

GENERAL NOTES

- 1. IN THE CASE OF DISCREPANCIES BETWEEN THE GENERAL NOTES, THE PLANS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL RESPECT THE MOST RESTRICTIVE REQUIREMENTS.
2. NO DIMENSIONS ARE TO BE MEASURED ON THE PLANS, EVEN IF THEY ARE TO SCALE.
3. FOR CONSTRUCTION WORK, THE CONTRACTOR MUST HAVE AND USE A COPY OF THE PLANS ISSUED FOR CONSTRUCTION...
4. THE CONTRACTOR SHALL SUPPLY ALL THE MATERIALS, TOOLS AND WORKFORCE REQUIRED TO COMPLETE THE WORK SHOWN ON THE PLANS TO THE SATISFACTION OF THE ENGINEER...

CONCRETE NOTES

- 1. ALL CONCRETE WORK MUST BE DESIGNED AND PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE CANCSA A23-1 A23.2 A23.3 A23.4 STANDARDS.
2. CONCRETE IS SPECIFIED BY VARIANT 1 - PERFORMANCE-BASED PROCEDURE, AS INDICATED IN THE CSA A23-1 STANDARD. THE CONTRACTOR AND CONCRETE SUPPLIER MUST MEET ALL CERTIFICATION, CALIBRATION AND QUALIFICATION REQUIREMENTS.
3. THE CONTRACTOR AND CONCRETE SUPPLIER MUST ENSURE THAT THE WET CONCRETE PROPERTIES AND CURED CONCRETE PROPERTIES MEET THE SITE REQUIREMENTS FOR HANDLING, PLACING AND FINISHING...

STEEL NOTES

- 1. ALL CASEWORK, STEEL WORK MUST BE DESIGNED, FABRICATED AND EXECUTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE CANCSA S16 STANDARD AND THE NATIONAL BUILDING CODE. BRACING ASSEMBLIES MUST BE IN ACCORDANCE WITH CLAUSE 27 OF CANCSA S16 STANDARD.
2. WELDING WORK: ALL WELDING WORK MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CANCSA S16 STANDARD. WELDS MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE W 1, W59 AND W160 STANDARDS.
3. STEEL GALVANIZATION: HOT-DIP GALVANIZATION IN ACCORDANCE WITH THE LATEST EDITION OF ASTM A123/A123M STANDARD...

SEISMIC LOADS

SEISMIC FORCE RESISTING SYSTEM (SFRS)
SFRS: SYSTEM A CONNECTIONS (2012 CBC CLAUSE 4.1.8.94.1.8.10)
LATERAL LOAD RESISTING SYSTEM
SEISMIC CONNECTED SHEAR WALLS (WOOD-BASED PANELS)
RE + 2.5
RE + 1.7
CSA STANDARD CANCSA-S16-14 APPLICABLE CLAUSES: 27.1-21

SEISMIC PERIOD DATA
2012 CBC CLAUSE 4.1.8.11(1)
[] SINGLE-STORY BUILDING WITH WOOD OR STEEL DIAPHRAGM
[] STEEL MOMENT FRAME
[] BRACED FRAMES
[] SHEAR WALLS: T_seismic = 0.050(1 + 0.04L + 0.012 H)
T_seismic = 1.5 T_seismic(1 + 0.33 H)
L = 6.50m

PROJECT CITY: OTTAWA, ON
SITE CLASS: THE NOTED SITE CLASSIFICATION FOR SEISMIC SITE RESPONSE AND SHEAR WAVE VELOCITY PARAMETERS INDICATED ARE AS REPORTED IN THE GEOLOGICAL REPORT
[] A [] B [] C [] D [] E [] F (SITE SPECIFIC SEISMIC)
HORIZONTAL SHEAR WAVE VELOCITY: NA
RSD: 0.285
RSW: 0.199
RESPONSE SPECTRUM DATA: [] PERFORMED [] NOT PERFORMED

% DAMPED SPECTRAL RESPONSE ACCELERATION VALUES (2012 CBC SUPPLEMENTARY STANDARD SB-1)
Sd(2%) = 0.446
Sd(5%) = 0.240
Sd(10%) = 0.119
Sd(20%) = 0.056
Sd(50%) = 0.015
Sd(100%) = 0.005

DESIGN SPECTRAL RESPONSE ACCELERATION VALUES (DSRAV) (2012 CBC CLAUSE 4.1.8.4)
CLASS 7: (Part 1.06 Pt1.127)
Sd(2%) = 0.475
Sd(5%) = 0.265
Sd(10%) = 0.163
Sd(20%) = 0.079
Sd(50%) = 0.028

CONCLUSION BUILDING IS: [] REGULAR [] IRRREGULAR
DYNAMIC ANALYSIS: [] REQUIRED [] NOT REQUIRED
DYNAMIC PROCEDURE METHOD: [] MODAL RESPONSE SPECTRUM [] NUMERICAL INTEGRATION OF THE HISTORY
ANALYSIS METHOD: [] NA
[] DYNAMIC

TORSIONAL ECCENTRICITY
[] < 0.10 Dm (4.1.8.11(1)(a)) < 0.17 (EQUIV. STATIC FORCE PROCEDURE)
[] < 0.10 Dm (4.1.8.12(a)) > 0.17 > 0.17 (DYNAMIC ANALYSIS)
[] < 0.05 Dm (4.1.8.12(a)) < 0.17 > 0.17 (DYNAMIC ANALYSIS)

STATIC BASE SHEAR COEFFICIENTS (2012 CBC CLAUSE 4.1.8.11)
W = 908 kN
Vmax = Sd(2%) * W / (RSD) = 0.0052W
V = Sd(2%) * W / (RSW) = 0.0960W
Vmax + LARGER OR (3/8) Sd(5%) * W / (RSD) = 0.0745W + 67.6 kN GOVERNS
Mbase = 405.7 kNm

LEGEND:
ADD: ADDITIONAL
ARB: ARBITRARY
ARCH: ARCHITECTURE
(B): CONTINUOUS BENT STEEL BEAM
(B): BOTTOM OF BRP
B.P.L.: BASE PLATE
(c/c): CENTER TO CENTER
CTR: CONSTANT ELEVATION STEEL BEAM
(c/c): (ELEVATION TO CALCULATE)
CIRC.: CIRCULAR
CONT.: CONTINUOUS
CTR: CENTER
C/W: COMPLETE WITH

DIA. or Ø: DIAMETER
DIR: TWO DIRECTIONS
DIA: EACH
D.E: EACH END
E.F: EACH FACE
E.S: EACH SIDE
E.W: EACH WAY
EXIST.: EXISTING
EXT.F.: EXTERIOR FACE
FTG.: FOOTING
GALV. or (G): HOT-DIP GALVANIZED
H.P.: HIGH POINT
HORZ.: HORIZONTAL
IND.: INDICATES
INF.: INFORMATION
INT.F.: INTERIOR FACE
INV.: INVERSE
L.P.: LEFT END
LG. or lg.: LENGTH
L.P.: LOW POINT
LS: MANUFACTURER
L.M.: MOMENT
M.C.: MOMENT CONNECTION
MECH.ELEC. or M&E: MECHANICAL-ELECTRICAL
MN: MINIMUM
MODIFIED PROTOR: MODIFIED PROTOR
NEW or (N): NEW
N.T.S.: NOT TO SCALE
MANU.: PLATE
QTY: QUANTITY
DPT: DESCRIPTION
R.E.: RIGHT END
REM.: REMAIN
SLOPED STEEL BEAM (S): SLOPED STEEL BEAM (ELEVATION TO CALCULATE)
SIM: SIMILAR
S.O.G.: SLAB ON GRADE
STANDARD: STANDARD
S.xx: SHOE, xxx mm HEIGHT
S.VAR.: SHOE, VARIABLE HEIGHT
TOP AND BOT.: TOP AND BOTTOM
T.B.O.: TO BE DETERMINED
T.B.O.S.: TO BE DETERMINED ON SITE
T.O.F.: TOP OF FOOTING
T.O.R.: TOP OF RAFT
T.O.S.: TOP OF STEEL
H.: TYPICAL
U.N.O.: UNLESS NOTED OTHERWISE
VAR.: VARIABLE
VERT.: VERTICAL

EXCAVATION AND FILL NOTES

- 1. BEFORE BEGINNING EXCAVATION WORK, THE CONTRACTOR SHALL CONSULT THE GEOLOGICAL REPORT AND ALL GENERAL NOTES.
2. REFER TO THE GEOLOGICAL REPORTS AND ENVIRONMENTAL STUDIES FOR THE DRAWINGS AND EXISTING EXCAVATION AND FILL MATERIALS.
3. DURING EXCAVATION WORK, THE CONTRACTOR SHALL ENSURE THAT THE SOIL ON SITE IS HOMOGENEOUS AND THAT IT CORRESPONDS WITH THE DESCRIPTION PROVIDED IN THE GEOLOGICAL REPORT.
4. EXCAVATIONS AND EXCAVATION SLOPES SHALL BE IN ACCORDANCE WITH THE OHSA STANDARDS ACCORDING TO THE TYPE OF SOIL INDICATED IN THE GEOLOGICAL REPORT.
5. EXCAVATIONS SHALL BE PERFORMED FOLLOWING RECTILINEAR OUTLINES, WHILE LEAVING SUFFICIENT SPACE FOR FORMWORK INSTALLATION.



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META-003 5000

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Emission-Révision / Issue for Revision:

No.	Date	Description
1	2023.05.31	ISSUED FOR PERMIT

Conçu par / Designed by:
Marc Forques, P.Eng. PE(O) 100078511

Révisé par / Reviewed by:
Marc Forques, P.Eng. PE(O) 100078511

Equipe technique / Technical team:
Mitchel Lavallée

Date / Date: 2022 Echelle / Scale:

Discipline / Discipline: **STRUCTURE**

Titre du feuille / Drawing title:

TYPICAL DETAILS

Numéro de projet / Project number: **META-003** Page #: **S001**

GENERAL

STEEL: Fy = 400 MPa

BAR	TENSION	COMPRESSION
10M	450mm	300mm
15M	700mm	450mm
20M	1000mm	600mm
25M	1500mm	750mm
30M	2000mm	900mm
35M	2100mm	1000mm

MINIMUM REINFORCEMENT SPLICE

OPENING	BRICK ANGLE SIZE
UP TO 150mm	L50x90#8
151 - 190mm	L50x90#8
191 - 210mm	L100x90#8
211 - 240mm	L125x90#8
241 - 270mm	L150x90#10
271 - 360mm	L150x100#10

LOOSE LINTEL SCHEDULE FOR BRICK

BAR LENGTH	NO. OF CHAIRS
8'-0" (2400) OR LESS	3
8'-0" (2400) TO 12'-0" (3600)	4
12'-0" (3600) TO 16'-0" (4800)	5

CHAIRS AT 4'-0" (1200) o/c MAX.

TOP STEEL GALVANIZED OR PLASTIC COVERED CHAIRS

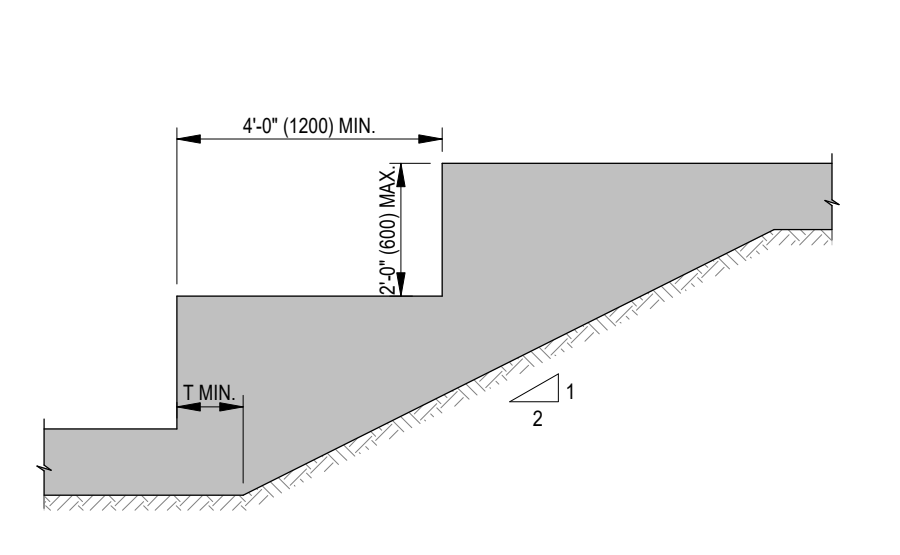
MAIN REINFORCING OR 15M MIN. CHAIR BARS

CHAR

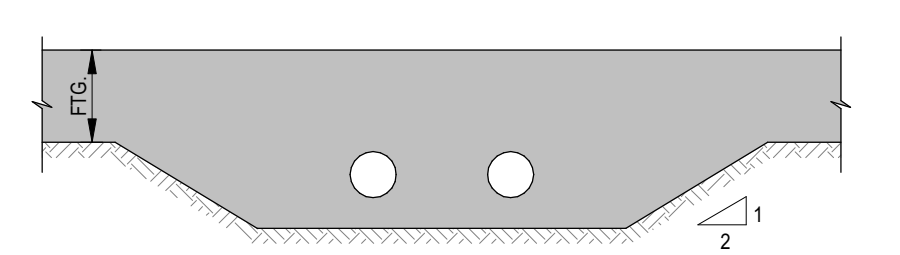
B BOTTOM STEEL PLASTIC BOLSTERS SLABS BOLSTERS @ 4" (100) o/c MAX. 2 OR BEAMS BOLSTERS @ 3" (80) o/c MAX.

TYP. REINFORCING CHAIR SCHEDULE

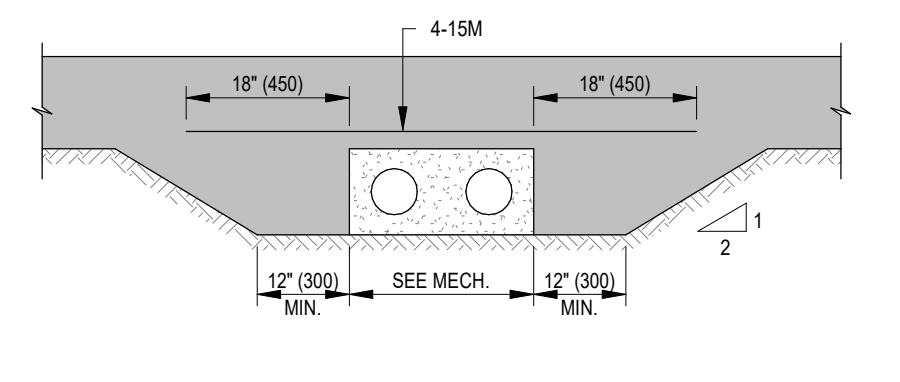
FOOTINGS



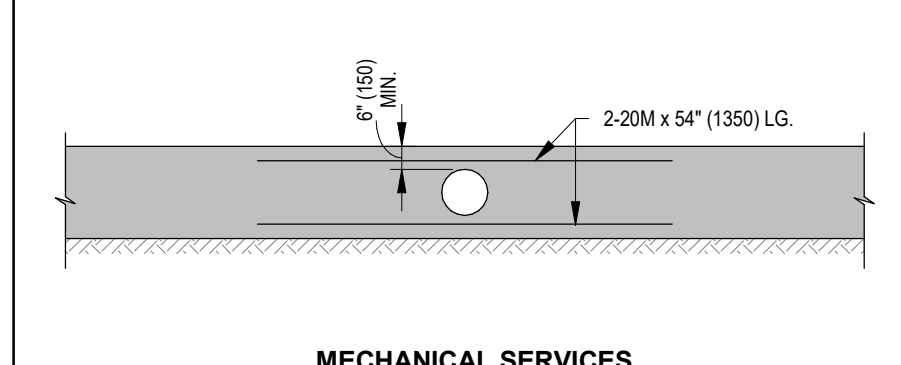
STEP FOOTINGS



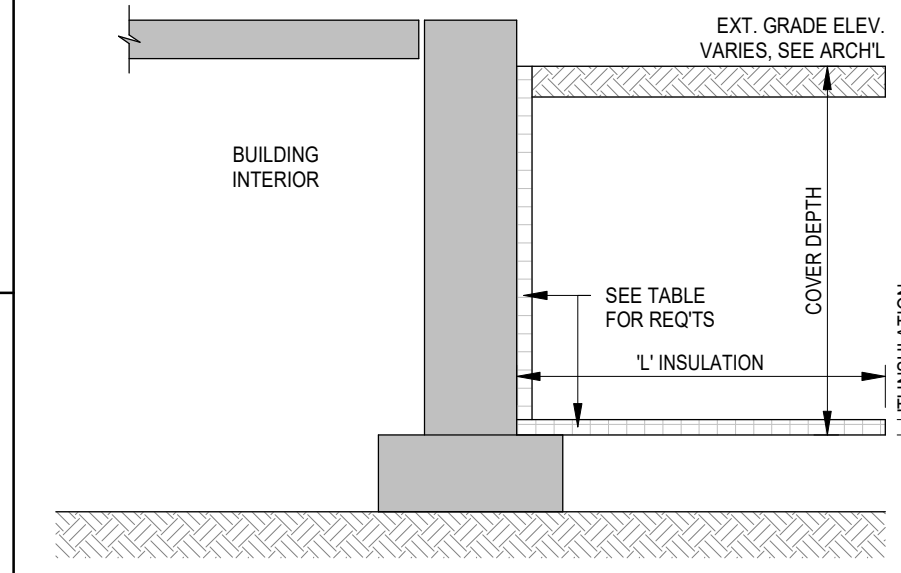
MECHANICAL SERVICES (UNDER FOOTINGS)



MECHANICAL SERVICES TRENCH (UNDER FOOTINGS)



MECHANICAL SERVICES (THROUGH CONTINUOUS STRIP FOOTINGS)



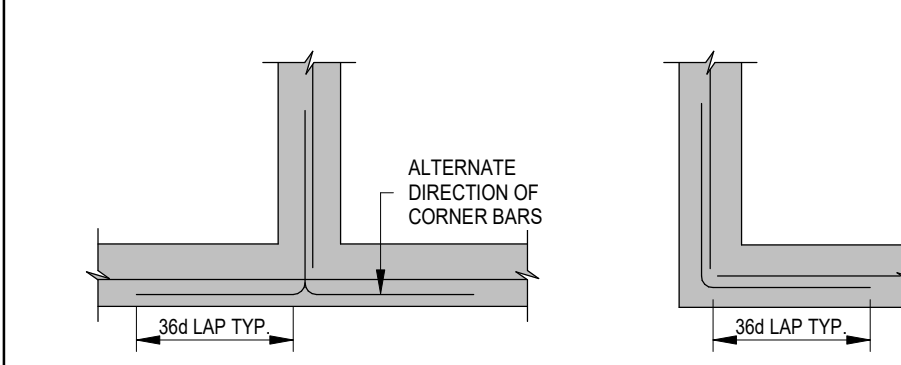
TYPICAL EXTERIOR FOOTING INSULATION DETAIL

CONFIRM WITH GEOTECHNICAL ENGINEER

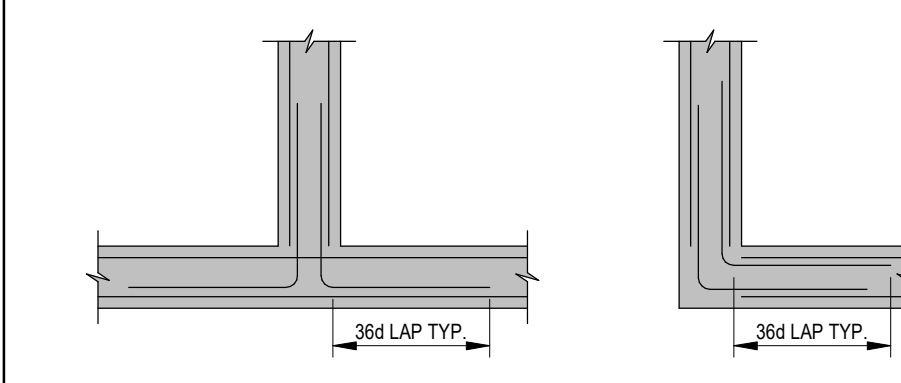
COVER DEPTH (mm)	INSULATION DIMENSIONS	
	L insulation (mm)	T insulation (mm)
LESS THAN 31" (800)	NOT RECOMMENDED	
31" (800) TO 37" (950)	72" (1800)	2" (50)
37" (950) TO 39" (1000)	48" (1200)	2" (50)
39" (1000) TO 48" (1200)	48" (1200)	1.15" (30)
48" (1200) TO 60" (1500)	38" (900)	1" (25)
GREATER THAN 60" (1500)	NOT REQUIRED	

NOTES:
1. CONSULTANT GEOTECHNICAL ENGINEER FOR THERMAL RESISTANCE VALUES OF ACCEPTABLE INSULATION TYPES.
2. INSULATION REQUIRED DOWN OUTSIDE FACE OF FOUNDATION WALL AND OUTSIDE FROM WALL AS SHOWN.
3. ALL EXTERIOR FOOTINGS ARE TO FOLLOW THESE REQUIREMENTS UNLESS DIRECTED OTHERWISE BY GEOTECHNICAL ENGINEER.

WALLS



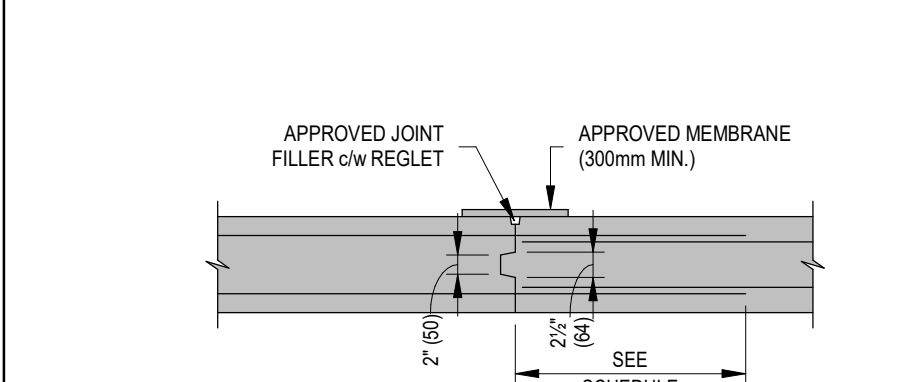
TYPICAL SINGLE LAYER REINFORCED WALL



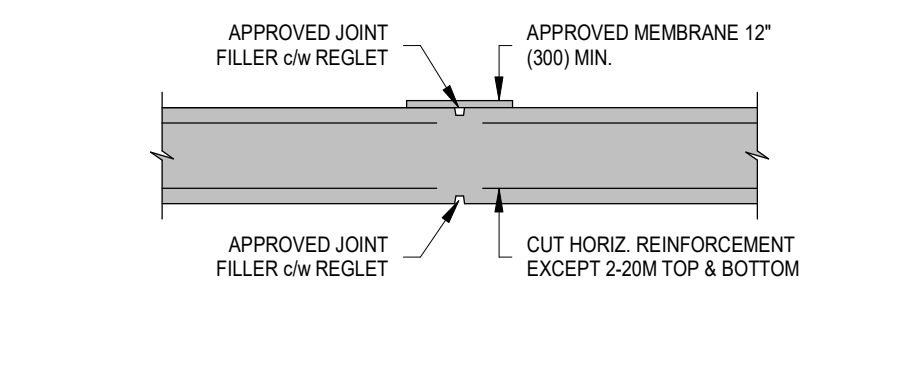
TYPICAL DOUBLE LAYER REINFORCED WALL

SEE PLANS AND SECTION FOR SIZE & REINF. OF WALLS

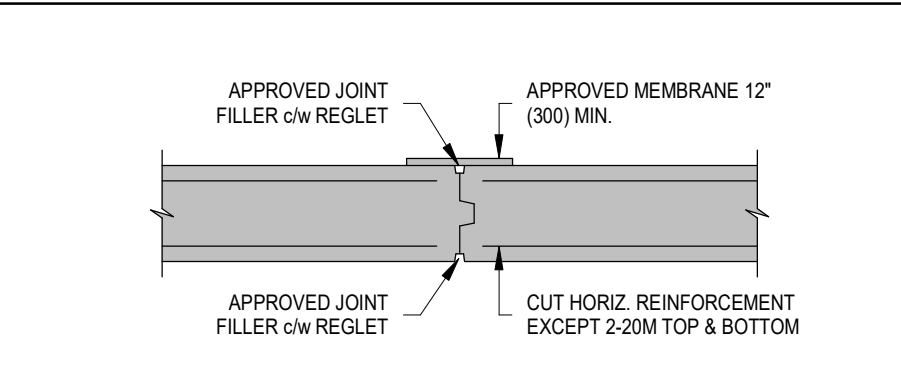
TYP. FDN. WALL INTERSECTION REINFG



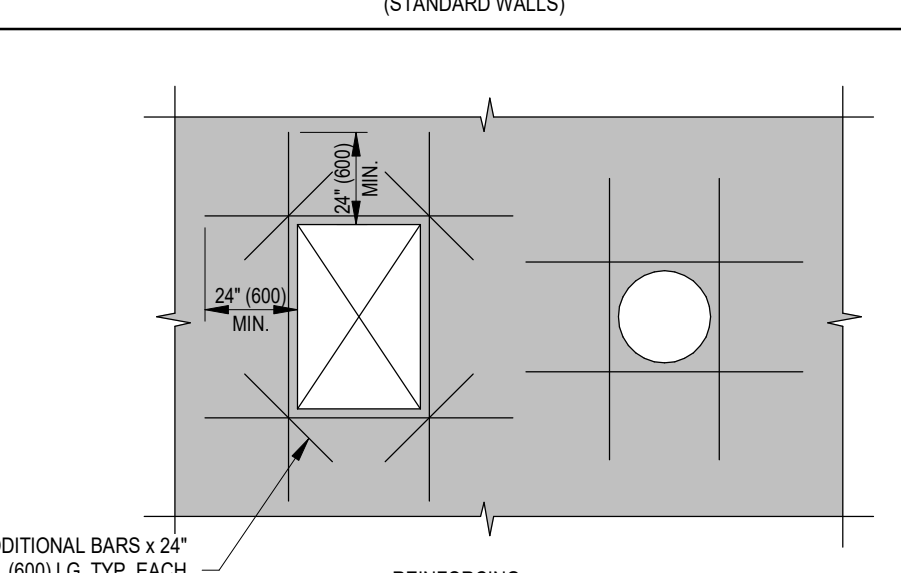
CONSTRUCTION JOINTS (STANDARD WALLS)



CONTROL JOINTS (STANDARD WALLS)

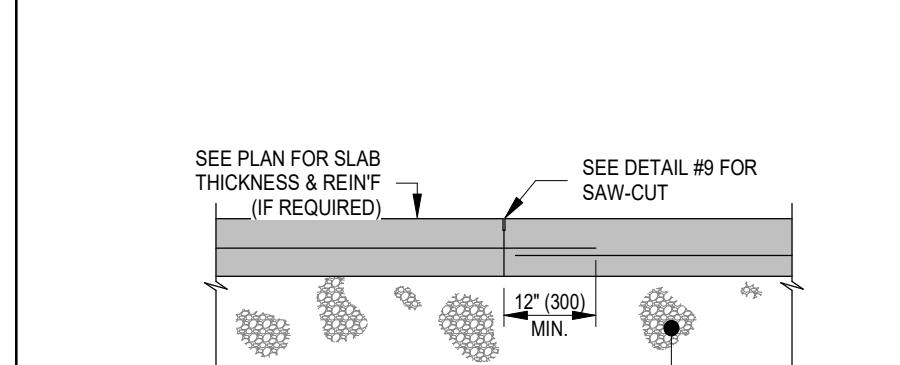


EXPANSION JOINTS (STANDARD WALLS)

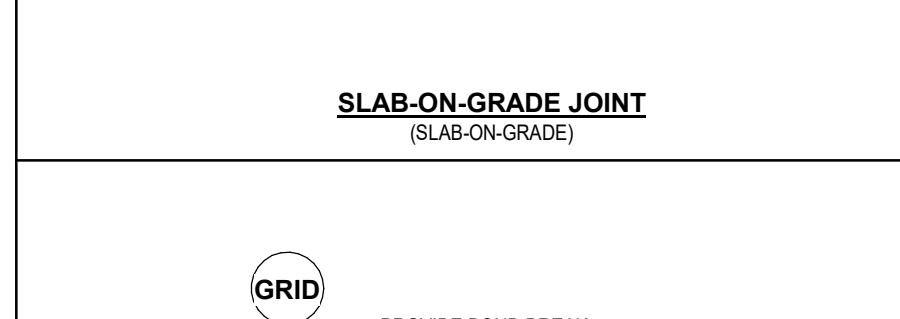


HOLES IN FOUNDATION WALLS

SLAB-ON-GRADE

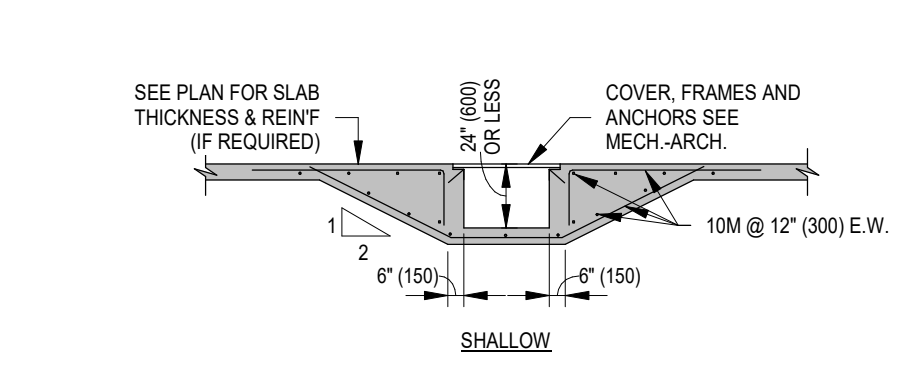


SLAB-ON-GRADE JOINT (SLAB-ON-GRADE)

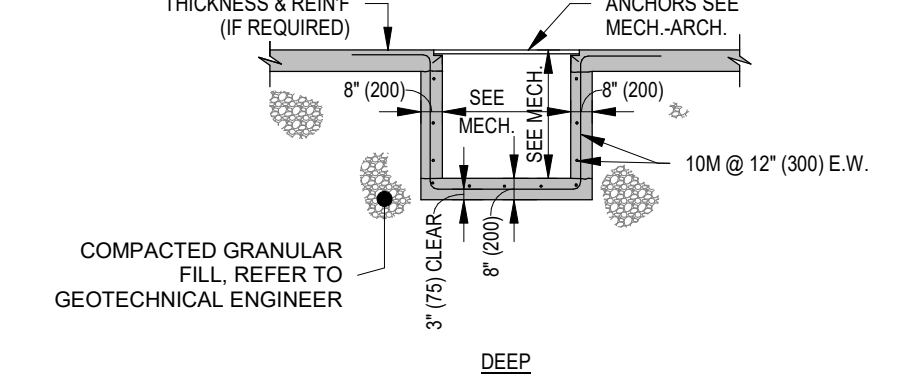


SAW-CUT DETAIL

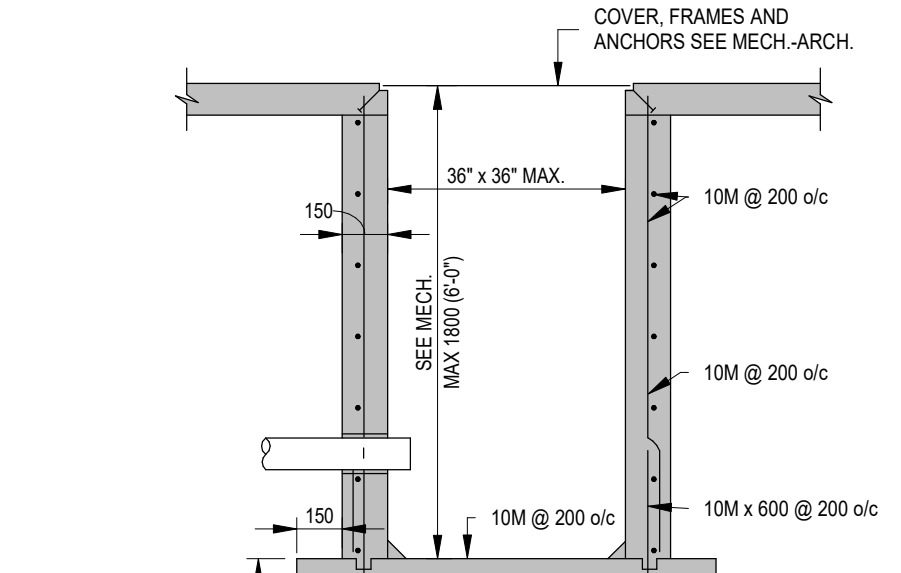
TRENCHES / PITS



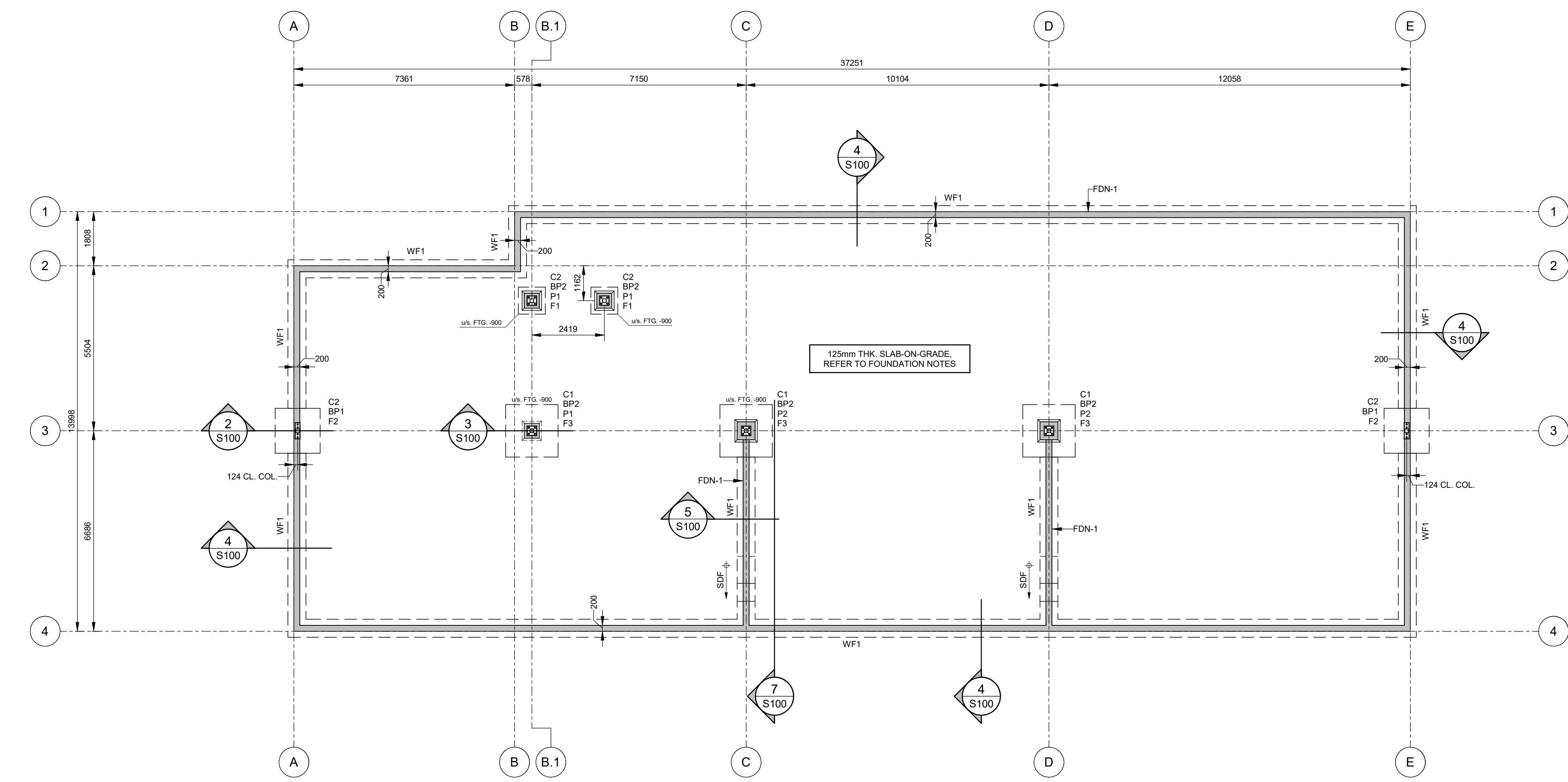
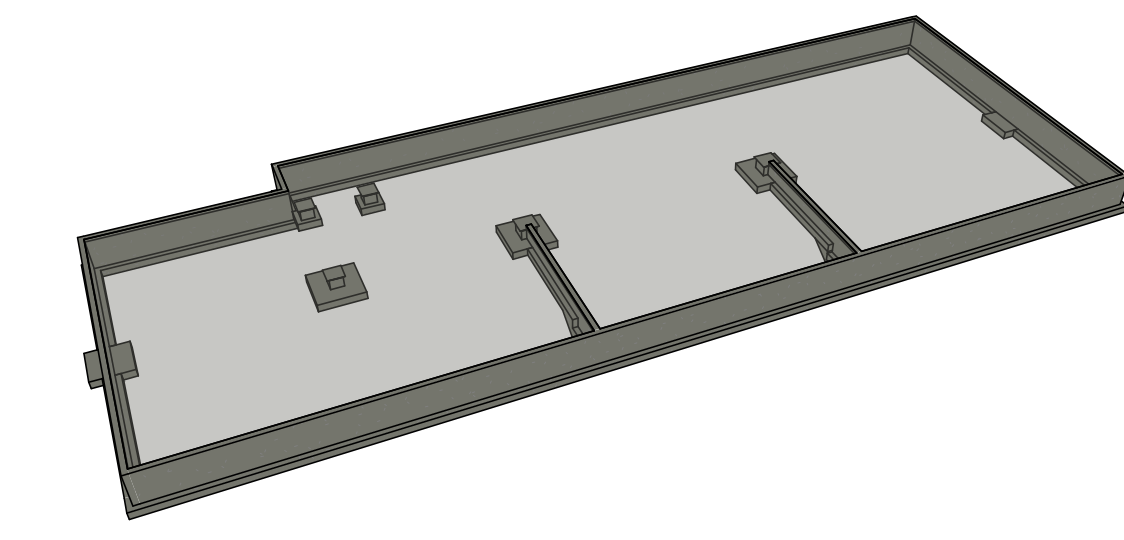
SHALLOW



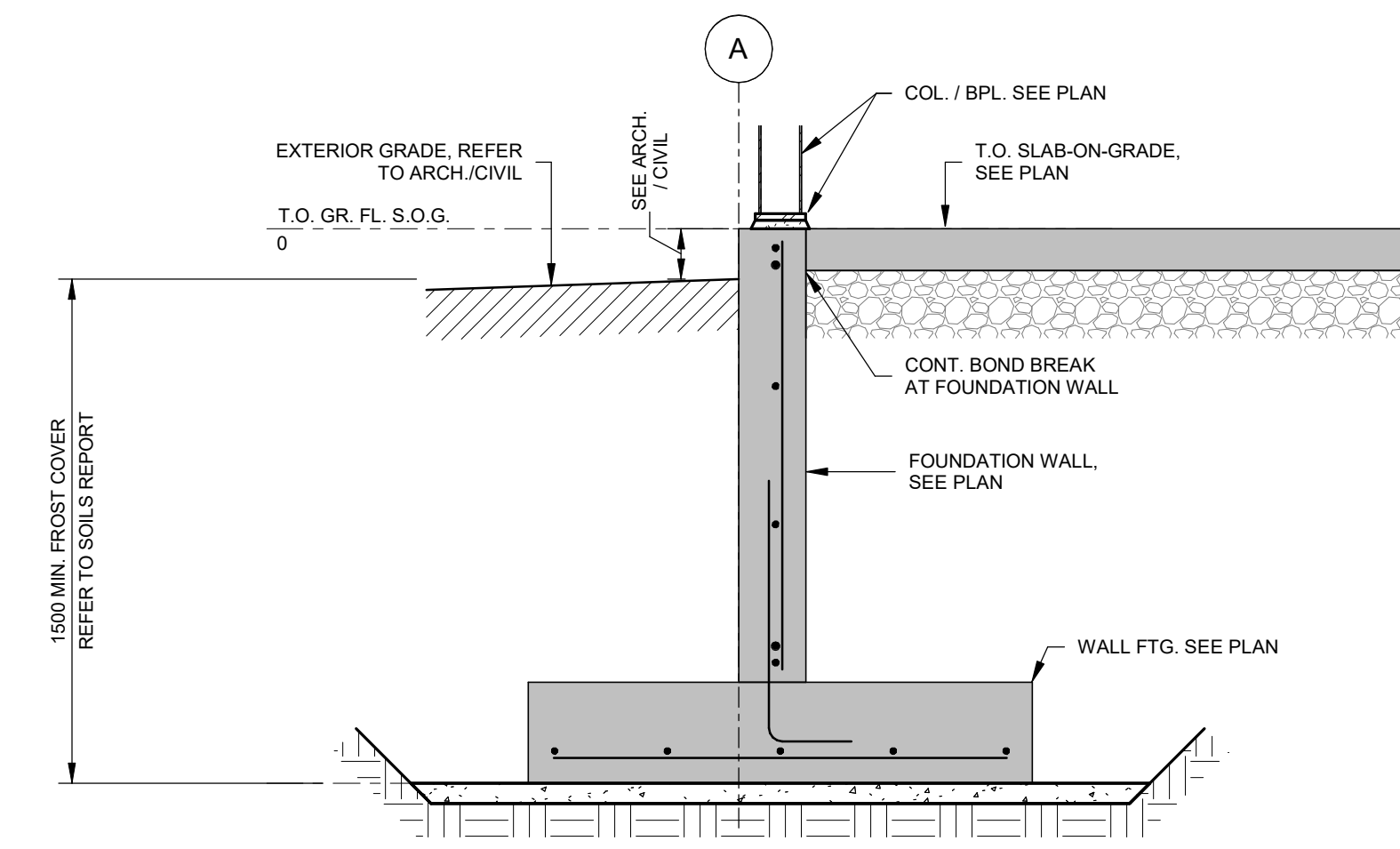
DEEP



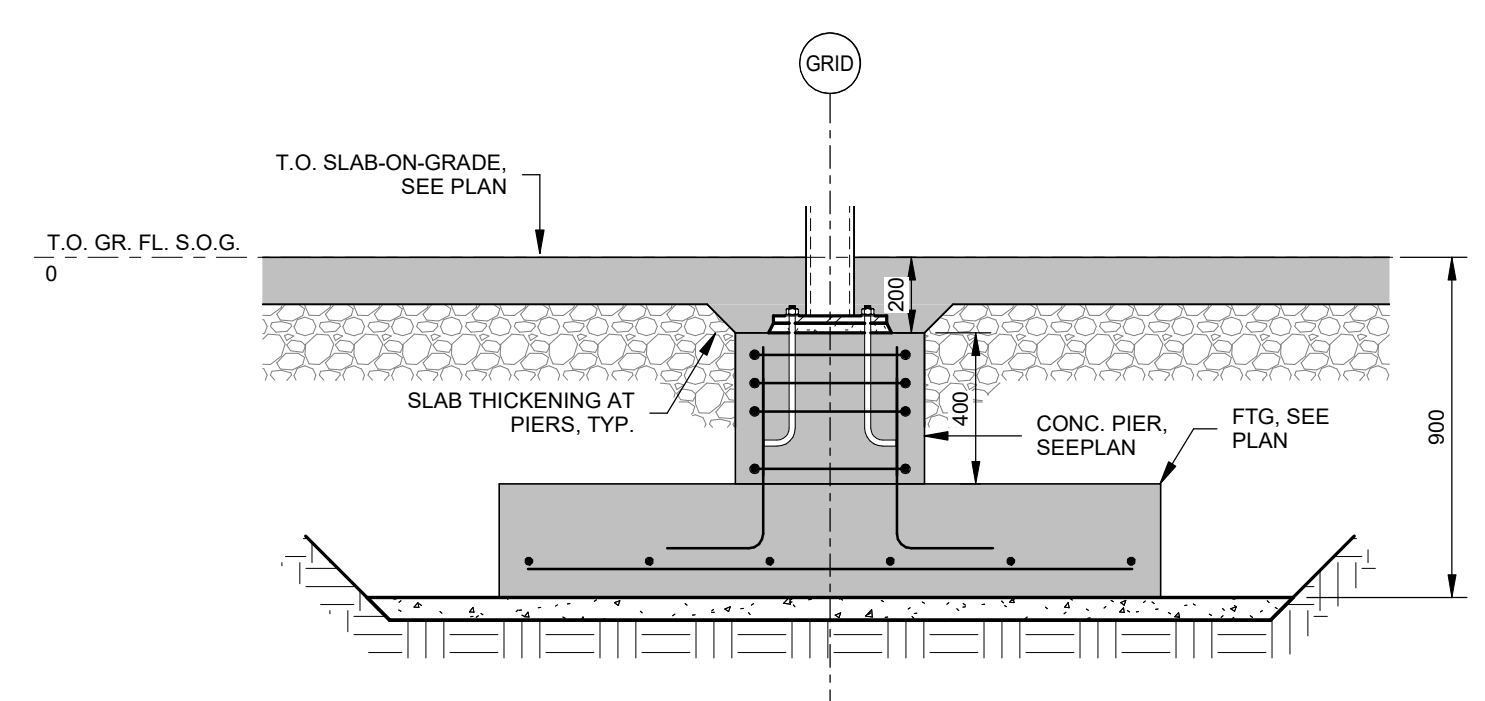
CATCH BASIN, SUMP PIT & OIL INTERCEPTOR



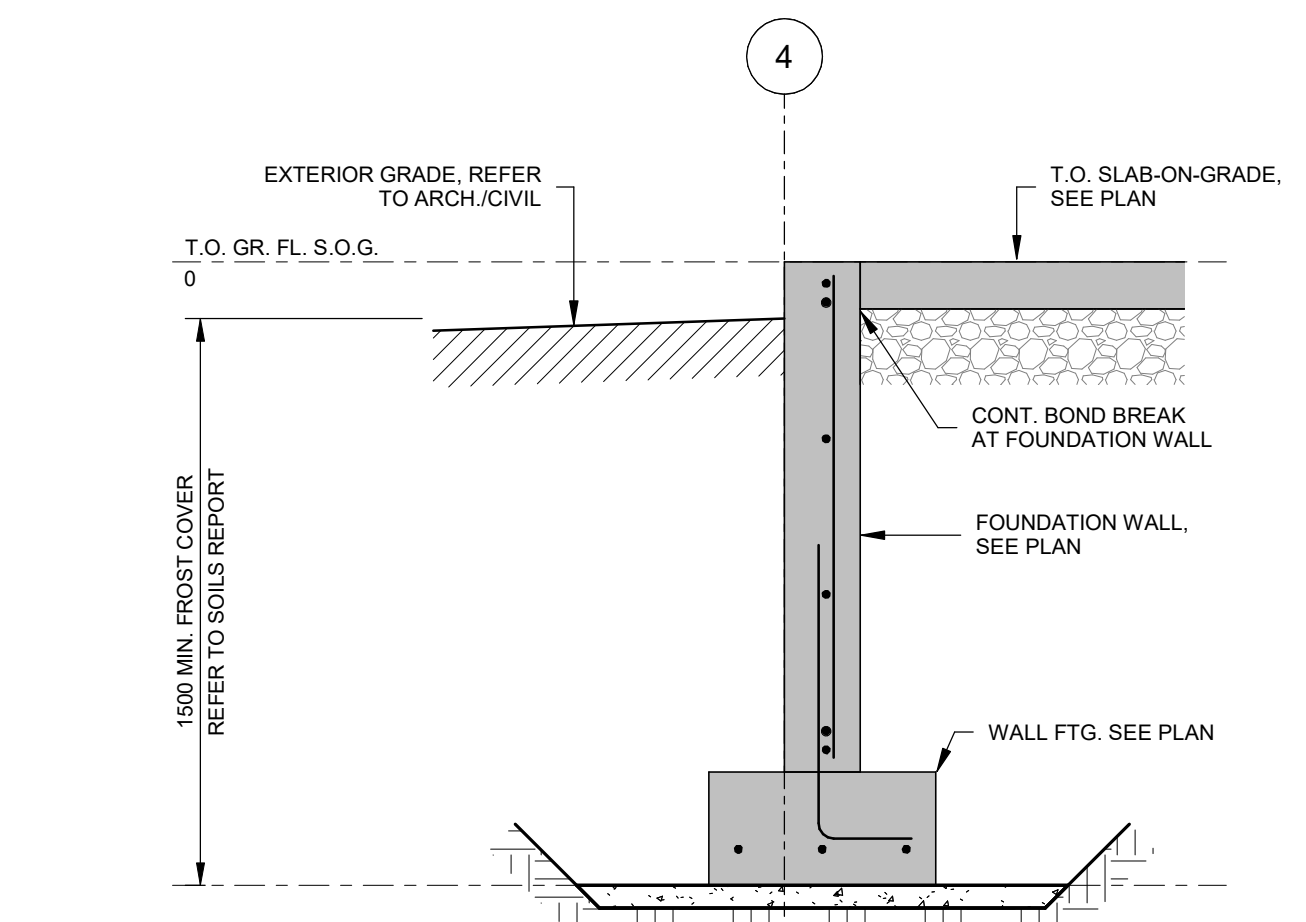
1 FOUNDATION PLAN
 S100 1:100



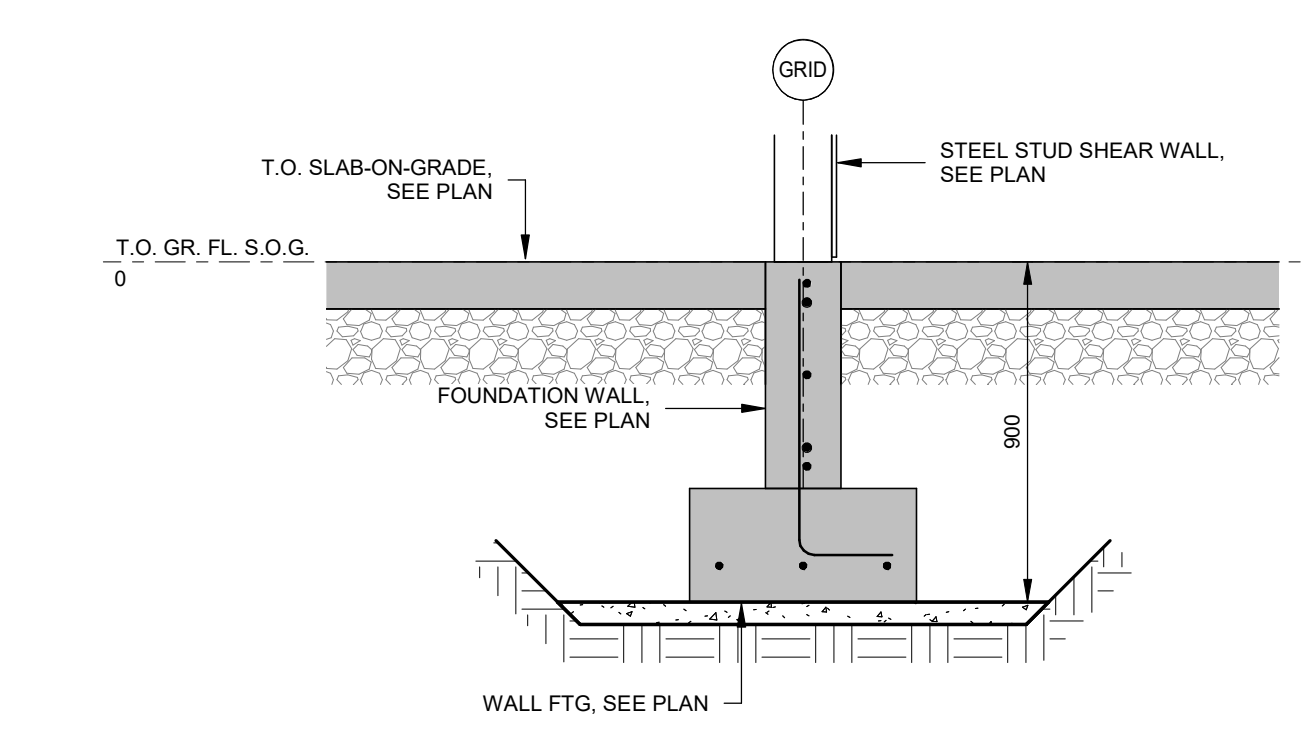
2 SECTION DETAIL
 S100 1:20



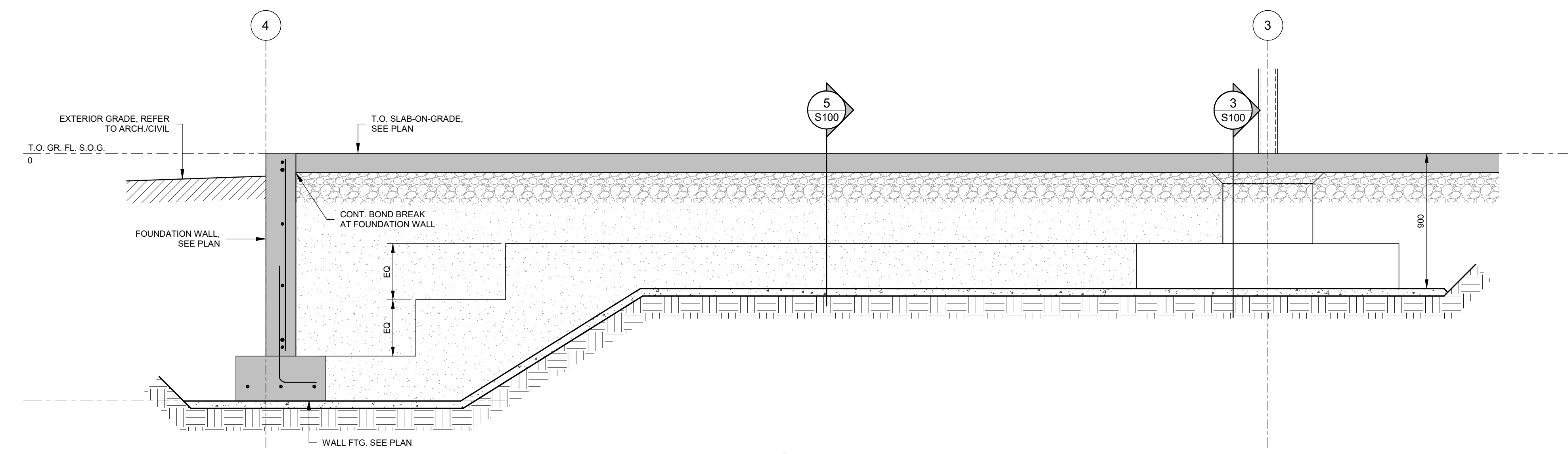
3 SECTION DETAIL
 S100 1:20



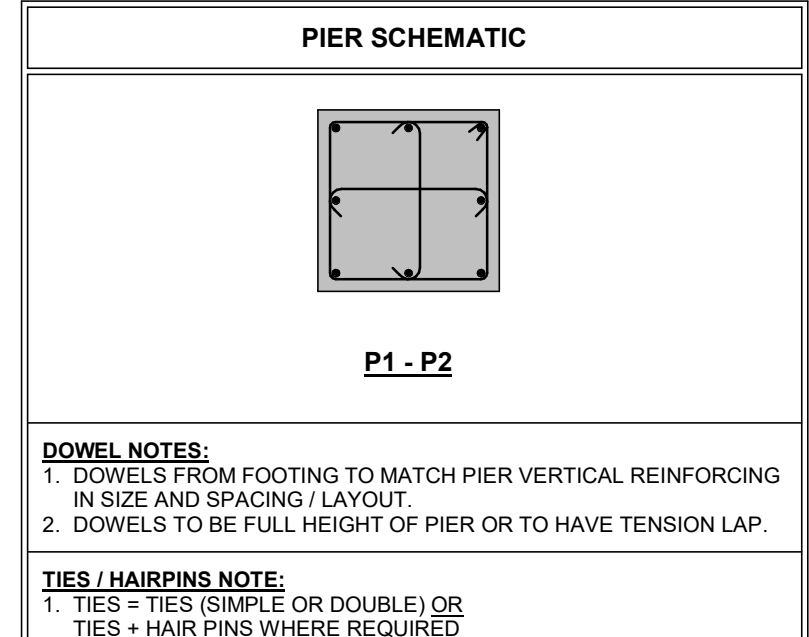
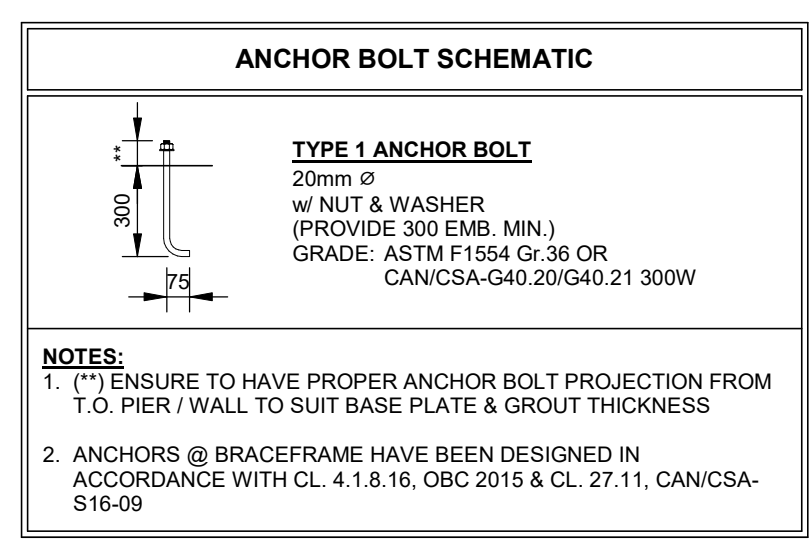
4 SECTION DETAIL
 S100 1:20



5 SECTION DETAIL
 S100 1:20



7 SECTION DETAIL
 S100 1:20



FOUNDATION NOTES

GENERAL:

- SEE '300' SERIES DRAWINGS FOR GENERAL NOTES AND TYPICAL DETAILS
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS

T.O. SLAB-ON-GRADE @ EL. 0.0m, TYP. U.N.O.

SLAB-ON-GRADE:

- FOR NON-REINFORCED CONCRETE SLAB-ON-GRADE TYP. U.N.O.
- CONSULT SOILS ENGINEER FOR COMPRESSION AND COMPACTION OF SOILS SUPPORTING SLAB-ON-GRADE.
- SAW-CUT NEW SLAB-ON-GRADE AT SPACING NOT TO EXCEED 3.0m (12'0") IN EACH DIRECTION @ 400x2 (1400) MAX PER PANEL.
- PROVIDE SLOPES TO FLOOR DRAINS IN CONCRETE SLABS WHERE & IS REQUIRED, REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

FOUNDATION WALLS:

- T.O. FOUNDATION WALL @ EL. 0.0m, TYP. U.N.O.

FOOTINGS:

- SEE '300' DRAWING AND SOILS REPORT FOR ELEVATIONS AND FOR SOILS CAPACITY REQUIREMENTS, U.S. OF FOOTING EL. VARIES, SEE PLAN
- PROVIDE DOWELS IN FOOTINGS FOR PIERS, & FOUNDATION WALL ABOVE, MATCH NUMBER, SIZE & SPACING IN PIER & FOUNDATION WALLS U.N.O.
- ALL FOOTINGS TO BE CENTRED ON COLUMNS & FOUNDATION WALLS U.N.O.

PIERS:

- T.O. INTERIOR PIERS @ EL. -200mm TYP. U.N.O.
- ALL PIERS TO BE CENTRED ON COLUMNS U.N.O.

SCHEDULE - STEEL COLUMN

MARK	DESCRIPTION
C1	HSS 127x17x4.5
C2	HSS 127x17x6.4

SCHEDULE - BASEPLATE

MARK	DESCRIPTION	ANCHORS	COMMENTS
BP1	1500x300	(4) TYPE 1	ult. BPL -225mm
BP2	300x300x25	(4) TYPE 1	ult. BPL -225mm

SCHEDULE - FOOTING

MARK	SIZE	REINFORCING	COMMENTS
F1	900 x 900 x 300 DP	3-15M BOT. E.W.	-
F2	1500 x 1500 x 300 DP	6-15M BOT. E.W.	-
F3	1750 x 1750 x 300 DP	6-15M BOT. E.W.	-
WF1	600 WIDE x 300 DP	2-15M BOT. CONT.	-

SCHEDULE - FOUNDATION WALL

MARK	WIDTH	CONT. TAB REINF.	VERT. REINF.	HORIZ. REINF.	DWLS
FDN-1	200	2-15M TAB CONT.	15M @ 400 o/c V. CL.	15M @ 400 o/c H. CL.	15M @ 400 o/c

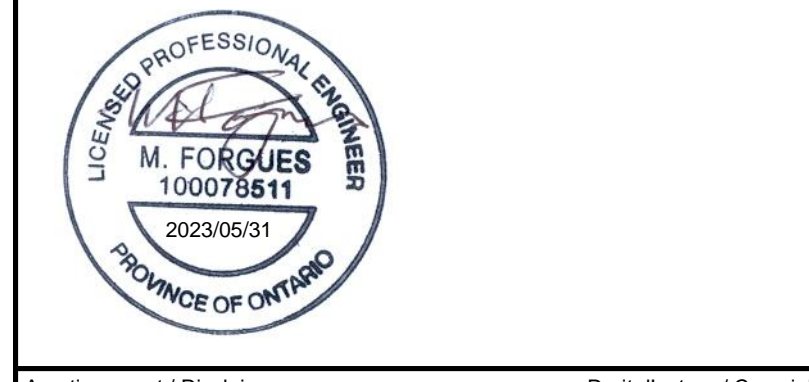
SCHEDULE - PIER

MARK	SIZE (mm)	VERT. REINF.	TIES	ADDL. TIES	DOWELS	COMMENTS
P1	500 x 500	6-15M	10M @ 200 o/c	+ 2-10M @ 75 o/c TOP	8-15M	-
P2	600 x 600	8-15M	10M @ 200 o/c	+ 2-10M @ 75 o/c TOP	8-15M	-

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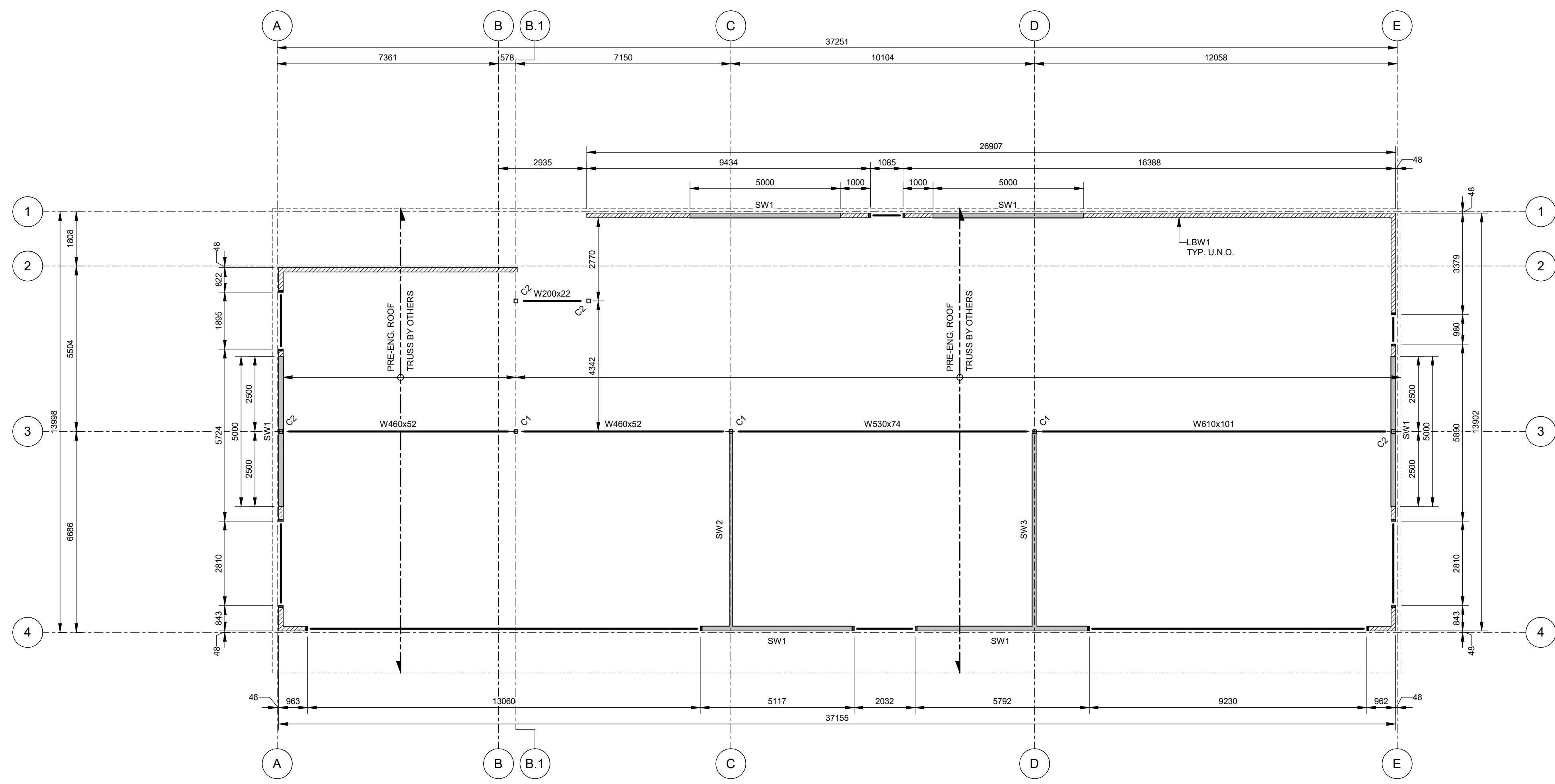


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Emission-Revision / Issue For-Revision:

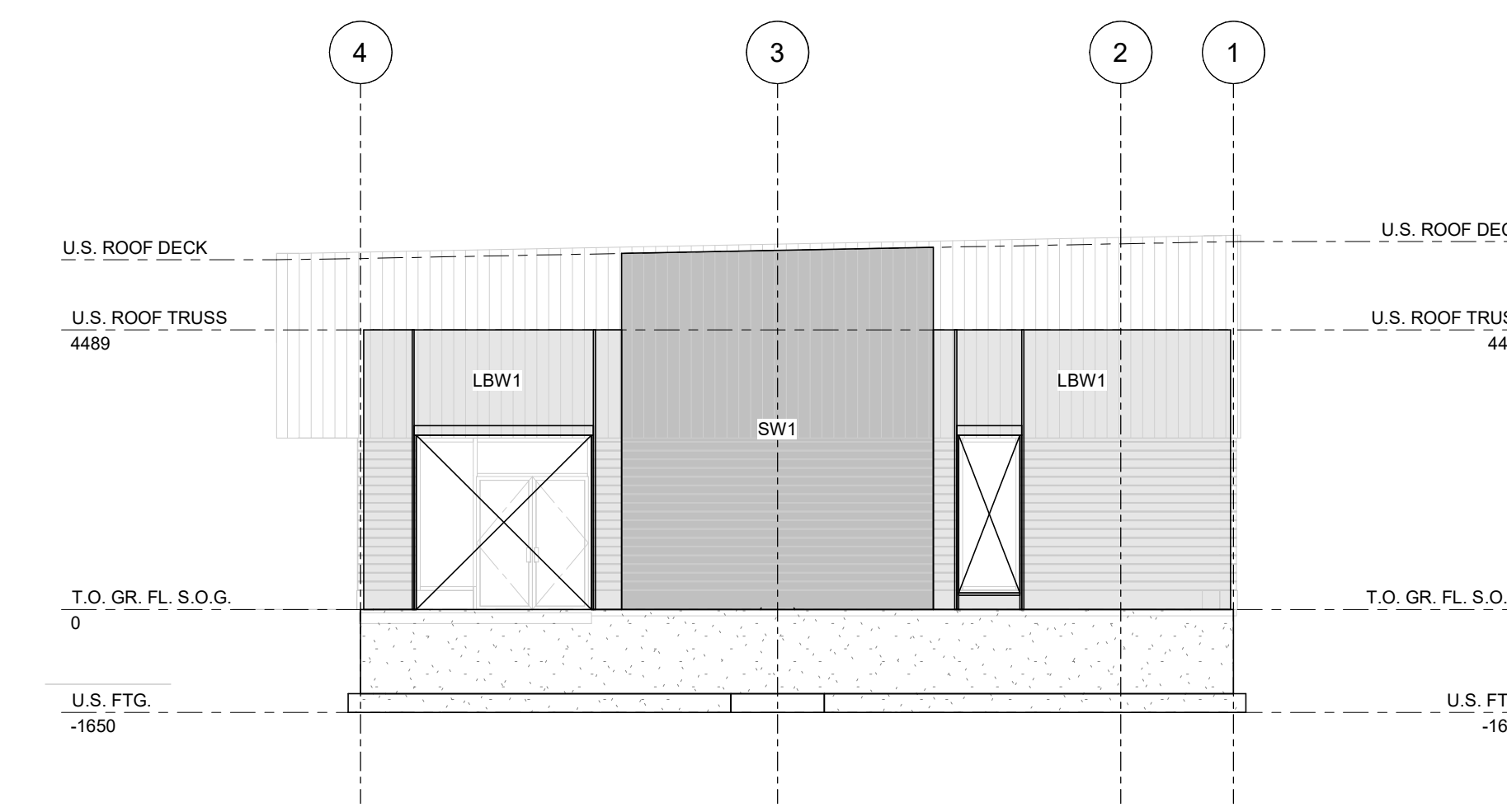
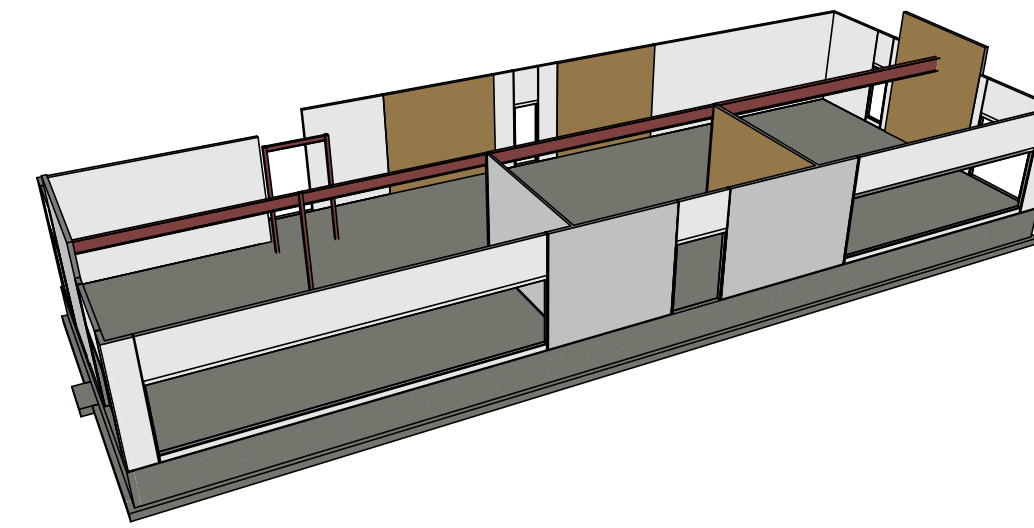
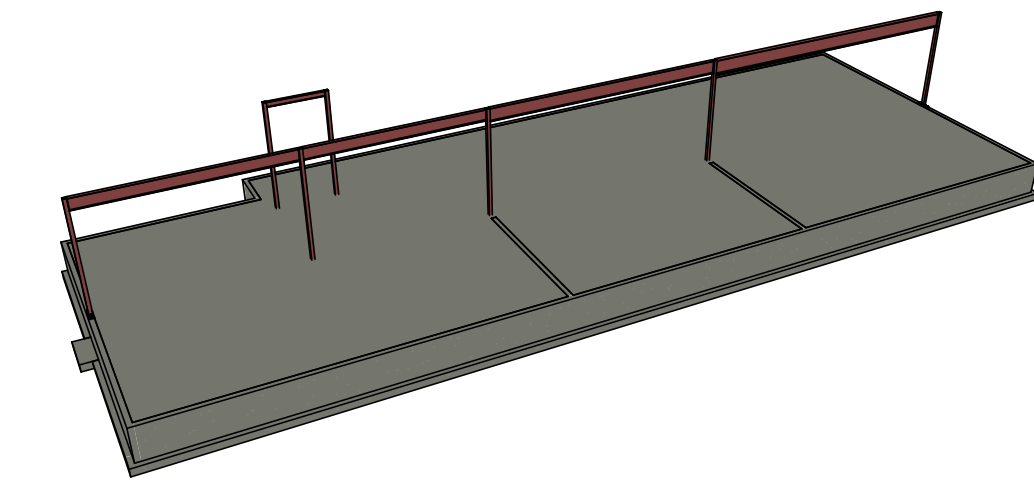
Conçu par / Designed by: Marc Forques, P.Eng. PE(O) 100078511
Revisé par / Reviewed by: Marc Forques, P.Eng. PE(O) 100078511
 Equipe technique / Technical team: Michel Lavalée
 Date / Date: 2022
 Echelle / Scale: AS INDICATED
 Discipline / Discipline: STRUCTURE
 Titre du feuille / Drawing title: FOUNDATION, GROUND FLOOR PLANS AND EXTERIOR WALL ELEVATIONS

Numéro de projet / Project number: META-003
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S100

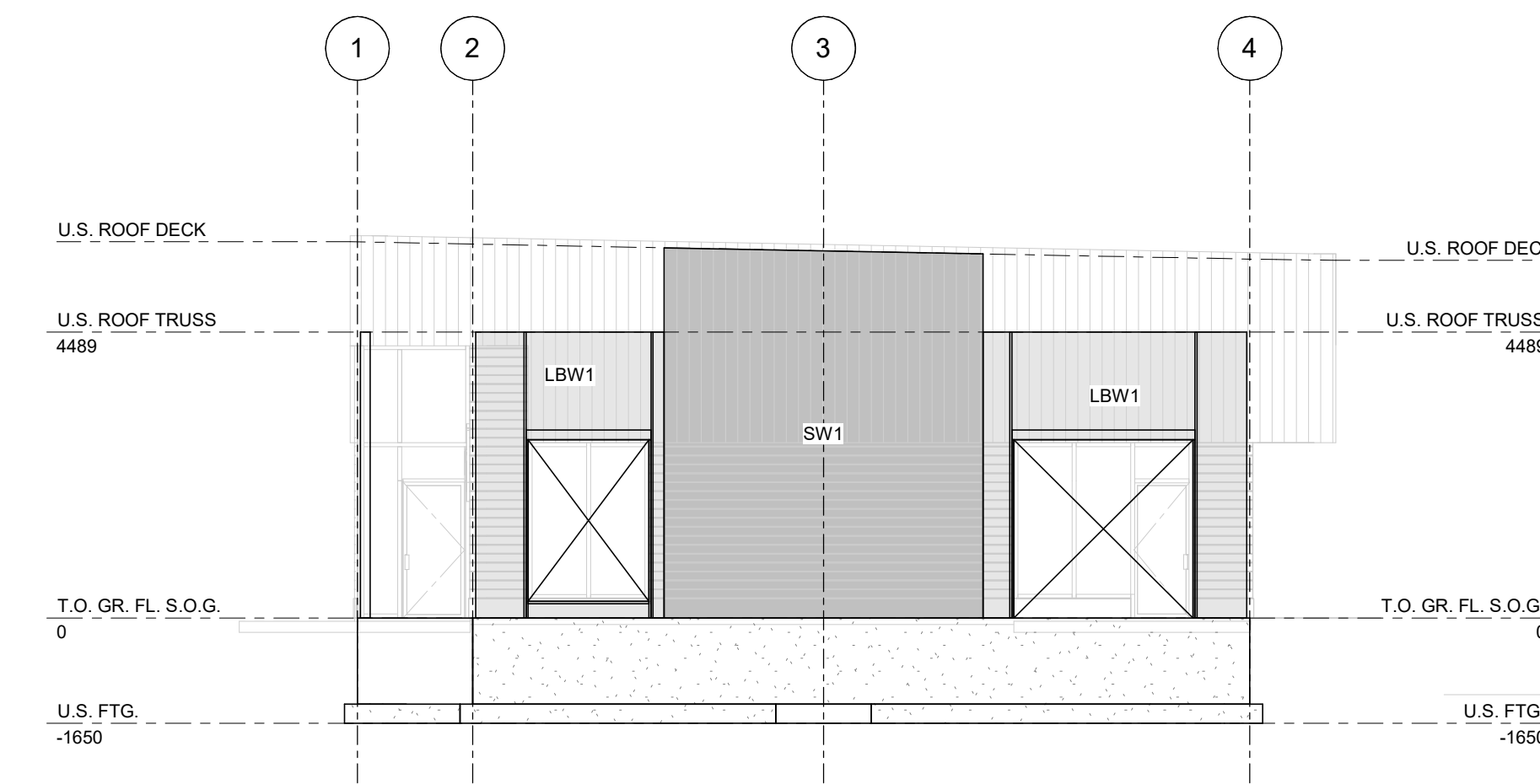


1 GROUND FLOOR LOAD BEARING WALL LAYOUT
S101 1:100

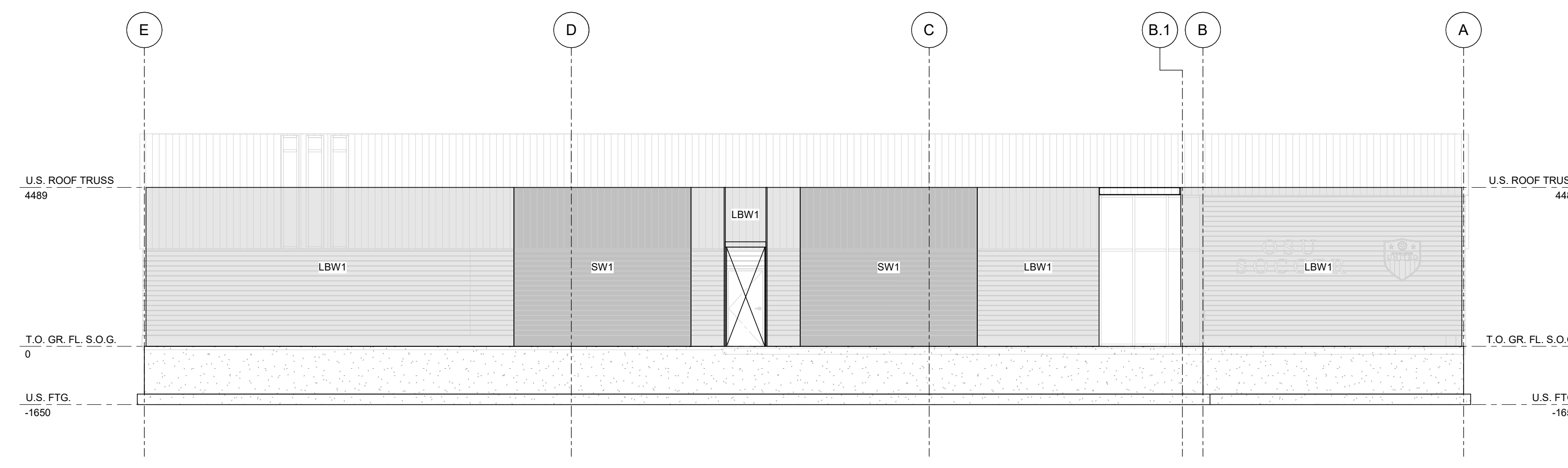
ROOF NOTES	
MAIN ROOF (3) STEEL DECK	
TOP OF STEEL STUD TRUSS EL. @ H.P.T. = SEE ARCH TOP OF STEEL STUD TRUSS EL. @ H.P.T. = SEE ARCH (T.O. STEEL STUD TRUSS = UNDERSIDE OF STEEL DECK)	
STEEL DECK 30mm x 1.2mm P3015 GALV. STEEL DECK U.N.O. (SEE ARCH. FOR PAINTING (IF REQUIRED))	
FASTENERS TO STEEL SUB JOISTS #10 SCREWS FASTENED AS SPOLOW. #15/7 @ SHEAR WALLS #15/4 @ OTHER WALLS	
SIDLAPS #10 SCREWS @ 600 o.c.	
ROOF TRUSSES PRE-ENGINEERED STEEL STUD TRUSSES BY OTHERS WITH VARIABLE SLOPED TOP CHORD.	
PERIMETER CLOSURE ANGLE L64X84X5.4	
DESIGN LOADS: DEAD LOAD = 1.00 kPa SNOW LOAD = 2.32 kPa	
GENERAL NOTES: REFER TO S100 DRAWINGS FOR GENERAL NOTES AND TYPICAL DETAILS. REFER TO ARCH. DRAWINGS FOR DIMENSIONS AND ELEVATIONS. REFER TO ARCH. DRAWINGS FOR ADDITIONAL SLOPED INSULATION REQUIREMENTS.	



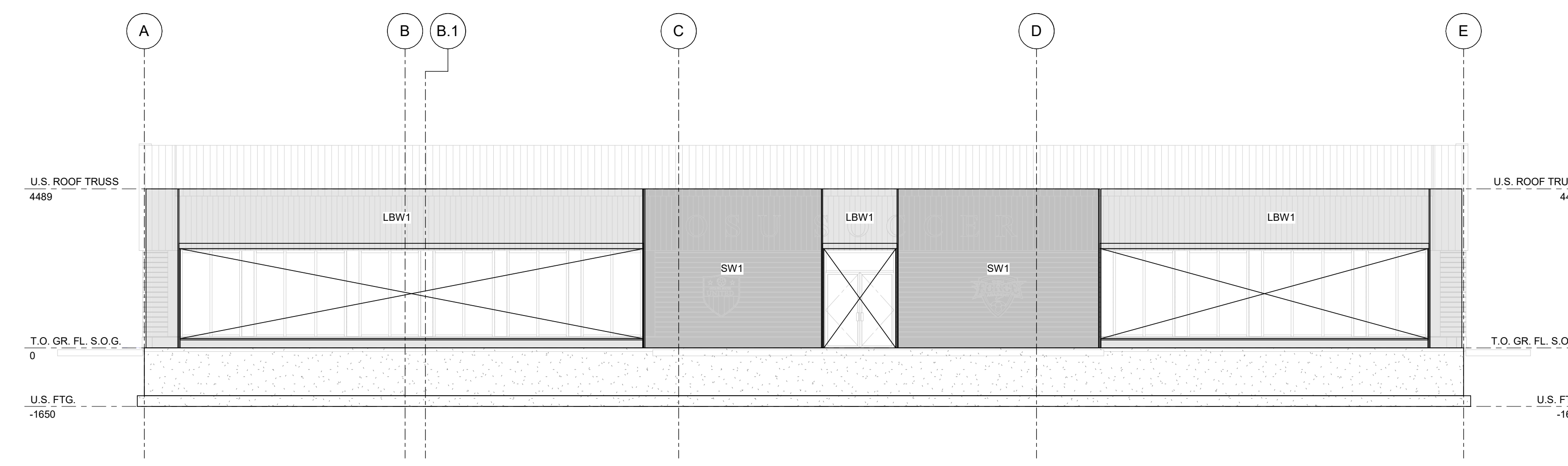
2 WALL ELEVATION ALONG GRID LINE A
S101 1:100



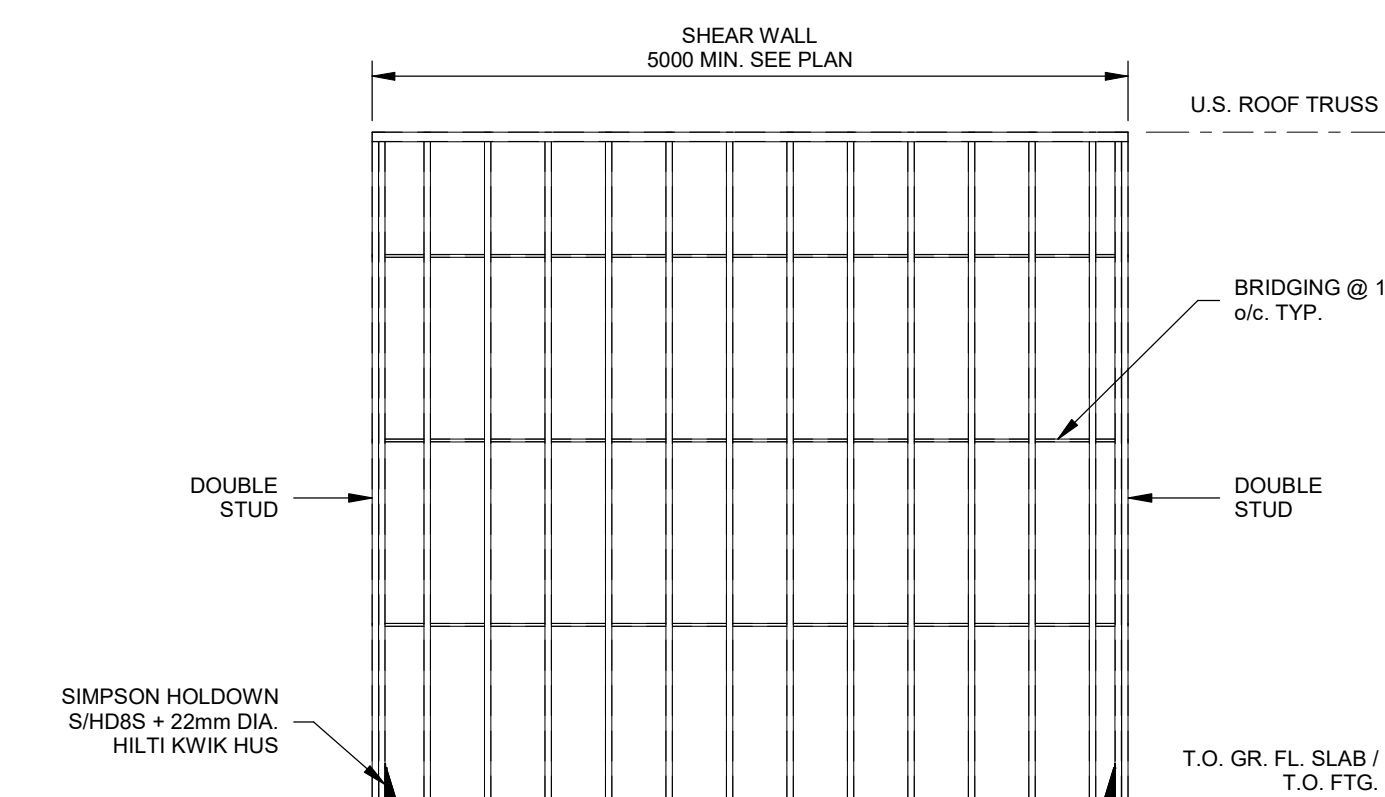
3 WALL ELEVATION ALONG GRID LINE E
S101 1:100



4 WALL ELEVATION ALONG GRID LINE 1
S101 1:100



5 WALL ELEVATION ALONG GRID LINE 4
S101 1:100



6 TYPICAL SHEAR WALL ELEVATION
S101 1:50

SCHEDULE - STEEL STUD LOAD BEARING WALL						
MARK	WALL WIDTH	VERT. STUDS	BOT TRACK	TOP TRACK	BRIDGING	COMMENTS
LW1	152	600S162-54 @ 400 o.c.	600T162-54	600T162-54	150U050-54 @ 1220 o.c.	

SCHEDULE - STEEL STUD LOAD BEARING SHEAR WALL						
MARK	WALL WIDTH	VERT. STUDS	BOT TRACK	TOP TRACK	BRIDGING	COMMENTS
SW1	152	600S162-54 @ 400 o.c.	600T125-54	600T125-54	150U050-54 @ 1220 o.c.	SEE NOTE #1
SW2	92	362S162-43 @ 400 o.c.	362T125-43	362T125-43	150U050-54 @ 1220 o.c.	SEE NOTE #1
SW3	152	600S162-43 @ 400 o.c.	600T125-43	600T125-43	150U050-54 @ 1220 o.c.	SEE NOTE #1

NOTE #1:
STEEL STUD SHEAR WALL TO HAVE 1.2mm OSB SHEATHING ON ONE SIDE WITH BLOCKING AT JOINTS AND SECURED WITH #8 SCREWS @ 150mm o.c. AT PERIMETER AND @ 300mm o.c. IN FIELD



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Émission-Révision / Issue for Revision:

No.	Date	Émission / Description
1	2023.05.31	ISSUED FOR PERMIT

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Révisé par / Reviewed by: Marc Forques, P.Eng. PE(O) 100078511
Équipe technique / Technical team: Mitchel Lavalée

Date / Date: 2022
Échelle / Scale: AS INDICATED

Discipline / Discipline: STRUCTURE

Titre du feuille / Drawing title: STEEL STUD LOAD BEARING WALL PLAN & ELEVATIONS

Numéro de projet / Project number: META-003
Page #: 1/1