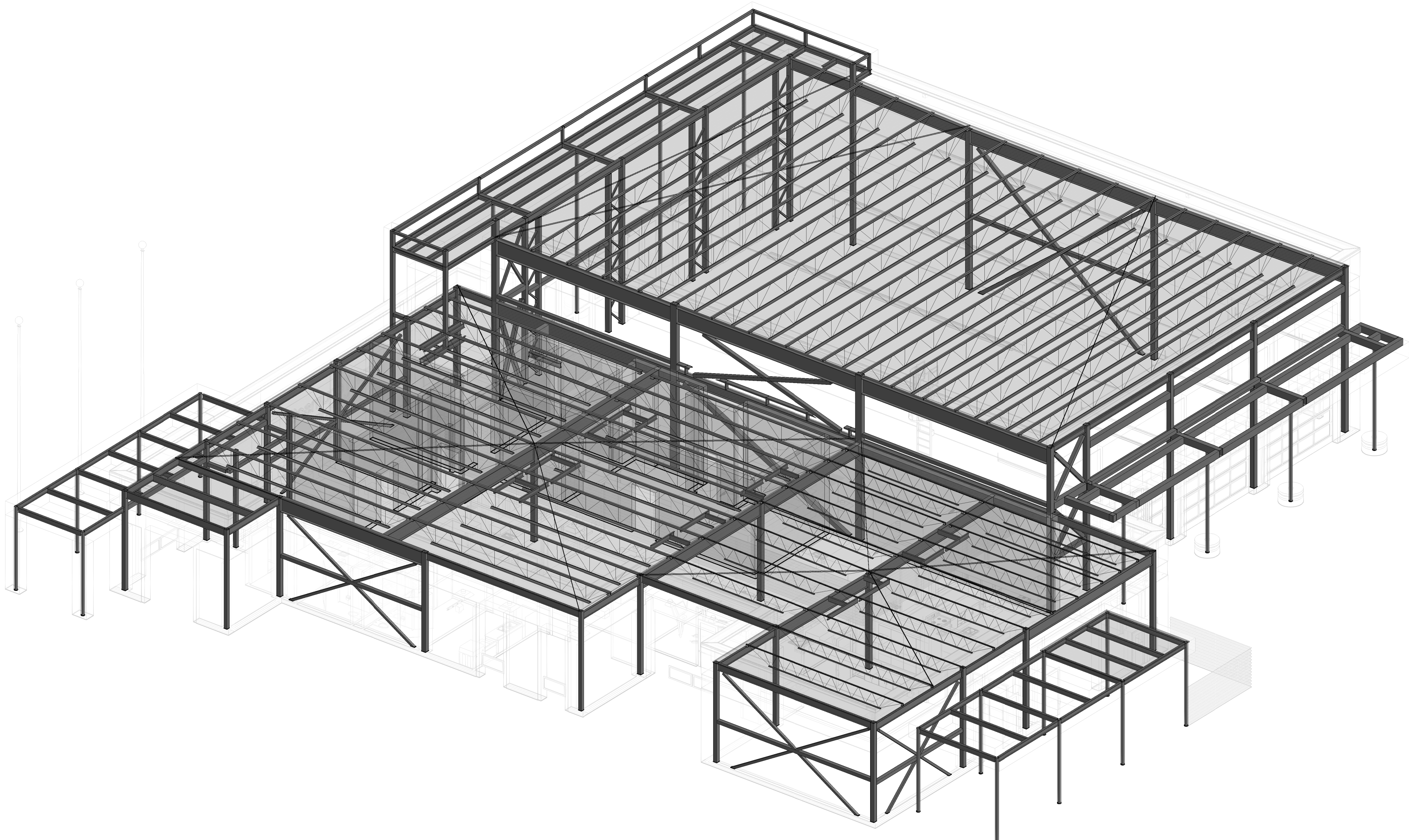


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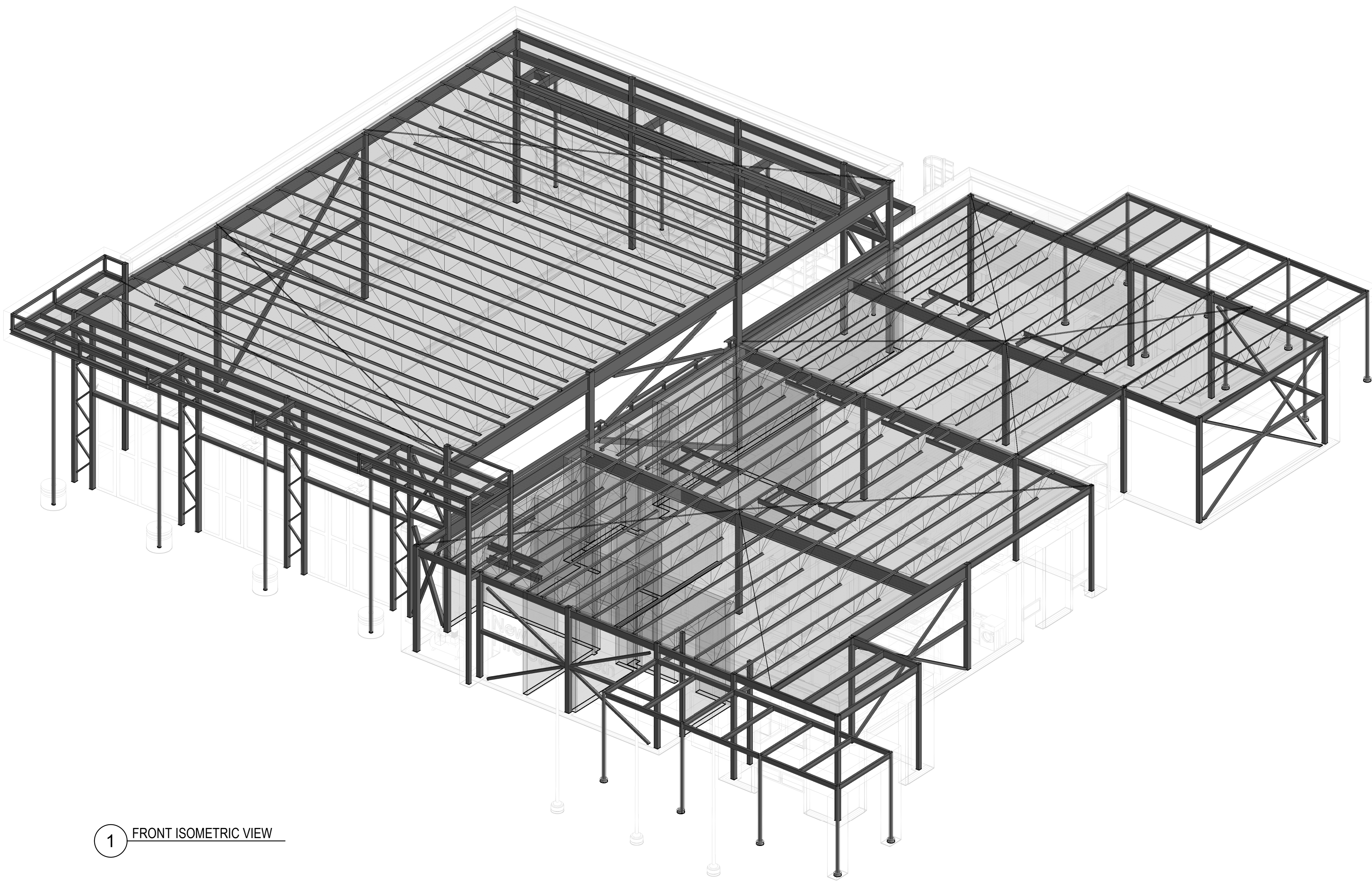
7	ISSUED FOR BUILDING PERMIT	2023-01-07
No.	Description	Date

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PROVIDED ISOMETRIC VIEWS ARE INTENDED TO PROVIDE A GRAPHICAL OVERVIEW OF THE STRUCTURAL CONCEPT. DO NOT USE FOR PRICING OR DEVELOPMENT OF SHOP DRAWINGS AND DETAILS. REFER TO THE FULL DRAWINGS PACKAGE FOR ALL RELEVANT INFORMATION.



2 REAR ISOMETRIC VIEW



1 FRONT ISOMETRIC VIEW

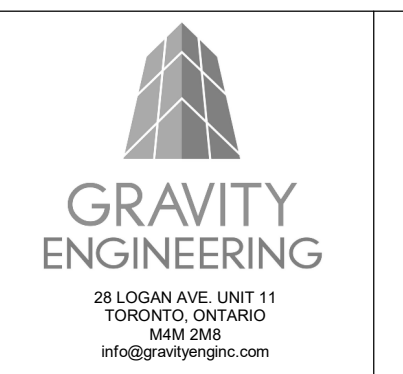
DRAWING LIST	
Sheet Number	Sheet Name
S110	GENERAL NOTES
S200	FOUNDATION PLAN
S210	FOUNDATION DETAILS
S220	FOUNDATION DETAILS
S230	FOUNDATION SECTIONS
S300	ROOF FRAMING PLAN
S301	CANOPY ROOF FRAMING PLAN AND ISOMETRIC VIEW
S310	ROOF DIAPHRAGM DETAILS
S320	ROOF FRAMING DETAILS
S400	ROOF FRAMING SECTIONS
S401	ROOF FRAMING SECTIONS
S402	ROOF FRAMING SECTIONS
S500	ELEVATION AND DETAIL
S501	ELEVATION AND DETAIL

Scale

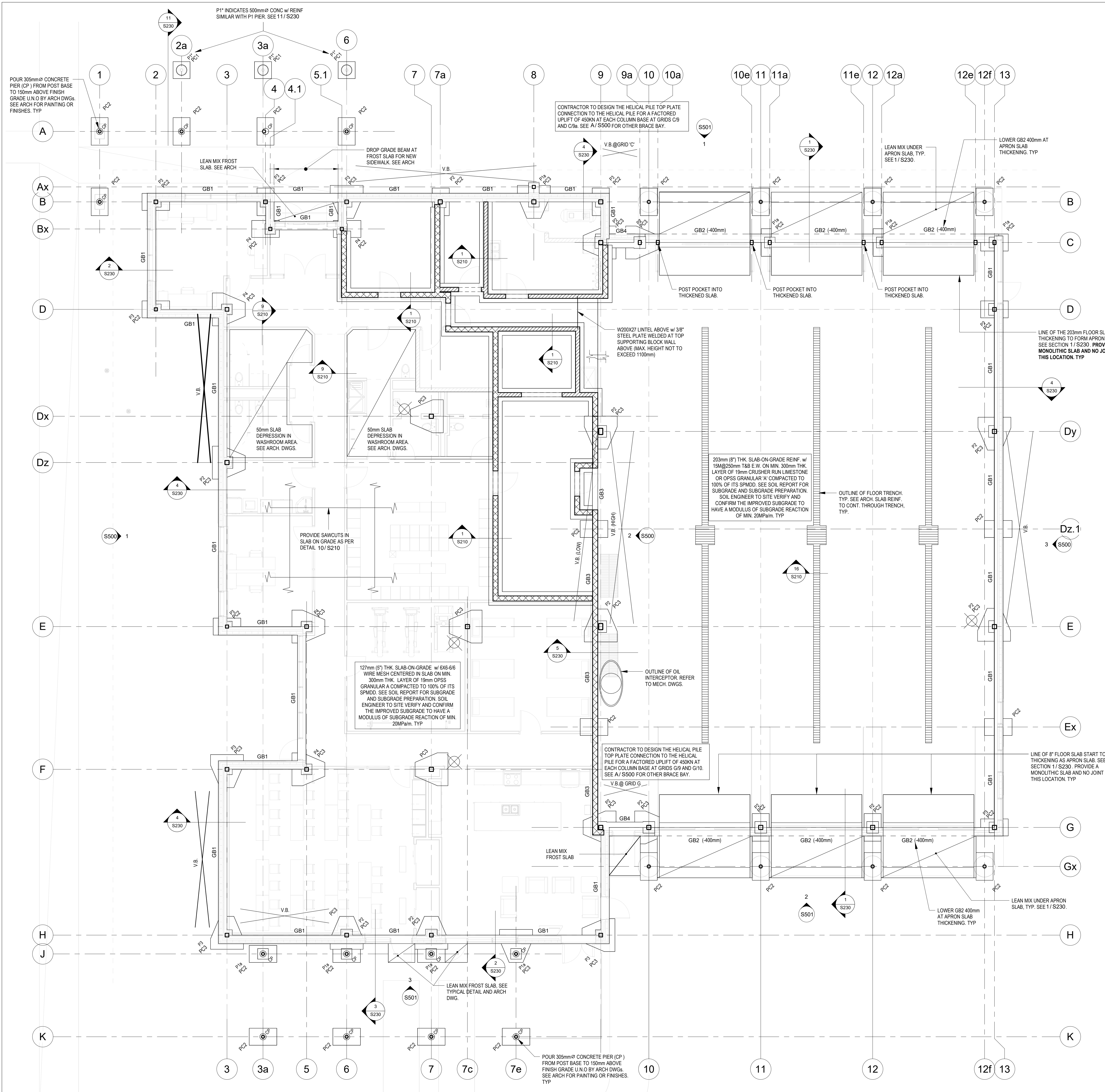
**NEW TECUMSETH
FIRE STATION 4**

6375 14th LINE, ALLISTON, ONTARIO

COVER SHEET



JOB: 2019-095 DRAWING: S100
 DATE: 2023-07-13



- FOUNDATION NOTES**
- ENSURE THAT THE MINIMUM FROST DEPTH AS SPECIFIED IN THE SOIL REPORT IS ATTAINED FOR ALL EXTERIOR AND BUILDING PERIMETER FOUNDATIONS, AND ALL INTERIOR FOUNDATIONS IN UNHEATED AREAS. SEE REPORT NO. SP19-465-10-A1-R3 PREPARED BY SIRATI & PARTNERS CONSULTANTS LTD. DATED NOVEMBER 28, 2022.
 - ALL WALL FOOTINGS TO HAVE 300mm PROJECTIONS AND BE 300mm THICK. U.N.O
 - FOUNDATION WALLS ARE SHOWN THUS ON PLAN.
 - LOWER FOOTINGS BELOW ALL INCOMING SERVICES. ALSO SEE TYPICAL DETAIL DRAWING. SEE MECHELEC.
 - S.F.U. DENOTES STEP FOOTING UP. SEE DETAILS ON TYPICAL DETAILS DRAWING.
 - ALL FOOTING EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY A COMPETENT SOIL ENGINEER BEFORE PLACING CONCRETE.
 - CENTRE ALL BASE PLATES, PIERS, AND FOOTINGS UNDER COLUMN UNLESS NOTED OTHERWISE ON PLANS.
 - STRUCTURAL STEEL IN CONTACT WITH EARTH SHALL BE PROTECTED WITH MINIMUM 75mm OF CONCRETE OR EQUIVALENT WATERPROOFING.
 - PROVIDE SAWCUTS IN SLAB ON GRADE 3mm WIDE x 25mm DEEP ALONG COLUMN LINES AND AT MAXIMUM 36 TIMES THE SLAB THICKNESS. INSTALL IN ACCORDANCE WITH CSA A23.1 RECOMMENDATIONS. ALSO SEE C.J. ON PLAN.
 - WHERE FLOOR DEPRESSIONS OCCUR, MAINTAIN THE SLAB THICKNESS SPECIFIED ON THE FOUNDATION PLANS. SEE ARCH. DRAWINGS FOR LOCATIONS AND AREAS.
 - FOR COLUMN, PIER, AND FOOTING SCHEDULES, SEE SCHEDULE DRAWING.
 - FINISHED GROUND FLOOR ELEVATION 221.75m.
 - LOWER UNDERSIDE OF BASE PLATE AT RAIN WATER LEADER (RWL) LOCATIONS INDICATED THUS ON PLAN: -1'-6" (-480mm) BELOW TOP OF SLAB.
 - ALL PILES SHALL EXTEND INTO COMPETENT SOIL STRATUM AS PER THE GEOTECHNICAL REPORT
 - HELICAL PILES SHALL BE DESIGNED AND INSTALLED BY A QUALIFIED HELICAL PILE CONTRACTOR WITH AT LEAST 5 YEARS EXPERIENCE MANUFACTURING AND INSTALLING HELICAL PILES
 - DESIGN DRAWINGS SEALED BY A PROFESSIONAL ENGINEER STATING THE PROPOSED HELICAL PILE AND ASSOCIATED GEOTECHNICAL RESISTANCE FACTOR SHALL BE SUBMITTED
 - MINIMUM COMPRESSIVE LOAD CAPACITY PER PILE OF 370 kN (SLS) AND 500 kN (ULS) AS PER GEOTECHNICAL REPORT RECOMMENDATIONS. CONTRACTOR TO DESIGN MINIMUM CAPACITY OF THE GROUP OF PILES PER PILE CAP LOADING SCHEDULE.
 - MINIMUM TENSILE UPLIFT CAPACITY PER PILE OF 135 kN (SLS) AND 150 kN (ULS) AS PER GEOTECHNICAL REPORT RECOMMENDATIONS. CONTRACTOR TO DESIGN UPLIFT CAPACITY OF THE GROUP OF PILES AT BRACING BAY AS SHOWN ON THE DRAWINGS.
 - ALL HELICAL PILE SHAFTS AND HELICES SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 AFTER FABRICATION
 - CEMENT FOR HELICAL PULL DOWN MICROPILE GROUT SHALL BE TYPE G PORTLAND CEMENT CONFORMING TO CSA A3000 CEMENTITIOUS MATERIAL COMPENDIUM.
 - CENTERLINE OF HELICAL PILE SHALL NOT BE MORE THAN 75 mm (3 INCHES) FROM INDICATED LOCATION ON PLAN.
 - HELICAL PILE PLUMBNESS SHALL BE WITHIN 2 DEGREES OF DESIGN ALIGNMENT
 - TOP ELEVATION OF HELICAL PILE SHALL BE WITHIN +/- 50 mm (2 INCHES) OF THE DESIGN VERTICAL ELEVATION
 - HOT ROLLED ROUND-CORNER-SQUARE BARS MEETING THE DIMENSIONAL AND WORKMANSHIP REQUIREMENTS OF ASTM A29
 - STRUCTURAL STEEL TUBE OR PIPE, WELDED OR SEAMLESS, IN COMPLIANCE WITH ASTM 500 OR A618

CONCRETE BLOCK WALL REINFORCEMENT:

SYMBOL	THICKNESS (ACTUAL)	DESCRIPTION	REINFORCEMENT
	190mm	INTERIOR NON-LOADING BEARING PARTITION	15M@800mm o.c w/ DOWELS INTO GRADE BEAM OR FOOTING.
	240mm	INTERIOR NON-LOADING BEARING PARTITION	20M@800mm o.c w/ DOWELS INTO GRADE BEAM OR FOOTING.

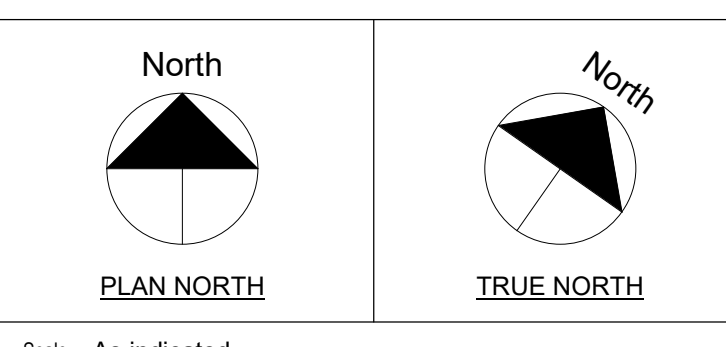
NOTE: CONFIRM WITH ARCH DWGS FOR WALL SCHEDULE AND FINISHES.

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7	ISSUED FOR BUILDING PERMIT	2023-01-07

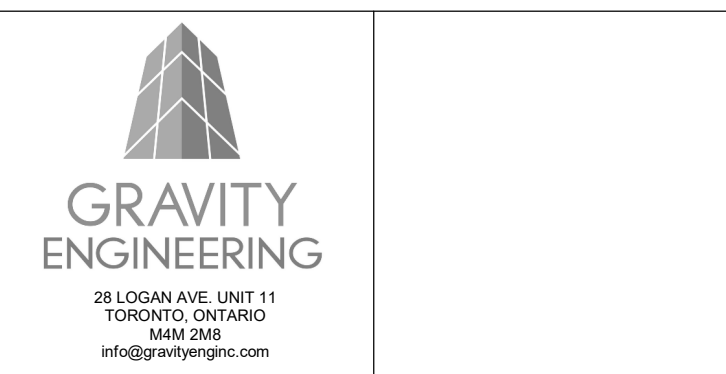
1 FOUNDATION PLAN
1:75

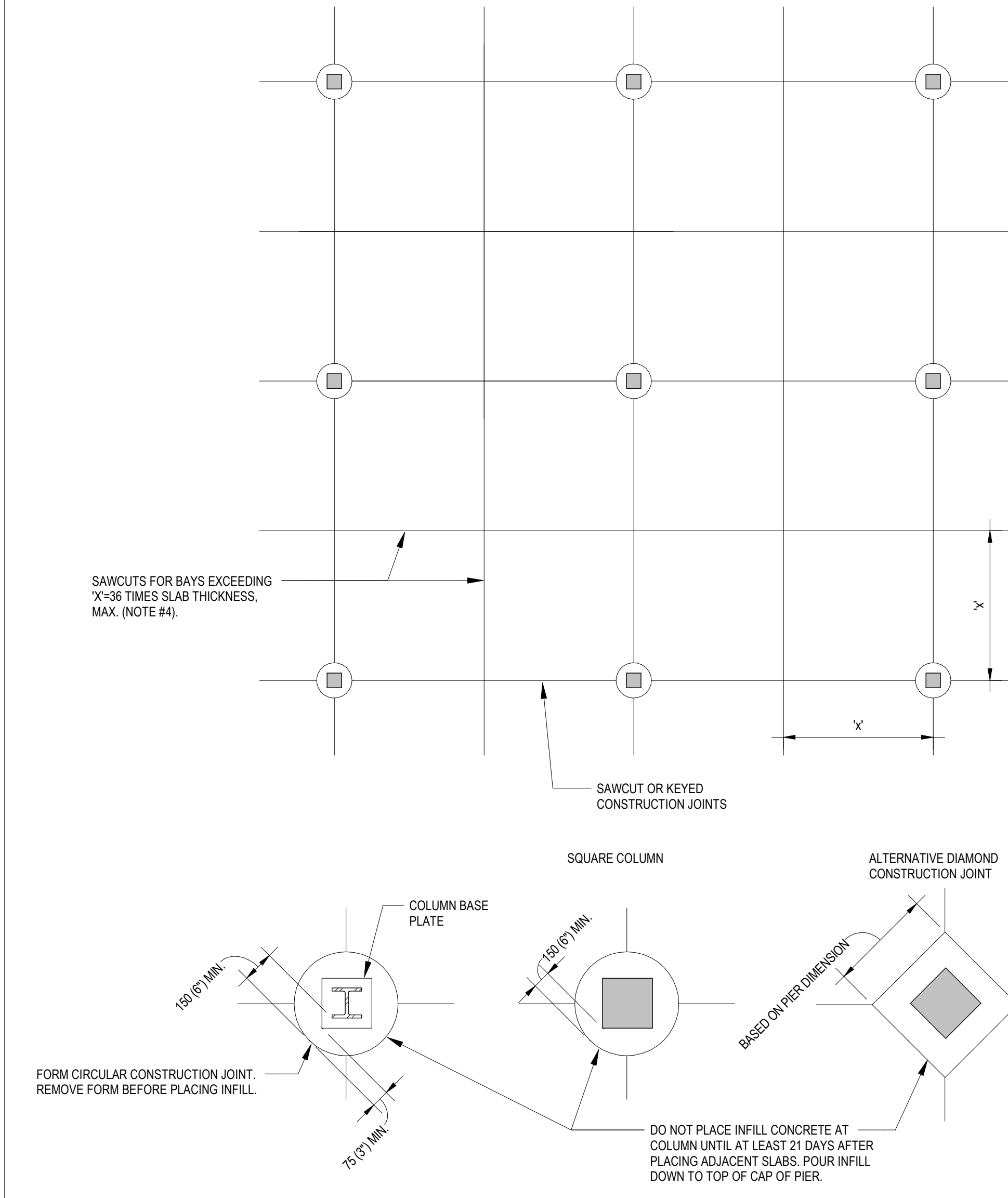


**NEW TECUMSETH
FIRE STATION 4**

6375 14th LINE, ALLISTON, ONTARIO

FOUNDATION PLAN

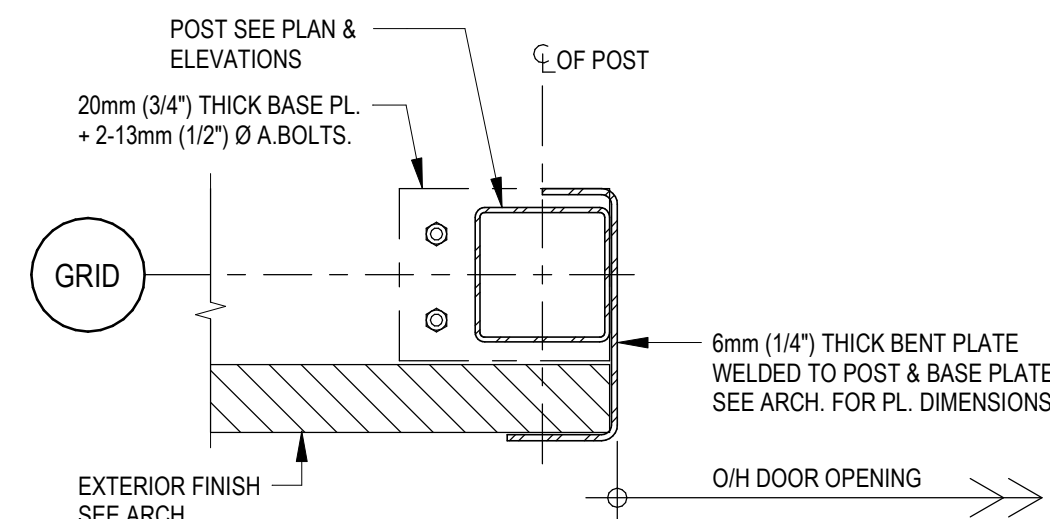




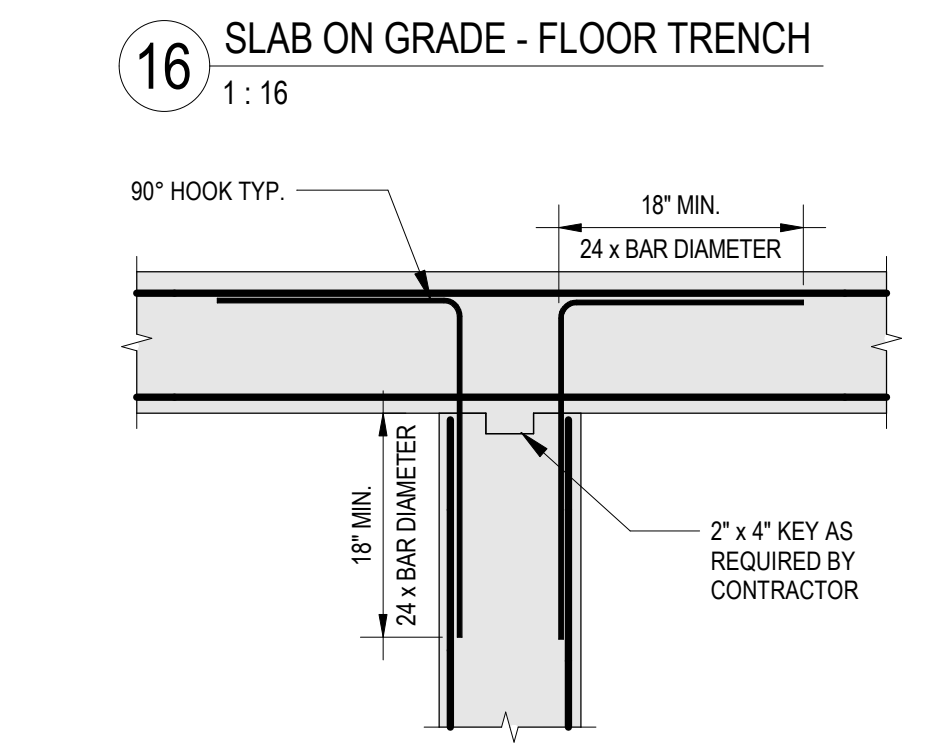
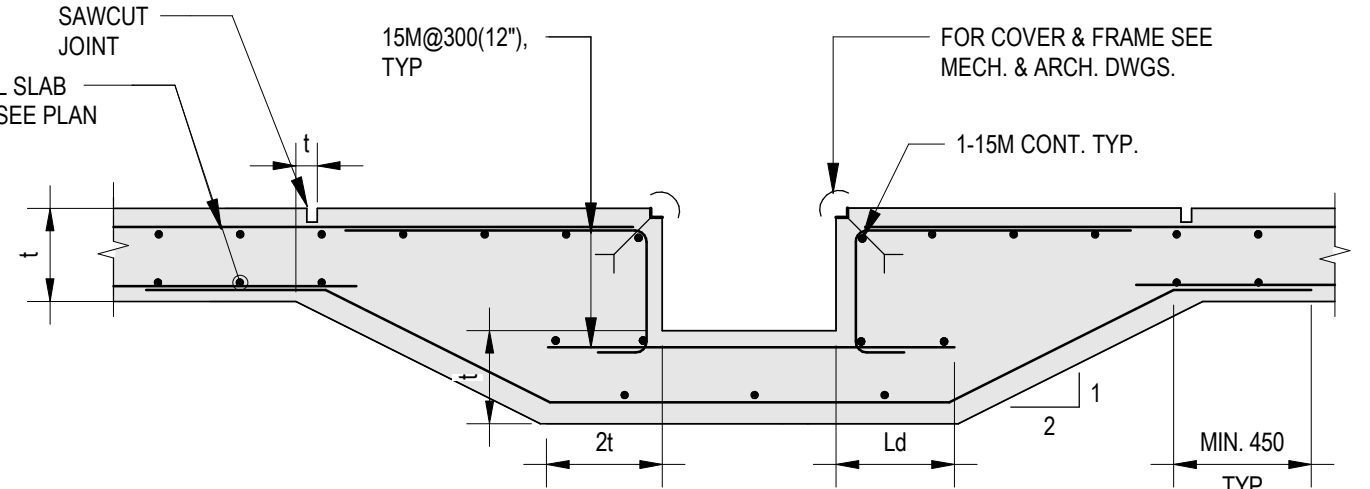
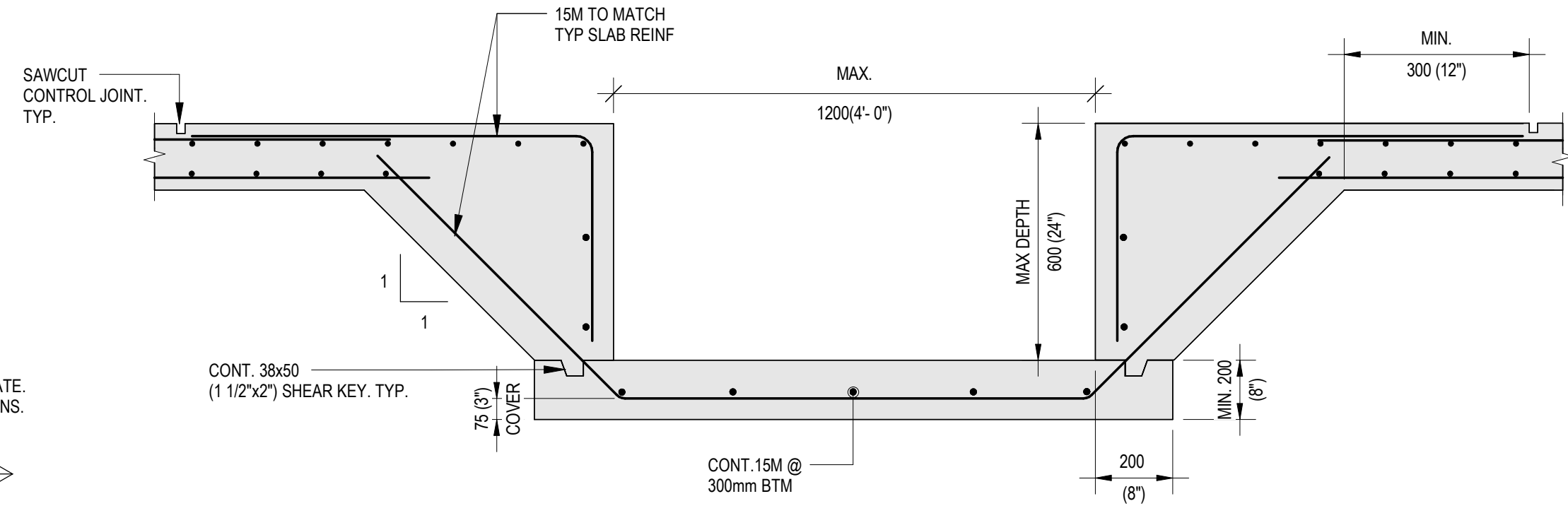
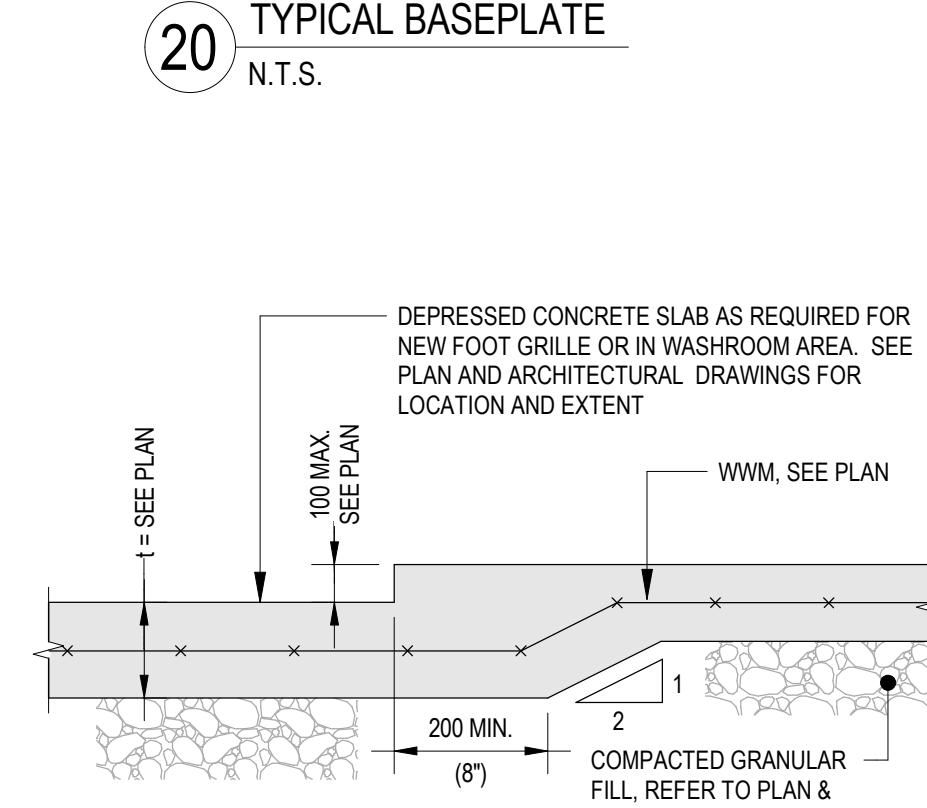
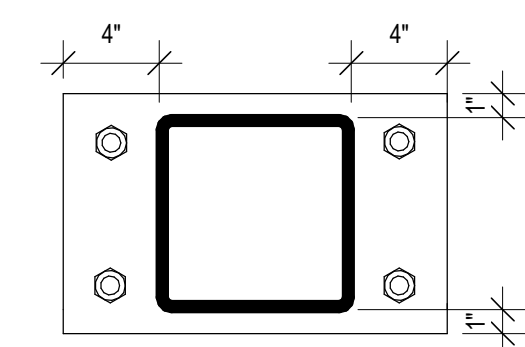
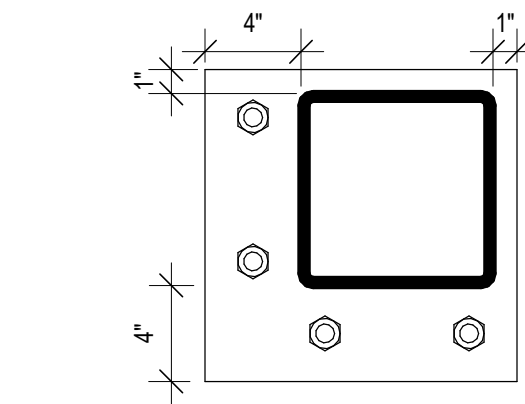
NOTES:

- FORM AROUND CIRCULAR COLUMNS. (NOT REQUIRED AT CIRCULAR COLUMNS).
- PLACE SLAB AREA NO LARGER THAN CAN BE FINISHED IN ONE DAY.
- SAWCUT CONTROL JOINTS AS SOON AS CONCRETE HAS SET SUFFICIENTLY TO AVOID RAVELING EDGES, BUT NO CASE MORE THAN 18 HOURS AFTER PLACING SLAB.
- SAWCUT AT COLUMN CENTERLINES. FOR BAYS EXCEEDING 'X' SAWCUT ALSO INTO PANELS NOT EXCEEDING 'X' UNLESS OTHERWISE NOTED ON PLANS.
- LIMIT RATIO OF LENGTH TO WIDTH OF ANY SAWCUT PANEL TO 1.5 MAX.
- FILL SAWCUT JOINTS WITH SEMI-RIGID EPOXY, IN ACCORDANCE WITH SPECIFICATION.
- DIMENSIONS ARE mm, EXCEPT DIMENSIONS IN BRACKETS ARE INCHES.
- SUBMIT PROPOSED CONTROL AND SAWCUT JOINT LOCATIONS IN DRAWING FORMAT FOR REVIEW PRIOR TO CONSTRUCTION.

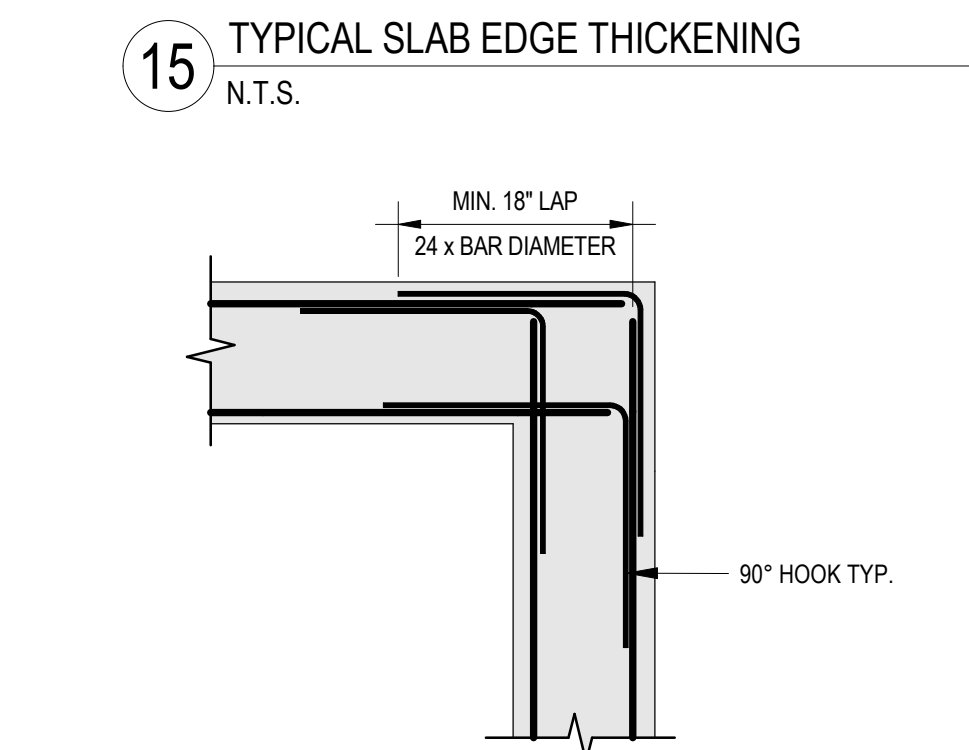
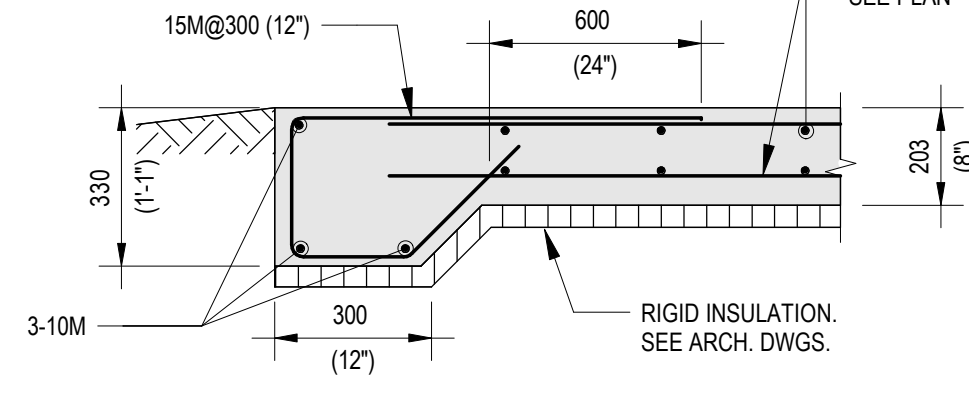
10 SLAB ON GRADE - SAWCUT CONTROL JOINTS
N.T.S.



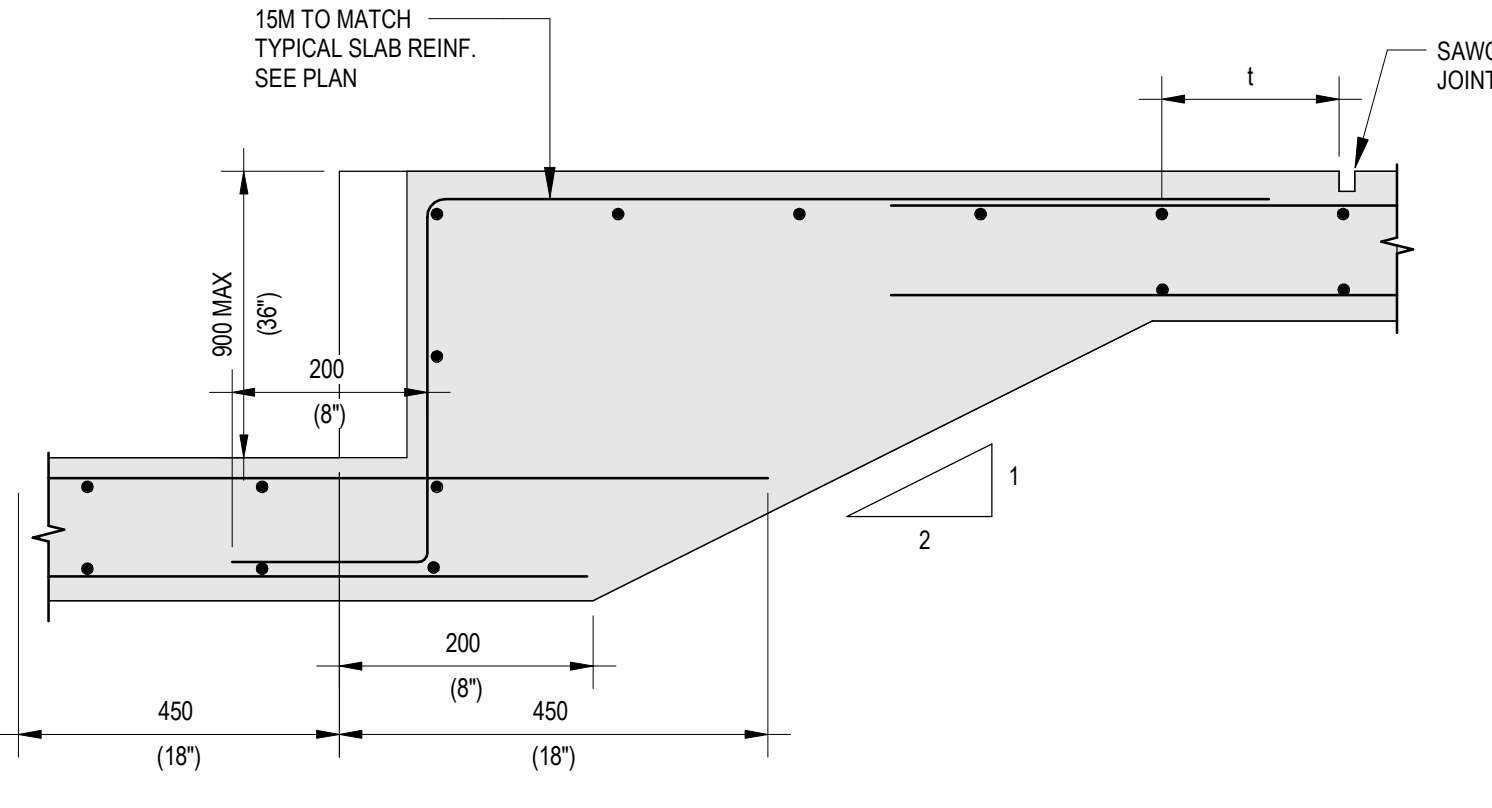
22 TYPICAL OVERHEAD DOOR JAMB DETAIL
N.T.S.



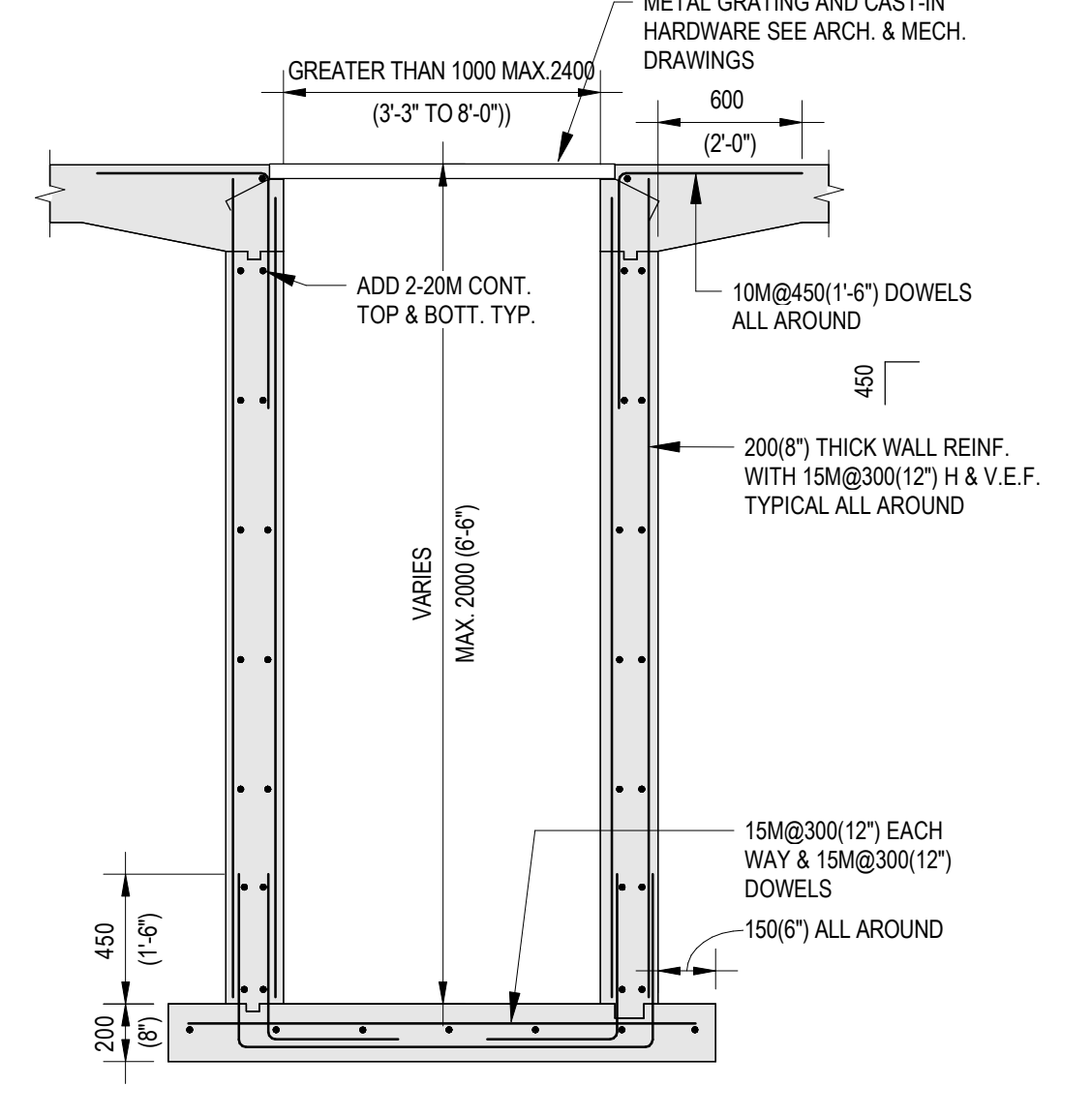
13 TYPICAL CONCRETE 'T' WALL REINFORCEMENT
N.T.S.



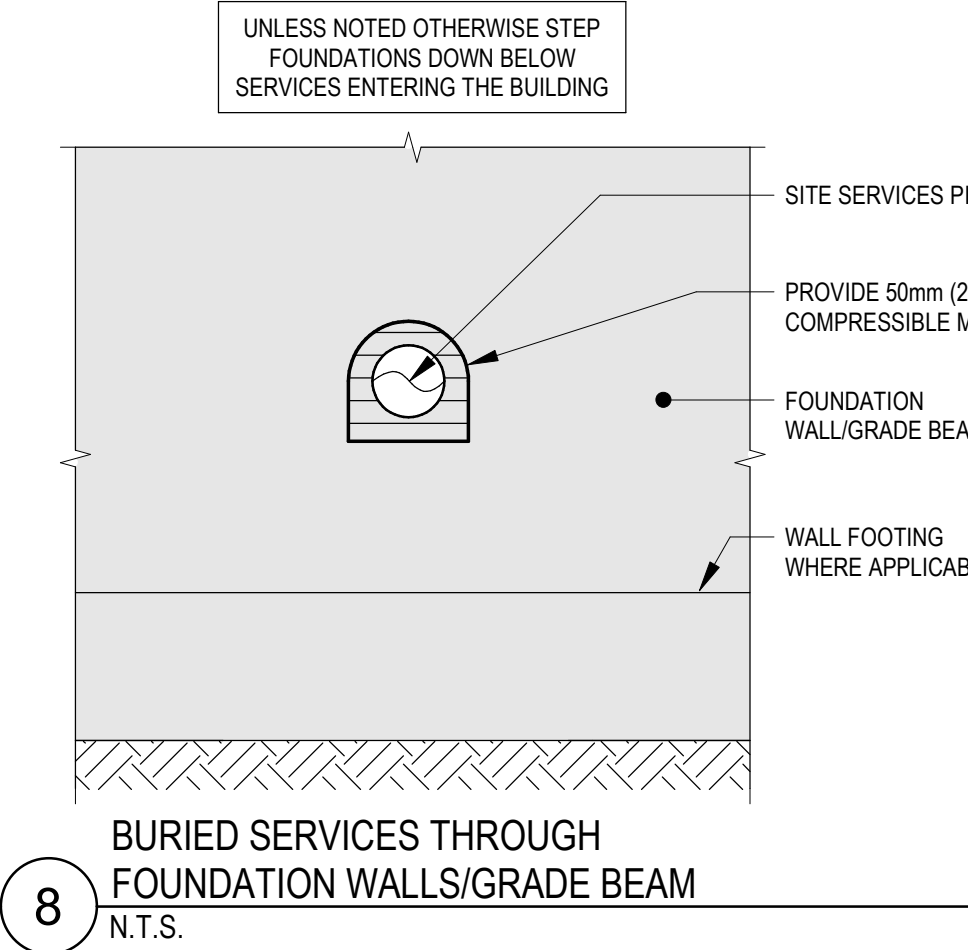
12 TYPICAL CONCRETE CORNER WALL REINFORCEMENT
N.T.S.



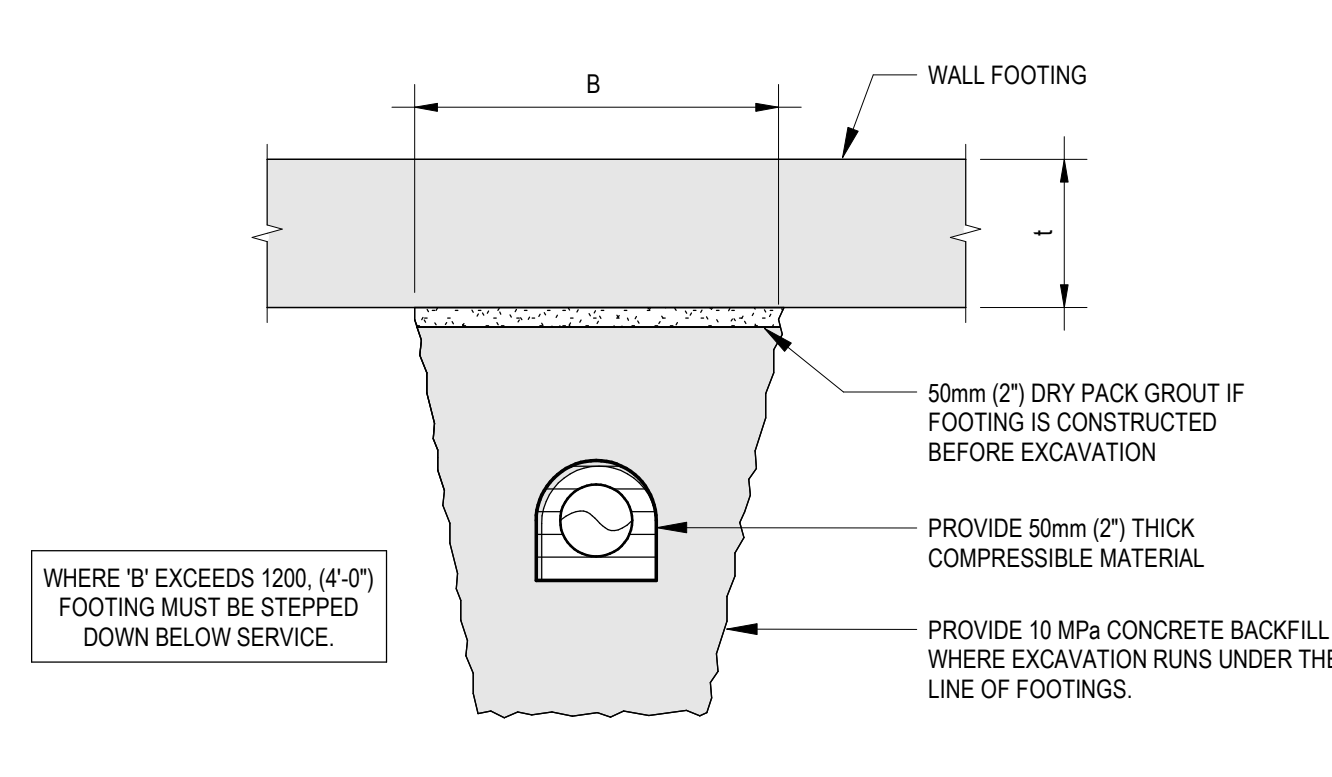
18 SLAB ON GRADE - STEP
N.T.S.



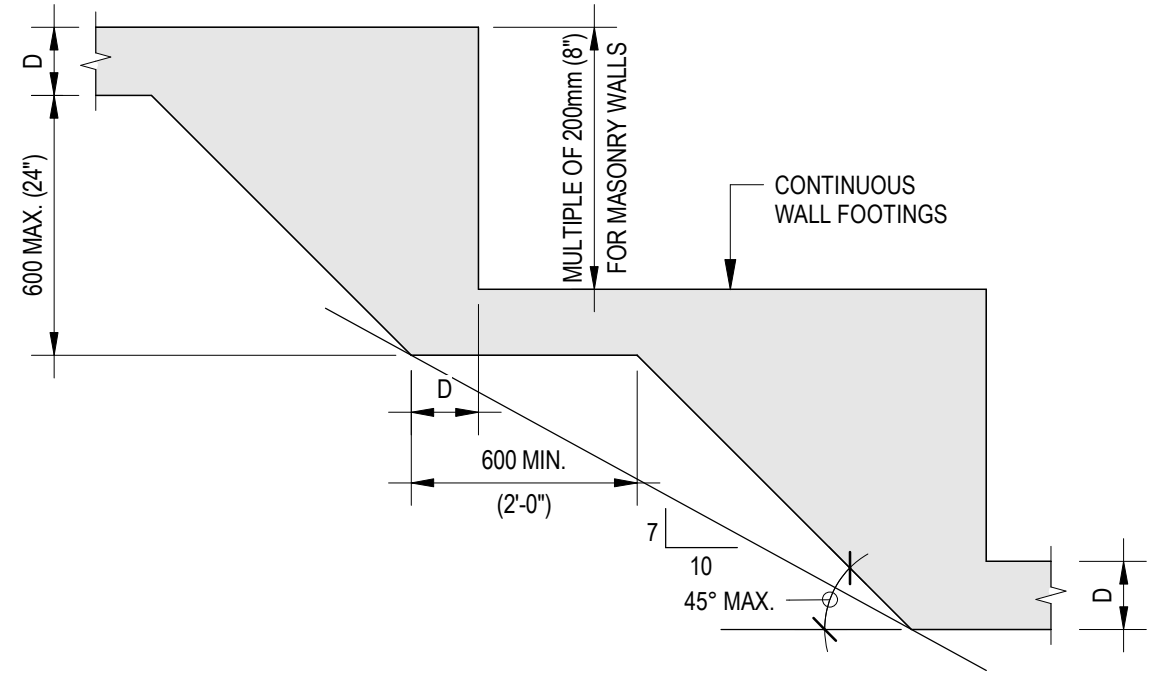
11 TYPICAL SUMP PIT DETAILS
N.T.S.



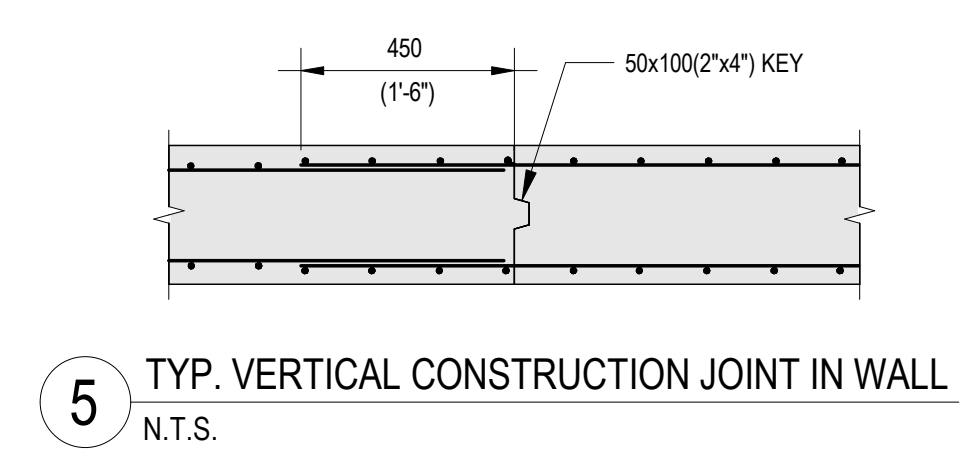
8 BURIED SERVICES THROUGH FOUNDATION WALLS/GRADE BEAM
N.T.S.



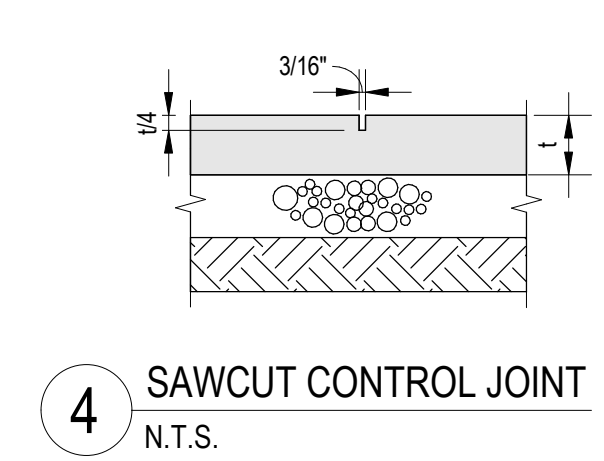
7 STRIP FOOTING OVER BURIED SERVICE
N.T.S.



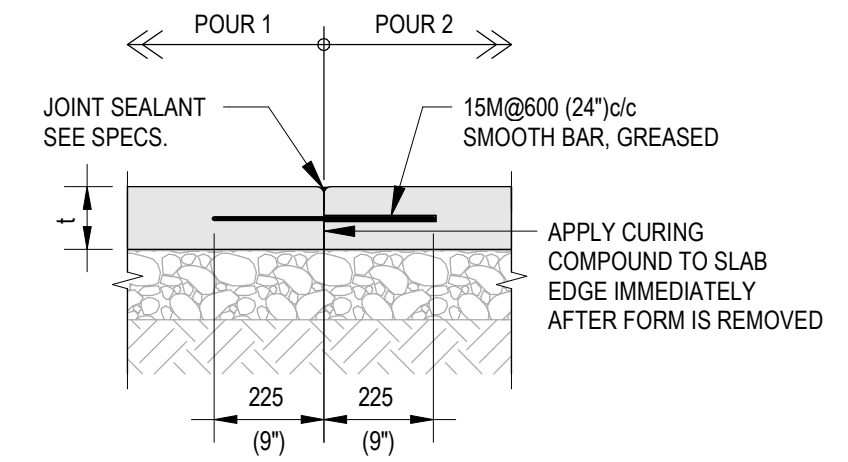
6 TYPICAL STEPPED FOOTING DETAIL
N.T.S.



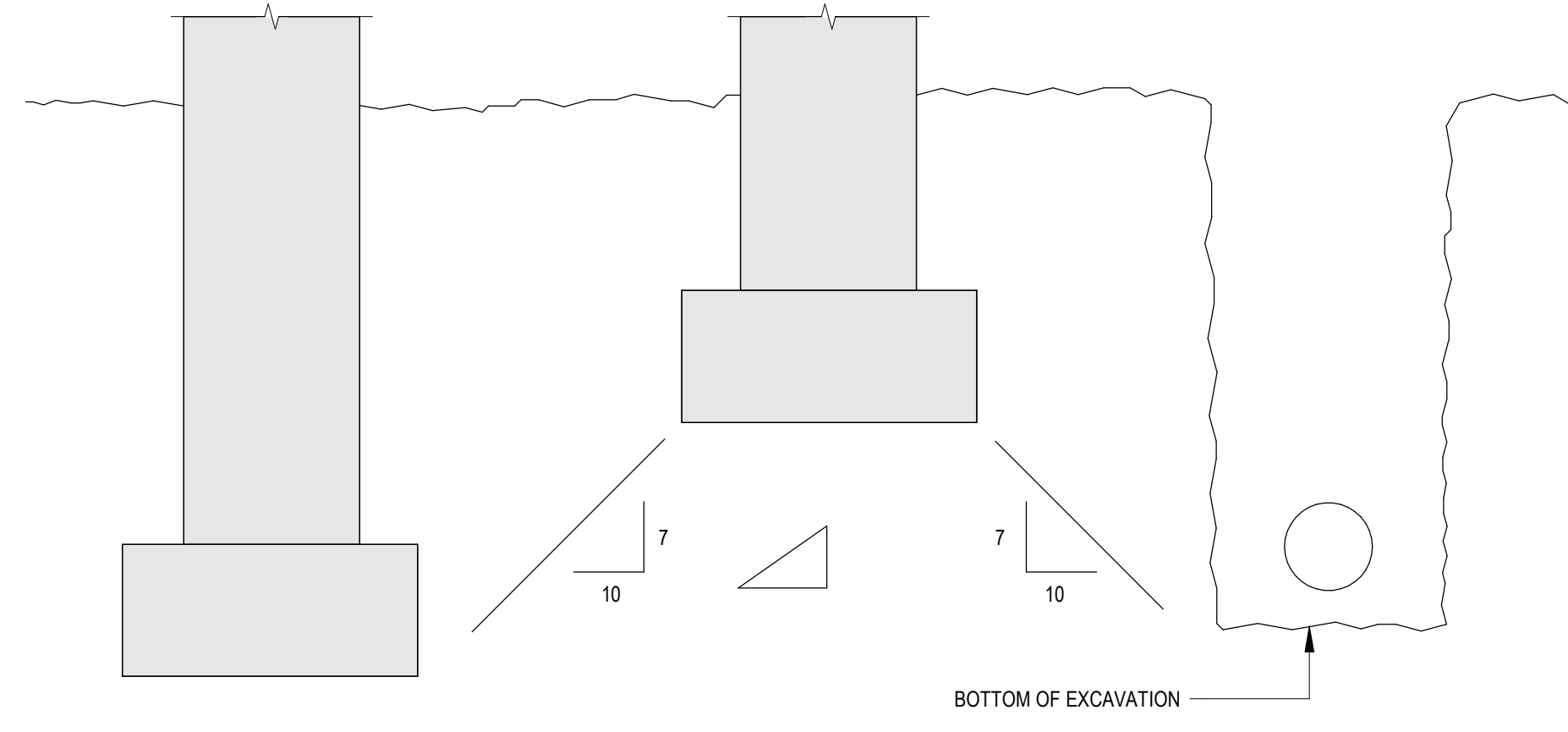
5 TYP. VERTICAL CONSTRUCTION JOINT IN WALL
N.T.S.



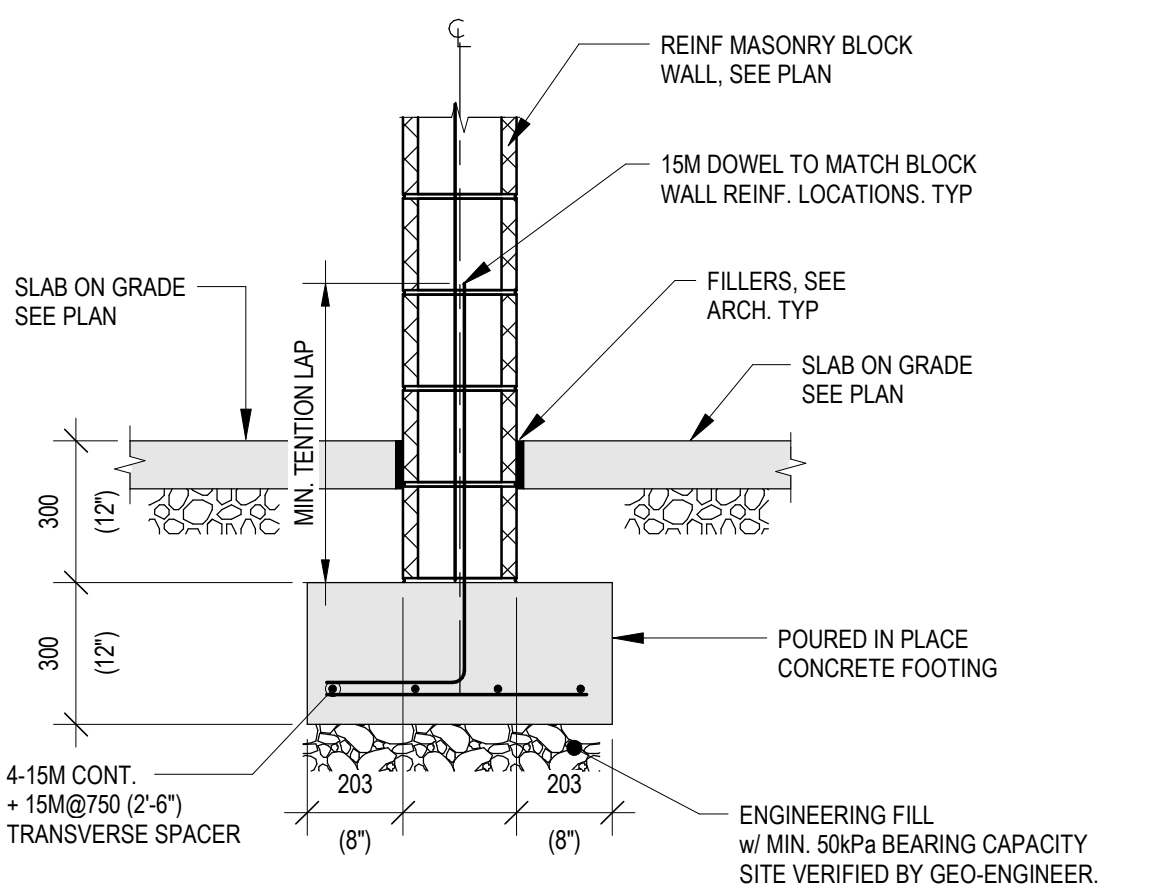
4 SAWCUT CONTROL JOINT
N.T.S.



3 DOWELED CONSTRUCTION JOINT
N.T.S.



2 TYPICAL WALL FOOTING ADJACENT TO EXCAVATIONS
N.T.S.



1 M-05 - MASONRY WALL FOOTING DETAIL
N.T.S.

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Scale: As indicated

NEW TECUMSETH FIRE STATION 4

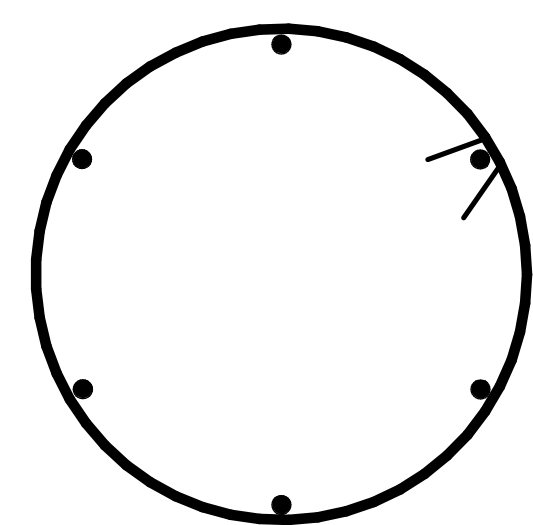
6375 14th LINE, ALLISTON, ONTARIO

FOUNDATION DETAILS

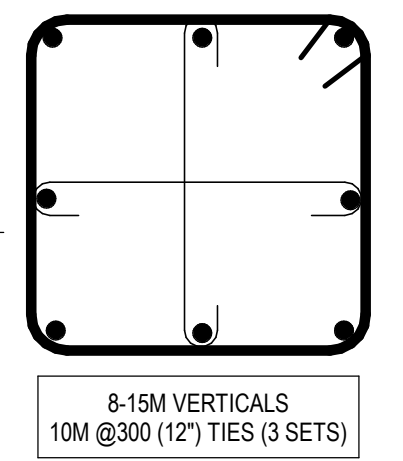
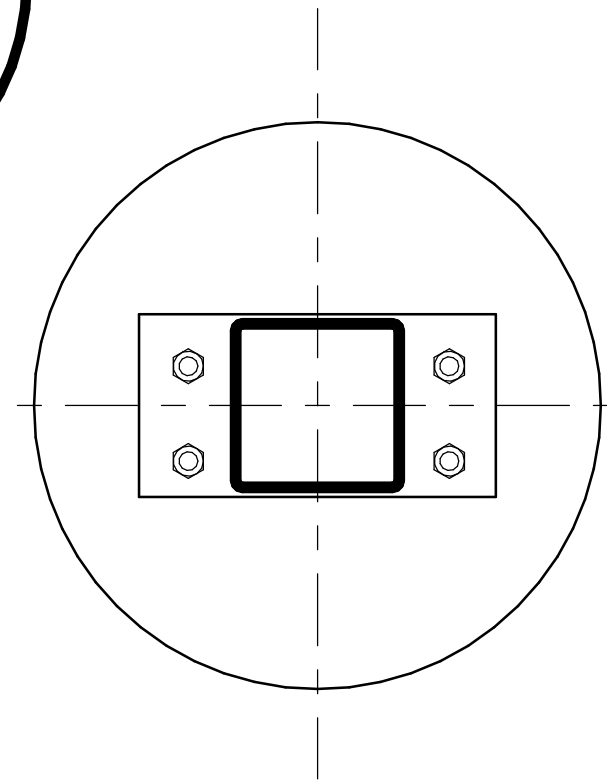
GRAVITY ENGINEERING

28 LOGAN AVE. UNIT 11
TORONTO, ONTARIO
M4M 2A8
www.gravityeng.com

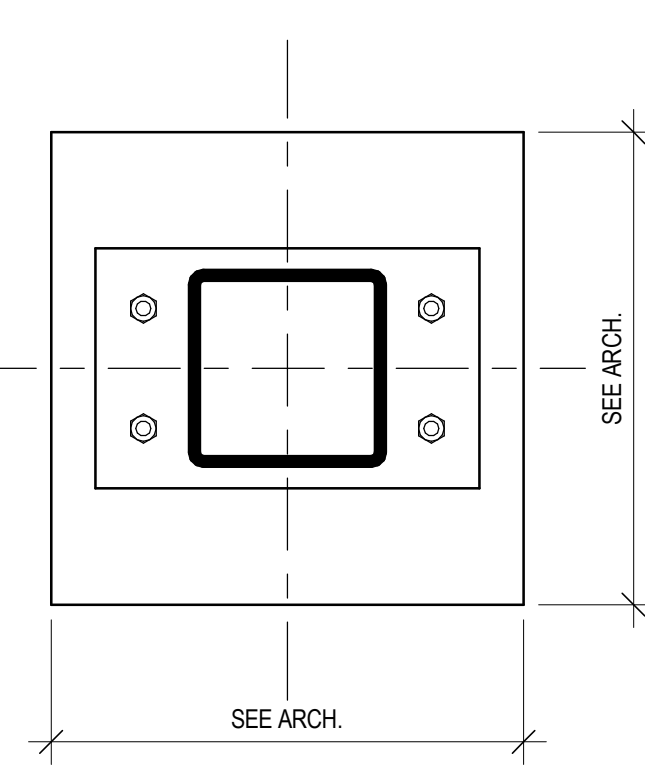
JOB	2019-095	DRAWING	S210
DATE	2023-07-13		



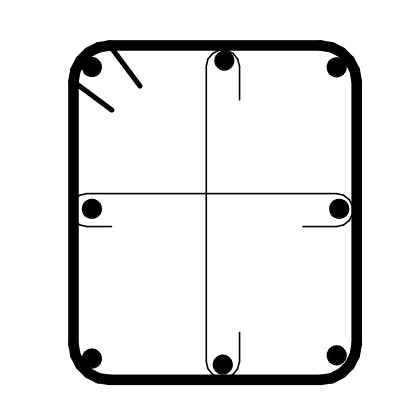
P1: 28" Ø
6-15 VERTICALS
10M @ 12" TIES (3 SETS)



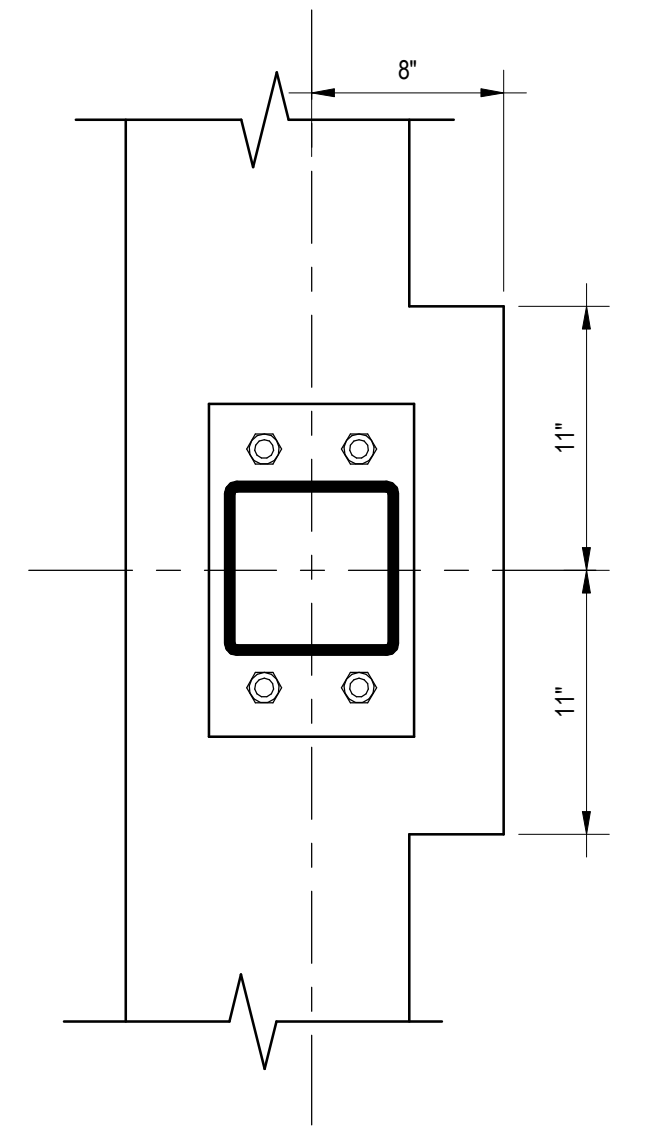
8-15M VERTICALS
10M @ 300 (12" TIES (3 SETS))



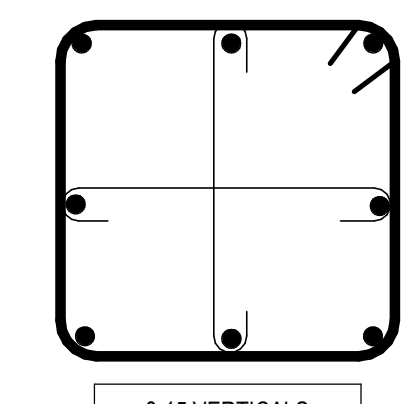
SEE ARCH.



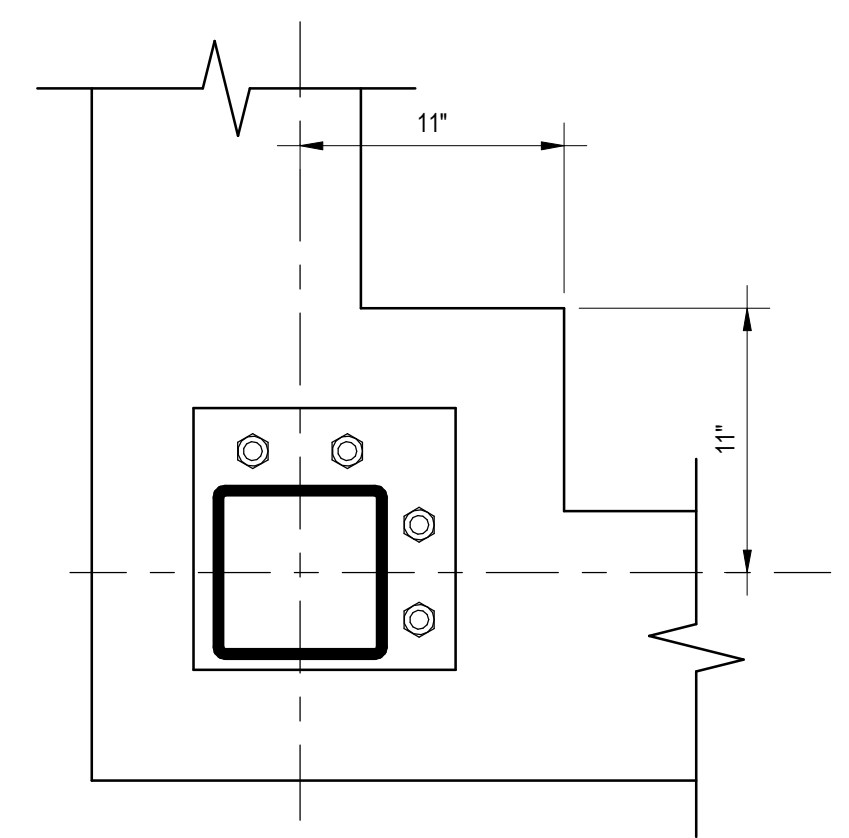
8-15 VERTICALS
10M @ 12" TIES (3 SETS)



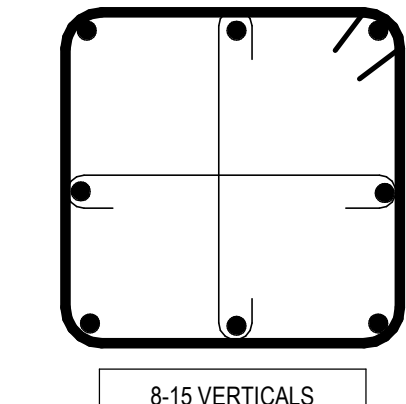
4 "P2" DETAIL
N.T.S.



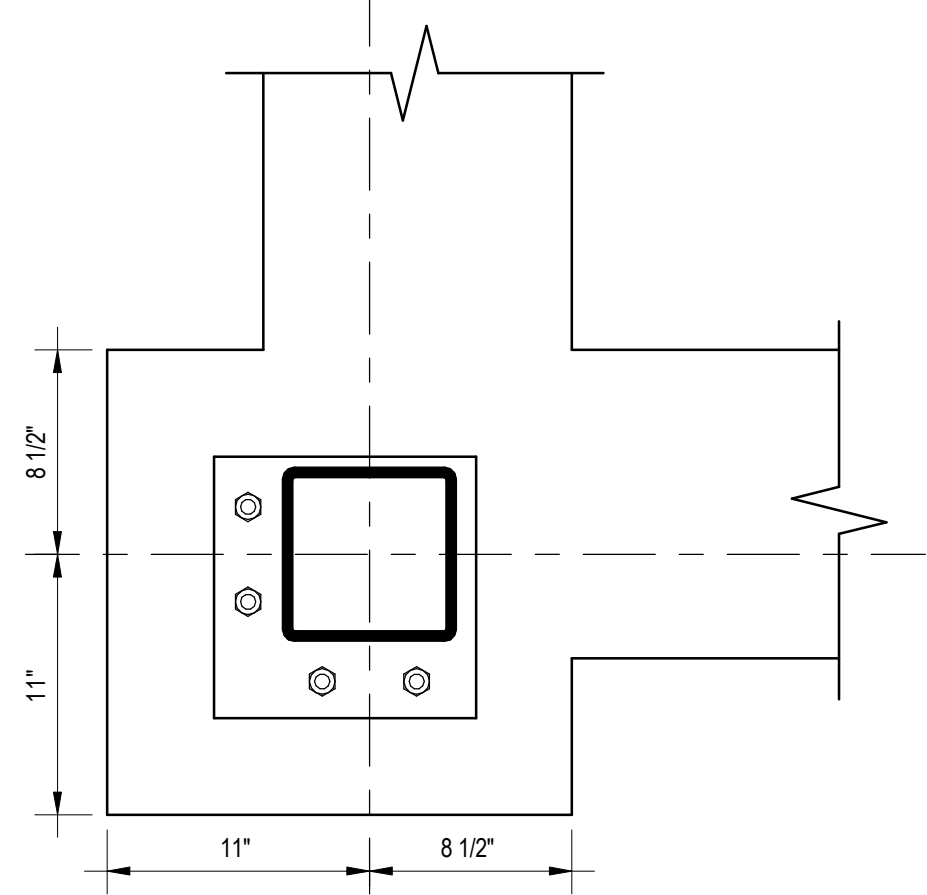
8-15 VERTICALS
10M @ 12" TIES (3 SETS)



5 "P3" DETAIL
N.T.S.



8-15 VERTICALS
10M @ 12" TIES (3 SETS)



6 "P4" DETAIL
N.T.S.

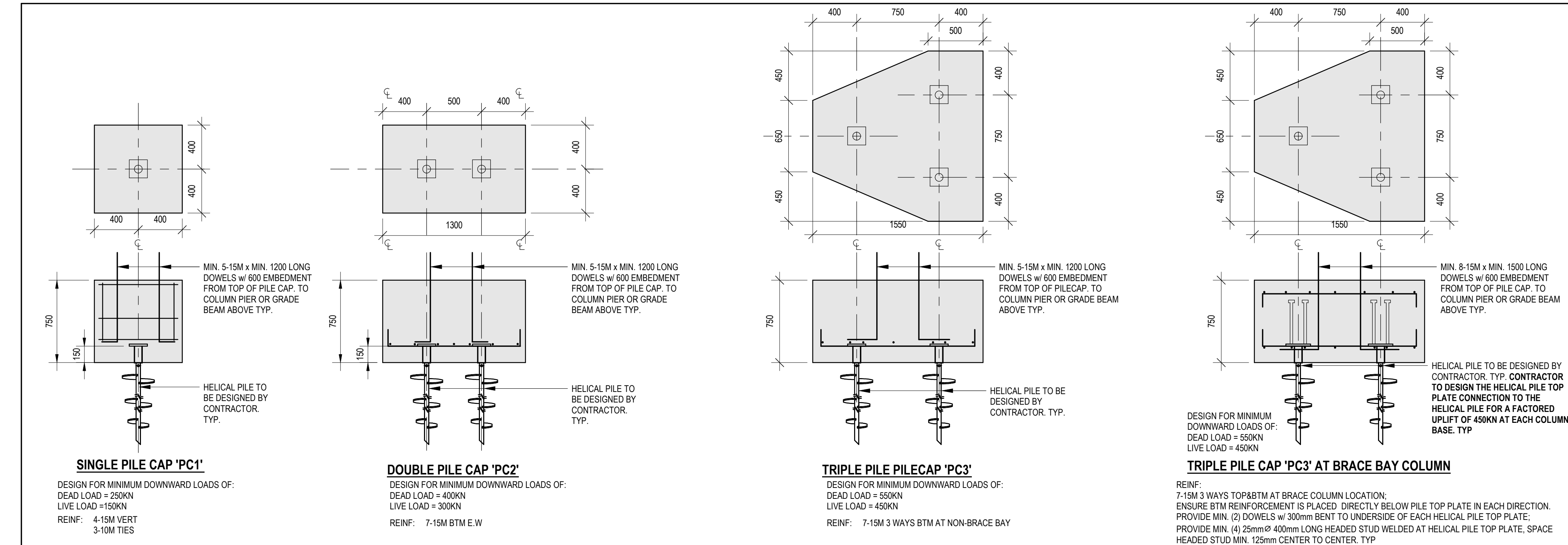
1 "P1" DETAIL
N.T.S.

2 "P1a" PIER DETAIL
1: 8

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BEAM/NO.	CONCRETE		REINFORCEMENT						REMARKS			
	SIZE	SHAPE w/ REINF	LONGITUDINAL BARS			STIRRUPS						
			LOCATION	L	R	TH	RE	EE				
GB1	400x1600		3	20	T				10	□	@ 10"	MIN. (6) STIRRUPS FROM EACH FACE OF SUPPORT
GB2	400x1200		3	20	T				10	□	@ 10"	MIN. (6) STIRRUPS EACH SIDE EXTERIOR FACE OF SUPPORT
GB3	250x1600		3	20	T				10	□	@ 10"	MIN. (6) STIRRUPS EACH SIDE EXTERIOR FACE OF SUPPORT
GB4	650x1400		3	20	T				10	□	@ 10"	MIN. (6) STIRRUPS EACH SIDE EXTERIOR FACE OF SUPPORT

DEPTH OF GRADE BEAM SHOWN TO BE MINIMUM, SEE ARCH FOR TOP ELEVATION AND GEO-REPORT FROST PROTECTION DEPTH.

3 HELICAL PILE CAP SCHEDULE
N.T.S.

NOTE: CONTRACTOR TO DESIGN THE HELICAL PILE TOP PLATE CONNECTION TO THE HELICAL PILE FOR THE REQUIRED UPLIFT FORCE. SEE NOTES ON PLAN AND AT S500 FOR UPLIFT FORCE AT COLUMN BASE IN BRACE BAY.

Scale As indicated

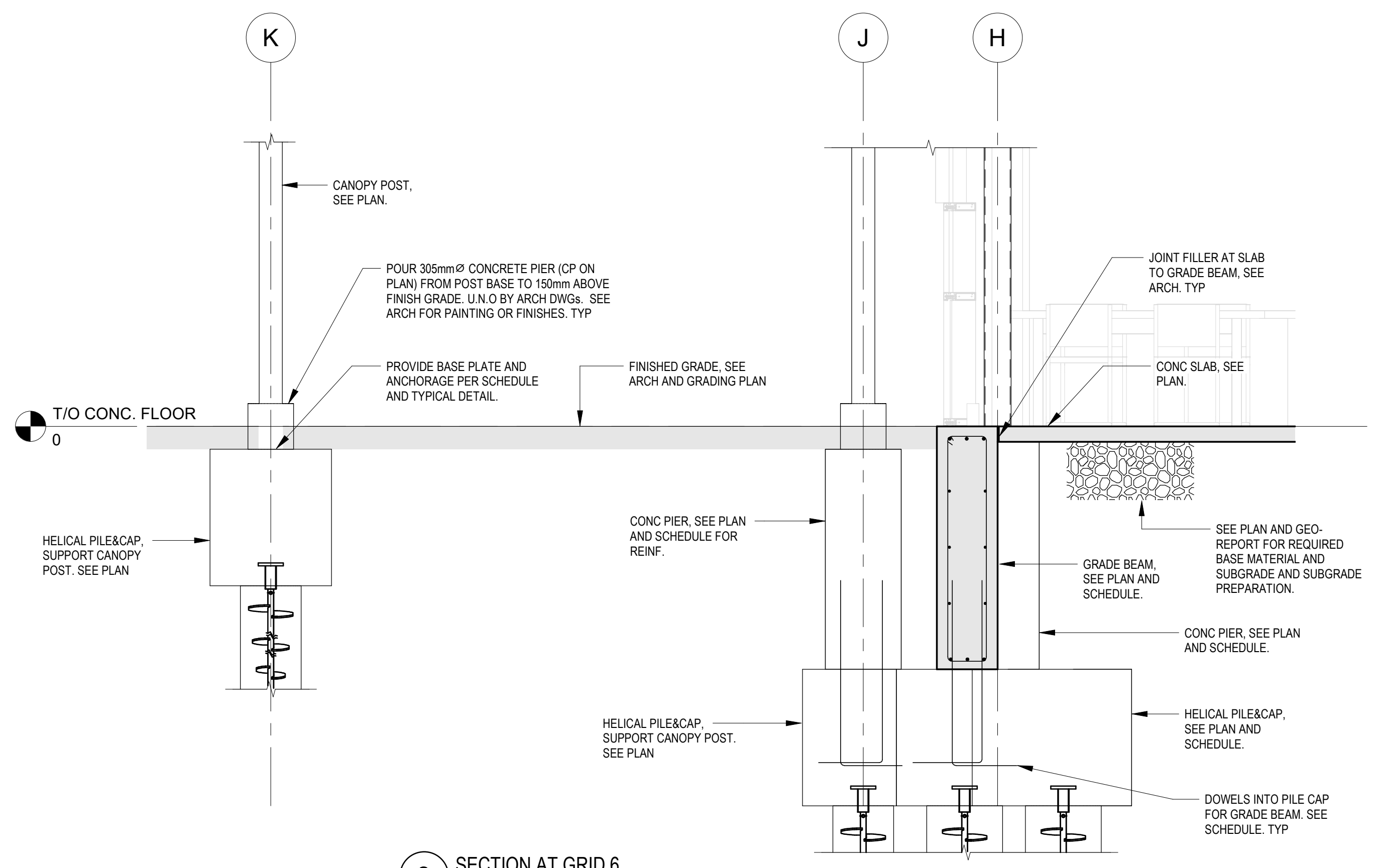
**NEW TECUMSETH
FIRE STATION 4**

6375 14th LINE, ALLISTON, ONTARIO

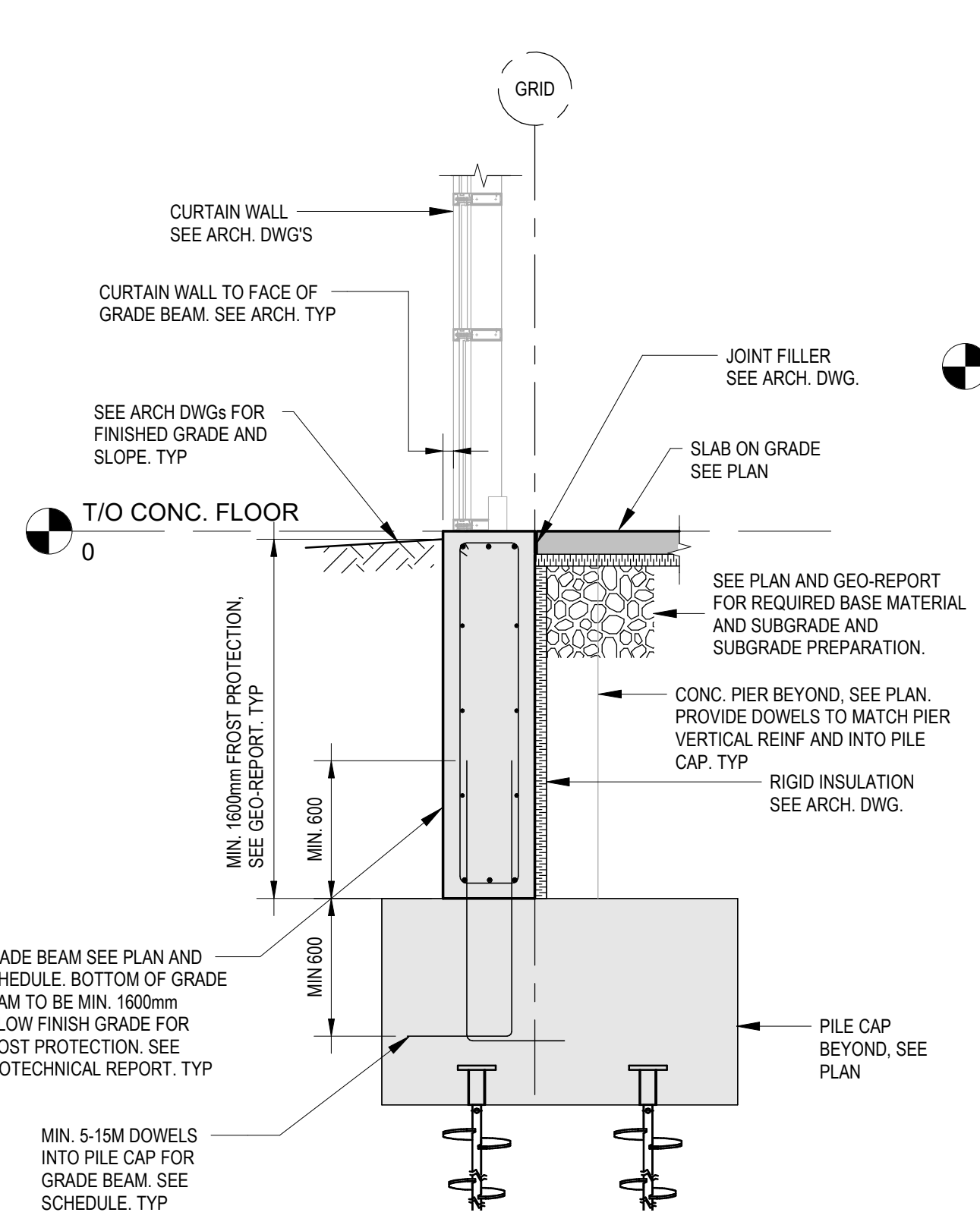
FOUNDATION DETAILS



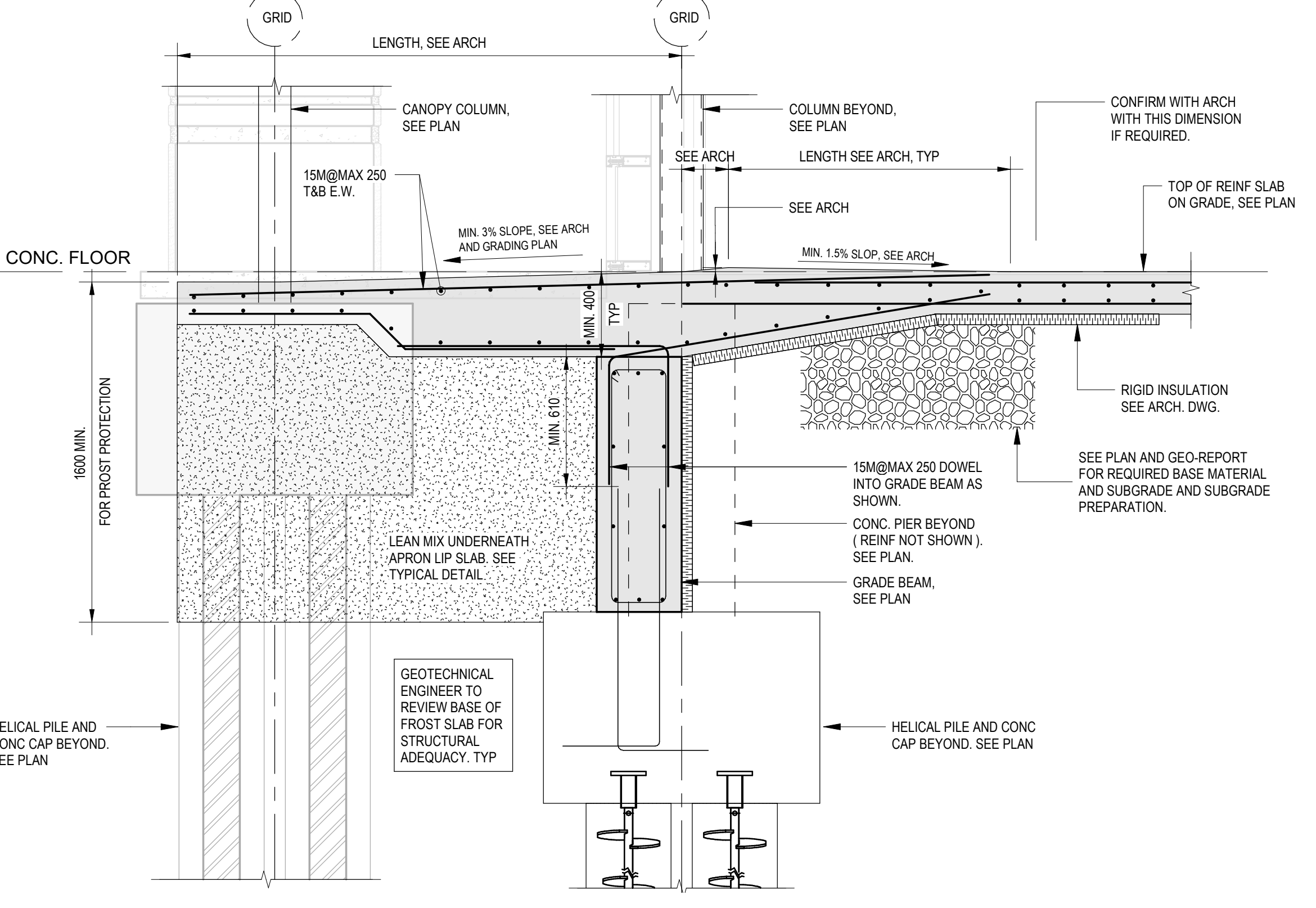
JOB	2019-095	DRAWING	S220
DATE	2023-07-13		



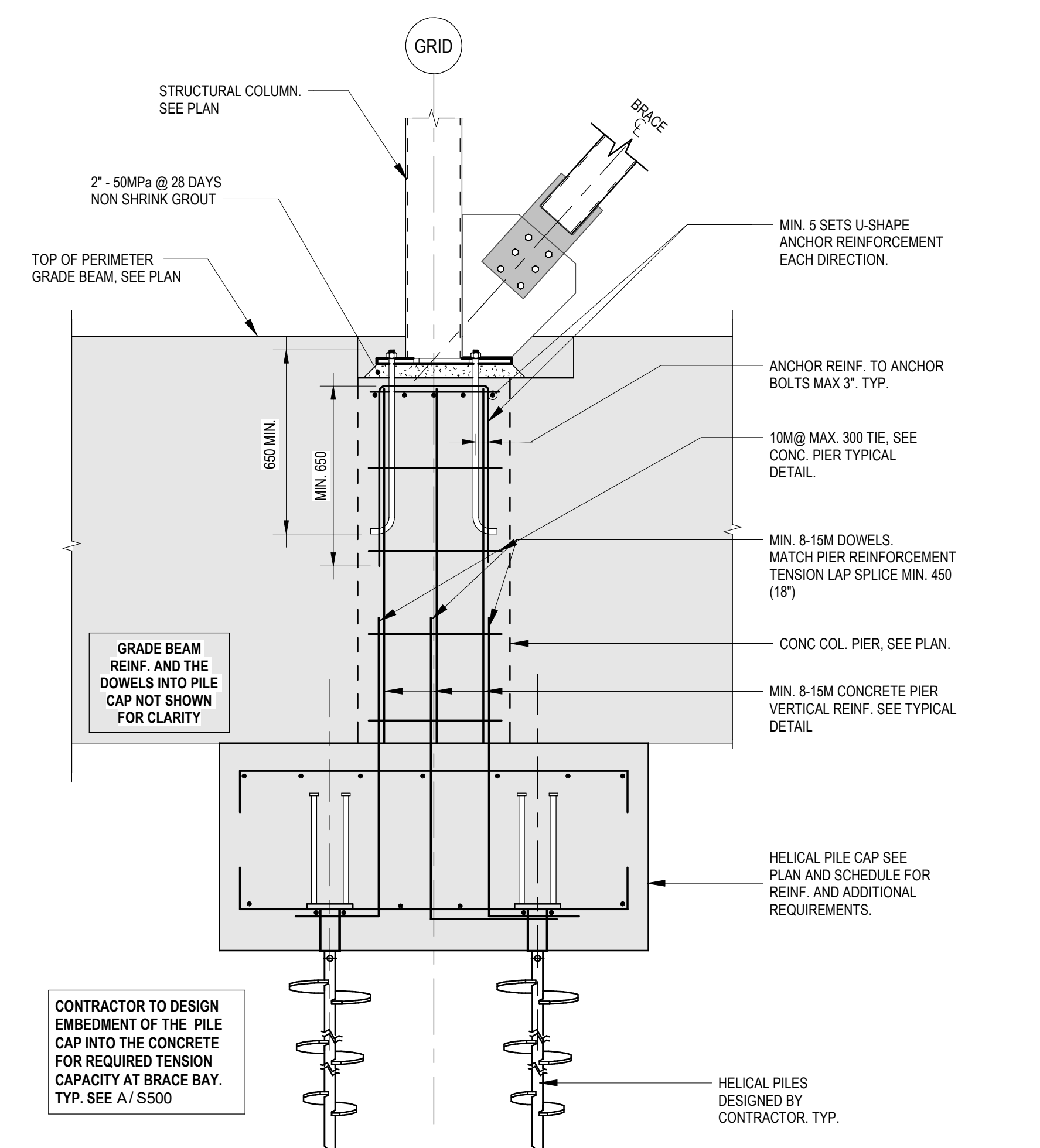
3 SECTION AT GRID 6
1:25



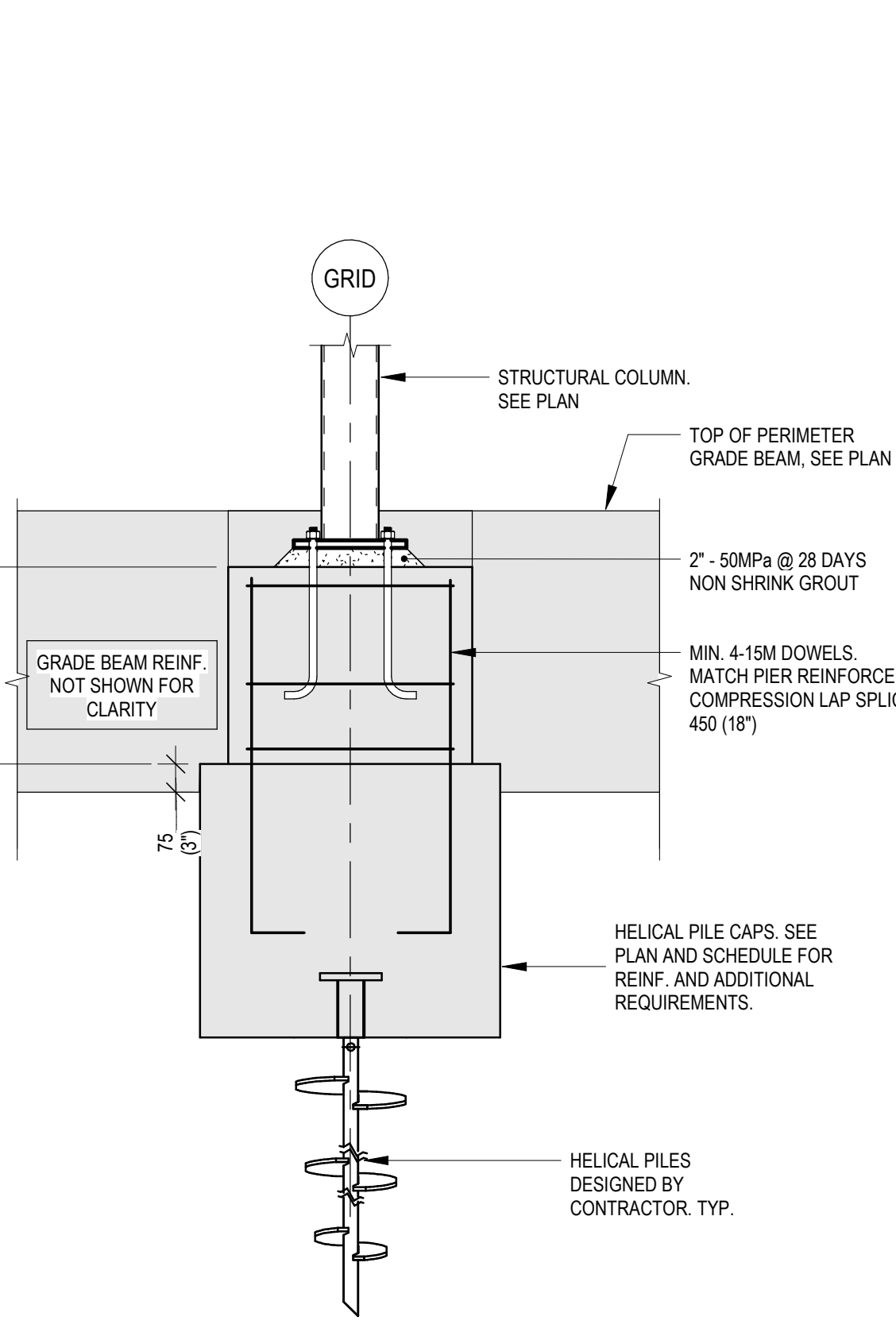
4 TYPICAL GRADE BEAM SECTION AT CURTAIN WALL
1:25



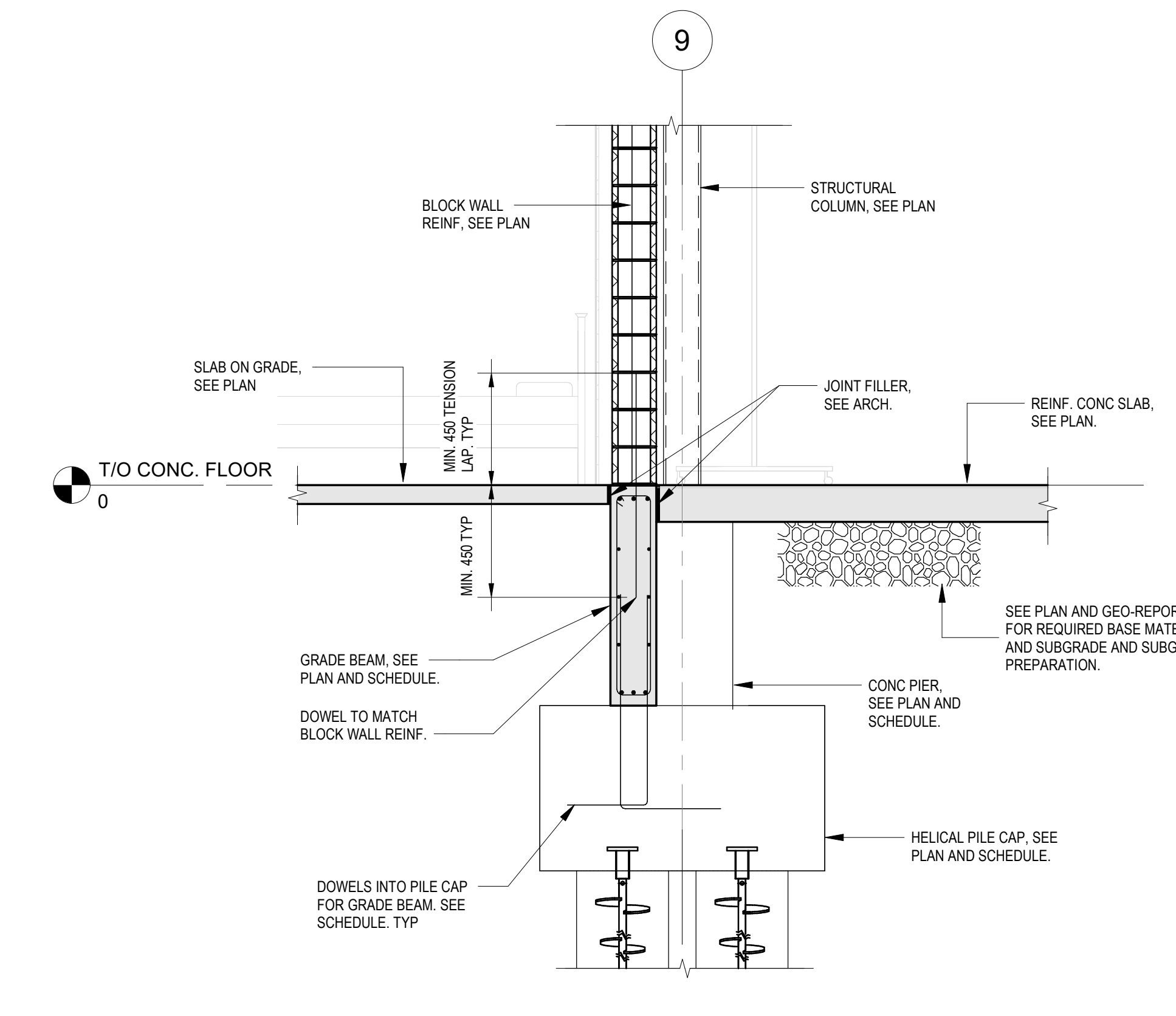
1 TYPICAL APRON LIP SLAB REINFORCEMENT
1:20



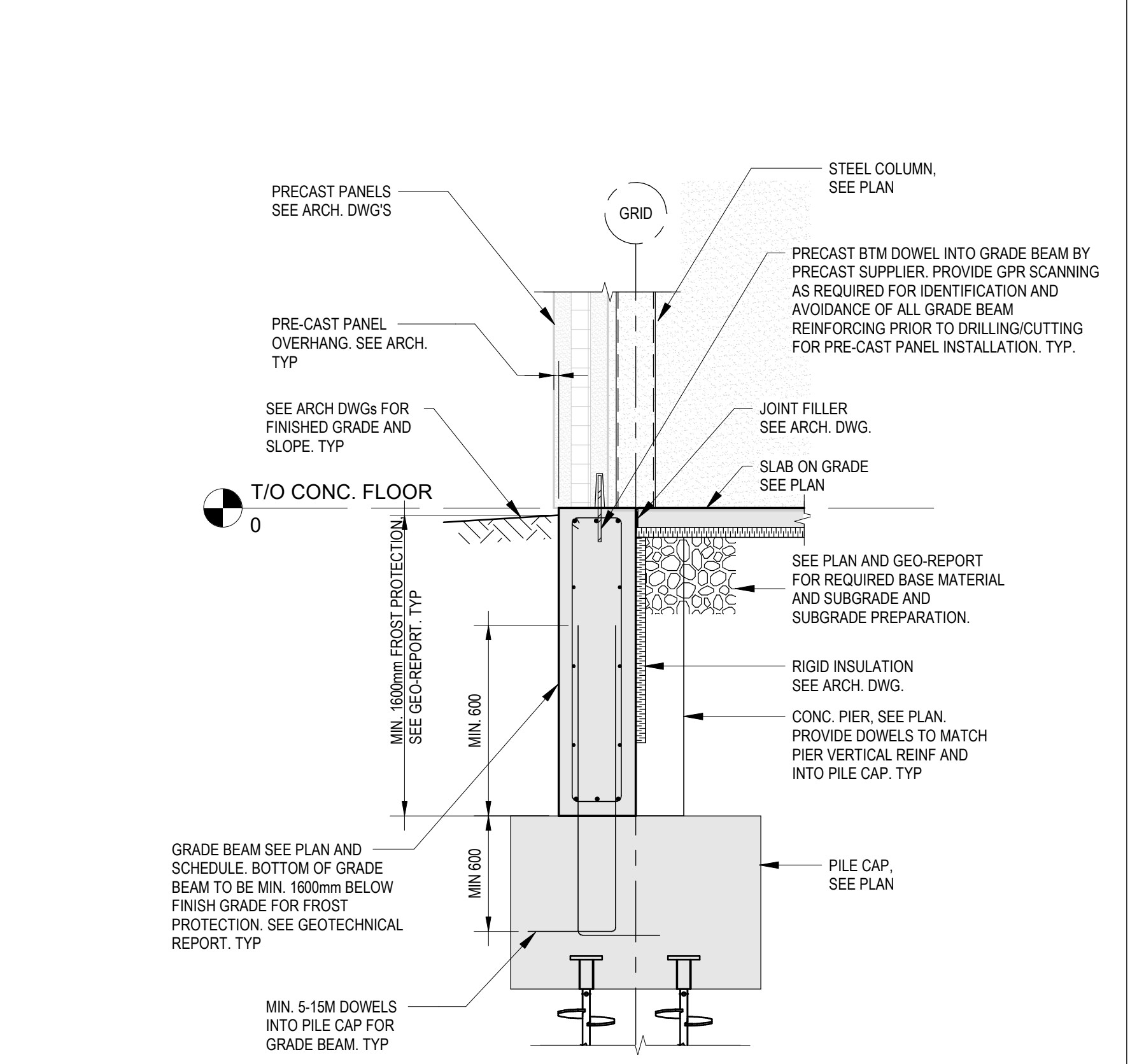
7 TYPICAL FOUNDATION AT BRACE BAY COLUMN (GRID C, G)
N.T.S.



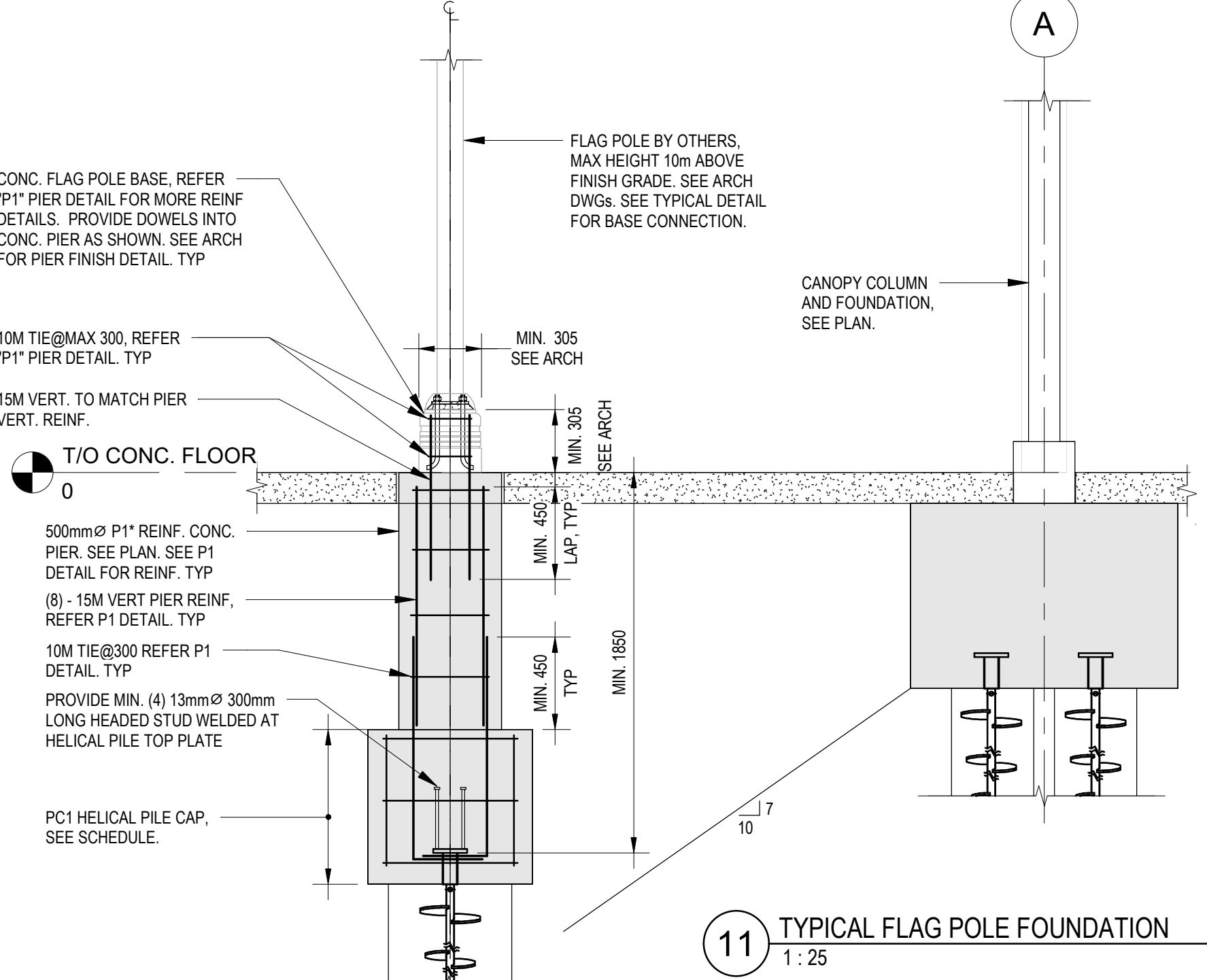
6 TYPICAL COLUMN FOUNDATION AT GRADE BEAM
N.T.S.



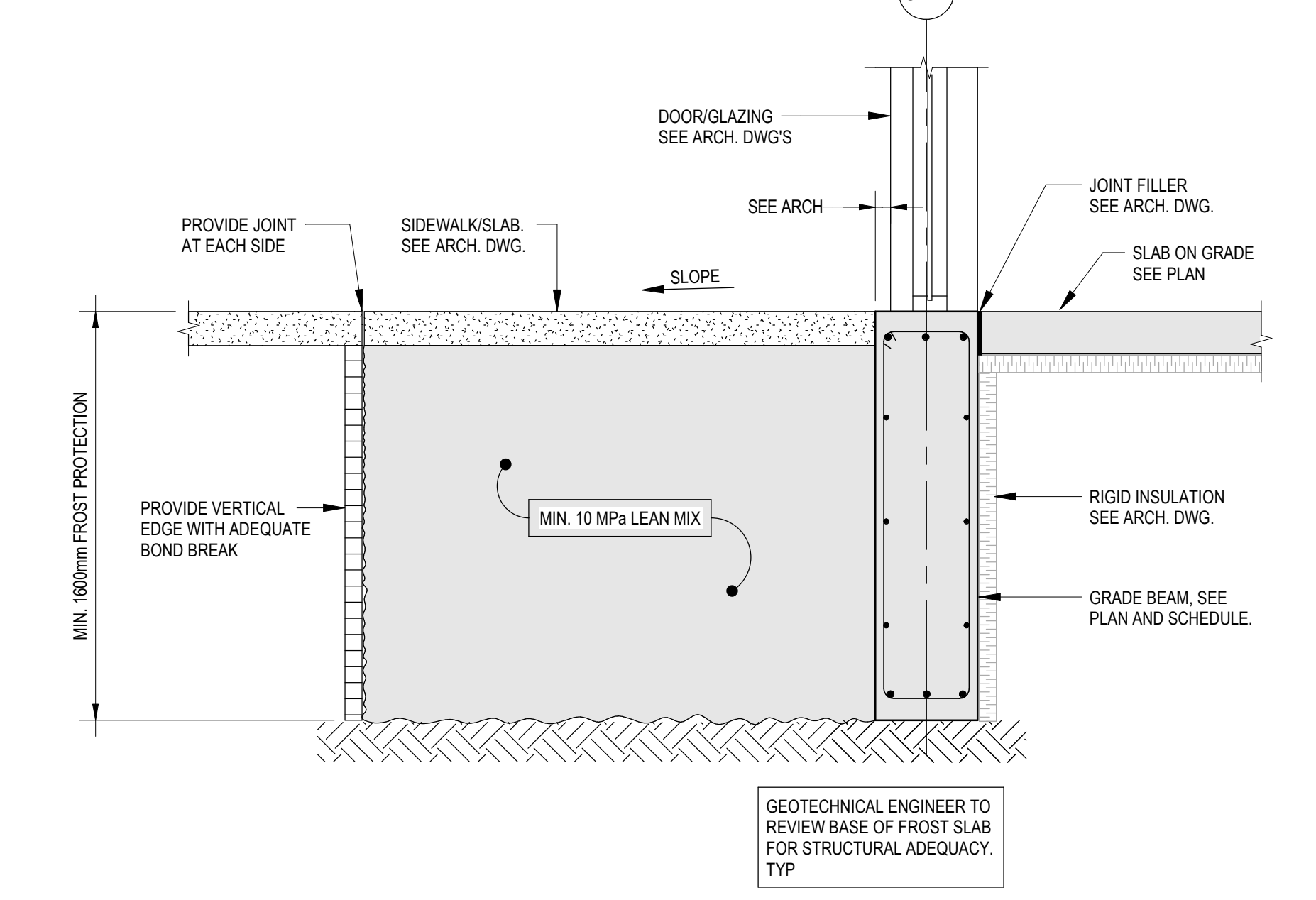
5 SECTION (FOUNDATION) AT GRID E
1:25



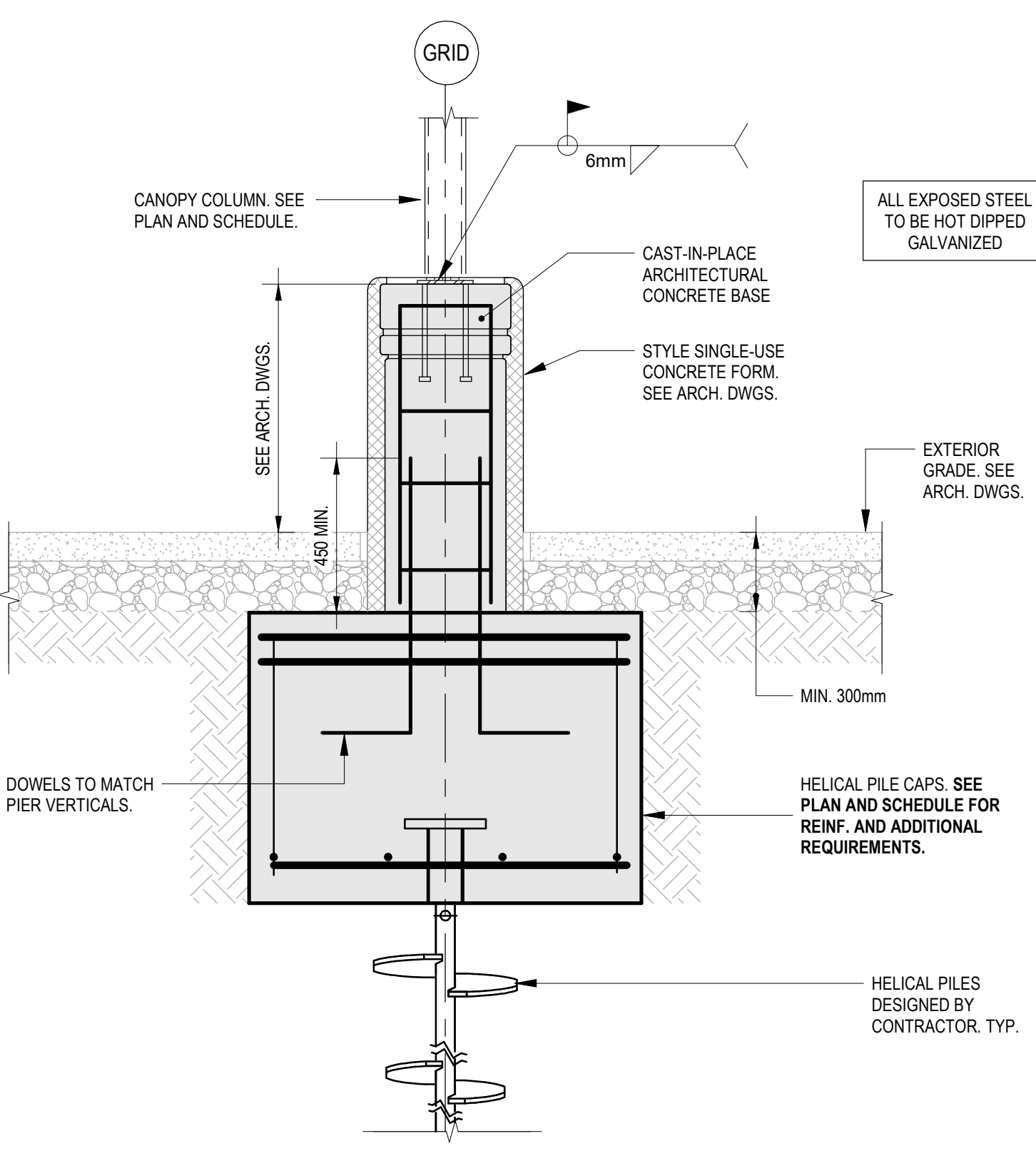
4 TYPICAL PERIMETER GRADE BEAM SECTION (AT PRE-CAST)
1:25



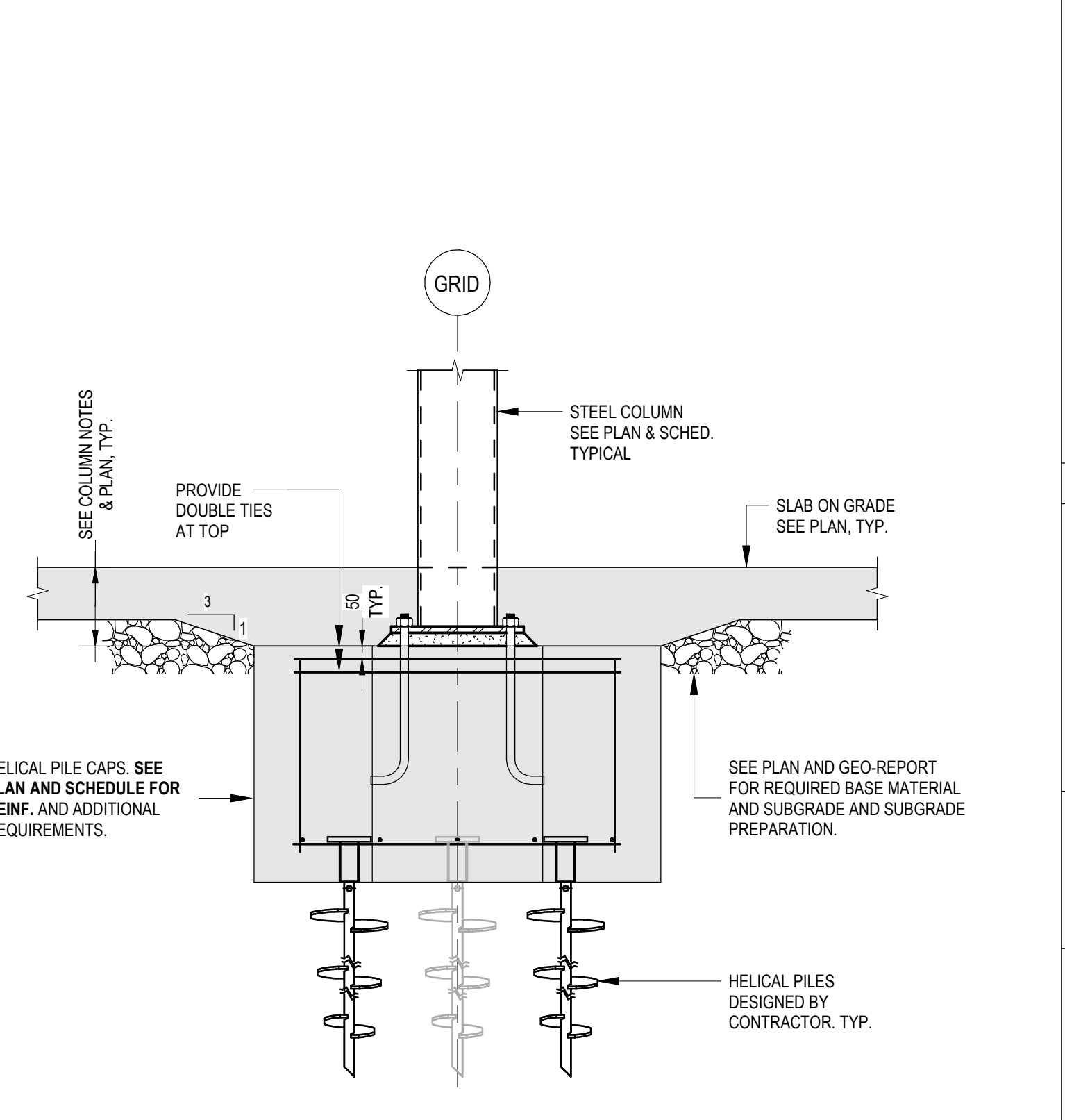
11 TYPICAL FLAG POLE FOUNDATION
1:25



10 TYPICAL LEAN MIX FROST SLAB SECTION
N.T.S.



9 COLUMN BASE WITH ARCH. FEATURE
N.T.S.



8 TYPICAL INTERIOR COLUMN HELICAL FOUNDATION
N.T.S.

CONFIRM ALL GRIDS, DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS. CONTACT GRAVITY ENGINEERING FOR ANY DISCREPANCIES.
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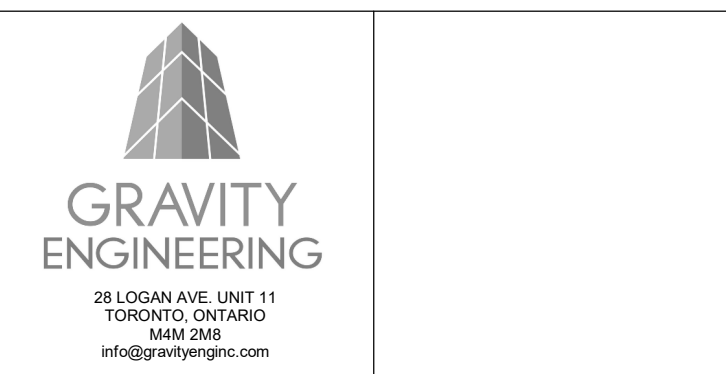
No.	Description	Date
7	ISSUED FOR BUILDING PERMIT	2023-01-07

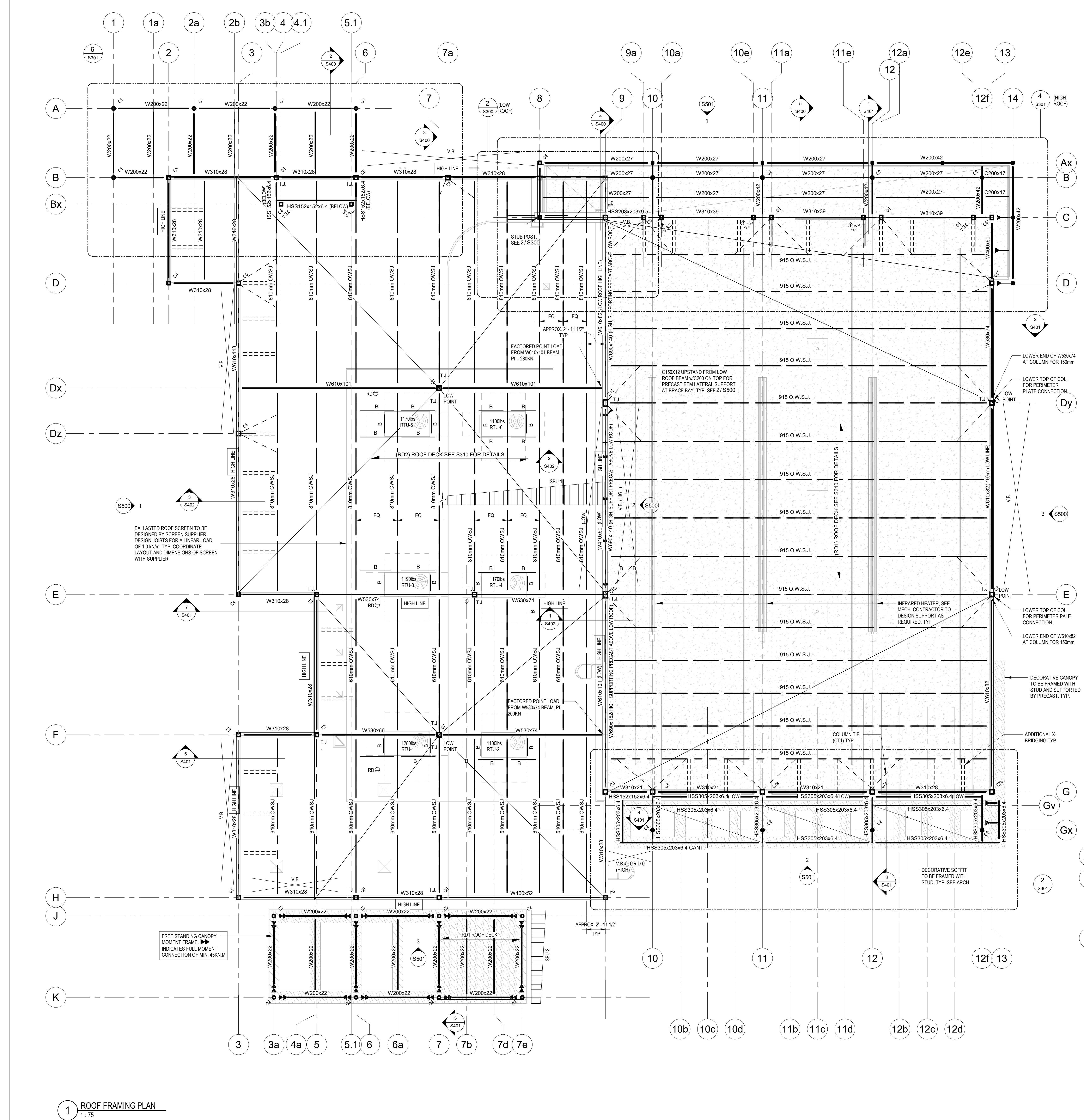
CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO GRAVITY ENGINEERING BEFORE PROCEEDING WITH THE WORK.

Scale As indicated
NEW TECUMSETH FIRE STATION 4

6375 14th LINE, ALLISTON, ONTARIO

FOUNDATION SECTIONS





CONFIRM ALL GRIDS, DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS. CONTACT GRAVITY ENGINEERING FOR ANY DISCREPANCIES.

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ROOF FRAMING NOTES

- 1. US OF STEEL DECK ELEVATION TO BE:
HIGH ROOF: EL. 7700mm HIGH LINE (H.L.)
EL. 7500mm HIGH LINE (H.L.)
EL. 4663mm LOW LINE (L.L.)
- 2. FROM FINISHED FLOOR ELEV. 0.00 UNLESS NOTED OTHERWISE ON PLAN.
- 3. PROVIDE ROOF SLOPE BY ADJUSTING BEAM AND/OR JOIST AND/OR COLUMN ELEVATIONS.
- 4. SLOPE BEAM TO COLUMN CONNECTIONS TO ACHIEVE ROOF SLOPES.
- 5. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION, SIZE, AND NUMBER OF ROOF OPENINGS AND ROOF TOP UNITS.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING UP TO DATE INFORMATION REGARDING THE LOCATION AND SIZE OF ROOF TOP UNITS AND OPENINGS. SPRINKLER LINES AND WATER FILLED PIPES TO BE HUNG FROM TOP CHORD OF JOISTS FOR THE DESIGN OF ROOF JOISTS.
- 7. PROVIDE LINTELS OVER ALL MASONRY WALL OPENINGS FOR LINTELS NOT MARKED ON PLANS. FOLLOW LINTEL SCHEDULE ON THE SCHEDULE DRAWING. SEE ARCH., MECH., AND ELEC. DRAWINGS FOR SIZE AND LOCATION FOR ALL OPENINGS.
- 8. JOIST MANUFACTURER SHALL DESIGN JOISTS FOR THE UPLIFT FORCES AS SPECIFIED IN THE NATIONAL BUILDING CODE OF CANADA, PROVINCIAL CODES, AND LOCAL MUNICIPAL BYLAWS.
- 9. BASIC SPECIFIED DESIGN LOADS FOR ROOF:
10. LIVE LOADS
GREATER EFFECT OF:
SNOW = $1.25 \times (200 \times 1.0) \times 0.4$
SNOW ACCUMULATION AT OBSTRUCTIONS FOR AREAS INDICATED ON PLAN = 2.5 kPa
RAINFALL RETENTION = 1.5 kPa
DEAD LOAD (INCLUDING SELF WEIGHT OF JOISTS) = 1.1 kPa
SUPER IMPOSED DEAD LOAD ON JOISTS DUE TO CONC. PAVERS = 0.7 kN/m (47 lbs/ft)
LOW ROOF FRAMING WAS DESIGNED FOR A UNIFORM SNOW LOAD OF 3.0 kPa SNOW BUILD UP AT HIGH/LOW ROOF STEP.
- 11. ROOF DECK SHALL BE ATTACHED TO SUPPORTING STEEL WITH 20mm ($3/4"$) PUDDLE WELDS SPACED AT MAXIMUM 300mm (12") o.c. REFER TO ROOF DIAPHRAGM DETAILS FOR ADDITIONAL PUDDLE WELDS AND DECK CONNECTIONS.
- 12. PROVIDE LATERAL SUPPORT AT TOP OF MASONRY PARTITION WALLS. SEE TYPICAL DETAILS.
- 13. PROVIDE 1 ROW OF HORIZONTAL BRIDGING AT FIRST BOTTOM CHORD PANEL POINT AT EACH END OF JOIST. PROVIDE ADDITIONAL CROSS BRIDGING AS INDICATED ON PLANS.
- 14. STEEL CONTRACTOR SHALL DESIGN, SUPPLY AND ERECT REMAINDER OF HORIZONTAL JOIST BRIDGING OF SUFFICIENT SIZE AND SPACING IN ACCORDANCE WITH CSA S16.1 LATEST EDITION.

COLUMN NOTES

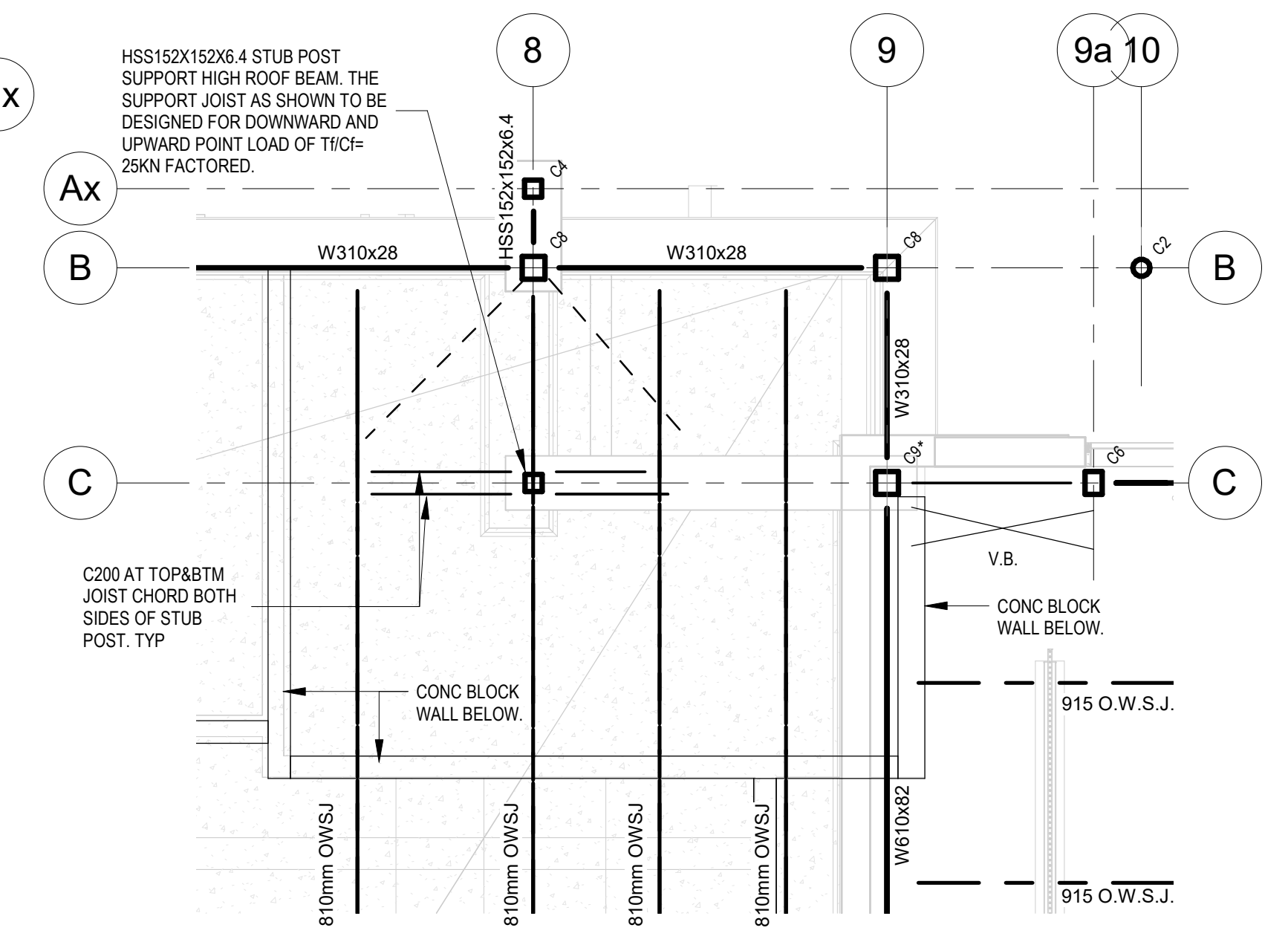
- 1. PROVIDE (4) $1.25"$ (32mm) $\phi \times 32"$ (800mm) LONG ANCHOR BOLTS FOR BASE PLATES WITH COLUMNS AT VERTICAL BRACE LOCATIONS.
- FOR ALL REMAINING BASE PLATES:
PROVIDE (4) $3/4"$ (19mm) $\phi \times 18"$ (460) LONG ANCHOR BOLTS.
MINIMUM EMBEDMENT $20"$ (500mm) AT VERT. BRACE AND $10"$ (250mm) UNLESS NOTED OTHERWISE.
- 2. ANCHOR BOLTS SHALL CONFORM TO MINIMUM ASTM A36 ($F_y = 248 \text{ MPa}$).
- 3. UNDERSIDE OF BASE PLATES SHALL BE:
 $450(18)'$ BELOW TOP OF SLAB FOR ALL INTERIOR COLUMNS (MARKED THIS (RWL) ON PLAN U.N.O. $150(6)'$ BELOW TOP OF SLAB FOR ALL OTHER COLUMNS.
- 4. LONG DIRECTION OF BASE PLATE SHALL BE:
PARALLEL TO JOISTS FOR ALL INTERIOR COLUMNS.
PARALLEL TO EXTERIOR WALLS FOR ALL EXTERIOR COLUMNS.
- 5. ALL COLUMNS SHALL BE CLOSED OFF WITH MINIMUM 13mm ($1/2"$) CAP PLATES.
- 6. PROVIDE MASONRY ANCHORS FOR ALL COLUMNS ABUTTING MASONRY WALLS. SEE TYPICAL STRUCTURAL STEEL NOTES.
- 7. PROVIDE NON-SHRINK GROUT AT US OF COLUMN BASE PLATES. MINIMUM STRENGTH TO BE 50 MPa AT 28 DAYS.

COLUMN SCHEDULE

TYPE MARK	SIZE	BASEPLATE THICKNESS
C1	HSS152x64	1/2" THK
C2	HSS152x80	1/2" THK
C4	HSS152x152x6.4	1/2" THK
C5	HSS178x178x6.4	1" THK
C6	HSS203x152x9.5	1" THK
C7	HSS203x203x8.0	1" THK
C7a	HSS203x203x6.4	1" THK
C8	HSS305x203x5.5	1" THK
C9	HSS203x131	1" THK
C10	HSS305x203x13	1" THK

MEMBER LIST:

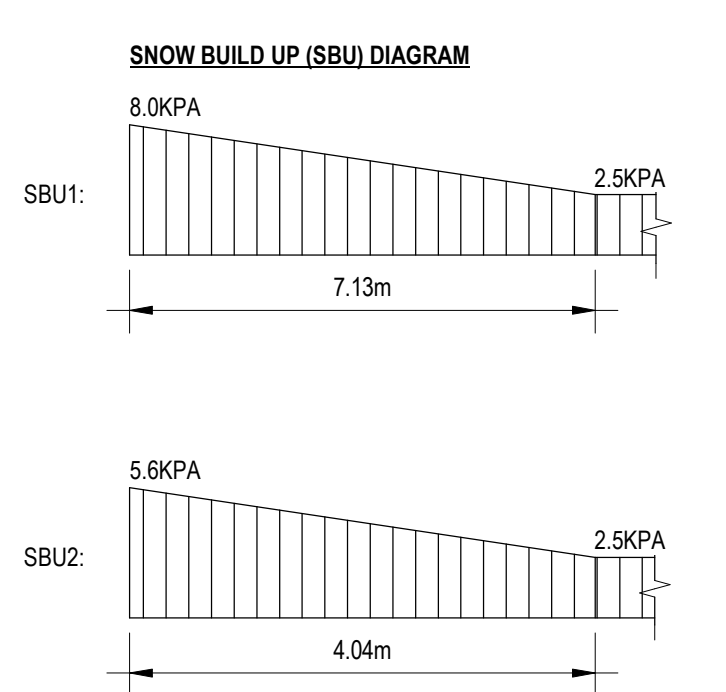
- A: C150x12
- B: C200x17



1 ROOF FRAMING PLAN
1:75

2 ENLARGED LOW ROOF FRAMING PLAN
1:50

No.	Description	Date
7	ISSUED FOR BUILDING PERMIT	2023-07-17



Scale: As indicated

NEW TECUMSETH FIRE STATION 4

6375 14th LINE, ALLISTON, ONTARIO

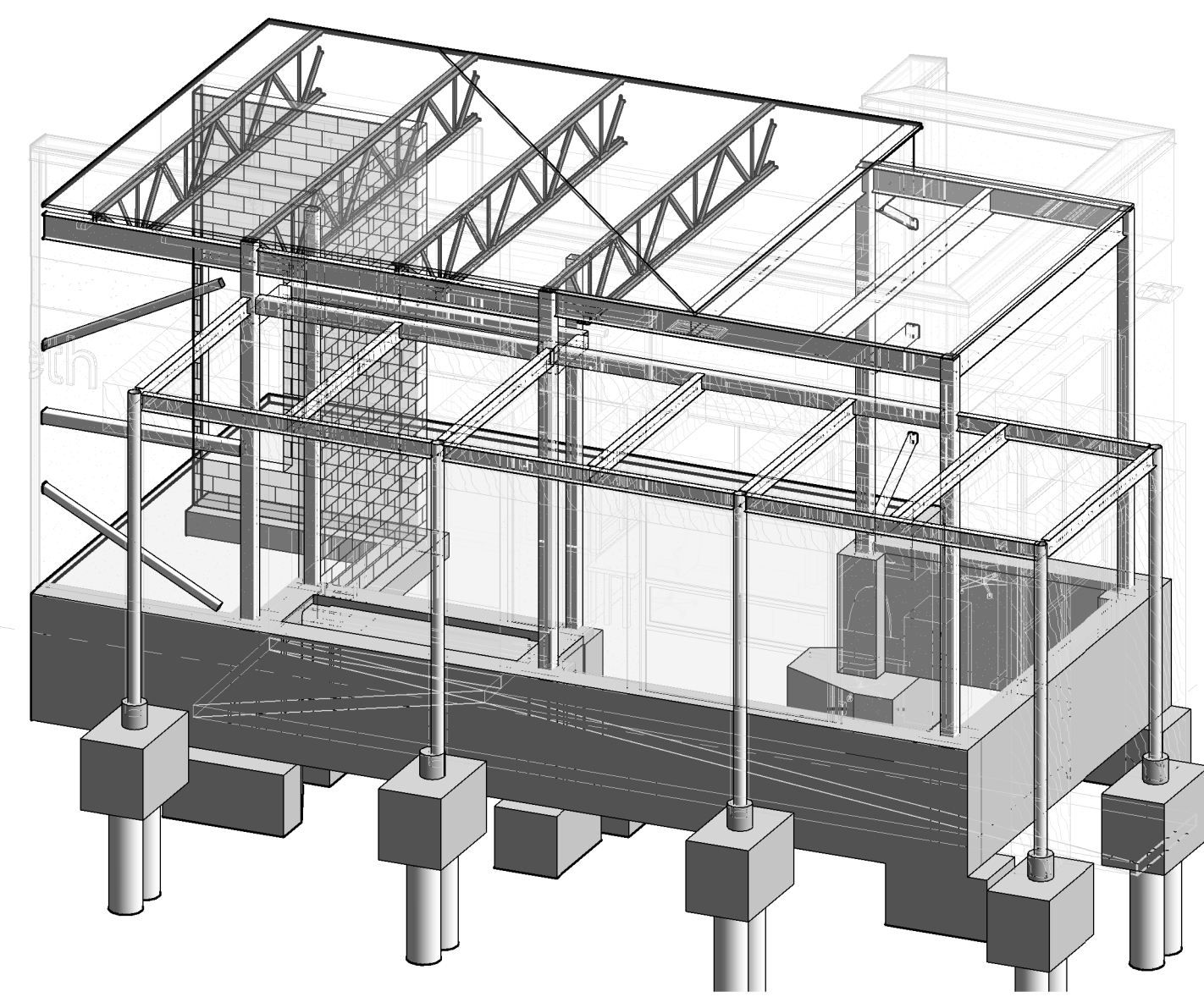
ROOF FRAMING PLAN

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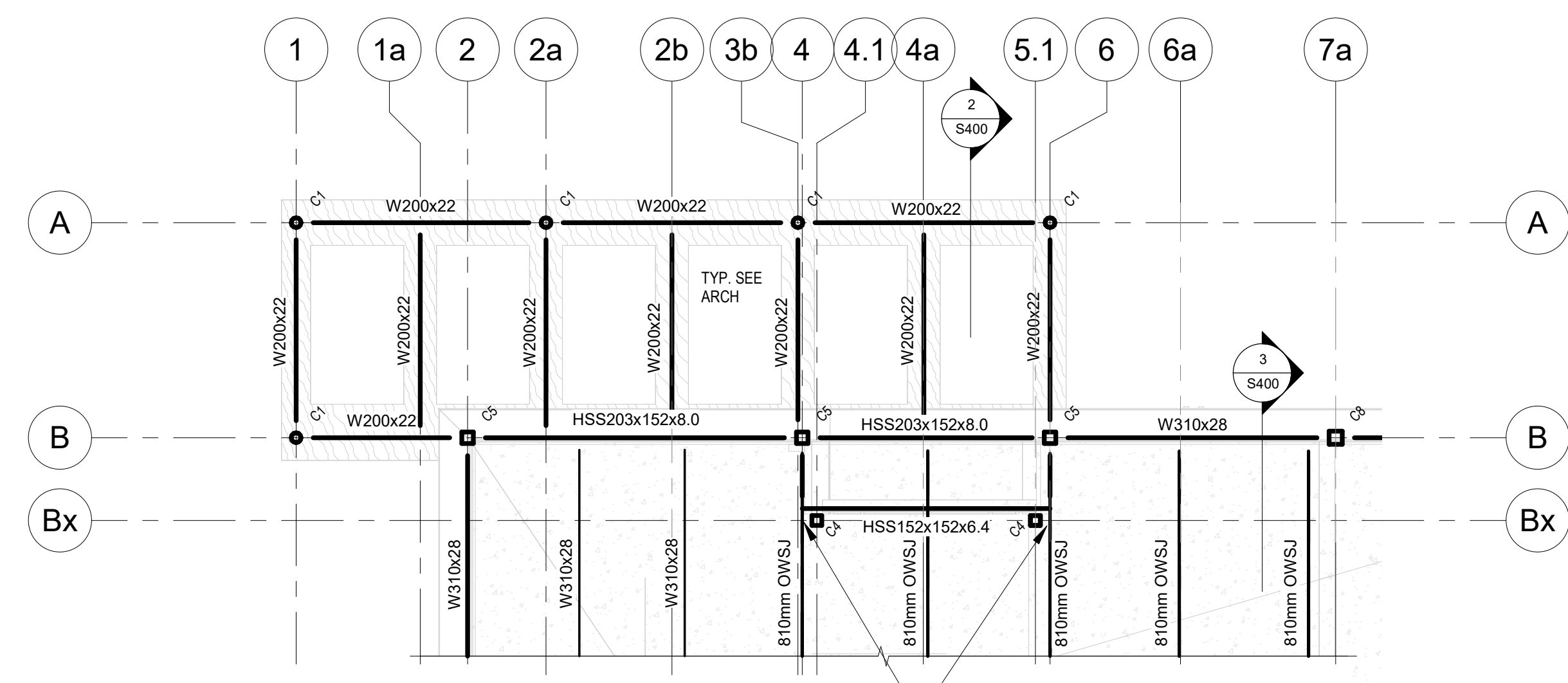
JOB: 2019-095 DRAWING: S300
DATE: 2023-07-13

ALL EXPOSED STEEL AND COMPONENTS MUST BE HOT DIP GALVANIZED. ALL EXPOSED WELDING AND BOLTS/ANCHORS MUST BE PAINTED WITH THE PAINT APPROVED BY THE ARCHITECT.

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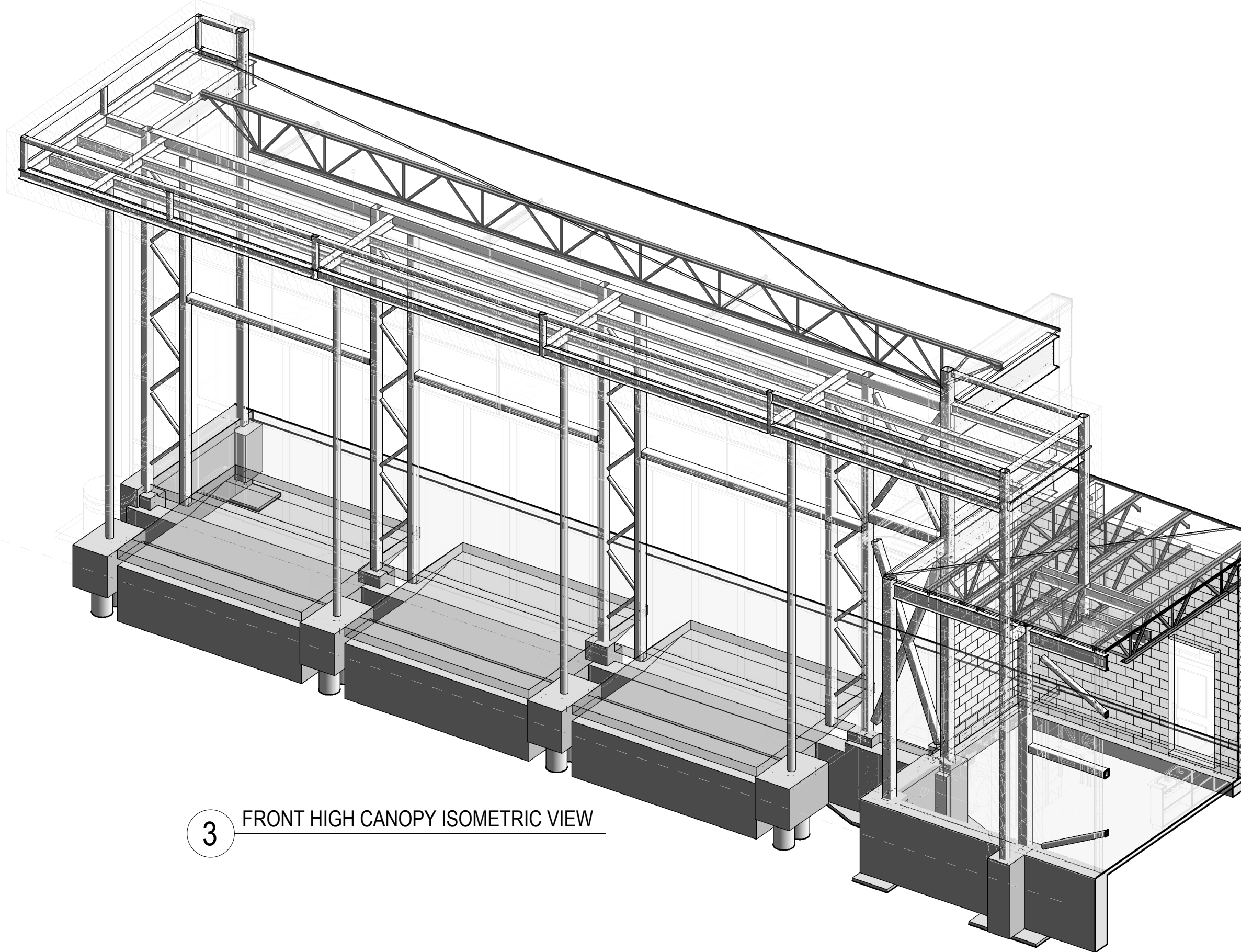


5 FRONT LOW CANOPY ISOMETRIC VIEW

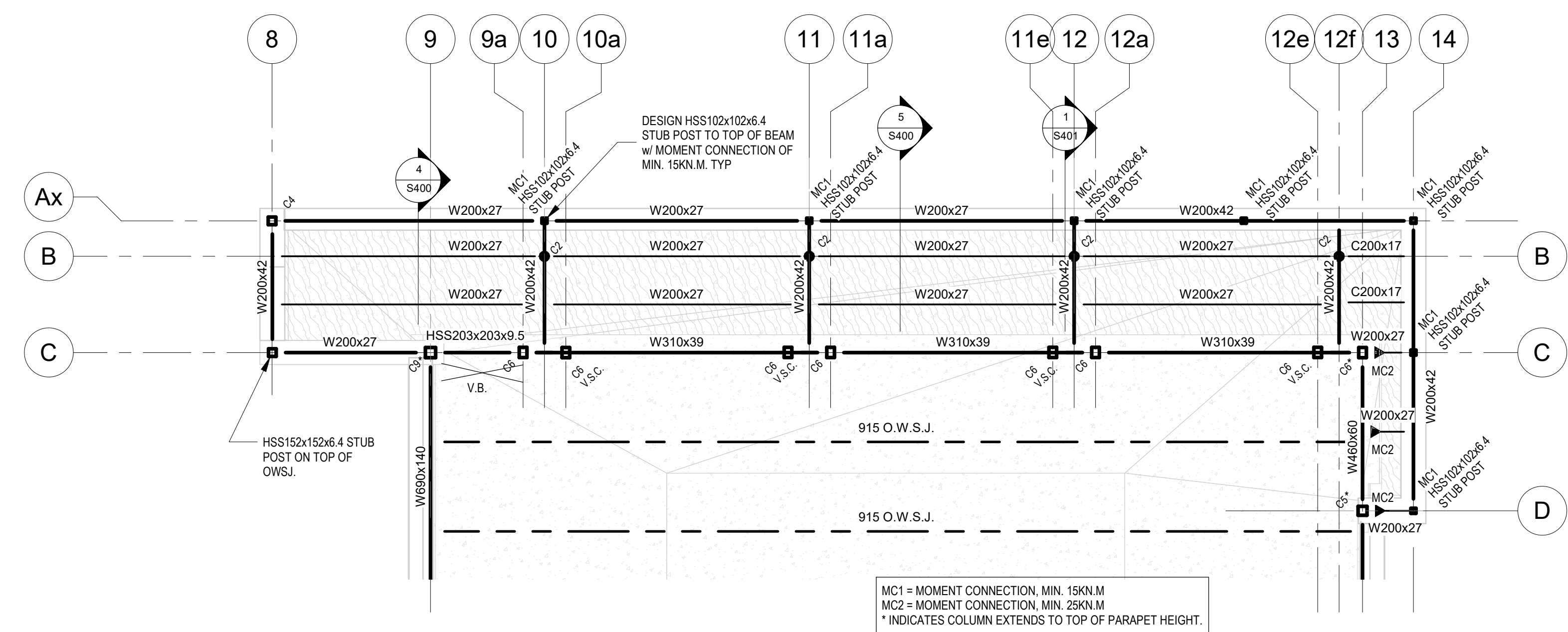


6 FRONT LOW CANOPY FRAMING PLAN
1:75

PROVIDE CLIP ANGLE AT OWSJ TOP&BTM CHORDS FOR POST LATERAL SUPPORT w/ VERTICAL SLOTTED CONNECTION TO ALLOW FOR 25mm DOWNWARD DEFLECTION TYP.

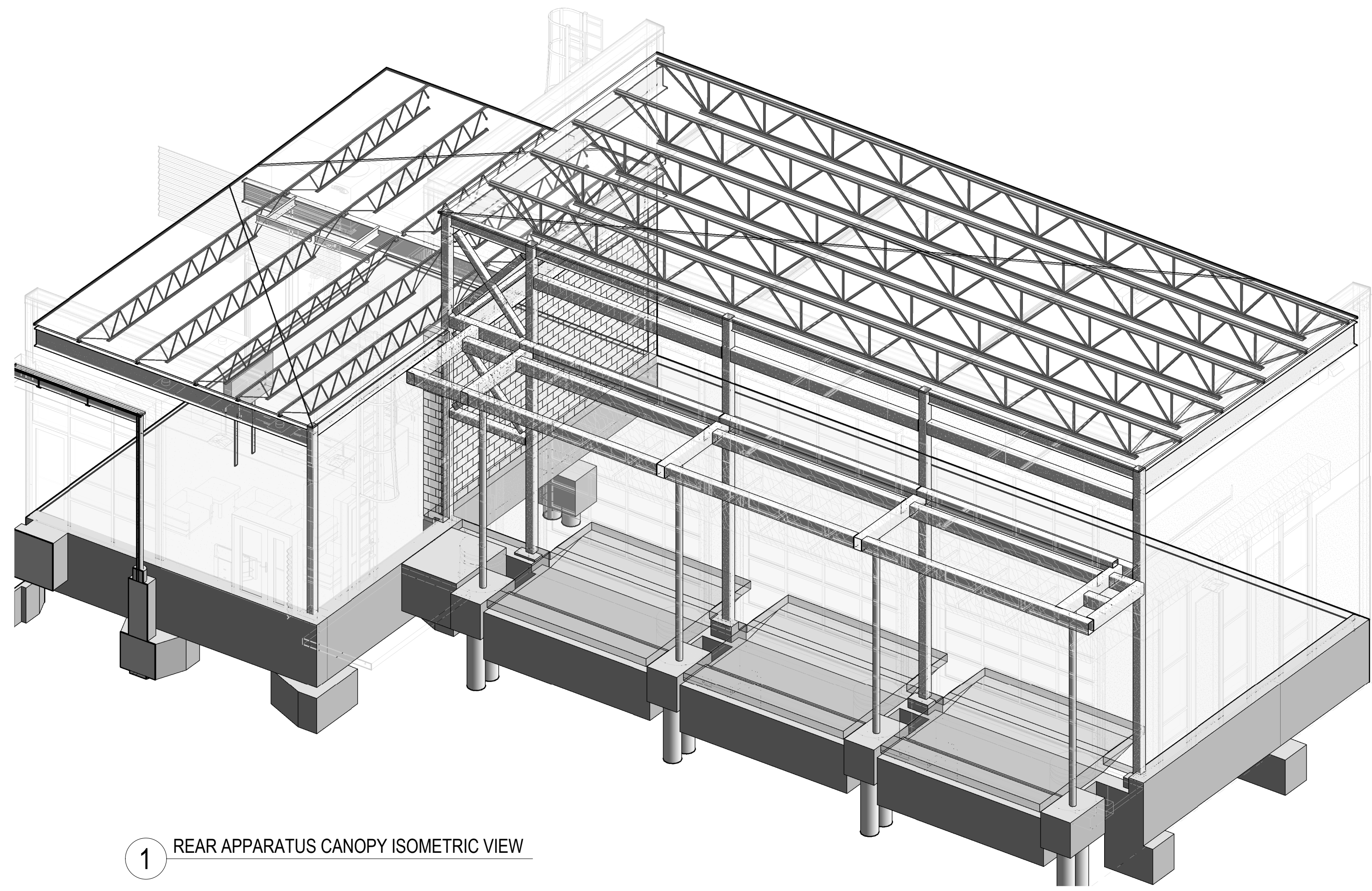


3 FRONT HIGH CANOPY ISOMETRIC VIEW

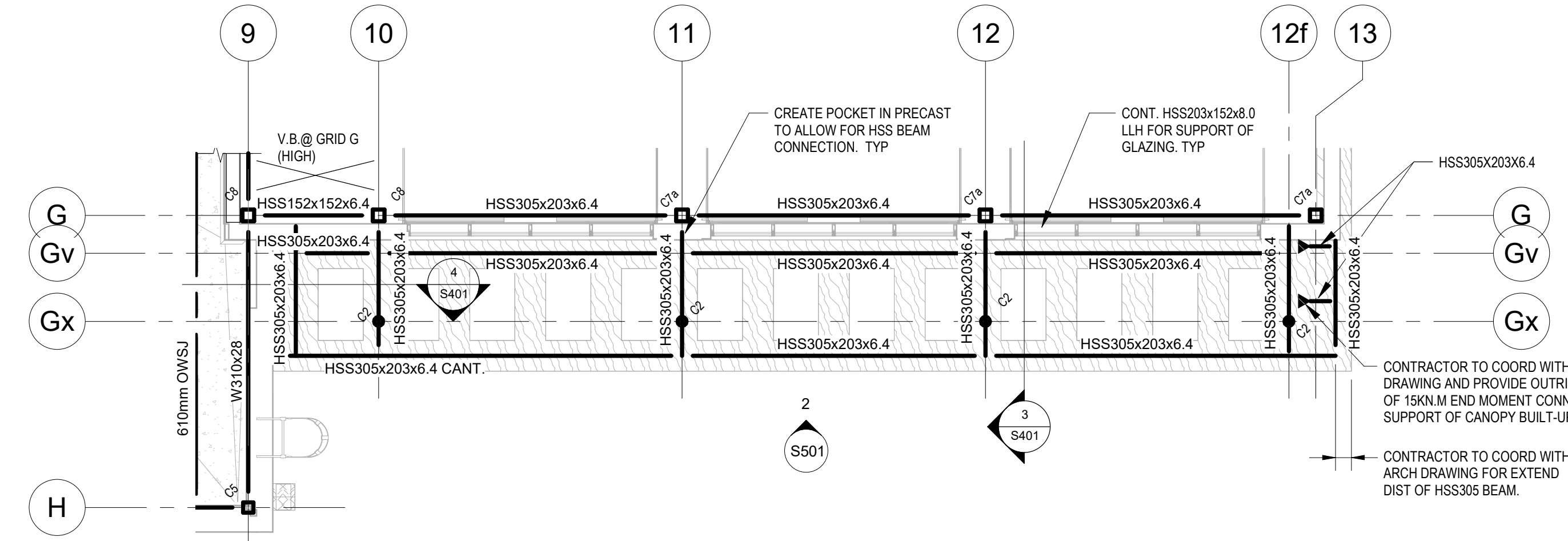


4 FRONT HIGH CANOPY FRAMING PLAN
1:75

MC1 = MOMENT CONNECTION, MIN. 15KN.M
MC2 = MOMENT CONNECTION, MIN. 25KN.M
* INDICATES COLUMN EXTENDS TO TOP OF PARAPET HEIGHT.



1 REAR APPARATUS CANOPY ISOMETRIC VIEW



2 REAR APPARATUS CANOPY FRAMING PLAN
1:75

PRECAST NOTES:
1. PRECAST SUPPLIER IS TO ACCOMMODATE FOR PENETRATION OF STEEL MEMBERS THROUGH PRECAST AT VARIOUS LOCATION. TYP.
2. PRECAST SUPPLIER IS TO PROVIDE VERTICALLY SLOTTED CONNECTIONS BETWEEN THE PRECAST AND STEEL FRAME TO ALLOW FOR 50MM LL DEFLECTION OF BEAM AT MID SPAN. (TYP. FOR FULL HEIGHT PANEL)
3. PRECAST SUPPLIER IS TO DESIGN AND PROVIDE PRECAST CONNECTION TO GRADE BEAM CONNECTION FOR SUPPORT. U.N.O
4. PRECAST SUPPLIER IS TO DESIGN PRECAST TO STEEL BEAM CONNECTION WHERE THE PRECAST TO BE HUNG FROM THE STEEL BEAM AS NOTED ON THE DRAWINGS, AND TO COORDINATE WITH STEEL CONTRACTOR FOR FABRICATE AND INSTALLATION OF THE CONNECTION COMPONENTS.

7	ISSUED FOR BUILDING PERMIT	2023-01-07
No.	Description	Date

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO GRAVITY ENGINEERING BEFORE PROCEEDING WITH THE WORK.
PROVIDED ISOMETRIC VIEWS ARE INTENDED TO PROVIDE A GRAPHICAL OVERVIEW OF THE STRUCTURAL CONCEPT. DO NOT USE FOR PRICING OR DEVELOPMENT OF SHOP DRAWINGS AND DETAILS. REFER TO THE FULL DRAWINGS PACKAGE FOR ALL RELEVANT INFORMATION.

Scale 1:75

NEW TECUMSETH FIRE STATION 4

6375 14th LINE, ALLISTON, ONTARIO

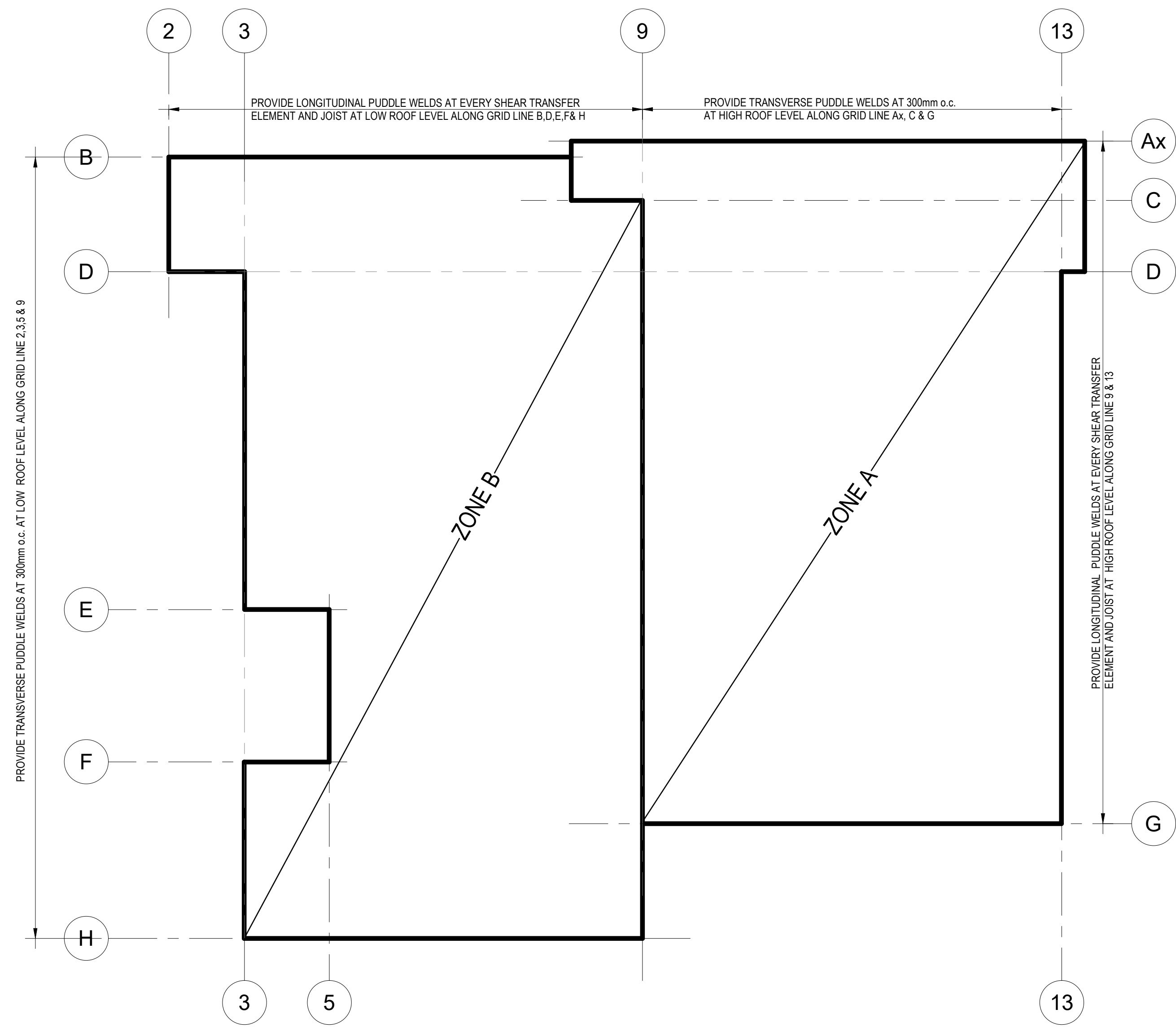
CANOPY ROOF FRAMING PLAN AND ISOMETRIC VIEW

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M4M 2B8
info@gravityeng.com

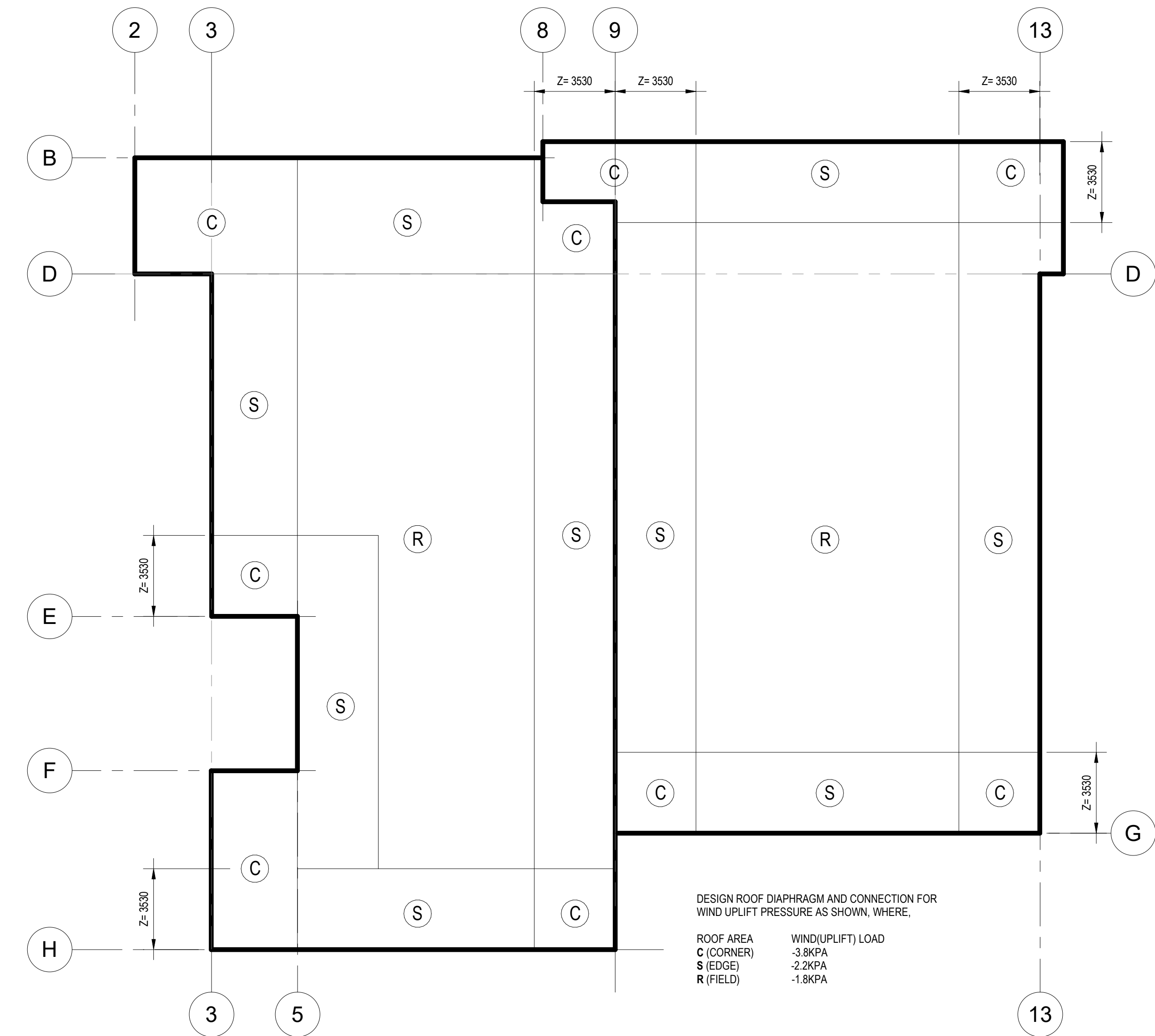
JOB: 2019-095
DATE: 2023-07-13
DRAWING: S301

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1 ROOF DIAPHRAGM PLAN
1:150



2 ROOF WIND UPLIFT PLAN
1:150

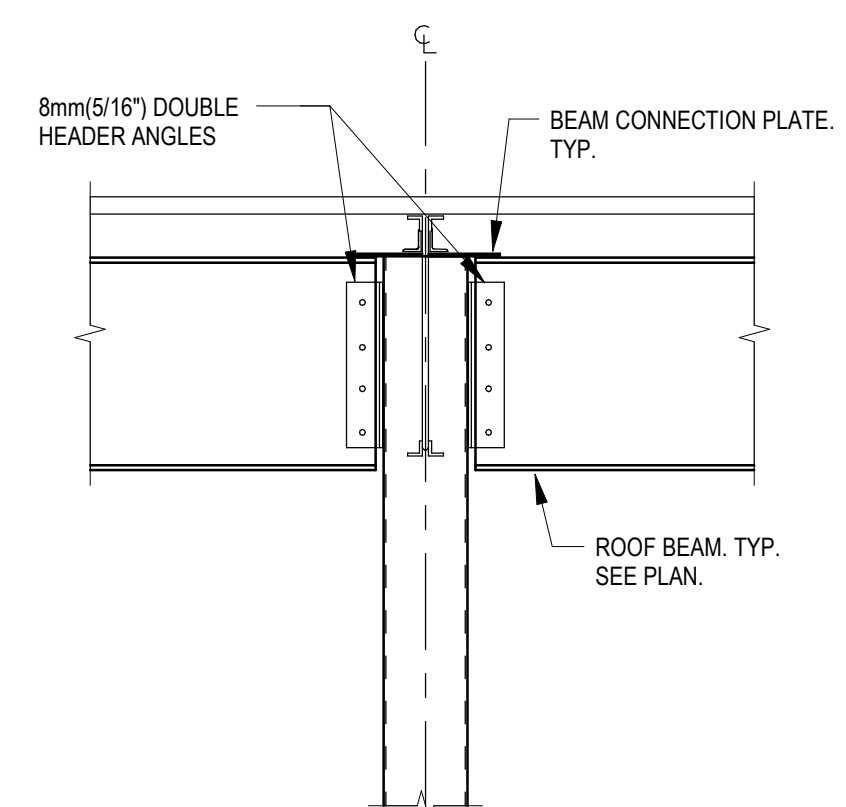
ROOF DIAPHRAGM ZONES:

ZONE	ROOF DECK	TRANSVERSE PUDDLE WELDS	BUTTON PUNCH SPACING
A	RD1	367	300(12")
B	RD2	369	300(12")

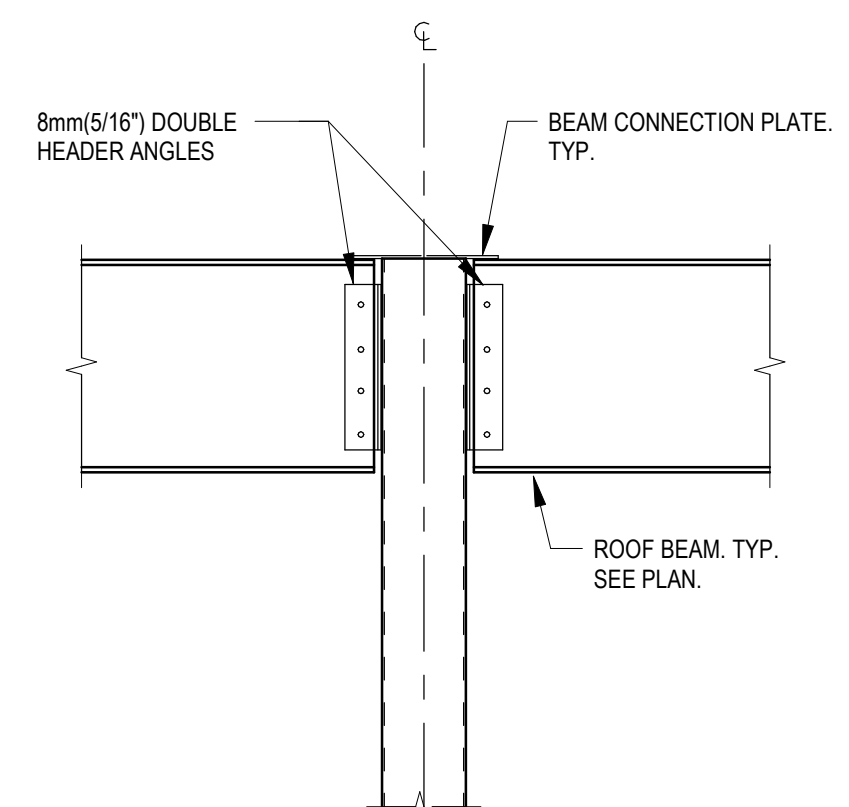
ROOF DECK NOTES:
1. STEEL DECK SHALL CONFORM TO CANAM P-3615 OR APPROVED EQUIVALENT

RD1: 38mm (1 1/2") DEEP, CONTINUOUS OVER 3 SPANS MINIMUM. THICKNESS TO BE MIN. 0.76mm (22 Ga)

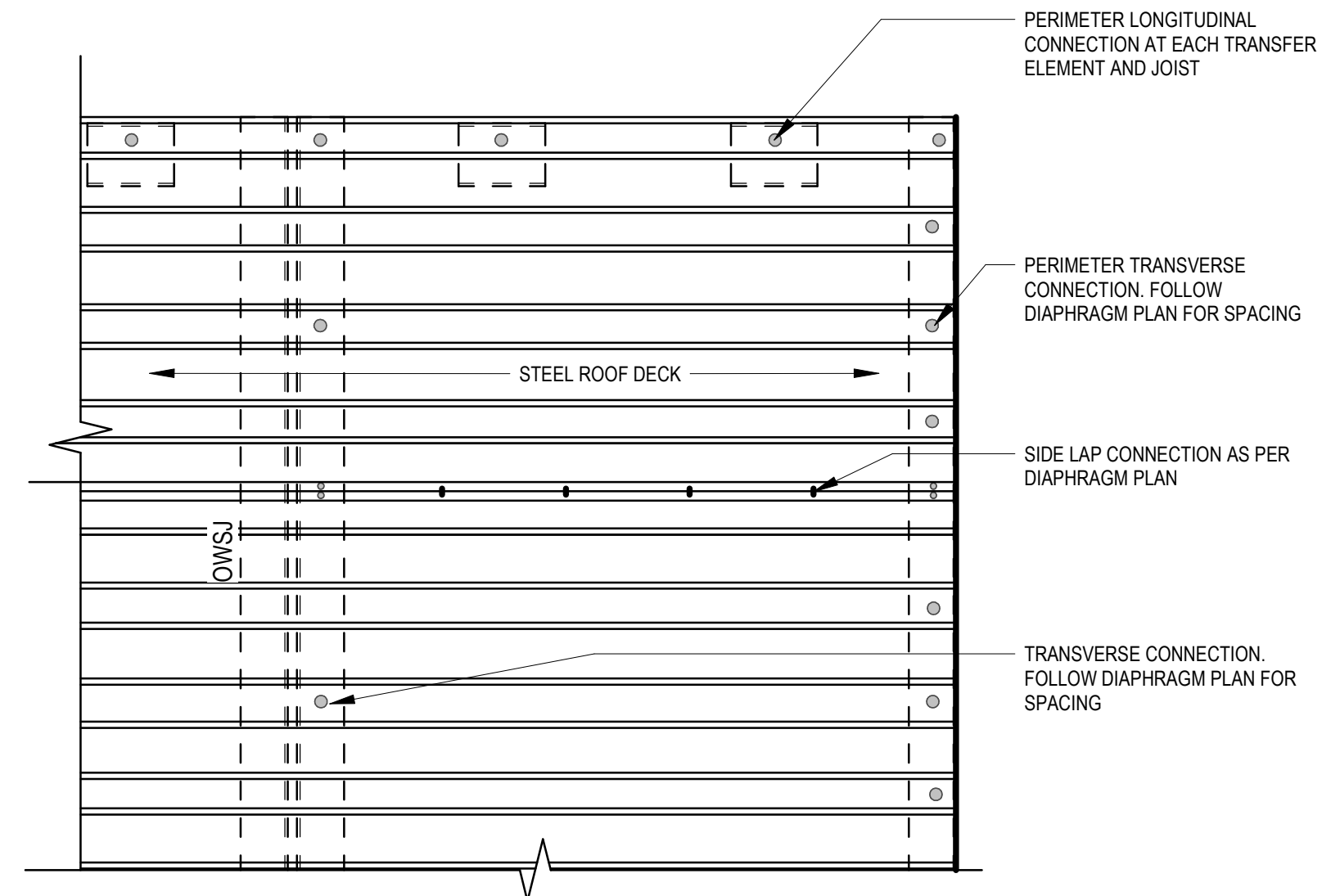
RD2: 38mm (1 1/2") DEEP, CONTINUOUS OVER 3 SPANS MINIMUM. THICKNESS TO BE MIN. 1.27mm (18Ga)



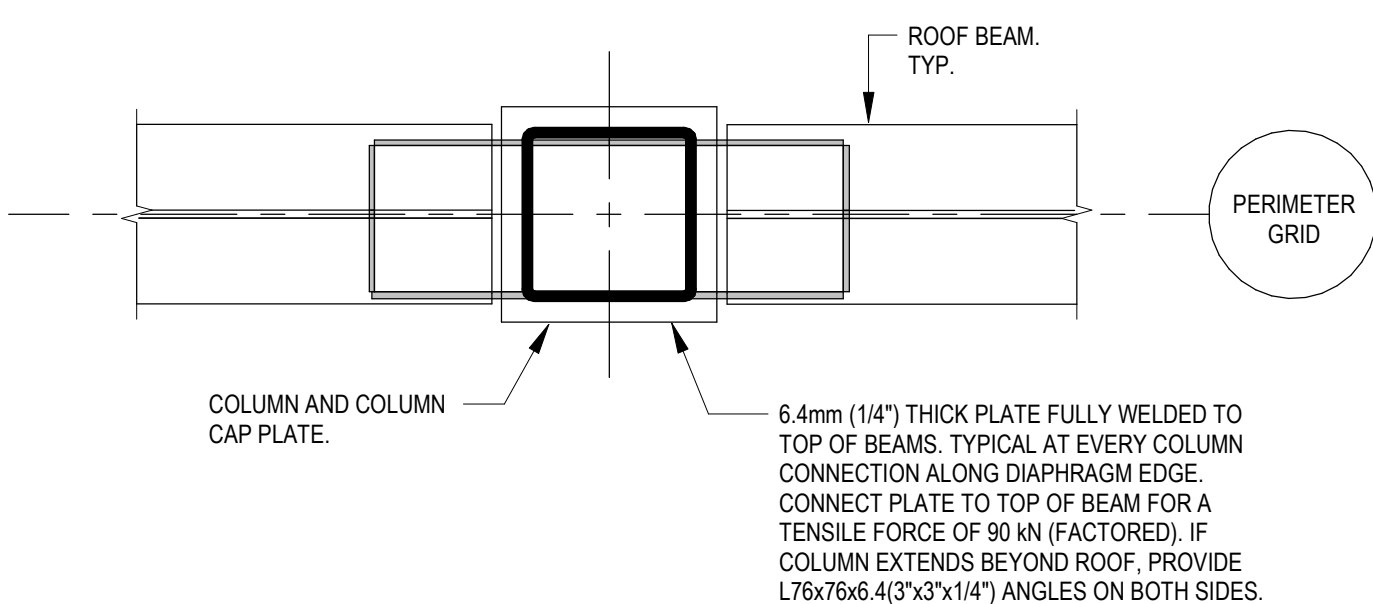
6 COLUMN CONNECTION 1
N.T.S.



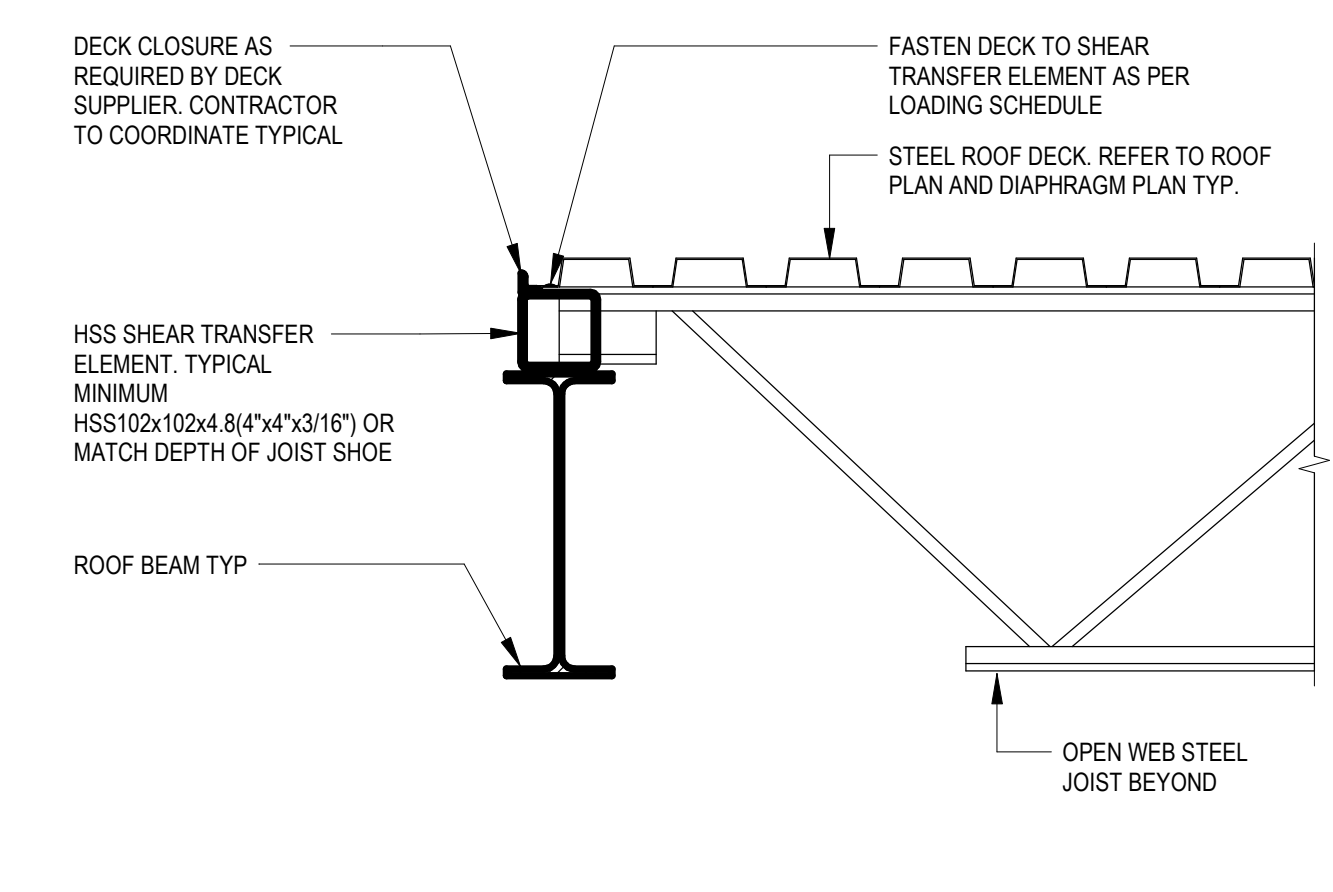
7 COLUMN CONNECTION 2
N.T.S.



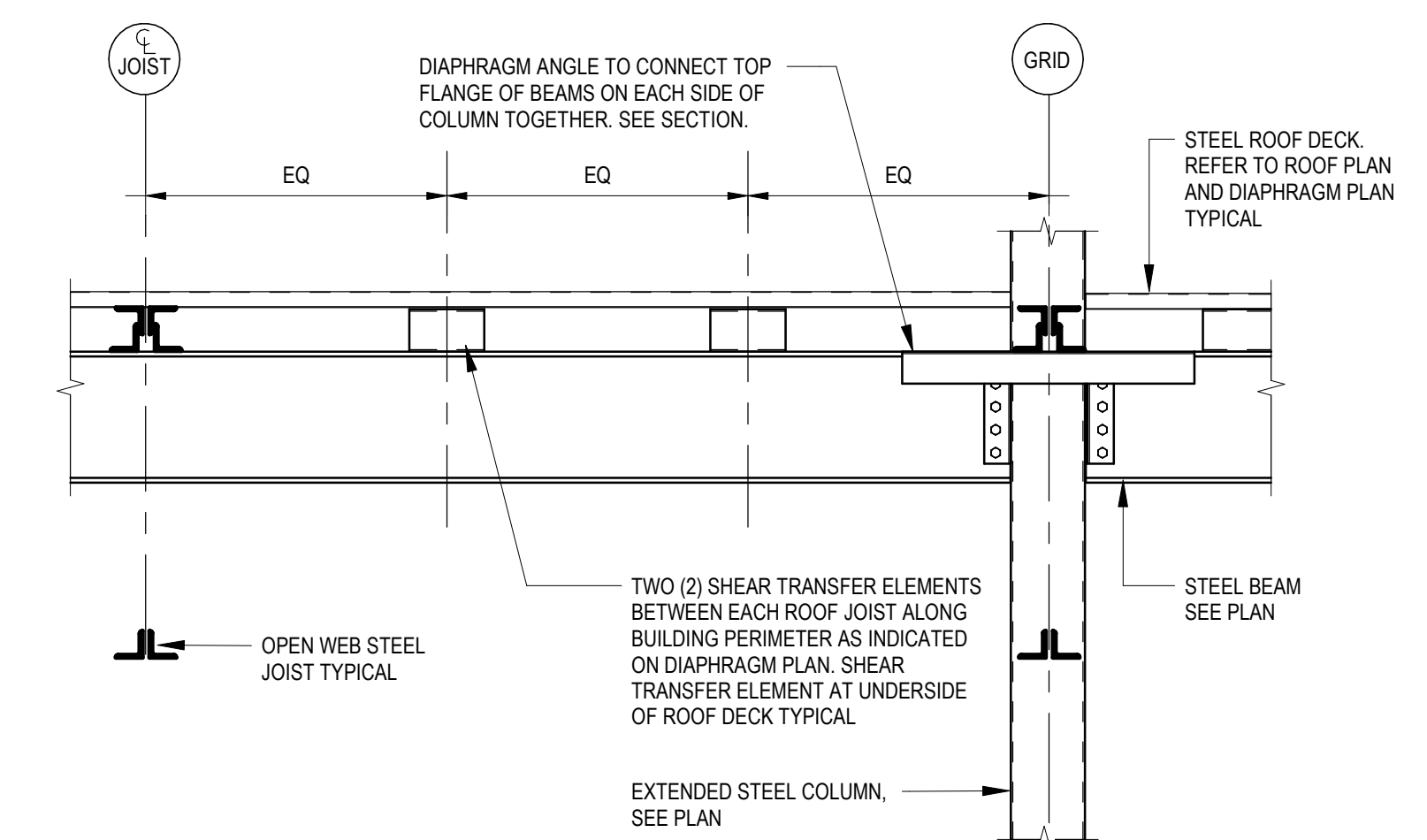
8 ENLARGED DIAPHRAGM DETAIL
N.T.S.



5 PERIMETER PLATE CONNECTION
N.T.S.



4 SHEAR TRANSFER ELEMENTS
N.T.S.



3 DIAPHRAGM DETAIL
N.T.S.

No.	Description	Date
7	ISSUED FOR BUILDING PERMIT	2023-01-07

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO GRAVITY ENGINEERING BEFORE PROCEEDING WITH THE WORK.

Scale: As indicated

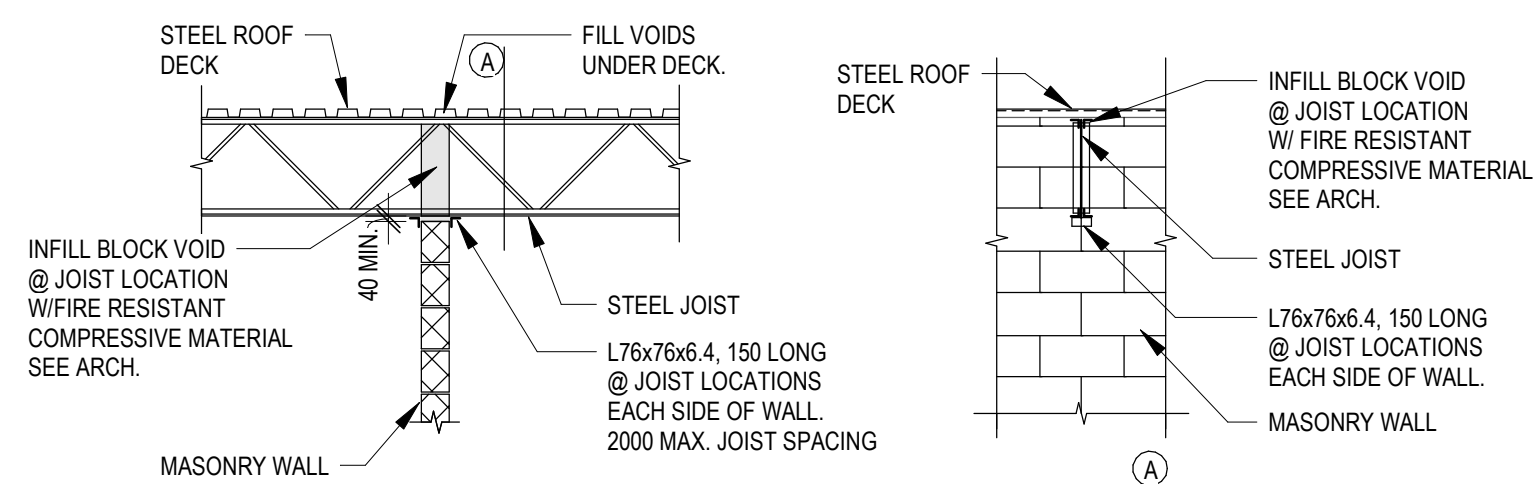
NEW TECUMSETH FIRE STATION 4

6375 14th LINE, ALLISTON, ONTARIO

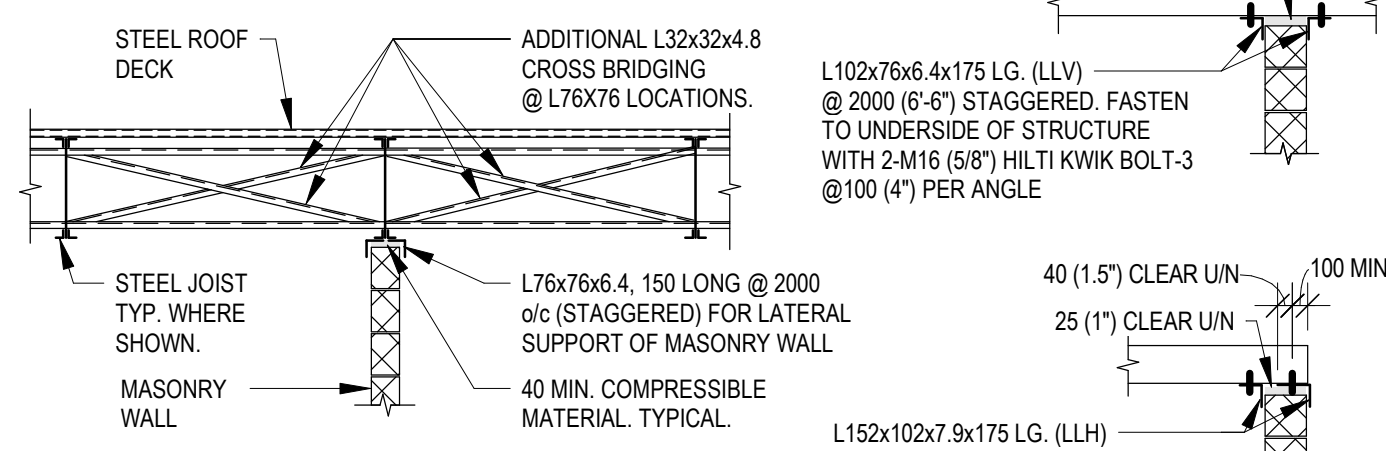
ROOF DIAPHRAGM DETAILS

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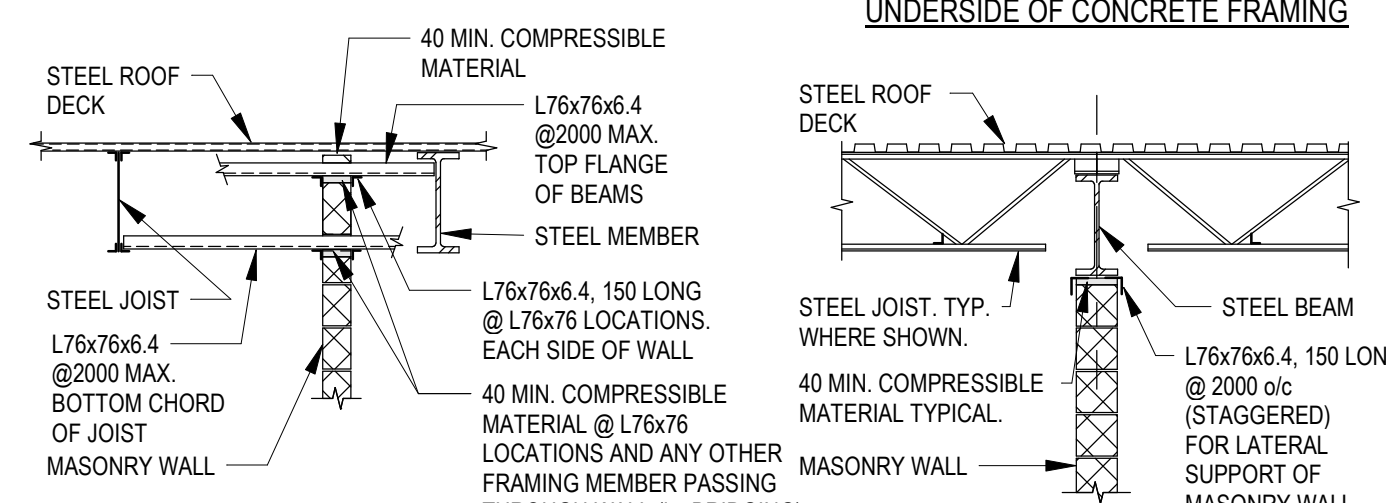
JOB	2019-095	DRAWING	S310
DATE	2023-07-13		



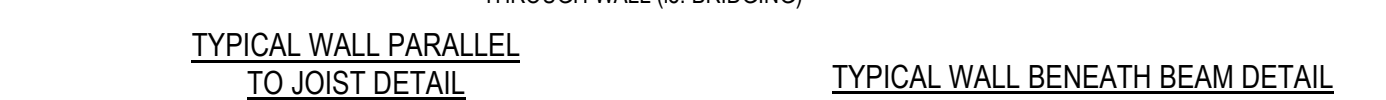
MASONRY WALL PERPENDICULAR TO JOIST



TYPICAL WALL BENEATH JOIST DETAIL



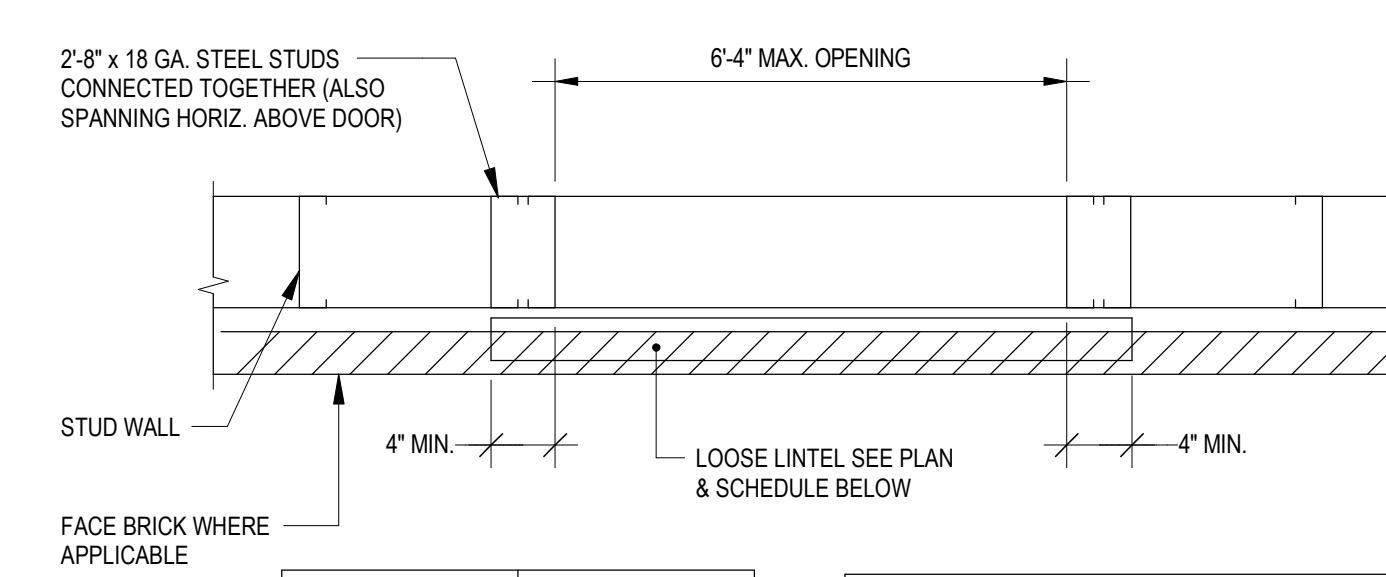
UNDERSIDE OF CONCRETE FRAMING



TYPICAL WALL PARALLEL TO JOIST DETAIL

TYPICAL WALL BENEATH BEAM DETAIL

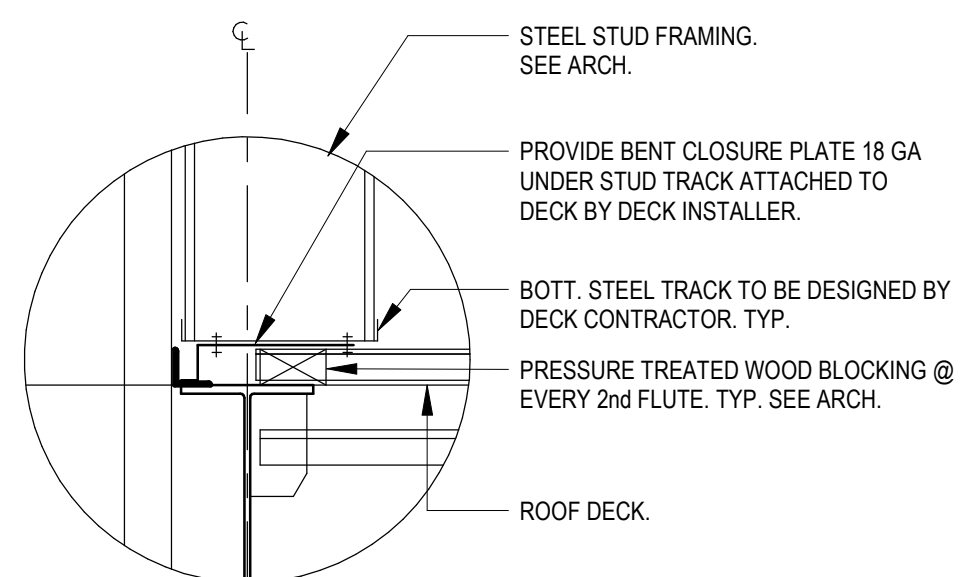
13 M-02 - LATERAL SUPPORT AT NON-LOAD BEARING MASONRY PARTITION WALLS
N.T.S.



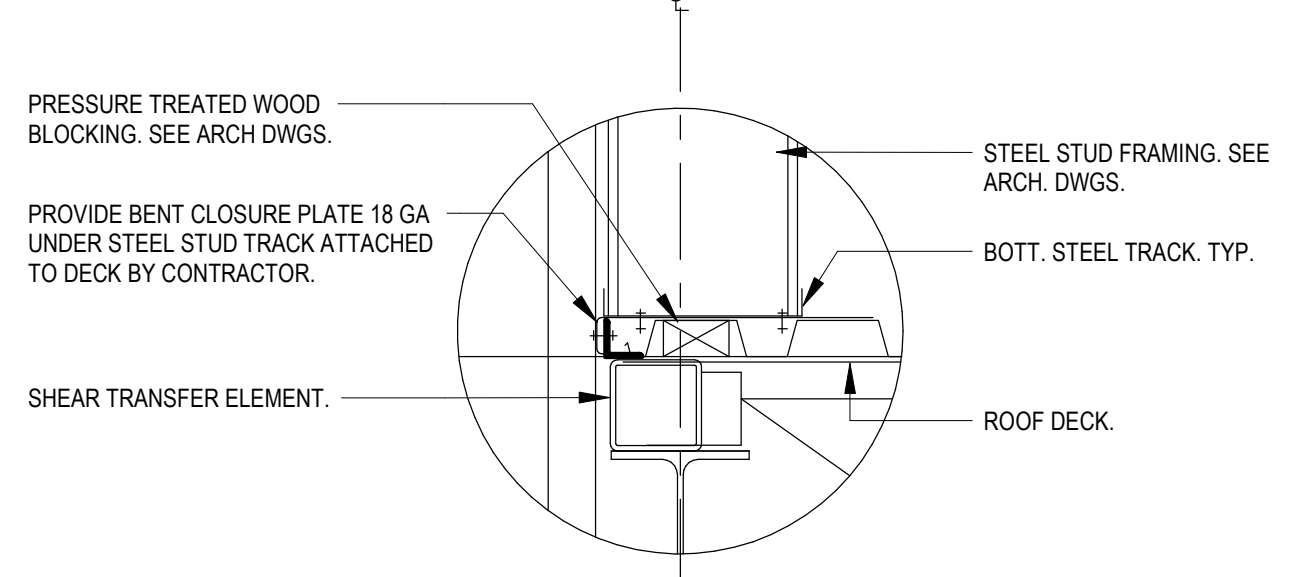
11 LOOSE LINTEL DETAIL
N.T.S.

OPENING SIZE	LINTEL
UP TO 4'-0"	L150x90x6
FROM 4'-0" TO 6'-4"	L125x90x8LLV
FROM 6'-4" TO 7'-4"	L152x97x9LLV

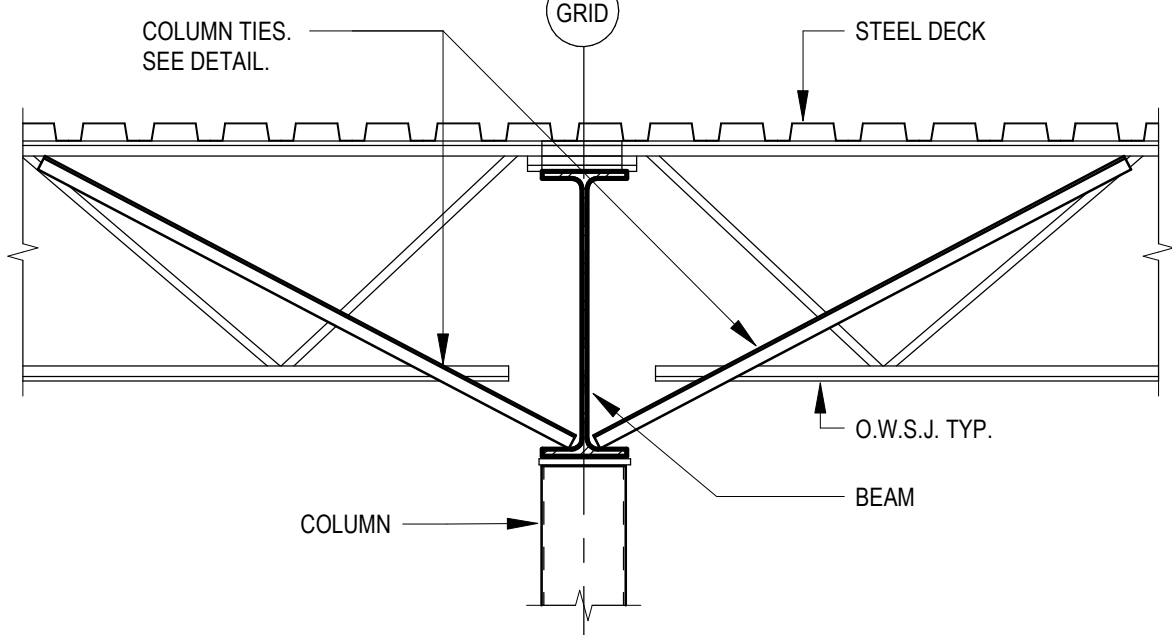
PROVIDE LOOSE ANGLE LINTEL OVER ALL OPENINGS IN EXTERIOR WALLS. SEE ARCH. DWGS. FOR NUMBERS AND LOCATIONS REQUIRED. FOR LINTELS NOT SHOWN ON PLAN FOLLOW SCHEDULE ABOVE.



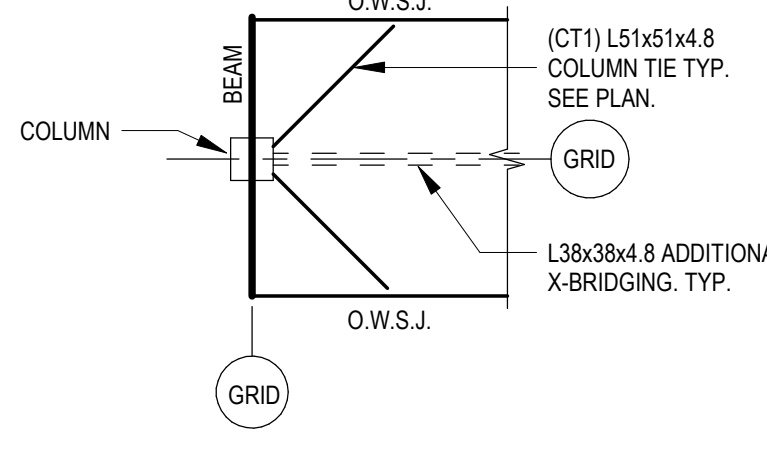
10 STUD SUPPORT ON DECK
N.T.S.



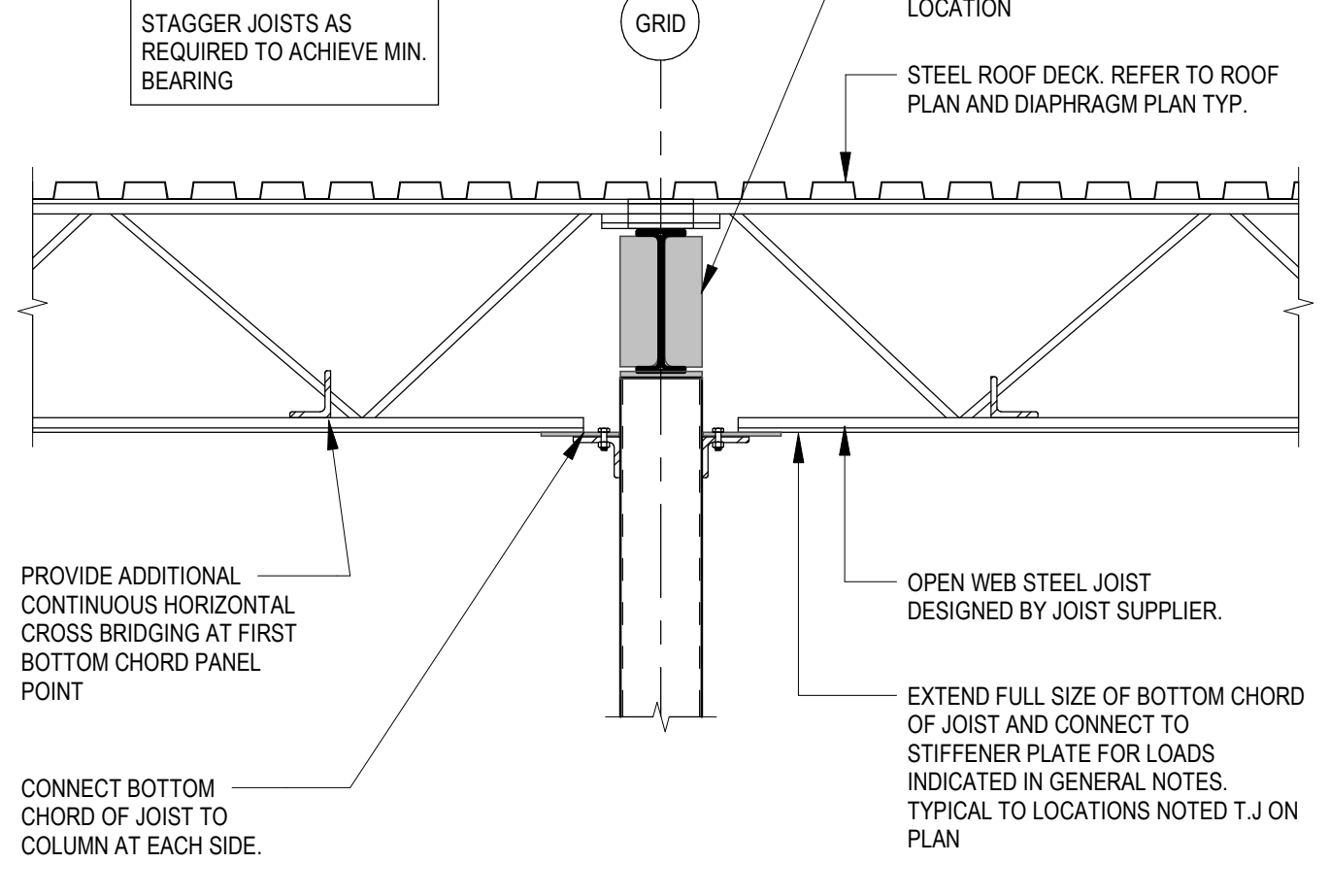
9 STUD SUPPORT ON DECK
N.T.S.



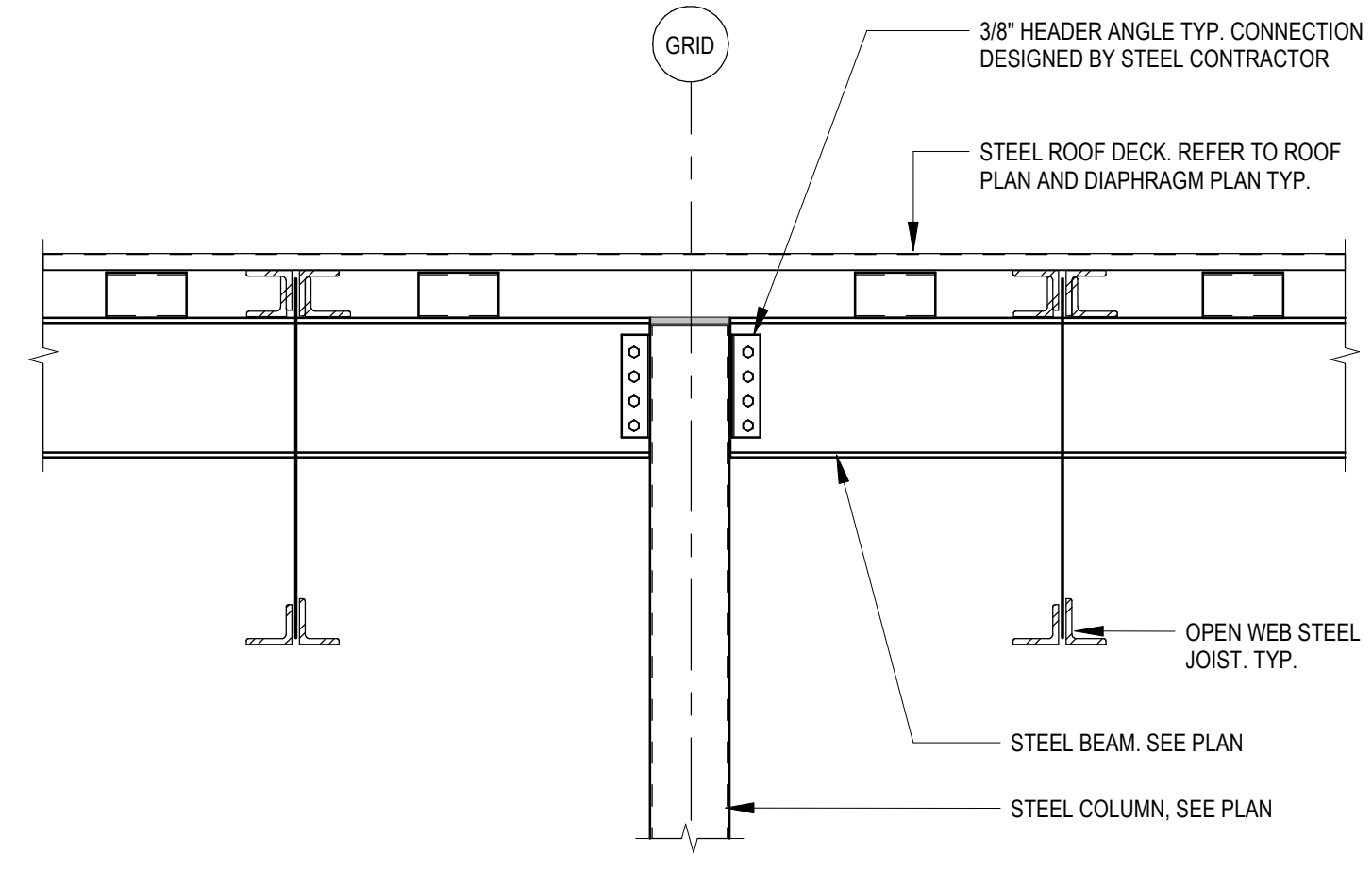
7 COLUMN TIE DETAIL
1:16



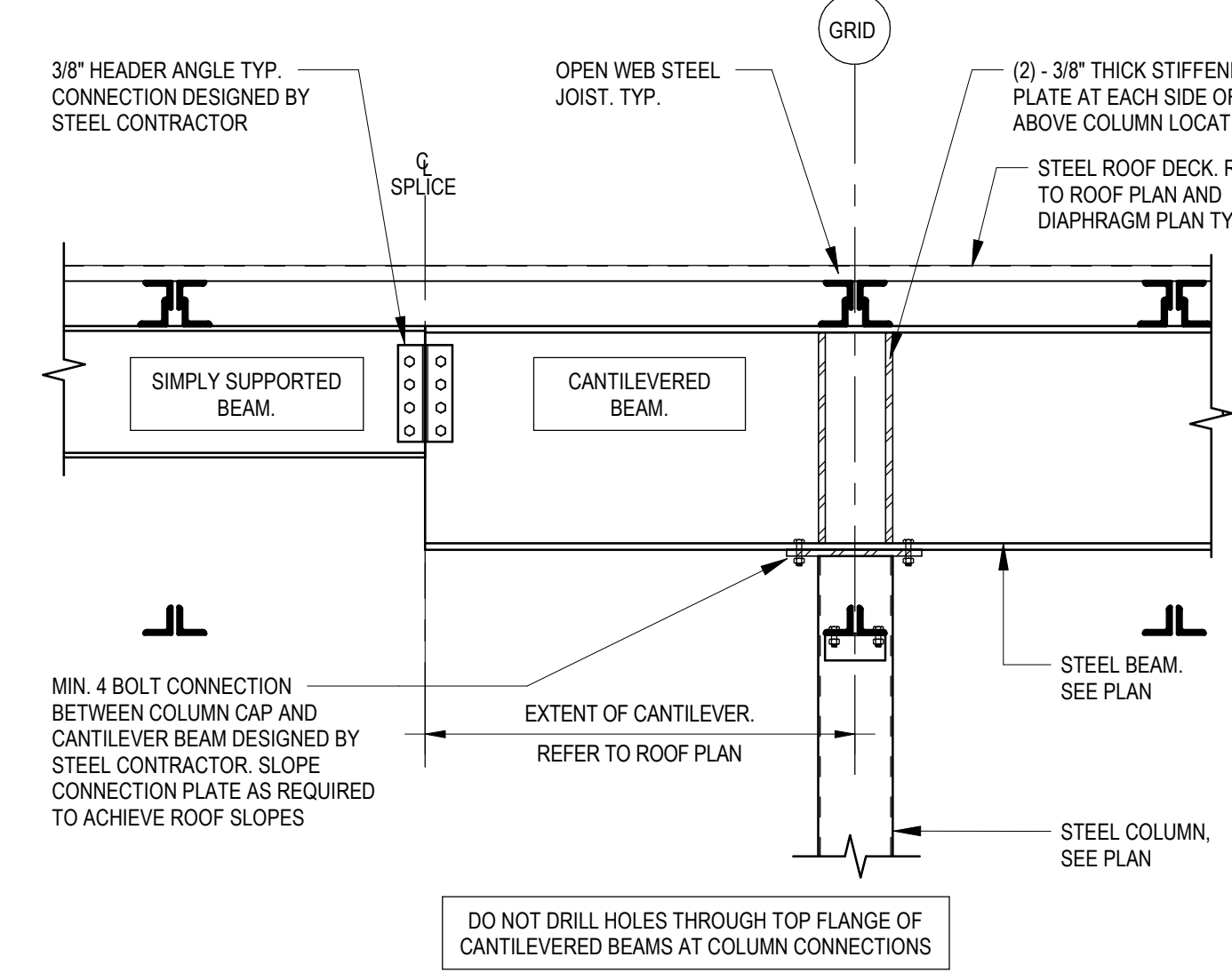
6 COLUMN TIE TYPICAL PLAN DETAIL
1:16



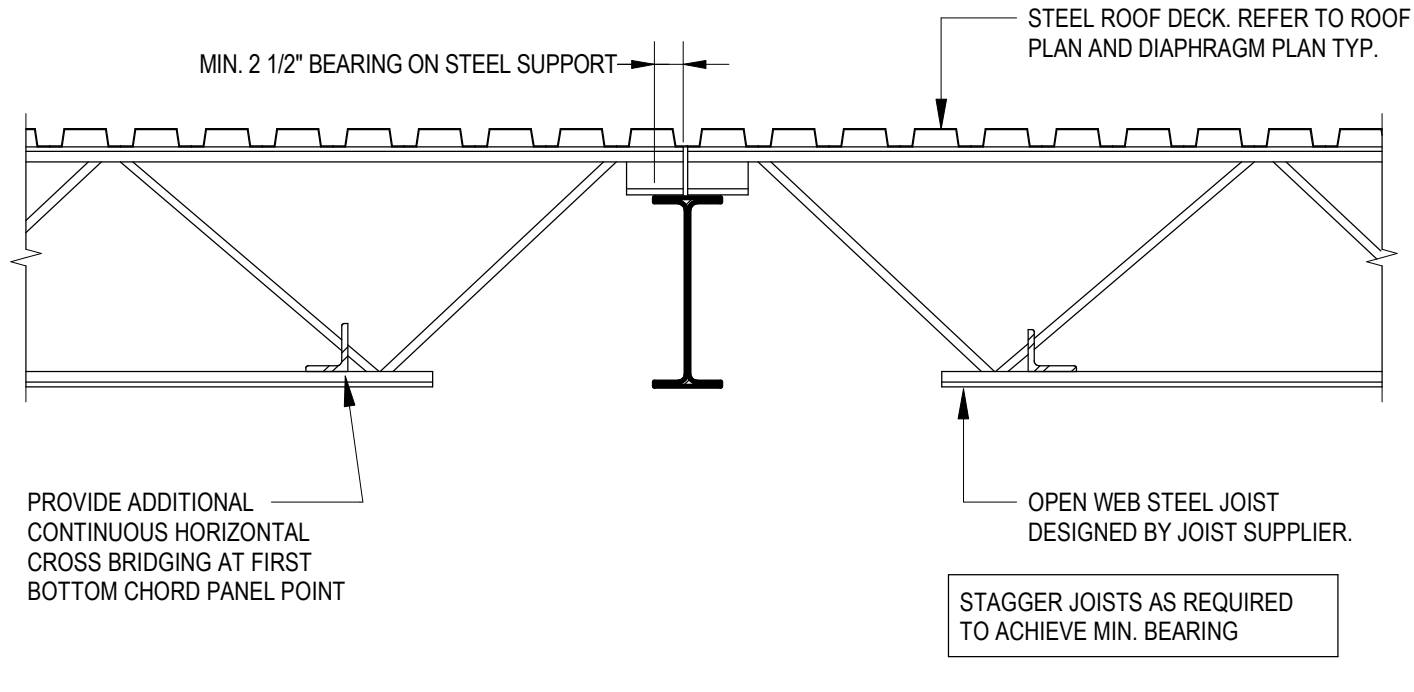
5 TYPICAL JOIST BEARING ON SHORT BM AT COL. LOCATION
1:16



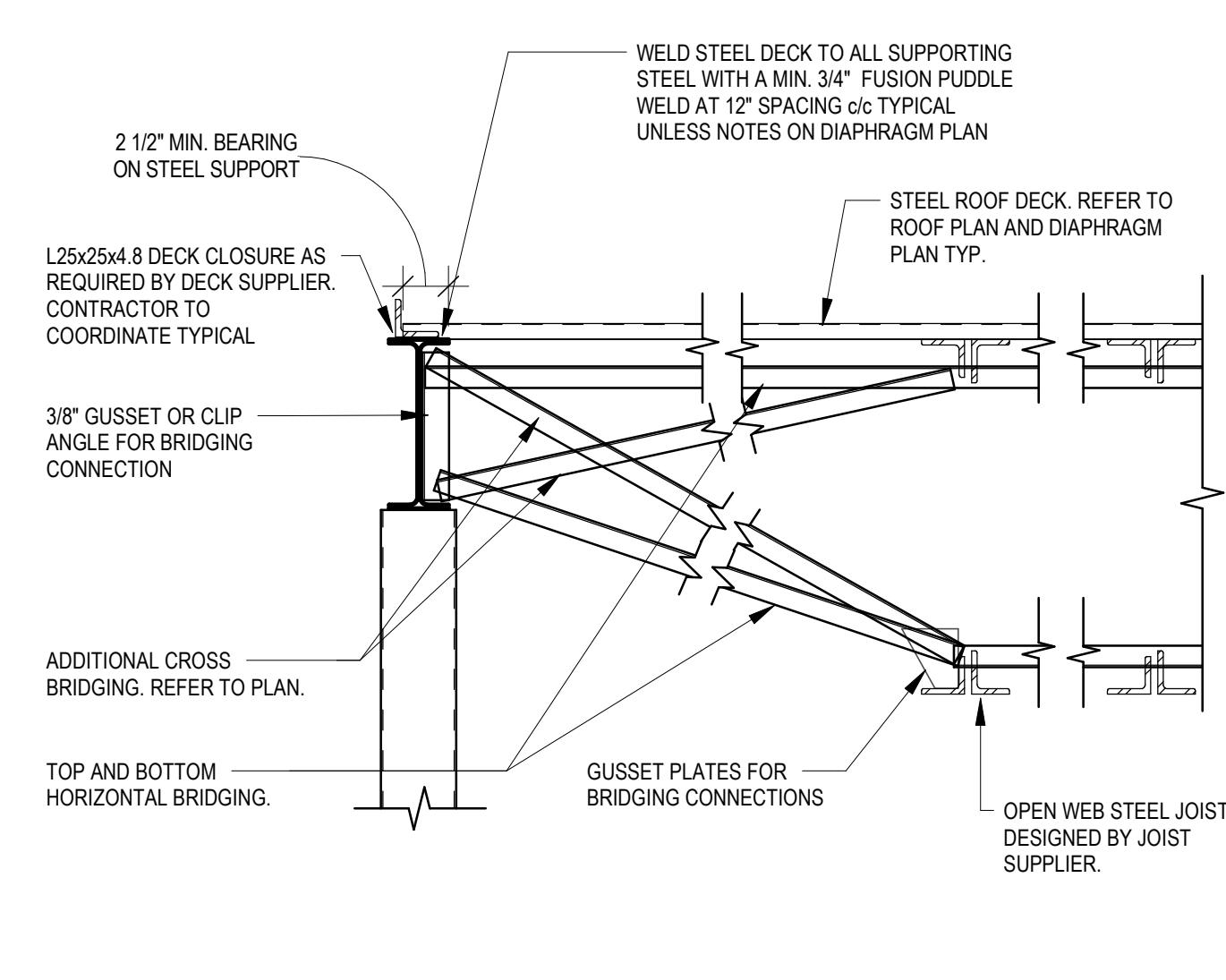
4 TYPICAL BEAM TO COLUMN CONNECTION
1:16



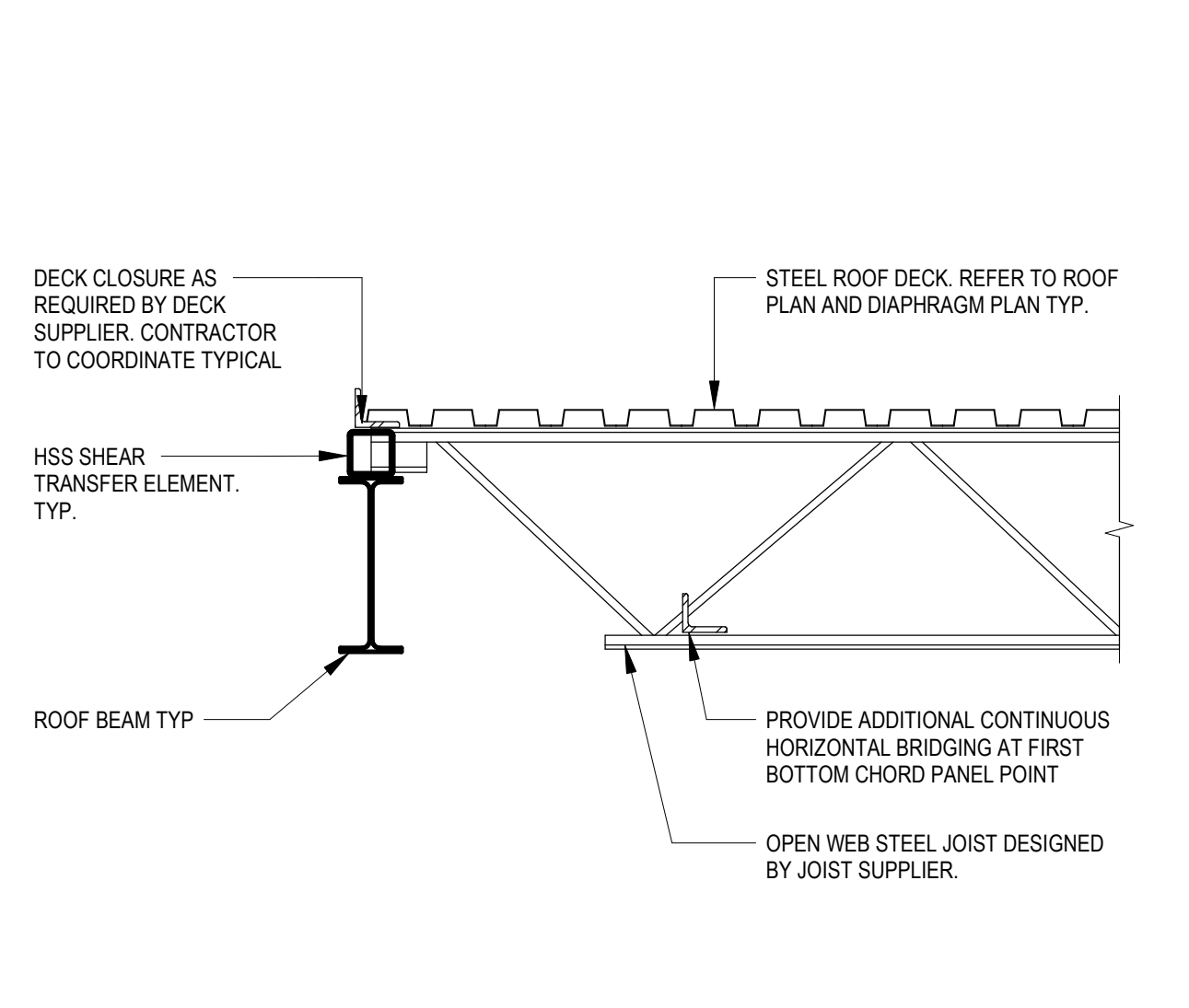
12 TYPICAL CANTILEVERED BEAM DETAIL
N.T.S.



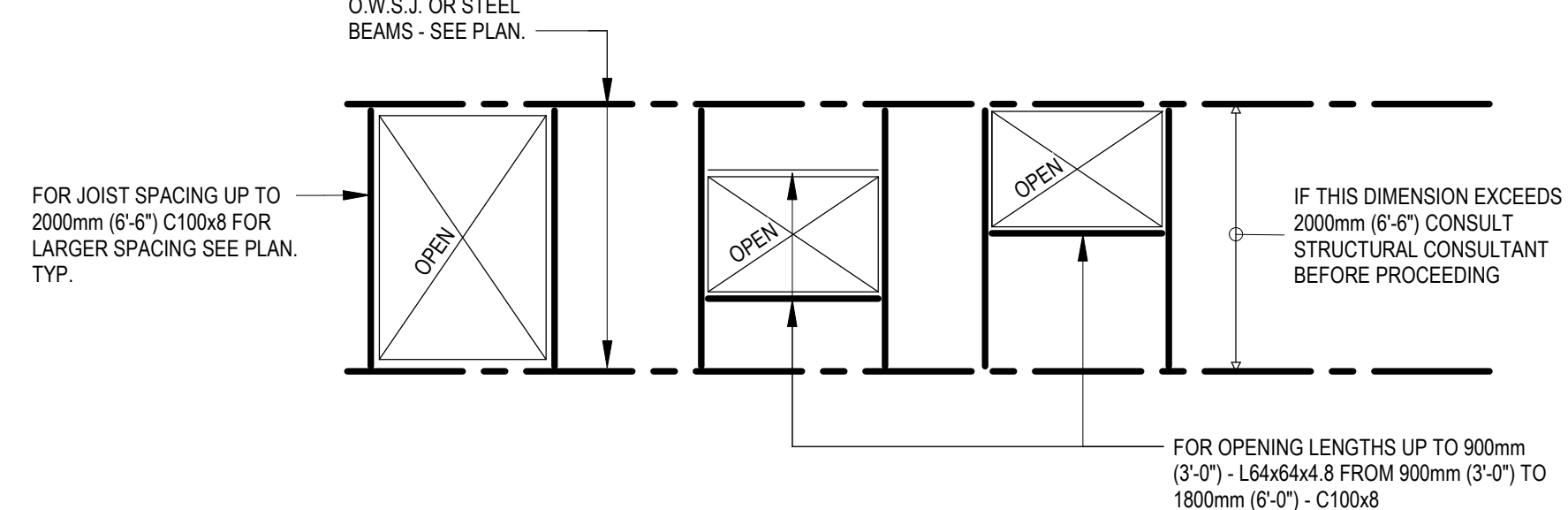
3 TYPICAL JOIST BEARING ON BEAM
1:16



2 TYPICAL PERIMETER BEAM BRIDGING DETAIL
N.T.S.



1 TYPICAL JOIST BEARING ON PERIMETER BEAM
N.T.S.



- NOTES:
- TOP OF ALL TRIMMING AT UNDERSIDE OF STEEL DECK UNLESS OTHERWISE NOTED.
 - LOCATION OF MECHANICAL UNITS AND OPENINGS THROUGH ROOF IS BASED ON INFORMATION SHOWN ON MECHANICAL DRAWINGS. THE STRUCTURAL STEEL SUB-CONTRACTOR MUST CONFIRM ALL THESE DIMENSIONS AND SIZES WITH THE MECHANICAL CONTRACTOR.
 - O.W.S.J. MUST BE DESIGNED FOR ADDITIONAL LOADS FOR MECHANICAL UNITS.
 - IF ACTUAL LOCATIONS OR DETAILS VARY FROM THOSE SHOWN, THE STRUCTURAL CONSULTANT MUST BE INFORMED AND INSTRUCTIONS RECEIVED BEFORE PROCEEDING WITH THE WORK.
 - THE STRUCTURAL STEEL SUB-CONTRACTOR IS TO SUBMIT ERECTION DRAWINGS TO THE MECHANICAL ENGINEER AND/OR CONTRACTOR APPROVAL OF SIZE AND LOCATION OF OPENINGS FOR MECHANICAL UNITS.

8 TRIMMING AT OPENINGS IN DECK
N.T.S.

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No.	Description	Date
7	ISSUED FOR BUILDING PERMIT	2023-01-07

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Scale As indicated
NEW TECUMSETH FIRE STATION 4

6375 14th LINE, ALLISTON, ONTARIO

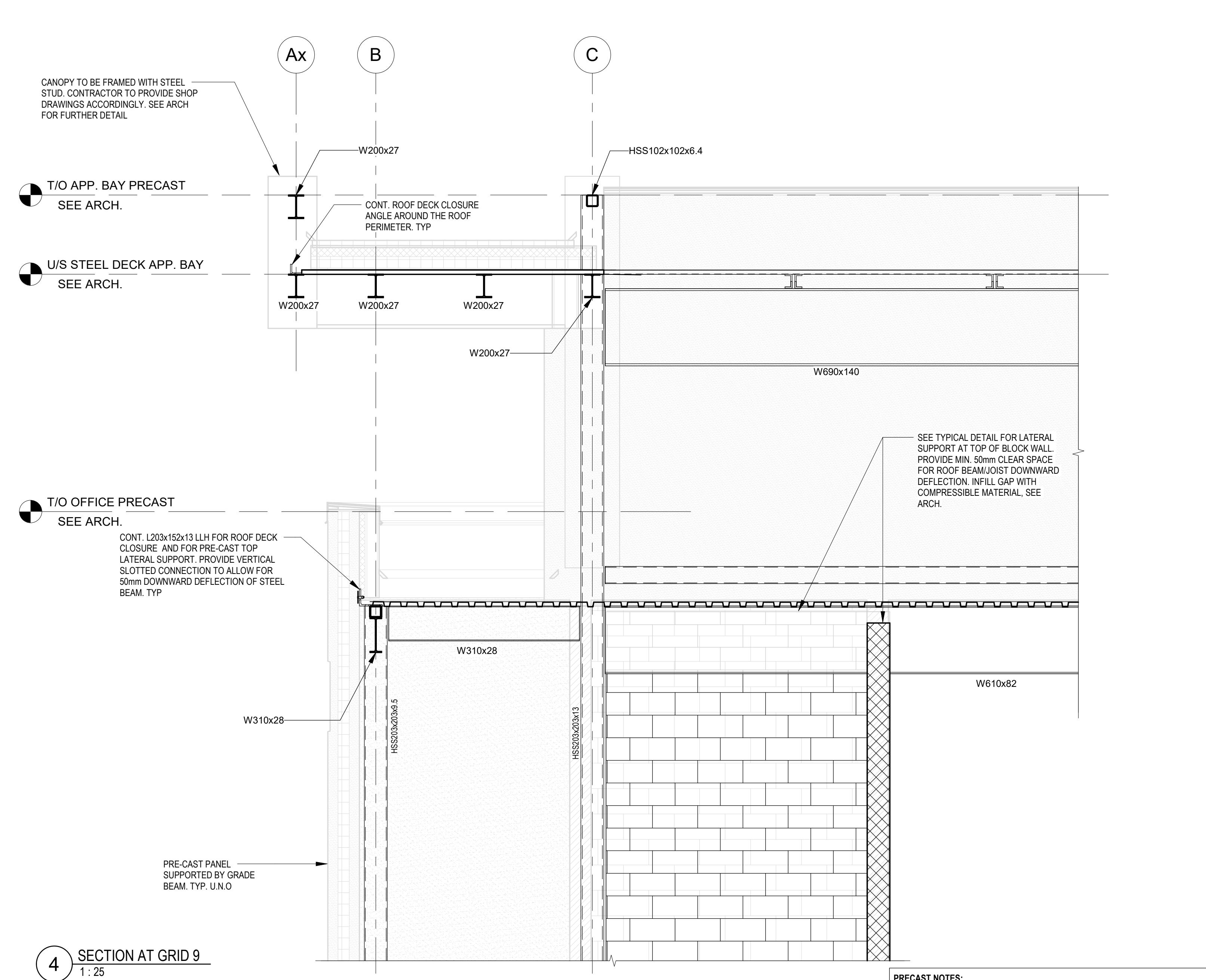
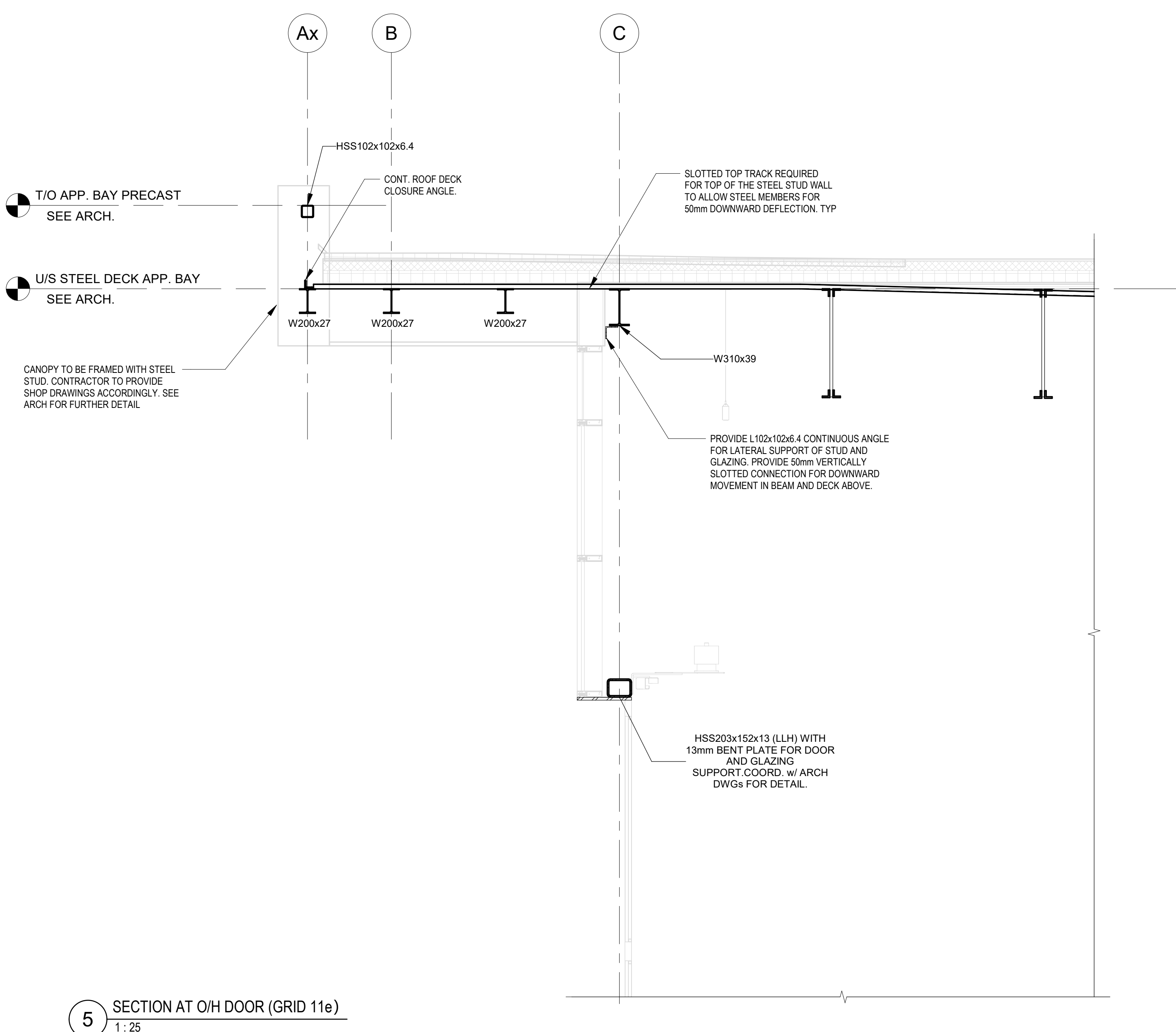
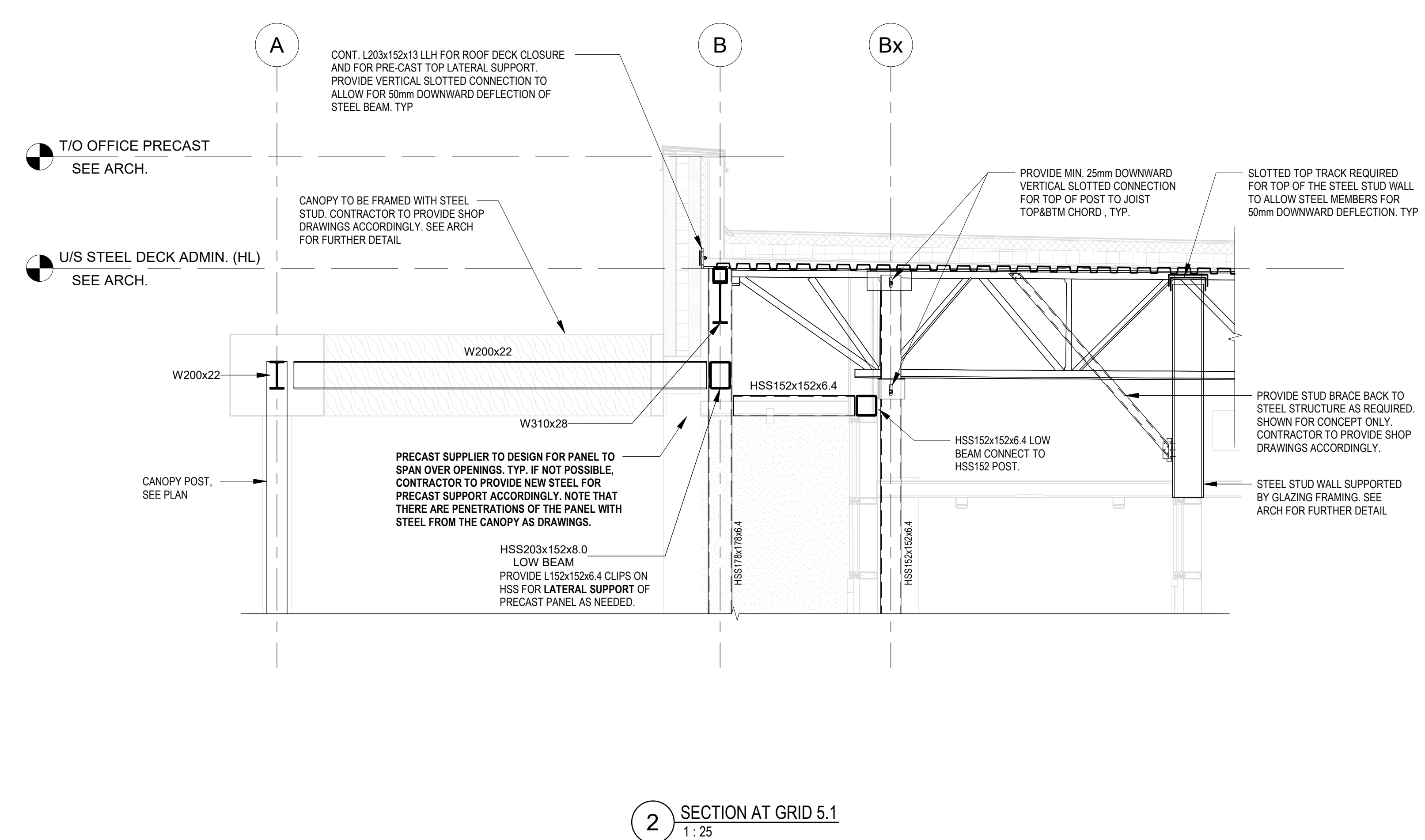
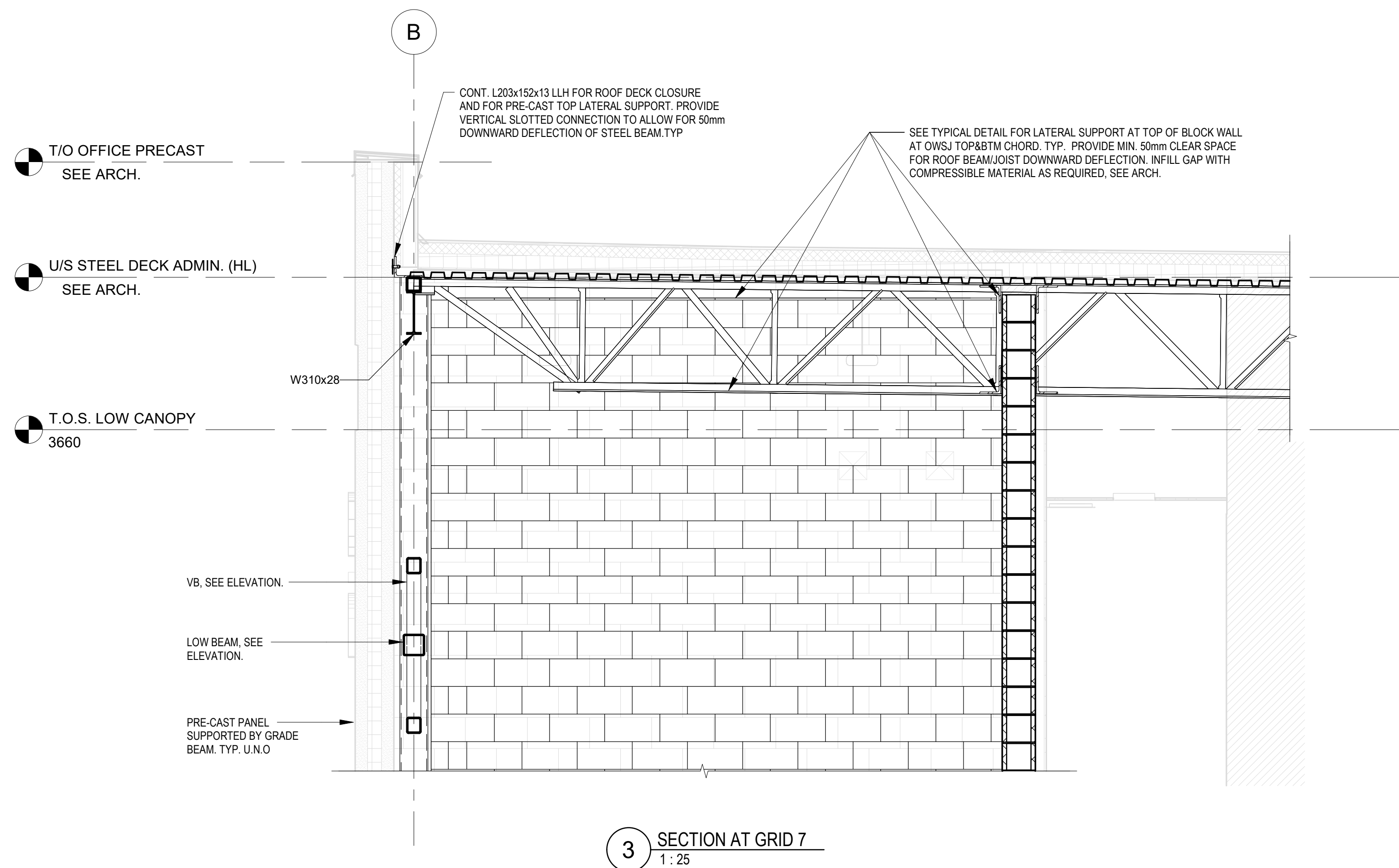
ROOF FRAMING DETAILS



JOB	2019-095	DRAWING
DATE	2023-07-13	S320

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- PRECAST NOTES:**
1. PRECAST SUPPLIER IS TO ACCOMMODATE FOR PENETRATION OF STEEL MEMBERS THROUGH PRECAST AT VARIOUS LOCATIONS. TYP.
 2. PRECAST SUPPLIER IS TO PROVIDE VERTICALLY SLOTTED CONNECTIONS BETWEEN THE PRECAST AND STEEL FRAME TO ALLOW FOR 50MM LL DEFLECTION OF BEAM AT MID SPAN. (TYP. FOR FULL HEIGHT PANEL).
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 4. PRECAST SUPPLIER IS TO DESIGN PRECAST TO STEEL BEAM CONNECTION WHERE THE PRECAST IS TO BE HUNG FROM THE STEEL BEAM AS NOTED ON THE DRAWINGS, AND TO COORDINATE WITH STEEL CONTRACTOR FOR FABRICATE AND INSTALLATION OF THE CONNECTION COMPONENTS.

No.	Description	Date
7	ISSUED FOR BUILDING PERMIT	2023-01-07

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO GRAVITY ENGINEERING BEFORE PROCEEDING WITH THE WORK.

Scale 1:25

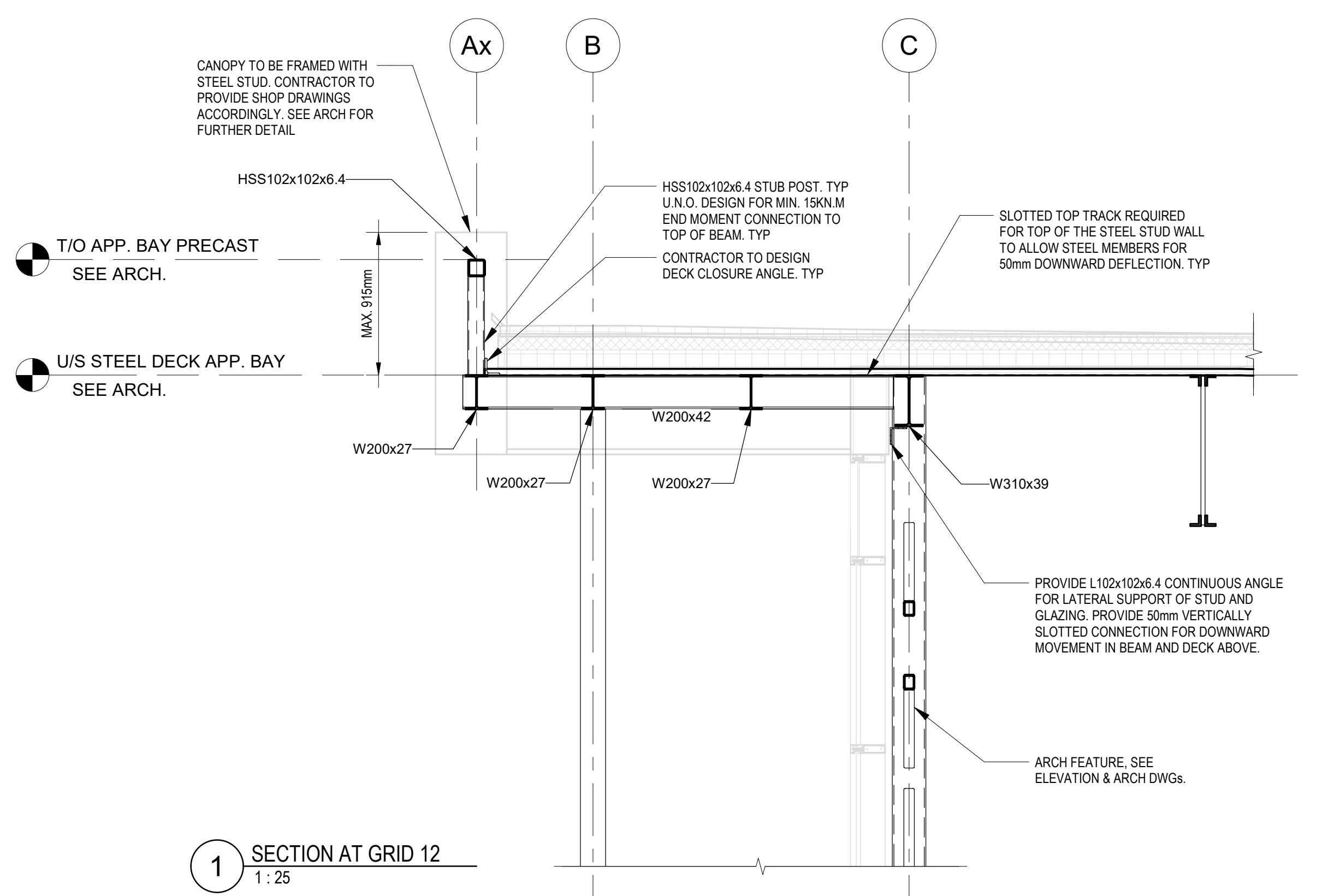
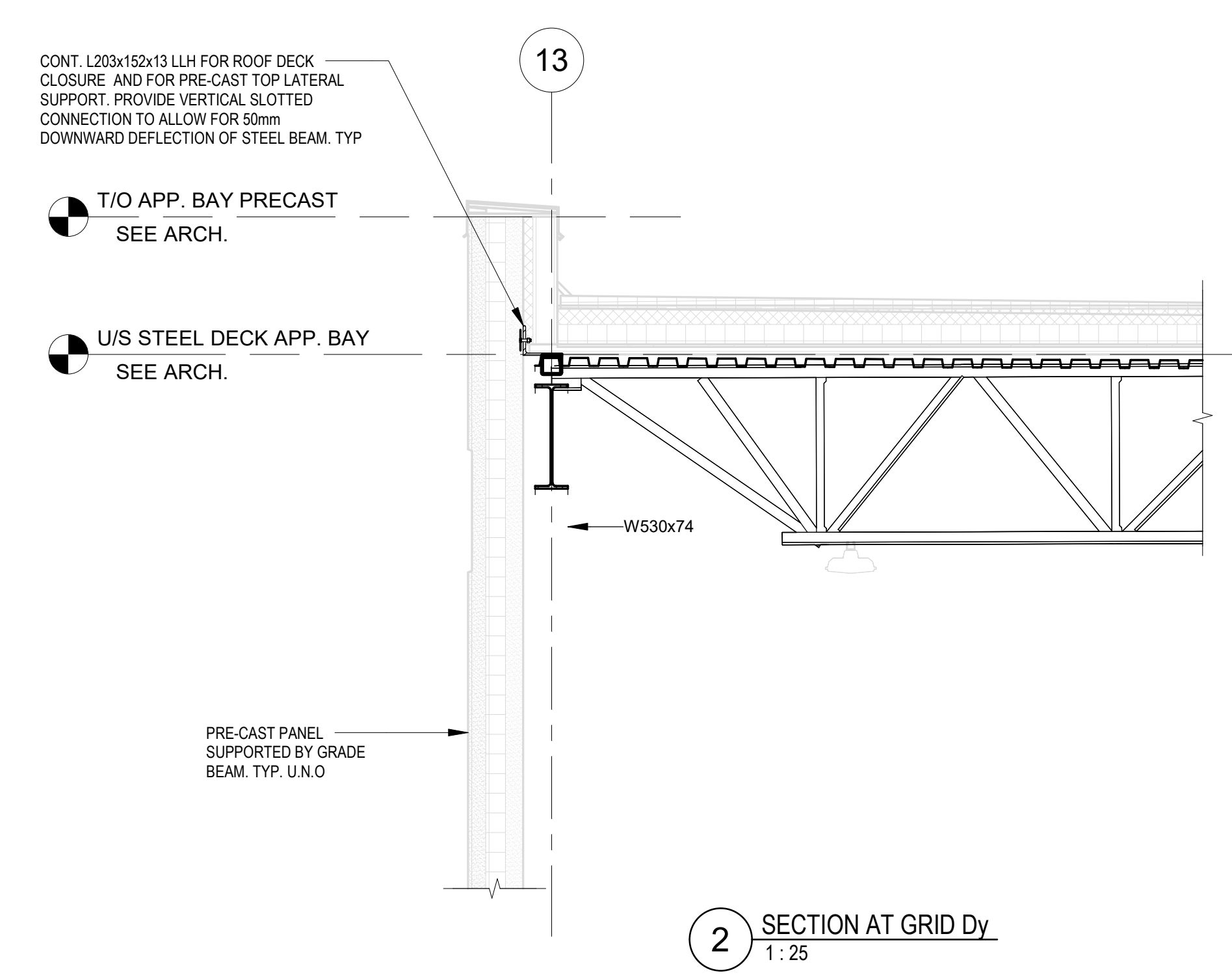
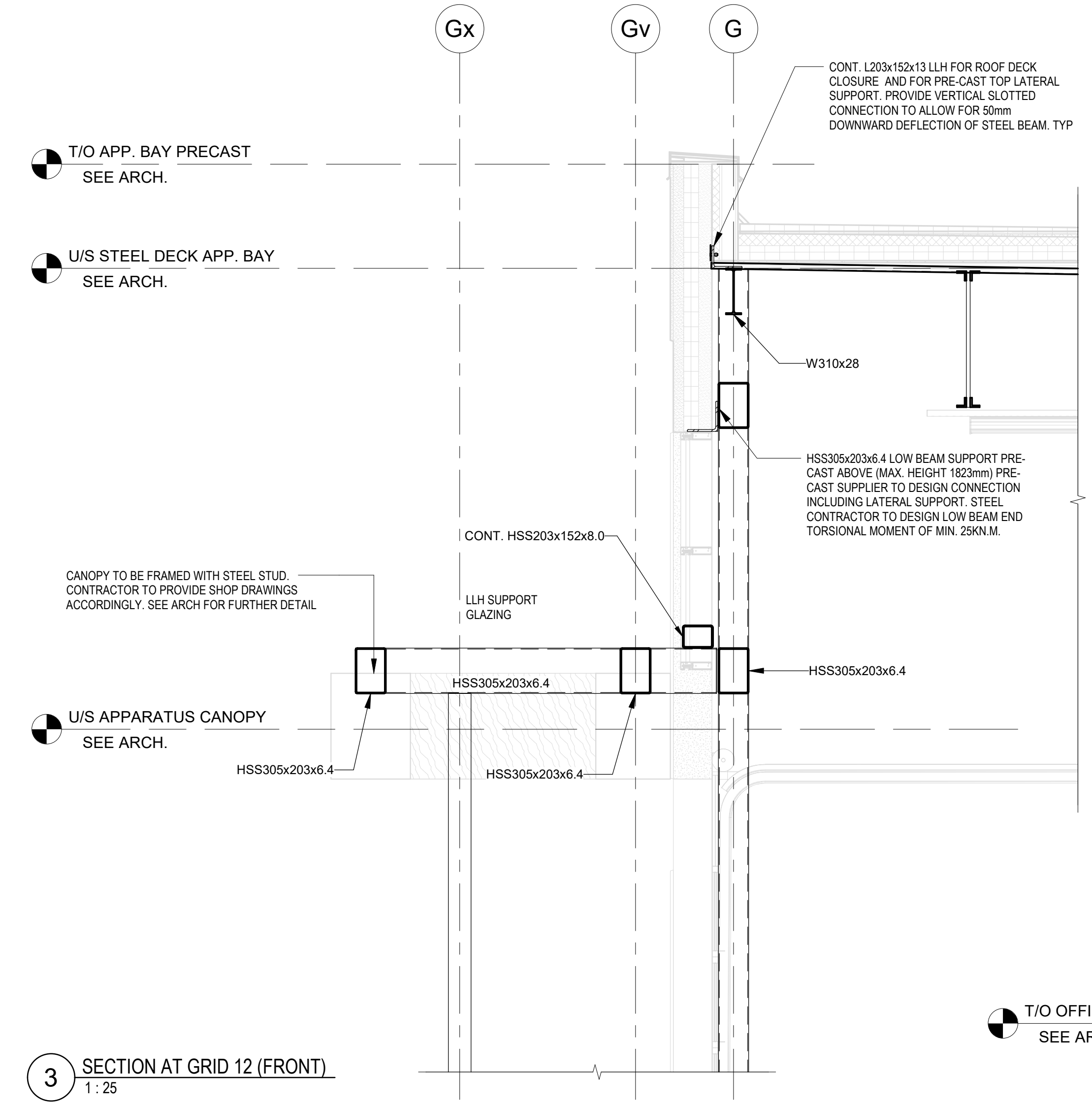
**NEW TECUMSETH
FIRE STATION 4**

6375 14th LINE, ALLISTON, ONTARIO

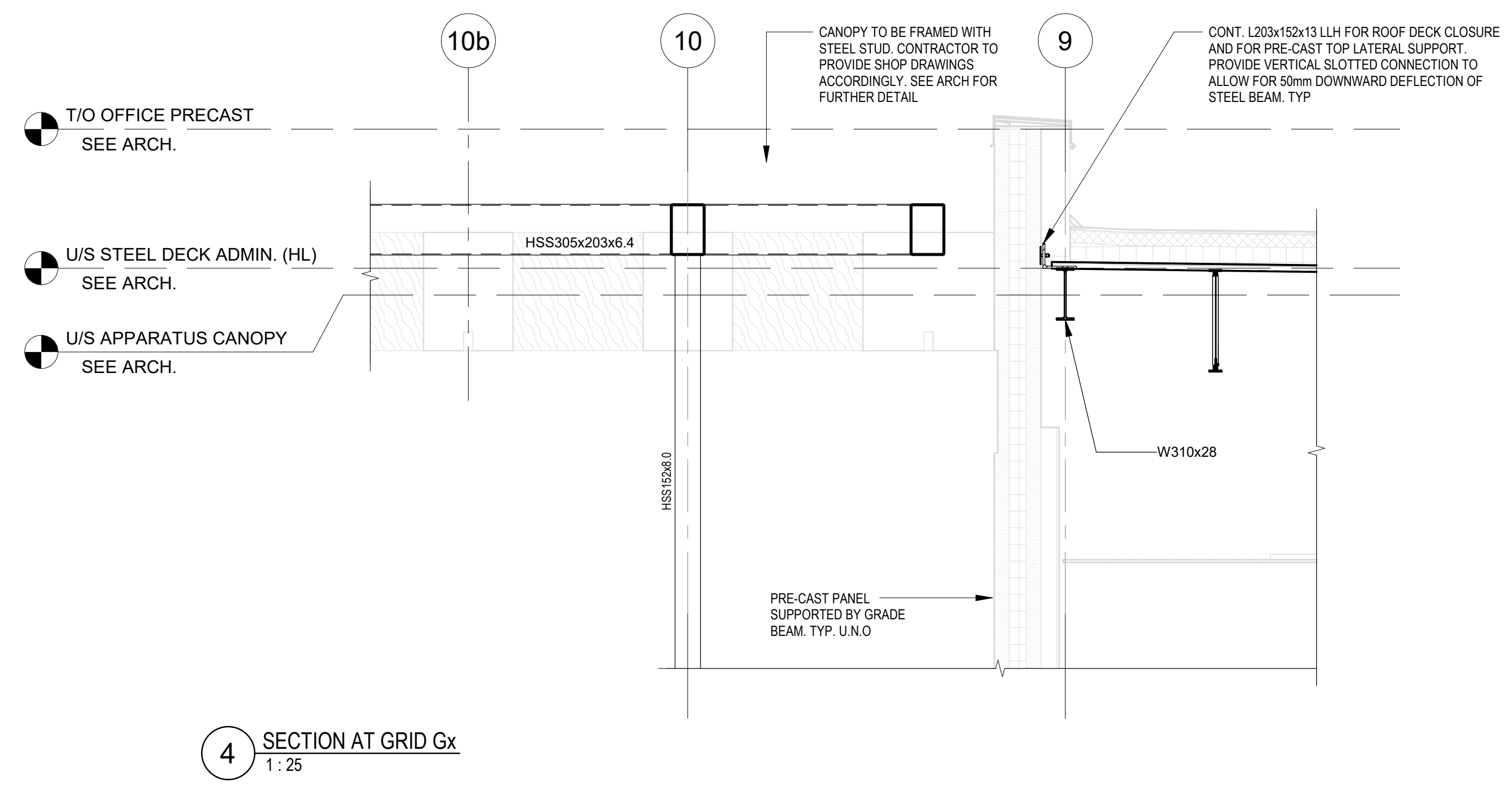
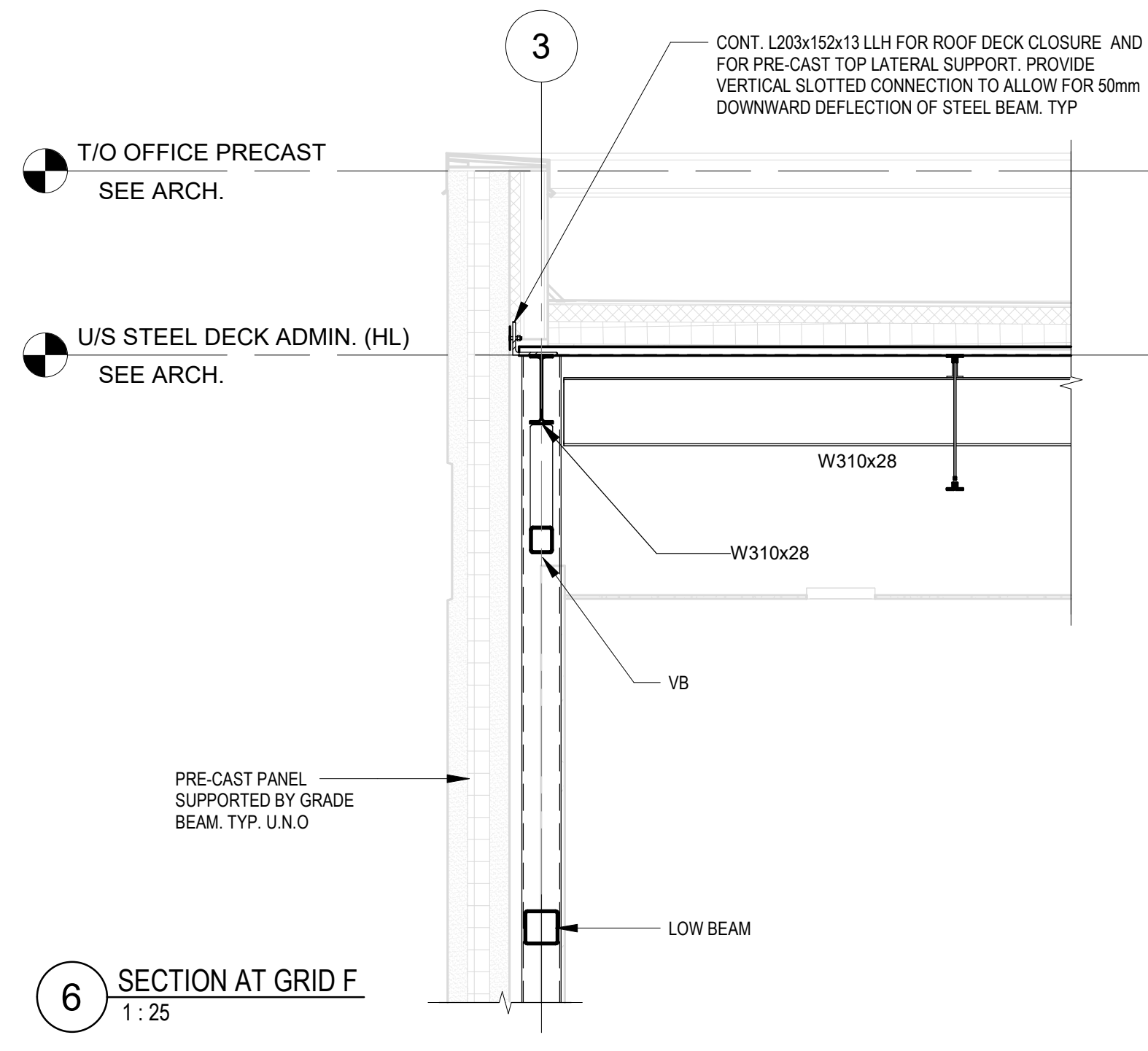
ROOF FRAMING SECTIONS



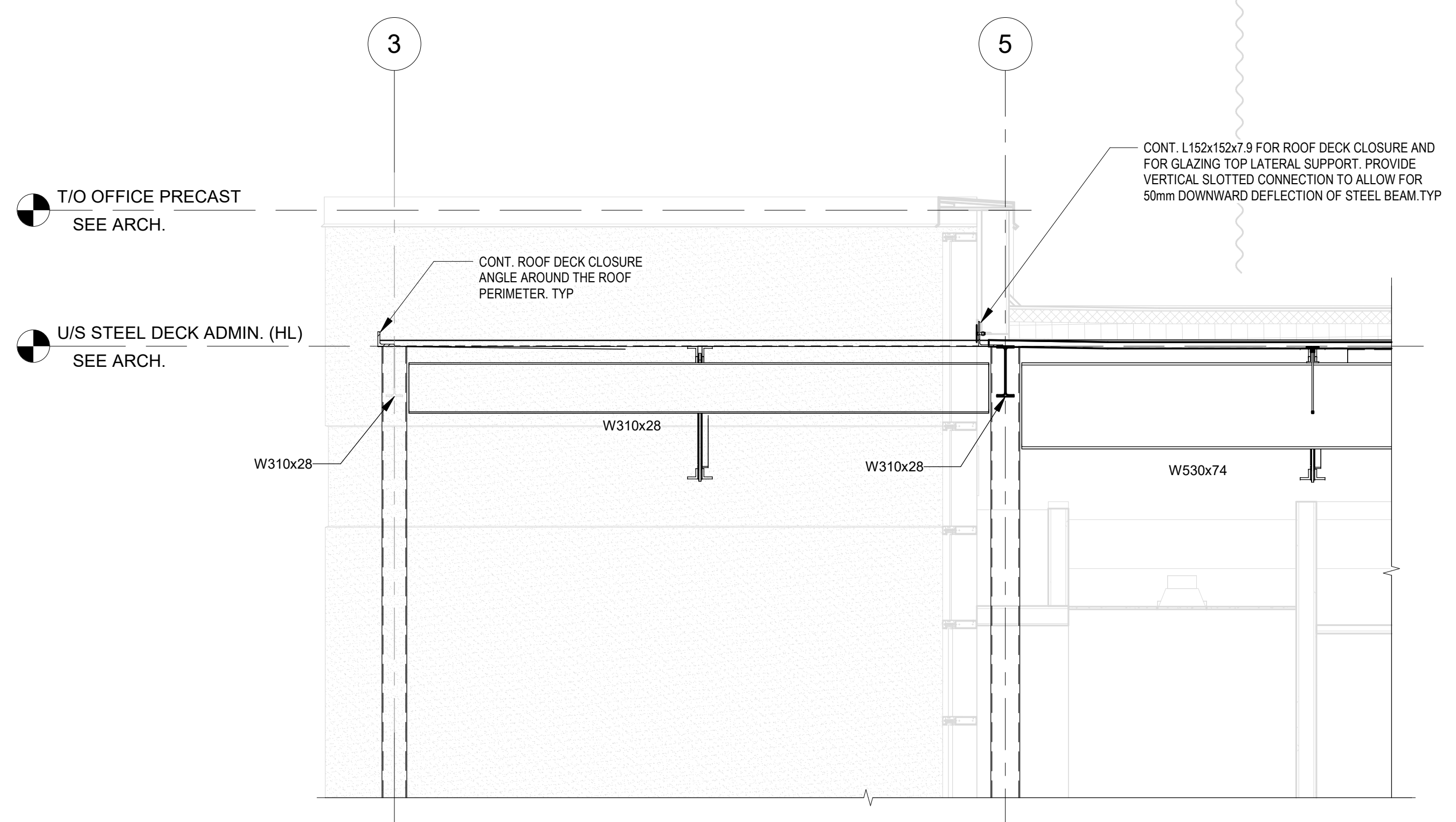
JOB DATE 2019-095 2023-07-13 DRAWING S400



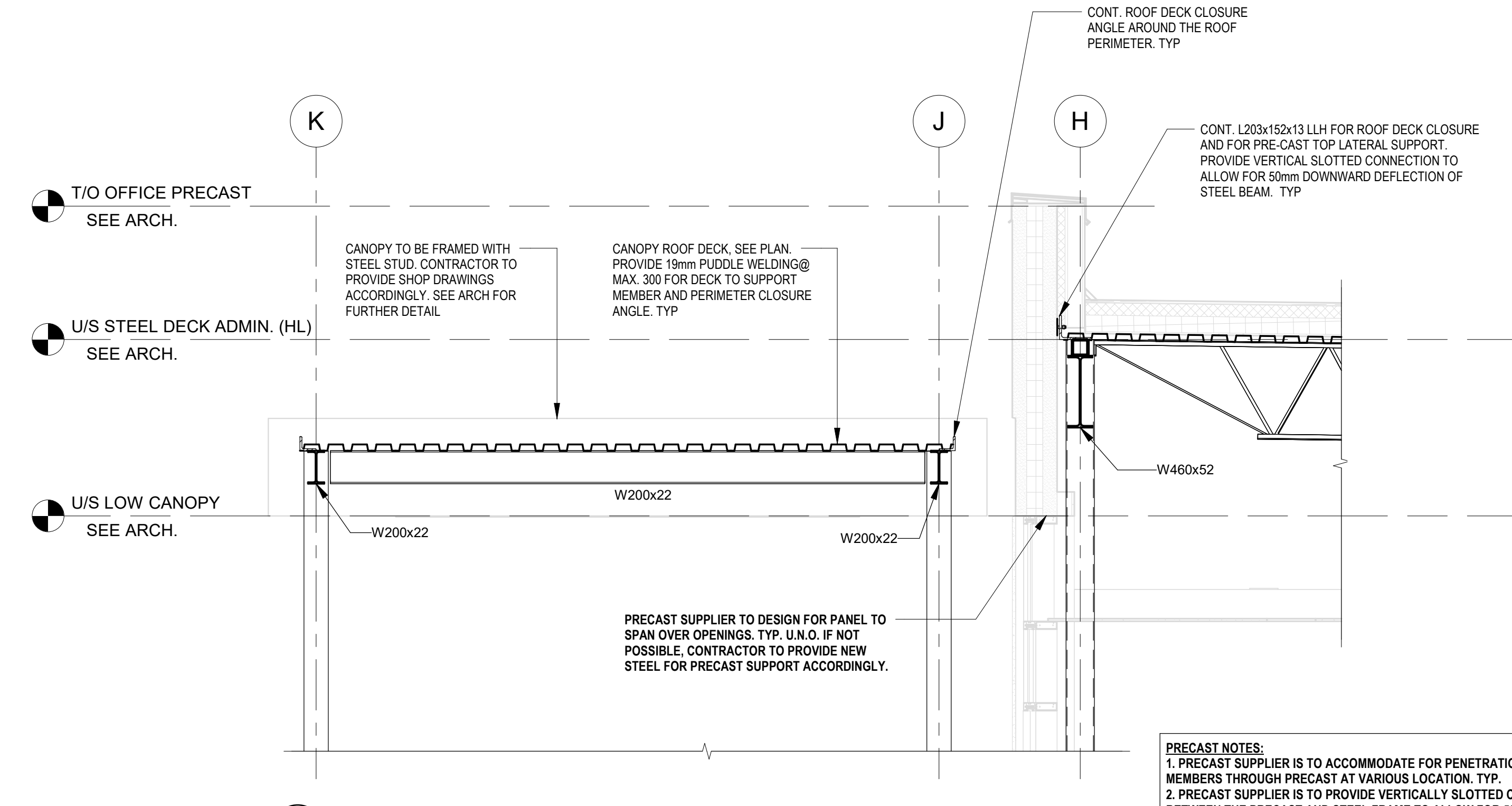
3 SECTION AT GRID 12 (FRONT)
1:25



4 SECTION AT GRID Gx
1:25



7 SECTION AT GRID E
1:25



5 SECTION AT GRID 7 (FRONT)
1:25

PRECAST NOTES:
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CONFIRM ALL GRIDS, DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS. CONTACT GRAVITY ENGINEERING FOR ANY DISCREPANCIES.
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Scale 1:25

NEW TECUMSETH FIRE STATION 4

6375 14th LINE, ALLISTON, ONTARIO

ROOF FRAMING SECTIONS

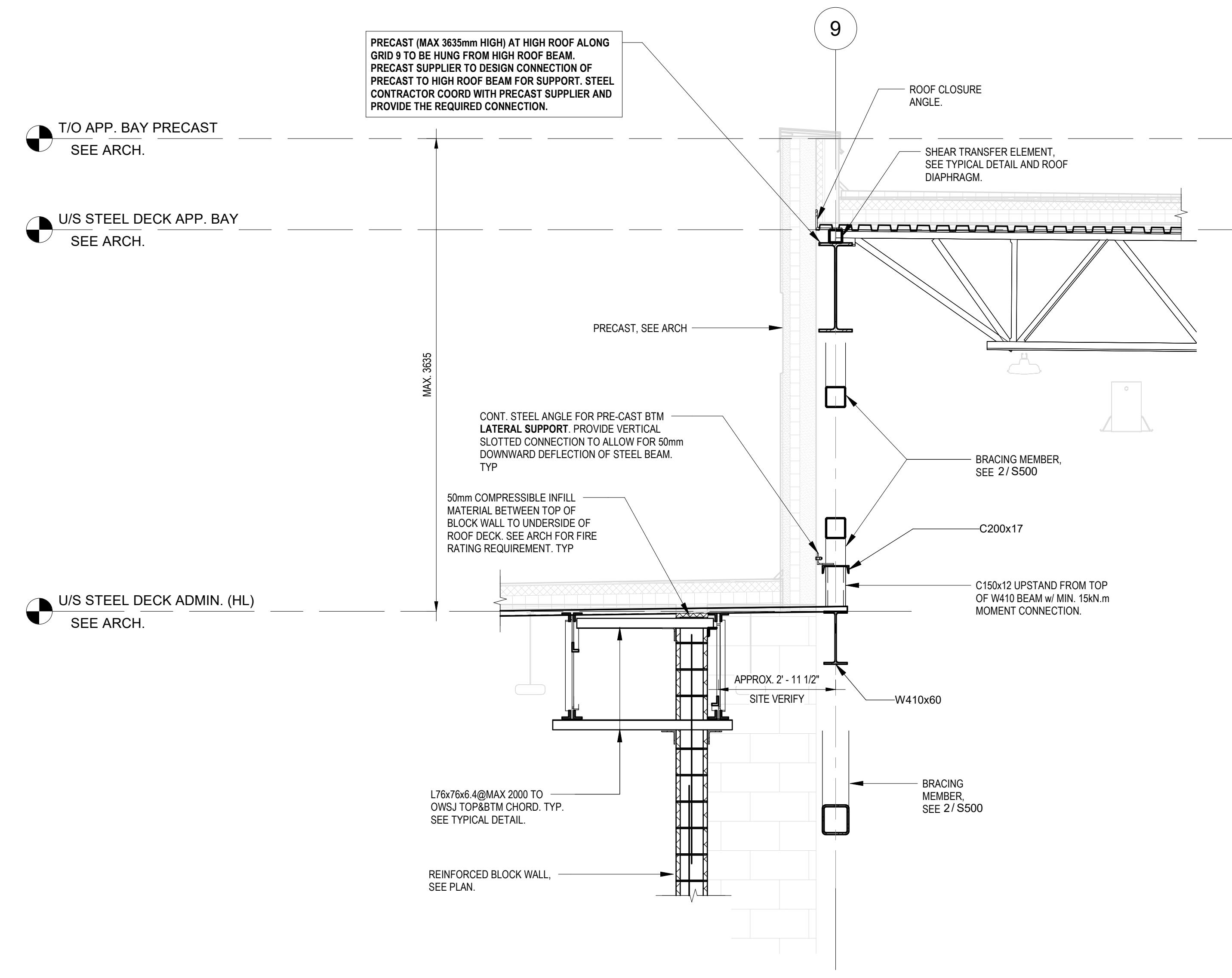


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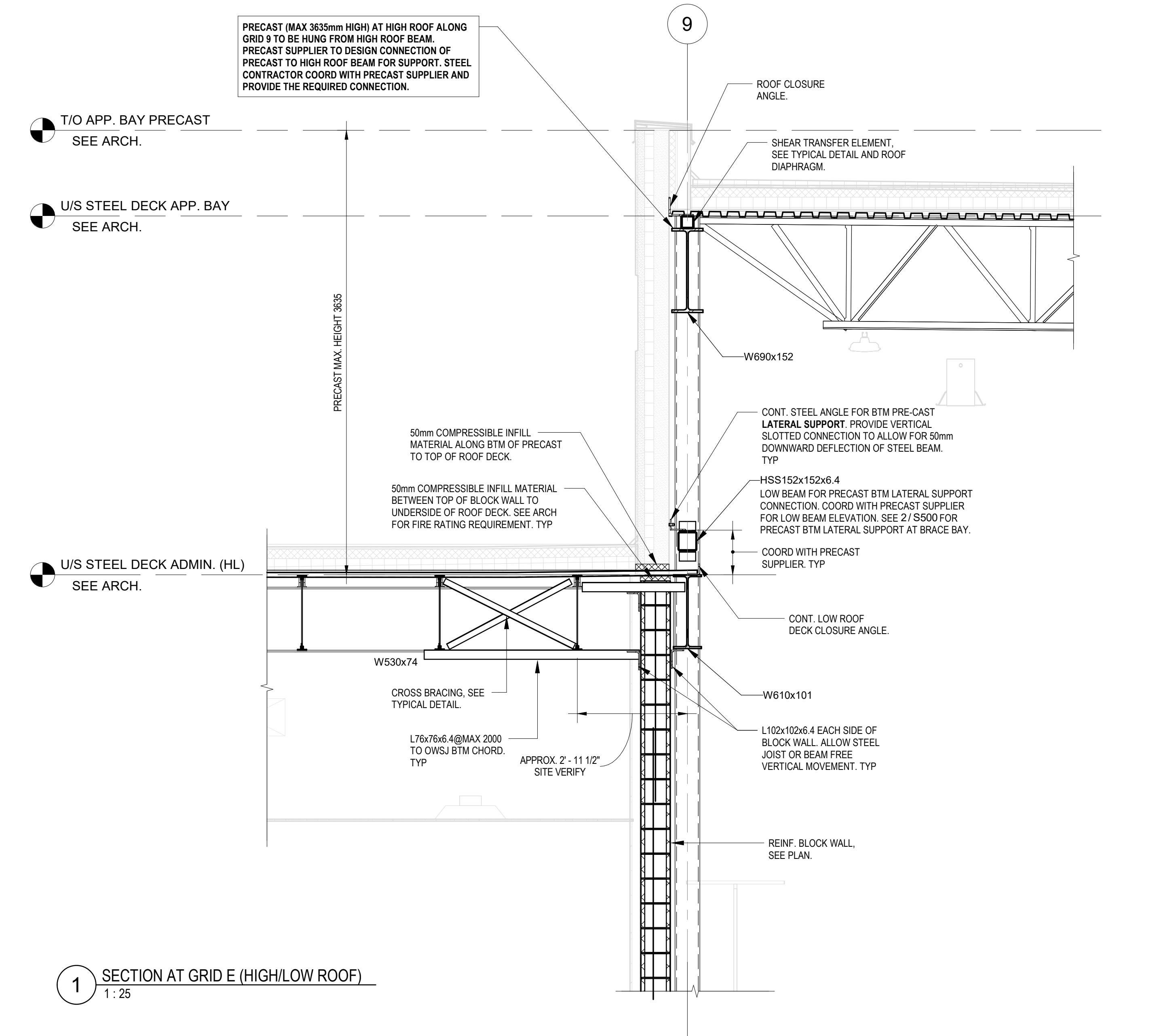
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No.	Description	Date

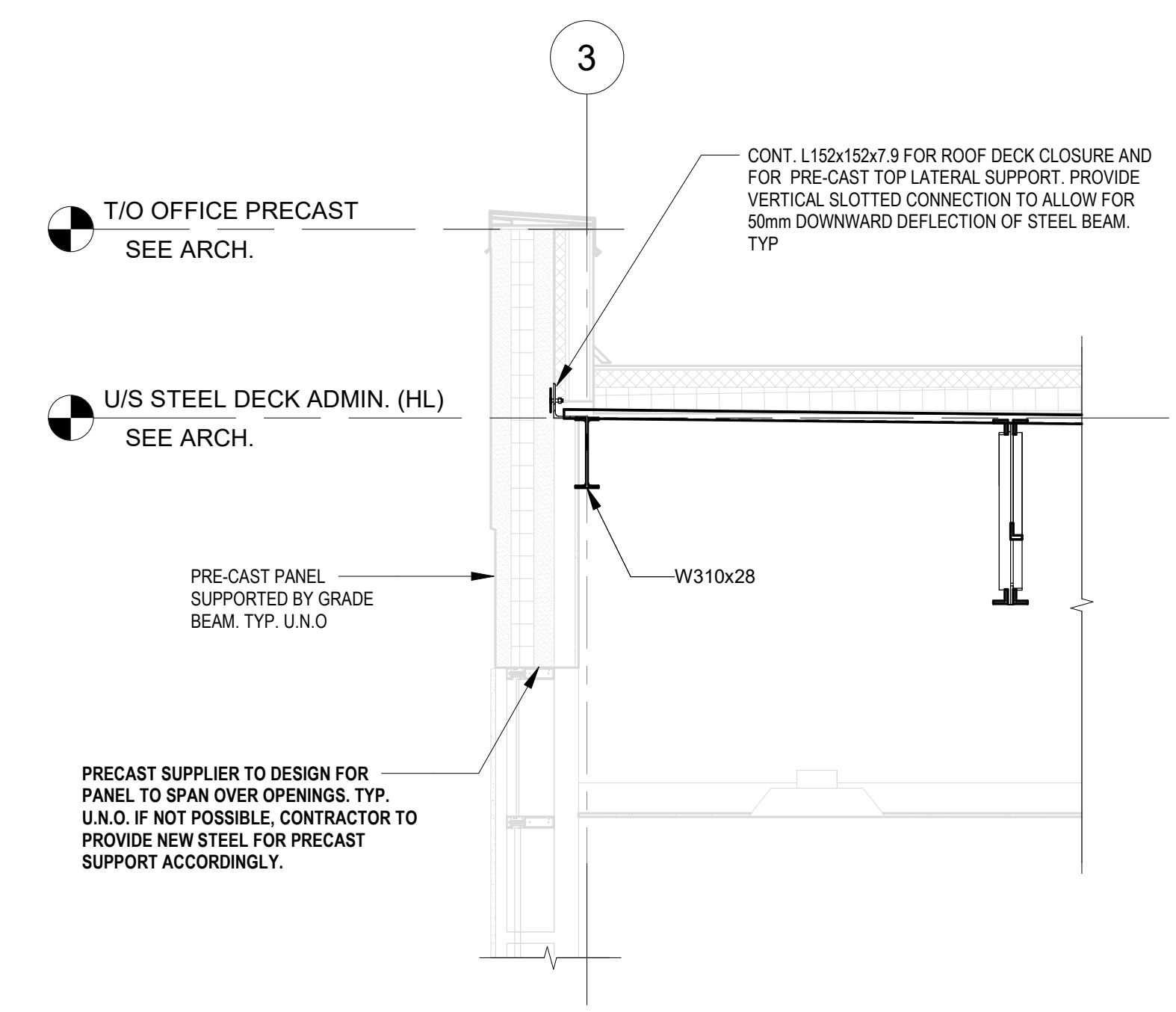
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2 SECTION AT GRIDLINE Dy
1:25



1 SECTION AT GRID E (HIGH/LOW ROOF)
1:25



3 SECTION AT GRID Dz
1:25

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Scale 1:25

**NEW TECUMSETH
FIRE STATION 4**

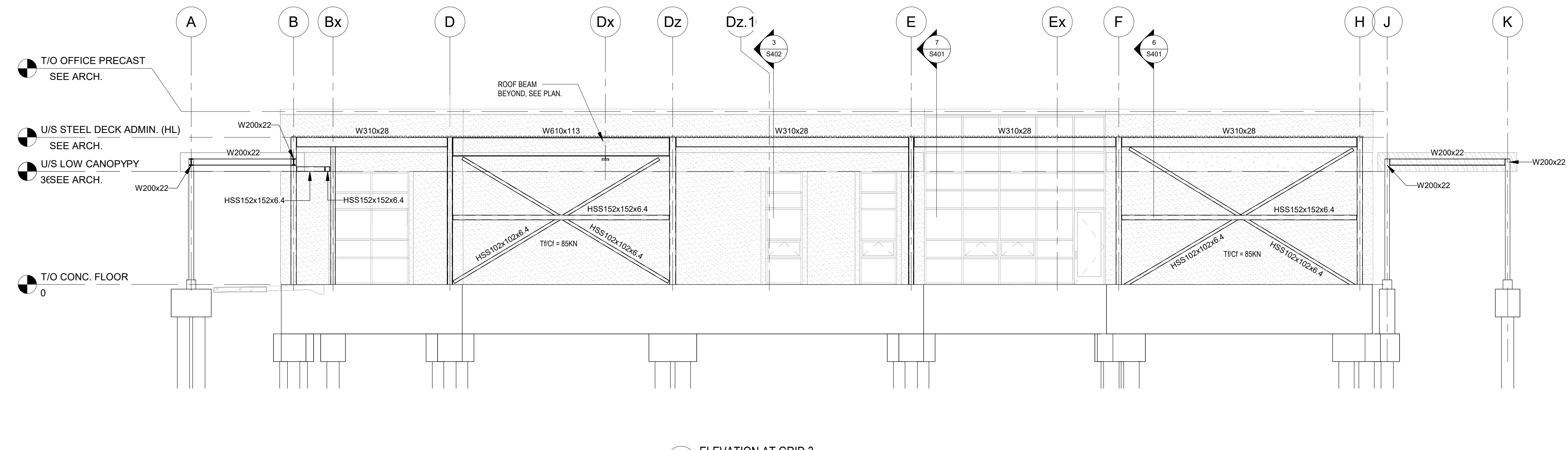
6375 14th LINE, ALLISTON, ONTARIO

ROOF FRAMING SECTIONS

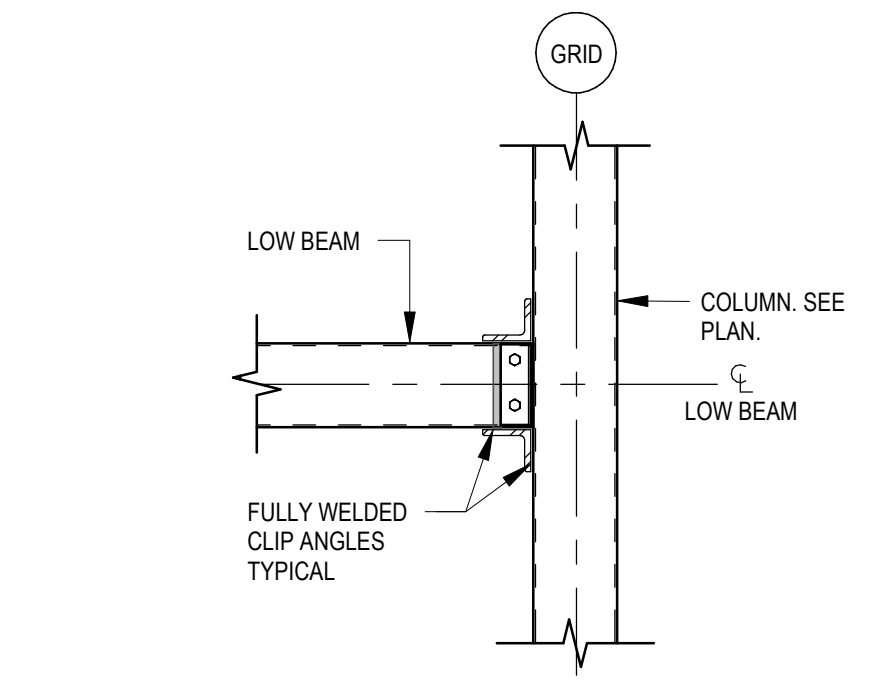


JOB: 2019-095 DRAWING: S402
 DATE: 2023-07-13

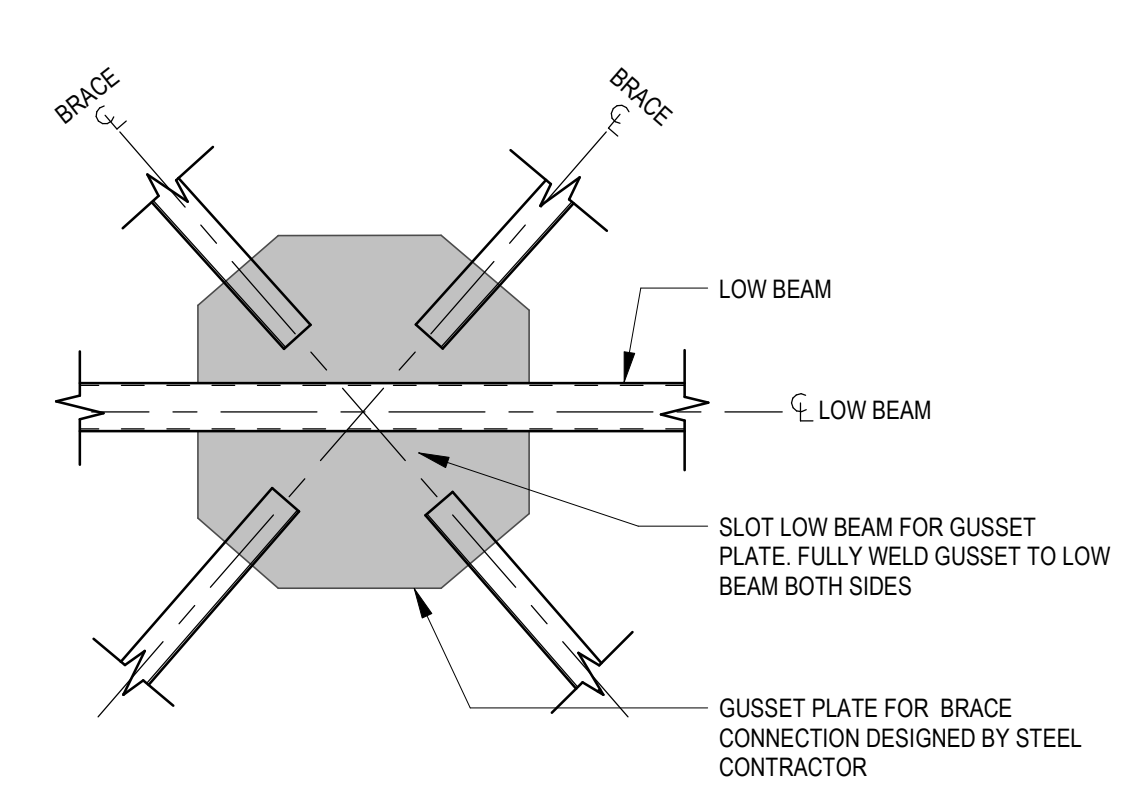
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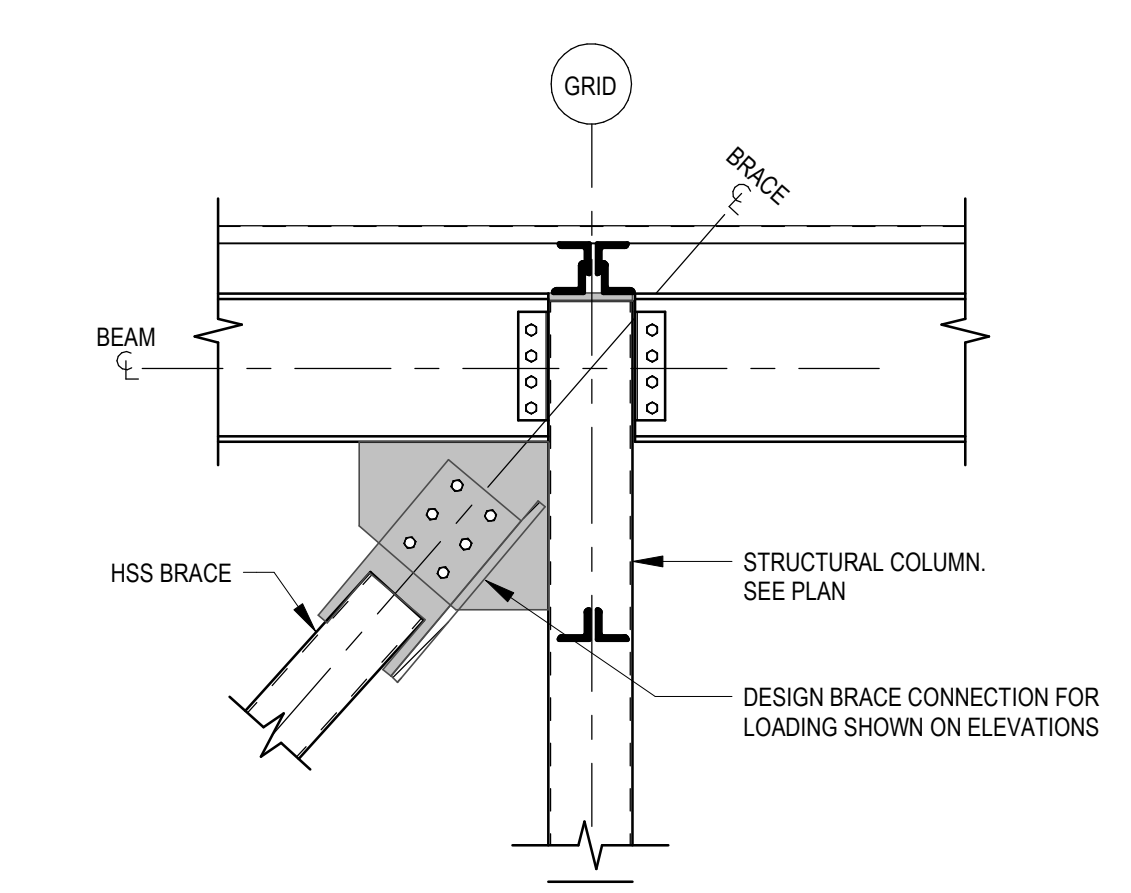
1 ELEVATION AT GRID 3
1:75



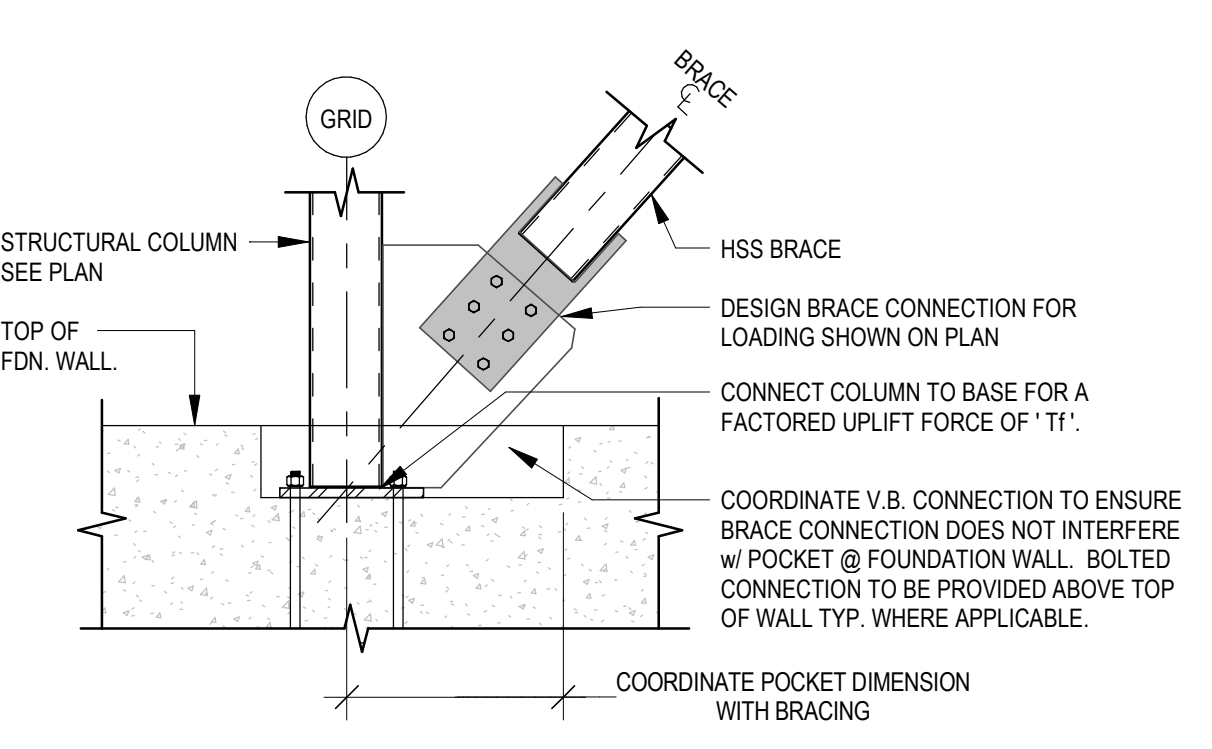
D TYPICAL LOW BEAM CONNECTION DETAIL
N.T.S.



C BRACE TO LOW BEAM CONNECTION DETAIL
N.T.S.

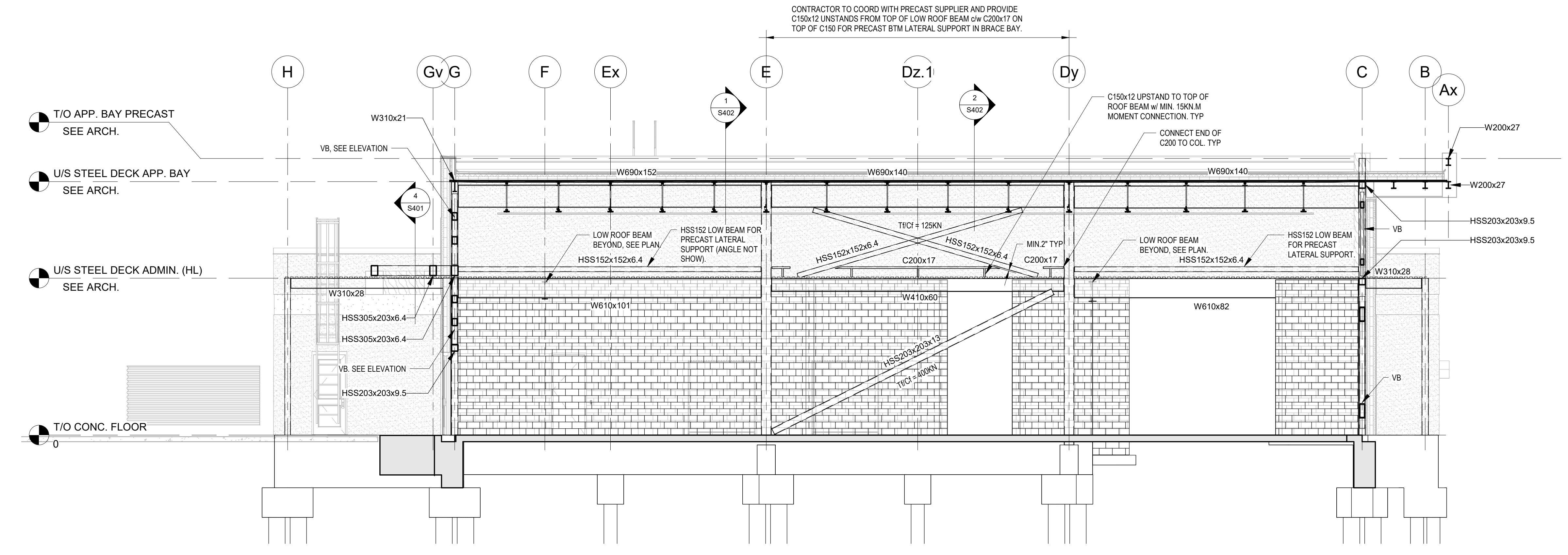


B TYPICAL ROOF LEVEL BRACE DETAIL
N.T.S.

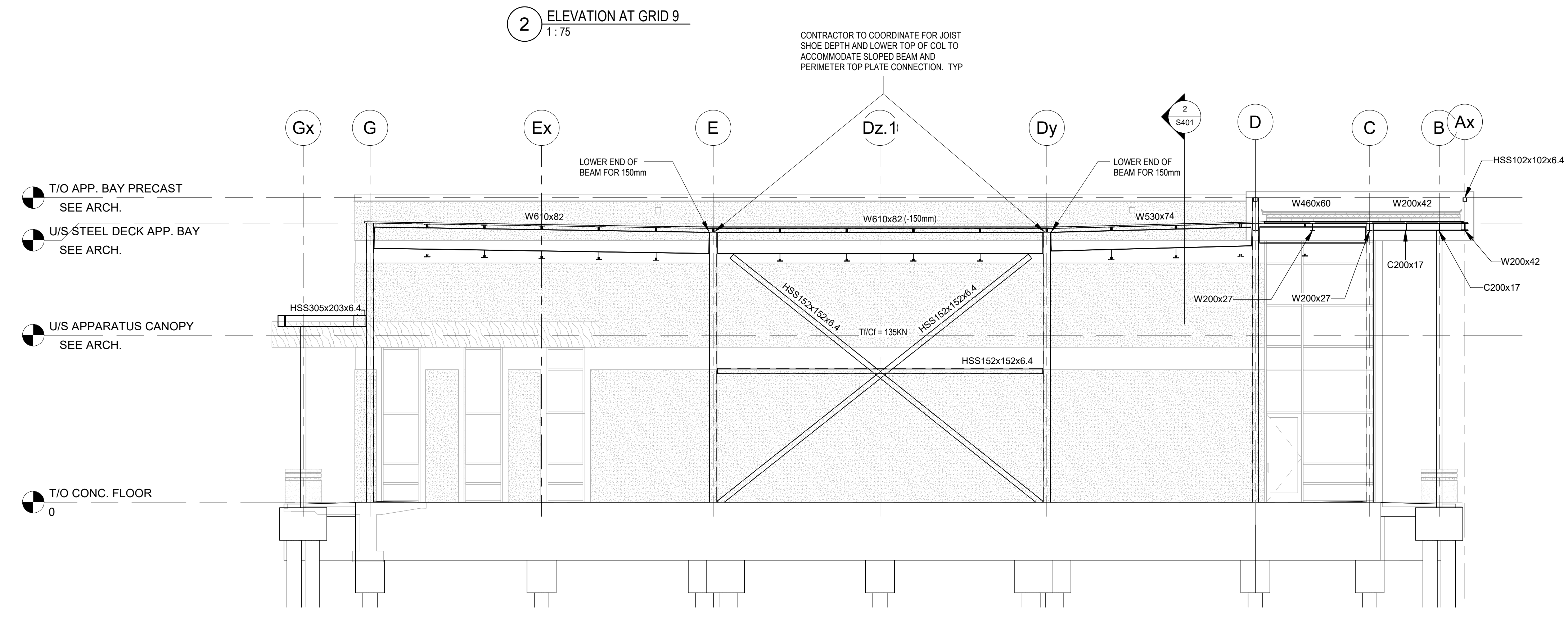


A TYPICAL LOWER END BRACE DETAIL
N.T.S.

T1 = 450KN FOR BRACE BAY AT GRID 'G' AND GRID 'C' AS INDICATED ON PLAN.
T1 = 200KN FOR OTHER BRACE BAYS.



2 ELEVATION AT GRID 9
1:75



3 ELEVATION AT GRID 13
1:75

No.	Description	Date
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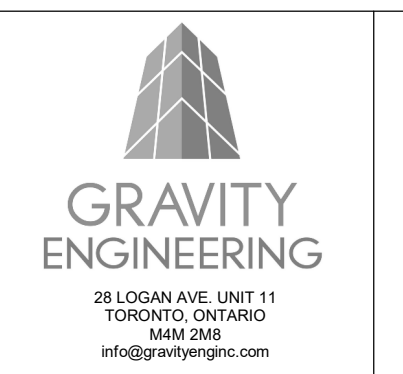
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Scale As indicated

NEW TECUMSETH
FIRE STATION 4

6375 14th LINE, ALLISTON, ONTARIO

ELEVATION AND DETAIL

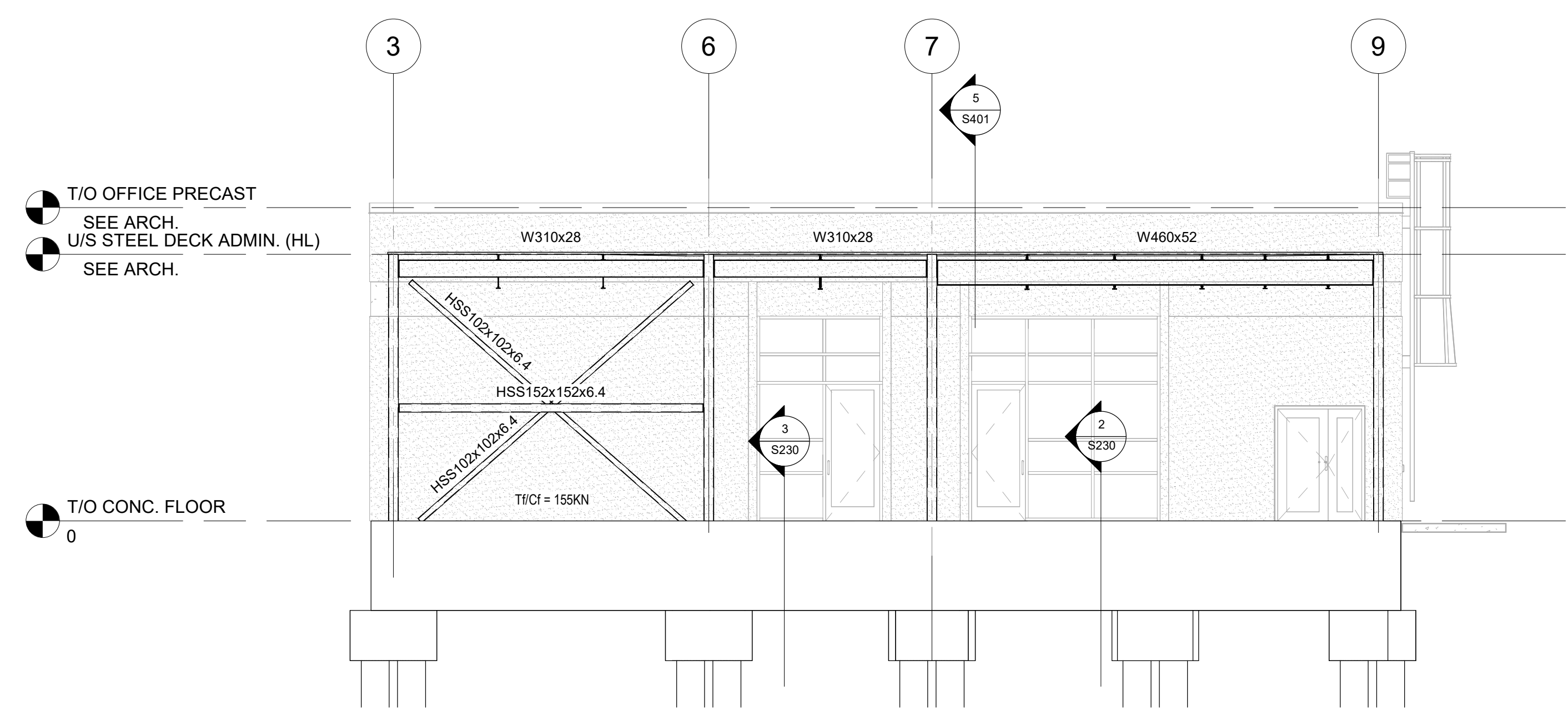


JOB	2019-095	DRAWING	S500
DATE	2023-07-13		

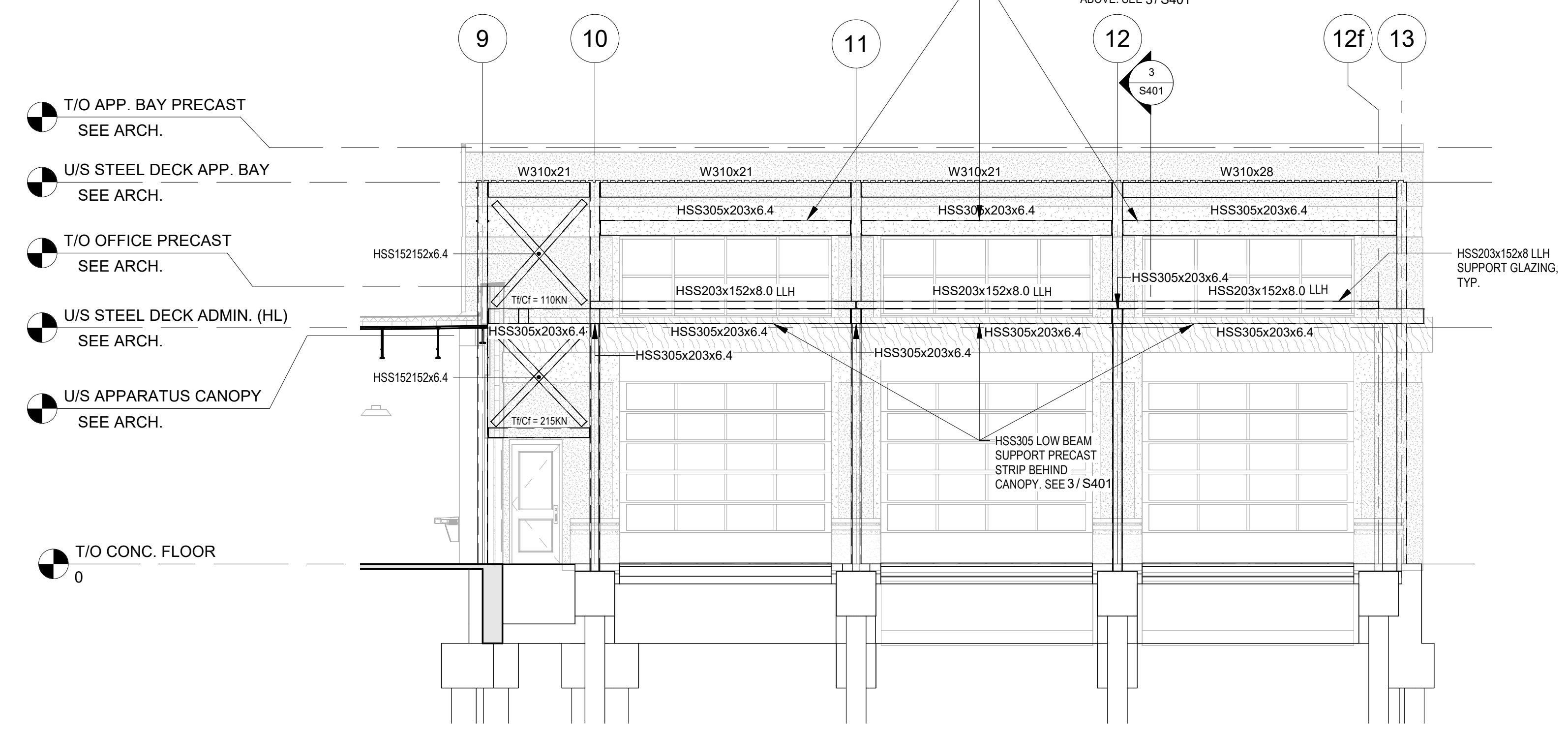
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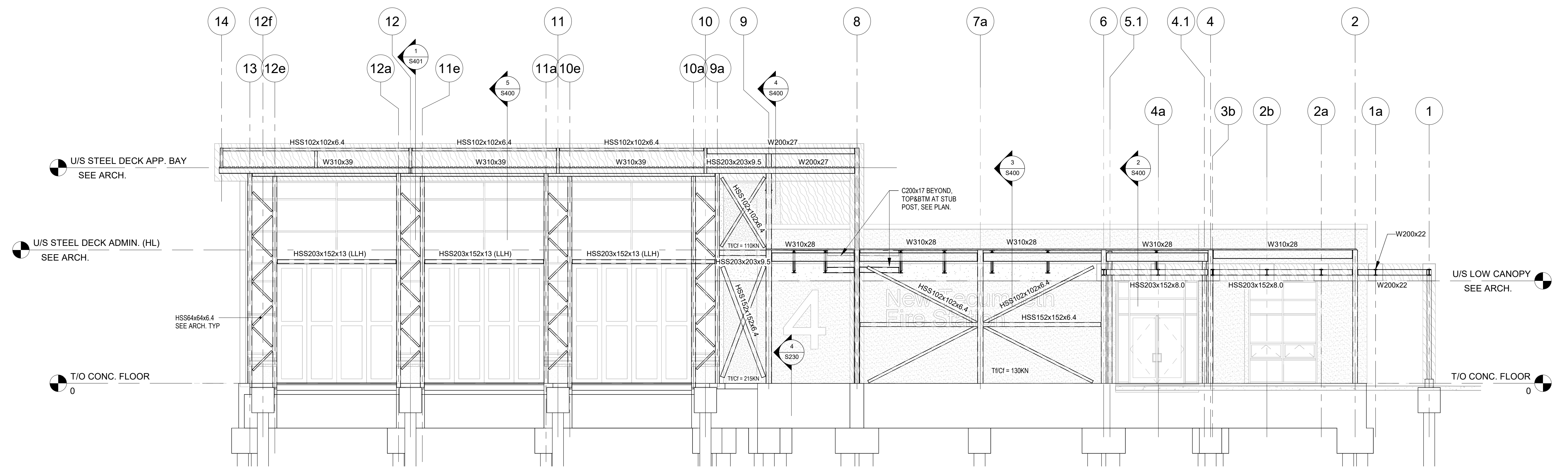
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3 ELEVATION AT GRID H
1:75



2 ELEVATION AT GRID G
1:75



1 ELEVATION AT GRID B
1:75

Scale 1:75
**NEW TECUMSETH
 FIRE STATION 4**

6375 14th LINE, ALLISTON, ONTARIO

ELEVATION AND DETAIL

