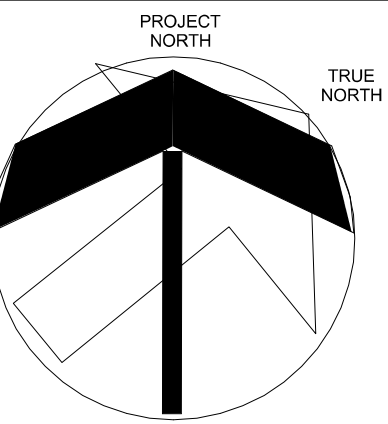


# OAKVILLE #3 PUBLIC SCHOOL



\* FOR REFERENCE ONLY \*

DRAWING LIST	
DRAWING No.	DRAWING NAME:
S0.0	COVERPAGE
S1.0	FOUNDATION PLAN
S2.0	FOUNDATION DETAILS
S3.0	SECOND FLOOR FRAMING PLAN
S3.1	THIRD FLOOR FRAMING PLAN
S3.2	ROOF FRAMING PLAN
S4.0	TYPICAL FRAMING DETAILS
S4.1	WALL SECTIONS
S4.2	WALL SECTIONS

## GENERAL NOTES

- CHECK ALL DIMENSIONS ON THESE DRAWINGS WITH ALL OTHER DRAWINGS, INCLUDING BUT NOT LIMITED TO DRAWINGS PREPARED ARCHITECTURAL, MECHANICAL OR ELECTRICAL CONSULTANTS. REPORT ANY INCONSISTENCIES TO THE ARCHITECT OR ENGINEER PRIOR TO COMMENCING WITH THE WORK. DO NOT SCALE THE DRAWINGS.
- THE DESIGN LIVE LOADS ARE INDICATED ON THE DRAWINGS. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
- THE COMPLETED STRUCTURE IS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING, SHORING AND ANY OTHER TEMPORARY OR PERMANENT MEASURES AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORT OF EXISTING OR ADJACENT STRUCTURES AS REQUIRED. ALL BRACING AND SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- CONSTRUCTION FEATURES NOT FULLY SHOWN ARE COMPARABLE TO SIMILAR CONSTRUCTION DETAILS.
- REFER TO OTHER CONSULTANTS DRAWINGS FOR DETAILS OF OPENINGS, PITS, CHAMBERS, DEPRESSIONS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
- ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST ONTARIO BUILDING CODE, LATEST APPLICABLE REGULATIONS, AND GOOD CONSTRUCTION PRACTICES.
- THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS.
- CLARIFY ANY QUERIES WITH THE ENGINEER REGARDING THE INTERPRETATION OF THE DRAWINGS, PRIOR TO THE COMMENCEMENT OF ANY WORK.

## SUBMITTALS

- SUBMIT FOR REVIEW BY THE CONSULTANT, DETAILED SHOP DRAWINGS FOR ALL STRUCTURAL WORK INCLUDING, BUT NOT LIMITED TO PRECAST SLABS, OPEN WEB STEEL JOIST, METAL STUDS, METAL DECK, CONCRETE MIXES, REINFORCING STEEL, STRUCTURAL STEEL, AND TEMPORARY SHORING.
- THE SURFACE OF THE DRAWINGS SHALL BE SUCH THAT THE DETAILS OF THE STRUCTURAL WORK ARE CLEARLY SHOWN, AND IN NO CASE SMALLER THAN 1/4" = 1'-0" (1:30).
- THE STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED, IN WHOLE OR IN PART, FOR USE AS SHOP DRAWINGS.
- EACH DRAWING SUBMITTED FOR PRECAST SLABS, OPEN WEB STEEL JOIST, METAL STUDS, METAL DECK, CONCRETE MIXES, REINFORCING STEEL, STRUCTURAL STEEL AND TEMPORARY SHORING SHALL BEAR THE SEAL AND SIGNATURE OF A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
- CONTRACTOR SHALL ALLOW FOR A WORKING DAY TURN AROUND TIME FOR STRUCTURAL CONSULTANT TO REVIEW THE SHOP DRAWINGS.

## CALCULATIONS

- SUBMIT CALCULATIONS, BEARING THE SEAL AND SIGNATURE OF PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO, FOR STRUCTURAL WORK AS REQUESTED BY THE CONSULTANT.

## CONCRETE NOTES

- ALL STRUCTURAL CONCRETE ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD CANCSA A23.1. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH CSA STANDARD CANCSA A23.1.
- MINIMUM CONCRETE STRENGTH AT 28 DAYS SHALL BE:
  - FOOTINGS 35 MPa TYPE I
  - FOUNDATION WALLS 25 MPa TYPE I
  - EXTERIOR SLABS 25 MPa TYPE I
  - SLAB ON GRADE 25 MPa TYPE I
  - PIERS 25 MPa TYPE I
  - LEAF CONCRETE 10 MPa
  - SLUMP SHALL BE 75mm-25mm
  - AGGREGATE SHALL BE 30mm MAXIMUM
  - AIR ENTRAINMENT TO BE 1% ± 1% WHEN EXPOSED TO EXTERIOR
  - CONTRACTOR TO SUBMIT CONCRETE MIX DESIGN FOR REVIEW
- THE REINFORCING STEEL SHALL CONFORM TO CSA STANDARD G30.18M GRADE 500R FOR BARS AND TIES AND GRADE 600R FOR ALL OTHER REINFORCING. UNLESS OTHERWISE NOTED THE REINFORCING LAP LENGTH SHALL BE CLASS B IN SPICES. ALL REINFORCING HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH A23.1.
- WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH CSA G30.5. ALL MESH SHALL BE CHAINED PRIOR TO THE CONCRETE POUR. LIFTING OF THE MESH DURING THE CONCRETE POUR WILL NOT BE PERMITTED. ALL SPICES SHALL BE A MINIMUM OF TWO CROSS WIRE SPACINGS PLUS 20mm.
- THE REINFORCING COVER FOR CONCRETE SHALL BE:
  - 75mm FOR CONCRETE AGAINST EARTH
  - 40mm FOR FORMED CONCRETE EXPOSED TO EARTH OR WEATHER WHERE THE REINFORCING BARS ARE 10mm OR SMALLER
  - 30mm FOR FORMED CONCRETE EXPOSED TO EARTH OR WEATHER WHERE THE REINFORCING BARS ARE 20mm OR LARGER
  - 20mm FOR INTERIOR CONCRETE. ALL CHAIRS, BOLTERS, SPACERS AND BAR SUPPORTS SHALL BE IN ACCORDANCE WITH A23.1.
- FOOTINGS SHALL BEAR ON ENGINEERED FILL WITH A MINIMUM BEARING RESISTANCE OF:
  - 150 kPa (SLS)
  - 225 kPa (SLS)
  - THE CONTRACTOR SHALL VERIFY THE CAPACITY PRIOR TO PLACEMENT OF CONCRETE.
  - REFER TO GEO TECHNICAL REPORT PREPARED BY DS CONSULTANT LTD. DATED NOVEMBER 23, 2022. PROJECT NO. 19-001-001
  - REFER TO SITE OBSERVATION REPORTS BY GVS CONSULTING INC. REGARDING PLACEMENT OF ENGINEERED FILL.
- THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATION OR STEP DOWN FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10. STEP HEIGHT SHALL NOT EXCEED 400mm.
- KEEP EXCAVATIONS DRY BEFORE CONCRETE IS PLACED. REMOVE ALL LOOSE MATERIAL, SOFT SOIL OR WATER PRIOR TO PLACING CONCRETE. PROVIDE A 75mm MADE SLAB FOR ALL FOOTINGS BELOW THE WATER TABLE.
- ALL FOOTINGS SHALL BE CENTRED ON THE WALL UNLESS OTHERWISE NOTED.
- THE FOOTING DESIGN IS BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. THE FOOTING DESIGN MAY BE ALTERED DURING CONSTRUCTION, IF THE SITE CONDITIONS WARRANT, BUT ONLY WITH THE EXPRESS PERMISSION OF THE ENGINEER.
- PROTECT ALL FOOTINGS, WALLS AND SLABS AGAINST FROST ACTION DURING CONSTRUCTION. ALL EXTERIOR FOOTINGS SHALL BE COVERED BELOW THE FROST LINE. MINIMUM 1200mm BELOW GRADE.
- DO NOT BACKFILL AGAINST WALLS OR RETAINING EARTH UNTIL THE ELEMENTS PROVIDING LATERAL SUPPORT ARE COMPLETE. PLACE BACKFILL IN A MANNER WHICH PROVIDES THE LEAST UPWARD DIFFERENCE ON EITHER SIDE OF THE WALL AND NO GREATER THAN 450mm. PROVIDE TEMPORARY SHORING AS REQUIRED.
- SLAB-ON-GRADE CONSTRUCTION SHALL BE CAPABLE OF SUPPORTING 25kPa WITHOUT RELATIVE SETTLEMENT.
- CONSTRUCT CONCRETE WALLS WITHOUT CONTROL JOINTS, UNLESS OTHERWISE NOTED. PROVIDE CHAMBERS AND BEAMS POCKETS IN THE INTERIOR FACE OF THE WALL AS REQUIRED.
- PROVIDE DETAILS TO WALLS AND COLUMNS TO SUIT THE REINFORCING IN THE WALL OR COLUMN ABOVE.
- ALL ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE HLT H1-HY200 (OR APPROVED EQUAL) PROCEDURES.

## MASONRY NOTES

- ALL STRUCTURAL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD S304.1. ALL MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH CSA STANDARD A370. ALL MORTAR AND GROUT SHALL BE IN ACCORDANCE WITH A370.
- ALL CONCRETE BLOCKS SHALL BE NORMAL WEIGHT TYPE N175MM UNLESS OTHERWISE NOTED. MORTAR SHALL BE TYPE S FOR LOADBEARING AND TYPE N FOR NON-LOADBEARING.
- VERTICAL CONTROL JOINTS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 6000mm.
- TRIM ALL OPENINGS WITH 2-10M BARS.
- GROUT SHALL CONSIST OF ONE PART PORTLAND CEMENT, THREE PARTS SAND (MAXIMUM AGGREGATE SIZE SHALL BE 10mm WITH WATER TO PROVIDE A MINIMUM 10MPa COMPRESSIVE STRENGTH AT 28 DAYS). SLUMP SHALL BE 200mm TO 250mm.
- ALL CELLS CONTAINING REINFORCING SHALL BE GROUTED SOLID. TWO BLOCK COURSES BELOW BEARING PLATES SHALL BE GROUTED SOLID.
- THE MASONRY SHALL BE CONSTRUCTED EVENLY WITH MAXIMUM LIFTS OF 120 PER DAY. DO NOT TIGHTEN AND BOND OR STACK BOND MASONRY. RAKE BACK ENDS OF UNFINISHED WALLS.
- ALL MORTAR JOINTS SHALL BE TOOLED (CONCAVE). A MINIMUM BED JOINT OF 6mm IS REQUIRED FOR THE STARTING COURSE TO A MAXIMUM OF 20mm. THE BED JOINTS SHALL BE 10mm.
- PROVIDE VERTICAL AND HORIZONTAL REINFORCING AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS:
  - 140 CONCRETE BLOCK - 10M VERTICAL AT 800 O.C. & HEAVY DUTY TRUSS TYPE HORIZONTAL REINFORCING EVERY SECOND COURSE
  - 190 CONCRETE BLOCK - 15M VERTICAL AT 800 O.C. & HEAVY DUTY TRUSS TYPE HORIZONTAL REINFORCING EVERY SECOND COURSE
  - 240 CONCRETE BLOCK - 20M VERTICAL AT 800 O.C. & HEAVY DUTY TRUSS TYPE HORIZONTAL REINFORCING EVERY SECOND COURSE
  - 290 CONCRETE BLOCK - 25M VERTICAL AT 800 O.C. & HEAVY DUTY TRUSS TYPE HORIZONTAL REINFORCING EVERY SECOND COURSE
- THE HORIZONTAL REINFORCING AT EXTERIOR WALLS SHALL BE GALVANIZED. DO NOT EXTEND HORIZONTAL REINFORCING THROUGH CONTROL JOINTS UNLESS OTHERWISE NOTED.
- PROVIDE A STEEL LINTEL OVER ALL OPENINGS INCLUDING OPENINGS FOR MECHANICAL AND ELECTRICAL COMPONENTS. ALL EXTERIOR LINTELS ARE TO BE HOT DIP GALVANIZED.
- BUILD THE MASONRY SOLID AROUND ALL BEAM LINTEL AND JOIST POCKETS. INSTALL BEARING PLATES AT THE SPECIFIED ELEVATION AND GROUT THE PLATE INTO THE WALL A MINIMUM OF 900mm.
- PROVIDE TEMPORARY BRACING AS REQUIRED TO SUPPORT THE MASONRY WALLS IN CONSTRUCTION. PROTECT THE MASONRY FROM THE ELEMENTS AT ALL TIMES EXCEPT DURING CONSTRUCTION PROGRESS.

## STRUCTURAL STEEL NOTES

- ALL STRUCTURAL STEEL ELEMENTS INCLUDING DESIGN OF ELEMENTS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH CANCSA S16.
- ALL STRUCTURAL STEEL SHALL CONFORM TO CSA G40.21 (500K) EXCEPT W SECTIONS AND PLATES SHALL BE FABRICATED FROM A36M OR A572M OR A588 OR A588M OR A588C OR A572M OR A588C OR A588M OR A588C. ALL WELDS SHALL BE FULLY QUALIFIED UNDER THE REQUIREMENTS OF THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH CANCSA M1.1.
- OPEN WEB STEEL JOISTS ARE TO BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER TO CARRY THE LOADS AND SPANS INDICATED ON THE DRAWINGS. DETAILS AND DESIGN INCLUDING BRIDGING REQUIREMENTS ARE TO CONFORM TO CANCSA S16.09. PROVIDE 100mm DEEP JOIST SHOES DESIGNED FOR A MAXIMUM BEARING PRESSURE OF 1500 kPa ON MASONRY WALLS.
- ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH CANCSA W59. THE STEEL FABRICATOR SHALL BE FULLY QUALIFIED UNDER THE REQUIREMENTS OF THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH CANCSA M1.1.
- DESIGN ALL MOMENT AND SHEAR CONNECTIONS FOR THE FULL CAPACITY OF THE SMALLER MEMBER IN THE CONNECTION UNLESS OTHERWISE NOTED.
- PROVIDE MINIMUM BEARING LENGTH OF STEEL MEMBERS AS FOLLOWS:
  - ON MASONRY - 250mm
  - ON STEEL - 25mm
- THE BASE PLATE AND BEARING PLATE GROUT SHALL BE OF THE CEMENTITIOUS HIGH-STRENGTH TYPE.
- DECK SHALL BE EITHER 30mm OR 70mm DEEP IN ACCORDANCE WITH CSA S118 AND SHALL BE FABRICATED FROM A36M OR A572M OR A588 OR A588M OR A588C OR A572M OR A588C OR A572M OR A588C. ALL WELDS SHALL BE FULLY QUALIFIED UNDER THE REQUIREMENTS OF THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH CANCSA M1.1.
- 0.75mm STEEL DECK SHALL BE FASTENED TO THE SUPPORT STRUCTURE WITH 20mm SPOT WELDS AT NOT MORE THAN 300mm (100mm AT PERIMETER). CLANCH SLOPES AT 600mm O.C. ALL WELDS TO BE TOUCHED UP WITH PRIMER. MECHANICAL FASTENERS MAY ONLY BE USED WITH THE PERMISSION OF THE ENGINEER.
- FULLY WELD THE BASE PLATE TO THE COLUMN TO DEVELOP THE ANCHOR BOLTS. PROVIDE CAP PLATES ON ALL COLUMNS. PROVIDE 6mm CAP PLATES ON ALL COLUMNS.

## LIGHT GAUGE STEEL FRAMING NOTES

### GENERAL

- THESE NOTES APPLY TO THE STEEL STUD FRAMING COMPONENT OF THE EXTERIOR WALL SYSTEM ONLY.
- THE DESIGN WIND LOADING IS 1.2kN/m<sup>2</sup> (25 PSF) DETERMINED BY O.B.C. REQUIREMENTS AND CANCSA S16. DEFLECTION IS LIMITED TO L/600.
- THE DESIGN OF FRAMING SYSTEM IS BASED ON PUBLISHED STUD SECTION PROPERTIES BY BAILEY METAL PRODUCTS LIMITED.

### MATERIAL

- THE MINIMUM BASE METAL THICKNESS FOR ALL METAL WALL COMPONENTS, EXCLUDING COATINGS ARE NOTED ON THE DRAWINGS.
- STEEL MEETS THE REQUIREMENTS OF A 3.7M ABSISSAM SS GRADE 33 (250) FOR 1.2mm MATERIAL AND THINNER AND SS GRADE 30 (240) CLASS 1 FOR 1.5mm MATERIAL AND THICKER.
- GALVANIZING TO BE HOT-DIP PROCESS, G90 (Z75).

### EXECUTION

- METHOD OF CONSTRUCTION SHALL BE BY STICK BUILDING ON SITE.
- CONNECTIONS SHALL BE ACCOMPLISHED BY SELF-DRILLING SCREWS AND OTHER METHODS AS SHOWN ON THESE DRAWINGS. PENETRATION BEYOND ZONED MATERIALS SHALL BE NOT LESS THAN THREE EXPRESSED THREADS. ALL CONNECTIONS USED IN ASSEMBLY SHALL BE OF CONFORMANCE WITH CANCSA M1.1.
- ALL JOISTS AND DECK SHALL BE DESIGNED TO RESIST THE LOADS NOTED ON THE DRAWINGS IN ACCORDANCE WITH PART 4 OF THE 2012 ONTARIO BUILDING CODE.
- GROUT LOADS ON METAL DECK AND JOISTS WITHIN 3m OF THE BUILDING EDGE SHALL BE CALCULATED USING A C<sub>1</sub> OF 2.0. UPLIFT LOADS IN OTHER AREAS SHALL BE CALCULATED USING A C<sub>1</sub> OF -1.3.
- JOIST DEFLECTION SHALL BE LIMITED TO L/300 AND SHALL BE CALCULATED USING SPREADER LOADS UNLESS NOTED OTHERWISE.
- PROVIDE 100mm DEEP JOIST SHOES DESIGNED FOR A MAXIMUM BEARING PRESSURE OF 1.1 MPa ON MASONRY WALLS.
- NO DRILLING, CUTTING, OR WELDING OF JOISTS OR BRIDGING IS PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER AND THE JOIST DESIGNER.
- DECK SHALL BE EITHER 30mm OR 70mm DEEP IN ACCORDANCE WITH CSA S118 AND SHALL BE FABRICATED FROM A36M OR A572M OR A588 OR A588M OR A588C OR A572M OR A588C OR A572M OR A588C. ALL WELDS SHALL BE FULLY QUALIFIED UNDER THE REQUIREMENTS OF THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH CANCSA M1.1.
- DECK SHALL BE EITHER 30mm OR 70mm DEEP IN ACCORDANCE WITH CSA S118 AND SHALL BE FABRICATED FROM A36M OR A572M OR A588 OR A588M OR A588C OR A572M OR A588C OR A572M OR A588C. ALL WELDS SHALL BE FULLY QUALIFIED UNDER THE REQUIREMENTS OF THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH CANCSA M1.1.
- SPACING OF STUDS SHALL BE WITHIN 3mm FROM DESIGN SPACING PROVIDED THAT CUMULATIVE ERROR DOES NOT EXCEED THE REQUIREMENTS OF THE FINISHING MATERIALS.
- HORIZONTAL ALIGNMENT (LEVELNESS) OF WALLS SHALL BE WITHIN 1/1000 OF THEIR RESPECTIVE LENGTHS.
- SPACING OF STUDS SHALL BE WITHIN 3mm FROM DESIGN SPACING PROVIDED THAT CUMULATIVE ERROR DOES NOT EXCEED THE REQUIREMENTS OF THE FINISHING MATERIALS.

## DESIGN SUMMARY

### LOADING STANDARDS

- ONTARIO BUILDING CODE, 2012, PART 4 - STRUCTURAL DESIGN
- CANCSA A23.1 - DESIGN OF CONCRETE STRUCTURES
- CANCSA A23.4 - DESIGN OF PRECAST CONCRETE STRUCTURES
- CANCSA S16 - MASONRY DESIGN FOR BUILDINGS
- CANCSA S16.14 - LIMIT STATES DESIGN OF STEEL STRUCTURES
- CANCSA S16.18 - DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS

### SNOW, ICE AND RAIN LOADS

- APPLIED PER OBC, PART 4, SECTION 4.1.6
- IMPORTANCE FACTOR,  $I$  0.9 (SLS) 1.15 (OLS)
- WIND EXPOSURE FACTOR,  $E$  1.1 kPa
- ASSOCIATED RAIN LOAD,  $R$  0.4 kPa
- WIND EXPOSURE FACTOR,  $C_w$  1.47 kPa
- ICE LOAD PER CLAUSE 4.1.2.2
- SLOPE FACTOR PER CLAUSE 4.1.2.2 (S) TO (7)

### WIND LOADS

- APPLIED PER OBC, PART 4, SECTION 4.1.7
- IMPORTANCE FACTOR,  $I$  0.75 (SLS) 1.15 (OLS)
- REFERENCE VELOCITY PRESSURE FOR STRUCTURAL MEMBERS 4.1 MPa 10% YEAR PROBABILITY
- REFERENCE VELOCITY PRESSURE FOR CLADDING & NON-STRUCTURAL MEMBERS 2.0 MPa 10% YEAR PROBABILITY
- WIND FACTORS  $C_f$  FOR WHOLE & MAIN STRUCTURAL MEMBERS 2.0
- FOR SMALL ELEMENTS INCLUDING CLADDING 2.0
- FOR INTERNAL PRESSURES 2.0
- BUILDING INTERNAL PRESSURE CATEGORY 2 PER NBC 2010
- STRUCTURAL COMMENTARY PART 8, COMMENTARY B.

### SEISMIC LOADS

- APPLIED PER OBC, PART 4, SECTION 4.1.8
- IMPORTANCE FACTOR,  $I$  1.3 (SLS)
- $S_a(0.2)$  0.260
- $S_a(0.5)$  0.220
- $S_a(1.0)$  0.200
- $S_a(2.0)$  0.200
- $S_a(5.0)$  0.007
- $P_{0.1}$  0.107
- $P_{0.2}$  0.107
- $P_{0.5}$  0.107
- $P_{1.0}$  0.107
- $P_{2.0}$  0.107
- $P_{5.0}$  0.107
- $P_{10.0}$  0.107
- SOIL CLASS C
- $\rho$  Deflect 0.134
- $F_a$  1.0
- $F_v$  1.0
- $T_a$  0.323 (SECONDS)
- $M_a$  1.2
- $R_d$  1.5
- $R_o$  1.5
- 6000 kN

### FLOOR LOADS

- APPLIED PER OBC, PART 4, TABLE 4.1.5.3
- GROUND FLOOR 4.80 kPa (100.0 PSF)
- SECOND FLOOR 4.80 kPa (100.0 PSF)
- STAIRS 4.80 kPa (100.0 PSF)
- CORRIDORS 4.80 kPa (100.0 PSF)
- MACHINES 4.80 kPa (100.0 PSF)
- BALCONIES 4.80 kPa (100.0 PSF)
- STAIRS AND JOISTS 4.80 kPa (100.0 PSF)
- WASHROOMS 4.80 kPa (100.0 PSF)

### SEISMIC SWAY BRACING

- ARTICLE 4.1.8 (10) OF THE ONTARIO BUILDING CODE NOTES THAT IF THE PRODUCT OF  $C_f \times I$  IS LESS THAN 0.8, THE REQUIREMENTS NOTED ABOVE NEED NOT APPLY. THESE NOTES ARE ENFORCED BELOW. THIS EXEMPTION IS NOT APPLICABLE TO POST-DISASTER BUILDINGS.
- BASED ON THE ABOVE NOTED VALUES, THE PRODUCT OF  $C_f \times I$  IS 1.3 > 0.8. THEREFORE, THE REQUIREMENTS NOTED ABOVE NEED NOT APPLY. THESE NOTES ARE ENFORCED BELOW. THIS EXEMPTION IS NOT APPLICABLE TO POST-DISASTER BUILDINGS.
- REQUIREMENTS FOR LOAD RESTRICTIONS OUTLINED IN FIRE RESISTANCE RATINGS - CANULC-13701 CERTIFIED FOR GANBA AND THE LATEST HAVE BEEN ACCOUNTED FOR IN THE STRUCTURAL DESIGN.

## DESIGN LOADING

- DEAD:
  - 4-PY ASPHALT & GRAVEL +0.32 kPa
  - 150 RIGID INSULATION +0.19 kPa
  - CONCRETE +0.25 kPa
  - M&E ALL OVERLAYS +0.25 kPa
  - CEILING +0.25 kPa
  - FUTURE BALLAST PV ARRAY +0.50 kPa
  - PRECAST ROOF PAV +0.15 kPa
  - TOTAL 1.52 kPa
- FLOORS:
  - FLOORING +0.20 kPa
  - SOFT FLOORING +0.10 kPa
  - M&E ALL OVERLAYS +0.25 kPa
  - CEILING +0.25 kPa
  - TOTAL 1.88 kPa
- ROOF:
  - PLUS 1 kPa PARTITION LOAD IN CLASSROOM AREAS +1.00 kPa
  - PLUS 1 kPa HOLLOW CORE PRECAST CONCRETE SLABS +1.00 kPa
  - PLUS 1 kPa HOLLOW CORE PRECAST CONCRETE SLABS +1.00 kPa
  - PLUS 1 kPa SOLID PRECAST CONCRETE SLABS +1.00 kPa
  - PLUS 1 kPa SOLID PRECAST CONCRETE SLABS +1.00 kPa
  - TOTAL 4.00 kPa

## METAL DECK AND O.W.S.J. NOTES

- ALL OPEN WEB STEEL JOISTS SHALL BE DESIGNED AND ERRECTED IN ACCORDANCE WITH CANCSA S16.14. JOIST BRACING AND THE STEEL FABRICATOR AND NOT LATER THAN 100mm FROM THE JOIST WEB. THE STEEL FABRICATOR AND NOT LATER THAN 100mm FROM THE JOIST WEB. THE STEEL FABRICATOR AND NOT LATER THAN 100mm FROM THE JOIST WEB. THE STEEL FABRICATOR AND NOT LATER THAN 100mm FROM THE JOIST WEB.
- ALL WELDING OF JOISTS, DECK AND ASSOCIATED COMPONENTS SHALL BE CARRIED OUT IN ACCORDANCE WITH CANCSA W59. THE STEEL FABRICATOR AND NOT LATER THAN 100mm FROM THE JOIST WEB. THE STEEL FABRICATOR AND NOT LATER THAN 100mm FROM THE JOIST WEB. THE STEEL FABRICATOR AND NOT LATER THAN 100mm FROM THE JOIST WEB.
- ALL JOISTS AND DECK SHALL BE DESIGNED TO RESIST THE LOADS NOTED ON THE DRAWINGS IN ACCORDANCE WITH PART 4 OF THE 2012 ONTARIO BUILDING CODE.
- GROUT LOADS ON METAL DECK AND JOISTS WITHIN 3m OF THE BUILDING EDGE SHALL BE CALCULATED USING A C<sub>1</sub> OF 2.0. UPLIFT LOADS IN OTHER AREAS SHALL BE CALCULATED USING A C<sub>1</sub> OF -1.3.
- JOIST DEFLECTION SHALL BE LIMITED TO L/300 AND SHALL BE CALCULATED USING SPREADER LOADS UNLESS NOTED OTHERWISE.
- PROVIDE 100mm DEEP JOIST SHOES DESIGNED FOR A MAXIMUM BEARING PRESSURE OF 1.1 MPa ON MASONRY WALLS.
- NO DRILLING, CUTTING, OR WELDING OF JOISTS OR BRIDGING IS PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER AND THE JOIST DESIGNER.
- DECK SHALL BE EITHER 30mm OR 70mm DEEP IN ACCORDANCE WITH CSA S118 AND SHALL BE FABRICATED FROM A36M OR A572M OR A588 OR A588M OR A588C OR A572M OR A588C OR A572M OR A588C. ALL WELDS SHALL BE FULLY QUALIFIED UNDER THE REQUIREMENTS OF THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH CANCSA M1.1.
- DECK SHALL BE EITHER 30mm OR 70mm DEEP IN ACCORDANCE WITH CSA S118 AND SHALL BE FABRICATED FROM A36M OR A572M OR A588 OR A588M OR A588C OR A572M OR A588C OR A572M OR A588C. ALL WELDS SHALL BE FULLY QUALIFIED UNDER THE REQUIREMENTS OF THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH CANCSA M1.1.
- SPACING OF STUDS SHALL BE WITHIN 3mm FROM DESIGN SPACING PROVIDED THAT CUMULATIVE ERROR DOES NOT EXCEED THE REQUIREMENTS OF THE FINISHING MATERIALS.
- HORIZONTAL ALIGNMENT (LEVELNESS) OF WALLS SHALL BE WITHIN 1/1000 OF THEIR RESPECTIVE LENGTHS.
- SPACING OF STUDS SHALL BE WITHIN 3mm FROM DESIGN SPACING PROVIDED THAT CUMULATIVE ERROR DOES NOT EXCEED THE REQUIREMENTS OF THE FINISHING MATERIALS.

## SLAB & DECK LEGEND

### SLAB LEGEND

- S1 203 HOLLOW CORE PRECAST SLAB 90 CONCRETE TOPPING PLUS MASONRY LINE LOADS (10 kN/m)
- S2 254 HOLLOW CORE PRECAST SLAB 90 CONCRETE TOPPING PLUS MASONRY LINE LOADS (10 kN/m)
- S3 308 HOLLOW CORE PRECAST SLAB 90 CONCRETE TOPPING PLUS MASONRY LINE LOADS (10 kN/m)
- S4 254 HOLLOW CORE PRECAST SLAB 90 CONCRETE TOPPING (EXCLUDING MIDLANDING)
- S5 300 HOLLOW CORE PRECAST SLAB 90 CONCRETE TOPPING
- S6 254 SOLID PRECAST SLAB 90 CONCRETE TOPPING (EXCLUDING MIDLANDING)
- S7 300 SOLID PRECAST SLAB 90 CONCRETE TOPPING

NOTE: PROVIDE SOLID SLABS AS REQUIRED, TO BE DETERMINED BY THE PRECASTER

## DECK LEGEND

- D1 38 STEEL DECK (MM 220) ACOUSTIC PLUS SHOW PILE-UP
- D2 38 STEEL DECK (MM 200) ACOUSTIC PLUS SHOW PILE-UP
- D3 38 STEEL DECK CM 60 CONCRETE TOPPING c/w 152x152MMx12.7MMx1.6 (100 COMPOSITE DECK)

## BEARING PLATE (B.P.) SCHEDULE

TYPE	SIZE
A	175x175x16
B	150x150x16
C	230x230x16
D	230x300x16

PROVIDE 210S ANCHORS WELDED TO EACH PLATE AND GROUTED INTO BLOCK/CONCRETE UNLESS OTHERWISE NOTED.

FOR ALL BEAMS, JOISTS AND CHANNELS PROVIDE BEARING PLATE C IN 140 BLOCK UNLESS OTHERWISE NOTED.

## COLUMN SCHEDULE

COLUMN No.	C1	C2	C3	C4	C5	C6
CAP PL. SIZE	300x300x19	6mm PL	300x300x19	300x300x19	300x300x19	300x300x19
COLUMN SIZE	HES150x150x9.5	HES175x6.4	HES175x175x6.4	HES175x175x6.4	HES150x150x9.5	HES200x200x9.5
BASE PL. SIZE	B.PL. 2	B.PL. 1	B.PL. 1	B.PL. 2	B.PL. 2	B.PL. 1
ANCHOR BOLT	4.25.0mm	4.25.0mm	4.25.0mm	4.25.0mm	4.25.0mm	4.25.0mm

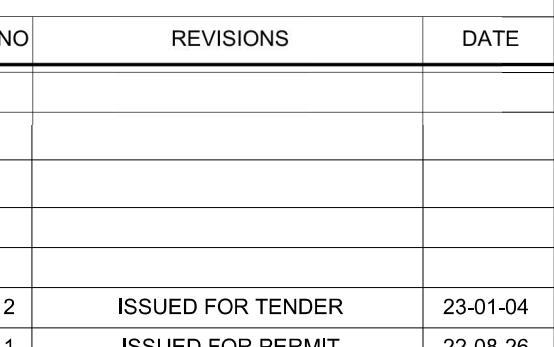
NOTES:

## PIER SCHEDULE

MARK	SIZE	REINFORCING	T/O PIER ELEV.
P1	450x450	4-25M VERTS & 10M @300 TIES	-200
P2	600x600	8-25M VERTS & 2-10M @300 TIES	-200

## FOOTING SCHEDULE

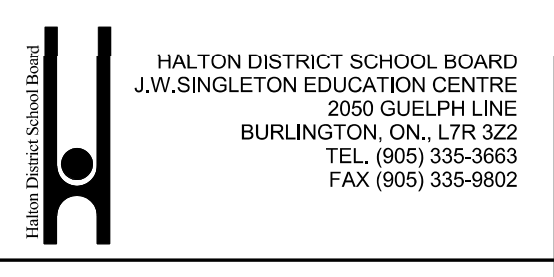
MARK	SIZE	REINFORCING
F1	1200x1200x300	4-20M B.E.W.
F2	2000x2000x400	8-20M B.E.W.
F3	3000x3000x500	12-20M B.E.W.



NO.	REVISIONS	DATE
1	ISSUED FOR PERMIT	23-01-2022
2	ISSUED FOR TENDER	23-01-04
NO.	ISSUED	DATE

CERTIFICATE OF PRACTICE #4292  
OAKVILLE #3 PUBLIC SCHOOL  
1235 WHEAT BROOM DRIVE, OAKVILLE, ON

LEGAL DESCRIPTION:  
BLOCK 4 - REGISTERED PLAN 2004-047  
OF THE TOWN OF OAKVILLE, REGION OF HALTON

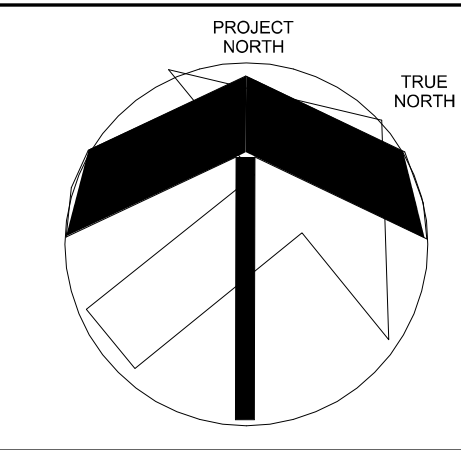


## COVERPAGE



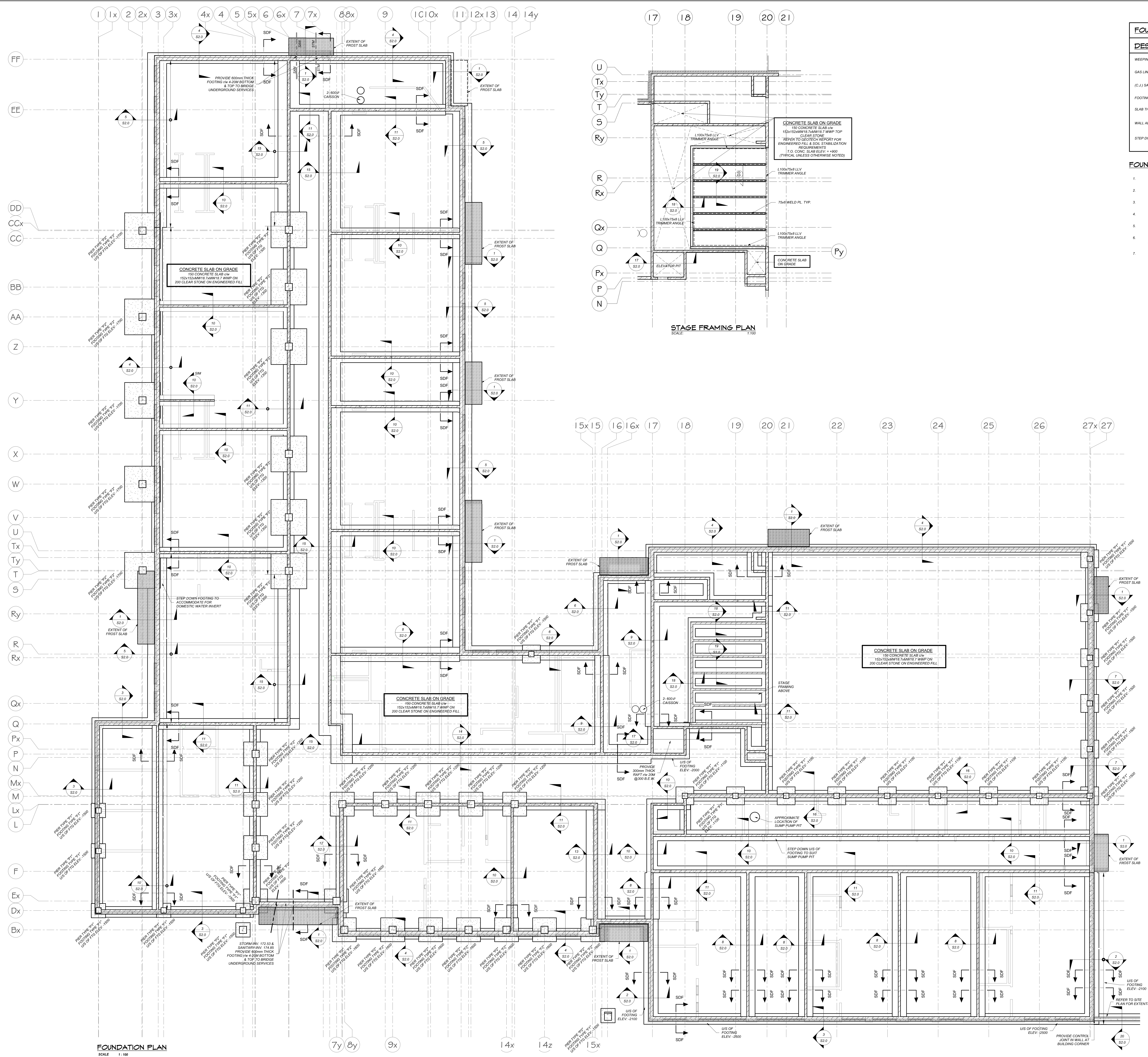
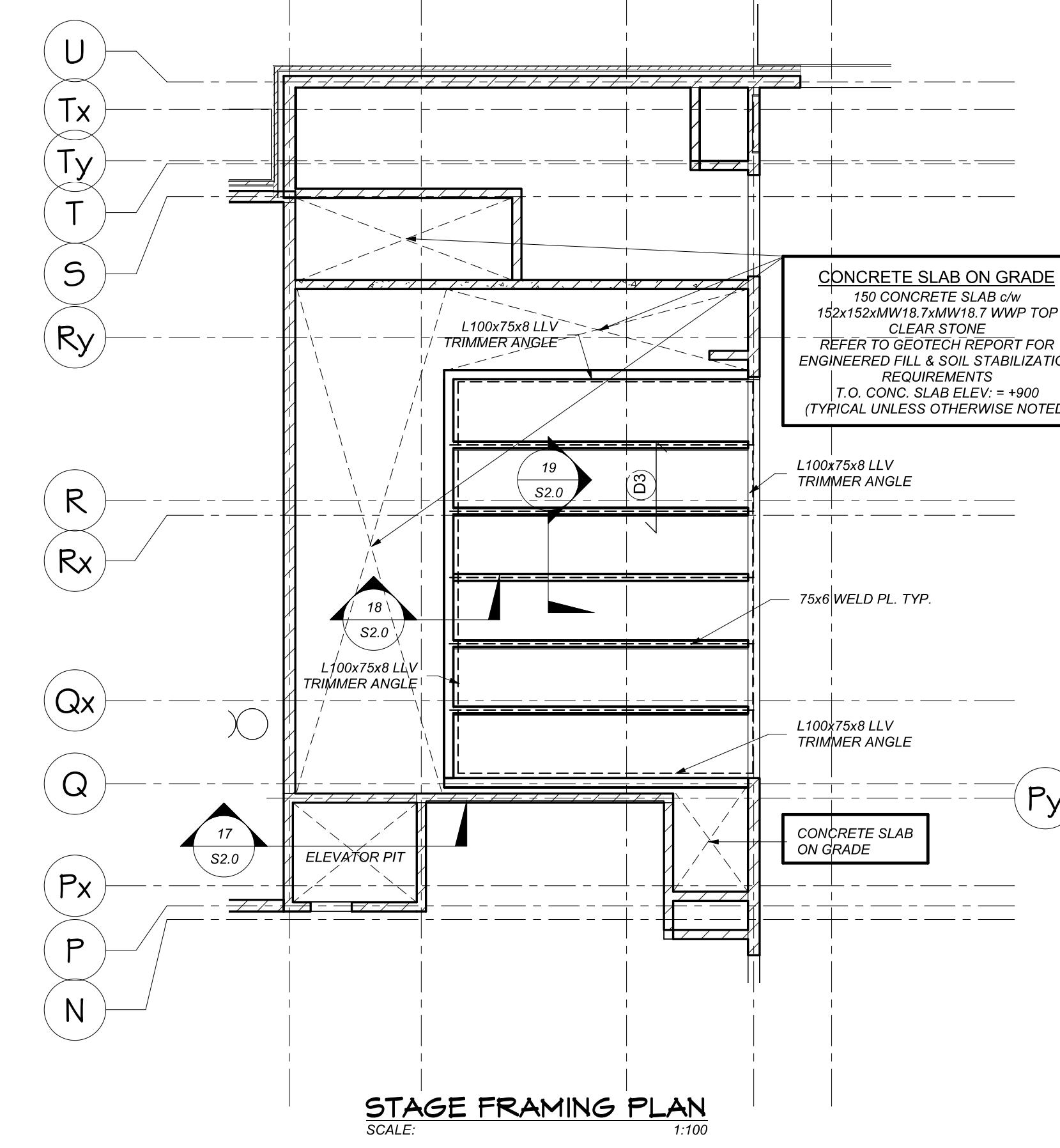
SCALE	PROJECT
As indicated	22104
DATE	AUGUST, 2022
DRAWN	S.L.NOVE
CHECKED	GF
PRINT DATE	11/20/2022 11:24:02 AM
REVIT FILE	T:\20151019\2022\Revit\MM.T01010.rvt





FOUNDATION LEGEND	
DESCRIPTION	SYMBOL
WEERING TILE	WT
GAS LINE	GS
(C, J) SAW CUT CONTROL JOINT	C, J
FOOTING EXTENTS	---
SLAB THICKENING	---
WALL ABOVE	---
STEP DOWN FOOTING	---

- FOUNDATION NOTES**
- TOP OF GROUND FLOOR SLAB ELEV. = 177.00 GEODETIC (0.0)
  - UNLESS NOTED OTHERWISE
  - TYPICAL EXTERIOR U/S FOOTING = +500 U.L.O.
  - TYPICAL INTERIOR U/S FOOTING = +100 U.L.O.
  - U/S OF SPREAD FOOTING TO BE DROPPED TO PROVIDE A CONTINUOUS TOP OF FOOTING
  - REFER TO S1.1 FOR TYPICAL FOUNDATION DETAILS AND S1.4 FOR CONCRETE NOTES
  - COORDINATE RIER ANCHOR BOLT LAYOUT WITH COLUMN BASE PLATES
  - ELEVATIONS SHOWN ARE APPROXIMATE ONLY. REFER TO ARCHITECTURAL FLOOR PLAN FOR DRAIN LOCATIONS AND SLOPE TO DRAIN.
  - PROVIDE SAWCUTS IN THE SLAB ON GRADE IN A 3m x 3m GRID PATTERN



NO.	REVISIONS	DATE
1	ISSUED FOR PERMIT	22-04-20
2	ISSUED FOR TENDER	23-01-04

NO. ISSUED DATE

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT. ANY DISCREPANCY OR OMISSIONS TO THE ORIGINAL DRAWING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE USE OF THIS DRAWING OR PART THEREOF IS FORWARDED WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

CERTIFICATE OF PRACTICE #4292  
**OAKVILLE #3 PUBLIC SCHOOL**

1235 WHEAT BROOM DRIVE  
OAKVILLE, ON

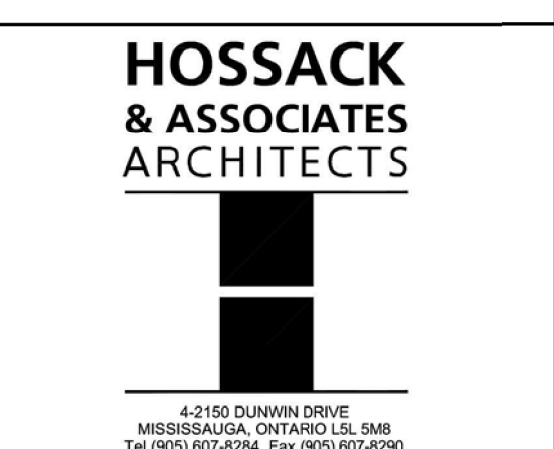
LEGAL DESCRIPTION:  
BLOCKS #1, REGISTERED PLAN 03A/3047  
TOWN OF OAKVILLE, REGION OF HALTON



300 YORK BLVD. HAMILTON, ONT. L8R 3K6  
PROJECT NO. 22087

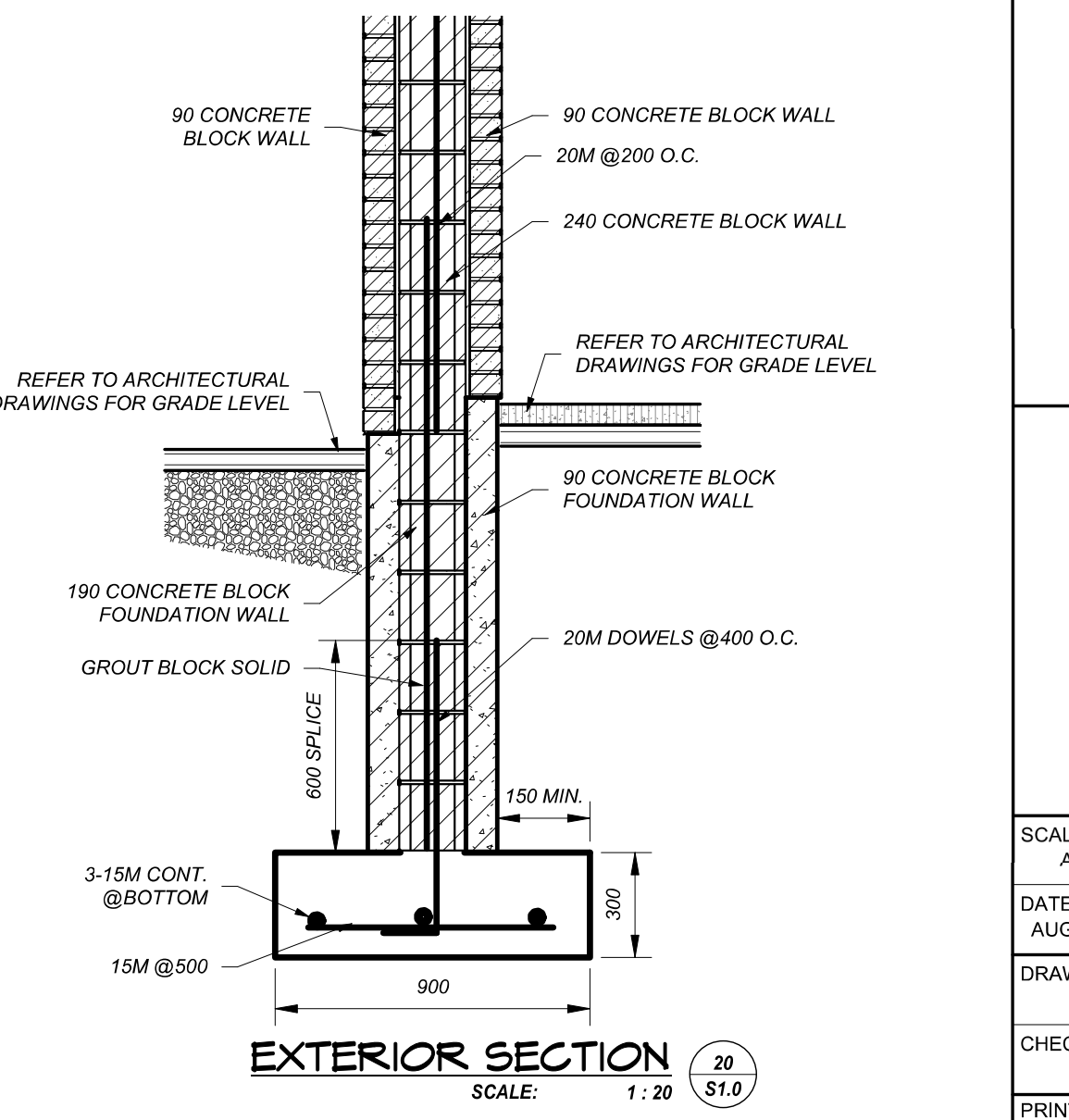
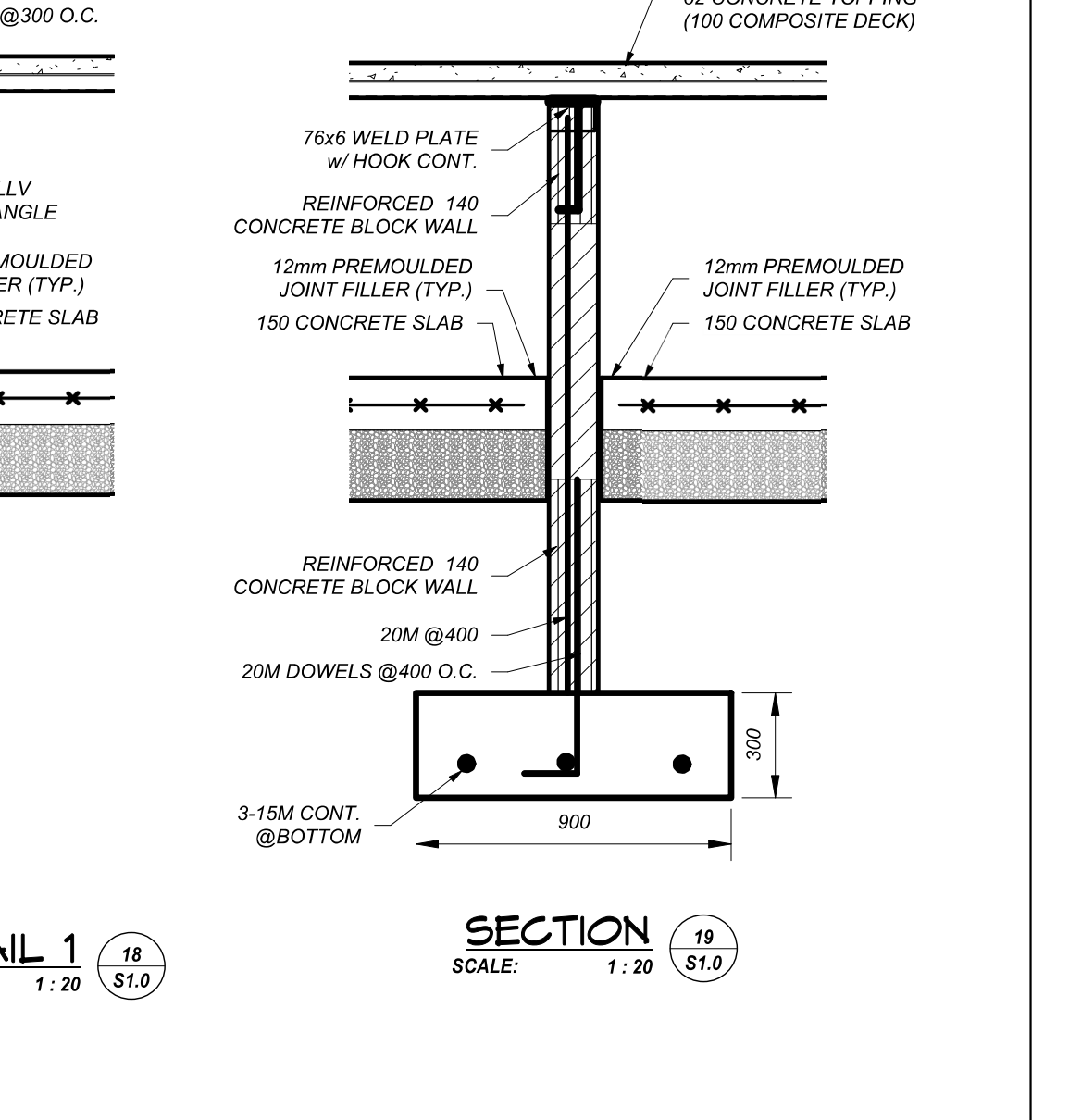
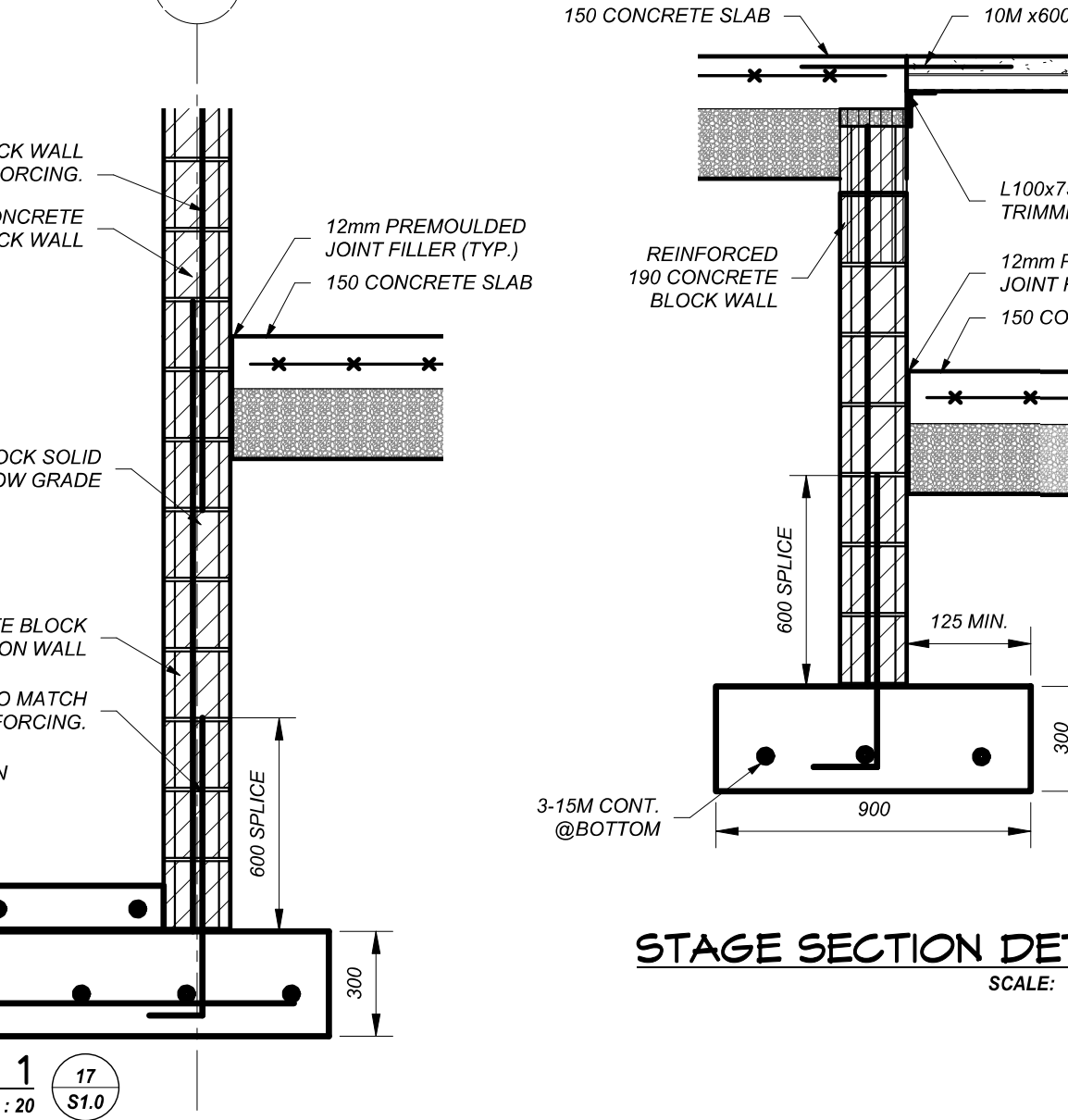
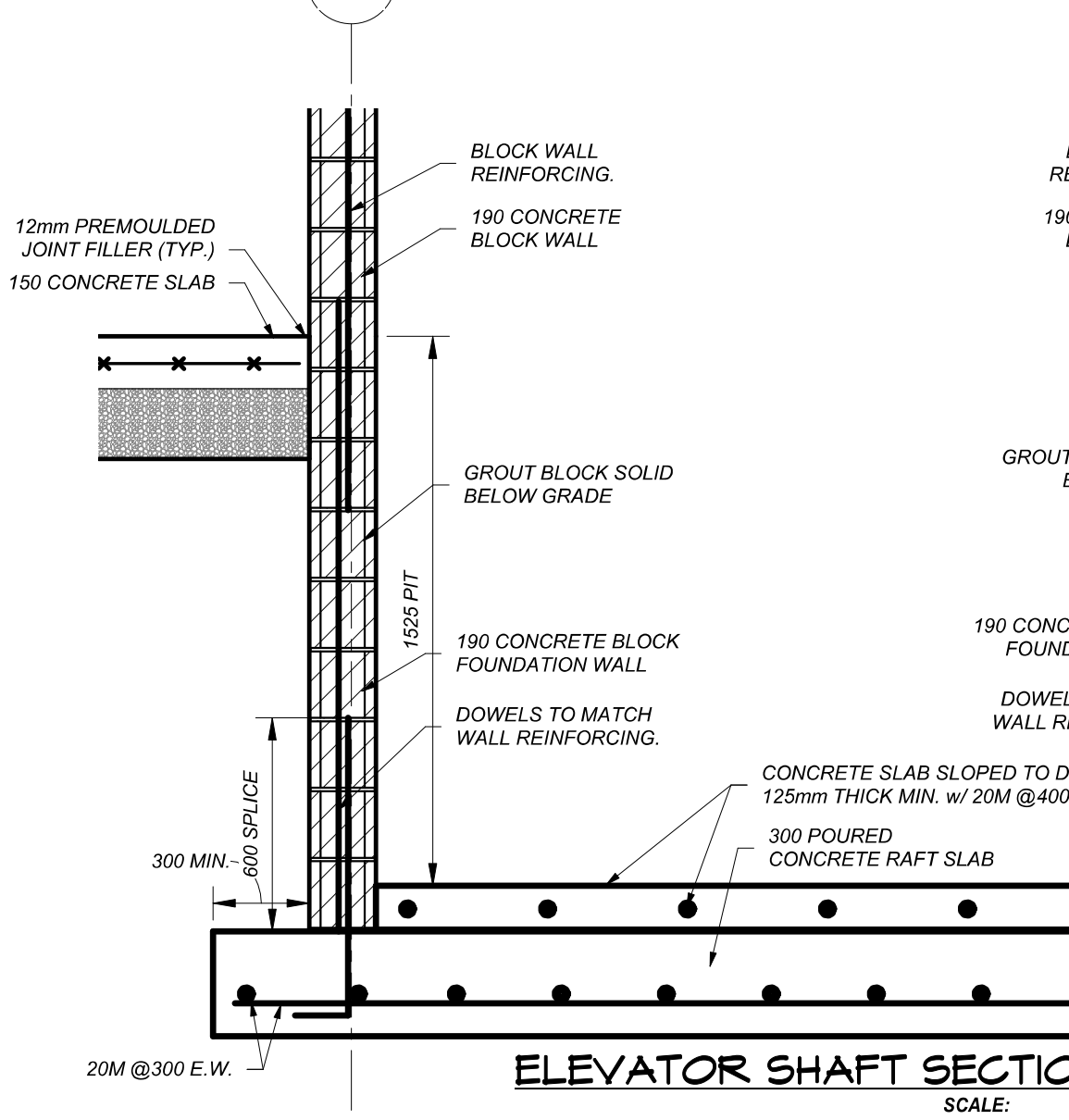
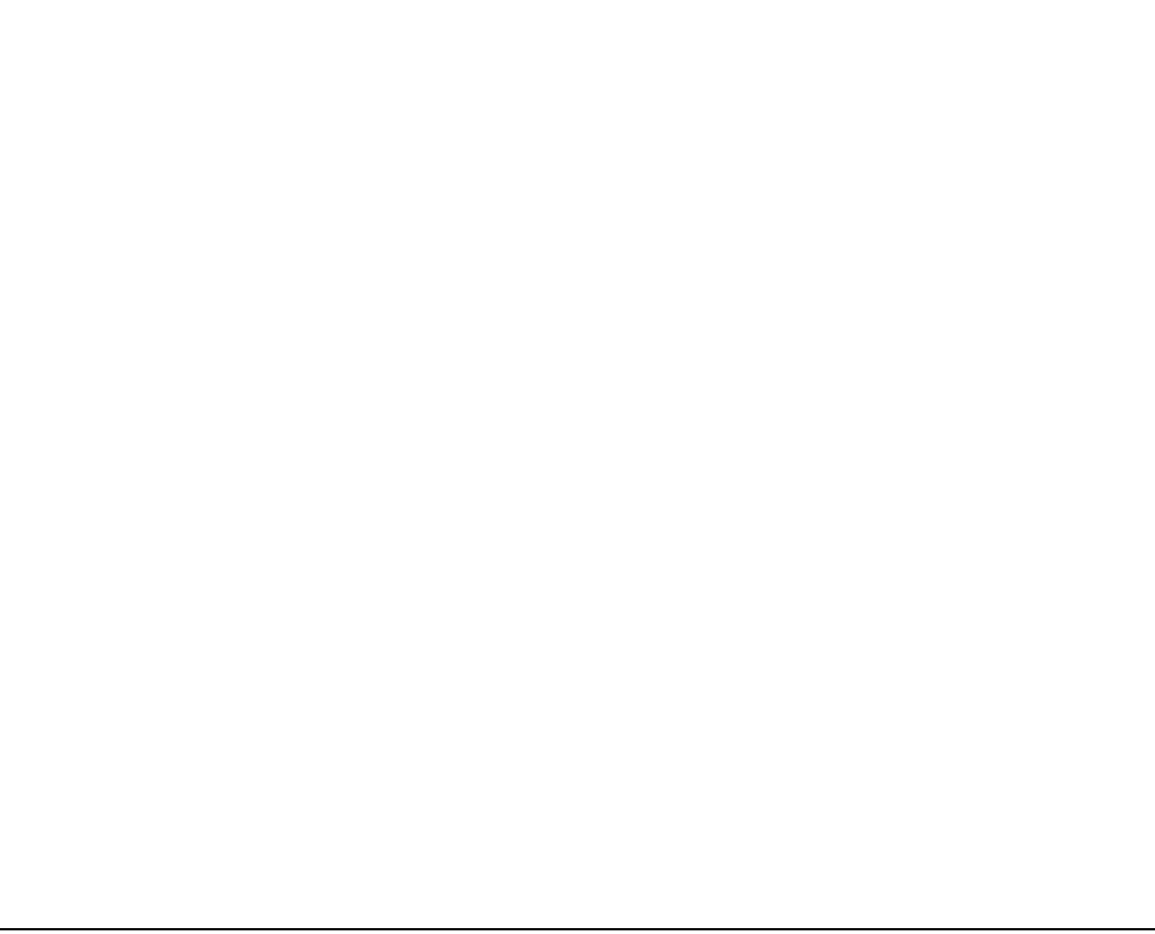
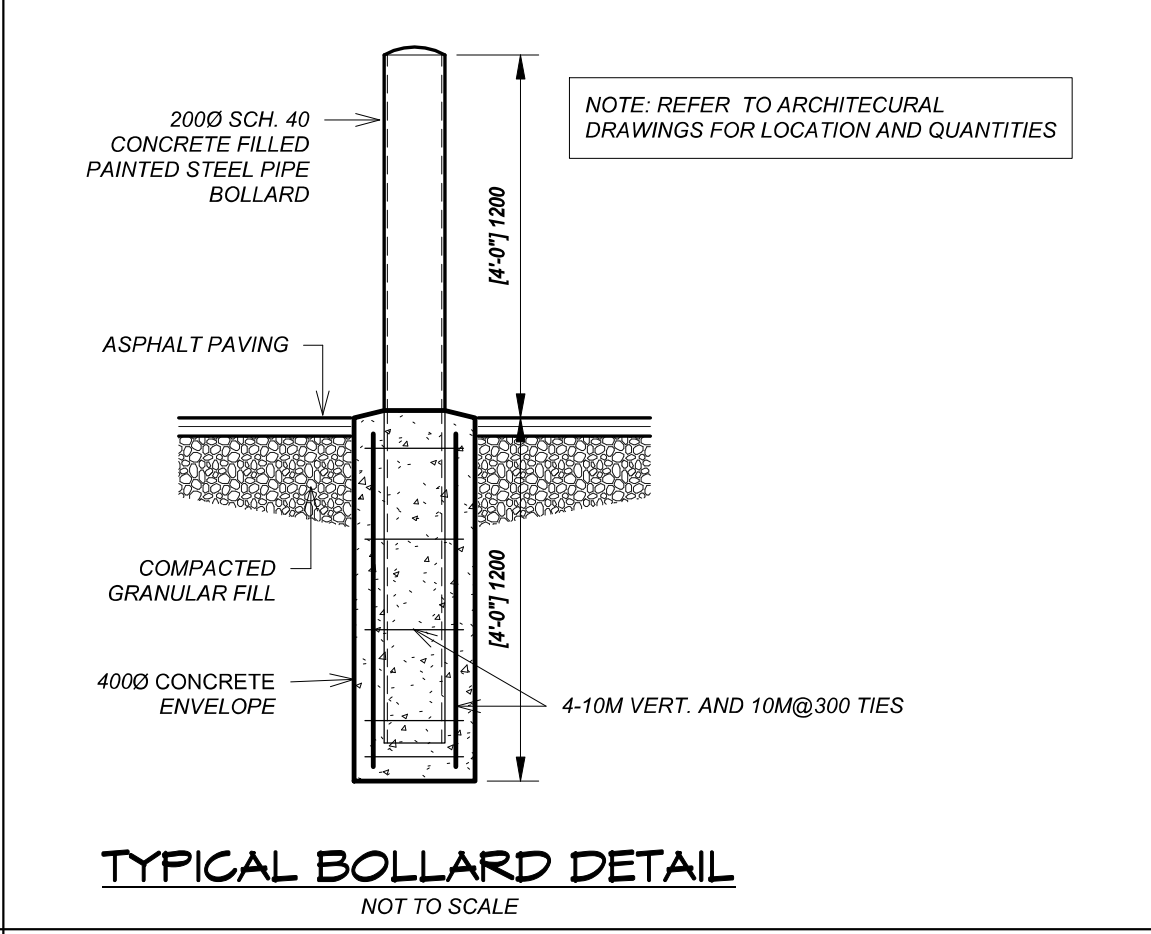
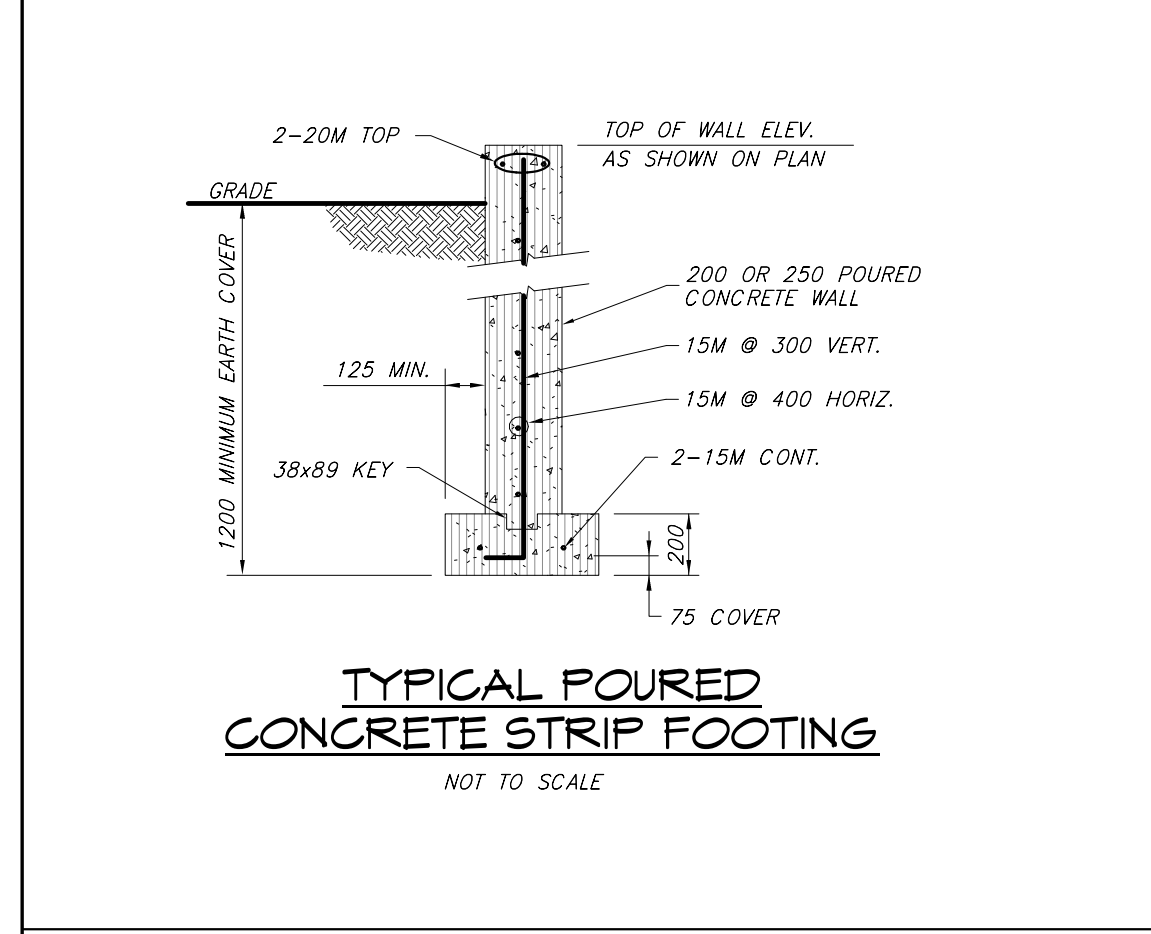
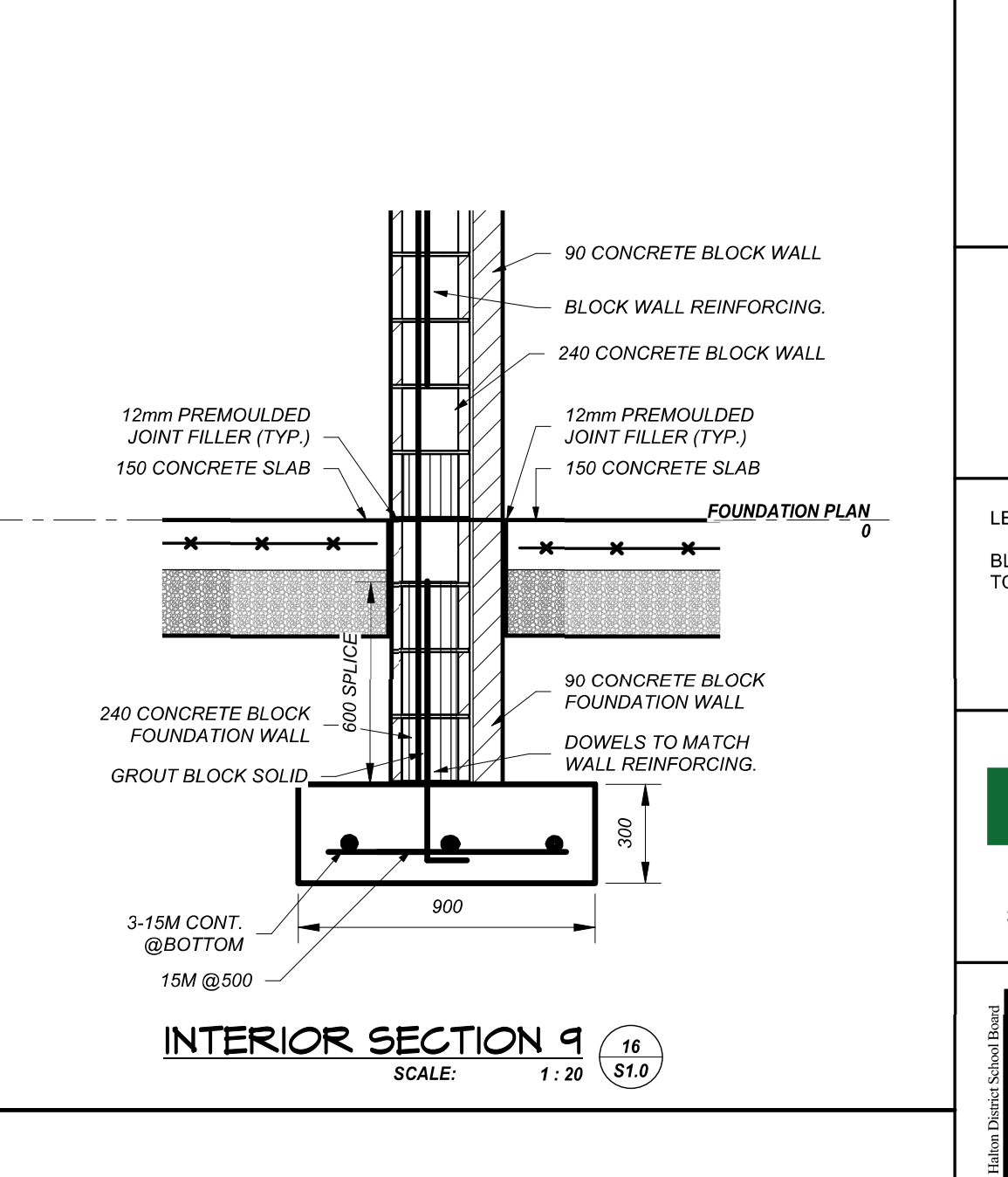
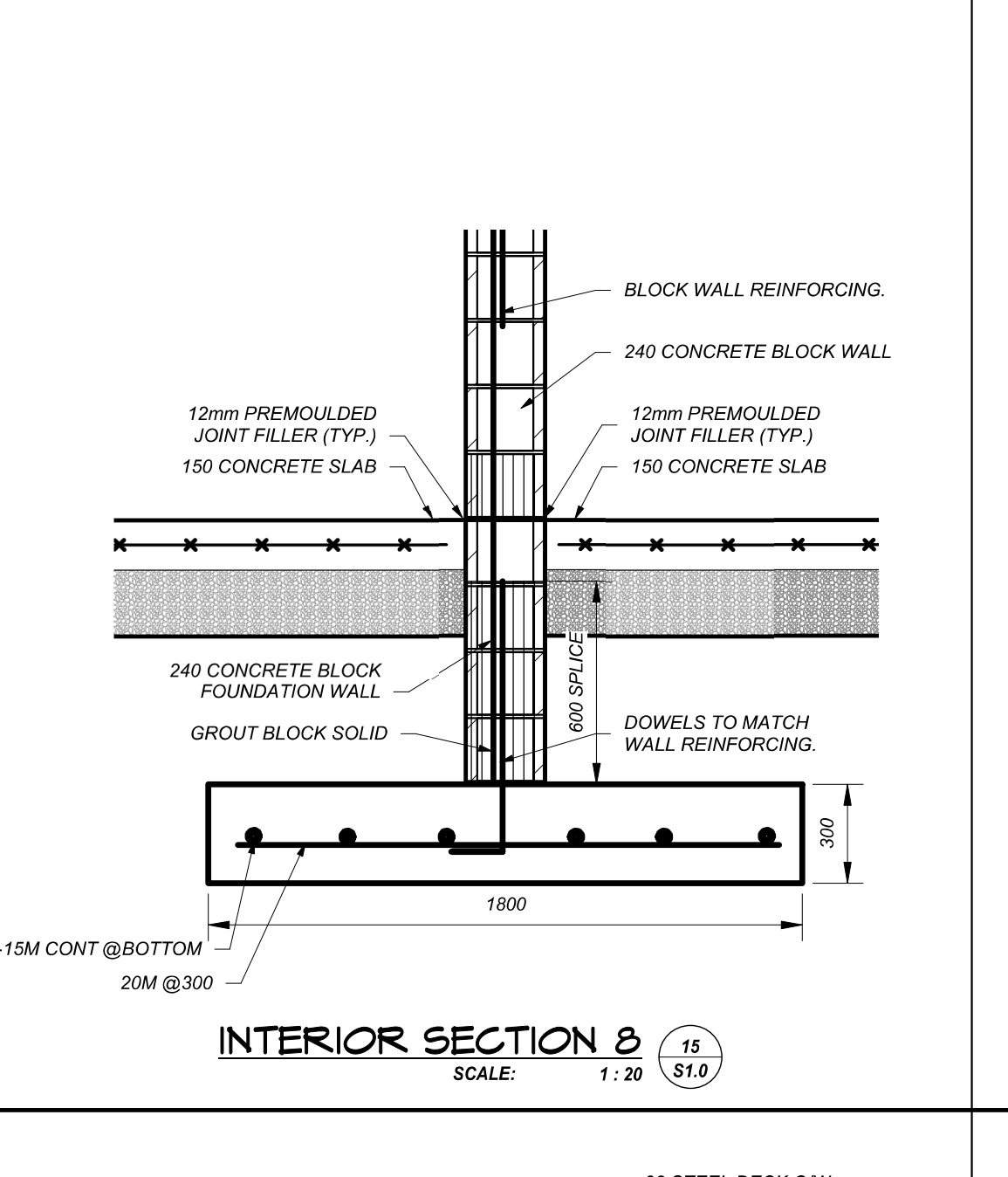
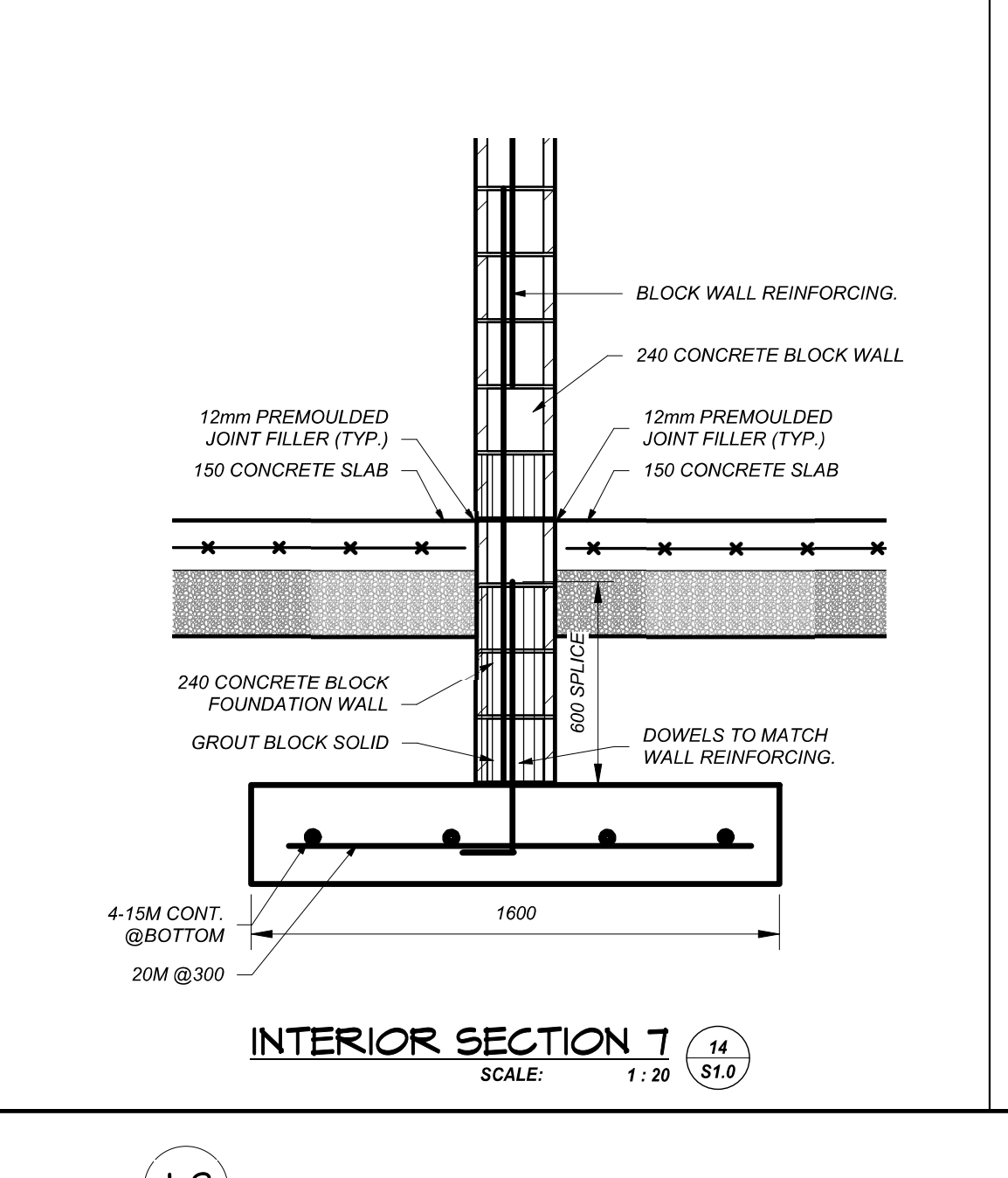
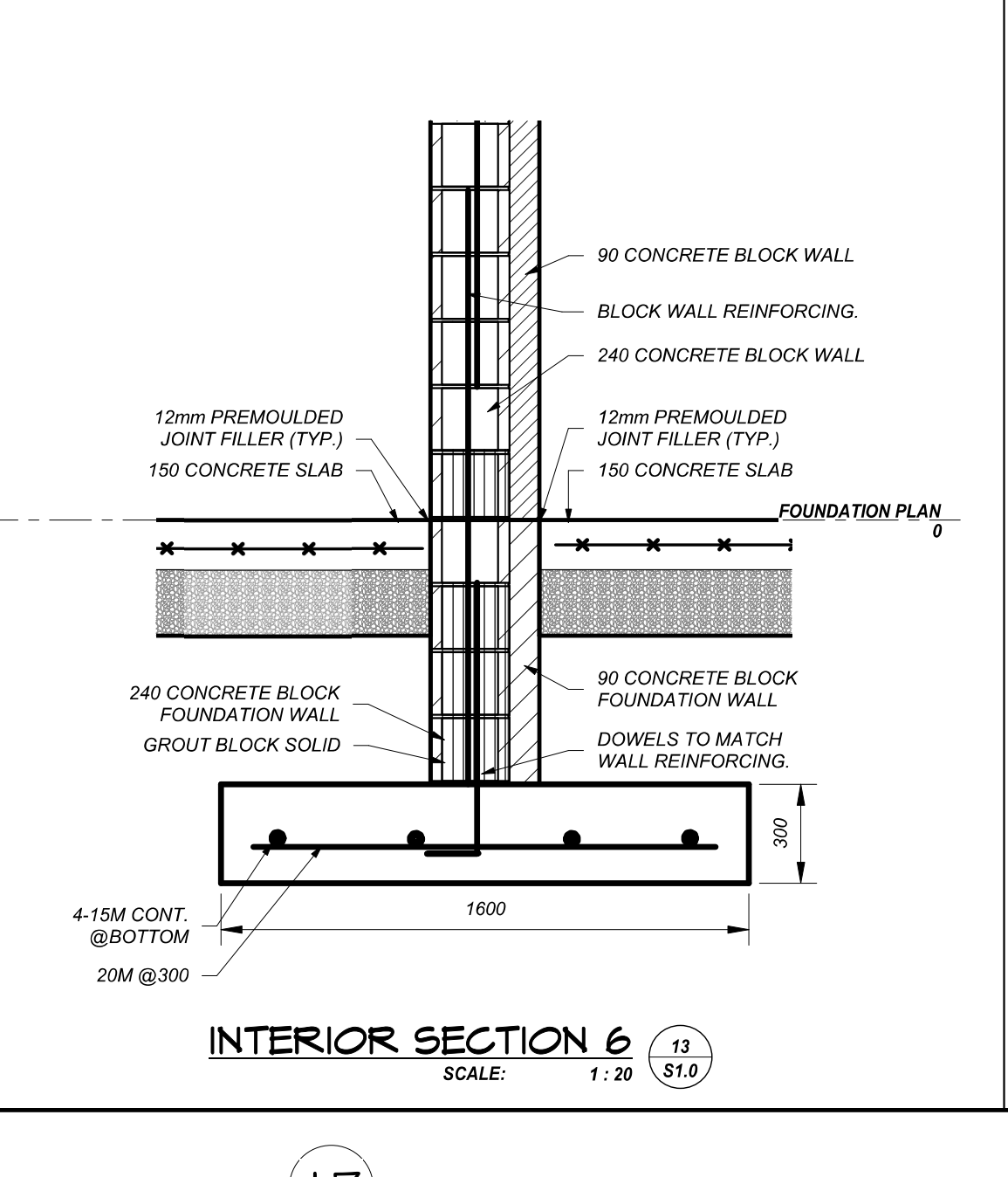
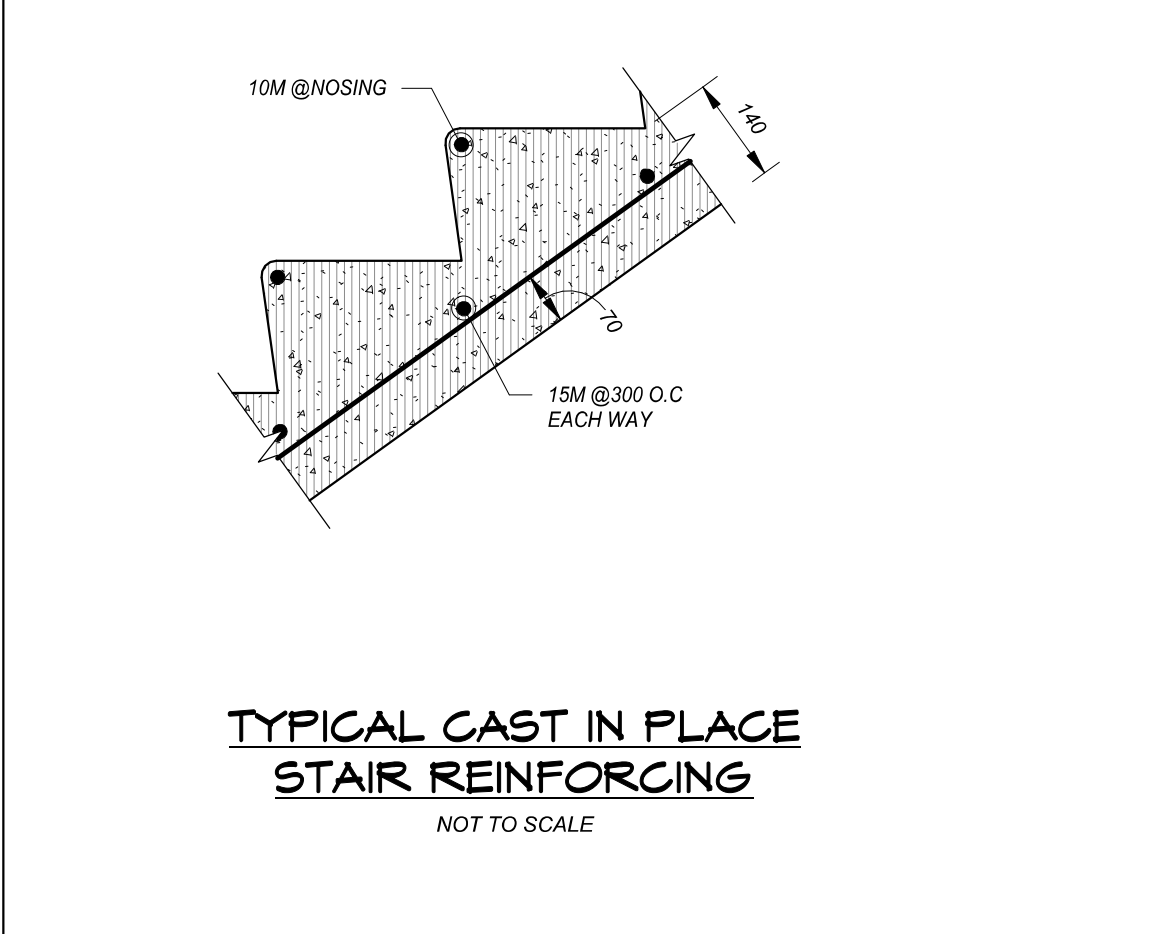
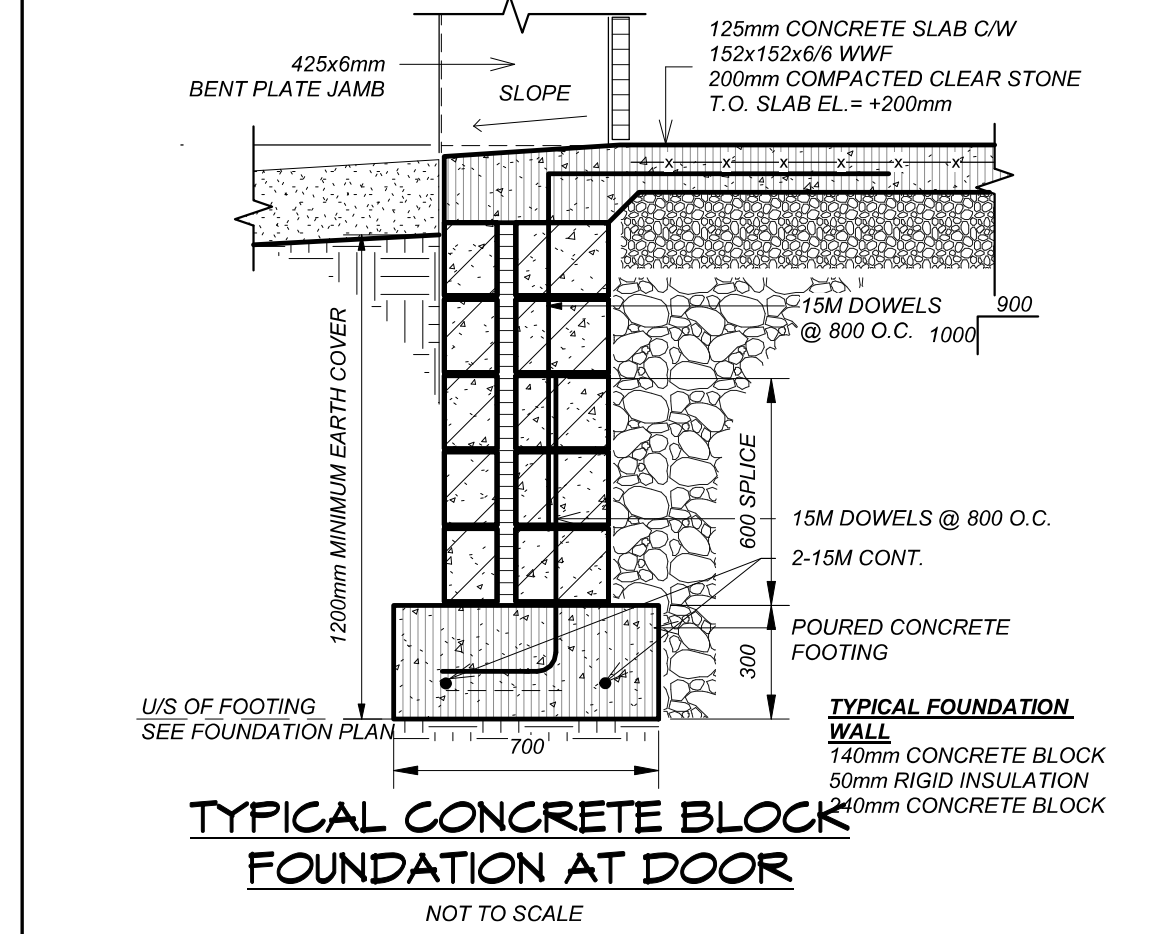
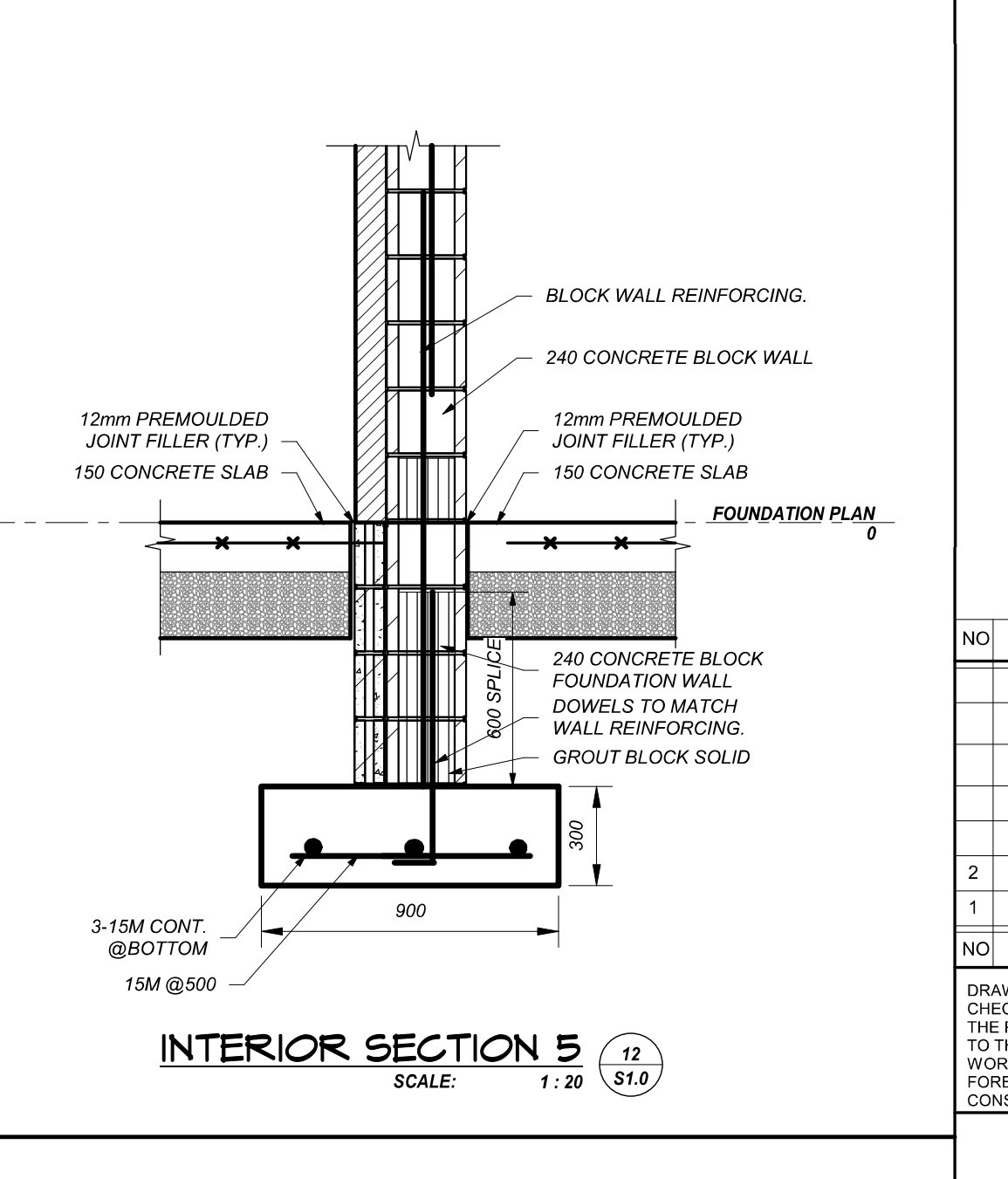
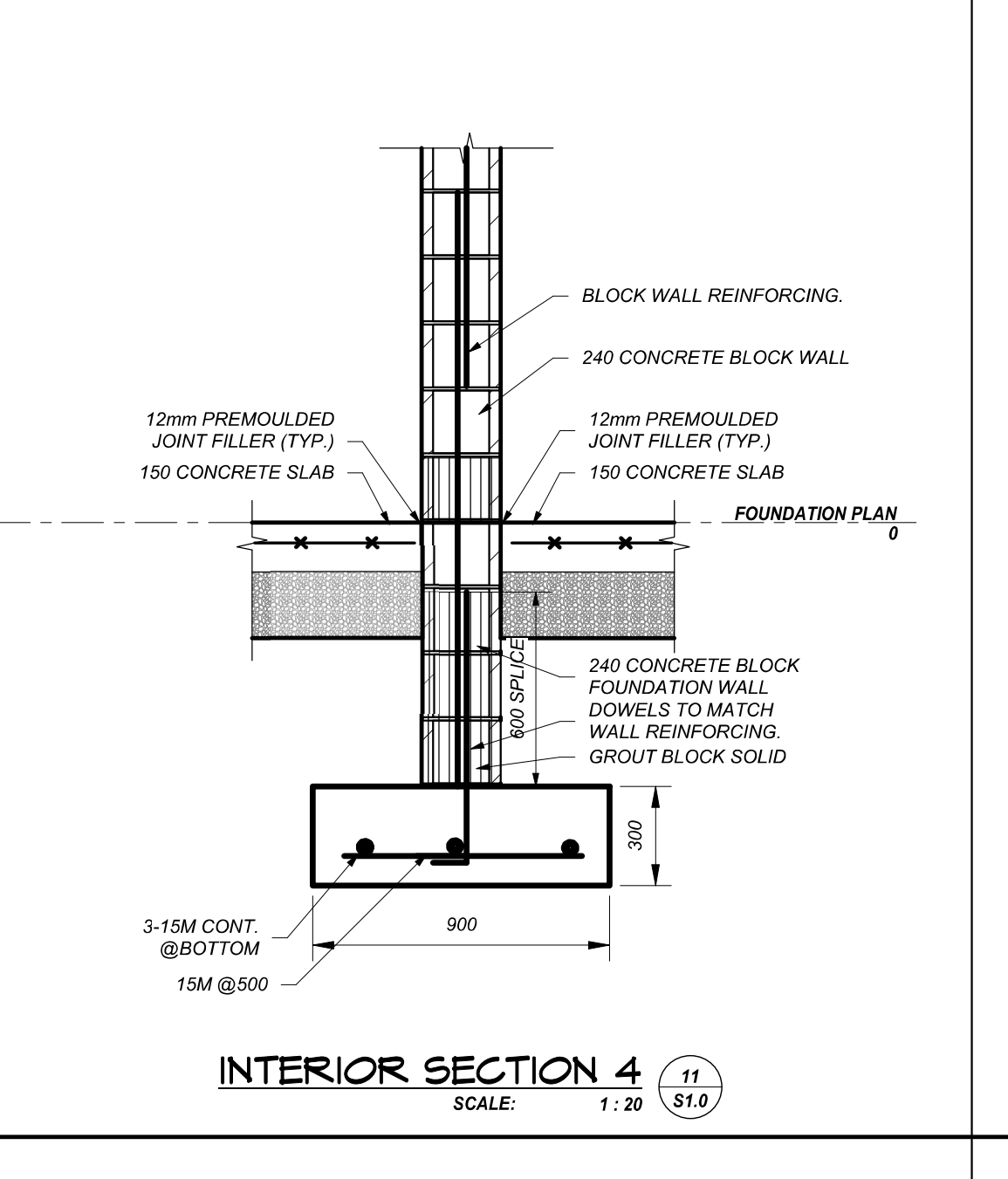
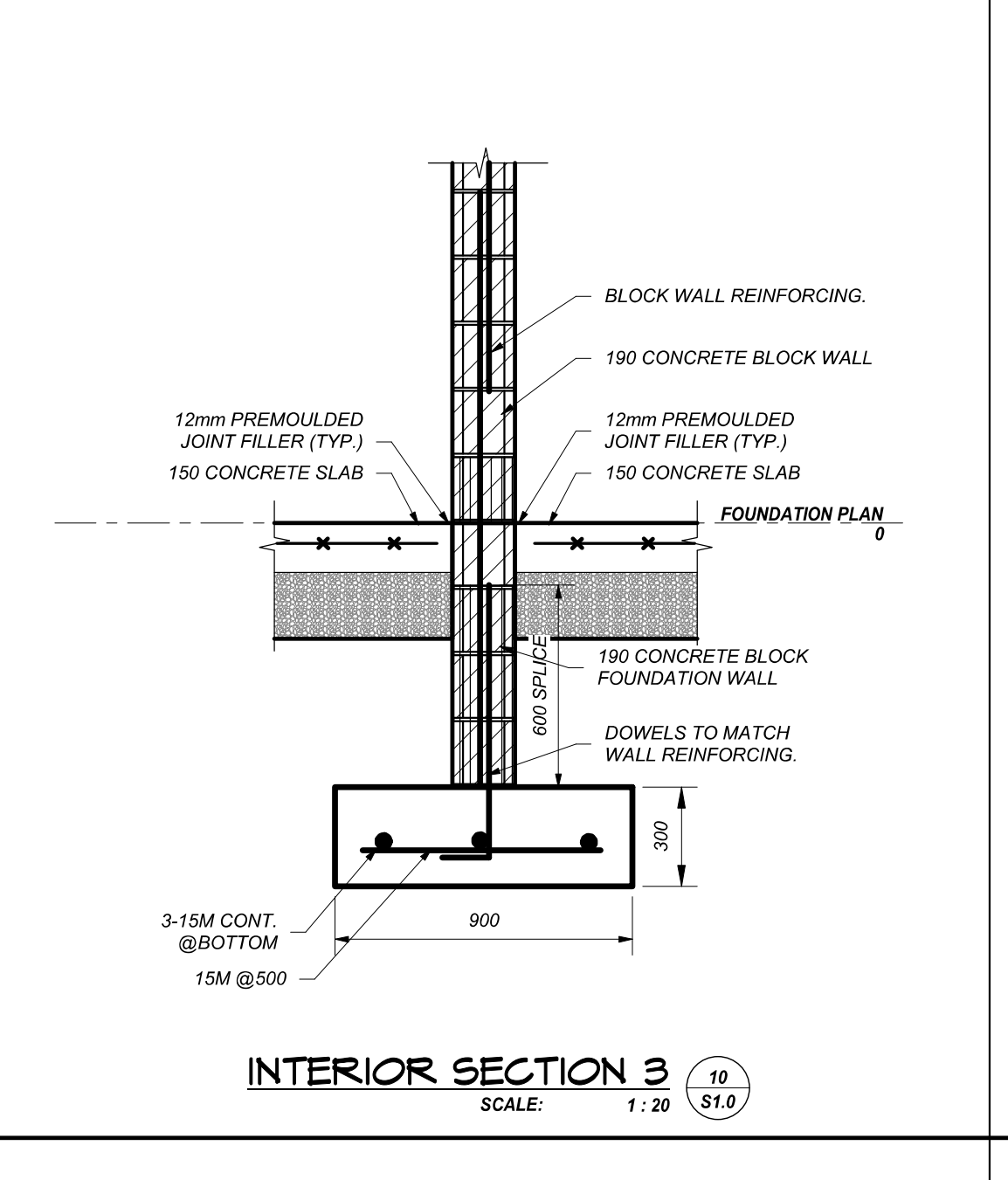
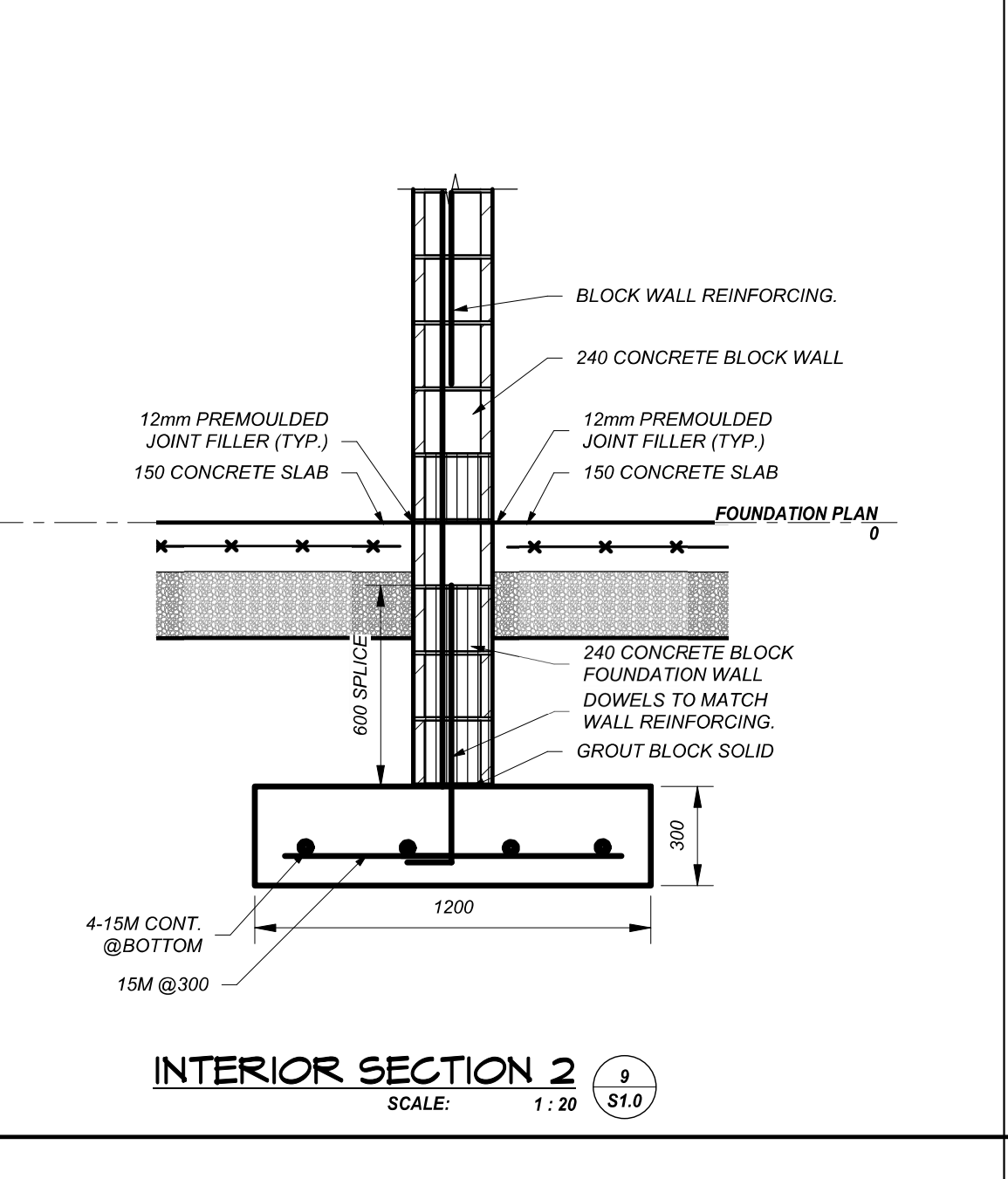
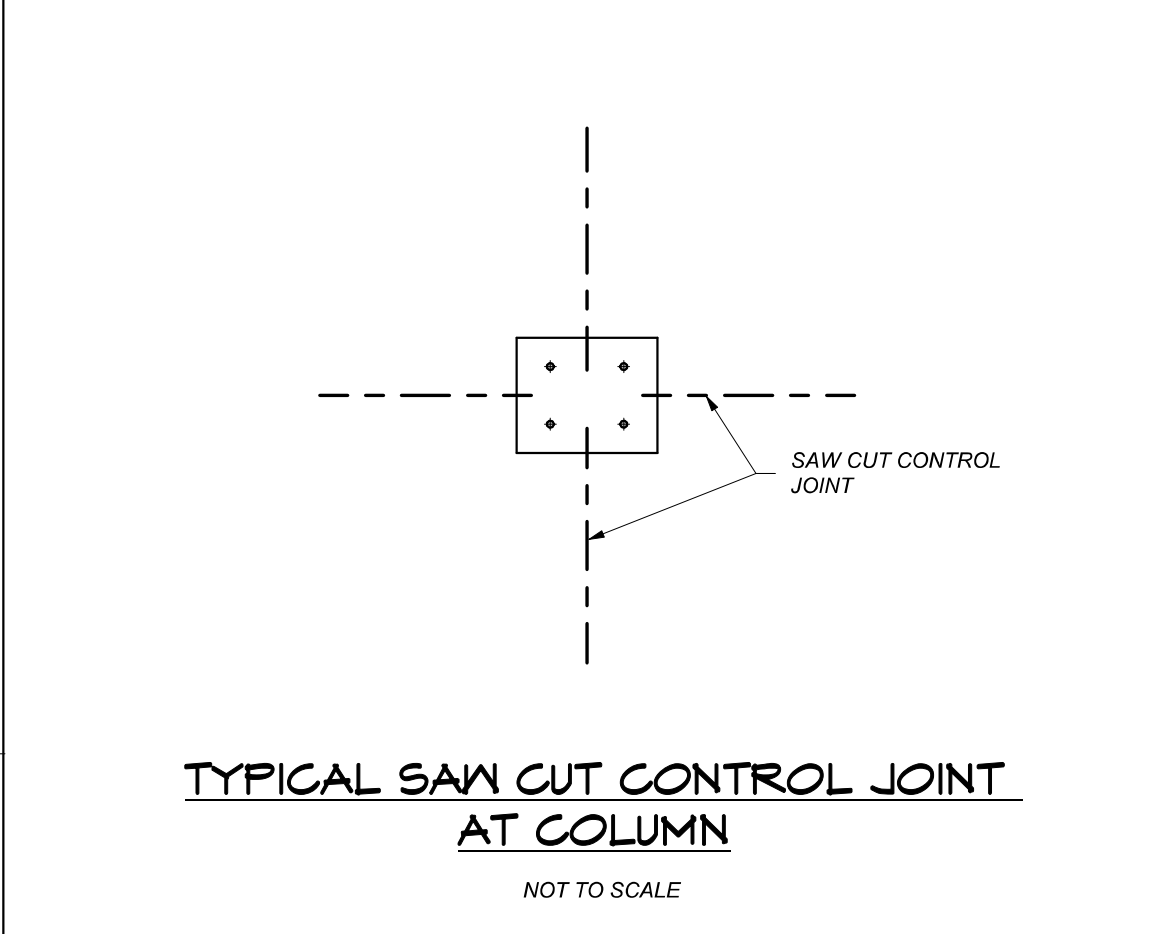
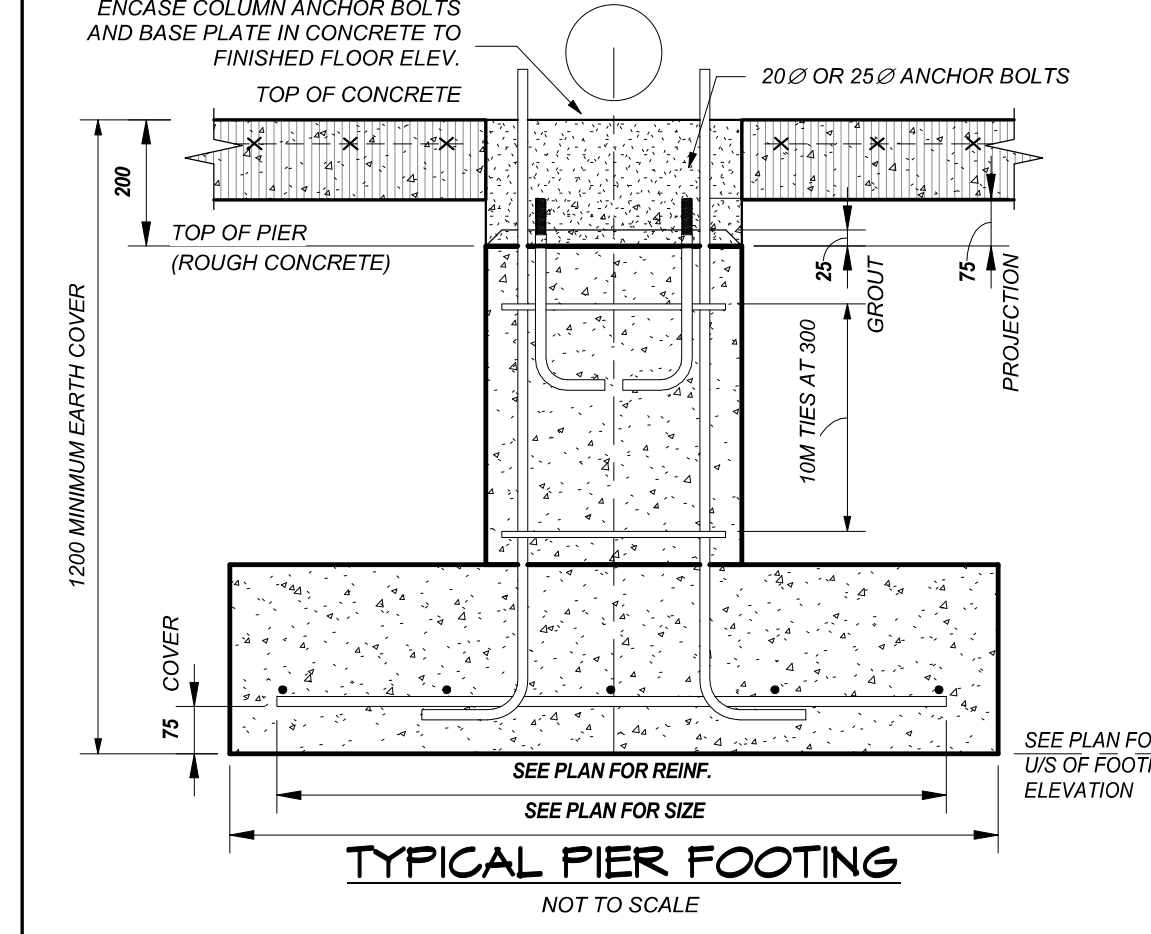
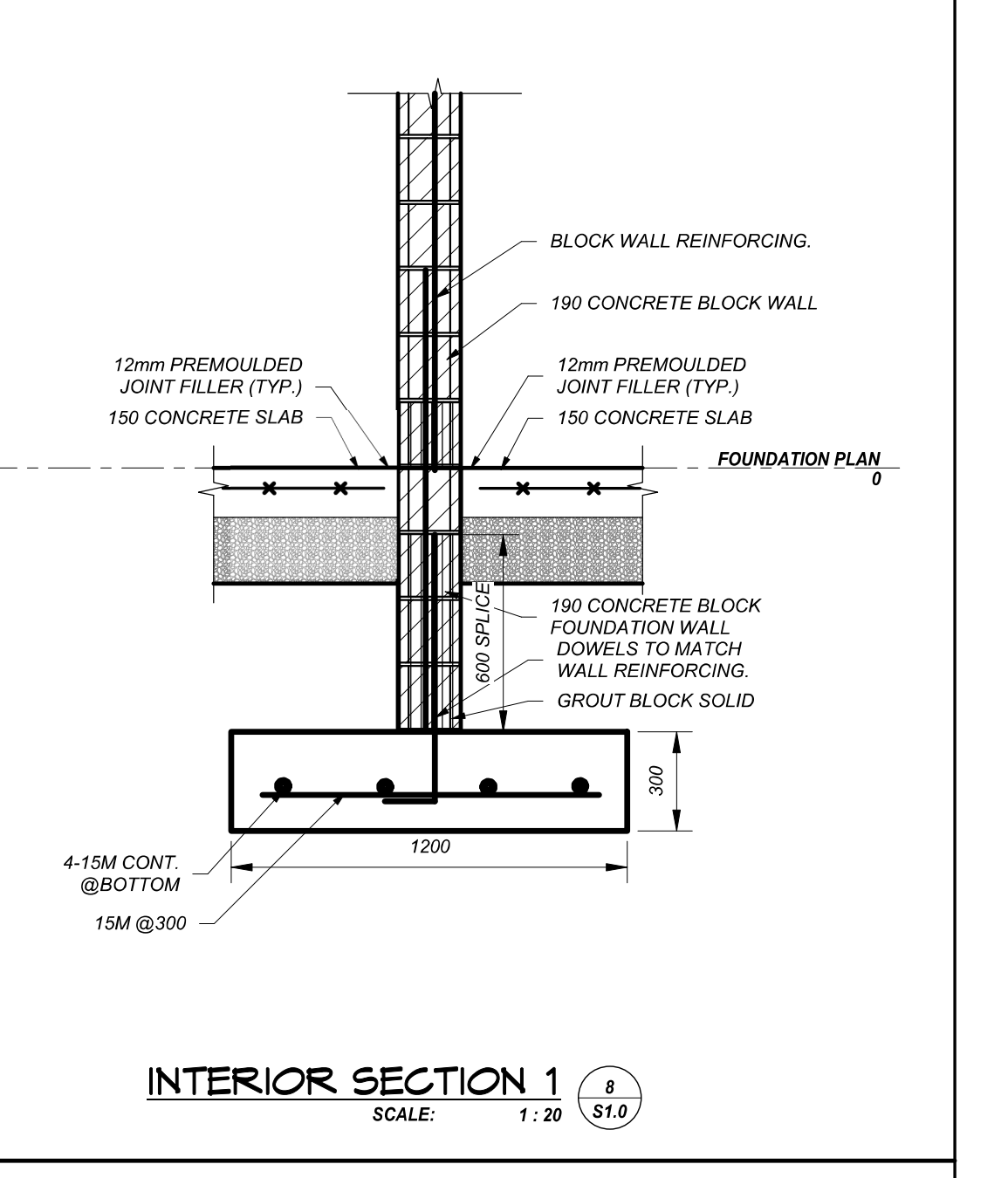
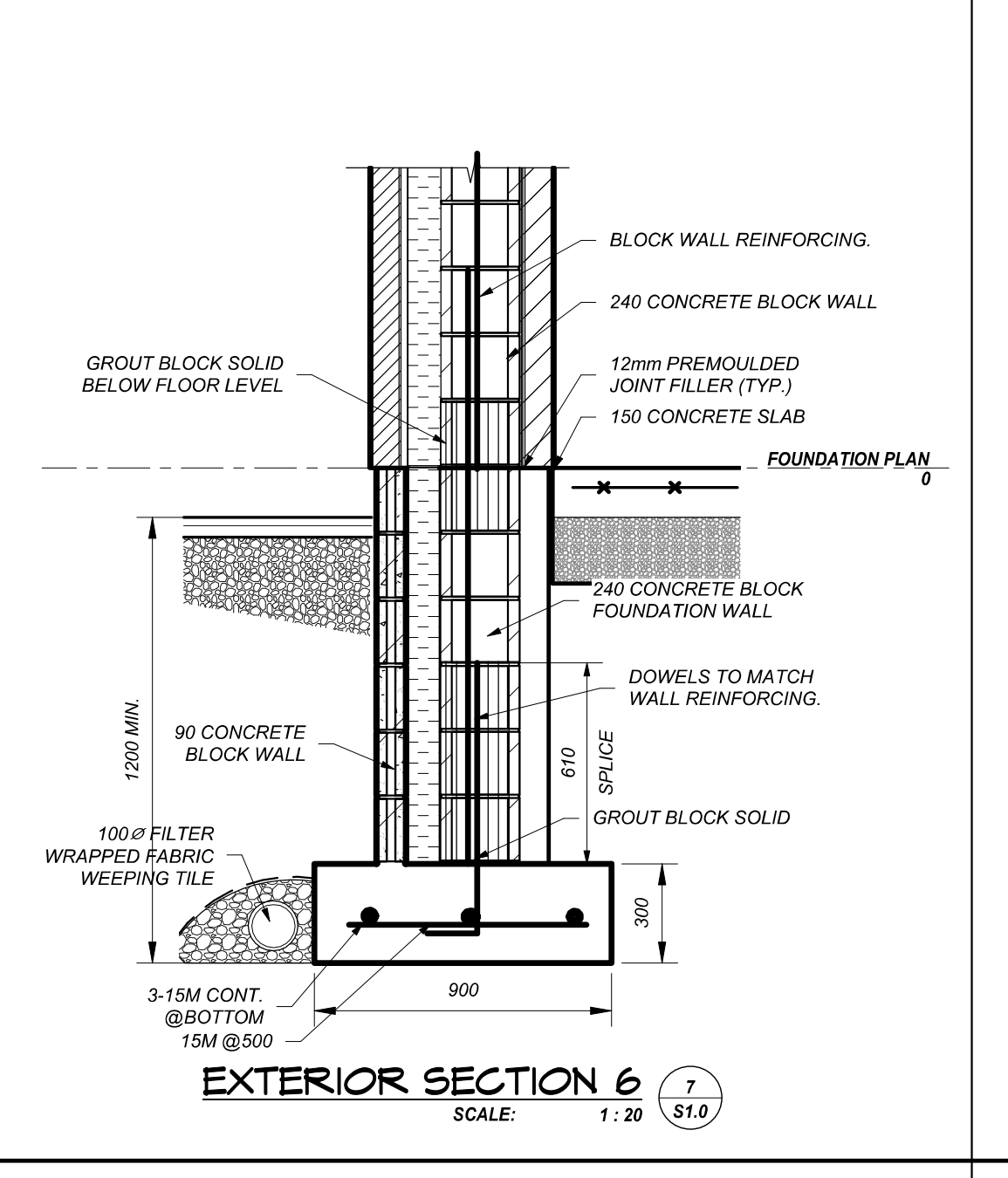
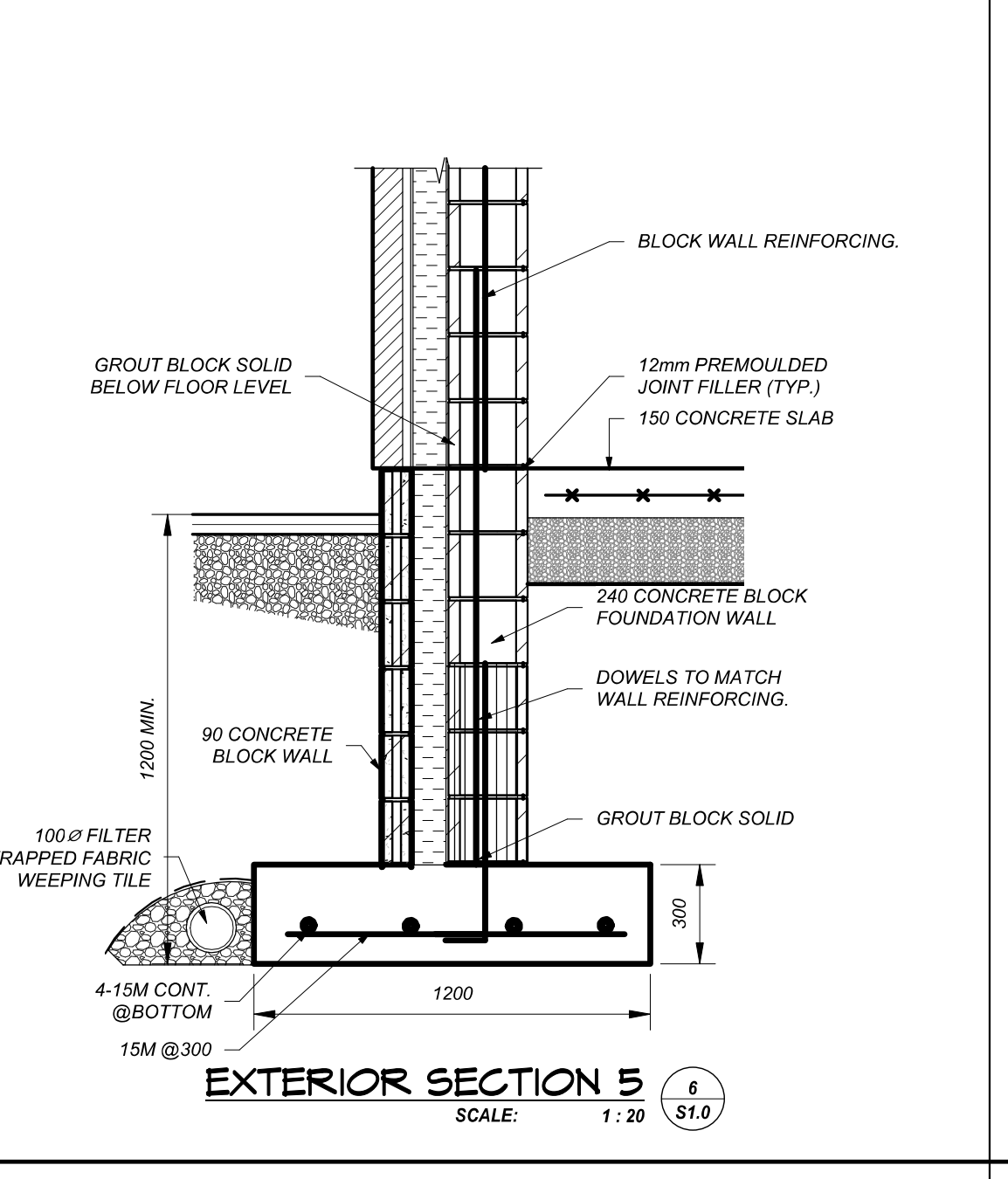
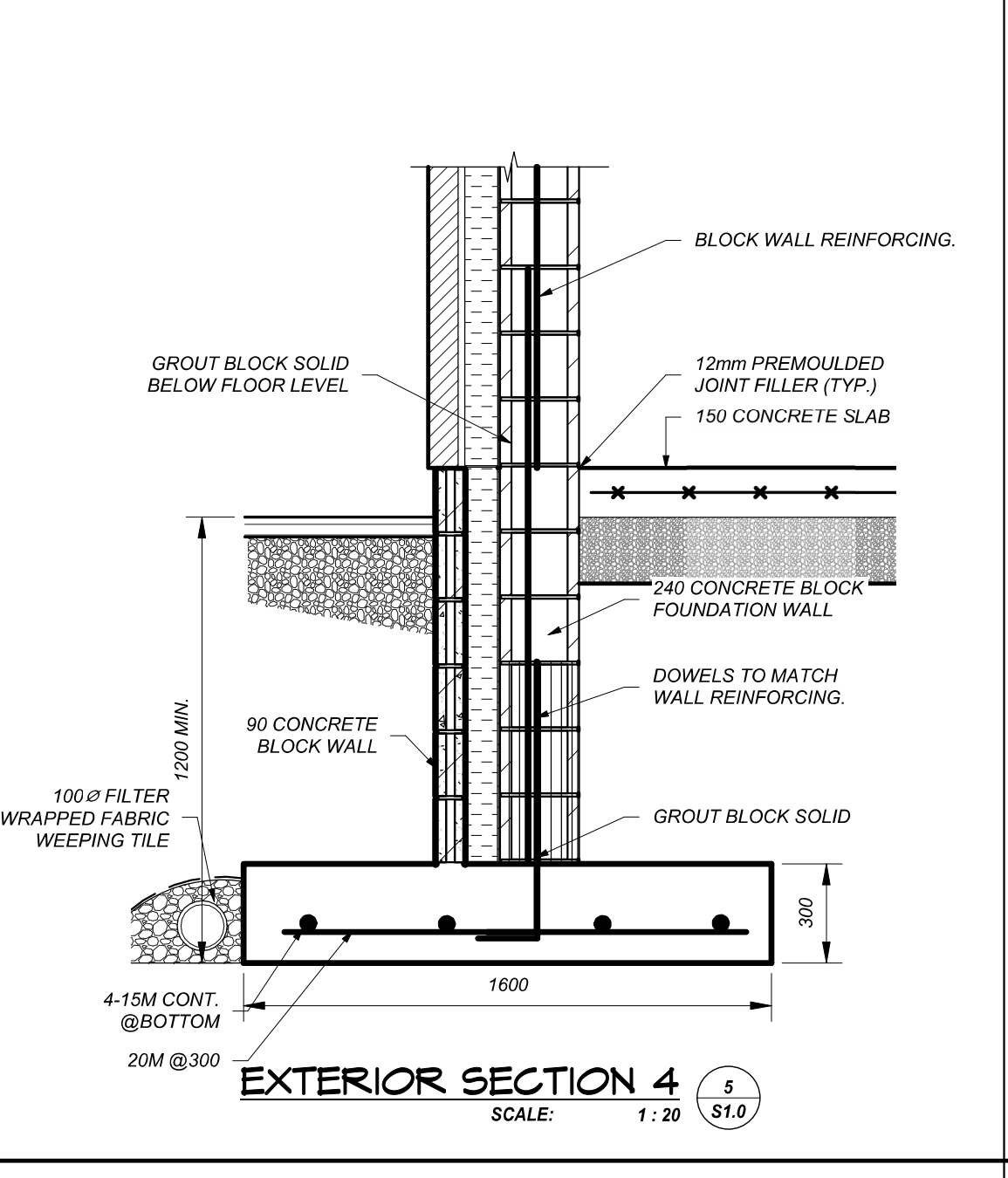
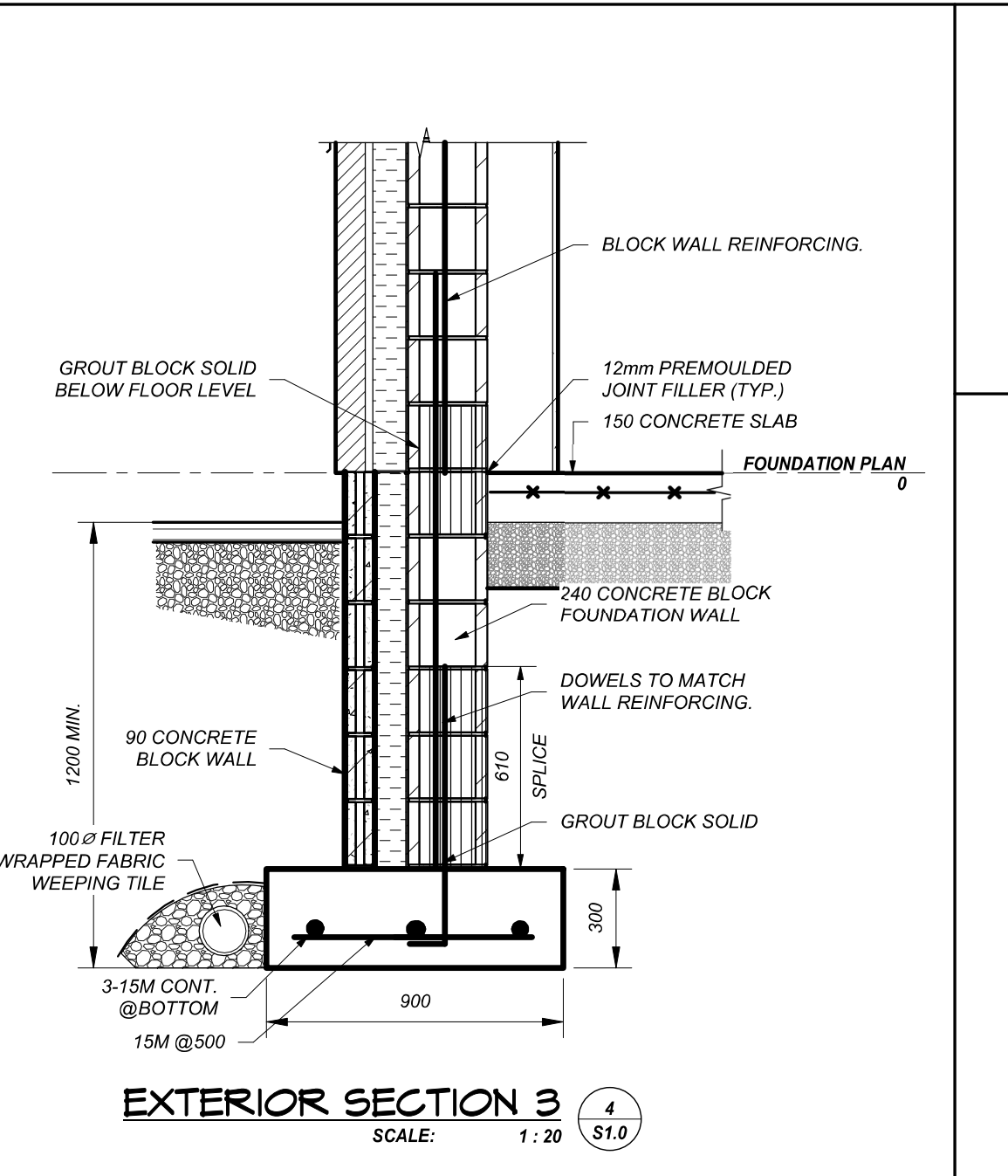
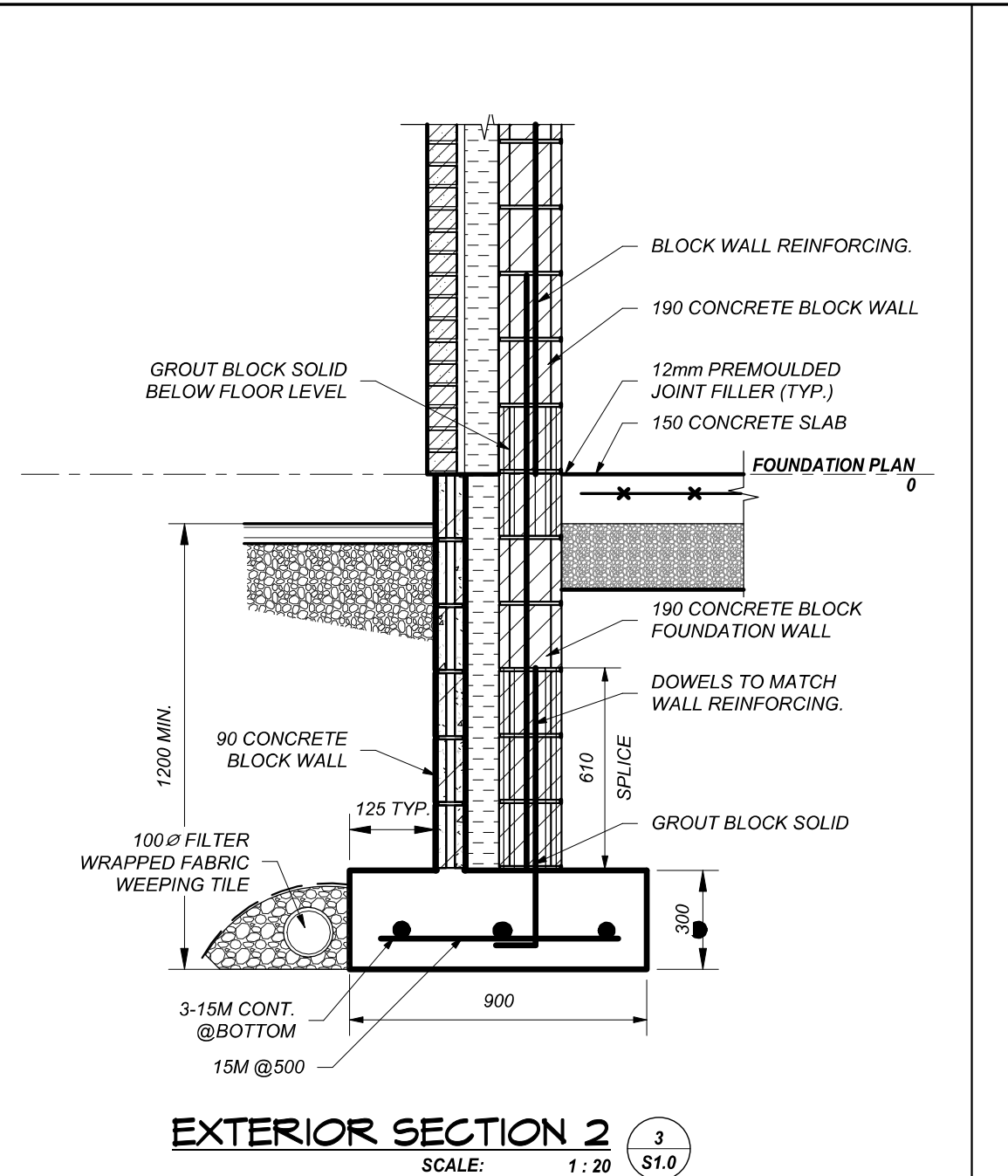
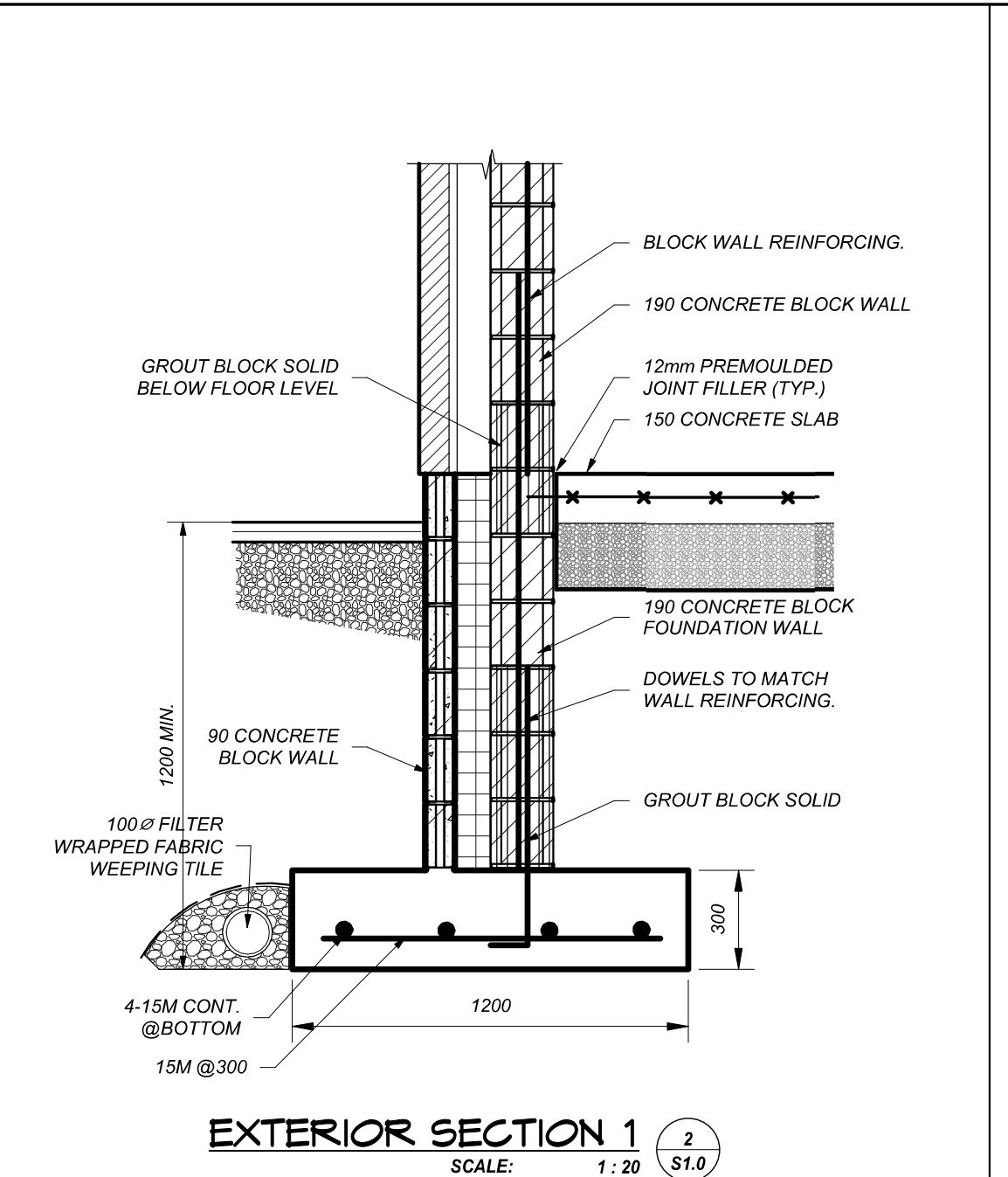
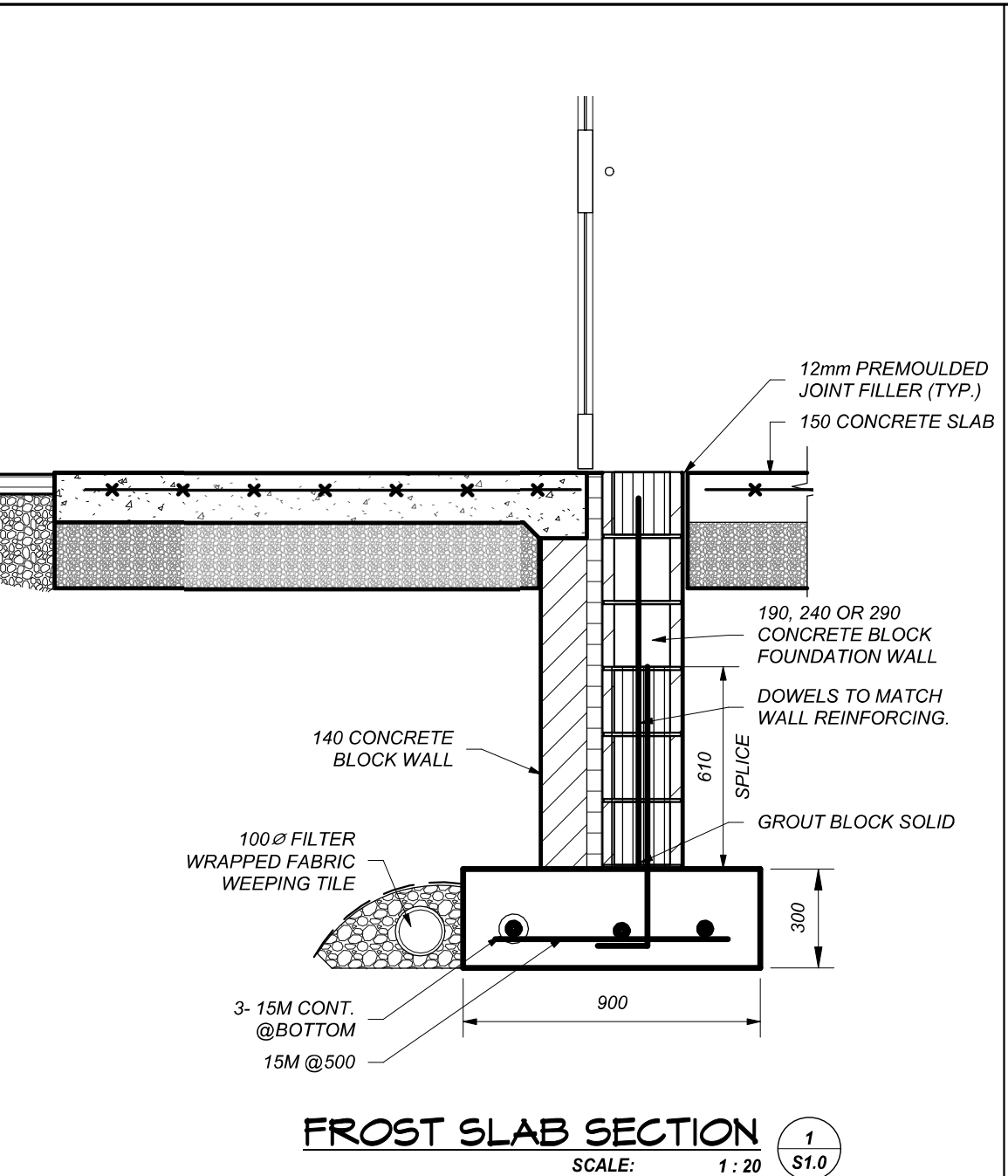
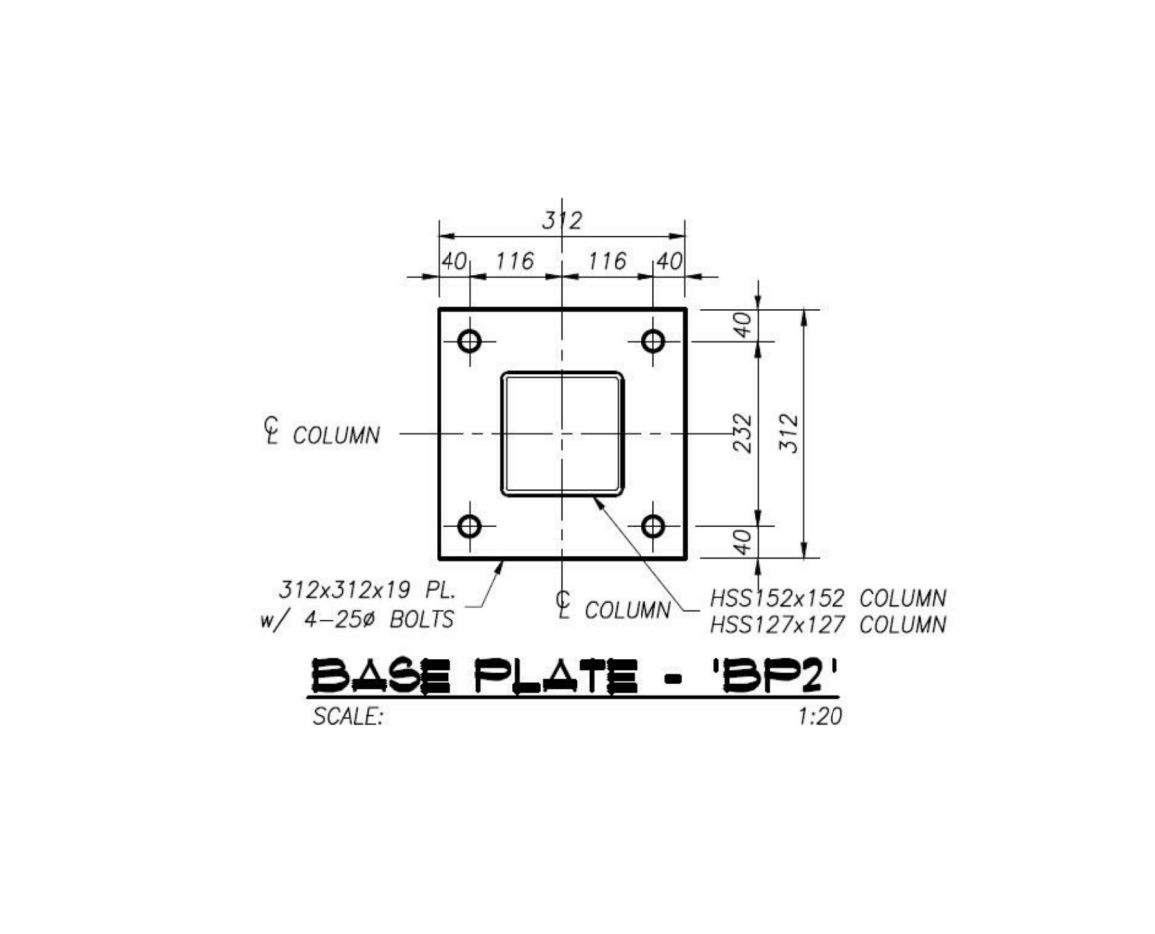
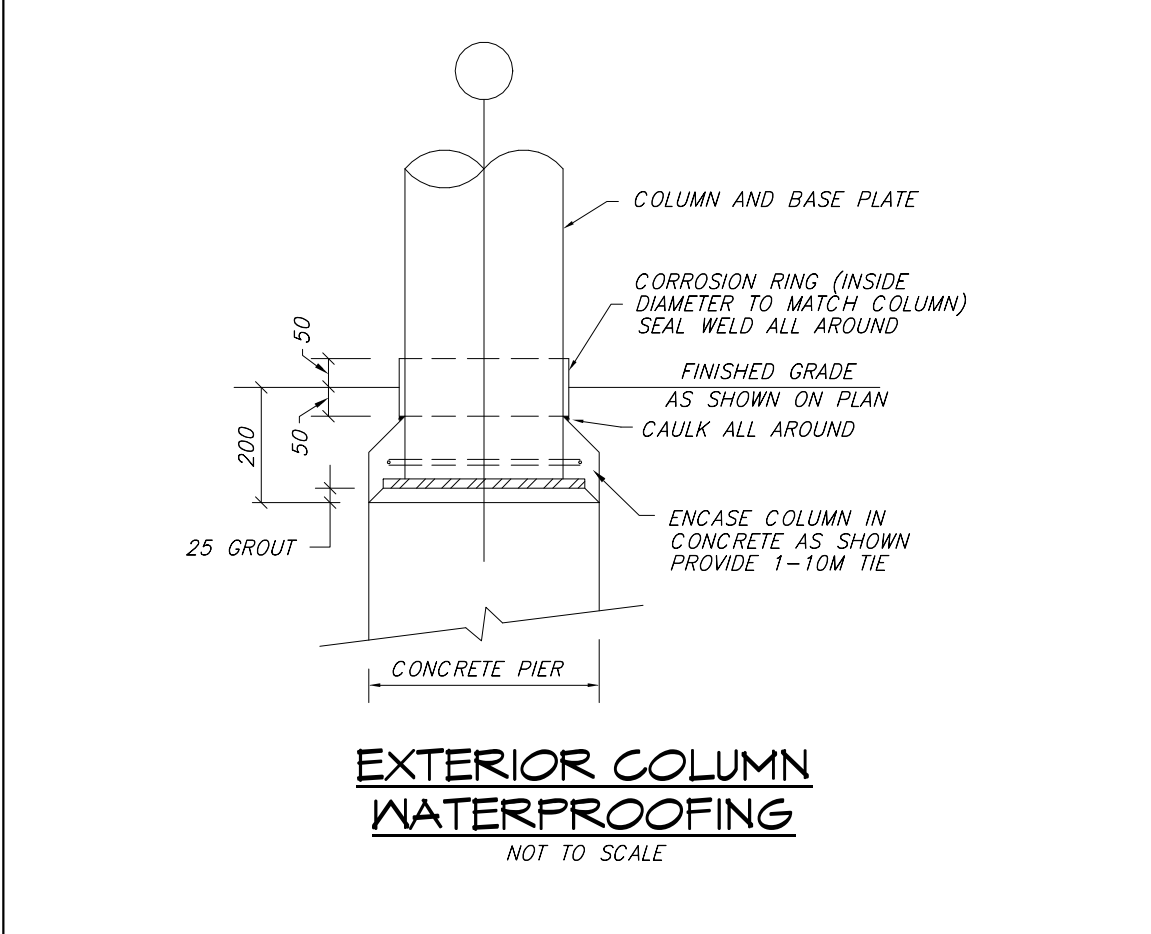
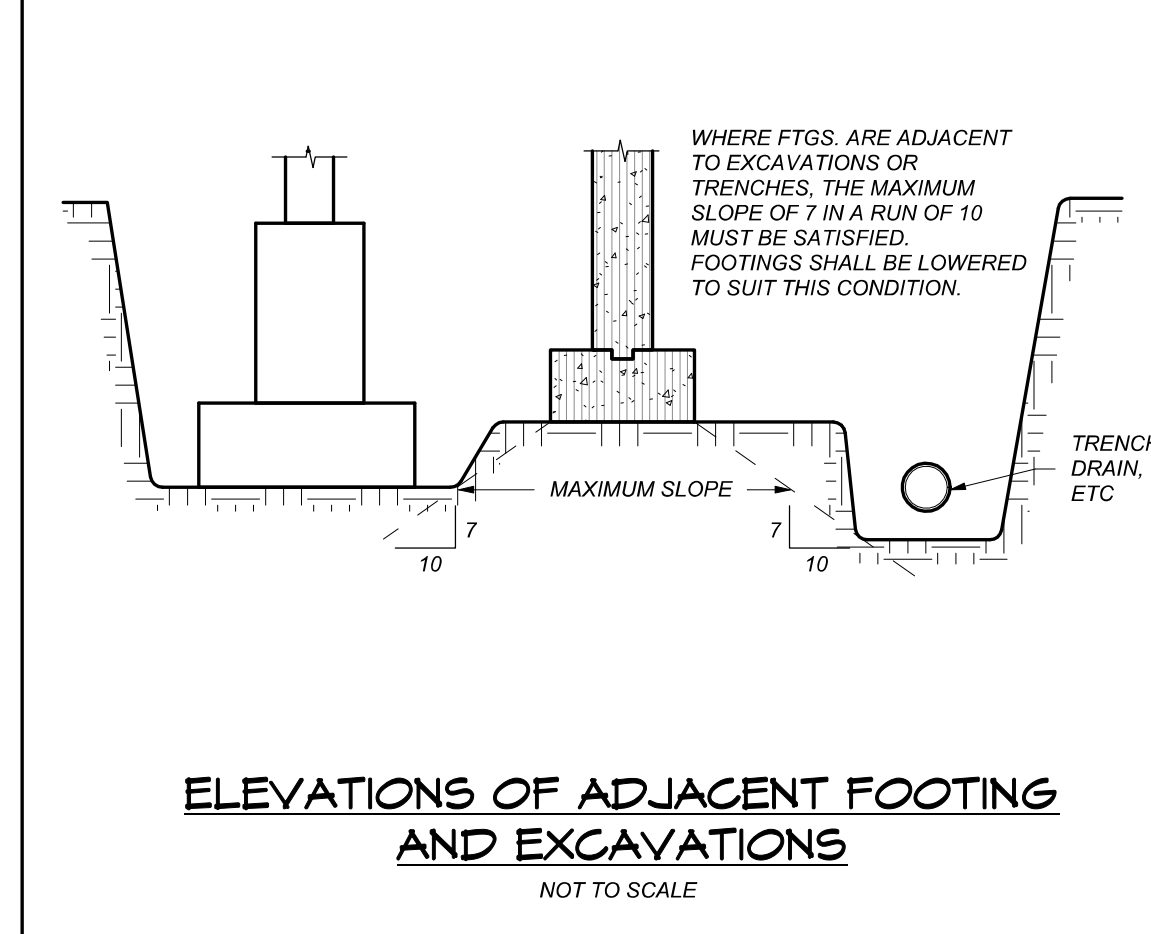
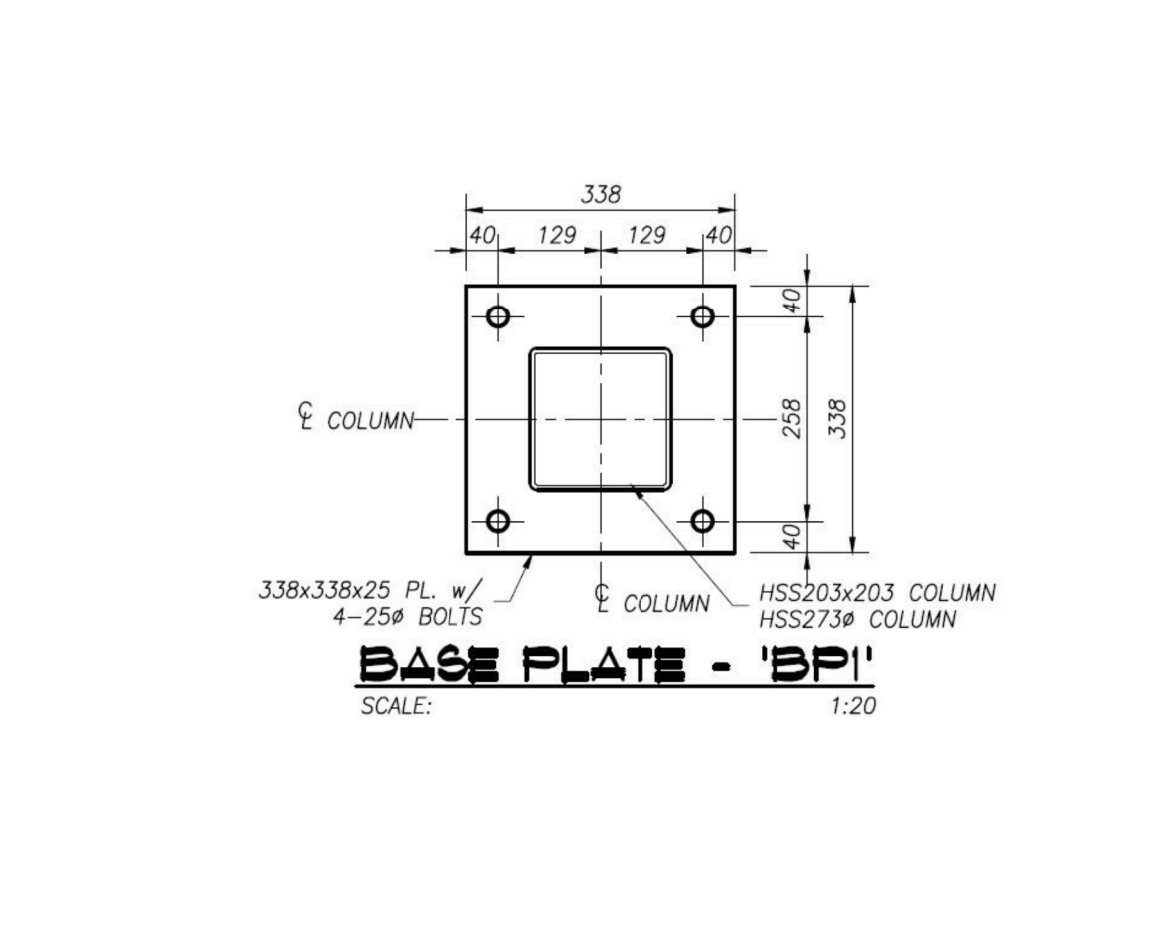
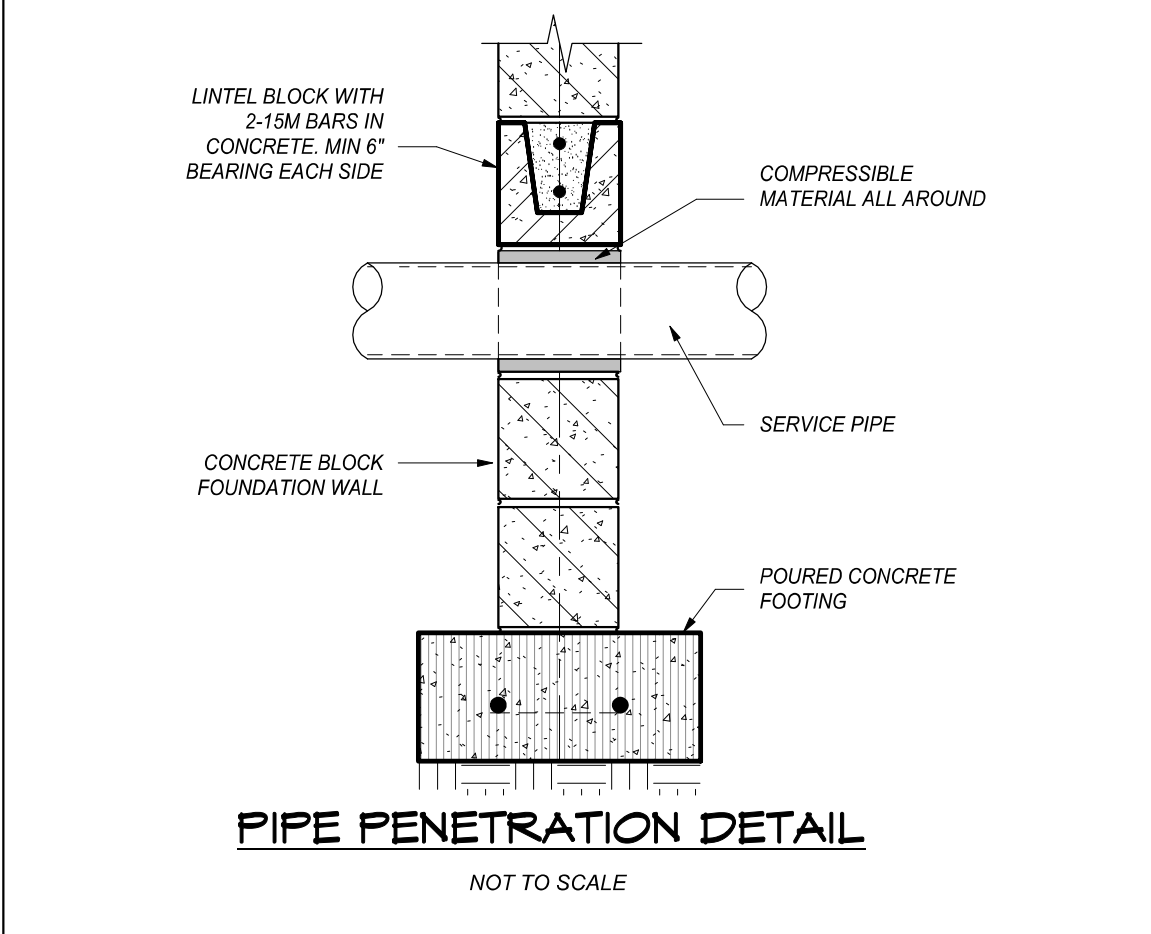
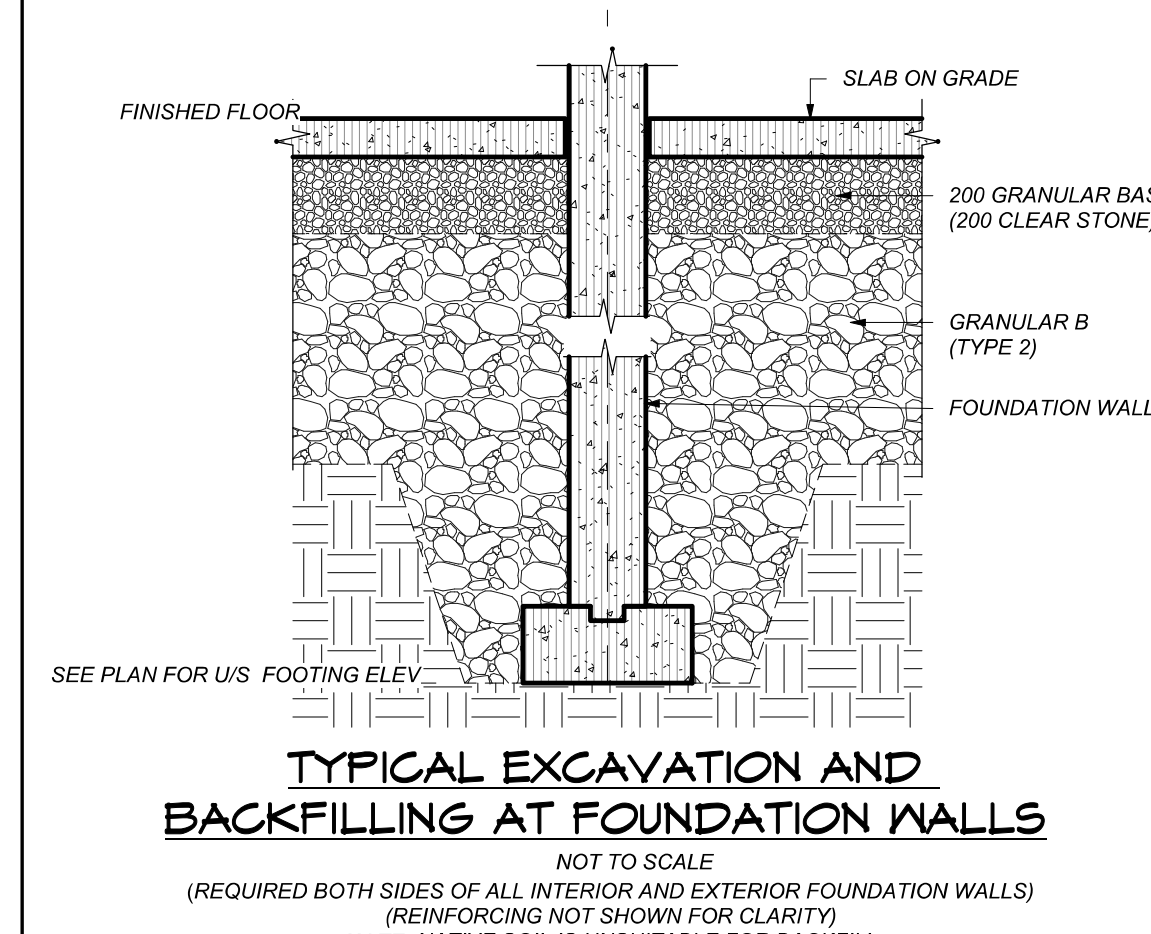
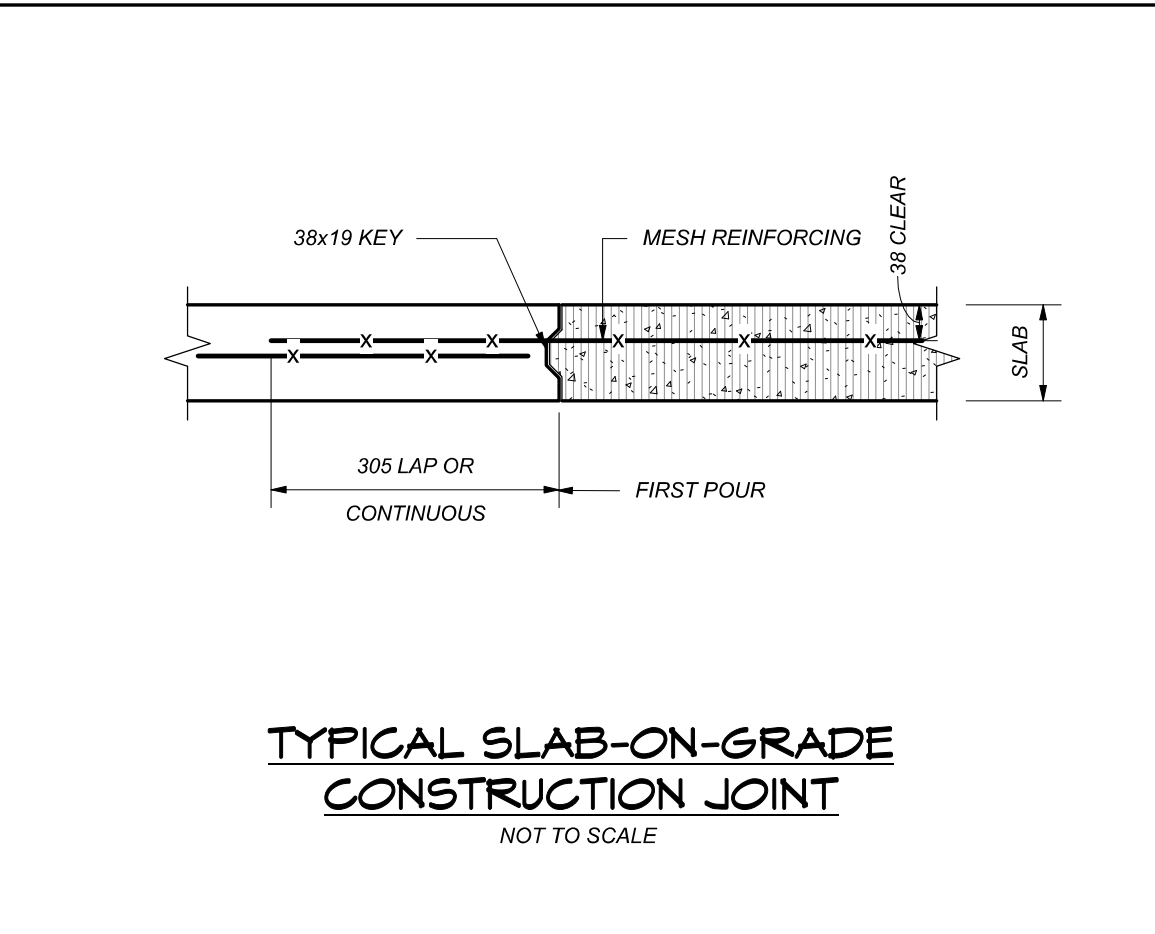
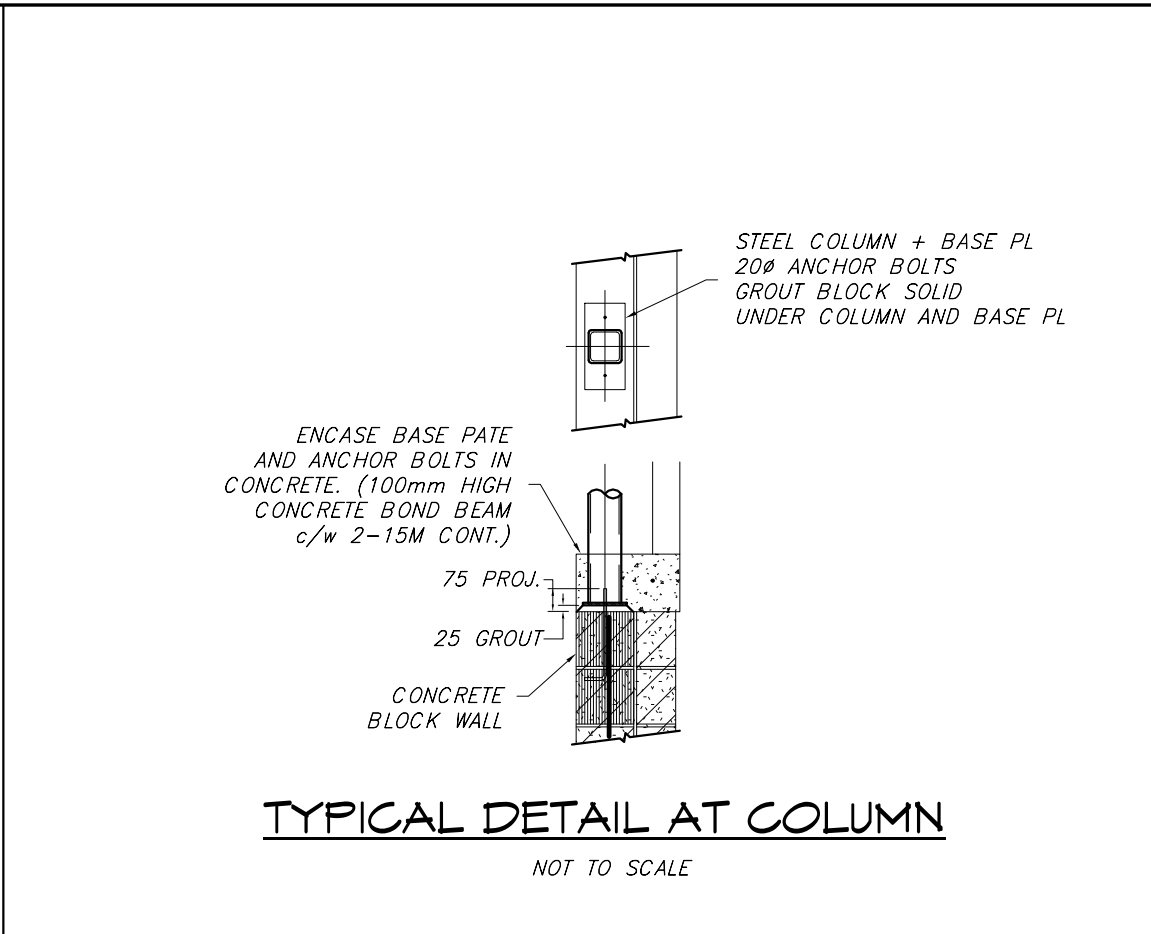
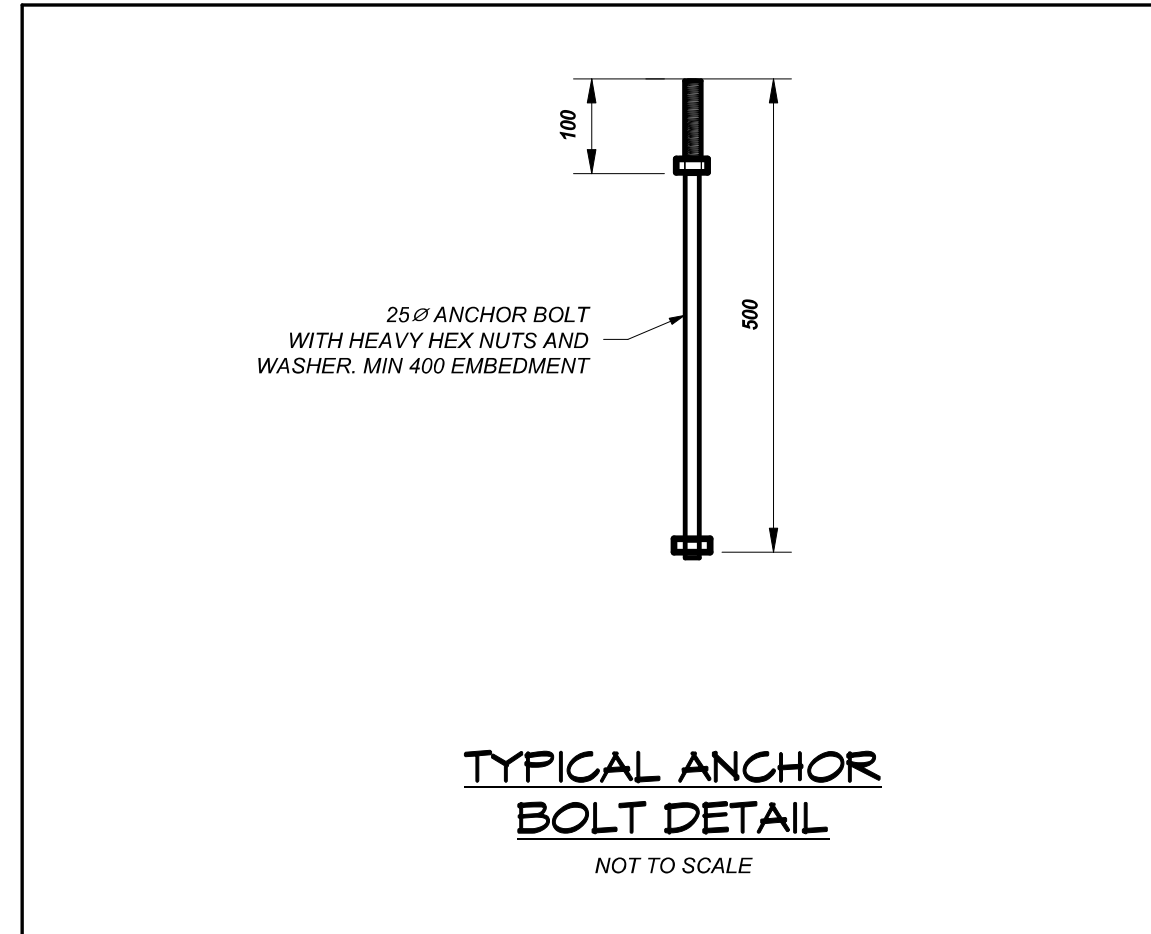
HALTON DISTRICT SCHOOL BOARD  
LAWRENCE EDUCATION CENTRE  
1050 GLENPHIL LINE  
BURLINGTON, ON. L7R 5Z2  
TEL: (905) 335-3602  
FAX: (905) 335-3602

**FOUNDATION PLAN**



SCALE: As indicated  
DATE: AUGUST, 2022  
DRAWN: SHUVE  
CHECKED: GF  
PROJECT: 22104  
DRAWING: S1.0  
PRINT DATE: 11/20/2022 11:24:25 AM  
REVIT FILE: T:\2015115\109102\Rev\HML\TON1010.rvt





NO.	REVISIONS	DATE
1	ISSUED FOR PERMIT	22-03-25
2	ISSUED FOR TENDER	23-01-04

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT. ANY DISCREPANCIES MUST BE REPORTED TO THE CONSULTANT IMMEDIATELY. THE CONSULTANT IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANT.

CERTIFICATE OF PRACTICE #4292  
**OAKVILLE #3 PUBLIC SCHOOL**  
1235 WHEAT BROOM DRIVE, OAKVILLE, ON

LEGAL DESCRIPTION:  
BLOCKS #1, REGISTERED PLAN 20A-1047  
TOWN OF OAKVILLE, REGION OF HALTON



300 YORK BLVD. HAMILTON, ONT. L8R 3K6  
PROJECT NO. 22087

**FOUNDATION DETAILS**

**HOSSACK & ASSOCIATES ARCHITECTS**

SCALE: As indicated  
DATE: AUGUST, 2022  
DRAWN: SHUVE  
CHECKED: GF  
PROJECT: 22104  
DRAWING: S2.0  
PRINT DATE: 11/29/2022 11:25:03 AM  
REVIT FILE: T:\2021\115109\2022\Rev\HAMILTON\101

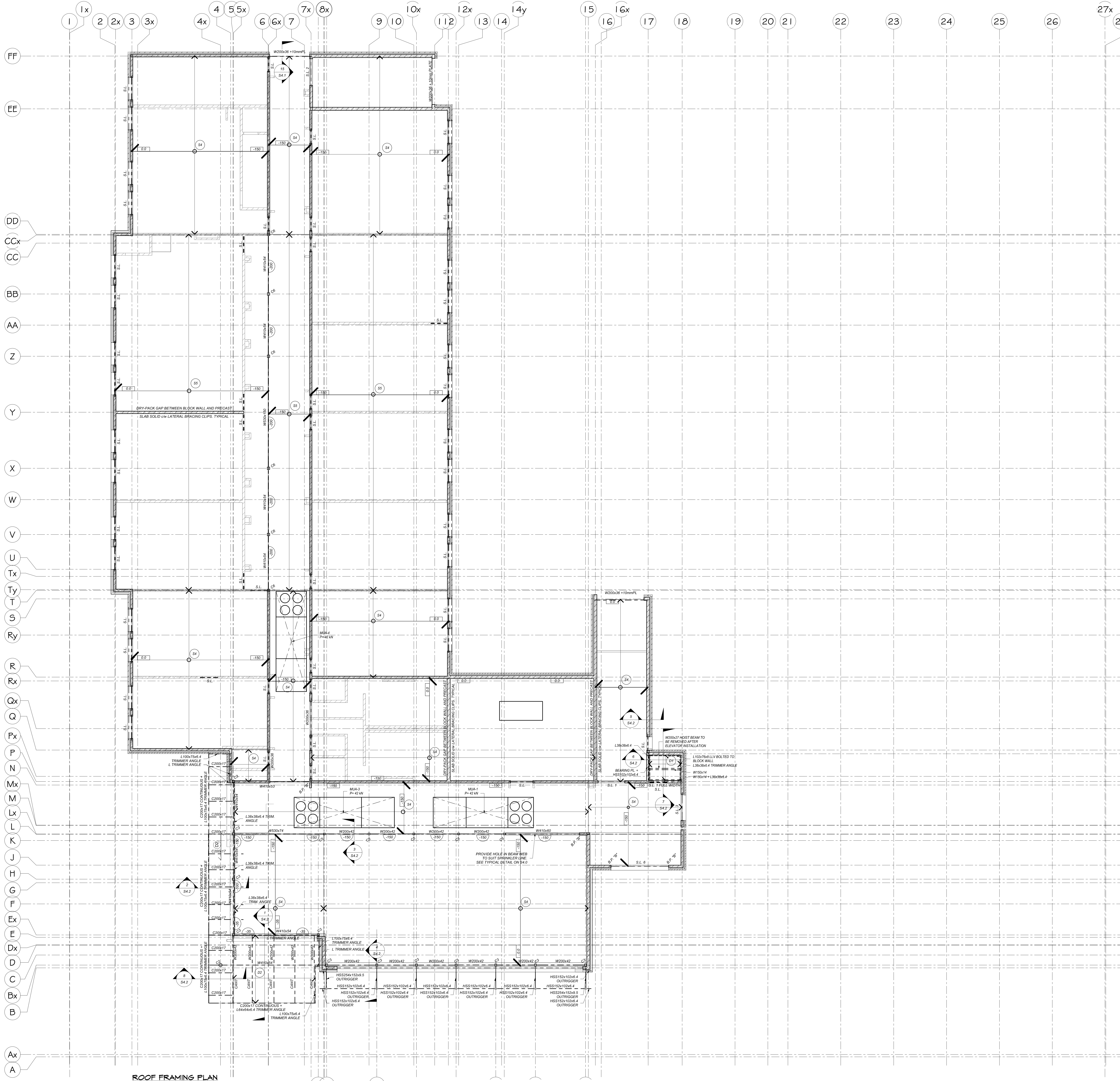






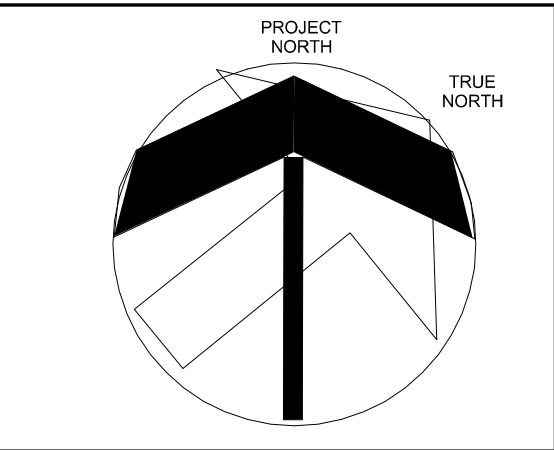
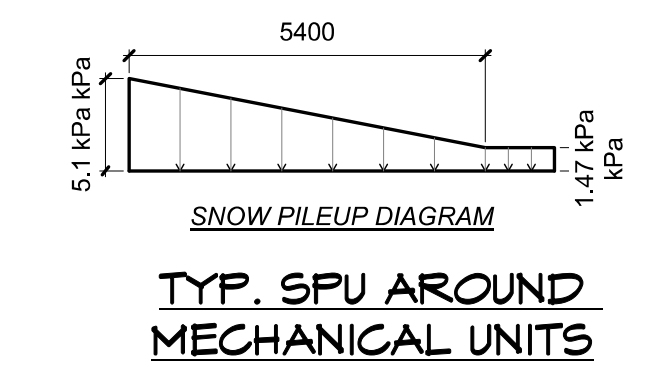






- FRAMING NOTES**
- TOP OF STEEL ELEVATION 1170 UNLESS NOTED THUS [S4.2]
  - TOP OF PRECAST SLAB 1000 UNLESS NOTED THUS [S4.2]
  - REFER TO ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS FOR DIMENSIONS
  - REFER TO DRAWING S0.0 FOR NOTES AND S4.0 STANDARD DETAILS AND FOR CONCRETE BLOCK WALL REINFORCING
  - REFER TO ARCHIT. MECH. AND ELEC. DWGS. FOR SIZE AND LOCATION OF ALL OPENINGS IN BLOCK WALLS. SEE LINTEL SCHEDULE DRAWINGS S4.1 FOR LINTEL SIZES.
  - ELEVATION SHOWN FOR TOP OF JOISTS AND ROOF CHANNELS ARE APPROXIMATE ONLY. REFER TO ARCHIT. ROOF PLAN FOR DRAW LOCATIONS AND SET STEEL TO FALL EVENLY TO DRAW.
  - REFER TO S0.0 FOR PRECAST SLAB CONFIGURATION AND LOADING.
  - REFER TO S0.0 FOR COLUMN SCHEDULE.
  - PROVIDE STEEL LINTELS FOR ALL OPENINGS AS SHOWN ON ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS NOT ALL SHOWN ON THIS DRAWING REFER TO S4.0 FOR SIZES. PROVIDE LINTELS AT ALL DUCT OPENINGS. ALL LINTELS SHALL BE PROVIDED BY THE STRUCTURAL STEEL TRADE.
  - COORDINATE PRECAST SLABS WITH MECHANICAL EQUIPMENT & ASSOCIATED PENETRATIONS.

- STAIR FRAMING NOTES**
- THE HANDRAILS MUST BE DESIGNED TO WITHSTAND LOADING AS SPECIFIED IN O.S.C. DIV. 8, ARTICLE 34.4.4. & GUARD RAILS MUST BE DESIGNED TO WITHSTAND LOADING AS SPECIFIED IN ARTICLES 4.1.1.6, 4.1.1.7. SHOP DRAWINGS ARE TO BE STAMPED BY A PROFESSIONAL ENGINEER.



NO.	REVISIONS	DATE
1	ISSUED FOR PERMIT	22-08-20
2	ISSUED FOR TENDER	23-01-04

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT. ANY DISCREPANCIES OR OMISSIONS ARE TO BE CORRECTED BY THE CONTRACTOR PRIOR TO THE START OF WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORWARDED WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

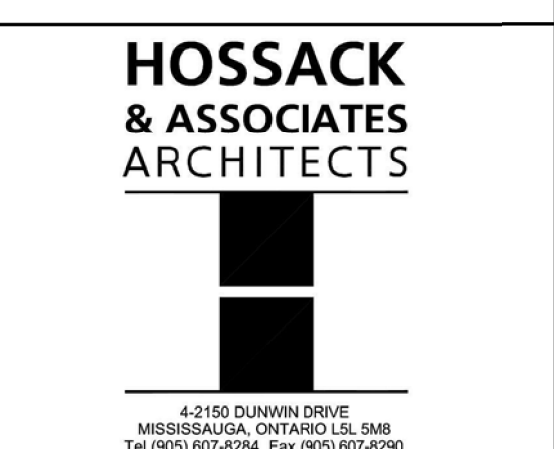
CERTIFICATE OF PRACTICE #4292  
**OAKVILLE #3 PUBLIC SCHOOL**  
1235 SHEAR BOOM DRIVE  
OAKVILLE, ON

LEGAL DESCRIPTION:  
BLOCKS #1, REGISTERED PLAN 2004-047  
TOWN OF OAKVILLE, REGION OF HALTON



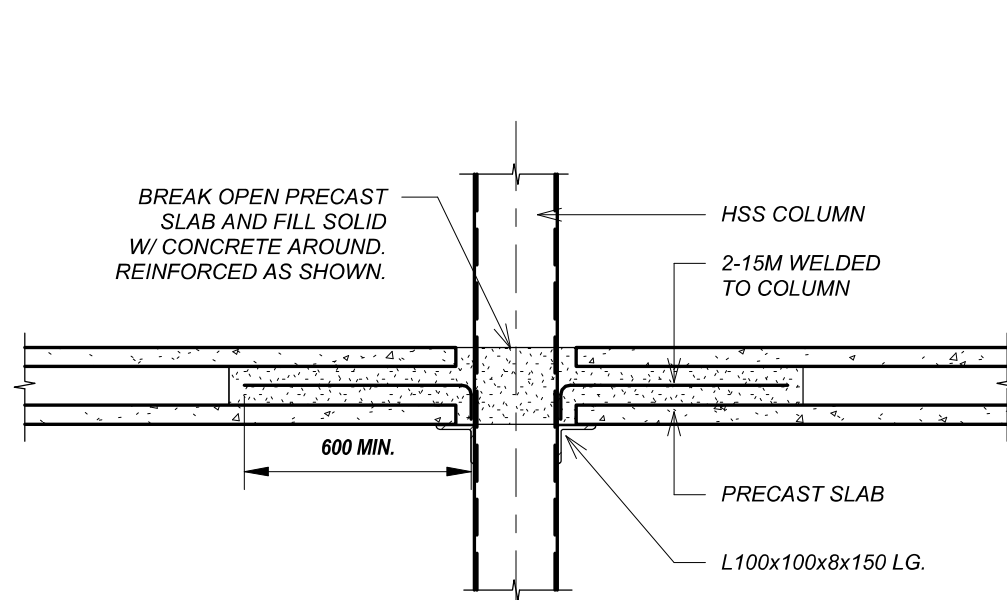
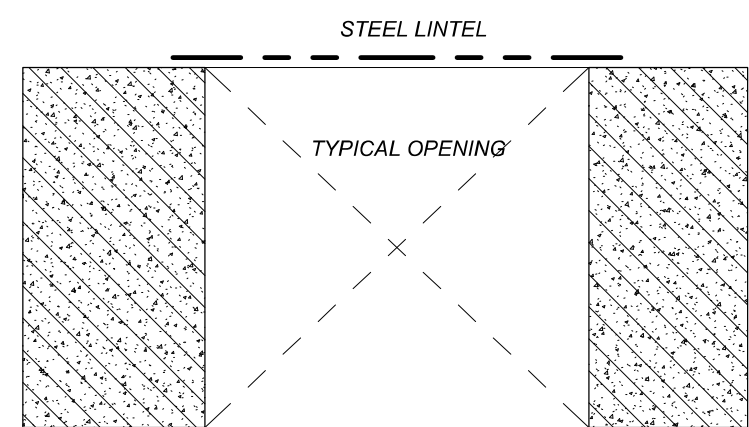
HALTON DISTRICT SCHOOL BOARD  
LAW/ENGINEERING EDUCATION CENTRE  
1050 QUEENLINE  
BURLINGTON, ON. L7R 5C7  
TEL: (905) 335-3603  
FAX: (905) 335-3602

**ROOF FRAMING PLAN**

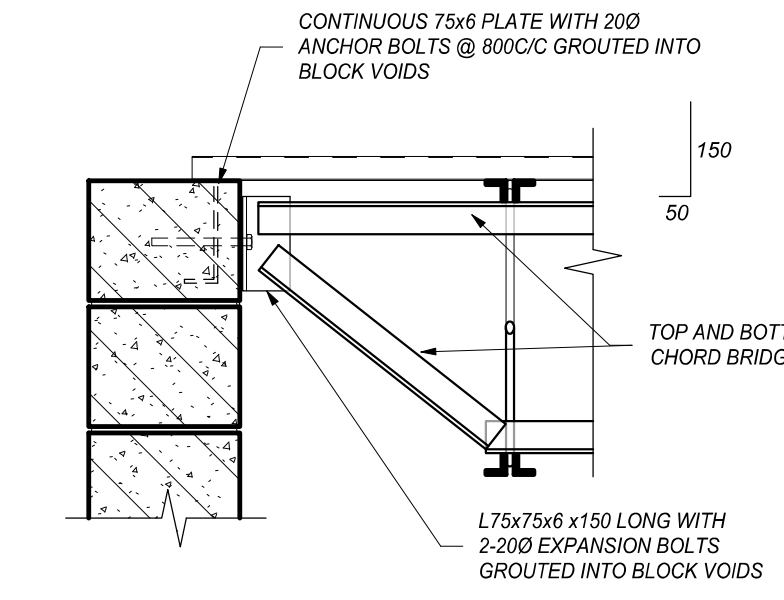


SCALE	As indicated	PROJECT	22104
DATE	AUGUST, 2022	DRAWING	S3.2
DRAWN	SHUVE	CHECKED	GF
PRINT DATE	11/28/2022 11:25:45 AM	REVIT FILE	T:\20151515\2022\Rev\MBL_TON1010.rvt

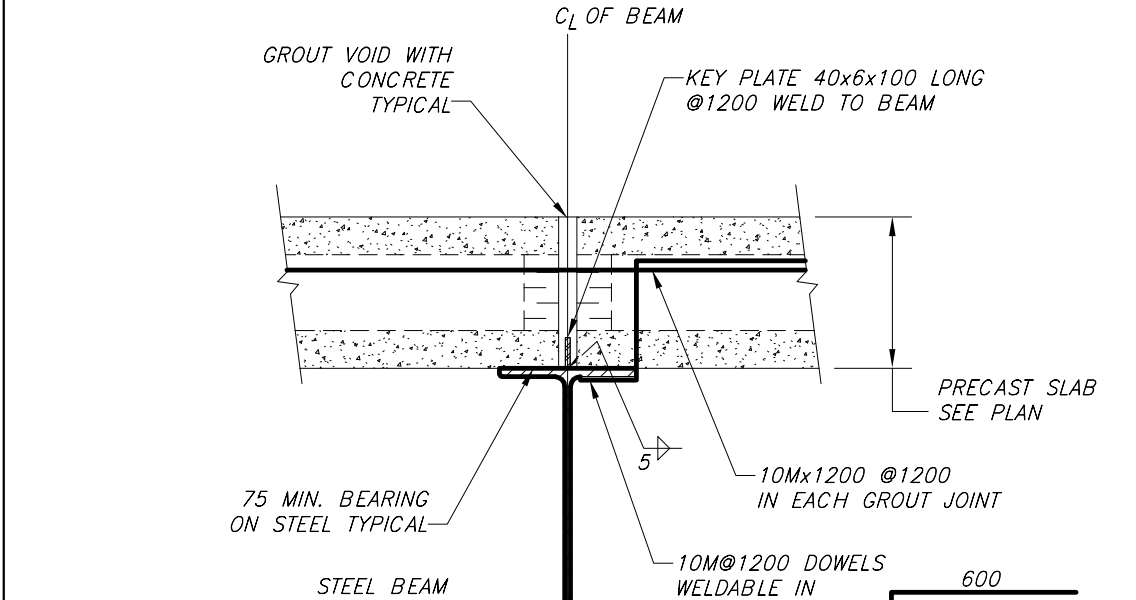




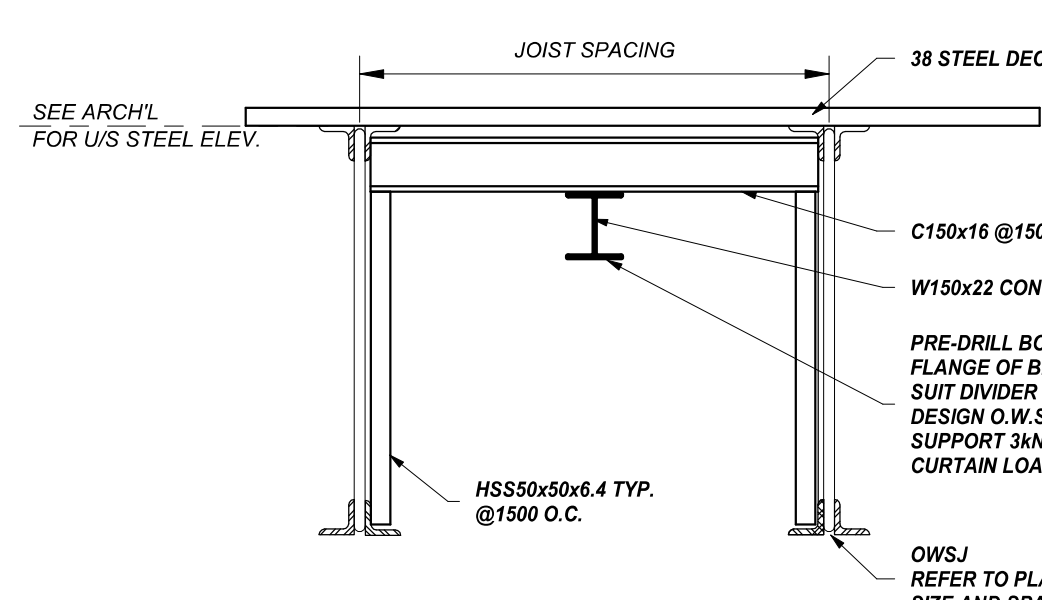
TYPICAL PRECAST DETAIL AT COLUMN



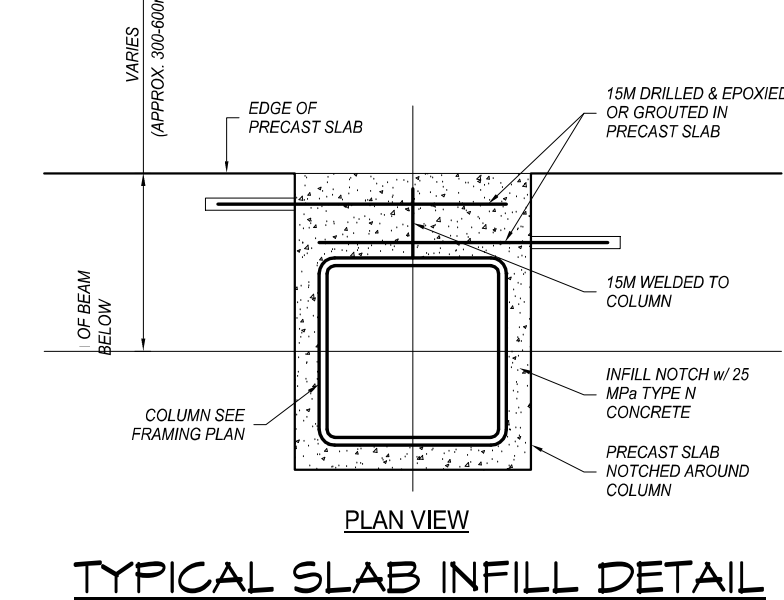
JOIST AND DECK AT TOP OF MASONRY WALL (TYPICAL)



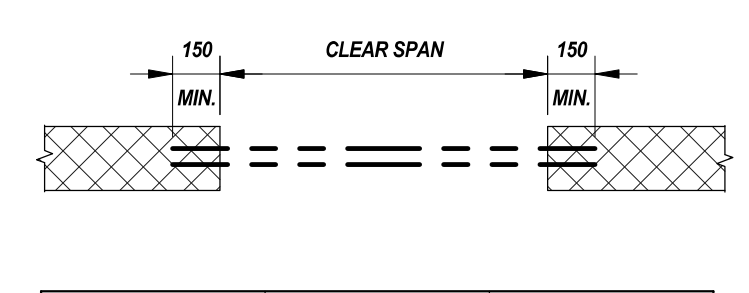
TYPICAL DETAIL OF PARALLEL PRECAST SLAB TOP FLANGE BEARING



TYPICAL DIVIDER CURTAIN SUPPORT DETAIL



TYPICAL SLAB INFILL DETAIL

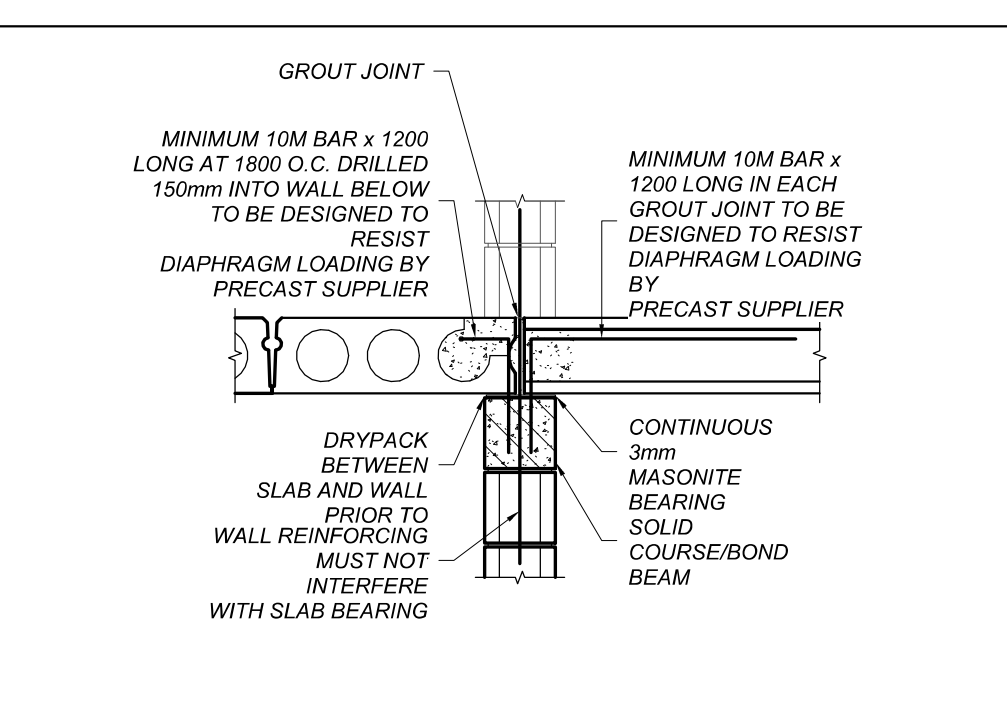


CLEAR SPAN	140 WALL	190 WALL
UP TO 1200	2LA 75#x54#8	2LA 90#x90#8
1200 TO 1800	2LA 90#x54#8	2LA 125#x90#8
1800 TO 2100	2LA 90#x54#10	2LA 150#x90#8

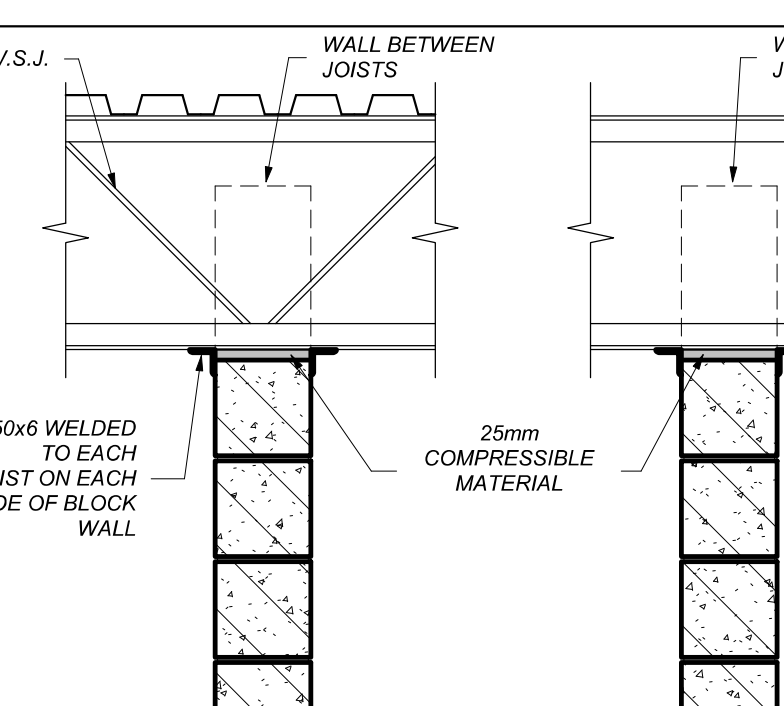
  

CLEAR SPAN	240 WALL	290 WALL
UP TO 1200	2LA 100#x100#8	2LA 90#x90#8
1200 TO 1800	2LA 150#x100#8	2LA 125#x90#8
1800 TO 2100	2LA 150#x100#10	2LA 150#x90#8

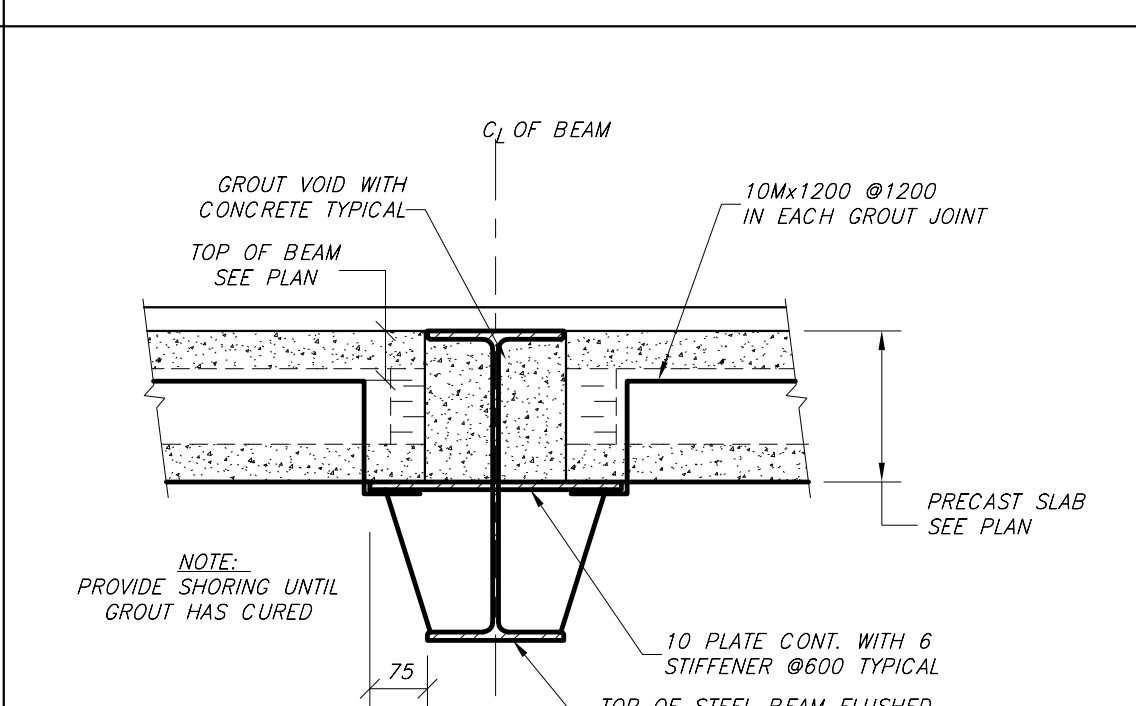
FOR LINTELS IN 90 VENEER, USE 1 ANGLE OF THAT NOTED FOR 190 WALL OR SIMILAR SPAN.  
DOUBLE ANGLES TO BE STITCH WELDED BACK TO BACK LINTELS TO HAVE A BOLTED CONNECTION TO COLUMNS. LINTELS LARGER THAN 2100 TO HAVE BEARING PLATE TYPE A TERMINATE LINTEL PLATES 10mm SHY OF OPENING.



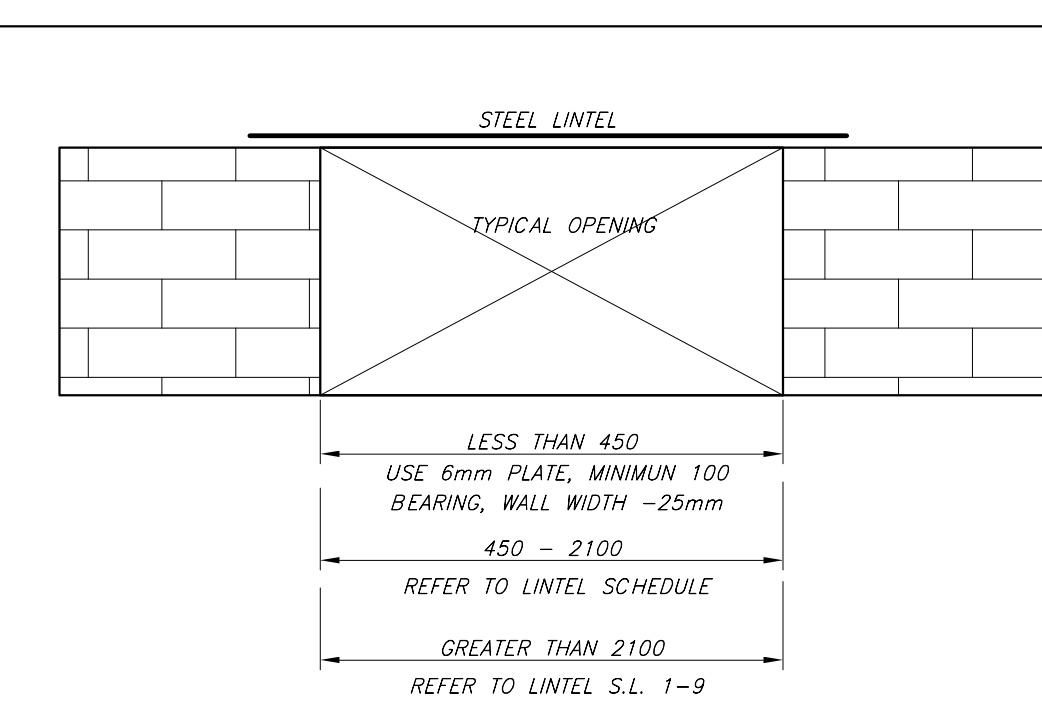
PRECAST SLAB - PERPENDICULAR BEARING/TIE DOWN



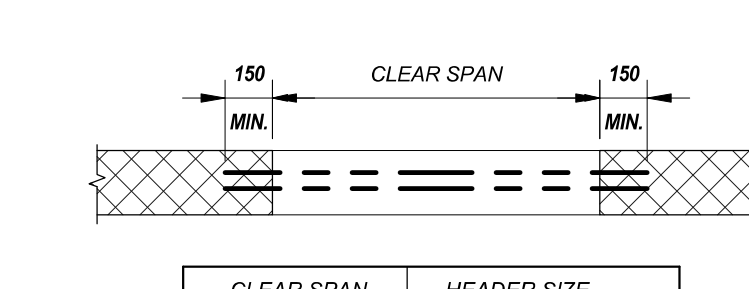
BRACING OF PARTITION WALLS AT UNDERSIDE OF STEEL JOIST



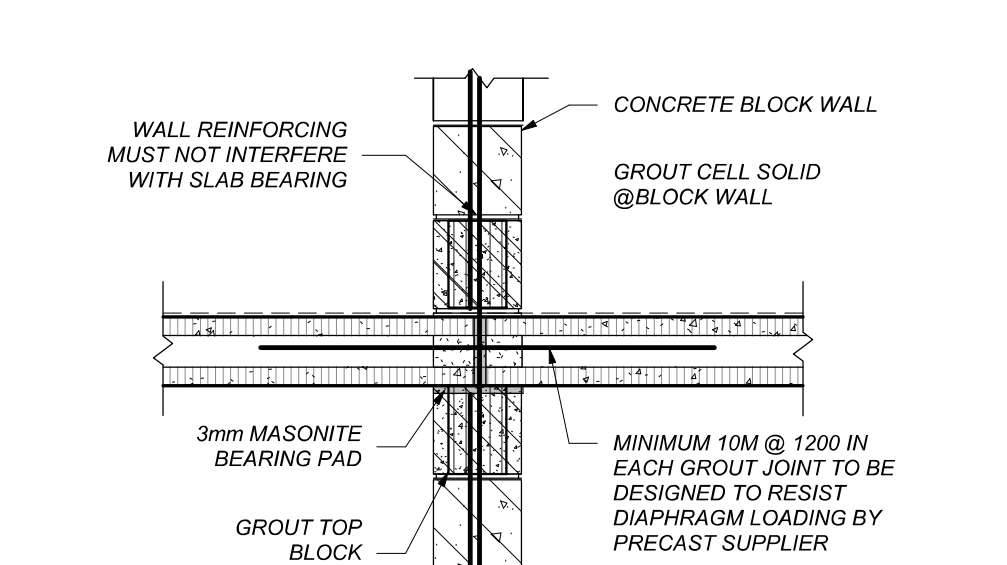
TYPICAL FLUSH BEAM DETAIL OF DOUBLE BEARING PRECAST SLAB



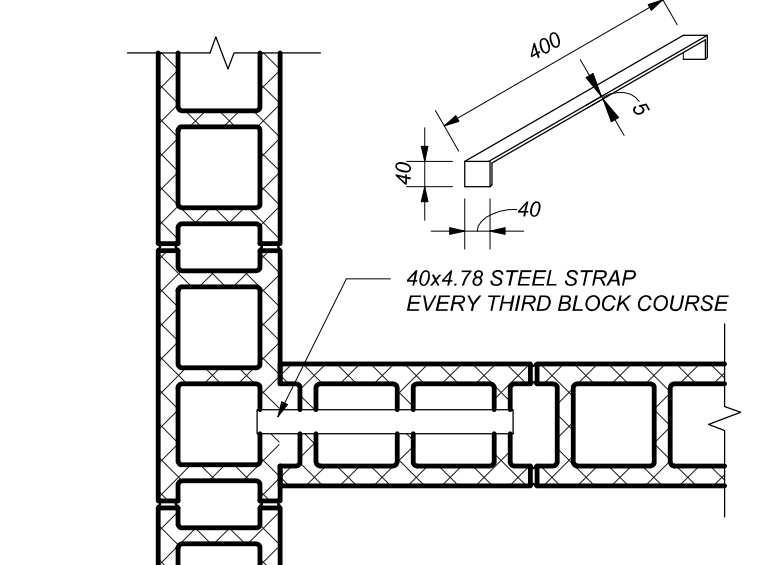
TYPICAL STEEL LINTEL DETAIL



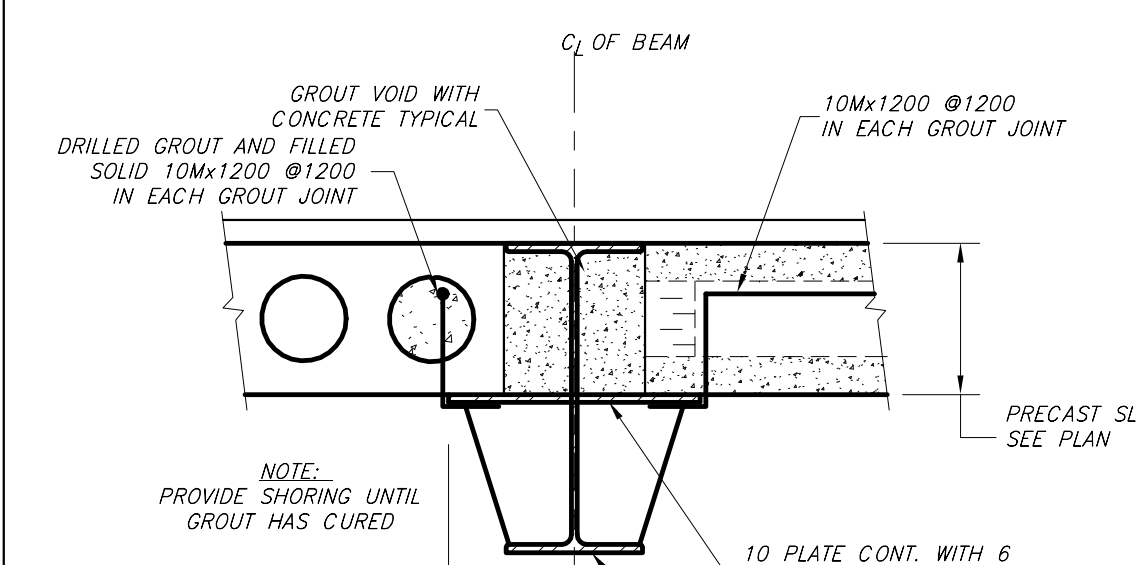
CLEAR SPAN	HEADER SIZE
UP TO 1200	2 - 90 x 16 Gs. (1.52mm)
1200 TO 1400	2 - 100 x 16 Gs. (1.52mm)
1400 TO 1800	2 - 150 x 16 Gs. (1.52mm)
1800 TO 2100	2 - 200 x 14 Gs. (1.59mm)



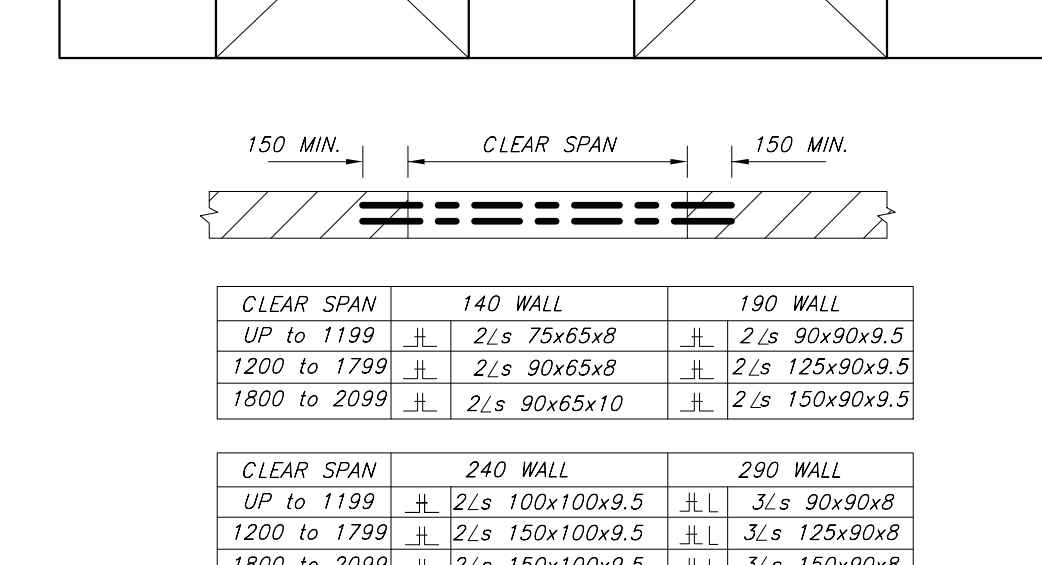
BRACING OF PARTITION WALLS AT UNDERSIDE OF PRECAST SLAB



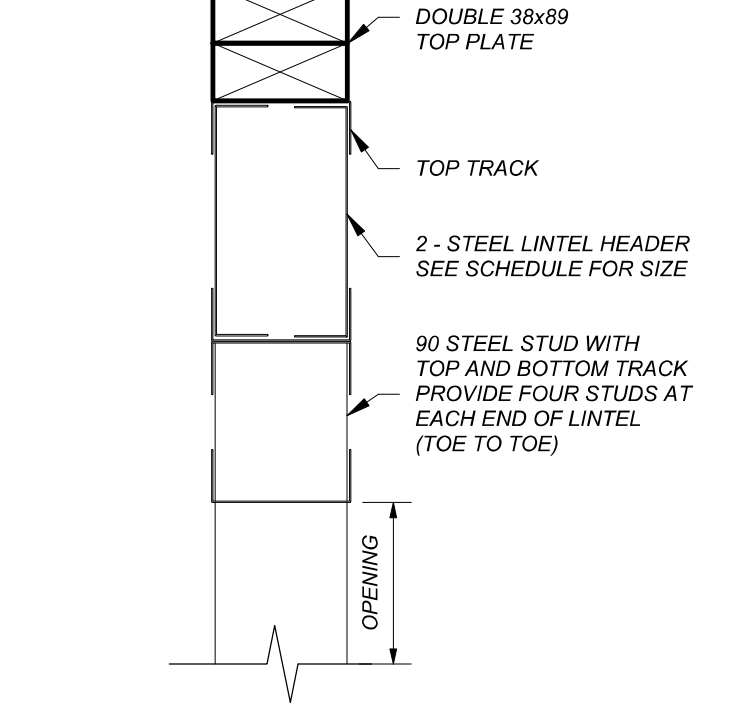
TYPICAL INTERSECTION OF CONCRETE BLOCK WALLS



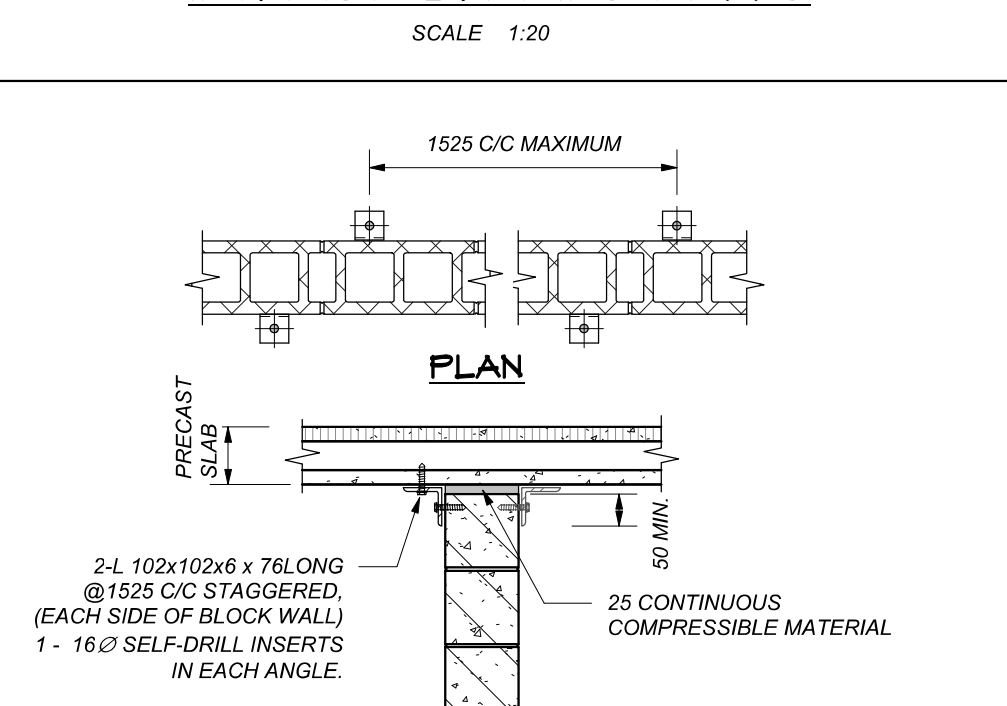
TYPICAL FLUSH BEAM DETAIL OF SINGLE BEARING PRECAST SLAB



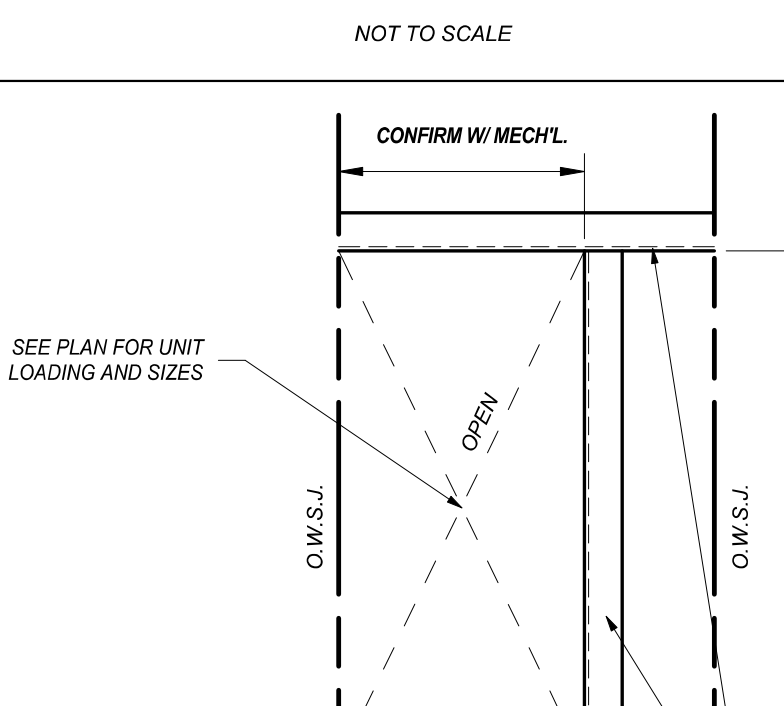
TYPICAL WINDOW SHADES DETAIL



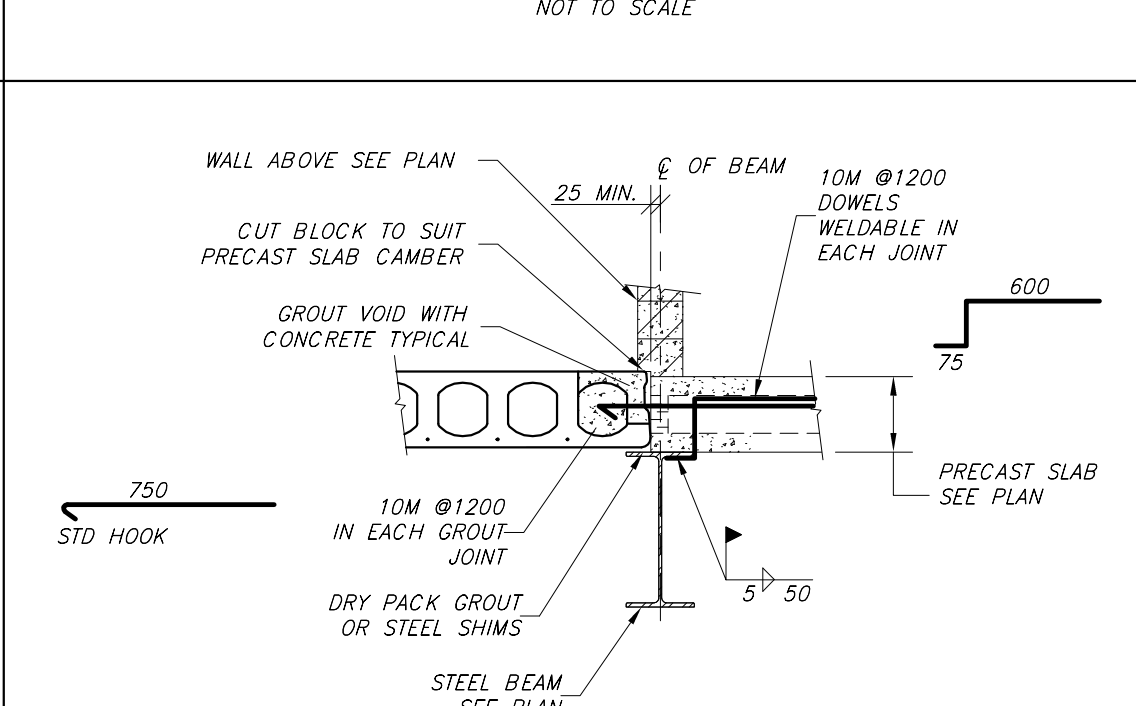
ANCHORAGE DETAIL OF STEEL BEAM TO MASONRY WALL



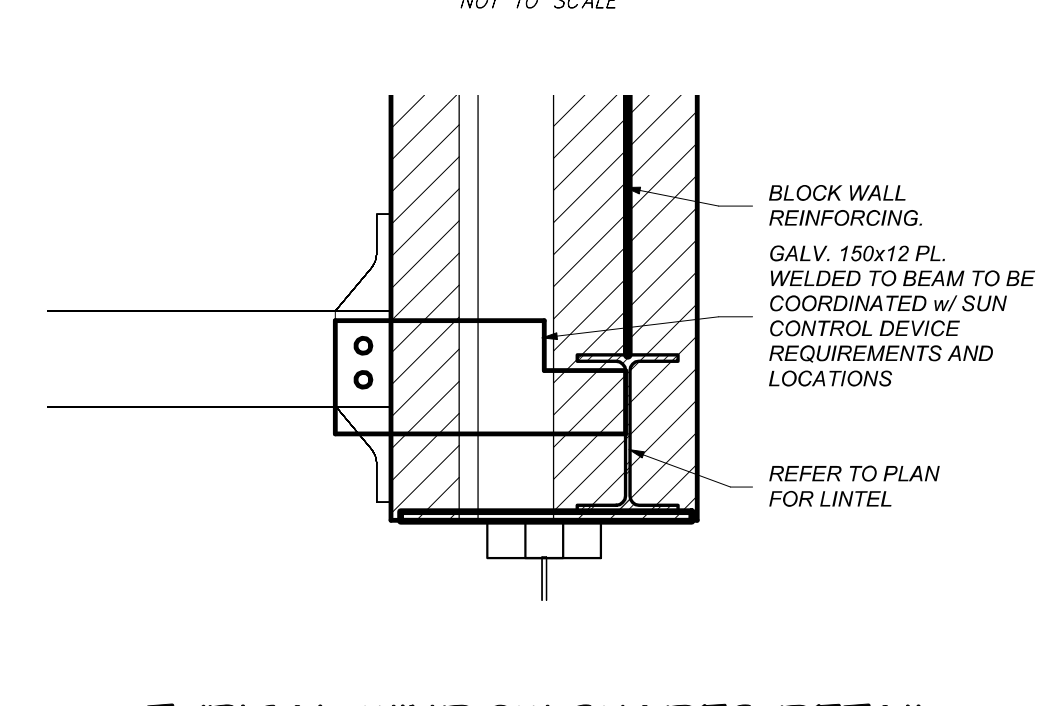
BRACING OF PARTITION WALLS AT UNDERSIDE OF PRECAST SLAB



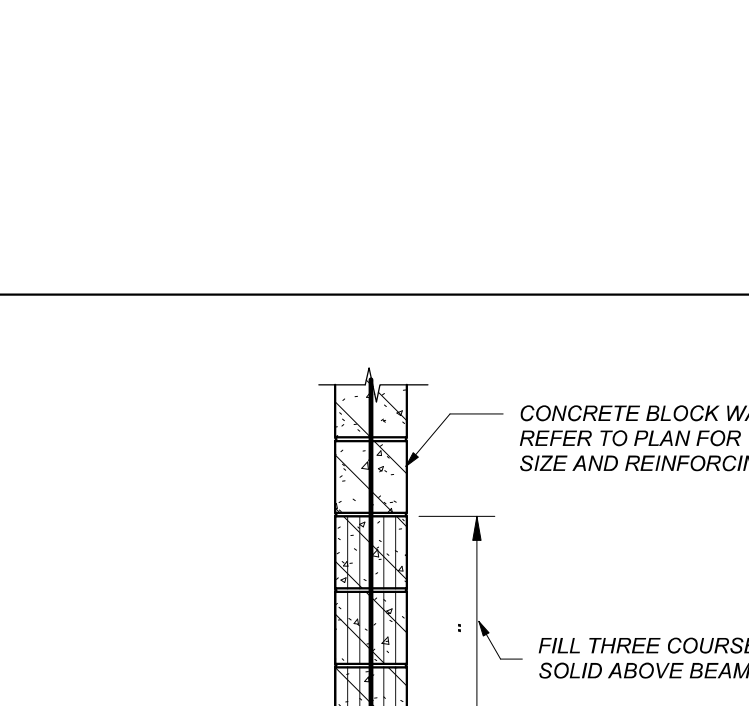
TYPICAL ROOF TOP HVAC UNIT FRAMING



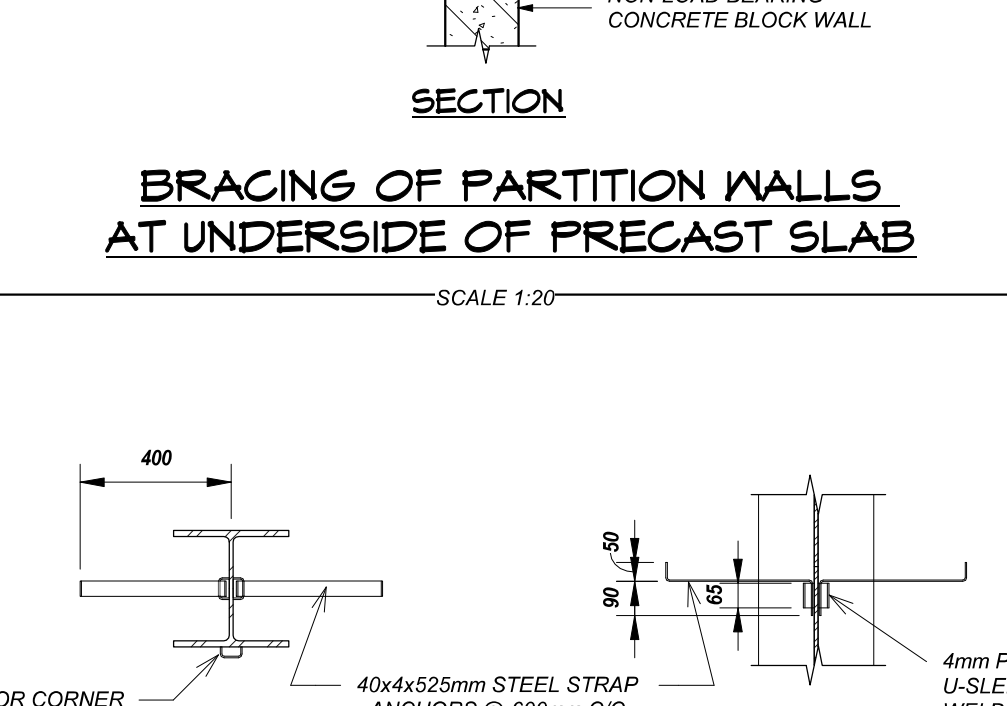
TYPICAL DETAIL OF PERPENDICULAR PRECAST SLABS TOP FLANGE BEARING



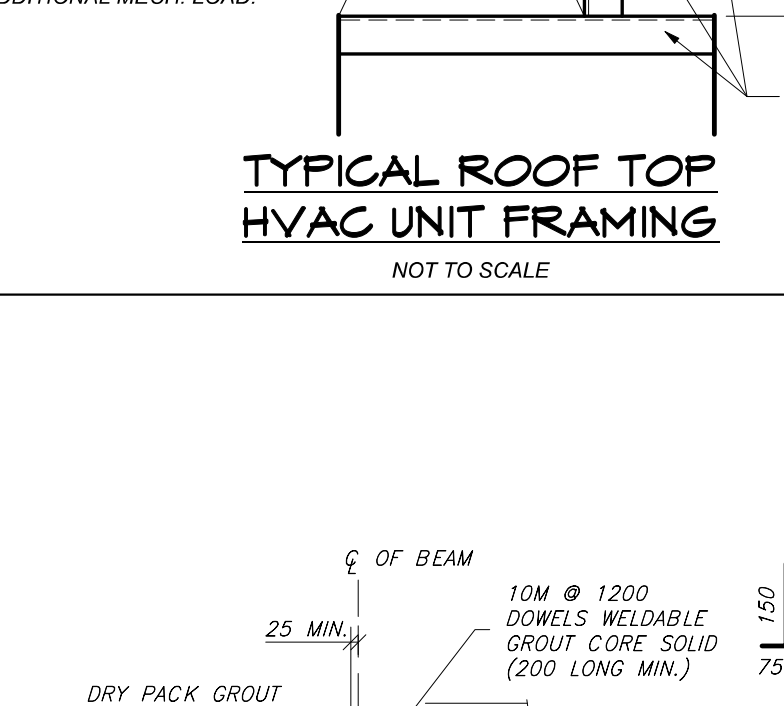
TYPICAL WINDOW SHADES DETAIL



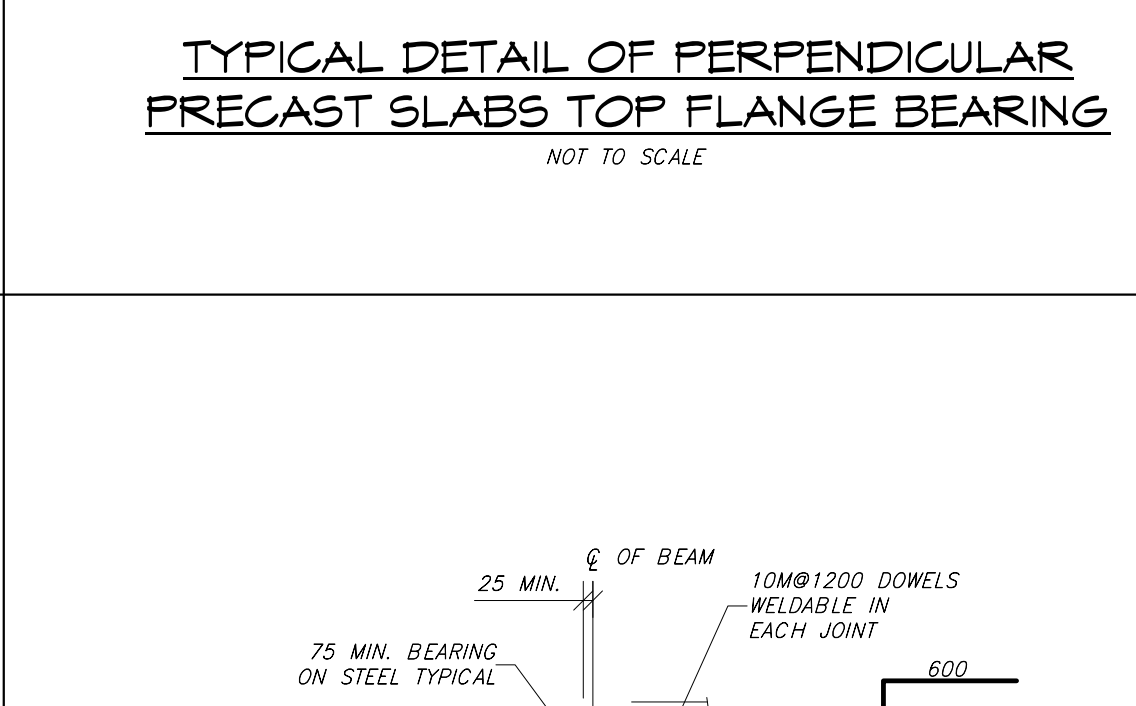
ANCHORAGE DETAIL OF STEEL BEAM TO MASONRY WALL



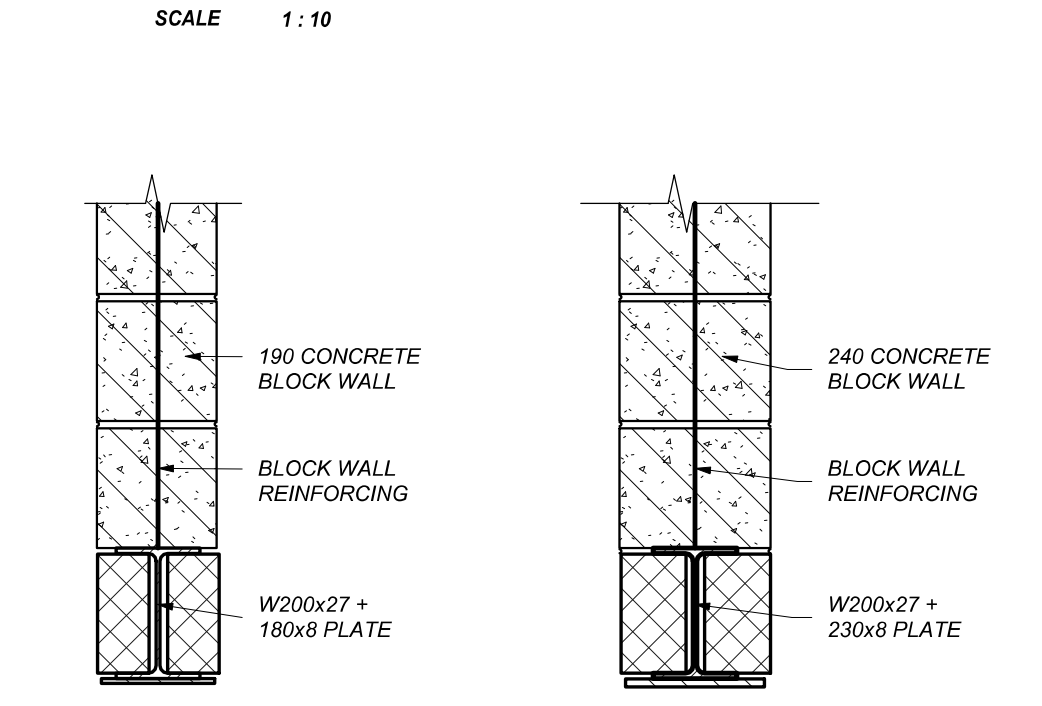
DETAIL OF ANCHORAGE OF STEEL COLUMN TO MASONRY WALL



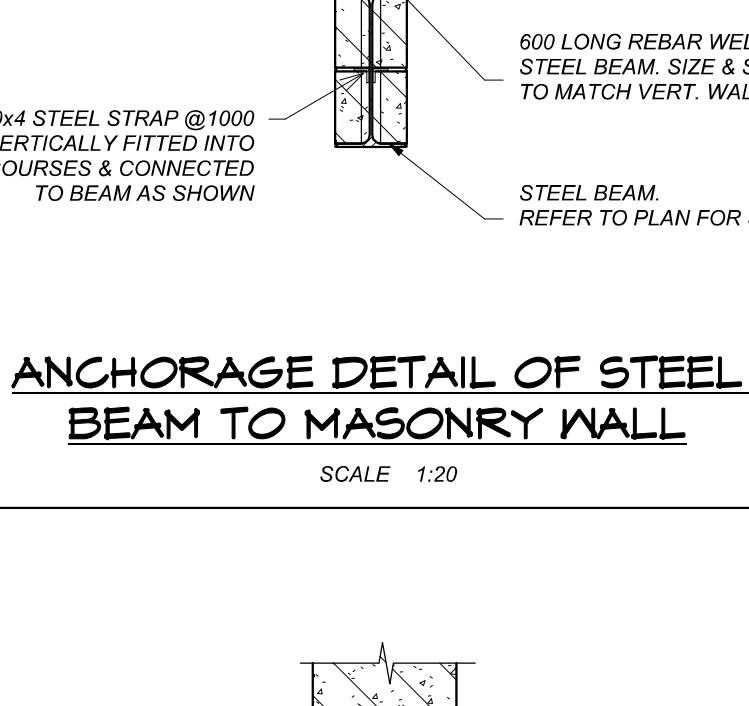
TYPICAL PRECAST SLAB BEARING DETAIL PARALLEL TO STEEL BEAM



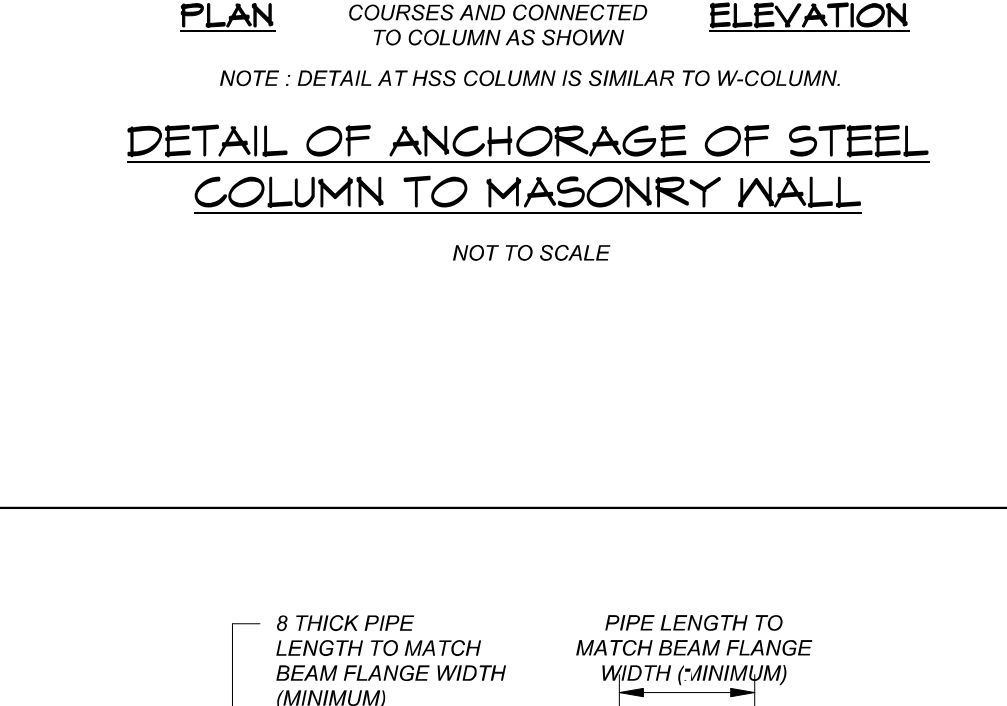
TYPICAL PRECAST SLAB BEARING DETAIL PERPENDICULAR TO STEEL BEAM



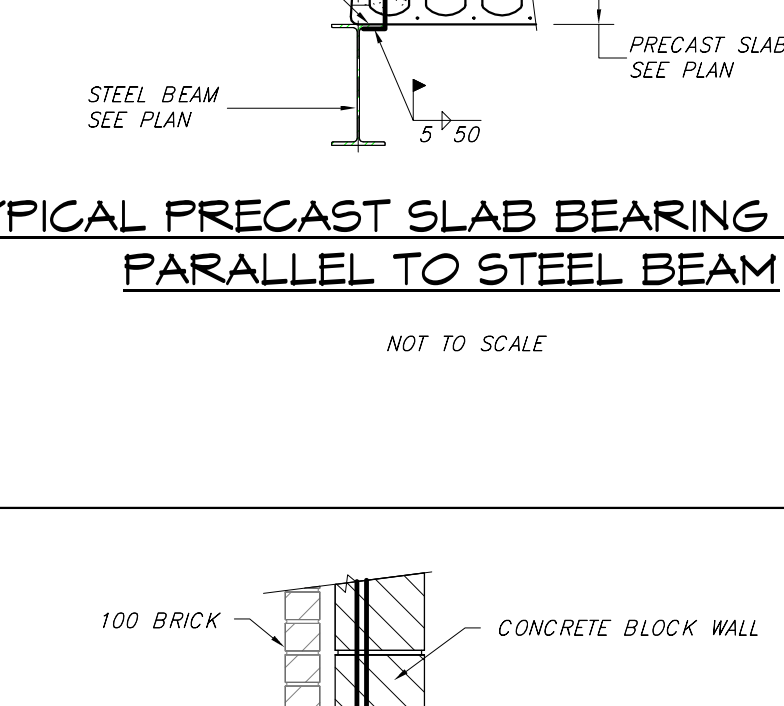
TYPICAL WINDOW SHADES DETAIL



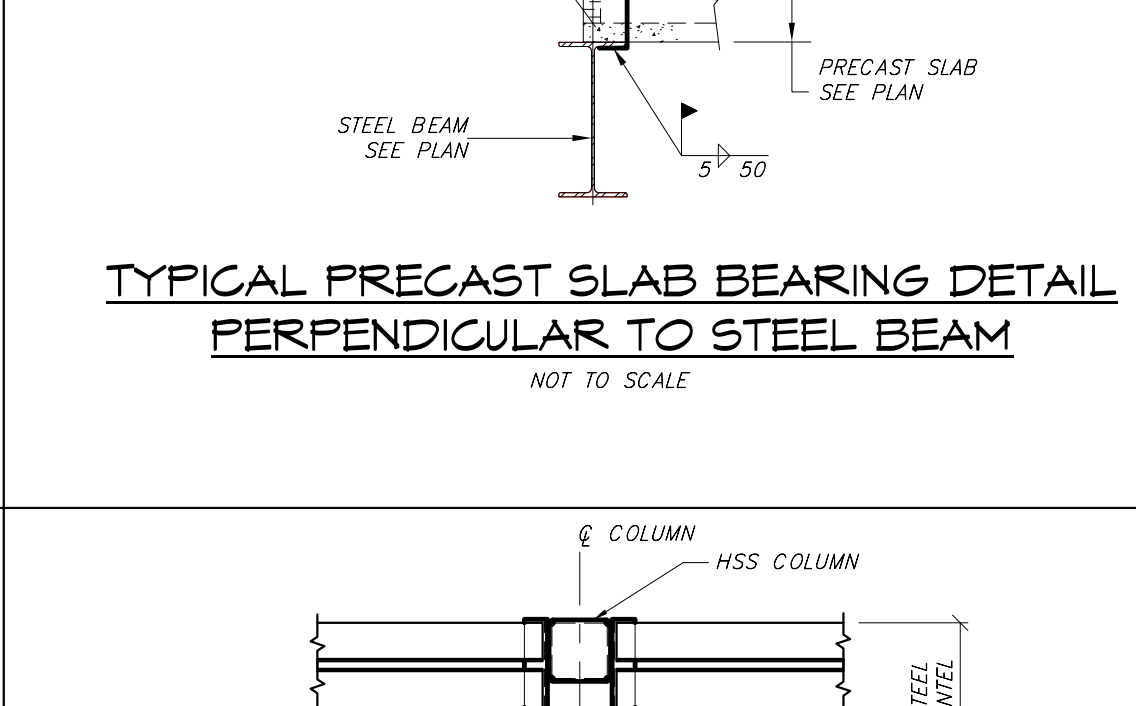
TYPICAL ELEVATOR BOND BEAM



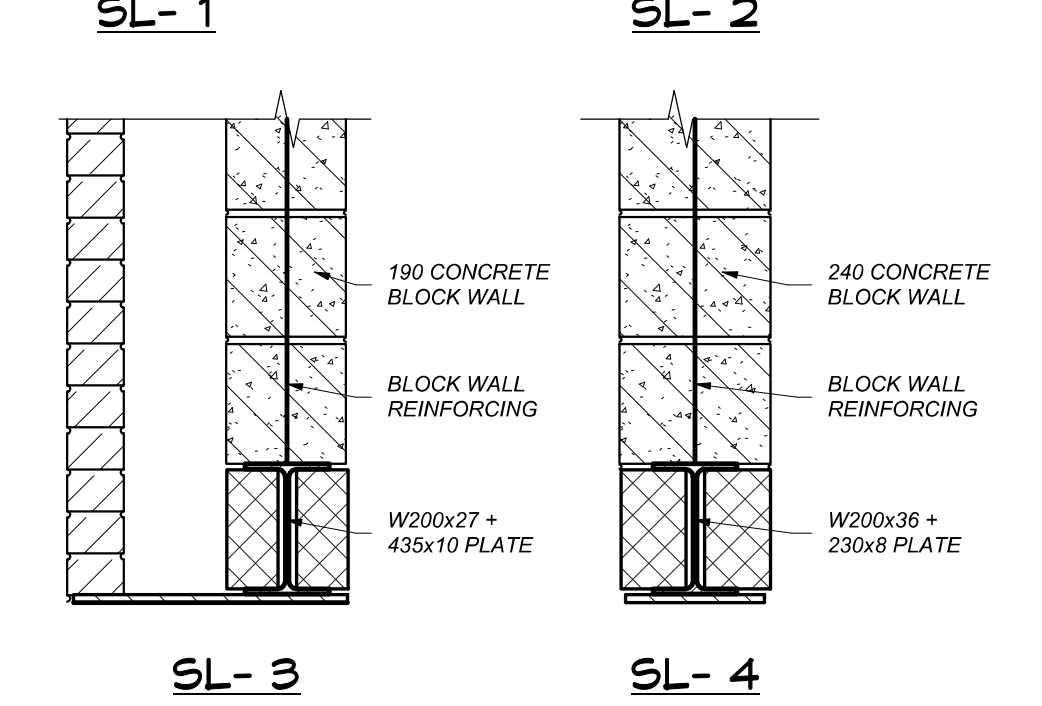
TYPICAL REINFORCING FOR OPENING IN STEEL BEAM



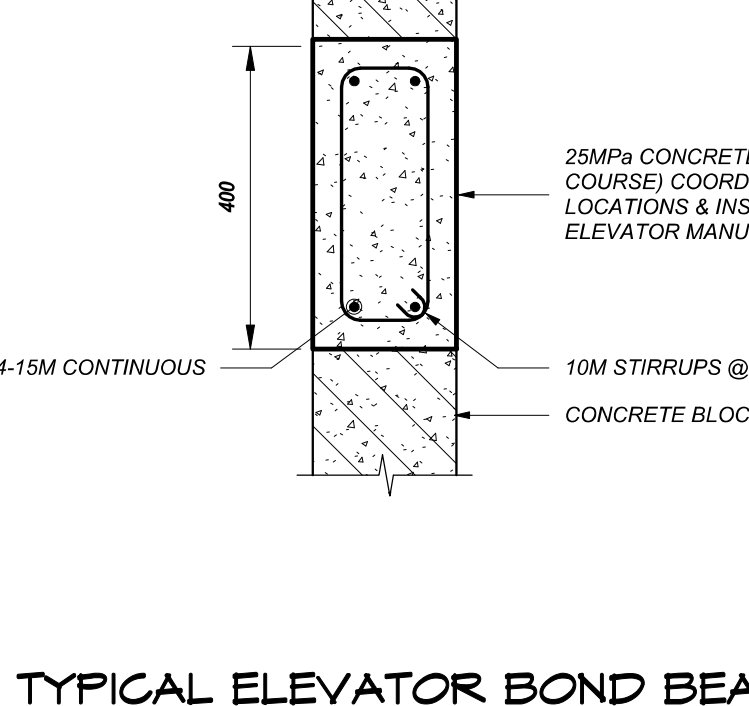
TYPICAL PRECAST DETAIL AT EXTERIOR WALL (PARALLEL TO PRECAST SLABS)



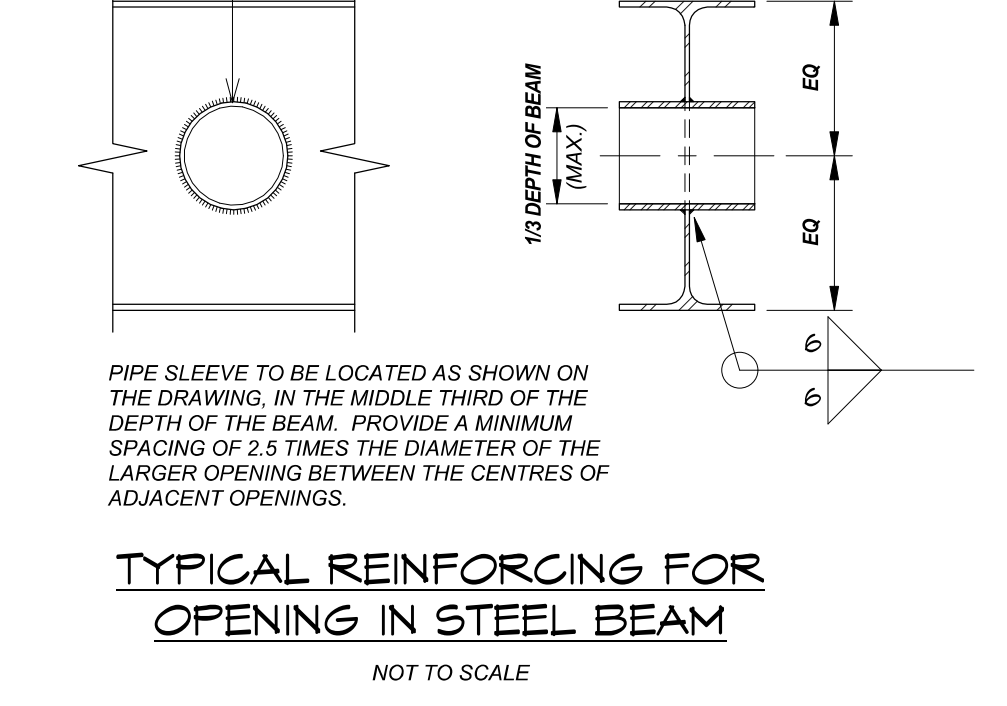
TYPICAL LINTEL BEARING DETAIL AT COLUMN



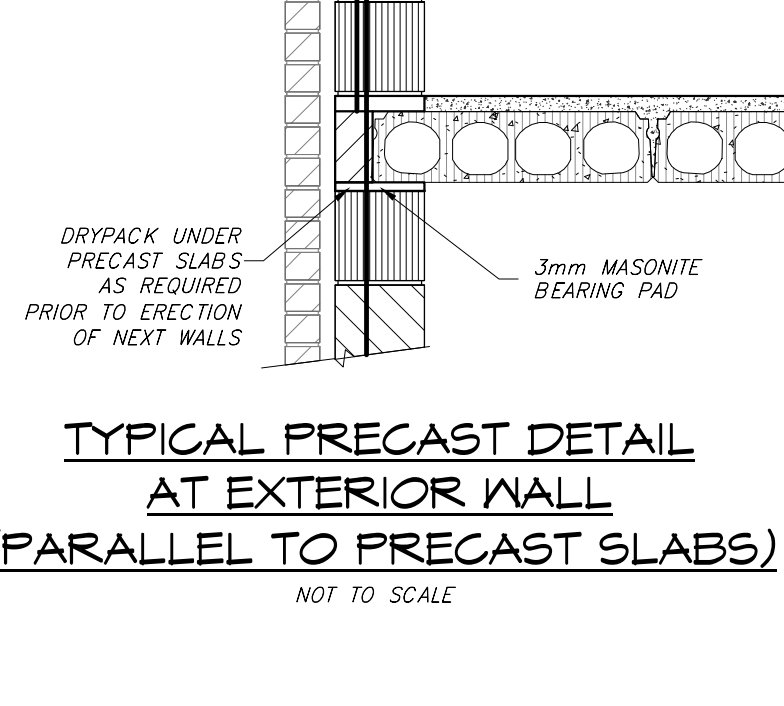
TYPICAL WINDOW SHADES DETAIL



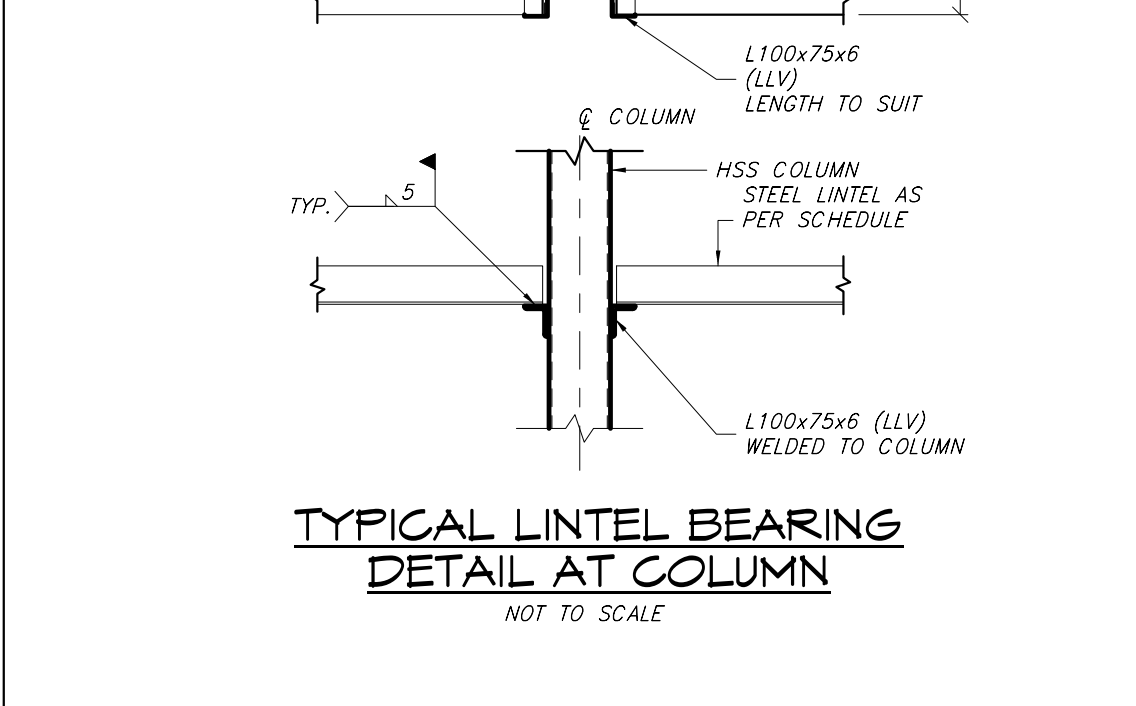
TYPICAL SLAB TO SLAB HANGER DETAIL



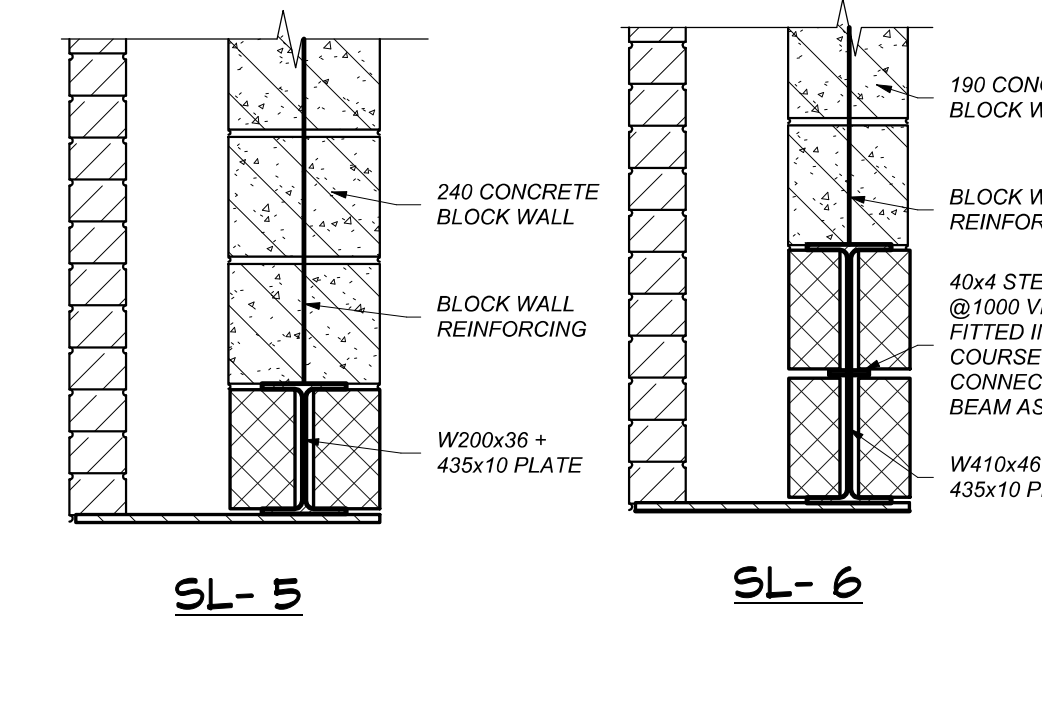
STEEL JOIST BEARING ON MASONRY (TYPICAL)



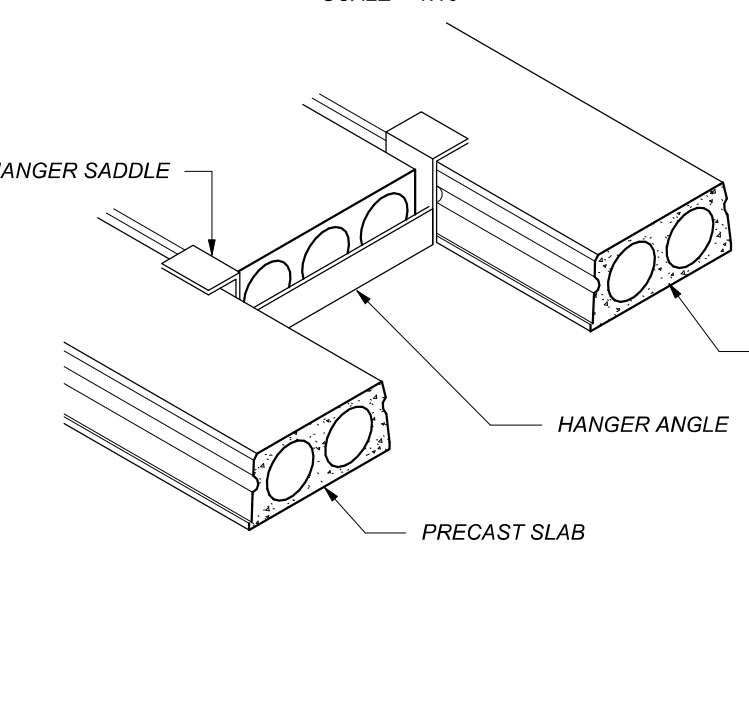
TYPICAL PRECAST DETAIL AT EXTERIOR WALL (PERPENDICULAR TO PRECAST SLABS)



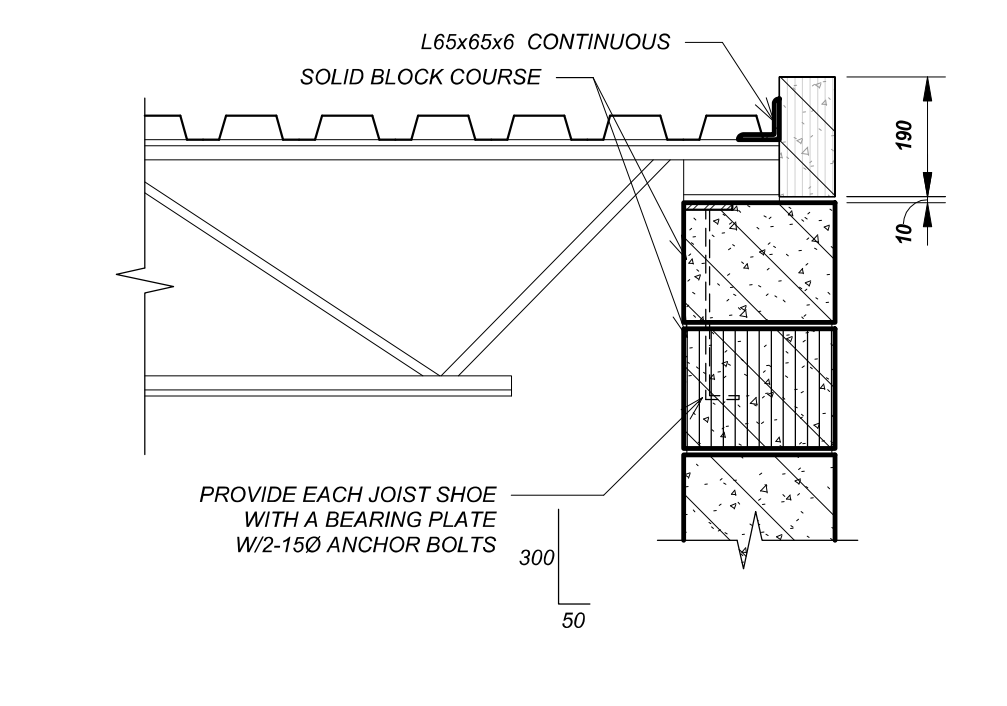
TYPICAL PARTITION WALL SUPPORT DETAIL



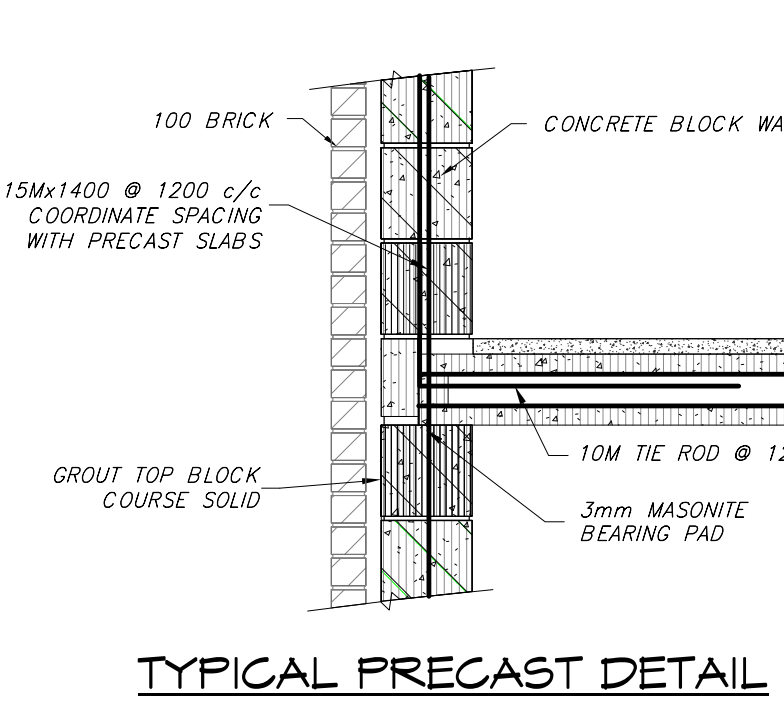
TYPICAL WINDOW SHADES DETAIL



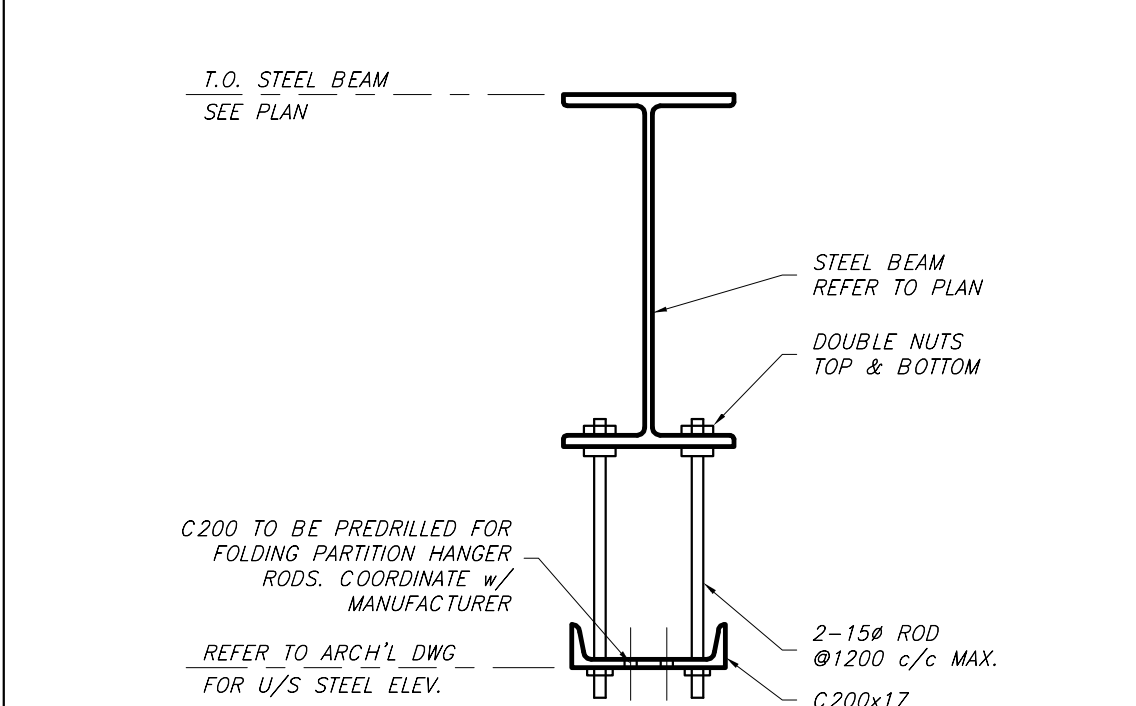
TYPICAL SLAB TO SLAB HANGER DETAIL



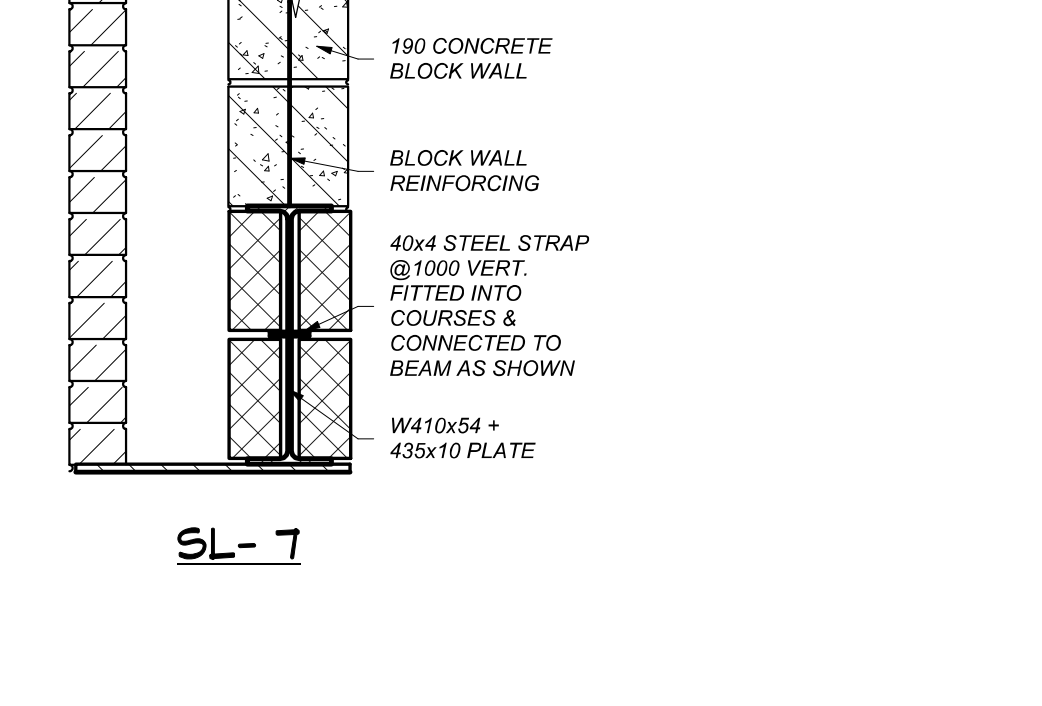
STEEL JOIST BEARING ON MASONRY (TYPICAL)



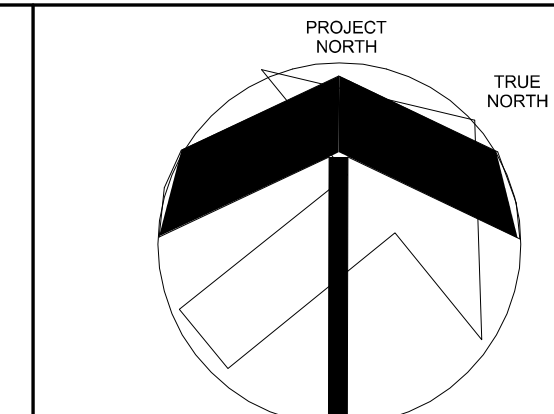
TYPICAL PRECAST DETAIL AT EXTERIOR WALL (PERPENDICULAR TO PRECAST SLABS)



TYPICAL PARTITION WALL SUPPORT DETAIL



TYPICAL WINDOW SHADES DETAIL



PROJECT NORTH  
TRUE NORTH



NO.	REVISIONS	DATE
1	ISSUED FOR PERMIT	22-04-26
2	ISSUED FOR TENDER	23-01-04

NO. ISSUED DATE  
DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT. (AND HAS TO REPORT ANY DISCREPANCIES TO THE CONSULTANT AS SOON AS POSSIBLE WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORWARDED WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

CERTIFICATE OF PRACTICE #4292  
OAKVILLE #3 PUBLIC SCHOOL

1235 #9HEAT ROOM DRIVE  
OAKVILLE, ON

LEGAL DESCRIPTION:  
BLOCKS #1, REGISTERED PLAN 20A-2047  
TOWN OF OAKVILLE, REGION OF HALTON



300 YORK BLVD. HAMILTON ONT. L8R 3K6  
PROJECT NO. 22087

HALTON DISTRICT SCHOOL BOARD  
LIVINGSTON EDUCATION CENTRE  
1050 CLOVELL AVE  
BURLINGTON, ON L7R 5C2  
TEL: (905) 335-3603  
FAX: (905) 335-3602

TYPICAL FRAMING DETAILS

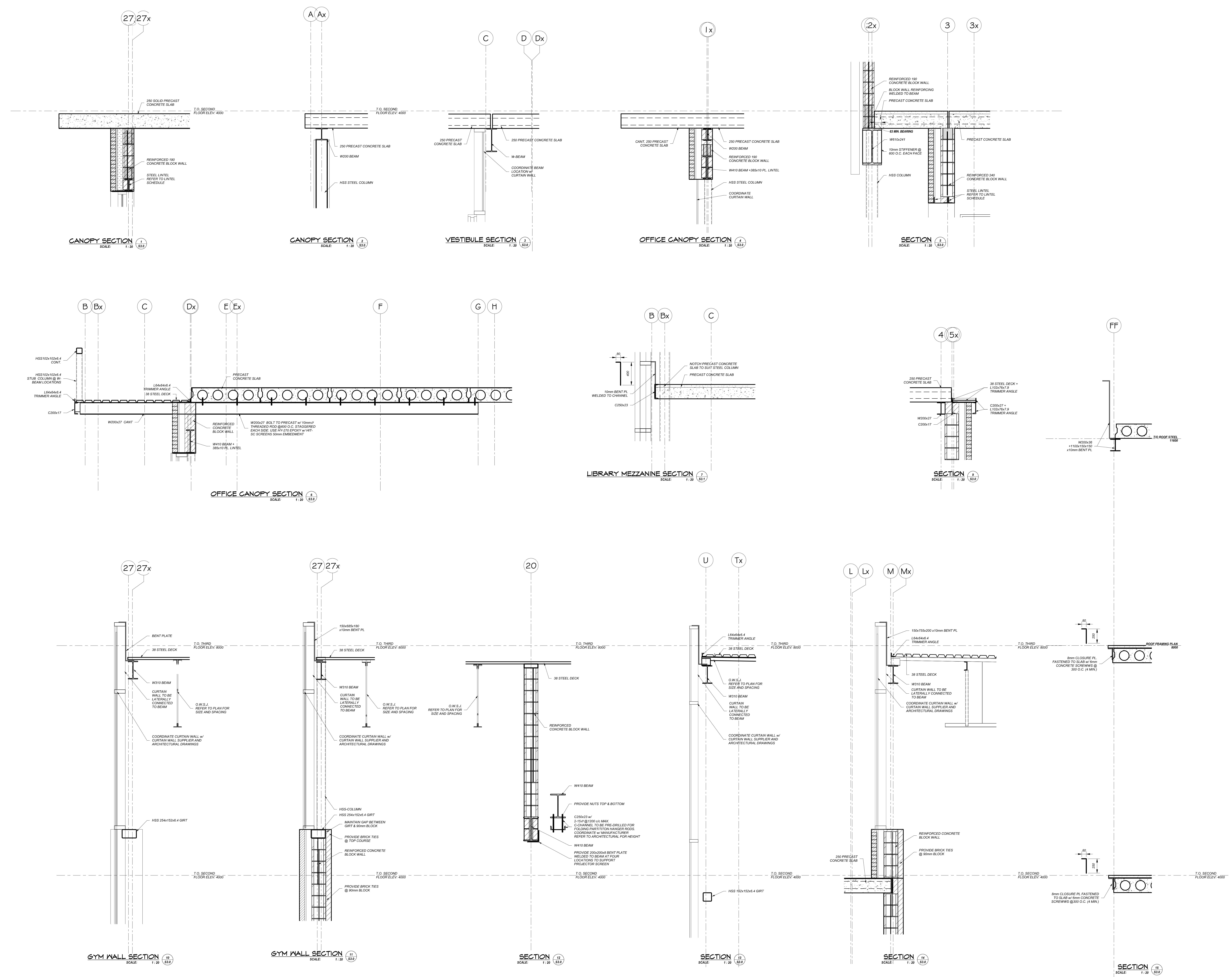
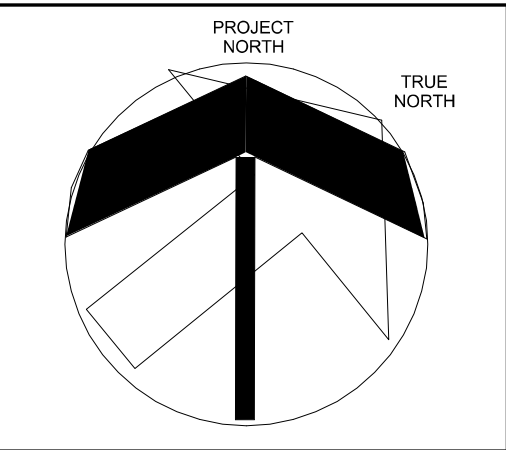
HOSSACK & ASSOCIATES ARCHITECTS

SCALE: As indicated  
PROJECT: 22104

DATE: AUGUST, 2022  
DRAWN: SHUVE  
CHECKED: GF  
DRAWING: S4.0

PRINT DATE: 11/28/2022 11:25:59 AM  
REVIT FILE: T:\2015115109102\Rev\H\TOM1010.rvt



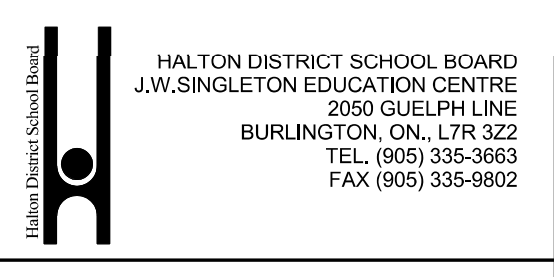


NO.	REVISIONS	DATE
1.	ISSUED FOR PERMIT	22-04-20
2.	ISSUED FOR TENDER	23-01-04

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT. (AND NOT REPORT ANY DISCREPANCIES TO THE CONSULTANT) THIS IS TO BE PROCEEDED WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANTS.

CERTIFICATE OF PRACTICE #4292  
**OAKVILLE #3 PUBLIC SCHOOL**  
 1235 WHEAT BOOM DRIVE  
 OAKVILLE, ON

LEGAL DESCRIPTION:  
 BLOCKS #1, REGISTERED PLAN 2004-047  
 TOWN OF OAKVILLE, REGION OF HALTON

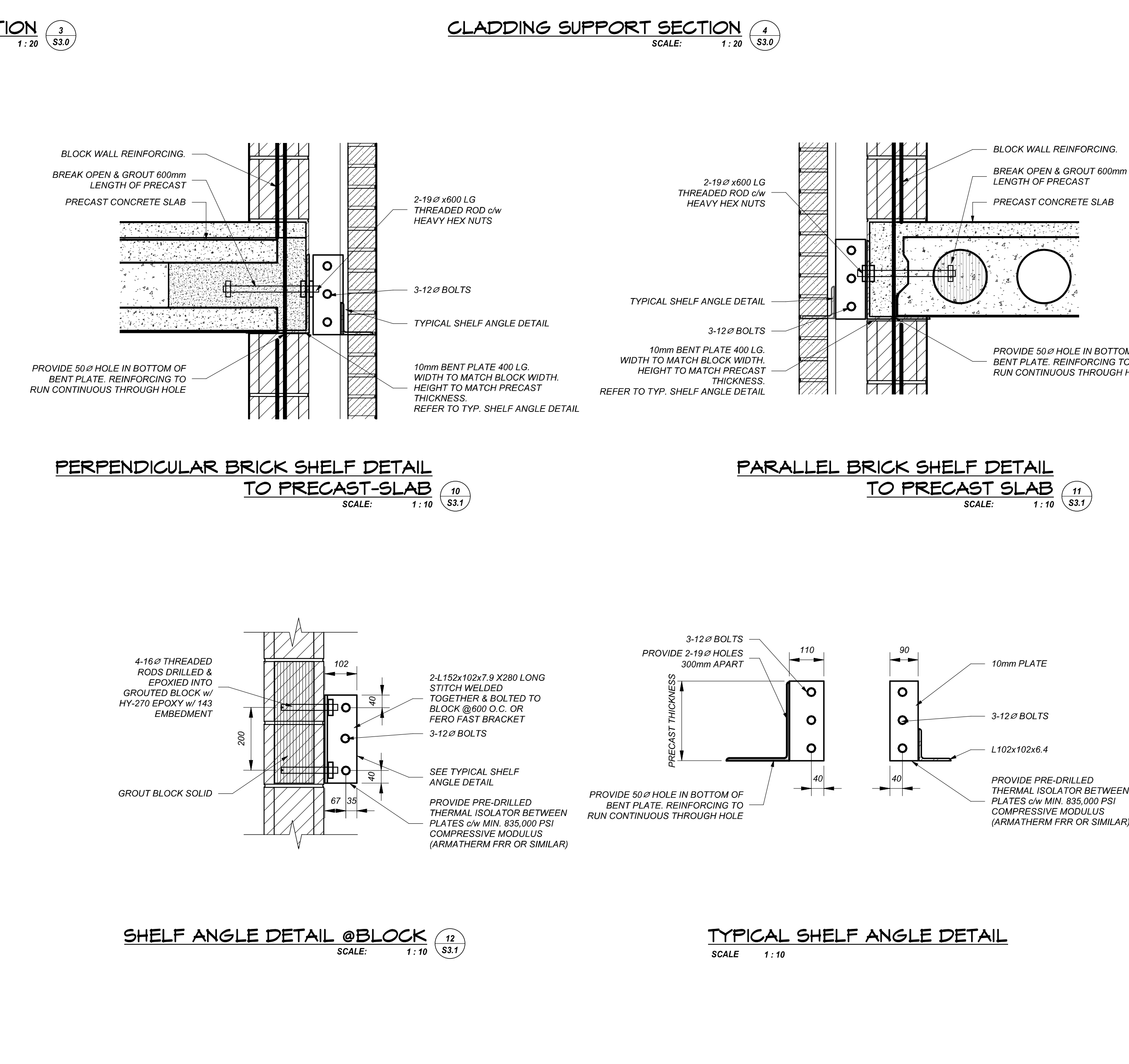
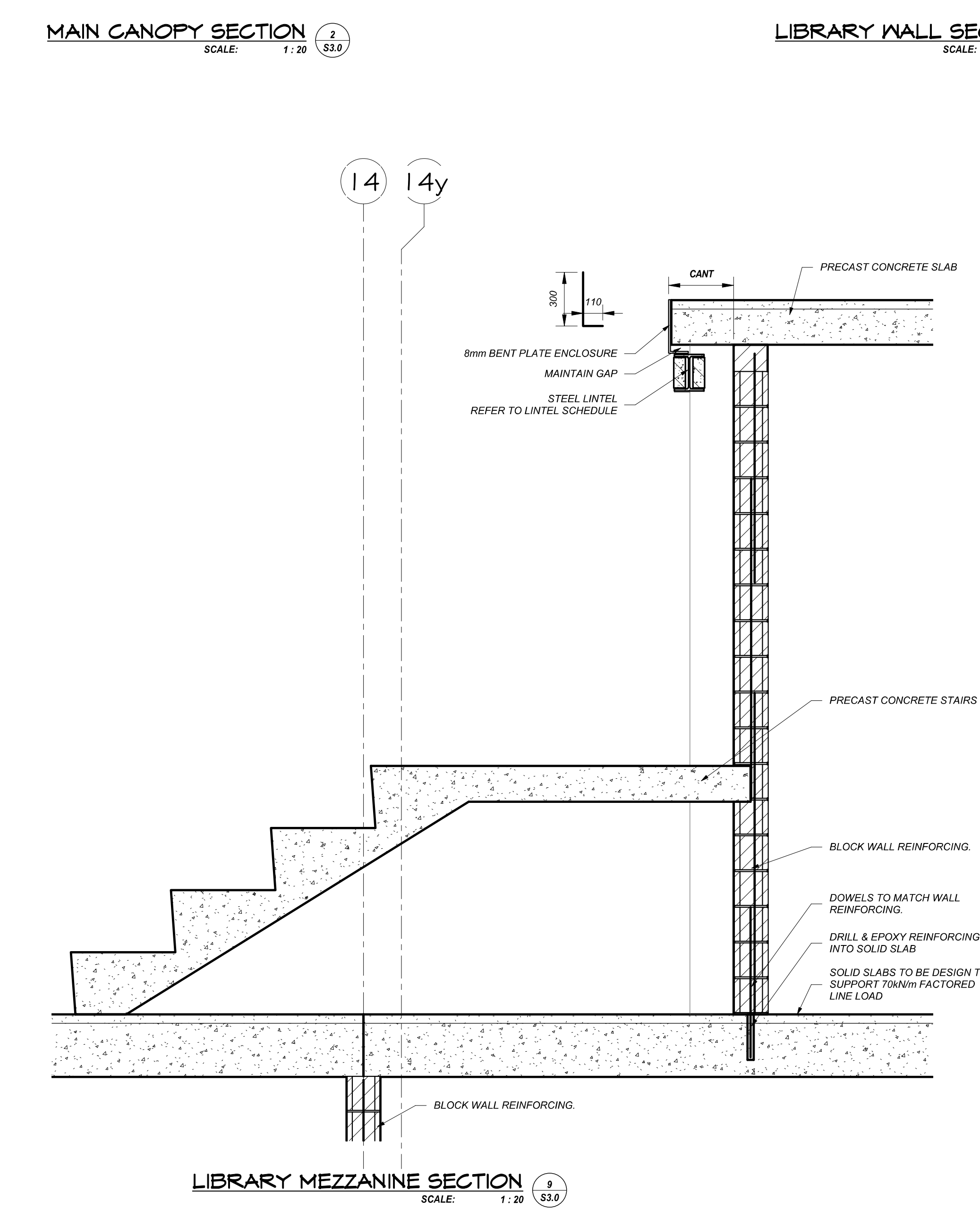
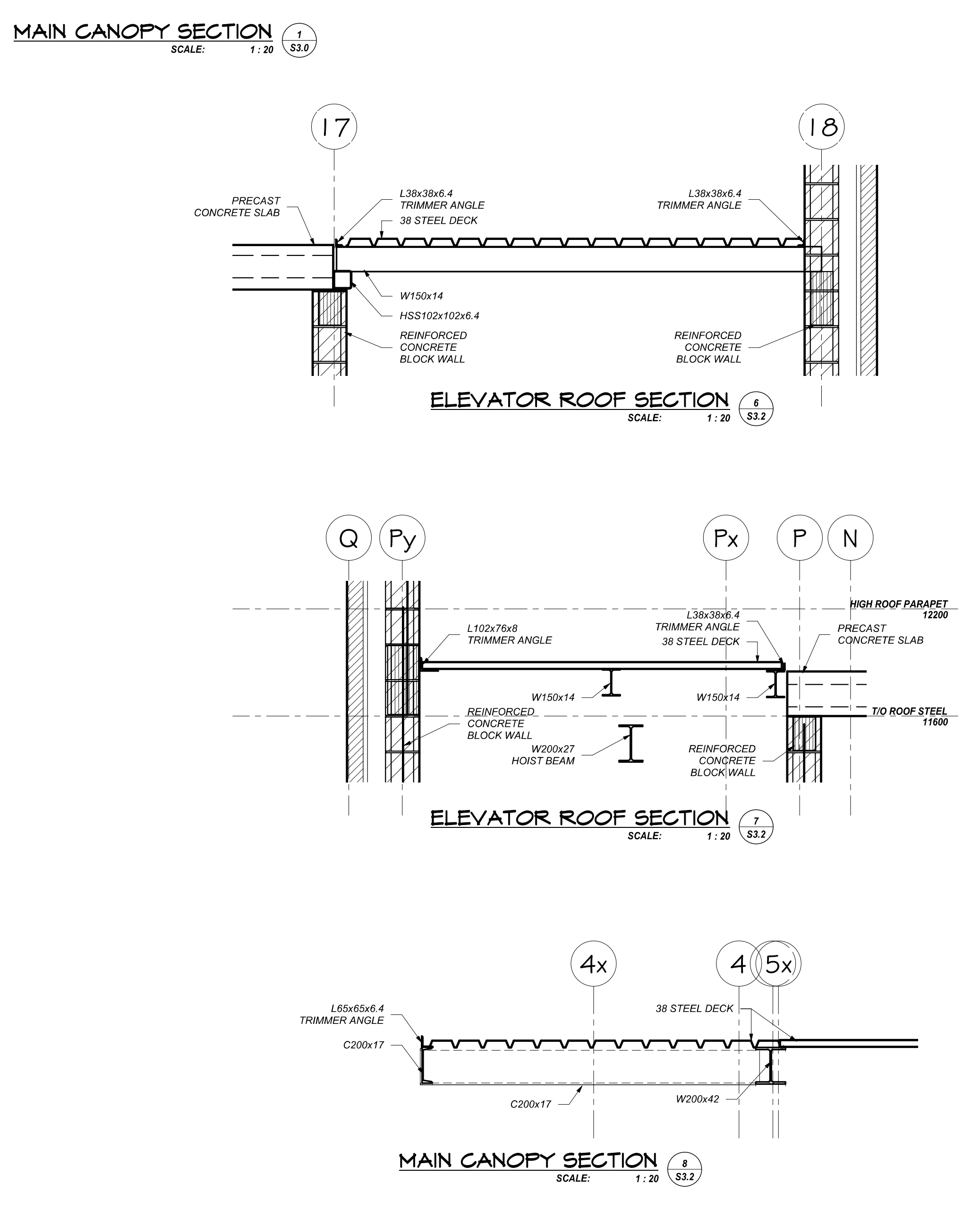
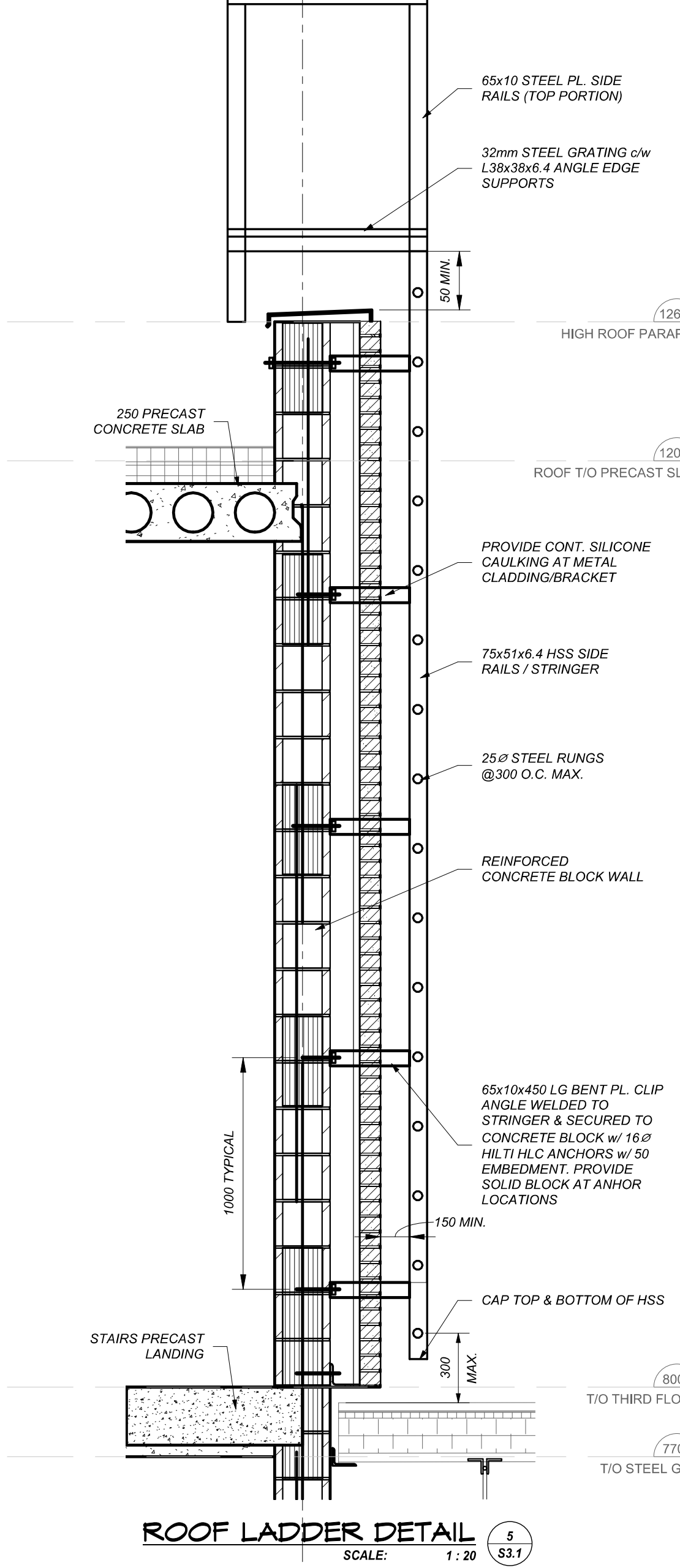
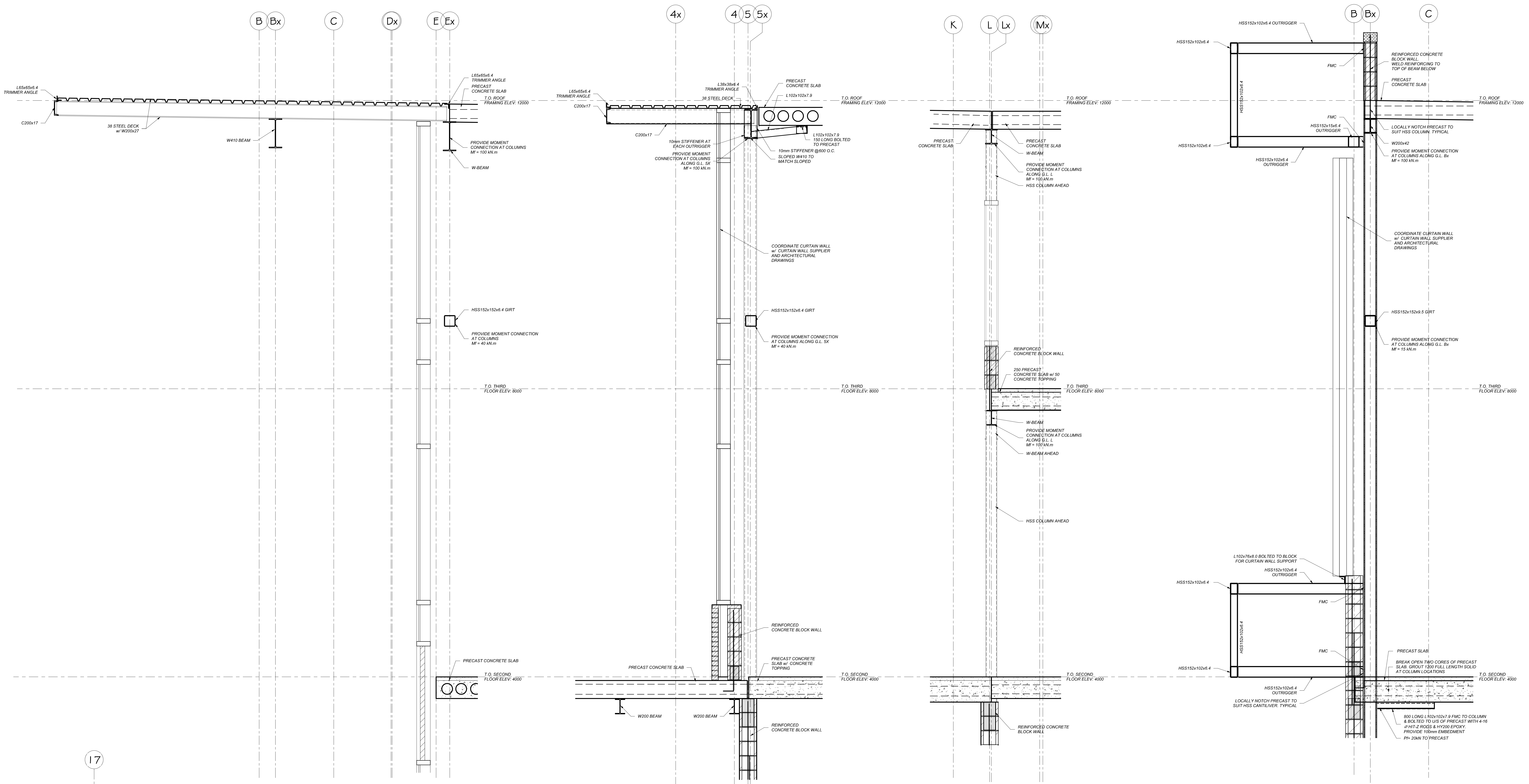
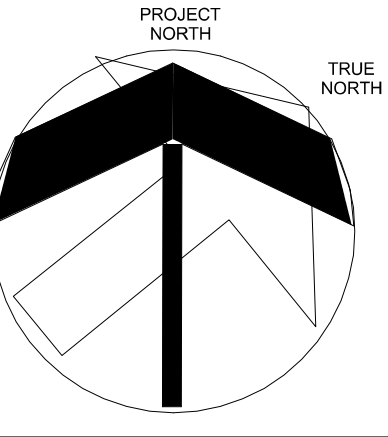


**WALL SECTIONS**



SCALE	1:20	PROJECT	22104
DATE	AUGUST, 2022	DRAWING	S4.1
DRAWN	SHUVE	CHECKED	GF
PRINT DATE	11/28/2022 11:26:11 AM	REVIT FILE	T:\2015115\09102\Rev\WALL.TON10.RVT





NO.	REVISIONS	DATE
1	ISSUED FOR PERMIT	22-03-26
2	ISSUED FOR TENDER	23-01-04

NO. ISSUED DATE

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT. ONE MUST REPORT ANY DISCREPANCIES TO THE CONSULTANT IN WRITING PRIOR TO THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE CONSULTANT.

CERTIFICATE OF PRACTICE #4292  
**OAKVILLE #3 PUBLIC SCHOOL**  
 1235 WHEAT BROOM DRIVE  
 OAKVILLE, ON

LEGAL DESCRIPTION:  
 BLOCKS #1, REGISTERED PLAN 20A-0347  
 TOWN OF OAKVILLE, REGION OF HALTON

**KALOS ENGINEERING**  
 300 YORK BLVD. HAMILTON, ONT. L8R 3K6  
 PROJECT NO. 22987

HALTON DISTRICT SCHOOL BOARD  
 140 KINGSTON EDUCATION CENTRE  
 1050 QUELPH LINE  
 BURLINGTON, ON. L7R 5Z7  
 TEL: (905) 335-3603  
 FAX: (905) 335-3602

**WALL SECTIONS**

**HOSSACK & ASSOCIATES ARCHITECTS**  
 1215 DUNDAS ST. W.  
 TORONTO, ONT. M6J 1B5  
 TEL: (416) 593-2244 FAX: (416) 593-2245

SCALE: As indicated  
 DATE: AUGUST, 2022  
 DRAWN: SHUVE  
 CHECKED: GF  
 PROJECT: 22104  
 DRAWING: S4.2  
 PRINT DATE: 11/29/2022 11:20:21 AM  
 REVIT FILE: T:\2021\1151092022\Revit\WALL\_TON10.rvt