

PROJECT NAME: 59 TWEED BLVD

PROJECT ARCHITECT: CWB ARCHITECTS
 STRUCTURAL ENGINEER: DOMINICK R.PILLA ASSOCIATES PC

PROJECT ADDRESS: 59 TWEED BLVD, NYACK, NY 10960

ISSUED: FOR BUILDING PERMIT

STRUCTURAL PLANS

DATE: 08/17/2021

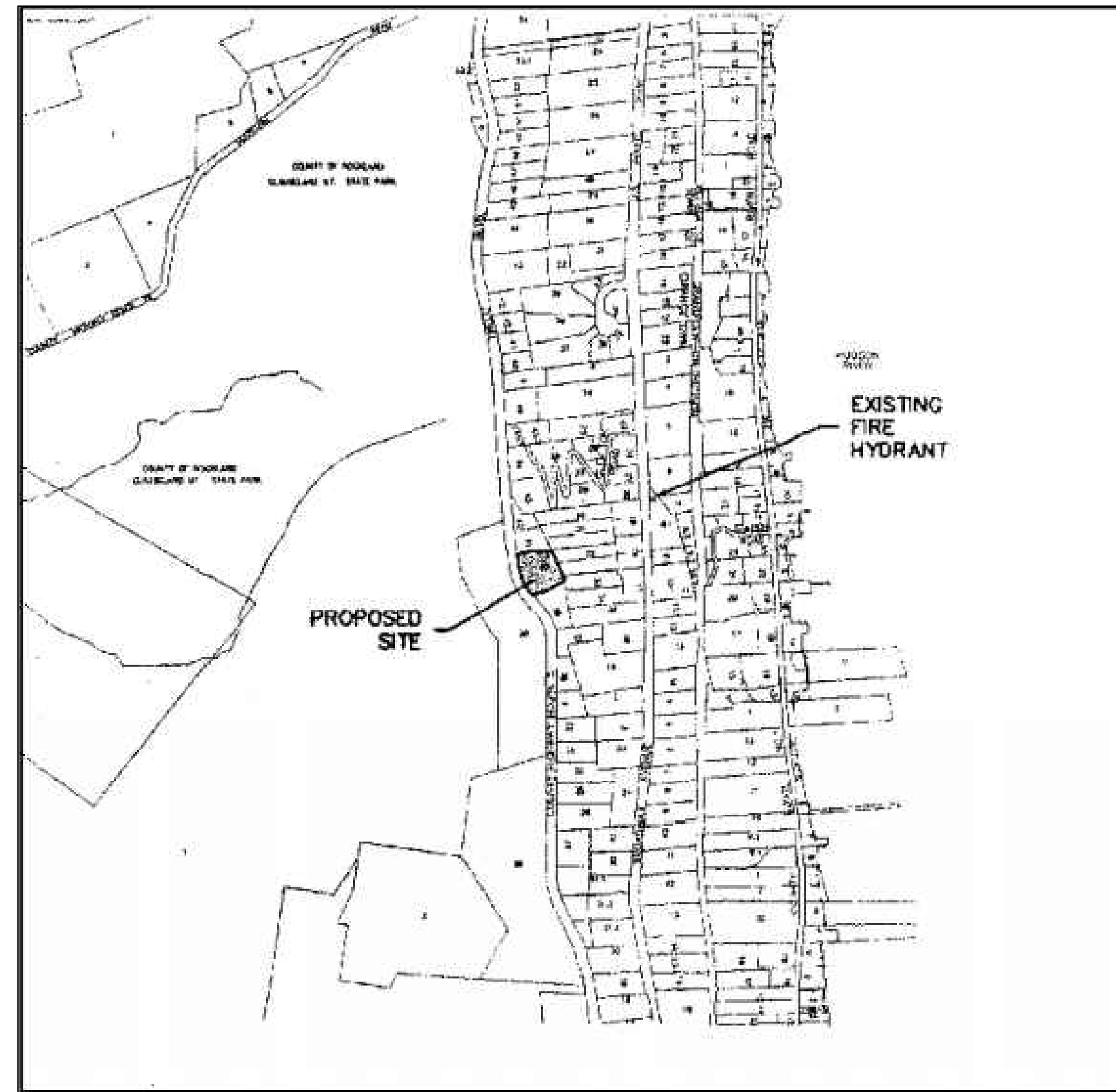
Ike Kligerman Barkley
 330 West Forty-Second Street
 New York, NY 10096
 212 268 0128

INDEX OF DRAWINGS			
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SYMBOL LEGEND	
	SECTION SYMBOL
	DETAIL REFERENCE SYMBOL
	ELEVATION REFERENCE SYMBOL
	PLAN, SECTION, OR DETAIL TITLE SYMBOL
	ELEVATION SYMBOL
	BEAM MOMENT CONNECTION
	POST UP/POST DOWN
LT-#	PRECAST LINTEL
GB-#	CONCRETE GRADE BEAM
F-#	FOOTING NUMBER
MW-#	MASONRY WALL NUMBER
CB-#	CONCRETE BEAM
CP-#	CONCRETE PIER
CW-#	CONCRETE WALL NUMBER

ABBREVIATION	
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
B	BOTTOM REINFORCEMENT
BM	BEAM
BS	BOTH SIDES
BU	BUILT UP MEMBER
BW	BEARING WALL
C	COMPRESSION FORCE IN KIPS
CANT.	CANTILEVER
CL	CENTER LINE
CG	CENTER OF GRAVITY
COL	COLUMN
CONT	CONTINUOUS
COMP LAP	COMPRESSION REINF LAP SLICE
CP	COMPLETE PENETRATION WELD
DB	DEVELOPMENT LENGTH OF REINFORCEMENT BAR
DEL	DELTA OR CHANGE IN ELEVATION
(E)	EXISTING CONSTRUCTION
EF	EACH FACE
EL	ELEVATION
EW	EACH WAY
F	FINISHED SURFACE
GB	GRADE BEAM
H	HORIZONTAL REINFORCEMENT
H	HORIZONTAL FORCE IN KIPS
JLJ2	NEW CODE FORMED STEEL JOISTS
LAP	FULL TENSION CAPACITY LAP SPLICE
LD	TENSION DEVELOPMENT LENGTH FOR REINFORCING BARS
LDC	COMPRESSION SPLICE LENGTH FOR REINFORCING BARS
LLBB	LONG LEGS BACK-TO-BACK
LW	LIGHTWEIGHT CONCRETE
M	BENDING MOMENT IN FOOT-KIPS
MC	MOMENT CONNECTION SHOWN ON DRAWING
MIN	MINIMUM
(N)	NEW CONSTRUCTION
N	BEARING BOLTS THREADS INCLUDED IN SHEAR PLANE
NTS	NOT TO SCALE
OC	ON CENTER
PC	PILE CAP
PL	PLATE
PP	PARTIAL PENETRATION WELD
PL	PROPERTY LINE
SAD	SEE ARCHITECTURAL DRAWINGS/DETAILS
SL,S2	SLAB ON DECK TYPE
SC	SLIP CRITICAL BOLT
SIM	SIMILAR
SPW	SOLDIER PILE LAGGING WALL
SW	SHEAR WALL
T	TENSION FORCE IN KIPS
T	THICKNESS
T	TOP REINFORCEMENT
TBC	TO BE CONFIRMED
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TYP	TYPICAL
UNO,UON	UNLESS OTHERWISE NOTED
M	MOMENT
V	VERTICAL BEAM END REACTION IN KIPS
VIF	VERIFY IN FIELD
WP	WORKPOINT
WWF	WELDED WIRE FABRIC

LEGEND	
	NEW CONCRETE RETAINING WALL
	NEW FOOTING
	PROPERTY LINE



A VICINITY MAP

SPECIAL INSPECTIONS		
STRUCTURAL STEEL - WELDING		BC 1704.3.1
STRUCTURAL STEEL - DETAILS		BC 1704.3.2
STRUCTURAL STEEL - HIGH STRENGTH BOLTS		BC 1704.3.3
STRUCTURAL COLD-FORMED STEEL		BC 1704.3.4
• CONCRETE - CAST-IN-PLACE		BC 1704.4
CONCRETE - PRECAST		BC 1704.4
CONCRETE - PRESTRESSED		BC 1704.4
MASONRY		BC 1704.5
WOOD - INSTALLATION OF HIGH-LOAD DIAPHRAGMS		BC 1704.6.1
WOOD-INSTALLATION OF METAL-PLATE-CONNECTED TRUSSES		BC 1704.6.2
WOOD - INSTALLATION OF PREFABRICATED I-JOISTS		BC 1704.6.3
• SUBGRADE INSPECTION		BC 1704.7.1
• SUBRAGE CONDITIONS - FILL PLACEMENT & IN-PLACE DENSITY		BC 1704.7.2 BC 1704.7.3
• SUBSURFACE INVESTIGATIONS (BORINGS/TEST PITS) TR4		BC 1704.7.4
DEEP FOUNDATION ELEMENTS TR5		BC 1704.8
HELICAL PILES (BB# 2014-020) TR5H		BC 1704.8.5
VERTICAL MASONRY FOUNDATION ELEMENTS		BC 1704.9
WALL PANELS, CURTAIN WALLS, AND VENEERS		BC 1704.10
STRUCTURAL STABILITY - EXISTING BUILDINGS		BC 1704.20.1
EXCAVATIONS-SHEETING, SHORING, AND BRACING		BC 1704.20.2
UNDERPINNING		BC 1704.20.3 BC1814
• RAISING AND MOVING OF A BUILDING		BC 1704.20.5
• POST-INSTALLED ANCHORS (BB# 2014-018, 2014-019)		BC 1704.32
SEISMIC ISOLATION SYSTEMS		BC 1707.8
CONCRETE DESIGN MIX TR3		BC1905.3 BC 1913.5
CONCRETE SAMPLING AND TESTING TR2		BC 1905.6 BC1913.10
PROGRESS INSPECTIONS		
FOOTING AND FOUNDATION		BC 110.3.1
STRUCTURAL WOOD FRAME		BC 110.3.2.
FINAL		BC 110.5

REQUIRED SHOP DRAWING SUBMITTALS	
• REINFORCING STEEL	
STEEL DECKING AND STUD LAYOUT	
STRUCTURAL STEEL	
STEEL STAIRS	
CONCRETE STAIRS	
STRUCTURAL COLD FORM STEEL	
PRECAST CONCRETE	
• CONCRETE DESIGN MIX	
ANCHOR ROD LAYOUT	
COMPOSITE DRAWINGS OF ALL SLAB PENETRATIONS	
CONCRETE MASONRY	
CURTAIN WALLS	

59 TWEED BLVD.

No.	REMARKS	DATE
1		
2		
3		

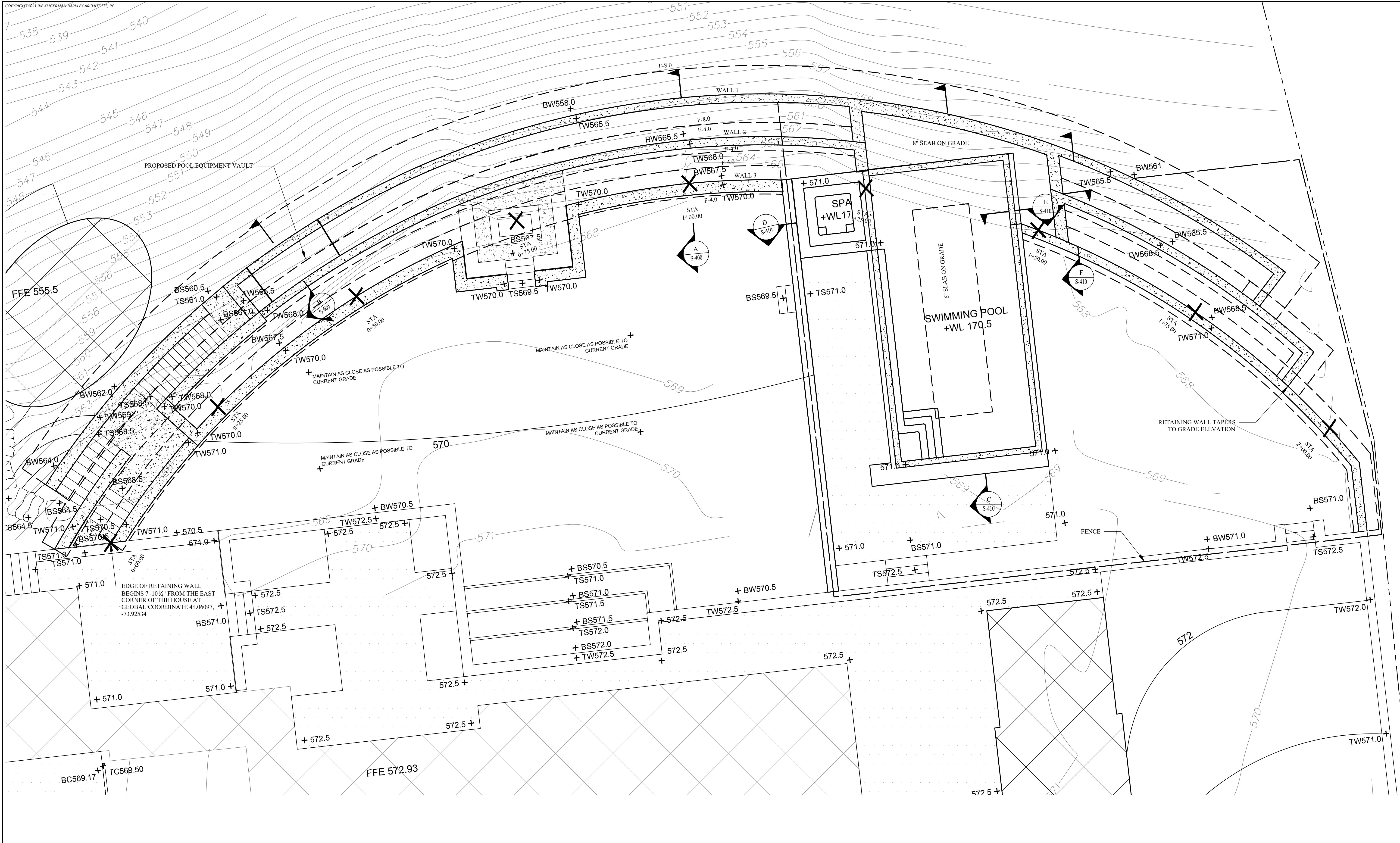
PROJECT:
RESIDENCE
 59 TWEED BOULEVARD
 ORANGEBURG, NY 10960

SEAL & SIGNATURE:

TITLE SHEET

DATE: 08/17/2021
 PROJECT No.: 21-077
 DRAWING BY: AM/JB
 CHK BY: GF
 DWG No.:

S-001.00



59 TWEED BLVD.

No.	REMARKS	DATE
1		
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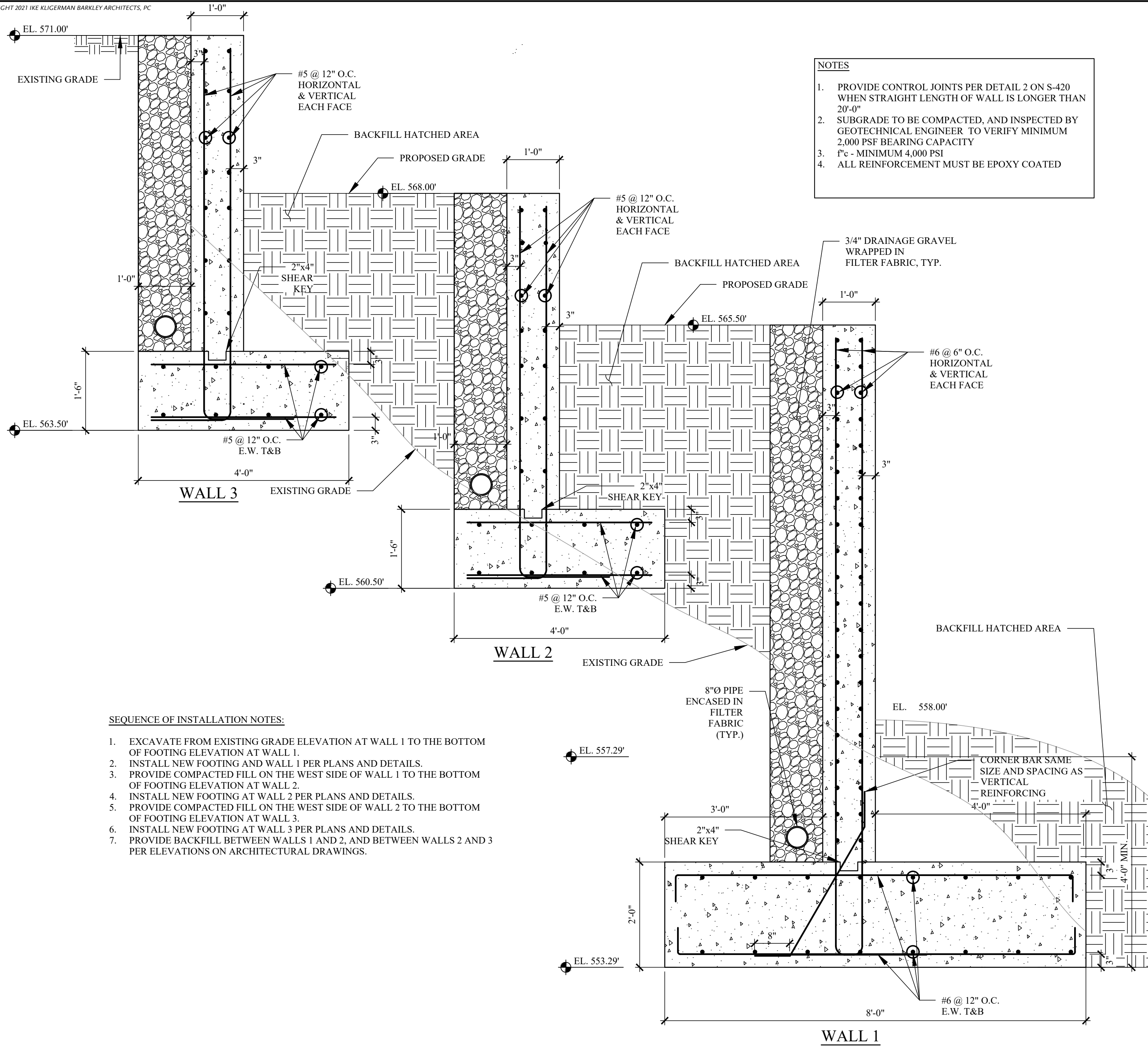


RETAINING WALL PLAN

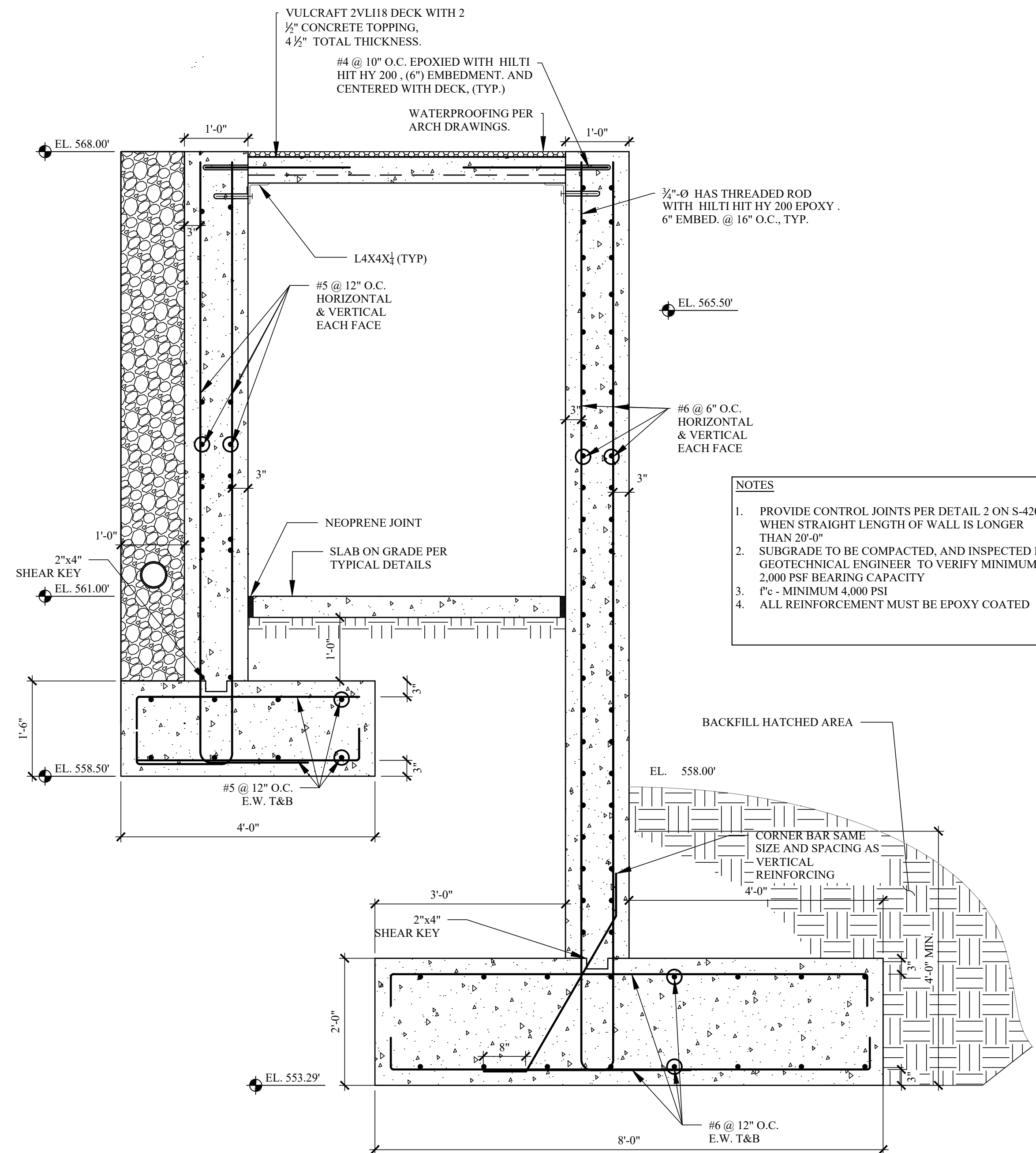
1 RETAINING WALL PLAN
 1"=75'

DATE: 08/17/2021
 PROJECT No.: 21-077
 DRAWING BY: AM/JB
 CHK BY: GF

DWG No.: **S-300.00**



A RETAINING WALL SECTION AT STA 1+00.00
 S-300 SCALE: 3/4"=1'-0"



B VAULT SECTION
 S-300 SCALE: 3/4"=1'-0"

		FROM STA 0+00.00 TO STA 0+16.75	FROM STA 0+16.75 TO STA 0+25.00	FROM STA 0+25.00 TO STA 0+50.00	FROM STA 0+50.00 TO STA 0+75.00	FROM STA 0+75.00 TO STA 1+00.00	FROM STA 1+00.00 TO STA 1+25.00	FROM STA 1+25.00 TO STA 1+50.00	FROM STA 1+50.00 TO STA 1+75.00	FROM STA 1+75.00 TO STA 2+00.00
WALL 1	T.O.W. ELEVATION (FT)	569.0	569.0	565.5	565.5	565.5	565.5	565.5	565.5	565.5
	B.O.W. ELEVATION (FT)	564.0	562.0	560.5	558.0	558.0	558.0	558.0	561.0	561.0
	B.O.F. ELEVATION (FT)	562.0	560.0	558.5	556.0	556.0	556.0	556.0	559.0	559.0
WALL 2	T.O.W. ELEVATION (FT)	571.0	570.0	568.0	568.0	568.0	568.0	NO WALL	568.5	568.5
	B.O.W. ELEVATION (FT)	564.5	564.5	561.0	565.5	565.5	565.5	NO WALL	656.5	656.5
	B.O.F. ELEVATION (FT)	563.0	563.0	559.5	564.0	564.0	564.0	NO WALL	655.0	655.0
WALL 3	T.O.W. ELEVATION (FT)	571.0	571.0	570.0	570.0	570.0	570.0	NO WALL	571.0	571.0
	B.O.W. ELEVATION (FT)	570.5	570.5	567.5	567.5	567.5	567.5	NO WALL	568.5	568.5
	B.O.F. ELEVATION (FT)	569.0	569.0	566.0	566.0	566.0	566.0	NO WALL	567.0	567.0

59 TWEED BLVD.

No.	REMARKS	DATE
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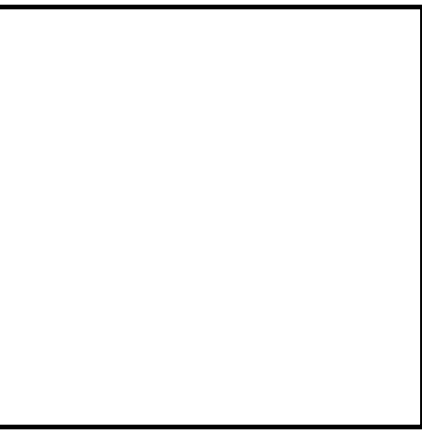
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RETAINING WALL SECTIONS

DATE: 08/17/2021
 PROJECT No.: 21-077
 DRAWING BY: AM/JB
 CHK BY: GF
 DWG No.:

S-400.00



59 TWEED BLVD.

No.	REMARKS	DATE
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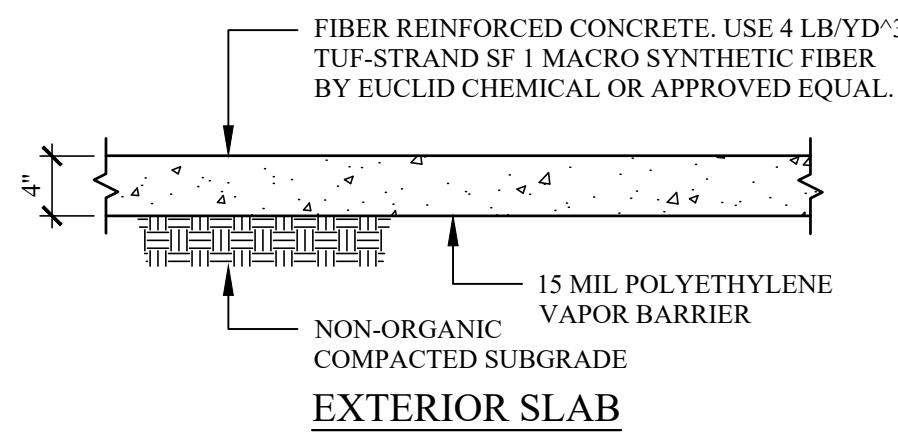
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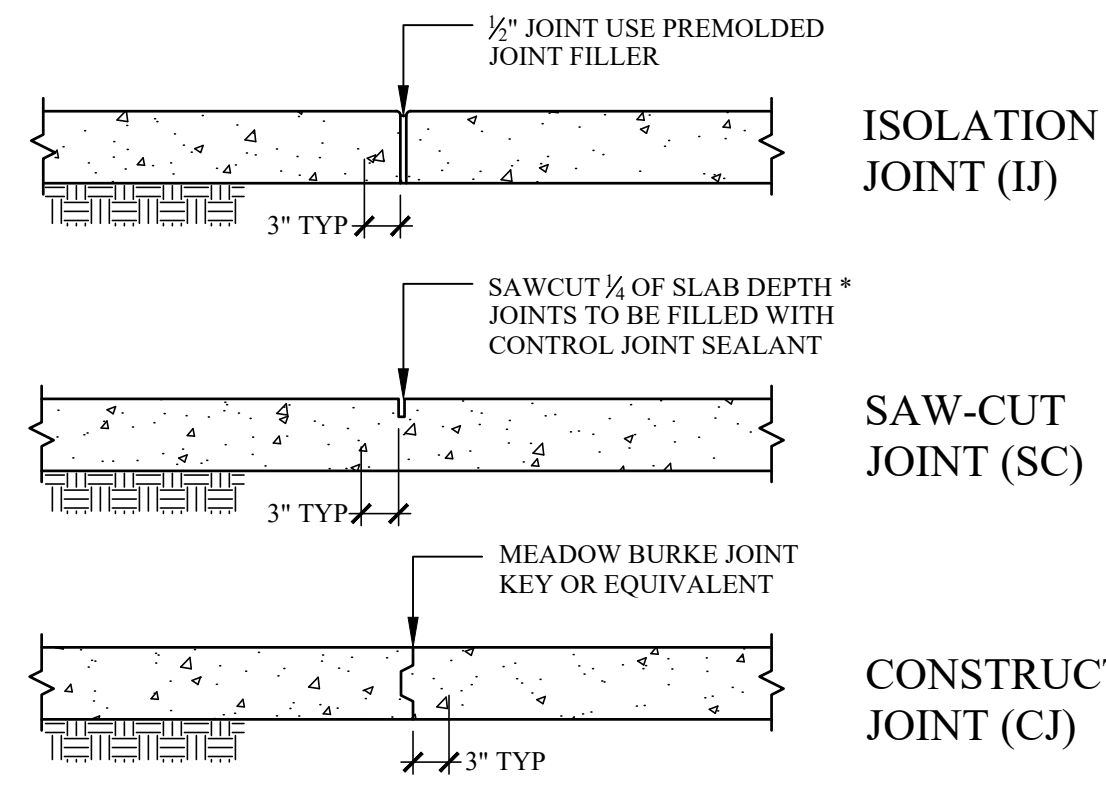
RETAINING WALL DETAILS

DATE: 08/17/2021
PROJECT No.: 21-077
DRAWING BY: AM/JB
CHK BY: GF

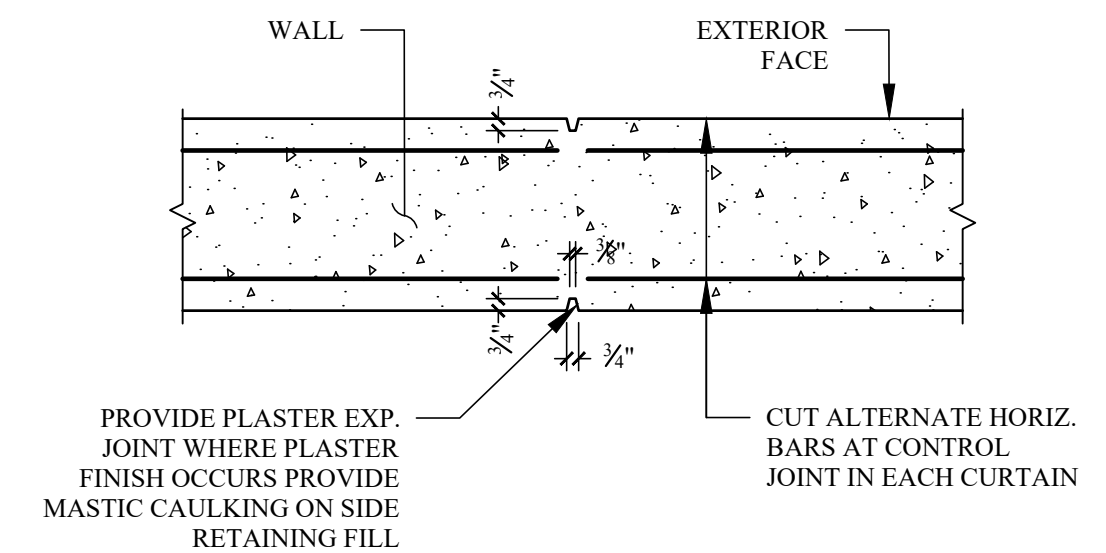
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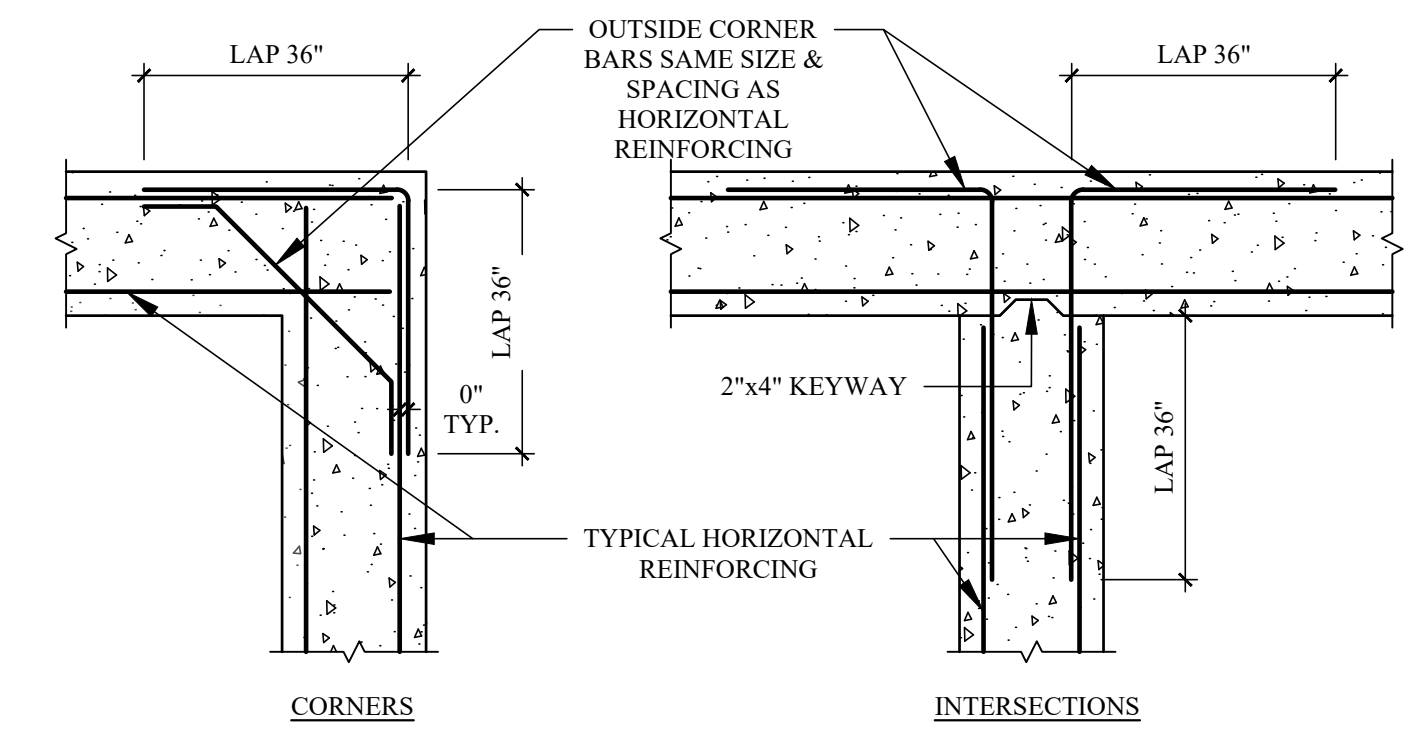
1
TYPICAL SLAB ON GRADE DETAIL
SCALE: 3/4" = 1'-0"



2
SLAB ON GRADE CONTROL JOINTS
SCALE: 3/4" = 1'-0"



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



4
TYP. HORIZONTAL REINFORCING
CONCRETE TIE BEAMS, WALLS, AND FOOTINGS
SCALE: 3/4" = 1'-0"

STANDARD HOOK DETAILS

BAR SIZE	D	180° HOOKS		90° HOOKS	
		A or G	J	A or G	A or G
#3	2 1/2"	5"	3"	6"	6"
#4	3"	6"	4"	8"	8"
#5	3 1/2"	7"	5"	10"	10"
#6	4 1/2"	8"	6"	1'-0"	1'-0"
#7	5 1/2"	10"	7"	1'-2"	1'-2"
#8	6"	11"	8"	1'-4"	1'-4"
#9	9 1/2"	1'-3"	11 1/2"	1'-7"	1'-7"
#10	10 1/2"	1'-5"	1'-1 1/2"	1'-10"	1'-10"
#11	12"	1'-7"	1'-2 1/2"	2'-0"	2'-0"

MIN. LAP SPLICE LENGTH SCHEDULE
f'c=4,000 psi fy=60,000 psi

CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN db. CLEAR COVER NOT LESS THAN db, AND BEAM STIRRUPS OR COLUMN TIES THROUGHOUT LD NOT LESS THAN CODE MINIMUM

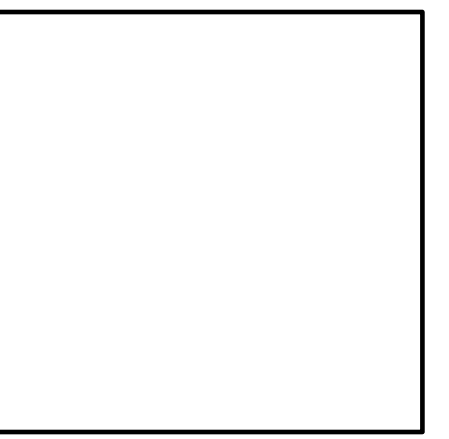
OR

CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2DB AND CLEAR COVER NOT LESS THAN db

Bar size	dc	ld	ld (top bar)	1.3*ld	1.3*ld(top)
#4	0.500	19	25	25	32
#5	0.625	24	31	31	40
#6	0.750	28	37	37	48
#7	0.875	42	54	54	70
#8	1.000	47	62	62	80
#9	1.128	54	70	70	90
#10	1.270	60	78	78	102
#11	1.410	67	87	87	113

Other cases

Bar size	dc	ld	ld (top bar)	1.3*ld	1.3*ld(top)
#4	0.500	28	37	37	48
#5	0.625	36	46	46	60
#6	0.750	43	55	55	72
#7	0.875	62	81	81	105
#8	1.000	71	92	92	120
#9	1.128	80	104	104	136
#10	1.270	90	117	117	153
#11	1.410	100	130	130	170



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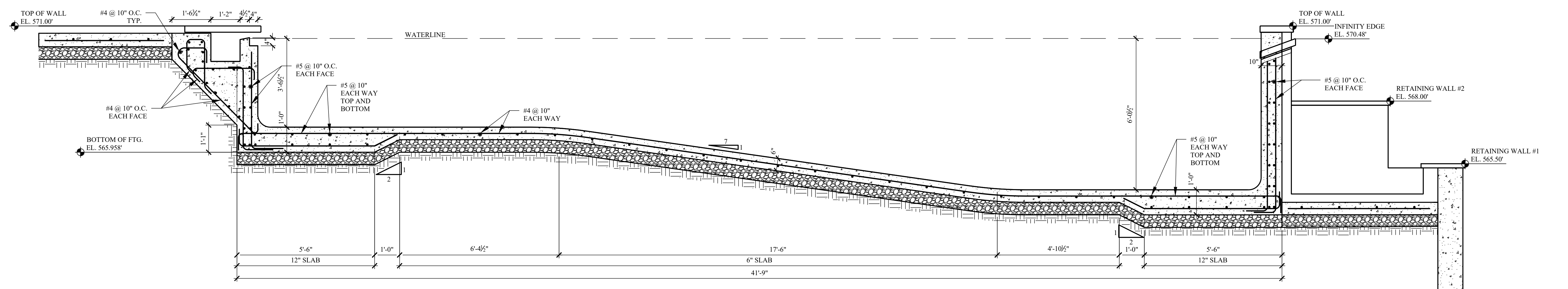
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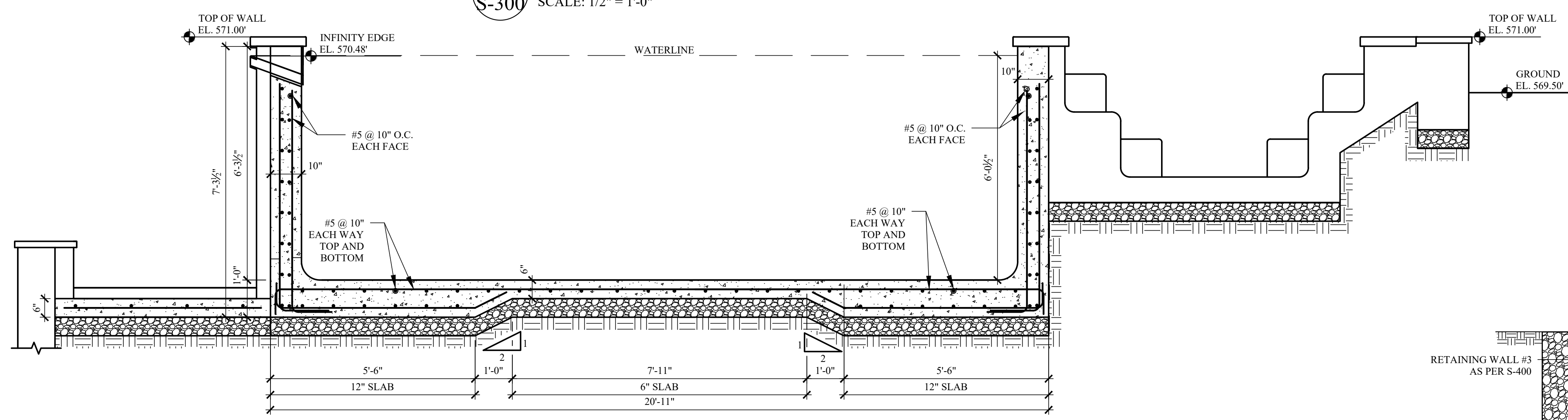
Pool Sections

DATE: 08/17/2021
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 CHK BY: GF
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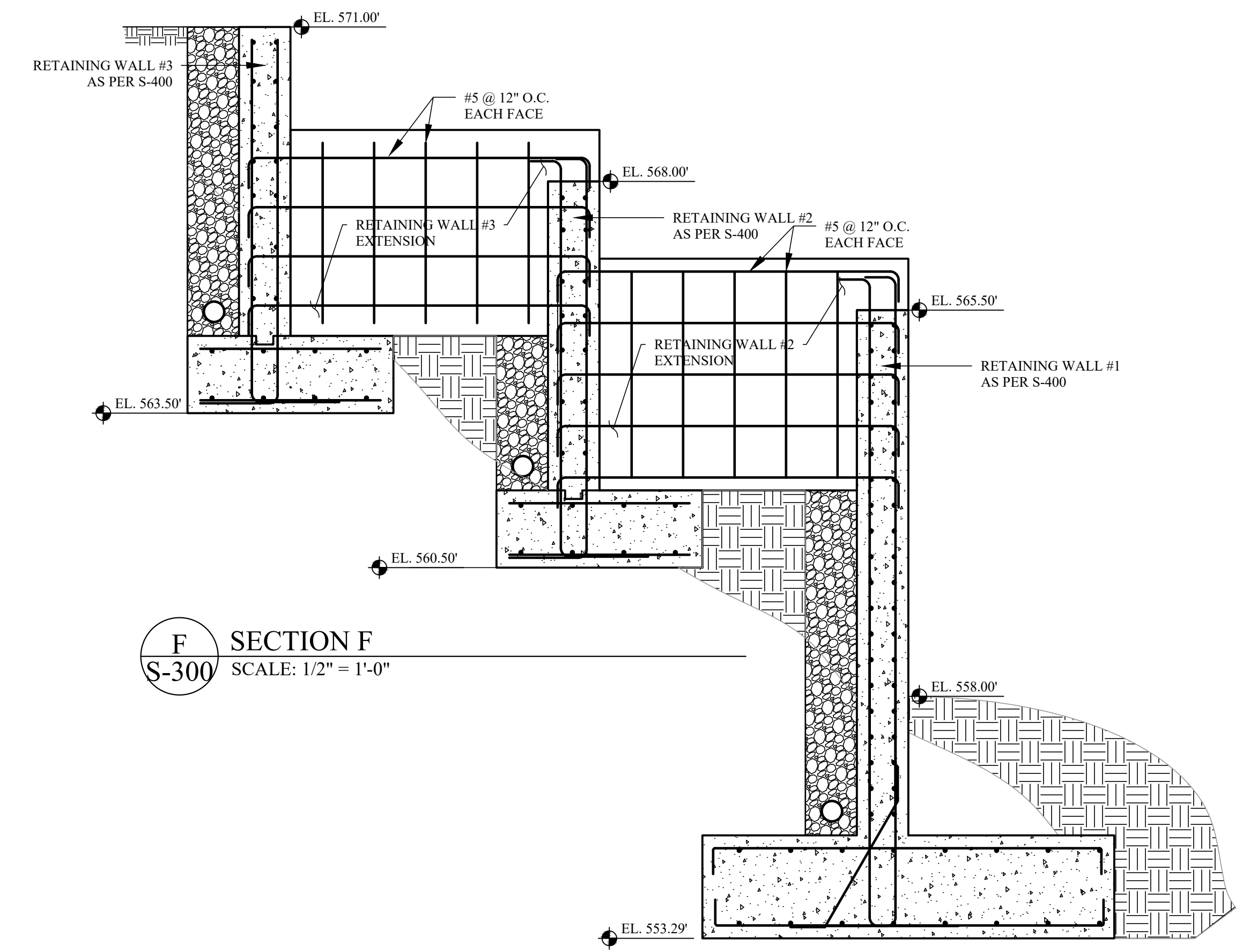
S-410.00



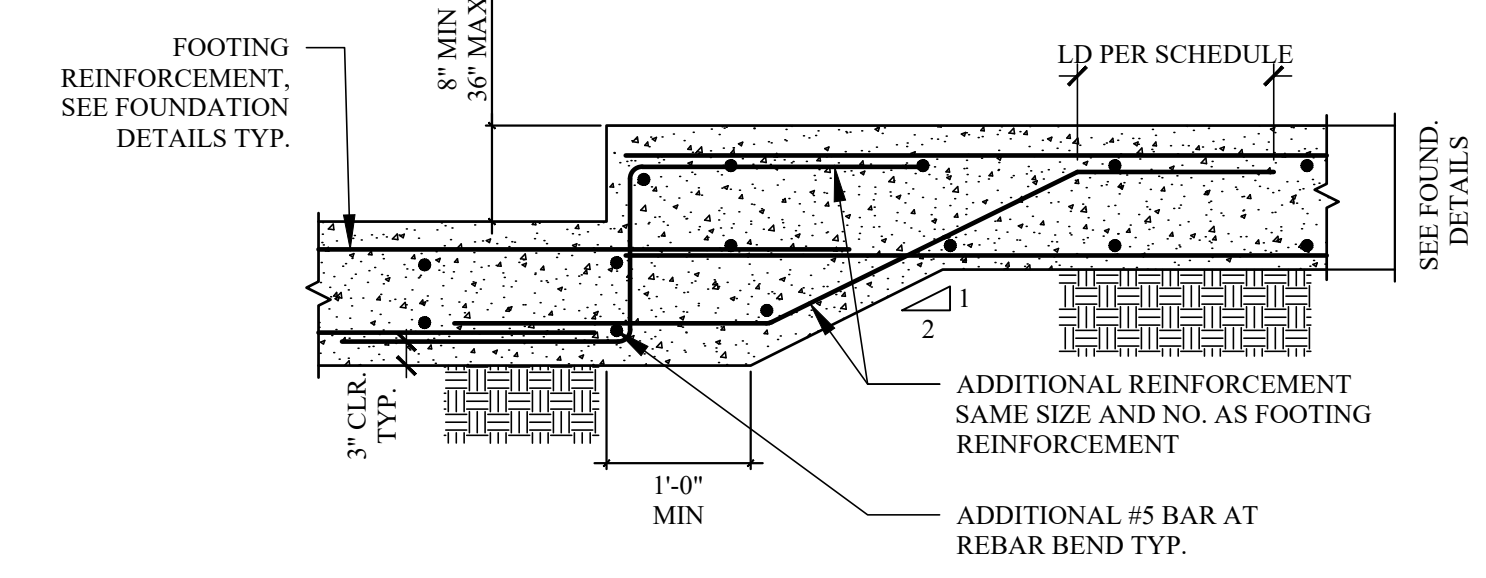
C SECTION C
 S-300 SCALE: 1/2" = 1'-0"



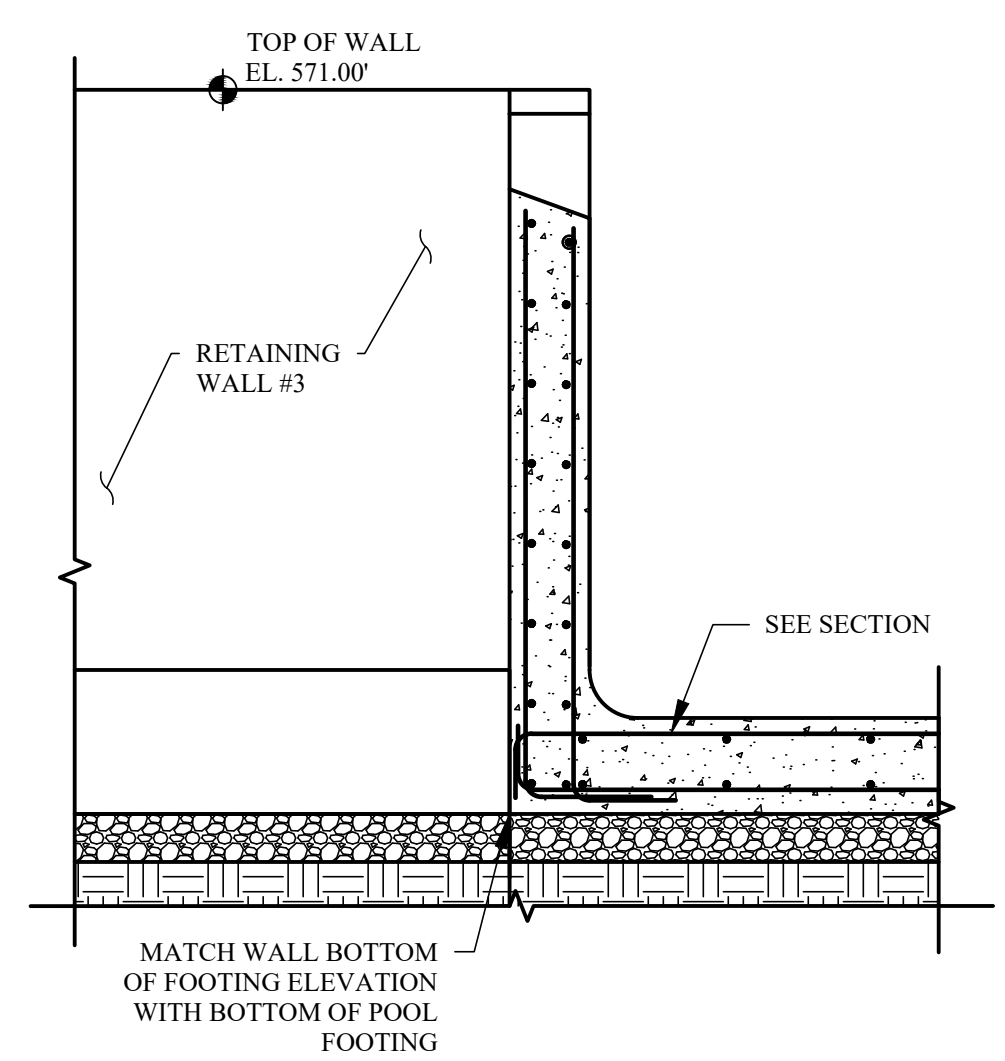
E SECTION E
 S-300 SCALE: 1/2" = 1'-0"



F SECTION F
 S-300 SCALE: 1/2" = 1'-0"



6 DETAIL
 S-300 TYPICAL STEP FOOTING DETAIL
 SCALE: 3/4" = 1'-0"



E SECTION E
 S-300 SCALE: 1/2" = 1'-0"