

# Barrier Free Upgrades Our Lady of Fatima Catholic School

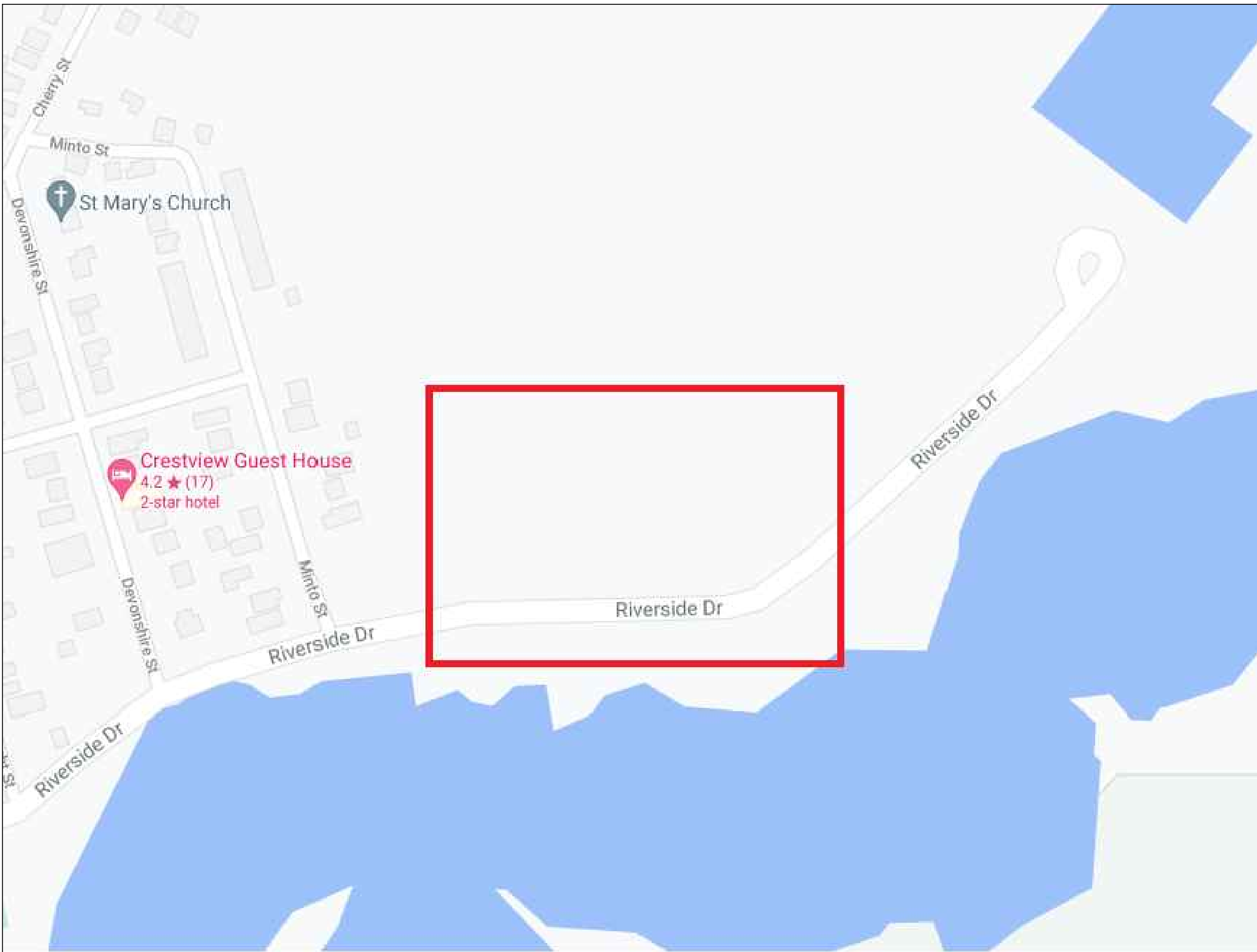
14 Strathcona St. POM 1k0, Chapleau, Ontario  
for the  
Huron-Superior Catholic District School Board

## Volume 1 - Drawings Architectural, Structural, Mechanical and Electrical

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Volume 1 - Drawings - Architectural, Structural, Mechanical and Electrical  
Volume 2 - Specification - Division 00 - 33

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Prime Consultant  
Architecture, Mechanical and Electrical Engineering

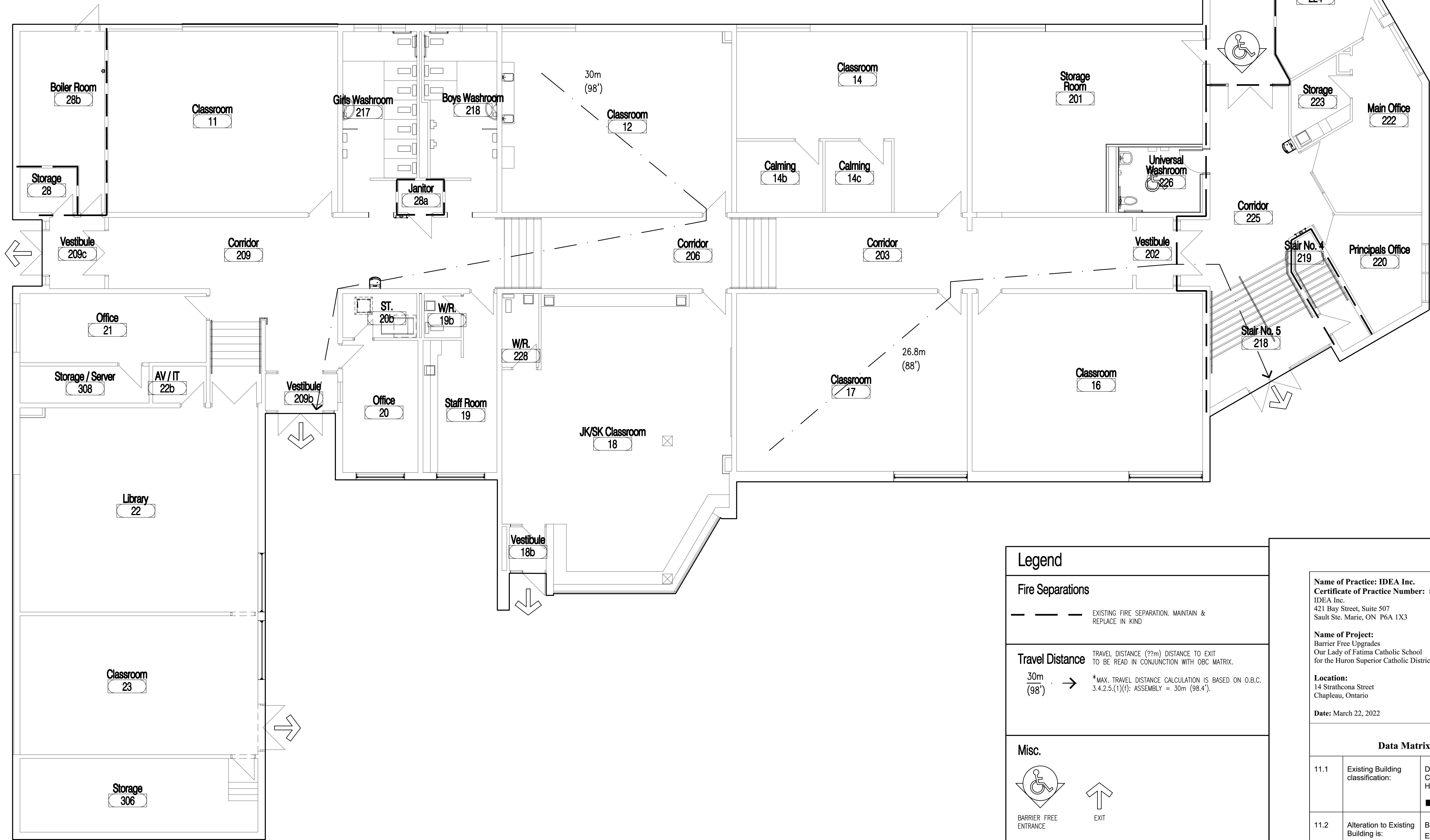
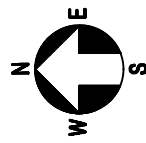
**IDEA**  
INTEGRATED DESIGN  
ENGINEERING + ARCHITECTURE

IDEA Inc.  
421 Bay Street, Suite 507  
Sault Ste. Marie, Ontario  
P6A 1X3  
(705) 949-5291

Structural

**A2S**  
consulting engineers

A2S Consulting Engineers  
289 Cedar Street, Suite 201  
Sudbury, Ontario  
P3B 1M8  
(705) 222-0420



Legend

Fire Separations

--- EXISTING FIRE SEPARATION. MAINTAIN & REPLACE IN KIND

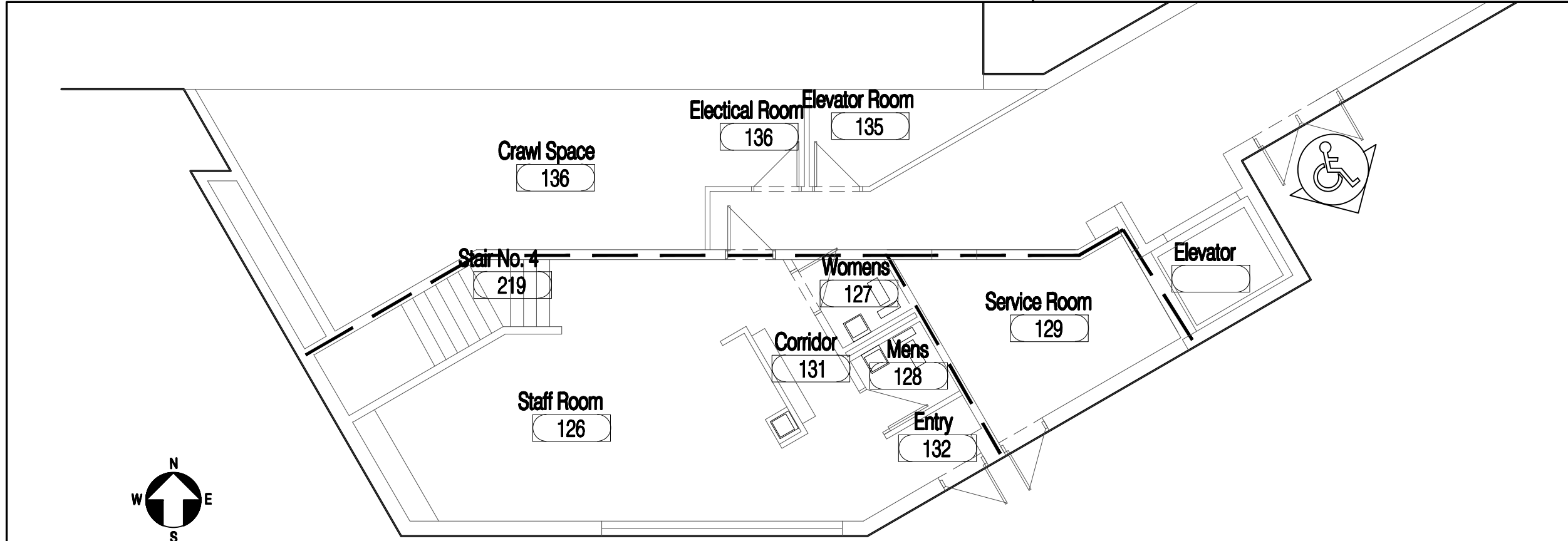
Travel Distance

30m (98') → \*MAX. TRAVEL DISTANCE CALCULATION IS BASED ON O.B.C. 3.4.2.5.(1)(i): ASSEMBLY = 30m (98.4').

Misc.

BARRIER FREE ENTRANCE

EXIT

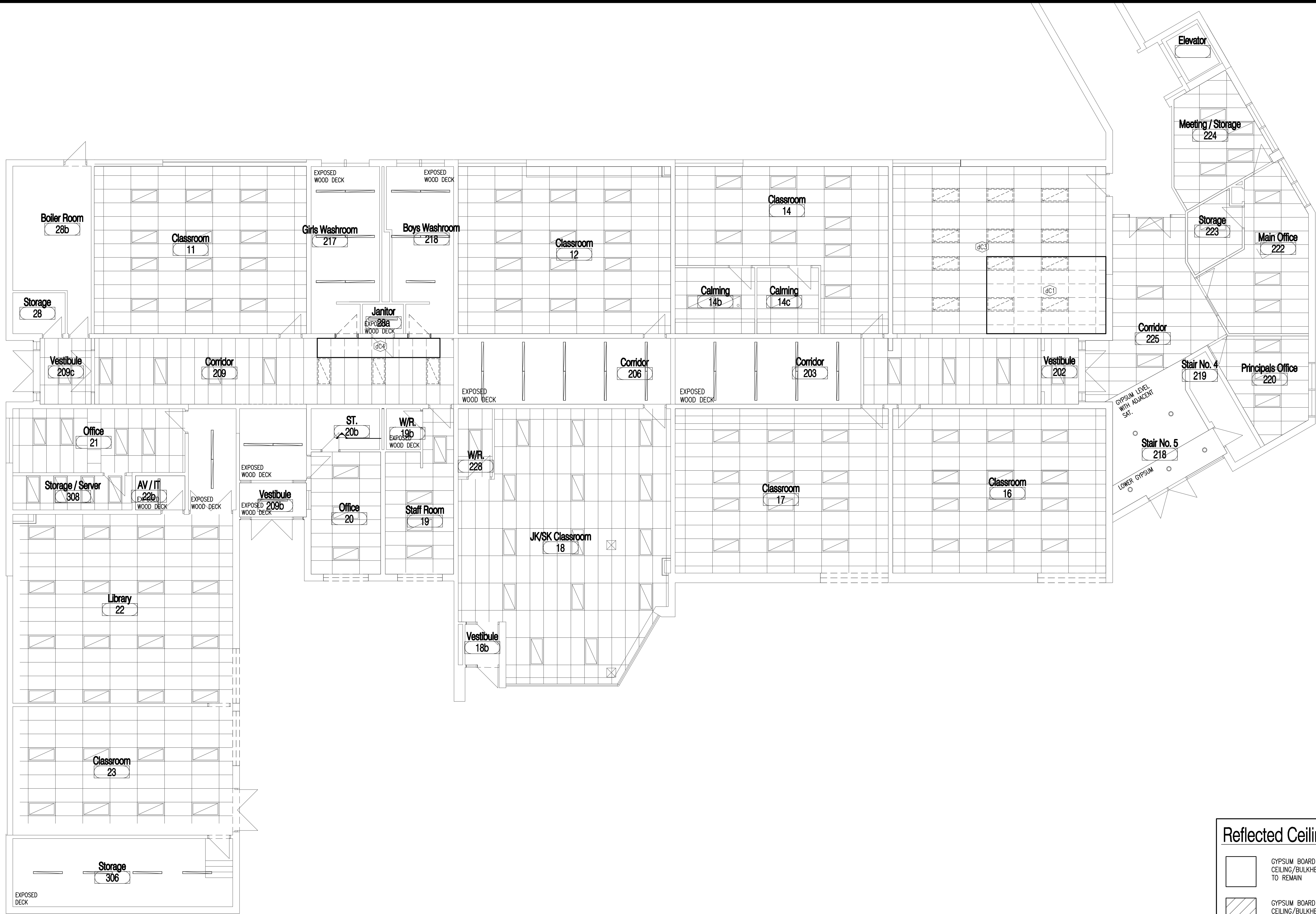
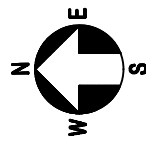


Level 1 - Life Safety Plan  
Scale 1/8"=1'-0"

Name of Practice: IDEA Inc. Certificate of Practice Number: 5851 IDEA Inc. 421 Bay Street, Suite 507 Sault Ste. Marie, ON P6A 1X3			
Name of Project: Barrier Free Upgrades Our Lady of Fatima Catholic School for the Huron Superior Catholic District School Board			
Location: 14 Strathcona Street Chapleau, Ontario			
Date: March 22, 2022			
Ontario Building Code Data Matrix, Part 11 – Renovation of Existing Building			Building Code Reference
11.1	Existing Building classification:	Describe Existing Use: <u>Elementary School</u> Construction Index: _____ Hazard Index: _____  ■ Not Applicable (no change of major occupancy)	11.2.1 T 11.2.1.1A T 11.2.1.1B to N
11.2	Alteration to Existing Building is:	Basic Renovation <input checked="" type="checkbox"/> Extensive Renovation <input type="checkbox"/>	11.3.3.1 11.3.3.2
11.3	Reduction in Performance Level:	Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage-system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.4.2 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5
11.4	Compensating Construction:	Structural: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (explain) Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) Change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) Plumbing: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (explain) New plumbing fixtures installed Sewage system: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (explain) New plumbing fixtures installed	11.4.3 11.4.3.2 11.4.3.3 11.4.3.4 11.4.3.5 11.4.3.6
11.5	Compliance Alternatives Proposed:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (give number[s])	11.5.1







### Reflected Ceiling Plan Legend - Existing and Removals

	GYPSUM BOARD CEILING/BULKHEAD TO REMAIN		MECHANICAL DIFFUSERS/GRILES EXISTING TO REMAIN		ELECTRICAL LIGHT FIXTURES EXISTING TO REMAIN
	GYPSUM BOARD CEILING/BULKHEAD TO BE REMOVED		MECHANICAL DIFFUSERS/GRILES EXISTING TO BE REMOVED		ELECTRICAL LIGHT FIXTURES EXISTING TO BE REMOVED
	SUSPENDED ACOUSTIC TILE CEILING TO REMAIN				
	SUSPENDED ACOUSTIC TILE CEILING TO BE REMOVED				

### General Notes:

COORDINATE CEILING REMOVALS WITH NEW CONSTRUCTION. REFER TO CEILING PLAN NEW CONSTRUCTION FOR HEIGHT ABOVE FINISHED FLOOR OF EXISTING CEILINGS.

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR REMOVALS, RECONFIGURATIONS AND NEW CONSTRUCTION OF RESPECTIVE EQUIPMENT

PROVIDE SAWCUT DEMOLITIONS IN EXISTING WALL CONSTRUCTION AS REQUIRED TO ROUGH IN AND INSTALL MECHANICAL EQUIPMENT. REFER TO HVAC.

PROVIDE SAWCUT DEMOLITIONS IN EXISTING WALL CONSTRUCTION AS REQUIRED TO ACHIEVE RECESSED ROUGH INS. REFER TO ELECTRICAL.

### Demolition Notes - Ceiling

- Plan**
- (dC1)** EXISTING SUSPENDED ACOUSTIC CEILING. SELECTIVE REMOVAL OF EXISTING SUSPENDED ACOUSTIC TILE CEILING AS NEEDED TO COMPLETE ARCHITECTURAL, MECHANICAL AND ELECTRICAL WORK. RETAIN TILES AND STORE IN A CLEAN AND DRY ENVIRONMENT TO INFILL DURING NEW CONSTRUCTION. PREPARE FOR NEW CONSTRUCTION.
  - (dC3)** REMOVE EXISTING EXPOSED MECHANICAL AND ELECTRICAL DEVICES AS NOTED. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS. RETAIN FIXTURES FOR REUSE.
  - (dC4)** SELECTIVE REMOVAL AND REINSTALLATION OF EXISTING T-BAR CEILING FOR THE INSTALLATION OF NEW BULKHEAD. REPLACE BROKEN TILES WITH NEW.



Roof Types					<b>Roof Type</b> ROOF, WOOD MILL DECK SKIPPLAN 60 MECHANICAL FASTENED MEMBRANE +/- 4\"/>
					<b>Wall Type</b> WINDOW THERMALLY BROKEN ALUMINUM WINDOW SYSTEM (VISION PANELS, GLASS SPANDRELS AND METAL SPANDREL PANELS, AND STRUCTURAL SILICONE GLAZING FRAMING - SEE SECTIONS) BASED ON ALUMINOR SHADOWNLINE 970
					<b>Partition Type</b> 1/2\"/>
Wall Types					<b>Wall Type</b> WINDOW THERMALLY BROKEN ALUMINUM WINDOW SYSTEM (VISION PANELS, GLASS SPANDRELS AND METAL SPANDREL PANELS, AND STRUCTURAL SILICONE GLAZING FRAMING - SEE SECTIONS) BASED ON ALUMINOR SHADOWNLINE 970
					<b>Partition Type</b> 1/2\"/>
					<b>Partition Type</b> 1/2\"/>
Partition Types					<b>Partition Type</b> 1/2\"/>
					<b>Partition Type</b> 1/2\"/>
					<b>Partition Type</b> 1/2\"/>

### Referencing

**ad 2.00**

DRAWING NUMBER

DRAWING SERIES NUMBER (ARCHITECTURAL)

0. = GENERAL

1. = SITE

2. = FLOOR PLANS

3. = CEILING PLANS

4. = ELEVATIONS

5. = BUILDING SECTIONS

6. = WALL SECTIONS

7. = SECTION DETAILS

8. = ENLARGED PLANS

9. = PLAN DETAILS

10. = INTERIOR ELEVATIONS

11. = MILLWORK

12. = DOORS, SCREENS AND FRAMES

13. = SPECIALTIES

ADDITIONAL PREFIX (WHERE APPLICABLE)

d = DEMOLITION

f = FURNITURE, FIXTURE AND EQUIPMENT

l = LIFE SAFETY

DISCIPLINE INDICATOR

C = CIVIL

L = LANDSCAPE

A = ARCHITECTURAL

S = STRUCTURAL

M = MECHANICALLY

E = ELECTRICAL

### Legend

#### PLANS

PARTITION/WALL EXISTING TO REMAIN

PARTITION/WALL EXISTING TO BE REMOVED

PARTITION/WALL NEW (SEE PARTITION AND WALL TYPES)

SCREEN EXISTING TO REMAIN

SCREEN EXISTING TO BE REMOVED

SCREEN NEW (SEE DOOR SCHEDULE AND SCREEN TYPES)

DOOR AND FRAME EXISTING TO REMAIN

DOOR AND FRAME EXISTING TO BE REMOVED

DOOR AND FRAME NEW (SEE DOOR SCHEDULE AND DOOR TYPES)

MECHANICAL PLUMBING EXISTING TO REMAIN

MECHANICAL PLUMBING EXISTING TO BE REMOVED

MECHANICAL PLUMBING NEW (SEE MECHANICAL)

### Referencing

**Laundry 104**

ROOM NAME

ROOM NUMBER

**DOOR AND FRAME NUMBER**

DOOR AND FRAME NUMBER

DOOR NUMBER PREFIX

EXTERIOR

OVERHEAD DOOR

ROOM NUMBER REFERENCE

**SCREEN NUMBER**

SCREEN NUMBER

ROOM NUMBER REFERENCE

**SECTION LETTER REFERENCE**

**BUILDING SECTION REFERENCE**

**WALL SECTION REFERENCE**

**SECTION DETAIL REFERENCE**

### Typical Fire Separation Integrity Details (plan detail)

Scale NTS

### Typical FireStopping Section Detail

Scale NTS

Assemblies & Information

21026b

scale

NTS

date

2023-03-15

checked by

C. Berkenbosch

drawn by

E. Lavallee

project

Barrier Free Upgrades  
Our Lady of Fatima Catholic School  
14 Strathcona St., P.O. Box 110, Chapleau Ontario  
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idea

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Tel: (705) 949-5291 - Email: info@integrateddesign.ca

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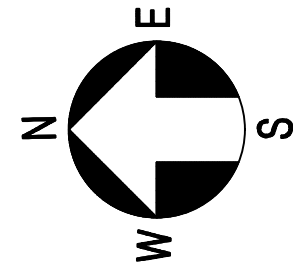
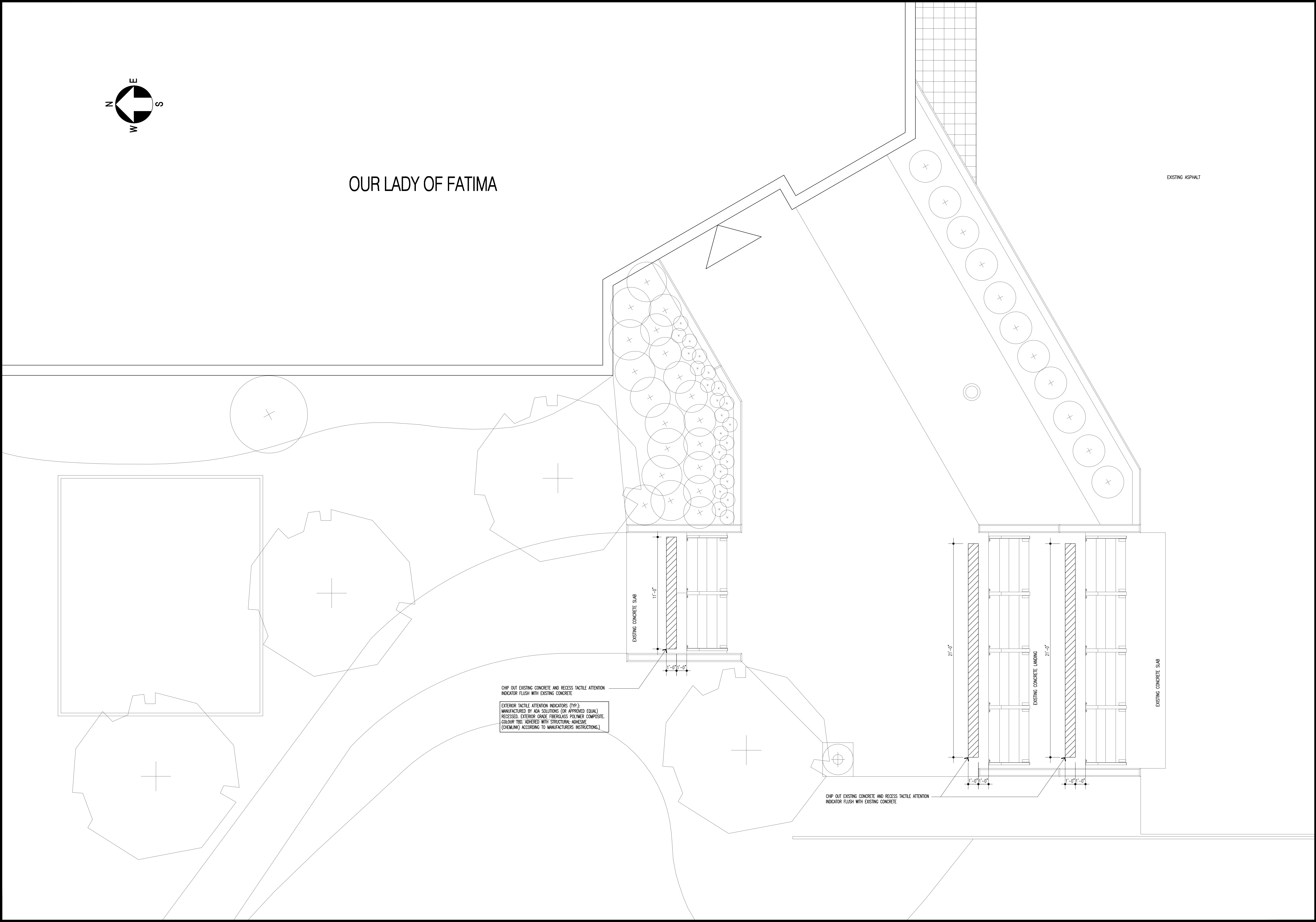
E. Lavallee

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drawn

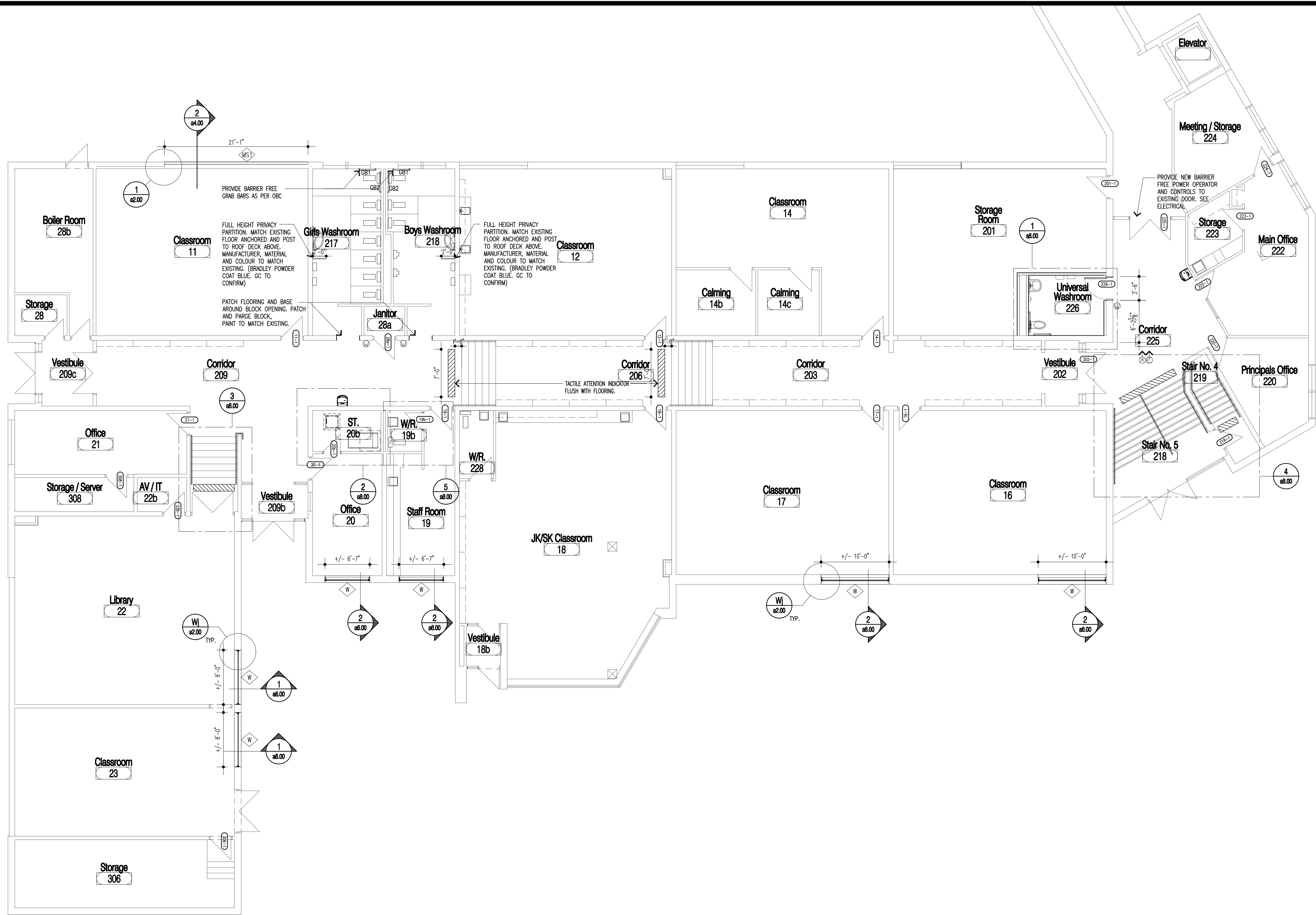
21026b



OUR LADY OF FATIMA

EXISTING ASPHALT





CLADDING EXTERIOR CORNER TRIM BY MANUFACTURER

RETURN CLADDING MATERIAL TO WINDOW FRAMING AT OPENINGS.

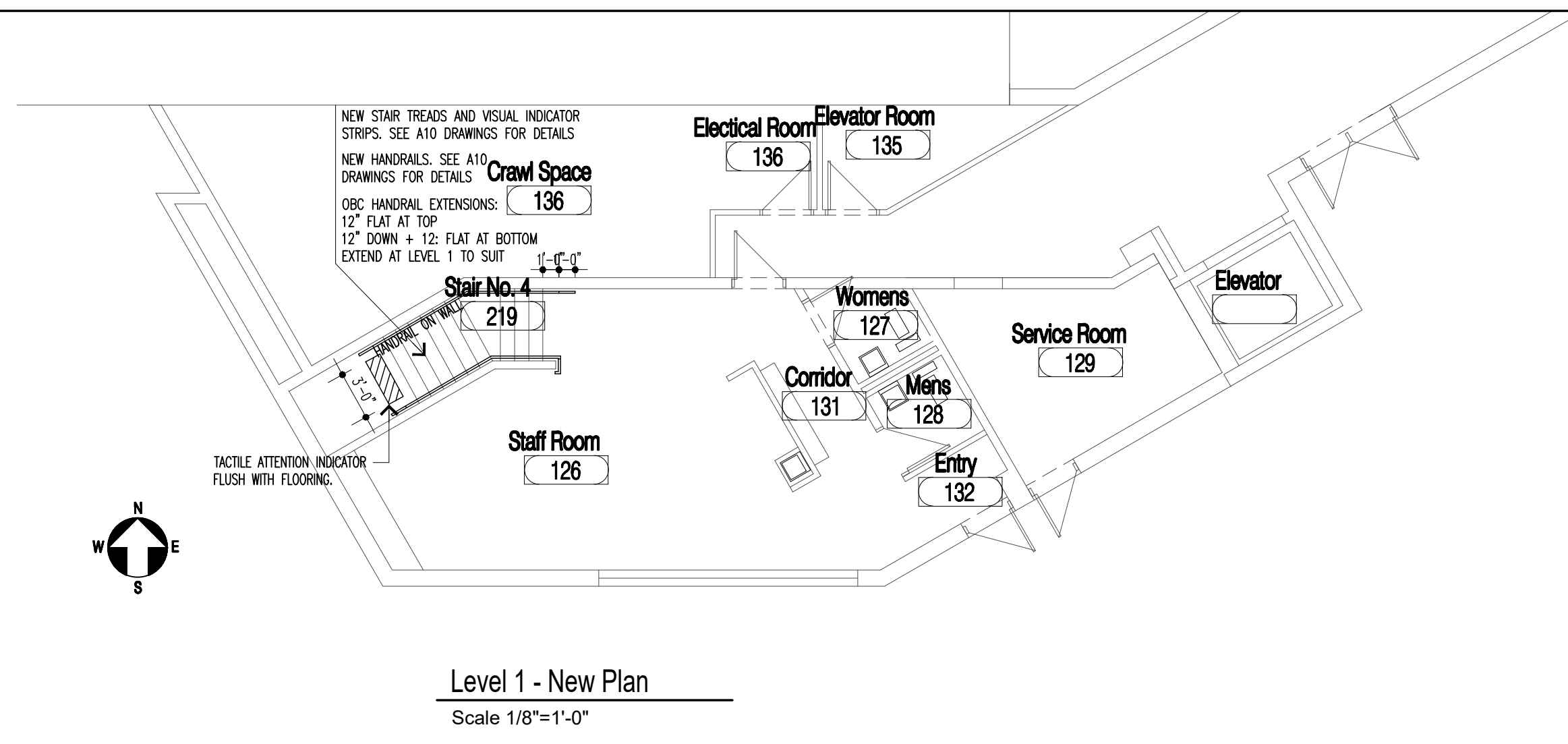
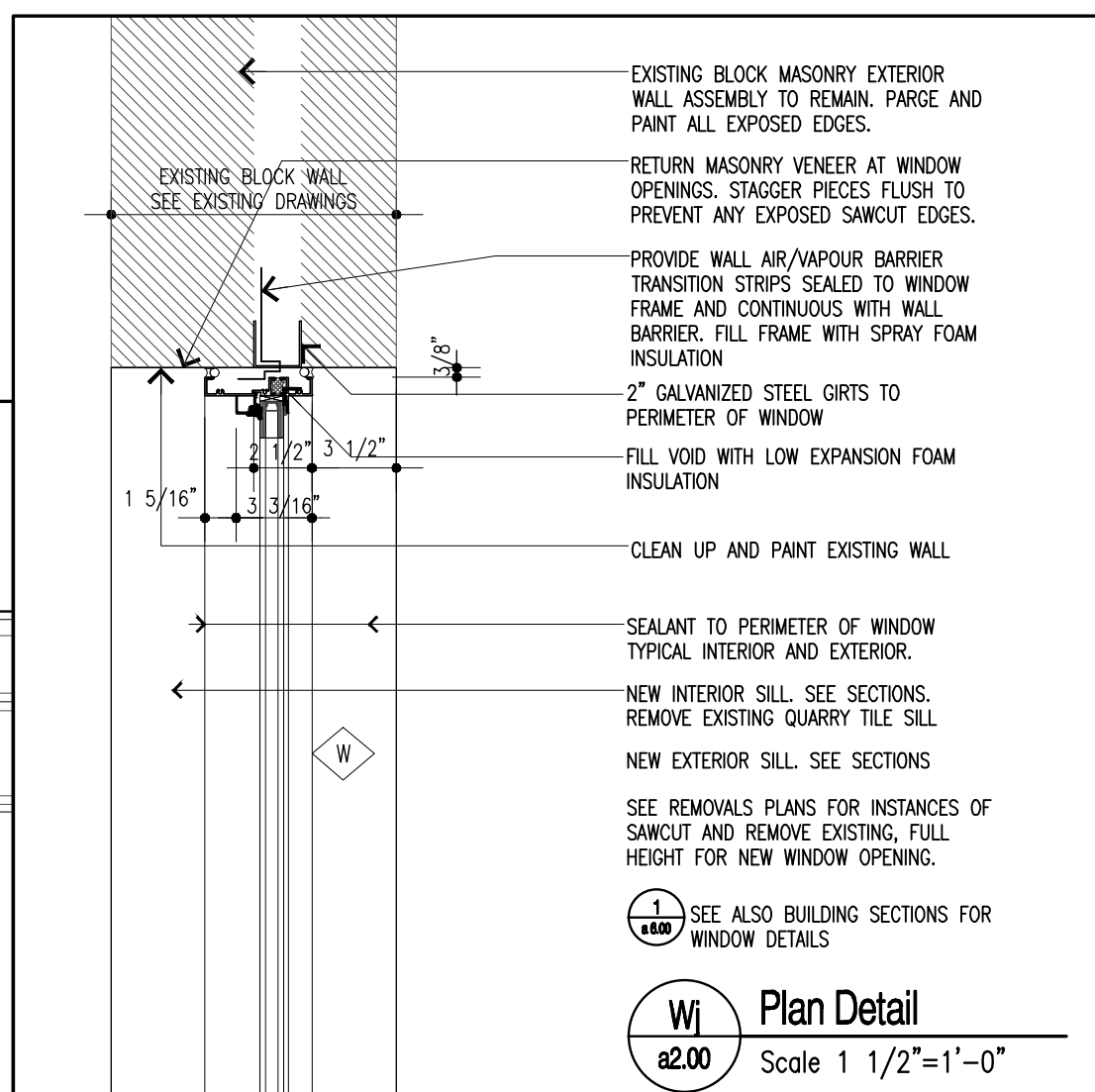
PROVIDE NEW CAULKING BETWEEN WINDOW FRAME & METAL SIDING

EXISTING WINDOW CONSTRUCTION TO REMAIN

1  
a2.00

Plan Detail

Scale 1"=1'-0"



CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THESE DIMENSIONS.

REMOVE EXISTING DOORS, WINDOWS AND WALLS ARE NOTED TO BE REMOVED. REMOVE TO LUSTING OF CONSTRUCTION. PATCH, REPAIR AND MAKE GOOD EXISTING SURFACES TO MATCH EXISTING CONSTRUCTION TO MATCH EXISTING ADJACENT CONSTRUCTION. PREPARE FOR NEW FINISHES.

REFER ALSO TO MECHANICAL AND ELECTRICAL DRAWINGS FOR EXISTING REMOVALS WHERE EXISTING MECH AND/OR ELECT. IS TO BE REMOVED, CAP OFF PIPING, REMOVE EXISTING MECH AND/OR ELECTRICAL EQUIPMENT, REMOVE EXISTING FLOOR, WALLS AND CEILINGS WITH NEW CONSTRUCTION MATCHING EXISTING. CAP OFF PIPING, REMOVE EXISTING MECH AND/OR ELECTRICAL EQUIPMENT. ALL WORK IS TO BE COORDINATED/PERFORMED BY THE GENERAL CONTRACTOR. PREPARE FOR NEW FINISHES.

GENERAL CONTRACTOR TO MAKE GOOD ALL FINISHES WHERE MECHANICAL AND ELECTRICAL WORK PERTAINATES EXISTING FINISHES.

REMOVE EXISTING CEILING AS REQUIRED FOR ACCESS TO AND/OR TO PERFORM WORK OF THE PROJECT. REPLACE/REINSTALL CEILING LUSTS TO MATCH EXISTING FINISHES.

REMOVE EXISTING TACKERS, PARTIALS, FURNITURE, ETC. PRIOR TO PAINTING & REFINISH. TURNOVER TO OWNER IN AREAS OF REMOVALS FOR NEW CONSTRUCTION. REMOVE EXISTING TACKERS, PARTIALS, FURNITURE, ETC. PRIOR TO PAINTING & REFINISH.

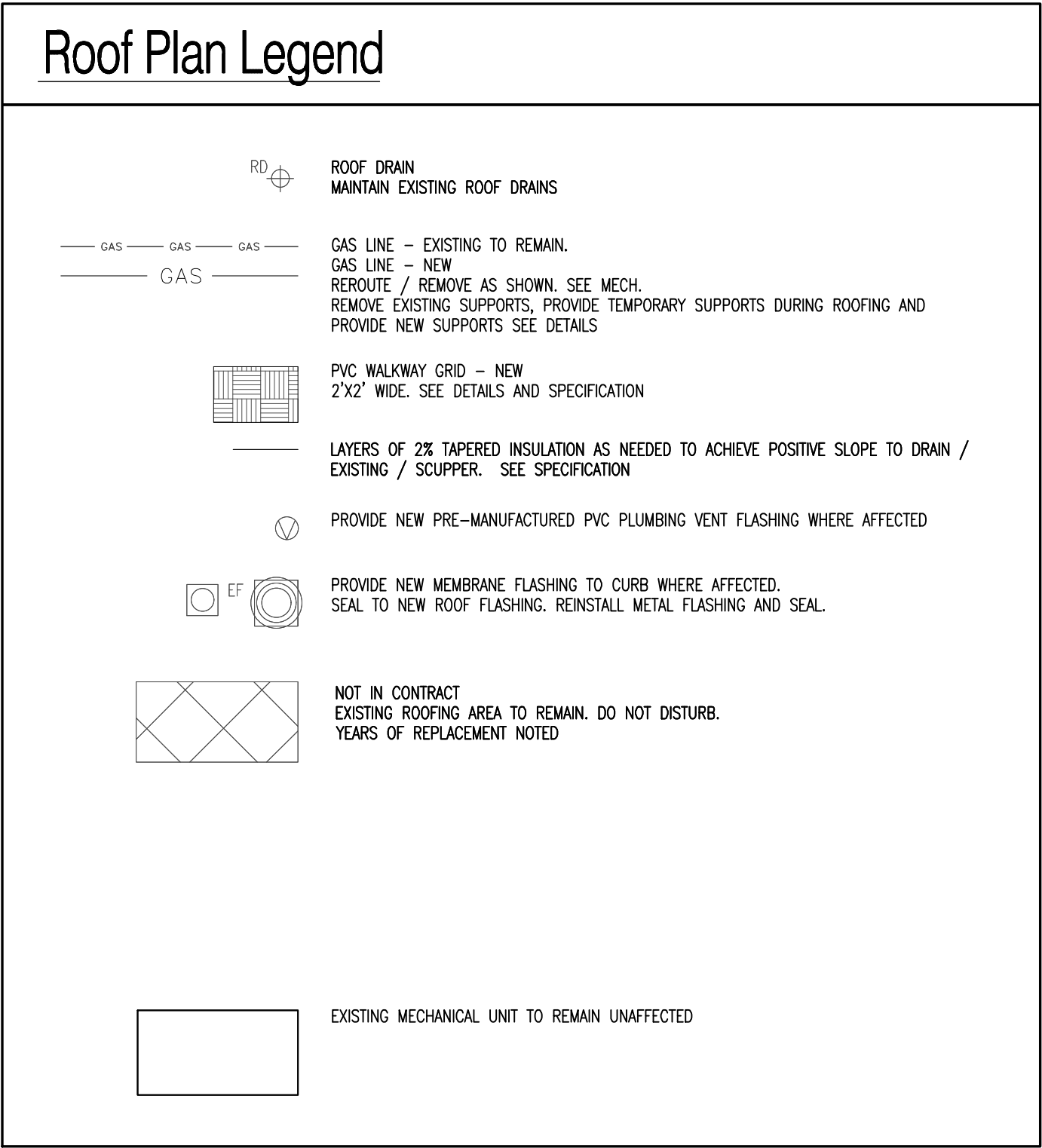
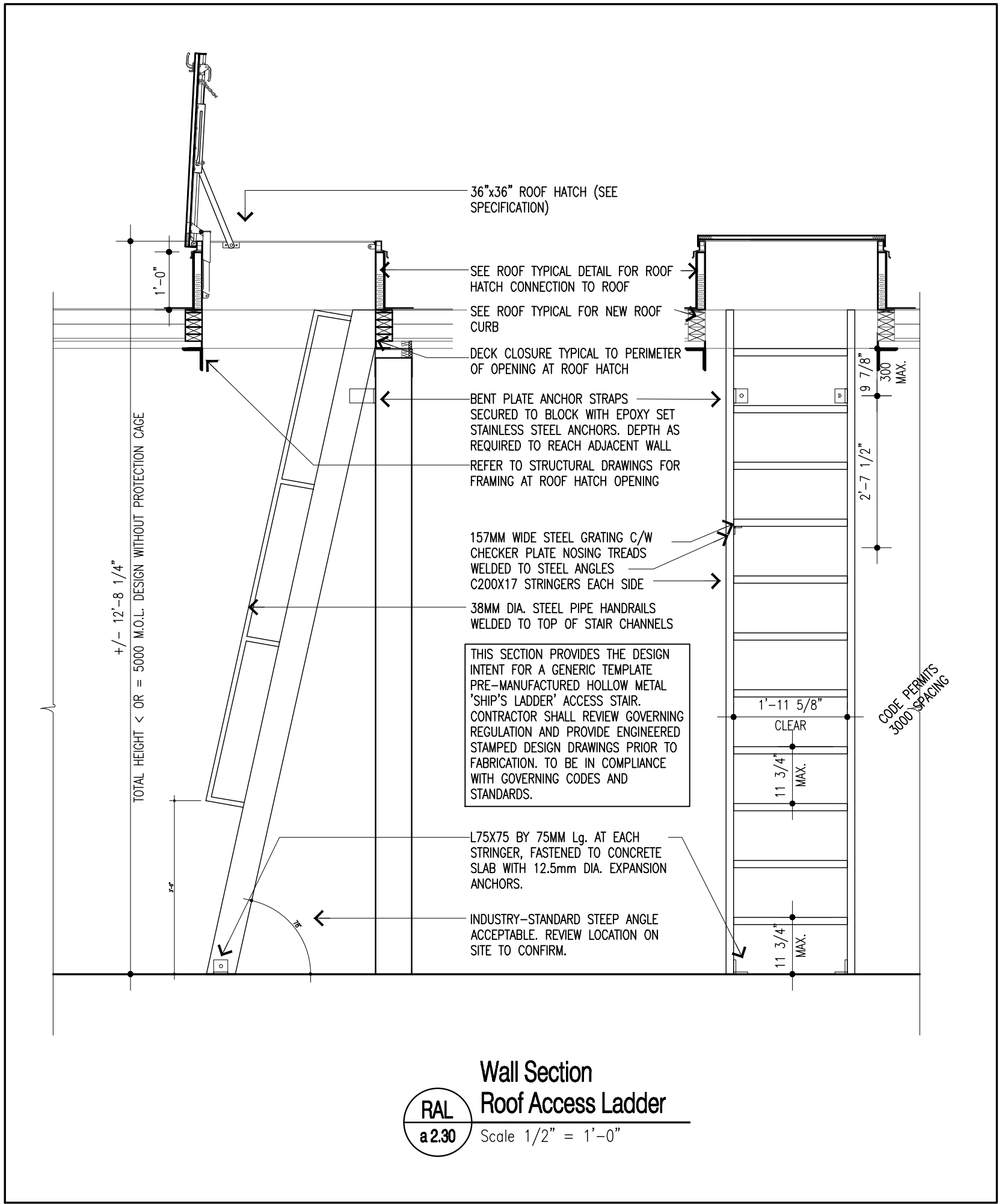
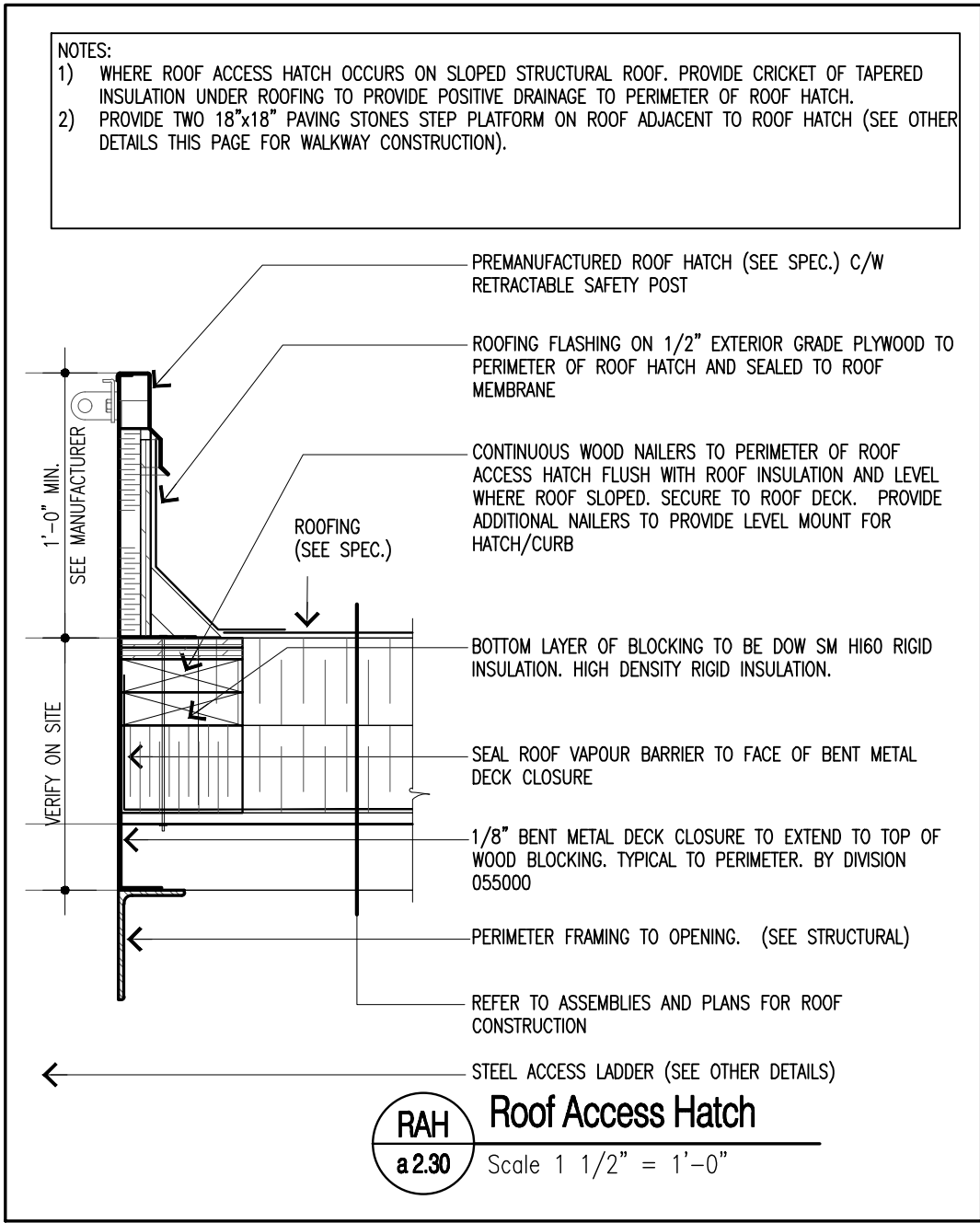
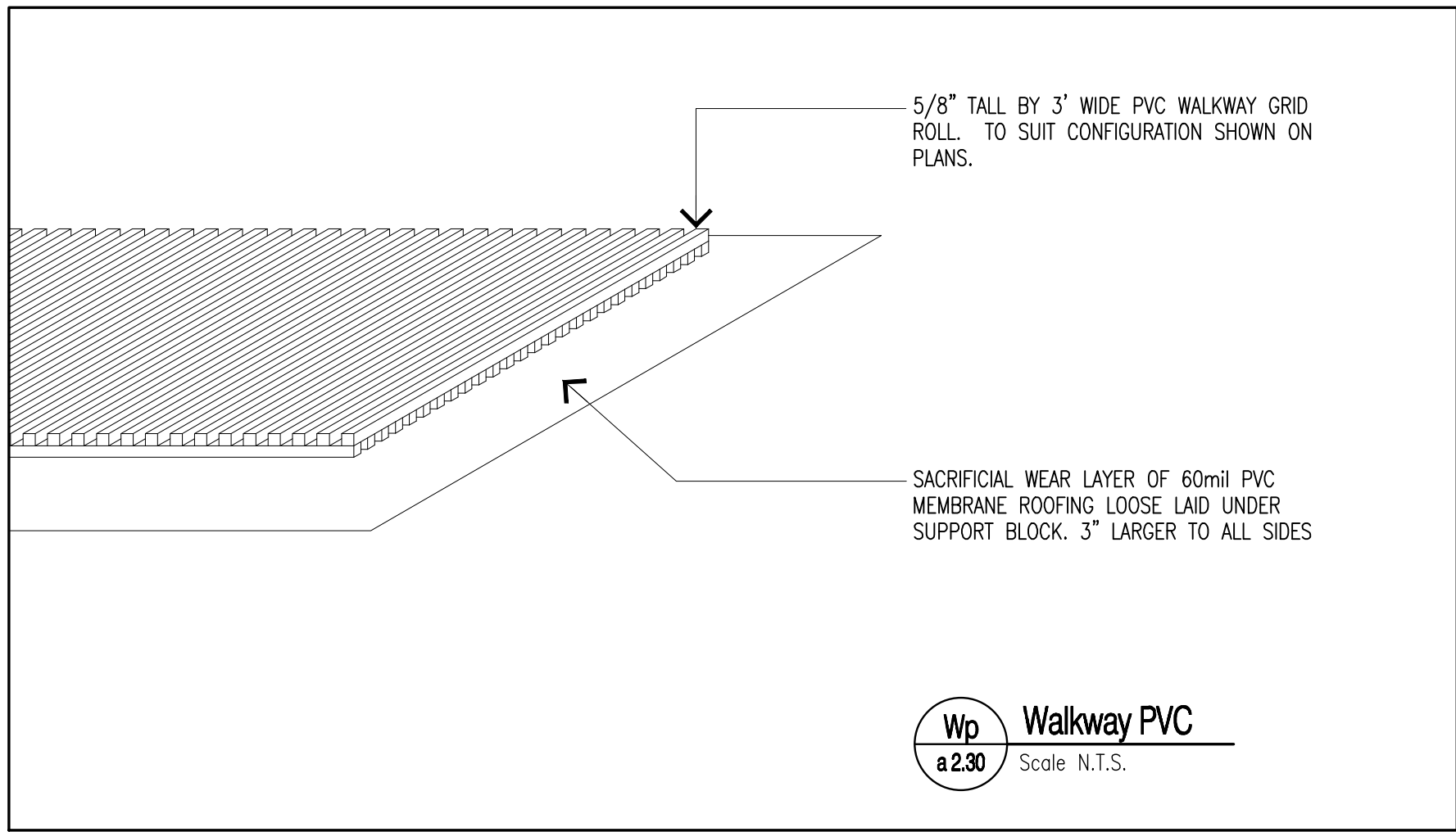
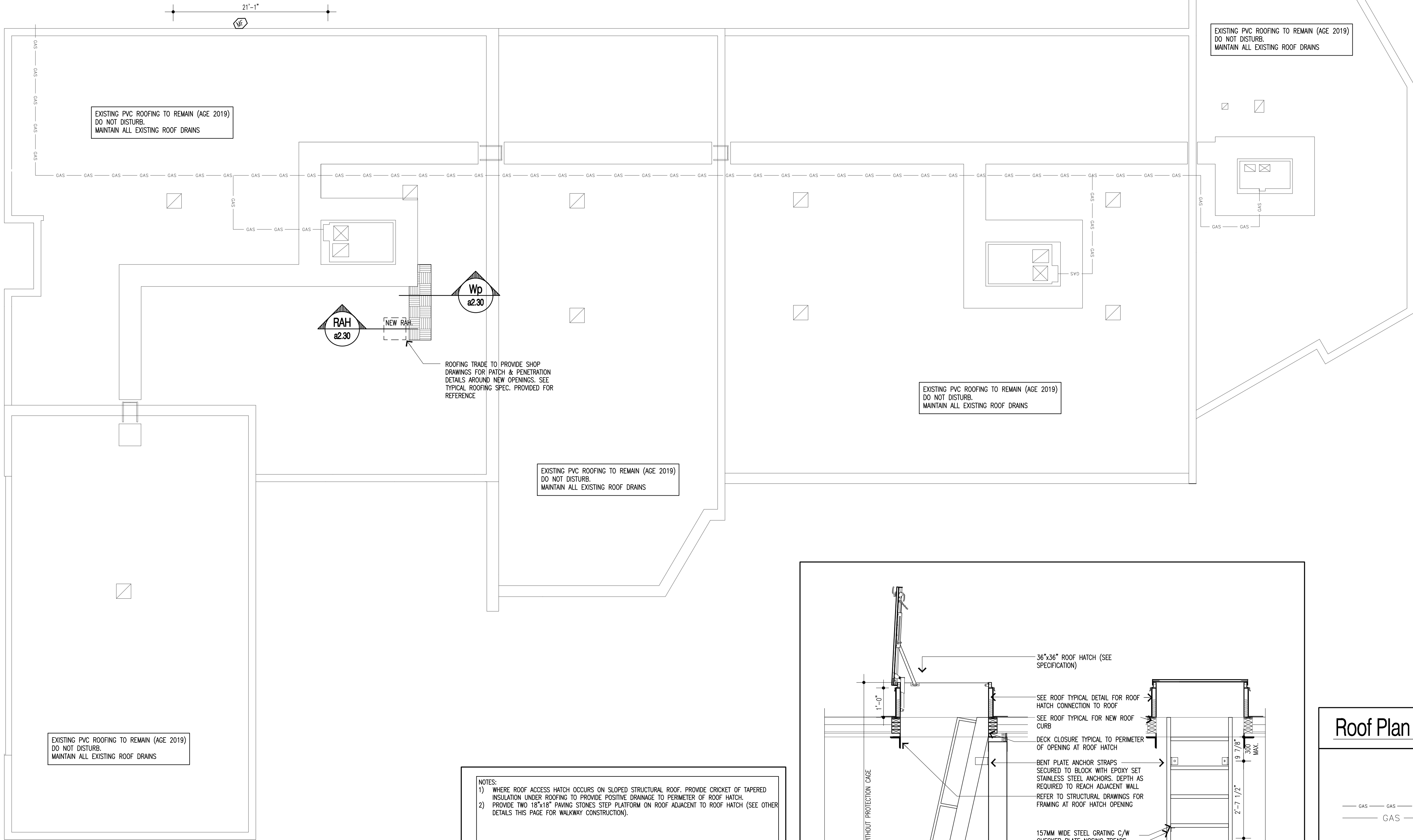
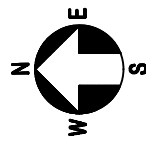
THE OWNER SHALL RETURN FIRST RIGHT OF REFUSAL FOR ALL EXISTING MATERIAL TO BE REMOVED. REVIEW WITH OWNER'S REPRESENTATIVE ALL EXISTING MATERIAL PRIOR TO DEMOLITION. CONTRACTOR TO CAREFULLY REMOVE ALL MATERIAL TO BE TURNED OVER TO OWNER. CONTRACTOR TO BE RESPONSIBLE FOR THE PROTECTION OF ALL MATERIAL NOT RETAINED BY OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.

PROVIDE ADDITIONAL COATS OF PRIMER PAINT AND BLOCK FILLER PAINT TO EXISTING WALLS WHERE MATERIAL HAS BEEN REMOVED TO ENSURE THAT NEW WALL FINISH IS PROPERLY ADHERED TO. PROVIDE ADDITIONAL COATS OF PRIMER PAINT AND BLOCK FILLER PAINT TO EXISTING FLOOR FOR NEW FLOOR FINISHES. REMOVE EXISTING ADDRESS PLATES. PAINT THE LIKE FOR NEW FINISHES. PATCH HOLES, CHIPS, GOUGES AND THE LIKE. PROVIDE CONSISTENT TYPING AND GRIND FLOOR TO PROVIDE LEVEL FINISH.

RELOCATION OF EXISTING FURNITURE TO THE CENTER OF THE ROOM WILL BE THE RESPONSIBILITY OF THE OWNER. CONTRACTOR TO COVER FURNITURE WITH DROP CLOTHS TO PROTECT FROM PAINT AND FINISHES.

REMOVE EXISTING TACKERS THAT DO NOT CLEAR NEW CEILING INSTALLATION WILL BE REMOVED AND TURNED OVER TO OWNER.





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ENGINEERING + ARCHITECTURE

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Project

Barrier Free Upgrades  
Our Lady of Fatima Catholic School  
14 Strathcona St., P0M 1K0, Chapleau Ontario  
for the Huron Superior Catholic District School Board

Revision

0, 2023-03-15

Issued for Tender & Construction

Scale

1/8" = 1'-0"

2023-03-15

Checked by

C. Berkenbosch

2023-03-15

Drawn by

E. Lavallee

2023-03-15

Drawing

Roof Plan  
Removals and New

21026b

Number

a2.30

21026b




SEE MECHANICAL AND ELECTRICAL PLANS FOR LEGENDS FOR RESPECTIVE EQUIPMENT

DIMENSIONS FOR THESE PLANS FROM FACE OF WALL/BULKHEAD FINISH (FACE OF GYPSUM BOARD)

WHERE EDGE OF BULKHEADS SHOWN TO ALIGN WITH FACE OF WALL, FACE OF GYPSUM BOARD OF BULKHEAD TO ALIGN WITH FACE OF GYPSUM BOARD OF WALL

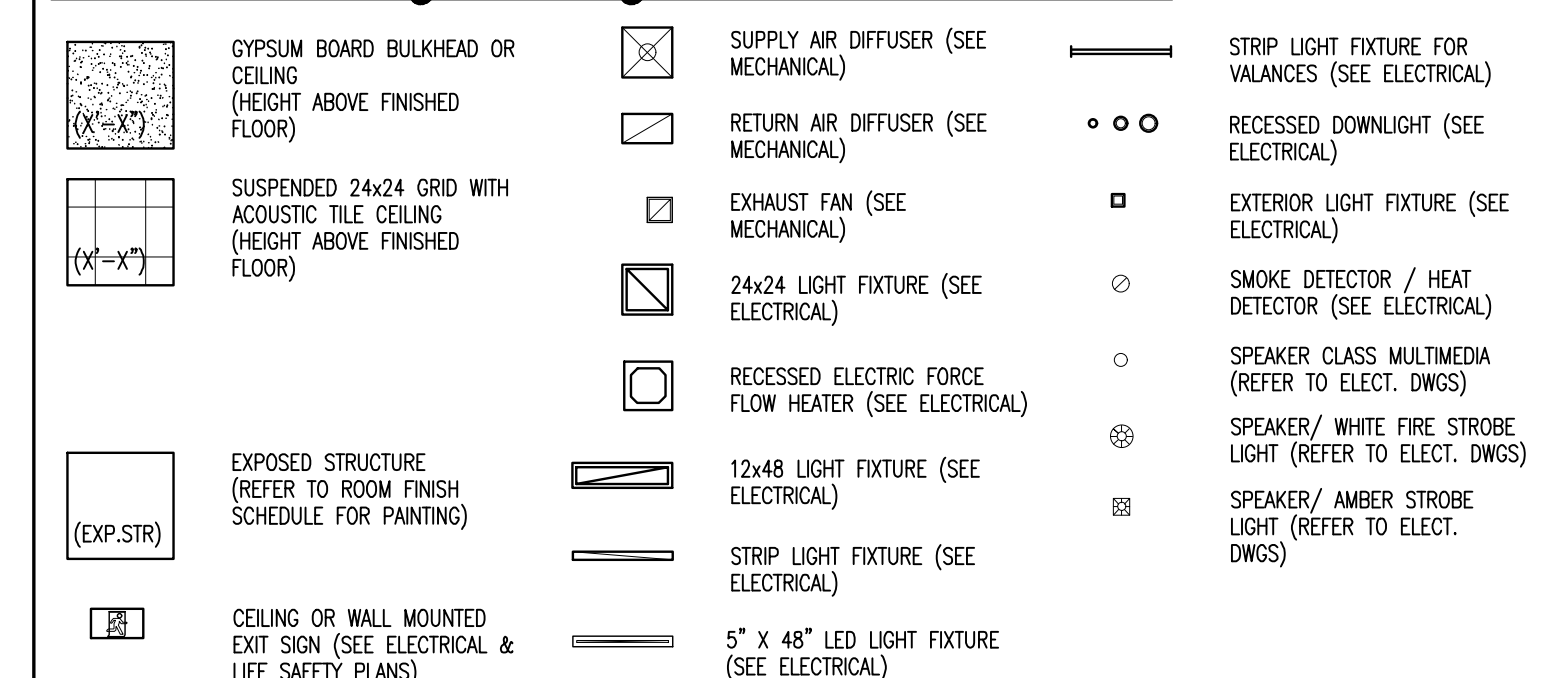
REFER TO LIFE SAFETY PLANS FOR EXTENT OF ANY EXISTING FLOOR SEPARATION REQUIREMENTS TO BE MAINTAINED, AS WELL AS FINISHES USED TO ACHIEVE THESE RATINGS.

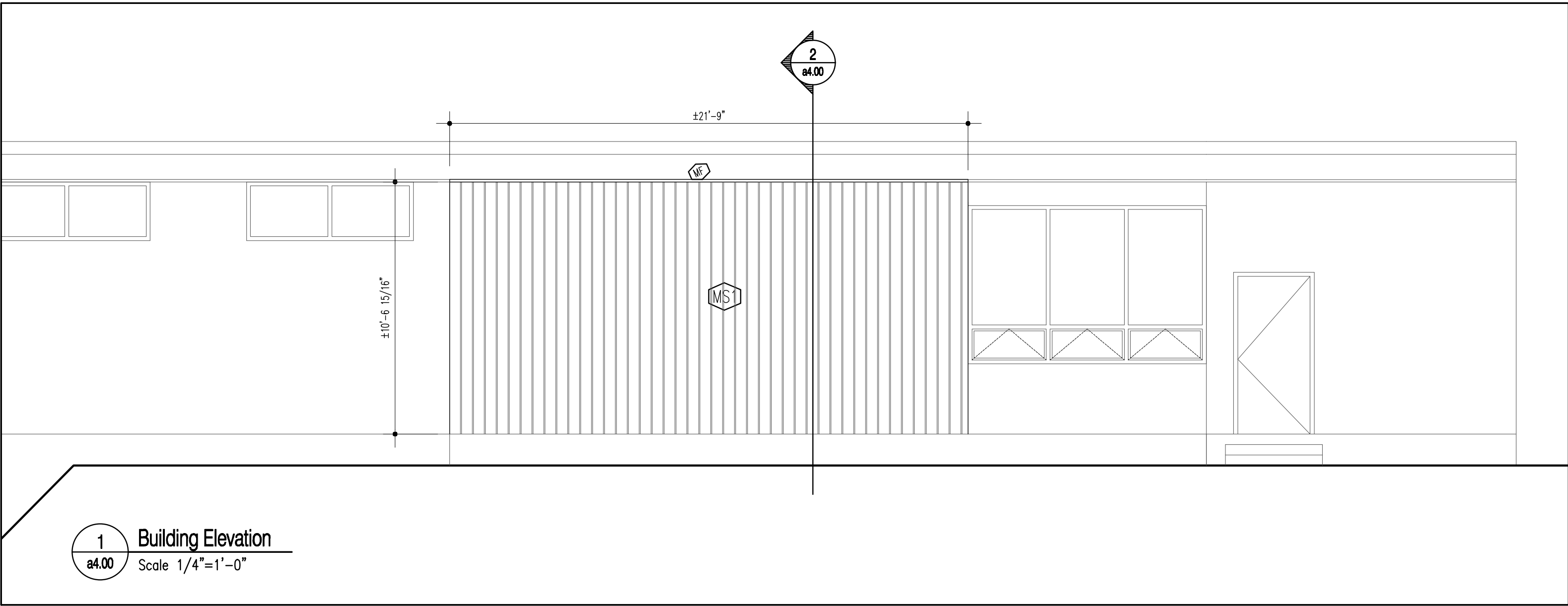
REFER TO ELECTRICAL DRAWINGS FOR DESIGNATION OF EMERGENCY LIGHTING LIGHT FIXTURES

 DENOTES BULKHEAD TYPE REFER TO TYPICAL CEILING PLAN DETAILS DRAWING 07.50 FOR CONSTRUCTION REQUIREMENTS

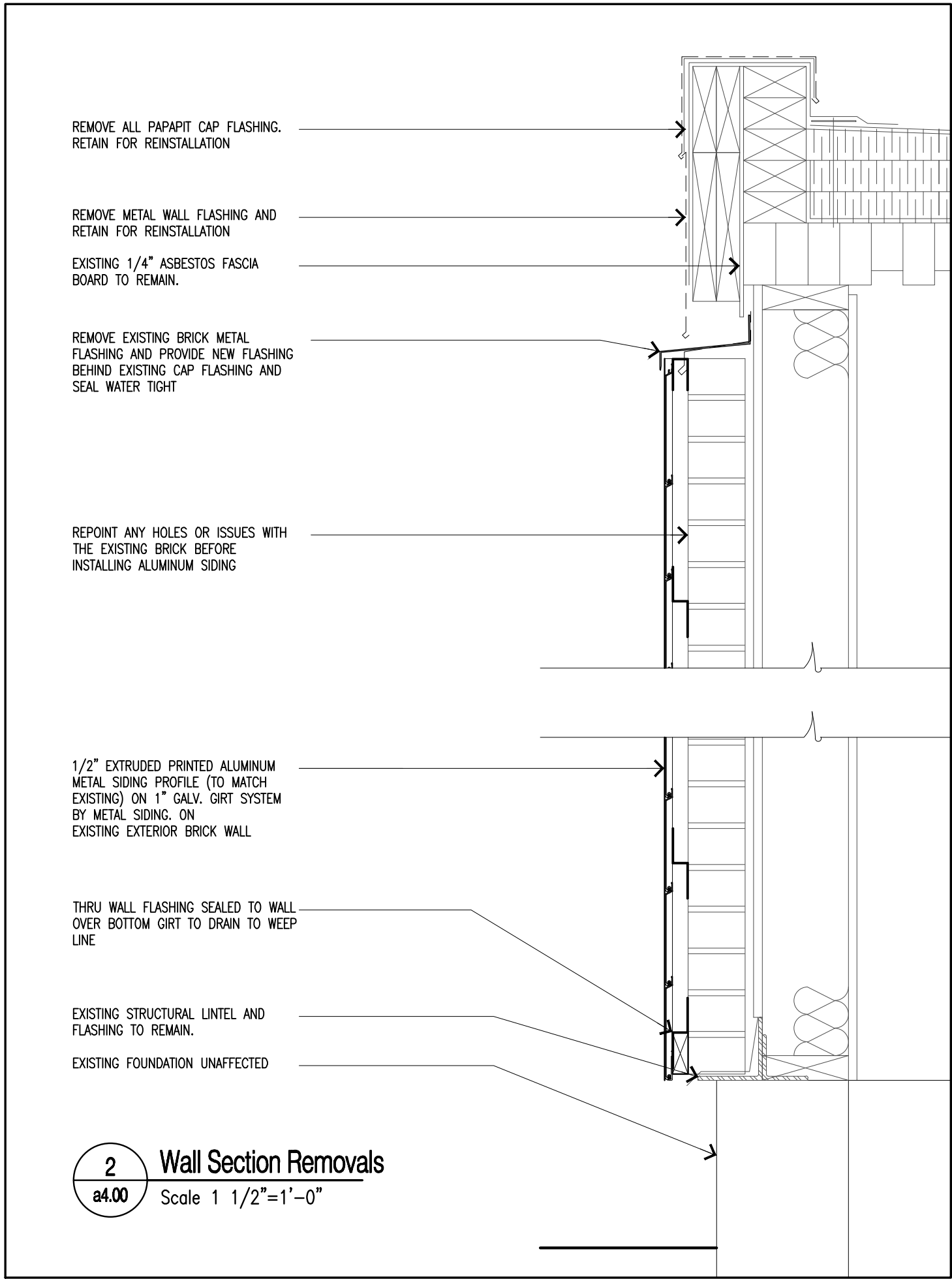
$(x'-x'')$  INDICATES CEILING HEIGHT ABOVE FINISH FLOOR

### Reflected Ceiling Plan Legend - New Construction

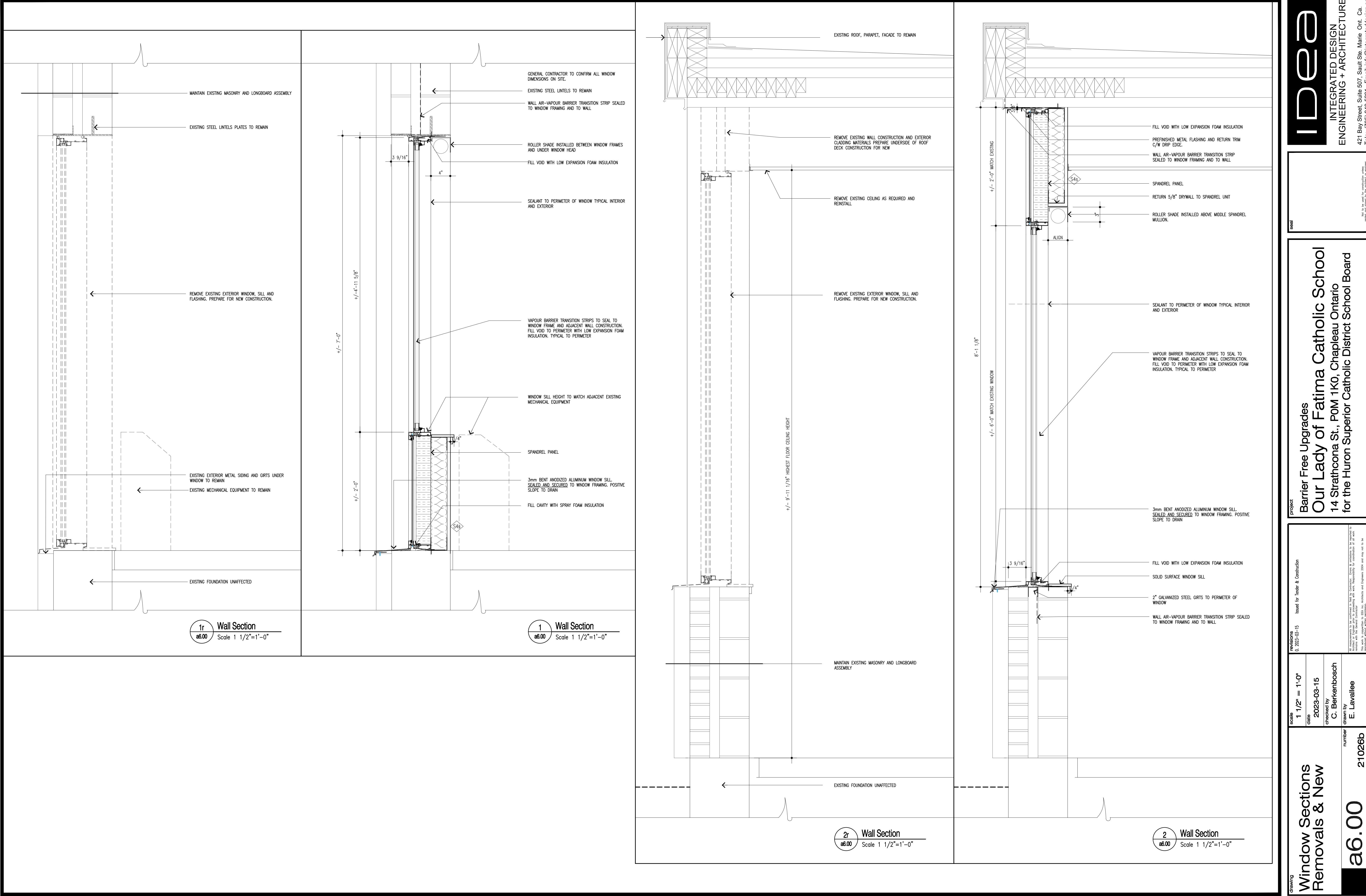


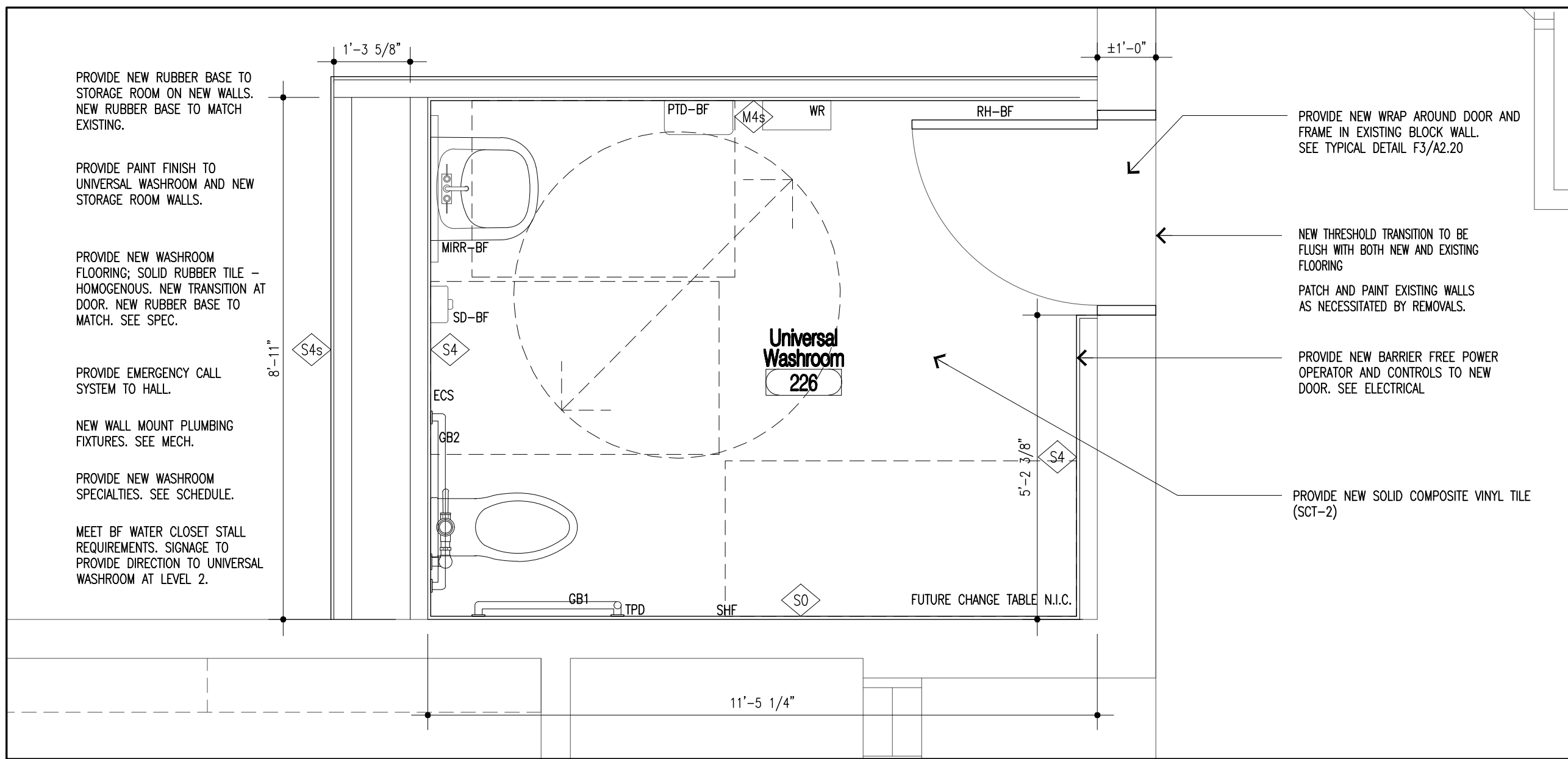


Elevation Legend		REFER TO DRAWINGS, AND SPECIFICATION
Elevation Legend		
	PREFINISHED METAL SIDING MATERIAL METAL CLADDING PROFILE VERTICAL - TO MATCH EXISTING COLOUR WOOD GRAIN - TO MATCH EXISTING	
Miscellaneous		
	METAL FLASHING MATERIAL ALUMINUM COLOUR PREFINISHED COLOUR (SEE SPEC.)	

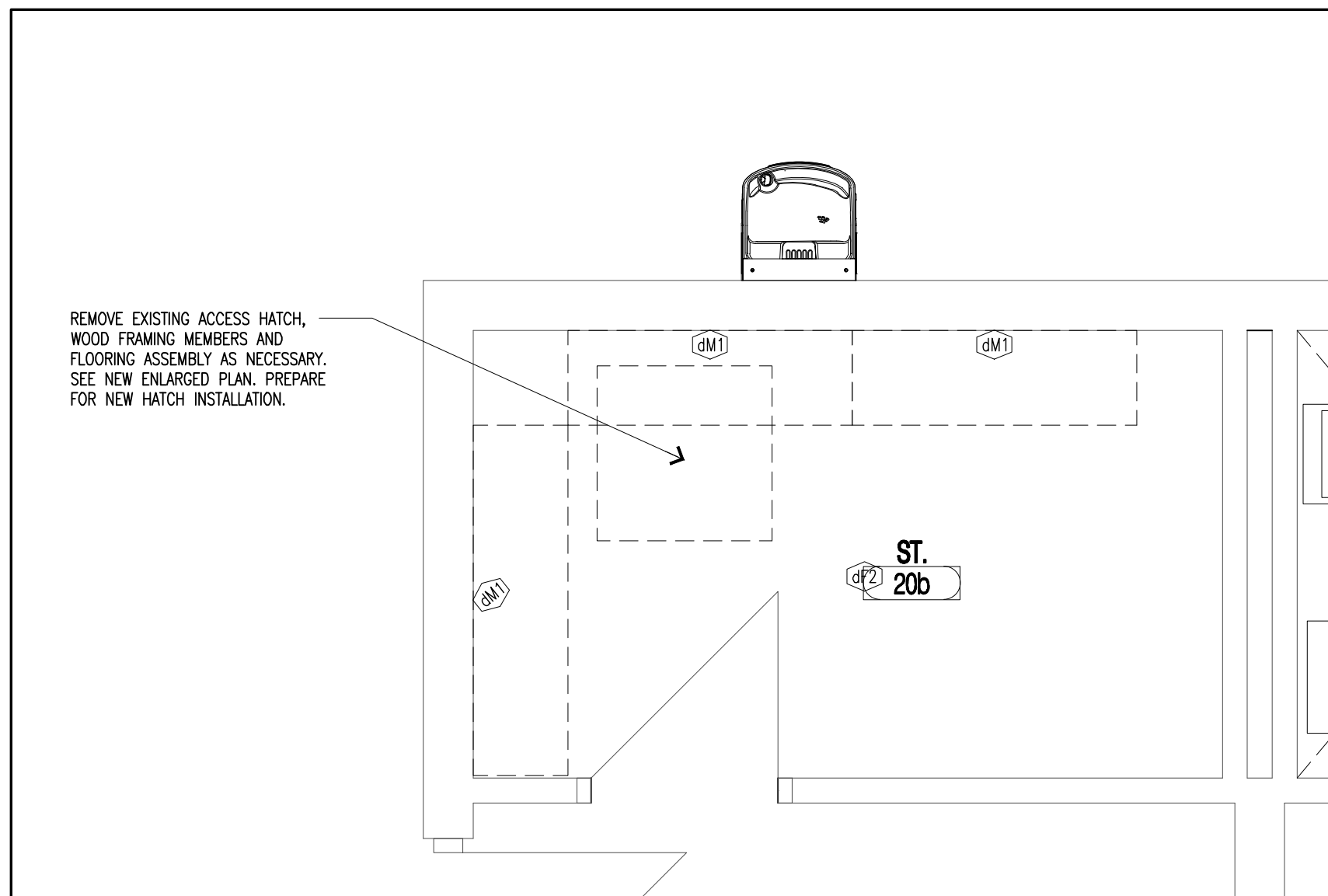




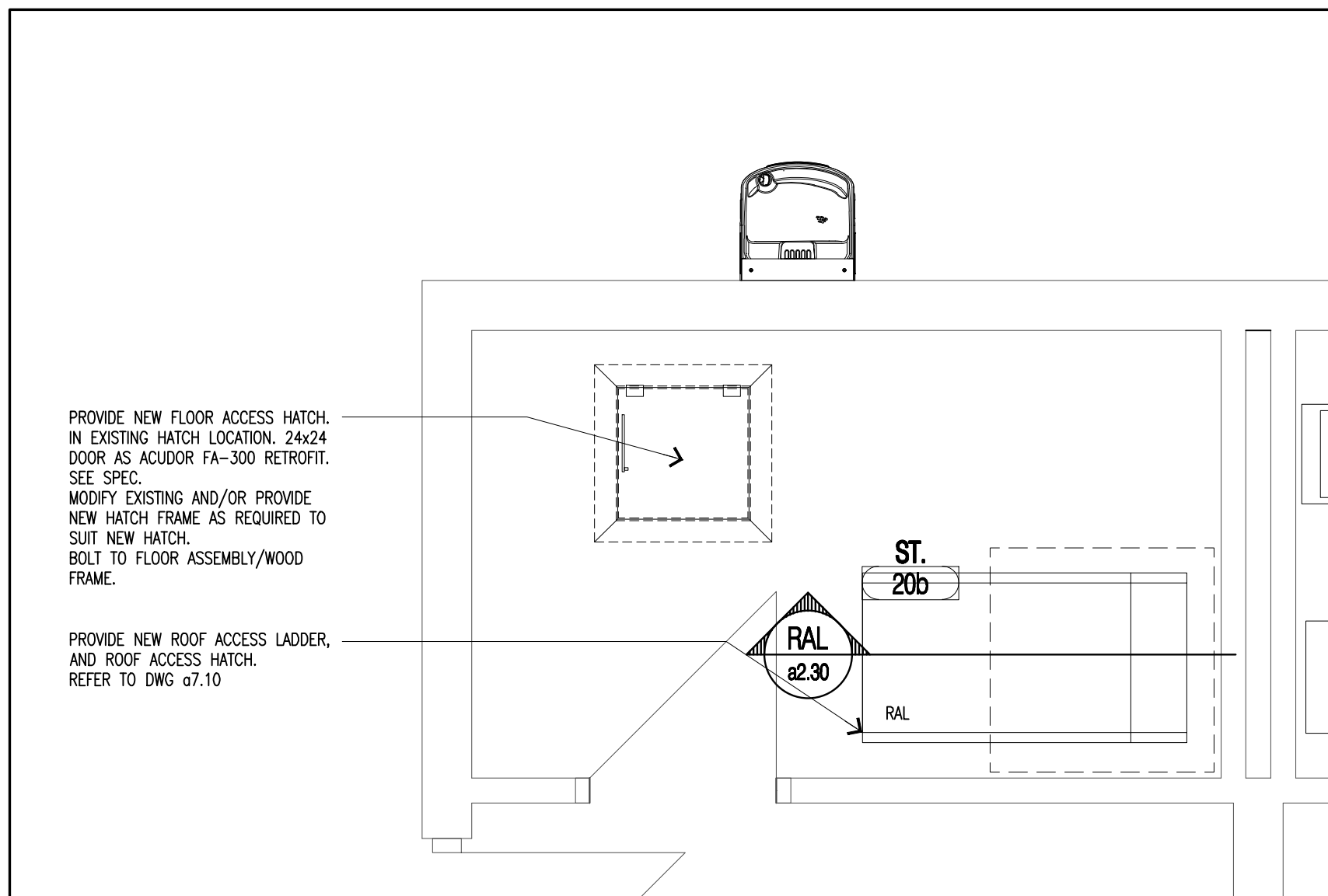




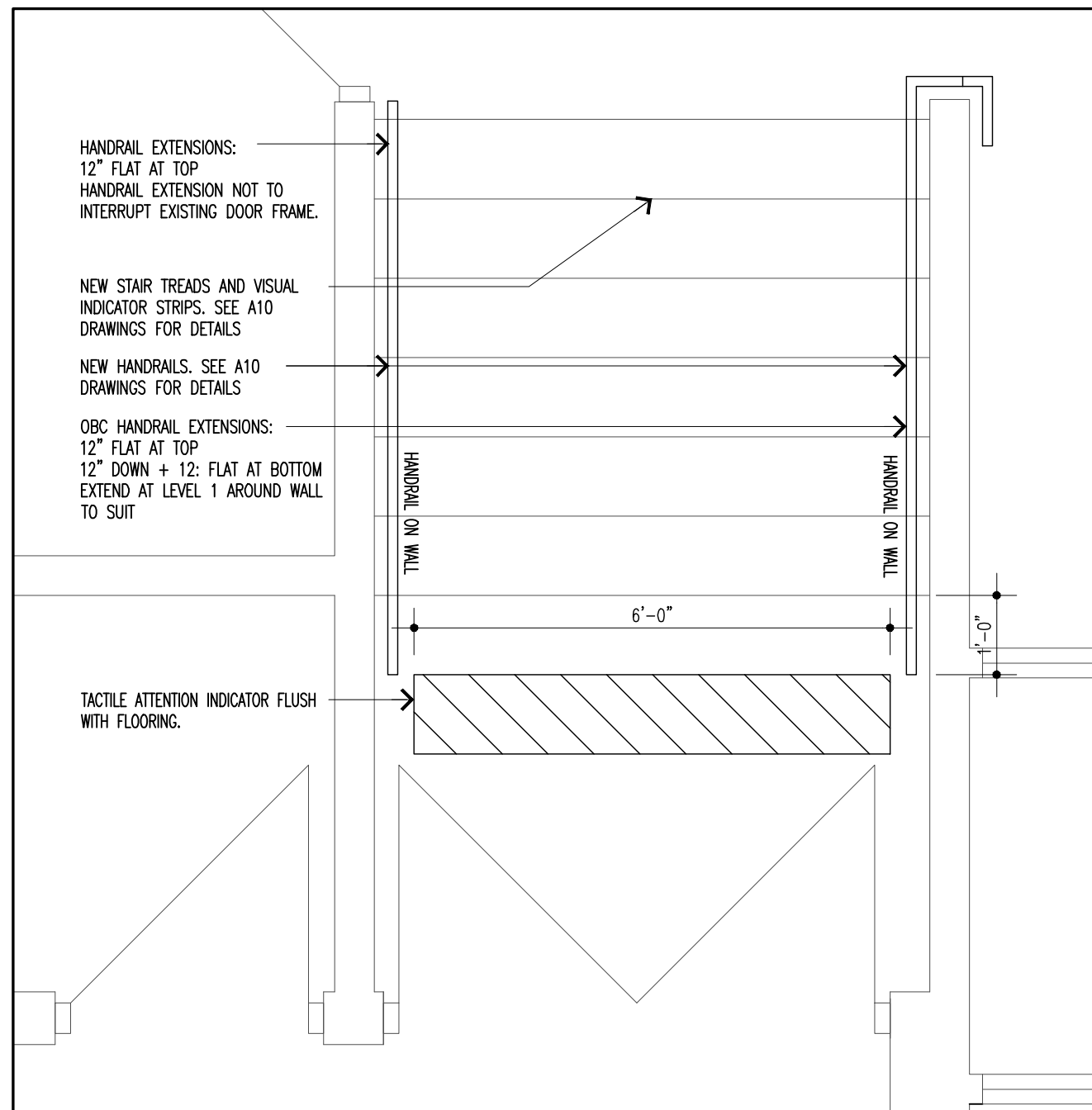
1 Universal Washroom New  
a8.00 Scale 1/2"=1'-0"



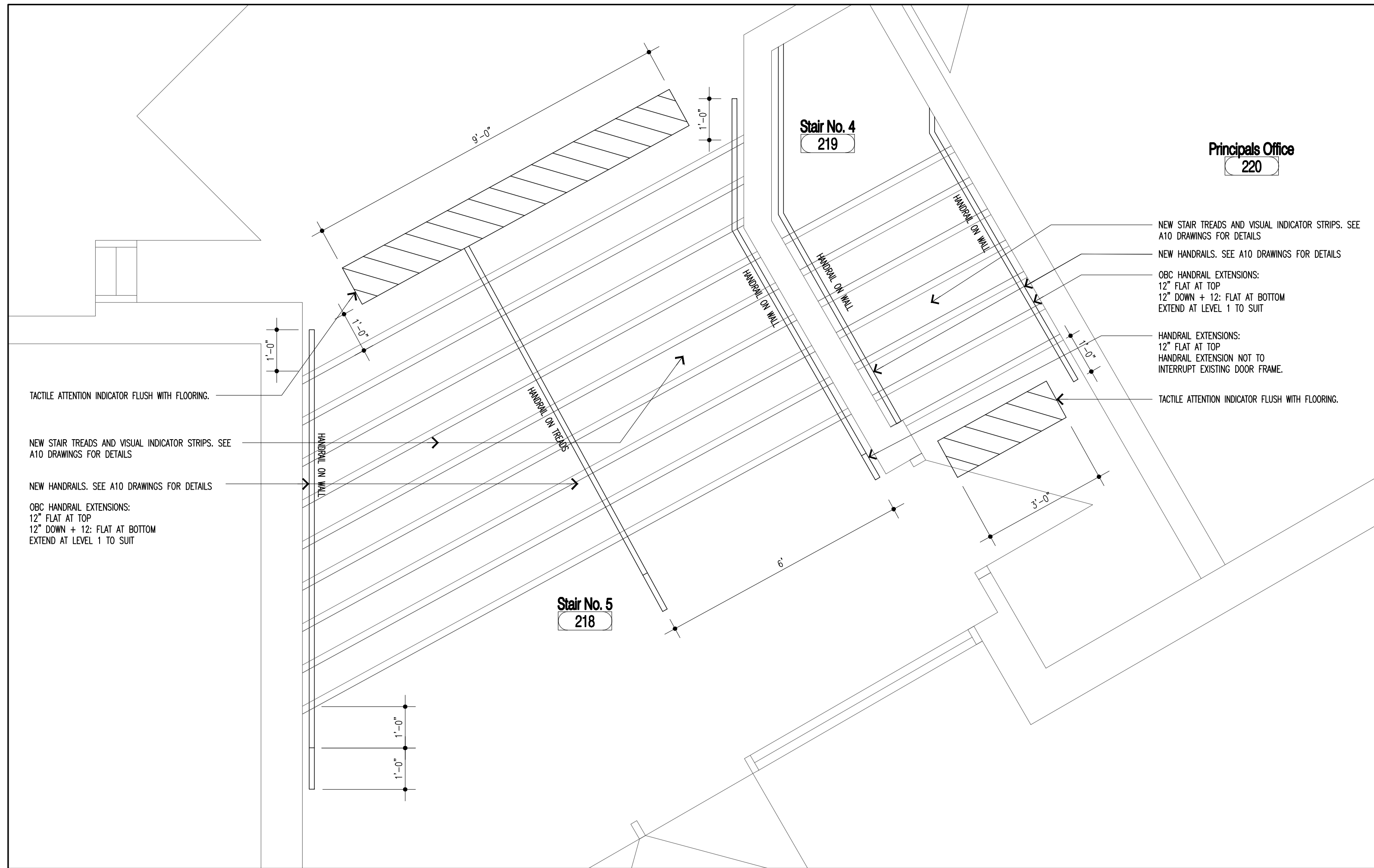
2r Storage Room Removals  
a8.00 Scale 1/2"=1'-0"



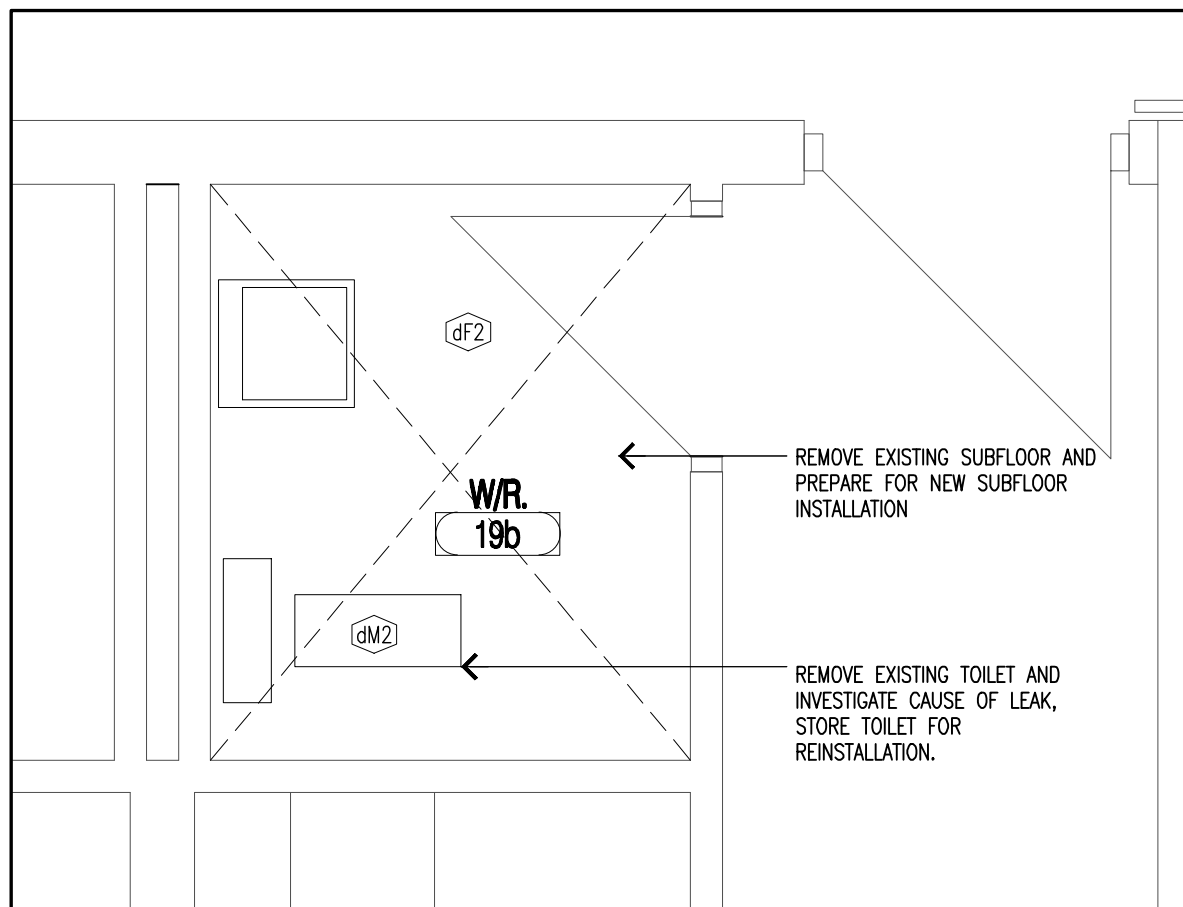
2 Storage Room New  
a8.00 Scale 1/2"=1'-0"



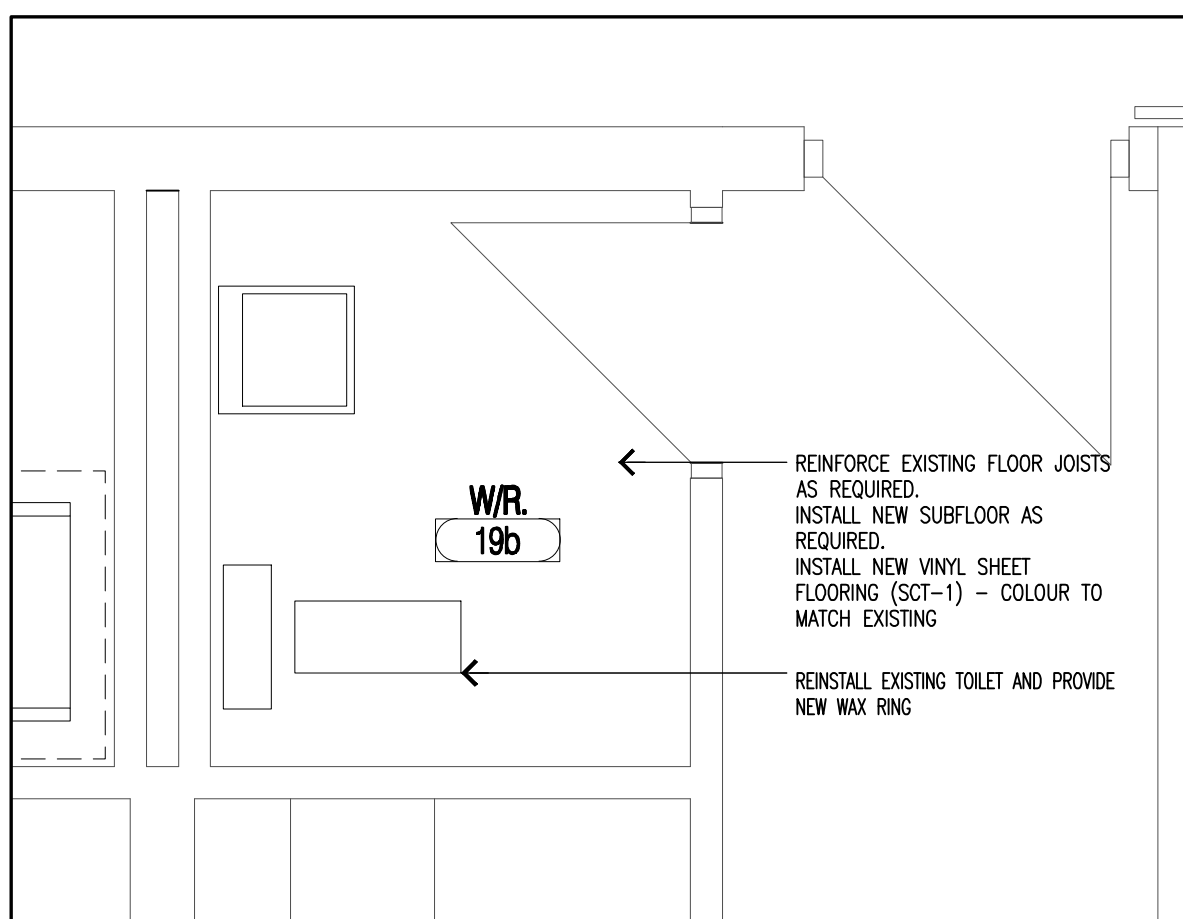
3 Library 22 Stair New  
a8.00 Scale 1/2"=1'-0"



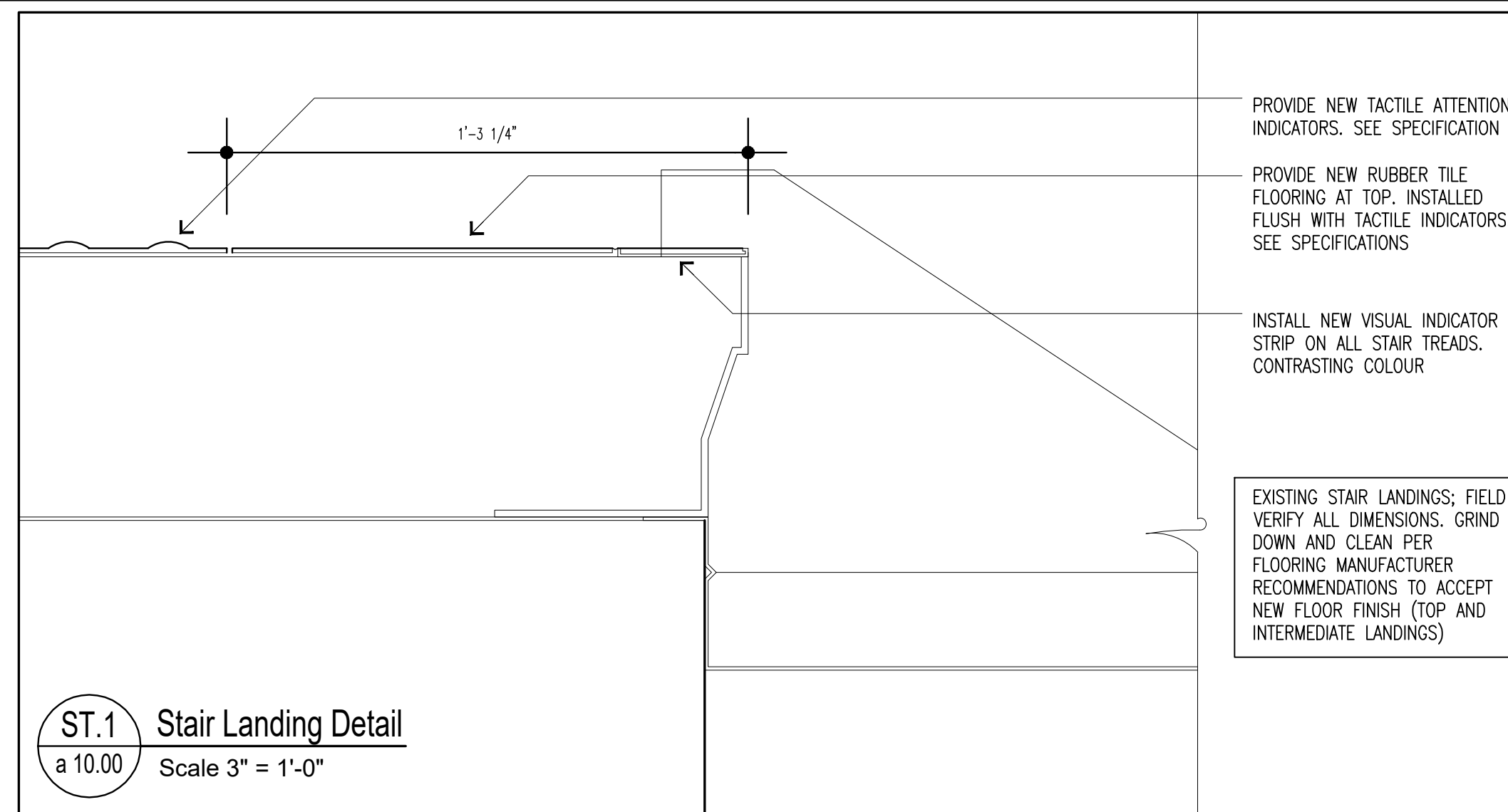
4 Stair No. 5 New  
a8.00 Scale 1/2"=1'-0"



5r Storage Room Removals  
a8.00 Scale 1/2"=1'-0"



5 Storage Room Removals  
a8.00 Scale 1/2"=1'-0"



### Stair General Notes

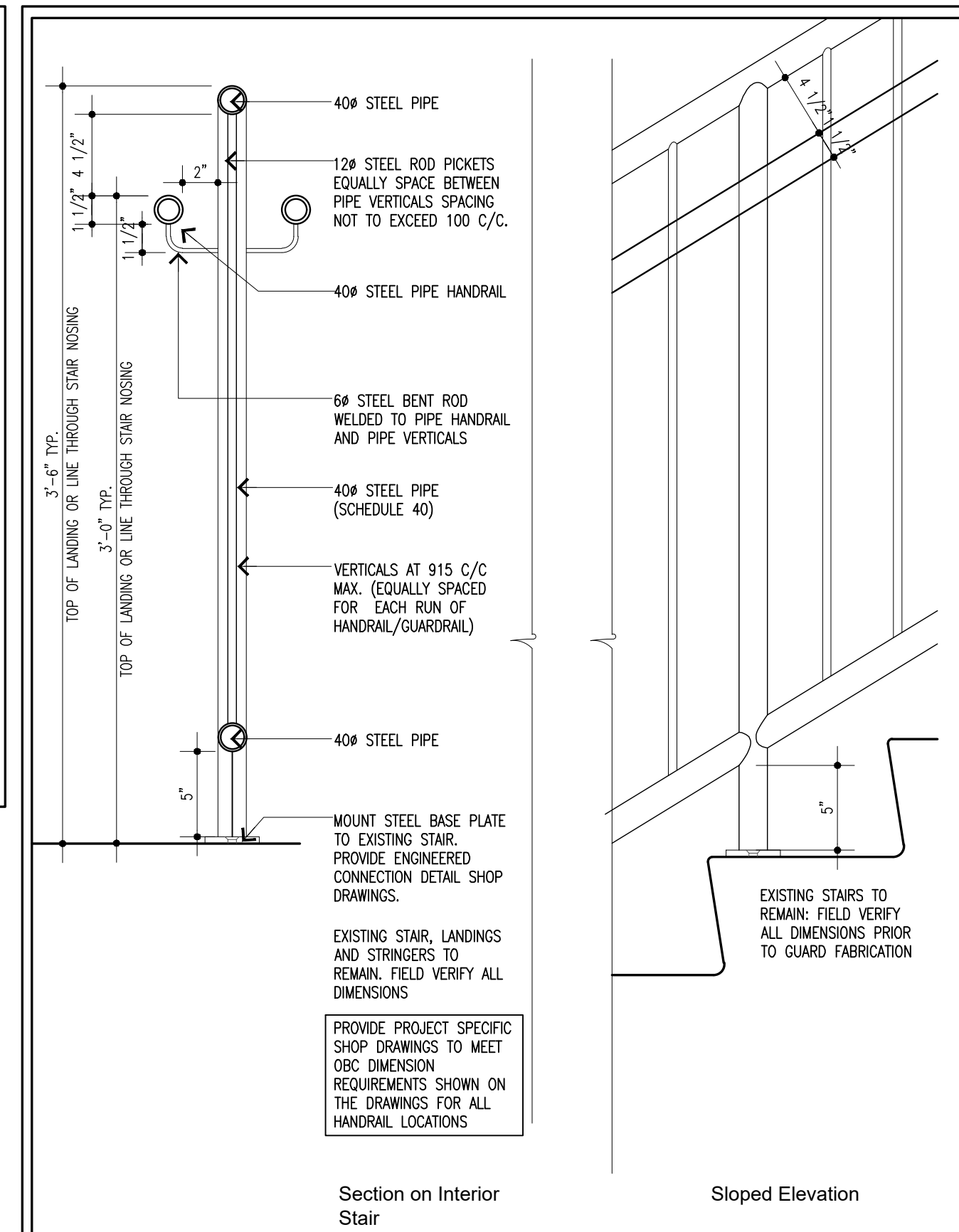
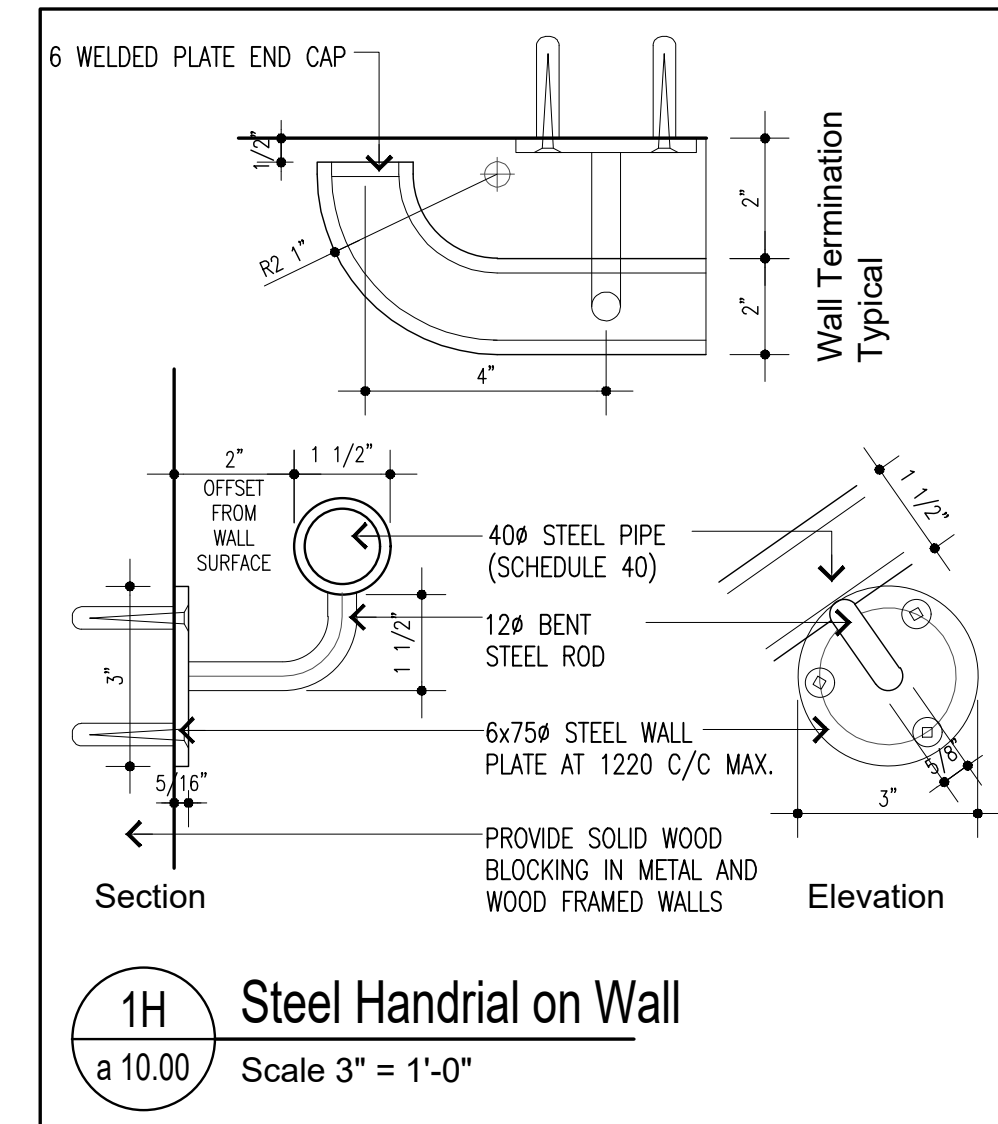
DRAWINGS PROVIDED FOR STAIR, HANDRAILS AND GUARDRAILS ARE DIAGRAMATIC AND INTENDED TO CONVEY THE GENERAL SCOPE OF WORK. STAIR DETAILER TO PROVIDE COMPLETE, JOB SPECIFIC, ENGINEERED, CODE COMPLIANT, STAMPED, SHOP DRAWINGS FOR APPROVAL PRIOR TO ASSEMBLY.

PROVIDE HANDRAIL EXTENSIONS TO TOP AND BOTTOM OF ALL HANDRAILS AS REQUIRED BY CODE.

FULLY WELD ALL CONNECTIONS.

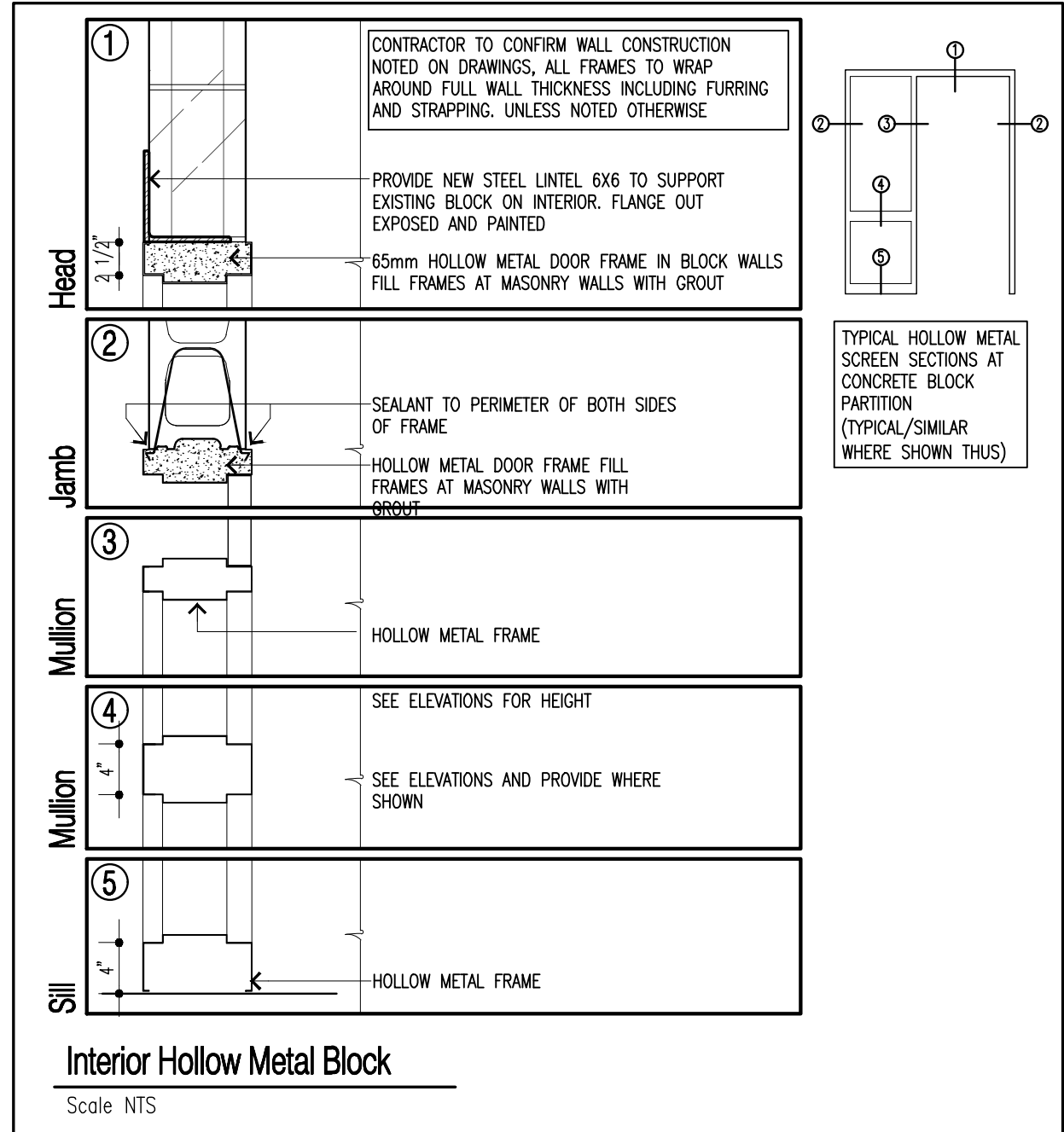
INTERIOR STAIRS AND STEEL GUARDRAILS/HANDRAILS - STEEL  
PAINTED  
SANDBLAST AND CLEAN SCALE FROM ALL STEEL. GRIND AND  
SAND SMOOTH, FREE FROM ALL WELD SPLATTER BLEMISHES,  
GRINDER MARKS AND THE LIKE. PROVIDE BODY FILLER WHERE  
REQUIRED. SHOP PRIME PAINT AND FIELD FINISH PAINT. FINAL  
FINISH TO BE FREE OF RUNS DRIPS AND SACS.

EXTERIOR STAIRS AND STEEL GUARDRAILS/HANDRAILS - GALVANIZED FINISH  
SANDBLAST AND CLEAN SCALE FROM ALL STEEL. PROVIDE WELDED STEEL FILLER. GRIND AND SAND SMOOTH, FREE FROM ALL WELD SPATTER BLEMISHES, GRINDER MARKS AND THE LIKE. PROVIDE HOT DIPPED GALVANIZED FINISH. FINISHED HANDRAILS SHALL BE FREE OF BURRS, PITS AND BUBBLES TO PROVIDE SMOOTH HANDRAIL TO THE TOUCH TO THE FULL LENGTH OF HANDRAIL.



drawing	Stair & Handrail Details	number <div>a10.00</div> 21026b	scale	revisions	issued for Tender & Construction 0. 2023-03-15	<div>Barrier Free Upgrades Our Lady of Fatima Catholic School 14 Strathcona St., POM 1K0, Chapeau Ontario for the Huron Superior Catholic District School Board</div> <div>project</div>	<div>IDEA</div> <div>INTEGRATED DESIGN ENGINEERING + ARCHITECTURE</div> <div>421 Bay Street, Suite 507, Sault Ste. Marie Ont. Ca.</div> <div>Not to be used for construction without written permission from the architect</div>
			<div>Varies</div> <div>date</div> <div>2023-03-15</div> <div>checked by</div> <div>C. Berkenbosch</div> <div>drawn by</div> <div>E. Lavallee</div>				





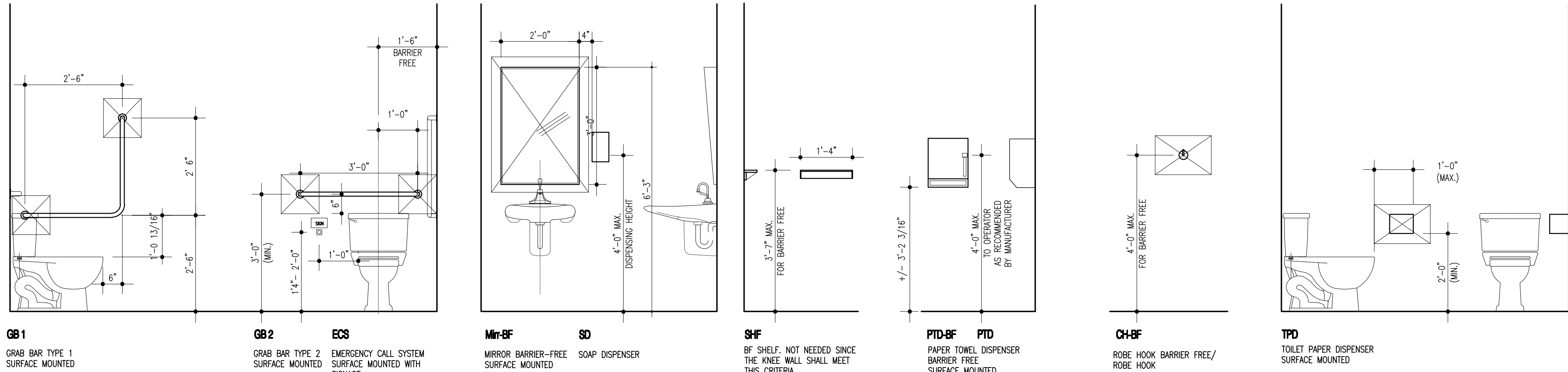
## Specialties General Notes

### GENERAL

- UNLESS OTHERWISE NOTED OR DETAILED MOUNT ACCESSORIES AS PER THE FOLLOWING INFORMATION.
- REFER TO ACCESSORIES SCHEDULE, PLANS, DETAIL PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
- ALL DIMENSIONS PROVIDED ON THE FOLLOWING DRAWINGS ARE FROM FACE OF FINISHED WALL/FLOOR/CEILING. REFER TO ROOM FINISH SCHEDULE FOR FINISHES OF EACH ROOM AND COORDINATE.
- MECHANICAL AND ELECTRICAL ITEMS SHOWN ARE DIAGRAMMATIC, REFER TO AND COORDINATE WITH MECHANICAL AND ELECTRICAL FOR ACTUAL SIZES WHERE REQUIRED.
- IN METAL STUD PARTITIONS PROVIDE 3/4" PLYWOOD BLOCKING MINIMUM 12" TALL AND WIDTH OF STUD SPACE FOR MOUNTING.

Scale 1/2"=1'-0"

### Washroom Specialties



## Door and Frame General Notes

### GENERAL

- WHERE NOT INDICATED OR OTHERWISE DIMENSIONS ALL SCREENS SHALL BE DIVIDED INTO EQUAL SECTIONS.

### FRAME GENERAL NOTES

- ALL HOLLOW METAL FRAMES SHALL BE WRAP AROUND TYPE UNLESS OTHERWISE NOTED OR DETAILED. CONTRACTOR SHALL REVIEW THE DRAWINGS, DETAILS AND PARTITION TYPES AND CONFIRM THROAT WIDTH REQUIRED INCLUDING ALL STRAPPING AND OTHER ITEMS. PROVIDE CUSTOM THROAT WIDTHS AS REQUIRED.
- UNLESS OTHERWISE NOTED OR DETAILED, ALL GLAZING SHALL BE INSTALLED ON "CORRIDOR" SIDE OF FRAMES.
- MAX. DIMENSIONS OF RATED SCREEN 12'-0" x 10'-0"
- MAXIMUM SIZE LIGHT IN FIRE SCREEN IN MASONRY OPENING 1296 SQ.IN. (9 SQ.FT.) NO DIMENSION EXCEEDING 54" (4'-6")
- MAXIMUM SIZE LIGHT IN FIRE SCREEN IN DRYWALL OPENING 800 SQ.IN. (5.55 SQ.FT.) NO DIMENSION EXCEEDING 42" (3'-6")

### Hollow Metal and Wood Doors

1

### Hollow Metal Door Frames

1b

## Barrier Free Upgrades Our Lady of Fatima Catholic School

16 11 00

### Door and Screen Schedule

Idea architects engineers

Ref.	Room	Leaves	Size (Imperial)	Type	Material	Finish	Glass	Type / Ref.	Material	Finish	Glass	Signage	Rating (min)	Door Louvre	Hardware	E/S	ECOS	P/O	Remarks	Revision
<b>Service Addition</b>																				
224-1	Meeting/Storage	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
223-1	Storage	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
222-1	Main Office	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
220-1	Principals Office	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
219-1	Stair No. 4	1	-	-	-	-	-	-	-	-	-	-	X	-	See Schedule				New Lever Hardware Only	
225-1	Corridor	2	-	-	-	-	-	-	-	-	-	-	X	-	See Schedule			X	New Power Operator to existing door.	
226-1	Univ. Washroom	1	7'-0" x 3'-2"	1	WD.SC	S&V.FF	-	1B	HM	PT	-	-	X	-	See Schedule	X	X	X		
202-1	Vestibule	2	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule			X	New Lever Hardware and New Panic Hardware	
201-1	Storage Room	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
11-1	Classroom	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
12-1	Classroom	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
14-1	Classroom	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
16-1	Classroom	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
17-1	Classroom	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
18-1	JK/SK Classroom	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
19-1	Staff Room	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
19b-1	V/R	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
20-1	Office	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
20b-1	Office	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
21-1	Office	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
308-1	Storage/Server	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
22b-1	AV/IT	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
30b-1	Storage	1	-	-	-	-	-	-	-	-	-	-	-	-	See Schedule				New Lever Hardware Only	
28a-1	Janitor	1	-	-	-	-	-	-	-	-	-	-	X	-	See Schedule				New Lever Hardware Only	

### Abbreviations (see also Specification)

HM	Hollow Metal	S&V.FF	Stain and Varnish Factory Finish	FRG	Fire Rated Glass
PT	Paint	WD.SC	Wood Solid Core		
<b>Special</b>					
Abbr.	Name	In Contract	Division	By Others, Tenant Security	Subcontract
P/O	Power Operator	Power Operator, and Push Button actuators & A/C power supply (see	087100		
		Power wiring connection and conduit	260000		
		Control conduit to pushbuttons and wiring	260000		
E/S	Electric Strike	Electric strike and associated power supply (see hardware schedule)	087100		
		Boxed section in door frame for electric strike	087100		
		Control wiring to EC control system for automatic door release	260000		
		Refer to electrical plans for additional information and			
ECS	Emergency Call /Release System	Emergency Call System including power operator, pushbuttons, call-button, door logic controller, surface mounted door contact and emergency call/annunciator unit (see hardware schedule)	087100		
		Line voltage power wiring connections and conduit to door	260000		
		Control conduit and wiring to pushbuttons, emergency button and back to door	260000		
		Refer to electrical plans for additional information and operational/commissioning	260000		

### Revisions

Rev #	Name	Date	Notes
END			

## Barrier Free Upgrades Our Lady of Fatima Catholic School

16 21 00

### Misc. Specialties Schedule

Idea architects engineers

Rm.#	Room Name	# BT	# GB1	# GB2	# Mirr	# Mirr-BF	# Mirr-W	# PTD	# PTD-BF	# RH	# RH-BF	# SD-BF	# SD	# SHF	# TPD	# WR	# WP	Remarks	Rev.
<b>Service Addition</b>																			
225	Universal Washroom		1	1				1	1	1	1	1	1	1	1				
217	Girls Washroom		1	1												1			
218	Boys Washroom		1	1													1		

### General Notes

- X refer to drawings for size and scope.
- A Install washroom accessories in locations and at heights shown in details in contract documents
- B Where no information is provided for location, confirm location on site with Consultant
- C GC to coordinate with supplier and provide solid wood backing behind all specialties including specialties Supplied By Owner.
- All specialties denoted in this schedule, are supplied and installed by Contractor unless specifically indicated otherwise.

### Abbreviations/Legend

Ref.	Name	Manufacturer	Remarks	Rev.
<b>Washroom</b>				
GB1	Grab Bar 1	See Spec.		
GB2	Grab Bar 2	See Spec.		
Mirr-BF	Mirror - Barrier Free	See Spec.		
PTD-BF	Paper Towel Dispenser - Barrier Free	See Spec.		
RH	Robe Hook	See Spec.		
RH-BF	Robe Hook - Barrier Free	See Spec.		
SD-BF	Soap Dispenser - Barrier Free	See Spec.		
SHF	Shelf	See Spec.		
TPD	Toilet Paper Dispenser	See Spec.		
<b>Other</b>				

### Revisions

Rev #	Name	Date	Notes
END			

Barrier Free Upgrades  
Our Lady of Fatima Catholic School  
14 Strathcona St., P0M 1K0, Chapleau Ontario  
for the Huron Superior Catholic District School Board

**Idea**  
INTEGRATED DESIGN  
ENGINEERING + ARCHITECTURE  
421 Bay Street, Suite 607, Sault Ste. Marie Ont. Ca.  
Tele: (705) 949-5291 • Email: info@integrateddesign.ca

Project  
Barrier Free Upgrades  
Our Lady of Fatima Catholic School  
14 Strathcona St., P0M 1K0, Chapleau Ontario  
for the Huron Superior Catholic District School Board

Drawings  
Door and Screen  
Types, Details  
& Specialties  
a12.00  
21026b

Scale  
Varies  
Date  
2023-03-15  
Checked by  
C. Berkenbosch  
Drawn by  
E. Lavallee

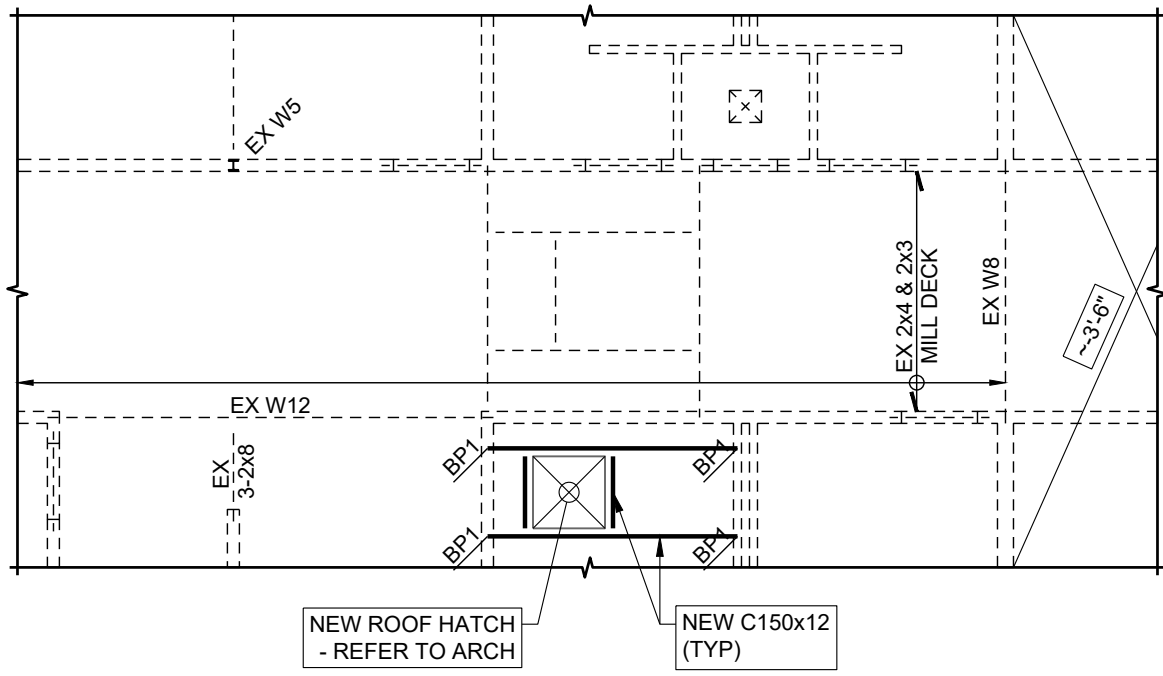
Revisions  
0, 2102-03-15  
Issued for Tender & Construction

Notes  
The contractor is to confirm all notes to the architect. It is the contractor's responsibility to coordinate all work with the architect and to ensure that all work is completed in accordance with the contract documents. The architect is not responsible for the contractor's interpretation of the contract documents. The architect is not responsible for the contractor's interpretation of the contract documents. The architect is not responsible for the contractor's interpretation of the contract documents.



STRUCTURAL WORK

1. GENERAL
- 1.1. COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
- 1.1.1. A BUILDING PERMIT IS REQUIRED FOR ALL STRUCTURAL WORKS UNLESS OTHERWISE NOTED BY THE CHIEF BUILDING OFFICIAL OR AUTHORITY HAVING JURISDICTION.
- 1.2. PROVIDE ALL MATERIAL AND LABOUR REQUIRED FOR THE COMPLETION OF THE WORK. BREAKDOWN OF WORK BY TRADE IS FOR GUIDANCE ONLY AND IS NOT NECESSARILY COMPLETE.
- 1.3. REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE CONTRACT DOCUMENTS PREPARED BY ALL CONSULTANTS PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
- 1.4. DO NOT SCALE THESE DRAWINGS.
- 1.5. COORDINATE ALL OPENINGS, SLEEVES AND EMBEDDED ITEMS IN STRUCTURE WITH THE CONTRACT DOCUMENTS PREPARED BY ALL CONSULTANTS. REPORT ANY CONFLICTS BEFORE PROCEEDING WITH THE WORK.
- 1.6. DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL CONSULTANT UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
- 1.7. TYPICAL DETAILS SHOW STRUCTURAL INTENT RATHER THAN ACTUAL CONDITIONS FOR THIS PROJECT.
2. SUBMITTALS
- 2.1. SUBMIT FOR REVIEW BEFORE THE START OF THE WORK. SUBMIT SHOP DRAWINGS IN UNLOCKED, PDF DOCUMENT FORMAT FOR:
- 2.1.1. STRUCTURAL STEEL (ERECTION DRAWINGS AND DETAILS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER)
- 2.2. SUBMIT SHOP DRAWINGS IN GENERAL CONFORMANCE WITH THE SEQUENCE OF CONSTRUCTION.
- 2.3. SHOP DRAWINGS ARE TO BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE CONSULTANT. SHOP DRAWINGS THAT DO NOT BEAR THE REVIEW STAMP OF THE CONTRACTOR WILL BE MARKED 'RESUBMIT' AND RETURNED WITHOUT BEING REVIEWED.
- 2.4. REVIEW OF SHOP DRAWINGS IS PERFORMED ON A RATIONAL SAMPLING BASIS FOR GENERAL CONFORMANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS PREPARED BY THE STRUCTURAL CONSULTANT. OUR REVIEW DOES NOT INCLUDE DETAILED CHECKING OF DIMENSIONS OR EXTENSIVE CHECKING OF CALCULATIONS FOR ELEMENTS ENGINEERED BY OTHERS AND DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 2.5. REVIEW OF SHOP DRAWINGS DOES NOT IMPLY ANY CHANGE IN ANY OTHER CONSULTANTS' OR PROFESSIONALS' RESPONSIBILITIES RELATED TO DESIGN OF SPECIFIC ITEMS AS OUTLINED BY THE SPECIFICATIONS.
- 2.6. ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW OF EACH SUBMISSION OF SHOP DRAWINGS. ALLOW MORE TIME WHEN LARGE QUANTITIES OF SHOP DRAWINGS ARE SUBMITTED.
- 2.7. MAKE CORRECTIONS REQUIRED BY PREVIOUS REVIEW BEFORE RESUBMITTING DRAWINGS. CLEARLY INDICATE ALL CHANGES AND ADDITIONS TO PREVIOUS SUBMISSION. DO NOT ADD NEW DETAILS TO DRAWINGS THAT HAVE BEEN STAMPED AS REVIEWED OR NOTED.
- 2.8. DO NOT COMMENCE FABRICATION UNTIL RETURNED SHOP DRAWINGS HAVE BEEN EXAMINED.
- 2.9. PROVIDE FINAL RECORD DRAWINGS AFTER ALL CORRECTIONS ARE MADE.
- 2.10. THE CONTRACTOR IS TO DEVELOP AND MAINTAIN A DETAILED QUALITY CONTROL PLAN ASSOCIATED WITH THE STRUCTURAL WORK. PROVIDE A COPY OF THE QUALITY CONTROL PLAN TO THE CONSULTANT WHEN REQUESTED. THE QUALITY CONTROL PLAN SHALL INCLUDE, BUT IS NOT LIMITED TO:
- 2.10.1. PROCEDURES FOR COLD AND HOT WEATHER CONSTRUCTION.
- 2.10.2. COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- 2.10.3. COMPLIANCE OF SUB-TRADE QUALIFICATIONS.
- 2.10.4. PROCEDURES FOR THIRD-PARTY / INDEPENDENT INSPECTION AND TESTING.
3. TEMPORARY WORKS
- 3.1. STRUCTURAL DRAWINGS SHOW THE INTENT OF THE COMPLETED STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE SCOPE, DESIGN AND ERECTION OF ALL TEMPORARY WORKS THAT ARE NECESSARY TO COMPLETE THE WORK. TEMPORARY WORKS MAY BE REQUIRED THAT ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
- 3.2. CONSTRUCTION LOADS ON THE STRUCTURE SHALL NOT EXCEED DESIGN LOADS INDICATED ON DRAWINGS.
- 3.3. DESIGN AND GENERAL REVIEW OF ALL TEMPORARY WORKS TO BE CARRIED OUT BY A PROFESSIONAL ENGINEER (LICENSED AND INSURED TO PRACTICE IN ONTARIO) RETAINED BY THE CONTRACTOR.
- 3.4. MAKE GOOD ALL EXISTING WORK DISTURBED BY TEMPORARY CONSTRUCTION OPERATIONS.
4. EXISTING STRUCTURES
- 4.1. VERIFY EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO CONSTRUCTION.
- 4.2. EXISTING STRUCTURAL INFORMATION IS BASED UPON DRAWINGS PREPARED BY FABBRO & TOWNEND ARCHITECTS, DATED OCTOBER 1960, AND SWR CONSULTANTS LTD., DATED JANUARY 1972.
- 4.3. TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING STRUCTURES DURING CONSTRUCTION.
- 4.4. EXISTING CONDITIONS ARE ASSUMED. REPORT ANY VARIATIONS TO THE STRUCTURAL CONSULTANT BEFORE PROCEEDING WITH THE WORK.
5. INSPECTION AND TESTING
- 5.1. COOPERATE WITH CONSULTANTS DOING GENERAL REVIEW AND ALL INSPECTION AND TESTING AGENCIES. PROVIDE SAFE ACCESS TO WORK AREAS AS REQUIRED AND ASSIST IN THEIR WORK. PROVIDE REASONABLE NOTICE (NOT LESS THAN 48 HOURS) PRIOR TO CONCEALING ANY WORK THAT REQUIRES INSPECTION, REVIEW, OR TESTING. SCHEDULE THIS WORK TO OCCUR DURING NORMAL BUSINESS HOURS. ENSURE THAT THE WORK TO BE REVIEWED IS SUBSTANTIALLY COMPLETE IN TIME FOR THE REVIEW.
- 5.2. THE STRUCTURAL CONSULTANT WILL PROVIDE GENERAL REVIEW OF THE WORK DESIGNED BY THE CONSULTANT ON A RATIONAL SAMPLING BASIS IN ACCORDANCE WITH THE GUIDELINE: "PROFESSIONAL ENGINEERS PROVIDING GENERAL REVIEW OF CONSTRUCTION AS REQUIRED BY THE ONTARIO BUILDING CODE" AS PREPARED BY PROFESSIONAL ENGINEERS ONTARIO. THESE REVIEWS DO NOT ALLEVIATE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS WITH AN APPROPRIATE QUALITY CONTROL PROGRAM.
- 5.3. ENSURE THAT GENERAL REVIEW IS PROVIDED FOR ALL STRUCTURAL WORK DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR. GENERAL REVIEW TO BE BY THE ENGINEER RESPONSIBLE FOR THE DESIGN OR BY ANOTHER PROFESSIONAL ENGINEER LICENSED AND INSURED IN ONTARIO. SUBMIT GENERAL REVIEW REPORTS FOR REVIEW.
6. STRUCTURAL STEEL
- 6.1. CONFORM TO CAN/CSA S16: "LIMIT STATES DESIGN OF STEEL STRUCTURES"
- 6.2. FABRICATOR SHALL BE CERTIFIED BY THE CANADIAN WELDING BUREAU UNDER REQUIREMENTS OF CSA W47.1, DIVISION 1 OR 2.
- 6.3. MATERIALS:
- 6.3.1. CHANNELS, ANGLES: CAN/CSA G40.21, 300W
- 6.3.2. PLATES, BARS: CAN/CSA G40.21, 300W
- 6.3.3. ANCHOR RODS: CAN/CSA G40.21, 300W
- 6.3.4. BOLTS: ASTM A325M, UNLESS NOTED
- 6.3.5. WELDING: CAN/CSA W59
- 6.3.6. PREMIXED GROUT TO BE NON-SHRINK, 40 MPa MINIMUM AT 28 DAYS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS.
- 6.4. SUBMIT SHOP DRAWINGS INCLUDING ERECTION DRAWINGS AND SHOP DETAIL DRAWINGS. ALL SHOP DRAWINGS TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN ONTARIO RETAINED BY THE CONTRACTOR TO BE RESPONSIBLE FOR THE DESIGN OF ALL CONNECTIONS. SHOW ON STEEL SHOP DRAWINGS: MEMBER SIZES, MATERIAL SPECIFICATIONS, SPLICES, AND SHOP / FIELD CONNECTIONS.
- 6.5. DESIGN CONNECTIONS TO CONFORM TO CAN/CSA S16 TO RESIST THE REACTION RESULTING FROM THE ULTIMATE FACTORED MOMENT RESISTANCE OF THE MEMBER. USE DOUBLE-HEADER ANGLES AND HIGH STRENGTH BOLTS. SINGLE-HEADER CONNECTIONS ARE ONLY PERMITTED ON W200 OR SMALLER SECTIONS.
- 6.6. DO NOT CUT HOLES OR OTHERWISE MODIFY STRUCTURAL MEMBERS ON SITE.
- 6.7. SHOP PAINTING
- 6.7.1. CLEAN ALL MEMBERS TO SSPC-SP2 HAND TOOL CLEANING UNLESS OTHERWISE NOTED.
- 6.7.2. PREPARE SURFACE AND PROVIDE SHOP PAINT TO CISC/CPMA STANDARD 1-73a.
- 6.7.3. TOUCH-UP PAINT AFTER ERECTION.
7. DESIGN DATA
- 7.1. STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012 SUPPLEMENTED BY THE USER'S GUIDE - NBC 2015 STRUCTURAL COMMENTARIES (PART 4 OF DIVISION B).
- 7.2. CLIMATIC LOCATION: CHAPLEAU, ONTARIO
- 7.3. IMPORTANCE CATEGORY: N/A (EXISTING STRUCTURE)
- 7.4. UNLESS OTHERWISE NOTED, DESIGN LOADS SHOWN ARE SPECIFIED (UNFACTORED). FOR POINT LOADS, IF ONLY ONE LOAD IS GIVEN, CONSIDER IT LIVE LOAD.
- 7.5. SNOW LOADS
- 7.5.1. SPECIFIED SNOW LOAD =  $Is [ S_e (Cb Cw Cs Ca) + Sr ] = (1.0) [ (3.6) (0.8) (1.0) (1.0) (1.0) + (0.4) ] = 3.3 \text{ kPa (69 PSF)}$





GENERAL MECHANICAL NOTES

1. CONFORM TO INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS AND GENERAL REQUIREMENTS
  2. THIS SECTIONS SHALL APPLY TO DIVISIONS 21, 22 & 23
  3. BEFORE SUBMITTING TENDERS, EXAMINE SITE, AND ALL DRAWINGS. EXTRAS WILL NOT BE ALLOWED FOR FAILURE TO DO SO
  4. PROVIDE ALL LABOUR, MATERIALS AND EQUIPMENT NECESSARY TO EXECUTE THE WORK SHOWN AND DESCRIBED. INSTALLATION OF MATERIALS SHALL MEET ALL APPLICABLE PROVINCIAL, FEDERAL AND MUNICIPAL REQUIREMENTS (NBC AND CBC STANDARDS)
  5. OBTAIN PERMITS AND PAY ALL FEES FOR WORK AND REQUIRED INSPECTIONS
  6. MAINTAIN LIABILITY INSURANCE TO PROTECT OWNER AND THE CONTRACTOR FROM ANY AND ALL CLAIMS UNDER THE WORKER'S COMPENSATION ACT
  7. ALL MATERIALS SHALL CONFORM TO CSA, HEPC AND CEC REQUIREMENTS AND SHALL BEAR CSA LABEL. GAS FIRED EQUIPMENT SHALL BEAR CSA LABEL
  8. TEMPORARY LIGHT, POWER AND WATER BY GENERAL CONTRACTOR
  9. PROVIDE TEMPORARY BUILDINGS AND MATERIAL STORAGE AS REQUIRED AND BE RESPONSIBLE FOR ANY LOSS OR DAMAGE THERETO
  10. SUBMIT SAMPLES OF MATERIALS WHEN REQUIRED
  11. SUBMIT SHOP DRAWINGS FOR REVIEW COVERING MAJOR MANUFACTURED ITEMS, IE. PLUMBING FIXTURES, ETC.
  12. SUPPLY AND LOCATE ALL BASES, SUPPORTS, SLEEVES, CURBS, ETC. REQUIRED FOR THIS WORK. FLASHING BY ROOF TRADES. CONTROL FLASHING BY THIS CONTRACTOR
  13. ALL POWER WIRING BY ELECTRICAL CONTRACTOR, CONTROL AND INTERLOCK WIRING BY CONTRACTOR
  14. DIVISION 21 TO SUPPLY ALL NECESSARY ACCESS DOORS FOR MECHANICAL EQUIPMENT. TURN OVER TO DIVISION 9 FOR INSTALLATION
  15. EXCAVATION AND BACK FILLING FOR MECHANICAL WORK WILL BE CARRIED OUT BY DIV. 21.
  16. PIPE HANGERS SHALL BE CLEVIS SPLIT TYPE WITH MILD STEEL RODS. FOR COPPER PIPE USE PLASTIC INSERTS. DO NOT SUPPORT EQUIPMENT OR PIPING FROM UNDER ROOF DECK WITHOUT PERMISSION FROM ARCHITECTS. SUPPLY AND INSTALL NECESSARY STEEL TO TRANSFER LOAD TO STRUCTURAL MEMBERS
  17. ALL DISSIMILAR METAL (STEEL, COPPER ETC.) SHALL BE SEPARATED USING GASKETS OR ENPOCO ELECTRIC FITTINGS
  18. INSTALL CHROME PLATED ESCUTCHEONS WHERE BRANCH PIPE PASSES THROUGH FINISHED SURFACE
  19. REVIEW WITH THE GENERAL AND ALL TRADES PRIOR TO STARTING CONSTRUCTION TO DISCUSS THE DRAWINGS AND EXISTING CONDITIONS AND COORDINATE ROUTING AND SPACE ALLOCATIONS OF SERVICES.
  20. KEEP ACCURATE RECORD OF 'AS-BUILT' DRAWINGS AND SUBMIT THESE BEFORE FINAL CERTIFICATE OF COMPLETION. BURIED SERVICES MUST BE DIMENSIONED
  21. ALL SURFACES MUST BE LEFT CLEAN AND SMOOTH, READY FOR PAINTING BY GENERAL TRADES
  22. IDENTIFY ALL PIPING. USE STENCILS OR COLOUR CODES AND DIRECTIONAL ARROWS
  23. ON COMPLETION OF THE WORK, REMOVE FROM THE PREMISES ALL TOOLS, DEBRIS, SURPLUS AND WASTE MATERIALS RESULTING FROM OPERATIONS UNDER THIS SECTION. CLEAN ALL EQUIPMENT AND LEAVE ALL ITEMS IN PERFECT ORDER READY FOR OPERATION
  24. AFTER ACCEPTANCE, INSTRUCT OWNER IN EQUIPMENT OPERATION, AND PROVIDE HIM WITH OPERATING AND MAINTENANCE MANUALS STANDARDS AND EXTENDED WARRANTY DOCUMENTS, INSPECTION CERTIFICATES AND COPIES OF SHOP DRAWINGS OF INSTALLED EQUIPMENT
  25. THE CONTRACTOR SHALL, BEFORE FINAL PAYMENT, MAKE, GUARANTEE ALL MATERIALS AND WORKSMANSHIP SUPPLIED BY HIM IN THE PERFORMANCE OF THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE AND SHALL, WHEN CALLED UPON, MAKE GOOD WITHOUT FURTHER COST TO THE OWNER SUCH DEFECTS AS MAY APPEAR WITHIN THIS PERIOD.

INSULATION	
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- |    |   |
|----|---|
| 1. | SEE SPECIFICATIONS SECTION 21 07 19 - THERMAL INSULATION FOR PIPING |
| 2. | MITRE INSULATION AT ALL ELBOWS                                      |

## PLUMBING AND DRAINAGE INSIDE THE BUILDING

1. ALL WORK SHALL BE EXECUTED BY LICENSED PLUMBERS
2. ALL PLUMBING AND DRAINAGE WORK SHALL BE INSTALLED AS REQUIRED BY ONTARIO PLUMBING CODE AND ONTARIO BUILDING CODE, REVISED TO DATE, AND SHALL MEET THE REQUIREMENTS OF ALL PROVINCIAL AND MUNICIPAL AUTHORITIES HAVING JURISDICTION
3. INCLUDE ALL PIPING, FITTINGS AND EQUIPMENT SHOWN ON DRAWINGS OR DESCRIBED IN SPECIFICATIONS. ALL ITEMS NOT MENTIONED BUT UNDERSTOOD TO BE NECESSARY TO COMPLETE THE PLUMBING SYSTEM SHALL BE INCLUDED.
4. ABOVE GROUND WATER PIPING SHALL BE TYPE 'L' COPPER C/W 95 / 5 SOLDER JOINTS. PIPING TO BE CERTIFIED TO CSA STANDARD ASTM B88 STANDARD
5. BURIED WATER PIPING SHALL BE COPPER TYPE 'K'.
6. ALL ABOVE GROUND VENT PIPING SHALL BE DWV COPPER, GALVANIZED STEEL OR PLENUM RATED PVC
7. ALL BURIED VENT PIPING MAY BE ABS PLASTIC SOLVENT WELD
8. VALVES UP TO 50mm SHALL BE BRONZE BALL VALVES
9. SUPPLY AND INSTALL ALL PLUMBING FIXTURES. CLEAN OUTS, HOSE BIBBS, FLOOR DRAINS, COMBINATION DRAINS, ROOF DRAINS, ETC. AS SHOWN ON DRAWINGS AND AS REQUIRED BY THE ONTARIO BUILDING CODE
10. CLEAN OUTS SHALL BE INSTALLED AS REQUIRED BY CODE AND WHERE SHOWN AND SHALL SUIT FLOORING MATERIAL
11. SEE FIXTURE SCHEDULE FOR PLUMBING FIXTURE TYPES
12. SUPPLY AND INSTALL WHEEL HANDLE OR SCREW FIXTURE STOP VALVE ON THE HOT AND COLD WATER SUPPLY TO EVERY FIXTURE ON THE JOB, IN ADDITION TO THE VALVE OR FAUCET ON THE FIXTURE ITSELF
13. PROTECT ALL FIXTURES UNTIL HANDED OVER TO THE OWNER. ALL FIXTURES SHALL BE C/W NECESSARY TRIM, TRAP SUPPLIES, STOPS, TAIL PIECES, TRAPS, GASKETS, ETC.
14. ALL SANITARY DRAINAGE PIPING TO BE INSTALLED AT MINIMUM 2% SLOPE IN THE DIRECTION OF FLOW, OR AS NOTED ON DRAWINGS
15. SETUP, TEST, AND PROVIDE REPORT CONFIRMING ALL THERMOSTATIC MIXING VALVES ARE FUNCTIONING PROPERLY.
16. ALL CORE DRILLING OF SLABS FOR INSTALLATION OF PIPING SHALL BE BY DIVISION 21.
17. PROVIDE AUTOMATIC TRAP SEAL PRIMERS FOR ALL FLOOR DRAINS, HUB DRAINS, CONDENSATE DRAINS, FUNNEL FLOOR DRAINS, ETC. FROM NEAREST PLUMBING FIXTURE

## HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)

1. SUPPLY AND INSTALL ALL VENTILATION AND AIR HANDLING EQUIPMENT AS SHOWN ON THE DRAWINGS
2. INCLUDE FOR STARTUP OF ALL EQUIPMENT
3. ADJUST ALL FAN SPEEDS TO DELIVER SHOWN AIR QUANTITIES. INCLUDE NECESSARY SPARE BELTS AND PULLEYS FOR FIELD ADJUSTMENT
4. PROVIDE AN AIR BALANCING REPORT VERIFYING THAT SUPPLY AIR AND EXHAUST AIR SYSTEMS ARE BALANCED TO PROVIDE DESIGN AIR FLOWS. SUBMIT REPORT FOR REVIEW AND APPROVAL. (QUANTITY TO BE AS NOTED ELSEWHERE)
5. SUPPLY AND INSTALL DUCTWORK AS INDICATED ON DRAWINGS. DUCTWORK SHALL BE FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH LATEST ASHRAE AND SMACNA STANDARDS AND SHALL BE MANUFACTURED OF GALVANIZED STEEL UNLESS SPECIFICALLY NOTED OTHERWISE
6. ALL EXPOSED GRILLES TO BE INSTALLED AFTER THE CEILING/STRUCTURE/DUCTWORK IS PAINTED OUT UNLESS OTHERWISE NOTED
7. INSTALL MANUAL BALANCING DAMPERS AT ALL BRANCH TAKEOFFS AND AS INDICATED ON THE DRAWINGS
8. ALL MANUAL VOLUME DAMPERS LARGER THAN 300x300mm TO BE OPPOSED BLADE
9. ALL CIRCULAR DUCT TAKEOFFS FROM RECTANGULAR DUCTWORK TO BE CWV VOLUME DAMPER
10. PROVIDE SMALL ARC TURNING VANES IN DUCT ELBOW WHERE CENTRE LINE OF RADIUS IS LESS THAN 1-1/2 TIMES THE TURNING DIMENSIONS OF THE DUCT. ACCEPTABLE MANUFACTURERS: DURODYNE, TUTTLE AND BAILEY
11. APPROVED FLEXIBLE DUCTWORK MAY BE USED FOR RUN OUTS TO DIFFUSERS, MAXIMUM LENGTH 1830mm, EXCEPT WHERE DUCTWORK IS INTENDED TO BE EXPOSED
12. DUCT SIZE MAY BE CHANGED PROVIDING EQUIVALENT AIR FLOW FRICTIONAL LOSS IS MAINTAINED. MAXIMUM WIDTH TO DEPTH DIMENSION SHALL NOT EXCEED 4:1

## GENERAL REMOVALS NOTES

1. DESIGNATED SUBSTANCES MAY BE PRESENT WITHIN THE CONSTRUCTION ZONE. REFER TO THE OWNERS DESIGNATED SUBSTANCE SURVEY AND SECTION 02 22 00 HAZARDOUS MATERIAL ABATEMENT.
2. LOCATIONS AND ROUTING OF ALL EXISTING EQUIPMENT AND SERVICES SHOWN ARE APPROXIMATE BASED ON VISUAL INSPECTION AND INFORMATION AVAILABLE FROM PREVIOUS OWNERS DRAWINGS. THE CONTRACTOR WILL BE REQUIRED TO FIELD VERIFY ALL EQUIPMENT AND SERVICES WITHIN THE REMOVAL AREA. PREPARE A DETAILED SCHEDULE FOR REVIEW AND APPROVAL BY THE OWNER.
3. CONTRACTOR SHALL REVIEW ALL EQUIPMENT AND FIXTURES NOTED FOR REMOVAL WITH THE OWNER PRIOR TO CONSTRUCTION START TO IDENTIFY WHICH ITEMS THE OWNER WISHES TO BE TURNED OVER AFTER DISCONNECTION. THE CONTRACTOR WILL REMOVE AND DISPOSE OF ALL REMAINING ITEMS IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.
4. REMOVAL OF ALL EQUIPMENT AND SERVICES NOTED WITHIN THESE DRAWINGS MUST BE COORDINATED WITH OTHER TRADES TO ENABLE SAFE REMOVAL AND ASSOCIATED PATCHING AND REPAIR WORK.
5. WHERE REMOVALS ARE NOTED THAT WILL REQUIRE A SYSTEM SHUT DOWN IMPACTING SPACES BEYOND THE CONSTRUCTION ZONE (IE, DUCTWORK, PIPING, SERVICES, ETC.) THE CONTRACTOR WILL NEED TO PREPARE A DETAILED SCHEDULE FOR REVIEW AND APPROVAL BY THE OWNER. THE SUBMITTAL WILL NEED TO INCLUDE AT A MINIMUM: REQUESTED SHUT DOWN WORK PLAN AND TIMES, EMERGENCY CONTACT DETAILS, ALL SERVICES AND SPACES IMPACTED BY THE SHUT DOWN, ANTICIPATED SHUT DOWN DURATION, ANY IMPACTS TO ADJACENT OCCUPANCIES, RISKS AND MITIGATION MEASURES.
6. BUILDING SYSTEMS SERVICING THE CONSTRUCTION AREA ARE EXPECTED TO EXIST WITHIN THE CEILING AND/OR WALLS THAT HAVE NOT BEEN IDENTIFIED ON THE DRAWINGS AS THE LOCATIONS ARE CURRENTLY UNKNOWN. WHEN SELECTIVE DEMOLITION OF THE CEILINGS AND WALLS IS COMPLETE, THE MECHANICAL CONTRACTOR SHALL IDENTIFY ANY SERVICES NOT CURRENTLY NOTED ON THE DRAWINGS (DOMESTIC PIPING, SANITARY/VENT STACKS, TRIM DRAINS, HYDRONIC PIPING, DUCTWORK, CONTROLS CABINETS ETC). PREPARE A RED LINE MARK UP OF THE SERVICES WITHIN THE CONSTRUCTION AREA AND IDENTIFY ANY THAT MAY INTERFERE WITH THE PROPOSED RENOVATION AND ANY PROPOSED REVISIONS/RELOCATION FOR REVIEW WITH THE OWNER. NO WORKING OR PIPING INTENDED FOR REUSE AS PART OF THIS PROJECT CAN BE TEMPORARILY CAPPED AND APPROVED PRIOR TO PROCEEDING. ANY SERVICES THAT ARE REQUIRED TO REMAIN WILL NEED TO BE IDENTIFIED, PROTECTED THROUGHOUT CONSTRUCTION AND THE CONTRACTOR WILL ADD THIS INFORMATION TO THE REDLINE AS BUILTS COMPLETE WITH SERVICE TYPE, SIZE AND LOCATION.
7. WHERE APPLICABLE, MECHANICAL CONTRACTOR SHALL DECOMMISSION, DRAIN, REMOVE AND DISPOSE OF ALL SANITARY, VENT, DOMESTIC (HOT AND COLD) WATER PIPING ASSOCIATED WITH FIXTURES NOTED FOR REMOVAL. ALL PIPING SHALL BE REMOVED AND CAPPED AT THE MANS TO AVOID DEAD END CONDITIONS OF PIPING INTENDED FOR REUSE AS PART OF THIS PROJECT CAN BE TEMPORARILY CAPPED WITHIN THE SPACE COMPLETE WITH ISOLATION VALVES FOR FUTURE EXPANSION. ALL CAPPED SECTIONS TO BE NOTED ON THE AS BUILT DRAWINGS.
8. BUILDING HVAC SYSTEMS SHALL NOT BE USED DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING OR VENTILATION. COORDINATE THE SHUT DOWN AND/OR TEMPORARY CAPPING OF ALL EXISTING SYSTEMS WITHIN THE CONSTRUCTION ZONE.
9. ALL OPENINGS AND VOIDS LEFT BY THE REMOVAL OF EXISTING EQUIPMENT, PIPING, DUCTS, PIPING ETC MUST BE PROPERLY PATCHED AND REPAIRED TO MATCH ADJACENT CONSTRUCTION ASSEMBLIES AND MAINTAIN FIRE RATINGS WHERE APPLICABLE. COORDINATE ALL PATCHING REQUIRED WITH THE GENERAL CONTRACTOR.
10. ALL REMOVED, UNUSED, UNCONNECTED/REDUNDANT PLUMBING OR MECHANICAL EQUIPMENT OR SERVICES IDENTIFIED WITHIN THE CONSTRUCTION AREA ARE TO BE REMOVED OR CUT BACK AND CAPPED AT THE MAINS.

## EQUIPMENT SCHEDULE NOTES

- |    |  |
|----|--|
| 1. | THE DESIGN IS BASED ON THE PERFORMANCE, CAPACITIES, DIMENSIONS, ELECTRICAL REQUIREMENTS AND PHYSICAL CONFIGURATIONS OF THE FIRST LISTED PRODUCTS.  |
| 2. | OTHER APPROVED PRODUCTS AND MANUFACTURERS THAT ARE LISTED IN THE SCHEDULES OR SPECIFICATIONS ARE MANUFACTURERS AND/OR PRODUCTS WHICH MEET THE REQUIRED STANDARD OF PERFORMANCE, QUALITY OF MATERIAL AND WORKMANSHIP. HOWEVER, CONFIRMATION THAT PRODUCT IS COMPATIBLE WITH THE DESIGN AS PRESENTED (UNIT STYLE, MOUNTING/CLEARANCE REQUIREMENTS, PERFORMANCE CAPACITIES, AND PIPE SIZING/LAYOUT) IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. |
| 3. | THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR AND COVER ALL COSTS AND LABOUR IN CASES WHERE A MANUFACTURER AND/OR PRODUCT OTHER THAN THE FIRST LIST PRODUCT IS SELECTED AND INDUCES REVISIONS RELATED TO LABOUR, MATERIAL, PIPING, CONNECTIONS, OR INVOLVES CHANGES IN COSTS FOR OTHER RELATED TRADES. THE GENERAL CONTRACTOR OR THE OWNER, ALL REVISIONS TO COSTS AND WORK SHALL BE CAPTURED IN THE TENDER PRICE.                              |
| 4. | REFER TO DIVISION 26 FOR SCOPE OF WORK RELATED TO SUPPLY AND INSTALL OF STARTERS, DISCONNECTS, CONTROLS, ETC. FOR MECHANICAL EQUIPMENT.  |
| 5. | UNLESS A COMPONENT IS SPECIFICALLY NOTED TO BE SUPPLIED BY ANOTHER DIVISION, ALL COMPONENTS AND ACCESSORIES SHALL BE PROVIDED BY MECHANICAL FOR A COMPLETE INSTALLATION.   |

## PLUMBING FIXTURES SCHEDULE

TAG	FIXTURE TYPE	FIXTURE SPECIFICATION
WC-1	WATER CLOSET - ADA COMPLIANT	<p>ZURN "HET CONCEALED, ELONGATED WALL HUNG FLUSH VALVE TOILET", 17" RM HEIGHT ADA COMPLIANT, SIPHON JET FLUSHING ACTION, ELONGATED FRONT RIM WITH 1-1/2" BACK SPUD CONNECTION, MODEL #Z5817-BWL, STANDARD WHITE, LOW CONSUMPTION (1.6 GPF), C/W:</p> <ul style="list-style-type: none"> <li>• SLOAN CONCEALED, SENSOR ACTIVATED #Z5041 MODEL WATER CLOSET FLUSHMETER (1.28 GPF) WITH TRUE MECHANICAL OVERRIDE BUTTON, ENCLOSED BEHIND A 13 1/2" X 13" WALL FRAME WITH STAINLESS STEEL ACCESS PANEL, (MODEL #152-S-2 TWO SWB) MICROPLUMB PRODUCTS 50 VA BOX MOUNT TRANSFORMER (MODEL HEL-154) TO OPERATE UP TO 10 WATER CLOSET OR URINAL (ANY COMBINATION) FLUSHMETERS (SEE ELECTRICAL DRAWING FOR 120V POWER SUPPLY LOCATION), DIV. 22 CONTRACTOR TO SUPPLY TRANSFORMERS AS REQUIRED AND RUN ALL NECESSARY LOW VOLTAGE WIRING TO FLUSHMETERS, DIV. 25 CONTRACTOR TO CONNECT TRANSFORMER TO 120V SUPPLY.</li> <li>• ZURN COMMERCIAL HEAVY DUTY ELONGATED TOILET SEAT #Z5955S-EL ELONGATED, WHITE, OPEN FRONT TOILET SEAT, WITH COVER AND STAINLESS STEEL CHECK HINGE.</li> <li>• DIV. 22 TO PROVIDE WATTS DRAINAGE PRODUCTS INDUSTRY STANDARD SINGLE ADJUSTABLE (VERTICAL OR HORIZONTAL) WATER CLOSET CARRIER TO SUIT FIXTURE LOCATION (CONTRACTOR TO DETERMINE APPROPRIATE CARRIER).</li> </ul>
L-1	LAVATORY - ADA COMPLIANT	<p>AMERICAN STANDARD (MODEL# 0954.040EC) MURRO WALL HUNG LAVATORY, VITREOUS CHINA, BARRIER FREE, C/W:</p> <ul style="list-style-type: none"> <li>• 0053 (02EC) VITREOUS CHINA SHPOUD</li> <li>• FAUCET HOLES ON 4" (102mm) CENTERS WITH OVERFLOW</li> <li>• BARRIER FREE COMPLIANCE</li> <li>• MOEN COMMERCIAL FAUCET (MODEL# 8800) TWO-HANDLE, ABOVE DECK FAUCET C/W:</li> <li>• METAL CONSTRUCTION WITH CHROME PLATED FINISH</li> <li>• 1/2" IPS CONNECTIONS</li> <li>• 4" WRIST BLADE STYLE HANDLES WITH HOT &amp; COLD COLOUR INDICATORS</li> <li>• 1/4 TURN TO OPEN</li> <li>• FLOW IS LIMITED TO 1.2 GPM AT 60 PSI</li> <li>• 1224 CARTRIDGE DESIGN WITH NONMETALLIC AND STAINLESS STEEL DESIGN</li> <li>• BARRIER FREE COMPLIANCE</li> <li>• WATTS UNDERSINK GUARDIAN THERMOSTATIC MIXING VALVE (USG-P-M1)</li> </ul>
FD-1	FLOOR DRAIN	<p>ROUND - MIFAB FLOOR DRAIN WITH NICKEL BRONZE ROUND STRAINER, (MODEL #F1100-1) C/W 5" STRAINER, 3" PIPE, 1/2" TRAP SEAL PRIMER, COORDINATE FLOOR DRAIN TYPE TO CORRESPOND WITH FLOOR TYPE. REFER TO ROOM FINISH SCHEDULE. PROVIDE MEMBRANE CLAMP FOR MEMBRANE FLOORS WHERE REQUIRED.</p> <p>SQUARE - MIFAB FLOOR DRAIN WITH HEAVY DUTY NICKEL BRONZE SQUARE STRAINER, (MODEL #F1000-S-3) C/W 6X6" STRAINER, 3" PIPE, 1/2" TRAP SEAL PRIMER, COORDINATE FLOOR DRAIN TYPE TO CORRESPOND WITH FLOOR TYPE. REFER TO ROOM FINISH SCHEDULE. PROVIDE MEMBRANE CLAMP FOR MEMBRANE FLOORS WHERE REQUIRED.</p>
CO	CLEANOUTS	ZURN ZN-1602 FLOOR CLEANOUTS. COORDINATE CLEANOUT TYPE TO CORRESPOND WITH FLOOR TYPE.


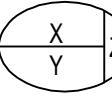

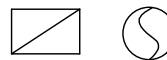








NOTE: SEE ARCHITECTURAL MILLWORK AND SPECIALTIES DRAWINGS FOR TYPICAL MOUNTING HEIGHTS FOR FIXTURES. CONTRACTOR TO PROVIDE MOCK-UP OF ALL PLUMBING FIXTURES PRIOR TO INSTALLATION. COORDINATE ALL MOUNTING HEIGHTS AND LOCATIONS OF FIXTURES WITH SPECIALTY MILLWORK AND EQUIPMENT INCLUDING GRAB BARS.

## AIR TERMINAL SCHEDULE

TAG	DESCRIPTION	MODEL / SERIES	CAPACITY (CFM)	MATERIAL	FINISH	REMARKS
R1	LAY-IN EGG CRATE RETURN GRILLE, T-BAR	EH PRICE 80 24x6" / 80 / CH / B12	-	ALUMINUM	WHITE	SIZES AS INDICATED ON m4 SERIES DRAWINGS

NOTES  
1. STANDARD OF ACCEPTANCE: NAILOR, EH PRICE, TITUS, KRUEGER, METALAIRE













LEGEND - HVAC

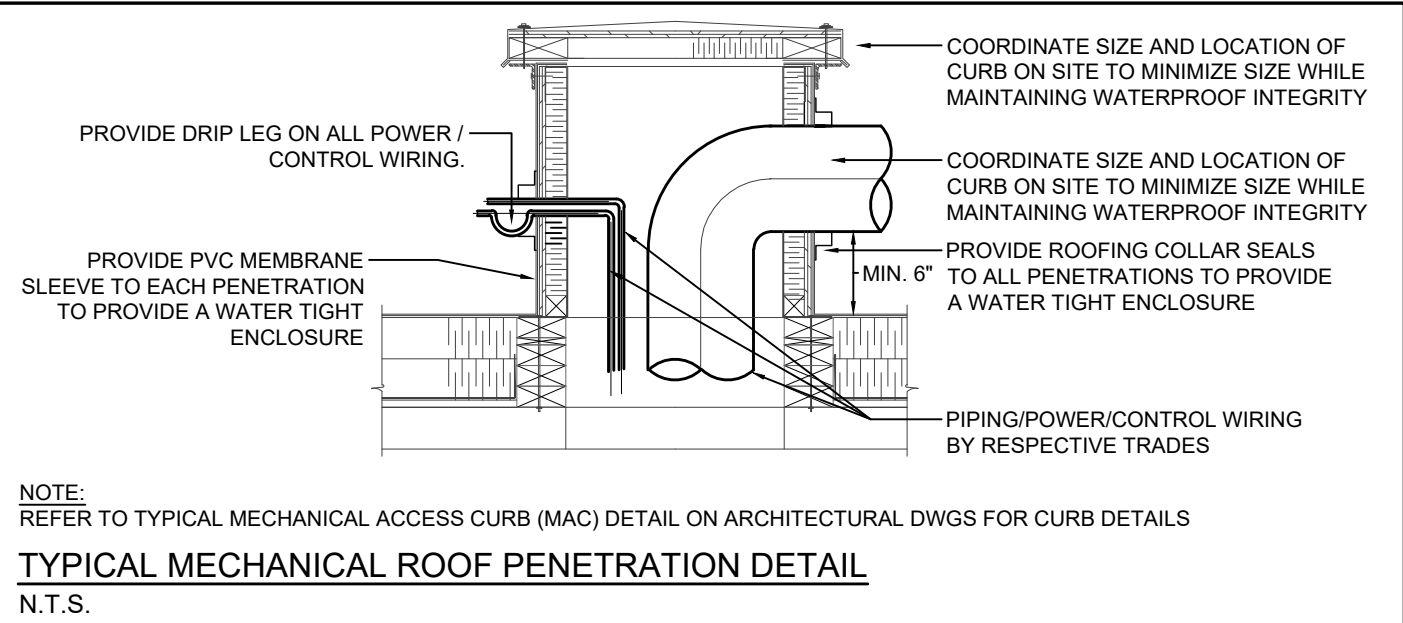
SYMBOL	DESCRIPTION
	15mm NEO-ACOUSTIC INSULATION
 <p>X: CFM CAPACITY Z: TYPE OF DIFFUSER Y: DUCT CONNECTION SIZE</p>	GRILLE/REGISTER/DIFFUSER CAPACITY. REFER TO AIR TERMINAL SCHEDULE
	ZONE TEMPERATURE SENSOR
MD	MOTORIZED DAMPER
	RETURN OR EXHAUST AIR DUCT
	SUPPLY OR OUTSIDE AIR DUCT
	RETURN/EXHAUST AIR GRILLE
  	SUPPLY DIFFUSER
  	EXHAUST FAN INLINE / CABINET / ROOF MOUNT
FDL	FIRE DAMPER
VDL	BALANCING DAMPER
OA	OUTSIDE AIR
EA	EXHAUST AIR
SA	SUPPLY AIR
RA	RETURN AIR
NIC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR
NTS	NOT TO SCALE

### PLUMBING FIXTURE SIZING TABLE

TAG	FIXTURE DESCRIPTION	DRAIN	VENT	DCW	DHW
WC-1	WATER CLOSET - FLUSH VALVE	750 (3")	400 (1-1/2")	250 (1")	-
L-1	LAVATORY	400 (1-1/2")	320 (1-1/4")	150 (1/2")	150 (1/2")
TSP-1	TRAP SEAL PRIMER	-	-	150 (1/2")	-

LEGEND - PIPING SYSTEMS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	STORM		CHECK VALVE
— SAN —	SANITARY		ISOLATION / SHUTOFF VALVE
— DCW —	DOMESTIC COLD WATER		DDC CONTROL VALVE
— DHW —	DOMESTIC HOT WATER		CIRCUIT BALANCING VALVE
— DHWR —	DOMESTIC HOT WATER RECIRC		UNION
— XXX(N) —	NEW		PIPE UP
— XXX(EX) —	EXISTING TO REMAIN		PIPE DOWN
— XXX(ER) —	EXISTING TO BE REMOVED	CO O COIL	CLEANOUT (FLOOR, WALL)
— XXX(EL) —	EXISTING TO BE RELOCATED		MANUAL AIR VENT
FD	PLUMBING FIXTURE TAG (TYP.)		FLOW DIRECTION
	PRESSURE GAUGE		PIPE BREAK
	TEMPERATURE GAUGE		



NOTE:  
REFER TO TYPICAL MECHANICAL ACCESS CURB (MAC) DETAIL ON ARCHITECTURAL DWGS FOR CURB DETAILS.

TYPICAL MECHANICAL ROOF PENETRATION DETAIL  
N.T.S.

**IDEA**  
INTEGRATED DESIGN  
ENGINEERING + ARCHITECTURE

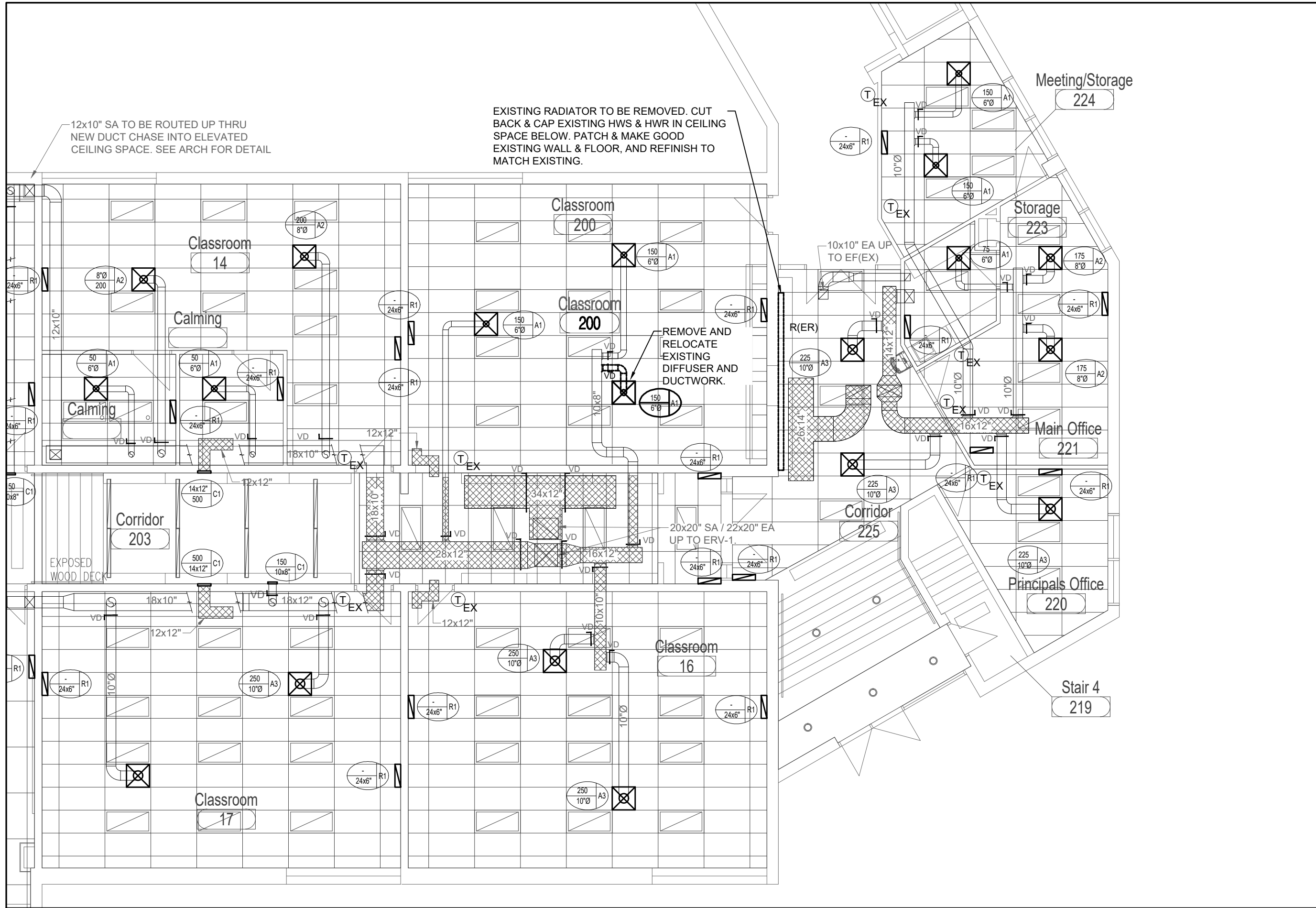
Not to be used for construction, unless  
tested and signed by the architect or engineer

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Barrier Free Upgrades  
Our Lady of Fatima Catholic School  
Riverside Dr., P.O. Box 1100, Chapeau, Ontario  
for the Huron Superior Catholic District School Board

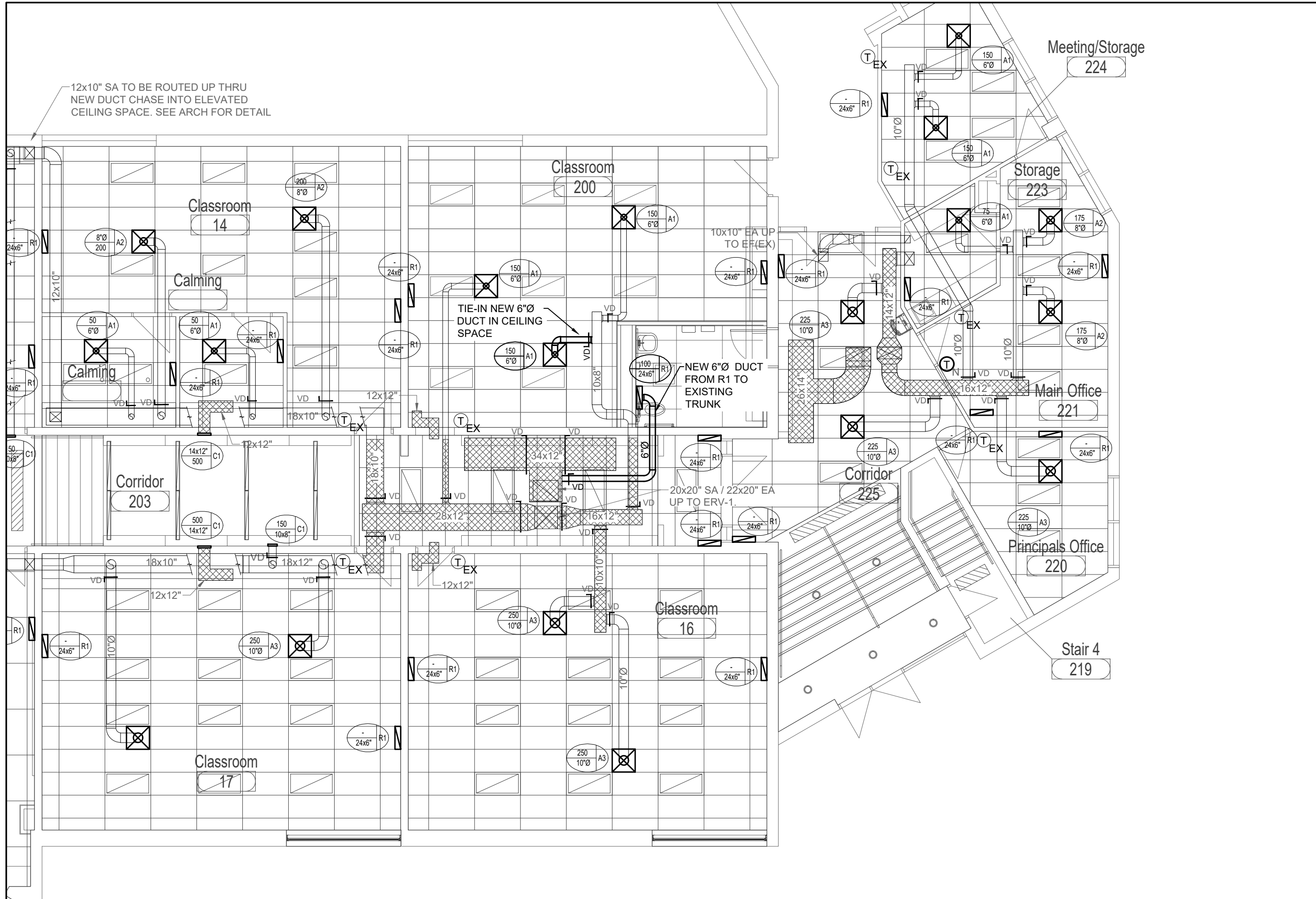
revisions  
00\_2023-03-15  
issued for Tender & Construction

<b>m0.00</b>	number 21026b	scale NTS
<b>Mechanical Notes, Legends, Details &amp; Schedules</b>		date 2023-03-15
		checked by J. Campbell
		drawn by A. Camirand

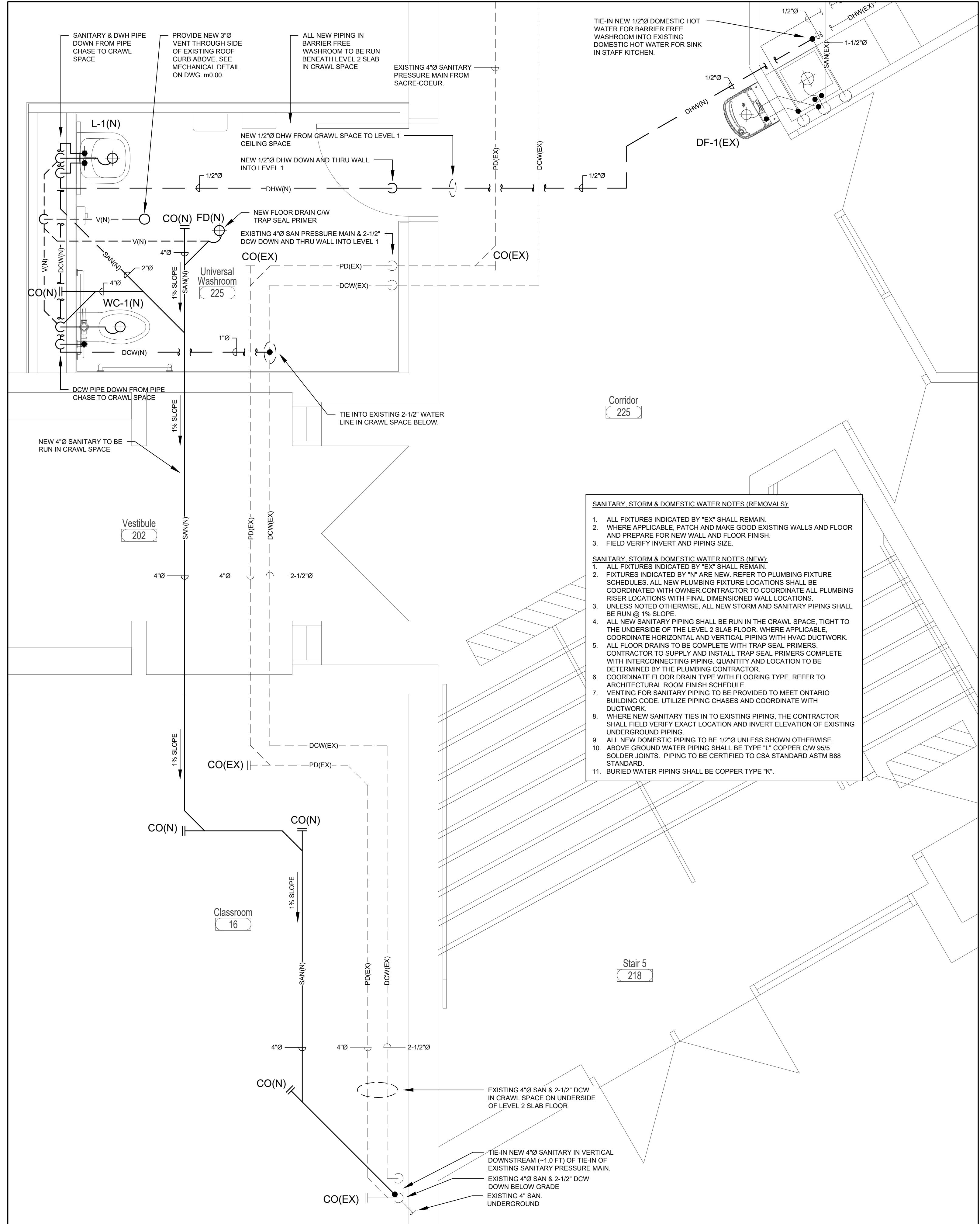




**Level 2 Partial Plan - HVAC - Removals**  
Scale 1/8" = 1'-0"



**Level 2 Partial Plan - HVAC - New**  
Scale 1/8" = 1'-0"



**Level 2 Partial Plan - Storm & Sanitary**  
Scale 1/2" = 1'-0"

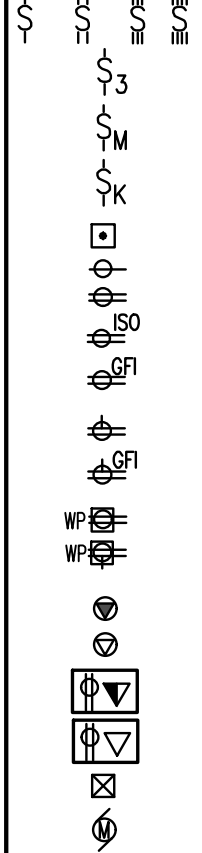
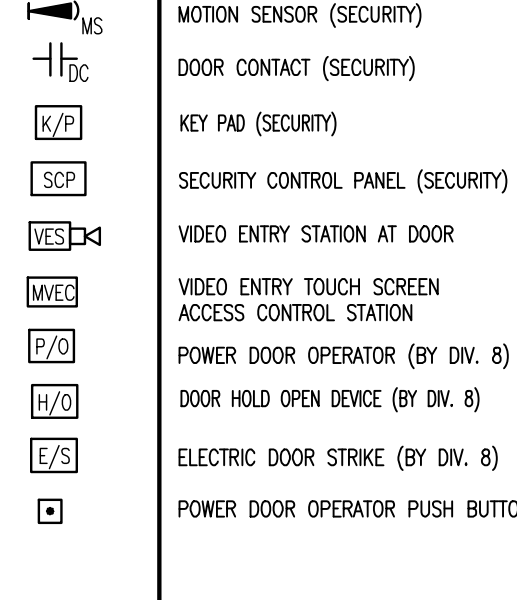
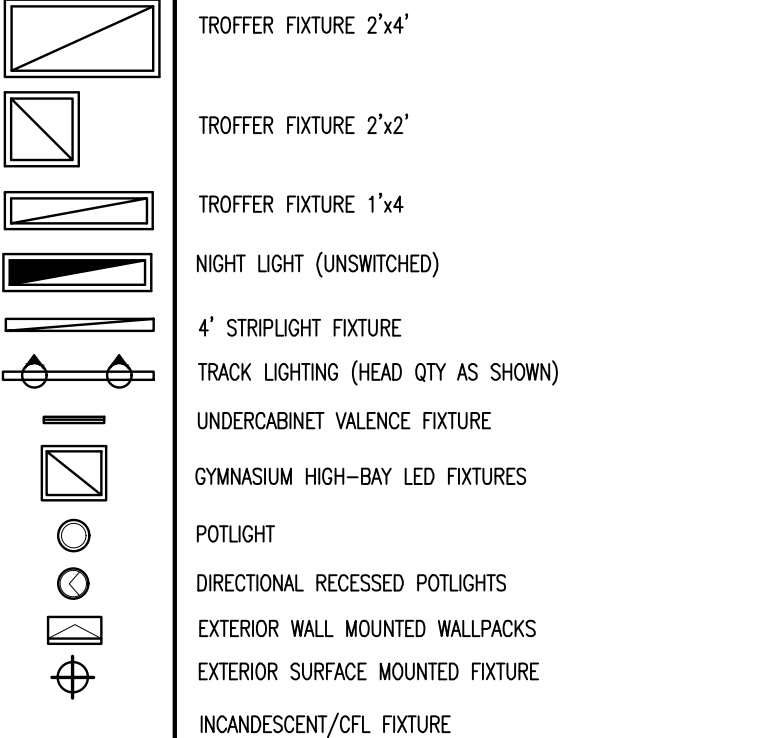
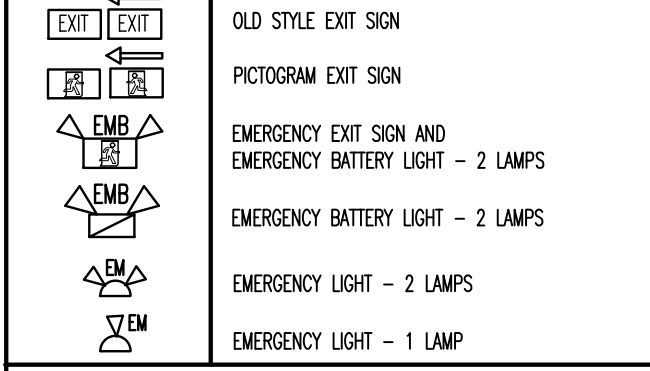
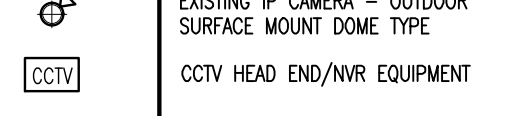
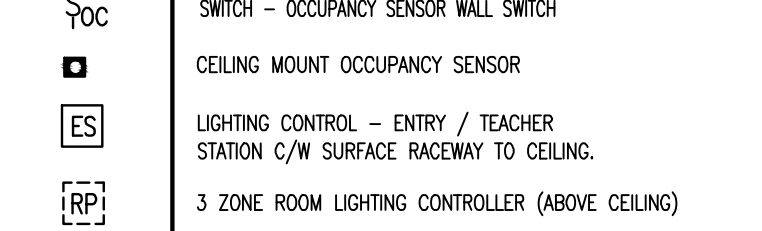
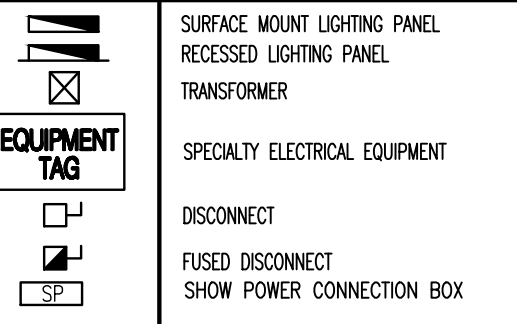
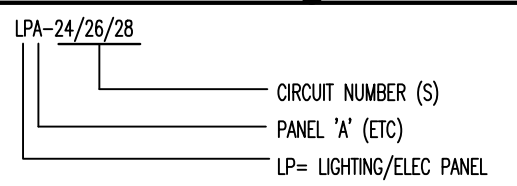
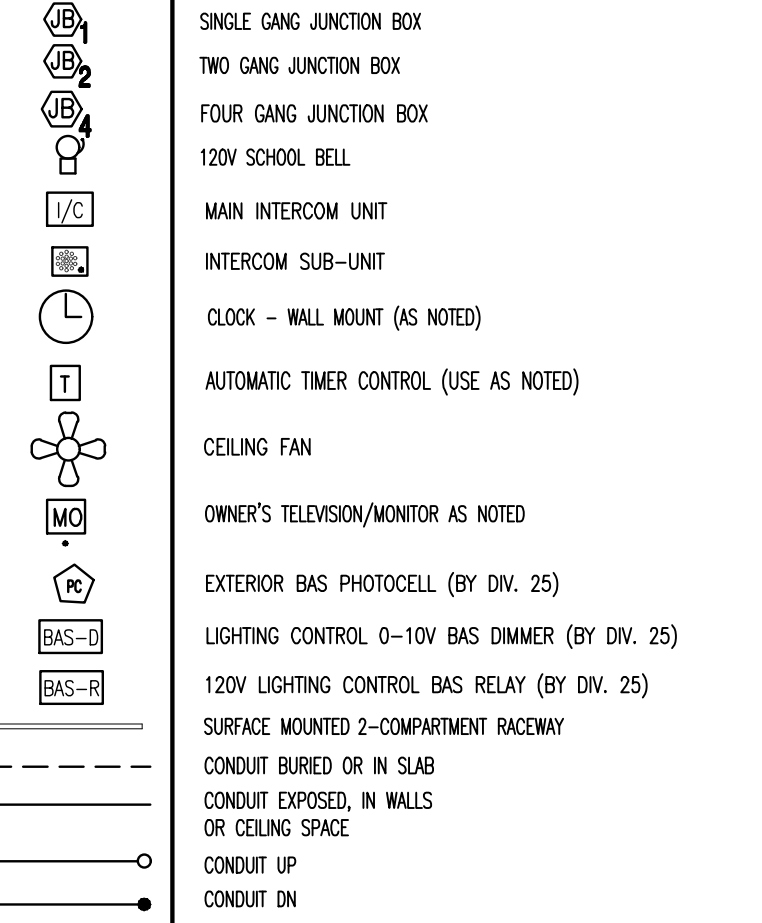
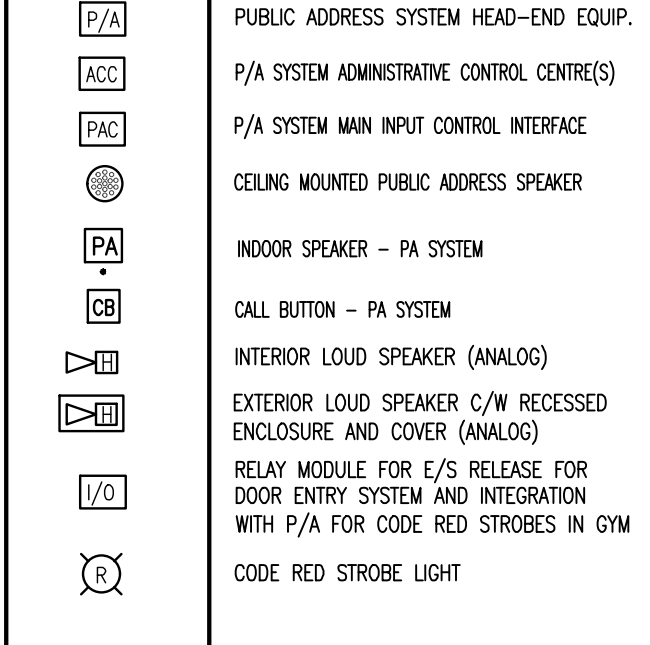
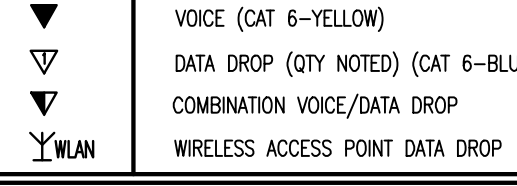
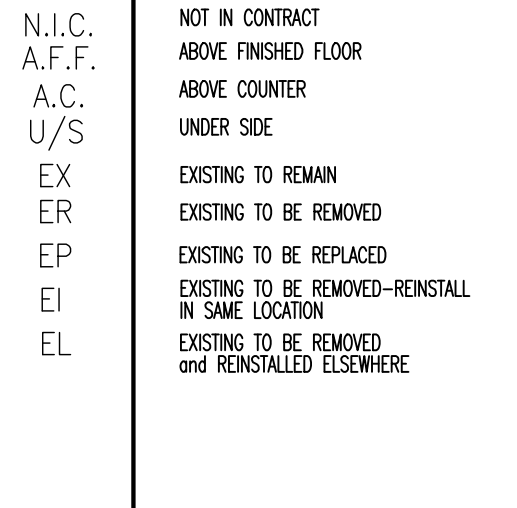
1.0 ELECTRICAL SPECIFICATION







- 1.1 **REFERENCE**  
COMPLY WITH GENERAL CONDITIONS OF THE CONTRACT AND DIVISION 1.
- 1.2 **INTENT**  
PROVIDE EACH ITEM MENTIONED OR INDICATED OF QUALITY AND SUBJECT TO QUALIFICATIONS NOTED; PERFORM ACCORDING TO CONDITIONS STATED EACH OPERATION PRESCRIBED; AND PROVIDE THEREFORE ALL LABOUR, MATERIAL, EQUIPMENT, INCIDENTALS AND SERVICES REQUIRED TO COMPLETE THE INSTALLATION.
- 1.3 **CUTTING, PATCHING, FINISHING, FIRESTOPPING AND FIREPROOFING**  
a) ALL CUTTING, PATCHING AND FINISHING FOR DIVISION 26 BY OTHERS, TO BE COORDINATED BY THE GENERAL CONTRACTOR.  
b) PROVISION OF ALL FIRESTOPPING REQUIRED FOR WIRED SYSTEMS AND PENETRATION OF RATED WALLS, FLOORS AND PARTITIONS SHALL BE THE RESPONSIBILITY OF DIV. 7 UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
- 1.4 **RECORD DRAWINGS**  
MAKE A SET OF WHITE PRINTS AS THE JOB PROGRESSES, CHANGES MADE THROUGH ANY APPROVED CHANGE ORDER AS WELL AS THE LOCATION OF FEEDERS, CONDUIT RUNS, JUNCTION BOXES, AND ALL CHANGES IN CIRCUITING, LOCATION OF EQUIPMENT, RUNS OF CONDUITS, WIRING, ETC. FROM THAT ORIGINALLY SHOWN, SO THAT ON THE COMPLETION OF THE JOB THE RECORD DRAWINGS WILL SHOW THE EXACT LOCATION AS ACTUALLY INSTALLED. LOCATION OF CONCEALED AND BURIED DUCTS, CONDUITS AND CABLES SHALL BE DIMENSIONED FROM FIXED REFERENCE POINTS. RECORD DRAWINGS SHALL BE KEPT AT THE SITE AND SHALL BE BROUGHT UP TO DATE AS THE WORK PROGRESSES. SUBMIT COMPLETED RECORD DRAWINGS BEFORE FINAL CERTIFICATE OF JOB ACCEPTANCE IS ISSUED.
- 1.5 **DOCUMENTS REQUIRED**  
THE FOLLOWING DOCUMENTS SHALL BE SUBMITTED TO THE CONSULTANT ON THE COMPLETION OF THE PROJECT AS DESCRIBED ABOVE;  
– ELECTRICAL INSPECTION CERTIFICATE  
– AS-BUILT DRAWINGS  
– GUARANTEE  
– FIRE ALARM VERIFICATION CERTIFICATE AND TECHNICIAN NOTES
- 1.6 **GUARANTEES**  
AFTER THE WORK IS COMPLETE BUT BEFORE FINAL PAYMENT, GIVE THE OWNER A WRITTEN GUARANTEE THAT YOU WILL, AT NO CHARGE TO THE OWNER, REPLACE OR REPAIR ANY DEFECTS IN WORKMANSHIP AND MATERIALS NOT DUE, IN THE OPINION OF THE CONSULTANT TO MISUSE OR NEGLECT. GUARANTEE SHALL COVER A PERIOD OF 12 MONTHS FROM THE DATE OF ACCEPTANCE OF THE WORK BY THE CONSULTANT. THIS GUARANTEE SHALL IN NO WAY SUPPLANT ANY OTHER GUARANTEE OR GUARANTEES OF LONGER PERIOD, BUT SHALL BE BINDING ON ALL OTHER WORK NOT OTHERWISE COVERED.
- 1.7 **CODES, PERMITS AND INSPECTION**  
a) ALL WORK SHALL COMPLY STRICTLY TO THE REQUIREMENTS OF THE LATEST EDITIONS OF THE CANADIAN ELECTRICAL "CSA" CODE AS ADOPTED AND AMENDED BY PROVINCIAL REGULATIONS AND THE ONTARIO BUILDING CODE. THESE CODES AND ANY ADDITIONAL REQUIREMENTS OF THE POWER UTILITY SHALL FORM AN INTEGRAL PART OF THIS SPECIFICATION. ALL EQUIPMENT SHALL BE CSA APPROVED. WHERE DRAWING CALLS FOR EQUIPMENT, WIRING OR OTHER REQUIREMENTS EXCEEDING THE MINIMUM REQUIREMENTS OF THE CODE, THE DRAWING SHALL BE FOLLOWED.  
b) BEFORE STARTING ANY WORK, SUBMIT THE REQUIRED NUMBER OF COPIES OF THE ELECTRICAL DRAWINGS TO THE ELECTRICAL SAFETY AUTHORITY AND BUILDING INSPECTION DEPARTMENT, FOR THEIR APPROVAL AND COMMENTS.  
c) PAY ALL FEES FOR EXAMINATION OF DRAWINGS AND OBTAIN ALL PERMITS REQUIRED AND PAY ALL PERMIT AND INSPECTION FEES.  
d) ASRANGE FOR INSPECTION OF ALL WORK BY THE ELECTRICAL SAFETY AUTHORITY AND BUILDING INSPECTION DEPARTMENT ON COMPLETION OF THE WORK, PRESENT TO THE OWNER THE FINAL UNCONDITIONAL CERTIFICATE OF APPROVAL.
- 1.8 **SHOP DRAWINGS**  
ON AWARD OF CONTRACT, SUBMIT FOR REVIEW LIST OF DELIVERY DATES AND SHOP DRAWINGS FOR ALL EQUIPMENT.
- 1.9 **ELECTRICAL MATERIALS and METHODS**  
ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS, NOISE AND VIBRATION. ALL EQUIPMENT SHALL BE CSA APPROVED, OR WITH SPECIAL ELECTRICAL SAFETY AUTHORITY APPROVAL.
- 1.10 **COORDINATION**  
SCHEDULE AND COORDINATE ALL WORK WITH OTHER TRADES. RELOCATE OR REPLACE CONDUIT OR EQUIPMENT WHICH INTERFERES WITH OTHER TRADES DUE TO LACK OF COORDINATION WITH OTHER TRADES.
- 1.11 **TEMPORARY USAGE**  
THE OWNER SHALL HAVE TEMPORARY USE OF INSTALLATION PRIOR TO FINAL ACCEPTANCE.
- 1.12 **EXTRAS, RELOCATION OF EQUIPMENT**  
ALL CLAIMS FOR EXTRAS SHALL BE SUPPORTED BY WRITTEN AUTHORIZATION AND ITEMIZED MATERIAL AND LABOUR COST BREAKDOWNS. THERE SHALL BE NO EXTRA CLAIM FOR RELOCATION OF ANY EQUIPMENT WITHIN 3m (10 FEET) OF THE ORIGINAL LOCATION PROVIDED THE REQUEST TO RELOCATE IT IS GIVEN BEFORE IT IS INSTALLED.
- 1.13 **IDENTIFICATION**  
ALL ELECTRICAL EQUIPMENT MOUNTED AND CONNECTED BY THIS CONTRACTOR, WHETHER SUPPLIED BY HIM OR NOT, SHALL BE IDENTIFIED BY MEANS OF PLASTIC NAMEPLATES WITH LETTERING ENGRAVED TO MATCH TAGS ON DRAWINGS

- 1.14 **WIRING METHOD**  
a) ALL WIRING SHALL BE CONCEALED WHERE POSSIBLE EXCEPT THAT CONDUITS IN ELECTRICAL ROOMS AND OTHER AREAS NOTED MAY BE INSTALLED ON SURFACE.  
i) RIGID STEEL CONDUITS USED IN  
– ALL EXPOSED WIRING SUBJECT TO MECHANICAL DAMAGE. – ALL AREAS REQUIRED BY CODE.  
ii) EMT CONDUITS CAN BE USED WHERE PERMITTED BY CODE.  
– EXPOSED WIRING.  
– IN FURRED WALLS.  
b) ARMORED FLEXIBLE CABLE (BX) MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING, RECEPTABLES AND MOTOR BRANCH CIRCUITS CONCEALED IN DRY ACCESSIBLE CEILING SPACES AND IN HOLLOW PARTITIONS  
c) WALL BOXES SHALL BE STANDARD SWITCH BOXES, RECESSED, MOUNTED AT THE HEIGHT AND LOCATION SHOWN UNLESS OTHERWISE NOTED. STAGGER BACK TO BACK OUTLET BOXES TO OBVIATE NOISE TRANSMISSION.  
d) PROVIDE SEPARATE NEUTRAL AND GROUND WIRE FOR EACH RECEPTABLE CIRCUIT. COMMON NEUTRALS SHALL NOT BE PERMITTED.
- 1.15 **CONDUCTORS**  
ALL CONDUCTORS SHALL BE COPPER 600V GRADE WITH INSULATION TYPE RM90 OR AS NOTED. MINIMUM CONDUCTOR SIZE SHALL BE # 12AWG AND COLOUR CODED.
- 1.16 **QUANTITIES**  
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL MATERIAL QUANTITIES AND LENGTHS SHOWN IN THESE DRAWING FOR CORRECTNESS.

2.0 FIRE ALARM SYSTEM

- 2.1 SUPPLY AND INSTALL EQUIPMENT AND ACCESSORIES FOR UPGRADE OF EXISTING FIRE ALARM SYSTEM TO INCLUDE FOR VISUAL NOTIFICATION; COORDINATE REPLACEMENT OF ALL 13 EXISTING FIRE ALARM HORNS (5 LOCATED ON OUR LADY OF FATIMA SIDE AND 8 ON ECOLE SACRE-COEUR) WITH ACCESS, ETC. TO ALL SPACES TO BE COORDINATED BY GENERAL CONTRACTOR. ALL WORK ON THE EXISTING EDWARDS FIRE ALARM SYSTEM TO BE PERFORMED BY TROY LIFE AND FIRE SAFETY INCLUDING ALL TESTING AND VERIFICATIONS.
- 2.2 COMPLETE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE CAN/ULC S524 "STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS".
- 2.3 WHERE THE REQUIREMENTS OF THIS SECTION EXCEED THE MINIMUM REQUIREMENTS OF THE ULC STANDARD, THESE SPECIFICATIONS SHALL GOVERN.
- 2.4 THERMAL DETECTORS SHALL HAVE TWIST LOCK MOUNTING FOR EASE OF MAINTENANCE, TESTING AND REPLACEMENT. ACTIVATION OF THE FIXED TEMPERATURE ELEMENT IN THE DETECTOR SHALL BE INDICATED BY A VISIBLE MEANS.
- 2.5 WIRING SHALL BE SIZED IN ACCORDANCE WITH CLASS 2 REQUIREMENTS, AND SHALL BE PROTECTED FROM MECHANICAL INJURY OR OTHER INJURIOUS CONDITIONS SUCH AS MOISTURE, EXCESSIVE HEAT OR CORROSIVE ACTION IN ACCORDANCE WITH CLASS 1 REQUIREMENTS. CONDUCTORS SHALL BE SOLID COPPER, SIZED TO SYSTEM MANUFACTURER'S REQUIREMENTS.
- 2.6 VERIFICATION AND CERTIFICATION OF FIRE ALARM EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF CAN/ULC STANDARDS S536 AND S537. THE MANUFACTURER SHALL MAKE AN INSPECTION OF THE FIRE ALARM EQUIPMENT, INCLUDING THOSE COMPONENTS NECESSARY TO THE DIRECT OPERATION OF THE SYSTEM SUCH AS MANUAL STATIONS, THERMAL DETECTORS AND CONTROLS, WHETHER OR NOT MANUFACTURED BY THE MANUFACTURER, THE INSPECTION SHALL COMPRISE AN EXAMINATION OF SUCH EQUIPMENT FOR THE FOLLOWING:  
a. THAT THE TYPE OF EQUIPMENT INSTALLED IS THAT DESIGNATED IN THE SPECIFICATIONS.  
b. THAT THE WIRING CONNECTIONS TO ALL EQUIPMENT COMPONENTS SHOW THAT THE INSTALLER UNDERTOOK TO HAVE OBSERVED ULC AND CSA REQUIREMENTS.  
c. THAT EQUIPMENT OF THE MANUFACTURER'S HAS BEEN INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, AND THAT ALL SIGNALING DEVICES OF WHATEVER MANUFACTURER HAVE BEEN OPERATED OR TESTED TO VERIFY THEIR OPERATION; AND  
d. THAT THE SUPERVISORY WIRING OF THOSE ITEMS OF EQUIPMENT CONNECTED TO A SUPERVISED CIRCUIT IS OPERATING AND THAT THE GOVERNMENTAL REGULATIONS, IF ANY, CONCERNING SUCH SUPERVISORY WIRING, HAVE BEEN MET TO THE SATISFACTION OF INSPECTING OFFICIALS..
- 2.7 THE MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE WITH RESPECT TO ANY CHANGES NECESSARY TO CONFORM TO THE ABOVE. DURING THE PERIOD OF INSPECTION BY THE MANUFACTURER, MAKE AVAILABLE TO THE MANUFACTURER ELECTRONICS AS DESIGNATED BY THE MANUFACTURER.  
THE VERIFICATION MUST MEET CAN STANDARD S537 AND OPEN FLAME IS NOT TO BE USED FOR TESTING.  
ON COMPLETION OF THE INSPECTION AND WHEN ALL OF THE ABOVE CONDITIONS HAVE BEEN COMPLIED WITH, AND DEFICIENCIES INDICATED IN PRELIMINARY REPORT HAVE BEEN CORRECTED, THE MANUFACTURER SHALL ISSUE TO THE ARCHITECT:  
a. A COPY OF THE INSPECTING TECHNICIAN'S REPORT SHOWING LOCATION OF EACH DEVICE AND CERTIFYING THE TEST RESULTS OF EACH DEVICE  
b. A CERTIFICATE OF VERIFICATION CONFIRMING THAT THE INSPECTION HAS BEEN COMPLETED AND SHOWING THE CONDITIONS UPON WHICH SUCH INSPECTION AND CERTIFICATION HAVE BEEN RENDERED.  
c. PROOF OF LIABILITY INSURANCE FOR THE INSPECTION.
- 2.8 ALL COSTS INVOLVED IN THIS INSPECTION SHALL BE INCLUDED IN THE CONTRACTOR'S TENDER PRICE UTILIZING THE OWNERS VENDOR OF RECORD (TROY LIFE AND FIRE SAFETY).

Switches and Receptacles	Security / Door Access	Lighting Fixtures
<div></div> <div><p>SWITCH – SINGLE / DOUBLE / TRIPLE / FOUR</p><p>SWITCH – 3 WAY</p><p>SWITCH – LOCAL MOTOR DISCONNECT</p><p>SWITCH – KEYSWITCH (SUPPLIED BY DIV. 11, INSTALLED BY DIV. 26)</p><p>PUSH BUTTON STATION (FOR USE AS NOTED)</p><p>SMUX RECEPTACLE</p><p>DUPLEX RECEPTACLE</p><p>DUPLEX RECEPTACLE – ISOLATED GROUND</p><p>DUPLEX RECEPTACLE – CLASS A GROUND FAULT</p><p>DUPLEX RECEPTACLE – 20A T-SLOT</p><p>DUPLEX RECEPTACLE – CLASS A GFI 20A T-SLOT</p><p>DUPLEX RECEPTACLE – OUTDOOR GFCI (RATED 15 OR 20A AS NOTED) C/W WET LOCATION "N-USE" COMMERCIAL GRADE LOCKABLE COVER</p><p>DIRECT POWER CONNECTION</p><p>RECEPTACLE – SPECIAL AMPERAGE AS NOTED</p><p>COMBINATION POWER/VOICE/DATA IN-FLOOR BOX</p><p>COMBINATION POWER/DATA IN-FLOOR BOX</p><p>ELECTRICAL MOTOR</p></div>	<div></div> <div><p>MOTION SENSOR (SECURITY)</p><p>DOOR CONTACT (SECURITY)</p><p>KEY PAD (SECURITY)</p><p>SECURITY CONTROL PANEL (SECURITY)</p><p>VIDEO ENTRY STATION AT DOOR</p><p>VIDEO ENTRY TOUCH SCREEN ACCESS CONTROL STATION</p><p>POWER DOOR OPERATOR (BY DIV. 8)</p><p>DOOR HOLD OPEN DEVICE (BY DIV. 8)</p><p>ELECTRIC DOOR STRIKE (BY DIV. 8)</p><p>POWER DOOR OPERATOR PUSH BUTTON</p></div>	<div></div> <div><p>TROFFER FIXTURE 2'x4'</p><p>TROFFER FIXTURE 2'x2'</p><p>TROFFER FIXTURE 1'x4</p><p>NIGHT LIGHT (UNSWITCHED)</p><p>4' STRIPLIGHT FIXTURE</p><p>TRACK LIGHTING (HEAD QTY AS SHOWN)</p><p>UNDERCABINET VALANCE FIXTURE</p><p>GYMNASIUM HIGH-BAY LED FIXTURES</p><p>POTLIGHT</p><p>DIRECTIONAL RECESSED POTLIGHTS</p><p>EXTERIOR WALL MOUNTED WALLPACKS</p><p>EXTERIOR SURFACE MOUNTED FIXTURE</p><p>INCANDESCENT/CFL FIXTURE</p></div>
Life Safety	CCTV System	Lighting Control
<div></div> <div><p>OLD STYLE EXIT SIGN</p><p>PICTOGRAM EXIT SIGN</p><p>EMERGENCY EXIT SIGN AND EMERGENCY BATTERY LIGHT – 2 LAMPS</p><p>EMERGENCY BATTERY LIGHT – 2 LAMPS</p><p>EMERGENCY LIGHT – 2 LAMPS</p><p>EMERGENCY LIGHT – 1 LAMP</p></div>	<div></div> <div><p>EXISTING IP CAMERA – OUTDOOR SURFACE MOUNT DOME TYPE</p><p>CCTV HEAD END/NVR EQUIPMENT</p></div>	<div></div> <div><p>SWITCH – OCCUPANCY SENSOR WALL SWITCH</p><p>CEILING MOUNT OCCUPANCY SENSOR</p><p>LIGHTING CONTROL – ENTRY / TEACHER STATION C/W SURFACE RACEWAY TO CEILING.</p><p>3 ZONE ROOM LIGHTING CONTROLLER (ABOVE CEILING)</p></div>
Electrical Distribution	Circuit Designation	Miscellaneous
<div></div> <div><p>SURFACE MOUNT LIGHTING PANEL</p><p>RECESSED LIGHTING PANEL</p><p>TRANSFORMER</p><p>SPECIALTY ELECTRICAL EQUIPMENT</p><p>DISCONNECT</p><p>FUSED DISCONNECT</p><p>SHOW POWER CONNECTION BOX</p></div>	<div></div> <div><p>LPA-24/26/28</p><p>CIRCUIT NUMBER (S)</p><p>PANEL 'X' (ETC)</p><p>LP= LIGHTING/ELEC PANEL</p></div>	<div></div> <div><p>SINGLE GANG JUNCTION BOX</p><p>TWO GANG JUNCTION BOX</p><p>FOUR GANG JUNCTION BOX</p><p>120V SCHOOL BELL</p><p>MAIN INTERCOM UNIT</p><p>INTERCOM SUB-UNIT</p><p>CLOCK – WALL MOUNT (AS NOTED)</p><p>AUTOMATIC TIMER CONTROL (USE AS NOTED)</p><p>CEILING FAN</p><p>OWNER'S TELEVISION/MONITOR AS NOTED</p><p>EXTERIOR BAS PHOTOCCELL (BY DIV. 25)</p><p>LIGHTING CONTROL 0-10V BAS DIMMER (BY DIV. 25)</p><p>120V LIGHTING CONTROL BAS RELAY (BY DIV. 25)</p><p>SURFACE MOUNTED 2-COMPARTMENT RACEWAY</p><p>CONDUIT BURIED IN SLAB</p><p>CONDUIT EXPOSED IN WALLS OR CEILING SPACE</p><p>CONDUIT UP</p><p>CONDUIT DN</p></div>
Public Address System	Communication	Electrical Abbreviations
<div></div> <div><p>PUBLIC ADDRESS SYSTEM HEAD-END EQUIP.</p><p>P/A SYSTEM ADMINISTRATIVE CONTROL CENTRE(S)</p><p>P/A SYSTEM MAIN INPUT CONTROL INTERFACE</p><p>CEILING MOUNTED PUBLIC ADDRESS SPEAKER</p><p>INDOOR SPEAKER – PA SYSTEM</p><p>CALL BUTTON – PA SYSTEM</p><p>INTERIOR LOUD SPEAKER (ANALOG)</p><p>EXTERIOR LOUD SPEAKER C/W RECESSED ENCLOSURE AND COVER (ANALOG)</p><p>RELAY MODULE FOR E/S RELEASE FOR DOOR ENTRY SYSTEM AND INTEGRATION WITH P/A FOR CODE RED STROBES IN GYM</p><p>CODE RED STROBE LIGHT</p></div>	<div></div> <div><p>VOICE (CAT 6-YELLOW)</p><p>DATA DROP (QTY NOTED) (CAT 6-BLUE)</p><p>COMBINATION VOICE/DATA DROP</p><p>WIRELESS ACCESS POINT DATA DROP</p></div>	<div></div> <div><p>N.I.C.</p><p>A.F.F.</p><p>A.C.</p><p>U/S</p><p>EX</p><p>ER</p><p>EP</p><p>EI</p><p>EL</p><p>NOT IN CONTRACT</p><p>ABOVE FINISHED FLOOR</p><p>ABOVE COUNTER</p><p>UNDER SIDE</p><p>EXISTING TO REMAIN</p><p>EXISTING TO BE REMOVED</p><p>EXISTING TO BE REPLACED</p><p>EXISTING TO BE REMOVED-REINSTALL IN SAME LOCATION</p><p>EXISTING TO BE REMOVED and REINSTALLED ELSEWHERE</p></div>

ELECTRICAL EQUIPMENT SCHEDULE				
Tag	Description	Manufacturer	Catalogue No.	Quantity
	<b>Lighting Controls</b> WALL SWITCH OCCUPANCY SENSOR; DUAL TECH; NO NEUTRAL REQUIRED TO BE PROGRAMMED FOR AUTO ON/OFF IN BARRIER-FREE BATHROOM.	EATON	VNW-D	AS REQ'D
	<b>Emergency Lighting</b> EMERGENCY LIGHTING BATTERY UNIT, FACTORY WHITE STEEL COMPACT ENCLOSURE WITH CORROSION RESISTANT UNDERCOATING, SUITABLE FOR WALL MOUNTING, REMOVABLE FRONT PANEL, LINE VOLTAGE CORD CONNECTED OR DIRECT WIRED AS INDICATED IN LOCATIONS NOTED ON THE DRAWINGS AND TO BE FIELD CONFIRMED BY DIV. 26, 2-5W MR16 LED LAMPS, PER CSA C22.2 AND CSA-C860 STANDARDS, 120VAC, 12VDC, 42W, SEALED 10 YEAR BATTERY.	BEGHELLI	NV-12-42-ZSR-SWLED	AS REQ'D
	<b>Luminaires</b> 2'x2' RECESSED FLAT EDGE-LIT PANEL LED LIGHT FIXTURE – 120V, 29.2W APPROX 3333 DELIVERED LUMEN OUTPUT @ 4000K, 80 CRI MINIMUM, DIE FORMED STEEL HOUSING AND WIREWAY ENCLOSURE , 0-10V DIMMABLE LED DRIVER TO 10% DIM LEVEL, CSA CERTIFIED, DLC LISTED, 5 YEAR WARRANTY.	METALUX	22FP3240C	AS REQ'D
	<b>Washroom Emergency Call System</b> WASHROOM EMERGENCY CALL KIT (SUPPLIED BY DIV. 8, INSTALLED BY DIV. 26) C/W DOUBLE GANG LED ANNUNCIATOR WITH PRESS FOR ASSISTANCE AND ASSISTANCE REQUESTED LED INDICATOR WITH BUILT-IN SOUNDER, SINGLE GANG DOME LIGHT WITH BUILT-IN SOUNDER FOR INSTALLATION IN CORRIDOR OUTSIDE OF ROOM. COORDINATE POWER CONNECTION TO LOGIC CONTROLLER AND ASSOCIATED EMERGENCY CALL SYSTEM KIT COMPLETE WITH BACK-BOX, CONDUIT ROUGH-INS AND ALL WIRING FOR DEVICES TO BE ROUGHED IN TO SUIT FINAL APPROVED SHOP DRAWINGS INCLUDING ALL LINE/LOW VOLTAGE INTERCONNECTION WIRING FOR COMPLETE INSTALL IN ACCORDANCE WITH OBC SECTION 3.8.3.12 (2); LOGIC CONTROLLER AT DOOR TO BE INTERFACED WITH UNIVERSAL WASHROOM EMERGENCY CALL SYSTEM, DOOR CONTACT AND TIE-IN WITH ELECTRIC STRIKE BY DIV. 8 FOR AUTOMATIC RELEASE IN THE EVENT OF AN EMERGENCY CALL.	BY DIV. 8: CMWEN	BY DIV. 8: CS-WC13WTFM (CONTROL KIT) WITH ILLUMINATED PUSHBUTTONS DC: CX-MDA CX-WC10K2; CALL BUTTON / ANNUNCIATOR (CB/ANN): CM-AF540SD DOME LIGHT (EW): CM-AF14150	AS REQ'D
	<b>Fire Alarm System</b> Genesis series fire horn and LED strobe combination – Red finish to match existing on-site to be field confirmed by Contractor prior to submission of shop drawings for Consultant review, high dB temporal horn output, field adjustable strobe output (15, 30, 75 or 110cd) c/w synchronization modules as required; coordinate install in existing locations utilizing existing wiring with all work coordinated with owner fire alarm vendor as noted in Electrical Specification Section 2.1; this drawing to enable addition of ceiling strobe in new Universal W/R.	Edwards	G1ARF c/w G1TR	13
	Genesis series ceiling strobe light – white finish, field adjustable strobe output (15, 30, 75 or 95cd), synchronization modules as required for wiring interconnection into existing NAC circuit for visual notification within new Universal W/R.	Edwards	GCF-VM	As Req'd

- GENERAL EQUIPMENT SCHEDULE PRODUCT SELECTIONS, EQUALS/ALTERNATES, APPROVALS, NOTE:
- EQUIPMENT SELECTIONS SPECIFIED ARE PROVIDED FOR STANDARD OF DESIGN BASIS, PRODUCTS WITH EQUAL QUALITY, LOOK AND OPERATING SPECIFICATIONS WILL BE ACCEPTABLE AS LONG AS SUPPLY/DELIVERY TIMES ARE AS GOOD OR BETTER THAN BASE PRODUCTS. THE CONSULTANT RESERVES RIGHT TO ENFORCE SUPPLY OF FIRST LISTED PRODUCT, IF PROPOSED PRODUCT SUBMITTED AT TIME OF SHOP DRAWING REVIEW IS NOT DEEMED TO BE AN ACCEPTABLE EQUAL/ALTERNATE PRODUCT OR DELIVERY TIMES IMPACT THE ABILITY TO MEET THE CONSTRUCTION SCHEDULE.
  - ALL FIRE ALARM PRODUCTS ARE SOLE SOURCED TO SUIT EXISTING SYSTEM; ALL WORK ON THE SYSTEM TO BE PERFORMED BY OWNERS FIRE ALARM VENDOR OF RECORD TROY LFS.

Electrical Spec., Legend, Details & Equipment Schedule

21026b

Barrier Free Upgrades  
Our Lady of Fatima Catholic School  
Riverside Dr., P0M 1K0, Chapleau, Ontario  
for the Huron Superior Catholic District School Board

project

2023-03-15

checked by j.biennann

drawn by e.fleet

revisions

1. 2023-03-15

Issued for Tender & Construction

scale

n.t.s

date

2023-03-15

checked by

j.biennann

drawn by

e.fleet

number

21026b

author

integrated design

integrated design

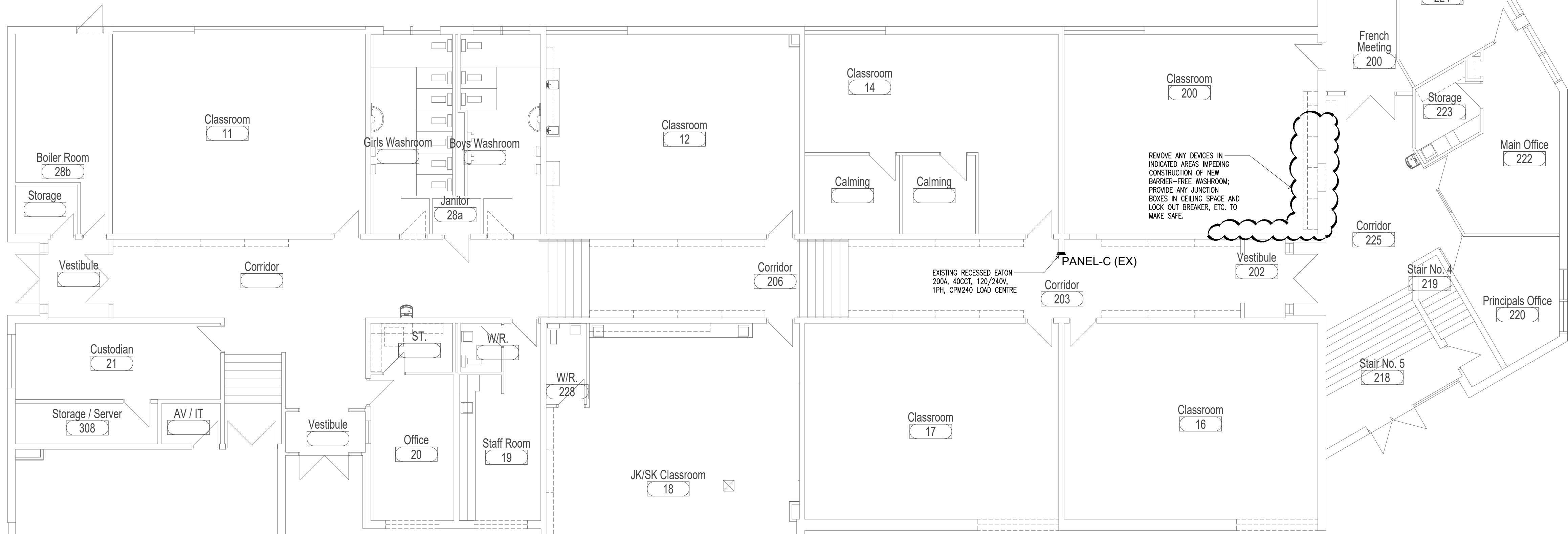
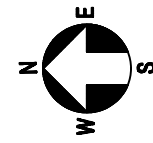
ENGINEERING + ARCHITECTURE

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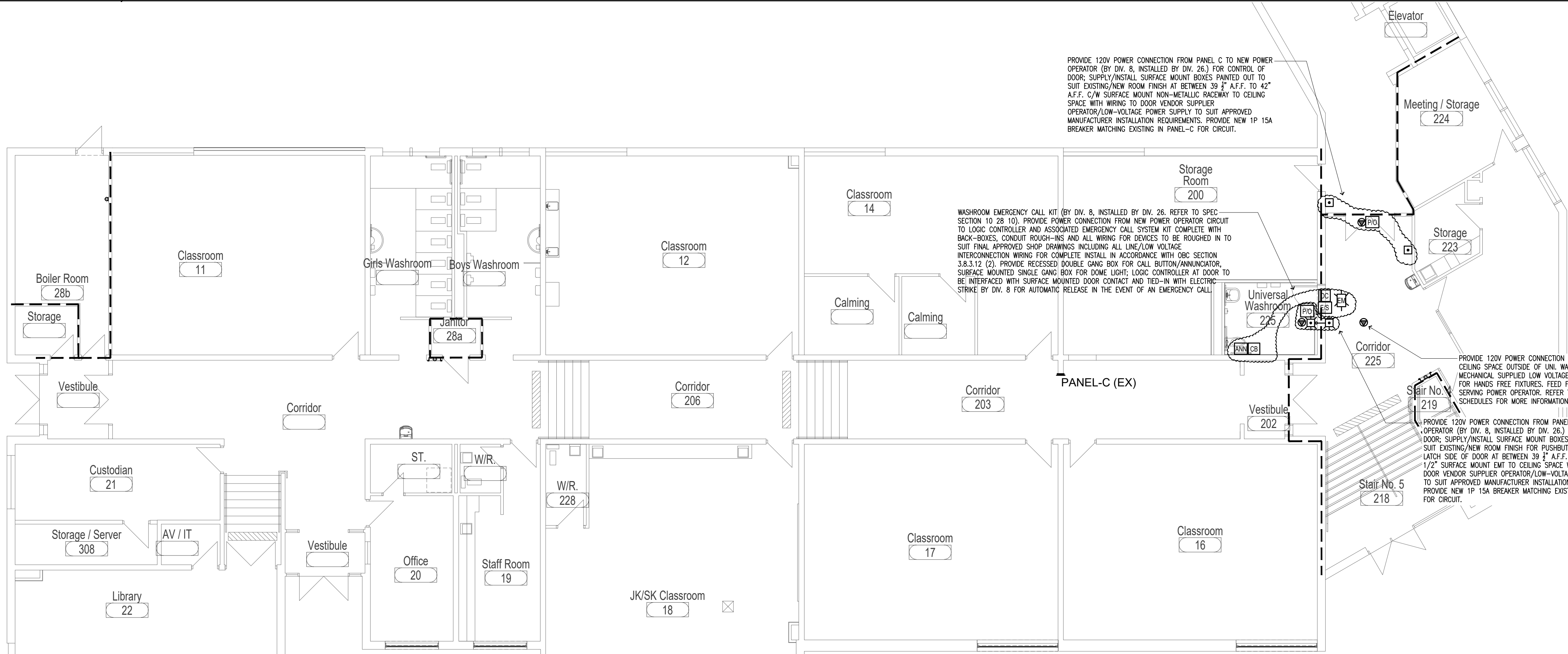
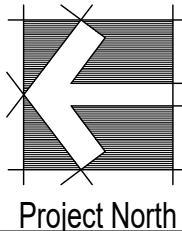
Not to be used for construction without approval and consent by the architect or engineer.





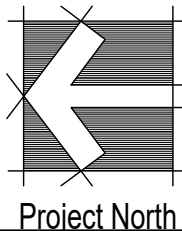
# Level 2 Power Plan - Demo

Scale 1/8"=1'-0"



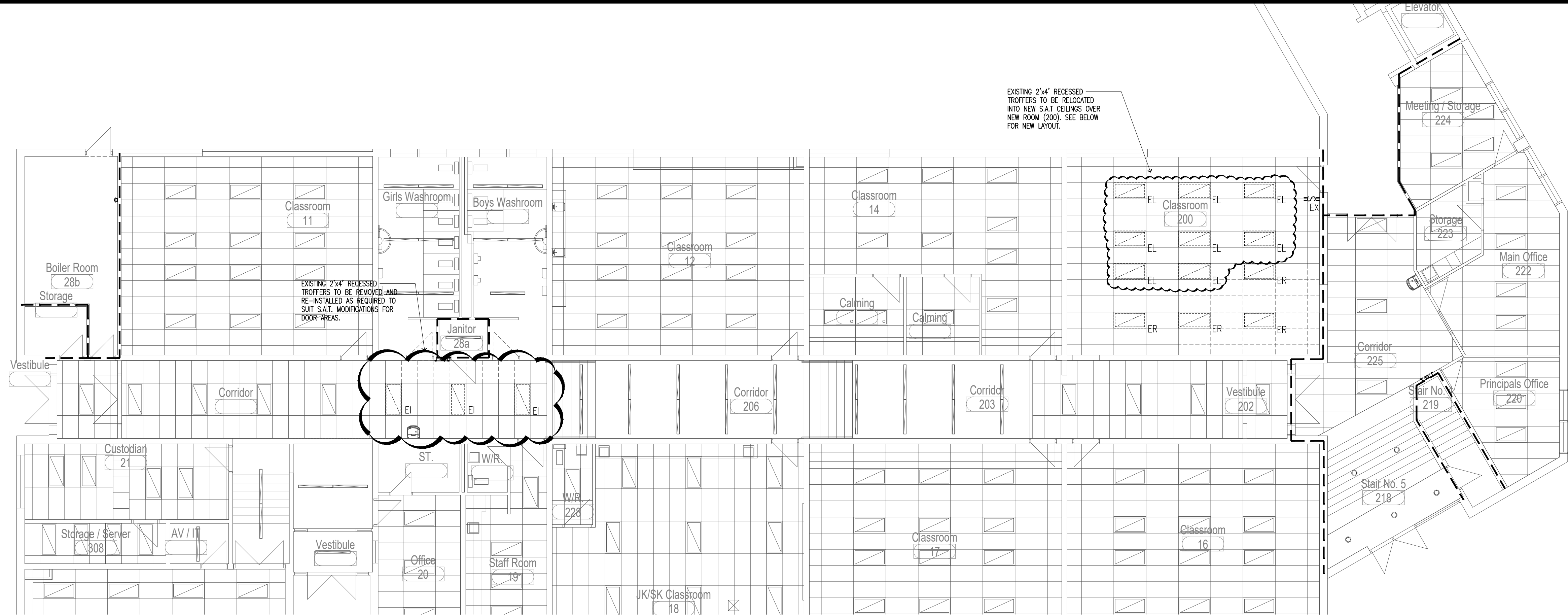
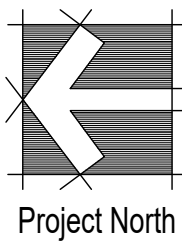
# Level 2 Power Plan - New

Scale 1/8"=1'-0"



Level 2 - Lighting and Ceiling Plan - Removals

Scale 1/8"=1'-0"



- GENERAL NOTES:
1. UNLESS NOTED OTHERWISE ALL FIXTURES AND DEVICES ARE EXISTING TO REMAIN.
  2. FOR ALL FIXTURES NOTE 'ER' PROVIDE FIRST RIGHT OF REFUSAL TO OWNER FOR USE AS SPARE PARTS, OTHERWISE OWN. 26 TO COORDINATE SAFE DISPOSAL OF FIXTURES.

Level 2 - Lighting and Ceiling Plan - New

Scale 1/8"=1'-0"

