

City of Toronto
Metro Hall Fire Station & Early Years Child Care Centre Renovation

Revised for 100% Final Design Package

08 JUL 24

ARCHITECTURAL

C-A000	Cover Page
C-A010	Child Care Site Plan, Context Plan, & Building Section
C-A011	Playground Details
C-A012	Playground Details
C-A013	Site - Fence Details
C-A014	Site - Storage Shed Details
C-A015	Unnamed
C-A030	Child Care Elements, Code Matrix, Symbols, & Abbreviations
C-A050	Doors and Screens Schedule
C-A051	Child Care Demolition Plans
C-A101	Child Care Level 1 Floor Plan
C-A102	Child Care Mezzanine & Finishes Plan
C-A201	Child Care Level 1 Reflected Ceiling Plan
C-A460	Interior Details
C-A801	Interior Elevations
C-A802	Interior Elevations & Washroom Accessories
C-A803	Interior Elevations & Millwork
C-A804	Interior Elevations & Millwork
C-A861	Millwork Details
C-A862	Millwork Details

ELECTRICAL

E-001	ELECTRICAL LEGEND & DRAWING LIST
E-101	EXTERIOR ELECTRICAL LAYOUT
E-201	LEVEL 1 LIGHTING PLAN
E-300	P1 LEVEL ELECTRICAL PLANS
E-301	LEVEL 1 POWER & SYSTEMS PLAN
E-302	MECHANICAL MEZZANINE POWER & SYSTEMS PLAN
E-501	ELECTRICAL RISERS & SCHEMATICS
E-502	LIGHTING CONTROL SCHEMATICS
E-701	ELECTRICAL SCHEDULES
ED-201	LEVEL 1 ELECTRICAL DEMOLITION PLAN
ED-301	MECHANICAL MEZZANINE ELECTRICAL DEMOLITION PLAN
AV101	COVER SHEET
AV101	DAYCARE AUDIO VISUAL LAYOUT
AV101	AUDIO VISUAL ROOM ENLARGEMENTS
AV101	FUNCTIONAL DIAGRAM
AV102	AV RISER
AV101	DETAILS
S0001	COVER SHEET
S0101	DAYCARE DEMOLITION LAYOUT
S0101B	DAYCARE SECURITY LAYOUT

T001	COVER SHEET
T101	LEVEL P1 CABLEING SYSTEM LAYOUT
T102A	LEVEL 1 DEMOLITION LAYOUT
T102B	DAYCARE CABLEING SYSTEM LAYOUT, HUB ROOM LAYOUT, AND RACK ELEVATION
T103	UPPER GROUND FLOOR LAYOUT
T301	DETAILS
T302	RISER

STRUCTURAL

S000	COVER
S100	GENERAL NOTES AND TYPICAL DETAILS
S101	GENERAL NOTES AND TYPICAL DETAILS
S102	GENERAL NOTES AND TYPICAL DETAILS
S201	EX LEVEL 1 PLAN
S202	EX LEVEL 2 PLAN
S401	ELEVATIONS
S800	SECTIONS AND DETAILS

LANDSCAPE

L1	TREE MANAGEMENT PLAN
L2	KING STREET LANDSCAPE PLAN

MECHANICAL

M001	MECHANICAL LEGEND AND DRAWING LIST
M100	LEVEL 1 - PSD DEMOLITION PLAN
M101	LEVEL 1 - PSD NEW
M200	LEVEL 1 - FIRE PROTECTION DEMOLITION PLAN
M201	LEVEL 1 - FIRE PROTECTION NEW
M300	LEVEL 1 - HVAC DEMOLITION PLAN
M301	LEVEL 1 - HVAC NEW PLAN
M302	MEZZANINE - HVAC DEMOLITION PLAN
M303	MEZZANINE - HVAC NEW PLAN
M400	MECHANICAL SCHEDULES
M500	MECHANICAL DETAILS



Architect

Diamond Schmitt Architects
384 Adelaide Street West, Suite 100
Toronto, ON M5V 1R7
T: (416) 862-8800

Structural

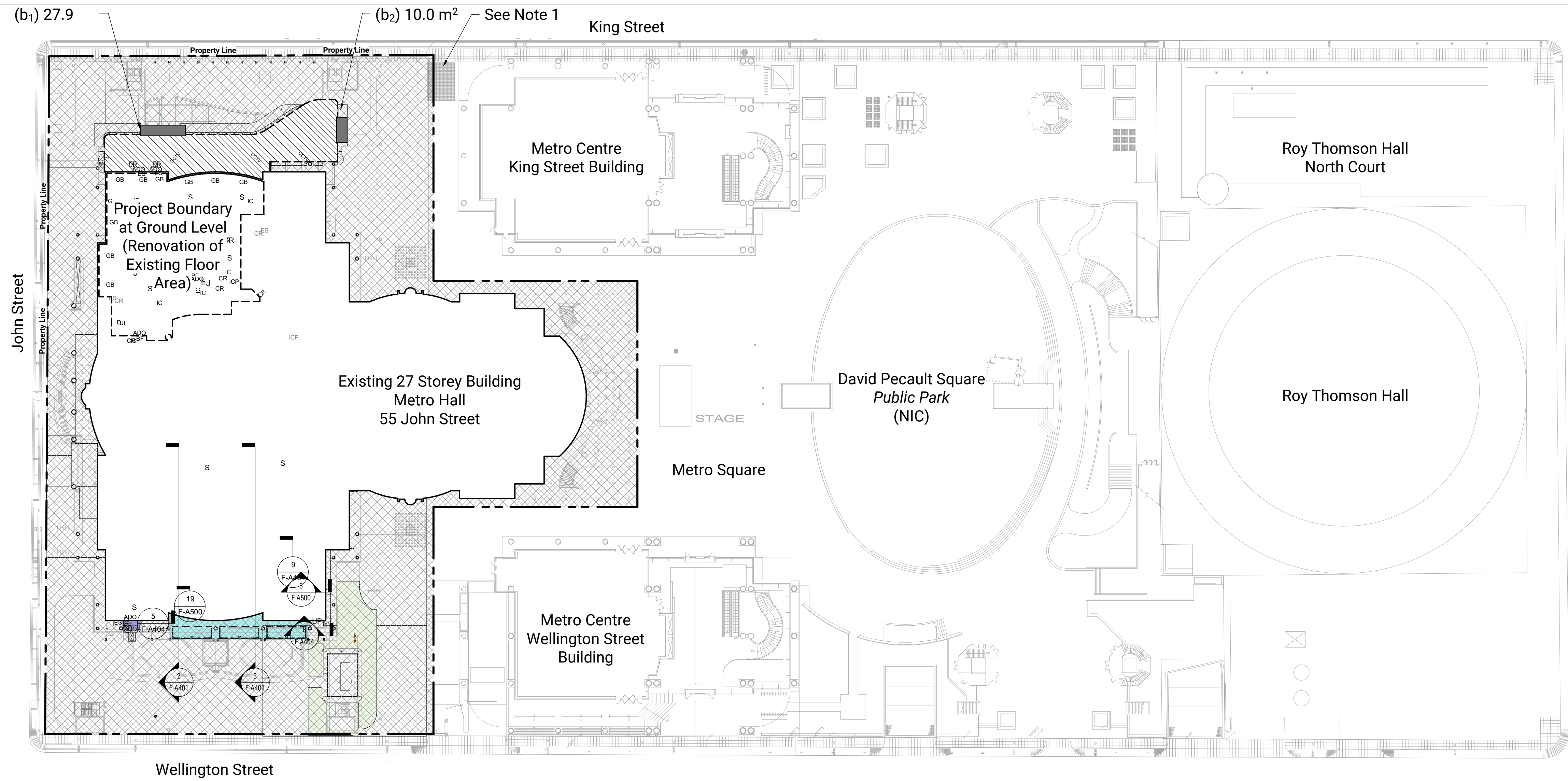
Reed Jones Christoffersen Limited
100 University Avenue, North Tower Suite 300
Toronto, ON M5J 1V6
T: (416) 977-5335

Mechanical & Electrical

The HJD Group Inc
155 Gordon Eacker Road, Suite 200
Toronto, ON M2H 3N5
T: (416) 364-2100

Landscape

Hill Design Studio Inc.
303-1601 River Road East
Kitchener, ON N2A 3Y4
T: (226) 686-0700



Storage Shed	Area (m²)
Infant & Toddler Storage Shed (b-1)	15.1
Preschool Storage Shed (b-2)	9.1
Total (b)	24.2

Notes:

Information in this Plan is Based on Drawing Entitled "Metro Square & David Pecaut Square" and "Topographic Survey of..." as Prepared by City of Toronto Engineering & Construction Services (Engineering Support Services) Land & Property Surveys Services Dated July 8th, 2020.

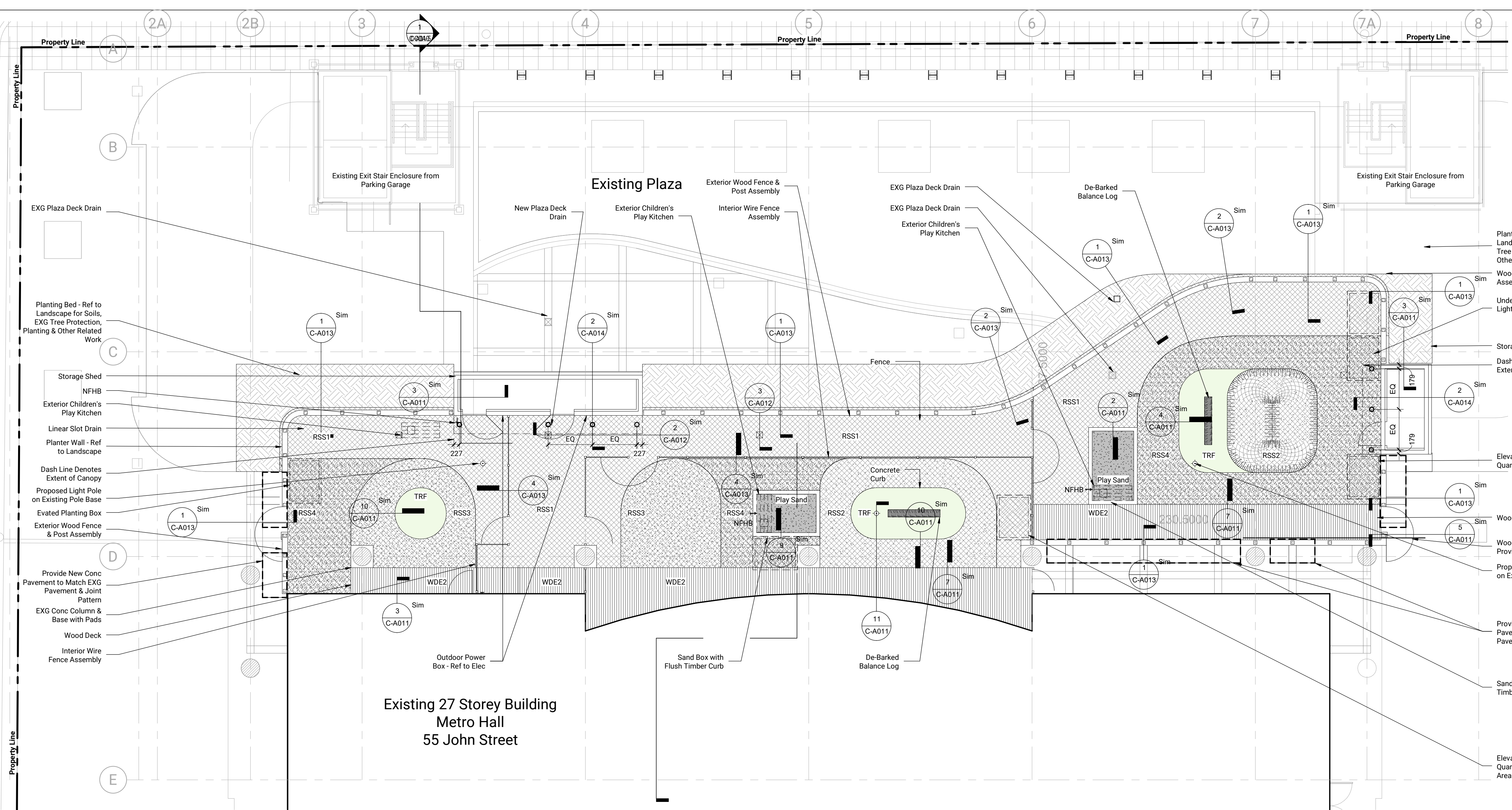
(*) Information Regarding Existing Storage Sheds is Based on Drawings Entitled "Metro Hall Child Care Centre Landscape/Playground Renovations" by PMA Landscape Architects Limited Dated July 6, 2017.

(†) "MHELOCC" Refers to The Metro Hall Early Years Child Care Centre.

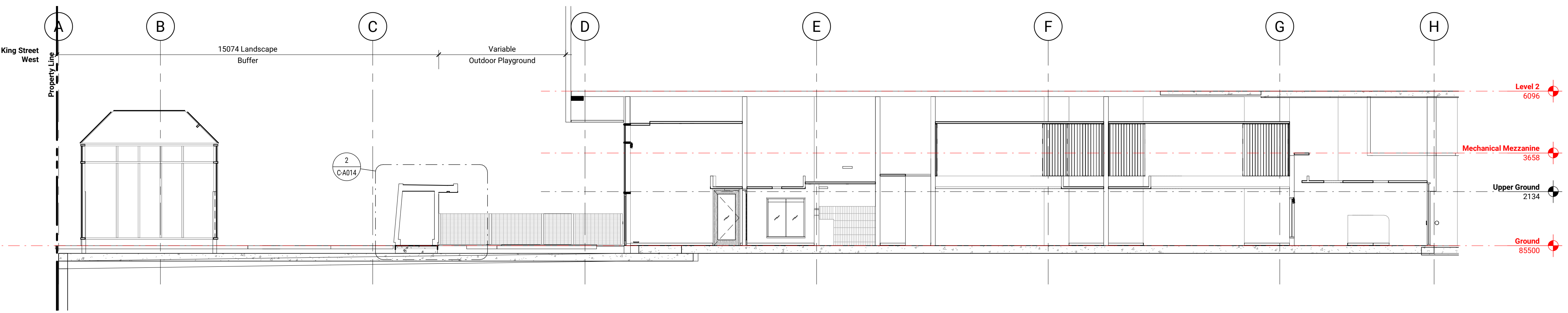
1. General Contractor Note: Construction Access Point From King Street. Obtain Permission From Owner for Access Times & Frequency Prior to Commencing Work.

Since Street

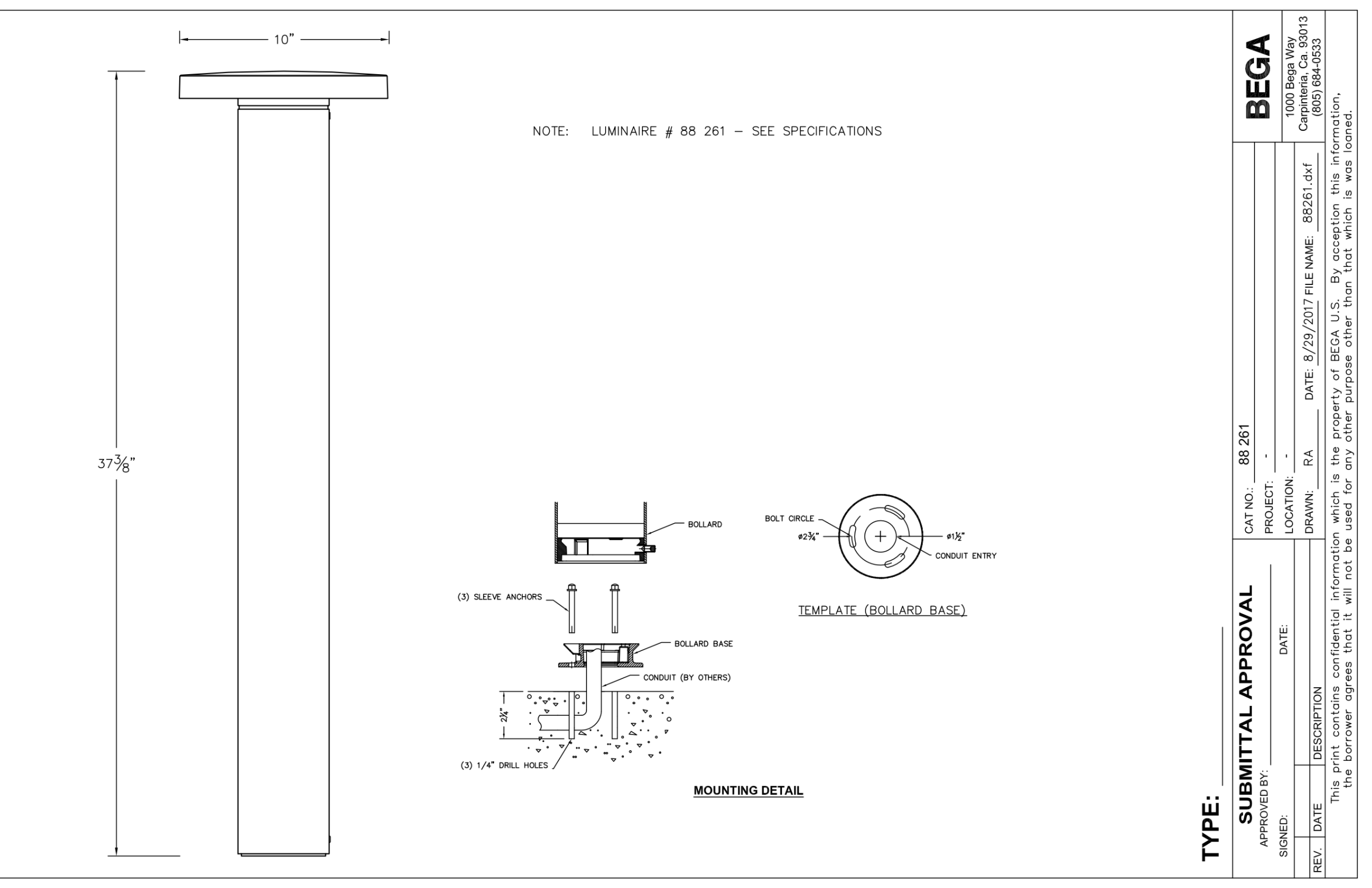
MHELOCC-Site Areas
1: 500



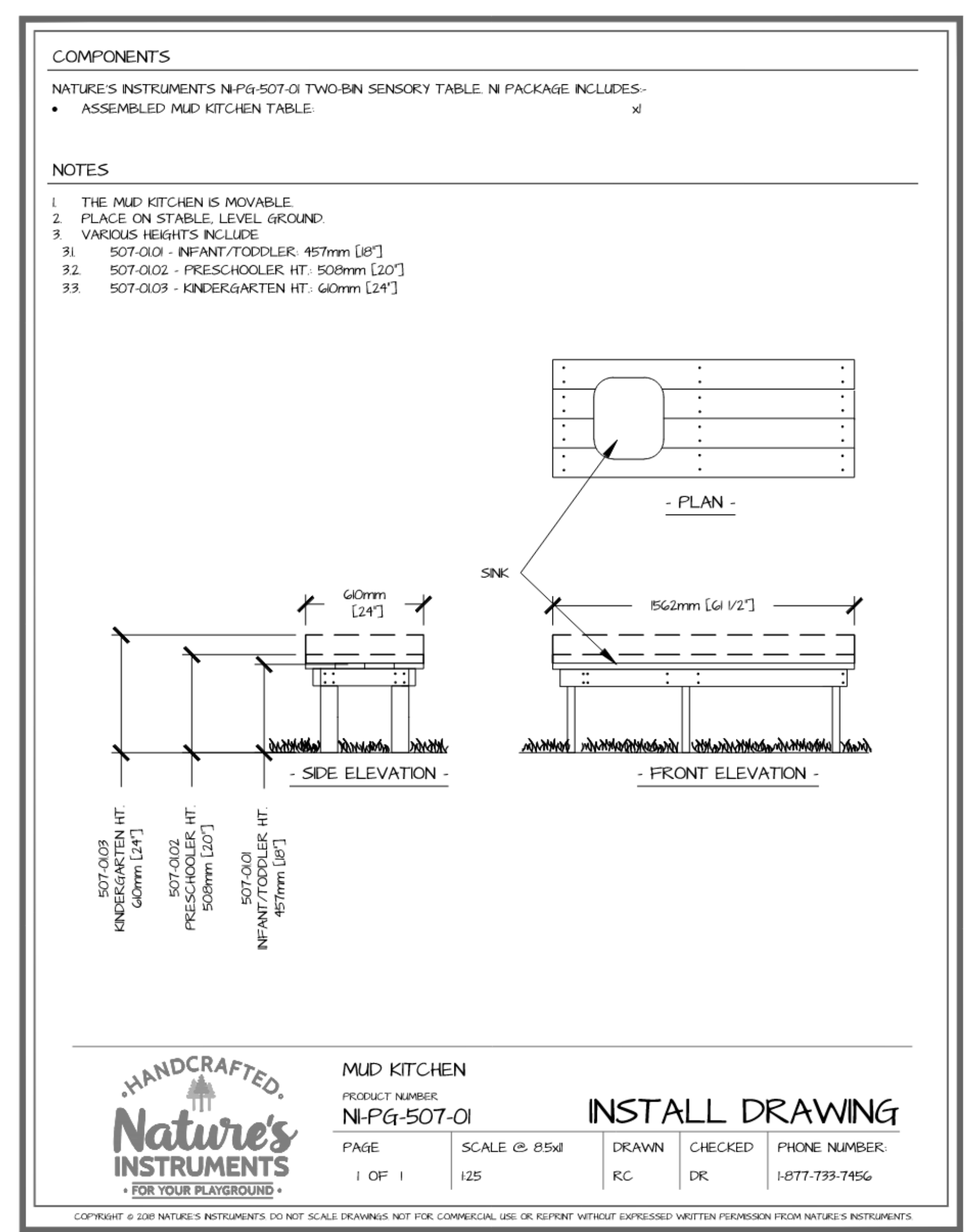
MHELOCC-Site Plan
1: 100



MHELOCC-Building Section North-South
1: 100



Site Detail - Bolland
1: 10



Site Detail - Mud Kitchen Product
1: 1

No.	Date	Description
1	22 SEP 06	Issued for Zoning Applicable Law
2	22 SEP 13	Issued for Cost of Casing
3	17 JAN 23	Re-issued for Zoning Applicable Law
4	17 MAR 23	Issued for Class C Casing
5	21 APR 23	Issued for 75% Design Review
7	20 JUL 23	Issued for 95% Design Review
11	23 FEB 24	Issued for 100% Final Design Package
12	08 JUL 24	Revised for 100% Final Design Package
13	08 JUL 24	Issued for MDE & Public Health

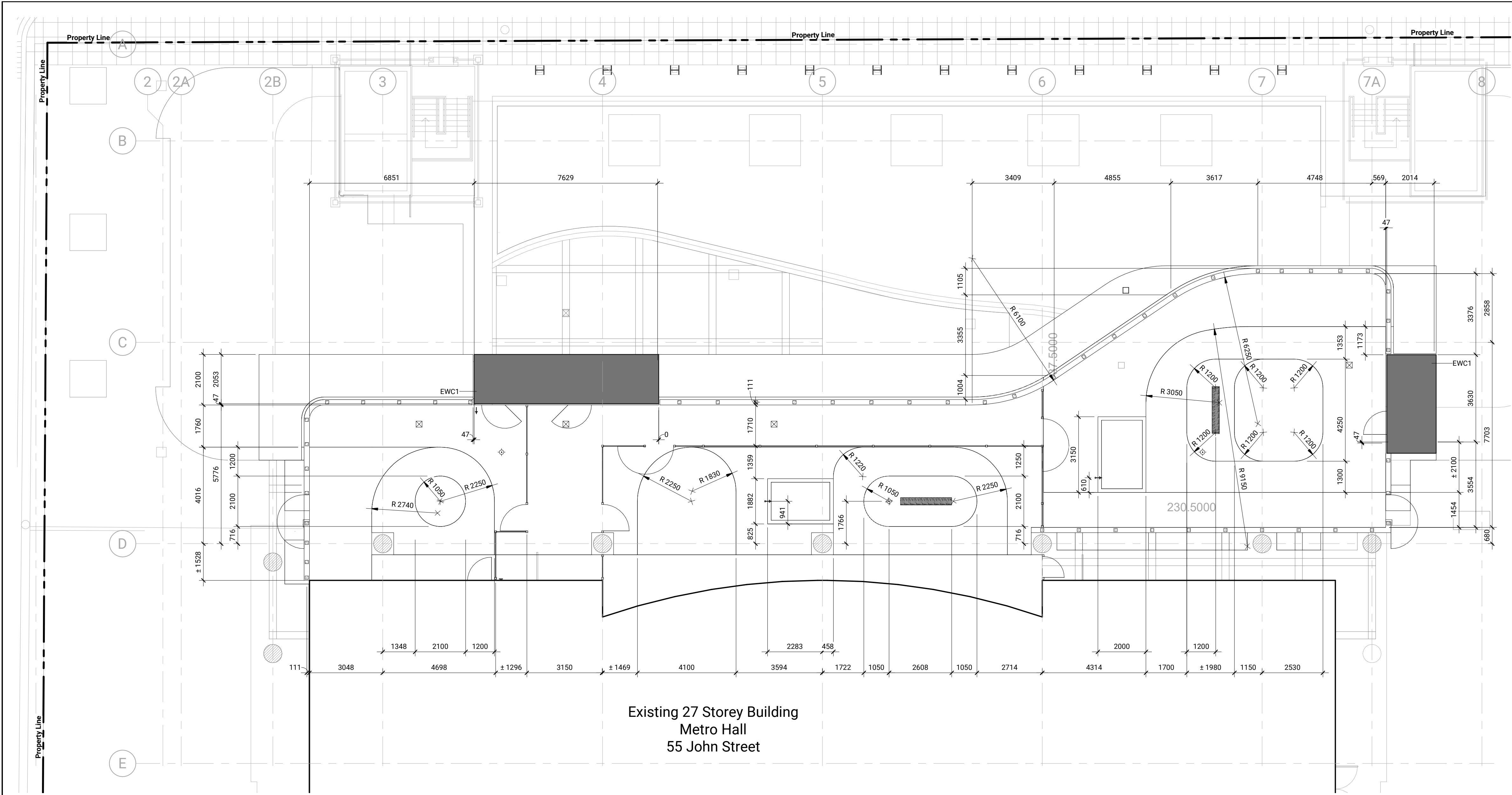
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Toronto
Metro Hall Fire Station &
Early Years Child Care Centre
Renovation

55 John Street
Toronto ON
M5V 3G5
2151019-71025
Child Care-Site Plan, Context Plan, &
Building Section
As Indicated

C-A010

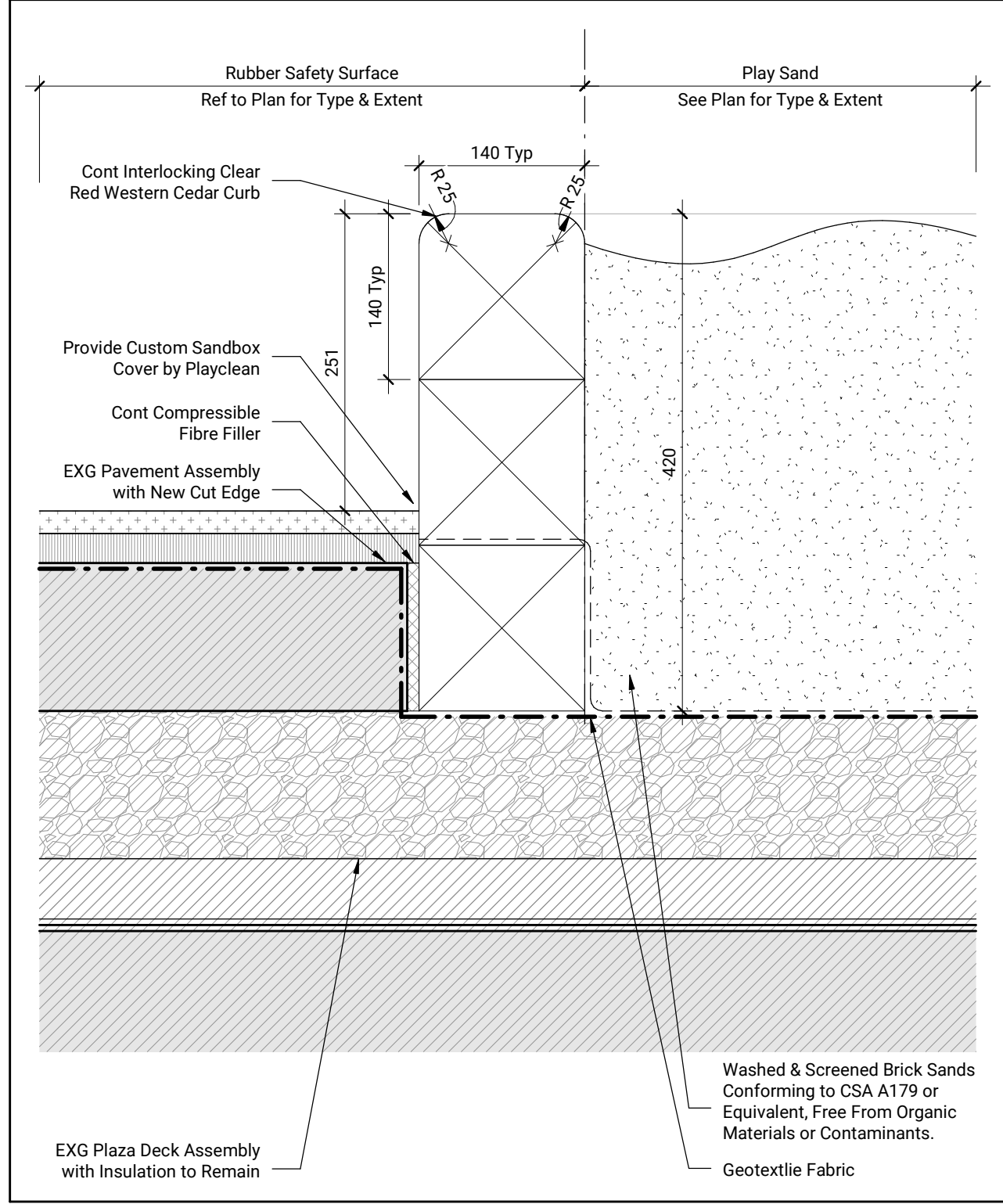


Existing 27 Storey Building
Metro Hall
55 John Street

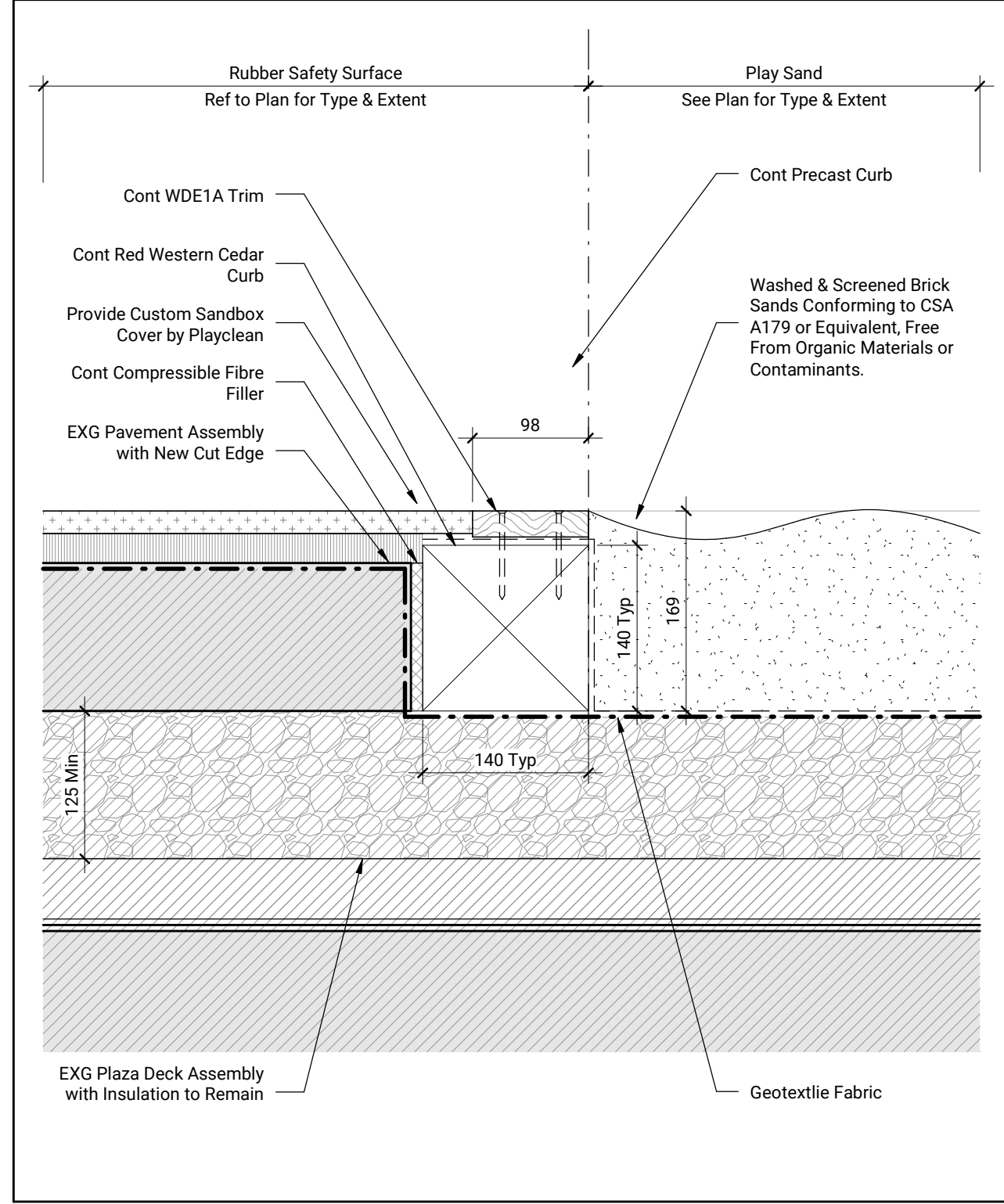
MHLCCC-Playground Layout Plan
1:100 (C-A011)

Landscape Types

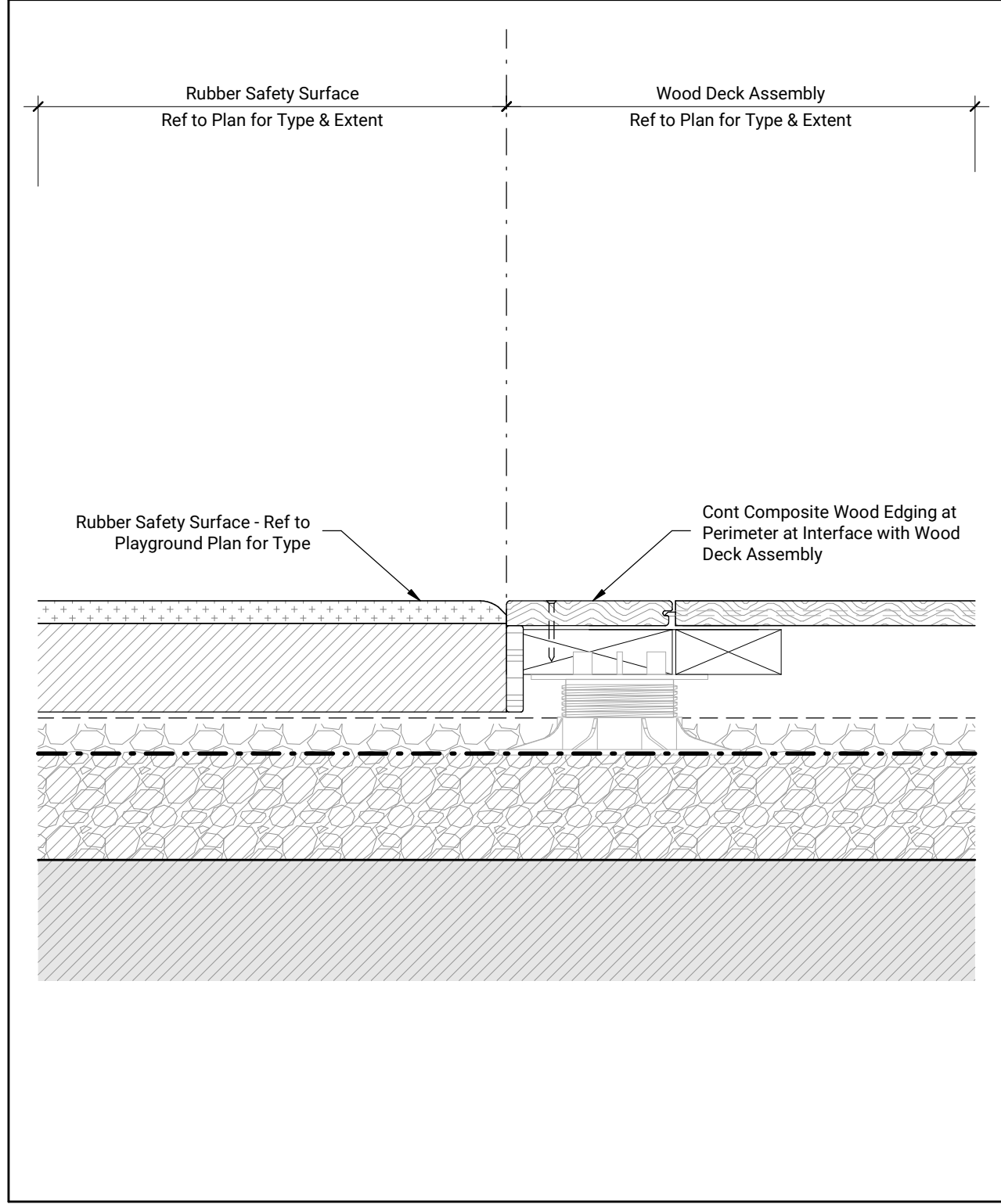
TYPE	ASSEMBLY	DESCRIPTION
WDE2		Wood Deck Assembly 21mm x 240mm Deck Boards Step-Clip Strips 38mm x 30mm Pressure-Treated Strapping at Min 457mm OC Plastic Deck Pedestals with Joist Caps Existing Gravel Substrate - Re-Level Surface
RSS#		Rubber Safety Surface 10mm Safety Surface Buffer (Depth per Manufacturer's Requirements) Filter Fabric Existing Gravel Substrate - Re-Level Surface
RSS#		Rubber Safety Surface 10mm Safety Surface Buffer (Depth per Manufacturer's Requirements) Filter Fabric Existing Gravel Substrate - Re-Level Surface
TRF		Landscape Turf Landscape Turf Backer Filter Fabric New Gravel Substrate as Required to Achieve Finished Grades Existing Gravel Substrate



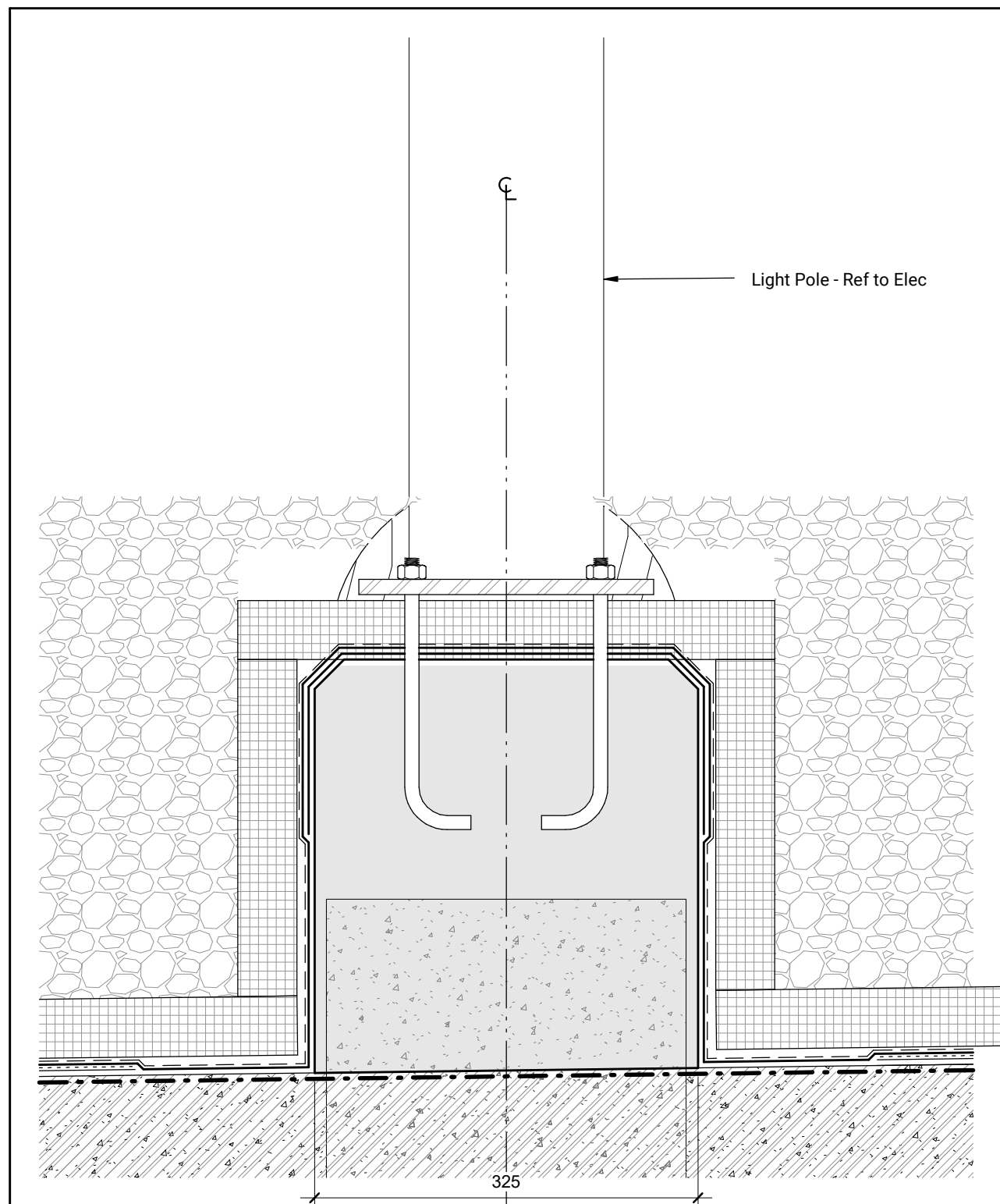
Site Detail - Play Sand at High Curb
1:5 (C-A011)



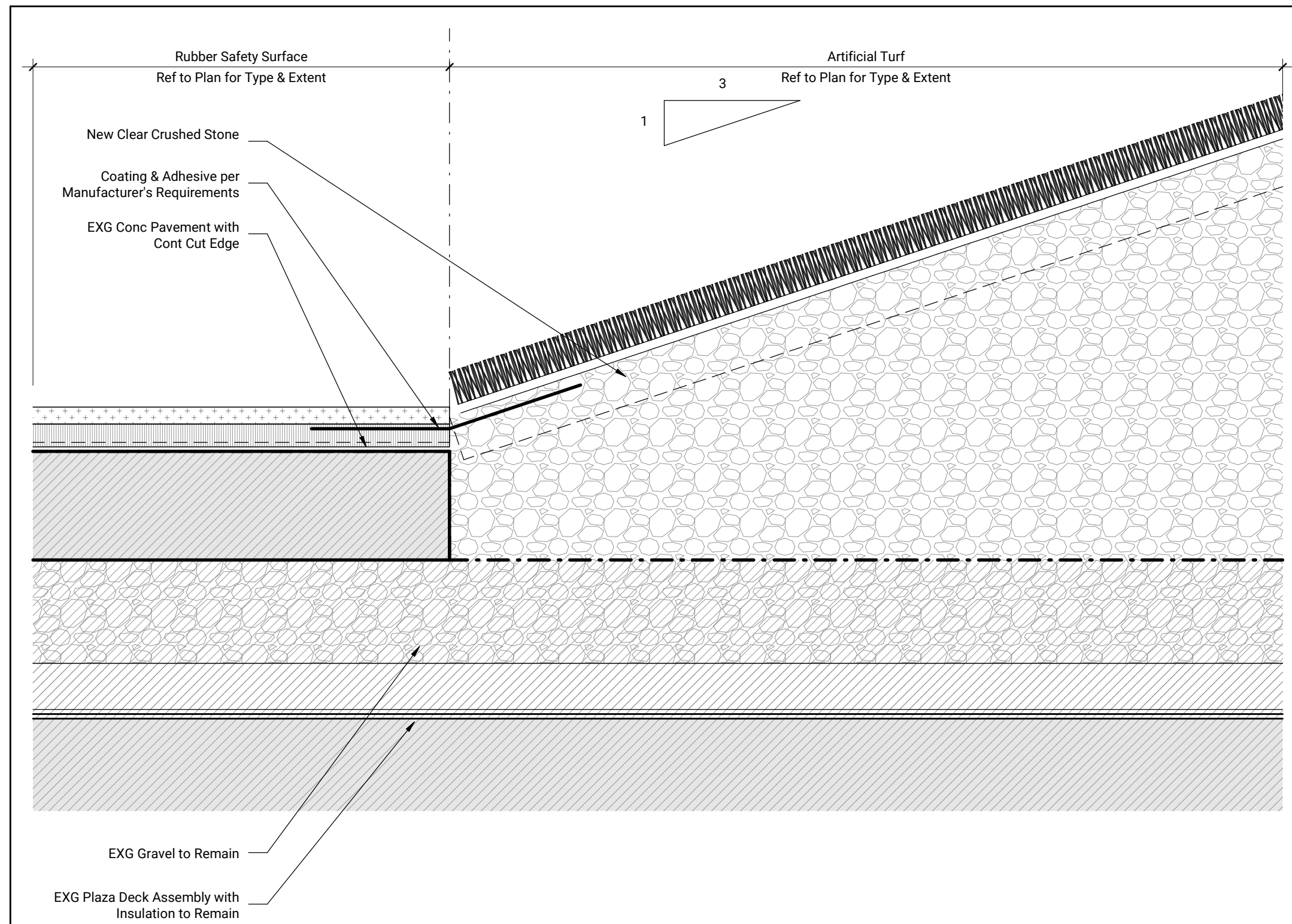
Site Detail - Play Sand at Flush Curb
1:5 (C-A011)



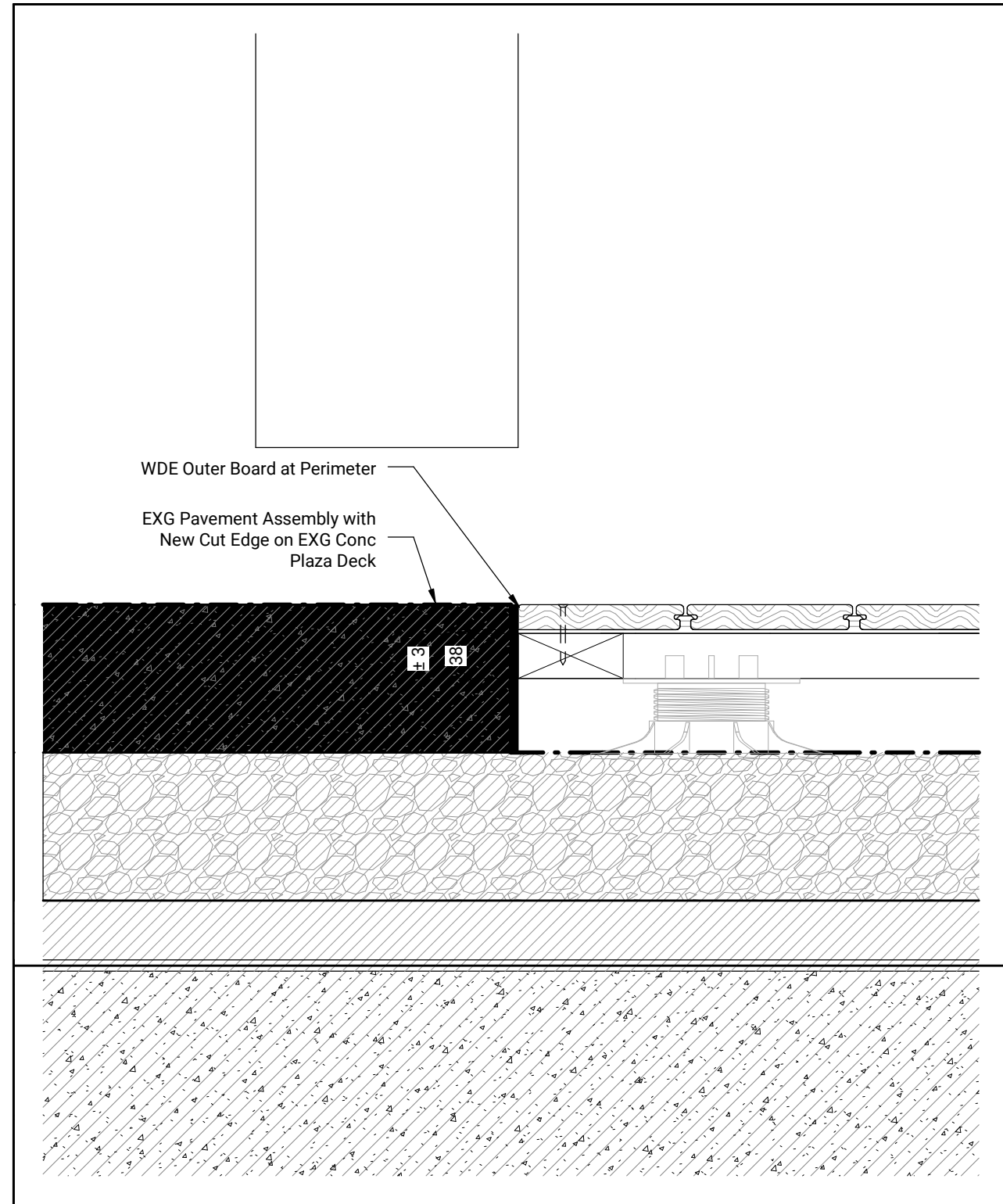
Site Detail - Safety Surfacing at Deck
1:5 (C-A011)



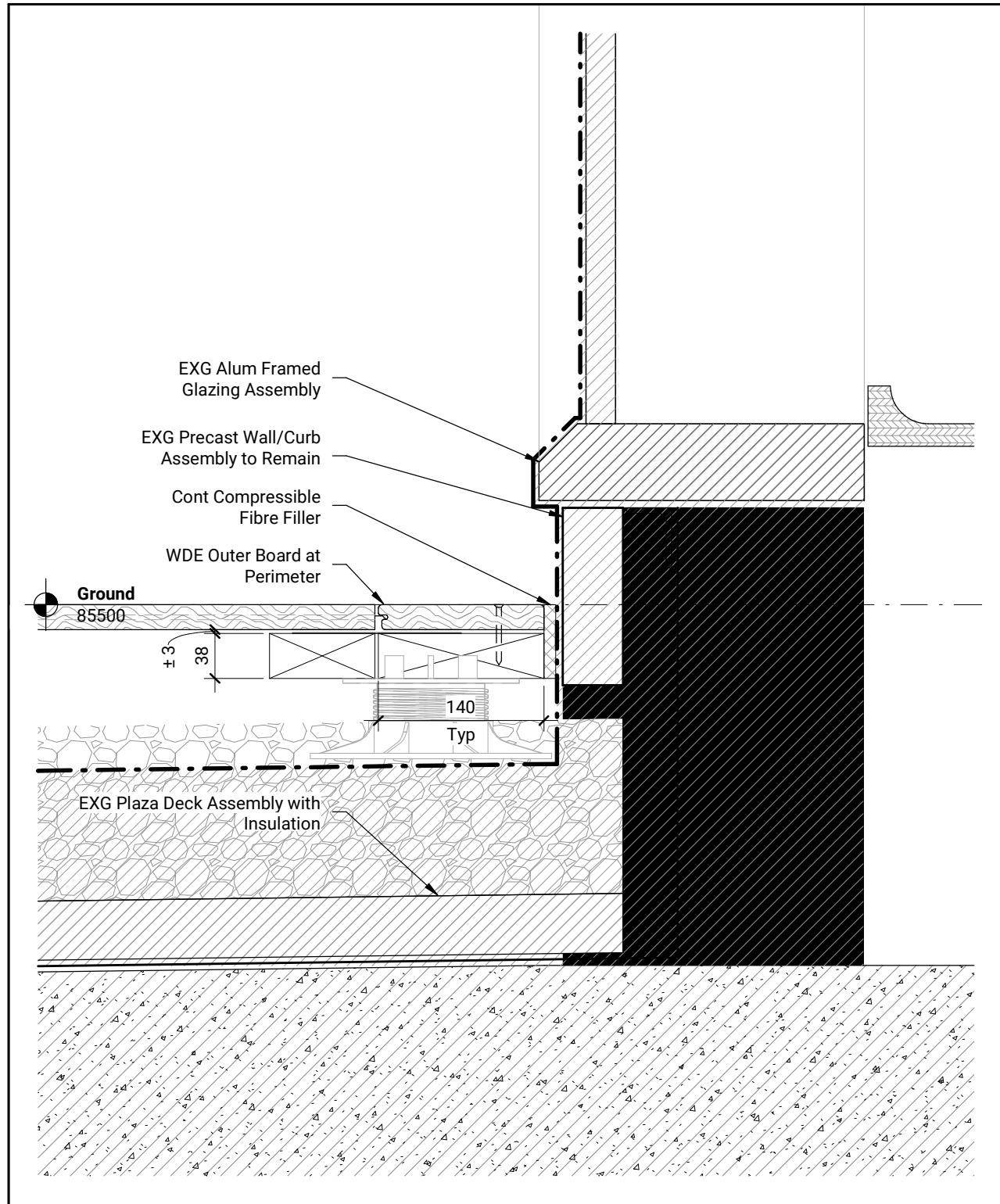
Light Pole Base
1:5 (C-A011)



Site Detail - Contoured Landscape Turf
1:5 (C-A011)



Site Detail - Deck Cross-Section
1:5 (C-A011)



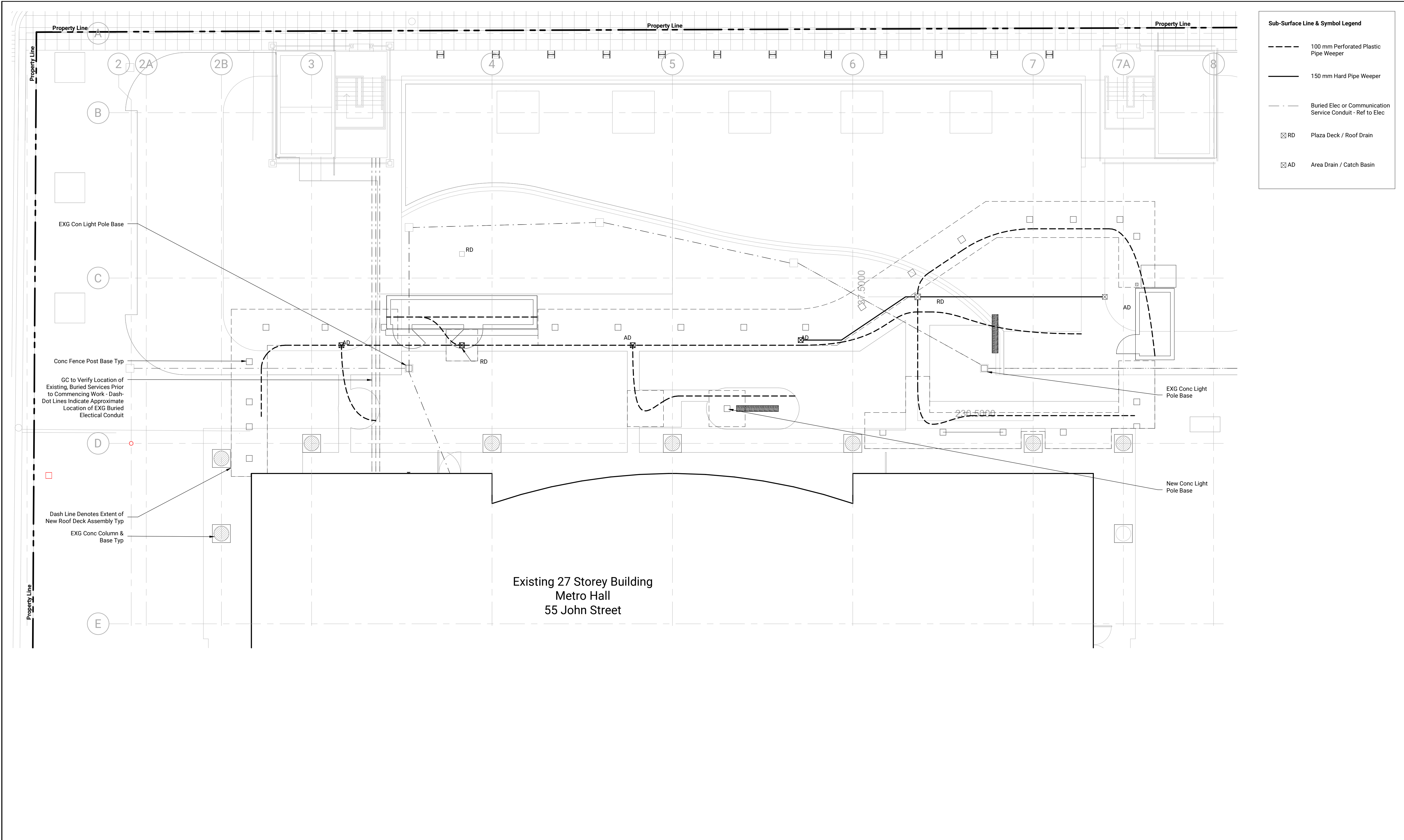
Site Detail - Deck at Wall
1:5 (C-A011)

No.	Date	Description
4	17 MAR 23	Issued for Class C Coasting
5	21 APR 23	Issued for 75% Design Review
7	20 JUL 23	Issued for 95% Design Review
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12	08 JUL 24	Revised for 100% Final Design Package

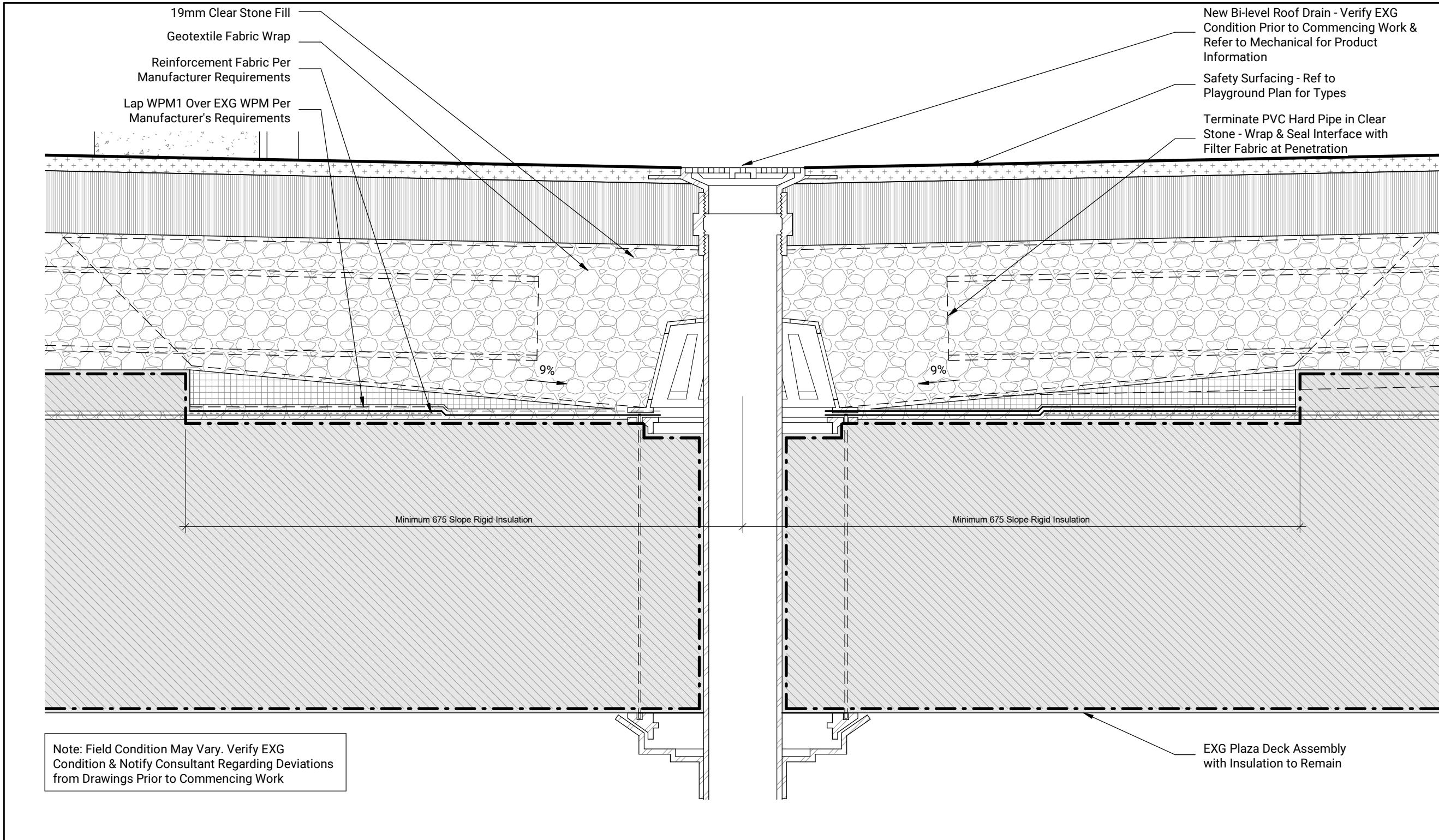
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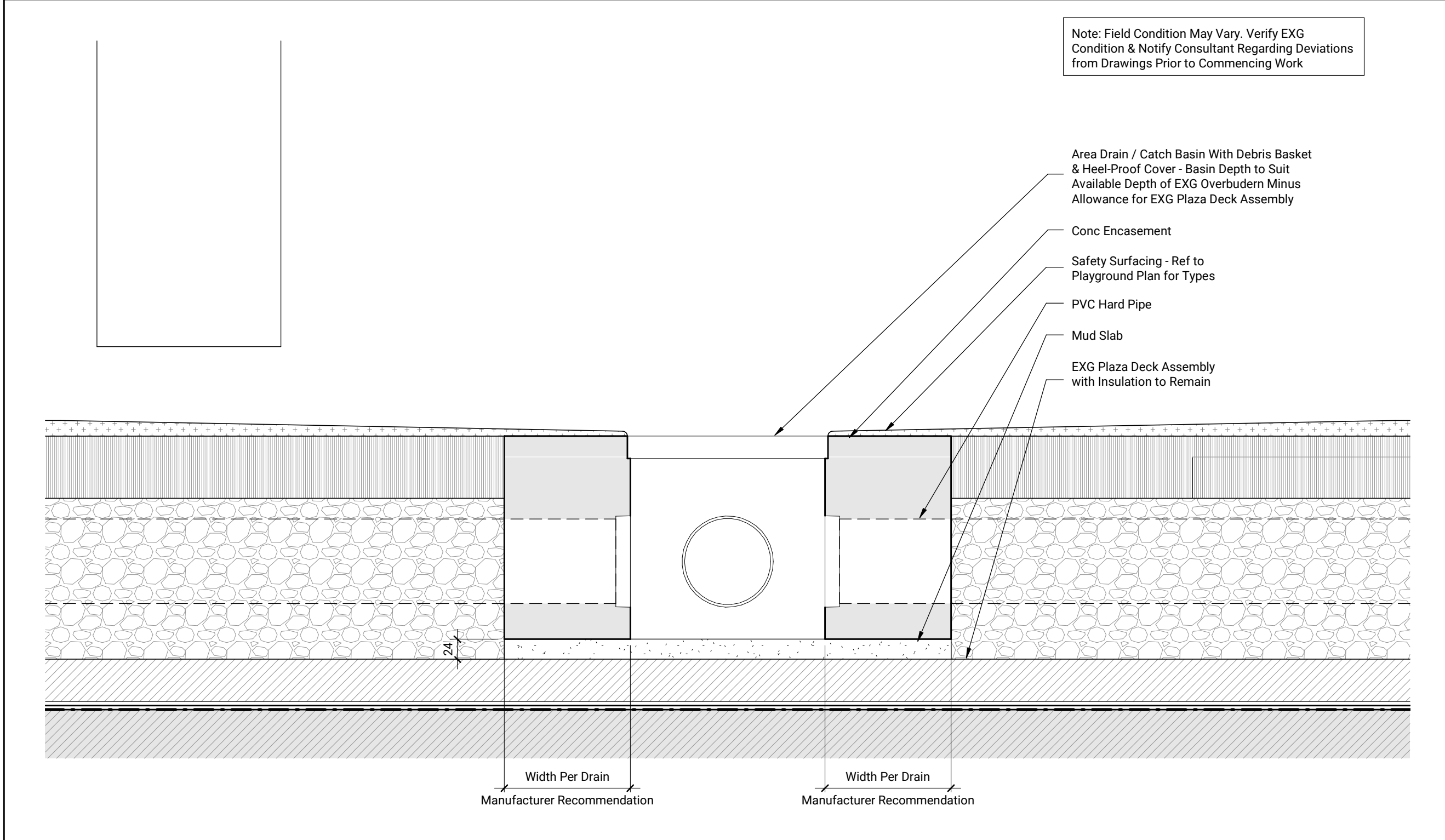
No.	Date	Description	ISSUED
7	20 JUL 23	Issued for 95% Design Review	
11	23 FEB 24	Issued for 100% Final Design Package	
12	08 JUL 24	Revised for 100% Final Design Package	



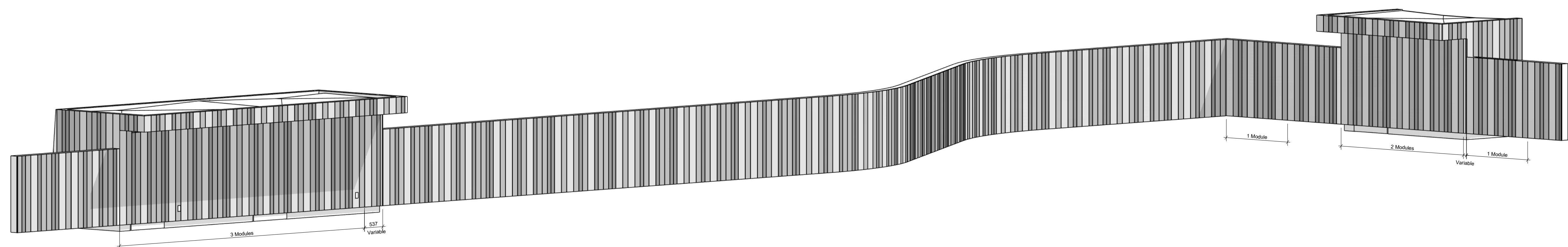
MHELCCC-Playground Sub-Surface Plan
1
1:100
C-A012



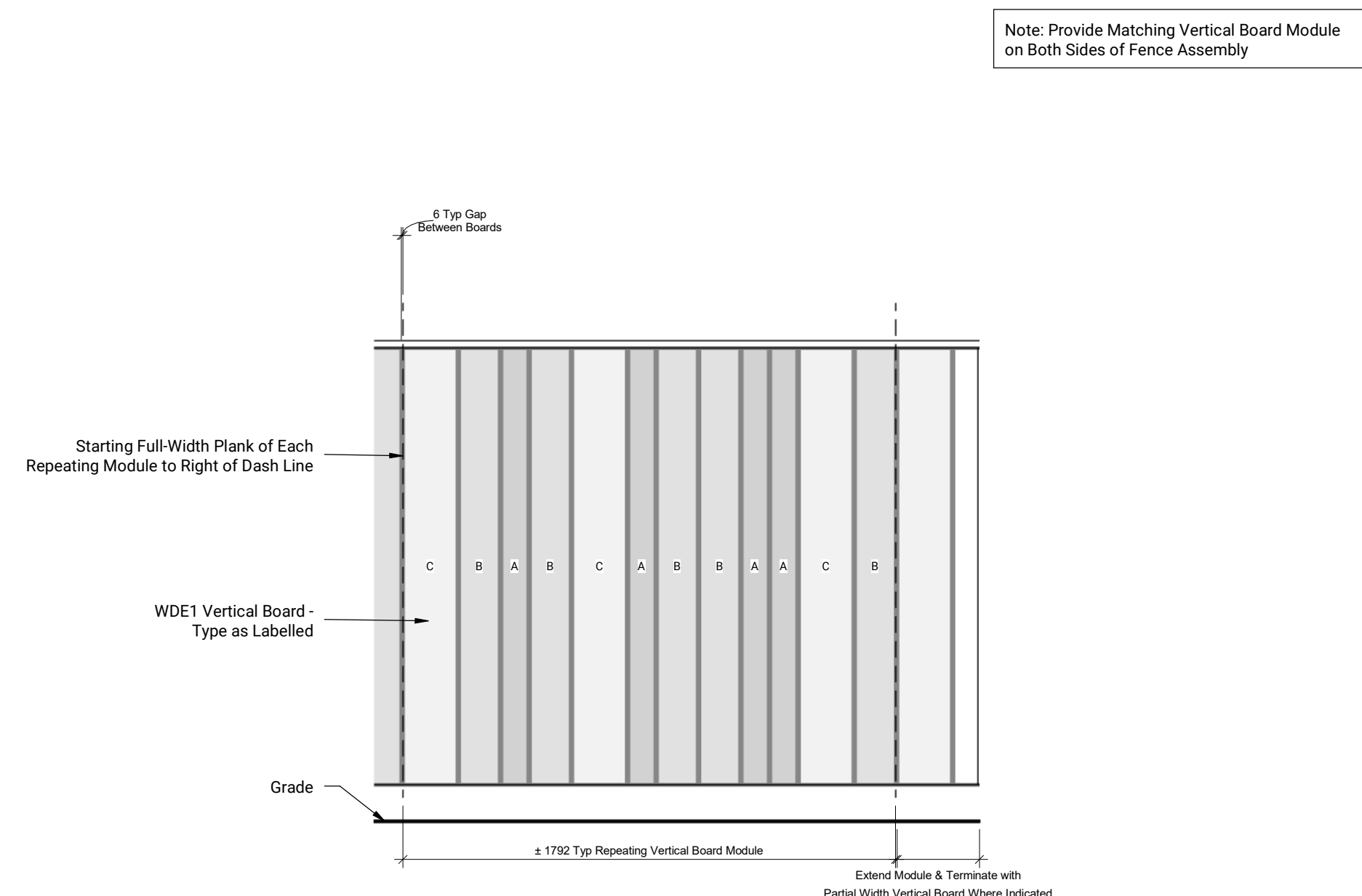
Site Detail - New Plaza Deck Roof Drain
2
1:5
C-A012



Site Detail - Area Drain / Catch Basin
3
1:5
C-A012



Isometric Illustration - Playground Fence



Elevation - Fence Vertical Boards

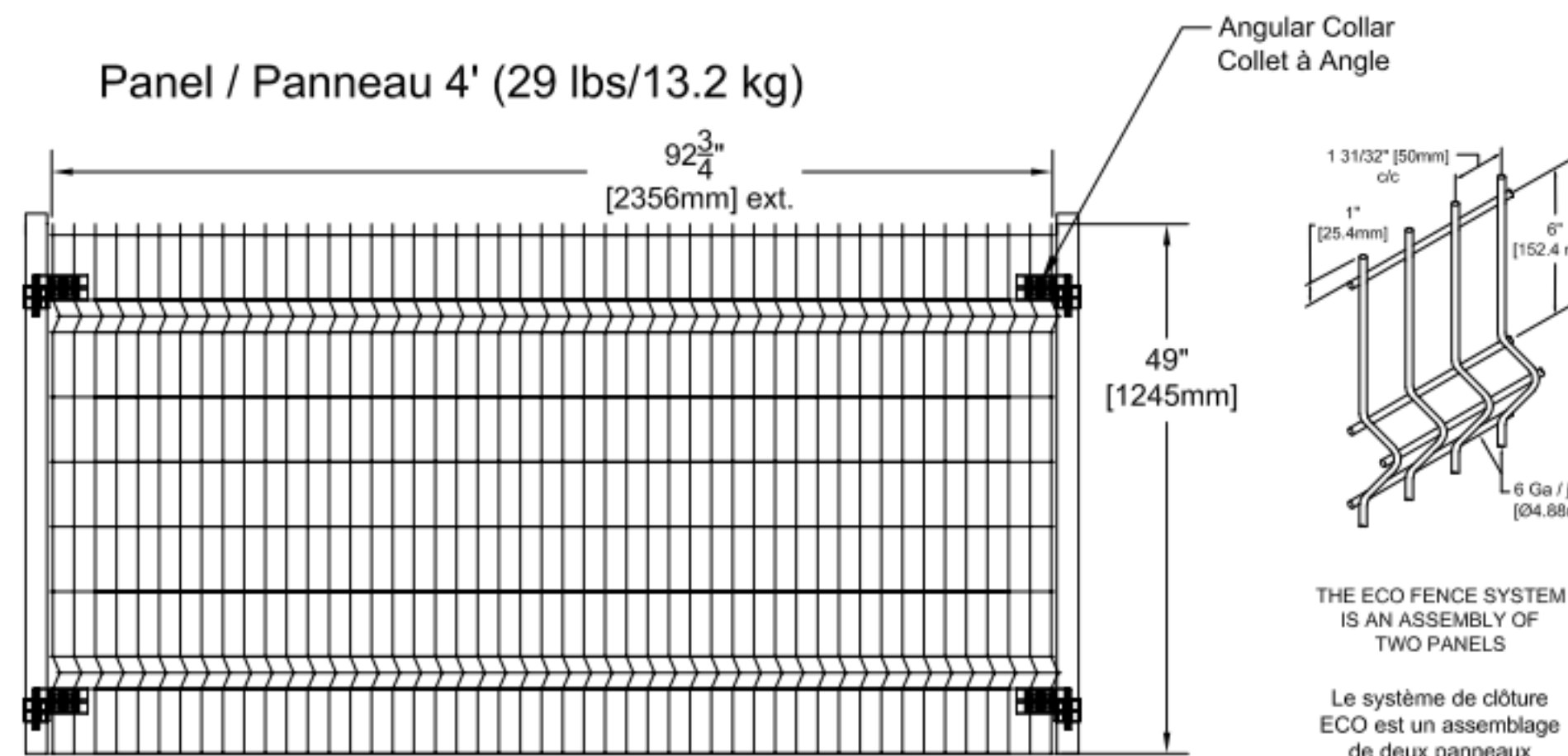
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ISSUED

OMEGA ECO PANELS MOUNTED ON SQUARE POSTS (HEIGHT 4' H)

Panneaux Omega ECO sur poteaux carrés (grandeur 4' H)

REVISION 01



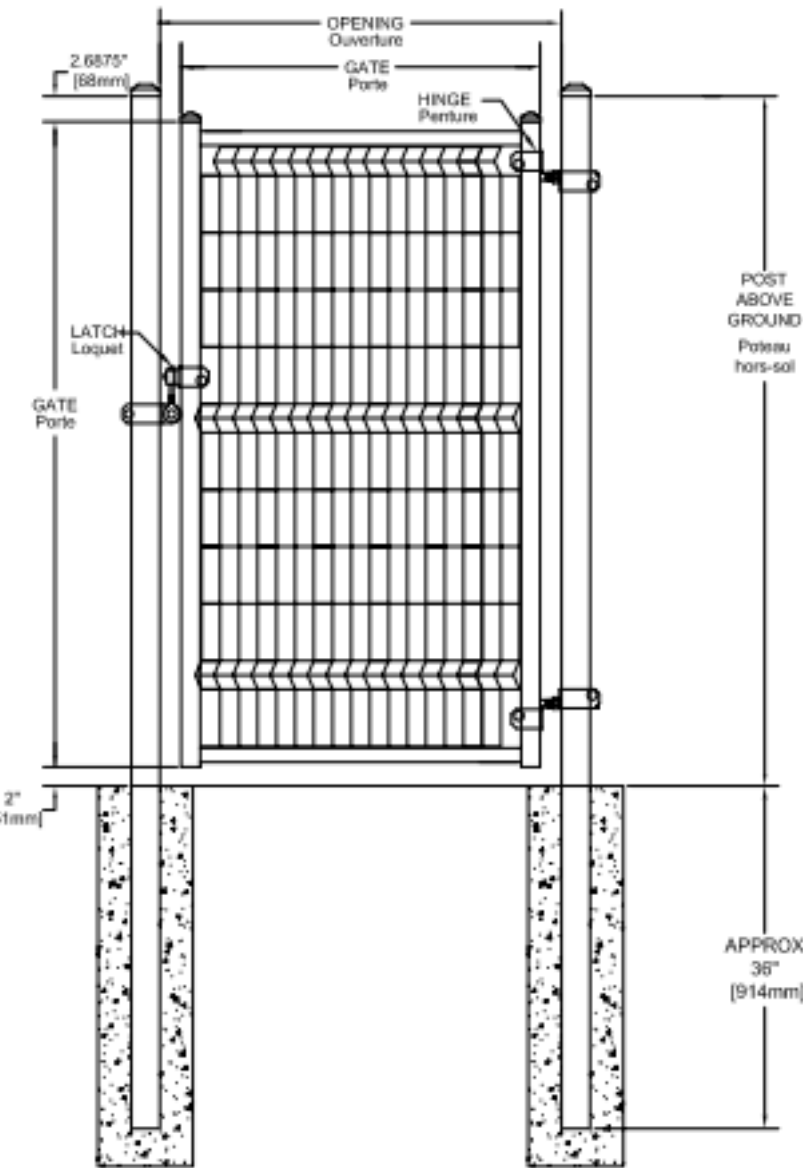
OMEGA ARCHITECTURAL SINGLE SWING GATE MODEL GPM20

Barrière Omega Architecturale à battant simple modèle GPM20

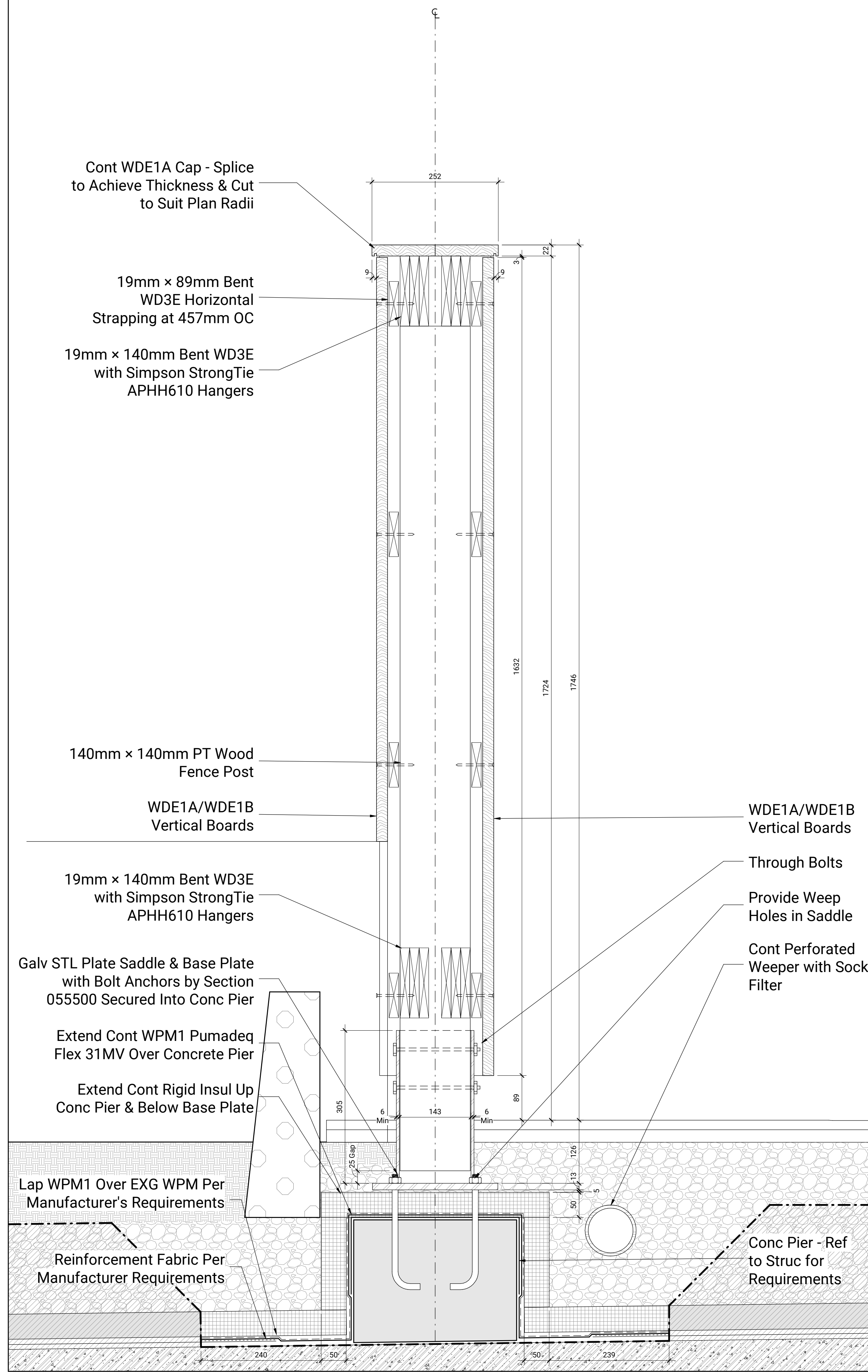
REVISION 01

GATE POST DIMENSIONS		
PANEL (H)	OPENING	POST
4', 5' & 6'	3' to 8'	3" x 3" 11 ga
8'	3' to 7'	3" x 3" 11 ga
8'	8' to 16'	4" x 4" 11 ga
9'	8' to 13'	4" x 4" 11 ga
8'	8' to 12'	4" x 4" 11 ga
8'	8' to 9'	4" x 4" 11 ga
5'	14' to 16'	6" x 6" 3/4"
8'	13' to 30'	6" x 6" 3/4"
8'	10' to 26'	6" x 6" 3/4"

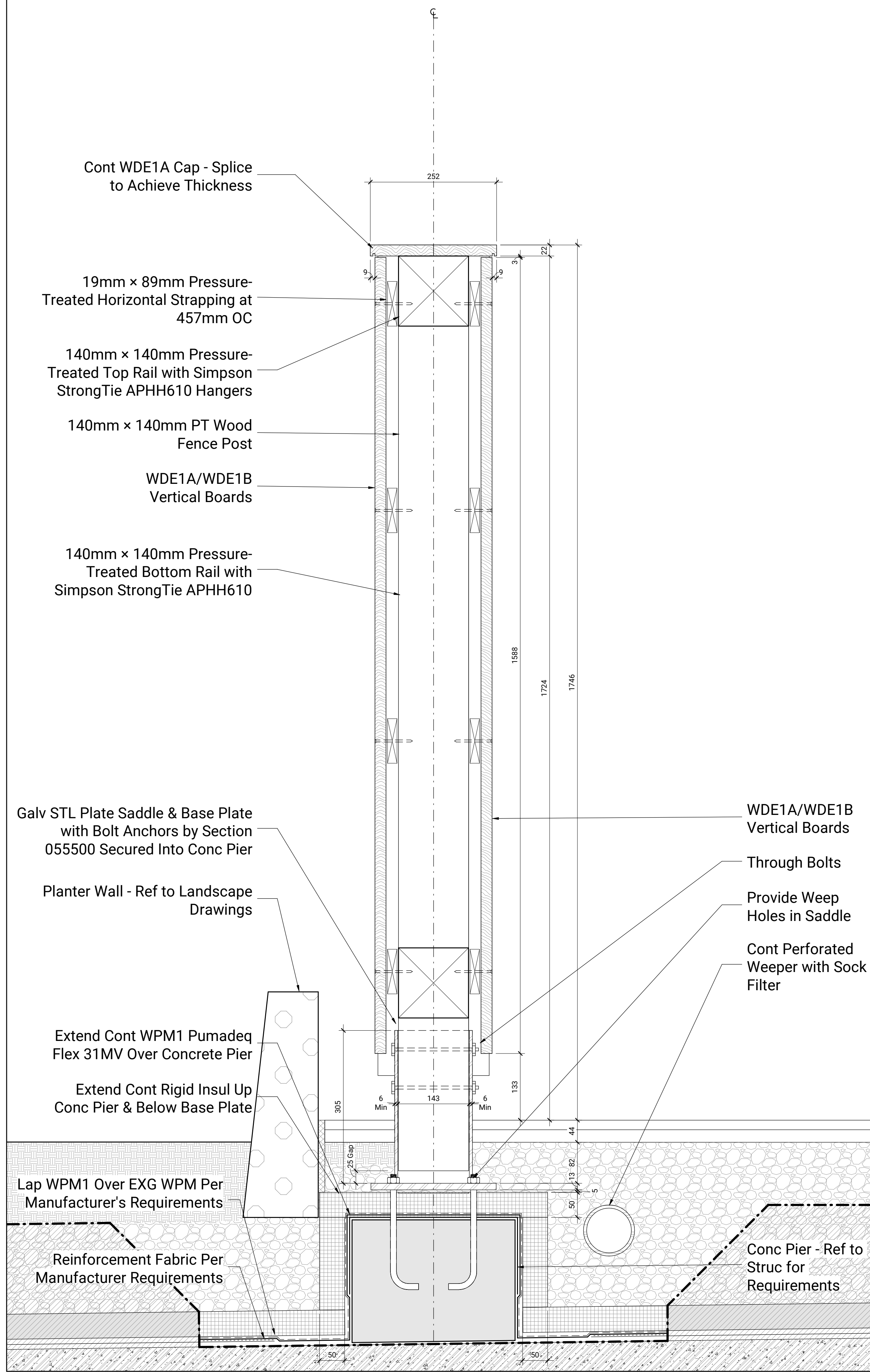
Grandeur des poteaux de porte		
Panneau (H)	Ouverture	Poteau
4', 5' & 6'	3' à 8'	3" x 3" 11 ga
8'	3' à 7'	3" x 3" 11 ga
8'	8' à 16'	4" x 4" 11 ga
9'	8' à 13'	4" x 4" 11 ga
8'	8' à 12'	4" x 4" 11 ga
8'	8' à 9'	4" x 4" 11 ga
5'	14' à 16'	6" x 6" 3/4"
8'	13' à 30'	6" x 6" 3/4"
8'	10' à 26'	6" x 6" 3/4"



Site Detail - Wire Fence Assembly



Section Detail - Wood Fence & Post Assembly at Radius



Section Detail - Wood Fence & Post Assembly

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TORONTO
Metro Hall Fire Station &
Early Years Child Care Centre
Renovation

55 John Street
Toronto ON
M5V 3G5
21018-21025

Site - Fence Details
As Indicated

C-A013



Isometric Illustration - Storage Shed



LEGEND

Fire Separations

- 0 Min Fire Rated Assembly
- 60 Min Fire Rated Assembly
- 120 Min Fire Rated Assembly
- 180 Min Fire Rated Assembly
- 240 Min Fire Rated Assembly

GENERAL NOTES

Fire Separations

- All Closures to Have Labeled Ratings (C/W Labeled Frames and Closures). Provide Fire Dampers as per Mechanical Drawings.

MHELCCC-Life Safety Plan

1: 200

Mechanical Mezzanine Life Safety Plan

1: 200

The image displays two architectural drawings related to the MHELCCC Life Safety Plan. The top drawing is a plan view showing fire separations, with a legend indicating fire-rated assemblies: 0 Min, 60 Min, 120 Min, 180 Min, and 240 Min. The bottom drawing is a plan view of the Mechanical Mezzanine Life Safety Plan, showing the layout of the mezzanine and surrounding areas. Both drawings include a scale of 1:200 and a north arrow.

LEGEND

Fire Separations

- 0 Min Fire Rated Assembly
- 60 Min Fire Rated Assembly
- 120 Min Fire Rated Assembly
- 180 Min Fire Rated Assembly
- 240 Min Fire Rated Assembly

GENERAL NOTES

Fire Separations

- All Closures to Have Labeled Ratings (C/W Labeled Frames and Closures). Provide Fire Dampers as per Mechanical Drawings.

MHELCCC-Life Safety Plan

1:200

Mechanical Mezzanine Life Safety Plan

1:200

Drawing Symbols Legend

		Building Section
		Wall Section
		Detail Section
		Callouts
		Building Elevation
		Interior Elevation
		Grids
		Levels
		Revision Bubbles & Tags
		Breakline
		Matchlin
		North
		View Title

[illegible]

FR	Fire-rated
FRR	Fire-retarded Gypsum Board Furring (Type No.)
FRTFR	Fire Retardant Treated
FS	Full-size
G	
GA	Gauge
GAL-V	Hot Dipped Galvanized
GBR	Grab Bar
GB	Gypsum Board
GBCI(4)	Gypsum Board Ceiling (Type No.)
GC	General Connector
GFRG	Glass Fibre Reinforced Gypsum
GL(4)	Glass (Type No.)
SLZ	Glazing
GDR(4)	Guardrail Type No.
H	
HB	Hose Bib
HDR(4)	Handrail
HM	Hollow Metal
HMD(4)	Hollow Metal Door Type
HR	Horizontal
HP	High Point
HBS	Hour
HSS	Hollow Steel Section
HT	Height
HVAC	Heating Ventilating and Air Conditioning
I	
ID	Inside Diameter
IFP	Intumescent Fireproofing
INT	Interior
INSI(4)	Insulation Type (4)
INVT	Invert
IVT	Intravenous Track
J	
JBR	Jointer
JT	Joint
K	
KG	Kilogram
KD	Knockout
L	
Lab	Laboratory
Lam	Laminated
Lav	Lavatory
Lino	Linoleum
LP	Low Point
M	
Max	Maximum
Mech	Mechanical
Mezz	Mezzanine

Ceiling Types

TYPE	FRR	RSI	ASSEMBLY
ACT1	-	-	
APN1	-	-	
GBC1	-	-	

TB	Towel Bar
TBD	Tack Board
Tel	Telephone
Ter	Terrazzo
Text(F)	Textile (Type No.)
Thrd(F)	Threshold (Type No.)
TL(F)	Tile (Type No.)
TOC	Top of Curb
TCCS	Top of Concrete Slab
TOL	Top of Ledger
TOS	Top of Steel
TOS HP	Top of Steel High Point
TOS LP	Top of Steel Low Point
TOW	Top of Wall
TP	Token Partition
TPH	Token Paper Holder
TR(F)	Floor Transition Type No.
TRF	Landscape Turf
TRF	Traffic Topping (Type No.)
TF	Textured Finish
Typ	Typical
U	Undercut
UC	Underside
U/S	Underside
UPS	Uninterruptible Power Supply
UH	Unit Heater
V	Vinyl
Vet	Vertical
Vest	Vestibule
VIF	Verify in Field
VWC(F)	Vinyl Wall Covering
W	Width
W	Web
WA(F)	Washroom Accessory (Type No.)
WB	Whiteboard
WC	Water Closet
WD	Wood Frame
WD(F)	Wood Door (Type No.)
WD(F)U	Hardwood (Type No.)
WDF(L)	Wood Flooring (Type No.)
WDF(F)	Wood Panel (Type No.)
WDXU(F)	Wood Veneer (Type No.)
WDU	Waste Disposal Unit

DESCRIPTION

Acoustic Ceiling Tile in Tile Suspension System

Acoustic Ceiling Tile (A)
T-Bar Suspension System

Acoustic Panel Ceiling

T-Bar Suspension System
610mm x 2440mm Acoustic Panel in Swing Down Configuration

Suspended Gypsum Board Ceiling

38mm Suspended Steel Channels at Max 600mm OC
22mm Steel Furring Channel at Max 400mm OC
13mm Gypsum Board*

*Mould & Moisture Resistant in Washrooms, Servery, & Laundry Room

[illegible]

GENERAL NOTES

1. All Doors Scheduled to Receive Magnetic Hold Open or Automatic Door Operators Shall Have Frames Pre-drilled to Take Electrical Wiring.

2. All Glazing Stops to Be Located on Room Side of Frame.
3. Refer to Floor Plans for Configuration of Door & Screen Conditions.
4. Door Sizes are to be Frame Rebate Sizes Less Clearances.
5. Refer to Door Hardware Schedule for Location of Kickplates and Door Protectors.
6. Provide Hinge Side Finger Guards.
7. Verify All Dimensions, Including (But Not Limited to) Rough Opening Sizes for Frames & Doors Prior to Commencing Work.

9. Refer Also to Floor Plan for Door Handing, Finish Hardware Schedule, Life Safety Drawings, RCP, & Electrical Drawings

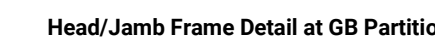
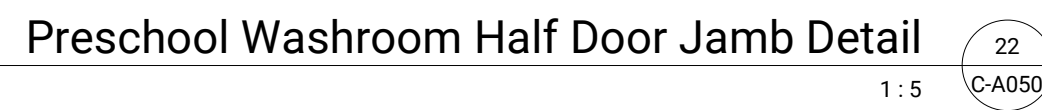
10. Provide Cont Acoustic Door Seals & Automatic Door Bottom.
11. Ref to the Specifications, the Finish Hardware Schedule by Trillium Architectural Products, and to the Relevant Drawings by the Electrical Consultants and Other Related Sub-Disciplines for Work Related to Doors, Frame Assembly, & Associated Hardware.
12. Provide Video Intercom System At This Door Opening. Ref to Relevant Drawings by the Electrical Consultants and Related Sub-Disciplines for Additional Requirements for Interference Requirements with Doors, Frame Assemblies, & Associated Hardware.
13. Provide Frameless Half-Height Door.
14. Section 12 24 13 to Provide Roller Window Shades WSCI & Side Channels.

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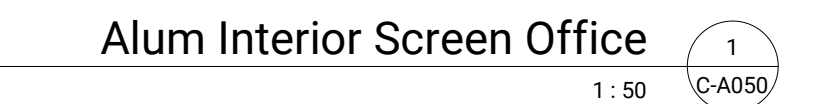
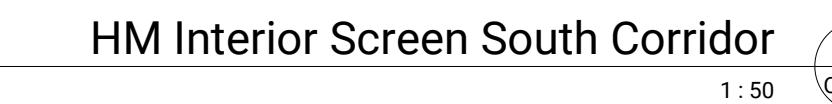
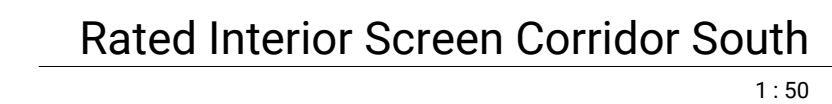
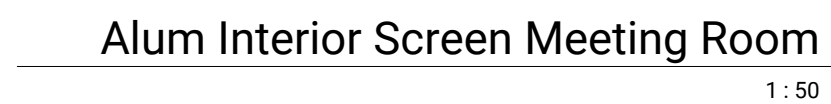
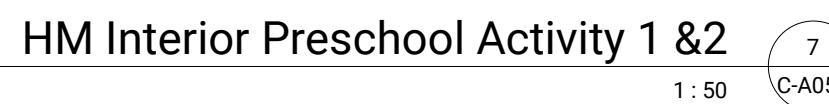
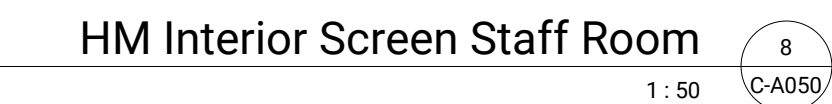
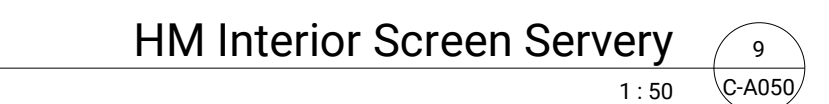
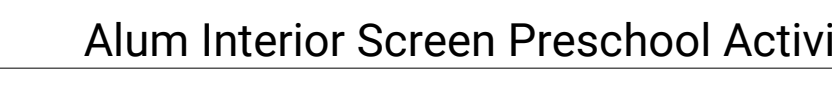
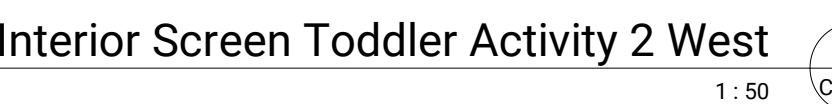
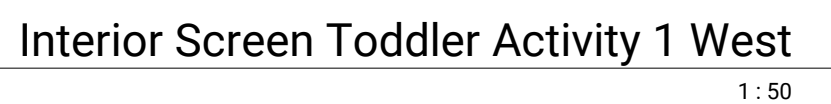
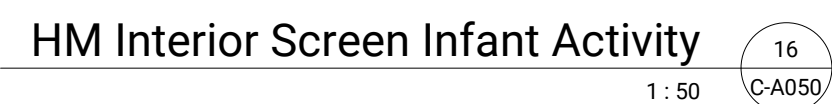
ISSUED



Aluminum Frame Profiles



Hollow Metal Frame Profiles



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Toronto
Metro Hall Fire Station &
Early Years Child Care Centre
Renovation

Doors and Screens Schedule
As indicated

C-A050

GENERAL NOTES
Plan Symbols

- RD
FD
AD
HB
Denotes Roof Drain
Denotes Floor Drain
Denotes Area Drain
Denotes Hose Bib Location
Denotes Proposed Slatness Connection Location
Convex Mirror
EXG Depression or Slab Penetration with Conc Infill - Ref to General Note 7
Line Delineates Construction Fencing/Hoarding

GENERAL NOTES

Plans

1. Refer to Building Elements Schedule for Exterior Wall, Partition, Roof, Ceiling, and Soffit Types
2. Refer to Mechanical and Electrical Drawings for Additional Requirement
3. All Locations Where Mech. Ducts Interfere with Full Height Construction of Interior Partitions, Offset Partition Above Ceiling and Brace as Required. Maintain Fire Separation/Board Rating of Partition. Offsetting of Partitions Will Only Be Permitted Where Checkwork Cannot be Positioned
4. All Dimensions are Taken to Face of Masonry or Concrete at Masonry and Concrete Walls and Partitions. At Steel Stud Partitions, Dimensions are Taken to Face of Gypsum Board, Unless Otherwise Noted
5. Increase Thickness of Walls or Full Out Wall Thickness as Required to Accommodate Mechanical and Electrical Panels and Services. Maintain Fire Separation Around Back of Panels Where Applicable
6. For Dimensions of Concrete Refer to Slab Edge Drawings
7. Provide Conc Infill at Slab Depression to Achieve Flush Condition at Floor UNO. Drawing Delineates Rough Location & Extent. Verify Actual Location & Extent in Field Prior to Commencing Work. Make Good & Prepare Surface to Receive Floor Finishes. Ref Also To Slab
8. Extend Partition Assembly Down to Bottom of EXG Radiator Trough Tray at Intersections with EXG Alum Framed Glazing

No.	Date	Description
1	22 SEP 06	Issued for Zoning Applicable Law
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4	17 MAR 23	Issued for Class C Costing
5	21 APR 23	Issued for 75% Design Review
7	20 JUL 23	Issued for 95% Design Review
11	23 FEB 24	Issued for 100% Final Design Package
12	08 JUL 24	Revised for 100% Final Design Package
13	08 JUL 24	Issued for MDE & Public Health

ISSUED

NOT FOR
CONSTRUCTION

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Renovation

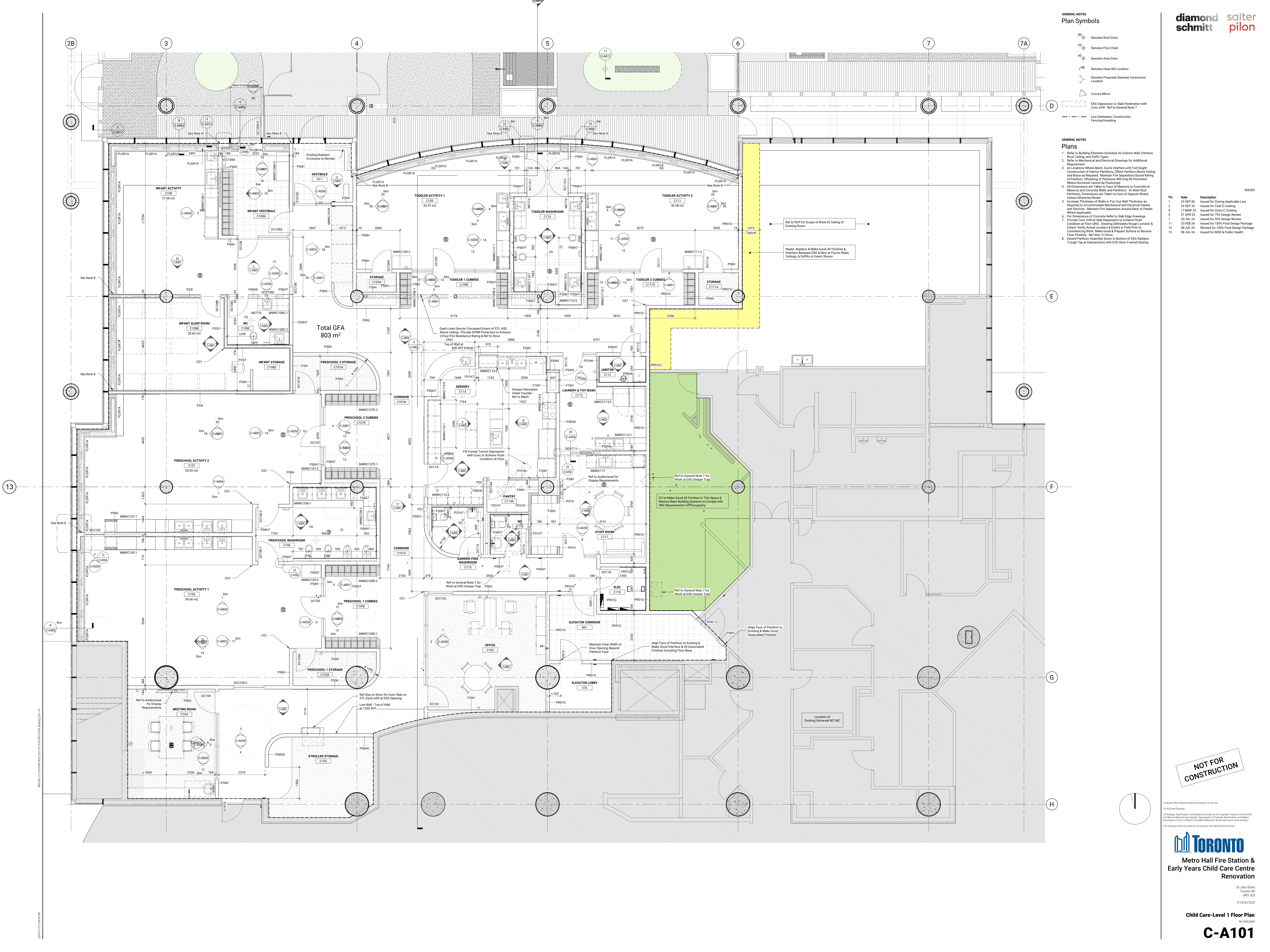
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M5V 3C5

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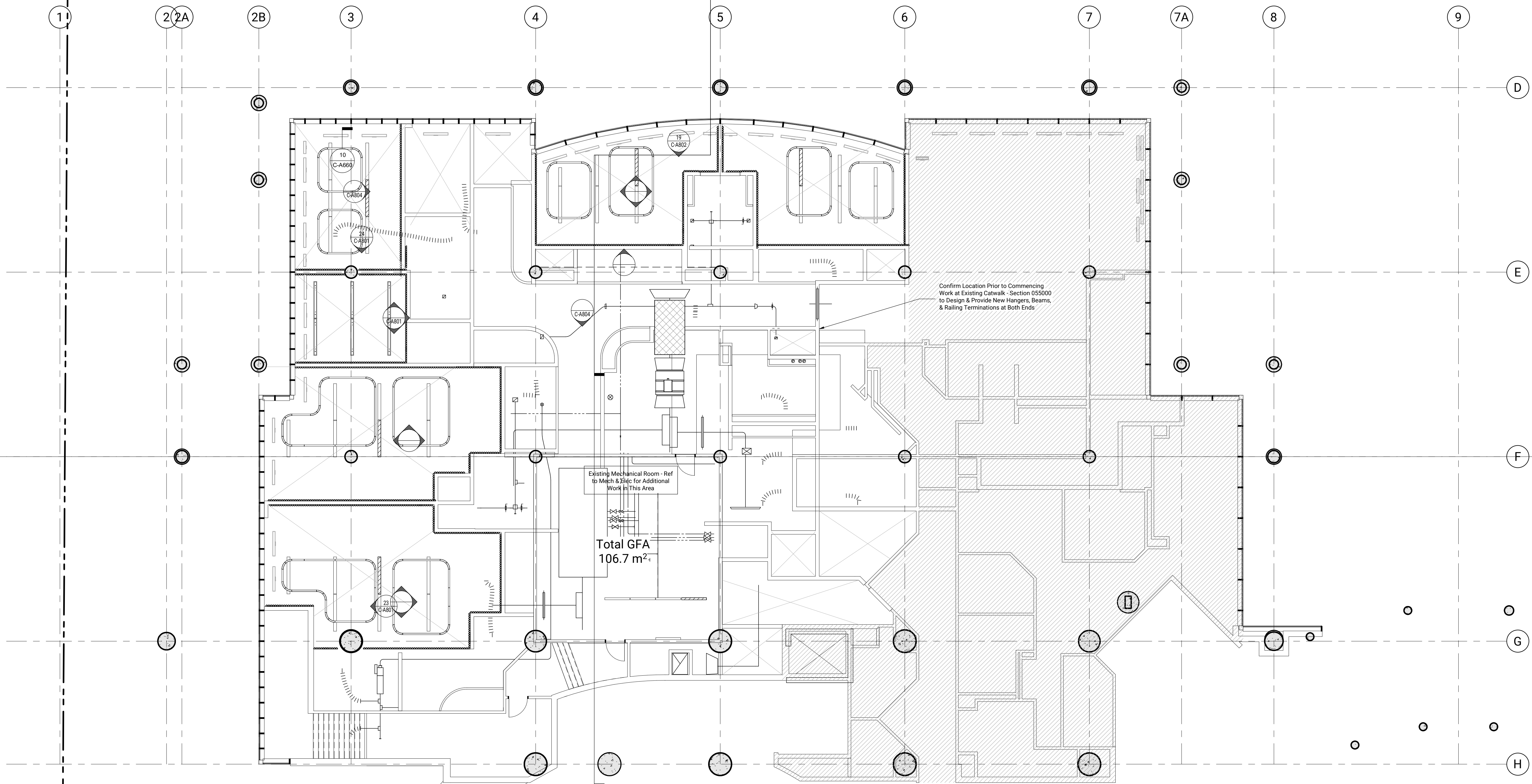
Child Care-Level 1 Floor Plan

As Indicated

C-A101



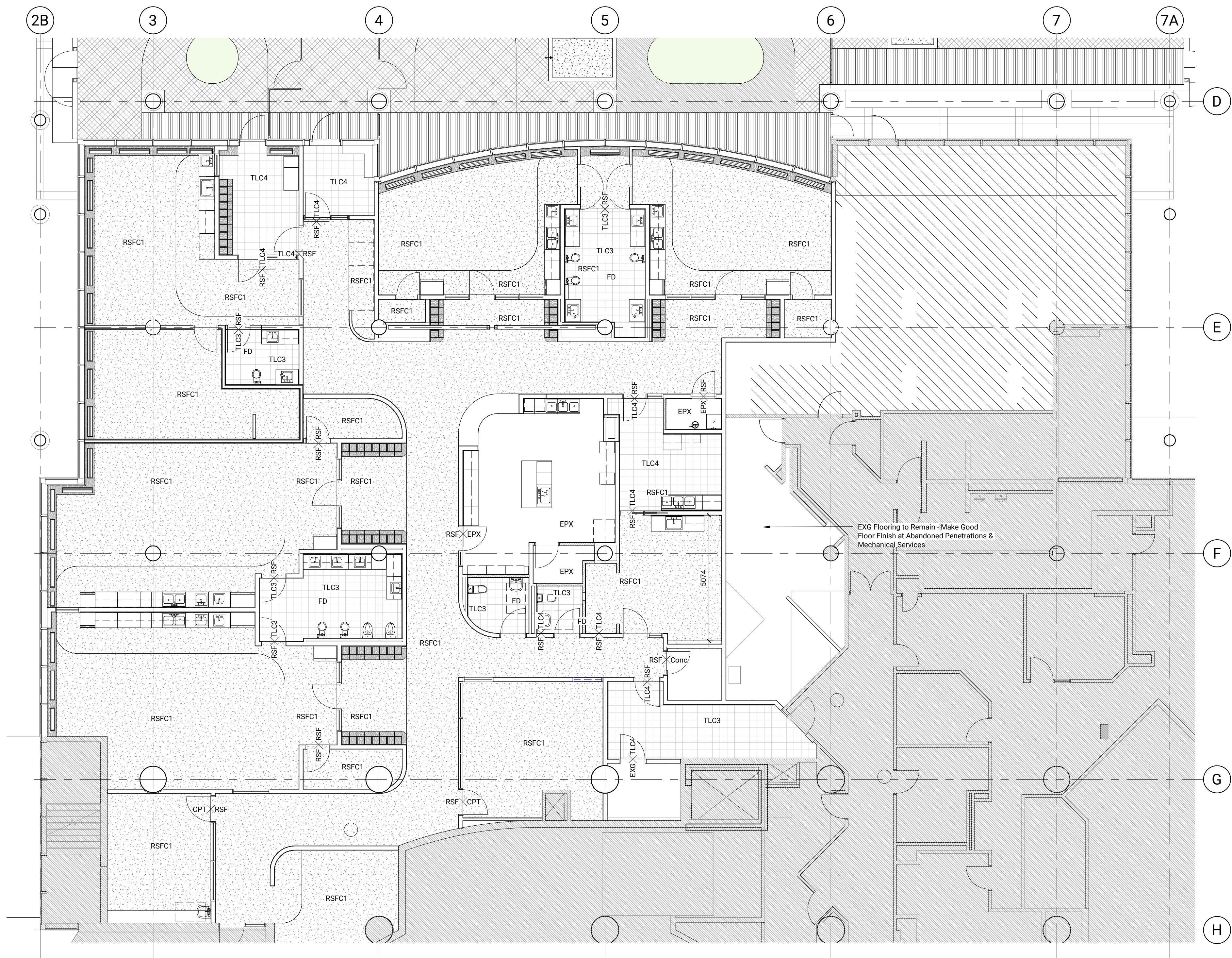
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Child Care-Mezzanine Plan

1:100

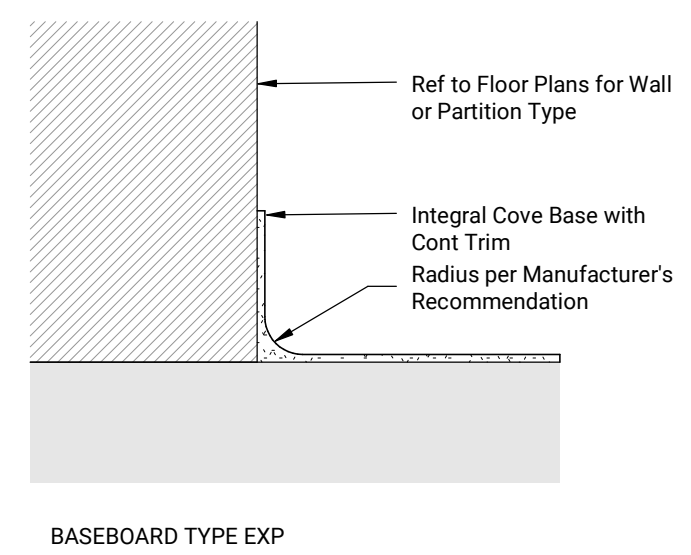
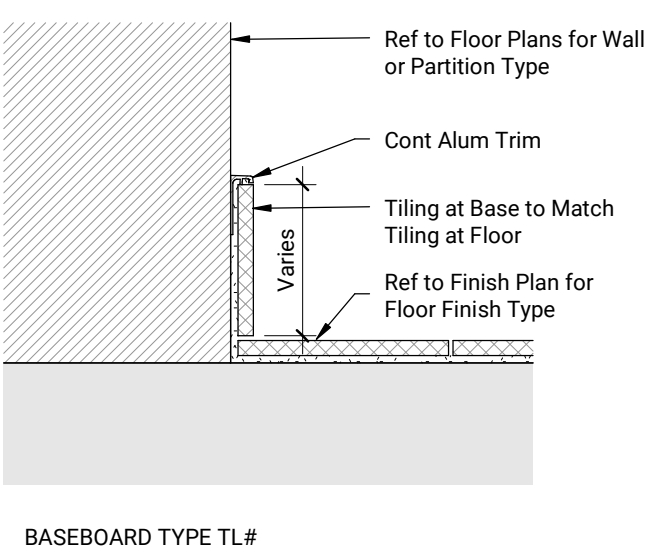
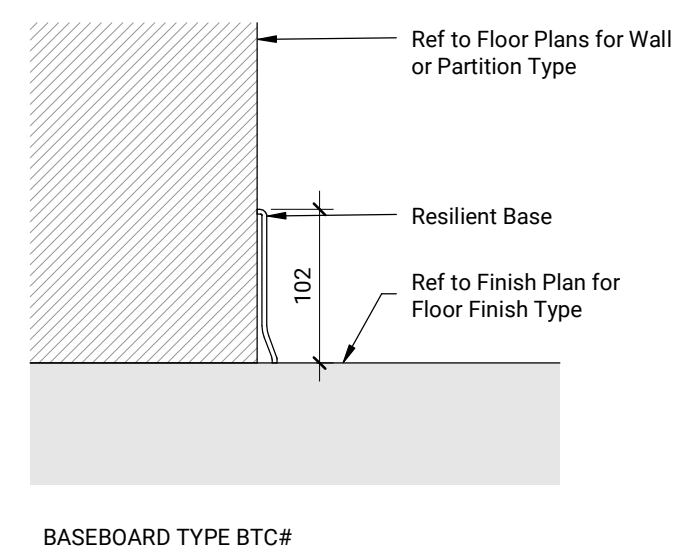
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C-A102



Child Care-Finishes Plan

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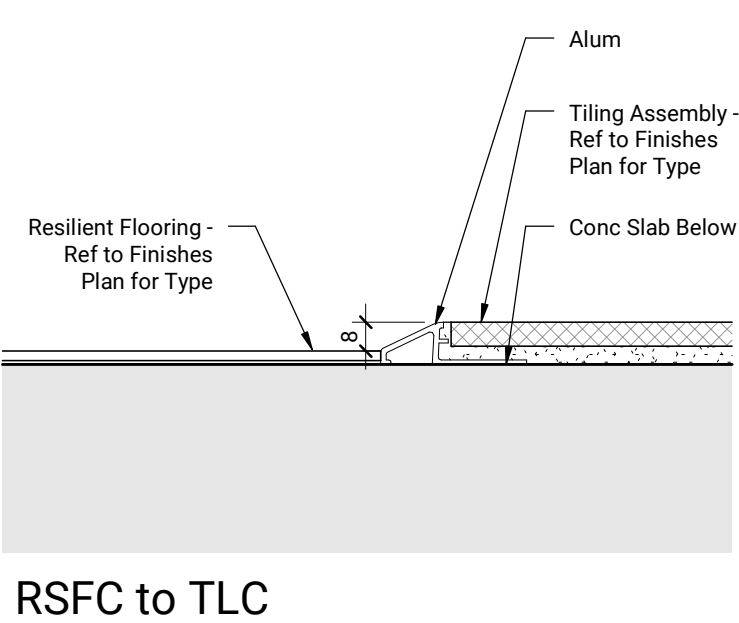
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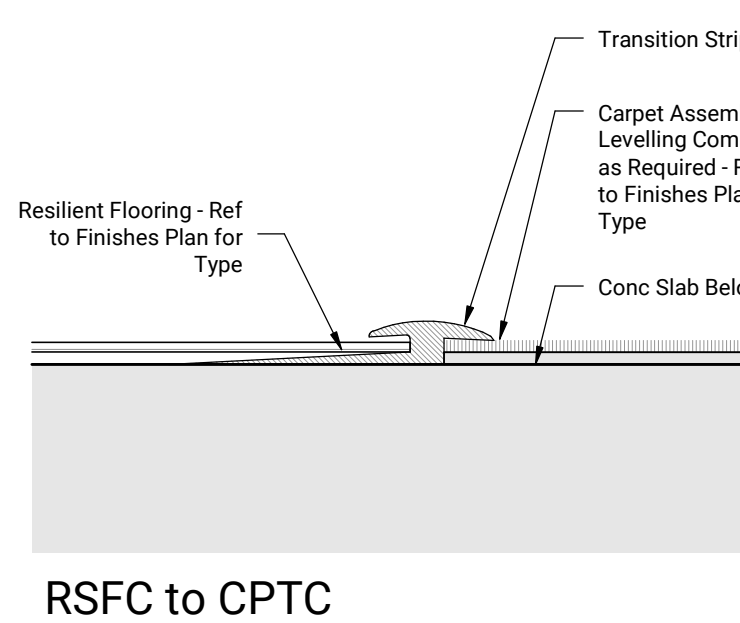
Floor Base Types

1:5

3
C-A102



RSFC to TLC



RSFC to CPTC

Typical Floor Transition Types

1:2

4
C-A102

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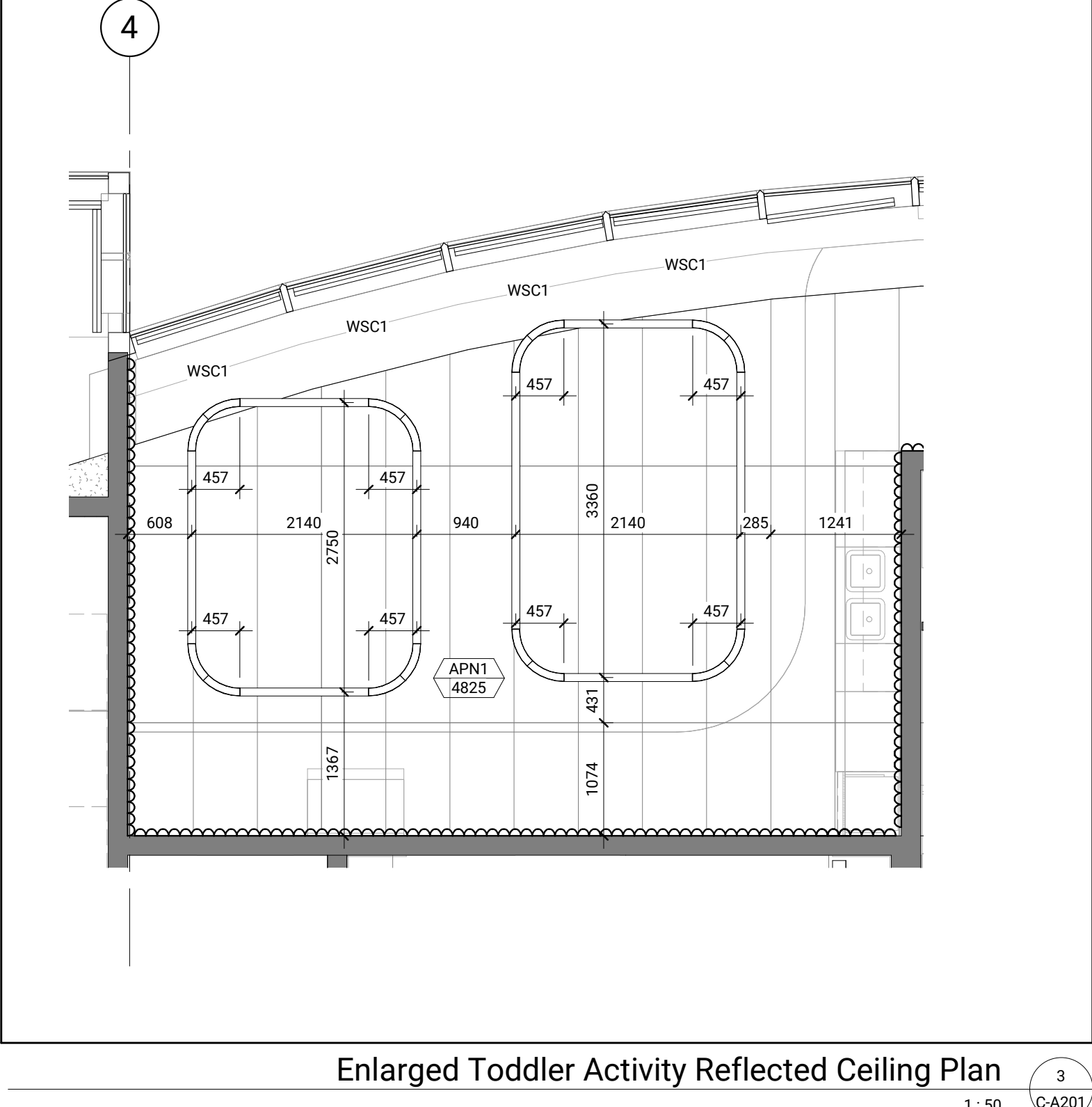
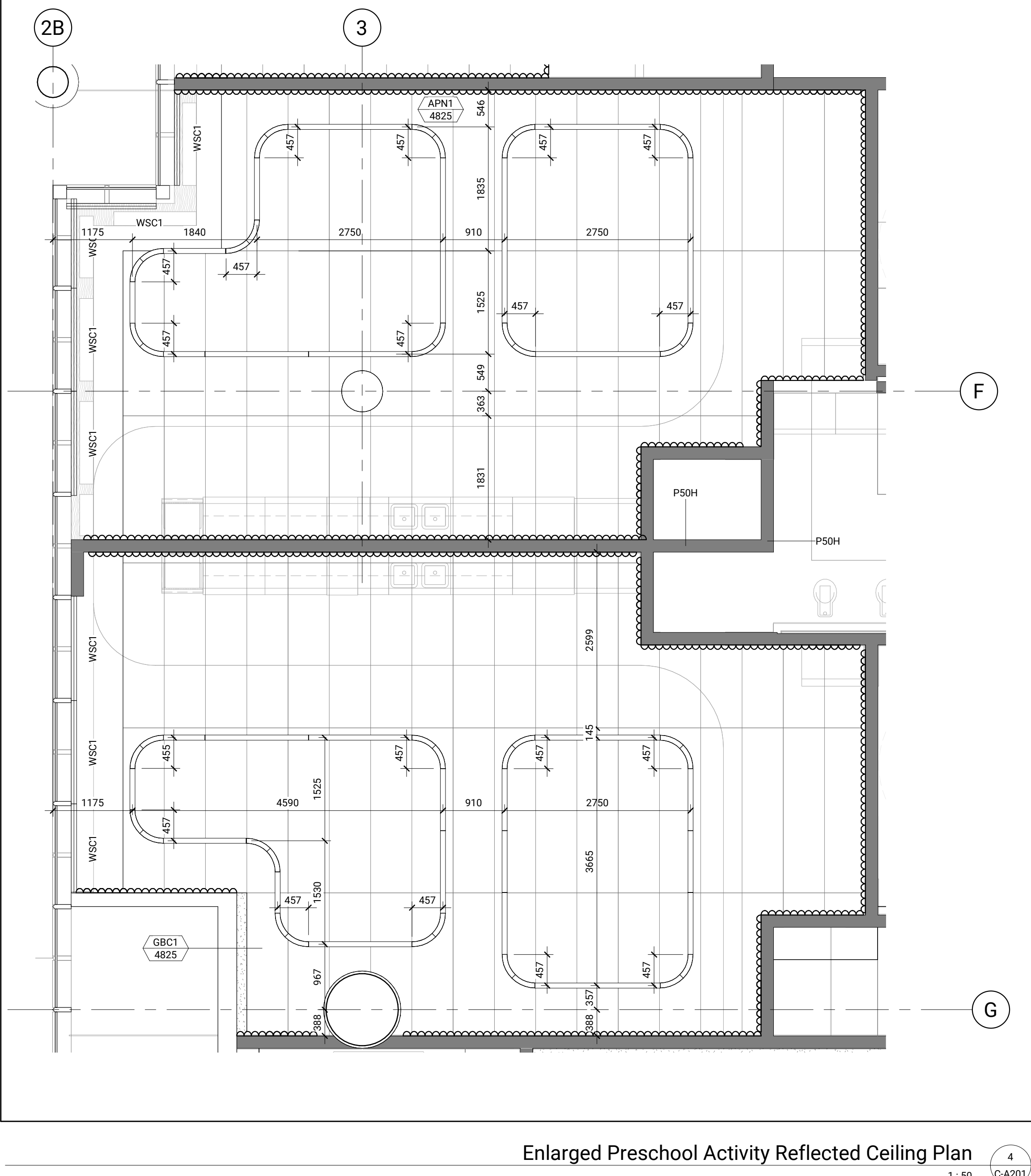
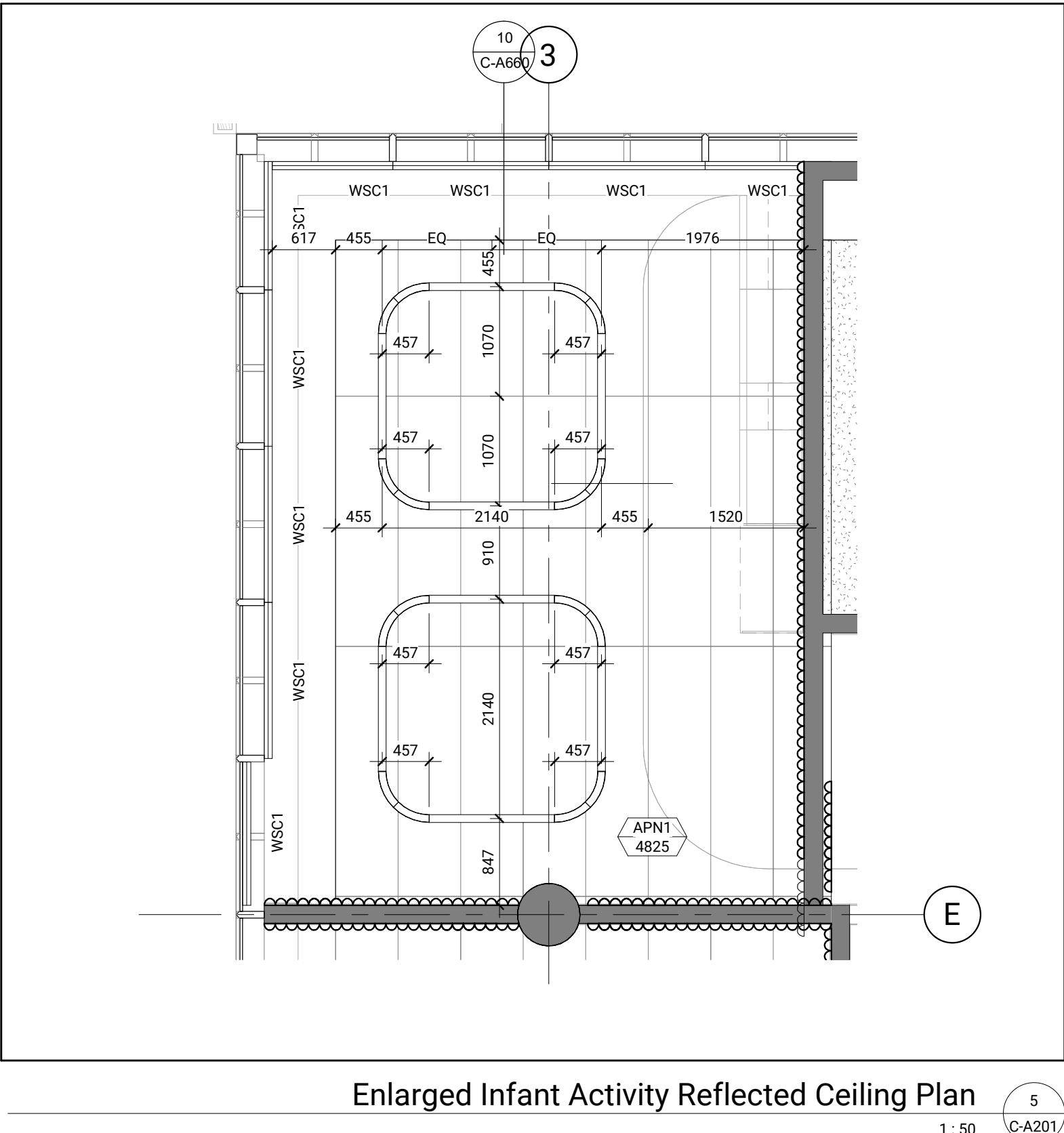
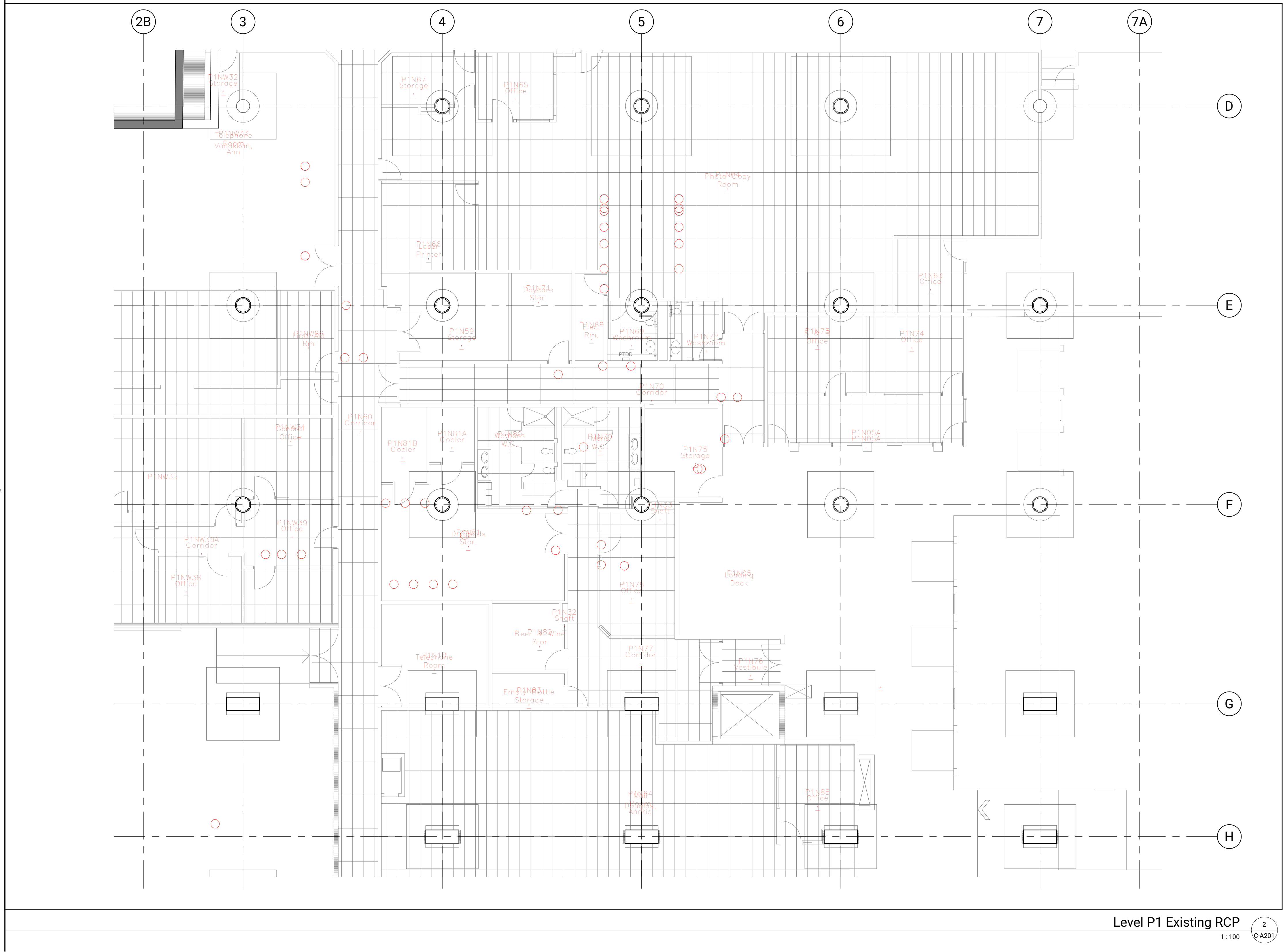
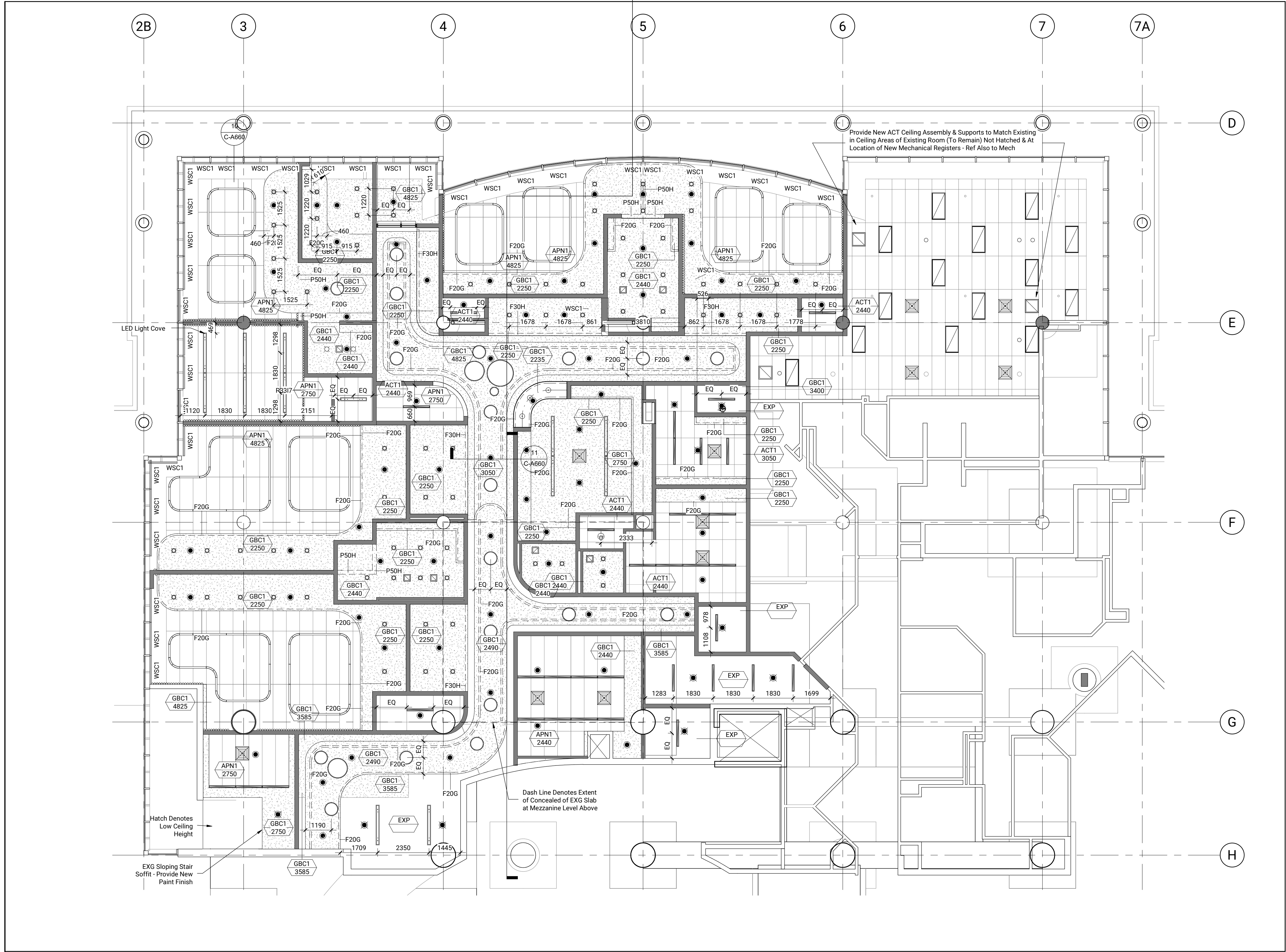
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TORONTO
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Renovation

55 John Street
Toronto ON
M5V 3C5
211019-21025
Child Care-Mezzanine & Finishes
Plan

As Indicated

C-A102



- LEGEND**
- Plan Symbols**
- Ceiling Type/Height Above Floor Level
 - Recessed Potlight
 - Recessed Wall Wash Potlight
 - Pendant Light Fixture
 - Wall Mounted Luminaire
 - Wall Mounted Linear Luminaire
 - Round Surface Mounted Luminaire
 - Recessed Luminaire
 - Surface Mounted Luminaire
 - Suspended Luminaire
 - Strip Lighting
 - Track Lighting Fixture
 - Spotlight
 - Sprinkler Head - Upright
 - Sprinkler Head - Concealed
 - Sprinkler Head - Pendant
 - Sprinkler Head - Side Wall/Window
 - Supply Air Diffuser
 - Return Air Diffuser
 - Linear Diffuser
 - Exhaust Arm
 - Radiant Panel
 - Chilled Beam
 - Access Panel
 - Roller Blind
 - Projection Screen
 - Occupancy Sensor
 - Daylight Sensor
 - Specialty Sensor
 - Speaker - Low Level Paging
 - Speaker - Audio/Visual
 - Fire Alarm - Speaker/Horn
 - Fire Alarm - Bell
 - Fire Alarm - Strobe
 - Fire Alarm - Speaker/Horn/Strobe
 - Smoke Detector
 - Exit Sign - Ceiling Mounted
 - Exit Sign - Wall Mounted
 - Emergency Light
 - Camera - Security
 - Camera - Security Wall Mounted
 - Camera - Audio/Visual
 - Camera - Audio/Visual Wall Mounted
 - Clock - Wall Mounted

- GENERAL NOTES**
- Ceiling**
- Refer to Mechanical and Electrical Drawings for All Ceiling Mounted Fixtures and Mechanical and Electrical Equipment. Positioning of All Mechanical and Electrical Fixtures and Equipment Shall Be Governed by Architectural Drawings Subject to Full Compliance with Code Requirements. Report Any Discrepancies Between Engineering and Architectural Documents Prior to Commencement of Work.
 - Refer to Audiovisual Drawings for All Audiovisual Ceiling Mounted Fixtures and Equipment. Positioning of All Audiovisual Fixtures and Equipment Shall Be Governed by Architectural Drawings Subject to Full Compliance with Audiovisual Requirements. Report Any Discrepancies Between Audiovisual and Architectural Documents Prior to Commencement of Work.
 - All Fixture Layout Dimensions Provided are to Face of Finished

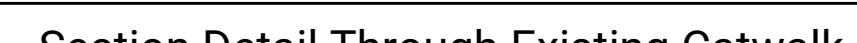
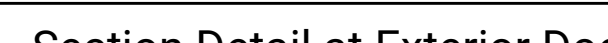
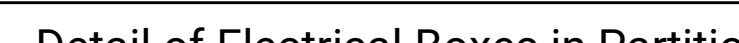
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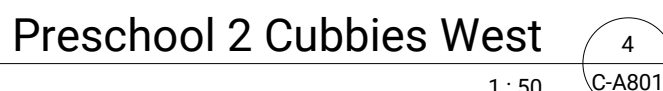
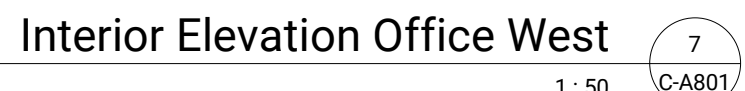
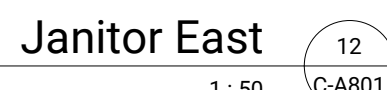
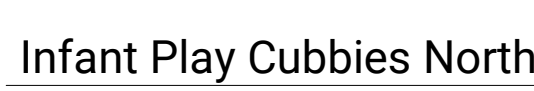
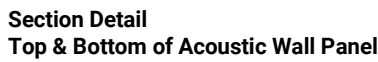
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Interior Details



Room Finish Schedule General Notes:

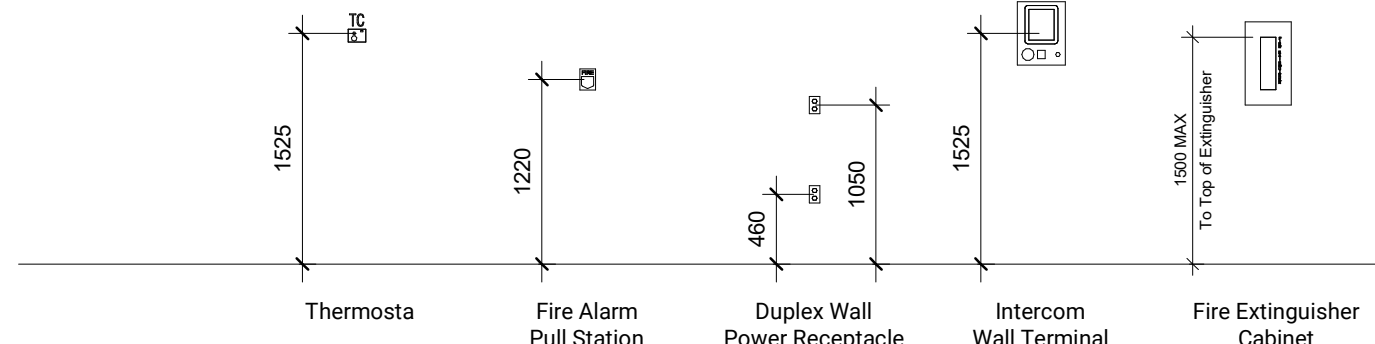
1. Provide Blocking in Partitions for Support of Owner-Supplied Storage Elements. Ref to Specifications for Additional Blocking Requirements.
2. Ref to Mechanical and Electrical Specifications and Drawings for Requirements of Plywood Mounting Substrate at Equipment.
3. Provide Plywood Blocking (MIN 19mm Thick) in Partition / Wall for Support of Digital Display Mount(s). Ref to Floor Plan and Audio-visual Drawings for Requirements.



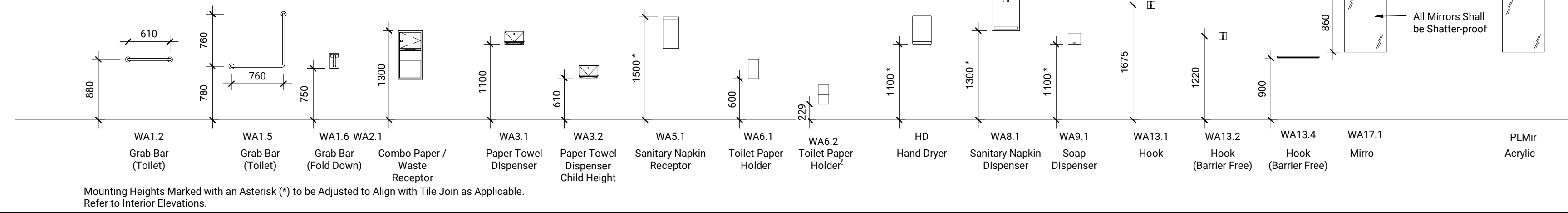
Toronto
Metro Hall Fire Station &
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Renovation

Interior Elevations

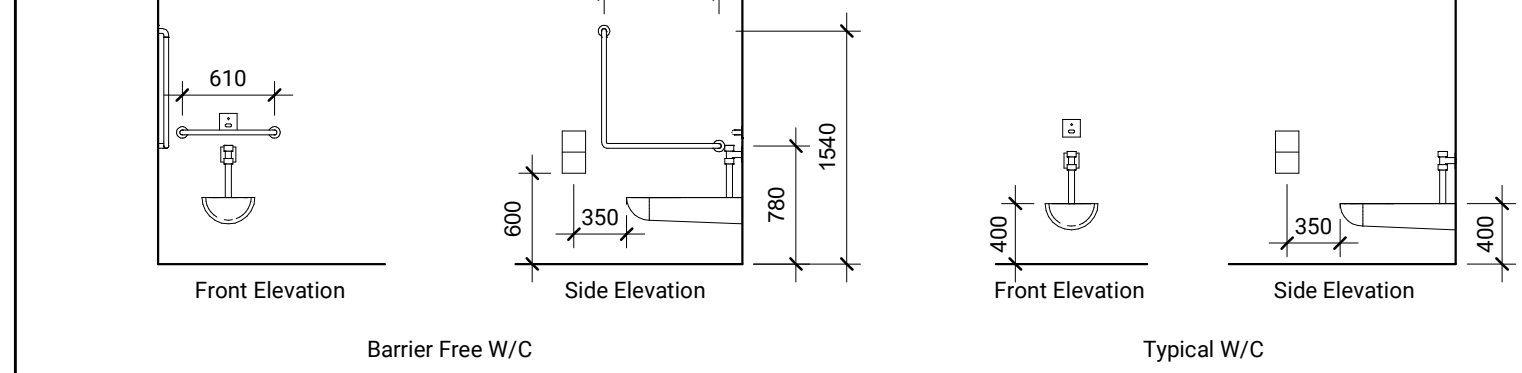
C-A801



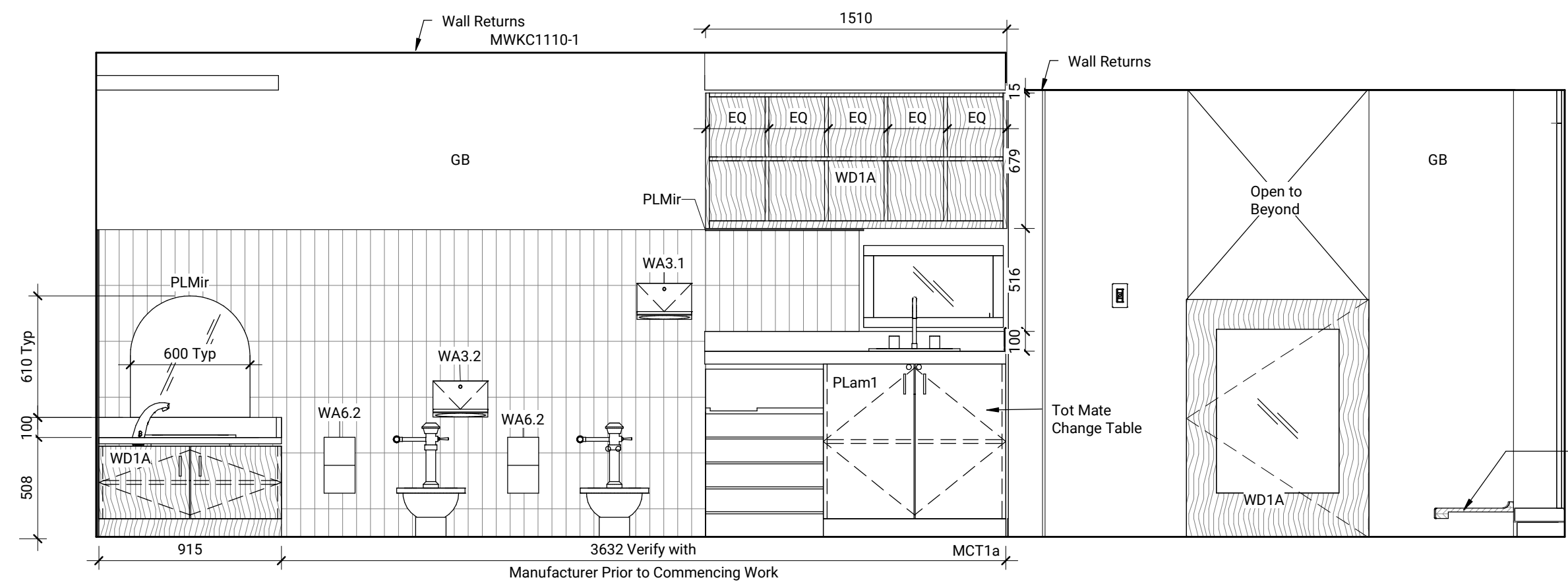
Device Mounting Height Schedule
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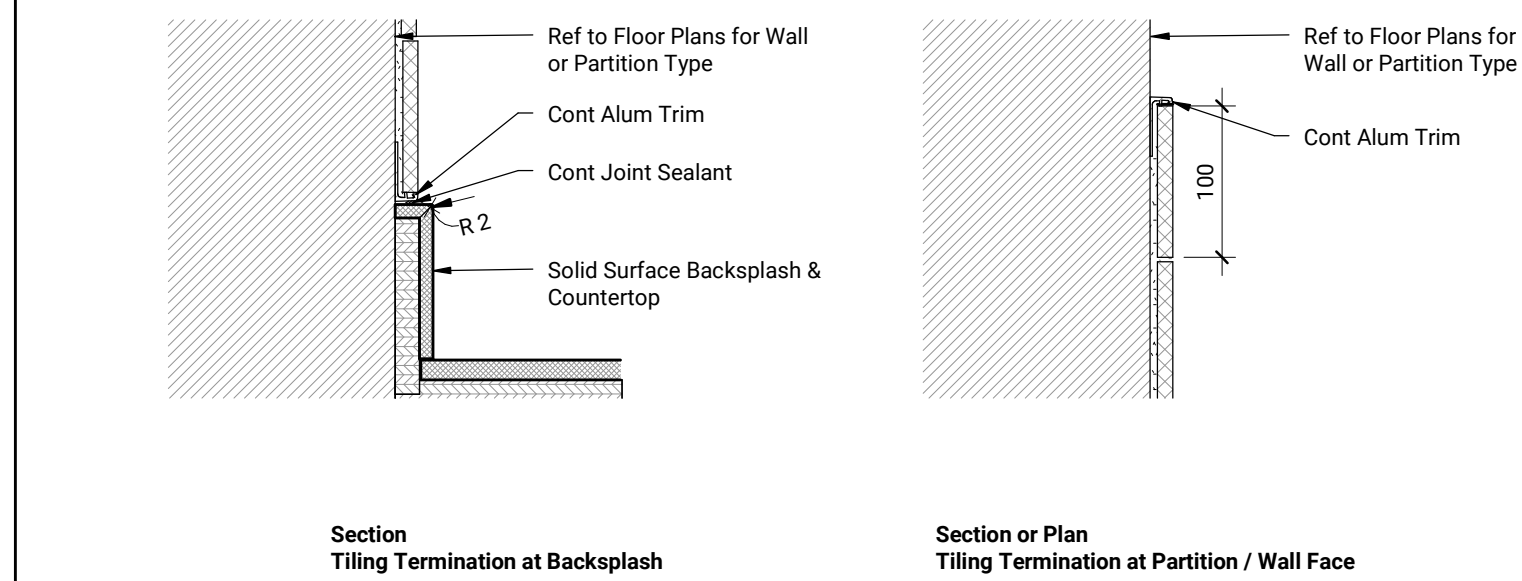
Washroom Accessories Schedule
1:50



Water Closet & Accessories Schedule
1:50

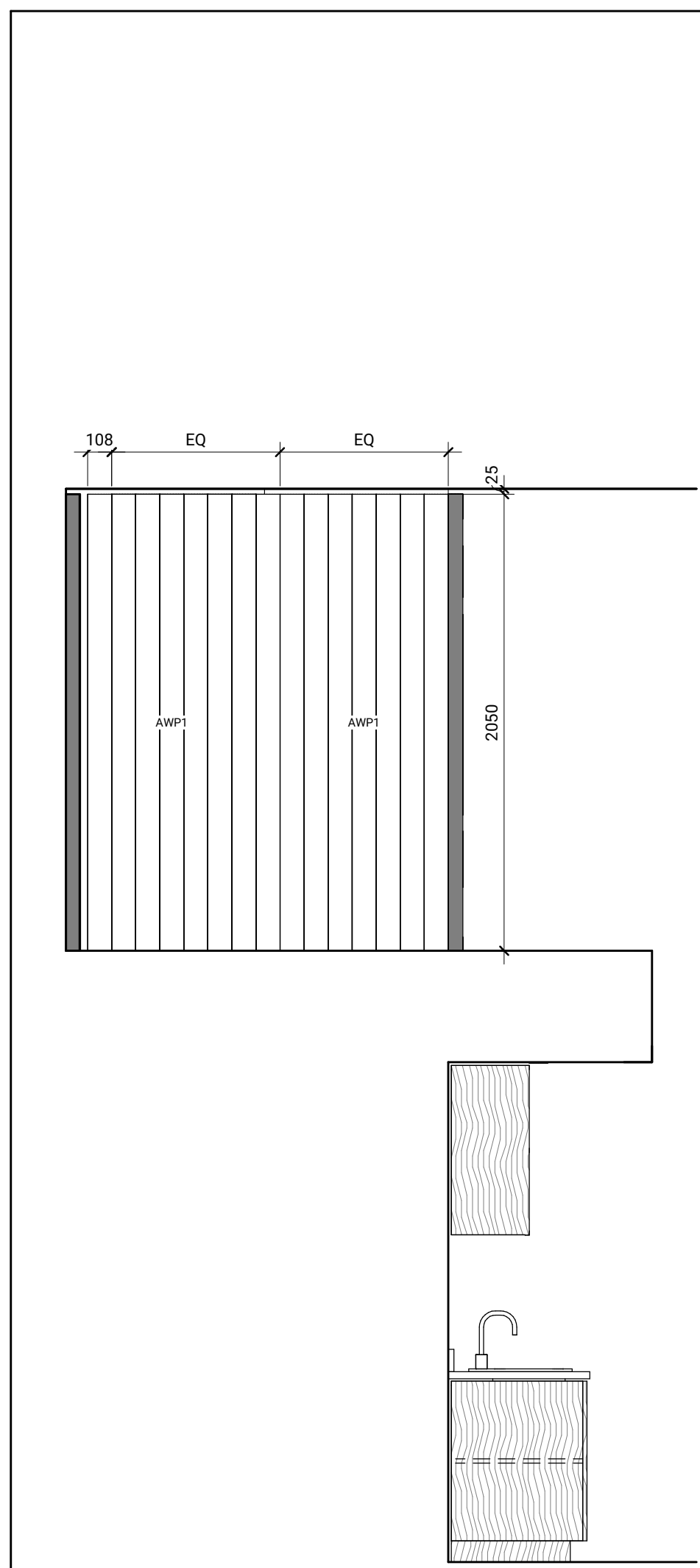


Interior Elevation Toddler Washroom West
1:25

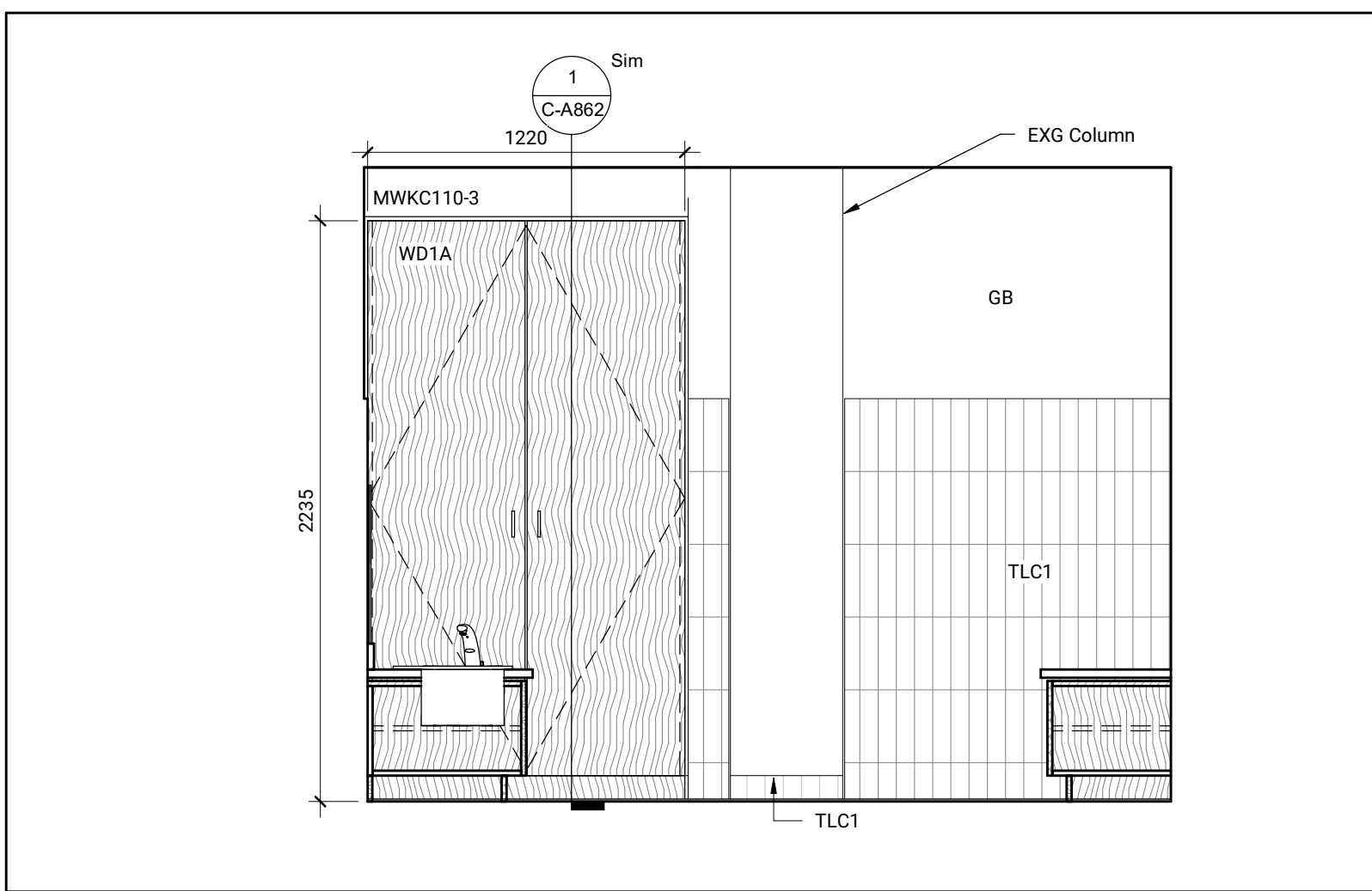


Tile Termination Types
1:5

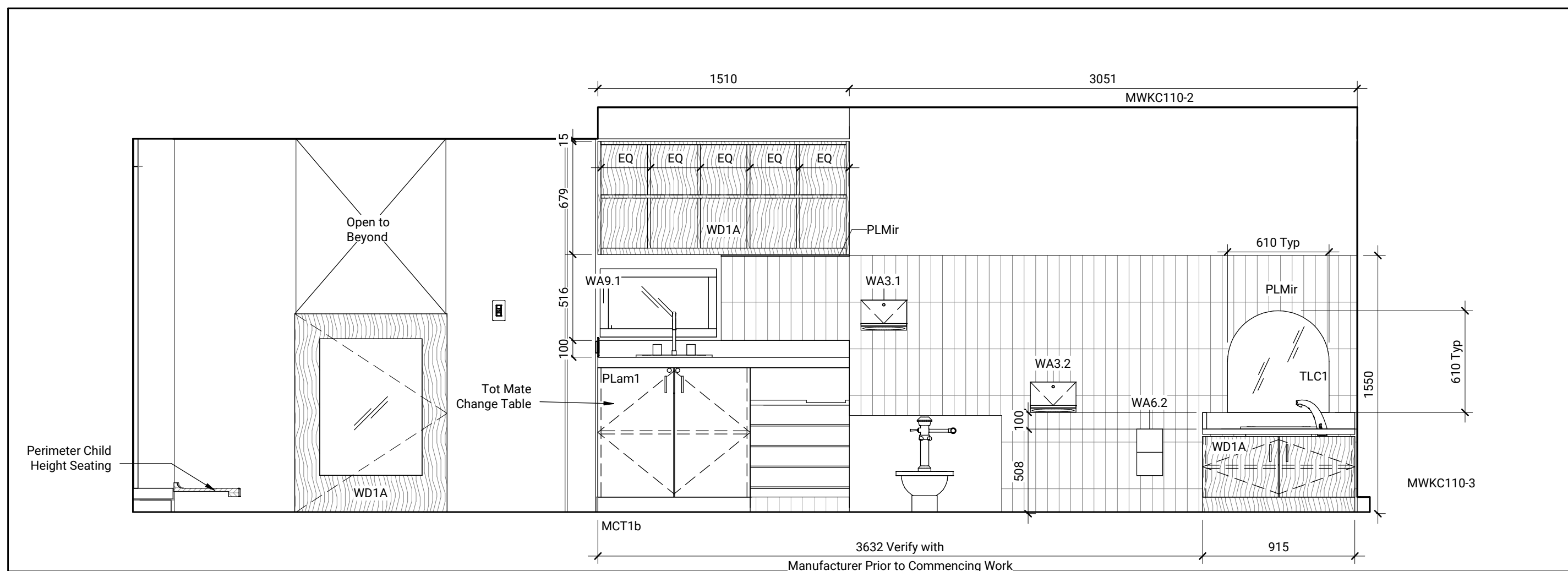
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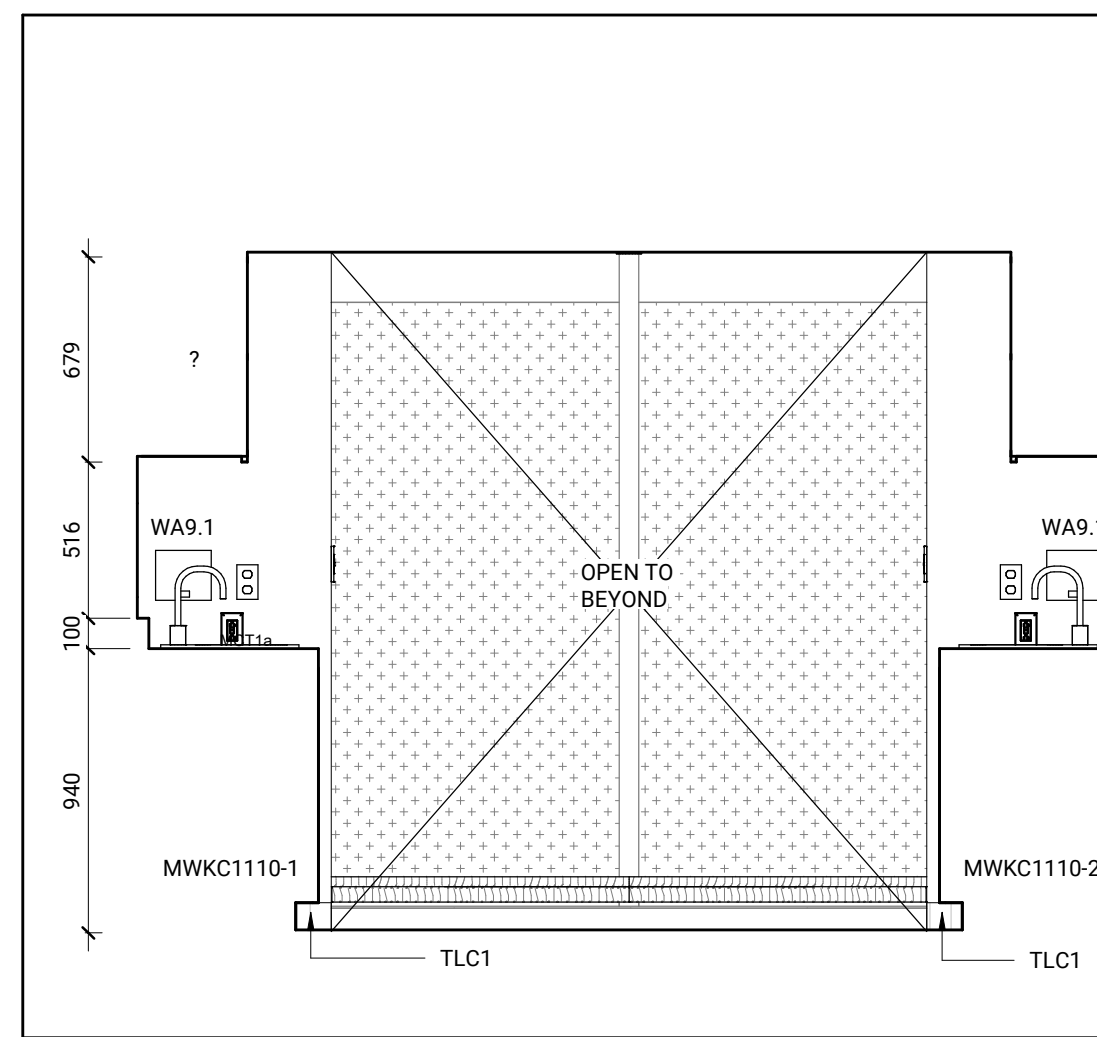
Toddler Activity 1 South Corner
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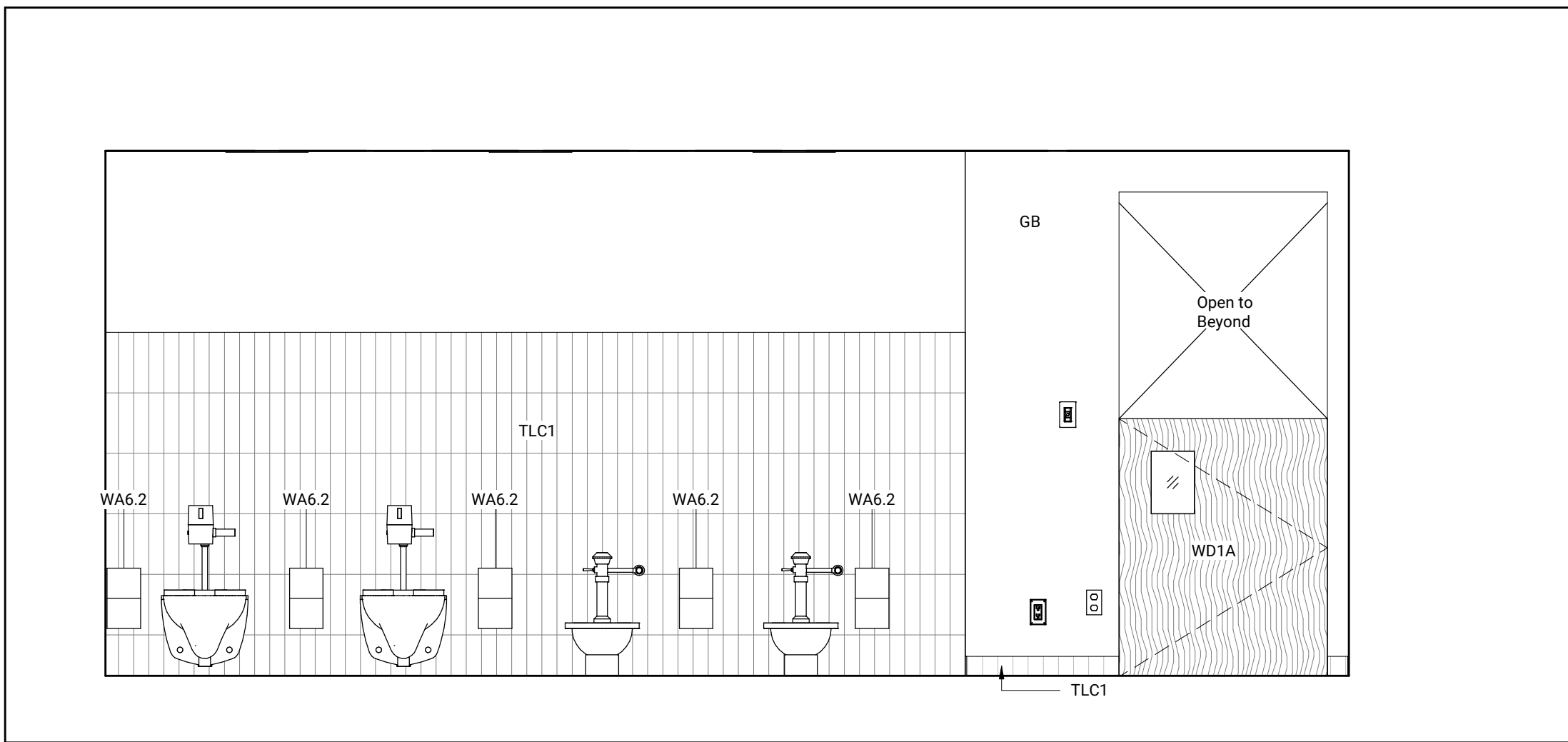
Interior Elevation Toddler Washroom South
1:25



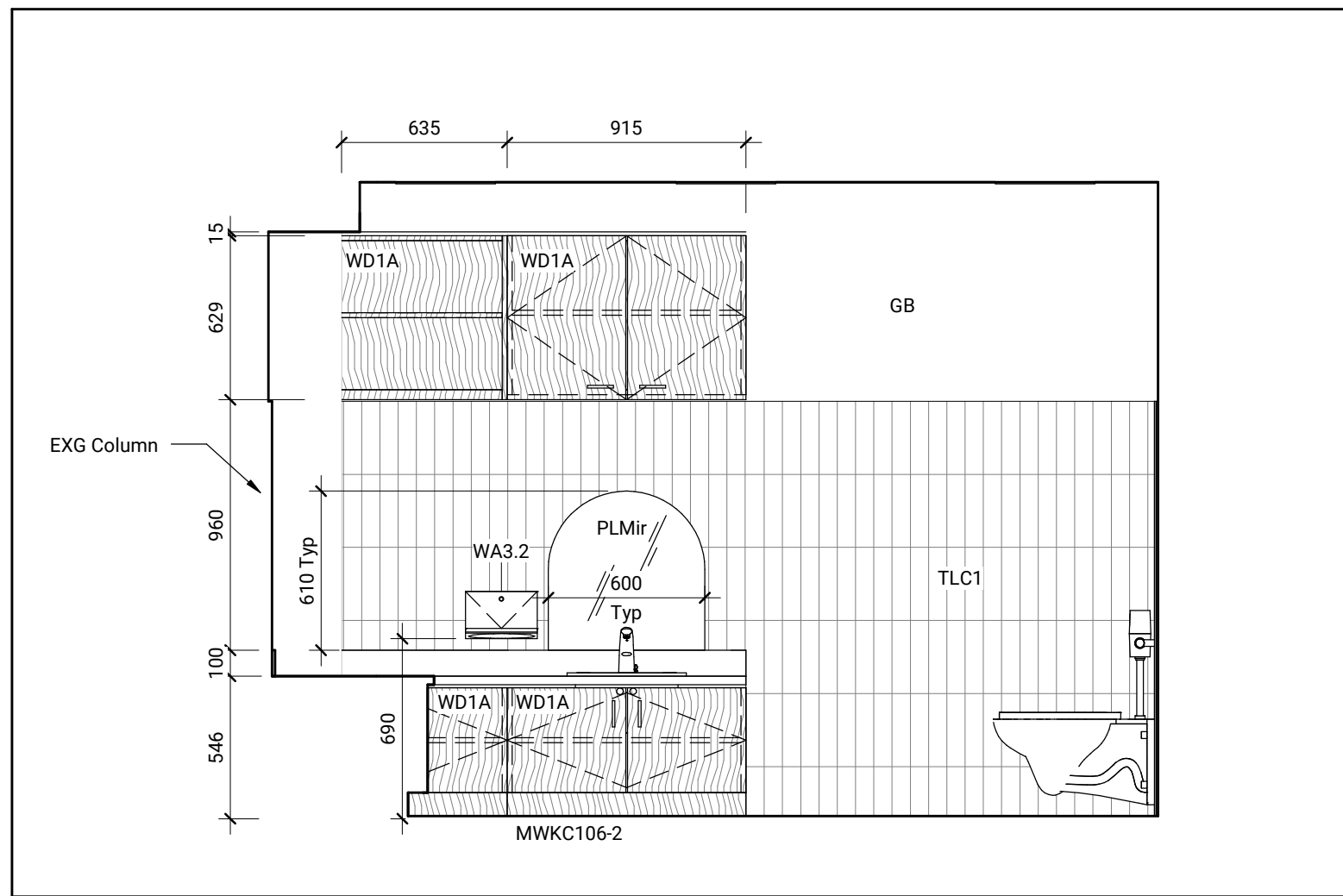
Interior Elevation Toddler Washroom East
1:25



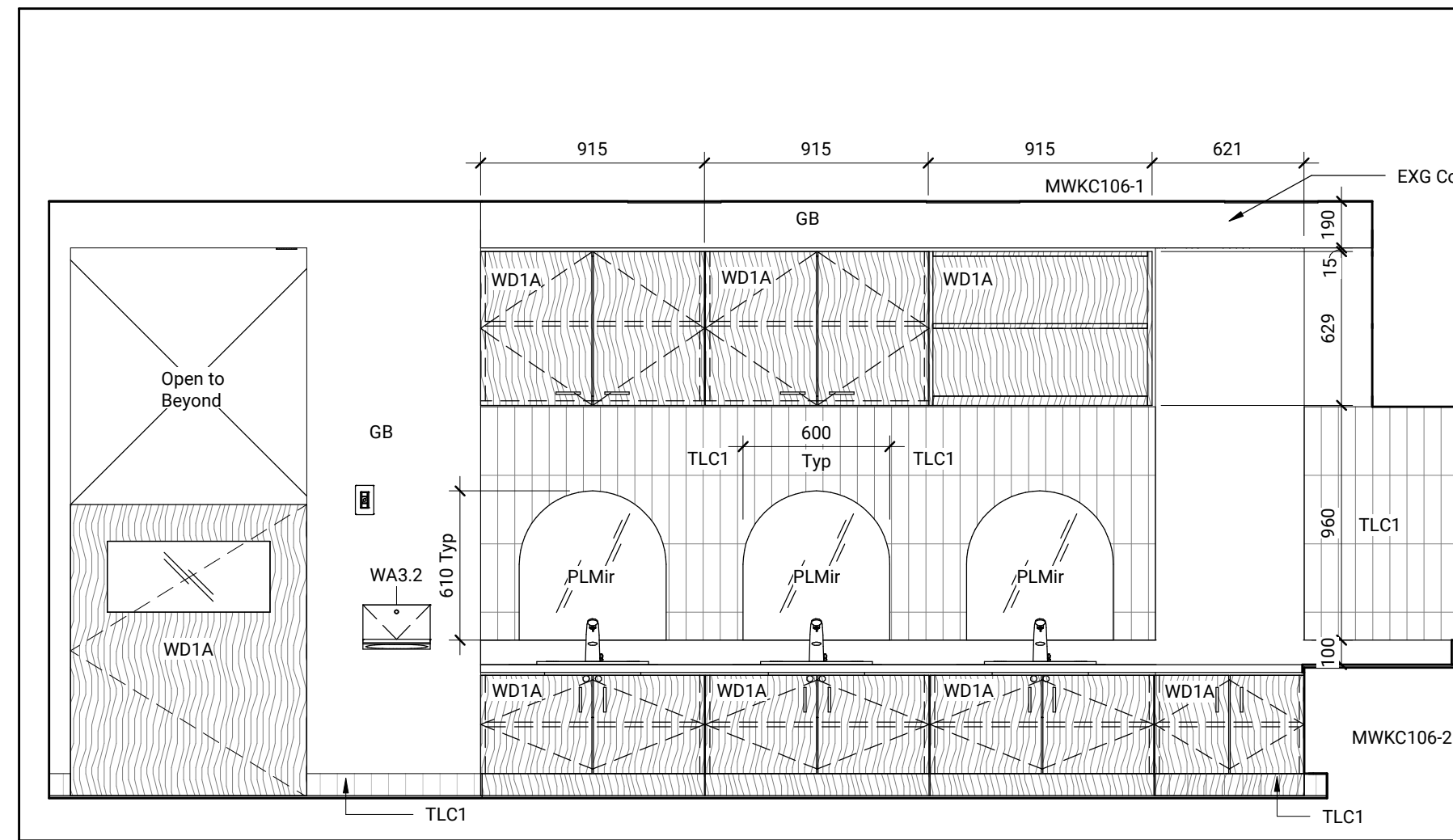
Interior Elevation Toddler Washroom North
1:25



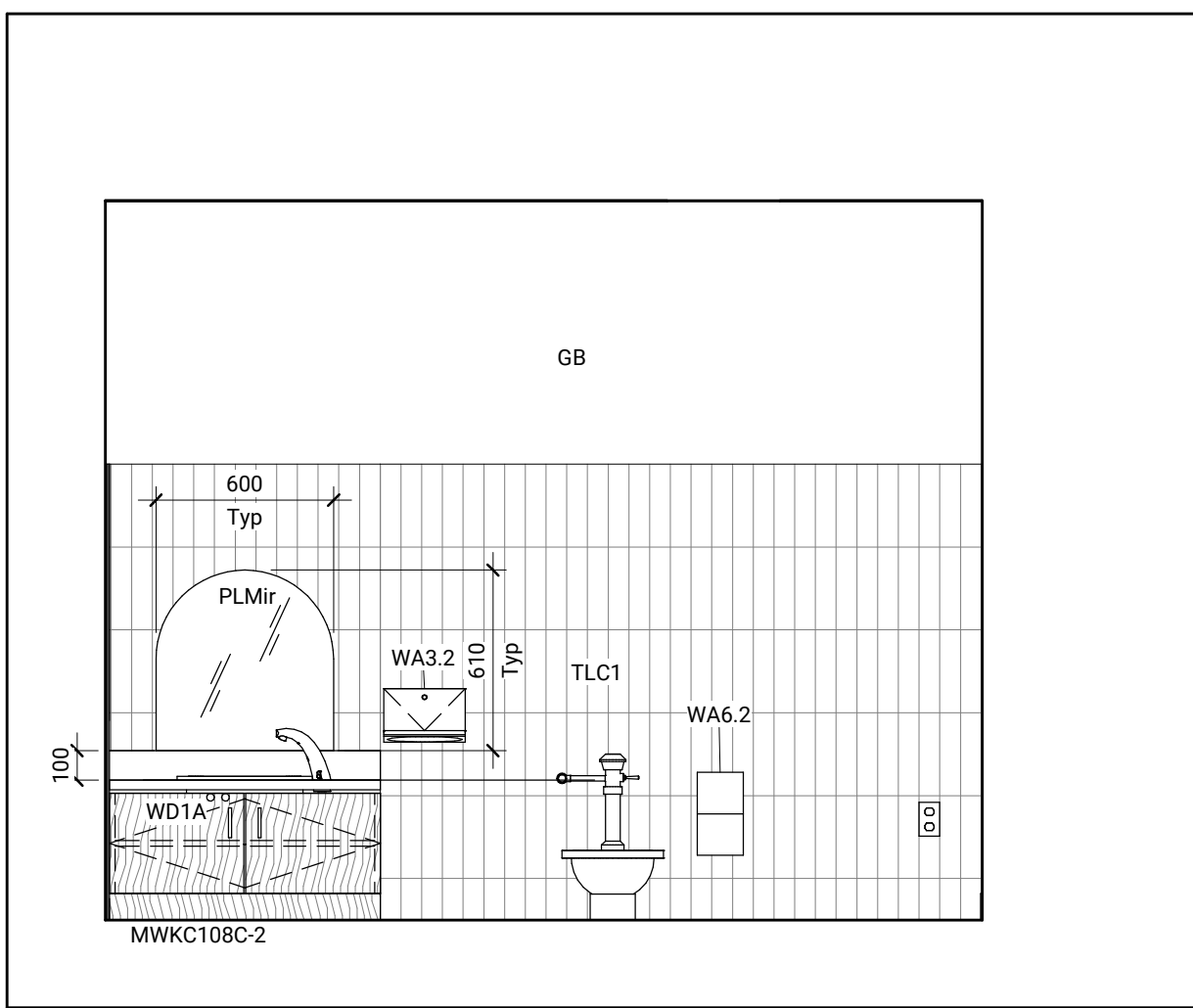
Interior Elevation Preschool Washroom South
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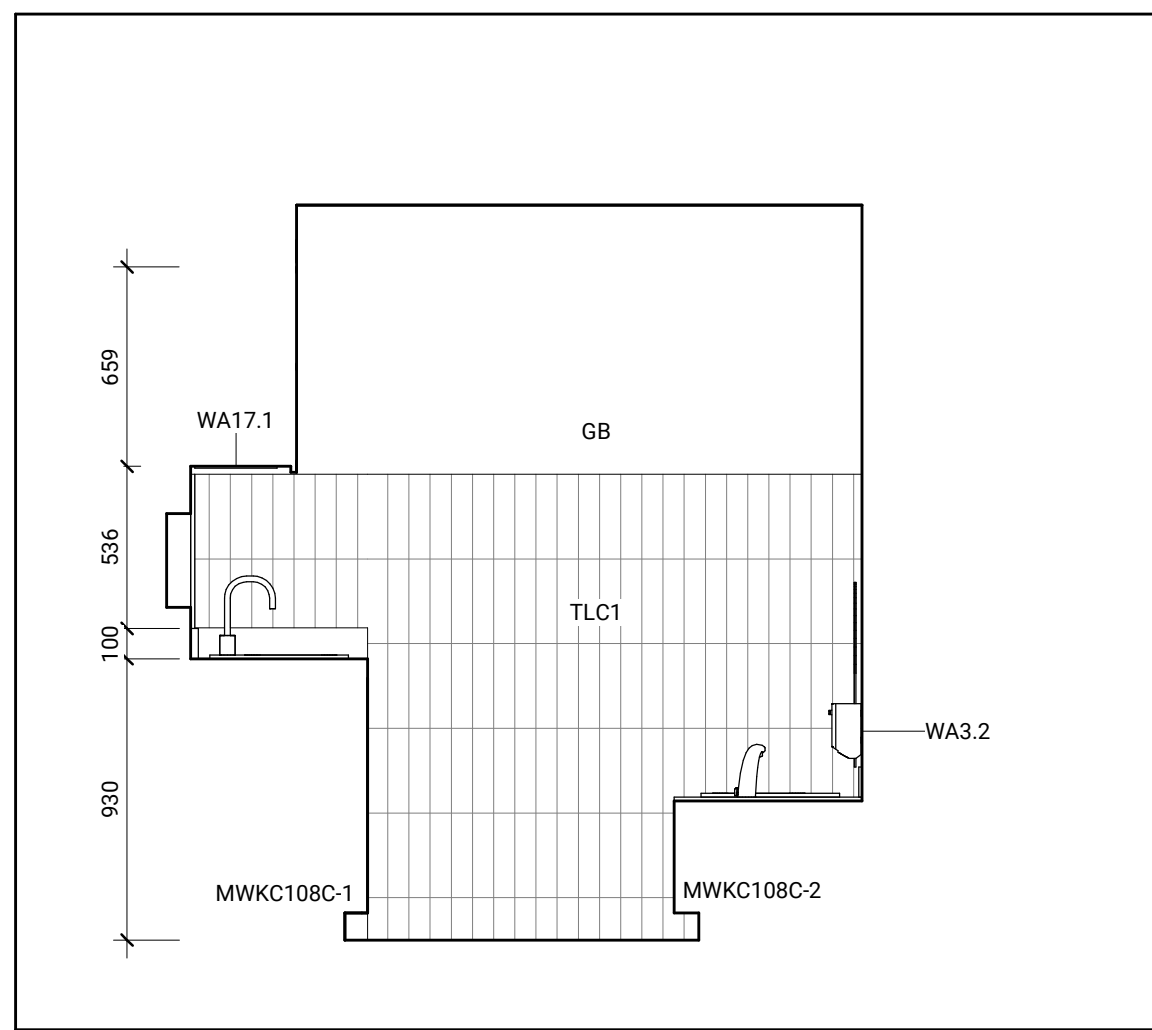
Interior Elevation Preschool Washroom East
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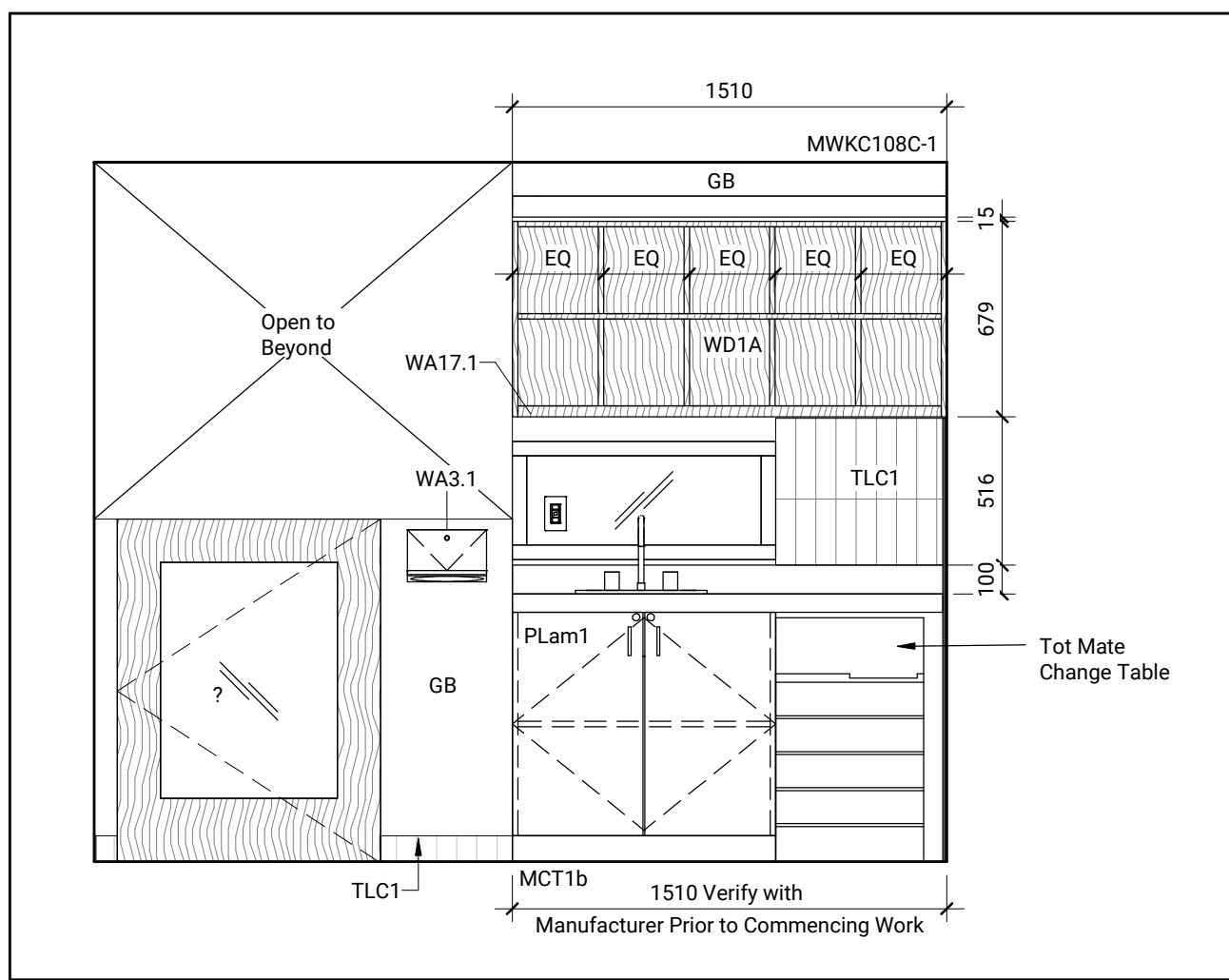
Interior Elevation Preschool Washroom North
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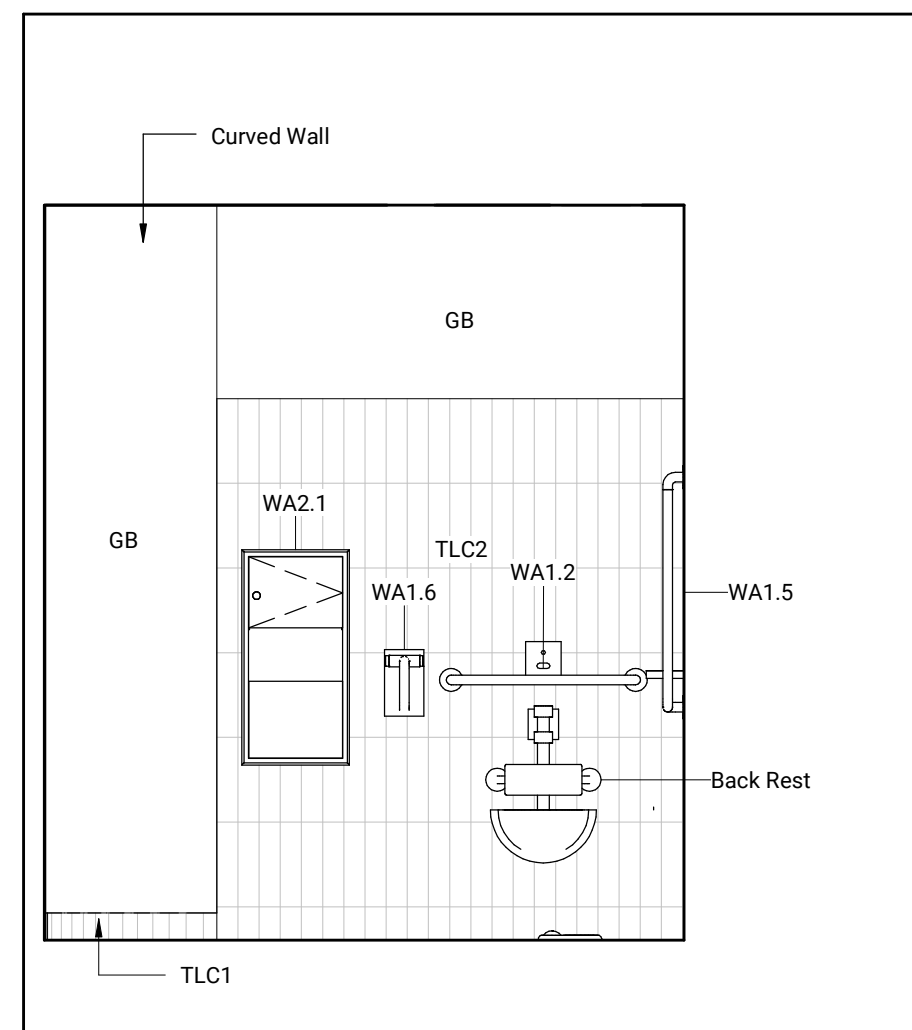
Interior Elevation Infant Washroom South
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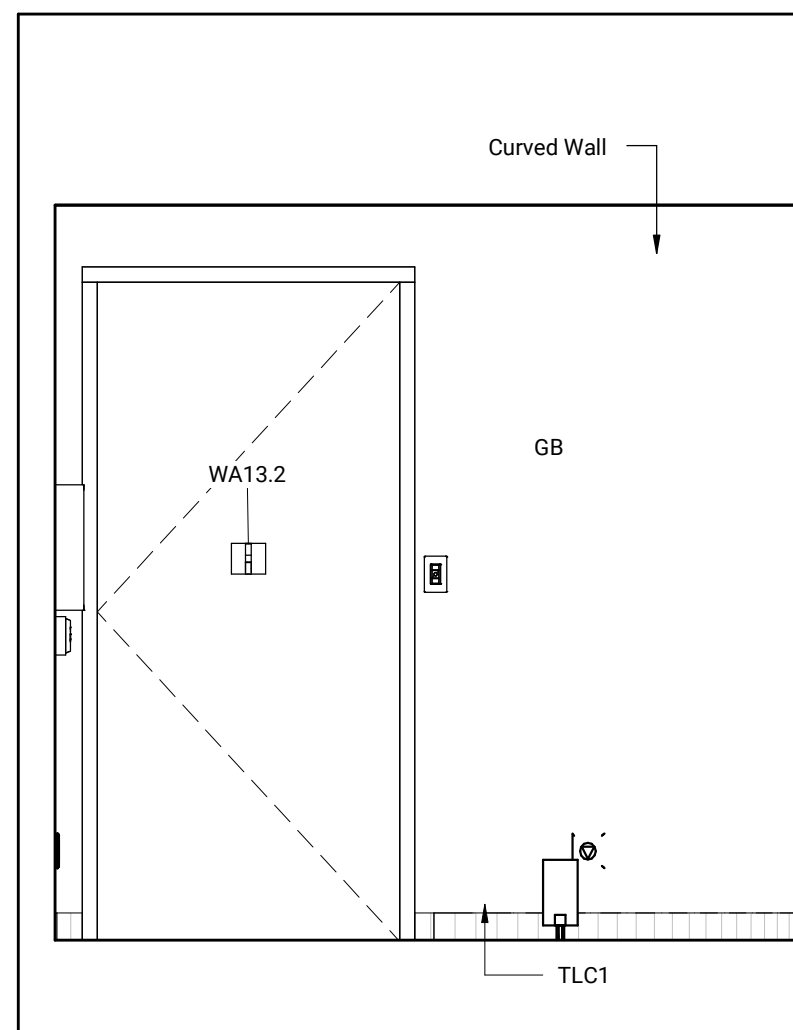
Interior Elevation Infant Washroom East
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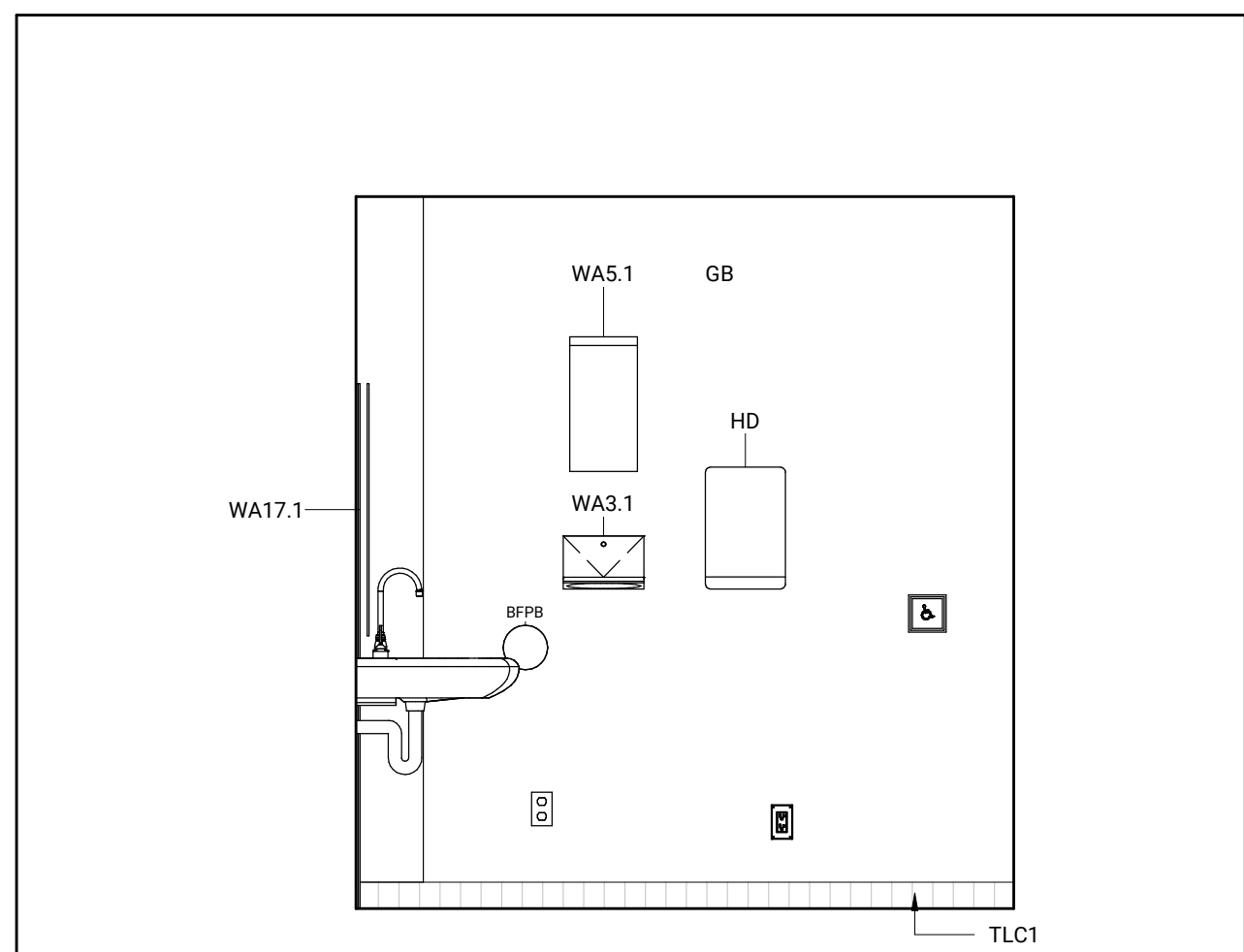
Interior Elevation Infant Washroom North
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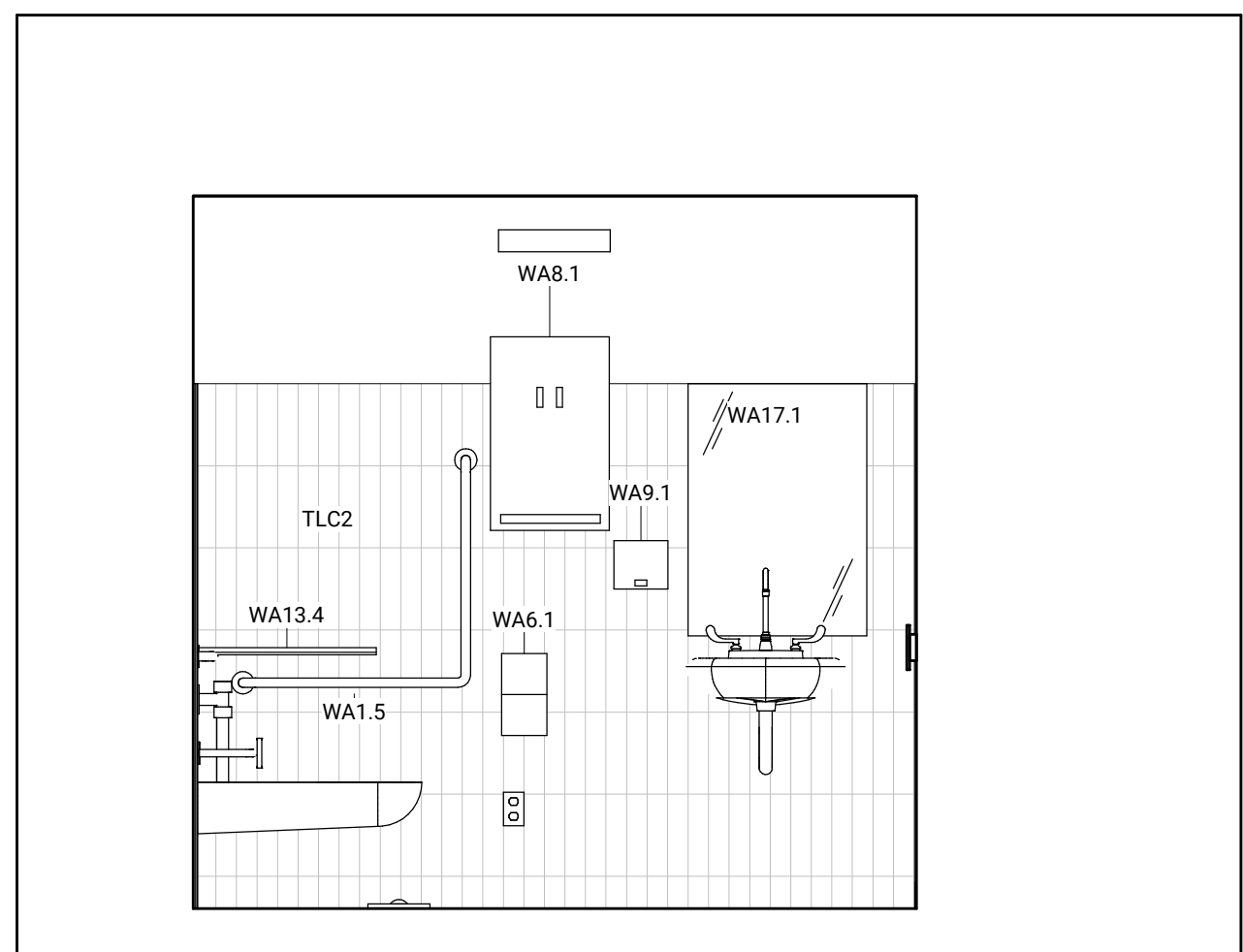
Barrier Free Washroom West
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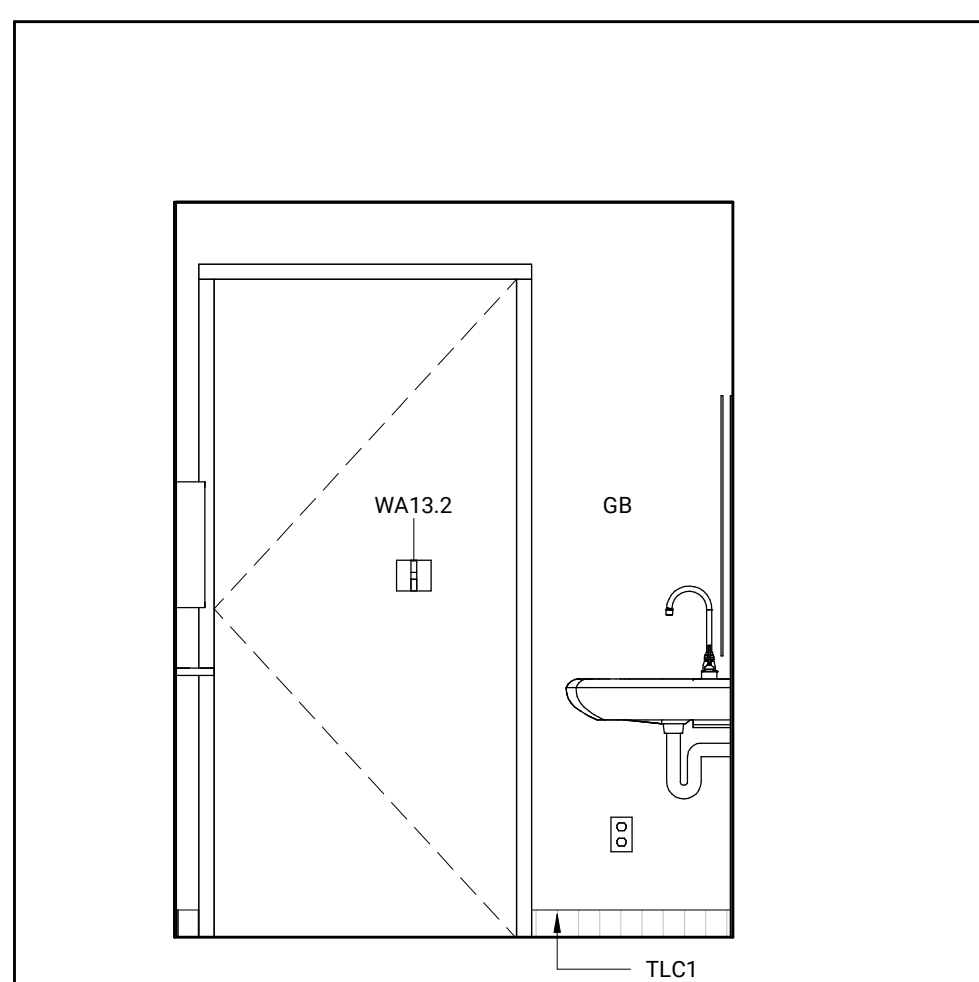
Barrier Free Washroom South
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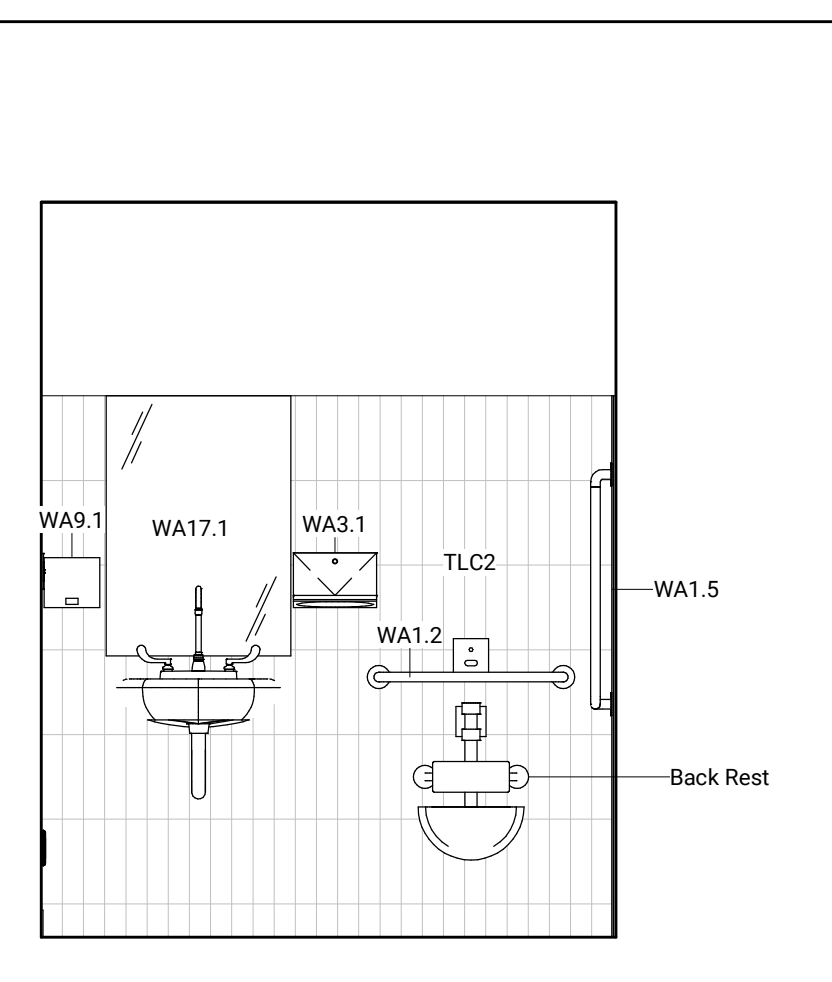
Interior Elevation Barrier Free Washroom East
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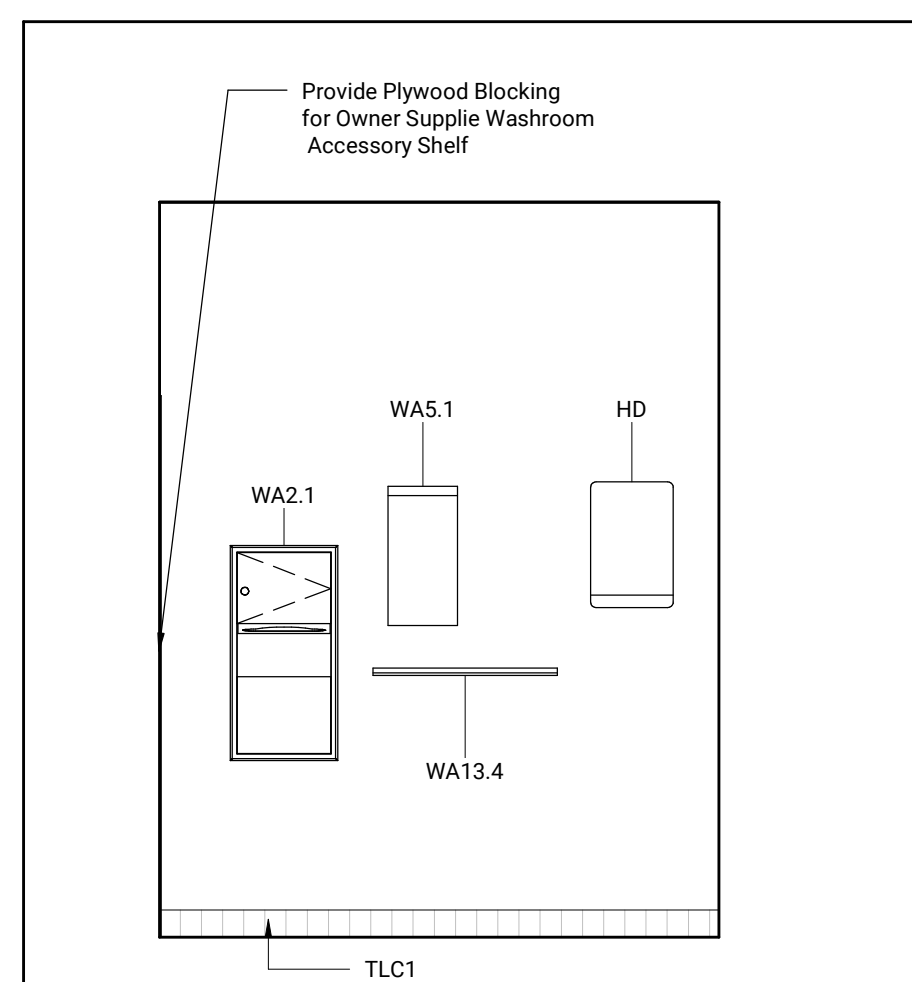
Interior Elevation Barrier Free Washroom North
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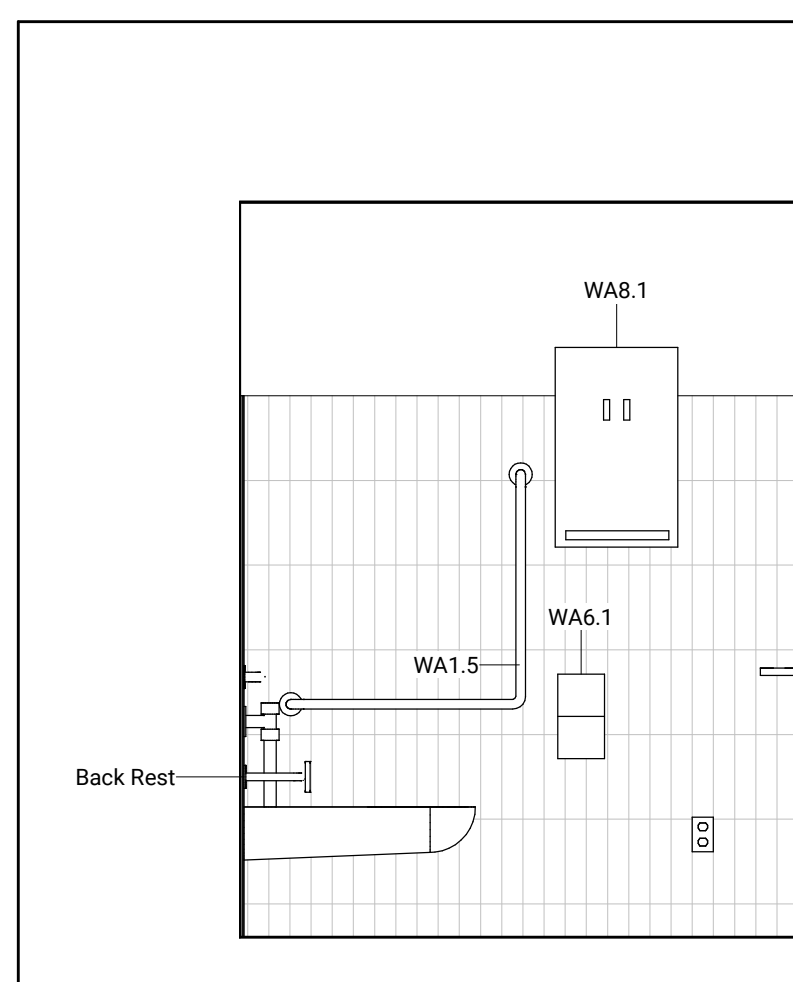
Staff Washroom South
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Staff Washroom West
1:25



Staff Washroom East
1:25



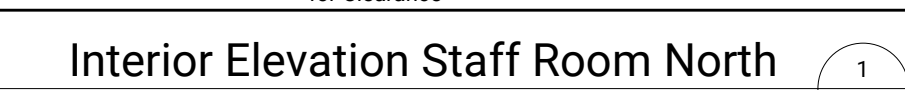
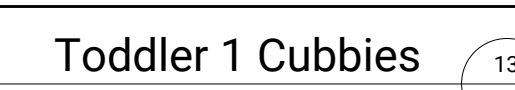
Staff Washroom North
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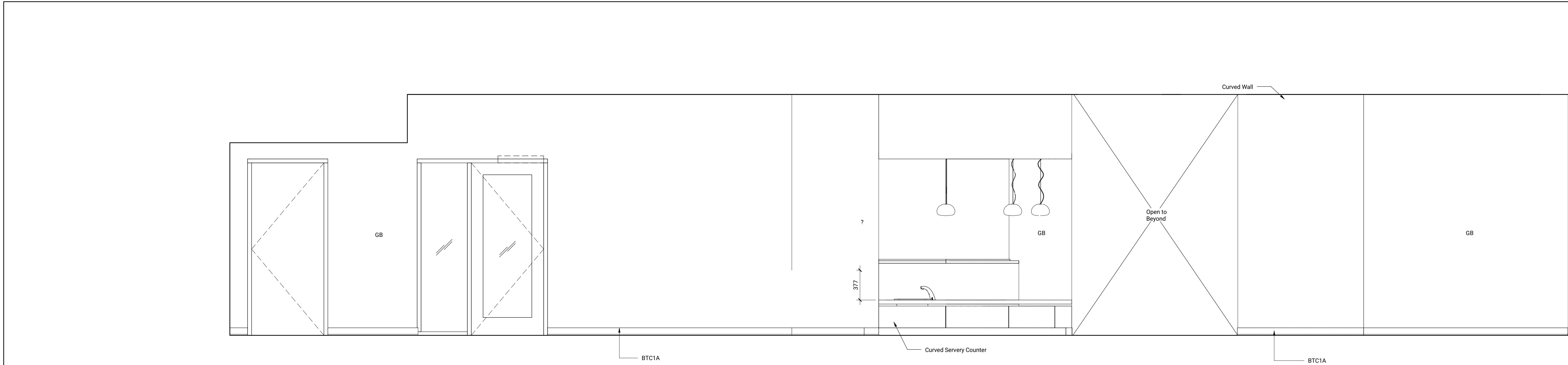
TORONTO
Metro Hall Fire Station &
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55 John Street
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Interior Elevations & Washroom
Accessories
As Indicated

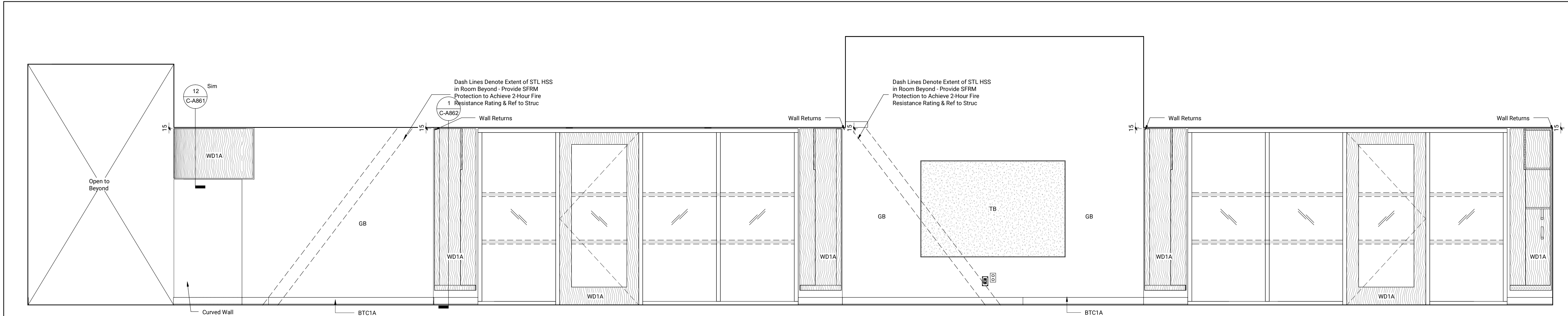
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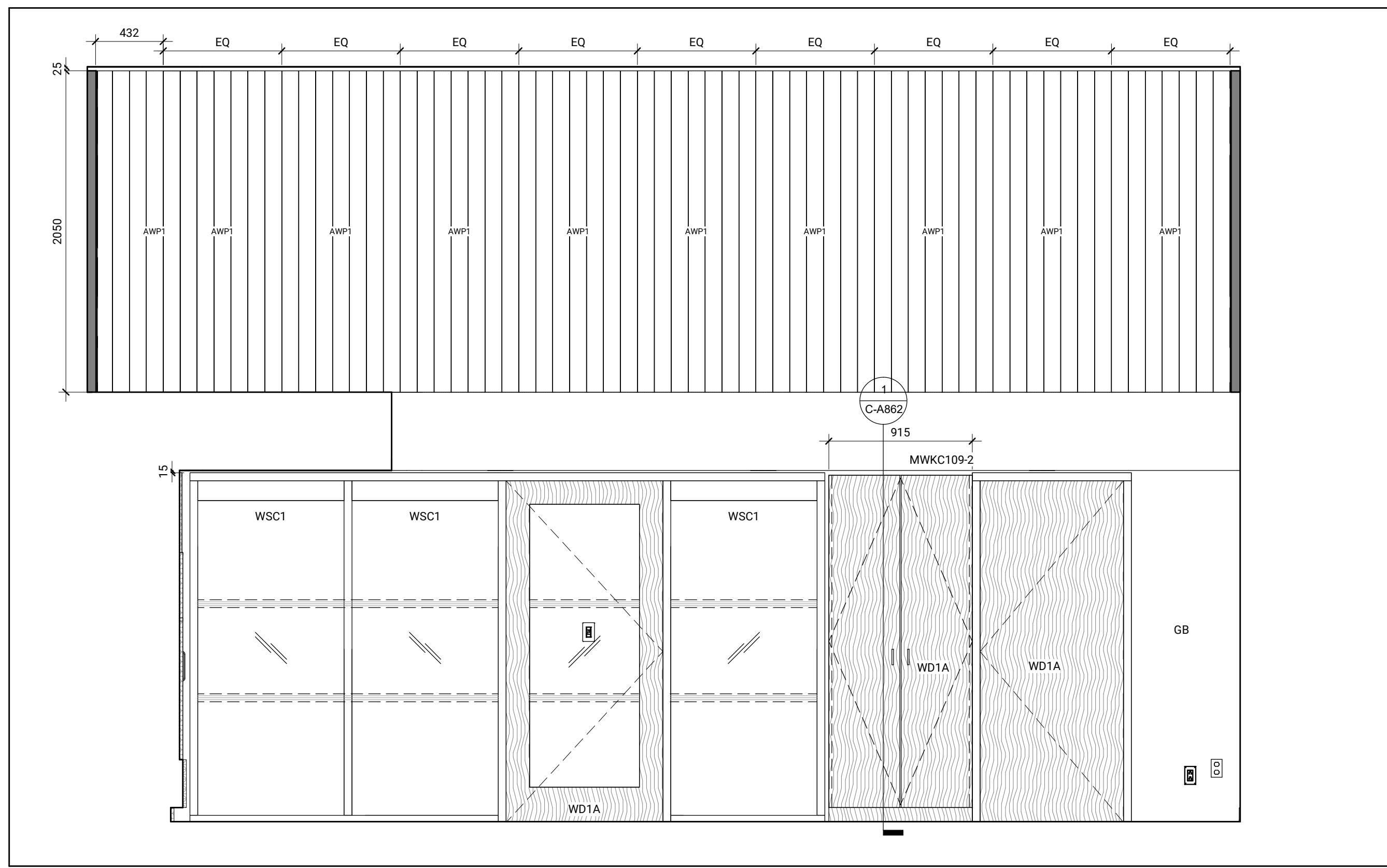
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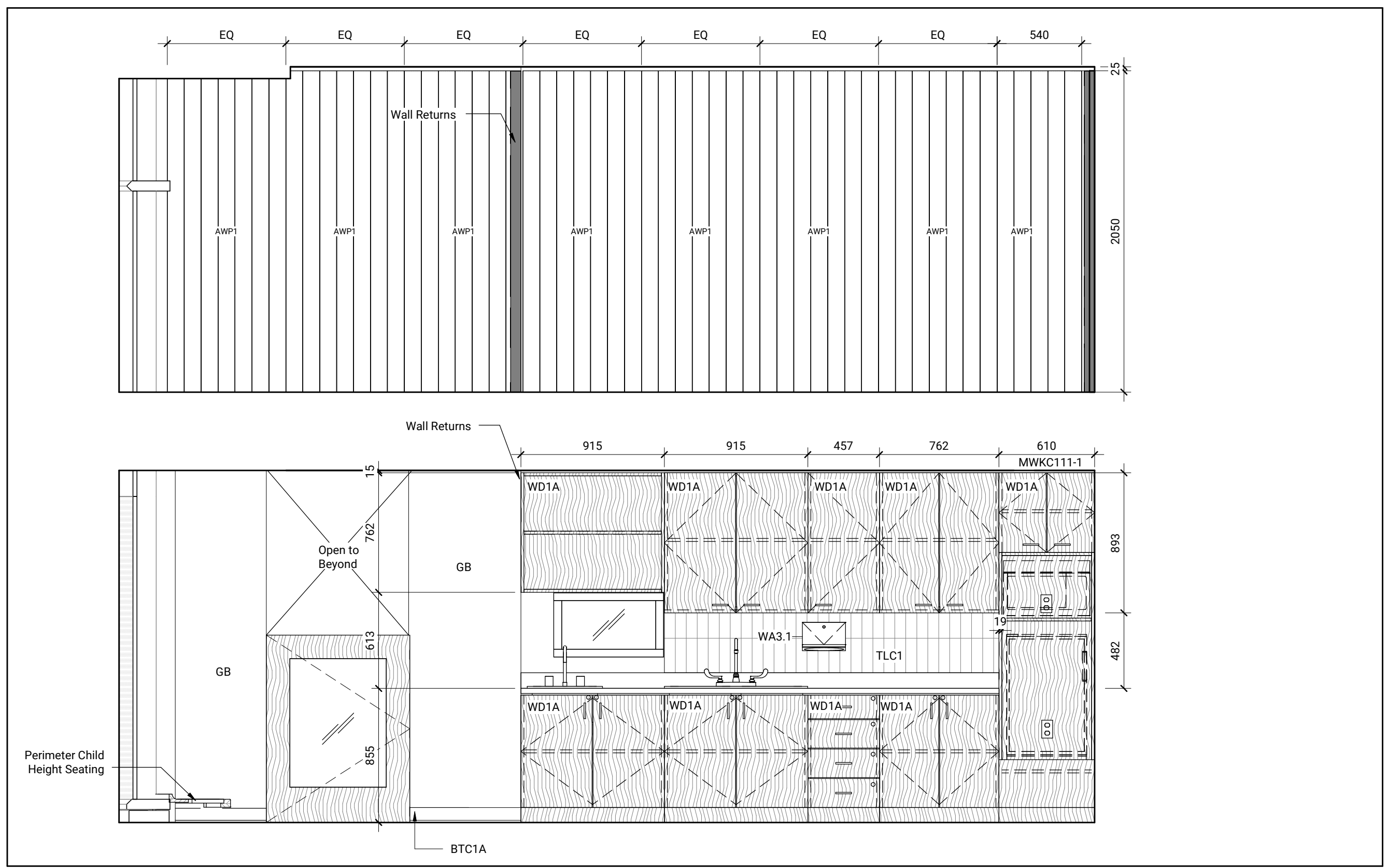
Interior Elevation North Corridor
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C-A804



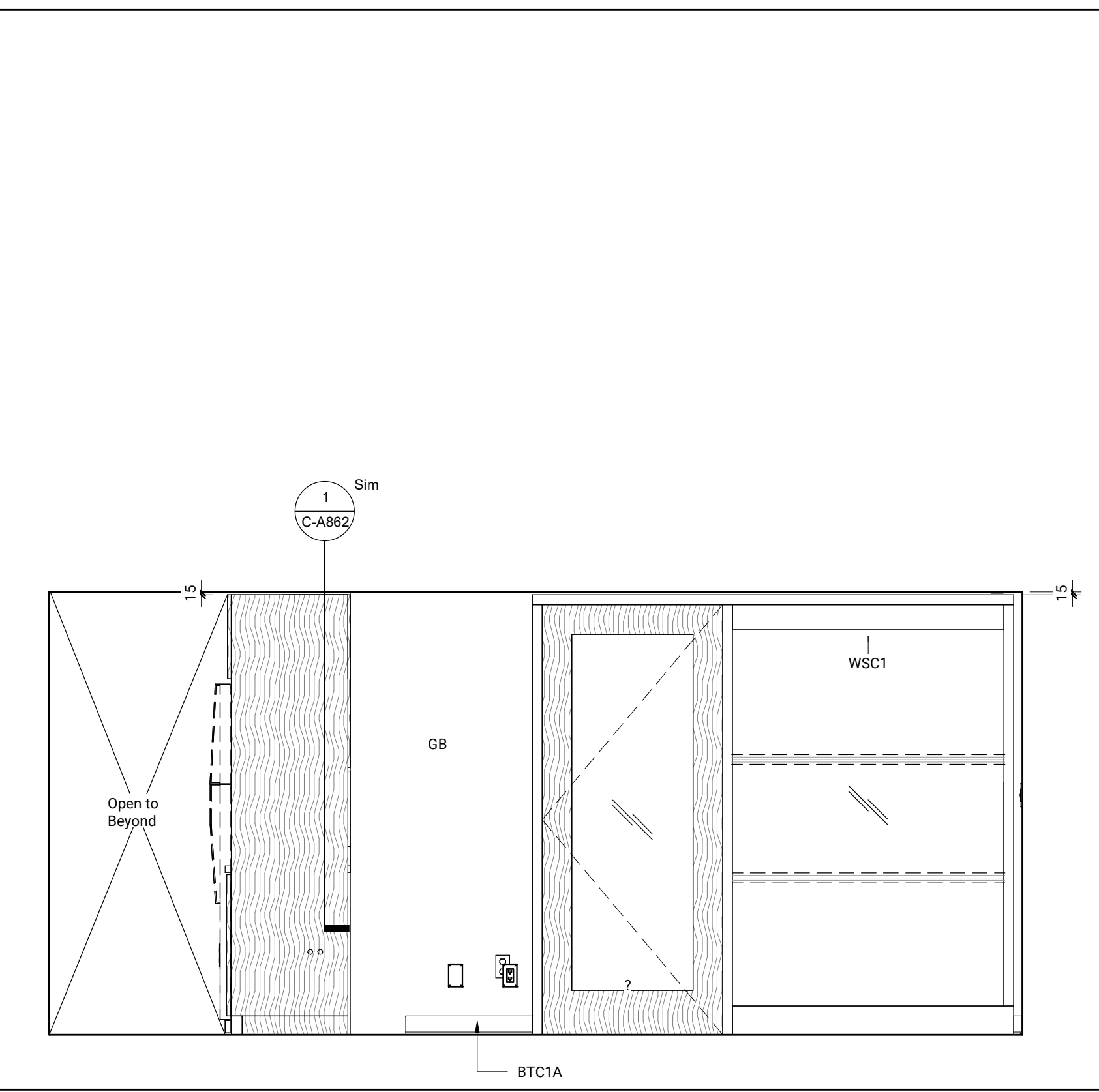
Interior Elevation North Corridor
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C-A804



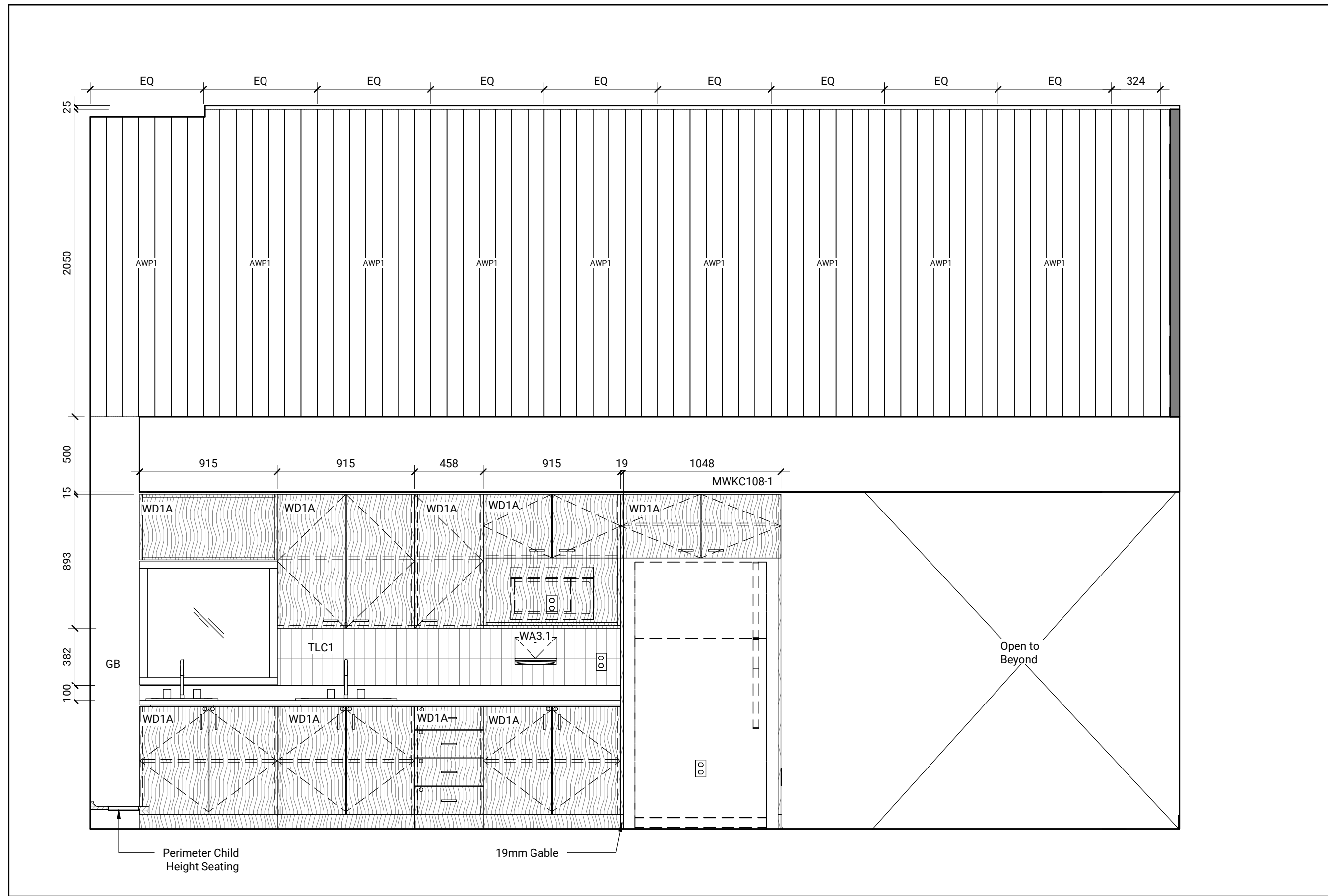
Interior Elevation Toddler Activity 1 South
1:25
C-A804



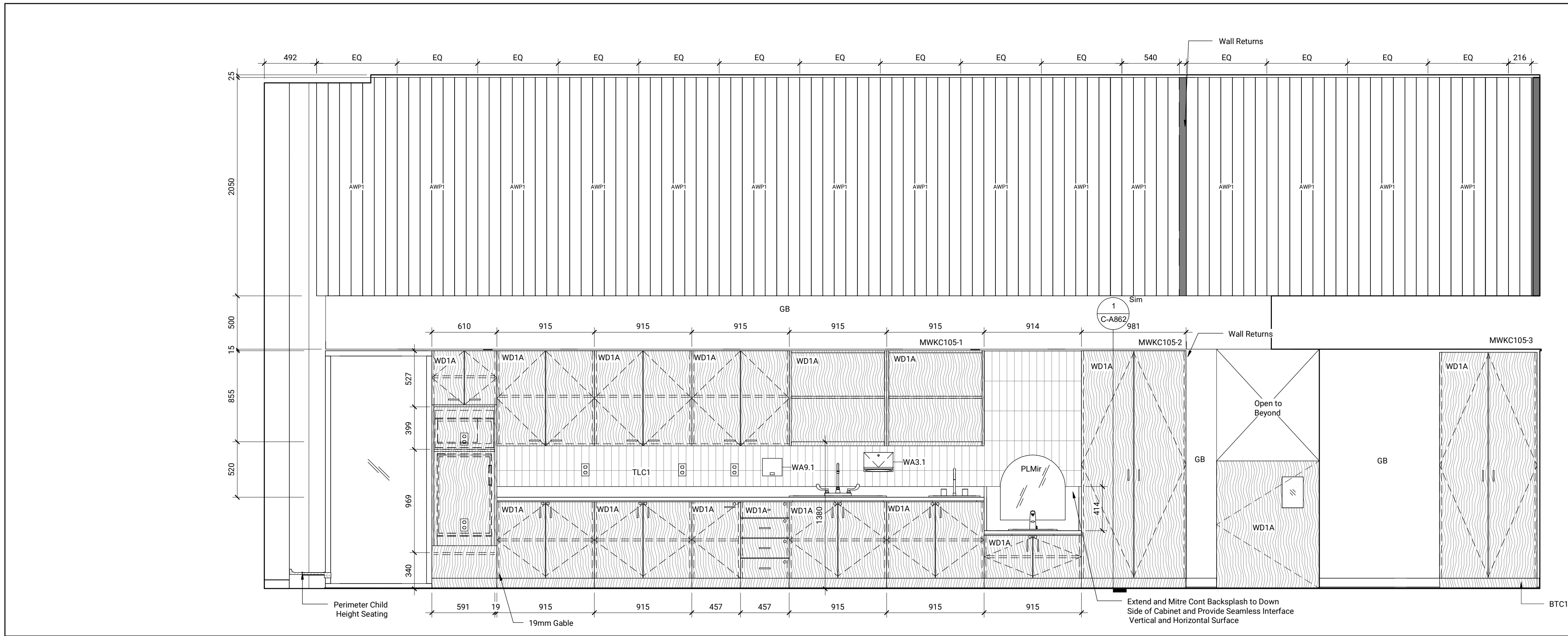
Interior Elevation Toddler Activity 1 East
1:25
C-A804



Interior Elevation Infant Activity North
1:25
C-A804



Interior Elevation Infant Activity East
1:25
C-A804



Interior Elevation Preschool Activity 1 North
1:25
C-A804

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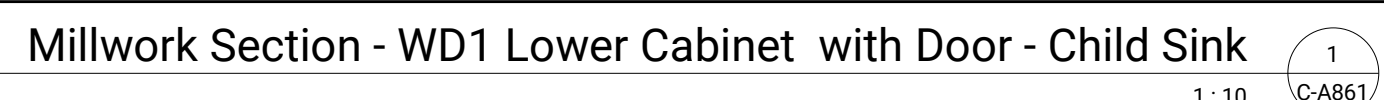
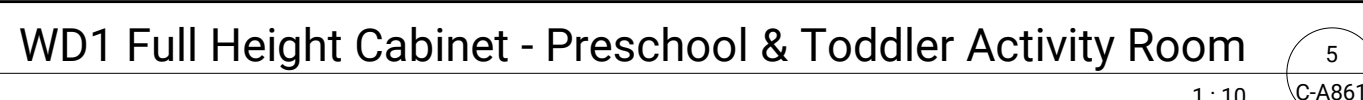
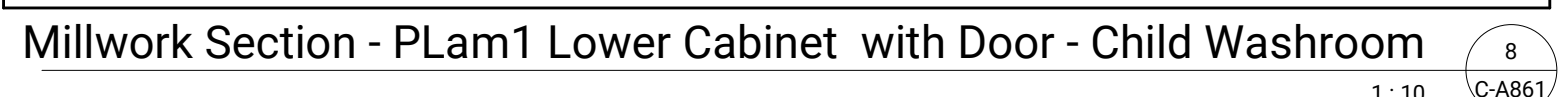
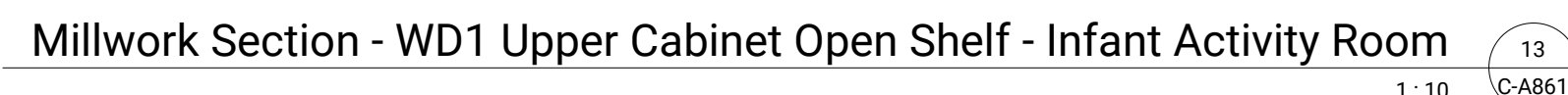
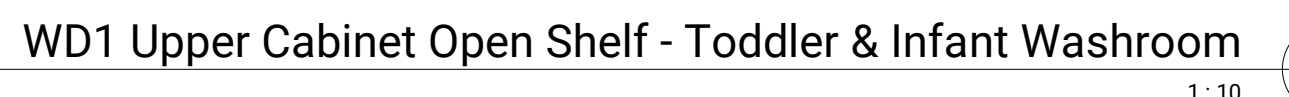
55 John Street
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210718-21025

Interior Elevations & Millwork

1:25

C-A804

Millwork Details



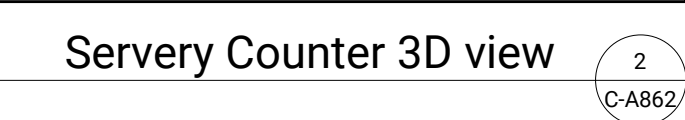
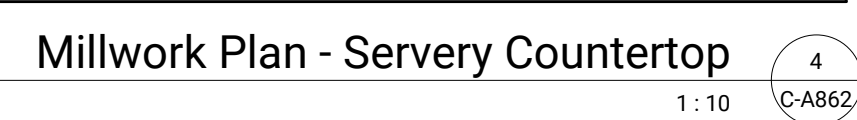
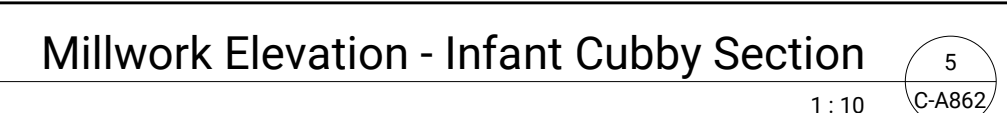
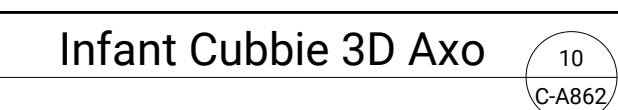
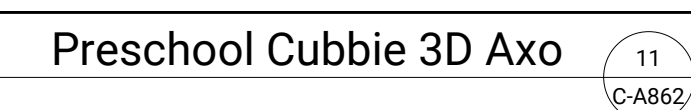
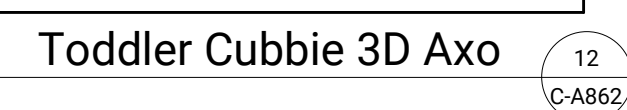
Toronto
Metro Hall Fire Station &
Early Years Child Care Centre
Renovation

55 John Street
Toronto ON

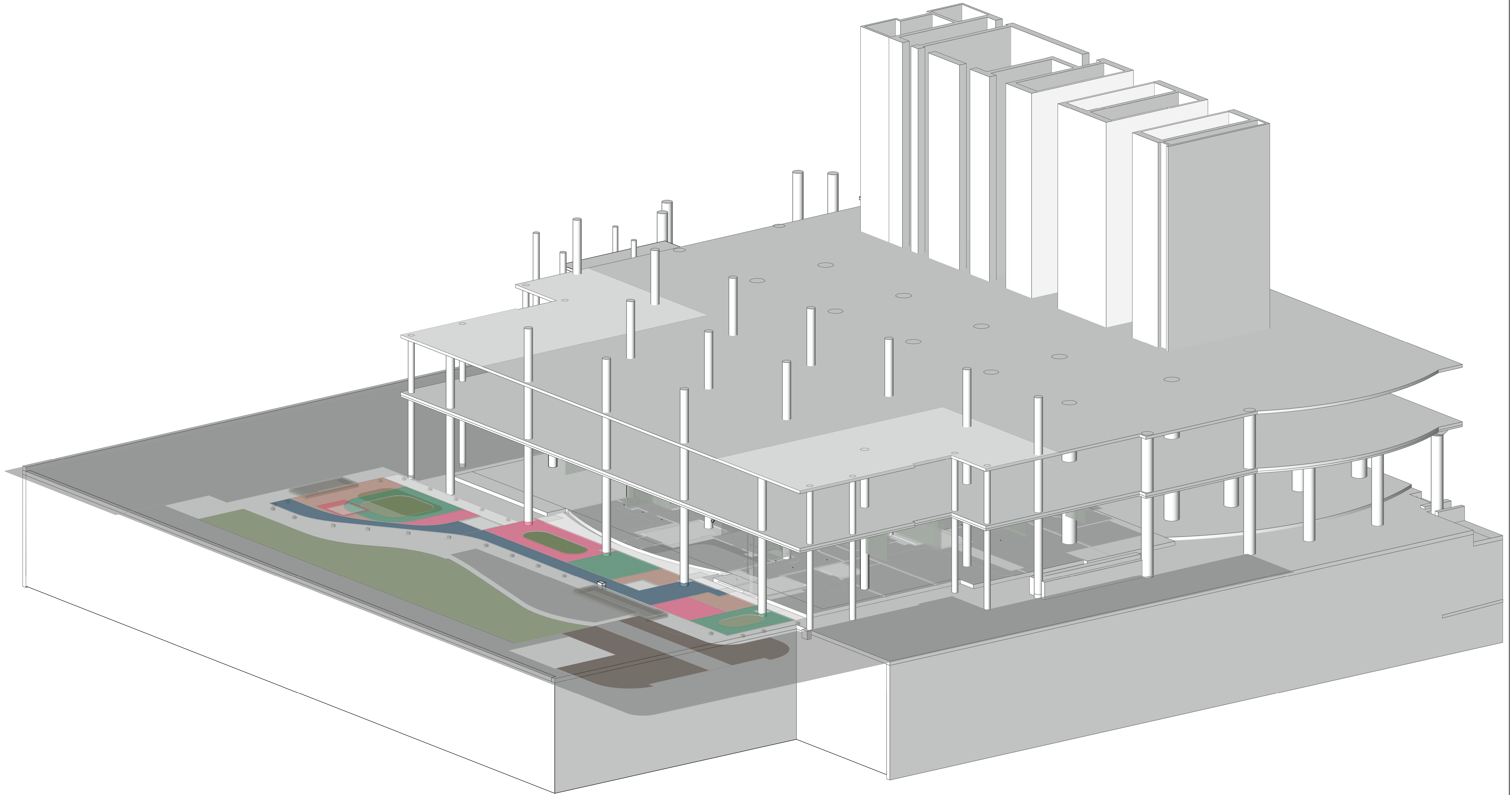
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Millwork Details

C-A861



STRUCTURAL DRAWING LIST (CHILD CARE CENTRE)	
S000	COVER
S100	GENERAL NOTES AND TYPICAL DETAILS
S101	GENERAL NOTES AND TYPICAL DETAILS
S102	GENERAL NOTES AND TYPICAL DETAILS
S201	EX LEVEL 1 PLAN
S202	EX LEVEL 2 PLAN
S401	ELEVATIONS
S800	SECTIONS AND DETAILS



Metro Hall Fire Station & Early Years Child Care Centre Renovation

TOR.124444.0002

ISSUED FOR 100% DESIGN REVIEW
55 John Street
Toronto ON
M5V 3C6

3D MODEL NOTE

STRUCTURAL ELEMENTS AND THEIR CONFIGURATION DETAILS ARE NOT PRESENTED IN THE 3D MODEL VIEW FOR TENDERING OR CONSTRUCTION PURPOSES AND ARE FOR INFORMATION ONLY.

[illegible]

NON-STRUCTURAL CONCRETE TOPPING ON CONCRETE SLABS

1. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR EXTENT, THICKNESS, AND DETAILS.
2. REINFORCE AS SHOWN ON STRUCTURAL OR ARCHITECTURAL PLANS AND SPECIFICATIONS, EXCEPT MINIMUM REINFORCING TO BE:
- | TOPPING THICKNESS | REINFORCING (TO BE PLACED AT MID-DEPTH) |
|-------------------|---|
| UP TO 75 mm | 1 SHEET OF WWR 152 X 152 - MW9.1 X MW9.1 LAP 300 |
| 75 mm | 1 SHEET OF WWR 152 X 152 - MW13.3 X MW13.3 LAP 300 OR 2 SHEETS OF WWR 152 X 152 - MW9.1 X MW9.1 LAP 300 |
| 100 mm | 2 SHEETS OF WWR 152 X 152 - MW9.1 X MW9.1 LAP 300 OR 10M @ 500 EACH WAY AT MID-DEPTH OF TOPPING |
| 125 mm OR GREATER | TEMPERATURE REINFORCING EACH WAY, SEE "SLAB NOTES". |
- FOR OTHER THICKNESSES, REINFORCEMENT TO BE PROPORTIONAL TO ABOVE.
3. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CONTROL JOINTS AND EXPANSION JOINTS, DETAILS, JOINT SPACING AND PATTERN, UNLESS NOTED OTHERWISE, PROVIDE 25 mm DEEP SAWCUTS OR TOOLED JOINTS, MINIMUM SPACING OF JOINTS IN EACH DIRECTION IS 3000 mm. IF SAWCUTS ARE USED, DO NOT CUT REINFORCING AND MAKE THE SAWCUTS WITHIN 12 HOURS OF POURING.
4. PROVIDE 12 mm GAP (MIN.) AT EDGES TO ALLOW FOR EXPANSION. SEE ALSO ARCHITECTURAL DETAILS AND REQUIREMENTS.
5. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR JOINT FILLERS AND SLIP SHEETS, IF REQUIRED.
6. FIELD REVIEW OF ARCHITECTURAL TOPPING DETAILS SUCH AS REINFORCING, JOINTS, JOINT SPACING, JOINT FILLER, SLIP SHEETS ETC. BY OTHERS, NOT BY RJC. CALL ARCHITECT TO SCHEDULE FIELD REVIEW OF THOSE ELEMENTS.

TYPICAL MECHANICAL / ELECTRICAL HOUSEKEEPING PAD & FLOATING SLAB

1. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION, EXTENT, AND THICKNESS OF HOUSEKEEPING PADS.
2. THIS DETAIL PROVIDES RESISTANCE TO HORIZONTAL (SLIDING) FORCES ONLY FROM EARTHQUAKE LOADING ON PAD AND EQUIPMENT. ADDITIONAL CONNECTIONS FOR UPLIFT FORCES FROM EQUIPMENT TO BE DESIGNED AND DETAILED BY SPECIALTY ENGINEER AND WILL REQUIRE ANCHORING THROUGH THE PAD AND INTO OR THROUGH THE STRUCTURAL SLAB. IN POST-TENSIONED FLOORS, LOCATE TENDONS BEFORE DRILLING HOLES.
3. MECHANICAL/ELECTRICAL HOUSE KEEPING PAD REINFORCED AS PER TABLE BELOW, CHAISED AT MID-DEPTH OF PAD.
- | PAD THICKNESS 't' | REINFORCEMENT |
|-------------------|----------------------------------|
| 50 | 152x152MM/18.7MM/18.7MMF 1 LAYER |
| 100 | 152x152MM/18.7MM/18.7MMF 1 LAYER |
| 150 | 10M @300 EW AT CENTRE |
| 200 | 10M @400 T&EW |
- FOR PAD SIZE UP TO 1500x1500 USE 4-C10M IN CORNERS MINIMUM DRILLED & EPOXY INTO SLAB FOR PAD SIZE LARGER THAN 1500x1500 USE C10M @750 ALONG PAD EDGE & 4-C10M IN CORNERS
- PAD THICKNESS 't' <= 100 100 < PAD THICKNESS 't' <= 200
- STRUCTURAL SLAB OR COMPOSITE DECK. IF STEEL DECK AND TOPPING, REPLACE C10M WITH 10mm Ø H.L.TI HD EMBEDDED 50mm INTO TOPPING C10M 10M HOOKED THREADED BAR.
- 200 MIN. FLOATING SLAB
- 15M @250 EW AT CENTRE U.O.C.
- BEARING PADS BY OTHERS
- REFER TO TYPICAL DETAIL FOR CURB
- BASE BUILDING STRUCTURE
- FLOATING SLAB DETAIL

DEMOLITION OF STRUCTURAL ELEMENTS

1. SEE TEMPORARY WORKS NOTES.
2. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS FORMING THE TENDER PACKAGE.
3. THE DRAWINGS ILLUSTRATE SCHEMATIC APPROACH TO THE TEMPORARY DEMOLITION OF EXISTING STRUCTURAL ELEMENTS AND THE REPAIR OF READ JONES CHRISTOFFERSEN LTD. WHERE STRUCTURAL ENGINEERING RESPONSIBILITY IS REQUIRED FOR THESE ELEMENTS, THIS SHALL BE PROVIDED BY SPECIALTY STRUCTURAL ENGINEERS. THE CONTRACTOR SHALL PREPARE ALL SUBMITTALS UNDER THEIR SEAL AND SIGNATURE AND ALSO PROVIDE ANY LETTERS REQUIRED BY BUILDING PERMIT AUTHORITIES.
4. THE CONTRACTOR SHALL DESIGN, PROVIDE, CONSTRUCT AND MAINTAIN, REMOVE AND ASSUME FULL AND SOLE RESPONSIBILITY FOR THE TEMPORARY WORKS.
5. SUBMIT SHOP DRAWINGS, DIAGRAMS AND DETAILS SHOWING SEQUENCE OF DEMOLITION WORK AND SUPPORTING STRUCTURES AND UNDERPINNING, SUBMIT CALCULATIONS TO THE CONSULTANT, DRAWINGS AND CALCULATIONS SUBMITTED SHALL BEAR SIGNATURE AND STAMP OF QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.
6. THE PROFESSIONAL ENGINEER EMPLOYED TO DESIGN THE TEMPORARY SHORING, BRACING, NEEDLING AND THE SAME ENGINEER SHALL ALSO BE EMPLOYED TO FULLY SUPERVISE THEIR INSTALLATION AND REMOVAL AND SHALL SUBMIT WEEKLY REPORTS TO THE CONSULTANT, OWNER AND OWNER REGARDING THIS WORK.
7. THE GENERAL CONTRACTOR MUST EXAMINE DRAWINGS OF ALL EQUIPMENTS AND COORDINATE THE STRUCTURAL DEMOLITION WORK TO ASSURE THAT THE ADOPTED SEQUENCE OF DEMOLITION WORK PROVIDES FOR SUBSEQUENT CONSTRUCTION OF ALL ELEMENTS OF THE PROJECT WITHOUT INTERFERENCE.
8. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE STRUCTURAL DEMOLITION WORK WITH OTHER DEMOLITION REQUIRED BY ARCHITECTURAL AND MECHANICAL DISCIPLINES AND CURRENT EDITION OF APPLICABLE DESIGN CODES AND ALL OTHER DESIGN REQUIREMENTS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
9. THE EXISTING STRUCTURE SHOWN ON THE DRAWINGS IS BASED ON THE ORIGINAL DRAWINGS AND LIMITED INFORMATION AVAILABLE AT THE TIME OF DESIGN. THE DEMOLITION OF EXISTING STRUCTURAL ELEMENTS OF ALL STRUCTURAL AND NON-STRUCTURAL ELEMENTS IN THE AREAS MARKED ON DRAWINGS AND AS INDICATED BY THE ARCHITECT.
10. PROTECTION:
- A. PREVENT MOVEMENT, SETTLEMENT OR DAMAGE OF ELEMENTS OF EXISTING BUILDING TO REMAIN, PROVIDE BRACING, SHORING AS REQUIRED, PROTECT ALL EXISTING SURFACES NOT TO BE RESTORED FROM DAMAGE DURING REMOVAL PROCEDURE. REMOVE OR PROTECT IN PLACE ALL SURFACES, MOUNTED OR PERMANENT ELECTRICAL FIXTURES AND ALL CONDUIT, FIXTURES, EQUIPMENT, ETC. NOT TO BE DEMOLISHED. UPON COMPLETION OF THE REPAIR WORK, REINSTALL ALL EXISTING EQUIPMENT AND FIXTURES DESIGNATED TO REMAIN, MAKE GOOD DAMAGE CAUSED BY DEMOLITION.
- B. TAKE PRECAUTIONS TO SUPPORT AND, IF SAFETY OF ELEMENTS NOT SLATED FOR DEMOLITION APPEARS TO BE ENDANGERED, CEASE OPERATIONS AND NOTIFY ENGINEER IMMEDIATELY.
- C. PREVENT DEBRIS FROM BLOCKING SURFACE DRAINAGE SYSTEM, MECHANICAL, AND ELECTRICAL SYSTEMS WHICH MUST REMAIN IN OPERATION.
11. INSPECTION:
- A. VISIT AND EXAMINE THE SITE AND NOTE ALL CHARACTERISTICS AND FEATURES AFFECTING THE WORK OF THIS SECTION.
- B. ENSURE ALL SERVICES, WHETHER BURIED, BUILT-IN OR EXPOSED ARE PROPERLY IDENTIFIED AS TO POSITION, TYPE OR SERVICE. SIZE, DIRECTION OF FLOW. SLABS MUST BE SCANNED AND NOTED FOR EMBEDDED SERVICES AT REPAIR LOCATIONS PRIOR TO UNDERSTANDING THE REPAIR WORK SUCH THAT THESE SERVICES CAN BE RELOCATED. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO ALL EMBEDDED SERVICES.
- C. INSPECT MATERIALS, EQUIPMENT, COMPONENTS TO BE RE-USED OR TURNED OVER TO THE OWNER, NOTE THEIR CONDITION AND ADVISE ARCHITECT IN WRITING OF ANY DEFECTS OR CONDITIONS WHICH WOULD AFFECT THEIR REMOVAL AND RE-USE.
12. PREPARATION:
- A. DO NOT DISRUPT ACTIVE OR ENERGIZED UTILITIES DESIGNATED TO REMAIN UNDISTURBED.
- B. RELOCATE EXISTING SERVICES PRIOR TO START OF WORK AS REQUIRED, BUT DO NOT AFFECT THE SERVICES OF AREAS NOT UNDER CONSTRUCTION OR ESSENTIAL TO THE ONGOING OPERATION OF THE BUILDING.
- C. PROTECT ALL SURFACE-MOUNTED FIXTURES FROM DAMAGE.
- D. IN ALL CASES, EXERCISE ALL REASONABLE CARE DURING REMOVAL OPERATIONS TO AVOID DAMAGING ITEMS TO BE SALVAGED, RE-USED, OR ITEMS THAT ARE NOT PART OF THE SCOPE OF WORK.
13. DEMOLITION, SALVAGE AND DISPOSAL:
- A. DEMOLISH PARTS OF STRUCTURE TO PERMIT REMEDIAL WORK AS INDICATED.
- B. REMOVE EXISTING EQUIPMENT, SERVICES, AND OBSTACLES WHERE REQUIRED FOR REFINISHING OR REPAIR OF EXISTING SURFACES, AND REPLACE AS WORK PROGRESSES.
- C. AT END OF EACH DAY'S WORK, LEAVE WORK IN SAFE CONDITION SO THAT NO PART IS IN DANGER OF CAUSING INJURY OR DAMAGE.
- D. DEMOLISH TO MINIMIZE DUSTING, KEEP DUSTY MATERIALS WETTED, WHERE POSSIBLE.
- E. DEMOLISH CONCRETE IN SMALL SECTIONS, CAREFULLY REMOVE AND LOWER HEAVY OR LARGE OBJECTS.
- F. THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE SURFACE OF SOUND CONCRETE WHICH IS TO REMAIN THROUGH THE REMOVAL OPERATION, WHERE ANY SUCH DAMAGE IS DONE TO SOUND MATERIAL, IT IS TO BE REPAIRED BY THE CONTRACTOR AT THEIR OWN EXPENSE TO THE APPROVAL OF THE ENGINEER.
- G. WHERE NEW CONCRETE IS TO BE APPLIED TO EXISTING CONCRETE, THE SURFACE IS TO BE LEFT CLEAN AND SOUND.
- H. PROVIDE SHORING TO SUPPORT THE SLAB WHEN REMOVALS REDUCE ITS LOAD-CARRYING CAPACITY, AS DIRECTED BY THE ENGINEER. NO PAYMENT WILL BE MADE FOR SUCH SHORING AS IT IS TO BE INCLUDED IN THE COST OF REPAIR AS OUTLINED IN THESE DOCUMENTS.
- I. DEMOLITION PROCEDURES AND EQUIPMENT SHALL MEET ALL APPLICABLE NOISE-CONTROL BY-LAWS AND REGULATIONS OF THE LOCATION OF THE WORK.
- J. REFER TO TEMPORARY WORKS AND RENOVATION NOTES FOR ADDITIONAL DRAWINGS TO BE PROVIDED TO THE CONSULTANT OF A SPECIALTY STRUCTURAL ENGINEER, FOR THOSE CONNECTIONS AND COMPONENTS TO BE REMOVED BY THE FABRICATOR, THIS ENGINEER OR THEIR REPRESENTATIVE SHALL VISIT THE SITE TO REVIEW IN PLACE THE CONNECTIONS AND COMPONENTS DESIGNED BY THIS ENGINEER TO SATISFY THEMSELVES THAT THESE CONNECTIONS AND COMPONENTS COMPLY WITH THEIR DESIGN AND THE SHOP DRAWINGS. THIS DESIGN SHALL PROVIDE A LETTER TO RJC TO THIS EFFECT. THIS ENGINEER SHALL ALSO PROVIDE SEALED SKETCHES FOR ALL FIELD MODIFICATIONS MADE TO THEIR DESIGN.

CONCRETE REINFORCEMENT

1. REINFORCEMENT SHALL CONFORM TO THE FOLLOWING STANDARDS:
- | | |
|---|-------------------------|
| A. 10M AND LARGER (U.N.O.) | - CSA G30-18 GRADE 400R |
| B. WELDED WIRE REINFORCEMENT | - ASTM A1064M |
| C. ALL REINFORCING THAT WILL BE WELDED OR IS PART OF THE SEISMIC RESISTING ELEMENTS: REINFORCING FOR SHEAR WALLS, HEADERS AND ZONES (INCLUDING ZONE TIES AND HEADER TIES/STIRRUPS) AND MOMENT FRAME COLUMNS AND BEAMS (INCLUDING COLUMN TIES AND BEAM STIRRUPS) | - CSA G30-18 GRADE 400W |
| D. REINFORCING DESIGNATED AS 500M GRADE OR 500 MPa | - CSA G30-18 GRADE 500W |
| E. PRESTRESSING STRANDS | - CSA G279 |
- (NOTE: CSA G30-18 W GRADES MAY BE SUBSTITUTED FOR CSA G30-18 R GRADES)
2. SEE PLAN AND DETAILS FOR ELEMENTS DESIGNATED WITH GRADE 500W REBAR. MARK ALL GRADE 500W REBAR WITH ORANGE PAINT AT BOTH ENDS. REBAR THAT IS NOT CLEARLY IDENTIFIABLE WILL BE REJECTED.
3. REINFORCING BARS WITH 5 X 60 MECHANICAL ANCHOR HEADS TO HAVE A CLEAR SPACING BETWEEN PARALLEL BARS OF NOT LESS THAN 4x, WITHIN THE SAME LAYER AND BETWEEN LAYERS.
4. DO NOT SUBSTITUTE DEFORMED WIRE FOR REINFORCING BARS WITHOUT PRIOR APPROVAL OF THE RJC.
5. SUPPORT REINFORCING WITH CHAIRS, ACCESSORIES, OR REINFORCING BARS AS REQUIRED. BARS USED AS SUPPORT BARS SHALL BE CONSIDERED AS ACCESSORIES.
6. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN CONCRETE COVER AS SPECIFIED. ALL SUPPORTS AND BARS MUST BE TIED TOGETHER TO MAINTAIN REINFORCING STEEL SECURELY IN PLACE DURING CONCRETE PLACEMENT.
7. IN SUSPENDED PARKING SLABS:
- A. BAR SUPPORT CHAIRS SHALL BE PLASTIC, PLASTIC COATED, OR PRECAST CONCRETE BLOCKS EQUAL IN QUALITY TO THE CONCRETE SPECIFIED FOR THE STRUCTURE.
8. TESTING OF REINFORCING STEEL SHALL CONFORM TO THE SPECIFICATIONS.

NON-STRUCTURAL ELEMENTS

1. "NON-STRUCTURAL" OR "SECONDARY STRUCTURAL" ELEMENTS ARE NOT PART OF THE STRUCTURAL DESIGN SHOWN ON THESE DRAWINGS. SUCH ELEMENTS ARE DESIGNED, DETAILED AND REVIEWED IN THE FIELD BY OTHERS. THEY APPEAR ON DRAWINGS OTHER THAN THESE DRAWINGS OF READ JONES CHRISTOFFERSEN LTD. WHERE STRUCTURAL ENGINEERING RESPONSIBILITY IS REQUIRED FOR THESE ELEMENTS, THIS SHALL BE PROVIDED BY SPECIALTY STRUCTURAL ENGINEERS. THE CONTRACTOR SHALL PREPARE ALL SUBMITTALS UNDER THEIR SEAL AND SIGNATURE AND ALSO PROVIDE ANY LETTERS REQUIRED BY BUILDING PERMIT AUTHORITIES.
2. EXAMPLES OF NON-STRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
- A. ARCHITECTURAL COMPONENTS SUCH AS GUARDRAILS, HANDRAILS, FLAG POSTS, CANOPIES, CEILINGS, MILLWORK, ETC.
- B. LANDSCAPE ELEMENTS SUCH AS BENCHES, LIGHT POSTS, PLANTERS, ETC.
- C. CLADDING, GLAZING, WINDOW MULLIONS, INTERIOR STUD WALLS AND EXTERIOR STUD WALLS.
- D. ARCHITECTURAL PRECAST, PRECAST CLADDING, SKYLIGHTS.
- E. MECHANICAL AND ELECTRICAL EQUIPMENT, COMPONENTS, AND THEIR ATTACHMENT DETAILS.
- F. WINDOW WASHING EQUIPMENT AND ITS ATTACHMENTS.
- G. FALL PROTECTION AND FALL ARREST SYSTEMS AND THEIR ATTACHMENTS.
- H. ESCALATORS, ELEVATORS, AND CONVEYING SYSTEMS.
- I. GLASS BLOCK AND ITS ATTACHMENTS.
- K. BRICK OR BLOCK VENEERS AND THEIR ATTACHMENTS.
- L. DESIGN AND FIELD REVIEW OF SEISMIC RESTRAINT FOR SECONDARY STRUCTURAL ELEMENTS AND OPERATIONAL AND FUNCTIONAL COMPONENTS INCLUDING MECHANICAL AND ELECTRICAL EQUIPMENT.
- M. NON-STRUCTURAL CONCRETE TOPPING.
- N. DESIGN AND FIELD REVIEW OF NON-LOAD BEARING MASONRY.
3. DESIGNS PRODUCED BY THE SPECIALTY ENGINEER SHALL CONSIDER STRENGTH, STABILITY, SERVICEABILITY AND INTEGRITY REQUIREMENTS UNDER GRAVITY AND SEISMIC LOADING AND THE REQUIREMENTS FOR PREVAILING ENVIRONMENTAL AND EXPOSURE CONDITIONS. ALL DESIGNS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF APPLICABLE DESIGN CODES AND ALL OTHER DESIGN REQUIREMENTS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
4. CONTRACTOR SHALL COORDINATE THE DESIGN OF ALL NON-STRUCTURAL ELEMENTS DESIGNED BY ONE OR MORE SPECIALTY ENGINEERS AND CONNECTING TO ELEMENTS DESIGNED BY OTHER SPECIALTY ENGINEERS TO ENSURE THE STRENGTH, STABILITY, SERVICEABILITY AND INTEGRITY OF THE FINAL CONSTRUCTION.
5. SHOP DRAWINGS FOR NON-STRUCTURAL ELEMENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM SHALL BE SUBMITTED TO READ JONES CHRISTOFFERSEN LTD. INDICATE CLEARLY THE METHOD OF ATTACHMENT AND MAGNITUDE OF ALL FORCES TO BE APPLIED AND FACTORED) THAT THE STRUCTURE MUST WITHSTAND. THESE DRAWINGS WILL BE REVIEWED ONLY FOR THE EFFECT OF THE ELEMENT ON THE PRIMARY STRUCTURAL SYSTEM.

RENOVATIONS

1. THE CONTRACT DOCUMENTS ARE BASED ON ASSUMED AS-BUILT DIMENSIONS FOR THE EXISTING BUILDING STRUCTURE AND ASSUMPTIONS IN ACCORDANCE WITH DETAILING AND BRACING PRACTICE. THESE ASSUMPTIONS MAY VARY FROM THE ACTUAL ON-SITE CONDITIONS. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE CONSULTANT OF ANY ACTUAL VARIATIONS FROM THE ASSUMED CONDITIONS.
2. MINOR MODIFICATIONS WILL BE REQUIRED TO THE WORK INDICATED ON THESE DRAWINGS TO REFLECT ACTUAL SITE CONDITIONS.
3. THE CONTRACTOR SHALL COMPLETE THIS SITE REVIEW OF CRITICAL "TIE-IN" DIMENSIONS AND CONFIRM ALL DIMENSIONS TO ENSURE PROPER FIT OF NEW WORK TO EXISTING. REPORT ANY DISCREPANCIES TO RJC PRIOR TO STARTING WORK.
4. PRIOR TO FABRICATION OF ANY STRUCTURAL MEMBERS, THE CONTRACTOR SHALL COMPLETE THIS SITE REVIEW OF CRITICAL "TIE-IN" DIMENSIONS AND CONFIRM ALL DIMENSIONS TO ENSURE PROPER FIT OF NEW WORK TO EXISTING. REPORT ANY DISCREPANCIES TO RJC PRIOR TO STARTING WORK.
5. COMMENCEMENT OF CONSTRUCTION OR ANY PART THEREOF CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND MEANS DIMENSIONS AND ELEVATIONS HAVE BEEN CONSIDERED, VERIFIED AND ARE ACCEPTABLE.
6. ANY OPENINGS THAT ARE NOT SHOWN OR INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED TO RJC FOR REVIEW. THESE OPENINGS MAY NOT BE ALLOWED, MAY HAVE TO BE MOVED, OR MAY REQUIRE ADDITIONAL STRUCTURAL WORK AND DETAILING. DO NOT PROCEED WITH THESE OPENINGS WITHOUT WRITTEN PERMISSION FROM RJC.
7. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, THE CORING OR CUTTING OF OPENINGS AND HOLES SHOWN ON THE STRUCTURAL DRAWINGS THROUGH THE EXISTING STRUCTURE SHALL NOT CUT ANY REINFORCING BARS. THE CONTRACTOR SHALL LOCATE THE POSITION OF EXISTING REINFORCING BARS IN THE VICINITY OF THE CORING OR CUTTING. THE CONTRACTOR SHALL LOCATE THE CORING OR CUTTING AND SLEEVES SHALL BE LOCATED TO AVOID CUTTING OF REINFORCING BARS. WHERE THIS IS NOT POSSIBLE, IT SHALL BE REPORTED TO RJC FOR REVIEW.
8. NEW OPENINGS TO BE CUT THROUGH EXISTING FLOOR SLAB OR WALLS SHALL BE CLEARLY MARKED OUT BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY RJC ONCE THE MARKING OUT HAS BEEN COMPLETED SO THAT RJC CAN REVIEW THE PROPOSED LOCATIONS OF ALL NEW OPENINGS. DO NOT PROCEED WITH CUTTING OF NEW OPENINGS WITHOUT THE APPROVAL OF RJC.
9. UNLESS NOTED OTHERWISE ON THE DRAWINGS NEW STRAIGHT-SIDED OPENINGS THROUGH EXISTING SLABS AND WALLS SHALL BE SAWCUT WITH NO OVERCUTS. USE CORED HOLES AT THE CORNERS. JACKHAMMERING SHALL NOT BE PERMITTED. REFER TO THE DETAILS AND PROCEDURES INDICATED ON THE STRUCTURAL DRAWINGS FOR THE NEW OPENINGS. ALTERNATES TO THE ABOVE PROCEDURES MUST BE REVIEWED BY RJC PRIOR TO THE START OF DEMOLITION OR CONSTRUCTION.
10. UNLESS NOTED OTHERWISE AT ALL LOCATIONS WHERE NEW CONCRETE WILL BE IN CONTACT WITH EXISTING CONCRETE SURFACES, THE EXISTING CONCRETE SURFACE IS TO BE COMPLETELY CLEANED AND ROUGHENED BY HYDRODEMOLITION, BRUSH HAMMERING, (OR APPROVED EQUIVALENT) TO AN AMPLITUDE OF 6 mm.
11. CONNECTIONS FOR NEW STRUCTURAL STEEL FRAMING TO EXISTING STRUCTURAL STEEL SHALL BE ACHIEVED THROUGH WELDED CONNECTIONS UNLESS OTHERWISE NOTED. WELDING OF NEW STEEL TO "OLD" STEEL (STEEL PRODUCED IN EARLY 20TH CENTURY) MAY REQUIRE MODIFICATIONS TO THE STANDARD WELDING PROCEDURES. PROCEDURES OF WELDING NEW STEEL TO "OLD" STEEL SHALL BE PREPARED BY THE CONTRACTOR'S SPECIALTY STRUCTURAL ENGINEER AND REVIEWED AND APPROVED BY RJC. CONTRACTOR TO ALSO PROVIDE A REPORT FROM MATERIALS TESTING COMPANY COMMENTING ON CHEMICAL COMPOSITION AND WELDABILITY OF OLD STEEL.
12. CONTRACTOR TO ENSURE THAT UNDERGROUND OR IN-SLAB SERVICES ARE NOT DAMAGED THROUGH DEMOLITION, SAWCUTTING, HOLES, AUGURING, OR OTHER CONSTRUCTION ACTIVITIES. SEE SPECIFICATION FOR TESTING/LOCATING REQUIREMENTS.
13. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND ABOUT THE JOB SITE DURING CONSTRUCTION, AND THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES, FORMWORK, FALSEWORK, SHORING, BRACING, ETC. REQUIRED TO COMPLETE THE WORK (SUBMIT SHORING DRAWINGS SEALED BY A SPECIALTY STRUCTURAL ENGINEER).
14. DRILL AND SITE MEASURE BOLT HOLES IN EXISTING STRUCTURE PRIOR TO FABRICATING STEEL CONNECTION PLATES. BOLT HOLES MAY HAVE TO BE MOVED FROM WHAT IS SHOWN ON THE DRAWINGS TO AVOID CUTTING EXISTING REINFORCING OR TO AVOID OTHER SITE CONDITIONS. SITE MODIFICATION OF STEEL CONNECTION PLATES WILL NOT BE ACCEPTED WITHOUT THE PRIOR APPROVAL OF RJC.

DELEGATED DESIGN OF PRIMARY STRUCTURE COMPONENTS

1. THE CONTRACTOR SHALL ENGAGE A SPECIALTY ENGINEER FOR THE DESIGN OF REQUIRED STRUCTURAL ELEMENTS AND REPAIRS OF EXISTING STRUCTURAL CONNECTIONS NOT INDICATED IN THE DRAWINGS.
2. STRUCTURAL COMPONENTS REQUIRING DESIGN COMPLETED BY THE CONTRACTOR'S SPECIALTY ENGINEER INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- A. STRUCTURAL STEEL CONNECTIONS
- B. STEEL DECK
- C. OPEN WEB STEEL JOISTS AND JOIST GIRDERS
- D. COLD FORMED LIGHTWEIGHT STEEL FRAMING
- E. MISCELLANEOUS STEEL
- F. MORTAR, GROUT AND CONCRETE MIX DESIGNS
- G. PRECAST SLABS, BEAMS, GIRDERS, COLUMNS, INCLUDING CONNECTIONS
- H. POST-TENSIONED SYSTEMS (SEE P17 GENERAL NOTES)
- I. PRE-FABRICATED WOOD I-JOISTS
- J. GLUE-LAMINATED AND COMPOSITE LUMBER MEMBERS INCLUDING WOOD-TO-WOOD CONNECTIONS
3. DESIGNS PRODUCED BY THE SPECIALTY ENGINEER SHALL CONSIDER STRENGTH, STABILITY, SERVICEABILITY AND INTEGRITY REQUIREMENTS UNDER GRAVITY AND SEISMIC LOADING AND THE REQUIREMENTS FOR PREVAILING ENVIRONMENTAL AND EXPOSURE CONDITIONS. ALL DESIGNS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF APPLICABLE DESIGN CODES AND ALL OTHER DESIGN REQUIREMENTS INDICATED IN THE DRAWINGS AND SPECIFICATIONS. DESIGNS SHALL INCLUDE SUITABLE LETTERS OF ASSURANCE.
4. DESIGN OF COMPONENTS AND CONNECTIONS THAT RELY ON SUPPORT BY THE PRIMARY STRUCTURE DESIGNED BY RJC OR COMPONENTS DESIGNED BY OTHER SPECIALTY ENGINEERS MUST CLEARLY INDICATE THE MEANS AND METHOD OF ATTACHMENT AND THE MAGNITUDE OF ALL FORCES (SPECIFIED AND FACTORED) THAT THE PRIMARY STRUCTURE MUST WITHSTAND. REVIEW BY THE STRUCTURAL ENGINEER OF RECORD MAY REQUIRE REVISION TO THE METHOD OF CONNECTION WITH REDESIGN BY THE SPECIALTY ENGINEER.
5. EQUALITY ENGINEERS ENGAGED BY THE CONTRACTOR SHALL BE REGISTERED AS PROFESSIONAL ENGINEERS IN THE PROVINCE OF BRITISH COLUMBIA, ALBERTA, ONTARIO AND ALL SUBMITTALS OR SHOP DRAWINGS PREPARED BY OR UNDER THE SUPERVISION OF THIS ENGINEER SHALL BE SIGNED. UNSEALED PROGRESS DOCUMENTS WILL BE REJECTED BY RJC WITHOUT REVIEW UNLESS PRIOR AGREEMENT IS OBTAINED.
6. WHERE STRUCTURAL COMPONENTS OR CONNECTIONS DESIGNED BY THE SPECIALTY ENGINEER ARE TO BE FABRICATED IN A DIFFERENT JURISDICTION, THE SPECIALTY ENGINEER SHALL SUBMIT A SEALED LETTER CONFIRMING PROOF OF PROFESSIONAL REGISTRATION IN THE JURISDICTION OF FABRICATION.
7. THE SPECIALTY ENGINEER RESPONSIBLE FOR THE DESIGN IS ALSO RESPONSIBLE FOR REVIEW OF FABRICATION, INSTALLATION AND APPLICABLE TESTING REPORTS, UPON COMPLETION OF THE WORK, SUBMIT SCHEDULE S-S-8S AND S-C-1 TO THE ENGINEER OF RECORD.
8. REFER TO THE DRAWINGS AND SPECIFICATIONS FOR OTHER REQUIREMENTS.

SHOP DRAWINGS

1. AS PART OF OUR CONSTRUCTION PHASE SERVICES, RJC WILL REVIEW SHOP DRAWINGS PERTAINING TO WORK SHOWN ON RJC'S DRAWINGS BY MEANS OF APPROPRIATE INFORMATION SAMPLING PROCEDURES AND COMMENT ON THE ACCURACY WITH WHICH THE CONTRACTOR PREPARED THE DRAWINGS.
2. REVIEW OF SHOP DRAWINGS IS FOR THE SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT AND IS NOT AN APPROVAL OF THE DETAILED DESIGN INHERENT IN THE SHOP DRAWINGS. RESPONSIBILITY FOR THE DESIGN OF THE CONTRACTOR SUBMITTING THEM. THIS REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS AND FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DRAWINGS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INFORMATION PERTAINING TO THE FABRICATION PROCESS, METHODS FOR CONSTRUCTION AND INSTALLATION, AND FOR CO-ORDINATION OF THE WORK OF ALL SUB-TRADES.
3. FOR SPECIFIC SHOP DRAWING SUBMITTAL REQUIREMENTS, SEE APPROPRIATE MATERIAL SECTIONS AND THE SPECIFICATIONS.
4. SHOP DRAWINGS SHALL BE COMPLETE AND INCLUDE ANY REQUIRED SEALS FROM A PROFESSIONAL ENGINEER REGISTERED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED PRIOR TO SUBMISSION.
5. ALL SHOP DRAWINGS COMPRISING A REVISION SUBMISSION SHALL INDICATE THE REVISED CONTENT BY MEANS OF CLOUDING OR OTHER SUITABLE MARKINGS.


TEMPORARY WORKS

1. THE CONTRACTOR SHALL DESIGN, PROVIDE, ERECT, MAINTAIN, REMOVE AND ASSUME FULL AND SOLE RESPONSIBILITY FOR ALL TEMPORARY WORKS REQUIRED FOR THE SAFE AND COMPLETE EXECUTION OF THE WORKS.
2. IN THE EXECUTION OF THE TEMPORARY WORKS AND FOR THE DURATION OF THE CONTRACT, THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR ALL LIKELY CONSTRUCTION LOADING AND PROVIDE SUFFICIENT BRACING AND PROPS TO KEEP THE WORKS IN PLUMB AND ALIGNMENT AND FREE FROM EXCESSIVE DEFLECTION.
3. ACCESS OF HEAVY CONSTRUCTION EQUIPMENT AND ACCUMULATION OF CONSTRUCTION MATERIALS ON THE FLOORS ARE NOT PERMITTED, UNLESS SUCH HAVE BEEN CATERED FOR IN THE CONTRACTOR'S TEMPORARY WORK DESIGN TO THE SATISFACTION OF THE ARCHITECT & ENGINEER.
4. COSTS OF ALL TEMPORARY WORKS ARE DEEMED TO HAVE BEEN INCLUDED IN THE CONTRACT PRICE.
5. SUBMIT SHOP DRAWINGS FOR ALL TEMPORARY WORKS FOR REVIEW BEFORE FABRICATION COMMENCES. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED AND LICENSED TO PRACTICE BY THE PROFESSIONAL ENGINEERING ASSOCIATION HAVING JURISDICTION IN THE AREA WHERE THE STRUCTURE IS TO BE BUILT.
6. ANY CONSTRUCTION SEQUENCES SHOWN ON THE DRAWINGS SHALL BE PART OF TEMPORARY WORKS AND ARE FOR THE CONTRACTOR'S CONSIDERATION ONLY. THE CONTRACTOR IS AT LIBERTY TO USE ANY OTHER SEQUENCE AS THE CONTRACTOR DEEMS APPROPRIATE, BUT AT NO TIME SHALL THE SAFETY AND INTEGRITY OF THE WORKS AND THE STRUCTURE BE COMPROMISED. IF THE CONTRACTOR ADOPTS THE SUGGESTED SEQUENCE, SUCH SEQUENCE SHALL BE DEEMED AS THE CONTRACTOR'S OWN SELECTION OF METHOD, AND THE CONTRACTOR SHALL ASSUME FULL AND SOLE RESPONSIBILITY FOR IT, AS STATED IN (1) ABOVE. THE CONTRACTOR SHALL INFORM THE ARCHITECT IF THE CONTRACTOR WISHES TO DEViate FROM ANY SUGGESTED SEQUENCE.
7. SEE ALSO CONCRETE FORMWORK STRIPPING AND SHORING NOTES.

DRAWINGS

1. THIS SET OF DRAWINGS SHOWS THE COMPLETED PROJECT. THE DRAWINGS DO NOT SHOW COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE CONSTRUCTION, THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES, FORMWORK, FALSE WORK, SHORING, ETC. REQUIRED TO COMPLETE THE PROJECT.
2. THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION" IN THE REVISIONS COLUMN. BY READ JONES CHRISTOFFERSEN LTD. THE DRAWINGS SHALL NOT BE USED FOR PRICING, COSTING, OR TENDER UNLESS SO INDICATED IN THE REVISION COLUMN. PRICING OR TENDER DRAWINGS ARE NOT COMPLETE AND ANY PRICES BASED ON PRICES OR COSTING DRAWINGS MUST INCLUDE ALLOWANCES FOR THIS PROJECT.
3. THE INFORMATION ON THESE DRAWINGS SHALL NOT BE USED FOR ANY OTHER PROJECT OR WORK. THE INFORMATION ON THESE DRAWINGS APPLIES SOLELY TO THIS PROJECT.

GENERAL

1. SECTION MARK SHOWN THUS  MEANS SECTION 4 ON DRAWING S-3.
2. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, NAILERS, INSERTS, ETC., TO BE ENCASED IN CONCRETE.
3. SEE ARCHITECTURAL DRAWINGS FOR FLOOR AND ROOF ELEVATIONS, RECESSES, DRAINAGE SLOPES, ETC.
4. THE GENERAL CONTRACTOR SHALL REVIEW ALL THE DRAWINGS AND CHECK DIMENSIONS BEFORE CONSTRUCTION. REPORT DISCREPANCIES BETWEEN STRUCTURAL AND OTHER DISCIPLINES DRAWINGS FOR CLARIFICATION.
5. CONCRETE WORK SHALL CONFORM TO CSA A23.1, CSA A23.2, CSA A23.3 AND REFERENCED DOCUMENTS.
6. STRUCTURAL STEEL WORK SHALL CONFORM TO CSA S16 AND REFERENCED DOCUMENTS.
7. FIRE RESISTANCE RATINGS SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PRECISE LOCATION OF REQUIRED FIRE RESISTANCE RATINGS.
8. DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS WITHOUT WRITTEN PERMISSION OF RJC.
9. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND LANDSCAPE DRAWINGS FOR LOCATIONS, CONFIGURATIONS, EXTENT, AND SIZES OF ALL CURBS, UPSTANDS, DOWNTURNS, AND FOR OPENINGS THROUGH FLOORS AND WALLS FOR DUCTS, CONDUIT AND PIPING. PROVIDE FOR DEFINITIONS:
10. DEFINITIONS:
- A. RJC: READ JONES CHRISTOFFERSEN OR ITS REPRESENTATIVE.
- B. SPECIALTY STRUCTURAL ENGINEER: A STRUCTURAL ENGINEER REGISTERED AND LICENSED TO PRACTICE BY THE PROFESSIONAL ENGINEERING ASSOCIATION HAVING JURISDICTION IN THE AREA WHERE THE STRUCTURE IS TO BE BUILT AND WHO IS RESPONSIBLE FOR THE DESIGN AND FIELD REVIEW OF:

- STRUCTURAL ELEMENTS DESIGNED BY THE CONTRACTOR OR SUBCONTRACTORS, SUCH AS OPEN WEB STEEL JOISTS, PRECAST DOUBLE TEES, PRECAST PLANKS, STRUCTURAL SLAB CONNECTIONS, LIGHT WOOD FRAME ROOF TRUSSES, ETC.
- SECONDARY STRUCTURAL ELEMENTS AND NON-STRUCTURAL ELEMENTS. SEE ALSO "NON-STRUCTURAL ELEMENTS" GENERAL NOTES.
- CONTINUOUS: FULL TENSION SPLICE AND TENSION DEVELOPMENT LENGTH.
- EMBEDMENT: UNLESS NOTED OTHERWISE COMPRESSION EMBEDMENT MEANS A COMPRESSION DEVELOPMENT LENGTH AND TENSION EMBEDMENT MEANS A TENSION DEVELOPMENT LENGTH AS PER CAN/CSA-A23.3 AND AS SHOWN ON THESE GENERAL NOTES DRAWINGS.
- GENERAL CONTRACTOR: FOR THE PURPOSES OF THESE DRAWINGS, THE USE OF THE TERM "GENERAL CONTRACTOR" SHALL REFER TO THE PRIME PERSON OR COMPANY RESPONSIBLE FOR CONSTRUCTION OF THE PROJECT AND THE COORDINATION OF TRADES AND SUBCONTRACTORS. THIS MAY BE THE GENERAL CONTRACTOR, OR A CONSTRUCTION MANAGER.

ABBREVIATIONS

ACCOM -- ACCOMMODATE	L.T.S. --- LENGTH TO SUIT
AESS --- ARCHITECTURALLY EXPOSED	L.V. --- LENGTH VARIES
AL --- LONG WAY	L.W. --- LONG WAY
ALUM --- FACTORED AXIAL FORCE	MANUF. --- MANUFACTURED
ALTERNATE	MAX. --- MAXIMUM
ALU --- ALUMINUM	MECH --- MECHANICAL
ANCH --- ANCHOR ROD	MM --- FACTORED MOMENT
ARCH --- ARCHITECTURAL	MS --- STRONG AXIS BENDING MOMENT
B.C.E. --- BOTTOM CHORD EXTENSION	My --- WEAK AXIS BENDING
B.C.W. --- BOTTOM CHORD WAY	MIN --- MINIMUM
B.L.L. --- BOTTOM LOWER LAYER	MM --- MOMENT
B.L.W. --- BOTTOM LONG WAY	MM --- FACTORED TORSION
BEAM	N.F. --- NEAR FACE
BOT --- BOTTOM	N.C. --- NOT IN CONTACT
B.S.W. --- BOTTOM SHORT WAY	N.S. --- NEAR SIDE
B.U.L. --- BOTTOM UPPER LAYER	N.T.S. --- NOT TO SCALE
BOTH WAYS	O.C. --- ON CENTER
C.A. --- COLUMN ABOVE	O.C. --- ON CENTER
CANT --- CANTILEVER	O.F. --- OUTSIDE FACE
C.B. --- COLUMN BELOW	OPP --- OPPOSITE
CBM --- COUPLING BEAM	O.W.S. --- OPEN WEB STEEL JOIST
C.C. --- CONCRETE	PI --- FACTORED POINT LOAD
C.I.P. --- CAST IN PLACE	PRE --- PRESTRESSED
C.J. --- CONTROL JOINT	P.T. --- POST-TENSIONING
C.L. --- CENTER LINE	R.D. --- ROOF DRAIN
C.L.R. --- CLEAR	R.O. --- ROOF RAIN
COL --- COLUMN	R.O. --- ROUGH OPENING
CONC --- CONCRETE	R.T.N. --- RETURN
CONT --- CONTINUOUS	R.W. --- REINFORCED WITH
COR --- COMPLETE PENETRATION	R.W.L. --- RAIN WATER LEADER
CTRS --- CENTERS	S.A.M. --- SELF-ADHESIVE MEMBRANE
CWM --- COMPLETE WITH	S.D.F. --- STEP DOWN FOOTING
DBM --- DIVIDER BEAM	S.D.F. --- PRESTRESSED DEAD LOAD
DET --- DETAIL	SIM. --- SIMILAR
D.O. --- DO OVER (DITTO)	S.L.B. --- SHORT LEGS BACK TO BACK
D.O.V. --- DEEP (I.E. DEPTH OF BEAM)	SLS --- SERVICEABILITY LIMIT STATE
D.T. --- DEPTH TO SUIT	S.O.G. --- SLAB ON GRADE
DWG --- DRAWING	SPEC. --- SPECIFICATIONS
DWS --- DOWNED STUDS	SR --- HEADED STUD ASSEMBLY
EA --- EACH	S.S. --- STAINLESS STEEL
E.E. --- EACH END	ST --- STAGGER
E.F. --- EACH FACE	STAG --- STAGGER
ELEV --- ELEVATION	STRIP --- STRIP
ELEV --- ELEVATION	STL --- STEEL
EQ --- EQUAL	S.W. --- SHOTWAY
E.S. --- EACH SIDE	SYM --- SYMMETRICAL
E.W. --- EACH WAY	T&B --- TOP AND BOTTOM
EXIST --- EXISTING	T&C --- TENSION AND COMPRESSION
EXP. JT. --- EXPANSION JOINT	T&G --- TONGUE AND GROOVE
EXT. --- EXTERIOR	T.C. --- TRAFFIC DECK COATING
F.D. --- FLOOR DRAIN	T.E.W. --- TOP EACH WAY
F.F. --- FAR FACE	TI --- FACTORED AXIAL TENSION FORCE
F.S. --- FAR SIDE	THK --- THICK
FTG --- FOOTING	THRU --- THROUGH
GA --- GAUGE	T.J. --- TIE JOIST
GALV. --- GALVANIZED	T.L. --- TOP LOWER LAYER
GRID LINE	T.O. --- TOP OF
GR. BM --- GRADE BEAM	T.O.C. --- TOP OF CONCRETE
G.W.B. --- GYPSUM WALL BOARD	T.O.F. --- TOP OF FOUNDATION
H. --- HORIZONTAL	T.O.S. --- TOP OF SLAB
H.1.E. --- HOOK ONE END	T.O.P. --- TOP OF STRUCTURAL STEEL
H.2.E. --- HOOK TWO ENDS	T.O.W. --- TOP OF WALL
H&V --- HORIZONTAL AND VERTICAL	TR --- TRANSFER
H.D.G. --- HOT-DIP GALVANIZED	T.U.L. --- TOP UPPER LAYER
H.F. --- FACTORED HORIZONTAL	TYP --- TYPICAL
HIGH LOAD	U.L.S. --- ULTIMATE LIMIT STATE
H.P. --- HIGH POINT	U.O. --- UNLESS NOTED OTHERWISE
H.S.C. --- HORIZONTALLY SLOTTED CONNECTION	UNDER-SIDE
HT --- HEIGHT	V. --- VERTICAL
I.F. --- INSIDE FACE	V.C. --- VERTICALLY SLOTTED
INT. --- INTERIOR	V.F. --- VERTICALLY SLOTTED
JT. --- JOINT	W --- WALL
LONG	W --- WALL
L.L. --- LIVE LOAD	W.A. --- WALL ABOVE
L.B.L. --- LONG LEGS BACK TO BACK	W.B. --- WALL BELOW
L.L.H. --- LONG LEG HORIZONTAL	W.P. --- WORK POINT
L.P. --- LOW POINT	WT --- WEIGHT
L.S.V. --- LONG SIDE VERTICAL	Y --- YIELDING
L.S.V. --- LONG SIDE VERTICAL	Y.B. --- YIELDING BRACING
	Y.V. --- VERTICAL CROSS BRACING

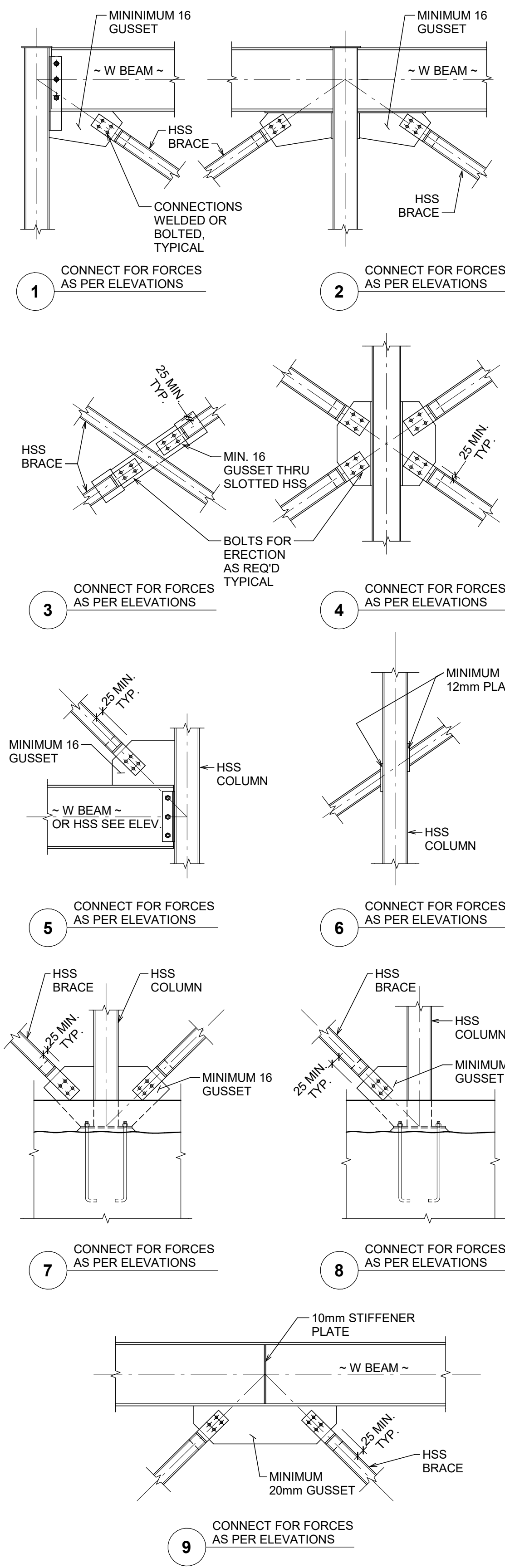
DESIGN CODE

1. THE COMPLETED BASE BUILDING STRUCTURE SHOWN ON THE STRUCTURAL DRAWINGS HAS BEEN DESIGNED IN SUBSTANTIAL ACCORDANCE WITH THE NATIONAL BUILDING CODE - 2019 ALBERTA EDITION (BRITISH COLUMBIA BUILDING CODE 2019/ONTARIO BUILDING CODE 2012 / OREG 88/19) (CITY OF VANCOUVER BUILDING BY-LAW #2511 (2019)) WHICH IS BASED ON THE NATIONAL BUILDING CODE OF CANADA (NBC).

No.	Date	Description
1	2023-03-17	ISSUED FOR 15% DESIGN REVIEW
2	2023-07-23	ISSUED FOR 30% DESIGN REVIEW
3	2023-08-23	ISSUED FOR APPROVAL
4	2024-01-26	ISSUED FOR TENDER
5	2024-02-01	ISSUED FOR 100% DESIGN REVIEW

- Drawing Notes
1. All drawings, plans, models, designs, specifications and other documents prepared by Read Jones Christoffersen Ltd. ("RJC") and used in connection with this project are instruments of service for the work shown on the "Work" and as such are and remain the property of RJC whether the Work is executed or not, and RJC reserves the copyright in them and in the Work executed from them, and they shall not be used for any other work or project.
2. These drawings are "design drawings" only. They may not be used as "as-built" drawings or as "shop drawings" if not permitted unless the design conditions and limitations are obtained from RJC. The work "as constructed" may vary from what is shown on these drawings.
3. Use of these drawings is limited to that identified in the Issued/Revision column. Do not construct from these drawings unless marked "Issued for Construction" by RJC in the Issued/Revision column, and then only for the parts noted. The drawings shall not be used for "pricing", "costing" or "tender" unless so indicated in the Issued/Revision column. "Pricing" or "costing" drawings are not complete and any prices based on such drawings must allow for this.

TYPICAL BRACE CONNECTION DETAILS
(LOADS FOR CONNECTION DESIGN TO BE
SHOWN ON ELEVATION TYPICAL)



TESTING OF POST-INSTALLED
ADHESIVE AND MECHANICAL ANCHORS

1. THE OWNER SHALL RETAIN AN INDEPENDENT TESTING AGENCY TO PROVIDE AN ON-GOING SERVICE OF ON-SITE QUALITY CONTROL REVIEWS TO ENSURE THAT ANCHORS ARE BEING INSTALLED IN ACCORDANCE TO THE ANCHOR MANUFACTURER'S SPECIFICATIONS.
2. THE INDEPENDENT TESTING AGENCY FIELD PERSONNEL COMPLETING REVIEWS OF ANCHOR INSTALLATION AND PERFORMING ANCHOR TESTING SHALL BE QUALIFIED FOR THAT WORK AND TRAINED BY THE MANUFACTURER'S REPRESENTATIVE IN THE INSTALLATION AND REVIEW REQUIREMENTS OF ALL ANCHOR SYSTEMS USED ON THE PROJECT INCLUDING SPECIALIZED TRAINING FOR HORIZONTAL OR UPWARDLY INCLINED ADHESIVE ANCHORS.
3. THE INDEPENDENT TESTING AGENCY FIELD PERSONNEL COMPLETING REVIEWS OF ANCHOR INSTALLATION AND PERFORMING ANCHOR TESTING HAVE CURRENT CERTIFICATION (WITHIN PAST 5 YEARS) IN ACCORDANCE WITH THE ACI/CSRI ADHESIVE ANCHOR INSTALLATION CERTIFICATE PROGRAM OR EQUIVALENT. ACI/CSRI CERTIFICATION DOCUMENTS SHALL BE SUBMITTED FOR REVIEW A MINIMUM OF 72 HOURS BEFORE THE PERSONNEL FROM THE INDEPENDENT TESTING AGENCY COMPLETES ANY TESTING OR OBSERVATIONS ON THE PROJECT.
4. ANCHORS NOTED FOR "CONTINUOUS SPECIAL INSPECTION" OR "PERIODIC SPECIAL INSPECTION" ARE TO BE INSPECTED BY THE INDEPENDENT TESTING AGENCY IN ACCORDANCE WITH THE TERMINOLOGY IN ACI 308.4.
5. PERIODIC SPECIAL INSPECTIONS SHALL BE PROVIDED FOR ALL ANCHORS UNLESS NOTED OTHERWISE.
6. THE INDEPENDENT TESTING AGENCY FIELD PERSONNEL WILL PROVIDE CONTINUOUS SPECIAL INSPECTION FOR INSTALLATION OF ALL ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS AS PER THE REQUIREMENTS DEFINED IN THE POST-INSTALLED ADHESIVE AND MECHANICAL ANCHOR NOTES AND IN THE SPECIFICATIONS.
7. MARKINGS ON EXPOSED PORTIONS OF ANCHORS BY THE MANUFACTURER DESIGNATE ANCHOR TYPE, MATERIAL GRADE, LENGTH, ETC. CUTTING OFF THESE MARKINGS PRIOR TO REVIEW FOR CONFORMANCE WITH THE STRUCTURAL DRAWINGS BY THE INDEPENDENT TESTING AGENCY SHALL RESULT IN REJECTION OF THE ANCHORS AND REPLACEMENT AT THE CONTRACTOR'S COST.
8. ALL UNMARKED THREADED ROD SHALL BE REJECTED AND REPLACED AT THE CONTRACTOR'S COST.
9. QUALITY ASSURANCE REPORTS FROM THE INDEPENDENT TESTING AGENCY ARE TO BE SUBMITTED TO RJC AFTER EACH SITE VISIT.
10. A REPRESENTATIVE SAMPLE OF ANCHORS ARE TO BE TESTED FOR EACH TYPE AND SIZE OF ANCHOR SPECIFIED. ANCHORS WHICH FAIL THE LOAD TEST SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S COST.
11. THE FOLLOWING TESTING BY THE INDEPENDENT TESTING AGENCY IS PAID FOR BY THE OWNER:
 - A. RANDOMLY SELECT 10% OF MECHANICAL ANCHORS AND 10% OF SCREW ANCHORS (2 MINIMUM PER CONNECTION) TO VERIFY INSTALLATION TORQUE MEETS MANUFACTURER'S INSTALLATION CRITERIA.
 - B. PROOF LOAD TEST 10% OF ADHESIVE ANCHORS OR AS INDICATED IN THE DRAWINGS OR AS IDENTIFIED BY THE STRUCTURAL ENGINEER OF RECORD. PROOF LOAD TEST 100% OF ALL ADHESIVE ANCHORS INSTALLED INTO CONCRETE WITH TEMPERATURE BELOW 10 °C AT TIME OF INSTALLATION.
 - C. RANDOMLY SELECT 2% OF ADHESIVE ANCHORS (3 MINIMUM) FOR TESTING TO FAILURE. CONTRACTOR TO REPLACE ANCHORS AT CONTRACTOR'S COST.
 - D. PROOF LOAD TEST POST-INSTALLED REBAR AS INDICATED IN THE DRAWINGS OR IDENTIFIED BY THE STRUCTURAL ENGINEER OF RECORD.
12. THE FOLLOWING TESTING AND FIELD REVIEW BY THE INDEPENDENT TESTING AGENCY IS PAID FOR BY THE CONTRACTOR:
 - A. IF ANY MECHANICAL ANCHORS IN A CONNECTION FAILS TEST OF INSTALLATION TORQUE. VERIFY INSTALLATION TORQUE OF ALL ANCHORS IN THE SAME CONNECTION AND OTHER ANCHORS AS DIRECTED BY THE INDEPENDENT TESTING AGENCY OR ENGINEER OF RECORD.
 - B. IF ANY PROOF LOAD TEST FAILS. TEST 100% OF ANCHORS OF SIMILAR TYPE AND INSTALLATION CONDITION AND OTHER ANCHORS AS DIRECTED BY THE INDEPENDENT TESTING AGENCY OR ENGINEER OF RECORD.
 - C. IF ANY ANCHORS ARE FOUND TO BE INSTALLED WITHOUT COMPLETE ADHESIVE OR ARE EMBEDDED LESS THAN 90% OF THE DEPTH SHOWN ON THE DRAWINGS. THEN PROOF LOAD TEST 100% OF THE ANCHORS.
 - D. PROVIDE FULL TIME FIELD REVIEW OF ALL REPAIRS.
13. UNLESS NOTED OTHERWISE, ALL PROOF LOADING SHALL BE PERFORMED TO INDIVIDUAL ANCHORS WITH THE FOLLOWING TECHNIQUES:
 - A. ADHESIVE ANCHORS OR MECHANICAL ANCHORS INSTALLED IN CONCRETE. PERFORM PROOF LOADING AS CONFINED TENSION TESTS USING A CALIBRATED CENTERHOLE HYDRAULIC CYLINDER AND A RIGID STEEL THRU-HOLE REACTION PLATE BEARING ON THE CONCRETE IN CLOSE PROXIMITY ALL AROUND THE ANCHOR. WHERE PROOF TEST IS NOTED ON DRAWINGS AS TORQUE VALUE. PERFORM PROOF LOADING USING A CALIBRATED TORQUE WRENCH.
 - B. ADHESIVE OR MECHANICAL ANCHORS INSTALLED IN GROUTED OR UNGROUTED MASONRY. PERFORM PROOF LOADING AS UNCONFINED TENSION TESTS USING A CALIBRATED CENTERHOLE HYDRAULIC CYLINDER AND REACTION AGAINST MASONRY LOCATED AWAY FROM THE MASONRY UNIT TESTED AND BEYOND ANY RESULTING FAILURE SURFACE. WHERE PROOF TEST IS NOTED ON DRAWINGS AS TORQUE VALUE. PERFORM PROOF LOADING USING A CALIBRATED TORQUE WRENCH.
 - C. SCREW ANCHORS INSTALLED IN CONCRETE OR MASONRY. PERFORM PROOF LOADING USING A CALIBRATED TORQUE WRENCH.
14. TESTING AGENCY TO SUBMIT TRACEABLE CALIBRATION DATA FOR THE HYDRAULIC CYLINDER AND TORQUE WRENCH WITH THE TESTING REPORT. CALIBRATION DATA SHALL NOT BE OLDER THAN 12 MONTHS.
15. PROOF LOAD LEVEL SHALL BE AS INDICATED ON SCHEDULE DRAWINGS OR AS INDICATED ON THE PLANS AND DETAILS.
16. MAINTAIN THE PROOF LOAD FOR A MINIMUM OF 60 SECONDS.
17. MAXIMUM ANCHOR DISPLACEMENT AFTER THE SUSTAINED PROOF LOAD SHALL BE 0.0% OF THE EMBEDMENT DEPTH AND MAXIMUM DECREASE IN MEASURED LOAD SHALL BE 2% UNLESS NOTED OTHERWISE.
18. THE INDEPENDENT TESTING AGENCY IS TO PROVIDE A TESTING AND REPAIR REPORT SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OR TERRITORY WHERE THE WORK IS DONE.
19. THE TEST REPORT SHALL BE SUBMITTED FOR REVIEW BY RJC NO LATER THAN 72 HOURS AFTER THE TESTING IS COMPLETED.
20. THE TEST REPORT SHALL DETAIL ALL OBSERVATIONS AND RESULTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
 - A. LOCATION OF TESTING WITHIN THE PROJECT AND SUITABLE DIAGRAM, ANNOTATED PHOTOGRAPH OR OTHER NOTATION CLEARLY IDENTIFYING WHICH ANCHORS AT A PARTICULAR LOCATION WERE TESTED.
 - B. DATE OF INSTALLATION AND DATE OF TESTING OF ANCHORS. TIME IS ALSO TO BE INDICATED WHERE THE INSTALLATION AND TESTING TIMES ARE LESS THAN 48 HOURS APART.
 - C. EMBEDMENT DEPTH, MANUFACTURER'S MARKINGS OF TESTED ANCHORS AND ADHESIVE PRODUCT UTILIZED. THE METHOD USED TO VERIFY EMBEDMENT DEPTH AND OTHER PROPERTIES SHALL BE DOCUMENTED.
 - D. TEST PROCEDURE UTILIZED FOR EACH ANCHOR.
 - E. TEST LOADS APPLIED, DURATION OF SUSTAINED LOAD FOR EACH ANCHOR AND NUMBER OF LOADING CYCLES WHERE APPLICABLE.
 - F. ANY OTHER RELEVANT OBSERVATIONS BY THE TESTING ENGINEER REGARDING IMPROPER INSTALLATION PROCEDURES OR POOR INSTALLATION QUALITY THAT WOULD HAVE A MEANINGFUL IMPACT ON THE IN-SERVICE PERFORMANCE OF THE ANCHORS.

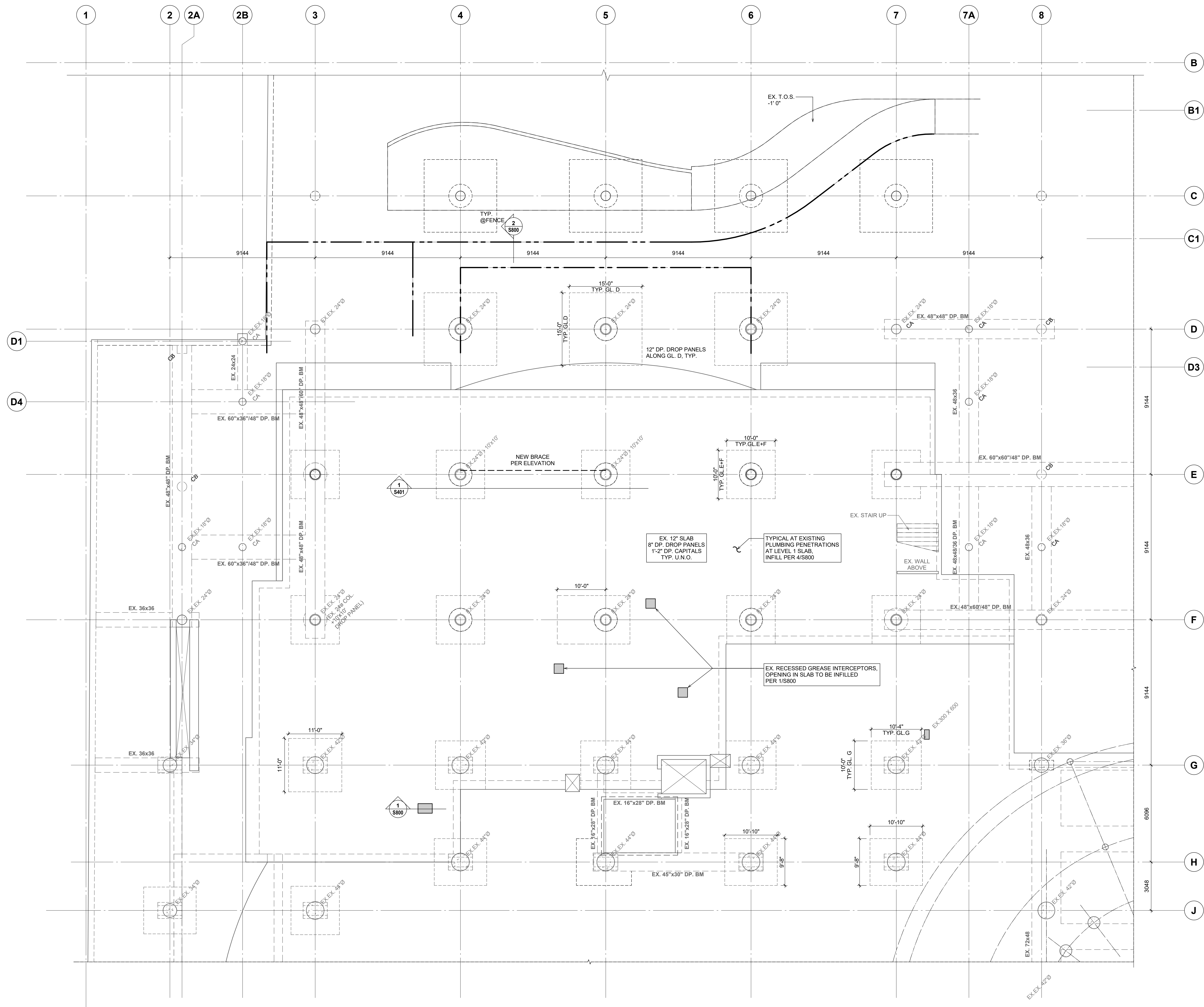
FIRE RATING FOR STRUCTURAL STEEL

1. TO DETERMINE THE FIRE RATING BASED ON ULC RATINGS, THE STEEL STRUCTURE IS CONSIDERED RESTRAINED.
2. THE STRUCTURE IS DESIGNED AS NON-LOAD RESTRICTED. THE ULC FIRE RATED ASSEMBLIES MUST BE CHOSEN AS NON-LOAD RESTRICTED.

No.	Date	Description
1	2023-03-17	ISSUED FOR 75% DESIGN REVIEW
2	2023-07-17	ISSUED FOR 90% DESIGN REVIEW
3	2023-08-23	ISSUED FOR APPROVAL
4	2024-01-26	ISSUED FOR TENDER
5	2024-02-01	ISSUED FOR 100% DESIGN REVIEW

- Drawing Notes
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No.	Date	Description
1	2022-09-23	ISSUED FOR CLASS O COSTING
2	2023-02-17	ISSUED FOR 10% DESIGN REVIEW
3	2023-07-17	ISSUED FOR 95% DESIGN REVIEW
4	2023-08-23	ISSUED FOR APPROVAL
5	2024-01-26	ISSUED FOR TENDER
6	2024-02-01	ISSUED FOR 100% DESIGN REVIEW



Ground - NORTH

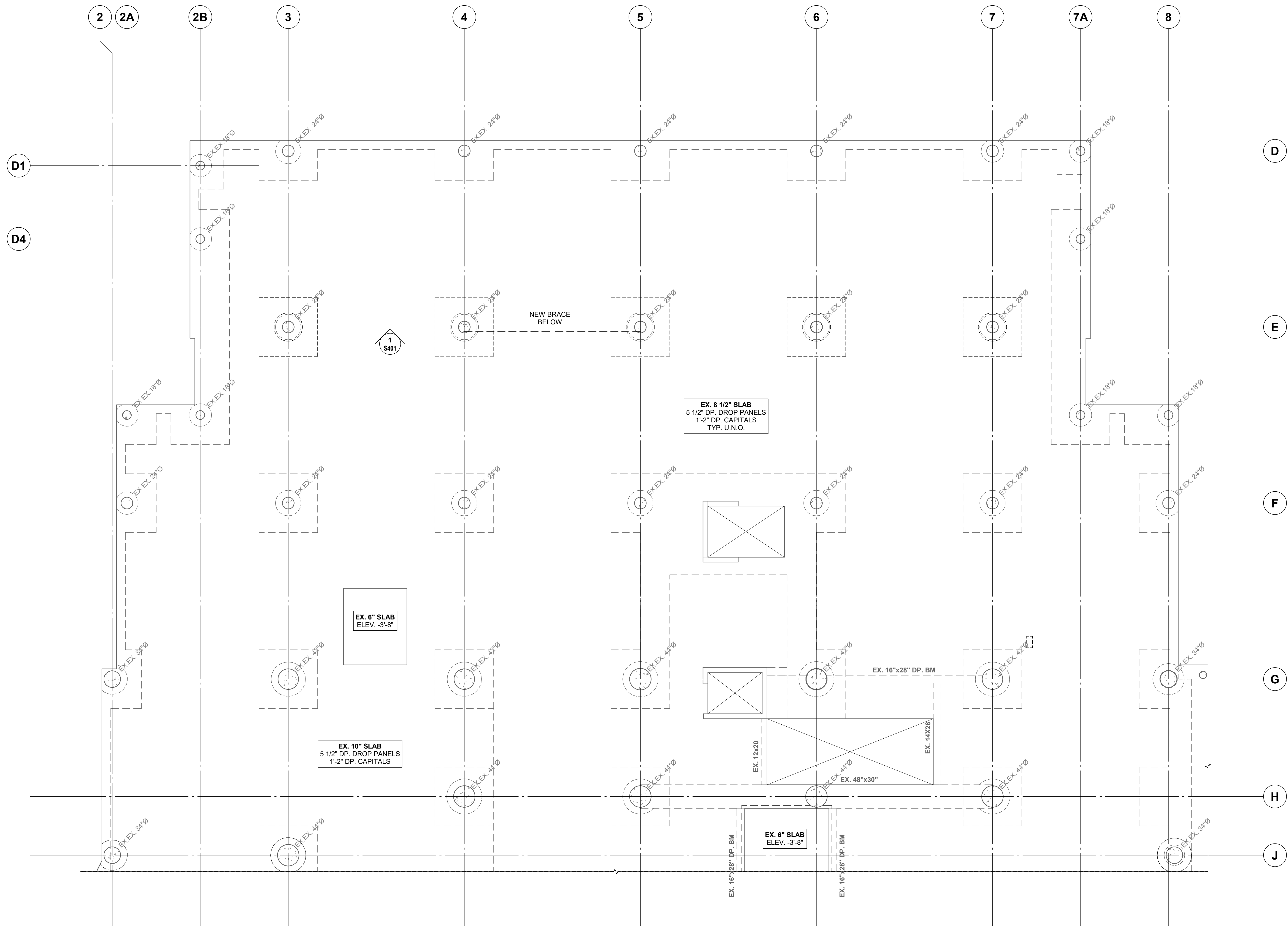
1:100

- NOTES:
- EXISTING STRUCTURE DESIGN LIVE LOADS ARE:
 - EXTERIOR AREAS 100 psf
 - INTERIOR AREAS 100 psf
 - OR OTHERWISE CROSSED AND NOTED ON PLAN.
 - EXISTING STRUCTURE DESIGN DEAD LOADS ARE:
 - INTERIOR AREAS
 - PARTITIONS 20 psf
 - EXISTING STRUCTURE EXTERIOR AREAS
 - 2\"/>
 - CONTRACTOR TO PROVIDE CORING PENETRATION LAYOUT PLAN AND REBAR SCANS FOR RJC REVIEW PRIOR TO ANY CORING. NO CORES PERMITTED WITHIN DROPS/CAPITALS/BEAMS/STEP BEAMS.

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- Use of these drawings is limited to that identified in the Issued/Revision column. Do not construct from these drawings unless marked "Issued for Construction" by RJC in the Issued/Revision column, and then only for the parts noted. The drawings shall not be used for "Pricing", "Costing" or "Tender" unless so indicated in the Issued/Revisions column. "Pricing" or "Costing" drawings are not complete and any prices based on such drawings must allow for this.

No.	Date	Description	ISSUED
1	2022-09-23	ISSUED FOR CLASS 0 COSTING	
2	2023-07-17	ISSUED FOR R/A DESIGN REVIEW	
3	2023-08-23	ISSUED FOR APPROVAL	
4	2024-01-26	ISSUED FOR TENDER	
5	2024-02-01	ISSUED FOR 100% DESIGN REVIEW	



Level 2 - NORTH

1:100

NOTES:

- EXISTING STRUCTURE DESIGN LIVE LOADS ARE:
 - 100 psf
- EXISTING STRUCTURE DESIGN DEAD LOADS ARE:
 - PARTITIONS 20 psf
- CONTRACTOR TO PROVIDE CORING PENETRATION LAYOUT PLAN AND REBAR SCANS FOR RJC REVIEW PRIOR TO ANY CORING. NO CORES PERMITTED WITHIN DROP/S/CAPITALS/BEAMS/STEP BEAMS.

Drawing Notes

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Metro Hall Fire Station &
Early Years Child Care Centre
Renovation

55 John Street
Toronto, ON
M5V 3C5

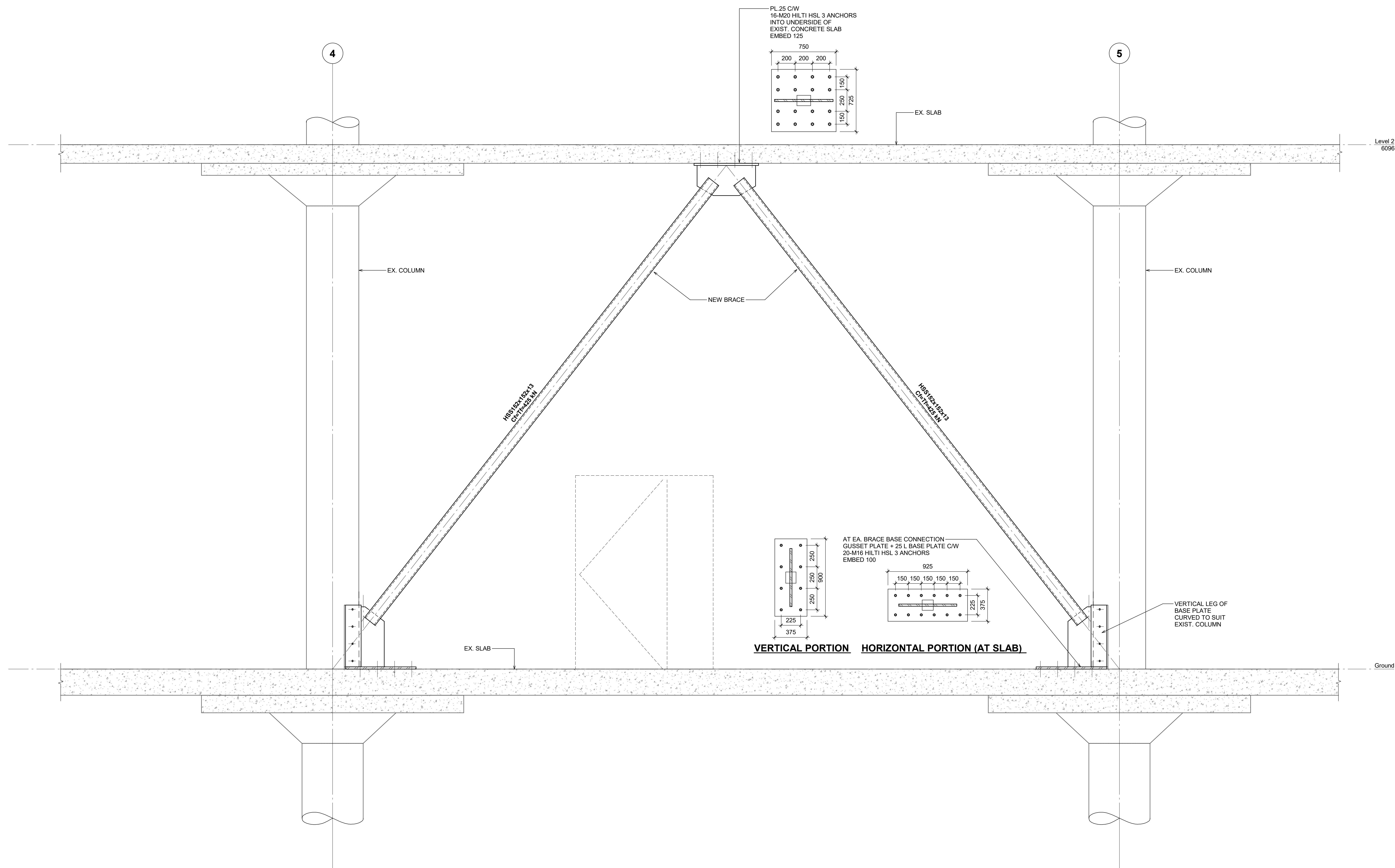
TOR 124444-0002

EX. LEVEL 2 PLAN

1:100

S202

No.	Date	Description
1	2022-09-23	ISSUED FOR CLASS D COSTING
2	2023-07-17	ISSUED FOR 95% DESIGN REVIEW
3	2023-08-23	ISSUED FOR APPROVAL
4	2024-01-26	ISSUED FOR TENDER
5	2024-02-01	ISSUED FOR 100% DESIGN REVIEW



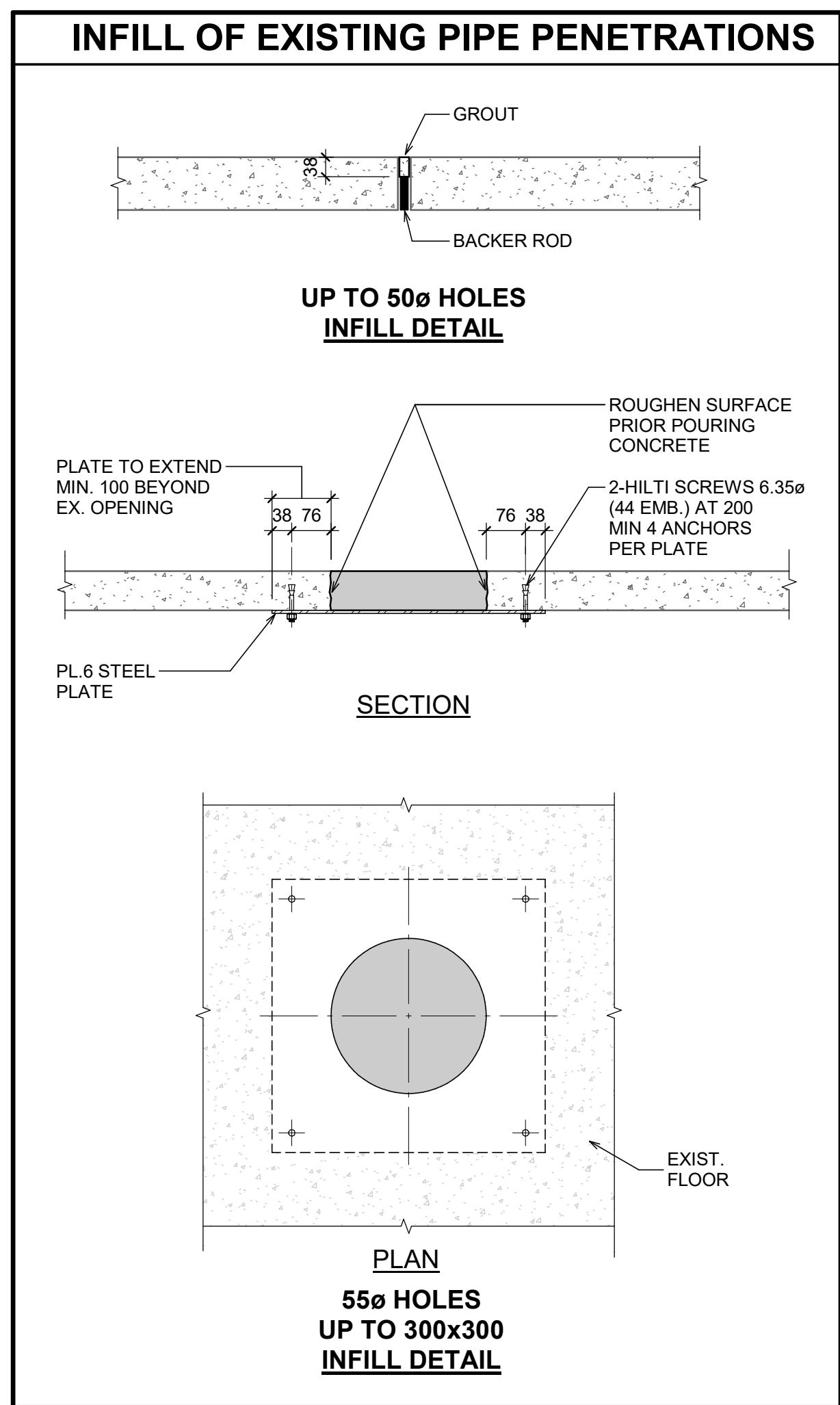
1
S401 1 : 20

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2. These drawings are "design drawings" only. They may not be used for any other drawings or for any other project. The basic drawings for "shop drawings" is not permitted unless written permission containing certain conditions and limitations is obtained from RJC. The "shop drawings" must carry what is shown on these drawings.
3. Use of these drawings is limited to that identified in the Issued/Revisions/Comments. Do not construct from these drawings without the "market". The Issued/Revisions/Comments in the Issued/Revisions/Comments, and then only for the parts noted in the Issued/Revisions/Comments. The Issued/Revisions/Comments or "header" notes so indicated in the Issued/Revisions/Comments, and the "shop drawings" must carry the Issued/Revisions/Comments and any prices based on such drawings must allow for this.

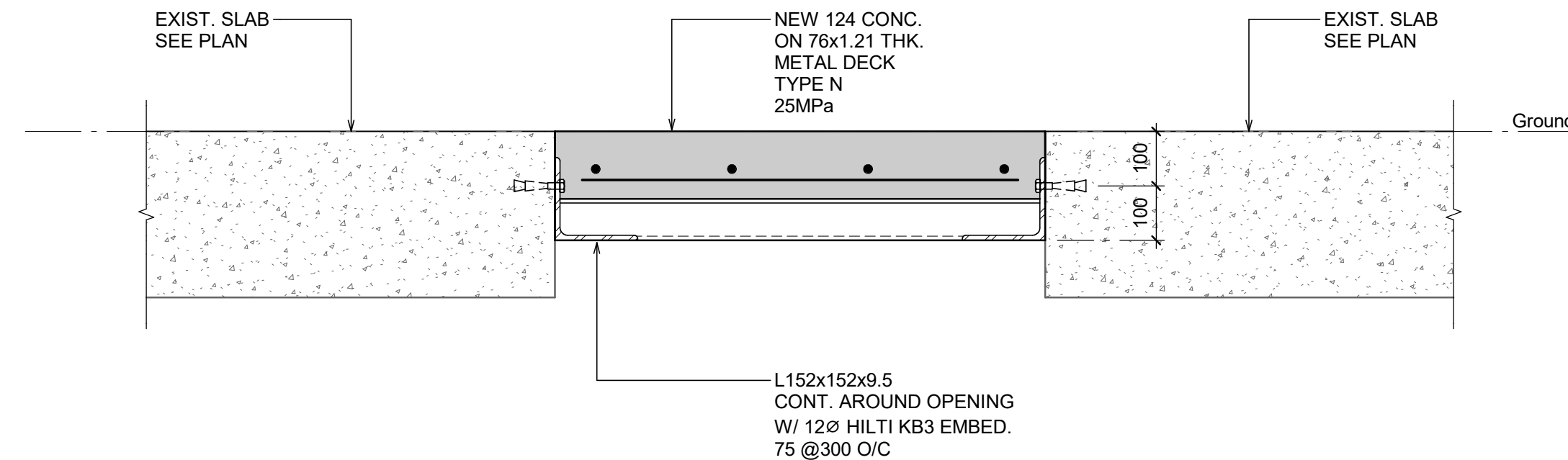
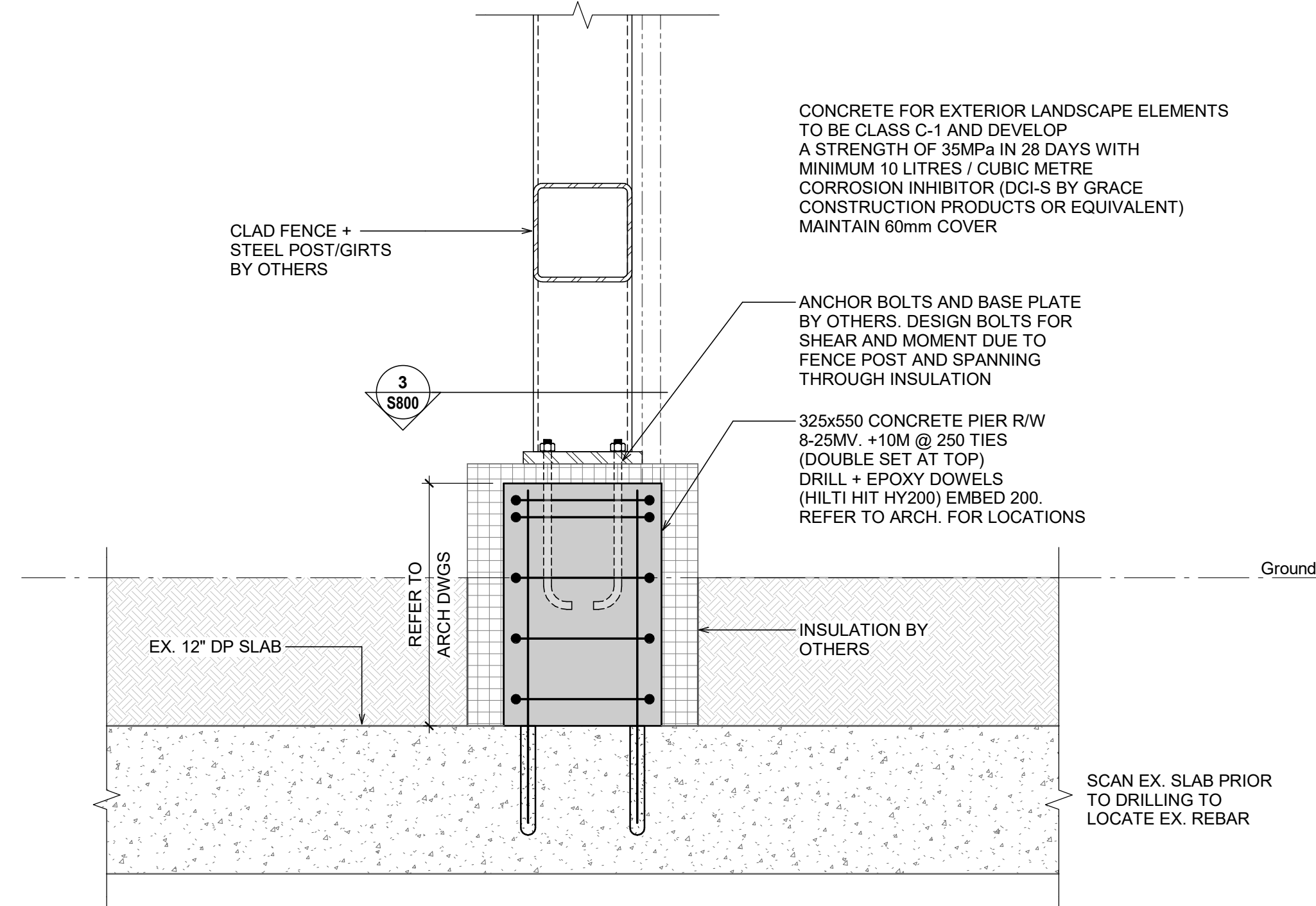
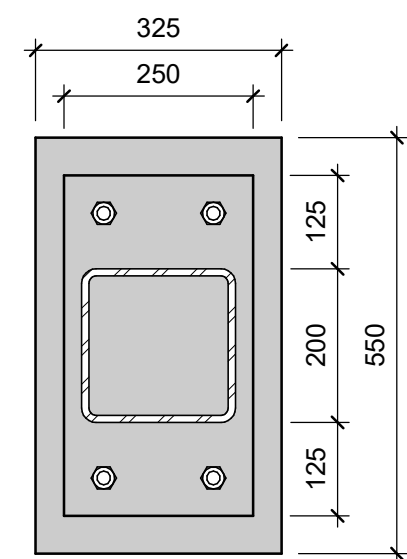
No.	Date	Description
1	2023-03-17	ISSUED FOR 75% DESIGN REVIEW
2	2023-07-17	ISSUED FOR 90% DESIGN REVIEW
3	2023-08-23	ISSUED FOR APPROVAL
4	2024-01-26	ISSUED FOR TENDER
5	2024-02-01	ISSUED FOR 100% DESIGN REVIEW

- Drawing Notes
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4
S800
1 : 10
INFILL DETAILS

3
S800
1 : 10
POST BASE DETAIL AT PLAYGROUND FENCE



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Sheet List	
Sheet Name	Sheet Number
MECHANICAL LEGEND AND DRAWING LIST	DC-M-001
LEVEL 1 - PAD DEMO	DC-M-100
LEVEL 1 - SMO NEW	DC-M-101
Level P1 - PAD NEW	DC-M-102
LEVEL 1 - FIRE PROTECTION DEMO	DC-M-200
LEVEL 1 - FIRE PROTECTION NEW	DC-M-201
LEVEL 1 - HVAC DEMO	DC-M-300
LEVEL 1 - HVAC NEW	DC-M-301
MECHANICAL MEZZANINE - HVAC DEMO	DC-M-302
MECHANICAL MEZZANINE - HVAC NEW	DC-M-303
MECHANICAL SCHEDULES	DC-M-400
MECHANICAL DETAILS	DC-M-500

CONTROLS LEGEND	
	MANAGED NETWORK SWITCH
	REMOTE CONTROL UNIT (RCU)
	CCS
	CURRENT TRANSFORMER
	FILTER
	DAMPER
	FAC
	HUMIDITY SENSOR
	TEMPERATURE SENSOR
	MOTORIZED DAMPER ACTUATOR
	FREEZE STAT
	PRESSURE SENSOR
	PRESSURE SENSOR (HIGH SIDE)
	PRESSURE SENSOR (LOW SIDE)
	FILTER DIFFERENTIAL PRESSURE SENSOR
	DUCT PRESSURE SWITCH
	AIR FLOW SWITCH
	DIFFERENTIAL SENSOR
	FAILURE POSITION (LAST POSITION)
	SPRING FAILURE POSITION (NORMALLY OPEN)
	SPRING FAILURE POSITION (NORMALLY CLOSED)
	HYDRONIC COOLING COIL
	HYDRONIC HEATING COIL
	REMOTE AIR FLOW MEASURING STATION
	EVAPORATION MEDIA
	HUMIDIFIER
	FLOW MEASURING STATION
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	WATER METER
	BACNET MSTP
	BACNET IP

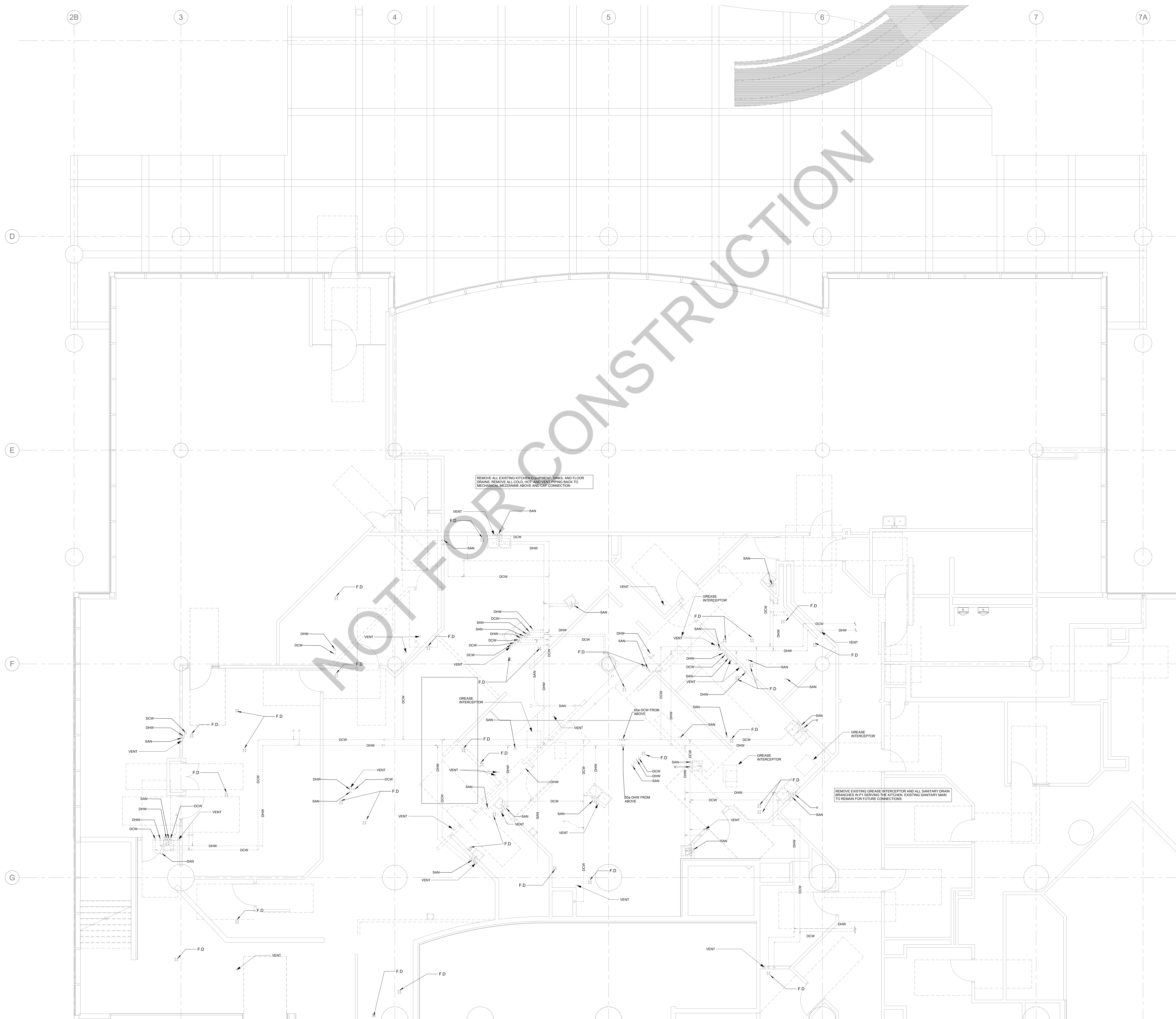
MECHANICAL LEGEND	
	SUPPLY AIR DUCT (UP / DOWN)
	RETURN AIR DUCT (UP / DOWN)
	EXHAUST AIR DUCT (UP / DOWN)
	FIRE DAMPER
	AUTOMATIC DAMPER WITH OPERATOR
	GRAVITY BACKDRAFT DAMPER
	SMOKE DAMPER
	FIRE/SMOKE DAMPER
	AIR FLOW MEASURING STATION
	MANUAL BALANCING DAMPER
	DUCTWORK WITH ACOUSTIC INSULATION
	2 HOUR FIRE RATED SYSTEM
	HUMIDITY SENSOR
	THERMOSTAT - LINE VOLTAGE
	SENSOR
	CO & NOx SENSOR
	FAN SWITCH
	DIFFUSER, REGISTER OR GRILLE
	AIR TERMINAL UNIT
	EQUIPMENT TAG
	PLUMBING FIXTURE TAG
	RISER TAG
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	GLYCOL SUPPLY
	GLYCOL RETURN
	HIGH TEMPERATURE HEATING WATER SUPPLY
	HIGH TEMPERATURE HEATING WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	LOW TEMPERATURE HEATING WATER SUPPLY
	LOW TEMPERATURE HEATING WATER RETURN
	LOW PRESSURE GAS LINE
	MEDIUM PRESSURE GAS LINE
	SANITARY DRAIN
	PUMPED SANITARY
	INDIRECT DRAIN
	SANITARY VENT
	STORM DRAIN
	PUMPED STORM
	BOOSTED DOMESTIC COLD WATER
	DOMESTIC COLD WATER
	IRRIGATION LINE
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	HIGH TEMPERATURE DOMESTIC HOT WATER
	HIGH TEMPERATURE DOMESTIC HOT WATER RECIRCULATION
	SPRINKLER LINE
	PREACTION SPRINKLER LINE
	FIRE/SPRINKLER MAN
	FLOOR DRAIN
	PARKING DRAIN
	ROOF DRAIN
	SCUPPER DRAIN
	CLEANOUT
	P-TRAP
	NON-FREEZE HOSE BIBB
	SIAMESE CONNECTION
	SPRINKLER HEAD - UPRIGHT
	SPRINKLER HEAD - SEMI RECESSED
	SPRINKLER HEAD - CONCEALED
	SPRINKLER HEAD - PENDANT TAMPER RESISTANT
	SPRINKLER HEAD - SIDEWALL
	FIRE EXTINGUISHER WITH CABINET
	ISOLATION VALVE
	BALANCING VALVE
	CIRCUIT SOLVING VALVE
	PRESSURE REDUCING VALVE
	CONTROL VALVE
	CIRCUIT BALANCING VALVE
	CHECK VALVE
	LINE VOLTAGE SOLENOID VALVE
	MONITORED VALVE
	(SAFETY) RELIEF VALVE
	STRAINER
	UNION
	FLOW SWITCH
	FLOW MEASURING STATION
	PRESSURE GAUGE
	WELL
	THERMOMETER / THERMOMETER WELL
	WATER METER / GAS METER
	BACKFLOW PREVENTOR
	PIPE GUIDE / PIPE ANCHOR
	ELBOW TURNING DOWN
	ELBOW TURNING UP
	PIPE END CAPPED

No.	Date	Description	ISSUED
1	23/08/2022	ISSUED FOR CLASS D COSTING	
2	17/03/2023	ISSUED FOR 75% DESIGN REVIEW	
3	02/05/2023	ISSUED FOR 95% DESIGN REVIEW	
6	14/07/2023	ISSUED FOR 95% DESIGN DEVELOPMENT	
7	25/08/2023	ISSUED FOR APPROVAL	
8	02/01/2024	ISSUED FOR TENDER	

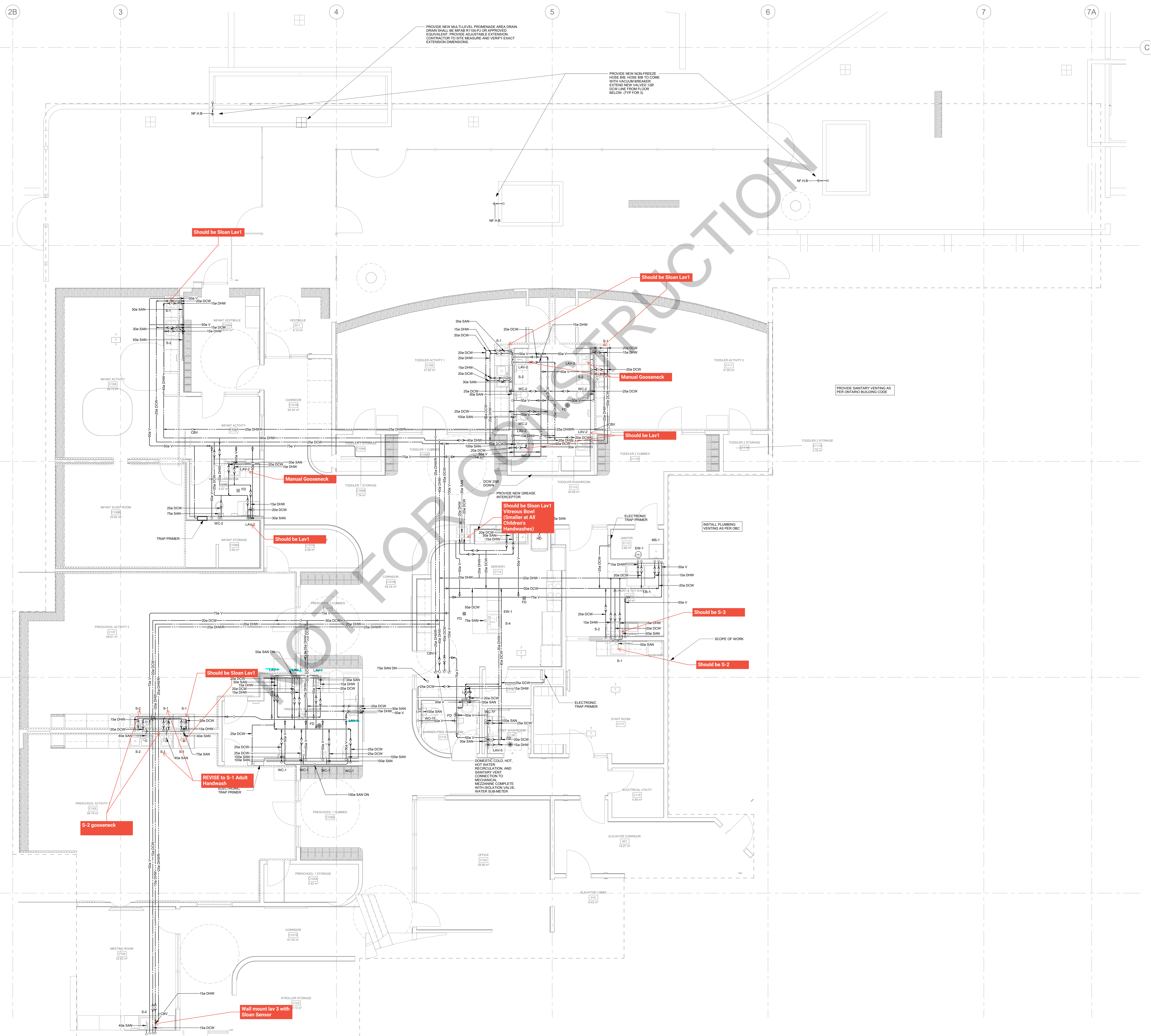
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Toronto
Metro Hall Fire Station & Early Years Child Care Centre Renovation
55 John Street
Toronto, ON
M5V 3C8
2021-0245

MECHANICAL LEGEND AND DRAWING LIST
1 : 100
DC-M-001

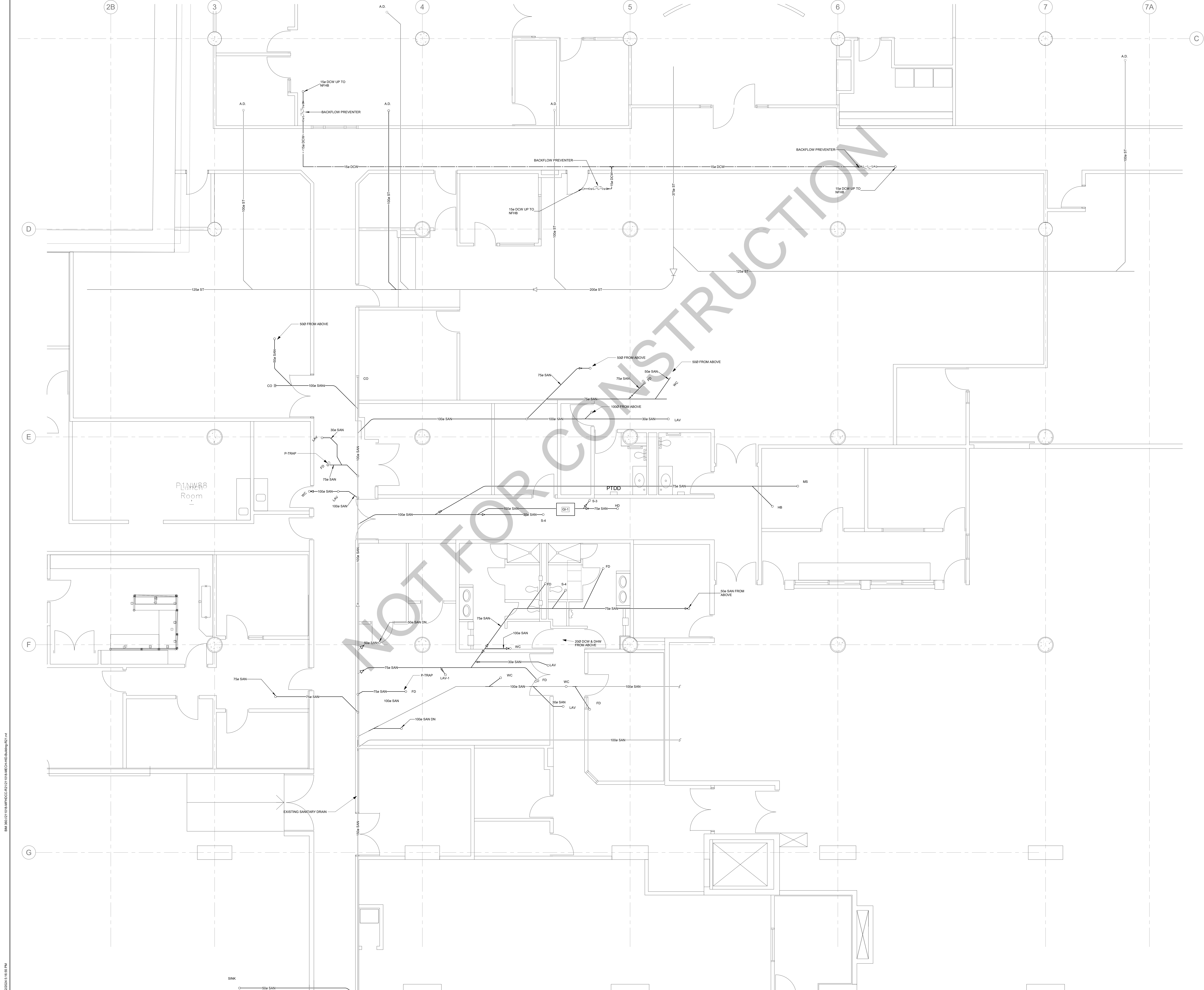


No.	Date	Description	ISSUED
1	23/08/2022	ISSUED FOR CLASS D COSTING	
2	17/03/2023	ISSUED FOR 5% DESIGN REVIEW	
3	02/05/2023	ISSUED FOR 90% DESIGN REVIEW	
6	14/07/2023	ISSUED FOR 95% DESIGN DEVELOPMENT	
7	25/08/2023	ISSUED FOR APPROVAL	
8	02/01/2024	ISSUED FOR TENDER	



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7	25/08/2023	ISSUED FOR APPROVAL	
8	02/01/2024	ISSUED FOR TENDER	

NOT FOR CONSTRUCTION

REMOVE SPRINKLER
HEAD AND ALL
ASSOCIATED BRANCH
PIPING (TYPICAL)

EXISTING FIRE
PUMP CABINET TO
REMAIN

EXISTING KITCHEN FIRE SUPPRESSION
SYSTEM ALONG WITH ALL ASSOCIATED PIPING
AND CONTROLS TO BE REMOVED.

SCOPE OF WORK

REMOVE ALL SPRINKLER HEADS IN KITCHEN
(TYPICAL)

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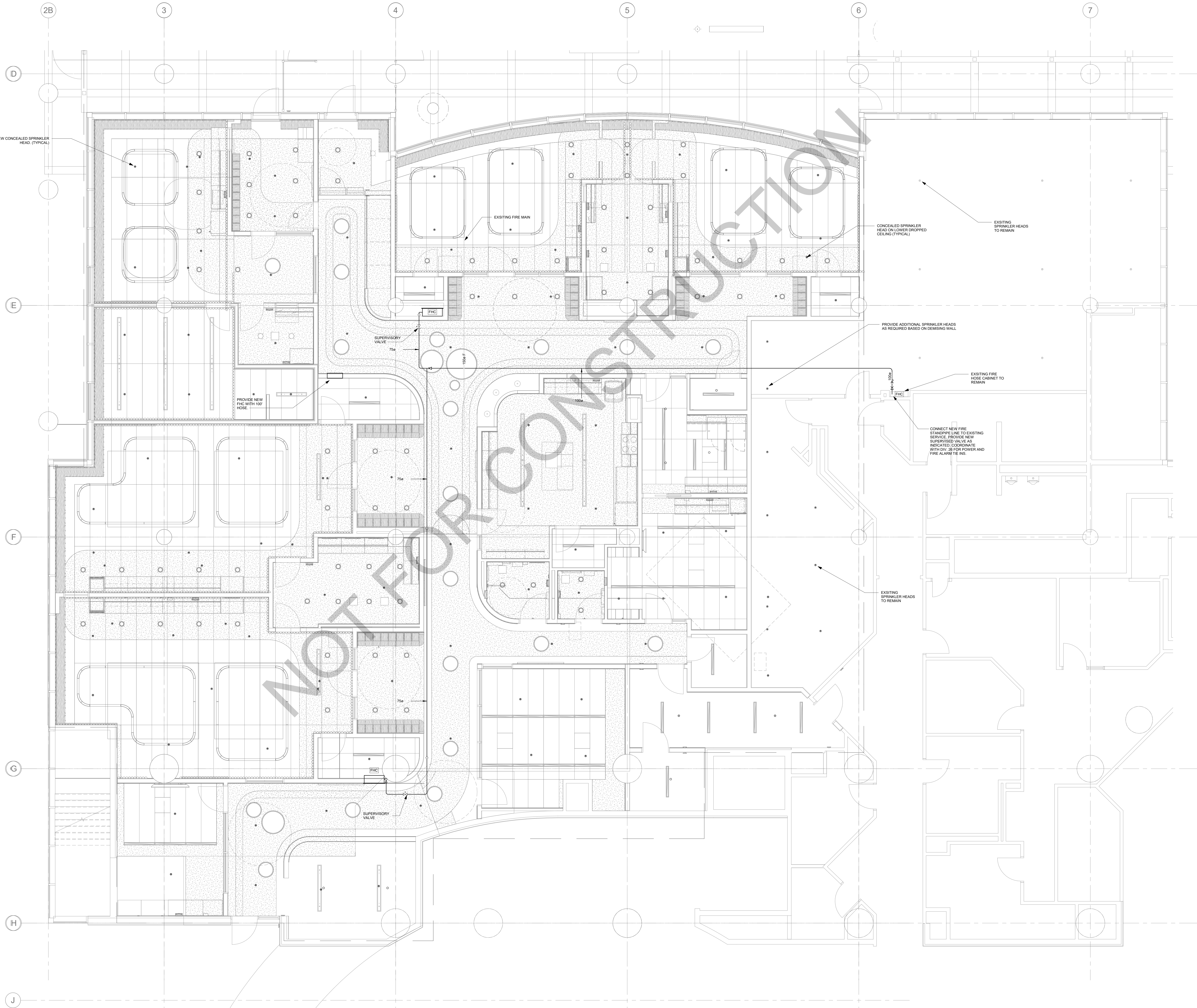
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TORONTO
Metro Hall Fire Station &
Early Years Child Care
Centre Renovation
55 John Street
Toronto, ON
M5V 3C8
2021-0245

LEVEL 1 - FIRE
PROTECTION DEMO
1 : 50

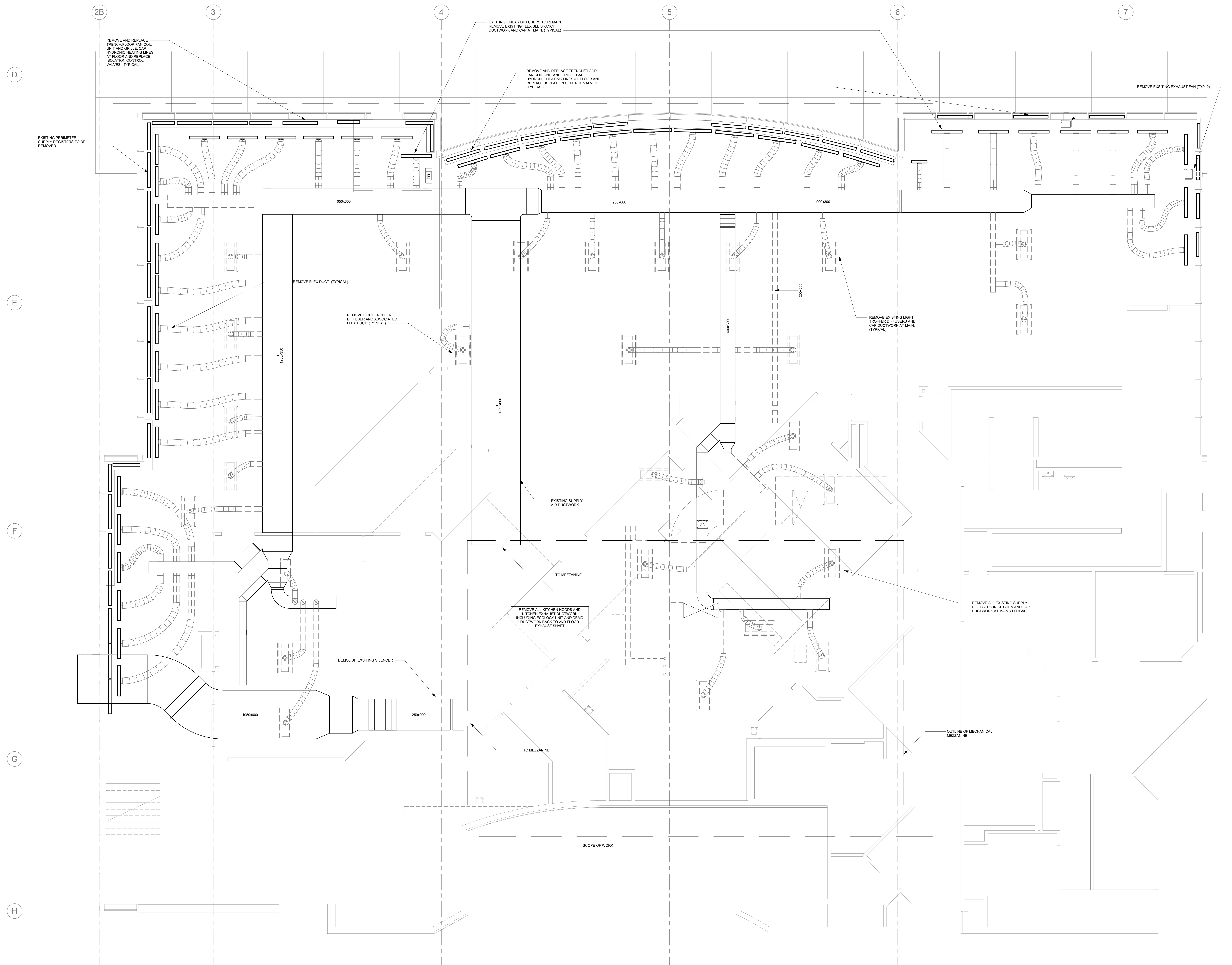
DC-M-200

No.	Date	Description	ISSUED
1	23/08/2022	ISSUED FOR CLASS D COSTING	
2	17/03/2023	ISSUED FOR 75% DESIGN REVIEW	
3	02/05/2023	ISSUED FOR 95% DESIGN REVIEW	
6	14/07/2023	ISSUED FOR 95% DESIGN DEVELOPMENT	
7	25/08/2023	ISSUED FOR APPROVAL	
8	02/01/2024	ISSUED FOR TENDER	



			ISSUED
No.	Date	Description	
1	23/08/2022	ISSUED FOR CLASS D COSTING	
2	17/03/2023	ISSUED FOR 75% DESIGN REVIEW	
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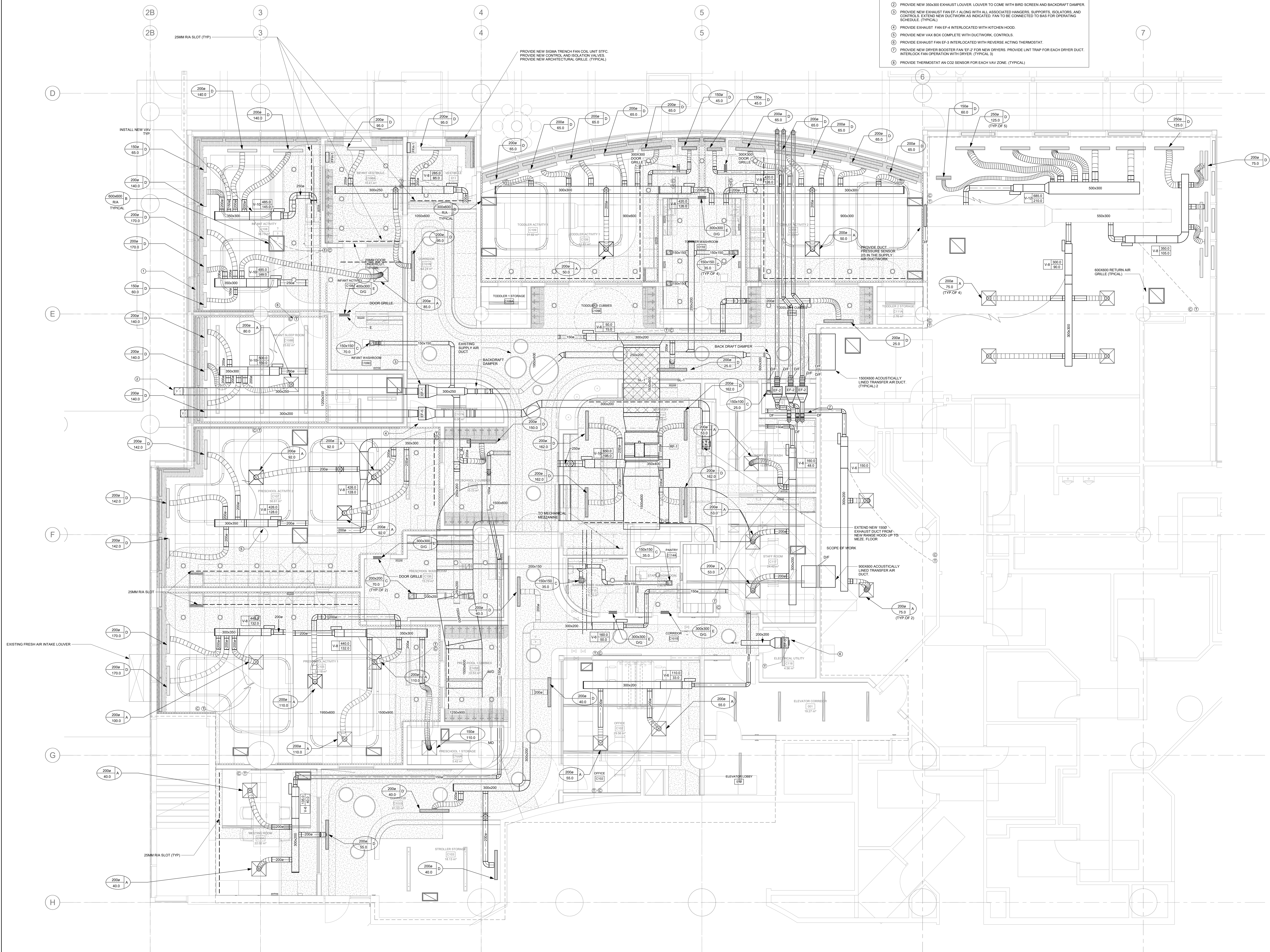
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GENERAL NOTES

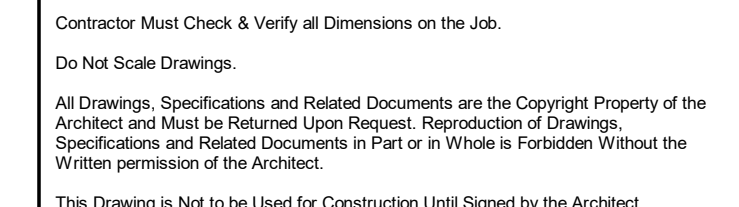
- REPLACE EXISTING PERIMETER BILL REGISTERS WITH NEW TYPE 'L' REGISTERS. NEW REGISTER LENGTHS AND WIDTH TO MATCH EXISTING UNITS. (TYPICAL)
- PROVIDE NEW 350x300 EXHAUST LOUVER. LOUVER TO COME WITH BIRD SCREEN AND BACKDRAFT DAMPER.
- PROVIDE NEW EXHAUST FAN EF-1 ALONG WITH ALL ASSOCIATED HANGERS, SUPPORTS, ISOLATORS, AND CONTROLS. EXTEND NEW DUCTWORK AS INDICATED. FAN TO BE CONNECTED TO BAS FOR OPERATING SCHEDULE. (TYPICAL)
- PROVIDE EXHAUST FAN EF-4 INTERLOCATED WITH KITCHEN HOOD.
- PROVIDE NEW VAV BOX COMPLETE WITH DUCTWORK, CONTROLS.
- PROVIDE EXHAUST FAN EF-3 INTERLOCATED WITH REVERSE ACTING THERMOSTAT.
- PROVIDE NEW DRYER BOOSTER FAN EF-2 FOR NEW DRYERS. PROVIDE LINT TRAP FOR EACH DRYER DUCT. INTERLOCK FAN OPERATION WITH DRYER. (TYPICAL)
- PROVIDE THERMOSTAT AN CO2 SENSOR FOR EACH VAV ZONE. (TYPICAL)

PROVIDE NEW SIGMA TRENCH FAN COIL UNIT STFC.
PROVIDE NEW CONTROL AND ISOLATION VALVES.
PROVIDE NEW ARCHITECTURAL GRILLE. (TYPICAL)



No.	Date	Description
1	23/08/2022	ISSUED FOR CLASS D COSTING
2	17/03/2023	ISSUED FOR 50% DESIGN REVIEW
3	02/05/2023	ISSUED FOR 90% DESIGN REVIEW
6	14/07/2023	ISSUED FOR 95% DESIGN DEVELOPMENT
7	25/08/2023	ISSUED FOR APPROVAL
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FANS											
TAG	AREA SERVED	FUNCTION	MFG.	MODEL	AIRFLOW (L/S)	ESP (Pa)	WEIGHT (LBS)	ELEC.	MCA	STARTER	REMARKS
EF-1	WASHROOMS	SAN. EXHAUST	COOK	GNVF-700	410	150	40	120V160	4.4	BAS	C/W SPEED CONTROLLER, VIBRATION ISOLATORS, BACKDRAFT DAMPER, CONNECT TO BAS FOR CONTROLS AND MONITORING.
EF-2	LAUNDRY	DRYER BOOSTER	REVERSOMATIC	TL0200	75	100	-	120V160	0.70	DRYER	C/W SPEED CONTROLLER, VIBRATION ISOLATORS, BACKDRAFT DAMPER, LINT TRAP, INTERLOCK WITH DRYER OPERATION.
EF-3	ELECTICAL	TRANSFER AIR	GREENHECK	SPA200	200	75		120V160			REVERSE ACTING THERMOSTAT
EF-4	SERVERY	RANGE HOOD EXHAUST	BROAN	ERLE13665	300	125		120V160			3 SPEED
EF-5	SERVERY	BOOSTER FAN	COOK	GNVF-700	300	100		120V160			INTERLOCK WITH KITCHEN HOOD FAN EF-4
RF-1	SF-1	RETURN AIR FAN	COOK	4025QN-B	18000	150	657	575/360	9.0	BAS	C/W VFD, MOTOR COVER, VIBRATION ISOLATORS, NEMA 1 DISCONNECT, INTERLOCK WITH EXISTING AIR HANDLER FOR VAV OPERATION.

SILENCER SCHEDULE

TAG	SYSTEM	LOCATION	MANUFACTURER	MODEL No.	AIR FLOW (L/S)	AIR VELOCITY (M/S)	PRESS. DROP (Pa)	MODULE SIZE (MM)			CITY OF PIECES	DYNAMIC INSERTION LOSS (dB) [AIRFLOW GENERATED NOISE (dB)]								REMARKS
								W	H	L		63 Hz	125 Hz	250 Hz	500 Hz	1K Hz	2K Hz	4K Hz	8K Hz	
SL-1	RETURN AIR	RETURN AIR DUCT	EH PRICE	RMX100VE	8495	5.7	62	2000	750	2700	X	16	25	32	44	34	22	16	12	22GA PERF LINER, FIBERGLASS, 2" SLIP INLET, 2" SLIP OUTLET
NOTES:																				

VARIABLE AIR VOLUME BOX SCHEDULE

TAG	MANUFACTURER	MODEL No. (PNEUMATIC OR DIGITAL)	INLET SIZE (MM)	FLOW RANGE (L/S)		REMARKS
				MIN	MAX	
V-4	EH PRICE	SOXV-8000	100	21	189	TERMINAL UNITS SILENCER
V-6	EH PRICE	SOXV-8000	150	31	260	TERMINAL UNITS SILENCER
V-8	EH PRICE	SOXV-8000	200	59	519	TERMINAL UNITS SILENCER
V-10	EH PRICE	SOXV-8000	250	99	850	TERMINAL UNITS SILENCER
V-12	EH PRICE	SOXV-8000	300	142	1227	TERMINAL UNITS SILENCER
V-14	EH PRICE	SOXV-8000	350	203	1746	TERMINAL UNITS SILENCER
NOTES: THE CURRENT FLOW RANGE VALUES ARE DIGITAL, IF USING PNEUMATIC PLEASE CHANGE ACCORDINGLY.						

DIFFUSER & GRILLE SCHEDULE

TAG	UNIT			DAMPER		MATERIAL	FINISH	REMARKS
	MANUFACTURER	MODEL No.	APPLICATION	PART OF UNIT	REMOTE IN DUCT			
A	E.H. PRICE	SPD	SUPPLY	N	Y	ALUMINUM	WHITE	
B	E.H. PRICE	80-EGG CRATE GRILLE	RETURN	N	N	ALUMINUM	WHITE	
C	E.H. PRICE	80-EGG CRATE GRILLE	EXHAUST	Y	N	ALUMINUM	WHITE	
D	E.H. PRICE	SDS	SUPPLY	Y	N	ALUMINUM	WHITE	25mm 1-SLOT LINEAR SLOT DIFFUSER, SDB PLENUM FACE OPERATED BALANCING DAMPER
E	E.H. PRICE	ATG	DOOR GRILLE	N	N	ALUMINUM	WHITE	SIGHT-PROOF DOOR TRANSFER GRILLE
NOTES:								

ELECTRIC HEATER SCHEDULE

TAG	TYPE	MANUFACTURER	MODEL	ELECTRICAL		LOCAL OR BAS CONTROL	REMARKS
				CAPACITY (KW)	VOLTAGE		
FPH-1	FORCE FLOW HEATER	OUELLET	OAC-2006-T	2	208V160	BAS	C/W ROOM THERMOSTAT
NOTES:							

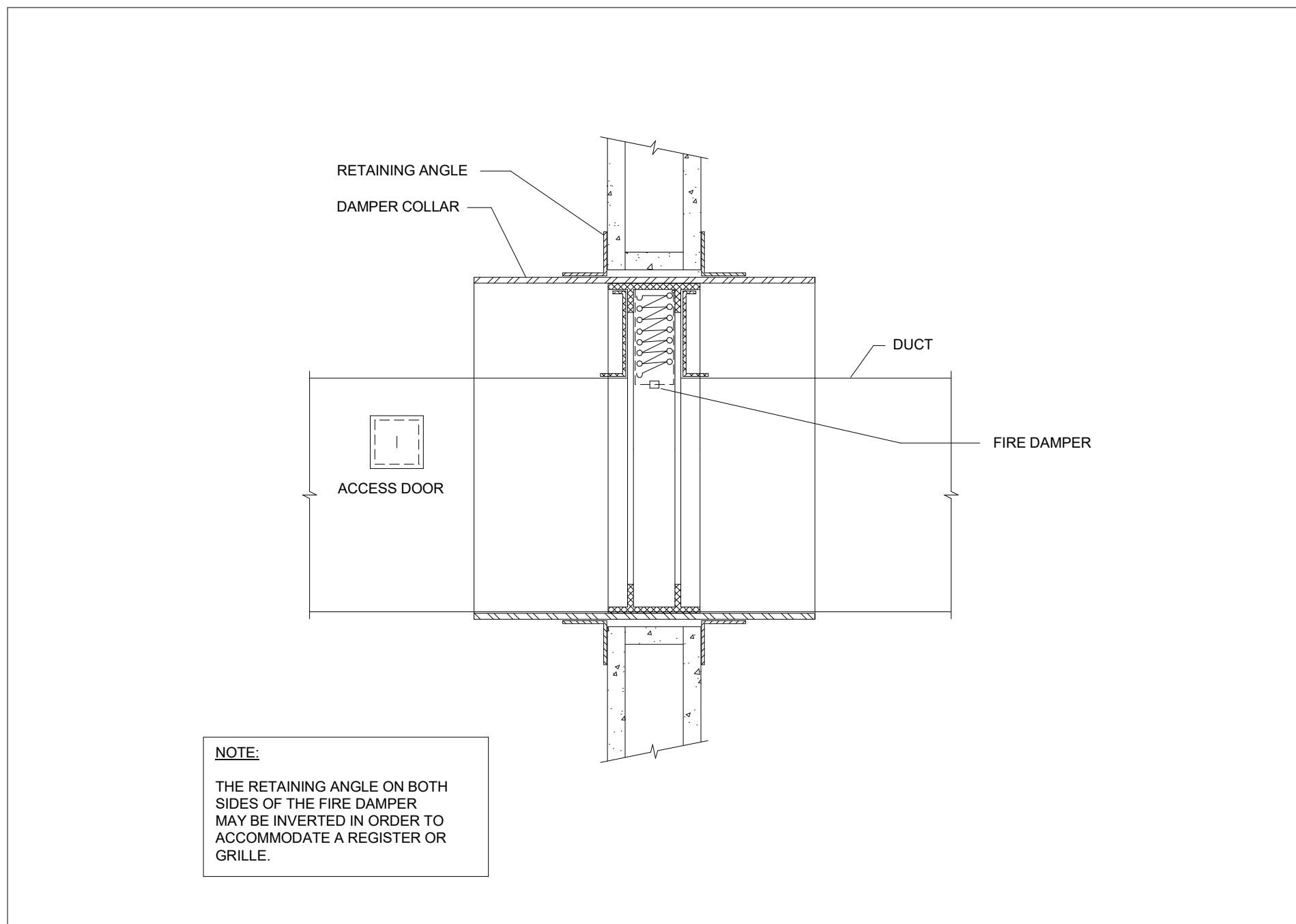
GREASE INTERCEPTOR

GREASE INTERCEPTOR @L1 CALCULATION:
3-COMPARTMENT SINK: VOLUME = 366mmx406mmx254mm x 3 = 29.1 GALLONS
1 MINUTE DRAIN DOWN TIME
FLOW = 0.75(29.1/1)
FLOW = 21.83 GPM
DISHWASHER FLOW: 15 GPM
TOTAL FLOW: 15 + 21.83 = 36.83 GPM
GREASE INTERCEPTOR SHALL BE SIZED @ 50 GPM
GREASE INTERCEPTOR @L1 SHALL BE WATTS WD-150, PROVIDE EXTENSION AS REQUIRED

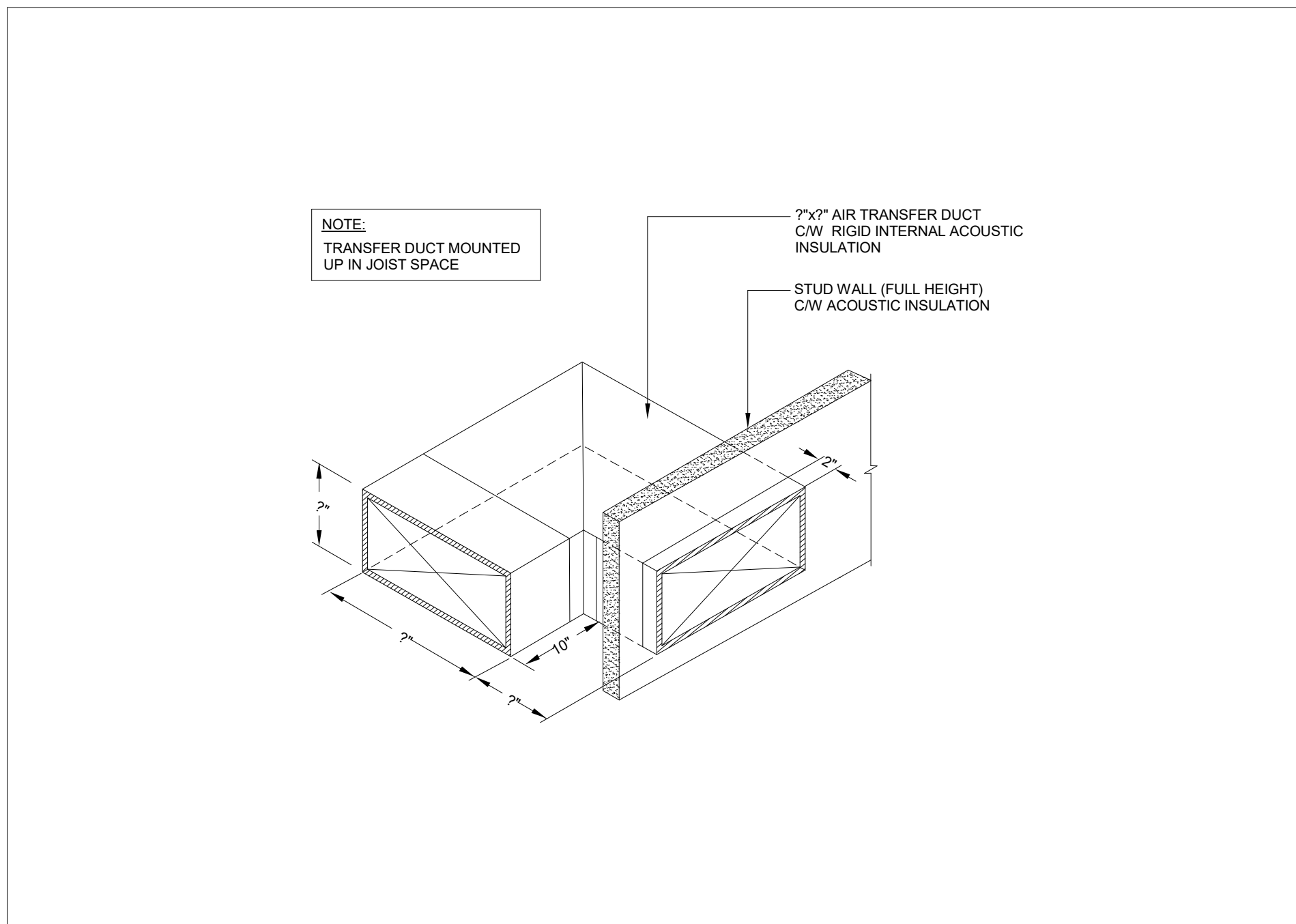
CONTROLS CONTRACTOR

BUILDING AUTOMATION SYSTEM SHALL BE BY BASE BUILDING CONTROLS CONTRACTOR (ANSWORTH)

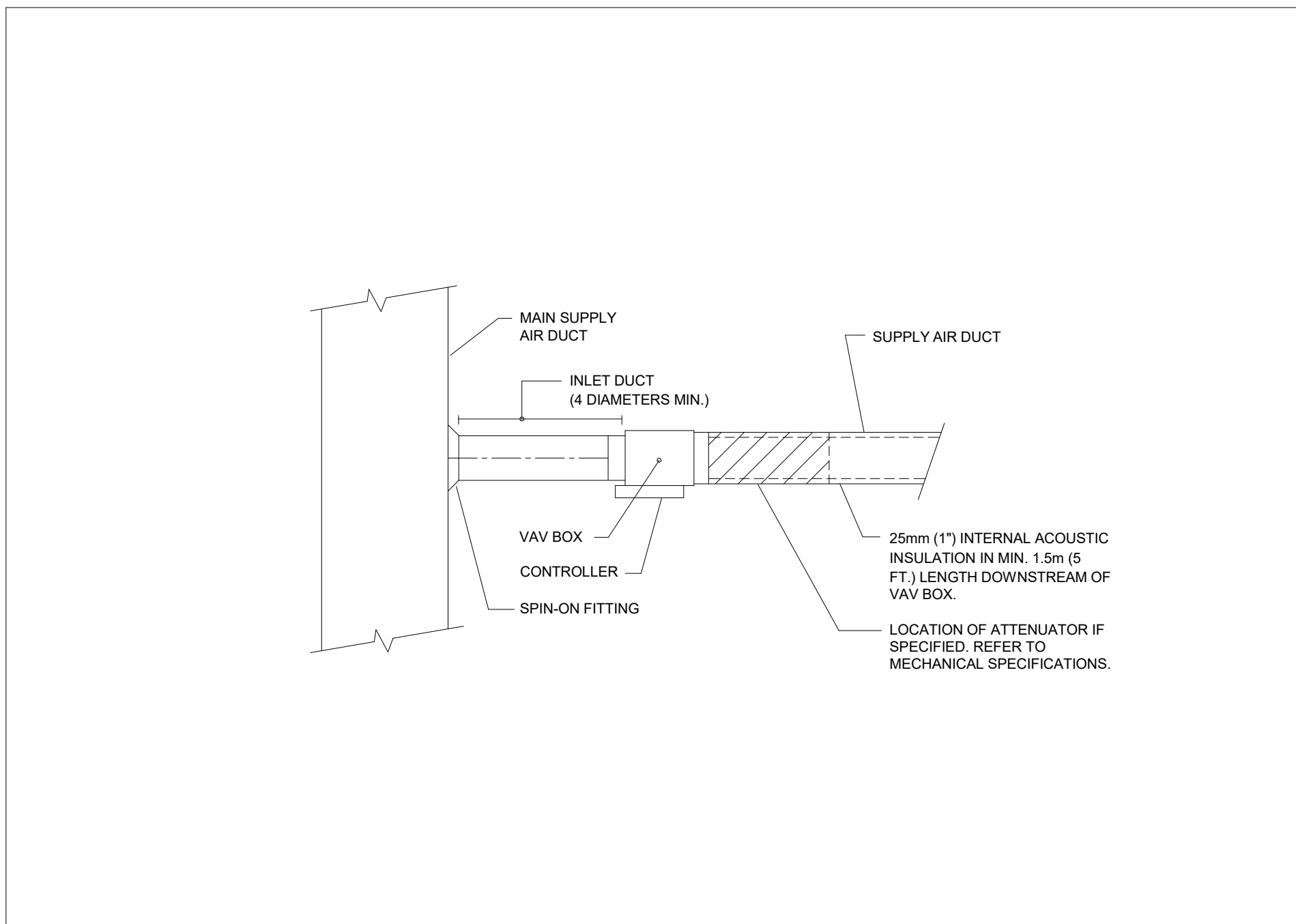
No.	Date	Description	ISSUED
1	23/08/2022	ISSUED FOR CLASS D COSTING	
2	17/03/2023	ISSUED FOR 5% DESIGN REVIEW	
3	02/05/2023	ISSUED FOR 95% DESIGN REVIEW	
6	14/07/2023	ISSUED FOR 95% DESIGN DEVELOPMENT	
7	25/08/2023	ISSUED FOR APPROVAL	
8	02/01/2024	ISSUED FOR TENDER	



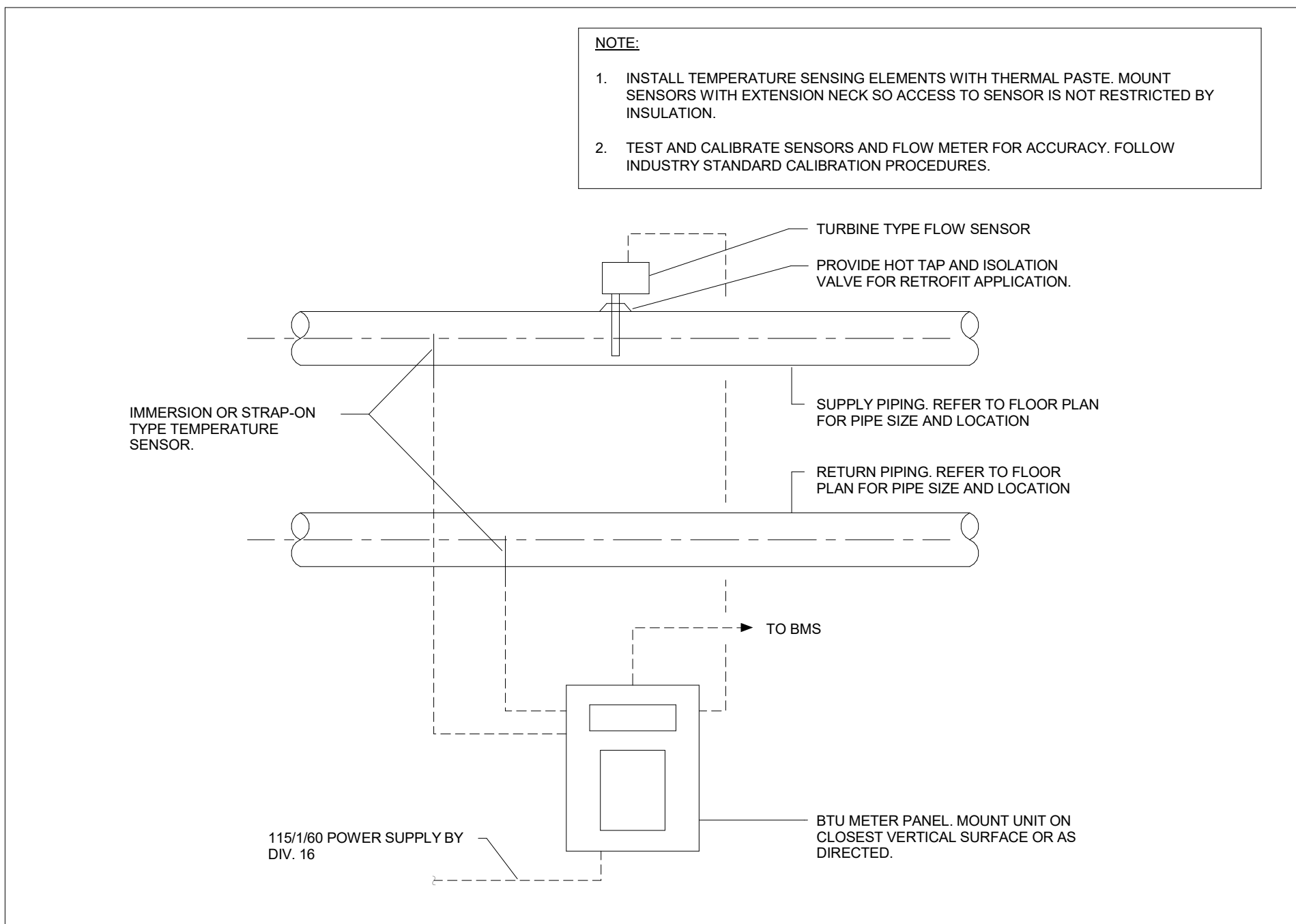
1 FIRE DAMPER INSTALLATION DETAIL
M-500/500 N.T.S.



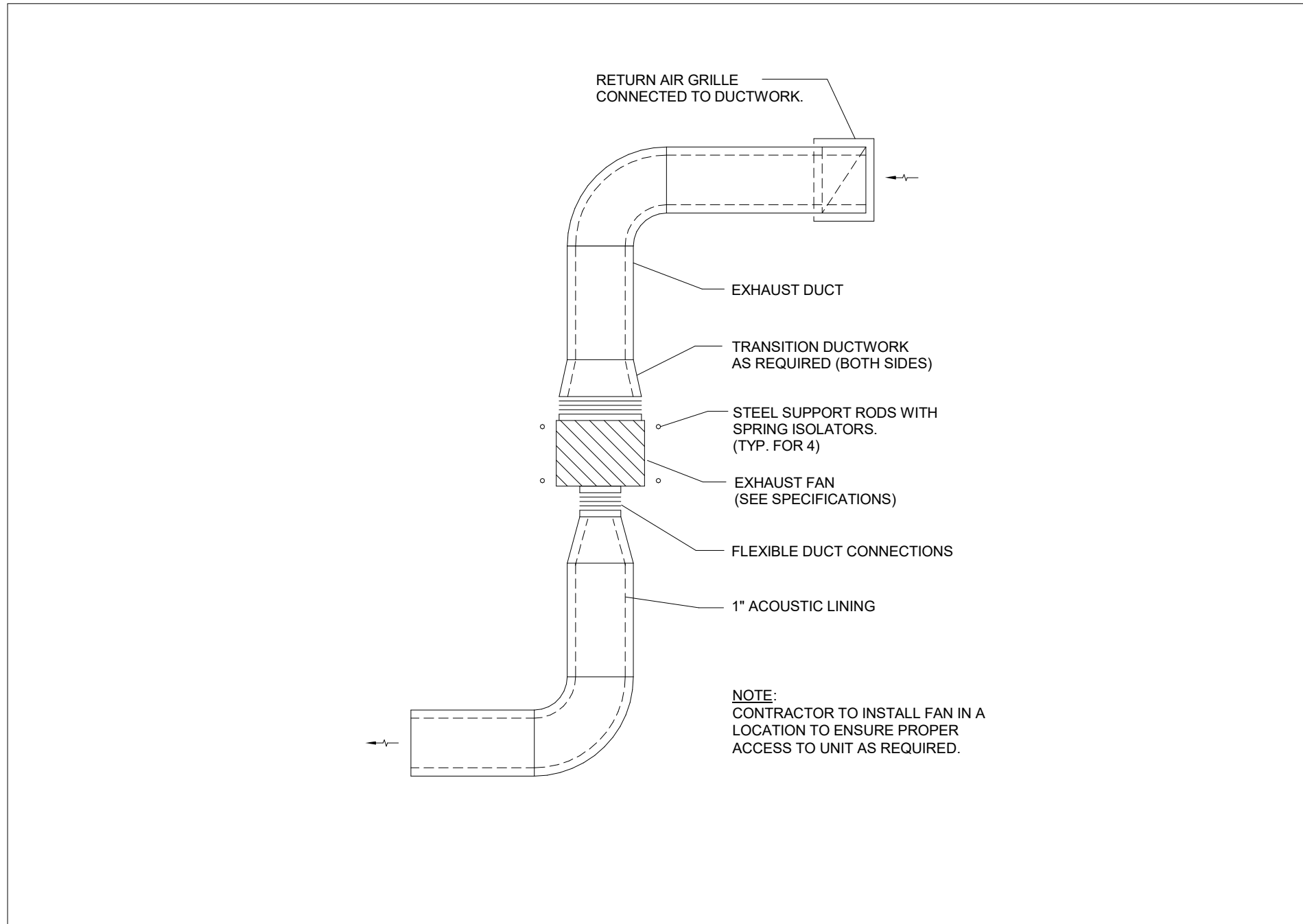
2 TRANSFER AIR DUCT DETAIL
M-500 N.T.S.



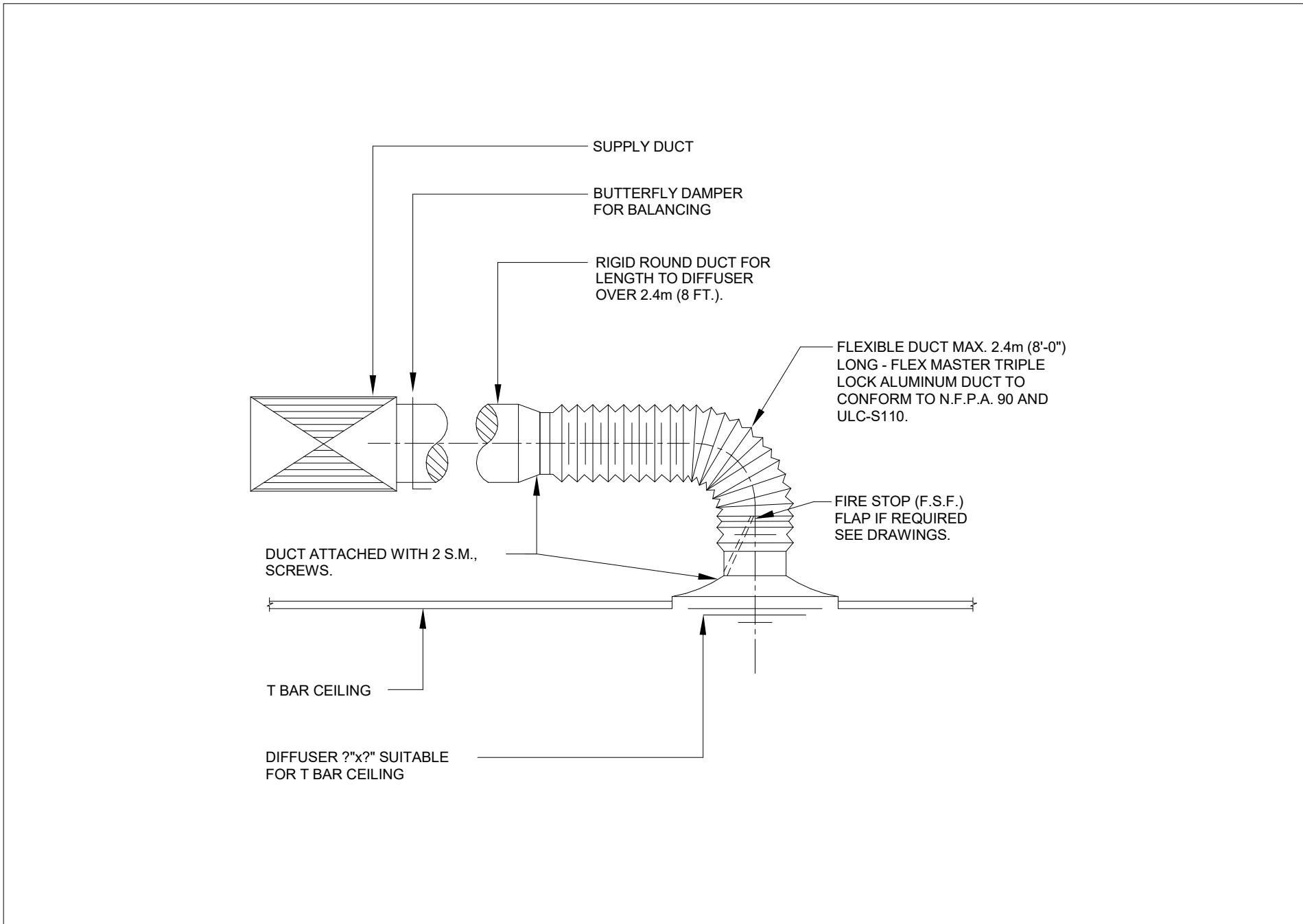
3 VAV BOX DETAIL
M-500 N.T.S.



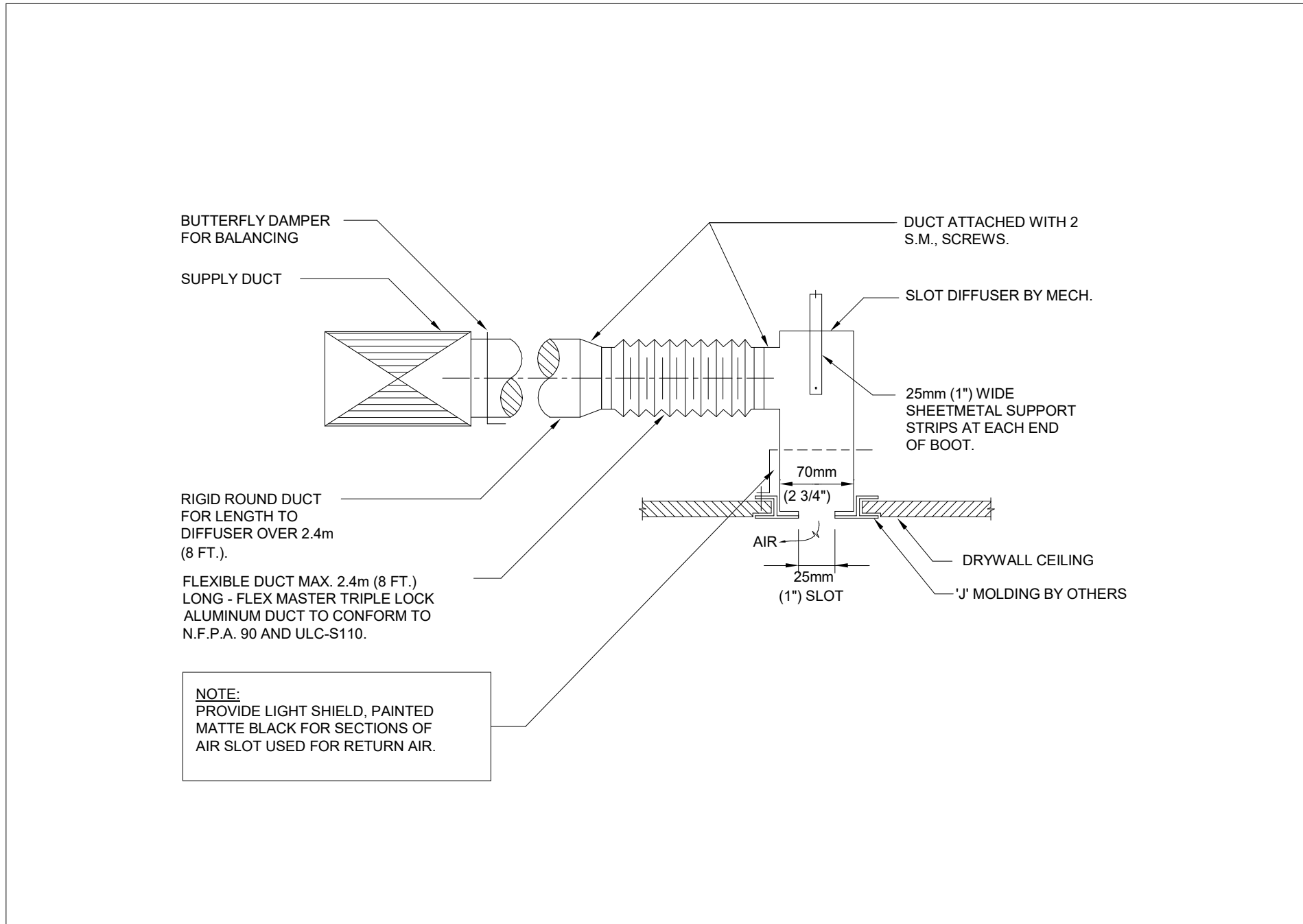
4 TYPICAL BTU METER CONNECTION DETAIL
M-500 N.T.S.



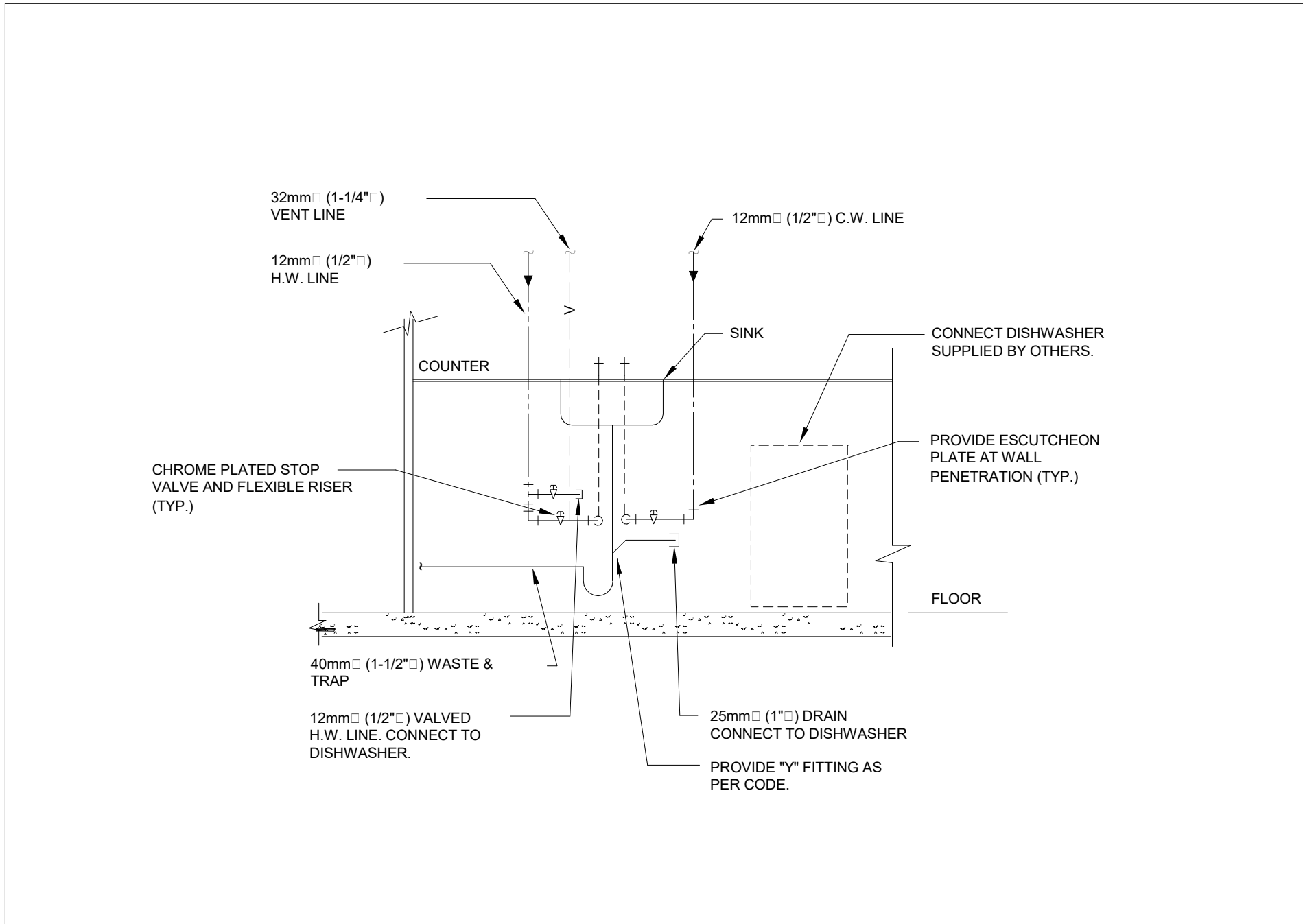
5 DETAIL OF EXHAUST FAN
M-500 N.T.S.



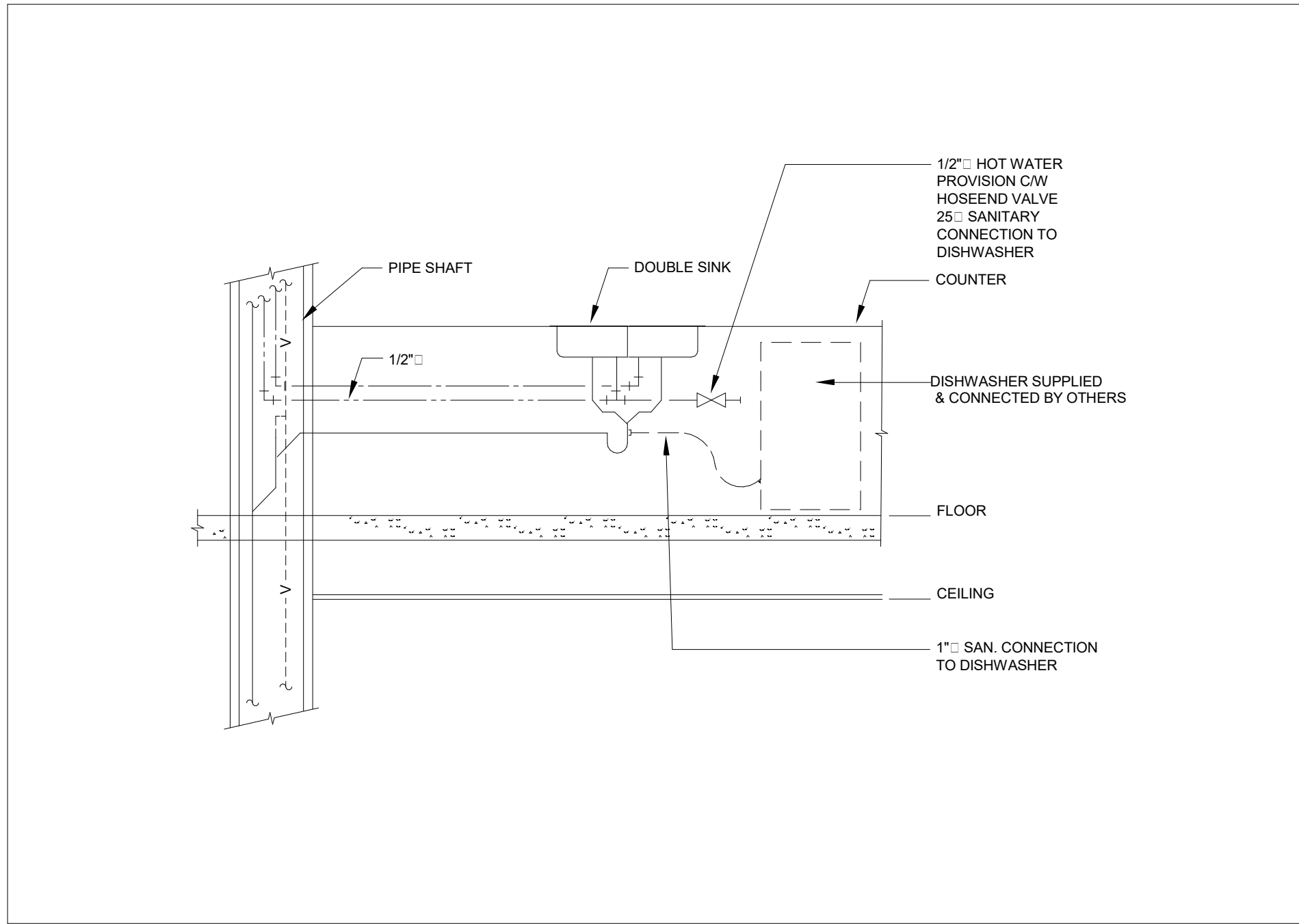
6 TYPICAL SUPPLY DIFFUSER CONNECTION
M-500 N.T.S.



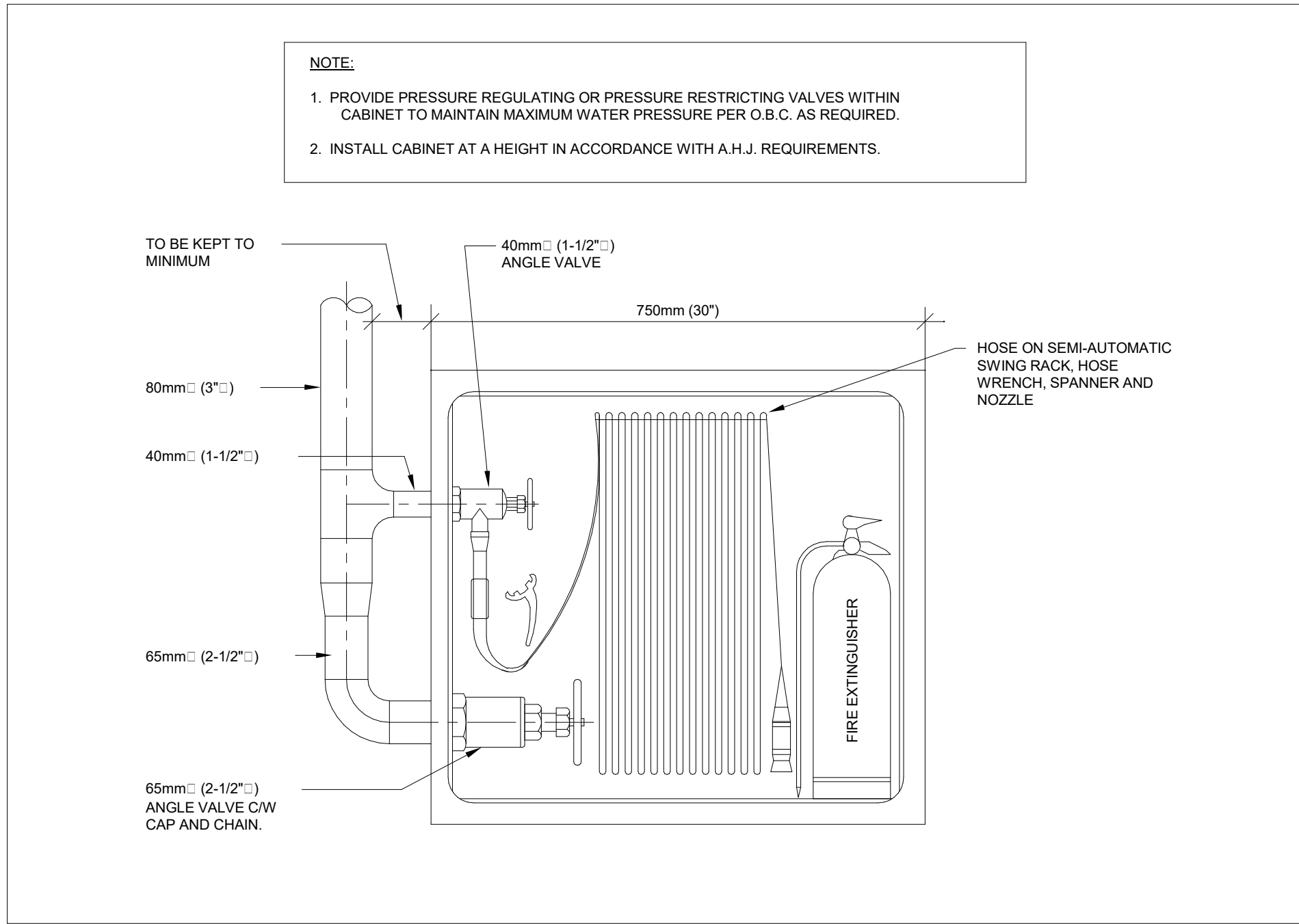
7 TYPICAL SLOT DIFFUSER CONNECTION DETAIL
M-500 N.T.S.



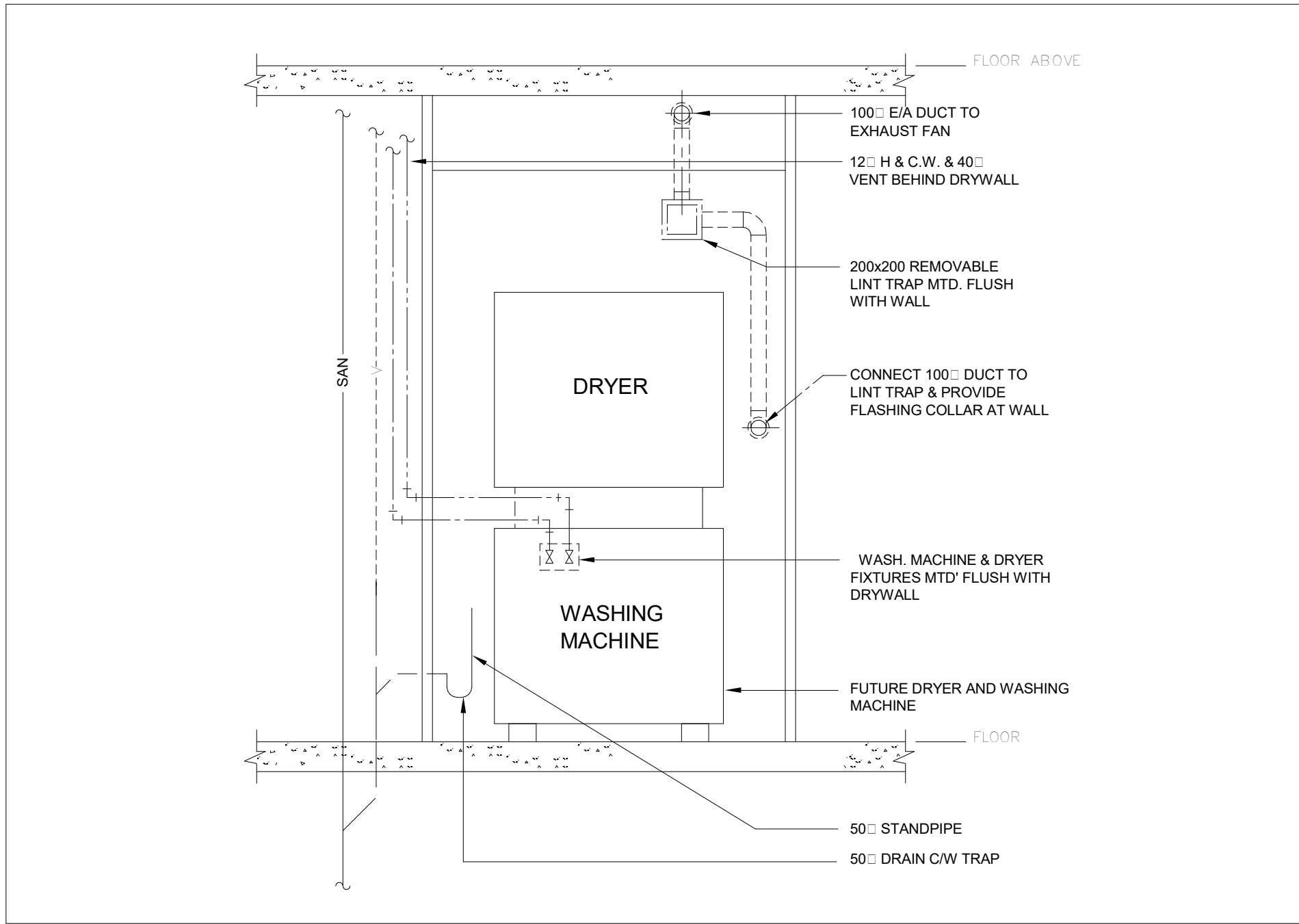
8 SINK PIPING CONNECTION DETAIL
M-500 N.T.S.



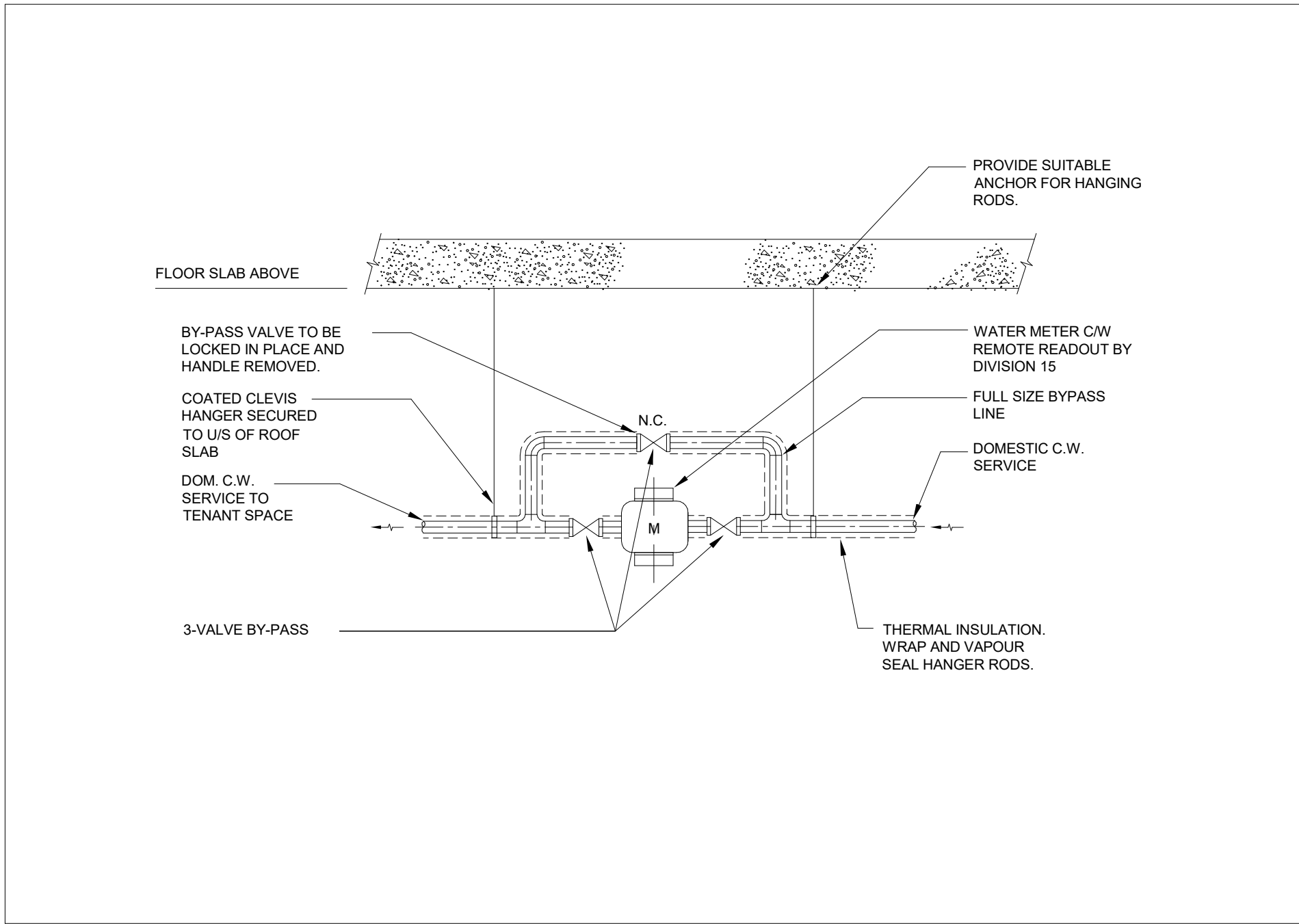
9 DISHWASHER PIPING CONNECTION DETAIL
M-500 N.T.S.



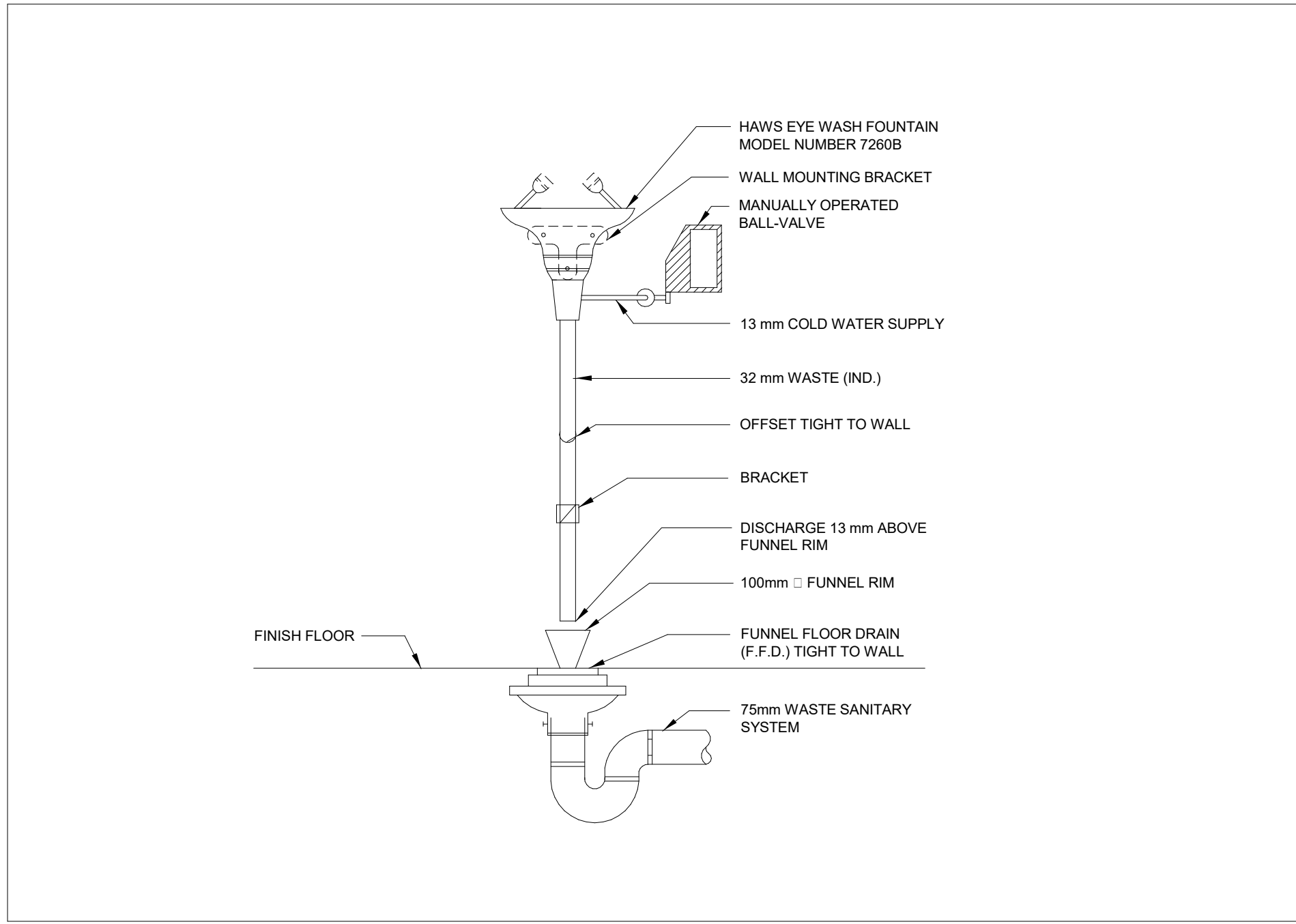
10 FIRE HOSE CABINET DETAIL
M-500 N.T.S.



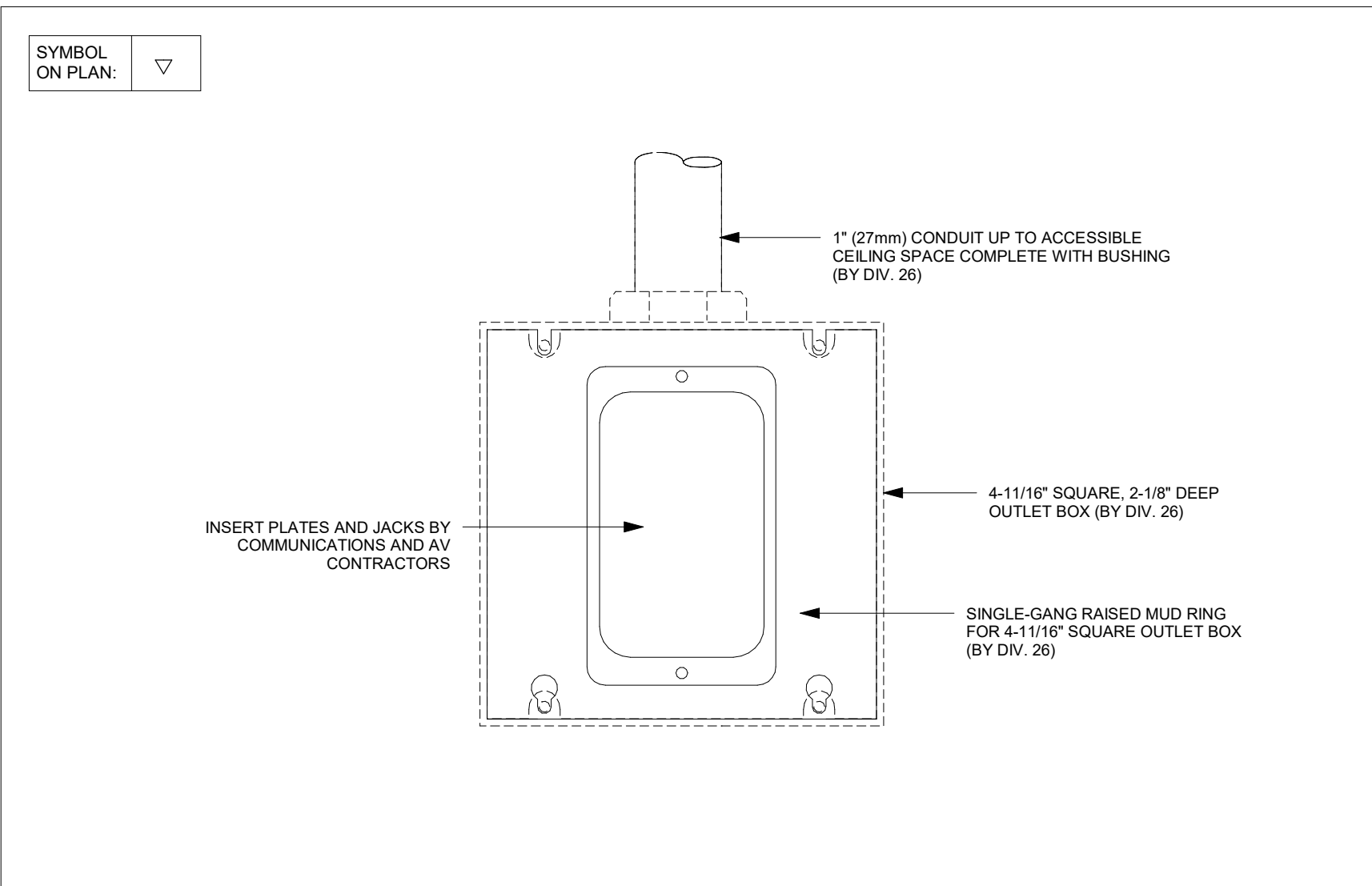
11 WASHING & DRYER CONNECTION DETAIL
M-500 N.T.S.



12 CHECK METER INSTALLATION DETAIL
M-500 N.T.S.



13 DETAIL OF EYE WASH SYSTEM
M-500 N.T.S.



























































1 TYPICAL WALL OUTLET LOCATION FOR COMMUNICATIONS
E-001 NTS

LIGHTING LEGEND		EXISTING DEVICES ARE TONED
	2' x 2'	LED FLUORESCENT LUMINAIRE - RECESSED, CEILING, SURFACE, OR SUSPENDED (NEW or EXISTING IN RELOCATED POSITION)
	1' x 4'	
	2' x 4'	
		DIAGONAL DENOTES BASE BUILDING FIXTURE
		EXISTING BASE BUILDING FLUORESCENT LUMINAIRE TO REMAIN
		EXISTING BASE BUILDING FLUORESCENT LUMINAIRE TO BE REMOVED
		LED FLUORESCENT LUMINAIRE - WALL MOUNTED
		LUMINAIRE - RECESSED FOR CEILING MOUNTED DOWNLIGHT
		SINGLE HEAD
		DOUBLE HEAD
		MULTI-HEAD - RECESSED OR CEILING MOUNTED
		TRIPLI HEAD
		LUMINAIRES - WALL MOUNTED
		LUMINAIRE - WALL WASHER/ ADJUSTABLE LUMINAIRE
		LUMINAIRE - STEP LIGHT
		LUMINAIRE - SUSPENDED / PENDANTS
		POLE MOUNTED LUMINAIRE
		ILLUMINATED BOLLARD
		LINEAR TRACK (w/ TRACK HEADS - QUANTITY OF TRACK HEADS AS PER LUMINAIRE SCHEDULE)
		RECESSED LUMINAIRE ON LIFE SAFETY POWER
		LUMINAIRE USED AS NIGHT LIGHT
		COVE, UNDERCABINET, AND/OR INTEGRATED LINEAR LIGHTING STRIP - LENGTH TO BE FIELD MEASURED
		LUMINAIRE DESIGNATOR LETTER DENOTES TYPE. REFER TO LUMINAIRE SCHEDULE.
		BATTERY POWER EMERGENCY LIGHTING:
		WALL MOUNTED - EMERGENCY REMOTE LIGHTING HEAD, QUANTITY OF HEADS AS INDICATED
		CEILING MOUNTED - EMERGENCY REMOTE LIGHTING HEAD, QUANTITY OF HEADS AS INDICATED
		EMERGENCY LIGHTING BATTERY UNIT (w/ REMOTE LIGHTING HEADS)
		TAG 'V' INDICATES CIRCUITING FOR REMOTE HEADS.
		EXIT SIGNS:
		CEILING MOUNTED
		END MOUNTED
		WALL MOUNTED
		WALL MOUNTED WITH REMOTE HEADS
		TAG 'W' DENOTES EXIT SIGN TYPE WHERE MULTIPLE TYPES ARE USED. REFER TO LUMINAIRE SCHEDULE.
		SWITCHES AND SENSORS:
		DENOTES SWITCH, TAG 'V' INDICATES SWITCH TYPE/ACCESSORIES. '3' - 3-WAY, '4' - 4-WAY, 'V' - KEY, 'V' - LOW VOLTAGE, 'V' - MASTER, 'V' - VARIABLE SPEED
		DENOTES DIMMER SWITCH, TAG 'V' INDICATES SWITCH TYPE/ACCESSORIES. '3' - 3-WAY DIMMER, 'V' - 4-WAY DIMMER, 'V' - LOW VOLTAGE DIMMER, 'V' - OCCUPANCY SENSOR
		DENOTES SWITCH GANGED UNDER COMMON COVERPLATE (2, 3 & 4 SHOWN)
		VARIABLE SPEED SWITCH
		CEILING or WALL MOUNTED OCCUPANCY SENSOR. 'V' DENOTES OCCUPANCY SENSOR TYPE.
		CEILING or WALL MOUNTED DAY LIGHT SENSOR. 'V' DENOTES OCCUPANCY SENSOR TYPE.
		PHOTOCELL
		TIME SWITCH
		LINE VOLTAGE THERMOSTAT
		PUSH BUTTON STATION
		EMERGENCY STOP BUTTON - MUSHROOM STYLE
		OCCUPANCY SENSOR SWITCH

PANEL AND CIRCUIT NUMBER DESIGNATIONS	
PANEL DESIGNATION	
PP - 2 A 03	
FLOOR DESIGNATION	
PANEL TAG (A, B, C, D ETC.)	
VOLTAGE	
SWB - MAIN SWITCHBOARD	
MCC - MOTOR CONTROL CENTER	
DP - DISTRIBUTION PANEL	
PP - POWER PANEL	
LP - LIGHTING PANEL	
LDP - LIGHTING DIMMING PANEL	
ATS - TRANSFER SWITCH	
TX - TRANSFORMER	
RP - LIGHTING RELAY PANEL	
PANEL TYPE	
EXAMPLE: 2A03 10-3-R1	DENOTES ELECTRICAL EQUIPMENT IS CONNECTED TO: PANEL 2A03, CIRCUIT #10, SWITCH GROUP #1, RELAY #1

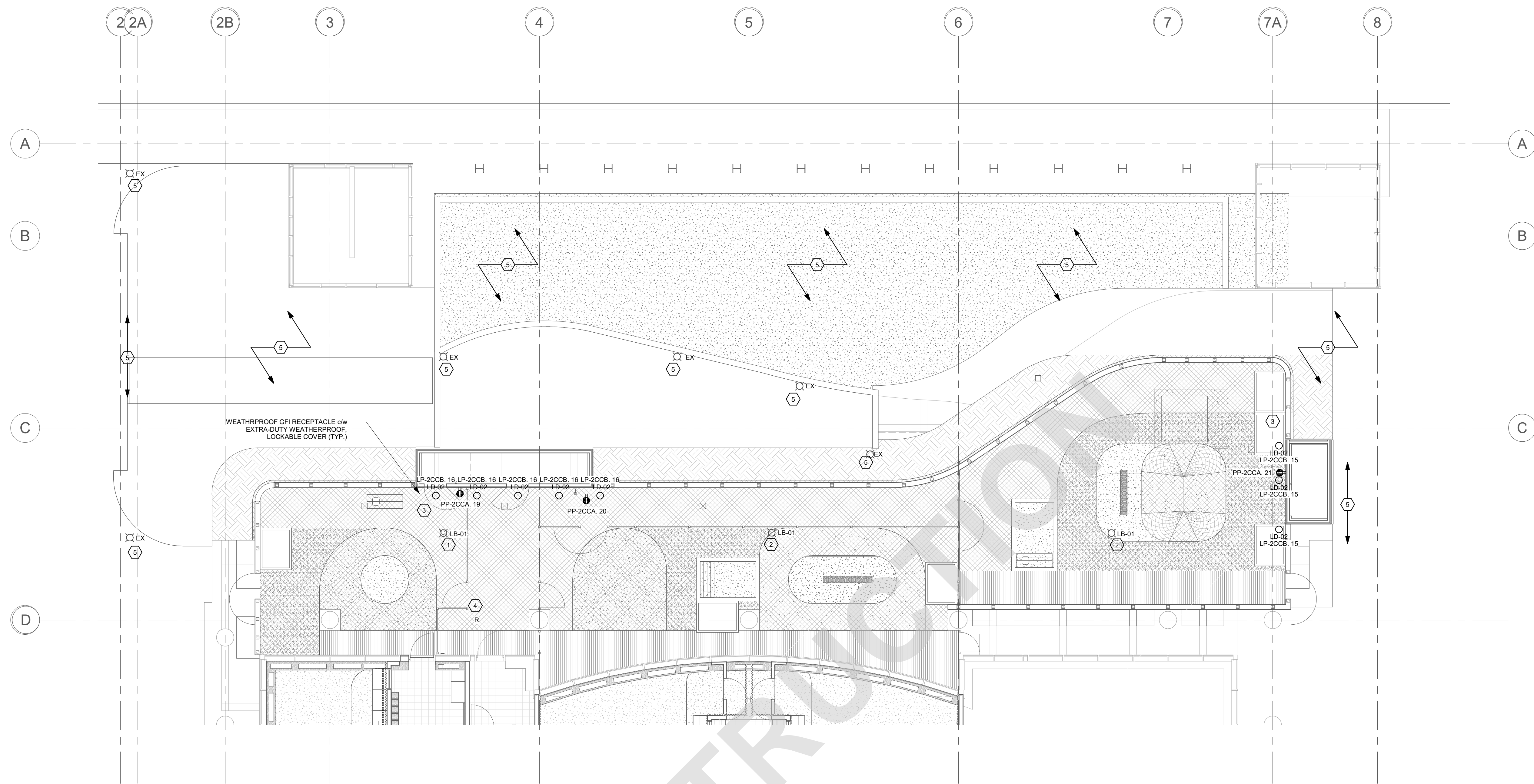
ELECTRICAL LEGEND		EXISTING DEVICES ARE TONED
	120V, SINGLE PHASE DIRECT CONNECTION	
	208V, SINGLE PHASE DIRECT CONNECTION	
	208V, THREE PHASE DIRECT CONNECTION	
	600V, SINGLE PHASE DIRECT CONNECTION	
	600V, THREE PHASE DIRECT CONNECTION	
	DISCONNECT SWITCH - NON-FUSED	
	DISCONNECT SWITCH - FUSED	
	DISCONNECT SWITCH - PLUG IN	
	DISTRIBUTION BOX, 'JB' DENOTES JUNCTION BOX OR PULL BOX, 'LB' DENOTES LIGHTING, 'W' DENOTES POWER	
	DISTRIBUTION BOX, 'JB' DENOTES JUNCTION BOX OR PULL BOX, 'EL' DENOTES EMERGENCY LIGHTING, 'EP' DENOTES EMERGENCY POWER	
	ELECTRICAL PANELBOARD - SURFACE MOUNTED	
	ELECTRICAL PANELBOARD - RECESSED	
	UTILITY PANELBOARD (w/ FIRE, COMMS etc.) - SURFACE MOUNTED	
	UTILITY PANELBOARD (w/ FIRE, COMMS etc.) - RECESSED	
	COMBINATION MOTOR STARTER	
	LOOSE MOTOR STARTER	
	CONTRACTOR	
	TRANSFORMER - FLOOR MOUNTED, SIZE AND TYPE AS INDICATED.	
	TRANSFORMER - SUSPENDED, SIZE AND TYPE AS INDICATED.	
	EMERGENCY POWER SHUTOFF PUSHBUTTON	
	DUPLEX, 1-GANG RECEPTACLE - 5-15R	
	DUPLEX, 1-GANG RECEPTACLE - CEILING MOUNTED, 5-15R UNLESS NOTED	
	DUPLEX, 1-GANG RECEPTACLE - FLOOR MOUNTED, 5-15R UNLESS NOTED	
	DUPLEX, 2-GANG RECEPTACLE - FLOOR MOUNTED, 5-15R UNLESS NOTED	
	DUPLEX, 1-GANG RECEPTACLE - 5-20R	
	DUPLEX, 1-GANG RECEPTACLE - 5-15R	
	2-GANG MULTI-OUTLET ASSEMBLY - CEILING MOUNTED	
	QUAD, 2-GANG RECEPTACLE, 5-15R UNLESS NOTED	
	QUAD, 3-GANG RECEPTACLE, 5-15R UNLESS NOTED - FLOOR MOUNTED	
	QUAD, 3-GANG RECEPTACLE, 5-15R UNLESS NOTED - CEILING MOUNTED	
	MULTI-GANG OUTLET ASSEMBLY TYPE - SEE CONFIGURATION DETAILS	
	GROUND FAULT INTERRUPTER (GFI) RECEPTACLE 5-20R, 50A UNLESS NOTED OTHERWISE	
	DUPLEX, 1-GANG RECEPTACLE, 5-15R	
	SPECIAL RECEPTACLE - # INDICATES TYPE 'SINGLE RECEPTACLE OUTLET - RATING AS NOTED'	
	SPLIT RECEPTACLE - 5-15R	
	SPLIT RECEPTACLE - 5-20R	
	SINGLE TWISTLOCK RECEPTACLE - 20A	
	SINGLE TWISTLOCK RECEPTACLE - 15A, 120V	
	SINGLE SPECIALTY TWISTLOCK RECEPTACLE - # INDICATES TYPE	
	STOVE RECEPTACLE - 14-50R, 125/250V, 50A	
	DRYER RECEPTACLE - 14-30R, 125/250V, 30A	
	3 POLE 4 WIRE RECEPTACLE - 15A, 120V OR AS NOTED	
	SINGLE RECEPTACLE - 15A, 120V OR AS NOTED	
	SINGLE RECEPTACLE - FLOOR MOUNTED - 15A, 120V OR AS NOTED	
	COMBINATION OUTLET - FLOOR MOUNTED - SURFACE - AS DETAILED	
	COMBINATION OUTLET - FLOOR MOUNTED - RECESSED - AS DETAILED	
	GANG BOX AS NOTED	
	POWER CONDUIT	
	POWER CONDUIT UNDER FLOOR	
	COMMUNICATIONS CONDUIT	
	COMMUNICATIONS CONDUIT UNDER FLOOR	
	COMMUNICATIONS CONDUIT SLAB	
	COMMUNICATIONS CABLE	
	GROUND CONDUIT	
	AFI - ARC FAULT INTERRUPTER	
	AF - AMP FRAME	
	AV - AUDIOVISUAL DEVICE	
	CH - CHUTE HEIGHT, 12" OR AS NOTED	
	CLO - CEILING	
	DW - DISHWASHER	
	GFI - GROUND FAULT INTERRUPTER	
	GND - GROUND	
	HK - HOUSE KEEPING	
	IF - INTERMEDIATE DISTRIBUTION FRAME	
	K - KEY OPERATED	
	MCC - MAIN DISTRIBUTION FRAME	
	MM - MULTIMODE	
	N - NORMAL CIRCUIT	
	NL - NIGHT LIGHT	
	PEX - PRIVATE BRANCH EXCHANGE	
	R - TO BE REMOVED	
	RL - RELOCATED POSITION	
	RA - RETURN AIR	
	SC - SEPARATE CIRCUIT	
	SM - SINGLE MODE	
	TEMP - TELEPHONE	
	TL - TWIST LOCK	
	TLN - TUBER RESISTANT	
	ULN - UNDERGROUND	
	UNL - UNLESS OTHERWISE NOTED	
	UTP - UNSHIELDED TWISTED PAIR	
	W - WIRE GUARD	
	WP - WEATHER PROOF	
	AF - ABOVE FINISHED FLOOR	
	AT - ABOVE TRIP	
	CD - DEDICATED CIRCUIT	
	CH - CHUTE HEIGHT, 12" OR AS NOTED	
	CIP - CONSOLIDATION POINT	
	EXP - EXPLOSION PROOF	
	GFI - GROUND FAULT CURRENT INTERRUPTER	
	GND - GROUND	
	HP - HOSPITAL GRADE	
	IS - ISOLATED GROUND	
	MCS - MULTIMEDIA COMMUNICATION SYSTEM	
	MM - MICROWAVE	
	NCS - NON-CONTRACT	
	OR - OVERHEAD	
	PAR - PAR	
	RE - TO BE RELOCATED	
	REF - REFRESHMENT	
	SA - SUPPLY AIR	
	SC - SINGLE GANG	
	SS - STAINLESS STEEL	
	TUBR - TELECOM GROUNDING BUSBAR	
	TSE - TELECOM SERVICE ENTRANCE ROOM	
	TP - TYPICAL	
	US - UNDERSIDE	
	UPS - UNINTERRUPTIBLE POWER SUPPLY	
	WAP - WIRELESS ACCESS POINT	
	WP - WEATHER PROOF	

MISCELLANEOUS LEGEND		EXISTING DEVICES ARE TONED
	REFER TO DRAWING NUMBER	
	DENOTES EXISTING DEVICE(S), WIRING OR CONDUIT TO BE REMOVED	
	DENOTES MATCHLINE	
	DENOTES CROSS SECTION DETAIL CALL OUT	
	DENOTES DETAIL CALL OUT	
	DENOTES MECHANICAL EQUIPMENT TAG	
	DENOTES PANEL FEED	
	MISCELLANEOUS DEVICES:	
	MUSIC SPEAKER - CEILING, WALL MOUNTED	
	SOUND MASKING SPEAKER	
	CONDUIT RUN UP	
	CONDUIT RUN DOWN	
	CONDUIT STUB	
	LIGHTNING PROTECTION/GROUNDING DEVICES:	
	CONNECTION POINT	
	DOWNLEAD	
	LIGHTNING TERMINAL	
	GROUNDING ROD	
	GROUND POINT	
	SURFACE RACEWAY	
	PACK POLE	
	SERVICE POLE - SERVICE POLE FEED TO FURNITURE SYSTEM	
	FEED FOR POWER AND COMMUNICATIONS TO SYSTEM FURNITURE - WALL	
	FEED FOR POWER AND COMMUNICATIONS TO SYSTEM FURNITURE - FLOOR	
	ELECTRIC BASEBOARD HEATER, SIZE AS SHOWN (208V/1PH) ALL BASEBOARDS COMPLETE WITH BUILT-IN THERMOSTAT	
	ELECTRIC PIPE TRACE HEATING CABLE - SIZE AS NOTED REFER TO PIPE TRACE SCHEDULE	
	ELECTRIC PIPE TRACE HEATING RISER CABLE - SIZE AS NOTED REFER TO PIPE TRACE SCHEDULE	
	DRYER CURRENT SENSOR	
	FORCE FLOW HEATER - SURFACE MOUNTED	
	FORCE FLOW HEATER - RECESSED MOUNTED	
	UNIT HEATER - CEILING MOUNTED	
	GROUND BAR	
	FIRE ALARM DEVICES	
	MANUAL PULL STATION	
	FIRE FIGHTER'S HANDSET	
	EVAC SPEAKER - CEILING, WALL MOUNTED	
	STROBE LIGHT - CEILING, WALL MOUNTED	
	SPEAKER/STROBE COMBINATION DEVICE - CEILING, WALL MOUNTED	
	BELL - WALL MOUNTED	
	HORN SPEAKER - CEILING, WALL MOUNTED	
	HORN SPEAKER/STROBE - CEILING, WALL MOUNTED	
	IONIZATION SMOKE DETECTOR - CEILING, WALL MOUNTED	
	SB - DENOTES CW SOLAR BASE, RB - DENOTES CW RELAY BASE	
	DUCT TYPE SMOKE DETECTOR W/REMO INDICATION	
	PHOTOELECTRIC BEAM TYPE SMOKE DETECTOR	
	HEAT DETECTOR - 130° FIXED TEMPERATURE - CEILING, WALL MOUNTED	
	HEAT DETECTOR - 180° FIXED TEMPERATURE - CEILING, WALL MOUNTED	
	HEAT DETECTOR - RATE OF RISE - CEILING, WALL MOUNTED	
	SMOKE ALARM C/W INTEGRAL STROBE LIGHT (RESIDENTIAL) CEILING MOUNTED	
	COMBINATION SMOKE ALARM/CARBON MONOXIDE (CO) DETECTOR	
	CARBON MONOXIDE DETECTOR (CO) - CEILING, WALL MOUNTED	
	REMOTE PILOT LIGHT FOR SMOKE DETECTOR - CEILING, WALL MOUNTED	
	FIRE ALARM CONNECTION TO DEVICE AS INDICATED	
	FIRE ALARM PANEL AS INDICATED - DGP, CONTROL, ANNUNCIATOR	
	FIRE DO NOT ENTER SIGN	
	FIRE ALARM LINE ISOLATION MODULE	
	FIRE ALARM END OF LINE RESISTOR	
	FIRE ALARM CONNECTION TO SMOKE DAMPER	

SYSTEMS LEGEND		EXISTING DEVICES ARE TONED
  		
DATA OUTLETS		MOUNT
	WALL	COMPLETE WITH BACKBOX, PULL CORD AND 27mm CONDUIT BACK TO THE NEAREST COMMUNICATIONS ROOM CLOSET, OR LOCAL CABLE TRAY, UNLESS SPECIFICALLY NOTED OTHERWISE. "W" DENOTES NUMBER OF OUTLETS
	FLOOR	
	CEILING	
VOICE OUTLETS		
	WALL	COMPLETE WITH BACKBOX, PULL CORD AND 27mm CONDUIT BACK TO THE NEAREST COMMUNICATIONS ROOM CLOSET, OR LOCAL CABLE TRAY, UNLESS SPECIFICALLY NOTED OTHERWISE. "W" DENOTES NUMBER OF OUTLETS
	FLOOR	
	CEILING	
DATA/VOICE OUTLETS		
	WALL	COMPLETE WITH BACKBOX, PULL CORD AND 27mm CONDUIT BACK TO THE NEAREST COMMUNICATIONS ROOM CLOSET, OR LOCAL CABLE TRAY, UNLESS SPECIFICALLY NOTED OTHERWISE. "W" DENOTES NUMBER OF OUTLETS
	FLOOR	
	CEILING	
FURNITURE OUTLETS		
	WALL	COMMUNICATIONS OUTLET - FURNITURE SYSTEM
		TELEPHONE OUTLET - FURNITURE SYSTEM
TV OUTLETS		
	WALL	COMPLETE WITH BACKBOX, PULL CORD AND 27mm CONDUIT BACK TO THE NEAREST COMMUNICATIONS ROOM CLOSET, OR LOCAL CABLE TRAY, UNLESS SPECIFICALLY NOTED OTHERWISE
	CEILING	
AUDIO/VISUAL LOCATION		
	WALL	
	CEILING	AUDIOVISUAL
WIRELESS ACCESS POINT (WAP) LOCATION		
	WALL	
	CEILING	WIRELESS ACCESS POINT (WIFI)
CONDUIT DESIGNATION		
	CONDUIT DESIGNATION	
	DATA ZONE CONDUIT	
	VOICE ZONE CONDUIT	
	CABLE TRAY AS NOTED	
	CLOCKS - CEILING & WALL MOUNT - LINES DENOTE CLOCK FACE DIRECTION	
PUBLIC ADDRESS SYSTEM LOCATION		
	WALL	
	CEILING	PUBLIC ADDRESS SYSTEM SPEAKER
SECURITY AND ACCESS DEVICES		
	WALL OR CEILING	CLOSED CIRCUIT TELEVISION (SECURITY CAMERA)
	WALL	MOTION DETECTOR - SECURITY
	CEILING	
	WALL	
	CEILING	GLASS BREAK SENSING DEVICE
		CARD READER
		DOOR CONTACT
		ELECTRIC STRIKE
		ELECTRIC LATCH
		ELECTROMAGNETIC LOCKING DEVICE (MAG LOCK)
		ELECTRIC HOLD OPEN DEVICE
		REQUEST TO EXIT DEVICE
		SECURITY KEY PAD
		DOOR BELL
		DOOR BUZZER
		DOOR CHIME
		HANDICAPPED DOOR OPERATOR
		PANIC ALARM BUTTON
		SON ALERT
		DOOR RELEASE BUTTON
		MAGNETIC DOOR HOLDER
		EMERGENCY RELEASE PULL STATION - BLUE
BARRIER-FREE WASHROOM DEVICES:		
		DOOR OPERATOR - DIRECT CONNECTION
		BARRIER-FREE DOOR OPERATOR ACTUATOR BUTTON
		DURESS ALARM BUTTON
		INTERCOM DEVICE
		SYSTEM PUSH BUTTON LOCATION
		EMERGENCY ASSISTANCE - AUDIBLE & VISUAL SIGNAL
		PUSH-TO-LOCK DOOR DEVICE

- a. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND DOCUMENTS
- b. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FINAL DEVICE LOCATIONS. IF NOT INDICATED, CONFIRM EXACT LOCATION WITH ARCHITECT
- c. NOT ALL EXISTING DEVICES AND EQUIPMENT SHOWN. ALL EXISTING DEVICES TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE.

- 1 EXISTING LIGHT STANDARD AT THIS LOCATION TO BE REMOVED
REWORK EXISTING SITE LIGHTING CIRCUIT TO SUIT INSTALLATION OF
NEW ISLAND.
- 2 EXTEND EXISTING SITE LIGHTING CIRCUIT TO SUIT INSTALLATION OF
NEW ISLAND.
- 3 PROVIDE CONTROL RELAY CW TIMELOCK AND PHOTOCELL FOR
CONTROL OF STORAGE SHED SODFIET LIGHTS.
- 4 EXISTING LIGHT POLE TO BE REMOVED. EXISTING SITE LIGHTING
CIRCUIT TO BE REWORKED AND EXTENDED TO SUIT AS NECESSARY
- 5 ALLOW FOR EXISTING BURIED SITE LIGHTING AND LANDSCAPE
RECEPTACLES AND ASSOCIATED CONDUIT/CIRCUITS TO BE REPLACED
WITH NEW AS NECESSARY TO SUIT EXTERIOR CONSTRUCTION. AND
DEMOLITION WORKS. CONDUIT SHALL NOT BE ROUTED BENEATH
SANDBOXES OR AREAS WITH EXPOSED EARTH/SOIL. NOT ALL EXISTING
LIGHT RECEPTACLES ARE LOCATED AT THE SAME LEVEL. LUGGING
AND RECEPTACLES FEED FROM EXISTING PANELS LP-04C AND RP-04C
FROM GROUND FLOOR BASEBUILDING ELECTRICAL ROOM.



1 EXTERIOR ELECTRICAL PLAN
E-101 1:100

HIDI THE **HIDI** GROUP
155 Gordon Baker Road, Suite 200
Toronto, ON M2H 3N5 Canada
t. 416 364 2100 | HIDI.com

ISSUED

No.	Date	Description
1	2022-09-23	ISSUED FOR CLASS D COSTING
2	2023-03-17	ISSUED FOR 75% DESIGN REVIEW
3	2023-05-02	ISSUED FOR 95% DESIGN REVIEW
4	2023-07-14	ISSUED FOR 95% DESIGN REVIEW
5	2023-08-23	ISSUED FOR APPROVAL
6	2024-02-01	ISSUED FOR TENDER

Contractor Must Check & Verify all Dimensions on the Job.
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Toronto
 Metro Hall Fire Station &
 Early Years Child Care
 Centre Renovation
 55 John Street
 Toronto ON
 M5V 3C6
 2021-0245

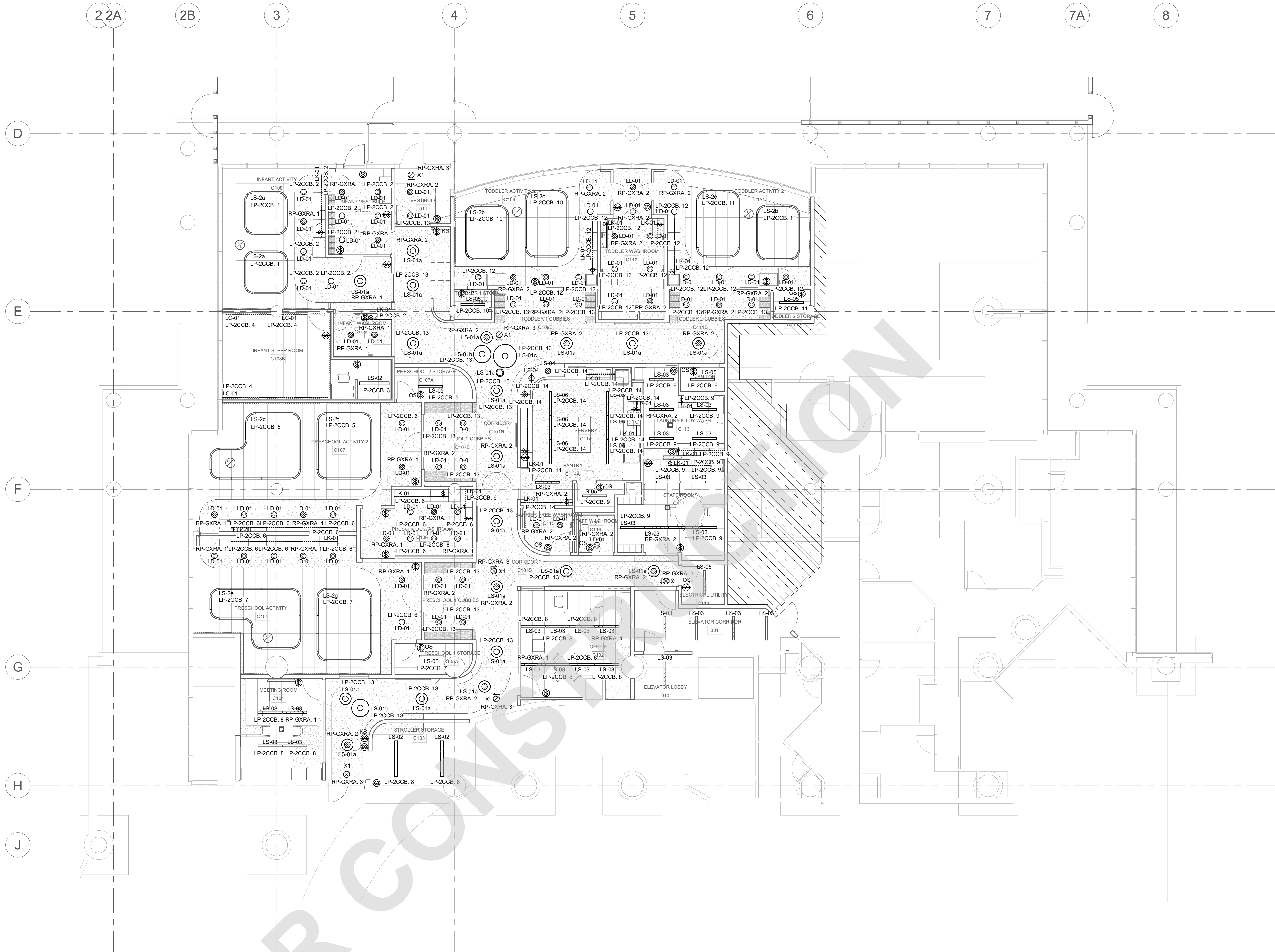
EXTERIOR ELECTRICAL LAYOUT

EXTERIOR ELECTRICAL
LAYOUT
1 : 100
E-101

DRAWING NOTES

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- b. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FINAL DEVICE LOCATIONS. IF NOT INDICATED, CONFIRM EXACT LOCATION WITH ARCHITECT
- c. NOT ALL EXISTING DEVICES AND EQUIPMENT SHOWN. ALL EXISTING DEVICES TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE.

No.	Date	Description
1	2022-09-23	ISSUED FOR CLASS D COSTING
2	2023-03-17	ISSUED FOR 10% DESIGN REVIEW
3	2023-05-02	ISSUED FOR 65% DESIGN REVIEW
4	2023-07-14	ISSUED FOR 85% DESIGN REVIEW
5	2023-08-23	ISSUED FOR APPROVAL
6	2024-02-01	ISSUED FOR TENDER



1 LEVEL 1 LIGHTING PLAN
E-201 1:100

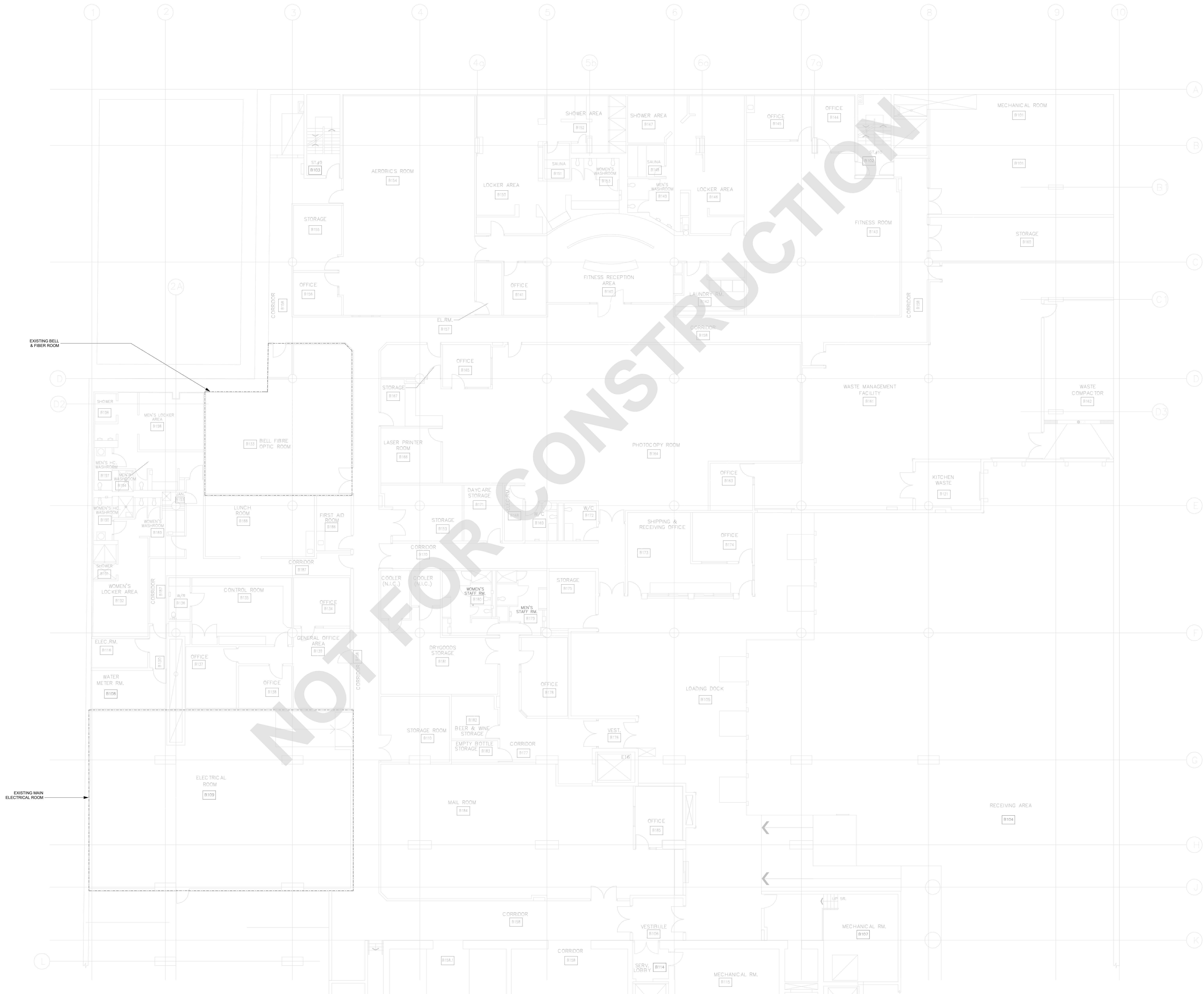
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ISSUED

No.	Date	Description
1	2023-03-17	ISSUED FOR 75% DESIGN REVIEW
2	2023-05-02	ISSUED FOR 85% DESIGN REVIEW
3	2023-07-14	ISSUED FOR 95% DESIGN REVIEW
4	2023-08-23	ISSUED FOR APPROVAL
5	2024-02-01	ISSUED FOR TENDER



1 P1 PART PLAN - NORTH - POWER
E-300 1:100

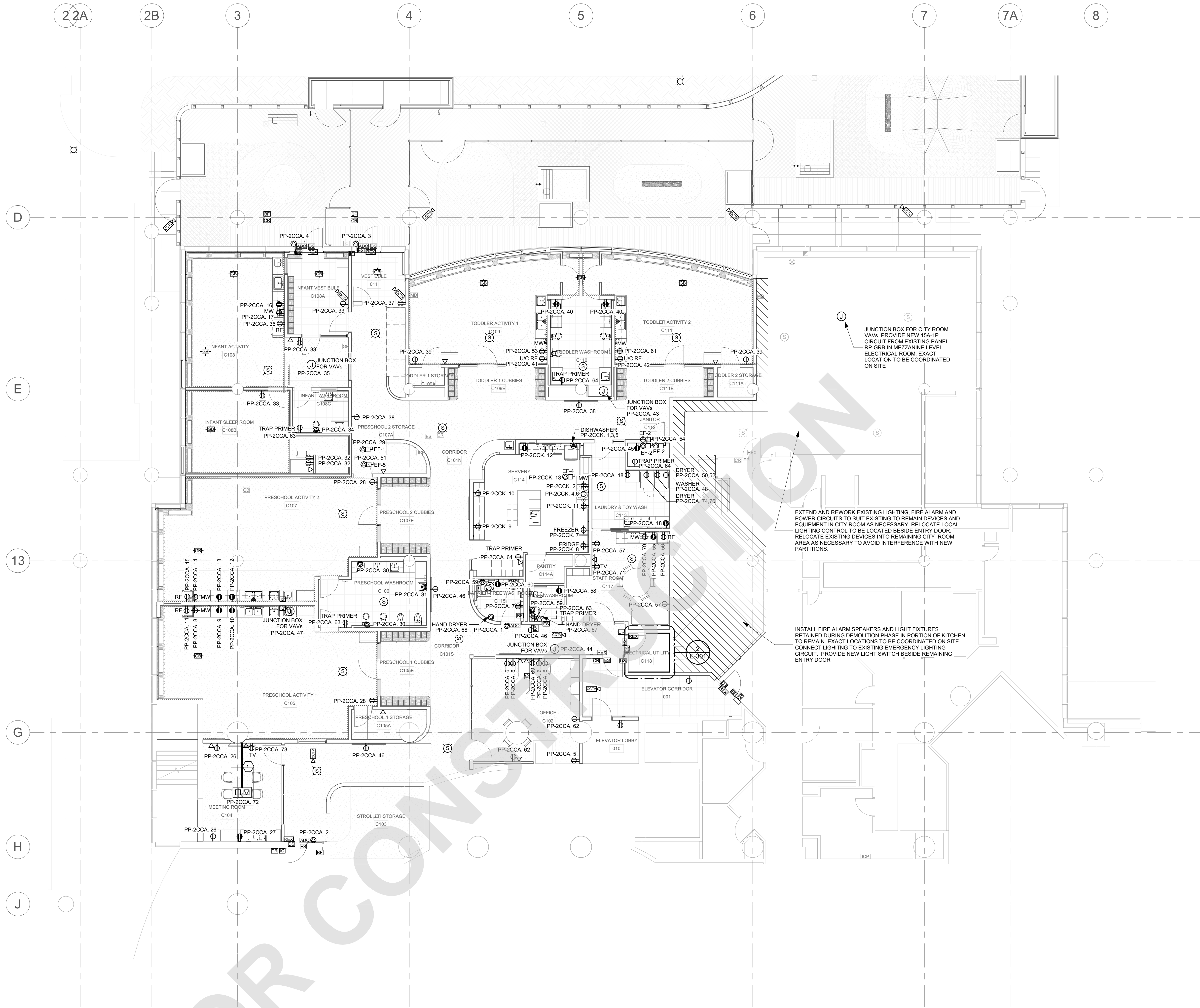
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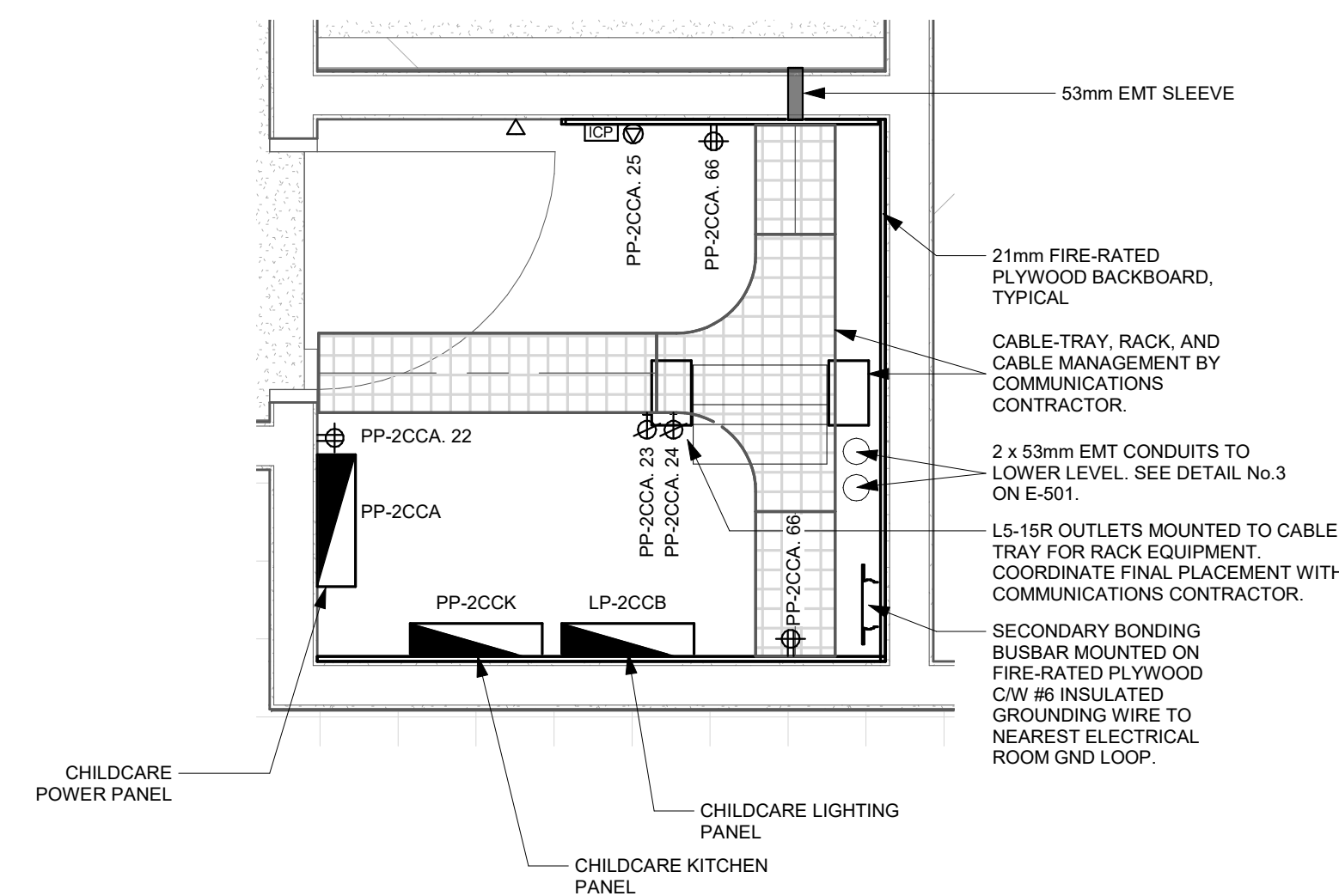
KEY NOTES

- 1 PROVIDE CONNECTRAC W/ ACCESSORIES FOR POWER, COMMS, HDMI, HDMI TO RUN TO TV.



1 LEVEL 1 POWER & SYSTEMS PLAN

E-301 1:100



2 ELCC ELECTRICAL ROOM DETAIL

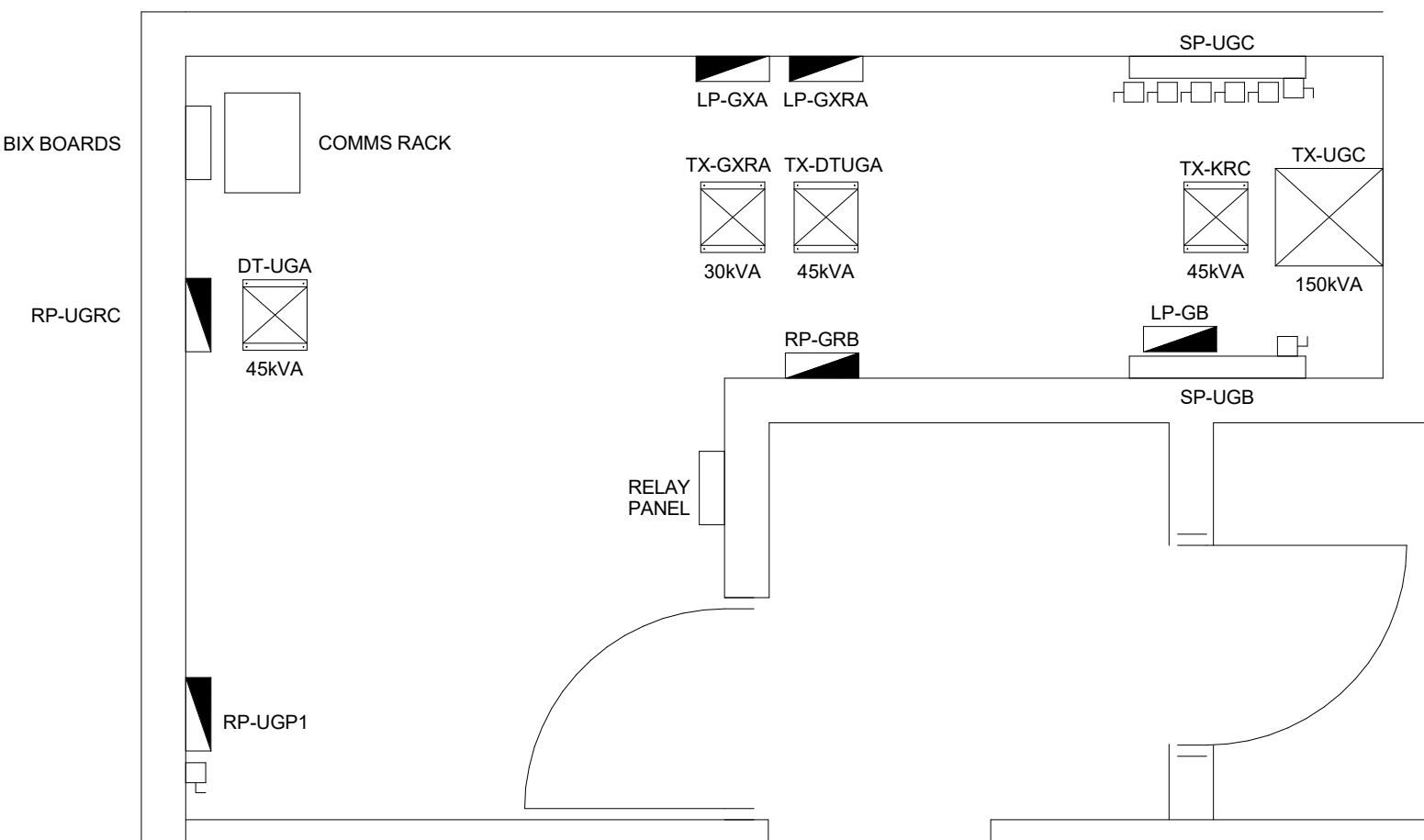
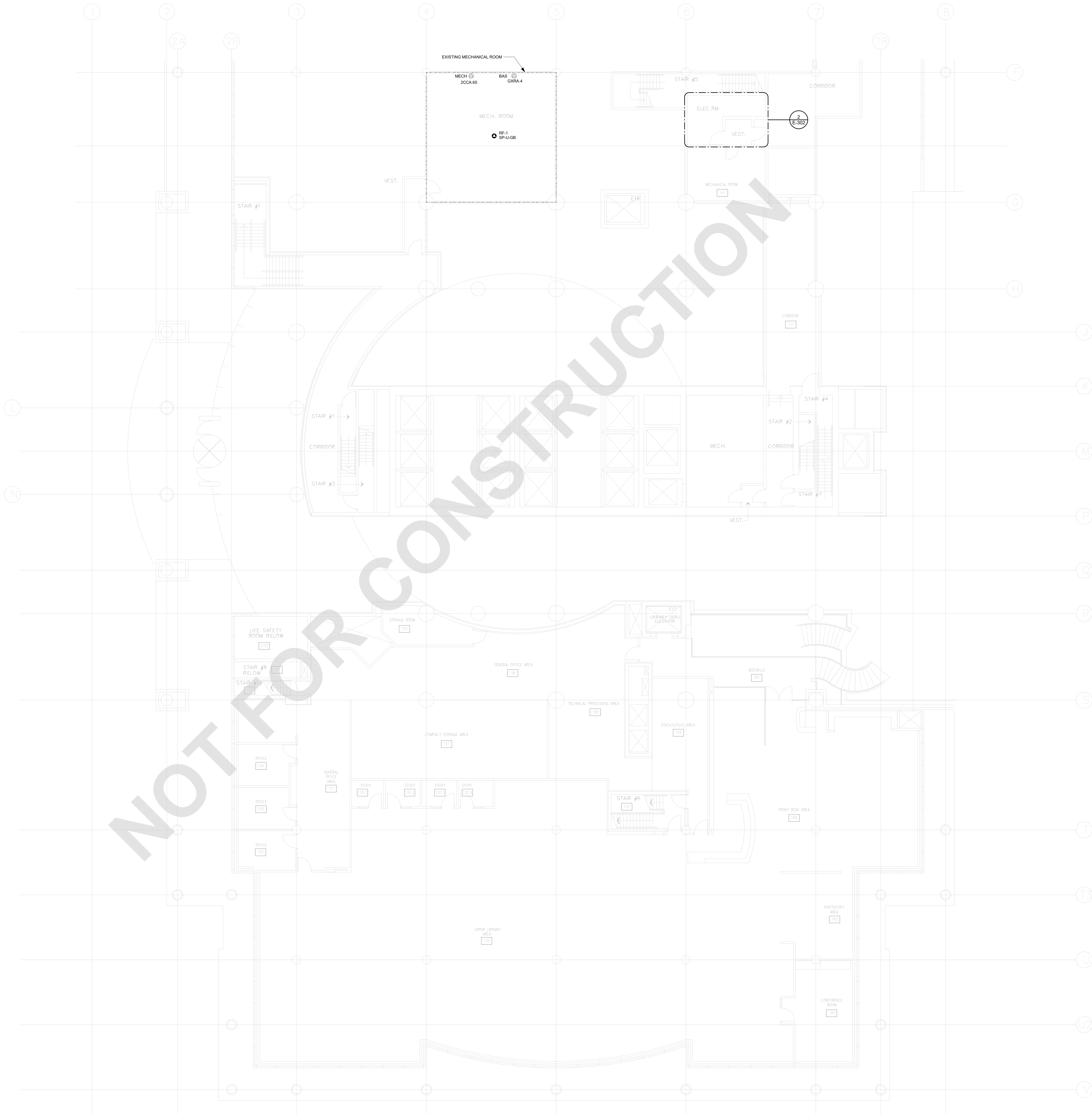
E-301 1:25

No.	Date	Description
1	2022-09-23	ISSUED FOR CLASS D COSTING
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1	2023-03-17	ISSUED FOR 75% DESIGN REVIEW
2	2023-05-02	ISSUED FOR 80% DESIGN REVIEW
3	2023-07-14	ISSUED FOR 85% DESIGN REVIEW
4	2023-08-23	ISSUED FOR APPROVAL
5	2024-02-01	ISSUED FOR TENDER



2 MEZZANINE ELECTRICAL ROOM

1 UPPER GROUND FLOOR - POWER

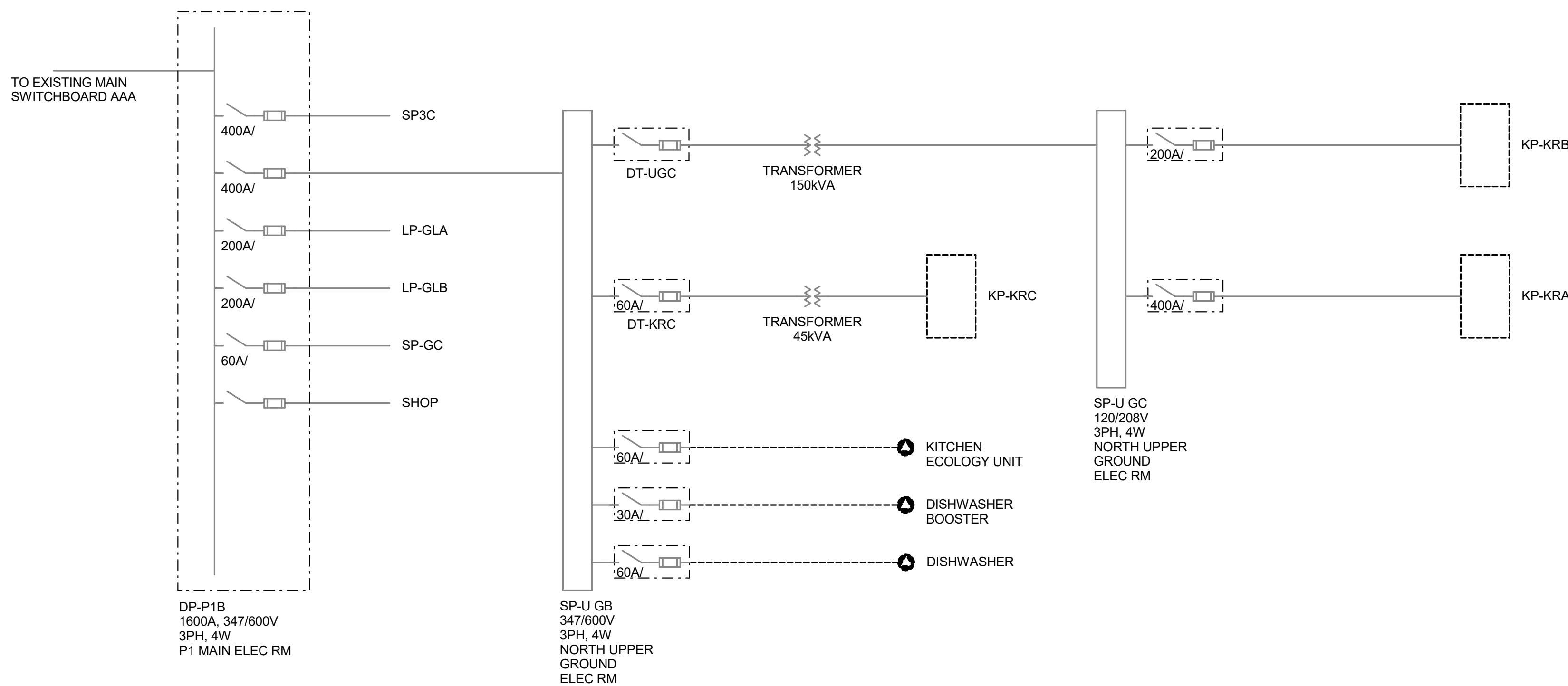
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2	2023-05-02	ISSUED FOR 85% DESIGN REVIEW
3	2023-07-14	ISSUED FOR 85% DESIGN REVIEW
4	2023-08-23	ISSUED FOR APPROVAL
5	2024-02-01	ISSUED FOR TENDER

ISSUED

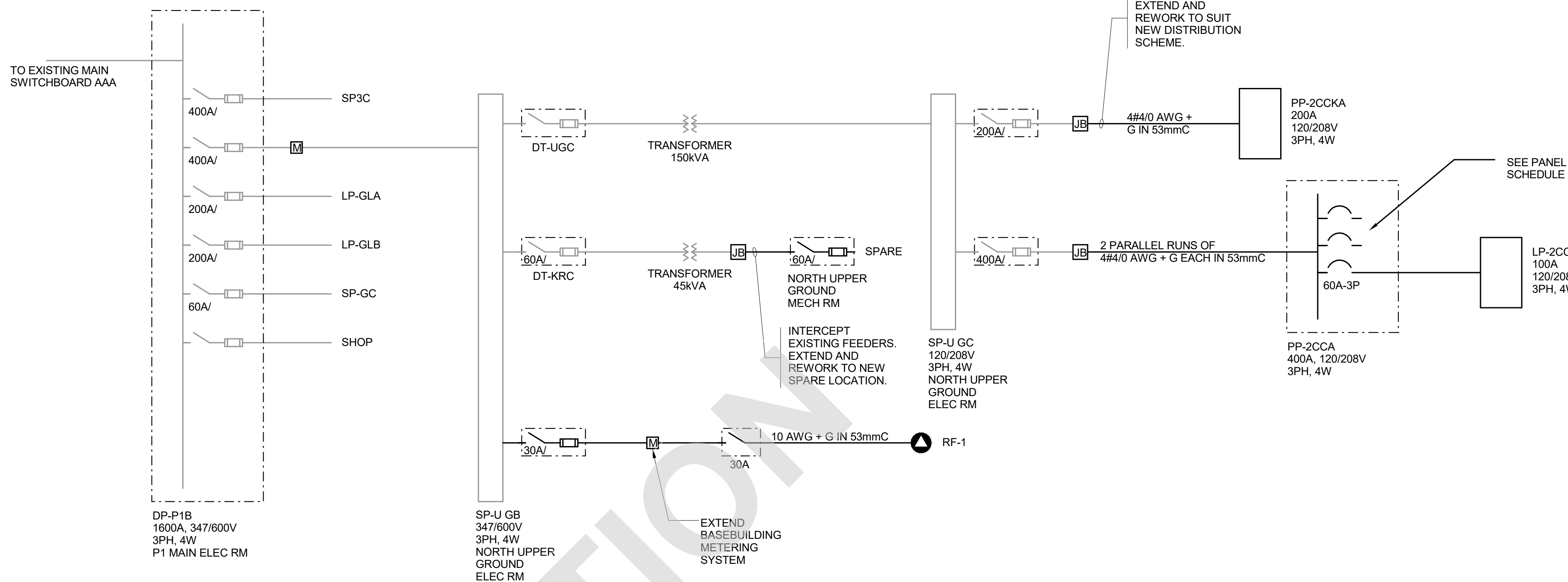
DRAWING NOTES

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- NOT ALL EXISTING DEVICES AND EQUIPMENT SHOWN. ALL EXISTING DEVICES TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE



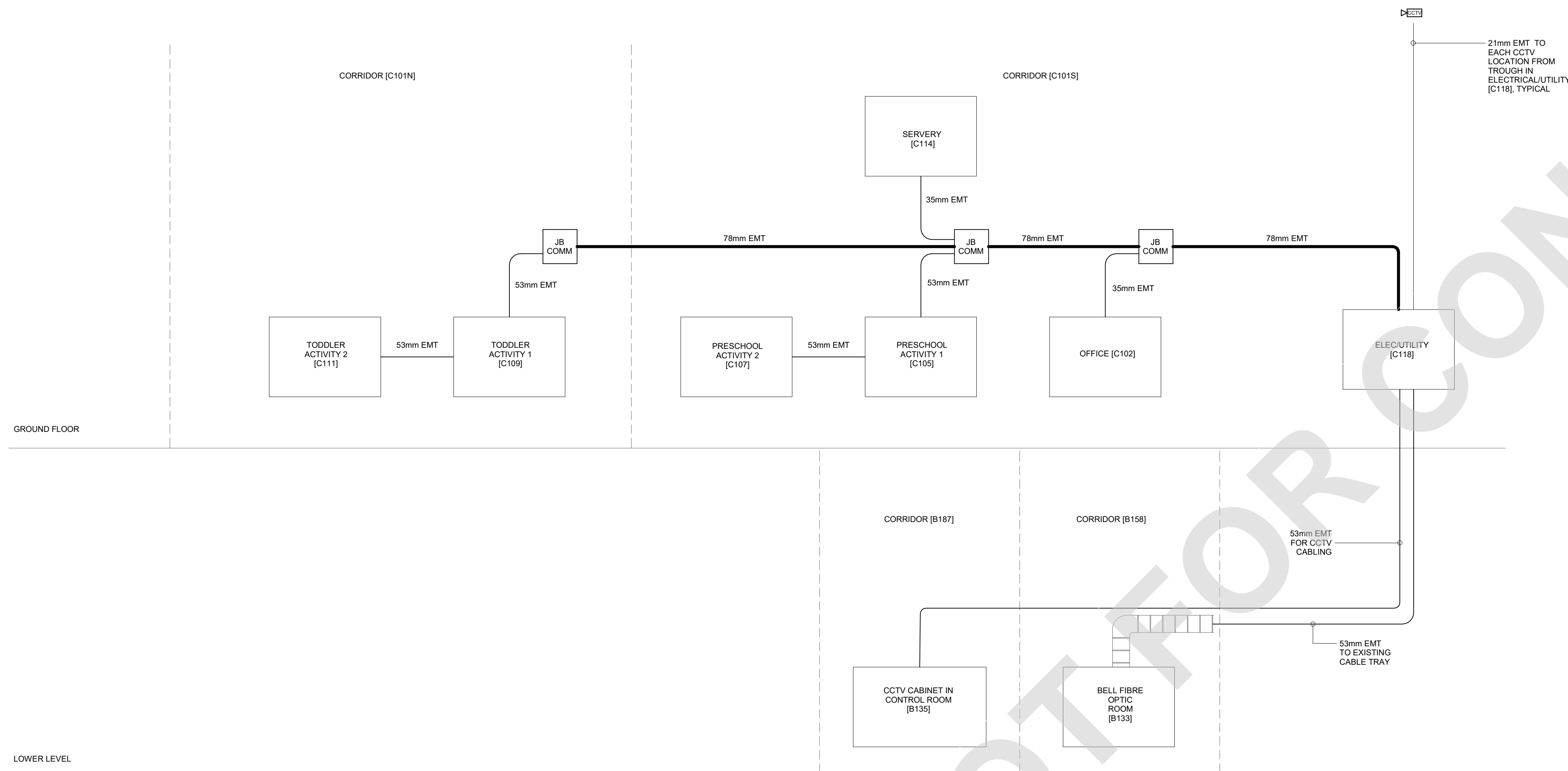
1 ELCCC SINGLE LINE DIAGRAM - DEMO

E-501 1:1



2 ELCCC SINGLE LINE DIAGRAM - NEW

E-501 1:1



- NOTES:
- ALL COMMUNICATIONS CONDUIT SHALL TERMINATE IN DOUBLE-HEIGHT ACCESSIBLE CEILING SPACE.
 - EXACT CONDUIT ROUTING TO BE COORDINATED ON SITE.

3 COMMUNICATIONS CONDUIT RISER DIAGRAM

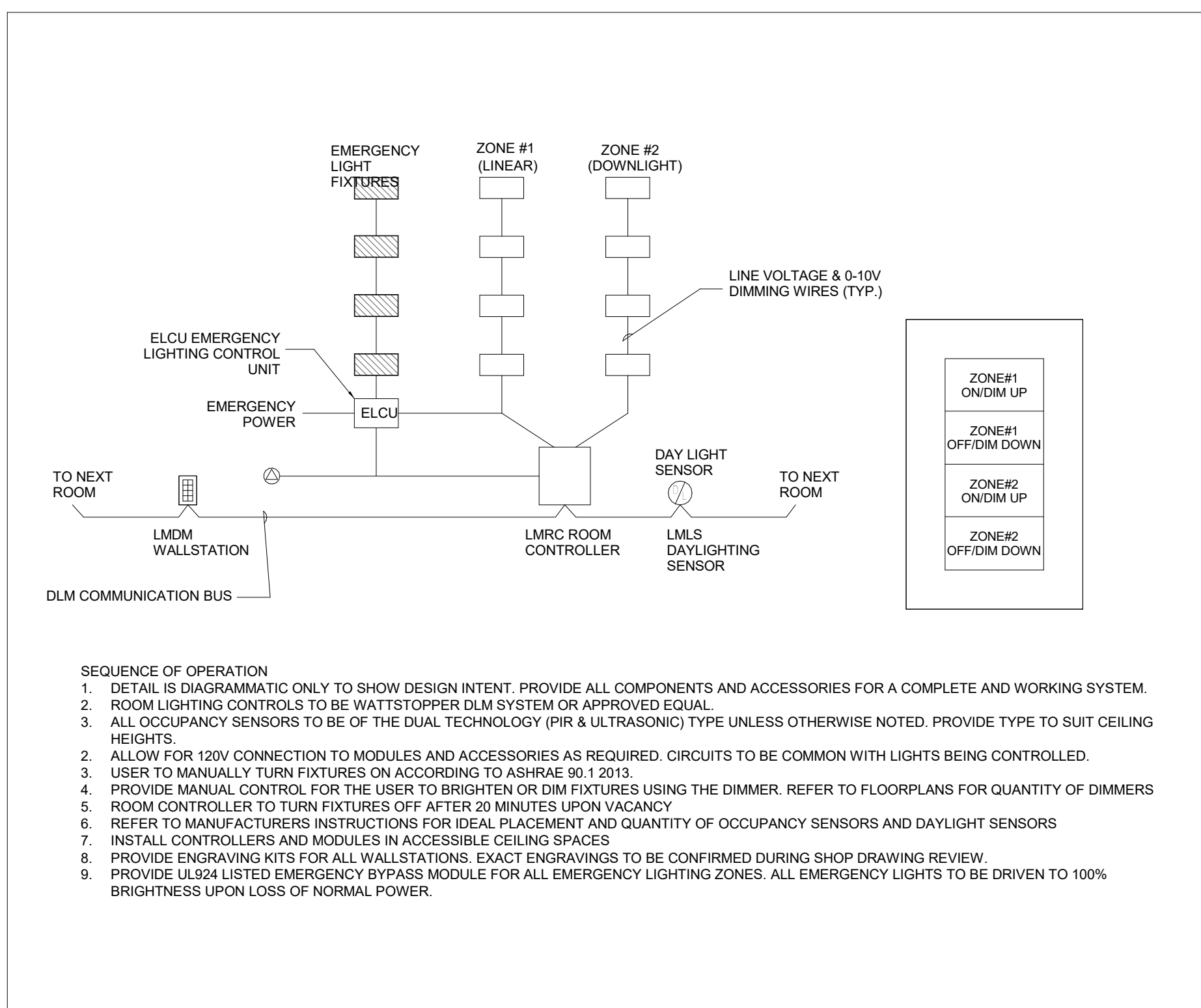
E-501 NTS

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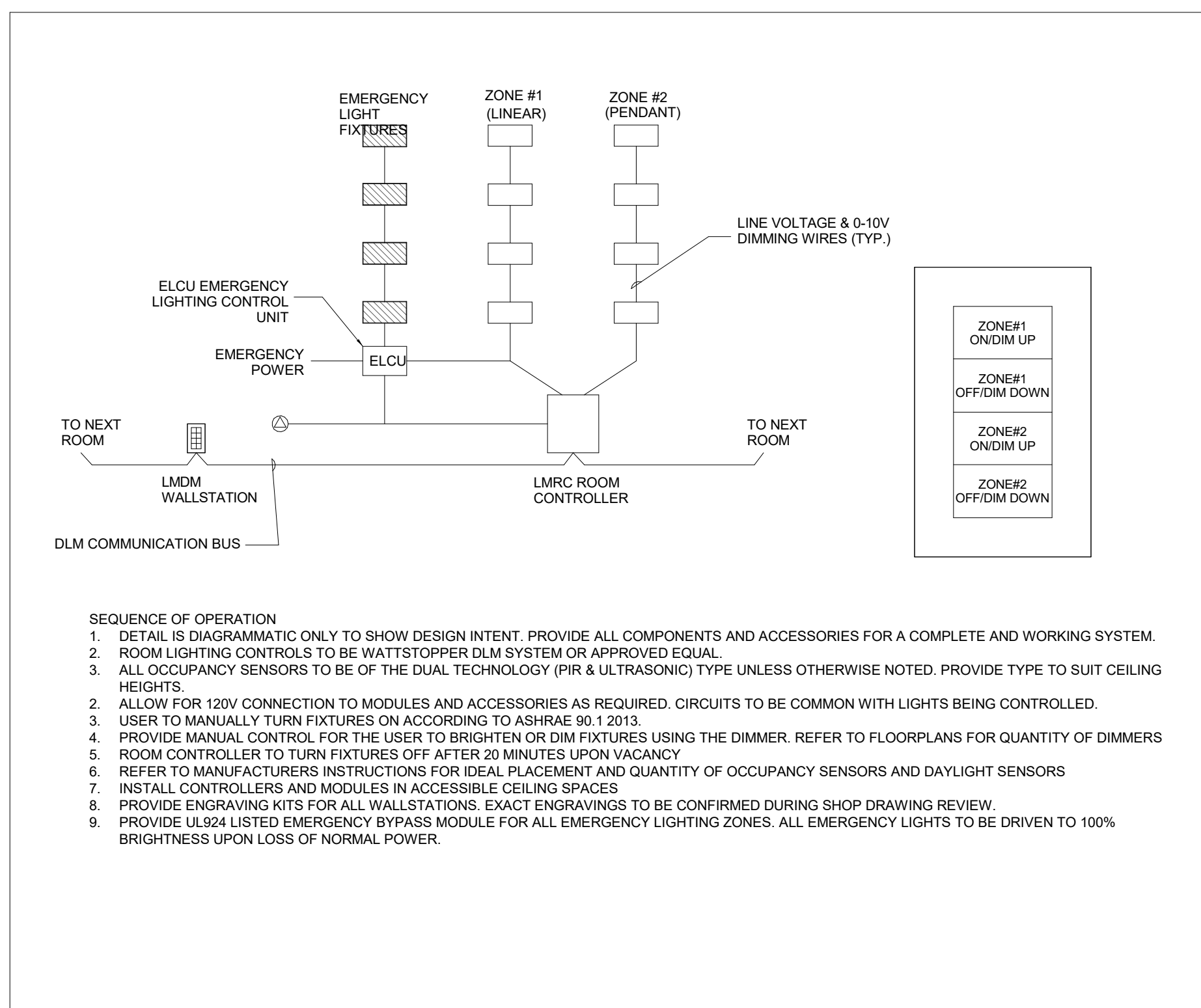
TORONTO
Metro Hall Fire Station &
Early Years Child Care
Centre Renovation
55 John Street
Toronto, ON
M5V 3C6
2021-0245

ELECTRICAL RISERS &
SCHEMATICS
As Indicated

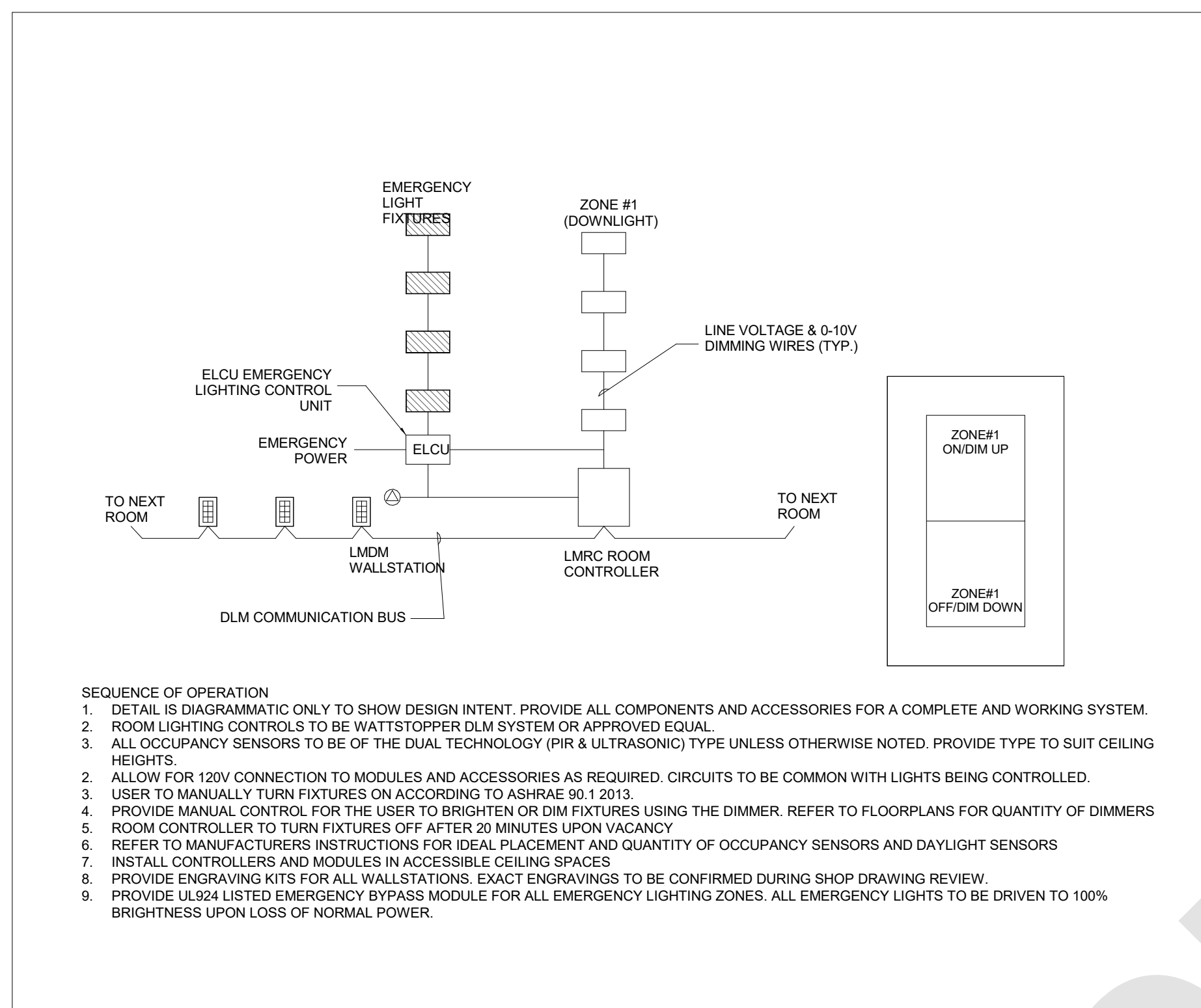
E-501



1 TYPICAL ACTIVITY ROOMS LIGHTING CONTROLS
E-502 NTS



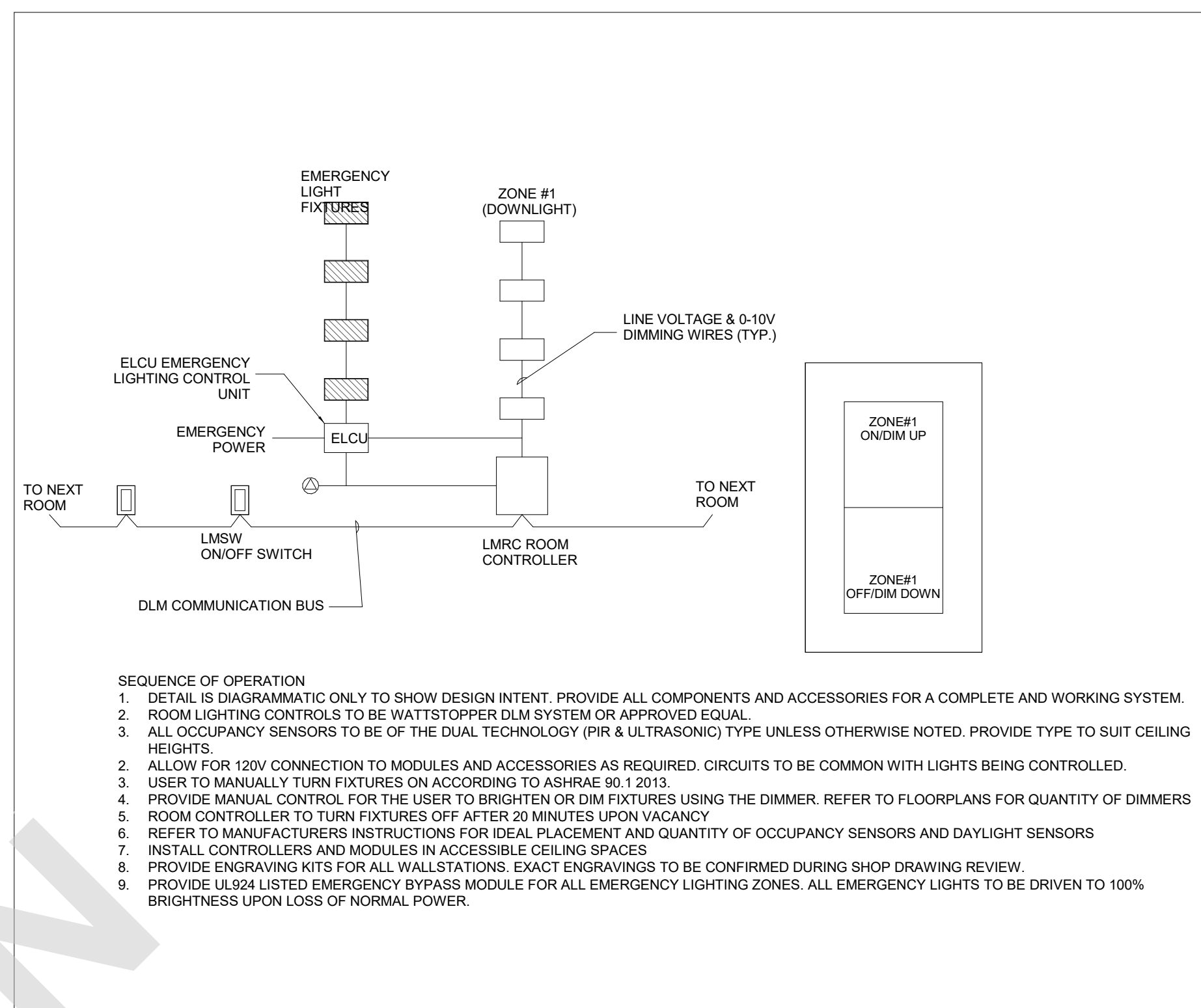
2 SERVERY LIGHTING CONTROL
E-502 NTS



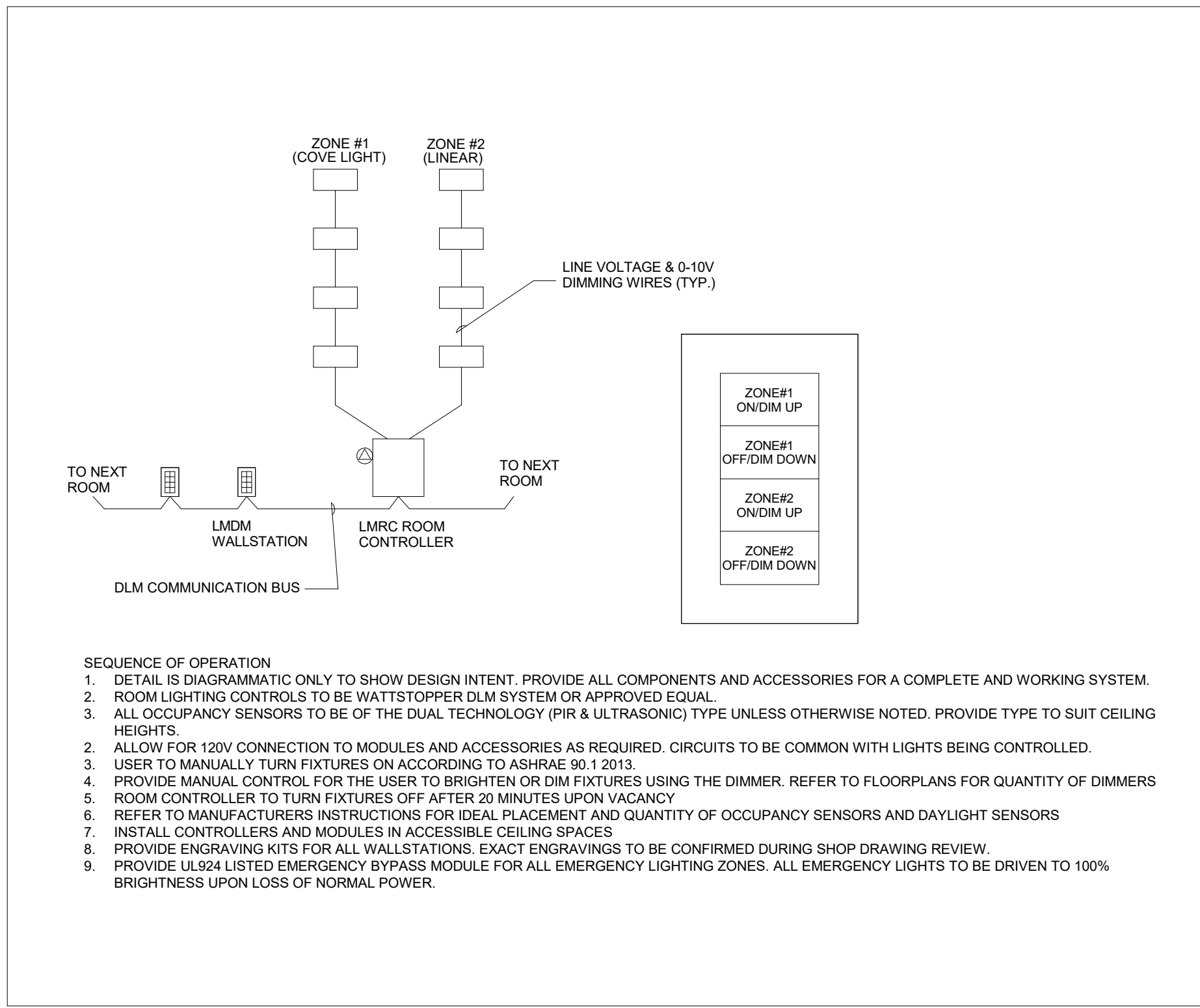
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E-502

TYPICAL VESTIBULE LIGHTING CONTROLS

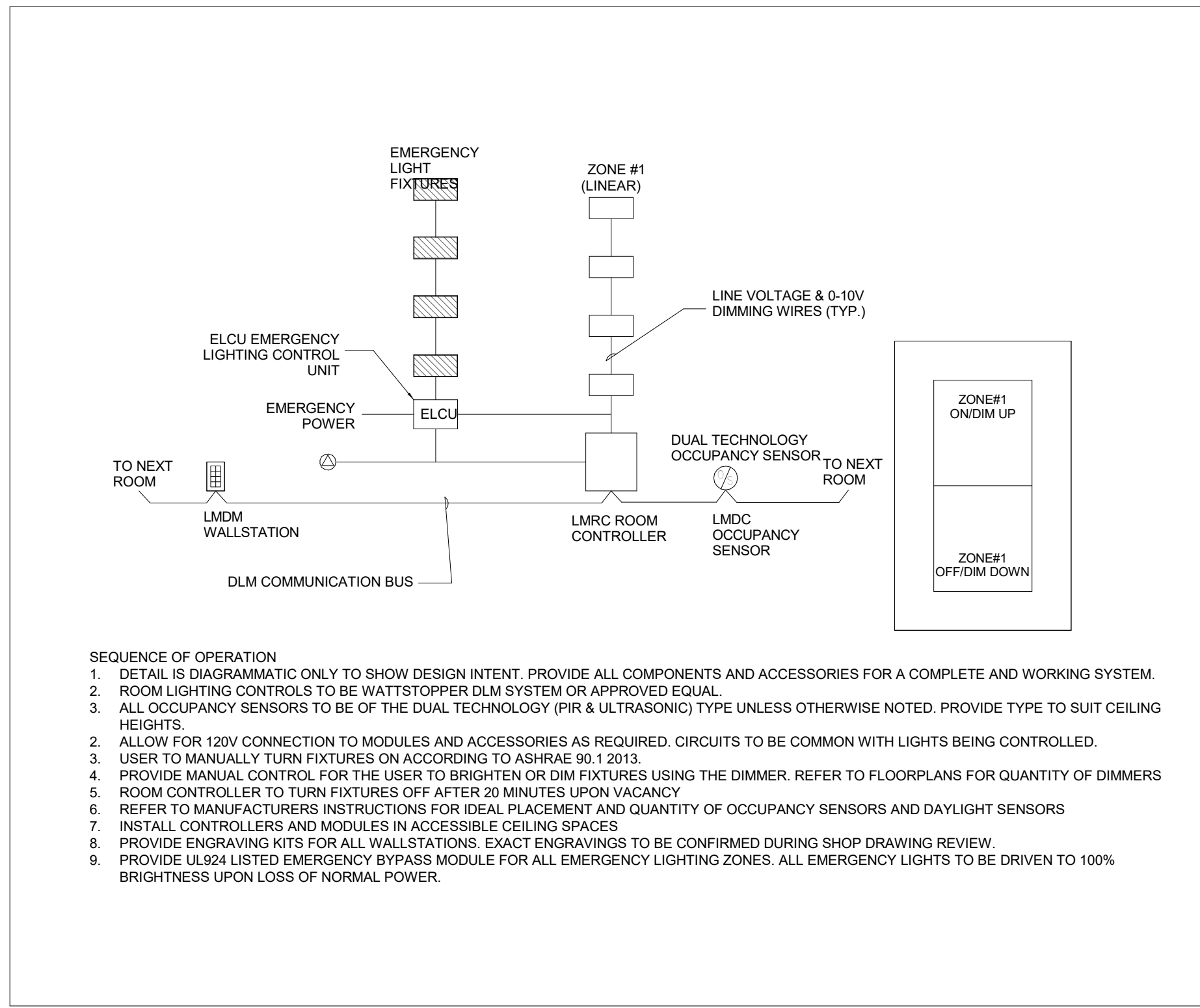
NTS



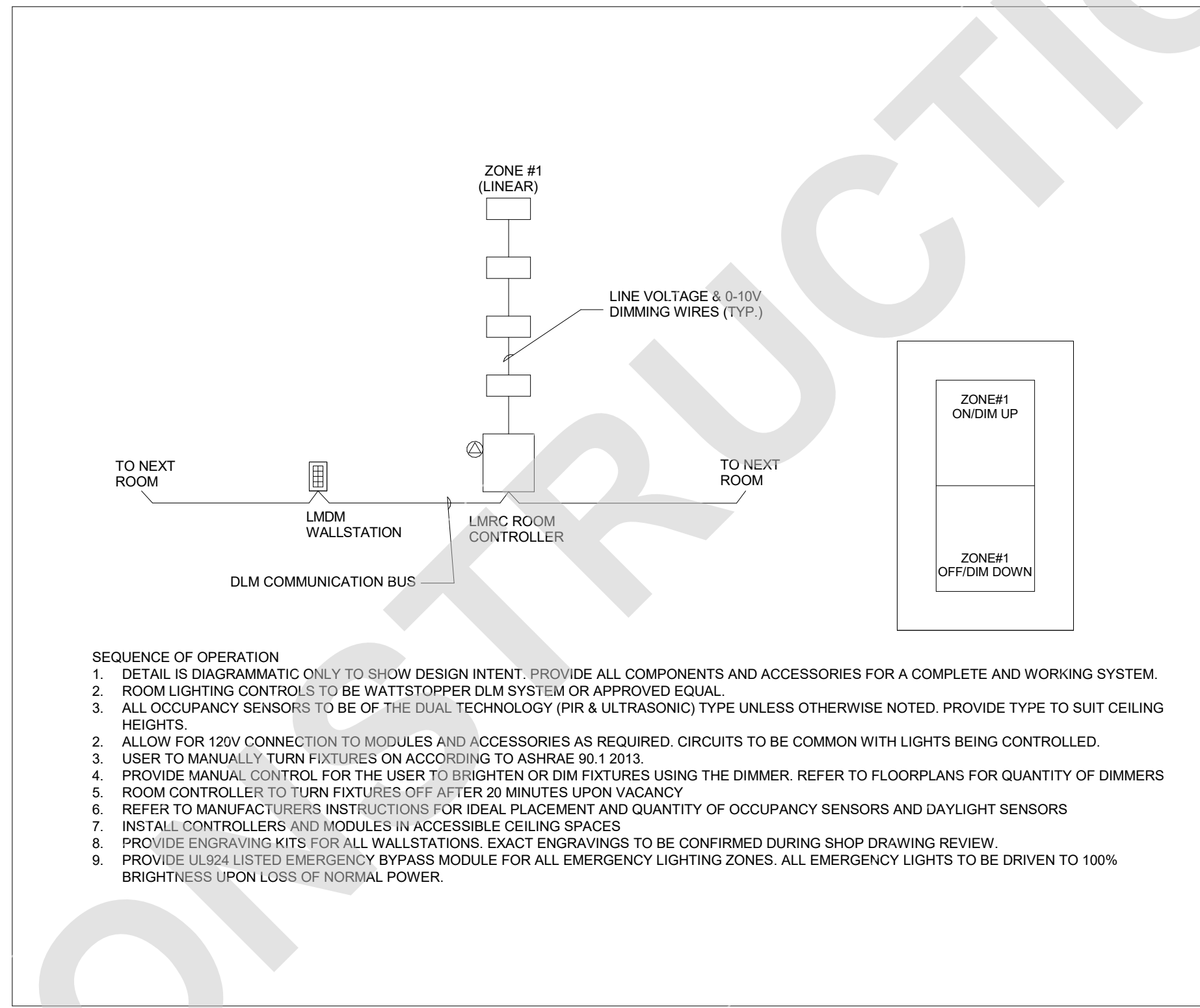
4 TYPICAL KIDS WASHROOM LIGHTING CONTROLS
E-502 NTS



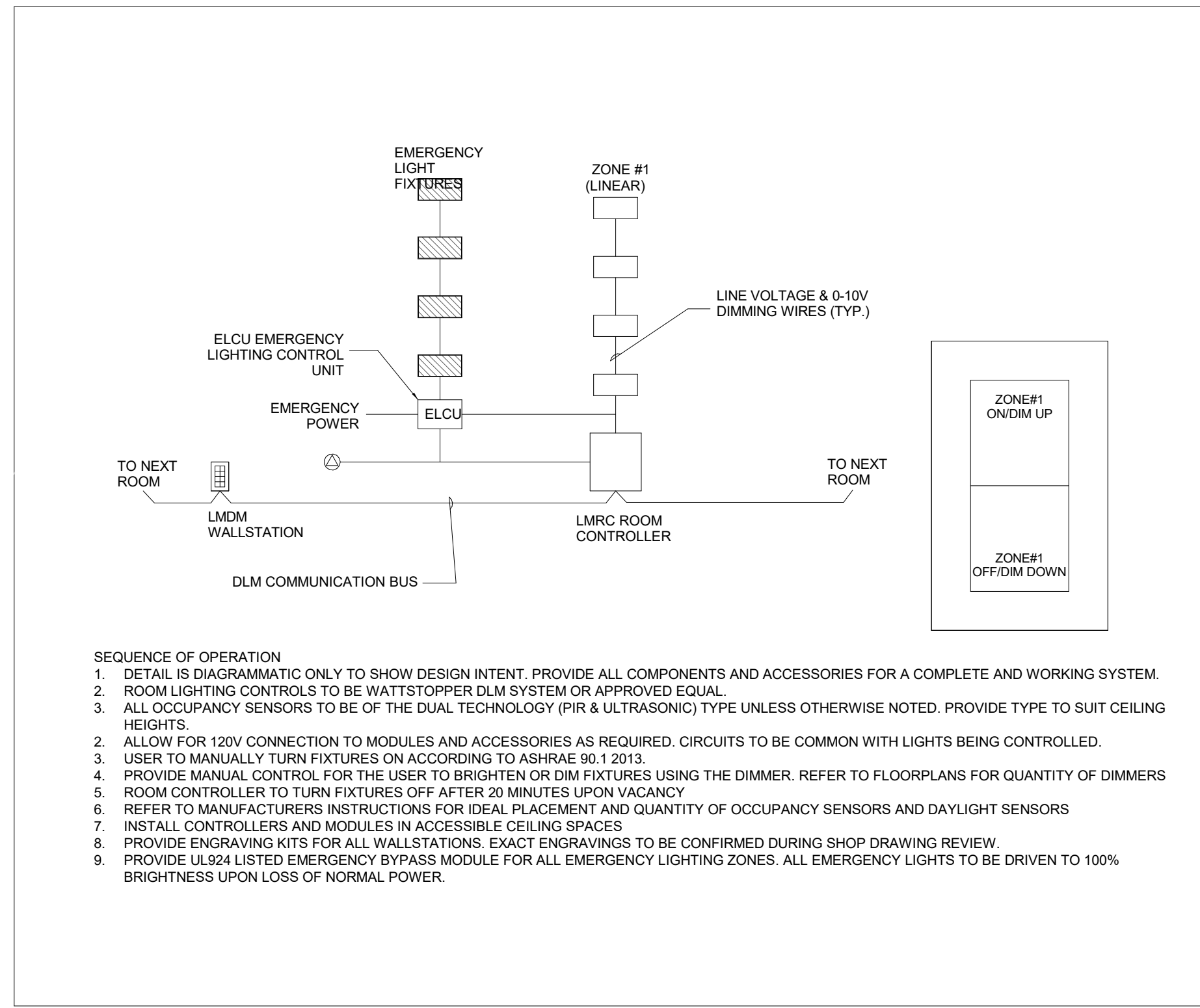
5 INFANT SLEEP ROOM LIGHTING CONTROLS
E-502 NT8



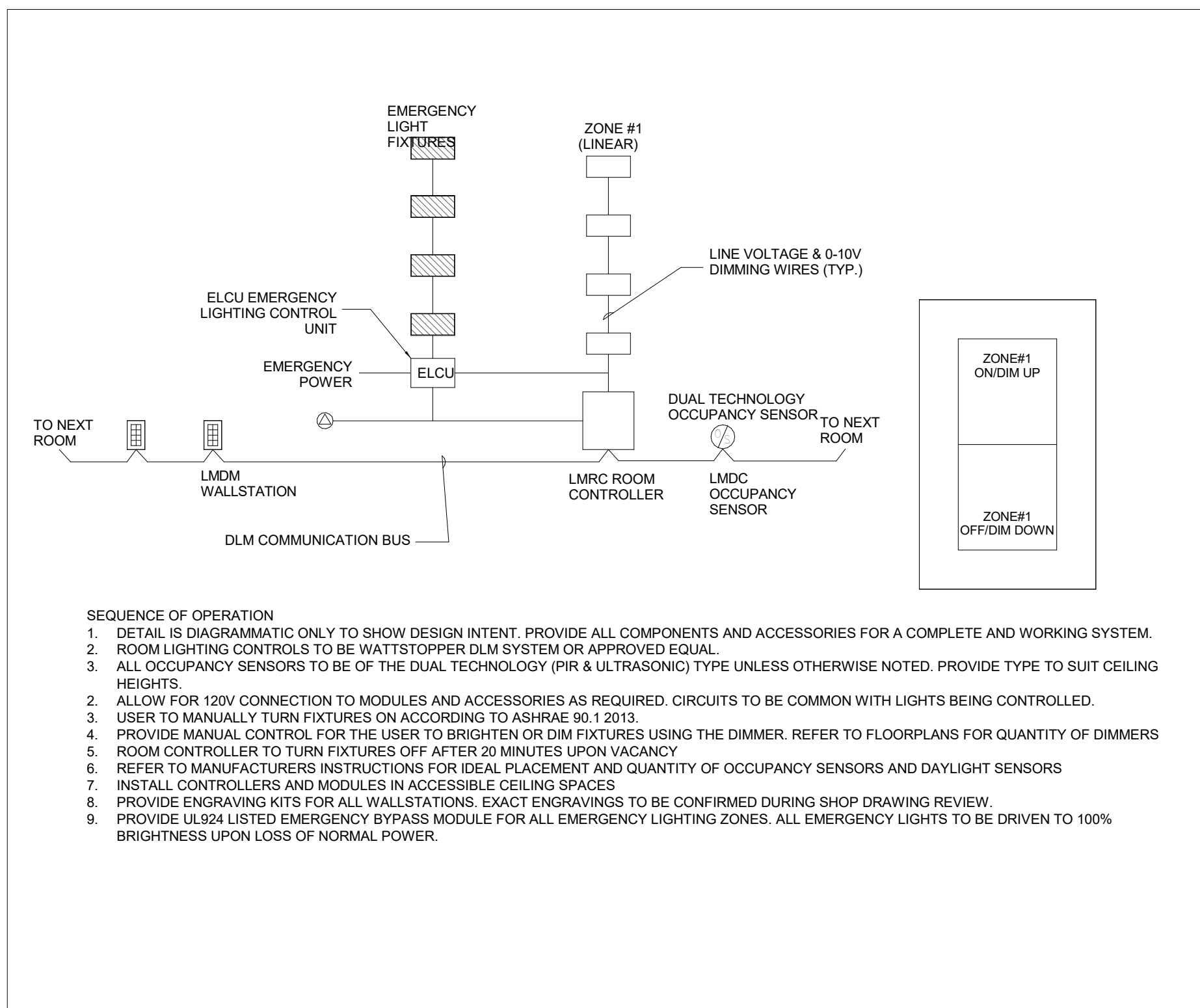
6 MEETING ROOM LIGHTING CONTROLS
E-502 NTS



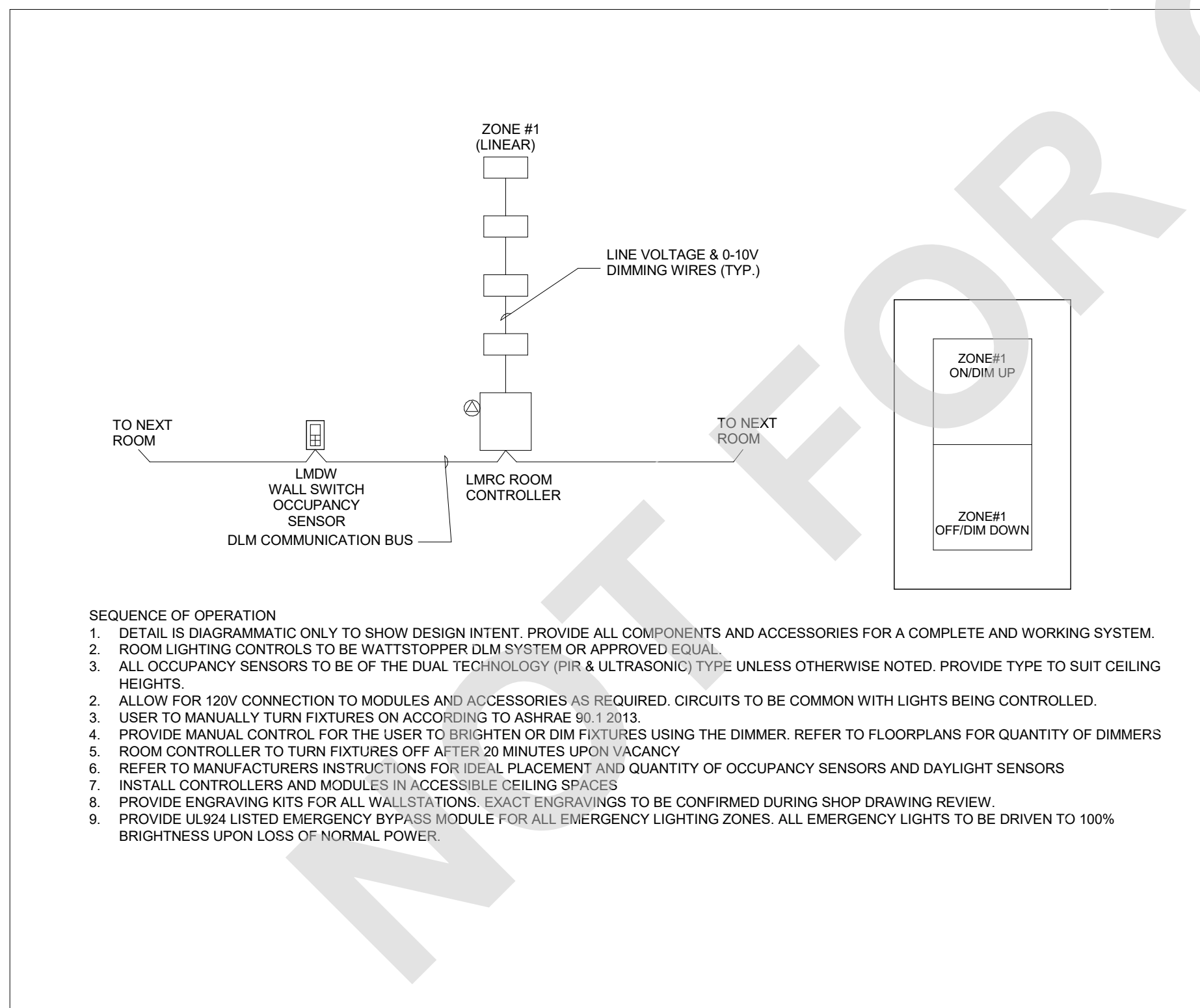
7 STROLLER STORAGE LIGHTING CONTROLS
E-502 NTS



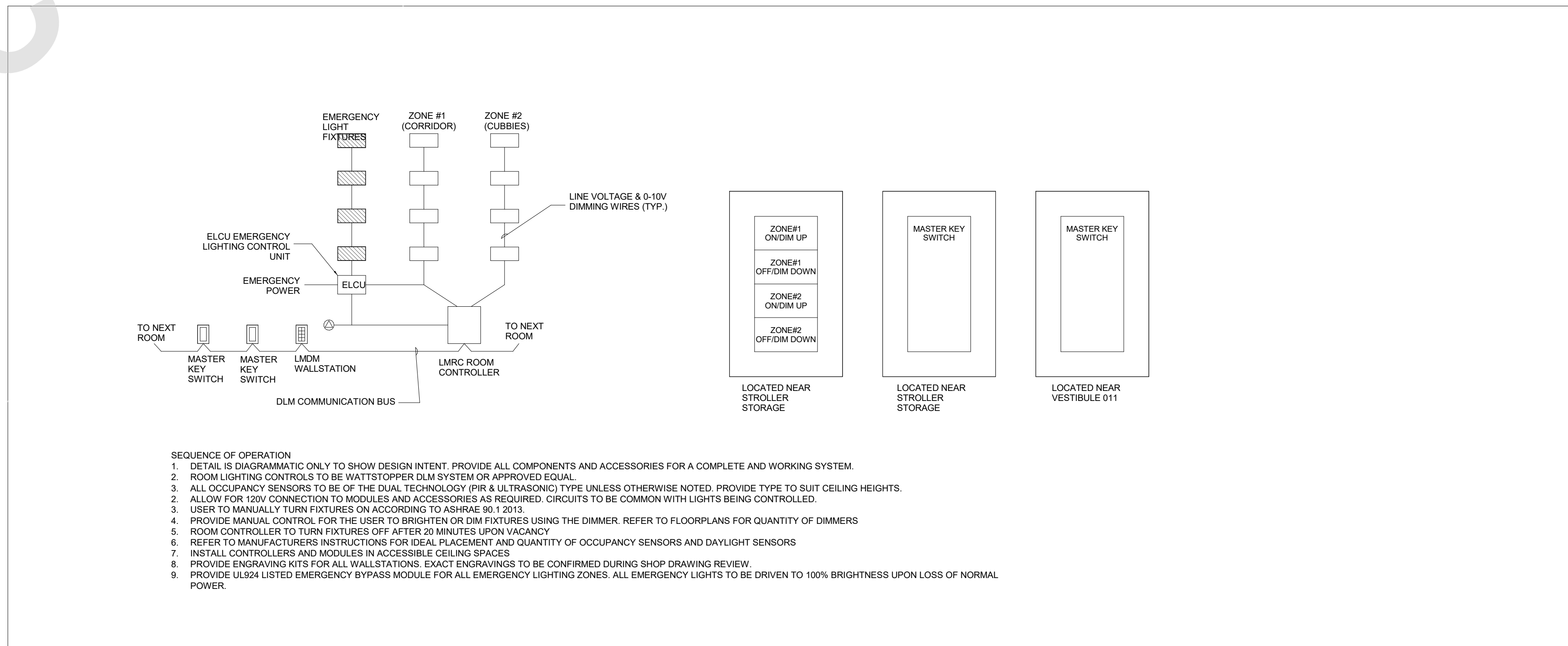
8 OFFICE LIGHTING CONTROLS
E-502 NTS



9 STAFF & LAUNDRY/TOY WASH ROOM LIGHTING CONTROLS
E-502 NTS



10 TYPICAL O/S SWITCH LIGHTING CONTROLS
E-502 NTS



11 TYPICAL CORRIDOR LIGHTING CONTROLS
E-502 NTS

No.	Date	Description
1	2023-05-02	ISSUED FOR 95% DESIGN REVIEW
2	2023-07-14	ISSUED FOR 95% DESIGN REVIEW
3	2023-08-23	ISSUED FOR APPROVAL
4	2024-02-01	ISSUED FOR TENDER

	TOTAL LOAD:	2.8 kVA	2.4 kVA	1.4 kVA	TOTAL LOAD	
	TOTAL AMPS:	25 A	21 A	12 A	TOTAL AMPS	
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND		PANEL TOTALS	
Motor	4.21 kVA	50.00%	2.11 kVA		TOTAL CONN. LOAD:	6.6 kVA
Power	2.40 kVA	70.00%	1.68 kVA		TOTAL EST. DEMAND:	3.8 kVA
					TOTAL CONN.:	18 A
					TOTAL EST. DEMAND:	11 A

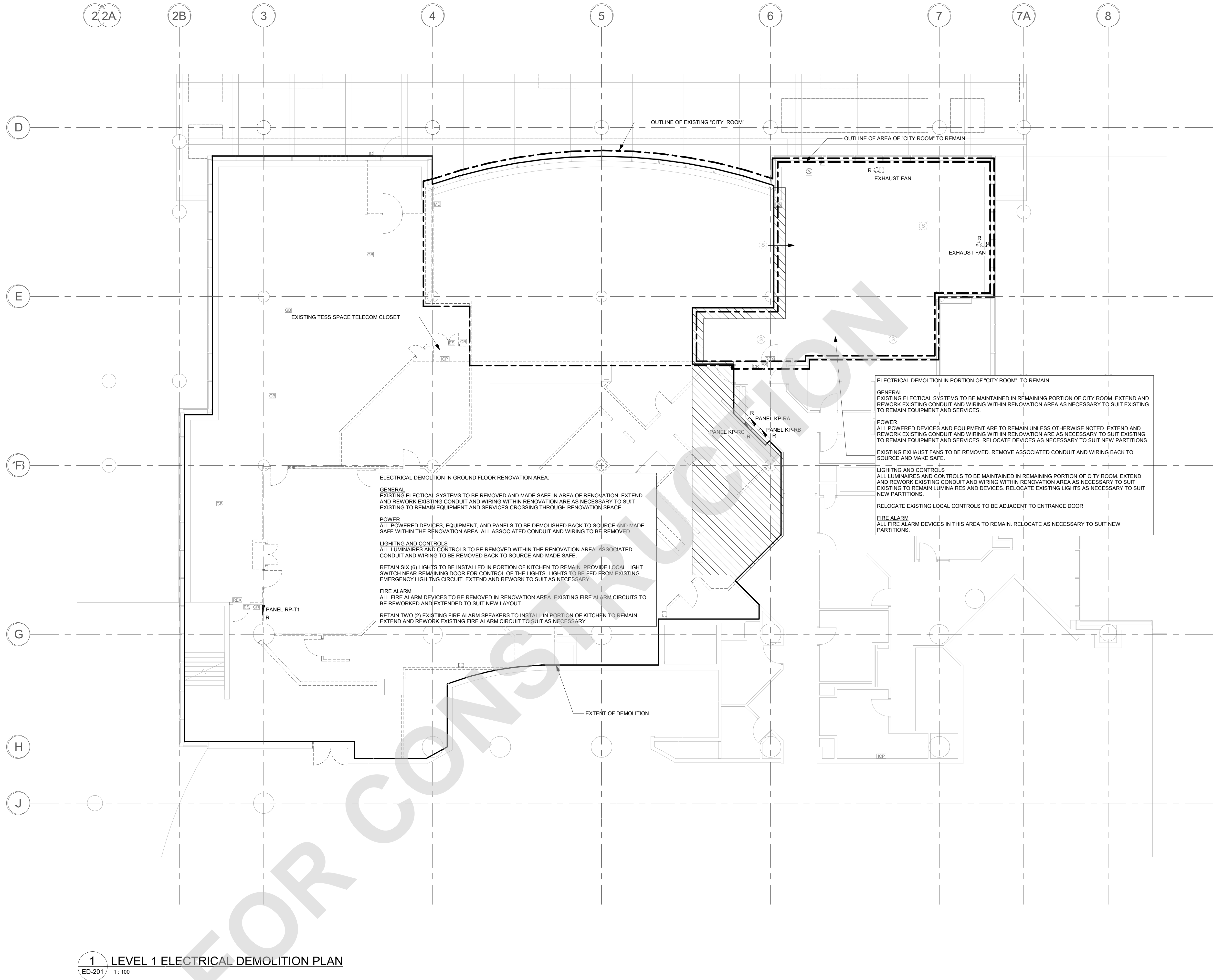
LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Motor	7.88 KVA	50.00%	3.94 KVA	
Other	0.00 KVA	0.00%	0.00 KVA	TOTAL CONN. LOAD: 30.2 KVA
Power	22.30 KVA	70.00%	15.61 KVA	TOTAL EST. DEMAND: 19.6 KVA
				TOTAL CONN.: 84 A
				TOTAL EST. DEMAND: 54 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Lighting	1.19 kVA	100.00%	1.19 kVA	
Other	3.99 kVA	100.00%	3.99 kVA	
				TOTAL CONN. LOAD: 5.2 kVA
				TOTAL EST. DEMAND: 5.2 kVA
				TOTAL CONN.: 14 A
				TOTAL EST. DEMAND: 14 A

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	0.60 kVA	100.00%	0.60 kVA		
Other	0.74 kVA	100.00%	0.74 kVA	TOTAL CONN. LOAD:	1.3 kVA
				TOTAL EST. DEMAND:	1.3 kVA
				TOTAL CONN.:	4 A
				TOTAL EST. DEMAND:	4 A

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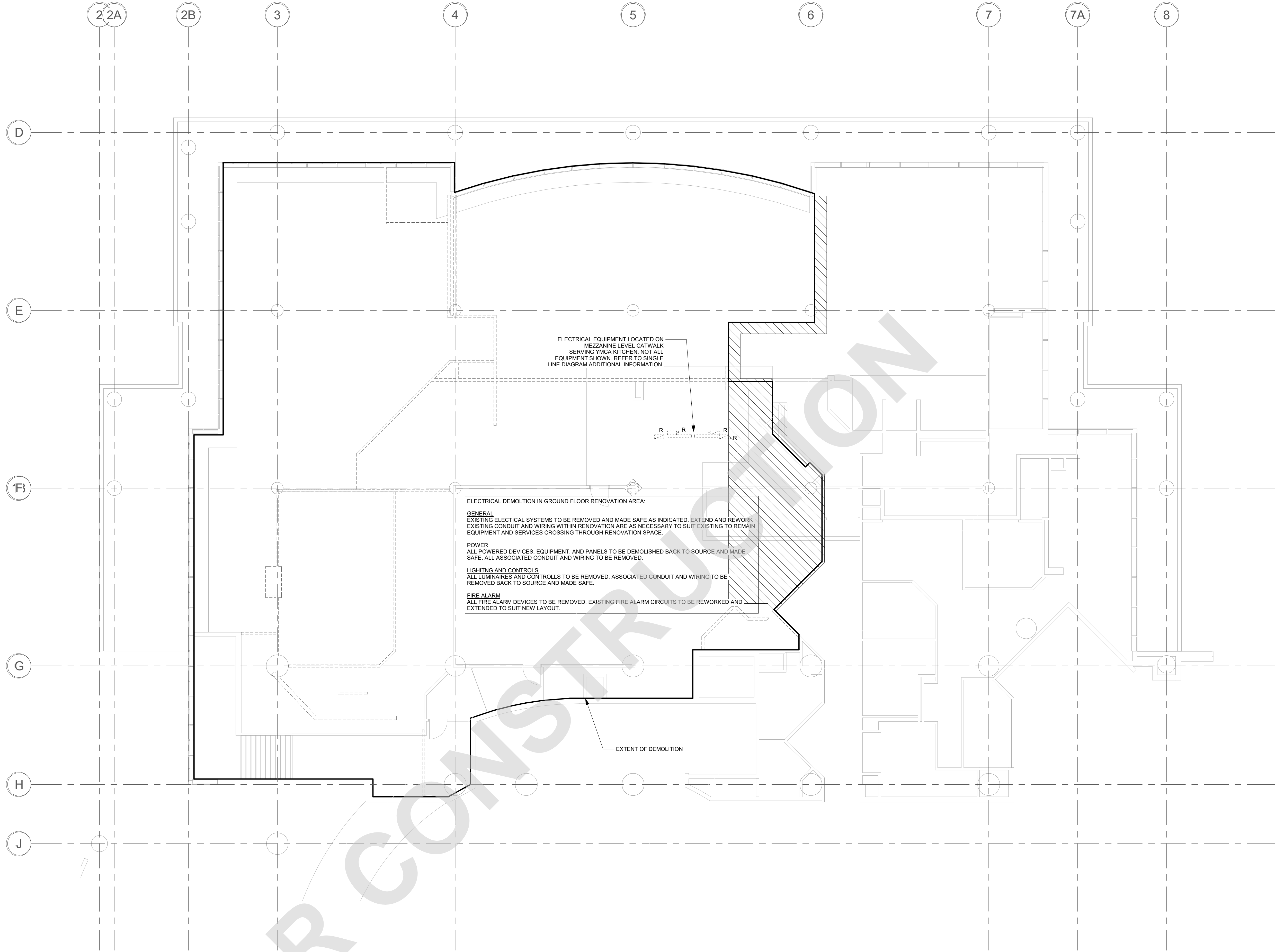


1
ED-201 / 1 : 100

No.	Date	Description	ISSUED
1	2022-09-23	ISSUED FOR CLASS D COSTING	
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1 MECHANICAL MEZZANINE ELECTRICAL DEMOLITION PLAN
ED-301 1 - 100


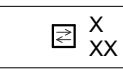
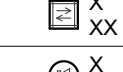
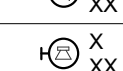
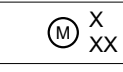
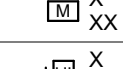
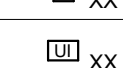
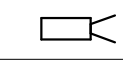

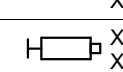
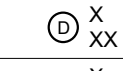
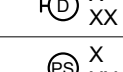
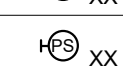

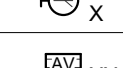


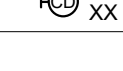






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BM-BB0-0210108-MPHDCC-RE-0210108-ELEC-HQ-Building-R2-1.d

01/02/2024 12:28:49 PM

NOT FOR CONSTRUCTION

AV LEGEND		EXISTING DEVICES ARE TONED: 
 X XX	INPUT/OUTPUT DEVICE (WALL MOUNTED) - X GANG SIZE, XX TYPE	
 X XX	INPUT/OUTPUT DEVICE (FURNITURE MOUNTED) - X GANG SIZE, XX TYPE	
 X XX	INPUT/OUTPUT DEVICE (FLOOR BOX MOUNTED) - X GANG SIZE, XX TYPE	
 X XX	CEILING SPEAKER - X - P - PENDANT, R - RECESSED, S - SURFACE, XX TYPE	
 X XX	WALL SPEAKER - X - R - RECESSED, S - SURFACE, XX TYPE	
 X XX	CEILING MICROPHONE - X - P - PENDANT, R - RECESSED, S - SURFACE, XX TYPE	
 X XX	TABLE MICROPHONE - X - R - RECESSED, S - SURFACE, XX TYPE	
 X XX	USER INTERFACE (WALL MOUNTED) - X GANG SIZE, XX TYPE	
 XX	USER INTERFACE (FURNITURE MOUNTED) - XX TYPE	
 X XX	PROJECTOR (CEILING MOUNTED) - X TYPE	
 X	PROJECTOR (WALL/FURNITURE MOUNTED) - X TYPE	
 X XX	CAMERA (CEILING MOUNTED) - X TYPE 1, XX TYPE 2	
 X XX	CAMERA (WALL MOUNTED) - X TYPE 1, XX TYPE 2	
 X XX	DISPLAY (CEILING MOUNTED) - X TYPE 1, XX TYPE 2	
 X XX	DISPLAY (WALL MOUNTED) - X TYPE 1, XX TYPE 2	
 X XX	PROJECTION SCREEN (CEILING MOUNTED) - R - RECESSED, S - SURFACE, XX TYPE	
 XX	PROJECTION SCREEN (CEILING MOUNTED) - XX TYPE	
 X	ANTENNA (CEILING MOUNTED) - X TYPE	
 X	ANTENNA (WALL MOUNTED) - X TYPE	
 XX	AV RACK (FLOOR MOUNTED) - XX TYPE	
 XX	AV RACK (WALL MOUNTED) - XX TYPE	
 X XX	CONTROL DEVICE (CEILING MOUNTED) - X TYPE 1, XX TYPE 2	
 X XX	CONTROL DEVICE (WALL MOUNTED) - X TYPE 1, XX TYPE 2	

GENERAL NOTES:

1. DEVICE LOCATIONS INDICATED ON DRAWINGS ARE APPROXIMATE. COORDINATE FINAL INSTALLATION LOCATIONS AND DETAILS WITH THE ARCHITECT. REFER TO ARCHITECTURAL, ELECTRICAL & COMMUNICATIONS DRAWINGS AND REVIEW SITE CONDITIONS FOR INSTALLATION REQUIREMENTS. COORDINATE FINAL DEVICE LOCATIONS TO SUIT SITE CONDITIONS.
2. ARCHITECTURAL PLAN DRAWING BACKGROUNDS ARE FOR REFERENCE ONLY. REFER TO PROJECT ARCHITECTURAL DRAWINGS AND SITE CONDITIONS. SITE MEASURE FOR EXACT DIMENSIONS AND INSTALLATION REQUIREMENTS.
3. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE AUDIOVISUAL SPECIFICATIONS.
4. PROVIDE ALL REQUIRED CUTTING, BORING, PATCHING AND FINISHING NECESSARY TO PROVIDE A COMPLETE INSTALLATION. PROVIDE ALL MOUNTS, BACK BOXES, ADAPTERS, FACEPLATES, BEZELS, TRIM, ETC. UNLESS OTHERWISE NOTED.
5. ALL SLAB AND WALL PENETRATIONS TO BE FIRE STOPPED AS REQUIRED TO MAINTAIN FIRE RATING OF SLAB OR WALL. FIRE STOPPING MATERIAL SHALL BE A TYPE THAT WILL ALLOW ADDITIONAL CABLES TO BE INSTALLED IN THE FUTURE.
6. PROVIDE COMPLETE SHOP DRAWINGS AND DETAILS FOR ALL PROPOSED INSTALLATIONS. OBTAIN ARCHITECT'S APPROVAL FOR ALL INSTALLATIONS.
7. COORDINATE ALL INSTALLATIONS AND WORK. OBTAIN ALL NECESSARY APPROVALS AND PERMITS.
8. PROVIDE ALL INSTALLATIONS IN COMPLIANCE WITH APPLICABLE CODES AND SITE INSTALLATION STANDARDS AND GUIDELINES.
9. USE PLENUM RATED FT6 CABLE WHERE REQUIRED BY CODE.
10. PROVIDE ALL DEVICES AND INSTALLATIONS WITH A COLOR AND FINISH TO MATCH THE INSTALLATION LOCATION. OBTAIN ARCHITECT'S APPROVAL FOR ALL INSTALLATION OF DEVICES AND COMPONENTS.
11. ALL AV CABLES TO HAVE TYPE PRINT IDENTIFICATION LABELS AT BOTH ENDS MATCHING CABLE SCHEDULE AND FUNCTIONAL DIAGRAM USING A ADHESIVE LABELING SYSTEM DESIGNED FOR CABLE IDENTIFICATION.
12. ALL TERMINATION BLOCKS AND PATCH PANELS TO HAVE TYPE PRINT DESIGNATION LABELS IN ACCORDANCE WITH APPROVED SCHEDULES.
13. NOTIFY THE ARCHITECT AND CONSULTANT OF ANY DRAWING DISCREPANCIES.
14. DO NOT COPY OR DISTRIBUTE THESE AUDIOVISUAL DRAWINGS. UNAUTHORIZED DISTRIBUTION OF ANY PORTION OF THESE DRAWINGS, ELECTRONIC OR PAPER IS PROHIBITED.

ABBREVIATIONS:

- AFF - ABOVE FINISHED FLOOR

CLG - CEILING

SFC - BELOW FINISHED CEILING

NGC - NOT IN CONTRACT

TEMP - TEMPORARY

TYP - TYPICAL

UOF - UNLESS OTHERWISE NOTED

OF - OWNER FURNISHED EQUIPMENT

EX - EXISTING TO REMAIN

RL - RELOCATE
- WW - WIREWAY

WAP - WIRELESS ACCESS POINT

WP - WEATHERPROOF

GND - GROUND

MM - MULTIMODE

SM - SINGLE-MODE

FB - FLOOR BOX

JB - JUNCTION BOX

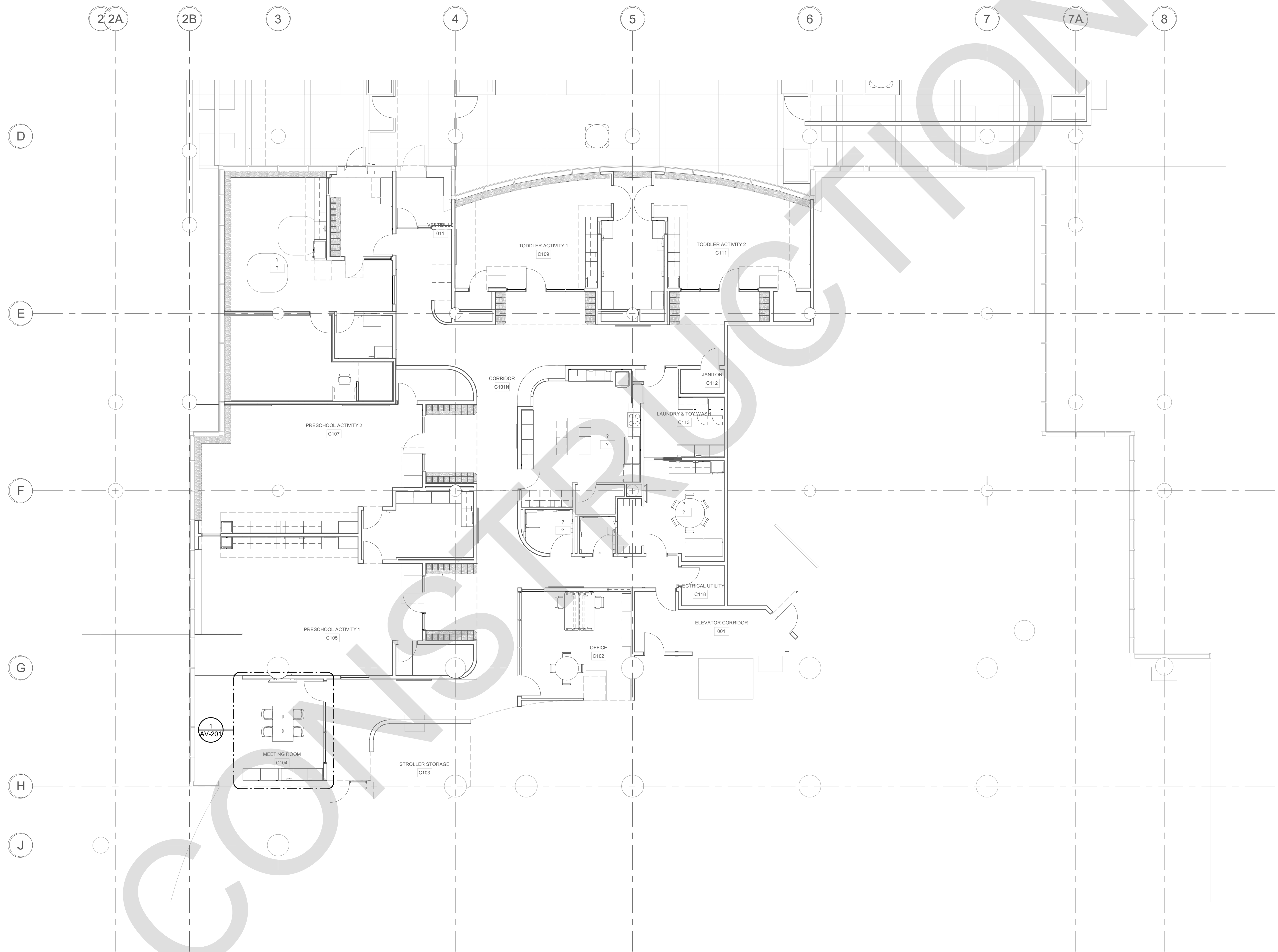
UPS - UNINTERRUPTIBLE POWER SUPPLY

AV DRAWING LIST	
AV-001	COVER SHEET
AV-101	DAYCARE AUDIO VISUAL LAYOUT
AV-201	AUDIO VISUAL ROOM ENLARGEMENTS
AV-501	FUNCTIONAL DIAGRAM
AV-502	AV RISER
AV-501	DETAILS

ISSUED		
No.	Date	Description
1	2023-03-17	ISSUED FOR 75% DESIGN REVIEW
2	2023-03-01	ISSUED FOR 95% DRAFT DESIGN REVIEW
3	2023-07-14	ISSUED FOR 95% DESIGN REVIEW
4	2023-08-23	ISSUED FOR APPROVAL
5	2024-02-01	ISSUED FOR TENDER

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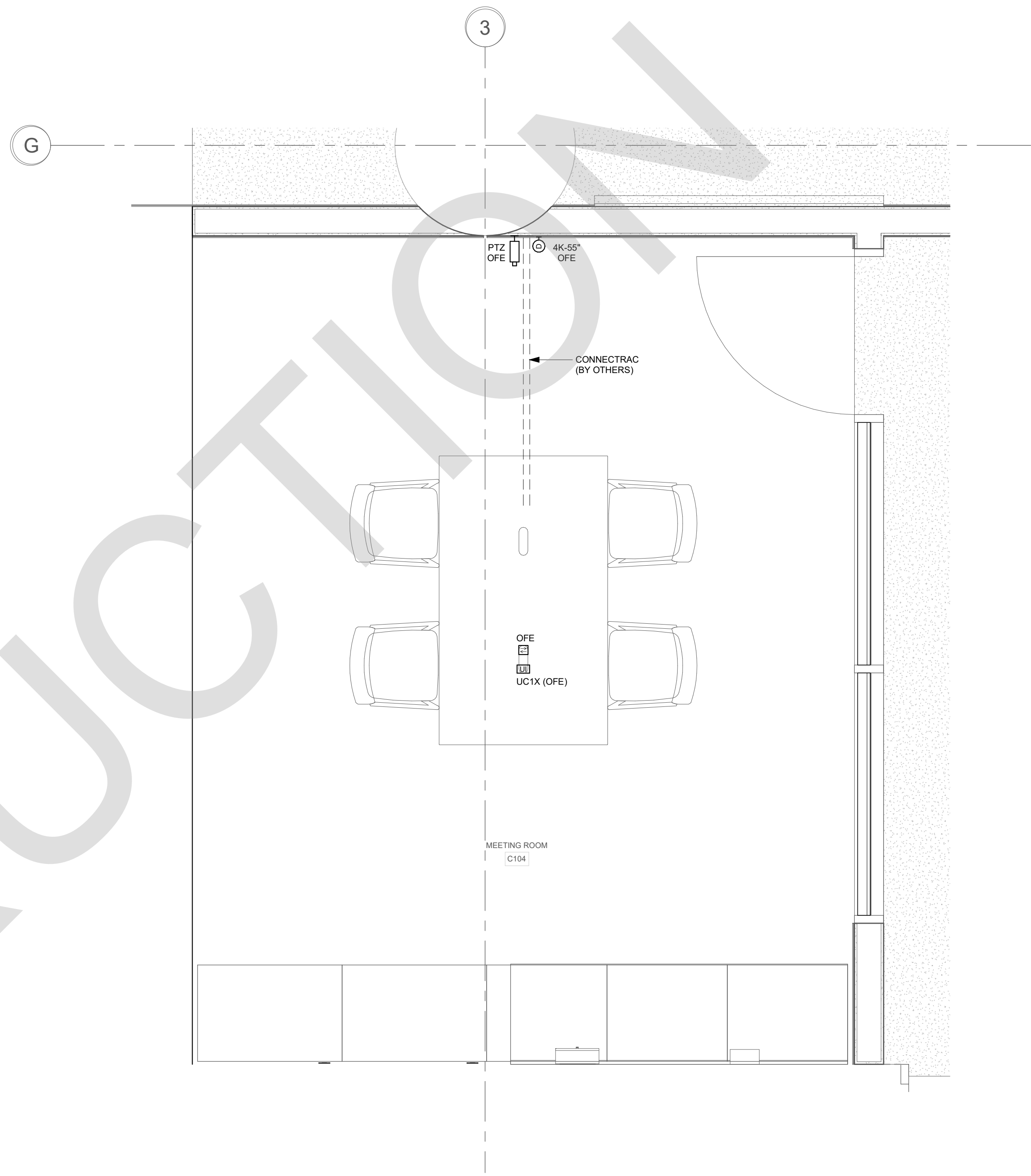
ISSUED		
No.	Date	Description
1	2023-03-17	ISSUED FOR 75% DESIGN REVIEW
2	2023-03-01	ISSUED FOR 60% DRAFT DESIGN REVIEW
3	2023-07-14	ISSUED FOR 60% DESIGN REVIEW
4	2023-08-23	ISSUED FOR APPROVAL
5	2024-02-01	ISSUED FOR TENDER

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NOT FOR CONSTRUCTION



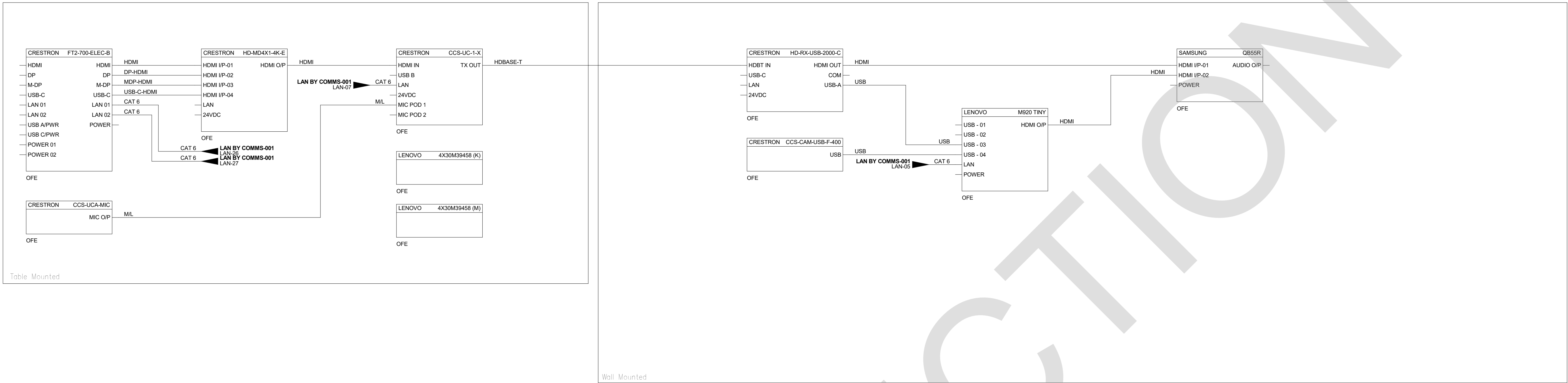
1 DC-AV-MEETING ROOM C104
AV-201 1 : 20

ISSUED		
No.	Date	Description
1	2023-03-17	ISSUED FOR 75% DESIGN REVIEW
2	2023-03-01	ISSUED FOR 65% DRAFT DESIGN REVIEW
3	2023-07-14	ISSUED FOR 65% DESIGN REVIEW
4	2023-08-23	ISSUED FOR APPROVAL
5	2024-02-01	ISSUED FOR TENDER

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1 AV FUNCTIONAL DIAGRAM MEETING ROOM C104
AV-501 NTS

ISSUED		
No.	Date	Description
1	2023-03-17	ISSUED FOR 75% DESIGN REVIEW
2	2023-03-01	ISSUED FOR 95% DRAFT DESIGN REVIEW
3	2023-07-14	ISSUED FOR 95% DESIGN REVIEW
4	2023-08-23	ISSUED FOR APPROVAL
5	2024-02-01	ISSUED FOR TENDER

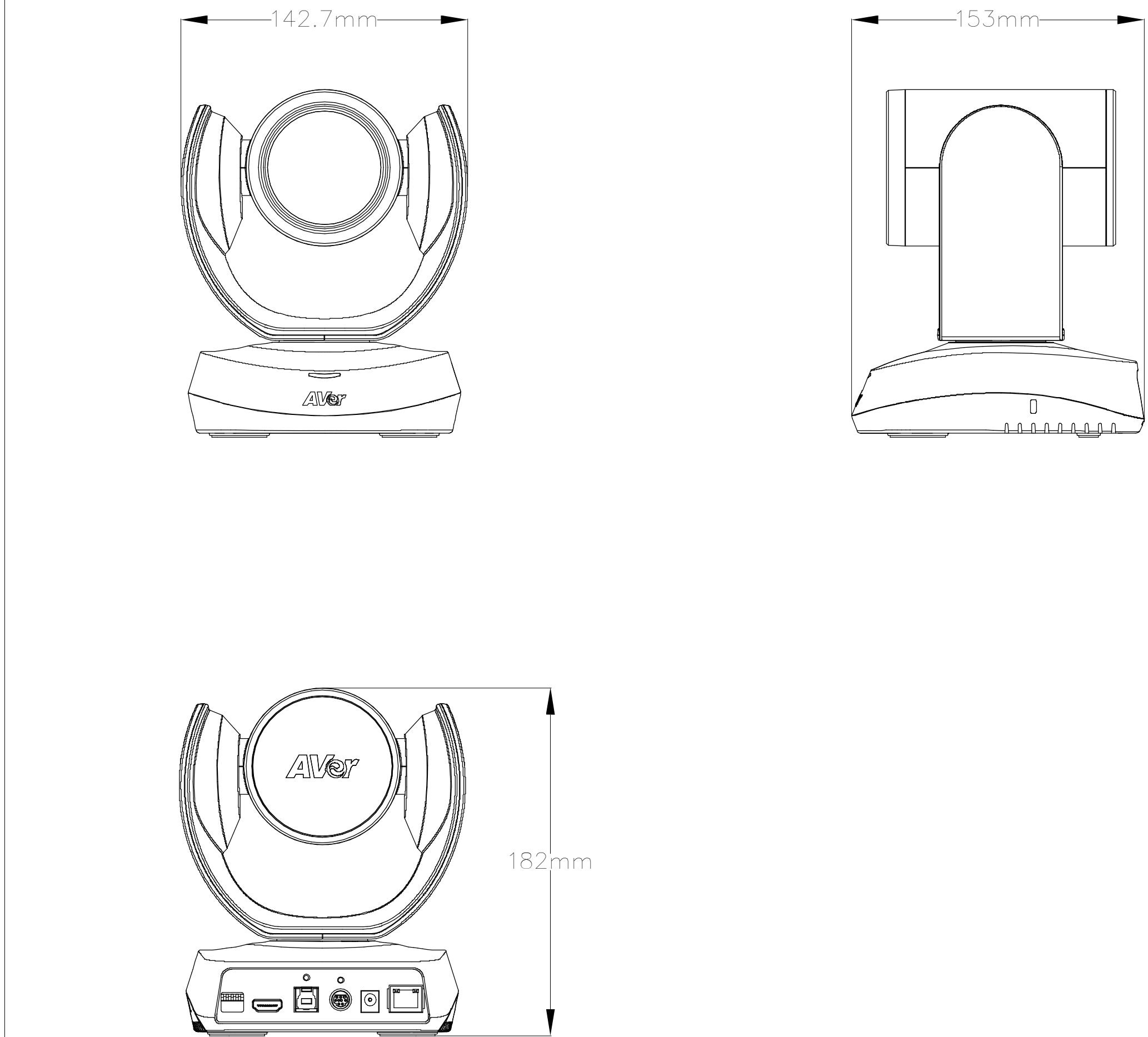
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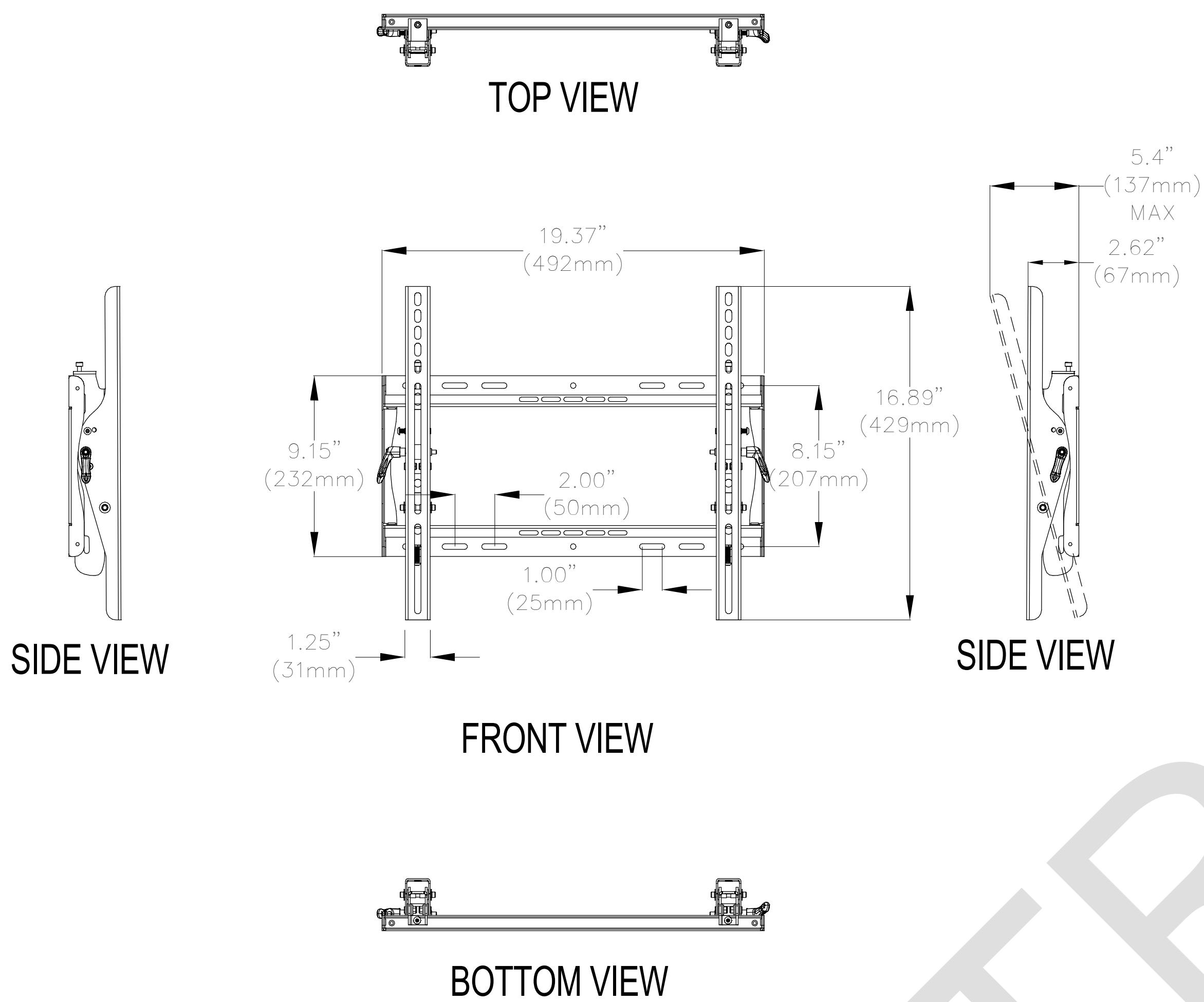
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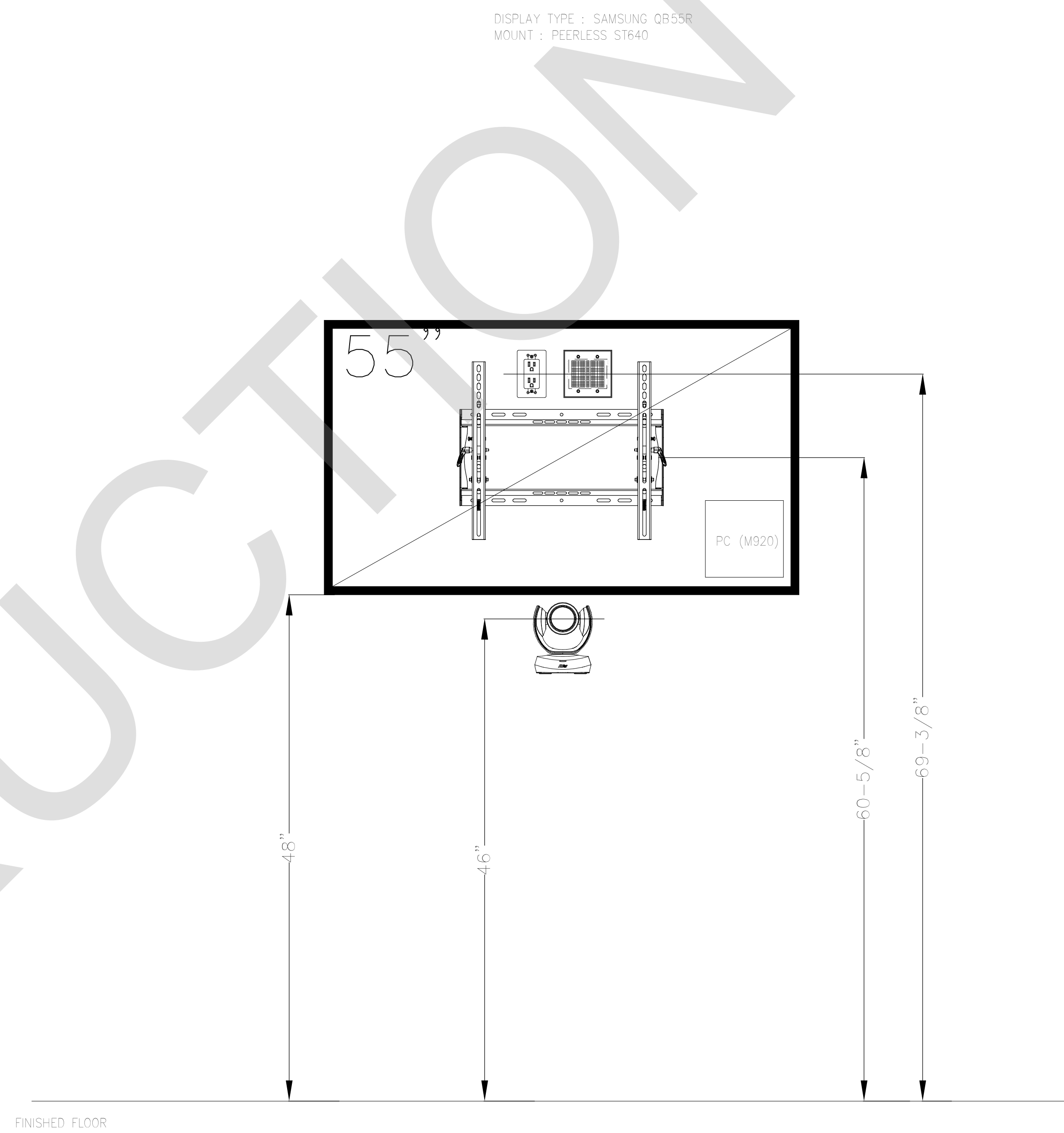
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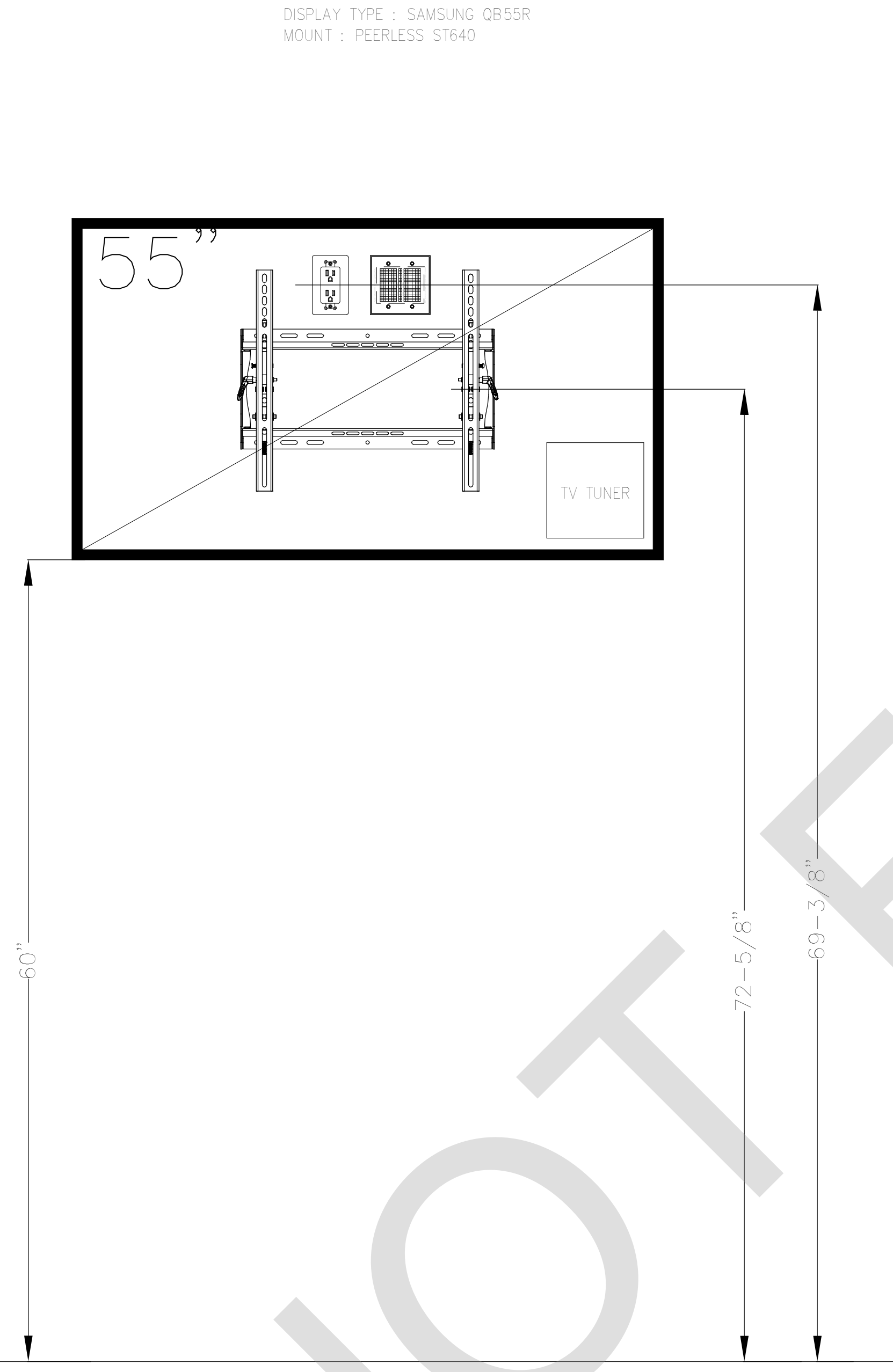
03 AVER CAM520 PRO PTZ CAMERA
SCALE: N.T.S.



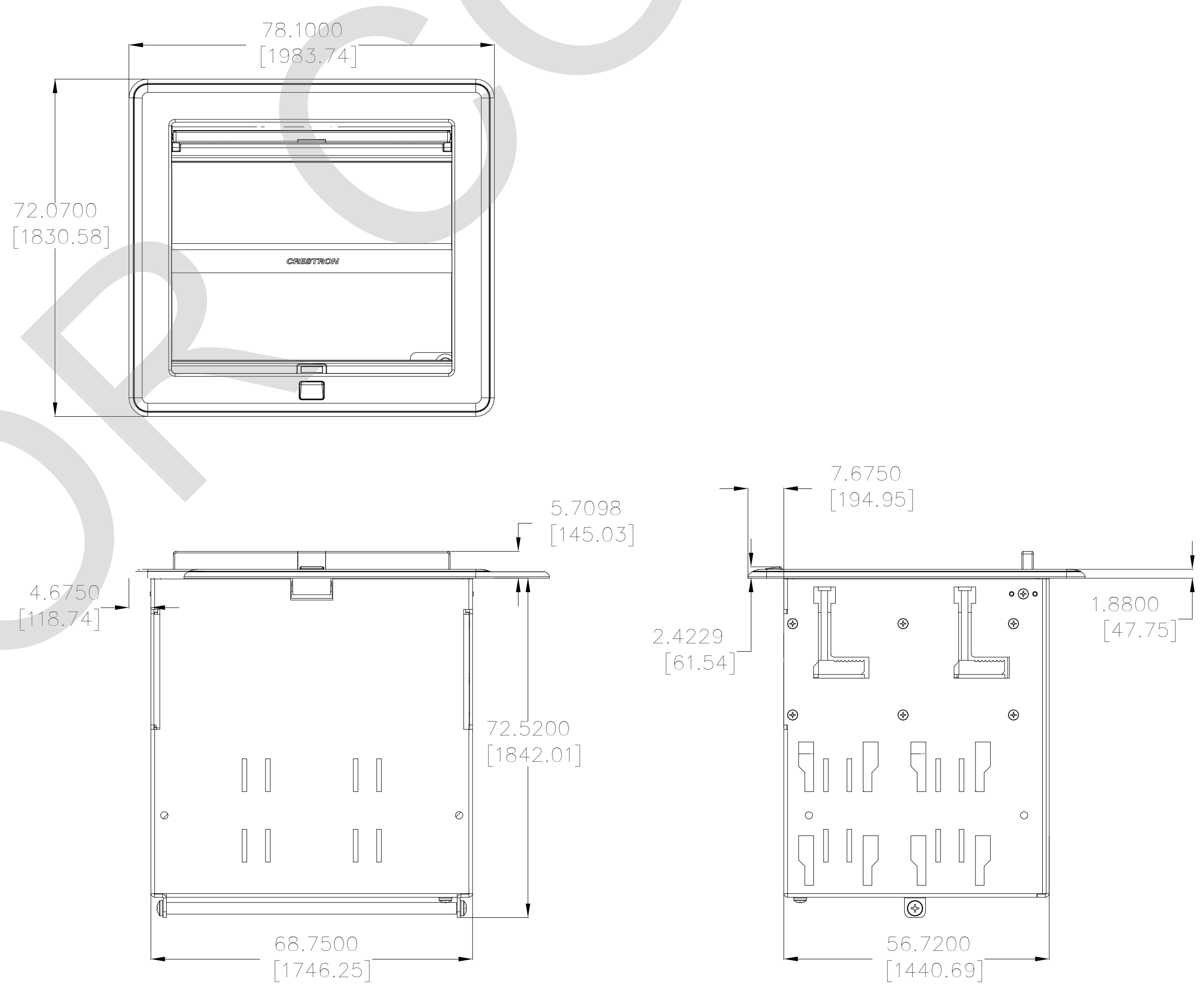
02 PEERLESS ST640 TILTING DISPLAY WALL MOUNT
SCALE: N.T.S.



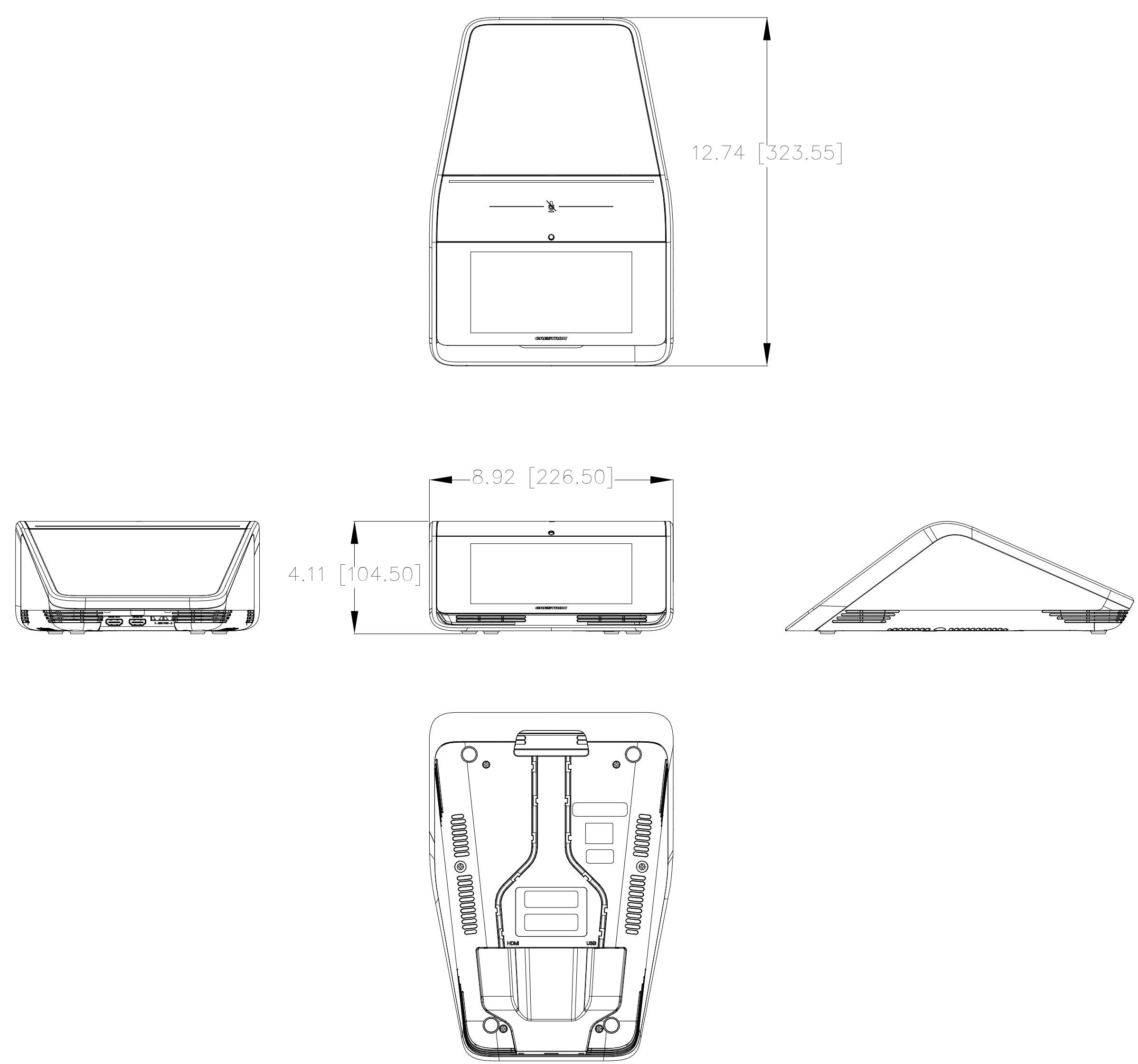
01 MEETING ROOM [56] – ELEVATION
SCALE: N.T.S.



03 STAFF ROOM [55] – ELEVATION
SCALE: N.T.S.



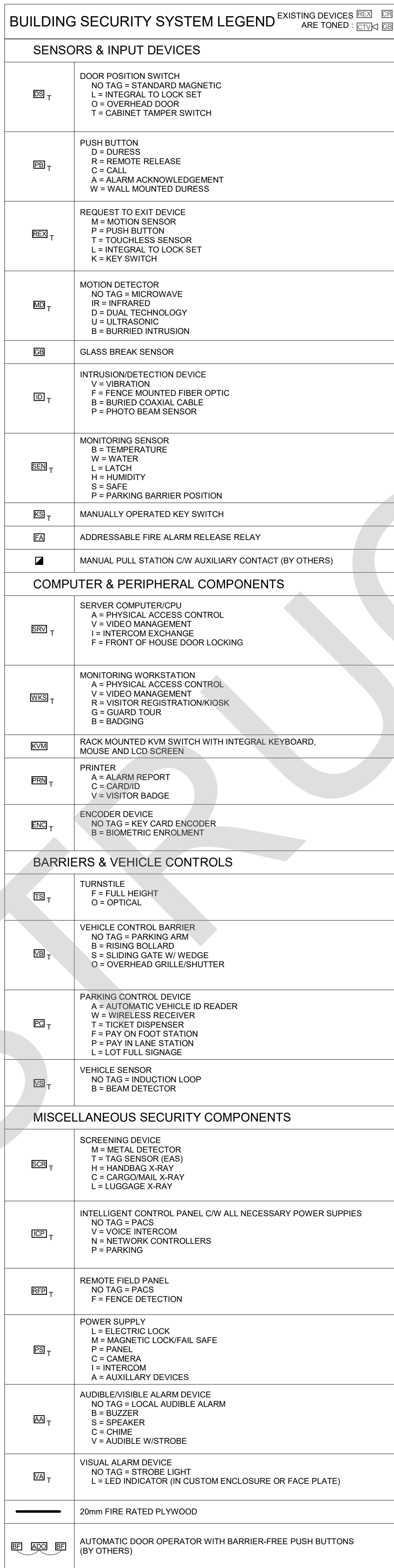
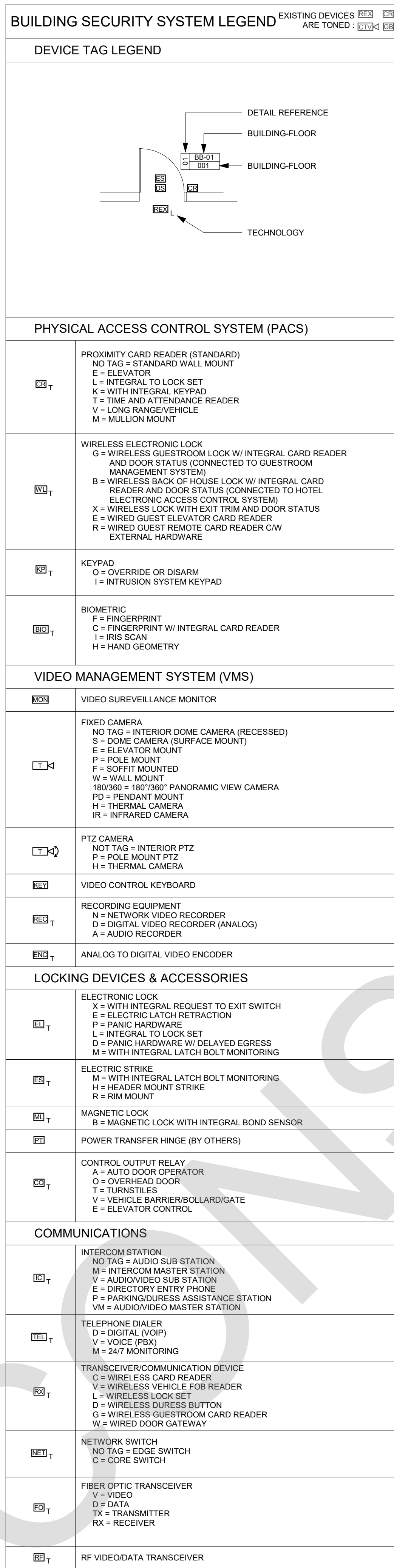
05 CRESTRON FT2-700 TABLE MONUMENT
SCALE: N.T.S.



04 CRESTRON CCS-UC-1-X TABLETOP UC CONSOLE
SCALE: N.T.S.

ISSUED		
No.	Date	Description
1	2023-03-17	ISSUED FOR 75% DESIGN REVIEW
2	2023-03-01	ISSUED FOR 90% DESIGN REVIEW
3	2023-07-14	ISSUED FOR 95% DESIGN REVIEW
4	2023-08-23	ISSUED FOR APPROVAL
5	2024-02-01	ISSUED FOR TENDER

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- THESE DRAWING LOCATIONS INDICATED ON DRAWINGS ARE APPROXIMATE. COORDINATE FINAL INSTALLATION LOCATIONS AND DETAILS WITH THE ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS AND REVIEW SITE CONDITIONS FOR INSTALLATION REQUIREMENTS. ALL DETAILS SHALL SHOW SHALL BE ADAPTED AS REQUIRED TO SUIT THE INSTALLATION AND THE SPECIFIC APPLICATION.
- ARCHITECTURAL PLAIN DRAWING BACKGROUNDS ARE FOR REFERENCE ONLY. REFER TO PROJECT ARCHITECTURAL DRAWINGS AND SITE CONDITIONS. SITE MEASURE FOR EXACT FINISHING AND INSTALLATION REQUIREMENTS.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE BBS SPECIFICATIONS.
- PROVIDE ALL REQUIRED CUTTING, BORING, PATCHING AND FINISHING NECESSARY TO INSTALL THE INSTALLATION. PROVIDE ALL MOUNTS, BACK BOXES, ADAPTERS, FACETAPES, BEZELS, TRIM, ETC. UNLESS OTHERWISE NOTED.
- PROVIDE COMPLETE SHOP DRAWINGS AND DETAILS FOR ALL PROPOSED INSTALLATIONS. OBTAIN ARCHITECT'S APPROVAL FOR ALL INSTALLATIONS.
- COORDINATE ALL INSTALLATIONS AND WORK. OBTAIN ALL NECESSARY APPROVALS AND PERMITS.
- PROVIDE ALL INSTALLATIONS IN COMPLIANCE WITH APPLICABLE CODES AND SITE INSTALLATION STANDARDS AND GUIDELINES.
- PROVIDE ALL DEVICES AND INSTALLATIONS WITH A COLOR AND FINISH TO MATCH THE INSTALLATION LOCATION. OBTAIN ARCHITECT'S APPROVAL FOR ALL INSTALLATIONS OF DEVICES AND COMPONENTS.
- NOTIFY THE ARCHITECT AND CONSULTANT OF ANY DRAWING DISCREPANCIES.
- ALL SECURITY SYSTEM CABLEING SHALL BE INSTALLED WITH DEDICATED CONDUIT. PROVIDE ALL CONDUIT SIZES FOR SECURITY SYSTEM CABLEING.
- CONDUIT SIZES INDICATED ON THE DRAWINGS AND HOME RUN SIZES SHOWN ON DETAIL SHEETS ARE TO BE NOT CONSIDERED THE MINIMUM SIZE TO BE INSTALLED. PROVIDE LARGER OR ADDITIONAL CONDUIT IF REQUIRED. CONDUIT SIZES INDICATE DEDICATED HOME RUNS, BUT MAY BE COMBINED WITH OTHER LOCATIONS BY SYSTEM TYPE (CCTV, PAGES, ETC.) AS LONG AS SEC MAXIMUM FILL REQUIREMENTS ARE MAINTAINED. PROVIDE LARGER CONDUIT SIZES FOR COMBINED DEVICE HOME RUNS.
- UNLESS NOTED OTHERWISE, ALL CONDUIT AND BACKBOXES SHALL BE INSTALLED CONCEALED WITHIN WALLS AND ABOVE FINISHED CEILINGS. OBTAIN APPROVAL FOR ANY PROPOSED INSTALLATION OF EXPOSED OR SURFACE CONDUIT, DEVICES, ETC.
- SECURITY WIRING, CONDUIT AND JUNCTION BOXES SHALL BE INSTALLED ON THE SECURE SIDE OF DOOR (BETWEEN SECURE SPACES).
- REFER TO THE BUILDING ELECTRICAL DRAWINGS FOR THE ELECTRICAL DISTRIBUTION SYSTEM.
- DO NOT COPY OR DISTRIBUTE THESE SECURITY DRAWINGS. UNAUTHORIZED DISTRIBUTION OF ANY PORTION OF THESE DRAWINGS, ELECTRONIC OR PAPER, IS PROHIBITED.



ABBREVIATIONS

AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C/G	CEILING
NC	NOT IN CONTRACT
PS	PULLBOX
R	REMO (REMOVE)
RP	RELOCATED POSITION
TEMP	TEMPORARY
TYP	TYPICAL
UN	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
WP	WEATHER PROOF

RESPONSIBILITY MATRIX

SYSTEM	ACCESS CONTROL	BIOMETRIC SYSTEMS	GUESTROOM ACCESS	VIDEO MANAGEMENT	INTERCOM	DOOR HARDWARE
WORK						
ROUGH- CONDUIT	ELEC	N/A	ELEC	ELEC	ELEC	ELEC/DOOR
CABLEING TERMINATION	SEC	N/A	CBL	CBL	SEC/CBL	DOOR/SEC
FIELD-DEVICE INSTALLATION TERMINATION	SEC	N/A	SEC	SEC	SEC	DOOR/SEC
PROGRAMMING	SEC	N/A	SEC	SEC	N/A	N/A
COMMISSIONING TESTING	SEC	N/A	SEC	SEC	N/A	DOOR/SEC
ELEC = ELECTRICAL CONTRACTOR (DV 26) CBL = STRUCTURED CABLEING CONTRACTOR (DV 27) SEC = SECURITY CONTRACTOR (DV 28) DOOR = DOOR HARDWARE CONTRACTOR (DV 29)						

DRAWING ANNOTATION

②	REFER TO DRAWING NOTE NUMBER
-----	DENOTES EXISTING DEVICE(S). WIRING OR CONDUIT TO BE 'REMOVED'
DWG. E-XXX	DENOTES MATCHLINE
 DWG. E-XXX	DENOTES CROSS SECTION DETAIL. CALL OUT
	DENOTES DETAIL. CALL OUT

SECURITY DRAWING LIST	
SD-001	COVER SHEET
SD-101A	DAYCARE DEMOLITION LAYOUT
SD-101B	DAYCARE SECURITY LAYOUT
SD-301	DETAILS

No.	Date	Description
1	2023-03-17	ISSUED FOR 75% DESIGN REVIEW
2	2023-05-01	ISSUED FOR 95% DRAFT DESIGN REVIEW
3	2023-07-14	ISSUED FOR 95% DESIGN REVIEW
4	2023-08-23	ISSUED FOR APPROVAL
5	2024-02-01	ISSUED FOR TENDER

ELEC = ELECTRICAL CONTRACTOR (DIV. 26)
CBL = STRUCTURED CABLING CONTRACTOR (DIV. 27)
SEC = SECURITY CONTRACTOR (DIV. 28)
DOOR = DOOR HARDWARE CONTRACTOR (DIV. 8)


DRAWING ANNOTATION

(X)	REFER TO DRAWING NOTE' NUMBER
-----	-------------------------------

----- DENOTES EXISTING DEVICE(S), WIRING OR CONDUIT TO BE REMOVED

DWG. E-xx

DWG. E-xxx

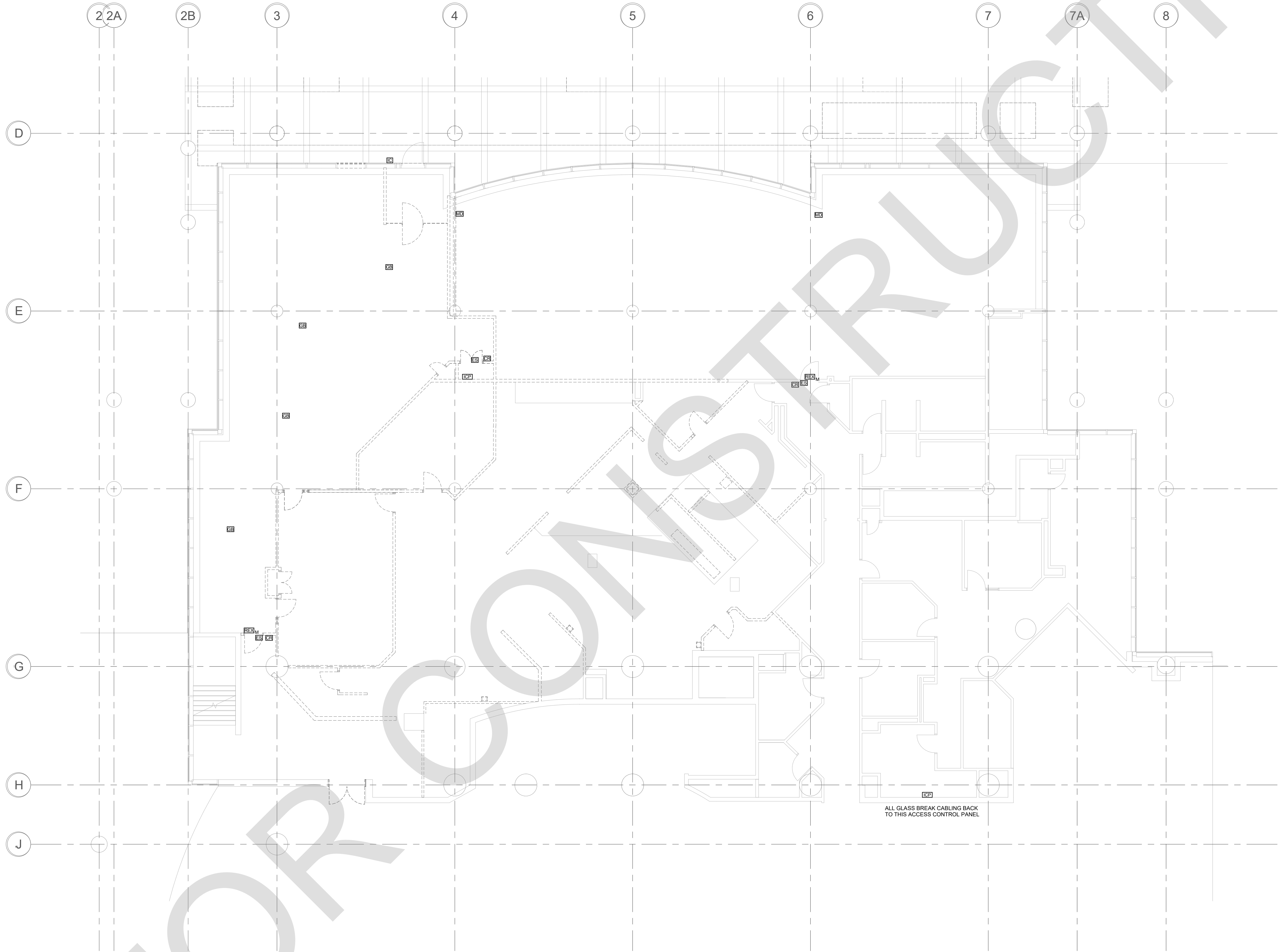
 DENOTES CROSS SECTION DETAIL CALL OUT

DENOTES DETAIL CALL OUT

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NOTE:
1. ALL DEVICES ON THIS DRAWING SHALL BE REMOVED AND HANDED OVER TO THE CLIENT.
2. ACCESS CONTROL PANEL LOCATED IN THE DEMOLITION SPACE SHALL BE REMOVED AND HANDED OVER TO THE CLIENT.
3. ALL CABLING SHALL BE COMPLETELY REMOVED.

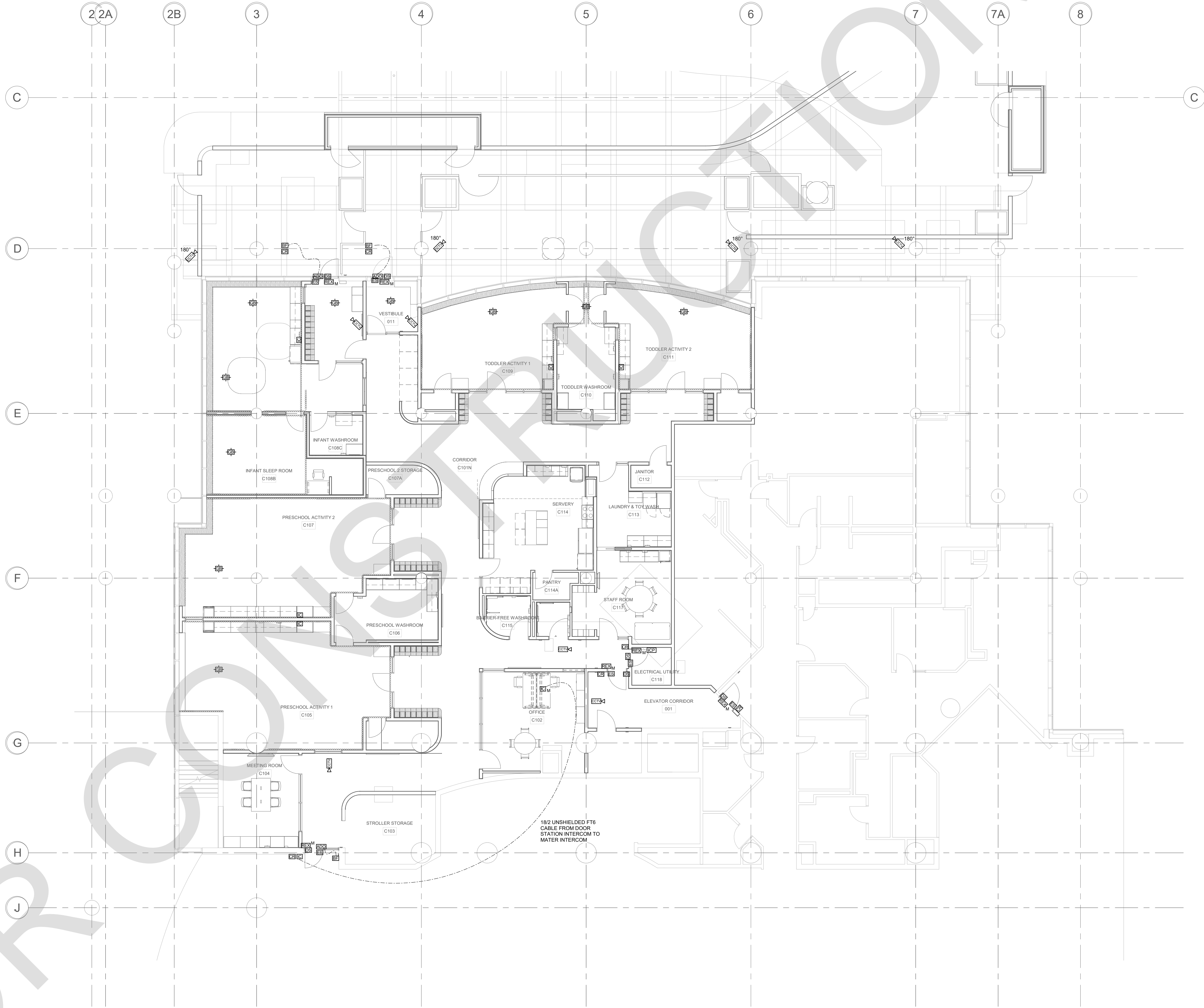


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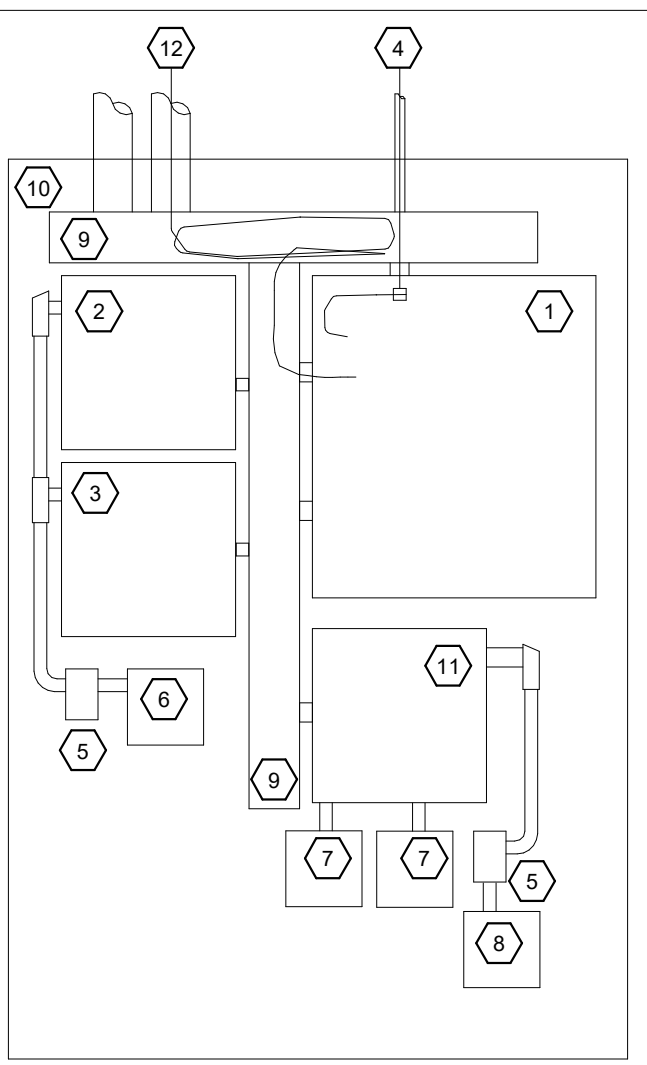
ISSUED		
No.	Date	Description
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3	2023-07-14	ISSUED FOR 60% DESIGN REVIEW
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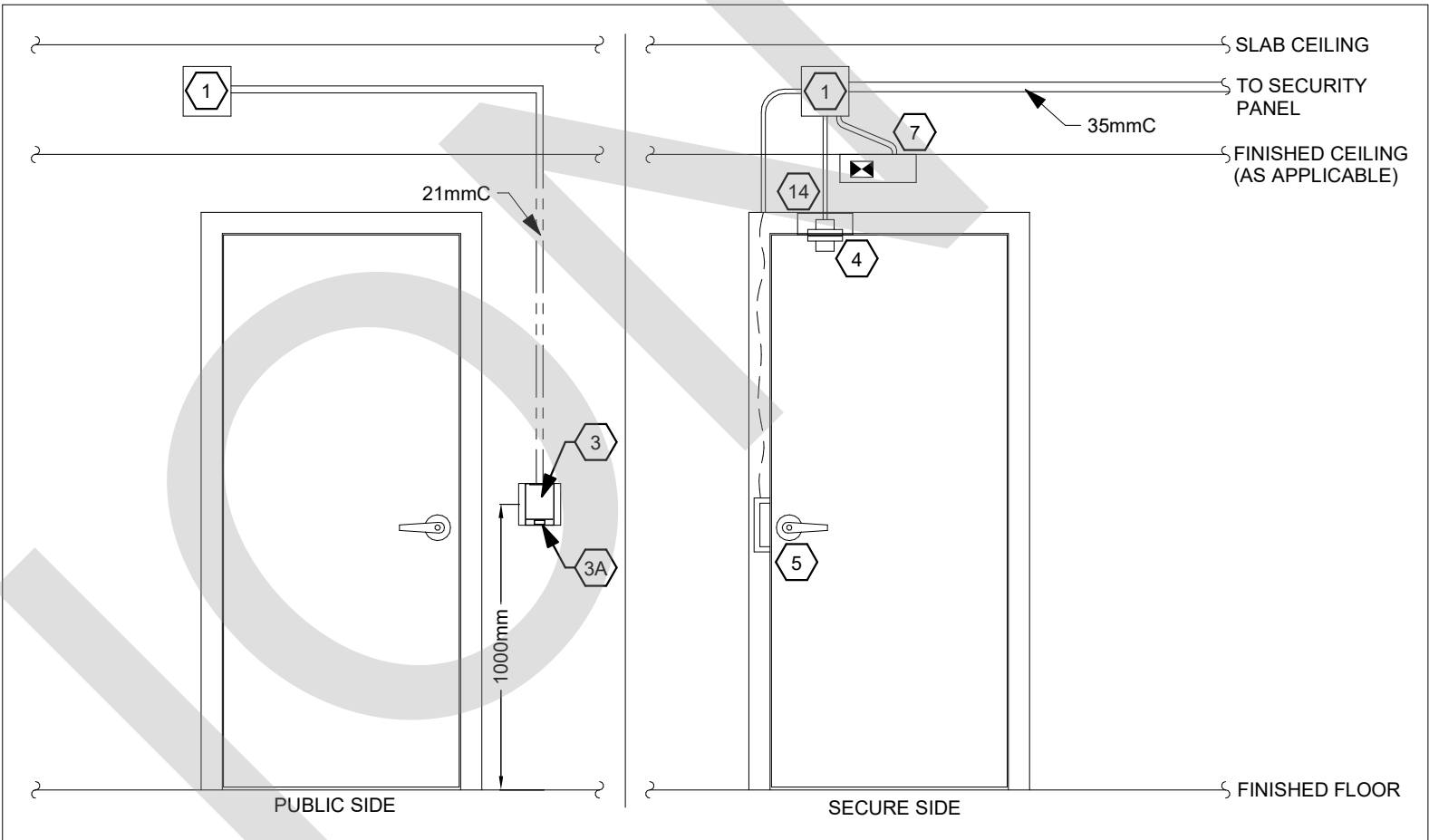
DOOR LEGEND & MATERIALS		
1 SECURITY JUNCTION BOX ON SECURE SIDE OF DOOR (BY ELECTRICAL)	10 OVER HEAD DOOR POSITION SENSOR WITH FLEXIBLE ARMOR CONDUIT	LINE TYPES LEGEND
2 MAGNETIC LOCK	16 AUTOMATIC DOOR OPERATOR PUSHBUTTON (BY DOOR HARDWARE)	
3 PROXIMITY CARD READER	17 GUESTROOM WIRELESS LOCKSET W/ INTEGRATED CARD READER AND DOOR POSITION SWITCH	CABLE INSIDE DOOR FRAMES/DOORS
4A DOUBLE GANG BACK BOX W/ SINGLE GANG TRIM PLATE (BY ELECTRICAL)	18 WIRELESS LOCK GATEWAY	
4 RECESSED DOOR POSITION SWITCH	19 PANIC BAR	CONDUIT INSTALLED IN WALL SPACE
5 ELECTRIC STRIKE	20 RETRACTABLE LATCH	CONDUIT INSTALLED IN CEILING SPACE
6 POWER TRANSFER HINGE	21 FDH REMOTE CARD READER BEHIND DECORATIVE PLATE	
7 REQUEST TO EXIT MOTION DETECTOR	22 ELECTRIC MORTISE LOCK W/ INTEGRATED REQUEST TO EXIT	
8 REQUEST TO EXIT PUSH BUTTON	23 WIRELESS LOCK SET WITH INTEGRATED CARD READER, DOOR SWITCH, AND REQUEST TO EXIT	
9 AUTO DOOR OPERATOR EQUIPMENT (BY DOOR HARDWARE)	24 INTERCOM	
10 CONCEALED LATCHING DURESS BUTTON	25 ELECTRIFIED PANIC W/ INTEGRATED REQUEST TO EXIT	
11 SINGLE GANG LATCHING DURESS	26 WIRED LOCK GATEWAY	
12 MANUAL FIRE ALARM PULL STATION C/W AUXILIARY CONTACTS (BY FIRE ALARM CONTRACTOR)	27 GUESTROOM MANAGEMENT SYSTEM CONTROLLER BY GUESTROOM MANAGEMENT	
13 MECHANICAL FLUSH BOLT		
14 DUST BOX / MORTAR SHIELD IN FRAME AS REQUIRED (BY DOOR HARDWARE)		

CAMERA LEGEND & MATERIALS		
1 SECURITY CAMERA	10 SECURITY JUNCTION BOX	LINE TYPES LEGEND
2 SECURITY JUNCTION BOX	11 AUXILIARY DEVICE (GLASS BREAK, AUDIBLE ALARM, MOTION DETECTOR, ETC.)	
3 UTP MEDIA CONVERTER	12 BLUE STROBE LIGHT	CABLE RAN INSIDE DOOR FRAMES/DOORS
4 POE INJECTOR	13 PUSH RED BUTTON FOR ASSISTANCE	
5 CAMERA POWER SUPPLY	14 SPEAKER	CONDUIT INSTALLED IN WALL SPACE
6 RECEPTACLE (BY ELECTRICAL CONTRACTOR)	15 MICROPHONE	CONDUIT INSTALLED IN CEILING SPACE
7 PENDANT ADAPTOR	16 VIDEO CAMERA FOR ASSISTANCE STATION	
8 BRACKET HOLDER	17 PARAPET MOUNT	
9 STEEL STRAPS		

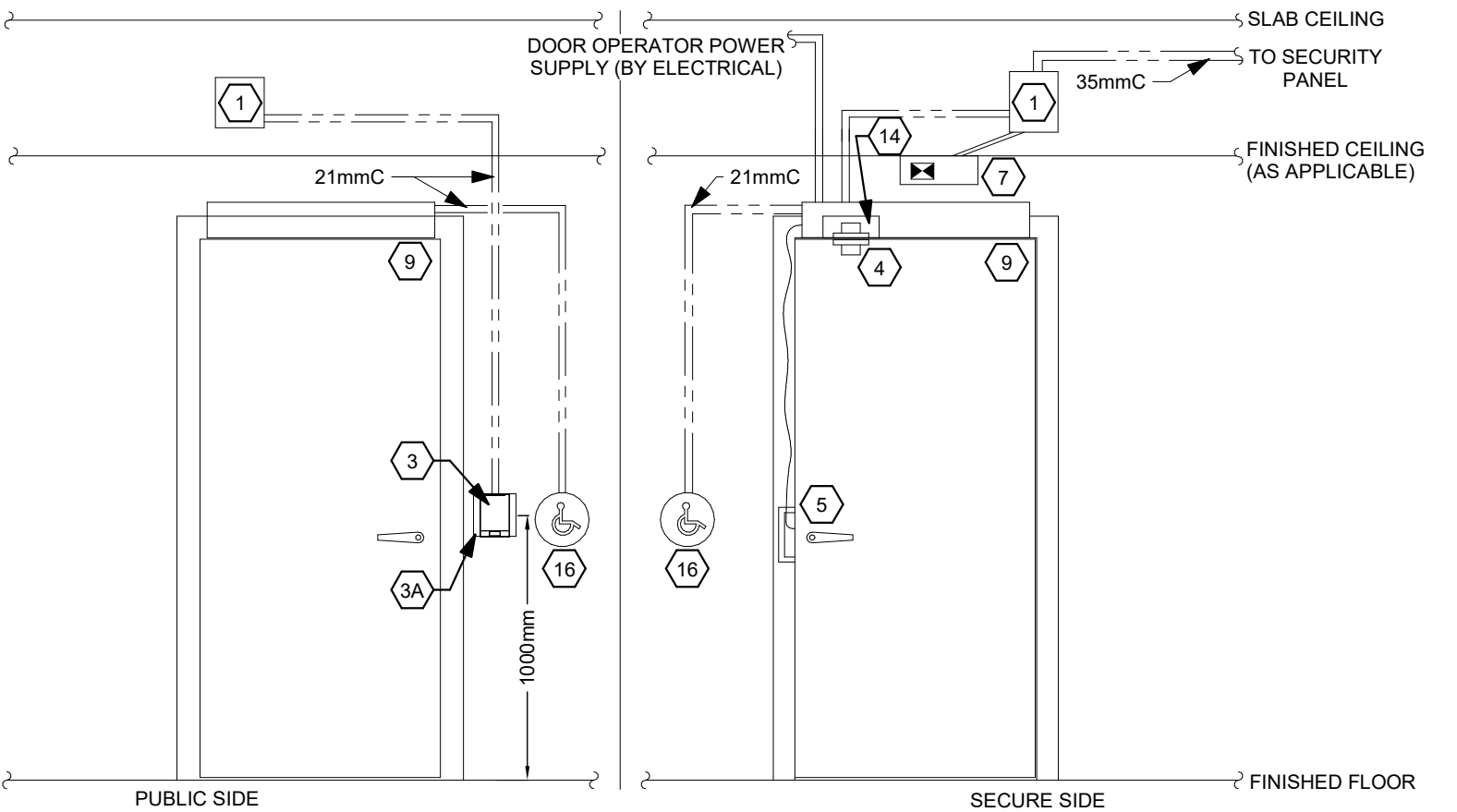
- EQUIPMENT:**
- 1 PACS INTELLIGENT CONTROL PANEL (16 READERS)
 - 2 PACS PANEL POWER SUPPLY
 - 3 ELECTRIC LOCK POWER SUPPLY
 - 4 NETWORK CABLE W/ RJ45 MODULE & PATCH CABLE (BY COMMUNICATIONS CONTRACTOR)
 - 5 120V FEED THROUGH BLANK GFI OUTLET
 - 6 120V DIRECT CONNECT UPS/EMERGENCY POWER ON DEDICATED ELECTRICAL CIRCUIT
 - 7 NIC FIRE ALARM ADDRESSABLE RELAY FOR OVERRIDE/RESET (BY FA CONTRACTOR)
 - 8 120V DIRECT CONNECT NORMAL POWER ON DEDICATED ELECTRICAL CIRCUIT
 - 9 4" TROUGH OR WIRE CHANNEL W/ COVER PLATE
 - 10 FIRE RATED PLYWOOD BACKBOARD
 - 11 MAGLOCK/FALF SAFE LOCK POWER SUPPLY
 - 12 ACCESS CONTROL CABLE W/ SERVICE LOOP IN TROUGH (TYPICAL FOR EACH DOOR)



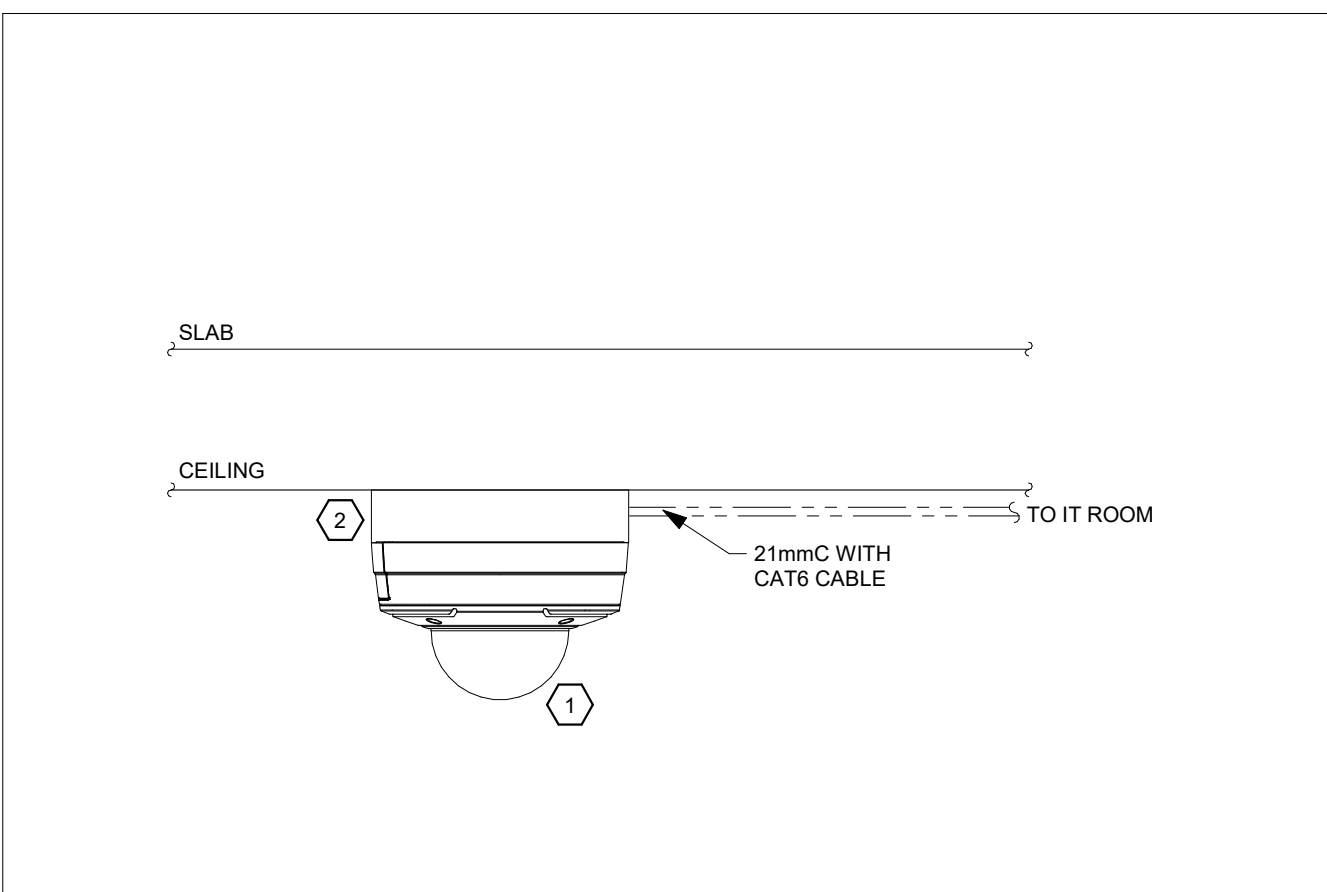
6 TYPICAL ACCESS CONTROL PANEL MOUNTING DETAIL



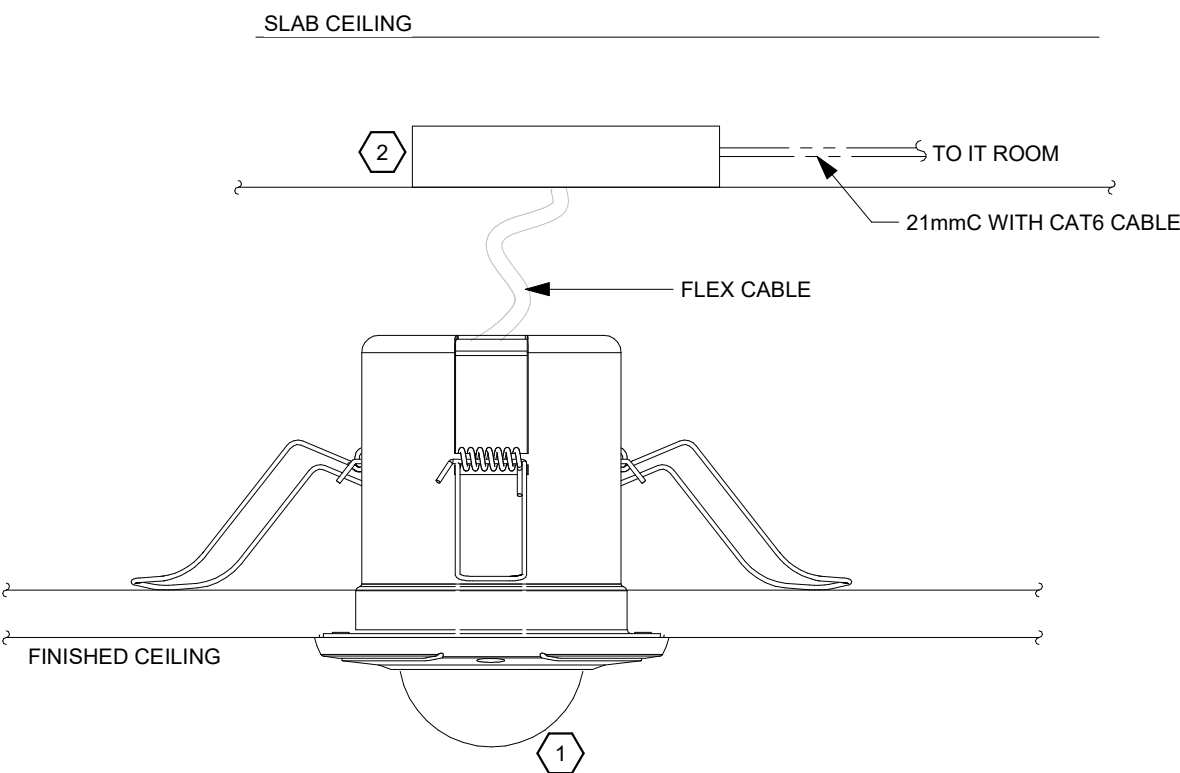
1 SINGLE DOOR W/ READER IN, ELECTRIC STRIKE



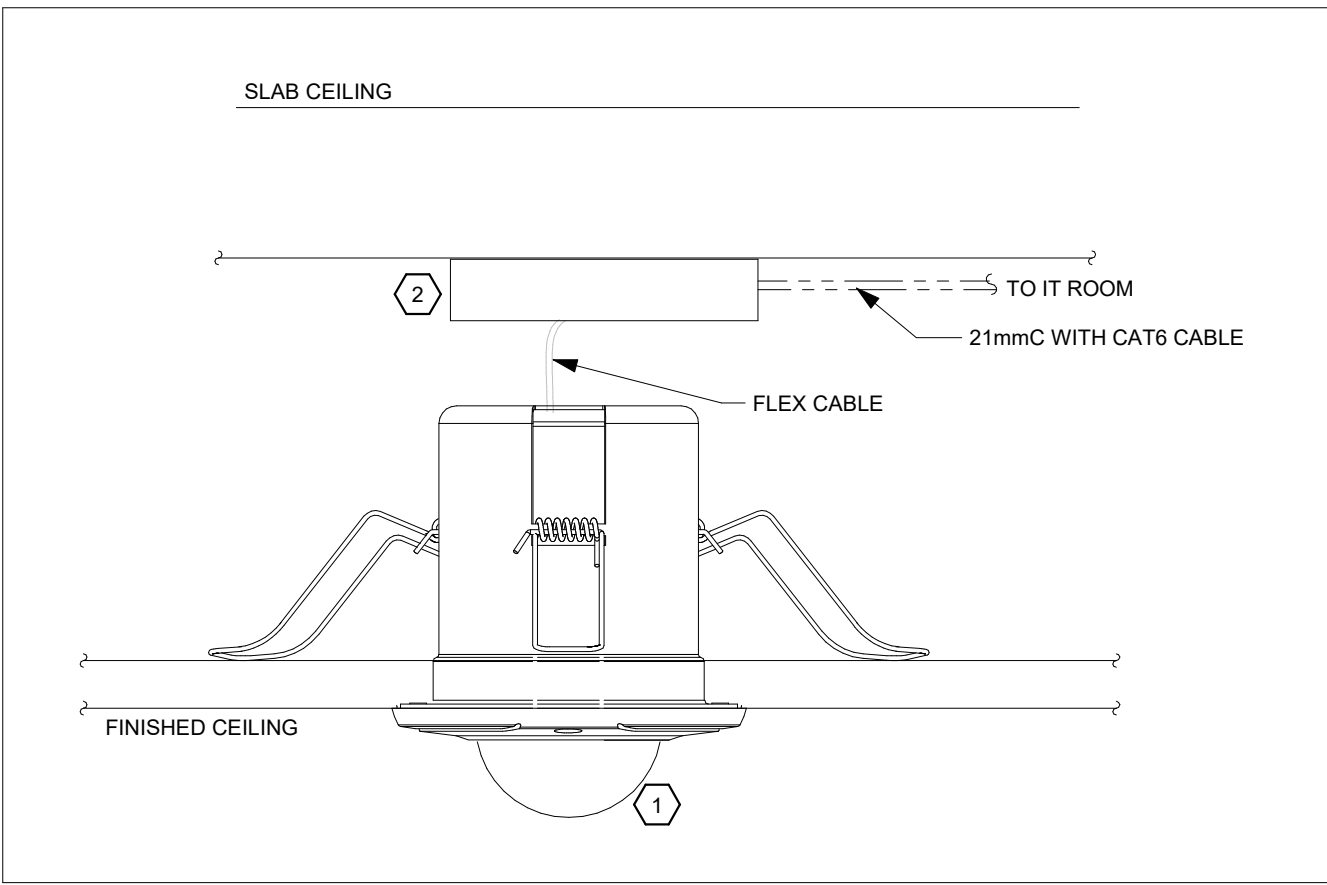
2 SINGLE DOOR W/ READER IN, BARRIER FREE, ELECTRIC STRIKE



3 TYPICAL SURFACE MOUNT CAMERA DETAIL

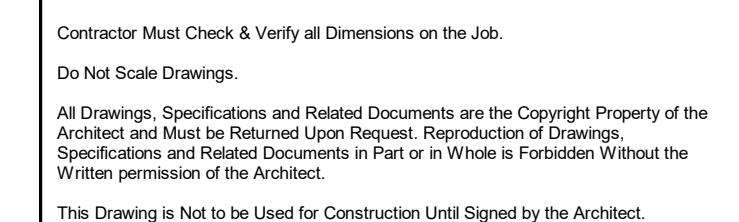


4 TYPICAL RECESSED MOUNTED CAMERA DETAIL



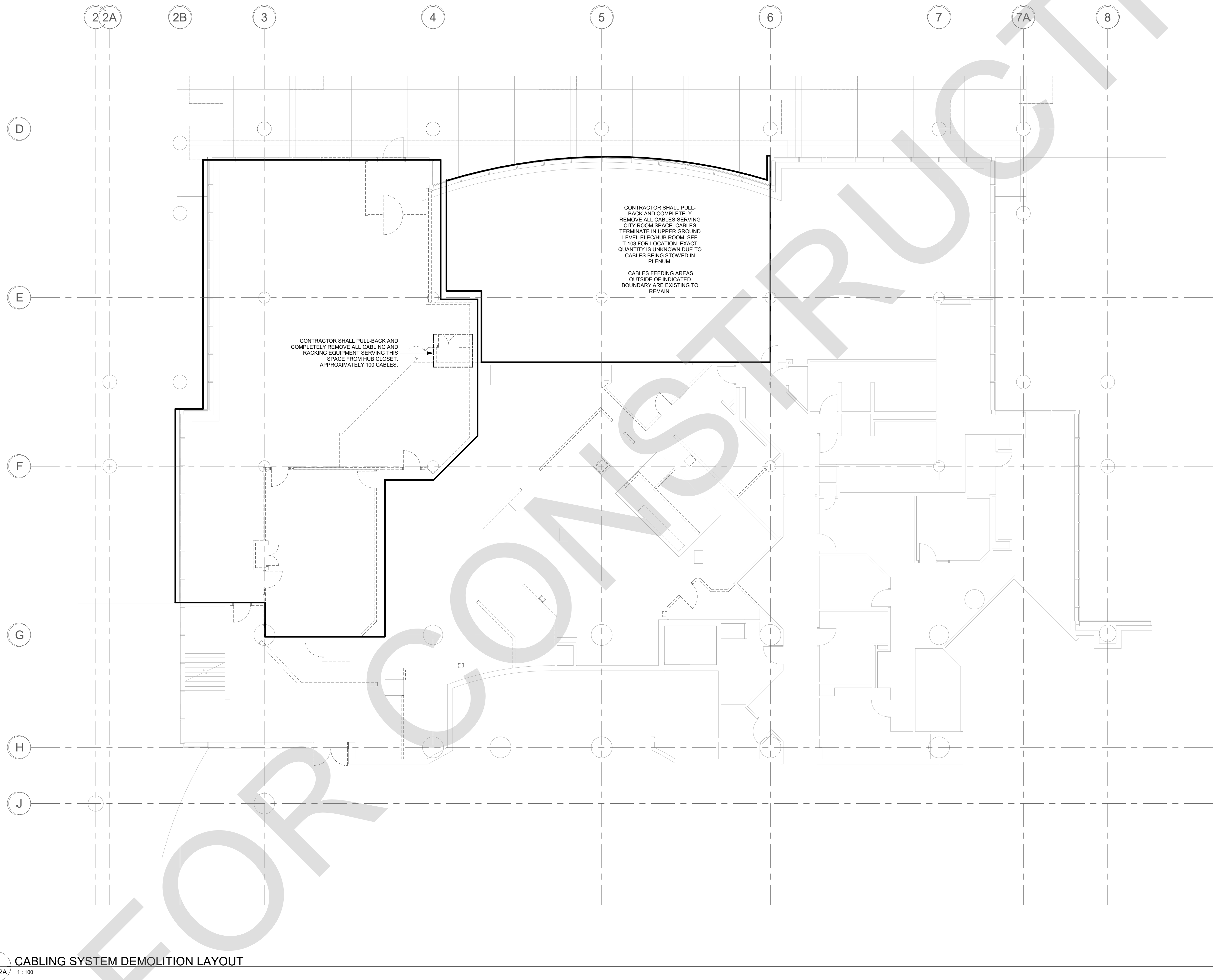
5 TYPICAL RECESSED MOUNTED CAMERA IN DROP CEILING

No.	Date	Description
1	2023-03-17	ISSUED FOR 75% DESIGN REVIEW
2	2023-03-01	ISSUED FOR 95% DESIGN REVIEW
3	2023-07-14	ISSUED FOR 95% DESIGN REVIEW
4	2023-08-23	ISSUED FOR APPROVAL
5	2024-02-01	ISSUED FOR TENDER



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ISSUED		
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3	2023-07-14	ISSUED FOR 65% DESIGN REVIEW
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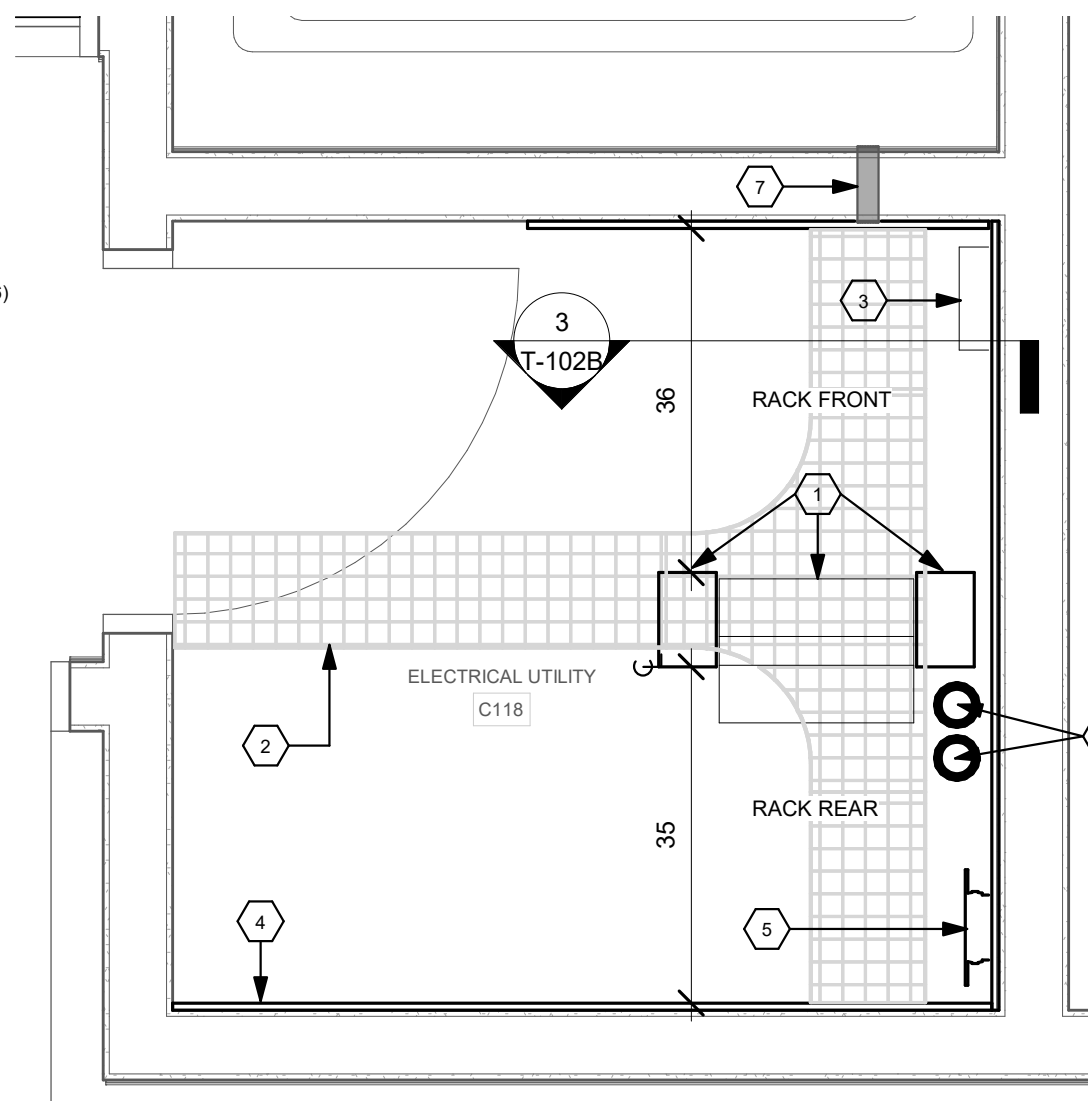
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- EQUIPMENT:
- 2-PORT RACK CW 2 x 4" SINGLE-SIDED VERTICAL CABLE MANAGERS WITH DOORS (BY COMMS)
 - 12"W x 4"D WIRE-MESH BASKET TRAY (BY COMMS)
 - IDC BLOCK FOR COPPER BACKBONE (BY COMMS)
 - 3/4" FIRE-RATED PLYWOOD BACKBOARD, TYPICAL (BY DV. 26)
 - SECONDARY BONDING BUSBAR 5/8" (BY DV. 26)
 - 2 x 13mm CONDUITS TO LOWER LEVEL (BY DV. 26)
 - 53mm EMT SLEEVE (BY DV. 26)

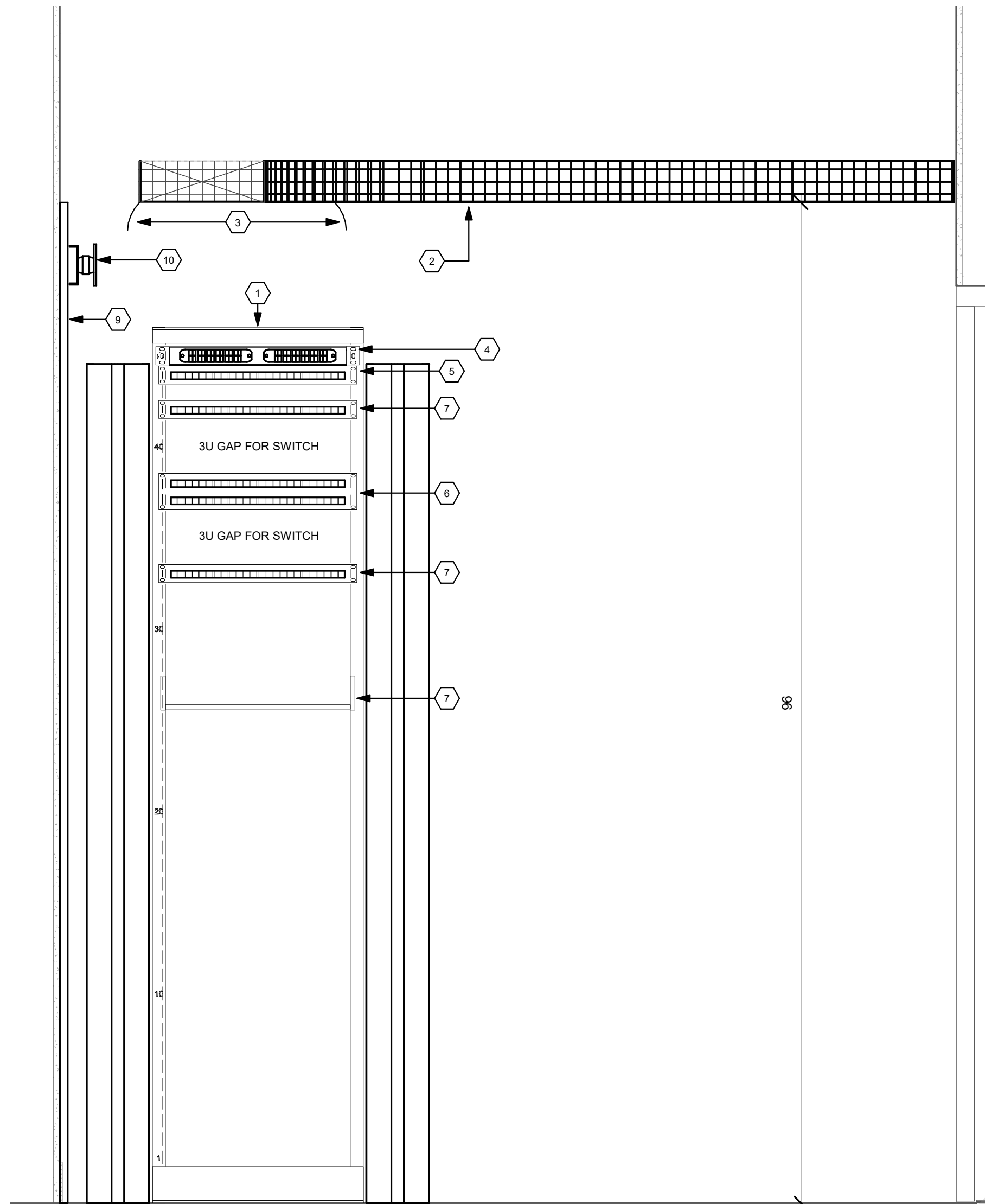
- NOTES:
- CONTRACTOR SHALL ENSURE TO INSTALL RACK AND CABLE MANAGERS ALLOWING 1-METER CLEARANCE FOR ELECTRICAL PANELS
 - ALL CABLES FOR CCTV CAMERAS SHALL BE RUN IN DEDICATED CONDUIT PROVIDED BY DV. 26.



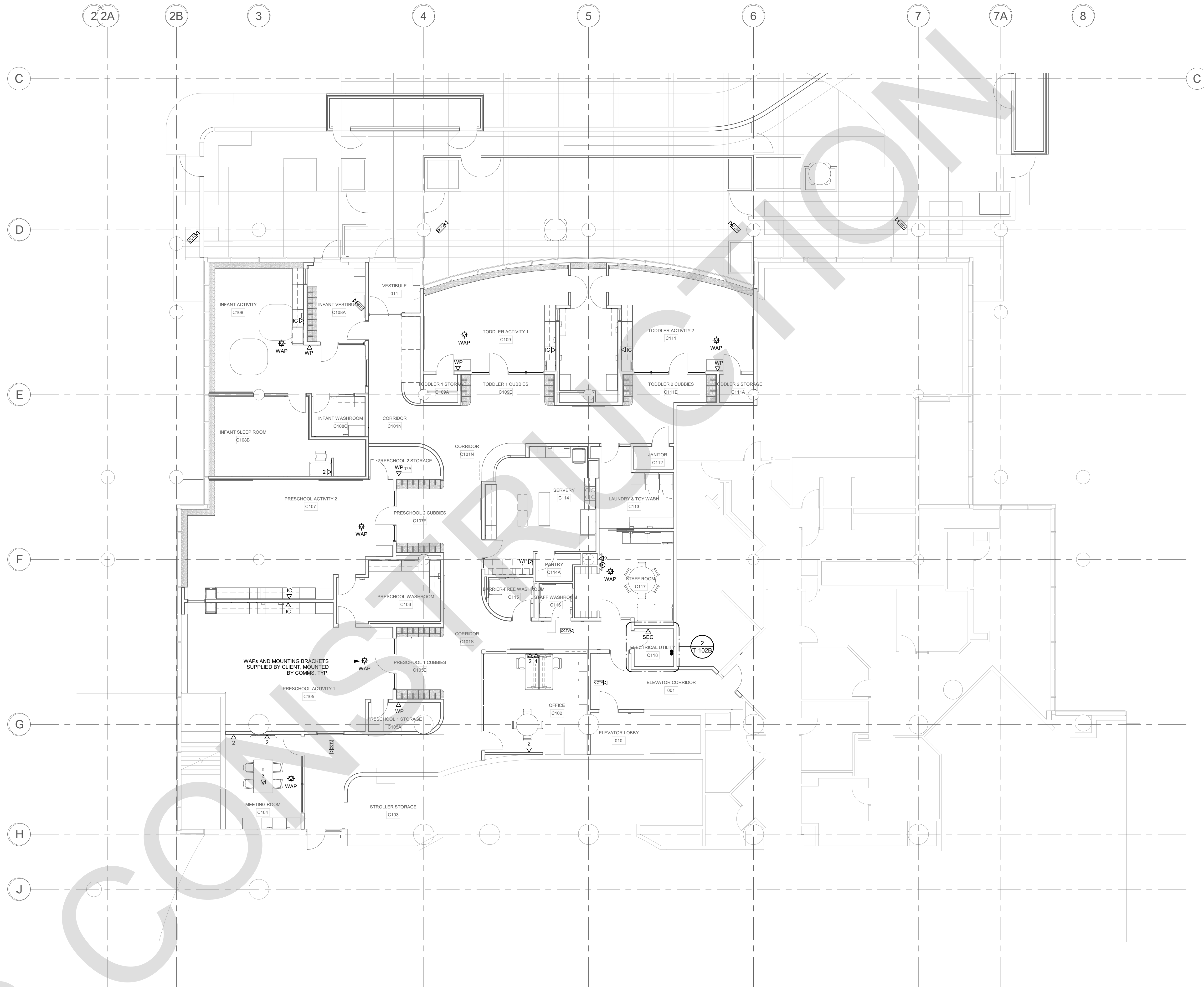
2 DAYCARE HUB ROOM LAYOUT
T-102B 1: 20

- EQUIPMENT:
- 3-PORT RACK CW 2 x 4" SINGLE-SIDED VERTICAL CABLE MANAGERS WITH DOORS (BY COMMS)
 - 12"W x 4"D WIRE-MESH BASKET TRAY (BY COMMS)
 - RADIUS DROP-OUTS / WATERFALLS (BY COMMS)
 - 1U FIBRE ENCLOSURE CW 12-STRAND OM4 OFCP TO CUT FIBRE RACK ON LOWER LEVEL (BY COMMS)
 - 24-PORT PATCH PANEL FOR VOICE CW 25-PAIR CATEGORY 3 CABLE TO SIX AT BACKBOARD (BY COMMS)
 - 16-PORT PATCH PANEL (BY COMMS)
 - 24-PORT PATCH PANEL (BY COMMS)
 - 2U FRONT MOUNT EQUIPMENT SHELF (BY COMMS)
 - 3/4" FIRE-RATED PLYWOOD BACKBOARD, TYPICAL (BY DV. 26)
 - SECONDARY BONDING BUSBAR 5/8" (BY DV. 26)

FIBRE / COPPER BACKBONE: CONTRACTOR SHALL SUPPLY AND INSTALL THE BELOW			
FIBER	ID	OM4 OFCP	CATEGORY 3 FTS
FIBRE PATCH PANEL IN ELEC UTILITY [C118]	BELL FIBRE OPTIC ROOM [B13]	12-STRAND	-
VOICE PATCH PANEL IN ELEC UTILITY [C118]	BIX ON BACKBOARD IN ELEC UTILITY [C118]	-	25-PAIR
BIX ON BACKBOARD IN ELEC UTILITY [C118]	BELL FIBRE OPTIC ROOM [B13]	-	25-PAIR



3 HUB ROOM RACK ELEVATION
T-102B 1: 10



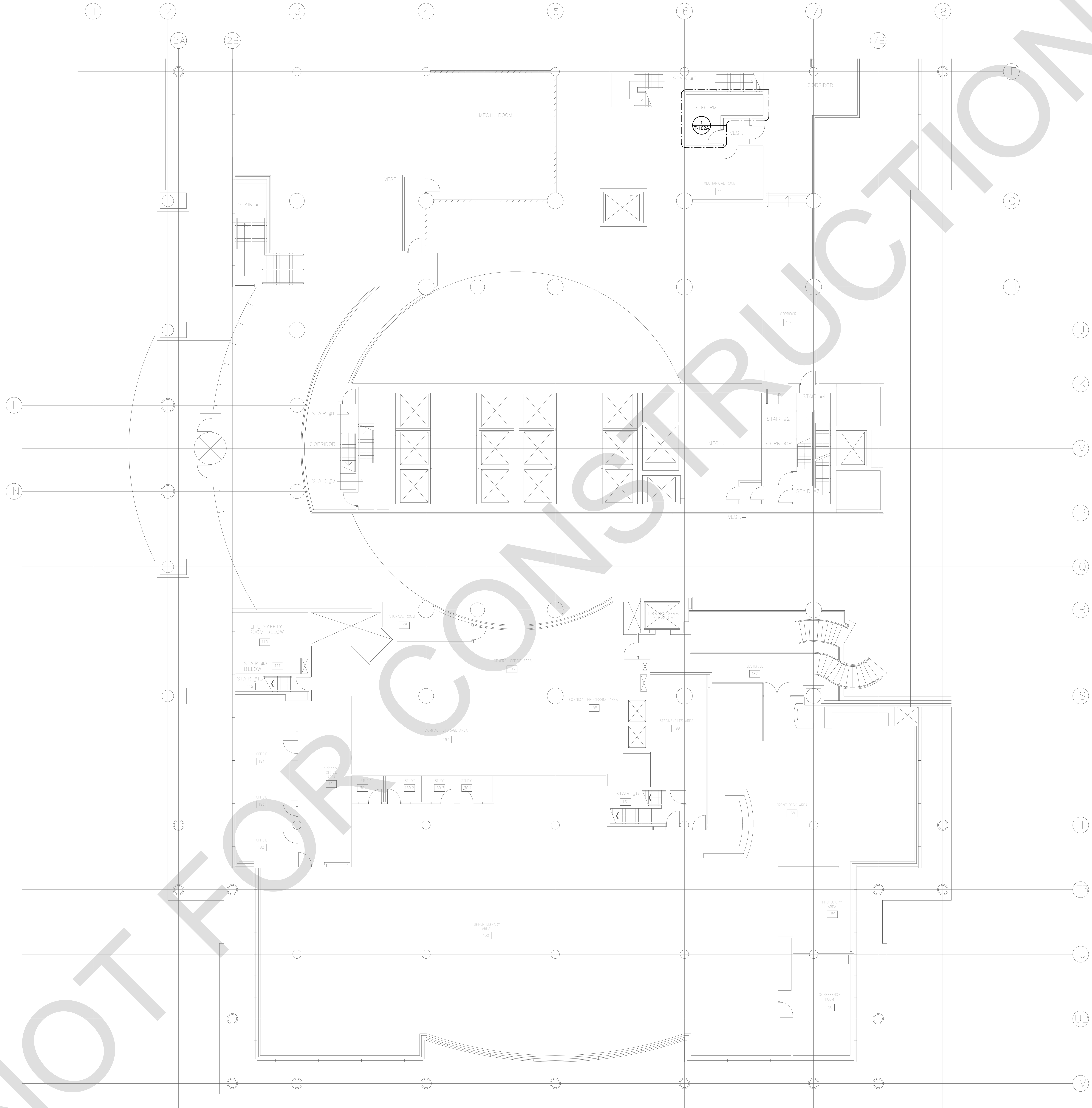
1 LEVEL 1 DAYCARE CABLING SYSTEM LAYOUT
T-102B 1: 100

No.	Date	Description	ISSUED
1	2023-03-17	ISSUED FOR 75% DESIGN REVIEW	
2	2023-03-01	ISSUED FOR 80% DESIGN REVIEW	
3	2023-07-14	ISSUED FOR 85% DESIGN REVIEW	
4	2023-08-23	ISSUED FOR APPROVAL	
5	2024-02-01	ISSUED FOR TENDER	

Contractor Must Check & Verify all Dimensions on the Job.
Do Not Scale Drawings.
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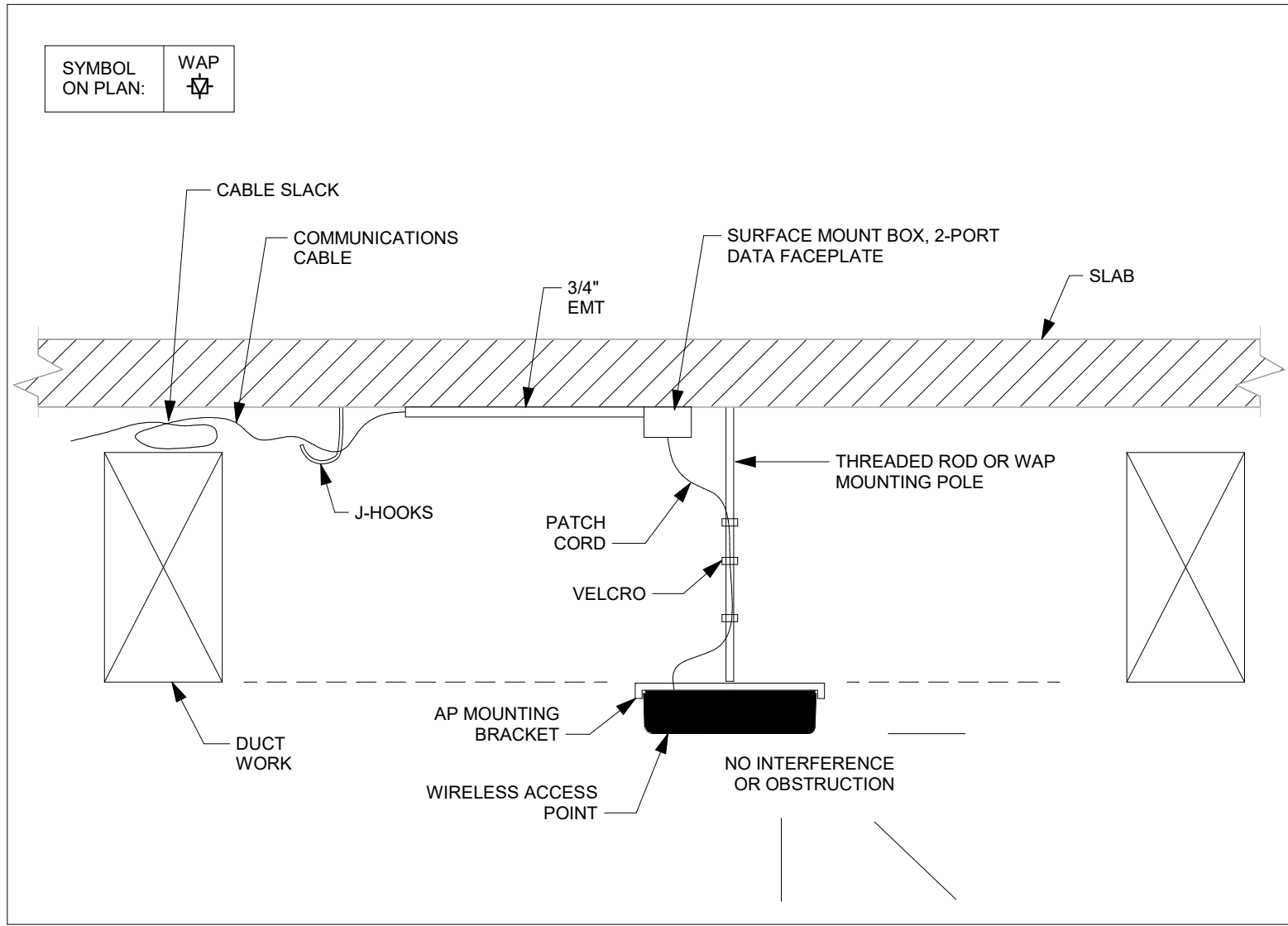
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01/02/2024 12:45:16 PM

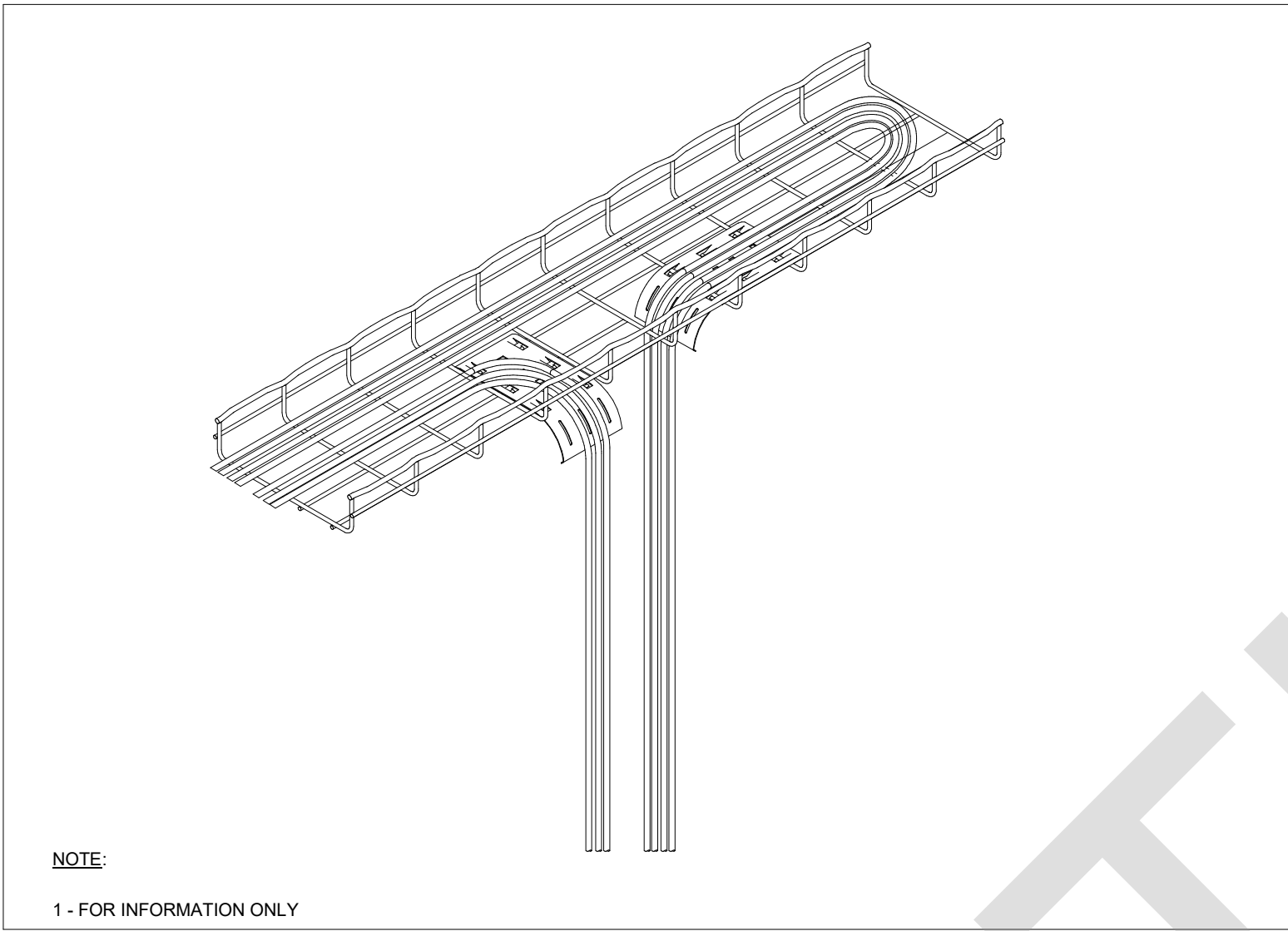


ISSUED		
No.	Date	Description
1	2023-03-17	ISSUED FOR 75% DESIGN REVIEW
2	2023-03-01	ISSUED FOR 65% DRAFT DESIGN REVIEW
3	2023-07-14	ISSUED FOR 65% DESIGN REVIEW
4	2023-08-23	ISSUED FOR APPROVAL
5	2024-02-01	ISSUED FOR TENDER

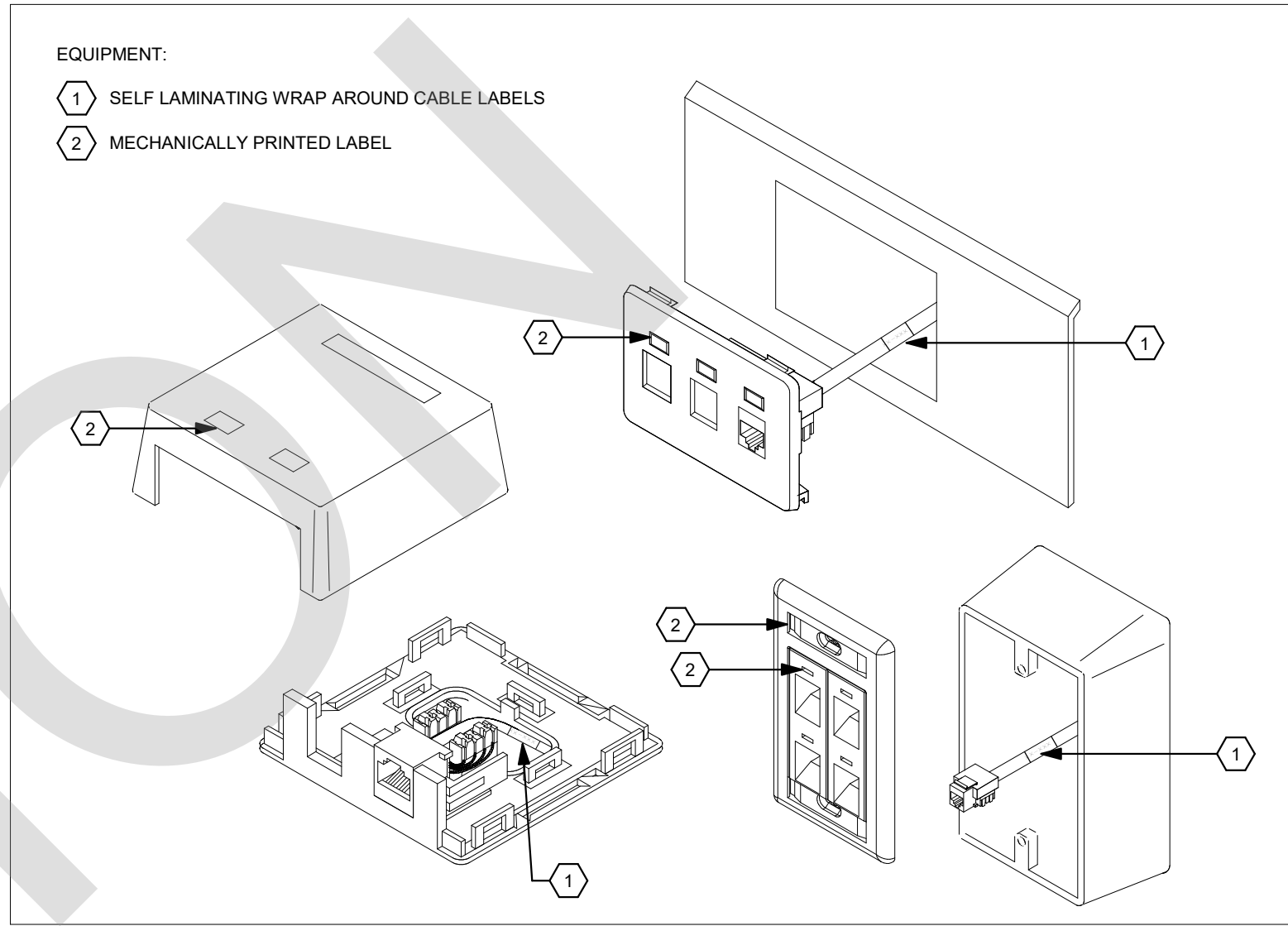
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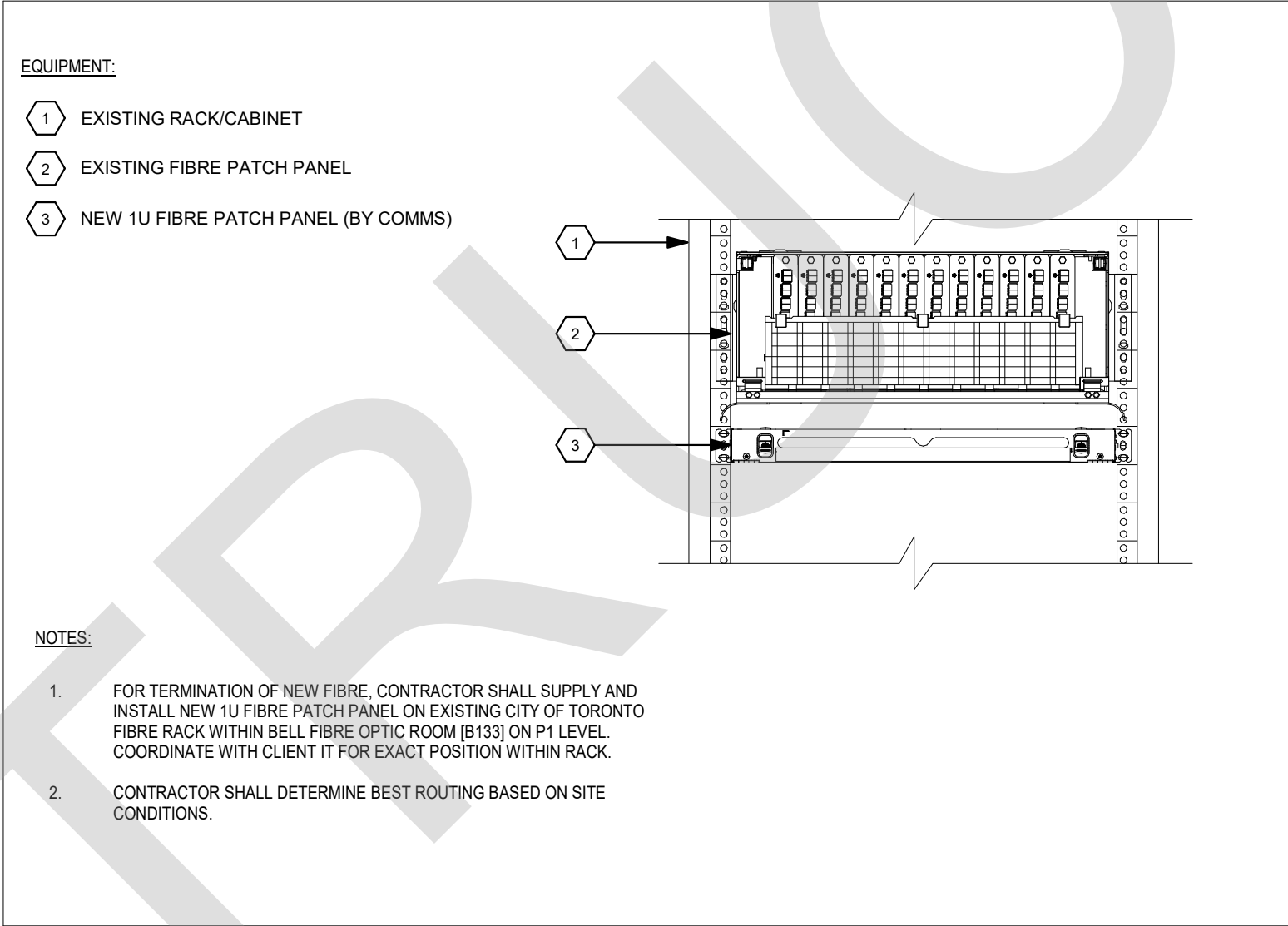
9 WAP Mounting Detail - Open Ceiling
T-301 1 : 100



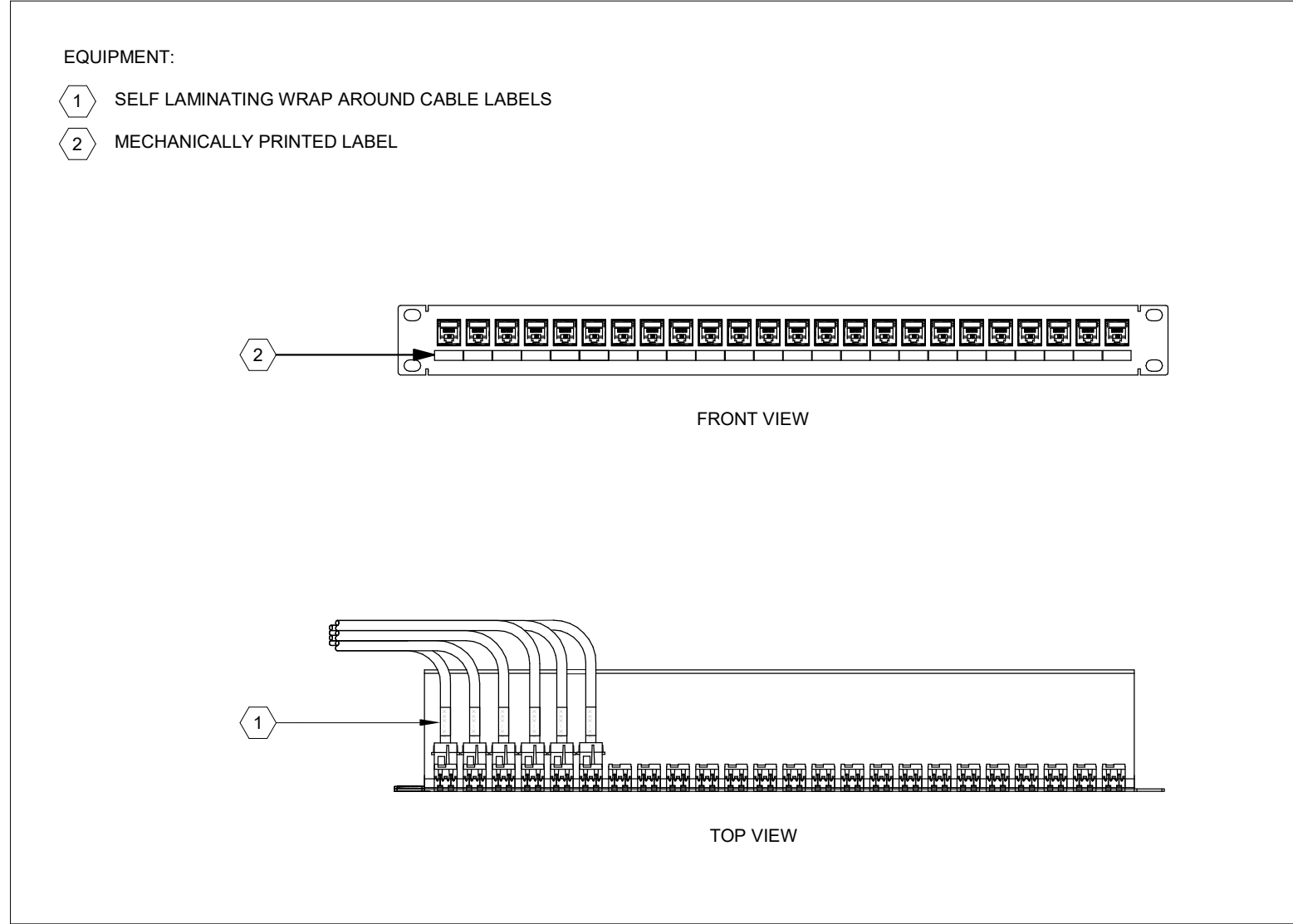
5 CABLETRAY / WATERFALLS - CABLE SLACK DETAIL
T-301 NTS



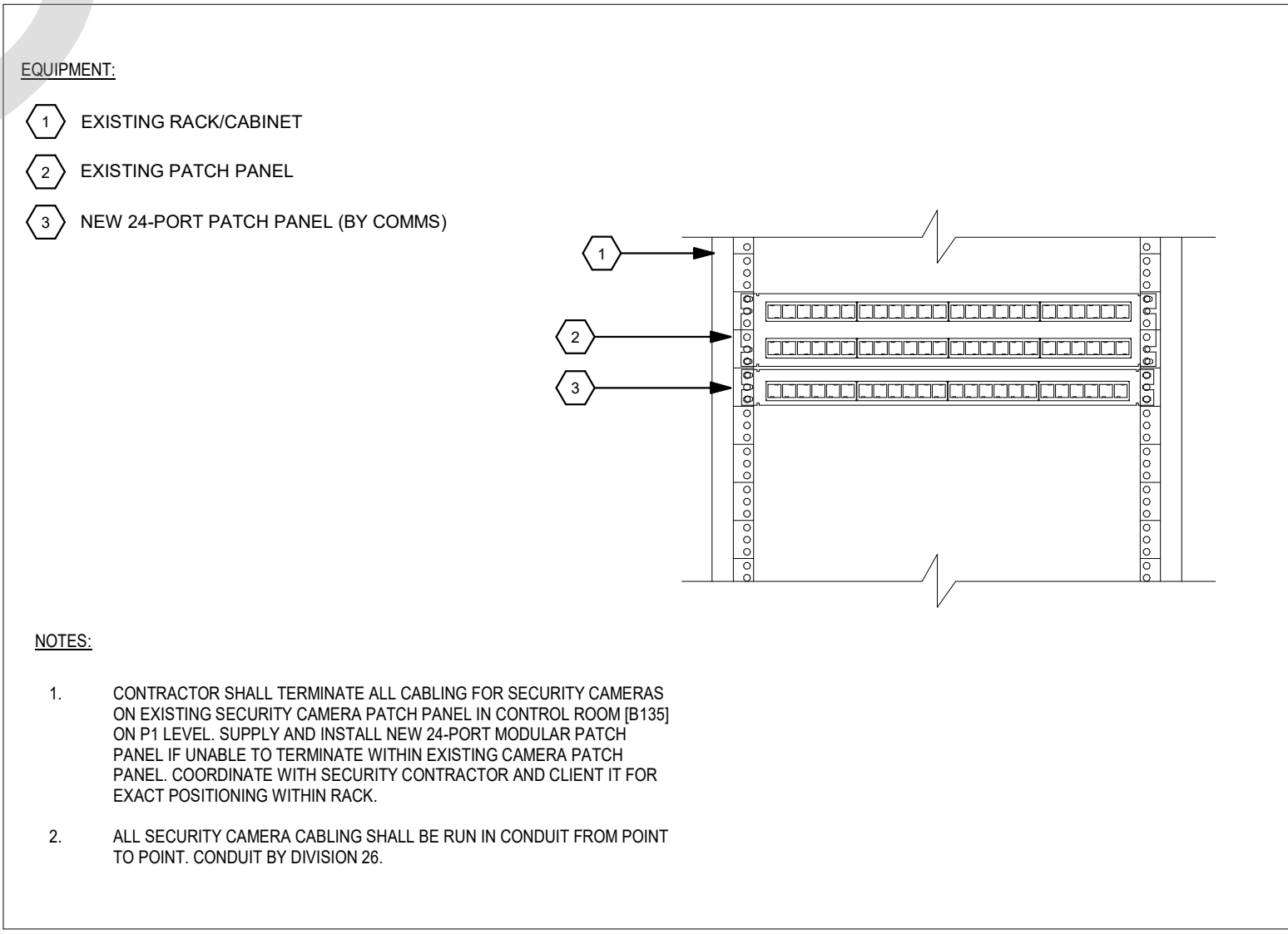
1 FACEPLATE / CABLE LABELLING (TYPICAL)
T-301 NTS



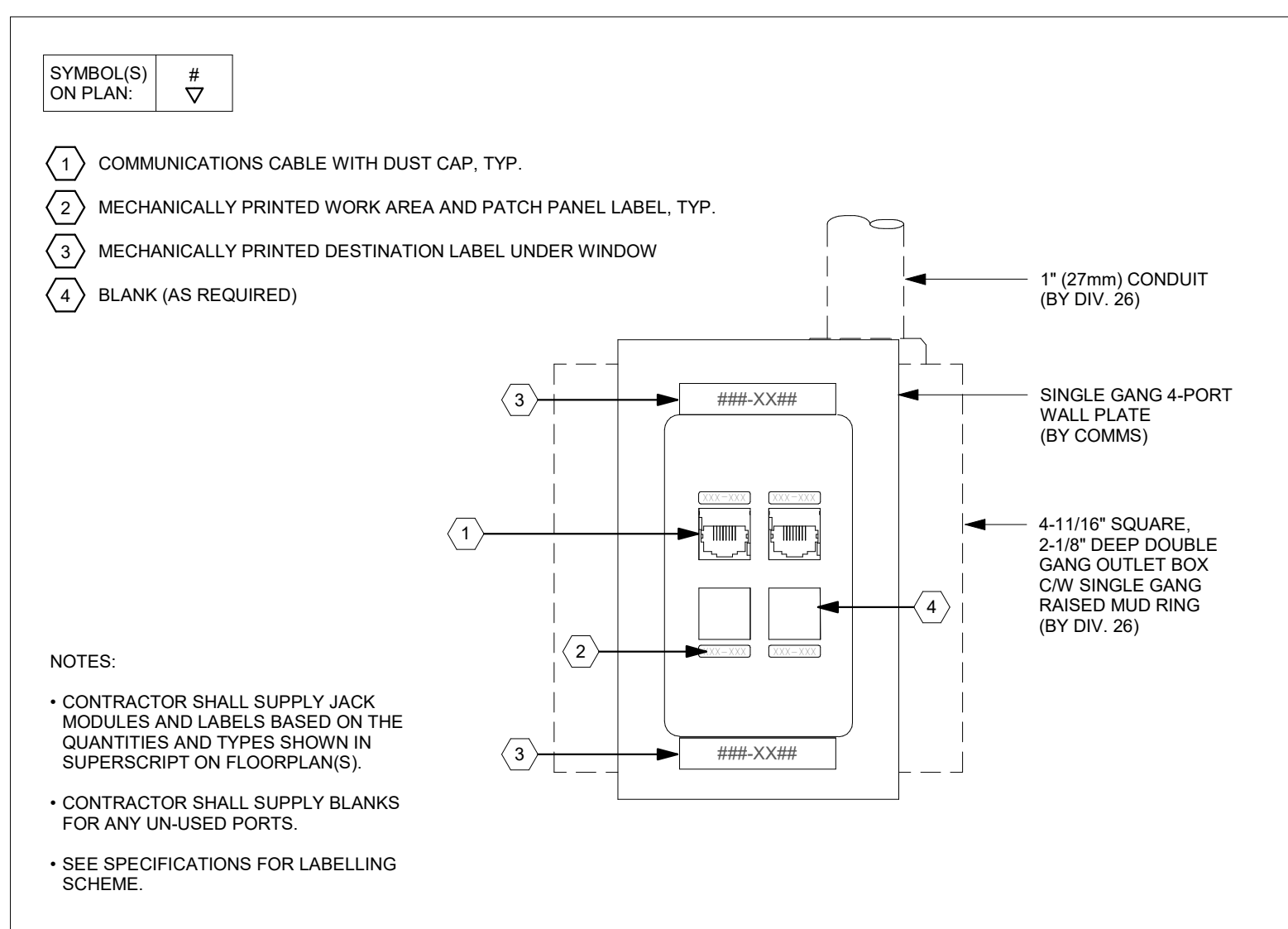
6 EXISTING RACK - FIBRE TERMINATION
T-301 NTS



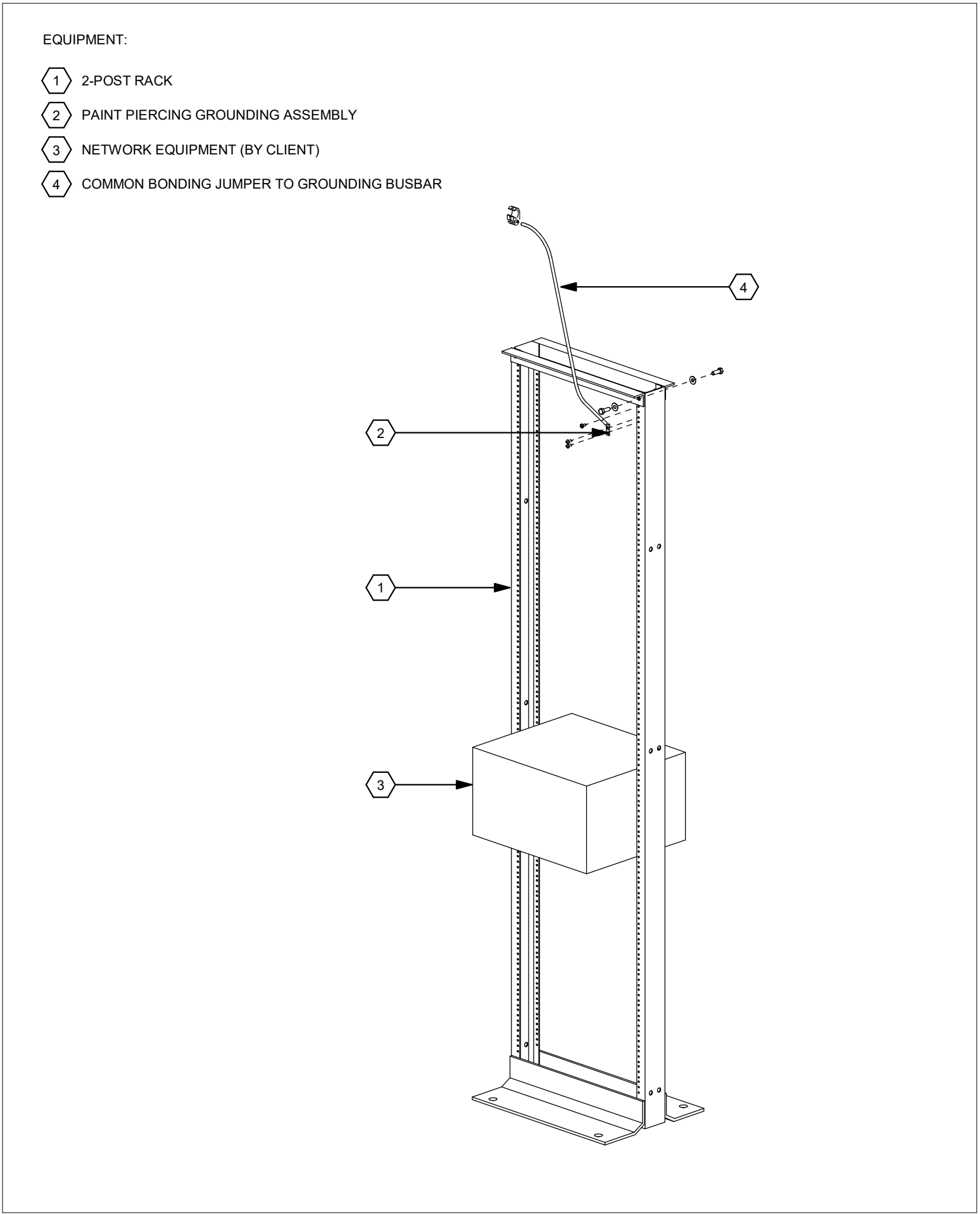
2 PATCH PANEL & CABLE LABELLING DETAIL (TYPICAL)
T-301 NTS



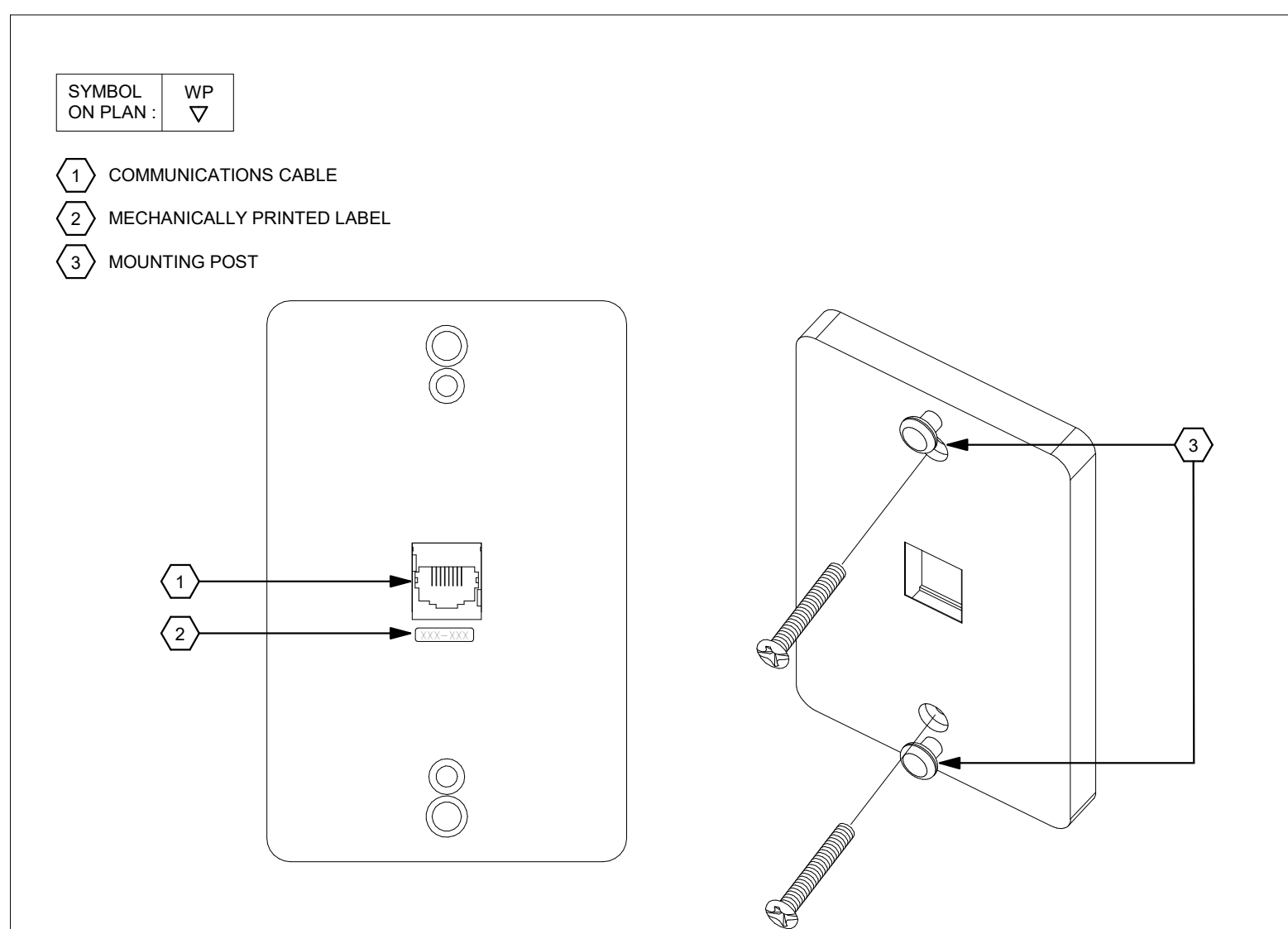
7 EXISTING RACK - SECURITY CAMERA TERMINATION
T-301 NTS



3 WALL-OUTLET DETAIL (TYPICAL)
T-301 NTS



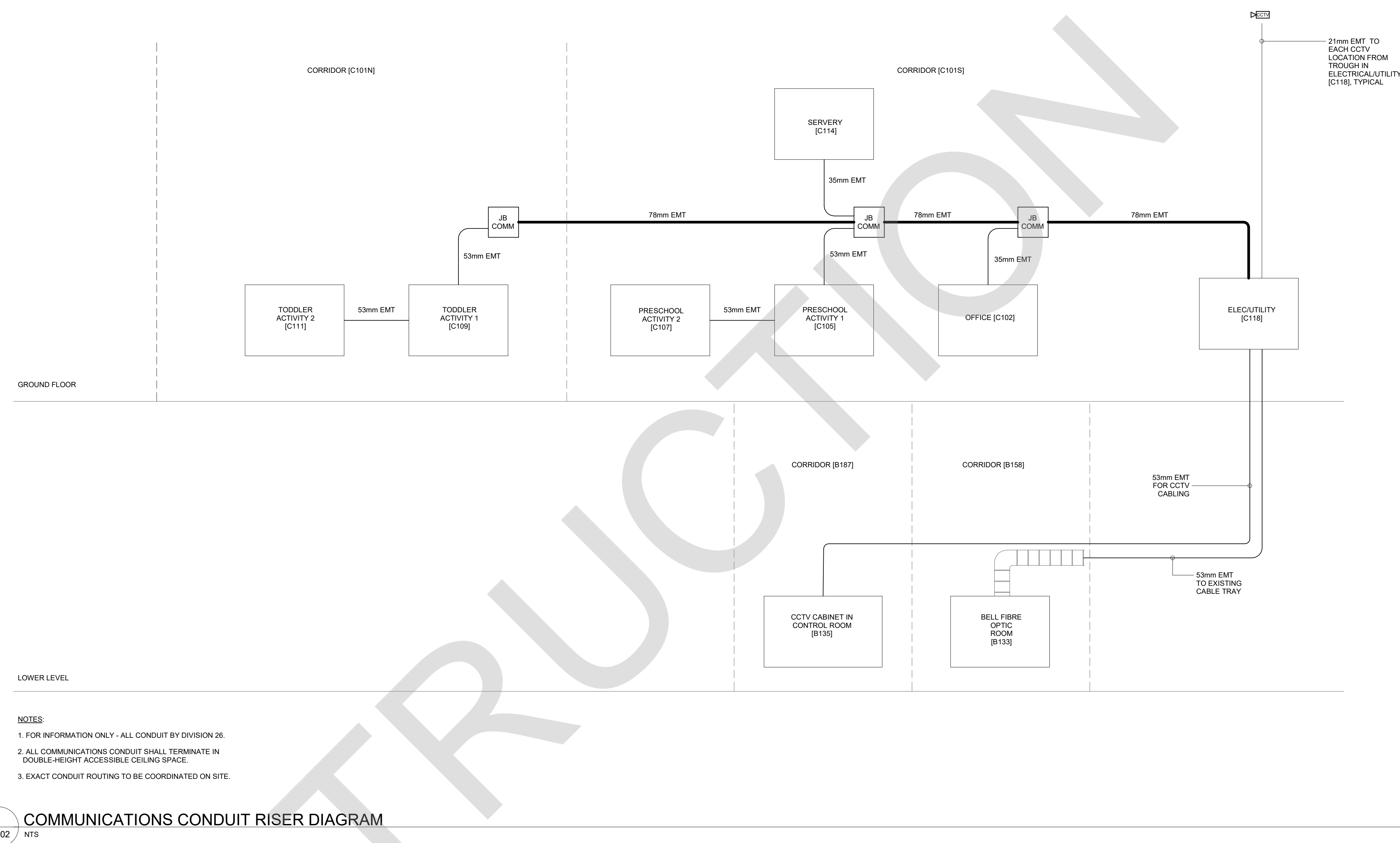
8 TYPICAL GROUNDING FOR 2-POST RACK
T-301 NTS



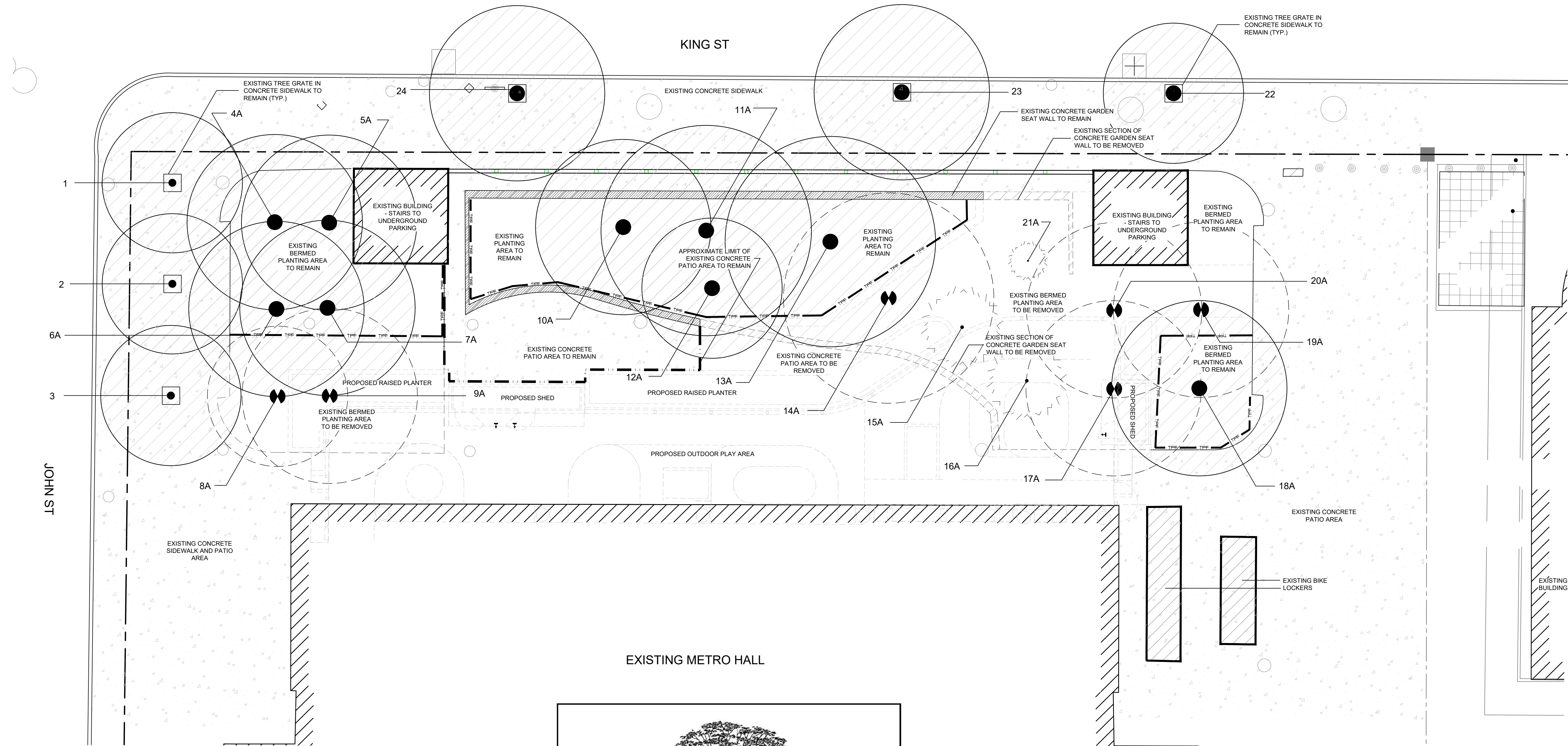
4 WALL PHONE OUTLET DETAIL
T-301 NTS

No.	Date	Description
1	2023-03-17	ISSUED FOR 75% DESIGN REVIEW
2	2023-03-01	ISSUED FOR 95% DRAFT DESIGN REVIEW
3	2023-07-14	ISSUED FOR 95% DESIGN REVIEW
4	2023-08-23	ISSUED FOR APPROVAL
5	2024-02-01	ISSUED FOR TENDER

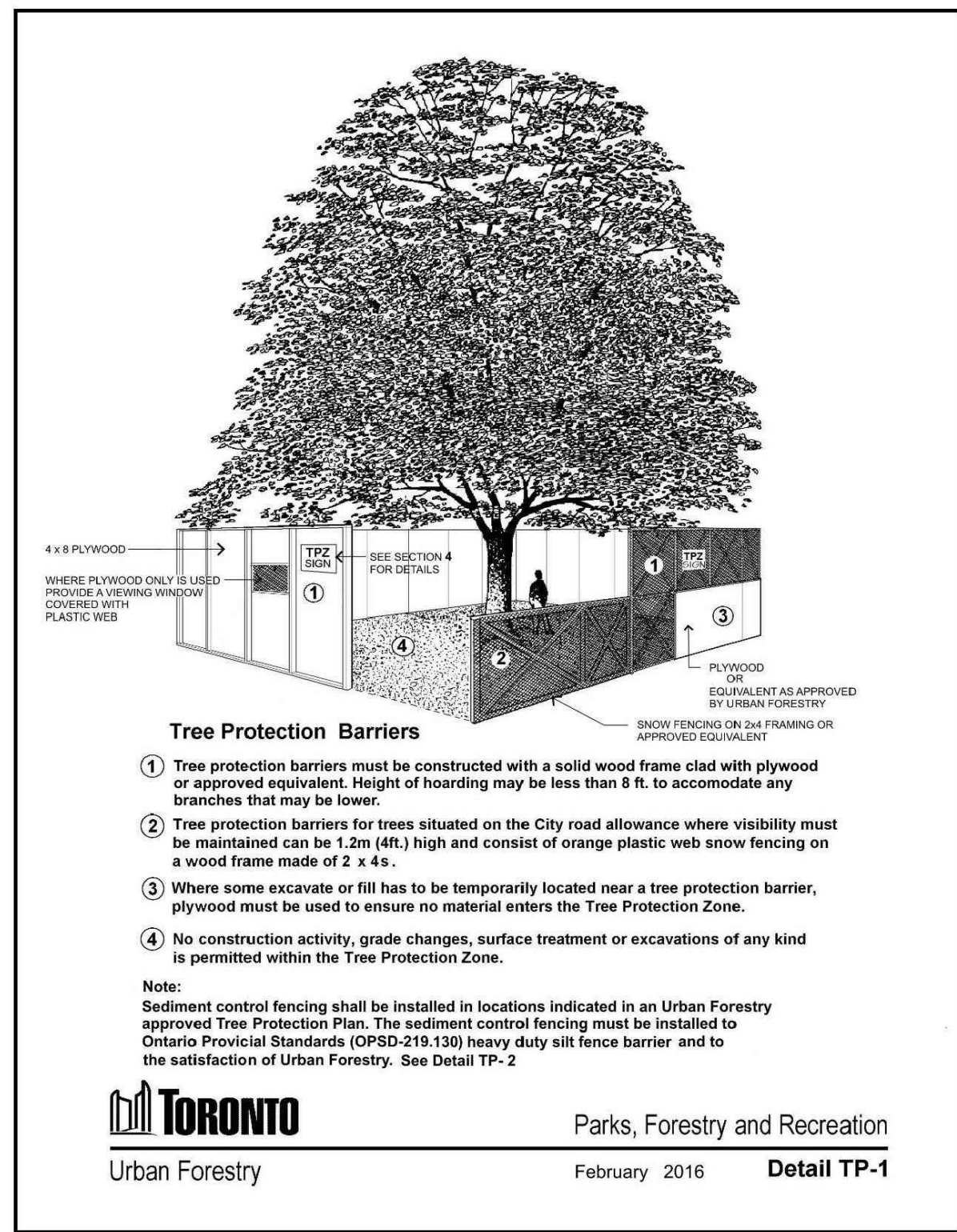
ISSUED		
No.	Date	Description
1	2023-03-17	ISSUED FOR 75% DESIGN REVIEW
2	2023-05-01	ISSUED FOR 95% DRAFT DESIGN REVIEW
3	2023-07-14	ISSUED FOR 95% DESIGN REVIEW
4	2023-08-23	ISSUED FOR APPROVAL
5	2024-02-01	ISSUED FOR TENDER



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EXISTING METRO HALL



1 CITY OF TORONTO STANDARD TREE PROTECTION FENCING DETAIL NTS

TREE PROTECTION NOTES

- PRIOR TO THE REMOVAL OF VEGETATION ON SITE AND/OR THE START OF CONSTRUCTION, A CERTIFICATION LETTER VERIFYING TREE PROTECTION FENCING HAS BEEN INSTALLED IS TO BE SUBMITTED TO THE ENGINEERING SERVICES LANDSCAPE REPRESENTATIVE IN COMPLIANCE WITH THE APPROVED PLANS.
- AS PART OF ANY TREE REMOVAL OPERATION ALL STEMS, LIMBS AND STUMPS SHOULD BE REMOVED FROM THE SITE.
- UPON COMPLETION OF ANY TREE REMOVAL OPERATIONS, TREE PROTECTION FENCING SHOULD BE INSTALLED AS ILLUSTRATED. TREE PROTECTION FENCING WILL REMAIN INSTALLED DURING THE DURATION OF CONSTRUCTION.
- ANY ROOTS DISTURBED DURING CONSTRUCTION SHOULD BE CUT CLEANLY AND BURIED IMMEDIATELY.
- NO HEAVY EQUIPMENT OR STOCKING OF MATERIAL SHALL OCCUR WITHIN THE DRIPLINES OF ANY TREES THAT ARE TO BE PRESERVED.
- TREE PROTECTION MEASURES TO BE INSPECTED BY LANDSCAPE ARCHITECT AND TOWNSHIP STAFF PRIOR TO START OF CONSTRUCTION.
- IF CONSTRUCTION OR ANY WORK OCCURS WITHIN THE TREE PRESERVATION ZONE, INSIDE THE LIMITS OF THE TREE PROTECTION FENCE, IT IS NECESSARY TO ONLY USE HAND TOOLS. NO MACHINERY WILL BE PERMITTED IN THIS ZONE. ANY WORK WITHIN THE TPZ MUST BE APPROVED BY LANDSCAPE ARCHITECT.
- ANY TREES PROPOSED TO BE PROTECTED ARE IMPACTED BY DEVELOPMENT WILL BE REPLACED WITH THE SAME SPECIES OF AN APPROVED ALTERNATE.
- NO VEGETATION REMOVALS ARE TO OCCUR ON THE SITE UNTIL THE TIME OF FINAL SITE PLAN APPROVAL.



Tree Protection Zone (TPZ)

All construction related activities, including grade alteration, excavation, soil compaction, any materials or equipment storage, disposal of liquid and vehicular traffic are NOT permitted within this TPZ.

This tree protection barrier must remain in good condition and must not be removed or altered without authorization of City of Toronto, Urban Forestry.

Concerns or inquiries regarding this TPZ can be directed to: 311 or 311@toronto.ca

LEGEND	
	EXISTING INVENTORIED TREES TO REMAIN
	EXISTING INVENTORIED TREES TO BE REMOVED
	TREE PROTECTION FENCE

2 TREE PROTECTION ZONE SIGNAGE DETAIL NTS

TREE INVENTORY LIST

ID #	Tree Species	D.B.H (cm)	Condition	Ownership	Status	Comments
1	Ginkgo biloba	27	Good	Subject site	Preserve	
2	Ginkgo biloba	28	Good	Subject site	Preserve	
3	Ginkgo biloba	31	Good	Subject site	Preserve	
4A	Syringa reticulata	16/12	Fair	Subject site	Preserve	Trunk split
5A	Syringa reticulata	16/12	Fair	Subject site	Preserve	
6A	Syringa reticulata	14/14/14	Fair	Subject site	Preserve	
7A	Syringa reticulata	10/14	Fair	Subject site	Preserve	
8A	Syringa reticulata	18/15/21	Fair	Subject site	Remove (grading within rootzone)	
9A	Syringa reticulata	18/22	Fair	Subject site	Remove (grading within rootzone)	
10A	Acer ginnata	20/16/16/18/12/15	Fair	Subject site	Preserve	
11A	Acer ginnata	16/16/18/22	Fair	Subject site	Preserve	
12A	Acer ginnata	26/15	Fair	Subject site	Preserve	
13A	Acer ginnata	16/20/20/13	Fair	Subject site	Preserve	
14A	Acer ginnata	18/22	Fair	Subject site	Remove (grading within rootzone)	
15A	Picea glauca	29	Poor	Subject site	Remove (grading within rootzone)	60% dead
16A	Picea glauca	24	Fair	Subject site	Remove (grading within rootzone)	Thin crown, 30% dead
17A	Syringa reticulata	15/10/12/12	Fair	Subject site	Remove (grading within rootzone)	
18A	Syringa reticulata	15/10/16	Fair	Subject site	Preserve	
19A	Syringa reticulata	15/10/16/15	Fair	Subject site	Remove (grading within rootzone)	
20A	Syringa reticulata	20/18	Fair	Subject site	Remove (grading within rootzone)	
21A	Picea glauca	24	Dead	Subject site	Remove (grading within rootzone)	Dead
22	Ginkgo biloba	22	Fair	Municipal property	Preserve	
23	Gleditsia triacanthos var. inermis	27	Fair	Municipal property	Preserve	
24	Gleditsia triacanthos var. inermis	28	Fair	Municipal property	Preserve	

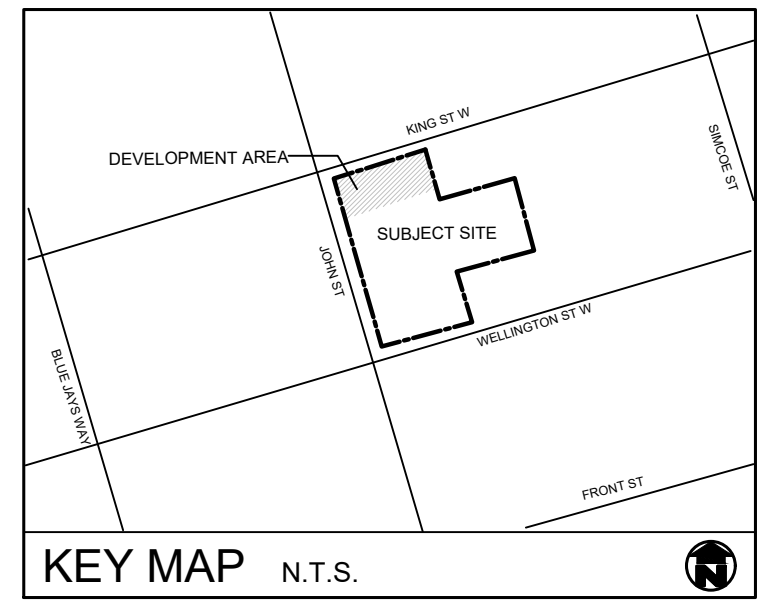
NOTES

SITE VISIT DATE: APRIL 10, 2023
TREE INVENTORY COMPLETED BY ISA CERTIFIED ARBORIST CATHERINE HODGINS #ON-2258A

TREE LOCATIONS AND DRIPLINES BASED ON TOPOGRAPHIC SURVEY PROVIDED BY SALTER PILON ARCHITECTURE, HILL DESIGN STUDIO FIELD SURVEY AND CITY OF TORONTO AERIAL PHOTOGRAPHY.

A DENOTES APPROXIMATE LOCATION OF TREE BASED ON HILL DESIGN STUDIO FIELD SURVEY & AERIAL PHOTOGRAPHY.

ALL VEGETATION ON SITE AND WITHIN 6m OF PROPERTY BOUNDARY HAVE BEEN IDENTIFIED.



GENERAL NOTES

- ALL WORKMANSHIP WILL BE TO THE STANDARDS OF LANDSCAPE ONTARIO.
- CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES.
- SITE PLAN INFORMATION AS PER DIAMOND SCHMITT ARCHITECTS.
- EXISTING CONDITIONS PROVIDED BY SALTER PILON ARCHITECTS INC.



no.	date	description	by
1.	Aug 23 23	Issued for approval	CMH
2.	Oct 20 23	Re-issued for Tree Declaration	CMH
3.	Feb. 14 24	Revised as per site plan	CMH

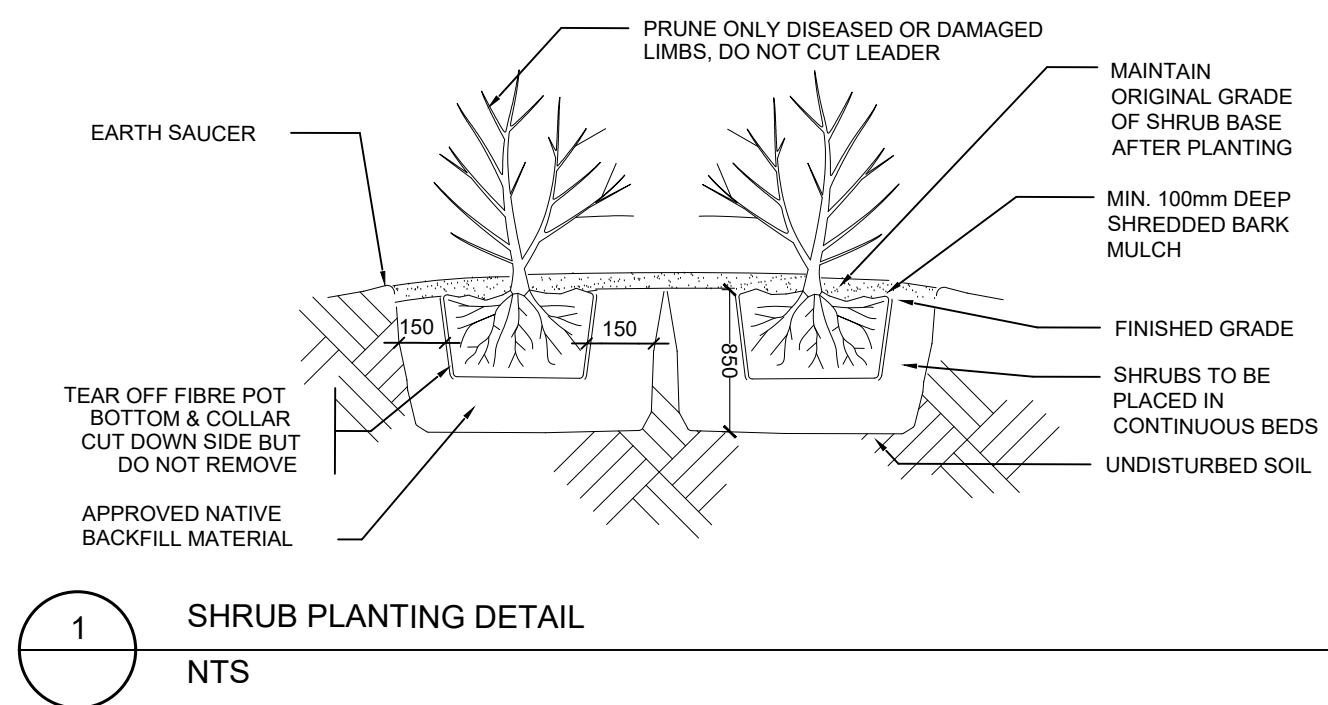
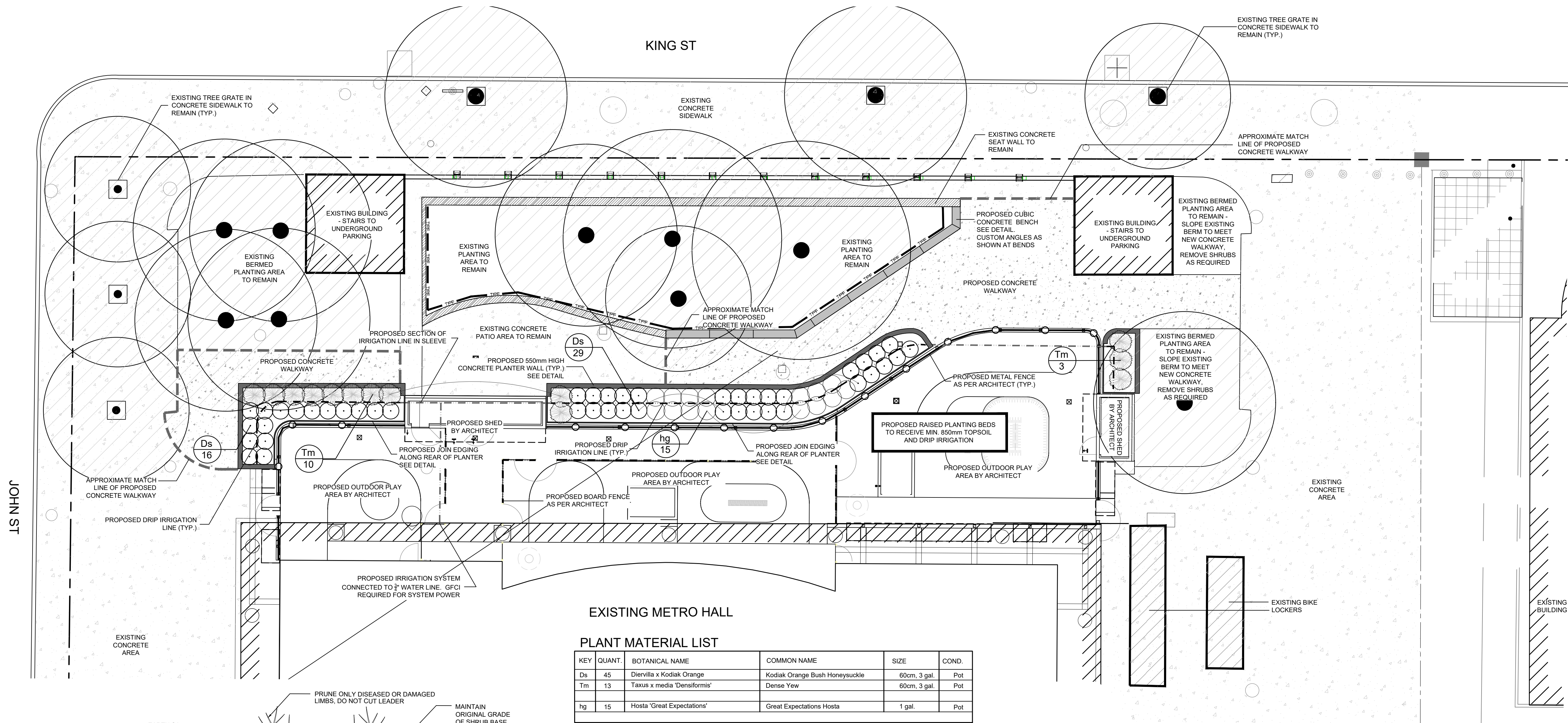
METRO HALL
55 John Street
Toronto, ON

Tree Management Plan



PROJECT NO: 2023-15	DRAWN BY: CMH
SCALE: 1:125	DESIGNED BY: CMH
SHEET:	APPROVED BY: AWH
	PLOT DATE: FEB. 14, 2024

L1

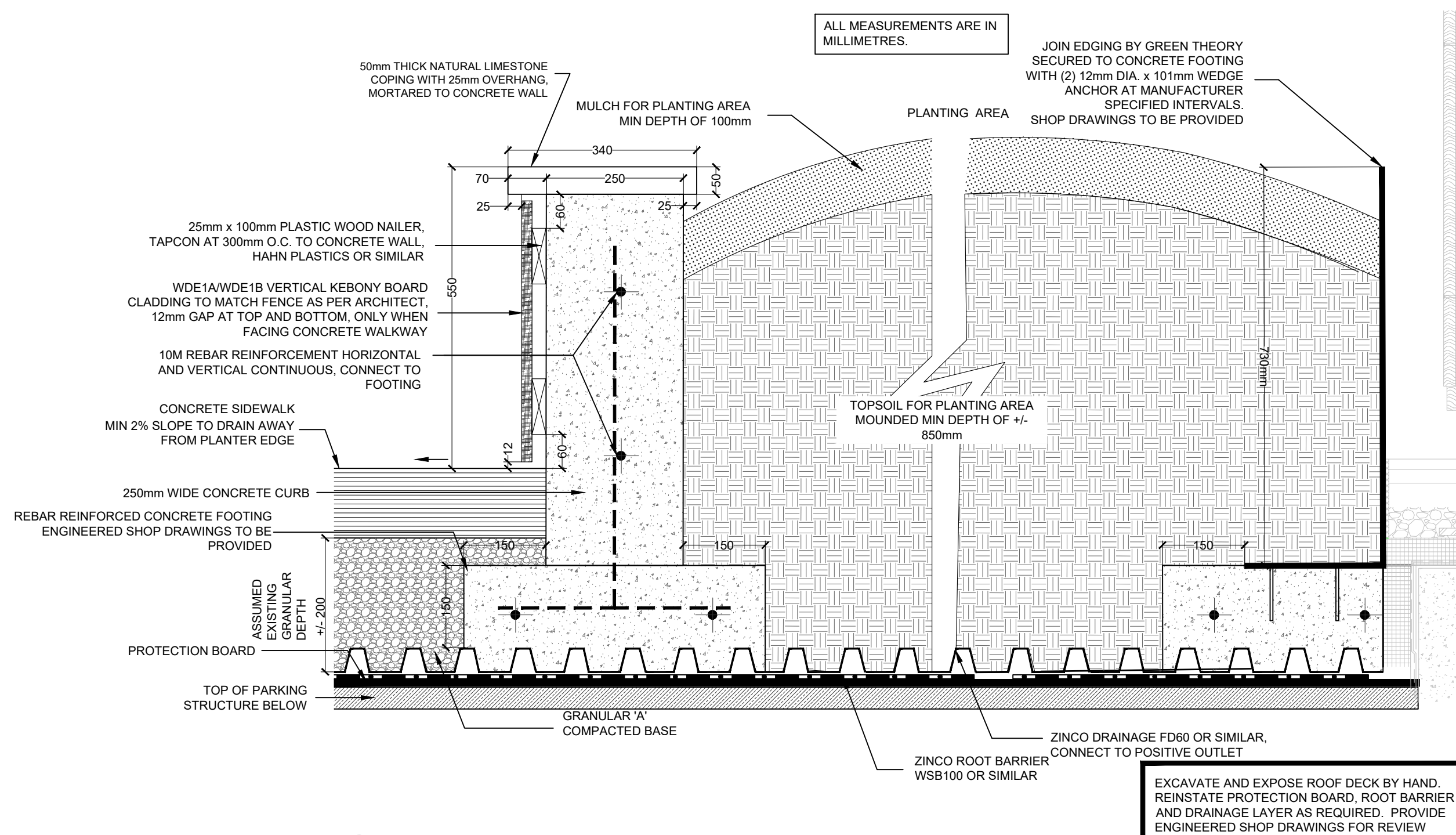


CUBIC BENCH BY ED'S CONCRETE (OR APPROVED EQUAL)
T 519-271-6590
F 612-331-2731
WWW.EDSCONCRETE.CA
INFO@EDSCONCRETE.COM

SPECIFICATIONS:
MODEL: CU204820 AND CU209420
FINISH: SANDBLAST
COLOUR: GREY
INSTALLATION: GRANULAR BASE AS PER MANUFACTURER'S INSTRUCTIONS



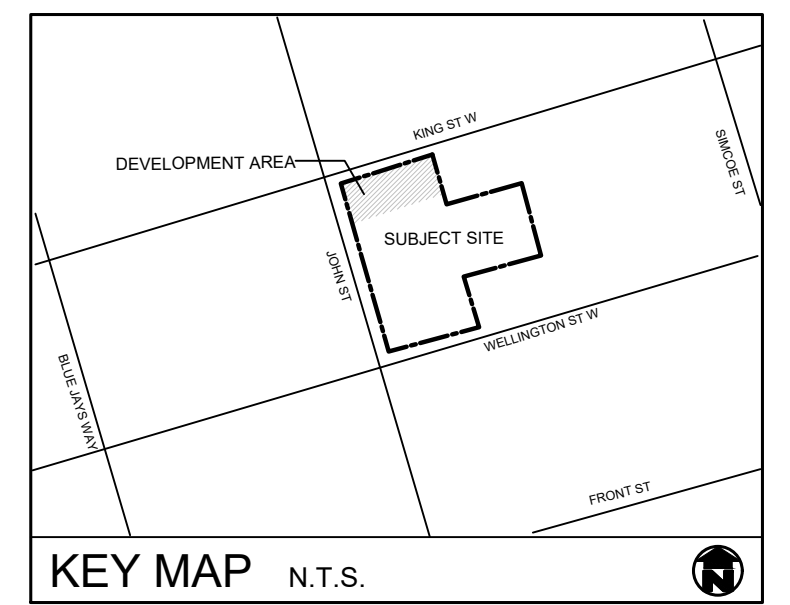
2 CUBIC BENCH DETAIL
NTS



TYPICAL JOIN EDGING BY GREEN THEORY DESIGN (OR APPROVED EQUAL)
T 1-844-747-9283
WWW.GREENTHEORYDESIGN.COM
SALES@GREENTHEORYDESIGN.COM

SPECIFICATIONS:
MODEL: JOIN EDGING 500mm HIGH
FINISH: ALUMINUM
COLOUR: METALLIC SILVER
INSTALLATION: AS PER MANUFACTURER'S INSTRUCTIONS
SHOP DRAWINGS TO BE PROVIDED FOR OWNERS REVIEW
COLOUR SAMPLES TO BE PROVIDED PRIOR TO CONSTRUCTION

PROPOSED WOOD FENCE AND POST ASSEMBLY AS PER ARCHITECT REFER TO ARCHITECTURAL PLANS FOR DETAILS



GENERAL NOTES

- ALL WORKMANSHIP WILL BE TO THE STANDARDS OF LANDSCAPE ONTARIO.
- ALL PLANT MATERIAL TO BE NO.1 GRADE NURSERY GROWN IN ACCORDANCE WITH THE CANADIAN STANDARDS FOR NURSERY STOCK, 9TH EDITION, 2017, BY THE CANADIAN NURSERY TRADES ASSOCIATION.
- BACKFILL WILL CONSIST OF SOIL NATIVE TO THE SITE OR GENERAL SOIL TYPE/CLASS NATIVE TO THE SITE. TOPSOIL TO BE TESTED FOR NUTRIENT VALUE, AND AMENDED FOR OPTIMAL GROWTH AS PER THE RECOMMENDATIONS OF THE SOIL TEST.
- CONTRACTOR SHALL MAINTAIN ALL LANDSCAPE AREAS UNTIL OWNER'S ACCEPTANCE OF PROJECT.
- CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES.
- PLANTING MAY BE ADJUSTED TO SUIT LOCATIONS OF SITE UTILITY STRUCTURES/SERVICES.
- ALL MATERIALS MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- SPREAD MULCH TO A MINIMUM OF 100mm COMPACTED DEPTH ON ALL TREE PITS AND PLANTING BEDS.
- CHECK AND VERIFY ALL DIMENSIONS AND QUANTITIES PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES ARE TO BE REPORTED IN WRITING TO THE LANDSCAPE ARCHITECT. QUANTITIES NOTED WITHIN THE PLAN SUPERCEDE THOSE IN THE PLANT LIST. ANY SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT.
- SOD AS MARKED WITH NURSERY SOD ON A MINIMUM OF 100mm OF CLEAN TOPSOIL. FINE GRADE AND SOD ON GRADE AREAS TO BE REPORTED IN WRITING TO THE LANDSCAPE ARCHITECT. QUANTITIES NOTED WITHIN THE PLAN SUPERCEDE THOSE IN THE PLANT LIST. ANY SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT.
- FINAL INSPECTION AND ACCEPTANCE OF PLANTING WORK SHALL COINCIDE WITH THE FINAL INSPECTION AND ACCEPTANCE OF ALL WORK INCLUDED IN THE CONTRACT.
- ALL SEEDED SLOPES 3:1 AND GREATER TO RECEIVE EROSION CONTROL MATTING. PIN SOD ON ALL SLOPES OF 3:1 OR GREATER.
- SUBMIT A WRITTEN GUARANTEE TO THE EFFECT THAT ALL PLANTS ACCEPTED DURING THE PERIOD OF JANUARY 1st TO JULY 15th SHALL BE GUARANTEED UNTIL JULY 15th THE FOLLOWING YEAR. PLANTS ACCEPTED DURING THE PERIOD OF JULY 15th TO DECEMBER 31st SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF ACCEPTANCE. THE GUARANTEE PERIODS LISTED ABOVE SHALL APPLY TO ALL "NURSERY GROWN" PLANTS.
- AT THE TIME OF FINAL INSPECTION ALL PLANTS SHALL BE IN A HEALTHY, VIGOROUS GROWING CONDITION, PLANTED IN FULL ACCORDANCE WITH DRAWINGS AND CONDITIONS.
- SITE PLAN INFORMATION AS PER DIAMOND SCHMITT ARCHITECTS.
- THIS PLAN HAS BEEN CREATED IN THE ABSENCE OF SITE GRADING AND SERVICING PLANS.
- SITE LIGHTING BY OTHERS



no.	date	description	by
1.	Aug 23 23	Issued for approval	CMH
2.	Feb. 14 24	Revised as per site plan	CMH

METRO HALL
55 John Street
Toronto, ON

King Street Landscape Plan



PROJECT NO.: 2023-15 DRAWN BY: CMH
SCALE: 1:125 DESIGNED BY: CMH
SHEET: L2 APPROVED BY: AWH
PLOT DATE: FEB. 14, 2024