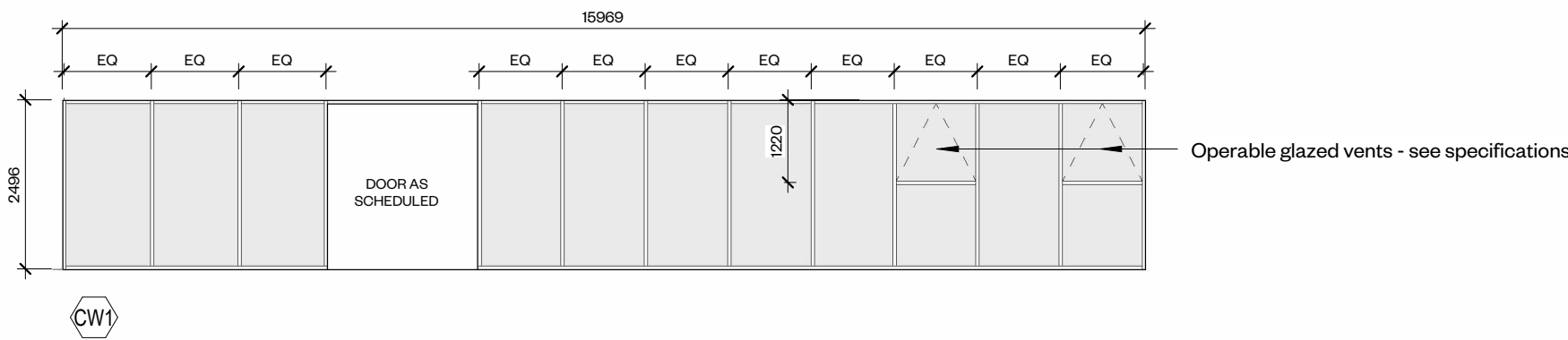
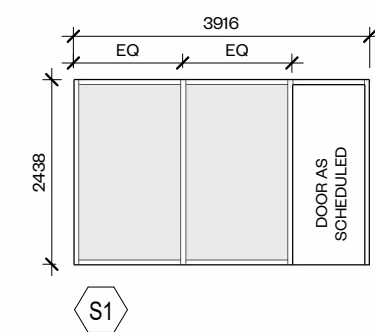


CURTAIN WALL

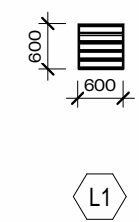


(CW1)

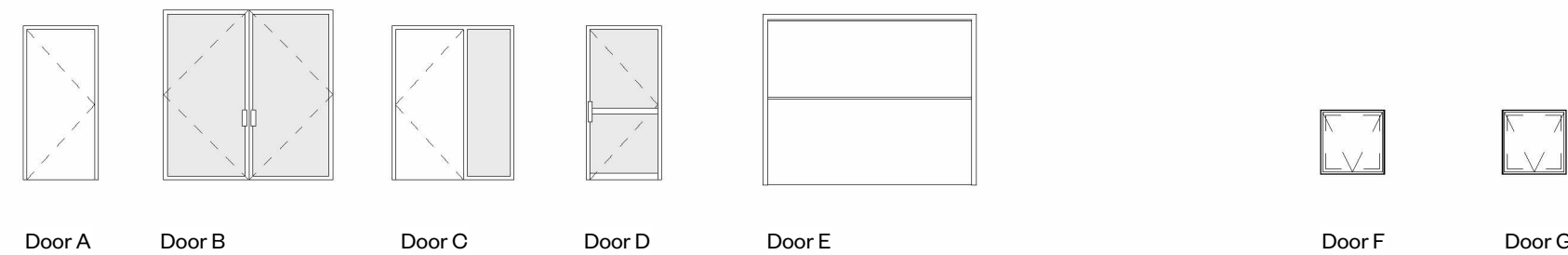
INTERIOR HOLLOW METAL SCREENS



LOUVRE SCHEDULE



DOOR SCHEDULE



Door Schedule										
Door No.	Room	Type Mark	Height	Width	Door Mat'l	Finish	Frame Material	Frame Fin.	FRR	Comments
D100a	Freight Elevator	E	2438	3048	HM	PT	HM	PT	45min	Elevator access door
D100b	Freight Elevator	E	2438	3048	HM	PT	HM	PT	45min	Elevator access door
D101	Elevator Machine Room	A	2134	965	HM	PT	HM	PT	45min	
D102a	Stair A	A	2134	965	HM	PT	HM	PT	45min	
D102b	Stair A	A	2134	965	HM	PT	HM	PT	45min	
D102c	Stair A	A	2134	965	HM	PT	HM	PT	45min	
D103a	Stair B	A	2134	965	HM	PT	HM	PT	45min	
D103b	Stair B	A	2134	965	HM	PT	HM	PT	45min	
D103c	Stair B	A	2082	965	HM	PT	HM	PT	45min	
D104	Pump Room	A	2134	965	HM	PT	HM	PT		
D105	Mezzanine	A	2134	965	HM	PT	HM	PT		
D106	Office	A	2134	965	HM	PT	HM	PT		
D200	Stair B	A	2134	965	HM	PT	HM	PT	45min	
D201a	Mechanical	A	2134	914	HM	PT	HM	PT	45min	
D201b	Mechanical	A	2134	965	HM	PT	HM	PT	45min	
D202	Janitor's Closet	A	2134	965	HM	PT	HM	PT	OHR	
D202a	Electrical	A	2134	965	HM	PT	HM	PT	45min	
D203	Lunchroom	D	2375	965	HM	PT/TGL	HM	HM		
D204	Universal Washroom	A	2134	965	HM	PT	HM	PT		
D205	W/C	A	2134	965	HM	PT	HM	PT		
D206	Corridor	A	2134	965	HM	PT	HM	PT		
D207a	Lounge	O	2134	965	HM	PT	HM	PT		
D207b	Lounge	B	2448	2207	ALUM	ALUM/TGL	ALUM	ALUM		

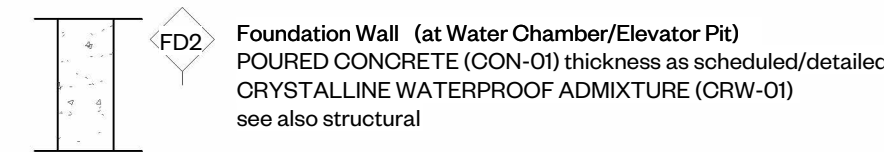
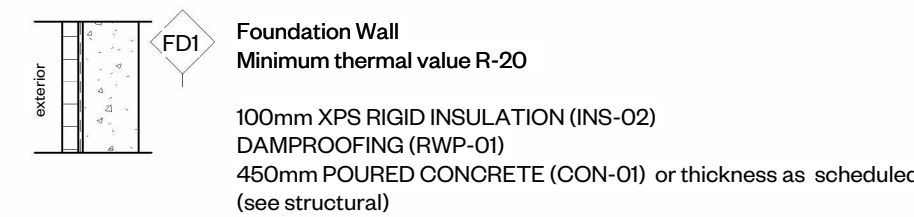
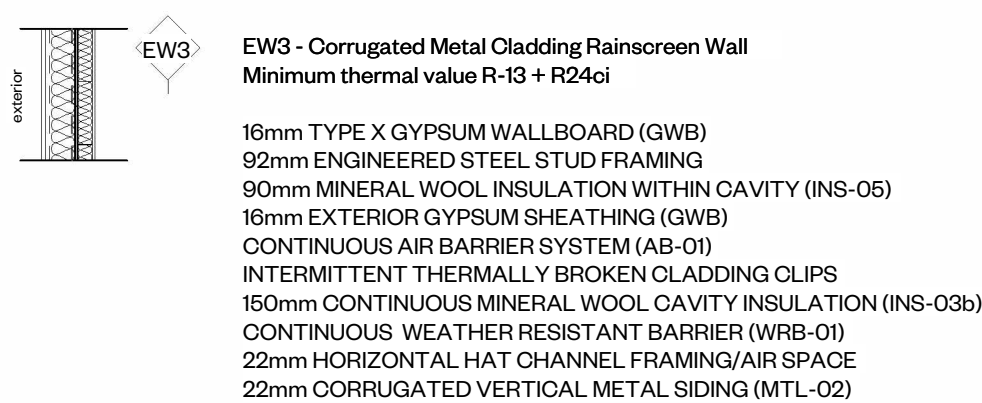
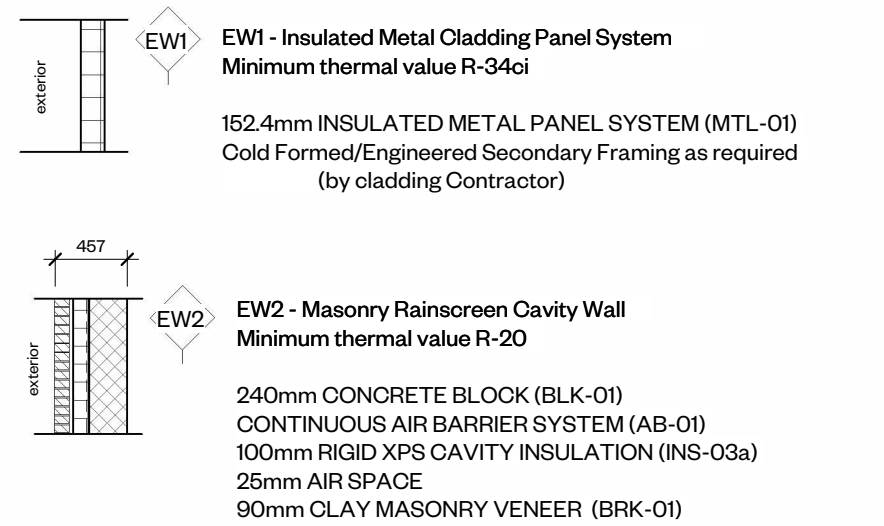
Floor Door Schedule										
Mark	Room	Type Mark	Length	Width	Door Mat'l	Finish	Frame Material	Frame Fin.	FRR	Comments
D104a	Pump Room	F	762	762	ALUM	ALUM/RES	ALUM	ALUM		
D104b	Pump Room	F	762	762	ALUM	ALUM/RES	ALUM	ALUM		
D208	Factory Floor	F	762	762	ALUM	ALUM	ALUM	ALUM		
D300	Roof	G	762	762	ALUM	ALUM	ALUM	ALUM		

WA - Room Finish Schedule						
Room No.	Room Name	Wall Finish	Floor Finish	Base Finish	Ceiling Finish	Comments
100	Freight Elevator	PT	CONC/SLR	-	EXP/PT	
101	Elevator Machine Room	PT	CONC/SLR	-	EXP/PT	
102	Stair A	PT	RES	RB	EXP/PT	
103	Stair B	PT	RES	RB	EXP/PT	
104	Pump Room	PT	CONC/SLR	RB	GWB	
106a	Corridor	PT	OPT	RB	ACT	To match existing
201	Mechanical	PT	CONC/SLR	RB	EXP/PT	
202	Janitor's Closet	PT/CER1	CONC/SLR	CER1	EXP/PT	CER1 to 1200 AFF wall finish
202a	Electrical	PT	CONC/SLR	RB	EXP/PT	
203	Lunchroom	PT	RES	RB	ACT	OER backplash
204	Universal WC	PT/CER1	POR	CER1	ACT	CER1 to 1200mm AFF wall finish
205	WC	PT/CER2	POR	CER2	ACT	CER2 to 2000mm AFF wall finish
206	Corridor	PT	RES	RB	ACT	
207	Lounge	-	CONC/SLR	-	EXP/PT	Unfinished space - primed finish only
208	Factory Floor	EXP	CONC/SLR	-	EXP/PT	
M105	Mezzanine	N/A	RES	N/A	N/A	
M106	Office	PT	EXIST	EXIST	EXIST	

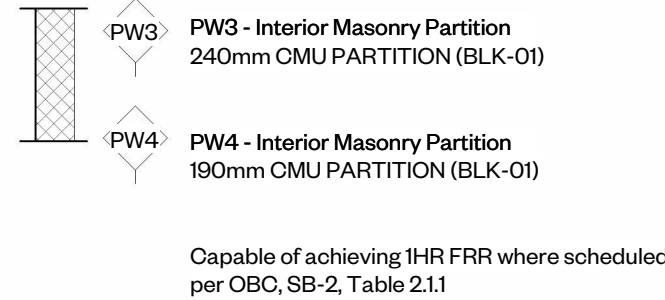
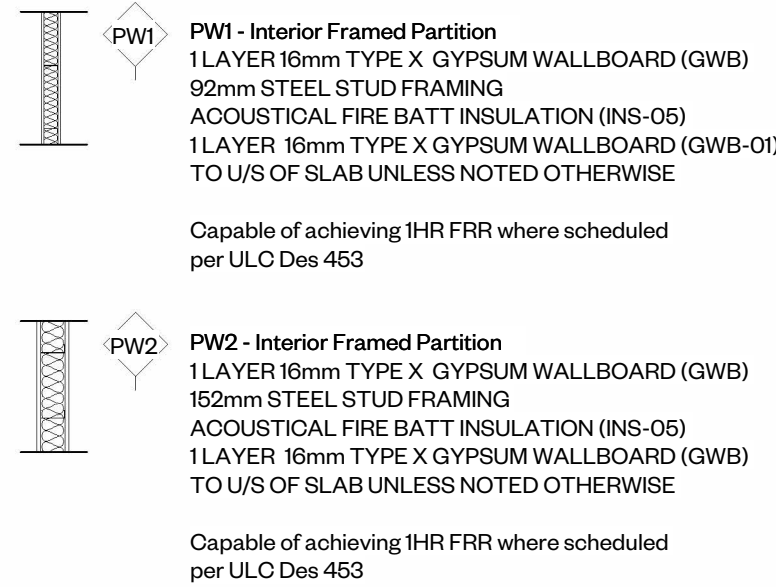
ASSEMBLY SCHEDULE

- USE WATER RESISTANT DRYWALL AT ALL WET AREAS AND AREAS SCHEDULED TO RECEIVE TILE FINISH; PROVIDE ABUSE RESISTANT DRYWALL TO 1200mm AFF AT ALL PARTITIONS - REFER TO SPECIFICATION 09 29 00
- PROVIDE CONTINUOUS PLYWOOD BLOCKING BEHIND ALL MILLWORK CABINETS, SUSPENDED ITEMS, WALL MOUNTED ITEMS ETC.
- ALL INTERNAL PARTITIONS EXTEND TO U/S DECK ABOVE UNLESS NOTED OTHERWISE.
- PROVIDE FIRE RESISTANCE RATINGS AS INDICATED ON DRAWINGS

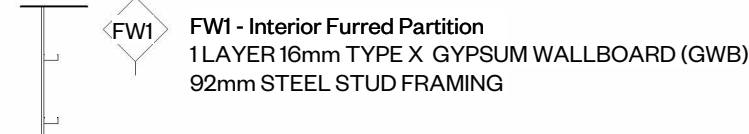
EXTERIOR PARTITIONS



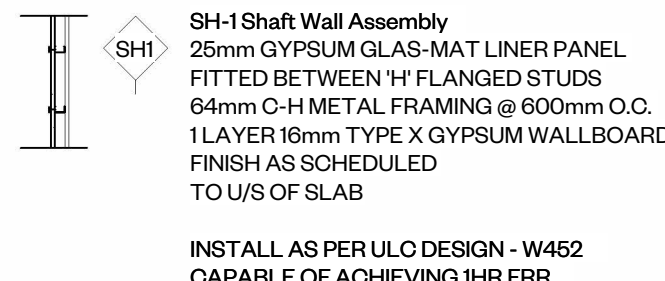
INTERIOR PARTITIONS



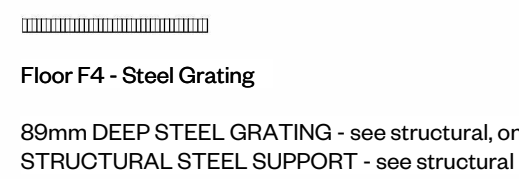
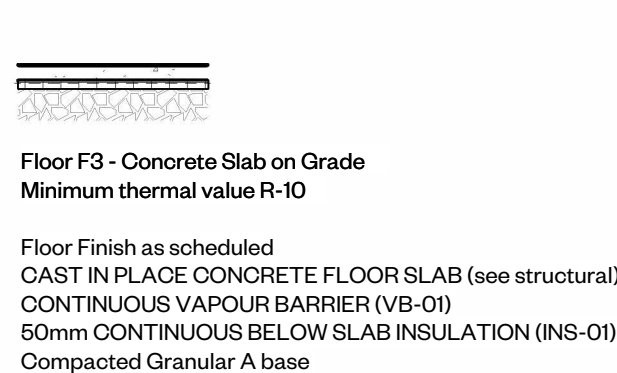
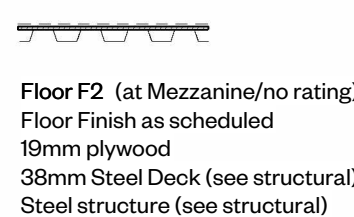
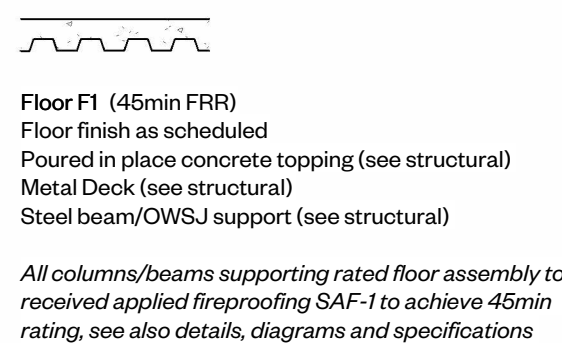
FURRED PARTITIONS



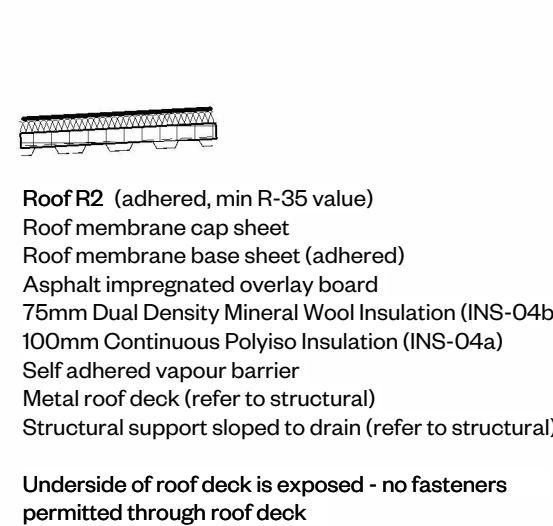
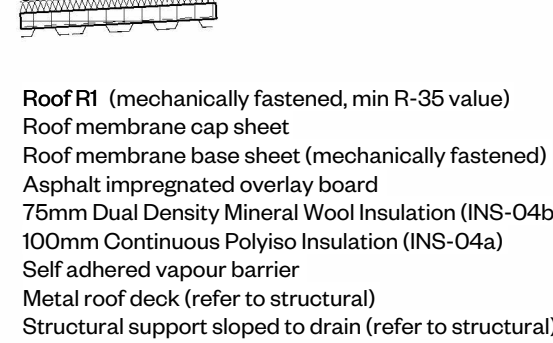
SHAFT WALL ASSEMBLY



FLOOR ASSEMBLY



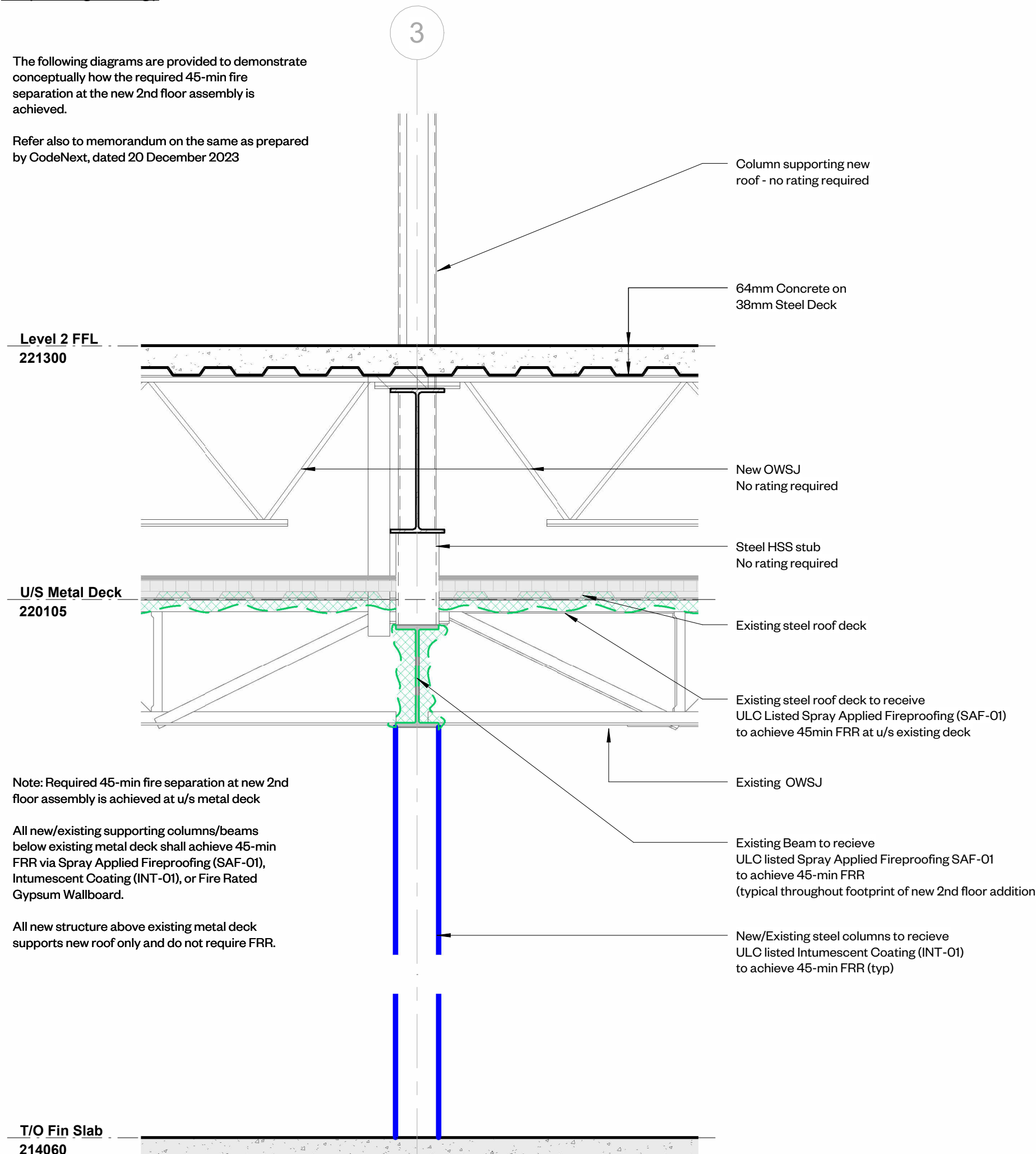
ROOF ASSEMBLY



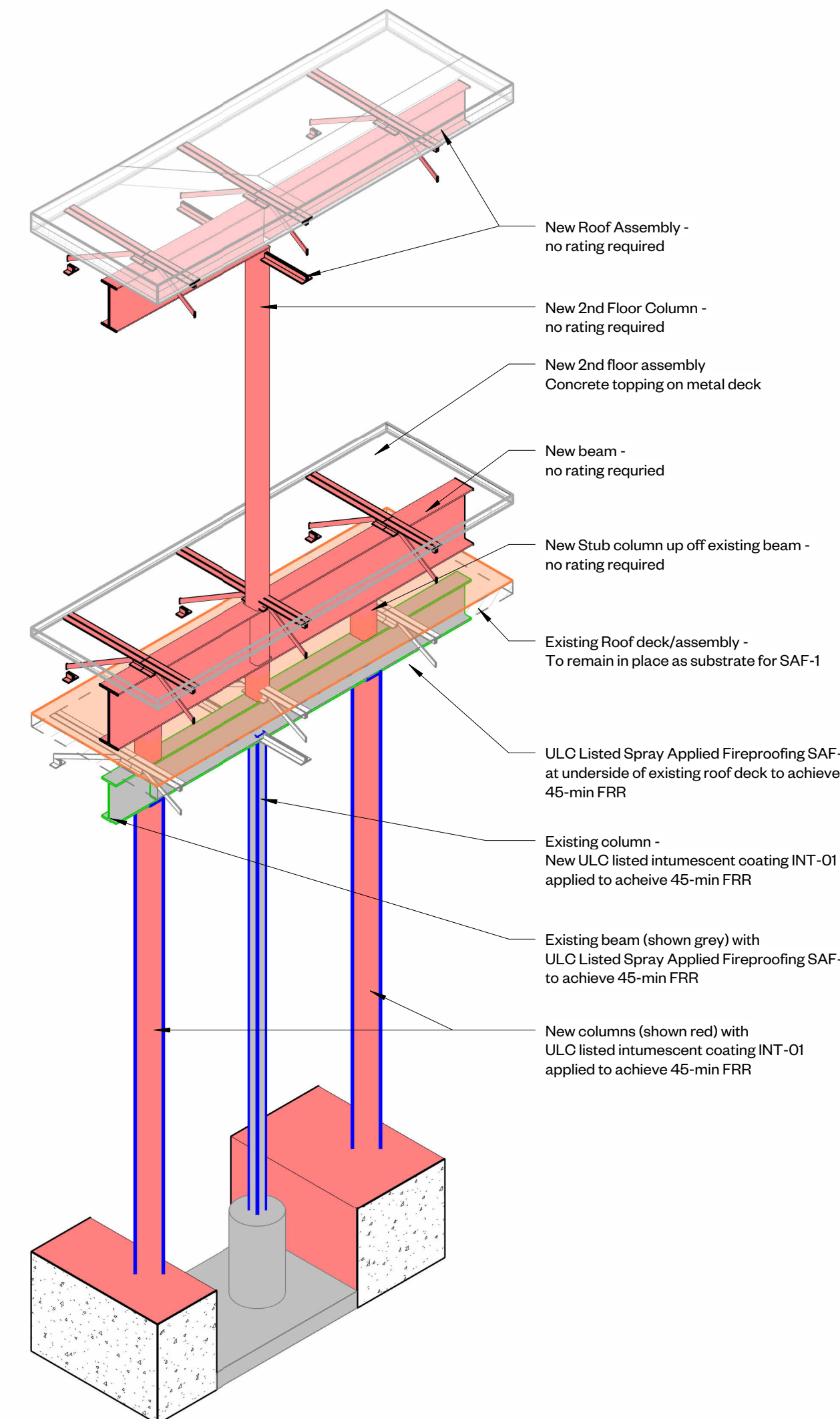
Fireproofing Strategy

The following diagrams are provided to demonstrate conceptually how the required 45-min fire separation at the new 2nd floor assembly is achieved.

Refer also to memorandum on the same as prepared by CodeNext, dated 20 December 2023



1 Fireproofing Strategy - Section
1 : 20



2 Fireproofing Strategy - Axonometric
1 : 20

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Materials Legend

AB	Air Barrier Membrane
ACT	Acoustic Ceiling Tile
ALUM	Aluminum
BLK	Block (CMU)
BRK	Brick
CER	Ceramic Tile (01, 02, etc)
CG	Corner Guard
CON	Concrete
CPT	Carpet
CRW	Crystalline Waterproofing
EPO	Epoxy Paint
EXIST	Existing
EXP	Exposed
GR	Guardrail (01, 02, etc)
GWB	Gypsum Wallboard
HR	Handrail (01, 02, etc)
INS	Insulation (01, 02, etc)
MIR	Mirror
MTL-01	Insulated Metal Cladding Panel
MTL-02	Metal Cladding
PB	Push Button
PLY	Fire Rated Plywood
POR	Porcelain Tile (01, 02, etc)
PC	Polished Concrete
PLAM	Plastic Laminate
PT	Paint Finish
QTZ	Quartz
RB	Rubber Base
RES	Resilient Sheet Flooring
SLR	Concrete Sealer
SS	Stainless Steel
TGL	Tempered Glass
VB	Vapour Barrier
WD	Solid Wood
WP	Wall Protection Rail
WRB	Weather Barrier
WV	Wood Veneer

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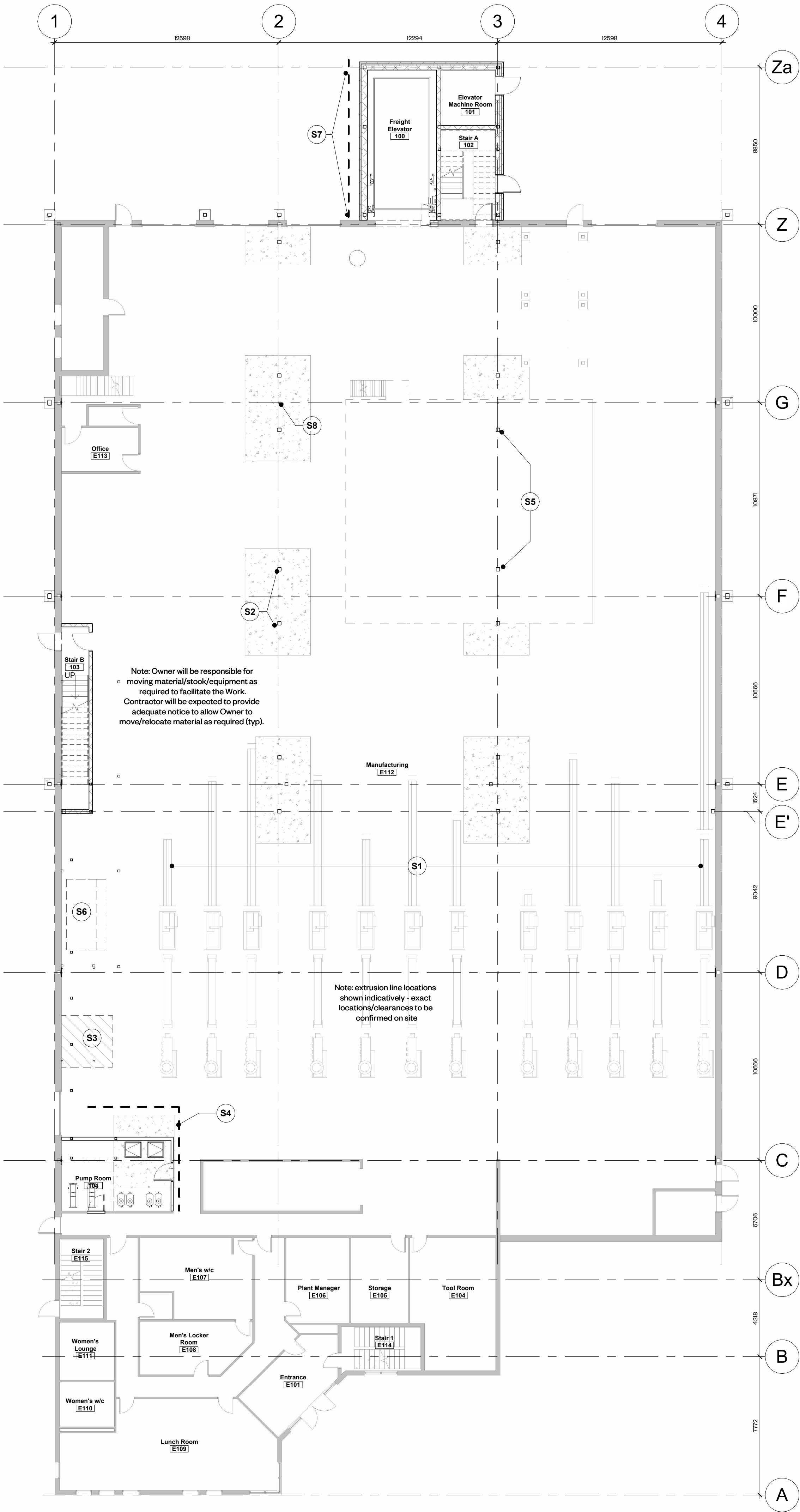
56 Edilcon Drive, Concord, ON
L4K 3S6

PROJECT CODE :	SCALE :
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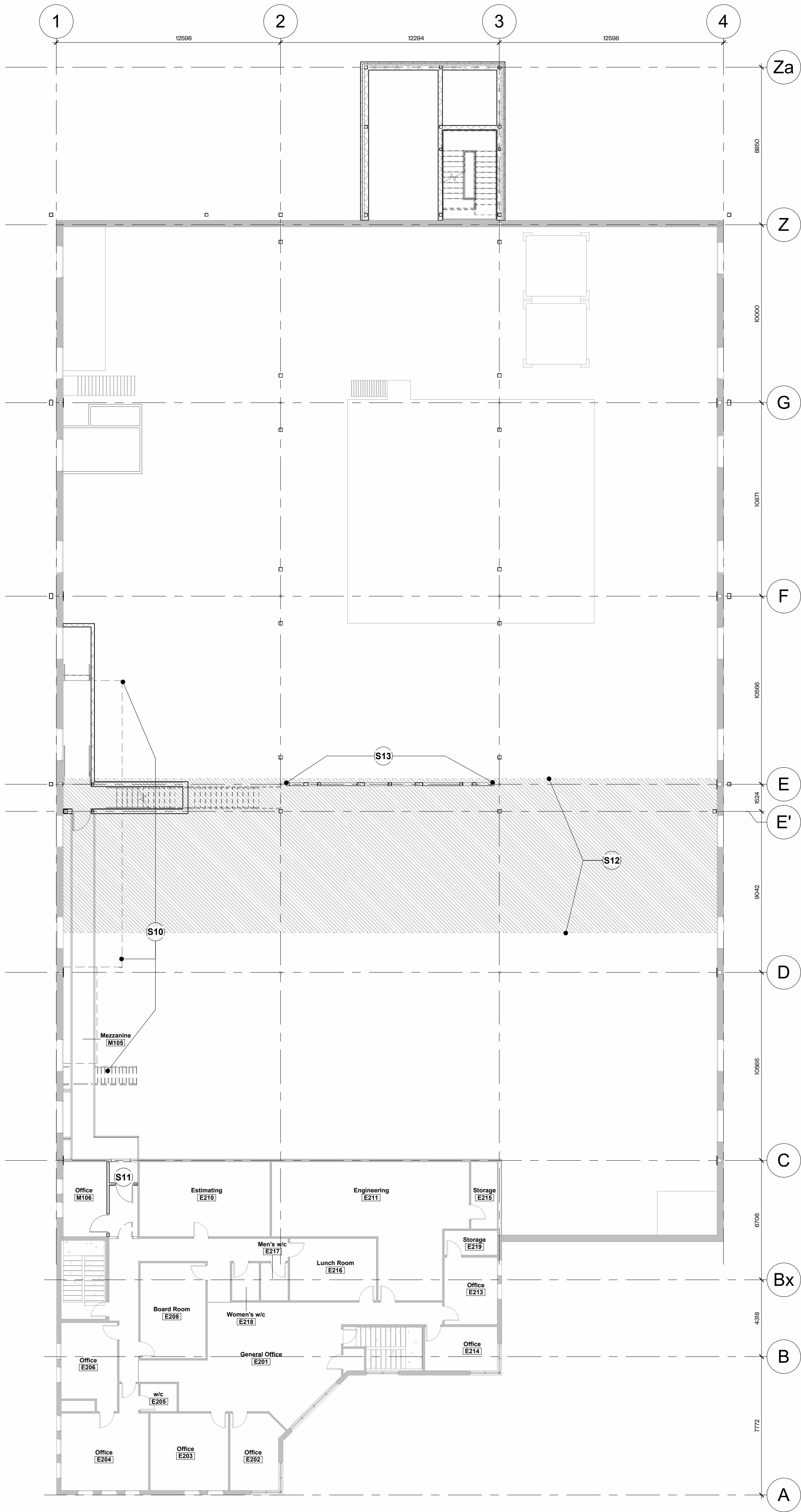
Schedules

drawing number

A0.1



① Level 1 - Phasing
1 : 150



② Mezzanine - Phasing
1 : 150

Sequencing of the Work and Temporary Work Requirements

56 Edilcan Drive will remain both fully occupied and operational throughout the entire duration of the Work. The notes below are intended to provide general context for Work sequencing requirements necessary to allow Owner's operations to continue; it is not intended to be an exhaustive list. Scheduling/sequencing of Work remains the Contractor's responsibility.

Contractor shall take all appropriate measures to allow manufacturing operations to continue throughout normal working hours. Normal working hours are from 6am Mondays - 6am Fridays (24 hours per day).

Contractor shall be responsible for all Temporary Work necessary to maintain both safe access to exiting and Owner's ongoing fabrication/production operations, including but not limited to hoarding, dust proof partitions, signage and temporary utilities.

All services shall remain operational during normal working hours. Interruptions to services shall be agreed with the Owner in advance and shall be scheduled outside of normal working hours. If a shutdown is required during normal working hours, temporary services shall be put in place at no additional cost to the Owner which allow fabrication/production to continue.

Refer also to Specification Division 1 for additional information on Work restrictions and Temporary requirements.

Sequencing Notes	
Note	Description
S1	Existing extrusion lines shall remain operational during regular working hours (including but not limited to, provision of required electrical power, chilled water supply, drainage and compressed air)
S2	All new structural work, including below grade foundations, installation of new structural members/reinforcement of existing structural members shall not impede Owner's production/operations during normal working hours (typical).
S3	Existing chiller/chilled water tank shall remain functional/operational until such time as new chiller/chilled water tank has been commissioned. Transition from existing chilled water system to new system shall be scheduled outside of normal working hours.
S4	Provide shoring as required to limit extent of excavation at new below slab water chamber to maintain working clearance around adjacent extrusion lines for safe production and exiting
S5	Existing mezzanine is used for storage. Contractor shall be responsible for dismantling/modifying/reinstating mezzanine, including services mounted at underside, as required to install new structure.
S6	Suggested temporary location for existing chiller during construction of below slab water chamber (exact location to be coordinated on site). Contractor shall be responsible for re-routing all required service connections to allow existing chiller to support production, until such time as new chiller has been installed/commissioned
S7	Provide temporary shoring during foundation excavation as required to maintain access to overhead loading doors
S8	Existing column to be reinforced and fire rated (typ between Grids 3/4 and E/Z - refer to structural). All existing column mounted services shall be removed/reinstated as required, while maintaining Owner's operations during normal working hours. See also mechanical/electrical drawings.
S10	Note: compressors/pumps/equipment serving existing interior chiller are located on mezzanine. Compressors shall remain operational until new chiller has been commissioned
S11	Minimum 2-week notice required prior to making mezzanine connection through existing office
S12	New steel structure and/or reinforcing of existing OWSJ required through this area. All existing services shall be re-routed as required to carry out structural work - refer also to structural and mechanical/electrical drawings.
S13	New diagonal steel bracing from 3581mm AFF to u/s existing first floor structure (refer to structural). Remove/reinstate services as required for installation of new bracing - refer also to Mechanical/Electrical drawings.

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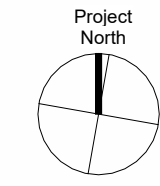
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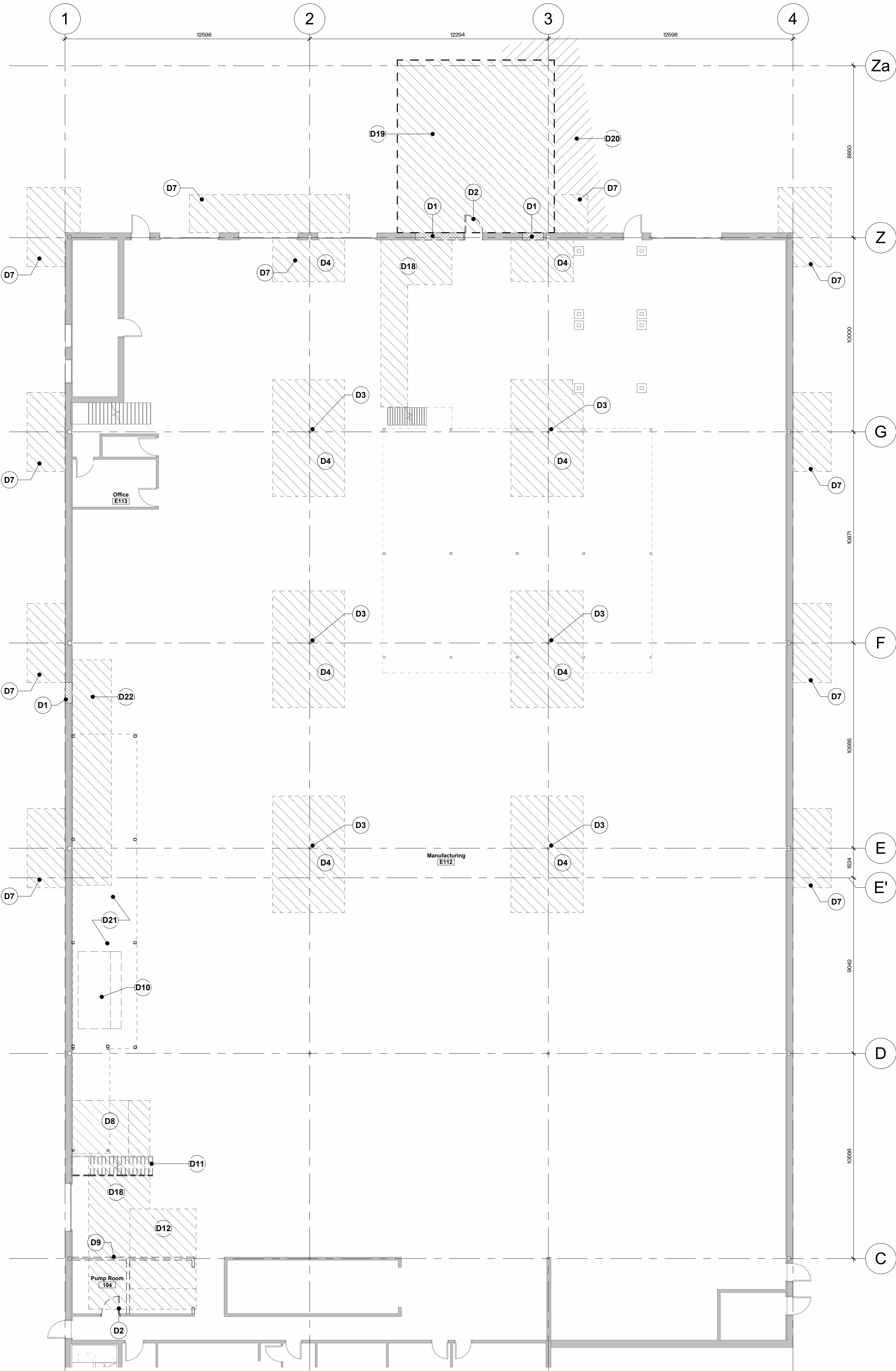
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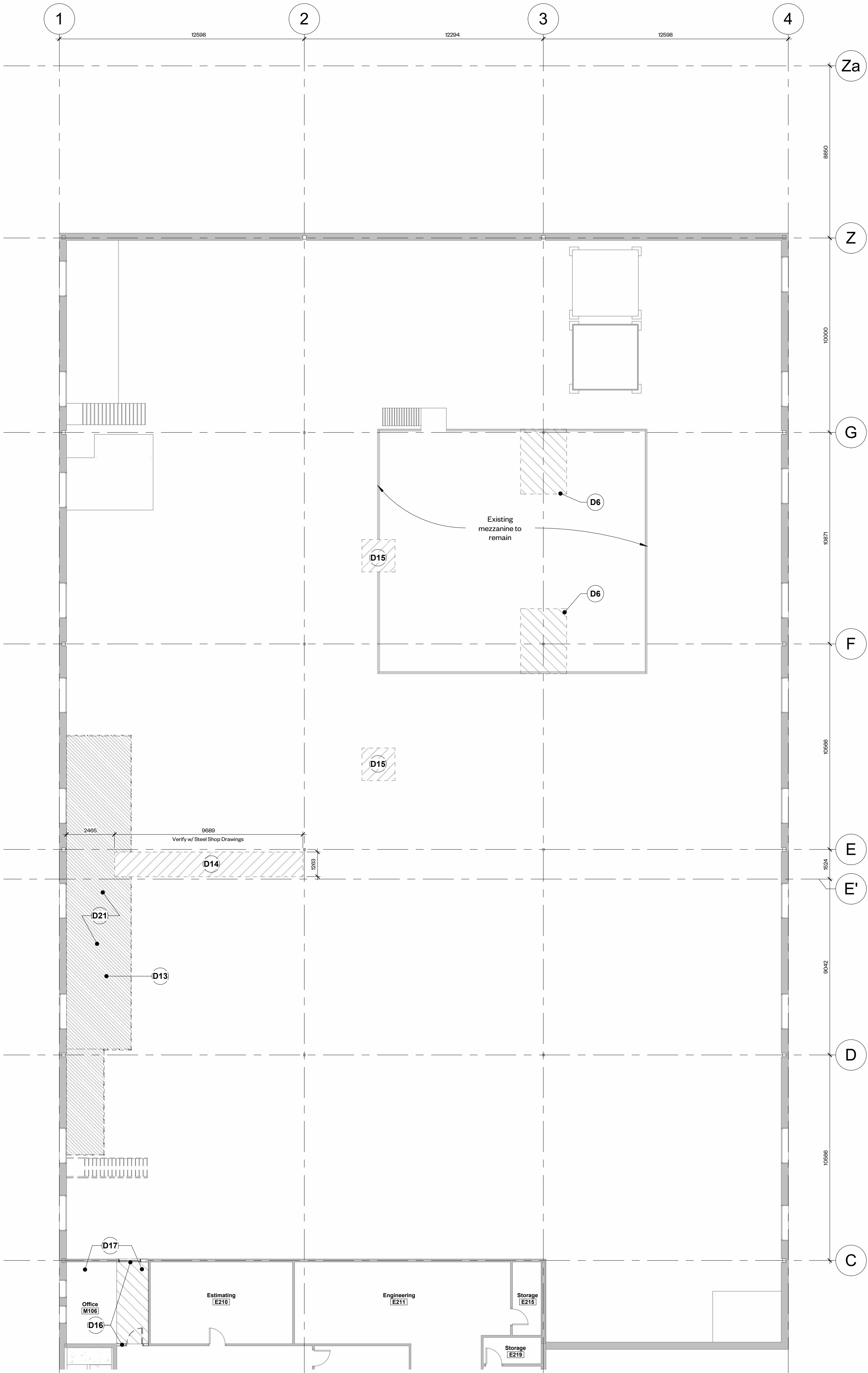
Sequencing Requirements



drawing number
A0.2



① Level 1 - Existing
1 : 125



② Mezzanine - Existing
1 : 125

Hatch Legend

- Below grade demolition area
- Above demolition area
- Mezzanine demolition area

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Demolition Notes	
Note	Description
D1	Demolish existing masonry wall exterior wall. Patch and make good surrounding finishes
D2	Demolish existing door and frame. Patch and make good surrounding finishes
D3	Demolish existing column - refer to Structural
D4	Out and remove existing floor slab and remove existing footing. Prepare to accept new concrete footing.
D6	Demolish existing overhead garage door. Patch and make good surrounding finishes
D6	Locally demolish and reinstate existing steel mezzanine to accommodate erection of new steel columns
D7	Excavate along exterior perimeter of the building to accommodate new columns and footings
D8	Demolish existing floor to infill existing below-grade water tank & modify existing pipework as required. See mechanical
D9	Demolish existing interior wall. Patch and make good surrounding finishes
D10	Existing 50-ton chiller to be temporarily relocated during construction - see also Sequencing Plan
D11	Existing mechanical mezzanine stair to be demolished
D12	Demolish slab and excavate for new water chamber
D13	Existing mechanical equipment on service mezzanine to be relocated - see mechanical
D14	Approximate extent of roof deck to be demolished to accommodate new stair - verify with steel shop drawings/details
D16	Demolish existing skylight, prep opening to receive new metal deck
D16	Demolish wall to 2350mm AFF. C/W door, frame & screen
D17	Demolish existing ACT ceiling for new link, re-work existing ACT ceiling at Office 106 to suit
D18	Out and remove existing floor slab as required to accommodate new below-grade Mechanical work. See Mechanical
D19	Extent of excavation
D20	Area to be regraded - see Level 1 Proposed
D21	Demolish existing steel mezzanine and all associated structure and supports. Patch and make good surrounding finishes
D22	Out and remove existing floor slab as required to accommodate slab thickening. See Structural

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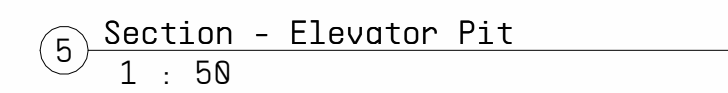
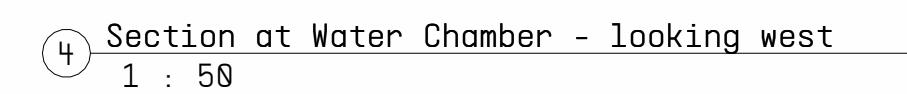
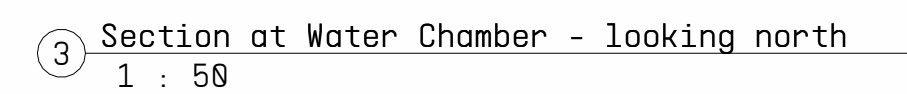
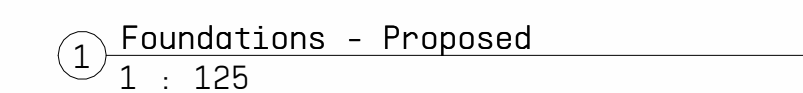
PROJECT CODE:	SCALE:
22_31	1:125
DATE:	STATUS:
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Plans - Demolition

Project North

drawing number

A1.0



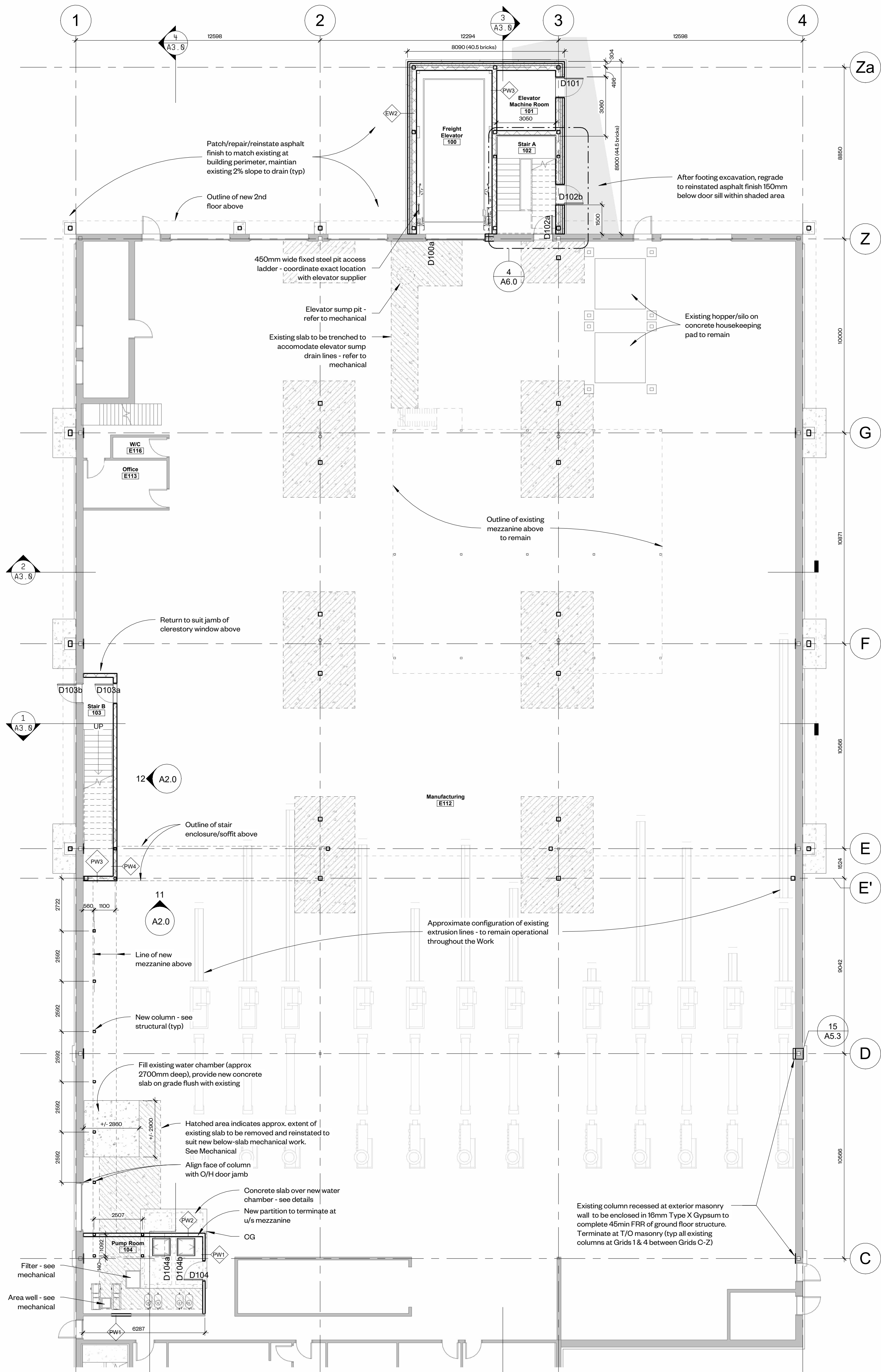
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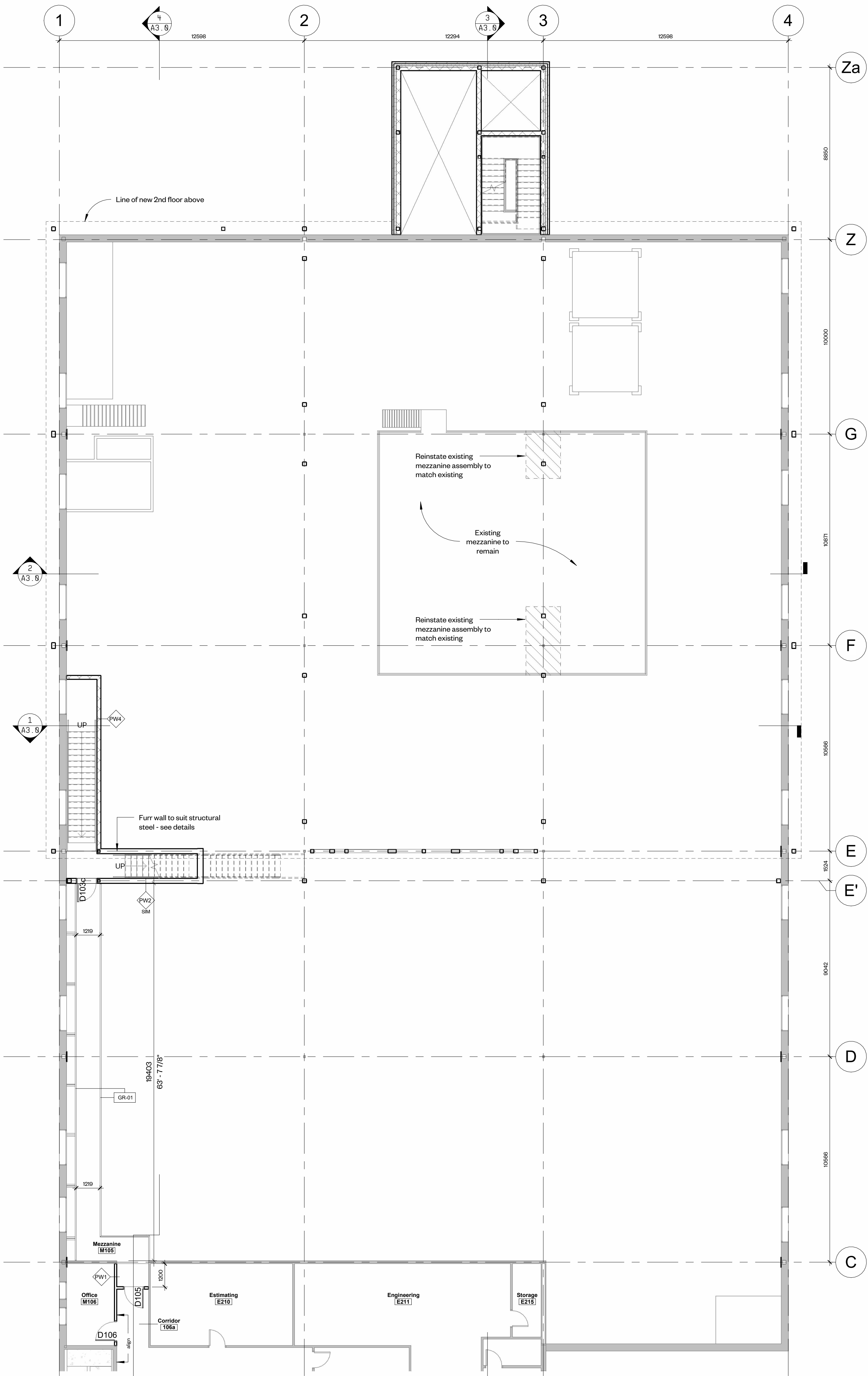
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Foundation Plans - Proposed

A1.1



① Level 1 - Proposed
1 : 125



② Mezzanine - Proposed
1 : 125

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Legend

- Existing partition to remain
- New partition as scheduled

Symbols Legend

- PWX Partition Tag - refer to partition schedule
- EWX Exterior Wall Tag - refer to partition schedule
- WX Window tag - refer to schedule
- SX Glazed Screen tag - refer to schedule
- DXX New Door tag - refer to schedule
- MW1 Millwork Tag
- GWB Ceiling Material Height above Finished Floor
- (E) Existing
- N.I.C. Not in Contract

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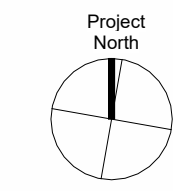
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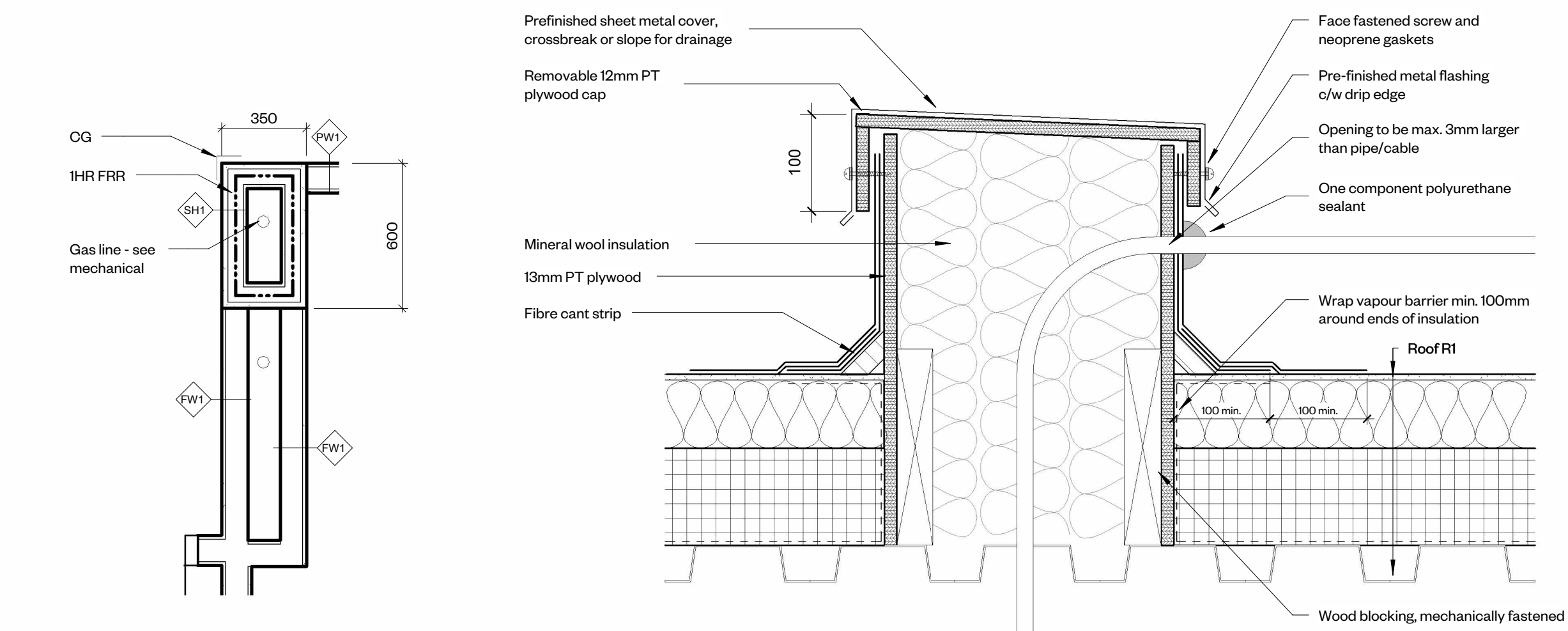
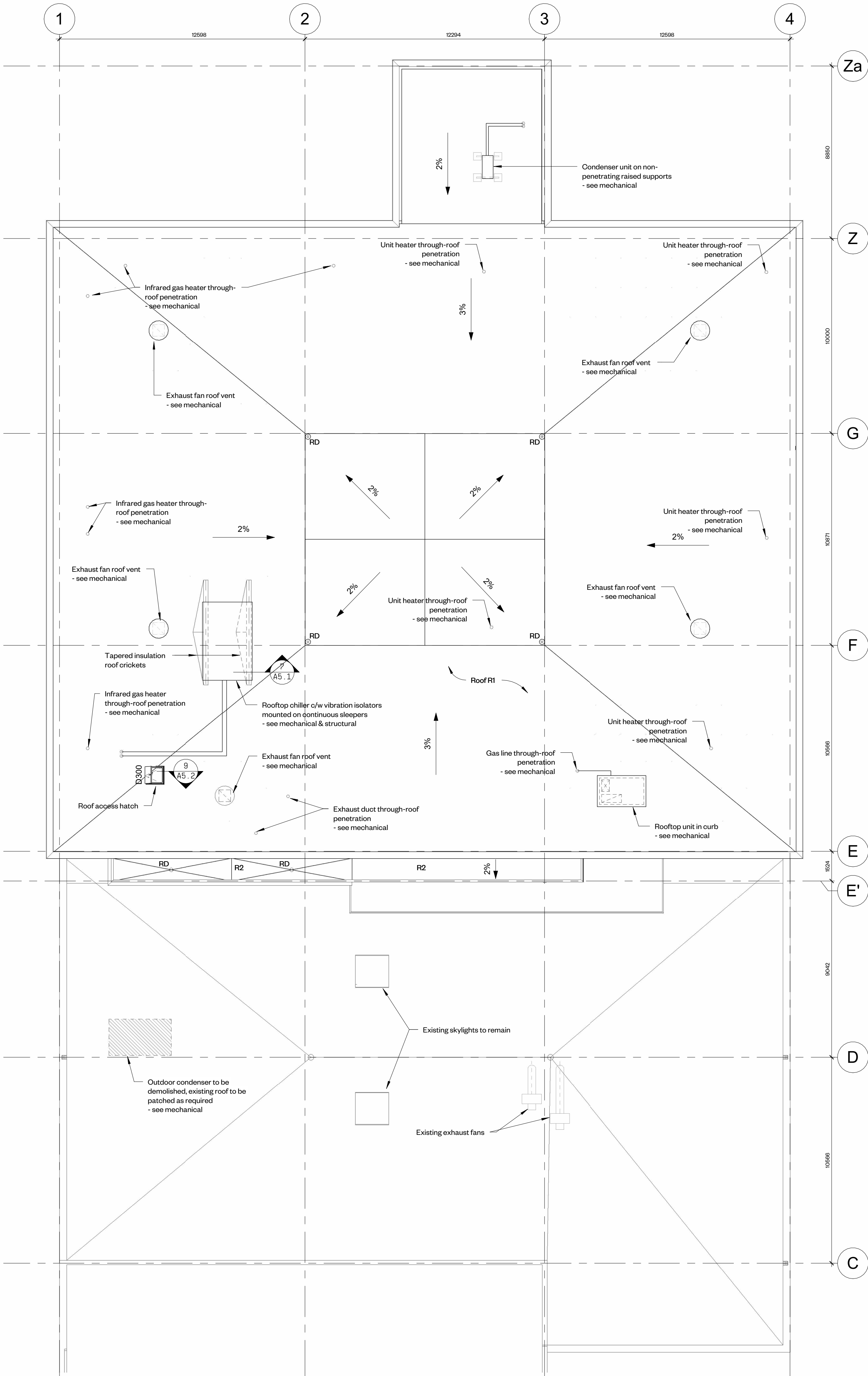
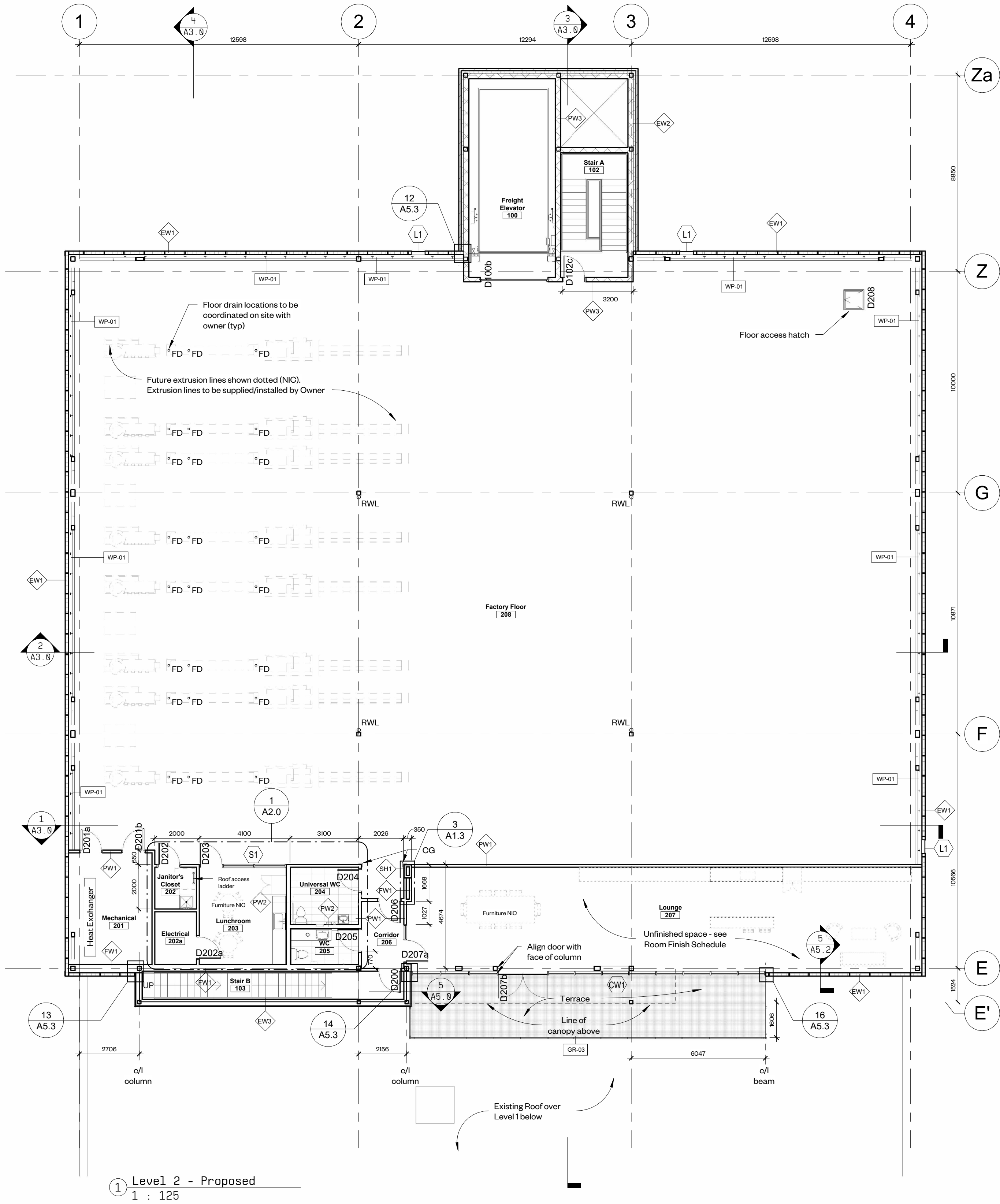
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Ground & Mezzanine Plans - Proposed



drawing number

A1.2



③ Level 2 - Shaftwall Detail
1 : 20

④ Roof Detail - Pipe/Wiring Doghouse
1 : 5

② Roof - Proposed
1 : 125

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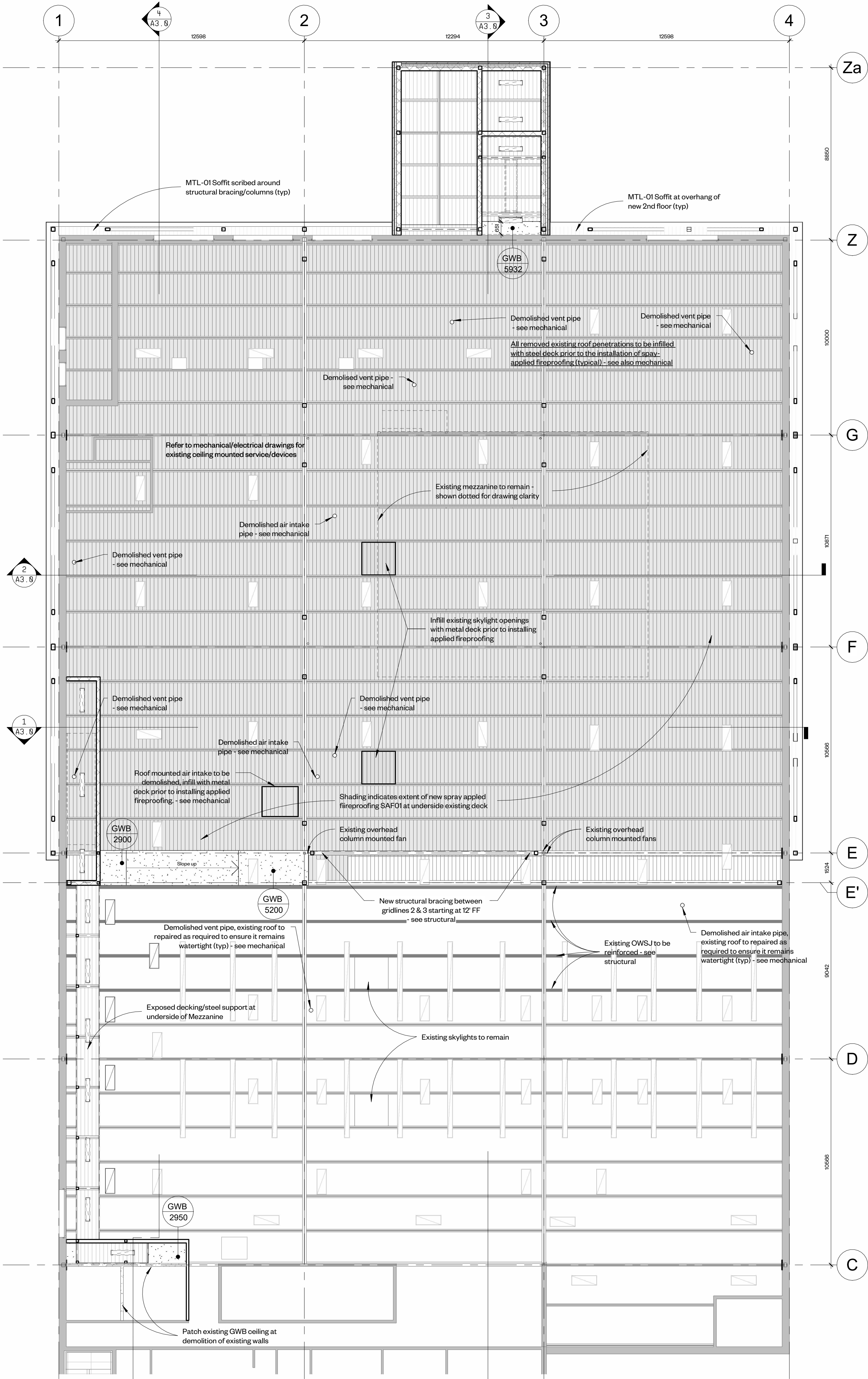
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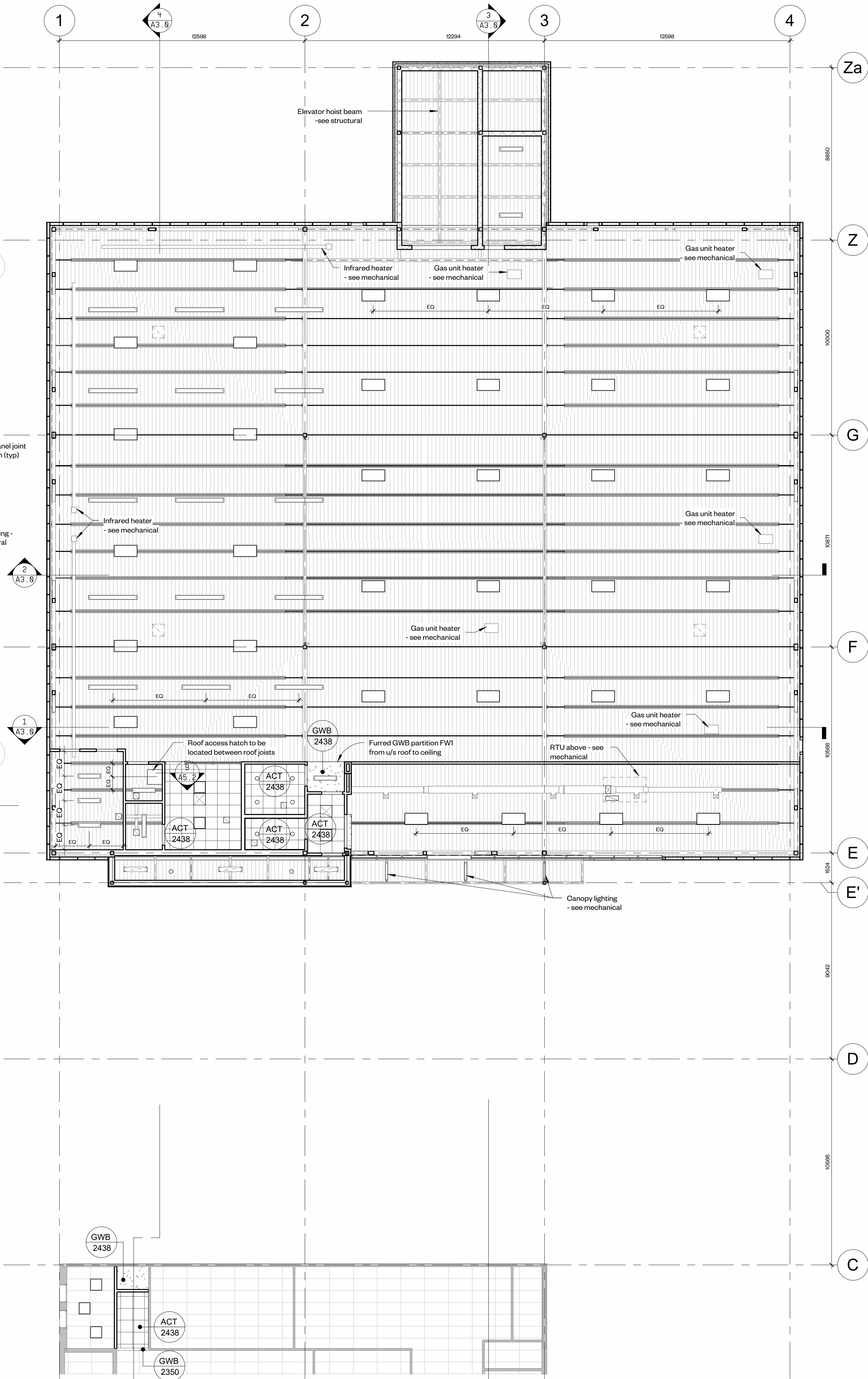
PROJECT CODE:	SCALE:
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2nd Floor & Roof Plans - Proposed





① Level 1 - RCP Proposed
1 : 125



② Level 2 - RCP Proposed
1 : 125

③ Detail RCP - Soffit
1 : 50

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11	Issued for Tender	04 Mar 24

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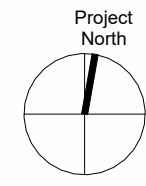
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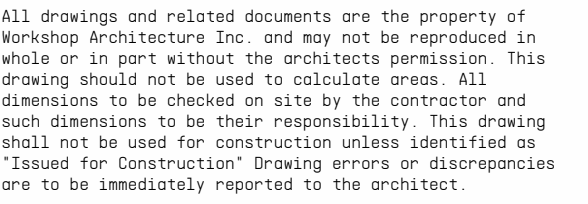
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Ceiling Plans - Proposed



A1.4



Rev	Description	Date
10	Issued for BP	16 Feb 24
11	Issued for Tender	04 Mar 24

Millwork Hardware Legend

Adjustable shelf pins/ferrules: Richelieu #2291180, nickel finish

Bumpers (2 each per door): Richelieu 3M (Peel & Stick)

Cabinet/Drawer Pulls: Richelieu Catalogue 6211
#BP6211128195, brushed nickel

Concealed hinges: Blum Blumotion 110 degrees

20694170

Steel Roller Glides at 150mm drawers: Accuride # 2037 Full Extension

Steel Roller Glides at 233mm drawers: Accuride # 3641 Full Extension

Soft close mechanism at all drawers: Richelieu
BP97309910

Waste drawer: Aluminum Bottom Mount Waste Container w/Soft-Close by Rev-a-shelf, 5349 series, door mountable, 2 waster containers

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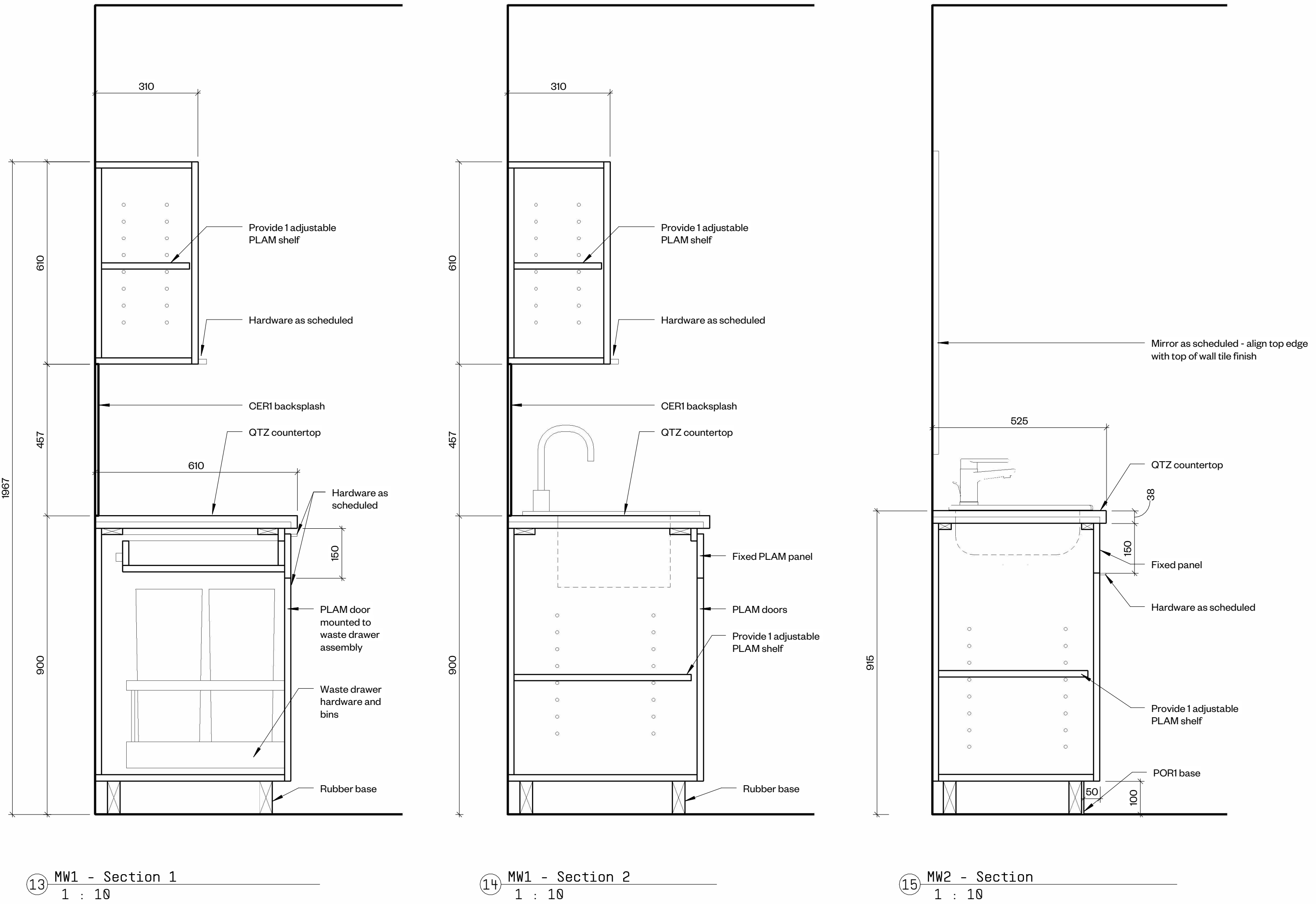
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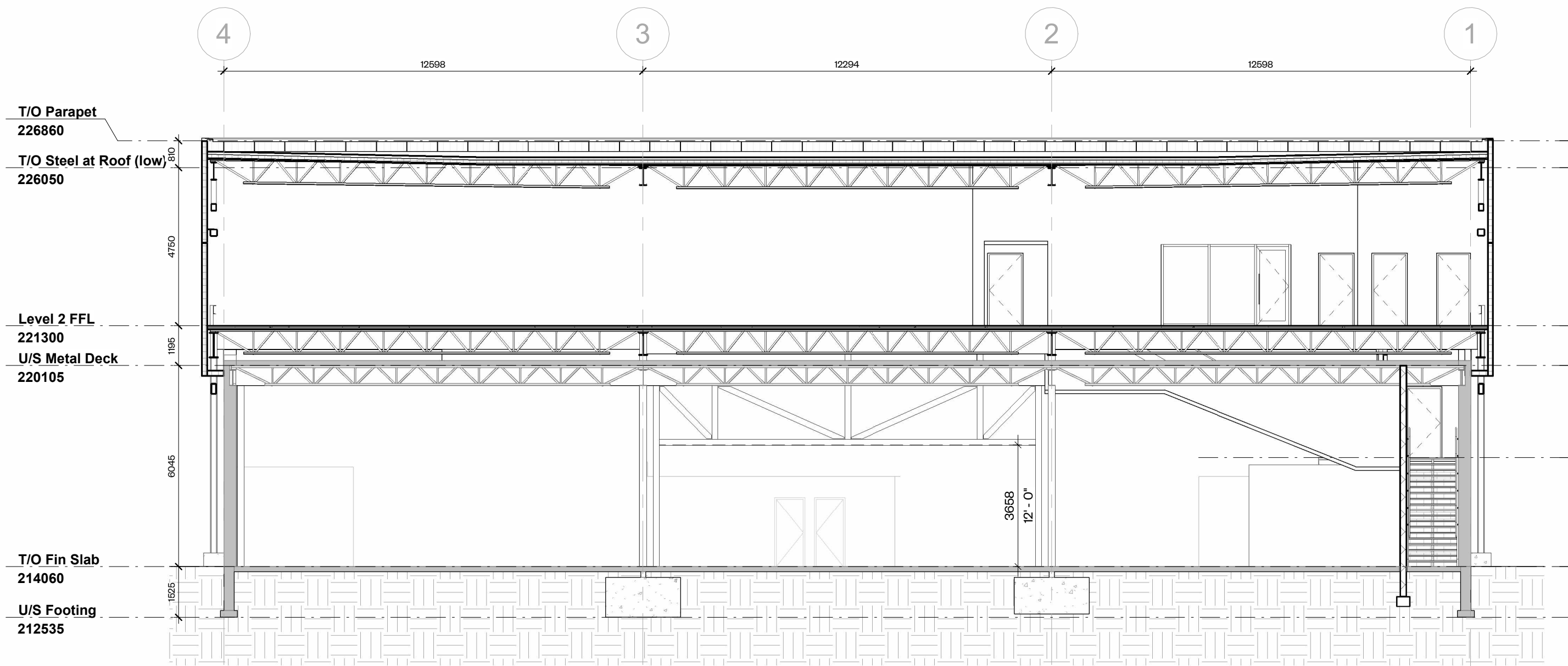
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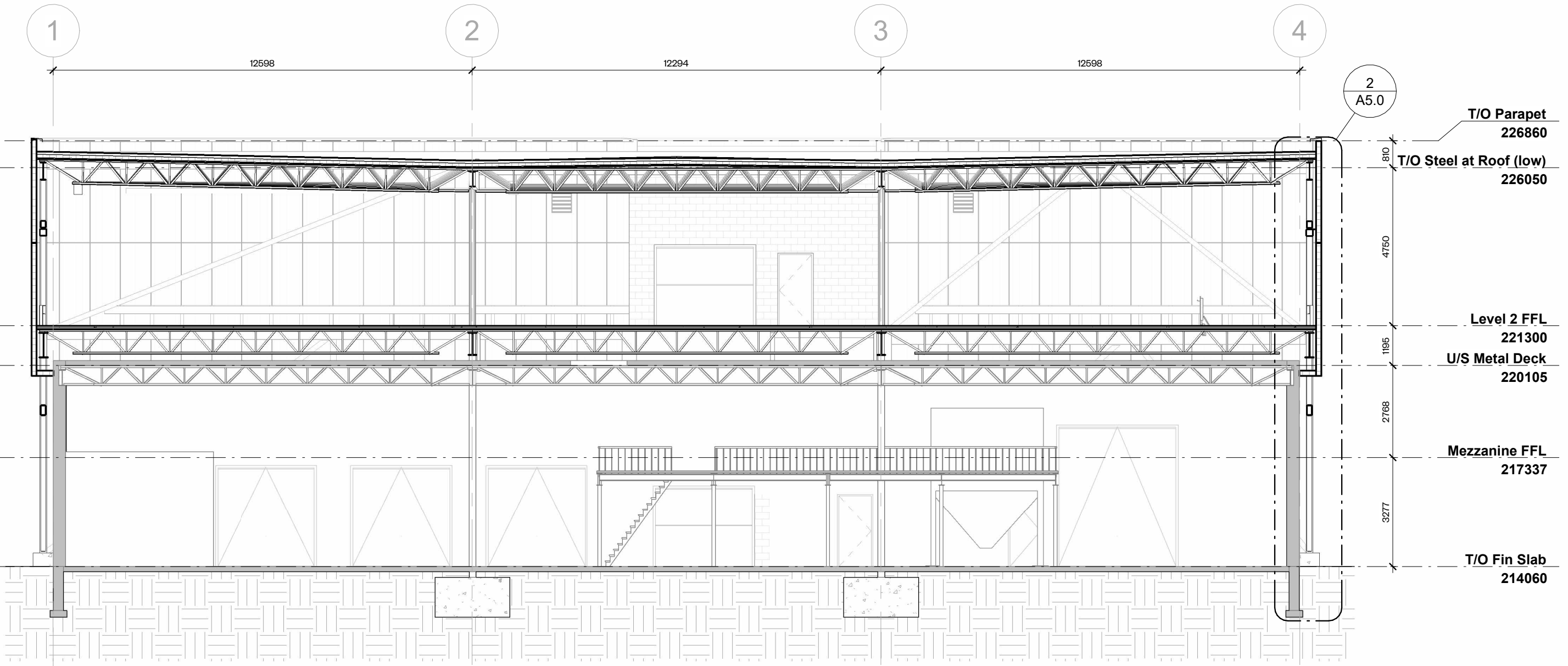
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Detailed Plans, Interior Elevations & Millwork Details

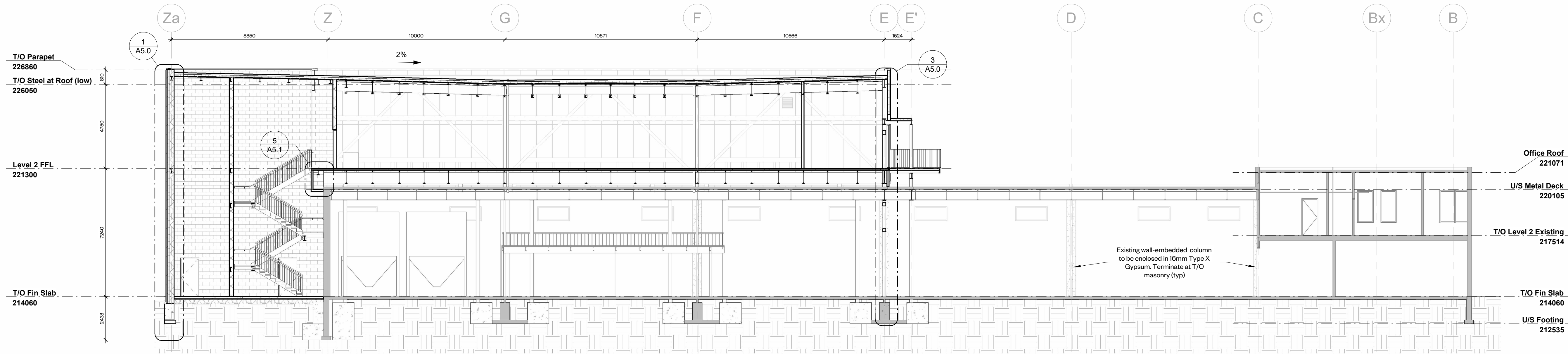




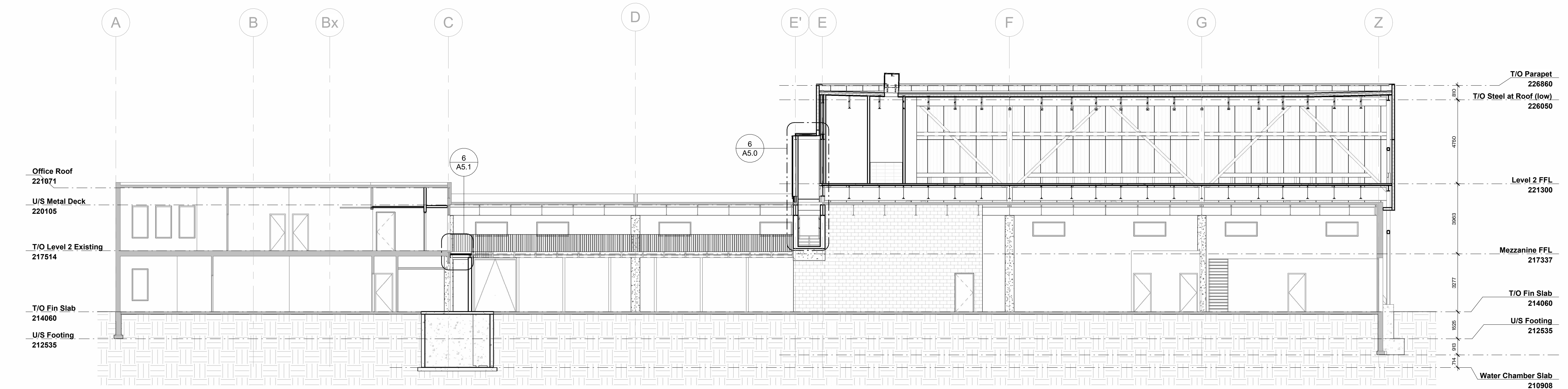
① South Building Section
1 : 125



② North Building Section
1 : 125



③ East Building Section
1 : 125



④ West Building Section
1 : 125

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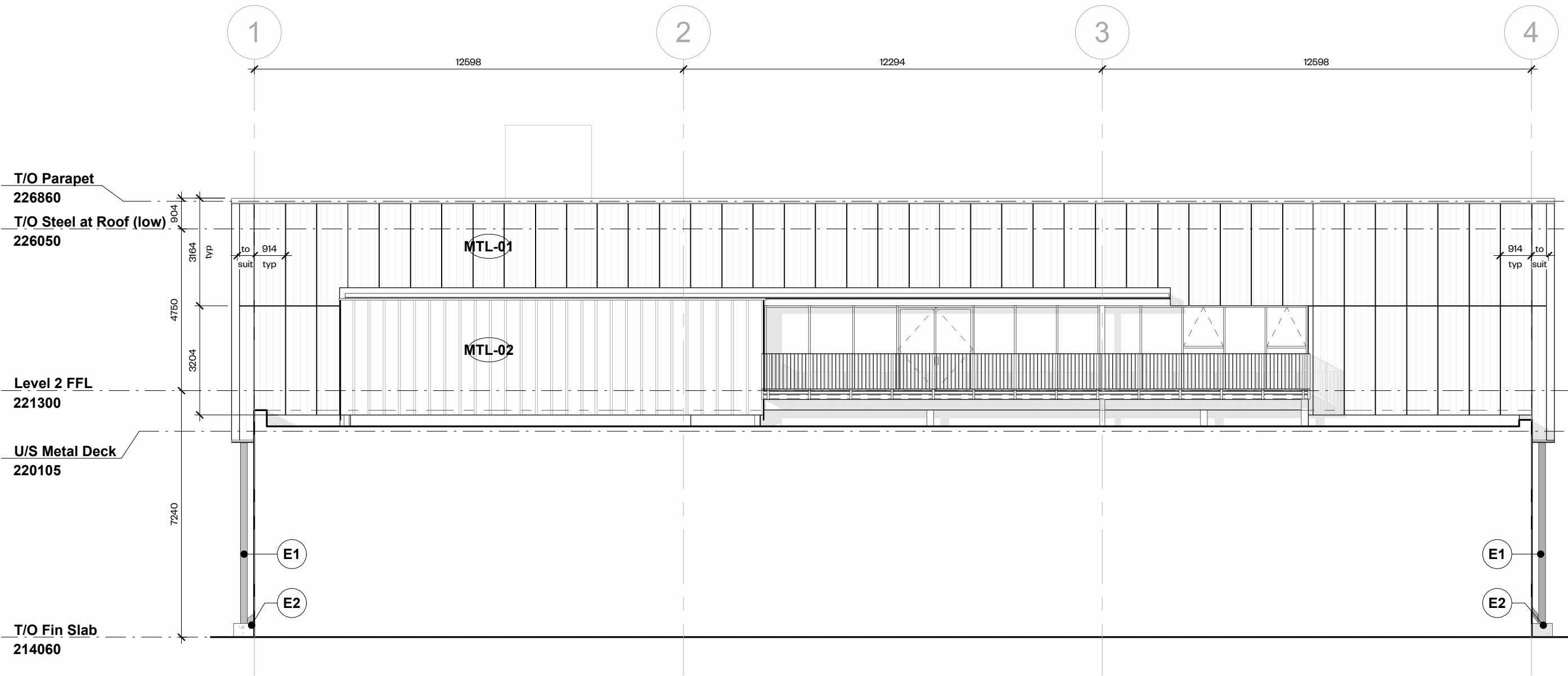
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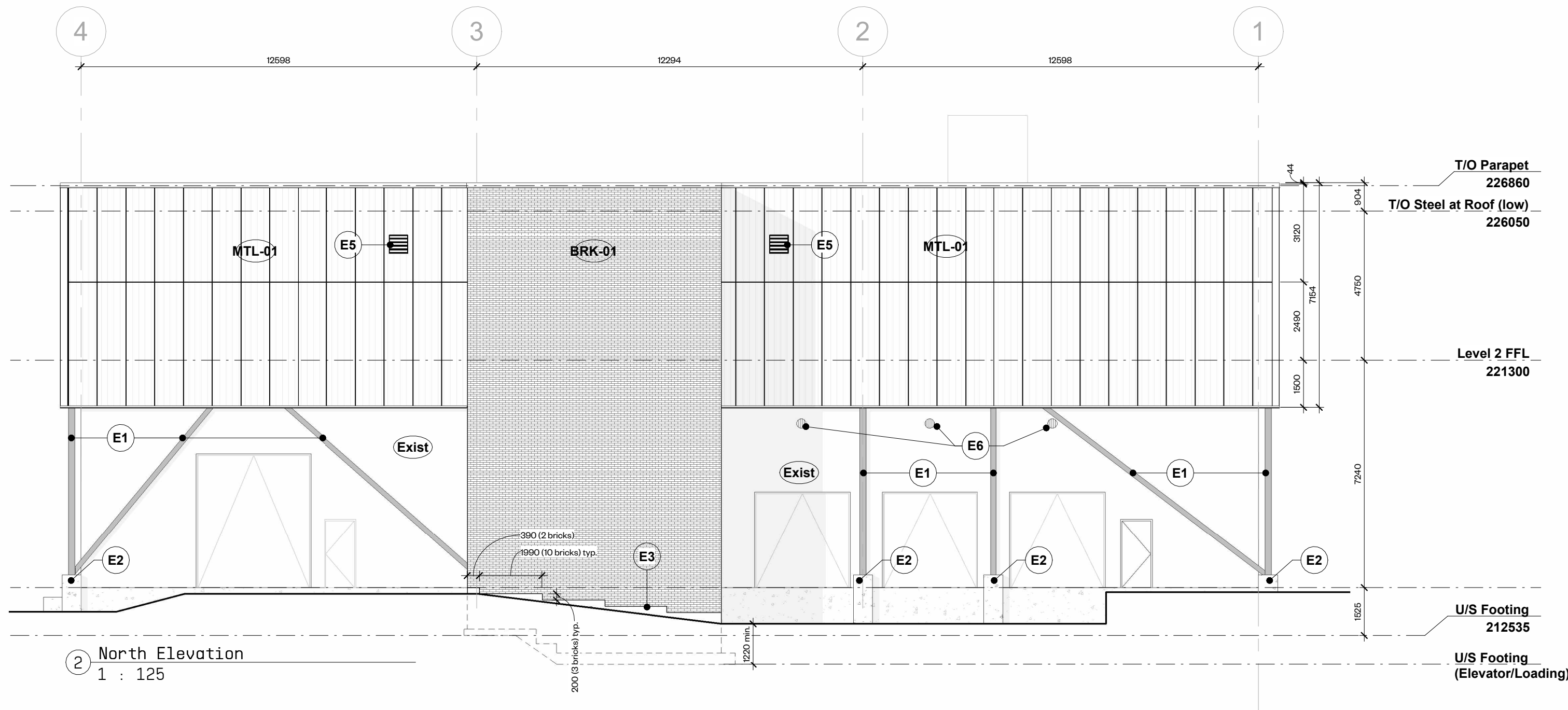
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Building Sections

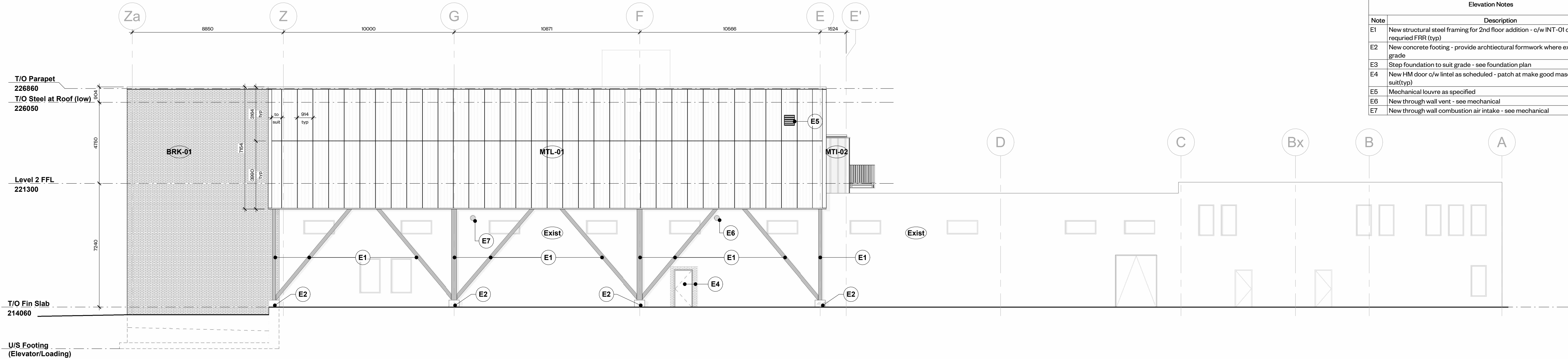
drawing number
A3.0



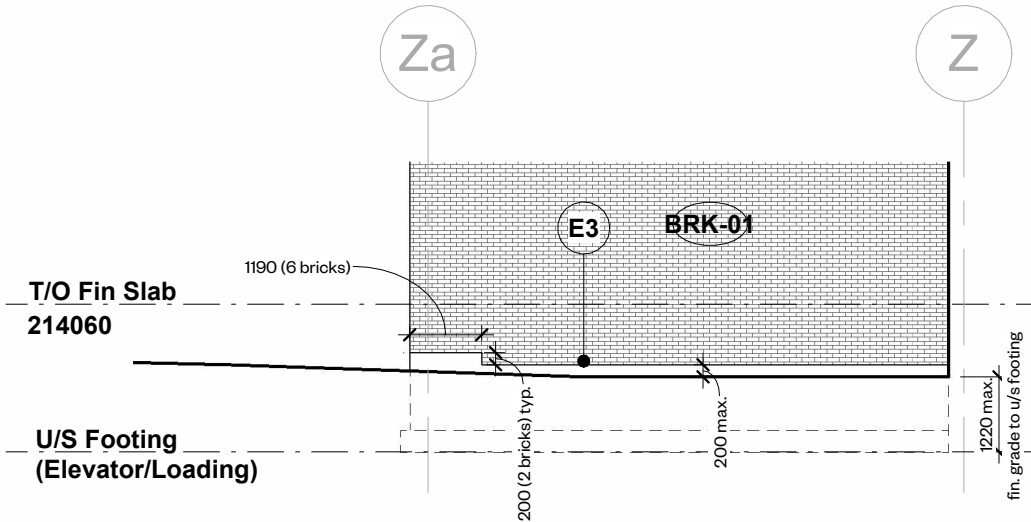
1 South Elevation
1 : 125



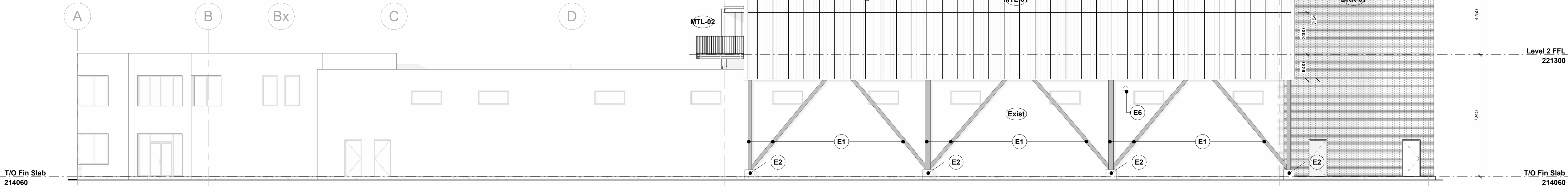
2 North Elevation
1 : 125



3 West Elevation
1 : 125



5 Partial West Elevation at Elevator/Loading
1 : 125



4 East Elevation
1 : 125

Elevation Notes	
Note	Description
E1	New structural steel framing for 2nd floor addition - c/w INT-01 coating to provide required FRR (typ)
E2	New concrete footing - provide architectural formwork where exposed/above grade
E3	Step foundation to suit grade - see foundation plan
E4	New HM door c/w lintel as scheduled - patch at make good masonry veneer to suit (typ)
E5	Mechanical louvre as specified
E6	New through wall vent - see mechanical
E7	New through wall combustion air intake - see mechanical

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Materials Legend

AB	Air Barrier Membrane
ACT	Acoustic Ceiling Tile
ALUM	Aluminum
BLK	Block (CMU)
BRK	Brick
CER	Ceramic Tile (01, 02, etc)
CG	Corner Guard
CON	Concrete
OPT	Carpet
CRW	Crystalline Waterproofing
EPO	Epoxy Paint
EXIST	Existing
EXP	Exposed
GR	Guardrail (01, 02, etc)
GWB	Gypsum Wallboard
HR	Handrail (01, 02, etc)
INS	Insulation (01, 02, etc)
MIR	Mirror
MTL-01	Insulated Metal Cladding Panel
MTL-02	Metal Cladding
PE	Push Button
PLY	Fire Rated Plywood
POR	Porcelain Tile (01, 02, etc)
PC	Polished Concrete
PLAM	Plastic Laminate
PT	Paint Finish
QTZ	Quartz
RB	Rubber Base
RES	Resilient Sheet Flooring
SLR	Concrete Sealer
SS	Stainless Steel
TGL	Tempered Glass
VB	Vapour Barrier
WD	Solid Wood
WP	Wall Protection Rail
WRB	Weather Barrier
WV	Wood Veneer

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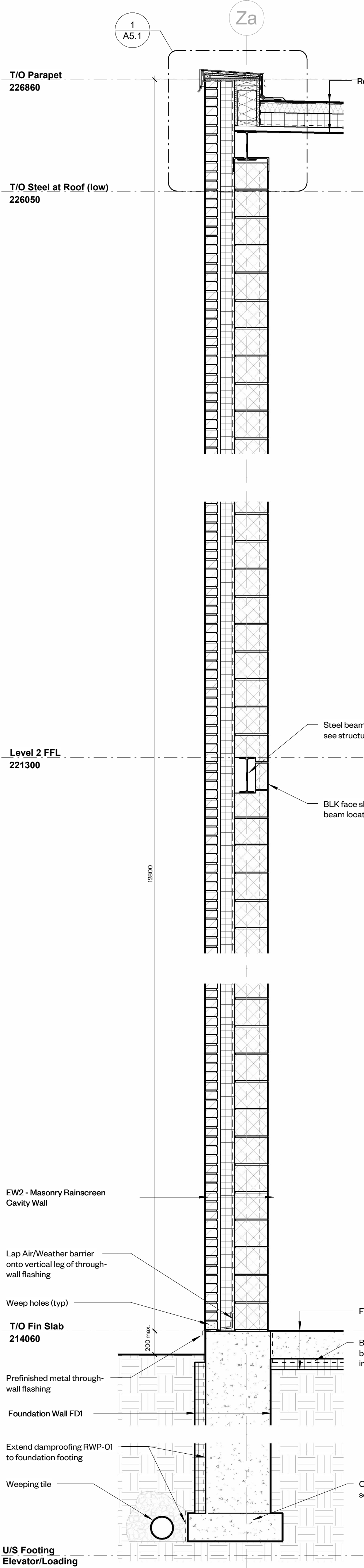
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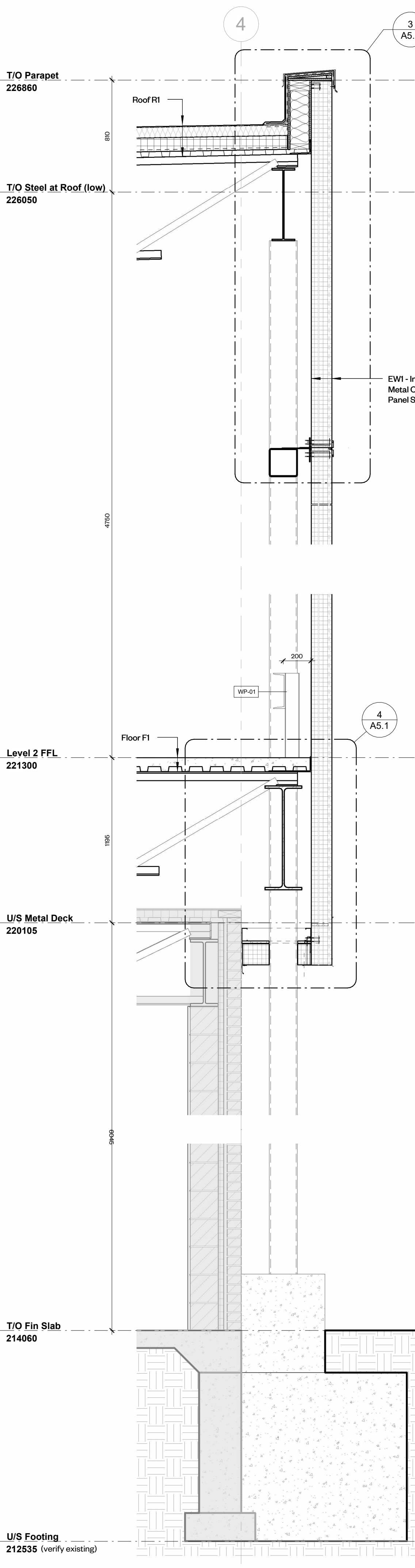
Exterior Elevations

drawing number

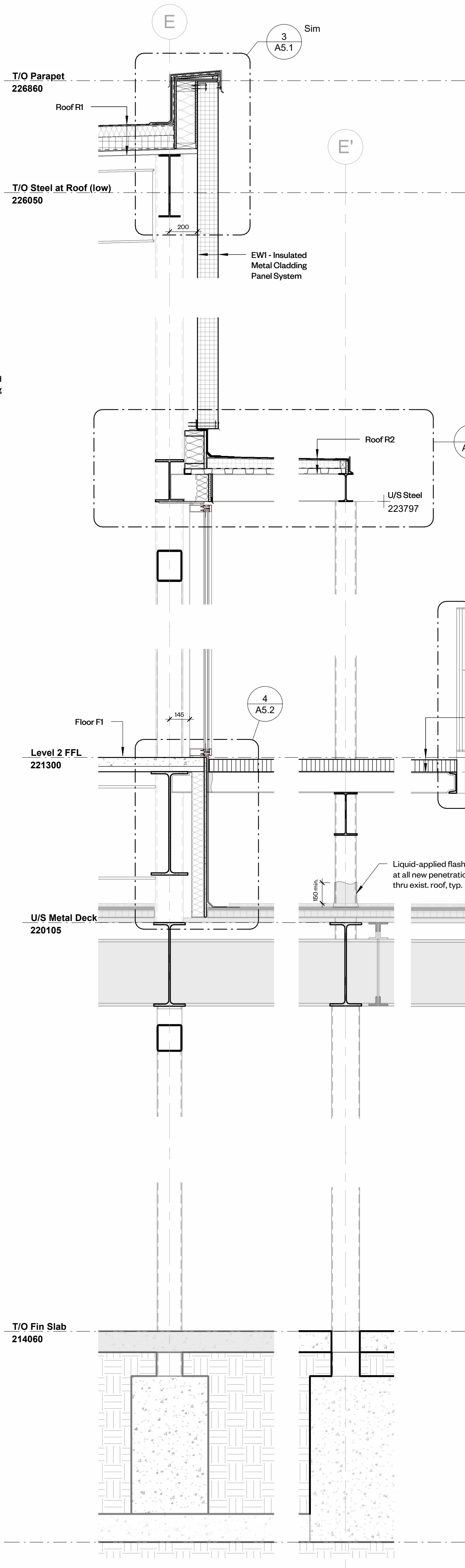
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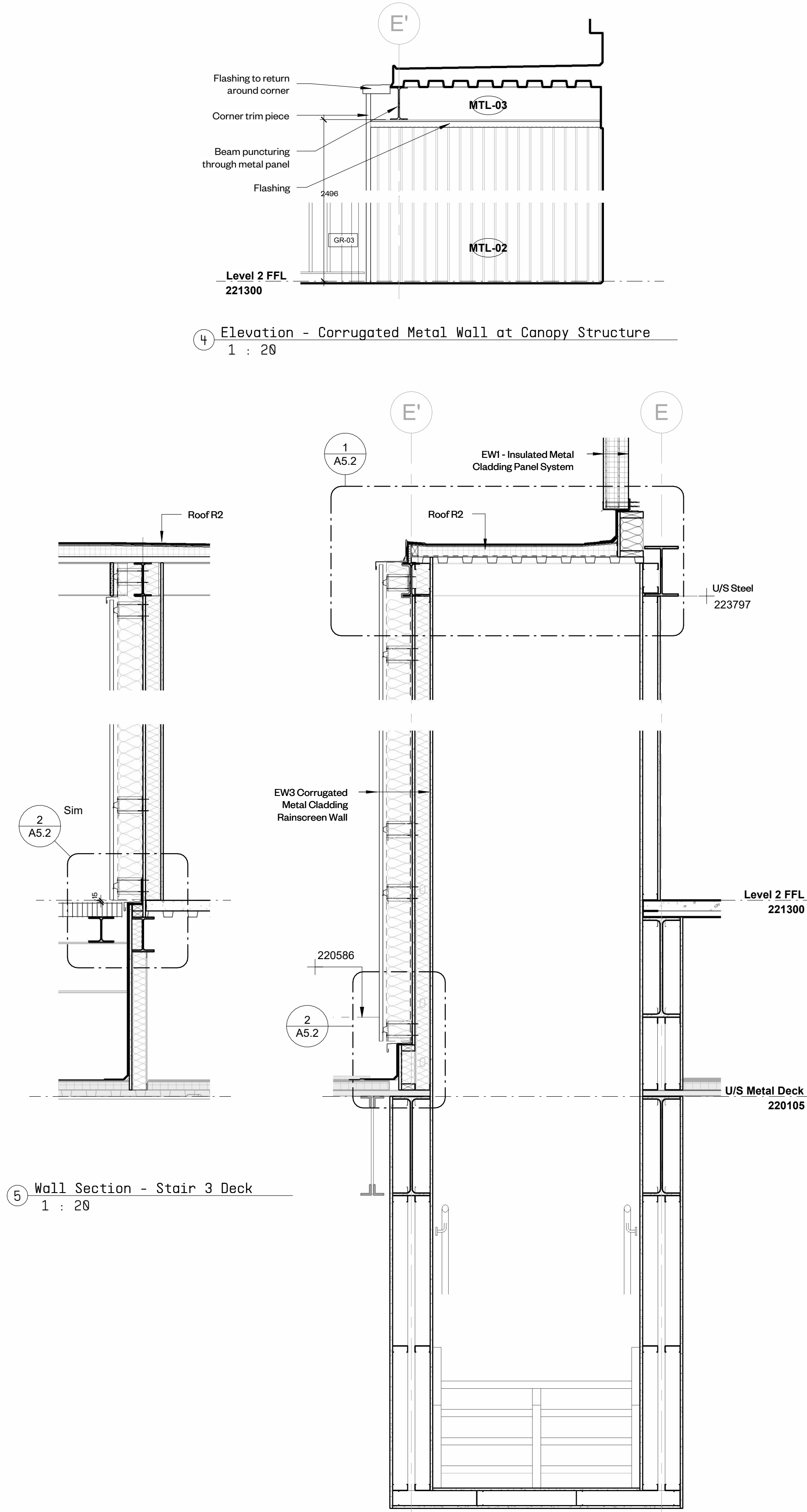
① Wall Section - CMU Typ
1 : 20



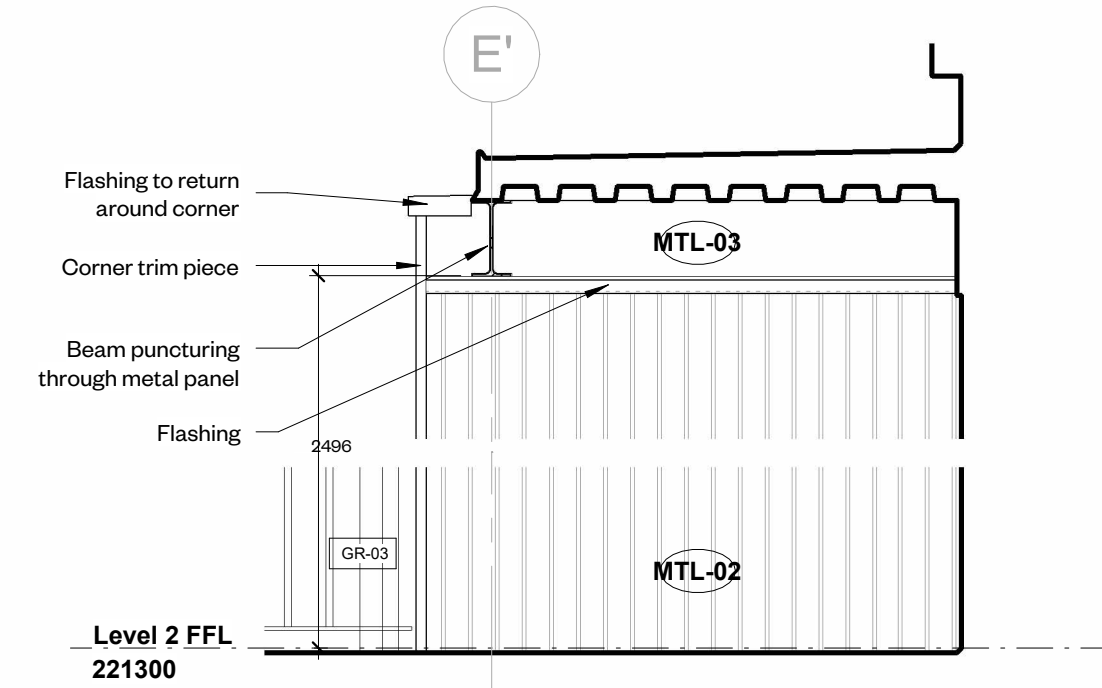
② Wall Section - Insulated Metal Panel Typ
1 : 20



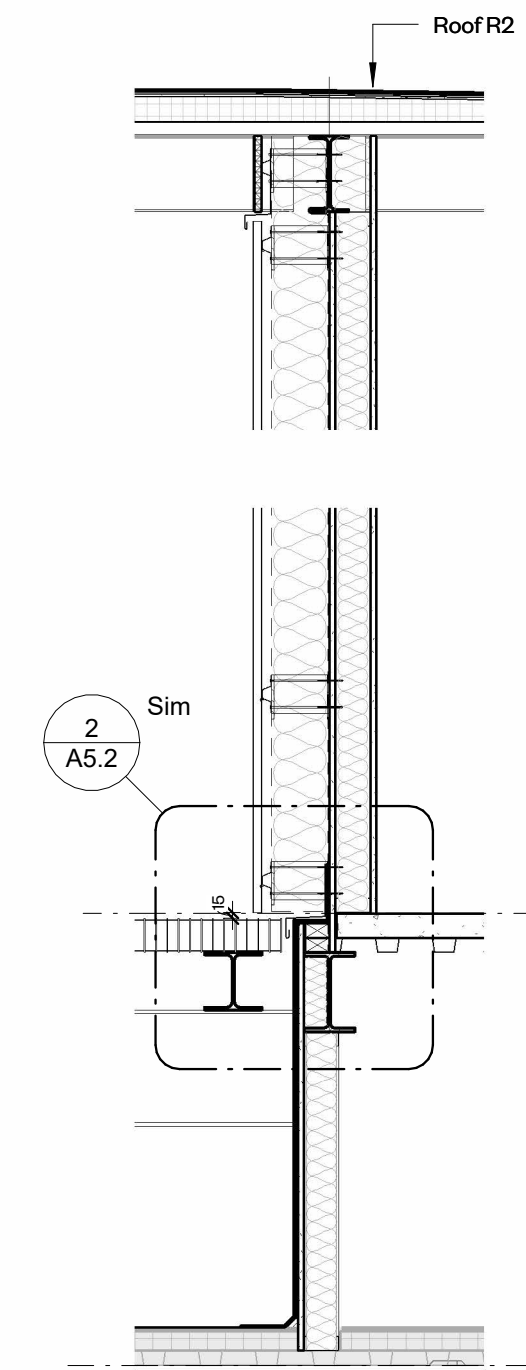
③ Wall Section - South Wall
1 : 20



⑥ Wall Section - Stair 3
1 : 20



④ Elevation - Corrugated Metal Wall at Canopy Structure
1 : 20



⑤ Wall Section - Stair 3
1 : 20

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Membrane Legend		
----	AB-01	Air Barrier
----	RM-01	Roof Membrane
----	RWP-01	Dampproofing
----	VB-01/02	Vapour Barrier
----	WRB-01	Weather Resistant Barrier

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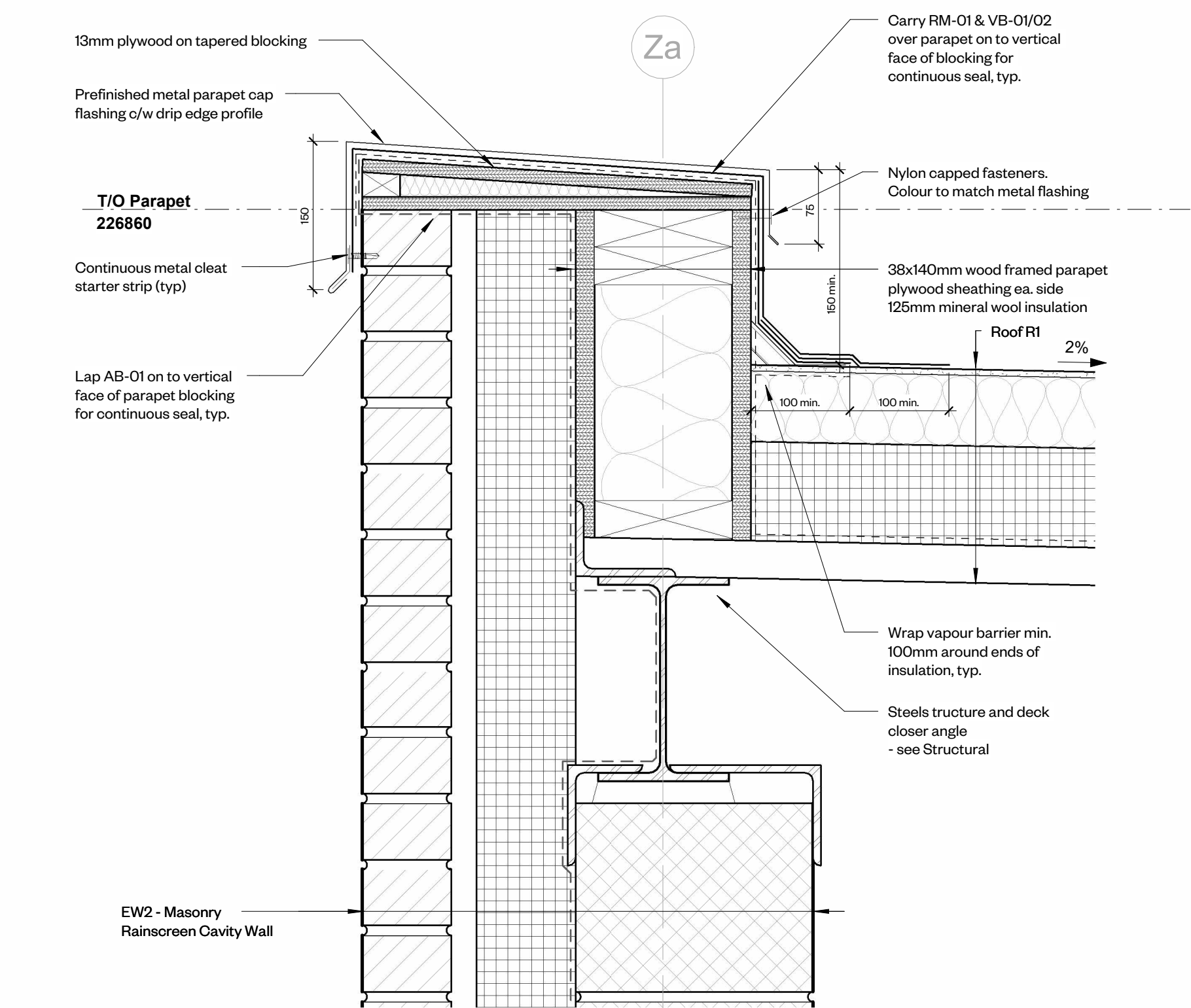
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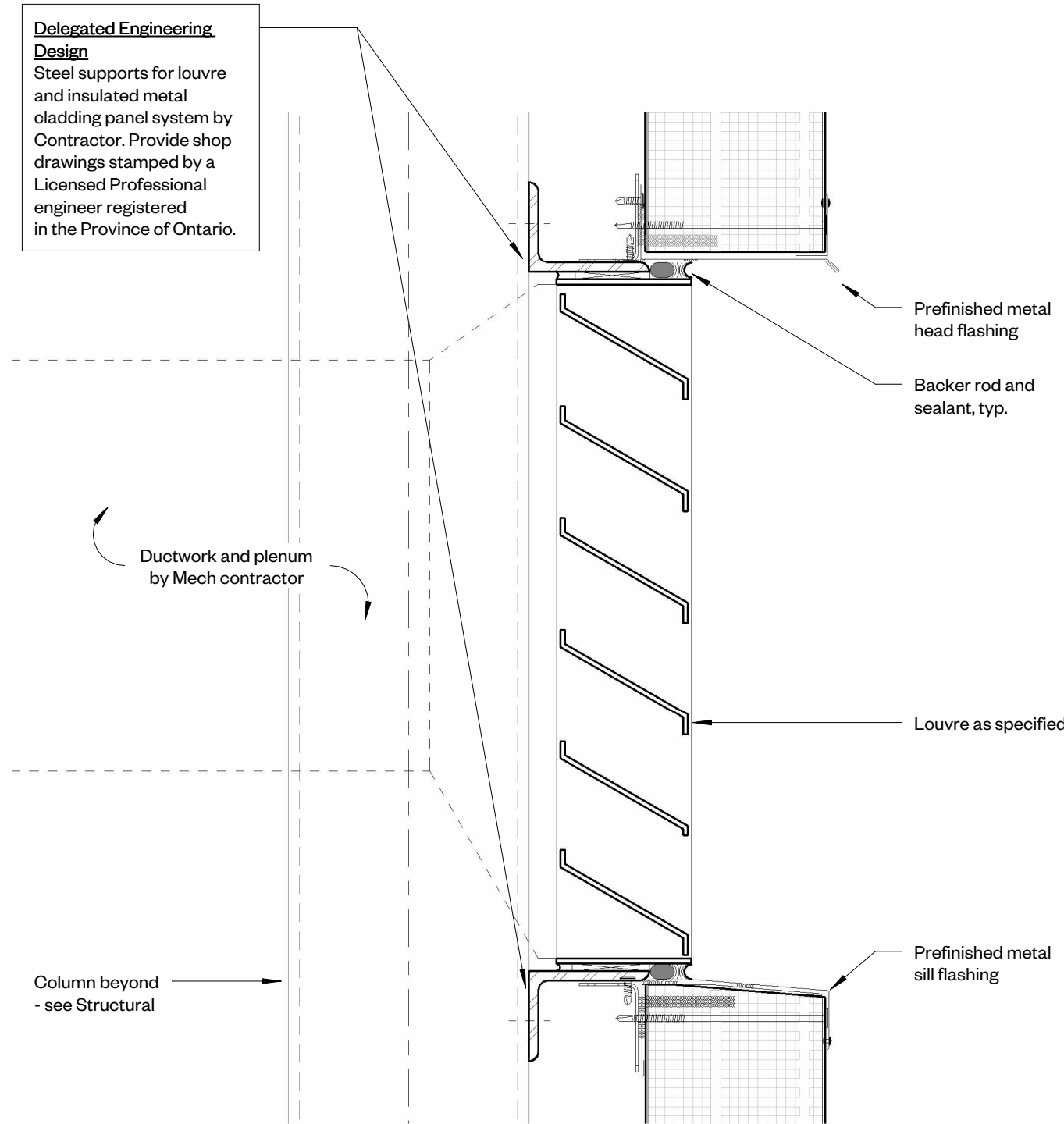
Wall Sections

drawing number

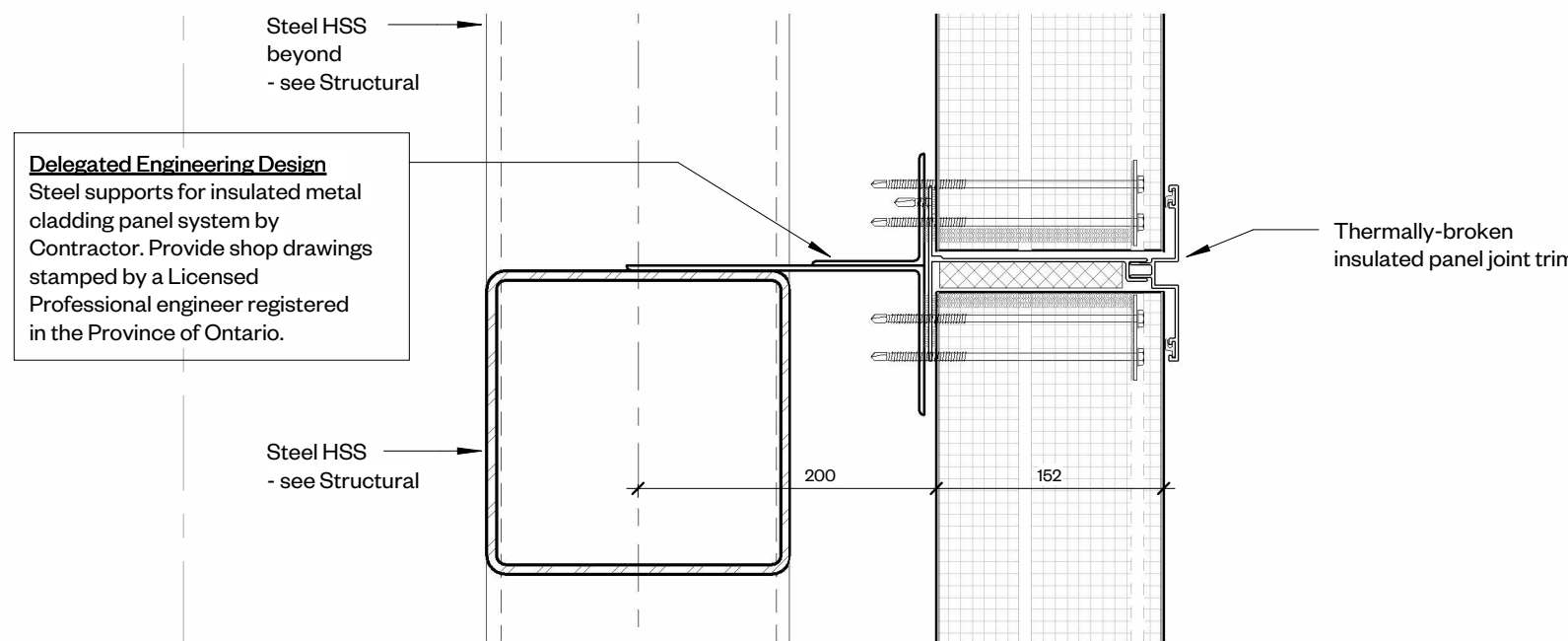
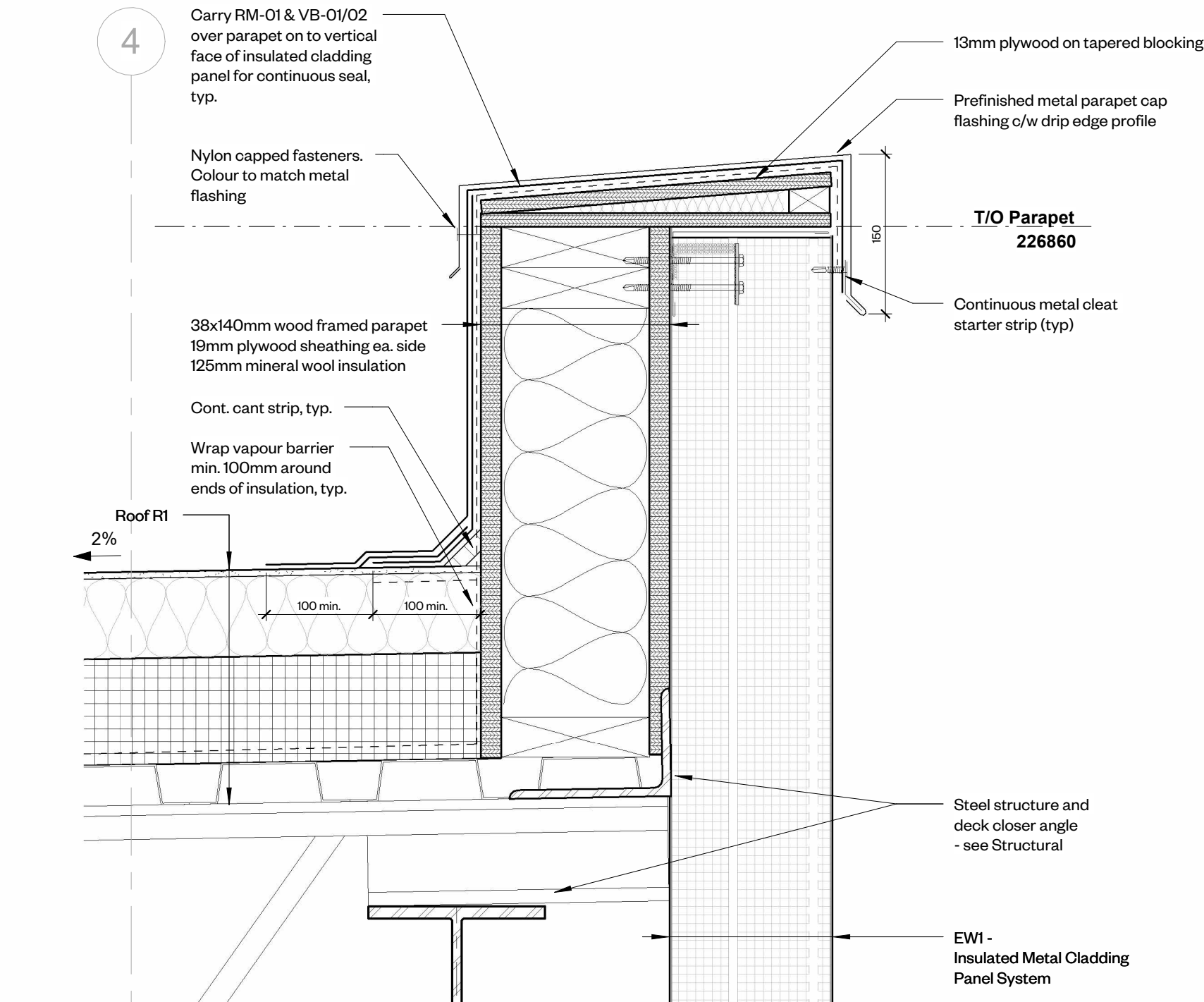
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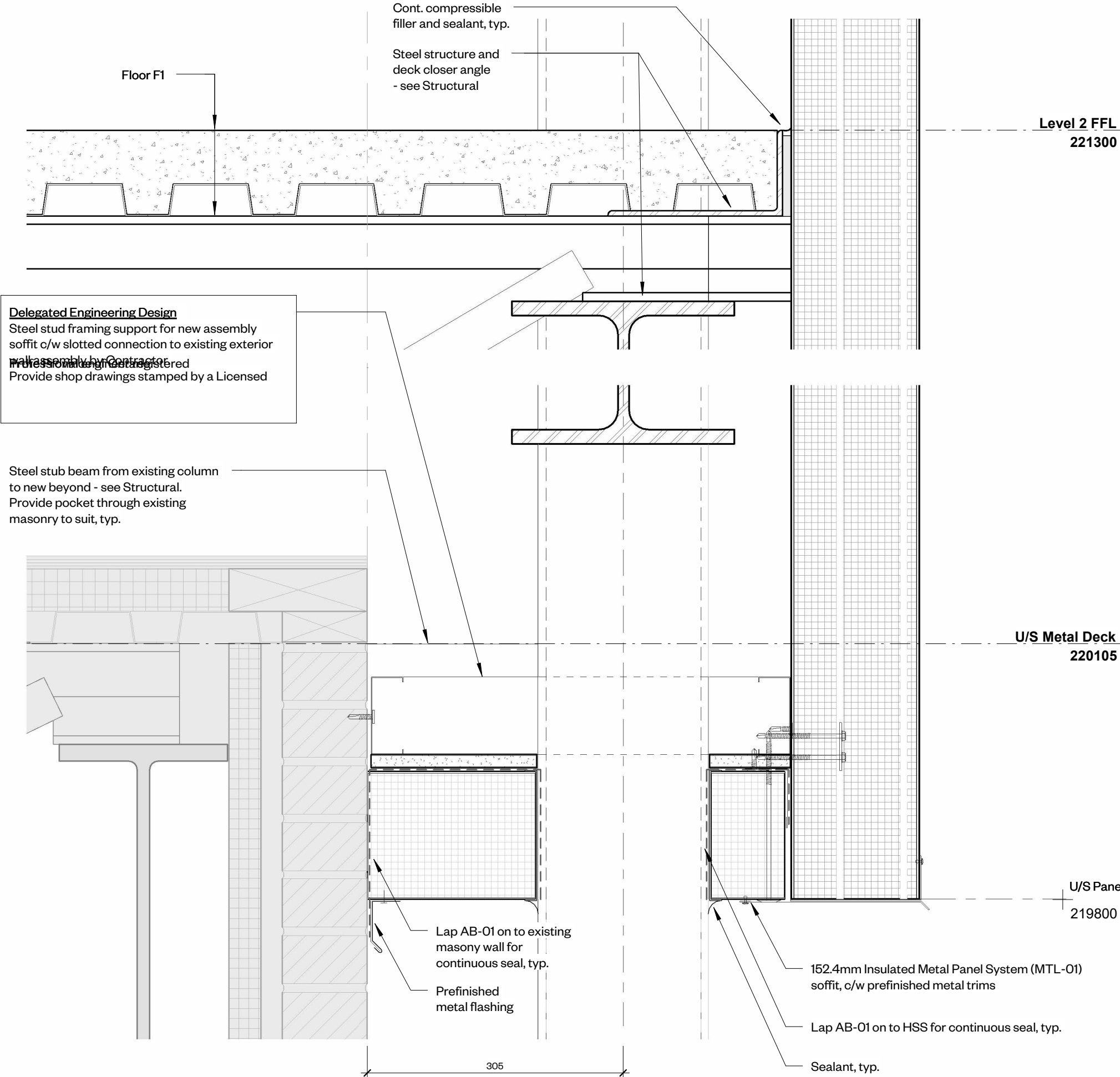
1 Detail - CMU Wall Parapet
1 : 5



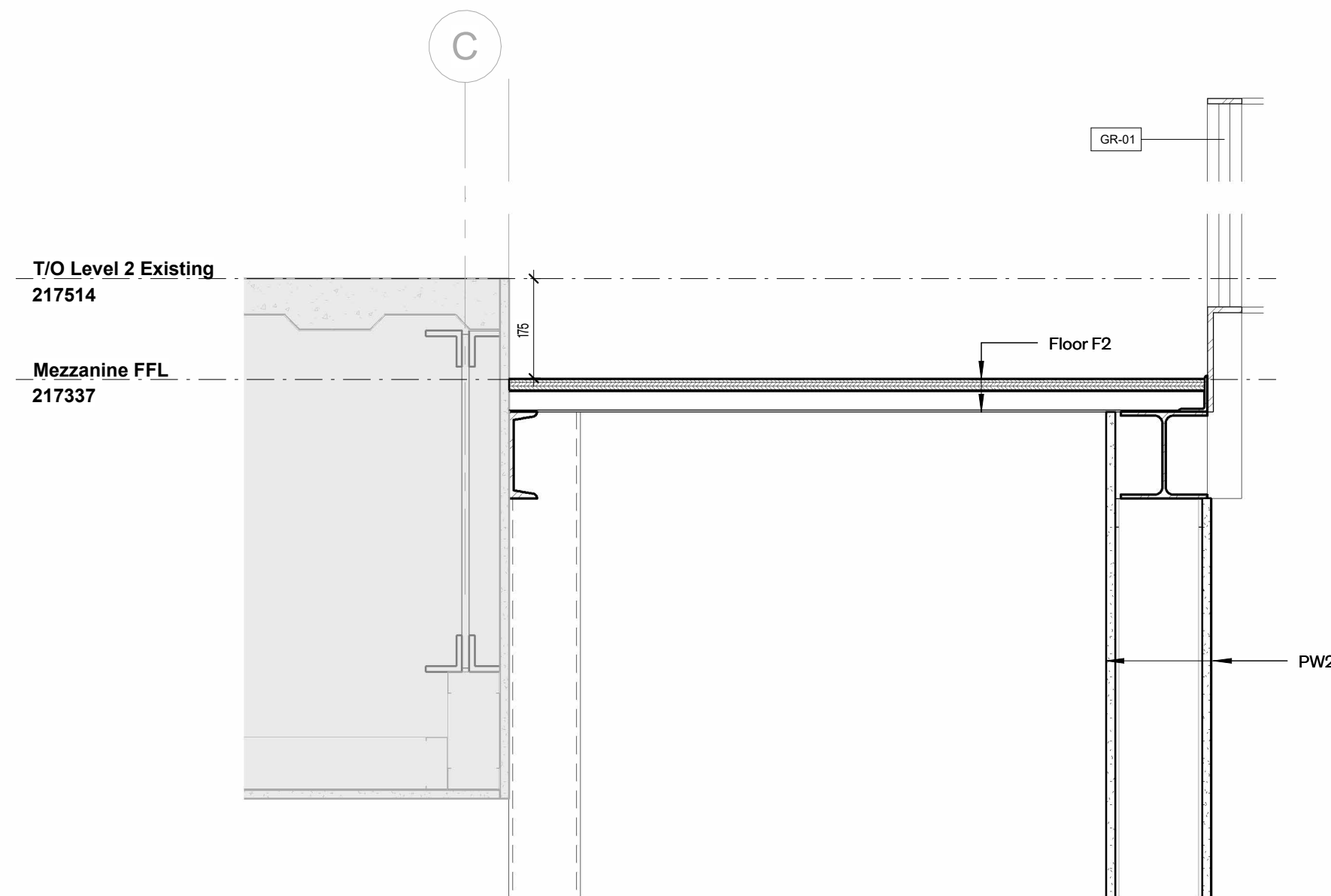
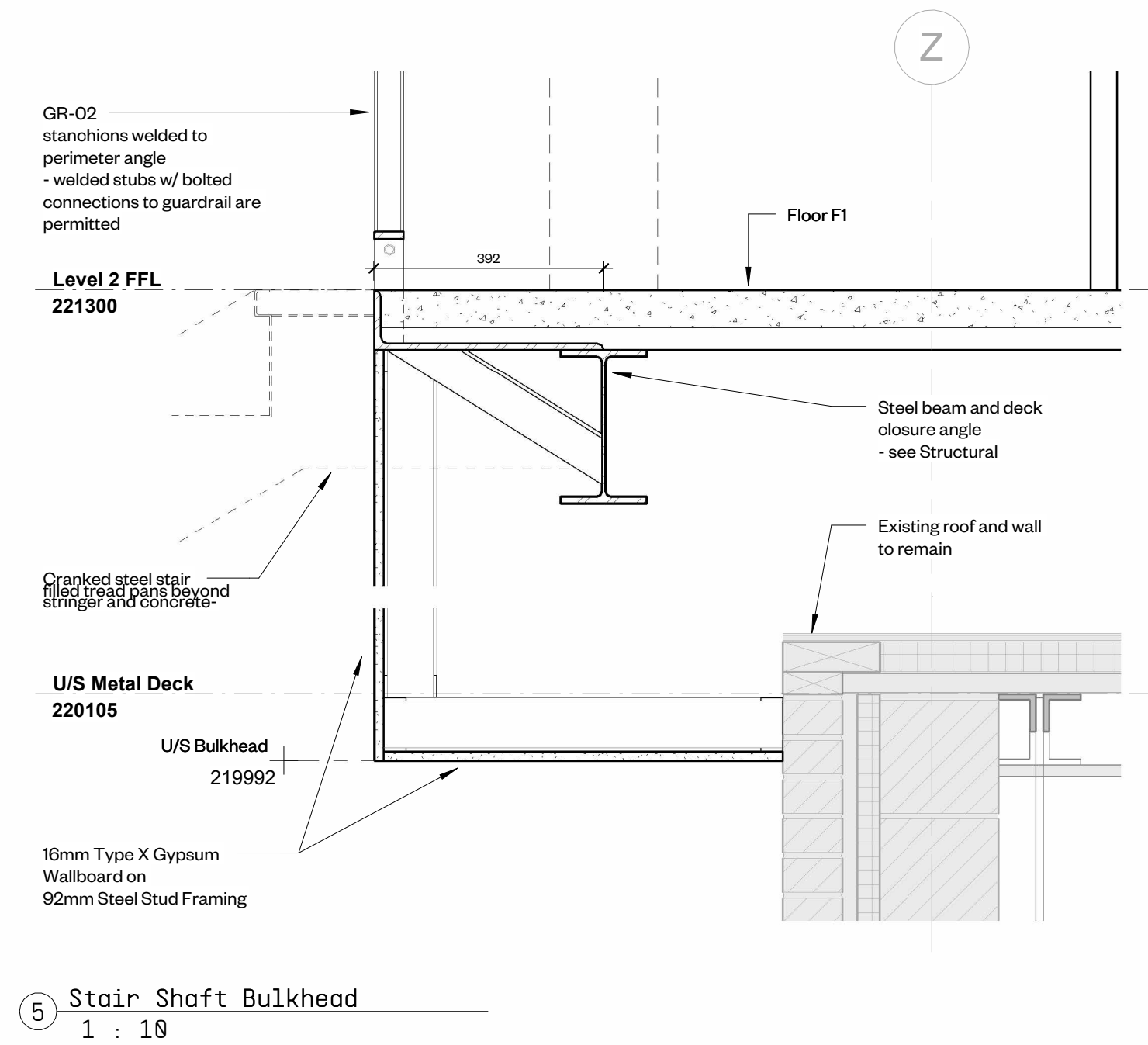
2 Detail - Insulated Panel Louvre Penetration
1 : 5



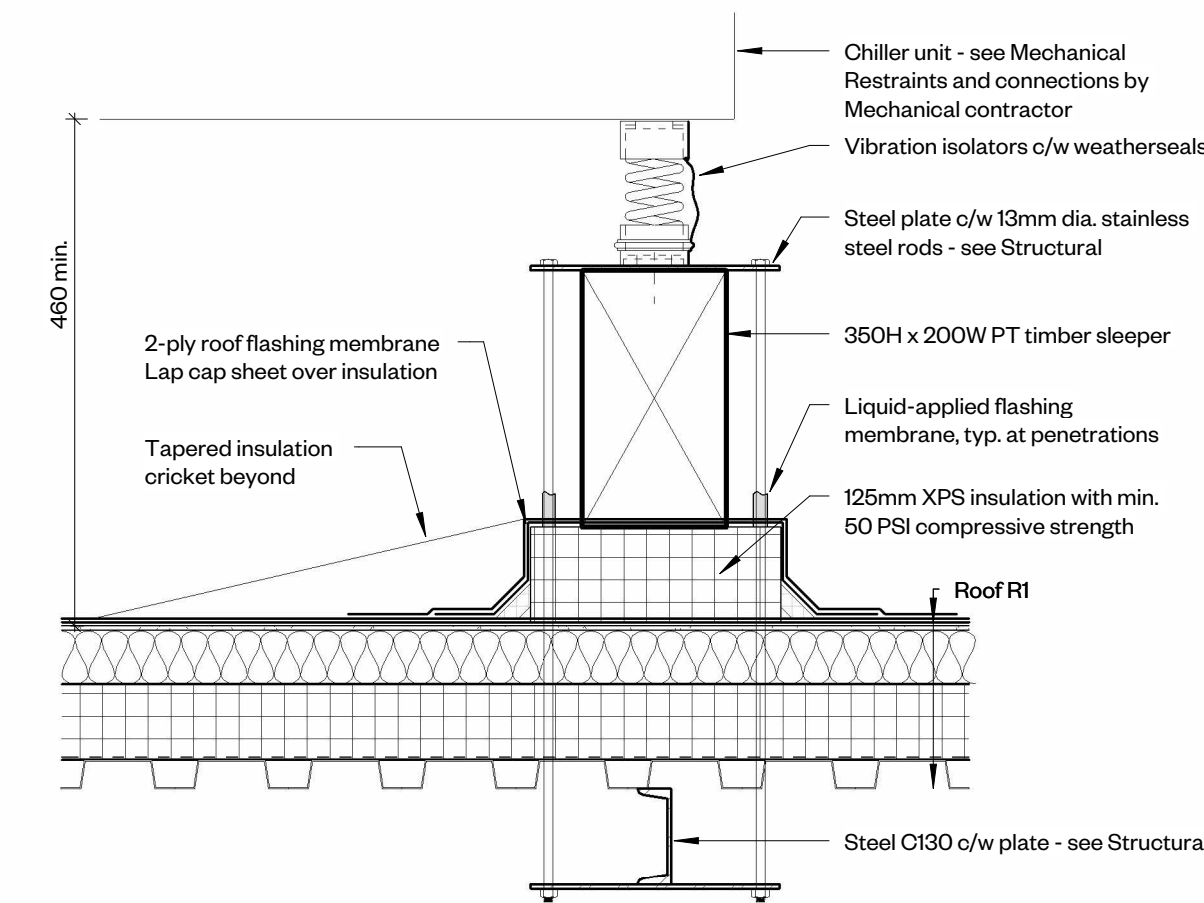
3 Detail - Insulated Panel Parapet & Horiz. Joint
1 : 5



4 Detail - Insulated Panel Soffit
1 : 5



6 Mezzanine Connection to Second Floor
1 : 10



7 Roof Detail - Chiller Sleepers
1 : 10

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Membrane Legend		
- - - - -	AB-01	Air Barrier
—————	RM-01	Roof Membrane
- - - - -	RWP-01	Damproofing
- - - - -	VB-01/02	Vapour Barrier
- - - - -	WRB-01	Weather Resistant Barrier

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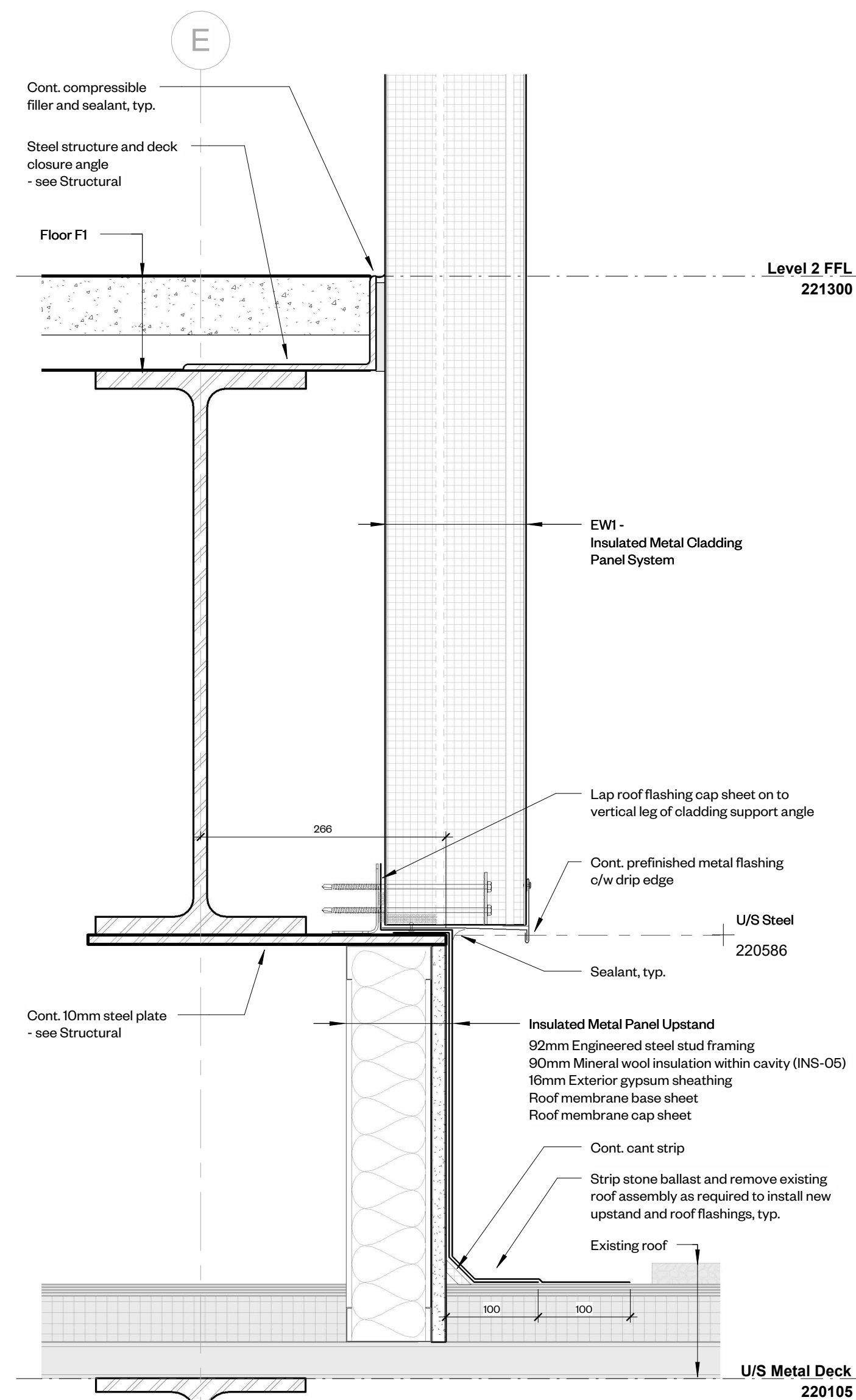
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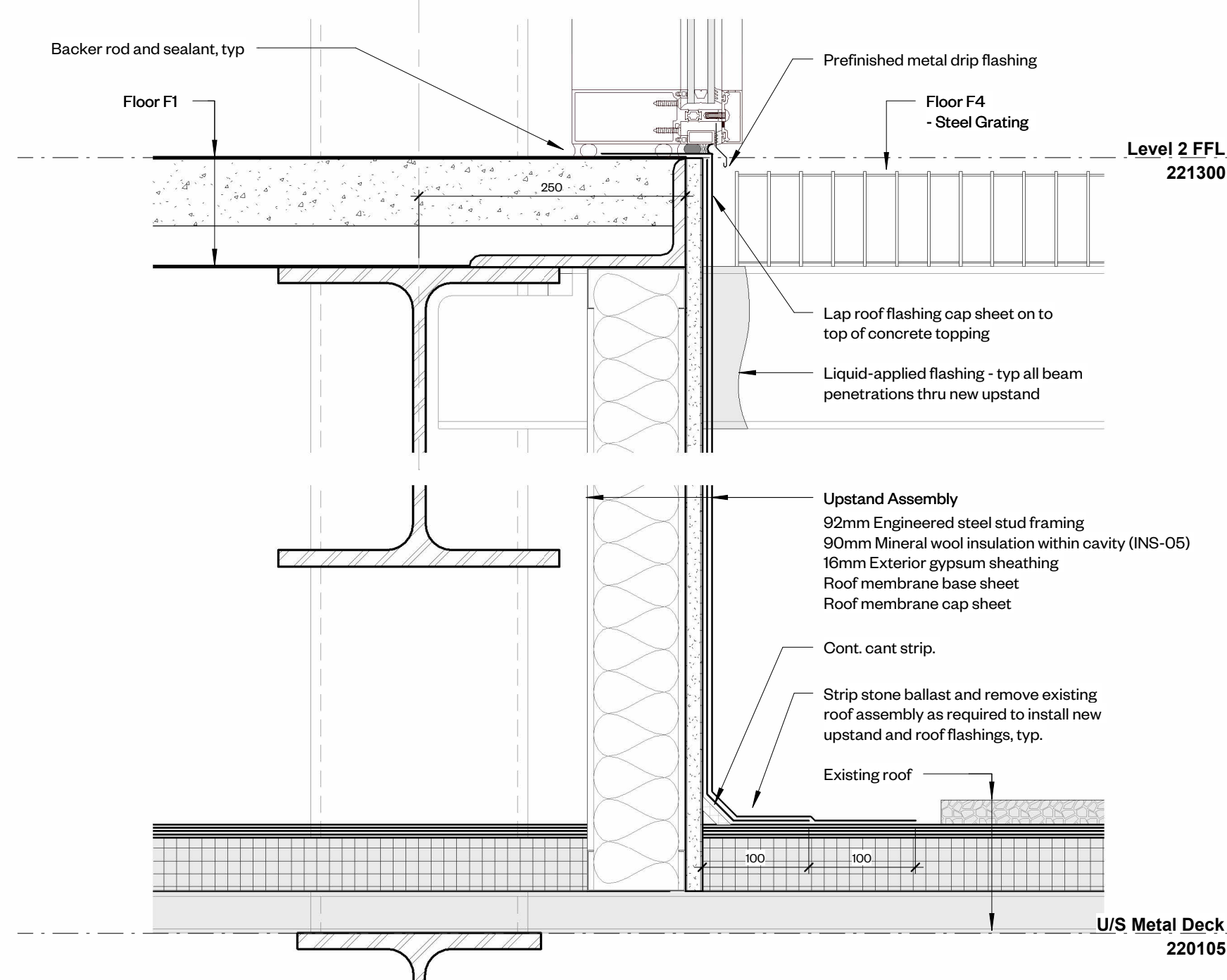
Section Details

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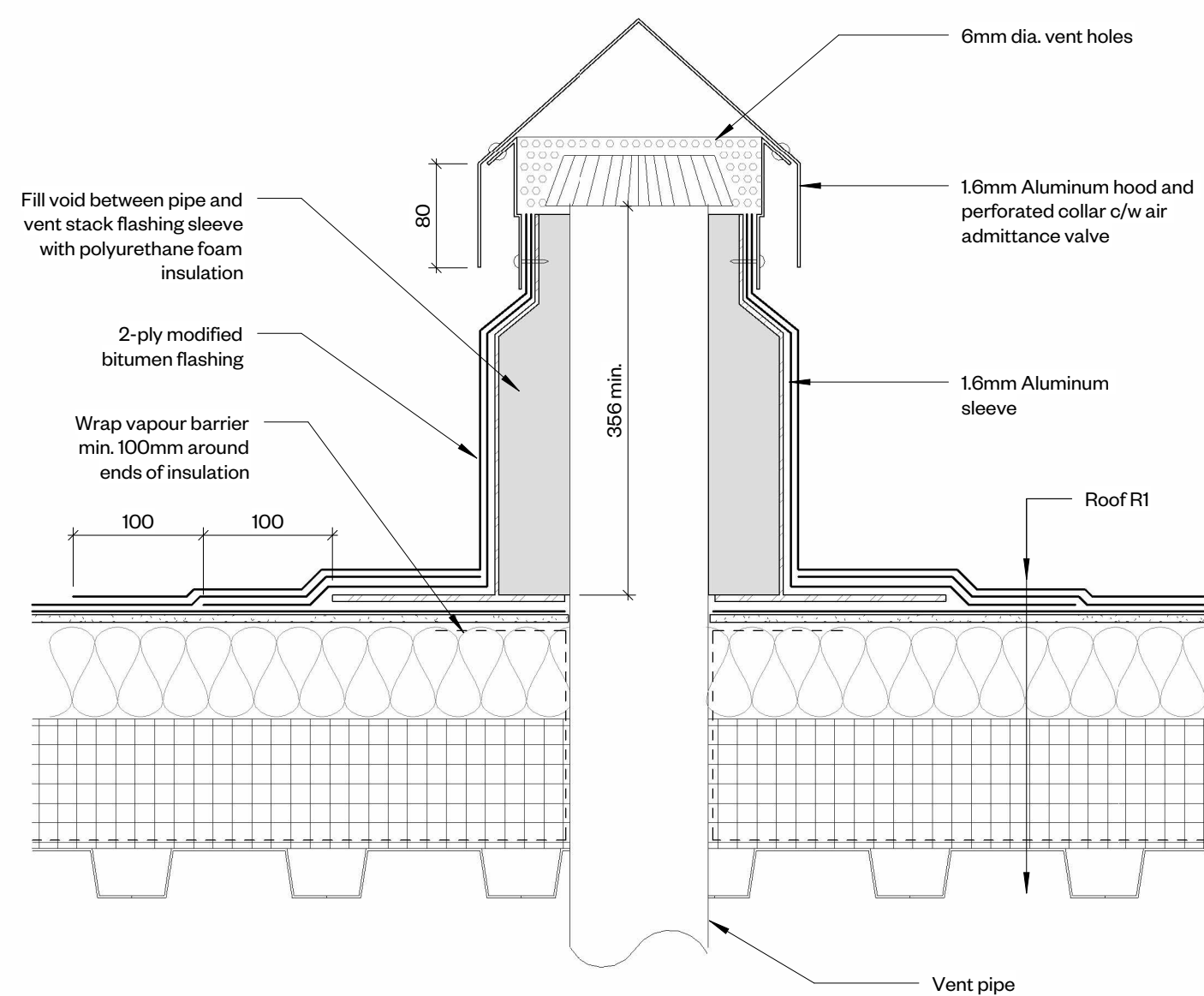
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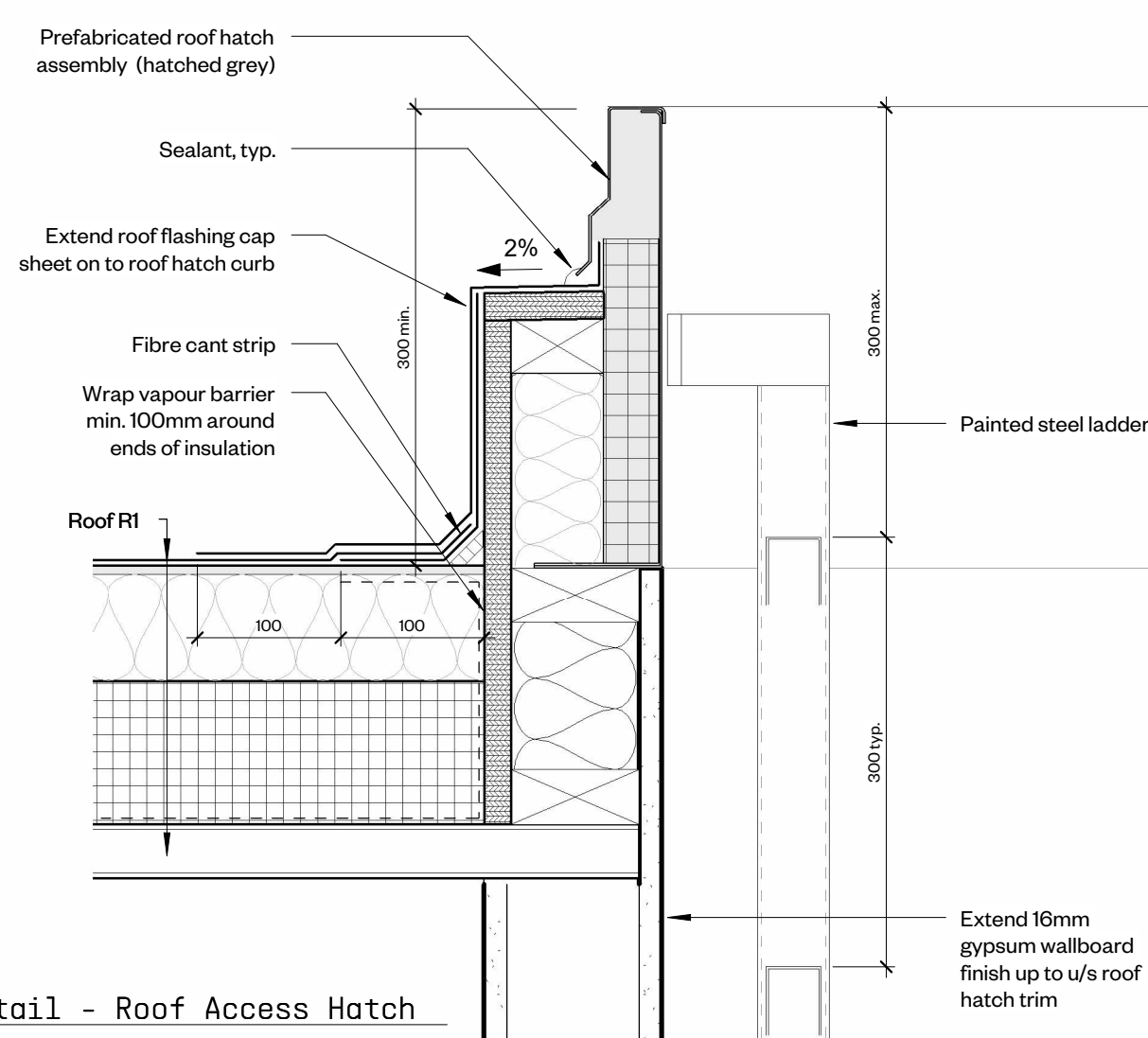
⑤ Detail - Insulated Panel Base
1 : 5



④ Detail - South Canopy Base
1 : 5



7 Roof Detail - Roof Vent [typ]
1 : 5



9 Section Detail - Roof Access Hatch
1 : 5

Membrane Legend

-----	AB-01	Air Barrier
=====	RM-01	Roof Membrane
-----	RWP-01	Damproofing
-----	VB-01/02	Vapour Barrier
-----	WRB-01	Weather Resistant Barrier

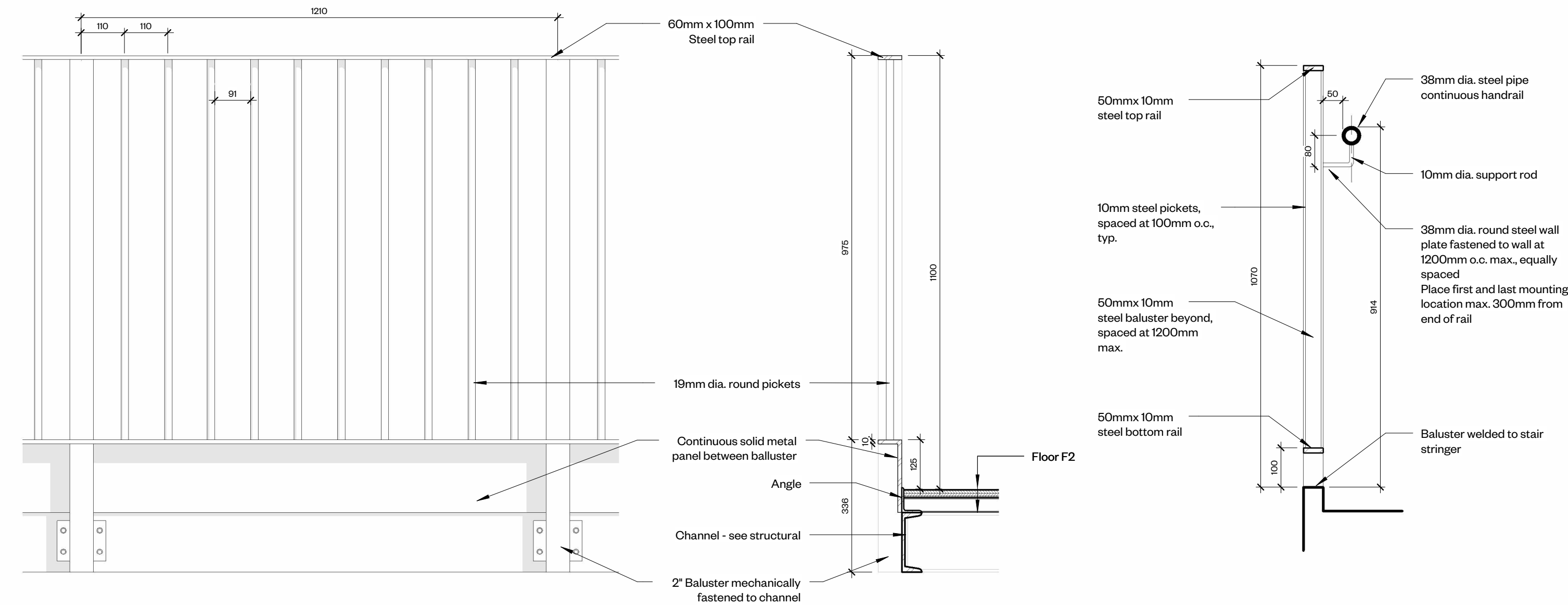
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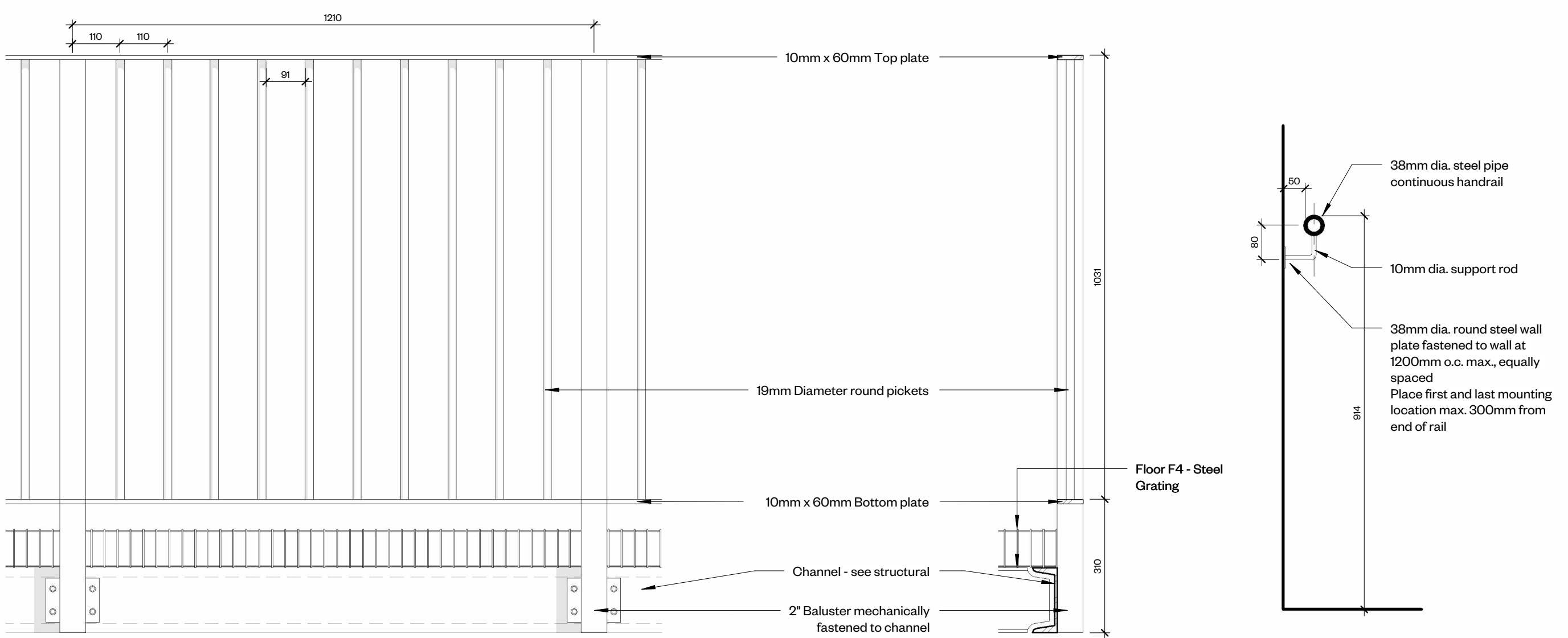
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1 Guard GR-01 - Elevation
1 : 10

2 Guard GR-01 - Section
1 : 10

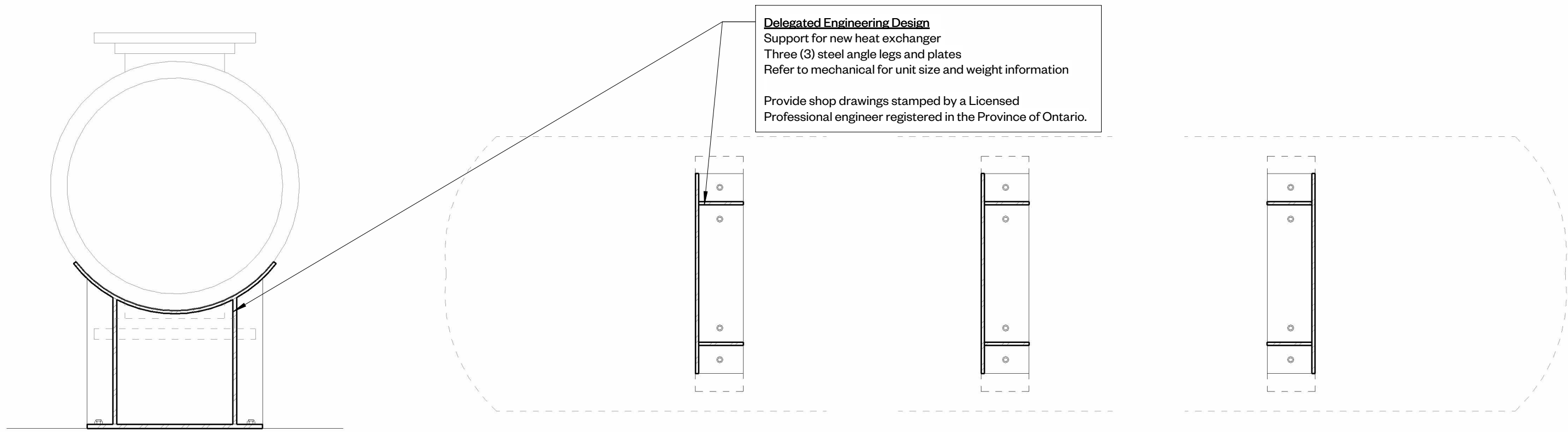
3 Guard GR-02 - Section
1 : 10



4 GR-03 - Elevation
1 : 10

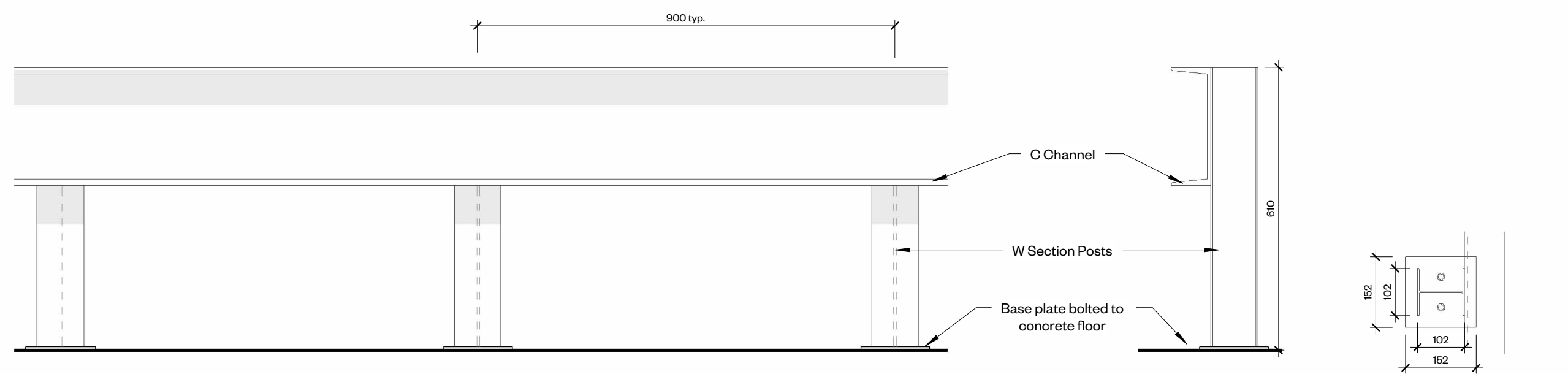
5 GR-03 - Section
1 : 10

6 Handrail HR-01 - Section
1 : 10



7 Heat Exchanger - Metal Frame
1 : 10

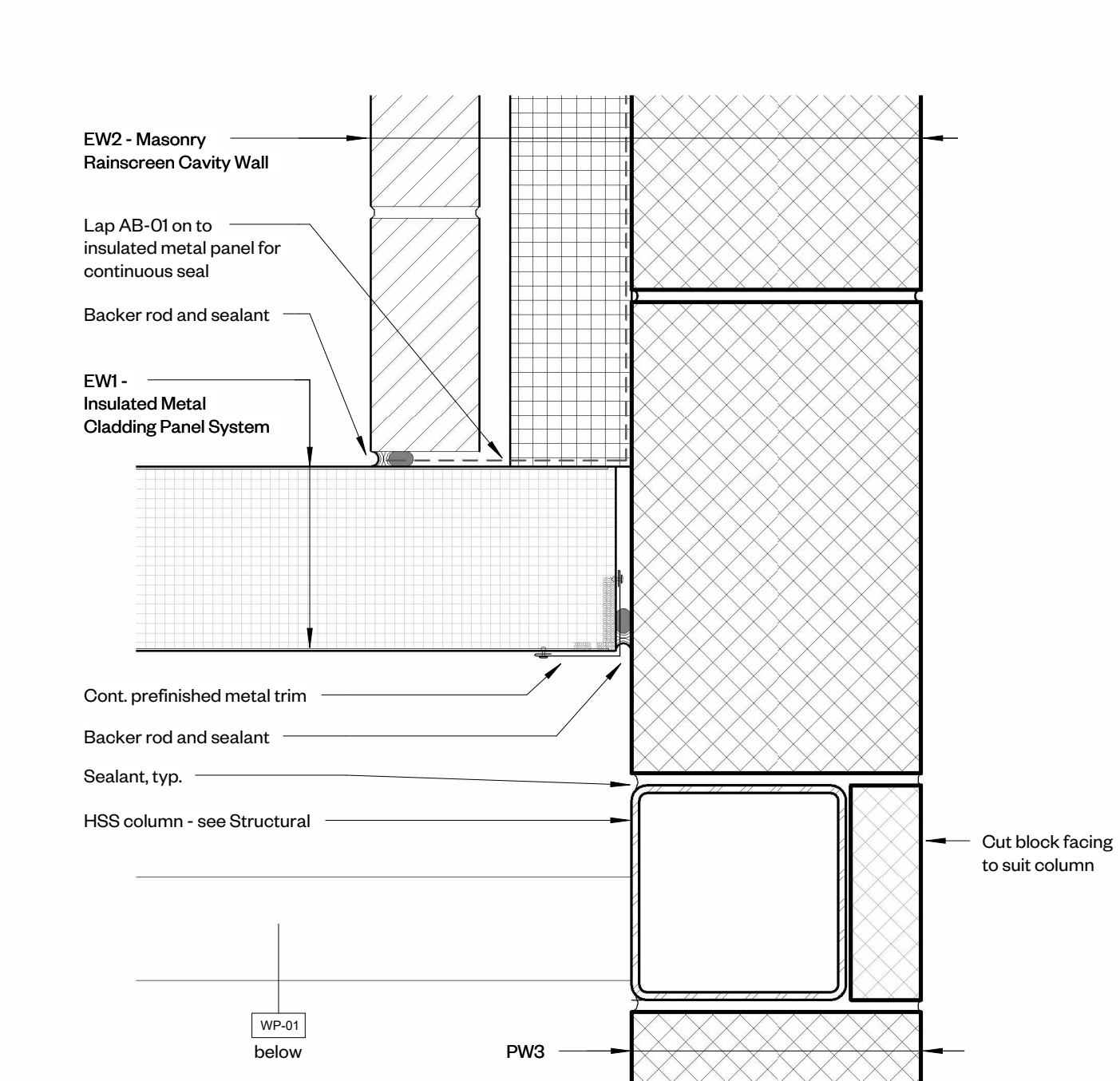
8 Heat Exchanger - Metal Frame Footing
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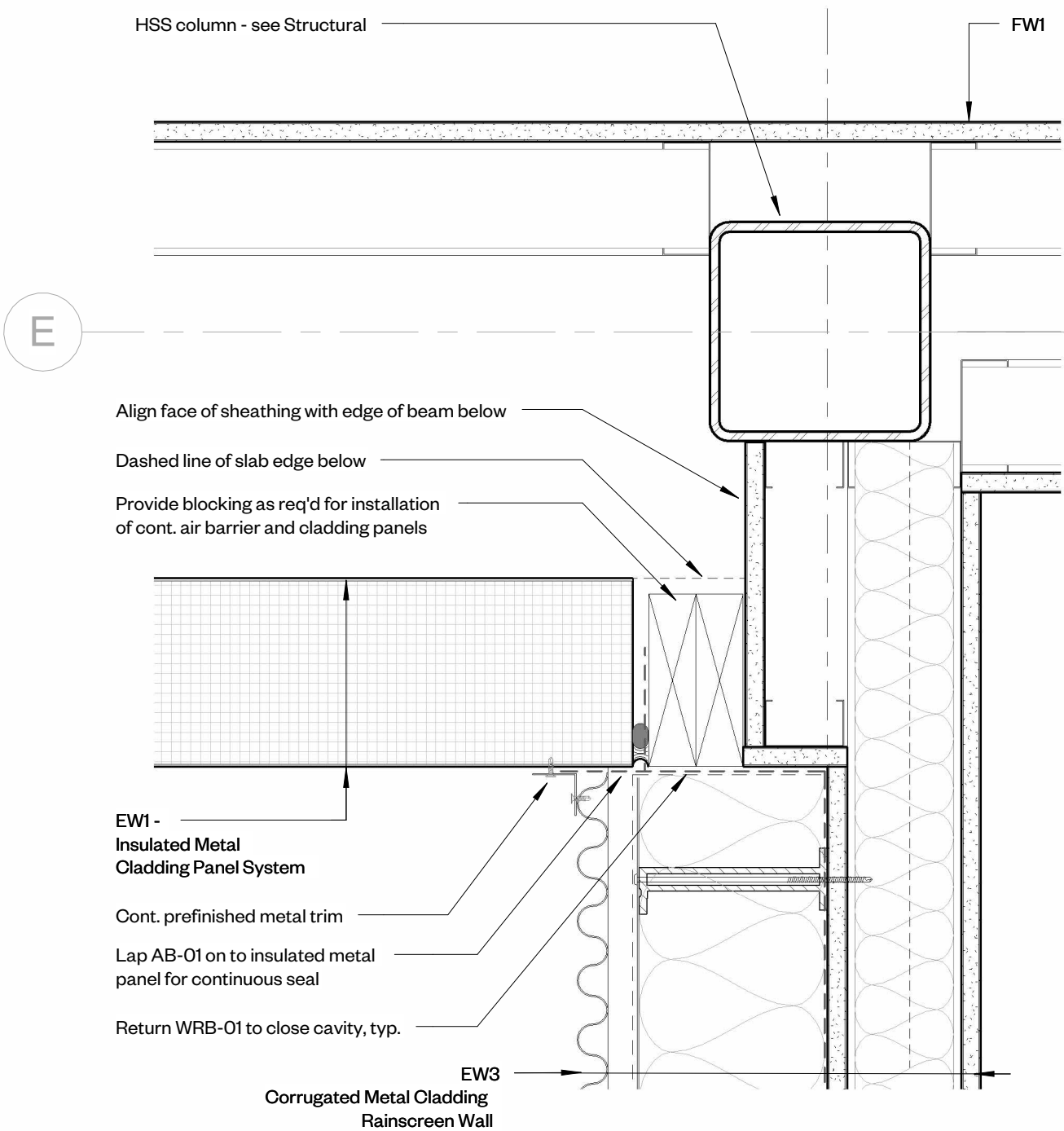
9 WP-01 - Elevation
1 : 10

10 WP-01 - Section
1 : 10

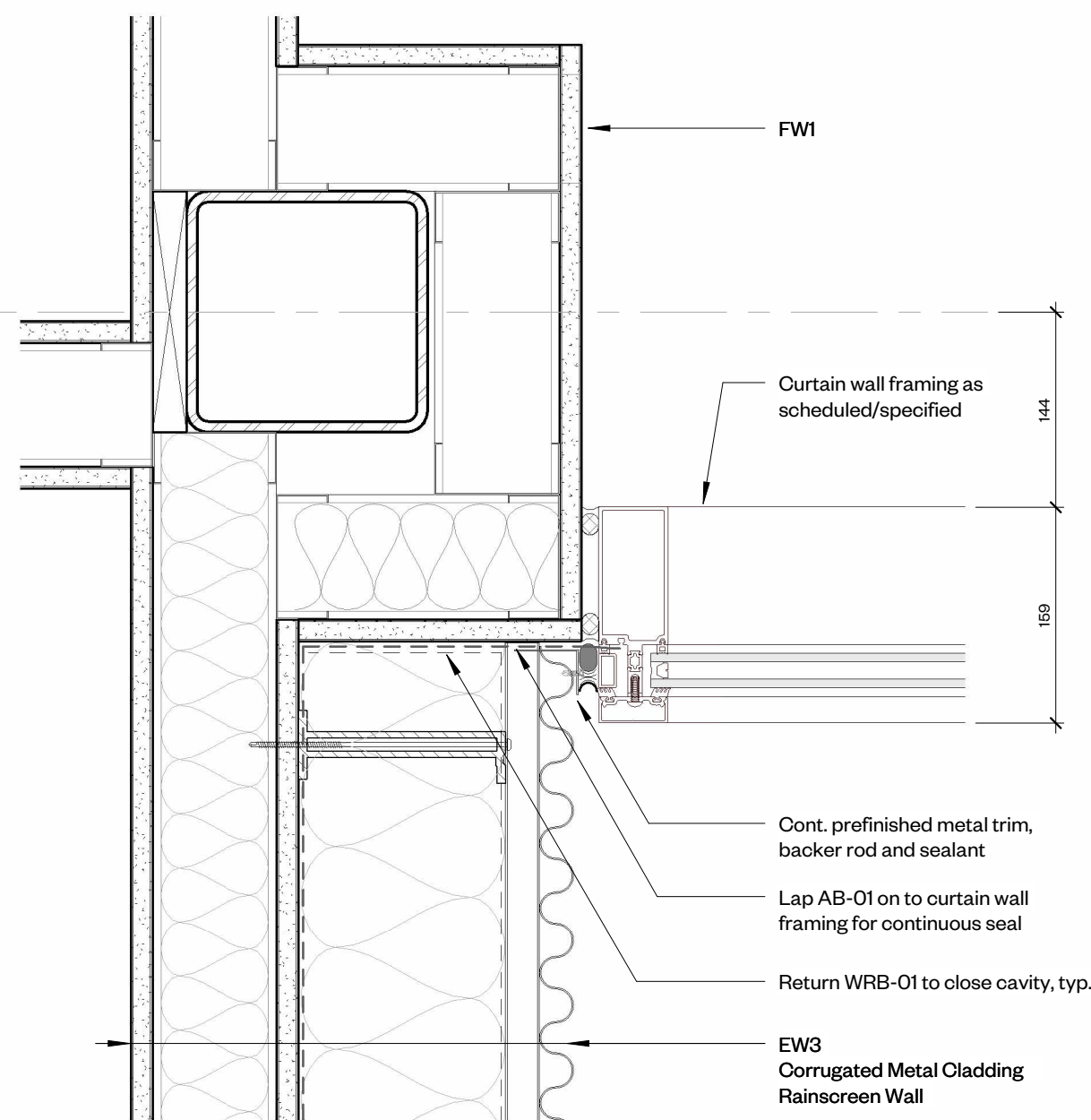
11 WP-01 - Plan
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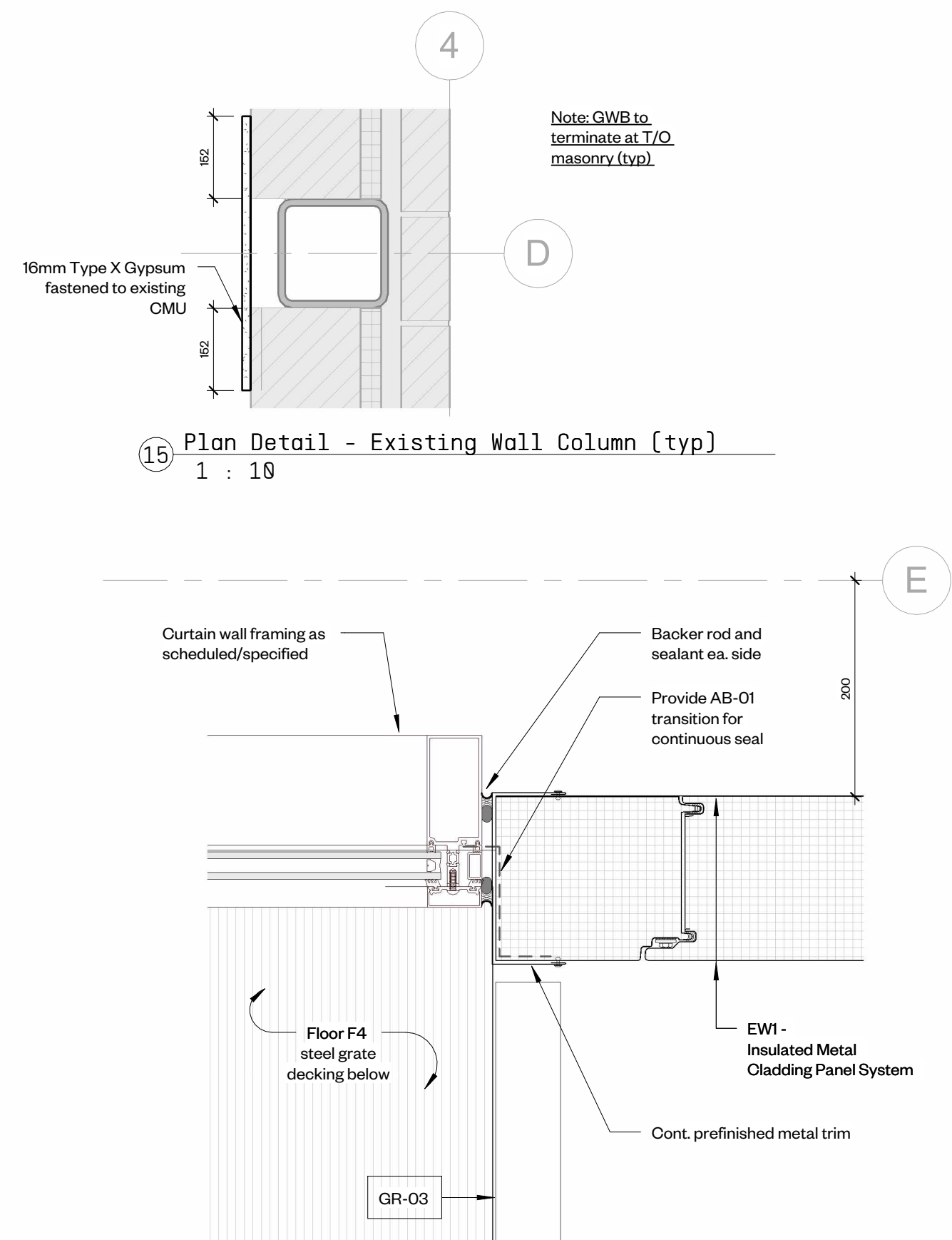
12 Plan Detail - Insulated Metal Panel at Brick
1 : 5



13 Plan Detail - Curtain Wall at EW1
1 : 5



14 Plan Detail - Curtain Wall at EW3
1 : 5



15 Plan Detail - Existing Wall Column [typ]
1 : 10

16 Plan Detail - Curtain Wall at Insulated Panel
1 : 5

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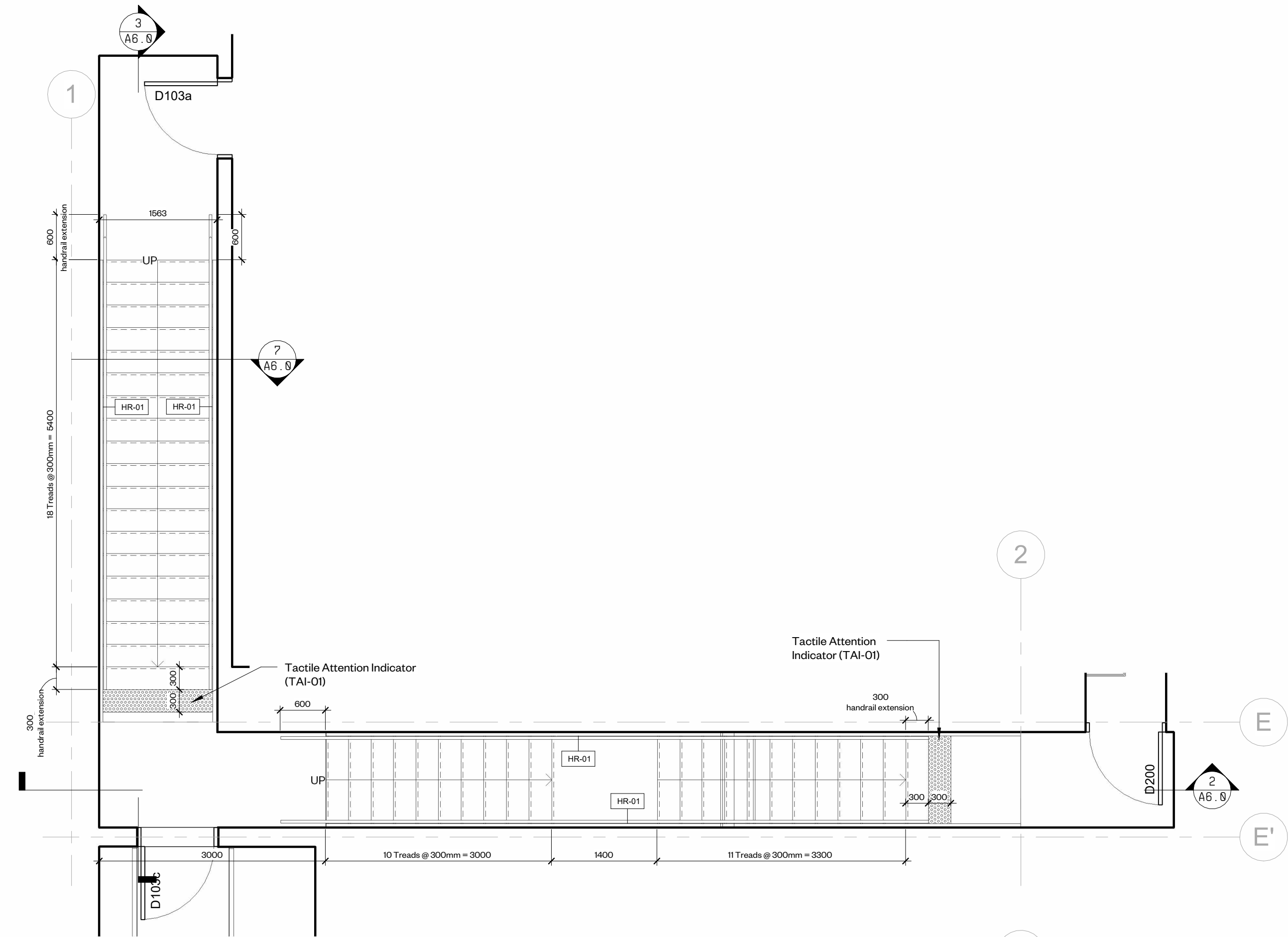
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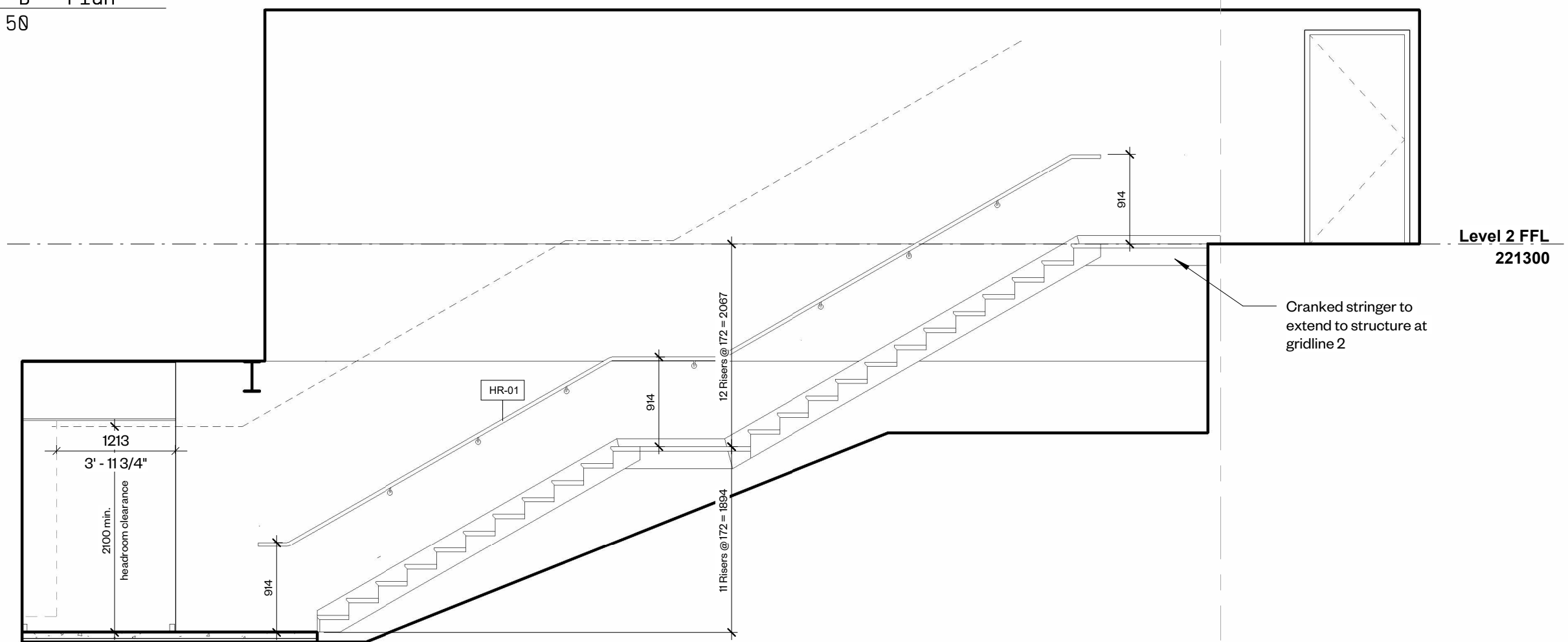
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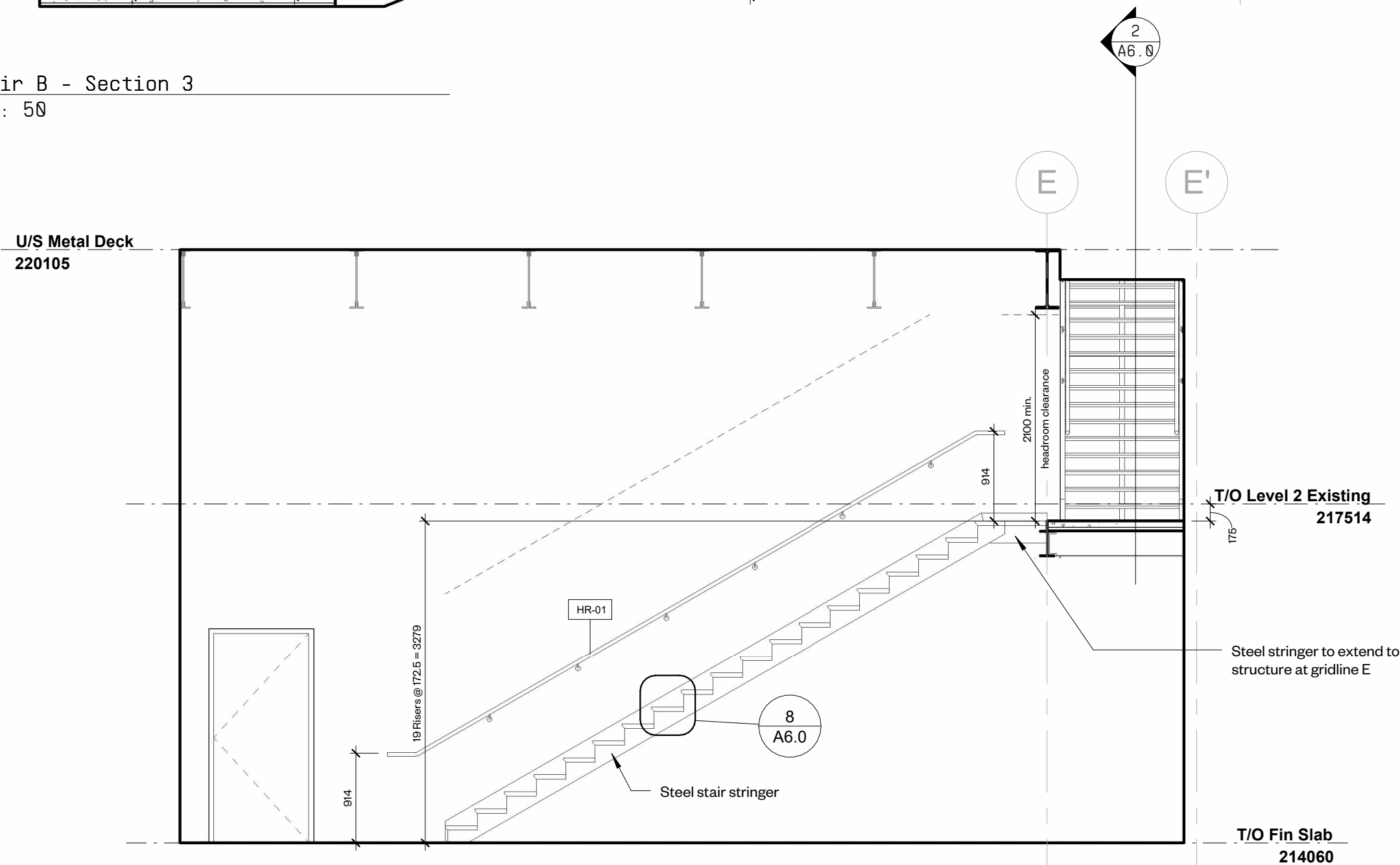
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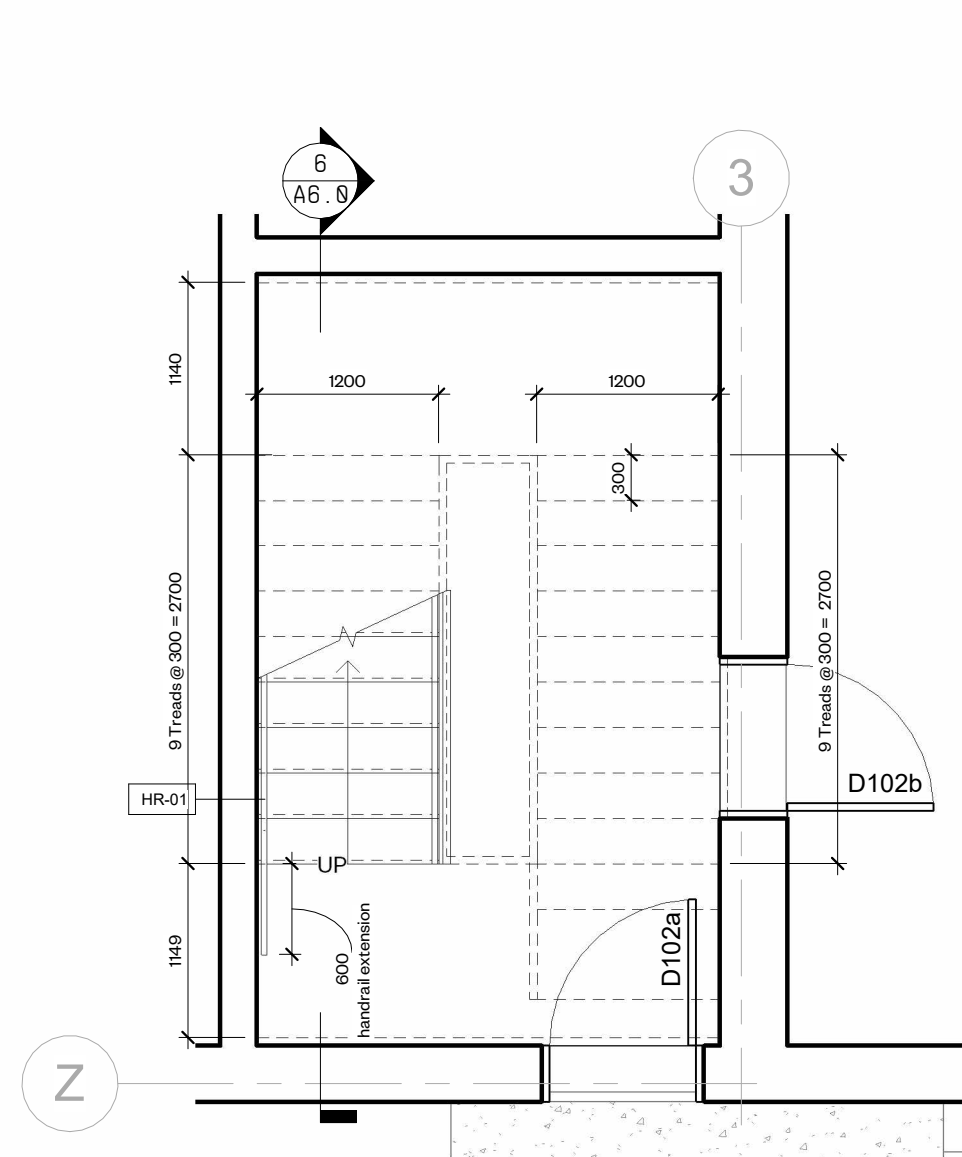
1 Stair B - Plan
1 : 50



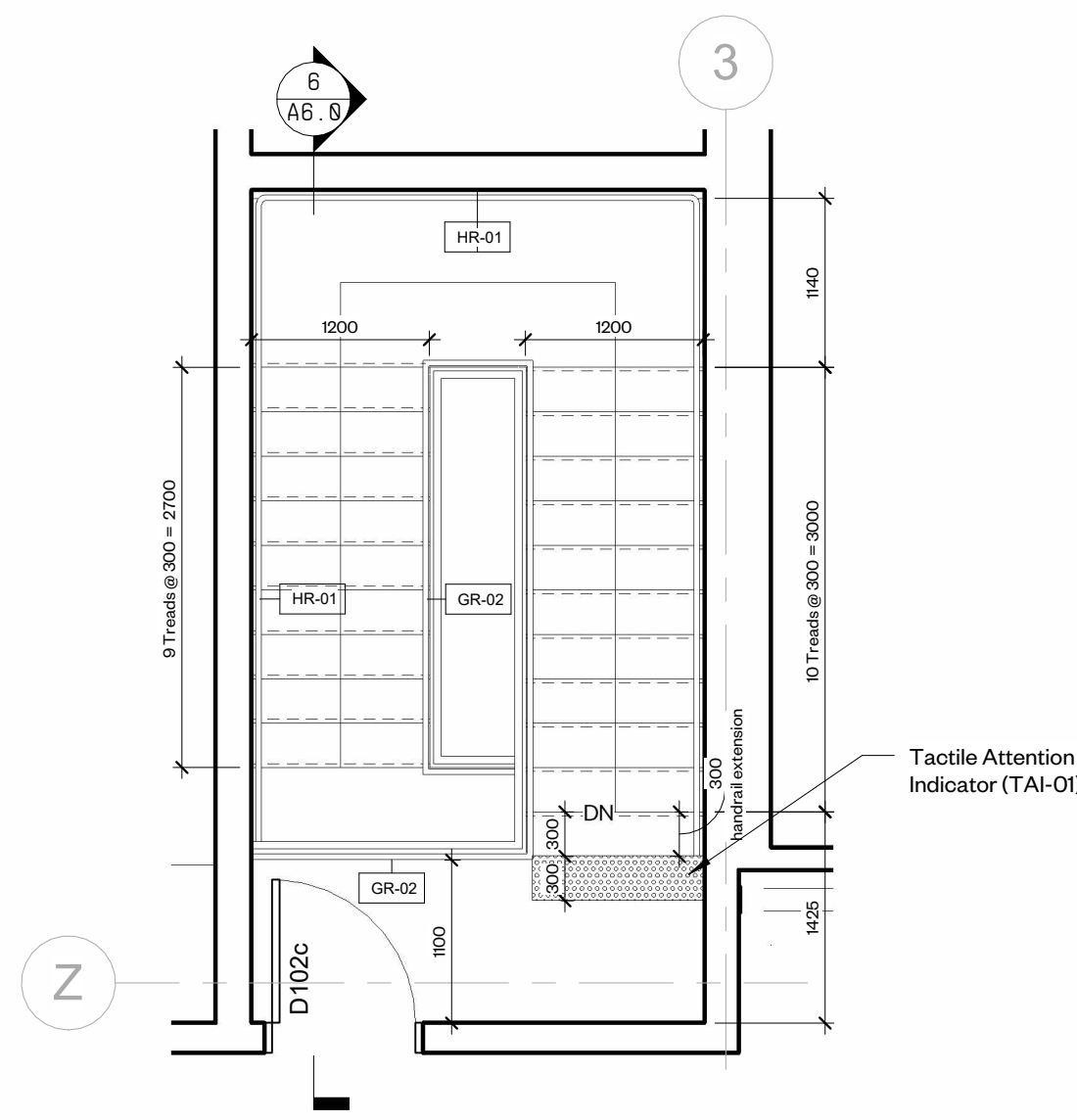
2 Stair B - Section 3
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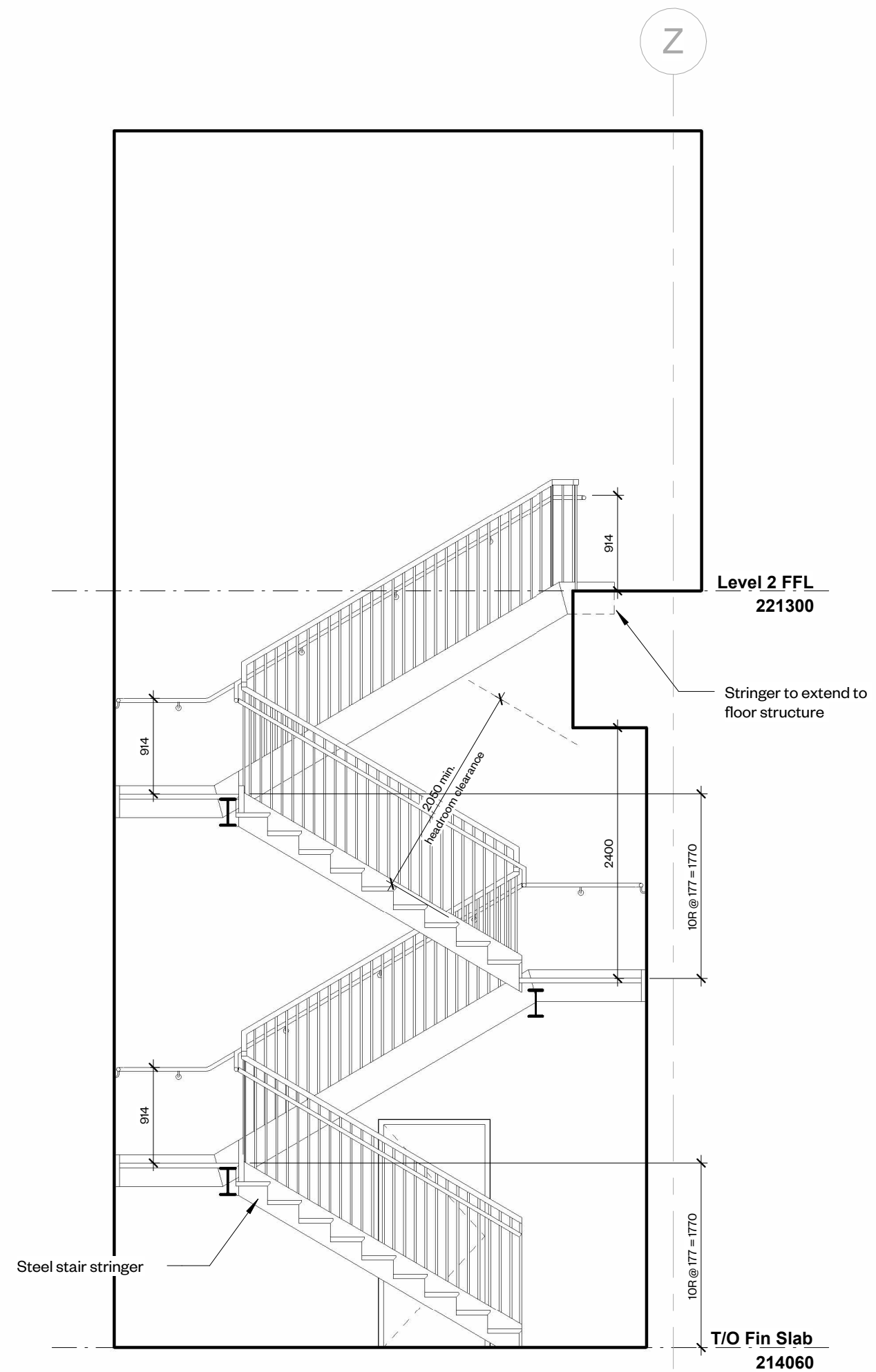
3 Stair B - Section 1
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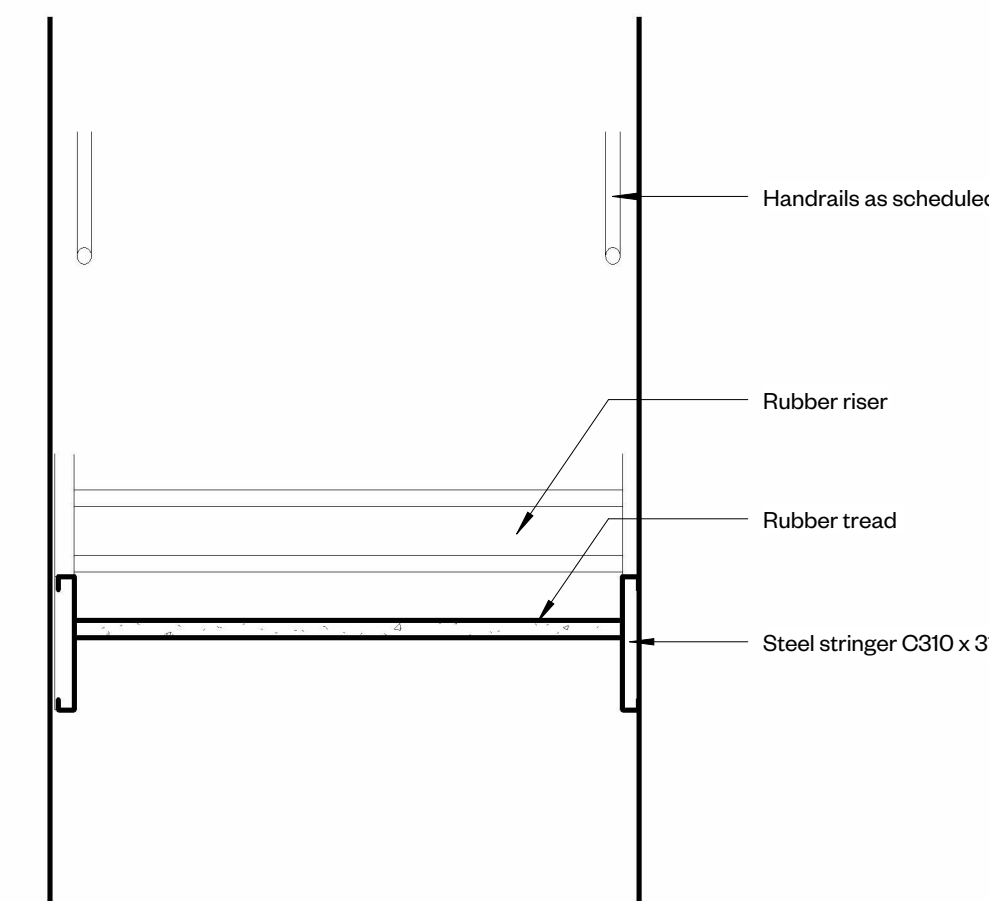
4 Stair A - Level 1 Plan
1 : 50



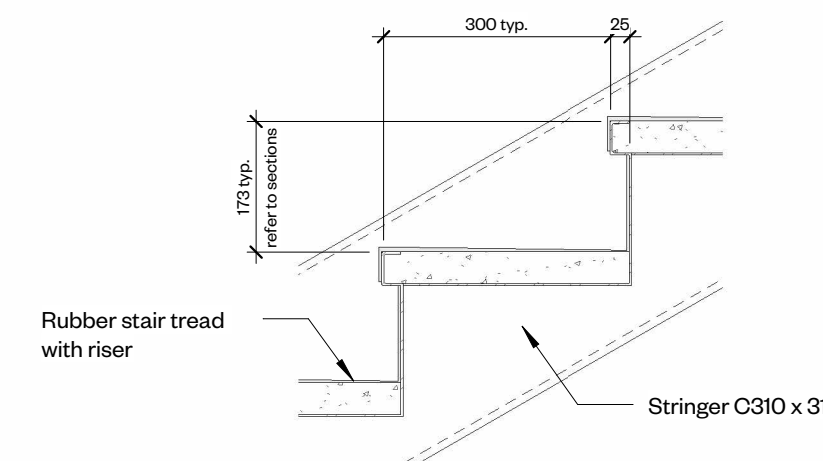
5 Stair A - Level 2 Plan
1 : 50



6 Stair A - Section
1 : 50



7 Typical Stringer Detail
1 : 20



8 Typical Tread Detail
1 : 10

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Stair Details

drawing number

A6.0

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ENGENICO STRUCTURAL ENGINEERS
 7700 PINE VALLEY DRIVE, PO BOX 72071
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 (905) 605-4251
 INFO@ENGENICO.COM

1. IN GENERAL, VERTICAL ADDITION ABOVE EXISTING ONE-STORY CONVENTIONALLY FRAMED INDUSTRIAL BUILDING.
2. PERFORM ALL DEMOLITION WORK PRIOR TO PROCURING MATERIAL. TAKE MEASUREMENTS AND ENSURE ANY AND ALL DISCREPANCIES ARE RESOLVED PRIOR TO PROCEEDING. IMMEDIATELY REPORT DISCREPANCIES TO APPROPRIATE CONSULTANT PRIOR TO PROCEEDING.
3. SUBMIT ALL DOCUMENTATION, DATA SHEETS AND SHOP DRAWINGS PRIOR TO PROCURING MATERIAL. ONLY PROCEED WITH WORK UPON CONSULTANT REVIEW OF SUBMITTALS.

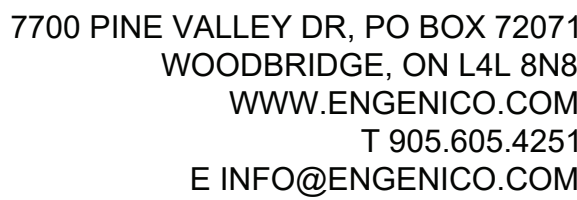
1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SUBMITTAL OF THE REQUIRED SHOP DRAWINGS FOR THIS PROJECT:
2. AT A MINIMUM, SUBMIT THE FOLLOWING SHOP DRAWINGS:
 - 2.1. SHORING OF EARTH AND STRUCTURES
 - 2.2. STRUCTURAL STEEL AND CONNECTIONS
 - 2.2.1. ERECTION DRAWINGS
 - 2.2.2. PIECE DRAWINGS
 - 2.2.3. ANCHOR BOLT SETTINGS
 - 2.3. OPEN WEB STEEL JOISTS AND CALCULATIONS
 - 2.4. CORRUGATED METAL ROOF AND FLOOR DECKING
 - 2.5. CONCRETE MIX DESIGNS
 - 2.6. STEEL REINFORCING BARS (FOR CONCRETE)
 - 2.7. CRYSTALLINE WATERPROOFING DATA SHEETS (WATER TANK)
 - 2.8. WATERSTOP DATA SHEETS (WATER TANK)
 - 2.9. STEEL GRATINGS

1. PROPOSED SCHEDULE OF WORK TO BE COORDINATED WITH ALL SUBTRACTORS, THE CONSULTANT AND OWNER.
2. INSPECT THE EXISTING BUILDING AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS. DETAILS SHOWN MAY BE BASED ON INFORMATION AVAILABLE FROM EXISTING BUILDING DRAWINGS AND A LIMITED VISUAL REVIEW.
3. CHECK ALL DRAWINGS AGAINST ACTUAL CONDITIONS ON SITE PRIOR TO BEGINNING WORK. MAKE ALL NECESSARY ADJUSTMENTS TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
4. PRIOR TO FABRICATION OF ANY NEW STRUCTURE, OPEN UP ALL AREAS TO ALLOW THE INSTALLATION OF THE NEW STRUCTURAL WORK, AS WELL AS THE CONNECTION OF NEW WORK TO THE EXISTING WORK. TAKE ANY AND ALL NECESSARY FIELD MEASUREMENTS, RECORD THEM AND DEVELOP METHODS FOR CONNECTING TO SUIT SITE CONDITIONS FOUND AND TO THE APPROVAL OF THE CONSULTANT. CARRY OUT LOCAL REPAIRS TO THE EXISTING WORK AS NECESSARY AND AS DIRECTED BY THE CONSULTANT.
5. SHORE EXISTING WORK AS REQUIRED UNTIL ALL NEW WORK HAS BEEN COMPLETED AND REVIEWED BY THE CONSULTANT.
6. CUTTING/DRILLING/CORING OPENINGS AND HOLES IN EXISTING STRUCTURES:
 - A. PRIOR TO MAKING ANY OPENINGS IN THE EXISTING BUILDING, PROVIDE THE CONSULTANT WITH A DRAWING INDICATING THE SIZE AND LOCATION OF PROPOSED OPENINGS RELATIVE TO BUILDING CORNERS AND EDGES. EXISTING REINFORCEMENT IN THE VICINITY OF THE NEW OPENING MUST ALSO BE SHOWN.
 - B. UNLESS SPECIFICALLY NOTED OTHERWISE AT THE PROPOSED NEW OPENINGS, FIRST EXISTING REINFORCEMENT (CONCRETE, STEEL, BRICKS, EMBEDDED SCREWS) MAY COVER METERS, RADARS, X-RAYS, SCANNERS, ETC. SUBMIT PROPOSED METHOD TO CONSULTANTS FOR REVIEW.
 - C. AFTER ALL REINFORCEMENT AND SERVICES HAVE BEEN FOUND, NOTIFY CONSULTANT WHO WILL REVIEW THE PROPOSED OPENING LOCATION PRIOR TO CUTTING/DRILLING/CORING. MAKE ANY NECESSARY ADJUSTMENTS TO THE HOLE LOCATION AS DIRECTED BY THE CONSULTANT.
 - D. CORE DRILL NEW HOLES FOR PIPES TO A DIAMETER NOT LARGER THAN THE OUTSIDE PIPE DIAMETER PLUS 1 INCH (25mm). DO NOT CUT OR DRILL THROUGH ANY REINFORCEMENT OR SERVICES WITHOUT PRIOR APPROVAL OF THE CONSULTANT.
 - E. WHERE OPENINGS ARE TO BE CUT, PRE-DRILL THE CORNERS USING CIRCULAR CORE DRILL OR DRILL A SERIES OF HOLES TO PREVENT OVERTURNING AT THE CORNERS.
 - F. IN ANY AREAS WHERE THE CONSULTANT PERMITS THE CUTTING OF EXISTING REINFORCEMENT, THE CONTRACTOR IS TO EXAMINE THE EXISTING REINFORCEMENT, RECORD THE LOCATION AND TYPICAL SIZE, COVER AND ORIENTATION OF ANY REINFORCEMENT THAT WAS CUT. THE CONTRACTOR IS TO MARK THIS INFORMATION ON THE SLEEVING DRAWING AND FORWARD A COPY OF IT TO THE CONSULTANT.
 - G. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR THE LOCATION AND DIMENSIONS OF NEW OPENINGS.
 - H. THROUGHOUT THE EXISTING WORK, THE CONTRACTOR SHALL PROVIDE DETAILS FOR LIMITATIONS ON THE LOCATION, SIZE AND NUMBER OF OPENINGS THROUGH THE EXISTING SLABS. COORDINATE THE PROVISION OF NEW OPENINGS AND NEW REINFORCEMENT WITH THE VARIOUS TRADES AND PROVIDE ANY NECESSARY ADJUSTMENTS AS REQUIRED TO SUIT THE STRUCTURAL DETAILS.
7. SHORE FLOORS AS REQUIRED TO SUPPORT CRANES, HOISTS AND OTHER CONSTRUCTION EQUIPMENT.

1. CONTRACTOR SHALL ENGAGE AN INDEPENDENT AND CERTIFIED AGENT TO PERFORM INSPECTIONS AND TESTING FOR STRUCTURAL WORK. OWNER TO PAY FOR INSPECTIONS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE INSPECTIONS AND TO COMPILE REPORTS TO THE CONSULTANTS AS THEY ARE REQUIRED.
3. **STRUCTURAL INSPECTIONS SHALL BE CONDUCTED FOR:**
 - 3.1. **SOIL BEARING SURFACES**
 - 3.2. **COMPARISON TESTING UNDER FLOOR SLABS AND OTHER ENGINEERED FILL SURFACES**
 - 3.3. **CAST-IN-PLACE CONCRETE COMPRESSIVE STRENGTH, SLUMP AND AIR CONTENT TESTS AS REQUIRED BY BUILDING CODE AND A23.1**
 - 3.4. **REINFORCING BAR MATERIAL, SIZE, SPACING, LENGTHS**
 - 3.5. **STRUCTURAL STEEL AND CONNECTIONS FOR CORROSION, PLUMBNESS, ANCHORAGES, WELDING, BOLTING AND ALIGNMENT**
 - 3.6. **EXTERIOR BUILT-UP ENGINEERED STRUCTURAL STEEL PAINTING**
4. **QUALITY ASSURANCE PLAN SHALL BE PROVIDED IN ACCORDANCE WITH APPLICABLE CODE AND STANDARDS.**
5. **CONSULTANT WILL PROVIDE GENERAL CONFORMANCE REVIEWS DURING CONSTRUCTION ON A SAMPLING BASIS. CONSULTANT WILL NOT PROVIDE INSPECTIONS.**
6. **IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE CONSULTANT WITH FREQUENT UPDATES. THE CONSULTANT WILL PERFORM GENERAL REVIEWS BASED ON THESE UPDATES.**

1. SPECIALTY ITEMS, PRE-ENGINEERED COMPONENTS AND DESIGN/BUILD ELEMENTS ARE THOSE ITEMS WHICH ARE SPECIFIED IN THE CONSTRUCTION DOCUMENTS BUT WHICH REQUIRE DESIGN BY THE MANUFACTURER, SUPPLIER OR INSTALLER, WHICH INCLUDE, BUT ARE NOT LIMITED TO:
 - 1.1 OPEN-WEB-STEEL-JOISTS
 - 1.2 METAL FLOOR AND ROOF DECKING
 - 1.3 STEEL STAIRS AND LADDERS
 - 1.4 PRE-CAST CONCRETE CLADDING AND FLOOR SYSTEMS
 - 1.5 GAUGE-METAL (COLD FORMED STEEL) STUD/TRUCK SYSTEMS
 - 1.6 SKYLIGHTS
 - 1.7 CLADDING SYSTEMS
 - 1.8 STEEL GRATINGS
2. SUBMITTAL SHALL INCLUDE :
 - ERECTION AND/OR DESIGN DRAWINGS AS NECESSARY TO DESCRIBE THE SYSTEM OR COMPONENT AND ITS CONNECTION TO THE PRIMARY STRUCTURE WITH THE SPECIALTY ENGINEER'S SEAL.
 - ON REQUEST: CALCULATIONS BY A LICENSED ENGINEER
3. CONTRACTOR'S DELEGATED ENGINEERS SHALL VISIT THE SITE TO ENSURE THE WORK THEY HAVE SPECIFIED IS IN GENERAL CONFORMITY WITH THEIR SHOP DRAWINGS. AT COMPLETION OF THEIR WORK, CONTRACTOR'S DELEGATED ENGINEERS SHALL SUBMIT SEALED FINAL, GENERAL, CONFORMITY LETTERS.

AES	ARCHITECTURALLY EXPOSED STEEL
ALT	ALTERNATE
ARCH	ARCHITECTURAL
ASL	ACCUMULATED SNOW LOAD
Ⓐ	AT
BCE	BOTTOM CHORD EXTENSION
BLL	BOTTOM LOWER LAYER
BM	BEAM
B, BOT	BOTTOM
BUL	BOTTOM UPPER LAYER
BP	BASE (BEARING) PLATE
c/c , o/o	CENTRE TO CENTRE
℄	CENTRE LINE
CANT	CANTILEVER
CA	COLUMN ABOVE
CB	COLUMN BELOW
CF	FACTORED COMPRESSIVE FORCE, kN
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
C/W	CONNECT WITH
DIA,ø	DIAMETER
DM	DIMENSION
DO	DITTO
DL	DEAD LOAD
EA	EACH
EE	EACH END
EF	EACH FACE
EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EW	EACH WAY
EX	EXISTING
EXT	EXTERIOR
f	FACTORED
FDN	FOUNDATION
FF	FAR FACE
FIN	FINISHED
FL	FLOOR
FTG	FOOTING
FV	FIELD VERIFICATION REQUIRED BY CONTRACTOR AND TRADES
GA	GAUGE
GALV	HOT DIPPED GALVANIZED
HDG	HOT DIPPED GALVANIZED
HH	HOOKED EACH END
H, HORIZ	HORIZONTAL
HI	FACTORED HORIZONTAL FORCE, kN
HSC	HORIZONTALLY SLOTTED CONNECTION
IF	INSIDE FACE
INT	INTERIOR
K	KILOGRAM
kN	KILONEWTON
kNm	KILONEWTON METRE
kN/m	KILONEWTON PER SQUARE METRE
kN/m	KILONEWTON PER METRE
kPa	KILOPASCAL
LB	POUNDS
LG	LONG
LL	LIVE LOAD
LLV	LONG LEG VERTICAL
LLH	LONG LEG HORIZONTAL
m	METRE
MAX	MAXIMUM
►	BENDING MOMENT CONNECTION
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
MPa	MEGAPASCAL
MKT	FACTORED BENDING MOMENT ABOUT X-X AXIS, kN-m
MYI	FACTORED BENDING MOMENT ABOUT Y-Y AXIS, kN-m
NF	NEAR FACE
NTS	NOT TO SCALE
N-S	NORTH-SOUTH
OF	OUTSIDE FACE
OWSJ	OPEN WEB STEEL JOIST
℄	PLATE
PSF	POUNDS PER SQUARE FOOT
PLF	POUNDS PER LINEAR FOOT
#	POUNDS
RI	FACTORED VERTICAL REACTION, kN
REIN†	REINFORCE, REINFORCEMENT
REQ'D	REQUIRED
R/W	REINFORCE WITH
SDF	STEP DOWN FOOTING
SQ	SQUARE
T	TOP
TM	FACTORED TORSIONAL MOMENT, kN-m
TI	FACTORED TENSION FORCE, kN
TEMP	TEMPERATURE
TLL	TOP LOWER LAYER
TUL	TOP UPPER LAYER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
U/S	UNDERSIDE
V, VERT	VERTICAL
VI	FACTORED VERTICAL SHEAR, kN
VSC	VERTICALLY SLOTTED CONNECTION
WFF	WELDED WIRE FABRIC, WELDED WIDE FLANGE



METRIC DIMENSIONS ARE IN MILLIMETRES AND
IMPERIAL DIMENSIONS ARE IN FEET-INCHES OR
INCHES. ALL UNLESS NOTED OTHERWISE.

DO NOT SCALE THIS DRAWING.

REPORT INCONSISTENCIES AND OMISSIONS TO THE
CONSULTANT BEFORE COMMENCING WITH THE
WORK.

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USED, REPRODUCED, OR REVISED WITHOUT
WRITTEN PERMISSION BY THE CONSULTANT.



☐ Review
 ☒ Permit
 ☒ Tender
 ☐ Construction
 ☐ Change

4. Issued for Tender	March 04, 2024
3. Issued for Permit and Tender	February 16, 2024
2. Issued for 90% Progress	December 22, 2023
1. Issued for 75% Progress	November 17, 2023

Project

Accord Plastics Corp.
Rear Addition

Structura

56 Edilcan Drive
Concord, Ontario
L4K 3S5

Date Last Edit	March 04, 2024
Drawn	SDA
Checked	MGA
File Name	S_AccordPlasti
Project No.	E23109

S101



METRIC

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IMPERIAL DIMENSIONS ARE IN FEET-INCHES OR
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FOUNDATION

- PRIOR TO BIDDING, ALL CONTRACTORS SHALL FULLY FAMILIARIZE THEMSELVES WITH ALL CONTRACT DOCUMENTS AND SHALL VISIT THE SITE TO ENSURE THAT THE EXTENT OF THE WORK IS UNDERSTOOD. ALL CONTRACTORS SHALL FULLY UNDERSTAND THE EXISTING SURFACE AND SUB-SURFACE CONDITIONS DESCRIBED IN THE GEOTECHNICAL REPORT AND DRAWINGS. EXTRA COSTS SUBMITTED BY THE CONTRACTOR WILL NOT BE APPROVED DUE TO THE CONTRACTORS MISUNDERSTANDING OF THE WORK.
- ALL PROVIDED DIMENSIONS AND DIMENSIONS NOT PROVIDED SHALL BE SITE VERIFIED AND COORDINATED WITH ARCHITECTURAL DRAWINGS. IMMEDIATELY REPORT ANY DISCREPANCIES TO CONSULTANTS PRIOR TO PROCEEDING.

- FOUNDATION DESIGN IS BASED ON A GEOTECHNICAL REPORT PREPARED BY:**

COMPANY:
REPORT NO:
REPORT DATE:
UPDATE LETTER:

CANADA ENGINEERING SERVICES INC.
230034-G1
APRIL 15, 2023
NONE

- THIS INFORMATION IS GIVEN SOLELY AS A GUIDE. NO RESPONSIBILITY IS ACCEPTED BY THE OWNER OR THE CONSULTANT FOR ITS CORRECTNESS; NOR SHALL ITS ACCURACY OR ANY OMISSIONS AFFECT THE PROVISION OF THIS CONTRACT.

- CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC.

- CONTRACTOR SHALL PROVIDE FOR THE DESIGN AND INSTALLATION OF CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY AND ADEQUATELY RETAIN THE EARTH BANKS AND ANY EXISTING STRUCTURES. SUBMIT SHOP DRAWINGS SEALED BY LICENSED ENGINEER PRIOR TO PROCEEDING WITH WORK.

- ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR MASONRY HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETE IN PLACE AND HAVE ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATIONS OF SUCH BRACING AND PROTECTION. FOOTING AND TRENCH BACKFILL WITHIN THE BUILDING PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED.

- REFER TO FOUNDATION PLAN FOR REQUIRED SOIL BEARING RESISTANCE. IF BEARING RESISTANCE CANNOT BE ACHIEVED ADVISE THE CONSULTANT PRIOR TO PROCEEDING. THE GEOTECHNICAL CONSULTANT SHALL SUBMIT REPORTS TO THE CONSULTANT REGARDING THE FINDINGS OF THEIR SITE VISITS.

- ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH THE NEW CONSTRUCTION SHALL BE REMOVED.

- A REPRESENTATIVE OF THE SOILS INSPECTION COMPANY SHALL BE PRESENT ON SITE DURING THE DRILLING AND CONCRETING OF CAISSONS. PROPER LOGS ARE TO BE KEPT OF THE SOIL CONDITIONS ENCOUNTERED, INCLUDING BEARING PRESSURES, SKIN FRICTION RESISTANCE, DATES, LENGTHS, CUT-OFF ELEVATIONS, CONCRETE DATA, ETC.

- ALL EXTERIOR FOUNDATIONS SHALL EXTEND A MINIMUM OF 4'-0" (1220mm) BELOW FINISHED GRADE FOR FROST PROTECTION. STEPPED FOOTINGS WHERE REQUIRED TO MAINTAIN THIS CONDITION OR TO MEET ELEVATIONS OF ADJACENT FOOTINGS. REFER TO TYPICAL DETAILS FOR STEPPED FOOTINGS. FOUND ADJACENT FOOTINGS AT THE SAME ELEVATION, UNLESS NOTED OTHERWISE.

CONCRETE COLD WEATHER REQUIREMENTS

(SEE ALSO CAN/CSA-A23.1 CLAUSE 21, EXCEPT THE FOLLOWING MINIMUM REQUIREMENTS MUST ALSO BE MET)

- FORECAST AIR TEMPERATURE NOT BELOW -2°C:**

A. IF CONCRETE TEMPERATURE DROPS BELOW 5°C AT POINT OF POURING, THE MIXING WATER SHALL BE HEATED TO MAINTAIN A MINIMUM CONCRETE TEMPERATURE OF 10°C.

B. CONCRETE SHALL NOT BE PLACED ON OR AGAINST ANY SURFACE WHICH IS AT A TEMPERATURE LESS THAN 5°C.

C. CONTRACTOR SHALL BE PREPARED TO COVER SLAB IF UNEXPECTED DROIP IN AIR TEMPERATURE SHOULD OCCUR.

D. CONCRETE TEMPERATURE SHALL BE MAINTAINED ABOVE 10°C FOR AT LEAST 1 DAY OR UNTIL THE CONCRETE REACHES 70% OF SPECIFIED STRENGTH.

- FORECAST AIR TEMPERATURE BELOW 2°C BUT NOT BELOW -4°C:**

(NOTE – FOR THESE CONDITIONS STRUCTURAL CONCRETE TOPPINGS ON METAL DECK SHALL SATISFY THE REQUIREMENT OF 3)

- A. FORMS AND STEEL SHALL BE FREE FROM ICE AND SNOW.

B. MIXING WATER SHALL BE HEATED TO GIVE A MINIMUM CONCRETE TEMPERATURE OF 10°C AT POINT OF POUR.

C. CONCRETE SHALL NOT BE PLACED ON OR AGAINST ANY SURFACE WHICH IS AT A TEMPERATURE OF LESS THAN 5°C.

D. SLABS SHALL BE COVERED WITH CANVAS OR SIMILAR, KEPT A FEW INCHES CLEAR OF SURFACE.

E. IN WINDY WEATHER, STOREY BELOW SLAB SHALL BE ENCLOSED.

F. PROTECTION SHALL BE MAINTAINED FOR AT LEAST 3 DAYS.

G. CONCRETE TEMPERATURE SHALL BE MAINTAINED ABOVE 10°C FOR AT LEAST 3 DAYS OR UNTIL THE CONCRETE REACHES 7 MPa.

- FORECAST AIR TEMPERATURE BELOW -4°C:**

A,B,C,D, AS UNDER POINT 2.

- E. STOREY BELOW SHALL BE ENCLOSED AND ARTIFICIAL PROVIDED. HEATING TO BE STARTED AT LEAST ONE HOUR AHEAD OF POURING AND MAINTAINED FOR A MINIMUM OF 3 DAYS AFTER TEMPERATURE OF THE CONCRETE AT ALL SURFACES SHALL BE KEPT AT A MINIMUM OF 20°C FOR 3 DAYS, OR 10°C FOR 1 DAY, CONCRETE SHALL BE KEPT ABOVE FREEZING TEMPERATURES UNTIL IT REACHES MPa STRENGTH.

G. ENCLOSURE MUST BE CONSTRUCTED SO THAT AIR CAN CIRCULATE OUTSIDE THE OUTER EDGES AND MEMBERS.

CONCRETE

- CONCRETE CONFORM TO CAN/CSA-A23.1-14, NORMAL WEIGHT, MEETING THE FOLLOWING REQUIREMENTS UNLESS NOTED OTHERWISE:

CLASS OF CONCRETE	MIN COMPRESS STRENGTH AT 28 DAYS (MPa)	NOMINAL SIZE OF AGGREGATE (mm)	SLUMP (mm)	AIR (%)	MAX W/C RATIO
EXTERIOR CONCRETE					
PIERS & FOOTINGS	25	20	75	4 – 7	0.55
FOUNDATION AND RETAINING WALLS	25	20	75	4 – 7	0.55
INTERIOR CONCRETE					
SLAB ON GRADE	25	20	65	–	0.50
SUSPENDED SLABS AND BEAMS	30	20	65	–	0.50
CONCRETE ON STEEL DECK	30	13	40	–	0.50
MASONRY CORE FILLS	15	10	175	–	–

NOTES:

- A. THE SLUMP SPECIFIED IS BEFORE THE ADDITION OF SUPERPLASTICIZER WHEN SUPERPLASTICIZER IS USED, THE SLUMP BEFORE THE ADDITION OF ADMIXTURES SHALL BE SPECIFIED.

B. ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE NOT PERMITTED.

C. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND SHALL BEAR THE SEAL OF AN ENGINEER LICENSED IN THE PROVINCE OF THE WORK FOR THE REVIEW BY THE STRUCTURAL ENGINEER. THE MIX DESIGN SHALL STATE THE PROJECT NAME AND THE INTENDED USE OF THE CONCRETE. THE USE OF ANY ADMIXTURES MUST BE REVIEWED BY THE STRUCTURAL ENGINEER.

- A. THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS SHALL NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 124 MPa (RETESTS SHALL NOT EXCEED THE VALUE BY MORE THAN AND ADDITIONAL 20 MPa) AND

B. THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25

- USE TYPE GU PORTLAND CEMENT FOR ALL CONCRETE, UNLESS NOTED OTHERWISE. USE TYPE HS CEMENT WHEN DRAWINGS, SPECIFICATIONS, GEOTECHNICAL REPORT OR ENVIRONMENT SITE ASSESSMENT SHOW LOW TO HIGH AMOUNTS OF SOIL SULPHATES.

- A CONCRETE VIBRATOR SHALL BE USED FOR ALL STRUCTURAL CONCRETE. CONTRACTOR SHALL ENSURE CONCRETE IS FULLY CONSOLIDATED.

- CONTRACTOR IS FULLY RESPONSIBLE FOR THE COMPLETE DESIGN AND CONSTRUCTION OF FORMWORK INCLUDING SHORINGS, BRACINGS, STRIPPING, RESHORING AND SEQUENCING.

- ALL CONCRETE SHALL BE POURED WITHIN TWO (2) HOURS OF LEAVING PLANT.

- ALL FORMWORK AND FALSEWORK SHALL BE DESIGNED AND SUPERVISED BY A LICENSED PROFESSIONAL ENGINEER.

- FOR FLOOR SLABS, DESIGN THE CONCRETE MIXTURE WITH AGGREGATE GRADATION AND WATER-TO-CEMENTING MATERIALS RATIO THAT MINIMIZE SHRINKAGE.

- THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, ETC. AS REQUIRED BY ALL TRADES, BEFORE THE CONCRETE IS POURED. THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND CIVIL DRAWINGS, AS WELL AS THE STRUCTURAL DRAWINGS FOR THE LOCATION, QUANTITY, AND SIZE OF ALL OPENINGS, SLEEVES, ETC. HOWEVER, OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWING SHALL BE INSTALLED ONLY AFTER REVIEWED BY THE STRUCTURAL ENGINEER.

- LOCATION OF ALL CONSTRUCTION JOINTS NOT SHOWN ON DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO DETAILING OF REINFORCING. ALL CONSTRUCTION JOINTS TO BE CLEARLY SHOWN IN REBAR DETAIL DRAWINGS.

- A. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE MADE IN BEAMS, UNLESS SHOWN OR REVIEWED AND APPROVED BY THE CONSULTANT.

B. VERTICAL CONSTRUCTION JOINTS MAY BE MADE ONLY AT MID-SPAN OF BEAMS OR SLABS UNLESS OTHERWISE NOTED OR SHOWN OR DIRECTED AND THEIR LOCATION SHALL BE REVIEWED AND APPROVED BY THE CONSULTANT.

- OPENINGS, SLEEVES, EMBEDDED DUCTS:

- A. NO SLEEVES SHALL BE PLACED VERTICALLY OR HORIZONTALLY THROUGH BEAMS UNLESS REVIEWED AND APPROVED BY THE CONSULTANT.

B. NO OPENINGS SHALL BE MADE IN FLAT PLATE OR FLAT SLAB COLUMN STRIPS EXCEPT AS SHOWN ON TYPICAL DETAILS AND PLANS OR UNLESS REVIEWED AND APPROVED BY THE CONSULTANT.

- IN HOUSEKEEPING PADS AND FLOATING SLABS PROVIDE 10 TO 10 INCHES c/c MIDDLE EACH WAY UNLESS OTHERWISE NOTED OR SHOWN. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZE OF PADS.

- PROVIDE CAMBER TO SLABS AND BEAMS AS NOTED ON PLANS AND/OR DETAILS. CAMBER BOTH UNDERSIDE AND TOP OF CONCRETE TO MAINTAIN THE SLAB AND BEAM DEPTH SHOWN ON THE DRAWINGS UNLESS OTHERWISE NOTED OR SHOWN.

CONCRETE COVER TO REINFORCING STEEL SHALL CONFORM TO THE APPLICABLE REQUIREMENT LISTED BELOW THAT RESULTS IN THE GREATEST AMOUNT OF COVER.		
CONCRETE CAST AGAINST EARTH	3" (75mm)	
CONCRETE CAST IN FORMS, BUT EXPOSED TO EARTH OR WEATHER		
SLAB TOP BARS	1½" (40mm)	
SLAB BOTTOM BARS	1½" (40mm)	
BEAMS, GIRDERS, COLUMNS (TO TIES), STIRRUPS	1½" (40mm)	
WALLS	1½" (40mm)	
CONCRETE NOT EXPOSED TO WEATHER AND NOT IN CONTACT WITH EARTH		
SLAB BOTTOM BARS (2HR FIRE RATING OR LESS)	1" (25mm)	
SLAB TOP BARS	1" (25mm)	
BEAMS, GIRDERS, COLUMNS (TO TIES), STIRRUPS	1½" (40mm)	
WALLS EXPOSED TO FIRE ON BOTH SIDES (VERTICAL REINFORCING)	2" (50mm)	
OTHER WALLS	1" (25mm)	

REINFORCING STEEL BARS

- REINFORCED CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-A23.1-14.

- REINFORCING STEEL: BILLET STEEL CONFORMING TO CAN/CSA-C30.08M2 (R2007), GRADE 400. USE GRADE 400W WHERE WELDING IS NOTED.

- BENDING, CUTTING AND PLACING OF REINFORCING STEEL SHALL CONFORM TO CAN/CSA-A23.1-14 AND CAN/CSA A23.3-14.

- WELDING SHALL CONFORM TO CSA-W186-M1990 (R2007).

- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO CSA G30.5, Fy = 386 MPa. PROVIDE WWF IN FLAT SHEETS ONLY.

- ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE 'MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION', AS MODIFIED BY THE PROJECT DRAWINGS AND MODIFICATIONS. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION OCCURS.

- ALL REINFORCING SHALL BE ACCURATELY PLACED AND SUPPORTED BY CONTINUOUS METAL OR OTHERWISE APPROVED CHAIRS. IF REQUIRED, ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR, AT NO COST, TO SECURE MAIN BARS AGAINST DISPLACEMENT.

- EPOXY COATED STEEL AND/OR CORROSION-INHIBITING ADMIXTURE SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:
 - CURBS, PARAPETS, UPSTANDS AND GUARDS AT FINISHED GRADE
 - WHERE CONCRETE IS EXPOSED
 - EXTERIOR STAIRS

- FOR A615 REQUIREMENTS:
 - THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS SHALL NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 124 MPa (RETESTS SHALL NOT EXCEED THE VALUE BY MORE THAN AND ADDITIONAL 20 MPa) AND
 - THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25

- SPLICES AT POINTS OF MAXIMUM TENSILE STRESS SHALL BE AVOIDED. ALL TENSION SPLICES SHALL BE APPROVED BY THE ENGINEER. MINIMUM LAP SHALL BE 36 BAR ϕ .

- MINIMUM CLEAR DISTANCE BETWEEN PARALLEL BARS SHALL BE GREATER THAN THE LARGEST OF THE FOLLOWING:
 - 1.5 TIMES BAR DIAMETER.
 - 1.35 TIMES MAXIMUM SIZE OF AGGREGATE.
 - 1" (25mm) MINIMUM.

- CONTINUOUS AND TEMPERATURE REINFORCING BARS SHALL BE LAPPED 24 BAR ϕ OR 18" (450mm) MINIMUM AT SPLICE OR AT CORNERS. TERMINATE CONTINUOUS BARS AT NON CONTINUOUS ENDS WITH STANDARD HOOK.

- ALL DOWELS SHALL HAVE A MINIMUM EMBEDMENT EQUIVALENT TO STRAIGHT TENSION EMBEDMENT LENGTH CORRESPONDING TO THE SIZE OF BAR. DOWELS FROM WALLS TO SLABS SHALL HAVE A MINIMUM EMBEDMENT OF 600 mm INTO WALLS AND SLABS UNLESS OTHERWISE NOTED OR SHOWN.

- PROVIDE DOWELS TO WALLS AND COLUMNS SIMILAR IN NUMBER SIZE, AND SPACING TO THE VERTICAL STEEL IN THE WALL OR COLUMN ABOVE UNLESS OTHERWISE NOTED OR SHOWN.

- REINFORCE SLABS ON GRADE, INCLUDING SIDEWALKS, WITH WWF 152x152 MW34.9 x MW34.9 UNLESS OTHER REINFORCEMENT IS SHOWN.

- LAP SPLICES FOR WELDED WIRE FABRIC (WWF) SHALL BE:
 - 152x152 WWF 20" (500mm)
 - 102x102 WWF 14" (350mm)
 - 51x51 WWF 10" (250mm)

- SUBMIT SHOP DRAWINGS OF REINFORCING STEEL FOR INFORMATION ONLY, ANY PROPOSED CHANGES TO REINFORCING STEEL SUCH AS SIZE, LOCATION AND SPACING DIFFERENT FROM THAT SHOWN ON THE CONTRACT DOCUMENT SHALL BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION THROUGH THE RFI PROCESS AND PROVIDED PRIOR TO CONSTRUCTION. TRADEBAR SHOP DRAWINGS SHALL NOT REPLACE DESIGN DOCUMENTS FOR CONSTRUCTION OR FIELD INSPECTIONS.

DEFLECTIONS

- TYPICAL HORIZONTAL ELEMENTS (NOT SUPPORTING CLADDING) HAVE BEEN DESIGNED SO THAT THE THEORETICAL DEFLECTIONS WILL NOT EXCEED THE FOLLOWING VALUES:

DEFLECTION CRITERIA		
REINFORCED CONCRETE MEMBERS		
TYPE OF MEMBER	DEFLECTION TO BE CONSIDERED	DEFLECTION LIMITATION
ROOF OR FLOOR CONSTRUCTION SUPPORTING NONSTRUCTURAL ELEMENTS LIKE BEAMS DAMAGED BY LARGE DEFLECTIONS	THAT PART OF THE TOTAL DEFLECTION OCCURRING AFTER ATTACHMENT OF NONSTRUCTURAL ELEMENTS (SPLUM OR LONG-TERM DEFLECTION DUE TO ALL SUSTAINED LOADS AND THE IMMEDIATE DEFLECTION DUE TO ANY ADDITIONAL LIVE LOAD)	SPAN/ 360
STRUCTURAL STEEL MEMBERS		
TYPE OF MEMBER	DEFLECTION TO BE CONSIDERED	DEFLECTION LIMITATION
SIMPLE SPAN MEMBERS OF FLOORS AND ROOFS SUPPORTING CONSTRUCTION AND FINISHES NOT SUSCEPTIBLE TO CRACKING	LIVE LOAD	SPAN / 360
	TOTAL LOAD	SPAN / 240
SIMPLE SPAN MEMBERS OF FLOORS AND ROOFS SUPPORTING CONSTRUCTION AND FINISHES SUSCEPTIBLE TO CRACKING	LIVE LOAD	SPAN / 360
	TOTAL LOAD	SPAN / 240

- SECOND FLOOR OWSJ DESIGNED BY OTHERS SHALL HAVE OTHER CRITERIA AS SPECIFIED ON PLANS.

- PERIMETER OR SPANDREL ELEMENTS SUPPORTING MASONRY WALLS, HAVE BEEN DESIGNED FOR AN ALLOWABLE LONG TERM INCREMENTAL DEFLECTION OF SPAN/ 480.

- THE STRUCTURE HAS BEEN DESIGNED ASSUMING THAT THE INSTALLATION OF NON STRUCTURAL ELEMENTS SUCH AS CLADDING, MECHANICAL AND ELECTRICAL SERVICES AND THE LIKE, WILL NOT COMMENCE UNTIL AT LEAST ONE MONTH AFTER THE REINFORCED CONCRETE SLAB SUPPORTING THE NON STRUCTURAL ELEMENTS HAS BEEN POURED AND THE RESHORES REMOVED.

- THE STRUCTURE HAS BEEN DESIGNED TO LIMIT THE MAXIMUM INTERSTOREY DRIFT UNDER 1/ 10 HOURLY WIND PRESSURE TO H/ 500, WHERE H IS THE FLOOR TO FLOOR HEIGHT BETWEEN TWO ADJACENT FLOORS. UNDER SEISMIC LOADS, THE INTERSTOREY DRIFT HAS BEEN LIMITED TO 0.025 Hs, WHERE Hs IS THE HEIGHT OF THE STOREY.

- NON STRUCTURAL ELEMENTS SUCH AS CLADDING, MECHANICAL AND ELECTRICAL SERVICES AND SUPPORTS, AND THE LIKE, MUST BE DESIGNED AND DETAILED TO ACCOMMODATE THE ANTICIPATED MOVEMENTS NOTED ABOVE.

MASONRY

- CONCRETE BLOCK MASONRY SHALL BE IN ACCORDANCE WITH CSA-S304.1-14.

- MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH CSA-A371-14.

- CONCRETE BLOCK SHALL CONFORM TO CSA A165-04(R2014) CLASSIFICATION H/15/A/M

- H = HOLLOW

15 = 15 MPa

A = STANDARD

M = MOISTURE CONTROLLED

- USE ONLY TYPE 'S' MORTAR CONFORMING TO CSA-A179-14. MORTAR SHALL ATTAIN MINIMUM COMPRESSIVE STRENGTH OF 12 MPa AT 28 DAYS.

- MASONRY WIRE REINFORCING SHALL CONFORM TO ASTM A185-04(R2014). PROVIDE CONTINUOUS JOINT REINFORCEMENT EVERY CORNER AND ELSEWHERE AS INDICATED IN SPECIFICATIONS.

- CONNECTORS SHALL CONFORM TO CSA A370-14.

- CONSTRUCTION REQUIREMENTS:**

- 7.1. PROVIDE 400 mm DEEP BOND BEAMS AT THE TOPS OF ALL WALLS AND THE BOTTOM OF INTERIOR PARTITION WALLS. USE SPECIAL 'BOND BEAM UNIT' TO PROVIDE CONTINUITY OF VERTICAL REINFORCING BARS. PROVIDE 2-15M CONTINUOUS TOP AND BOTTOM UNO, LAP SPLICE 800 MM.

7.2. INSTALL VERTICAL CONTROL JOINTS IN WALLS AT 7500 c/c MAX. LOCATE JOINTS AT LATERAL SUPPORTS PROVIDED BY COLUMNS. PILASTERS, CORNERS AND INTERSECTING WALLS. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS

7.3. UNLESS NOTED OTHERWISE, PROVIDE 400mm DEEP REINFORCED LINTEL BEAMS OVER ALL OPENINGS. REINFORCE WITH 2-15M FOR OPENINGS UP TO 1200mm WIDE AND 2-20M FOR OPENINGS UP TO 2400mm WIDE. EXTEND BARS 600mm BEYOND OPENING.

7.4. PROVIDE 400mm BOND BEAM ABOVE AND BELOW INTERSECTIONS WITH STRUCTURAL WIDE-FLANGE BEAMS AND HSS BEAMS. REINFORCE BOND BEAMS WITH 2-15M CONT.

7.5. PROVIDE CONTINUOUS DOVETAIL ANCHOR SLOTS AND KEYS TO MASONRY AT ALL VERTICAL CONCRETE SURFACES (WALLS AND COLUMNS). DOWEL ALL ENDS OF ALL BOND COURSES TO WALLS AND COLUMNS WITH 2-15M DOWELS x 750 LONG.

7.6. PROVIDE LINTELS OVER ALL OPENINGS OR RECESSES IN MASONRY WALLS. INCLUDING THOSE FOR MECHANICAL OR ELECTRICAL SERVICES OR EQUIPMENT.

7.7. SEE TYPICAL DETAILS FOR Lintel SIZES FOR NON-LOAD BEARING MASONRY WALLS AND VENEER

7.8. CONCRETE OR STEEL BEAMS BEARING ON MASONRY WALLS SHALL HAVE A MINIMUM OF 8" (200mm) (HORIZONTAL) BEARING ON MINIMUM OF 16" (400mm) (VERTICAL) OF SOLID MASONRY. CONCRETE SLABS SHALL HAVE A MINIMUM OF 8" (200mm) BEARING (HORIZONTAL) ON MINIMUM OF 16" (400mm) (VERTICAL) OF SOLID MASONRY.

7.9. MECHANICAL PIPES AND ELECTRICAL CONDUITS WHICH PASS THROUGH MASONRY WALLS DO NOT REQUIRE SLEEVES, UNLESS OTHERWISE INDICATED IN THE PROJECT SPECIFICATIONS. MECHANICAL OR ELECTRICAL DRAWINGS. IF SLEEVES ARE REQUIRED, INSTALL SLEEVES BEFORE GROUTING. DO NOT CUT ANY REINFORCING WHICH MAY INTERFERE WITH SLEEVE PLACEMENT. CORING OPENINGS IN GROUTED MASONRY IS NOT PERMITTED. NOTIFY ENGINEER IN ADVANCE OF ADVANCE OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. NO PIPES OR ELECTRICAL CONDUIT SHALL PASS THROUGH MASONRY LINTELS UNLESS SPECIFICALLY DETAILED.

7.10. MASONRY WALLS TO BE RUNNING BOND WITH FULL MORTAR BEDS UNLESS NOTED OTHERWISE.

- REINFORCED MASONRY:**

- A. REINFORCING STEEL SHALL BE PLACED AT THE CENTER OF THE BLOCK.

B. GROUT FOR REINFORCED CELLS, BOND BEAMS, LINTELS, AND CELLS CONTAINING DOWELS, ANCHOR BOLTS AND INSERTS IS DESIGNATED "MASONRY CORE FILLS."

C. DOWELS FROM FOUNDATIONS, BEAMS OR SLABS SUPPORTING THE WEIGHT OF MASONRY WALL, TO MATCH VERTICAL REINFORCEMENT IN WALL.

D. PROVIDE THE FOLLOWING LAPS FOR THE REINFORCEMENT INDICATED:

- WIRE LADDER OR MESH 12" (300mm)

10M BARS 1'-6" (450mm)

15M BARS 2'-0" (600mm)

20M BARS 3'-0" (900mm)

- PROVIDE CLEANOUTS AT THE BASE OF THE WALL TO VERIFY PROPER PLACEMENT OF GROUT. PLACE GROUT IN MAXIMUM 6'-6" (1950mm) LIFTS. IF NO CLEANOUT PROVIDED.POUR HEIGHT LIMITED TO 5'-0" (1500mm.)

- PROVIDE COLD WEATHER PROTECTION AS REQUIRED BY CSA A371-14 "MASONRY CONSTRUCTION FOR BUILDINGS."

- PROVIDE ADEQUATE TEMPORARY BRACING TO LOAD BEARING MASONRY WALLS UNTIL THE SUPPORTED FLOOR OR ROOF IS INSTALLED AND CAN DEVELOP ADEQUATE DIAPHRAGM ACTION.

- REINFORCING BARS – SEE NOTES UNDER 'REINFORCING STEEL' FOR REQUIREMENTS. CSA G30.18, GRADE 400W, UNLESS NOTED OTHERWISE.

- I. VERTICAL REINFORCEMENT
 - 1-15M ϕ 48" (1200mm) C/C (UNO ON DRAWINGS)
 - PROVIDE 2-15M FULL HEIGHT AT:
 - ENDS OF WALLS, CORNERS & INTERSECTIONS
 - EACH SIDE OF DOORS AND OTHER OPENINGS
 - EACH SIDE OF CONTROL JOINTS

J. HORIZONTAL REINFORCEMENT (UNO ON DRAWINGS)
 - IN EVERY SECOND BED JOINT, PROVIDE AGA-GALVANIZED LADDER TYPE JOINT REINFORCEMENT
 - AT BOTTOM BOND BEAM REINFORCE WITH 1-15M
 - AT TOP BOND BEAM REINFORCE AS SHOWN BELOW:
 - SPANS LESS THAN 5'-0" (1500mm):
 - 200 BOND BEAM C/W 1-15M FULL LENGTH
 - SPANS 1500mm TO 10'-0" (3000mm):
 - 400 BOND BEAM C/W 2-15M FULL LENGTH

- ALL REINFORCEMENT SHALL BE SECURELY HELD IN POSITION WHILE PLACING CONCRETE. IF NECESSARY, ADDITIONAL BARS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT.

STRUCTURAL STEEL

- DESIGN, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH CAN/CSA-S16-14 AND THE CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL.

- MATERIAL REQUIREMENTS**
 - W SHAPES: CAN/CSA-G40.20-13/G40.21-13 GRADE 350W OR ASTM A992 GRADE 50
 - HSS SHAPES: CAN/CSA-G40.20-13/G40.21-13 GRADE 350W CLASS C
 - OTHER STRUCTURAL SHAPES AND PLATES: CAN/CSA-G40.20-13 / G40.21-13 GRADE 300W
 - BOLTS: ASTM A325
 - HEADED STUD ANCHORS: ASTM A108 TENSILE STRENGTH 414 MPa
 - ANCHOR RODS: ASTM F1554 GRADE 36
 - THREADED ROD: ASTM A193 B7

- WELDING SHALL CONFORM TO CSA-W59-13 AND BE DONE WITH MATCHING ELECTRODES.

- PROVIDE SHOP DRAWINGS FOR REVIEW BY THE ENGINEER PRIOR TO COMMENCING FABRICATION OF STRUCTURAL STEEL. ANY WORK CARRIED OUT PRIOR TO RECEIPT OF THE REVIEWED DRAWINGS BY THE CONTRACTOR SHALL BE DONE SOLELY AT THE CONTRACTORS OWN RISK. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER IN THE PROVINCE OF WORK.

- ALL INTERIOR STRUCTURAL STEEL SHALL RECEIVE ONE SHOP COAT AND FIELD TOUCH-UP OF APPROVED PRIMER PAINT.

- ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

- MAINTAIN ERECTION BRACING UNTIL COMPLETION OF ENTIRE STRUCTURE INCLUDING ROOF DECKS AND OTHER ELEMENTS WHICH ARE PART OF THE LATERAL LOAD RESISTING SYSTEM.

- THE CONTRACTOR SHALL PROVIDE, AT NO ADDITIONAL COST, ALL ADDITIONAL STEEL, SHORING, CONNECTIONS, GUYING, ETC. REQUIRED FOR ERECTION.
- CEMENTITIOUS GROUT UNDER BASEPLATES SHALL BE NON-SHRINK, NON-STAIN AND PLACED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR DRY PACK, PLASTIC OR FLOWABLE MINIMUM COMPRESSIVE STRENGTH OF GROUT SHALL BE 35 MPa AT 28 DAYS. BASIS OF STRUCTURAL DESIGN IS SIKKA M-BED STANDARD.

- DESIGN SHEAR CONNECTIONS IN ACCORDANCE WITH CAN/CSA-S16. UNLESS NOTED OTHERWISE ON DRAWINGS, DESIGN END CONNECTIONS FOR NON-COMPOSITE BEAMS FOR A FACTORED SHEAR LOAD OF 80% OF THE TOTAL BEAM LOAD TABULATED IN THE "BEAM LOAD TABLES" IN THE LATEST "HANDBOOK OF STEEL CONSTRUCTION." ALL CONNECTIONS SHALL BE DESIGNED AS BEARING TYPE CONNECTIONS (UNO); BOLTS SHALL BE BROUGHT TO A SNUG-TIGHT CONDITION AS DEFINED IN CAN/CSA-S16-1.

- PROVIDE MINIMUM LENGTH OF BEARING OF 8" FOR ALL STEEL BEAMS BEARING ON MASONRY AND CONCRETE AND A MINIMUM OF 4" ON STRUCTURAL STEEL, UNLESS OTHERWISE NOTED OR SHOWN.

- CONTRACT BEARING PLATES UNDER BEAMS UNLESS OTHERWISE NOTED SHALL SHOWN. ALL WELDS EXPOSED TO VIEW SHALL BE GROUND SMOOTH.

- SPLICES SHALL BE DESIGNED TO DEVELOP THE FULL CAPACITY OF THE MEMBER AT THE POINT OF THE SPLICE. MEMBERS SHALL NOT BE SPICED AT POINTS OF MAXIMUM STRESS. NO SPLICES SHALL BE MADE UNLESS SHOWN ON THE DRAWINGS OR REVIEWED AND APPROVED BY THE CONSULTANT.

- PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES OF THE WEB OF BEAMS AT POINTS OF CONCENTRATED LOAD INCLUDING BEAMS SUPPORTING COLUMNS OR RUNNING OVER TOPS OF COLUMNS, UNLESS SHOWN BY DESIGN, THAT STIFFENERS ARE NOT REQUIRED.

- CONNECT ALL COLUMNS TO THE BASE PLATES FOR THE LARGER OF THE FOLLOWING FORCES IN ADDITION TO OTHER FORCES SHOWN:

A. AT BRACING FOR THE FACTORED HORIZONTAL AND VERTICAL COMPONENTS FROM THE BRACING

B. FOR 3% OF THE FACTORED VERTICAL COLUMN LOAD APPLIED HORIZONTALLY

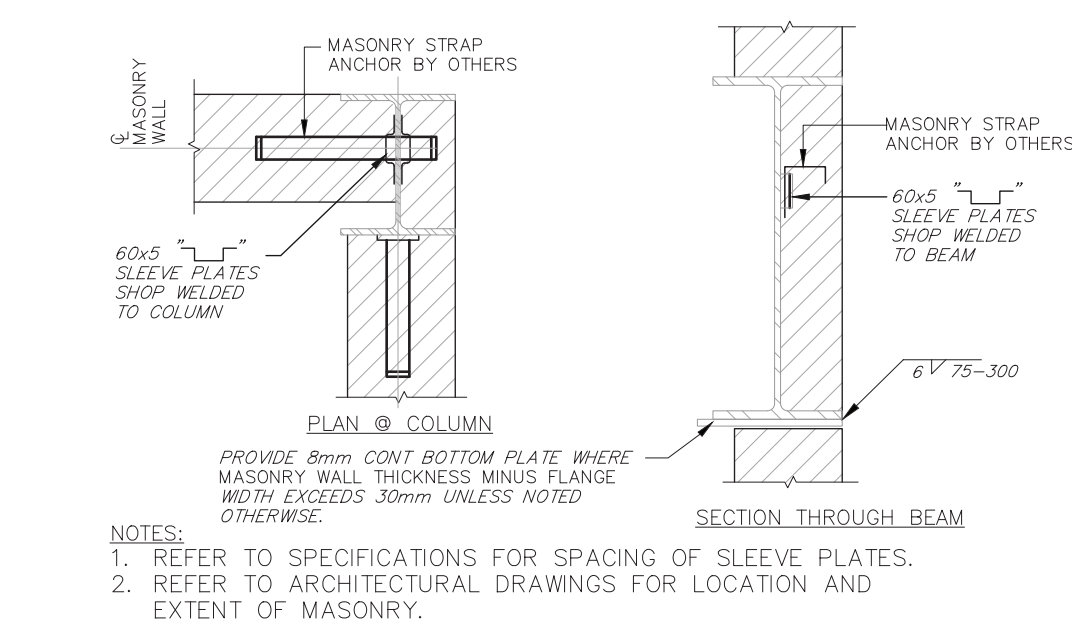
C. IF ITEM B NOT PROVIDED, USE FACTORED COLUMN CAPACITY AS FACTORED VERTICAL COLUMN LOAD

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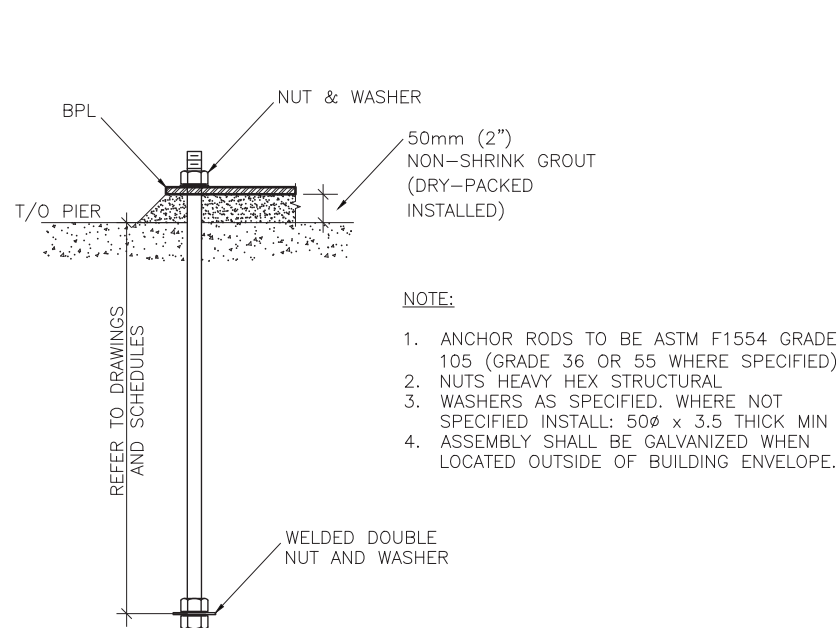
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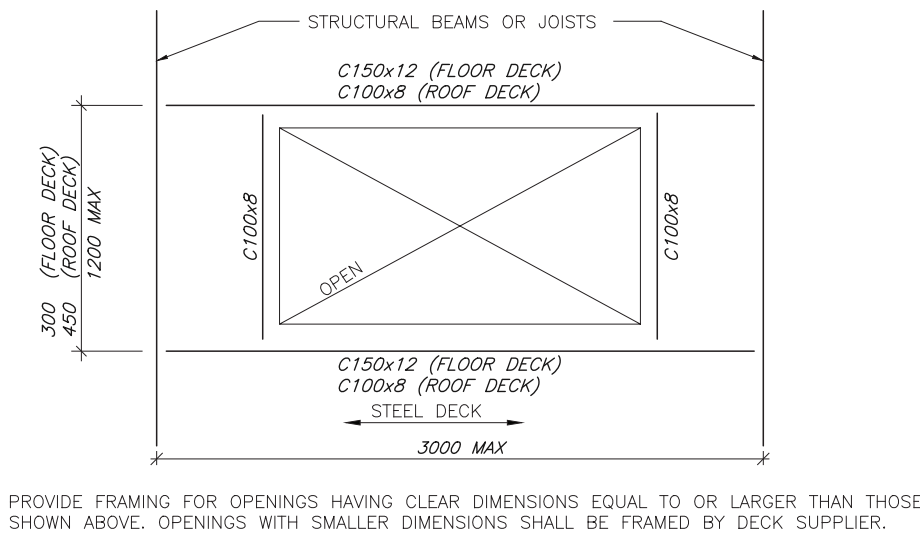
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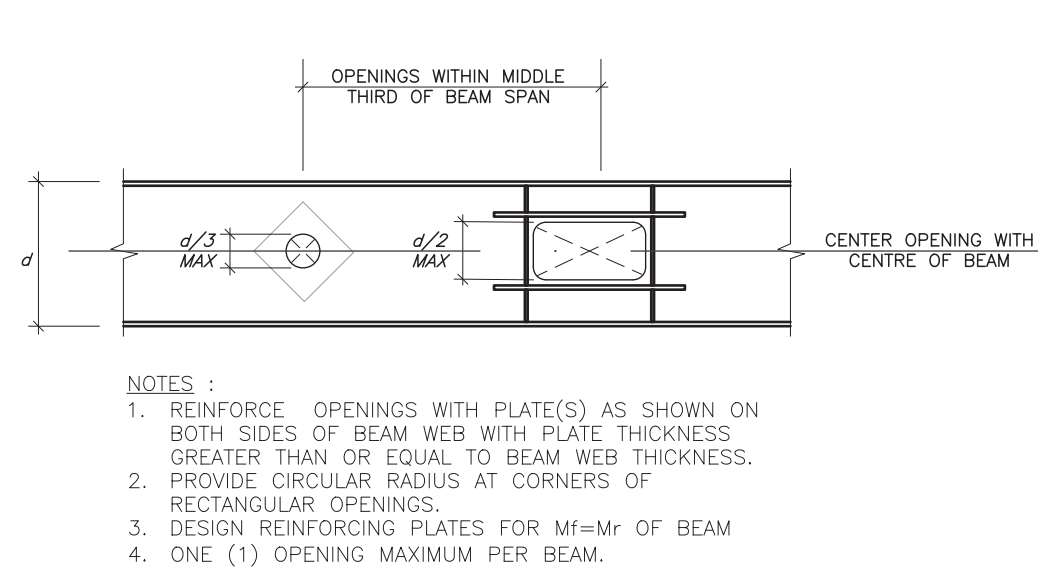
1 MASONRY ANCHORAGE



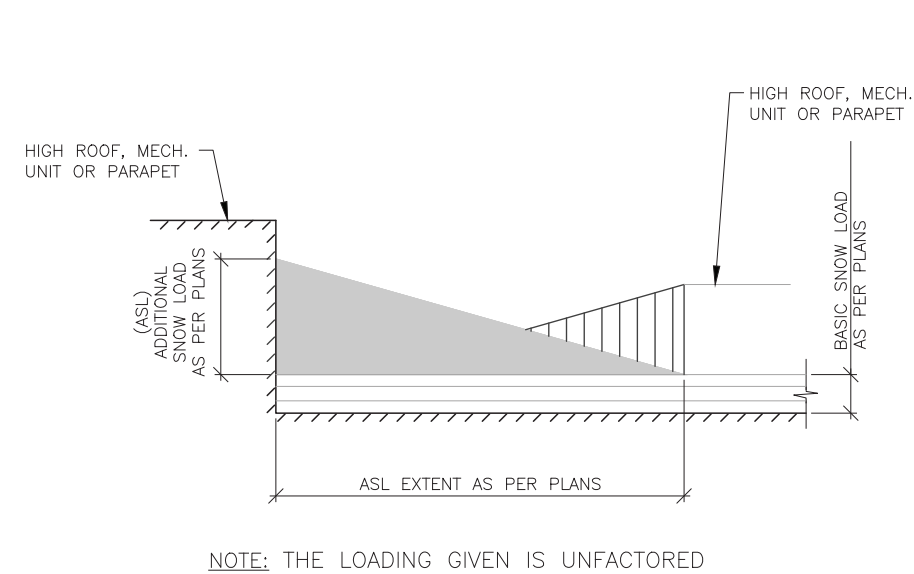
2 BASEPLATE ANCHOR RODS



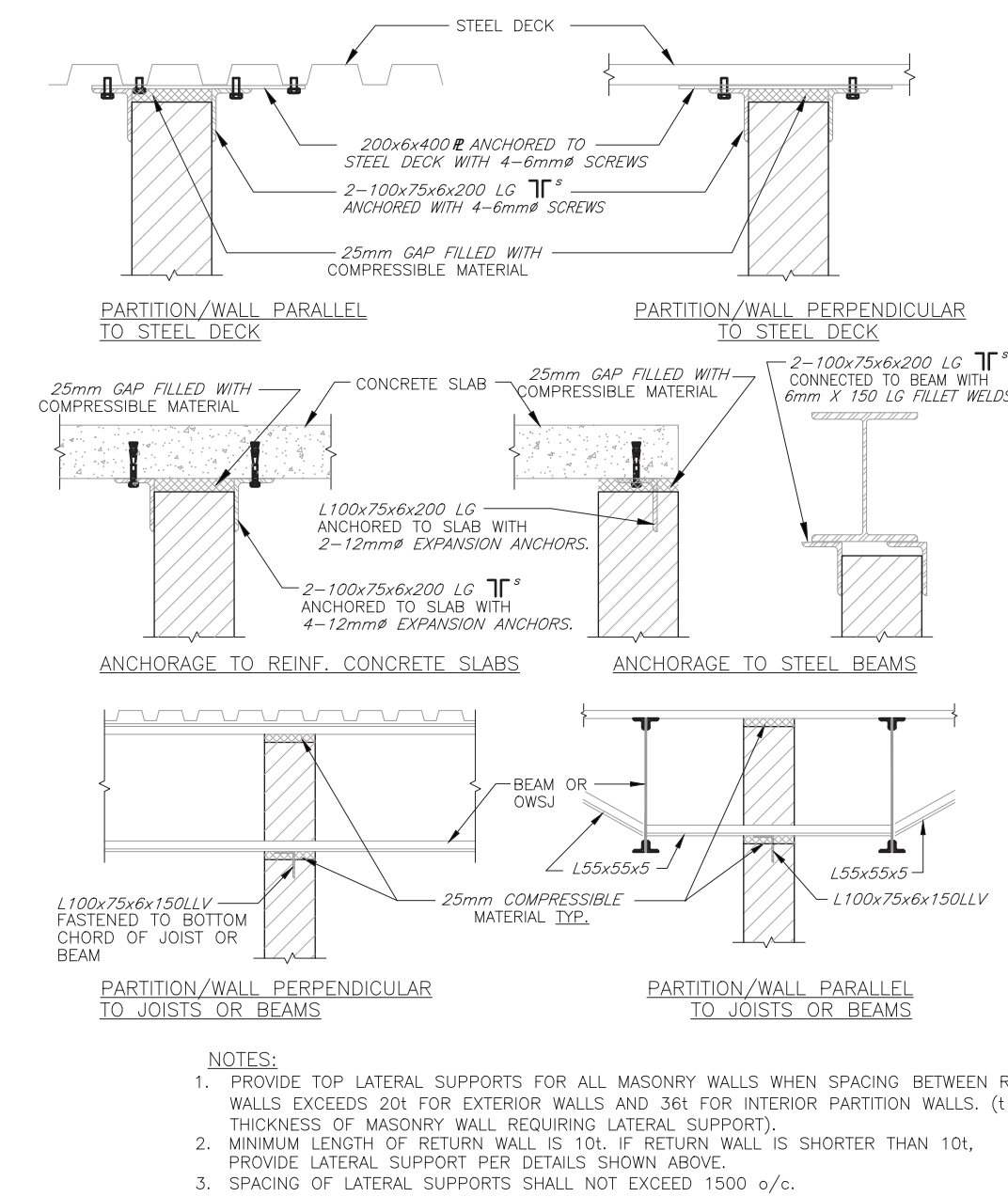
3 STEEL DECK OPENINGS



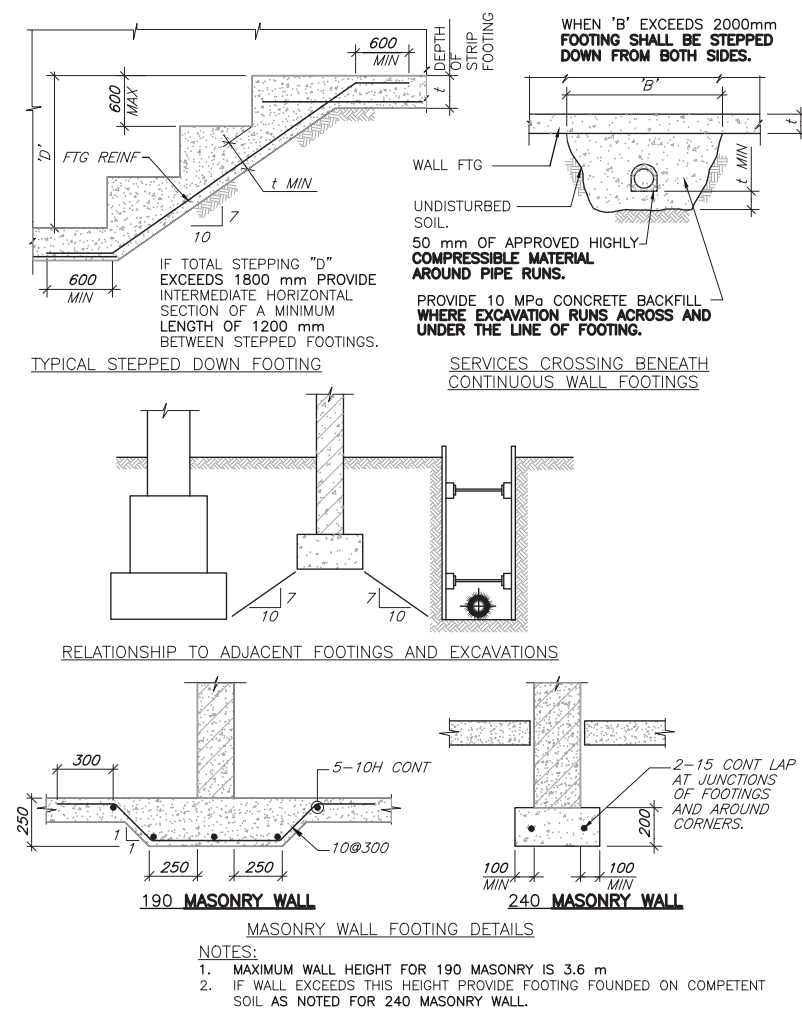
4 BEAM WEB OPENINGS



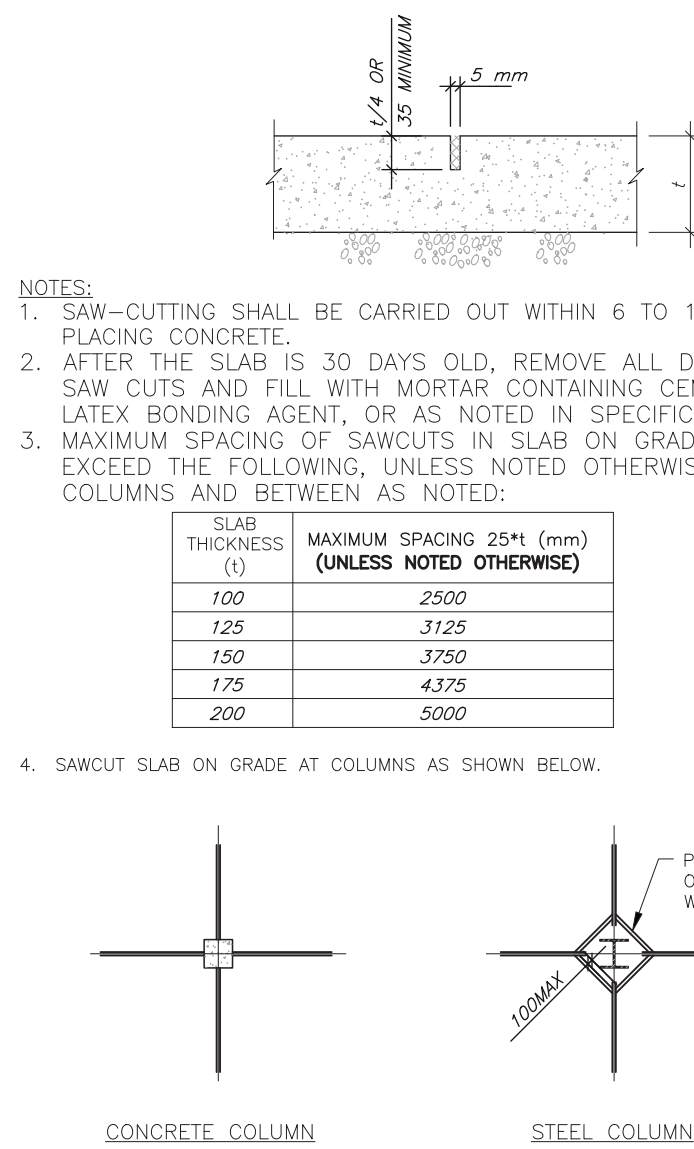
5 ACCUMULATED SNOW LOAD



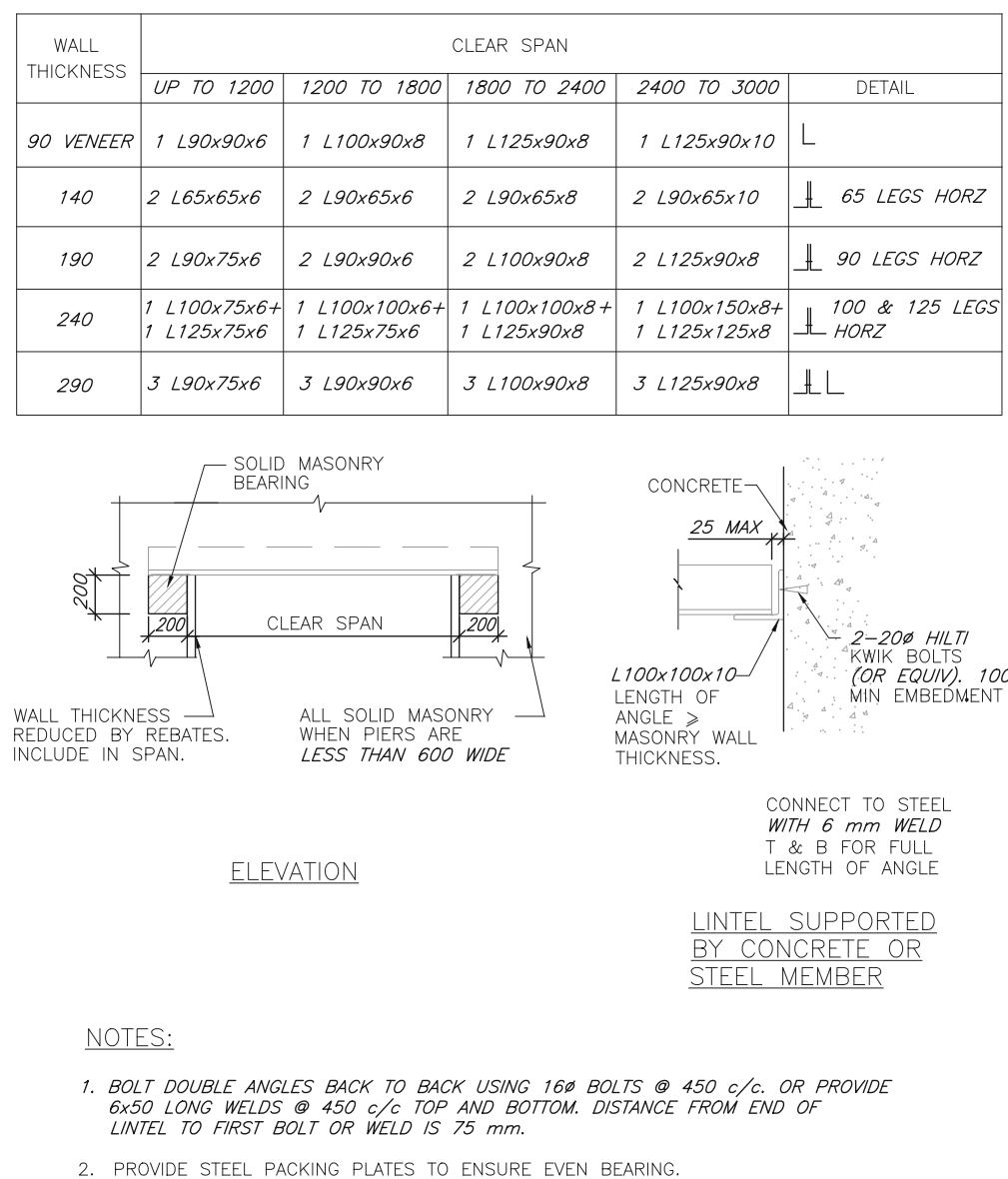
6 TOP OF PARTITIONS



7 FOOTINGS



8 SLAB ON GRADE CUTS



9 LINTELS

☐ Review
 ☒ Permit
 ☒ Tender
 ☐ Construction
 ☐ Change

4.	Issued for Tender	March 04, 2024
3.	Issued for Permit and Tender	February 16, 2024
2.	Issued for 90% Progress	December 22, 2023
1.	Issued for 75% Progress	November 17, 2023

No.	Issuance	Date
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Project

Accord Plastics Corp.
Rear Addition

Structural

56 Edilcan Drive
Concord, Ontario
L4K 3S5



Date Last Edit	March 04, 2024
Drawn	SDA
Checked	MGA
File Name	S_AccordPlastics
Project No.	E23109

TYPICAL DETAILS

S103

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Issued for Permit and Tender

Review	Permit	Tender	Construction	Change
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4.	Issued for Tender	March 04, 2024
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No.	Issuance	Date
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Project
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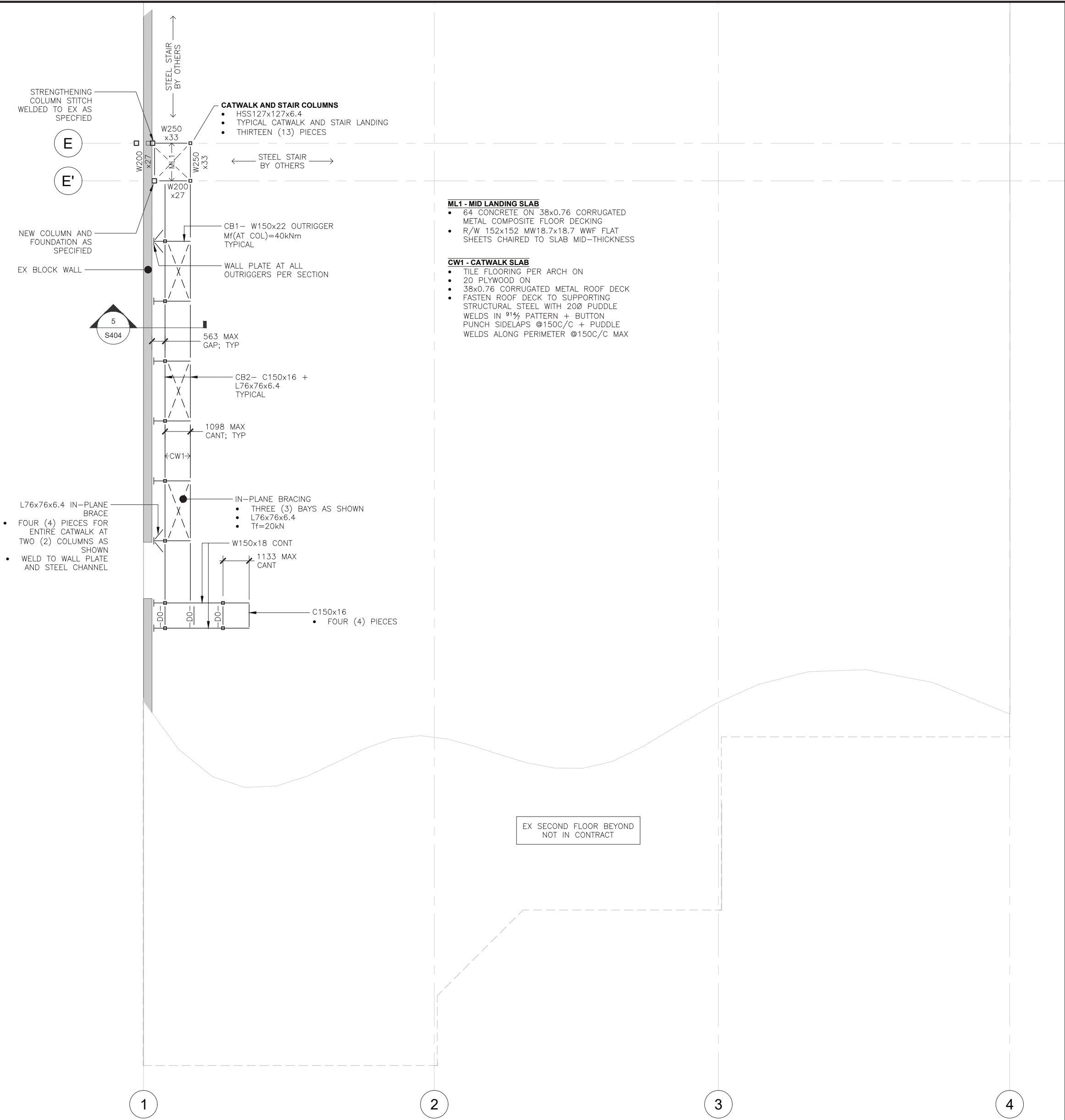
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Project No.	E23109

FOUNDATION PLAN

S201

FOUNDATION SCHEDULE

TAG	SIZE (LONGxSHORTxTHICKNESS)	STEEL REINFORCING BARS	PIER SIZE AND REINFORCING	COMMENTS
FX1	EX ±1981x1525x355 ASSUMED BASED ON DESTRUCTIVE EXPLORATORY EXCAVATION	EXISTING	EX ±6100x1220	CONTRACTOR SHALL FIELD VERIFY EXISTING FOOTING SIZE DURING EXCAVATION FOR ADJACENT NEW FOUNDATIONS. IMMEDIATELY REPORT DISCREPANCIES TO ENGINEER PRIOR TO PROCEEDING.
FX2	EX ±1220x1220x355 ASSUMED BASED ON DESTRUCTIVE EXPLORATORY EXCAVATION	EXISTING	EX ±610x610x1220	CONTRACTOR SHALL FIELD VERIFY EXISTING FOOTING SIZE DURING EXCAVATION FOR ADJACENT NEW FOUNDATIONS. IMMEDIATELY REPORT DISCREPANCIES TO ENGINEER PRIOR TO PROCEEDING.
FX3	EX ±915x915x355 ASSUMED	EXISTING	EX ±610x610x1220	REFER TO FX2
F1	2250x1220x1575	10-20M HOOKED LONGITUDINAL 7-20M HOOKED TRANSVERSE ALL BARS BEW + TEW	WITHIN MASS POUR FOOTING: 508x508 STEEL REINFORCING BAR CAGE + 4-20M VERTICAL + 3-10@76C/C CLOSED TIES TOP + 10M@254C/C CLOSED TIES REMAINING	℄ STEEL COLUMN = ℄ FOOTING; FOR BOTH DIRECTIONS. WHEN NOT POSSIBLE IN ONE (1) DIRECTION AS PER PLAN DETAIL - CONSTRUCT ECCENTRIC.
F2	2650x1220x1220	5-20M HOOKED LONGITUDINAL 12-20M HOOKED TRANSVERSE ALL BARS BEW + TEW	610x610 FORMED PIER + 4-25M VERTICAL + 3-10@76C/C CLOSED TIES TOP + 10M@254C/C CLOSED TIES REMAINING	NEW FOOTING AND PIER TIGHT TO EXISTING CONCRETE FOUNDATION WALL AS SPECIFIED.
F3	2000x1220x1220	5-20M HOOKED LONGITUDINAL 8-20M HOOKED TRANSVERSE ALL BARS BEW + TEW	SAME F2	NEW FOOTING AND PIER TIGHT TO EXISTING CONCRETE FOUNDATION WALL AS SPECIFIED.
F4	2000x1220x1220	5-20M HOOKED LONGITUDINAL 8-20M HOOKED TRANSVERSE ALL BARS BEW + TEW	SAME F2	NEW FOOTING AND PIER TIGHT TO EXISTING CONCRETE FOUNDATION WALL AS SPECIFIED.
F5	2000x1220x1220	5-20M HOOKED LONGITUDINAL 8-20M HOOKED TRANSVERSE ALL BARS BEW + TEW	SAME F2	NEW FOOTING AND PIER TIGHT TO EXISTING CONCRETE FOUNDATION WALL AS SPECIFIED.
F6	915x915x355	5-15M BEW	508x508 FORMED CONCRETE PIERS + + 4-15M VERTICAL + 3-10@76C/C CLOSED TIES TOP + 10M@254C/C CLOSED TIES REMAINING	CONCRETE PIERS FLUSH WITH EXTERIOR FOUNDATION WALL
F7	4800x610 DEEP	NONE	4-15M VERTICAL + 3-10@76C/C CLOSED TIES TOP + 10M@254C/C CLOSED TIES REMAINING	
F8	±9033x±5213x355 RAFT FOUNDATION BELOW FREIGHT ELEVATOR	15M@254C/C BEW + TEW	508x508 FORMED CONCRETE PIERS + + 4-15M VERTICAL + 3-10@76C/C CLOSED TIES TOP + 10M@254C/C CLOSED TIES REMAINING	CONCRETE PIERS FLUSH WITH EXTERIOR FOUNDATION WALL
F9	915x915x1220	4-15M BEW + TEW	4-15M VERTICAL + 3-10@76C/C CLOSED TIES TOP + 10M@254C/C CLOSED TIES REMAINING	MATCH U/S EX ADJACENT FOUNDATIONS

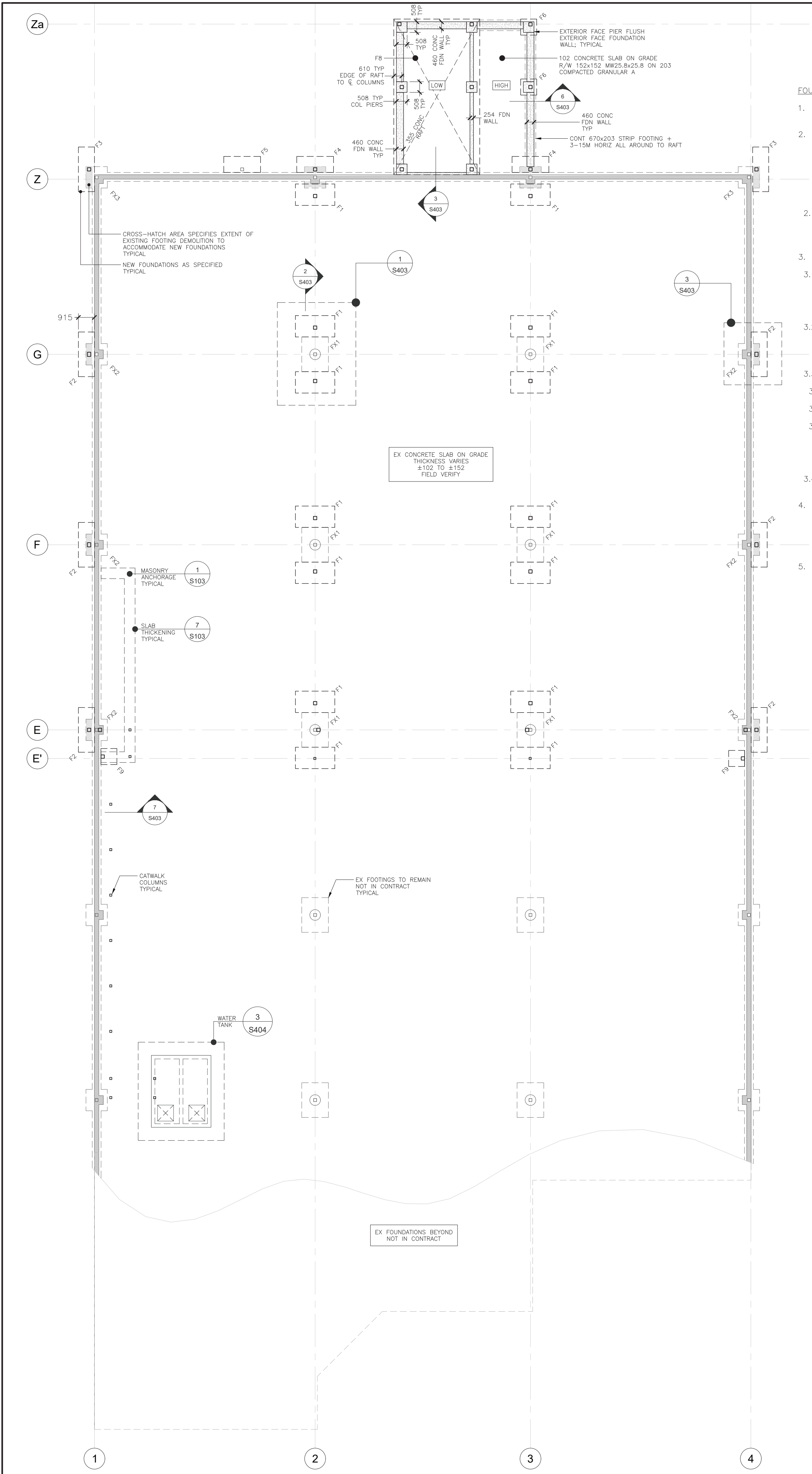


FOUNDATION PLAN

Scale: 1:150

FOUNDATION PLAN NOTES:

- TOP OF CONCRETE SLAB-ON-GRADE 214200. COORDINATE ALL DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- ALL GEOTECHNICAL WORK SHALL BE MONITORED, INSPECTED AND APPROVED BY A LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER. REFER TO GEOTECHNICAL REPORT. ALL GEOTECHNICAL INFORMATION HEREIN IS BASED ON FINDINGS AND RECOMMENDATIONS WITHIN GEOTECHNICAL REPORT. ALL RELEVANT CONTRACTORS SHALL REVIEW AND FAMILIARIZE THEMSELVES WITH GEOTECHNICAL REPORT. CONTRACTOR SHALL HAVE GEOTECHNICAL ENGINEER ON SITE PRIOR TO POURING EACH CONCRETE FOUNDATION.
- ALL TOPSOIL, BURIED TOPSOIL, FILL MATERIALS AND OTHER DELTERIOUS MATERIALS SHALL BE REMOVED FROM THE SITE. THE SITE SHALL BE RAISED WITH COMPACTED ENGINEERED FILL AS REQUIRED.
- FOUNDATION BEARING:
 - ALL BEARING SURFACES ARE TO BE REVIEWED AND APPROVED BY A LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER PRIOR TO POURING CONCRETE. CONTRACTOR SHALL PROVIDE CONSULTANTS WITH GEOTECHNICAL INSPECTION REPORTS PRIOR TO POURING FOUNDATIONS.
 - FOUND UNDERSIDE OF ALL FOUNDATIONS WITHIN UNDISTURBED NATIVE SOIL WITH MINIMUM ULTIMATE LIMIT STATE (ULS) BEARING RESISTANCE OF 600kPa AND MINIMUM SERVICEABILITY LIMIT STATE (SLS) BEARING RESISTANCE OF 400kPa.
 - FOUND UNDERSIDE OF ALL FOUNDATIONS 1220 (MIN) BELOW TOP OF FINISHED GRADE.
 - IN ADDITION, ENSURE NEW FOUNDATIONS ARE FOUNDED AT SAME ELEVATION AS EXISTING ADJACENT FOUNDATIONS.
 - NEW FOUNDATIONS SHALL NOT BE FOUNDED BELOW EXISTING FOUNDATIONS.
 - NEW FOUNDATIONS CAN ONLY BE FOUNDED ABOVE EXISTING FOUNDATIONS IF THEY LAND BEYOND ANGLE OF REPOSE. REFER TO SECTIONS. SOIL BELOW EXISTING FOOTINGS AND WITHIN ANGLE OF REPOSE IS UNDER LOAD AND SHALL NOT BE DISTURBED.
 - FOUND TOP OF ALL COLUMN SPREAD FOOTINGS FLUSH WITH TOP OF ALL STRIP FOOTINGS.
- CONTRACTOR SHALL ENSURE ALL FOOTING EXCAVATIONS ARE OPEN AND STABLE PRIOR TO POURING CONCRETE. PROVIDE LINING, SHORING, FORMWORK OR TAPER-OUT FOUNDATIONS AS REQUIRED TO ENSURE STABILITY OF EXCAVATIONS AND SAFETY OF WORKERS. ALL EXCAVATIONS AND WORK BY PERSONNEL IN-AND-AROUND EXCAVATIONS SHALL FOLLOW OHSA.
- PREPARE SLAB-ON-GRADE ON 200 THK BASE OF 20 CLEAR CRUSHER-RUN LIMESTONE COMPACTED TO 100% SPMD. ALL EXISTING TOP SOIL AND DELETERIOUS MATERIAL SHALL BE REMOVED AND REPLACED WITH ENGINEERED FILL UNDER DIRECTION OF GEOTECHNICAL ENGINEER. BEARING SURFACES TO BE APPROVED BY GEOTECHNICAL ENGINEER. REINFORCE SLAB WITH WELDED-WIRE-MESH 152x152 MW25.8xMW25.8 CHAIED TO SLAB MID-THICKNESS. WHERE CROSSED AND NOTED REINFORCE SLAB WITH REINFORCING BARS.



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Review	Permit	Tender	Construction	Change
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4.	Issued for Tender	March 04, 2024
3.	Issued for Permit and Tender	February 16, 2024
2.	Issued for 90% Progress	December 22, 2023
1.	Issued for 75% Progress	November 17, 2023

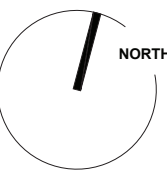
No.	Issuance	Date
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Project

Accord Plastics Corp.
Rear Addition

Structural

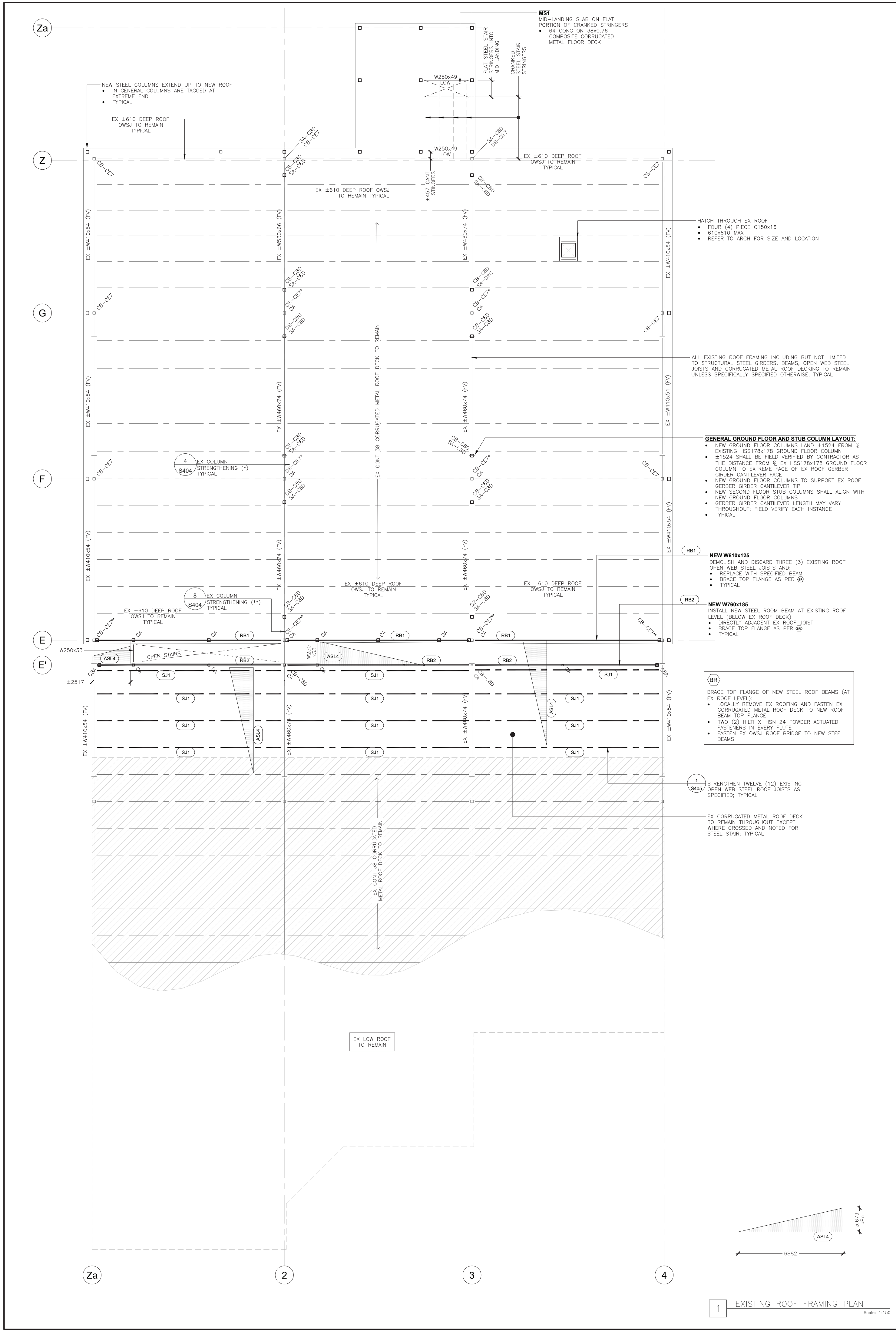
56 Edilcan Drive
Concord, Ontario
L4K 3S5



Date Last Edit	March 04, 2024
Drawn	SDA
Checked	MSA
File Name	S_AccordPlastics
Project No.	E23109

EXISTING ROOF
FRAMING PLAN

S202



EXISTING ROOF FRAMING PLAN NOTES:

- UNDERSIDE OF EXISTING ROOF DECK AT HIGH POINT ±220245. CONTRACTOR SHALL SURVEY EXISTING FRAMING PRIOR TO PROCURING MATERIAL AND PROCEEDING WITH WORK.
- TOP OF ALL EXISTING OPEN-WEB-STEEL-JOISTS (OWSJ) AND STEEL BEAMS AT UNDERSIDE OF EXISTING ROOF DECK; EXCEPT, TOP OF ALL EXISTING STEEL BEAMS SUPPORTING EXISTING OWSJ AT (±) -102 TO ALLOW FOR ±102 DEEP OWSJ SHOE. EXISTING ROOF FRAMING MAY SLOPE. ALTER NEW STEEL FRAMING TO INTEGRATE INTO EXISTING FRAMING.
- ALL EXISTING OWSJ ±EQUALLY SPACED BETWEEN GRIDS AND/OR COLUMNS SHOWN, UNLESS NOTED OTHERWISE.
- COLUMN EXTENTS AS PER ELEVATIONS AND PLAN TAGS.
- EXISTING ROOF DECK ACTS AS A DIAPHRAGM AND SHALL REMAIN UNALTERED.
- REFER TO GENERAL NOTES, SPECIFICATIONS, TYPICAL DETAILS AND SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- UNFACTORED EXISTING ROOF LOADS:

SELF-WEIGHT DEAD LOADS	
CORRUGATED METAL ROOF DECK	0.15 kPa
STRUCTURAL STEEL FRAMING	0.48 kPa
SUPERIMPOSED DEAD LOADS	
ROOFING	0.24 kPa (AFTER REMOVALS)
CEILING	0.15 kPa
MECHANICAL AND ELECTRICAL	0.48 kPa
MECHANICAL RTU	SEE PLAN
SNOW LOADS	
TOTAL SNOW LOAD	BASIC + ASL
BASIC SNOW LOAD BELOW ADDITION	0.00 kPa
BASIC SNOW LOAD BEYOND ADDITION	1.44 kPa
ACCUMULATED SNOW LOAD (ASL)	REFER TO PLAN
ROOF LIVE LOADS	
BELOW ADDITION ONLY ON EX ROOF	1.00 kPa
CLADDING	
INSULATED CORRUGATED METAL PANELS	0.48 kPa

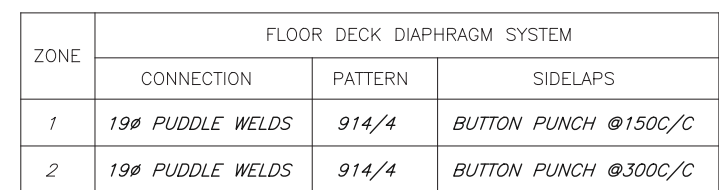
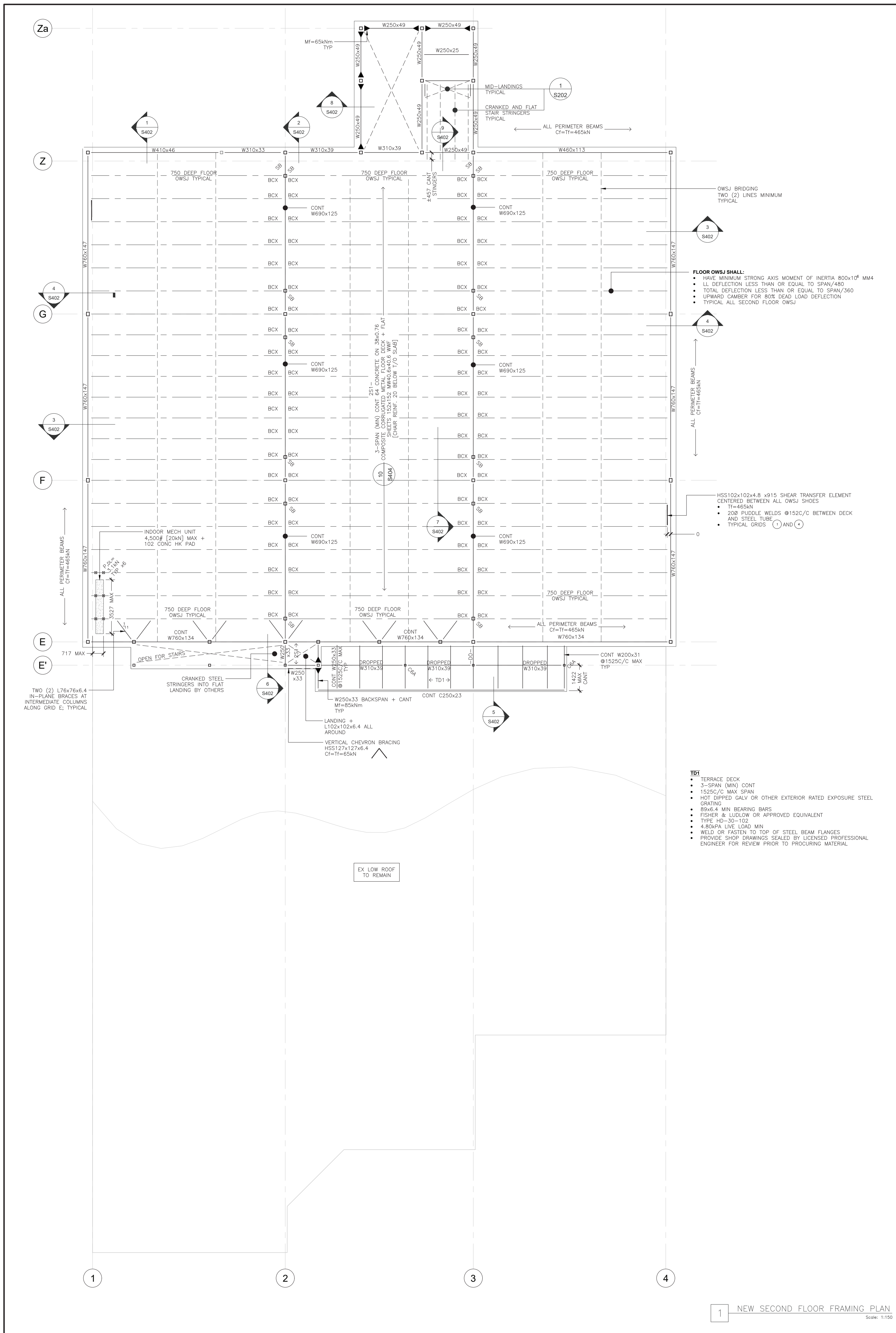
1 FOR SECTION
S202 MARKS

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SECOND FLOOR FRAMING PLAN NOTES:

1. TOP OF FLOOR AT 221440. COORDINATE ALL DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
2. TOP OF ALL OPEN-WEB-STEEL-JOISTS (OWSJ) AND STEEL BEAMS AT UNDERSIDE OF FLOOR DECK; EXCEPT: TOP OF ALL STEEL BEAMS SUPPORTING OWSJ AT -102 TO ALLOW FOR 102 DEEP OWSJ SHOE.
3. LOCATE ALL COLUMNS ON CENTERLINE OF GRID INTERSECTIONS. LOCATE ALL BEAMS CENTERED ON GRIDS.
4. SPACE ALL OWSJ EQUALLY BETWEEN RELEVANT GRIDS AND/OR COLUMNS SHOWN, UNLESS NOTED OTHERWISE. ALL STEEL FRAMING EQUALLY SPACED BETWEEN COLUMNS AS SPECIFIED.
5. COLUMN EXTENTS AS PER ELEVATIONS AND PLAN TAGS.
6. PROVIDE BENT STEEL PLATE CLOSURE ANGLE ALL AROUND FLOOR DECK UNLESS NOTED OTHERWISE. CONNECT SPLICES AND TO COLUMNS FOR $T_f=20KN$.
7. REFER TO GENERAL NOTES, SPECIFICATIONS, TYPICAL DETAILS AND SCHEDULE FOR ADDITIONAL REQUIREMENTS.
8. **UNFACTORED FLOOR LOADS:**

SELF-WEIGHT DEAD LOADS	
CONCRETE ON CORRUGATED FLOOR DECK	1.89 kPa
STRUCTURAL STEEL FRAMING	0.48 kPa
SUPERIMPOSED DEAD LOADS	
MECHANICAL AND ELECTRICAL	0.24 kPa
CLADDING (PERIMETER BEAMS)	6.72 kN/m

<u>LIVE LOAD</u>	
INDUSTRIAL	7.20 kPa*

- * LIVE LOAD PRESSURE LIMIT SHALL NOT BE SURPASSED
ONE (1) GAYLOAD MAXIMUM WEIGHT 2,100 LB (LUMBER SKID INCLUSIVE)
ONE (1) GAYLORD SKID MINIMUM SIZE 48"x48"
ONE (1) GAYLORD APPLIED PRESSURE 131.25 PSF [6.30 kPa]
GAYLORD STACKING NOT PERMITTED

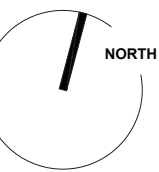
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Project

Structural

56 Edilcan Drive
Concord, Ontario
L4K 3S5



Date Last Edit	March 04, 2024
Drawn	SDA
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File Name	S_AccordPlastics
Project No.	E23109

S203

METRIC

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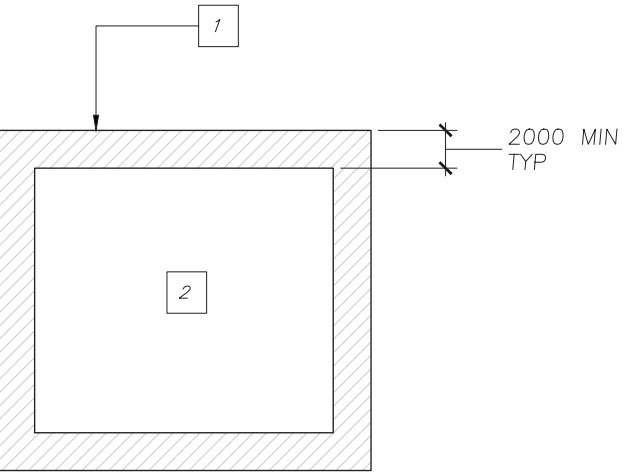
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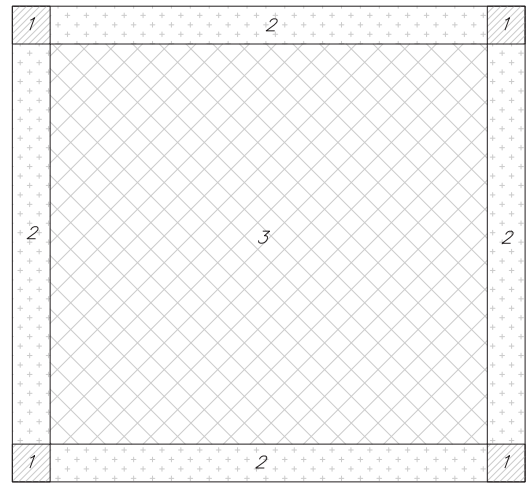
COLUMN SCHEDULE	
TAG	MEMBER
C8A	HSS203x203x6.4
C8B	HSS203x203x7.9
C8C	HSS203x203x9.5
C8D	HSS203x203x13
C8E	HSS203x203x16
C12C	HSS305x203x9.5
C7A	HSS178x178x6.4
C7B	HSS178x178x7.9
C6A	HSS152x152x6.4
C6B	HSS152x152x7.9
CE7	EX ±HSS178x178x4.8 TO REMAIN
CE7*	EX ±HSS178x178x4.8 + NEW STRENGTHENING PLATES
CE7**	EX ±HSS178x178x4.8 + NEW HSS203x203x6.4
CSA	HSS127x127x6.4

BASEPLATE SCHEDULE		
COLUMN TAG	BASEPLATE	ANCHORS
ALL HSS305x203	509x406x25	SIX (6) CAST-IN 25Øx610 EMBED FULLY THREADED F1554 GRADE 10S ANCHOR RODS + 50x50x10 STEEL PLATE AND TACK-WELDED DOUBLE-NUTS AT BURIED END
ALL EXTERIOR HSS203x203, UNO	406x406x25	SIX (6) CAST-IN 25Øx610 EMBED FULLY THREADED F1554 GRADE 10S ANCHOR RODS + 50x50x10 STEEL PLATE AND TACK-WELDED DOUBLE-NUTS AT BURIED END
ALL EXTERIOR HSS203x203 (NORTH GRID Z AT ELEVATOR)	355x355x25	FOUR (4) CAST-IN 20Øx305 EMBED FULLY THREADED F1554 GRADE 36 ANCHOR RODS + 32x32x10 STEEL PLATE AND TACK-WELDED DOUBLE-NUTS AT BURIED END
ALL INTERIOR HSS203x203	406x406x25	FOUR (4) 25Øx152 EMBED FULLY THREADED F1554 GRADE 36 ANCHOR RODS + HILTI HIT-HY200 EPOXY ADHESIVE
ALL HSS203x203 STITCH	355x228x25	TWO (2) 25Øx228 EMBED FULLY THREADED F1554 GRADE 36 ANCHOR RODS WELDED TO T/O DAYLIGHTED EX STEEL BASEPLATE
ALL HSS127x127	280x280x20	FOUR (4) 20Øx102 EMBED FULLY THREADED F1554 GRADE 36 ANCHOR RODS + HILTI HIT-HY200 EPOXY ADHESIVE
BASEPLATES ON 50 THICK NON-SHRINK GROUT CAPABLE OF ACHIEVING 30MPa COMPRESSIVE STRENGTH IN 72-HOURS		
2 S103	ADDITIONAL INFORMATION	



ROOF DECK DIAPHRAGM SYSTEM			
ZONE	CONNECTION	PATTERN	SIDELAPS
1	19# PUDDLE WELDS	914/7	BUTTON PUNCH Ø152C/C
2	19# PUDDLE WELDS	914/7	BUTTON PUNCH Ø305C/C

2 HIGH ROOF DIAPHRAGM



ZONE	DECK		JOISTS
	NET UPLIFT	MINIMUM ARC SPOT WELD	NET UPLIFT
1	-2.76kPa	20# Ø 150	-1.09kPa
2	-1.15kPa	20# Ø 300	-1.09kPa
3	-0.76kPa	20# Ø 300	-0.55kPa

NOTE THE REQUIREMENTS FOR BRACING IN CAN/CSA-S16.1, CLAUSE 16.6.7.2 WHEN NET UPLIFT DUE TO WIND FORCES ACTS ON OWSJ.

UPLIFTS NOTED ARE FACTORED AND INCLUDE FOR DEAD LOADS

3 HIGH ROOF WIND UPLIFT DIAGRAM

ROOF FRAMING PLAN NOTES:

- UNDERSIDE OF ROOF DECK AT HIGH POINT 226190. COORDINATE ALL DIMENSIONS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- TOP OF ALL OPEN-WEB-STEEL-JOISTS (OWSJ) AND STEEL BEAMS AT UNDERSIDE OF ROOF DECK; EXCEPT: TOP OF ALL STEEL BEAMS SUPPORTING OWSJ AT -102 TO ALLOW FOR 102 DEEP OWSJ SHOE. REFER TO PLANS FOR SLOPING ROOF STRUCTURE.
- LOCATE ALL COLUMNS ON CENTERLINE OF GRID INTERSECTIONS. LOCATE ALL BEAMS CENTERED ON GRIDS.
- SPACE ALL OWSJ EQUALLY BETWEEN RELEVANT GRIDS AND/OR COLUMNS SHOWN, UNLESS NOTED OTHERWISE. ALL STEEL FRAMING EQUALLY SPACED BETWEEN COLUMNS AS SPECIFIED.
- COLUMN EXTENTS AS PER ELEVATIONS AND PLAN TAGS.
- PROVIDE BENT STEEL PLATE CLOSURE ANGLE ALL AROUND ROOF DECK UNLESS NOTED OTHERWISE. CONNECT SPLICES AND TO COLUMNS FOR Tf=20kN.
- REFER TO GENERAL NOTES, SPECIFICATIONS, TYPICAL DETAILS AND SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- UNFACTORED ROOF LOADS:

SELF-WEIGHT DEAD LOADS
CORRUGATED METAL ROOF DECK 0.15 kPa
STRUCTURAL STEEL FRAMING 0.48 kPa

SUPERIMPOSED DEAD LOADS
ROOFING 0.72 kPa
CEILING 0.15 kPa
MECHANICAL AND ELECTRICAL 0.48 kPa
MECHANICAL RTU SEE PLAN
CLADDING (PERIMETER BEAMS) 1.44 kN/m

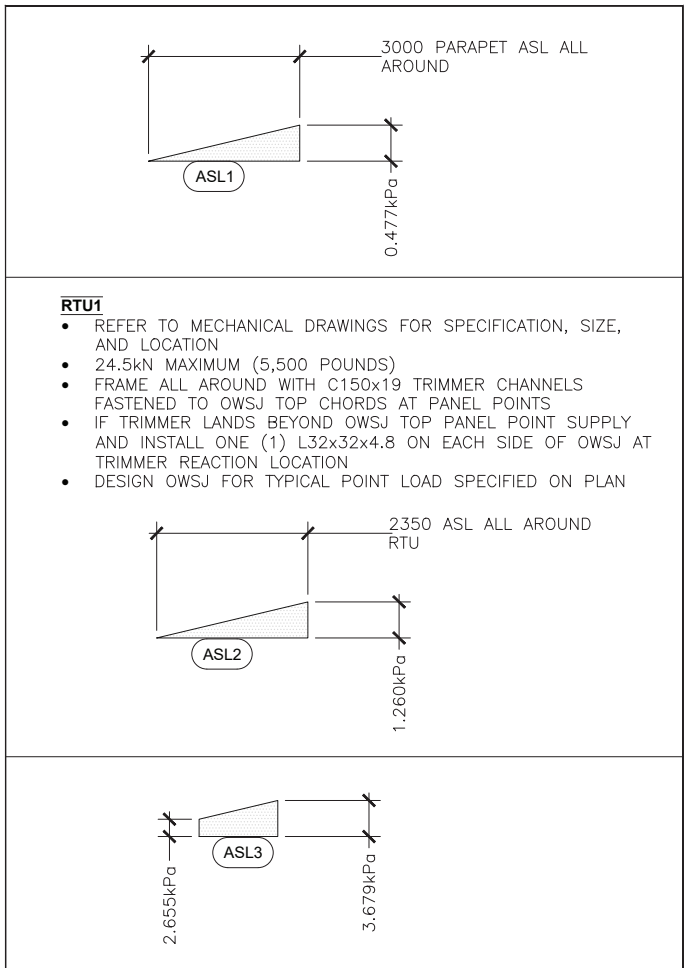
SNOW LOADS
TOTAL SNOW LOAD BASIC + ASL
BASIC SNOW LOAD 1.42 kPa
ACCUMULATED SNOW LOAD (ASL) REFER TO PLAN

LIVE LOAD MINIMUM 1.00 kPa

WIND UPLIFT PER DIAGRAM 3 S204

CLADDING INSULATED CORRUGATED METAL PANELS 0.48 kPa

ACCUMULATED SNOW LOAD (ASL) SCHEDULE



1 NEW HIGH ROOF FRAMING PLAN

Scale: 1:150

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Project

Accord Plastics Corp.
Rear Addition

Structural

56 Edilcan Drive
Concord, Ontario
L4K 3S5

Date Last Edit	March 04, 2024
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Project No.	E23109

NEW HIGH ROOF
FRAMING PLAN

S204

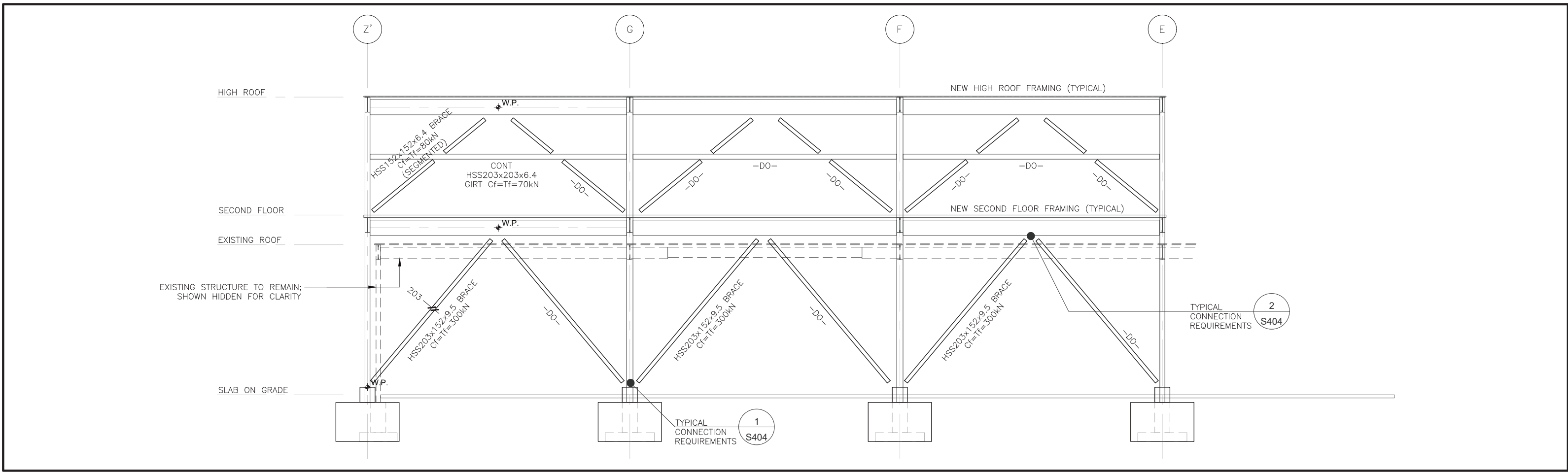
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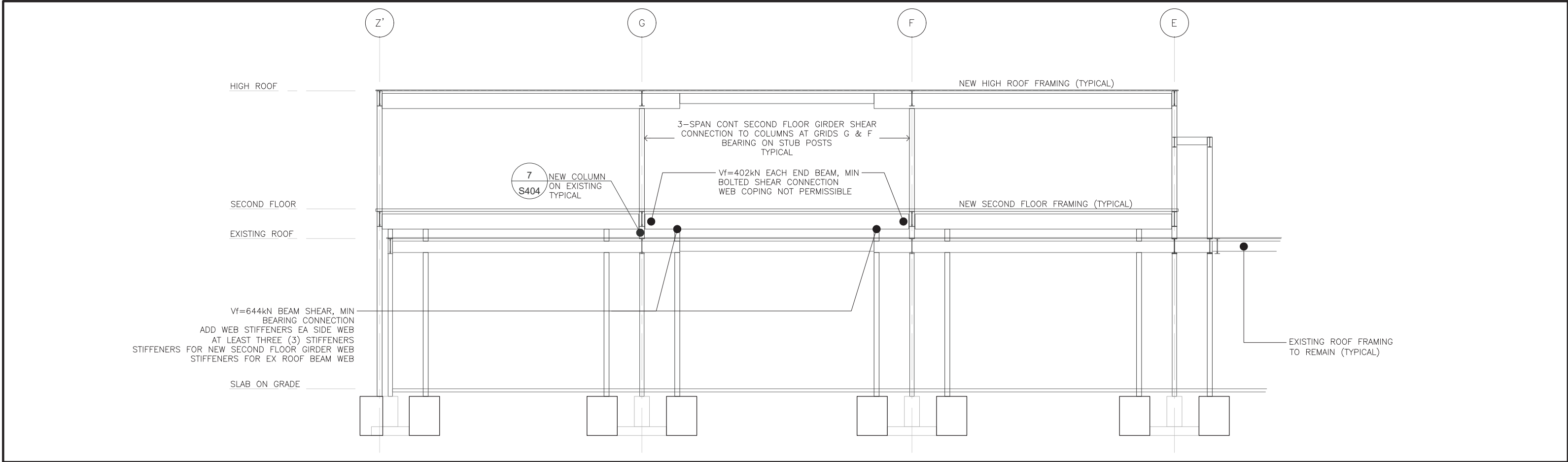
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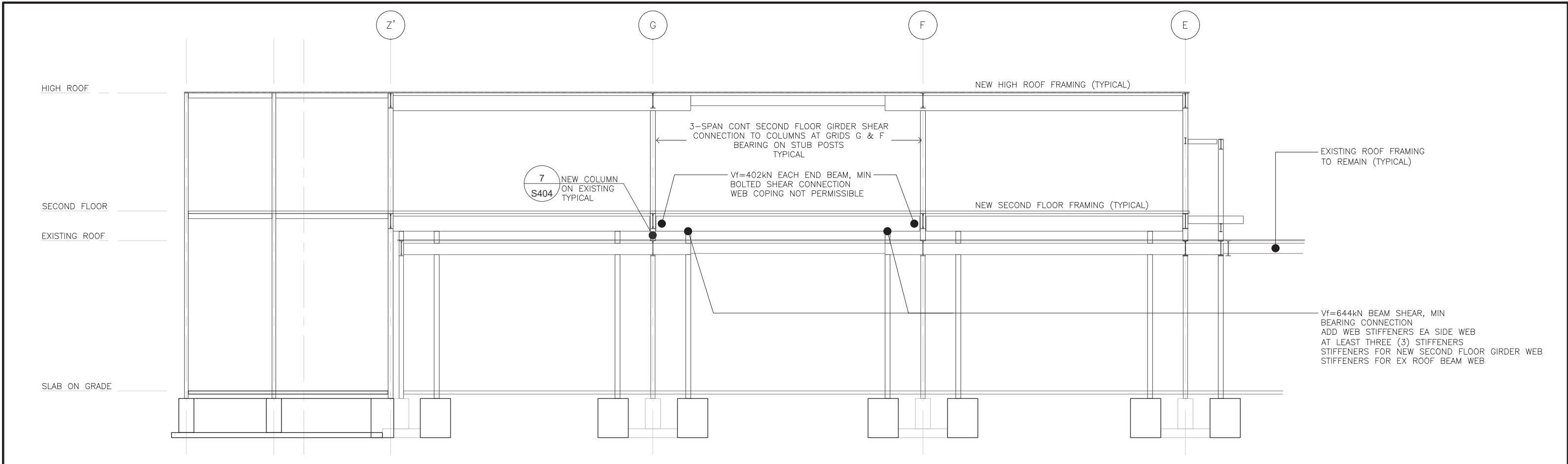
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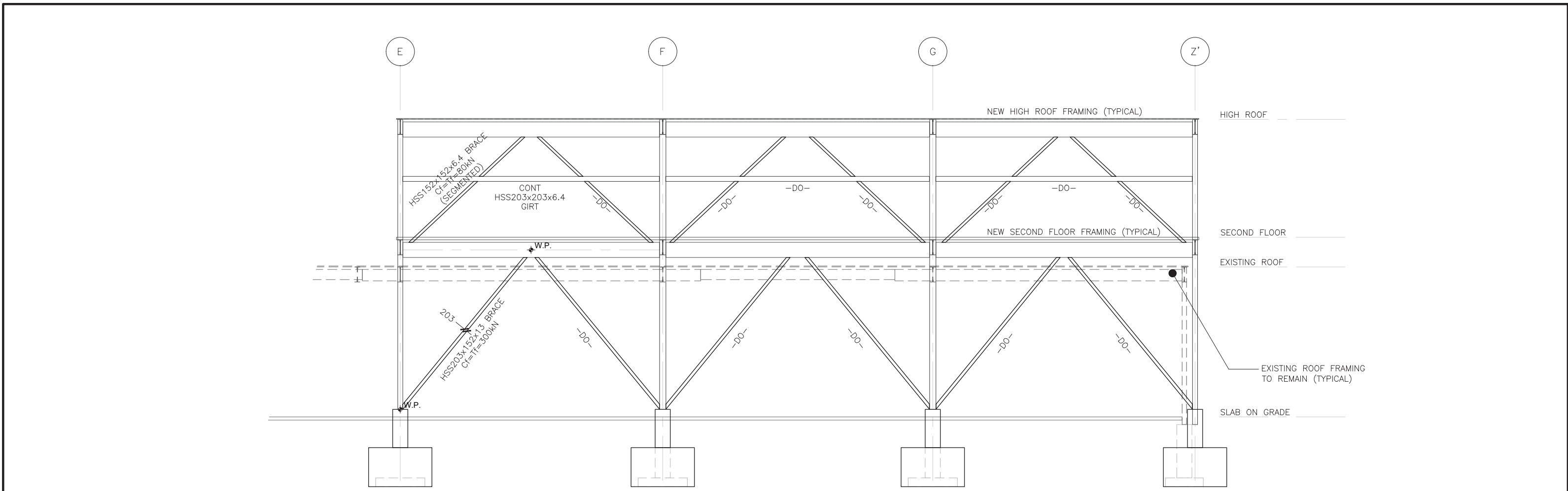
1 GRID 1 - EXTERIOR FRAMING ELEVATION Scale: 1:150



2 GRID 2 - INTERIOR FRAMING ELEVATION Scale: 1:150



3 GRID 3 - INTERIOR FRAMING ELEVATION Scale: 1:150



4 GRID 4 - EXTERIOR FRAMING ELEVATION Scale: 1:150

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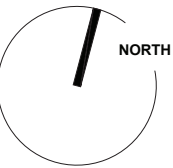
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Project
Accord Plastics Corp.
Rear Addition
Structural

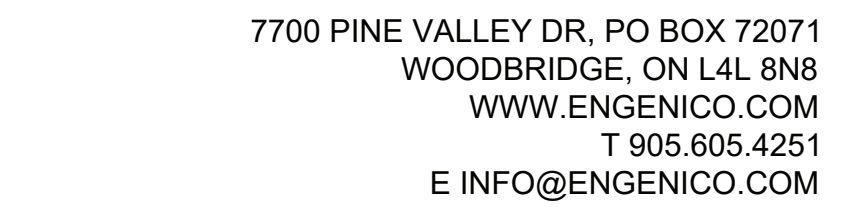
56 Edilcan Drive
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L4K 3S5



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FRAMING ELEVATIONS

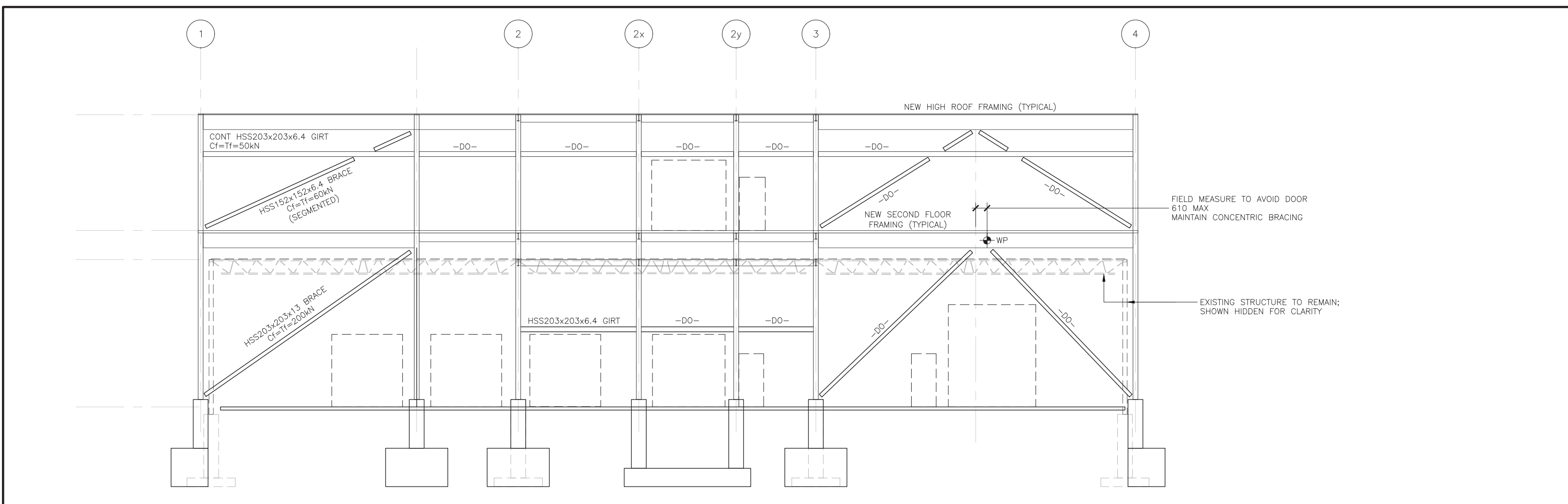
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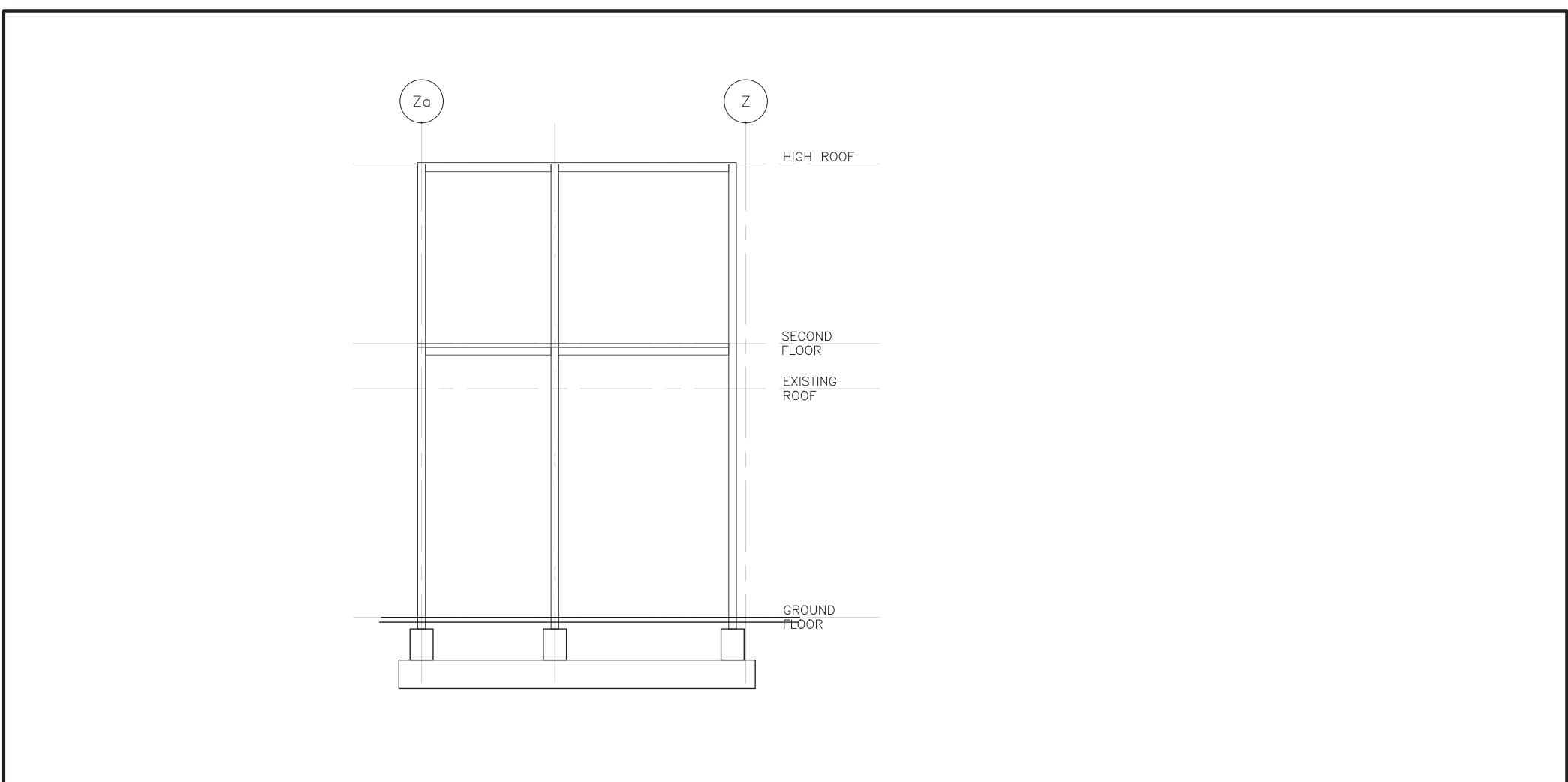
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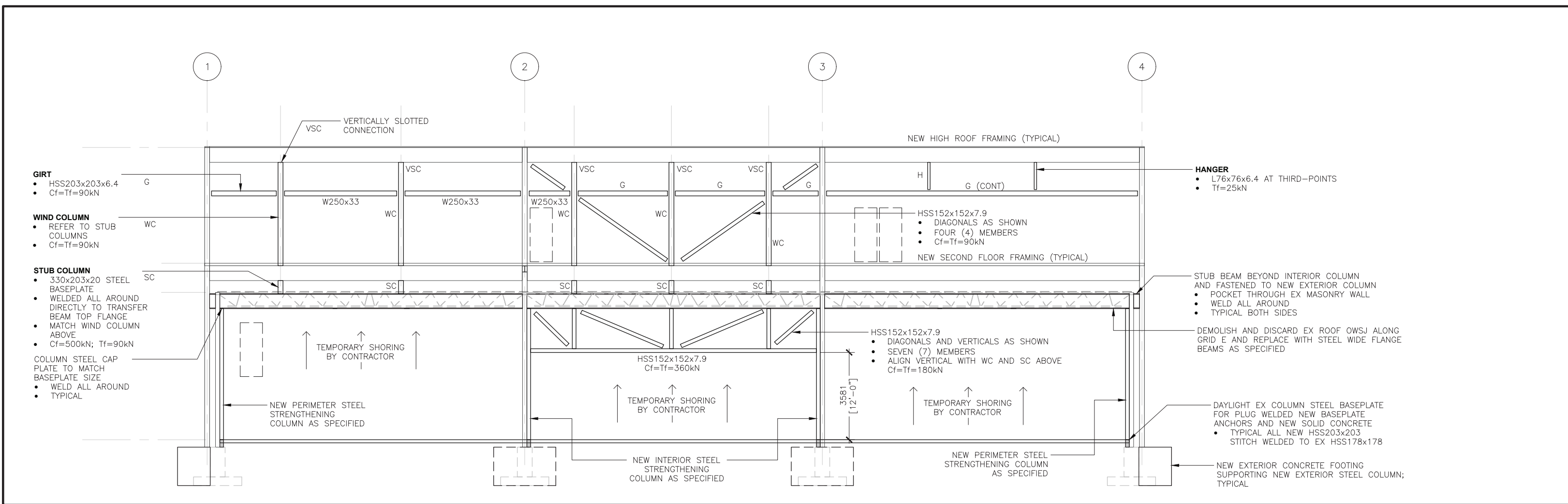
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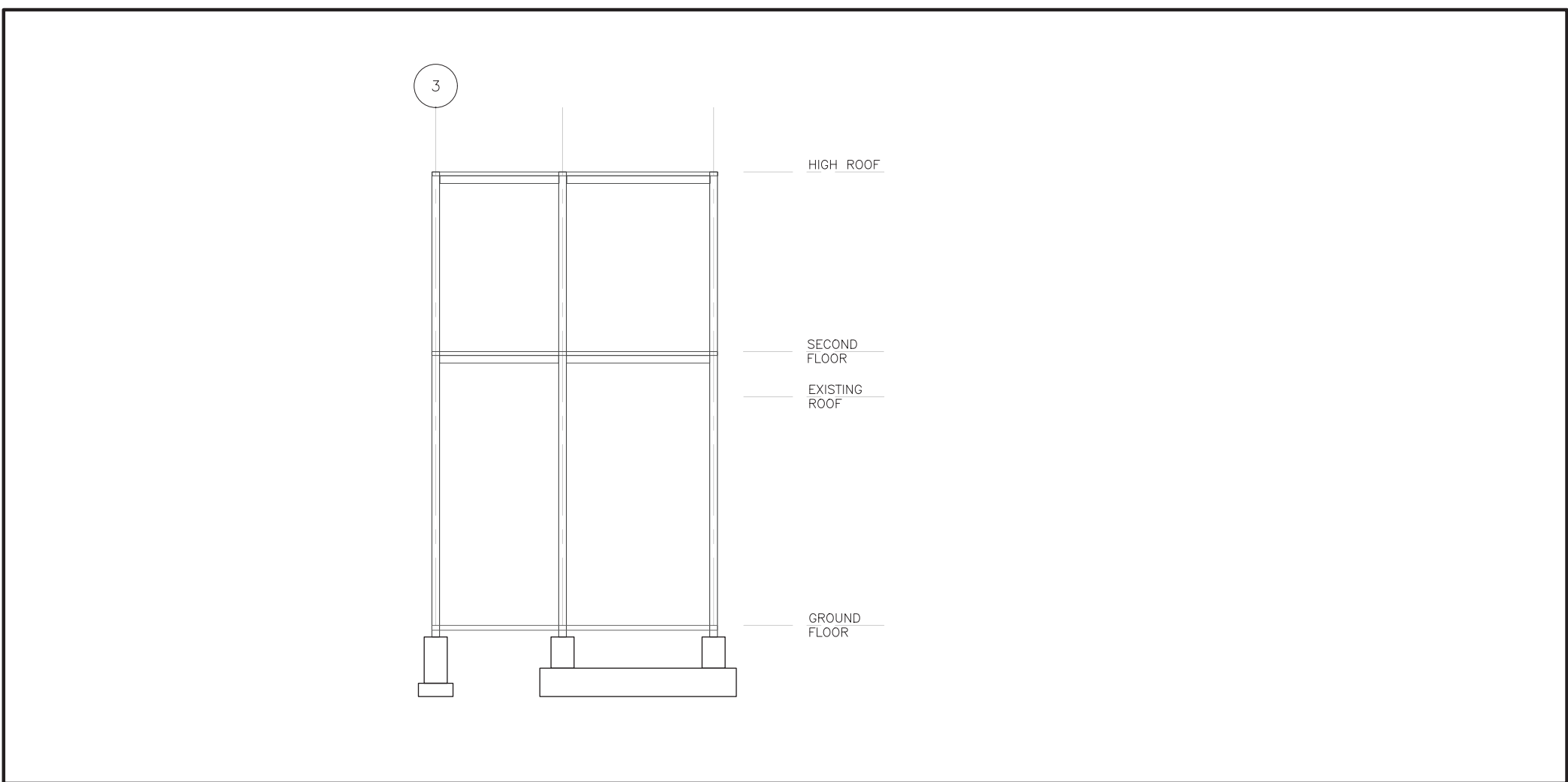
1 GRID Z'- EXTERIOR FRAMING ELEVATION (NORTH)



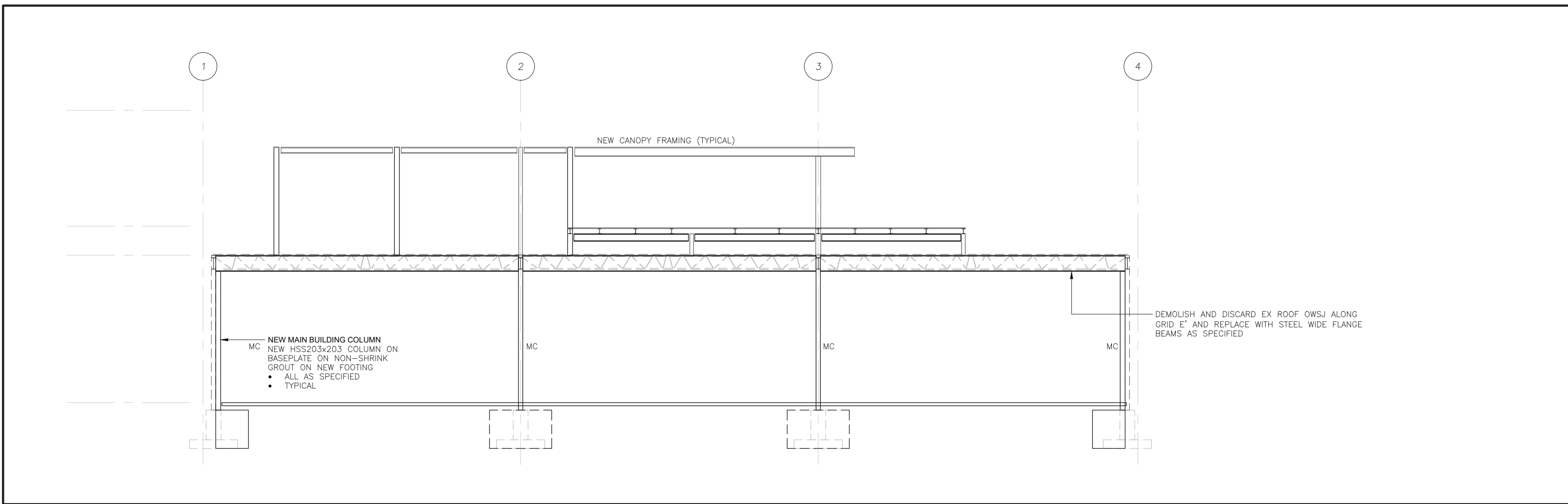
3 GRID 2x- EXTERIOR FRAMING ELEVATION Scale: 1:150



2 GRID E- INTERIOR FRAMING ELEVATION



4 GRID 2a- EXTERIOR FRAMING ELEVATION Scale: 1/150



5 GRID E'- EXTERIOR FRAMING ELEVATION

☐ Review
 ☒ Permit
 ☒ Tender
 ☐ Construction
 ☐ Change

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Project
Accord Plastics Corp.
Rear Addition
Structural

56 Edilcan Drive
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L4K 3S5

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FRAMING ELEVATIONS

S302



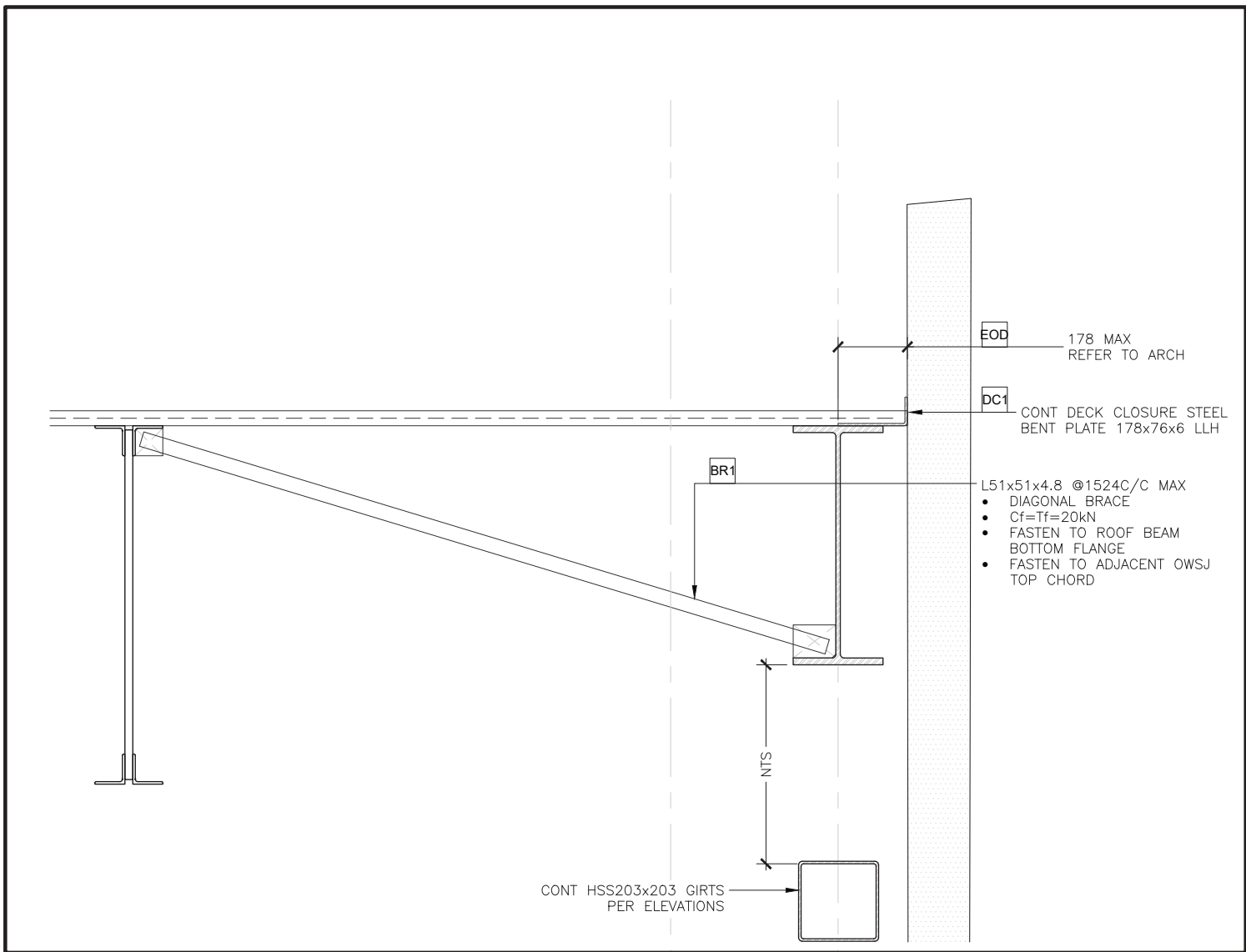
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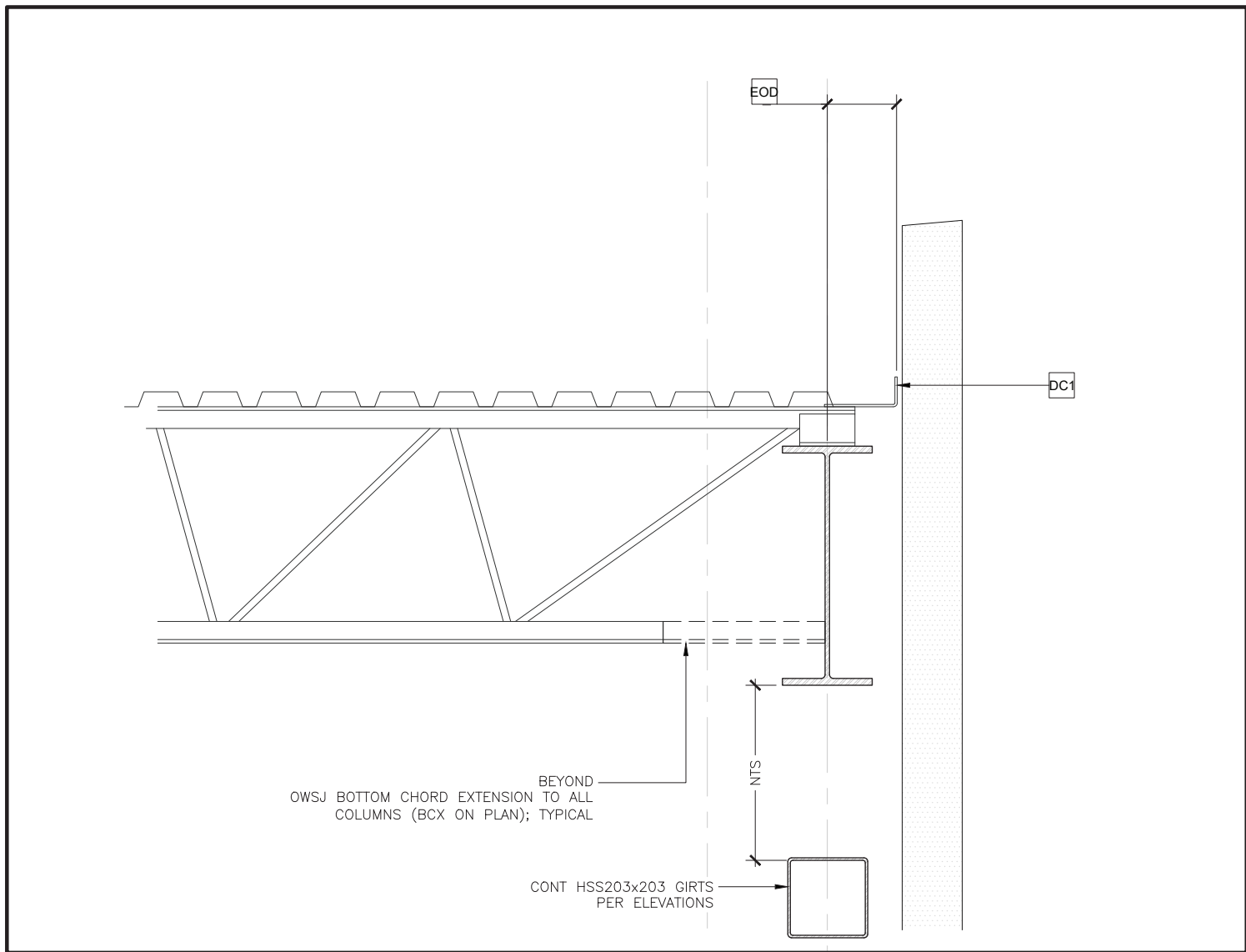
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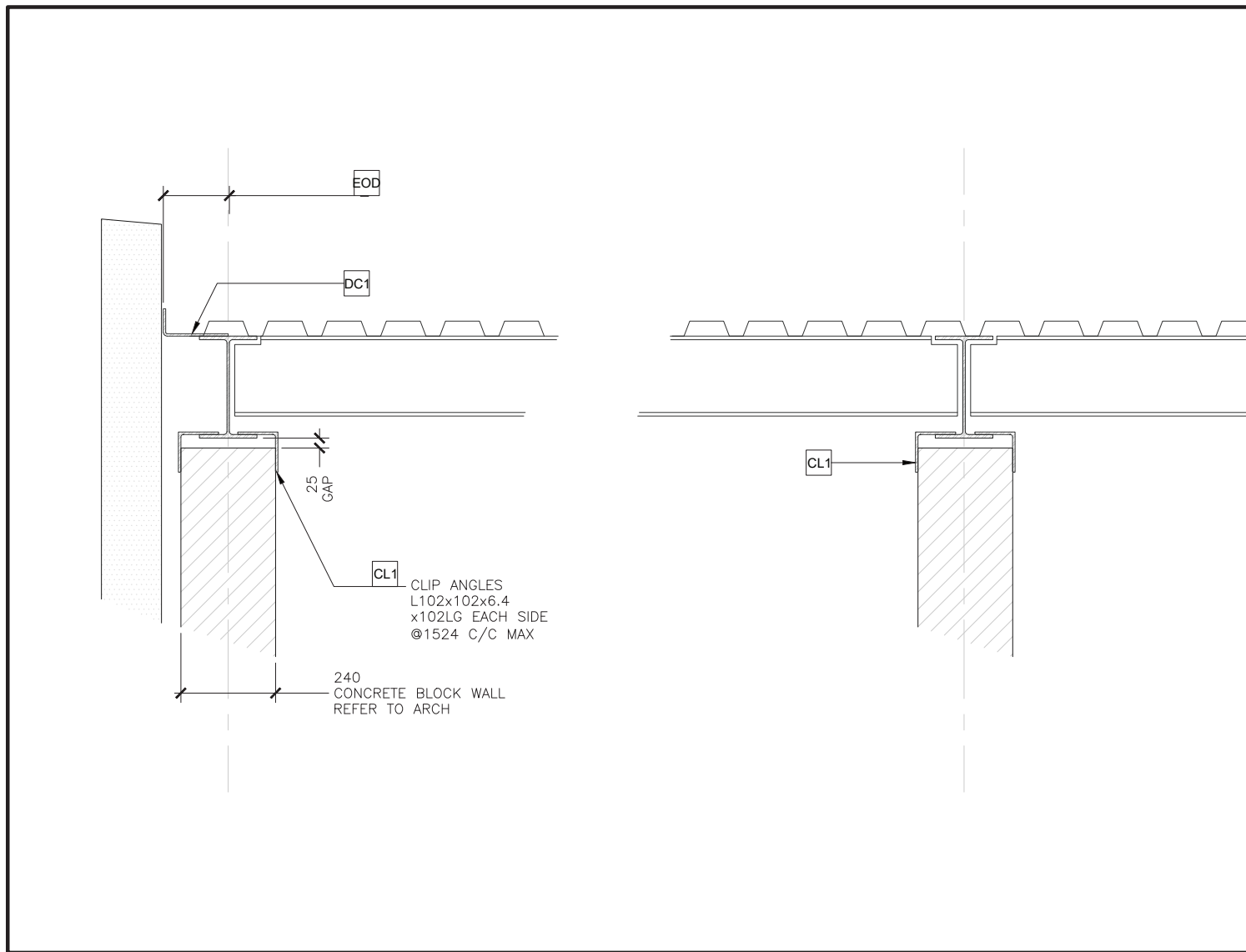
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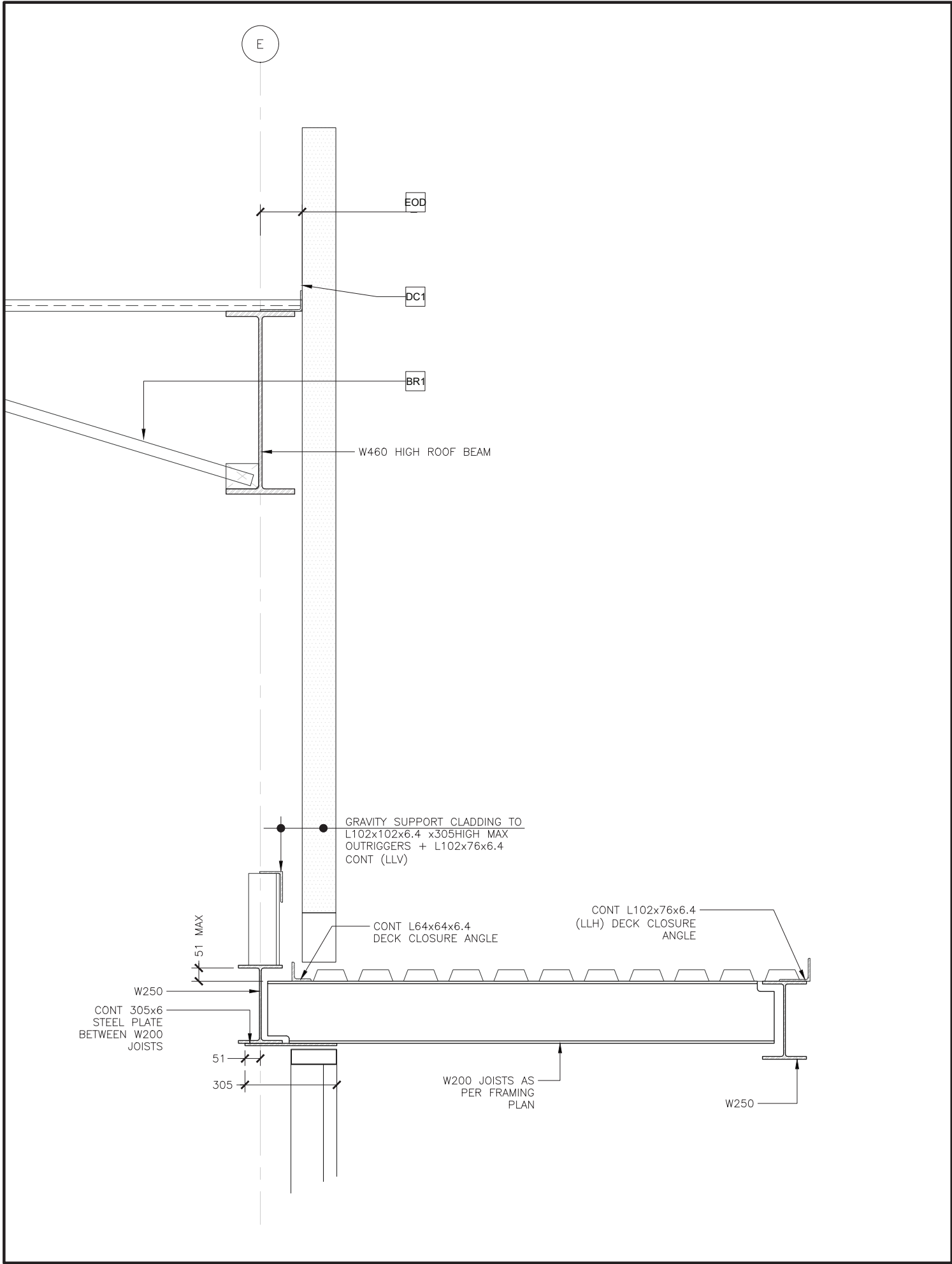
1 SECTION
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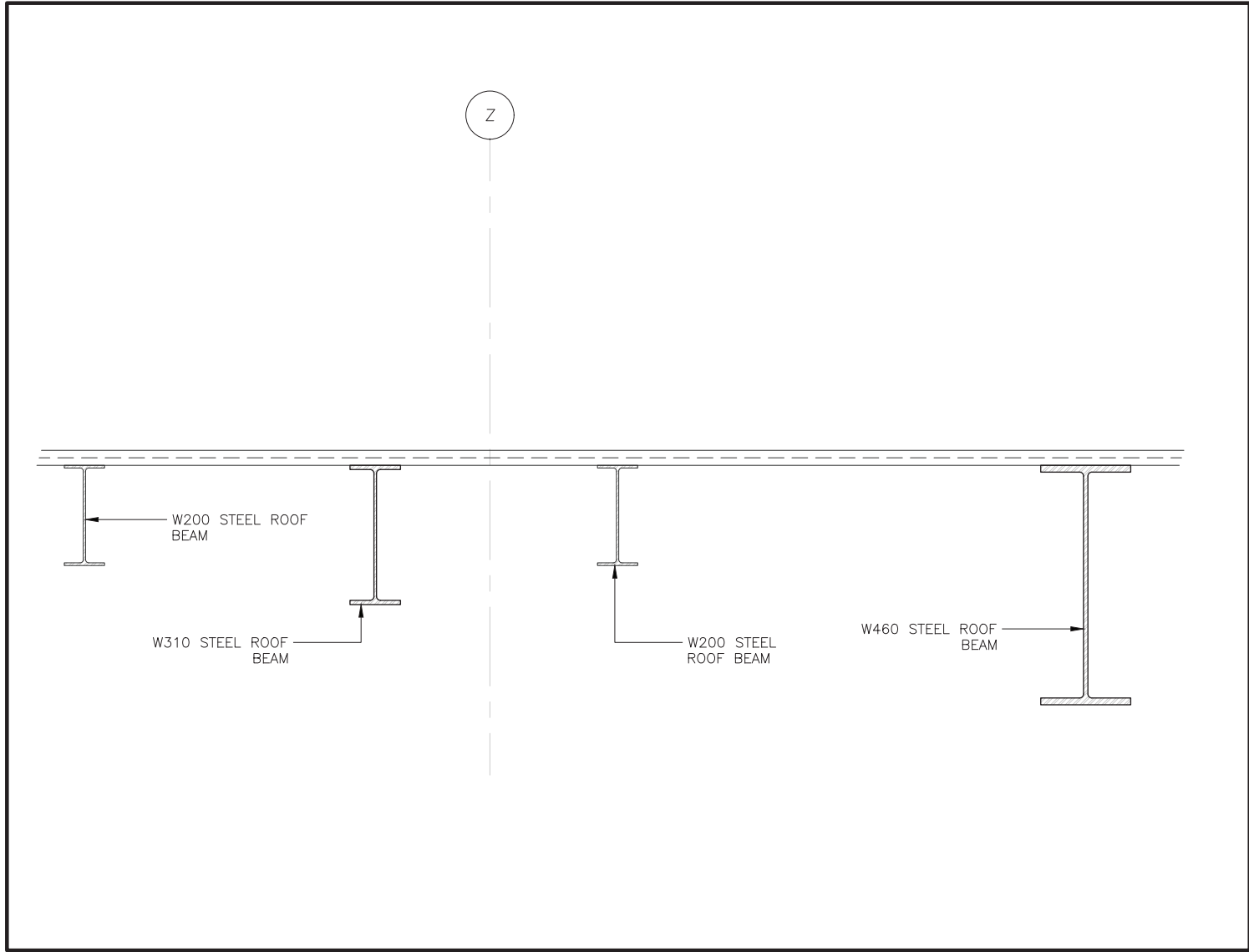
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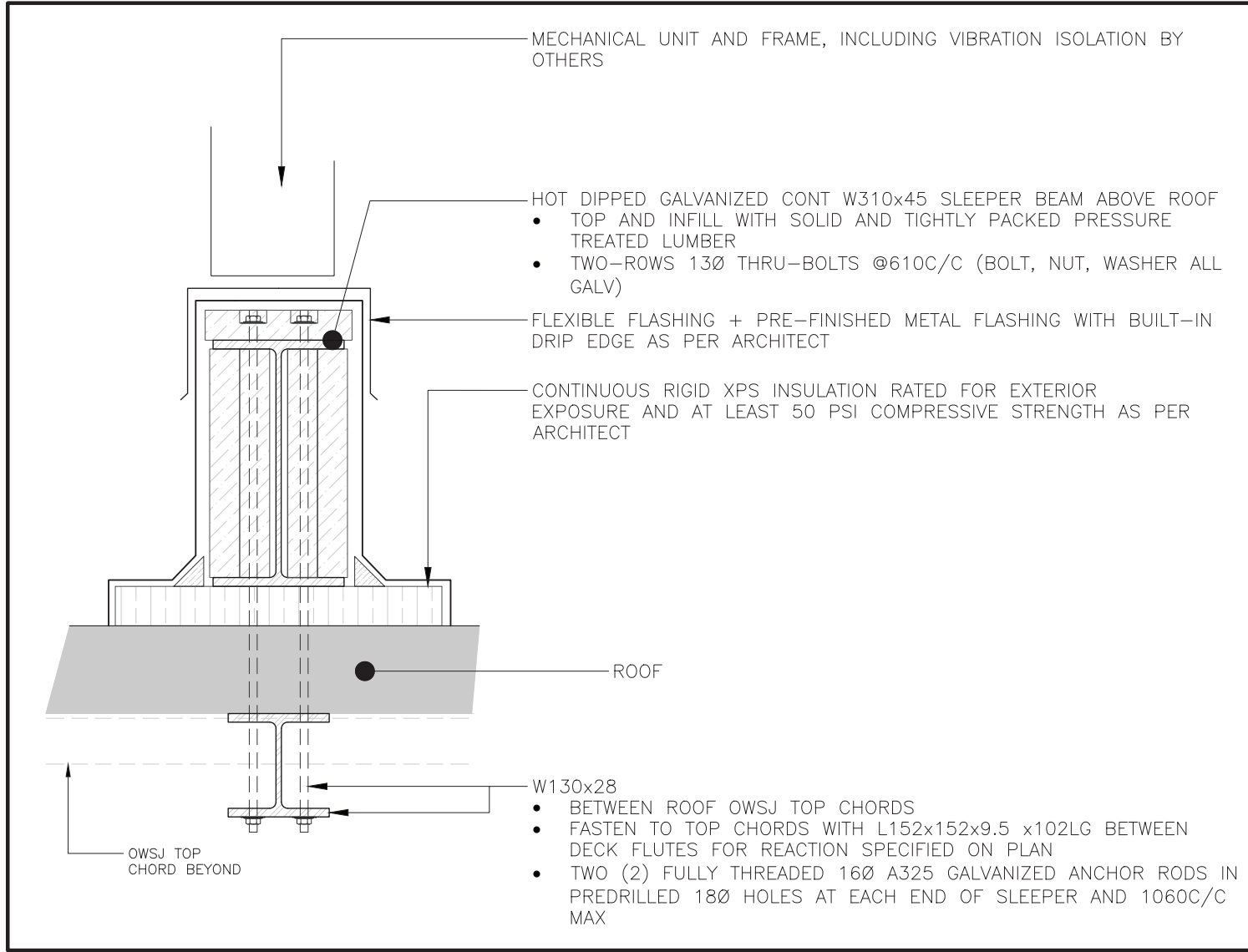
4 SECTION
Scale: 1:16



2 SECTION
Scale: 1:16



5 SECTION
Scale: 1:16



6 SECTION
Scale: 1:8

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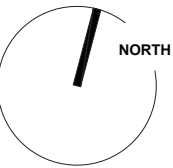
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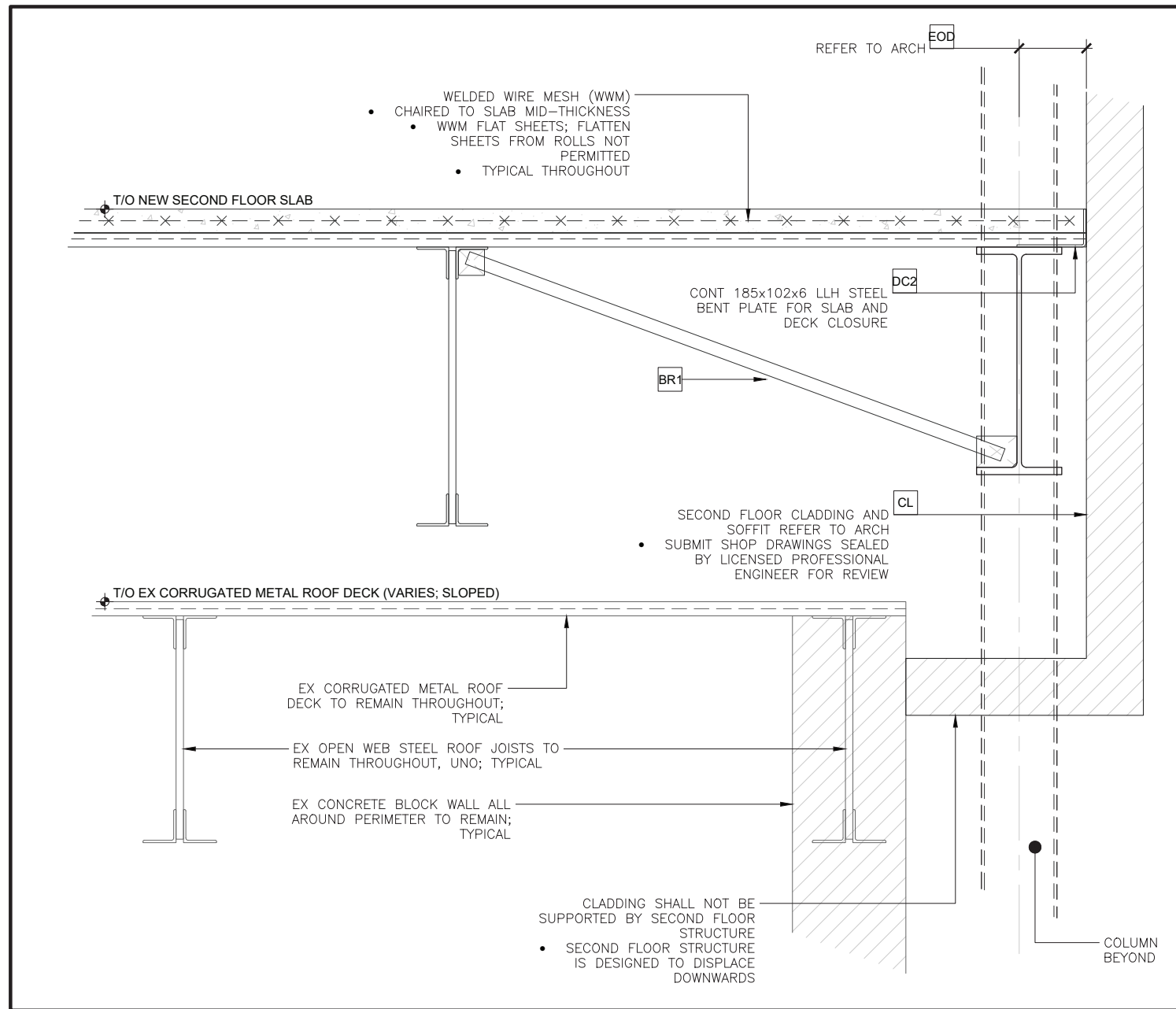
DETAILS

S401

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NEW SECOND FLOOR BEAM

- BEARING ON INTERIOR STUB COLUMN AND TRANSFERRED TO NEW GROUND FLOOR HSS20x3x203
- BEARING ON EXTERIOR HSS178x178 STUBS AT TWO (2) LOCATIONS ON GRIDS 2 & 3 PER PLAN
- SHERA CONNECTION TO EXTERIOR COLUMN

A LEAST TWO (2)
STIFFENERS AT TWO
(2) LOCATIONS AT EXT.
STUBS: ELSE AT LEAST
THREE (3) STIFFENERS

DCL

110Z
[ST]

NEW FLOOR OWSJ

HSS152x152x9.5 STUB BRACE AT ALL EX COLUMNS OUT-TO-DOOR • MAKE MASONRY POCKET THROUGH EX WALL

407

[SB] 178x178 STUB COLUMN AT GRID 2 & 3; P=176kN

SC

NEW HSS20x3x203 STEEL COLUMN P=1,251 kN LOCAL PURCHURE THROUGH EX ROOF DECK TYPICAL THROUGHTOUT

EX ROOF OWSJ TO REMAIN

[ST] AT LEAST THREE (3) FULL DEPTH STEEL WEB STIFFENERS EACH SIDE OF WEB P=1,251 kN TYPICAL THROUGHTOUT

EX SLOPING STEEL ROOF BEAM FIELD VERIFY EX HSS178x178 STEEL COLUMN

NEW HSS20x3x203 COLUMN

R/L FIELD WELDED STEEL COLUMN AND STUB CAP PLATES

- ALL CO2 AND STUB PLATES +25 WIDER THAN BEAMS
- EX WS30x48 b = ±165
- EX W48x97 d = ±180
- TYPICAL ALL COLUMN AND STUB CAP PLATES
- P=1,251 kN

Structural section drawing of a building roof and second floor. The drawing shows a cross-section of the roof assembly, including the second floor, roof deck, and various steel beams and girders. Key components labeled include:

- SECOND FLOOR OWS
- SECOND FLOOR STEEL BEAM
- BR1
- CONT. 10 THICK STEEL PLATE (BEYOND TERRACE)
- CLADDING BEYOND TERRACE
- 10
- 450 MAX
- W250 STEEL TERRACE OUTRIGGER BEAMS
- W310 DROPPED STEEL TERRACE GIRDER
- C250 CONT
- HSS152x152 STUB COLUMN FOR TERRACE SUPPORT
- EX. HORIZONTAL LGS. DISCARDED EX JOIST
- NEW W760 ALIGNED WITH EX ROOF GIRDER BEAM CANTILEVER
- 6 S402
- EX CORRUGATED METAL ROOF DECK TO REMAIN

NEW FLOOR OWSJ

NEW FLOOR BEAM

EX ROOF OWSJ TO REMAIN

EX ROOF STEEL BEAM TO REMAIN

DC2

CL

BCX - OWSJ BOTTOM CHORD EXTENSION AT ALL COLUMNS

SB - EXCEPT AT GRID E REFER TO ELEVATIONS AND FULL DEPTH STEEL WIDE FLANGE BEAM

EX ROOF OWSJ TO REMAIN

EX ROOF STEEL BEAM TO REMAIN

DCB

CL

POCKET THROUGH EX. BRICK AND BLOCK WALL (TYPICAL)

NEW HRS203x203 STEEL COLUMN TO NEW HIGH ROOF
P1=605 kN TYPICAL

NEW SECOND FLOOR BEAM

- BEARING ON INTERIOR STUB COLUMN AND TRANSFERRED TO NEW GROUND FLOOR HSS203x203
- FASTENED TO INTERIOR HIGH ROOF COLUMN AND TRANSFERRED TO STRENGTHENED HSS178x178

NEW FLOOR OWSJ

EX SLOPING STEEL ROOF BEAM; FIELD VEIN

NEW STEEL COLUMNS AS PER PLAN
P1=1,251 kN
TYPICAL THROUGHOUT

EX HSS178x178 COLUMN STRENGTHEN AS SPEC'D
• TYPICAL AS PER FRAMING PLANS

NEW STEEL COLUMNS AS PER PLAN
P1=1,251 kN
TYPICAL THROUGHOUT

EX STEEL COLUMNS AS PER PLAN
P1=1,251 kN
TYPICAL THROUGHOUT

EX ROOF OWSJ TO REMAIN

20 MAX TYPICAL
±203 MAX

SYSTEM EDGE OF EX ROOF ORDER BRICKS, CANTILEVER

Architectural section drawing showing a 203 column and a U/S second floor deck. The column is labeled "203 COLUMN" and the deck is labeled "U/S SECOND FLOOR DECK". A detail callout indicates "BLOCK TIGHT TO U/S BEAM". The drawing includes hatching for different materials and dimension lines.

The image contains two structural drawings for the second floor of a building.

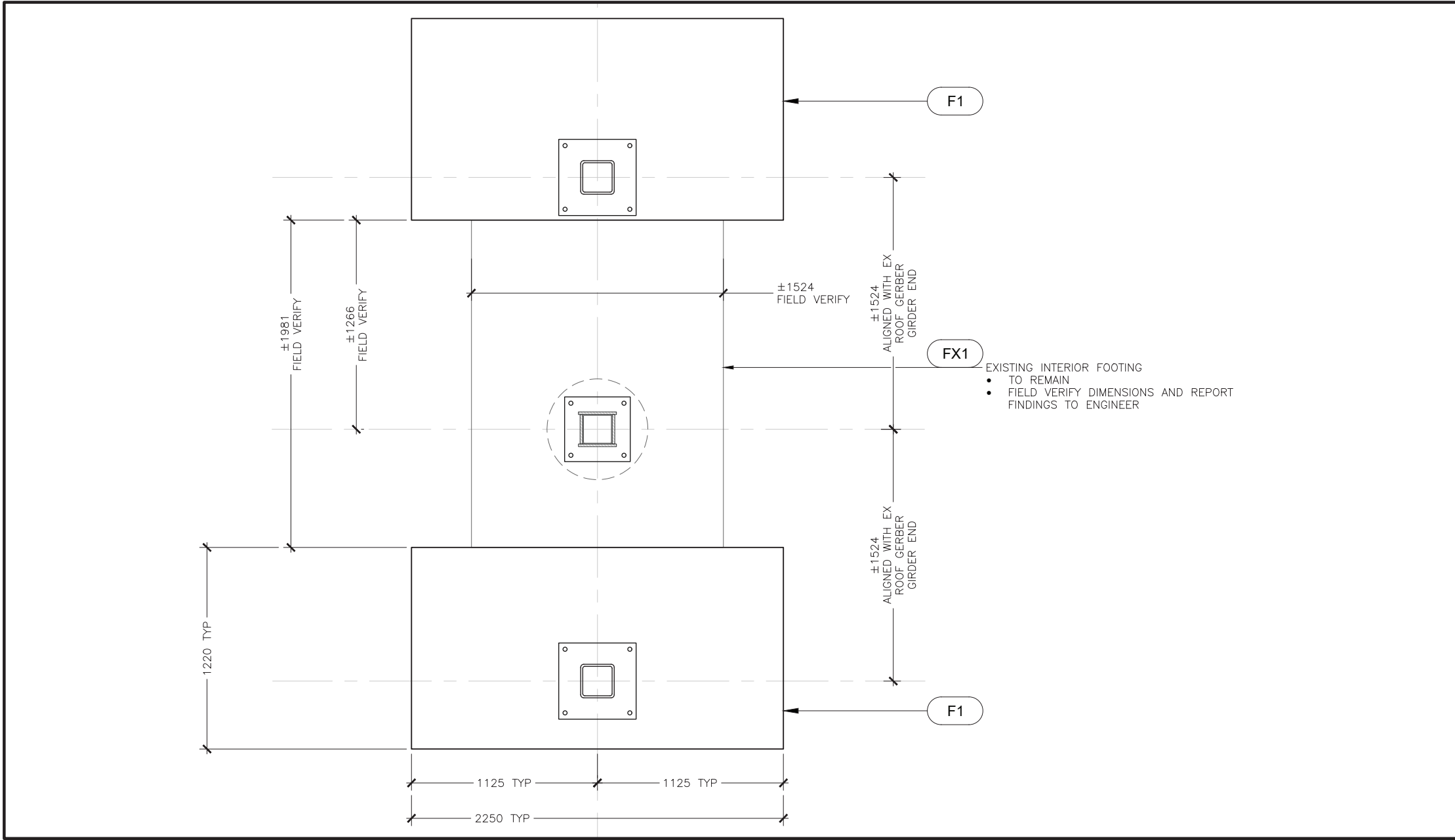
Top Drawing (Plan View):

- Shows a horizontal section of the second floor with a grid line labeled "ALL ALONG GRID Z".
- Dimensions: "L102x102x6.4 @ 12200/C" and "MAX = L25x25x4.8".
- Notes: "DIAGONAL BRACE AT EACH OUTRIGGER" and "CT=204N".
- A dimension of "400 MAX" is indicated for a specific section.
- Labels: "CRANKED STEEL STAIR STRINGERS AND LANDINGS BY OTHERS" and "FASTENING TO BEAM SHOWN BELOW".
- Other labels: "SECOND FLOOR STEEL BEAM" and "SECOND FLOOR OWSJ".

Bottom Drawing (Section View):

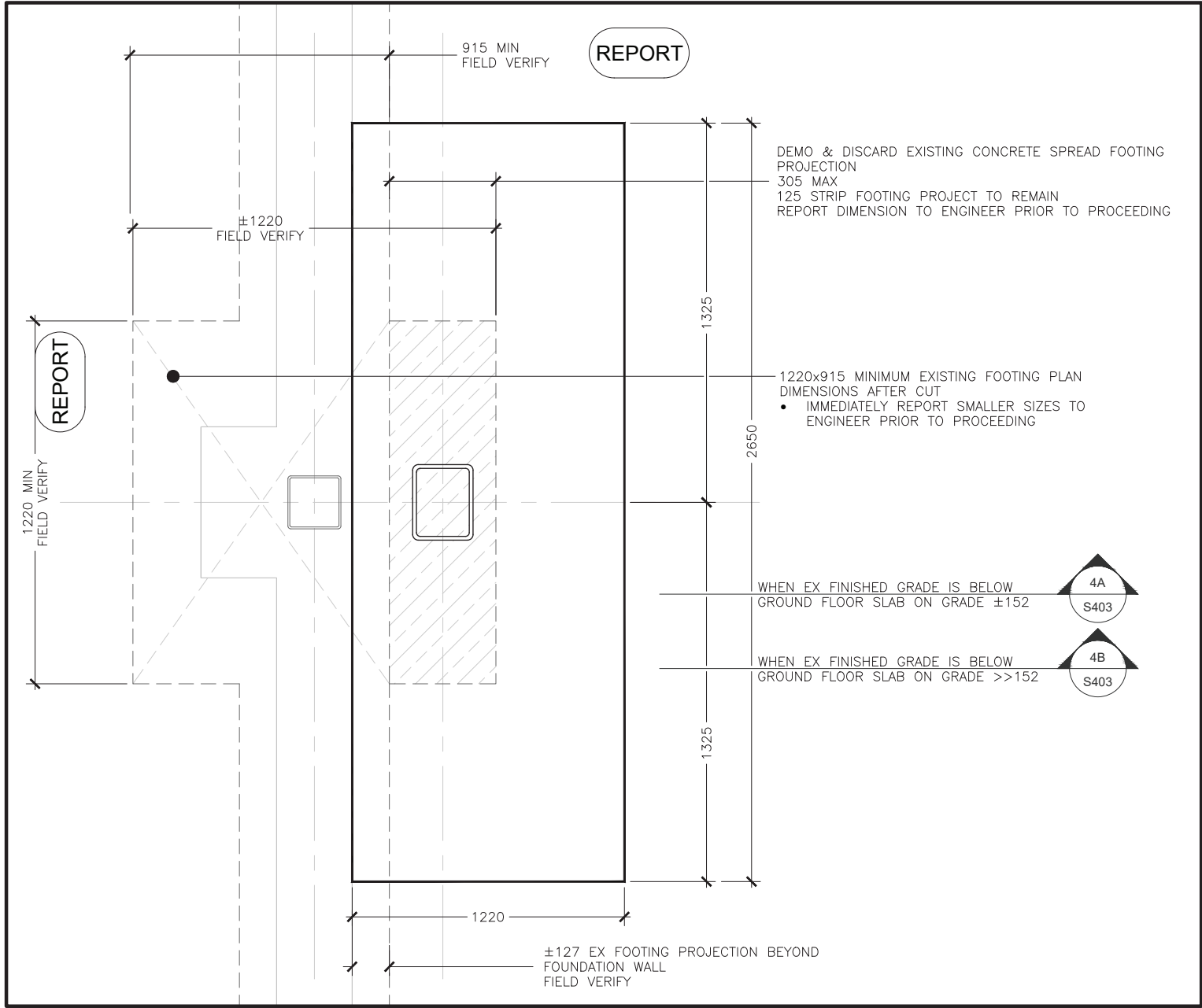
- Shows a vertical section of the second floor.
- Labels: "EX ROOF CORRUGATED METAL ROOF DECK TO REMAIN" and "EX ROOF OWSJ TO REMAIN".
- A note at the bottom left: "AT STAIR STRINGERS - EXTEND TO PERIMETER STEEL BEAM AND ADD NEW STEEL TOP FLANGE AT DEEP COPIES AS SHOWN, DESIGN BY SELECTED STEEL CONNECTION ENGINEER."
- A note at the top left: "AT STRINGERS ONLY" with an arrow pointing to a specific detail.

A simple compass rose with a circle and a vertical line pointing upwards, labeled "NORTH".



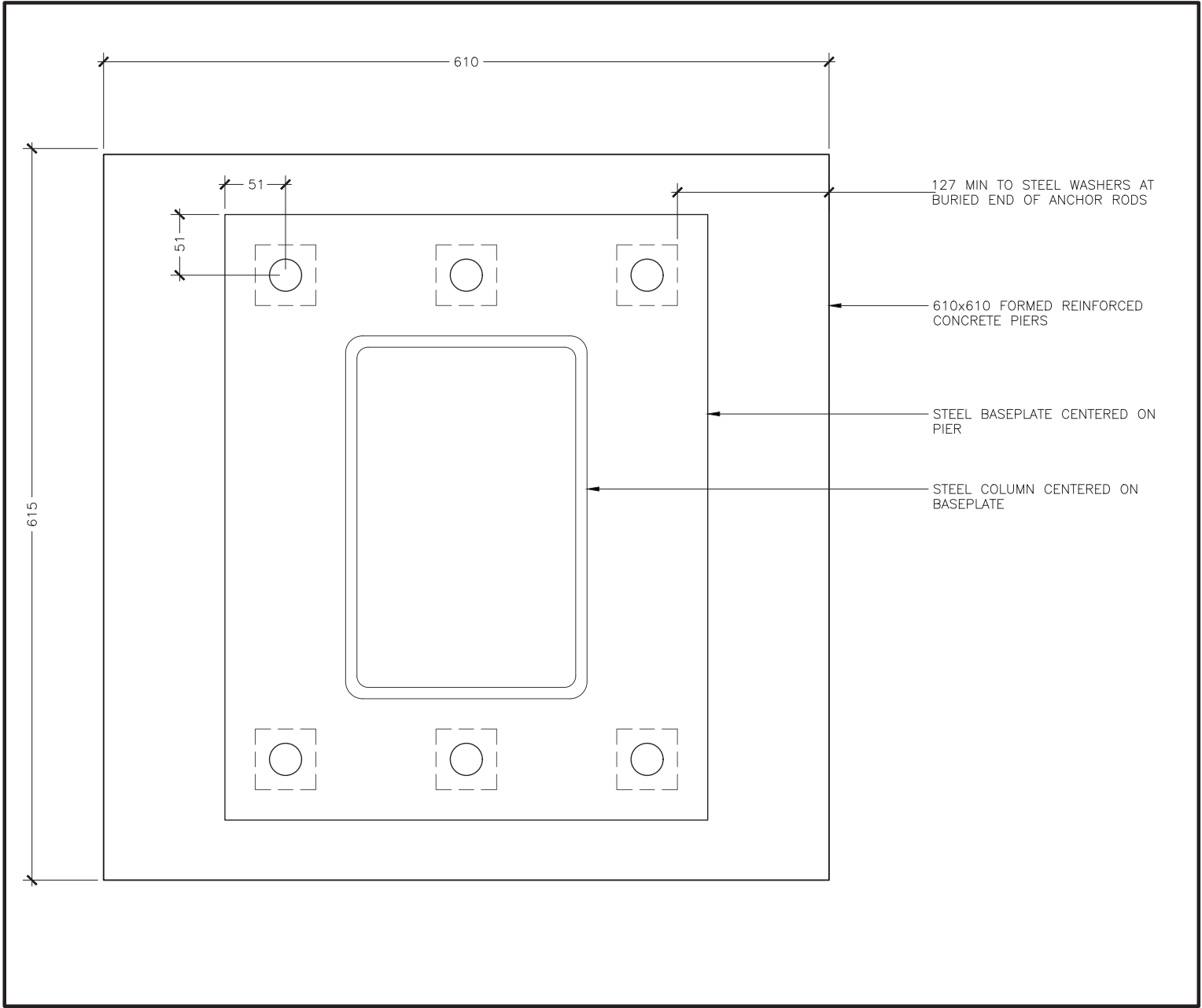
1 PLAN DETAIL

Scale: 1:30



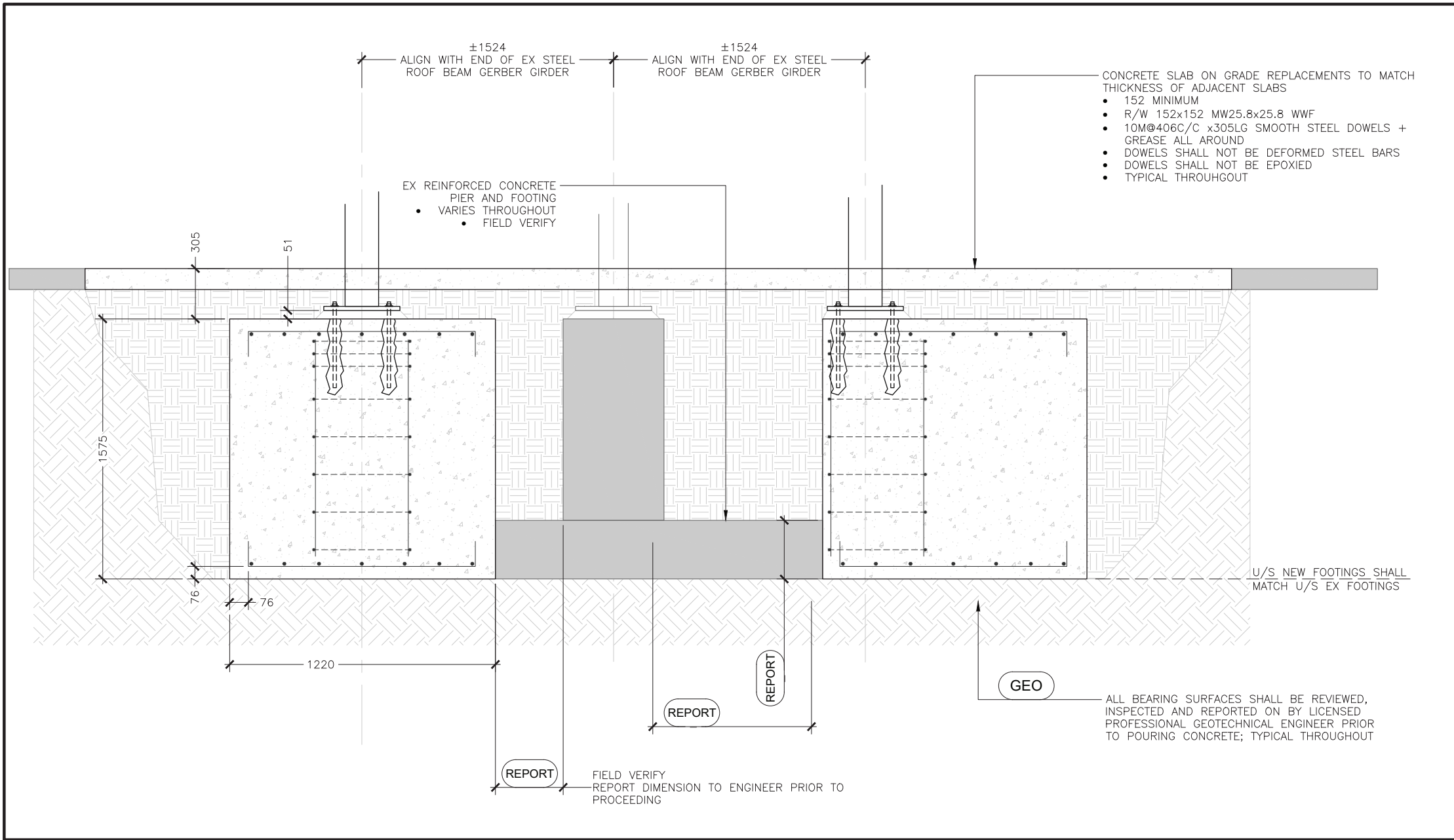
3 PLAN DETAIL

Scale: 1:20



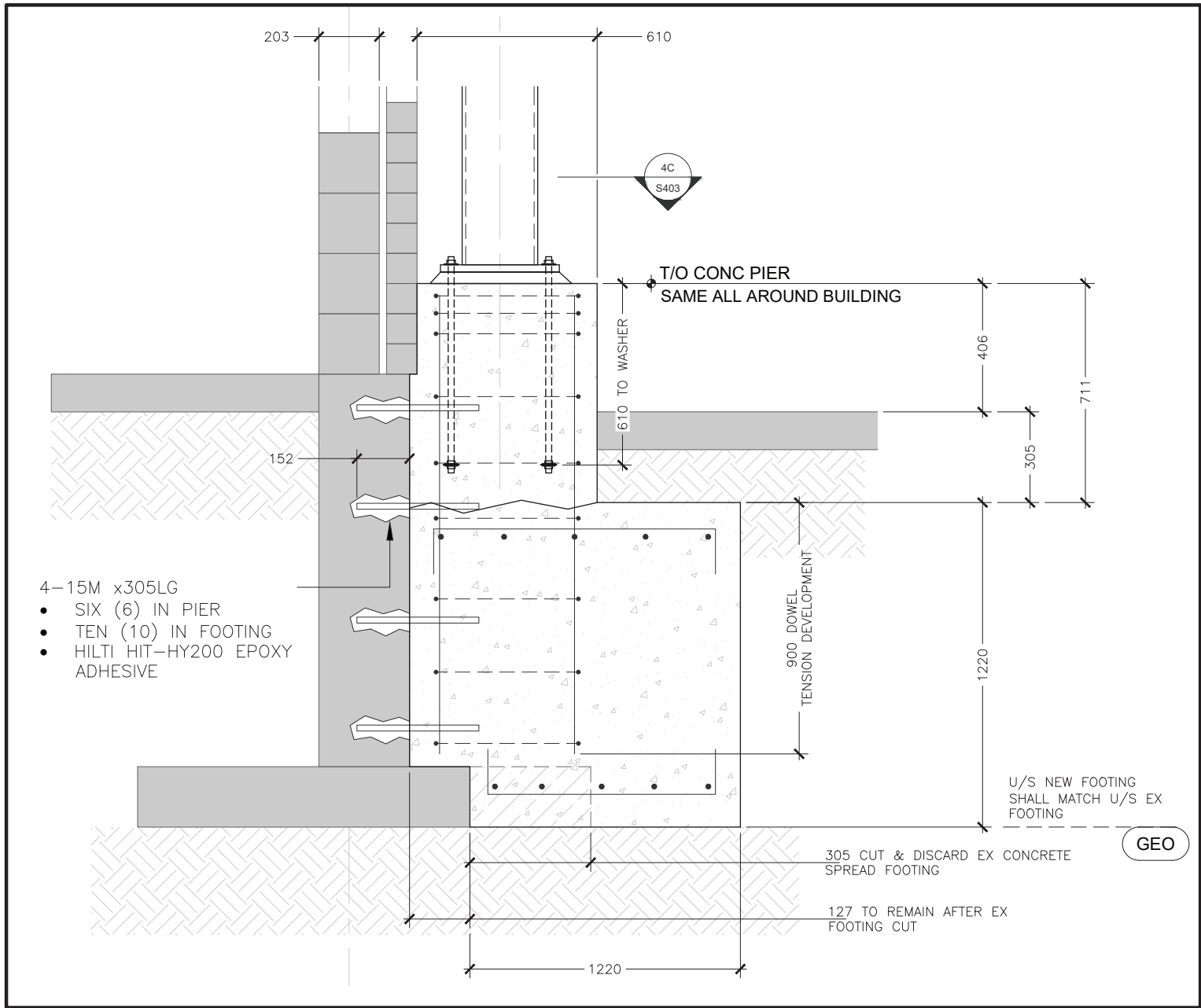
4C PLAN DETAIL

Scale: 1:5



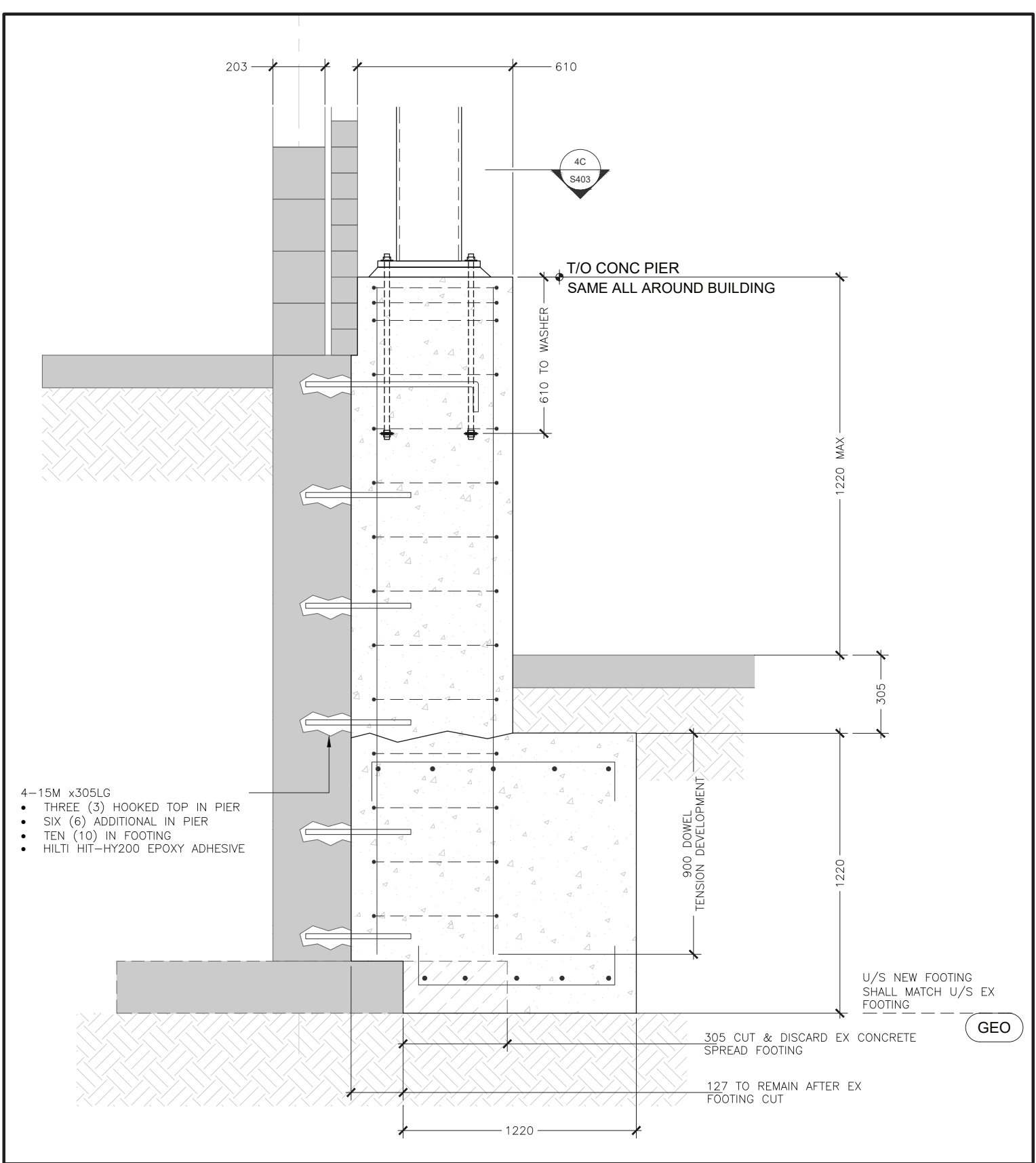
2 SECTION

Scale: 1:30



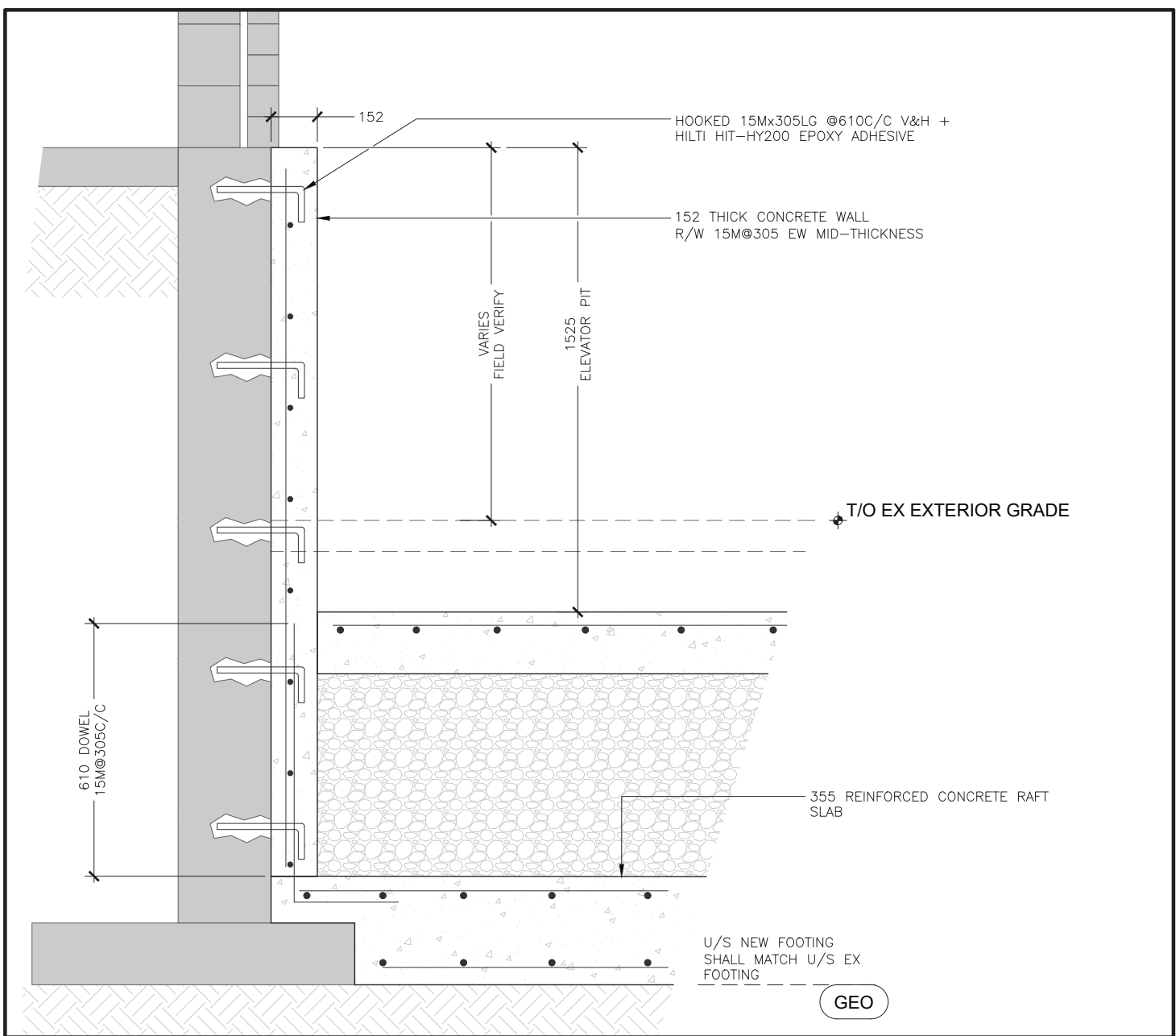
4A SECTION EXTERIOR FOUNDATION AT HIGH EXTERIOR GRADE

Scale: 1:20



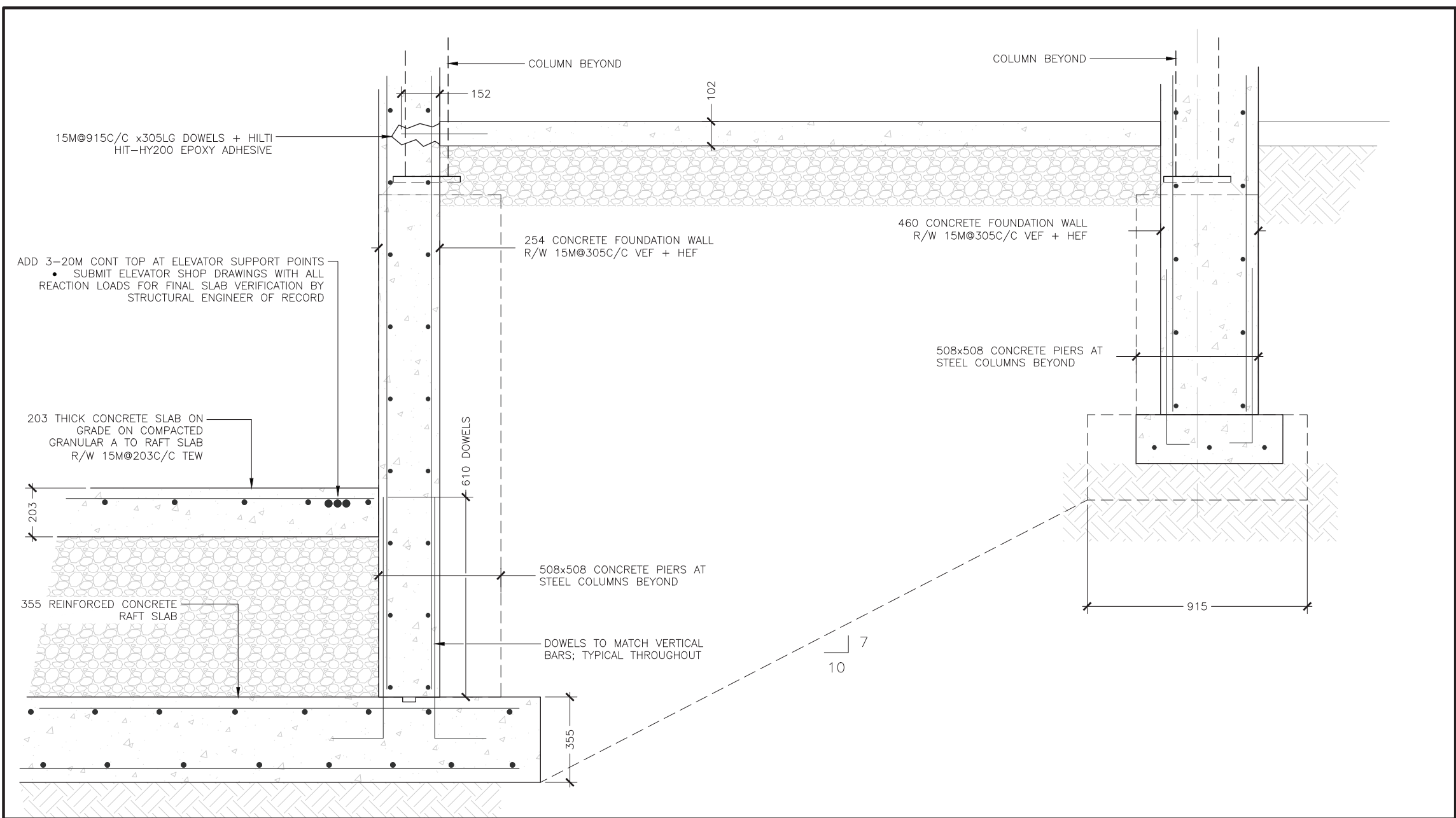
4B SECTION EXTERIOR FOUNDATION AT LOW EXTERIOR GRADE

SCALE: 1:20



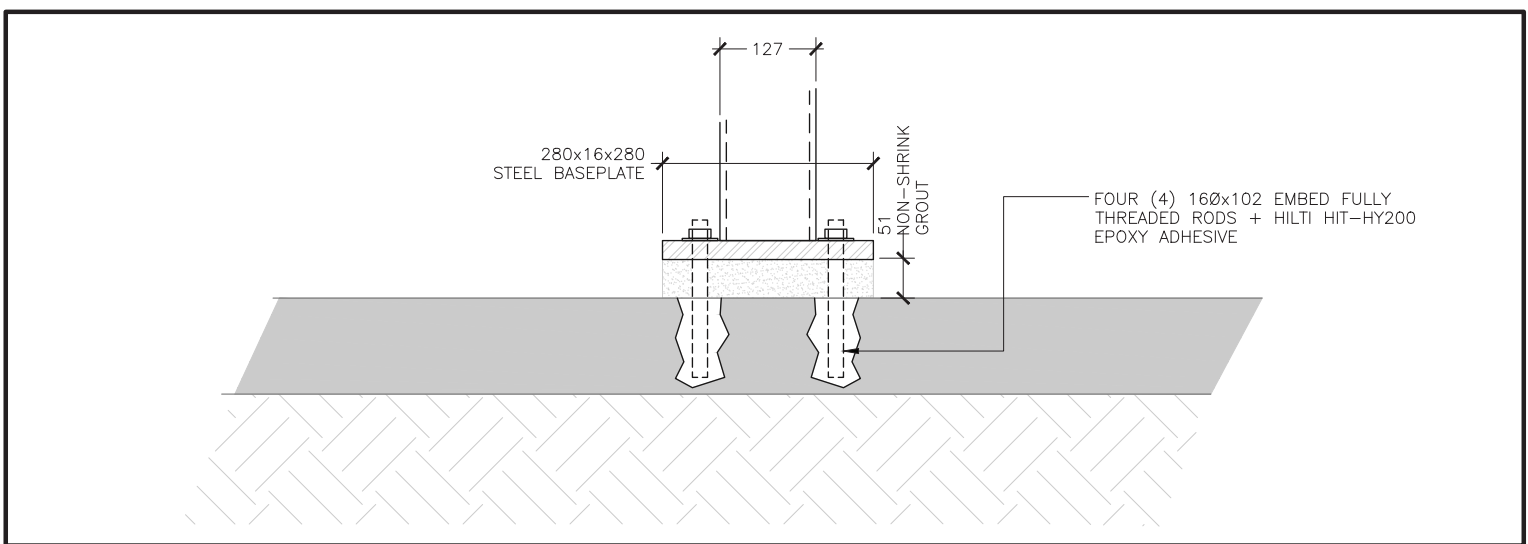
5 SECTION

Scale: 1:20



6 SECTION

Scale: 1:20



7 SECTION

Scale: 1:10

METRIC

METRIC DIMENSIONS ARE IN MILLIMETRES AND
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Issued for Permit and Tender

Review	Permit	Tender	Construction	Change
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4.	Issued for Tender	March 04, 2024
3.	Issued for Permit and Tender	February 16, 2024
2.	Issued for 90% Progress	December 22, 2023
1.	Issued for 75% Progress	November 17, 2023

No. Issuance Date

Project
Accord Plastics Corp.
Rear Addition
Structural

56 Edican Drive
Concord, Ontario
L4K 3S5

Date Last Edit March 04, 2024
Drawn SDA
Checked MGA
File Name S_AccordPlastics
Project No. E23109

DETAILS

S403

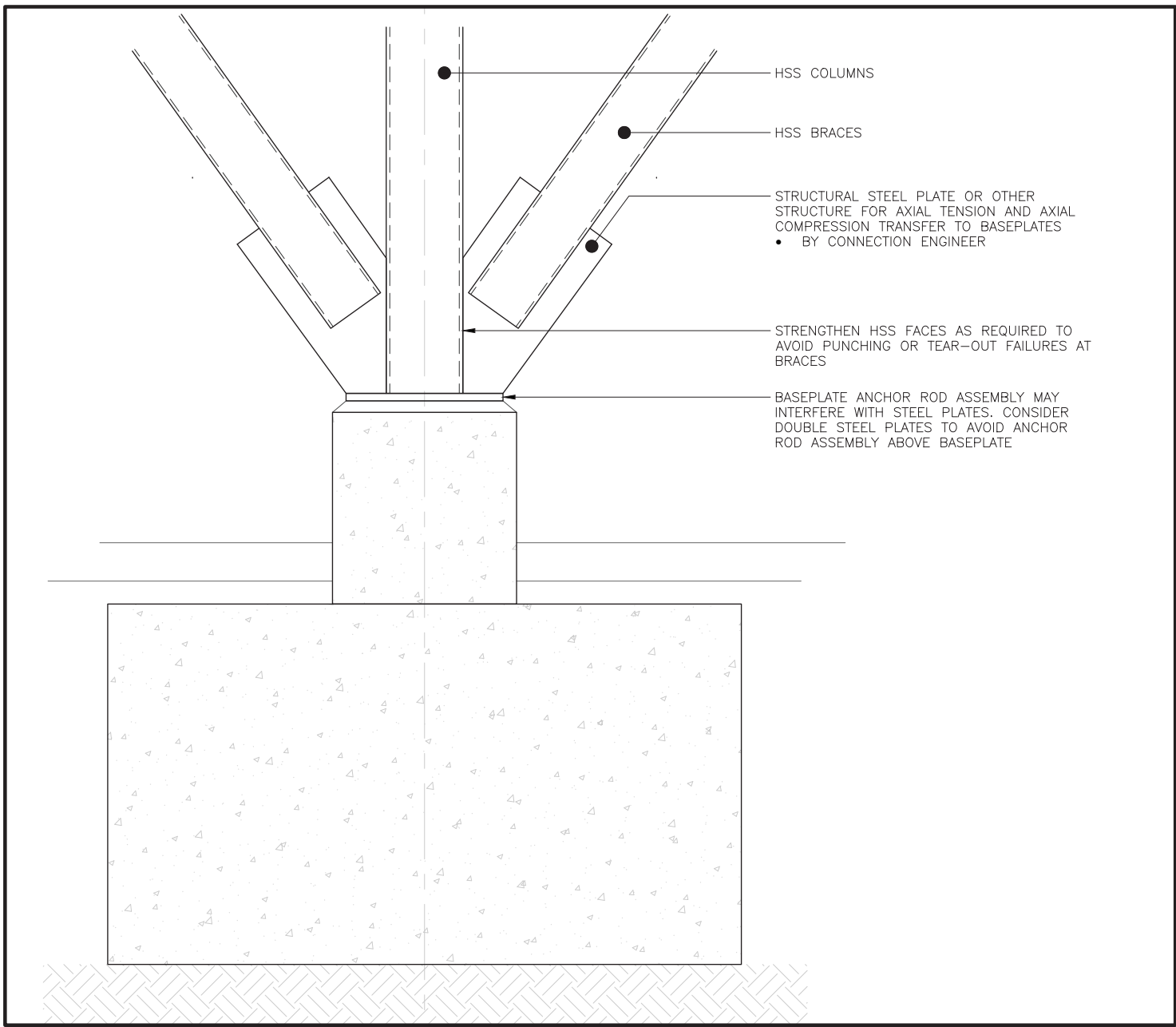
METRIC

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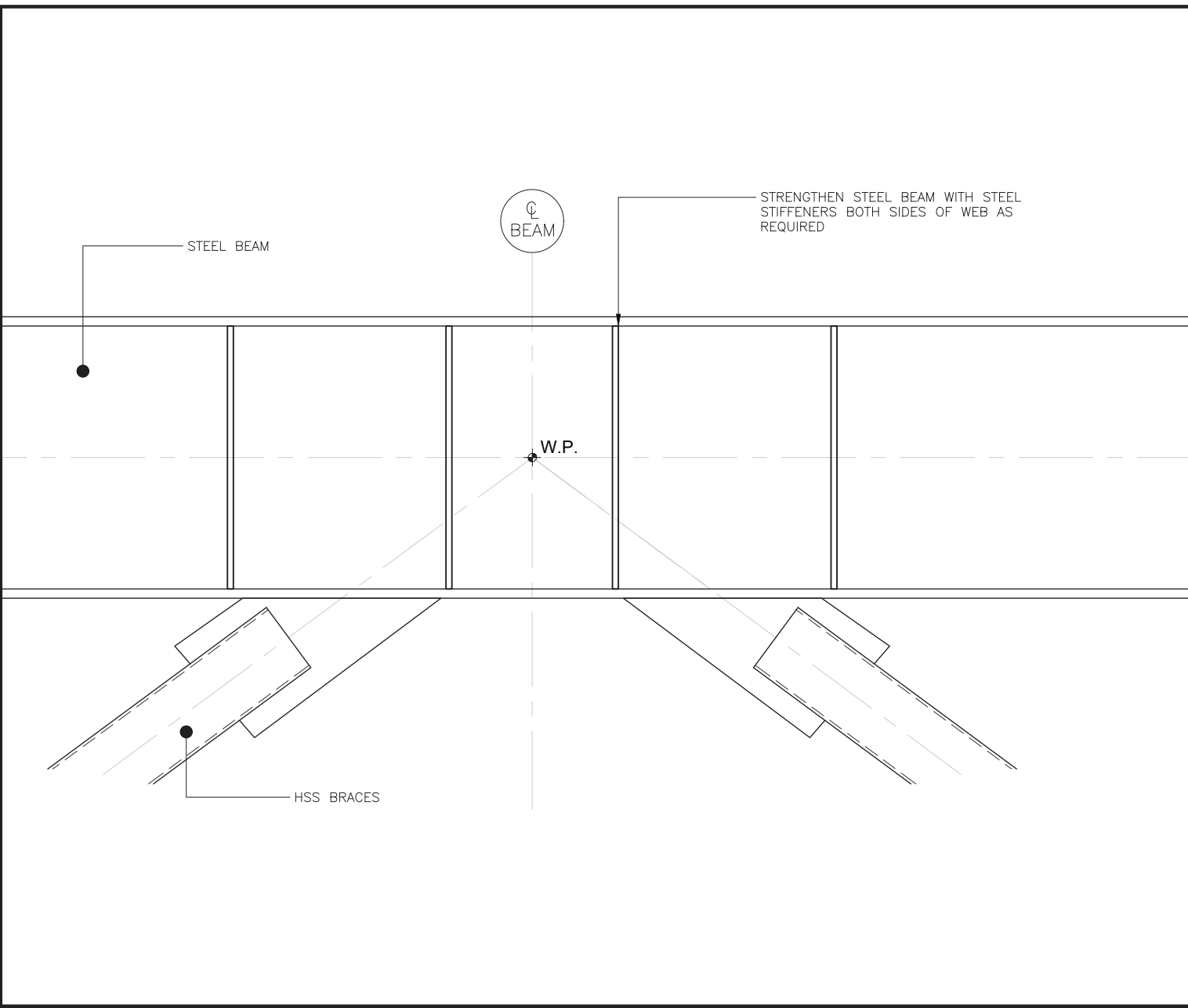
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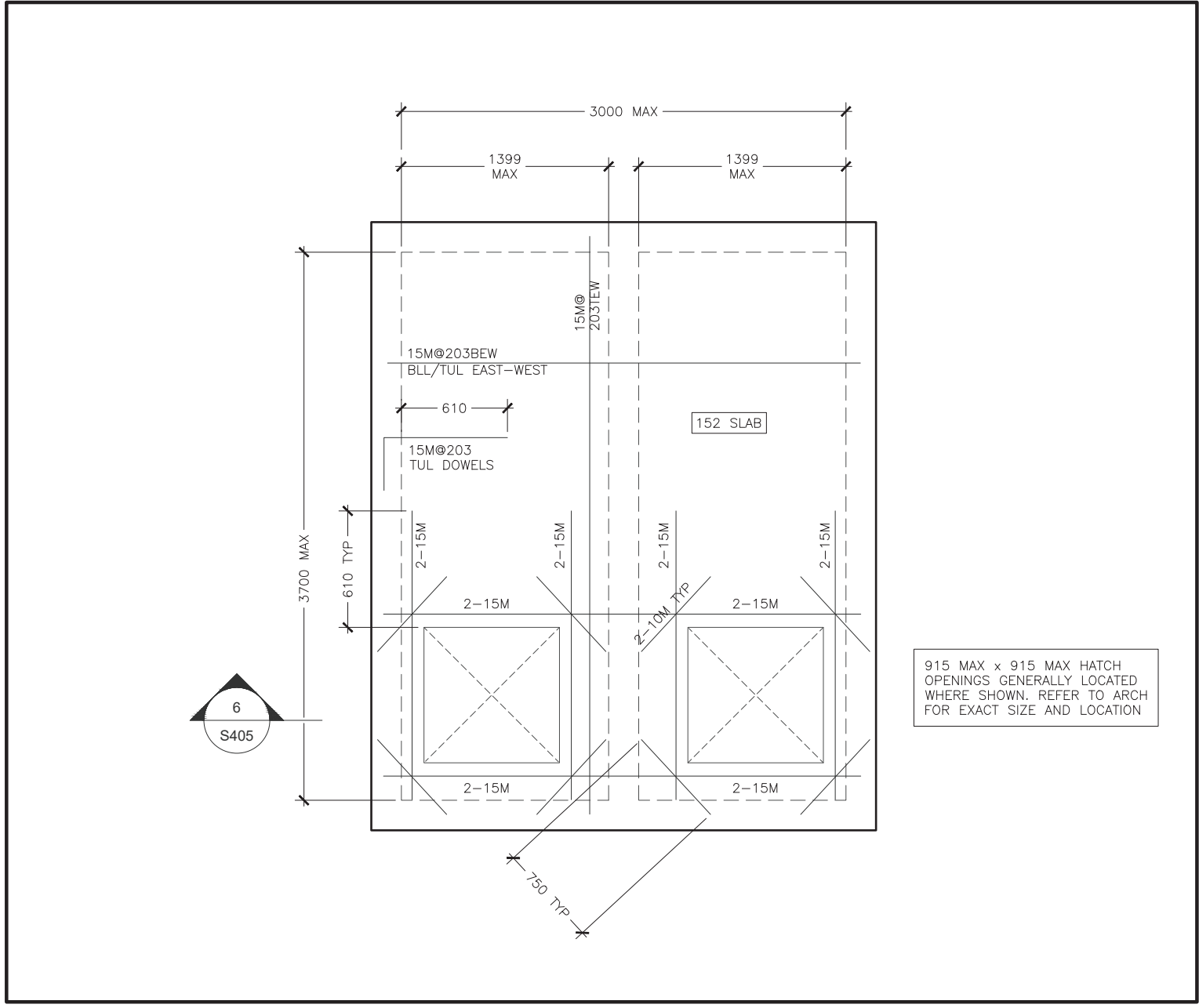
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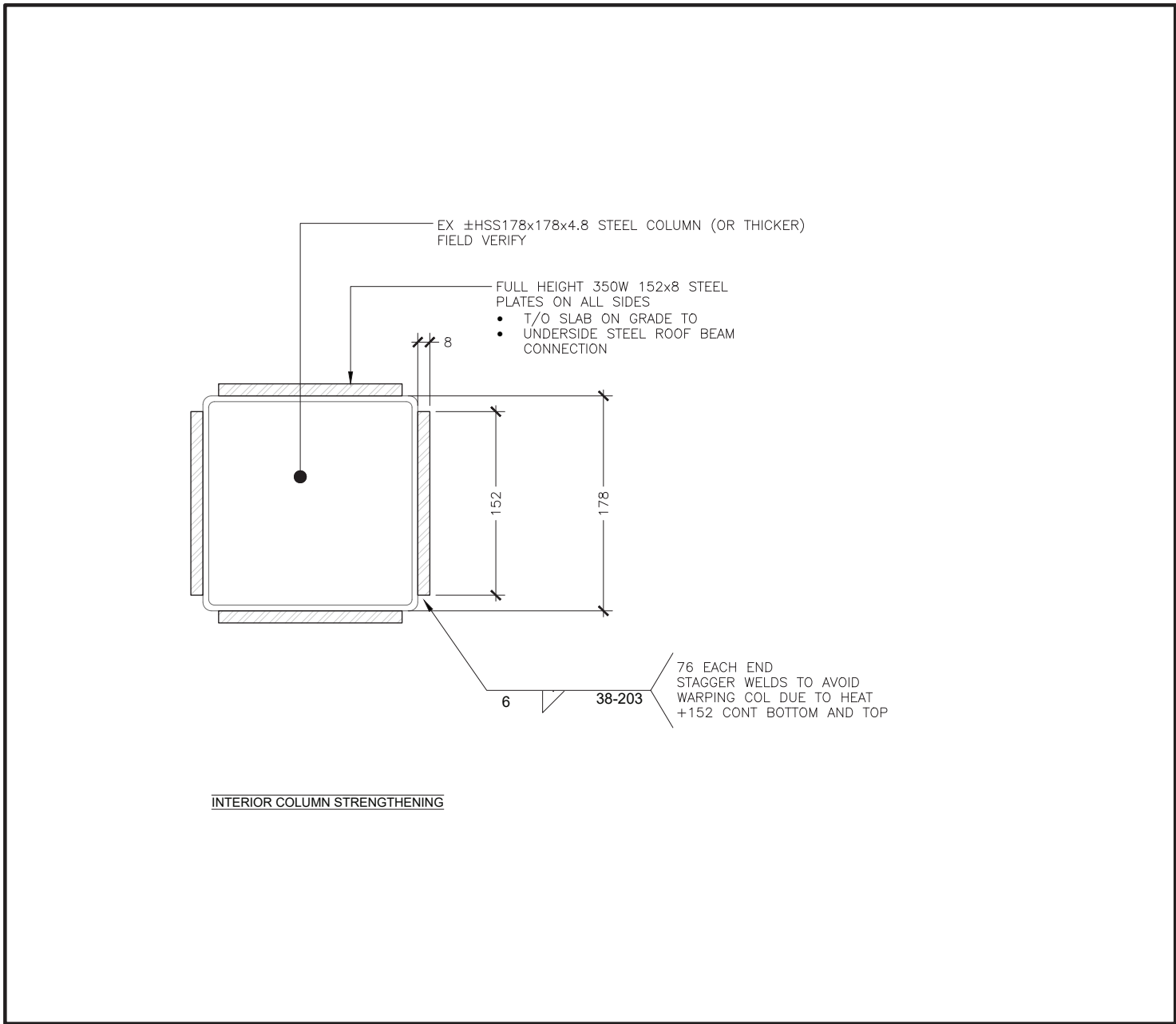
1 ELEVATION DETAIL
Scale: 1:20



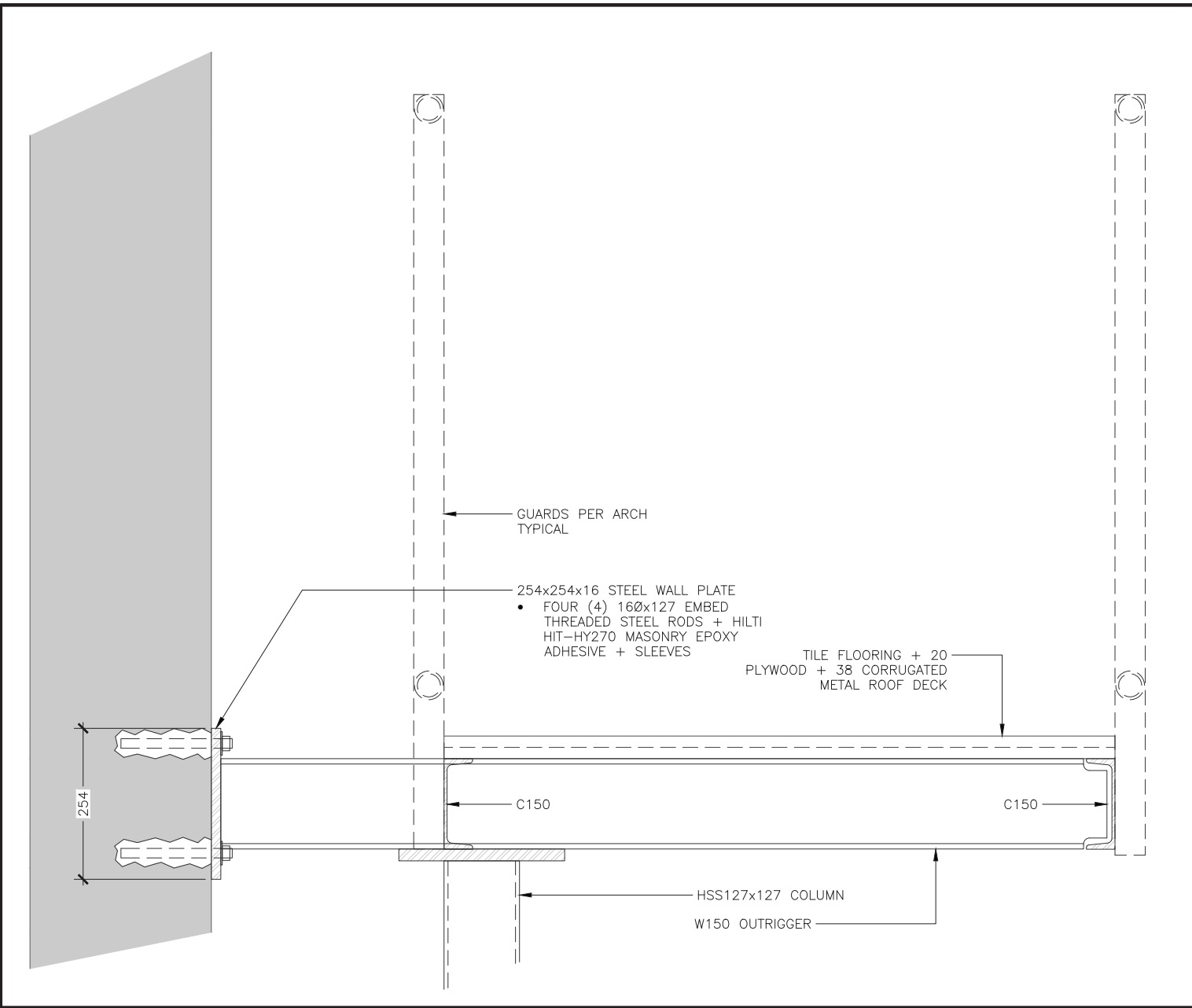
2 ELEVATION DETAIL
Scale: 1:16



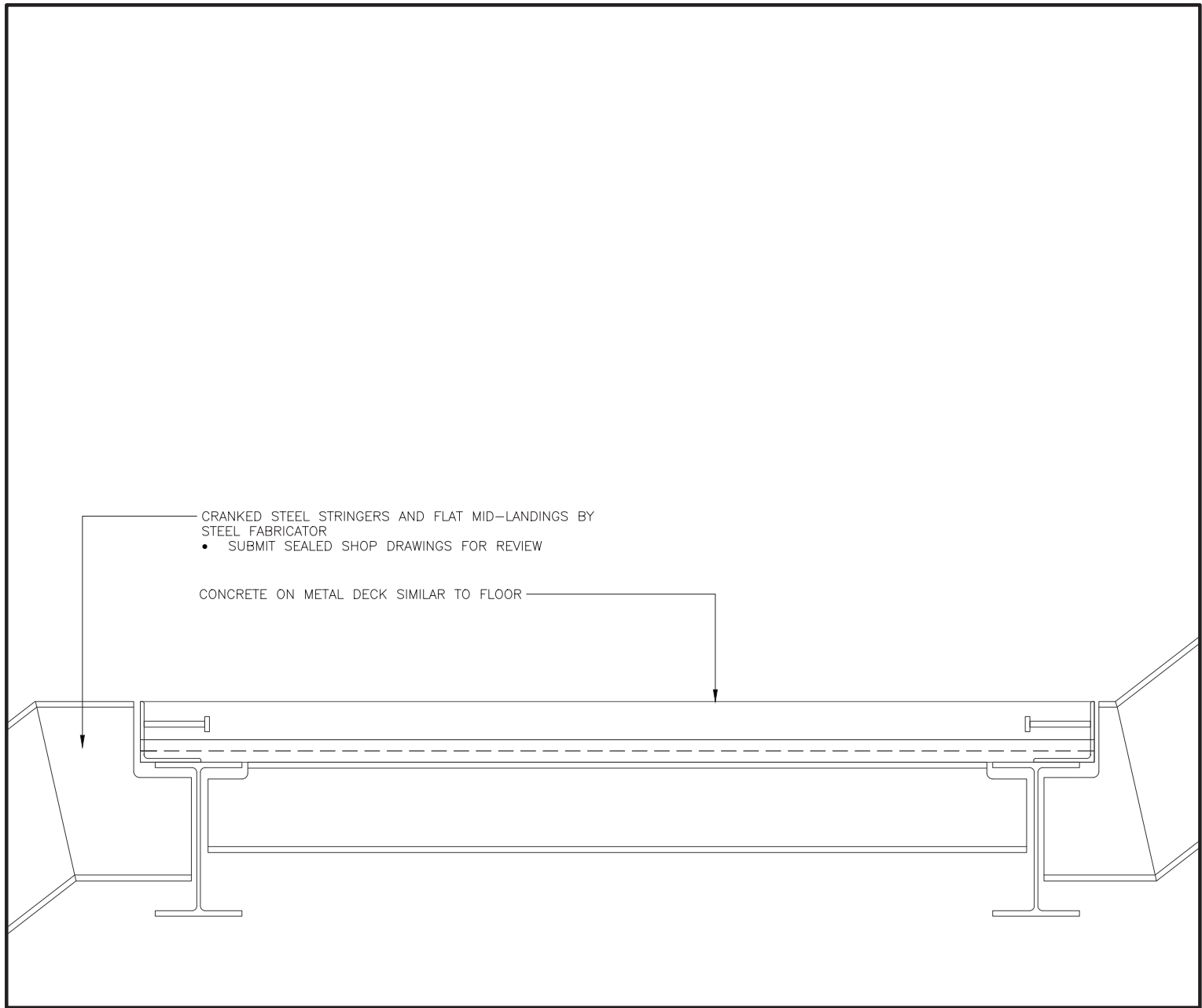
3 WATER TANK FRAMING PLAN
Scale: 1:30



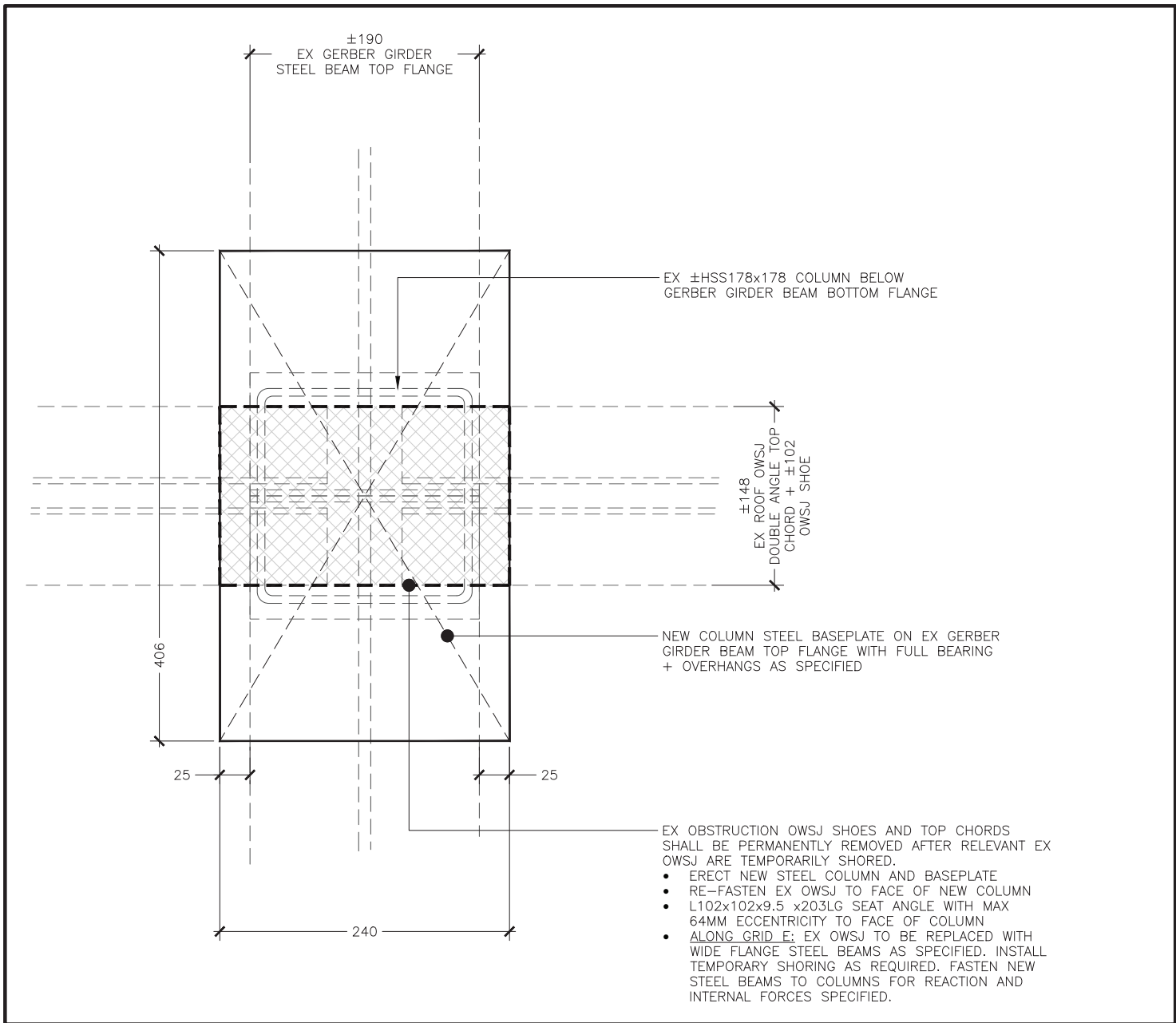
4 PLAN DETAIL: INTERIOR EX COLUMN STRENGTHENING (*)
Scale: 1:5



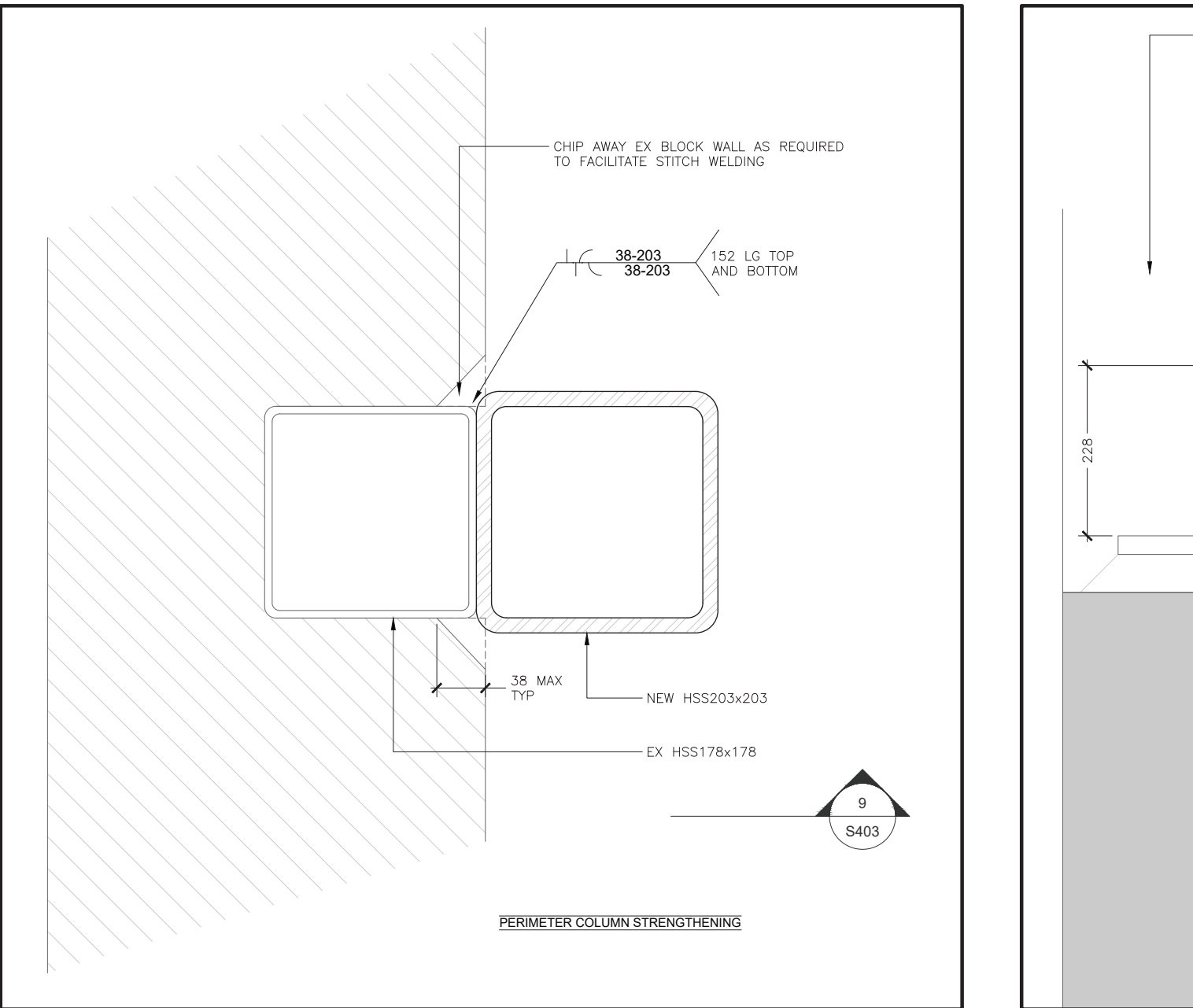
5 SECTION
Scale: 1:10



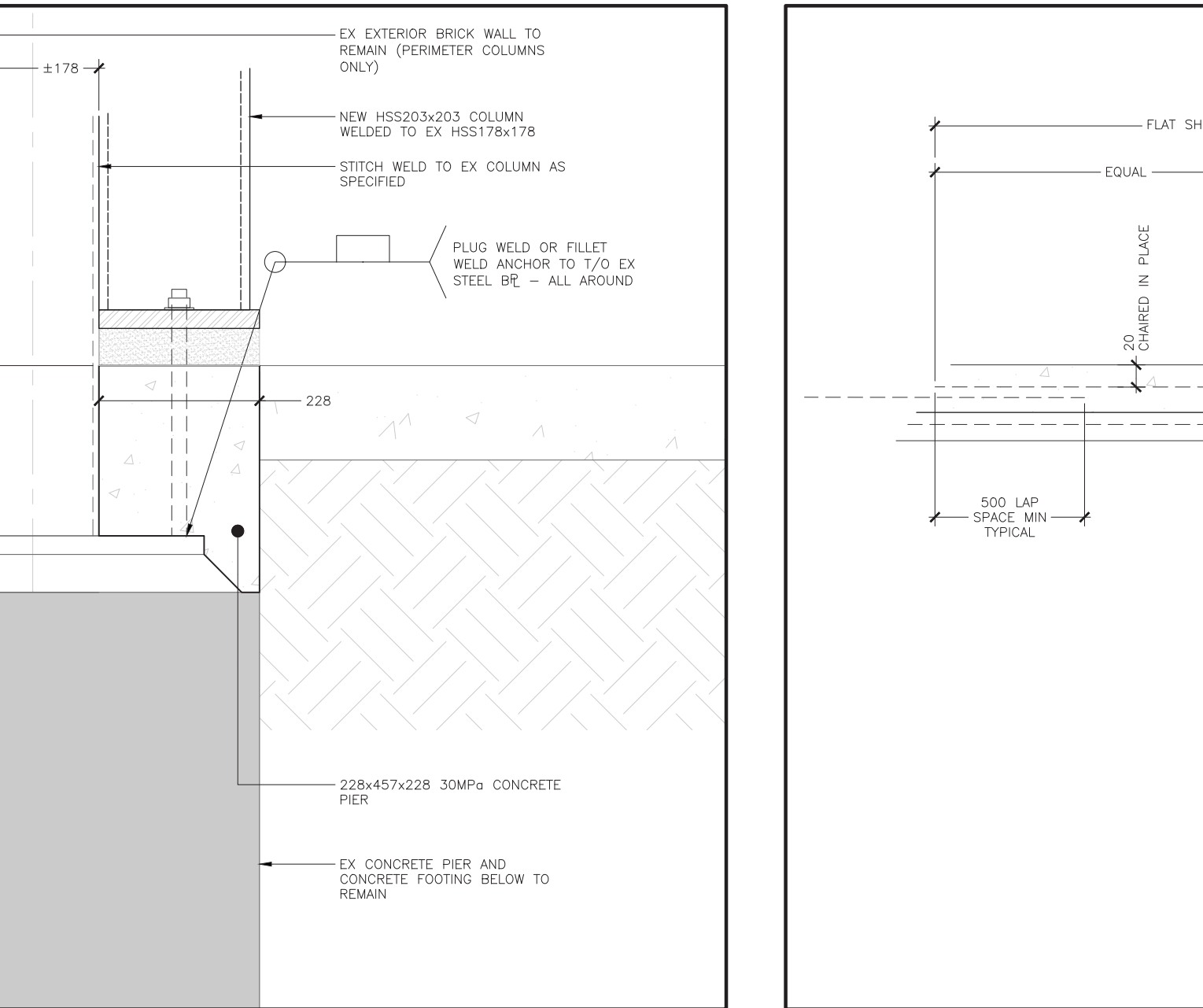
6 SECTION
Scale: 1:10



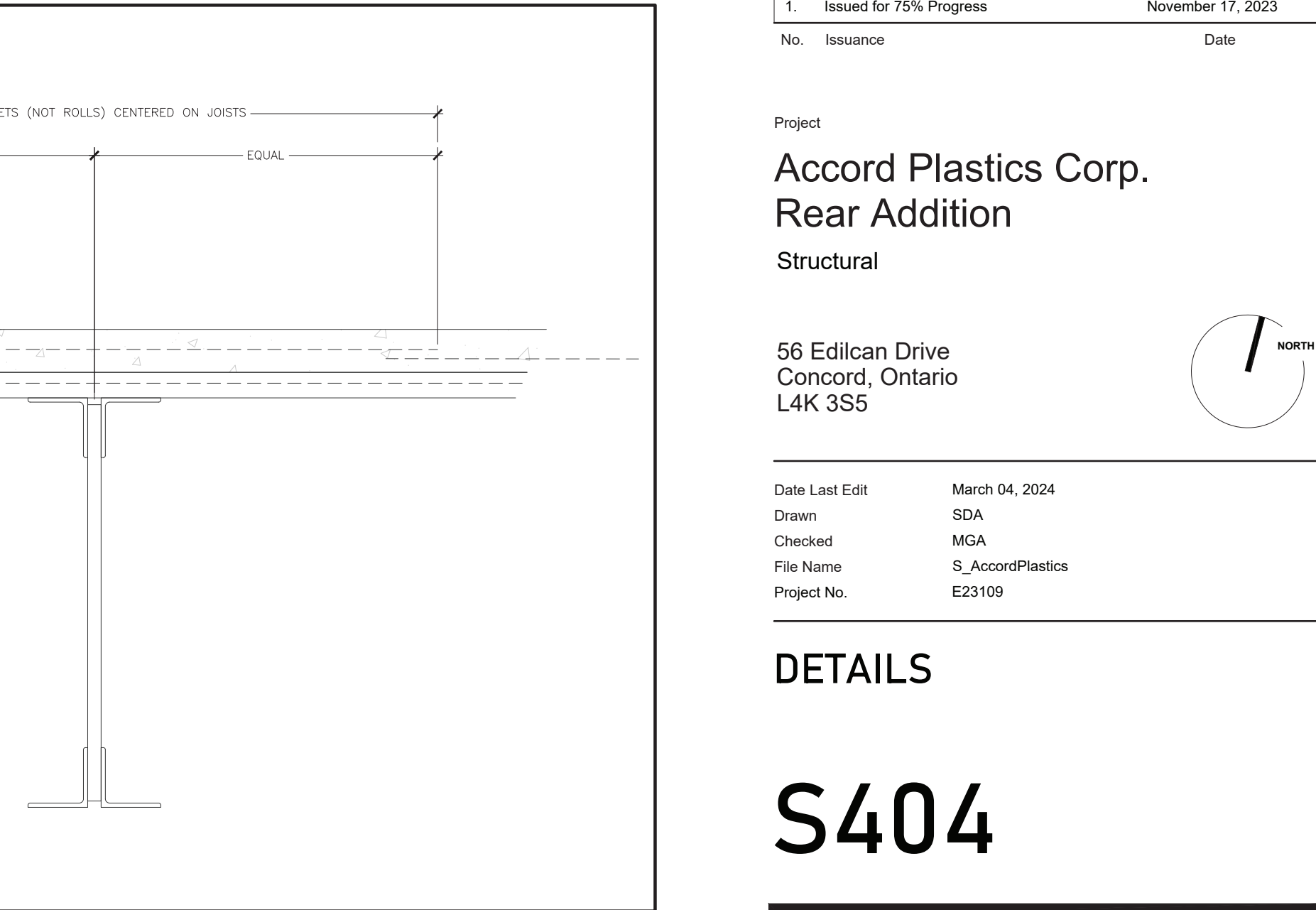
7 PLAN DETAIL: NEW COLUMN ON EXISTING COLUMN
Scale: 1:5



8 PLAN DETAIL: PERIMETER EX COLUMN STRENGTHENING (**)
Scale: 1:5



9 SECTION DETAIL: PERIMETER EX COLUMN STRENGTHENING (**)
Scale: 1:8



10 FLOOR WWF PLACEMENT
Scale: 1:30

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Project
Accord Plastics Corp.
Rear Addition
Structural

56 Edilcan Drive
Concord, Ontario
L4K 3S5

Date Last Edit	March 04, 2024
Drawn	SDA
Checked	MSA
File Name	S_AccordPlastics
Project No.	E23109

DETAILS

S404

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2	SJ1 STRENGTHENING SCHEDULE
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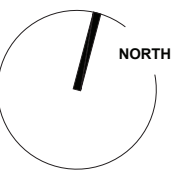
☐ Review
 ☒ Permit
 ☒ Tender
 ☐ Construction
 ☐ Change

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Project

Accord Plastics Corp.
Rear Addition
Structural

56 Edilcan Drive
Concord, Ontario
L4K 3S5



Date Last Edit	March 04, 2024
Drawn	SDA
Checked	MGA
File Name	S_AccordPlastics
Project No.	E23109

DETAILS

S405

MECHANICAL LEGEND

PLUMBING	
SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	EXISTING DOMESTIC COLD WATER
	EXISTING DOMESTIC HOT WATER
	EXISTING DOMESTIC HOT WATER RECIRCULATION
	SANITARY VENT LINE
	EXISTING SANITARY VENT LINE
	BURIED SANITARY DRAIN
	SUSPENDED SANITARY DRAIN
	SANITARY DRAIN IN CEILING SPACE OF FLOOR BELOW
	SANITARY PUMPED DISCHARGE
	EXISTING BURIED SANITARY DRAIN
	EXISTING SUSPENDED SANITARY DRAIN
	EXISTING SANIT. DRAIN IN CEILING SPACE OF FLOOR BELOW
	EXISTING SANITARY PUMPED DISCHARGE
	BURIED STORM DRAIN
	SUSPENDED STORM DRAIN
	STORM DRAIN IN CEILING SPACE OF FLOOR BELOW
	STORM PUMPED DISCHARGE
	EXISTING BURIED STORM DRAIN
	EXISTING SUSPENDED STORM DRAIN
	EXIS. STORM DRAIN IN CEILING SPACE OF FLOOR BELOW
	EXISTING STORM PUMPED DISCHARGE
	CLEANOUT PLUG
	FLOOR CLEANOUT
	CONDENSATE DRAIN (GRAVITY)
	EXISTING CONDENSATE DRAIN (GRAVITY)
	PUMPED CONDENSATE DRAIN
	EXISTING PUMPED CONDENSATE DRAIN
	NATURAL GAS LINE
	EXISTING NATURAL GAS LINE
	COMPRESSED AIR PIPING
	EXISTING COMPRESSED AIR PIPING
	ELBOW, TURNED DOWN AND TURNED UP
	BRANCH - TOP CONNECTION
	BRANCH - BOTTOM CONNECTION
	INTERIOR WALL HYDRANT
	EXTERIOR NON FREEZE WALL HYDRANT
	INTERIOR HOSE BIB
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	HUB DRAIN
	ROOF DRAIN
	SCUPPER DRAIN
	AREA DRAIN
	CATCH BASIN
	TRENCH DRAIN

MECHANICAL DRAWING LIST	
NUMBER	DESCRIPTION
M0.1	MECHANICAL LEGEND, DRAWING LIST AND EQUIPMENT SCHEDULES
M0.2	MECHANICAL EQUIPMENT SCHEDULES
M0.3	CHILLED WATER SYSTEM DIAGRAM - DEMOLITION
M0.4	CHILLED WATER SYSTEM DIAGRAM - NEW LAYOUT
M0.5	SPRINKLER AND COMPRESSED AIR DIAGRAMS
M0.6	MECHANICAL DETAILS - SHEET #1
M0.7	MECHANICAL DETAILS - SHEET #2
M1.1N	PART GROUND FLOOR NORTH - DEMOLITION
M1.1S	PART GROUND FLOOR SOUTH - DEMOLITION
M1.2N	PART MEZZANINE LEVEL NORTH - DEMOLITION
M1.2S	PART MEZZANINE LEVEL SOUTH - DEMOLITION
M1.3N	PART ROOF PLAN NORTH - DEMOLITION
M1.3S	PART ROOF PLAN SOUTH - DEMOLITION
M1.4N	PART GROUND FLOOR NORTH - SPRINKLERS DEMOLITION
M1.4S	PART GROUND FLOOR SOUTH - SPRINKLERS DEMOLITION
M1.5N	PART MEZZANINE LEVEL NORTH - SPRINKLERS DEMOLITION
M1.5S	PART MEZZANINE LEVEL SOUTH - SPRINKLERS DEMOLITION
M2.1N	PART GROUND FLOOR NORTH MECHANICAL - NEW LAYOUT
M2.1S	PART GROUND FLOOR SOUTH MECHANICAL - NEW LAYOUT
M2.2N	PART MEZZANINE LEVEL NORTH MECHANICAL - NEW LAYOUT
M2.2S	PART MEZZANINE LEVEL SOUTH MECHANICAL - NEW LAYOUT
M2.3N	PART 2ND FLOOR NORTH MECHANICAL - NEW LAYOUT
M3.1N	PART GROUND FLOOR NORTH SPRINKLERS NEW LAYOUT
M3.1S	PART GROUND FLOOR SOUTH SPRINKLERS NEW LAYOUT
M3.2N	PART MEZZANINE FLOOR NORTH SPRINKLERS NEW LAYOUT
M3.2S	PART MEZZANINE FLOOR SOUTH SPRINKLERS NEW LAYOUT
M3.3N	PART 2ND FLOOR NORTH SPRINKLERS NEW LAYOUT
M4.2N	PART MEZZANINE FLOOR NORTH HVAC NEW LAYOUT
M4.2S	PART MEZZANINE FLOOR SOUTH HVAC NEW LAYOUT
M4.3N	PART 2ND FLOOR NORTH HVAC NEW LAYOUT
M5.1N	PART ROOF NORTH HVAC NEW LAYOUT
M5.1S	PART ROOF SOUTH HVAC NEW LAYOUT

HVAC (PIPING)	
SYMBOL	DESCRIPTION
	VACUUM (SUCTION) CHILLED WATER RETURN
	EXISTING VACUUM (SUCTION) CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CHILLED WATER RETURN (GRAVITY)
	EXISTING CHILLED WATER SUPPLY
	EXISTING CHILLED WATER RETURN
	EXISTING CHILLED WATER RETURN (GRAVITY)
	GLYCOL SUPPLY
	GLYCOL RETURN
	EXISTING GLYCOL SUPPLY
	EXISTING GLYCOL RETURN
	REFRIGERANT SUCTION
	REFRIGERANT LIQUID
	EXISTING REFRIGERANT SUCTION
	EXISTING REFRIGERANT LIQUID
VALVES & PIPING FITTINGS	
SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER METER
	DOMESTIC COLD WATER METER WITH REMOTE READOUT
	GATE VALVE
	GLOBE VALVE
	PRESSURE REDUCING VALVE (PRV)
	CHECK VALVE
	RELIEF VALVE
	STRAINER
	DRAIN COCK
	SOLENOID VALVE
	BUTTERFLY VALVE
	GRISWOLD VALVE
	BALL VALVE
	TWO-WAY AUTOMATIC CONTROL VALVE
	THREE-WAY AUTOMATIC CONTROL VALVE
	CIRCUIT BALANCING VALVE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	BACKFLOW PREVENTER (DOUBLE CHECK VALVE)
	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
	PLUG VALVE
	PRESSURE GAUGE WITH GAUGE COCK AND SNUBBER
	THERMOMETER WITH THERMOMETER WELL
	THERMOMETER WELL
	AIR VENT - AUTOMATIC
	AIR VENT - MANUAL
	IN-LINE FLOW MEASURING PORT
	PIPE ANCHOR
	PIPE GUIDE
	EXPANSION JOINT COMPENSATOR
	FLEXIBLE PIPE CONNECTOR
	PUMP
	HOSE END
	BLIND FLANGED CONNECTION
	CAPPED CONNECTION
	FLANGED CONNECTION
	UNION
	CONNECT NEW SERVICES TO EXISTING
	STEAM TRAP
	FLOW SWITCH
	FLOAT SWITCH
	TEMPERATURE SENSOR
	PRESSURE SWITCH
	PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	PRESSURE GAUGE WITH GAUGE COCK AND SNUBBER
	THERMOMETER WITH THERMOMETER WELL
	BACKFLOW PREVENTER (B.F.P.) (SUPPLIED WITHOUT SHUT-OFF VALVES)
	BACKFLOW PREVENTER (B.F.P.) (SUPPLIED WITH SHUT-OFF VALVES)
	BACKWATER VALVE (B.W.V.)
	CHECK VALVE
	STOP AND CHECK VALVE
	ELECTRIC PIPE HEATING (HEAT TRACING)
	EYE WASH
	HOSE BIB
	DOUBLE REGULATING VALVE

VENTILATION	
	DUCTWORK (DOUBLE LINE)
	EXISTING DUCTWORK (DOUBLE LINE)
	DUCTWORK (SINGLE LINE)
	EXISTING DUCTWORK (SINGLE LINE)
	ACOUSTICALLY LINED DUCTWORK (DOUBLE LINE)
	ACOUSTICALLY LINED DUCTWORK (SINGLE LINE)
	THERMALLY INSULATED DUCTWORK (DOUBLE LINE)
	THERMALLY INSULATED DUCTWORK (SINGLE LINE)
	FLEXIBLE DUCT
	EXISTING FLEXIBLE DUCT
	SUPPLY DUCT UP (RECTANGULAR)
	ROUND DUCT UP
	RETURN DUCT UP
	SUPPLY DUCT DOWN
	ROUND DUCT DOWN
	RETURN DUCT DOWN
	CHANGE IN DUCT ELEVATION
	DUCT MOUNTED EQUIPMENT WITH FLEXIBLE CONNECTORS
	DUCT SILENCER
	LINEAR OR SLOT DIFFUSER
	SPIN ON FITTING WITH FLEXIBLE DUCT
	EXISTING SPIN ON FITTING WITH FLEXIBLE DUCT
	DOOR GRILLE
	DOOR UNDERCUT
	EXTRACTOR
	MANUAL BALANCING DAMPER
	FIRE DAMPER
	AUTOMATIC (MOTORIZED) DAMPER
	SMOKE (MOTORIZED) DAMPER
	RETURN OR EXHAUST AIR GRILLE
	EXISTING RETURN OR EXHAUST AIR GRILLE
	SQUARE SUPPLY AIR DIFFUSER
	EXISTING SQUARE SUPPLY AIR DIFFUSER
	LIGHT TROFFER DIFFUSER (FOUR SIDED)
	EXISTING LIGHT TROFFER DIFFUSER (FOUR SIDED)
	ROUND SUPPLY AIR DIFFUSER
	EXISTING ROUND SUPPLY AIR DIFFUSER
	LIGHT TROFFER DIFFUSER (DOUBLE SIDED)
	EXISTING LIGHT TROFFER DIFFUSER (DOUBLE SIDED)
	LIGHT TROFFER DIFFUSER (SINGLE SIDED)
	EXISTING LIGHT TROFFER DIFFUSER (SINGLE SIDED)
	SQUARE SUPPLY AIR DIFFUSER C/W BLANK-OFF PLATE
	LINEAR DIFFUSERS WITH INACTIVE PORTIONS BLANKED OFF
	LINEAR RETURN AIR GRILLE
	SIDEWALL GRILLE
	EQUIPMENT
	EXISTING EQUIPMENT
	THERMOSTAT
	EXISTING THERMOSTAT
	EXISTING SERVICES OR EQUIPMENT TO BE REMOVED
	CARBON MONOXIDE
	EXISTING CARBON MONOXIDE

ABBREVIATIONS	
SYMBOL	DESCRIPTION
HE	HEAT EXCHANGER
HUM	HUMIDIFIER
P	PUMP
SL	SILENCER
FL	FILTER
FCU	FAN COIL UNIT
EHC	ELECTRIC DUCT HEATING COIL
UH	UNIT HEATER
IRH	INFRARED HEATER
FFH	FORCED FLOW HEATER
BBH	BASEBOARD HEATER
ET	EXPANSION TANK
AFF	ABOVE FINISHED FLOOR
EX	EXISTING TO REMAIN
ER	DENOTES EXISTING TO BE RELOCATED
N	NEW
R	DENOTES EXISTING TO BE REMOVED
RP	DENOTES EXISTING IN RELOCATED POSITION
CH	CHILLER
RTU	ROOF TOP UNIT
RF	RETURN FAN
SF	SUPPLY FAN
EF	EXHAUST FAN
VAV	VARIABLE VOLUME TERMINAL AIR UNIT
VVT	VARIABLE VOLUME VARIABLE FLOW TERMINAL AIR UNIT
CAV	CONSTANT VOLUME BOX
S/A	SUPPLY AIR DUCTWORK
R/A	RETURN AIR DUCTWORK
E/A	GENERAL EXHAUST AIR DUCTWORK
N.I.C.	NOT IN CONTRACT
CTE	CONNECT TO EXISTING
	EXISTING SERVICES / EQUIPMENT TO BE REMOVED

FIRE PROTECTION	
SYMBOL	DESCRIPTION
	SPRINKLER LINE
	SPRINKLER DRAIN
	EXISTING SPRINKLER LINE
	EXISTING SPRINKLER DRAIN
	PENDANT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	CONCEALED TYPE SPRINKLER HEAD
	EXISTING SPRINKLER HEAD
	EXISTING SPRINKLER HEAD
	SPRINKLER ZONE BORDER LINE
	FIRE DEPARTMENT CONNECTION
	SPRINKLER DRY PIPE VALVE
	SPRINKLER WET PIPE ALARM CHECK VALVE
	TEST DRAIN MODULE
	POST INDICATOR VALVE
	OUTSIDE FIRE HYDRANT WITH VALVE
	FIRE EXTINGUISHER (WITH AND WITHOUT ENCLOSURE)
	FIRE DEPARTMENT TEST CONNECTION
	ALARM PRESSURE SWITCH
	SUPERVISED OS AND Y VALVE
	INDICATIVE TYPE SUPERVISED BUTTERFLY VALVE
	ALARM FLOW SWITCH
EP	EXCESS PRESSURE PUMP
JP	JOCKEY PUMP
SP	SPRINKLER PUMP
GENERAL	
	SECTION No. DRAWING No.
	DETAIL No. DRAWING No. } FOR CONTINUATION, SEE DETAIL No. /DRAWING No.
	REFER TO NOTE "X" ON THIS DRAWING
	TYPE OF GRILLE OR DIFFUSER AIR QUANTITY (L/S) GRILLE / DIFFUSER FACE SIZE OR NECK SIZE

GENERAL NOTES:	
1.	EXTRUSION LINES INSTALLATION: FINAL INSTALLATION, FINAL CONNECTIONS OF SERVICES AND COMMISSIONING OF EXTRUSION LINES WILL BE DONE BY ACCORD TEAM THIS CONTRACTOR TO PROVIDE CAPPED CONNECTIONS OF ALL SERVICES TO EXTRUSION LINES FOR FUTURE FINAL CONNECTIONS BY ACCORD TEAM LOCATIONS OF SERVICES ARE SHOWN DIAGRAMMATICALLY ONLY. EXACT LOCATION OF DRAIN, WATER SUPPLY, COMPRESSED AIR ETC. TO BE COORDINATED WITH ACCORD. 2. EXISTING EQUIPMENT, SERVICES, PIPING LAYOUT AND SIZES ARE SHOWN DIAGRAMMATICAL AND FOR REFERENCE ONLY. THIS CONTRACTOR TO INCLUDE FOR SITE INVESTIGATION TO CONFIRM ALL SERVICES THAT WILL BE AFFECT BY THIS PROJECT. THE 3D SCAN OF THE SPACE IS AVAILABLE TO CONTRACTORS FOR INFORMATION. REFER TO ARCHITECTURAL DRAWINGS WEBLINK 3. FIREPROOFING OF ROOF DECK FOR MORE DETAILS ON EXTEND OF FIREPROOFING AT ROOF DECK REFER TO ARCHITECTURAL DRAWINGS EXISTING SERVICES THAT ARE ATTACHED TO ROOF DECK TO BE REMOVED AND RE-INSTALAED AFTER FIREPROOFING IS COMPLETED. SMALL SERVICES SUCH AS FASTENED SMALL CONDUITS/JUNCTION BOXES, PIPING AND DUCTWORK HANGERS SUSPENDED FROM ROOF DECK CAN REMAIN AND TO BE ENCAPSULATE IN FIREPROOFING. 4. PRIOR TO ANY WORK PROVIDE SITE INVESTIGATION INCLUDING VIDEO SURVEY OF BURIED STORM AND SANITARY DRAINAGE. PROVIDE SKETCH SHOWING ALL BURIED DRAINAGE INCLUDING: PIPING LAYOUT PIPING SIZES PIPING INVERTS SUBMIT FINDINGS TO CONSULTANTS TEAM

SEQUENCING PLAN	
PLANT WILL BE OPERATIONAL DURING CONSTRUCTION. THIS CONTRACTOR TO COORDINATE WITH THE CLIENT FOR ANY SHUT DOWN IN ADVANCE. REVISIONS TO EXISTING SERVICES THAT WILL RESULT IN INTERRUPTION OF PRODUCTION MUST BE PERFORMED AFTER HOURS OR ON WEEKENDS. THE FOLLOWING IS PROPOSED SEQUENCING PLAN FOR CHILLED WATER SYSTEM: · PROVISION OF CHILLED WATER AS REQUIRED FOR OWNER'S PRODUCTION OPERATIONS SHALL BE MAINTAINED AT ALL TIMES DURING THE WORK · EXISTING SOTON CHILLER TO BE RELOCATED AS NECESSARY TO CARRY OUT WORK, EXACT LOCATION TO BE COORDINATED ON SITE WITH OWNER. AT CONCLUSION OF PROJECT, SOTON CHILLER SHALL REMAIN ON SITE FOR BACKUP/REDUNDANCY · EXISTING 70TON CHILLER AND ASSOCIATED PUMPS ARE LOCATED ON/BELOW EXISTING MEZZANINE SCHEDULED FOR DEMOLITION. WORK TO BE SEQUENCED AS REQUIRED TO ALLOW 70TON CHILLER TO SUPPORT OWNER'S PRODUCTION OPERATIONS UNTIL SWITCHOVER TO NEW SYSTEM · EXISTING BELOW SLAB WATER CHAMBER TO REMAIN FUNCTIONAL UNTIL NEW BELOW SLAB WATER CHAMBER IS CONSTRUCTED/COMMISSIONED. COORDINATE UNDERSLAB PIPING BETWEEN EXISTING WATER CHAMBER AND NEW AS REQUIRED. · EXISTING ROOFTOP/OUTDOOR CONDENSER IS REQUIRED TO REMAIN OPERATIONAL UNTIL SWITCHOVER TO NEW CONDENSER. CONTRACTOR TO ALLOW FOR APPROPRIATE WORKING CLEARANCES AS REQUIRED WHEN CARRYING OUT 2ND FLOOR WORK. · ONCE NEW SYSTEM HAS BEEN COMMISSIONED, DEMOUSH ALL REDUNDANT EQUIPMENT/INFRASTRUCTURE	

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PROJECT CODE:	SCALE:
22_31	N.T.S.
DATE:	STATUS:
March 4, 2024	Issued for Tender

Mechanical Legend,
Drawing List and Equipment
Schedules

Project
North

drawing number

M0.1

NEW CHILLER SCHEDULE														
REF. LETTER	DESIGNATION	MANUFACTURE	MODEL	TONES	GPM	Δ P (FT)	EWT (°F)	LWT (°F)	PROP. GLYCOL MIXT.	MCA	MOCP	VOLTAGE V	VFD	REMARKS
CH-1	ROOFTOP PACKAGE AIR COOLED	REFPLUS	ONZ-2002-1H1-BT	100	270	20	50	40	40%	237	250	600-3-60	YES	R410A REFRIGERANT, 100 TON CAPACITY, -4°F LOW AMBIENT OPERATION, .76 KW/TON, COMPLETE INTERNAL CONTROLS, 4" INTAKE, PRESSURE SENSORS, REMOTE SET POINT CONTROLLER
* MOUNTED ON STRUCTURAL 450mm I-BEAMS, WITH 6" HIGH, 2" DEFLECTION SPRING ISOLATORS, ONE POINT POWER SUPPLY, 10,500 LBS OPERATING WEIGHT SST 30°F, R-410A REFRIGERANT, THERMOSTAT, FLOW SWITCH, 2xLIQUID SOLENOID VALVES, 2 PORTS FOR HOT GAS INJECTION, 2-SPORLAN EEV, 2xKE2 TEMPS+VALVE, INSULATED (COLD SURFACES), UNIT CERTIFIED FOR PROCESS CHILLING. OIL SEPARATION, FAN CYCLING, CONTROLS, HOT GAS BYPASS KIT, 25 TON EACH CIRCUIT, DISCONNECT, FLOODING VALVE, LOW AMBIENT KIT, OIL SEPARATOR, PRESSURE CONTROLS, SUCTION ACCUMULATOR, SUCTION FILTER.														

HEAT EXCHANGER																			
TAG	DESIGNATION	LOC'N	MODEL	MANUFACTUE	WARM SIDE (TUBE)					COLD SIDE (SHELL)					CONSTRUCTION DATA				REMARKS
					FLUID	FLOW GPM	Δ T °F	LWT "F"	PROPS PSIG	FLUID	FLOW GPM	Δ T °C	LWT "C"	PROPS PSIG	TYPE		DIAM. IN.	THICK. IN.	
HE-1	GLYCOL COOLING	2nd FLOOR MECH. RM	QNW-2011-410	BELL & GOSSETT	WATER	270	62	50	5	40% PROPYLENE GLYCOL	280	42	58	5	INLET & OUTLET (TUBE SIDE) 6" INLET & OUTLET (SHELL SIDE) 10" SHELL & TUBE HEAT EXCHANGER 153" LONG X 24" DIAM.		150	INDOOR HEAT EXCHANGER, MOUNTED ON SADDLES, FOULING 0.025, 320 TUBES, 20 BWG GAUGE, TUBE MATERIAL COPPER 3/4", STEEL SHELL, CAST IRON HEAD, ELASTOGRAPH GASKETS, 710 SQ.FT. SURFACE, 10% EXCESS AREA, 3/4" VENT	

ROOF TOP UNIT												
REF. LETTER	MANUFACTURE	MODEL	CAPACITY CFM	MIN. O.A. CFM	E.S.P. INCH	COOLING TON	GAS HEATING 2 STAGE MBH	POWER	MCA	MOCP	WEIGHT LB	REMARKS
RTU-1	CARRIER	ABGCFJ06	2,000	300	0.6	4	120	575-3-60	14	20	800	PACKAGED RTU, GAS HEAT, ELEC. COOL, MERV 8 FILTERS, 24" ROOF CURB, DOWN DISCHARGE, FREE COOLING ECONOMIZER, POWER EXHAUST, DISCONNECT, PROGRAMMABLE THERMOSTAT

FAN SCHEDULE															REMARKS				
REF. LETTER	AREA SERVED / DESIGNATION	MANUFACTURE	MODEL	CAPACITY CFM	E.S.P. INCH	ECLECTIC		DRIVE	FAN RPM	VFD									
						V-PH-HZ	HP												
EF-1	WASHROOM	GREENHECK	SP-A-110	110	0.10	120-1-60	6A				INLINE CEILING FAN, VIBRATION ISOLATOR, SPEED CONTROLLER TO RUN AT LOW SPEED FOR ROOM VENTILATION								
EF-2	WASHROOM	GREENHECK	SP-A-110	110	0.10	120-1-60	6A				INLINE CEILING FAN, VIBRATION ISOLATOR, SPEED CONTROLLER TO RUN AT LOW SPEED FOR ROOM VENTILATION								
EF-3	LUNCH ROOM	GREENHECK	G-95-G	500	0.25	120-1-60	1/12	DIRECT			SEE NOTE#2								
EF-4	GENERAL EXHAUST (2nd FLOOR PLANT)	GREENHECK	G-160-VG	2500	0.26	120-1-60	1.0	DIRECT	911	SEE NOTES	SEE NOTE#1								
EF-5	GENERAL EXHAUST (2nd FLOOR PLANT)	GREENHECK	G-160-VG	2500	0.26	120-1-60	1.0	DIRECT	911	SEE NOTES	SEE NOTE#1								
EF-6	GENERAL EXHAUST (2nd FLOOR PLANT)	GREENHECK	G-160-VG	2500	0.26	120-1-60	1.0	DIRECT	911	SEE NOTES	SEE NOTE#1								
EF-7	GENERAL EXHAUST (2nd FLOOR PLANT)	GREENHECK	G-160-VG	2500	0.26	120-1-60	1.0	DIRECT	911	SEE NOTES	SEE NOTE#1								
EF-8	ELECTRICAL ROOM EXHAUST	GREENHECK	SG-100-VG	960	0.4	120-1-60	1/4	DIRECT	1417	SEE NOTES	INLINE CEILING FAN, VIBRATION ISOLATOR, SPEED CONTROLLER AT FAN FOR BALANCING, TO BE CONTROLLED BY ROOM THERMOSTAT								

NOTE#1:
DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN, PROVIDE 600MM ROOF CURB. FAN TO BE PROVIDED WITH REMOTE WALL MOUNTED SPEED CONTROLLER. FAN TO BE CONTROLLED BY SPACE THERMOSTAT. PROVIDE DISCONNECT SWITCH AT THE FAN.

NOTE#2:
ROOF DOME FAN, DIRECT DRIVE, 600MM HIGH ROOF CURB TO SUITE FAN BASE, FAN ON/OFF SWITCH, IN JANITOR ROOM ON TIMER CONTROL.

PUMP																
No.	DESIGNATION	LOC'N	FLUID	MODEL	MANUFACTURE	PERFORMANCE DATA					CONSTRUCTION DATA		ELECTRIC DATA		REMARKS	
						CAPACITY L/S (GPM)	TOTAL DYN. HEAD KPA (FT)	R.P.M.	SUCTION HEAD KPA (FT)	WORK TEMP. C(°F)	TYPE	V-PH-HZ	MOTOR HP	VFD		
P-11	CHILLER WATER RETURN PUMP	GROUND FL. MECH. ROOM	WATER	83452-B 3"X3"	GORMAN	13.9 (220)	209 (70)	3600	-29.9 (-10)	16°C (62°F)	BASE MOUNTED	575-3-60	7.5	YES	MINUS 10FT SUCTION HEAD (LIFT FROM TANK), SELF PRIMING, 4 VANE 150MM# IMPELLER, STANDARD, STRAINER FEATURES, PROVIDE LEAD/LAG CONTROL PANEL	
P-12	CHILLER WATER RETURN PUMP	GROUND FL. MECH. ROOM	WATER	83452-B 3"X3"	GORMAN	13.9 (220)	209 (70)	3600	-29.9 (-10)	16°C (62°F)	BASE MOUNTED	575-3-60	7.5	YES		
P-13	CHILLER WATER SUPPLY PUMP	GROUND FL. MECH. ROOM	WATER	83452-B 3"X3"	GORMAN	13.9 (220)	209 (70)	3600	-29.9 (-10)	10°C (50°F)	BASE MOUNTED	575-3-60	7.5	YES	MINUS 10FT SUCTION HEAD (LIFT FROM TANK), SELF PRIMING, 4 VANE 150MM# IMPELLER, STANDARD, STRAINER	
P-14	CHILLER WATER SUPPLY PUMP	GROUND FL. MECH. ROOM	WATER	83452-B 3"X3"	GORMAN	13.9 (220)	209 (70)	3600	-29.9 (-10)	10°C (50°F)	BASE MOUNTED	575-3-60	7.5	YES	FEATURES, PROVIDE LEAD/LAG CONTROL PANEL	
P-15	CHILLED GLYCOL SUPPLY PUMP	2ND FL. MECH. ROOM	GLYCOL	4x4x11B	BELL & GOSSETT	17 (270)	150 (50)	1200		15°C (59°F)	SPLIT COUPLED	575-3-60	7.5	YES	40%XXX PROPYLENE GLYCOL MIXTURE, 100# IN AND OUT PIPE. PROVIDE LEAD/LAG CONTROL PANEL, STRAINER FEATURES, PROVIDE LEAD/LAG CONTROL PANEL,	
P-16	CHILLED GLYCOL SUPPLY PUMP	2ND FL. MECH. ROOM	GLYCOL	4x4x11B	BELL & GOSSETT	17 (270)	150 (50)	1200		15°C (59°F)	SPLIT COUPLED	575-3-60	7.5	YES	E-BOSC, 4" IN/OUT	
P-17	VACUUM PUMP	2ND FL. MECH. ROOM	WATER	PFS TERSE	TRAWANI	1.9 (30)	269 (90)	1750	-26 (-8.4)	15°C (59°F)		575-3-60	10	YES	FLUID WATER/VACUUM PUMP, TRAWANI PFS TRSE, 100-550/C/GH, 160 CFM Ø26"6 VAC., SINGLE STAGE, LIQUID RING, ACCESSORIES, SEPARATOR TANK, NON RETURN VALVE,	
P-18	VACUUM PUMP	2ND FL. MECH. ROOM	WATER	PFS TERSE	TRAWANI	1.9 (30)	269 (90)	1750	-26 (-8.4)	15°C (59°F)		575-3-60	10	YES	RELIEF 4-PRESSURE GAUGES, TEMP. GAUGES (2), SERVICE LINES, STARINER, SOLENOID VALVES, FLOW REGULATING VALVE, ON A SKID WITH ALL PIPING & CONTROLS BUILT-IN	
P-19	ELEVATOR SUMP PUMP	GROUND FLOOR NORTH	WATER	BP314/324	BARNES	0.63 (10)	75 (25)	1750		18.3°C (65°F)	CAST IRON SUBMERSIBLE	120-1-60	1/3	NO		

NOTES: ALL PUMPS TO BE PROVIDED WITH INLET SUCTION DIFFUSER, CHECK VALVE ON DISCHARGE SIDE, SHUT OFF VALVES, PRESSURE GAUGES. FOR PUMPS P-11 TO P-18: ONE PUMP ON/ONE STANDBY, LEAD/LAG PUMP CONTROLLERS

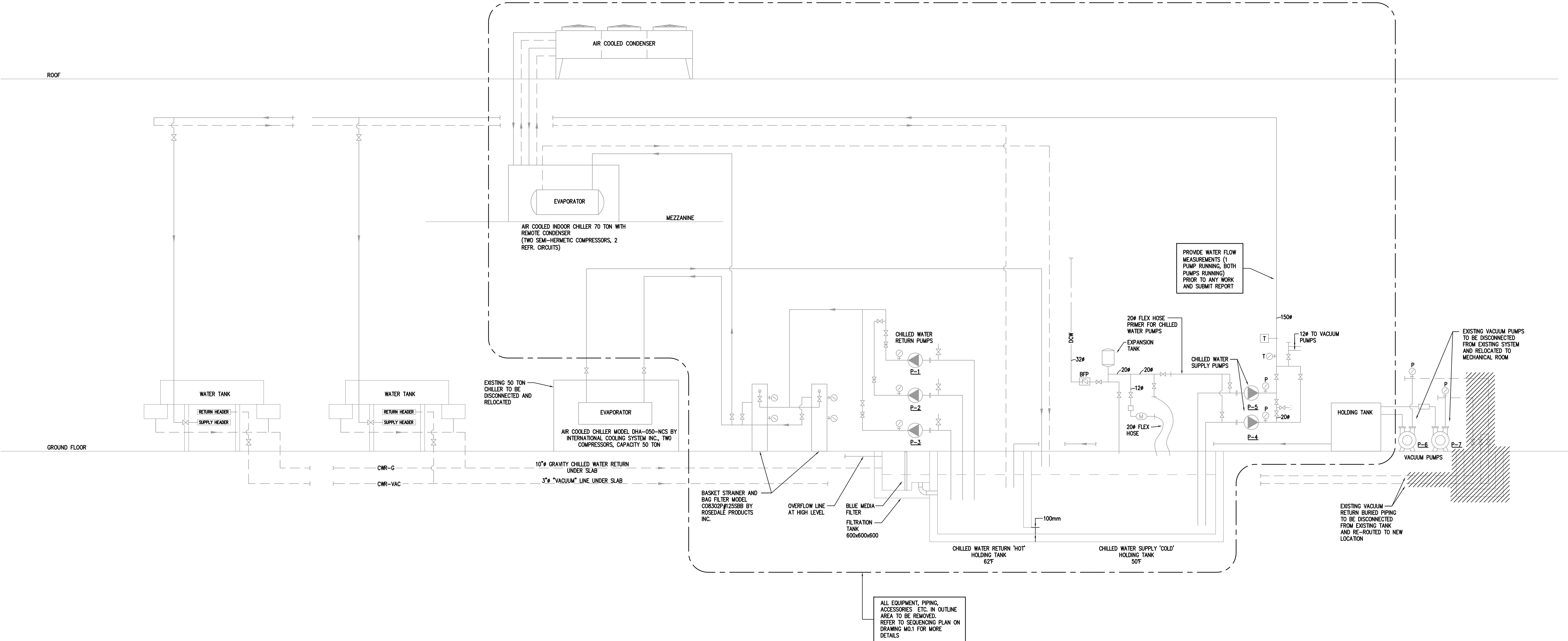
UNIT HEATER															REMARKS
TAG	DESIGNATION	MANUFACTURE	MODEL	PERFORMANCE DATA		SERVICE CONNECTIONS		ELECTRICAL DATA							
				HEATING/HEATING INPUT MBH	OUTPUT MBH	AIR L/S	GAS MM	VENT MM	V-PH-HZ	WATTS	FLA	MOP			
UH-1	GAS UNIT HEATER	MODINE	HD 60 POWER VENTED	60	49.8	460	12	100	120-1-60	155	2.4	15	GAS UNIT HEATER, 83% EFF, HEATER TO BE PROVIDED WITH LOUVRES, WALL MOUNTED REMOTE PROGRAMMABLE THERMOSTAT, 24V (OR AS PER MANUFACTURE) CONTROLS SUPPORTS & HANGERS, GAS FLUE THRU ROOF WITH WEATHER CAP		
UH-2	GAS UNIT HEATER	MODINE	HD 60 POWER VENTED	60	49.8	460	12	100	120-1-60	155	2.4	15	GAS UNIT HEATER, 83% EFF, HEATER TO BE PROVIDED WITH LOUVRES, WALL MOUNTED REMOTE PROGRAMMABLE THERMOSTAT, 24V (OR AS PER MANUFACTURE) CONTROLS SUPPORTS & HANGERS, GAS FLUE THRU ROOF WITH WEATHER CAP		
UH-3	GAS UNIT HEATER	MODINE	HD 60 POWER VENTED	60	49.8	460	12	100	120-1-60	155	2.4	15	GAS UNIT HEATER, 83% EFF, HEATER TO BE PROVIDED WITH LOUVRES, WALL MOUNTED REMOTE PROGRAMMABLE THERMOSTAT, 24V (OR AS PER MANUFACTURE) CONTROLS SUPPORTS & HANGERS, GAS FLUE THRU ROOF WITH WEATHER CAP		
UH-4	GAS UNIT HEATER	MODINE	HD 60 POWER VENTED	60	49.8	460	12	100	120-1-60	155	2.4	15	GAS UNIT HEATER, 83% EFF, HEATER TO BE PROVIDED WITH LOUVRES, WALL MOUNTED REMOTE PROGRAMMABLE THERMOSTAT, 24V (OR AS PER MANUFACTURE) CONTROLS SUPPORTS & HANGERS, GAS FLUE THRU ROOF WITH WEATHER CAP		
UH-5	GAS UNIT HEATER	MODINE	HD 60 POWER VENTED	60	49.8	460	12	100	120-1-60	155	2.4	15	GAS UNIT HEATER, 83% EFF, HEATER TO BE PROVIDED WITH LOUVRES, WALL MOUNTED REMOTE PROGRAMMABLE THERMOSTAT, 24V (OR AS PER MANUFACTURE) CONTROLS SUPPORTS & HANGERS, GAS FLUE THRU ROOF WITH WEATHER CAP		
UH-6 TO UH-10	GAS UNIT HEATER	MODINE	HD 60 POWER VENTED	60	49.8	460	12	100	120-1-60	155	2.4	15	GAS UNIT HEATER WITH POWER EXHAUST, 83% EFF, HEATER TO BE PROVIDED WITH LOUVRES, WALL MOUNTED REMOTE PROGRAMMABLE THERMOSTAT, 24V (OR AS PER MANUFACTURE) CONTROLS SUPPORTS & HANGERS, VENT THRU WALL WITH WALL WHEATEAR CAP		
NOTES: PROVIDE POWER VENTING TO SUIT DISTANCE AND COMPLETE KIT WITH HANGERS, FLUES, CONNECTION & CONTROLS. MOUNTING HEIGHT (TO BE DETERMINE ON SITE BUT MIN. 10' AFF															

INFRARED GAS HEATER														
REF. LETTER	MANUFACTURE	MODEL	HEATING CAPACITY MBH	VOLTAGE V/A	WEIGHT lbs	REMARKS								
IRH-1 TO IRH-3	SPACE RAY	CB30	30	115/2,6	160	UNITS C/W PROGRAMMABLE THERMOSTAT, 4" COMBUSTION & VENT PIPES KITS, S.S. STEEL REFLECTOR & SUPPORT BACKETS, HANGER KIT, END CAPS, GAS VALVE, TRANSFORMATION & SWITCHES, 4" FLUE & COMBUSTION AIR PIPES.								
*PROVIDE POWER VENTING TO SUIT DISTANCES AND COMPLETE KIT WITH HANGERS, FLUES, CONNECTION & CONTROLS. MOUNTING HEIGHT (TO BE DETERMINE ON SITE BUT MIN. 10' AFF)														

AIR COOLED CONDENSING UNITS												
NO.	AREA SERVED	MAKER	MODEL	TYPE	COOLING CAPACITY (TON)	HEATING CAPACITY @-4F (BTU)	REFRIGERANT	MOP AMP	MCA AMP	VOLTAGE V-PH-HZ	COMMENTS	
CC-1	ELEVATOR MACHINE ROOM	DAIKIN	RXL12QMMJU9	OUTDOOR AIR COOLED HEAT PUMP	1.0	9,000	R-410A	15	13	208-1-60	C/W INDOOR AC-1 UNIT. REFRIGERANT PIPING, T"-STAT, WIRING, CONTROLS. CONDENSING UNIT TO BE INSTALLED ON NON-ROOF PENETRATING TYPE OF SUPPORT SUITABLE FOR UNIT SIZE AND WEIGHT (MODEL QSMS1801 BY QUICK-SLING OR EQUAL). SPECIFIED UNIT WEIGHT IS APPROX. 50 KG, DIMENSIONS 560mm(H) x 760mm(W) x 300mm(D). UNIT TO BE C/W ULTRA LOW AMBIENT KIT FOR -40F, WIND BAFFLE. INDOOR UNIT POWERED BY OUTDOOR UNIT. PROVIDE SNOW HOOD AND DRAIN PAN HEATER. HEATING RANGE DOWN TO -13F	

AIR CONDITIONING UNIT SCHEDULE														
NO.	AREA SERVED	MAKER	MODEL	TYPE	COOLING CAPACITY			MAX. HEAT CAPACITY kW(MBH)	MAX. AIR FLOW L/S (CFM)	ELECTRICAL DATA			REMARKS	
					SENSIBLE kW(MBH)	TOTAL kW(MBH)	TOTAL TON			FUSE AMP	MCA V-PH-HZ	VOLTAGE V-PH-HZ		
AC-1	ELEVATOR MACH. ROOM	DAIKIN	FTX12NMJU	INDOOR WALL MOUNTED TYPE	2.6 (8.98)	3.8 (13)	1.0	2.63 (9)	204 (434)	SEE NOTE #1	208-1-60			

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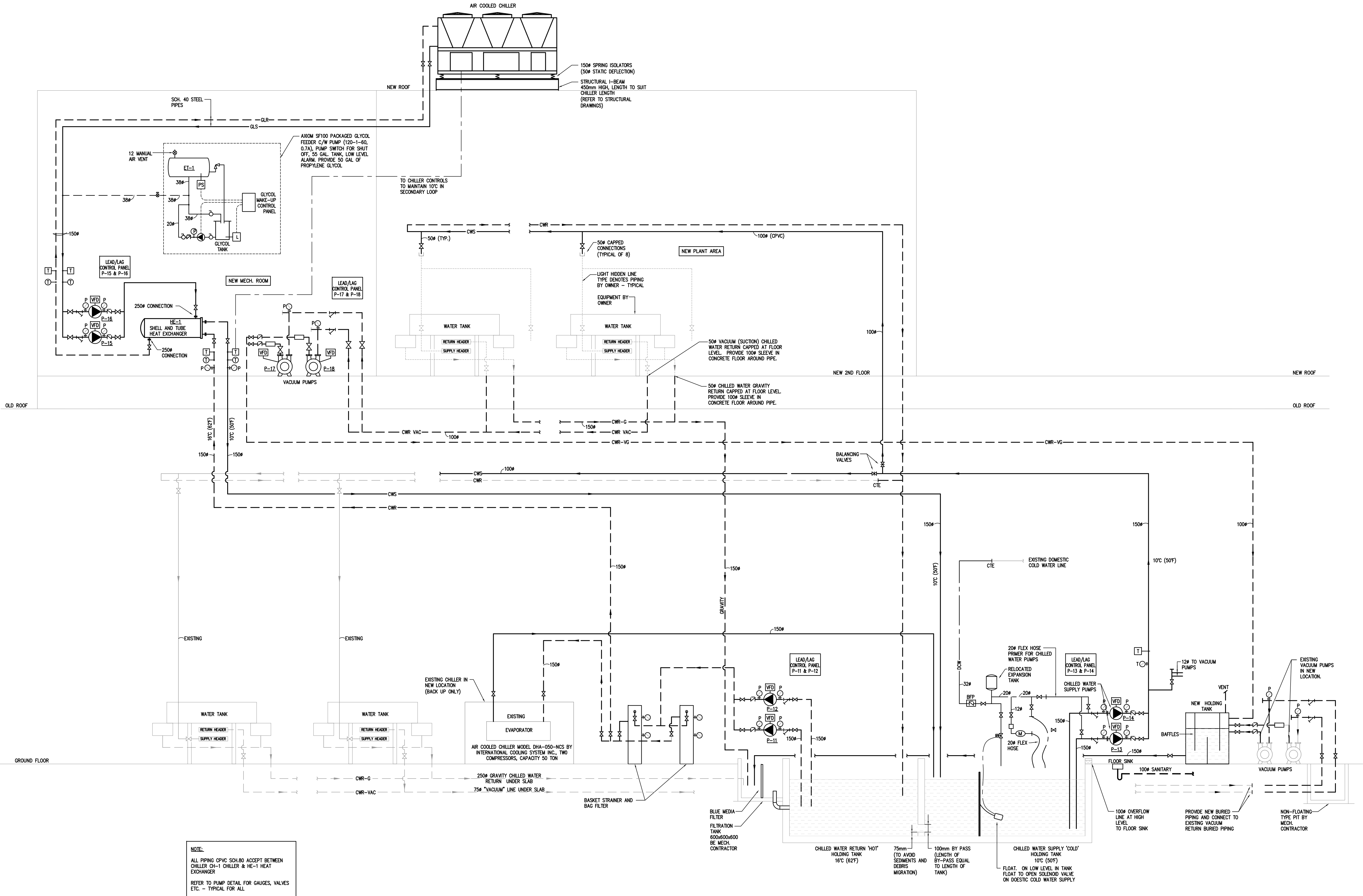
56 Edlican Drive, Concord, ON

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22_31	N.T.S.
DATE:	STATUS:
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Chilled Water System
Diagram System
Demolition



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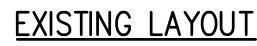
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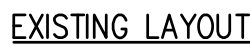
PROJECT CODE: 22_31
SCALE: N.T.S.
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Chilled Water System
Diagram
New Layout





10.5 SCALE: N.T.S.



10.5 SCALE: N.T.S.

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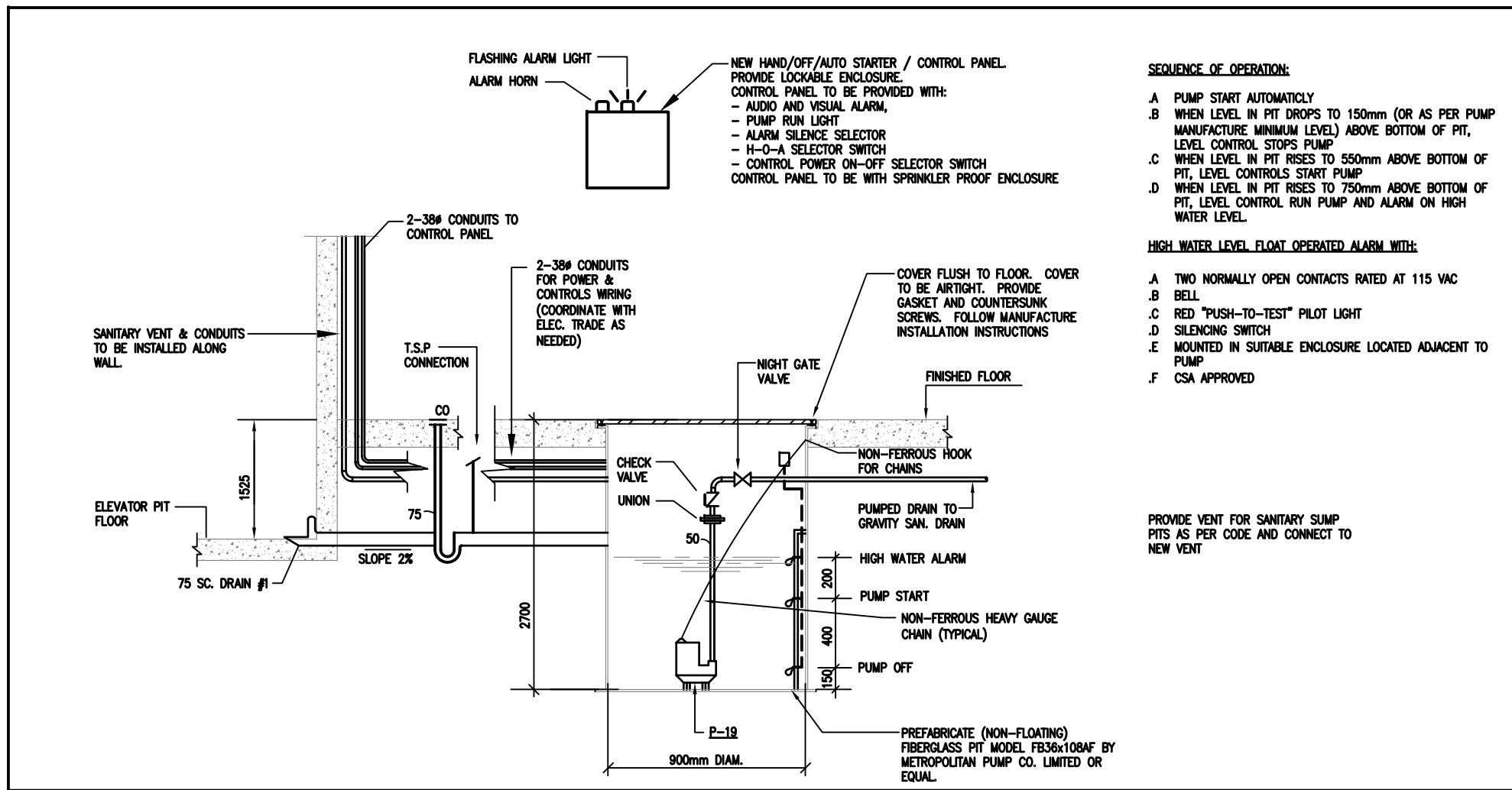
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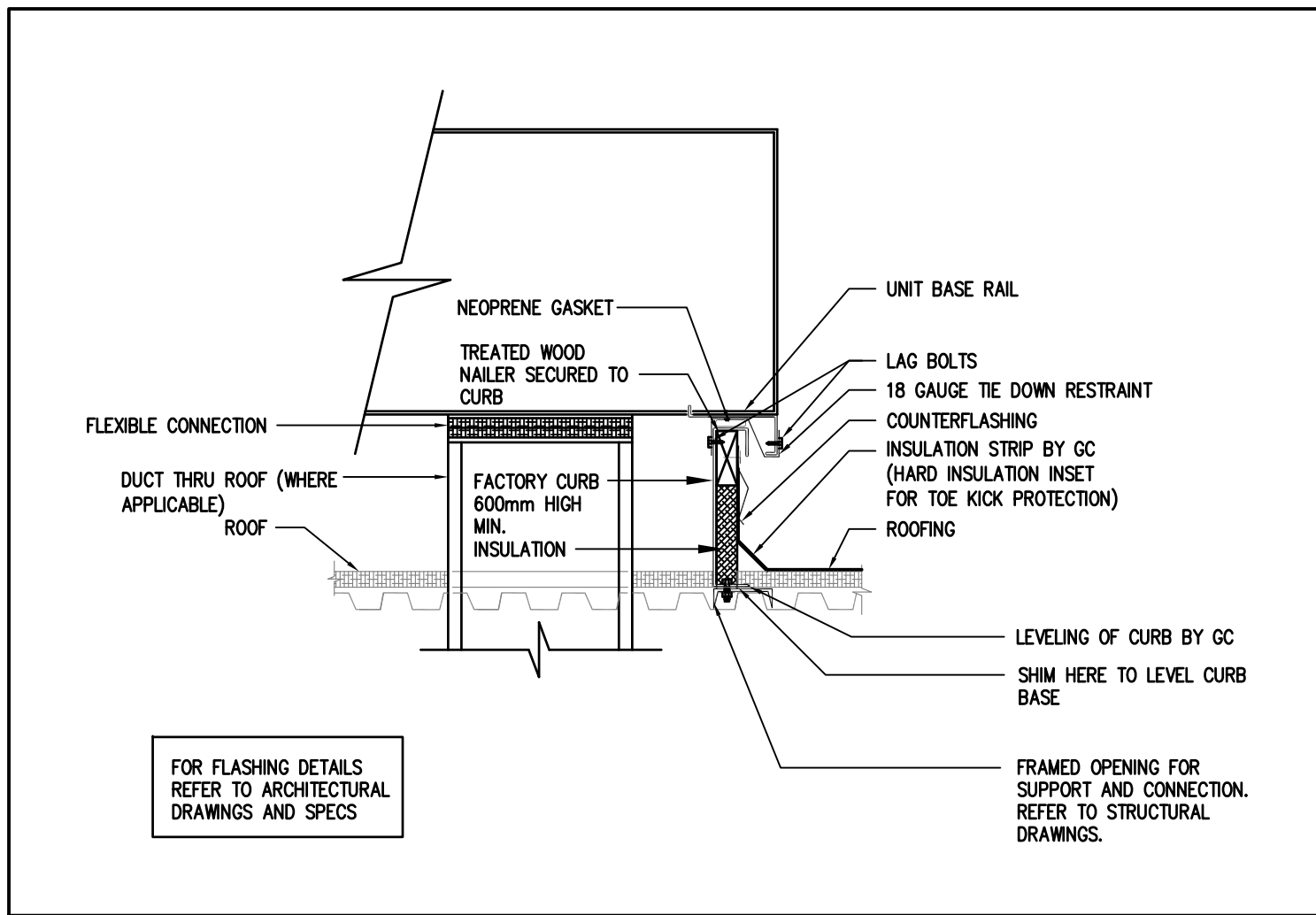
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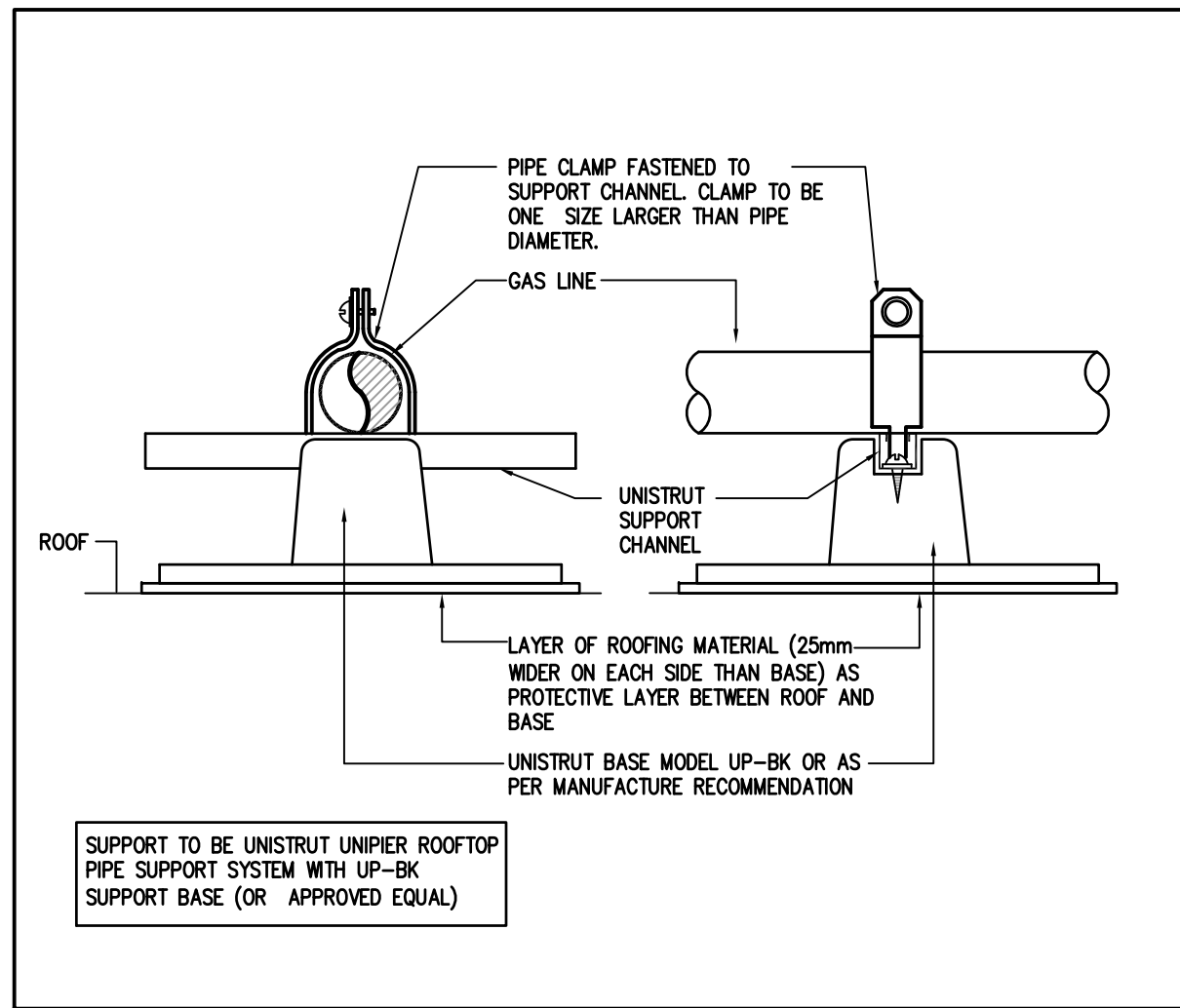
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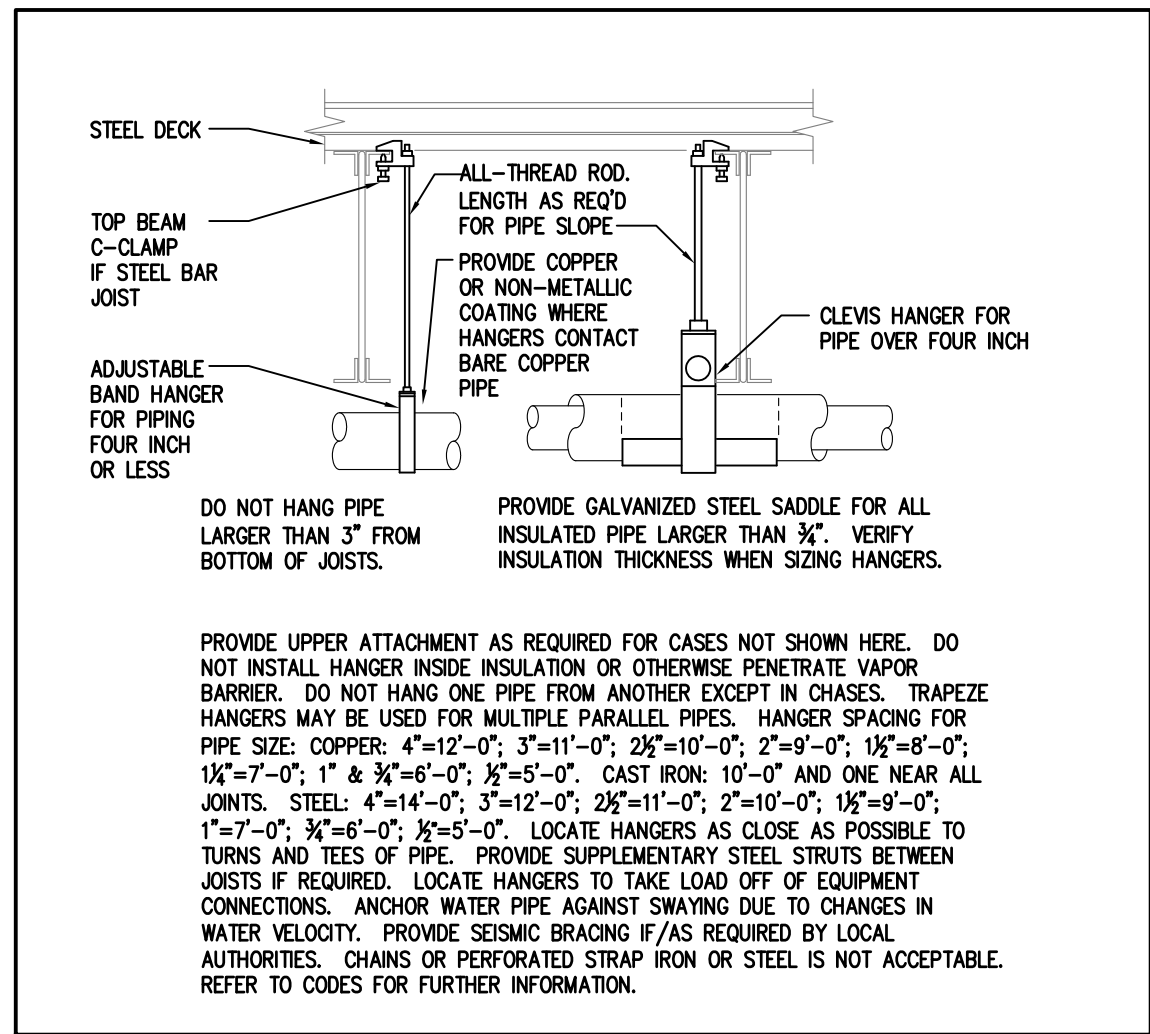
1 DETAIL OF ELEVATOR SUMP
SCALE: N.T.S.



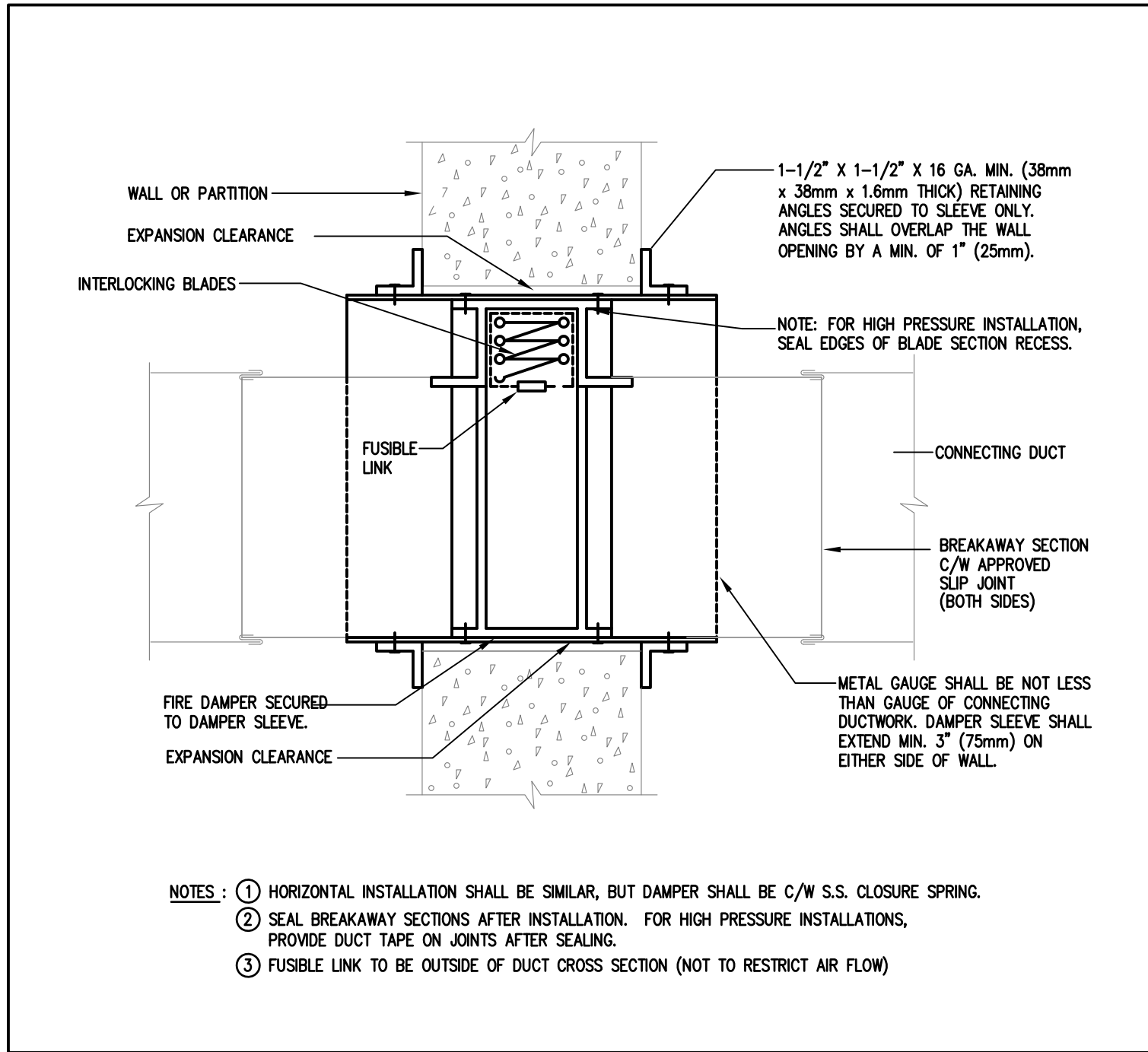
2 ROOFTOP UNIT CURB ASSEMBLY DETAIL
SCALE: N.T.S.



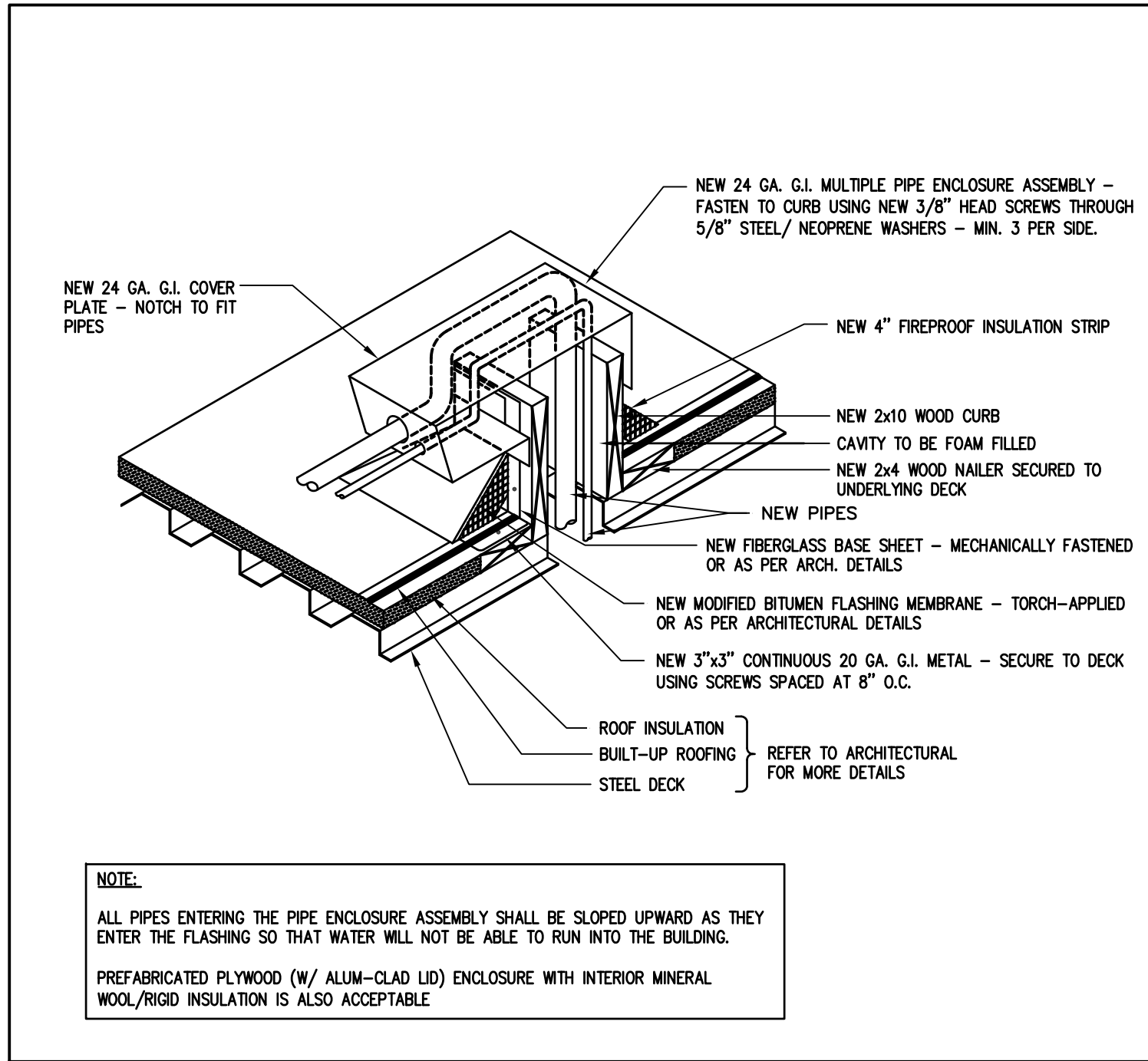
3 GAS PIPING SUPPORT ON ROOF
SCALE: N.T.S.



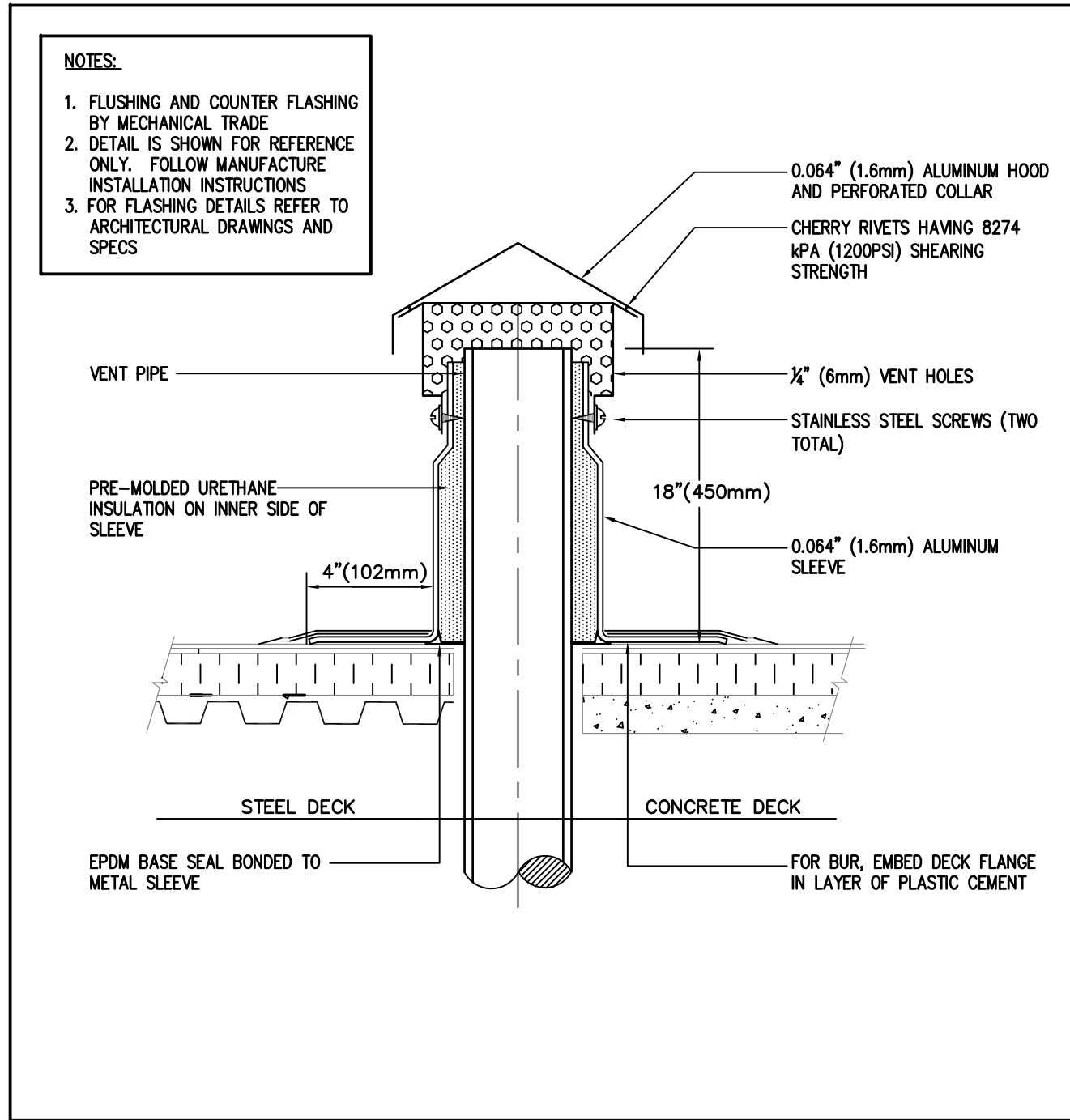
4 PIPE HANGERS
SCALE: N.T.S.



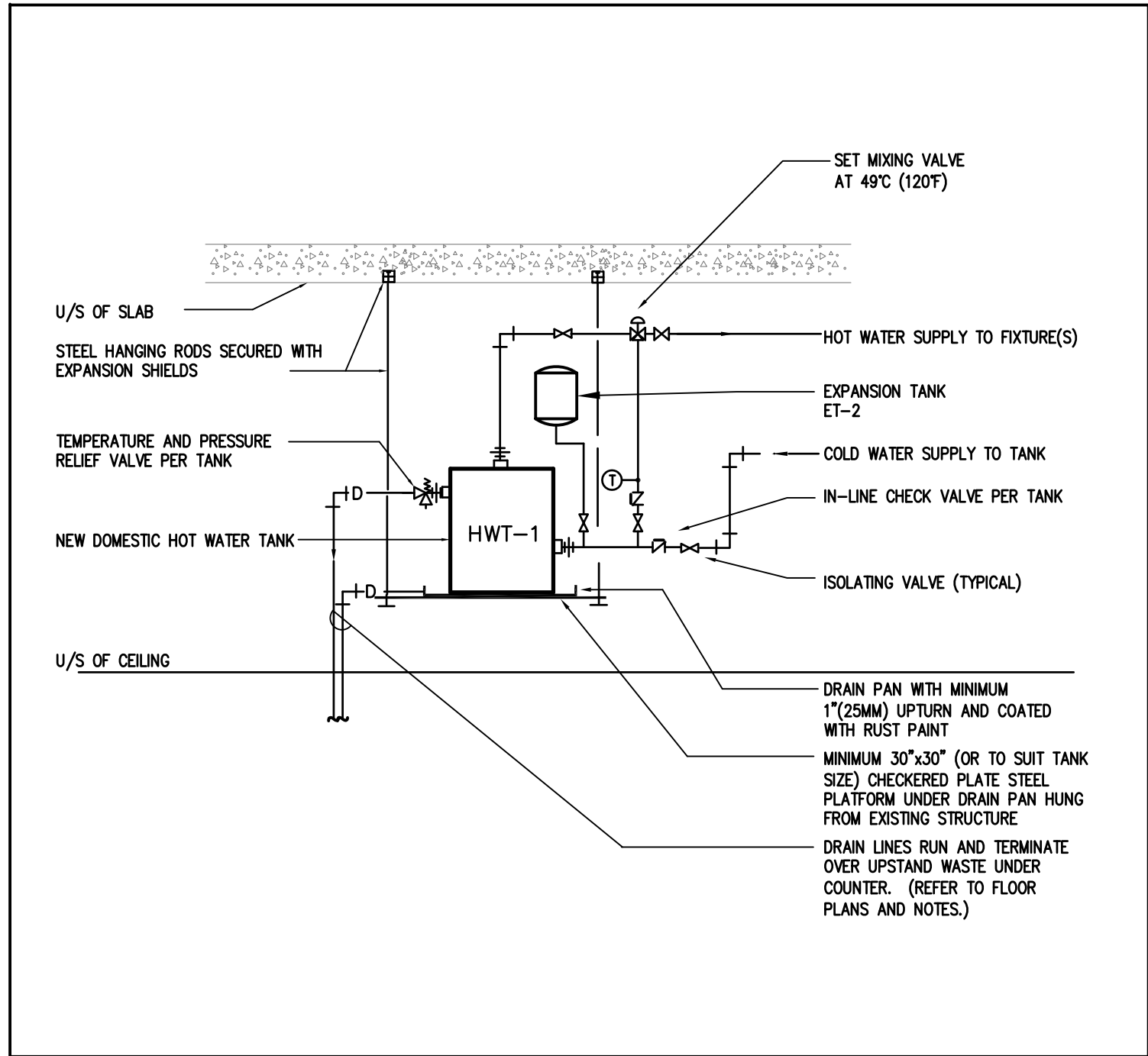
5 TYPICAL DETAIL OF VERTICAL MOUNTED FIRE DAMPER INSTALLATION
SCALE: N.T.S.



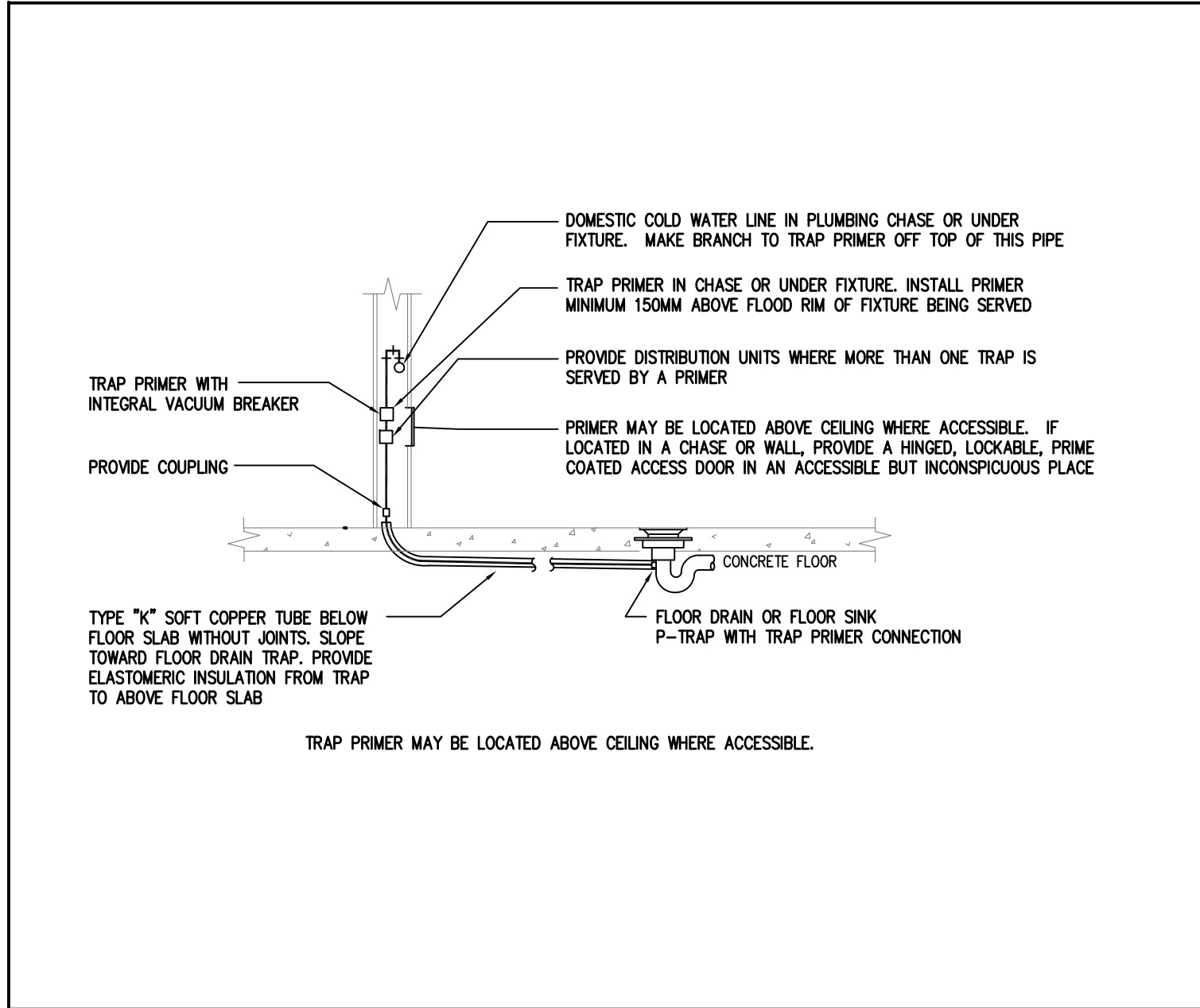
6 PIPE THROUGH ROOF DETAIL
SCALE: N.T.S.



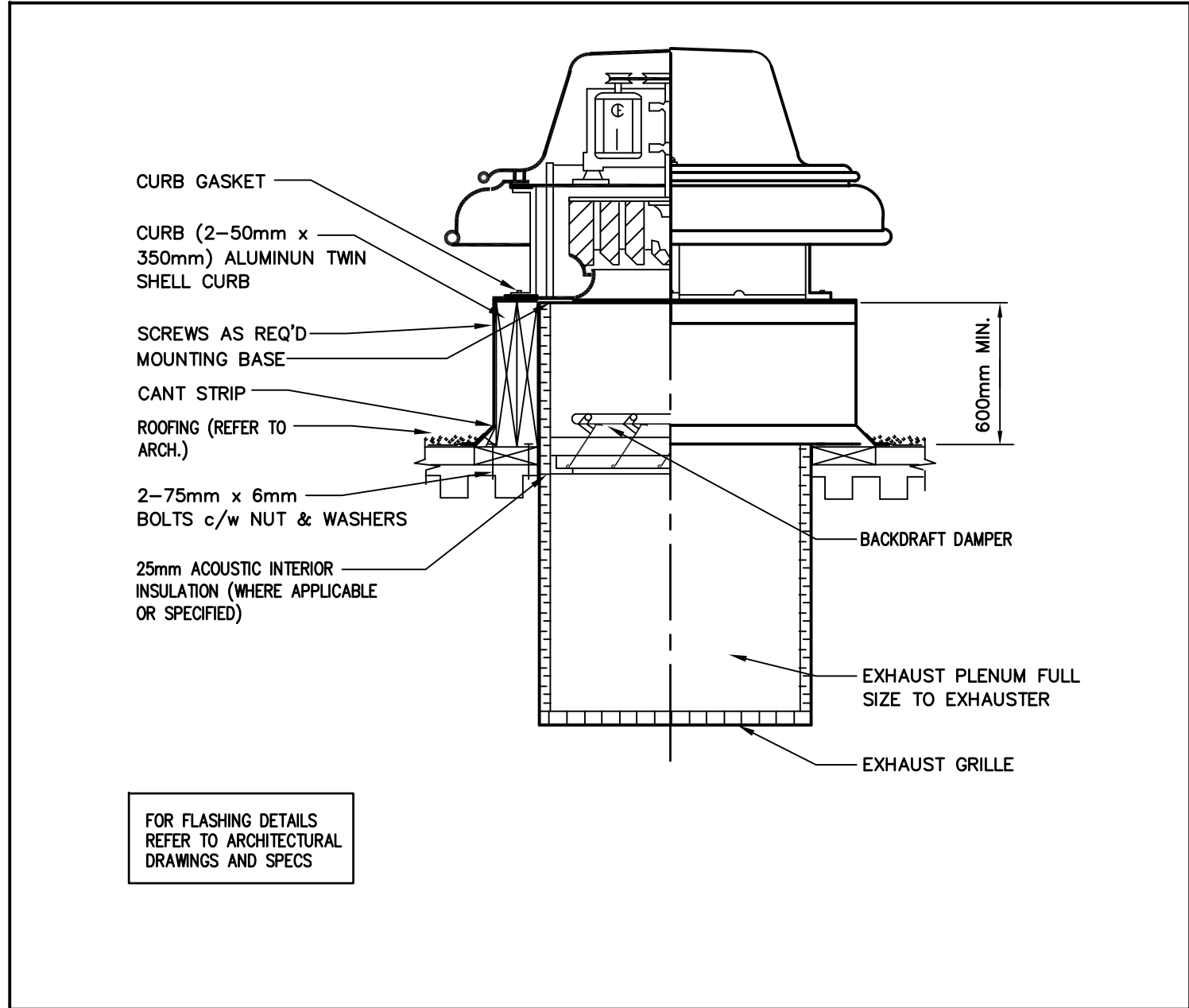
7 VANDAL PROOF VENT THRU ROOF DETAIL
SCALE: N.T.S.



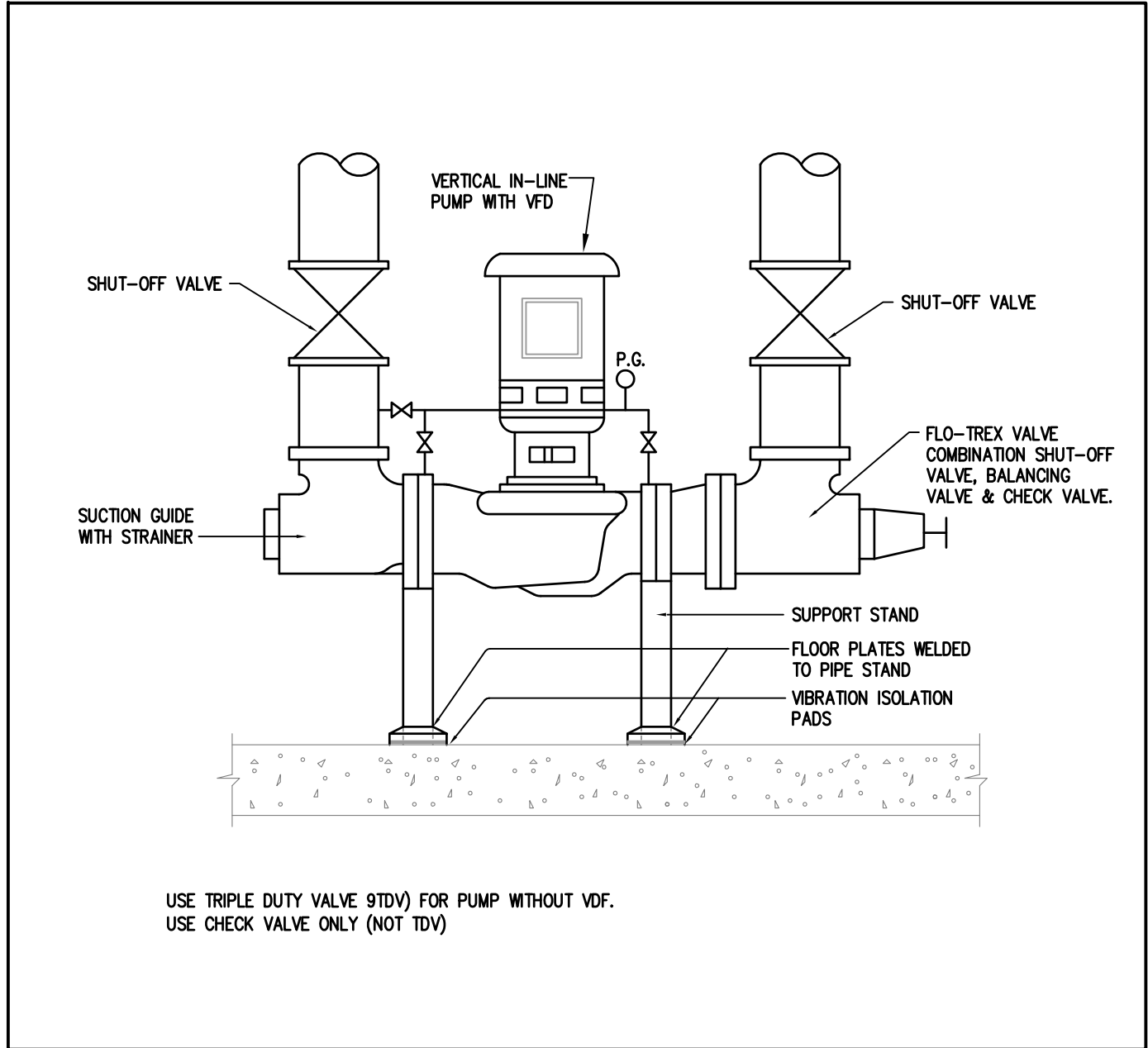
8 DHWT INSTALLATION DETAIL WITHIN CEILING SPACE
SCALE: N.T.S.



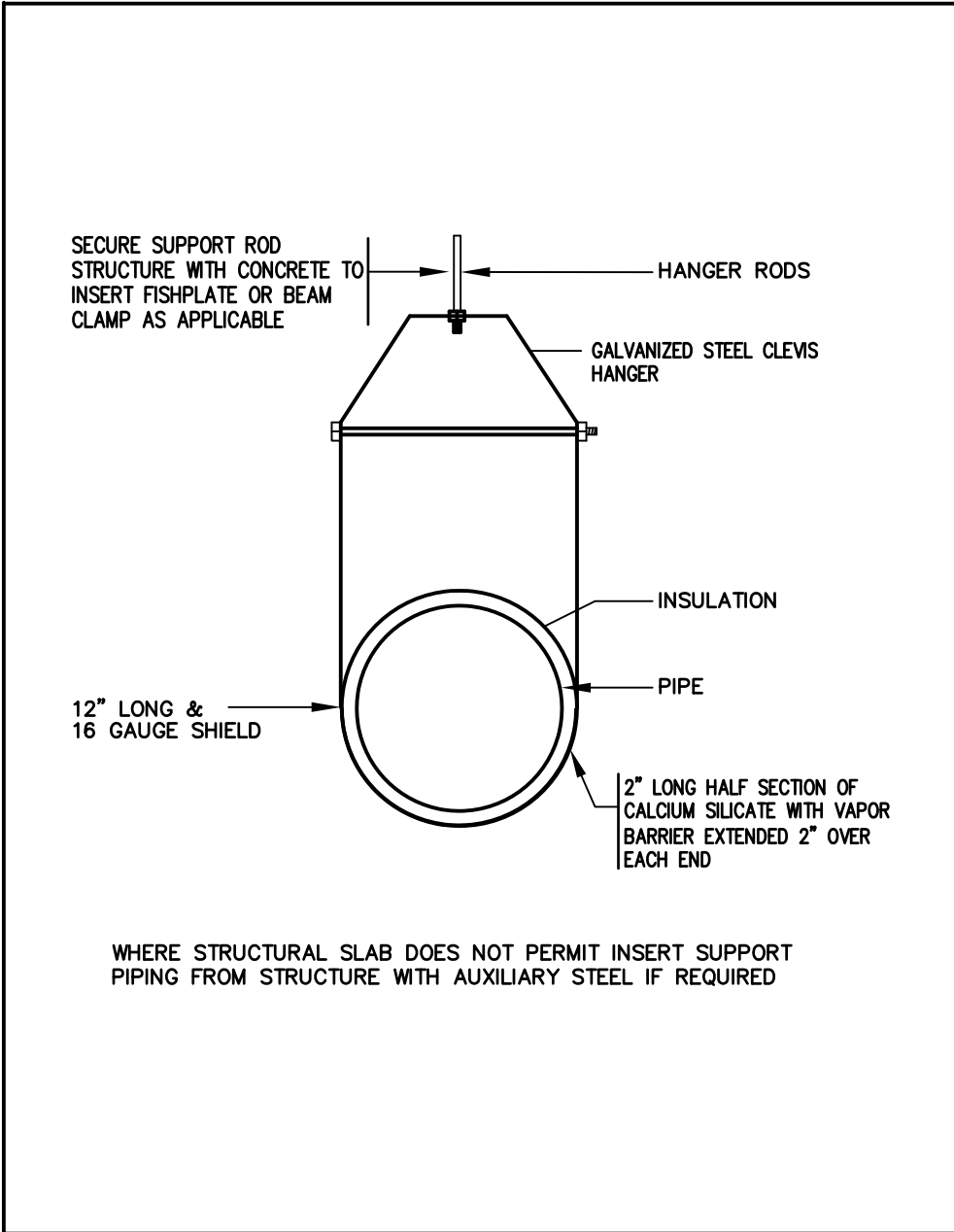
9 FLOOR DRAIN WITH PRIMER
SCALE: N.T.S.



10 ROOF EXHAUSTER DETAIL
SCALE: N.T.S.



11 DETAIL OF VERTICAL INLINE FLOOR MOUNTED PUMP
SCALE: N.T.S.



12 TYPICAL HANGERS FOR WATER PIPES
SCALE: N.T.S.

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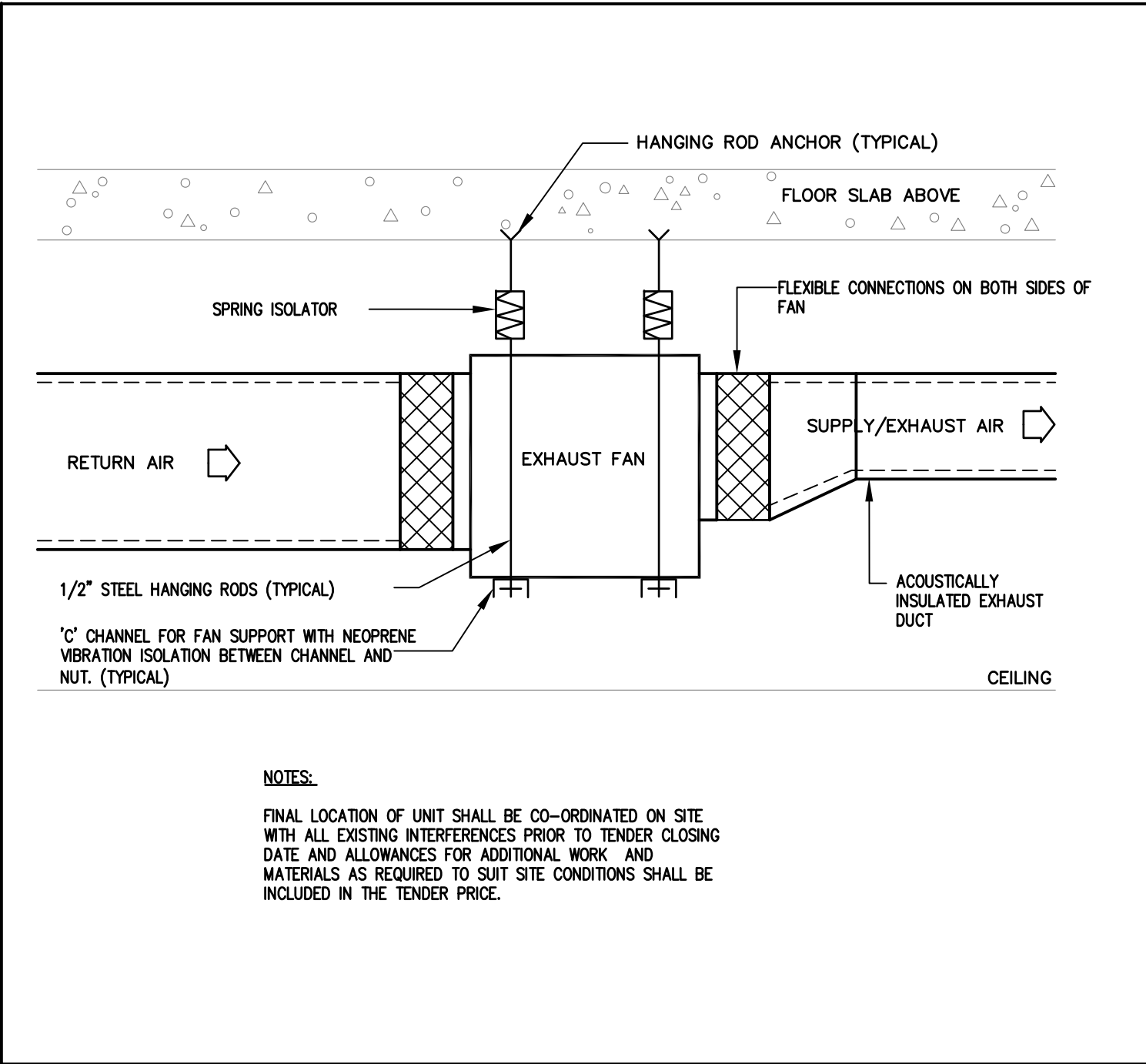
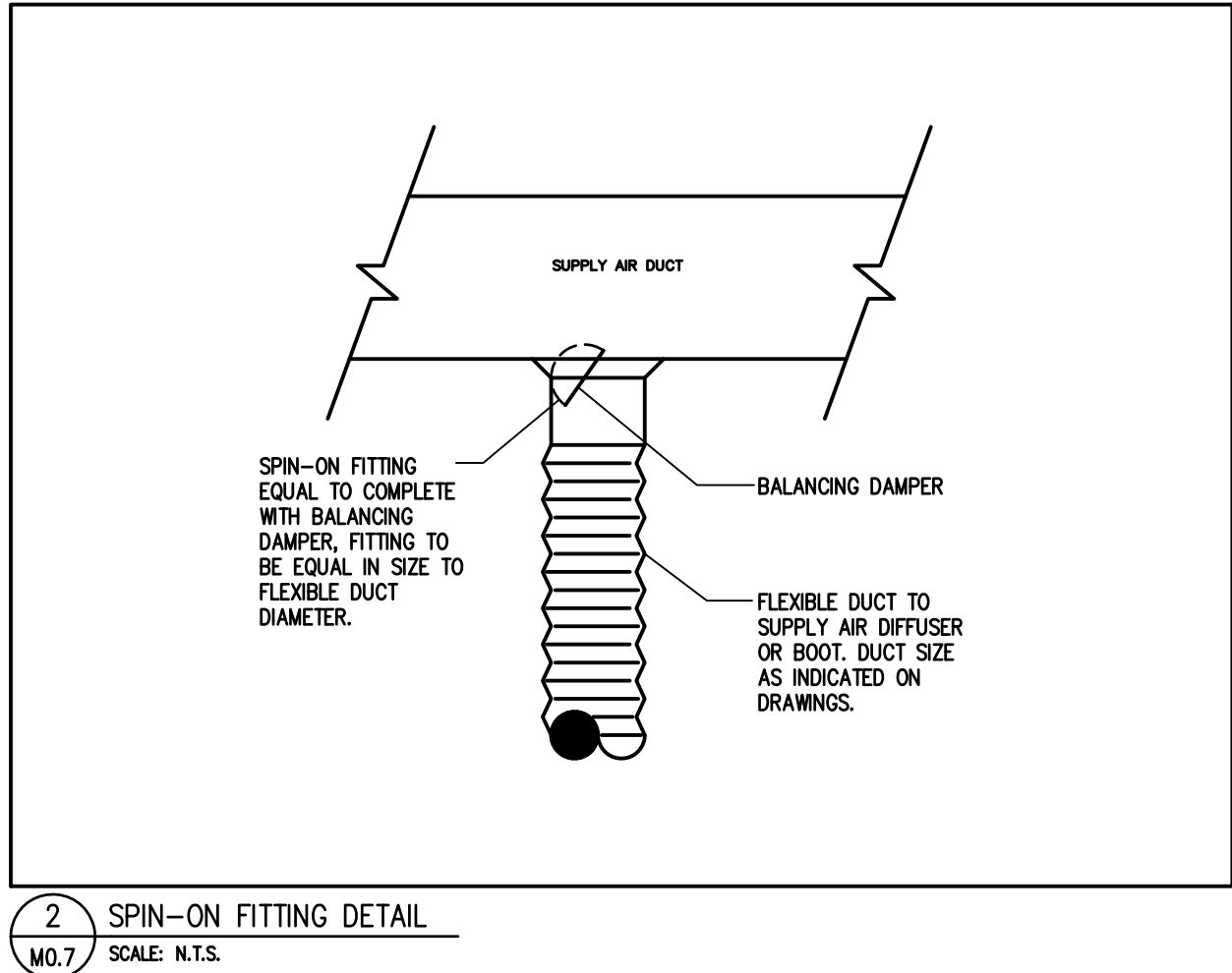
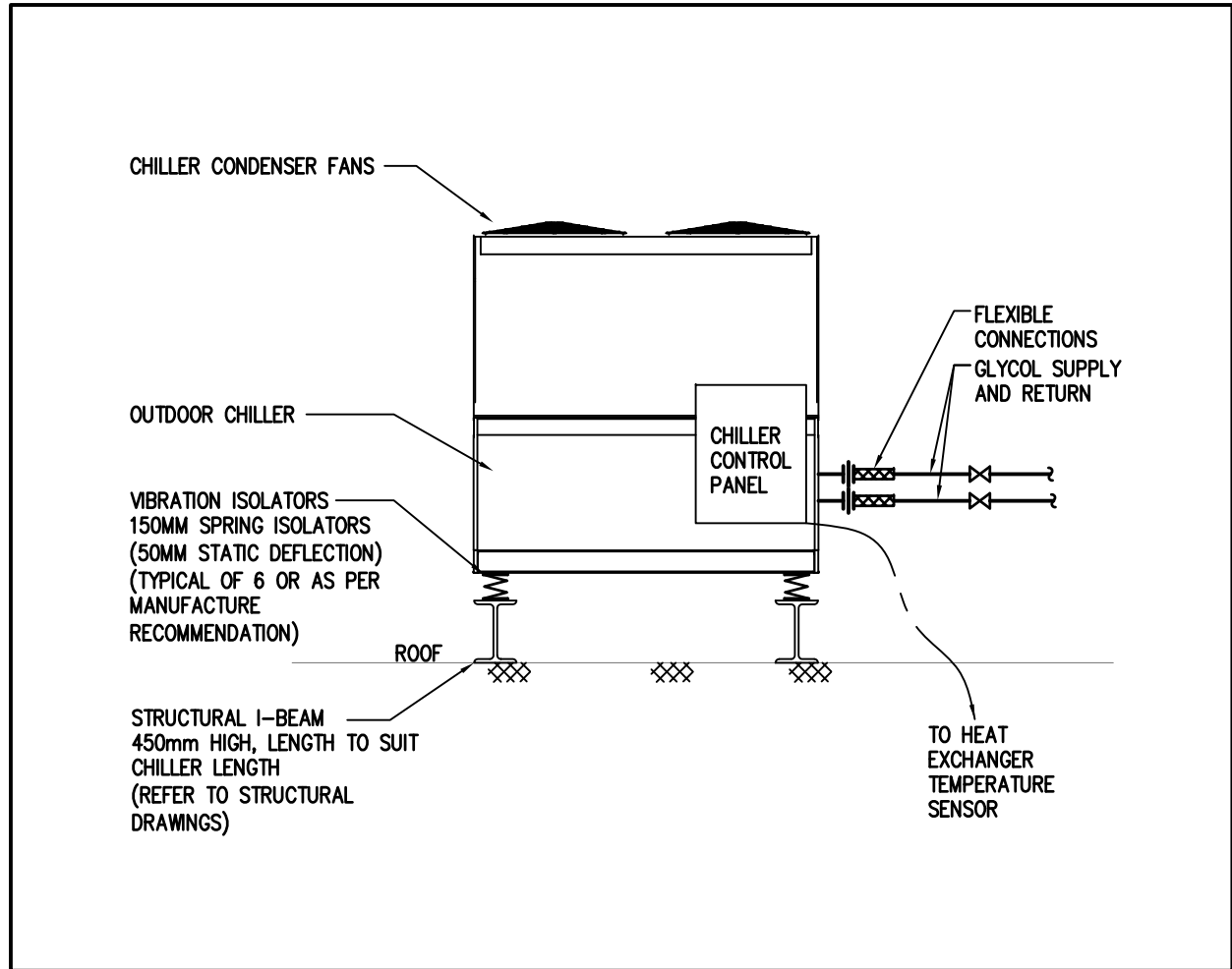
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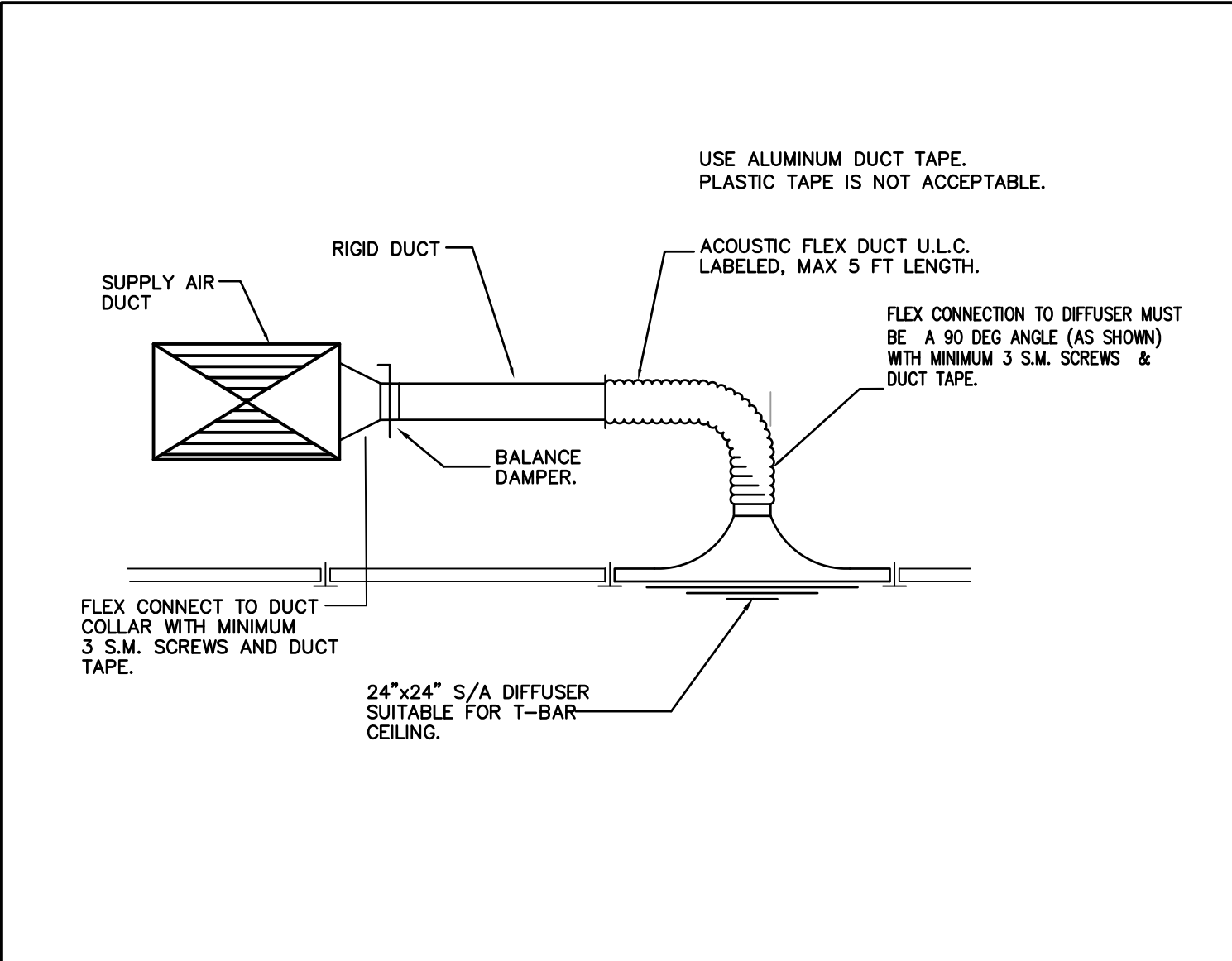
56 Edlican Drive, Concord, ON

PROJECT CODE: 22_31
DATE: March 4, 2024
STATUS: Issued for Tender

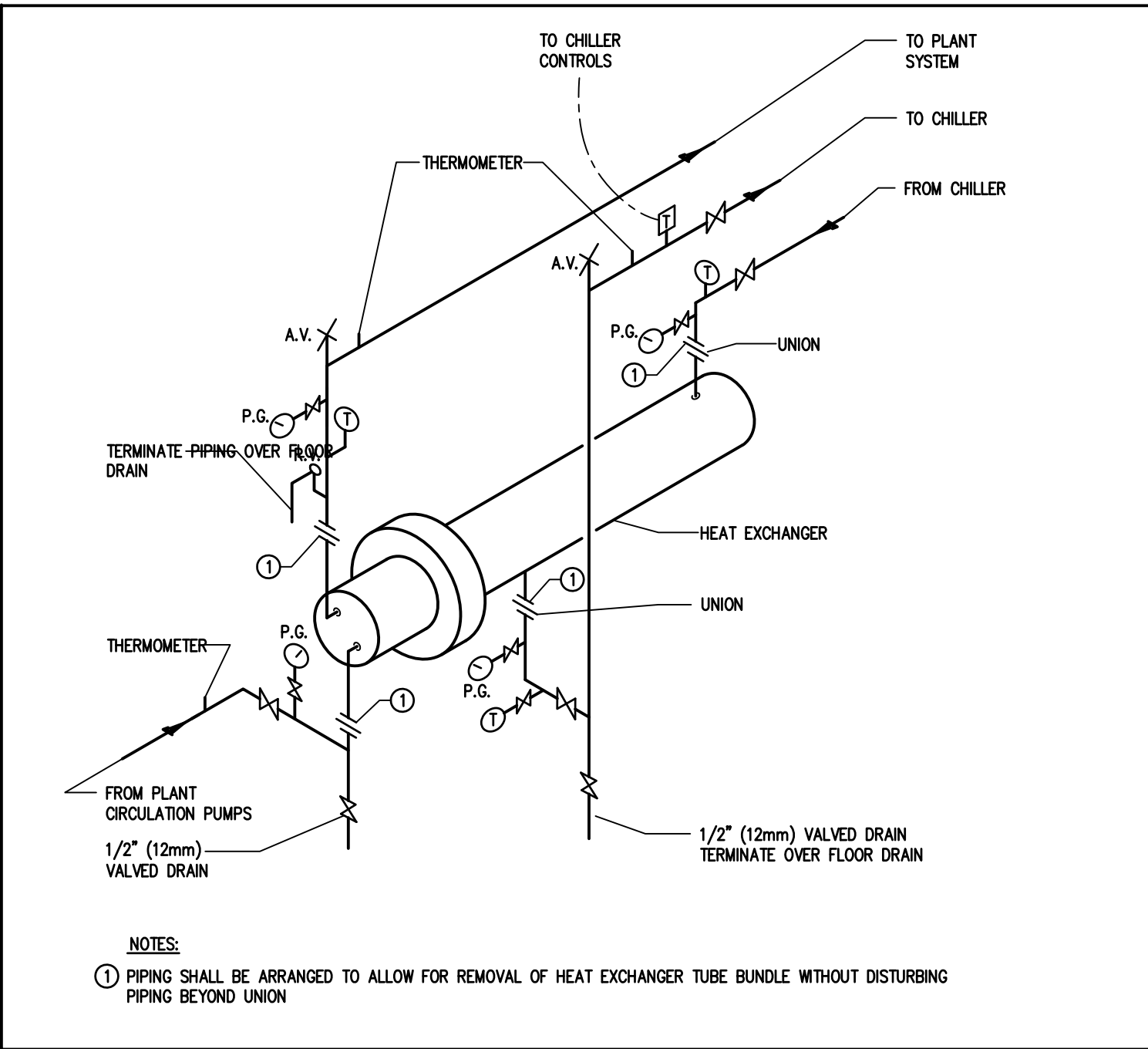
Mechanical Details
Sheet #1



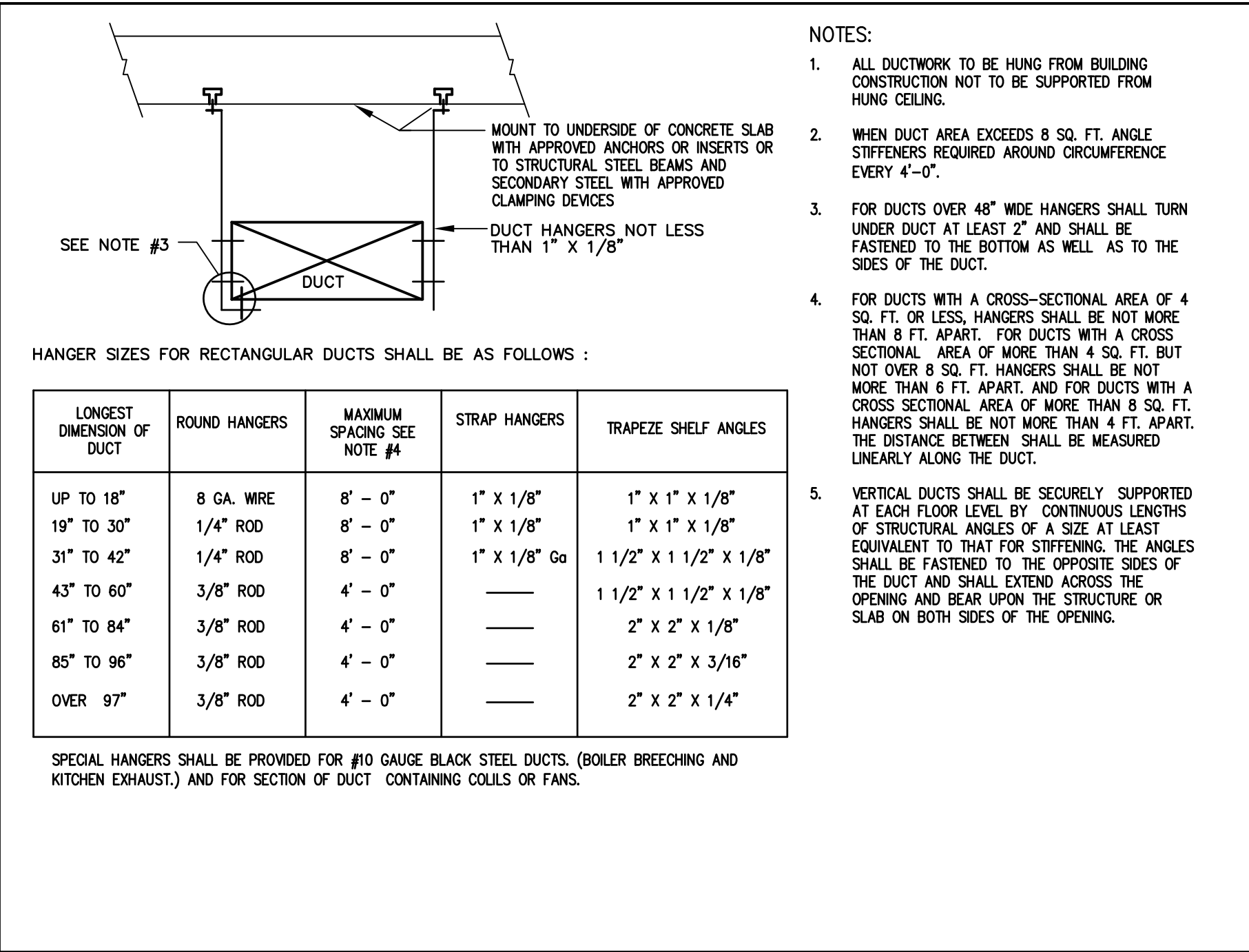
3 TYPICAL EXHAUST FAN SUPPORT DETAIL
M0.7 SCALE: N.T.S.



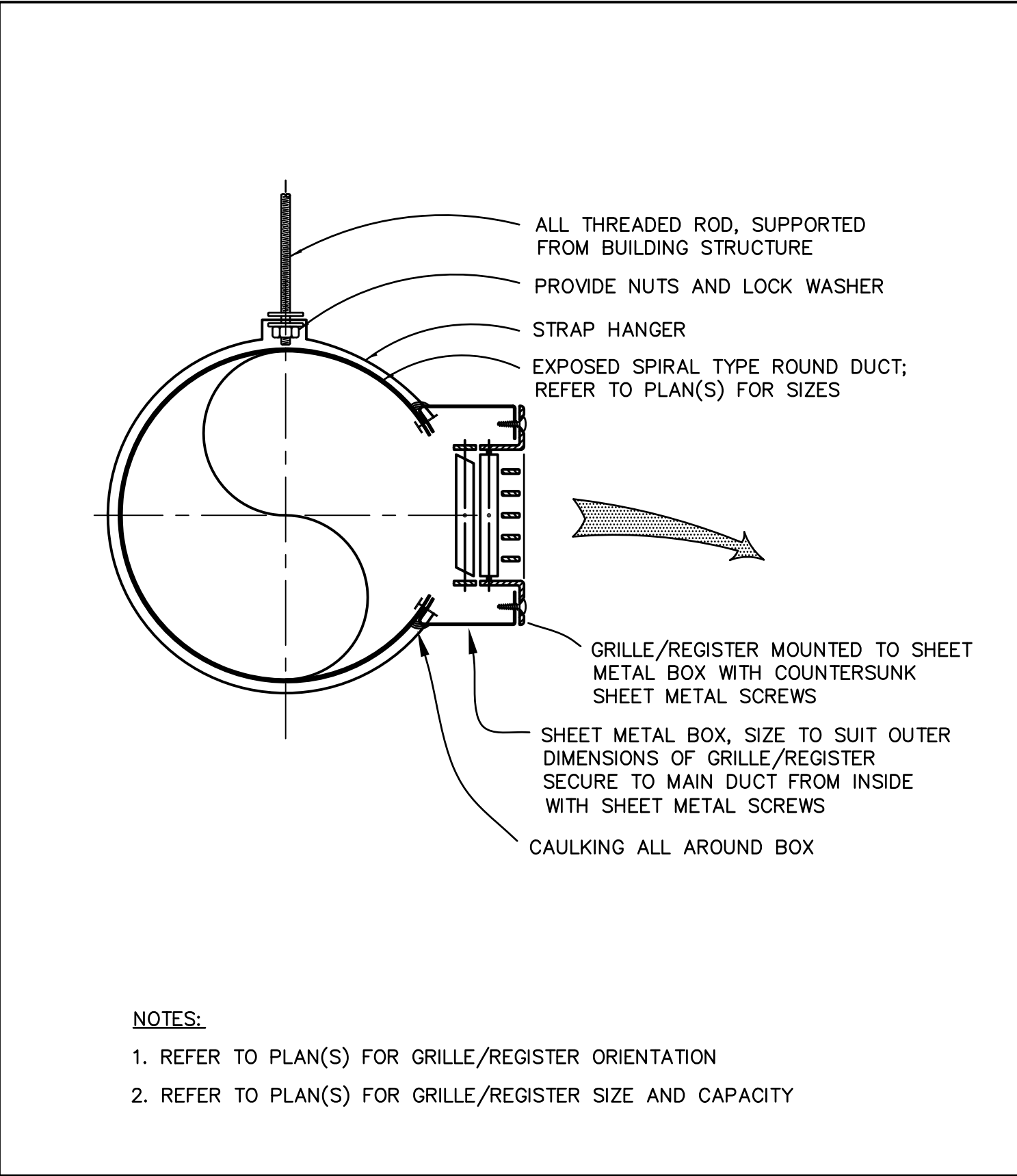
4 TYPICAL SUPPLY AIR DIFFUSER CONNECTION DETAIL
M0.7 SCALE: N.T.S.



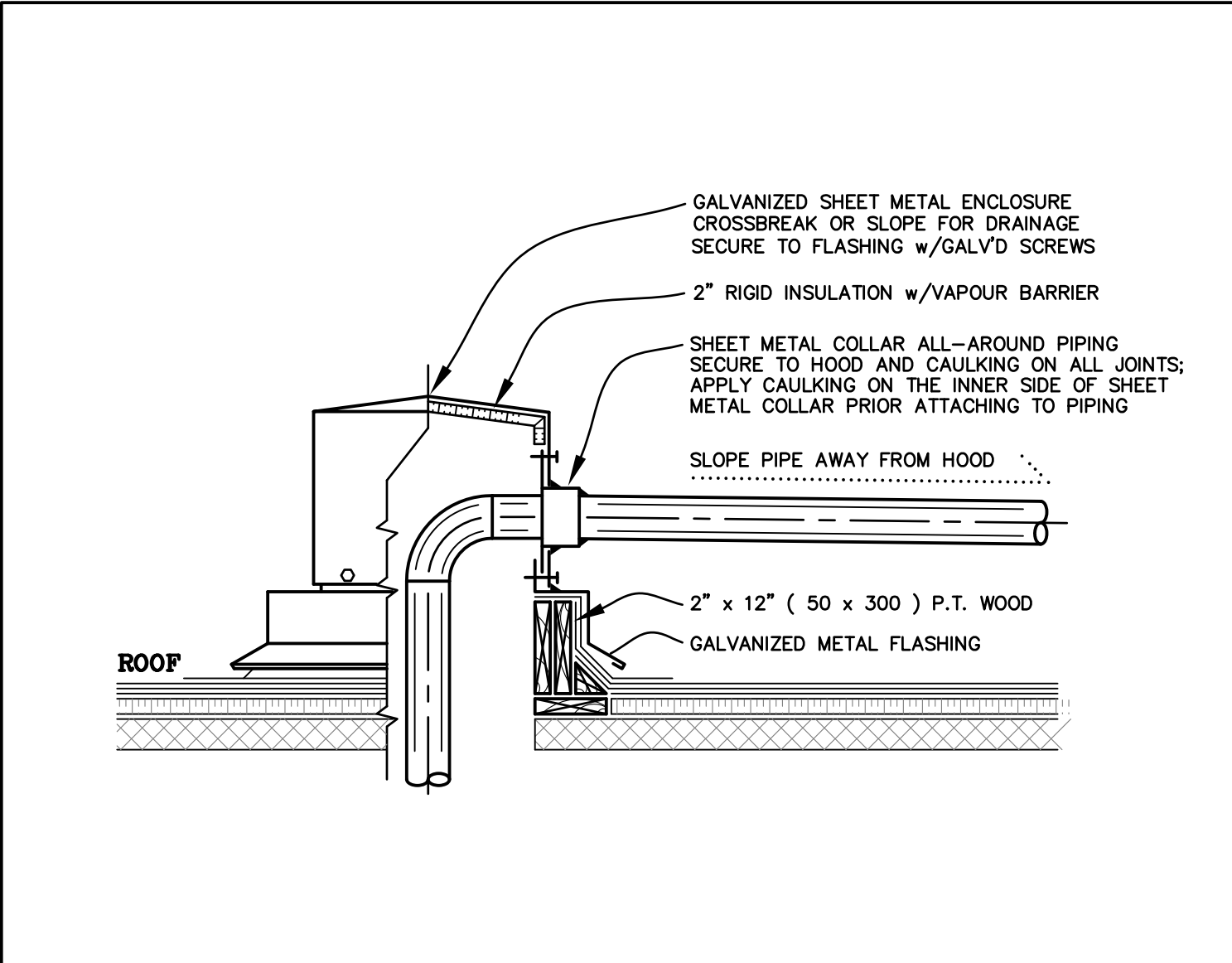
8 SCHEMATIC PIPING DIAGRAM FOR CHILLED WATER/GLYCOL HEAT EXCHANGER
M0.7 SCALE: N.T.S.



5 DUCT SUPPORT DETAIL
M0.7 SCALE: N.T.S.



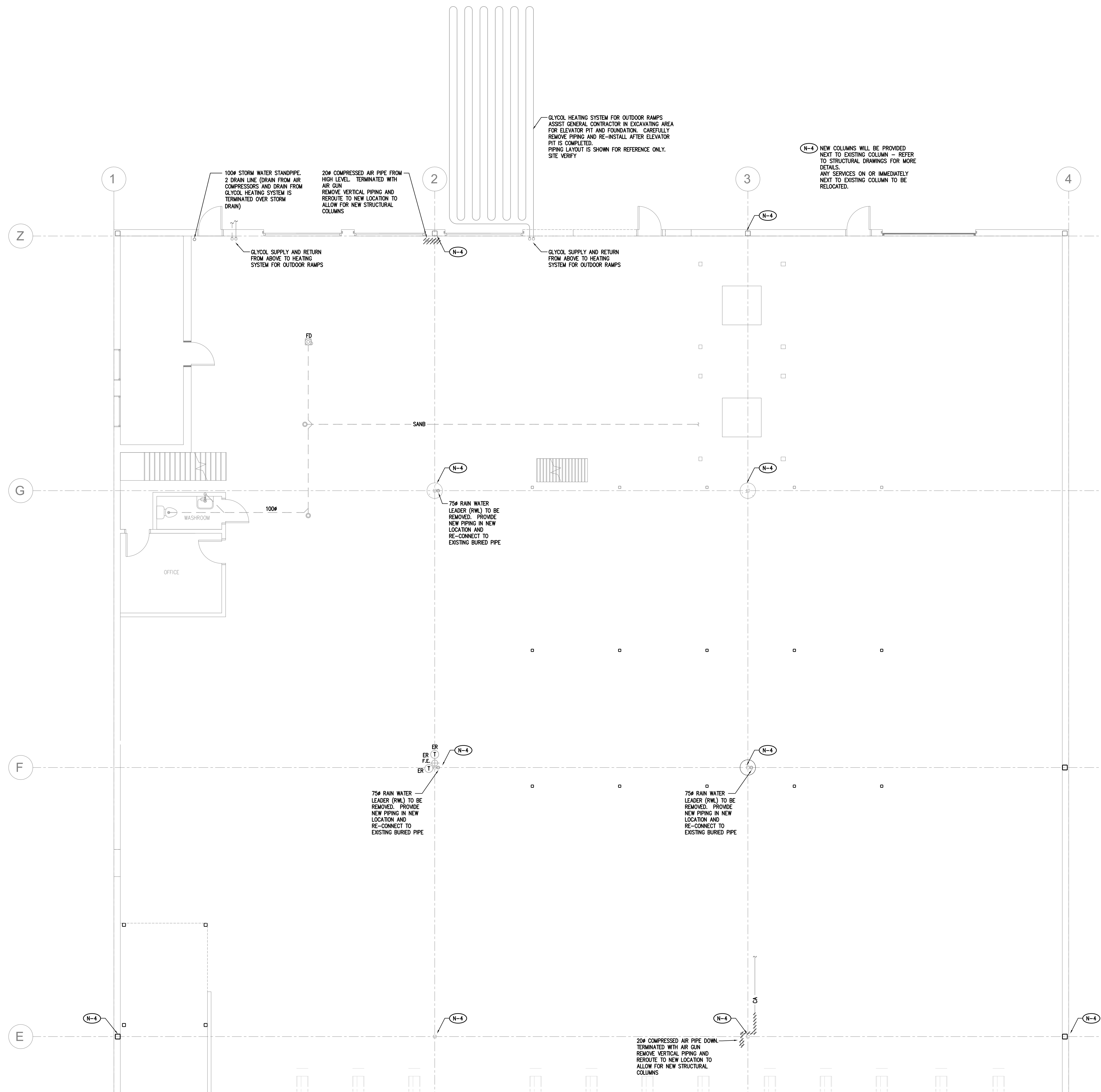
6 DUCT MOUNTED GRILLE AND ROUND DUCT SUPPORT DETAIL
M0.7 SCALE: N.T.S.



7 PIPING THROUGH ROOF DETAIL
M0.7 SCALE: N.T.S.

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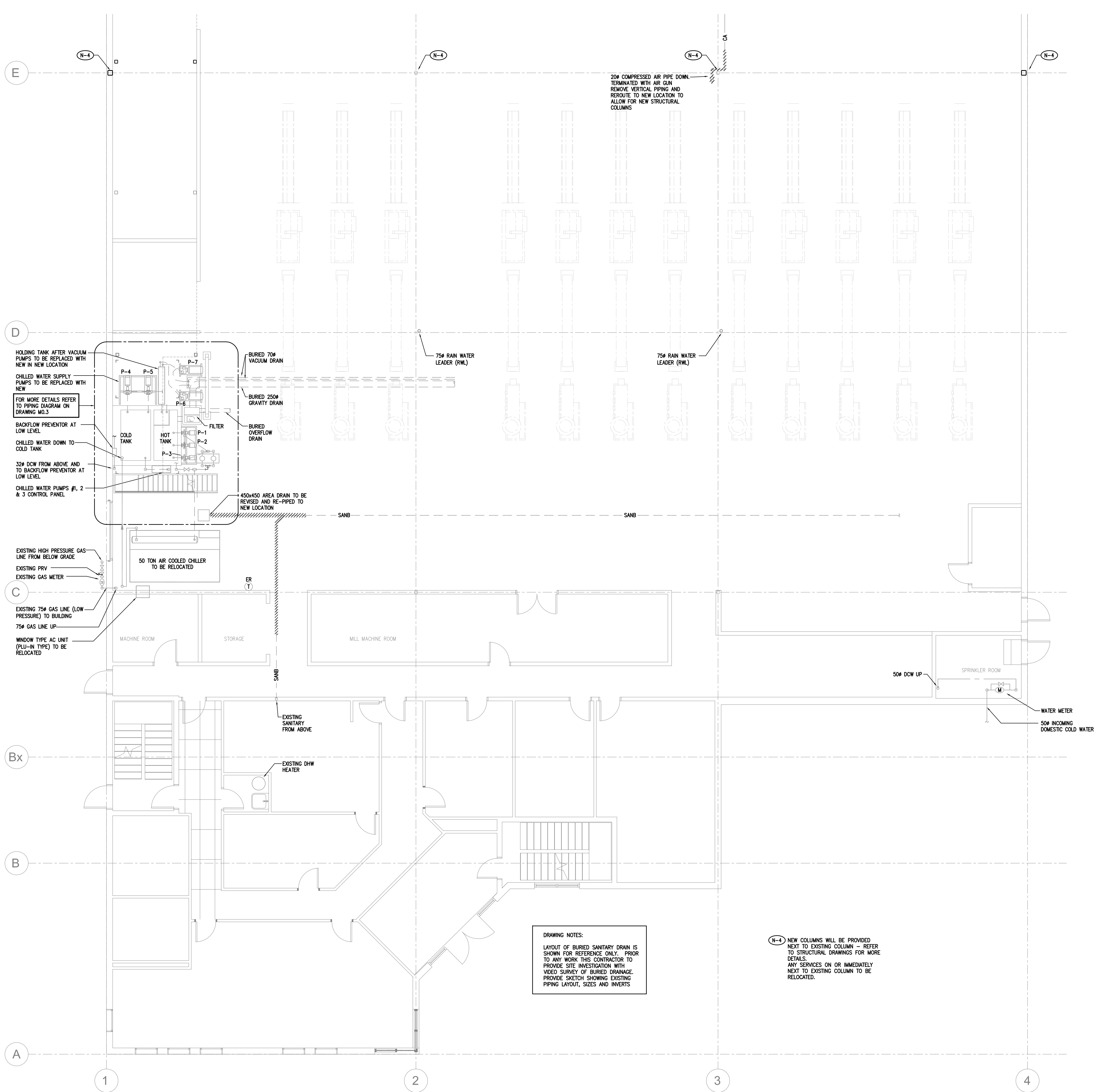
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PROJECT CODE:	SCALE:
<u>22 31</u>	1:75
DATE:	STATUS:
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Part Ground Floor
North
Demolition

Rev	Description	Date
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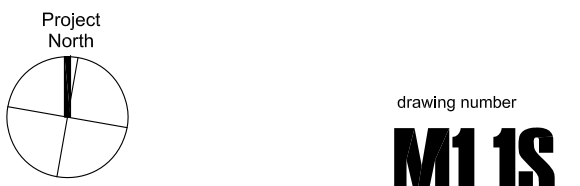
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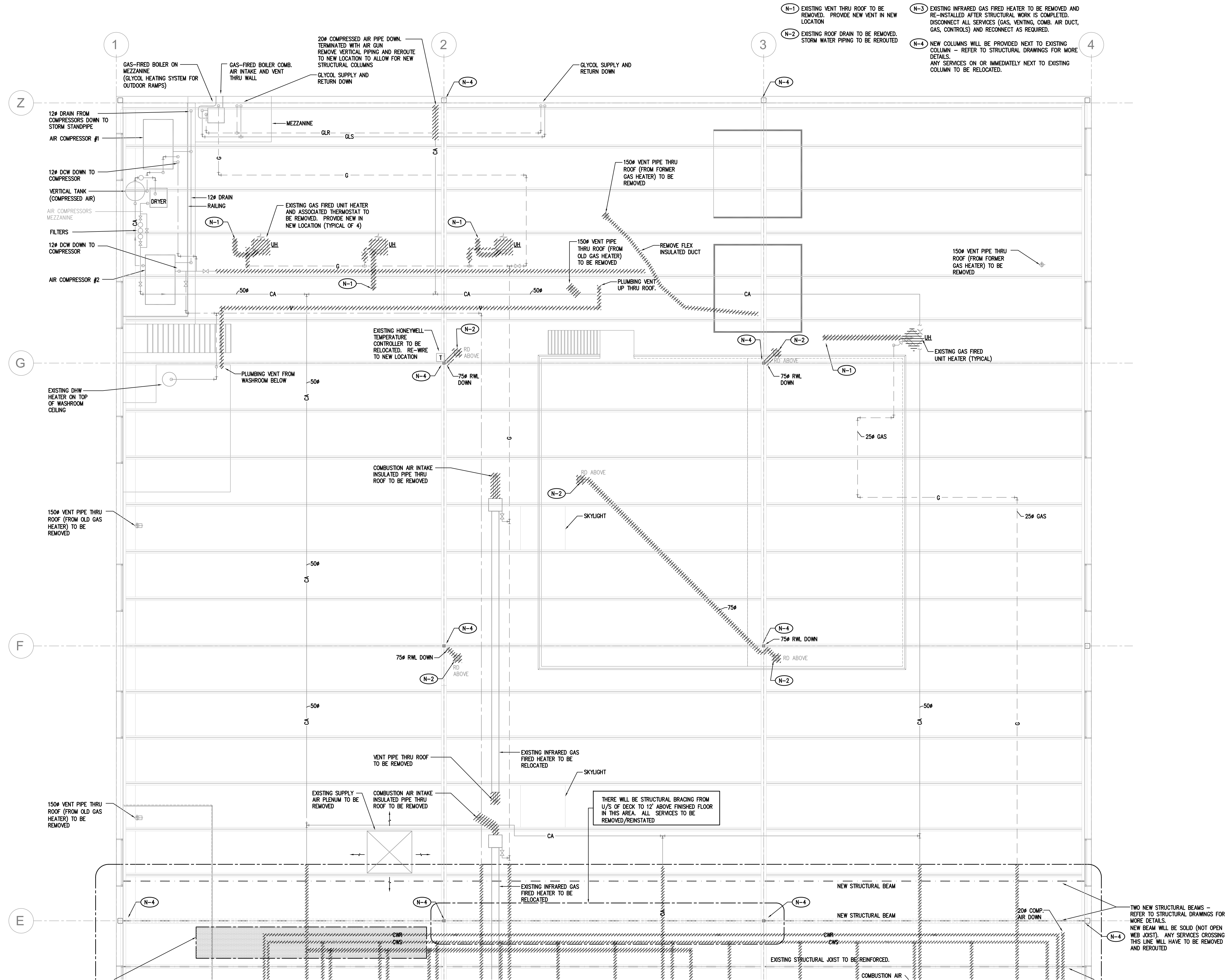
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Part Ground Floor
South
Demolition





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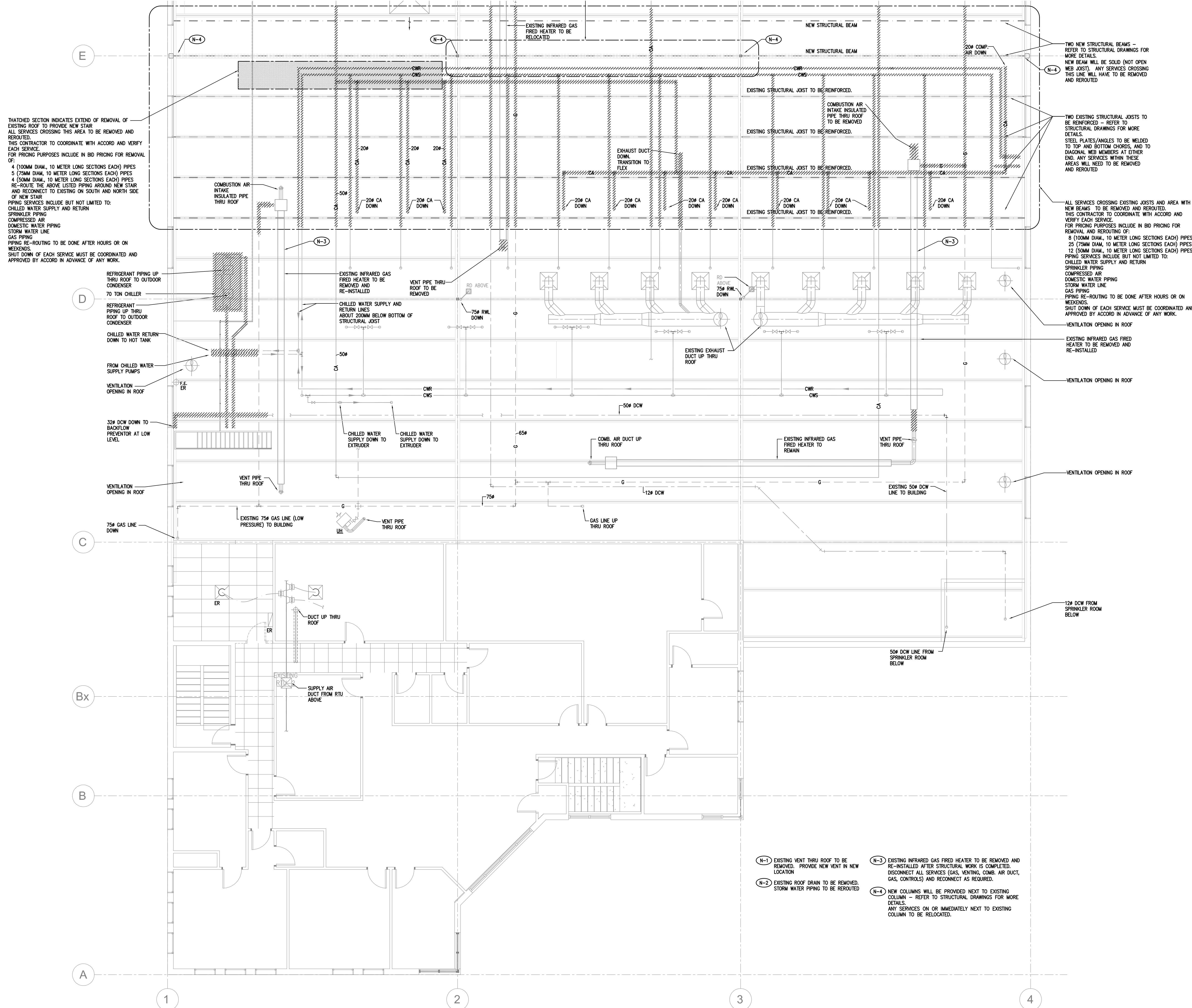
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Part Mezzanine Level
North
Demolition



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Part Mezzanine Level
South
Demolition

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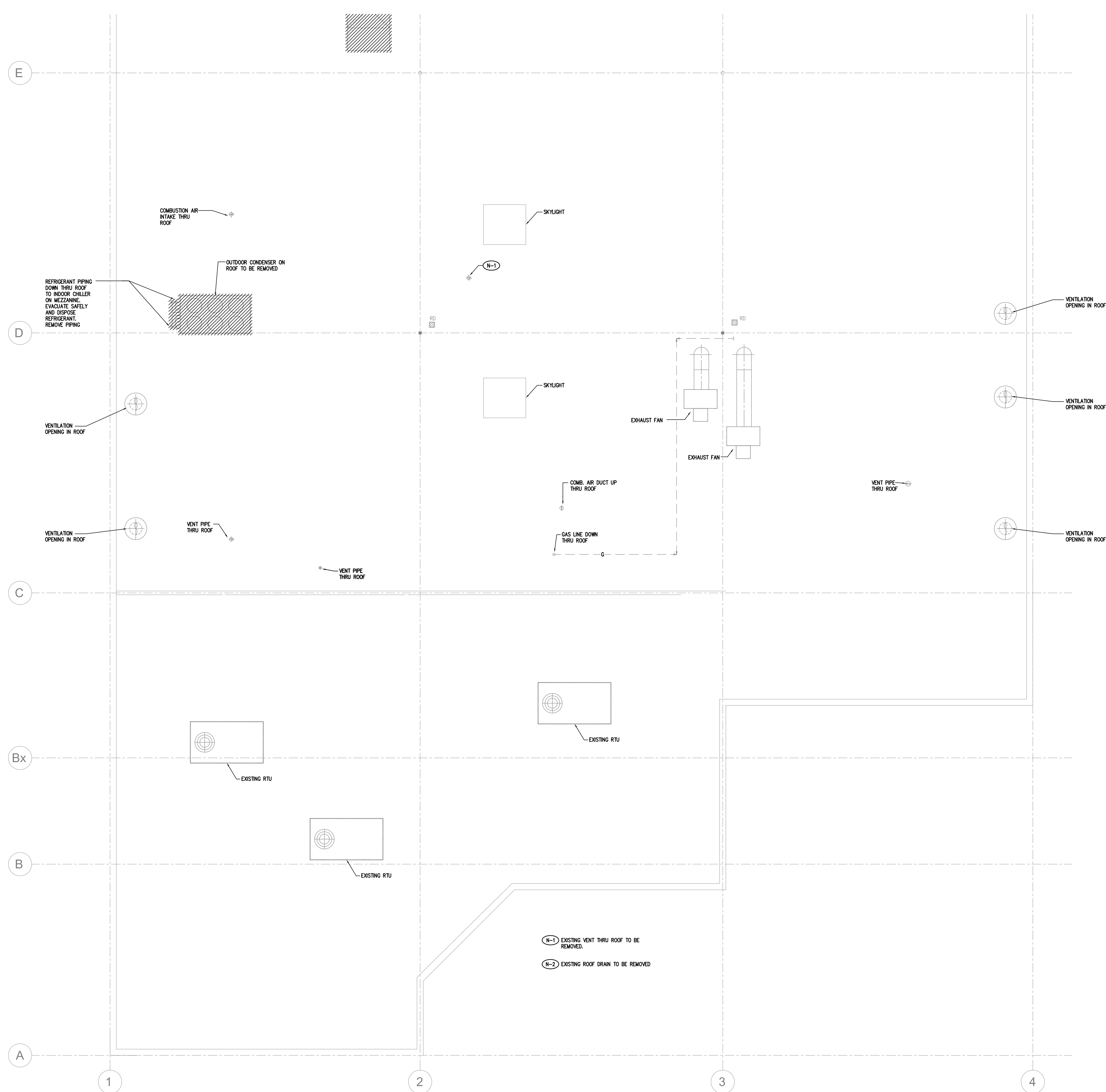
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Roof
North
Demolition



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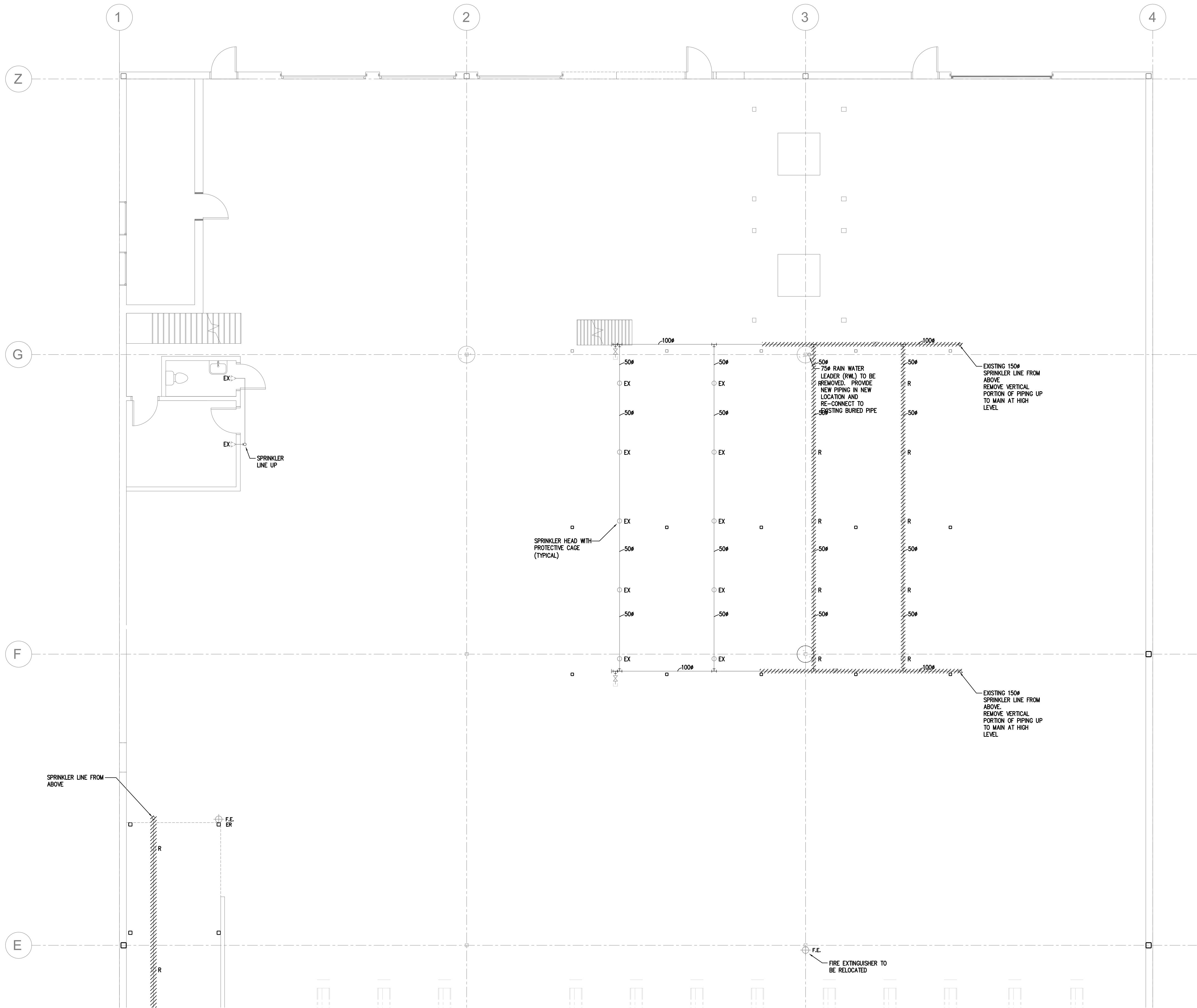
Roof South Demolition



Project
North

drawing number
M13S

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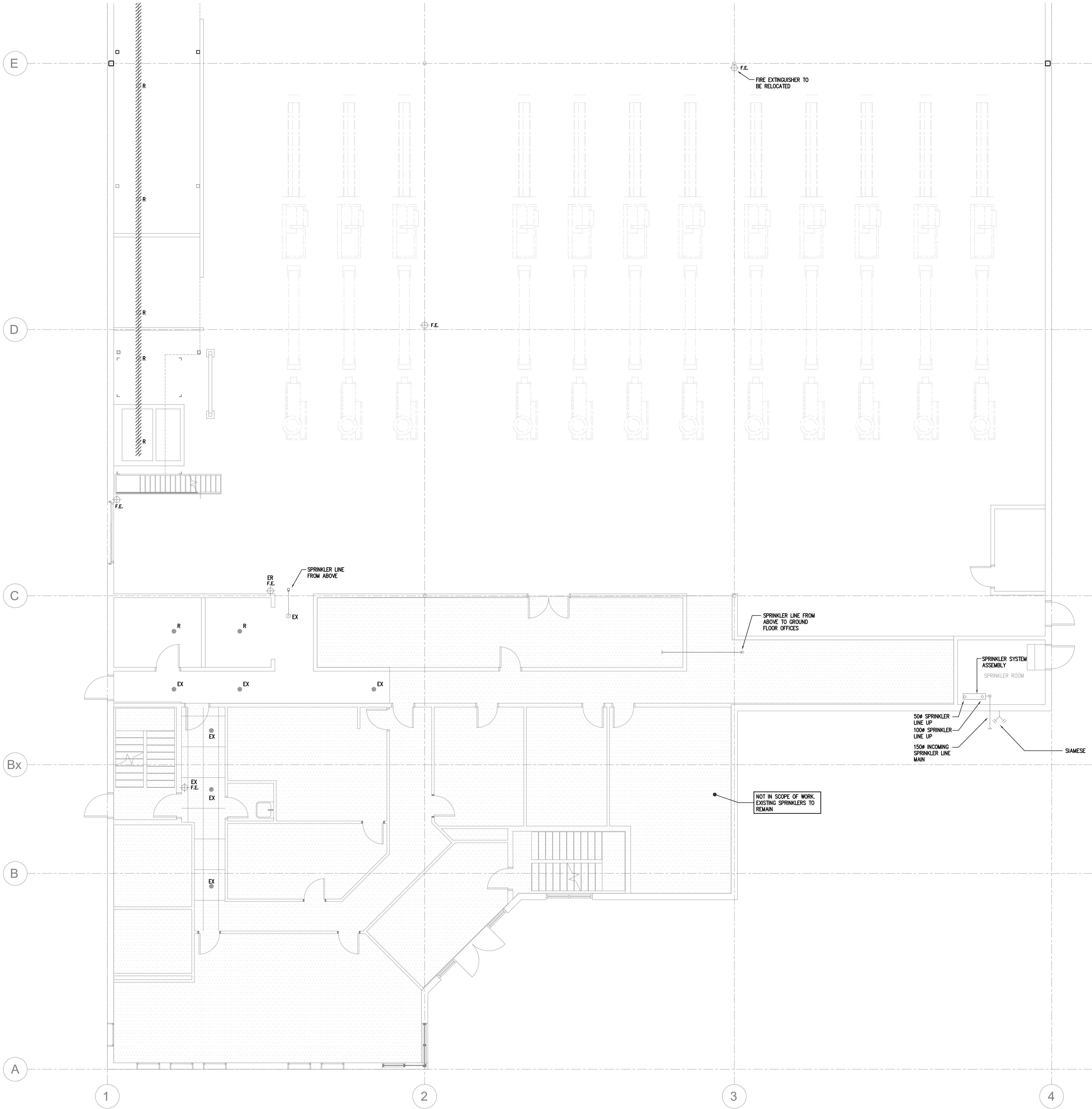
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DATE:	STATUS:
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Part Ground Floor
Noth
Sprinklers Demolition



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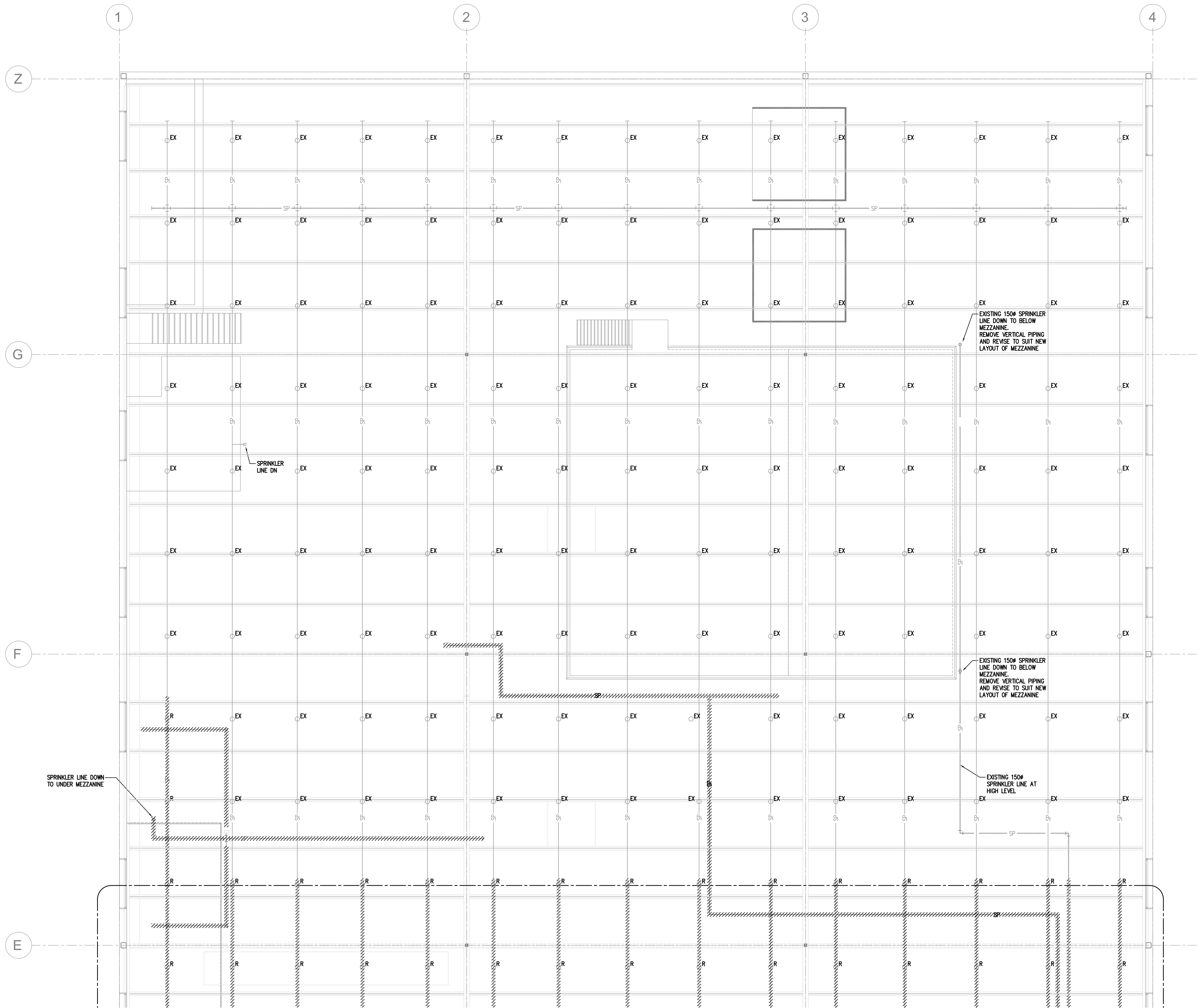
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Part Ground Floor
South
Sprinklers Demolition



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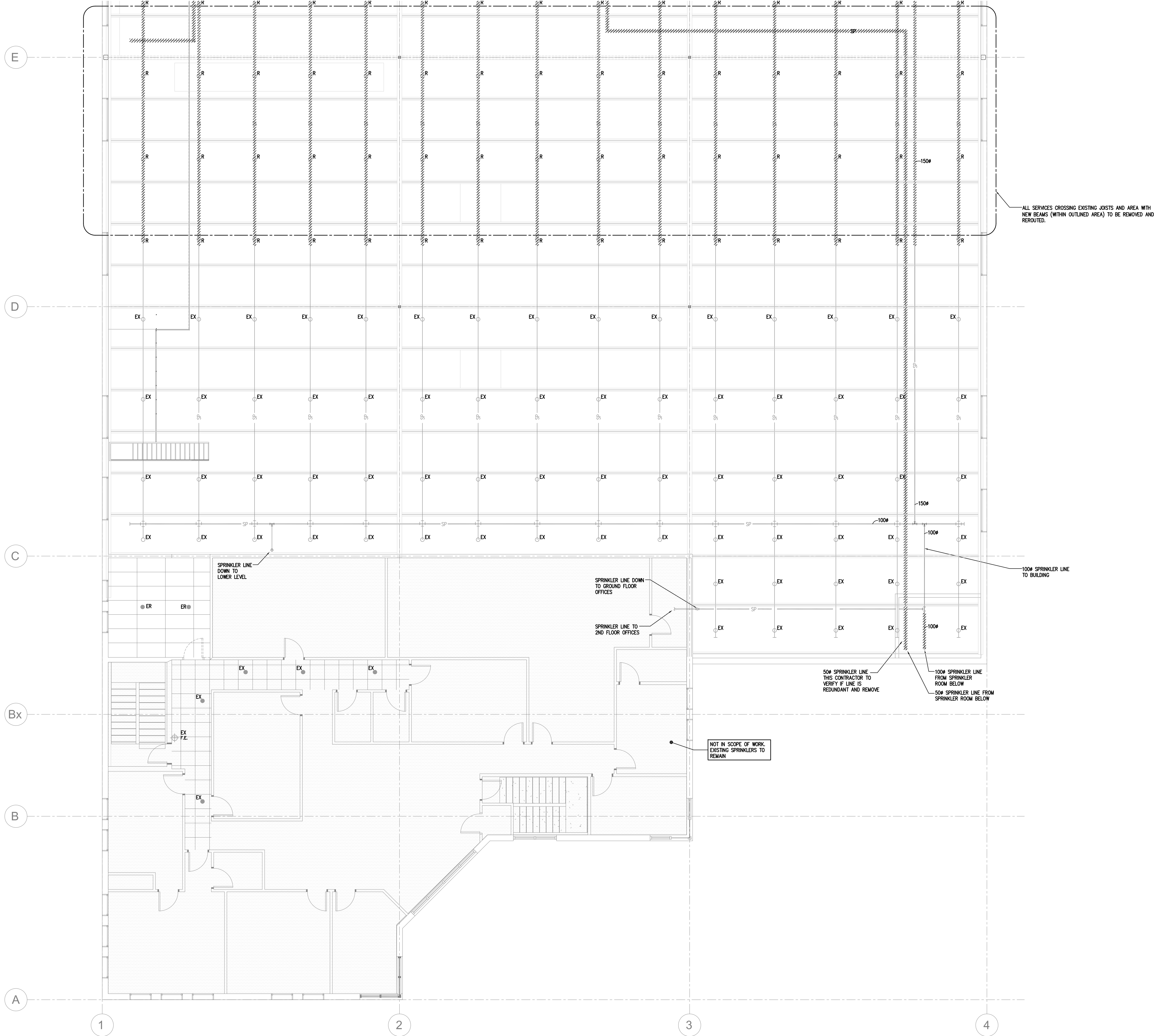
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Part Mezzanine Level
North
Sprinklers Demolition





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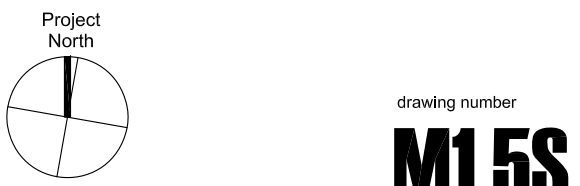
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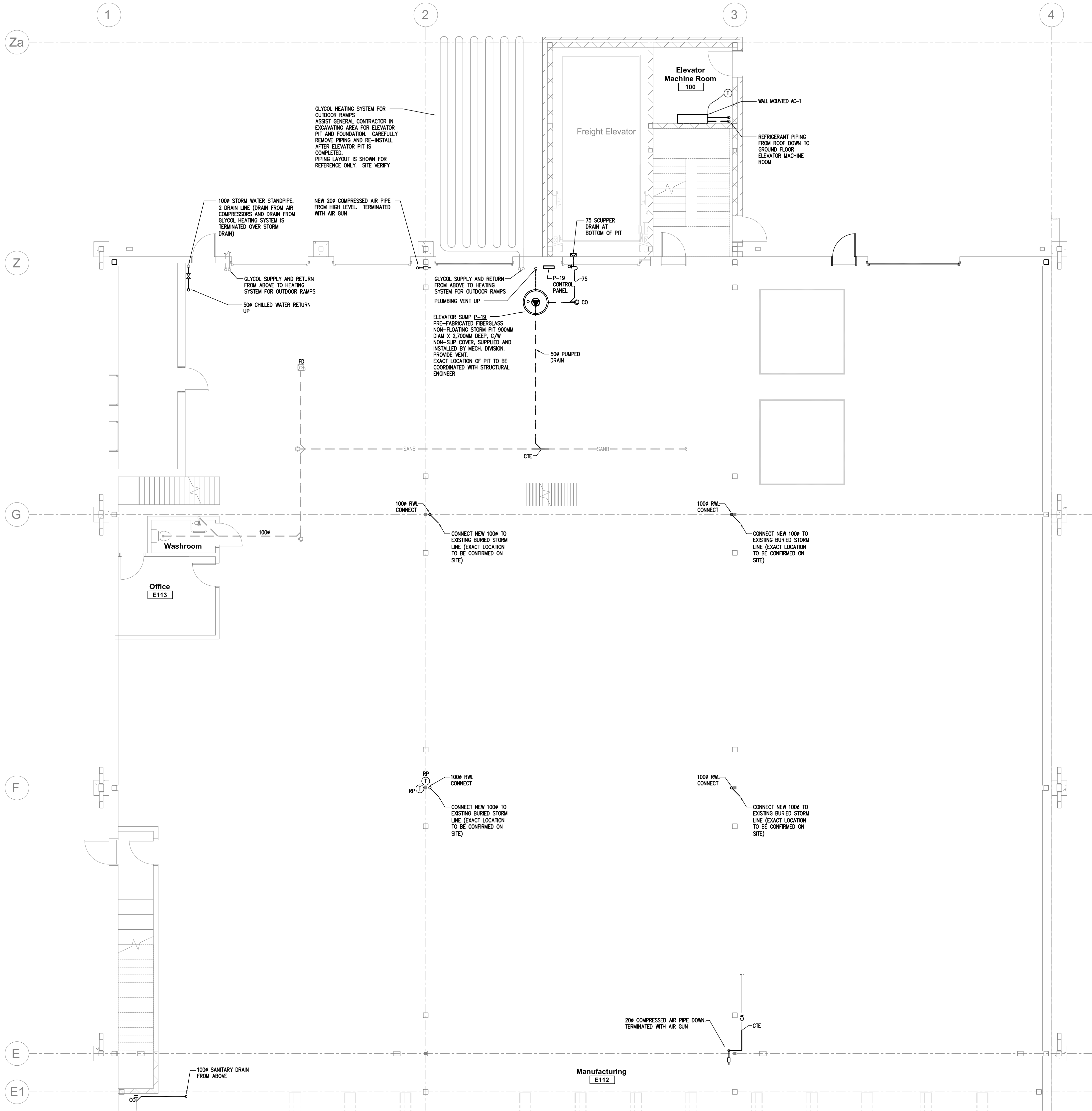
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Part Mezzanine Level
South
Sprinklers Demolition



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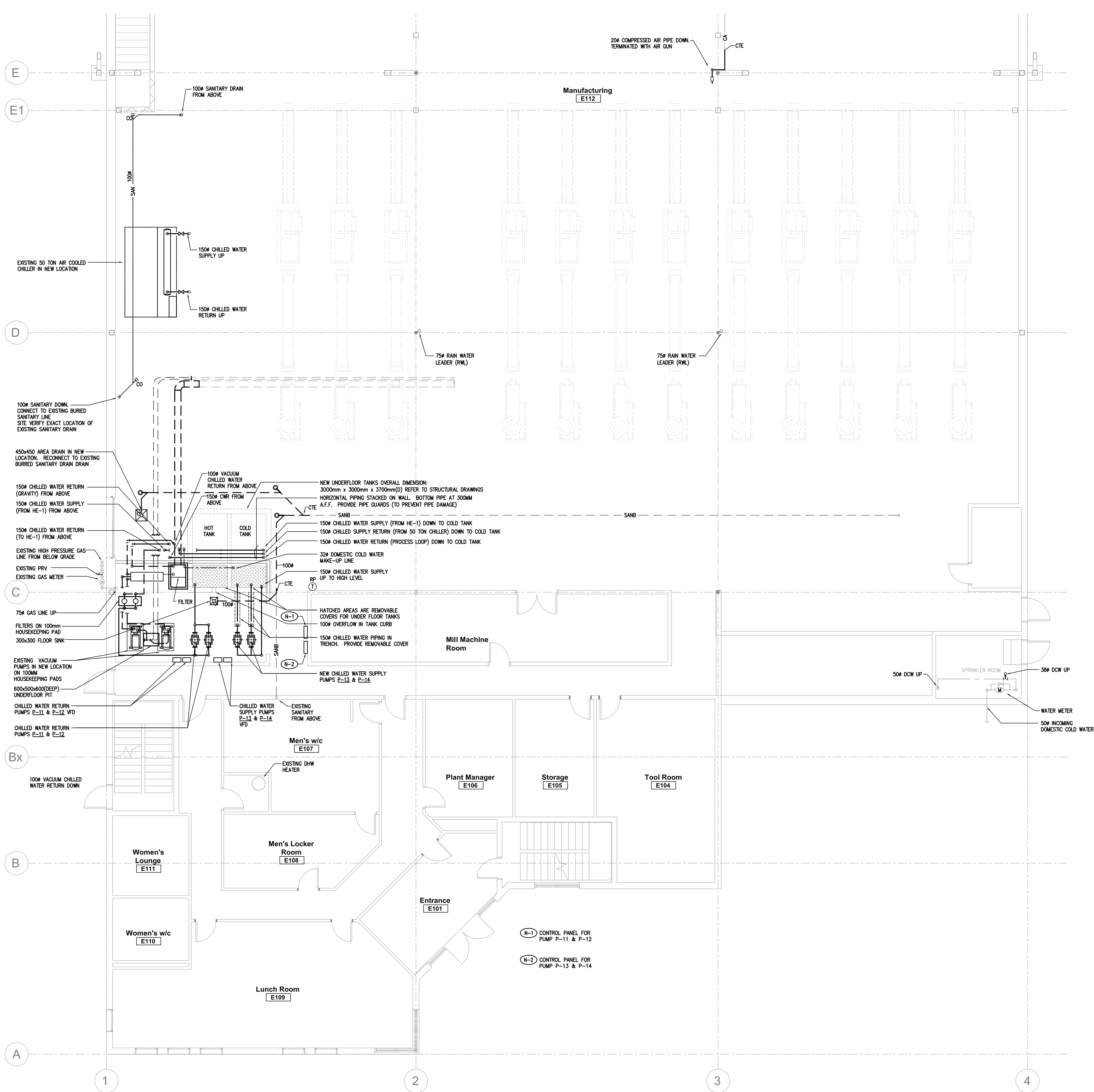
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Part Ground Floor
North
Mechanical - New Layout



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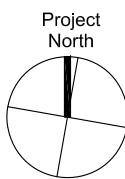
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Part Ground Floor
South
Mechanical - New Layout



drawing number
M2.1S

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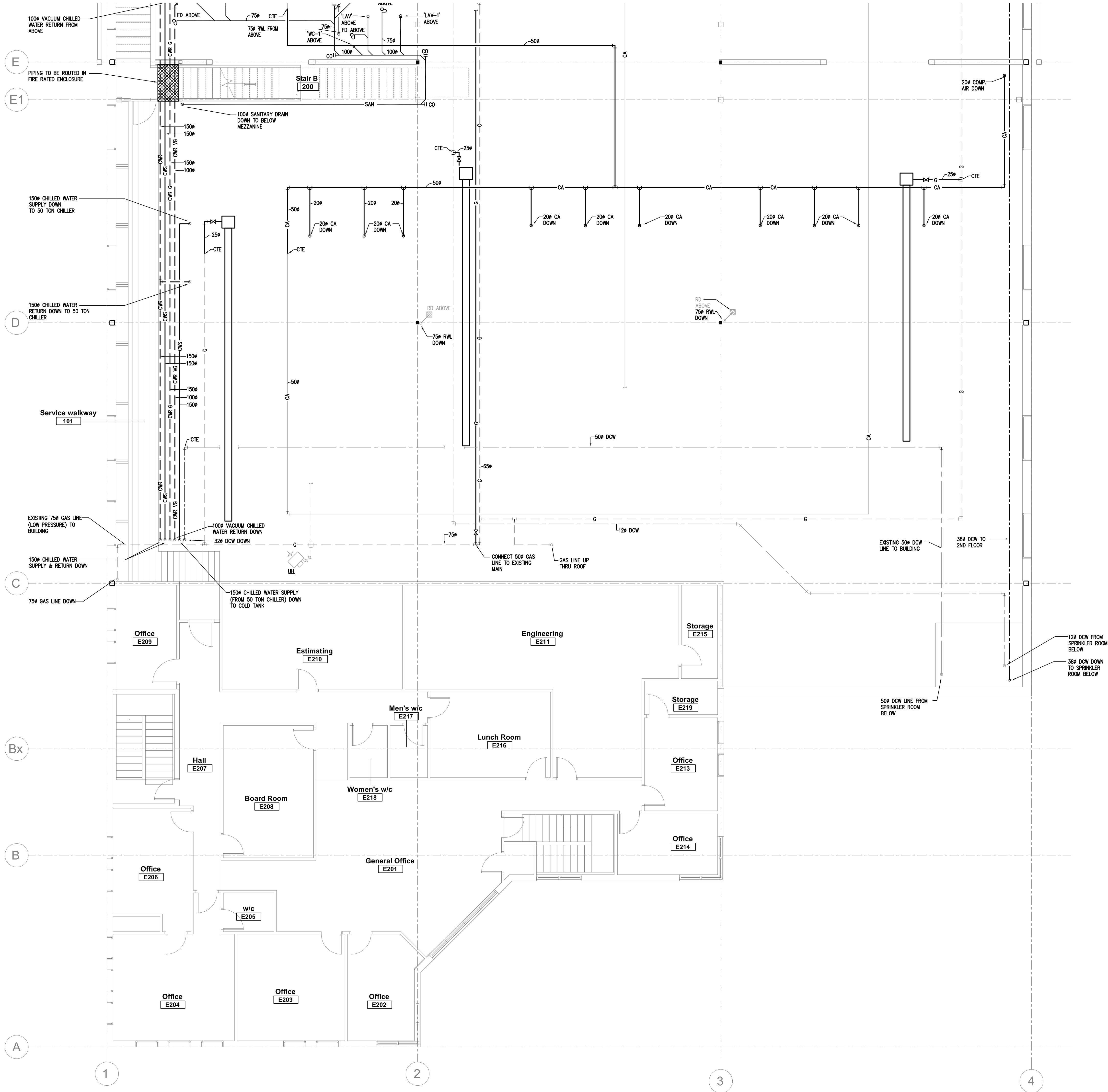
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Part Mezzanine Level
North
Mechanical - New Layout



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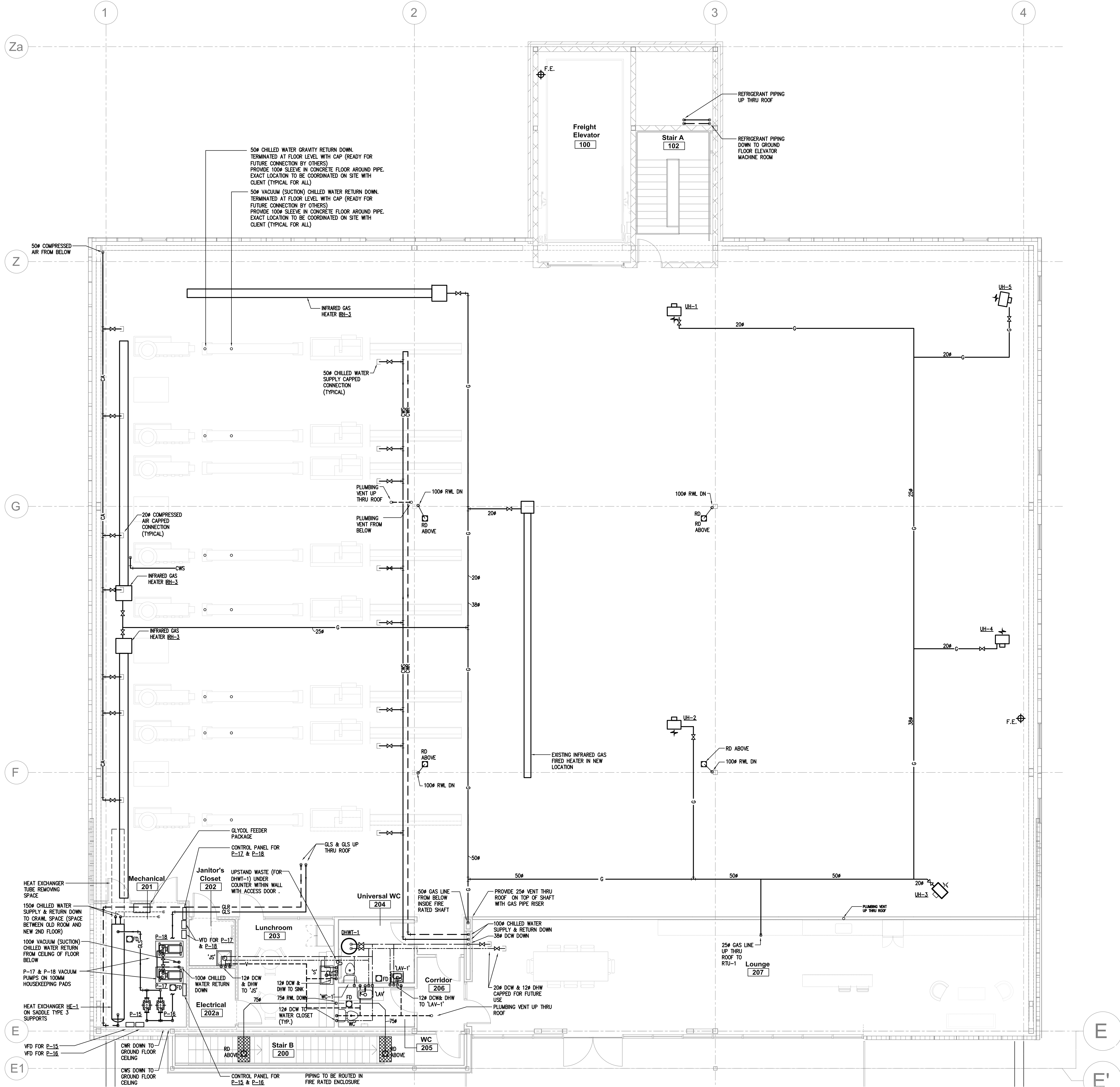
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Part Mezzanine Level
South
Mechanical - New Layout



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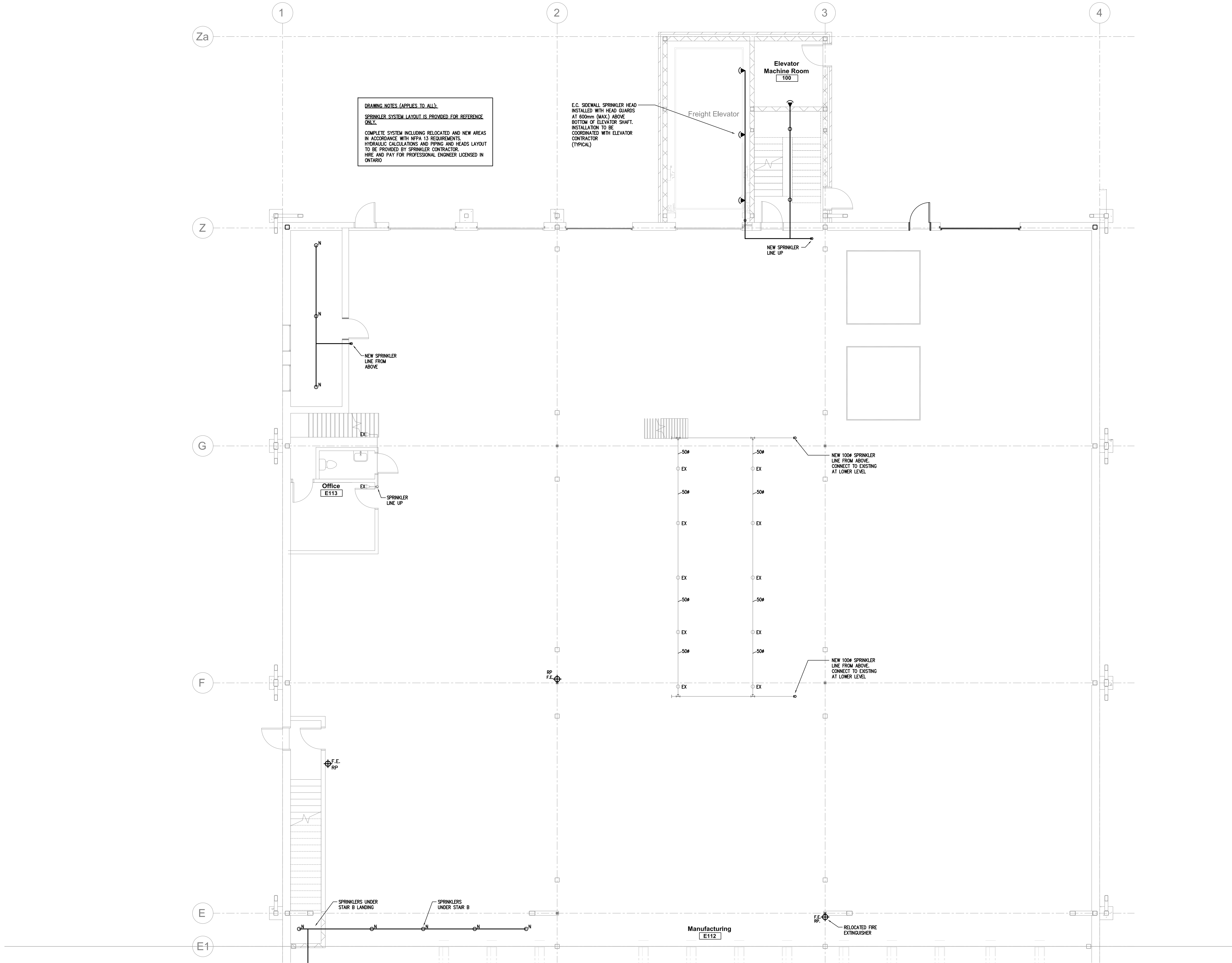
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Part 2nd Floor
North
Mechanical - New Layout



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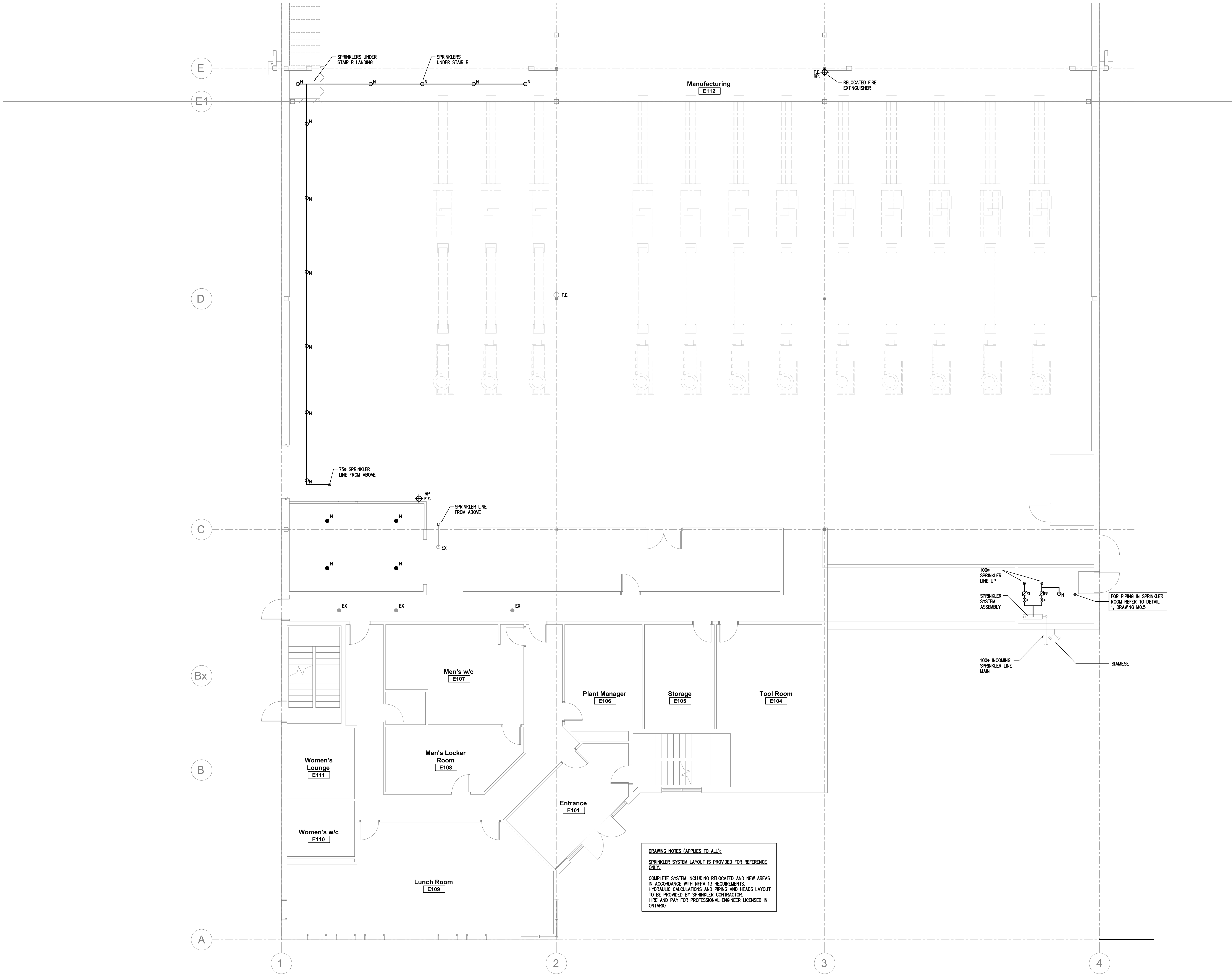
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Part Ground Floor
North
Sprinklers - New Layout



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SHARMA & PARTNERS INC.
Mechanical and Electrical Engineers
85 Carlaw Drive,
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SEI PROJECT # : 2023-1010

WORKSHOP architecture

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Accord Vaughan

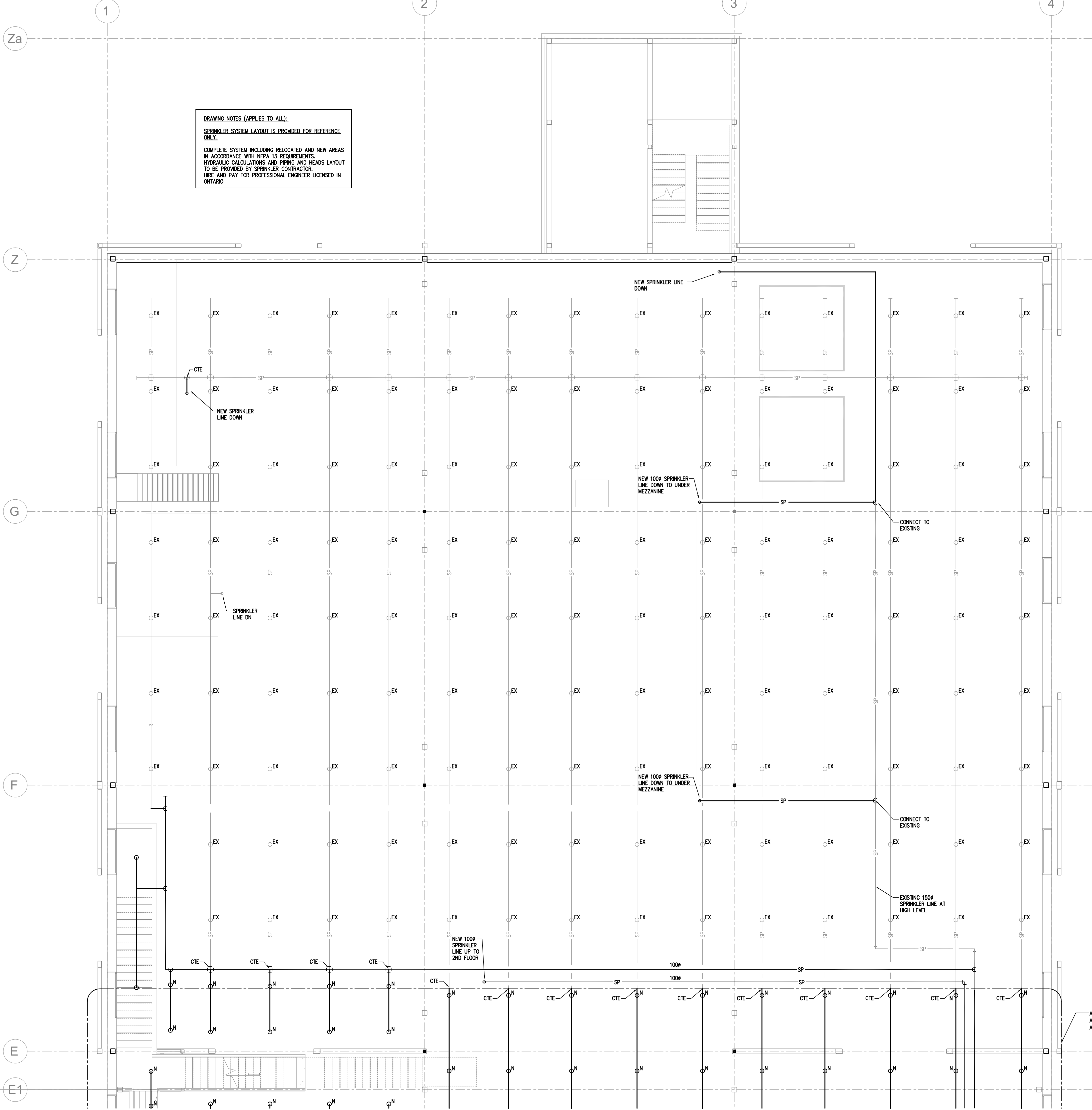
56 Edlican Drive, Concord, ON

PROJECT CODE: 22_31
SCALE: 1:75
DATE: March 4, 2024
STATUS: Issued for Tender

Part Mezzanine Floor
North
Sprinklers - New Layout

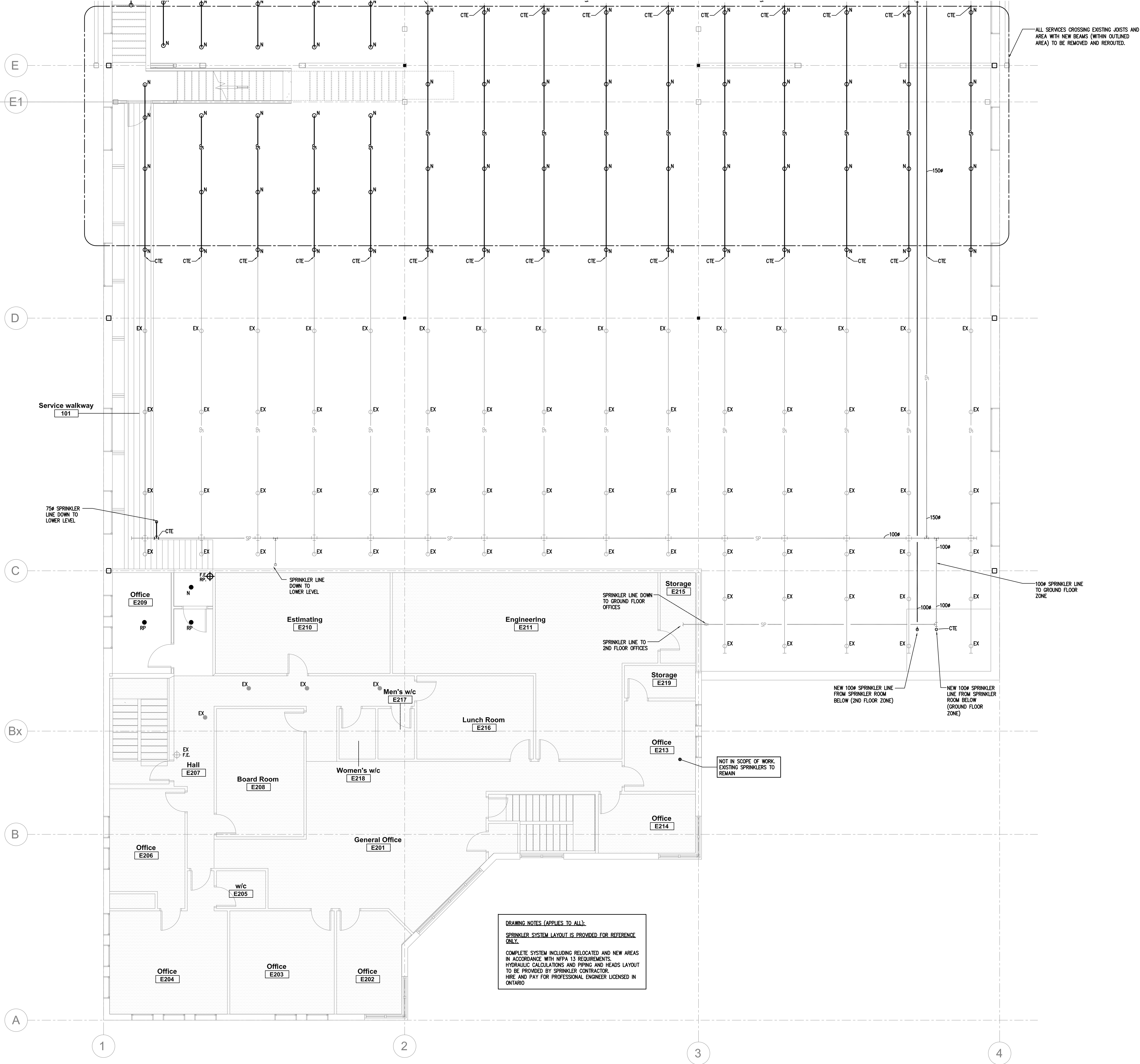


DRAWING NOTES (APPLIES TO ALL):
SPRINKLER SYSTEM LAYOUT IS PROVIDED FOR REFERENCE ONLY.
COMPLETE SYSTEM INCLUDING RELOCATED AND NEW AREAS IN ACCORDANCE WITH NFPA 13 REQUIREMENTS. HYDRAULIC CALCULATIONS AND PIPING AND HEADS LAYOUT TO BE PROVIDED BY SPRINKLER CONTRACTOR. HIRE AND PAY FOR PROFESSIONAL ENGINEER LICENSED IN ONTARIO



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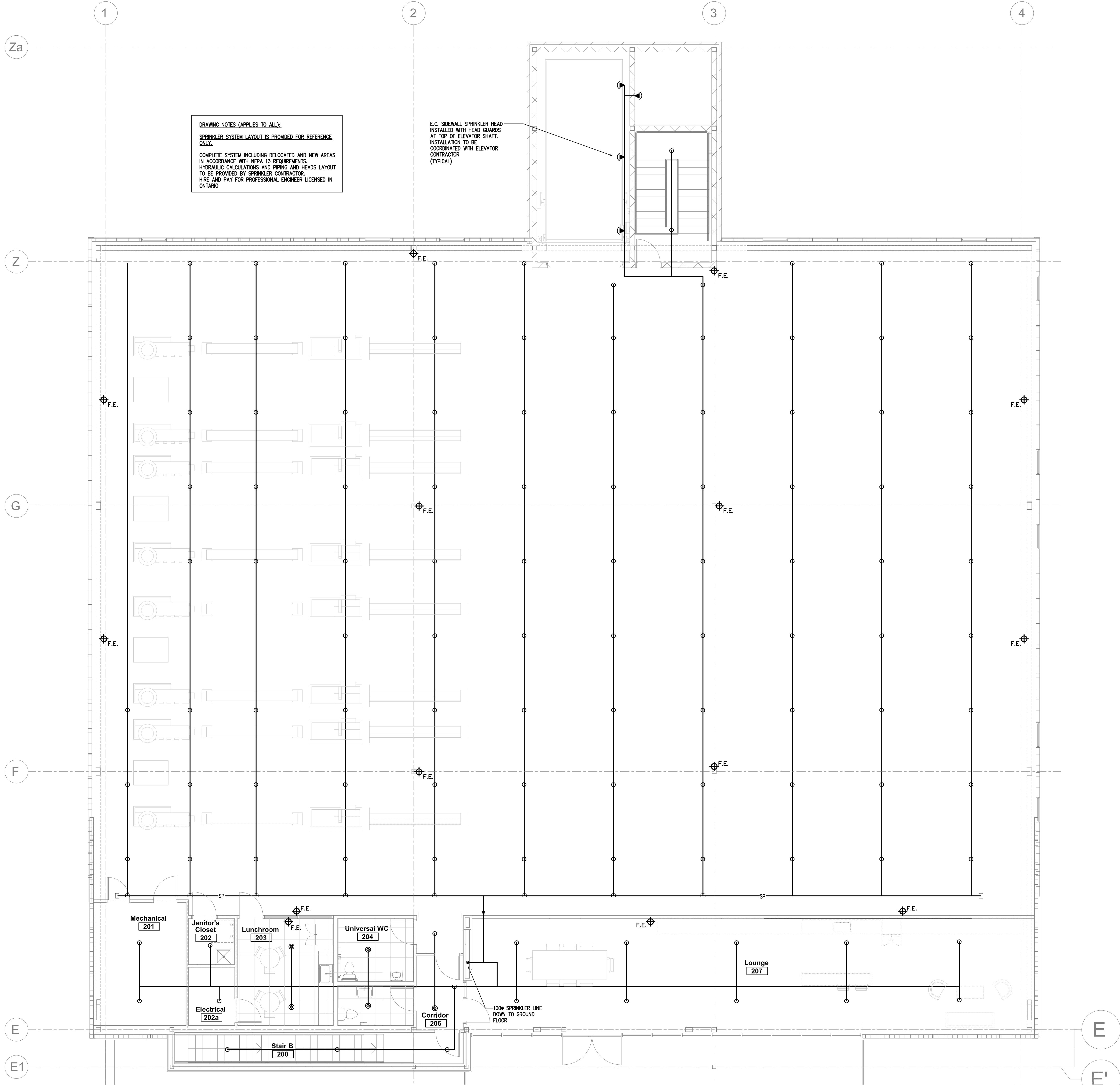
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Part Mezzanine Floor
South
Sprinklers - New Layout





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E.C. SIDEWALL SPRINKLER HEAD
INSTALLED WITH HEAD GUARDS
AT TOP OF ELEVATOR SHAFT.
INSTALLATION TO BE
COORDINATED WITH ELEVATOR
CONTRACTOR
(TYPICAL)

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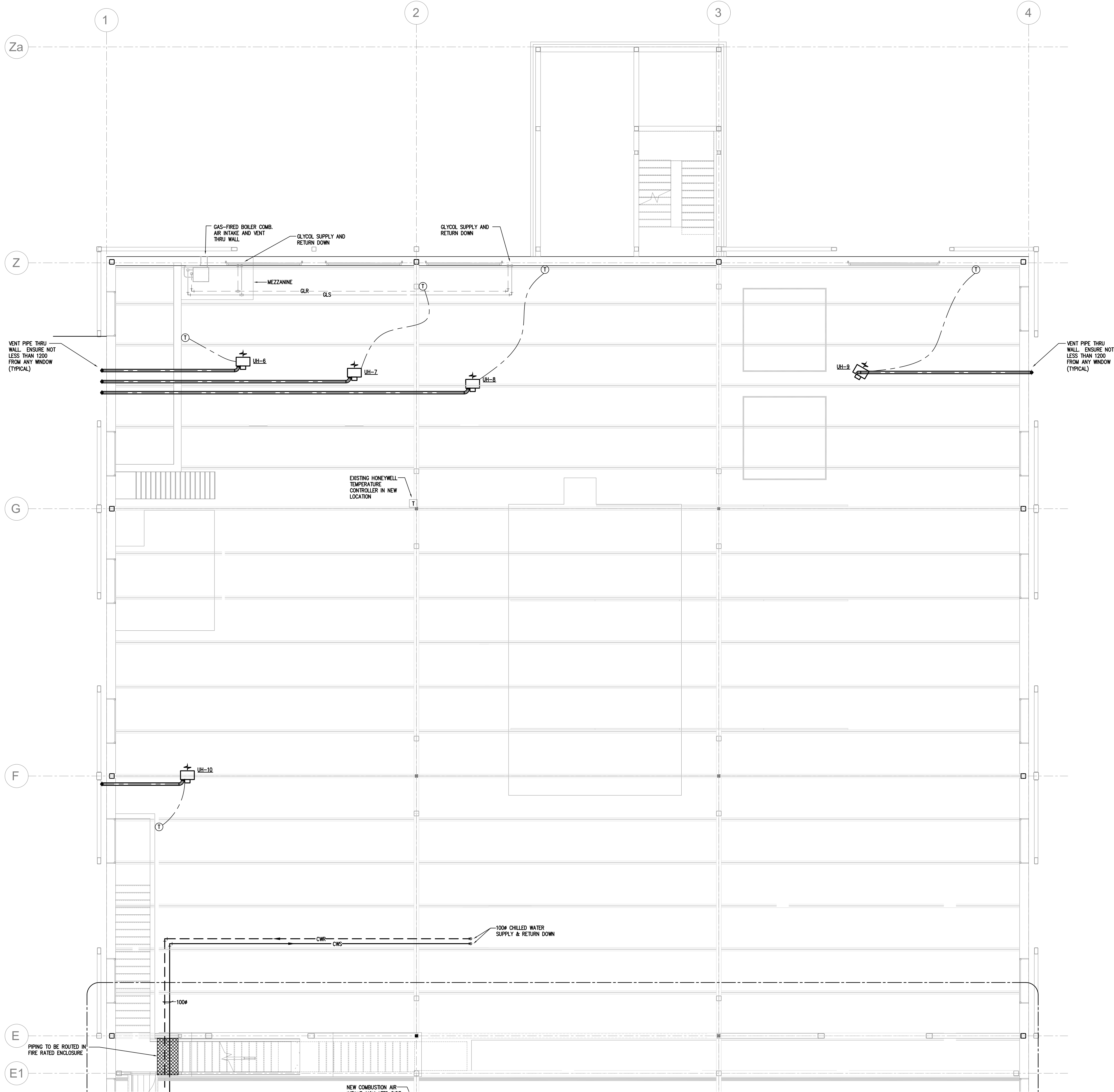
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Part 2nd Floor
North
Sprinklers - New Layout





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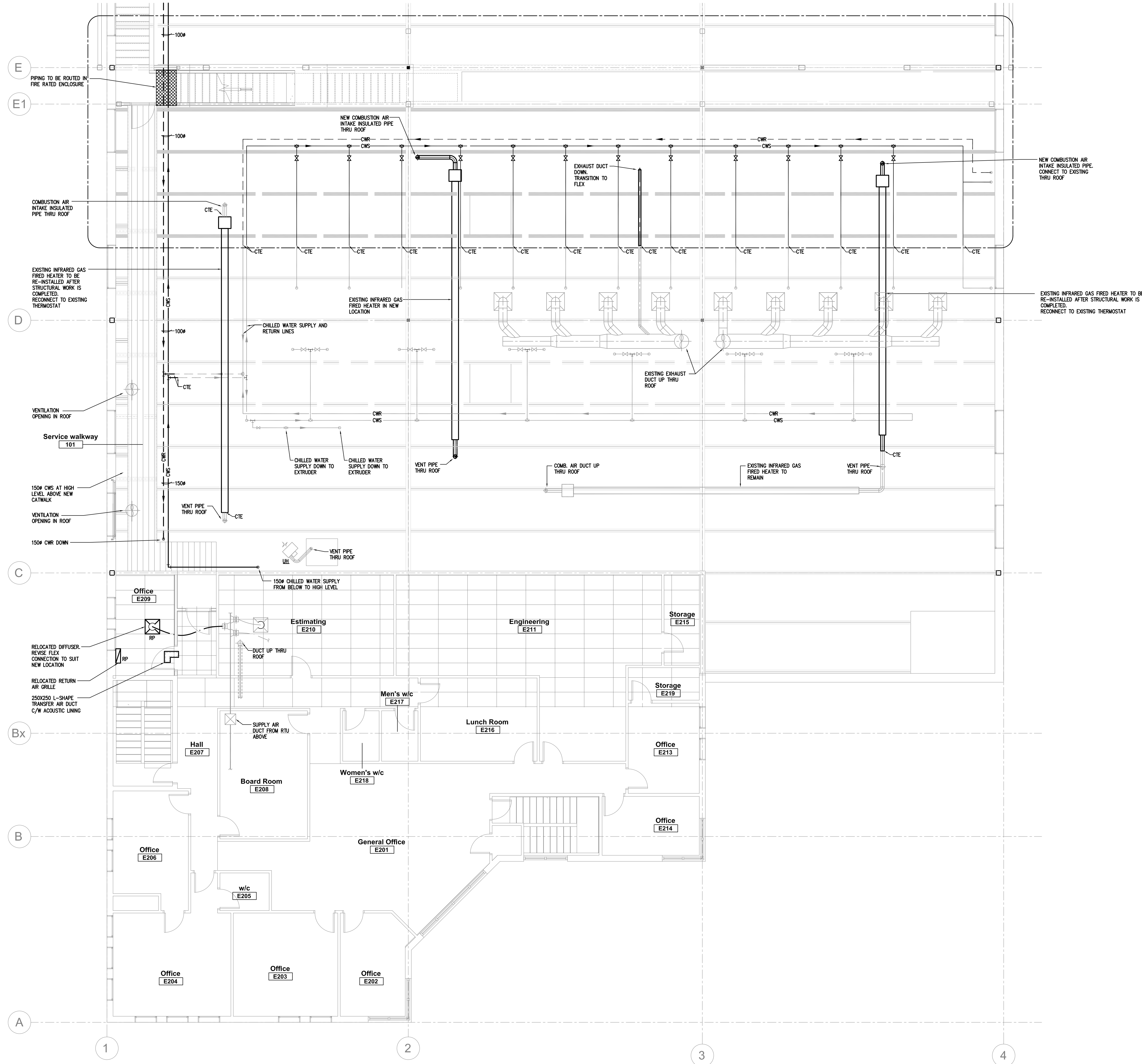
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Part Mezzanine Floor
North
HVAC - New Layout



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A circular professional engineer seal for the Province of Ontario. The outer ring contains the text "PROFESSIONAL ENGINEER" at the top and "LICENSED" at the bottom. The center of the seal features a stylized signature, "A. Prutkin", and the name "A. PRUTKIN" printed below it.

SPI PROJECT #: 2023-1010

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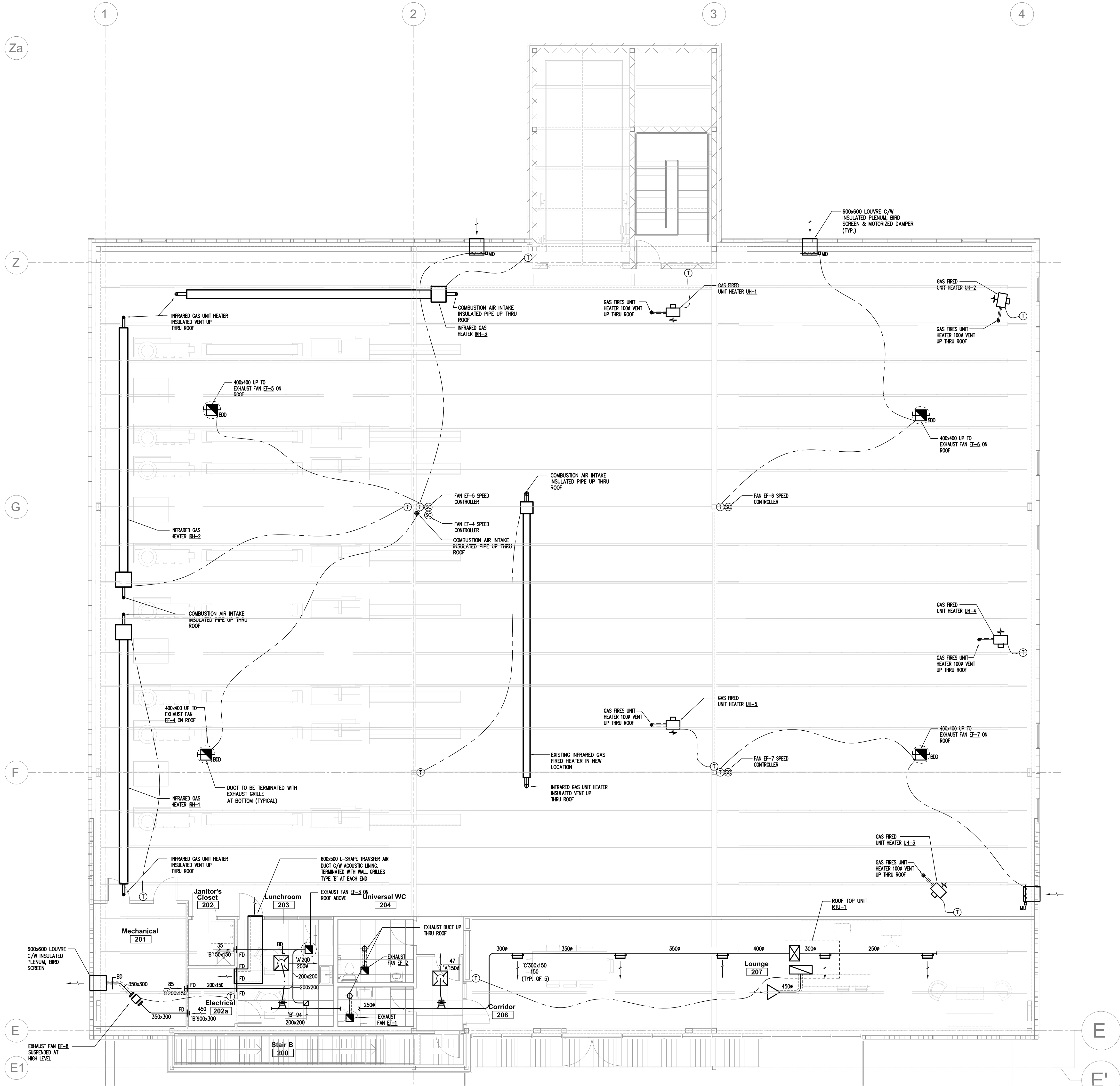
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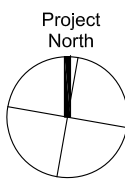
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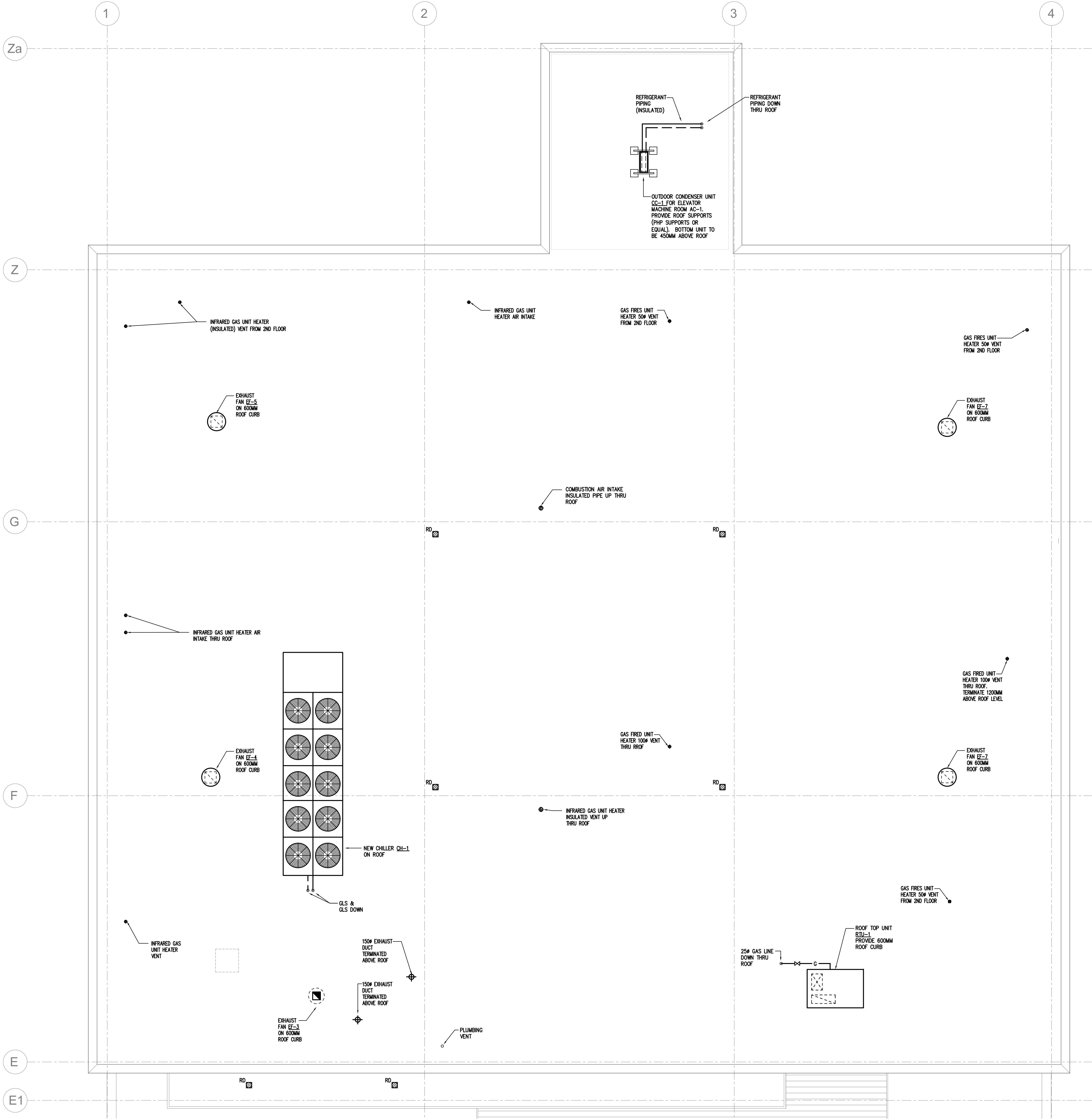
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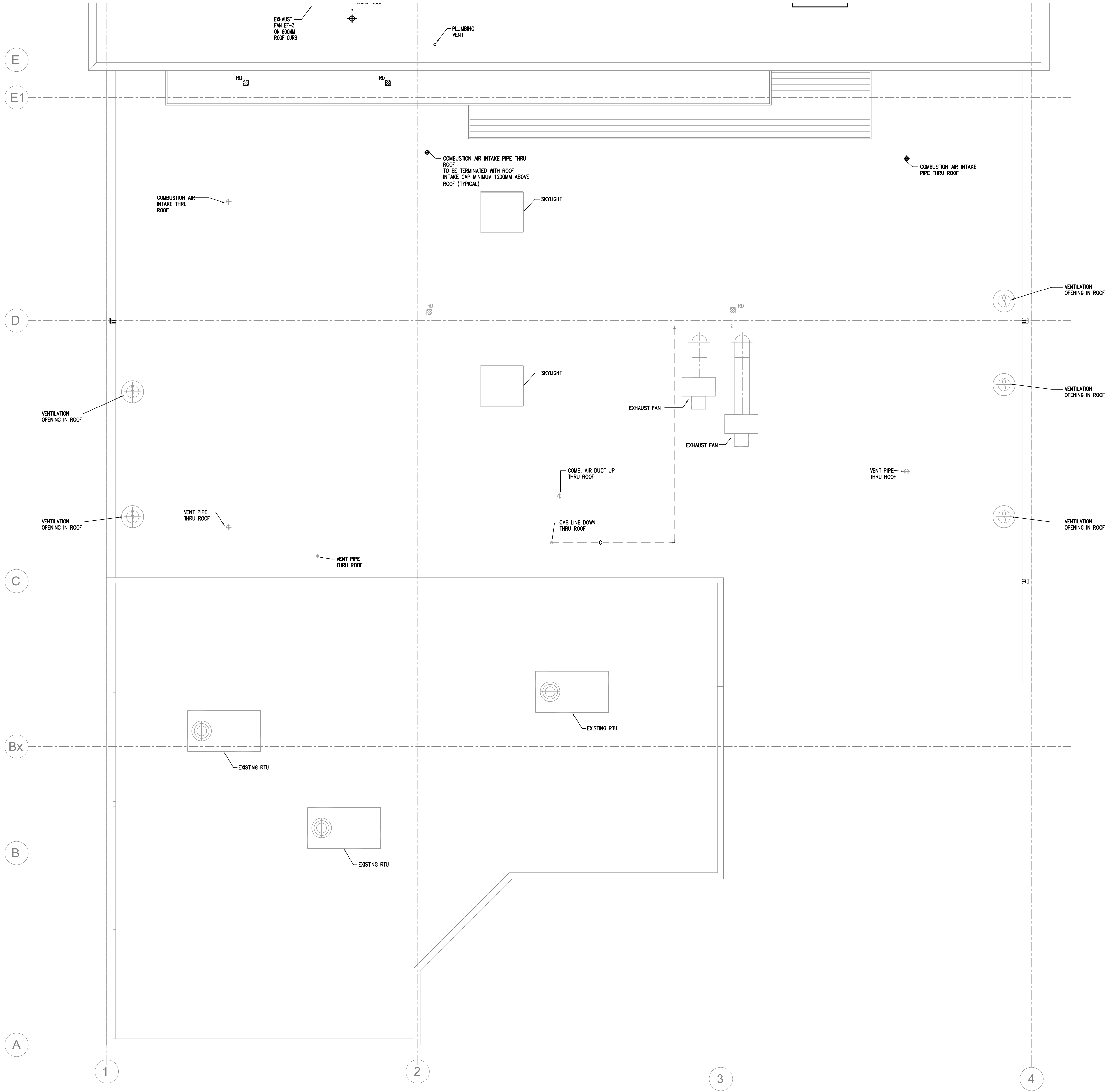
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Part Roof
North
HVAC - New Layout



drawing number
M5.1N





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ELECTRICAL LEGEND

POWER	
SYMBOL	DESCRIPTION
	125V, 15A DUPLEX U-GROUND RECEPTACLE UNLESS OTHERWISE NOTED.
	DUPLEX RECEPTACLE AS ABOVE, CSA 5-20A TYPE.
	SAME AS ABOVE EXCEPT CONNECT TO CONTROLLED CIRCUIT. RECEPTACLE SHALL BE GREY COLOUR.
	DOUBLE DUPLEX RECEPTACLE IN A COMMON COVER PLATE.
	125V, 15A SINGLE RECEPTACLE. VOLTAGE/AMPERAGE AND TYPE AS INDICATED.
	SPECIAL RECEPTACLE. VOLTAGE/AMPERAGE AND TYPE AS INDICATED.
	RECEPTABLES AS ABOVE BUT MOUNTED ABOVE COUNTER OR 42" AFF.
	RECEPTACLE AS ABOVE, SUBSCRIPTS DENOTE SPECIAL TYPE AS PER ABBREVIATION LIST.
	15A DUPLEX RECEPTACLE WITH TWO USB CHARGERS, MODEL TR5282USBSW BY LEGRAND OR APPROVED EQUAL
	1G DENOTES ISOLATED GROUND RECEPTACLE WITH DEDICATED GROUND WIRE AND SEPARATE CIRCUIT NEUTRAL.
	125V, 15A DUPLEX RECEPTACLE "SPLIT-WIRED" WITH EACH HALF ON SEPARATE CIRCUIT.
	125V, 15A FLOOR MOUNTED DUPLEX RECEPTACLE AS SPECIFIED.
	FLOOR MOUNTED RECEPTACLE, TEL/DATA AS SPECIFIED.
	125V, 15A CEILING MOUNTED DUPLEX RECEPTACLE AS SPECIFIED.
	FUSED DISCONNECT SWITCH. SIZE AS NOTE. (EG. 30A/3PSN WITH 20A FUSES)
	AS ABOVE BUT C/W TIME DELAY FUSES.
	BREAKER. SIZE AS NOTED.
	UNFUSED DISCONNECT SWITCH. SIZE TO SUIT OR AS NOTED. SEE ABBREVIATION FOR OTHER SUBSCRIPTS.
	MOTOR AS INDICATED. INCLUDE FINAL CONNECTION.
	COMBINATION LINE VOLTAGE MOTOR STARTER AND SWITCH.
	LINE VOLTAGE MOTOR STARTER. SEE SPECIFICATION FOR SCOPE OF WORK.
	JUNCTION BOX AS INDICATED.
	120V DIRECT CONNECTION FOR USE AS NOTED. INCLUDE FINAL CONNECTION. "PL" DENOTES FOR ELECTRONIC PLUMBING FIXTURES.
	SPECIAL DIRECT CONNECTION FOR USE AS NOTE. INCLUDE FINAL CONNECTION.
	WALL MOUNTED FEED TO SYSTEM FURNITURE. POWER AND COMMUNICATIONS RESPECTIVELY. PROVIDE CONNECTION TO FURNITURE.
	FLUSH OR SURFACE MOUNTED ELECTRICAL PANEL, RESPECTIVELY.
	ELECTRIC HEATER. BASEBOARD/FORCED-AIR RESPECTIVELY. TYPE AS INDICATED.
	TRANSIENT VOLTAGE SURGE SUPPRESSION
	ELECTRIC HEATER DESCRIPTION. LETTER DENOTES TYPE. NUMBER DENOTES WATTAGE.
	PUSHBUTTON FOR USE AS NOTED.
	KEY SWITCH
	EMERGENCY POWER-OFF PUSHBUTTON TO BE INTERLOCKED WITH ALL PANELBOARDS WITH THE SAME ROOM.
	CEILING FAN

LIGHTING	
SYMBOL	DESCRIPTION
	STRIP LIGHT IN COVE OR VALENCE. LENGTH SHOWN TO SCALE ON THE DRAWINGS. LETTER DENOTES TYPE.
	LUMINAIRE, CEILING OR WALL MOUNTED RESPECTIVELY. LETTER DENOTES TYPE.
	LUMINAIRE AS ABOVE BUT CONNECTED TO NIGHT LIGHT CIRCUIT.
	LUMINAIRE AS ABOVE BUT CONNECTED TO EMERGENCY OR NORMAL & EMERGENCY LIGHT CIRCUITS WITH BY-PASS UNIT – SEE SPEC FOR MORE DETAILS
	CEILING OR WALL MOUNTED LUMINAIRE RESPECTIVELY. LETTER DENOTES TYPE.
	LUMINAIRE AS ABOVE BUT CONNECTED TO NIGHT LIGHT CIRCUIT.
	LUMINAIRE AS ABOVE BUT CONNECTED TO EMERGENCY OR NORMAL & EMERGENCY LIGHT CIRCUITS WITH BY-PASS UNIT – SEE SPEC FOR MORE DETAILS
	CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN RESPECTIVELY. SINGLE OR DOUBLE FACED AS INDICATED BY FILLED IN PORTION(S) WITH ARROW(S) AS INDICATED.
	SURFACE MOUNTED SINGLE OF DOUBLE EMERGENCY LIGHTING REMOTE HEAD. CEILING OR WALL MOUNTED AS SHOWN.
	EMERGENCY BATTERY NIT "BU1" C/W LIGHTING HEAD(S) AS SHOWN ON PLAN.
	15A/20A 120V SINGLE POLE TOGGLE SWITCH(ES) WITH ONE, TWO OR THREE-GANG COVERPLATE RESPECTIVELY. SWITCHES RATING TO SUIT LIGHTING LOADS & BREAKER SIZE.
	SINGLE POLE LIGHT SWITCH(S), WITH ONE, TWO OR THREE-GANG COVERPLATE 15A, 347V UNLESS OTHERWISE NOTED.
	SWITCHES AS ABOVE. SUBSCRIPTS DENOTE 3-WAY OR 4-WAY. SEE ABBREVIATION FOR OTHER SUBSCRIPTS
	MASTER SWITCH FOR USE AS NOTED. LOW OR LINE VOLTAGE TO SUIT APPLICATION.
	KEY-SWITCH FOR USE AS NOTED. LOW OR LINE VOLTAGE TO SUIT APPLICATION.
	DIMMER. 120V OR 347V AND CAPACITY TO SUIT LOADS AND TYPE OF CONTROLS ON LIGHT FIXTURES .
	TIMESWITCH
	PHOTOCELL.
	OCCUPANCY SENSOR. CEILING MOUNTED OR WALL MOUNTED. SENSOR TO SUIT LIGHTING VOLTAGE
	OCCUPANCY SENSOR WITH DIMMER. SENSOR TO SUIT LIGHTING VOLTAGE

FIRE ALARM	
SYMBOL	DESCRIPTION
	FIRE ALARM HORN/STROBE COMBINATION. NUMBER DENOTES TYPE
	FIRE ALARM HORN
	FIRE ALARM MANUAL PULL STATION (WITH AND WITHOUT COVER).
	FIRE ALARM MINI HORN IN RESIDENT, SWITCH C/W 10 MINUTES SILENCEABLE SWITCH
	FIRE ALARM BELL
	FIRE ALARM BELL WITH INTEGRAL STROBE
	FIRE ALARM STROBE RECESSED IN CELING OR WALL MOUNTED
	RECESSED FIRE ALARM BELL OR HORN WITH BOX/ENCLOSURE AND CEILING GRILLE
	FIRE ALARM SMOKE DETECTOR
	SELF CONTAINED SMOKE DETECTOR (NOT CONNECTED TO FIRE ALARM SYSTEM)
	FIRE ALARM HEAT DETECTOR, COMBINATION FIXED TEMPERATURE AND RATE-OF-RISE.
	FIRE ALARM HEAT DETECTOR, FIXED TEMPERATURE (EG. 190°F)
	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR C/W REMOTE INDICATOR. S/A: SUPPLY R/A: RETURN
	SUPPLIED, INSTALLED AND WIRED TO FIRE ALARM SYSTEM BY DIV. 16.
	RECESSED OR SURFACE MOUNTED FIRE ALARM CONTROL PANEL/OR ANNUNCIATOR AS NOTED. FACP: FIRE ALARM CONTROL PANEL FAAP: FIRE ALARM ANNUNCIATOR PANEL
	FIRE PROTECTION SYSTEM SWITCH. SUPPLIED AND INSTALLED BY DIV. 15. WIRED TO FIRE ALARM SYSTEM BY DIV. 16. "FS" DENOTES FLOW SWITCH "SV" DENOTES SUPERVISED VALVE. "PS" DENOTES PRESSURE SWITCH.
	CEILING OR WALL MOUNTED FIRE ALARM SYSTEM SPEAKER
	CEILING OR WALL MOUNTED FIRE ALARM SYSTEM SPEAKER / STROBE LIGHT
	FIRE ALARM HANDSET. SEE SPECIFICATION
	MAGNETIC DOOR HOLD OPEN
	END OF LINE RESISTOR
	MODULES
	ISOLATION / ZONE MODULES
	FLOW SWITCH
	SUPERVISED VALVE

ABBREVIATIONS	
SYMBOL	DESCRIPTION
WP	WEATHERPROOF
GFI	GROUND FAULT INTERRUPTER
MD	MOTORIZED DAMPER
A-1	PANEL "A", CIRCUIT #1.
AUX.	AUXILIARY CONTACT
NIEC	NOT IN THIS ELECTRICAL CONTRACT.
WG	WIREGUARD
IRH	INFRARED HEATER
UH	UNIT HEATER
FFH	FORCED FLOW HEATER
BBH	BASEBOARD HEATER
HD	HAND DRYER
DO	DOOR OPERATOR
AFF	ABOVE FINISHED FLOOR
TL	TWIST-LOCK
N	NEW
ER	DENOTES EXISTING TO BE RELOCATED
EX	EXISTING TO REMAIN
R	EXISTING TO BE REMOVED
RP	RELOCATED POSITION
CL	CEILING MOUNTED
1D	ONE DATA OUTLET
1V	ONE VOICE OUTLET
	DETAIL #
	DRAWING WHERE DETAIL IS SHOWN.

COMMUNICATION / AV SYSTEM	
SYMBOL	DESCRIPTION
	TELEPHONE OUTLET (SEE RISER DIAGRAM WHERE APPLICABLE)
	DATA OUTLET (SEE RISER DIAGRAM WHERE APPLICABLE)
	COMBINATION TELEPHONE/DATA OUTLET.SEE RISER DIAGRAM FOR DETAIL
	OUTLET AS ABOVE BUT MOUNTED ABOVE COUNTER OR 42" AFF.
	FLOOR MOUNTED TELEPHONE, DATA OR COMBINATION AS SPECIFIED.
	SPEAKER (OTHER THAN FIRE ALARM) WITH OUTLET FOR WALL OR CEILING MOUNTED.
	CATV OUTLET. REFER TO SCOPE OF WORK.
	CEILING OR WALL MOUNTED WIRELESS ACCESS POINT
	INTERCOM STATION

SECURITY	
SYMBOL	DESCRIPTION
	SECURITY SYSTEM, DOOR CONTACT.
	SECURITY SYSTEM, CARD READER
	SECURITY SYSTEM, ELECTRIC STRIKE
	SECURITY SYSTEM, KEY PAD
	SECURITY SYSTEM, PANIC BUTTON
	SECURITY SYSTEM, REQUEST TO EXIT MOTION SENSOR
	SECURITY SYSTEM, MOTION SENSOR
	CCTV SYSTEM CAMERA
	DOOR BUZZER.

ELECTRICAL DRAWING LIST	
NUMBER	DESCRIPTION
E0.1	ELECTRICAL LEGEND, DRAWING LIST, NOTES AND SCHEDULES
E0.2	PANELS SCHEDULES
E0.3	SINGLE LINE DIAGRAM – EXISTING
E0.4	SINGLE LINE DIAGRAM – NEW
E0.5	ELECTRICAL DETAILS
E1.1S	PART GROUND FLOOR SOUTH ELECTRICAL DEMOLITION
E1.1N	PART GROUND FLOOR NORTH ELECTRICAL DEMOLITION
E1.2S	PART MEZZANINE FLOOR SOUTH ELECTRICAL DEMOLITION
E1.2N	PART MEZZANINE FLOOR NORTH ELECTRICAL DEMOLITION
E2.1S	PART GROUND FLOOR SOUTH LIGHTING – NEW LAYOUT
E2.1N	PART GROUND FLOOR NORTH LIGHTING – NEW LAYOUT
E2.2S	PART MEZZANINE FLOOR SOUTH LIGHTING – NEW LAYOUT
E2.2N	PART MEZZANINE LEVEL NORTH LIGHTING – NEW LAYOUT
E2.3N	PART 2ND FLOOR NORTH LIGHTING – NEW LAYOUT
E3.1S	PART GROUND FLOOR SOUTH POWER – NEW LAYOUT
E3.1N	PART GROUND FLOOR NORTH POWER – NEW LAYOUT
E3.2S	PART MEZZANINE FLOOR NORTH POWER – NEW LAYOUT
E3.2N	PART MEZZANINE FLOOR NORTH POWER – NEW LAYOUT
E3.3N	PART 2ND FLOOR NORTH POWER – NEW LAYOUT
E3.4N	PART ROOF NORTH POWER – NEW LAYOUT

GENERAL NOTES:	
1. EXTRUSION LINES INSTALLATION:	
FINAL INSTALLATION, FINAL CONNECTIONS OF SERVICES AND COMMISSIONING OF EXTRUSION LINES WILL BE DONE BY ACCORD TEAM	
THIS CONTRACTOR TO PROVIDE CAPPED CONNECTIONS OF ALL SERVICES TO EXTRUSION LINES FOR FUTURE FINAL CONNECTIONS BY ACCORD TEAM.	
LOCATIONS OF SERVICES ARE SHOWN DIAGRAMMATICALLY ONLY. EXACT LOCATION OF DRAIN, WATER SUPPLY, COMPRESSED AIR ETC. TO BE COORDINATED WITH ACCORD.	
2. EXISTING EQUIPMENT, SERVICES, PIPING LAYOUT AND SIZES ARE SHOWN DIAGRAMMATICAL AND FOR REFERENCE ONLY. THIS CONTRACTOR TO INCLUDE FOR SITE INVESTIGATION TO CONFIRM ALL SERVICES THAT WILL BE AFFECT BY THIS PROJECT.	
THE 3D SCAN OF THE SPACE IS AVAILABLE TO CONTRACTORS FOR INFORMATION.	
FIREPROOFING OF ROOF DECK	
FOR MORE DETAILS ON EXTEND OF FIREPROOFING AT ROOF DECK REFER TO ARCHITECTURAL DRAWINGS	
EXISTING SERVICES THAT ARE ATTACHED TO ROOF DECK TO BE REMOVED AND RE-INSTAALAED AFTER FIREPROOFING IS COMPLETED.	
SMALL SERVICES SUCH AS FASTENED SMALL CONDUTS/JUNCTION BOXES, PIPING AND DUCTWORK HANGERS SUSPENDED FROM ROOF DECK CAN REMAIN AND TO BE ENCAPSULATE IN FIREPROOFING.	
4. PRIOR TO ANY WORK PROVIDE SITE INVESTIGATION TO IDENTIFY ALL POWER SOURCES, SERVICE/BREAKER/FUSE SIZE AND WIRING SIZE FOR ALL EQUIPMENT AND DEVICES IDENTIFIED TO BE REMOVED, REPLACED OR RELOCATED. REPORT BACK TO CONSULTANTS TEAM IF THERE ARE ANY DISCREPANCIES.	

SEQUENCING PLAN	
PLANT WILL BE OPERATIONAL DURING CONSTRUCTION. THIS CONTRACTOR TO COORDINATE WITH THE CLIENT FOR ANY SHUT DOWN IN ADVANCE.	
REVISIONS TO EXISTING SERVICES THAT WILL RESULT IN INTERRUPTION OF PRODUCTION MUST BE PERFORMED AFTER HOURS OR ON WEEKENDS.	
THE FOLLOWING IS PROPOSED SEQUENCING PLAN FOR CHILLED WATER SYSTEM:	
PROVISION OF CHILLED WATER AS REQUIRED FOR OWNER'S PRODUCTION OPERATIONS SHALL BE MAINTAINED AT ALL TIMES DURING THE WORK	
EXISTING 50TON CHILLER TO BE RELOCATED AS NECESSARY TO CARRY OUT WORK, EXACT LOCATION TO BE COORDINATED ON SITE WITH OWNER. AT CONCLUSION OF PROJECT, 50TON CHILLER SHALL REMAIN ON SITE FOR BACKUP/REDUNDANCY	
EXISTING 70TON CHILLER AND ASSOCIATED PUMPS ARE LOCATED ON/BELOW EXISTING MEZZANINE SCHEDULED FOR DEMOLITION. WORK TO BE SEQUENCED AS REQUIRED TO ALLOW 70TON CHILLER TO SUPPORT OWNER'S PRODUCTION OPERATIONS UNTIL SWITCHOVER TO NEW SYSTEM	
EXISTING BELOW SLAB WATER CHAMBER TO REMAIN FUNCTIONAL UNTIL NEW BELOW SLAB WATER CHAMBER IS CONSTRUCTED/COMMISSIONED. COORDINATE UNDERSLAB PIPING BETWEEN EXISTING WATER CHAMBER AND NEW AS REQUIRED.	
EXISTING ROOFTOP/OUTDOOR CONDENSER IS REQUIRED TO REMAIN OPERATIONAL UNTIL SWITCHOVER TO NEW CONDENSER. CONTRACTOR TO ALLOW FOR APPROPRIATE WORKING CLEARANCES AS REQUIRED WHEN CARRYING OUT 2ND FLOOR WORK.	
ONCE NEW SYSTEM HAS BEEN COMMISSIONED, DEMOLISH ALL REDUNDANT EQUIPMENT/INFRASTRUCTURE	

EMERGENCY BATTERY UNIT SPECIFICATIONS	
BATTERY UNITS	
BATTERY UNIT SHALL BE LUMACELL CAT. #R624S SERIES WITH CAPACITY AS INDICATED ON DRAWING (OR 720WH) AND EQUAL BY EMEROLITE, DUALITE OR BECHELLI UNITS SHALL BE FOR OPERATION ON 120 VOLT – 10 YEARS LIFE BATTERY – WITH NUMBER OF HEADS INDICATED ON THE DRAWINGS. UNITS SHALL BE PLUG-IN TYPE WITH SEALED PURE LEAD BATTERIES. THE CHARGER SHALL BE COMPLETELY AUTOMATIC, SOLID STATE TYPE BROWN OUT FEATURE, CAPABLE OF FULLY RECHARGING DISCHARGED BATTERY IN 24 HOURS. TRANSFER DEVICE SHALL AUTOMATICALLY SWITCH LOAD ON AT POWER FAILURE AND OFF ON RETURN OF NORMAL POWER. UNITS SHALL HAVE LOW VOLTAGE DISCONNECT FEATURE. PROVIDE DUPLEX POWER OUTLET FOR EACH BATTERY UNIT.	
REMOTE HEADS 'DC'	
1. SINGLE AND DOUBLE REMOTE HEADS SHALL BE MR16, 24V, 6W, LED LAMPS EMERGENCY LIGHTING REMOTE HEADS SHALL BE WHITE. LUMACELL CAT. #MOM SERIES OR APPROVED EQUAL.	
2. WP – SINGLE AND DOUBLE REMOTE HEADS SHALL BE MR16 24V, DC 12W, EMERGENCY LIGHTING REMOTE HEADS SHALL BE WHITE. WEATHER-PROOF. LUMACELL CAT. #0-BIC SERIES OR APPROVED EQUAL.	
EXIT SIGN 'X'	
SINGLE FACE OR DOUBLE FACE AS PER DRAWING. UNIVERSAL MOUNTED LED SIGN, GREEN RUNNING MAN PICTOGRAM. ALUMINUM HOUSING, LESS THAN 3W LED, 120VAC & 24VDC INPUT. GREEN MAN ON WHITE FACE.	
LUMACELL CAT.# LA SERIES OR APPROVED EQUAL	

HAND DRYER SPECIFICATIONS	
HAND DRYERS SHALL BE PROVIDED BY THIS ELECTRICAL CONTRACTOR. DRYERS TO BE HIGH SPEED AUTOMATIC SURFACE MOUNTED WITH STAINLESS STEEL BRUSHED FINISH COVER. DRYER TO INCLUDE REPLACEABLE HEPA FILTER. WALL MOUNTED PLATE SHALL BE CONSTRUCTED OF DIE-CAST ALUMINUM FINISHED WITH CHROME PLATING. S.S. COVER SHALL BE ATTACHED TO WALL PLATE WITH TAMPER-PROOF SCREWS. INFRARED SENSOR FOR "NO TOUCH" OPERATION, AND WITH 5 YEAR LIMITED PARTS WARRANTY (2 YEARS FOR SENSOR).	
POWER: 1400W (HOT), 550w (COLD), 120V-1PH-60HZ,	
UL APPROVED COMMERCIAL HIGH SPEED HAND DRYER WITH HEPA FILTER	
BRAND: JETWELL	
MANUFACTURER: JETWELL LLC	
MANUFACTURER PART NUMBER: JW2902	
FINISH: STAINLESS STEEL POLISHED	
MOUNT BOTTOM OF DRYER AT 840MM IN HANDICAP WASHROOM AND 1100MM AFF IN OTHER WASHROOMS (CONFIRM WITH ARCHITECTURAL DRAWINGS FOR ELEVATION)	

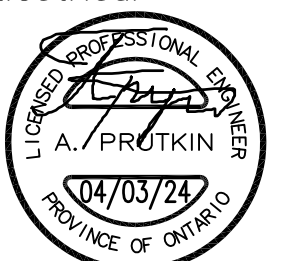
ELECTRIC HEATER SCHEDULE	
TYPE	DESCRIPTION
	208V, 1PH HEAVY DUTY ELECTRIC BASEBOARD HEATER WHITE FINISH C/W TEMPER-PROOF BUILT-IN THERMOSTAT (OR REMOTE THERMOSTAT – REFER TO DRAWINGS). KILOWATTAGE AS INDICATED ON DRAWING. OUELLET CAT.# OPR SERIES OR APPROVED EQUAL.
	208V, 1PH ELECTRIC FORCED-AIR HEATER, WHITE FINISH C/W BUILT-IN THERMOSTAT (OR REMOTE THERMOSTAT – REFER TO DRAWINGS). KILOWATTAGE AS INDICATED ON DRAWING. OUELLET CAT.# OAC SERIES OR APPROVED EQUAL.
	208V, 1PH SUSPENDED ELECTRIC UNIT HEATER WITH REMOTE THERMOSTAT. KILOWATTAGE AS INDICATED ON DRAWING. OUELLET CAT.# OAS SERIES OR APPROVED EQUAL.
NOTES:	
ALL HEATERS TO BE PROVIDED WITH TEMPER PROOF SCREWS	

LUMINAIRE SCHEDULE	
TYPE L1	TYPE L6
HIGH PERFORMANCE LED HIGH-BAY III, PENDENT LIGHT FIXTURES PROVIDE PENDENT HANGERS PHB-III-PH. LENGTH TO HANGERS TO BE SUITABLE FOR FIXTURES ELEVATION OF 3.8M A.F.F. (EXACT ELEVATION TO BE CONFIRMED ON SITE)	6" ROUND RECESSED LED LIGHTS
VOLTAGE: 347V, 165W, (0-10V) 1% DIMMING DRIVER	VOLTAGE: 120V, 17W, (0-10V) 1% DIMMING DRIVER
FINISH: WHITE, POLYSTYRENE (PS) LENS	FINISH: MATTE WHITE
LAMP: LED, 4000K, 22,747LM	LAMP: LED, 3500K, 90+CRI, 1,500LM
MANUFACTURER: EE LIGHTING, CAT.# CDFP-65R6-3WS OR APPROVED EQUAL	MANUFACTURER: EE LIGHTING, CAT.# CDFP-65R6-3WS OR APPROVED EQUAL
TYPE L2	TYPE L7
8FT LONG SUSPENDED, FLEX STREAM 2 SERIES, MOUNTINGS HEIGHT BETWEEN 3M AND 3.6M A.F.F.. EXACT ELEVATION TO BE COORDINATED WITH CLIENT	2x2 RECESSED IN T-BAR CEILING FLAT PANEL LIGHTS
VOLTAGE: 347V, 82W, (0-10V) 1% DIMMING DRIVER	VOLTAGE: 120V, 25W, (0-10V) 1% DIMMING DRIVER
FINISH: WHITE, WITH PROTECTIVE WIRE GUARD	FINISH: WHITE
LAMP: LED, 4000K, 80+CRI, 11,914LM	LAMP: LED, 3500K, 80+CRI, 3,400LM
MANUFACTURER: EE LIGHTING, CAT.# FS2-8-7664 (FS8-80LED08-120M347-40KP2) OR APPROVED EQUAL	MANUFACTURER: EE LIGHTING, CAT.# PL-F871-22-3WS MW OR APPROVED EQUAL
TYPE L3	TYPE AA (OUTDOOR)
4FT LONG SUSPENDED AND SURFACE MOUNTED LED STRIP LIGHTS	LED WALL PACK
VOLTAGE: 120-347V, 44W, (0-10V) 1% DIMMING DRIVER	VOLTAGE: 120-347V, 35W, (3 WATTAGE SELECTABLE FIXTURE)
FINISH: WHITE, WITH PROTECTIVE WIRE GUARD IN MECH. & ELEC. ROOMS	FINISH: BRONZE
LAMP: LED, 4000K, 80+CRI, 5,930LM	LAMP: LED, 4000K, 80+CRI, 4,550 LM
MANUFACTURER: EE LIGHTING, CAT.# SLD-4-4WS44-3CCTA OR APPROVED EQUAL	MANUFACTURE: EE LIGHTING, CAT.#WPA2-5303-3WS BZ OR APPROVED EQUAL
TYPE L4	TYPE BB (OUTDOOR)
4FT LONG SURFACE MOUNTED LED LINEAR ARCHITECTURAL PRISM LIGHTS	SURFACE MOUNTED, 3FT LONG LED LINEAR LIGHT FIXTURE, WET LISTED
VOLTAGE: 120-347V, 40W, (0-10V) 1% DIMMING DRIVER	VOLTAGE: 120V, 1% (0-10V) DIMMING
FINISH: TEXTURED WHITE	FINISH: ALUMINUM
LAMP: LED, 4000K, 80+CRI, 1,150LM	LAMP: LED, 4000K, 80+CRI, 3,000 LM (HIGH OUTPUT)
MANUFACTURER: EE LIGHTING, CAT.# LAP2-4474 TEXTURED WHITE + A2103 UML-4K OR APPROVED EQUAL	MANUFACTURE: LUMENWEXR, CAT.#WVSEALS-D-WETL-EPD0-SW OR APPROVED EQUAL
TYPE L5	
2x4 SUSPENDED LED FLAT PANEL LIGHTS	
VOLTAGE: 120V, 45W, (0-10V) 1% DIMMING DRIVER	
FINISH: WHITE	
LAMP: LED, 3500K, 80+CRI, 5,744LM	
MANUFACTURER: EE LIGHTING, CAT.# PL-F871-24-3WS MW+ A2111 MKSUS OR APPROVED EQUAL	

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Rev	Description	Date
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2	Issued for 75% Progress	17/11/2023
3	Issued for Permit	16/02/2024
4	Issued for Tender	04/03/2024

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SEI PROJECT # : 2023-1010

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PROJECT CODE:	SCALE:
22_31	N.T.S.
DATE:	STATUS:
March 4, 2024	Issued for Tender

Electrical Legend, Drawing List, Notes and Schedules

PANEL '1N'		TYPE: MAINS: MOUNTING:		BOLT-ON 400 AMPS RECESSED		LOCATION: GROUND FLOOR SOUTH	
LOAD	DESCRIPTION	BREAKER	CIRCUITS	BREAKER	DESCRIPTION	LOAD	
(2)	EXISTING SPLITTER #2	60A	1	2	100A	EXISTING 50T CHILLER	(1)
		3P	3	4			
			5	6	3P		
		30A	7	8	30A		
	EXISTING VACUUM PUMP		9	10			
		3P	11	12	3P		
	SPARE	20A	13	14	20A		
	SPACE		15	16	15A		
		35A	17	18	35A		
	CHILLED WATER RETURN PUMP P-11 & P-12	3P	19	20			
			21	22	3P	CHILLED WATER SUPPLY PUMP P-13 & P-14	2x7.5HP
	SPACE		23	24			
	SPACE		25	26			
	SPACE		27	28			
	SPACE		29	30			
	SPACE		31	32			
	SPACE		33	34			
	SPACE		35	36			
	SPACE		37	38			
	SPACE		39	40			
	SPACE		41	42			
NOTE: TO BE C/W BUILT-IN MOLDED CASE MAIN SWITCH RATED AT 50KA INTERRUPTING CURRENT (1) BREAKER WITH ADJUSTABLE TRIP UNIT. SET TO 85A (2) BREAKER WITH ADJUSTABLE TRIP UNIT							

PANEL '2P'		TYPE: MAINS: MOUNTING:		BOLT-ON 225 AMPS RECESSED MOUNTED		LOCATION: 2ND FLOOR CORRIDOR	
LOAD	DESCRIPTION	BREAKER	CIRCUITS	BREAKER	DESCRIPTION	LOAD	
	UNIT HEATERS UH-2, UH-4, UH-3	15A	1	2	15A	UNIT HEATERS UH-1 & UH-5	4.5KW
		15A	3	4	30A		
	BASEBOARD HEATERS	2P	5	6	2P	BASEBOARD HEATERS	
	SPACE		7	8	15A		
	LIGHTS	20A	9	10	2P	BASEBOARD HEATER	
	MOTORIZED DAMPERS	15A	11	12	15A	MECHANICAL CONTROLS	
	LIGHTS	20A	13	14	20A	LIGHTS	
	WC EXHAUST FAN EF-1 & EF-2	15A	15	16	15A	DOOR OPERATOR	
	BATTERY UNIT BU-2 & BU-3	15A	17	18	15A	BATTERY UNIT BU-4 & BU-5	
	LUNCH RM EXHAUST FAN EF-3	15A	19	20	15A	ELEC. ROOM EXHAUST FAN EF-8	1/4HP
720	HAND DRYER (UNIV. WASHROOM)	20A	21	22	20A	HAND DRYER (WASHROOM)	1.4KW
	FRIDGE, LUNCH ROOM	15A	23	24	20A	COUNTER RECEPTACLE, LUNCH ROOM	
	MICROWAVE, LUNCH ROOM	20A	25	26	20A	COUNTER RECEPTACLE, LUNCH ROOM	
	CONVENIENCE RECEPTACLE	20A	27	28	20A	CONVENIENCE RECEPTACLE	
	GENERAL EXHAUST FAN EF-4	25A	29	30	25A	GENERAL EXHAUST FAN EF-6	1HP
	GENERAL EXHAUST FAN EF-5	25A	31	32	25A	GENERAL EXHAUST FAN EF-7	1HP
	1.5KW DHWT-1	20A	33	34	20A	OUTDOOR RECEPTACLE ON ROOF	
		15A	35	36	15A		
	BASEBOARD HEATERS	2P	37	38	2P	ELEC. UNIT HEATER	1.5KW
	BATTERY UNIT BU-1	15A	39	40	15A	EXIT SIGNS	
720	CONTROL PANEL FOR P-17 & P-18	15A	41	42	15A	CONTROL PANEL FOR P-15 & P-16	
	INFRARED HEATER IRH-1 & IRH-2	15A	43	44	15A	INFRARED HEATER IRH-3	
			45	46			
			47	48			
			49	50			
			51	52			
			53	54			
			55	56			
			57	58			
			59	60			
NOTE: TO BE C/W BUILT-IN MOLDED CASE MAIN SWITCH RATED AT 50KA INTERRUPTING CURRENT							

PANEL '1P'		TYPE: MAINS: MOUNTING:		BOLT-ON 125 AMPS SURFACE MOUNTED		LOCATION: GROUND FLOOR NORTH	
LOAD	DESCRIPTION	BREAKER	CIRCUITS	BREAKER	DESCRIPTION	LOAD	
	CONDENSING UNIT CC-1	15A	1	2	25A	FORCED FLOW HEATER	4.0KW
		2P	3	4	2P		
	UNIT HEATER UH-10	15A	5	6	20A	OUTDOOR RECEPTACLE ON ROOF	
	BASEBOARD HEATER	15A	7	8	15A	BASEBOARD HEATER	1.0KW
		2P	9	10	2P		
	SUBMERSIBLE SUMP PUMP P-19, GFI	15A	11	12	15A	PUMP P-19 CONTROL PANEL	
	ELEVATOR CONTROL PANEL	15A	13	14	15A	ELEVATOR LIGHTING	
	SPARE	15A	15	16	15A	SPARE	
	LIGHTS	20A	17	18	20A	LIGHTS	
	EXIT SIGNS	15A	19	20	15A	SPARE	
	SPACE		21	22		SPACE	
	SPACE		23	24		SPACE	
	SPACE		25	26		SPACE	
	SPACE		27	28		SPACE	
	SPACE		29	30		SPACE	
	SPACE		31	32		SPACE	
	SPACE		33	34		SPACE	
	SPACE		35	36		SPACE	
	SPACE		37	38		SPACE	
	SPACE		39	40		SPACE	
	SPACE		41	42		SPACE	
NOTE: TO BE C/W BUILT-IN MOLDED CASE MAIN SWITCH RATED AT 50KA INTERRUPTING CURRENT							

PANEL 'AA' (TAB #1)		TYPE: MAINS: MOUNTING:		BOLT-ON 800 AMPS SURFACE MOUNTED		LOCATION: 2ND FLOOR ELECTRICAL ROOM	
LOAD	DESCRIPTION	BREAKER	CIRCUITS	BREAKER	DESCRIPTION	LOAD	
60HP	ELEVATOR	175A	1	2	15A	AIR DRYER	
		3P	3	4			
			5	6	3P		
			7	8	20A		
	TRANSFORMER TX-1		9	10			
		3P	11	12	3P		
	LIGHTS	20A	13	14	20A		
	LIGHTS	20A	15	16	20A		
		250A	17	18			
	CHILLER CH-1	3P	19	20			
			21	22		TRANSFORMER TX-2	
		35A	23	24	40A		
	GLYCOL PUMP P-15 & P-16	3P	25	26		VACUUM PUMP P-17 & 18	2x10HP
			27	28	3P		
	SPACE		29	30	100A		
	SPACE		31	32		COMPRESSOR #1	75HP
	SPACE		33	34	3P		
	LIGHTS	20A	35	36	20A	LIGHTS	
	SPACE		37	38			
	SPACE		39	40		SPACE	
	SPACE		41	42		SPACE	
	SPACE		43	44		SPACE	
	SPACE		45	46		SPACE	
	SPACE		47	48		SPACE	
	SPACE		49	50		SPACE	
	SPACE		51	52		SPACE	
	SPACE		53	54		SPACE	
	SPACE		55	56		SPACE	
	SPACE		57	58		SPACE	
	SPACE		59	60		SPACE	
NOTE: TO BE C/W BUILT-IN MOLDED CASE MAIN SWITCH RATED AT 50KA INTERRUPTING CURRENT (1) BREAKER WITH ADJUSTABLE TRIP UNIT. SET TO 175A (2) BREAKER WITH ADJUSTABLE TRIP UNIT.							

PANEL 'AA' (TAB #3)		TYPE: MAINS: MOUNTING:		BOLT-ON 800 AMPS SURFACE MOUNTED		LOCATION: 2ND FLOOR ELECTRICAL ROOM	
LOAD	DESCRIPTION	BREAKER	CIRCUITS	BREAKER	DESCRIPTION	LOAD	
(1)	EXTRUDER LINE #5	100A	121	122	100A	EXTRUDER LINE #6	(1)
			123	124			
		3P	125	126	3P		
		30A	127	128	30A	EXTRUDER LINE #6	
	EXTRUDER LINE #5		129	130			
		3P	131	132	3P		
		30A	133	134	30A		
			135	136		EXTRUDER LINE #6	
		3P	137	138	3P		
		30A	139	140	30A	EXTRUDER LINE #6	
(1)	EXTRUDER LINE #5		141	142			
		3P	143	144	3P		
		30A	145	146	30A	EXTRUDER LINE #6	
			147	148			
		3P	149	150	3P		
		200A	151	152	200A		
	EXTRUDER LINE #7		153	154		EXTRUDER LINE #8	
		3P	155	156	3P		
		30A	157	158	30A		
	EXTRUDER LINE #7		159	160		EXTRUDER LINE #8	
(1)		3P	161	162	3P		
		30A	163	164	30A		
	EXTRUDER LINE #7		165	166		EXTRUDER LINE #8	
		3P	167	168	3P		
		30A	169	170	30A		
			171	172		EXTRUDER LINE #8	
	EXTRUDER LINE #7		173	174	3P		
		30A	175	176	30A		
			177	178		EXTRUDER LINE #8	
	EXTRUDER LINE #7		179	180	3P		
NOTE: (1) BREAKER WILL BE PROVIDED BY ACCORD TEAM OUTSIDE OF THIS PROJECT. BREAKER SIZES ARE SHOWN FOR REFERENCE ONLY TO ALLOW FOR ADEQUATE SPACE IN THE PANEL.							

PANEL 'AA' (TAB #3)		TYPE: MAINS: MOUNTING:		BOLT-ON 800 AMPS SURFACE MOUNTED		LOCATION: 2ND FLOOR ELECTRICAL ROOM	
LOAD	DESCRIPTION	BREAKER	CIRCUITS	BREAKER	DESCRIPTION	LOAD	
(1)	EXTRUDER LINE #1	100A	61	62	100A	EXTRUDER LINE #2	(1)
			63	64			
		3P	65	66	3P		
		30A	67	68	30A	EXTRUDER LINE #2	(1)
	EXTRUDER LINE #1		69	70			
		3P	71	72	3P		
		30A	73	74	30A	EXTRUDER LINE #2	(1)
			75	76			
		3P	77	78	3P		
		30A	79	80	30A	EXTRUDER LINE #2	(1)
(1)	EXTRUDER LINE #1		81	82			
		3P	83	84	3P		
		30A	85	86	30A	EXTRUDER LINE #2	(1)
	EXTRUDER LINE #1		87	88			
		3P	89	90	3P		
		200A	91	92	200A		
	EXTRUDER LINE #3		93	94		EXTRUDER LINE #4	(1)
		3P	95	96	3P		
		30A	97	98	30A		
	EXTRUDER LINE #3		99	100		EXTRUDER LINE #4	(1)
(1)		3P	101	102	3P		
		30A	103	104	30A		
	EXTRUDER LINE #3		105	106		EXTRUDER LINE #4	(1)
		3P	107	108	3P		
		30A	109	110	30A		
	EXTRUDER LINE #3		111	112		EXTRUDER LINE #4	(1)
		3P	113	114	3P		
		30A	115	116	30A		
	EXTRUDER LINE #3		117	118		EXTRUDER LINE #4	(1)
		3P	119	120	3P		
NOTE: (1) BREAKER WILL BE PROVIDED BY ACCORD TEAM OUTSIDE OF THIS PROJECT. BREAKER SIZES ARE SHOWN FOR REFERENCE ONLY TO ALLOW FOR ADEQUATE SPACE IN THE PANEL.							

PANEL '2B'		TYPE: MAINS: MOUNTING:		BOLT-ON 600 AMPS SURFACE MOUNTED		LOCATION: 2ND FLOOR ELECTRICAL ROOM	
LOAD	DESCRIPTION	BREAKER	CIRCUITS	BREAKER	DESCRIPTION	LOAD	
	EXTRUDER LINE #1	15A	1	2	15A	EXTRUDER LINE #2	
	EXTRUDER LINE #1	15A	3	4	15A	EXTRUDER LINE #2	
	EXTRUDER LINE #1	20A	5	6	20A	EXTRUDER LINE #2	
	EXTRUDER LINE #1	15A	7	8	15A	EXTRUDER LINE #2	
		20A	9	10	20A		
	EXTRUDER LINE #1	11	12			EXTRUDER LINE #2	
		3P	13	14	3P		
	EXTRUDER LINE #3	15A	15	16	15A	EXTRUDER LINE #4	
	EXTRUDER LINE #3	15A	17	18	15A	EXTRUDER LINE #4	
	EXTRUDER LINE #3	20A	19	20	20A	EXTRUDER LINE #4	
	EXTRUDER LINE #3	15A	21	22	15A	EXTRUDER LINE #4	
		20A	23	24	20A		
	EXTRUDER LINE #3	25	26			EXTRUDER LINE #4	
		3P	27	28	3P		
	EXTRUDER LINE #5	15A	29	30	15A	EXTRUDER LINE #6	
	EXTRUDER LINE #5	15A	31	32	15A	EXTRUDER LINE #6	
	EXTRUDER LINE #5	20A	33	34	20A	EXTRUDER LINE #6	
	EXTRUDER LINE #5	15A	35	36	15A	EXTRUDER LINE #6	
		20A	37	38	20A		
	EXTRUDER LINE #5	39	40			EXTRUDER LINE #6	
		3P	41	42	3P		
	EXTRUDER LINE #7	15A	43	44	15A	EXTRUDER LINE #8	
	EXTRUDER LINE #7	15A	45	46	15A	EXTRUDER LINE #8	
	EXTRUDER LINE #7	20A	47	48	20A	EXTRUDER LINE #8	
	EXTRUDER LINE #7	15A	49	50	15A	EXTRUDER LINE #8	
		20A	51	52	20A		
	EXTRUDER LINE #7	53	54			EXTRUDER LINE #8	
		3P	55	56	3P		
			57	58	60A		
	PANEL '2P'	59	60			PANEL '1P'	
		3P	61	62	3P		
	SPACE	63	64			SPACE	
	SPACE	65	66			SPACE	
	SPACE	67	68			SPACE	
	SPACE	69	70			SPACE	
	SPACE	71	72			SPACE	
	SPACE	73	74			SPACE	
	SPACE	75	76			SPACE	
	SPACE	77	78			SPACE	
	SPACE	79	80			SPACE	

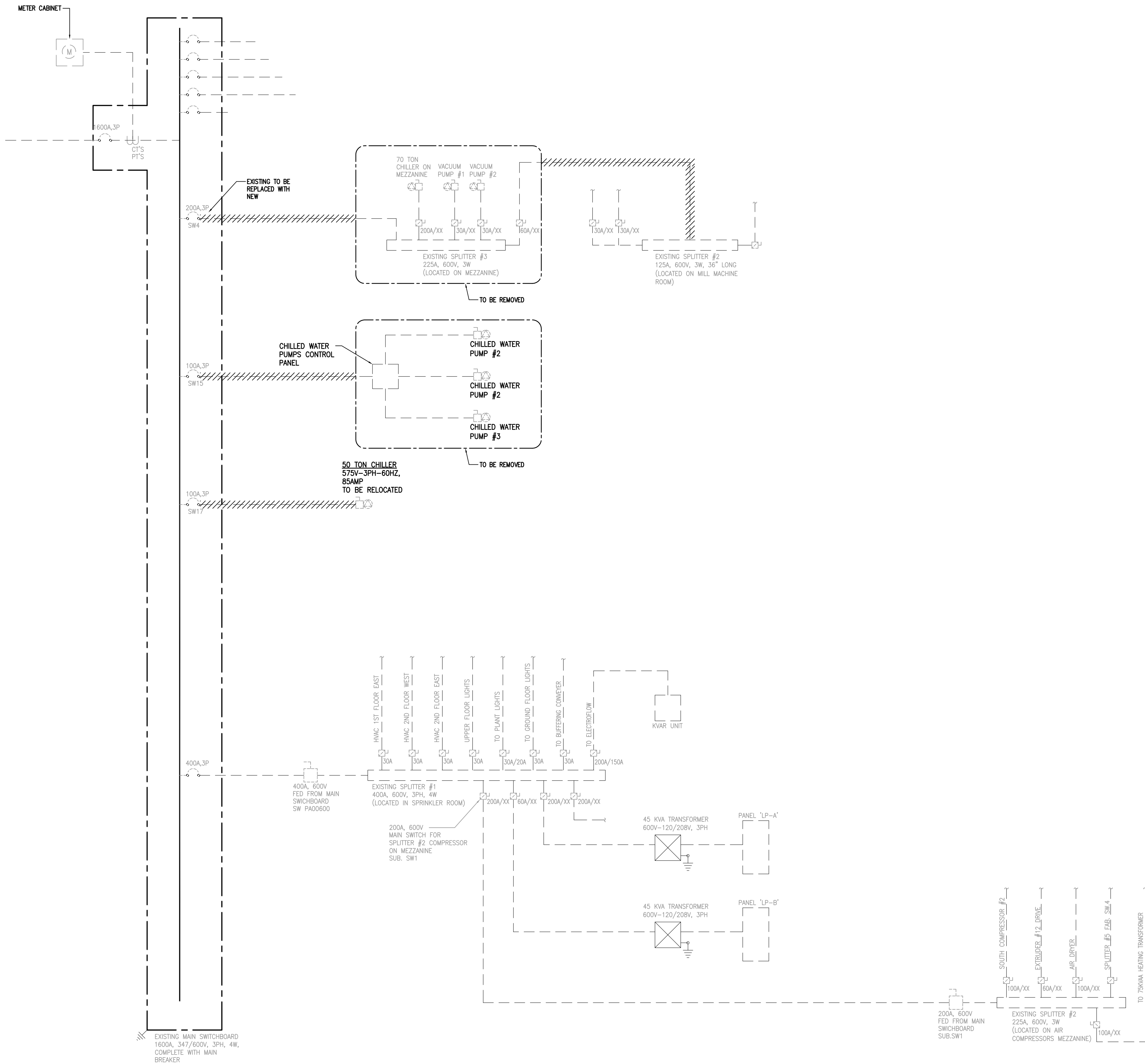
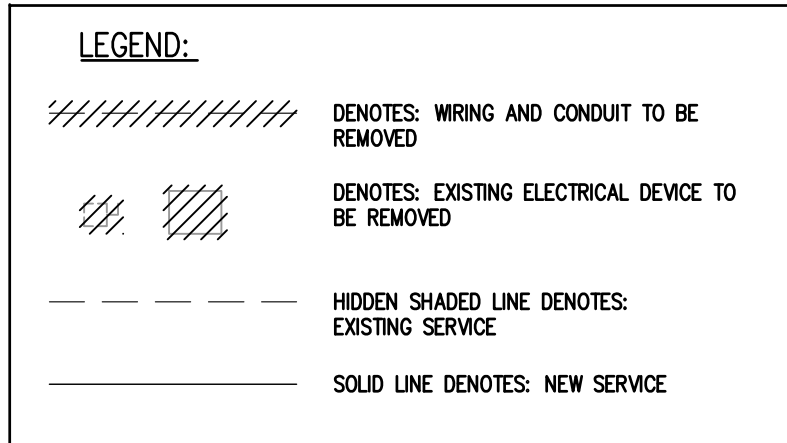
NOTE:

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A circular professional engineer seal for the Province of Ontario. The outer ring contains the text "PROFESSIONAL ENGINEER" at the top and "LICENSED" at the bottom. In the center, the name "A. PRUTKIN" is printed. A handwritten signature is scrawled across the seal.

SFI PROJECT #: 2023-1010

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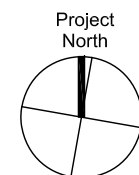
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22_31	N.T.S.
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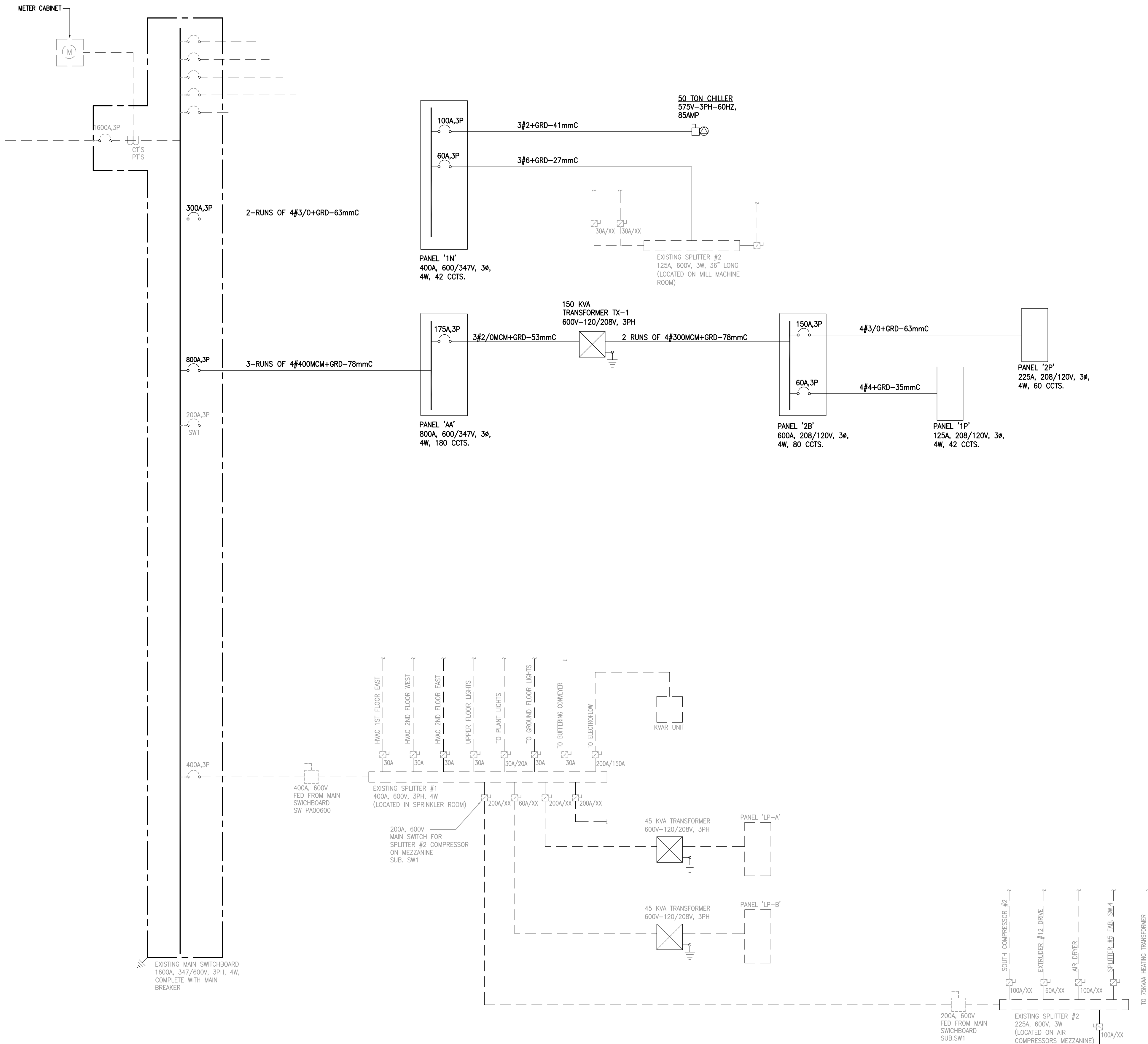
Single Line Diagram Existing



drawing number

EO.3

Rev	Description	Date
1	Schematic Design	09/06/2017
2	Issued for 75% Progress	17/11/2017
3	Issued for Permit	16/02/2018
4	Issued for Tender	04/03/2018



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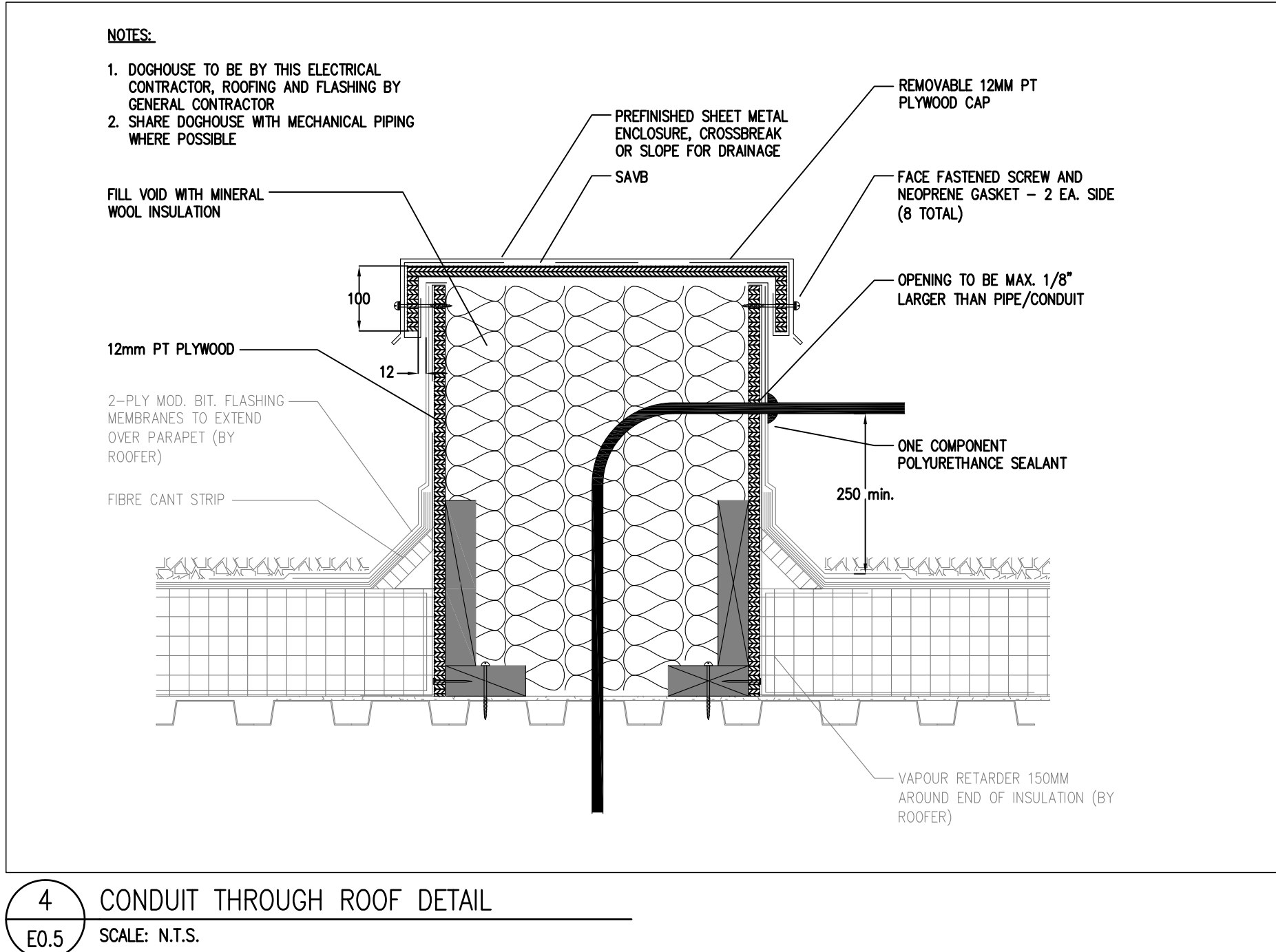
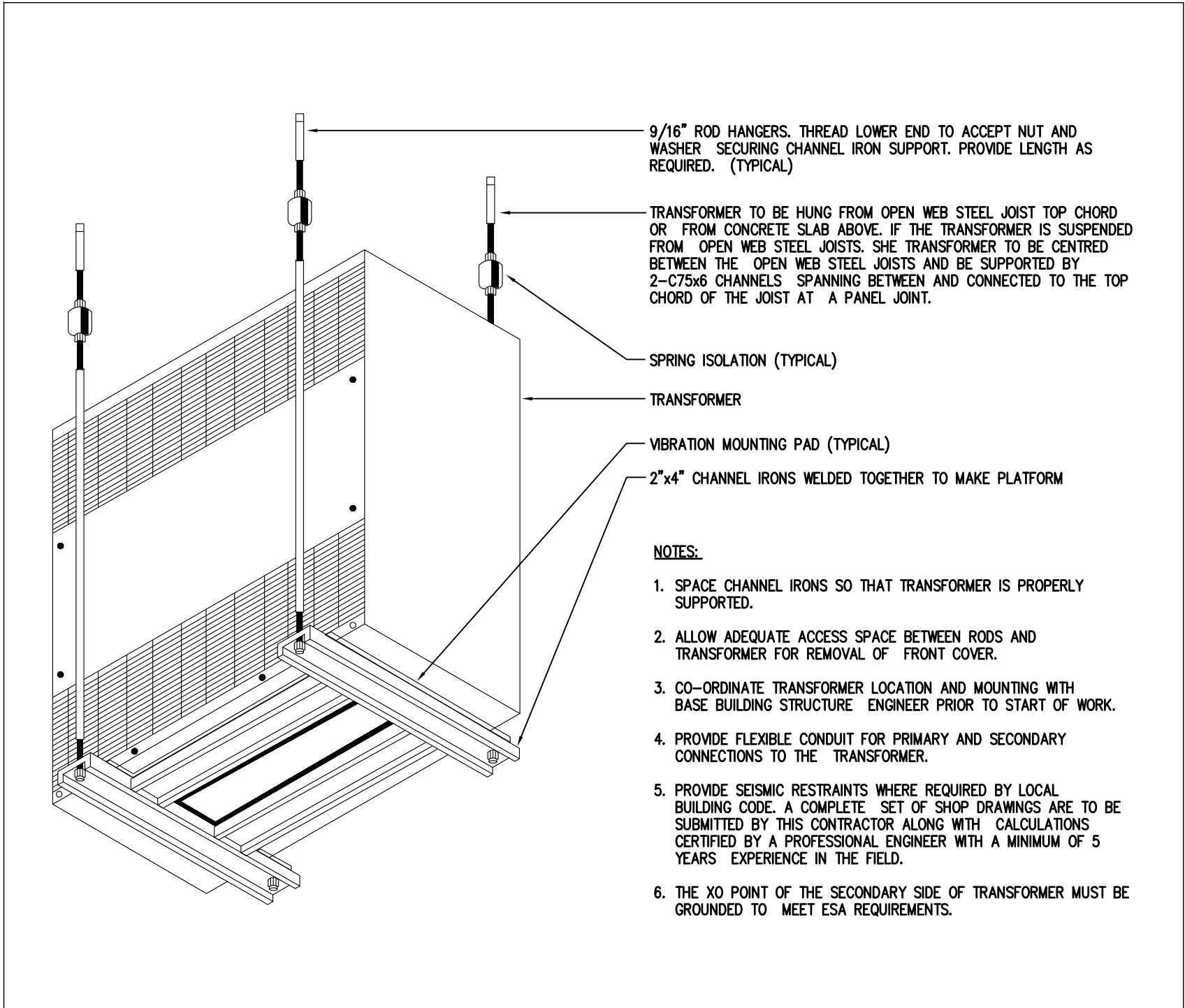
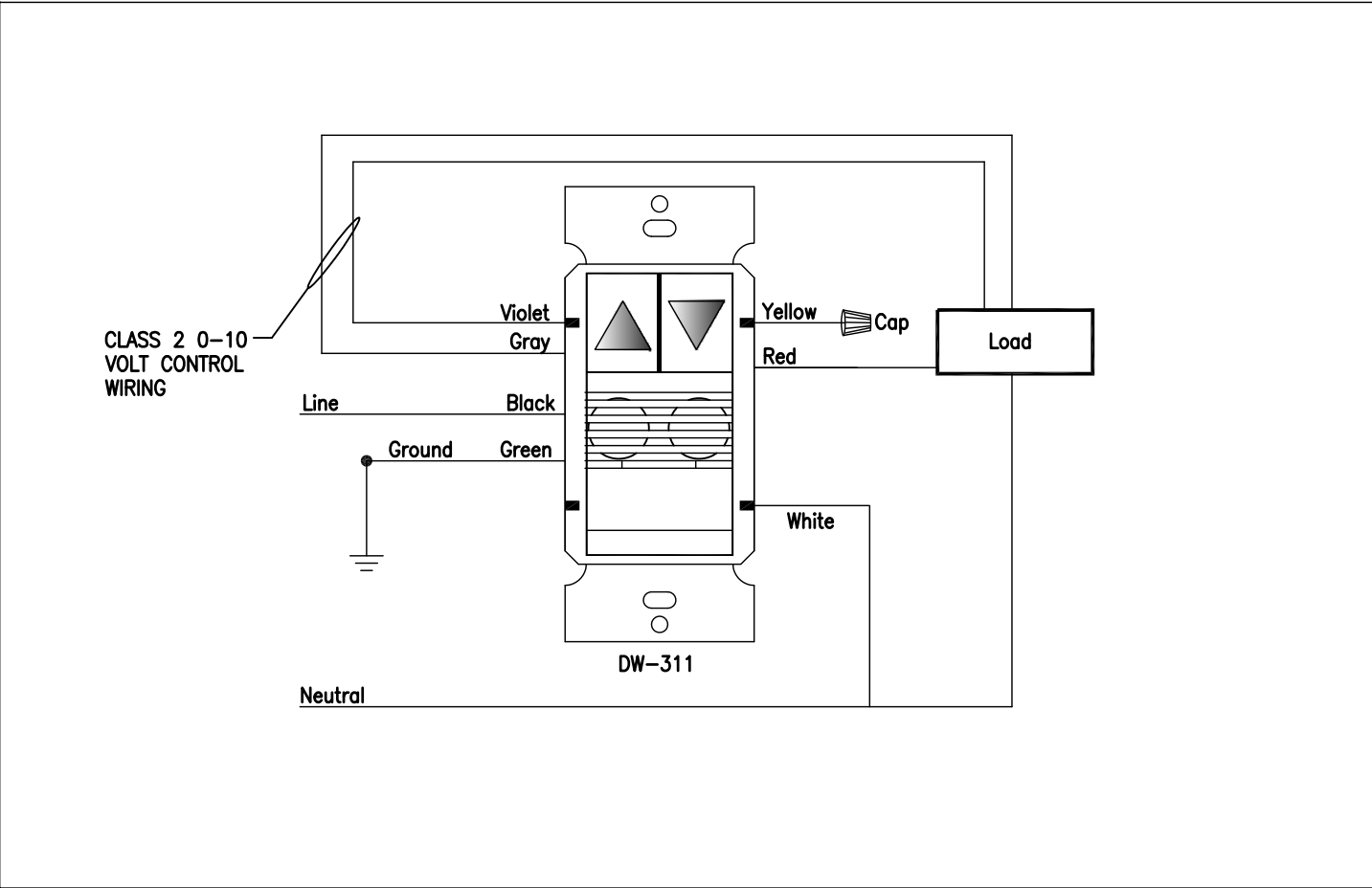
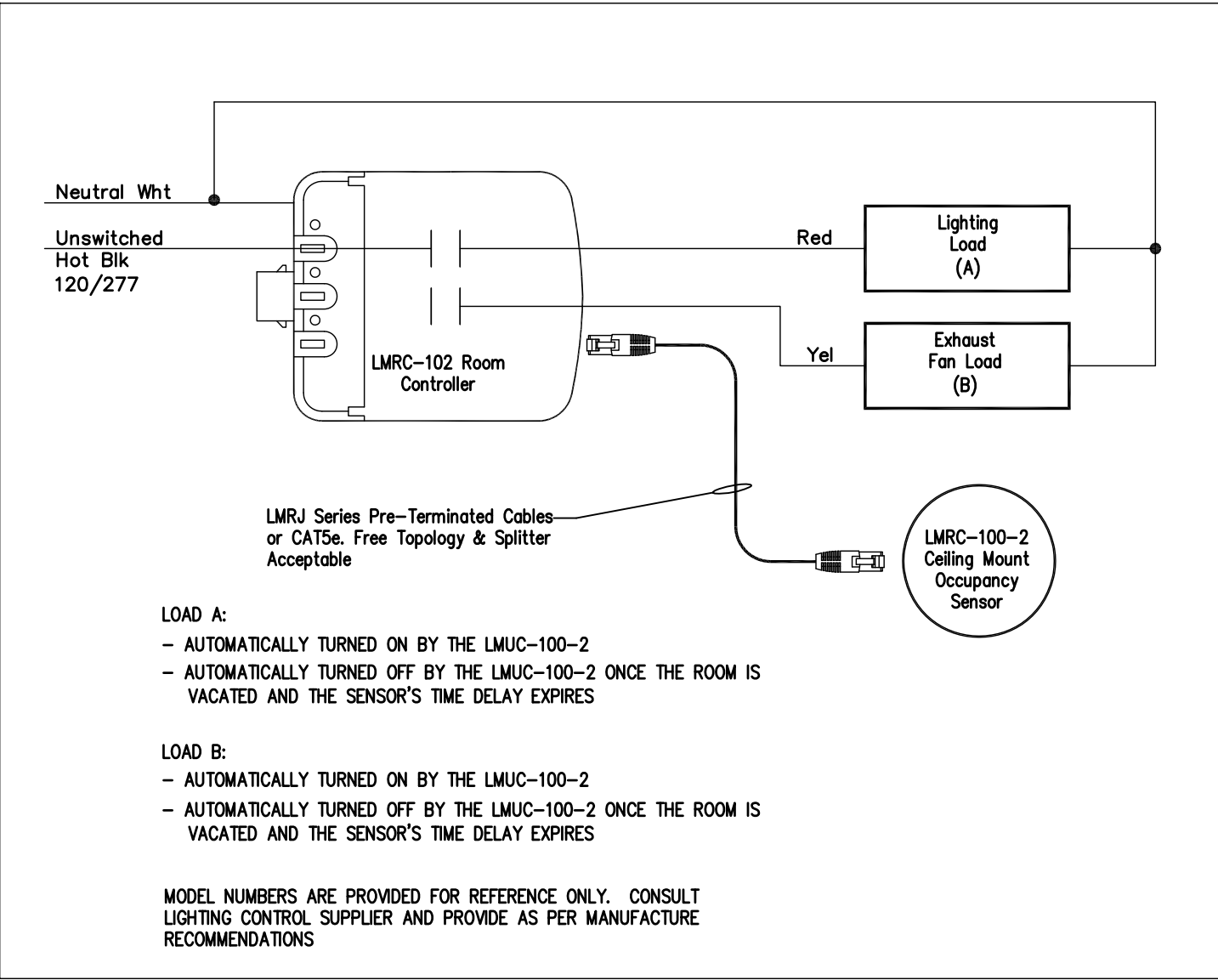
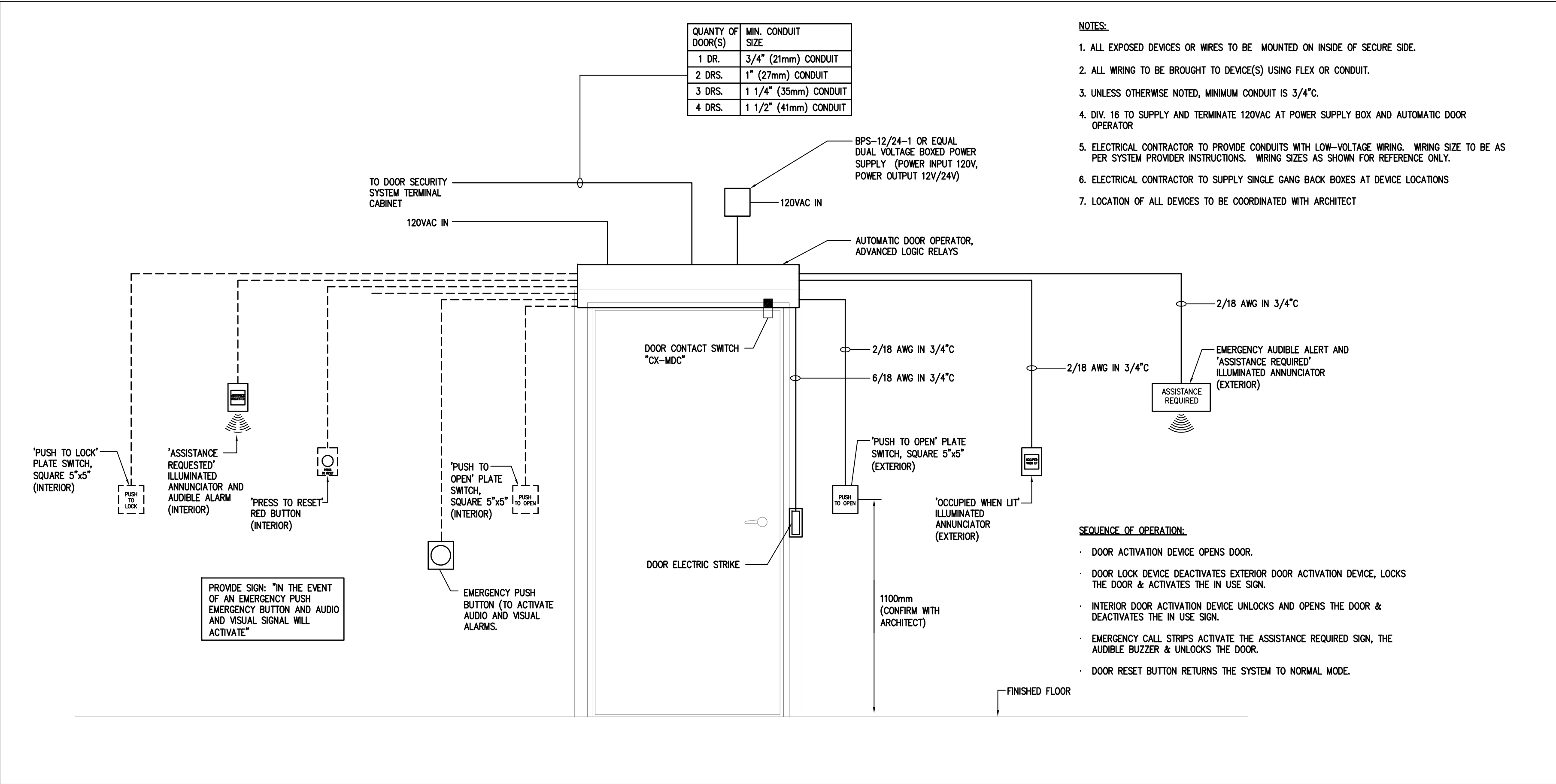
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Single Line Diagram

New





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PROFESSIONAL ENGINEER
A. PROTOKIN
04/03/24
PROVINCE OF ONTARIO

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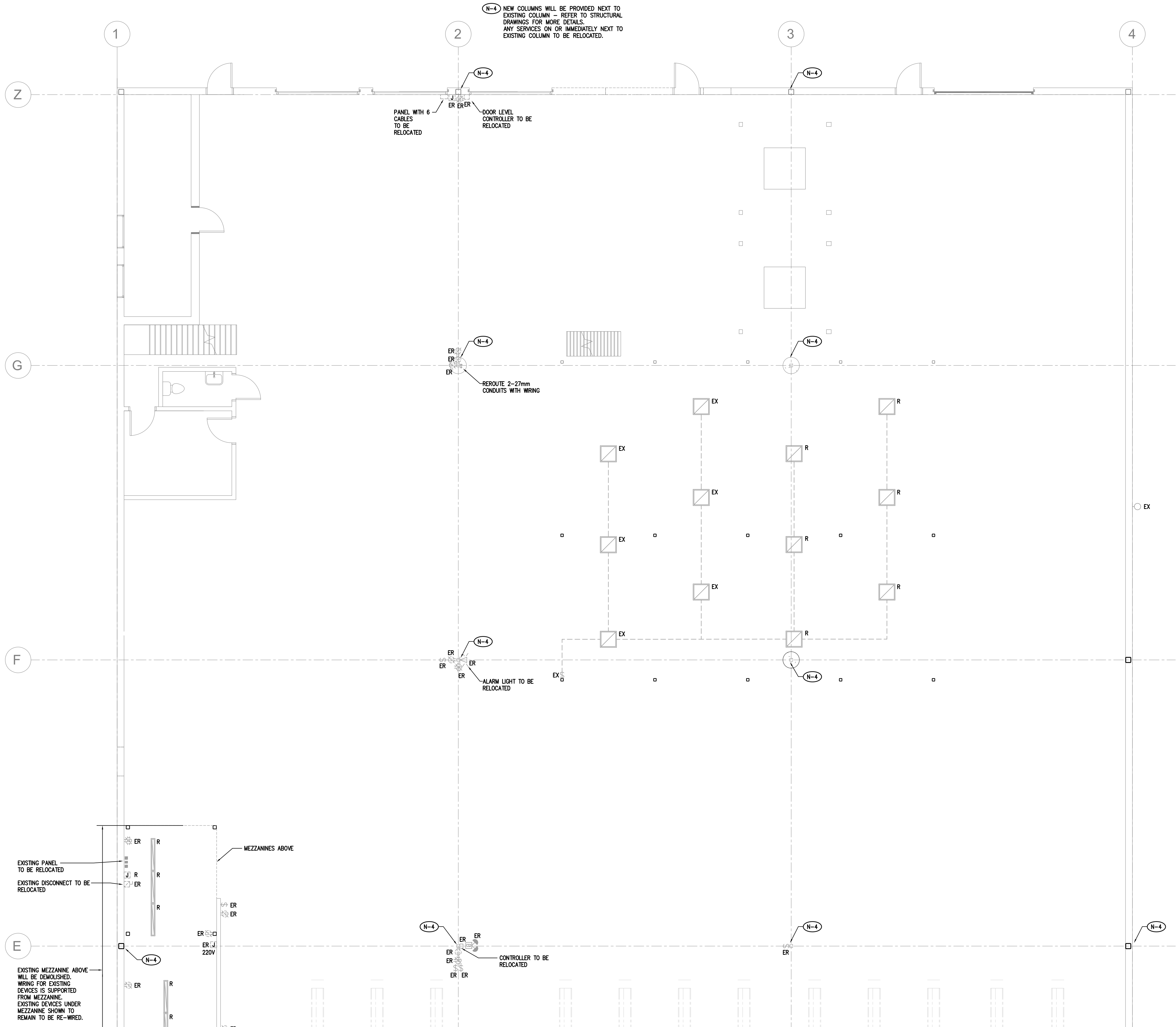
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Electrical Details

Rev	Description	Date
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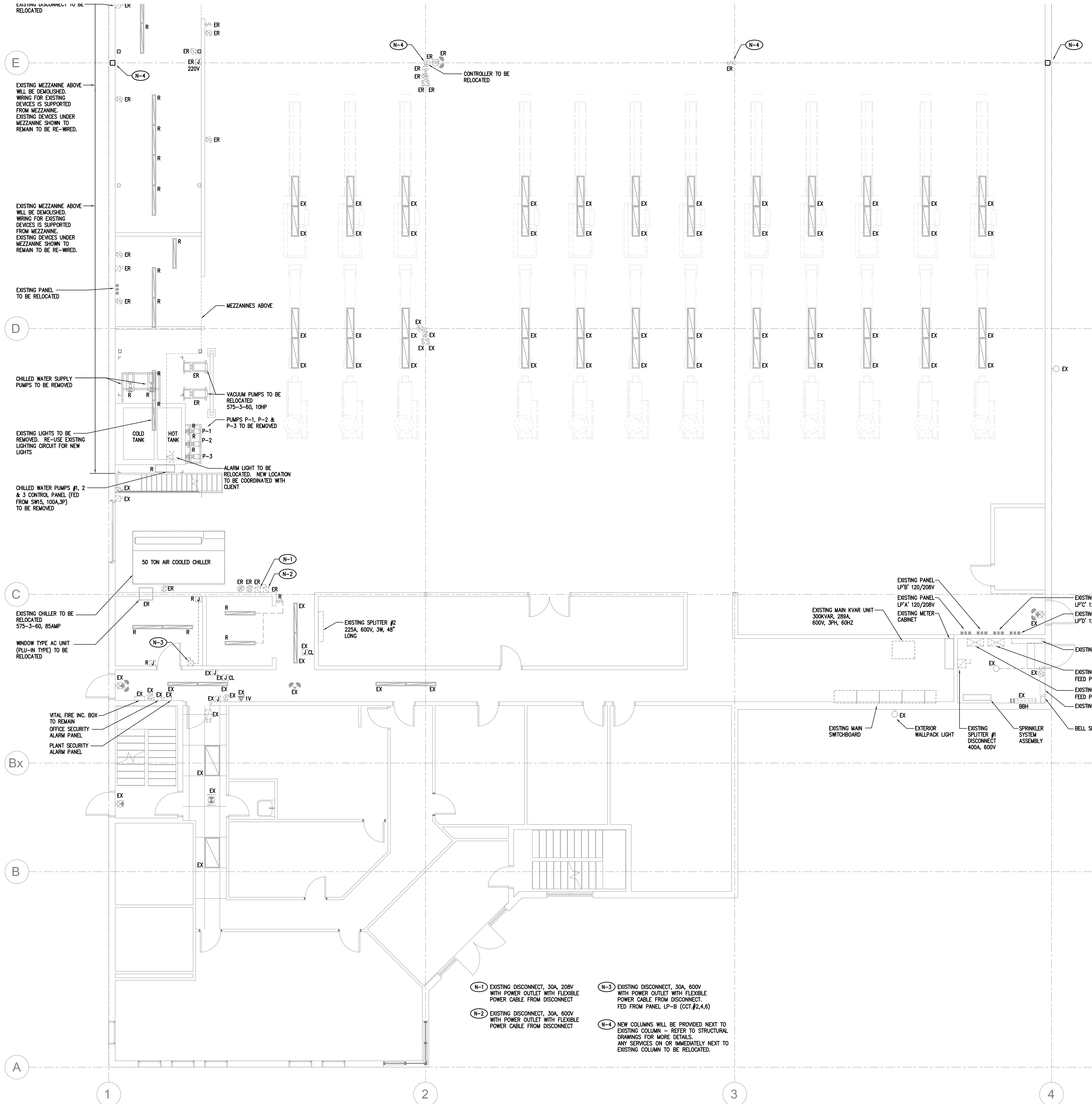
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Part Ground Floor
North
Electrical Demolition



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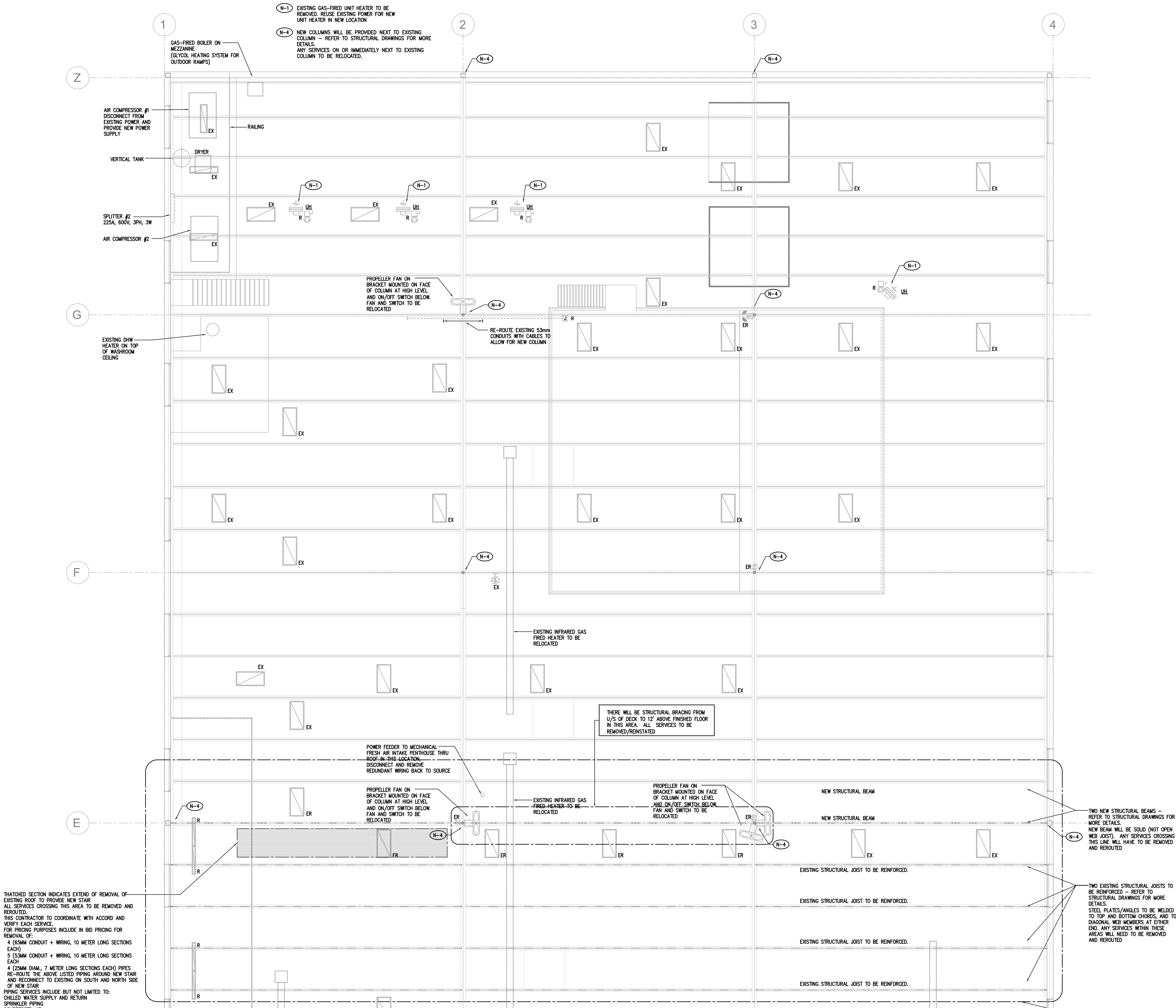
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Part Ground Floor
South
Electrical Demolition



Rev	Description	Date
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DATE: March 4, 2024
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PART MEZZANINE FLOOR NORTH ELECTRICAL DEMOLITION



THATCHED SECTION INDICATES EXTEND OF REMOVAL OF EXISTING ROOF TO PROVIDE NEW STAIR
ALL SERVICES CROSSING THIS AREA TO BE REMOVED AND REROUTED.
THIS CONTRACTOR TO COORDINATE WITH ACCORD AND VERIFY EACH SERVICE.
FOR PRICING PURPOSES INCLUDE IN BID PRICING FOR REMOVAL OF:
4 (50MM CONDUIT + WIRING, 10 METER LONG SECTIONS EACH)
5 (53MM CONDUIT + WIRING, 10 METER LONG SECTIONS EACH)
4 (25MM DIAM., 7 METER LONG SECTIONS EACH) PIPES
RE-ROUTE THE ABOVE LISTED PIPING AROUND NEW STAIR AND RECONNECT TO EXISTING ON SOUTH AND NORTH SIDE OF NEW STAIR
PIPING SERVICES INCLUDE BUT NOT LIMITED TO:
CHILLED WATER SUPPLY AND RETURN
SPRINKLER PIPING
COMPRESSED AIR
DOMESTIC WATER PIPING
STORM WATER LINE
GAS PIPING
PIPING RE-ROUTING TO BE DONE AFTER HOURS OR ON WEEKENDS.
SHUT DOWN OF EACH SERVICE MUST BE COORDINATED AND APPROVED BY ACCORD IN ADVANCE OF ANY WORK.

EXISTING SPLITTER #3
225A, 600V, 3W, 48"
LONG (FED FROM SW4,
200A/3P)
SPLITTER TO BE REMOVED

EXISTING 70TON
CHILLER TO BE
REMOVED

OUTDOOR CONDENSER ON
ROOF TO BE REMOVED

EXISTING INFRARED GAS
FIRE HEATER TO BE
REMOVED AND
RE-INSTALLED

PROPELLER FAN ON
BRACKET MOUNTED ON FACE
OF COLUMN AT HIGH LEVEL
AND ON/OFF SWITCH BELOW.
FAN AND SWITCH TO BE
RELOCATED

EXISTING INFRARED GAS
FIRE HEATER TO BE
RELOCATED

PROPELLER FAN ON
BRACKET MOUNTED ON FACE
OF COLUMN AT HIGH LEVEL
AND ON/OFF SWITCH BELOW.
FAN AND SWITCH TO BE
RELOCATED

NEW STRUCTURAL BEAM

NEW STRUCTURAL BEAM

EXISTING STRUCTURAL JOIST TO BE REINFORCED.

EXISTING STRUCTURAL JOIST TO BE REINFORCED.

EXISTING STRUCTURAL JOIST TO BE REINFORCED.

EXISTING STRUCTURAL JOIST TO BE REINFORCED.

EXISTING INFRARED GAS
FIRE HEATER TO BE
REMOVED AND
RE-INSTALLED

TWO NEW STRUCTURAL BEAMS –
REFER TO STRUCTURAL DRAWINGS FOR
MORE DETAILS.
NEW BEAM WILL BE SOLID (NOT OPEN
WEB JOIST). ANY SERVICES CROSSING
THIS LINE WILL HAVE TO BE REMOVED
AND REROUTED

TWO EXISTING STRUCTURAL JOISTS TO
BE REINFORCED – REFER TO
STRUCTURAL DRAWINGS FOR MORE
DETAILS.
STEEL PLATES/ANGLES TO BE WELDED
TO TOP AND BOTTOM CHORDS, AND TO
DIAGONAL WEB MEMBERS AT EITHER
END. ANY SERVICES WITHIN THESE
AREAS WILL NEED TO BE REMOVED
AND REROUTED

ALL SERVICES CROSSING EXISTING JOISTS AND AREA WITH
NEW BEAMS TO BE REMOVED AND REROUTED.
THIS CONTRACTOR TO COORDINATE WITH ACCORD AND
VERIFY EACH SERVICE.
FOR PRICING PURPOSES INCLUDE IN BID PRICING FOR
REMOVAL AND REROUTING OF:
8 (100MM DIAM., 7 METER LONG SECTIONS EACH) PIPES
25 (75MM DIAM., 7 METER LONG SECTIONS EACH) PIPES
12 (50MM DIAM., 7 METER LONG SECTIONS EACH) PIPES
PIPING SERVICES INCLUDE BUT NOT LIMITED TO:
CHILLED WATER SUPPLY AND RETURN
SPRINKLER PIPING
COMPRESSED AIR
DOMESTIC WATER PIPING
STORM WATER LINE
GAS PIPING
PIPING RE-ROUTING TO BE DONE AFTER HOURS OR ON
WEEKENDS.
SHUT DOWN OF EACH SERVICE MUST BE COORDINATED AND
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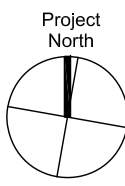
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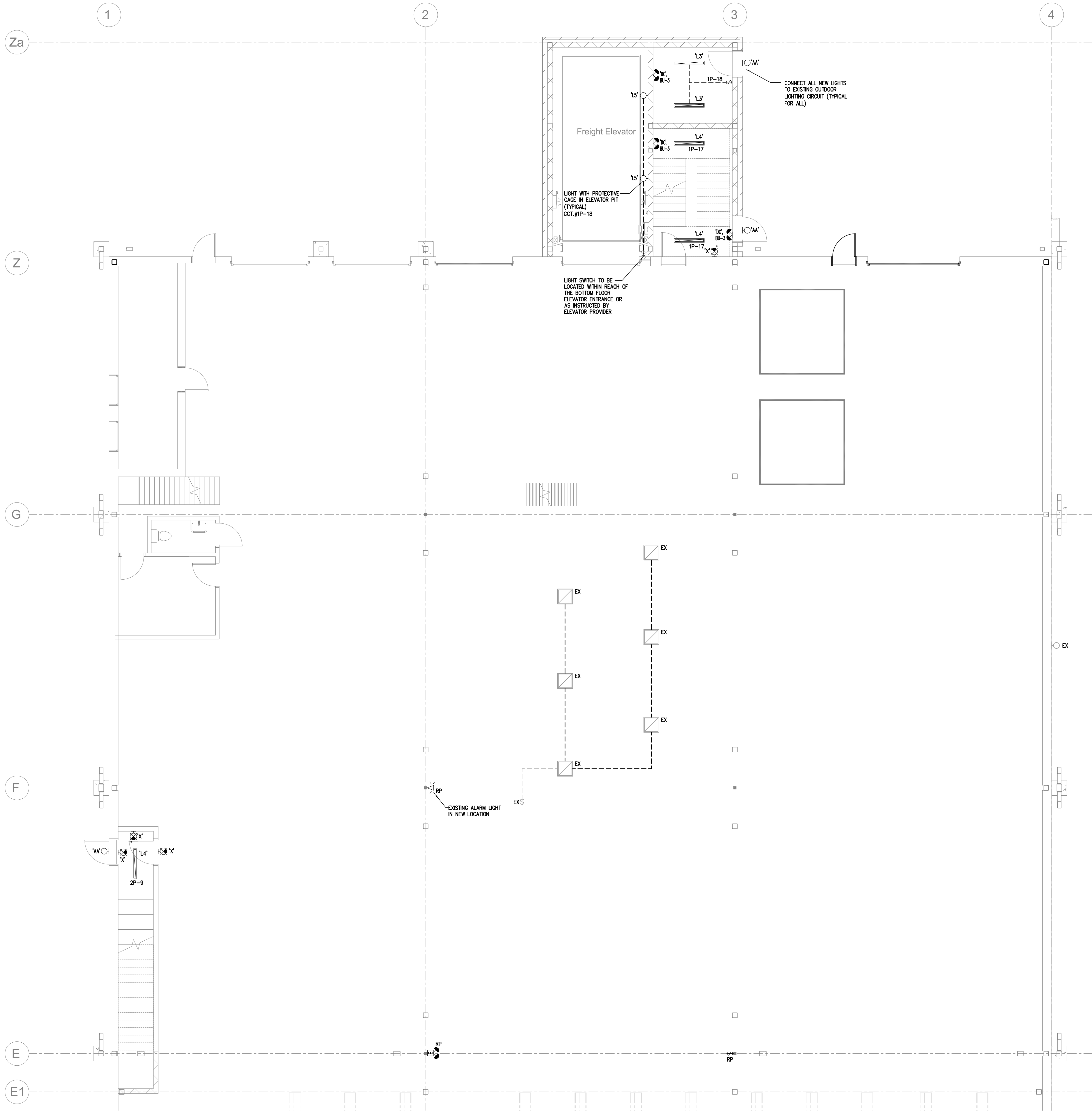
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22_31	1:75
DATE:	STATUS:
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Part Mezzanine Floor
South
Electrical Demolition



drawing number
E12S

Rev	Description	Date
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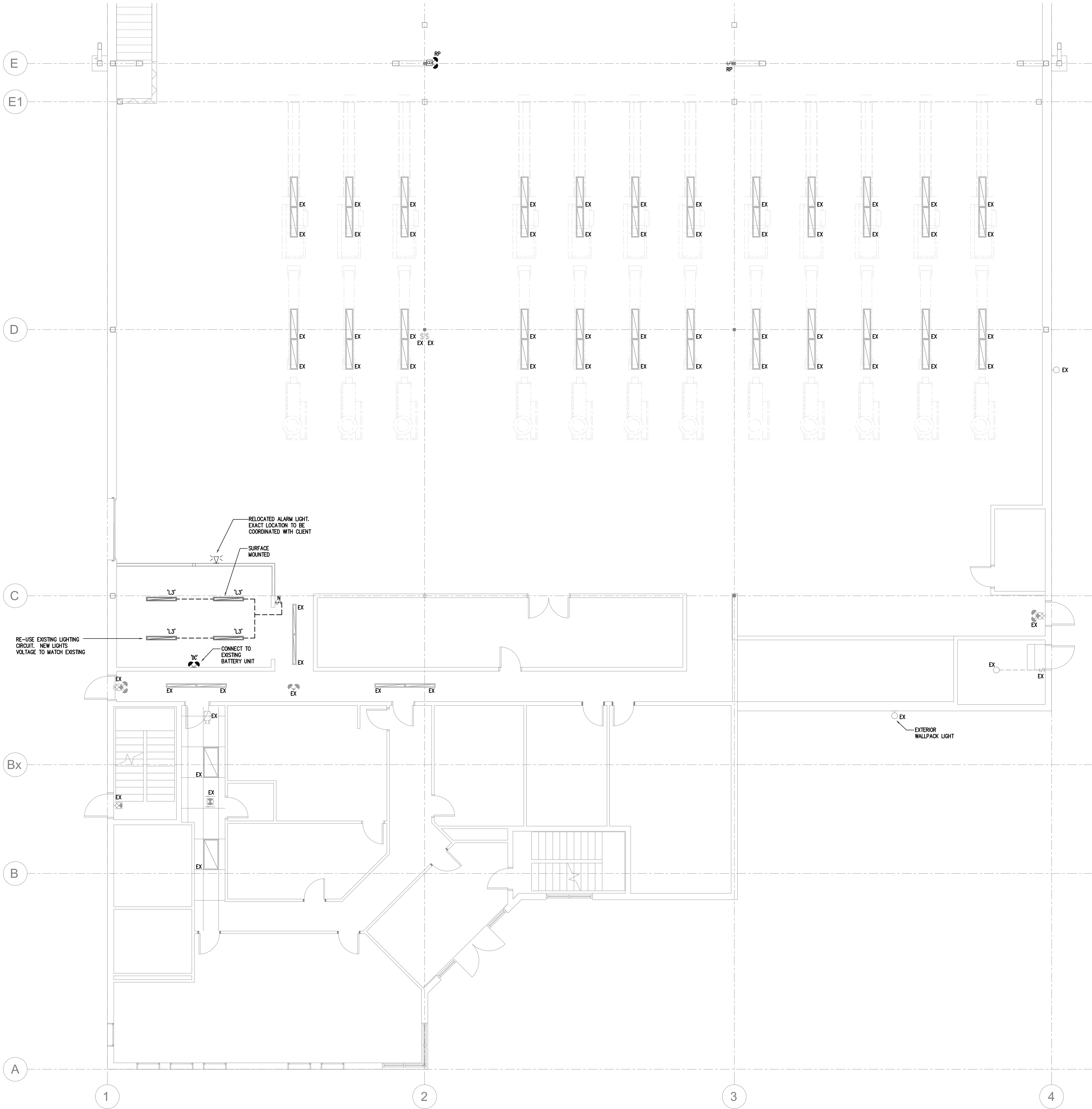
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Part Ground Floor
North
Lighting - New Layout





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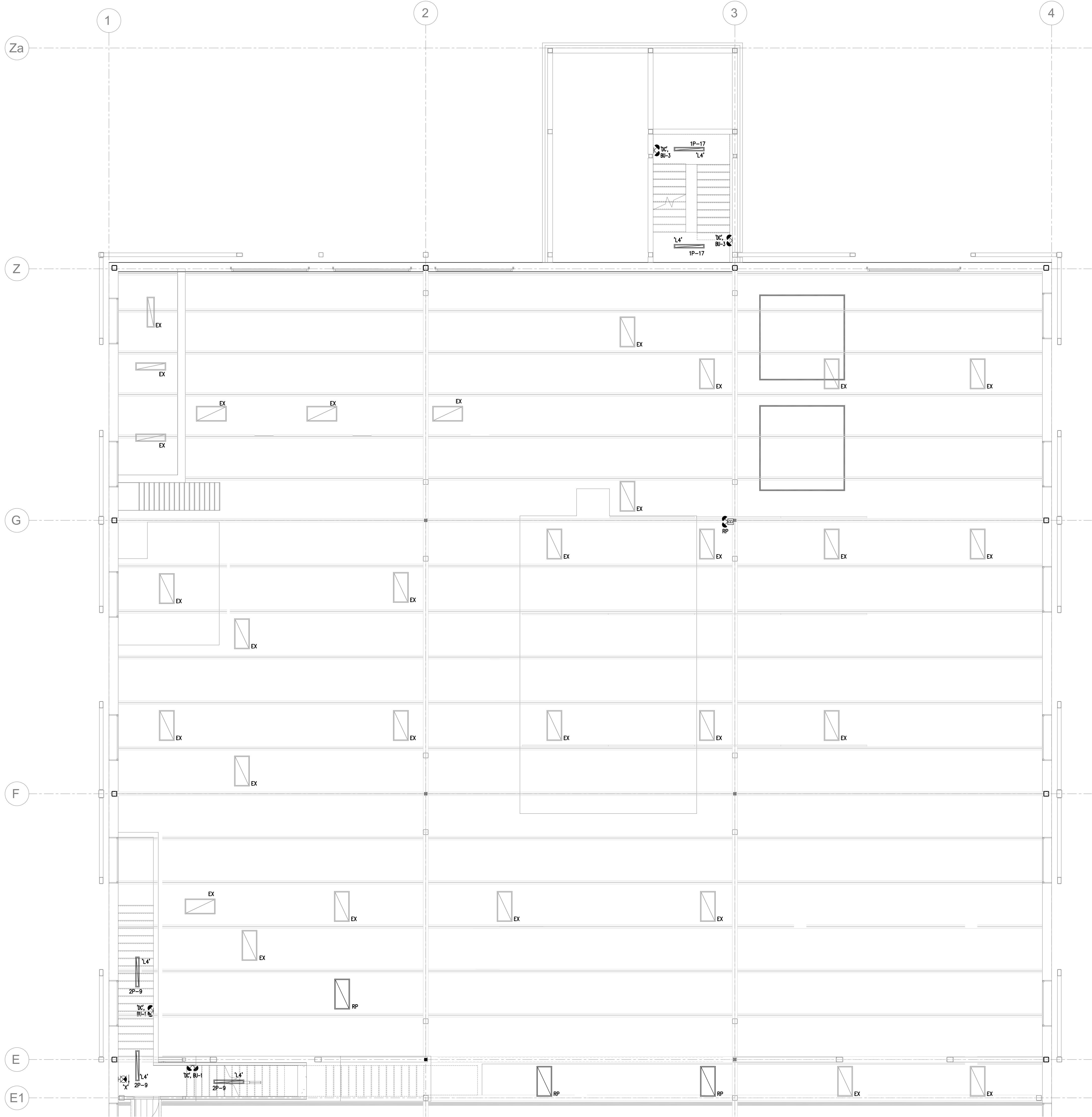
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Part Ground Floor
South
Lighting - New Layout





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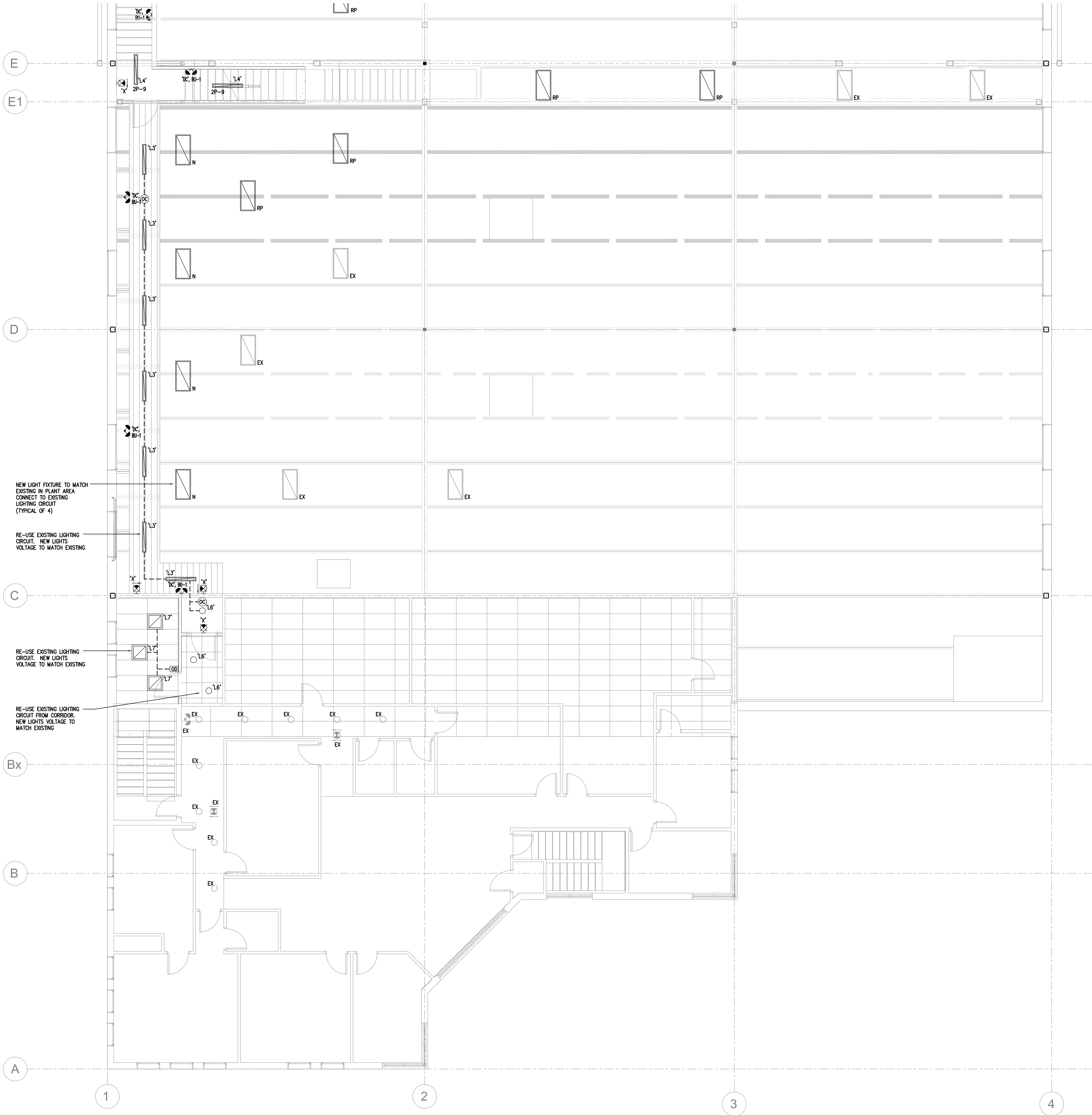
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PART MEZANINE FLOOR NORTH LIGHTING - NEW LAYOUT





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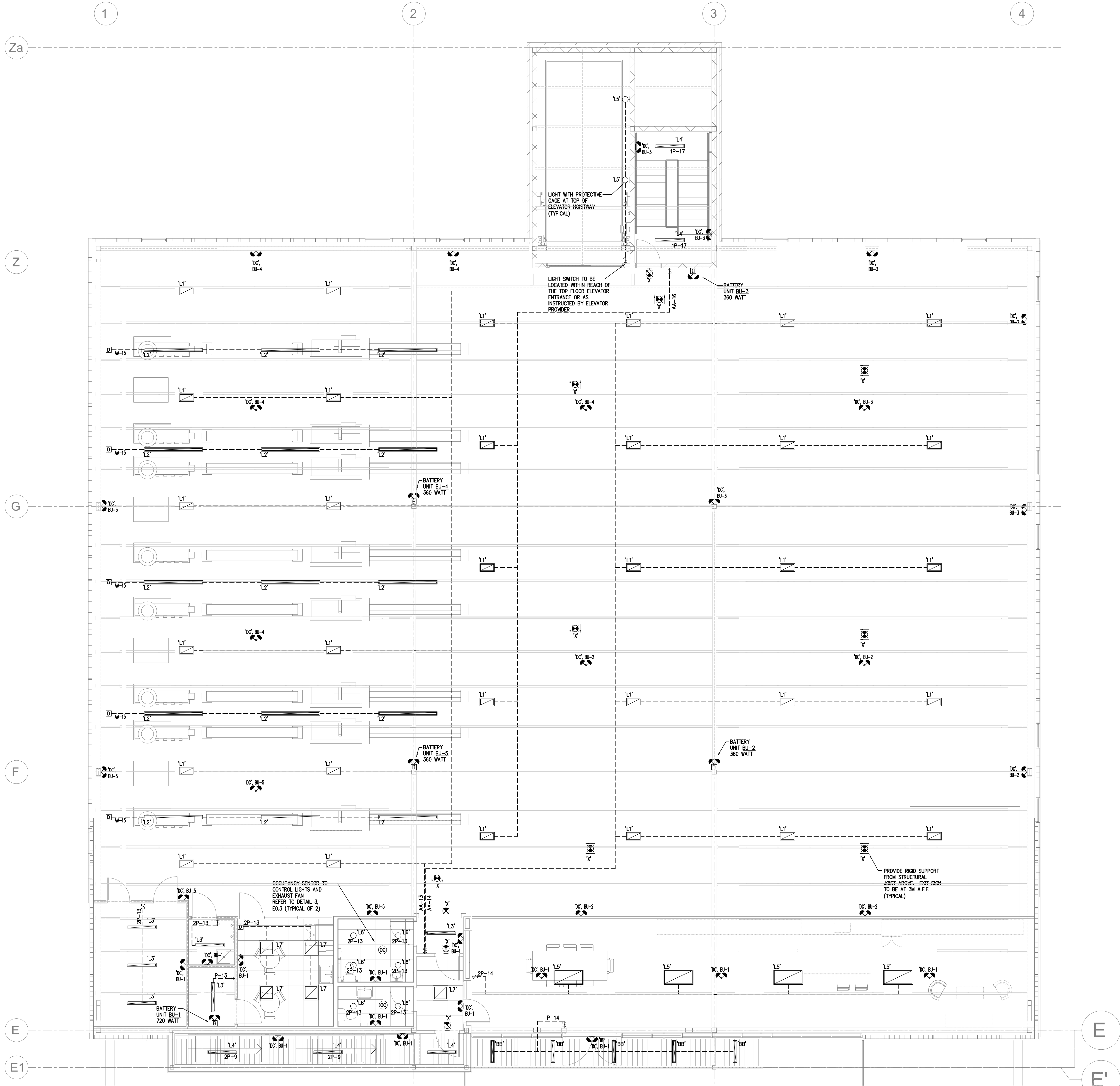
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Part Mezzanine Floor
South
Lighting - New Layout



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Part 2nd Floor
North
Lighting - New Layout



Rev	Description	Date
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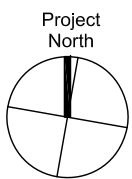
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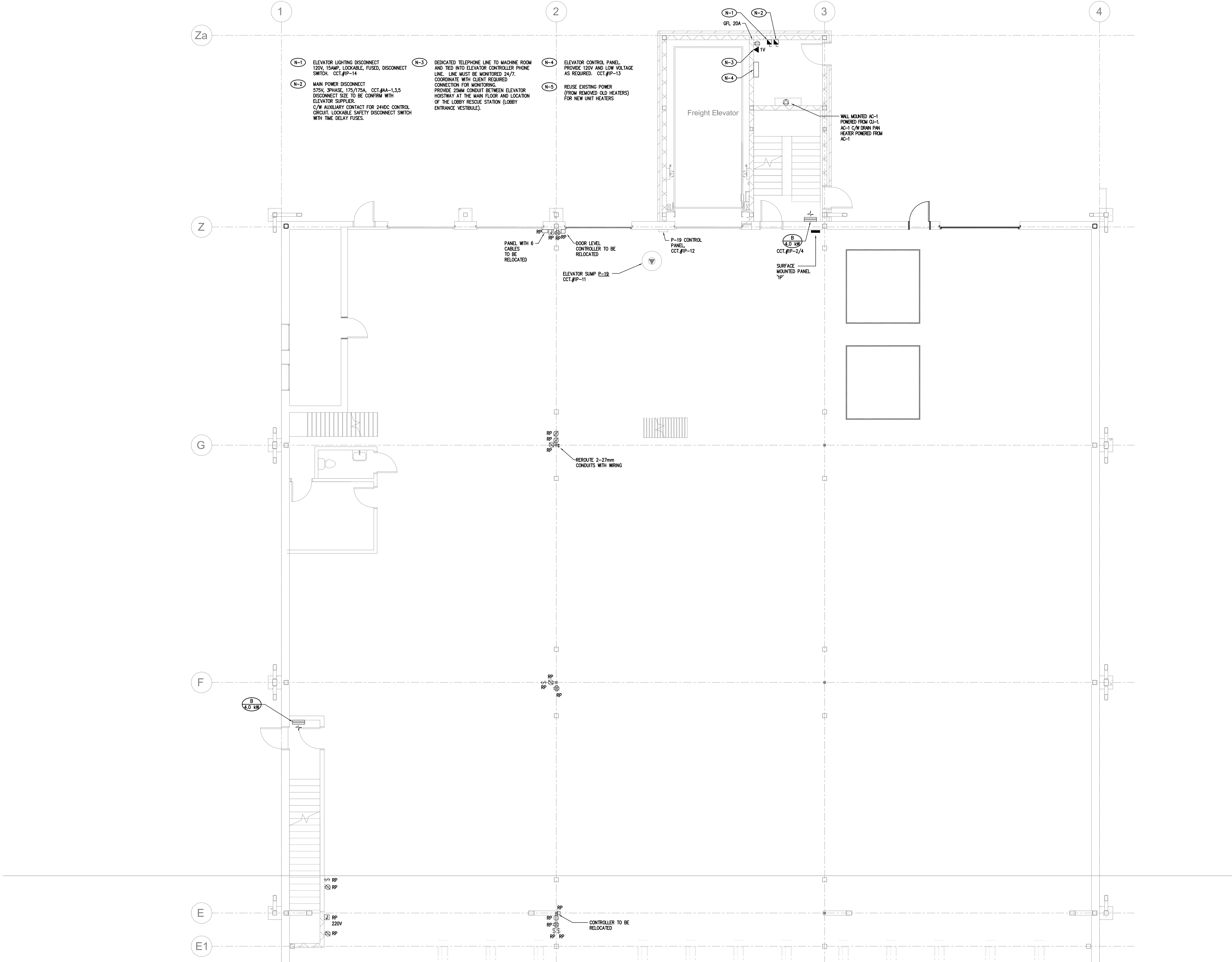
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Part Ground Floor
North
Power - New Layout



drawing number
E3.1N



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A circular professional engineer seal for A. Prutkin. The outer ring contains the text "LICENSED PROFESSIONAL ENGINEER" at the top and "A. PRUTKIN" at the bottom. The center of the seal features a stylized signature of "A. Prutkin".

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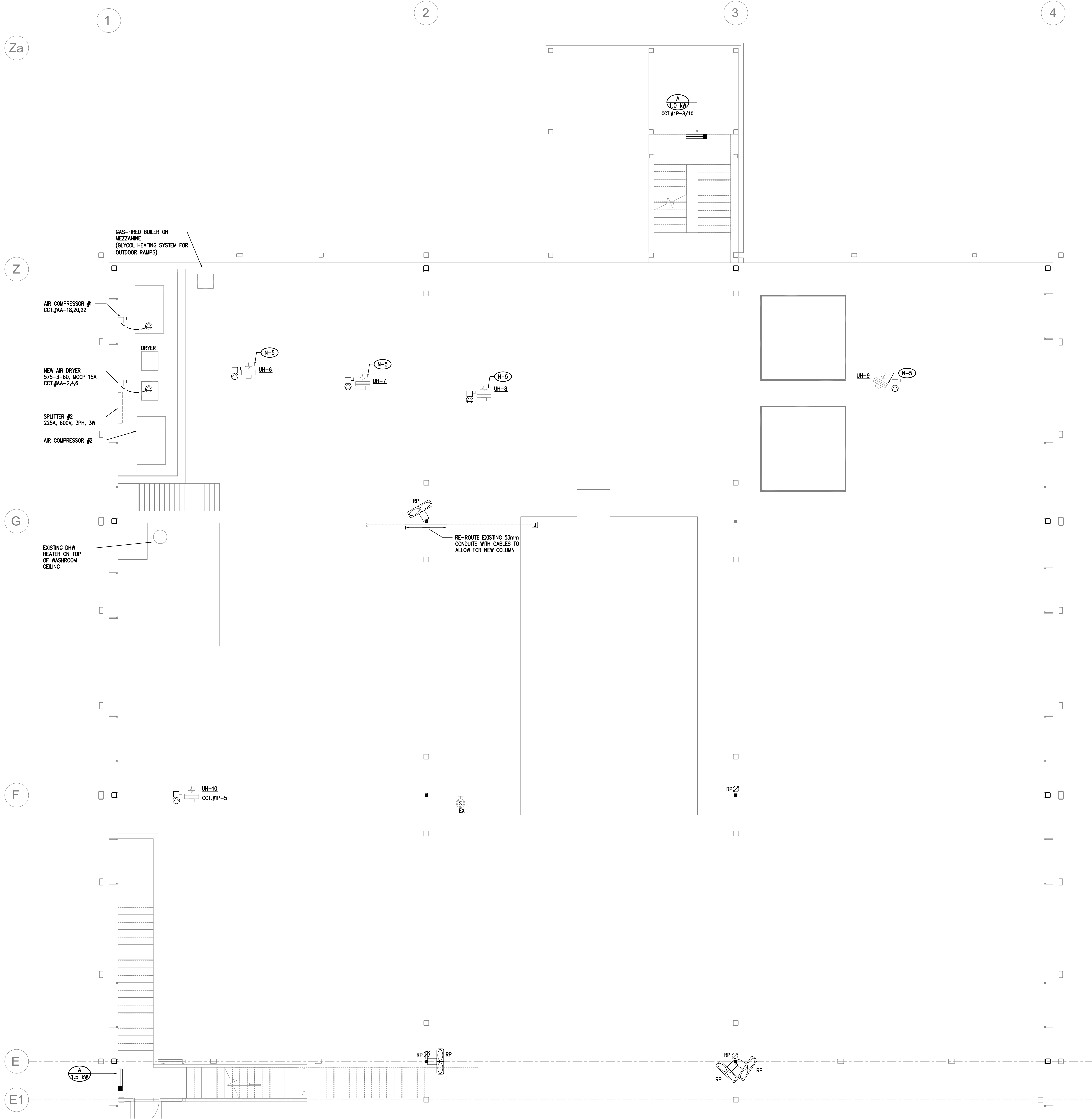
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Part Ground Floor
South
Power - New Layout

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Part Mezzanine Floor
North
Power - New Layout





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Part Mezzanine Floor
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DATE: March 4, 2024 STATUS: Issued for Tender

Part 2nd Floor
North
Power - New Layout



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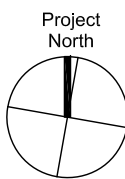
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PROJECT CODE:	SCALE:
22_31	1:75
DATE:	STATUS:
March 4, 2024	Issued for Tender

Part Roof
North
Power - New Layout



drawing number
E3.4N

