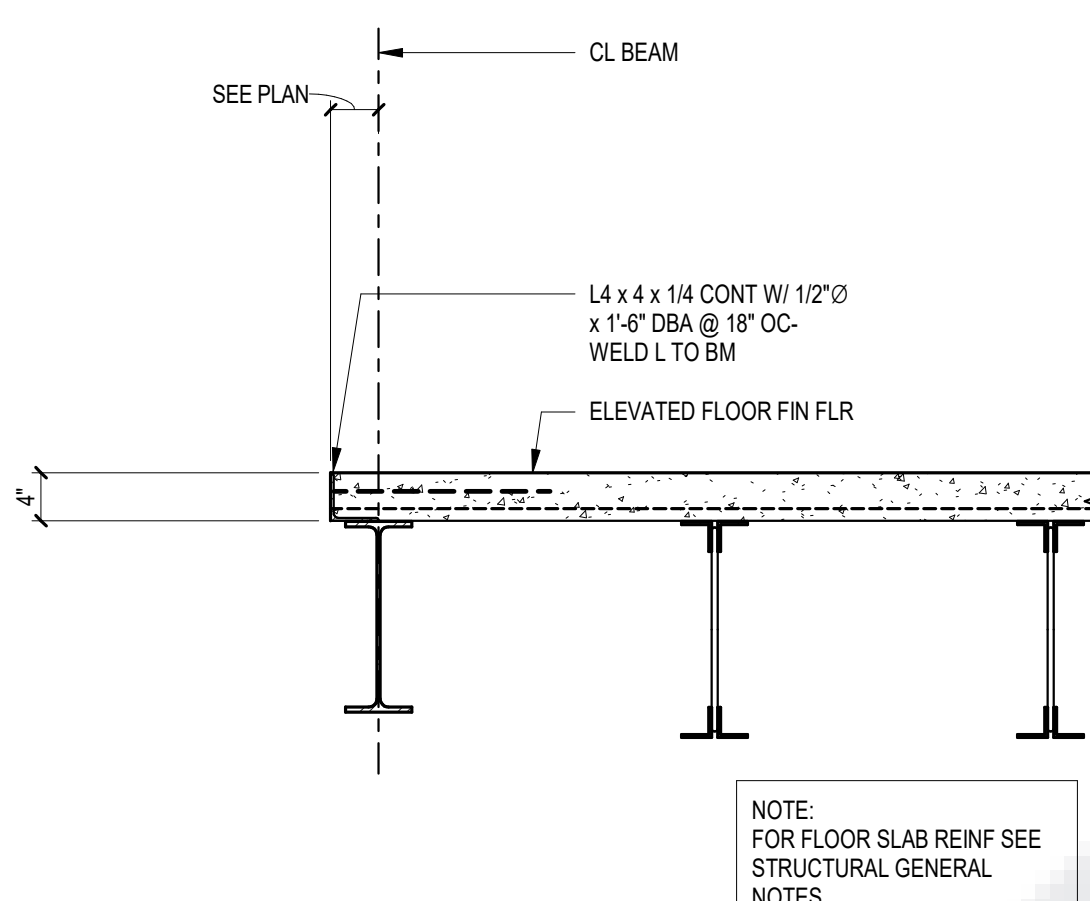
6 MECHANICAL SUPPORT DETAIL



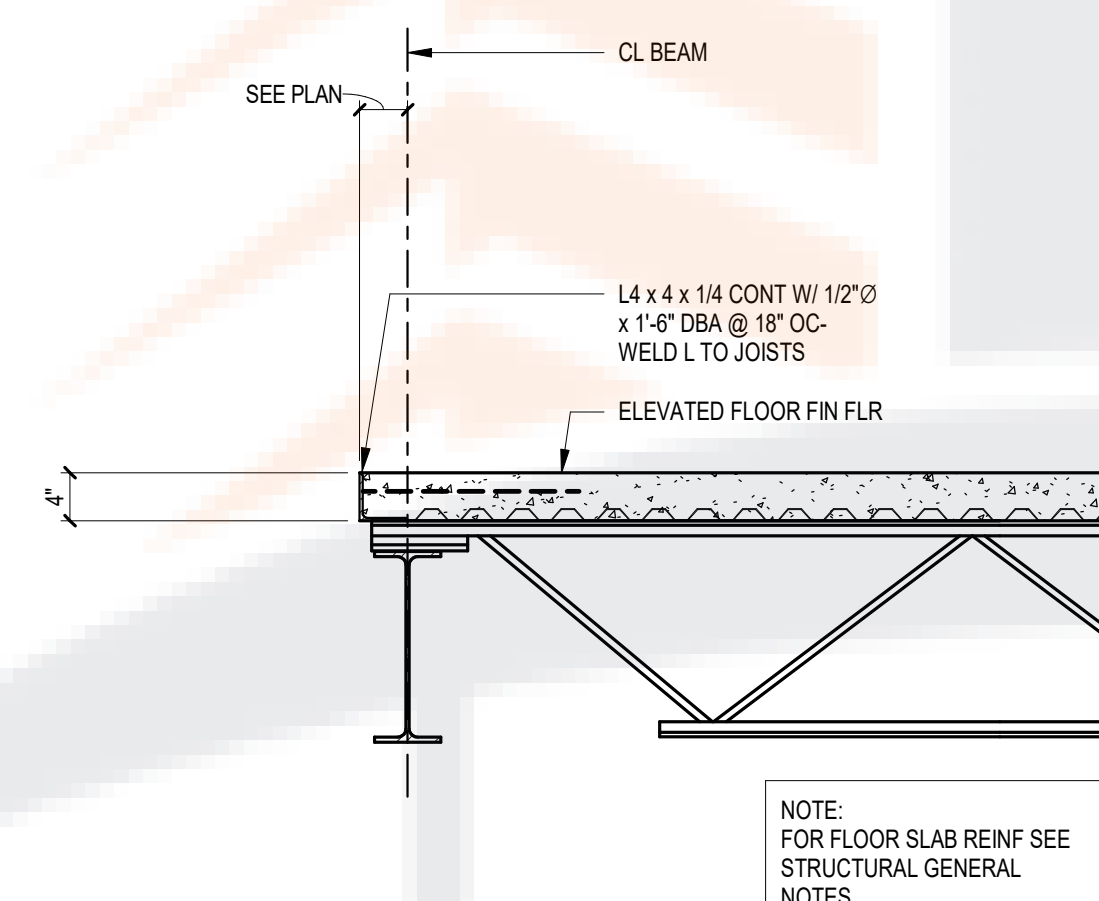
7 ROOF DECK OPENING DETAIL



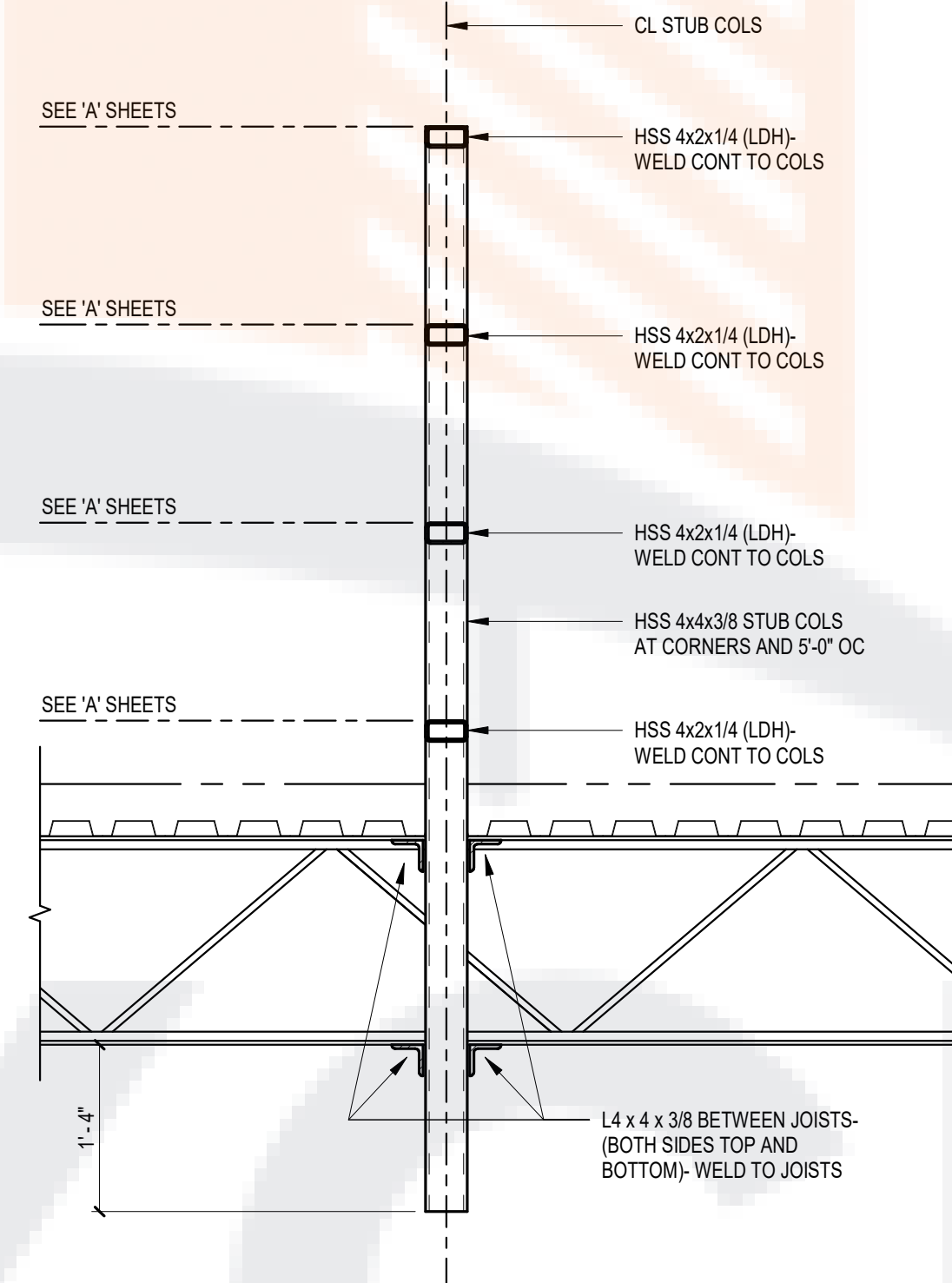
8 CMU INTEL DETAIL



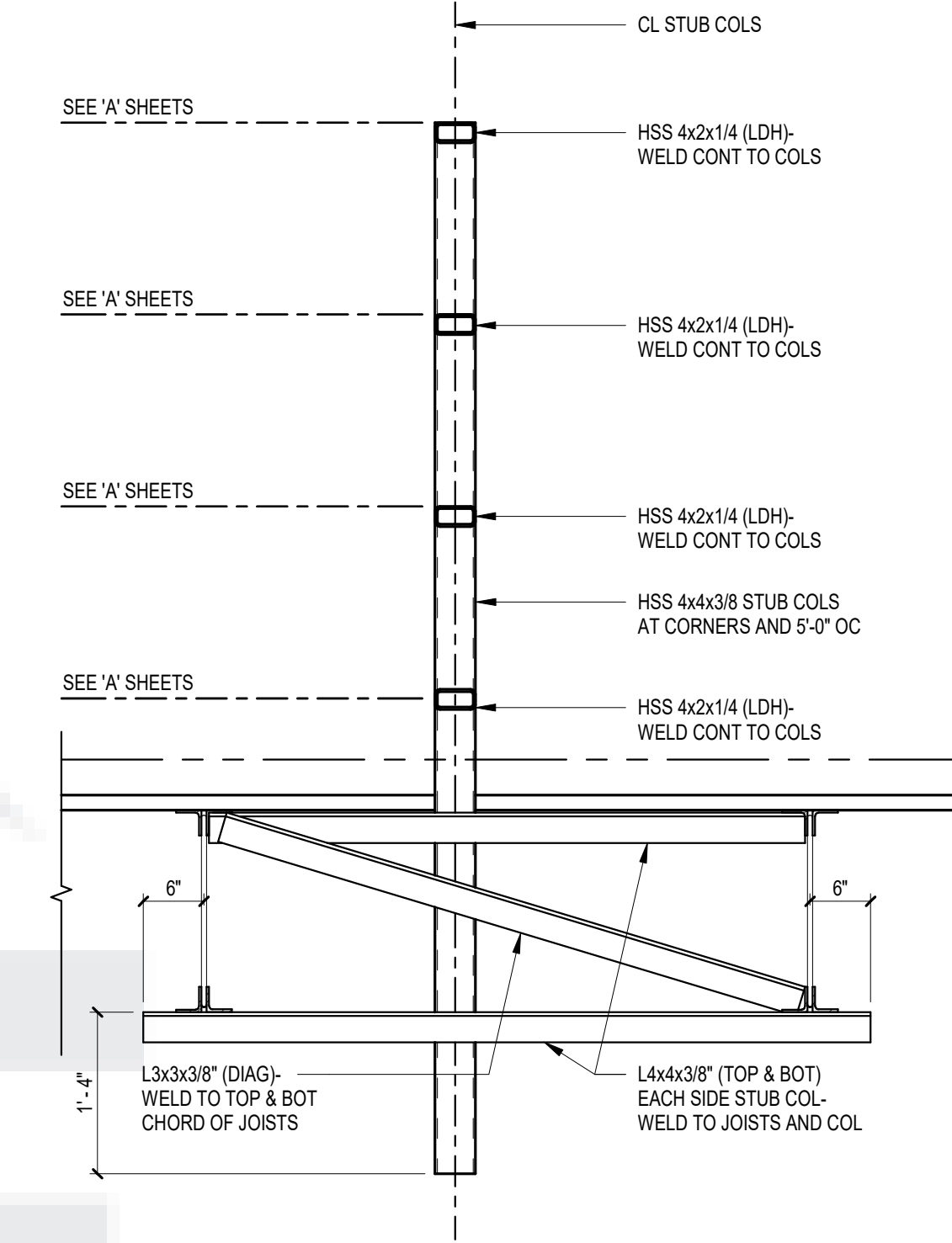
9 NON-COMPOSITE FLOOR DETAIL



10 NON-COMPOSITE FLOOR DETAIL

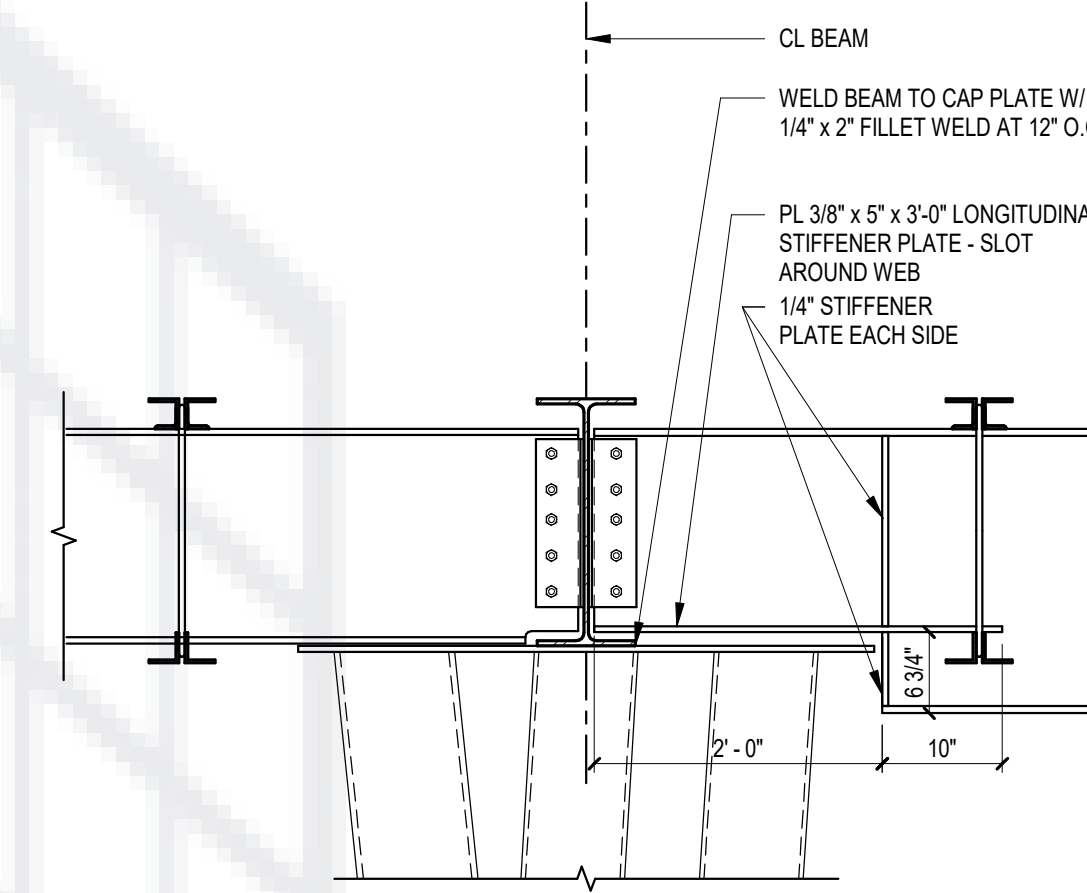
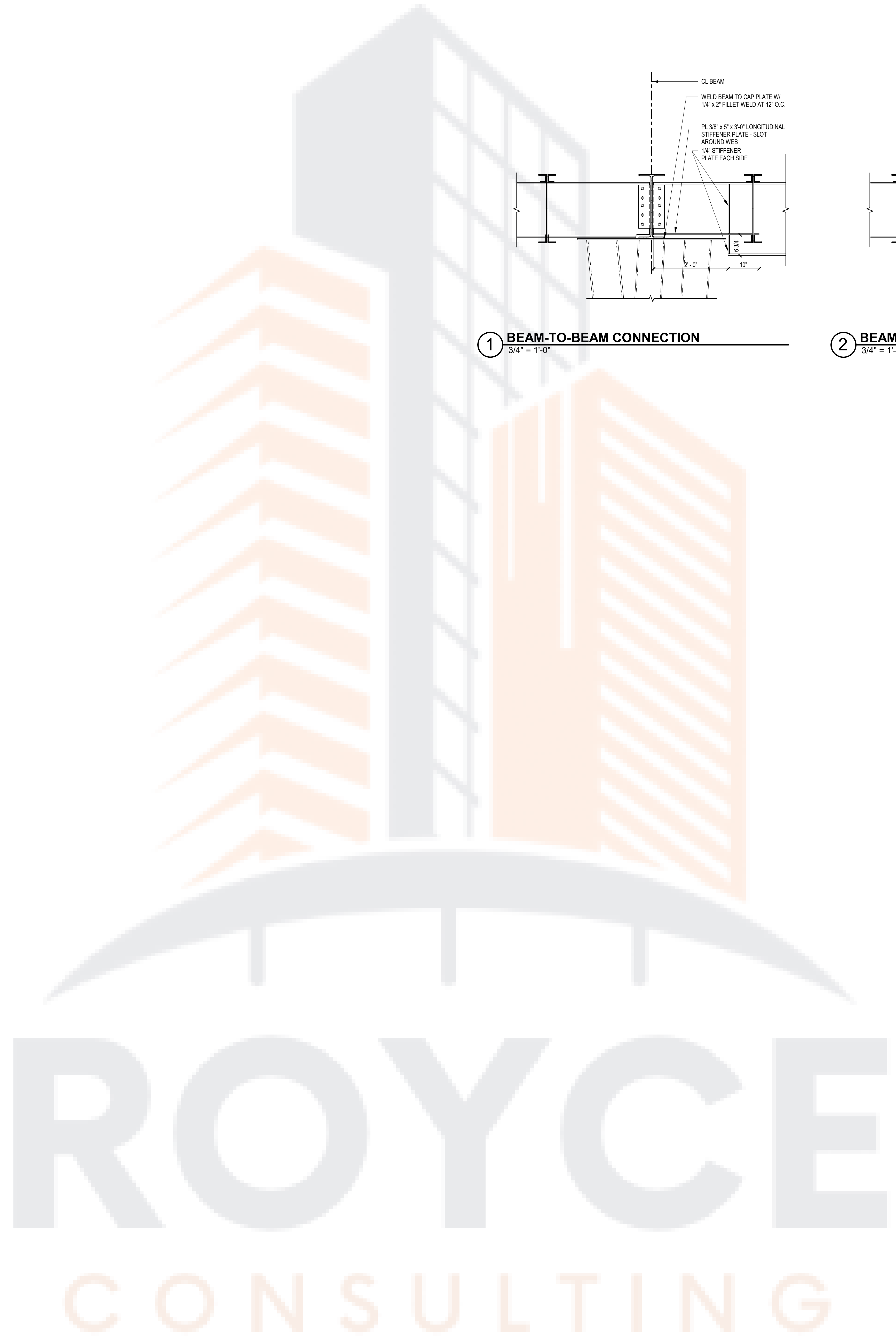


11 SCREENWALL FRAMING SECTION

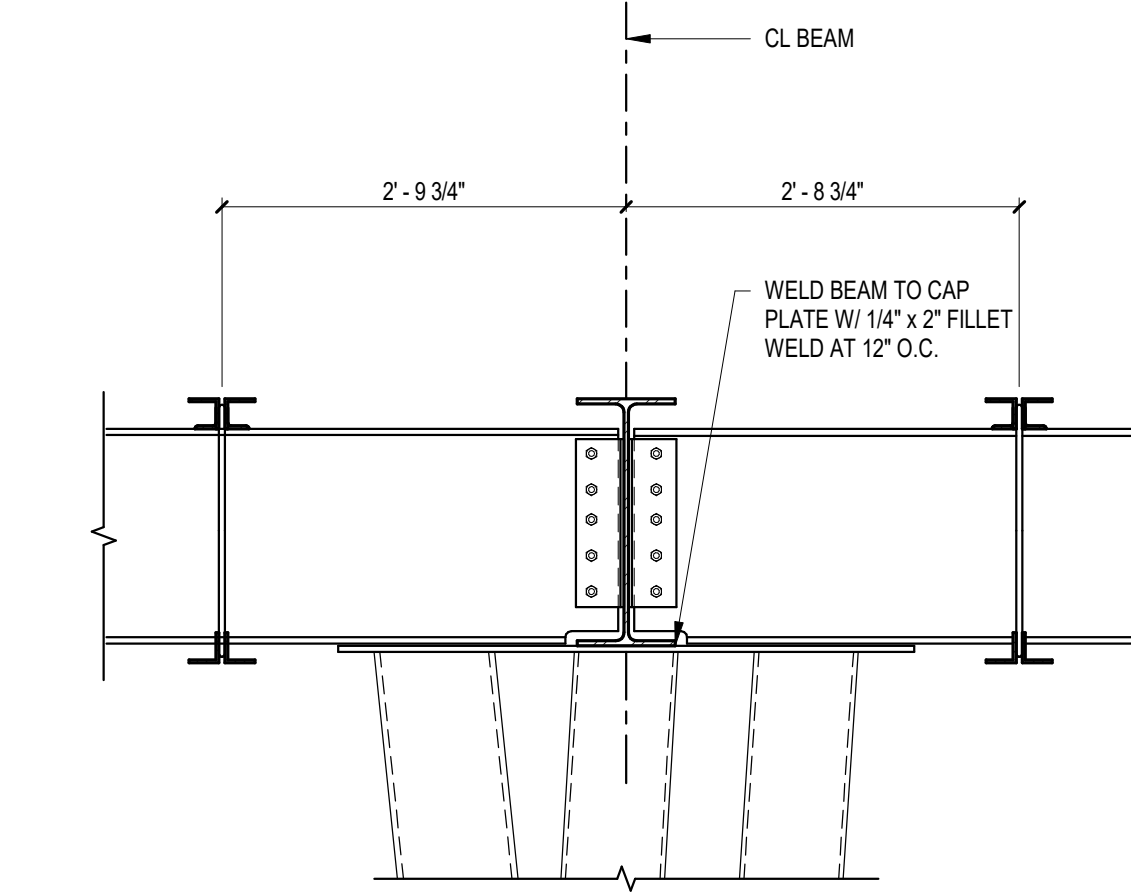


12 SCREENWALL FRAMING SECTION

ROYCE CONSULTING



① BEAM-TO-BEAM CONNECTION
3/4" = 1'-0"



② BEAM-TO-BEAM CONNECTION
3/4" = 1'-0"

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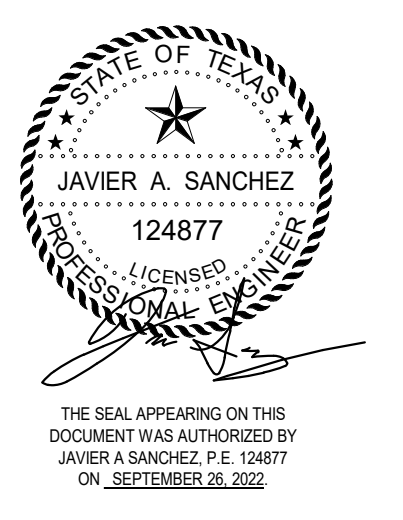
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KATY, TEXAS 77450 F-20241

ISSUE HISTORY:

DATE	DELTA	DESCRIPTION
09.26.2022		ISSUE FOR BID

PROJECT NUMBER: LA2216

ISSUE DATE: 08/29/22

SHEET NAME:

FRAMING DETAILS

SHEET:

S501

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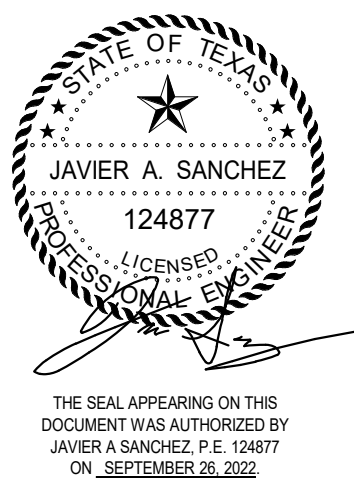
MEP ENGINEER
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 19 SIERRA OAKS DR.
 SUGAR LAND, TEXAS 77479
 832.766.6076

PRECAST CONCRETE SUPPLIER
 MANCO STRUCTURES, LTD
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 SCHERTZ, TEXAS 78154
 210.690.1705

PROJECT:
 NORTHWEST HYUNDAI

PROJECT ADDRESS:
 19120 NORTHWEST FWY
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SEAL/SIGNATURE:



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ISSUE HISTORY:

DATE	DELTA	DESCRIPTION
07.28.2022		ISSUE FOR PERMIT
09.26.2022		ISSUE FOR BID

PROJECT NUMBER: LA2216

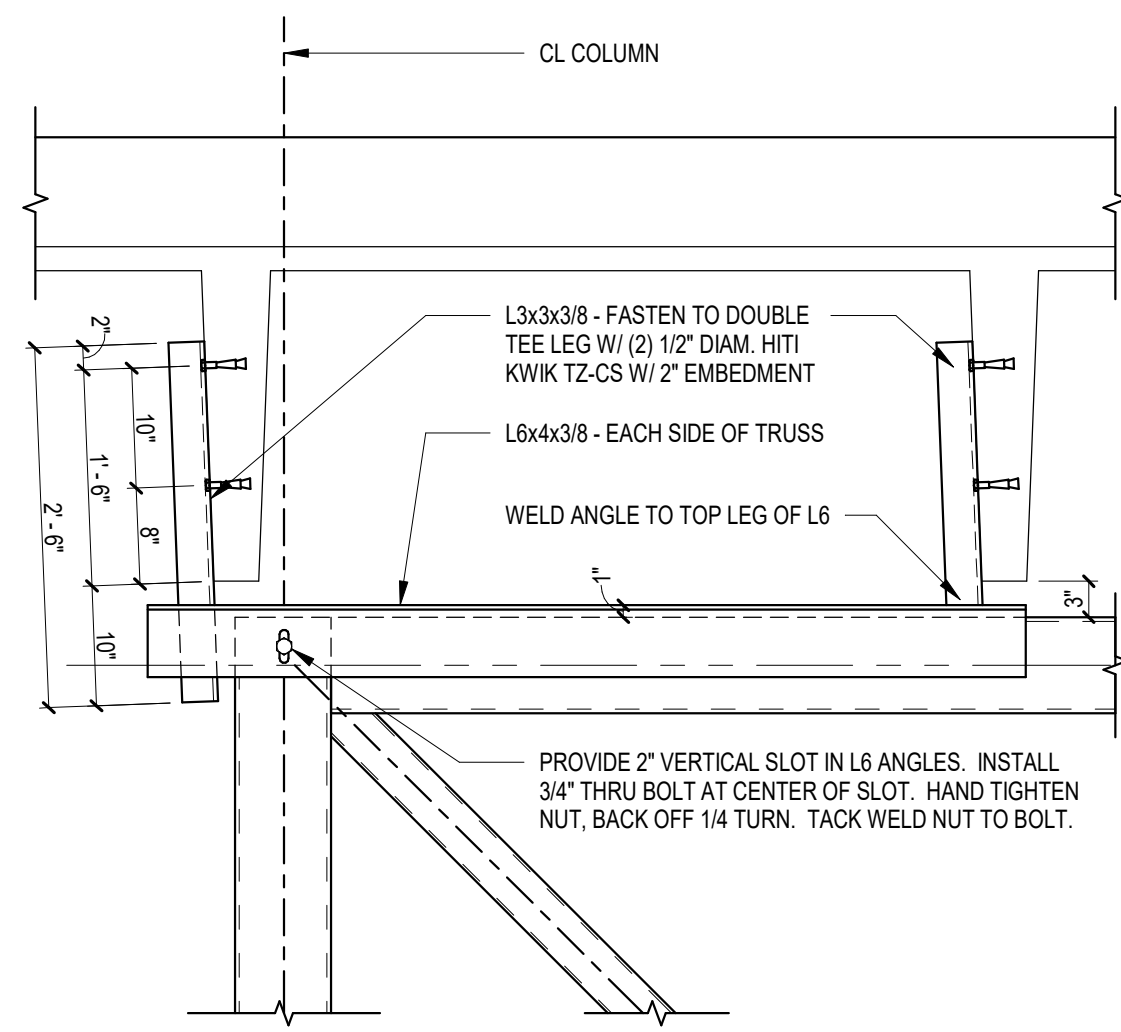
ISSUE DATE: 07/26/22

SHEET NAME:

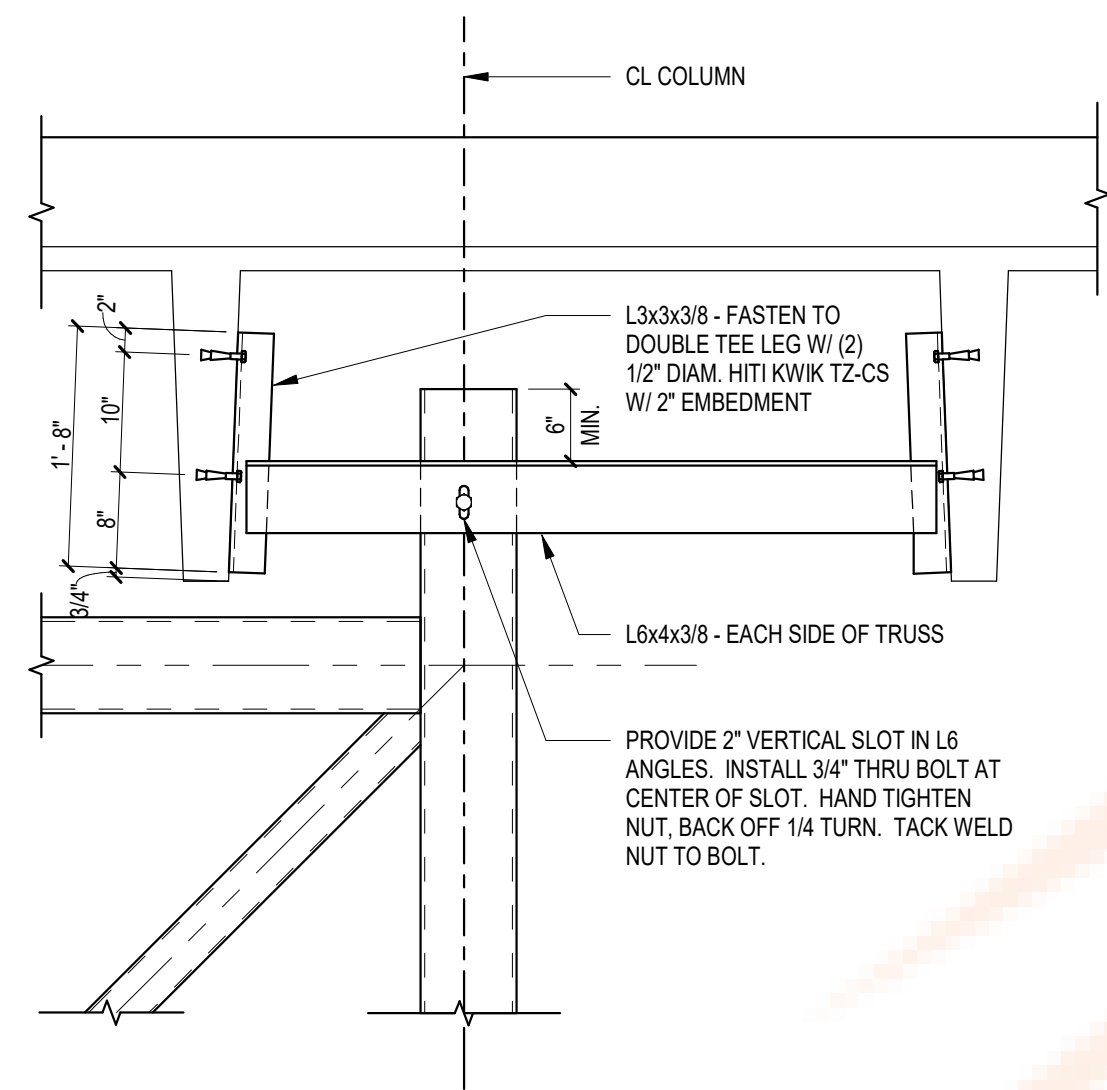
FRAME ELEVATIONS

SHEET:

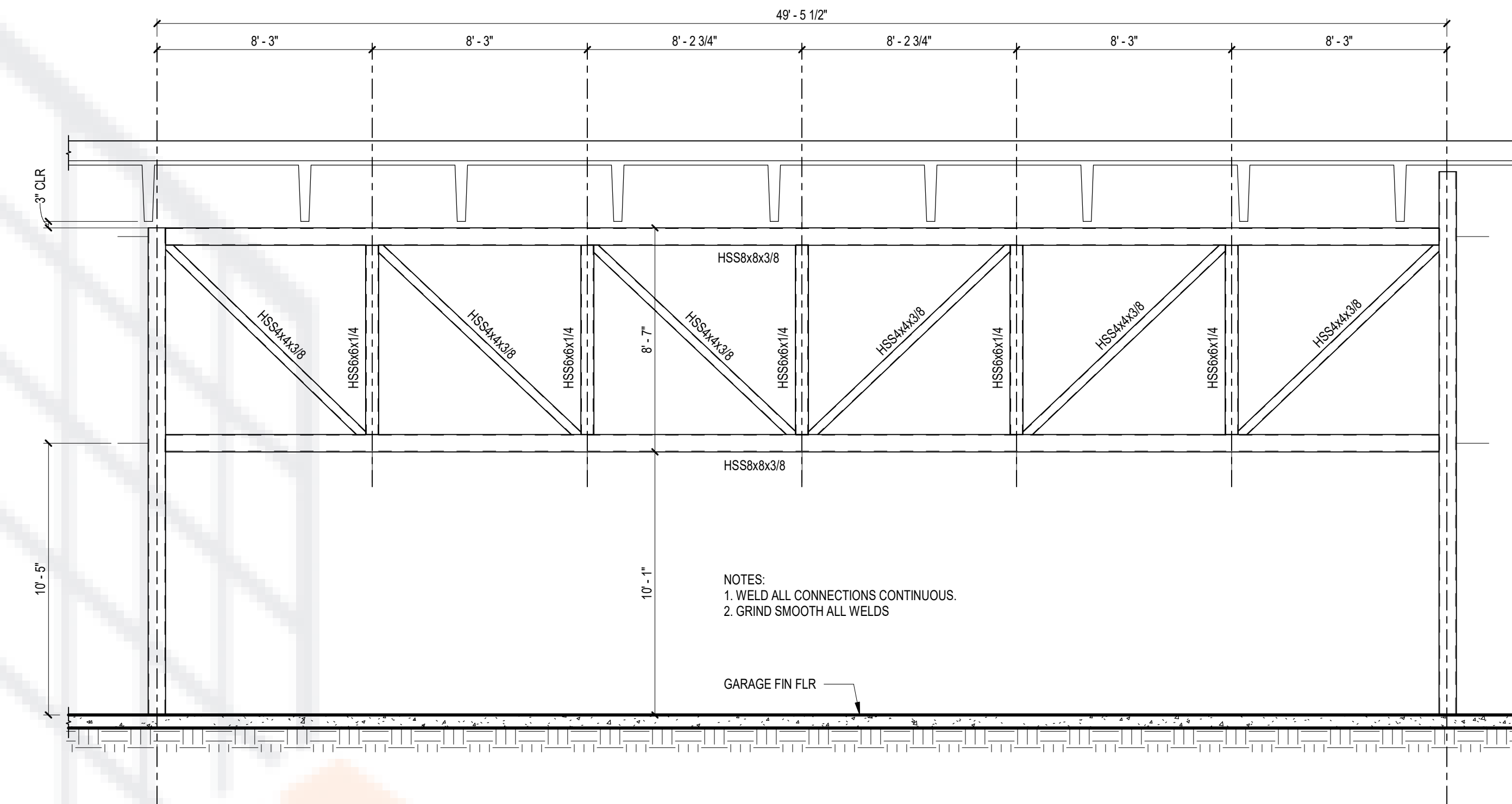
S502



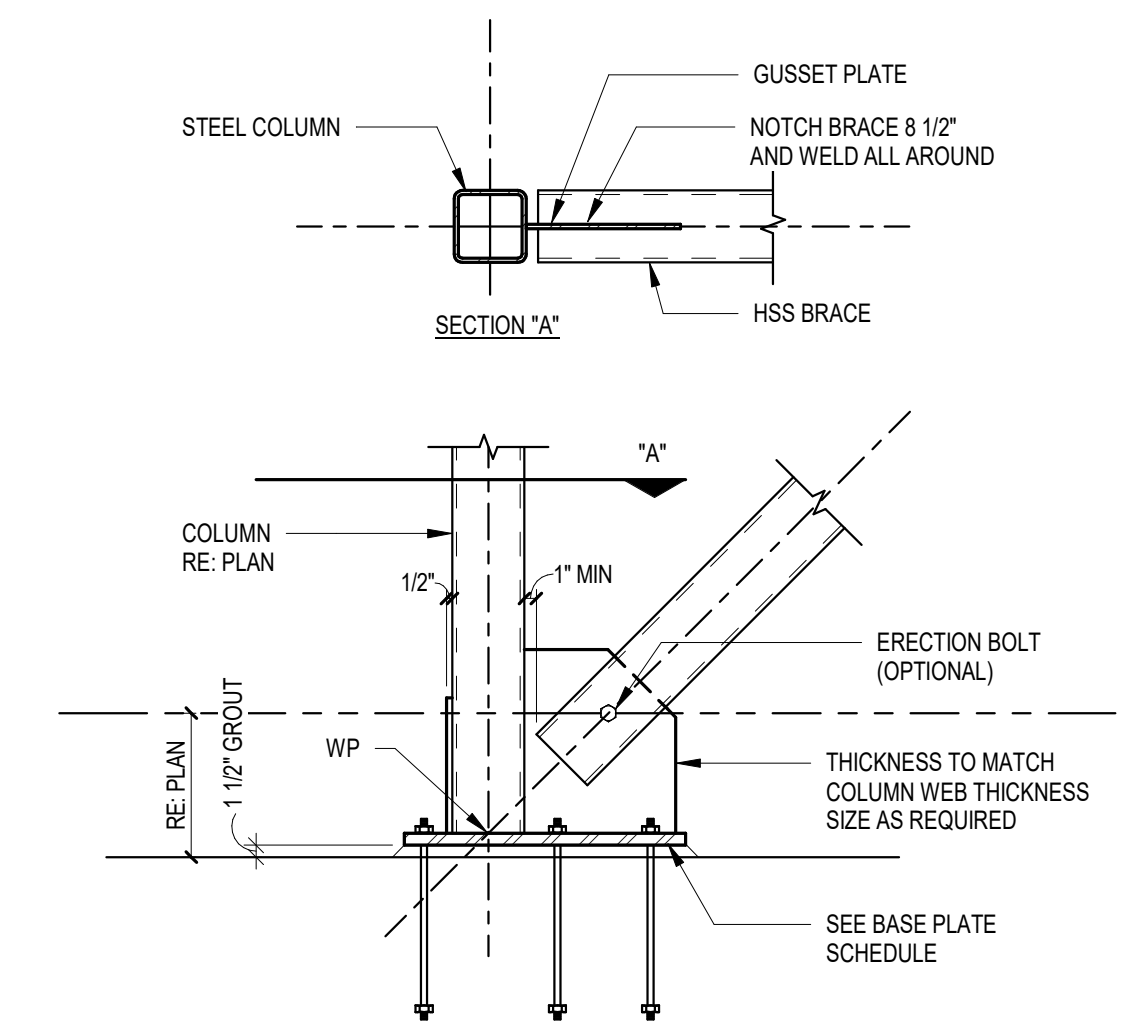
5 TRUSS COLUMN CONNECTION DETAIL



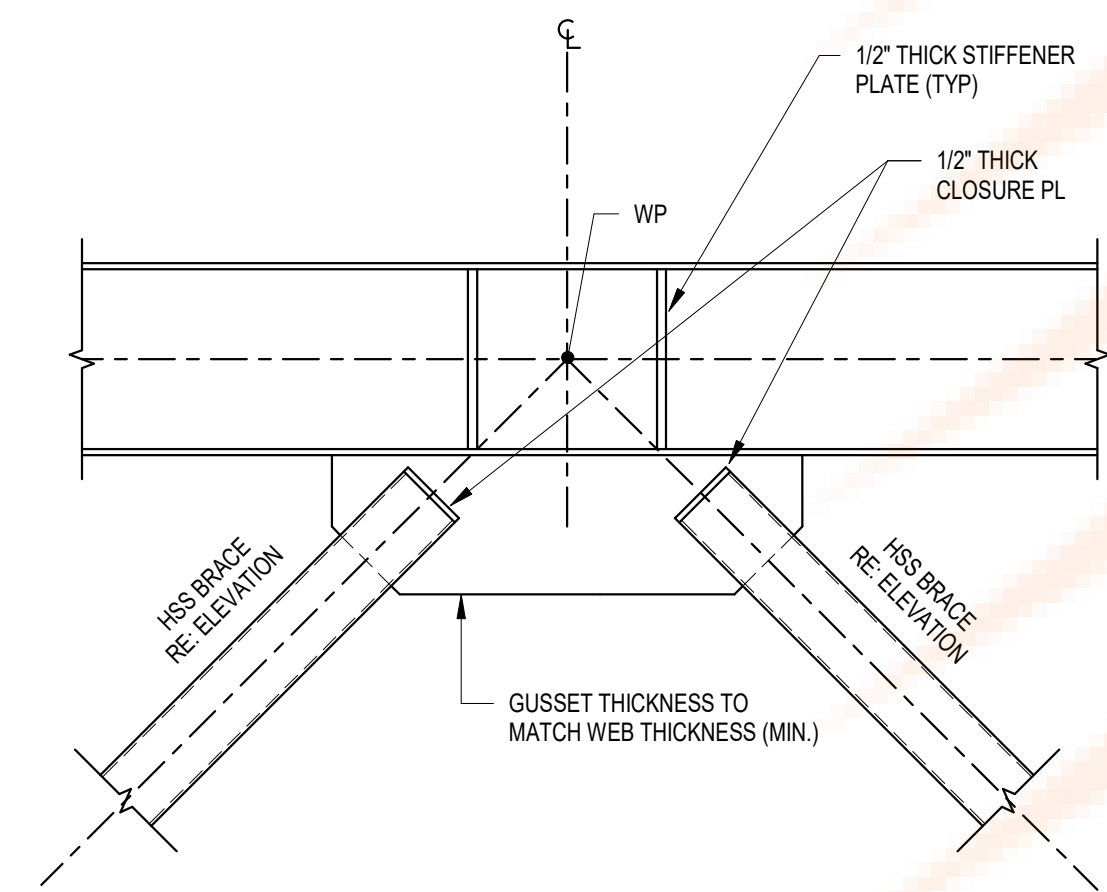
6 TRUSS COLUMN CONNECTION DETAIL



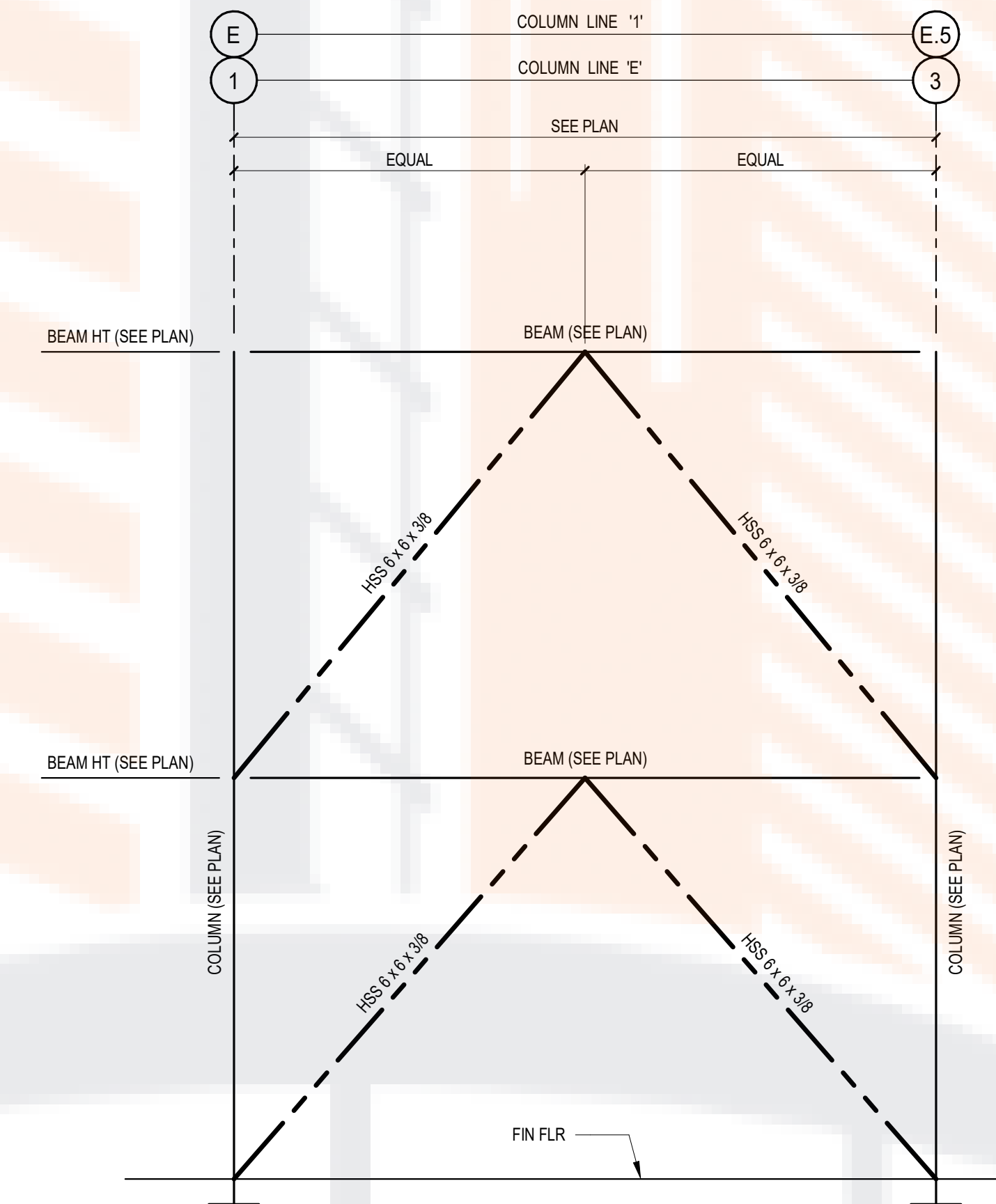
1 TRUSS 1 FRAME ELEVATION
 1/4" = 1'-0"



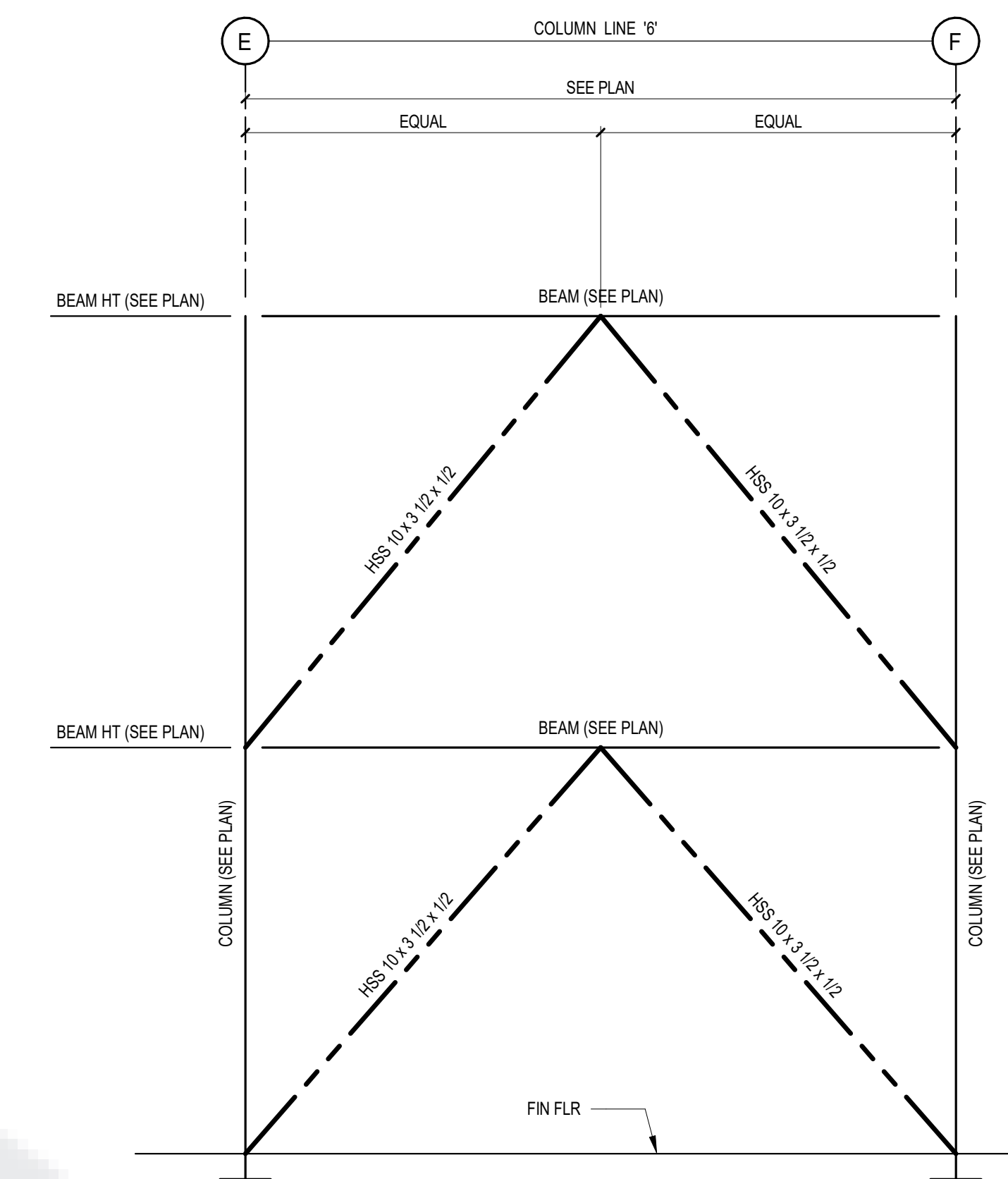
7 BRACE CONNECTION DETAIL



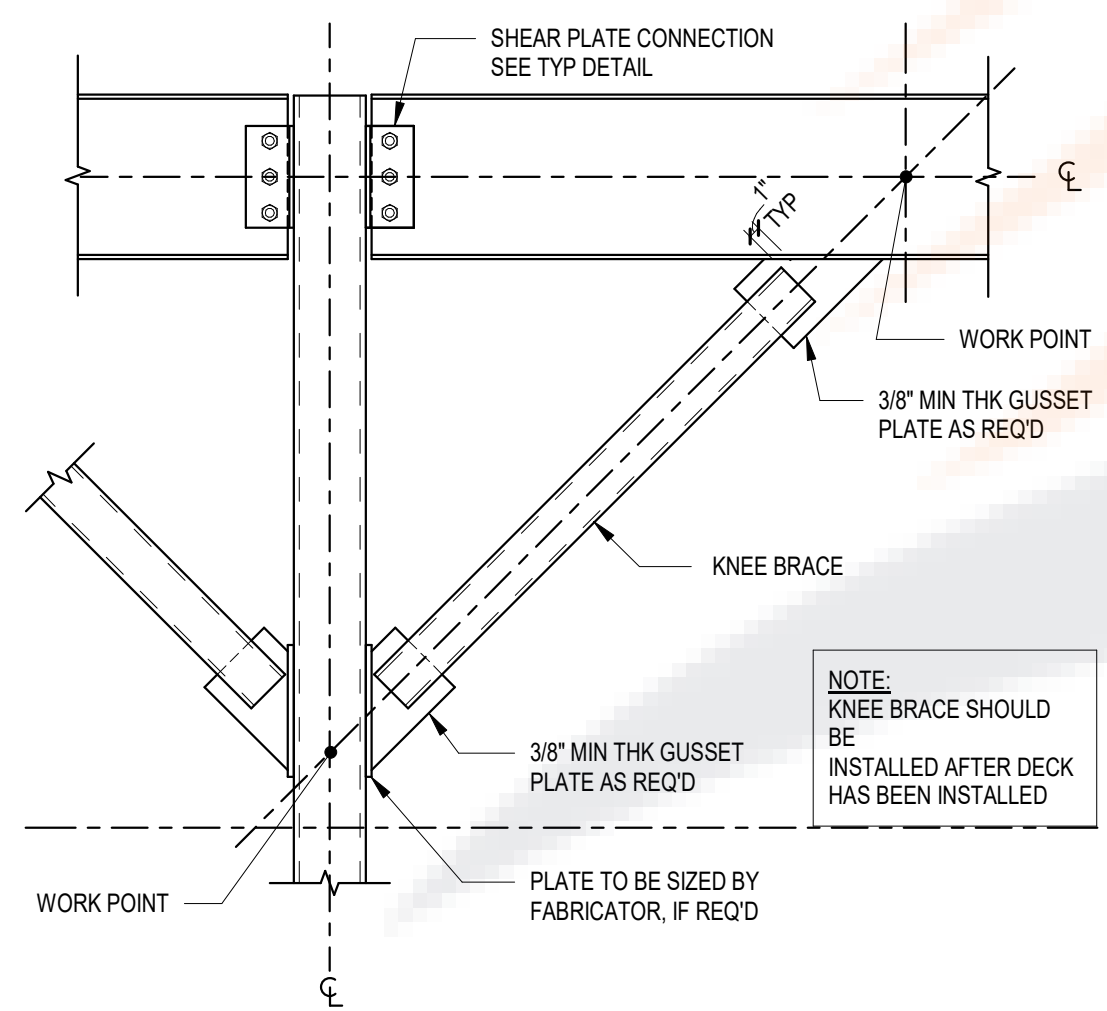
8 BRACE CONNECTION DETAIL



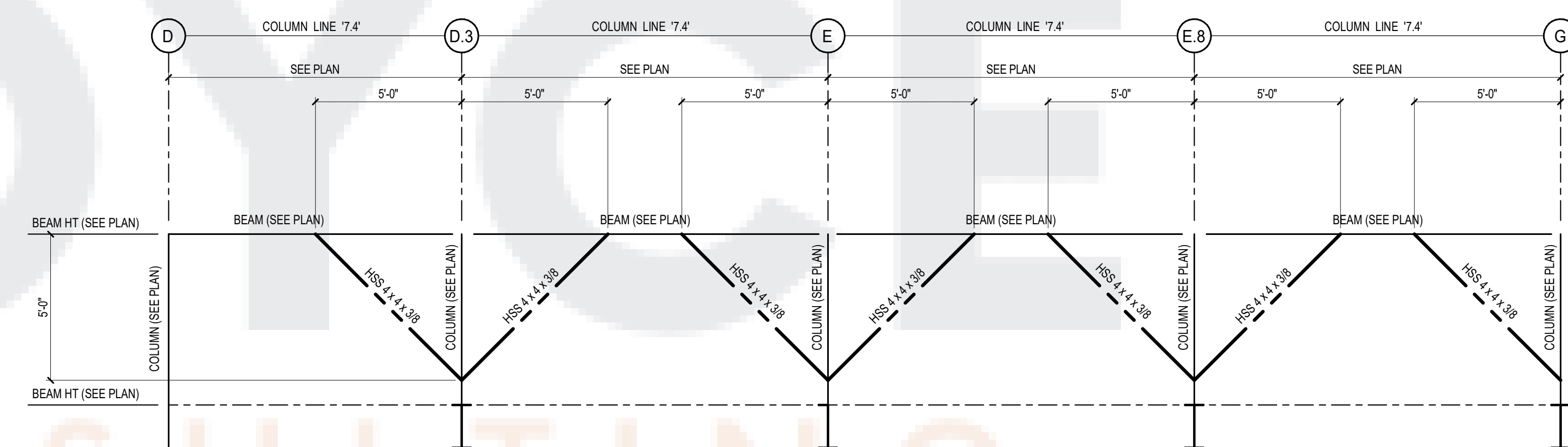
2 BRACED FRAME ELEVATION



3 BRACED FRAME ELEVATION



9 BRACE CONNECTION DETAIL



4 BRACED FRAME ELEVATION

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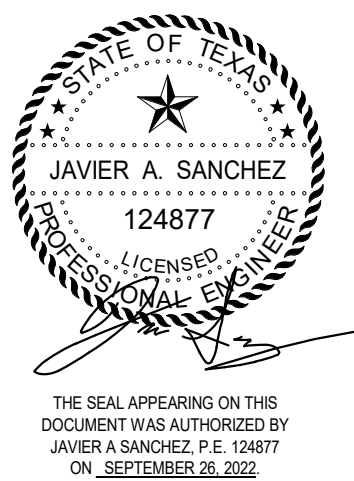
MEP ENGINEER
 SPECTRUM DESIGN ENGINEERS
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 832.766.6076

PRECAST CONCRETE SUPPLIER
 MANCO STRUCTURES, LTD
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 SCHERTZ, TEXAS 78154
 210.690.1705

PROJECT:
 NORTHWEST HYUNDAI

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 19120 NORTHWEST FWY
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SEAL/SIGNATURE:



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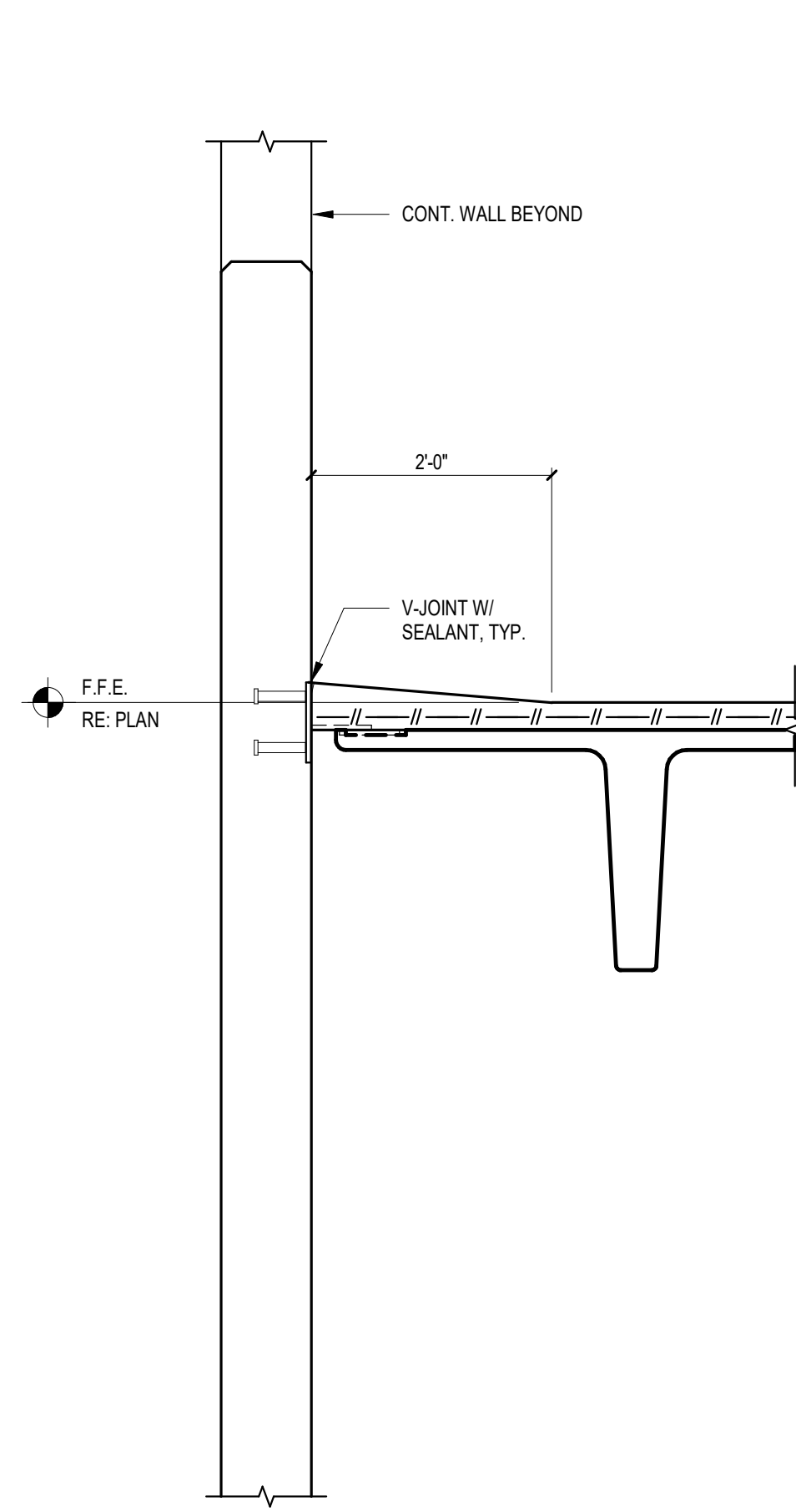
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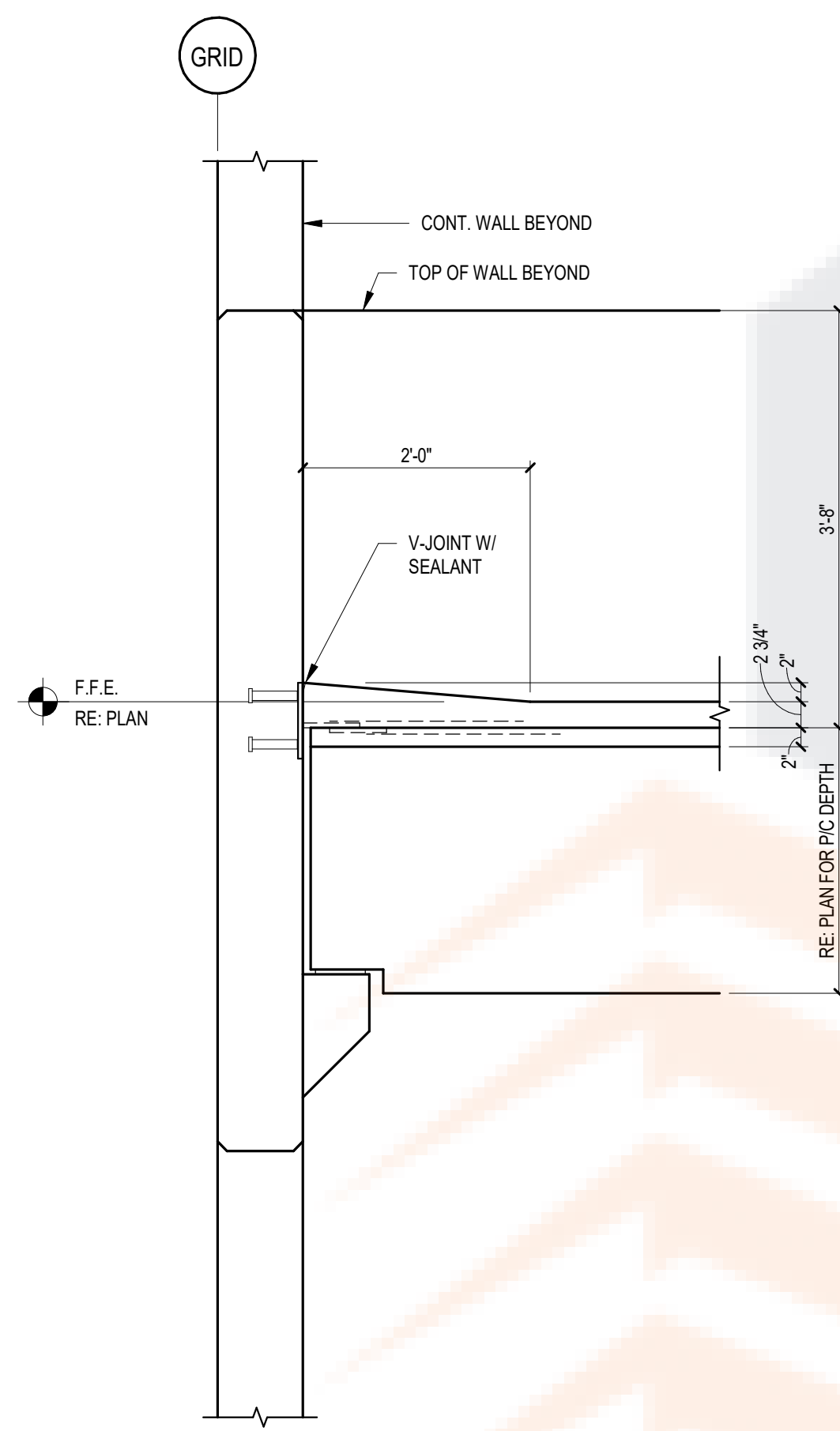
PRECAST DETAILS

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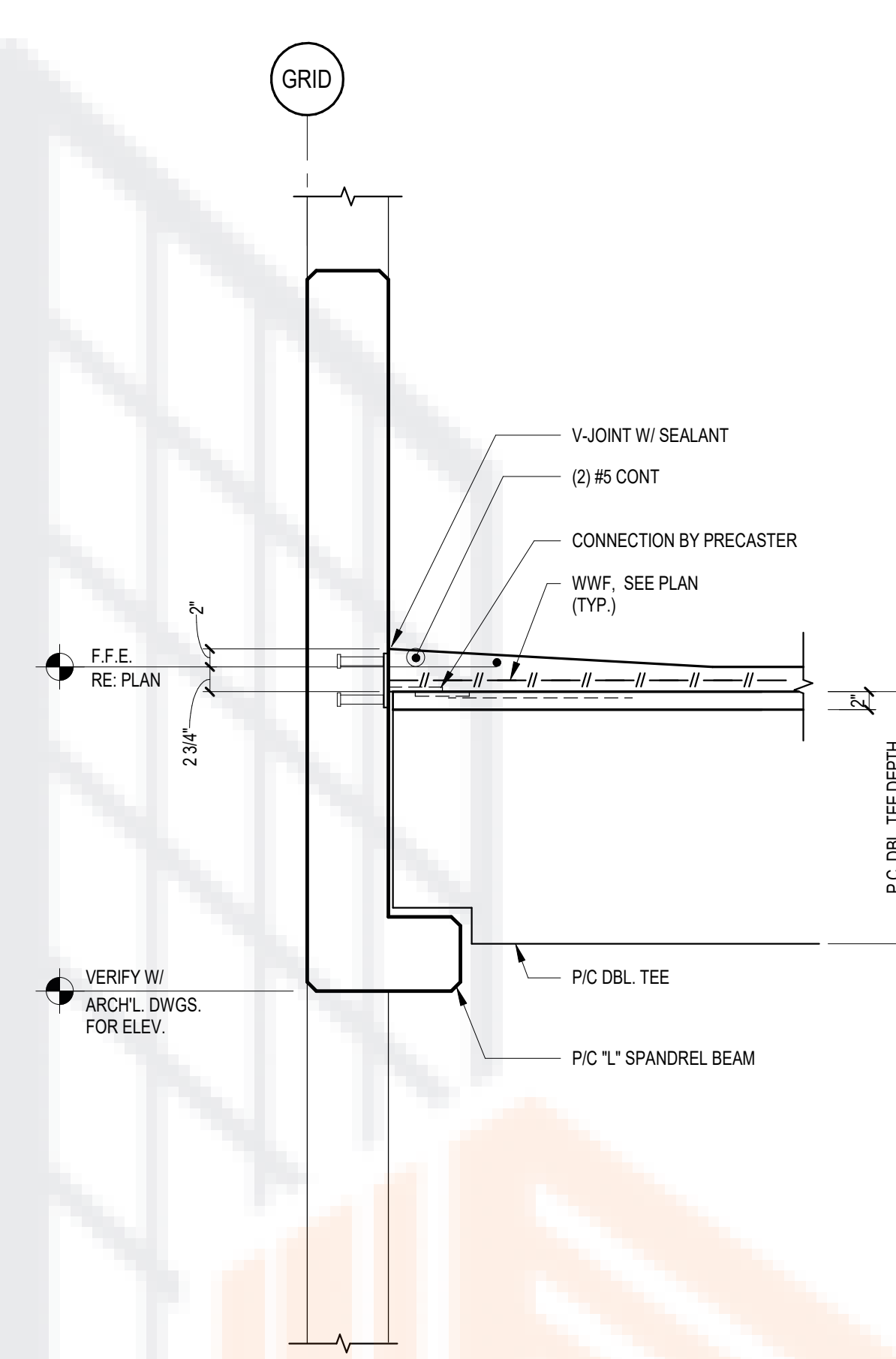
S503



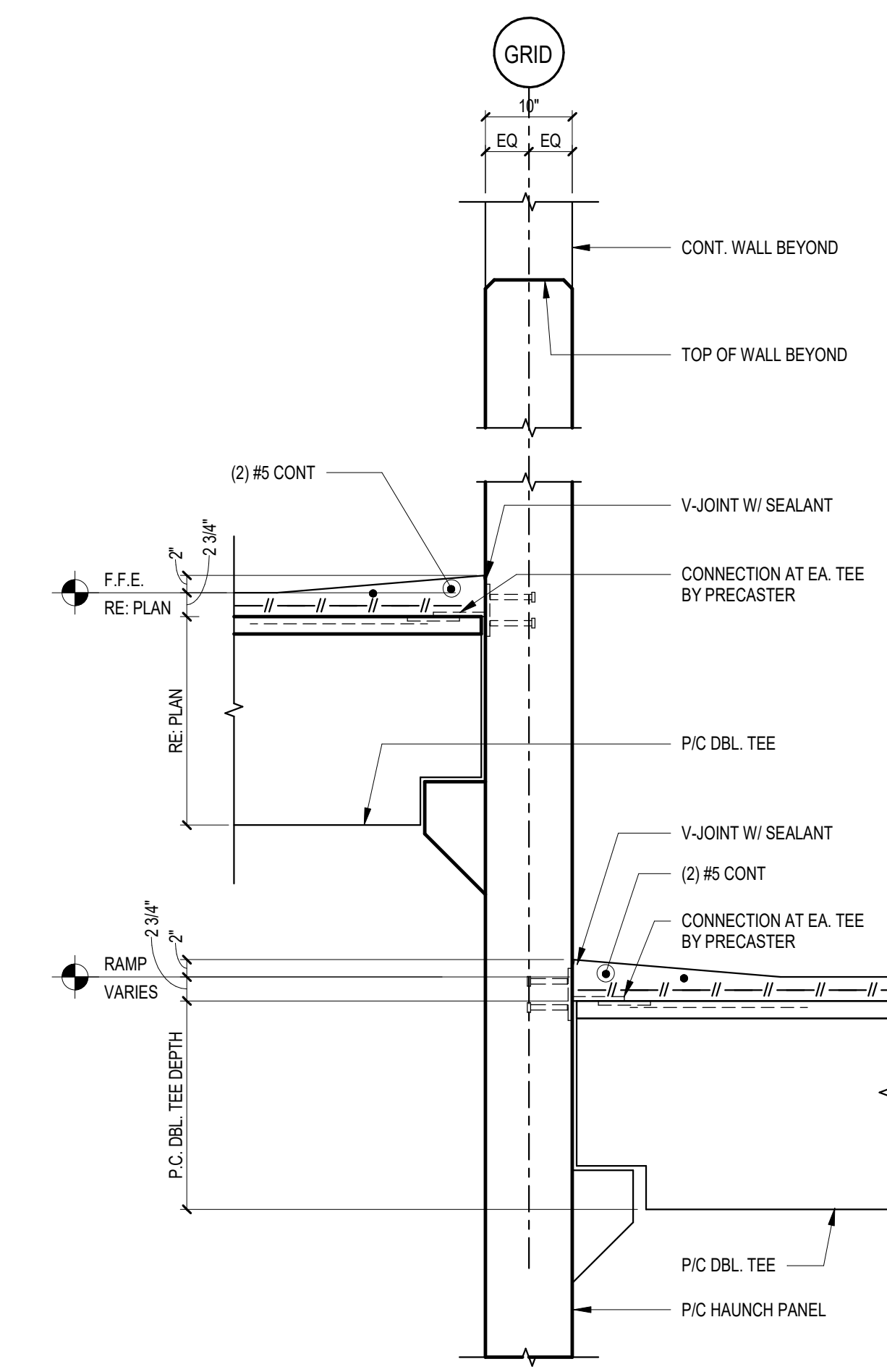
1 SECTION
 3/4" = 1'-0"



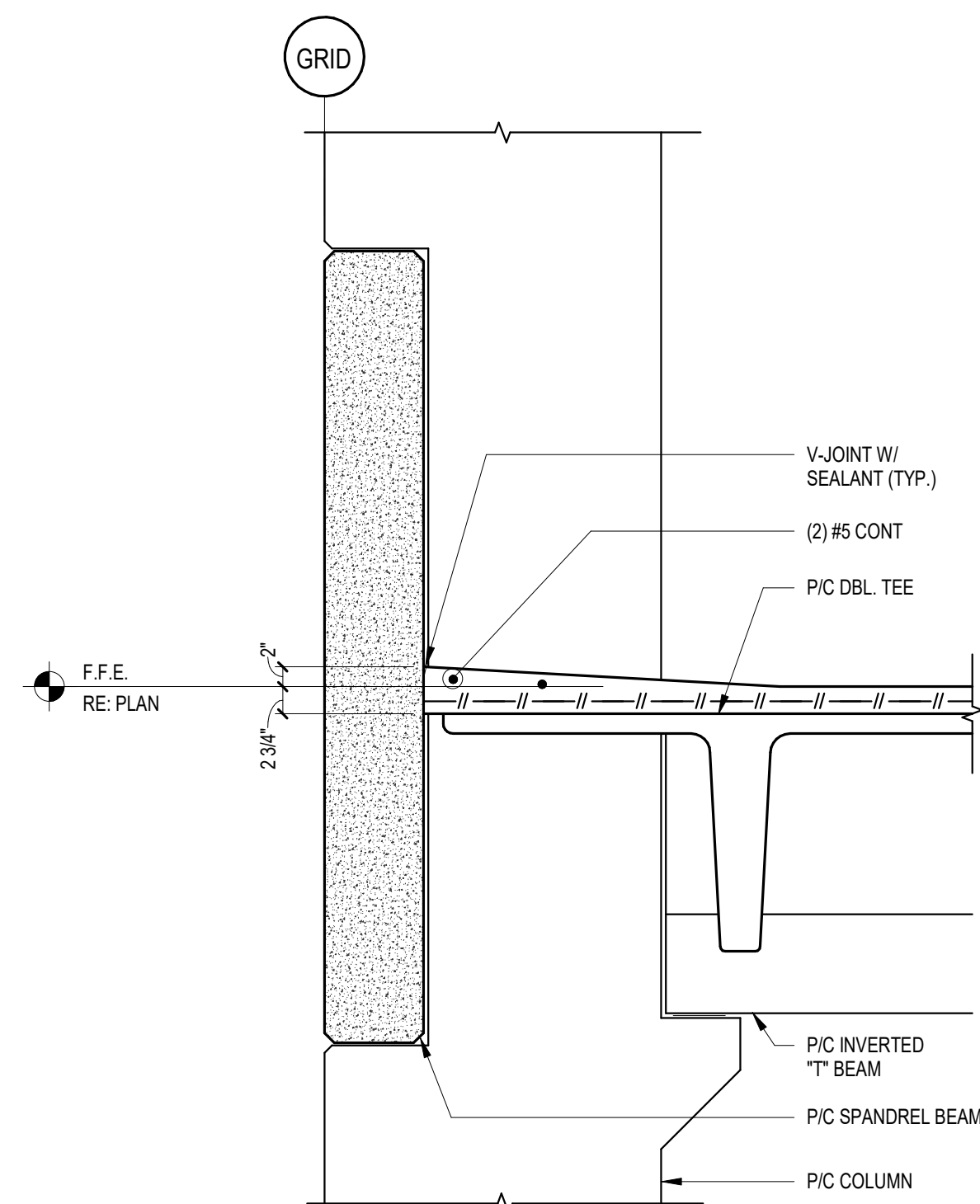
2 EXTERIOR SECTION
 3/4" = 1'-0"



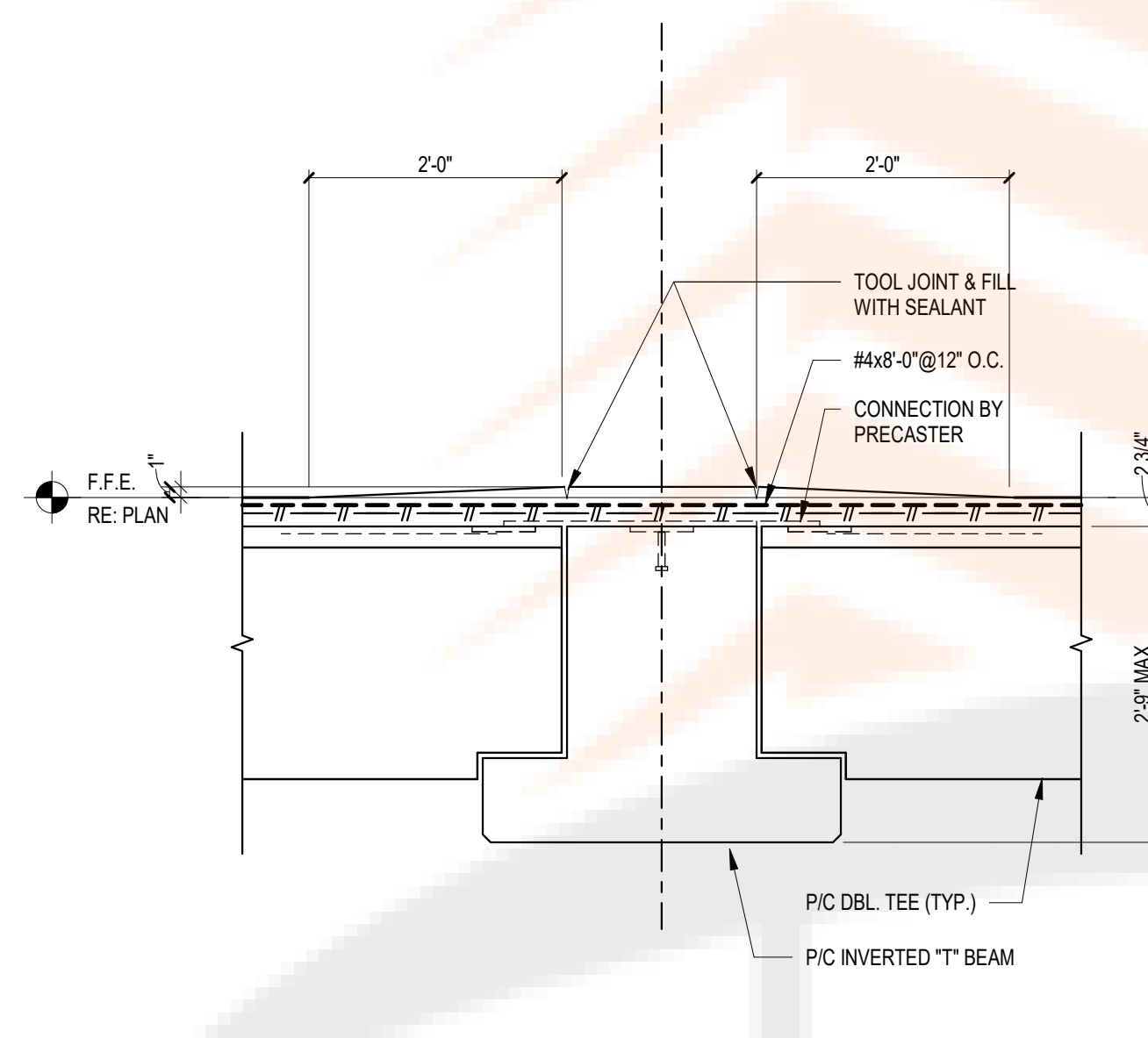
3 EXTERIOR SECTION AT TYPICAL LEVELS
 3/4" = 1'-0"



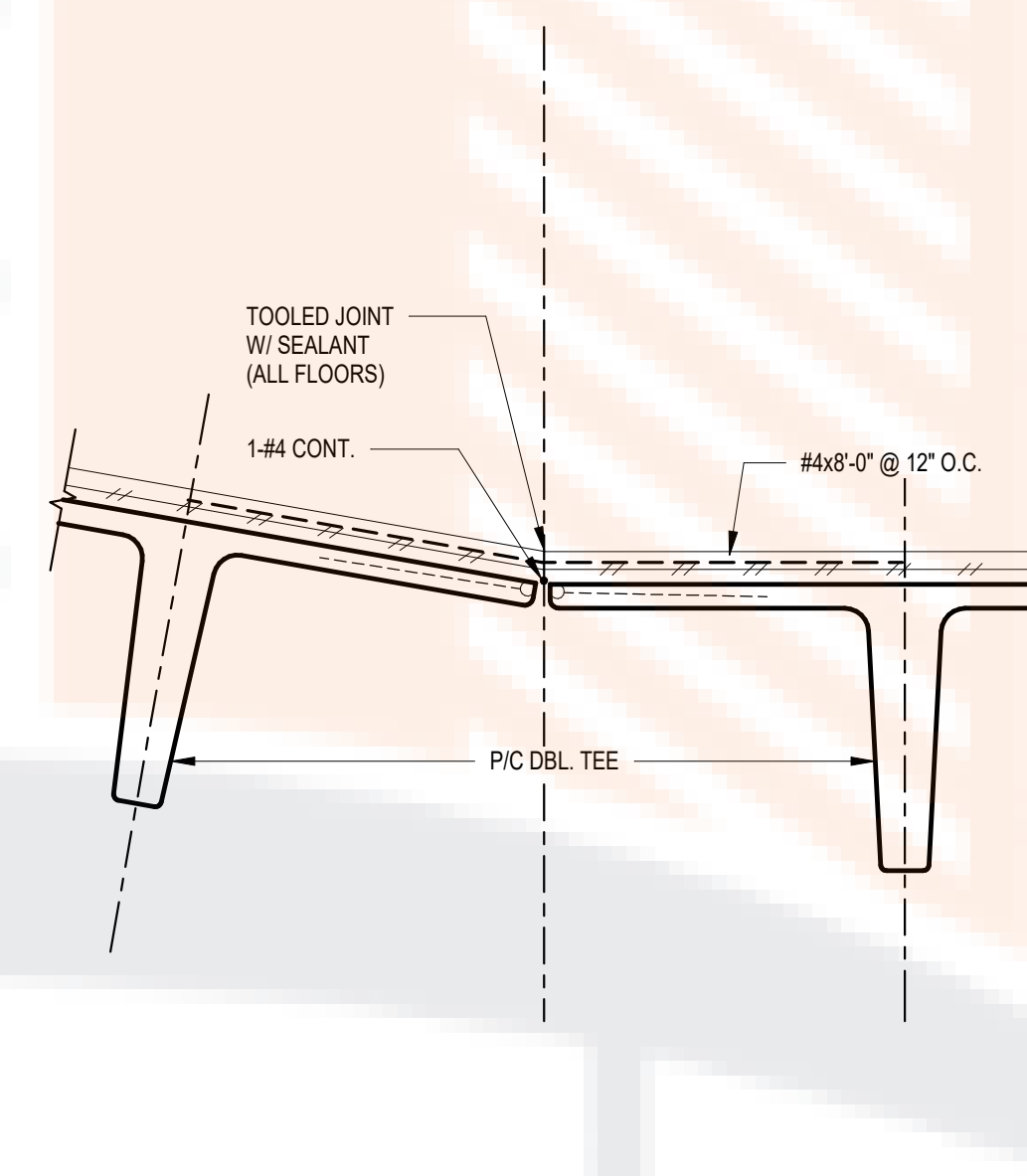
4 INTERIOR WALL COLUMN SECTION
 3/4" = 1'-0"



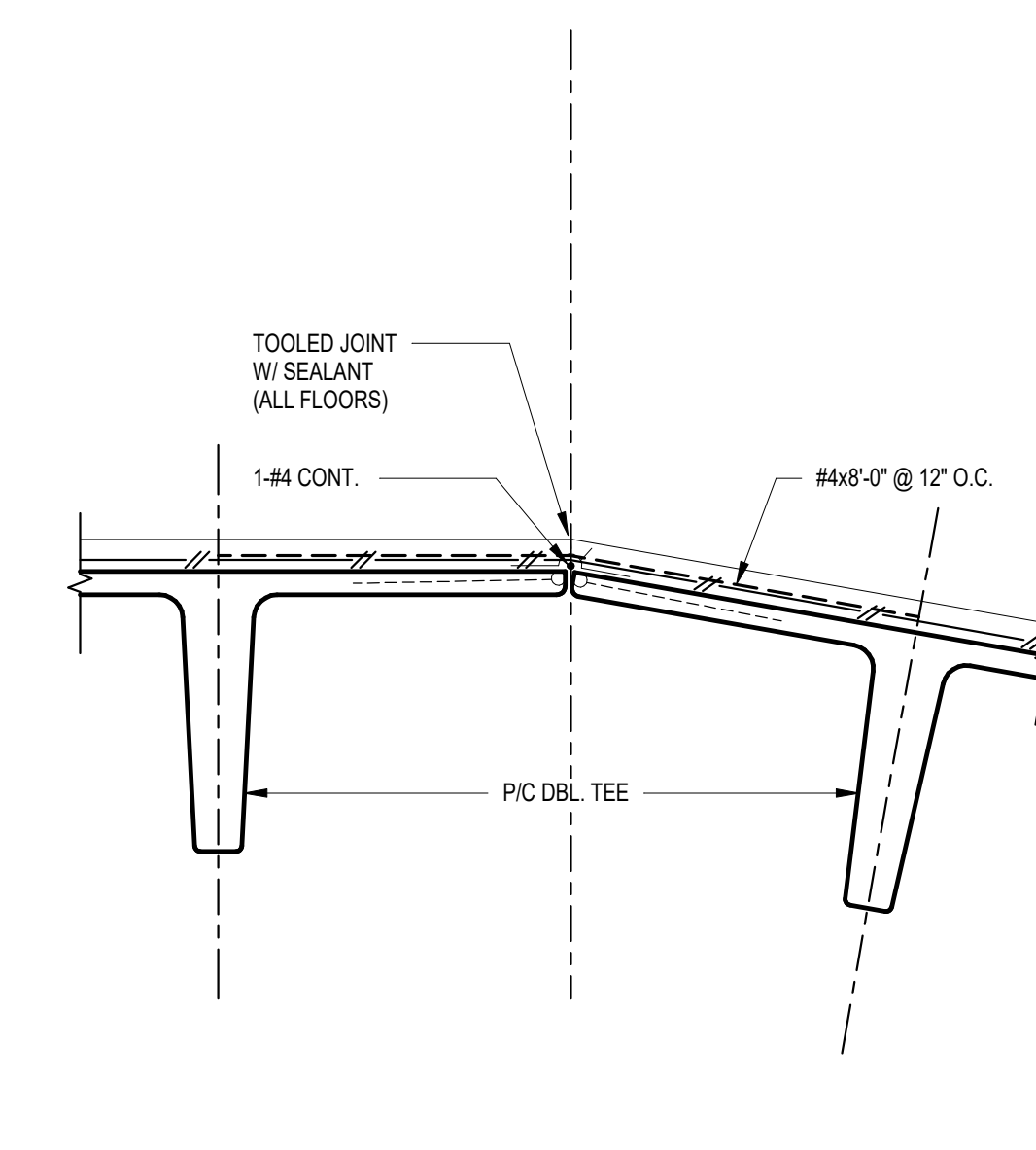
5 EXTERIOR SECTION
 3/4" = 1'-0"



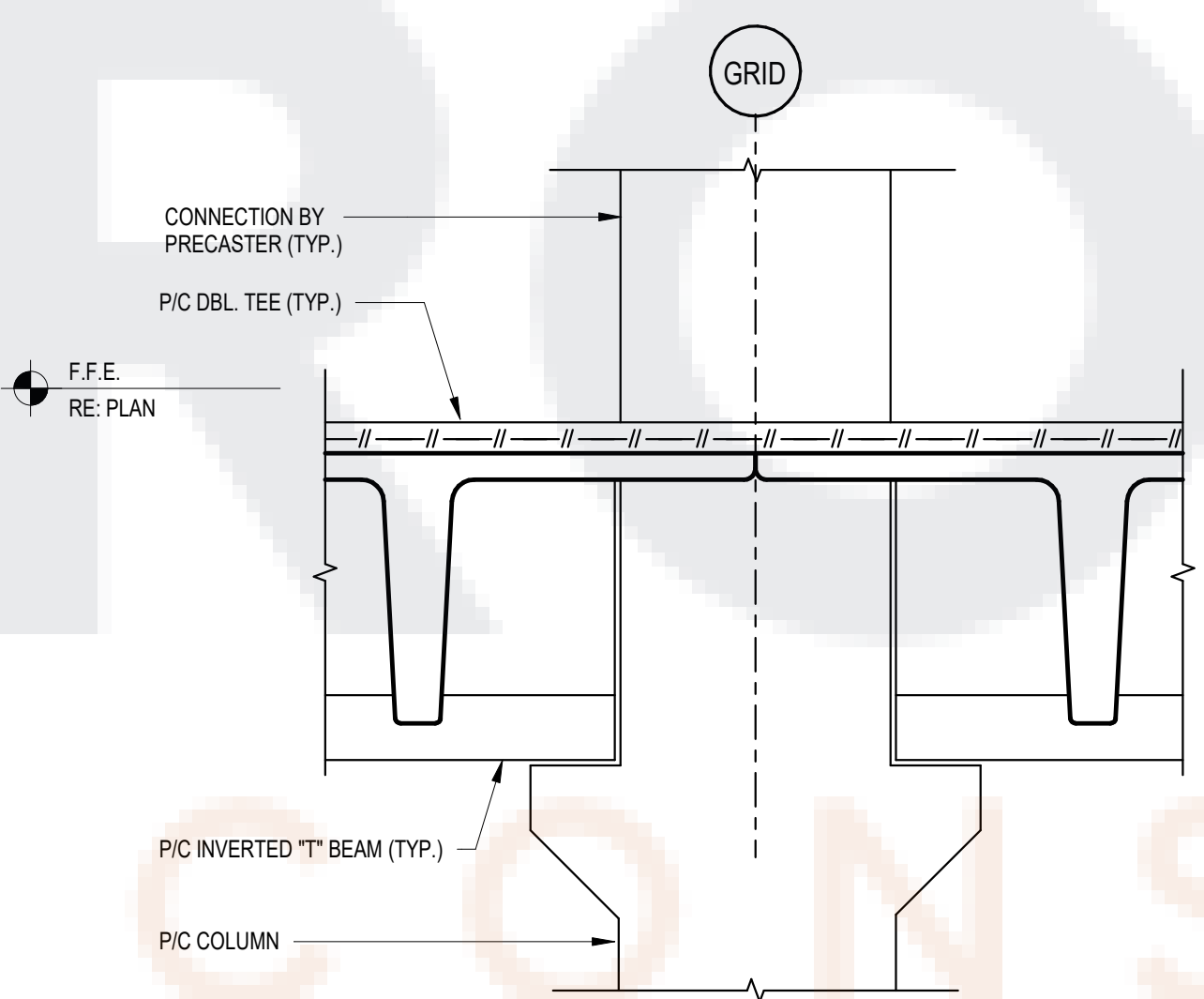
6 INTERIOR INVERTED "T" BEAM SECTION
 3/4" = 1'-0"



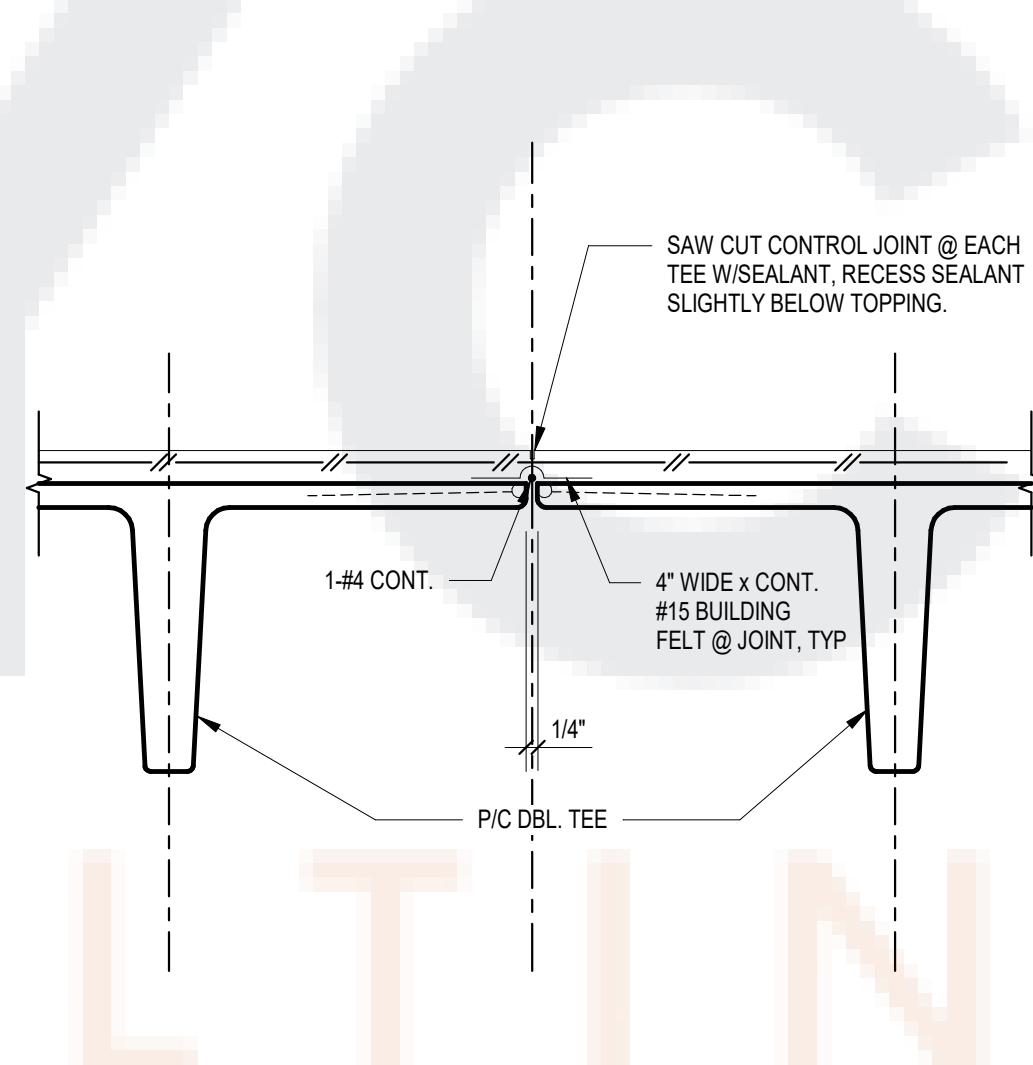
7 TYP DOUBLE TEE RAMP UP SECTION
 3/4" = 1'-0"



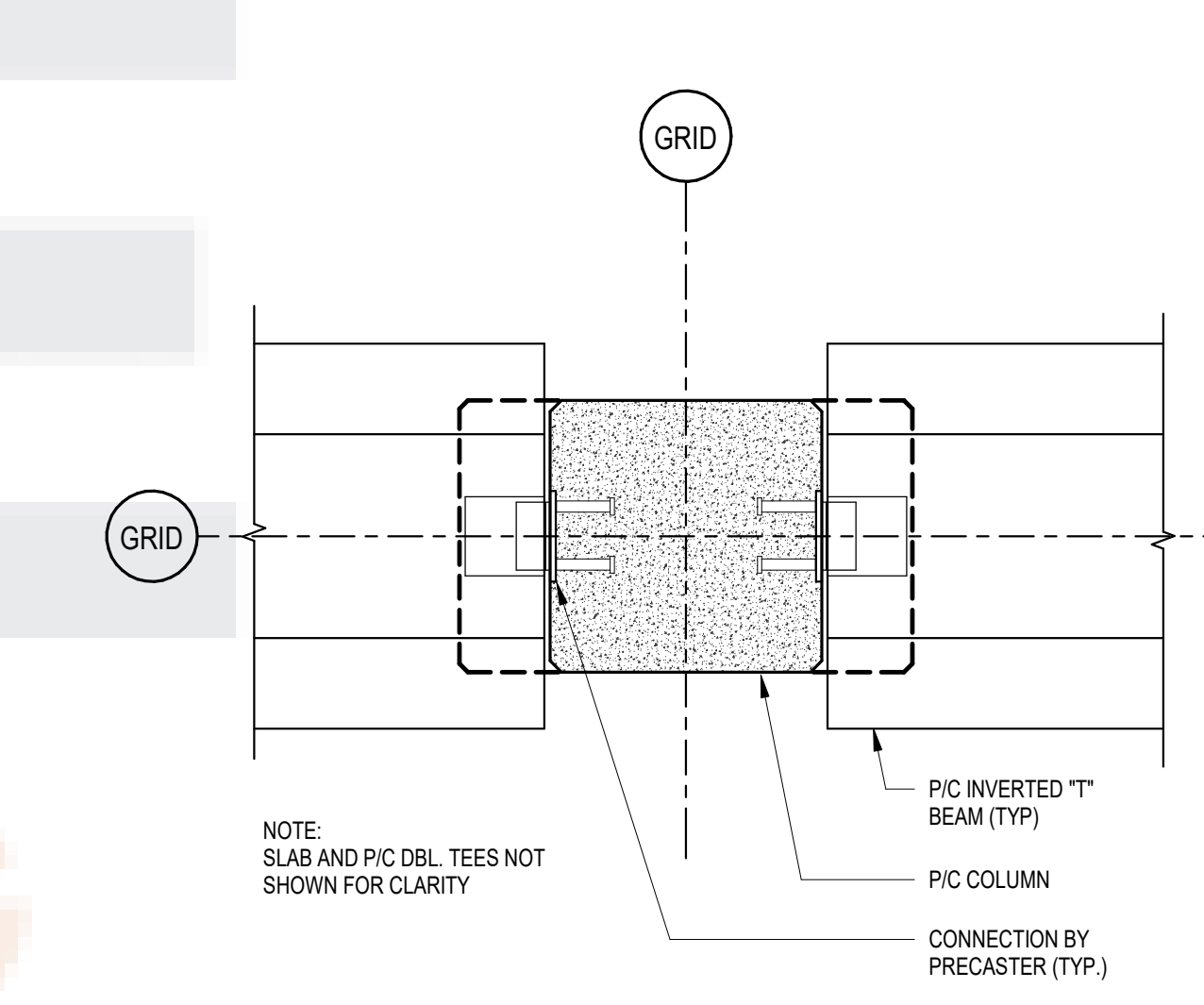
8 TYP DOUBLE TEE RAMP DOWN SECTION
 3/4" = 1'-0"



9 INTERIOR COLUMN CONNECTION DETAIL
 3/4" = 1'-0"



10 TYP DOUBLE TEE SECTION
 3/4" = 1'-0"



11 PLAN - COL TO INVERTED "T" BEAM CONN
 3/4" = 1'-0"

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 832.766.6076

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 210.690.1705

PROJECT:
 NORTHWEST HYUNDAI

PROJECT ADDRESS:
 19120 NORTHWEST FWY
 HOUSTON, TEXAS 77065

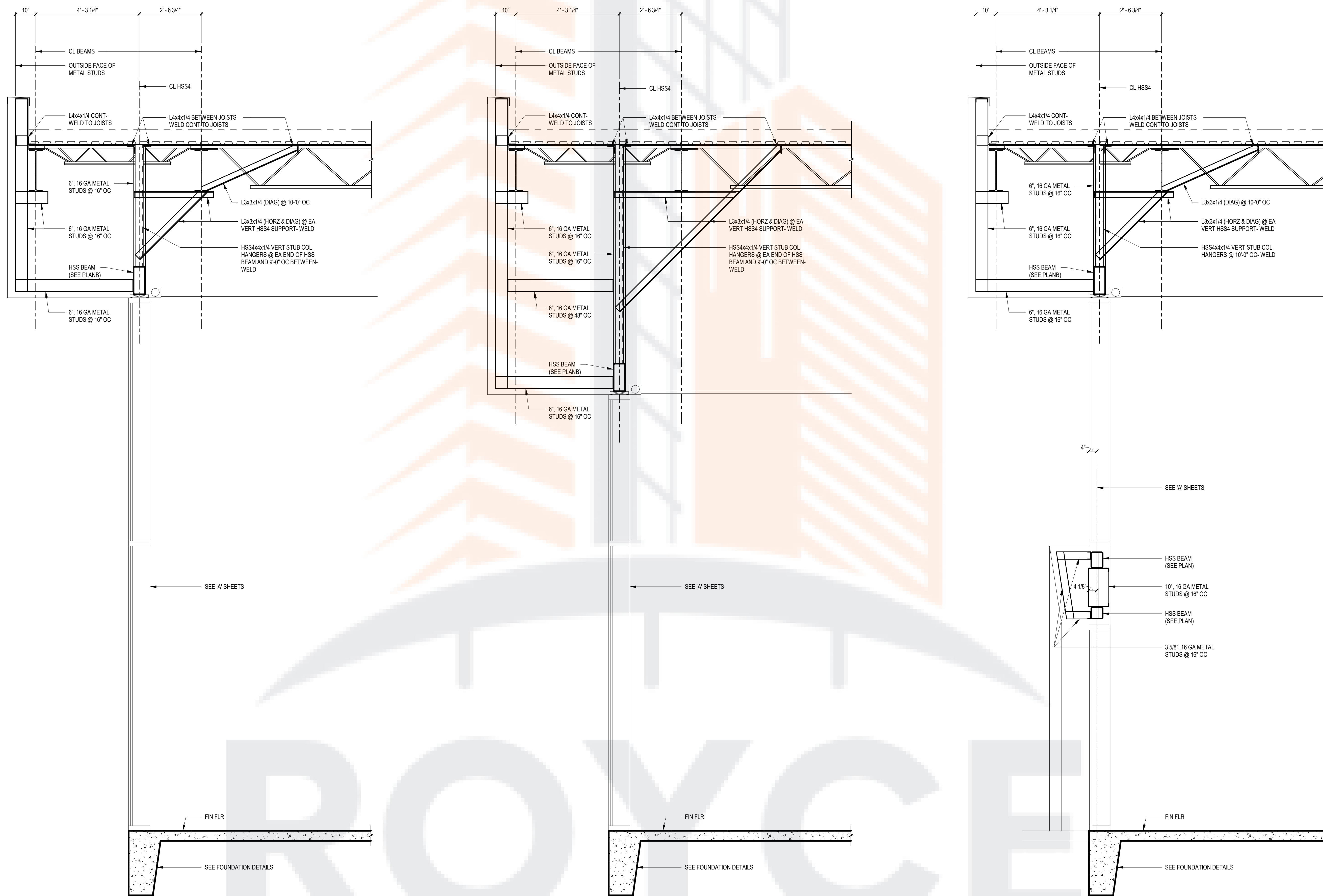
SEAL/SIGNATURE:



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ISSUE HISTORY:

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1 SECTION
 1/2" = 1'-0"

2 SECTION
 1/2" = 1'-0"

3 SECTION
 1/2" = 1'-0"

PROJECT NUMBER: LA2216

ISSUE DATE: 06/25/22

SHEET NAME:

SECTIONS

SHEET:

S600

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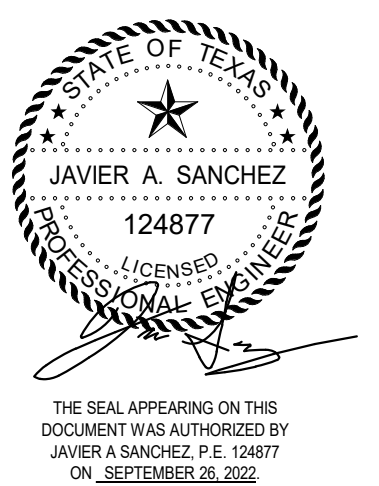
MEP ENGINEER
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 832.766.6076

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 MANCO STRUCTURES, LTD
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 SCHERTZ, TEXAS 78154
 210.690.1705

PROJECT:
 NORTHWEST HYUNDAI

PROJECT ADDRESS:
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 HOUSTON, TEXAS 77065

SEAL/SIGNATURE:



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ISSUE HISTORY:

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PROJECT NUMBER: LA2216

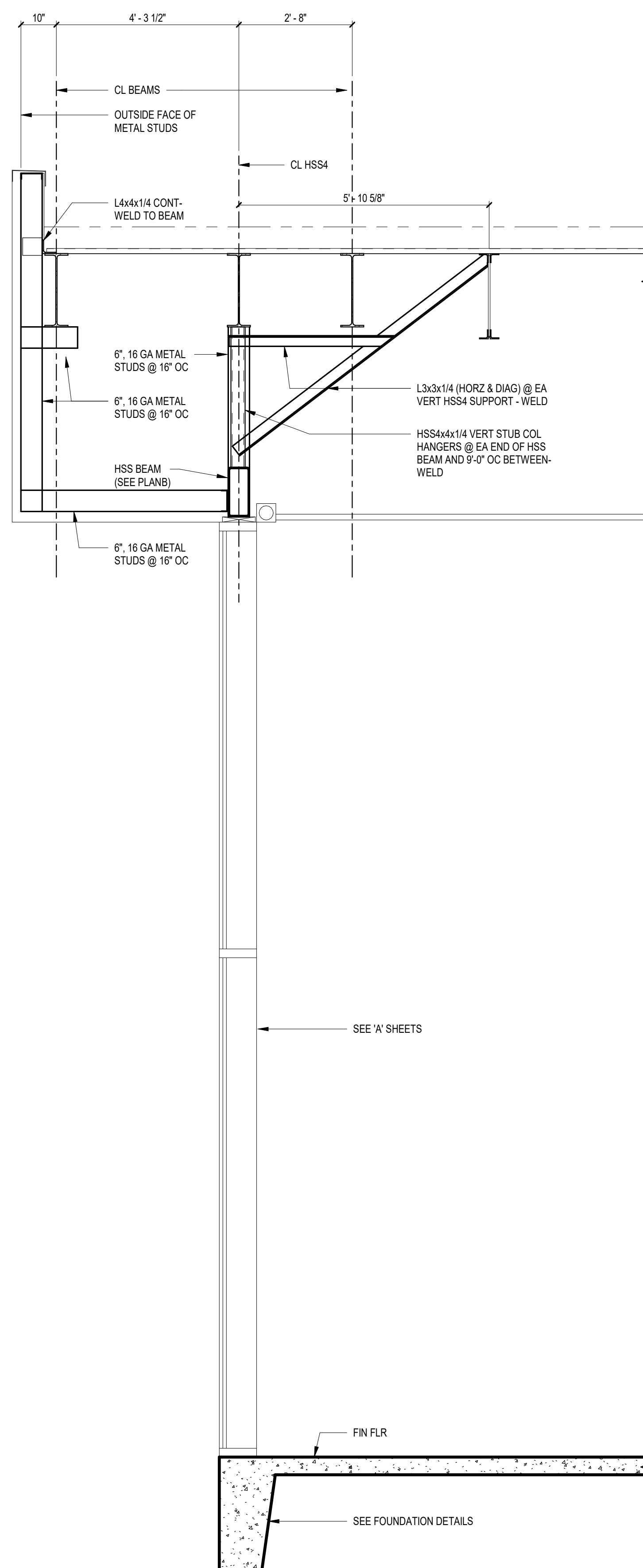
ISSUE DATE: 06/25/22

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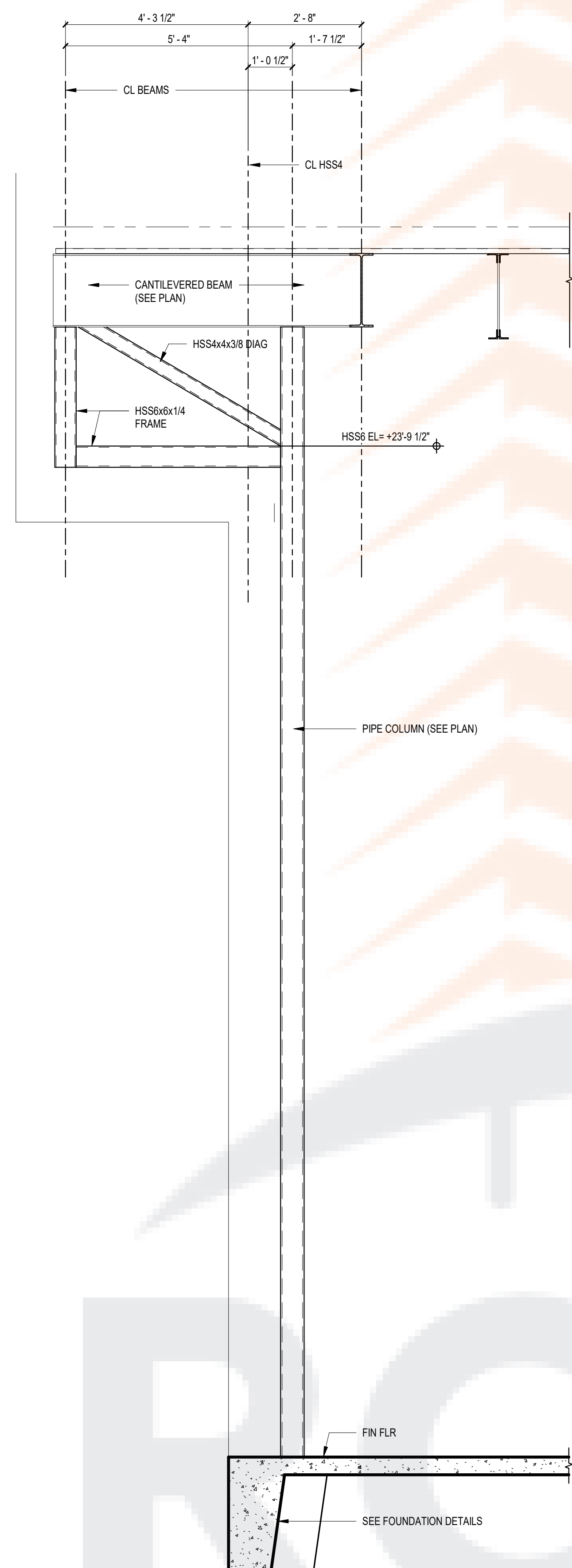
SECTIONS

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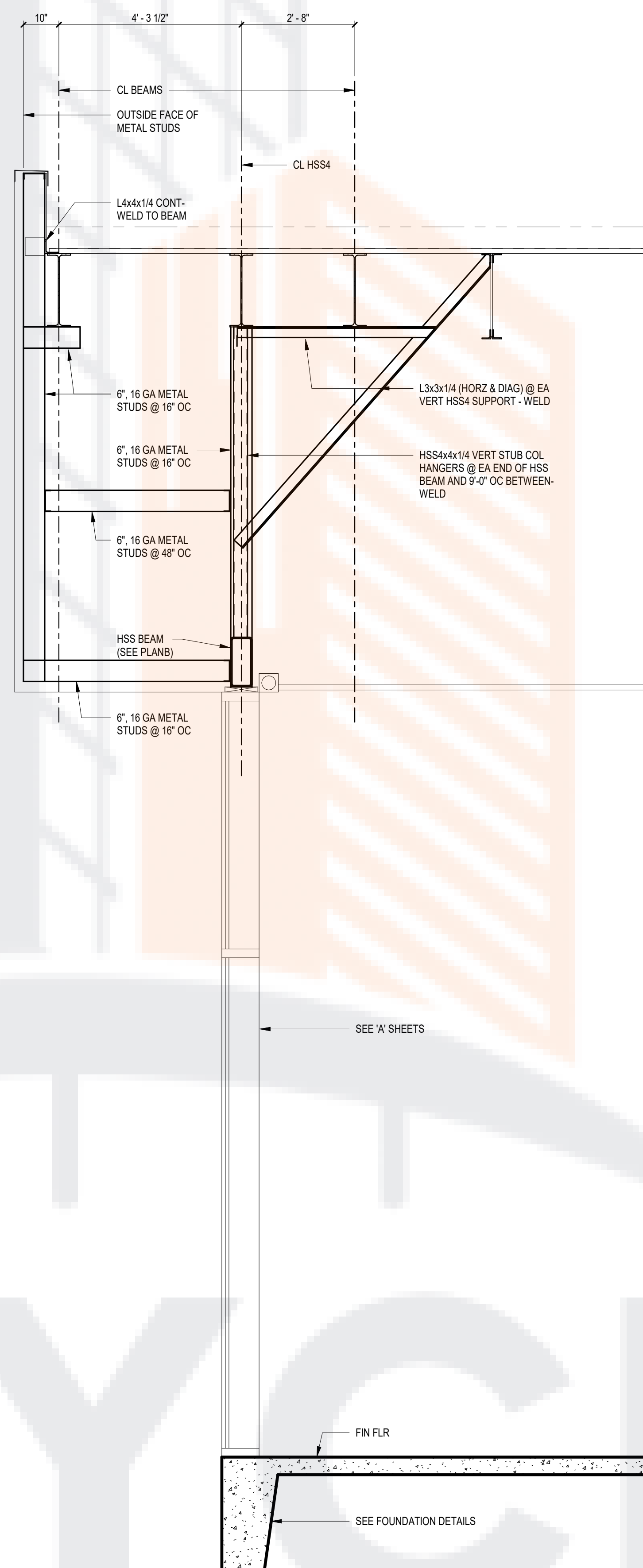
S601



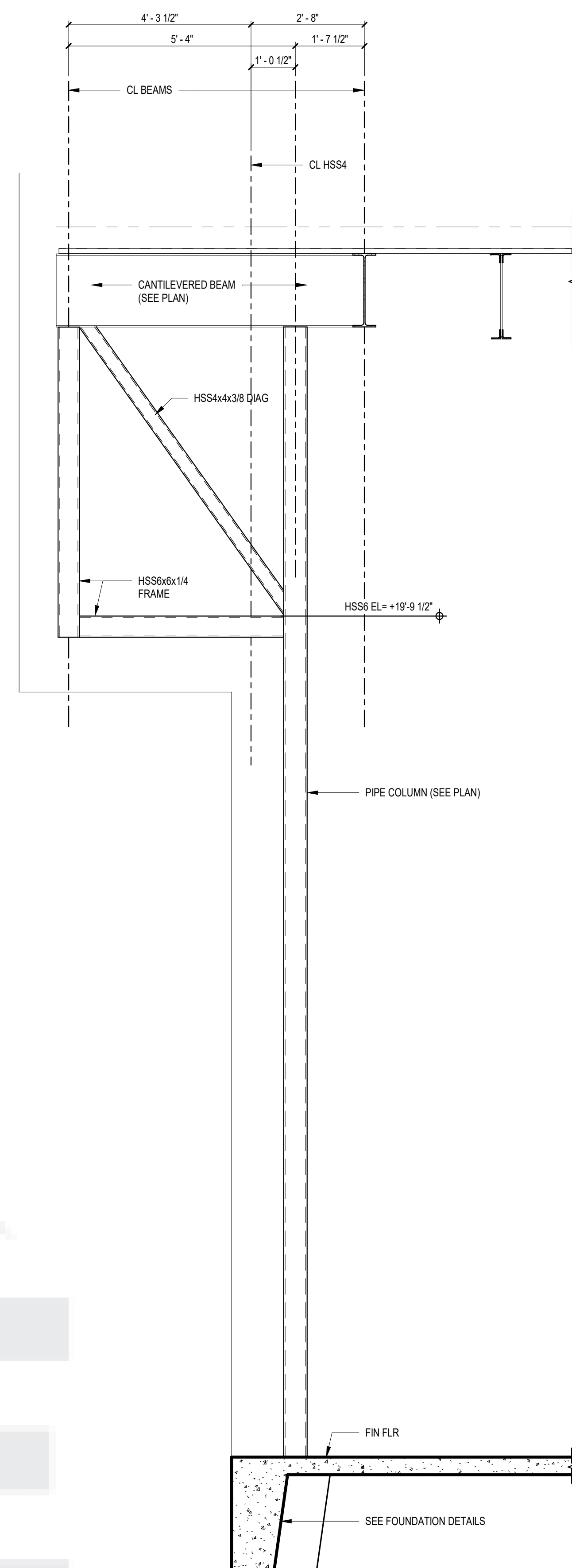
1 SECTION
 1/2" = 1'-0"



2 FRAME SECTION @ GRID 2/A & 2/B
 1/2" = 1'-0"



3 SECTION
 1/2" = 1'-0"



4 FRAME SECTION @ GRID 7.3/A & 7.3/B
 1/2" = 1'-0"

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 713.992.4148

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 KATY, TEXAS 77450
 254.640.8226

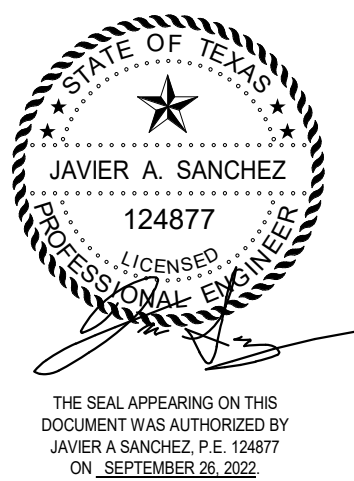
MEP ENGINEER
 SPECTRUM DESIGN ENGINEERS
 19 SIERRA OAKS DR.
 SUGAR LAND, TEXAS 77479
 832.766.6076

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 MANCO STRUCTURES, LTD
 6101 FM 3009
 SCHERTZ, TEXAS 78154
 210.690.1705

PROJECT:
 NORTHWEST HYUNDAI

PROJECT ADDRESS:
 19120 NORTHWEST FWY
 HOUSTON, TEXAS 77065

SEAL/SIGNATURE:



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ISSUE HISTORY:

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PROJECT NUMBER: LA2216

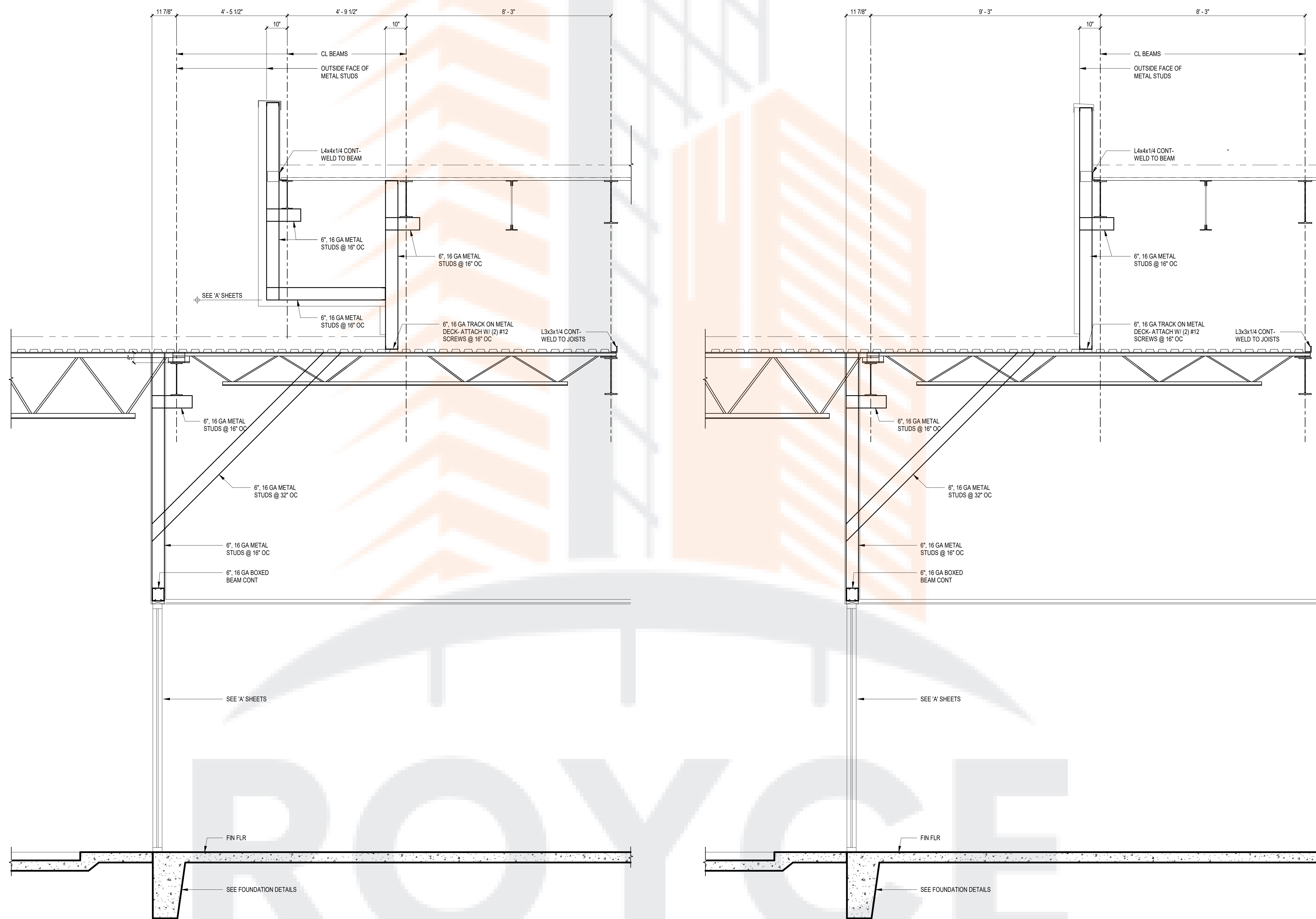
ISSUE DATE: 06/25/22

SHEET NAME:

SECTIONS

SHEET:

S602



1 SECTION
 1/2" = 1'-0"

2 SECTION
 1/2" = 1'-0"

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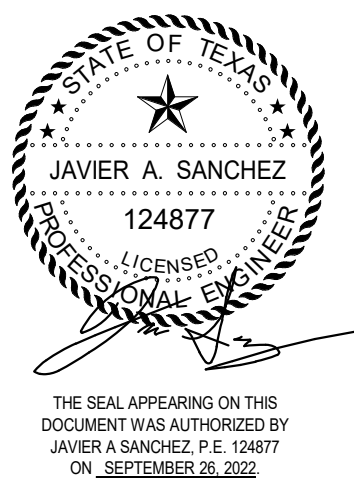
MEP ENGINEER
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 832.766.6076

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PROJECT:
 NORTHWEST HYUNDAI

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SEAL/SIGNATURE:



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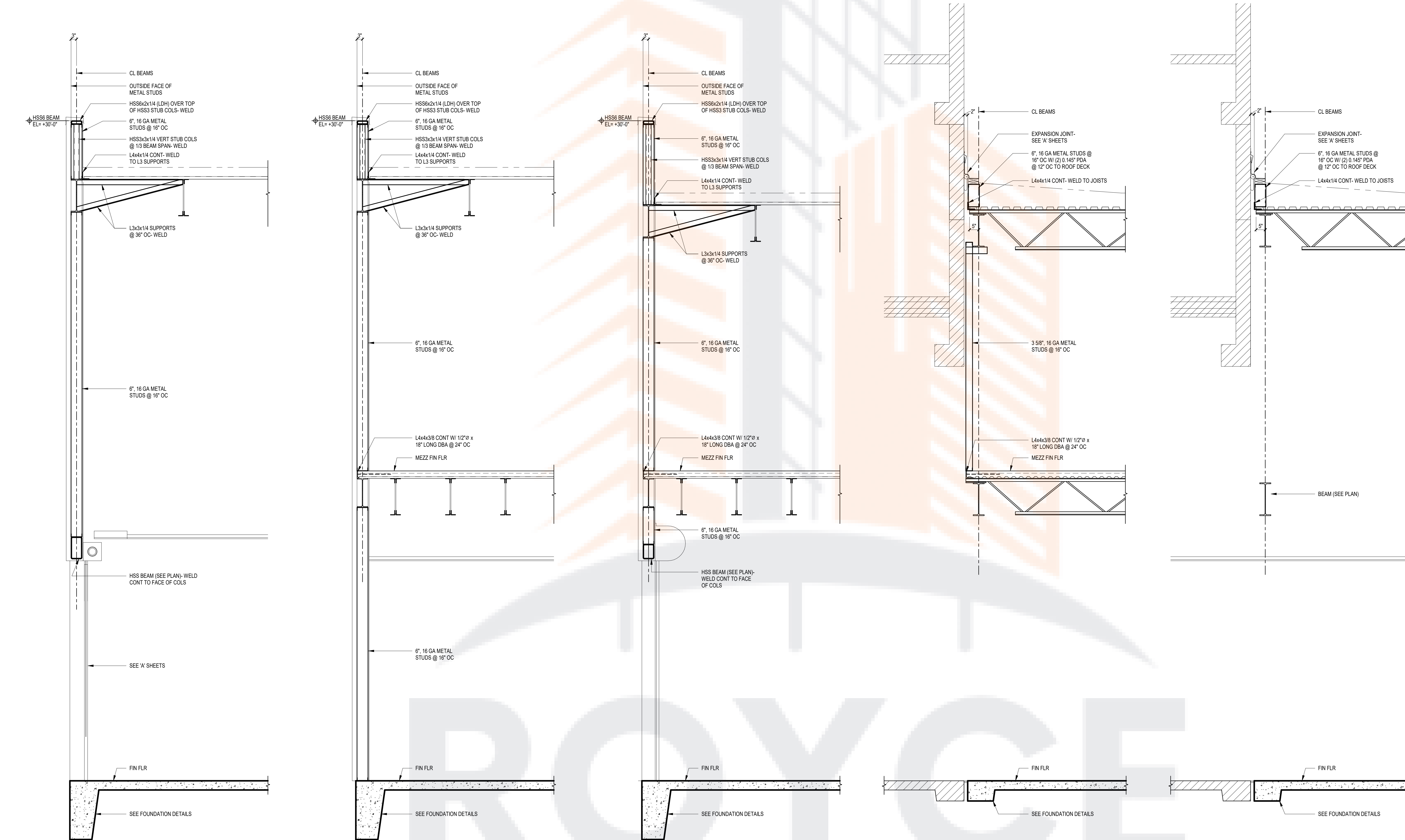
ISSUE DATE: 06/25/22

SHEET NAME:

SECTIONS

SHEET:

S603



1 SECTION 1/2" = 1'-0"
2 SECTION 1/2" = 1'-0"
3 SECTION 1/2" = 1'-0"
4 SECTION 1/2" = 1'-0"
5 SECTION 1/2" = 1'-0"

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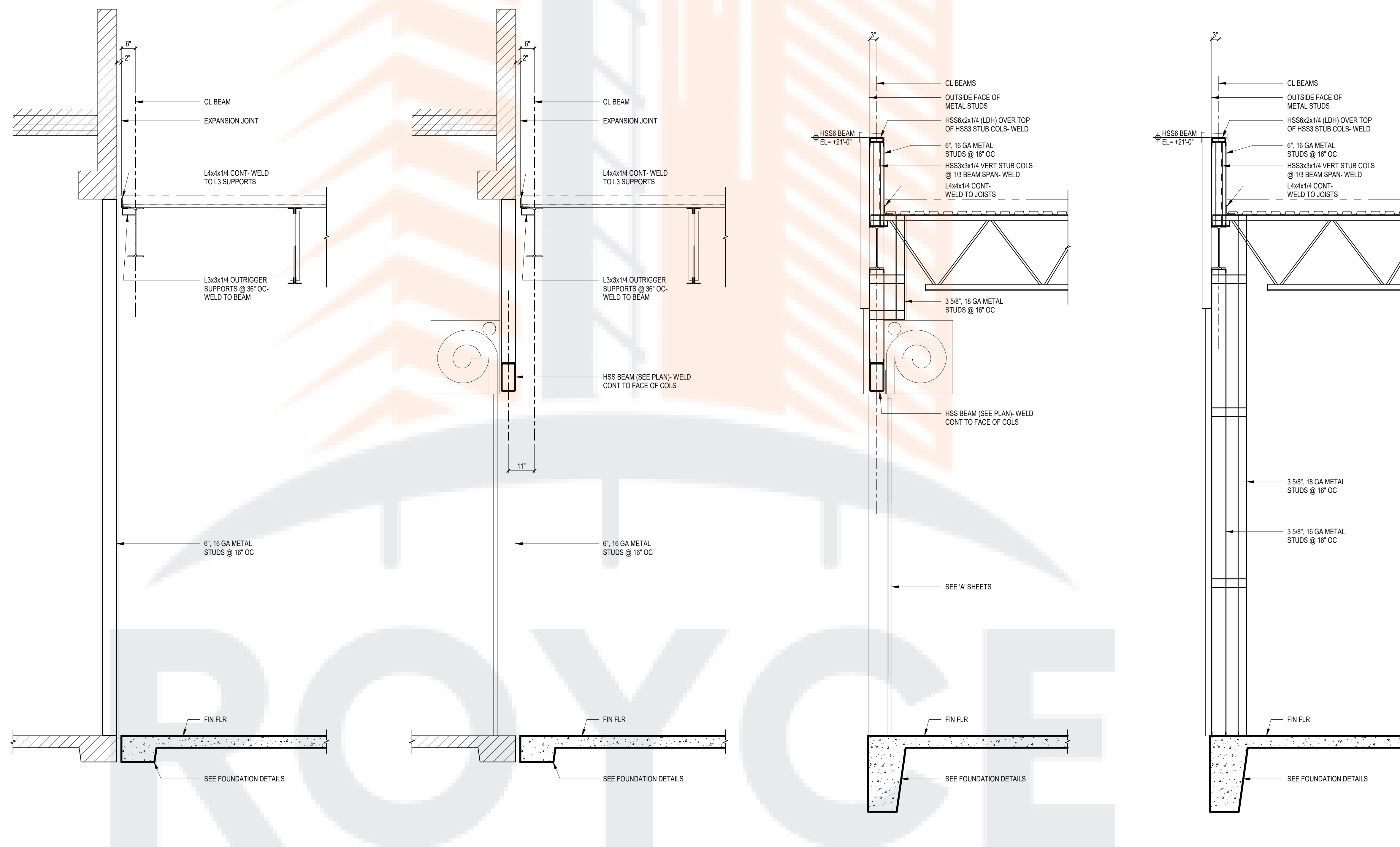
ISSUE DATE: 06/25/22

SHEET NAME:

SECTIONS

SHEET:

S604



1 SECTION
 1/2" = 1'-0"

2 SECTION
 1/2" = 1'-0"

3 SECTION
 1/2" = 1'-0"

4 SECTION
 1/2" = 1'-0"

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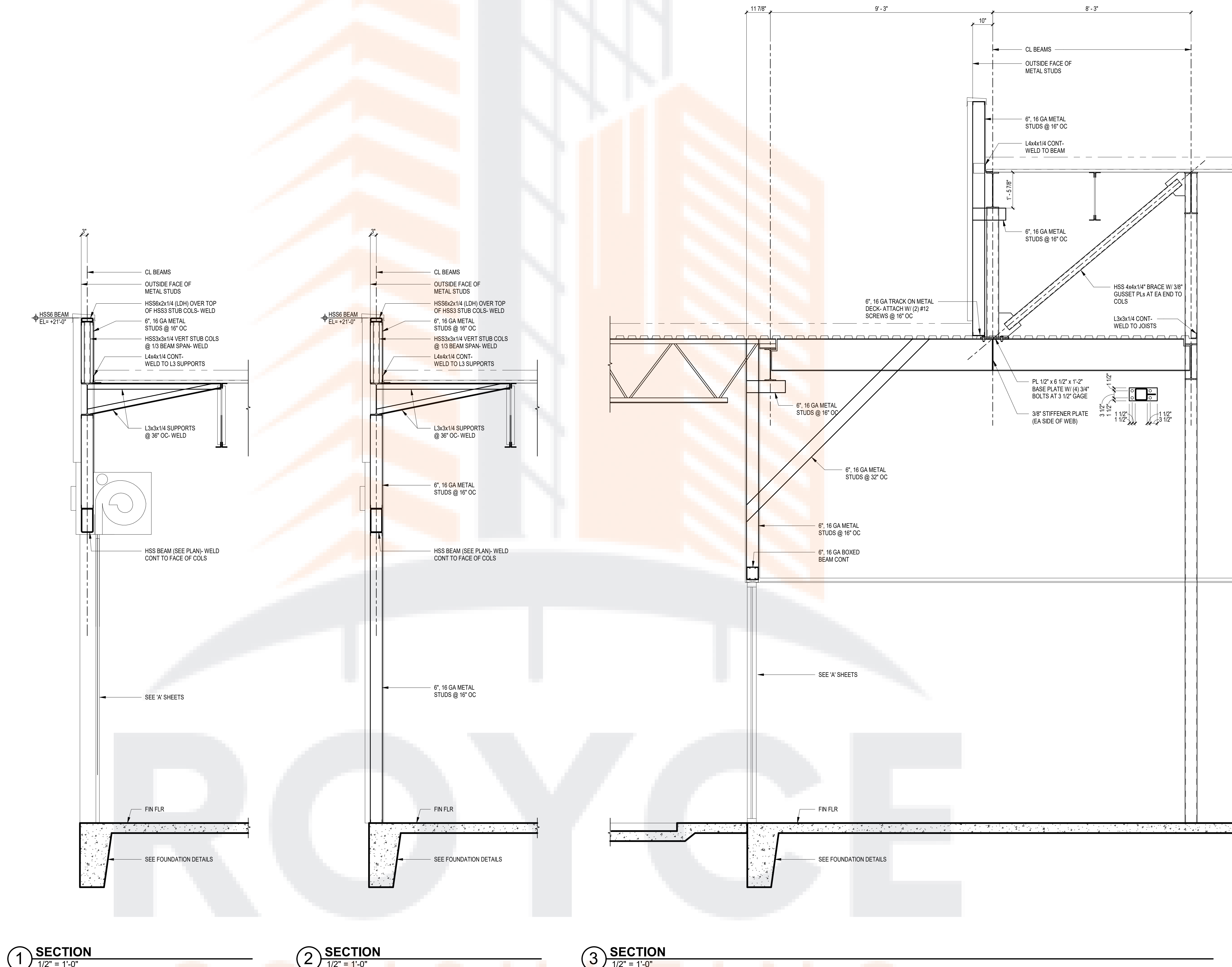
ISSUE DATE: 06/25/22

SHEET NAME:

SECTIONS

SHEET:

S605



1 SECTION
 1/2" = 1'-0"

2 SECTION
 1/2" = 1'-0"

3 SECTION
 1/2" = 1'-0"

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6101 FM 3009
SCHERTZ, TEXAS 78154
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SEAL/SIGNATURE:



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ENGINEERING
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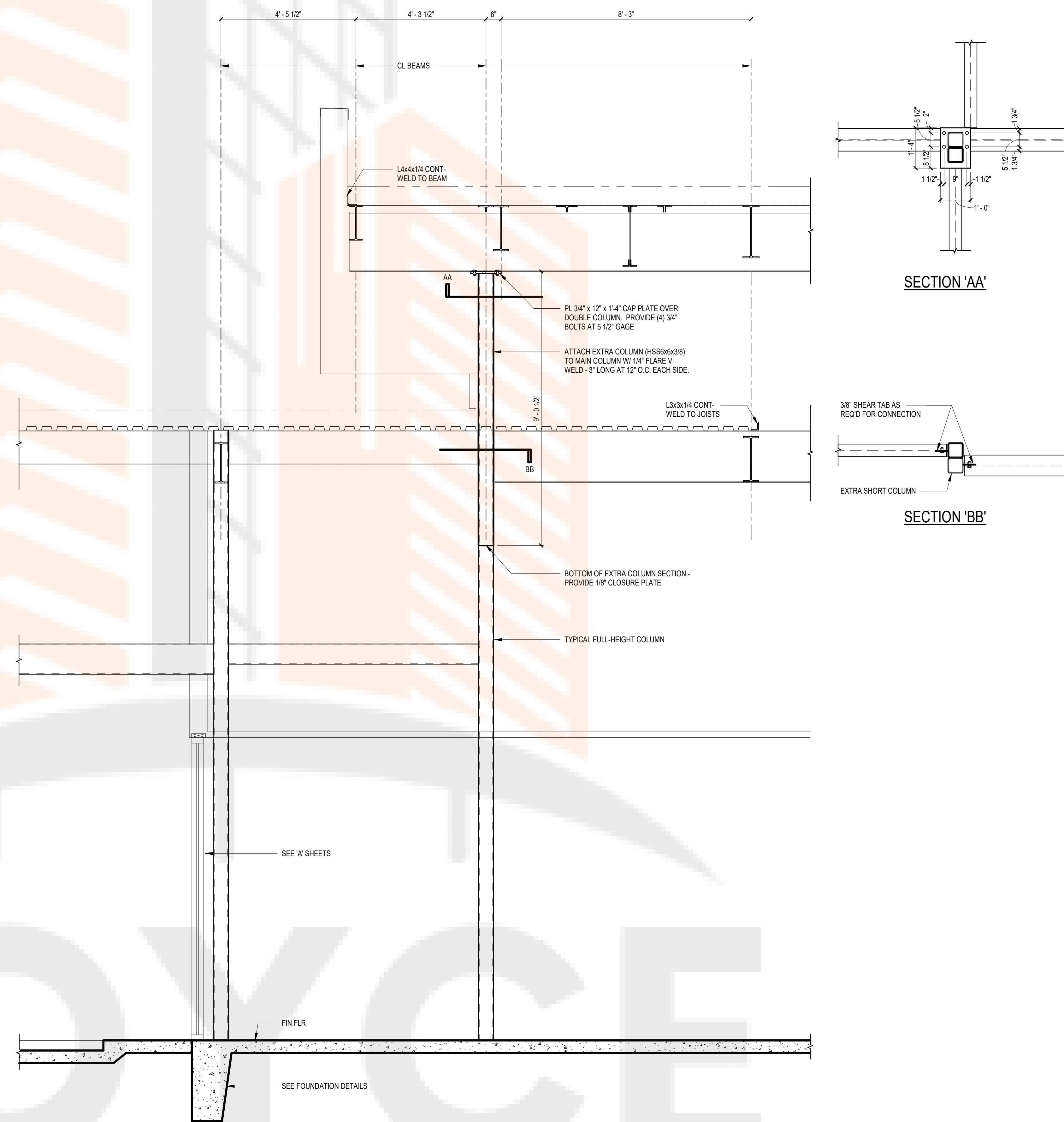
ISSUE DATE: 06/25/22

SHEET NAME:

SECTIONS

SHEET:

S606



1 SECTION
1/2" = 1'-0"

