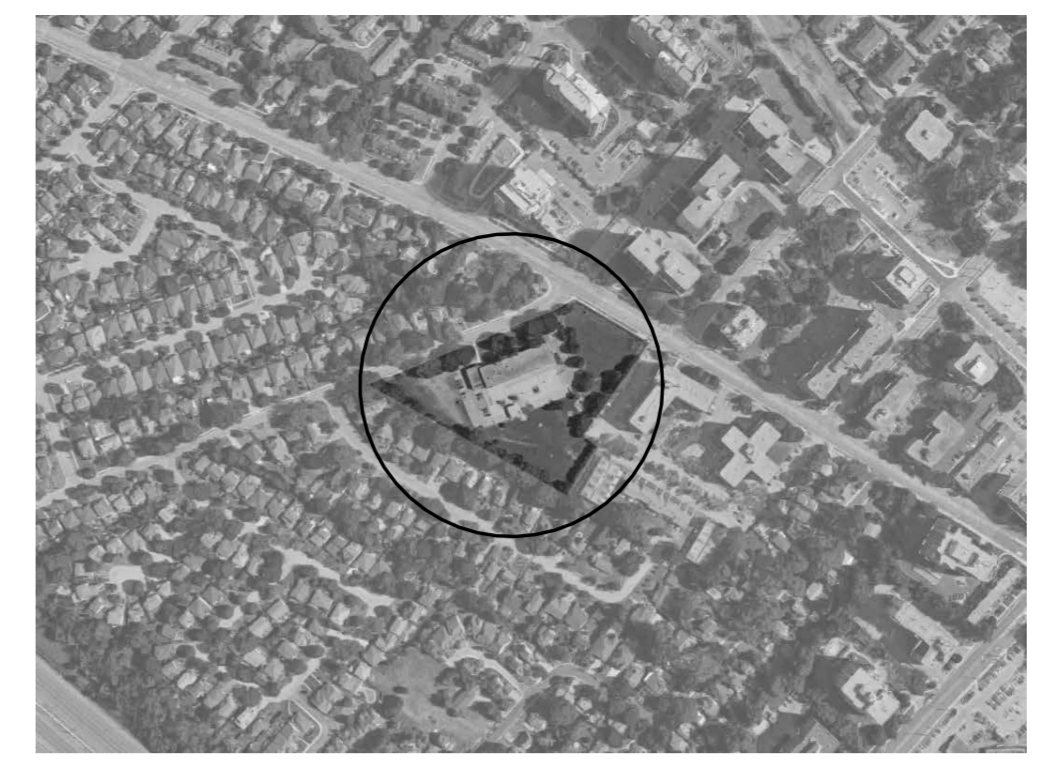


FIRM NAME: WORKSHOP ARCHITECTURE INC. 6 Sousa Mendes Street Toronto, ON M6H 0A8 tel. 416-901-8055		LOCATION: École élémentaire Renaissance 1226 Lockhart Road Burlington, ON L7S 1H1		
NAME OF PROJECT: CSV Renaissance Child Care Addition		Project Area: 636 m ²		
		OBC REFERENCE References are to Division B unless noted [A] for Division A or [C] for Division C		
ONTARIO'S 2012 BUILDING CODE DATA MATRIX PARTS 3 & 9				
1	PROJECT DESCRIPTION: <input type="checkbox"/> NEW <input checked="" type="checkbox"/> ADDITION <input type="checkbox"/> CHANGE OF USE <input checked="" type="checkbox"/> ALTERATION	<input checked="" type="checkbox"/> PART 11 111 TO 114	<input checked="" type="checkbox"/> PART 3 112 [A]	<input type="checkbox"/> PART 9 112 [A] & 910.13
2	MAJOR OCCUPANCY(S): A2 - Elementary School		312.1(1)	910.2
3	BUILDING AREA (m²) EXISTING: 1282 NEW: 536 TOTAL: 1818		1.412[A]	1.412[A]
4	GROSS AREA (m²) EXISTING: 2347 NEW: 536 TOTAL: 2883		1.412[A]	1.412[A]
5	NUMBER OF STOREYS ABOVE GRADE: 2 BELOW GRADE: 0		1.412[A] & 3.21.1	1.412[A] & 910.4
6	NUMBER OF STREETS / FIRE FIGHTER ACCESS: 2		3.2.2.10 & 3.2.5	910.20
7	BUILDING CLASSIFICATION: 3.2.2.25 (EXISTING NON-CONFORMING)		3.2.2.20-83	910.2
8	SPRINKLER SYSTEM (PROPOSED) <input type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> BASEMENT <input type="checkbox"/> SELECTED FLOOR AREAS <input type="checkbox"/> NOT REQUIRED	<input checked="" type="checkbox"/> SELECTED COMPARTMENTS <input type="checkbox"/> IN LIEU OF ROOF RATING	3.2.2.20-83 3.2.1.5 3.2.2.17 INDEX	910.8.2
9	STANDPIPE REQUIRED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	3.2.9	N/A
10	FIRE ALARM REQUIRED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	3.2.4	910.18
11	WATER/SERVICE/SUPPLY IS ADEQUATE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	3.2.5.7	N/A
12	HIGH BUILDING	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3.2.6	N/A
13	CONSTRUCTION RESTRICTIONS ACTUAL CONSTRUCTION	<input checked="" type="checkbox"/> COMBUSTIBLE PERMITTED <input type="checkbox"/> NON-COMBUSTIBLE <input type="checkbox"/> NOT REQUIRED <input type="checkbox"/> NON-COMBUSTIBLE REQUIRED <input type="checkbox"/> NON-COMBUSTIBLE <input checked="" type="checkbox"/> BOTH	3.2.2.20-83	910.6
14	MEZZANINE(S) AREA (m²) NA		3.2.11(3)-(8)	910.41
15	OCCUPANT LOAD BASED ON OCCUPANCY: A2 LOAD (EXISTING, UNCHANGED): 238 PERSONS (25 STAFF + 213 STUDENTS) LOAD (NEW, CHILD CARE): 59 PERSONS (10 STAFF + 49 STUDENTS) TOTAL: 297 PERSONS	<input type="checkbox"/> MSO/PERSON <input checked="" type="checkbox"/> DESIGN OF BUILDING	3.1.17	910.13
16	BARRIER-FREE DESIGN	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	3.8	910.2
17	HAZARDOUS SUBSTANCES	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3.3.1.2 & 3.3.1.19	910.13(4)
18	REQUIRED FIRE RESISTANCE RATING (FRR) HORIZONTAL ASSEMBLIES FRR (HOURS) FLOORS: no change HOURS ROOF: no change HOURS MEZZANINE: NA FRR OF SUPPORTING MEMBERS FLOORS: no change HOURS ROOF: no change HOURS MEZZANINE: NA	LISTED DESIGN NO. OR DESCRIPTION (SG-2) NA LISTED DESIGN NO. OR DESCRIPTION (SG-2)	3.2.2.20-83 & 3.2.1.4	910.8 910.9 NO CHANGE
19	SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS WALL AREA OF EBF (m ²) LD (m) PERMITTED MAX % OF OPENINGS PROPOSED % OF OPENINGS WALL + CLADDING CONSTRUCTION		3.2.3	910.14
20	PLUMBING FIXTURE REQUIREMENTS Floor Level/Area Occupant Load OBC Ref. WCs Req'd WCs Provided	Ratio: Male:Female = 50/50 unless noted otherwise Child Care Addition: 49 children Table 3.7.4.3.I 5 5 Child Care Addition & Existing School: 25 staff (10 child care staff + 25 existing school staff) Table 3.7.4.3.A 1 male occupant WCs (2 existing in existing school + 1 new universal WC) 1 female	3.7.4	
21	OTHER-DESCRIBE EXISTING NON-CONFORMING ITEM: Existing building area is greater than allowed by building classification 3.2.2.25			

- General Notes**
- Site visit is required by General Contractor to verify site conditions. Contact Architect for clarification if required.
 - Make good all surfaces/areas/finishes damaged during demolition.
 - All dimensions are to face of partition unless noted otherwise.
 - Angles are 90 degrees unless noted otherwise.
 - Contractor to provide adequate blocking for all millwork, signage, grab bars, equipment, etc mounted to walls/ceilings.
 - Patch, repair and make good all existing partitions, bulkheads, and ceilings within area of work. Prepare existing surfaces as required to receive new finishes as scheduled.
 - The General Contractor shall be responsible for all mechanical, electrical and plumbing work. The General Contractor shall be responsible for all chases, openings (including scanning/x-ray where required for coring/trenching) and patching as required by mechanical, electrical, plumbing and IT cabling trades. Review requirements with these trades.
 - The General Contractor shall be responsible for keeping areas clean (e.g. access to exit corridors, etc). Remove garbage and clean daily and as required. At the completion of the job, the General Contractor shall remove all protective materials and arrange for a professional cleaning service to clean/wipe down all surfaces, including walls, windows/glazing, sills, blinds and fixtures/fittings.
 - Site access, including working hours, for material delivery, work forces and for refuse removal is to be coordinated with the Owner.
 - General Contractor is to co-ordinate and co-operate with trades retained directly by Owner as applicable (eg. furniture installers, IT sub-trades etc.)
 - The General Contractor shall be responsible for scheduling the trades identified in item 10, where such work affects the progress of the job.
 - The General Contractor shall comply with all applicable Building and Fire Codes, including measures for temporary exiting during construction.
 - General Contractor to provide stainless steel transition strips where differing new floor materials abut each other and existing floors.
 - Refer to Mechanical and Electrical drawings for mechanical and electrical scope of work.
 - General Contractor to chalk-out new partition layout for review/approval by Architect before proceeding with installation of partition framing.
 - All temporary shoring/support is the responsibility of the Contractor.



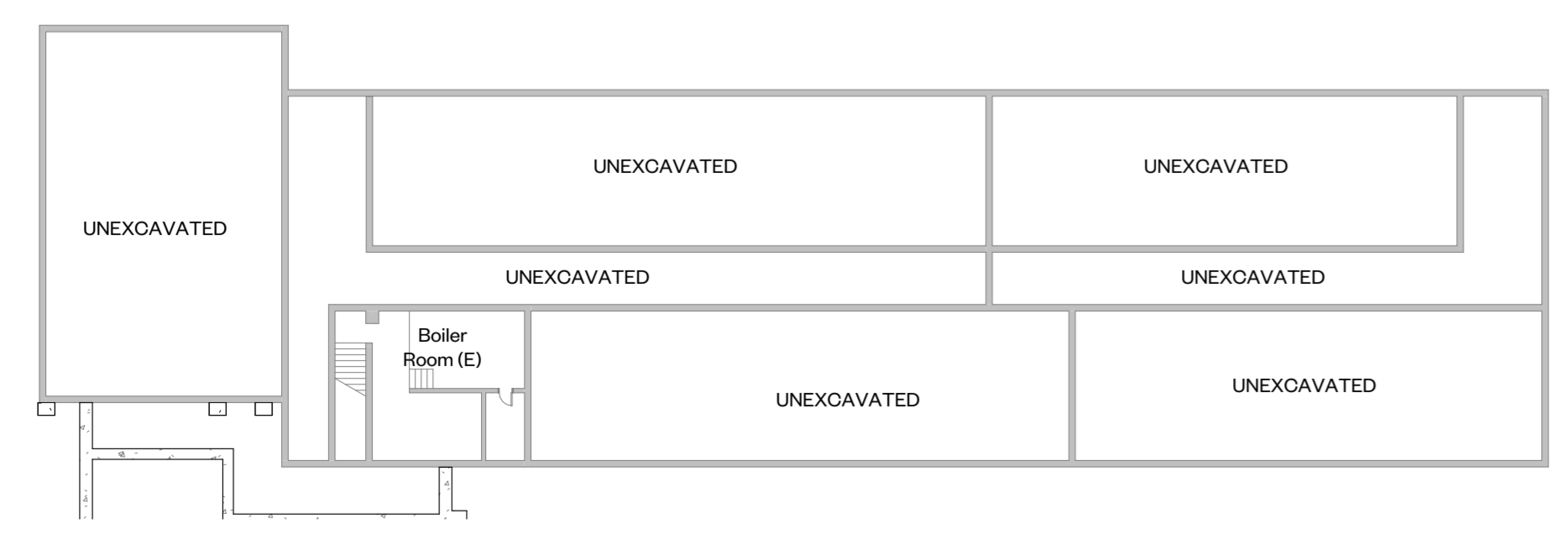
1 Context Plan
N.T.S.

Sheet List	
Sheet Number	Sheet Name
ARCHITECTURAL	
A0.0	OBC Matrix, Life Safety Plan, Key Plan
A0.1	Schedules
A0.5	Site Plan
A1.0	Demolition & Proposed in Existing School
A2.0	Foundation Plan, Exterior Details
A2.1	Proposed Plans
A2.2	RCP, Roof Plan, Roof Details
A3.0	Building Sections & Exterior Elevations
A3.1	Wall Sections, Window Details
A3.2	Wall Sections
A4.0	Interior Elevations
A4.1	Detail Plans & Interior Elevations
A5.0	Millwork Details
A5.1	Millwork Details
CIVIL	
C0.1	Existing Condition, Removal and Erosion and Sediment Control Plan
C0.2	Site Grading and Servicing Plan
STRUCTURAL	
S-1	Foundation Plan, Key Plan, Notes and Details
S-2	Foundation Sections and Details
S-3	Roof Framing Plan, Notes and Details
S-4	Roof Framing Sections and Details
S-5	Specifications and Schedules
MECHANICAL	
M0.1	Mechanical Legend & Drawings List
M1.0	Mechanical Key Plan
M2.0	Plumbing - Foundation Plan
M2.1	Plumbing - Ground & Roof Plan - New Work
M3.1	HVAC Piping - Ground Floor New Work
M4.1	HVAC - Ventilation Ground Floor New Work
M5.1	Fire Protection - Ground Floor New Work
M6.0	Mechanical Control Sequences
M7.0	Mechanical Schedules
M8.0	Mechanical Details 1
M8.1	Mechanical Details 2
M8.2	Mechanical Details 3
ELECTRICAL	
E0.0	Electrical Legend & Sheet List
E0.1	Demolition Site Plan - Electrical
E0.2	New Work Site Plan - Electrical
E2.1	Electrical Ground Floor New Work Plans
E2.2	Electrical Roof New Work Plan
E3.1	Electrical Schedules
E3.2	Electrical Details
E3.3	Electrical Details
LANDSCAPE	
L1.1	Landscape Plan Overview
L1.2	Landscape Plan Enlargement
L1.3	Proposed Landscape Plan Details I
L1.4	Proposed Landscape Plan Details II
L1.5	Proposed Landscape Plan Details III

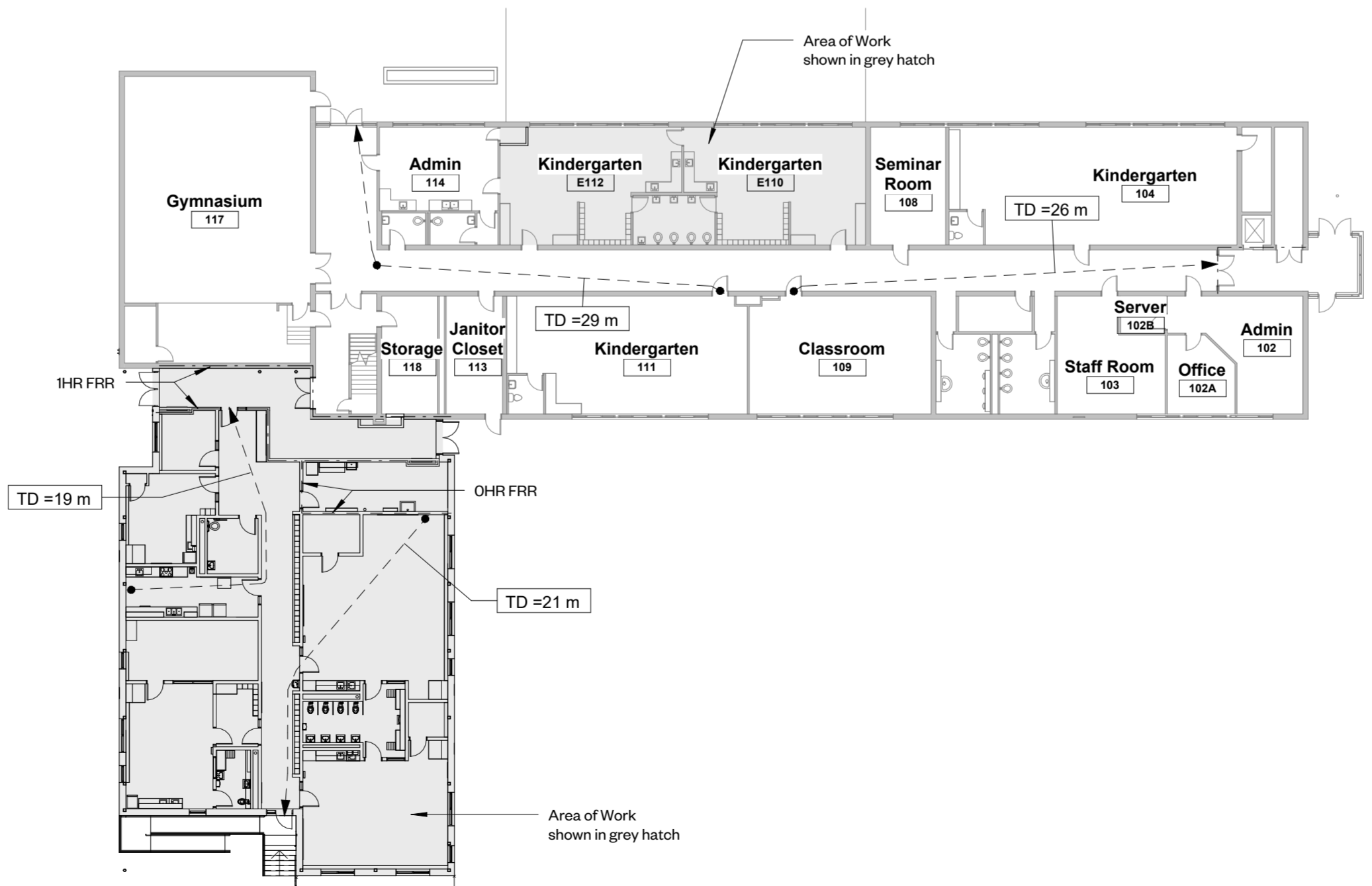
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Rev	Description	Date
4	60% Client Review	2022-11-11
5	Reissued for 60% Client Review	2023-01-25
6	Issued for 80% Costing	2023-02-27
14	Issued for 90% Client Review	2024-10-02
15	Issued for Permit	2024-12-11
16	Issued for Tender	2025-01-14

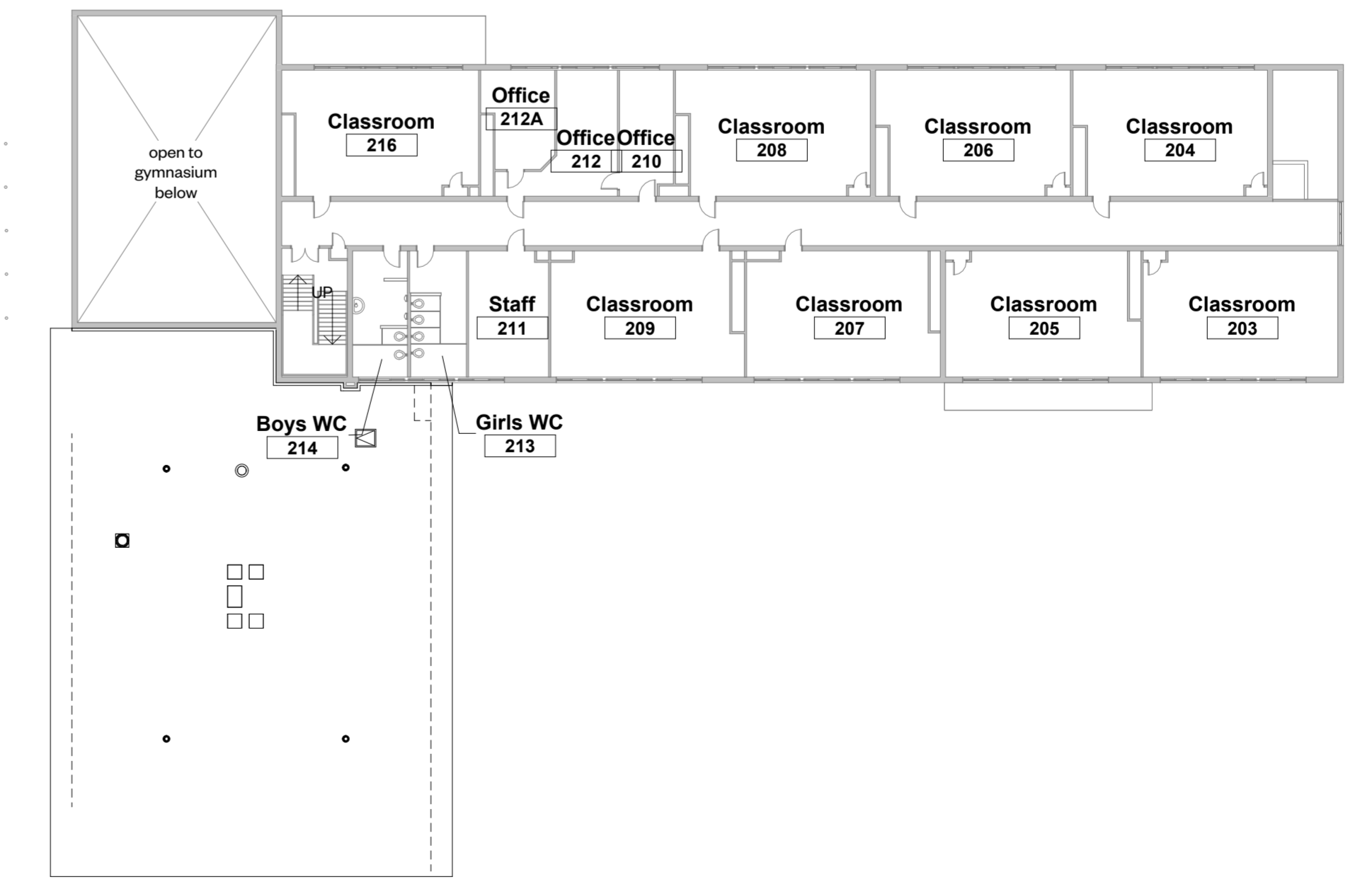
- Life Safety Plan Legend**
- Travel Distance (TD)
Max allowable in existing non-sprinklered school = 30m
Max allowable in addition = 45m
 - Shaded area indicates scope of work
 - OHR FRR
 - IHR FRR



4 Boiler Room Key Plan
1 : 300



2 Level 1 Key Plan
1 : 300



3 Level 2 Key Plan
1 : 300

WORKSHOP

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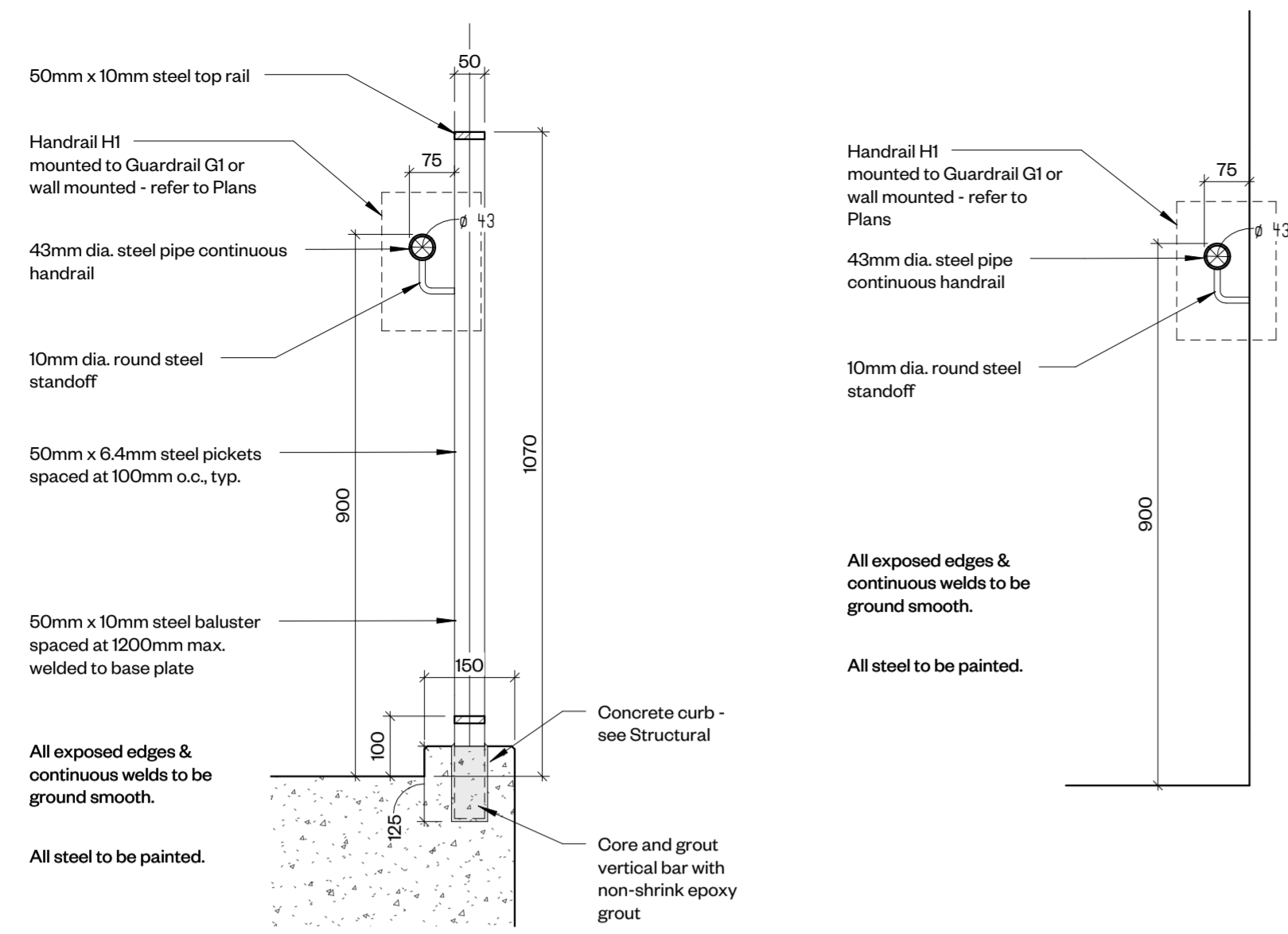
CSV Renaissance Child Care Addition

1226 Lockhart Rd
 Burlington, ON L7S 1H1

PROJECT CODE:	SCALE:
2205	As indicated
DATE:	STATUS:
2025-01-16	Issued for Tender

OBC Matrix, Life Safety Plan, Key Plan





1 Guardrail G1
1 : 10

2 Handrail H1
1 : 10

ASSEMBLY SCHEDULE

1. USE WATER RESISTANT DRYWALL IN ALL WET AREAS - REFER TO SPECIFICATION 09 21 00, 213
2. PROVIDE CONTINUOUS PLYWOOD BLOCKING BEHIND ALL MILLWORK CABINETS, SUSPENDED ITEMS, TELEVISIONS ETC (TYP)
3. ALL INTERNAL PARTITIONS EXTEND TO U/S DECK ABOVE UNLESS NOTED OTHERWISE.
4. PROVIDE FIRE RESISTANCE RATINGS AS INDICATED ON DRAWINGS

FLOOR ASSEMBLY

Floor F1 (min R-15 value)
FLOOR FINISH AS SCHEDULED
125mm POURED IN PLACE CONCRETE SLAB
CONTINUOUS BELOW GRADE VAPOUR BARRIER (VB-01)
100mm CONTINUOUS BELOW SLAB RIGID INSULATION (INS-01)
ENGINEERED BASE/GRAVULAR FILL

ROOF ASSEMBLY

Roof R1 (min R-350)
MODIFIED BITUMEN CAP & BASE SHEET (RM-01)
ASPHALT IMPREGNATED OVERLAY BOARD
TAPERED MINERAL WOOL INSULATION TO MAKE UP SLOPE (INS-04b)
75mm DJAL DENSITY MINERAL WOOL INSULATION (INS-04b)
100mm CONTINUOUS POLYISO INSULATION (INS-04a)
CONTINUOUS SELF ADHERED VAPOUR BARRIER (VB-02)
STEEL ROOF DECK & SUPPORT STRUCTURE (see structural)

Underside of roof deck is exposed - no fasteners permitted through roof deck

FIRE-RATED BULKHEAD ASSEMBLY

ROOF ASSEMBLY AS SCHEDULED AS SCHEDULED
DRYWALL SUSPENSION SYSTEM
3 LAYERS 15.9mm Type X GYPSUM WALL BOARD
12.5mm RESILIENT CHANNELS
1 LAYER 15.9mm Type X GYPSUM WALL BOARD
(ULC Design No. K504)

INTERIOR PARTITIONS

- PW1 190mm CMU PARTITION (CMU-01)
Capable of achieving 1HR FRR where scheduled
- PW2 1 LAYER 15.9mm TYPE X GYPSUM WALLBOARD
92mm STEEL STUDS
ACOUSTICAL FIRE BATT INSULATION
1 LAYER 15.9mm TYPE X GYPSUM WALLBOARD TO U/S OF DECK
Capable of achieving 1HR FRR where scheduled per (ULC Design No. W407)
- PW3 140mm CMU PARTITION (CMU-01)
Capable of achieving 1HR FRR where scheduled
- PW4 SHAFT WALL
Capable of achieving 2HR FRR where scheduled
25mm Type X GYPSUM WALL BOARD
C-H CHANNELS
2 LAYERS 15.9mm Type X GYPSUM WALL BOARD (ULC Design No. K504)
- FW1 1 LAYER 15.9mm TYPE X GYPSUM WALLBOARD
92mm STEEL STUDS
TO U/S OF DECK UNLESS NOTED OTHERWISE

EXTERIOR PARTITIONS

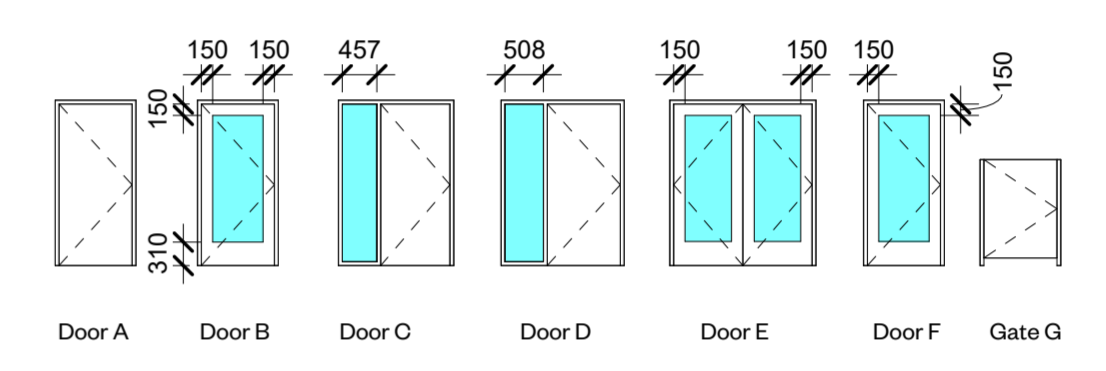
- EW1 Min R-Value R70i
190mm CONCRETE BLOCK
CONTINUOUS AIR/VAPOUR BARRIER
100mm MINERAL WOOL CAVITY INSULATION
25mm AIRSPACE
90mm BRICK CLADDING or CERAMIC GLAZED CLAY MASONRY as per drawings (BRK-01) (GLB)
- EW2 Min R-Value R70i
190mm CONCRETE BLOCK
CONTINUOUS AIR/VAPOUR BARRIER
100mm MINERAL WOOL CAVITY INSULATION
25mm AIRSPACE
10mm FIBRE-CEMENT CLADDING (GFRC-01)
- FD1 Foundation Wall FD1 Min R-Value R15
190mm CAST-IN-PLACE CONCRETE DAMPROOFING
130mm GPS RIGID INSULATION
90mm CONCRETE BLOCK (RWP-01)
- FD1b Foundation Wall FD1 Min R-Value R15 same as FD1 with no block ledge
- FD2 Foundation Wall FD2
190mm CAST-IN-PLACE CONCRETE
- FD3 Foundation Wall FD3
240mm CAST-IN-PLACE CONCRETE
- FD4 Foundation Wall FD4
550mm CAST-IN-PLACE CONCRETE

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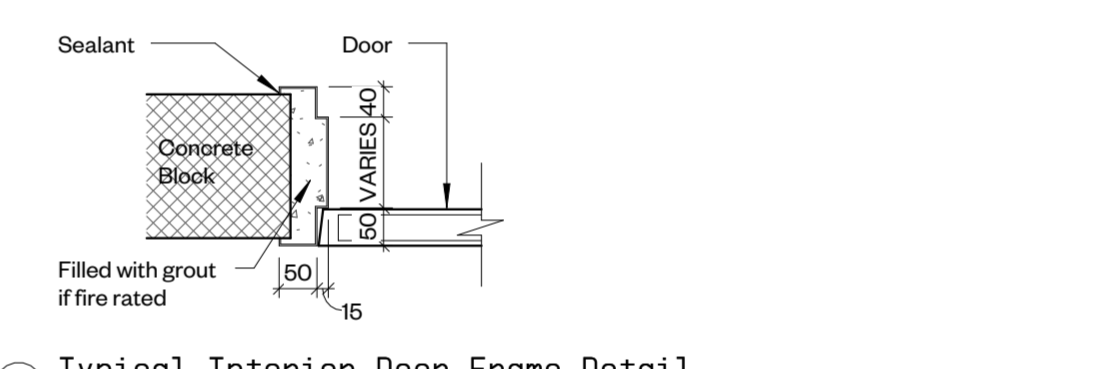
Rev	Description	Date
14	Issued for 90% Client Review	2024-10-02
15	Issued for Permit	2024-12-11
16	Issued for Tender	2025-01-14

Room Finish Schedule						
Room No.	Room Name	Wall Finish	Floor Finish	Base Finish	Ceiling Finish	Comments
AI-101	Link	PT	POR/RES	POR/RES	ACT	
AI-102	Corridor	PT	POR/RES	POR/RES	ACT/GWB	
AI-103	Office	PT	RES1	RB	ACT	
AI-104	Universal WC	PT	POR	POR	ACT	
AI-105	Staff	DAI-104	RES1	RB	ACT	
AI-106	Servery	PT	POR	-	ACT	
AI-107	Laundry/Utility	PT	POR	POR	EXP	
AI-108	Preschool	PT	RES1	RB	ACT/GWB	
AI-109	Preschool Storage	PT	RES1	RB	ACT	
AI-110	Shared Children's WC	PT	RES2	RB	ACT	
AI-111	Toddler	PT	RES1	RB	ACT/GWB	
AI-112	Toddler Storage	PT	RES1	RB	ACT	
AI-113	Infant	PT	RES1	RB	ACT/GWB	
AI-114	Infant Cubbies	PT	RES1	RB	ACT	
AI-115	Infant Change/WC	PT	RES2	RB	ACT	
AI-116	Infant Sleep Area	PT	RES1	RB	ACT	
AI-117	Vestibule	PT	POR	-	ACT	
AI-118	Mech. Closet	PT	RES1	RB	EXP	
E110	Kindergarten	PT	RES1	RB	ACT	Separate Price
E112	Kindergarten	PT	RES1	RB	ACT	Separate Price

Door Schedule													
Door No.	Room	Type Mark	Height	Width	Door Mat	Finish	Frame Material	Frame Fin.	Fire Rating	Card Reader	Intercom	Lockdown Blind	Comments
DAI-101a	Link 101	E	2134	965	ALUM/TGL	-	ALUM	-				No	
DAI-101b	Link 101	E	2134	965	ALUM/TGL	-	ALUM	-		Yes	Yes	No	auto operator
DAI-102	Corridor 102	C	2134	965	HM	PT	HM	PT	45 min	Yes	Yes	No	auto operator
DAI-103	Office 103	D	2134	965	HM	PT	HM	PT			Yes	Yes	
DAI-104	Universal WC 104	A	2134	965	HM	PT	HM	PT				No	auto operator
DAI-105	Staff 105	C	2134	965	HM	PT	HM	PT				Yes	
DAI-106	Kitchen 106	C	2134	965	HM	PT	HM	PT				Yes	
DAI-107	Utility/Laundry 107	A	2134	965	HM	PT	HM	PT	45 min			No	
DAI-108	Preschool 108	C	2134	965	HM	PT	HM	PT				Yes	
DAI-109	Preschool Storage	A	2134	965	HM	PT	HM	PT				No	
DAI-110a	Shared WC 110	B	2134	965	HM	PT	HM	PT	-			No	
DAI-110b	Shared WC 110	B	2134	965	HM	PT	HM	PT	-			No	
DAI-111	Toddler 111	C	2134	965	HM	PT	HM	PT				Yes	
DAI-112	Toddler Storage 112	A	2134	965	HM	PT	HM	PT	45 min			No	
DAI-114	Infant Cubbies/Dressing	C	2134	965	HM	PT	HM	PT				Yes	
DAI-115	Infant Change/WC	B	2134	965	HM	PT	HM	PT	-			No	
DAI-116	Infant Sleep Area	B	2134	965	HM	PT	HM	PT	-			No	
DAI-118	Mech. Closet 118	A	2134	914	HM	PT	HM	PT				No	louvered panel in door
DAI-122	Link 101	E	2134	1829	HM	PT	HM	PT	45 min	Yes		No	
DAI-123	Corridor 102	F	2134	965	ALUM/TGL	-	ALUM	-		Yes	Yes	No	auto operator
DAI-125	Link 101	E	2134	1930	ALUM/TGL	-	ALUM	-		Yes		No	auto operator
GAI-113	Infant Cubbies/Dressing	G	1400	965	HM	PT	HM	PT				No	gate



NOTE: All glazing to be tempered
NOTE: All fire rated assemblies to be fire rated glass
NOTE: All HM frames to be 2" profile



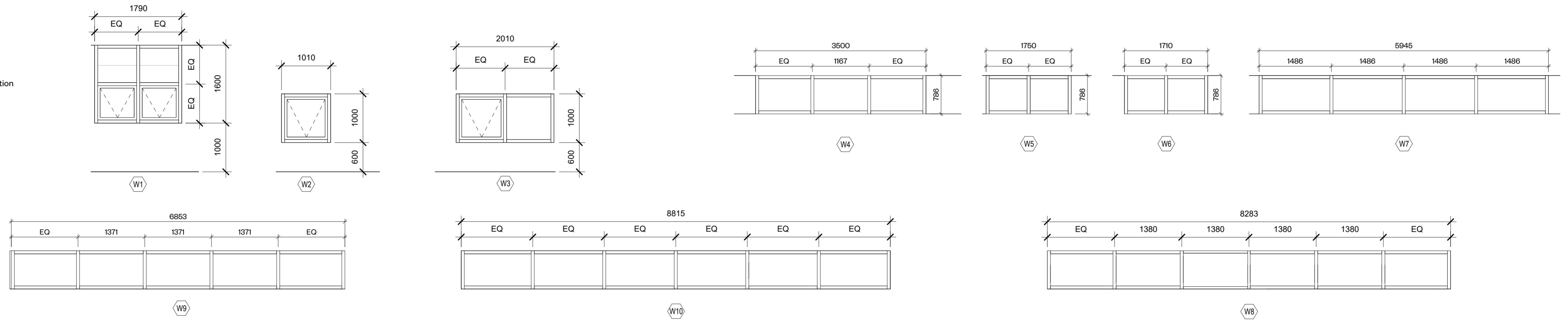
3 Typical Interior Door Frame Detail
1 : 10

Membrane Legend	
	AVB-01 - Vapour permeable air/weather barrier (at above-grade walls)
	AVB-02 - Transition membrane (at openings/transitions)
	VB-01 - Vapour barrier (at slab-on-grade)
	VB-02 - Vapour barrier (at roof)
	WRB-01 - Weather resistant barrier (at rainscreen cladding)
	WRB-02 - Weather resistant roofing underlayment
	RWP-01 - Fluid Applied Damproofing (exterior below-grade walls)

EXTERIOR ALUMINUM WINDOW SCHEDULE

All exterior window glazing to have bird-friendly Ceramic Frit (CF) pattern - refer to Specification

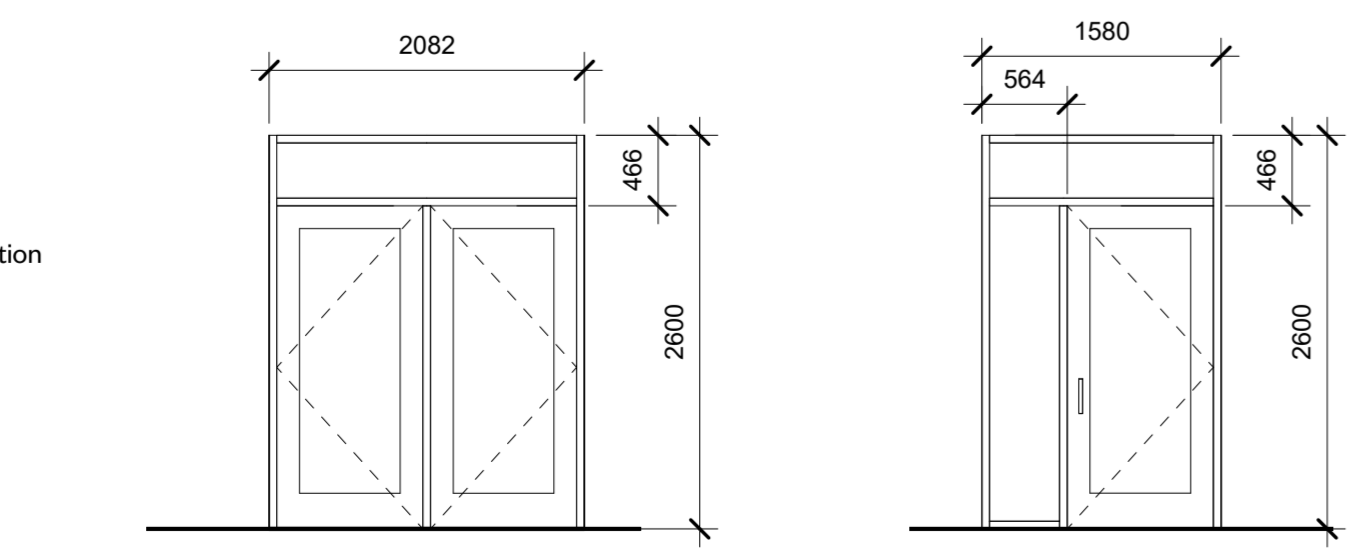
All exterior glazing to be IGU-01, refer to specification for make-up



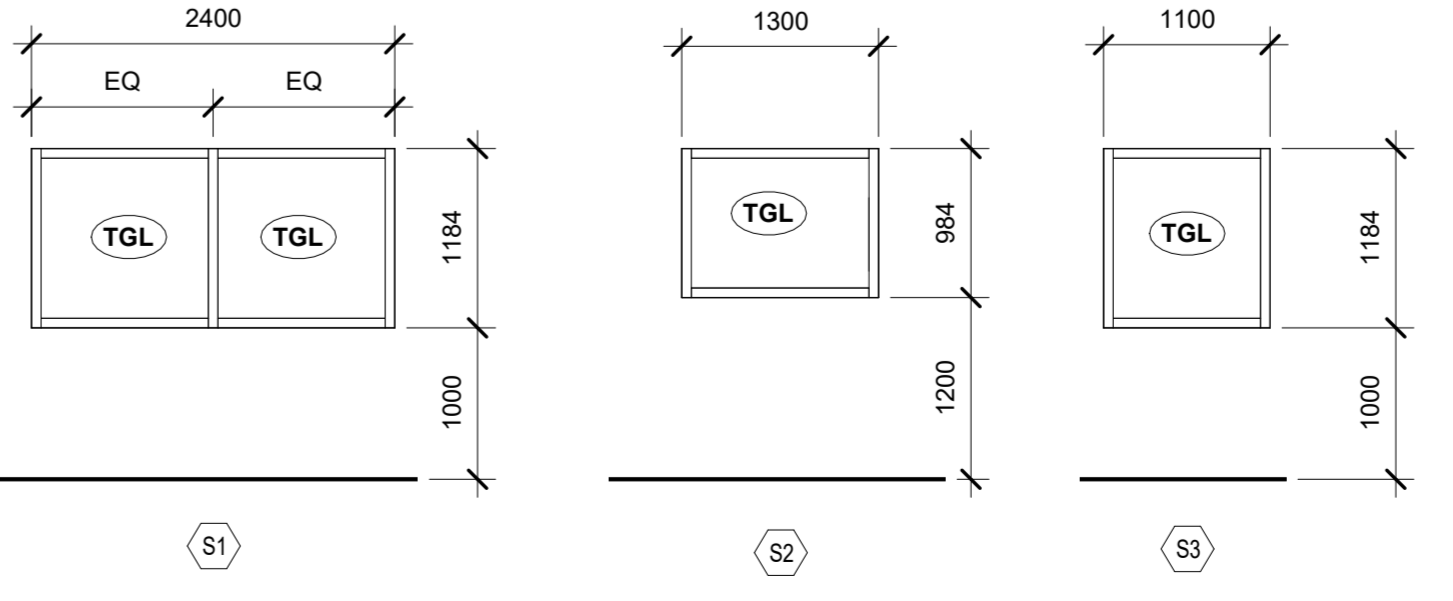
EXTERIOR ALUMINUM SCREEN SCHEDULE

All exterior window glazing to have bird-friendly Ceramic Frit (CF) pattern - refer to Specification

All exterior glazing to be IGU-01, refer to specification for make-up



INTERIOR HOLLOW METAL SCREEN SCHEDULE



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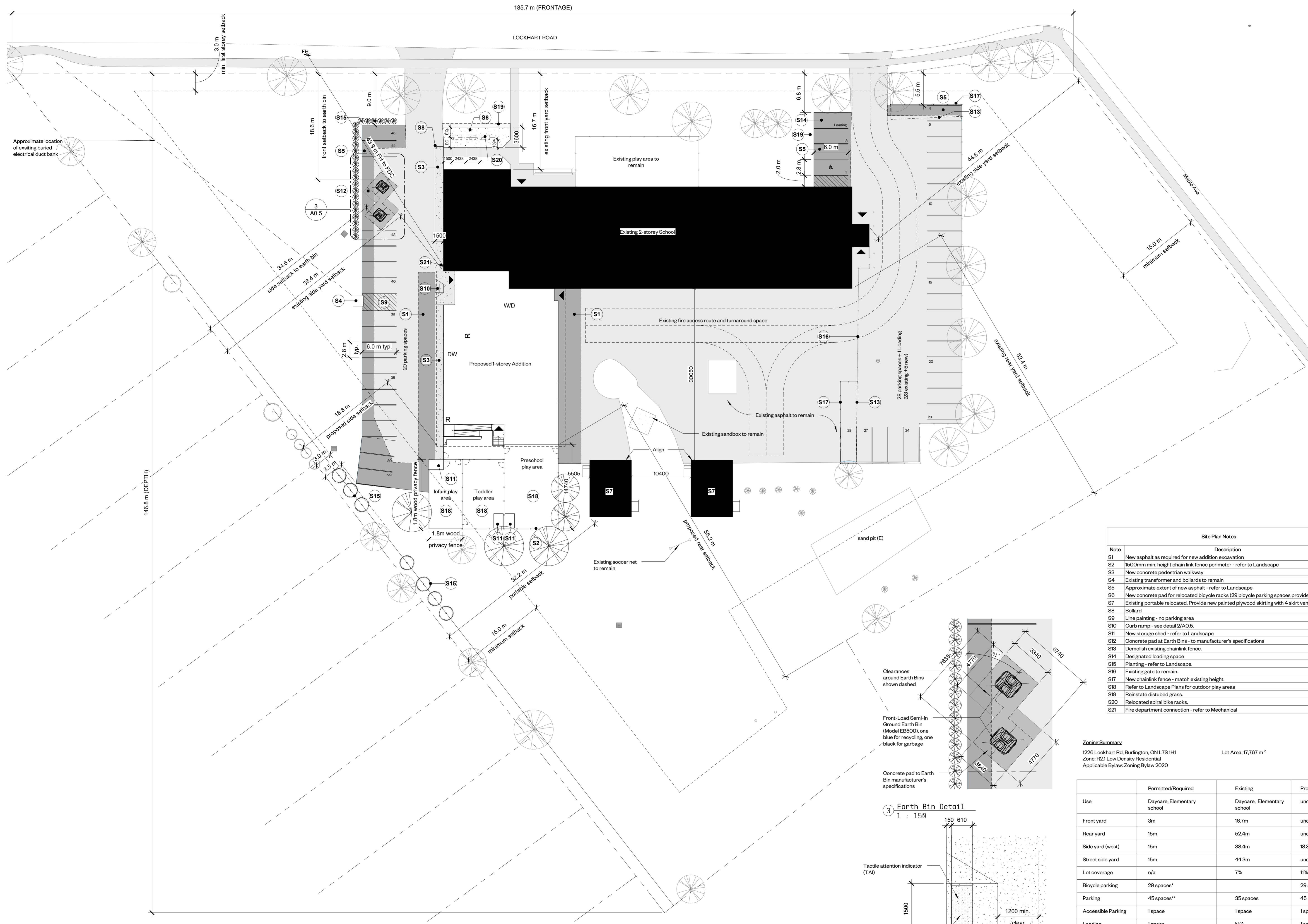
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CSV Renaissance Child Care Addition

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Burlington, ON L7S 1H1

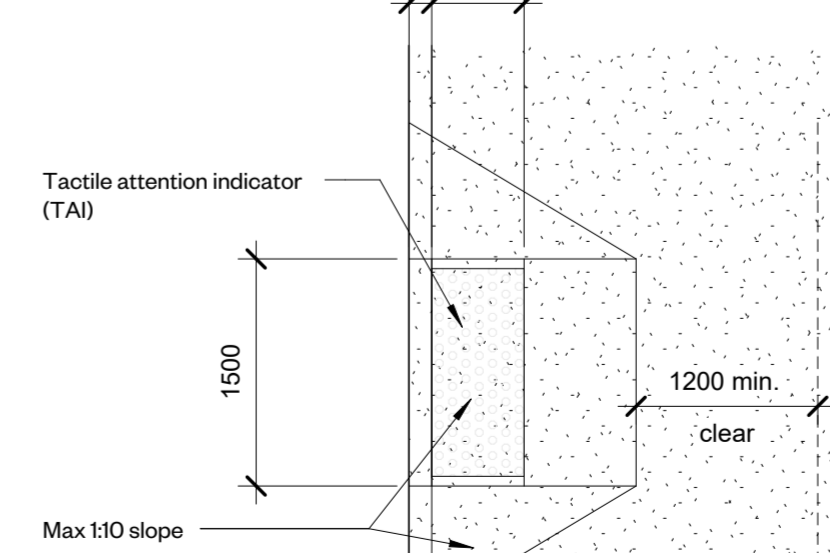
PROJECT CODE:	SCALE:
2205	As indicated
DATE:	STATUS:
2025-01-16	Issued for Tender

Schedules



1 Site Plan - Proposed
1 : 300

3 Earth Bin Detail
1 : 150



2 Curb Ramp Detail
1 : 50



Site Plan Notes	
Note	Description
S1	New asphalt as required for new addition excavation
S2	1500mm min. height chain link fence perimeter - refer to Landscape
S3	New concrete pedestrian walkway
S4	Existing transformer and bollards to remain
S5	Approximate extent of new asphalt - refer to Landscape
S6	New concrete pad for relocated bicycle racks (29 bicycle parking spaces provided)
S7	Existing portable relocated. Provide new painted plywood skirting with 4 skirt vents.
S8	Bollard
S9	Line painting - no parking area
S10	Curb ramp - see detail 2/AO.5.
S11	New storage shed - refer to Landscape
S12	Concrete pad at Earth Bins - to manufacturer's specifications
S13	Demolish existing chainlink fence.
S14	Designated loading space
S15	Planting - refer to Landscape.
S16	Existing gate to remain.
S17	New chainlink fence - match existing height.
S18	Refer to Landscape Plans for outdoor play areas
S19	Reinstate disturbed grass.
S20	Relocated spiral bike racks.
S21	Fire department connection - refer to Mechanical

Zoning Summary
 1226 Lockhart Rd, Burlington, ON L7S 1H1
 Zone: R2.1 Low Density Residential
 Applicable Bylaw: Zoning Bylaw 2020
 Lot Area: 17,767 m²

Use	Permitted/Required	Existing	Proposed
Daycare, Elementary school	Daycare, Elementary school	Daycare, Elementary school	unchanged
Front yard	3m	16.7m	unchanged
Rear yard	15m	62.4m	unchanged
Side yard (west)	15m	38.4m	18.8m
Street side yard	15m	44.3m	unchanged
Lot coverage	n/a	7%	11%
Bicycle parking	29 spaces*		29 spaces
Parking	45 spaces**	36 spaces	45 spaces
Accessible Parking	1 space	1 space	1 space
Loading	1 space	N/A	1 space

* 262 students @ 1 space per 10 students = 27 spaces required
 36 employees @ 1 space per 35 employees = 2 space
 ** 15 classrooms (including 2 portables) @ 15 spaces per classroom = 22.5 = 23 spaces required
 535m² daycare GFA @ 4 spaces per 100 m² GFA = 21.5 = 22 spaces required
 Total required = 23 + 22 = 45 spaces required

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1	Issued for Class C Costing	2022-07-27
4	60% Client Review	2022-11-11
5	Reissued for 60% Client Review	2023-01-25
6	Issued for 80% Costing	2023-02-27
7	Issued for SPA	2023-03-13
10	Issued for Minor Variance	2024-03-14
11	SPA Response	2024-05-08
12	Minor Variance Revision	2024-05-28
13	Site Plan Revision	2024-08-28
14	Issued for 90% Client Review	2024-10-02
15	Issued for Permit	2024-12-11
16	Issued for Tender	2025-01-14

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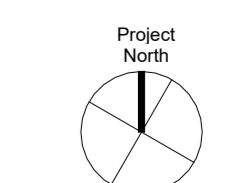
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 6 Sousa Mendes Street
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 416.991.8955
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CSV Renaissance Child Care Addition

1226 Lockhart Rd
 Burlington, ON L7S 1H1

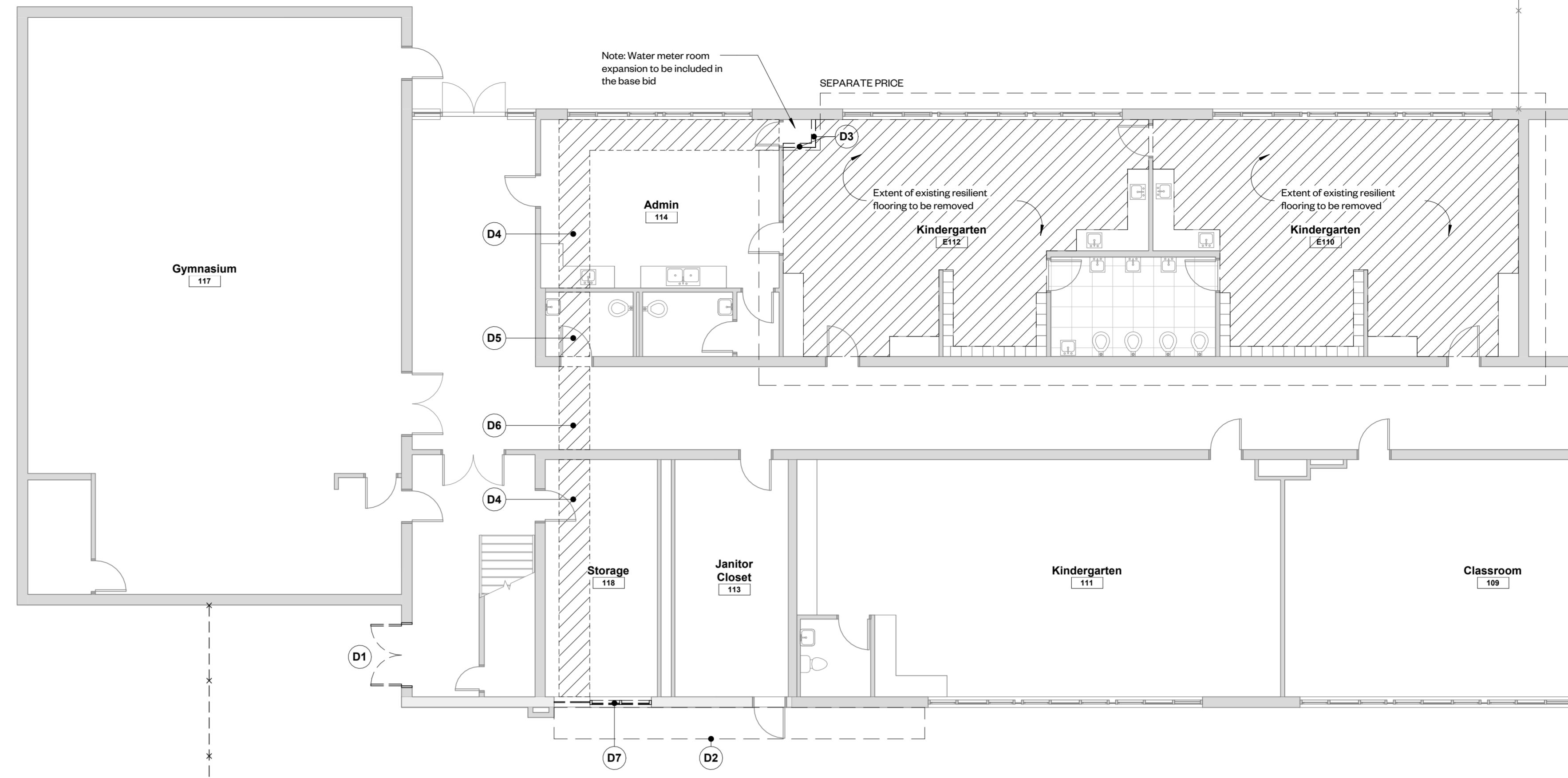
PROJECT CODE:	SCALE:
2205	As indicated
DATE:	STATUS:
2025-01-16	Issued for Tender

Site Plan

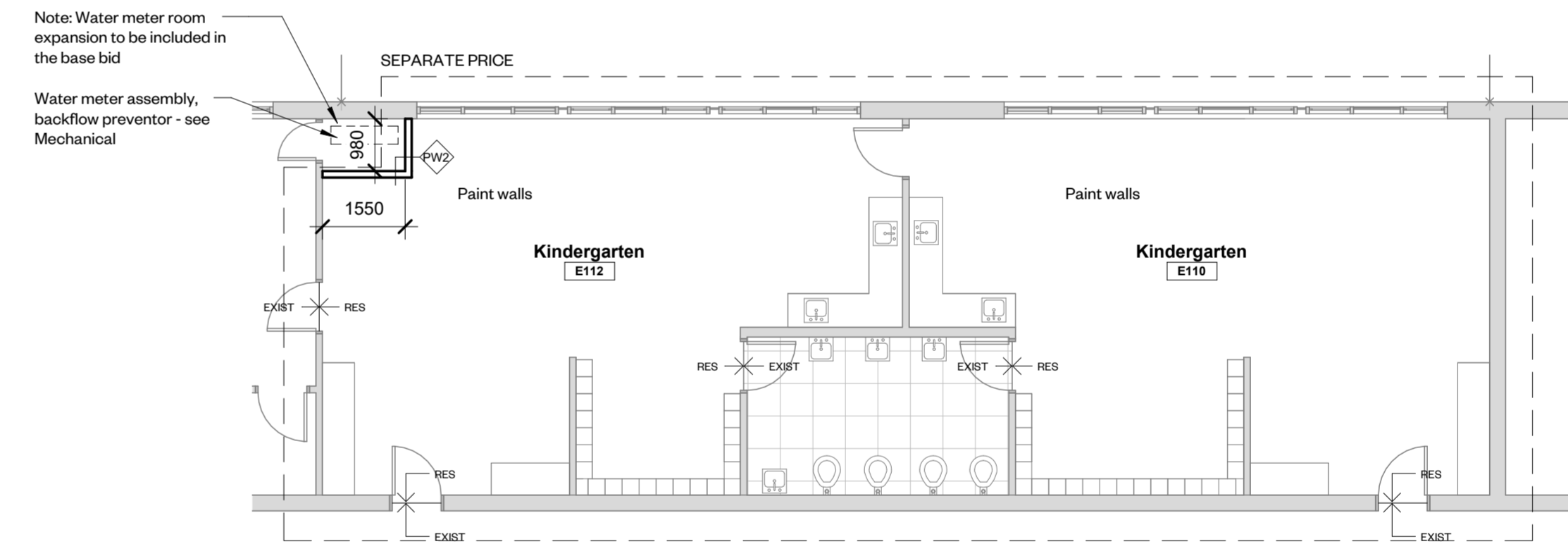


AO.5

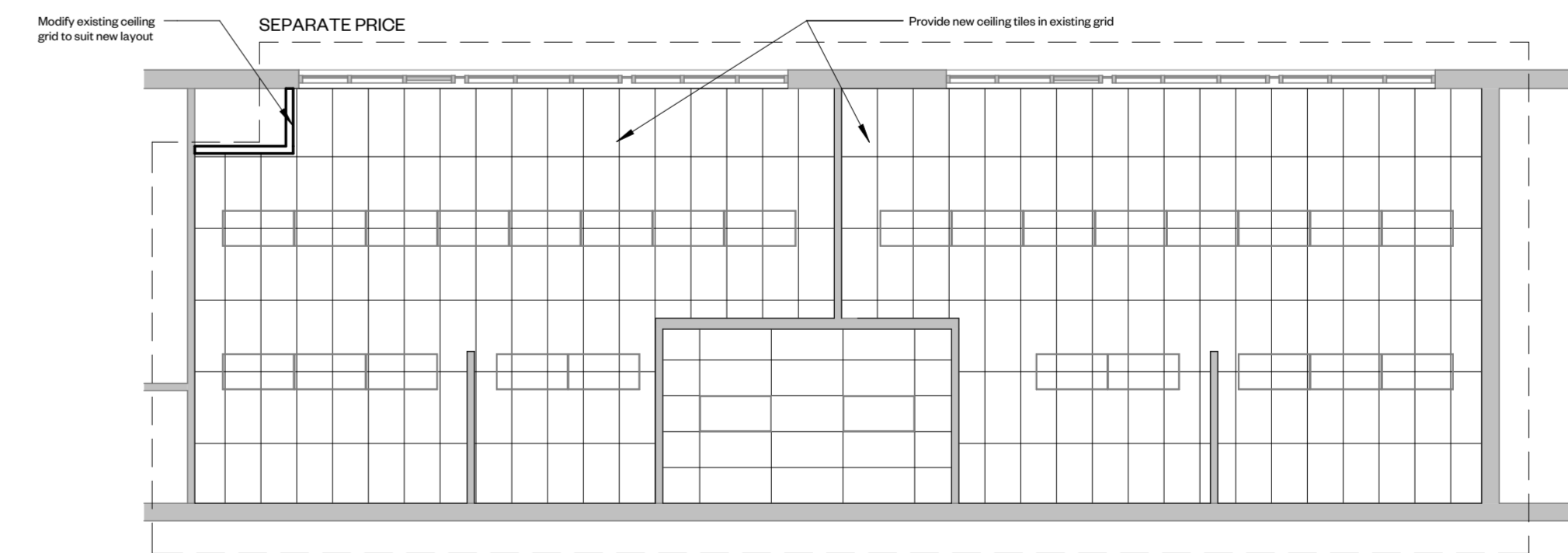
Demolition Notes	
Note	Description
D1	Demolish existing door and frame
D2	Demolish existing overhang. Patch brick as required to match existing.
D3	Demolish existing partition.
D4	Approximate extent of resilient floor finish repair to facilitate below-slab pipe replacement
D5	Approximate extent of porcelain tile floor finish repair to facilitate below-slab pipe replacement
D6	Approximate extent of terrazzo floor finish repair to facilitate below-slab pipe replacement
D7	Demolish existing window, infill door panel, and louver (see Mechanical). Wall to be infilled to match existing.



1 Demolition Plan - Level 1
1 : 100



2 Proposed Plan - Existing Classrooms
1 : 100



3 Proposed RCP - Existing Classrooms
1 : 100

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4	60% Client Review	2022-11-11
5	Reissued for 60% Client Review	2023-01-25
6	Issued for 80% Costing	2023-02-27
14	Issued for 90% Client Review	2024-10-02
15	Issued for Permit	2024-12-11
16	Issued for Tender	2025-01-14

Demolition Legend

- Existing CMU partition to be demolished
- Existing wall partition system to be demolished
- Existing element to be demolished
- Approximate extent of flooring to be removed
- Approximate extent of ceiling to be removed
- Existing door leaf and frame to be demolished

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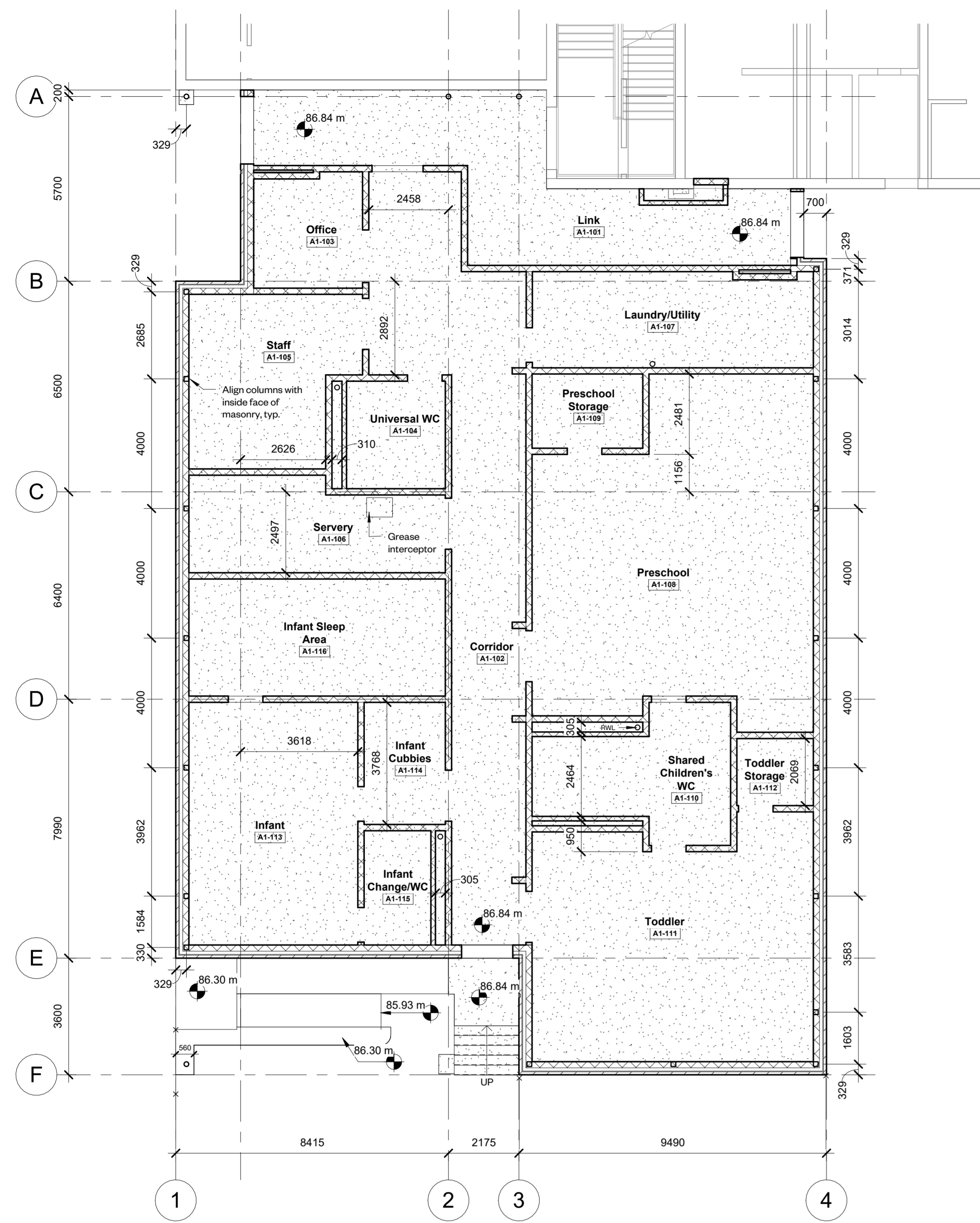
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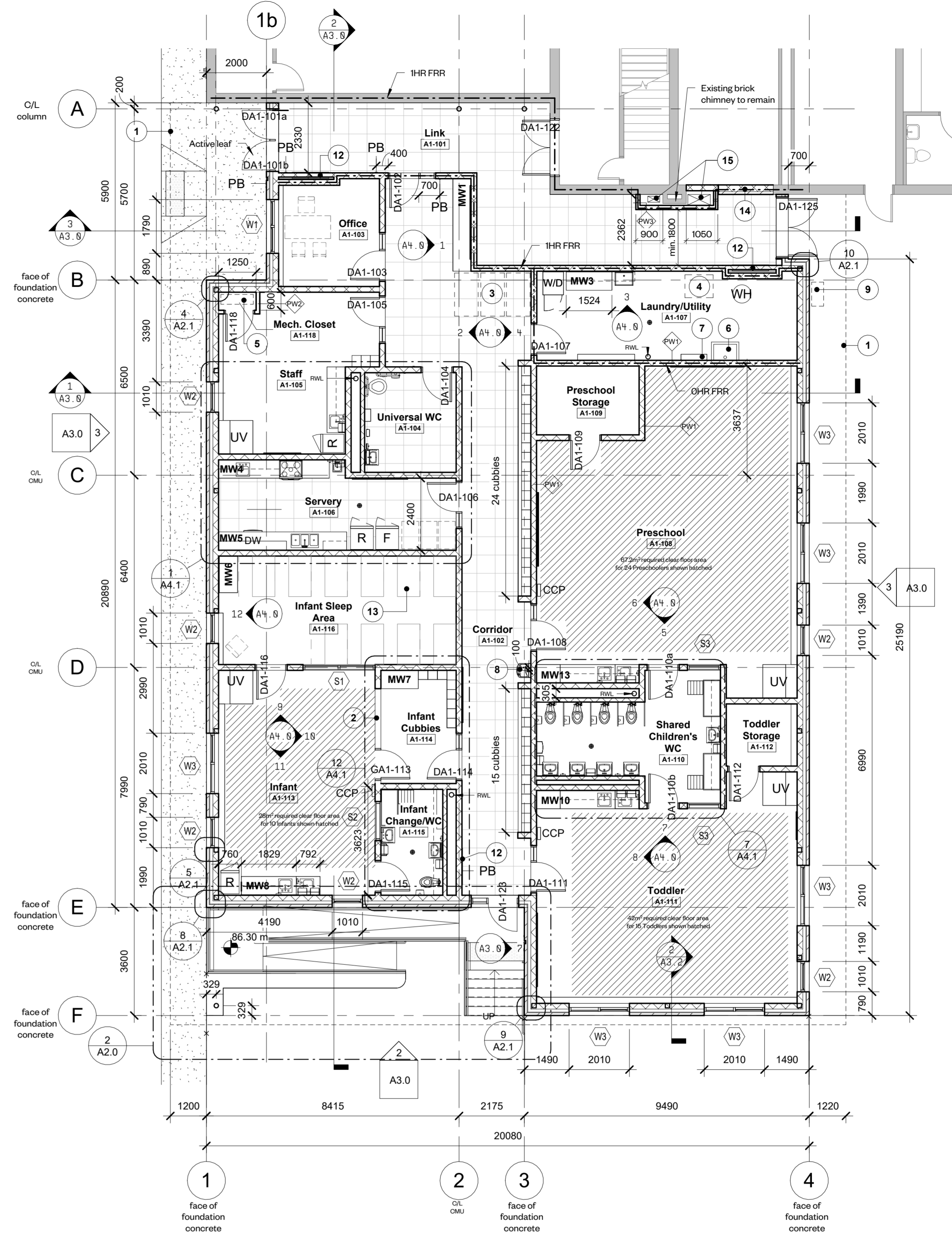
Demolition & Proposed in Existing School



2 Proposed Slab Plan
1 : 100

Windows Areas	Required	Provided
Infant	3.9m ² (10% of 39m ² room area)	6.2m ²
Infant Rest	1.4m ² (5% of 28.5m ² room area)	1.8m ²
Toddler	6.2m ² (10% of 61.5m ² room area)	15.4m ²
Preschool	8.1m ² (10% of 80.5m ² room area)	9.8m ²

General Notes	
Note	Description
1	Line of canopy above
2	1400mm wall - refer to detail 11/A4.1 for sill detail
3	Stroller parking area
4	Roof hatch & access ladder
5	Water meter and vertical backflow preventor - see Mechanical
6	Mop sink
7	Utility shelf with hooks and mop holders
8	Drinking fountain/bottle filler - refer to Mechanical
9	Relocated gas meter assembly. Provide new painted steel protective enclosure.
10	Tactile attention indicator
11	50mm painted contrast strip
12	Recessed forced flow heater - see Mechanical
13	Cribs (NLC)
14	CMU infill wall with brick cladding to match existing brick at location of demolished window and door opening.
15	Exhaust and intake ducts - refer to Mechanical

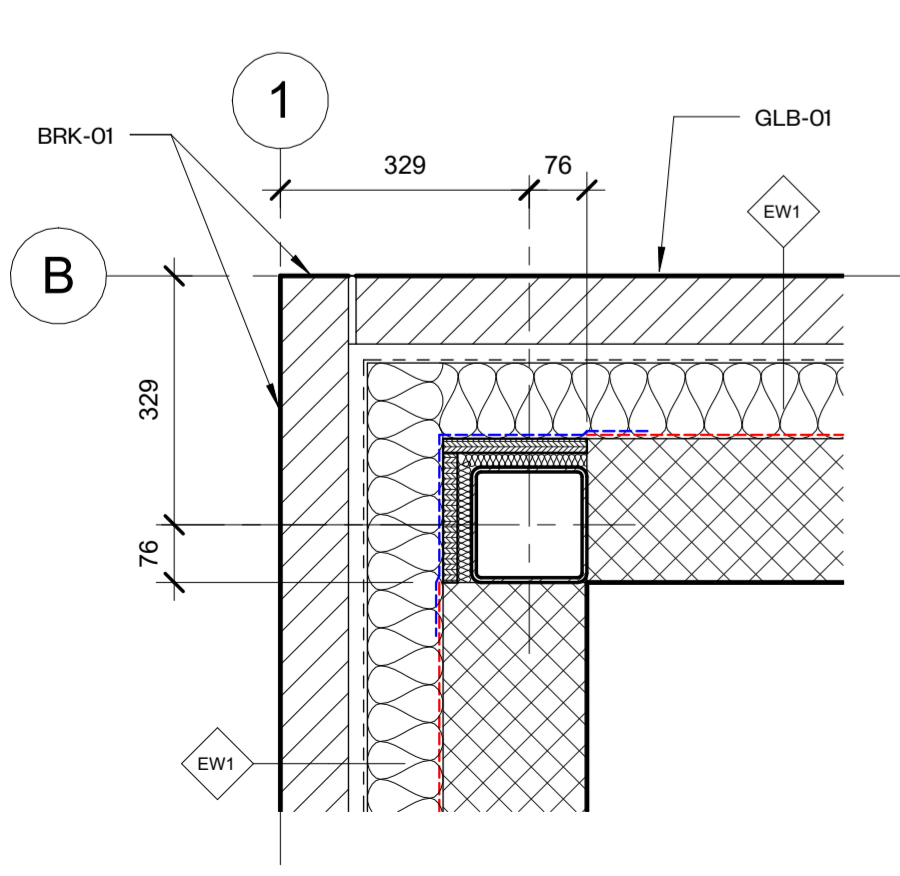


1 Proposed Plan - Level 1
1 : 100

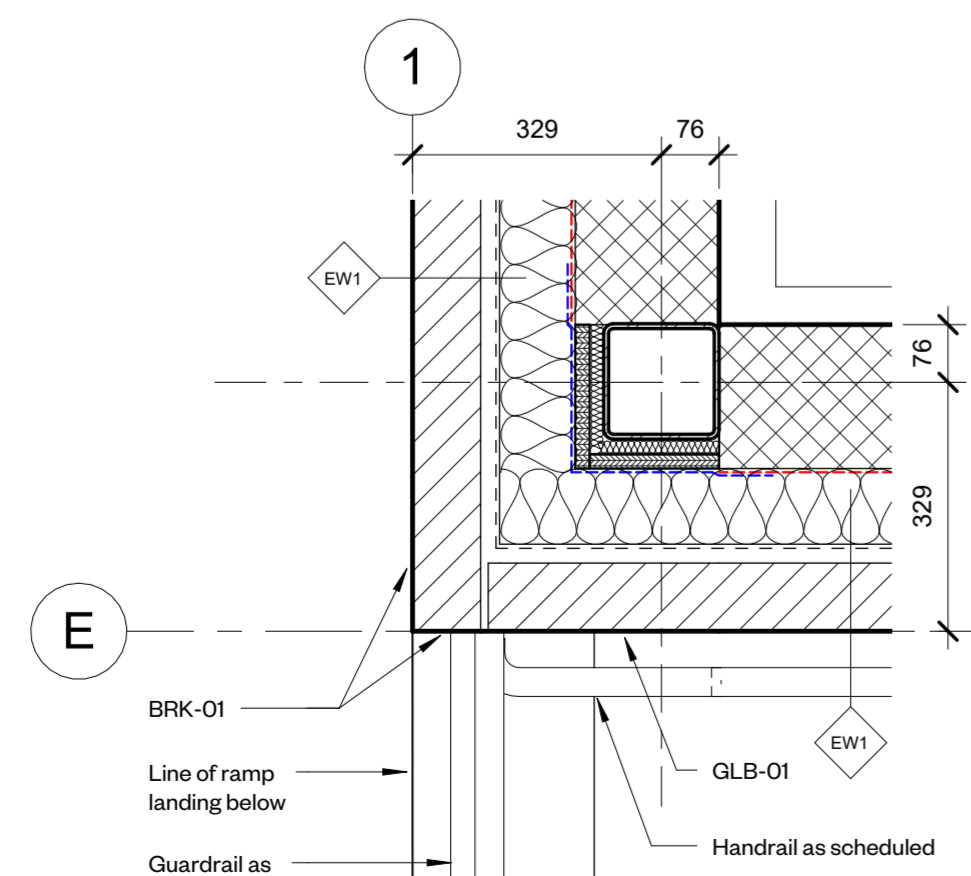
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4	60% Client Review	2022-11-11
5	Reissued for 60% Client Review	2023-01-25
6	Issued for 80% Costing	2023-02-27
10	Issued for Minor Variance	2024-03-14
14	Issued for 90% Client Review	2024-10-02
15	Issued for Permit	2024-12-11
16	Issued for Tender	2025-01-14

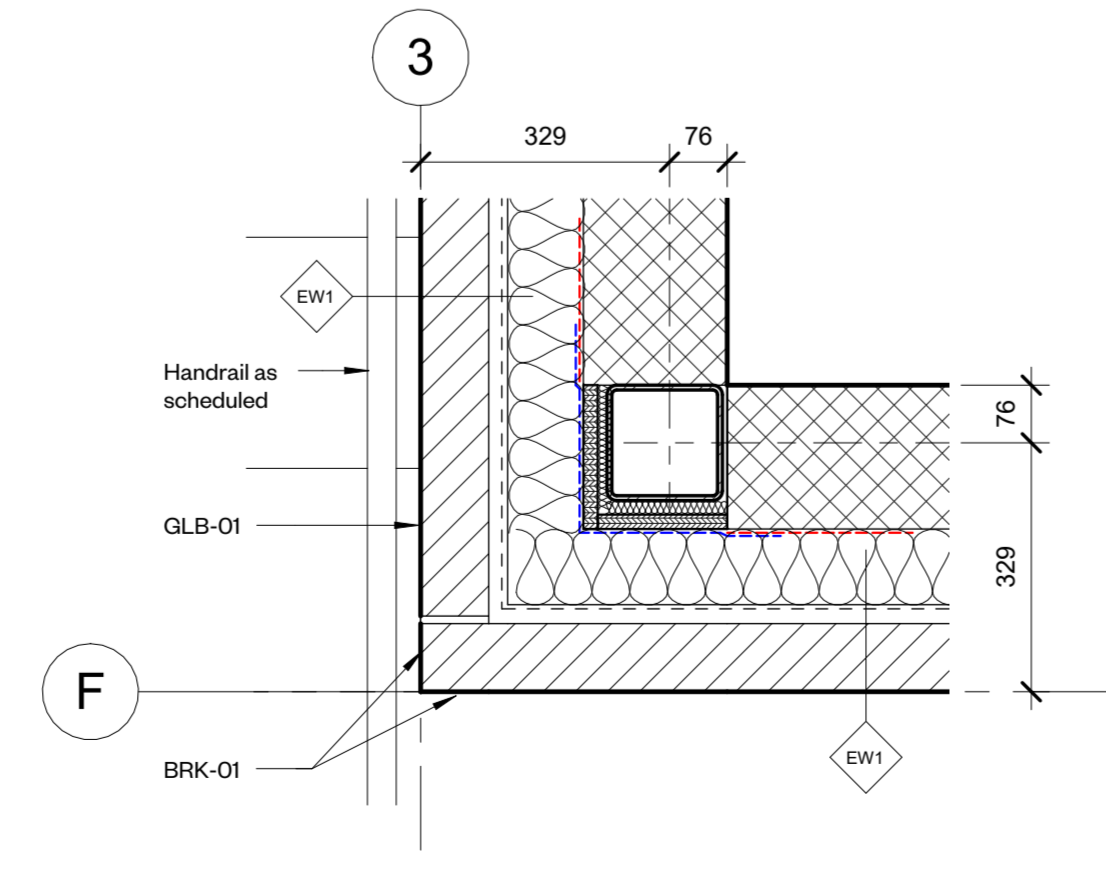
- Legend**
- Existing partition to remain
 - New partition as scheduled
- Symbols Legend**
- Partition Tag - refer to partition schedule
 - Exterior Wall Tag - refer to partition schedule
 - Window tag - refer to schedule
 - Glazed Screen tag - refer to schedule
 - New Door tag - refer to schedule
 - Millwork Tag
 - Ceiling Material Height above Finished Floor
 - Existing
 - Not in Contract
 - Push Button - see Electrical
 - Roof Drain - see Mechanical
 - Unit Ventilator - see Mechanical



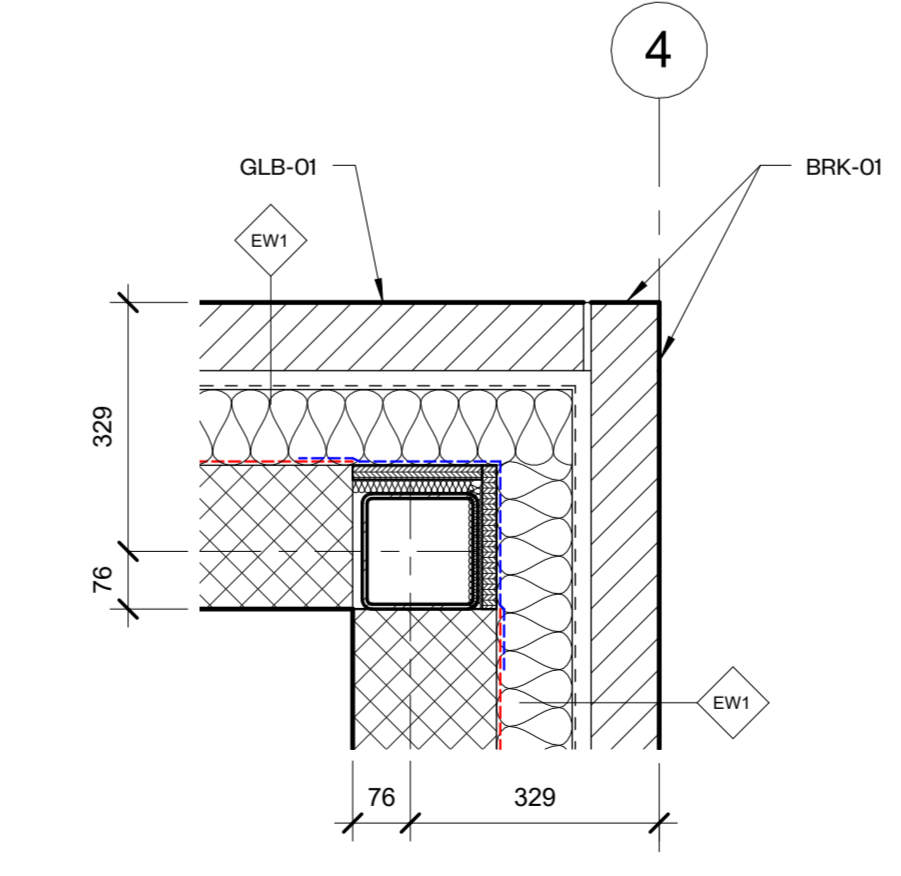
4 Plan Detail - NW Corner - BRK to GLB
1 : 10



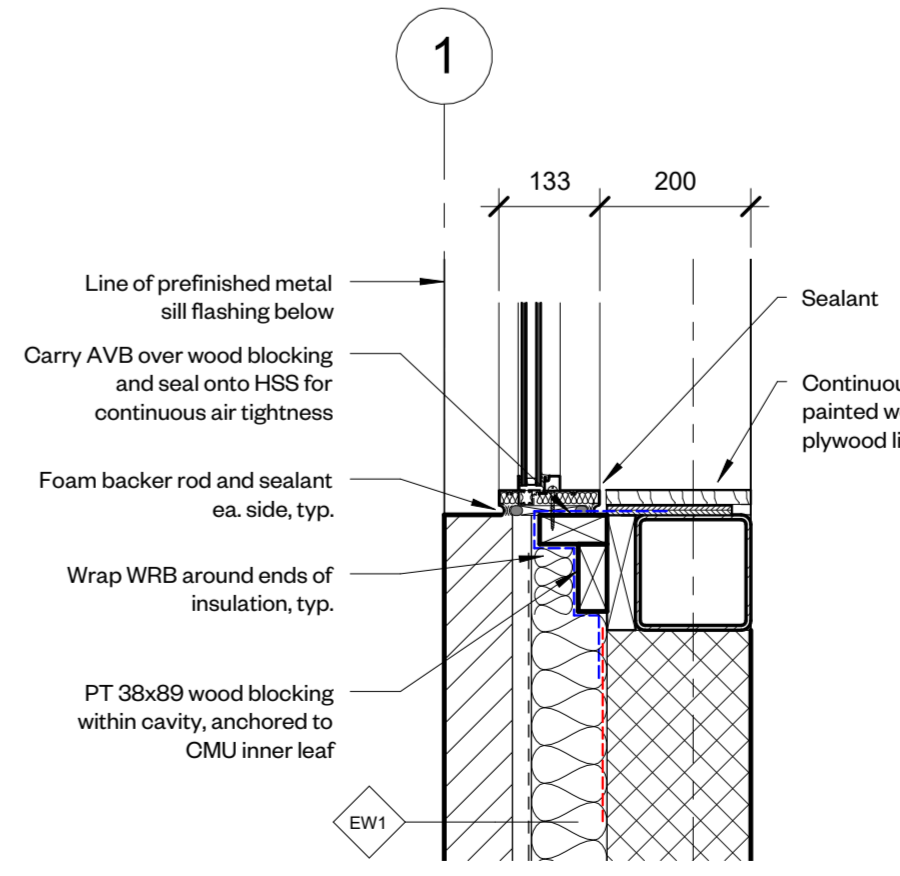
8 Plan Detail - SW Corner - BRK to GLB
1 : 10



9 Plan Detail - S Entrance - BRK to GLB
1 : 10



10 Plan Detail - NE Entrance - BRK to GLB
1 : 10



5 Plan Detail - Window Jamb at Column
1 : 10

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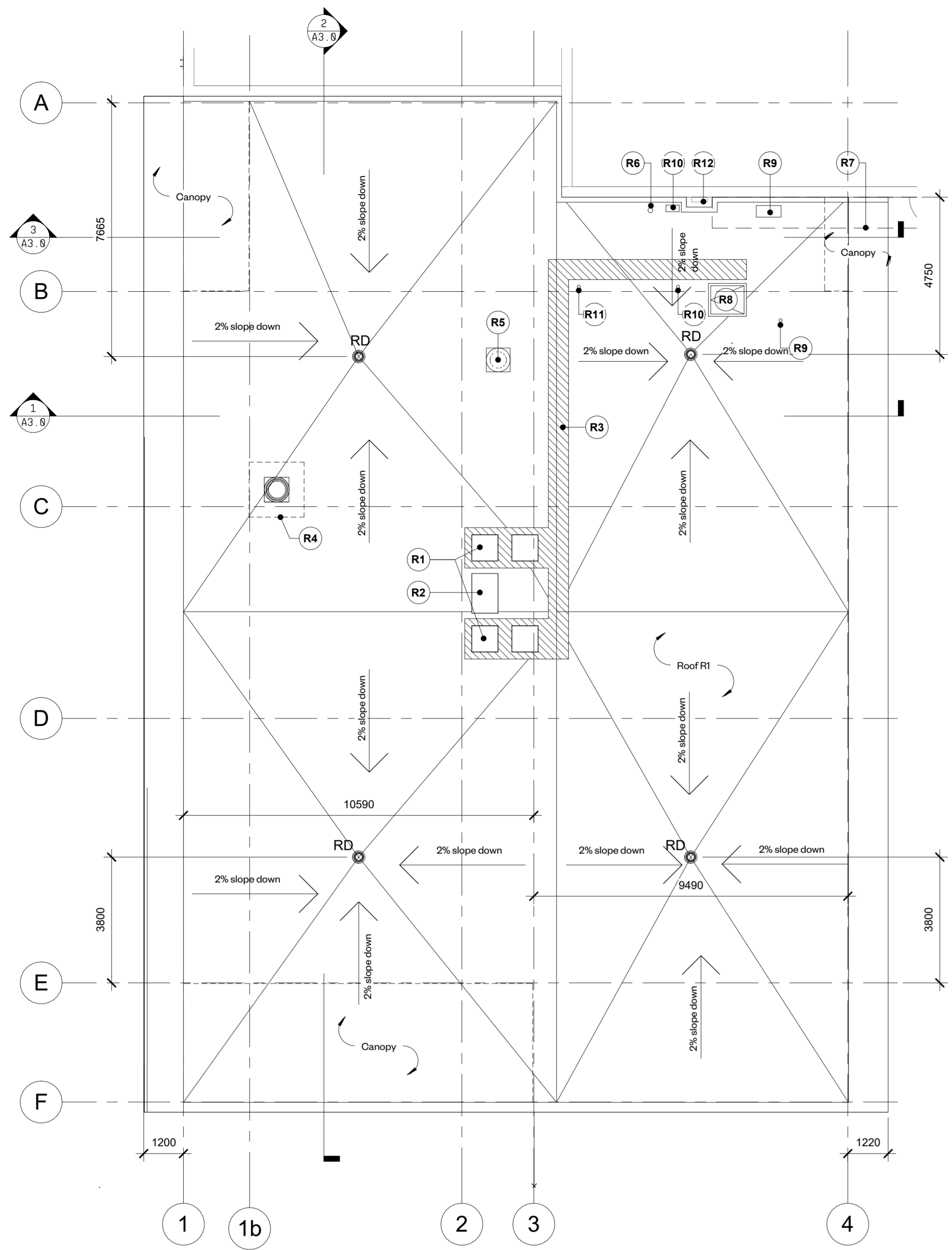
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Proposed Plans

Project North

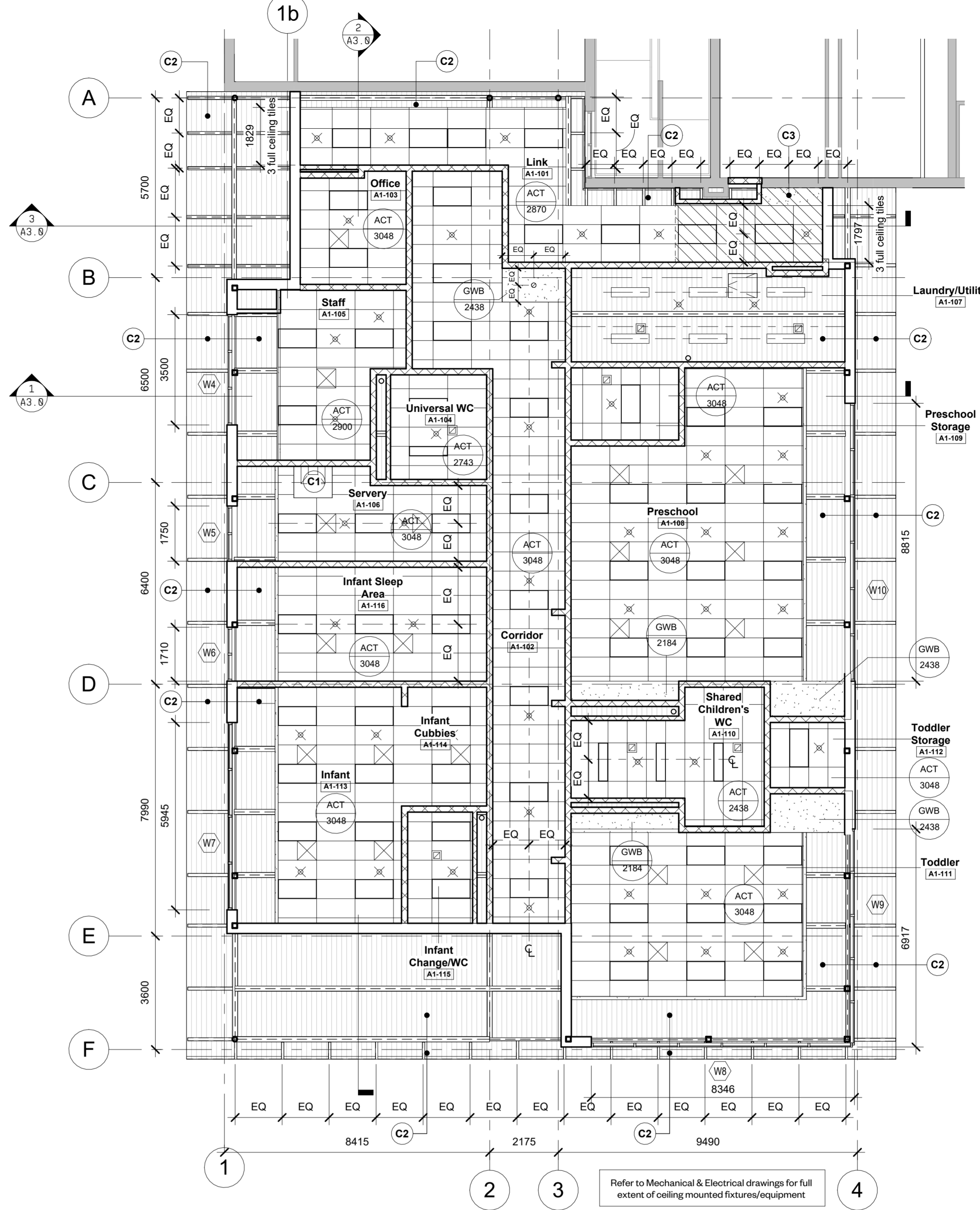
drawing number

A2.1



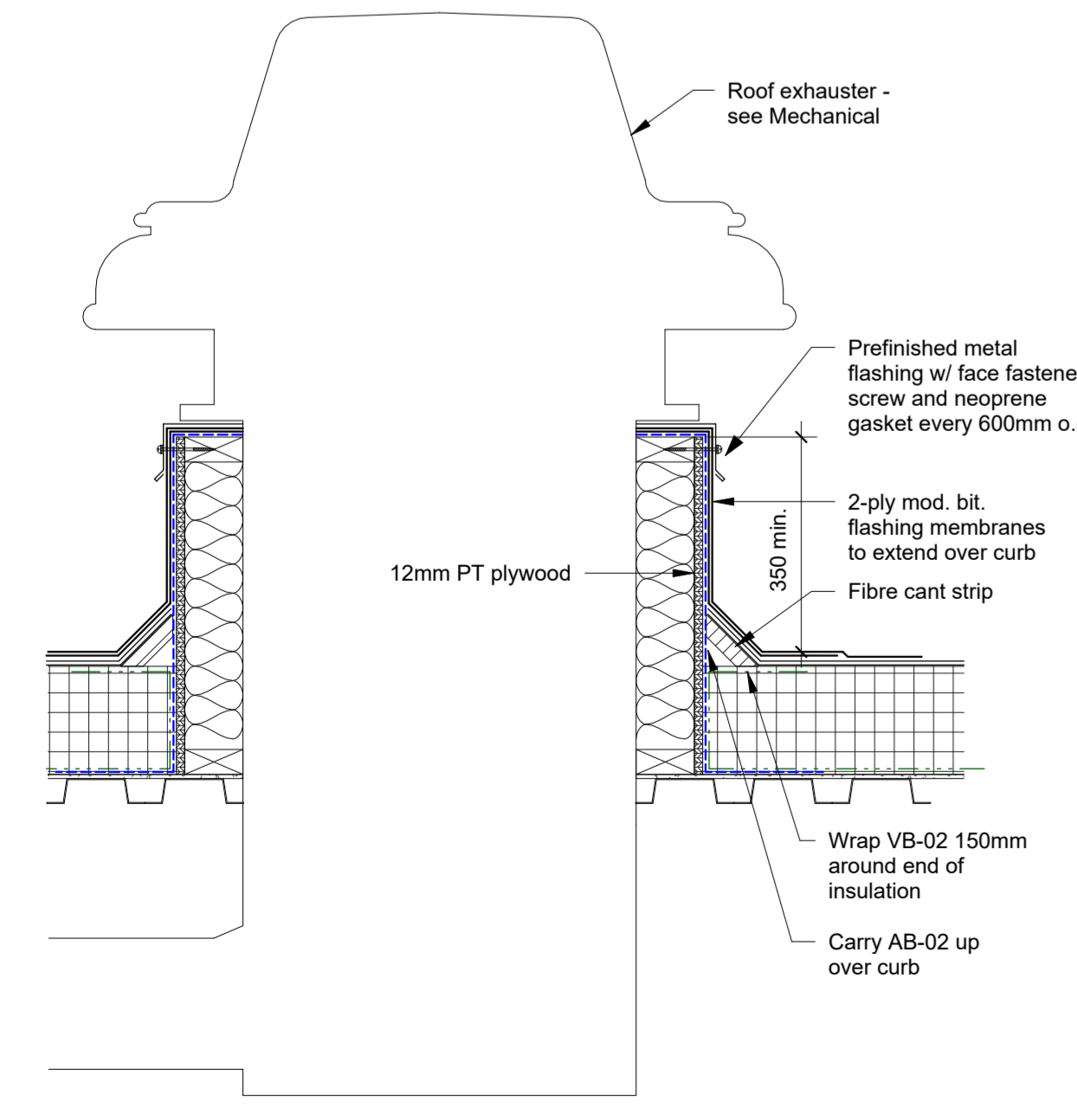
Roof Notes	
Note	Description
R1	Condensing units (4) - see Mechanical
R2	Roof top piping doghouse - see also Mechanical and Electrical
R3	600 x 600 x 50mm rigid insulation - Refer also to Mechanical detail 23 23 00.02
R4	Non-combustible insulation to 467mm around the kitchen exhaust penetration
R5	WC exhaust fan and roof curb
R6	Termination of gas vent piping - see Mechanical
R7	Line of existing, demolished canopy
R8	Roof access hatch
R9	Intake duct c/w gooseneck - see Mechanical. Locate required distance from exhausts.
R10	Exhaust duct c/w gooseneck - see Mechanical
R11	Dryer exhaust duct c/w gooseneck - see Mechanical
R12	Existing chimney to remain

Ceiling Notes	
Note	Description
C1	Fire suppression / exhaust hood - see Mechanical
C2	Exposed u/s roof deck
C3	Diagonal crosshatch indicates extent of fire-rated bulkhead. Refer to Assembly schedule and 8/A3.0.

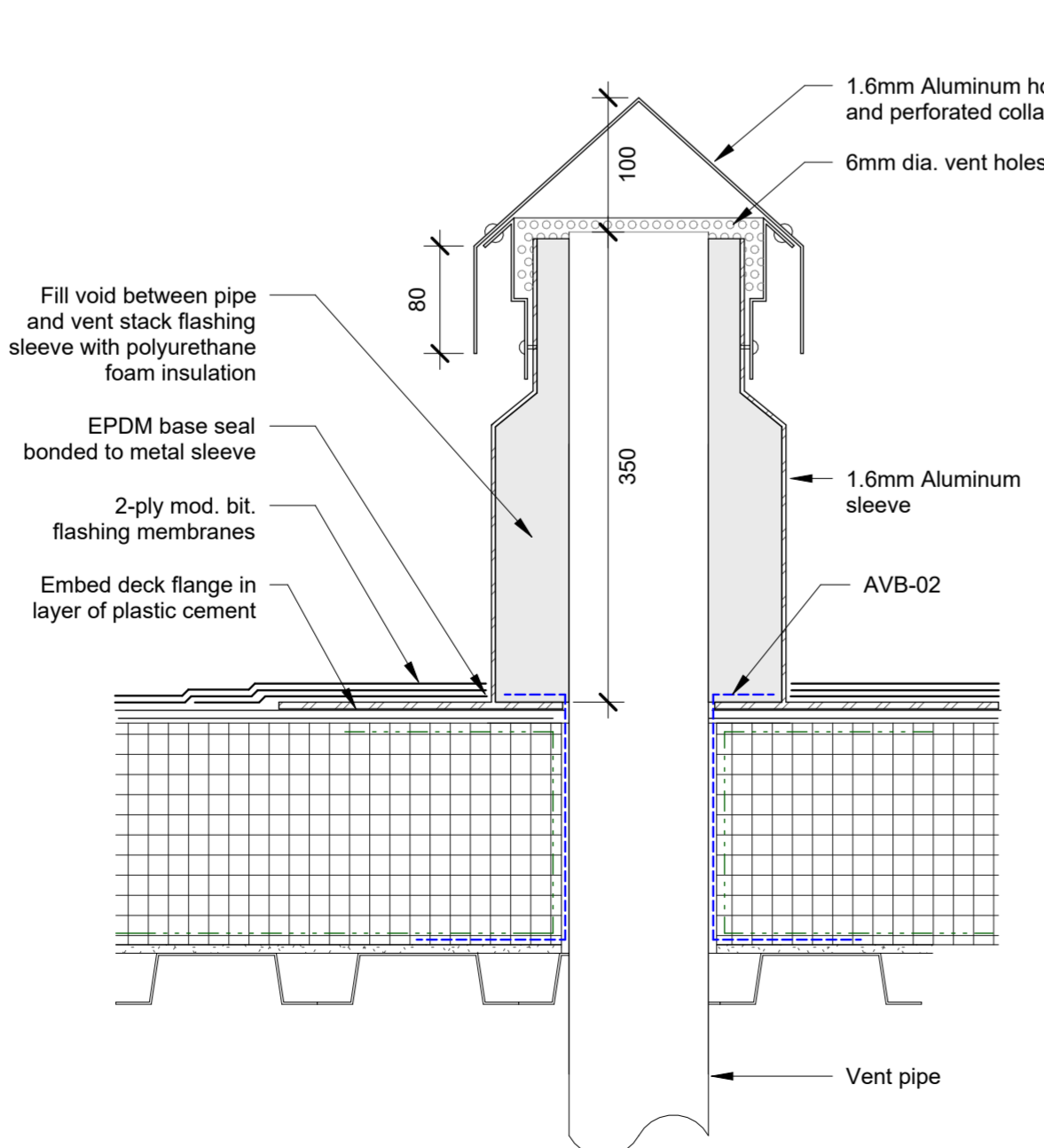


2 Proposed Roof Plan
1 : 100

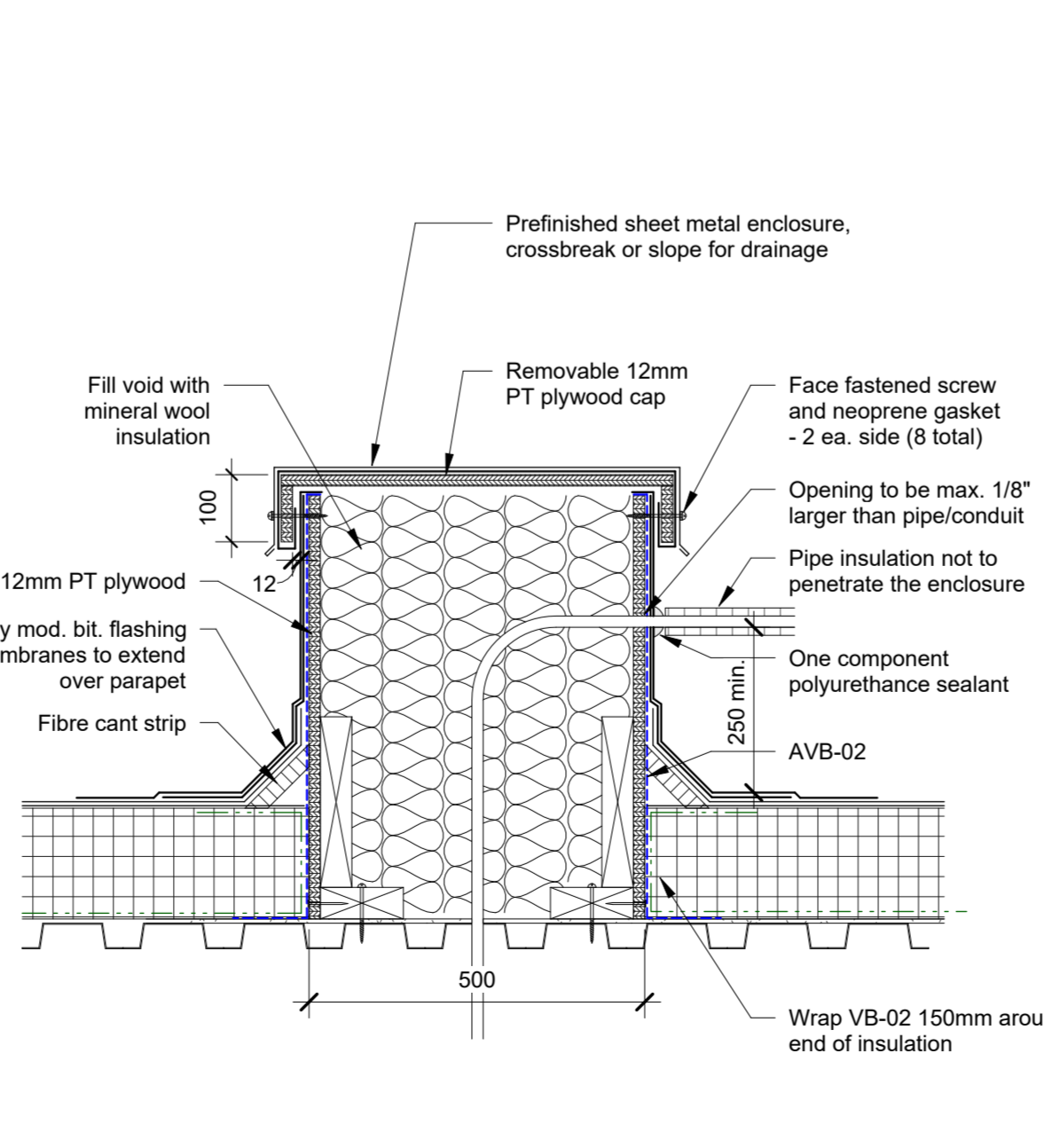
1 Proposed RCP
1 : 100



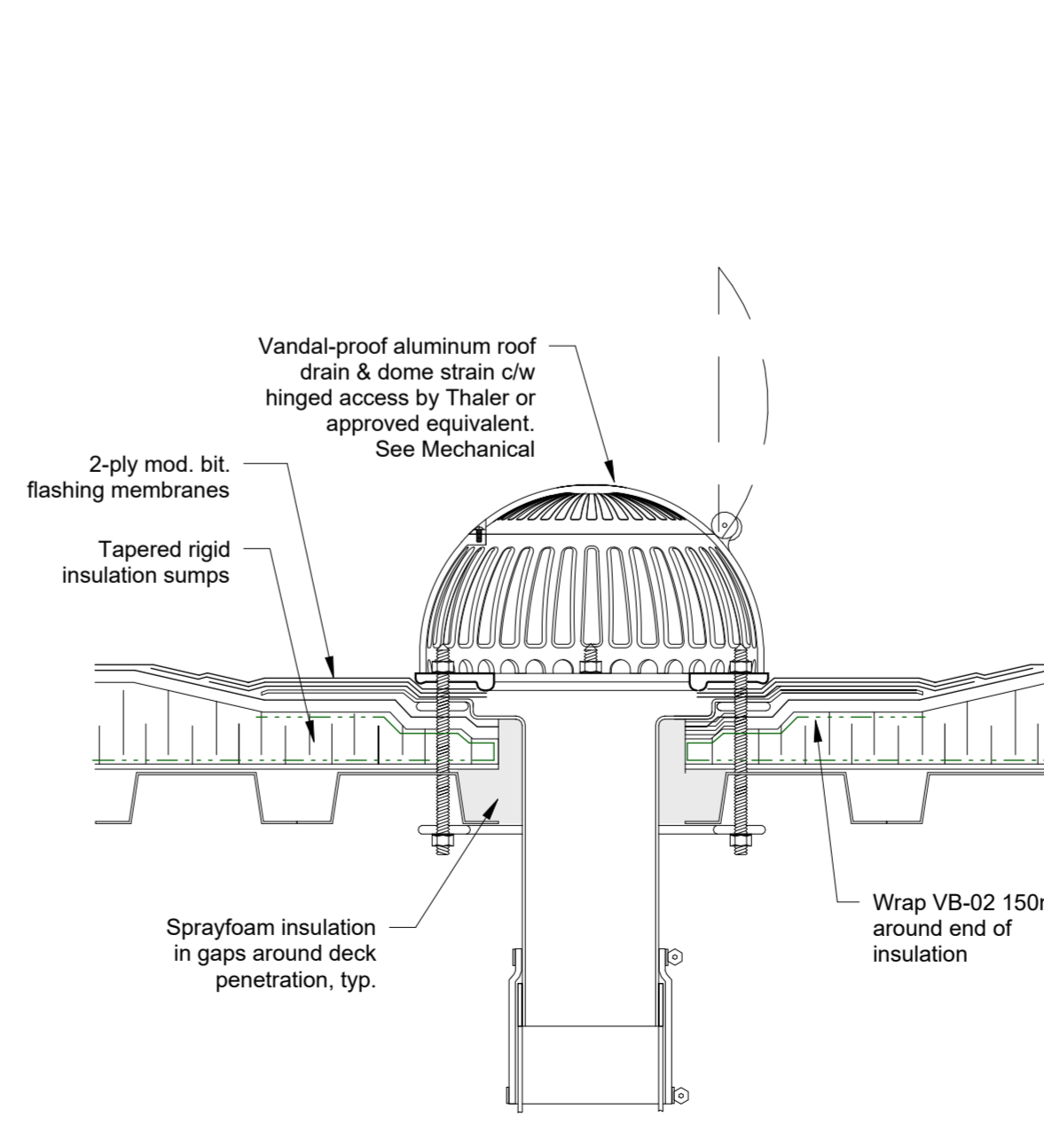
3 Roof Exhaust, typ
1 : 10



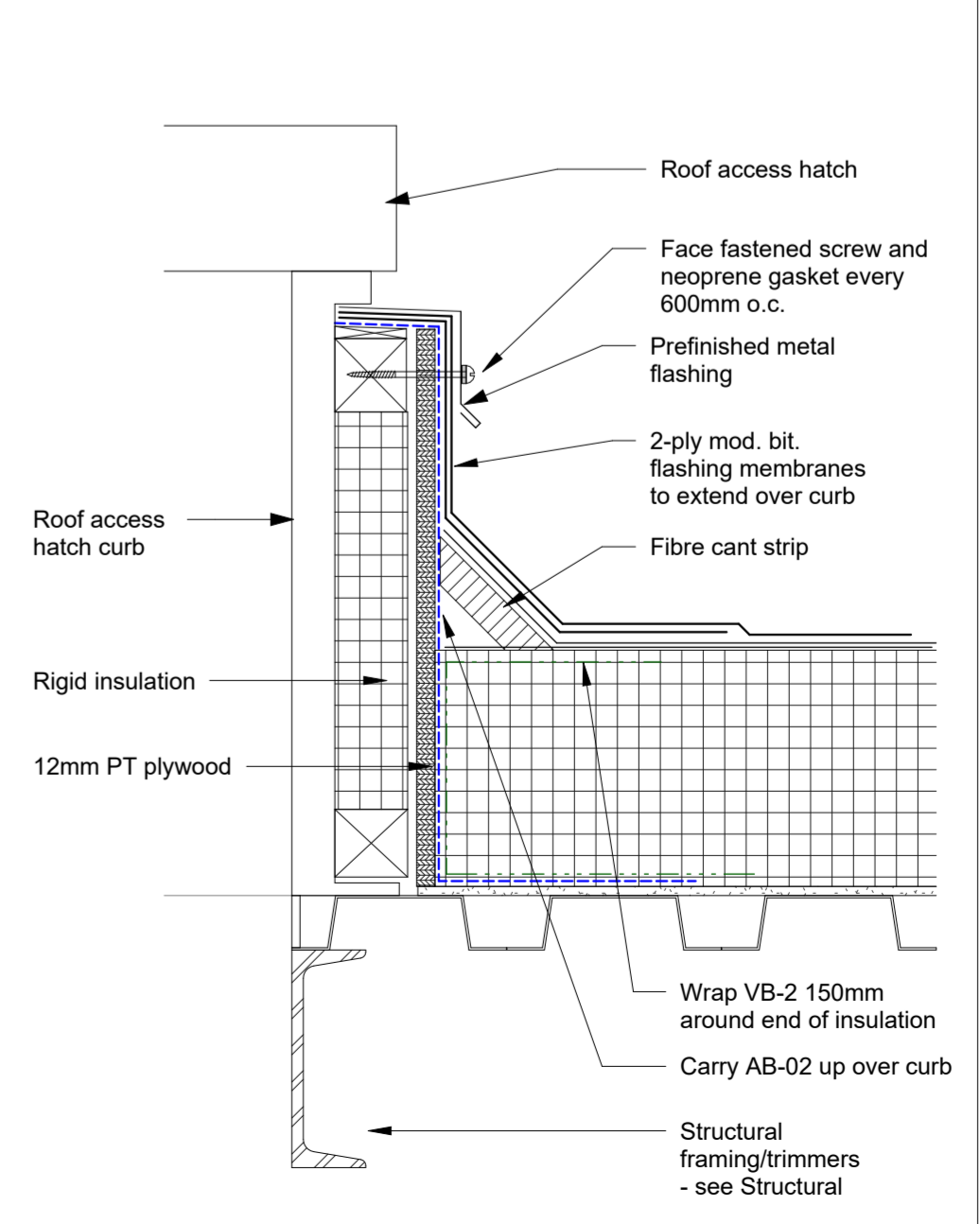
5 Vent through roof, typ
1 : 5



6 Pipe/Conduit through Roof, typ
1 : 10



7 Roof Drain, typ
1 : 5



4 Roof Access Hatch
1 : 5

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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
 - DXXX New Door tag - refer to schedule
 - MW1 Millwork Tag
 - GWB Ceiling Material Height above Finished Floor 1' - 0"
 - (E) Existing
 - N.I.C. Not in Contract
 - PB Push Button - see Electrical
 - RD Roof Drain - see Mechanical
 - UV Unit Ventilator - see Mechanical

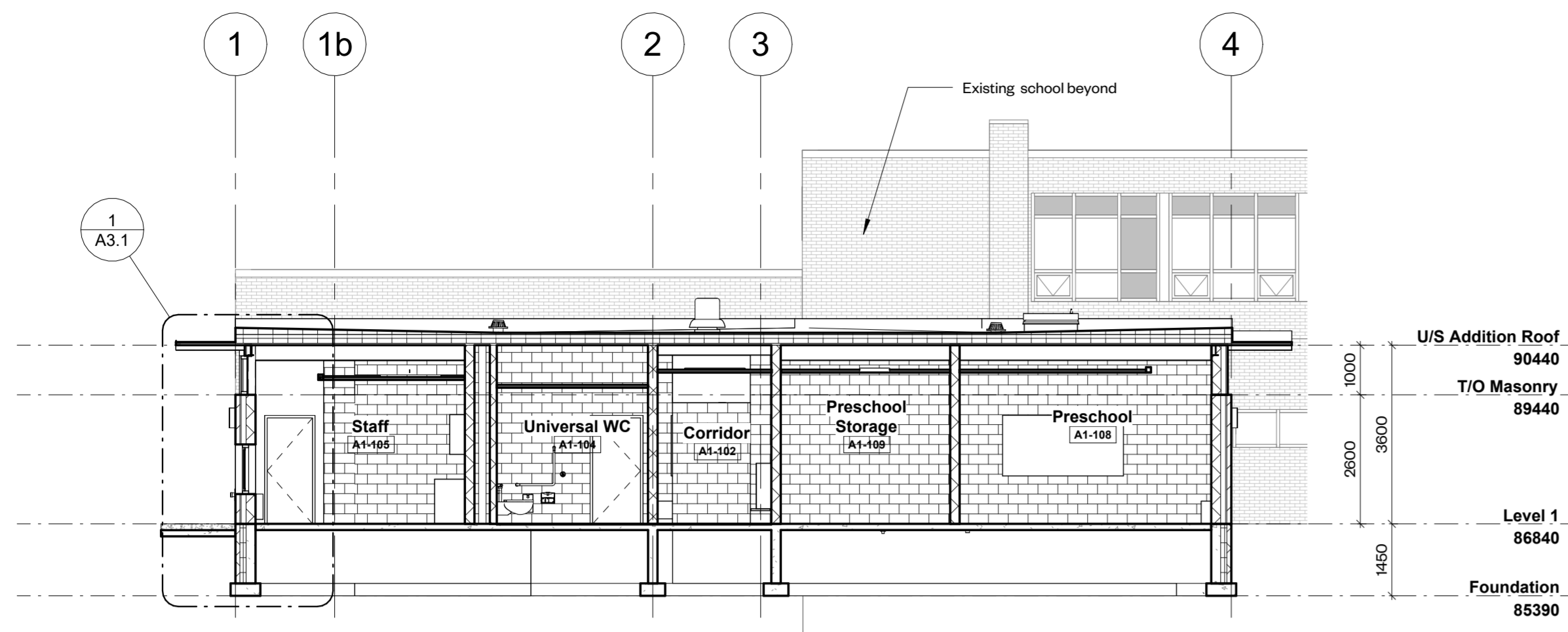
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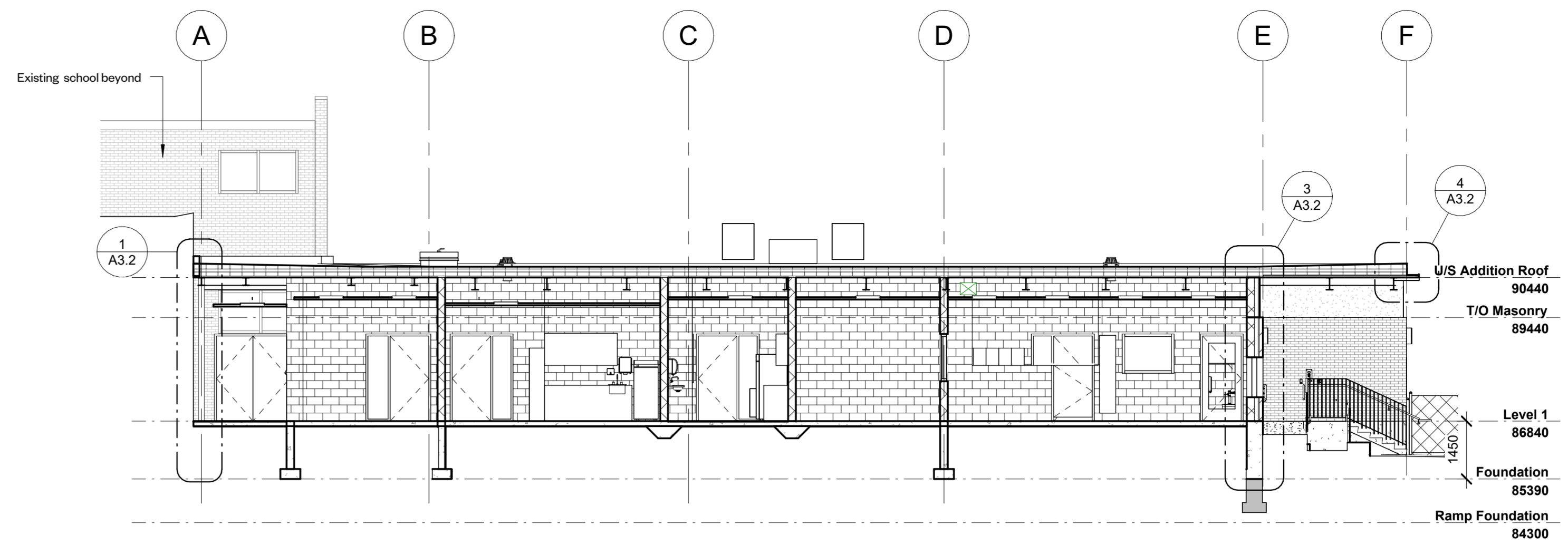
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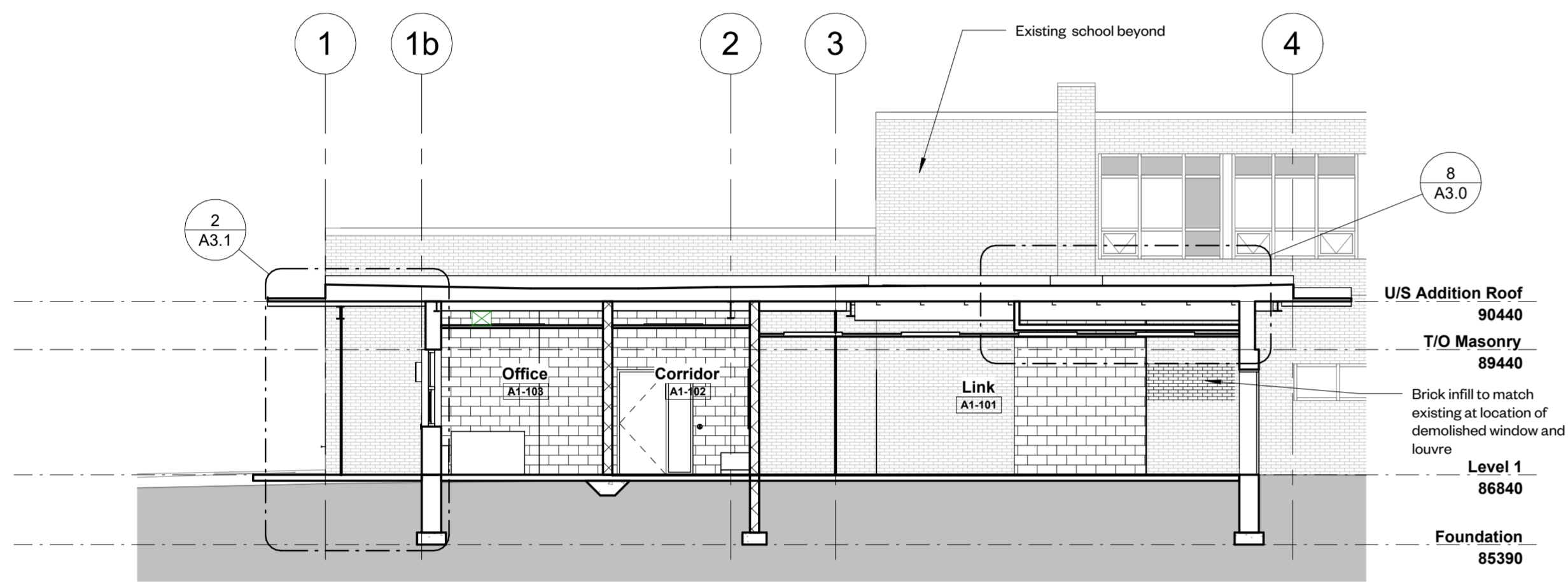
RCP, Roof Plan, Roof Details



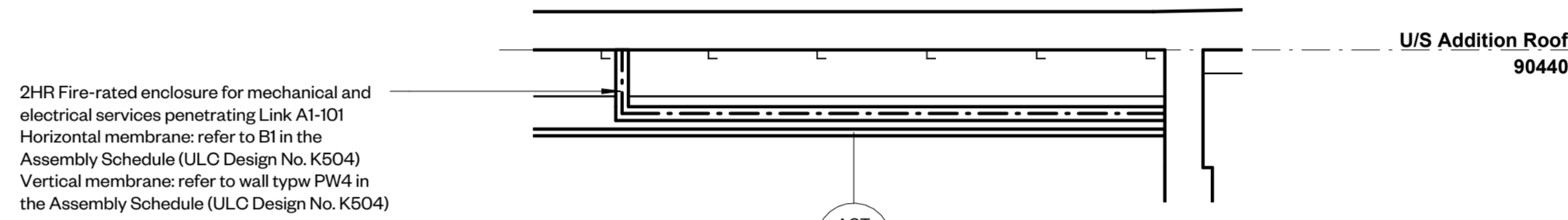
① Building Section - East/West
1 : 100



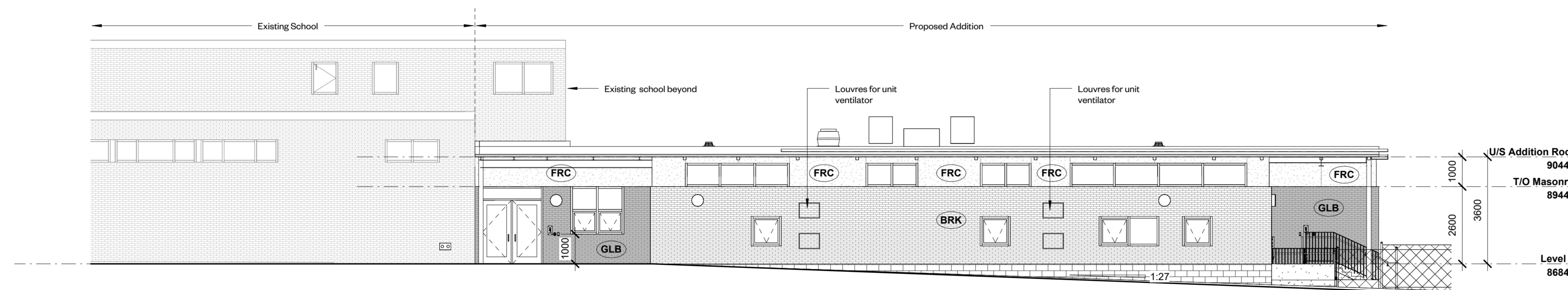
② Building Section - North/South
1 : 100



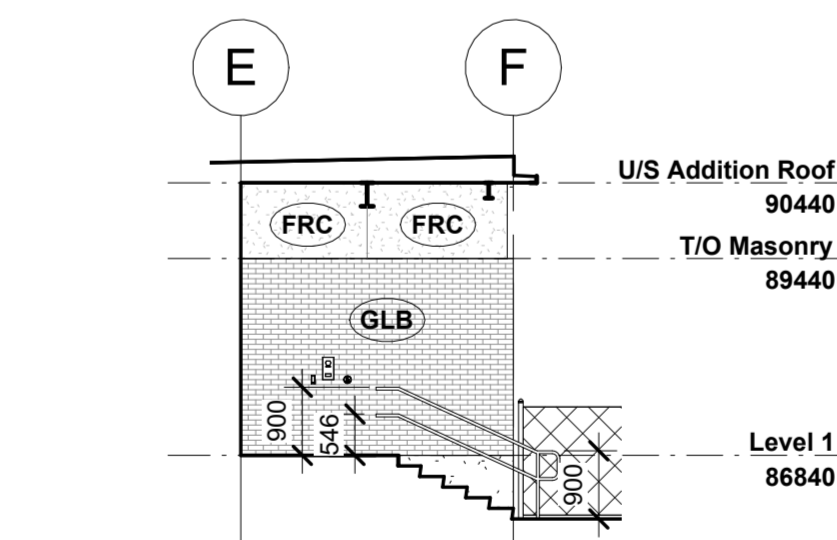
③ Building Section - East/West @ Link
1 : 100



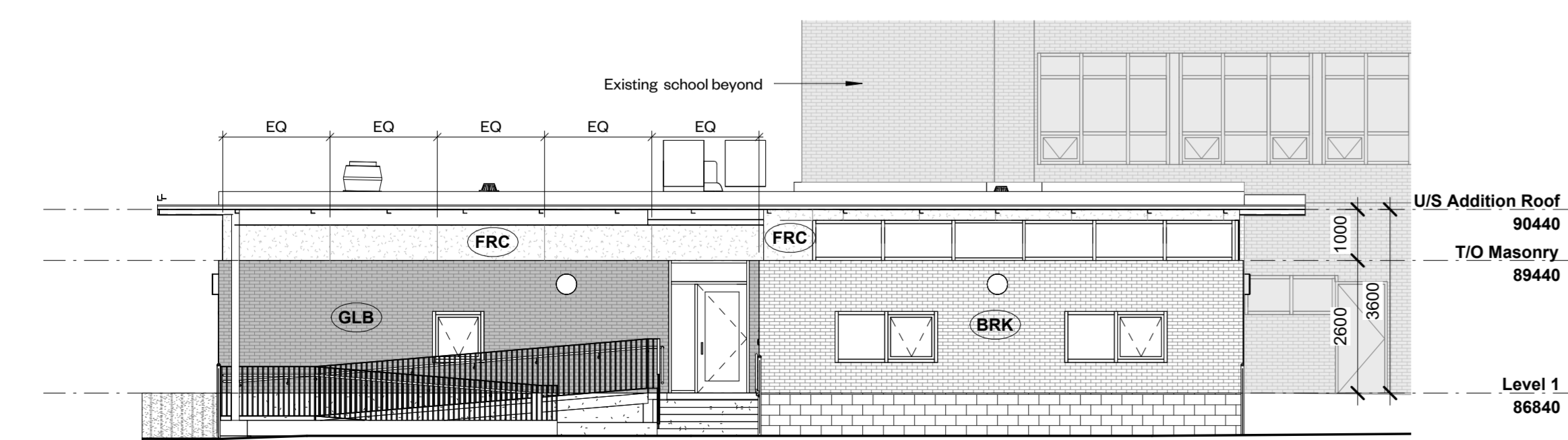
⑧ Section - Fire-Rated Bulkhead
1 : 50



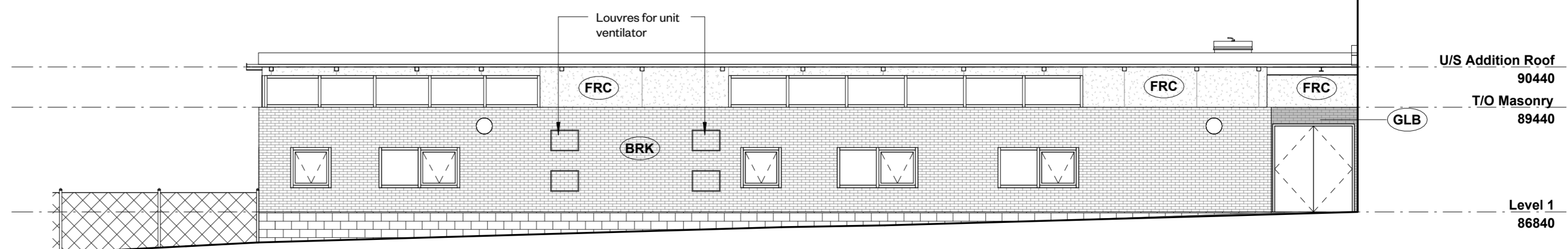
④ Exterior Elevation - West
1 : 100



⑦ Exterior Stair - Elevation
1 : 100



⑤ Exterior Elevation - South
1 : 100



⑥ Exterior Elevation - East
1 : 100

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16	Issued for Tender	2025-01-14

Materials Legend

ACT	Acoustic Ceiling Tile
BB	Bulletin Board
BRK	Brick
CER	Ceramic Tile
EXIST	Existing
EXP	Exposed
FGL	Frosted Glass
FRC	Fibre-reinforced Cement
FI	Glazing Surface Film
GLB	Ceramic Glazed Clay Masonry
GLWB	Gypsum Wallboard
PLY	Fire Rated Plywood
PCR	Porcelain Tile
PLAM	Plastic Laminate
PT	Paint Finish
RB	Rubber Base
RES	Resilient Sheet Flooring
SS	Stainless Steel
TGL	Tempered Glass
WD	Solid Wood
WB	Whiteboard
WV	Wood Veneer

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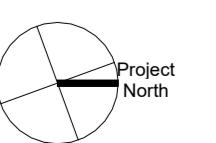
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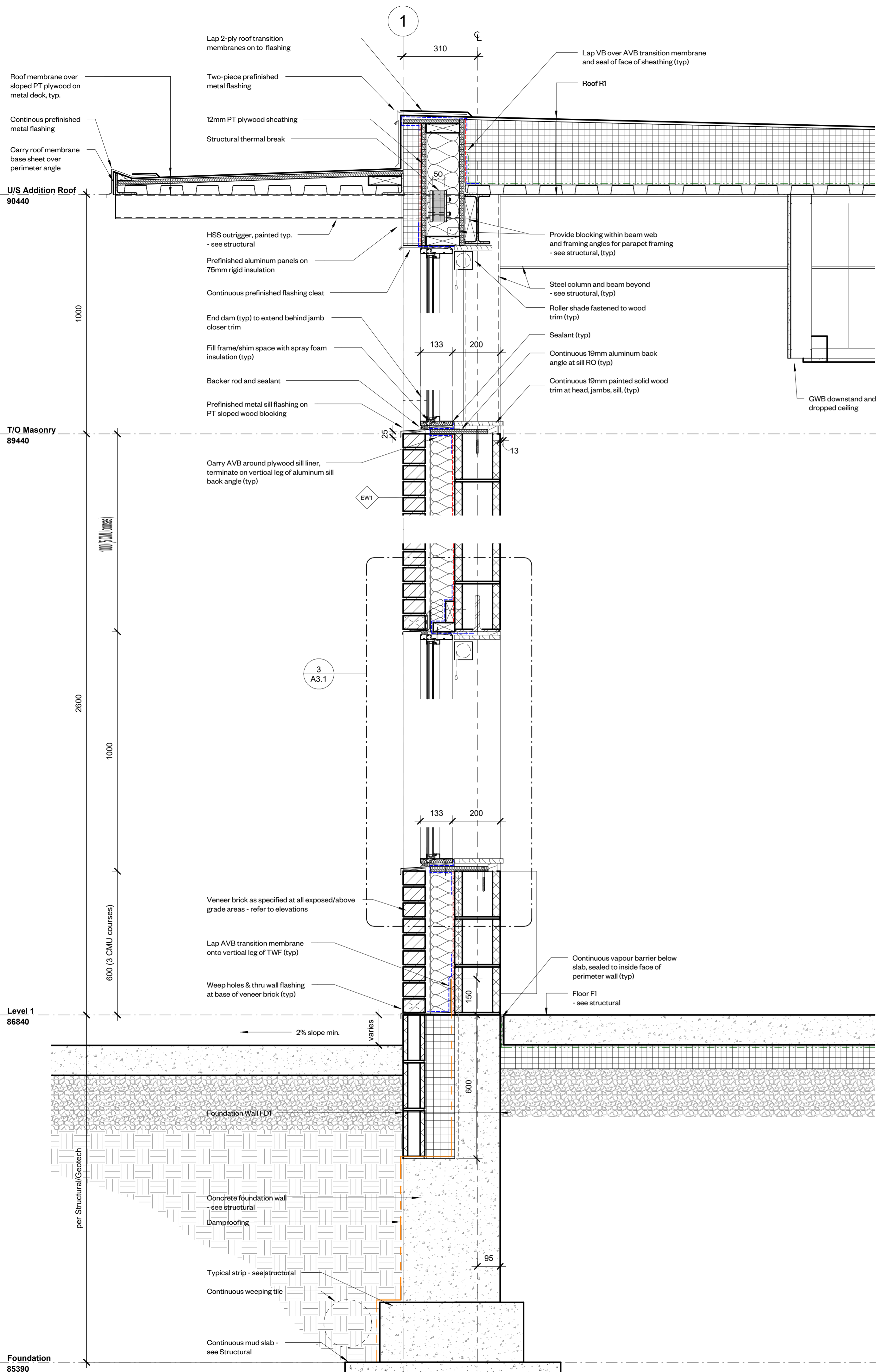
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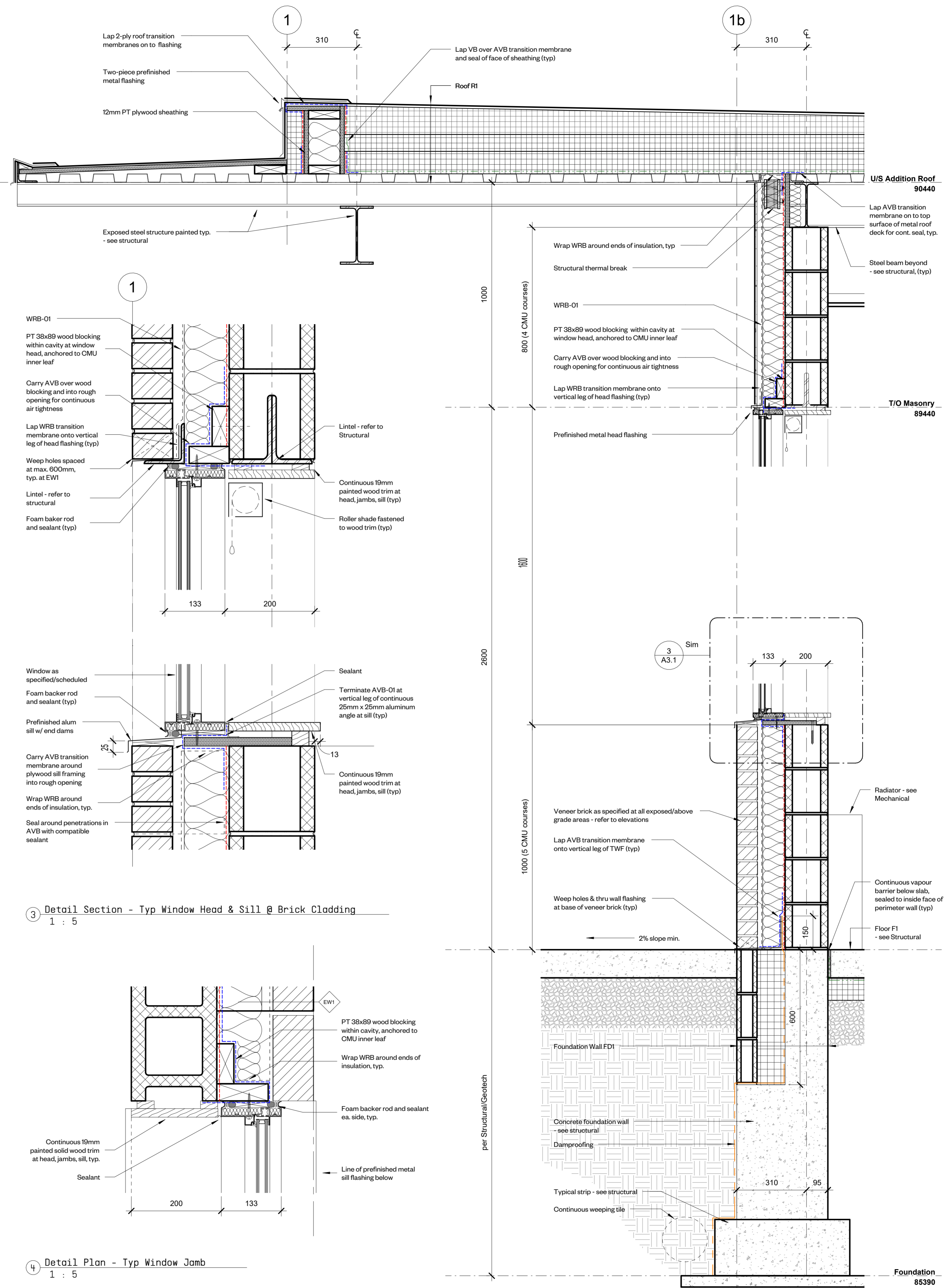
Building Sections & Exterior Elevations



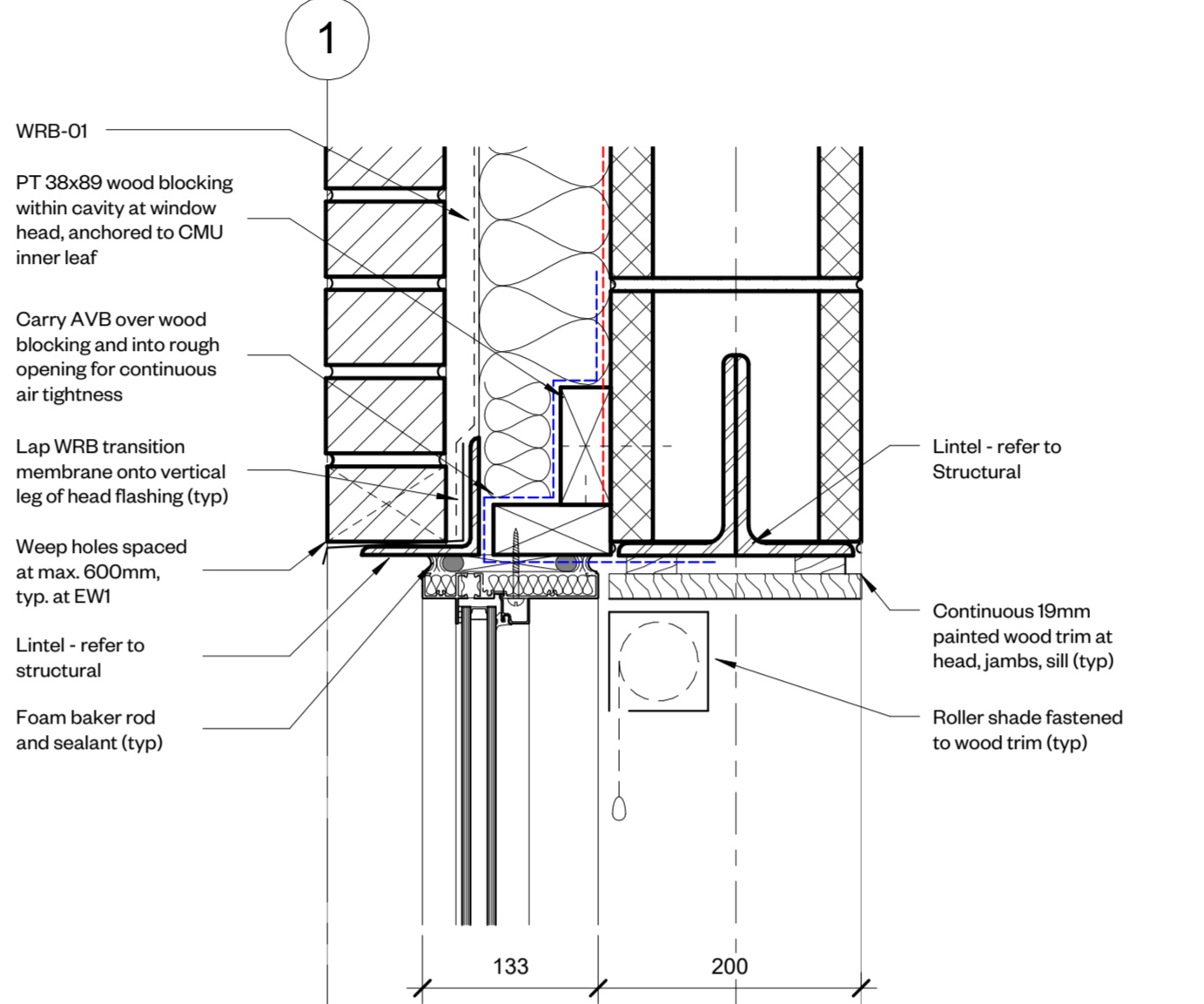
Project Number
A3.0



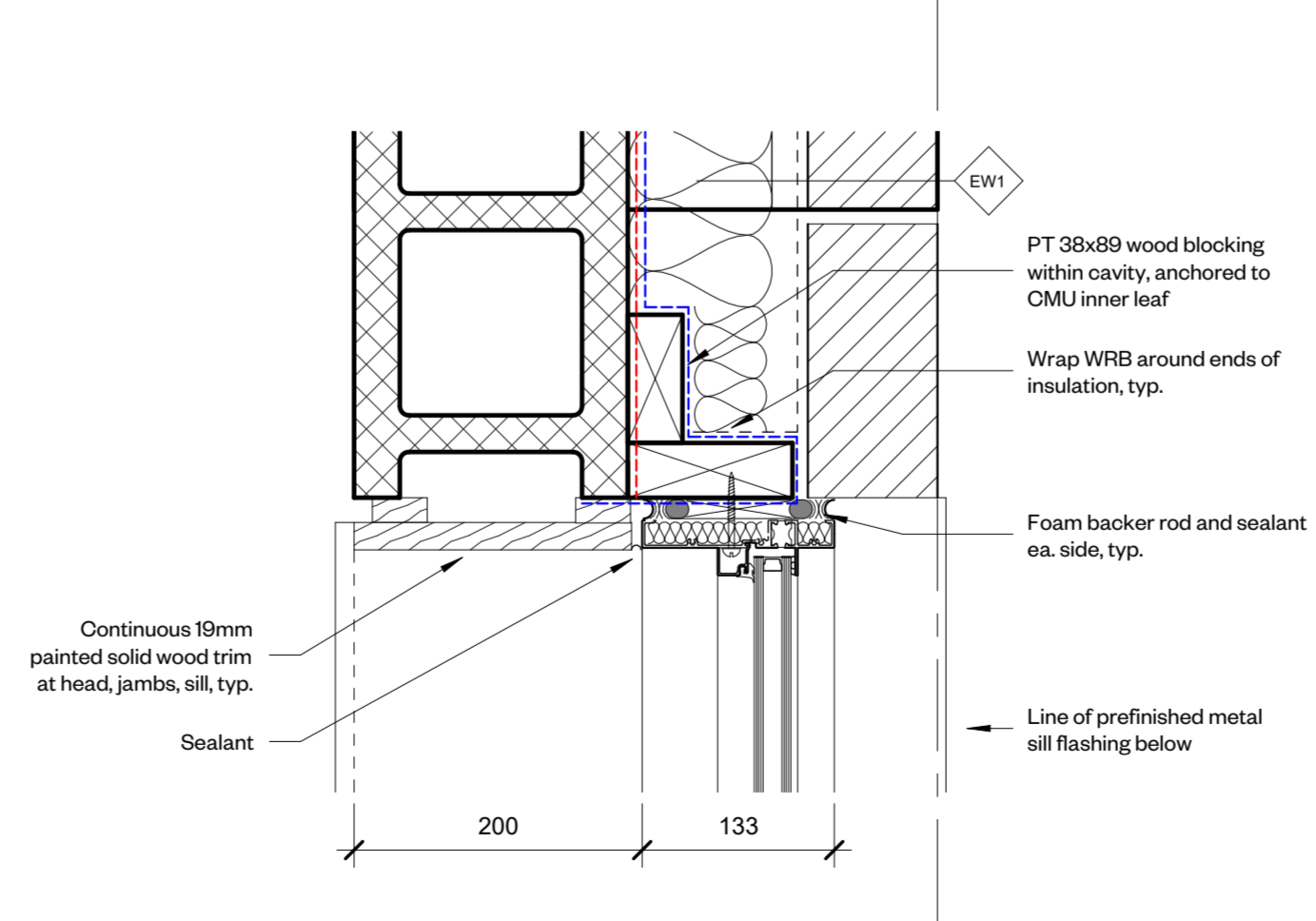
1 Wall Section - Exterior Wall
1 : 10



2 Wall Section - Exterior Wall at Recessed Entrance
1 : 10



3 Detail Section - Typ Window Head & Sill @ Brick Cladding
1 : 5



4 Detail Plan - Typ Window Jamb
1 : 5

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16	Issued for Tender	2025-01-14

Membrane Legend	
	AVB-01 - Vapour permeable air/weather barrier (at above-grade walls)
	AVB-02 - Transition membrane (at openings/transitions)
	VB-01 - Vapour barrier (at slab-on-grade)
	VB-02 - Vapour barrier (at roof)
	WRB-01 - Weather resistant barrier (at rainscreen cladding)
	WRB-02 - Weather resistant roofing underlayment
	RWP-01 - Fluid Applied Dampproofing (exterior below-grade walls)

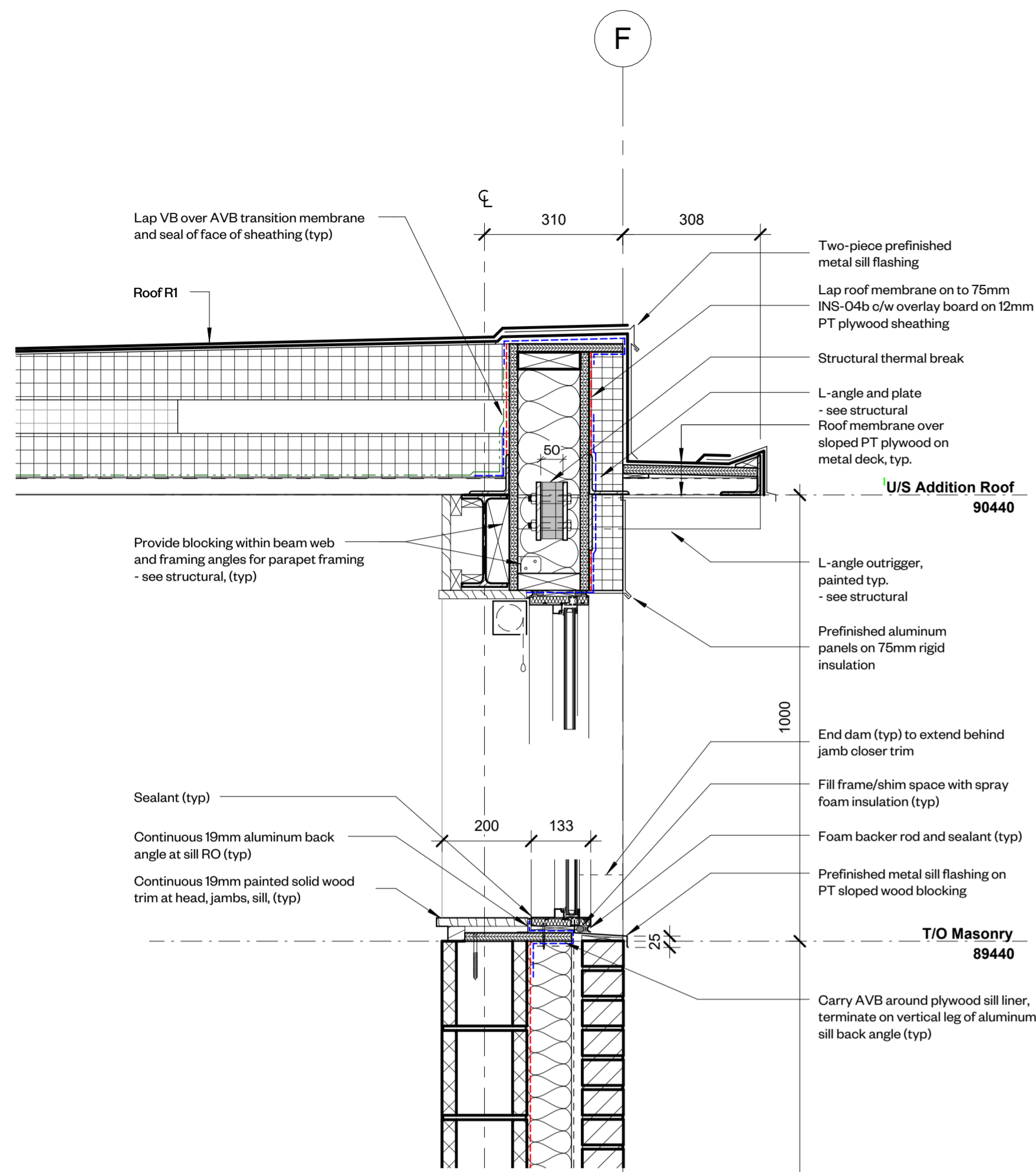
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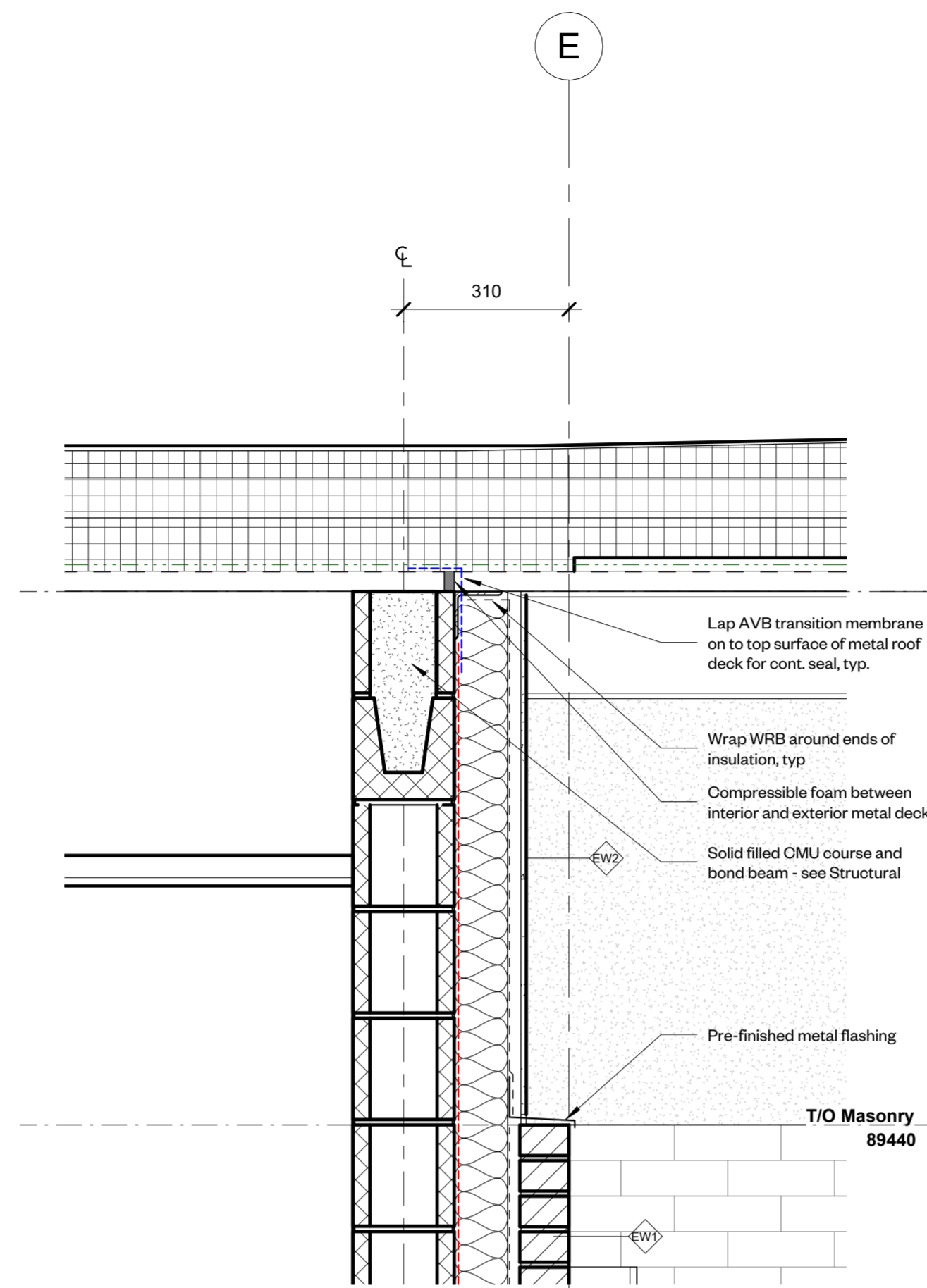
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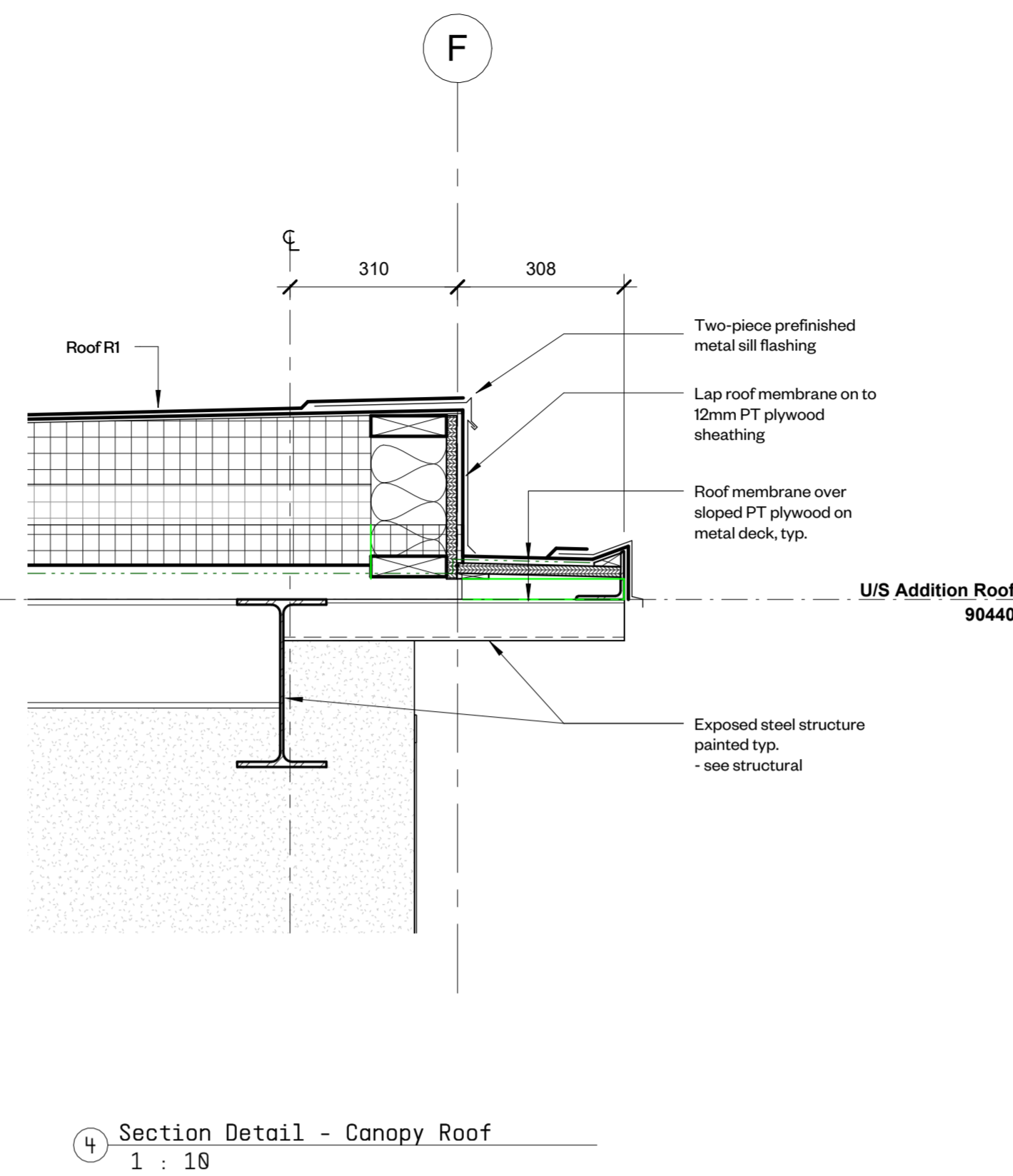
Wall Sections, Window Details



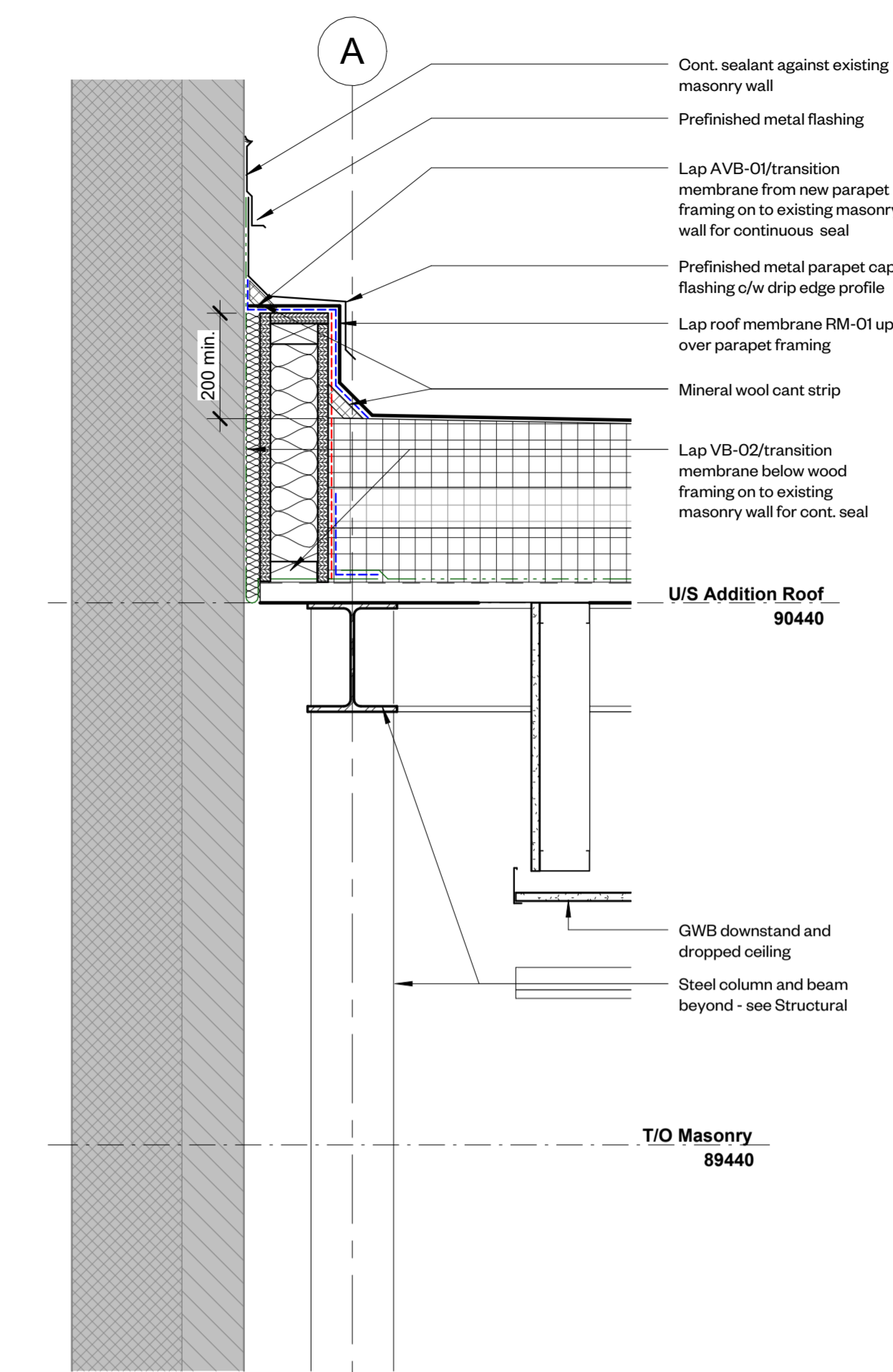
2 Wall Section - Exterior Wall, South
1 : 10



3 Wall Section @ EW2 Upper
1 : 10



4 Section Detail - Canopy Roof
1 : 10



1 Wall Section - North/South @ Junction w/Exist. Building
1 : 10

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Membrane Legend	
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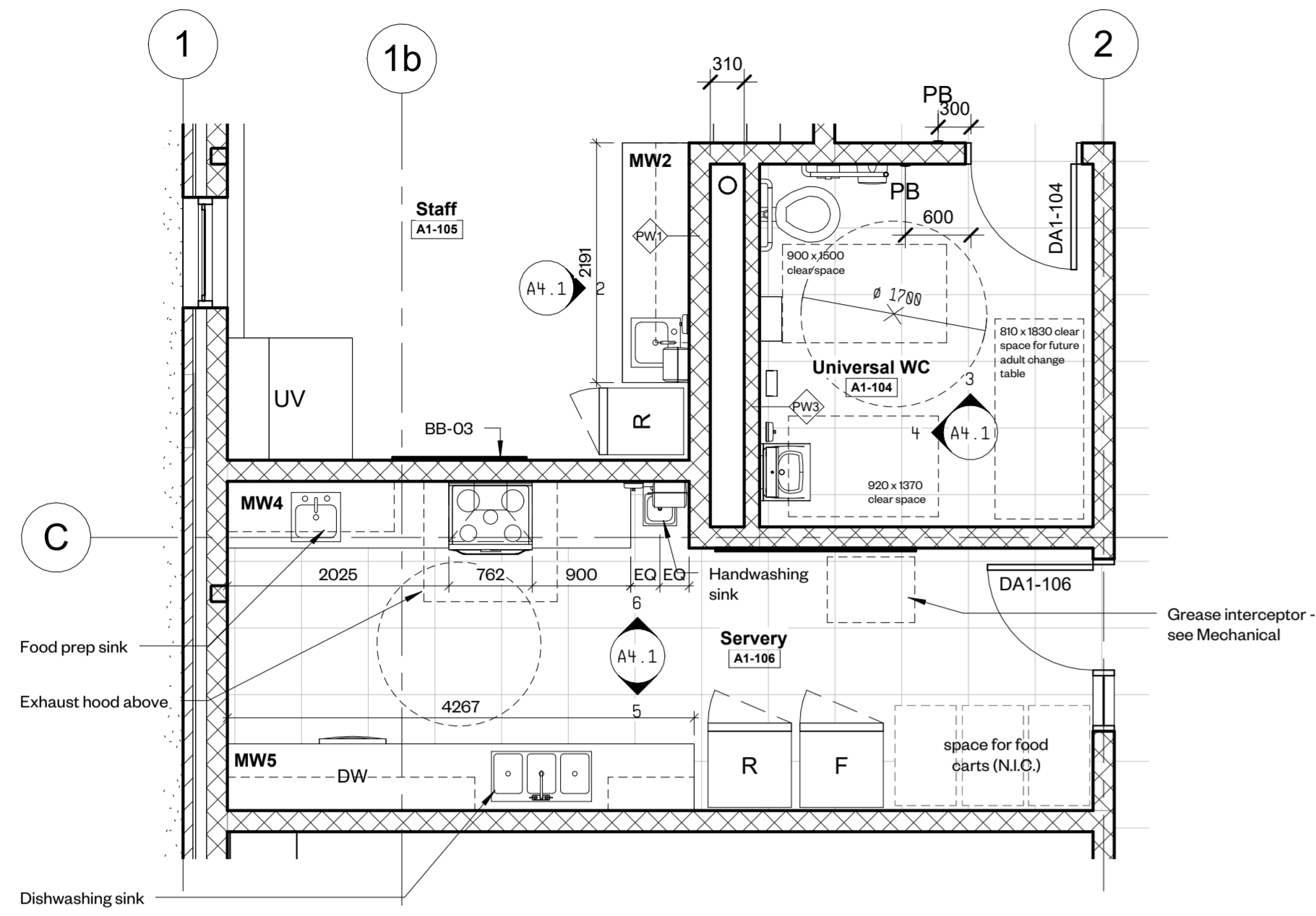
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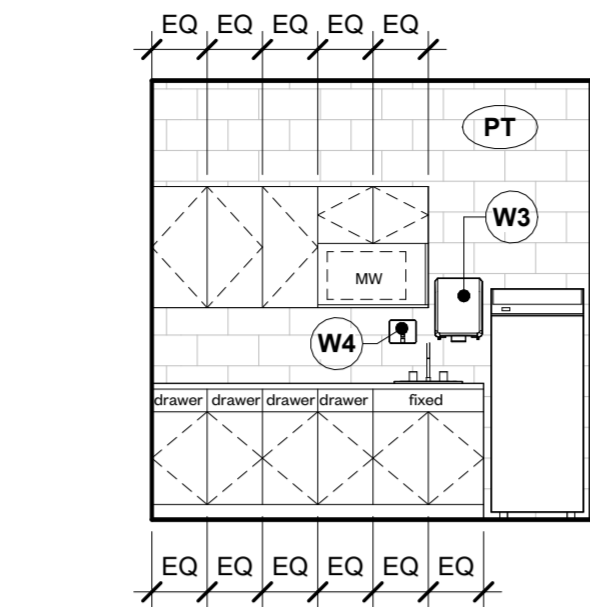
Wall Sections

drawing number

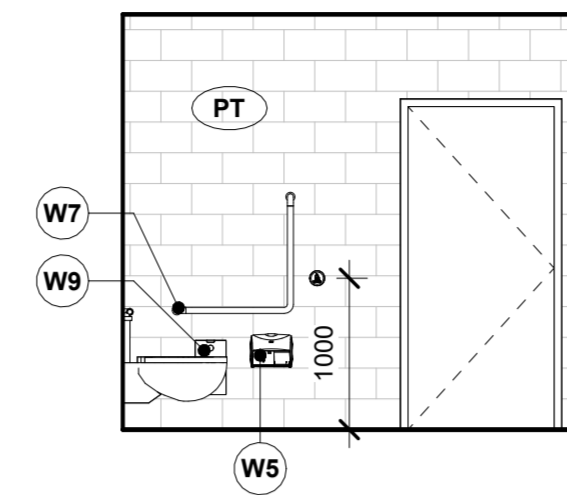
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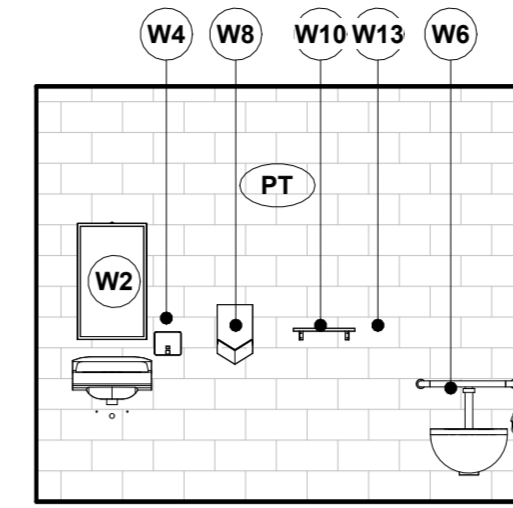
1 Detail Plan - Kitchen 106
1 : 50



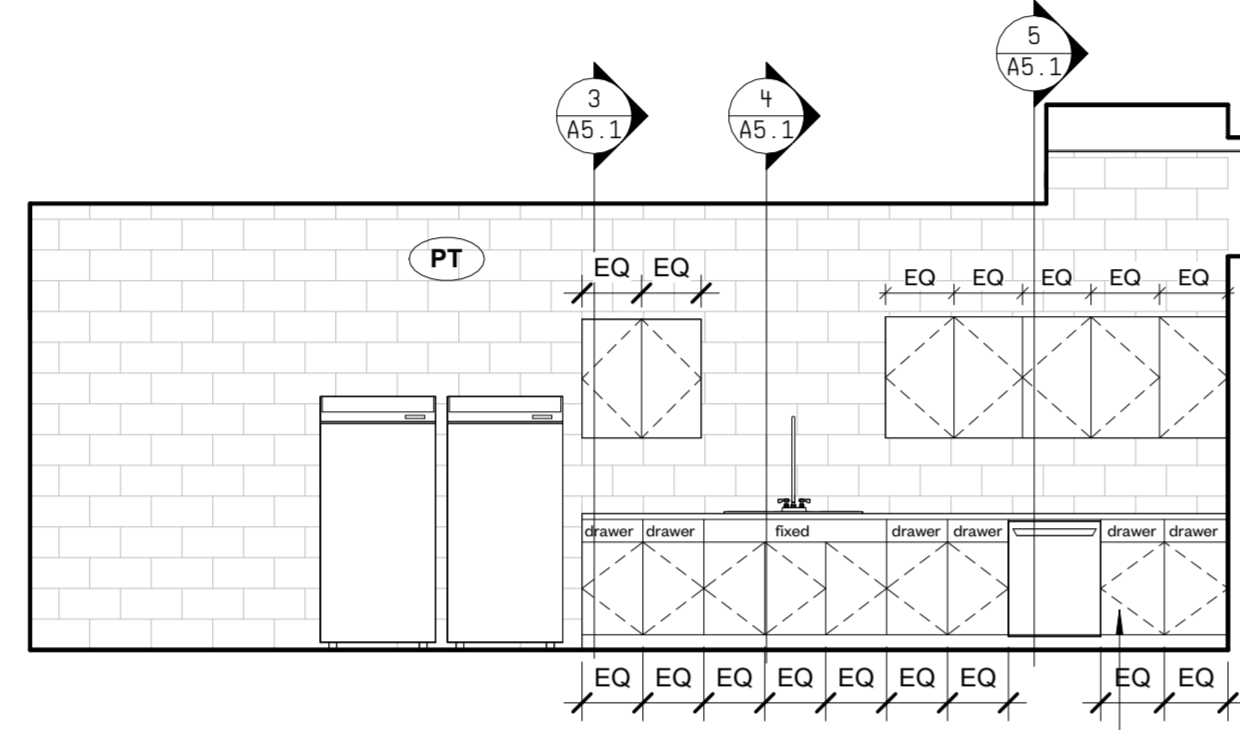
2 Elevation - Staff 105 East
1 : 50



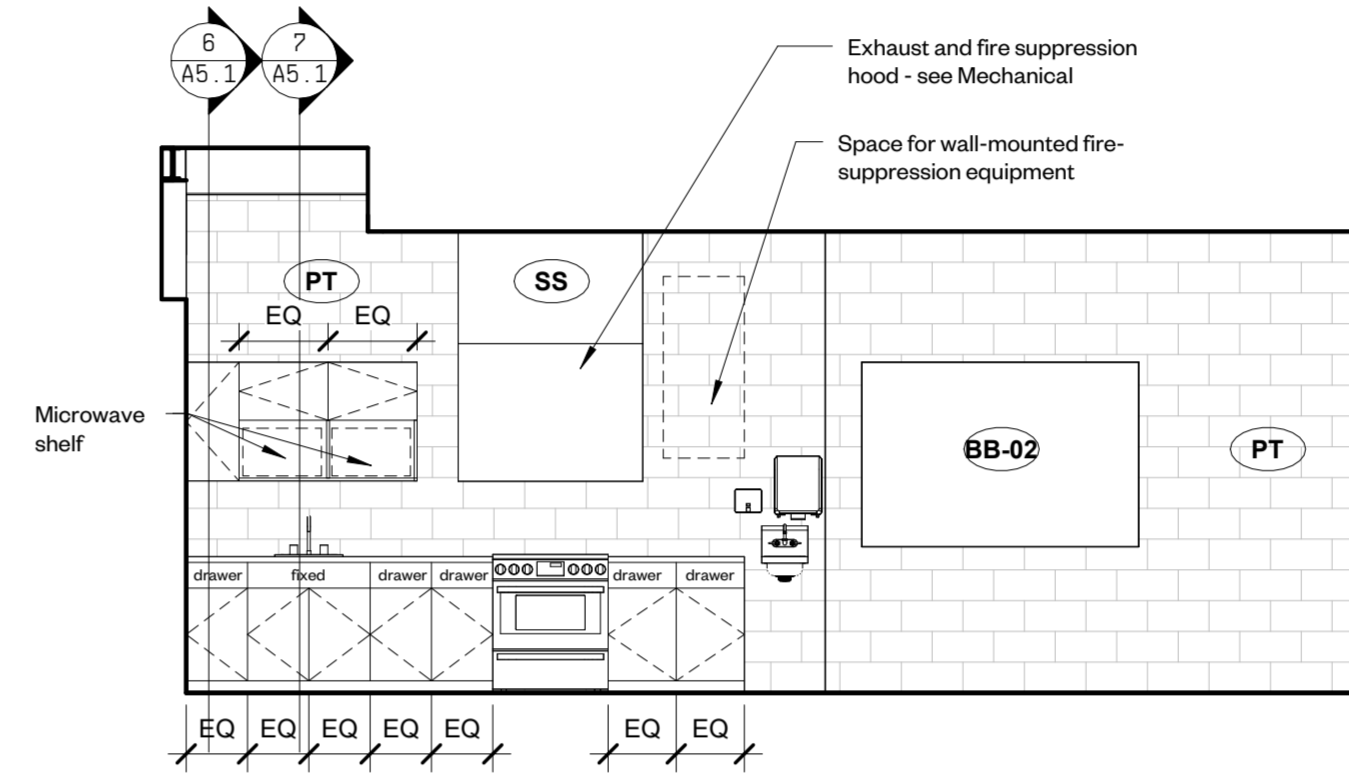
3 Elevation - WC 104 North
1 : 50



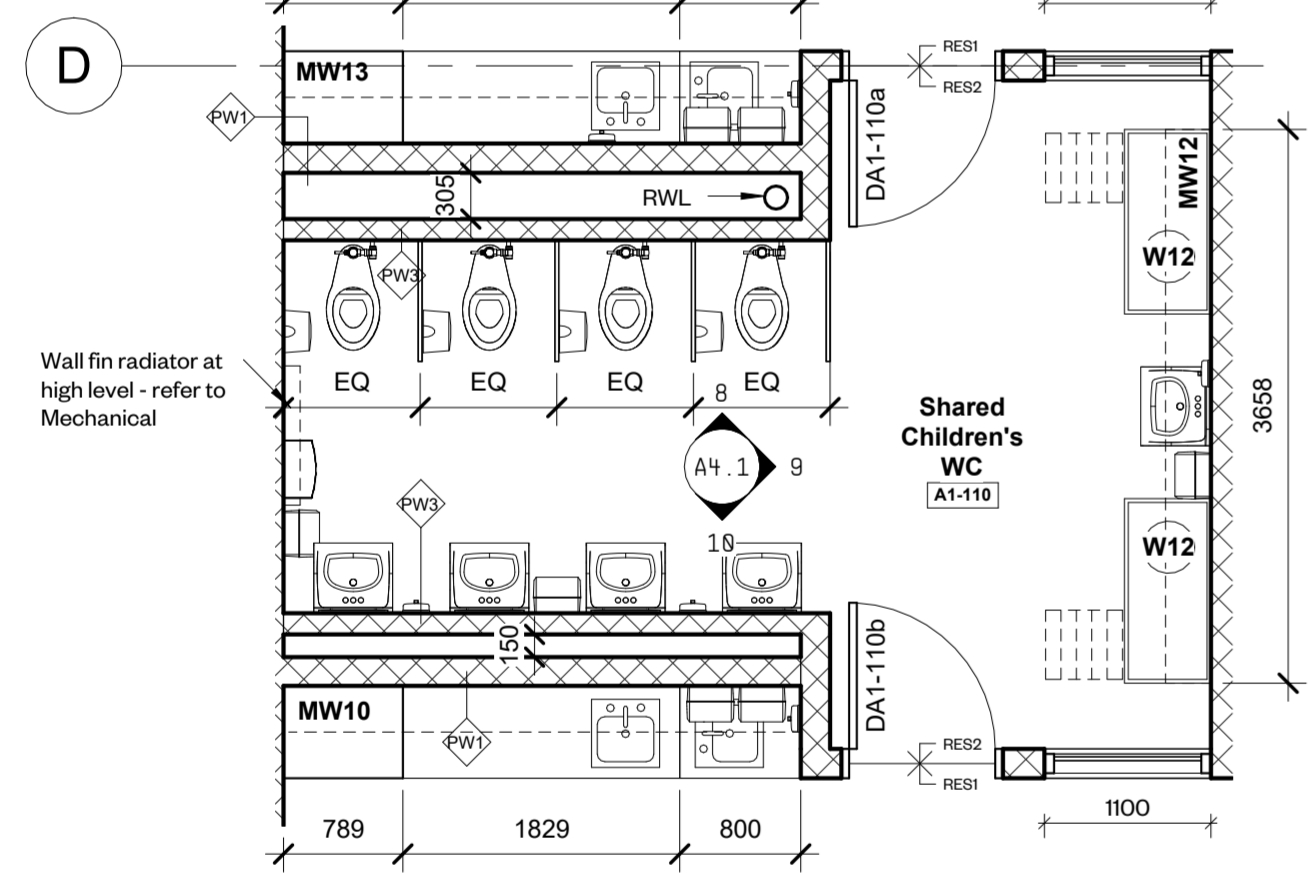
4 Elevation - WC 104 West
1 : 50



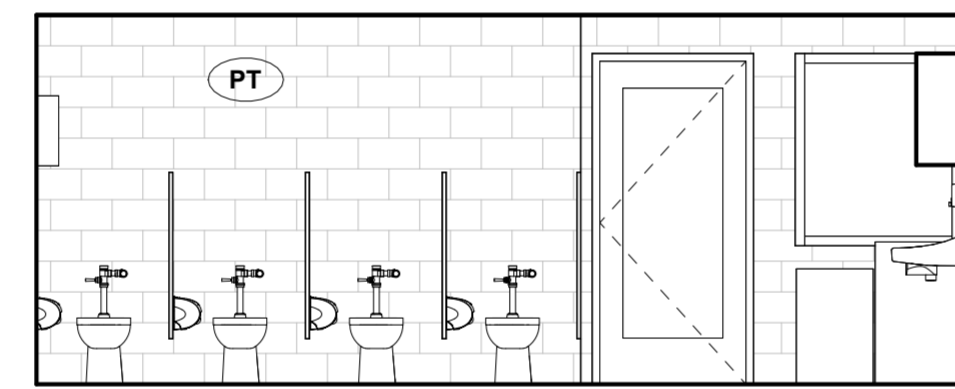
5 Interior Elevation - Kitchen 106 South
1 : 50



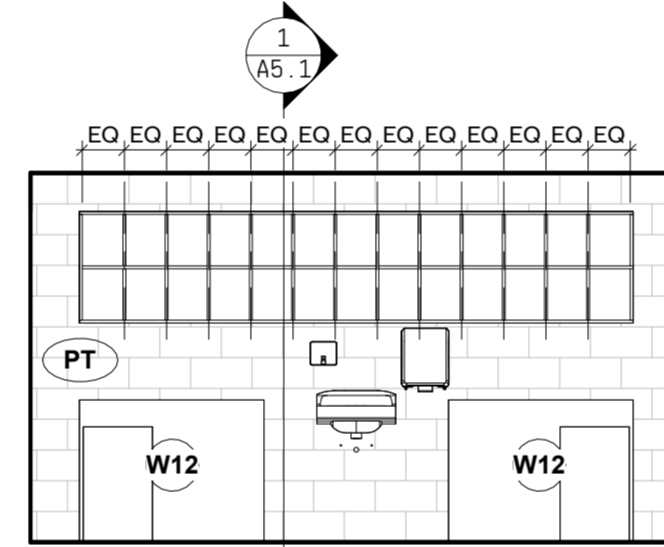
6 Interior Elevation - Servery 106 North
1 : 50



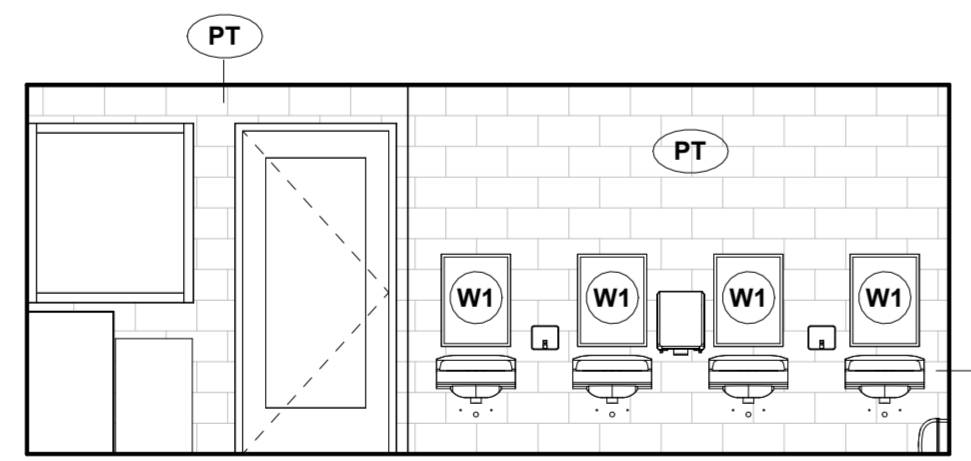
7 Detail Plan - Shared WC 110
1 : 50



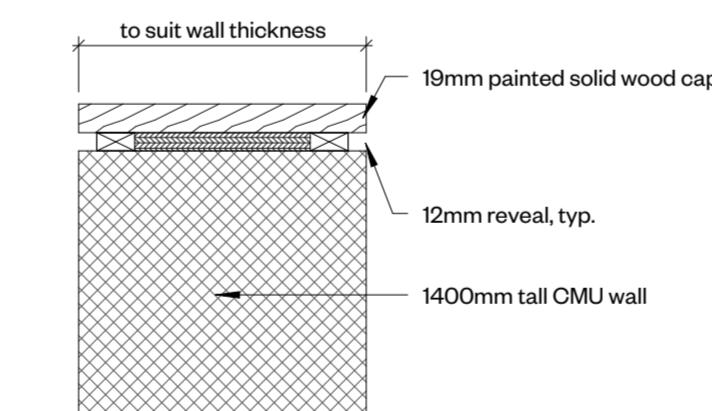
8 Interior Elevation - Shared WC 110 North
1 : 50



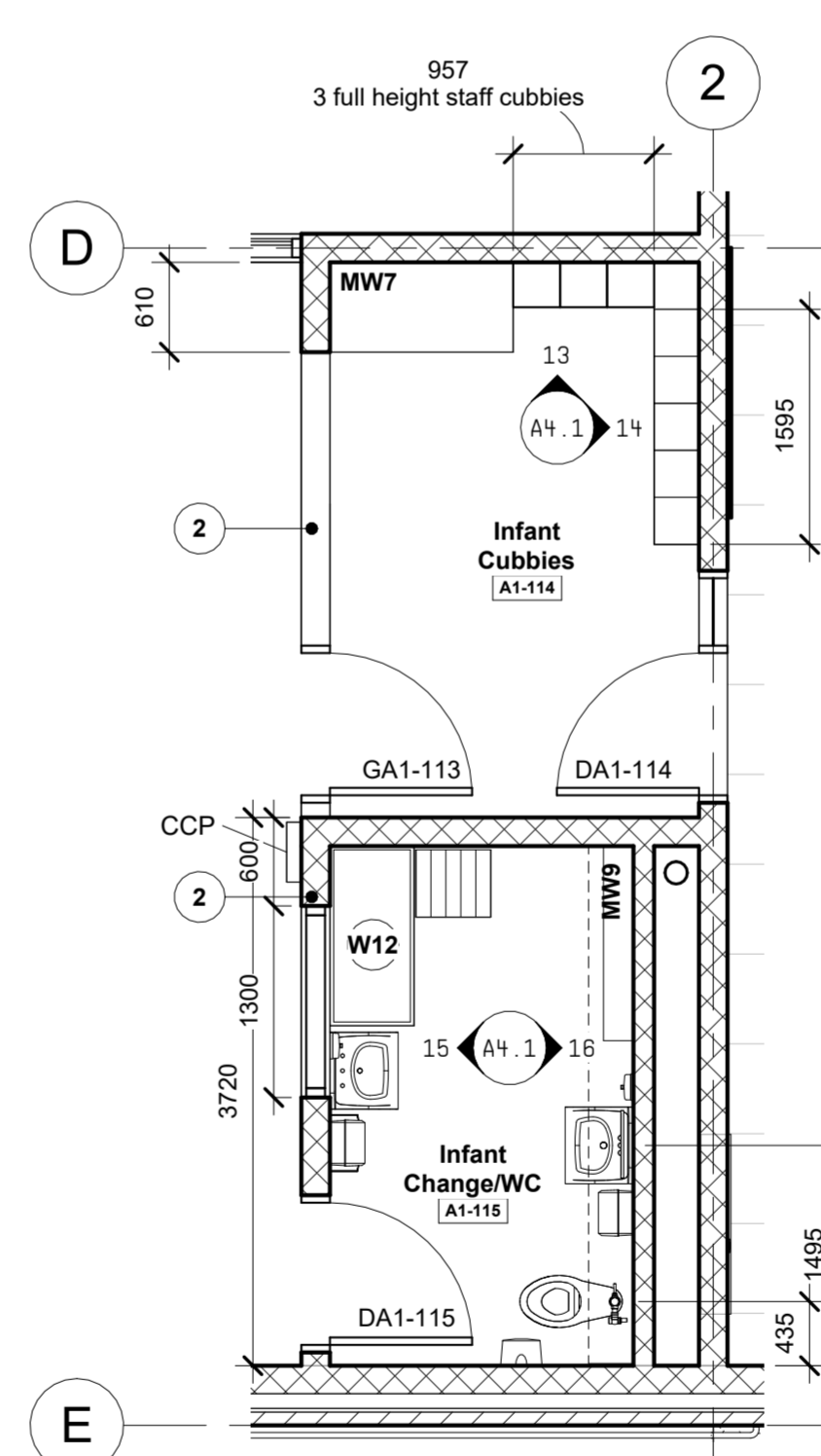
9 Interior Elevation - Shared WC 110 East
1 : 50



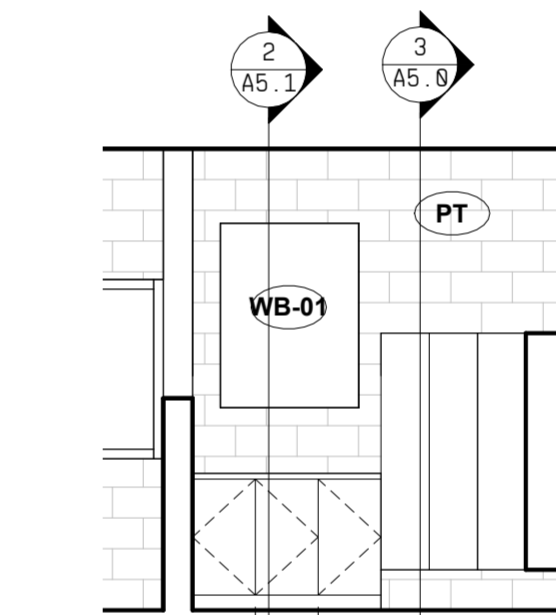
10 Interior Elevation - Shared WC 110 South
1 : 50



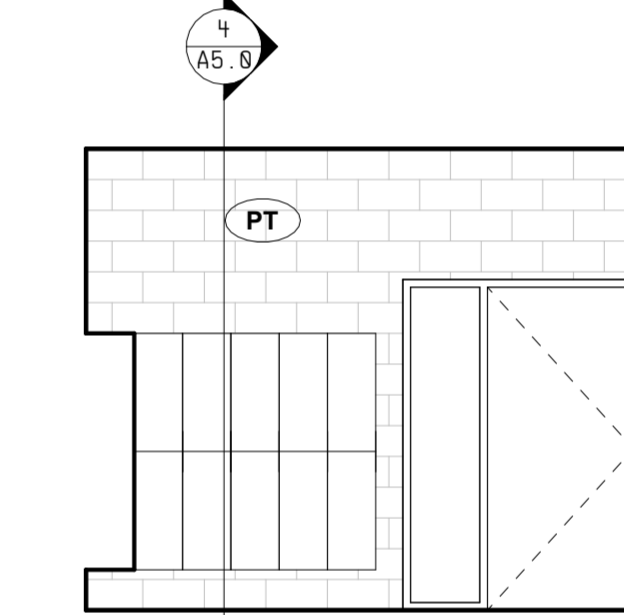
11 1400mm Height Wall Sill Detail
1 : 5



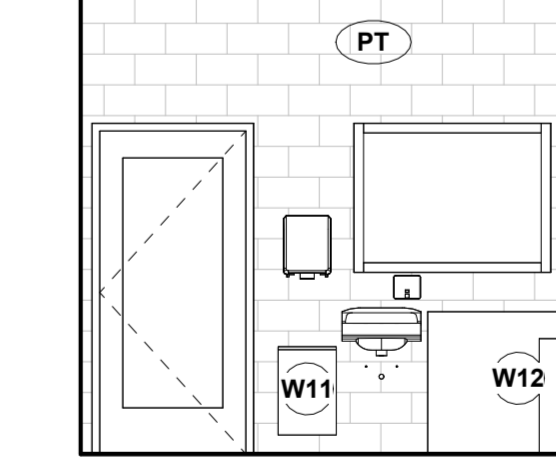
12 Detail Plan - Infant Cubbies & WC
1 : 50



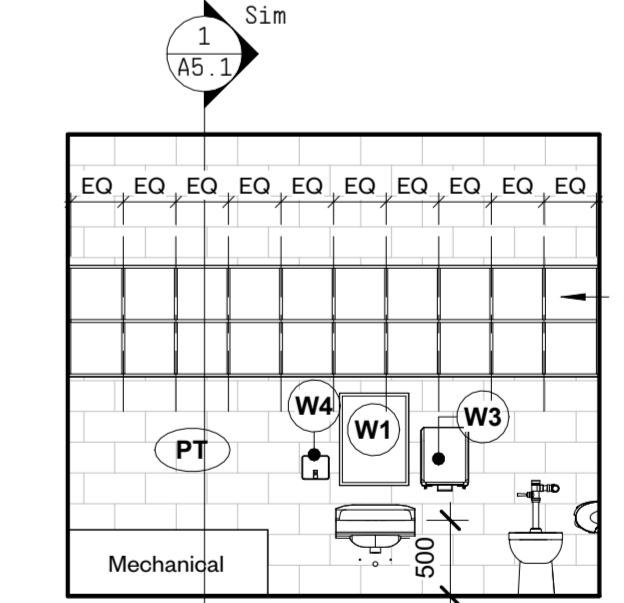
13 Infant Cubbies 114 North
1 : 50



14 Infant Cubbies 114 East
1 : 50

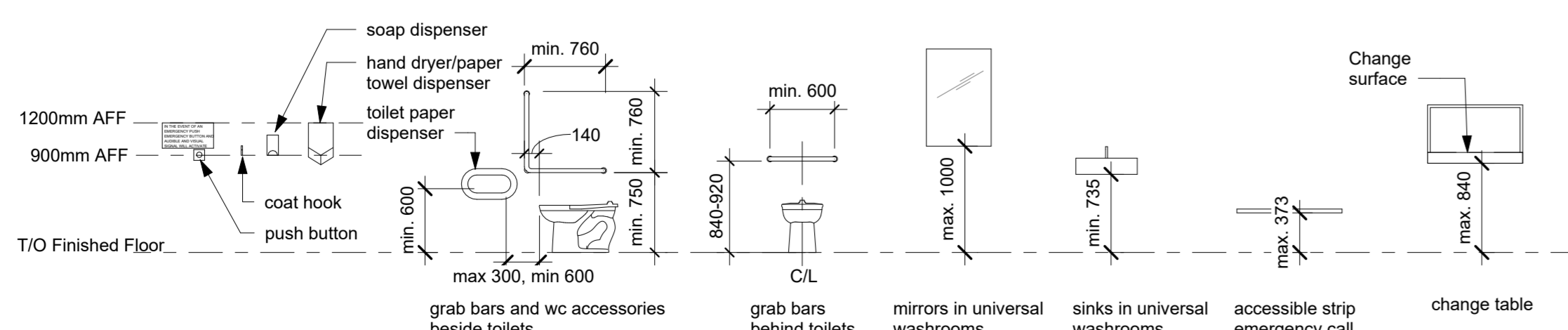


15 Infant WC 115 West
1 : 50

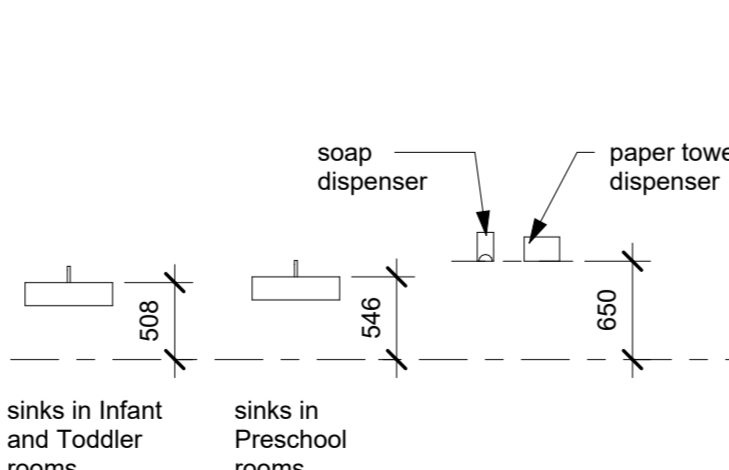


16 Infant WC 115 East
1 : 50

Mounting Schedule

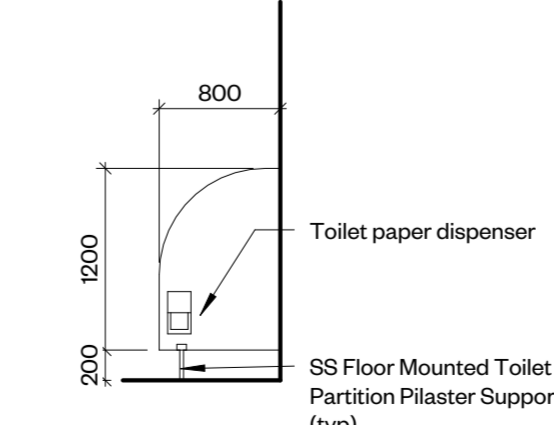


Child-height Mounting Schedule



Notes:

- All controls (power door operator, elevator call buttons, fire alarms, switches, emergency call button and fire extinguishers, coat hooks etc.) to be between 900mm and 1200mm AFF.
- Locations of all accessories and controls to be marked on site prior to installation for final sign off.



17 Typical Child WC Partition
1 : 50

Washroom Accessories	
Note	Description
W1	Mirror - 18" x 24"
W2	Tilted mirror
W3	Paper towel dispenser
W4	Soap dispenser
W5	Toilet paper dispenser
W6	Horizontal grab bar
W7	L-shaped grab bar
W8	Automatic hand dryer
W9	Sanitary napkin disposal
W10	Stainless steel shelf
W11	Wall-mounted waste receptacle
W12	Pre-fabricated change table with roll-out stairs
W13	Coat hook

General Notes	
Note	Description
1	Line of canopy above
2	1400mm wall - refer to detail 11/A4.1 for sill detail
3	Stroller parking area
4	Roof hatch & access ladder
5	Water meter and vertical backflow preventor - see Mechanical
6	Mop sink
7	Utility shelf with hooks and mop holders
8	Drinking fountain/bottle filler - refer to Mechanical
9	Relocated gas meter assembly. Provide new painted steel protective enclosure.
10	Tactile attention indicator
11	50mm painted contrast strip
12	Recessed forced flow heater - see Mechanical
13	Crbs (N.I.C.)
14	CMU infill wall with brick cladding to match existing brick at location of demolished window and door opening.
15	Exhaust and intake ducts - refer to Mechanical

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Rev	Description	Date
4	60% Client Review	2022-11-11
5	Reissued for 60% Client Review	2023-01-25
6	Issued for 80% Costing	2023-02-27
14	Issued for 90% Client Review	2024-10-02
15	Issued for Permit	2024-12-11
16	Issued for Tender	2025-01-14

- Legend**
- Existing partition to remain
 - New partition as scheduled
- Symbols Legend**
- Partition Tag - refer to partition schedule
 - Exterior Wall Tag - refer to partition schedule
 - Window tag - refer to schedule
 - Glazed Screen Tag - refer to schedule
 - New Door tag - refer to schedule
 - Millwork Tag
 - Ceiling Material Height above Finished Floor
 - (E) Existing
 - N.I.C. Not in Contract
 - PB Push Button - see Electrical
 - RD Roof Drain - see Mechanical
 - UV Unit Ventilator - see Mechanical

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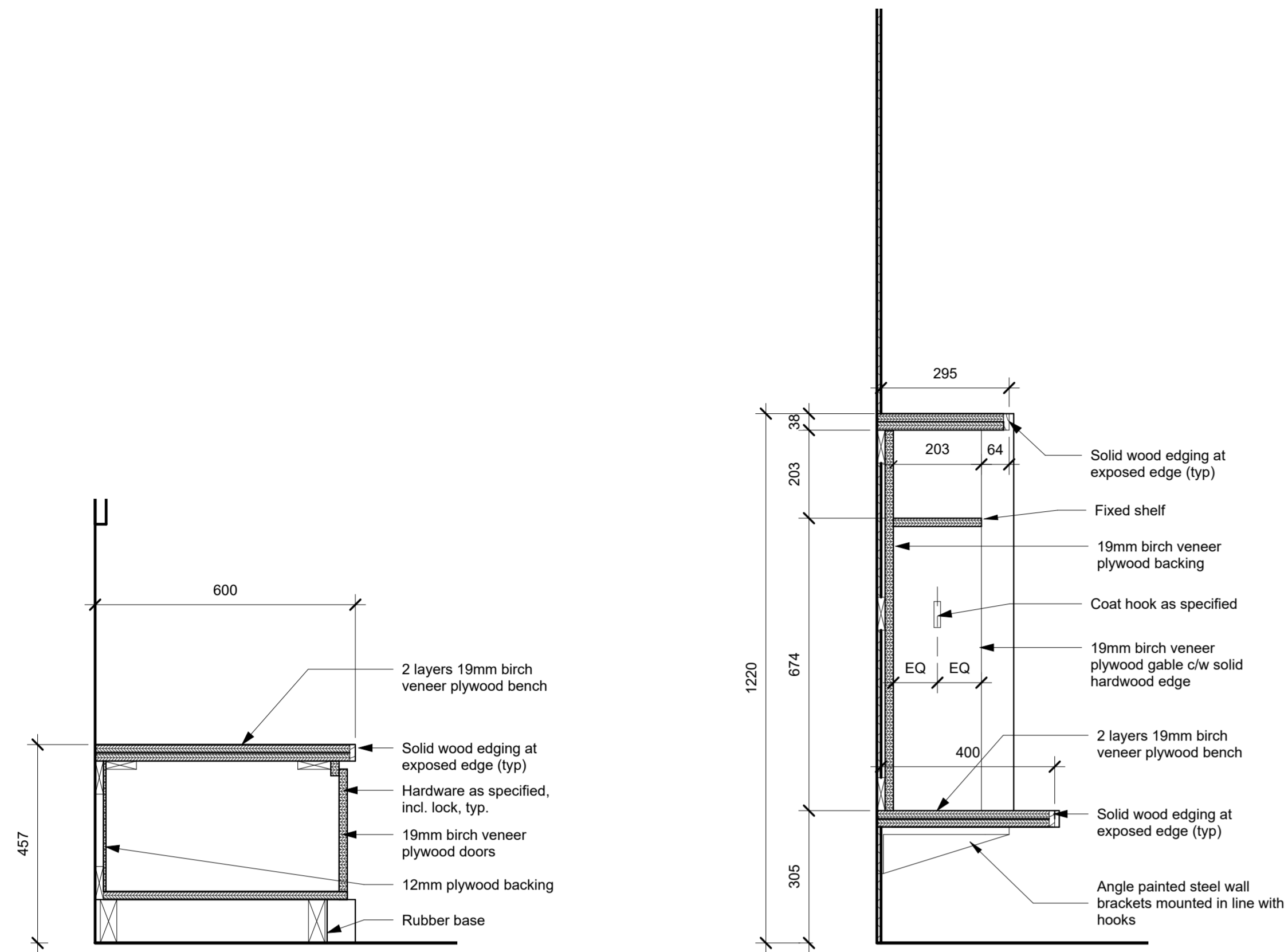
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DATE:	STATUS:
2025-01-16	Issued for Tender

Detail Plans & Interior Elevations

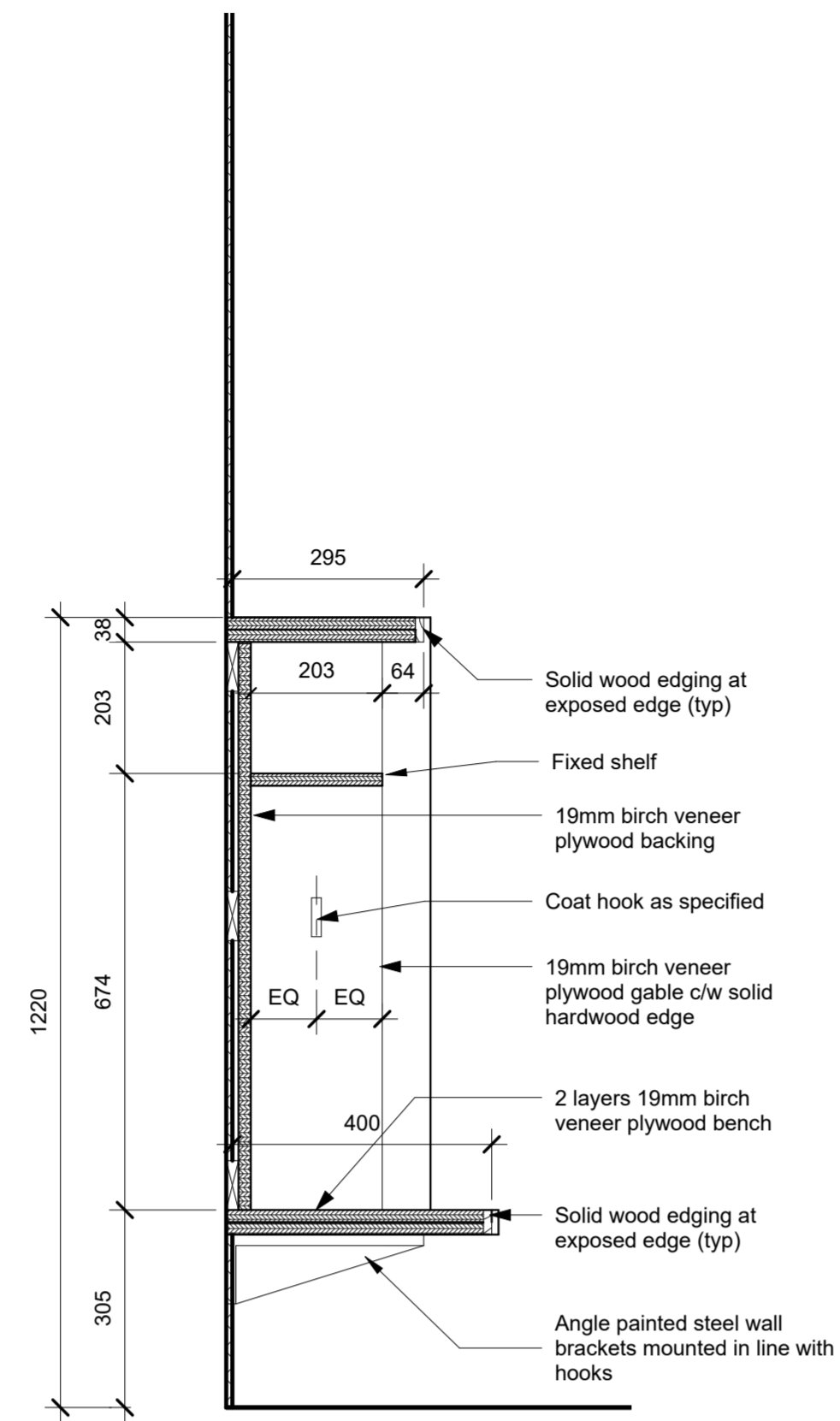
Project North

A4.1

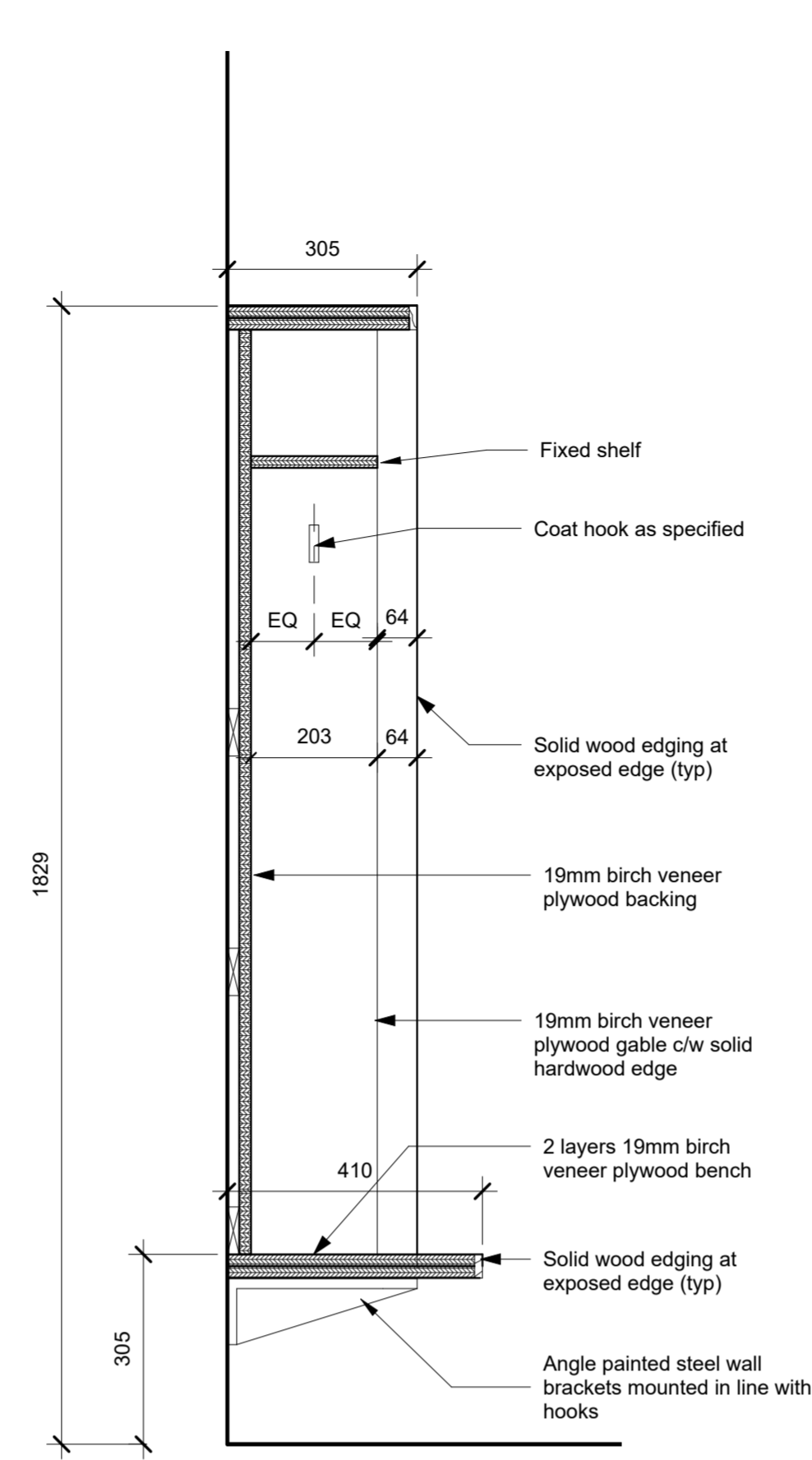
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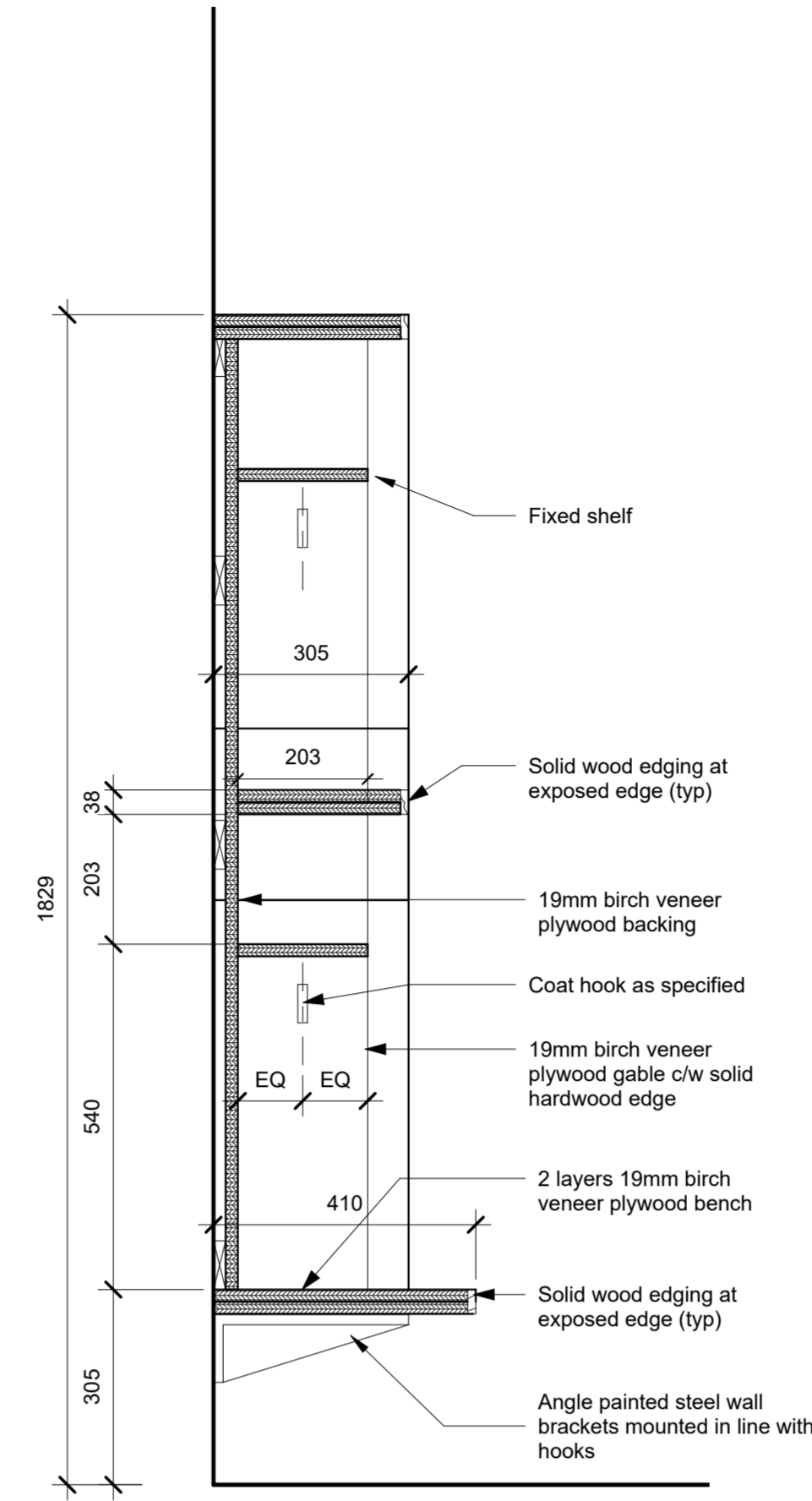
1 MW1 - Section
1 : 10



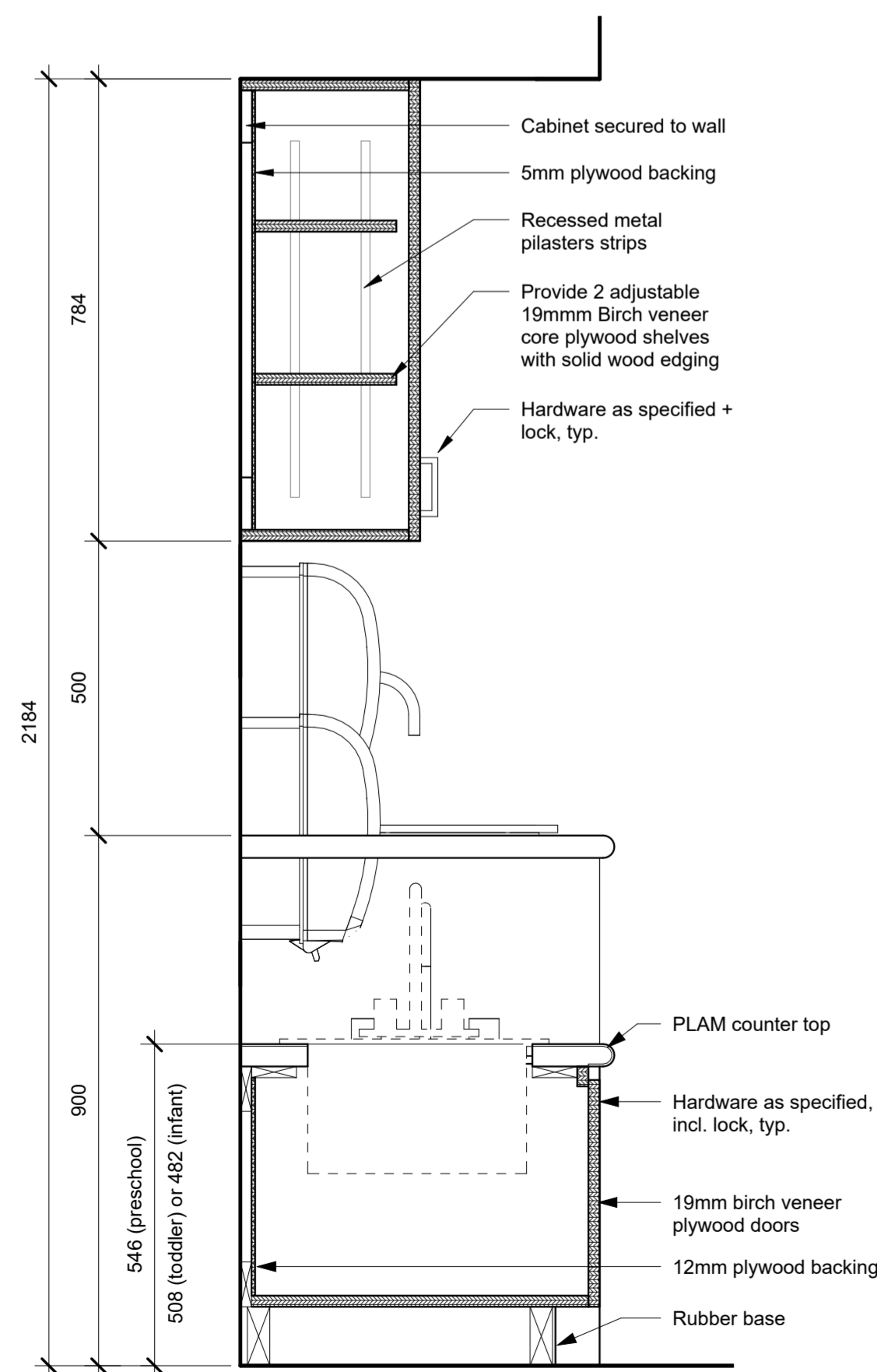
2 Typical Cubby - Section
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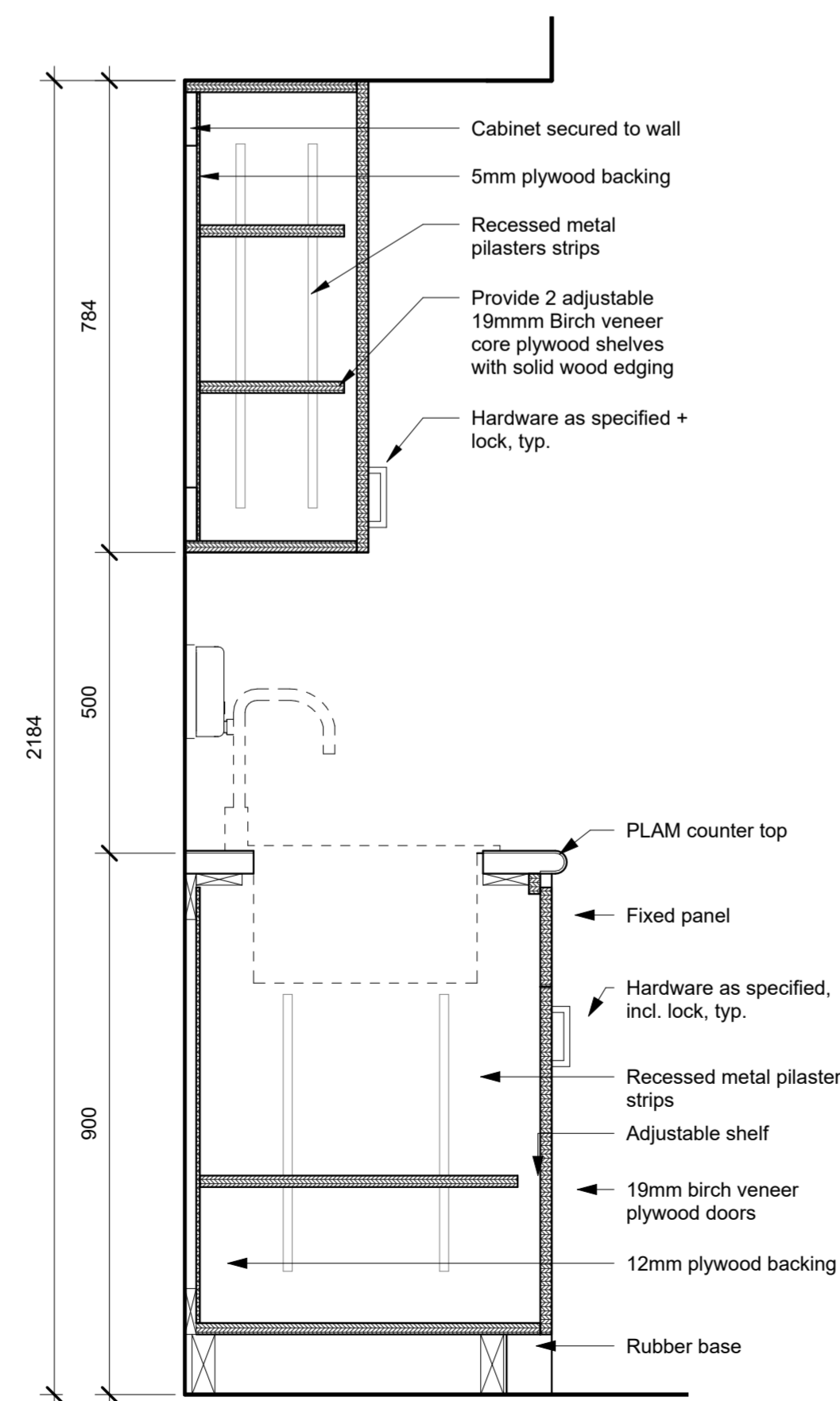
3 Teacher Cubby - Section
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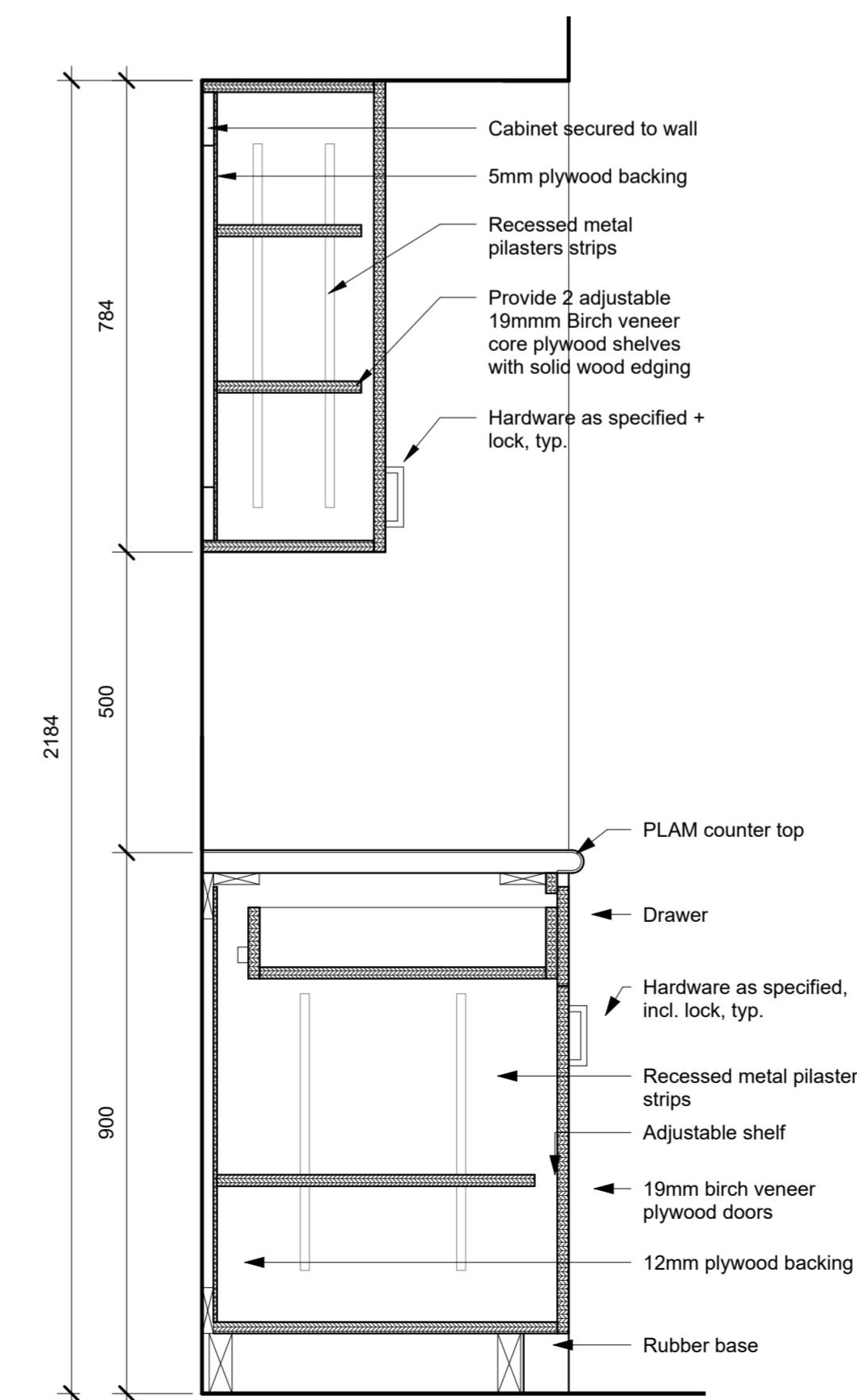
4 Infant Stacked Cubbies - Section
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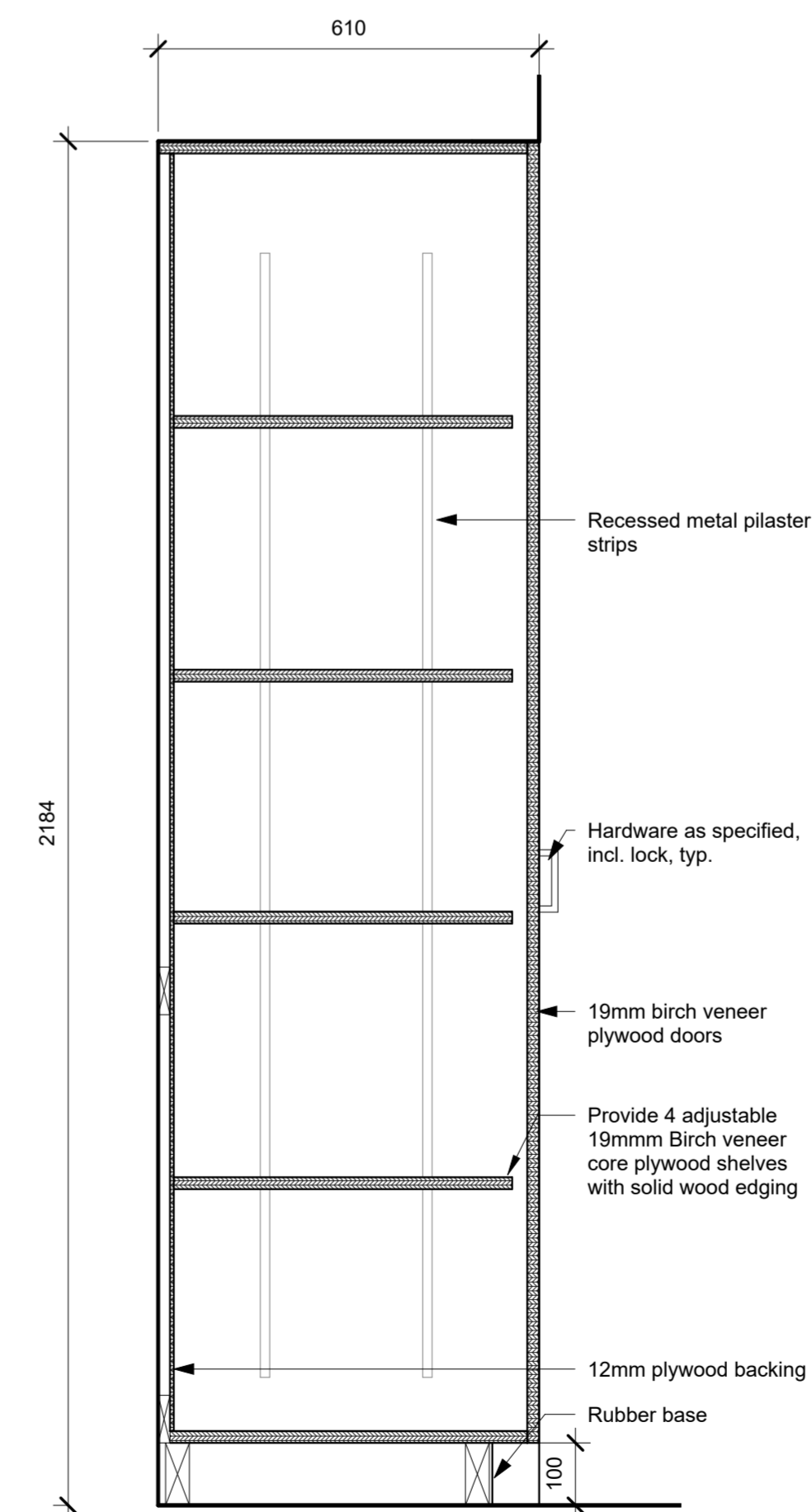
5 Child-height Sink - Section 1
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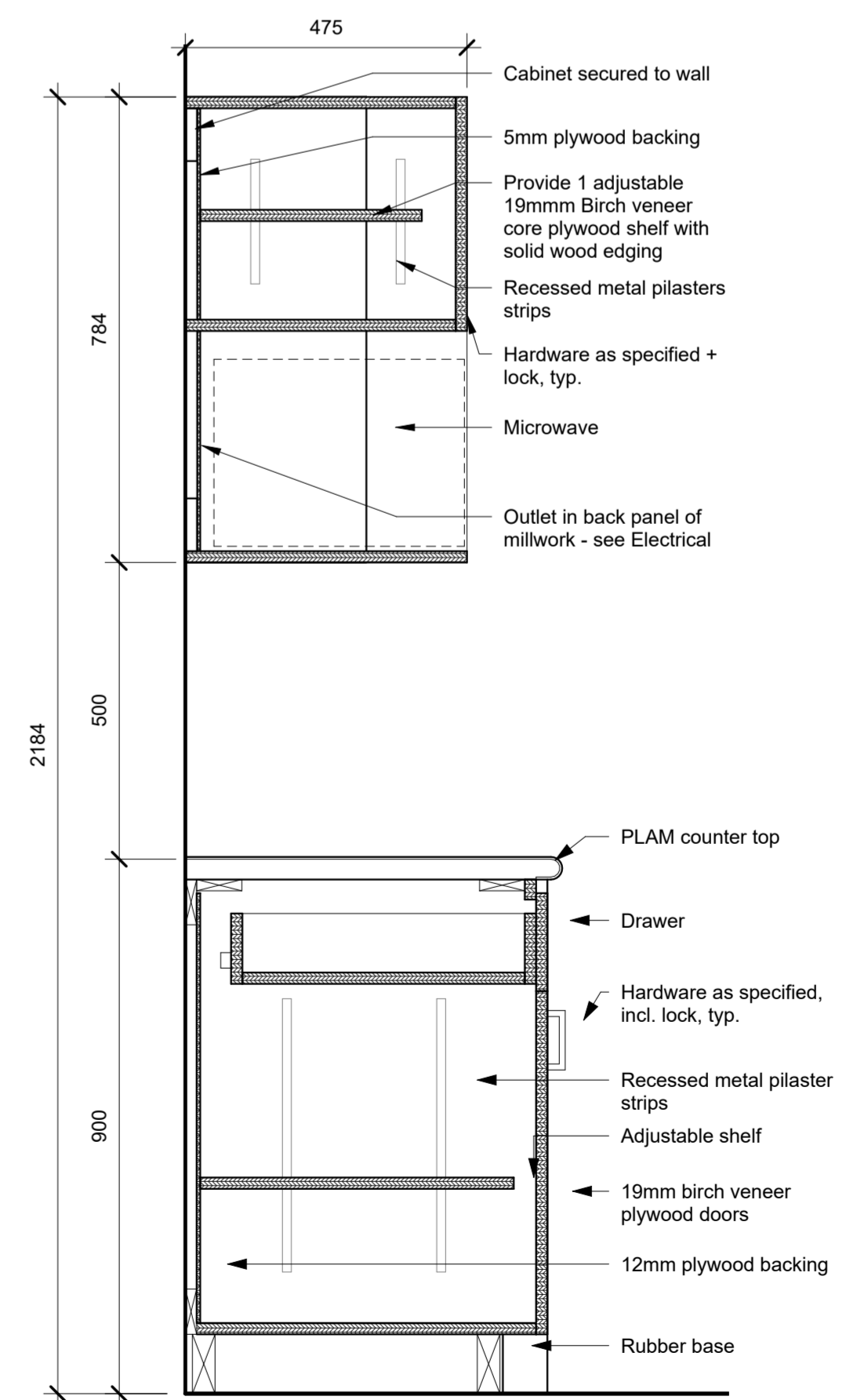
6 Adult Sink - Section
1 : 10



7 Section 6
1 : 10



8 Full-height Storage
1 : 10



9 Section @ Microwave Shelf
1 : 10

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14	Issued for 90% Client Review	2024-10-02
15	Issued for Permit	2024-12-11
16	Issued for Tender	2025-01-14

Millwork Hardware Legend

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

Cabinet/Drawer Pulls: Richelieu Catalogue 6211 (BP62112BHS)

Cam lock for all cabinet doors & drawers: National NCL-C8060-4GKA413A (keyed alike except as noted on shop drawing review)

Coat Hook (cubbies): Richelieu Safety Hook - HD (HDB001P), colour to be selected by the Consultant

Concealed hinges: Blum Blumotion 110 degrees

Concealed shelf support brackets: Richelieu 162172G

Processed metal pilaster strips: Richelieu Heavy Duty Metal Pilaster 2332G -length to suit, flush installation

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

Soft close mechanism at all drawers: Richelieu BP973099IO

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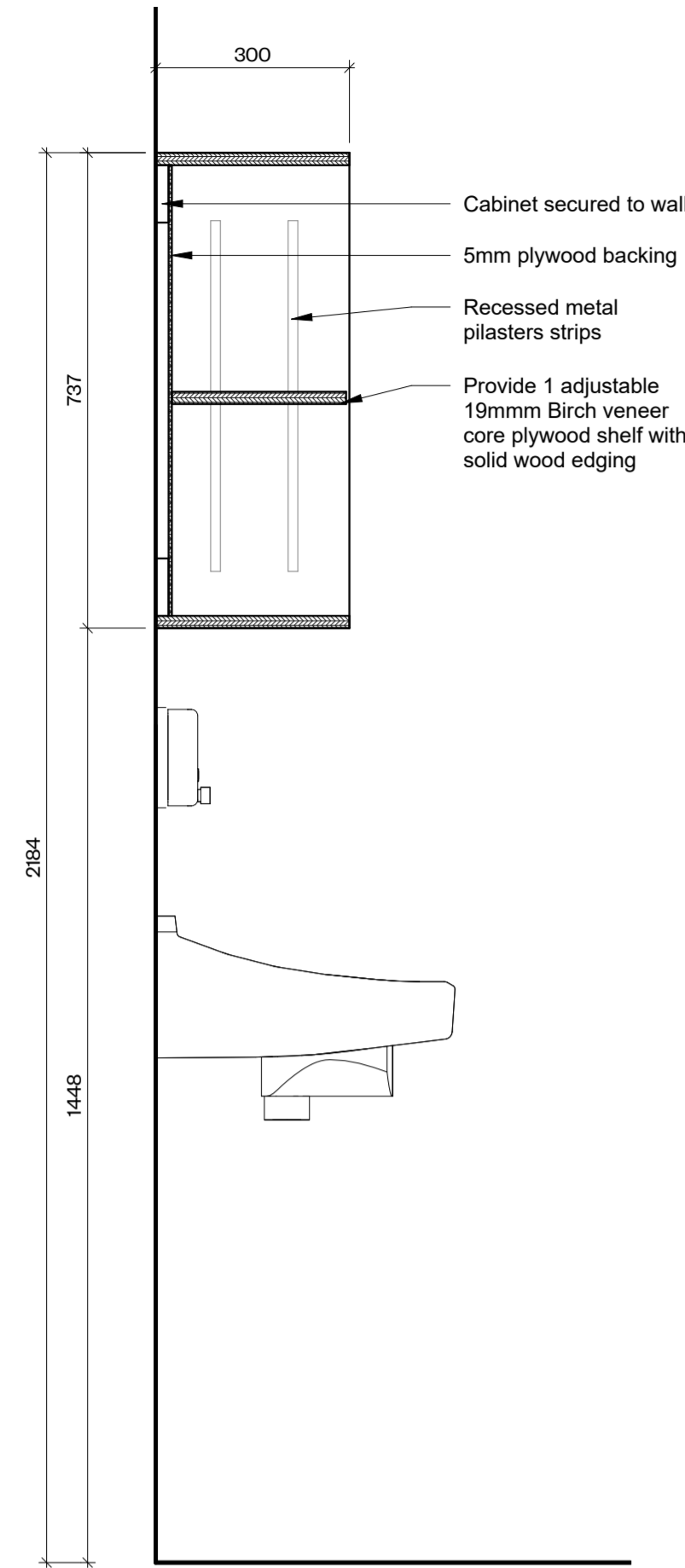
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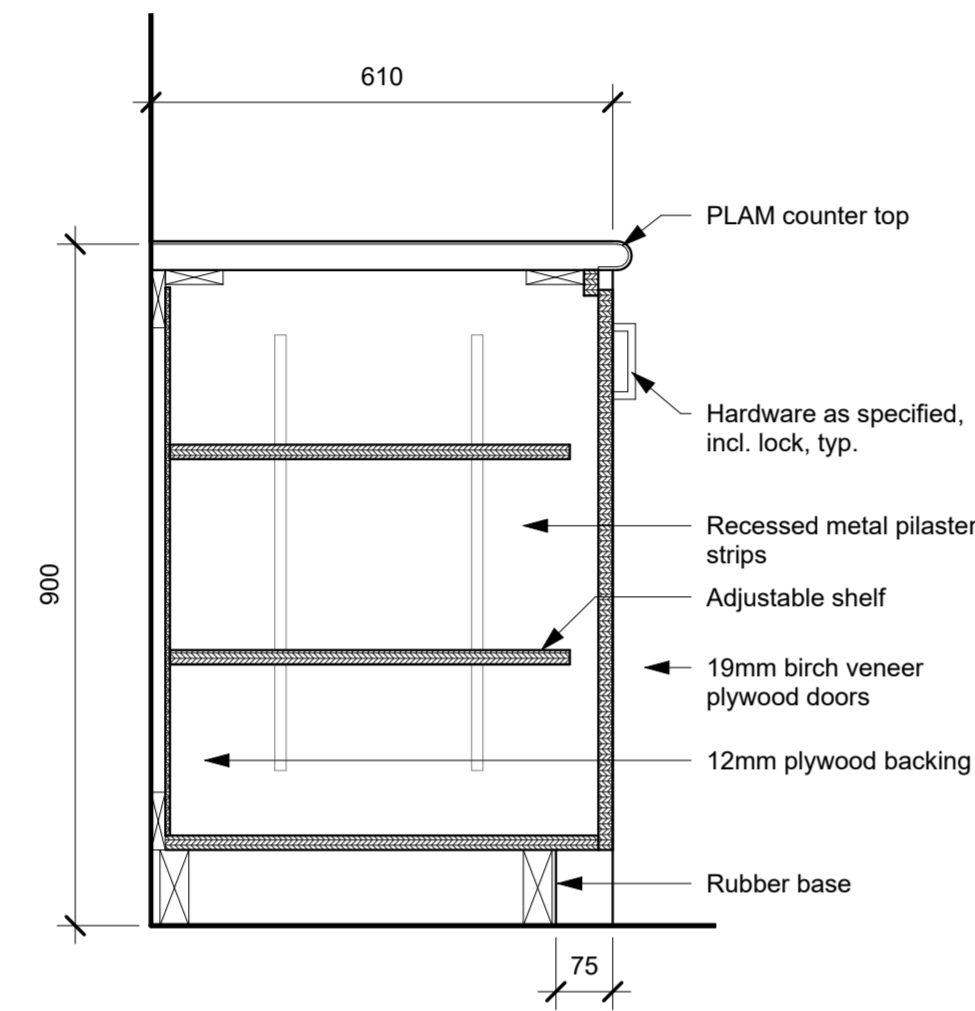
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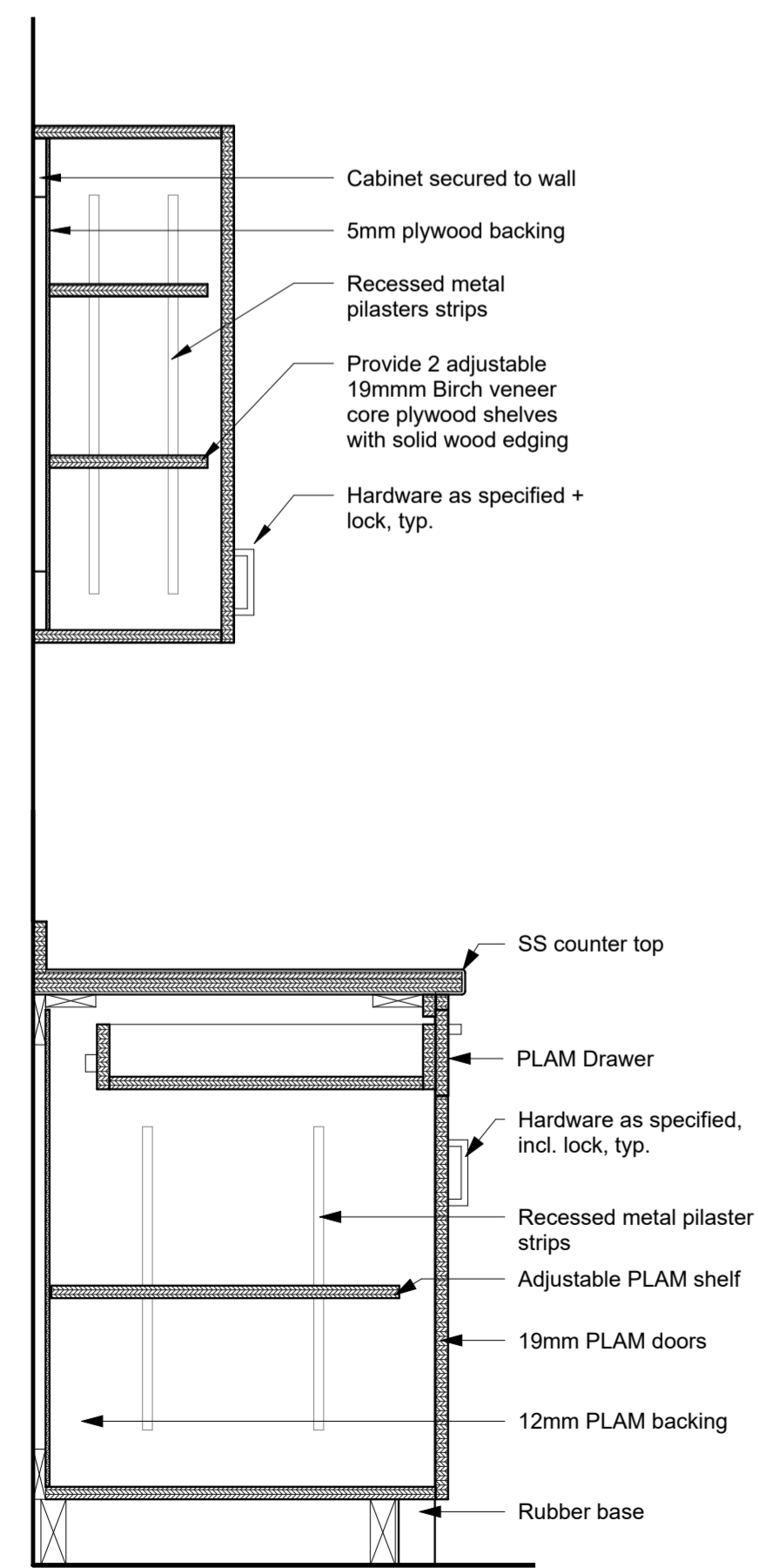
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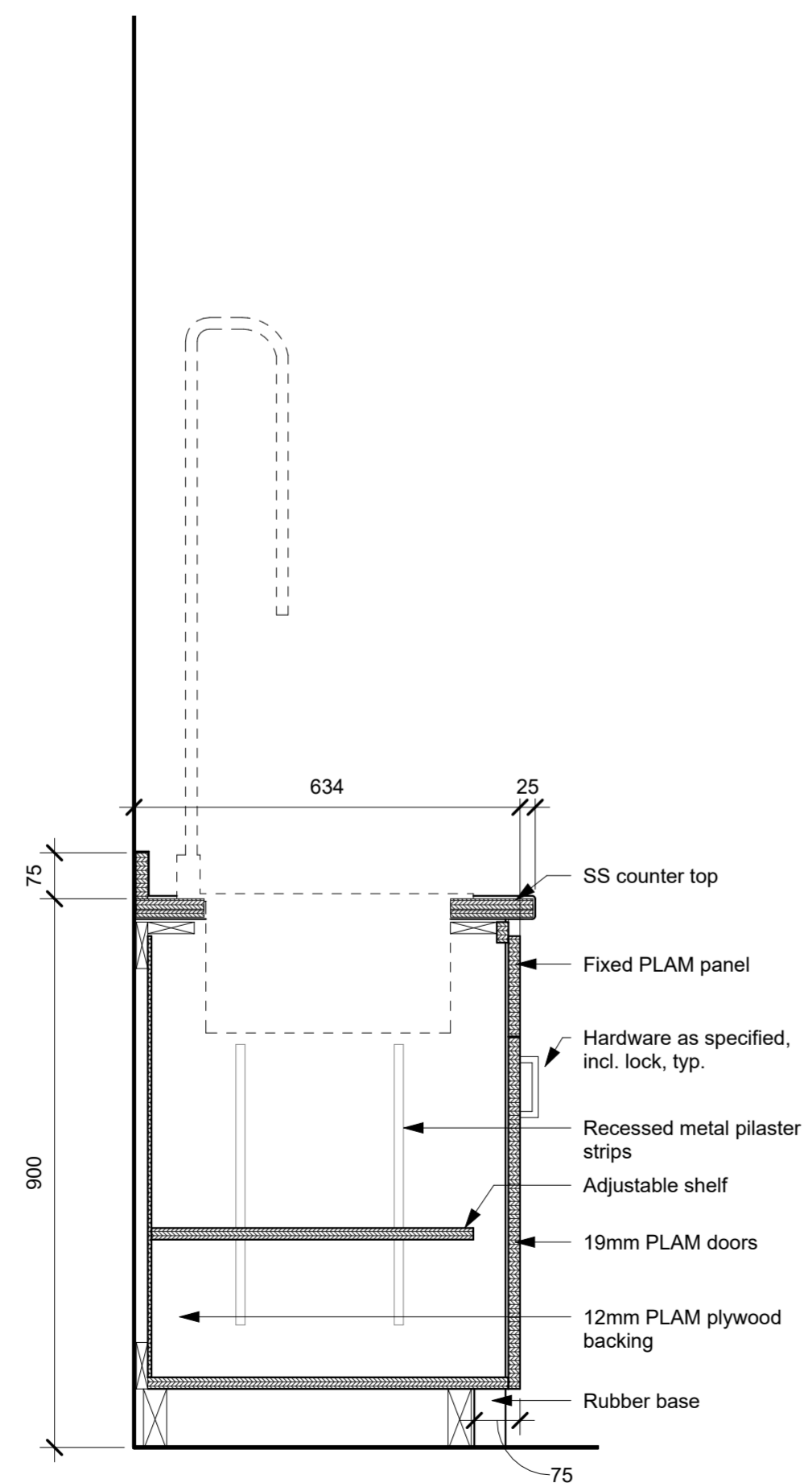
① Open Upper Shelves - Section
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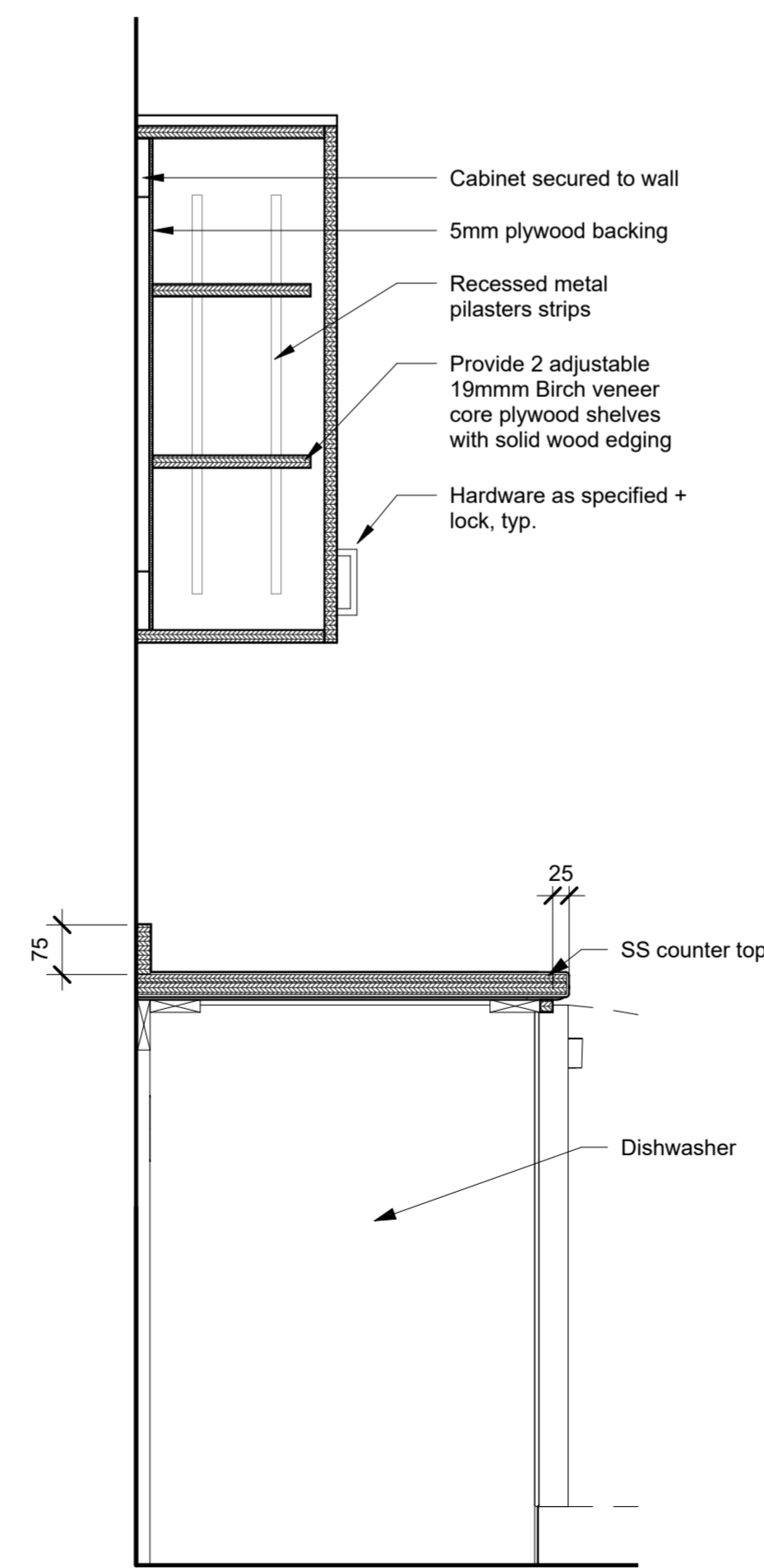
② MW? (Dressing Table) - Section
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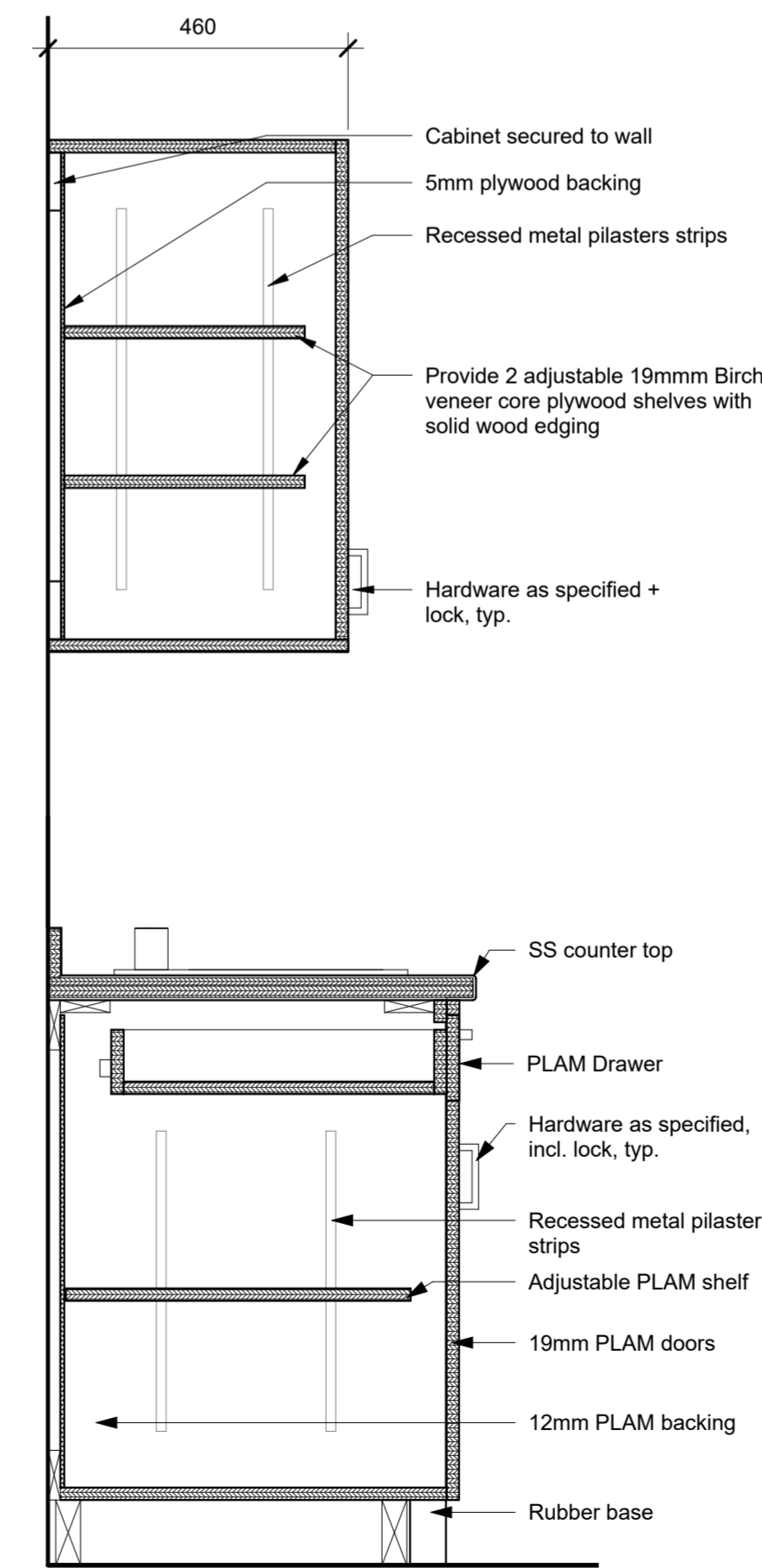
③ MW5 - Section 1
1 : 10



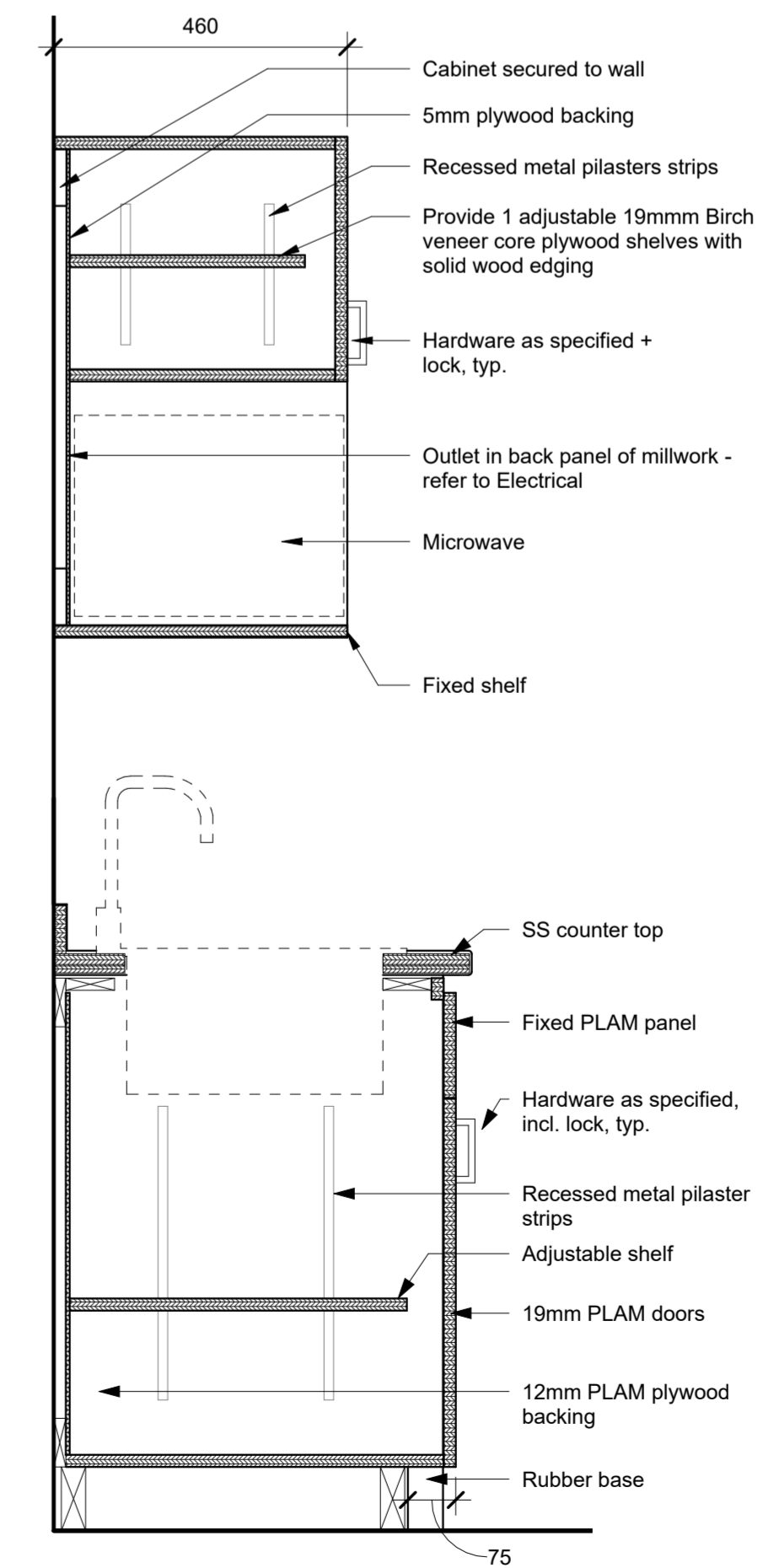
④ MW5 - Section 2 through sink
1 : 10



⑤ MW5 - Section 3 through dishwasher
1 : 10



⑥ MW4 - Section 1
1 : 10



⑦ MW4 - Section 2
1 : 10

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Rev	Description	Date
14	Issued for 90% Client Review	2024-10-02
15	Issued for Permit	2024-12-11
16	Issued for Tender	2025-01-14

Millwork Hardware Legend

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

Cabinet/Drawer Pulls: Richelieu Catalogue 6211 (BP6211128195)

Cam lock for all cabinet doors & drawers: National NCL-C8060-4GKA413A (keyed alike except as noted on shop drawing review)

Coat Hook (cubbies): Richelieu SafetyHook - HD (HDB001P), colour to be selected by the Consultant

Concealed hinges: Blum Blumotion 110 degrees

Concealed shelf support brackets: Richelieu 1621712G

Recessed metal pilaster strips: Richelieu Heavy Duty Metal Pilaster 2332G -length to suit, flush installation

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

Soft close mechanism at all drawers: Richelieu BP97309910

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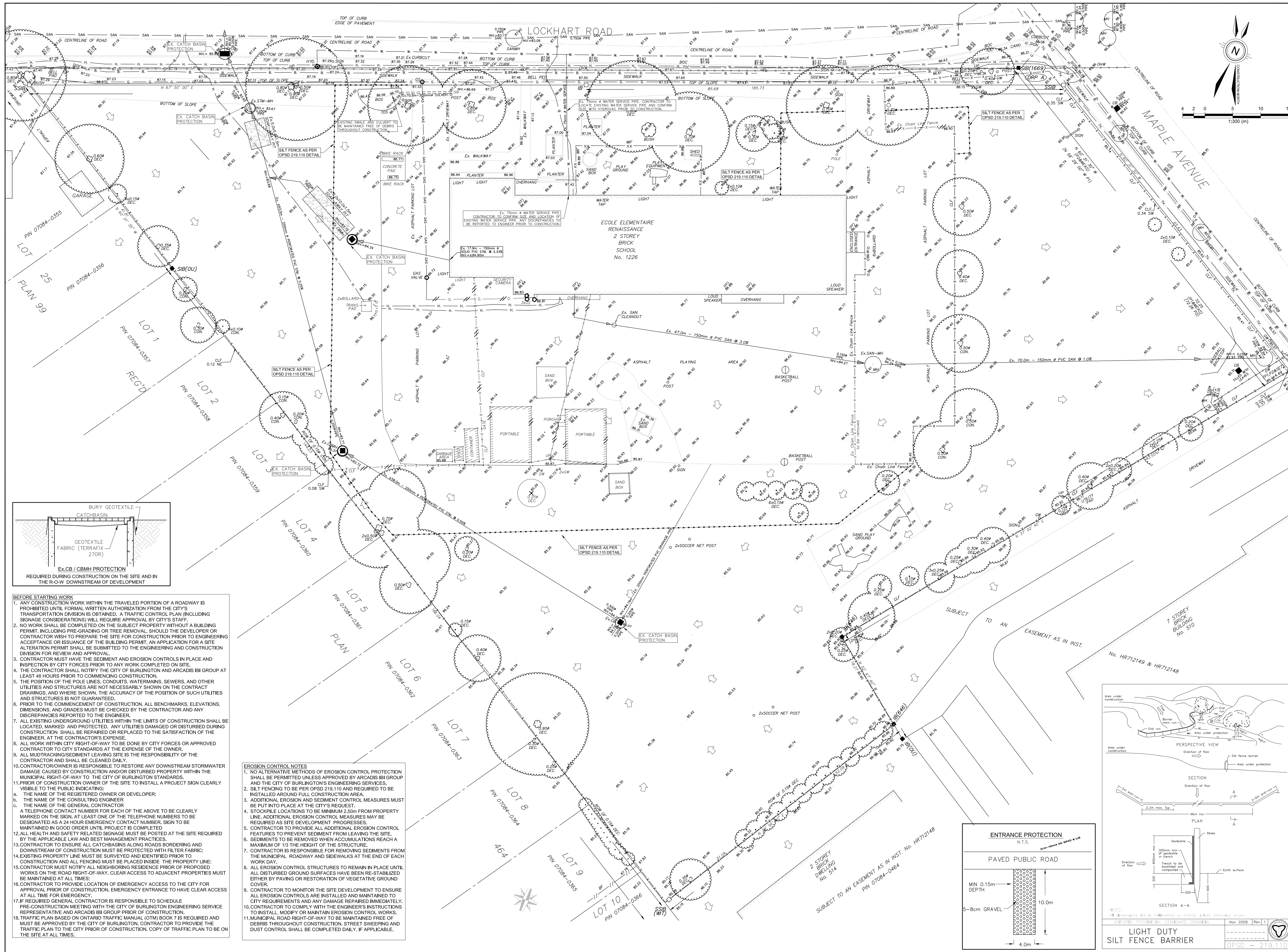
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Millwork Details



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1	ISSUED FOR 60% CLIENT REVIEW	2023-01-23
2	ISSUED FOR 80% CLIENT REVIEW	2023-02-24
3	FIRST SPA SUBMISSION	2023-03-10
4	SECOND SPA SUBMISSION	2024-05-22
5	WATER SERVICE REVISION	2024-07-04
6	ISSUED FOR 90% CLIENT REVIEW	2024-08-16
7	REVISIONS AS PER CITY COMMENT	2024-09-04
8	ISSUED FOR PERMIT/TENDER	2024-12-09
9	ISSUED FOR TENDER	2025-01-17



LEGEND

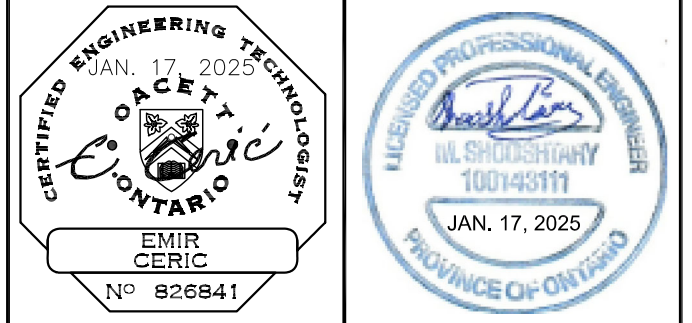
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- STM-MH - EXISTING STORM MANHOLE
- CBMH - EXISTING CB MANHOLE
- SAN-MH - EXISTING SANITARY MANHOLE
- - EXISTING STORM FLOW DIRECTION
- - EXISTING SANITARY FLOW DIRECTION
- - EXISTING HYDRANT
- - EXISTING WATER VALVE
- - EXISTING WATERMAIN
- - EXISTING DECIDUOUS TREE REMAIN
- - EXISTING CONIFEROUS TREE TO REMAIN
- ✕ - TREE TO BE REMOVED
- ✕ - REMOVE EXISTING STORM, SANITARY SEWER AND WATERMAIN INCLUDING STRUCTURES AND FITTINGS.
- - ORIGINAL GROUND CONTOUR
- - ORIGINAL GROUND ELEVATION
- - EXISTING WOOD BOARD FENCE
- - EXISTING CHAIN LINK FENCE
- - EXISTING OVERLAND FLOW ROUTE

BENCHMARK INFO
 ELEVATIONS ARE REFERRED TO THE CITY OF BURLINGTON BENCHMARK No. 212, HAVING ON ELEVATION OF 85.626 m.

LOCAL BENCHMARK INFO
 TOP OF FIRE HYDRANT FRONTING THE SITE, HAVING ON ELEVATION OF 88.500 m.

THIS PLAN TO BE READ IN CONJUNCTION WITH THE SITE AND GRADING PLAN AND THE STORM WATER MANAGEMENT BRIEF / REPORT PREPARED BY IBI GROUP.

THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO THEM.



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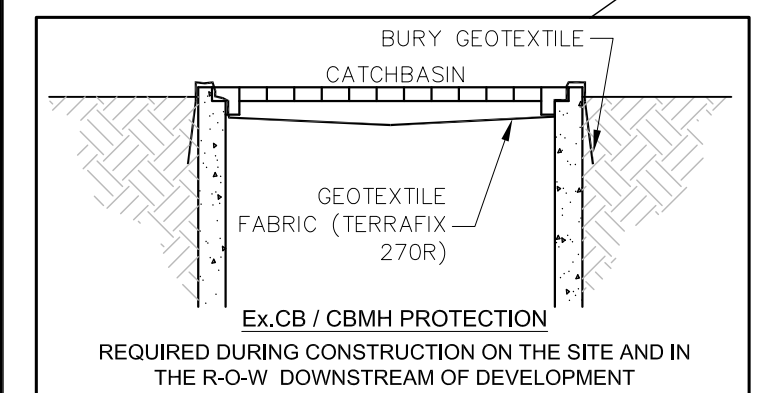
PROJECT
ÉCOLE ÉLÉMENTAIRE RENAISSANCE - CHILD CARE BUILDING ADDITION
 1226 Lockhart Rd, Burlington

PROJECT NO: 139391
 DRAWN BY: E. CERIC
 PROJECT MGR: E. CERIC

SCALE: 1:300
 CHECKED BY: M. SHOOSHTRY
 APPROVED BY: M. SHOOSHTRY

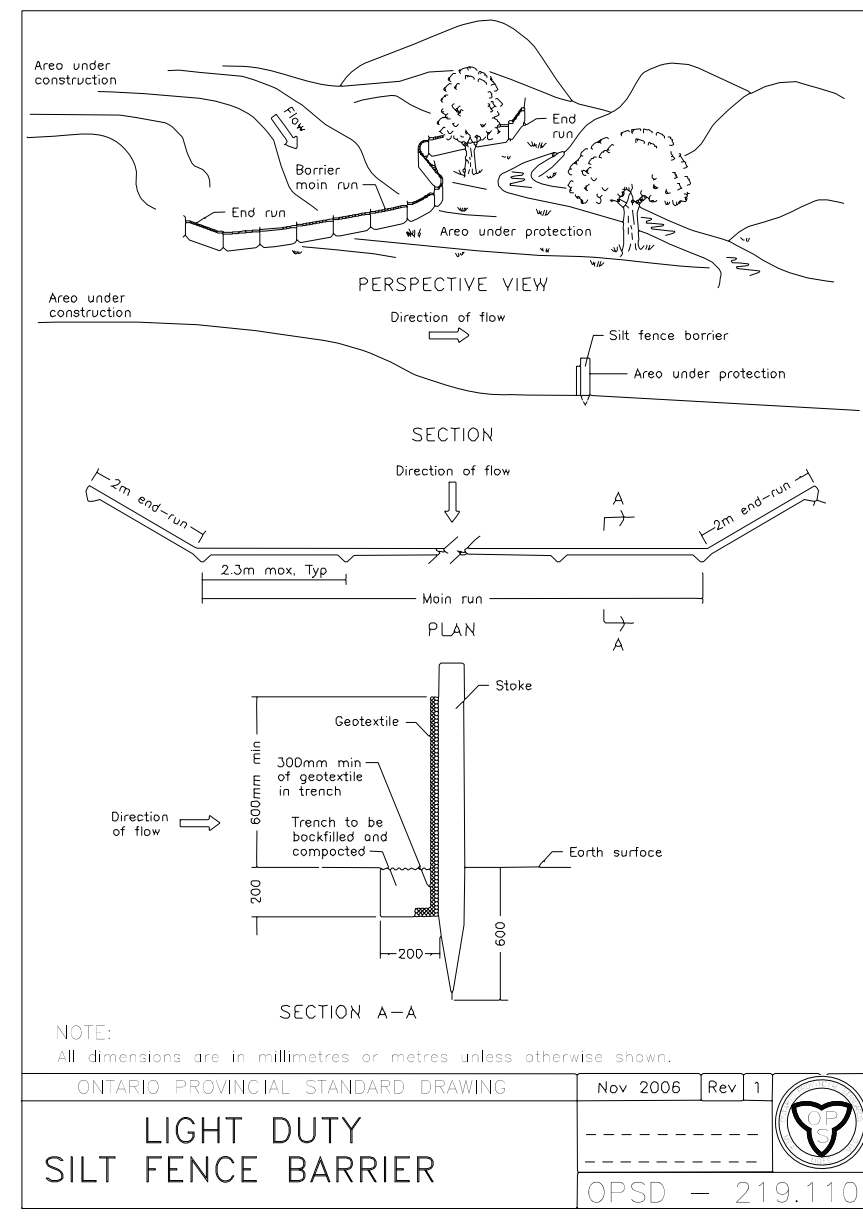
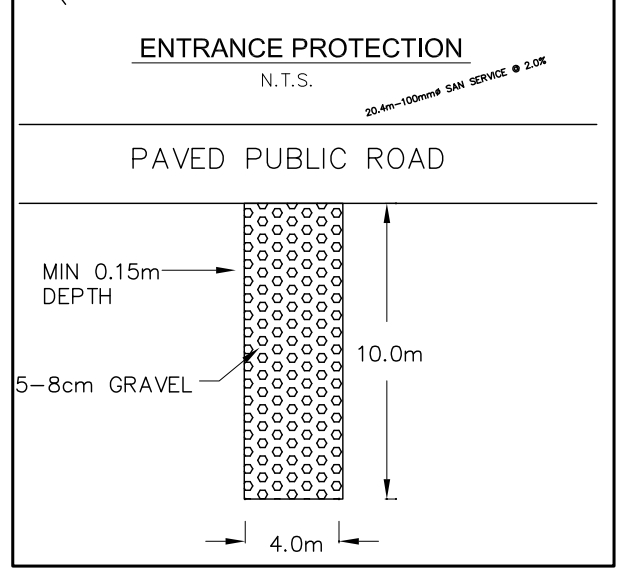
SHEET TITLE
EXISTING CONDITIONS, REMOVALS AND EROSION AND SEDIMENT CONTROL PLAN

SHEET NUMBER: 1
 ISSUE: 9

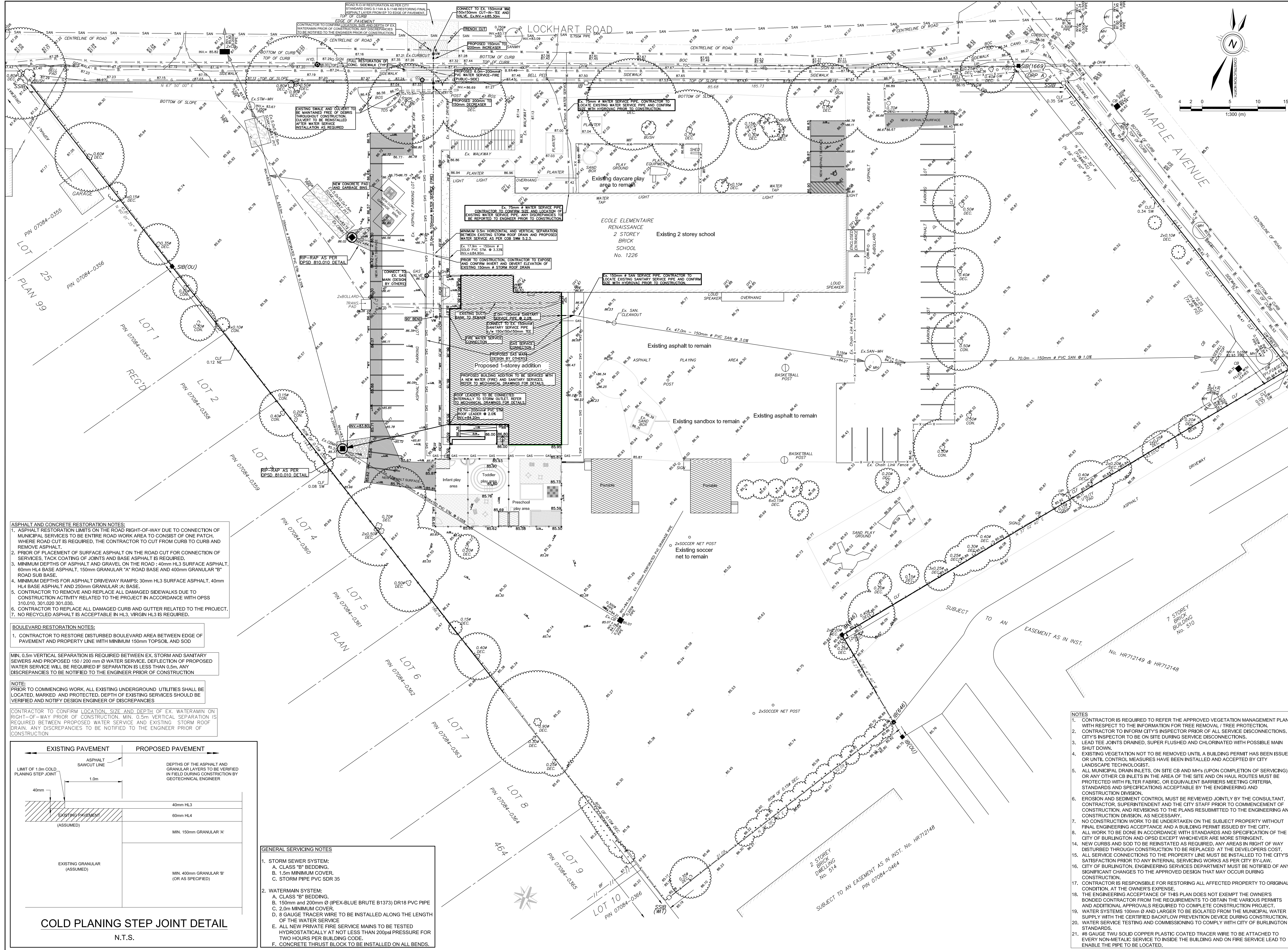


- BEFORE STARTING WORK
- ANY CONSTRUCTION WORK WITHIN THE TRAVELLED PORTION OF A ROADWAY IS PROHIBITED UNTIL FORMAL WRITTEN AUTHORIZATION FROM THE CITY'S TRANSPORTATION DIVISION IS OBTAINED. A TRAFFIC CONTROL PLAN (INCLUDING SIGNAGE CONSIDERATIONS) WILL REQUIRE APPROVAL BY CITY'S STAFF.
 - NO WORK SHALL BE COMPLETED ON THE SUBJECT PROPERTY WITHOUT A BUILDING PERMIT, INCLUDING PRE-GRADING OR TREE REMOVAL. SHOULD THE DEVELOPER OR CONTRACTOR WISH TO PREPARE THE SITE FOR CONSTRUCTION PRIOR TO ENGINEERING ACCEPTANCE OR ISSUANCE OF THE BUILDING PERMIT, AN APPLICATION FOR A SITE ALTERATION PERMIT SHALL BE SUBMITTED TO THE ENGINEERING AND CONSTRUCTION DIVISION FOR REVIEW AND APPROVAL.
 - CONTRACTOR MUST HAVE THE SEDIMENT AND EROSION CONTROLS IN PLACE AND INSPECTION BY CITY FORCES PRIOR TO ANY WORK COMPLETED ON SITE.
 - THE CONTRACTOR SHALL NOTIFY THE CITY OF BURLINGTON AND ARCADIS IBI GROUP AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
 - THE POSITION OF THE POLE LINES, CONDUITS, WATERMANS, SEWERS, AND OTHER UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED.
 - PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ALL BENCHMARKS, ELEVATIONS, DIMENSIONS, AND GRADES MUST BE CHECKED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED TO THE ENGINEER.
 - ALL EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE LOCATED, MARKED AND PROTECTED. ANY UTILITIES DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
 - ALL WORK WITHIN CITY RIGHT-OF-WAY TO BE DONE BY CITY FORCES OR APPROVED CONTRACTOR TO CITY STANDARDS AT THE EXPENSE OF THE OWNER.
 - ALL MUDTRACKING/SEDIMENT LEAVING SITE IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CLEANED DAILY.
 - CONTRACTOR/OWNER IS RESPONSIBLE TO RESTORE ANY DOWNSTREAM STORMWATER DAMAGE CAUSED BY CONSTRUCTION AND TO RESTORE DISTURBED PROPERTY WITHIN THE MUNICIPAL RIGHT-OF-WAY TO THE CITY OF BURLINGTON STANDARDS.
 - PRIOR OF CONSTRUCTION OWNER OF THE SITE TO INSTALL A PROJECT SIGN CLEARLY VISIBLE TO THE PUBLIC UNTIL PROJECT IS COMPLETED.
 - THE NAME OF THE REGISTERED OWNER OR DEVELOPER;
 - THE NAME OF THE CONSULTING ENGINEER;
 - THE NAME OF THE GENERAL CONTRACTOR;
 - A TELEPHONE CONTACT NUMBER FOR EACH OF THE ABOVE TO BE CLEARLY MARKED ON THE SIGN, AT LEAST ONE OF THE TELEPHONE NUMBERS TO BE DESIGNATED AS A 24 HOUR EMERGENCY CONTACT NUMBER. SIGN TO BE MAINTAINED IN GOOD ORDER UNTIL PROJECT IS COMPLETED.
 - ALL HEALTH AND SAFETY RELATED SIGNAGE MUST BE POSTED AT THE SITE REQUIRED BY THE APPLICABLE LAW AND BEST MANAGEMENT PRACTICES.
 - CONTRACTOR TO ENSURE ALL CATCHBASINS ALONG ROADS BORDERING AND DOWNSTREAM OF CONSTRUCTION MUST BE PROTECTED WITH FILTER FABRIC;
 - EXISTING PROPERTY LINE MUST BE SURVEYED AND IDENTIFIED PRIOR TO CONSTRUCTION AND ALL FENCING MUST BE PLACED INSIDE THE PROPERTY LINE;
 - CONTRACTOR MUST NOTIFY ALL NEIGHBORING RESIDENCE PRIOR OF PROPOSED WORKS ON THE ROAD RIGHT-OF-WAY. CLEAR ACCESS TO ADJACENT PROPERTIES MUST BE MAINTAINED AT ALL TIMES.
 - CONTRACTOR TO PROVIDE LOCATION OF EMERGENCY ACCESS TO THE CITY FOR APPROVAL PRIOR OF CONSTRUCTION. EMERGENCY ENTRANCE TO HAVE CLEAR ACCESS AT ALL TIME FOR EMERGENCY.
 - IF REQUIRED GENERAL CONTRACTOR IS RESPONSIBLE TO SCHEDULE PRE-CONSTRUCTION MEETING WITH THE CITY OF BURLINGTON ENGINEERING SERVICE REPRESENTATIVE AND ARCADIS IBI GROUP PRIOR OF CONSTRUCTION.
 - TRAFFIC PLAN BASED ON ONTARIO TRAFFIC MANUAL (OTM) BOOK 7 IS REQUIRED AND MUST BE APPROVED BY THE CITY OF BURLINGTON. CONTRACTOR TO PROVIDE THE TRAFFIC PLAN TO THE CITY PRIOR OF CONSTRUCTION. COPY OF TRAFFIC PLAN TO BE ON THE SITE AT ALL TIMES.

- EROSION CONTROL NOTES
- NO ALTERNATIVE METHODS OF EROSION CONTROL PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY ARCADIS IBI GROUP AND THE CITY OF BURLINGTON'S ENGINEERING SERVICES.
 - SILT FENCING TO BE PER OPSD 219.110 AND REQUIRED TO BE INSTALLED AROUND FULL CONSTRUCTION AREA.
 - ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MUST BE PUT INTO PLACE AT THE CITY'S REQUEST.
 - STAKE LOCATIONS TO BE MINIMUM 2.00m FROM PROPERTY LINE. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES.
 - CONTRACTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL FEATURES TO PREVENT SEDIMENT FROM LEAVING THE SITE.
 - SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF 1/3 THE HEIGHT OF THE STRUCTURE.
 - CONTRACTOR IS RESPONSIBLE FOR REMOVING SEDIMENTS FROM THE MUNICIPAL ROADWAY AND SIDEWALKS AT THE END OF EACH WORK DAY.
 - ALL EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RE-STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
 - CONTRACTOR TO MONITOR THE SITE DEVELOPMENT TO ENSURE ALL EROSION CONTROLS ARE INSTALLED AND MAINTAINED TO CITY REQUIREMENTS AND ANY DAMAGE REPAIRED IMMEDIATELY.
 - CONTRACTOR TO COMPLY WITH THE ENGINEER'S INSTRUCTIONS TO INSTALL, MODIFY OR MAINTAIN EROSION CONTROL WORKS.
 - MUNICIPAL ROAD RIGHT-OF-WAY TO BE MAINTAINED FREE OF DEBRIS THROUGHOUT CONSTRUCTION. STREET SWEEPING AND DUST CONTROL SHALL BE COMPLETED DAILY, IF APPLICABLE.



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8	ISSUED FOR PERMIT/TENDER	2024-12-09
9	ISSUED FOR TENDER	2025-01-17
#	#	#

KEY PLAN

LEGEND

- X346.00 - PROPOSED GRADE ELEVATION
- - - - - EXISTING ROAD CENTER LINE
- 2.0% - PROPOSED SLOPE
- CB - PROPOSED CATCH BASIN
- AD - PROPOSED AREA DRAIN
- - PROPOSED CLEAN OUT
- MH - PROPOSED STORM MANHOLE
- S-MH - PROPOSED SANITARY MANHOLE
- WV - PROPOSED WATER VALVE
- CB - EXISTING CATCH BASIN
- ST-MH - EXISTING STORM MANHOLE
- OSMH - EXISTING CB MANHOLE
- S-MH - EXISTING STORM FLOW DIRECTION
- S-MH - EXISTING SANITARY MANHOLE
- - EXISTING SANITARY FLOW DIRECTION
- HYD - EXISTING HYDRANT
- WV - EXISTING WATER VALVE
- - EXISTING WATERMAIN
- - - - - ORIGINAL GROUND CONTOUR
- /// - FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT
- - 40mm ASPHALT MILLING AND REPLACEMENT

BENCHMARK INFO
 ELEVATIONS ARE REFERRED TO THE CITY OF BURLINGTON BENCHMARK No. 212, HAVING ON ELEVATION OF 85.626 m.

LOCAL BENCHMARK INFO
 TOP OF FIRE HYDRANT FRONTING THE SITE, HAVING ON ELEVATION OF 86.50 m.

THIS PLAN TO BE READ IN CONJUNCTION WITH THE EXISTING CONDITION AND REMOVAL PLAN AND THE STORM WATER MANAGEMENT BRIEF / REPORT PREPARED BY BJI GROUP.

THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO THEM.

NOTES

- CONTRACTOR IS REQUIRED TO REFER THE APPROVED VEGETATION MANAGEMENT PLAN WITH RESPECT TO THE INFORMATION FOR TREE REMOVAL / TREE PROTECTION.
- CONTRACTOR TO INFORM CITY'S INSPECTOR PRIOR OF ALL SERVICE DISCONNECTIONS. CITY'S INSPECTOR TO BE ON SITE DURING SERVICE DISCONNECTIONS.
- LEAD TEE JOINTS DRAINED, SUPER FLUSHED AND CHLORINATED WITH POSSIBLE MAIN SHUT DOWN.
- EXISTING VEGETATION NOT TO BE REMOVED UNTIL A BUILDING PERMIT HAS BEEN ISSUED OR UNTIL CONTROL MEASURES HAVE BEEN INSTALLED AND ACCEPTED BY CITY LANDSCAPE TECHNOLOGIST.
- ALL MUNICIPAL DRAIN INLETS, ON SITE CB AND MHs (UPON COMPLETION OF SERVING), OR ANY OTHER CB INLETS IN THE AREA OF THE SITE AND ON HAIL ROUTES MUST BE PROTECTED WITH FILTER FABRIC, OR EQUIVALENT BARRIERS MEETING CRITERIA, STANDARDS AND SPECIFICATIONS ACCEPTABLE BY THE ENGINEERING AND CONSTRUCTION DIVISION.
- EROSION AND SEDIMENT CONTROL MUST BE REVIEWED JOINTLY BY THE CONSULTANT, CONTRACTOR, SUPERINTENDENT AND THE CITY STAFF PRIOR TO COMMENCEMENT OF CONSTRUCTION, AND REVISIONS TO THE PLANS RESUBMITTED TO THE ENGINEERING AND CONSTRUCTION DIVISION, AS NECESSARY.
- NO CONSTRUCTION WORK TO BE UNDERTAKEN ON THE SUBJECT PROPERTY WITHOUT FINAL ENGINEERING ACCEPTANCE AND A BUILDING PERMIT ISSUED BY THE CITY.
- ALL WORK TO BE DONE IN ACCORDANCE WITH STANDARDS AND SPECIFICATION OF THE CITY OF BURLINGTON AND OPS EXCEPT WHERE ARE MORE STRINGENT.
- NEW CURBS AND SOD TO BE REINSTATED AS REQUIRED, ANY AREAS IN RIGHT OF WAY DISTURBED THROUGH CONSTRUCTION TO BE REPLACED AT THE DEVELOPERS COST.
- ALL SERVICE CONNECTIONS TO THE PROPERTY LINE MUST BE INSTALLED TO THE CITY'S SATISFACTION PRIOR TO ANY INTERNAL SERVING WORKS AS PER CITY BY-LAW.
- CITY OF BURLINGTON ENGINEERING SERVICES DEPARTMENT MUST BE NOTIFIED OF ANY SIGNIFICANT CHANGES TO THE APPROVED DESIGN THAT MAY OCCUR DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL AFFECTED PROPERTY TO ORIGINAL CONDITION, AT THE OWNER'S EXPENSE.
- THE ENGINEERING ACCEPTANCE OF THIS PLAN DOES NOT EXEMPT THE OWNER'S BONDED CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS AND ADDITIONAL APPROVALS REQUIRED TO COMPLETE CONSTRUCTION PROJECT.
- WATER SYSTEMS 100mm Ø AND LARGER TO BE ISOLATED FROM THE MUNICIPAL WATER SUPPLY WITH THE CERTIFIED BACKFLOW PREVENTION DEVICE DURING CONSTRUCTION.
- WATER SERVICE TESTING AND COMMISSIONING TO COMPLY WITH CITY OF BURLINGTON STANDARDS.
- #8 GAUGE TWU SOLID COPPER PLASTIC COATED TRACER WIRE TO BE ATTACHED TO EVERY NON-METALIC SERVICE TO INSIDE THE BUILDING AND ON FIRE SERVICE LEAD TO ENABLE THE PIPE TO BE LOCATED.

ARCADIS
 Arcadis Professional Services (Canada) Inc.
 Suite 101 - 410 Albert Street Waterloo ON N2L 3V3
 Canada, tel 519 585 2255 arcadis.com

PROJECT
ÉCOLE ÉLÉMENTAIRE RENAISSANCE - CHILD CARE BUILDING ADDITION
 1226 Lockhart Rd, Burlington

PROJECT NO: 139391	SCALE: 1:300
DRAWN BY: E. CERIC	CHECKED BY: M. SHOOSHITARY
PROJECT MGR: E. CERIC	APPROVED BY: M. SHOOSHITARY

SHEET TITLE
SITE GRADING AND SERVICING PLAN

SHEET NUMBER 2	ISSUE 9
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ASPHALT AND CONCRETE RESTORATION NOTES:

- ASPHALT RESTORATION LIMITS ON THE ROAD RIGHT-OF-WAY DUE TO CONNECTION OF MUNICIPAL SERVICES TO BE ENTIRE ROAD WORK AREA TO CONSIST OF ONE PATCH, WHERE ROAD CUT IS REQUIRED, THE CONTRACTOR TO CUT FROM CURB TO CURB AND REMOVE ASPHALT.
- PRIOR TO PLACEMENT OF SURFACE ASPHALT ON THE ROAD CUT FOR CONNECTION OF SERVICES, TACK COATING OF JOINTS AND BASE ASPHALT IS REQUIRED.
- MINIMUM DEPTHS OF ASPHALT AND GRAVEL ON THE ROAD: 40mm HL3 SURFACE ASPHALT, 60mm HL4 BASE ASPHALT, 150mm GRANULAR "A" ROAD BASE AND 400mm GRANULAR "B" ROAD SUB BASE.
- MINIMUM DEPTHS FOR ASPHALT DRIVEWAY RAMP: 30mm HL3 SURFACE ASPHALT, 40mm HL4 BASE ASPHALT AND 250mm GRANULAR "A" BASE.
- CONTRACTOR TO REMOVE AND REPLACE ALL DAMAGED SIDEWALKS DUE TO CONSTRUCTION ACTIVITY RELATED TO THE PROJECT IN ACCORDANCE WITH OPSS 310.010, 301.020 301.030.
- CONTRACTOR TO REPLACE ALL DAMAGED CURB AND GUTTER RELATED TO THE PROJECT.
- NO RECYCLED ASPHALT IS ACCEPTABLE IN HL3, VIRGIN HL3 IS REQUIRED.

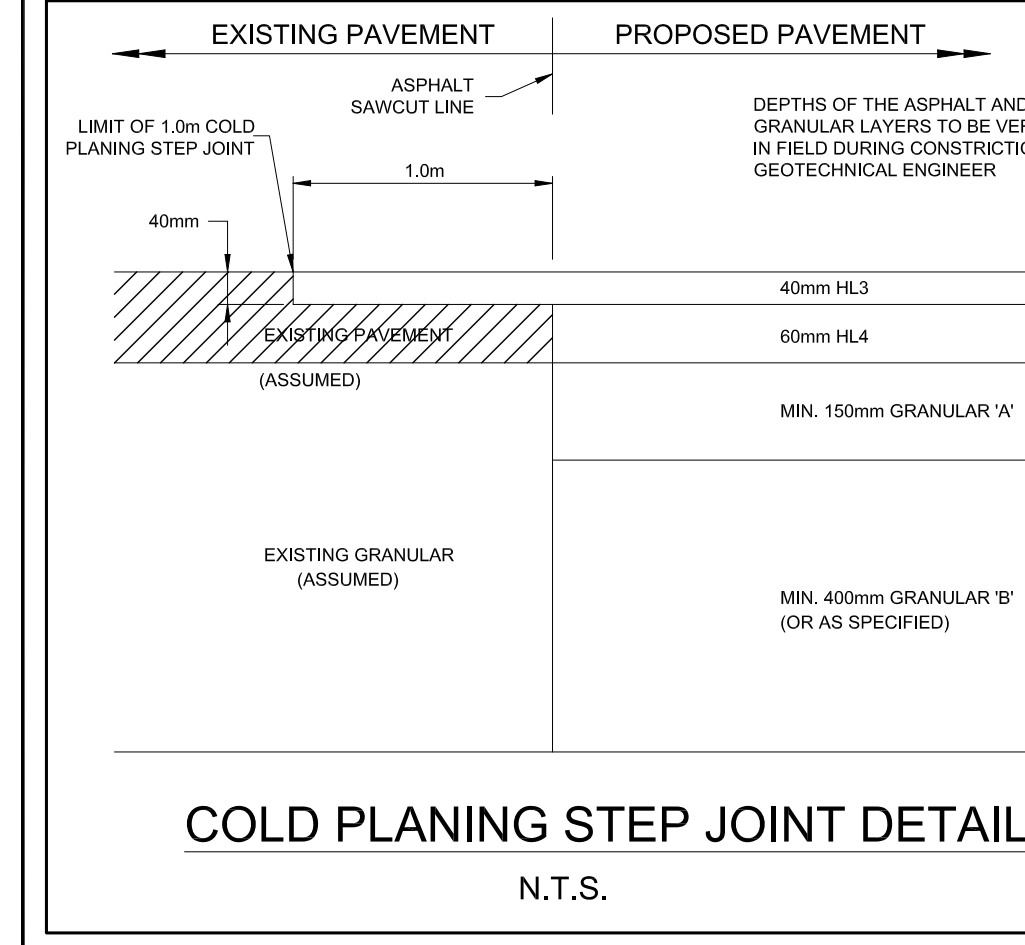
BOULEVARD RESTORATION NOTES:

- CONTRACTOR TO RESTORE DISTURBED BOULEVARD AREA BETWEEN EDGE OF PAVEMENT AND PROPERTY LINE WITH MINIMUM 150mm TOPSOIL AND SOD

MIN. 0.5m VERTICAL SEPARATION IS REQUIRED BETWEEN EX. STORM AND SANITARY SEWERS AND PROPOSED 150 / 200 mm Ø WATER SERVICE. DEFLECTION OF PROPOSED WATER SERVICE WILL BE REQUIRED IF SEPARATION IS LESS THAN 0.5m. ANY DISCREPANCIES TO BE NOTIFIED TO THE ENGINEER PRIOR OF CONSTRUCTION

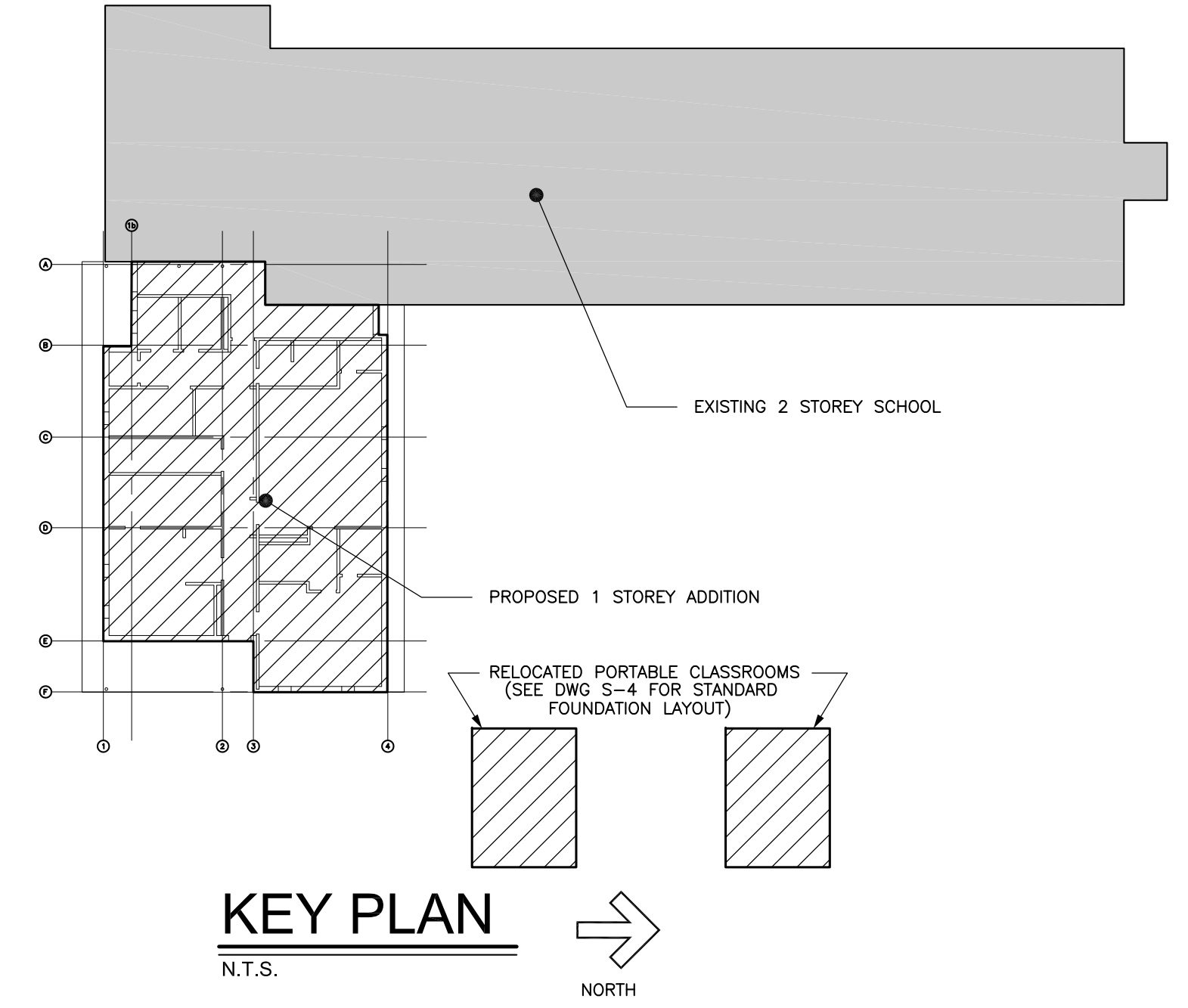
NOTE:
 PRIOR TO COMMENCING WORK, ALL EXISTING UNDERGROUND UTILITIES SHALL BE LOCATED, MARKED AND PROTECTED. DEPTH OF EXISTING SERVICES SHOULD BE VERIFIED AND NOTIFY DESIGN ENGINEER OF DISCREPANCIES

CONTRACTOR TO CONFIRM LOCATION, SIZE AND DEPTH OF EX. WATERMAIN ON RIGHT-OF-WAY PRIOR OF CONSTRUCTION. MIN. 0.5m VERTICAL SEPARATION IS REQUIRED BETWEEN PROPOSED WATER SERVICE AND EXISTING STORM ROOF DRAIN. ANY DISCREPANCIES TO BE NOTIFIED TO THE ENGINEER PRIOR OF CONSTRUCTION



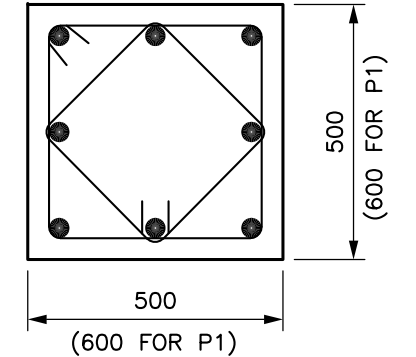
FOUNDATION NOTES

- TOP OF CONC. SLAB-ON-GRADE ELEVATION AT 0.0M (86.84M GEODETIC) UNLESS NOTED OTHERWISE ON PLAN.
- SOIL INFORMATION TAKEN FROM GEOTECHNICAL INVESTIGATION PERFORMED BY PINCHIN, REF. NO. 313698, DATED DECEMBER 15, 2022. APPROXIMATE BOREHOLE LOCATIONS INDICATED ON THIS DRAWING.
- ALL FOOTINGS TO BE FOUNDED ON UNDISTURBED NATIVE SANDY SILL TILL WITH AN UNFACTORED BEARING RESISTANCE (SLS) OF 150KPA. IN THE EVENT OF POORER BEARING CAPACITIES AT THESE ELEVATIONS, THE CONTRACTOR SHALL NOTIFY THE CONSULTANTS BEFORE PROCEEDING WITH CONSTRUCTION.
- UNLESS OTHERWISE NOTED, ALL CONCRETE SLAB-ON-GRADE TO BE 125 THICK WITH 152 X 152 X MW18.7 X MW18.7 WMM MID. FOR SLAB-ON-GRADE CONSTRUCTION REMOVE ANY TOPSOIL AND FILL, BUILD UP SLAB SUB-GRADE TO UNDERSIDE OF GRANULAR 'A' LAYER WITH IMPORTED GRANULAR 'B' MATERIAL APPROVED BY GEOTECHNICAL CONSULTANT PLACED IN MAX. 200MM LIFTS AND COMPACTED TO 100% PROCTOR DENSITY. PROVIDE 300MM OF GRANULAR 'A' COMPACTED TO 100% SPMD AS A MOISTURE BARRIER IN ADDITION TO ARCHITECT SPECIFIED VAPOUR BARRIER. SEE GEOTECHNICAL INVESTIGATION FOR DEPTHS OF APPROVED GRANULAR FILL REQUIRED AT SELECTED BOREHOLE LOCATIONS.
- ALL FOOTINGS SHALL BE CENTERED UNDER WALLS, UNLESS NOTED.
- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, WALL THICKNESSES, FLOOR SLOPES AND FLOOR FINISHES.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL BURIED SERVICES, PITS, INSERTS, SLEEVES, ETC.
- ALL SAW CUTS (S.C.) SHALL BE 38 MM DEEP WHERE SHOWN ON THE PLAN AND CAULKED AS PER ARCHITECTURAL SPECIFICATIONS.
- BACKFILL AGAINST FOUNDATION WALLS SHALL BE PLACED SUCH THAT THE LEVEL OF BACKFILL ON THE ONE SIDE OF THE WALL IS NEVER MORE THAN 300MM ABOVE THE LEVEL ON THE OTHER SIDE OF THE WALL.
- SEE STRUCTURAL NOTES AND SCHEDULES ON DRAWING S-5.
- SEE FOOTING SCHEDULE, THIS DRAWING, FOR ALL WALL FOOTING CONSTRUCTION NOTED, WF1 AND WF2.
- MINIMUM DEPTH OF ALL FOOTINGS SUBJECT TO FROST ACTION SHALL BE -1200MM BELOW FINISHED GRADE, TO TOP OF FOOTING. NOTIFY CONSULTANTS WHEN THIS IS NOT ATTAINABLE.
- SEE ARCHITECTURAL DRAWINGS FOR ANY SLAB RECESSES REQUIRED FOR FLOOR FINISHES AND ADJUST TOP OF CONCRETE SLAB ELEVATION TO SUIT.
- ALL FOOTING ELEVATIONS PROVIDED ON PLAN TAKEN FROM DATUM ELEV. OF 0.0M.
- PROVIDE MINIMUM 15M DOWELS AT 600 C/C SPACING IN ALL CONCRETE FOOTINGS OR MATCH SPECIFIED WALL REINFORCEMENT. EXTEND DOWELS 15 BAR DIAMETERS INTO FOOTINGS AND 40 BAR DIAMETERS INTO WALL. PROVIDE HOOK IN FOOTINGS.
- ALL REINFORCED CONCRETE BLOCK WALLS TO BE A MINIMUM OF 190MM THICK, U.N.O.
- FOR ANY NEW OR EXISTING SERVICES PASSING THROUGH OR UNDER NEW FOUNDATIONS, MAKE PROVISIONS AS FOLLOWS:
 - THROUGH FOUNDATION WALL: PROVIDE PIPE SLEEVE AND 50 COMPRESSIBLE INSULATION AROUND PIPE (FOR EXISTING ONLY) PRIOR TO POURING.
 - UNDER FOOTING: PROVIDE 10MPA LEAN CONCRETE FILL TO DEPTH OF PIPE(S) UNDER FOOTING, MINIMUM FULL WIDTH OF FOOTING. LEAN CONCRETE FILL TO BEAR ON NATIVE SOIL CAPABLE OF A SLS BEARING CAPACITY OF 150KPA. PROVIDE 50 COMPRESSIBLE INSULATION AROUND PIPE (FOR EXISTING ONLY).
- ALL SERVICES TO BE COORDINATED WITH MECHANICAL AND ELECTRICAL DRAWINGS, AND COORDINATED WITH STRUCTURAL ENGINEER PRIOR TO POURING.
- ALL COLUMN BASE PLATES ARE TO BE RECESSED 200MM FROM TOP OF SLAB.



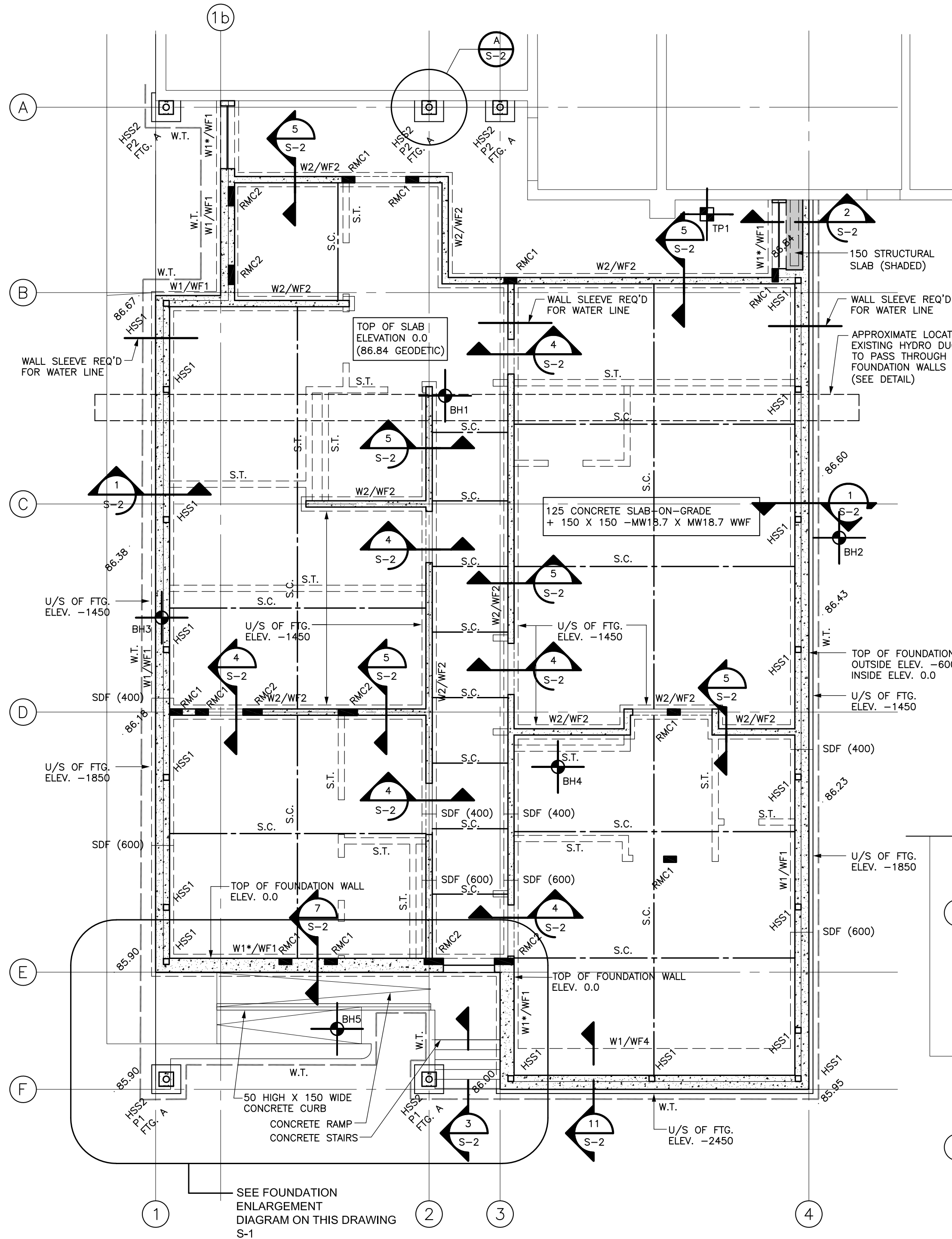
CONCRETE PIER/ COLUMN SCHEDULE				
MARK	SIZE	VERT. REINF.	TIES	REMARKS
P1	600 X 600	8-25M VERT.	2-10M @ 300 C/C	
P2	450 X 450	8-25M VERT.	2-10M @ 300 C/C	

NOTES:
 1 SEE STRUCTURAL NOTES, DRAWING S-5.
 2 SEE PLANS THIS DRAWING, FOR ALL PIER LOCATIONS.
 3 WHERE PIER AND FOUNDATION WALL ARE COINCIDENT, CONSTRUCT WALL, PIER AND ASSOCIATED FOOTINGS INTEGRAL WITH EACH OTHER.

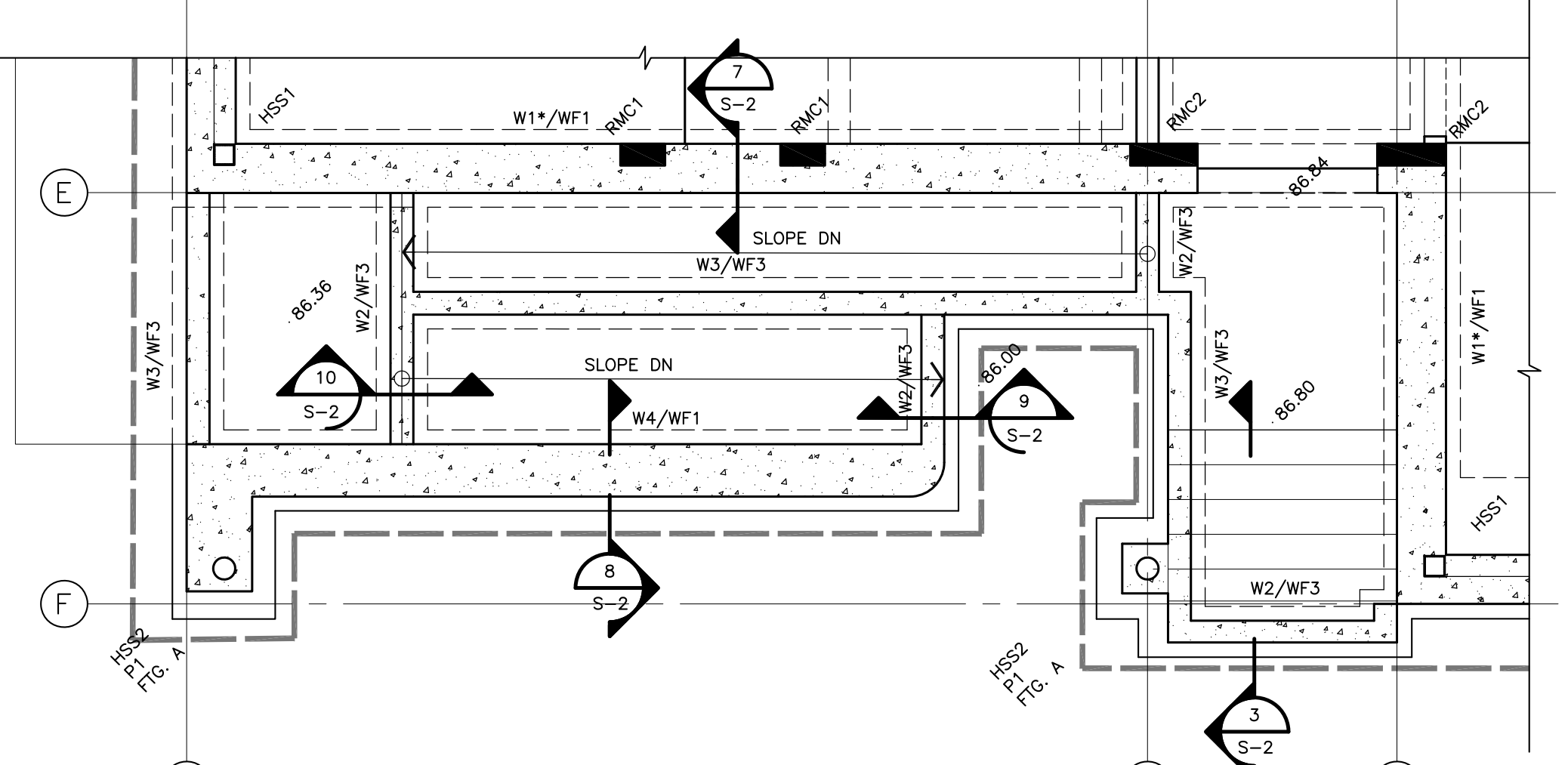


CONCRETE WALL SCHEDULE				
MARK	THICKNESS	VERT. REINFORCING	HORIZ. REINFORCING	REMARKS
W1/W1*	410	15M @ 300 C/C, EA. FACE	15M @ 300 C/C, EA. FACE	
W2	190	15M @ 300 C/C, MID	15M @ 300 C/C, MID	
W3	240	15M @ 300 C/C, EA. FACE	15M @ 300 C/C, EA. FACE	
W4	560	15M @ 300 C/C, EA. FACE	15M @ 300 C/C, EA. FACE	

NOTES:
 1 SEE STRUCTURAL NOTES, DWG. S-5.
 2 SEE PLANS, FOR LOCATION OF ALL CONCRETE WALL TYPES.
 3 PROVIDE FOOTING DOWELS TO MATCH VERT. WALL REINF. @ 600 C/C, U/N. EXCEPT FOR FOOTING WF4 DOWELS TO MATCH EACH VERTICAL REBAR, SEE SECTION 11 ON S-2.
 4 WHERE "W1*" IS SHOWN THE WALL IS SOLID CONCRETE TO TOP OF WALL. THESE WALLS HAVE NO BLOCK LEDGE.



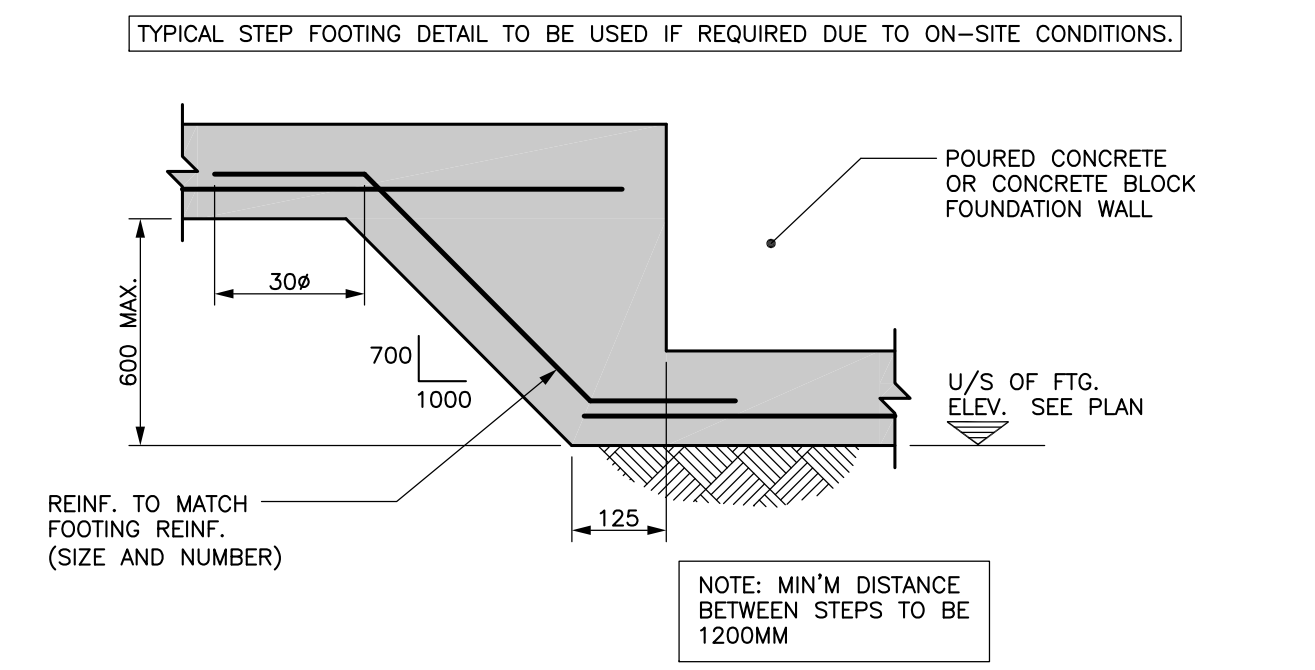
FOUNDATION PLAN
SCALE = 1:100



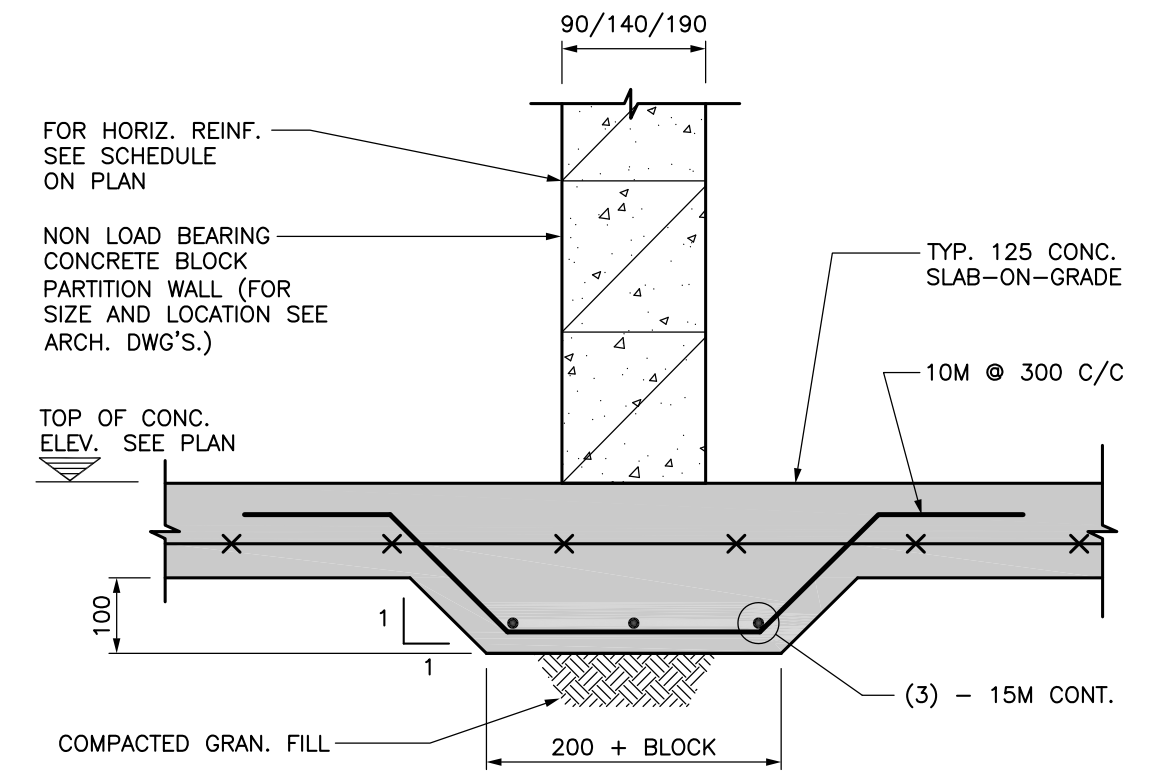
RAMP FOUNDATION PLAN
SCALE = 1:50
NOTE: ALL RAMP FOUNDATIONS AT -2450 FOR UNDERSIDE OF FOOTING.

WALL AND PIER FOOTING SCHEDULE			
MARK	DIMENSIONS	FOOTING REINFORCEMENT	REMARKS
WF1	710 W X 250 T	3-15M, CONT. BTM. LONG., 10M @ 1200 C/C TRANS., BUL	
WF2	500 W X 250 T	3-15M, CONT. BTM. LONG., 10M @ 1200 C/C TRANS., BUL	
WF3	400 W X 250 T	2-15M, CONT. BTM. LONG., 10M @ 1200 C/C TRANS., BUL	TYP. AT RAMP WALLS
WF4	1500 W X 300 T	15M @ 300 C/C TOP, 15M @ 300 C/C TRANS. TLL	SECTION 11 ON S-2
FTG. A	900 X 900 X 250 T	3-15M BTM. EA. WAY	TYP. @ MASONRY PILASTER

NOTES:
 1 SEE STRUCTURAL NOTES, DRAWING S-5.
 2 SEE PLAN, THIS DRAWING, FOR UNDERSIDE OF FOOTING ELEVATIONS.
 3 SEE TYPICAL WALL FOOTING DETAILS, DRAWING S-2.
 4 UNLESS OTHERWISE NOTED, PROVIDE WF1 UNDER ALL WALLS.
 5 FTG. A AGAINST EXISTING SCHOOL BUILDING WALL HAVE FOOTING THICKNESS INCREASED BY 200MM SO THAT IT CAN BE PLACED OVER EXISTING FOOTING, SEE DETAIL 6 ON S-2.



TYP. STEP DOWN FOOTING DETAIL
SCALE: 1:10



TYP. SLAB THICKENING (S.T.) DETAIL
SCALE: 1:10

- DRAWING LEGEND**
- RMC → REINFORCED MASONRY COLUMN. SEE SCHEDULE, DWG. S-5.
 - SDF → STEP DOWN FOOTING. SEE DETAIL DWG. S-2.
 - S.C. → SAW CUT, 25MM DEEP
 - C.J. → CONSTRUCTION JOINT IN SLAB. SEE DETAIL DWG. S-2.
 - CONC. BLK. FOUNDATION WALL
 - S.T. → TYPICAL SLAB THICKENING. SEE DRAWING S-2
 - W.T. → WEeping TILE. SEE MECHANICAL & ARCHITECTURAL DRAWINGS AND COORDINATE
 - WF2 → CONCRETE FOOTING. SEE SCHEDULE THIS DRAWING.
 - HP → CONCRETE HOUSE KEEPING PAD 100 THICK (SEE MECHANICAL FOR PAD SIZE)
 - BH5 → APPROX. BORE HOLE LOCATION AND DEPTH TO BEARING LEVEL. TAKEN FROM GEOTECHNICAL REPORT
 - (-2050) → UNDERSIDE OF FOOTING ELEVATION FROM 0.0 DATUM (DATUM TAKEN @ 179.45)
 - HSS1 → HSS152 X 152 X 6.4 COL.
 - HSS2 → HSS178 X 6.4 COL.
 - SSL → SLAB SUPPORT L100 X 100 X 8 WITH 12# ADHESIVE ANCHORS @ 400 C/C, U/N.

DATE	REVISIONS
01/14/2025	ISSUED FOR TENDER
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CSV Renaissance Child Care Addition

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FOUNDATION PLAN, KEY PLAN, NOTES AND DETAILS

TRUE NORTH DWG. NORTH

22033 JOB NO.

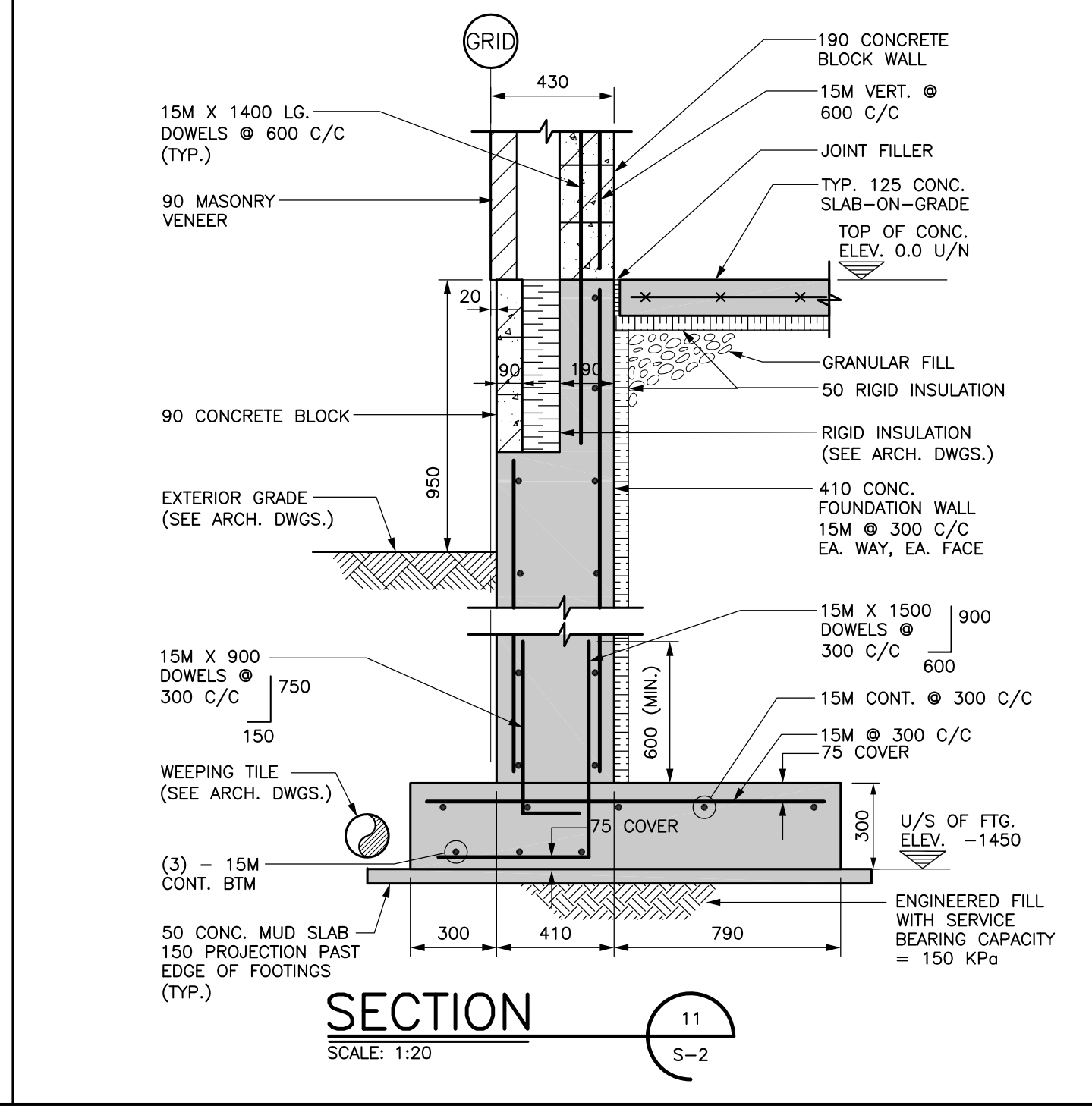
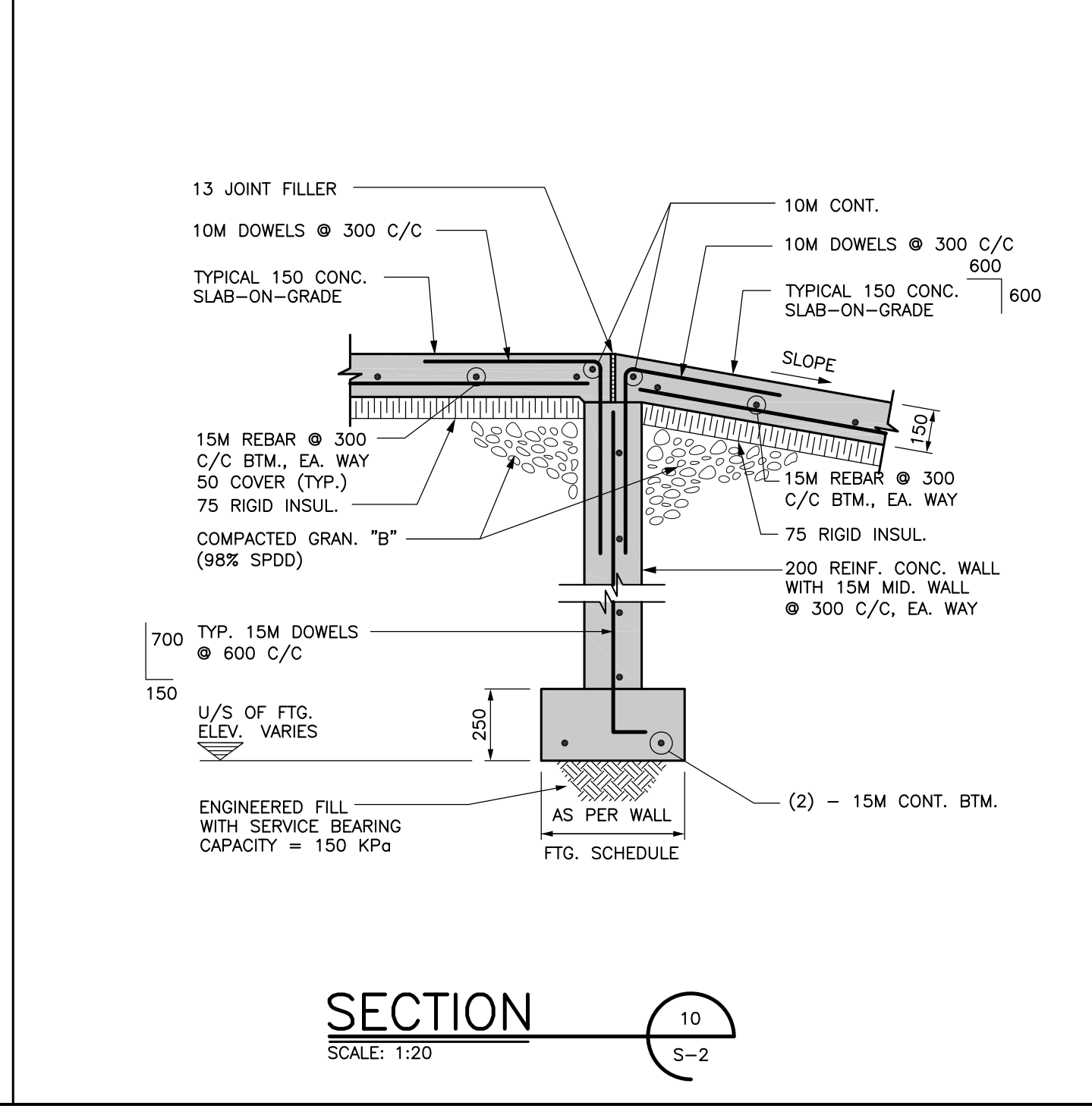
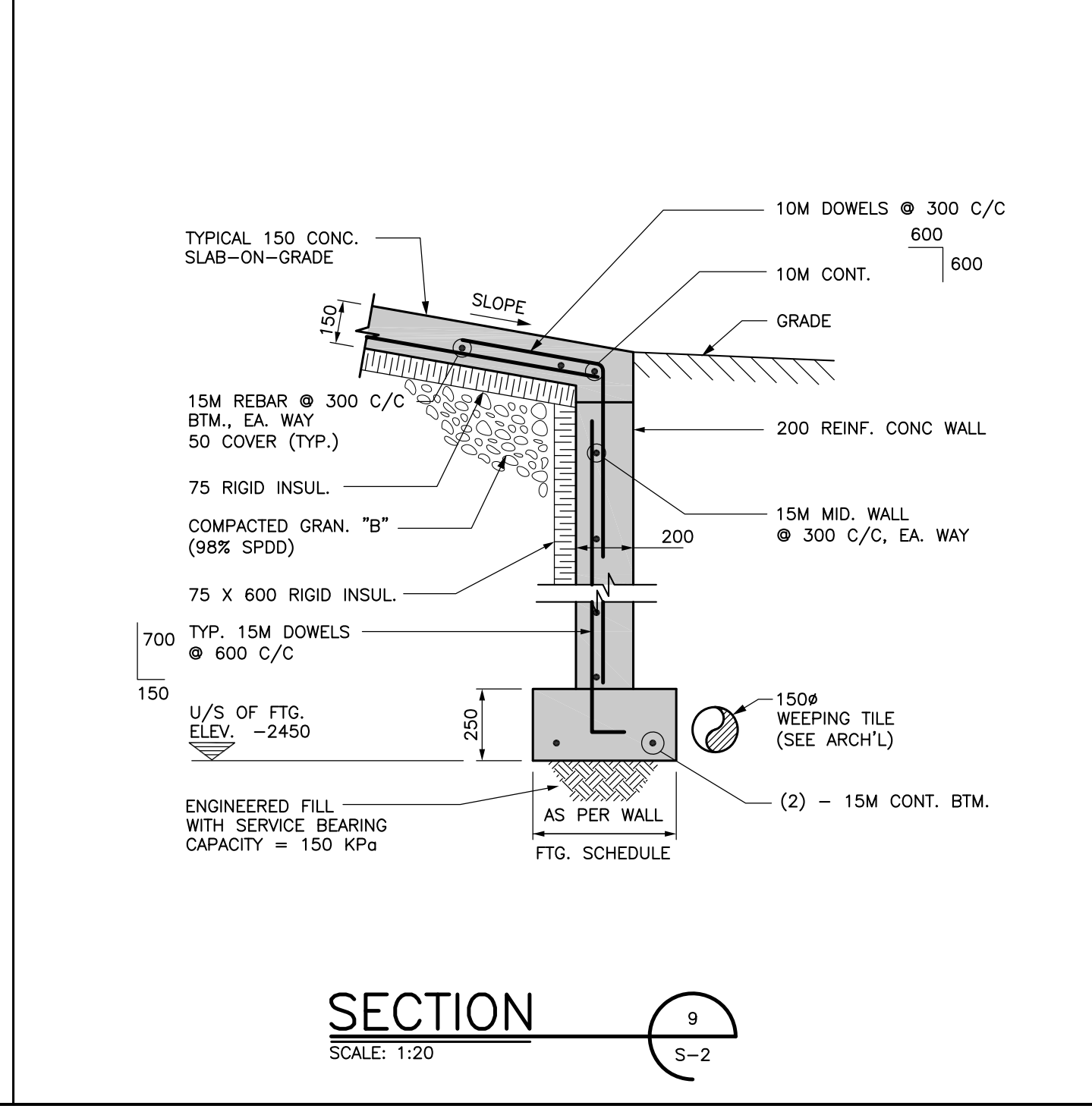
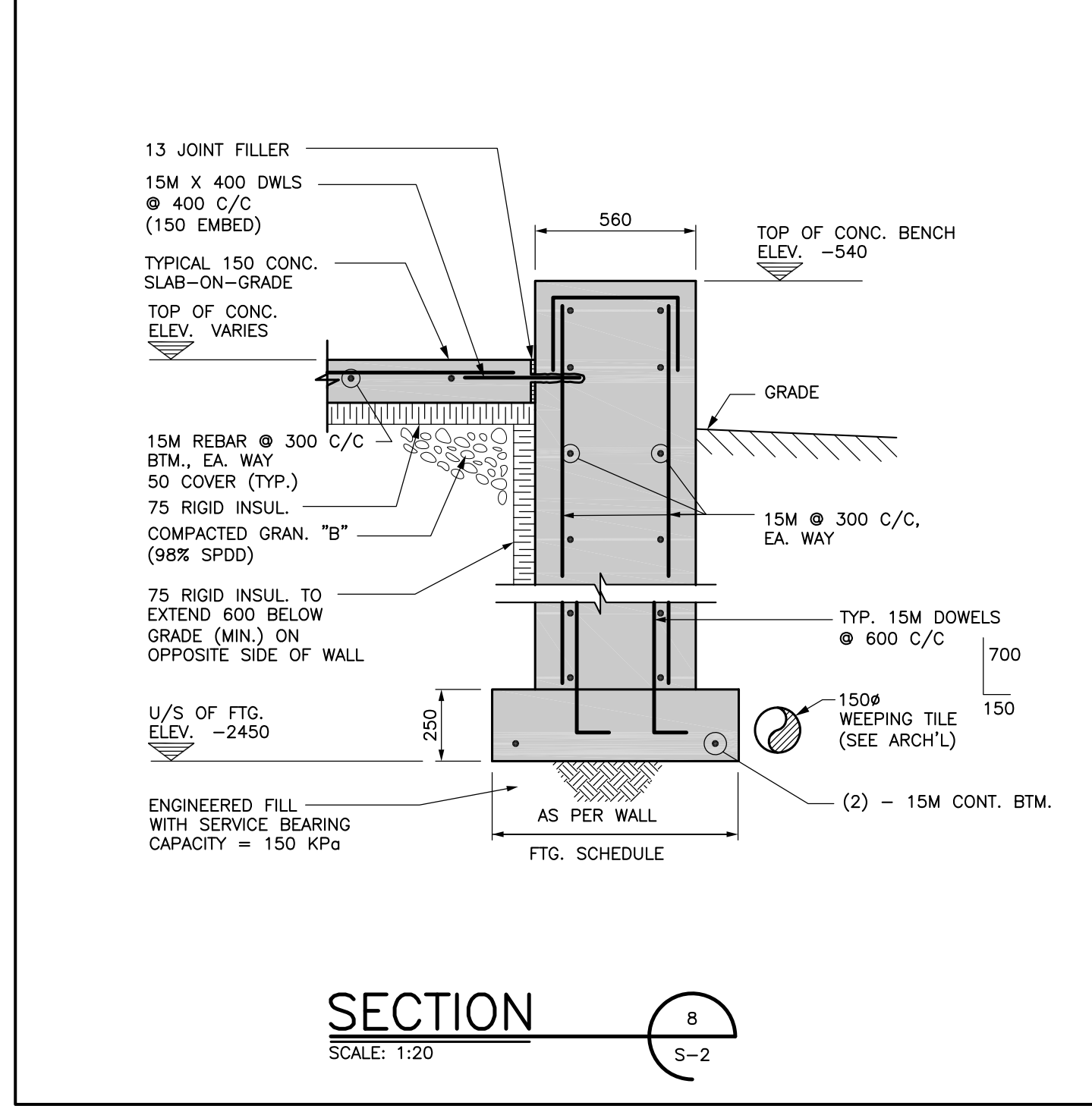
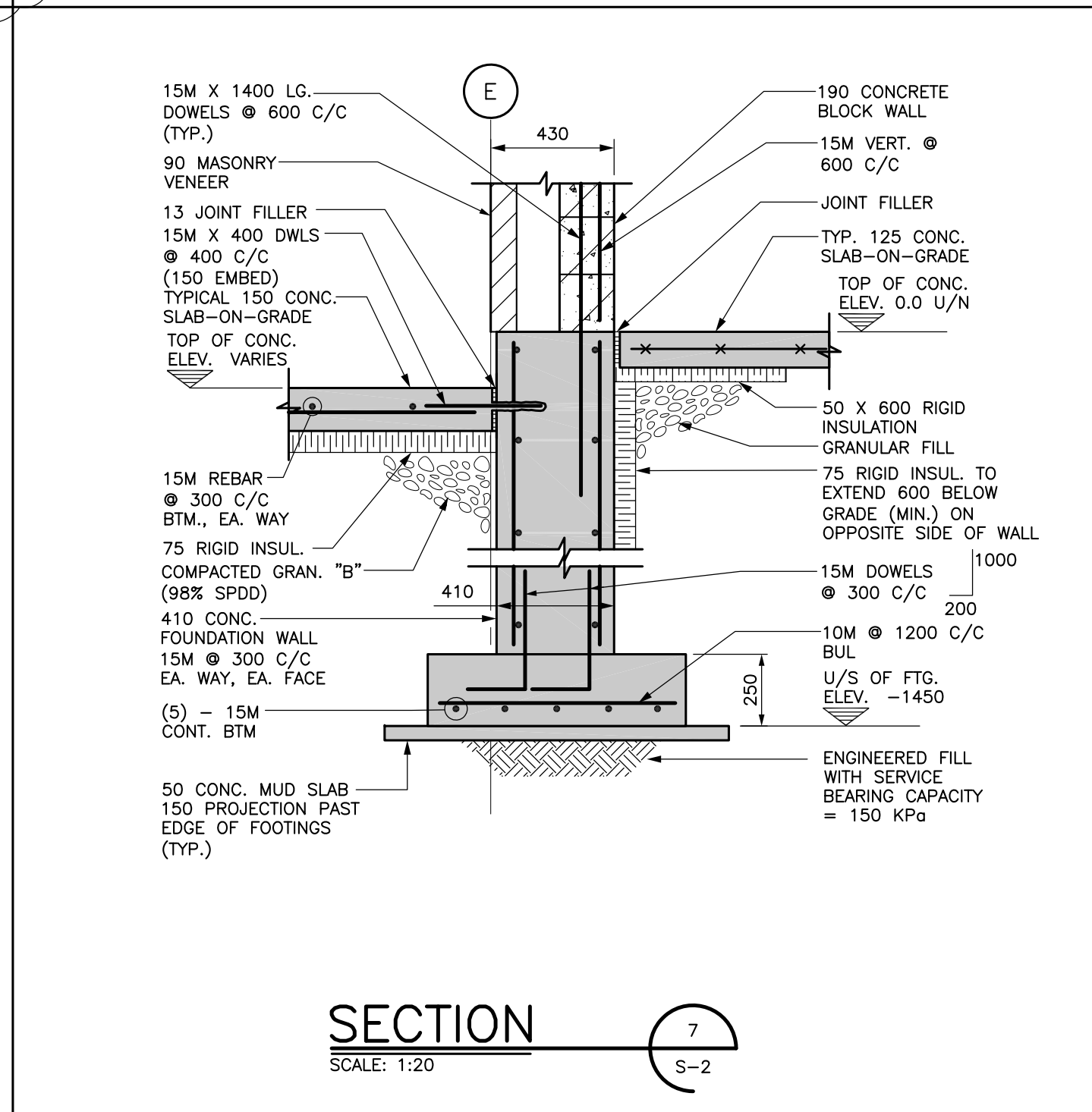
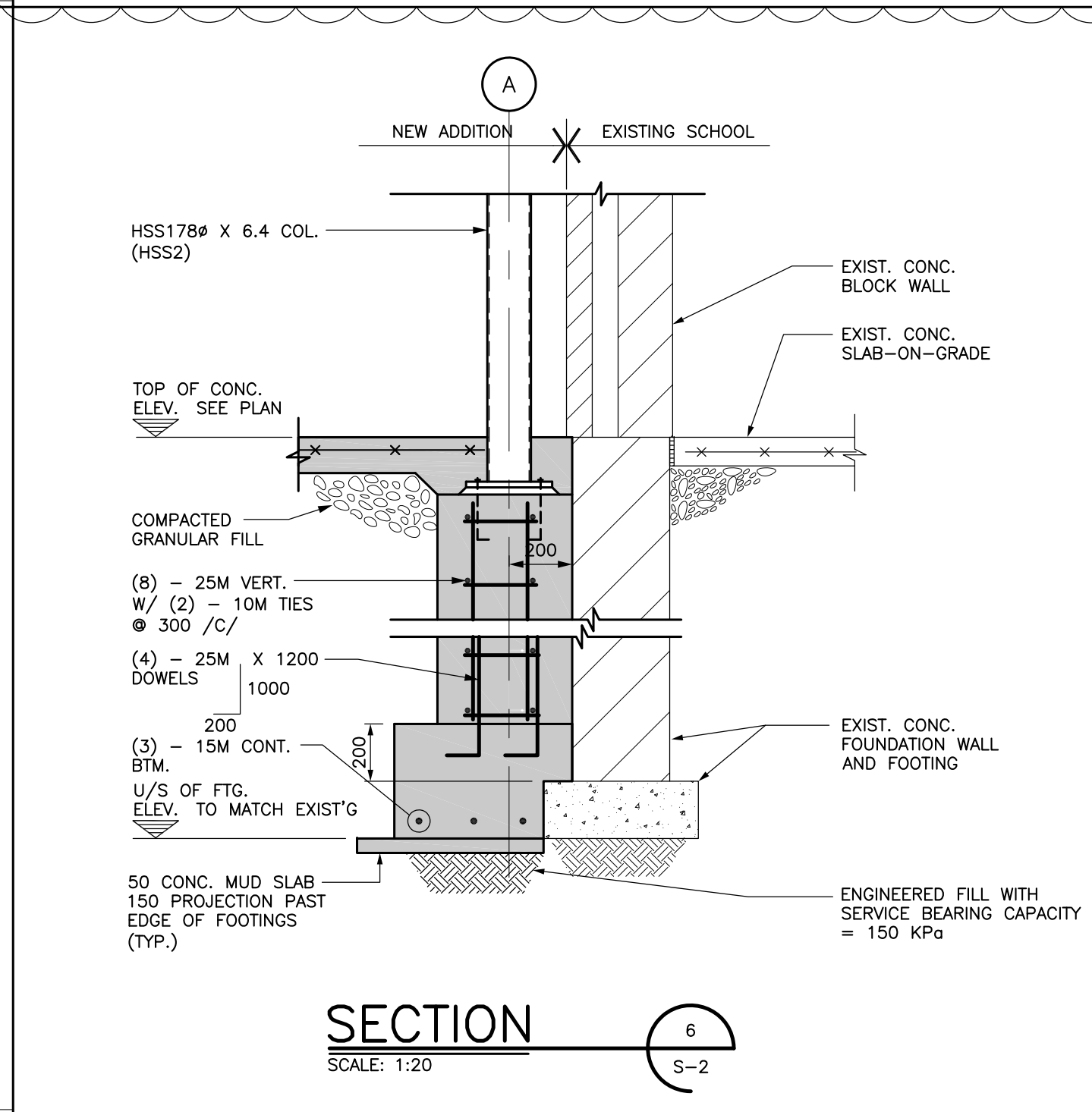
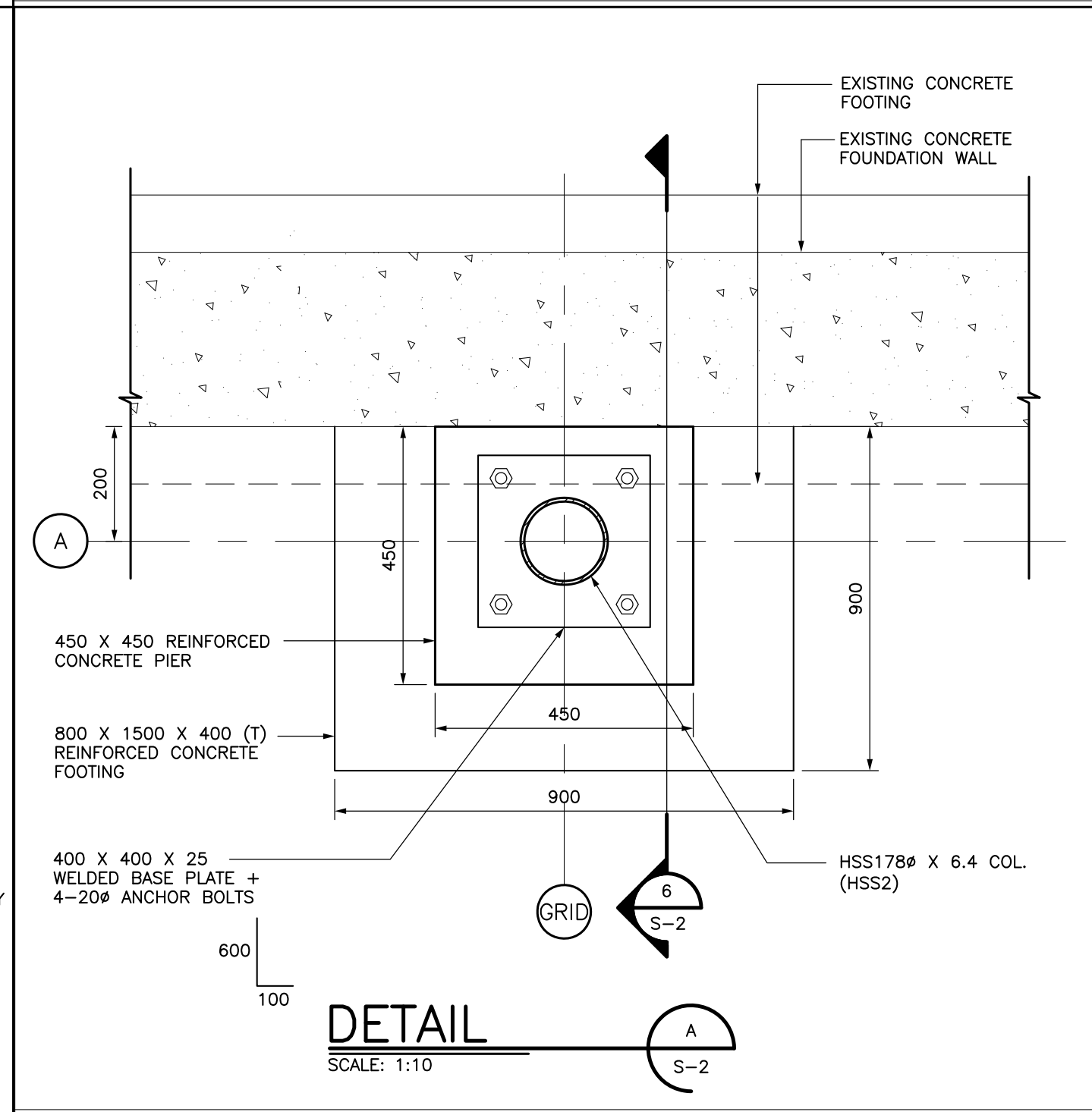
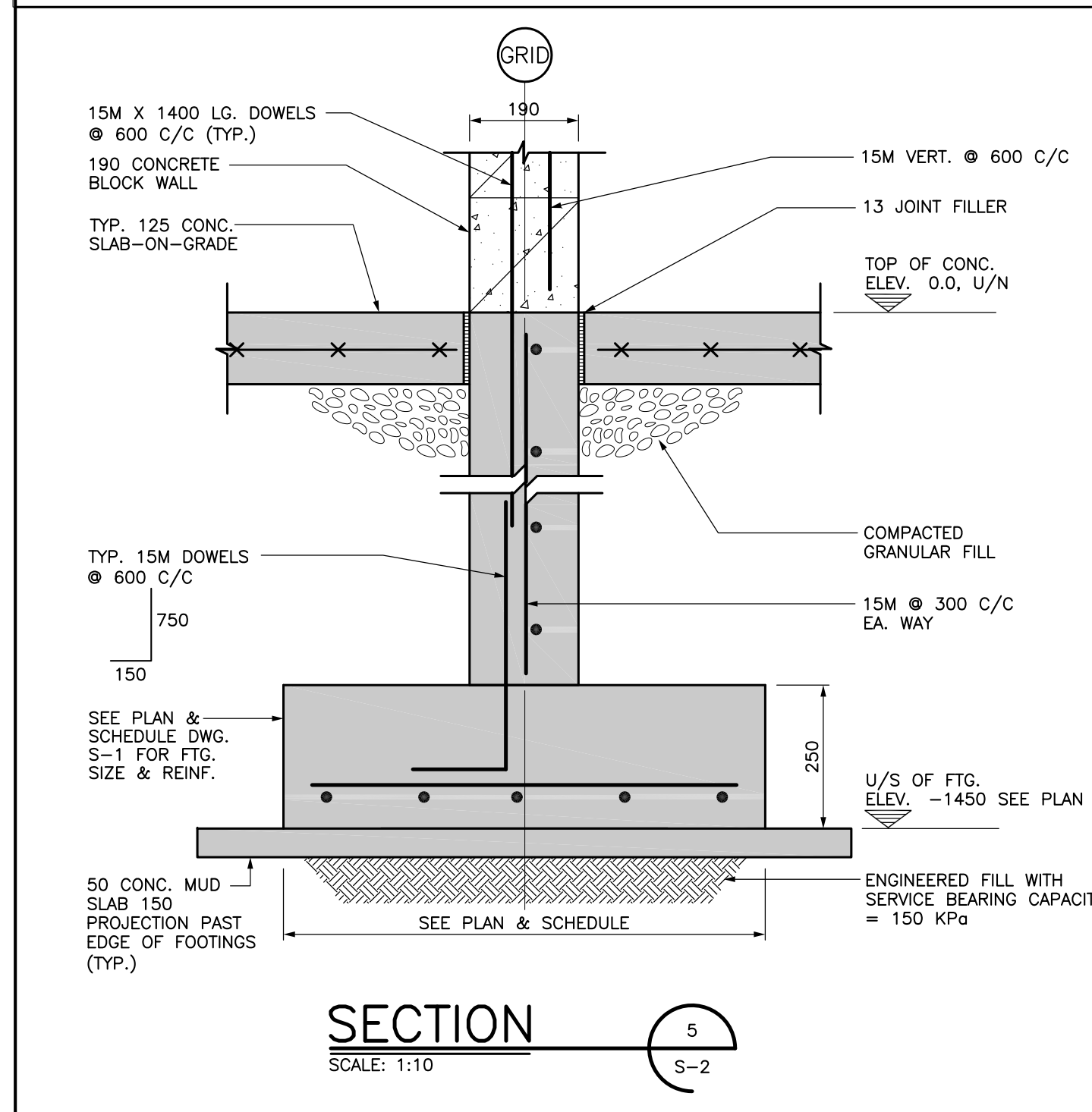
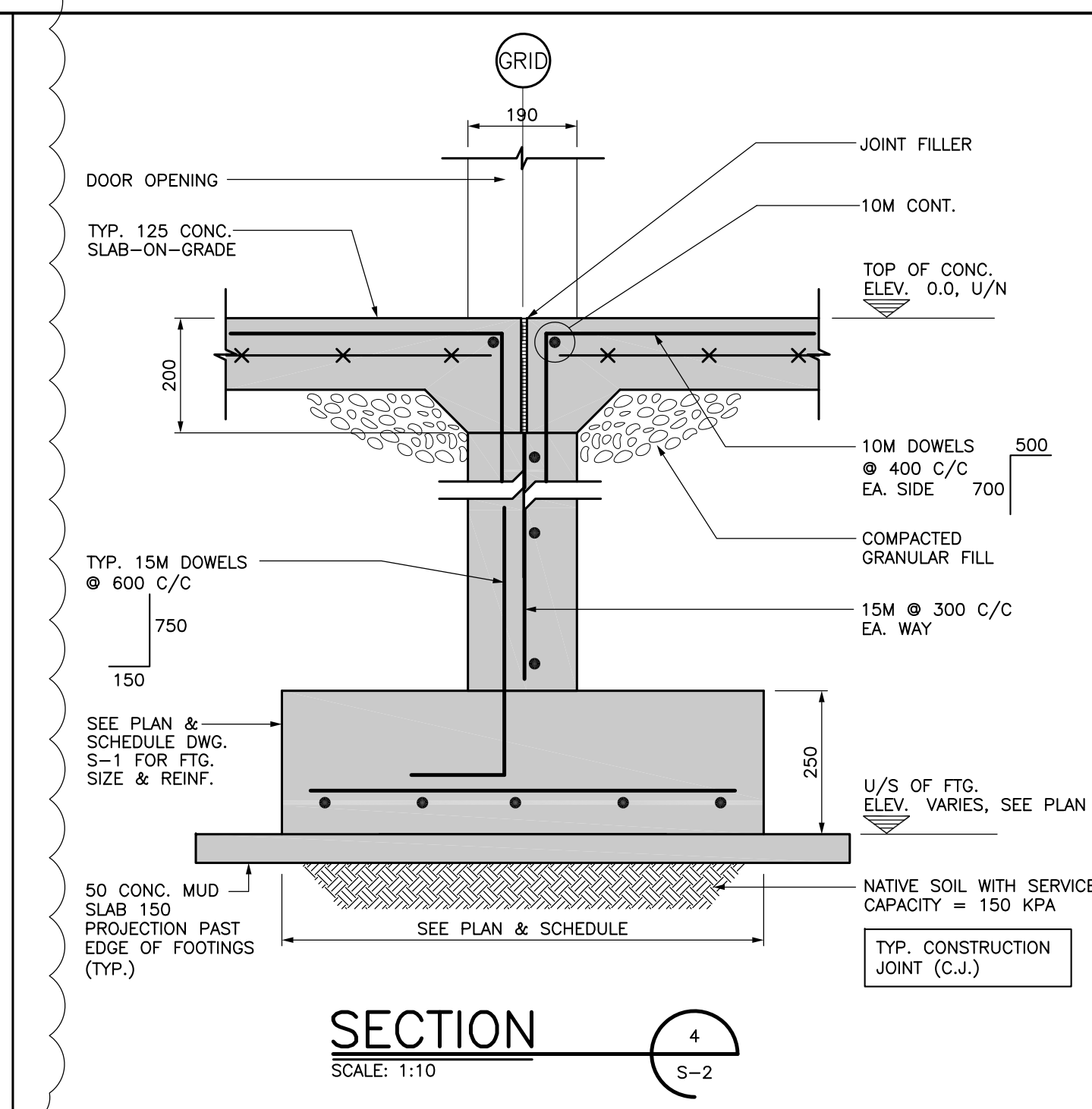
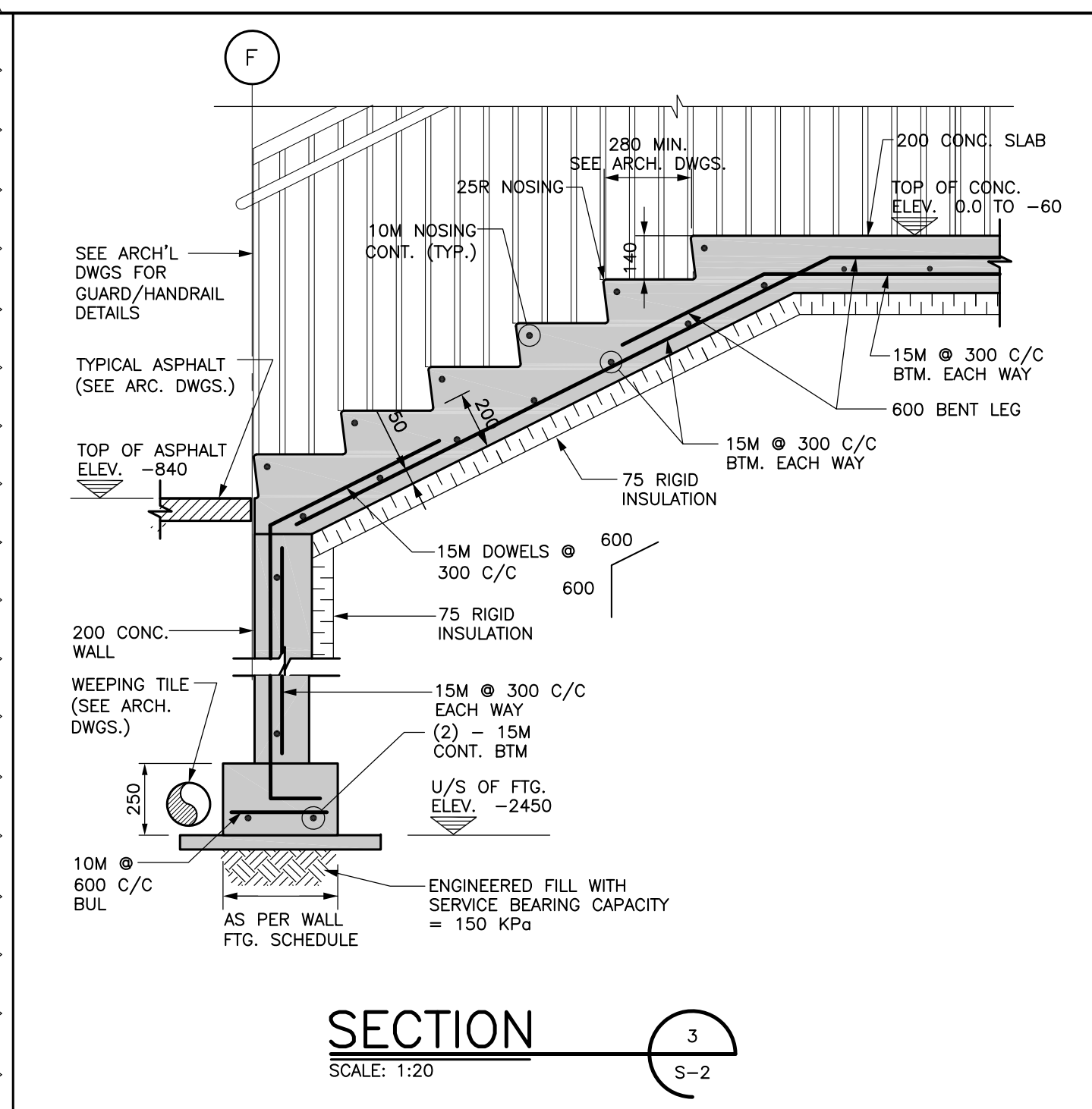
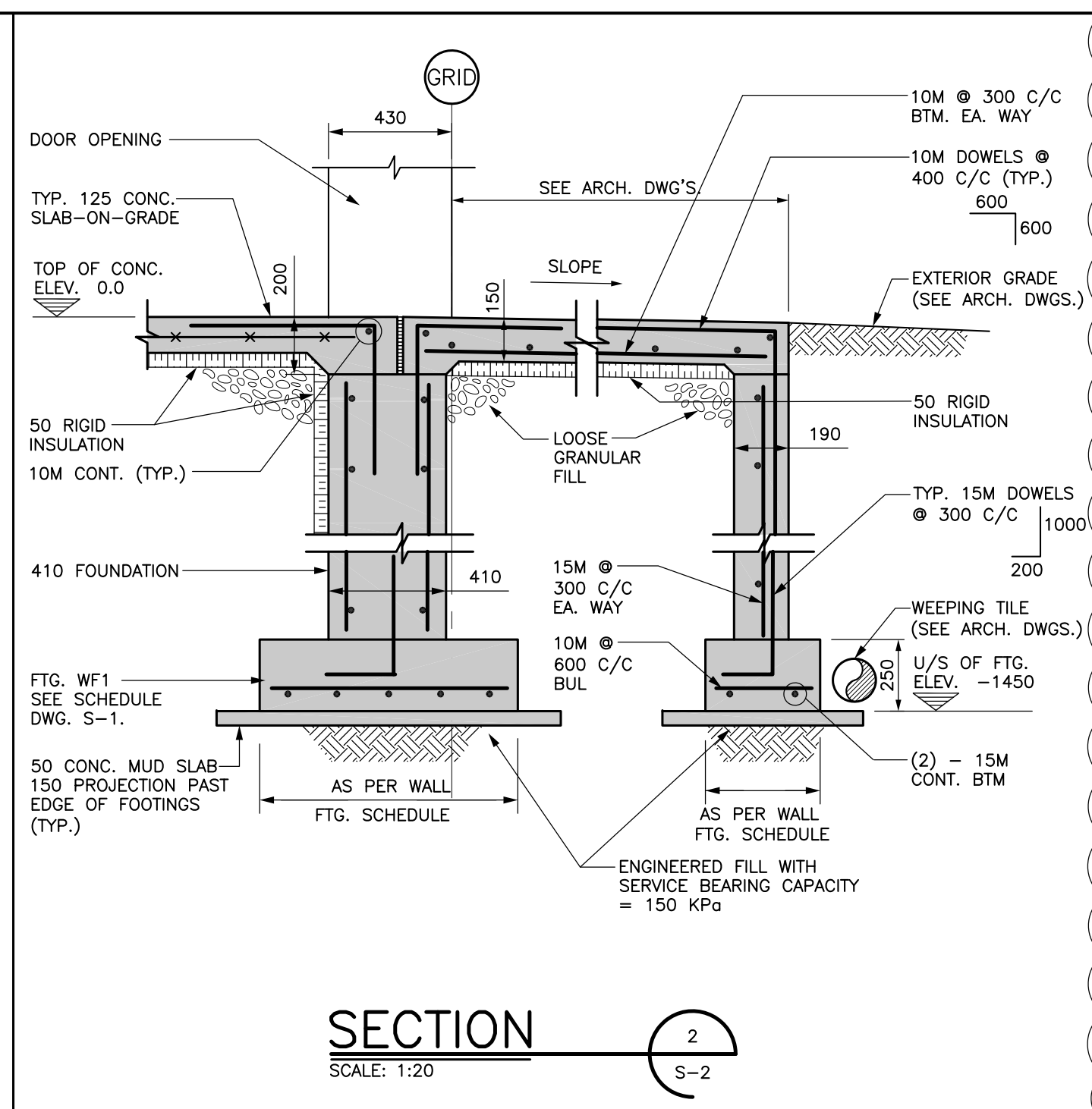
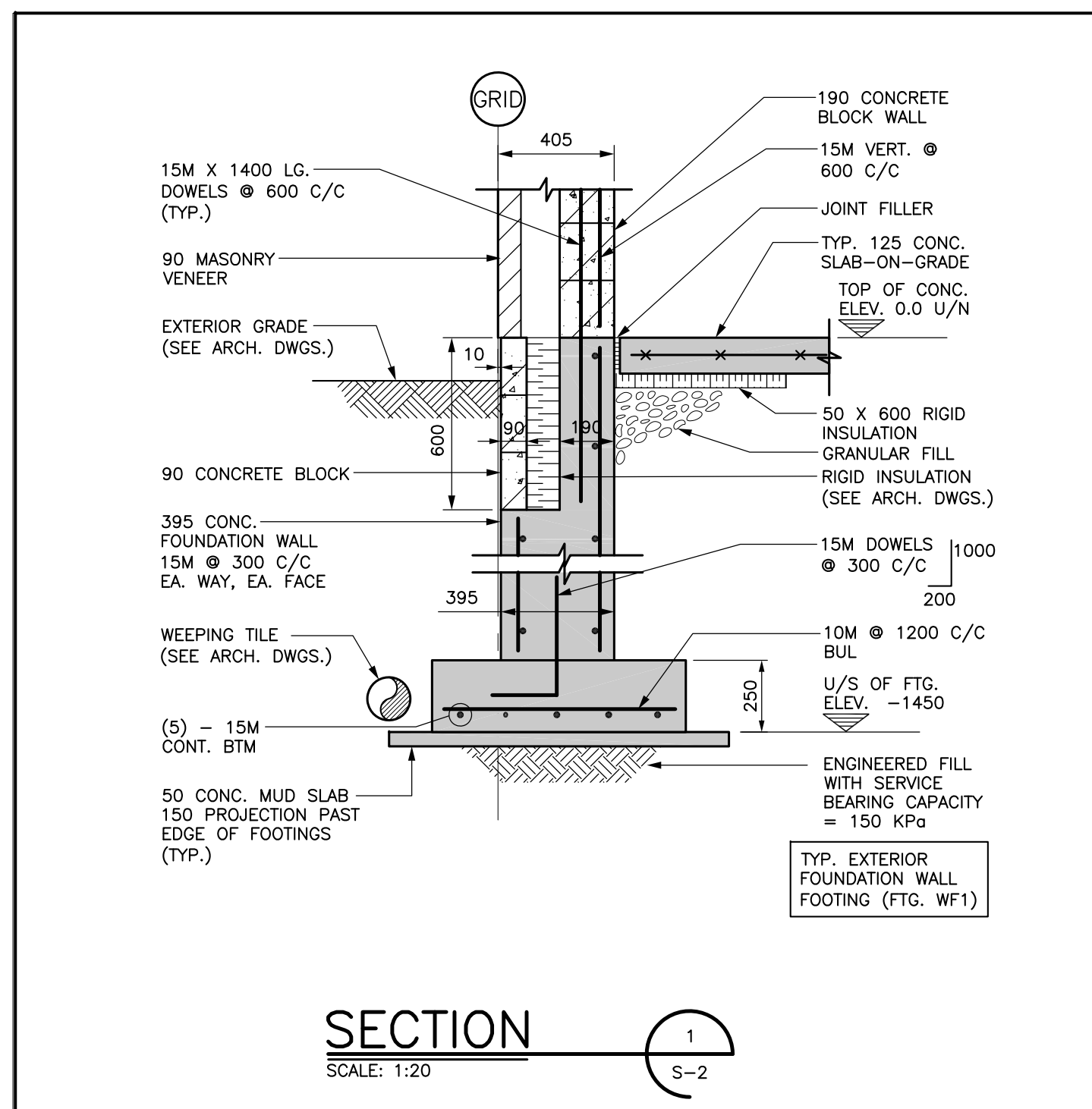
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WORKSHOP

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 6 Spauldine Street
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 T 416.901.8885 F 416.949.0383
 www.workshoparchitecture.ca

S-1



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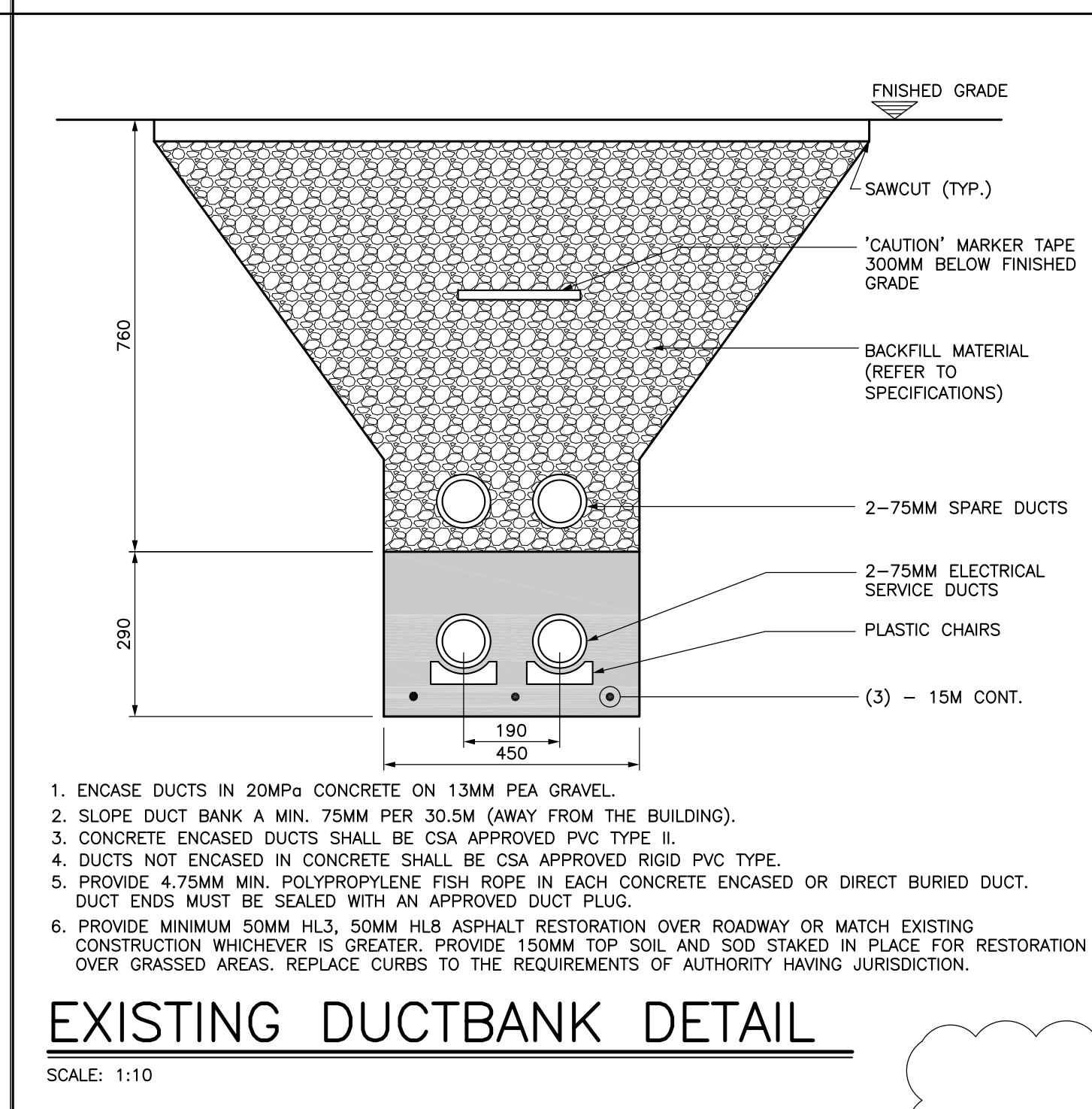
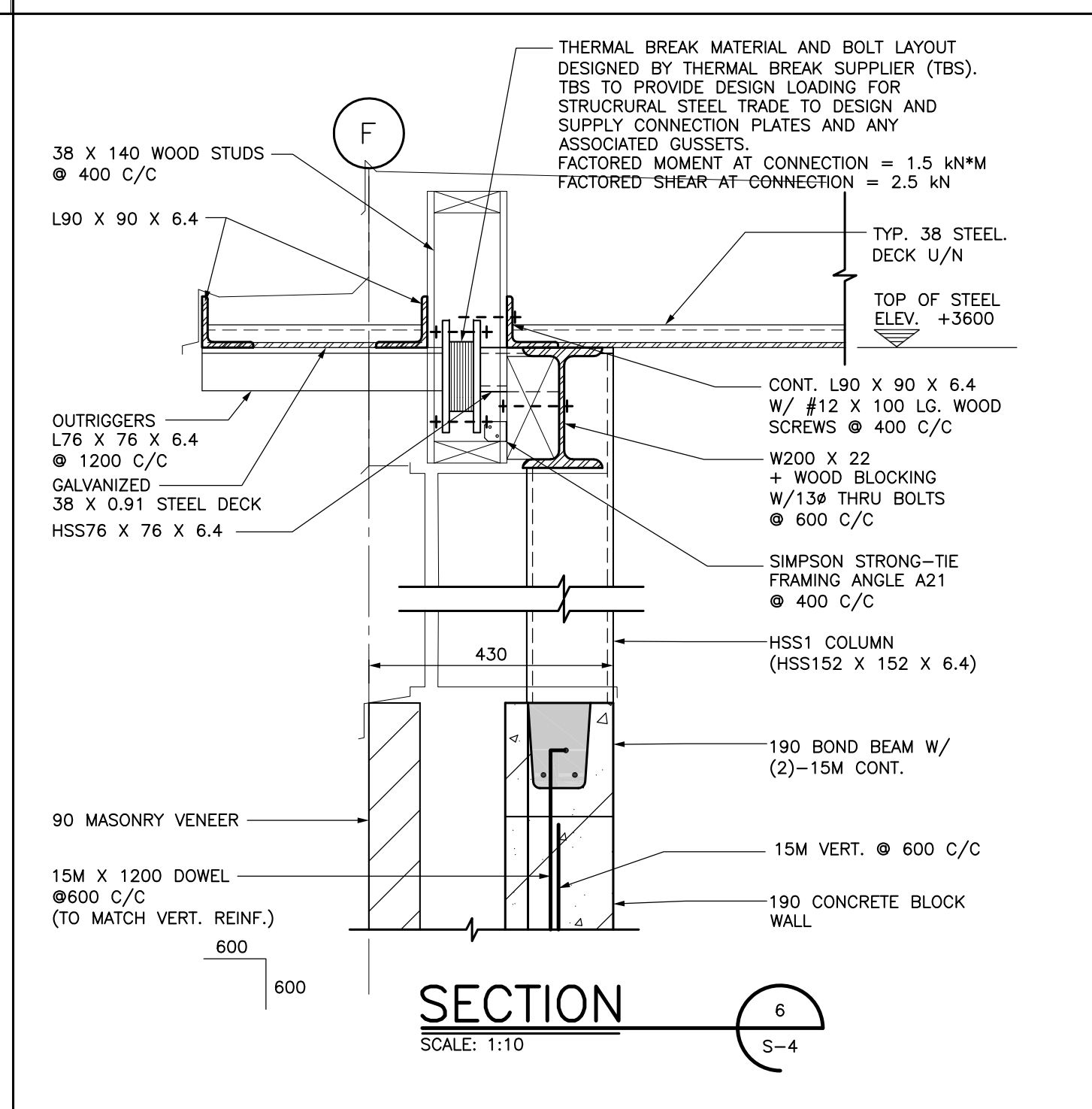
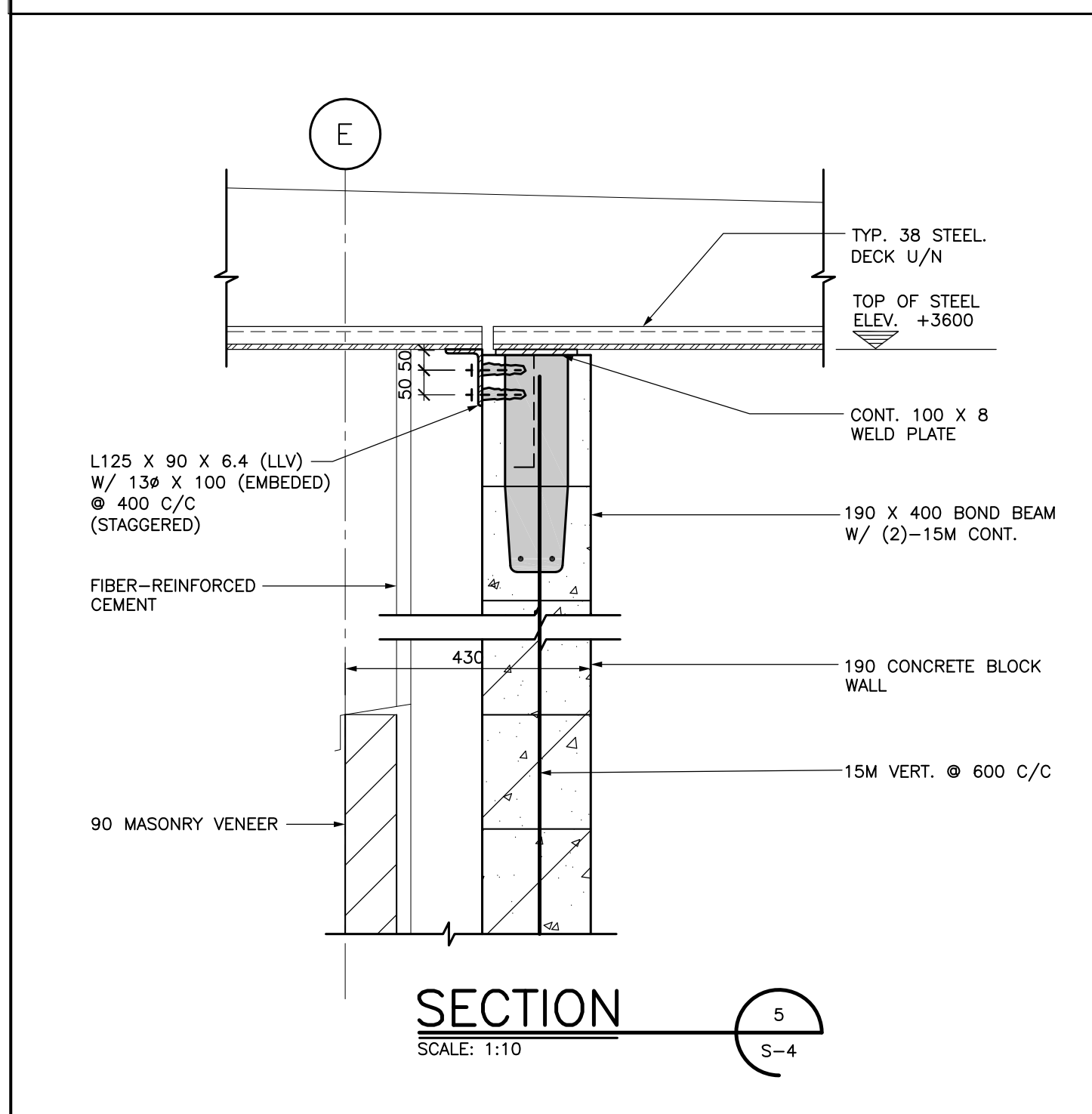
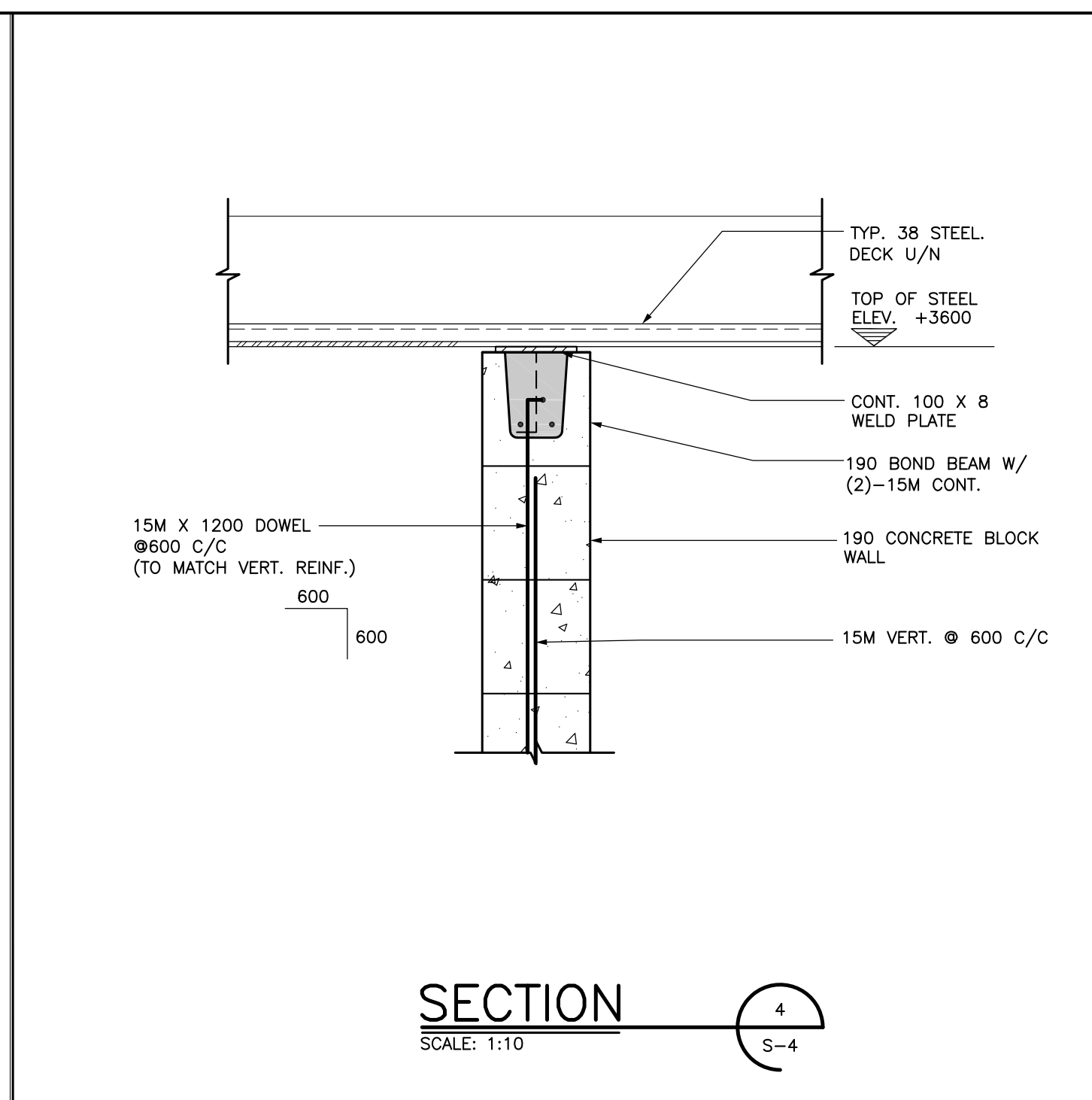
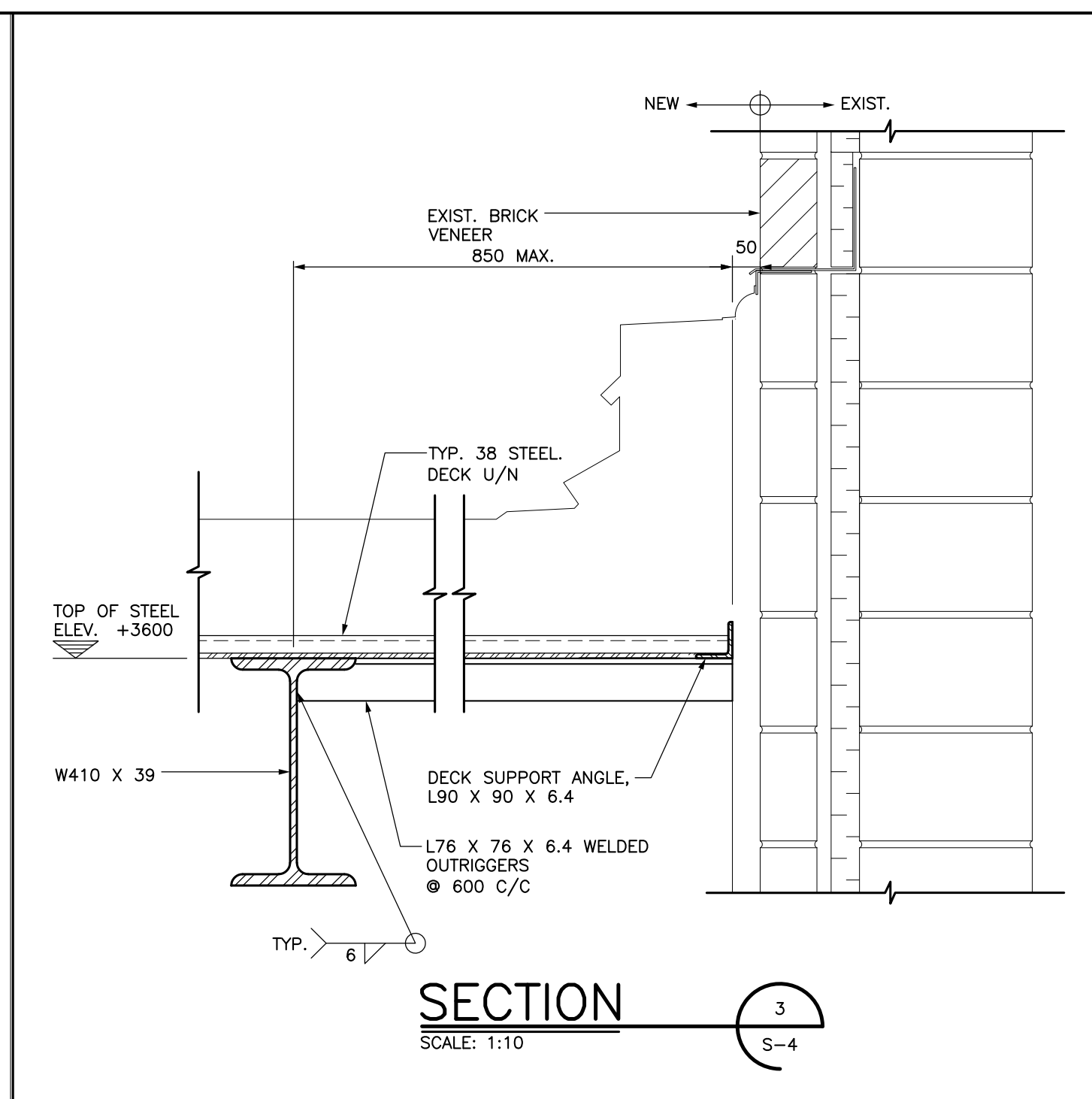
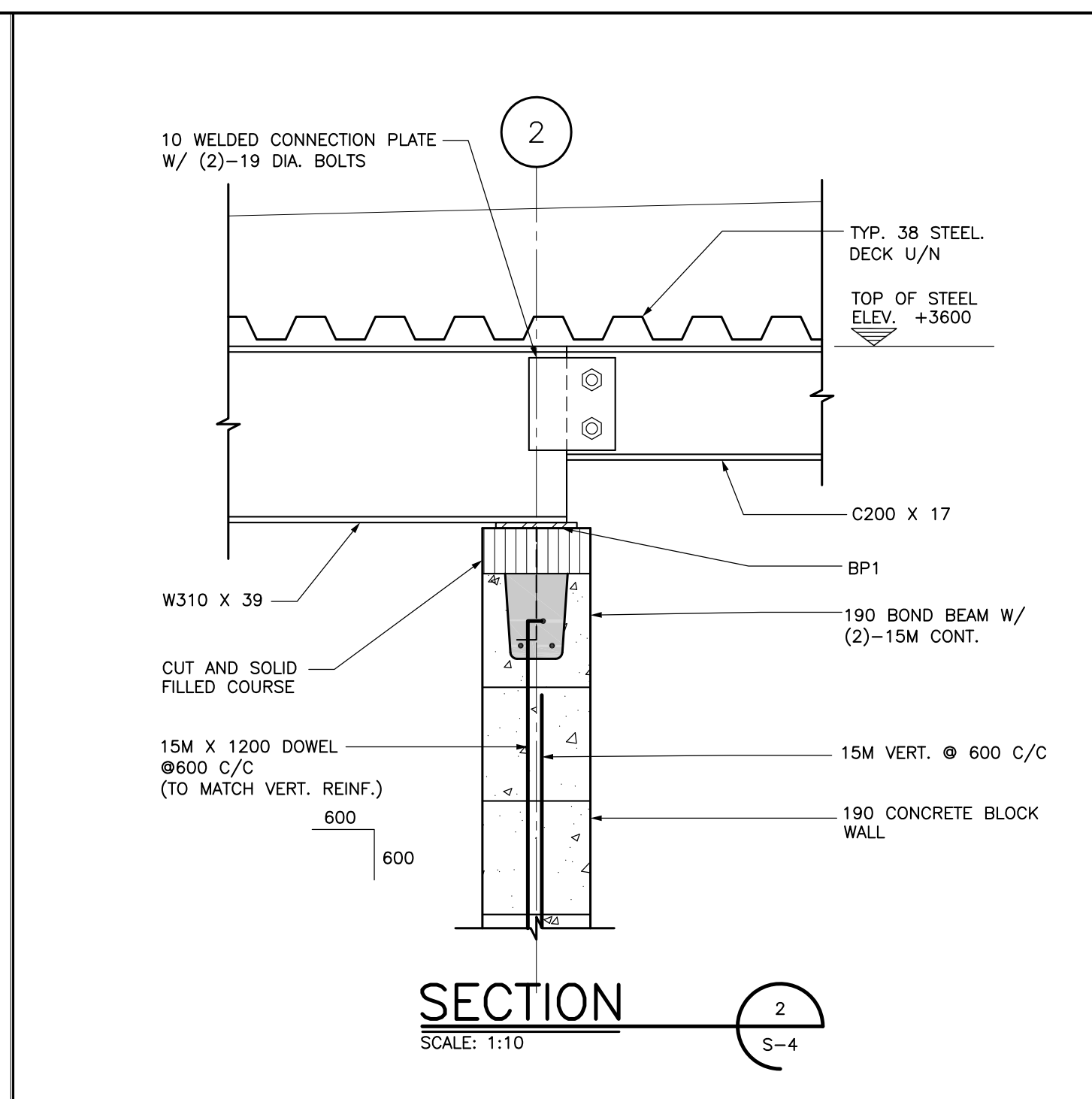
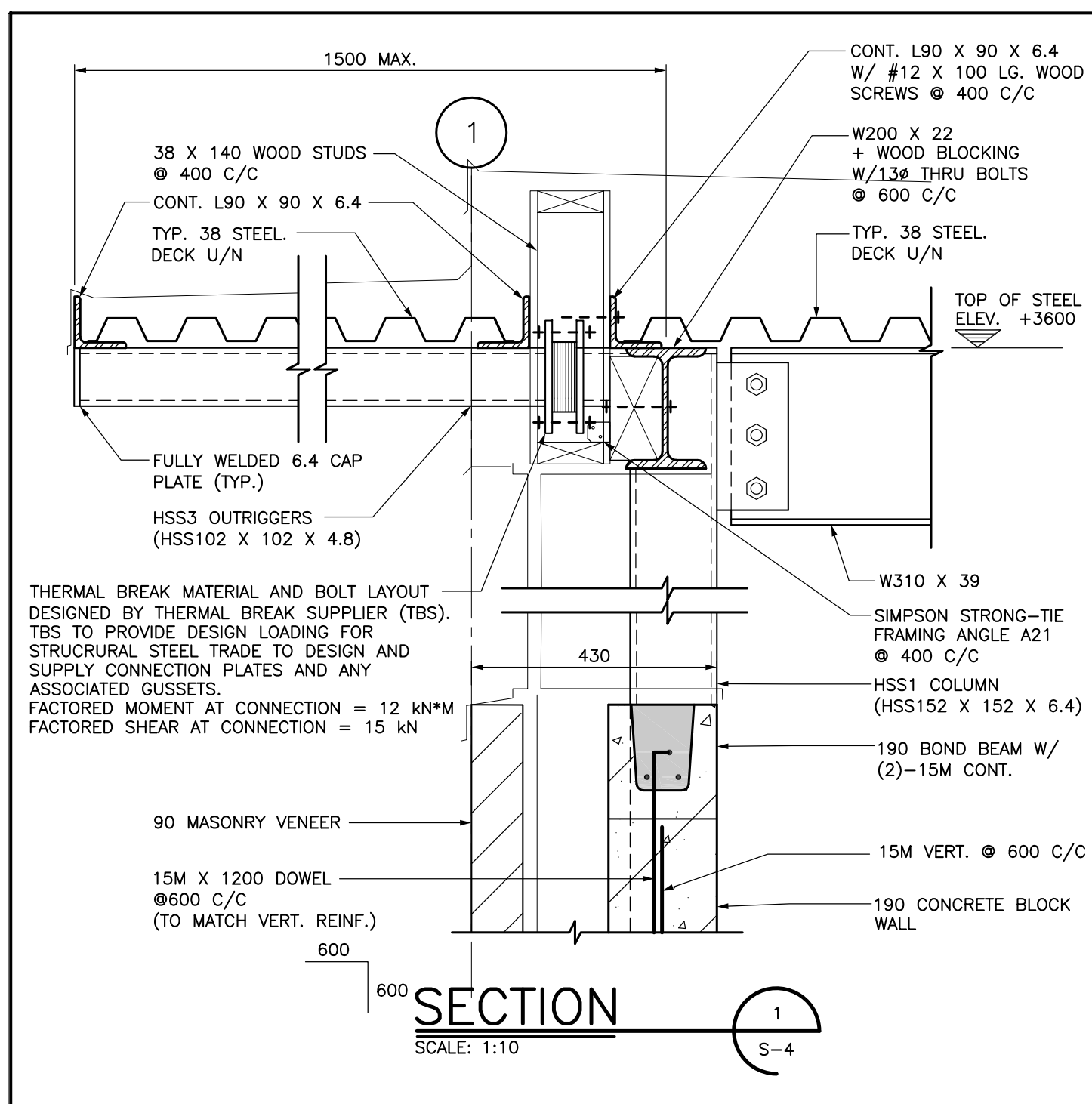
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Burlington, ON L7S 1H1

FOUNDATION SECTIONS AND DETAILS

Seal: D.L.

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DATE NOV. 2, 2022
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ROOF FRAMING SECTIONS AND DETAILS

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S-4 **DWG. NO.**

LINTEL SCHEDULE		
MARK	DESCRIPTION	REMARKS
L1/ ML1	2L'S 125 X 90 X 8 (LLV) + CONT. L125 X 90 X 8 (LLV)	
L2	W200 X 36 + CONT. 400 X 10 WELODED STM PLATE + 50 X 50 X 6 TOP FLANGE KEY PLATES @ 600 C/C	
L3	W200 X 36 + L125 X 90 X 8 (LLV) + 190 BOND BEAM WITH C130 X 13	
L4	2L'S 90 X 90 X 8	
L5/ ML5	2L'S 90 X 65 X 8 LLV	
L6/ ML6	L125 X 90 X 6 LLV	
L7	W200 X 27	
LINTEL NOTES		
1 ALL BACK TO BACK ANGLES OR SECTIONS TO BE STITCH WELDED TOP AND BTM. AT MINIMUM 200 C/C SPACING.		
2 ALL STEEL LINTELS IN EXTERIOR BLOCK WALLS TO BE HOT-DIPPED GALVANIZED.		
3 MINIMUM LINTEL BEARING LENGTH EQUALS 200 U/N ON THREE (3) COURSES OF SOLID FILLED MASONRY.		
4 SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL LINTEL SPANS (FIELD CHECK ALL LINTEL SPANS PRIOR TO FABRICATION).		
5 SEE ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL LINTEL OPENINGS NOT SHOWN ON STRUCTURAL DWGS.		
6 SEE STRUCTURAL NOTES, THIS DRAWING.		
7 ML → MECHANICAL OPENING LINTEL. SEE MECHANICAL DRAWINGS FOR ALL MECHANICAL OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. PROVIDE LINTELS AS PER MECHANICAL LINTEL SCHEDULE AND NOTES AT MECHANICAL OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS.		
8 CONCRETE BLOCK LINTELS TO BE FILLED WITH 20MPA CONCRETE.		
9 WHERE BLOCK BEARS ON TOP OF A STEEL BEAM, PROVIDE 50 X 6 X 50 WELDED TOP FLANGE KEY PLATES @ 600 C/C, UNLESS OTHERWISE NOTED. SOLID FILL COURSE DIRECTLY ABOVE BEAM.		
10 WHERE A CONTINUOUS WELDED BTM. OR TOP PLATE IS SPECIFIED ON A BEAM, THE PLATE IS TO EXTEND FULLY ONTO BEARING PLATES.		

REINFORCED MASONRY COLUMN SCHEDULE (RMC)			
MARK	DESCRIPTION	REINF.	REMARKS
RMC1	190 X 390	(2) - 15M VERT.	
RMC2	190 X 590	(3) - 15M VERT.	
RMC3	190 X 790	(4) - 15M VERT.	
RMC4	190 X 990	(5) - 15M VERT.	
RMC5	290 X 790	(4) - 20M VERT.	
RMC NOTES			
1 PROVIDE 4.67% GALV. HEAVY DUTY LADDER-TYP HORIZ. REINF. @ 200 C/C IN ALL REINFORCED MASONRY COLUMNS (RMC).			
2 CONCRETE FILL ALL MASONRY CORES WITH REINFORCEMENT.			
3 PROVIDE DOWELS IN FOUNDATION TO MATCH ALL MASONRY COLUMN REINFORCEMENT.			
4 RMC REINFORCEMENT AND CONCRETE FILL TO BE CONTINUOUS FROM FOUNDATION TO UNDERSIDE OF SUPPORTED STRUCTURE, UNLESS OTHERWISE NOTED.			
5 NO WALL OPENINGS TO GO THROUGH RMC'S.			
6 NO RECESSED MECHANICAL OR ELECTRICAL EQUIPMENT TO GO INTO RMC'S.			

MECHANICAL LINTEL SCHEDULE		
WALL THICKNESS	OPENING SIZE	USE
140	400 TO 1400	ML5 (2L'S 90 X 65 X 8 LLV)
190	400 TO 600	ML8 (2L'S 90 X 90 X 8)
190	600 TO 1600	ML9 (2L'S 125 X 90 X 10 LLV)
NOTES		
1 SEE LINTEL SCHEDULE, THIS DRAWING.		
2 MINIMUM LINTEL BEARING LENGTH EQUALS 200MM U/N ON THREE (3) COURSES OF SOLID FILLED BLOCK.		
3 SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS THROUGH WALLS.		
4 USE THE ABOVE SPECIFIED LINTELS WHERE SPECIFIC MECHANICAL LINTELS ARE NOT ALREADY SHOWN ON STRUCTURAL DRAWINGS.		
5 LINTELS SPECIFIED ABOVE ARE FOR INTERIOR WALLS. SEE LINTEL SCHEDULE FOR EXTERIOR WALL MECHANICAL OPENING LINTELS.		
6 REINFORCING IS NOT REQUIRED FOR STEEL DECK MECHANICAL ROOF OPENINGS UNDER 150MM SQ.		
7 MECHANICAL OPENINGS FROM 150MM TO 300MM SQ. SHALL BE FRAMED PERPENDICULAR TO THE DECK FLUTES WITH L75 X 75 X 8 SECURED TO THE UNDERSIDE OF THE DECK THROUGH THREE (3) UNCUIT FLUTES ON EACH SIDE OF THE OPENING.		
8 MECHANICAL OPENINGS OVER 300MM SQ. REQUIRE FRAMING BY THE STRUCTURAL STEEL CONTRACTOR.		
9 WHERE TWO OR MORE MECHANICAL LINTELS IN A ROW ARE SEPARATED BY LESS THAN 400MM OF BLOCK, NOTIFY CONSULTANT.		
10 WHERE THREE OR MORE LINTELS OCCUR IN A ROW AND ARE SEPARATED BY LESS THAN 600MM OF BLOCK AND HAVE ANGLES AS A LINTEL, NOTIFY CONSULTANT.		

TYP. SEISMIC WALL REINF. SCHEDULE			
LOAD BEARING CONCRETE BLOCK WIDTH	VERT. REINF.	HORIZ. REINF.	REMARKS
140	15M @ 600 C/C	HD LADDER-TYPE @ 200 C/C	ROD DIAM.: 4.76Ø
190	15M @ 600 C/C	HD LADDER-TYPE @ 200 C/C	ROD DIAM.: 4.76Ø
240	20M @ 600 C/C	HD LADDER-TYPE @ 200 C/C	ROD DIAM.: 4.76Ø
290	20M @ 600 C/C	HD LADDER-TYPE @ 200 C/C	ROD DIAM.: 4.76Ø
NON-LOAD BEARING CONCRETE BLOCK WIDTH	VERT. REINF.	HORIZ. REINF.	REMARKS
90	N/A	HD LADDER-TYPE @ 400 C/C	ROD DIAM.: 4.76Ø
140	N/A	HD LADDER-TYPE @ 400 C/C	ROD DIAM.: 4.76Ø
190	N/A	HD LADDER-TYPE @ 400 C/C	ROD DIAM.: 4.76Ø
240	N/A	HD LADDER-TYPE @ 400 C/C	ROD DIAM.: 4.76Ø
NOTES:			
1 SEE STRUCTURAL NOTES, THIS DRAWING.			
2 PROVIDE WALL REINFORCEMENT AS NOTED ABOVE IN ALL LOAD BEARING AND NON-LOAD BEARING CONCRETE BLOCK WALLS, WITH A RUNNING BOND. FOR STACK BOND, NOTIFY CONSULTANT.			
3 REINFORCEMENT EQUIVALENT TO AT LEAST 1-15M SHALL BE PROVIDED AROUND EACH MASONRY PANEL AND AROUND EACH OPENING EXCEEDING 1000MM IN WIDTH OR HEIGHT.			
4 VERTICAL AND HORIZONTAL REINFORCEMENT SHALL BE CONTINUOUS BETWEEN LATERAL SUPPORTS.			
5 HORIZONTAL REINFORCEMENT SHALL BE CONTINUOUS AND SPLICED/LAPPED AT A MINIMUM OF 200MM.			
6 PROVIDE HORIZONTAL REINFORCING IN THE TWO (2) TOP AND BTM. COURSES OF AN ABOVE GRADE CONCRETE BLOCK WALL, IN ADDITION TO THE SPECIFIED HORIZONTAL REINFORCEMENT IN THE ABOVE TABLE.			

CONCRETE MIX DESIGN SCHEDULE					
LOCATION	STRENGTH	CLASS OF EXPOSURE	NORMAL SIZE OF AGGREGATE	SLUMP	AIR CONTENT (MAX.)
FOOTINGS	25 MPA	N	20	50-100	0-3%
INTERIOR FOUNDATION WALLS; INTERIOR SLABS-ON-GRADE, COLUMNS, PIERS,	30 MPA	N	20	60-90	0-3%
CONCRETE IN BLOCK AND LINTELS	20 MPA	N	10 MM (MAX.)	50-100	0-3%
EXTERIOR CONCRETE SLABS & FOUNDATION WALLS	35 MPA	C-1	20	60-90	5-8%
LEAN CONCRETE FILL, MUD SLABS	10 MPA	N	20	100-150	0-3%
ALL OTHER CONCRETE	25 MPA	N	20	50-100	0-3%
READY MIX CONCRETE NOTES:					
1 UNLESS OTHERWISE SPECIFIED, CONCRETE SHALL BE PREMIXED, QUALITY CONTROLLED, AND CONFORMING TO CSA STANDARD A23.1, WITH MINIMUM 28 DAY COMPRESSIVE STRENGTHS AS NOTED IN THE ABOVE TABLE.					
2 CEMENT SHALL BE PORTLAND CEMENT OF CANADIAN MANUFACTURE CONFORMING TO CSA STANDARD A3000, TYPE GU (10).					
3 SUPPLEMENTARY CEMENTING MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD A3000.					
4 WATER SHALL BE POTABLE FROM A MUNICIPAL SUPPLY.					

STRUCTURAL SPECIFICATIONS

GENERAL

- 1 READ SPECIFICATIONS IN CONJUNCTION WITH DRAWINGS.
- 2 SEE EXISTING ARCHITECTURAL AND STRUCTURAL DRAWINGS, AND PAST ADDITION DRAWINGS FOR REFERENCE.
- 3 COORDINATE ALL DIMENSIONS AND HEIGHTS ON STRUCTURAL DWGS. WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES.
- 4 COORDINATE ALL MECHANICAL OPENING SIZES AND LOCATIONS WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION.
- 5 FIELD CHECK ALL SITE DIMENSIONS PRIOR TO PROCEEDING WITH ANY WORK.
- 6 CONFIRM ALL MECHANICAL EQUIPMENT SIZES, LOCATIONS, AND WEIGHTS PRIOR TO ANY STRUCTURAL FABRICATION OR CONSTRUCTION.
- 7 DEMOLITION PROCEDURES SHALL CONFORM TO: CSA-S350-M1980 (R2003), CODE OF PRACTICE FOR SAFETY IN DEMOLITION OF STRUCTURES, AND, OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS, O. REG. 213/91, AS AMENDED BY ALL SUBSEQUENT ONTARIO REGULATIONS.
- 8 PROVIDE TEMPORARY SHORING WHERE REQUIRED FOR SAFETY, AND WHERE REQUIRED TO FACILITATE THE INSTALLATION OF STRUCTURAL MEMBERS SHOWN ON THE STRUCTURAL DRAWINGS.
- 9 READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. MAKE STRUCTURAL PROVISION FOR ANY WORK NOT SHOWN ON STRUCTURAL DRAWINGS BUT SHOWN ON OTHER DRAWINGS.
- 10 ALL LOADS INDICATED ON DRAWINGS ARE UNFACTORED UNLESS OTHERWISE NOTED.

DESIGN LOADS (BURLINGTON)

ROOF AREAS

(SNOW LOAD $S_s = 1.1$ KPA, $S_r = 0.4$ KPA)
SNOW LOAD = 1.47 KPA OR ANY GREATER SNOW ACCUMULATION SHOWN ON DRAWINGS.
DEAD LOAD = 1.0 KPA PLUS ANY ADDITIONAL MECHANICAL LOADS INDICATED ON PLANS.

GROUND FLOOR AREAS

LIVE LOAD = 4.8 KPA.
DEAD LOAD = VARIES.

WIND LOADING FACTORS

$q = 0.46$ KPA (1/50), $w = 1.15$, $C_s = 1.0$, $C_e C_q = AS$ PER NBC COMMENTARY I

$C_{pi} = -0.45$ TO 0.3

SITE CLASS D

$S_w(0.2) = 0.266$, $F_o = 1.3$, $I_e = 1.3$

$I_e(F_o)S_w(0.2) = 0.45 > 0.35$, THEREFORE SEISMIC RESTRAINTS FOR MECH. AND ELECT. EQUIPMENT ARE REQUIRED.

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL LOADS NOT SPECIFIED.

FOUNDATION NOTES

- 1 SEE FOUNDATION PLAN ON DRAWING S-1, AND FOUNDATION DETAILS ON DRAWING S-2.
- 2 SOIL INFORMATION TAKEN FROM GEOTECHNICAL INVESTIGATION PERFORMED BY PINCHIN, REF. NO. 313698 DATED DECEMBER 15, 2022. APPROXIMATE BOREHOLE LOCATIONS INDICATED ON FOUNDATION PLAN, DRAWING S-1.
- 3 FOR SERVICES UNDER FOOTINGS, SEE MECHANICAL DRAWINGS FOR LOCATION AND CONSTRUCTION OF ALL INSERTS, SLEEVES, DRAINS, ETC. CONSTRUCT FOOTINGS DEEPER AS REQUIRED WHERE MECHANICAL SERVICES PASS UNDER FOOTINGS.
- 4 ALL FOOTINGS TO BE FOUND ON UNDISTURBED NATIVE STIFF SILT TILL OR ENGINEERED FILL WITH AN UNFACTORED BEARING RESISTANCE (SLS) OF 150KPA AND FACTORED BEARING RESISTANCE (ULS) OF 224KPA. IN THE EVENT OF POORER BEARING CAPACITIES AT THESE ELEVATIONS, THE CONTRACTOR SHALL NOTIFY THE CONSULTANTS BEFORE PROCEEDING WITH CONSTRUCTION.

CONCRETE NOTES

- 1 ALL CONCRETE TO HAVE A MINIMUM TWENTY-EIGHT (28) DAY COMPRESSIVE STRENGTH AS PER CONCRETE MIX DESIGN SCHEDULE, THIS DRAWING.
- 2 ALL CONCRETE REINFORCEMENT TO BE DEFORMED CONFORMING TO CAN/CSA G30.18 WITH A MINIMUM YIELD STRENGTH OF 400 MPA (58,000 PSI).
- 3 ALL REBAR SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH CSA A23.1 AND A.C.I. 315 MANUAL.
- 4 ALL GROUT SHALL BE SIKA CONSTRUCTION M-BED STANDARD OR EQUAL, NON-SHRINK, WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 40MPA (5,800 PSI).
- 5 ALL MECHANICAL AND ELECTRICAL FLOOR AND ROOF OPENINGS TO BE COORDINATED WITH DIVISION 15 AND 16. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF THE WORK.
- 6 ALL CONCRETE CONSTRUCTION TO CONFORM TO C.S.A. A23.1-14/A23.2-14.
- 7 SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ARCHITECTURAL SURFACE TREATMENT OR AGGREGATE REQUIREMENTS FOR EXPOSED CONCRETE FINISHES.
- 8 PROVIDE WATER STOPS WHERE INDICATED ON BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 9 PROVIDE WELDED WIRE MESH REINFORCEMENT WHERE INDICATED ON DRAWINGS, AND IN ALL SLAB-ON-GRADE AREAS, UNLESS OTHERWISE NOTED.
- 10 RECESS SLAB-ON-GRADE AND CONCRETE TOPPING AREAS AS REQUIRED FOR SPECIAL FLOOR FINISH APPLICATIONS. SEE ARCHITECTURAL DRAWINGS FOR FLOOR AREA LOCATIONS AND DEPTH OF RECESS REQUIRED.
- 11 ALL RIGID INSULATION SHALL BE 'STYROFOAM SM' S MANUFACTURED BY DOW BUILDING SOLUTIONS, OR APPROVED EQUIVALENT. MINIMUM COMPRESSIVE STRENGTH OF INSULATION SHALL BE 210 KPA.

MASONRY NOTES

- 1 ALL LOAD BEARING CONCRETE BLOCK CONSTRUCTION, EXCEPT FOR FILLING OF REINFORCED MASONRY COLUMNS (RMC'S) AND REINFORCED BLOCK CORES, SHALL USE TYPE 'S' MORTAR FOR JOINTS. 20MPA CONCRETE WITH A MINIMUM 10MM STONE AGGREGATE SHALL BE USED FOR THE FILLING OF REINFORCED BLOCK CORES.
- 2 ALL CONCRETE BLOCKS TO HAVE MINIMUM NET AREA COMPRESSIVE STRENGTH (f'_c) OF 20MPA (2,900 PSI) AND SHALL BE METRIC SIZE, TWO (2) CORES.
- 3 UNLESS NOTED OTHERWISE ALL MASONRY AND CONC. EXPANSION ANCHORS TO BE 'HILTI KWIK-BOLT' EXPANSION ANCHORS OR APPROVED EQUIVALENT, AND SHALL BE INSERTED INTO SOLID CONCRETE, OR SOLID FILLED MASONRY CORES. MINIMUM EMBEDMENT DEPTH TO BE 50 MM.
- 4 WHERE SPECIFIED ON DRAWINGS, CONCRETE ADHESIVE ANCHORS SHALL BE 'HILTI HVA' ADHESIVE OR APPROVED EQUIVALENT INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEE SECTIONS FOR SPECIFIC ADHESIVE ANCHOR REQUIREMENTS.
- 5 ALL CONCRETE BOND BEAMS AND LINTEL BLOCKS SHALL BE FILLED WITH CONCRETE HAVING A TWENTY-EIGHT (28) DAY COMPRESSIVE STRENGTH OF 20MPA.
- 6 MASONRY CONCRETE BLOCK WALL CONSTRUCTION IS GENERALLY UNREINFORCED EXCEPT AS INDICATED ON DRAWINGS.
- 7 WHERE EXTERIOR BLOCK VENEER IS CONSTRUCTED WITH A LOAD BEARING MASONRY WYTHE (CAVITY WALL), PROVIDE HEAVY DUTY LADDER-TYPE, GALVANIZED, HORIZONTAL MASONRY REINFORCEMENT WITH THREE (3) LONGITUDINAL RODS OR SUITABLE APPROVED EQUIVALENT CONSTRUCTION. LOAD BEARING WALLS: 400 C/C, NON-LOAD BEARING WALLS: 800 C/C. ALTERNATE BLOCK COURSES PROVIDE HEAVY DUTY LADDER-TYPE, GALVANIZED, HORIZONTAL MASONRY REINFORCEMENT WITH TWO (2) LONGITUDINAL WIRES.
- 8 HORIZONTAL BLOCK REINFORCEMENT: FOR INTERIOR LOAD BEARING WALLS PROVIDE HEAVY DUTY LADDER-TYPE REINFORCING @ 400 C/C; FOR INTERIOR NON-LOAD BEARING WALLS PROVIDE HEAVY DUTY LADDER-TYPE REINFORCING @ 400 C/C. HORIZONTAL REINFORCING TO OVERLAP A MINIMUM 200MM.
- 9 IF REQUIRED, TOP OF MASONRY WALLS SHALL BE CUT TO SUIT ROOF SLOPES ONLY.
- 10 ALL REINFORCED MASONRY COLUMNS (RMC'S) INDICATED ON DRAWINGS SHALL USE 20MPA CONCRETE WITH MAX. 10MM AGGREGATE FOR FILLING OF CORES. VERTICAL REINFORCEMENT TO BE PLACED AND LAPPED IN ACCORDANCE WITH A.C.I. 315 MANUAL.

MASONRY NOTES (CONT.)

- 11 PROVIDE VERTICAL MASONRY REINFORCEMENT (DOWELS) AT ALL GROUND FLOOR AND ROOF LEVEL WALL TRANSITION AREAS AS INDICATED ON THE DRAWINGS AND SECTIONS.
- 12 WHERE SPECIFIED ON DRAWINGS, CONCRETE ADHESIVE ANCHORS SHALL BE 'HILTI HVA' ADHESIVE OR APPROVED EQUIVALENT INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 13 SOLID FILL ALL MASONRY CORES WHERE ANCHORAGE IS SPECIFIED FOR SUPPORT OF LADDERS, BENCHES, COAT RACKS, ETC., UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
- 14 IN ADDITION TO REINFORCEMENT SPECIFIED ON THE STRUCTURAL DRAWINGS, A MINIMUM OF 1-15MM BAR AROUND EACH OPENING EXCEEDING 1000MM IN WIDTH OR HEIGHT, AS WELL AS AT CORNERS, INTERSECTIONS, ENDS OF WALLS AND AT EACH SIDE OF CONTROL JOINTS SHALL BE PROVIDED.
- 15 IF NOT TOOTHED IN, NON-LOAD BEARING CONCRETE BLOCK WALL ENDS TO BE ANCHORED INTO ABUTTING WALLS WITH 10M X 300LG. (200 + HOOK) DOWEL SPACED AT 400 C/C (VERT.) INTO SOLID FILLED CONCRETE BLOCK. PLACE ONE (1) DOWEL AT THE TOP AND BOTTOM COURSE.
- 16 CONCRETE BLOCK INFILL AREAS AND NEW WALL ENDS TO BE ANCHORED INTO EXISTING ABUTTING WALLS WITH 10M X 300LG. (200 + HOOK) DOWEL SPACED AT 400 C/C (VERT.) IN SOLID FILLED CONCRETE BLOCK. PLACE ONE (1) DOWEL AT THE TOP AND BOTTOM COURSE, EACH SIDE. HORIZONTAL REINFORCING TO BE AS SPECIFIED ON THIS DRAWING.
- 17 FOR CONCRETE BLOCK INFILL AROUND STEEL BEAMS IN WALLS, PROVIDE CORRUGATED VENEER TIES, EACH SIDE, FASTENED TO WEB OF BEAM WITH SELF-TAPPING SCREWS, AT ALL HEAD (VERT.) AND BED (HORIZ.) JOINTS PER BLOCK.

STRUCTURAL STEEL NOTES

- 1 ALL STRUCTURAL STEEL SHALL CONFORM TO C.S.A. G40.21 WITH A MINIMUM YIELD STRENGTH OF 350 MPA (50, 750 PSI).
- 2 STRUCTURAL STEEL DETAILING AND CONNECTIONS TO CONFORM TO CAN/CSA - S16-14.
- 3 ALL WELDING SHALL BE IN CONFORMANCE WITH C.S.A. W59-13 AND TO THE REQUIREMENTS OF W47.1 (DIV. 1 OR 1), AND SHALL UTILIZE E49XX ELECTRODES.
- 4 ALL STRUCTURAL BOLTS AND FASTENERS SHALL CONFORM TO ASTM A-325 BEARING TYPE (F3125/F3125M-15A). ANCHOR BOLTS SHALL CONFORM TO ASTM-307.
- 5 SEE LINTEL SCHEDULE, THIS DRAWING, FOR CONSTRUCTION OF ALL MARKED LINTELS. MINIMUM BEARING LENGTH FOR LINTELS SHALL BE 200MM UNLESS NOTED OTHERWISE.
- 6 ALL BEAMS TO HAVE A MINIMUM BEARING LENGTH TO MATCH BEARING PLATE DIMENSIONS. SEE BEARING PLATE SCHEDULE, THIS DRAWING, FOR BEARING PLATE REQUIREMENTS.
- 7 ALL DIMENSIONS AND ELEVATIONS TO BE VERIFIED IN THE FIELD BY THE STRUCTURAL STEEL CONTRACTOR.
- 8 ALL LINTELS AND STRUCTURAL SHAPES IN EXTERIOR WALLS OR EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED AFTER SHOP FABRICATION UNLESS OTHERWISE NOTED. IF SPRAY FOAM INSULATION IS TO BE USED ON EXTERIOR WALLS, NOTIFY CONSULTANT.
- 9 ALL COLD ROLLED STRUCTURAL STEEL TO CONFORM TO ASTM A-446 FOR GALVANIZED SHEET STEEL. MINIMUM 50 KSI YIELD. STRUCTURAL PROPERTIES TO BE COMPUTED IN ACCORDANCE WITH C.S.A. S-136-12.
- 10 CONTRACTOR TO SUBMIT ERECTION AND FABRICATION SHOP DRAWINGS FOR ALL STRUCTURAL STEEL FOR REVIEW BY CONSULTANTS. CONTRACTOR TO FIELD MEASURE ALL BEAM/LINTEL SPANS TO ENSURE ADEQUATE BEAM BEARING LENGTH. SHOP DRAWINGS TO COME COMPLETE WITH PROFESSIONAL ENGINEER'S STAMP FOR CONNECTION DETAILS.
- 11 SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR REQUIRED OPENING SIZES FOR LINTELS AND FOR ANY ADDITIONAL LINTELS NOT SHOWN ON STRUCTURAL DRAWINGS.
- 12 ALL STRUCTURAL STEEL, UNLESS OTHERWISE NOTED, SHALL BE PRIME PAINTED TO A MINIMUM 3 MIL THICKNESS. ANY EXPOSED STEEL SHALL BE WITHOUT PAINT DRIPS.
- 13 ALL BEAM AND LINTEL PLATES TO EXTEND INTO FULL DEPTH BEARING WITH BEAM OR LINTELS.
- 14 UNLESS OTHERWISE NOTED, ALL WELDING TO BE 6MM FILLET WELDS, ALL AROUND.

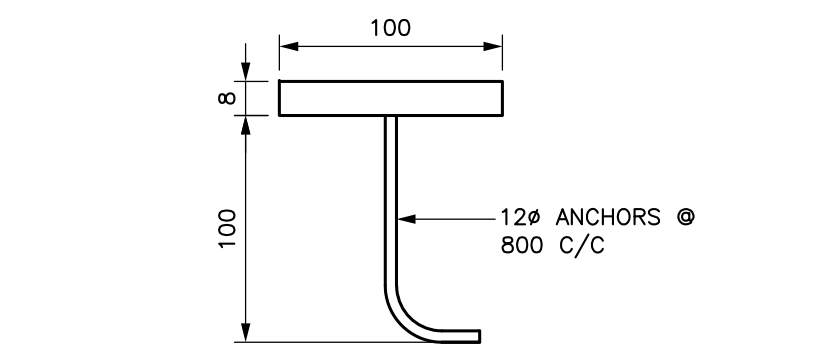
STEEL DECK NOTES

- 1 ALL STEEL ROOF AND FLOOR DECK SHALL BE 38 MM DEEP X 152 MM MODULE X 0.91 MM THICKNESS (UNLESS NOTED OTHERWISE ON PLAN) AND SHALL BE MINIMUM 3 SPAN CONTINUOUS WHEREVER POSSIBLE.
- 2 STEEL DECK SHALL BE MANUFACTURED FROM GALVANIZED SHEET STEEL CONFORMING TO ASTM A653 M, GRADE A OR B. ZINC COATING SHALL BE EACH SIDE AND CONFORMING TO Z-275 DESIGNATION.
- 3 ALL STEEL DECK TO BE WELDED THROUGH LOW RIBS TO SUPPORTING STEEL WITH 20 DIAMETER FUSION WELDS AND SIDE LAP DECK JOINTS FASTENED MECHANICALLY TO PROVIDE A STRENGTH OF 9.8KN/M AND FLEXIBILITY OF 101 MMX10⁻⁶/N. ALL SHOP DRAWINGS TO BE STAMPED BY A PROFESSIONAL ENGINEER.
- 4 CONTRACTOR SHALL SUBMIT STEEL DECK ERECTION DRAWINGS FOR REVIEW BY CONSULTANTS.
- 5 REINFORCING IS NOT REQUIRED FOR STEEL DECK MECHANICAL ROOF OPENINGS UNDER 150MM SQ.
- 6 MECHANICAL OPENINGS FROM 150MM TO 300MM SQ. SHALL BE FRAMED PERPENDICULAR TO THE DECK FLUTES WITH L75 X 75 X 8 SECURED TO THE UNDERSIDE OF THE DECK THROUGH THREE (3) UNCUIT FLUTES ON EACH SIDE OF THE OPENING.
- 7 MECHANICAL OPENINGS OVER 300MM SQ. REQUIRE FRAMING BY THE STRUCTURAL STEEL CONTRACTOR.
- 8 TOUCH-UP WELDS WITH A COLD GALVANIZING COMPOUND PER MANUFACTURER'S SPECIFICATIONS.

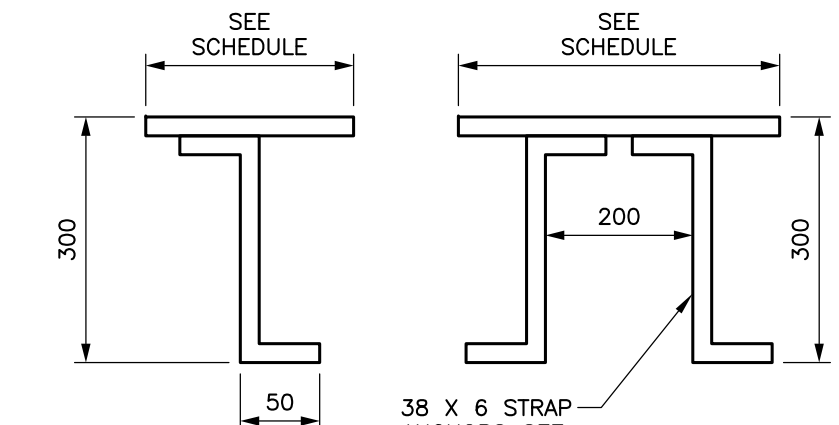
WOOD CONSTRUCTION

- 1 ALL WOOD FRAMING AND CONSTRUCTION (I.E. NAILING, BLOCKING, BRIDGING, BEARING, ETC.) SHALL COMPLY WITH OBC SECTION 9.2.3. WOOD FRAMING.
- 2 ALL STRUCTURAL WOOD FRAMING SHALL BE MINIMUM NO. 02 GRADE, SPRUCE-PINE-FIR MATERIAL, UNLESS NOTED OTHERWISE.
- 3 PLYWOOD SHALL BE A MINIMUM 12.7MM, GIS, DOUGLAS FIR PLYWOOD CONFORMING TO CSA 0121, OR APPROVED EQUIVALENT.
- 4 ALL WOOD SHEATHING SHALL BE NAILED TO SUPPORTING FRAMING IN ACCORDANCE WITH CSA 086, CASE 2 SYSTEM.
- 5 ALL WOOD CONNECTORS SHALL BE MINIMUM 18 GA. GALVANIZED STEEL, PREFABRICATED ELEMENTS AS MANUFACTURED BY SIMPSON STRONG TIE OR APPROVED EQUIVALENT. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

BEARING PLATE SCHEDULE			
MARK	SIZE	ANCHOR	REMARKS
BP1	175 X 20 X 200	1	TYPICAL AT ALL STRUCTURAL MEMBER BEARING POINTS UNLESS OTHERWISE NOTED ON PLANS.
BP2	180 X 20 X 300	1	
BP3	400 X 20 X 800	2	
BP4	180 X 20 X 400	2	
BEARING PLATE NOTES			
1 STRAP ANCHORS TO BE 38 X 6 X 300LG. WELDED TO U/S OF BEARING PLATE.			
2 UNLESS NOTED OTHERWISE, ALL STRUCTURAL SHAPES, INCLUDING OWSJ, SHALL BEAR ON BP1.			
3 FILL MINIMUM THREE (3) MASONRY COURSES SOLID WITH CONCRETE FILL UNDER ALL BEARING PLATES.			
4 BEAM BEARING LENGTH TO MATCH CORRESPONDING BASE PLATE DIMENSIONS UNLESS NOTED.			
5 FIELD WELD ALL STRUCTURAL SHAPES TO BEARING PLATES WITH MINIMUM TWO (2) - 6 X 38LG. FILLET WELDS EACH SIDE EXCEPT WHERE NOTED OTHERWISE.			
6 CONCRETE FILL ALL BEAM BEARING AREA WALL VOIDS AFTER INSTALLATION OF BEAM.			
7 WHERE A BP BEARS ON AN RMC, CENTRE BP ON RMC.			



TYPICAL WELD PLATE DETAIL (WP)



BEARING PLATE DETAILS

01/14/2024	ISSUED FOR TENDER
12/10/2024	ISSUED FOR PERMIT
9/30/2024	90% DRAWINGS ISSUED FOR CLIENT REVIEW
DATE	REVISIONS
CND ENGINEERING LIMITED	
115 KING STREET EAST, 3RD FLOOR HAMILTON, ON L8N 1A9	
THE FOUNDATION TO A SUCCESSFUL PROJECT STARTS HERE.	
WWW.CNDENG.CA	
CSV Renaissance Child Care Addition	
1226 Lockhart Rd Burlington, ON L7S 1H1	
SPECIFICATIONS AND SCHEDULES	
DRAWING	
TRUE NORTH	DWG. NORTH
22033	JOB NO.
AS NOTED SCALE	
NOV. 2, 2022	DATE
WORKSHOP	
WORKSHOP is an architecture studio: 6 Sasse Menard Street Toronto Ontario M6P 0A8 T 416.801.8085 F 416.846.0383 www.workshoparchitecture.ca	
S-5	

Sheet List Table	
SHEET NUMBER	SHEET TITLE
M0.1	MECHANICAL LEGEND & DRAWING LIST
M1.0	MECHANICAL SITE PLAN
M2.0	PLUMBING - FOUNDATION PLAN
M2.1	PLUMBING - GROUND & ROOF PLAN
M3.1	HVAC PIPING - GROUND FLOOR PLAN
M4.1	HVAC - VENTILATION GROUND FLOOR PLAN
M5.1	FIRE PROTECTION - GROUND FLOOR PLAN
M6.0	MECHANICAL CONTROL SEQUENCES
M7.0	MECHANICAL SCHEDULES
M8.0	MECHANICAL DETAILS 1
M8.1	MECHANICAL DETAILS 2
M8.2	MECHANICAL DETAILS 3
M8.3	MECHANICAL DETAILS 4

GENERAL NOTES

- THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. THIS SHALL BE DONE IN ORDER TO CONFIRM THAT EQUIPMENT AND SERVICES CAN BE INSTALLED AS SHOWN ON DRAWINGS AND THAT ADDITIONAL COSTS ARE INCLUDED IN BID TO FACILITATE INSTALLATION. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ENGINEERS OF ANY DISCREPANCIES, OMISSIONS, AND INTERFERENCES. CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS TO CONSULTANT FOR REVIEW AND DIRECTION.
- ENSURE THAT ALL NEW AND EXISTING MECHANICAL EQUIPMENT REQUIRING MAINTENANCE IS ACCESSIBLE AND THAT ACCESS REQUIREMENTS ARE NOT OBSTRUCTED BY NEW OR EXISTING SERVICES AND STRUCTURE. COORDINATE WITH SCHOOL BOARD AND ALL OTHER TRADES. INSTALL MECHANICAL EQUIPMENT IN SUCH A WAY AS TO PROVIDE ALL ACCESS REQUIREMENTS. REFER TO SHOP DRAWINGS AND/OR MANUFACTURER'S RECOMMENDATIONS FOR ACCESS REQUIREMENTS. REPORT ANY OBSTRUCTIONS TO THE SCHOOL BOARD AND MECHANICAL ENGINEER. PROVIDE ACCESS DOORS/PANELS WITH MINIMUM DIMENSIONS AS NOTED BELOW (UNLESS INDICATED OTHERWISE ON DRAWINGS):
 2.1. 24 INCHES BY 24 INCHES FOR PERSONNEL ENTRY.
 2.2. 18 INCHES BY 18 INCHES FOR HAND ENTRY.
 2.3. 12 INCHES BY 12 INCHES FOR VIEWING ONLY.
 2.4. SIZE DOORS TO ALLOW ADEQUATE OPERATING/MAINTENANCE CLEARANCE FOR DEVICES.
 2.5. ACCESS DOORS SHALL BE, WHEREVER POSSIBLE, OF A STANDARD SIZE FOR EACH APPLICATION.
- PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING CEILINGS AND WALLS TO FACILITATE DEMOLITION AND THE INSTALLATION OF THE MECHANICAL SERVICES OUTLINED FOR THIS SCOPE OF WORK.
- WELDING TO BE PERFORMED WITH STRINGENT ENVIRONMENTAL CONDITIONS FOR SMOKE AND FUME EVACUATION.
- THE MECHANICAL DRAWINGS ARE PERFORMANCE DRAWINGS, DIAGRAMMATIC, AND SHOW APPROXIMATE LOCATIONS OF EQUIPMENT AND CONNECTING SERVICES. ANY INFORMATION REGARDING ACCURATE MEASUREMENT OF THE BUILDING ARE TO BE TAKEN AT THE SITE. DO NOT SCALE THE DRAWINGS, AND DO NOT USE THE DRAWINGS FOR PREFABRICATION WORK.
- FOR CLARITY, NOT ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC. HAS BEEN SHOWN ON THE DRAWINGS. THE EXISTING EQUIPMENT, PIPES, DUCTS AND SERVICES ARE SHOWN FOR REFERENCE ONLY. EXACT LOCATIONS, SIZES AND DIMENSIONS SHALL BE DETERMINED ON SITE, WHERE INTERFERENCES EXIST. CONTRACTOR SHALL REROUTE THE NEW WORK TO SUIT THE EXISTING PIPING.
- NOT ALL CONNECTIONS TO EQUIPMENT ARE SHOWN. REFER TO THE MANUFACTURERS LITERATURE FOR ALL PIPING CONNECTIONS.
- CONTRACTOR IS TO BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL DUCTWORK, PIPING AND EQUIPMENT AS SHOWN ON THE DEMOLITION PLAN.
- SURVEY ALL AFFILIATED WORK AREAS AND REPORT ABNORMALITIES AND DISCREPANCIES TO CONSULTANT.
- WHERE CEILING, FLOOR, WALL OR ROOF OPENINGS ARE REQUIRED TO RUN MECHANICAL AND ELECTRICAL SERVICES, INCLUDE ALL COSTS FOR REINSTATING THE CEILING, FLOOR, WALL, OR ROOF. SEAL ALL OPENINGS WITH APPROVED FIRE STOPPING MATERIALS AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- IF ASBESTOS CONTAINING MATERIAL IS SUSPECTED OR IDENTIFIED IN THE WORK AREA AND REQUIRED TO BE HANDLED AS PART OF THE DEMOLITION PHASE OF THE PROJECT, CONTRACTOR SHALL HALT WORK AND INFORM CONSULTANT OF SUCH CONDITIONS. CONTRACTOR SHALL NOT PROCEED WITH DEMOLITION OF SUCH AREAS WITHOUT AUTHORIZATION BY CONSULTANT. REMOVAL OF SUCH MATERIALS TO ACCOMMODATE THE WORK DESCRIBED AND OUTLINED IN THESE DRAWINGS SHALL BE ARRANGED THROUGH THE OWNER. ASBESTOS ABATEMENT, IF ANY, IS EXCLUDED FROM THIS CONTRACT AND WILL BE HANDLED SEPARATELY BY OWNER.
- ALL ABANDONED OR OBSOLETE MECHANICAL SERVICES SUCH AS VALVES, PIPING, EQUIPMENT, INSTRUMENTATION, ETC. SHALL BE REMOVED WITHIN THE WORK AREA TO FACILITATE ALL NEW MECHANICAL WORK. CAP AND SEAL ALL REDUNDANT DUCT OPENINGS.
- INSULATE ALL NEW DUCTWORK AND ANY EXISTING DUCTWORK WHERE INSULATION HAS BEEN REMOVED OR DAMAGED BY THIS WORK. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR TO ALLOW FOR TEMPORARY REMOVAL OF EXISTING SERVICES LOCATED AT THE EXISTING WALL WHERE THE ADDITION IS BEING INSTALLED.
- PROVIDE FIRE STOPPING ON MECHANICAL SERVICES PENETRATING FIRE RATED PARTITION AS PER MECHANICAL SPECIFICATIONS.

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
GENERAL	
	EXISTING TO REMAIN
	EXISTING TO BE DEMOLISHED
	EXISTING TO BE REMOVED FOR RELOCATION
	EXISTING RELOCATED IN NEW WORK
	NEW WORK
	CONNECT TO EXISTING
	AIRFLOW / PIPE FLOW DIRECTION
	PIPE TURNING DOWN
	PIPE TURNING UP
	PRESSURE REDUCING VALVE
	ROOM THERMOSTAT
	ROOM HUMIDISTAT
	PUMP
	AUTOMATIC CONTROL VALVE - TWO WAY
	AUTOMATIC CONTROL VALVE - THREE WAY
	ISOLATION VALVE
	BALANCING VALVE
	CHECK VALVE
	STRAINER - OVER 50MM WITH VALVED FLUSHING DRAIN
	PIPE BRANCH OFF TOP
	PIPE BRANCH OFF BOTTOM
	RELIEF VALVE (PIPE TO DRAIN)
	VACUUM BREAKER VALVE
	VENTURI VALVE
	PRESSURE GAUGE
	STAINLESS STEEL BRAIDED FLEXIBLE HOSES
	CAP
	SOLENOID VALVE
	SOLENOID VALVE
	FUSIBLE LINK VALVE
	ELECTRIC HEAT TRACING

GENERAL NOTES - HVAC

- ALL MECHANICAL SERVICES SHOWN IN THIS DRAWING ARE TO REMAIN UNLESS NOTED OTHERWISE.
- ALL EXISTING DUCTWORK TO REMAIN UNLESS NOTED OTHERWISE. REPLACE BROKEN, CRUSHED, OR DAMAGED DUCTS WITH NEW.
- REFER TO SPECIFICATIONS FOR RESTRICTED HOURS. RESTRICTED HOURS MAY VARY DEPENDING ON ACTIVITY AND LOCATION.
- SEQUENCE MECHANICAL AND ELECTRICAL WORK TO SUIT EACH PHASE. INCLUDE ALL TEMPORARY SERVICES REQUIRED TO COMPLETE WORK IN EACH PHASE AND TO MAINTAIN EXISTING SERVICES OPERATIONAL IN ADJACENT OCCUPIED AREAS.
- COORDINATE ALL WORK THAT EXTENDS BEYOND WORK BOUNDARY WITH OWNER AS REQUIRED.
- CONTRACTOR TO PROVIDE MINIMUM 24-HRS SHUT-DOWN NOTICE TO THE SCHOOL BOARD AND OBTAIN SIGN-OFF FROM THE SCHOOL BOARD PRIOR TO THE SHUTDOWN OF ANY SYSTEMS OR SERVICE.

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
PLUMBING	
	SANITARY DRAINAGE - ABOVE GROUND
	SANITARY DRAINAGE - UNDERGROUND
	SANITARY DRAINAGE (ACID RESISTANT) - ABOVE GROUND
	SANITARY DRAINAGE (ACID RESISTANT) - UNDERGROUND
	STORM DRAINAGE - ABOVE GROUND
	STORM DRAINAGE - UNDERGROUND
	PUMPED DISCHARGE
	DOMESTIC COLD WATER SUPPLY
	DOMESTIC HOT WATER SUPPLY
	DOMESTIC HOT WATER RECIRC.
	TEMPERED WATER
	ACID RESISTANT VENT
	VENT
	GAS
	REVERSE OSMOSIS PIPING
	RADIO ISOTOPE DRAIN
	COMPRESSED AIR
	HEAT TRACING
	RUNNING TRAP
	P-TRAP
	EMERGENCY SHOWER
	EYE WASH
	CLEANOUT IN FLOOR/BELOW GRADE
	CLEANOUT IN CEILING
	HOSE BIBB
	NON FREEZE HOSE BIBB
	SINGLE GAS OUTLET
	DOUBLE GAS OUTLET
	COMPRESSED AIR OUTLET
	ROOF DRAIN
	CONTROL FLOW ROOF DRAIN
	VENT THROUGH ROOF
	RAIN WATER LEADER
	TRAP SEAL PRIME
	SCUPPER DRAIN
	MANHOLE
	CATCH BASIN
	TRENCH GRATE & FRAME
	AREA DRAIN
	FUNNEL FLOOR DRAIN
	FLOOR DRAIN
	HUB DRAIN
	FLOOR SINK
	TERRACE DECK DRAIN
	FLOOR DRAIN - FLUSHING RIM
	WATER METER ASSEMBLY
	GAS METER
	BACK WATER VALVE
	BACKFLOW PREVENTER
	DENOTES FIXTURE TYPE PER SPECIFICATION
	DENOTES FIXTURE TYPE PER SPECIFICATION

GENERAL NOTES - PLUMBING

- ALL MECHANICAL SERVICES SHOWN IN THIS DRAWING ARE TO REMAIN UNLESS NOTED OTHERWISE.
- CONTRACTOR TO VERIFY EXACT LOCATION AND SIZES OF EXISTING SERVICES. COORDINATE WITH BASE BUILDING BEFORE COMMENCEMENT OF WORK.
- CONTRACTOR TO INCLUDE FOR ANY SYSTEM DRAINING OR PIPE FREEZING REQUIRED TO FACILITATE REPLACEMENT OF ISOLATION VALVES.
- PROVIDE MAIN SHUTOFF FOR PLUMBING IN EACH WASHROOM WITH ACCESS PANEL.

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
VENTILATION	
	FUSIBLE LINK FIRE DAMPER
	SMOKE DAMPER
	COMBINATION SMOKE/FIRE DAMPER
	BACK DRAFT DAMPER
	BALANCING DAMPER
	MOTORIZED DAMPER
	RECTANGULAR DUCTWORK - DIMENSION AS SHOWN
	ROUND DUCTWORK - DIMENSION AS SHOWN
	RECTANGULAR SUPPLY DUCT UP
	RECTANGULAR EXHAUST/RETURN DUCT UP
	CIRCULAR SUPPLY/OUTDOOR AIR DUCT UP
	CIRCULAR EXHAUST/RETURN AIR DUCT UP
	RECTANGULAR SUPPLY DUCT DOWN
	RECTANGULAR EXHAUST/RETURN DUCT DOWN
	CIRCULAR SUPPLY/OUTDOOR AIR DUCT DOWN
	CIRCULAR EXHAUST/RETURN AIR DUCT DOWN
	MITRED ELBOW WITH TURNING VANES
	SUPPLY GRILLE - DIMENSIONS SHOWN ON SCHEDULE
	EXHAUST/RETURN GRILLE - DIMENSIONS SHOWN ON SCHEDULE
	CEILING SUPPLY AIR DIFFUSER - DIMENSIONS SHOWN ON SCHEDULE
	SUPPLY AIR LINEAR SLOT DIFFUSER - DIMENSIONS SHOWN ON SCHEDULE
	CEILING EXHAUST/RETURN GRILLE - DIMENSIONS SHOWN ON SCHEDULE
	SUPPLY AIR ROUND DIFFUSER
	BRANCH TAKE-OFF WITH ADJUSTABLE SPLITTER DAMPER IN SUPPLY DUCT
	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH DIRECTION AS SHOWN
	FLEXIBLE DUCT CONNECTION
	ACOUSTICALLY LINED DUCTWORK
	SILENCER (ATTENUATOR)
	FLEXIBLE DUCT (DOUBLE LINE)
	FLEXIBLE DUCT (SINGLE LINE)
	FLEXIBLE DUCT CONNECTION WITH BALANCING DAMPER ON TAKE-OFF
	DUCT MOUNTED HEATING COIL
	SUPPLY AIR TERMINAL BOX C/W REHEAT COIL AND ATTENUATOR.
	SUPPLY AIR TERMINAL BOX C/W ATTENUATOR.
	RETURN / EXHAUST AIR TERMINAL BOX ATTENUATOR.
	FIRE RATED DUCTWORK (DOUBLE LINE)
	DUCT TRANSITION FROM RECTANGULAR TO ROUND
	RECTANGULAR DUCT BREAK
	ROUND DUCT BREAK
	SINGLE LINE DUCT BREAK
	3/4" DOOR UNDERCUT
	TRANSFER AIR DUCT
	SUPPLY AIR LIGHT TROFFER
	3/4" DOOR UNDERCUT
	DIFFUSER TAG
	GRILLE TAG

THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
HEATING & COOLING	
	HEATING WATER RETURN
	HEATING WATER SUPPLY
	HEATING GLYCOL RETURN
	HEATING GLYCOL SUPPLY
	HIGH TEMPERATURE HEATING WATER RETURN
	HIGH TEMPERATURE HEATING WATER SUPPLY
	HIGH TEMPERATURE HEATING GLYCOL RETURN
	HIGH TEMPERATURE HEATING GLYCOL SUPPLY
	CONDENSER WATER RETURN
	CONDENSER WATER SUPPLY
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED GLYCOL RETURN
	CHILLED GLYCOL SUPPLY
	CONDENSATE DRAIN
	PUMPED CONDENSATE
	REFRIGERANT GAS
	REFRIGERANT LIQUID
	LOW PRESSURE STEAM
	LOW PRESSURE CONDENSATE
	HIGH PRESSURE STEAM
	HIGH PRESSURE CONDENSATE
	VENT
	STEAM VENT
	GEO-EXCHANGE SUPPLY
	GEO-EXCHANGE RETURN
	FUEL OIL SUPPLY
	FUEL OIL RETURN
	FUEL OIL VENT
	FUEL OIL OVERFLOW
	ELECTRIC BASEBOARD HEATER OUTPUT AS SHOWN (KW)
	ELECTRIC CABINET HEATER
	CABINET HEATER
	UNIT HEATER
	CONVECTOR - LENGTH - HEAT OUTPUT (KW)
	WALL FIN - LENGTH - HEAT OUTPUT (KW)
	UNION
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	EXPANSION COMPENSATOR
	EXPANSION SWING
	PIPE ANCHOR
	PIPE GUIDE
	PIPE SLEEVE
	FLOAT & THERMOSTATIC TRAP
	INVERTED BUCKET TRAP
	ELECTRIC TRACING
	RADIANT PANEL - 8 DENOTES DEPTH, 600MM DENOTES HEIGHT, 1100MM DENOTES LENGTH & 2.1 HEAT OUTPUT (KW)

THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
FIRE PROTECTION	
	SPRINKLER LINE
	FIRE MAIN
	STANDPIPE
	WATER FLOW ALARM
	SUPERVISED VALVE
	PRESSURE SWITCH
	TEST CONNECTION
	SPRINKLER FIRE DEPARTMENT CONNECTION
	PENDENT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	FIRE SUPPRESSION SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	POST-INDICATOR VALVE
	SPRINKLER VALVE CABINET
	FIRE EXTINGUISHER CABINET
	FIRE HOSE CABINET
	FIRE EXTINGUISHER C/W WALL BRACKET
	FIRE HYDRANT C/W SHUT-OFF VALVE
	AIR COMPRESSOR
	PRESSURE SWITCH
	WATER FLOW ALARM
	EXCESS PRESSURE PUMP
	WET ALARM CHECK VALVE
	TEST & DRAIN VALVE
	WATER FLOW ALARM
	PRESSURE SWITCH
	DRY ALARM CHECK VALVE
	TEST & DRAIN VALVE

THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.

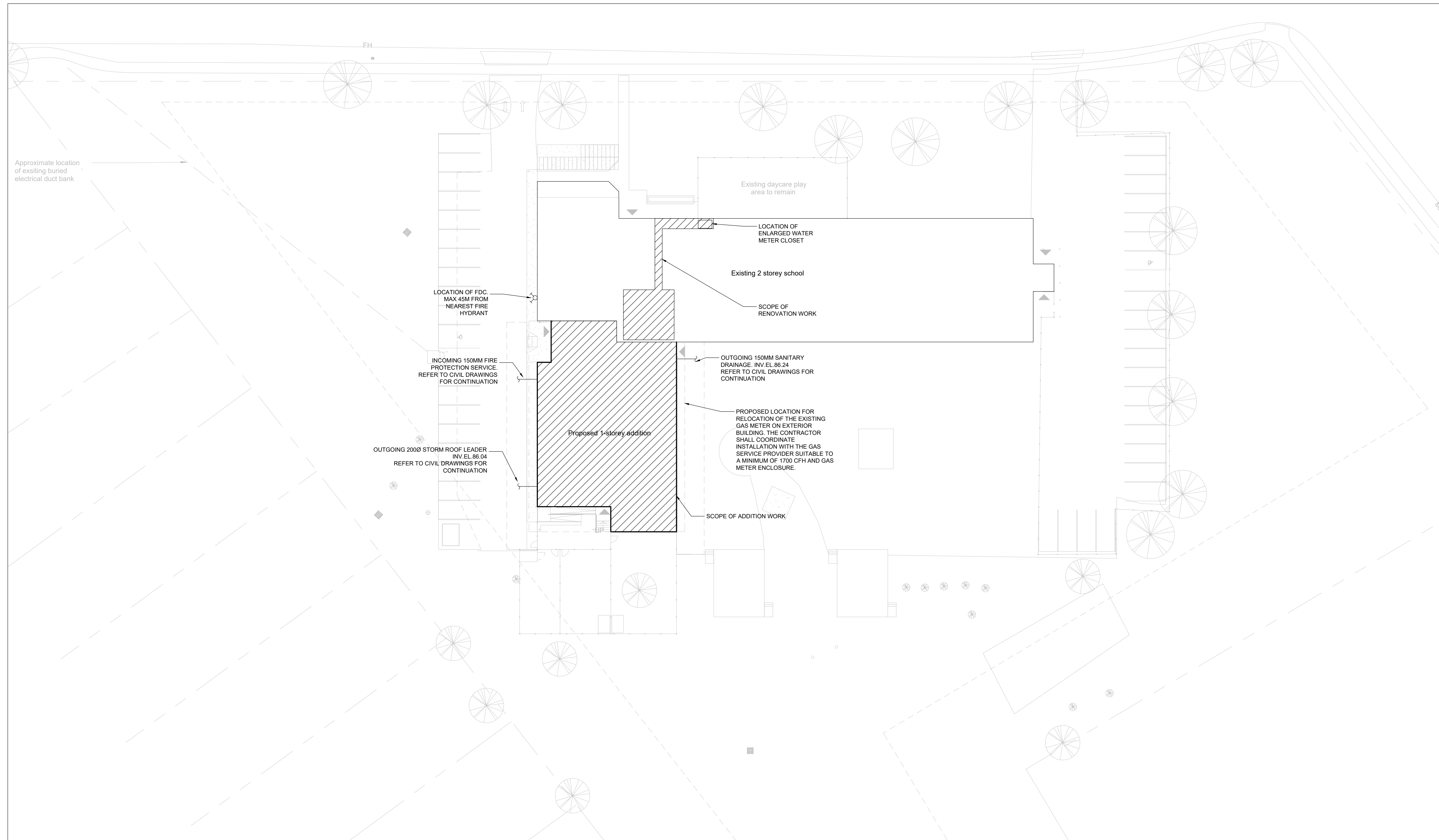
MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
CONTROLS	
	SUPPLY FAN
	RETURN EXHAUST FAN
	EXHAUST FAN
	HEATING COIL
	COOLING COIL
	PRE-HEAT COIL
	FILTERS
	SUPPLY AIR
	EXHAUST AIR
	OUTDOOR AIR
	RETURN AIR
	MOTORIZED DAMPER
	MOTOR STARTER PANEL
	MOTOR CONTROL CENTER
	HUMIDIFIER
	NORMALLY OPEN
	NORMALLY CLOSED
	VARIABLE FREQUENCY DRIVE
	ACTUATOR CLOSED END SWITCH
	ACTUATOR OPEN END SWITCH
	FLOW SWITCH
	LEVEL SWITCH
	PRESSURE SWITCH
	ACTUATOR NORMALLY CLOSED DE-ENERGIZED POSITION
	ACTUATOR NORMALLY OPEN DE-ENERGIZED POSITION
	ACTUATOR FAIL OPEN POSITION
	ACTUATOR FAIL CLOSED POSITION
	ACTUATOR FAIL LAST POSITION
	TWO-POSITION ACTUATOR
	MODULATING ACTUATOR
	PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	VELOCITY SENSOR
	HUMIDITY SENSOR
	TEMPERATURE SENSOR
	OCCUPANCY SENSOR
	CARBON MONOXIDE SENSOR
	NOX SENSOR
	OXYGEN SENSOR
	GAS DETECTION SYSTEM CONTROL PANEL
	VISUAL INDICATOR ALARM
	AUDIBLE INDICATOR ALARM
	BUILDING AUTOMATION SYSTEM
	ANALOG INPUT
	ANALOG OUTPUT
	DIGITAL INPUT
	DIGITAL OUTPUT
	BAS GRAPHICS POINT
	BAS ADJUSTABLE SET POINT
	BACNET BINARY VARIABLE
	HAND-OFF-AUTO
	CONTROL WIRING

THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.

QUASAR CONSULTING GROUP
 250 ROWNTREE DAIRY RD, WOODBRIDGE, ON
 TEL: 905-507-0800
 WEB: WWW.QUASARCG.COM

CSV Renaissance Addition

1226 Lockhart Rd
 Burlington, ON L7S 1H1



Rev	Description	Date
1	Issued for Class C Costing	2022-07-27
2	Issued for Client Review	2022-11-10
3	Issued for 80% CD Review	2023-02-15
4	Issued for Site Plan Application	2023-03-15
5	Issued for Site Plan Application	2023-11-22
6	Issued for 90% CD Review	2024-10-01
7	Issued for Building Permit	2024-12-04
8	Issued for Tender	2025-01-14



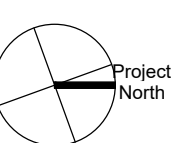
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CSV Renaissance Addition

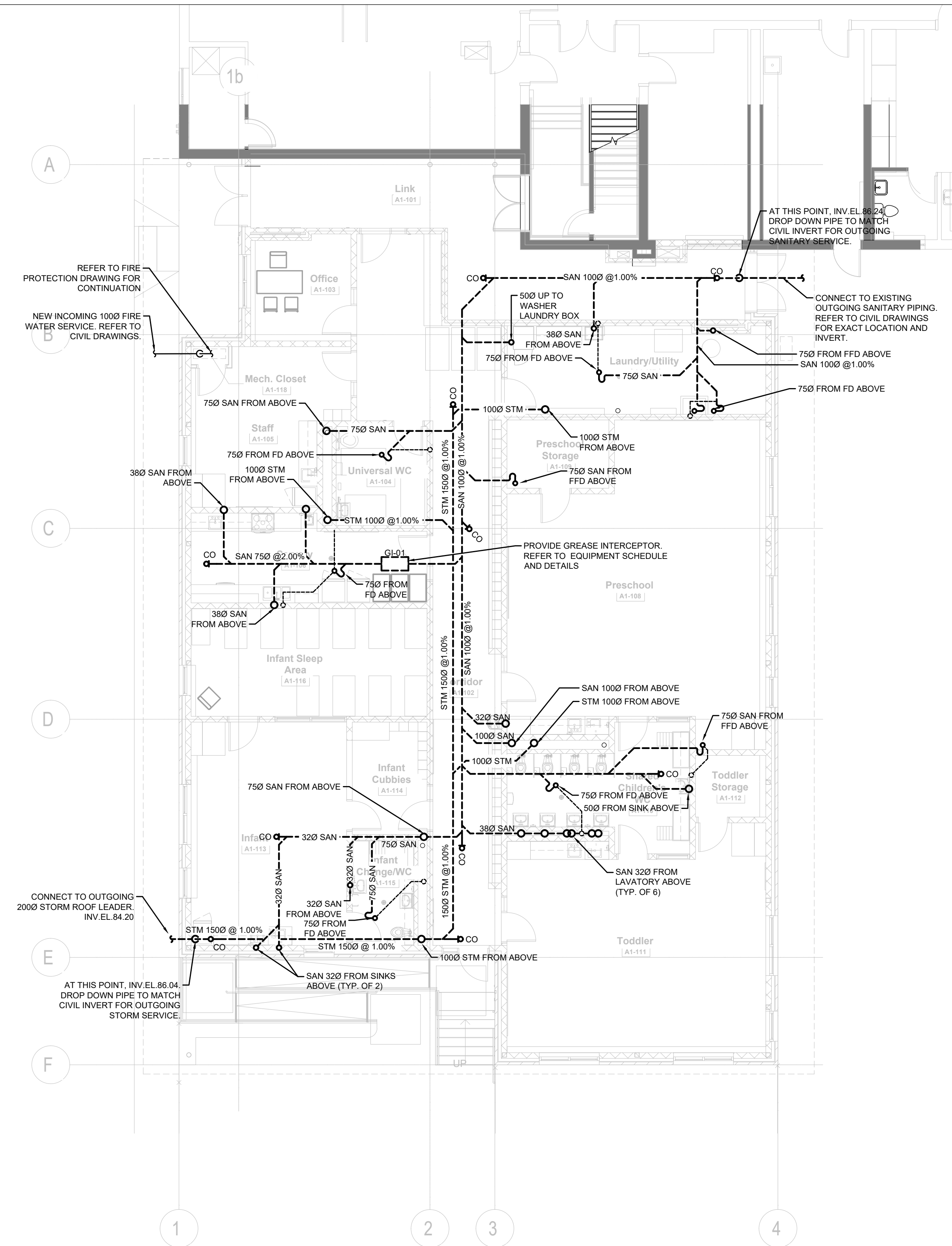
1226 Lockhart Rd
 Burlington, ON L7S 1H1

PROJECT CODE: ED-22-018
 SCALE: AS SHOWN
 DATE: 2022-11-09
 STATUS:

MECHANICAL SITE PLAN



Rev	Description	Date
1	Issued for Class C Costing	2022-07-27
2	Issued for Client Review	2022-11-10
3	Issued for 80% CD Review	2023-02-15
4	Issued for Site Plan Application	2023-03-15
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6	Issued for 90% CD Review	2024-10-01
7	Issued for Building Permit	2024-12-04
8	Issued for Tender	2025-01-14



- GENERAL NOTES**
- MECHANICAL CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS REGARDING SIZE AND LOCATIONS OF BEAMS AND EXPANSION JOINTS.
 - MECHANICAL CONTRACTOR SHALL COORDINATE ALL PIPING AND DUCTWORK WITH STRUCTURAL BEAMS AND PROVIDE SLEEVING AS NECESSARY TO MAINTAIN MINIMUM HEADROOM AS INDICATED ON ARCHITECTURAL DRAWINGS.
 - MECHANICAL CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS AND MAINTAIN MINIMUM HEADROOM AS INDICATED.
 - WALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE ISOLATION VALVES FOR ALL RISERS, BRANCH TAKE OFFS, AND AT EACH FIXTURE.
 - ALL DRAINAGE PIPING SHALL BE 1000 AND SLOPED AT 1% UNLESS NOTED OTHERWISE. ALL DRAINAGE PIPING 750 AND LESS TO BE SLOPED AT 2%. MINIMUM PIPE SIZE IS 120 UNLESS NOTED OTHERWISE.
 - ALL TRAPPED SANITARY DRAINS LOCATED IN UNHEATED SPACE SHALL BE ELECTRICALLY HEAT TRACES AND INSULATED OVER ENTIRE LENGTH.
 - PROVIDE P-TRAPS, VENT TO OUTDOORS AND PRIMING TO ALL FLOOR DRAINS.
 - PROVIDE FULL VENTING SYSTEM IN ACCORDANCE WITH OBC PART 7. COORDINATE ALL VENTS AND TERMINATION POINTS.
 - ALL MOP SINKS, WALL HYDRANTS, HOSE BIBBS TO BE PROVIDED C/W CSA VACUUM BREAKER PER OBC REQUIREMENTS.
 - REFER TO SCHEMATICS FOR GAS, DOMESTIC WATER, SANITARY, VENTING AND STORM RISER DETAILS AND SIZING.
 - REFER TO MECHANICAL SPECIFICATION FOR PLUMBING FIXTURE REQUIREMENTS.

1 PLUMBING - FOUNDATION PLAN
SCALE: 1:100



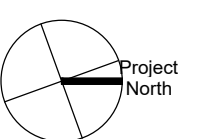
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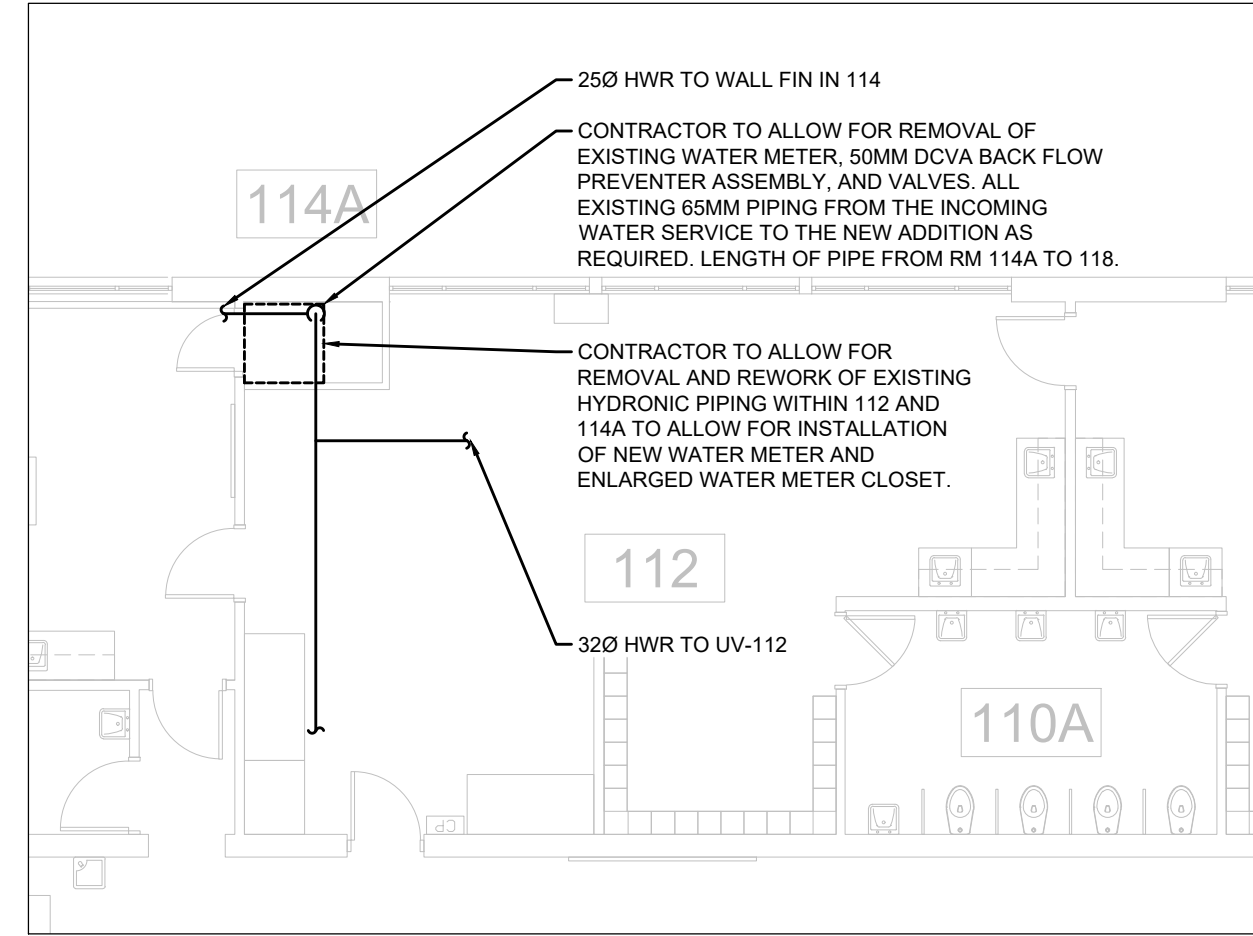
PLUMBING - FOUNDATION PLAN



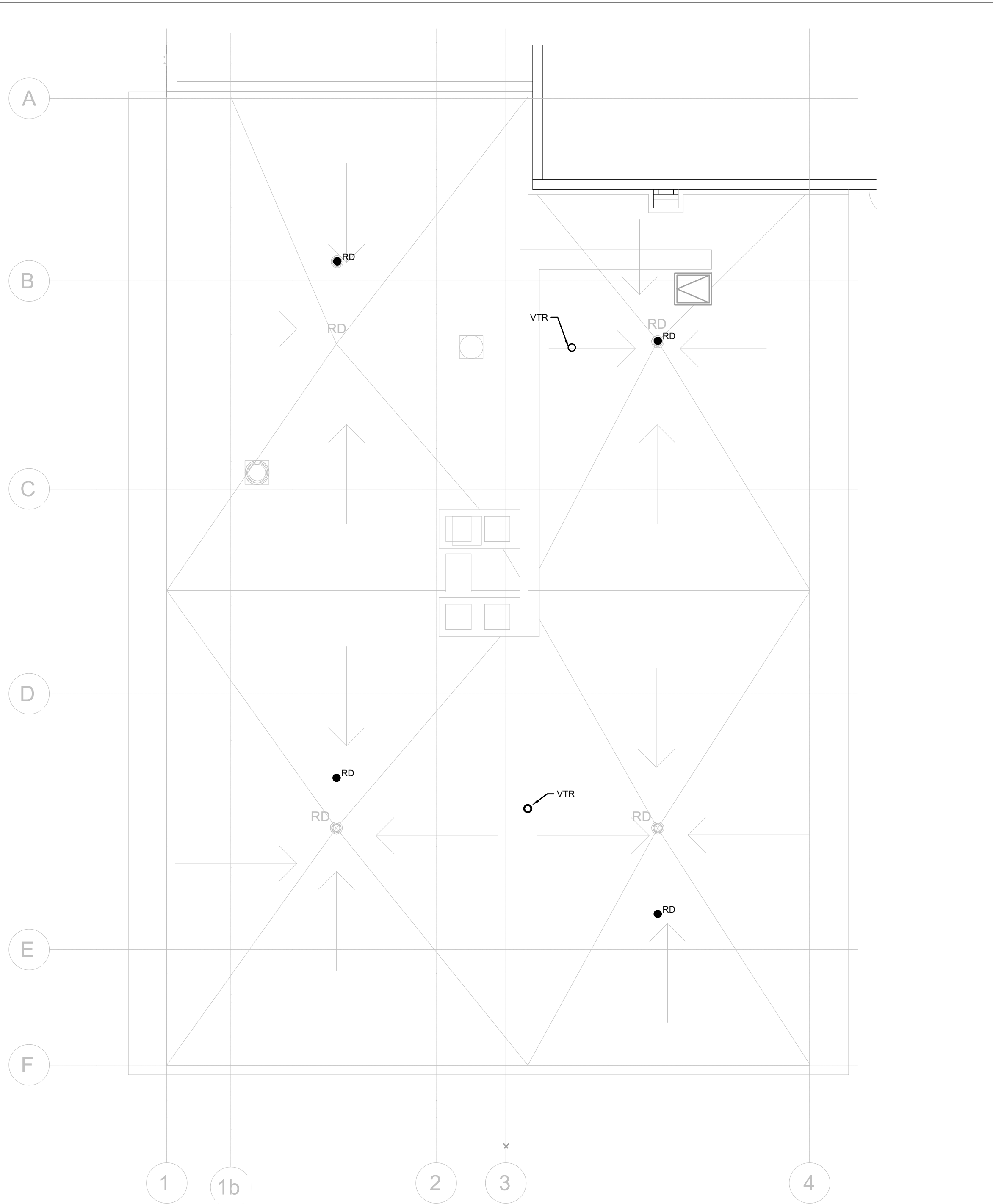
Project North
M2.0
drawing number

GENERAL NOTES

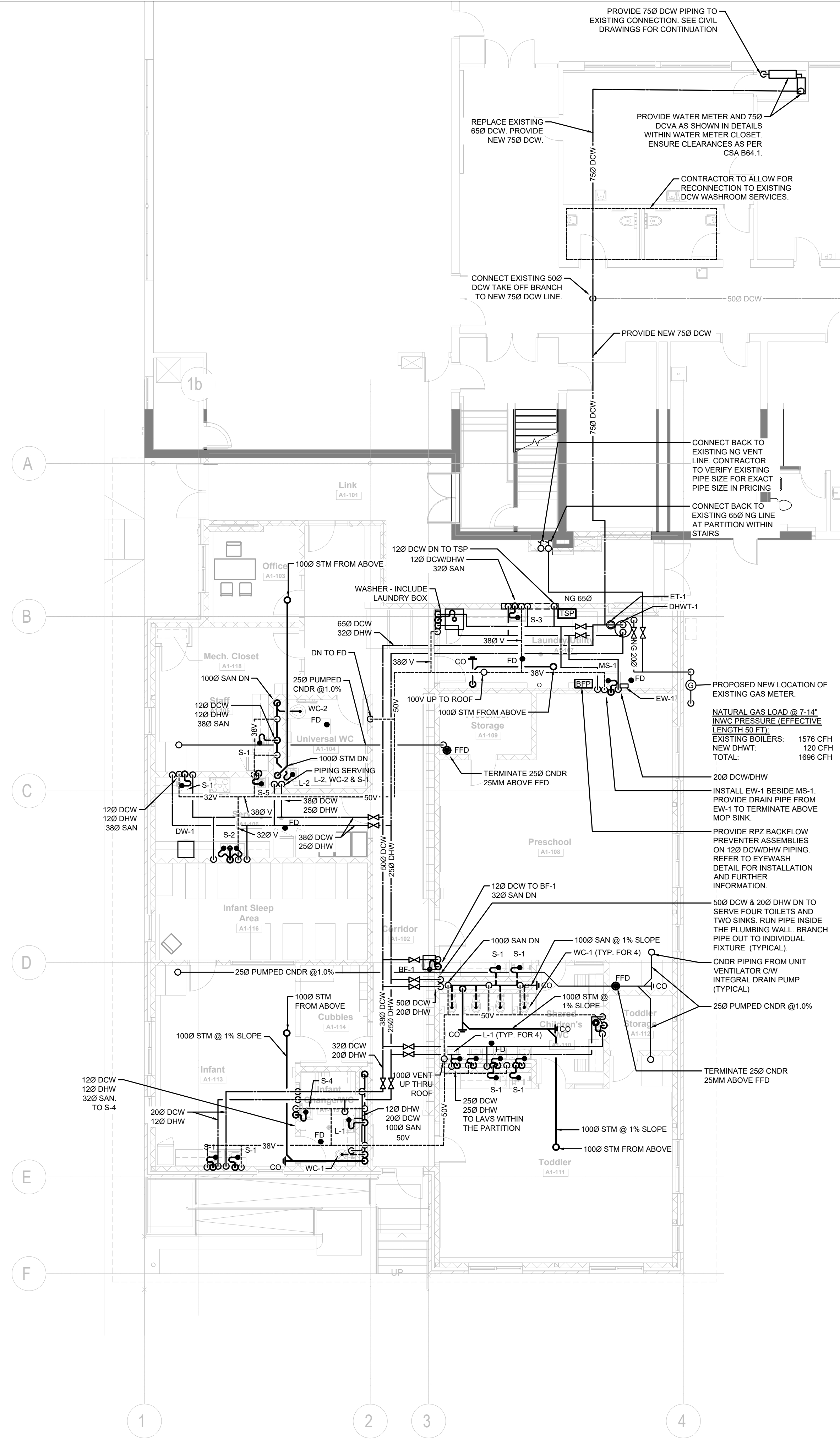
1. MECHANICAL CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS REGARDING SIZE AND LOCATIONS OF BEAMS AND EXPANSION JOINTS.
2. MECHANICAL CONTRACTOR SHALL COORDINATE ALL PIPING AND DUCTWORK WITH STRUCTURAL BEAMS AND PROVIDE SLEEVING AS NECESSARY TO MAINTAIN MINIMUM HEADROOM AS INDICATED ON ARCHITECTURAL DRAWINGS.
3. MECHANICAL CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS AND MAINTAIN MINIMUM HEADROOM AS INDICATED.
4. WALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE ISOLATION VALVES FOR ALL RISERS, BRANCH TAKE OFFS, AND AT EACH FIXTURE.
6. ALL DRAINAGE PIPING SHALL BE 1000 AND SLOPED AT 1% UNLESS NOTED OTHERWISE. ALL DRAINAGE PIPING 750 AND LESS TO BE SLOPED AT 2%. MINIMUM PIPE SIZE IS 120 UNLESS NOTED OTHERWISE.
7. ALL TRAPPED SANITARY DRAINS LOCATED IN UNHEATED SPACE SHALL BE ELECTRICALLY HEAT TRACES AND INSULATED OVER ENTIRE LENGTH.
8. PROVIDE P-TRAPS, VENT TO OUTDOORS AND PRIMING TO ALL FLOOR DRAINS.
9. PROVIDE FULL VENTING SYSTEM IN ACCORDANCE WITH OBC PART 7. COORDINATE ALL VENTS AND TERMINATION POINTS.
10. ALL MOP SINKS, WALL HYDRANTS, HOSE BIBBS TO BE PROVIDED CW CSA VACUUM BREAKER PER OBC REQUIREMENTS.
11. REFER TO SCHEMATICS FOR GAS, DOMESTIC WATER, SANITARY, VENTING AND STORM RISER DETAILS AND SIZING.
12. REFER TO MECHANICAL SPECIFICATION FOR PLUMBING FIXTURE REQUIREMENTS.



3 WATER METER RM - GROUND FLOOR - DEMO
SCALE: 1:100



2 PLUMBING - ROOF PLAN
SCALE: 1:100



1 PLUMBING - GROUND FLOOR PLAN
SCALE: 1:100

Rev	Description	Date
1	Issued for Class C Costing	2022-07-27
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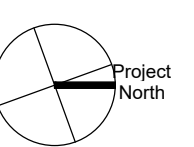


CSV Renaissance Addition

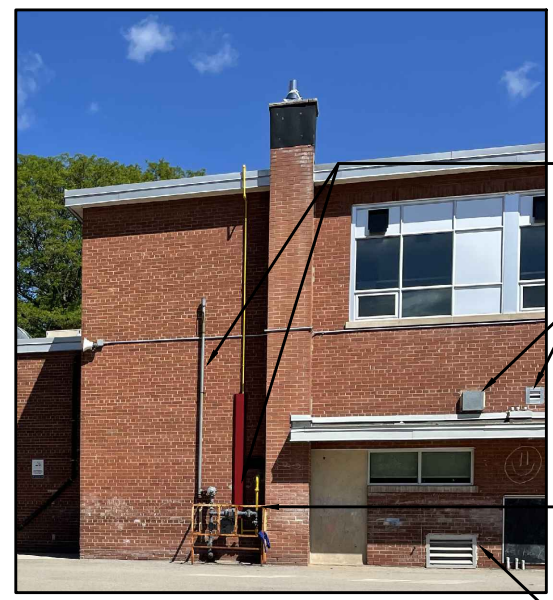
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Burlington, ON L7S 1H1

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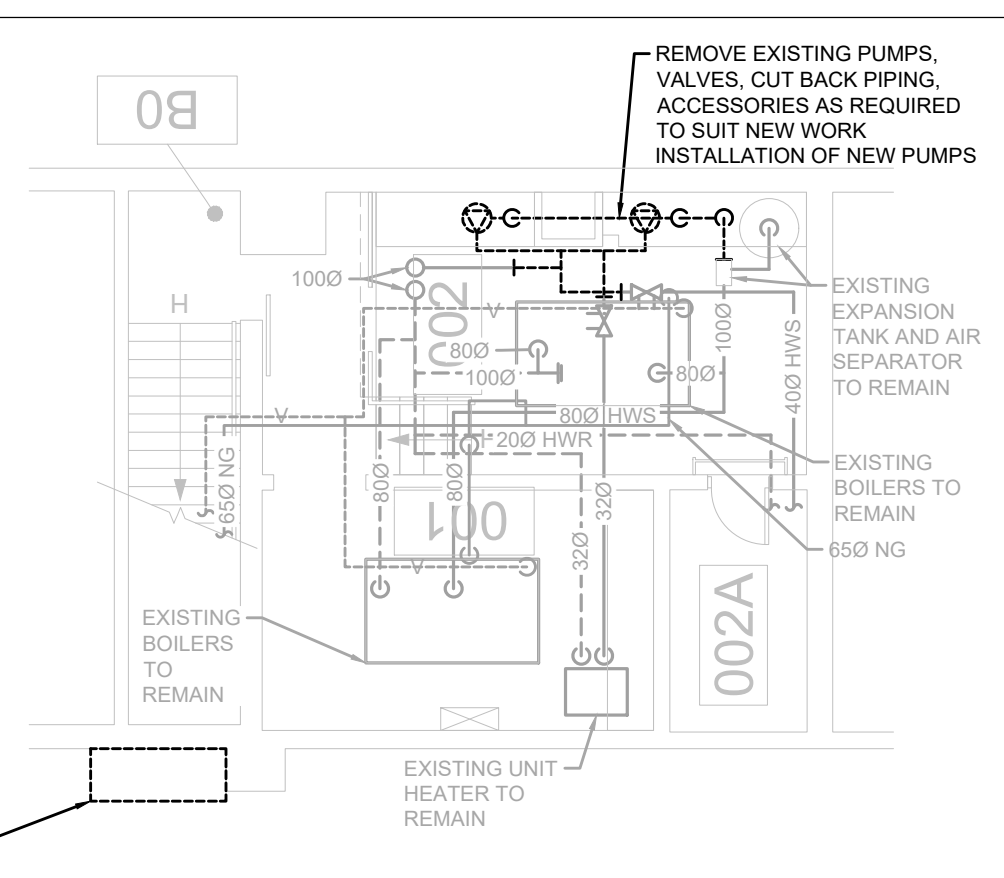
PLUMBING - GROUND & ROOF PLAN



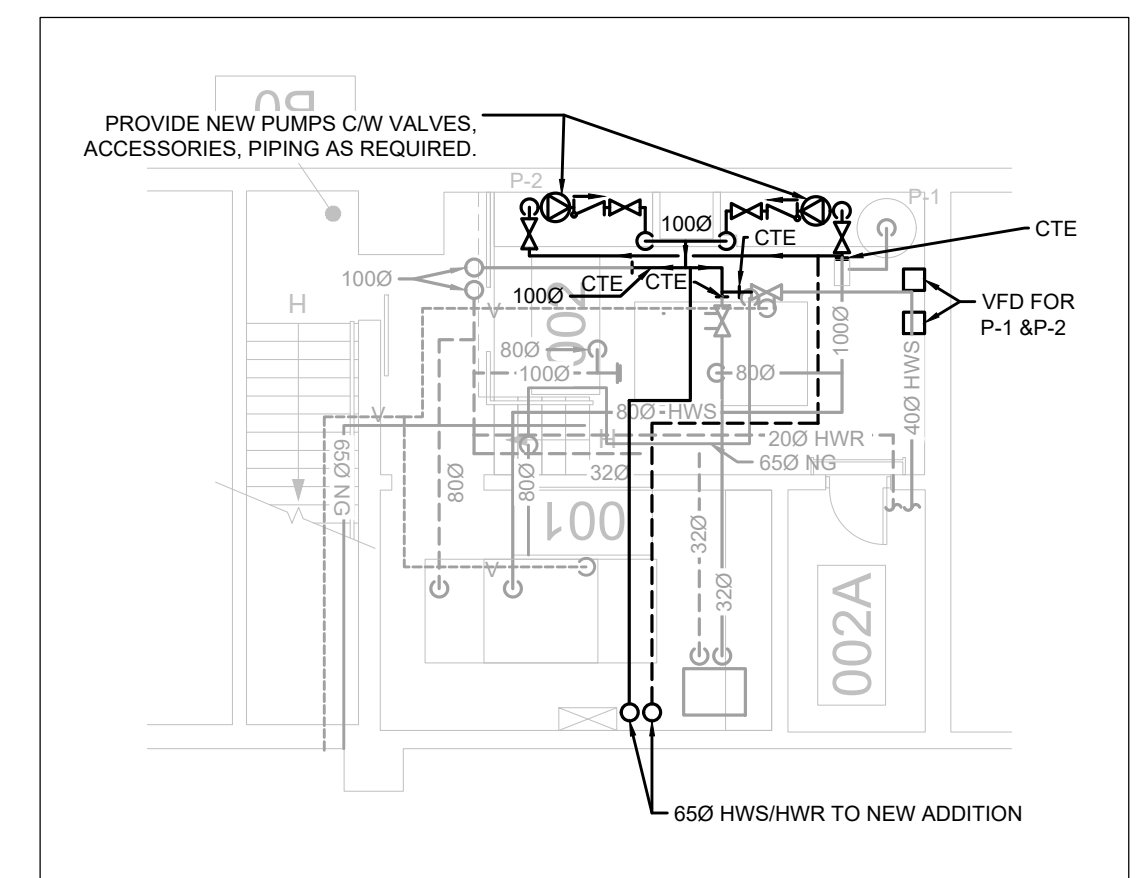
Project
North
M2.1



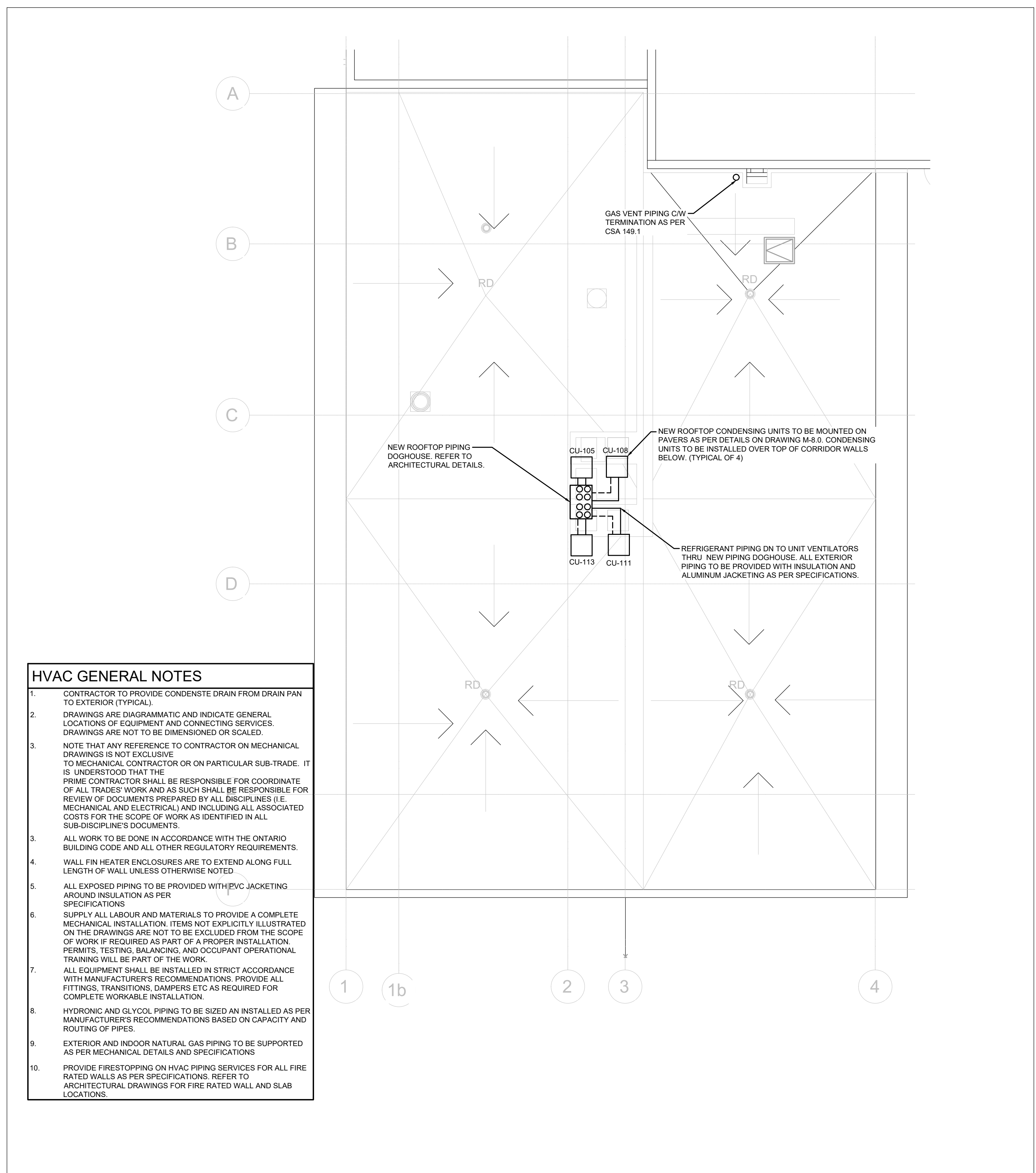
- REMOVE EXISTING GAS VENT PIPING AND GAS PIPING AS INDICATED. INCLUDE FOR REMOVAL OF REDUNDANT GAS PIPING ON ROOF.
- CONTRACTOR TO INCLUDE FOR REMOVAL OF EXISTING LOUVER AND EXISTING SERVICES AS REQUIRED. INCLUDE FOR ADDITIONAL DUCT DISTRIBUTION TO ROUTE UP THROUGH THE ADDITION ROOF.
- REMOVE AND RELOCATE EXISTING GAS METER, PIPING, ACCESSORIES. CONTRACTOR TO COORDINATE WITH GAS UTILITY AS REQUIRED.
- REMOVE EXISTING LOUVER TO SUIT NEW WORK. REFER TO M4.1 VENTILATION DRAWING.
- APPROXIMATE LOCATION OF EXISTING GAS METER



4 HVAC PIPING - BOILER ROOM - DEMOLITION
SCALE: 1:100

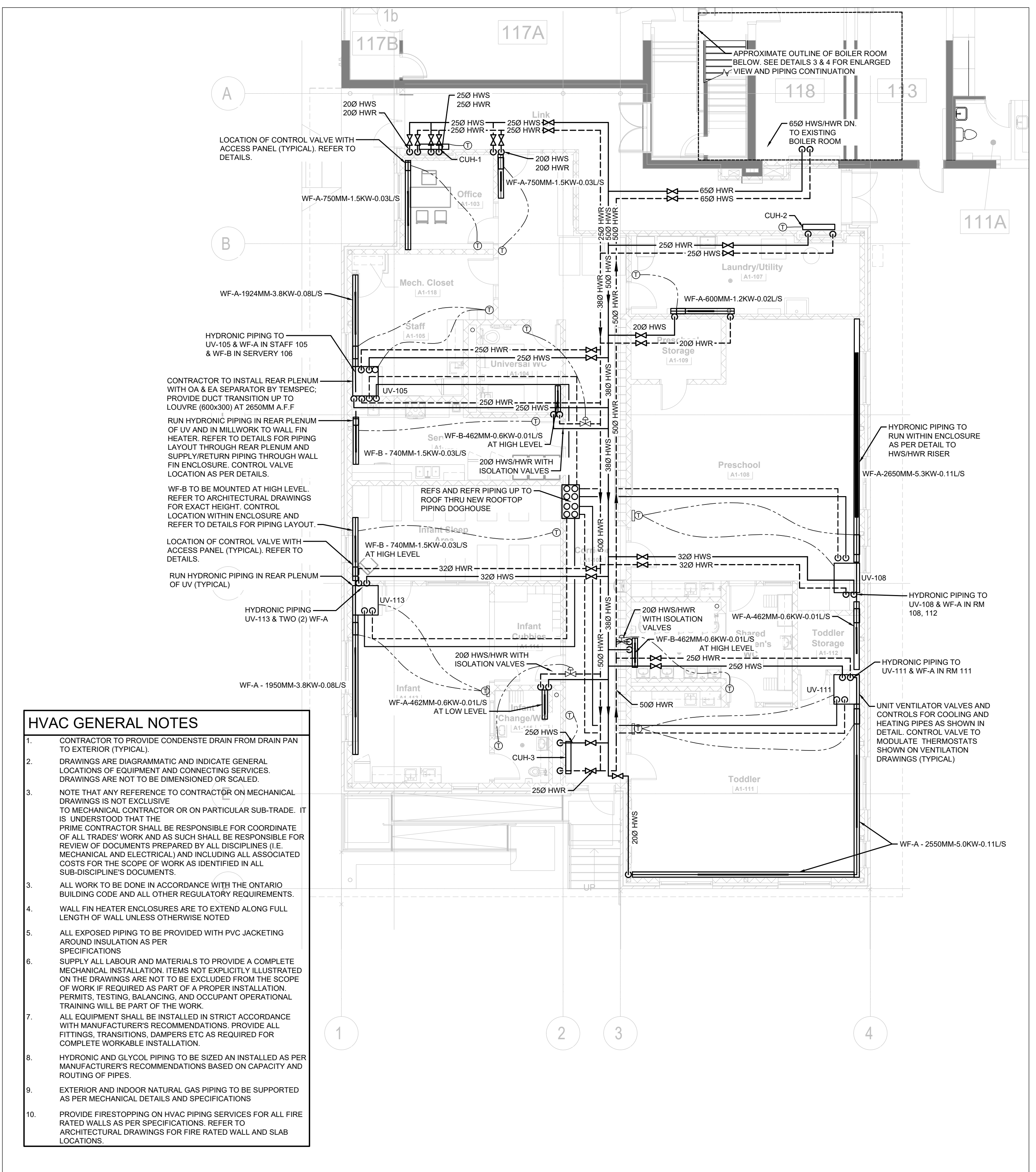


3 HVAC PIPING - BOILER ROOM - NEW WORK
SCALE: 1:100



- ### HVAC GENERAL NOTES
- CONTRACTOR TO PROVIDE CONDENSATE DRAIN FROM DRAIN PAN TO EXTERIOR (TYPICAL).
 - DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LOCATIONS OF EQUIPMENT AND CONNECTING SERVICES. DRAWINGS ARE NOT TO BE DIMENSIONED OR SCALED.
 - NOTE THAT ANY REFERENCE TO CONTRACTOR ON MECHANICAL DRAWINGS IS NOT EXCLUSIVE TO MECHANICAL CONTRACTOR OR ON PARTICULAR SUB-TRADE. IT IS UNDERSTOOD THAT THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATE OF ALL TRADES' WORK AND AS SUCH SHALL BE RESPONSIBLE FOR REVIEW OF DOCUMENTS PREPARED BY ALL DISCIPLINES (I.E. MECHANICAL AND ELECTRICAL) AND INCLUDING ALL ASSOCIATED COSTS FOR THE SCOPE OF WORK AS IDENTIFIED IN ALL SUB-DISCIPLINE'S DOCUMENTS.
 - ALL WORK TO BE DONE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND ALL OTHER REGULATORY REQUIREMENTS.
 - WALL FIN HEATER ENCLOSURES ARE TO EXTEND ALONG FULL LENGTH OF WALL UNLESS OTHERWISE NOTED.
 - ALL EXPOSED PIPING TO BE PROVIDED WITH PVC JACKETING AROUND INSULATION AS PER SPECIFICATIONS.
 - SUPPLY ALL LABOUR AND MATERIALS TO PROVIDE A COMPLETE MECHANICAL INSTALLATION. ITEMS NOT EXPLICITLY ILLUSTRATED ON THE DRAWINGS ARE NOT TO BE EXCLUDED FROM THE SCOPE OF WORK IF REQUIRED AS PART OF A PROPER INSTALLATION. PERMITS, TESTING, BALANCING, AND OCCUPANT OPERATIONAL TRAINING WILL BE PART OF THE WORK.
 - ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS ETC AS REQUIRED FOR COMPLETE WORKABLE INSTALLATION.
 - HYDRONIC AND GLYCOL PIPING TO BE SIZED AN INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS BASED ON CAPACITY AND ROUTING OF PIPES.
 - EXTERIOR AND INDOOR NATURAL GAS PIPING TO BE SUPPORTED AS PER MECHANICAL DETAILS AND SPECIFICATIONS.
 - PROVIDE FIRESTOPPING ON HVAC PIPING SERVICES FOR ALL FIRE RATED WALLS AS PER SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALL AND SLAB LOCATIONS.

2 HVAC PIPING - ROOF PLAN NEW WORK
SCALE: 1:100



- ### HVAC GENERAL NOTES
- CONTRACTOR TO PROVIDE CONDENSATE DRAIN FROM DRAIN PAN TO EXTERIOR (TYPICAL).
 - DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LOCATIONS OF EQUIPMENT AND CONNECTING SERVICES. DRAWINGS ARE NOT TO BE DIMENSIONED OR SCALED.
 - NOTE THAT ANY REFERENCE TO CONTRACTOR ON MECHANICAL DRAWINGS IS NOT EXCLUSIVE TO MECHANICAL CONTRACTOR OR ON PARTICULAR SUB-TRADE. IT IS UNDERSTOOD THAT THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATE OF ALL TRADES' WORK AND AS SUCH SHALL BE RESPONSIBLE FOR REVIEW OF DOCUMENTS PREPARED BY ALL DISCIPLINES (I.E. MECHANICAL AND ELECTRICAL) AND INCLUDING ALL ASSOCIATED COSTS FOR THE SCOPE OF WORK AS IDENTIFIED IN ALL SUB-DISCIPLINE'S DOCUMENTS.
 - ALL WORK TO BE DONE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND ALL OTHER REGULATORY REQUIREMENTS.
 - WALL FIN HEATER ENCLOSURES ARE TO EXTEND ALONG FULL LENGTH OF WALL UNLESS OTHERWISE NOTED.
 - ALL EXPOSED PIPING TO BE PROVIDED WITH PVC JACKETING AROUND INSULATION AS PER SPECIFICATIONS.
 - SUPPLY ALL LABOUR AND MATERIALS TO PROVIDE A COMPLETE MECHANICAL INSTALLATION. ITEMS NOT EXPLICITLY ILLUSTRATED ON THE DRAWINGS ARE NOT TO BE EXCLUDED FROM THE SCOPE OF WORK IF REQUIRED AS PART OF A PROPER INSTALLATION. PERMITS, TESTING, BALANCING, AND OCCUPANT OPERATIONAL TRAINING WILL BE PART OF THE WORK.
 - ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS ETC AS REQUIRED FOR COMPLETE WORKABLE INSTALLATION.
 - HYDRONIC AND GLYCOL PIPING TO BE SIZED AN INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS BASED ON CAPACITY AND ROUTING OF PIPES.
 - EXTERIOR AND INDOOR NATURAL GAS PIPING TO BE SUPPORTED AS PER MECHANICAL DETAILS AND SPECIFICATIONS.
 - PROVIDE FIRESTOPPING ON HVAC PIPING SERVICES FOR ALL FIRE RATED WALLS AS PER SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALL AND SLAB LOCATIONS.

1 HVAC PIPING - GROUND FLOOR PLAN
SCALE: 1:100

Rev	Description	Date
1	Issued for Class C Costing	2022-07-27
2	Issued for Client Review	2022-11-10
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7	Issued for Building Permit	2024-12-04
8	Issued for Tender	2025-01-14



CSV Renaissance Addition

1226 Lockhart Rd
Burlington, ON L7S 1H1

PROJECT CODE: ED-22-018
DATE: 2022-11-09

SCALE: AS SHOWN
STATUS:

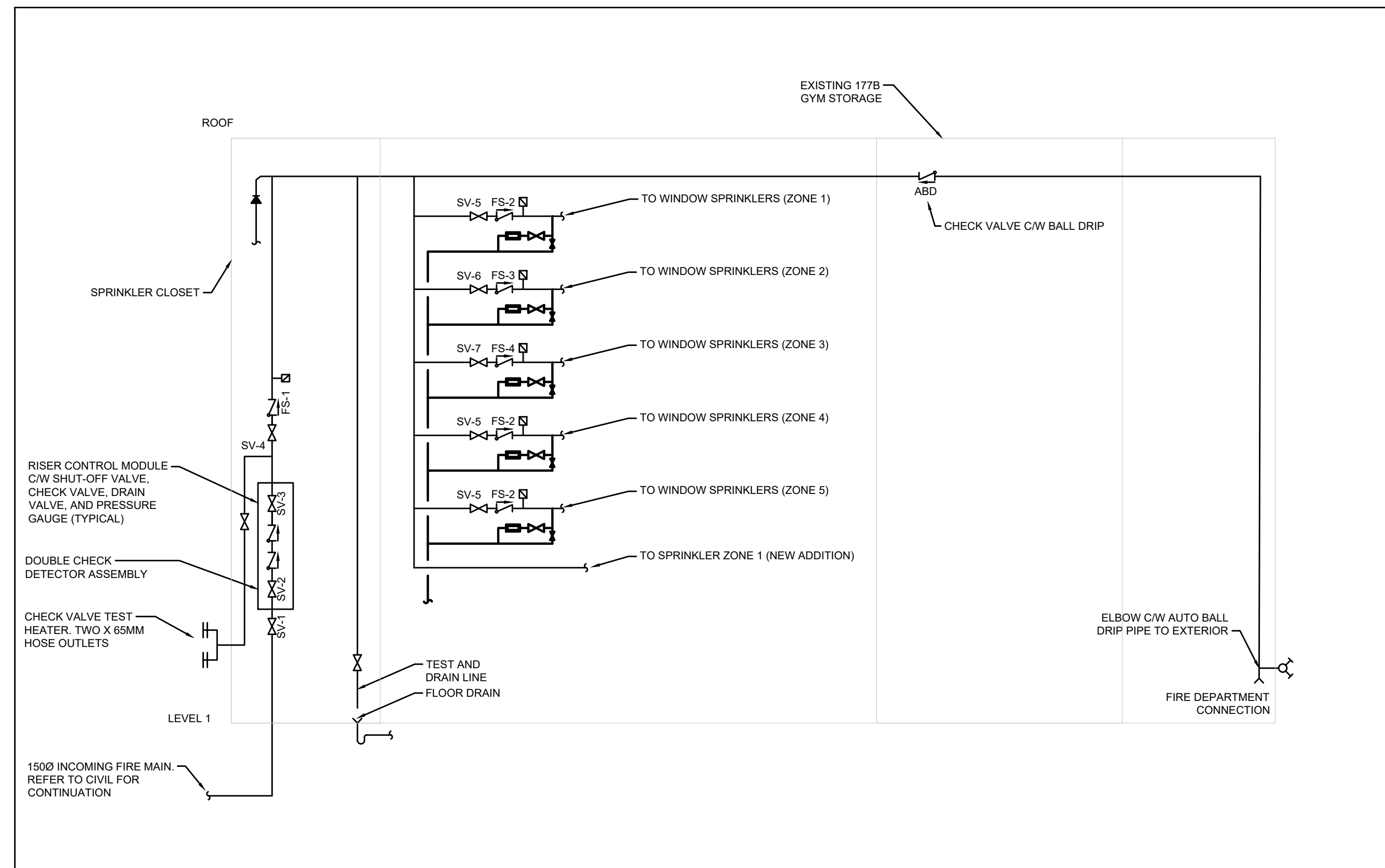
HVAC PIPING - GROUND FLOOR PLAN



SUPERVISED VALVE SCHEDULE

VALVE NO.	VALVE LOCATION	SERVICE
SV-1	INCOMING SPRINKLER CLOSET	SPRINKLER BUILDING ISOLATION
SV-2	INCOMING SPRINKLER CLOSET	SPRINKLER DOUBLE CHECK ISOLATION
SV-3	INCOMING SPRINKLER CLOSET	SPRINKLER DOUBLE CHECK ISOLATION
SV-4	INCOMING SPRINKLER CLOSET	CHECK ISOLATION

- NOTES:
- VERTICAL BACKFLOW PREVENTION ASSEMBLY INSTALLATION ONLY PERMITTED PER LISTING.
 - PIPE UPSTREAM OF BACKFLOW PREVENTION SHALL BE DUCTILE IRON.
 - CONTRACTOR SHALL PROVIDE PROVISIONS FOR TESTING THE DOUBLE CHECK VALVE ASSEMBLY TO ACCOMMODATE THE LARGEST SYSTEM DEMAND.
 - FIRE DEPARTMENT DRY PIPE TO EXTERIOR SHALL BE GALVANIZED. VALVES AND GAUGES SHALL BE INSTALLED WITHIN ACCESSIBLE HEIGHT (MAX 1.8M AFF).



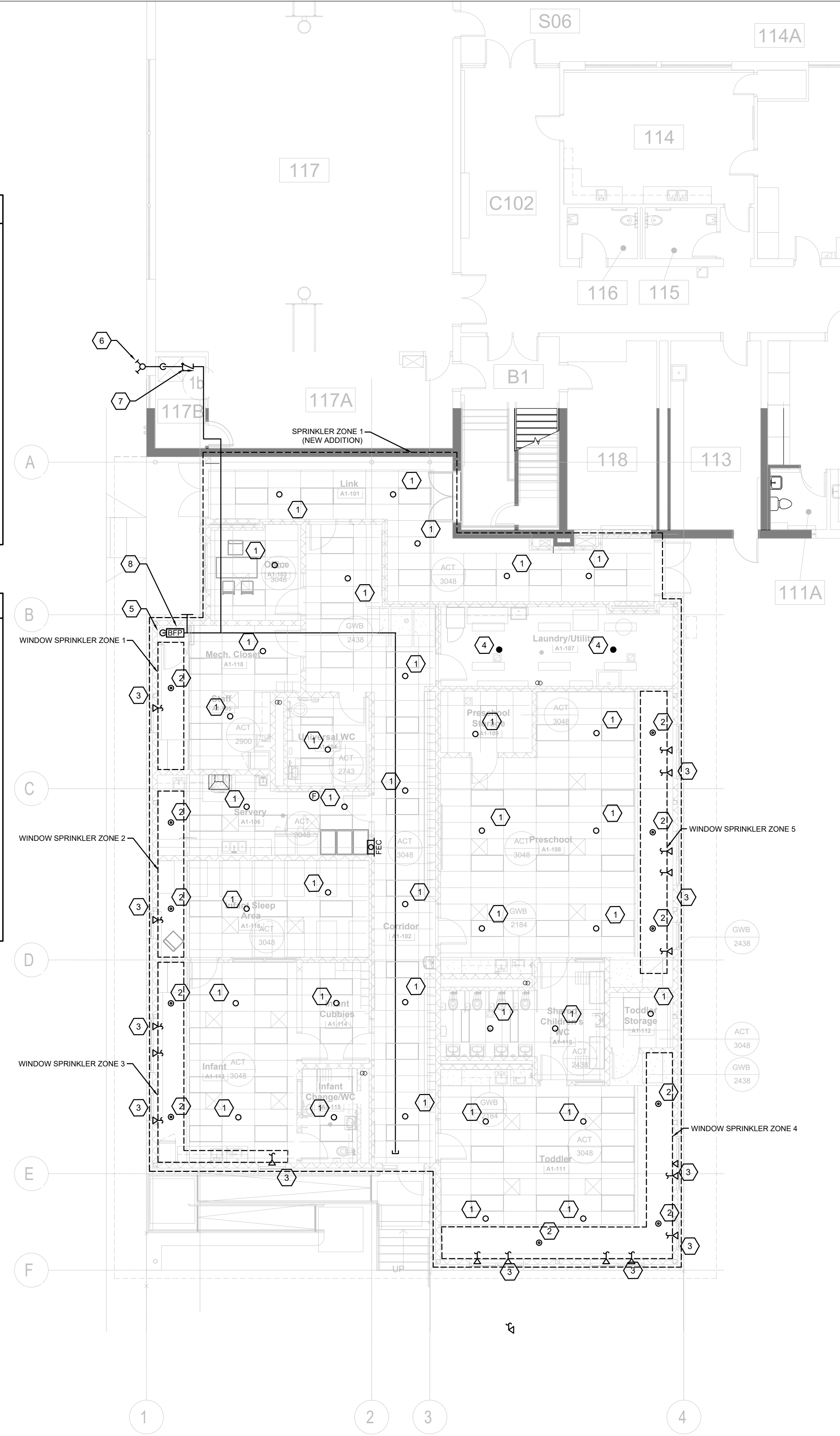
1 FIRE PROTECTION SCHEMATIC
SCALE: N.T.S

SHEET KEYNOTES

- PROVIDE CONCEALED SPRINKLER HEAD. PROVIDE SHOP DRAWINGS WITH DETAILED SPRINKLER DESIGN INCLUDING HYDRAULIC CALCULATIONS, COMPLETE WITH SPRINKLER HEADS, PIPING, AND SIZING DATA. REFER TO SPECIFICATIONS FOR MORE INFORMATION. (TYPICAL)
- PROVIDE UPRIGHT SPRINKLER IN 500MM HIGHER CEILING SPACE AT PERIMETER OF CLASSROOM (TYPICAL). PROVIDE SHOP DRAWINGS WITH DETAILED SPRINKLER DESIGN INCLUDING HYDRAULIC CALCULATIONS, PIPING, AND SIZING DATA. REFER TO SPECIFICATIONS FOR MORE INFORMATION. (TYPICAL)
- PROVIDE WINDOW SPRINKLERS WITHIN EXPOSED CEILINGS TO THE US OF ROOF DECK. PROVIDE SHOP DRAWINGS WITH DETAILED SPRINKLER DESIGN INCLUDING HYDRAULIC CALCULATIONS, PIPING, AND SIZING DATA. REFER TO SPECIFICATIONS FOR MORE INFORMATION. WINDOW SPRINKLER ZONE AS INDICATED IN FLOOR PLAN. (TYPICAL)
- PROVIDE PENDANT TYPE SPRINKLER HEAD. PIPING TO EXTEND FROM CUT BACK LOCATION. PROVIDE SHOP DRAWINGS WITH DETAILED SPRINKLER DESIGN INCLUDING HYDRAULIC CALCULATIONS. PROVIDE PIPING, AND SIZING DATA. REFER TO SPECIFICATIONS FOR MORE INFORMATION. (TYPICAL)
- PROVIDE NEW FIRE PROTECTION DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTER AT PERIMETER OF BUILDING. CONNECT TO 1500 INCOMING FIRE SERVICE FROM BELOW. REFER TO M2.0 FOR PIPING LAYOUT. VERTICAL INSTALLATION OF BACKFLOW IS ACCEPTABLE TO FIT IN SPRINKLER CLOSET. REFER TO DETAILS FOR INSTALLATION AND MAINTENANCE CLEARANCES AS PER CSA B64.10.
- PROVIDE FIRE DEPARTMENT CONNECTION AT NEW SPRINKLER ASSEMBLY ROOM.
- LOCATION OF CHECK VALVE TO BE ACCESSIBLE WITH ACCESS PANELS
- REFER TO FIRE PROTECTION SCHEMATIC FOR VALVES, PIPING/VALVING ARRANGEMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR SPRINKLER ROOM CLOSET.

GENERAL SHEET NOTES

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LOCATIONS OF EQUIPMENT AND CONNECTING SERVICES. DRAWINGS ARE NOT TO BE DIMENSIONED OR SCALED.
- COORDINATE FIRE PROTECTION WITH WORK OF OTHER TRADES PRIOR TO FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS AND TRANSITIONS REQUIRED FOR COMPLETE WORKABLE INSTALLATION.
- THIS SPRINKLER DRAWING IS PREPARED TO GIVE THE CONTRACTOR THE DESIGN INTENT, THE SCOPE OF WORK AND TO ASSIST IN PRICING THE SPRINKLER WORK. THE SUCCESSFUL SPRINKLER CONTRACTOR SHALL PREPARE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS AND SUBMIT TO THE CITY FIRE DEPARTMENT AND TO THE CONSULTANT FOR APPROVAL. CONTRACTOR SHALL OBTAIN COPIES OF CALCULATIONS AND ANY DRAWINGS REQUIRED FROM THE OWNER AND/OR THE ORIGINAL INSTALLING CONTRACTOR IN ORDER TO COMPLETE THIS DESIGN. THE CONTRACTOR SHALL INCLUDE FOR ALL NECESSARY REQUIREMENTS TO COMPLETE THE DESIGN IF THE ABOVE INFORMATION IS NOT AVAILABLE OR ACCEPTABLE.
- CONTRACTOR SHALL CO-ORDINATE SPRINKLER HEAD LOCATIONS IN AREAS WITH SUSPENDED CEILINGS WITH THE LOCATION OF LIGHTING, GRILLES, DIFFUSERS, AND SIMILAR ITEMS RECESSED IN OR SURFACE MOUNTED ON THE CEILING. IN AREAS WITH LAY-IN TILE, CENTRE THE SPRINKLER HEAD BOTH WAYS IN THE LAY-IN TILE.
- ENSURE DOORS AT CORRIDOR 102, UTILITY/LAUNDRY 107, TODDLER STORAGE 112, LINK 101 TO BE TIED TO FIRE ALARM TO COMPLY WITH NFPA 80. DOOR OPERATOR TO HAVE A SWITCH FOR ON/OFF/HOLD OPEN AS PER ARCHITECTURAL SPECIFICATIONS.



1 FIRE PROTECTION - GROUND FLOOR PLAN
SCALE: 1:100

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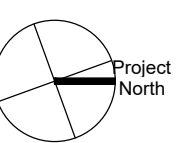
250 ROWNTREE DAIRY RD, WOODBRIDGE, ON
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CSV Renaissance Addition

1226 Lockhart Rd
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FIRE PROTECTION -
GROUND FLOOR PLAN

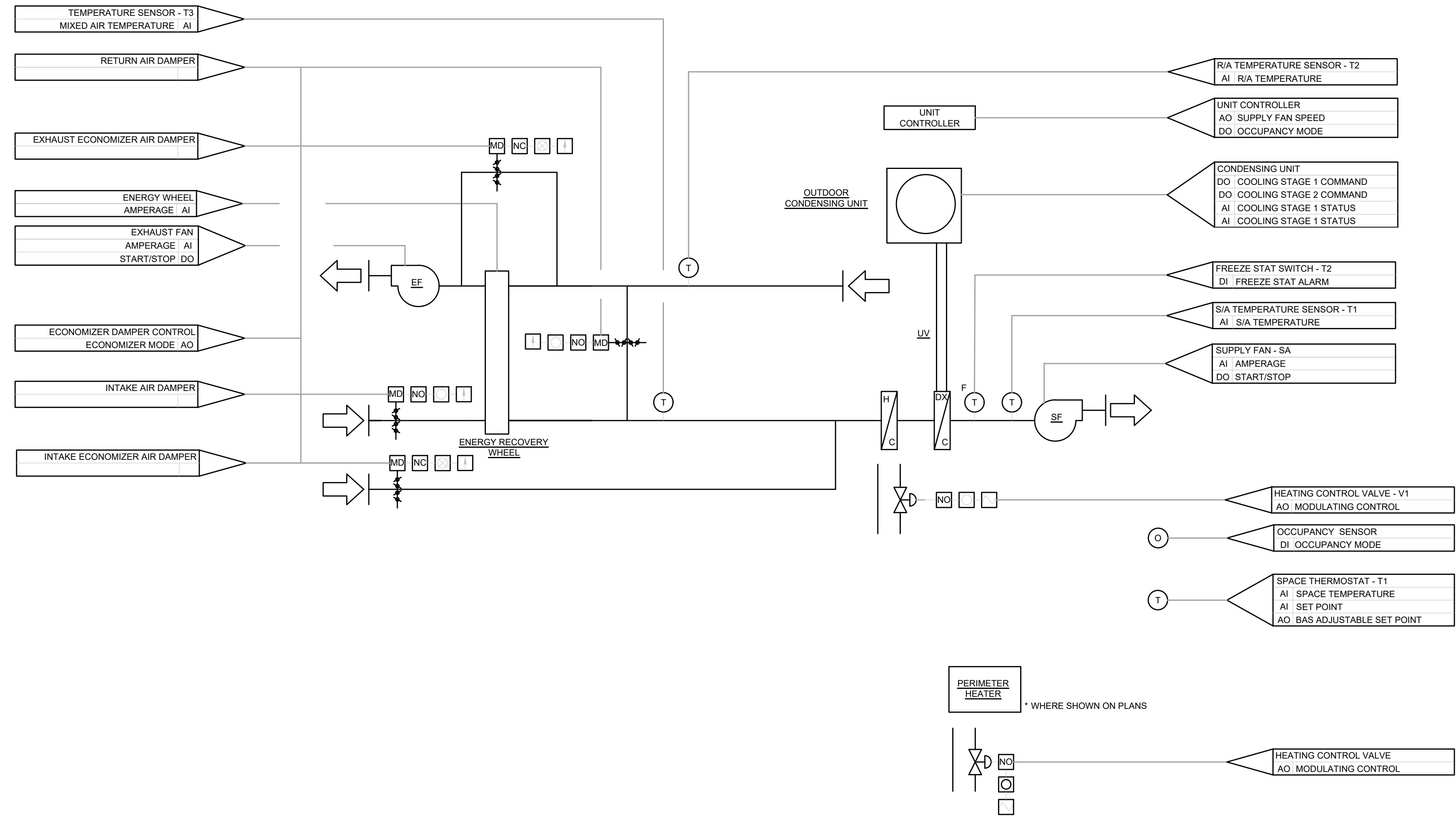


Project North
drawing number
M5.1

- GENERAL:**
- ALL SETPOINTS SHALL BE ADJUSTABLE.
 - THE UNIT SHALL RECEIVE A HEATING OR COOLING MODE SIGNAL FROM THE BOILER PLANT AND CHILLER PLANTS RESPECTIVELY.
 - THE UNIT SHALL RECEIVE A HEATING FAIL SIGNAL FROM THE BOILER PLANT.
- OCCUPANCY MODES:**
- OCCUPIED MODE
 - THE UNIT WILL BE IN OCCUPIED MODE BASED ON A TIME OF DAY SCHEDULE CONTROLLED BY THE CARETAKER.
 - NIGHT SETBACK
 - NIGHT SETBACK SHALL BE ENABLED WHEN THE ASSOCIATED SPACE TEMPERATURE DROPS BELOW THE UNOCCUPIED SPACE SETPOINT OF 14 °C. THE BAS SHALL CYCLE THE AHU TO MAINTAIN SPACE TEMPERATURE AT UNOCCUPIED SETPOINT. THE MIXED AIR DAMPERS SHALL REMAIN CLOSED.
 - OPTIMAL HEATING START
 - THE BAS SHALL ENABLE THE AHU UP TO 3 HOURS BEFORE OCCUPANCY TO ACHIEVE OCCUPIED SETPOINT WHEN OCCUPANCY STARTS. THE MIXED AIR DAMPERS SHALL BE CLOSED.
- SYSTEM STARTUP:**
- THE UNIT SHALL BE ENABLED DURING OCCUPIED HOURS, NIGHT SETBACK, OPTIMAL HEATING START OR OCCUPANCY OVERRIDE.
 - IF THE SURVEILLANCE PANEL IS ARMED, THE FAN WILL NOT BE ENABLED DURING OCCUPIED HOURS.
 - THE BAS SHALL COMMAND THE RETURN FAN ON, ONCE STATUS IS CONFIRMED AND FOLLOWING A 1-MINUTE TIME DELAY, THE BAS SHALL START THE SUPPLY FAN.
- FAN SHUTDOWN:**
- THE BAS SHALL SHUT DOWN THE FAN UNDER THE FOLLOWING CONDITIONS:
 - UNOCCUPIED MODE (NIGHT SETBACK AND OPTIMAL HEATING START ARE INACTIVE)
 - OCCUPANCY MILD SETBACK
 - FREEZESTAT TRIP, SUPPLY FAN SHUTS DOWN, RETURN FAN REMAINS ON.
 - HEATING FAIL SIGNAL FROM BOILER PLANT
 - A LOW SUPPLY AIR TEMPERATURE CONDITION (SEE ALARM CONDITIONS). THE UNIT SHUTS DOWN AND THE HEATING VALVE IS COMMANDED 100% OPEN. AFTER 1 HOUR, THE UNIT RESTARTS AND THE CYCLE IS REPEATED IF THE CONDITION IS STILL PRESENT.
- FAN MODULATION:**
- FOR VARIABLE VOLUME AIR SYSTEMS THE BAS WILL MODULATE THE FAN TO MAINTAIN THE SUPPLY AIR PRESSURE AT SETPOINT AS DETERMINED BY THE AIR BALANCER.
- HEATING AND COOLING MODES:**
- HEATING MODE
 - WHEN THE BOILER PLANT IS ENABLED, THE UNIT SHALL BE IN HEATING MODE.
 - FREE COOLING MODE
 - WHEN THE HEATING PLANT IS DISABLED AND THE RETURN AIR TEMPERATURE IS AT LEAST 2 °C BELOW THE OUTDOOR AIR TEMPERATURE, THE UNIT SHALL BE IN FREE COOLING MODE.
 - MECHANICAL COOLING MODE
 - FOR DX COOLING, MECHANICAL COOLING MODE WILL BE ENABLED UNDER THE FOLLOWING CONDITIONS:
 - THE HEATING PLANT IS DISABLED
 - THE OUTDOOR AIR TEMPERATURE IS ABOVE 19 °C.
 - THE SPACE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT.
- ZONE TEMPERATURE DEMAND:**
- FOR UNITS SERVING SINGLE ZONES, THE ZONE TEMPERATURE DEMAND WILL BE BASED ON THE SPACE TEMPERATURE. FOR UNITS SERVING MULTIPLE ZONES, THE ZONE TEMPERATURE DEMAND WILL BE BASED ON THE RETURN AIR TEMPERATURE. THE BAS SHALL CALCULATE A HEATING DEMAND % AND A COOLING DEMAND % FROM THE ZONE THROUGH A PID ALGORITHM. THE ZONE TEMPERATURE SETPOINTS SHALL BE DETERMINED ACCORDING TO THE FOLLOWING SCHEDULE.

HEATING SETPOINT	21 °C
COOLING SETPOINT	24 °C
FREE COOLING SETPOINT	23 °C

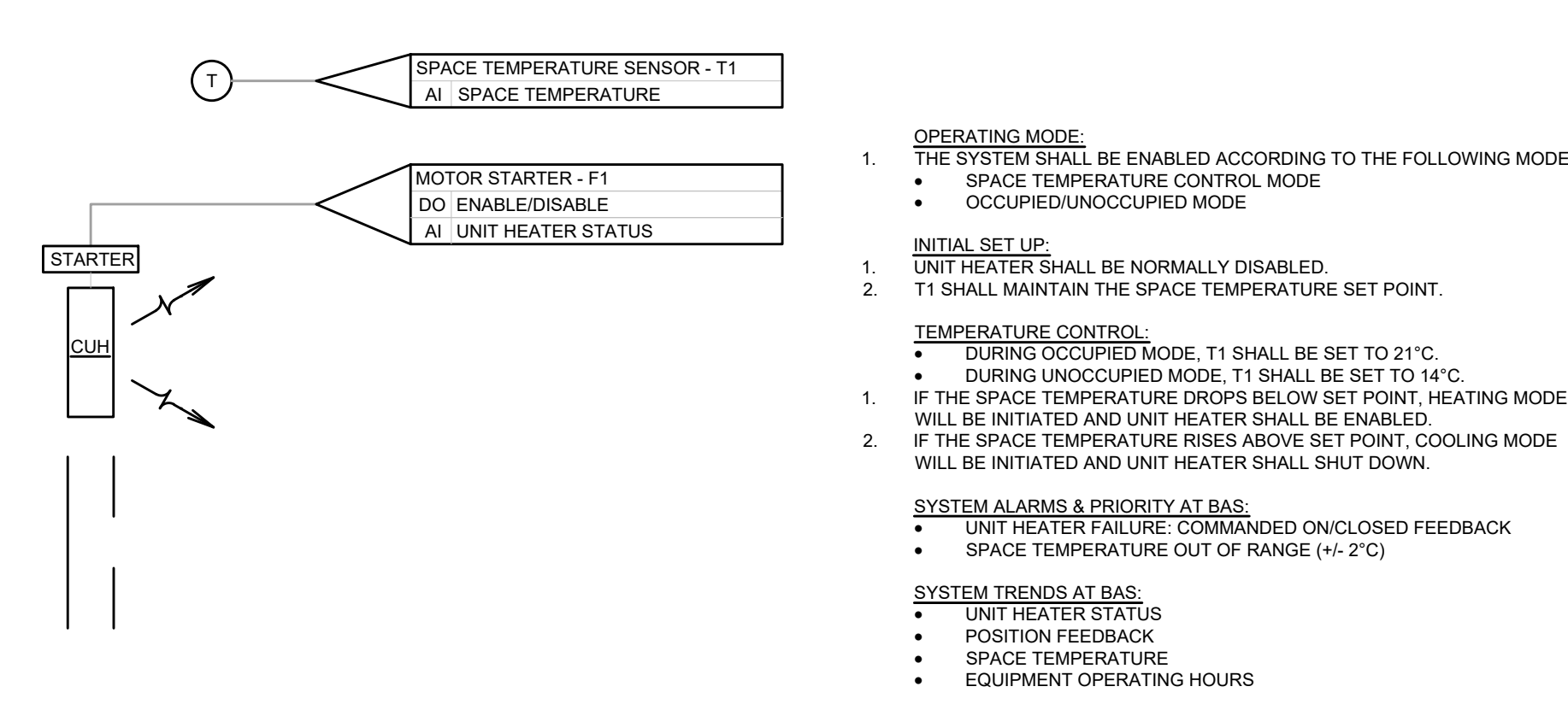
- LOCAL THERMOSTAT SHALL ALLOW FOR OCCUPANT ADJUSTMENT OF SPACE SETPOINTS BY A MAXIMUM OF +/- 2°C.
- HEATING:**
- DURING OCCUPIED MODE AND OPTIMAL HEATING START MODE:
 - WHEN THE UNIT IS RUNNING DURING HEATING MODE, THE BAS SHALL MODULATE THE HEATING VALVE TO MAINTAIN SUPPLY AIR TEMPERATURE AT THE SPACE TEMPERATURE SETPOINT.
 - THE PERIMETER HEATER CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.
 - IF AFTER 1 HOUR (ADJUSTABLE) THE HEATING SETPOINT CANNOT BE MET, THE UNIT VENTILATOR HEATING CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.
 - DURING NIGHTTIME SETBACK MODE:
 - WHEN THE UNIT IS OFF DURING HEATING MODE, THE BAS SHALL MODULATE THE VALVE TO MAINTAIN THE MIXED AIR TEMPERATURE AT 8 °C.
 - WHEN THERE IS NO HEAT AVAILABLE FROM BOILER PLANT OR DURING LOW SUPPLY AIR TEMPERATURE MODE:
 - UNIT VENTILATOR CONTROL VALVE SHALL BE COMMANDED TO 100% OPEN.
- COOLING:**
- DX COOLING - THE BAS SHALL CYCLE THE COOLING TO MAINTAIN SPACE TEMPERATURE AT COOLING SETPOINT.
- FREEZESTAT:**
- IF THE FREEZESTAT TRIPS, THE BAS SHALL COMMAND THE SUPPLY FAN OFF, COMMAND THE HEATING VALVE OPEN 100% AND LEAVE THE RETURN FAN ON.
- ALARMS:**
- THE BAS SHALL SEND ALARMS FOR THE FOLLOWING CONDITIONS:
 - SUPPLY FAN OR RETURN FAN FAIL
 - FREEZESTAT TRIP - CO2 LEVELS ARE GREATER THAN 1500 PPM OR LESS THAN 200 PPM
 - TEMPERATURE ALARM - SPACE TEMPERATURE < 10 °C
 - ENERGY COOL ALARM - SPACE TEMPERATURE < 22.5 °C WHEN OAT > 21 °C - ENERGY HEAT ALARM - SPACE TEMPERATURE > 24 °C WHEN OAT < 5 °C
 - SUPPLY AIR TEMPERATURE FAIL - OAT < 10C, SAT < 10 °C FOR A MINIMUM OF 3 MINUTES AND THE SUPPLY FAN RUNNING FOR A MINIMUM OF 5 MINUTES
 - MIXED AIR TEMPERATURE - MAT < 8°C FOR 3 MINUTES AND THE SUPPLY FAN RUNNING FOR A MINIMUM OF 5 MINUTES
 - RUNTIME ALARM - FAN STATUS IS ON FOR MORE THAN 72 HOURS PER WEEK.



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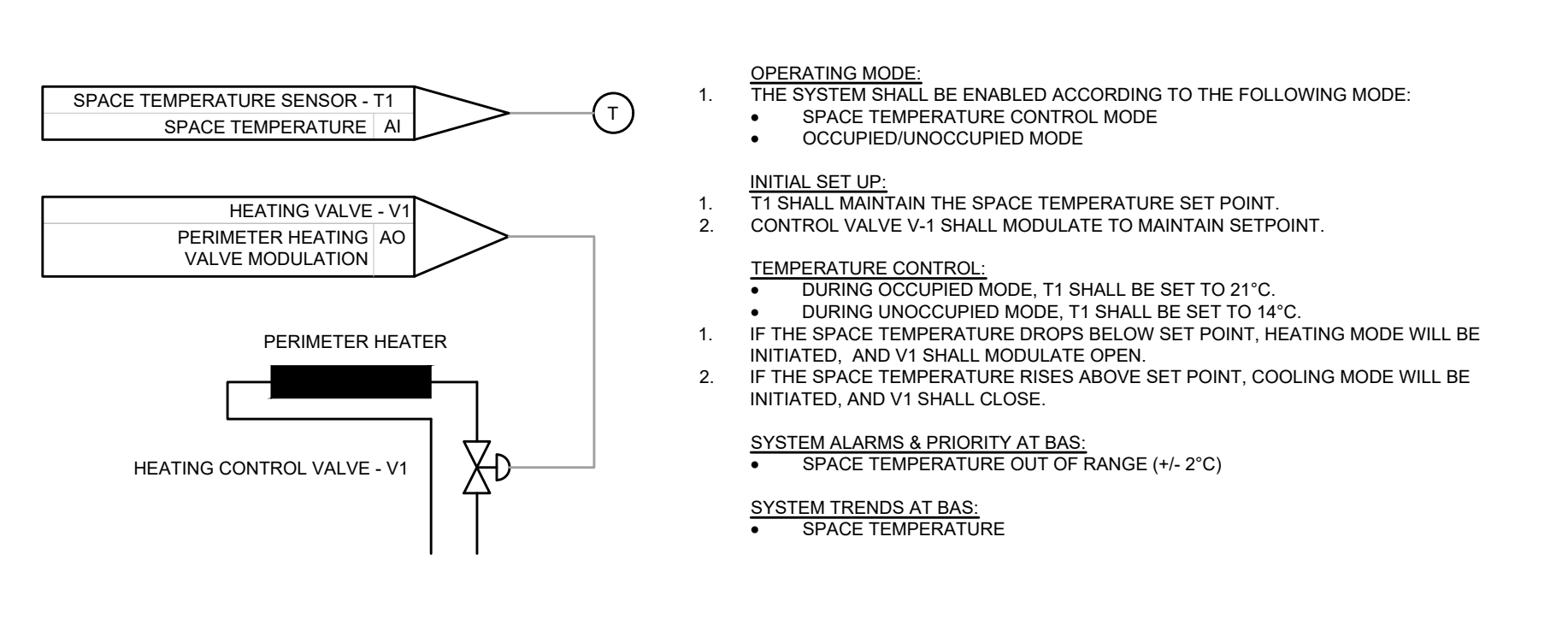
1 UNIT VENTILATOR C/W INTEGRAL ERV CONTROL SEQUENCE

NOT TO SCALE



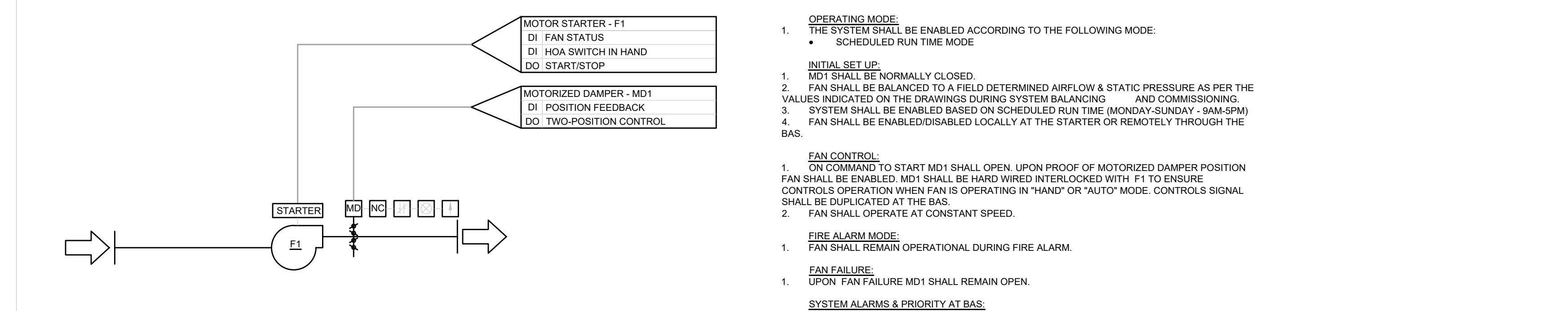
2 TYPICAL CABINET UNIT HEATER CONTROL SEQUENCE

NOT TO SCALE



3 PERIMETER HEATER CONTROL SEQUENCE IN PUBLIC AREAS

NOT TO SCALE



4 TYPICAL EXHAUST FAN CONTROL SEQUENCE

NOT TO SCALE

- GENERAL NOTES:**
- THE EXISTING BUILDING AUTOMATION SYSTEM IS BY VIRIDIAN AUTOMATION. THE INTENT FOR THIS PROJECT IS TO EXPAND THE EXISTING BUILDING AUTOMATION SYSTEM TO CONNECT TO ALL NEW DEVICES AND EQUIPMENT. ALL CONTROLS WORK IS TO BE BY VIRIDIAN AUTOMATION.
 - ALL SENSORS AND CONTROLLERS FOR MECHANICAL EQUIPMENT ARE TO BE PROVIDED BY THE CONTROLS CONTRACTOR AND INSTALLED AT THE FACTORY.
 - UNIT IS TO BE HARDWIRED CONTROLLED BY BAS. BACNET INTERFACE FOR MONITORING ONLY.
 - ALL CONTROL VALVES FOR COILS AND PERIMETER HEATERS ARE TO BE NORMALLY OPEN AND FAIL OPEN SPRING RETURN.

QUASAR CONSULTING GROUP

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 WEB: WWW.QUASARG.COM

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 STATUS:

MECHANICAL CONTROL SEQUENCES

Project North

drawing number
M6.0

EXPANSION TANK SCHEDULE										
UNIT TAG	MANUFACTURER	MODEL	SERVICE	TANK VOLUME (L)	ACCEPTANCE VOLUME (L)	MAX OPERATING PRESSURE (KPa)	RELIEF PRESSURE (KPa)	MAX OPERATING TEMPERATURE (°C)	WEIGHT (KG)	REMARKS
ET-1	AMTROL	EXTROL 50-LBC-125	DHWT-1	50	36	862	414	115	34	

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE					
TAG	MANUFACTURER	MODEL	SIZE	FINISH	REMARKS
A	E.H. PRICE	SCD	600X600. REFER TO FLOOR PLAN FOR NECK CONNECTION	B-12	
B	E.H. PRICE	80	REFER TO FLOOR PLANS	B-12	

NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

GREASE INTERCEPTOR SCHEDULE										
TAG	MANUFACTURER	MODEL	TYPE	SIZE (MMXMMXMM)	INLET/OUTLET SIZE (MM)	WATER CAPACITY (L)	GREASE CAPACITY (KG)	FLOW (L/S)	WEIGHT (KG)	REMARKS
GI-1	ZURN	Z1170-E-T	BELOW GRADE	560X375X420	75	38	14	0.946	38	

NOTES:
1. PROVIDE COVER PLATE TYPE THAT CAN RECEIVE TILE FINISH

GAS FIRED HOT WATER STORAGE TANKS									
TAG	MANUFACTURER	MODEL	LOCATION	TYPE	GAS INPUT (KW)	STORAGE CAPACITY (L)	RECOVERY RATE LPH @ 37.7 °C RISE	V/PH/Hz	REMARKS
DHWT-1	AO SMITH	BTH-120 MXI	UTILITY ROOM	GAS FIRED	35.2	227	522.4	120/1/60	

PUMP SCHEDULE										
TAG	MANUFACTURER	MODEL	LOCATION	TYPE	FLOW (L/s)	HEAD (Pa)	RPM	VFD	V/PH/Hz	REMARKS
P-1	ARMSTRONG	4380-3X3X5L	BOILER ROOM	DUTY/STAND BY	12.6	227	522.4	YES	208/3/60	
P-2	ARMSTRONG	4380-3X3X5L	BOILER ROOM	DUTY/STAND BY	12.6	227	522.4	YES	208/3/60	

EXHAUST FANS											
UNIT TAG	MANUFACTURER	MODEL	LOCATION	SERVICE	AIRFLOW (L/s)	E.S.P. (Pa)	FAN (RPM)	MOTOR			REMARKS
								POWER (KW)	(KW)	V/PH/Hz	
EF-1	GREENHECK	G-090-VG	ROOF	WASHROOM SUTILITY ROOM	330	150	1725		0.13	120/1/60	

NOTES:
1. 600MM ROOF CURB C/W DISCONNECT SWITCH
2. BIRD SCREEN

KITCHEN EXHAUST FANS												
UNIT TAG	MANUFACTURER	FAN MODEL	HOOD MODEL	LOCATION	SERVICE	AIRFLOW (L/s)	E.S.P. (Pa)	FAN (RPM)	MOTOR			REMARKS
									POWER (KW)	BHP (KW)	V/PH/Hz	
EF-2	CAPTIVEAIRE		3650-BD-2	ROOF	KITCHEN	205	186	1300	0.23	0.1	115/1/60	

NOTES:
1. GREASE BOX, ECM WIRING PACKAGE
2. DIRECT DRIVE CONSTRUCTION
3. VARIABLE SPEED CONTROL, HIGH HEAT OPERATION 300F
4. NEMA 3R SAFETY DISCONNECT SWITCH
5. VENTED 800MM HIGH ROOF CURB C/W HINGE KIT AND GREASE CUP
6. FIRE TANK SUPPRESSION SYSTEM

WALL FIN HEATERS									
TAG	MANUFACTURER	MODEL	ENCLOSURE HEIGHT (MM)	# OF ROWS	HEAT OUTPUT (KWM)	FLUID			REMARKS
						TYPE	E.F.T. (°C)	L.F.T. (°C)	
WF-A	ENGINEERED AIR	WF-1A	450	1	1.98	WATER	82.2	71.1	
WF-B	ENGINEERED AIR	WF-1B	450	1	1.27	WATER	82.2	71.1	

NOTES:
1. CAPACITIES BASED ON WATER TEMPERATURE DROP OF 11.1°C AND ENTERING AIR TEMPERATURE OF 18°C.
2. FLUID FLOW OF RADIATORS TO BE DETERMINED BASED ON REQUIRED HEATING CAPACITY.
3. REFER TO FLOORPLANS FOR RADIATOR TYPE, LOCATION, CAPACITY (KW), AND ACTIVE LENGTH (MM).
4. LENGTHS SHOWN ON FLOORPLANS ARE ACTIVE LENGTHS OF RADIATORS. ENCLOSURES ARE TO EXTEND BEYOND ACTIVE LENGTH ACROSS FULL LENGTH OF WALL. ALL LENGTHS OF RADIANT HEATERS ARE TO BE SITE MEASURED PRIOR TO ORDERING AND COORDINATED WITH UNIT VENTILATORS DIMENSIONS.
5. ROWS TO BE INSTALLED AT 100MM BETWEEN CENTRES.

PLUMBING FIXTURE SCHEDULE						
FIXTURE TAG	DESCRIPTION	CONNECTION SIZES				REMARKS
		DCW	DHW	SAN	VENT	
WC-1	FLUSH VALVE WATER CLOSET	25	N/A	100	38	
WC-2	BARRIER FREE WATER CLOSET	25	N/A	100	38	
L-1	CHILDREN WALL HUNG LAVATORY	12	12	32	32	
L-2	BARRIER FREE LAVATORY	12	12	32	32	
S-1	SINGLE BASIN SINK	12	12	32	32	
S-2	TRIPLE COMPARTMENT SINK	12	12	38	38	
S-3	SINGLE LARGE STAINLESS STEEL SINK	12	12	38	38	
S-4	STANDARD SINK WITH SIDE SPRAY FAUCET	12	12	32	32	
S-5	STAINLESS STEEL HAND WASH SINK	12	12	32	32	
FD	75MM FLOOR DRAIN	N/A	N/A	75	38	
MS-1	MOP SINK	20	20	75	38	
EW-1	EYE WASH STATION	12	12	32	32	
DW-1	DISHWASHER	N/A	12	32	32	

OUTDOOR CONDENSING UNIT											
TAG	MANUFACTURER	MODEL	LOCATION	SERVICE	REFRIGERANT TYPE	COOLING		MCA (A)	MOCP (A)	V/PH/Hz	REMARKS
						SIZE(TONS)	TOTAL (KW)				
CU-105	KEEPRITE	CCA7	ROOF	STAFF ROOM	R454B	2	7	14.5	20	208/1/60	
CU-108	KEEPRITE	CCA7	ROOF	PRESCHOOL	R454B	2	7	14.5	20	208/1/60	
CU-111	KEEPRITE	CCA7	ROOF	TODDLER	R454B	2	7	14.5	20	208/1/60	
CU-113	KEEPRITE	CCA7	ROOF	INFANT	R454B	2	7	14.5	20	208/1/60	

NOTES:
1. CONDENSING UNITS TO SERVE NEW UNIT VENTILATORS.
2. UNITS TO BE MOUNTED ON NEW PAVERS AS PER DETAILS.

FORCED FLOW HEATERS												
TAG	MANUFACTURER	MODEL	LOCATION	CAPACITY (KW)	AIRFLOW (L/S)	FLUID TYPE	FLOW (L/S)	WATER PRESSURE DROP(Pa)	ELECTRICAL			REMARKS
									AMPS (A)	V/PH/Hz		
CUH-1	SIGMA	SFF04	LINK 101	10.4	189	WATER	0.27	9.3	1.9	120/1/60	1, 2, 3	
CUH-2	SIGMA	SFF04	LINK 101	10.4	189	WATER	0.27	9.3	1.9	120/1/60	1, 2, 3	
CUH-3	SIGMA	SFF02	CORRIDOR 102	5.3	189	WATER	0.14	1.8	1.9	120/1/60	1, 2, 3	

NOTES:
1. CAPACITIES BASED ON 82 C E.W.T.
2. RECESSED TYPE WITH FRONT SUPPLY AND RETURN ORIENTATION
3. 2 ROW TYPE WITH 15.5°C E.A.T.

UNIT VENTILATOR																										
UNIT TAG	MANUFACTURER	MODEL	LOCATION	SUPPLY FAN		OUTDOOR AIR			ENERGY RECOVERY WHEEL	HEATING					COOLING				FILTER SUPPLY/RETURN	ELECTRICAL					REMARKS	
				AIRFLOW (L/S)	E.S.P. (Pa)	AIRFLOW (L/S)	E.A.T. db. (°C)	L.A.T. db. (°C)		TOTAL CAPACITY (KW)	E.W.T. (°C)	L.W.T. (°C)	FLOW (L/S)	E.A.T. (°C)	L.A.T. (°C)	TOTAL CAPACITY (KW)	SENSIBLE CAPACITY (KW)	REFRIGERANT		S.A.T. (°C)	MCA (A)	MOTOR (KW)	SUPPLY MOTOR RPM	EXHAUST MOTOR RPM		V/PH/Hz
UV-105	TEMSPEC	VER1800D	STAFF ROOM	307	125	74	55	52	YES	9.7	82.2	71.7	0.22	17.6	24	6.2	4.4	R-454B	14	MERV-13	10	037	1400	1200	208/3/60	
UV-108	TEMSPEC	VER1800D	PRESCHOOL	576	125	170	61	57	YES	14.1	82.2	71.1	0.32	15.8	24	6.8	5.5	R-454B	14	MERV-13	10	037	1400	1200	208/3/60	
UV-111	TEMSPEC	VER1800D	TODDLER	566	125	189	61	57	YES	14.2	82.2	71.1	0.32	17.6	24	6.8	5.5	R-454B	14	MERV-13	10	037	1400	1200	208/3/60	
UV-113	TEMSPEC	VER1800D	INFANT	506	125	130	60	57	YES	13.2	82.2	70.6	0.28	15.8	24	6.7	5.5	R-454B	14	MERV-13	10	037	1400	1200	208/3/60	

1. PROVIDED WITH ENERGY RECOVERY WHEEL.
2. MERV-13 FILTER
3. C/W EXTERIOR LOUVRE AS PER ARCHITECTURAL DRAWINGS AT HIGH LEVEL. PROVIDE SEPARATION IN REAR PLENUM TO SEPARATE INTAKE AND EXHAUST AIR DUCTS. DUCT TRANSITION TO BE PROVIDED BY CONTRACTOR.
4. UNIT TO HAVE 375MM DEEP FALSBACK WITH CAVITY/REAR PLENUM AS PER DETAILS AT BACK OF UNIT WITH SEPARATION FOR INTAKE AND EXHAUST CONNECTIONS TO LOUVRE AT HIGH LEVEL.
5. PROVIDE ENCLOSURE ON TOP OF UNIT TO HIDE PIPING AND DUCT CONNECTIONS BETWEEN TOP OF UNIT AND CEILING.
6. REFER TO DETAILS AND SPECIFICATIONS FOR MORE REQUIREMENTS.
7. COMPLETE WITH 100% ECONOMIZER MODE DAMPERS AND POWER EXHAUST.
8. COMPLETE WITH FACTORY INSTALLED CONDENSATE PUMP.

Rev	Description	Date
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7	Issued for Building Permit	2024-12-04
8	Issued for Tender	2025-01-14

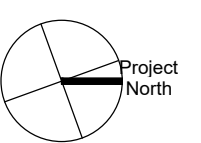


CSV Renaissance Addition

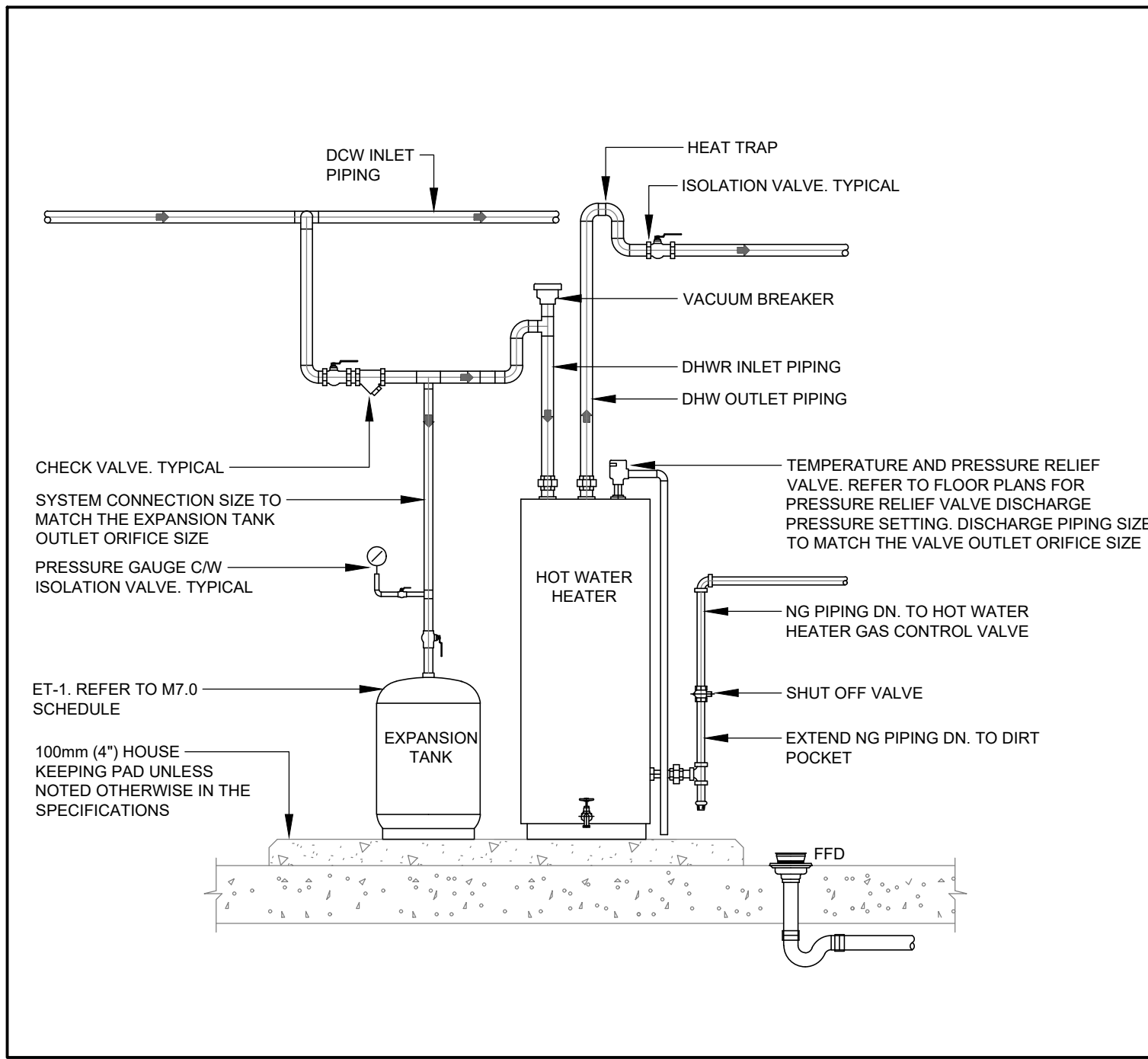
1226 Lockhart Rd
Burlington, ON L7S 1H1

PROJECT CODE: ED-22-018
SCALE: AS SHOWN
DATE: 2022-11-09
STATUS:

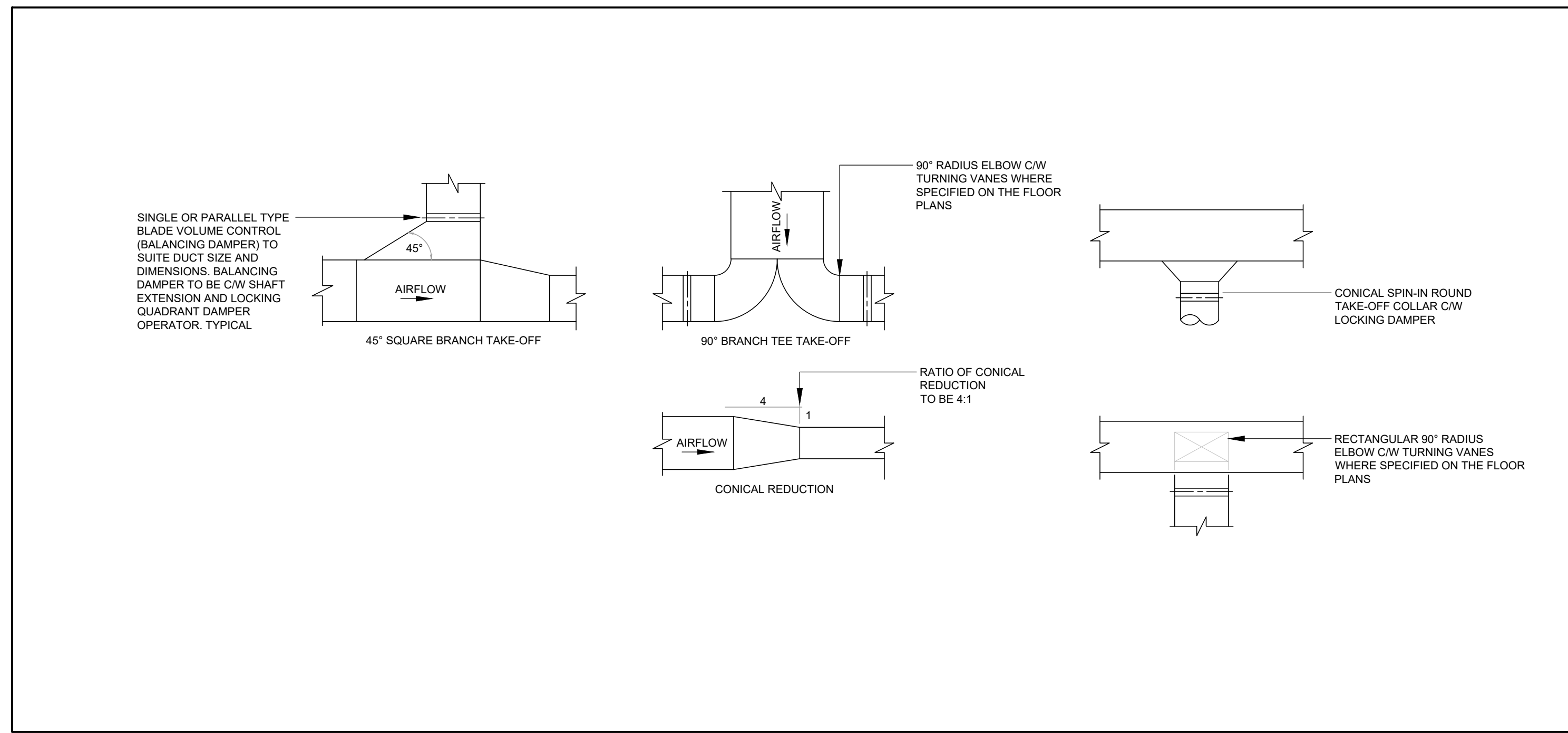
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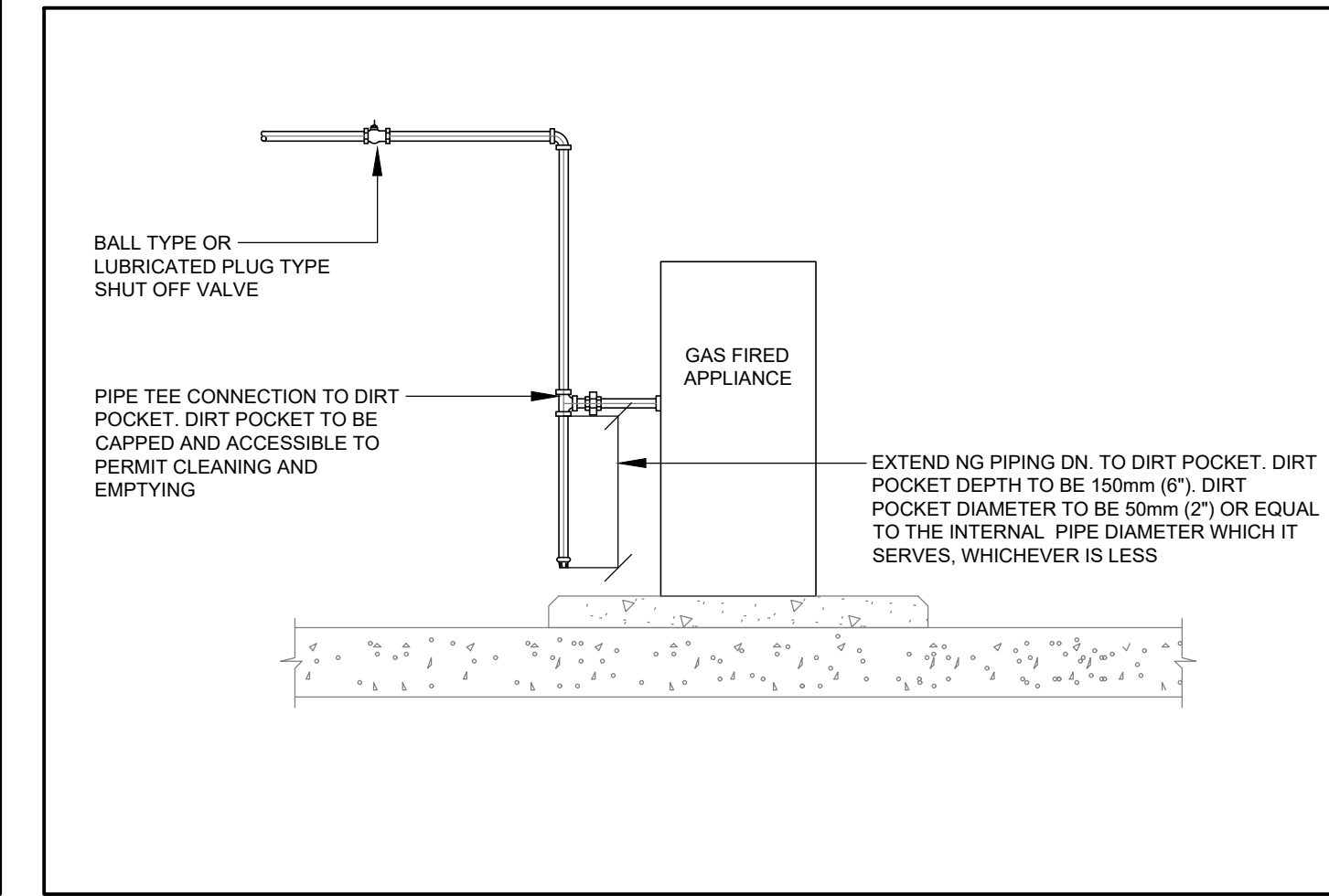
Project North
drawing number
M7.0



23 30 00.01 SEALED COMBUSTION HOT WATER HEATER
NOT TO SCALE

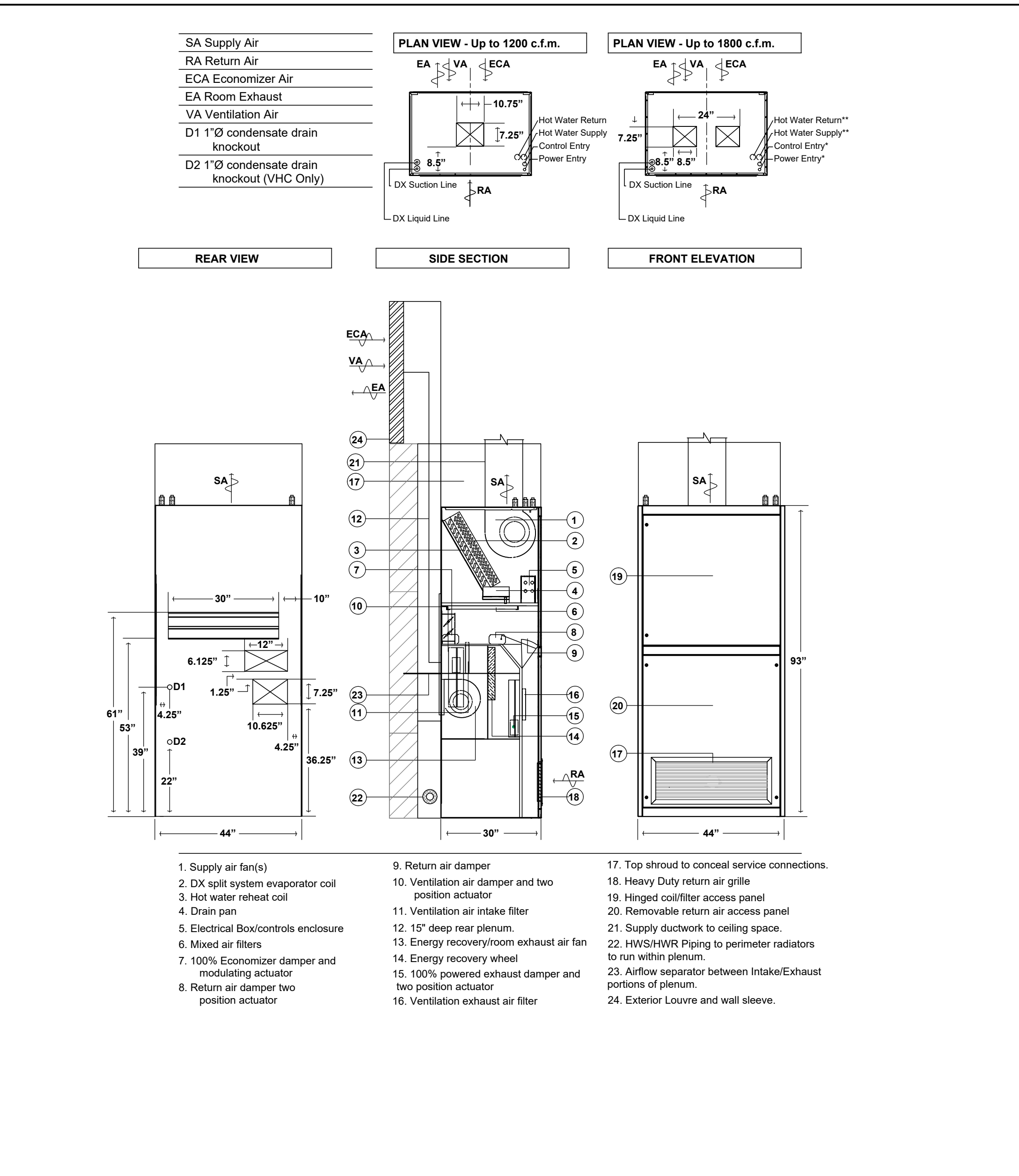


23 30 00.01 DUCTWORK FITTINGS & TAKE-OFF'S
NOT TO SCALE

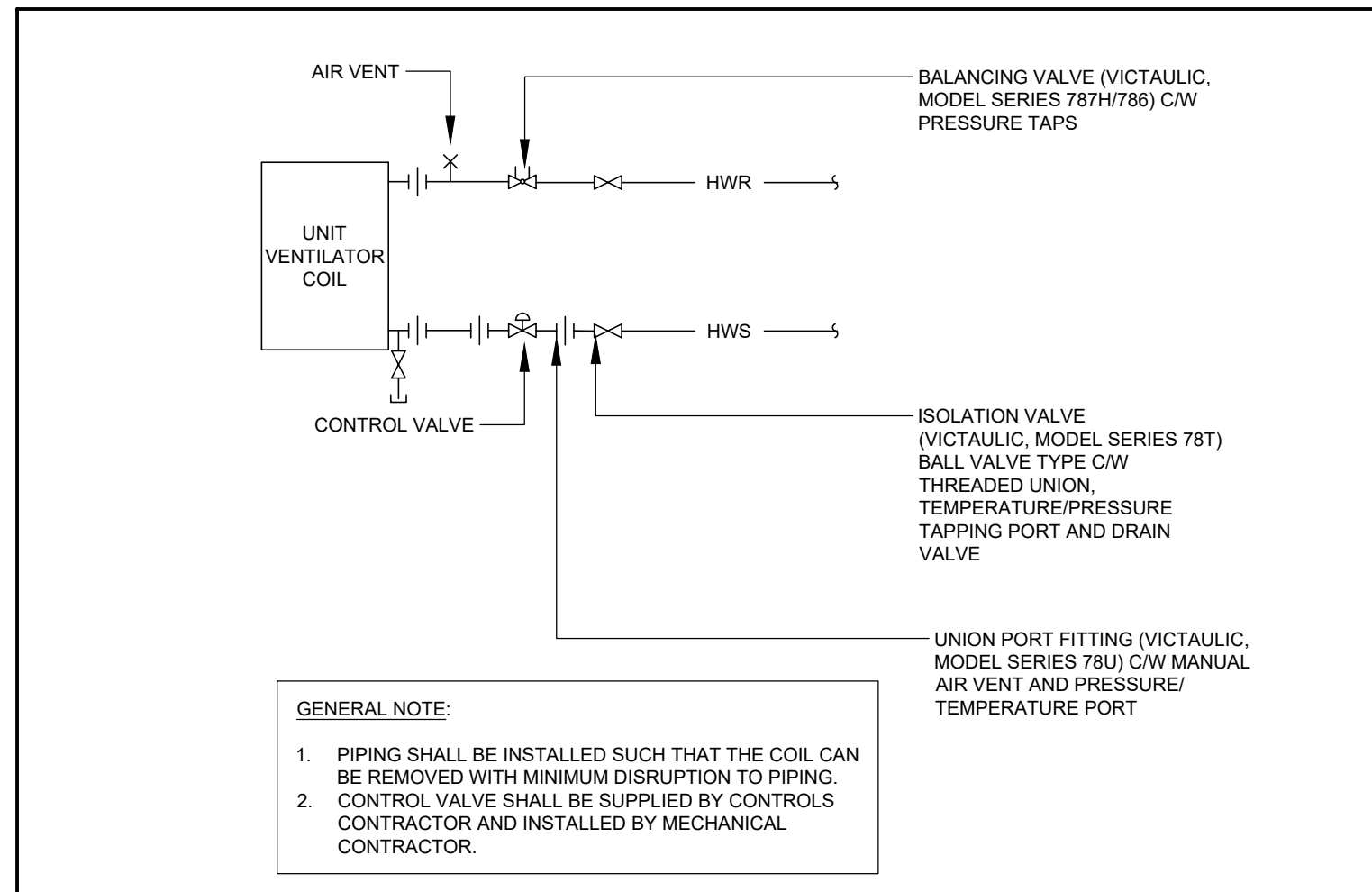


23 11 23.01 NATURAL GAS EQUIPMENT CONNECTION
NOT TO SCALE

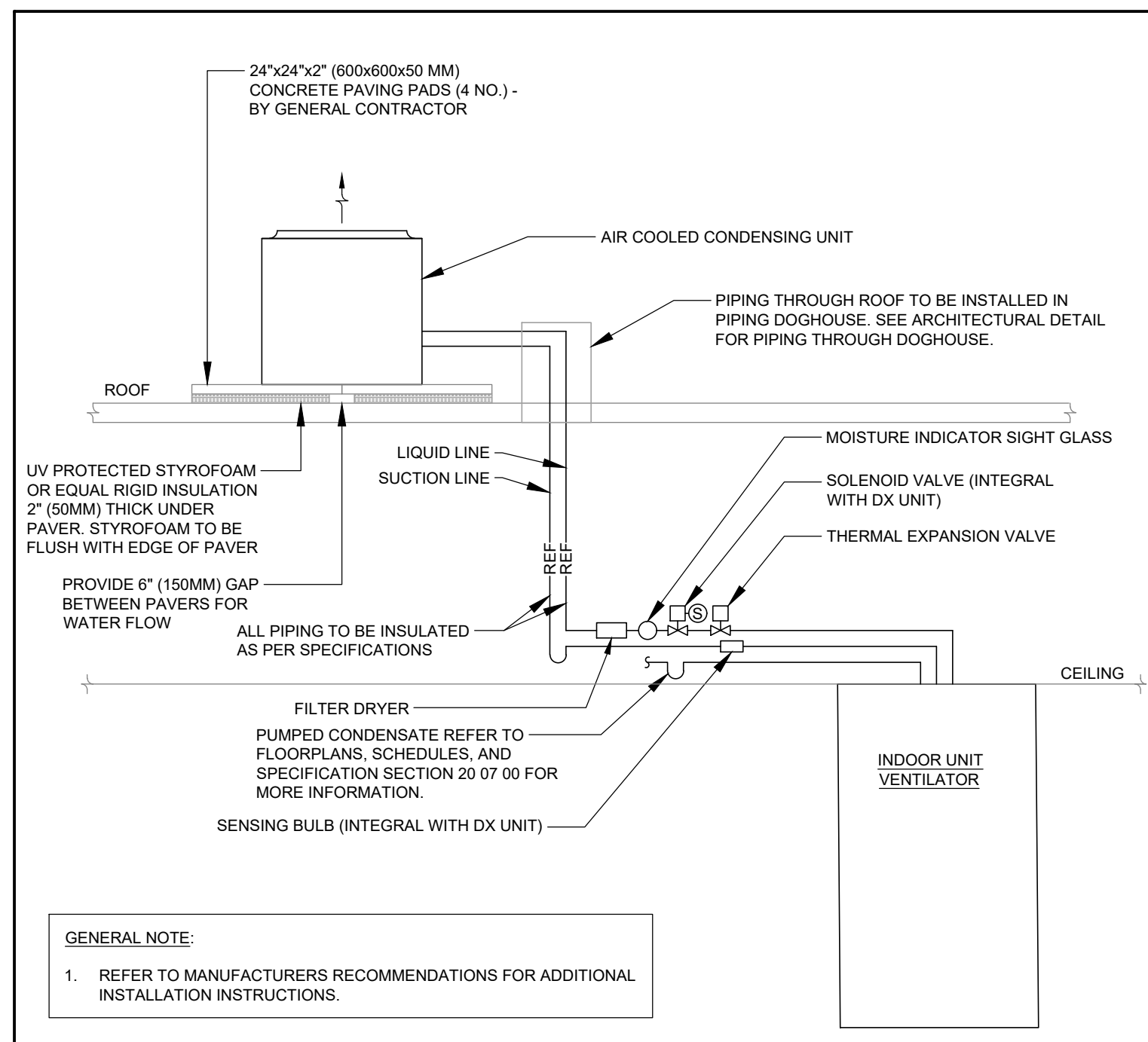
Rev	Description	Date
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6	Issued for 90% CD Review	2024-10-01
7	Issued for Building Permit	2024-12-04
8	Issued for Tender	2025-01-14



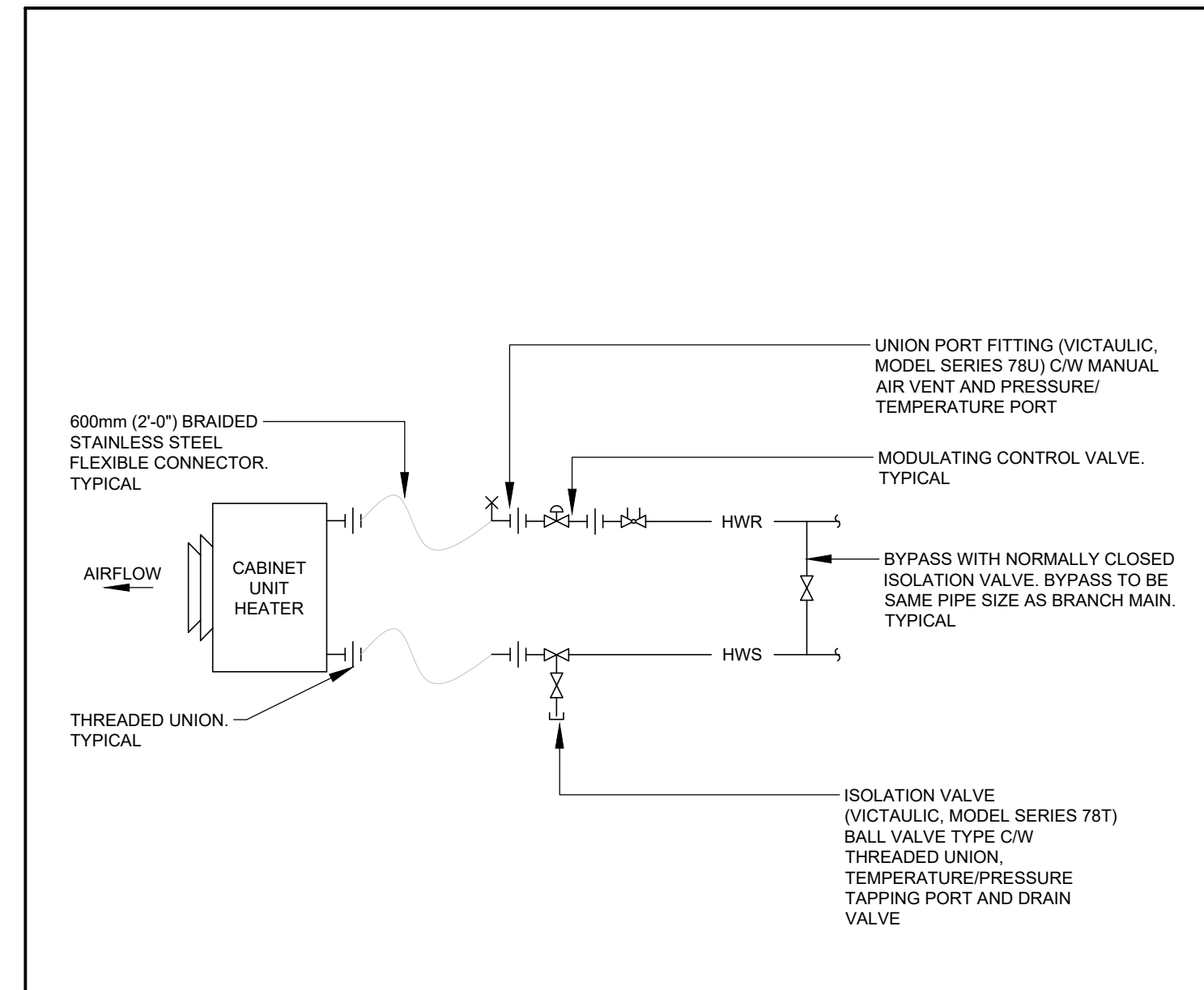
23 82 19.01 UNIT VENTILATOR DETAILS
NOT TO SCALE



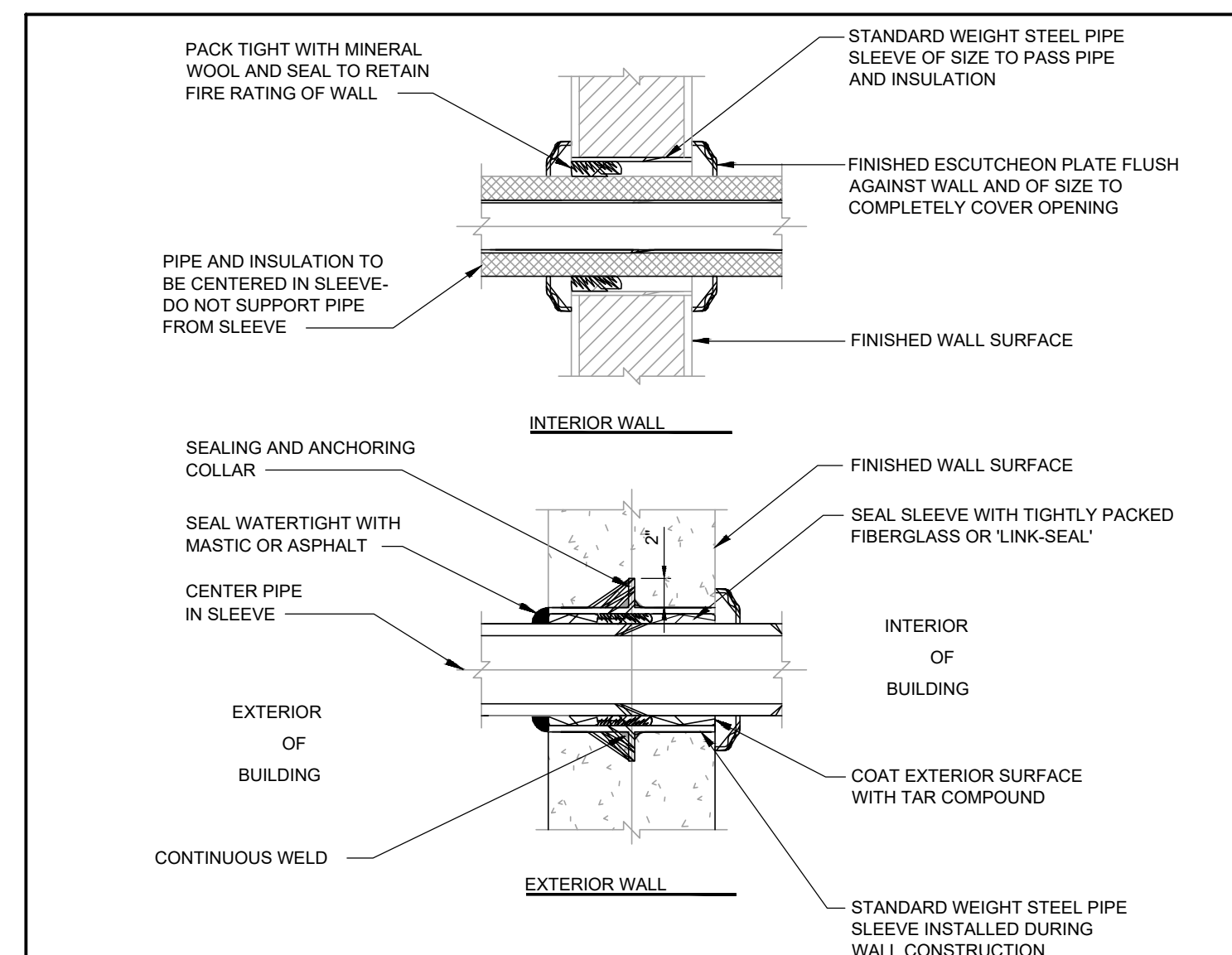
23 82 36.03 UNIT VENTILATOR HEATING PIPING DETAIL
NOT TO SCALE



23 23 00.02 CONDENSING UNIT REFRIGERANT PIPING
NOT TO SCALE



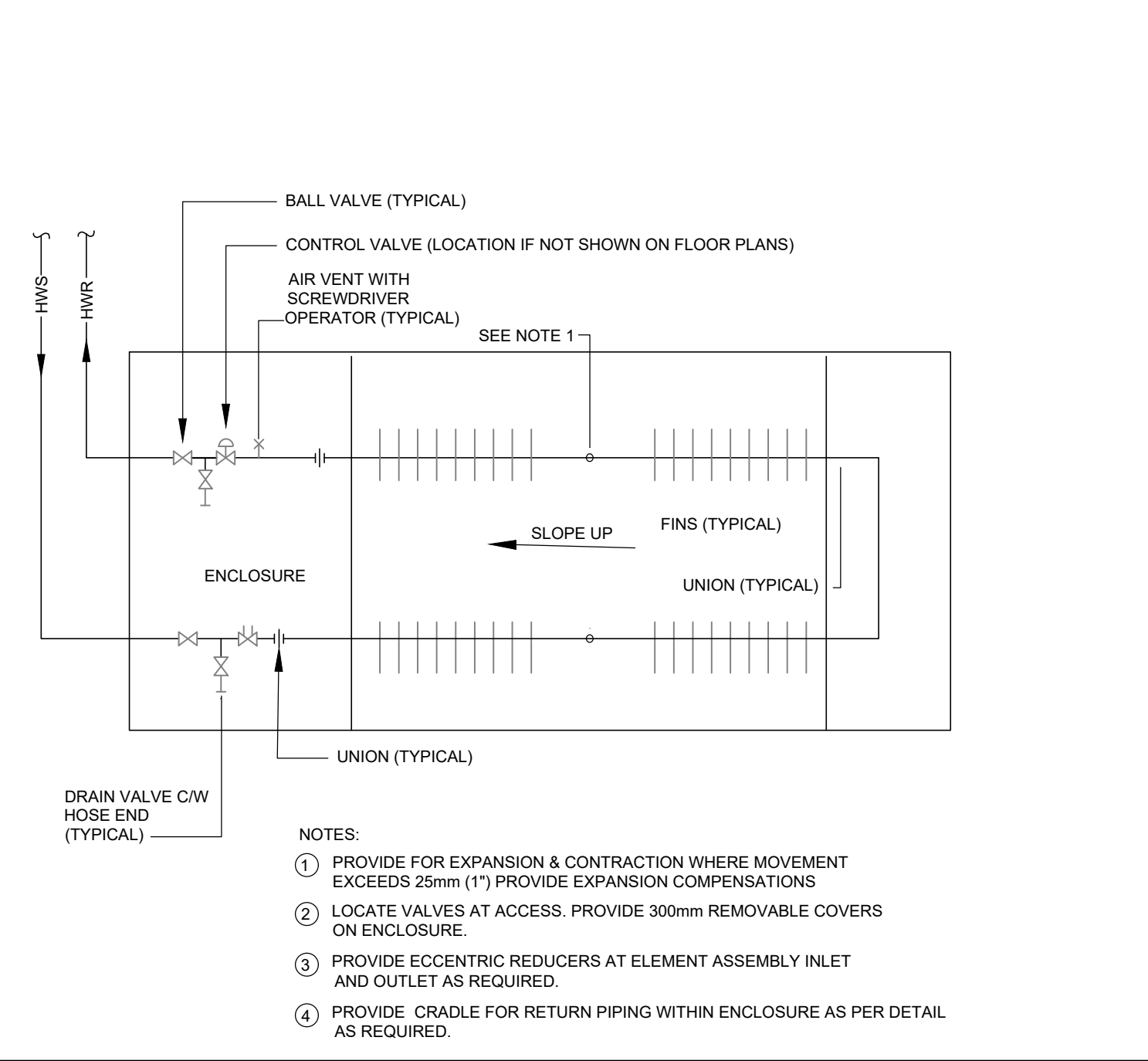
23 82 39.01 CABINET UNIT HEATER
NOT TO SCALE



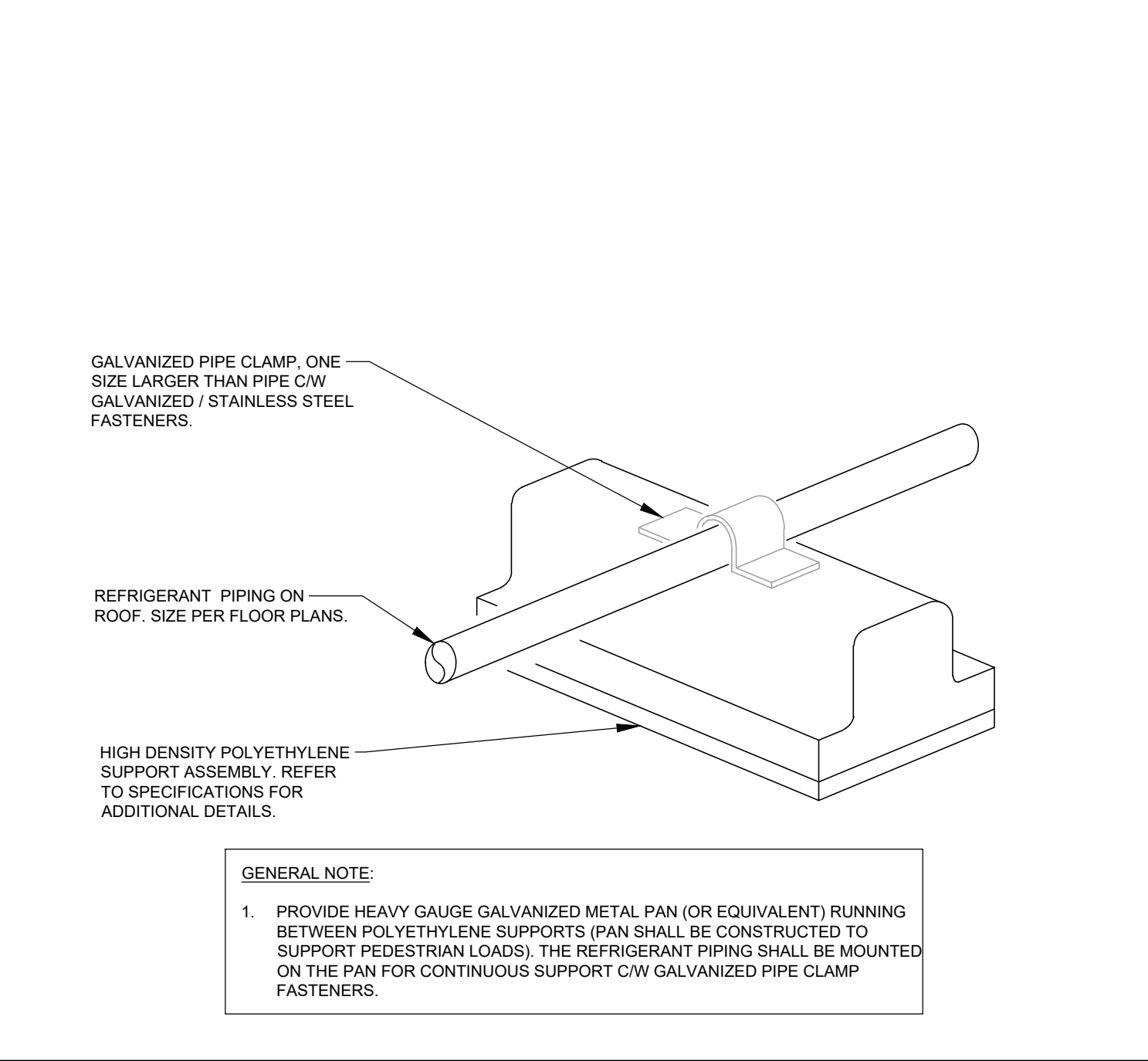
20 05 00.12 DETAIL OF PIPING PENETRATION THROUGH WALL
NOT TO SCALE



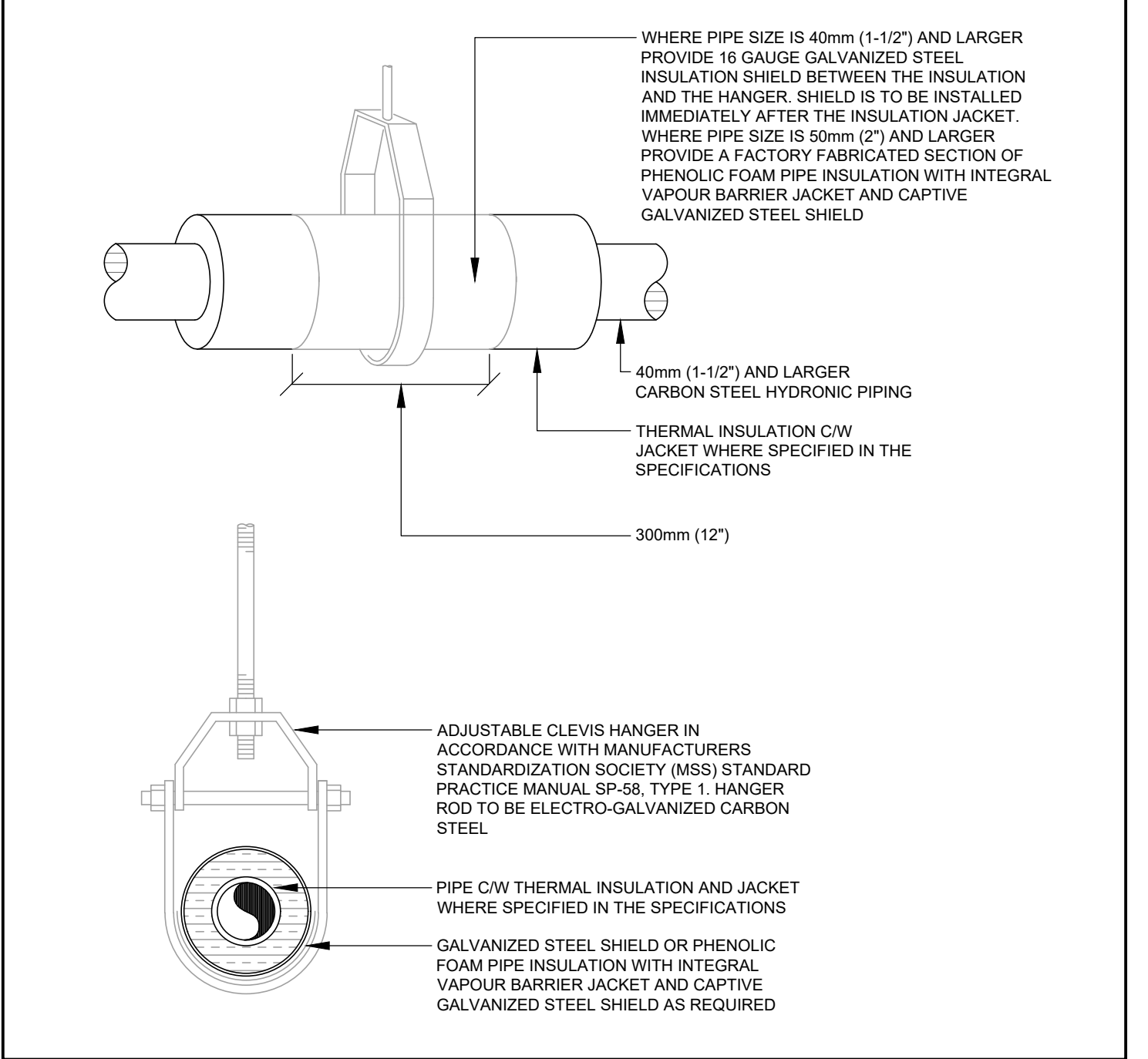
CSV Renaissance Addition
1226 Lockhart Rd
Burlington, ON L7S 1H1
PROJECT CODE: ED-22-018
DATE: 2022-11-09
SCALE: AS SHOWN
STATUS:



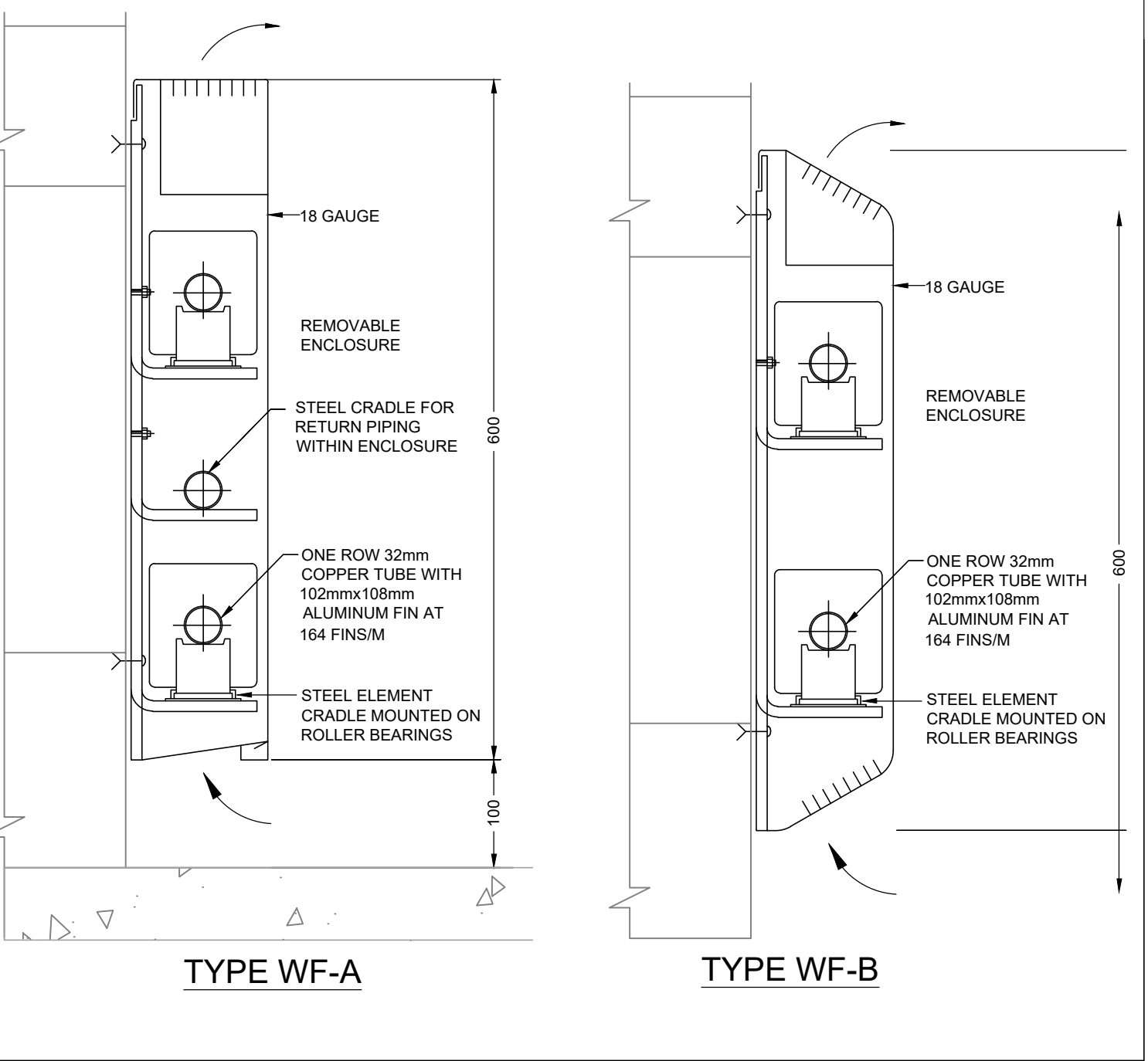
23 82 36.01 FINNED TUBE RADIATION PIPING DETAIL (UP FEED)
NOT TO SCALE



23 23 00.01 REFRIGERANT PIPING SUPPORT ON ROOF
NOT TO SCALE

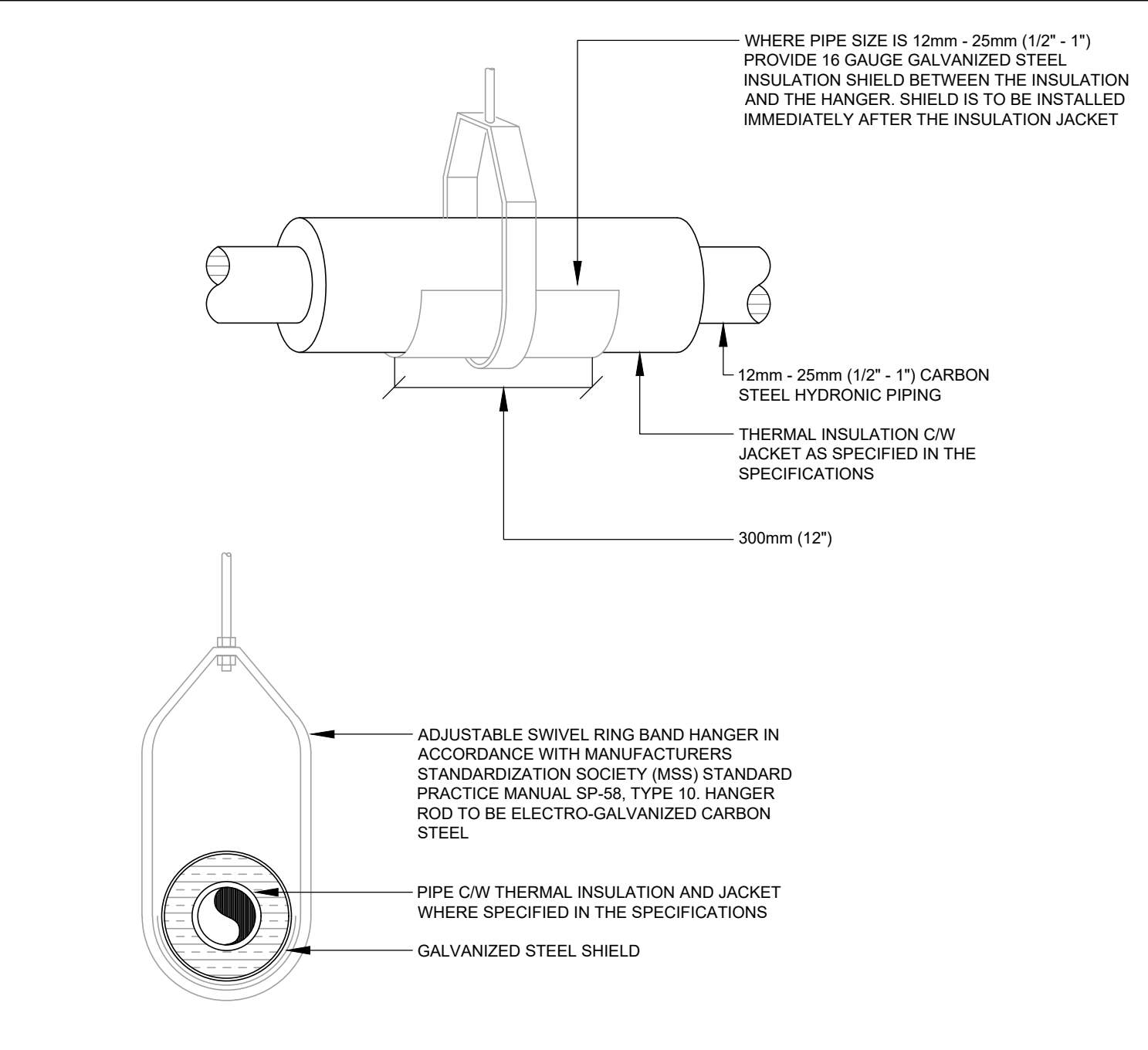


20 05 00.04 PIPING HANGERS AND SUPPORTS
NOT TO SCALE

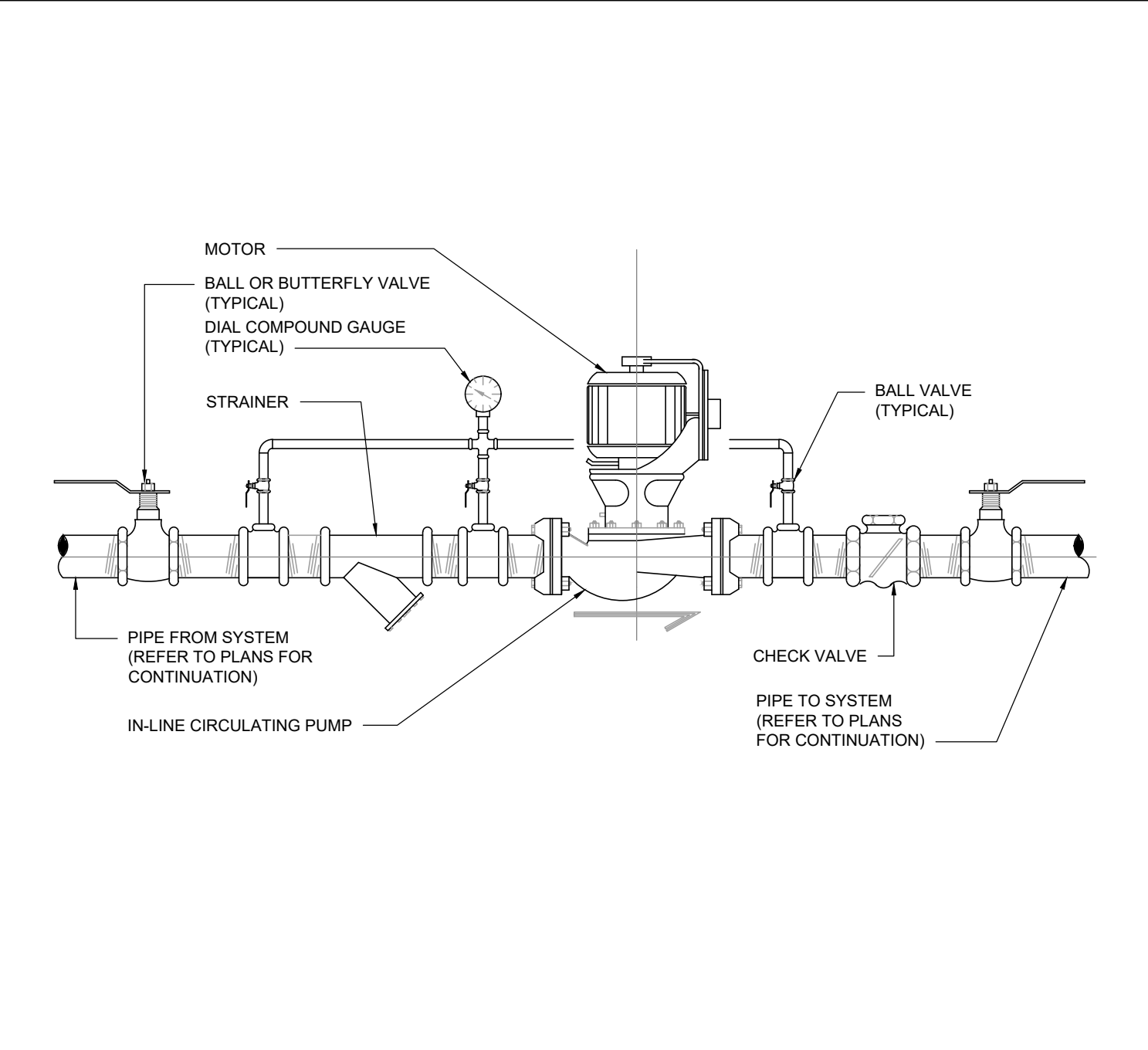


23 82 36.02 DETAIL OF TYPE (A) WALL FIN HEATER
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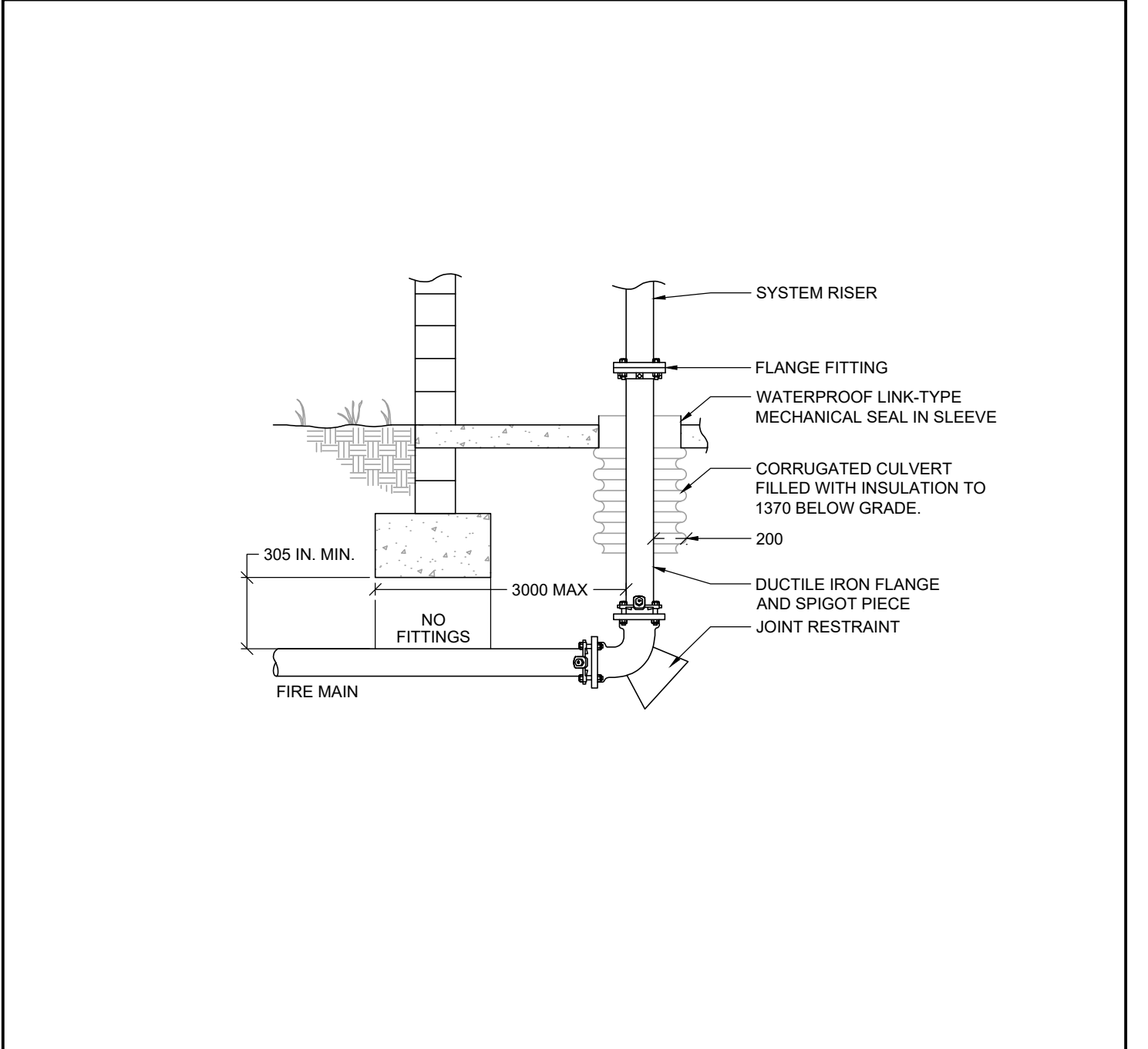
Rev	Description	Date
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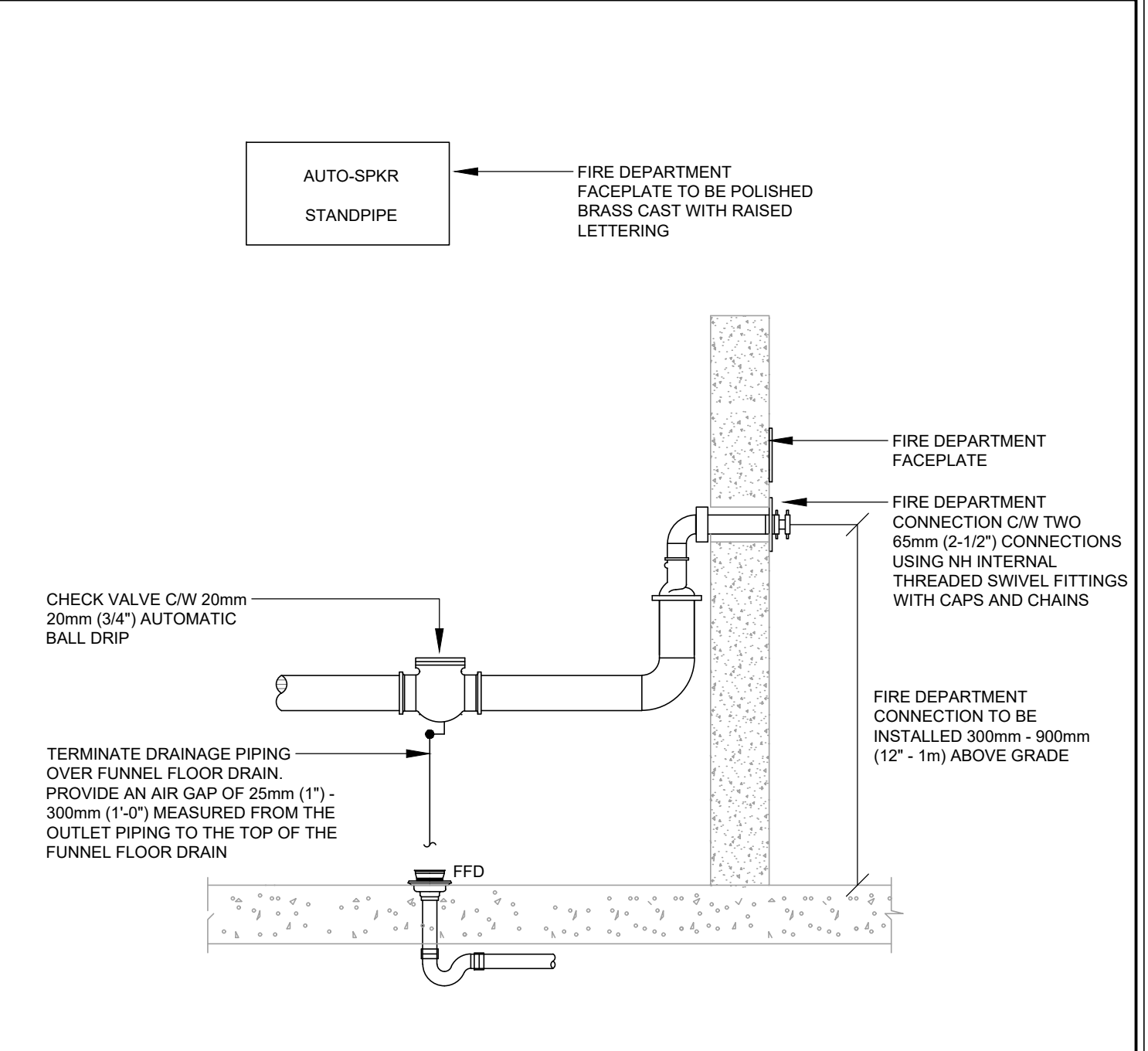
20 05 00.03 PIPING HANGERS AND SUPPORTS
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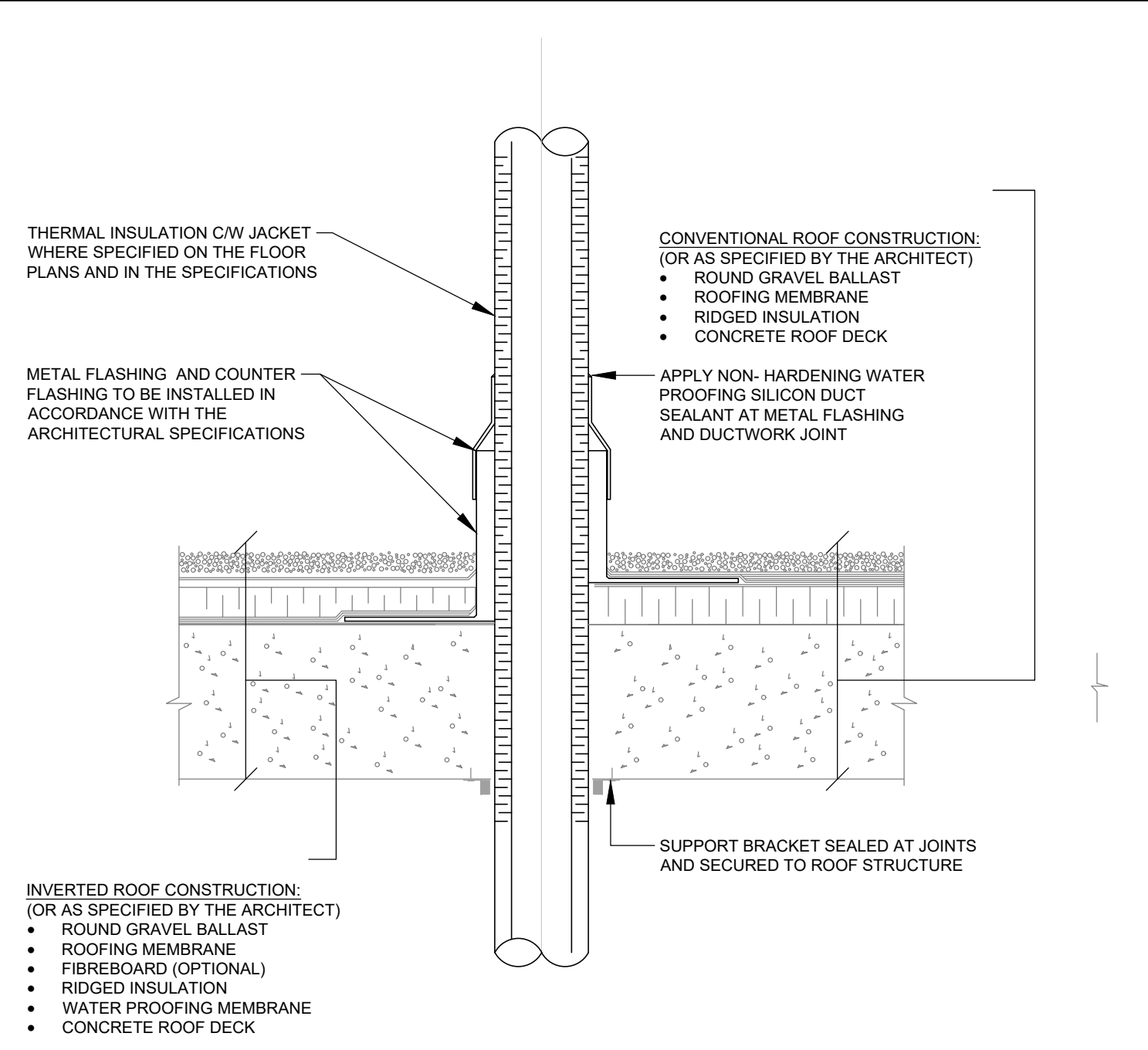
23 21 22.03 INLINE CIRCULATOR PUMP
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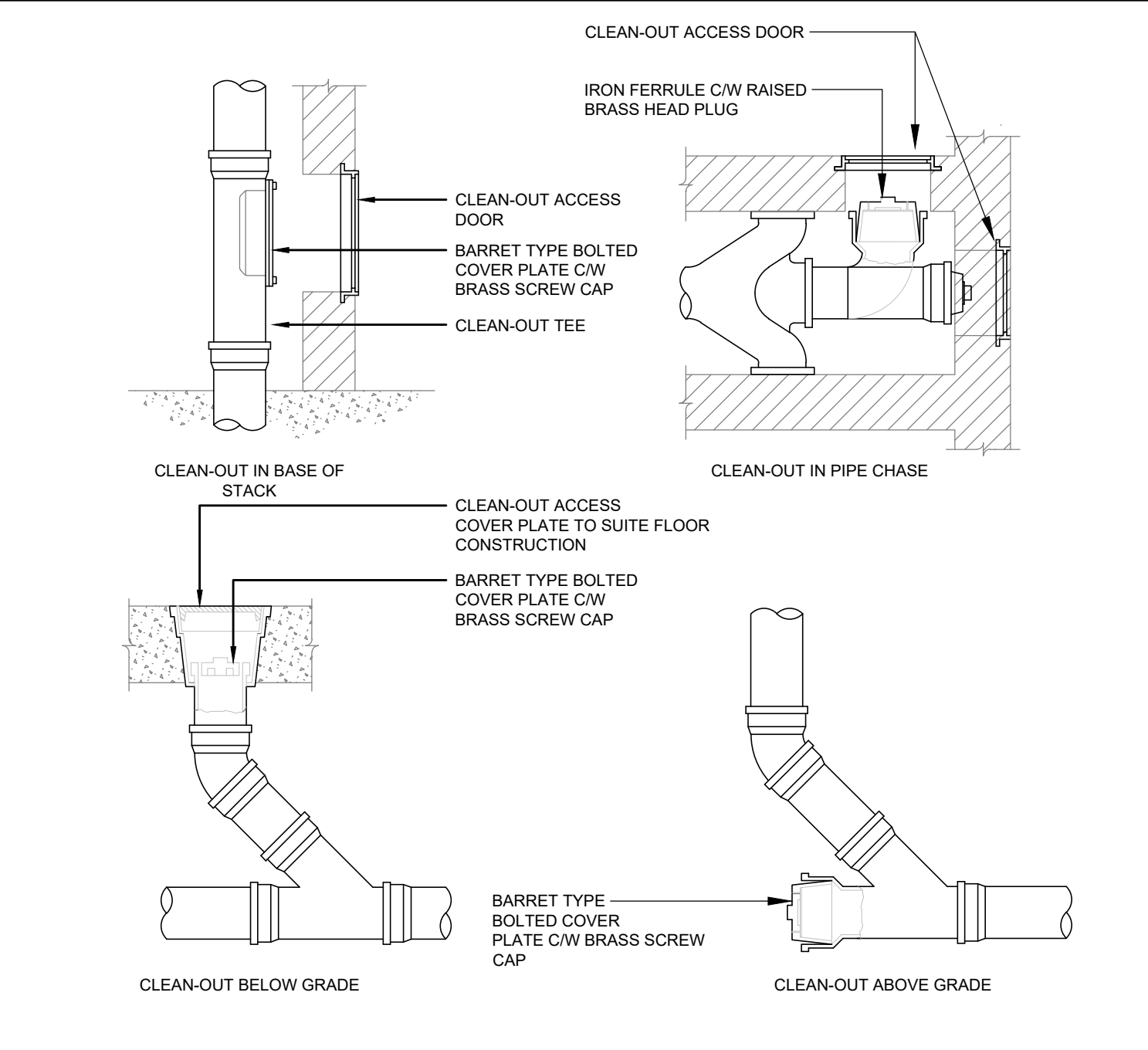
21 13 00.05 UNDERGROUND FIRE MAIN
NOT TO SCALE



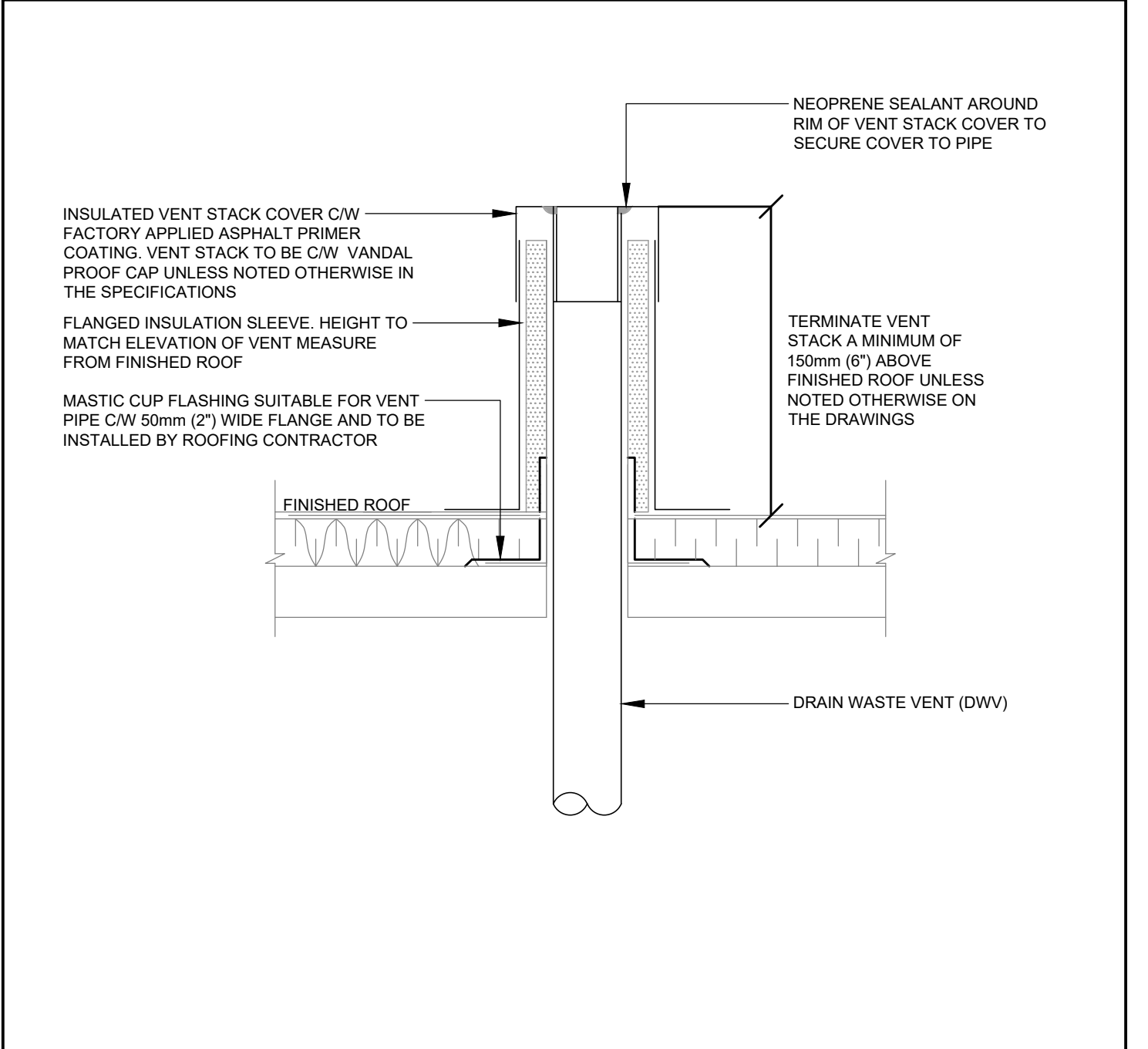
21 13 00.01 FIRE DEPARTMENT CONNECTION
NOT TO SCALE



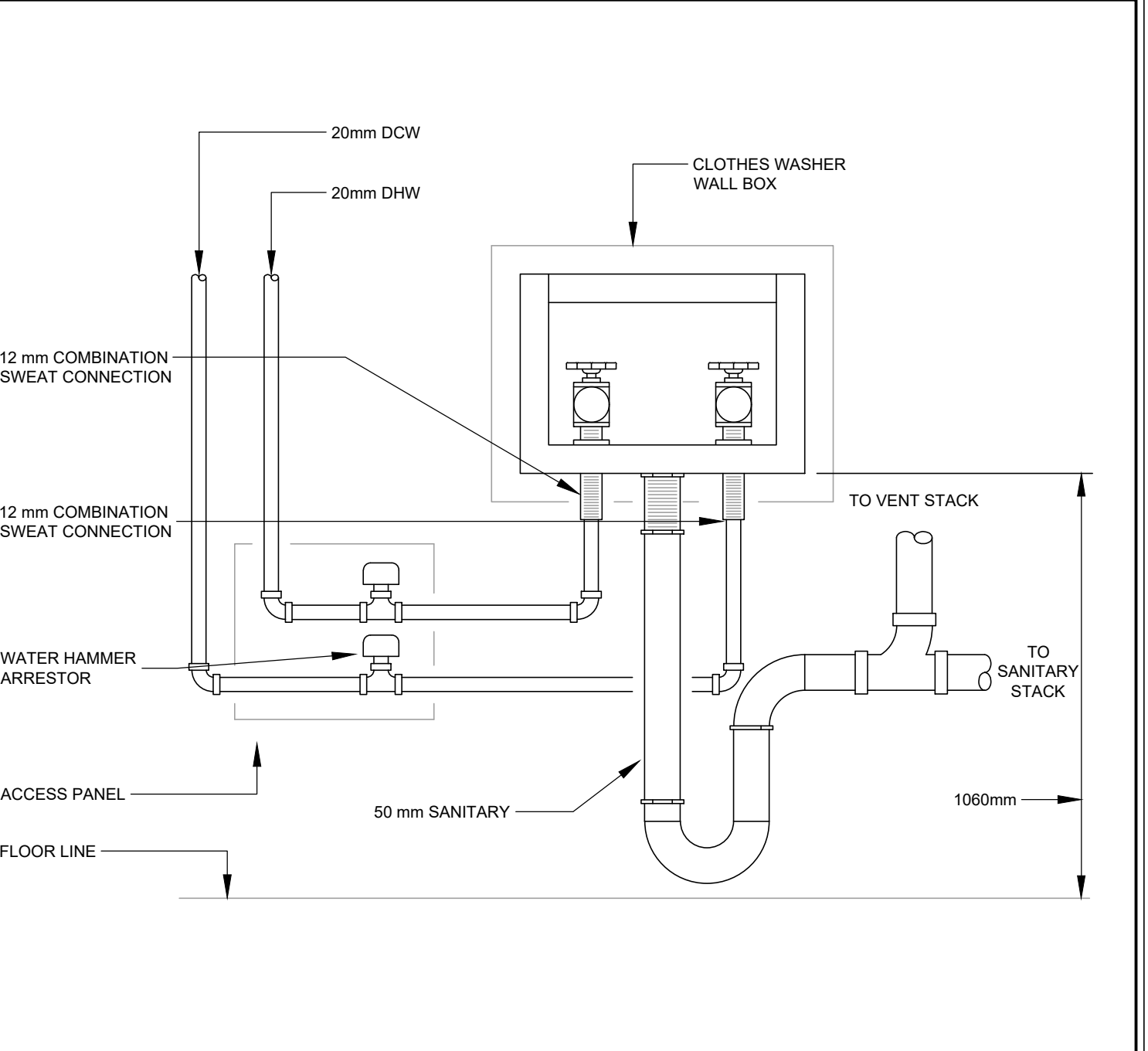
20 05 00.02 HVAC PIPE ROOF PENETRATION & FLASHING
NOT TO SCALE



22 13 00.02 SANITARY & STORM WATER CLEANOUTS
NOT TO SCALE



22 13 00.01 DWV ROOF PENETRATION & VENT CAP COVER
NOT TO SCALE



22 30 00.02 LAUNDRY BOX
NOT TO SCALE



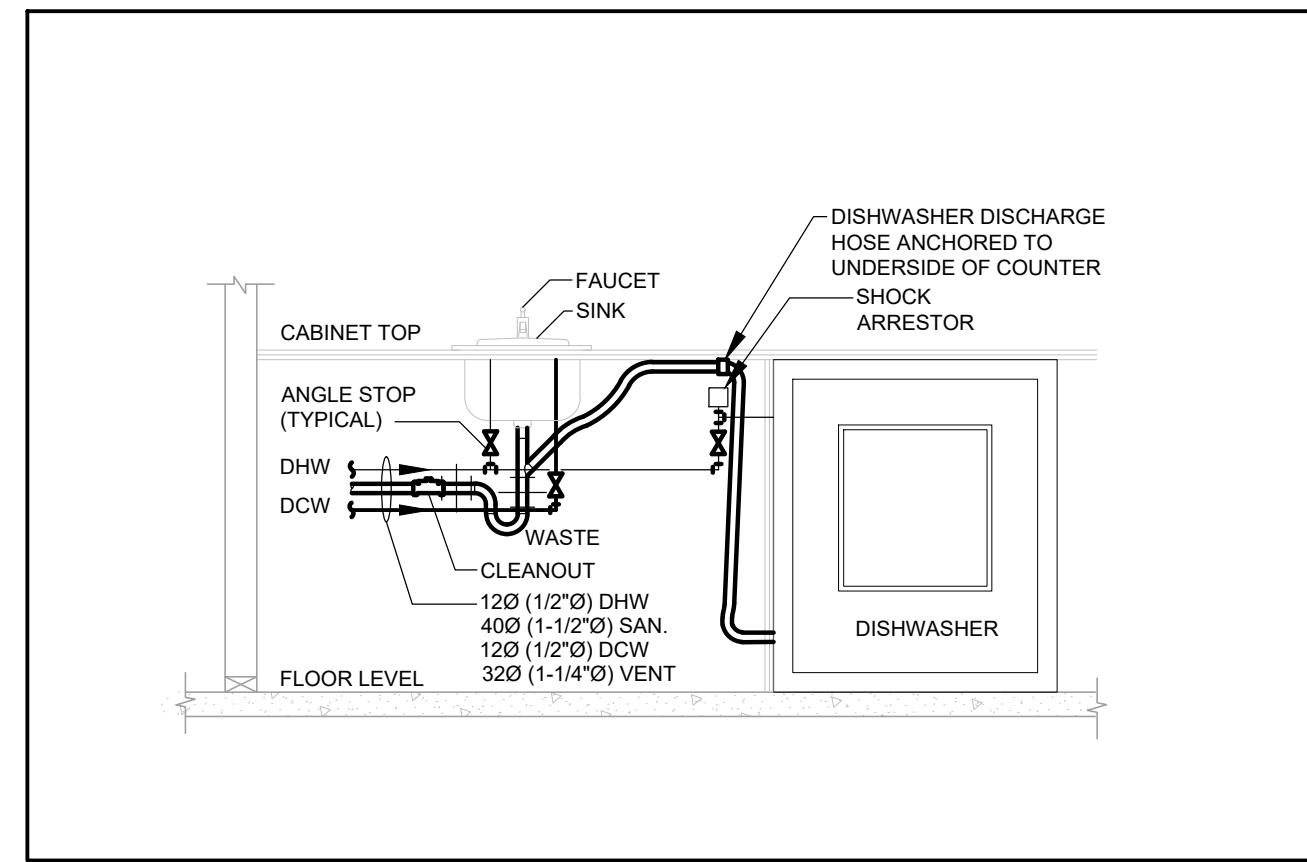
4 250 ROWNTREE DAIRY RD, WOODBRIDGE, ON
TEL: 905-507-0800
3 WEB: WWW.QUASARGROUP.COM

CSV Renaissance Addition
1226 Lockhart Rd
Burlington, ON L7S 1H1

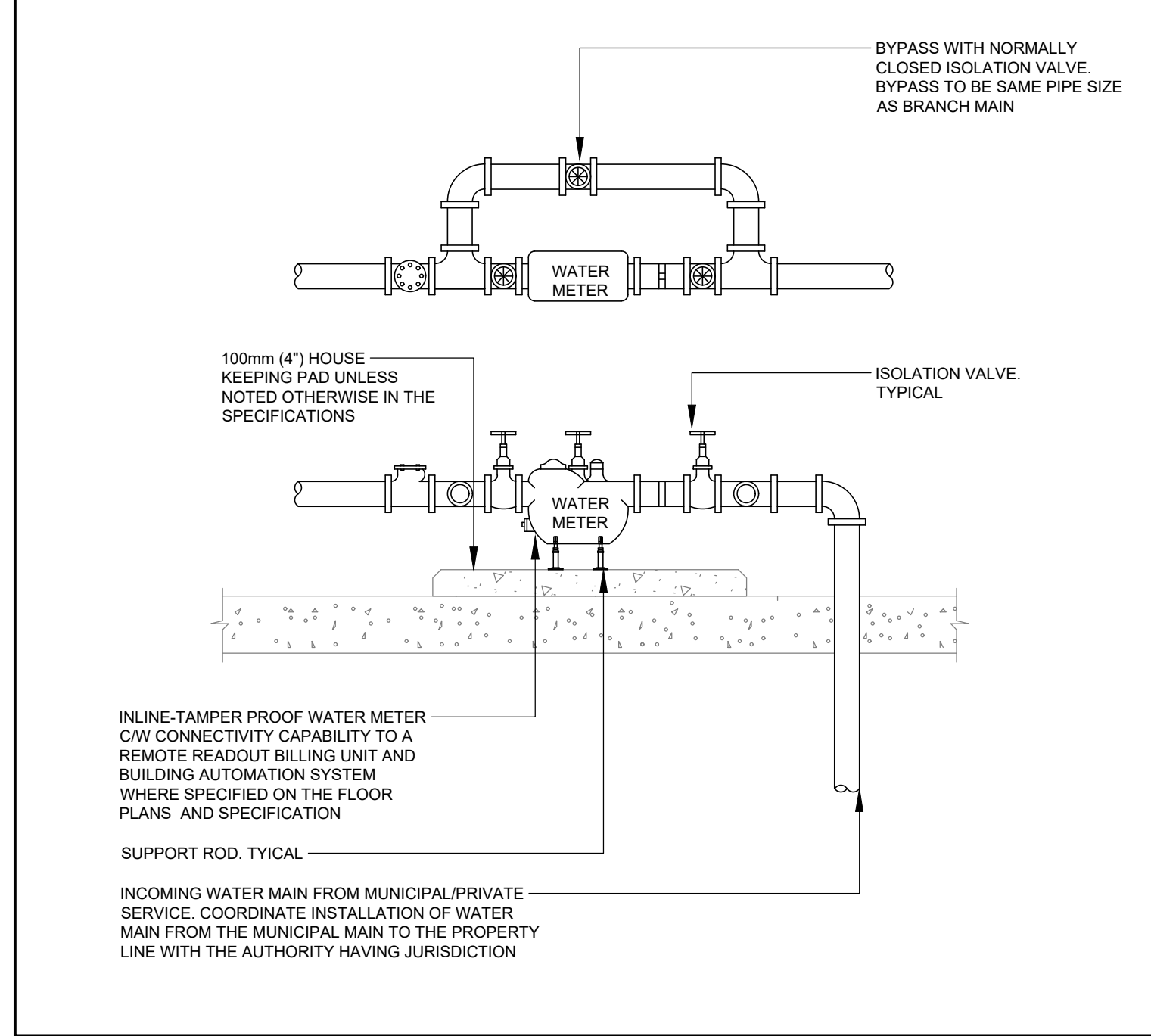
PROJECT CODE: ED-22-018
SCALE: AS SHOWN
DATE: 2022-11-09
STATUS:

MECHANICAL DETAILS 2

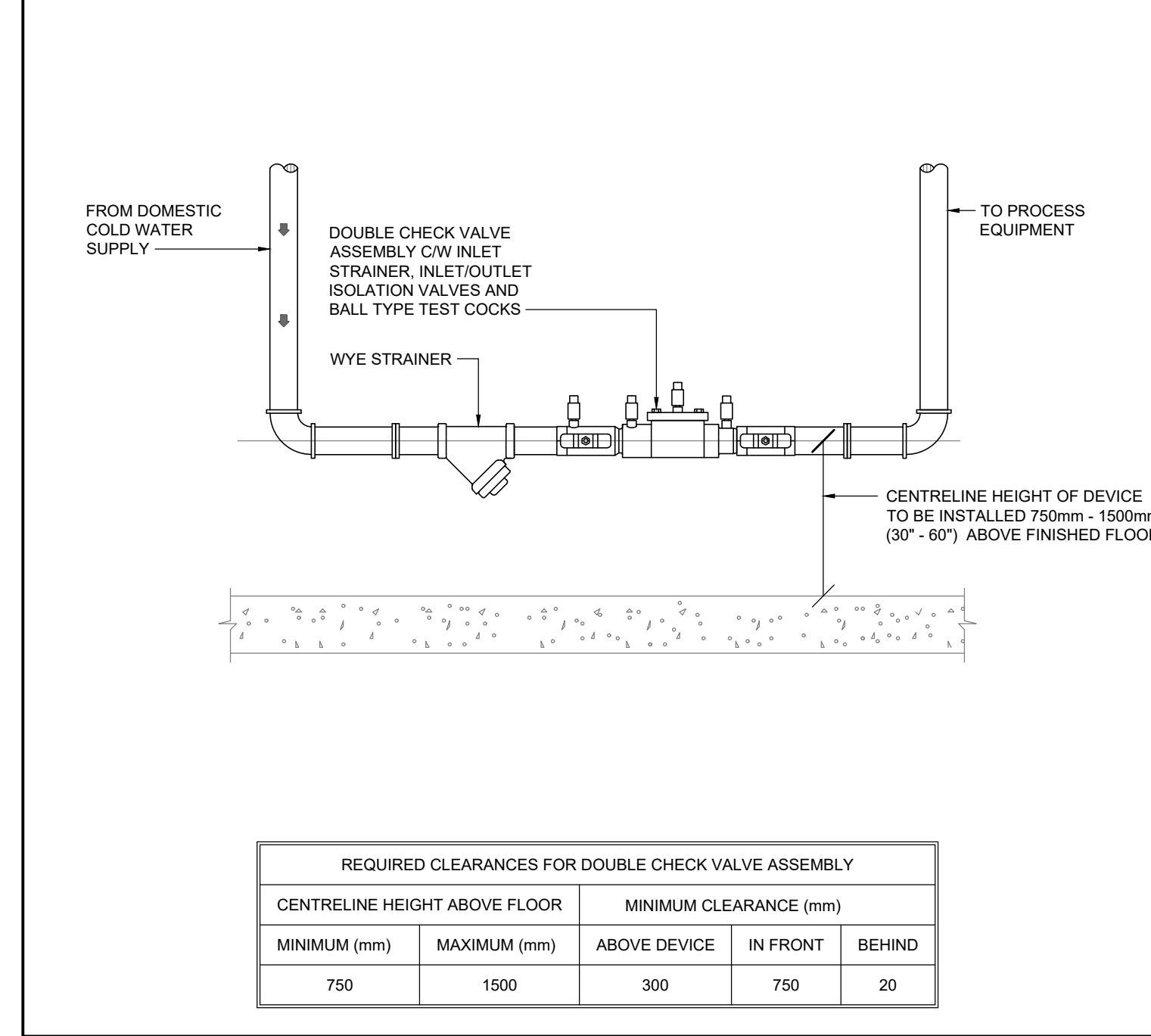




KITCHEN SINK AND DISHWASHER PLUMBING CONNECTIONS
NOT TO SCALE

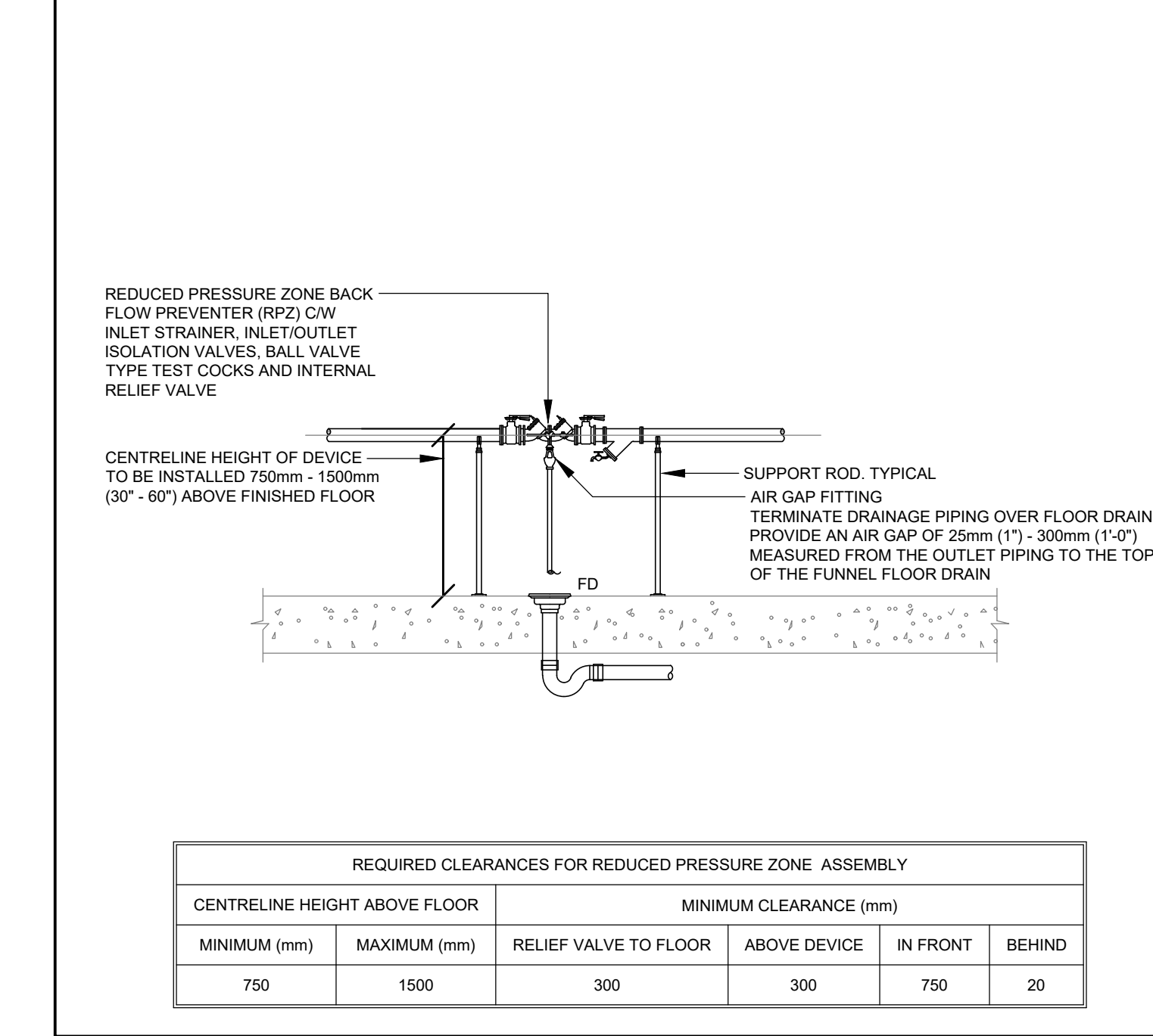


22 11 00.03 MUNICIPAL/PRIVATE WATER METER
NOT TO SCALE



22 11 00.02 DOUBLE CHECK VALVE ASSEMBLY
NOT TO SCALE

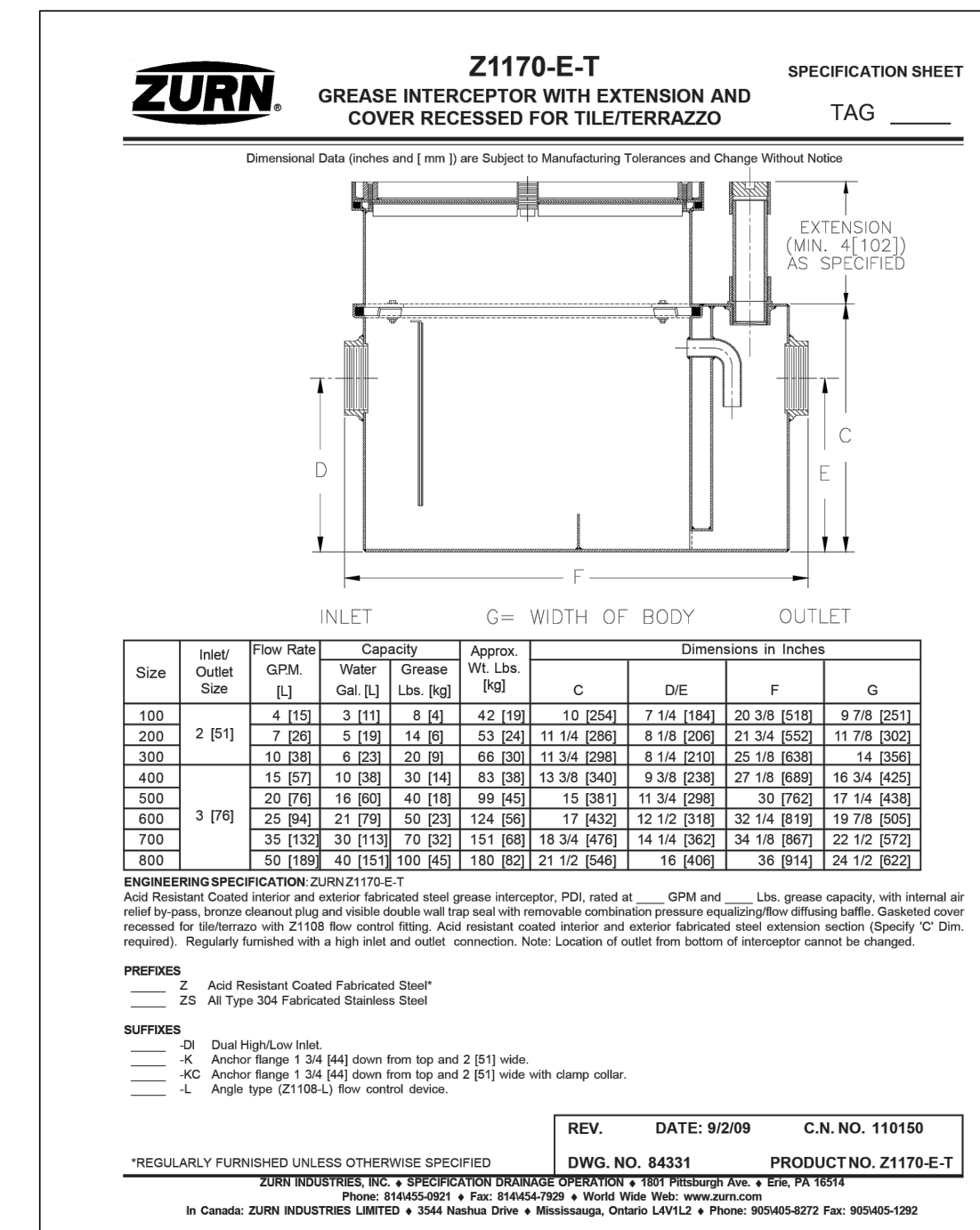
REQUIRED CLEARANCES FOR DOUBLE CHECK VALVE ASSEMBLY					
CENTRELINE HEIGHT ABOVE FLOOR		MINIMUM CLEARANCE (mm)			
MINIMUM (mm)	MAXIMUM (mm)	ABOVE DEVICE	IN FRONT	BEHIND	
750	1500	300	750	20	



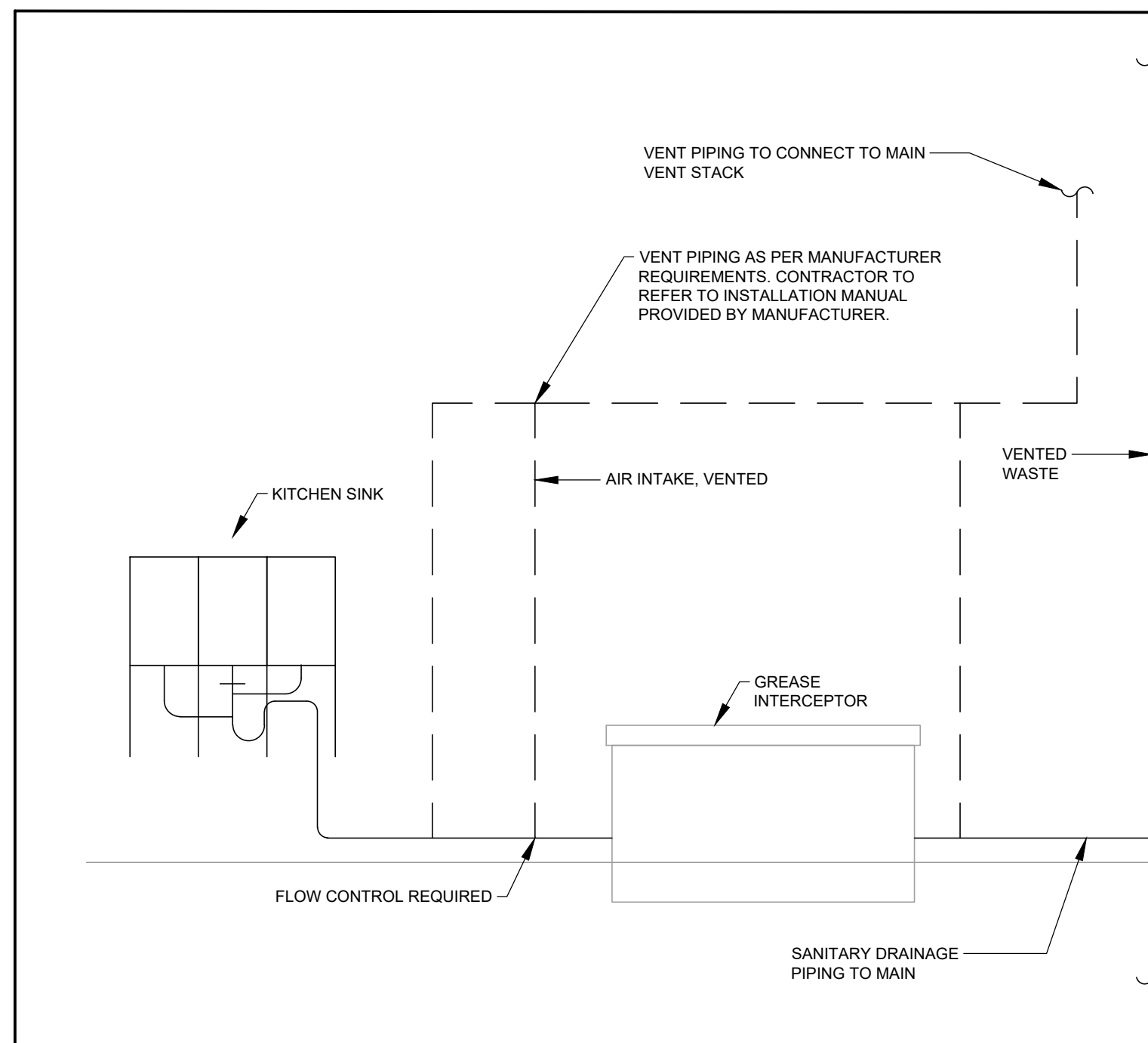
22 11 00.01 REDUCED PRESSURE ZONE ASSEMBLY
NOT TO SCALE

REQUIRED CLEARANCES FOR REDUCED PRESSURE ZONE ASSEMBLY					
CENTRELINE HEIGHT ABOVE FLOOR		MINIMUM CLEARANCE (mm)			
MINIMUM (mm)	MAXIMUM (mm)	RELIEF VALVE TO FLOOR	ABOVE DEVICE	IN FRONT	BEHIND
750	1500	300	300	750	20

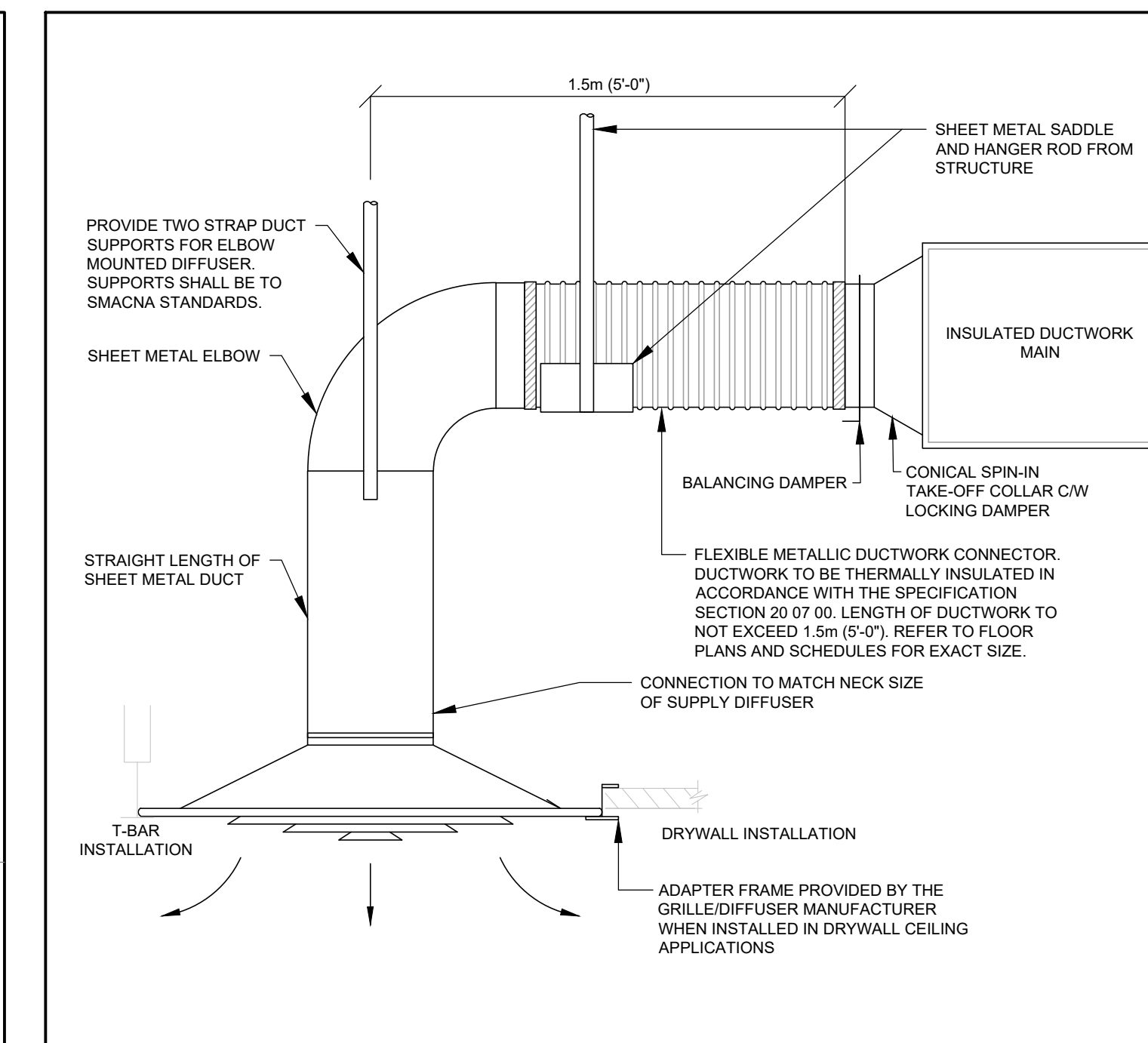
Rev	Description	Date
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8	Issued for Tender	2025-01-14



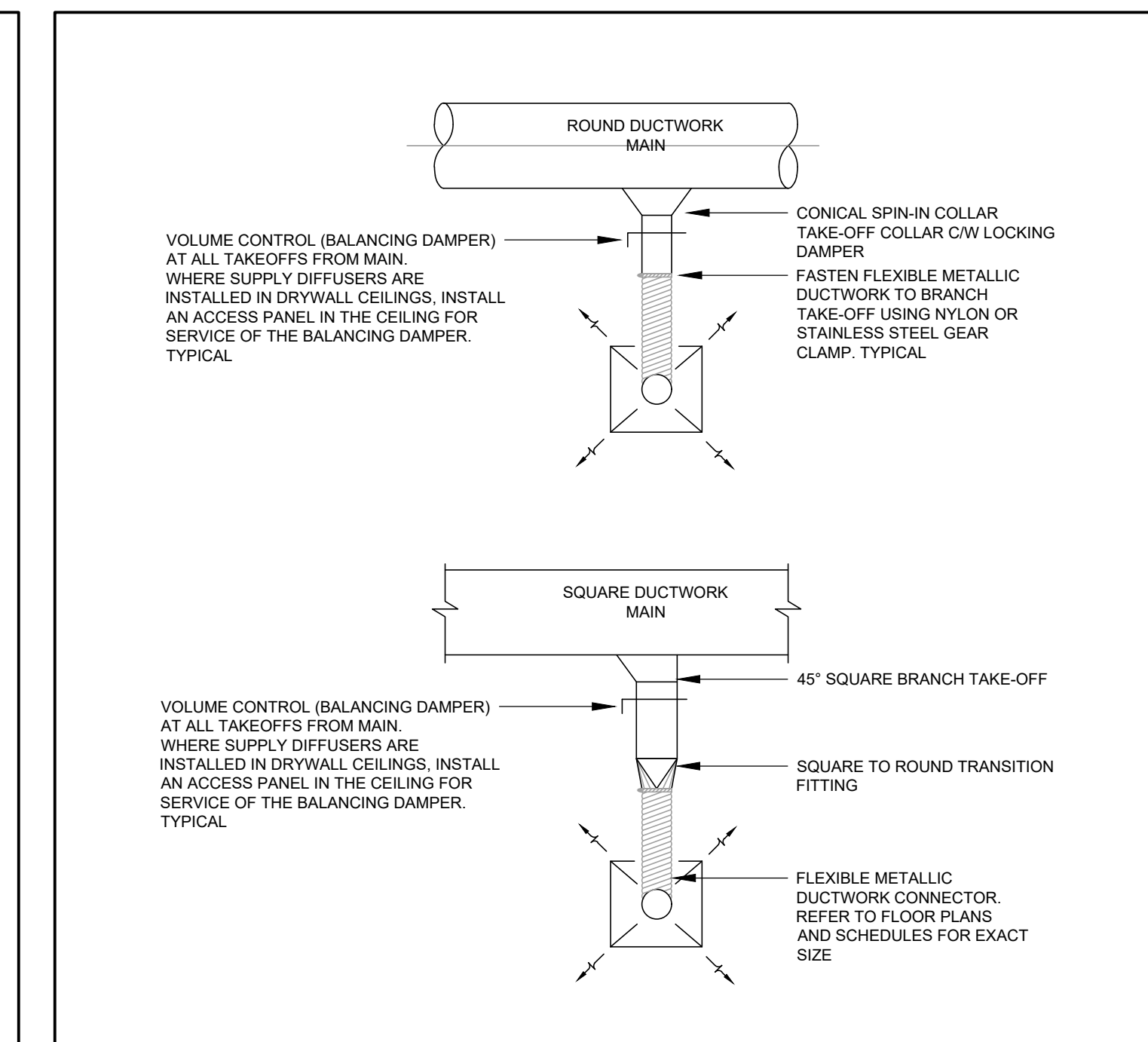
ZURN Z1170-E-T GREASE INTERCEPTOR DETAILS
NOT TO SCALE



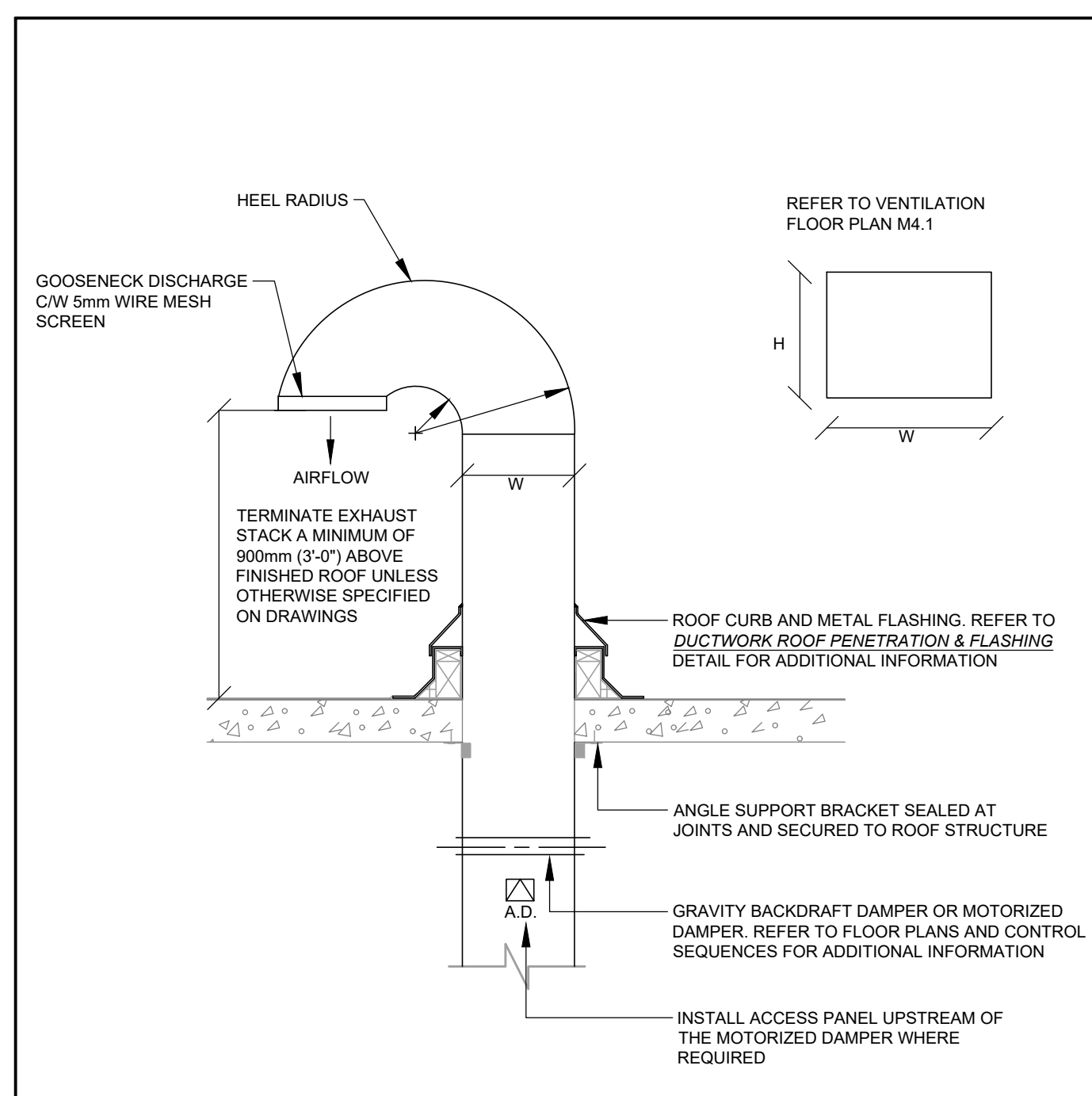
GREASE INTERCEPTOR DRAINAGE/VENT PIPING ARRANGEMENT
NOT TO SCALE



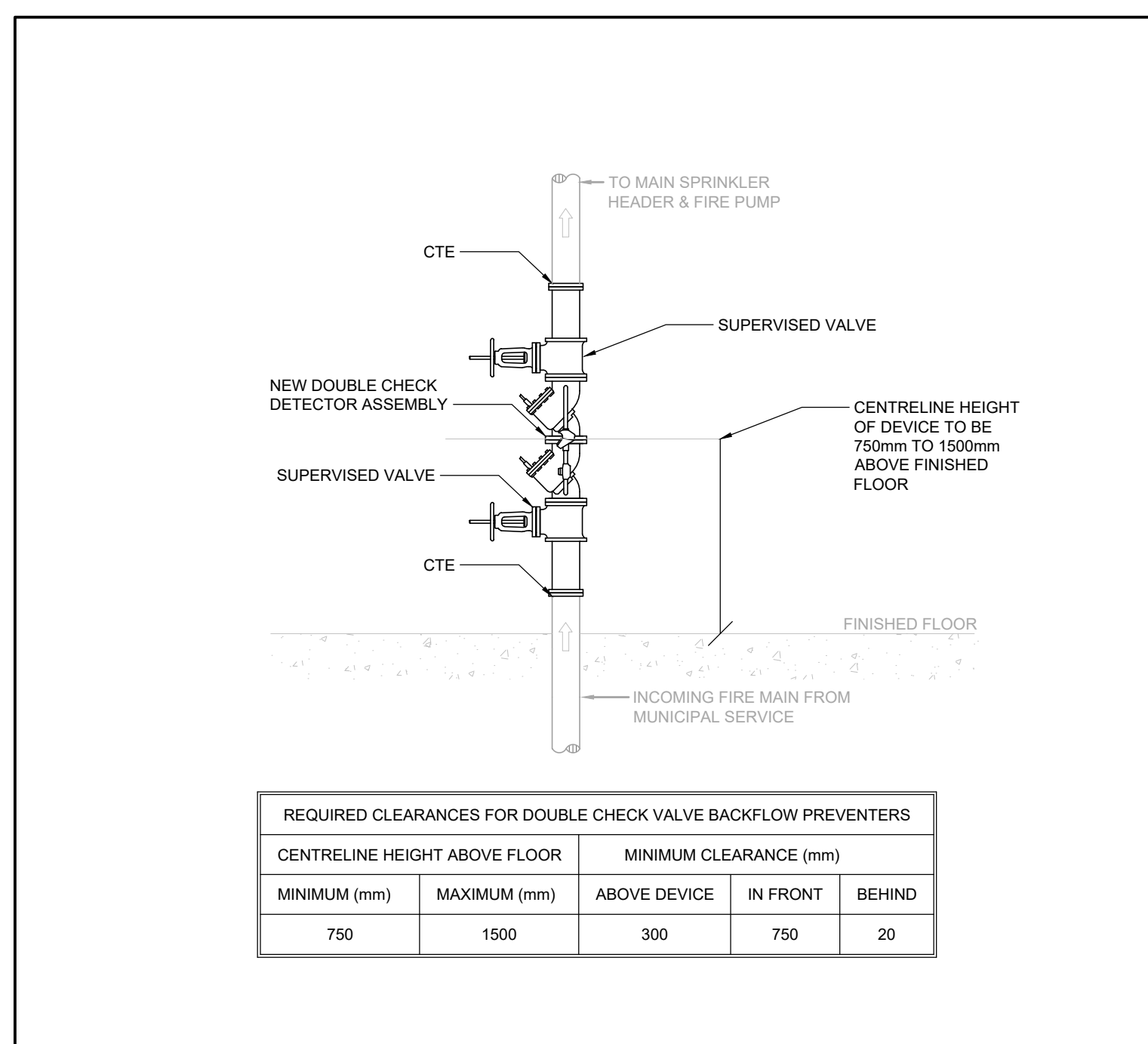
23 30 09.01 FLEXIBLE METALLIC DUCTWORK
NOT TO SCALE



23 30 09.02 FLEXIBLE METALLIC DUCTWORK CONNECTION
NOT TO SCALE

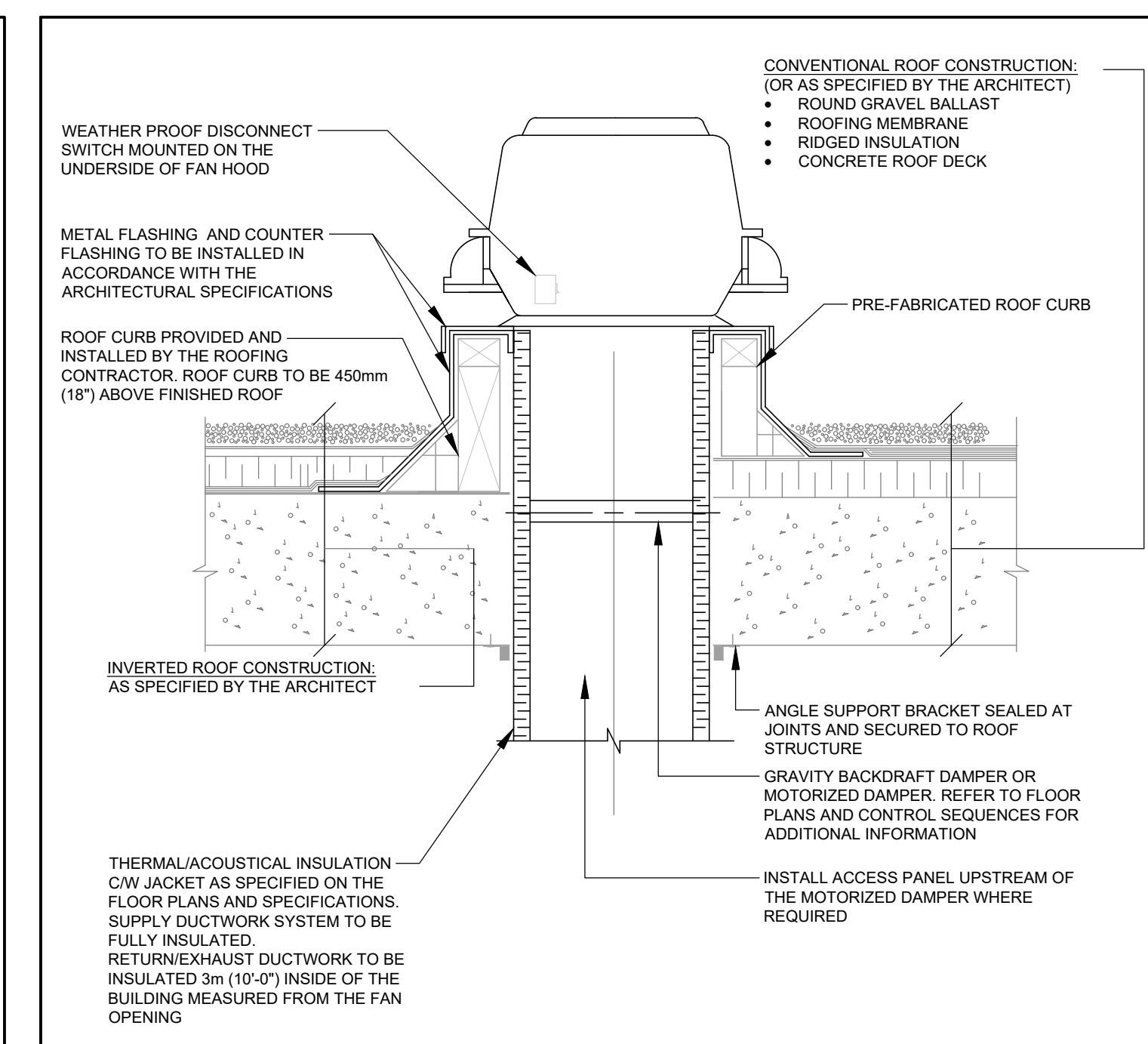


23 30 00.02 DUCT THROUGH ROOF PENETRATION & TERMINATION
NOT TO SCALE

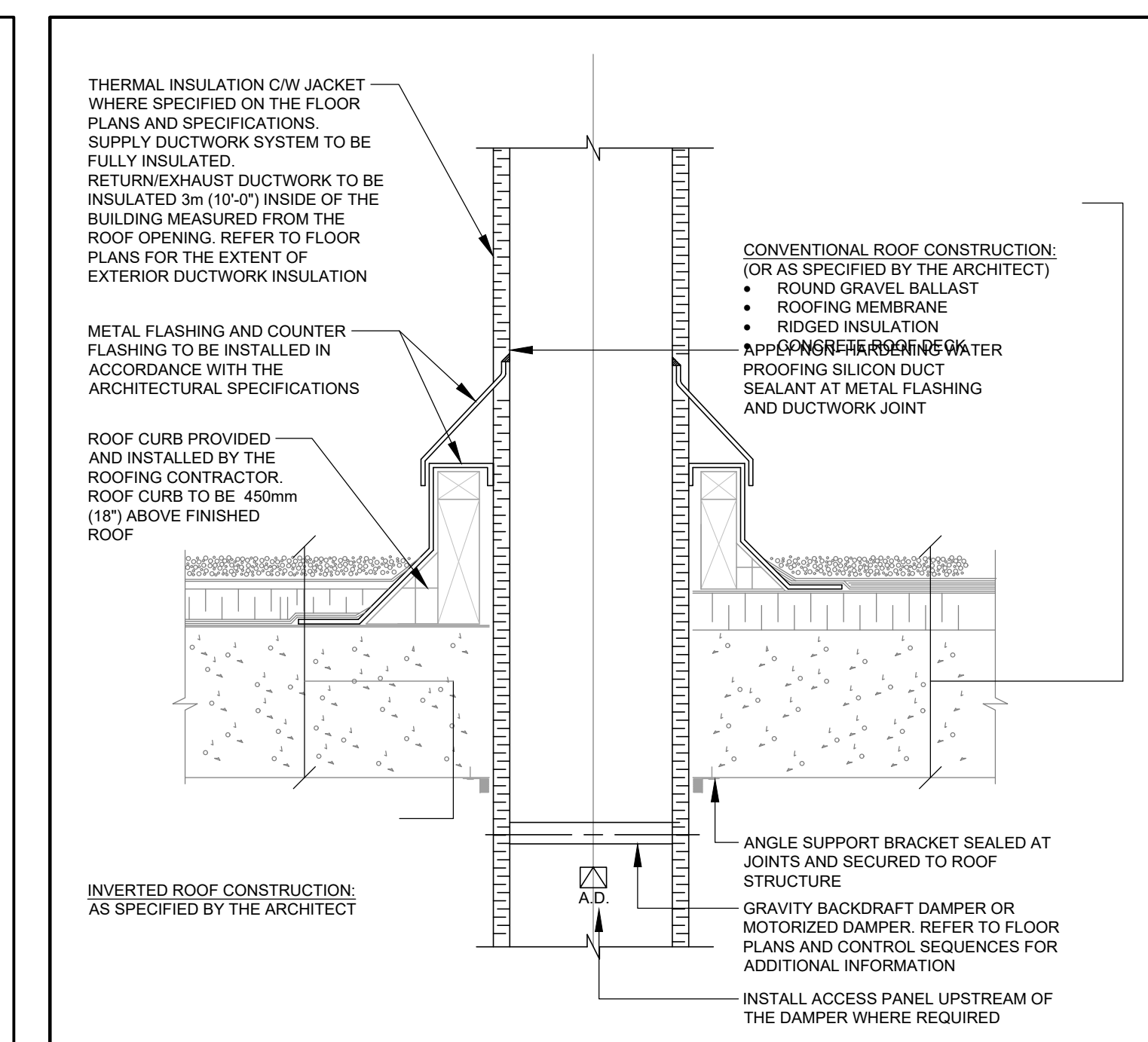


INCOMING FIRE SERVICE DOUBLE CHECK DETECTOR ASSEMBLY DETAIL
NOT TO SCALE

REQUIRED CLEARANCES FOR DOUBLE CHECK VALVE BACKFLOW PREVENTERS					
CENTRELINE HEIGHT ABOVE FLOOR		MINIMUM CLEARANCE (mm)			
MINIMUM (mm)	MAXIMUM (mm)	ABOVE DEVICE	IN FRONT	BEHIND	
750	1500	300	750	20	



23 34 00.08 ROOF MOUNTED EXHAUST FAN
NOT TO SCALE

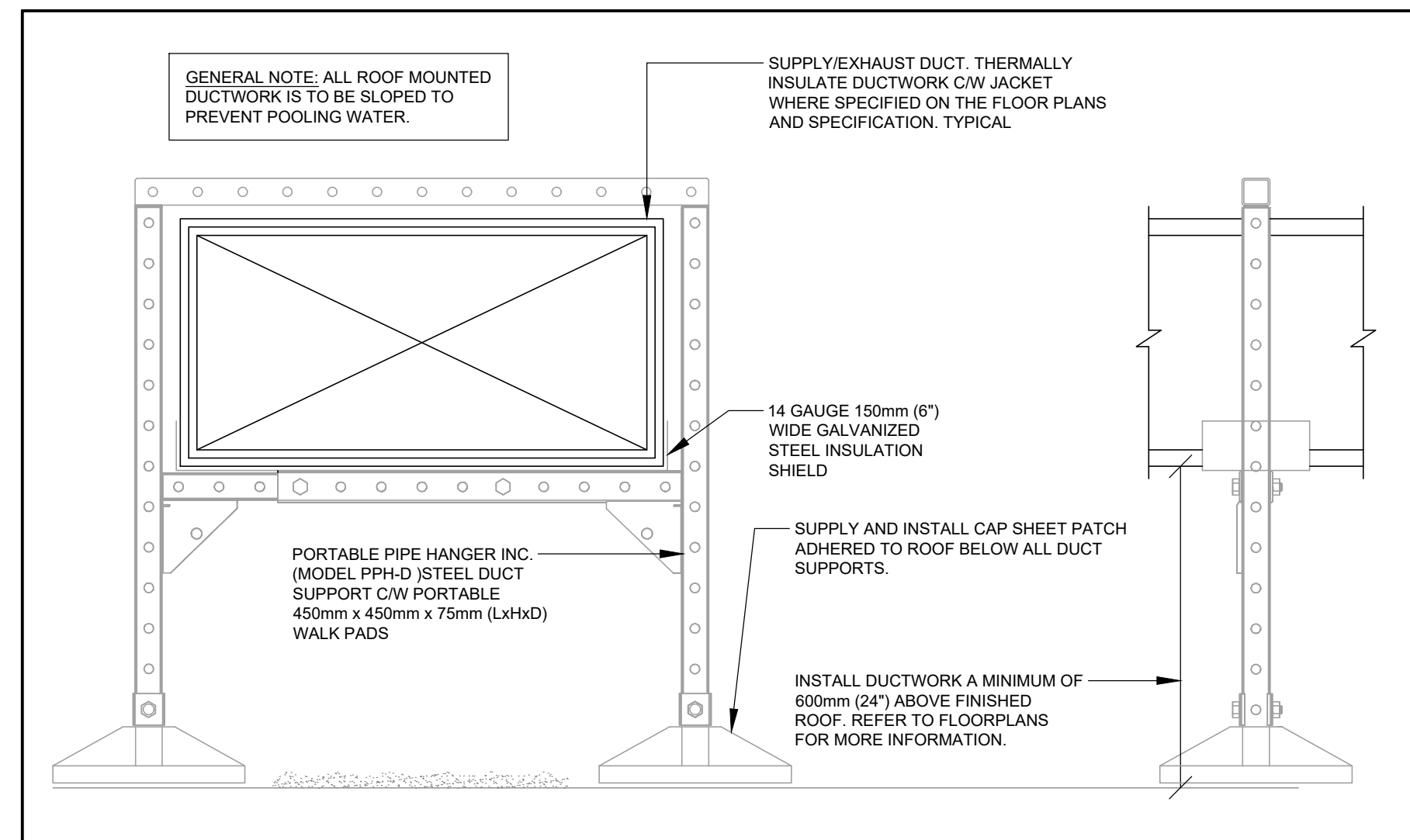


20 05 00.01 DUCTWORK ROOF PENETRATION & FLASHING
NOT TO SCALE

QUASAR CONSULTING GROUP
 4 250 ROWNTREE DAIRY RD, WOODBRIDGE, ON
 TEL: 905-507-0800
 3 WEB: WWW.QUASARGROUP.COM

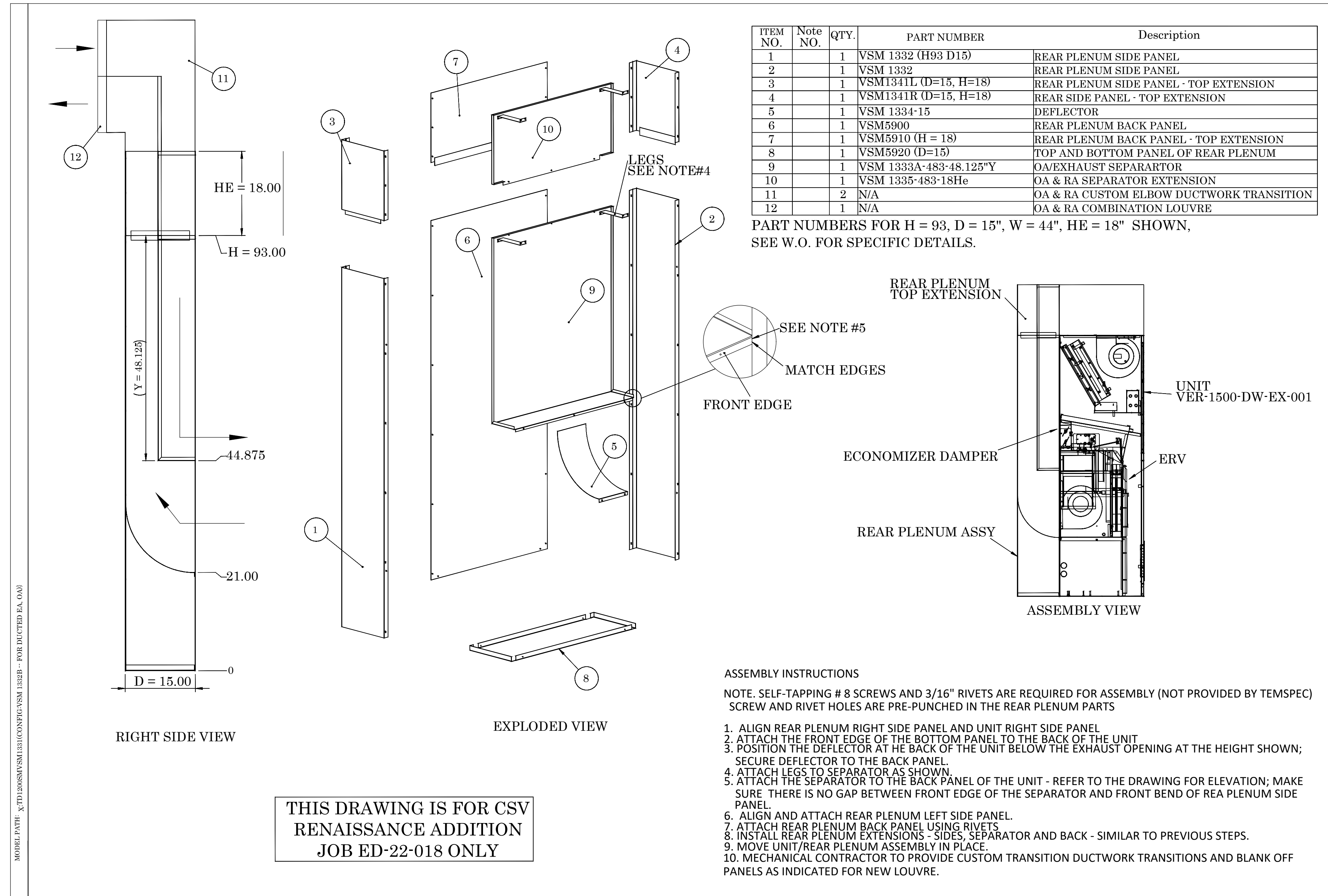
CSV Renaissance Addition
 1226 Lockhart Rd
 Burlington, ON L7S 1H1
 PROJECT CODE: ED-22-018
 DATE: 2022-11-09
 SCALE: AS SHOWN
 STATUS:

MECHANICAL DETAILS 3
 drawing number
M8.2



20 05 00.03 ROOF MOUNTED PORTABLE DUCT SUPPORT
NOT TO SCALE

Rev	Description	Date
1	Issued for Class C Costing	2022-07-27
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8	Issued for Tender	2025-01-14



ASSEMBLY INSTRUCTIONS

NOTE. SELF-TAPPING # 8 SCREWS AND 3/16" RIVETS ARE REQUIRED FOR ASSEMBLY (NOT PROVIDED BY TEMSPEC) SCREW AND RIVET HOLES ARE PRE-PUNCHED IN THE REAR PLENUM PARTS

1. ALIGN REAR PLENUM RIGHT SIDE PANEL AND UNIT RIGHT SIDE PANEL
2. ATTACH THE FRONT EDGE OF THE BOTTOM PANEL TO THE BACK OF THE UNIT
3. POSITION THE DEFLECTOR AT THE BACK OF THE UNIT BELOW THE EXHAUST OPENING AT THE HEIGHT SHOWN; SECURE DEFLECTOR TO THE BACK PANEL.
4. ATTACH LEGS TO SEPARATOR AS SHOWN.
5. ATTACH THE SEPARATOR TO THE BACK PANEL OF THE UNIT - REFER TO THE DRAWING FOR ELEVATION; MAKE SURE THERE IS NO GAP BETWEEN FRONT EDGE OF THE SEPARATOR AND FRONT BEND OF REA PLENUM SIDE PANEL.
6. ALIGN AND ATTACH REAR PLENUM LEFT SIDE PANEL.
7. ATTACH REAR PLENUM BACK PANEL USING RIVETS
8. INSTALL REAR PLENUM EXTENSIONS - SIDES, SEPARATOR AND BACK - SIMILAR TO PREVIOUS STEPS.
9. MOVE UNIT/REAR PLENUM ASSEMBLY IN PLACE.
10. MECHANICAL CONTRACTOR TO PROVIDE CUSTOM TRANSITION DUCTWORK TRANSITIONS AND BLANK OFF PANELS AS INDICATED FOR NEW LOUVRE.

**THIS DRAWING IS FOR CSV RENAISSANCE ADDITION
JOB ED-22-018 ONLY**

UNIT VENTILATOR VER-1500-DW-EX-001 DETAIL SHEET
NOT TO SCALE



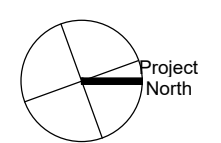
4 250 ROWNTREE DAIRY RD, WOODBRIDGE, ON
TEL: 905-507-0800
3 WEB: WWW.QUASARG.COM

CSV Renaissance Addition

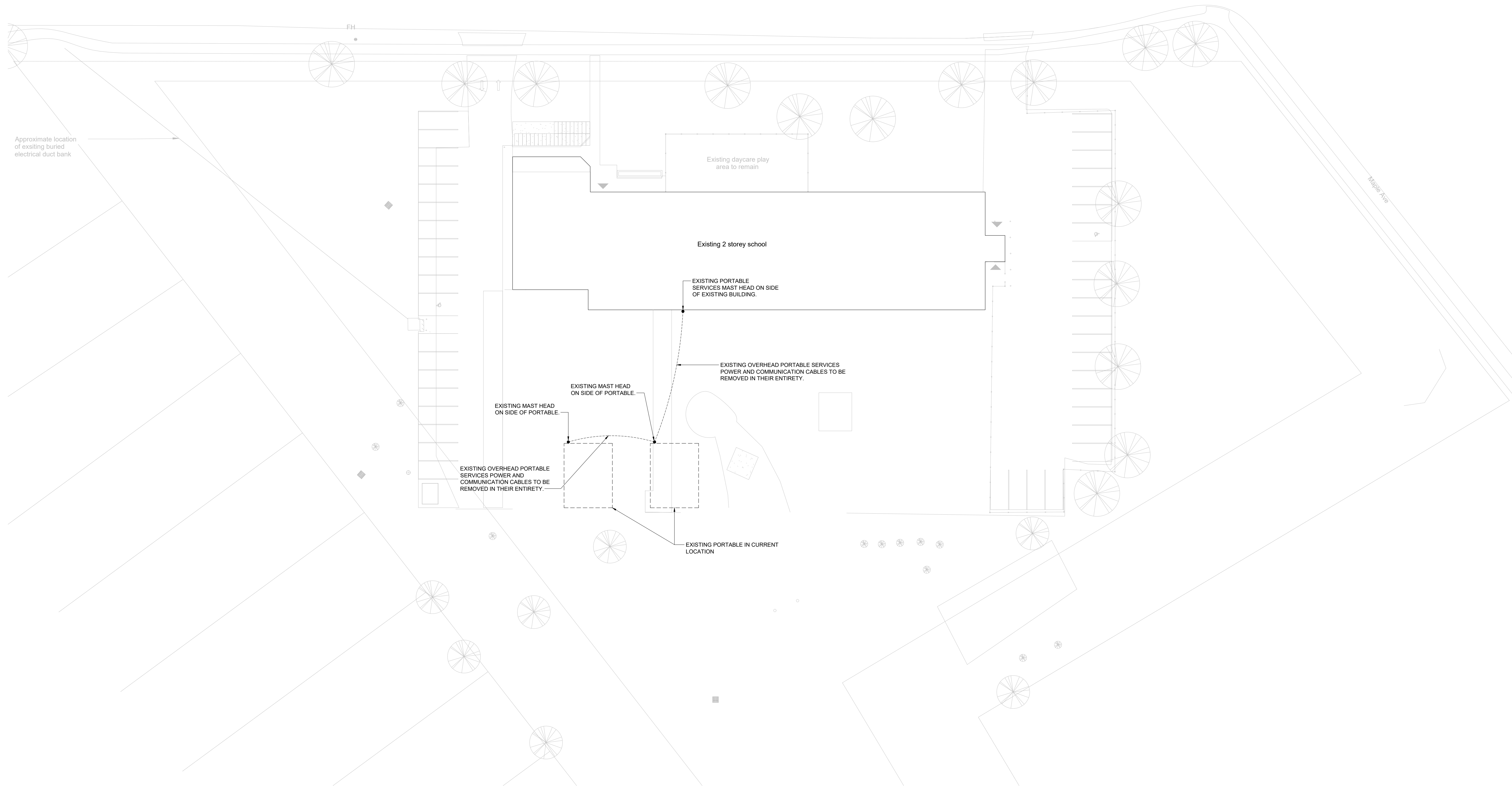
1226 Lockhart Rd
Burlington, ON L7S 1H1

PROJECT CODE: ED-22-018
SCALE: AS SHOWN
DATE: 2022-11-09
STATUS:

MECHANICAL DETAILS 4



Project North
M8.3



Rev	Description	Date
1	Issued for Class C Costing	2022-07-27
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6	Issued for 90% CD Review	2024-10-01
7	Issued for Building Permit	2024-12-04
8	Issued for Tender	2025-01-14



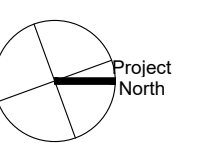
250 ROWNTREE DAIRY RD, WOODBRIDGE, ON
 TEL: 905-507-0800
 WEB: WWW.QUASARG.COM

CSV Renaissance Addition

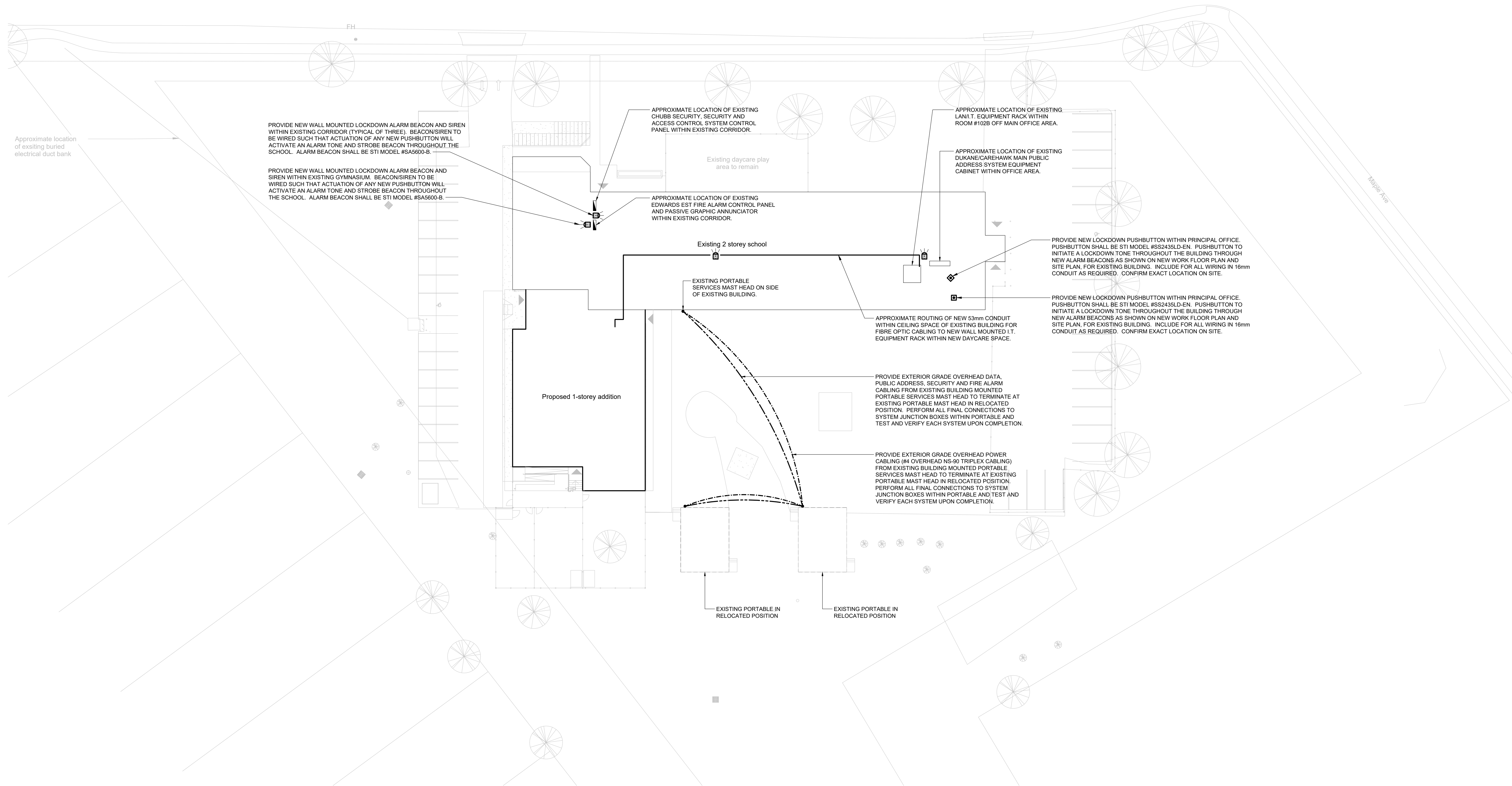
1226 Lockhart Rd
 Burlington, ON L7S 1H1

PROJECT CODE: ED-22-018	SCALE: 1:300
DATE: 2022-10-27	STATUS: Coordination

Demolition Site Plan
 Electrical



drawing number
E0.1



Rev	Description	Date
1	Issued for Class C Costing	2022-07-27
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8	Issued for Tender	2025-01-14



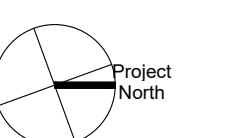
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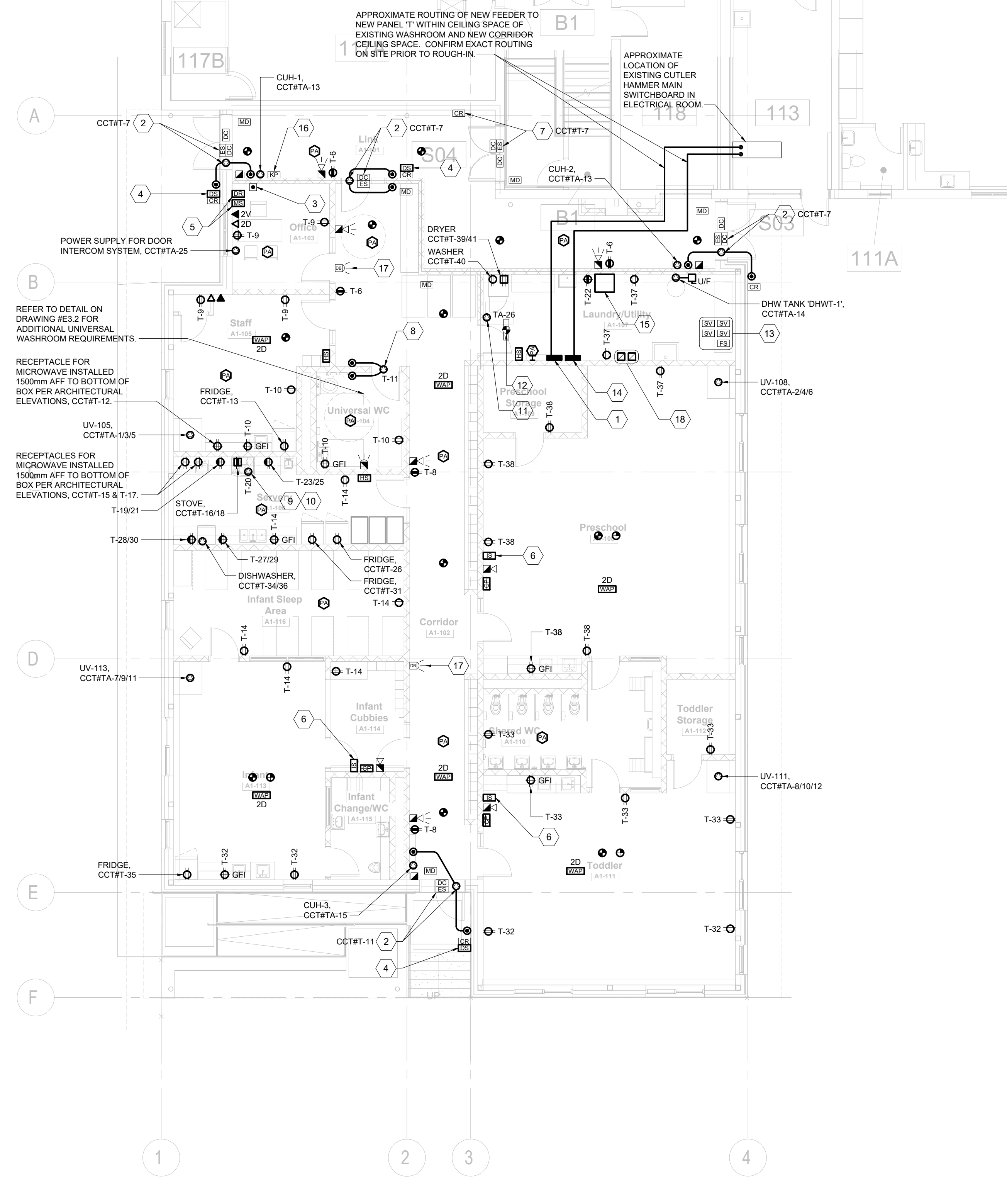
1226 Lockhart Rd
 Burlington, ON L7S 1H1

PROJECT CODE: ED-22-018	SCALE: 1:300
DATE: 2022-10-27	STATUS: Coordination

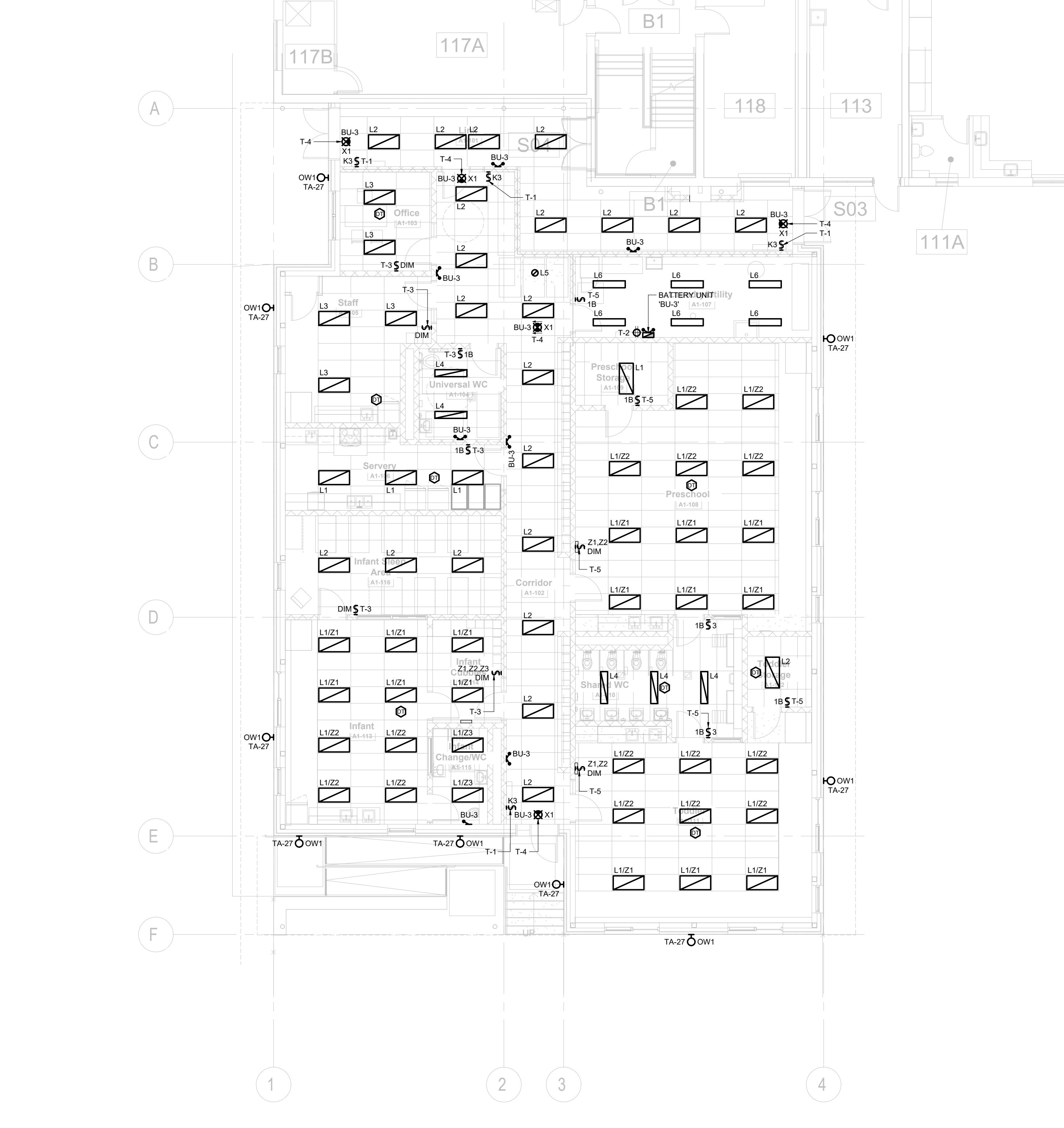
**New Work Site Plan
 Electrical**



drawing number
E0.2



- ### NEW WORK SHEET KEYNOTES
- PROVIDE NEW SURFACE MOUNTED PANELBOARD 'RP-T'. PANELBOARD TO BE INSTALLED WITHIN NEW UTILITY ROOM #107. NEW MAIN FEEDER TO BE EXTEND FROM NEW PANELBOARD TO EXISTING SWITCHBOARD LOCATED WITHIN EXISTING MAIN ELECTRICAL ROOM. REFER TO DRAWING #2.1 FOR APPROXIMATE ROUTING OF NEW FEEDER. REFER TO PANEL SCHEDULE ON DRAWING #3.1 FOR BREAKER REQUIREMENTS FOR NEW PANEL.
 - PROVIDE CONNECTION TO NEW POWER DOOR OPERATOR AND ELECTRIC STRIKE. INCLUDE FOR REQUIRED LINE AND LOAD CONNECTIONS TO ASSOCIATED WALL ACTUATORS. COORDINATE EXACT LOCATION OF ACTUATORS AND FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR ON SITE. REFER TO DETAIL ON DRAWING #2.1 FOR FURTHER INFORMATION. INCLUDE FOR FIRE ALARM INTERCONNECTION TO DOOR OPERATOR TO RELEASE DOOR HOLD FUNCTION UPON ACTIVATION OF FIRE ALARM.
 - PROVIDE NEW LOCKDOWN PUSHBUTTON WITHIN CHILDCARE OFFICE. PUSHBUTTON SHALL BE ST1 MODEL #S2435LD-EN. PUSHBUTTON TO INITIATE A LOCKDOWN TONE THROUGHOUT THE BUILDING THROUGH NEW ALARM BEACONS AS SHOWN ON NEW WORK FLOOR PLAN AND SITE PLAN. FOR EXISTING BUILDING, INCLUDE FOR ALL WIRING IN 16mm CONDUIT AS REQUIRED.
 - APPROXIMATE LOCATION OF VIDEO INTERCOM SYSTEM DOOR STATION. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND GENERAL CONTRACTOR ON SITE.
 - APPROXIMATE LOCATION OF VIDEO INTERCOM MASTER STATION AND DOOR RELEASE PUSHBUTTON (EITHER INTEGRAL OR REMOTE FROM MASTER STATION). CONFIRM EXACT LOCATION ON SITE PRIOR TO ROUGH-IN.
 - APPROXIMATE LOCATION OF VIDEO INTERCOM SUB-MASTER STATION. CONFIRM EXACT LOCATION ON SITE PRIOR TO ROUGH-IN.
 - PROVIDE CONNECTION TO NEW ELECTRIC STRIKE. ALSO INCLUDE FOR APPROXIMATE ROUTING OF NEW FEEDER. REFER TO DETAIL ON DRAWING #2.1 FOR FURTHER INFORMATION.



- PROVIDE CONNECTION TO NEW POWER DOOR OPERATOR. INCLUDE FOR REQUIRED LINE AND LOAD CONNECTIONS TO ASSOCIATED WALL ACTUATORS. COORDINATE EXACT LOCATION OF ACTUATORS AND FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN. REFER TO DETAIL ON DRAWING #2.1 FOR FURTHER INFORMATION.
- PROVIDE FIRE ALARM ZONE CONNECTION TO NEW GUARDIAN 6800 EXHAUST HOOD SUPPRESSION SYSTEM. COORDINATE EXACT LOCATION OF ACTUATORS AND FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR ON SITE.
- CONNECTION TO NEW KITCHEN EXHAUST HOOD AND ASSOCIATED GUARDIAN 6800 EXHAUST HOOD SUPPRESSION SYSTEM. COORDINATE EXACT LOCATION OF ACTUATORS AND FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR ON SITE.
- CONNECTION TO COMBINATION FIRE/SMOKE DAMPER. FOR BRANCH CIRCUIT INDICATED, EXTEND 2#12 + GROUND IN 21mm CONDUIT FROM ASSOCIATED BREAKER TO DAMPER LOCATION AND CONNECT COMPLETE. COORDINATE EXACT LOCATION OF DAMPER AND FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR ON SITE.
- NEW DUCT MOUNTED SMOKE DETECTOR TO BE INSTALLED WITHIN SUPPLY AIR DUCT AND CONNECTED TO NEW COMBINATION FIRE/SMOKE DAMPER COMPLETE. REFER TO DETAIL ON DRAWING #3.1 FOR FURTHER REQUIREMENTS.
- PROVIDE NEW FIRE ALARM ZONE AND SUPERVISORY ZONE WIRING FOR THE FOLLOWING DEVICES. ALL WIRING SHALL BE EXTENDED FROM EXISTING FIRE ALARM CONTROL PANEL TO DEVICE LOCATION AND CONNECT COMPLETE. COORDINATE FINAL CONNECTIONS WITH SPRINKLER CONTRACTOR ON SITE.
 - A) FS-1 - CHILD CARE SPRINKLER FLOW (ALARM ZONE);
 - B) SV-1 - CHILD CARE BACKFLOW VALVE INLET (SUPERVISORY ZONE);
 - C) SV-2 - CHILD CARE BACKFLOW VALVE OUTLET (SUPERVISORY ZONE);
 - D) SV-3 - CHILD CARE SPRINKLER MAIN SHUT-OFF (SUPERVISORY ZONE);
 - E) SV-4 - CHILD CARE SPRINKLER LOW PRESSURE (SUPERVISORY ZONE).
- PROVIDE NEW SURFACE MOUNTED PANELBOARD 'RP-TA'. PANELBOARD TO BE INSTALLED WITHIN NEW UTILITY ROOM #107. NEW MAIN FEEDER TO BE EXTEND FROM NEW PANELBOARD TO EXISTING SWITCHBOARD LOCATED WITHIN EXISTING MAIN ELECTRICAL ROOM. REFER TO DRAWING #2.1 FOR APPROXIMATE ROUTING OF NEW FEEDER. REFER TO PANEL SCHEDULE ON DRAWING #3.1 FOR BREAKER REQUIREMENTS FOR NEW PANEL.

- PROVIDE NEW WALL MOUNTED LAN/IT EQUIPMENT RACK WITHIN NEW UTILITY ROOM #107. RACK SHALL BE MIDDLE ATLANTIC #CWR-12-20XX OR EQUIVALENT. INCLUDE FOR REQUIRED TERMINATION PANELS, ETC TO ACCOMMODATE QUANTITY OF DATA OUTLETS FOR CHILDCARE SPACE AS SHOWN ON FLOOR PLANS.
- PROVIDE NEW WALL MOUNTED SECURITY DISARM KEYPAD TO DISARM ALL SECURITY DEVICES FOR THE DAYCARE. NEW DAYCARE ADDITION SHALL BE ADDED TO THE EXISTING SECURITY SYSTEM AS A SEPARATE PARTITION.
- PROVIDE NEW WALL MOUNTED LOCKDOWN ALARM BEACON AND SIREN. BEACONS/SIREN TO BE WIRED SUCH THAT ACTIVATION OF ANY NEW PUSHBUTTON WILL ACTIVATE AN ALARM TONE AND STROBE BEACON THROUGHOUT THE SCHOOL. ALARM BEACON SHALL BE ST1 MODEL #S45000-B.
- APPROXIMATE LOCATION OF NEW MOTOR STARTERS FOR EXHAUST FANS 'EF-1' AND 'EF-2' ON ROOF. CONFIRM EXACT LOCATION ON SITE PRIOR TO ROUGH-IN. STARTERS TO BE SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED UNDER THIS DIVISION.

- ### GENERAL NEW WORK NOTES
- REFER TO LUMINAIRE SCHEDULE ON DRAWING #3.1 FOR LUMINAIRE TYPES AND ACCEPTABLE MANUFACTURERS.
 - PROVIDE CONNECTIONS TO NEW MECHANICAL EQUIPMENT AS INDICATED. CONFIRM FINAL EQUIPMENT LOCATIONS WITH MECHANICAL CONTRACTOR ON SITE. PRIOR TO ROUGH-IN.
 - ALL SHUT-DOWNS OF EXISTING DISTRIBUTION EQUIPMENT TO INSTALL NEW BREAKERS AND/OR STARTERS/DISCONNECT SWITCHES SHALL BE COORDINATED WITH THE OWNER PRIOR TO COMMENCEMENT OF ANY WORK. EXACT DATE AND TIME AND DURATION OF OUTAGE SHALL BE COMMUNICATED TO THE OWNER PRIOR TO COMMENCEMENT OF WORK.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR DIMENSIONAL PLACEMENT OF NEW LUMINAIRES. ELECTRICAL REFLECTED CEILING PLAN LIGHTING DRAWINGS ARE MEANT TO CONVEY QUANTITIES ONLY. BRANCH CIRCUIT FEEDERS SHALL BE MINIMUM 2#12 + GROUND IN 16mm CONDUIT, UNLESS NOTED OTHERWISE IN SHEET KEYNOTES BELOW. BRANCH FEEDERS SHALL BE OVERSIZED TO ACCOMMODATE VOLTAGE DROP AS NOTED IN DETAIL ON DRAWING #3.3.
 - UNLESS NOTED OTHERWISE, FOR NEW DATA OUTLETS NOTED ON THIS DRAWING, PROVIDE EMPTY SINGLE GANG BACKBOX AND EXTEND 21mm EMPTY CONDUIT, COMPLETE WITH PULL STRING, FROM BACKBOX TO TERMINATE WITHIN SATELLITE LAN ROOM. LOCATION SHOWN ON DRAWING #E.10. INCLUDE FOR ALL REQUIRED CONDUIT OFFSETS TO ACCOMMODATE CEILING HEIGHT CHANGES THROUGH LIBRARY AND CORRIDOR.
 - ALL NEW DATA OUTLETS AND CABLEING, ETC. SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK. CABLEING FROM OUTLETS SHALL TERMINATE AT NEW LAN EQUIPMENT RACK IN UTILITY ROOM. EXTEND 12 STRAND MULTIMODE FIBRE OPTIC CABLE IN 32mm CONDUIT FROM CHILDCARE LAN EQUIPMENT RACK TO MAIN SCHOOL LAN ROOM AND EQUIPMENT RACK AND TERMINATE COMPLETE.
 - PROVIDE NEW FIRE ALARM ZONE FOR PROPOSED DAYCARE ADDITION. NEW ALARM SIGNALING AND INITIATING CIRCUITS TO BE PROVIDED FROM EXISTING CONTROL PANEL. TO NEW ADDITION.
 - PROVIDE NEW SECURITY/ACCESS CONTROL PARTITION WITHIN SECURITY SYSTEM CONTROL PANEL FOR PROPOSED DAYCARE ADDITION. NEW KEYPAD WITHIN DAYCARE ADDITION SHALL DISARM DEVICES ONLY WITHIN THE DAYCARE SPACE. EXISTING DISARM KEYPAD WITHIN SCHOOL SHALL DISARM ENTIRE BUILDING. PROVIDE ALL PROGRAMMING/REPROGRAMMING AS REQUIRED.

Rev	Description	Date
1	Issued for Class C Costing	2022-07-27
2	Issued for Client Review	2022-11-10
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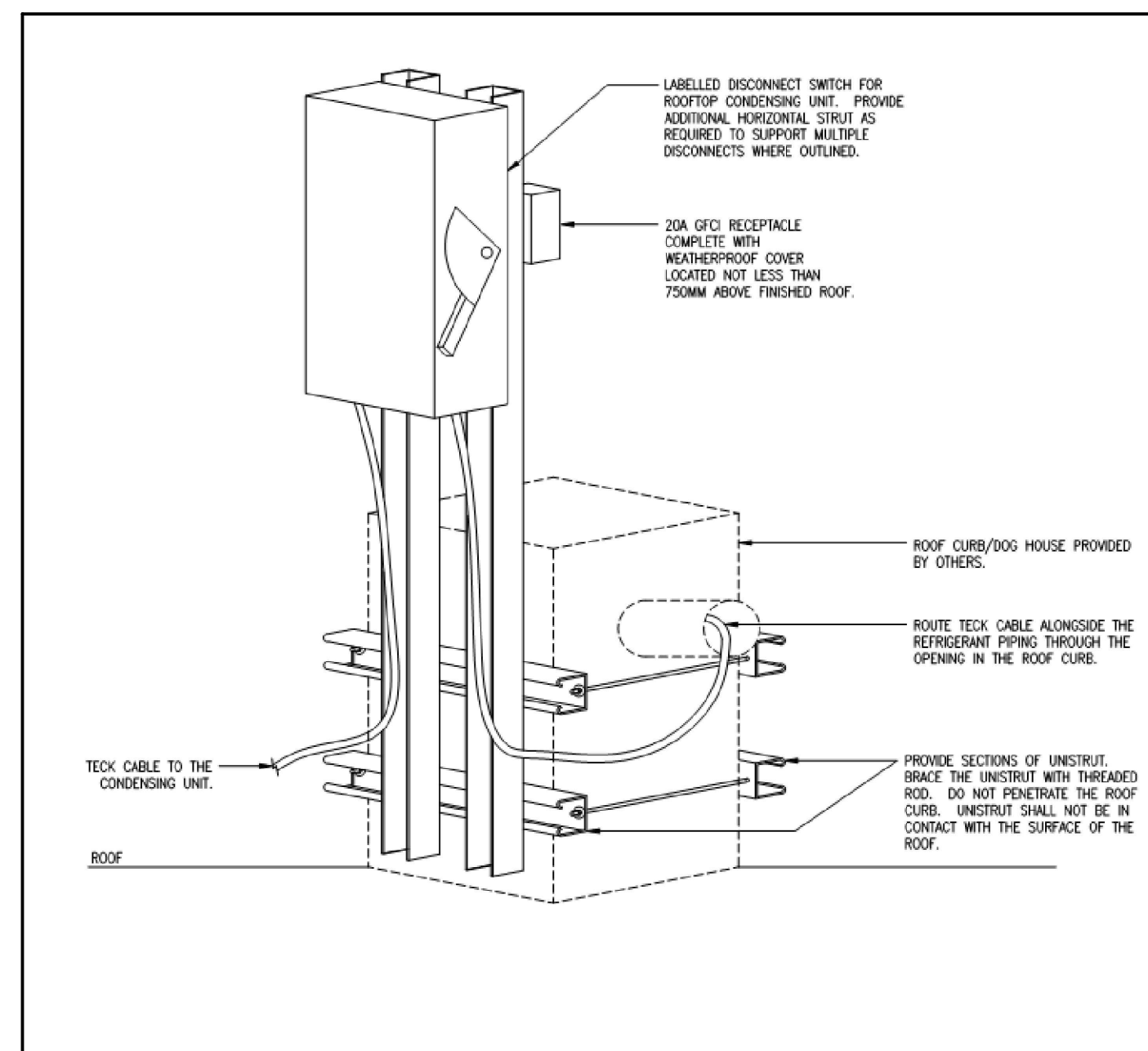
PROJECT CODE: ED-22-018
DATE: 2022-10-27

SCALE: As Noted
STATUS: Coordination

Electrical Ground Floor
New Work Plans

Project North

E2.1



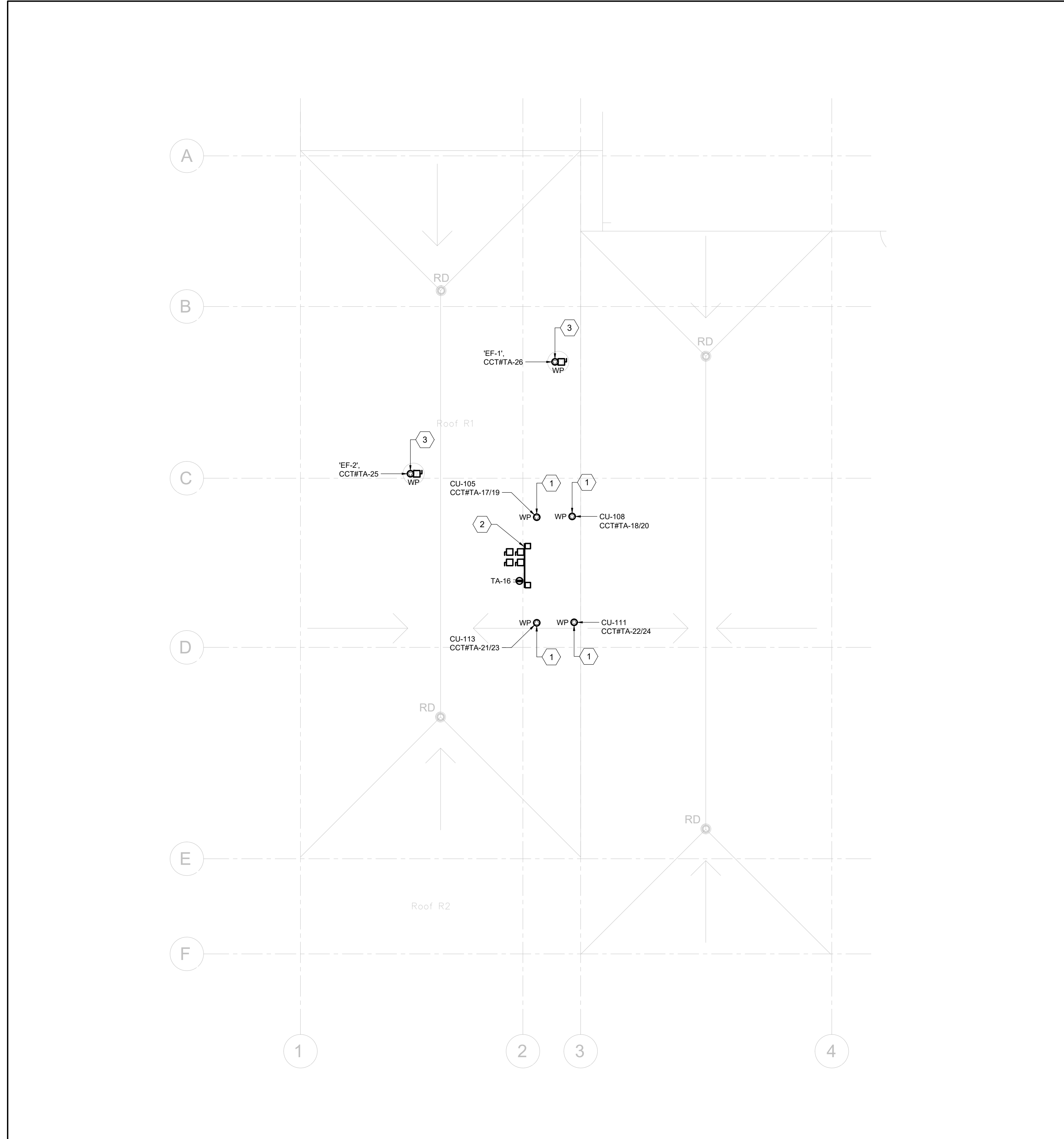
1 ROOF NEW WORK PLAN - POWER & SYSTEMS
SCALE: 1:100

PROJECT GENERAL NOTES

- LOCATION OF EQUIPMENT IS NOTED FOR DIAGRAMMATIC PURPOSES. CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW ARCHITECTURAL AND MECHANICAL PLANS AS WELL AS ON SITE CONDITIONS TO CONFIRM EXACT LOCATION OF EQUIPMENT.
- ALL NEW BRANCH FEEDERS TO NEW WIRING DEVICES SHALL BE 2#10 + GROUND IN 21mm CONDUIT UNLESS NOTED OTHERWISE.

NEW WORK KEY NOTES:

- PROVIDE CONNECTION TO NEW ROOF MOUNTED CONDENSING UNIT. EXTEND 2#10 + IN 21mm CONDUIT FROM UNIT TO BREAKER IN NEW PANEL RP-TA AND CONNECT COMPLETE. INCLUDE FOR REQUIRED LINE AND LOAD CONNECTIONS TO ASSOCIATED DISCONNECT SWITCH. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER-TIGHT AND MAINTAIN ANY EXISTING FIRE RATINGS. COORDINATE FINAL CONNECTIONS TO UNIT WITH MECHANICAL CONTRACTOR ON SITE.
- DISCONNECTS FOR ROOF MOUNTED CONDENSING UNITS AND ROOF MOUNTED SERVICE RECEPTACLE TO BE INSTALLED ON PLYWOOD BACKBOARD MOUNTED TO VERTICAL UNISTRUT SUPPORT MEMBERS AND ATTACHED TO DOGHOUSE. REFER TO DETAIL ON THIS DRAWING. PLYWOOD BACKBOARD TO BE PRESSURE TREATED AND PAINTED WITH WEATHER RESISTANT PAINT. ALL DISCONNECT SWITCHES SHALL BE WEATHERPROOF, NEMA 4X RATED. RECEPTACLE SHALL BE 20A WEATHERPROOF GFI TYPE RECEPTACLE. EXTEND 2#10 + GROUND IN 21mm CONDUIT FROM RECEPTACLE TO BREAKER IN NEW PANELBOARD 1F AND CONNECT COMPLETE. REFER TO PANEL SCHEDULE FOR BREAKER REQUIREMENTS. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER-TIGHT AND MAINTAIN ANY EXISTING FIRE RATINGS.
- PROVIDE CONNECTION TO NEW ROOF MOUNTED EXHAUST FAN. EXTEND 2#12 + IN 21mm CONDUIT FROM UNIT TO BREAKER IN NEW PANEL RP-TA AND CONNECT COMPLETE. INCLUDE FOR REQUIRED LINE AND LOAD CONNECTIONS TO ASSOCIATED MOTOR STARTER. MOTOR STARTER SHALL BE SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED UNDER THIS DIVISION. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER-TIGHT AND MAINTAIN ANY EXISTING FIRE RATINGS. COORDINATE FINAL CONNECTIONS TO UNIT WITH MECHANICAL CONTRACTOR ON SITE.



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QUASAR CONSULTING GROUP

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1226 Lockhart Rd
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PROJECT CODE: ED-22-018
DATE: 2022-10-27

SCALE: 1:100
STATUS: Coordination

SCHEDULE 26 06 50.23 - LIGHTING CONTROL DEVICE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURERS AND PRODUCT SERIES	CONTROL WIRING	VOLTAGE OUTPUT	MOUNTING	SPECIFICATION SECTION	SPACES SERVED	REMARKS
1B	UI-NV-1B	ONE BUTTON WALL STATION, ONE BUTTON ON-OFF TOGGLE.	ACUITY BRANDS CONTROLS/nLIGHT, nPOOM-15B SERIES LEGRAND/WATTSTOPPER LMSW-101 PHILIPS DYNALITE DPNA SERIES, DPNA814	DIGITAL	-	WALL	26 09 43		SUBMITTAL WITH STANDARD/PROPOSED ENGRAVING OPTION. ALLOW FOR CUSTOM LABELLING OPTION AT OWNER'S DISCRETION.
Z1, Z2	UI-DIM-NV-X B	DIMMING WALL STATION, MULTI-BUTTON WALL INTERFACE CONTROL CW ENGRAVED BUTTONS. EACH ZONE CONTROLLED (SEE PLANS), DIM UP, DIM DOWN, ALL OFF, ALL ON 'X' DENOTES NUMBER OF CONTROLLED ZONES	ACUITY BRANDS CONTROLS/nLIGHT nPOOM SERIES PHILIPS REVOLUTION SERIES DR2PA	DIGITAL	-	WALL	26 09 43		
DT	DT-W-2V	WALL MOUNT OCCUPANCY SENSOR, 24 V, DUAL TECHNOLOGY SENSOR, MIN 1200 SQ FT COVERAGE	PHILIPS OCCUSWITCH CLASSIC LRM2265 SERIES WATTSTOPPER DT-200 SERIES		24 V	WALL +/- 12 FEET AFF	26 09 23		
DT	DT-C-2V	CEILING MOUNTED OCCUPANCY SENSOR, 24 V, DUAL TECHNOLOGY SENSOR	LEGRAND/WATTSTOPPER DT-300 SERIES LUTRON LOS-GDT SERIES		24 V		26 09 23		

LIGHTING CONTROLS SCHEDULE NOTES:
 1. LIGHTING CONTROLS OF ONE MANUFACTURER THROUGH PROJECT TO ENSURE PRODUCT COMPATIBILITY.
 2. ALTERNATE MANUFACTURERS: ACUITY BRANDS LIGHTING (SENSORSWITCH, nLIGHT), COOPER LIGHTING SOLUTIONS, DOUGLAS LIGHTING CONTROLS, LUTRON, SIGNIFY (FORMERLY PHILIPS LIGHTING), WATTSTOPPER-LEGRAND.
 3. DUAL TECHNOLOGY SENSORS: PASSIVE INFRARED/ULTRASONIC, OR PASSIVE INFRARED/MICROPHONIC, DEPENDING ON MANUFACTURER. MICROPHONIC SENSORS ACCEPTABLE IN LIEU OF ULTRASONIC.
 4. POSITION CEILING MOUNTED OCCUPANCY SENSORS A MINIMUM 1200 mm (4'-0") FROM NEAREST AIR DIFFUSER, HVAC OUTLETS, HEATING BLOWERS, ETC.
 5. CONFIRM INSTALLATION REQUIREMENTS, WIRING DIAGRAMS, ETC. WITH MANUFACTURER'S DETAILS.
 6. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.
 7. CONFIRM FINISH COLOUR WITH CONSULTANT DURING SUBMITTAL REVIEW.

SCHEDULE 26 06 50.19 - EMERGENCY LIGHTING AND EXIT SIGN SCHEDULE

SYMBOL	TYPE	DESCRIPTION	MANUFACTURER AND PRODUCT SERIES	VOLTAGE	LAMPS	MOUNTING	SPEC SECTION	REMARKS
EM1	EM1	MICRO SIZE SINGLE REMOTE HEAD COMPLETE WITH POLYCARBONATE IMPACT RESISTANT LENS.	-LUMACELL MQM1NC-LD14-CSA SERIES -EMERGLITE EF40 SERIES -STANPRO SMC SERIES -BEGHELLI BOLLA REMOTE SERIES	24V	1x6W MR16 LED	WALL SURFACE	26 52 13.13	
EM2	EM2	MICRO SIZE DOUBLE REMOTE HEAD COMPLETE WITH POLYCARBONATE IMPACT RESISTANT LENS.	-LUMACELL MQM-2-24V20W-CSA SERIES -EMERGLITE EF40 SERIES -STANPRO SMC SERIES -BEGHELLI BOLLA REMOTE SERIES	24V	2x6W MR16 LED	WALL SURFACE	26 52 13.13	
BU-1	BU-1	24 V EMERGENCY LIGHTING BATTERY UNIT CW AUTO TEST, WITH DOUBLE HEADS, FACTORY WHITE FINISH, UNIVERSAL 120/347 VAC INPUT. LAMPS: MR16 LED LAMP, 12 V, 6 W, 540 LUMEN, 25 DEGREE BEAM ANGLE.	-LUMACELL RG24S-xxx-2-LD13-AT SERIES -EMERGLITE ESL SERIES -STANPRO SLC SERIES -BEGHELLI NOVA SERIES	120V-347V IN 24V OUT				
X1	X1	EXTRUDED ALUMINUM PICTOGRAM EXIT SIGN, UNIVERSAL MOUNTING, FACTORY WHITE FINISH.	-LUMACELL LA SERIES -EMERGLITE EA SERIES -STANPRO RMXL SERIES -BEGHELLI QUADRA RM SERIES	SEE NOTE 2	3W LED	CEILING OR WALL SURFACE	26 52 13.16	REFER TO FLOOR PLANS FOR MOUNTING ARRANGEMENT
X2	X2	SAME AS X1, DOUBLE FACE	-LUMACELL LA SERIES -EMERGLITE EA SERIES -STANPRO RMXL SERIES -BEGHELLI QUADRA RM SERIES	SEE NOTE 2	3W LED	CEILING OR WALL SURFACE	26 52 13.16	REFER TO FLOOR PLANS FOR MOUNTING ARRANGEMENT

EMERGENCY LIGHTING FIXTURE & EXIT SIGN SCHEDULE NOTES:
 1. WHERE AN INCOMPLETE MODEL/CAT NO. IS LISTED, MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE WITH THE CONSULTANT A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE.
 2. EXIT SIGNS SHALL BE CAPABLE OF UNIVERSAL 120/347V AC AND 6 TO 48V DC INPUT. BATTERY UNITS SHALL BE CAPABLE OF UNIVERSAL 120/347V AC INPUT.
 3. FOR EXIT SIGNS, REFER TO ARROWS AND NUMBER OF SHADED FACES AS DIRECTED ON LIGHTING LAYOUT. WHERE ARROWS INDICATE TWO DIRECTIONS, PROVIDE TWO PICTOGRAM STYLE EXIT SIGNS.
 4. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.
 5. ACCEPTABLE MANUFACTURERS AS NOTED IN SECTION 26 52 13.13 AND SECTION 26 52 13.16. [OR]
 6. ACCEPTABLE MANUFACTURERS: AIMLITE, BEGHELLI, EMERGLITE, LUMACELL, STANPRO.
 7. REMOTE HEADS CERTIFIED TO CSA C22.2 No. 141.
 8. CIRC3 - "CENTRE BEAM CANOLE POWER".
 9. CONFIRM RECOMMENDED SPACING WITH EMERGENCY LIGHTING MANUFACTURER PRIOR TO START OF ROUGH-IN.

SCHEDULE 26 06 50.16 - LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURER AND CAT NO. SEE NOTE 1	VOLTAGE/ INPUT WATTS	LUMEN PACKAGE (3500 K CCT UNLESS NOTED OTHERWISE) MINIMUM 80 CRI	MOUNTING	REFERENCE	REMARKS
L1	L1	RECESSED 2' x 4' RECESSED LUMINAIRE COMPLETE WITH WHITE FLUSH STEEL DOOR, AND K12 ACRYLIC LENS.	LITHONIA LIGHTING ZGTL SERIES CAT.#ZGTL-4-40L-A12125-GZ10-LP840	120V 30W	4000 LUMEN 4000K	RECESSED T-BAR CEILING		
L2	L2	RECESSED 2' x 4' RECESSED LUMINAIRE COMPLETE WITH WHITE FLUSH STEEL DOOR, AND K12 ACRYLIC LENS.	LITHONIA LIGHTING ZGTL SERIES CAT.#ZGTL-4-30L-A12125-GZ10-LP840	120V 23W	3000 LUMEN 4000K	RECESSED T-BAR CEILING		
L3	L3	RECESSED 2' x 4' RECESSED LUMINAIRE COMPLETE WITH WHITE FLUSH STEEL DOOR, AND K12 ACRYLIC LENS.	PRESCOLITE LIGHTING (OMNILUMEN) LTR-4RD SERIES CAT.#LTR-4RD-4-10L-DM1/LTR-4RD-T-SL-40K-8-MD-SS-WT	120V 32W	4000 LUMEN 4000K	RECESSED DRYWALL CEILING		
L4	L4	RECESSED 1' x 4' RECESSED LUMINAIRE COMPLETE WITH WHITE FLUSH STEEL DOOR, FORMED ACRYLIC LENS.	LITHONIA LIGHTING ZALL SERIES CAT.#ZALL4-40L-GZ10-LP840	120V 28W	3300 LUMEN 4000K	RECESSED T-BAR CEILING		
L5	L5	SPECIFICATION GRADE 100 mm (4 INCH) NOMINAL ROUND APERTURE RECESSED LED DOWNLIGHT	LITHONIA LIGHTING LDNS SERIES CAT.#LDNS-40/15-L06-AR-LSS-TRW-MVOLT-GZ10	120V 17.5W	1500 LUMEN 4000K	RECESSED DRYWALL CEILING		
L6	L6	SURFACE OR CHAIN SUSPENSION MOUNTED 4' LONG LED LINEAR LUMINAIRE COMPLETE WITH ROLLED STEEL HOUSING AND DIFFUSE ACRYLIC LENS	LITHONIA LIGHTING CSS SERIES CAT.#CSS-L48-AL03-MVOLT-40K-80CRI	120V 35W	4000 LUMEN 4000K	SURFACE OR SUSPENSION MOUNTED		PRIOR TO INSTALLATION LUMINAIRE TO BE SET AT 4000LM LUMEN OUTPUT
OW1	OW1	11.5" WIDE x 7" DEEP x 9" HIGH WALL MOUNTED EXTERIOR LED WALL PACK COMPLETE WITH ONE PIECE DIE CAST ALUMINUM HOUSING, DIE-CAST GASKETED DOOR FRAME, POWDER COAT PAINT FINISH, FORMED ACRYLIC LENS AND INTEGRAL PHOTOCELL.	LITHONIA LIGHTING WDG2Z LED SERIES CAT.#WDG2Z LED-P2-30K-70CRI-T2M-MVOLT-SRM-PE-XX	120V 19W	2300 LUMENS 3000K	WALL MOUNTED		"XX" WITHIN PRODUCT NUMBER DENOTES STANDARD COLOUR FINISH TO BE CONFIRMED WITH ARCHITECT PRIOR TO ORDERING.

LIGHTING FIXTURE SCHEDULE NOTES:
 1. UNLESS NOTED OTHERWISE, ACCEPTED ALTERNATE MANUFACTURERS AND SUPPLIERS: ACUITY BRANDS LIGHTING, CREE CANADA, HUBBELL LIGHTING, PEERLESS ELECTRIC, SIGNIFY (FORMERLY PHILIPS LIGHTING), VISCO/VISIONEERING.
 2. WHERE AN INCOMPLETE MODEL/CAT NO. IS LISTED, MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE WITH THE CONSULTANT A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE.
 3. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.

26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE

PANEL ID: RP-T	VOLTS: 120/208V	LOCATION: LAUNDRY/UTILITY #A1-107
MAIN BUS: 225A	PHASE: 3	FED FROM: MAIN SWITCHBOARD
MAIN BREAKER: NONE	WIRE: 4	FEEDER ENTRY AT: TOP
TYPE:	MOUNTING: RECESSED	FEEDER: REFER TO SINGLE LINE DIAGRAM
INTERRUPTING CAPACITY: 22KA	ENCLOSURE RATING: 1	REMARKS:

CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.	
		ØA	ØB	ØC				ØA	ØB	ØC			
1	101, 102 - LTG	414	-	-	15	A	15"	150	-	-	BATT. UNIT 'BU-3'	2	
3	103-106, 113-116 LIGHTING	-	735	-	15	B	15"	-	100	-	EXIT SIGNS	4	
5	107-112 - LTG	-	-	-	947	15	C	20	-	-	101 - RECEPT.	6	
7	101, 102 - PDO	900	-	-	15	A	20	1500	-	-	102 - RECEPT.	8	
9	103, 105 - RECEPT	-	1200	-	15	B	15	-	1200	-	104, 105 - RECEPT.	10	
11	102 - PDO	-	-	-	300	15	C	15	-	-	105 - MICROWAVE	12	
13	105 - FRIDGE	1200	-	-	15	A	15	1200	-	-	106, 113, 114, 116 RECEPT.	14	
15	106 - MICROWAVE	-	1200	-	15	B	40	-	2500	-	106 - STOVE	16	
17	106 - MICROWAVE	-	-	1200	15	C	-	-	-	2500	-	106 - EXH. HOOD	20
19	106 - SPLIT RECEPT.	1200	-	-	15"	A	15	500	-	-	107 - I.T. RACK	22	
21	106 - SPLIT RECEPT.	-	1200	-	15"	B	20	-	1500	-	106 - FRIDGE	26	
23	106 - SPLIT RECEPT.	-	-	1200	15"	C	15	-	-	0	SPARE BREAKER	24	
25	106 - SPLIT RECEPT.	1200	-	-	15"	A	15	1200	-	-	106 - FRIDGE	26	
27	106 - SPLIT RECEPT.	-	1200	-	15"	B	15	-	1200	-	106 - SPLIT RECEPT.	28	
29	106 - SPLIT RECEPT.	-	-	1200	15"	C	15	-	-	1200	-	111, 113 - RECEPT.	32
31	110, 111, 112 RECEPT.	1200	-	-	15	B	40	-	2800	-	106 - DISHWASHER	34	
33	113 - FRIDGE	-	-	1200	15	C	-	-	-	2800	-	108, 109 - RECEPT.	38
37	107 - RECEPT.	1200	-	-	30	B	15	-	1200	-	107 - WASHER	40	
39	107 - DRYER	-	2250	-	30	C	15	-	-	1200	-	SPARE BREAKER	42
41		-	-	-	2250	C	15	-	-	-	-		

TOTAL ØA: 10342W, TOTAL ØB: 13680W, TOTAL ØC: 8702W

NOTES:
 * - PROVIDE LOCKABLE BREAKER
 ** - PROVIDE GFI TYPE BREAKER
 *** - COORDINATE EXACT BREAKER SIZE WITH EQUIPMENT SHOP DRAWINGS
 R - RECEPTACLE
 L - LIGHTING
 CIRCUIT NUMBERS ARE GIVEN FOR GROUPING ONLY. SITE VERIFY AVAILABLE CIRCUIT BREAKER SPACES IN PANELS DURING TENDER WALKTHROUGH.

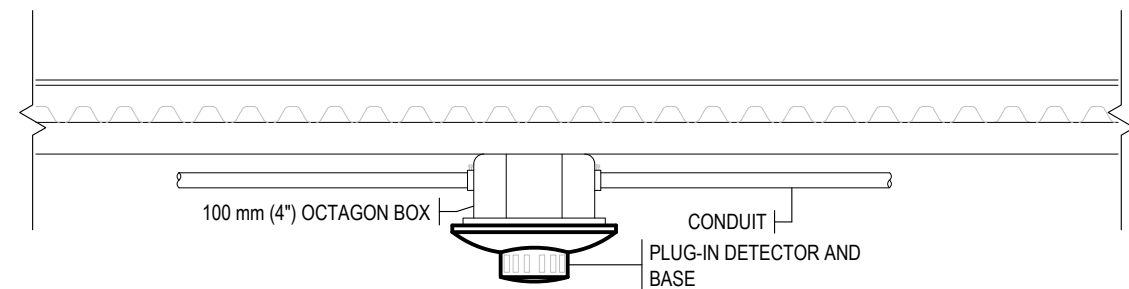
26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE

PANEL ID: RP-TA	VOLTS: 120/208V	LOCATION: LAUNDRY/UTILITY #A1-107
MAIN BUS: 100A	PHASE: 3	FED FROM: MAIN SWITCHBOARD
MAIN BREAKER: NONE	WIRE: 4	FEEDER ENTRY AT: TOP
TYPE:	MOUNTING: RECESSED	FEEDER: REFER TO SINGLE LINE DIAGRAM
INTERRUPTING CAPACITY: 22KA	ENCLOSURE RATING: 1	REMARKS:

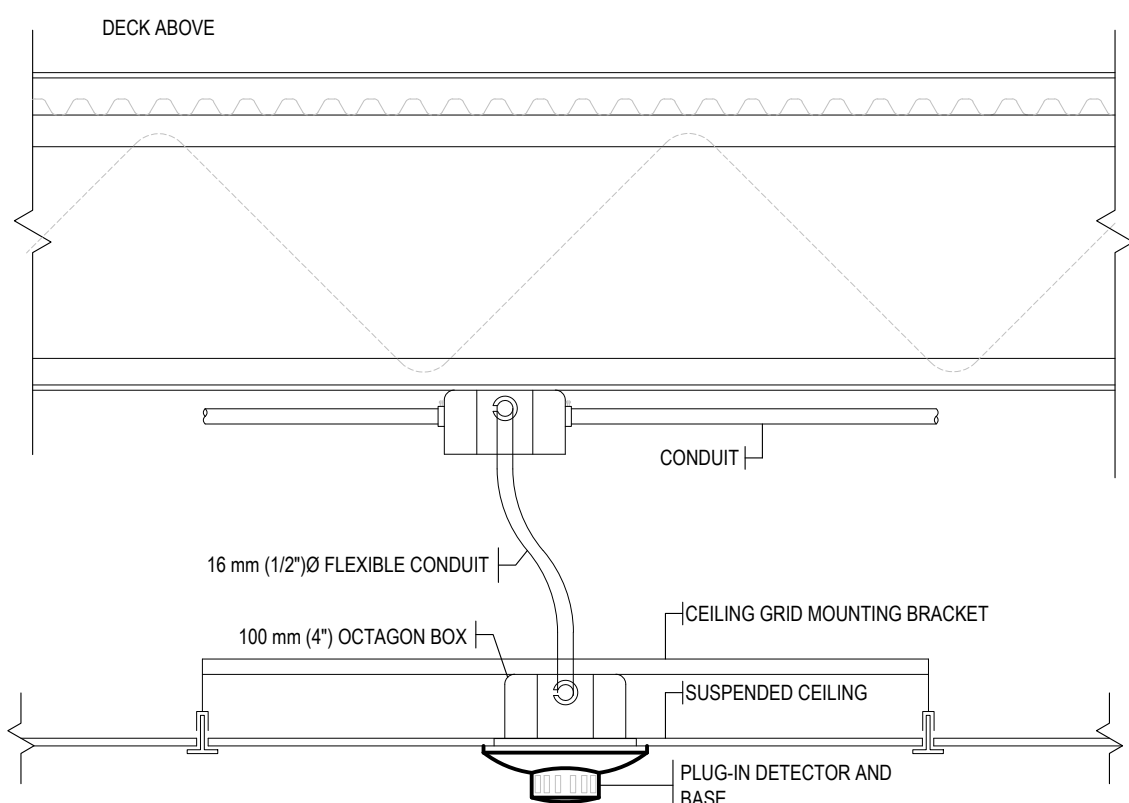
CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.
		ØA	ØB	ØC				ØA	ØB	ØC		
1	UNIT VENTILATOR 'UV-105'	1081	-	-	15	A	15"	1081	-	-	UNIT VENTILATOR 'UV-105'	2
3		-	-	1081	15	B	15"	-	-	1081	-	4
5		-	-	-	1081	C	-	-	-	1081	-	6
7	UNIT VENTILATOR 'UV-113'	1081	-	-	15	A	15"	1081	-	-	UNIT VENTILATOR 'UV-111'	8
9		-	-	1081	15	B	15"	-	-	1081	-	10
11		-	-	-	1081	C	-	-	-	1081	-	12
13	'CUH-1', 'CUH-2'	200	-	-	15	A	15"	500	-	-	DHW TANK	14
15	'CUH-3'	-	100	-	15	B	20"	-	1500	-	ROOF RECEPT.	16
17	ROOF TOP CONDENSING UNIT 'CU-105'	-	-	1357	15	C	15"	-	1357	-	ROOF TOP CONDENSING UNIT 'CU-106'	18
19		1357	-	-	15	A	15"	1357	-	-	ROOF TOP CONDENSING UNIT 'CU-111'	24
21	ROOF TOP CONDENSING UNIT 'CU-113'	-	1357	-	15	B	15"	-	1357	-	EXH. FAN 'EF-1'	26
23		-	-	1357	15	C	15"	-	1357	-	SPARE BREAKER	28
25	EXH. FAN 'EF-2'	230	-	-	15	A	15"	130	-	-	SPARE BREAKER	30
27	EXT. LIGHTING	-	171	-	15	B	15"	-	0	-	SPARE BREAKER	32
29	SPARE BREAKER	-	-	0	15	C	15"	-	0	-	SPARE BREAKER	34
31	SPARE BREAKER	0	-	-	20	A	15"	0	-	-	SPARE BREAKER	36
33	SPARE BREAKER	0	-	-	20	B	20"	0	-	-	SPARE BREAKER	38
35		-	-	0	20	C	-	-	-	0	-	40
37		0	-	-	20	A	0"	-	-	-	-	42
39		-	0	-	20	B	-	0	-	-	-	
41		-	-	0	20	C	-	-	0	-	-	

TOTAL ØA: 10342W, TOTAL ØB: 13680W, TOTAL ØC: 8702W

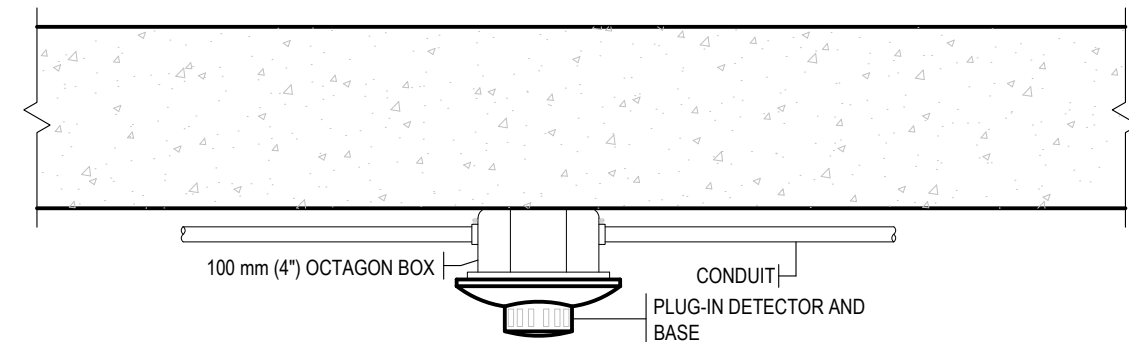
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 ** - PROVIDE GFI TYPE BREAKER
 *** - COORDINATE EXACT BREAKER SIZE WITH EQUIPMENT SHOP DRAWINGS
 R - RECEPTACLE
 L - LIGHTING
 CIRCUIT NUMBERS ARE GIVEN FOR GROUPING ONLY. SITE VERIFY AVAILABLE CIRCUIT BREAKER SPACES IN PANELS DURING TENDER WALKTHROUGH.



CEILING MOUNTED (SURFACE DECK)

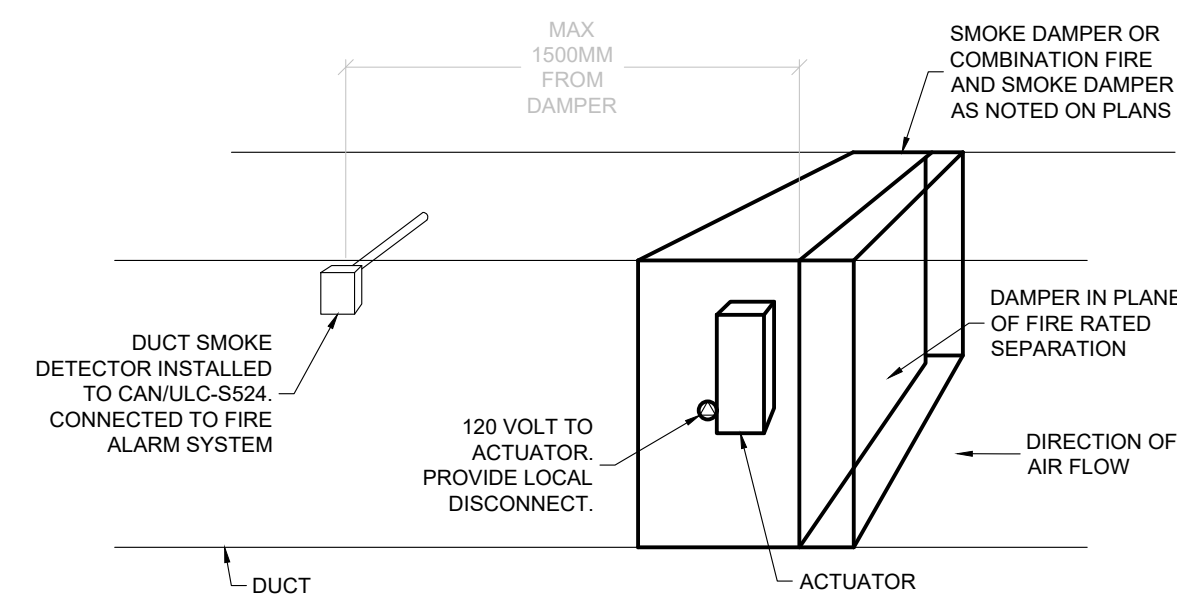


SUSPENDED CEILING MOUNTED



CEILING MOUNTED (SURFACE SLAB)

2 TYPICAL SPOT TYPE SMOKE DETECTOR INSTALLATION DETAIL SCALE: NOT TO SCALE



NOTES:
 1. SEQUENCE OF OPERATION: EXCEPT AS REQUIRED BY A SMOKE CONTROL SYSTEM, SMOKE DAMPERS AND COMBINATION SMOKE AND FIRE DAMPERS SHALL BE CONFIGURED SO AS TO CLOSE AUTOMATICALLY UPON A SIGNAL FROM AN ADJACENT SMOKE DETECTOR LOCATED AS DESCRIBED IN CANILUC-5524, "INSTALLATION OF FIRE ALARM SYSTEMS", WITHIN 1500 mm HORIZONTALLY OF THE DUCT OR AIR-TRANSFER OPENING IN THE FIRE SEPARATION IN THE DUCT DOWNSTREAM OF THE SMOKE DAMPER OR COMBINATION SMOKE AND FIRE DAMPER. (2012 OBC 3.1.8.9A (3)(b)).
 2. PROVIDE OUTPUT RELAY ON FIRE ALARM SYSTEM TO CLOSE DAMPER UPON DETECTION OF SMOKE BY DUCT SMOKE DETECTOR.

1 SMOKE/FIRE DAMPER CONTROLLED BY DUCT DETECTOR SCALE: NOT TO SCALE

Rev	Description	Date
1	Issued for Class C Costing	2022-07-27
2	Issued for Client Review	2022-11-10
3	Issued for 80% CD Review	2023-02-15
4	Issued for Site Plan Application	2023-03-15
5	Issued for Site Plan Application	2023-11-22
6	Issued for 90% CD Review	2024-10-01
7	Issued for Building Permit	2024-12-04
8	Issued for Tender	2025-01-14

QUASAR CONSULTING GROUP
 250 ROWNTREE DAIRY RD, WOODBRIDGE, ON
 TEL: 905-507-0800
 WEB: WWW.QUASARGROUP.COM

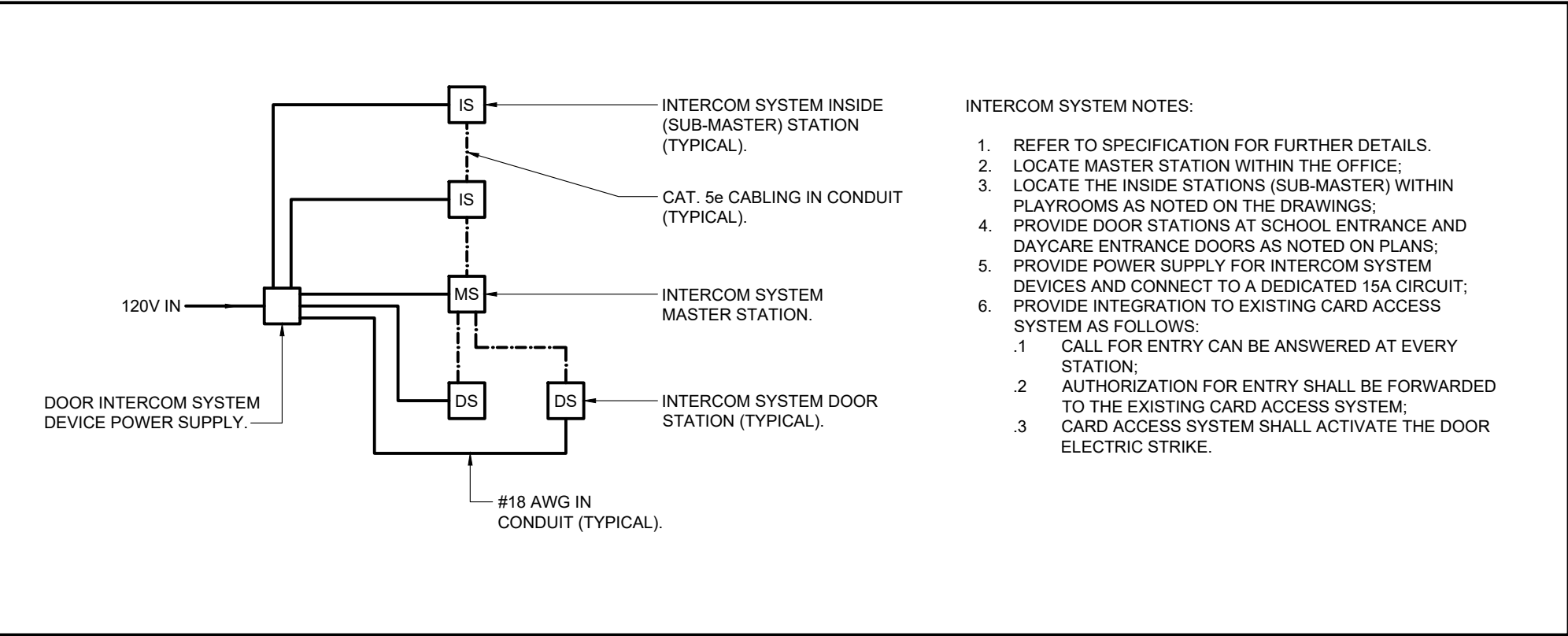
CSV Renaissance Addition

1226 Lockhart Rd
 Burlington, ON L7S 1H1

PROJECT CODE: ED-22-018	SCALE: Not to Scale
DATE: 2022-10-27	STATUS: Coordination

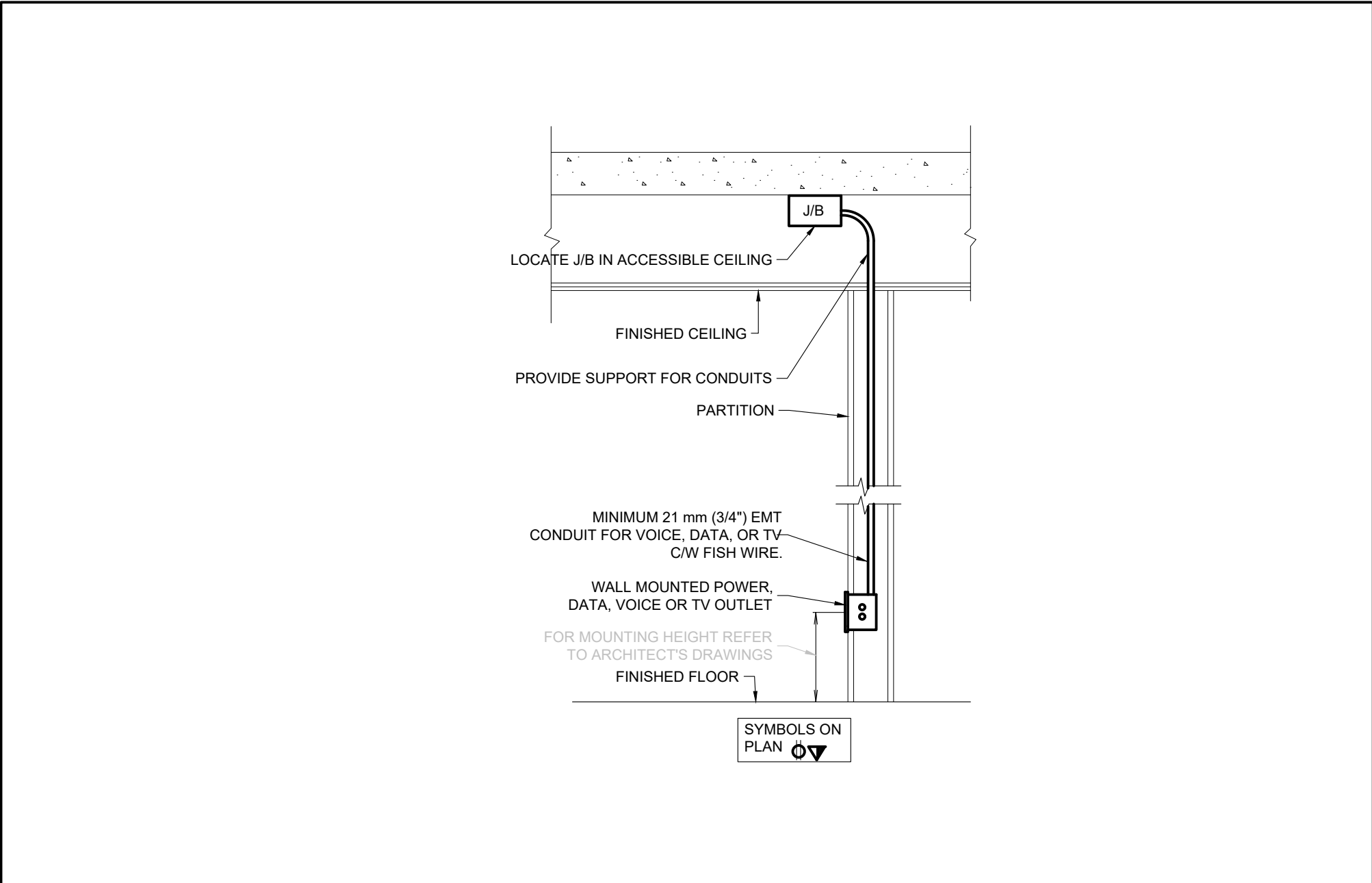
Electrical Schedules

Project North
E3.1
 drawing number

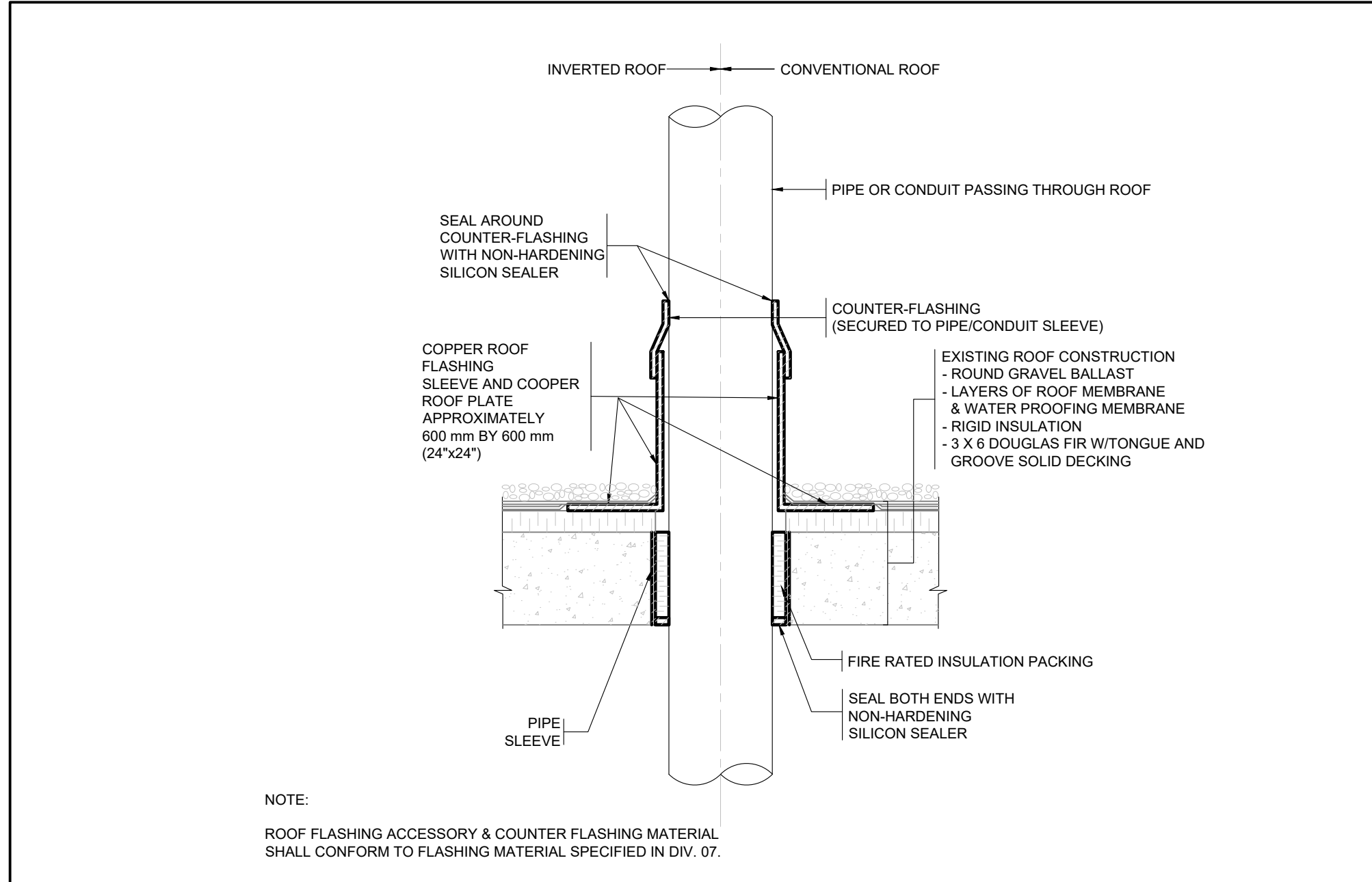


- INTERCOM SYSTEM NOTES:**
- REFER TO SPECIFICATION FOR FURTHER DETAILS.
 - LOCATE MASTER STATION WITHIN THE OFFICE.
 - LOCATE THE INSIDE STATIONS (SUB-MASTERS) WITHIN PLAYROOMS AS NOTED ON THE DRAWINGS.
 - PROVIDE DOOR STATIONS AT SCHOOL ENTRANCE AND DAYCARE ENTRANCE DOORS AS NOTED ON PLANS.
 - PROVIDE POWER SUPPLY FOR INTERCOM SYSTEM DEVICES AND CONNECT TO A DEDICATED 15A CIRCUIT.
 - PROVIDE INTEGRATION TO EXISTING CARD ACCESS SYSTEM AS FOLLOWS:
 - CALL FOR ENTRY CAN BE ANSWERED AT EVERY STATION.
 - AUTHORIZATION FOR ENTRY SHALL BE FORWARDED TO THE EXISTING CARD ACCESS SYSTEM.
 - CARD ACCESS SYSTEM SHALL ACTIVATE THE DOOR ELECTRIC STRIKE.

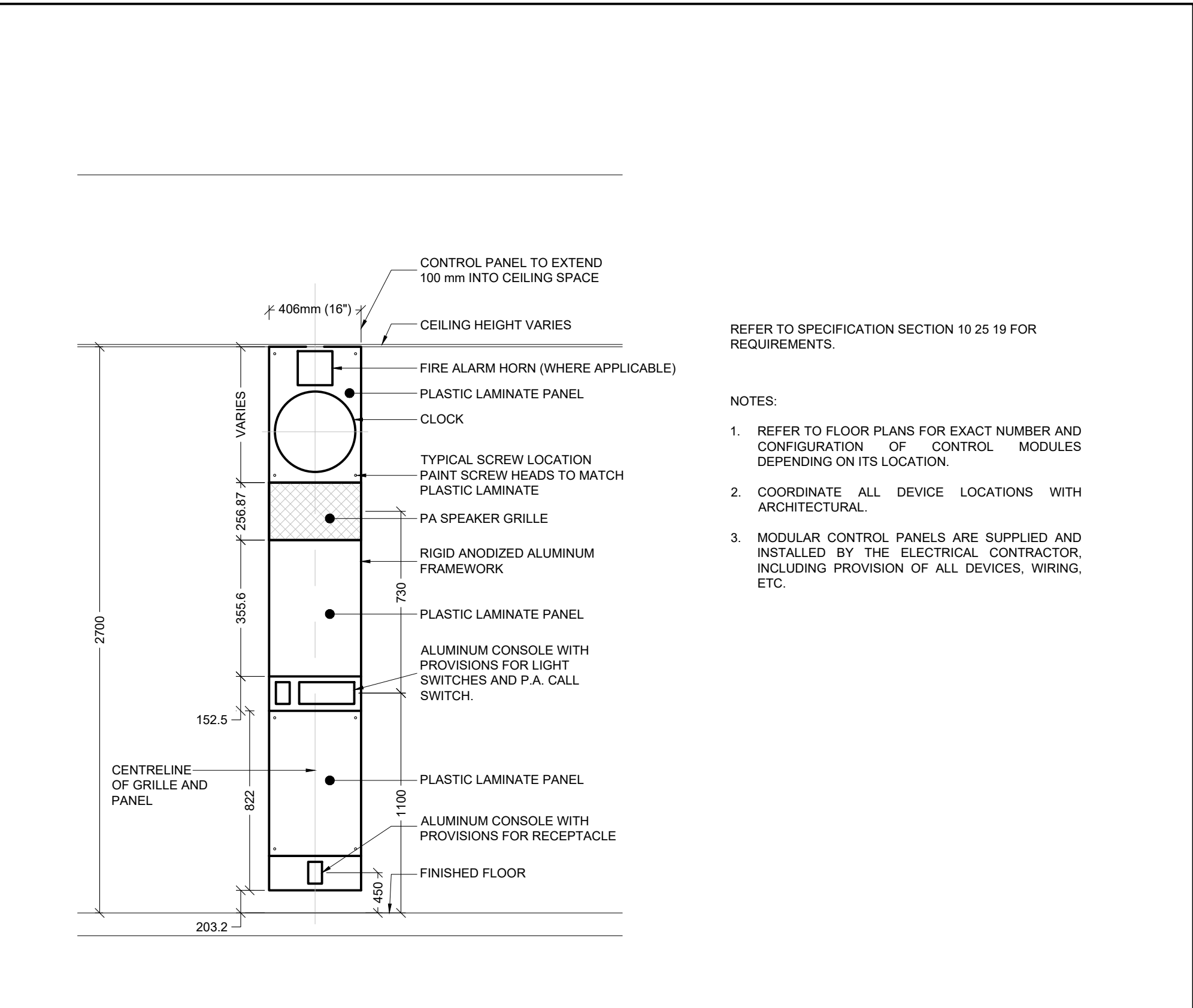
8 VIDEO INTERCOM SYSTEM RISER DIAGRAM
SCALE: NOT TO SCALE



6 DETAIL OF WALL MOUNTED OUTLET BOX
SCALE: NOT TO SCALE

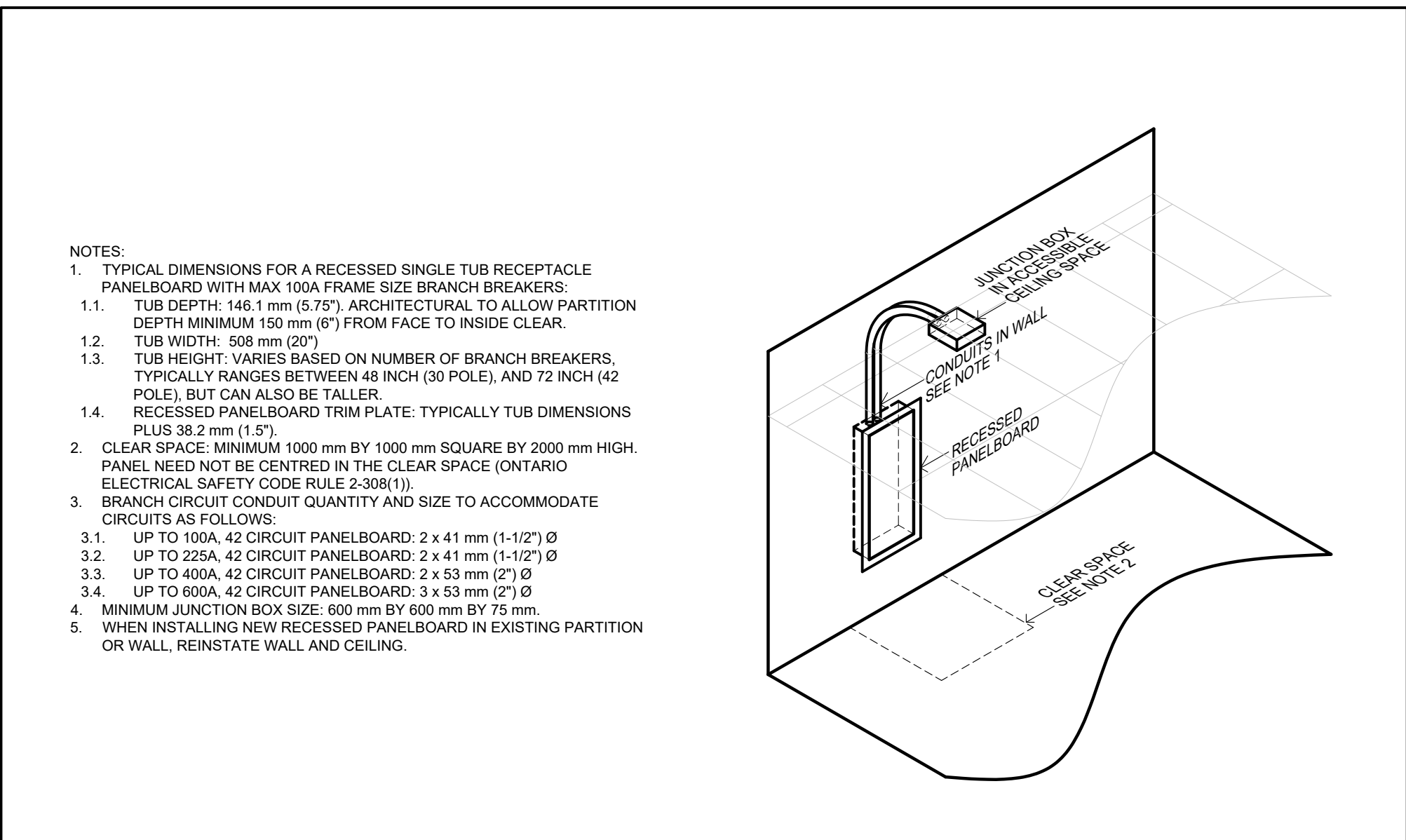


3 DETAIL OF CONDUIT PENETRATION THROUGH ROOF
SCALE: NOT TO SCALE



- REFER TO SPECIFICATION SECTION 10 25 19 FOR REQUIREMENTS.
- NOTES:**
- REFER TO FLOOR PLANS FOR EXACT NUMBER AND CONFIGURATION OF CONTROL MODULES DEPENDING ON ITS LOCATION.
 - COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECTURAL.
 - MODULAR CONTROL PANELS ARE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR, INCLUDING PROVISION OF ALL DEVICES, WIRING, ETC.

7 MODULAR CLASSROOM CONTROL PANEL DETAIL
SCALE: NOT TO SCALE

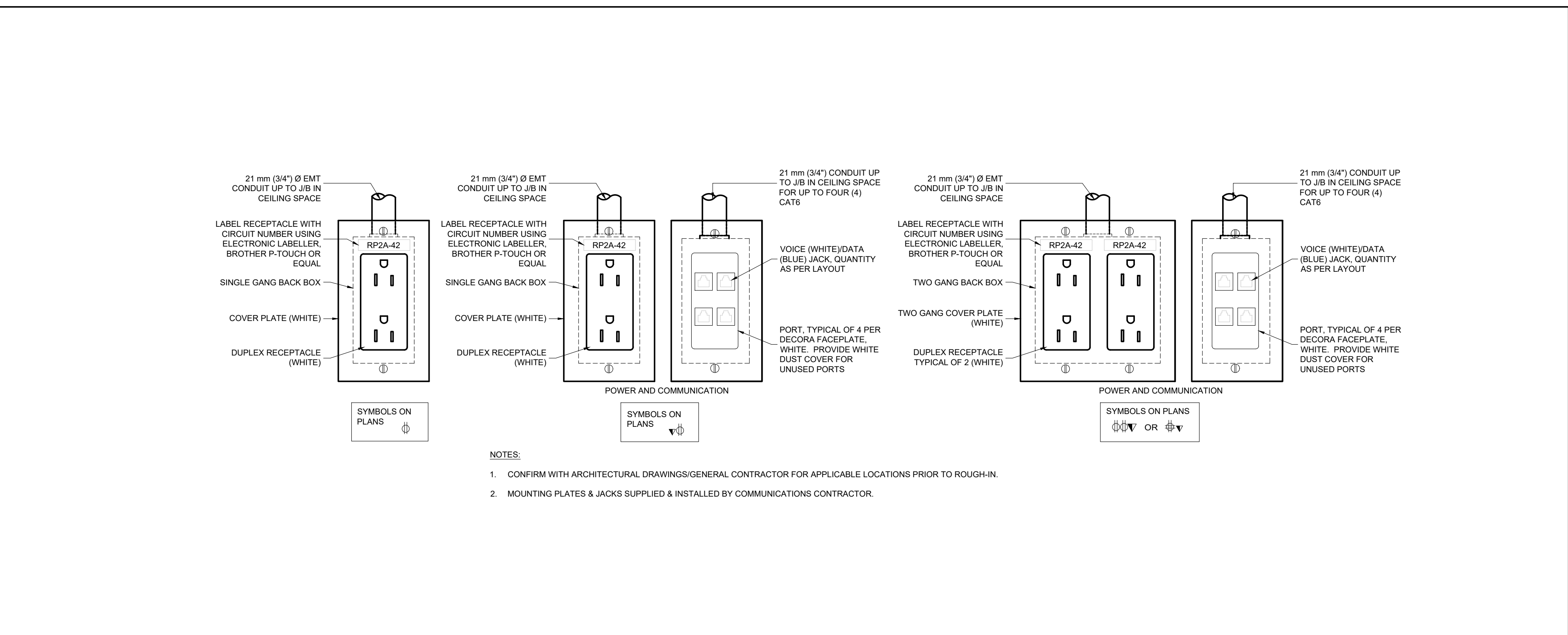


5 INSTALLATION DETAIL OF TYPICAL PANELBOARD
SCALE: NOT TO SCALE

EMERGENCY LIGHTING WIRING MAX VOLTAGE DROP

WIRE SIZE	LOAD (WATTS)	LENGTH OF WIRE RUN (FEET)															
		13	18	25	30	35	50	60	75	100	150	200	250	300	400		
6 VOLT	12	41	30	21	18	15	11	9	8	6	4	-	-	-	-		
	10	65	47	32	28	24	17	14	11	9	6	-	-	-	-		
	8	110	75	54	45	39	27	22	18	14	9	7	-	-	-		
12 VOLT	12	165	110	85	71	61	42	35	29	21	14	10	8	-	-		
	10	260	190	136	112	97	68	52	45	34	23	17	14	11	-		
	8	415	300	215	180	154	108	90	72	54	36	27	21	18	-		
24 VOLT	12	660	440	340	284	244	168	140	116	84	56	40	32	26	21		
	10	1040	760	544	448	388	272	208	180	136	92	68	52	44	34		
	8	1668	1200	860	720	616	432	360	288	216	144	108	84	72	54		

2 EMERGENCY LIGHTING WIRING MAX VOLTAGE DROP
SCALE: NOT TO SCALE



- NOTES:**
- CONFIRM WITH ARCHITECTURAL DRAWINGS/GENERAL CONTRACTOR FOR APPLICABLE LOCATIONS PRIOR TO ROUGH-IN.
 - MOUNTING PLATES & JACKS SUPPLIED & INSTALLED BY COMMUNICATIONS CONTRACTOR.

4 DETAIL OF UNGANGED POWER AND COMMUNICATION DEVICES
SCALE: NOT TO SCALE

MAXIMUM BRANCH WIRING DISTANCE FOR 120 V SYSTEM AT 3% VOLTAGE DROP

WIRE SIZE	BREAKER SIZE (AMPERES)	15	20	30	40	50	60	70	80	100
NO.12	MAX. LOAD AT 80% (AMPERES)	24.4	18.3	-----	-----	-----	-----	-----	-----	-----
	NO.10	38.1	29.0	19.1	-----	-----	-----	-----	-----	-----
	NO.8	59.4	44.2	30.5	22.9	-----	-----	-----	-----	-----
	NO.6	91.4	70.1	47.2	35.1	28.2	23.6	-----	-----	-----
	NO.4	-----	109.7	73.2	54.9	42.7	38.1	32.0	27.4	-----
	NO.2	-----	-----	114.3	85.3	68.6	57.9	50.3	41.1	35.0
	NO.1	-----	-----	-----	103.6	85.3	73.2	61.0	54.9	43.4
	NO.1/0	-----	-----	-----	128.0	102.9	85.3	73.2	64.0	48.8
	NO.2/0	-----	-----	-----	-----	121.9	100.6	86.9	74.7	60.9
	NO.3/0	-----	-----	-----	-----	-----	118.1	102.1	88.4	70.1
	NO.4/0	-----	-----	-----	-----	-----	-----	120.4	102.9	83.8
250 MCM	-----	-----	-----	-----	-----	-----	-----	-----	114.3	91.4
300 MCM	-----	-----	-----	-----	-----	-----	-----	-----	-----	103.6

NOTE: DISTANCES INDICATED IN METRES FROM PANEL TO LOAD FOR SINGLE PHASE.

1 MAXIMUM BRANCH WIRING DISTANCE FOR 3% VOLTAGE DROP
SCALE: NOT TO SCALE

Rev Description Date

- Issued for Class C Costing 2022-07-27
- Issued for Client Review 2022-11-10
- Issued for 80% CD Review 2023-02-15
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- Issued for Site Plan Application 2023-11-22
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- Issued for Building Permit 2024-12-04
- Issued for Tender 2025-01-14

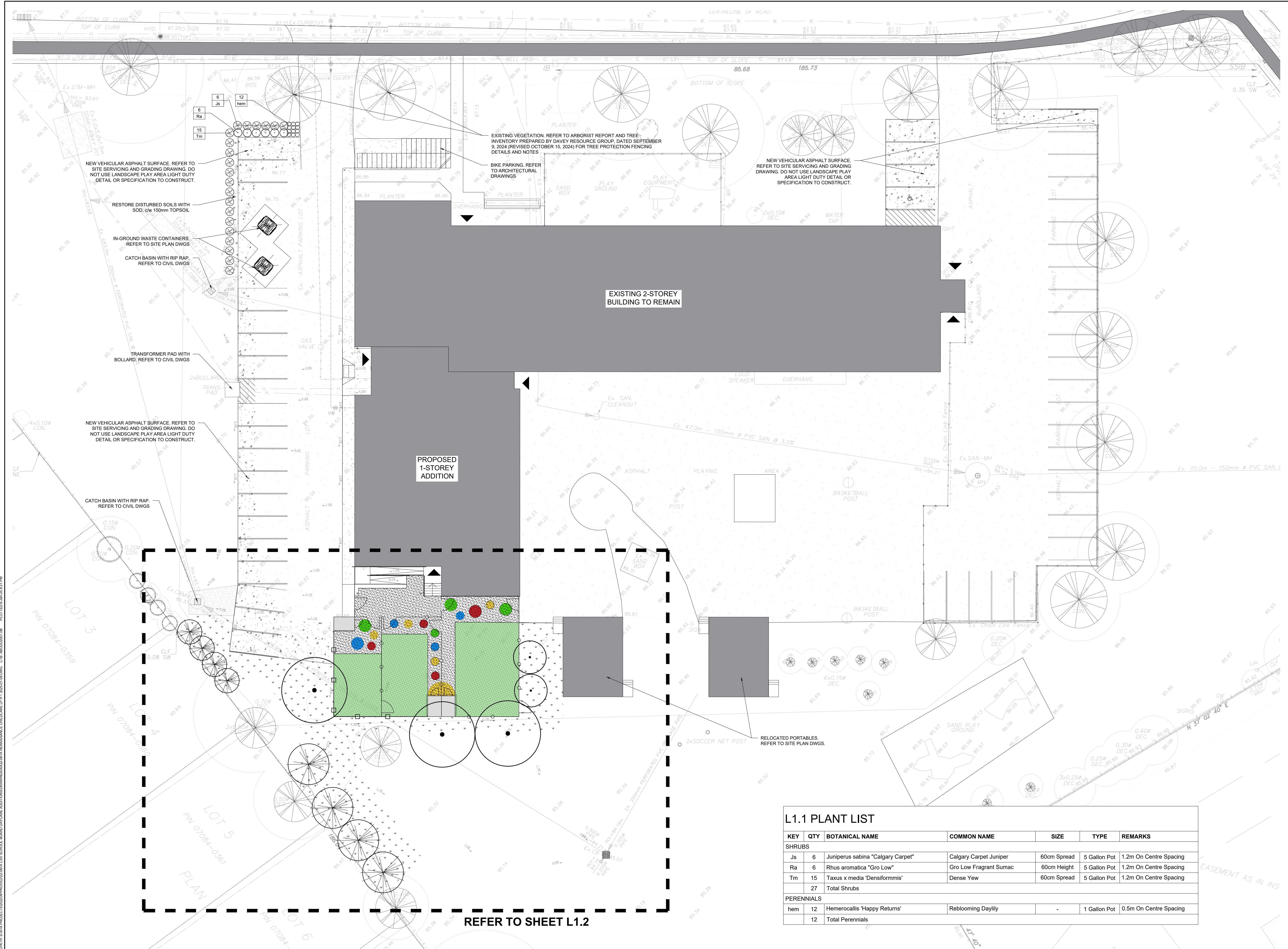


CSV Renaissance Addition

1226 Lockhart Rd
Burlington, ON L7S 1H1

PROJECT CODE: ED-22-018
SCALE: Not to Scale

DATE: 2022-10-27
STATUS: Coordination



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Rev	Description	Date
1	Issued for Internal Review	20 Jan, 2023
2	Issued for 80% Review	24 Feb, 2023
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5	Reissued for Site Plan Approval	22 Oct, 2024
6	Issued for Building Permit	18 Nov, 2024
7	Issued for Tender	09 Jan, 2025

- LEGEND:**
- EXISTING TREE
 - PROPOSED DECIDUOUS TREE
 - PROPOSED CONIFEROUS TREE
 - PROPOSED ARTIFICIAL TURF
 - PROPOSED SOD
 - PROPOSED ASPHALT SURFACE
 - PROPOSED 1524mm HEIGHT CHAIN LINK FENCE
 - PROPOSED 1800mm HEIGHT BOARD FENCE
 - PLANT KEY



CSV Renaissance Daycare Addition

1226 Lockhart Road
Burlington

PROJECT CODE: 22_05
SCALE: 1:200
DATE: 20 Jan, 2023
STATUS: Design Development

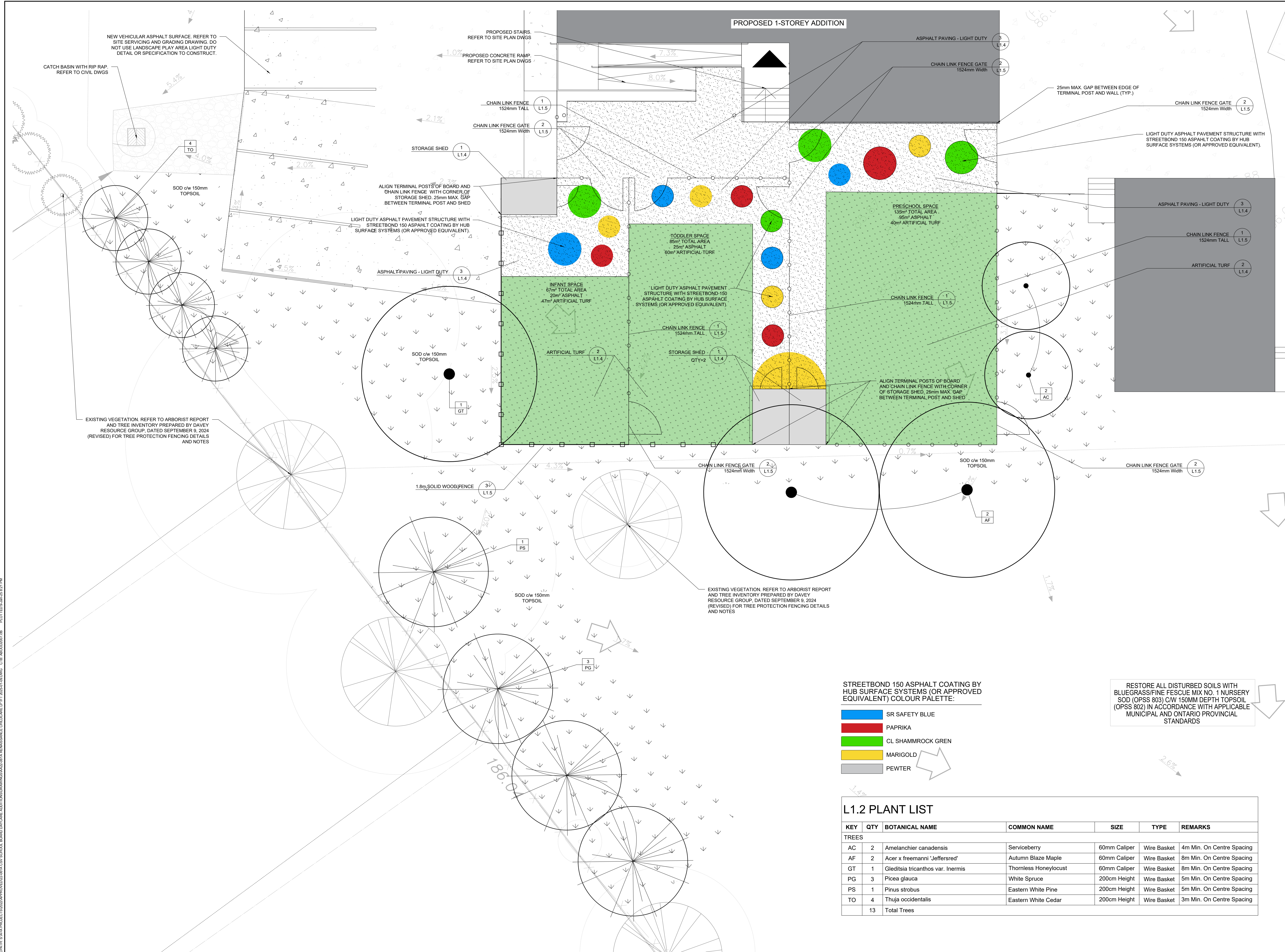
Landscape Plan Overview

L1.1 PLANT LIST

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	REMARKS
SHRUBS						
Js	6	Juniperus sabinia "Calgary Carpet"	Calgary Carpet Juniper	60cm Spread	5 Gallon Pot	1.2m On Centre Spacing
Ra	6	Rhus aromatica "Gro Low"	Gro Low Fragrant Sumac	60cm Height	5 Gallon Pot	1.2m On Centre Spacing
Tm	15	Taxus x media "Densiformis"	Dense Yew	60cm Spread	5 Gallon Pot	1.2m On Centre Spacing
	27	Total Shrubs				
PERENNIALS						
hem	12	Hemerocallis "Happy Returns"	Reblooming Daylily	-	1 Gallon Pot	0.5m On Centre Spacing
	12	Total Perennials				

REFER TO SHEET L1.2

FILE PATH: S:\A\A PROJECTS\2022\APPROVED\22-05-01-00-DWG_CTB_ARCH\020207.dwg PLOTTED: 2025-01-23 12:21 PM



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 - PROPOSED SOD
 - PROPOSED LIGHT DUTY ASPHALT SURFACE
 - PROPOSED 1524mm HEIGHT CHAIN LINK FENCE
 - PROPOSED 1800mm HEIGHT BOARD FENCE
 - PLANT KEY

STREETBOND 150 ASPHALT COATING BY HUB SURFACE SYSTEMS (OR APPROVED EQUIVALENT) COLOUR PALETTE:

- SR SAFETY BLUE
- PAPRIKA
- CL SHAMMOCK GREN
- MARIGOLD
- PEWTER

RESTORE ALL DISTURBED SOILS WITH BLUEGRASS/FINE FESCUE MIX NO. 1 NURSERY SOD (OPSS 803) C/W 150MM DEPTH TOPSOIL (OPSS 802) IN ACCORDANCE WITH APPLICABLE MUNICIPAL AND ONTARIO PROVINCIAL STANDARDS

L1.2 PLANT LIST

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	REMARKS
TREES						
AC	2	Amelanchier canadensis	Serviceberry	60mm Caliper	Wire Basket	4m Min. On Centre Spacing
AF	2	Acer x freemannii 'Jeffersred'	Autumn Blaze Maple	60mm Caliper	Wire Basket	8m Min. On Centre Spacing
GT	1	Gleditsia tricanthos var. Inermis	Thornless Honeylocust	60mm Caliper	Wire Basket	8m Min. On Centre Spacing
PG	3	Picea glauca	White Spruce	200cm Height	Wire Basket	5m Min. On Centre Spacing
PS	1	Pinus strobus	Eastern White Pine	200cm Height	Wire Basket	5m Min. On Centre Spacing
TO	4	Thuja occidentalis	Eastern White Cedar	200cm Height	Wire Basket	3m Min. On Centre Spacing
	13	Total Trees				



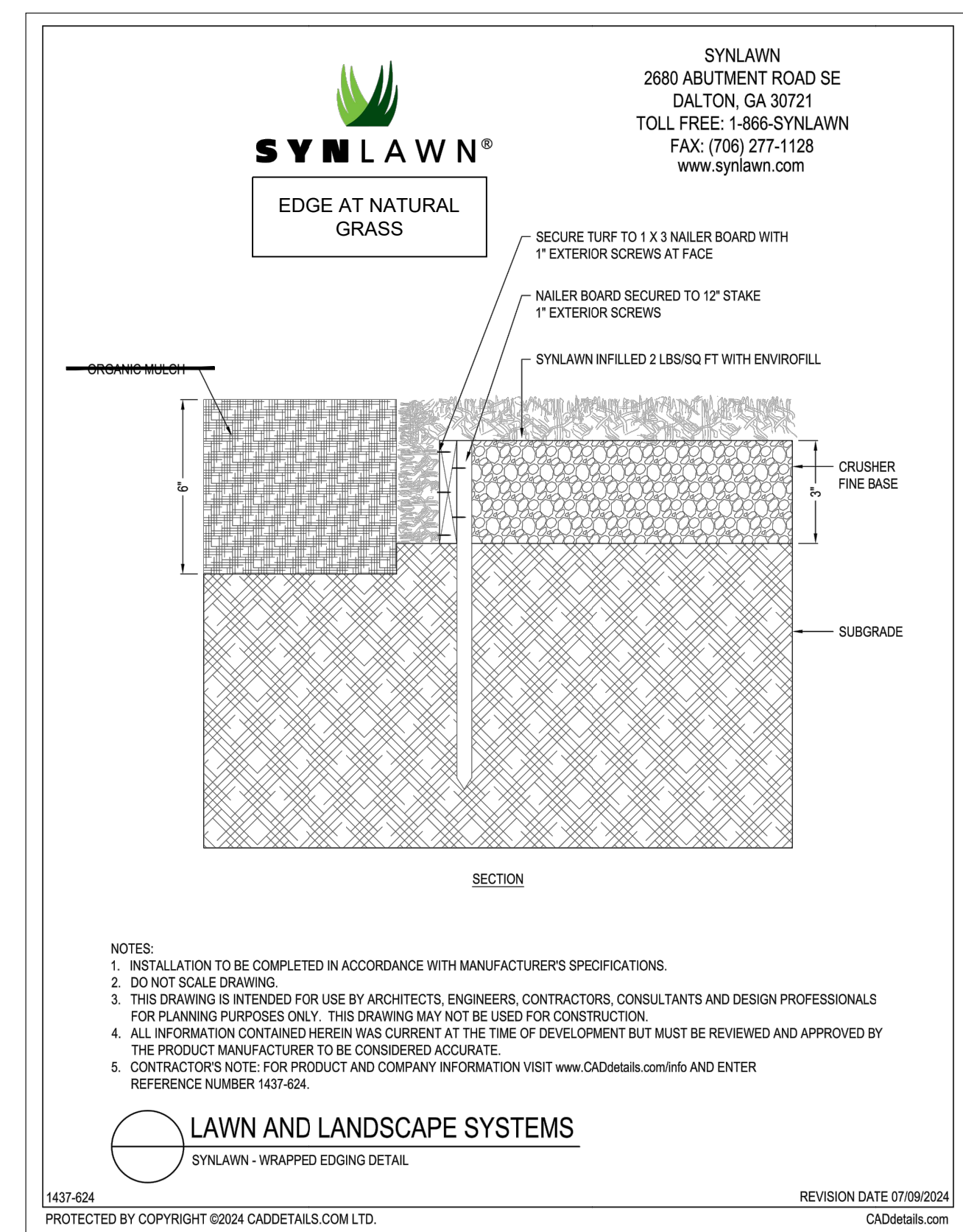
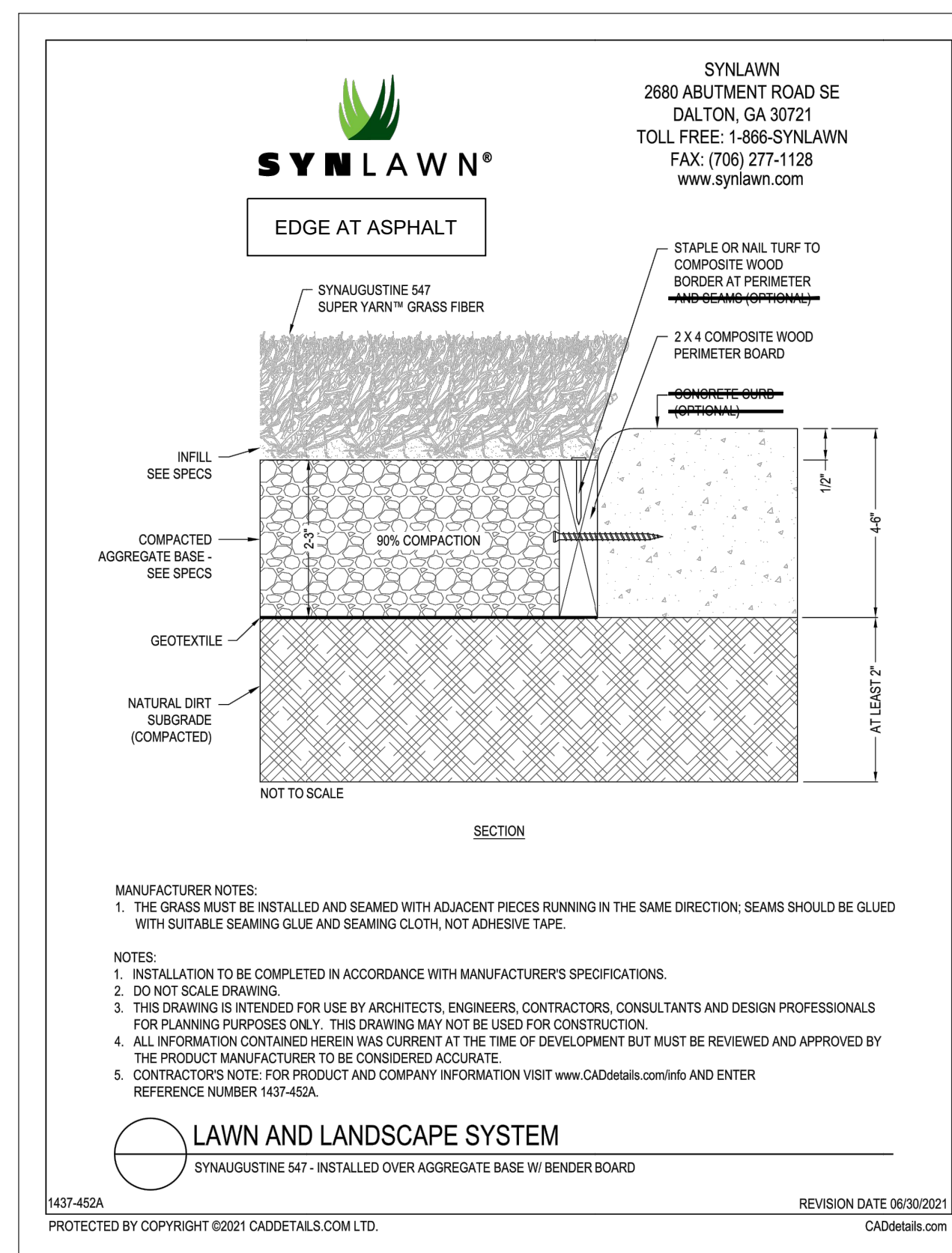
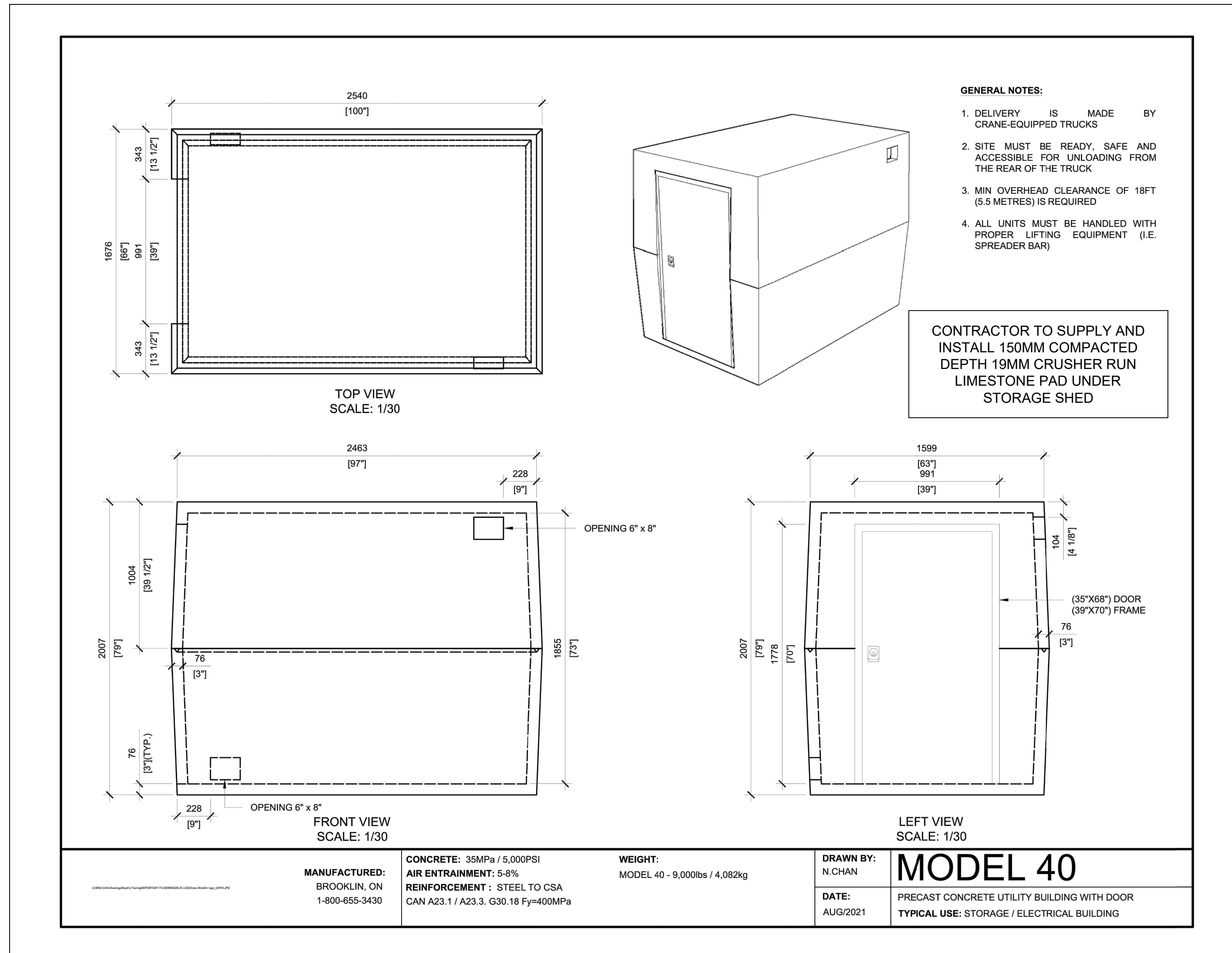
CSV Renaissance Daycare Addition

1226 Lockhart Road
Burlington

PROJECT CODE: 22_05
SCALE: 1 : 75
DATE: 20 Jan, 2023
STATUS: Design Development

Landscape Plan Enlargement

FILE PATH: S:\A\A PROJECTS\2022\APPROVED\22-05-01-CSV-SCHOOL-BOARD-DAYCARE-ADDITION\DRAWINGS\22-05-01-CSV-RENAISSANCE-DAYCARE-ADDITION-CHILD-CARE-LP-22-05-01-01.DWG CTR: AB002007-08 PLOTTED: 2025-01-21 11:21 AM



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CONCEPT DRAWING FOR INFORMATION TO CONVEY DESIGN INTENT ONLY
CONTRACTOR TO PROVIDE SITE SPECIFIC DETAILED SHOP DRAWINGS INDICATING MATERIALS, DIMENSIONS, SIZES, REINFORCING, AND FINISHES DESIGN FOR REVIEW BY THE ARCHITECT, LANDSCAPE ARCHITECT AND CLIENT PRIOR TO FABRICATION AND INSTALLATION. CONTRACTOR TO INCLUDE COST OF SHOP DRAWINGS, MATERIALS, FABRICATION AND INSTALLATION AS PART OF BID.

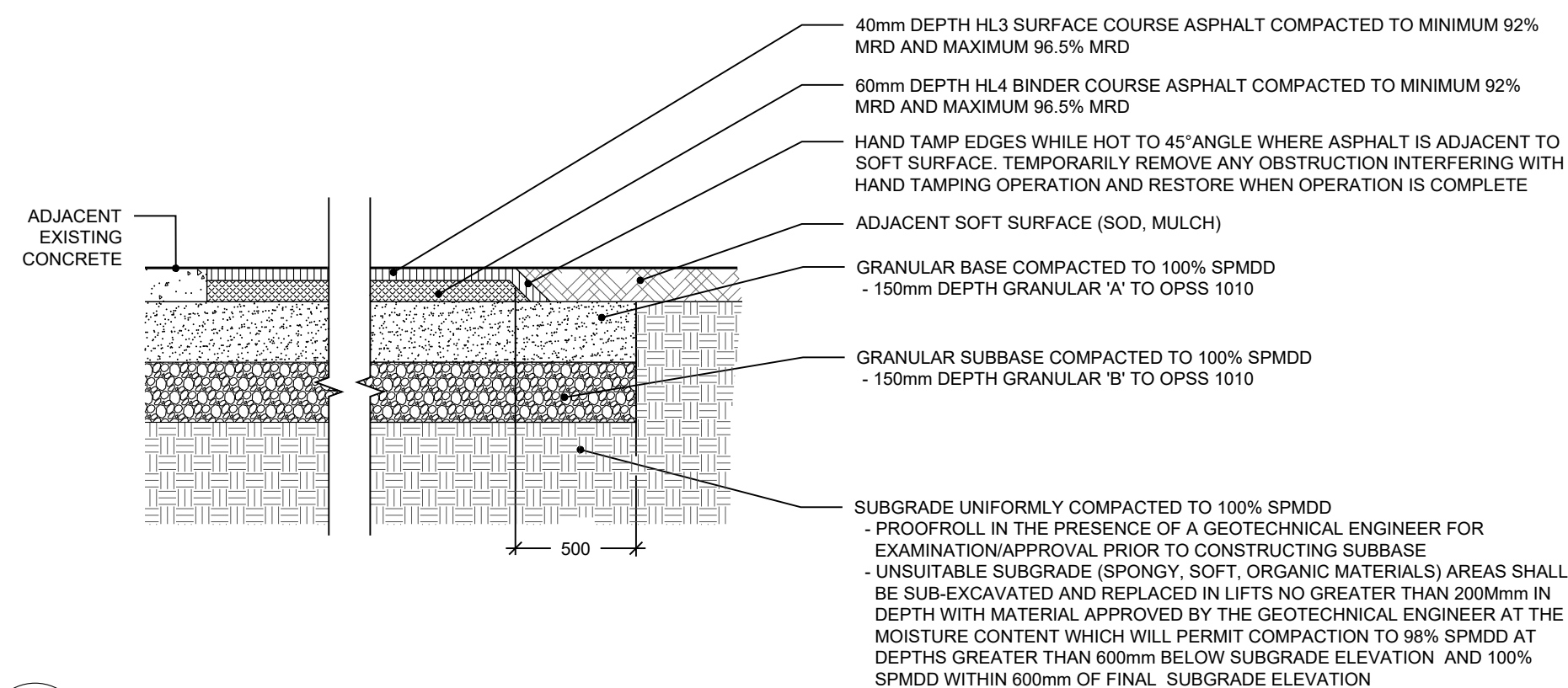
1 STORAGE SHED
L1.4 N.T.S.

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS. DO NOT SCALE DRAWING.
- EXISTING GRANULAR BASE MATERIAL ON SITE MAY BE REUSED FOR NEW PAVING INSTALLATIONS, PROVIDED THAT MATERIAL IS INSPECTED AND APPROVED IN WRITING BY A GEOTECHNICAL ENGINEER.
- AGGREGATE MATERIALS SHALL CONFORM TO OPSS 1001, OPSS 1003 AND OPSS 1010.
- ASPHALT MATERIALS SHALL CONFORM TO OPSS 1150.
- TACK COAT SHALL BE AN ASPHALTIC EMULSION SS-1, DILUTED WITH AN EQUAL VOLUME OF WATER, CONFORMING TO OPSS 1103.
- MIX, HANDLE, PLACE AND COMPACT ASPHALT IN ACCORDANCE WITH OPSS 310.
- SPECIFIED DEPTHS OF MULCH, SAFETY SURFACE AND TOPSOIL ARE DEPTHS AFTER SETTLEMENT. SPECIFIED DEPTH OF ASPHALT AND GRANULAR BASES IS COMPACTED DEPTH.
- ENSURE THAT THERE IS A SMOOTH TRANSITION BETWEEN HARD AND SOFT SURFACES (ASPHALT TO SOIL AND ASPHALT TO MULCH).
- CONTRACTOR SHALL PROVIDE GEOTECHNICAL ENGINEER'S WRITTEN APPROVAL OF MATERIALS, COMPACTION AND DENSITY TESTING RESULTS, AS WELL AS VERIFICATION OF DEPTHS, FOR FILL, SUBGRADE, GRANULAR SUBBASE, GRANULAR BASE, ASPHALT BINDER COURSE, AND ASPHALT SURFACE COURSE PRIOR TO PROCEEDING TO EACH SUBSEQUENT COURSE.

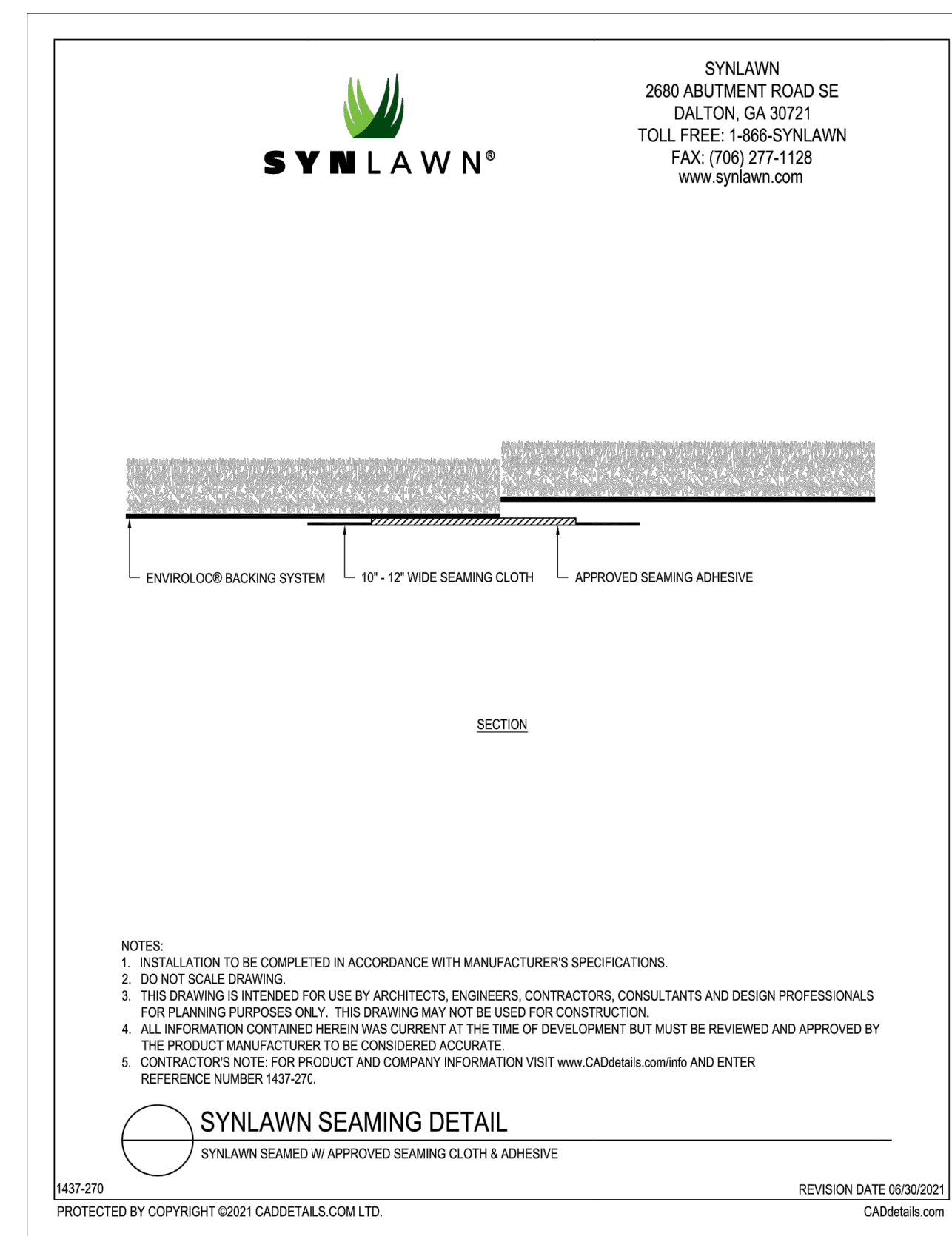
ASPHALT PATCHING AND SEAMS AT EXISTING ASPHALT NOTES

- SAW OUT EXISTING PAVEMENT AND CREATE 300MM STEP JOINT
- EXISTING PAVEMENT SHALL BE REMOVED OVER ANY UNDERMINING. ALL VERTICAL EDGES TO BE TACK COATED WITH SS-1 EMULSIFIED ASPHALT TO OPSS 310. SURFACE OF ALL EDGES TO BE SEALED WITH A BEAD OF HOT RUBBERIZED ASPHALT.



3 ASPHALT PAVING - LIGHT DUTY
L1.4 N.T.S.

2 ARTIFICIAL TURF
L1.4 N.T.S.



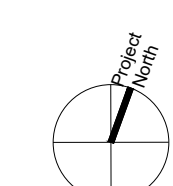
CSV Renaissance
Daycare Addition

1226 Lockhart Road
Burlington



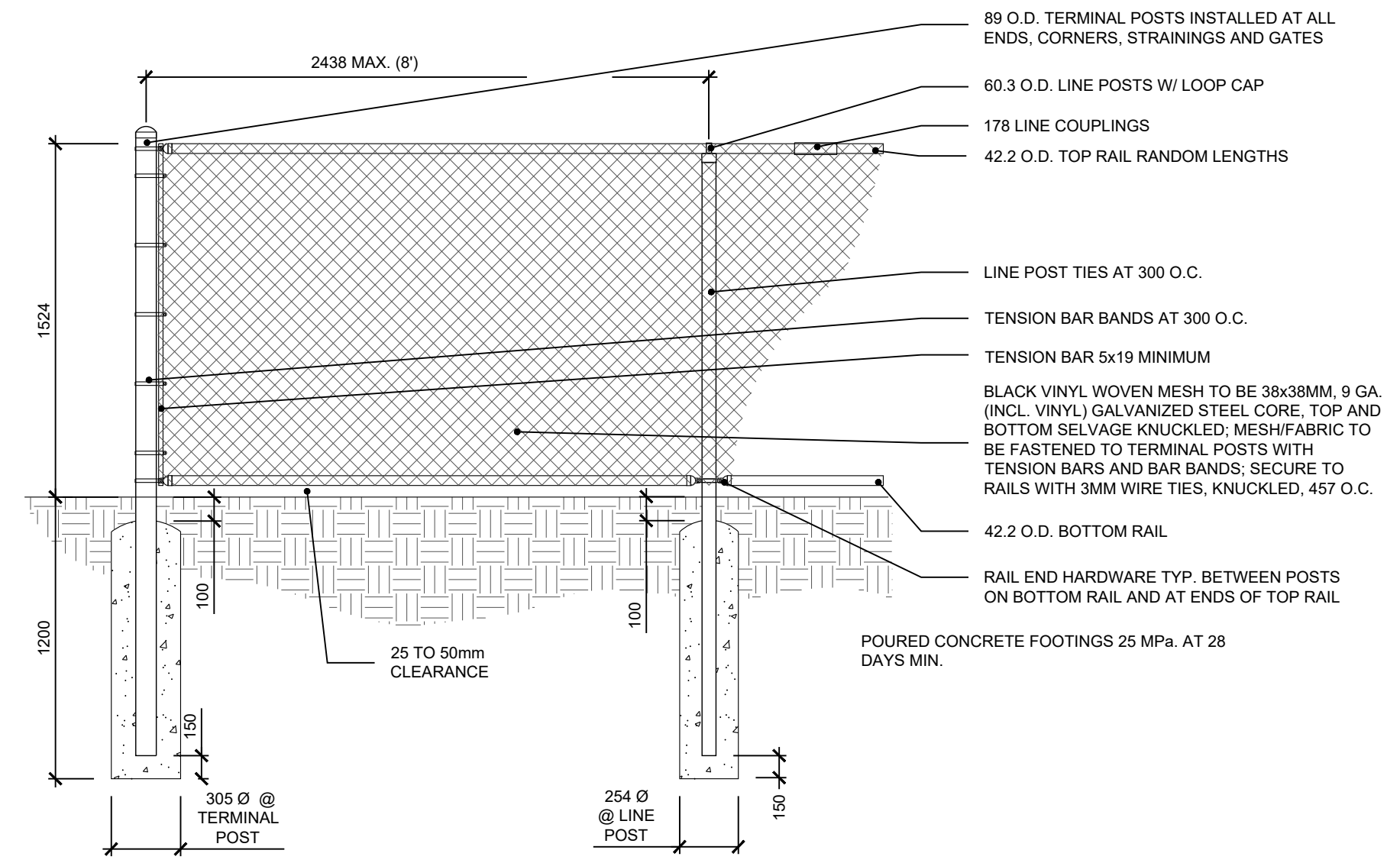
PROJECT CODE: 22_05
SCALE: AS SHOWN
DATE: 20 Jan, 2023
STATUS: Design Development

Proposed Landscape Plan
Details II



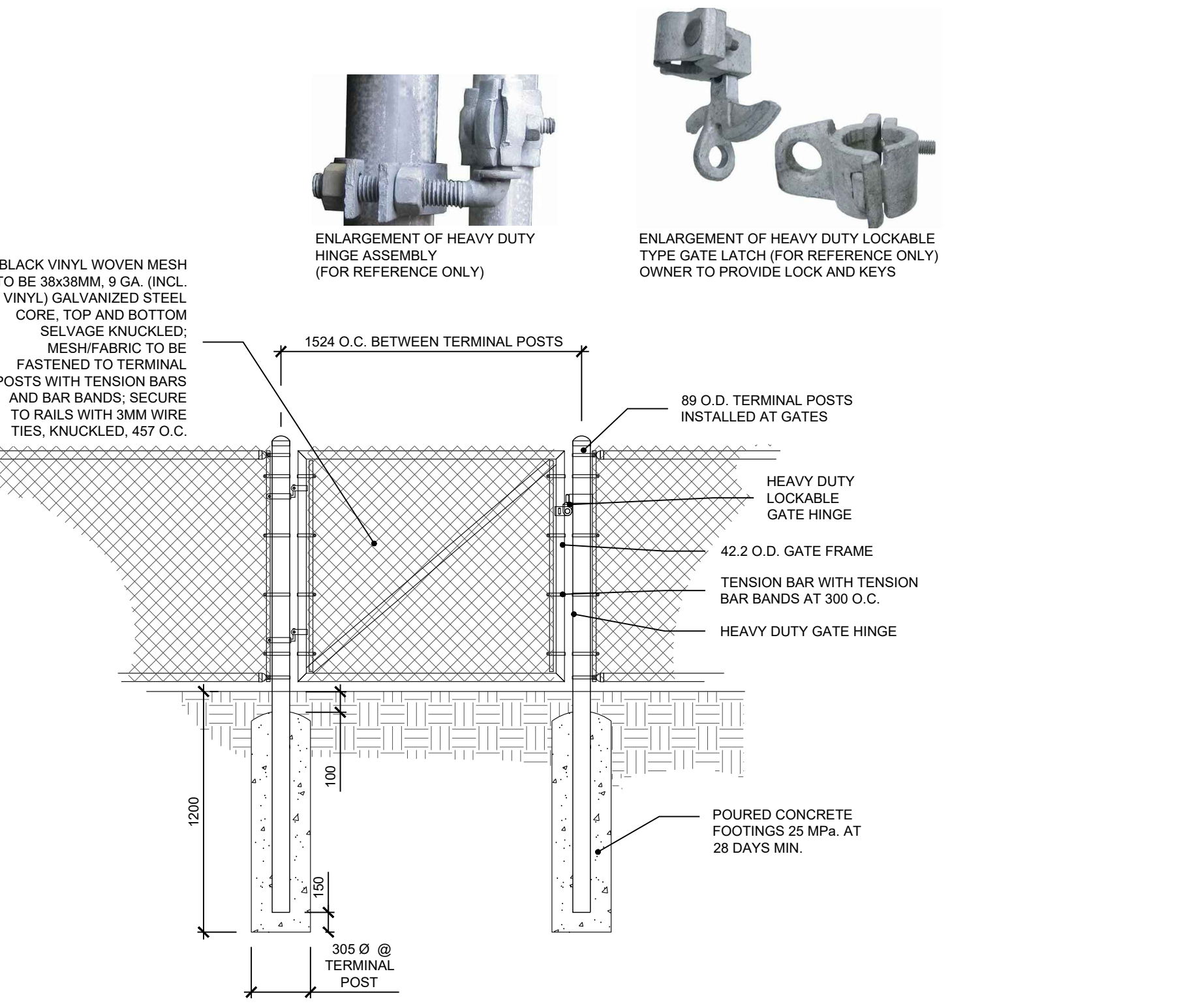
drawing number
L1.4

NOTES:
 1. ALL FENCE POSTS AND RAILS TO BE GALVANIZED SCHEDULE 40 PIPE TO ASTM A53/A53M-12 AND ASTM A123/A123M - 17.
 2. FINISH ON POSTS, RAILS, AND FITTINGS TO BE BLACK GLOSS ENAMEL BY POWDER COAT APPLICATION. ALL SURFACES TO BE CHEMICALLY CLEANED AND TREATED PRIOR TO COATING WITH PARKER BONDERITE AND CHLOROTHENE SOLVENT OR APPROVED EQUALS. POWDER COATING MUST BE A POLYESTER 2000 SERIES, THICKNESS OF 4-5 MILS BY ELECTROSTATIC PROCESS, OVEN-CURED TO A SMOOTH AND EVEN SURFACE.
 3. PLASTIC COUPLINGS, FITTINGS OR ANY OTHER PLASTIC COMPONENTS WILL NOT BE ACCEPTED.



1 CHAIN LINK FENCE
 L1.5 N.T.S.

NOTES:
 1. ALL GATE FRAME TO BE SHOP BENT AND GROUND SMOOTH GALVANIZED 42.2mm O.D. SCHEDULE 40 PIPE TO ASTM A53/A53M-12 AND ASTM A123/A123M - 17.
 2. FINISH ON POSTS, RAILS, AND FITTINGS TO BE BLACK GLOSS ENAMEL BY POWDER COAT APPLICATION. ALL SURFACES TO BE CHEMICALLY CLEANED AND TREATED PRIOR TO COATING WITH PARKER BONDERITE AND CHLOROTHENE SOLVENT OR APPROVED EQUALS. POWDER COATING MUST BE A POLYESTER 2000 SERIES, THICKNESS OF 4-5 MILS BY ELECTROSTATIC PROCESS, OVEN-CURED TO A SMOOTH AND EVEN SURFACE.
 3. PLASTIC COUPLINGS, FITTINGS OR ANY OTHER PLASTIC COMPONENTS WILL NOT BE ACCEPTED.



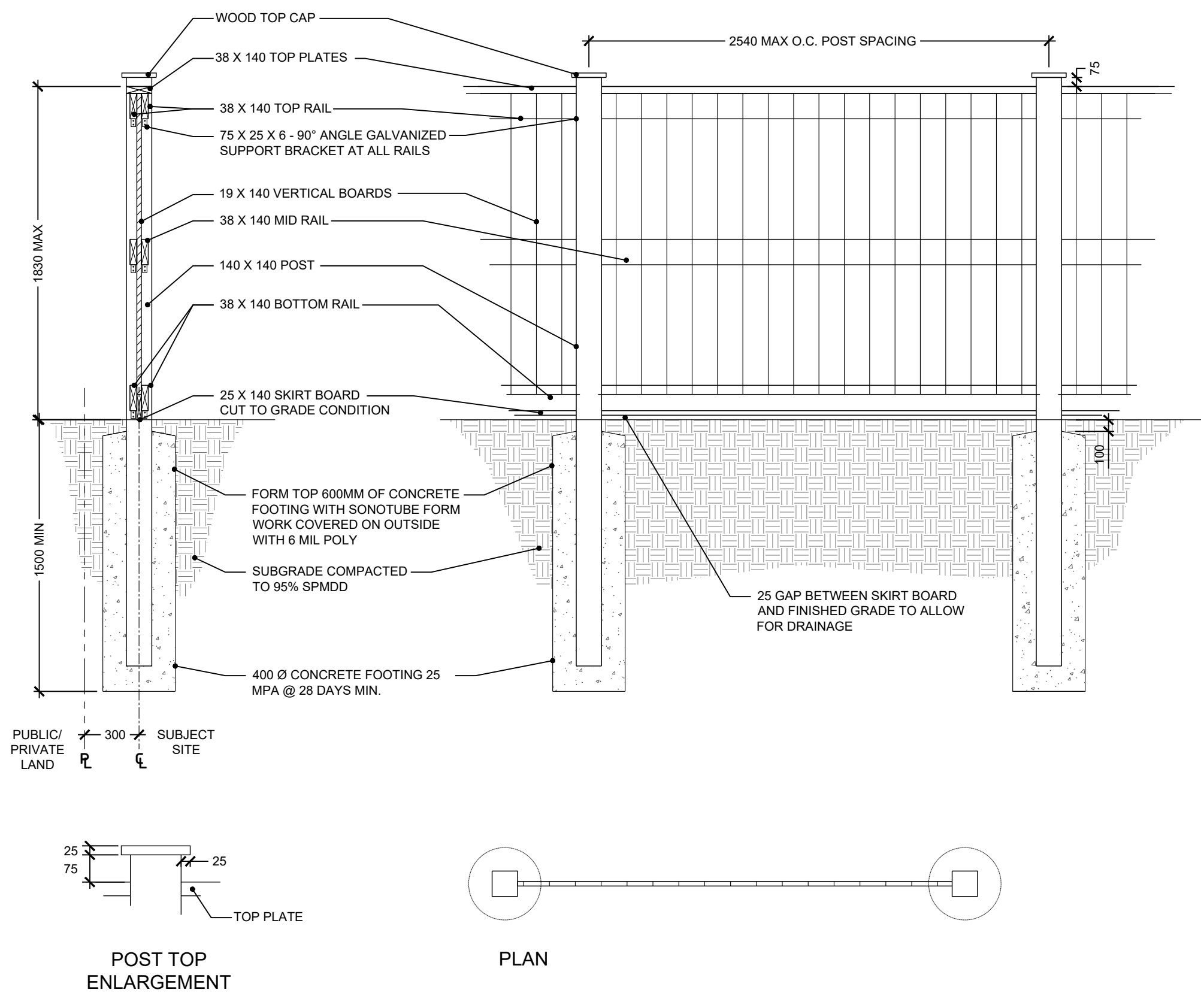
2 CHAIN LINK SINGLE SWING GATE
 L1.5 N.T.S.

MASTER PLANT LIST

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	REMARKS
TREES						
AC	2	Amelanchier canadensis	Serviceberry	60mm Caliper	Wire Basket	4m Min. On Centre Spacing
AF	2	Acer x freemanni 'Jeffersred'	Autumn Blaze Maple	60mm Caliper	Wire Basket	8m Min. On Centre Spacing
GT	1	Gleditsia tricanthos var. inermis	Thornless Honeylocust	60mm Caliper	Wire Basket	8m Min. On Centre Spacing
PG	3	Picea glauca	White Spruce	200cm Height	Wire Basket	5m Min. On Centre Spacing
PS	1	Pinus strobus	Eastern White Pine	200cm Height	Wire Basket	5m Min. On Centre Spacing
TO	4	Thuja occidentalis	Eastern White Cedar	225cm Height	Wire Basket	2.5m Min. On Centre Spacing
	13	Total Trees				
SHRUBS						
Js	6	Juniperus sabina 'Calgary Carpet'	Calgary Carpet Juniper	60cm Spread	5 Gallon Pot	1.2m On Centre Spacing
Ra	6	Rhus aromatica 'Gro Low'	Gro Low Fragrant Sumac	60cm Height	5 Gallon Pot	1.2m On Centre Spacing
Tm	15	Taxus x media 'Densiformis'	Dense Yew	60cm Spread	5 Gallon Pot	1.2m On Centre Spacing
	27	Total Shrubs				
PERENNIALS						
hem	12	Hemerocallis 'Happy Returns'	Reblooming Daylily	-	1 Gallon Pot	0.5m On Centre Spacing
	12	Total Perennials				

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Rev	Description	Date
1	Issued for Internal Review	20 Jan, 2023
2	Issued for 80% Review	24 Feb, 2023
3	Issued for 90% Review	19 Sep, 2024
4	Issued for Site Plan Approval	07 Oct, 2024
5	Reissued for Site Plan Approval	22 Oct, 2024
6	Issued for Building Permit	18 Nov, 2024
7	Issued for Tender	09 Jan, 2025



NOTES:
 1. ALL DIMENSIONS SHOWN ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
 2. STEP FENCING PANELS 50mm MIN AND 150mm MAX AT POSTS AS REQUIRED BY GRADE CONDITIONS.
 3. ALL MATERIALS, COMPONENTS AND WORKMANSHIP TO CONFORM TO OBC AND LOCAL BY-LAWS.
 4. ALL LUMBER SIZES ARE ACTUAL RATHER THAN NOMINAL.
 5. ALL WOOD SHALL BEAR GRADING STAMP OF C.L.S. CERTIFIED AGENCY.
 6. WARRANTY: THE FENCE SHALL BE GUARANTEED FOR THREE YEARS AS FOLLOWS: 5mm MIN ON PLUMB OF POSTS AND LEVEL OF VERTICAL BOARDS. GAPS BETWEEN VERTICAL BOARDS SHALL NOT EXCEED 6mm, VERTICAL BOARDS SHALL BE TIGHT AND FREE OF RATTLING.
 7. WOOD:
 7.1. ALL WOOD SHALL BE PRESSURE TREATED SELECTED FOR GOOD APPEARANCE AND FREE OF WANE AND BARK POCKETS.
 7.2. ALL TORN GRAIN AND SURFACE STAIN SHALL BE ELIMINATED BY SANDING OR PLANING.
 7.3. MEMBERS WITH HEAVY KNOTS AND/OR SAP STAIN SHALL BE WELL DISTRIBUTED THROUGHOUT THE INSTALLATION.
 7.4. MOISTURE CONTENT OF WOOD SHALL NOT EXCEED 20% AT TIME OF CONSTRUCTION.
 7.5. VERTICAL/HORIZONTAL BOARDS:
 7.5.1. TO NLGA 204A OR BETTER "SELECT KNOTTY" GRADE
 7.6. POSTS
 7.6.1. TO NLGA 131B/F STRUCTURAL POST AND TIMBER
 7.6.2. SHALL BE PLUMB WITHIN 5mm/m ABOVE GRADE
 8. FASTENERS
 8.1. ALL FASTENERS INCLUDING ARDOX NAILS, LAG SCREWS, BOLTS, NUTS, WASHERS AND BRACKETS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE TO CSA STANDARD G164. LAG SCREWS AND BOLTS SHALL CONFORM TO ASTM A307
 8.2. COUNTER-SINK ALL LAG SCREWS AND BOLTS AND DRIVE ALL NAIL HEADS BELOW SURFACE OF WOOD.
 8.3. ALL ARDOX NAILS TO BE EVENLY SPACED AND SET NOT LESS THAN 25mm FROM EDGE OF ANY WOOD MEMBER.
 8.4. USE SUFFICIENT SIZE AND QUANTITY OF FASTENERS TO ENSURE A STABLE AND SECURE STRUCTURE.

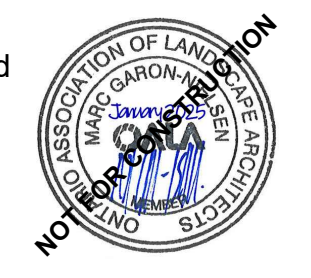
3 1.8m SOLID WOOD PRIVACY FENCE
 L1.5 N.T.S.

FILE PATH: S:\A\A PROJECTS\2022\APPROVED\22-061A CSV SCHOOL BOARD DAYCARE ADDITION\DRAWINGS\22-061A RENAISSANCE CHILD CARE LP 2022-01-09.DWG CTR: AB0420207-08 PLOTTED: 2025-01-23 12:21 PM



CSV Renaissance
 Daycare Addition

1226 Lockhart Road
 Burlington



PROJECT CODE: 22_05
 SCALE: AS SHOWN
 DATE: 20 Jan, 2023
 STATUS: Design Development

Proposed Landscape Plan
 Details III

drawing number
L1.5