

NOT FOR CONSTRUCTION

REPUBLIC
ARCHITECTURE
INC

385 St. Mary Avenue
Winnipeg, MB R3C 0N1

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FEDERAL BUILDING

INTERIOR RENOVATIONS

105 10 AVE N. SWAN RIVER, MB, R0L 1Z0
PROJECT 286
08/20/2018
100% CONSTRUCTION DOCUMENTS FOR TENDER

STRUCTURAL

CROSIER KILGOUR
& PARTNERS LTD.

300-275 Carlton Street
Winnipeg, Manitoba
R3C 5R6

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www.ckpeng.com

MECHANICAL

HDK CONSULTING INC.

2633 Portage Ave.
Winnipeg, Manitoba
R3J 0P7

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F 204 818 0388
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ELECTRICAL

HDK CONSULTING INCORPORATED

2633 Portage Ave.
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LIST OF DRAWINGS

ARCHITECTURAL
A0.1 SHEET INFO, BUILDING CODE REVIEW, PROJECT INFORMATION, SITE & KEY PLAN
A0.2 GENERAL NOTES & LEGENDS, DOOR AND FRAME TYPES, WALL TYPES, TYP DETAILS
A1 DEMO AND NEW CONSTRUCTION FLOOR PLAN, ELEVATIONS
A2 DEMO AND NEW REFLECTED CEILING PLAN
A3 FURNITURE & FINISHES PLAN
A4 INTERIOR ELEVATIONS, MILLWORK DETAILS, 3D VIEWS
A5 ROOF AND WINDOW DETAILS

STRUCTURAL
S1 PARTIAL EXIST MAIN FLOOR & ATTIC FRAMING PLANS & GENERAL NOTES
S2 PARTIAL EXIST ATTIC & ROOF FRAMING PLANS

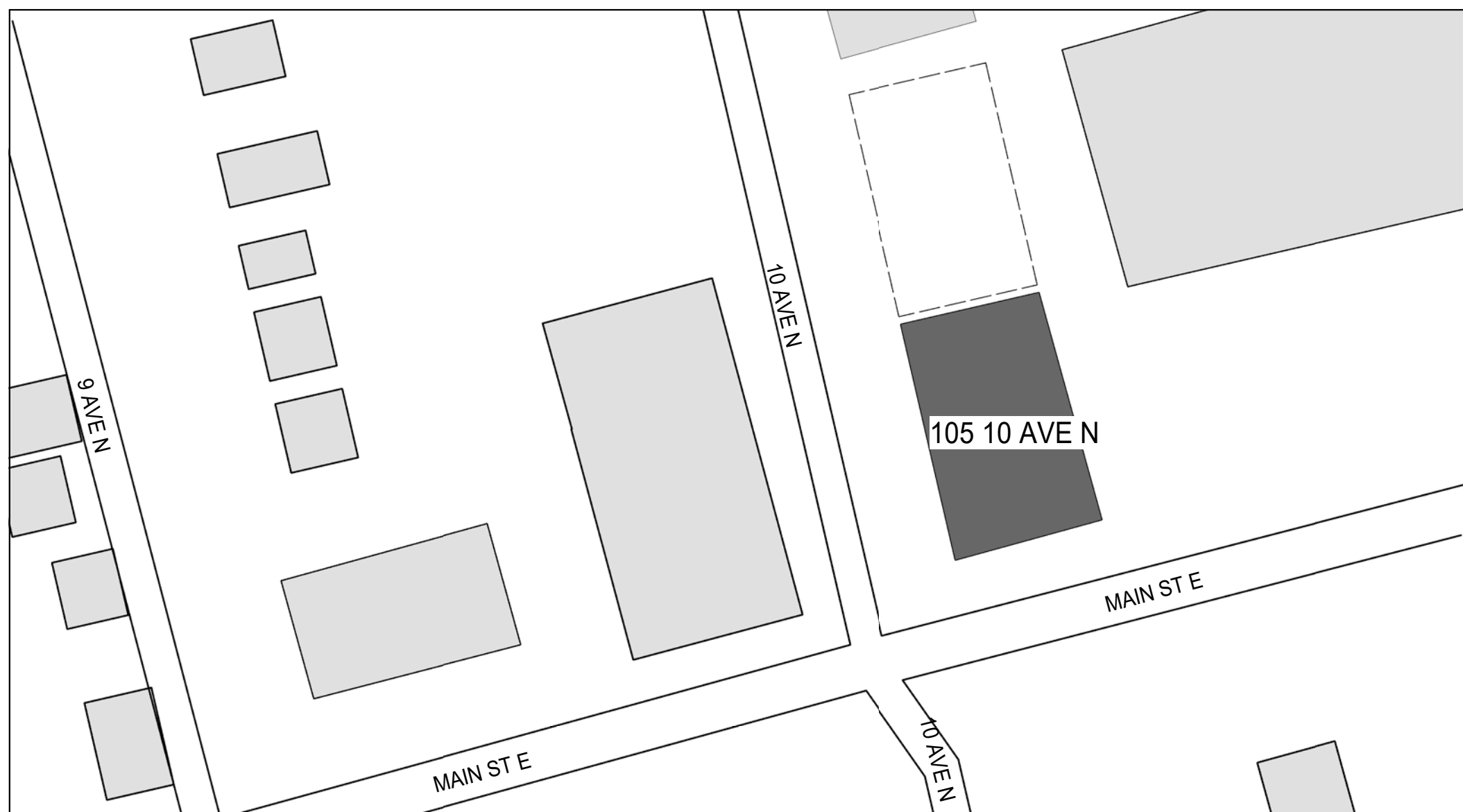
MECHANICAL
M1 EXISTING/DEMO & NEW PLUMBING PLANS AND NOTES
M2 EXISTING/DEMO & NEW HVAC PLAN AND NOTES
M3 MECHANICAL SCHEDULES

ELECTRICAL
E1 EXISTING/DEMO AND NEW MAIN FLOOR LIGHTING PLANS AND SYMBOL SCHEDULE
E2 EXISTING/DEMO & NEW MAIN FLOOR & PARTIAL ROOF POWER PLANS
E3 CRAWLSPACE NEW FIRE ALARM SYSTEMS PLAN & EXTG/DEMO AND NEW ATTIC FIRE ALARM SYSTEMS PLAN
E4 EXTG/DEMO AND NEW MAIN FLOOR FIRE ALARM SYSTEMS PLAN
E5 ELECTRICAL SCHEDULE AND MODIFIED SINGLE LINE DISTRIBUTION DIAGRAM
E6 FIRE ALARM RISER DIAGRAM

TELECOMMUNICATIONS
T1 EXISTING/DEMO AND MAIN FLOOR TELECOMMUNICATIONS & INTRUSION ALARM SYSTEM
T2 MAIN FLOOR VIDEO SURVEILLANCE, ACCESS CONTROL PLAN AND SINGLE LINE DIAGRAMS

BUILDING CODE

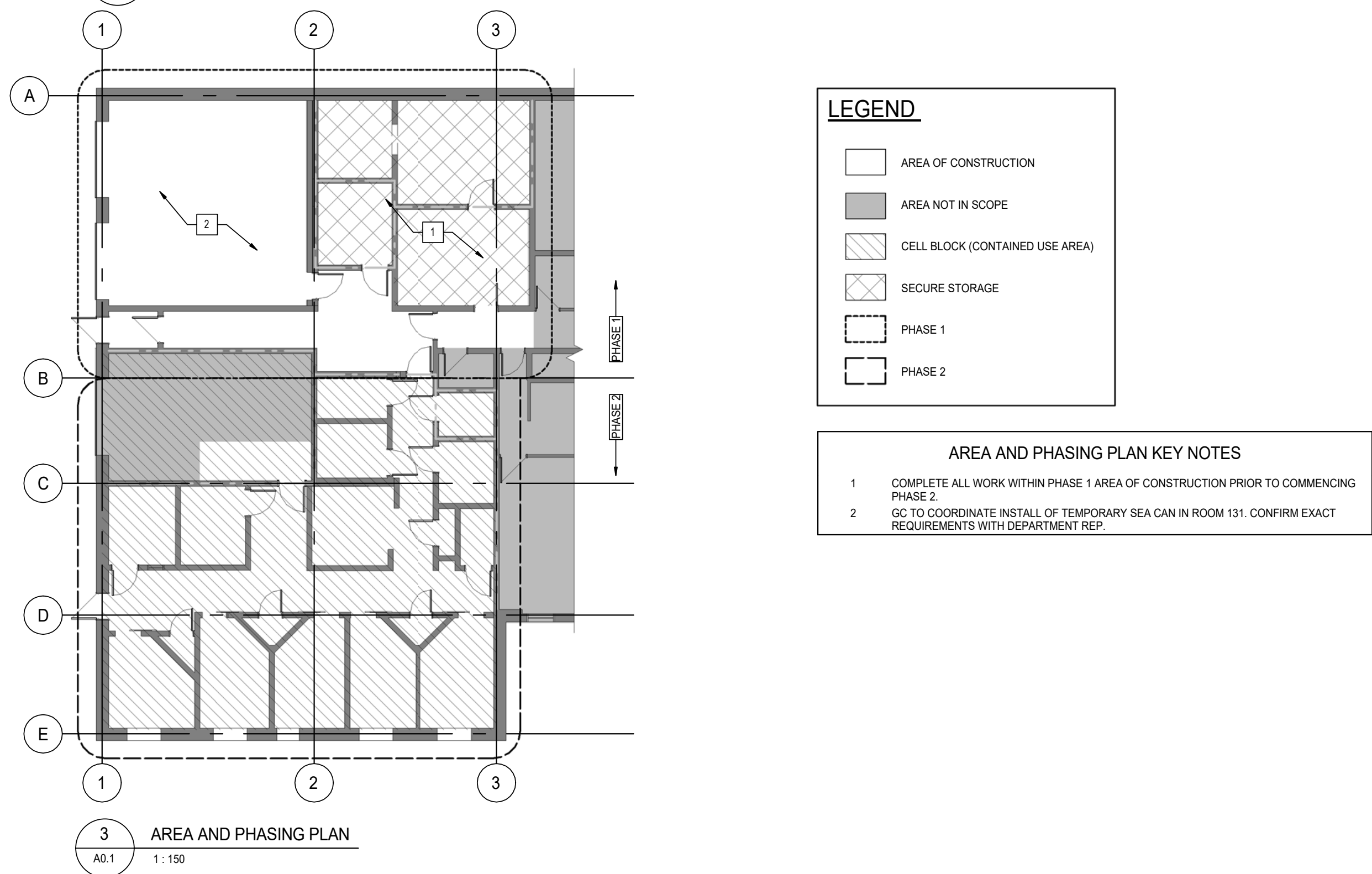
ITEM	MANITOBA BUILDING CODE 2011	NBC REFERENCE (PART 3)																									
1	PROJECT INFORMATION: NAME OF PROJECT: FEDERAL BUILDING LOCATION: 105 10TH AVE N, SWAN RIVER, MB, R0L 1Z0																										
2	PROJECT DESCRIPTION: <input type="checkbox"/> NEW <input type="checkbox"/> ADDITION <input checked="" type="checkbox"/> ALTERATION <input type="checkbox"/> CHANGE OF USE	1.3.3 (DIV. A PART 1)																									
3	MAJOR OCCUPANCY(IES): <table><tr><td>B-1</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table> MULTIPLE MAJOR OCCUPANCIES: <table><tr><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table> FIRE SEPARATION (FS) REQUIRED (FRR HRS.): <table><tr><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>	B-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.1.2.1.(1) & 3.2.2.8 REFER TO MAJOR OCCUPANCY DEFINITION				
B-1	-	-	-	-	-	-																					
-	-	-	-	-	-	-																					
-	-	-	-	-	-	-																					
4	BUILDING AREA (m ²): EXISTING: 745 m² NEW: 0 m² TOTAL: 745 m² FIREWALL: <input type="checkbox"/> REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED RATING AND GRID LOCATION: N/A	1.4.1 (DIV. A PART 1) 3.1.10																									
6	NUMBER OF STORIES: ABOVE GRADE: 1 BELOW GRADE: 0	3.2.1.1 & 1.4.1.2																									
7	NUMBER OF STREETS/FIRE FIGHTER ACCESS: <input type="checkbox"/> 1 STREET <input checked="" type="checkbox"/> 2 STREETS <input type="checkbox"/> 3 STREETS <input checked="" type="checkbox"/> FIRE FIGHTER ACCESS	3.2.2.10 & 3.2.2.5																									
8	BUILDING CLASSIFICATION: 3.2.2.3.7 DESCRIPTION: GROUP B, DIVISION 1, UP TO 3 STOREYS, SPRINKLERED	3.2.2.20-88																									
9	SPRINKLER SYSTEM PROPOSED: <input checked="" type="checkbox"/> REQUIRED <input type="checkbox"/> BASEMENT ONLY <input type="checkbox"/> NOT REQUIRED NOTE: SPRINKLER SYSTEM HAS NOT BEEN INCLUDED, THIS IS PER DIRECTION OF RCMP REGIONAL FIRE PROTECTION ENGINEER.	3.2.2.20-88 & 3.2.1.5																									
10	FIRE ALARM REQUIRED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	3.2.4 & 3.4.5.1																									
11	STANDPIPE REQUIRED: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3.2.5.8																									
12	PERMITTED CONSTRUCTION: <input type="checkbox"/> COMBUSTIBLE <input checked="" type="checkbox"/> NON-COMBUSTIBLE <input type="checkbox"/> BOTH	3.2.2.20-88																									
13	REQUIRED FIRE RESISTANCE RATING (FRR): HORIZONTAL ASSEMBLIES FRR (HOURS): FLOORS: 1 HR ROOF: 1 HR (VOLUNTARY) MEZZANINE: N/A FIRESTOPS IN CONCEALED SPACES: CRAWLSPACE- MAX COMPARTMENT AREA: 600 M² MAX DIMENSION: 30 M	3.2.2.20-88 & 3.2.1.4 3.1.11.6																									
15	MEZZANINE(S) AREA: 0 m² OPEN MEZZANINE (MAX 40%): <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO ENCLOSED MEZZANINE (MAX 10%): <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO INTERCONNECTED FLOOR SPACE: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3.2.1.1.(3)&(6) 3.2.8.2.(1) 3.2.8.2.(6) 3.2.8.3 - 3.2.8.9																									
16	OCCUPANT LOAD BASED ON: <input type="checkbox"/> m ² /PERSON <input checked="" type="checkbox"/> DESIGN OF BUILDING <table><thead><tr><th>FLOOR</th><th>OCCUPANCY</th><th>LOAD</th><th>PERSONS</th></tr></thead><tbody><tr><td>MAIN</td><td>DETENTION CELLS</td><td>5 CELLS X 1 PERSON</td><td>5</td></tr><tr><td>MAIN</td><td>DETENTION ANCILLARY SPACES</td><td>32 m² / (0.8 m² / PERSON)</td><td>3</td></tr><tr><td>MAIN</td><td>OFFICE</td><td>192.4 m² / (09.8 m² / PERSON)</td><td>20</td></tr><tr><td></td><td>TOTAL</td><td></td><td>28</td></tr></tbody></table>	FLOOR	OCCUPANCY	LOAD	PERSONS	MAIN	DETENTION CELLS	5 CELLS X 1 PERSON	5	MAIN	DETENTION ANCILLARY SPACES	32 m ² / (0.8 m ² / PERSON)	3	MAIN	OFFICE	192.4 m ² / (09.8 m ² / PERSON)	20		TOTAL		28	3.1.17					
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	TOTAL		28																								
17	EXIT AND EGRESS 20.1 CORRIDOR AND TRAVEL DISTANCE MAX TRAVEL DISTANCE: 30m MIN CORRIDOR WIDTH: 1100 mm DEAD END CORRIDOR MAX TRAVEL DISTANCE: 6m EXIT CLEAR WIDTH: 825mm 20.3 EXIT CAPACITY DOORS <table><thead><tr><th>FLOOR</th><th># OF DOORS</th><th>DOOR WIDTH (mm)</th><th>WIDTH PER PERSON</th><th>CAPACITY OF DOORS</th></tr></thead><tbody><tr><td>MAIN</td><td>3</td><td>860</td><td>18.4</td><td>140</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></tbody></table> ADEQUATE EXIT CAPACITY PROVIDED: YES/NO: YES OTHER EXIT & EGRESS CONSIDERATIONS: <div></div>	FLOOR	# OF DOORS	DOOR WIDTH (mm)	WIDTH PER PERSON	CAPACITY OF DOORS	MAIN	3	860	18.4	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3.1.9 & 3.8.1.3 3.3.1.9 3.3.1.5 & 3.4.2.2 3.4.2.4-5 3.4.3 3.4.6.3 3.4.3.2 3.4.3.2.(7)
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-	-	-	-	-																							
-	-	-	-	-																							
-	-	-	-	-																							
18	SAFETY IN FLOOR AREAS 21.1 COMPARTMENTALIZATION SUITES: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO PUBLIC CORRIDORS: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO N/A FRR REQUIRED N/A FRR REQUIRED 21.2 PERMITTED AREA AND TRAVEL DISTANCE SERVED BY A SINGLE MEANS OF EGRESS OCCUPANCY (GROUP): 75 MAX. AREA: 10 MAX. DISTANCE: 10 M GROUP B, DIVISION 1	3.3.1.1 & 3.3.1.6 3.4.2.4 3.3.1.4 3.3.2.6 3.3.1.5																									
19	22.1 ADDITIONAL REQUIREMENTS FOR SPECIFIC ROOMS OR SUITES DESCRIPTION: FIRE SEPARATION REQ'D CONTAINED USE AREA: 1 HR FRR REQUIRED JANITOR ROOM (RM 132): 1 HR FRR REQUIRED OTHER REQUIREMENTS NOTE: VOLUNTARY 1HR FIRE SEPARATIONS PROVIDED AROUND ROOMS 125A/B, 127 AND 147.	3.3.1.21 & 3.3.1.22																									
20	HEALTH AND BARRIER-FREE DESIGN 16.1 WASHROOM REQUIREMENTS OCCUPANCY (TYPE) # OF PEOPLE WC'S REQ'D DETENTION BLOCK: 8 1 UNISEX OFFICES: 20 1 MALE, 1 FEMALE TOTAL: 3 16.2 WASHROOM PROVIDED LADIES: 1 MENS: 2 UNISEX: 6 1 2 6 1 2 6 NB. FLOORS CONSIDERED BY ACCESSIBLE REQUIRE BF WC'S WITHIN 45M OF NON-ACCESSIBLE WC'S.	3.8 3.1.17 3.7 3.8.2.3																									
21	BUILDING CODE COMPLIANCE ALTERNATIVE SOLUTIONS PROPOSED: <input type="checkbox"/> YES (EXPLAIN) <input type="checkbox"/> NO DOCUMENTATION REFERENCE: <div></div>	1.2.1.1 (DIV. A) 2.3.1 (DIV. C)																									



1 SITE PLAN
A0.1 1:200



2 KEY PLAN
A0.1 1:150

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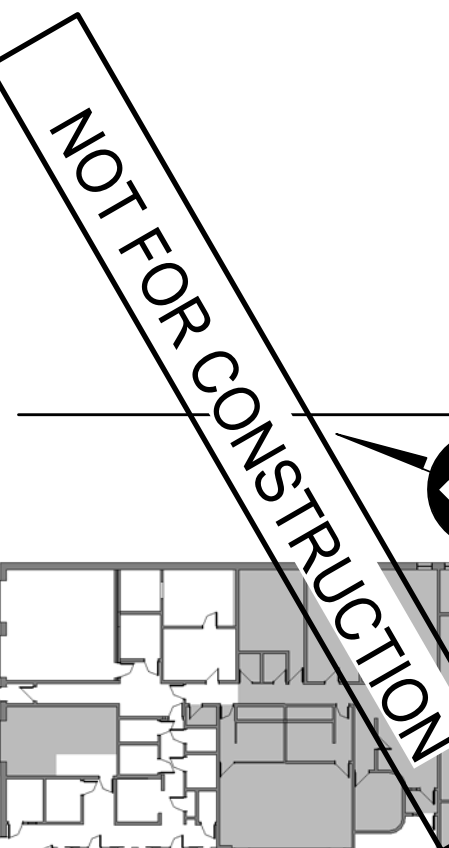
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KEY PLAN

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ISSUES / REVISIONS
1. 2018/02/16 PRELIMINARY 50% CONSTRUCTION DRAWINGS
2. 2018/03/06 CLASS B ESTIMATE DRAWINGS
3. 2018/03/19 50% CONSTRUCTION DRAWINGS FOR REVIEW
4. 2018/06/15 99% CLASS A ESTIMATE DRAWINGS
5. 2018/07/05 99% CONSTRUCTION DRAWINGS FOR REVIEW
6. 2018/08/20 100% TENDER DOCUMENTS

CLIENT
FEDERAL BUILDING

PROJECT
INTERIOR RENOVATIONS

CONTENTS
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PROJECT INFORMATION, SITE & KEY PLAN

PROJECT NUMBER
PROJECT 286

DATE
08/20/2018

SHEET NUMBER
A0.1

INTERIOR PARTITION

- ALL FIRE-RATED PARTITIONS (ASSEMBLIES) AND/OR FIRE COMPARTMENTS/SEPARATIONS ARE TO EXTEND FROM THE FLOOR SLAB TO THE U/S OF THE FLOOR OR ROOF DECK OVER TO PROVIDE A CONTINUOUS SMOKE TIGHT BARRIER. IN SITUATIONS WHERE THE FIRE RATED ASSEMBLY ABUTS OTHER NON-FIRE RATED OR LESSER FIRE RATED PARTITIONS, INTERIOR OR EXTERIOR, STUD SPACES, CANOPIES, ROOF OVERHANGS OR OTHER SIMILAR CONDITIONS WITHIN THE BUILDING ENVELOPE THAT INTERRUPT THE CONTINUITY OF THE SEPARATION IN WHOLE OR IN PART, THE SEPARATION MUST BE EXTENDED INTO THE CAVITY OR OVERHANG AND TERMINATE AT THE EXTERIOR FINISH TO PROVIDE A CONTINUOUS SMOKE TIGHT BARRIER. PROVIDE CONTINUOUS U.L.C. APPROVED FIRE STOP SEALANT (MATCHING WALL RATING) AT ABUTMENTS.

REFER TO MECHANICAL DRAWINGS FOR CONDITIONS WHERE DUCTWORK OR PIPING CONFLICT WITH FIRE RATED PARTITIONS/SEPARATIONS. CONSTRUCT A FIRE RATED ENCLOSURE EQUAL TO THE RATED PARTITION/SEPARATION WITH SHUNT WALL CONSTRUCTION AS REQUIRED UNLESS DETAILED OTHERWISE TO EXTEND AND MAINTAIN CONTINUITY OF THE FIRE SEPARATION AROUND THE DUCT OR PIPING.

ALL PENETRATIONS THRU FIRE RATED PARTITIONS ARE TO BE FILLED AND SEALED WITH A U.L.C. APPROVED FIRE STOPPING SYSTEM TO ENSURE A CONTINUOUS SMOKE-TIGHT BARRIER. PROVIDE SUITABLE ESCUTCHEON TYPE TRIMS AND/OR CLOSURES WHERE THE PENETRATIONS WILL NOT BE CONCEALED FROM VIEW. SERVICE ROOMS, STORAGE ROOMS AND SIMILAR LOCATIONS WILL NOT REQUIRE ESCUTCHEON TRIMS. GYPSUM BOARD IS TO BE TIGHTLY FITTED AROUND ELEC ROUGH IN BOXES.

ALL FIRE RATED PARTITIONS (ASSEMBLY) ARE TO BE TIGHT FITTED TO ALL FLOOR AND/OR ROOF ASSEMBLIES. PROVIDE CONTINUOUS U.L.C. APPROVED FIRE STOP SEALANT (MATCHING WALL RATING) AT TOP AND BOTTOM OF WALL ASSEMBLY. WHERE SEALANT WILL BE EXPOSED TO VIEW UTILIZE PAINTABLE SYSTEM.

ALL NON-RATED FIRE PARTITIONS (SMOKE SEPARATIONS) SHALL BE CONSTRUCTED AS FIRE PARTITIONS WITHOUT A FIRE RESISTANCE RATING PROVIDING A CONTINUOUS SMOKE TIGHT BARRIER. ALL PENETRATIONS ARE TO BE SEALED IN ACCORDANCE WITH COMMENTS ABOVE.

- FIRE-RATINGS OF INTERIOR PARTITIONS SHALL BE CONTINUOUS ON ALL SIDES, BEHIND RECESSED PANELS, HEATERS, FIXTURES AND ACCESSORIES.

3. SOUND-RATED PARTITIONS (ASSEMBLY) TO BE READ IN CONJUNCTION WITH ALL INTERIOR PARTITION TYPES NOTED WITH STC (SOUND TRANSMISSION CLASS) RATING AND/OR WHERE BATT INSULATION IS SHOWN IN PARTITION CAVITY, AND ARE TO EXTEND TO THE UNDERSIDE OF FLOOR OR ROOF ASSEMBLY ABOVE.

PROVIDE CONTINUOUS ACOUSTICAL CAULKING BOTH SIDES AT FLOOR AND CEILING. ACOUSTICALLY SEAL ALL PENETRATIONS INCLUDING MECHANICAL PIPING AND ELECTRICAL CONDUITS WITH ACOUSTIC SEALANT COMPATIBLE WITH THE GYPSUM BOARD CLADDING. WHERE PENETRATIONS ARE NOT CONCEALED PROVIDE PAINTABLE SEALANT OR TRIM. GYPSUM BOARD IS TO BE TIGHTLY FITTED AROUND ELEC ROUGH IN BOXES. ALL GAPS TO BE ACOUSTIC SEALED.

- WATER & MOLD RESISTANT GYPSUM BOARD SHALL BE USED IN PLACE OF STANDARD GYPSUM BOARD AT ALL WASHROOMS. WHERE A WALL ASSEMBLY CALLS FOR MORE THAN ONE LAYER OF GYPSUM BOARD WATER & MOLD RESISTANT GYPSUM BOARD IS TO BE INSTALLED AS THE OUTERMOST LAYER. PROVIDE FIRE RATED WATER & MOLD RESISTANT GYPSUM BOARD WHERE WALL TYPES REQUIRE A TYPE 'X' FIRE RATED BOARD.

- BACK TO BACK ELECTRICAL BOXES NOT PERMITTED. OFFSET ELECTRICAL BOXES 300mm MIN. IN ALL CASES UNLESS OTHERWISE NOTED.

- AT LOCATIONS WHERE DIFFERENT THICKNESSES OF GYPSUM BOARD ABUT, THE FACES SHALL BE FLUSH.

- WALL SEGMENTS OVER DOORS, SIDELIGHTS OR OTHER OPENINGS SHALL BE FIRE/SMOKE RATED TO THE SAME DEGREE (I.E. 34 HOUR, 1 HOUR ETC.) AS THE ADJACENT WALLS.

- THE GENERAL CONTRACTOR IS TO COORDINATE AND PROVIDE ADEQUATE WOOD BLOCKING IN STUD WALLS AND PARTITIONS FOR SECURE FASTENING OF ALL WALL-MOUNTED MILLWORK, EQUIPMENT FIXTURES, ACCESSORIES, AND MECHANICAL OR ELECTRICAL PANELS. MOUNTING HEIGHTS ARE TO BE CONFIRMED WITH CONSULTANT WHERE NOT SHOWN ON THE DRAWINGS.

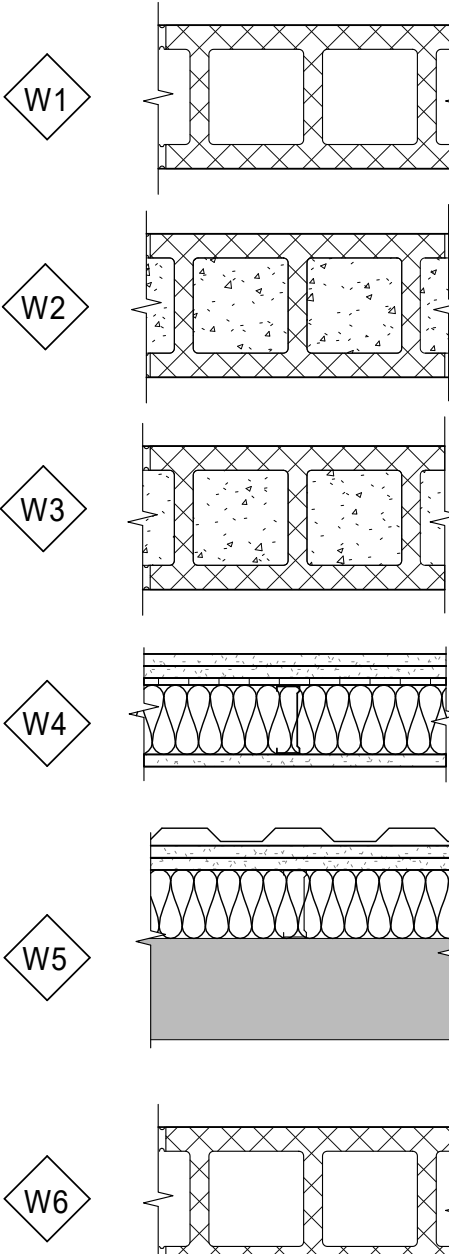
- THE GENERAL CONTRACTOR IS TO COORDINATE AND PROVIDE 19mm PRE-PAINTED PLYWOOD BACKBOARDS AT LOCATIONS NOTED ON THE MECHANICAL AND ELECTRICAL DRAWINGS FOR PANELS AND CONTROLS. ETC. MOUNTING HEIGHTS ARE TO BE CONFIRMED WITH THE CONSULTANT WHERE NOT SHOWN ON THE DRAWINGS.

- ALL EXPOSED GYPSUM BOARD, MISCELLANEOUS METALS, CONCRETE BLOCK TO BE PAINTED UNLESS NOTED OTHERWISE.

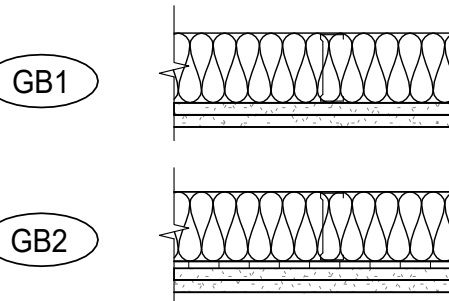
- INTERIOR DIMENSIONS ARE TAKEN TO FACE OF STUD UNLESS NOTED/SHOWN OTHERWISE.

- REFER TO PROJECT MANUAL FOR INTERIOR FINISHES AND SCHEDULES.

INTERIOR WALL TYPES



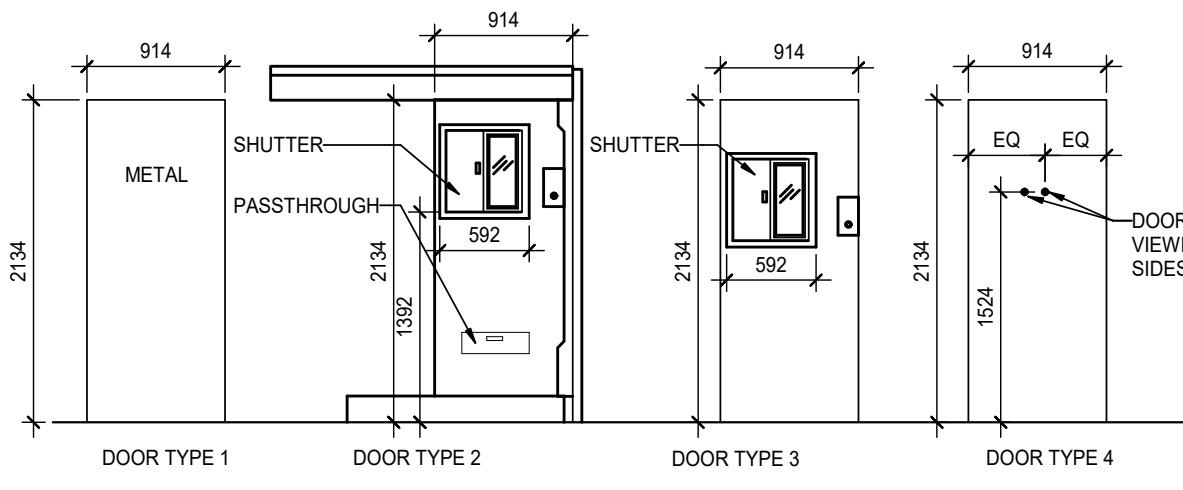
INTERIOR CEILING TYPES



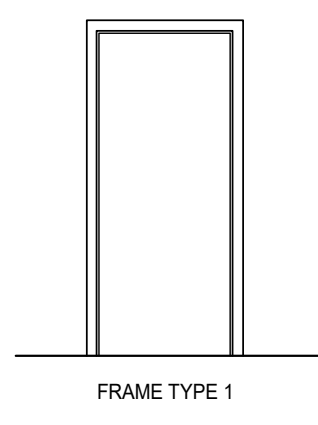
GENERAL NOTES

- THE DRAWINGS SHALL NOT BE SCALED FOR INFORMATION.
- THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY HIMSELF THAT ALL DIMENSIONS, DATUMS AND DETAILED INFORMATION SHOWN ARE CORRECT.
- THE CONTRACTOR IS TO REPORT ANY DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS THRU FLOORS, WALLS AND CEILINGS INCLUDING BUT NOT LIMITED TO DUCT, PIPING AND ELECTRICAL RISERS.
- PRODUCTS AND MATERIALS ARE TO BE USED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. DIMENSIONAL PROPERTIES OF THE MATERIALS ARE NOTED IN MILLIMETERS UNLESS INDICATED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND MAKE GOOD ALL EXISTING SURFACES ADJACENT NEW CONSTRUCTION AND ALL EXISTING FINISHES AFFECTED BY THE CONSTRUCTION.
- DIMENSIONS ARE TAKEN TO FACE OF STUD, CONCRETE BLOCK OR EXTERIOR SHEATHING UNLESS NOTED/SHOWN OTHERWISE. CRITICAL DIMENSIONS ARE CLEAR WIDTH.

DOOR TYPES



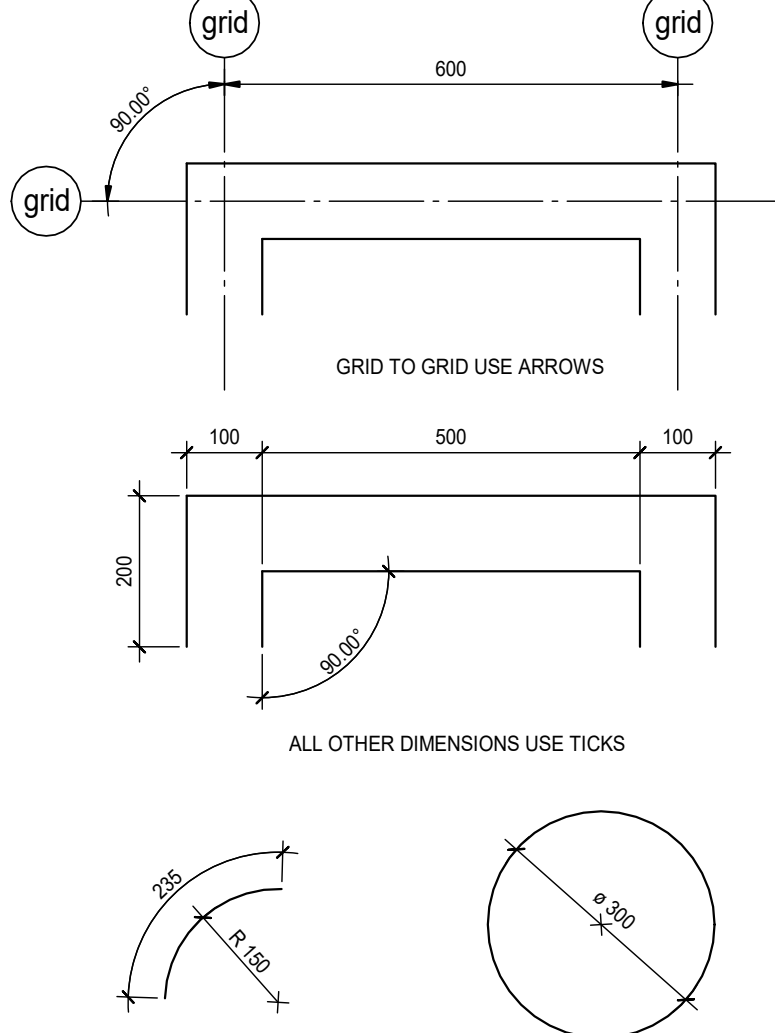
FRAME TYPES



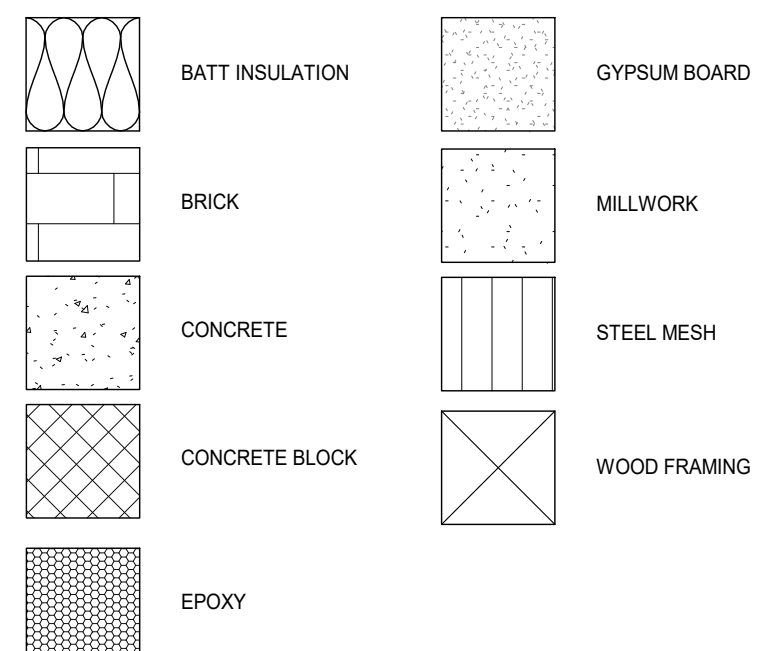
ABBREVIATION LEGEND

CH	COAT HOOK
CRIT	CRITICAL
CW	COMPLETE WITH
D1	DESK
GB	GRAB BAR
GWIB	GYPSUM WALL BOARD
LS	LIVSCAN
MIN	MINIMUM
MR	MIRROR
O/C	ON CENTRE
PT	PAPER TOWEL DISPENSER
RM	ROOM
R.O.	ROUGH OPENING
SH	SHIELING
SK	SINK
SO	SOAP DISPENSER
TO	TOILET
TPD	TOILET PAPER DISPENSER
TYP	TYPICAL
WD	WASHER/DRYER

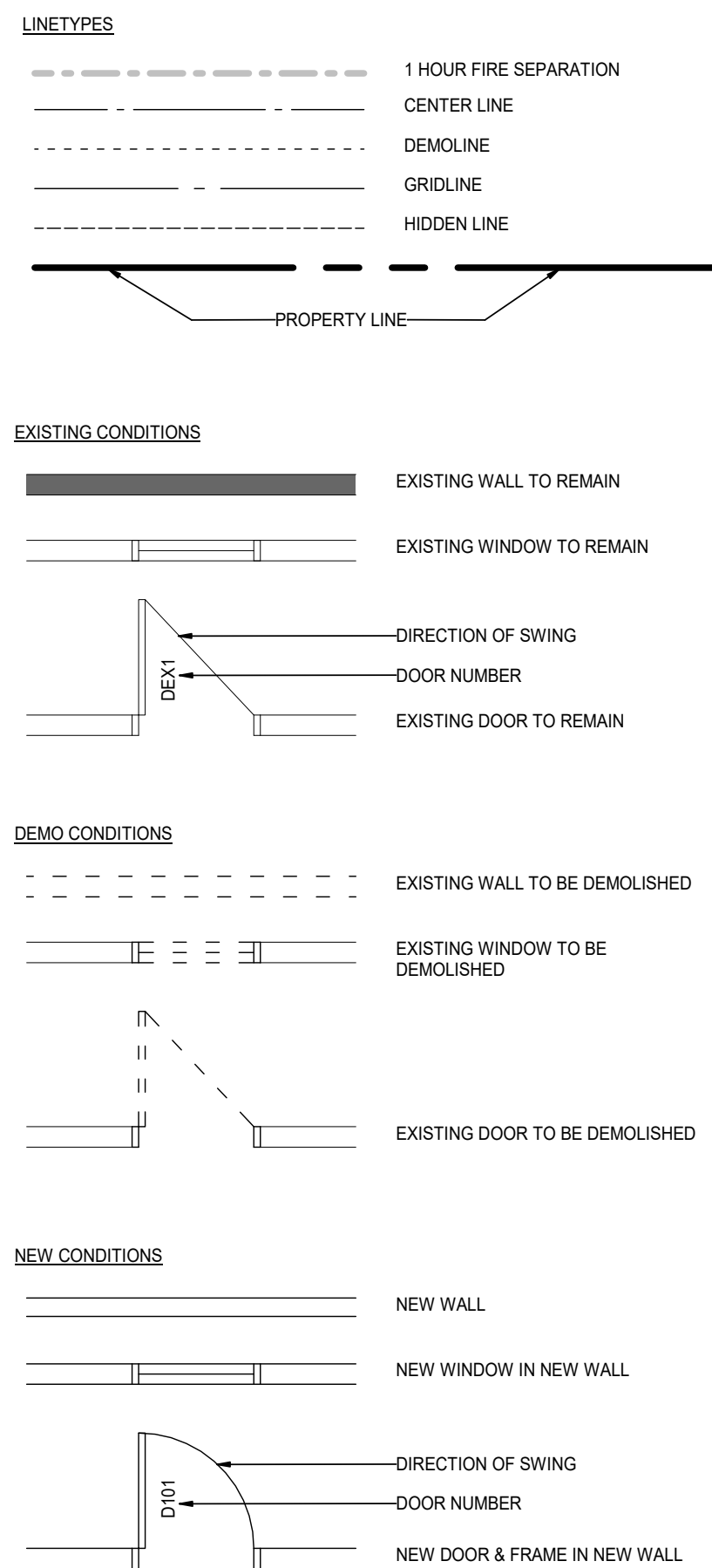
DIMENSION LEGEND



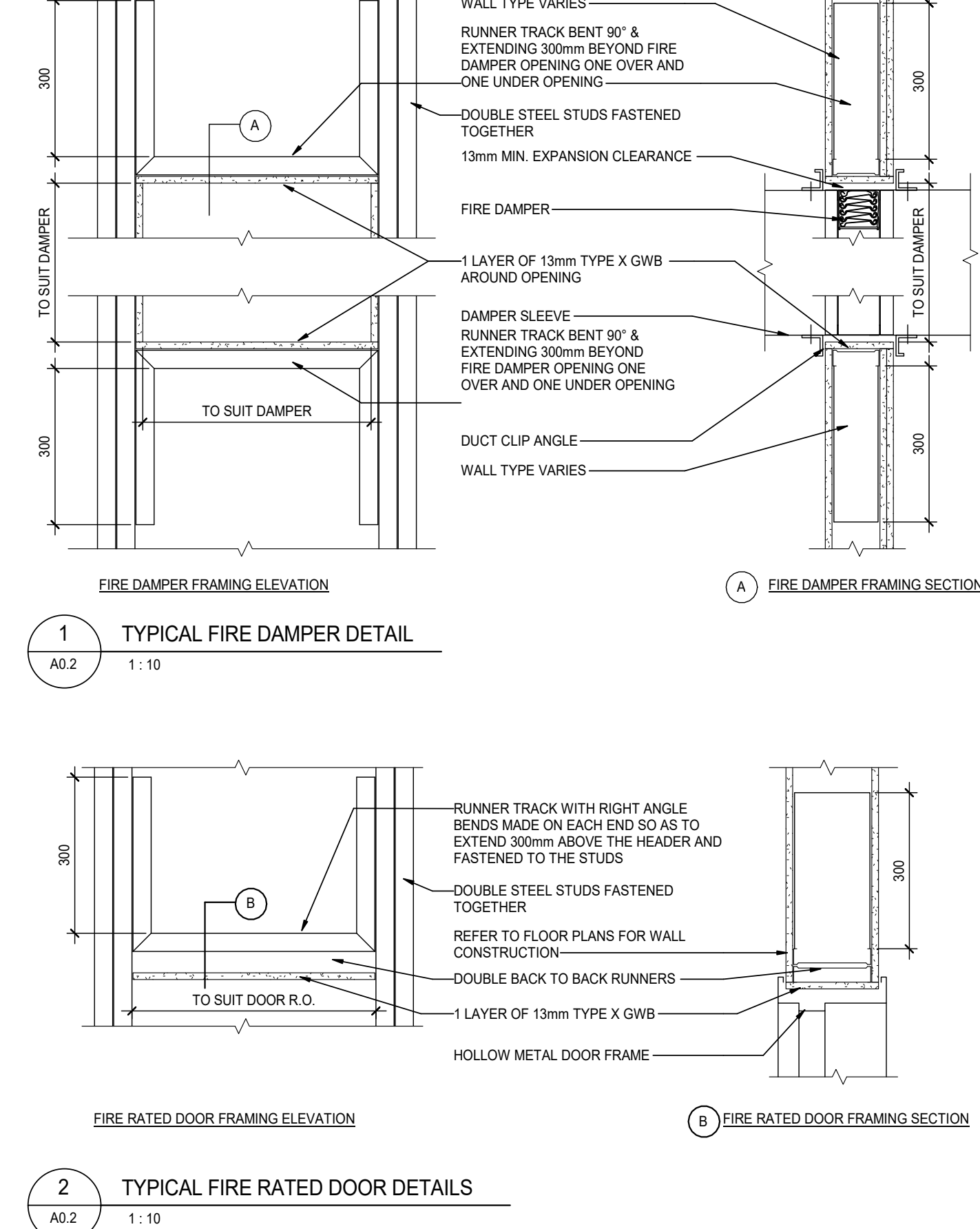
MATERIAL PATTERNS



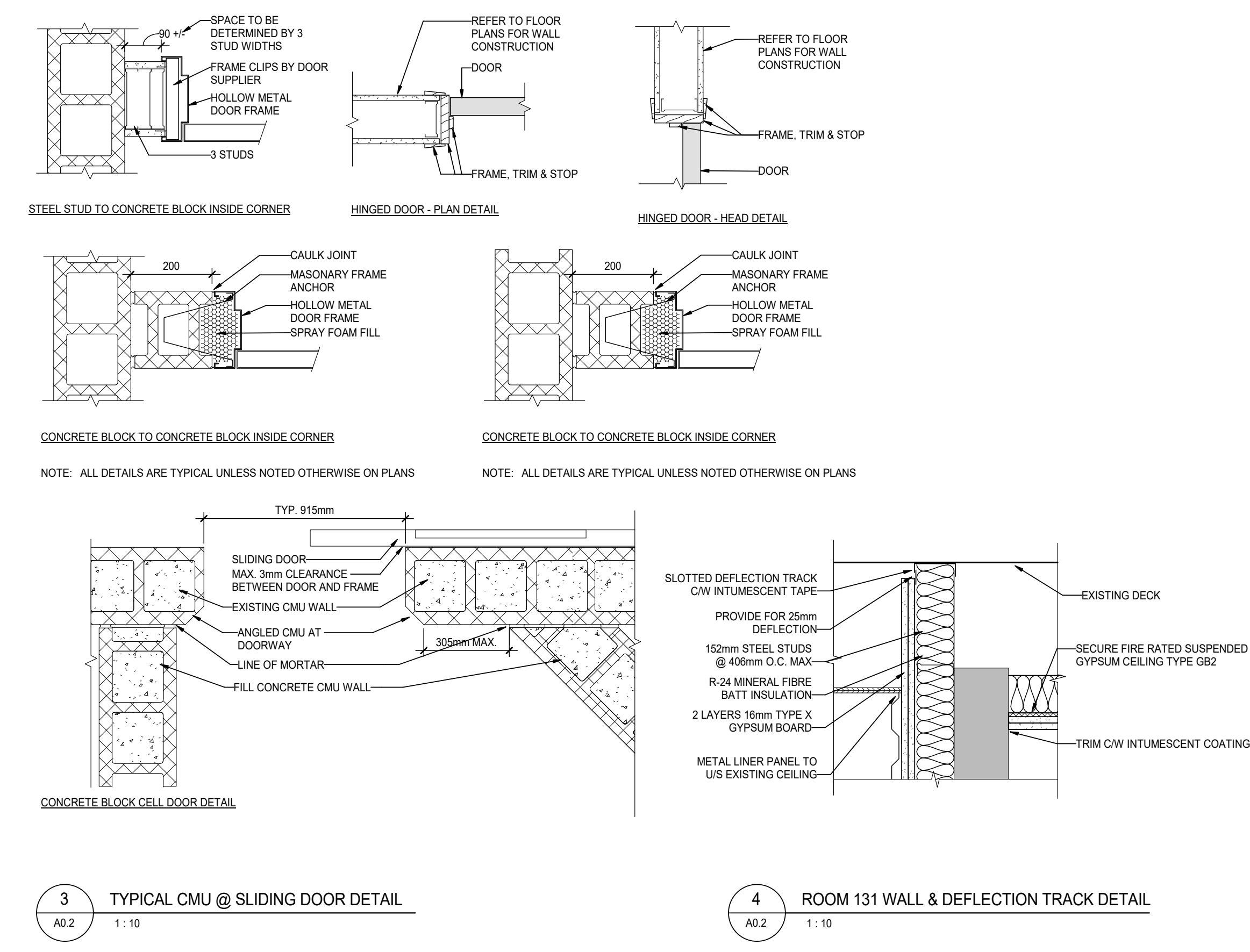
DRAWING LEGEND



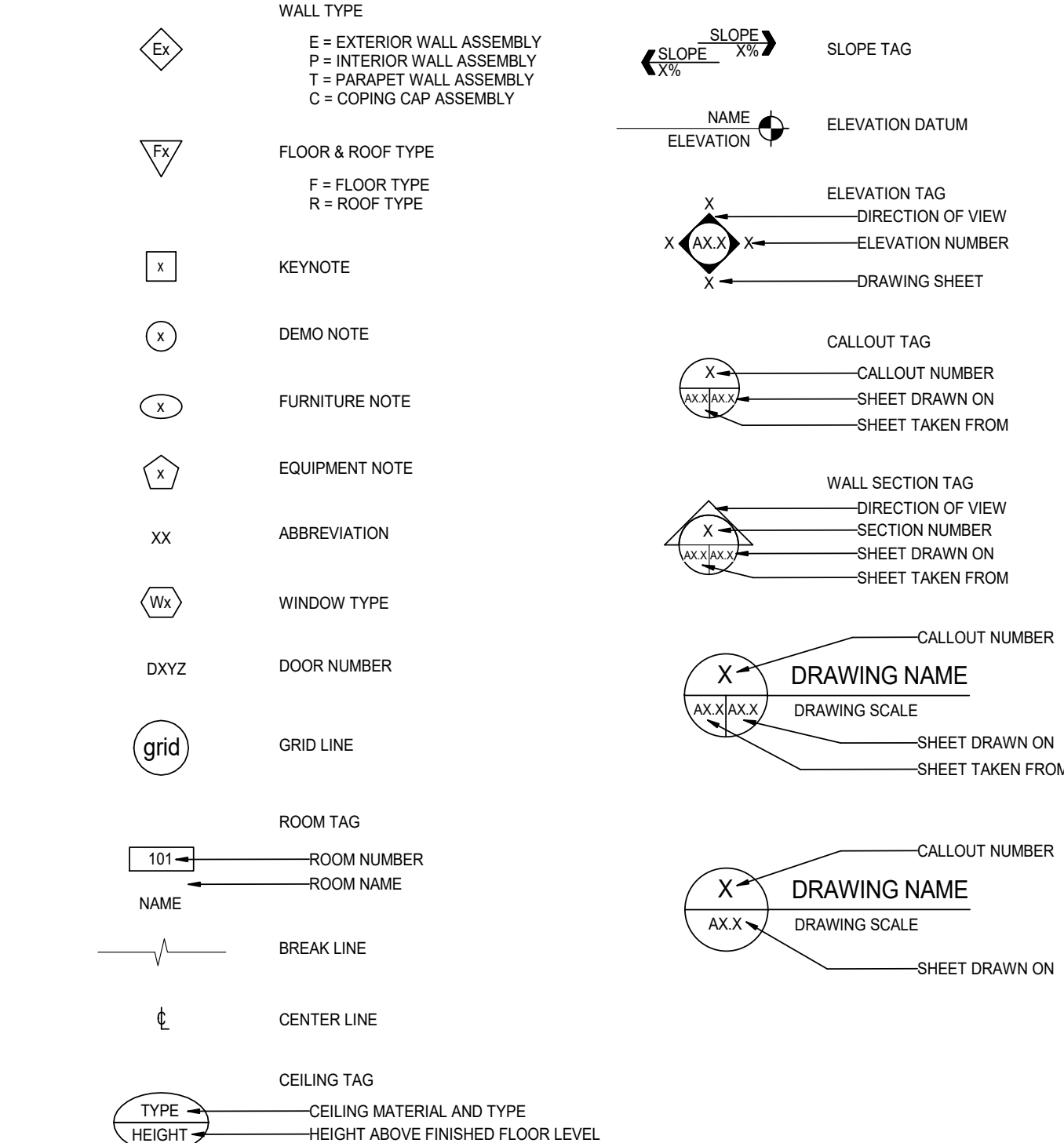
TYPICAL



TYPICAL



SYMBOL LEGEND



REPUBLIC ARCHITECTURE INC

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SHEET NUMBER

A0.2

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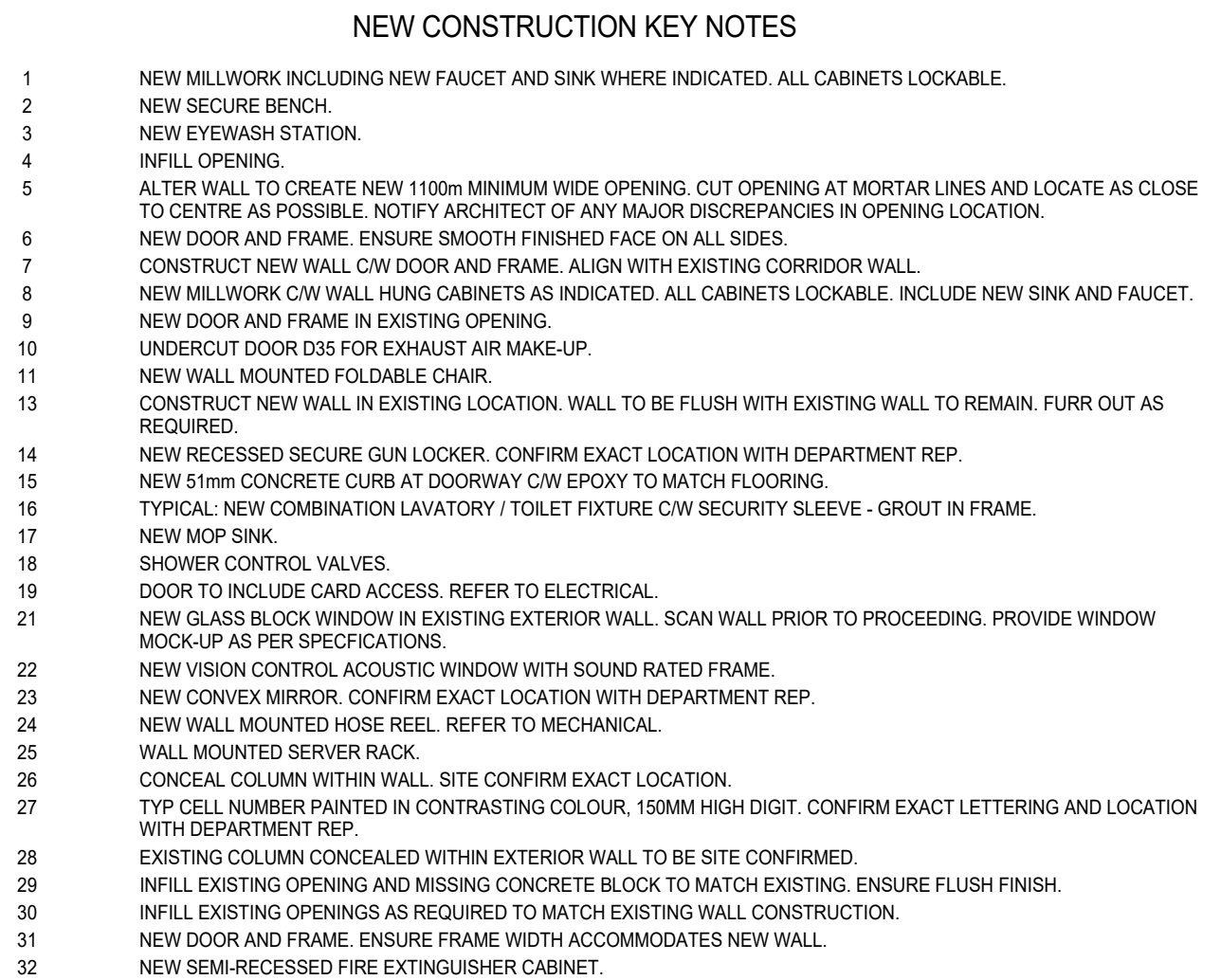
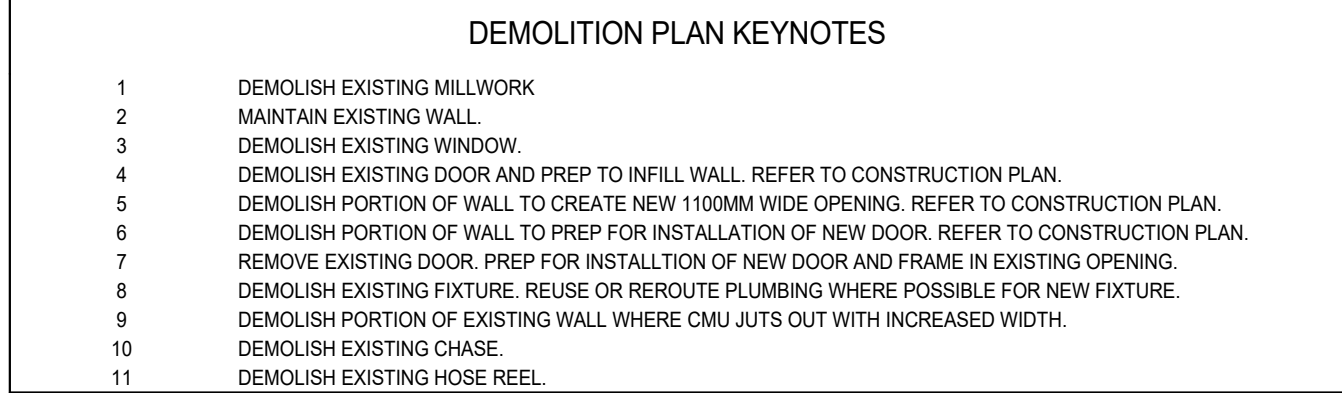
KEY PLAN

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






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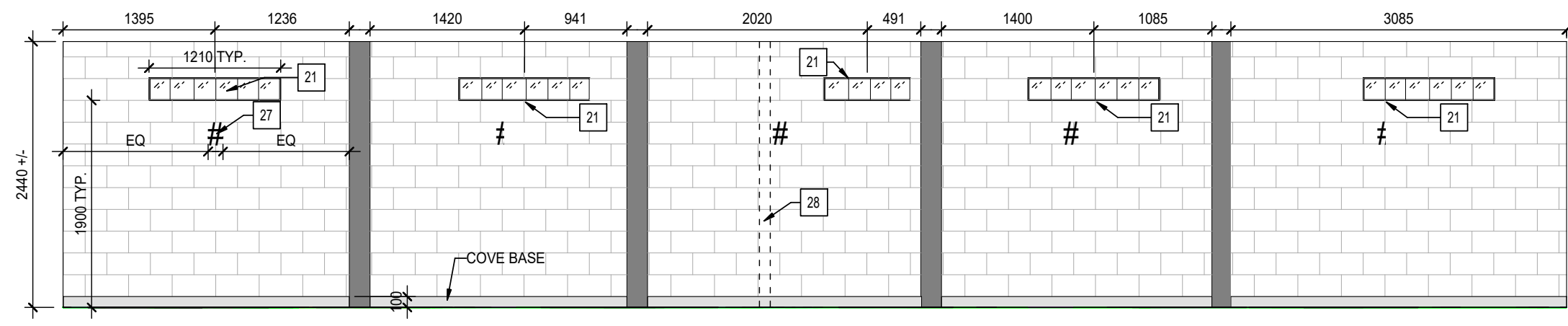
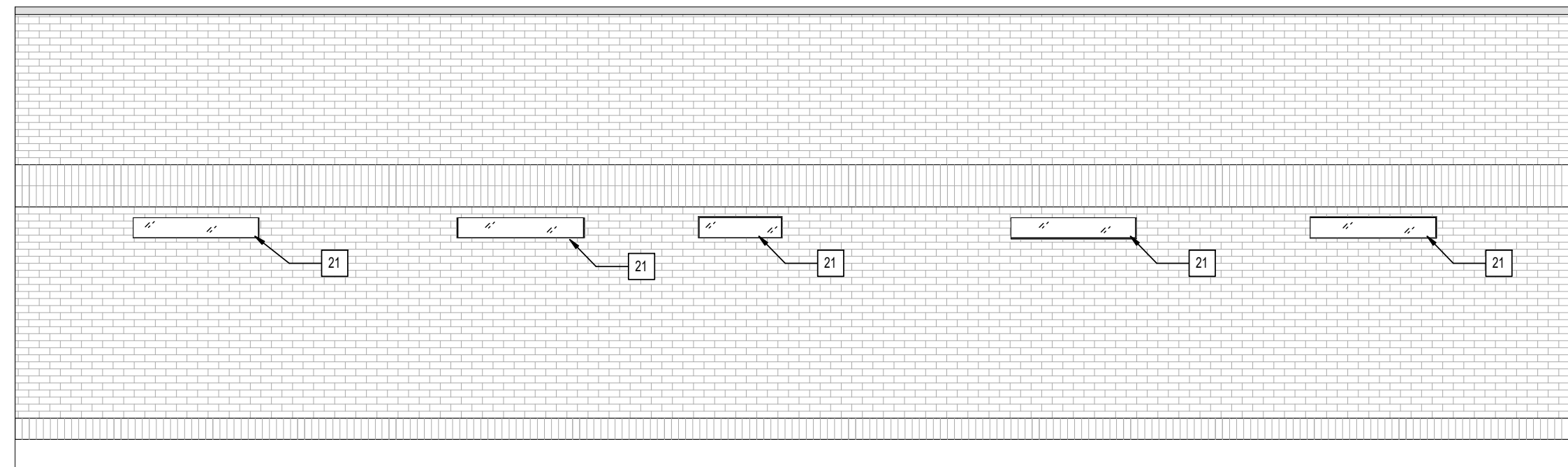
1. 2018/02/16 PRELIMINARY 50% CONSTRUCTION DRAWINGS
2. 2018/03/06 CLASS B ESTIMATE DRAWINGS
3. 2018/03/19 50% CONSTRUCTION DRAWINGS FOR REVIEW
4. 2018/06/15 99% CLASS A ESTIMATE DRAWINGS
4. 2018/07/05 99% CONSTRUCTION DRAWINGS FOR REVIEW
5. 2018/08/20 100% TENDER DOCUMENTS

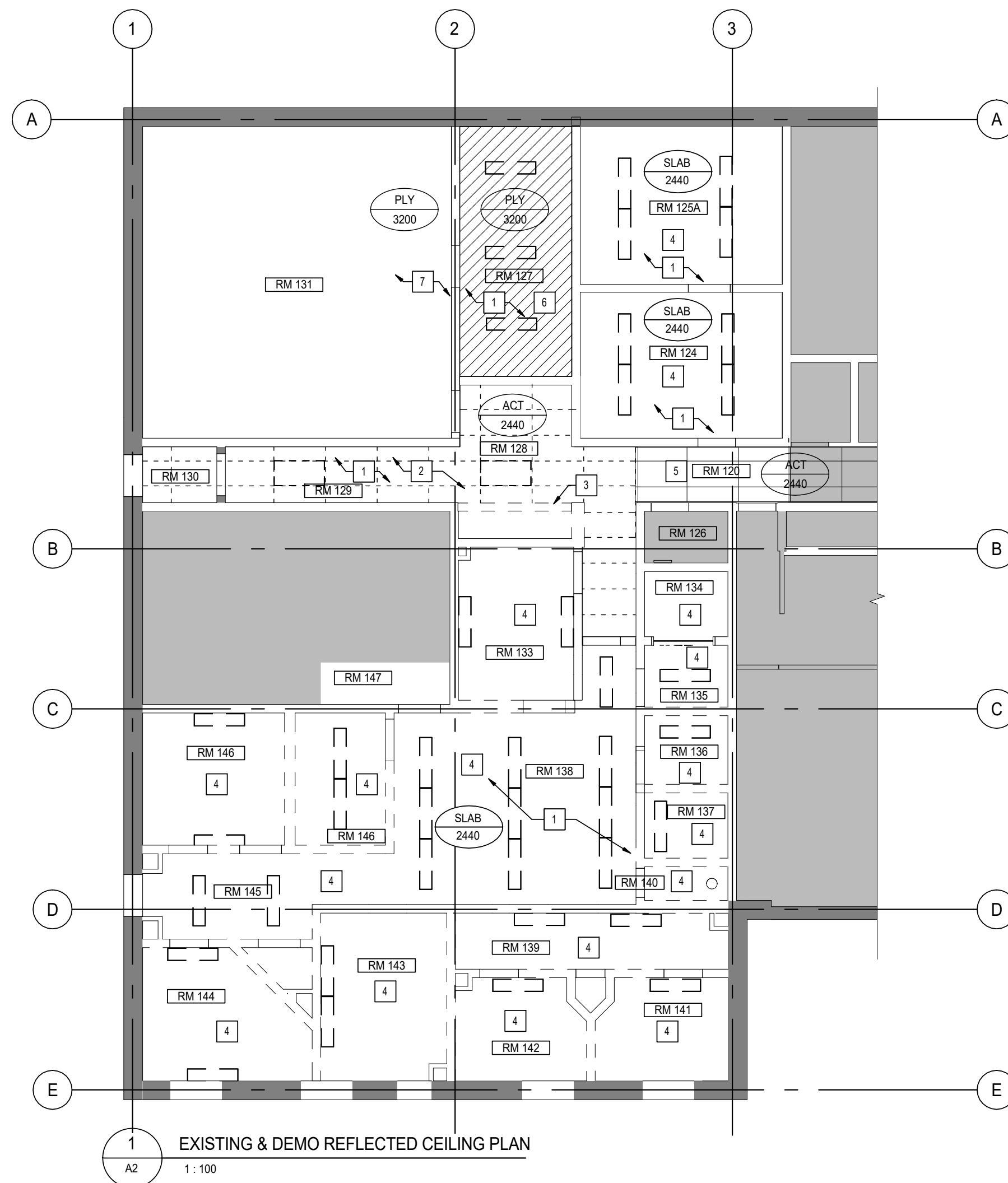
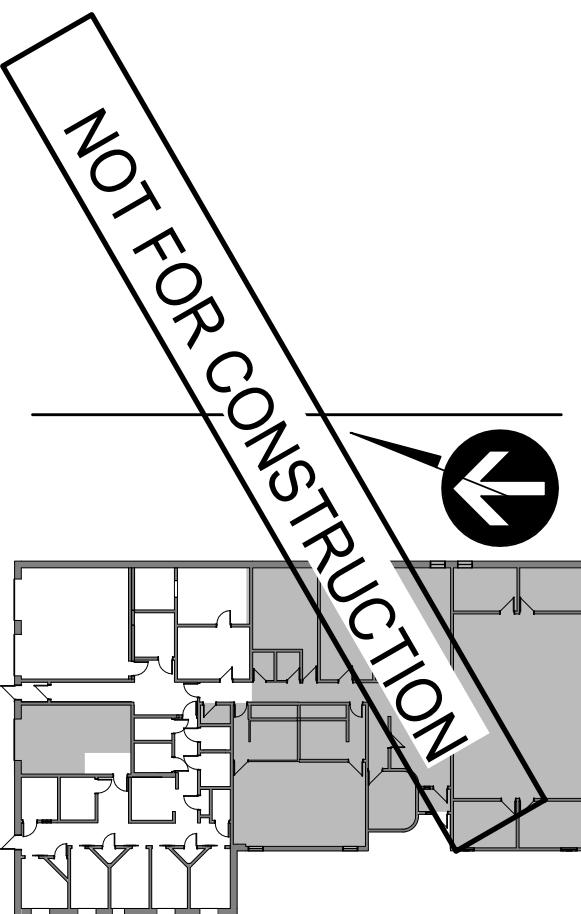
DATE 08/20/2018

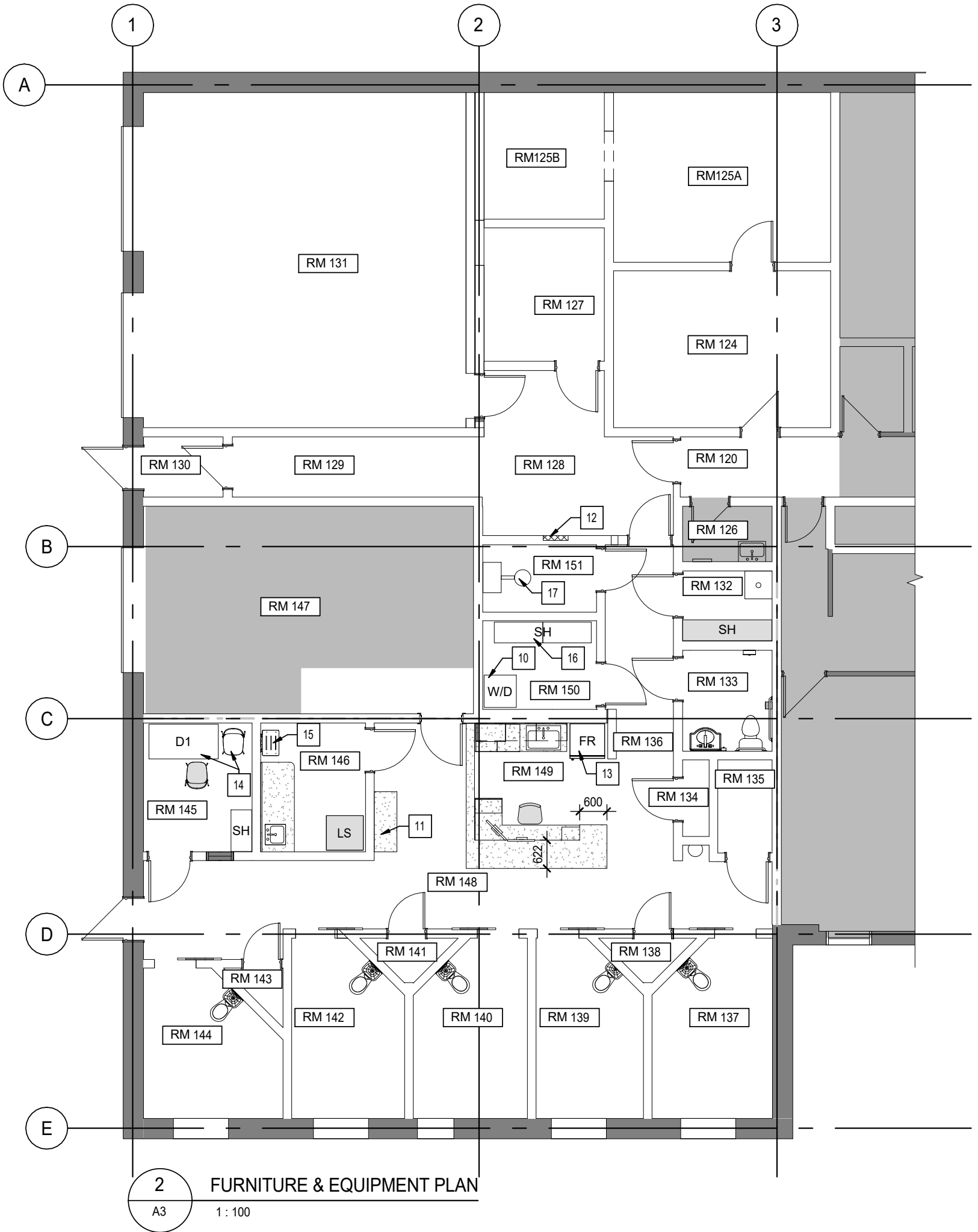
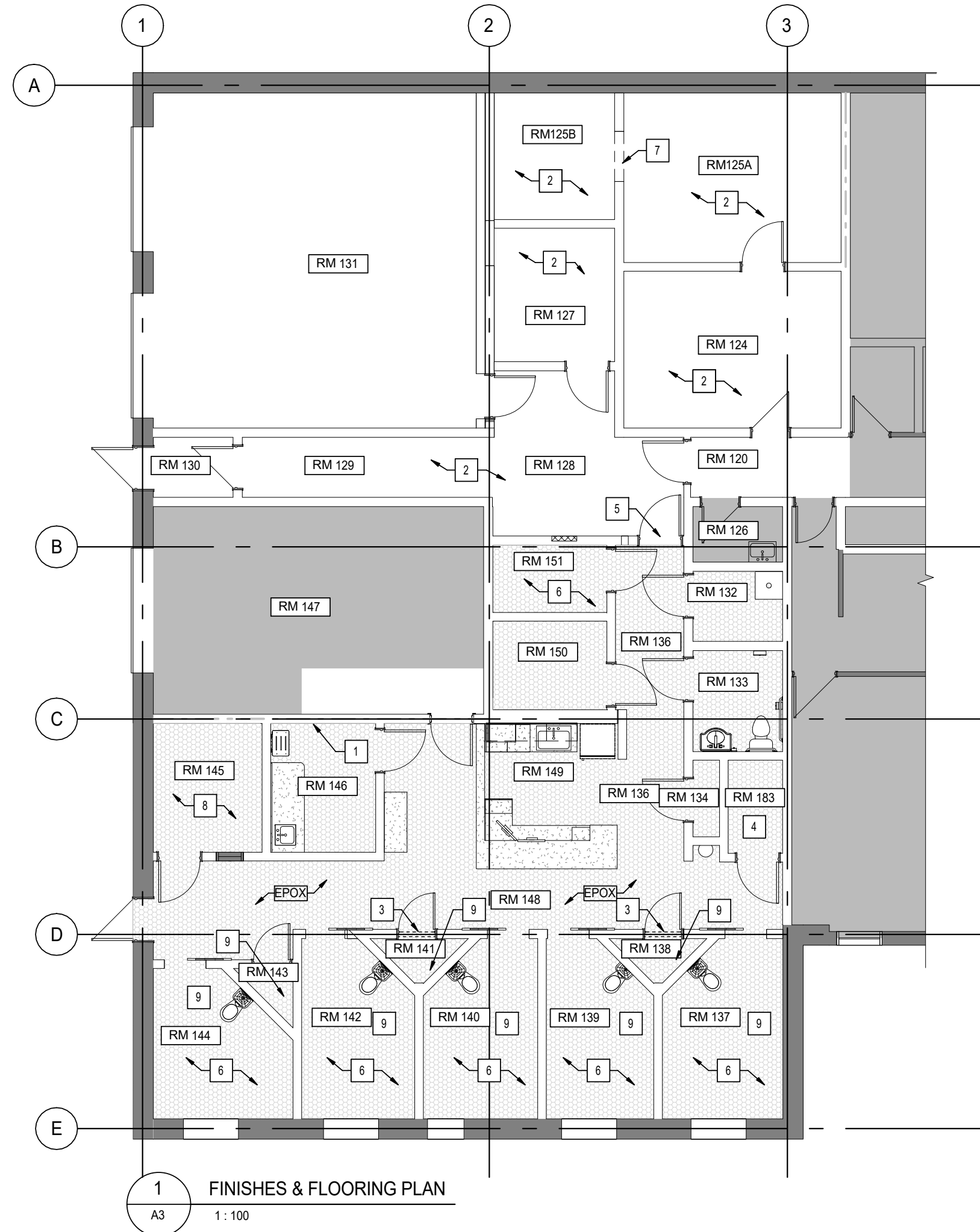
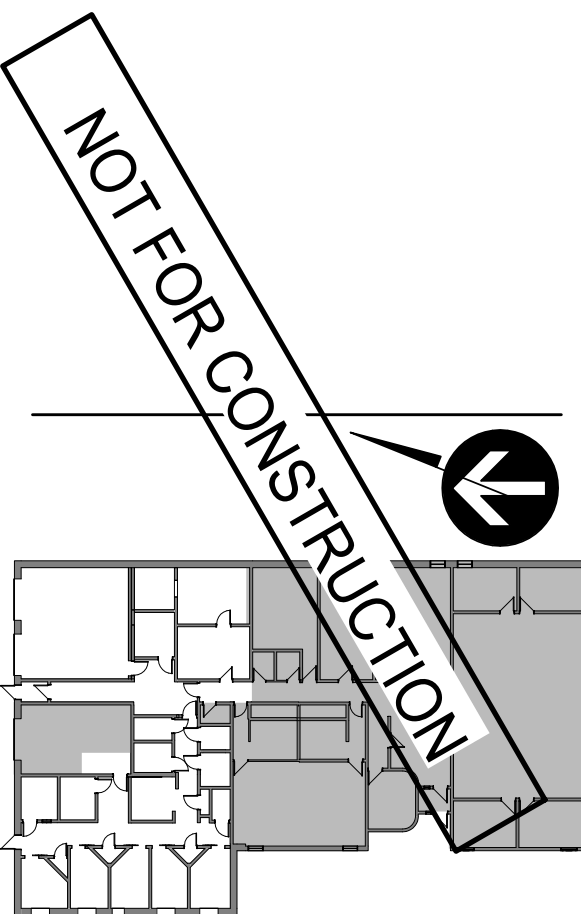


1. PATCH AND REPAIR ANY SYSTEMS, WALLS, CEILING, SURFACES OR FLOORS DAMAGED DURING CONSTRUCTION.
2. REMOVE ALL EXCESS FLOOR BASE TO BE DEMOLISHED WITHIN CELL BLOCK AREA OF CONSTRUCTION UNLESS OTHERWISE INDICATED; REPAIR, PATCH AND PREP TO ACCEPT NEW EPOXY.
3. REMOVE ALL EXCESS FLOOR BASE TO BE DEMOLISHED THROUGHOUT CELL BLOCK UNLESS OTHERWISE INDICATED; REPAIR TO FINISH PLAN.
4. WHERE FIRE SEPARATIONS AND FIRE PROTECTION ARE DAMAGED AS A RESULT OF CONSTRUCTION, REPAIR OR REPLACE SO AS TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION IS MAINTAINED.
5. ALL WALL MOUNTED EQUIPMENT, MILLVOLE, ETC. INCLUDING FUTURE AND EXISTING, LOCATED ON DRAWINGS, TO BE PROTECTED BY BLOCKING WITH WALLS PRIOR TO FINISHING WALL CONSTRUCTION.
6. OPENINGS 10" TO 100MM FROM ADJACENT WALL UNLESS OTHERWISE NOTED.
7. 2 PART EPOXY GROUT TO BE USED AROUND ALL LIGHTS AND TOILETS IN 142 AND 143.
8. PROTECT ALL SURFACES, SYSTEMS, AND EQUIPMENT FROM DAMAGE, DEBRIS, AND DUST DURING DEMOLITION AND CONSTRUCTION. PROTECT SURFACES AND SYSTEMS FROM DAMAGE AND DUST. THERE MUST BE USED SNAKE EYE SCREWS ARE NOT APPROVED. SECURITY SCREWS MAY REQUIRE THE APPLICATION OF REMOVABLE OR NON-REMOVABLE TAPE.
9. ALL FIXTURES MUST BE STAMPED WITH MANUFACTURER AND MODEL NUMBER ON THE FACE/PART OF THE FIXTURE.
10. ALL EXISTING WALLS AND PARTITIONS WITHIN OPEN AREA RM 136 AND RM 145 TO RECEPT TEMPERPROOF COVER. REPAIR TO MECH AND ELEC.
11. INSTALL FIRE DAMPERS AT ALL OUTCROCK PENETRATING FIRE RATED SEPARATIONS.

	EXISTING WALLS TO REMAIN
	NEW WALLS
	1 HR FIRE SEPARATION
	EXISTING WALLS TO BE DEMOLISHED
	NEW PARTIAL HEIGHT WALL @ 1160mm AFF
	EXISTING DOORS TO REMAIN
	EXISTING DOORS TO BE DEMOLISHED
	NEW DOORS
	NEW SLIDING DOORS
	MILLWORK TO BE DEMOLISHED
	NEW MILLWORK
	AREA NOT IN CONTRACT







GENERAL FINISHES AND FURNITURE

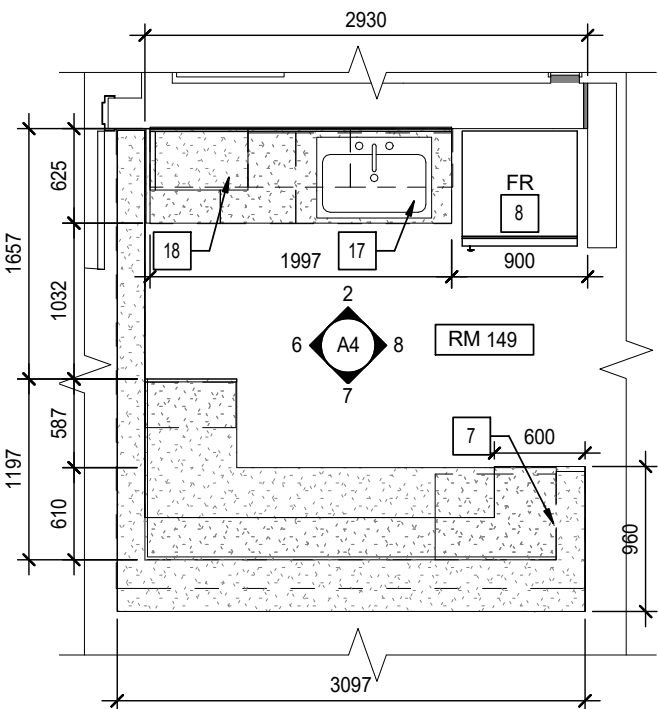
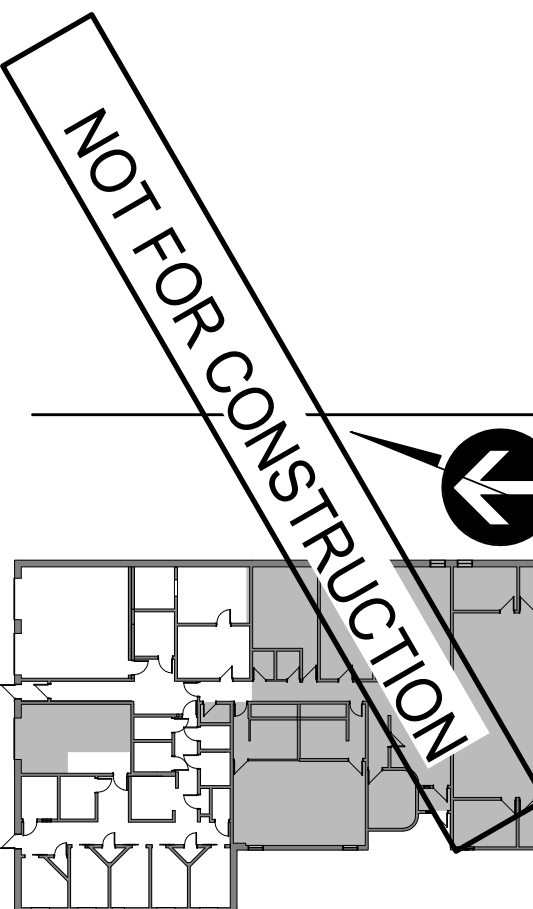
1. ALL WALLS AND CEILING TO RECEIVE PT1 PAINT UNLESS OTHERWISE INDICATED.
2. ALL EXISTING EPOXY FLOORING AND BASE TO BE REMOVED UNLESS OTHERWISE INDICATED. PATCH, REPAIR AND PREPARE SURFACE TO ACCEPT NEW EPOXY FLOORING.
3. INSTALL NEW EPOXY FLOORING C/W COVE BASE THROUGHOUT UNLESS OTHERWISE INDICATED.
4. EXISTING SLAB CEILING TO BE PATCHED, REPAIRED AND MADE READY TO ACCEPT NEW FINISHES.
5. PROVIDE NEW FLOORING TRANSITION STRIPS AT ALL FLOORING TRANSITIONS.
6. FURNITURE IS REPRESENTATIONAL ONLY UNLESS OTHERWISE NOTED.
7. PROVIDE APPROPRIATE BLOCKING TO SUPPORT 90 KG FOR ALL WALL MOUNTED EQUIPMENT WITHIN WALLS PRIOR TO FINISHING WALL CONSTRUCTION. EXACT LOCATIONS OF WALL MOUNTED EQUIPMENT TO BE CONFIRMED WITH DEPARTMENT REP PRIOR TO INSTALLATION.
8. PAINT ALL DOOR AND FRAMES AS PER SPECIFICATIONS.

FINISHES AND FURNITURE LEGEND

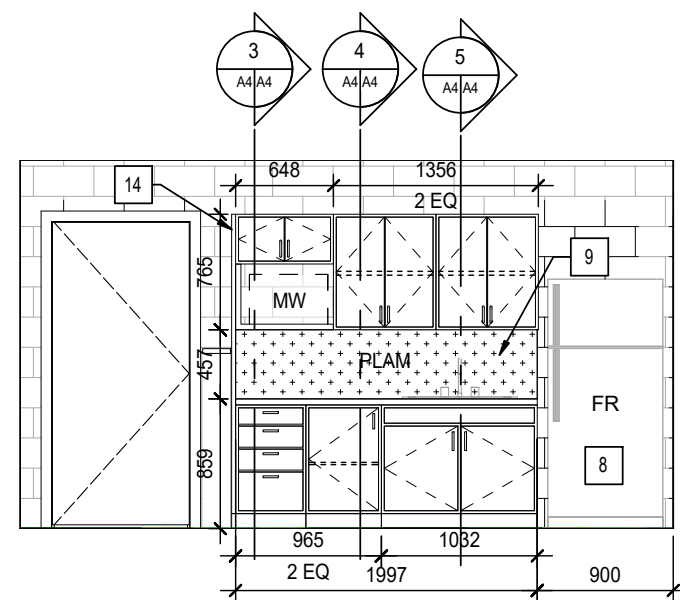
- NEW MILLWORK / SECURE BENCH
- CLIENT PROVIDED FURNITURE & EQUIPMENT NIC
- NEW FURNITURE & EQUIPMENT TO BE PROVIDED BY GC
- NEW EPOXY FINISH
- AREA NOT IN CONTRACT

FINISHES, FLOORING AND FURNITURE KEYNOTES

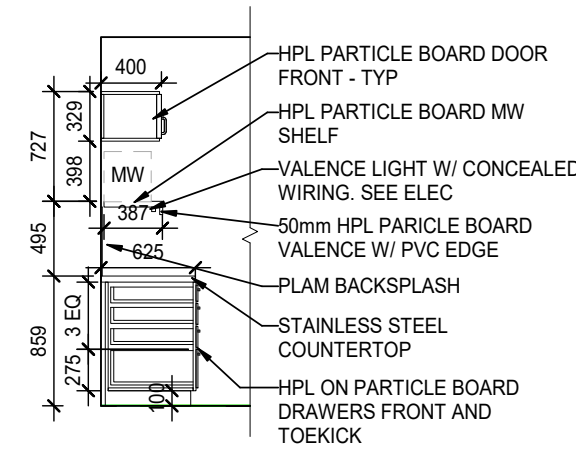
1. GROUT ENTIRE EAST WALL IN RM 146 TO CREATE LEVEL SURFACE.
2. FLOORING TO REMAIN. NOTIFY ARCHITECT OF ANY DAMAGE TO EXISTING FLOORING.
3. CONSTRUCT 51MM CONCRETE CURB AT DOORWAY C/W EPOXY TO MATCH FLOORING.
4. ENSURE PROPER SLOPE TO SHOWER DRAIN.
5. PROVIDE AND INSTALL STAINLESS STEEL TRANSITION STRIP AT NEW WALL OPENING.
6. ALL WALLS TO RECEIVE TOP QUALITY HIGH-YIELD EPOXY COATING C/W PICK-RESISTENT EPOXY CAULKING TO FILL ALL PIN HOLES, BURRS, SHARP EDGES AND VOIDS, AND FINISHED SMOOTH.
7. PATCH EPOXY FLOORING TO MATCH EXISTING. ENSURE FLUSH FINISH.
8. ALL WALLS AND CEILING IN RM 145 TO RECEIVE CONTINUOUS ACOUSTIC PANELS.
9. SLOPE FLOORS TO DRAIN.
10. NEW STACKABLE WASHER AND DRYER.
11. NEW SECURE BENCH.
12. RECESSED GUN LOCKER.
13. NEW FRIDGE.
14. PROVIDE AND INSTALL SECURE MOUNTED DESK AND CHAIR. CONFIRM EXACT LOCATION WITH DEPARTMENT REP.
15. NEW WALL MOUNTED FOLDABLE BENCH.
16. NEW METAL SHELVING UNITS SECURED TO WALL.
17. NEW SECURE HEAVY DUTY FLOOR MOUNTED TABLE WITH ATTACHED STOOL.



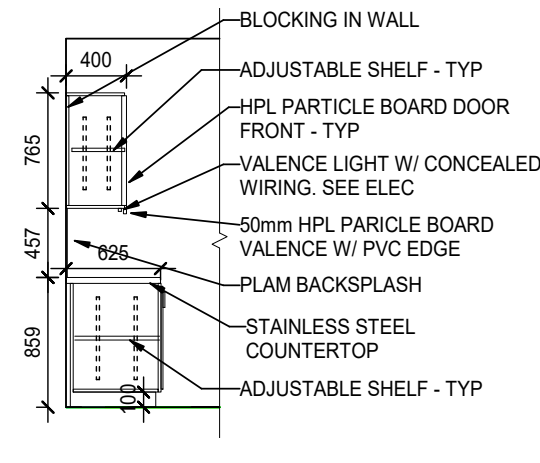
1 ENLARGED ROOM 149
A4 1:50



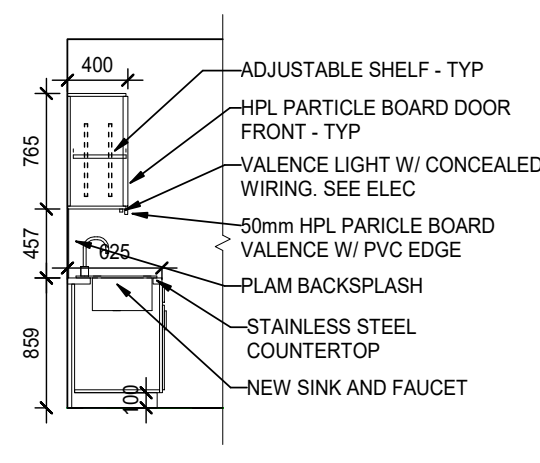
2 KITCHINETTE EAST ELEVATION
A4 1:50



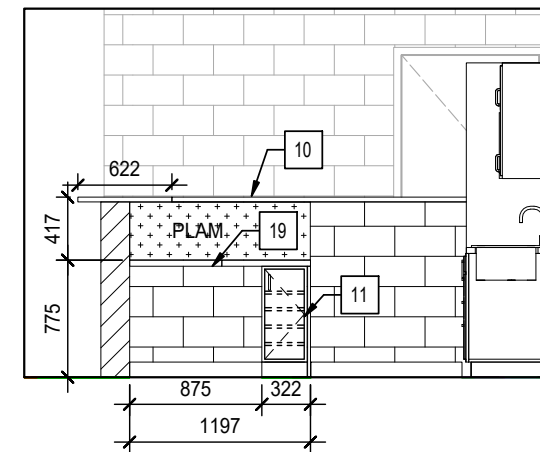
3 DRAWER SECTION
A4 1:50



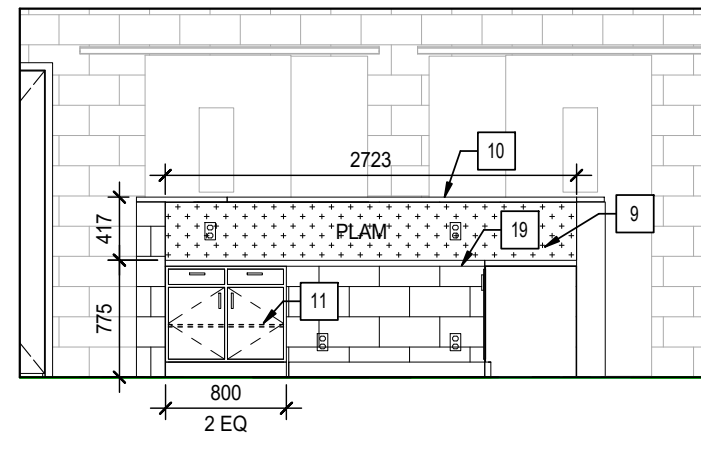
4 CABINET SECTION
A4 1:50



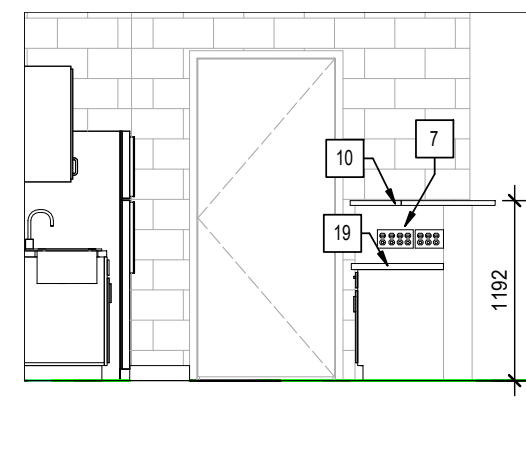
5 SINK SECTION
A4 1:50



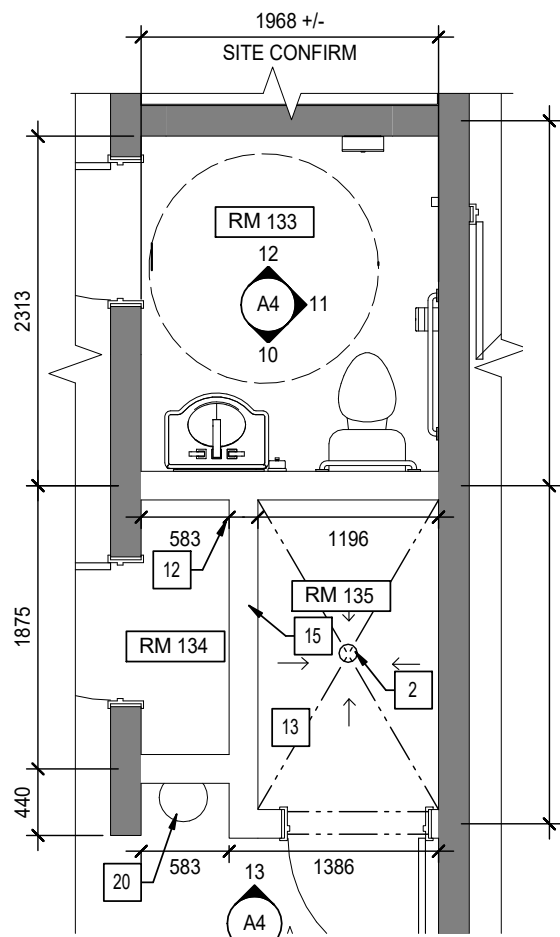
6 RM 149 NORTH ELEVATION
A4 1:50



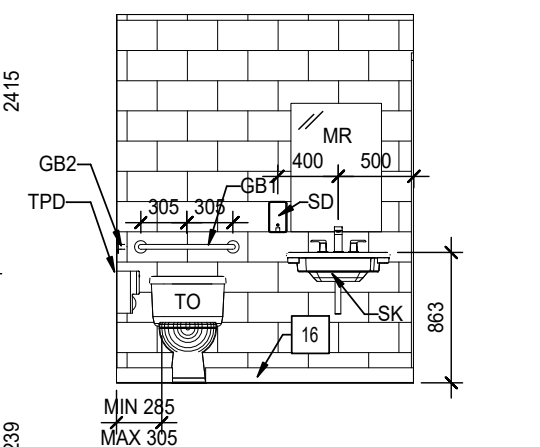
7 RM 149 WEST ELEVATION
A4 1:50



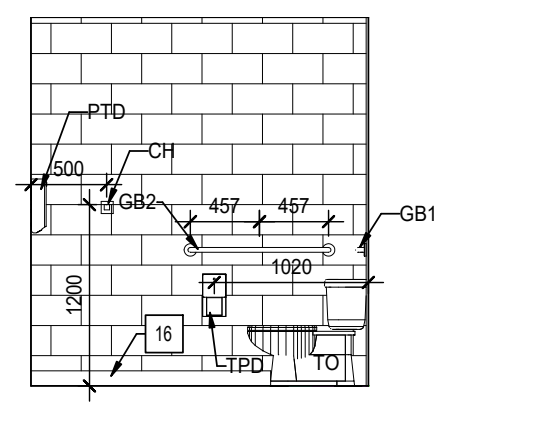
8 PATROL SOUTH ELEVATION
A4 1:50



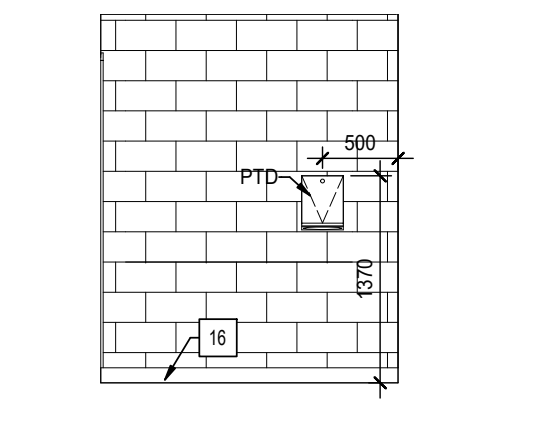
9 ENLARGED ROOMS 133, 134 & 135
A4 1:50



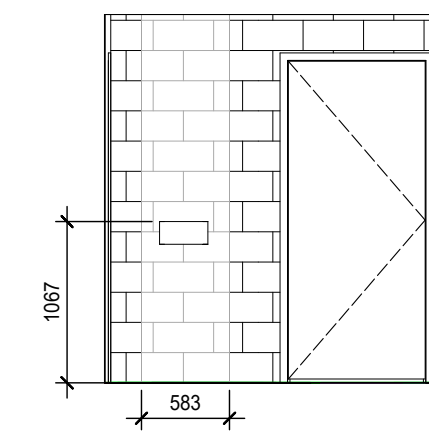
10 RM 133 WEST ELEVATION
A4 1:50



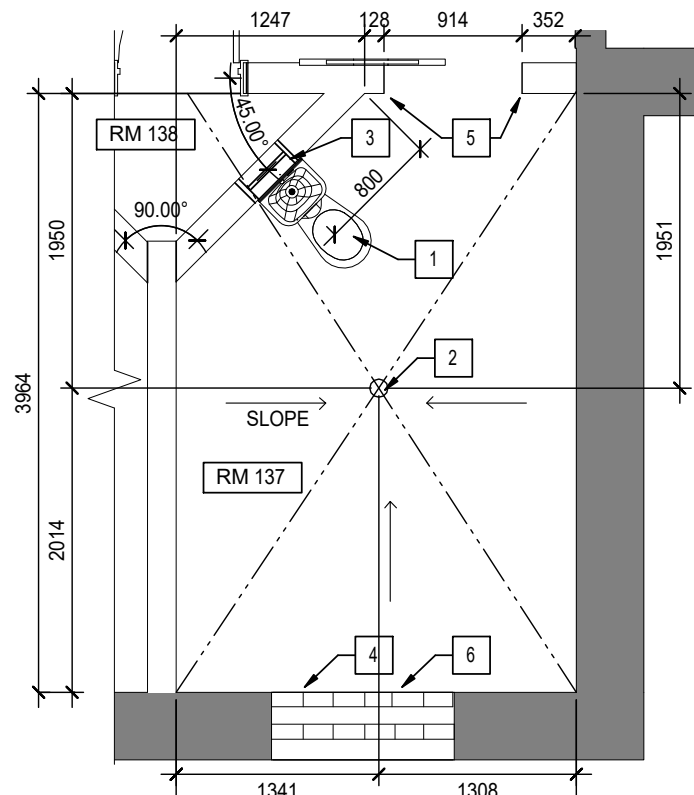
11 RM 133 SOUTH ELEVATION
A4 1:50



12 RM 133 NORTH ELEVATION
A4 1:50

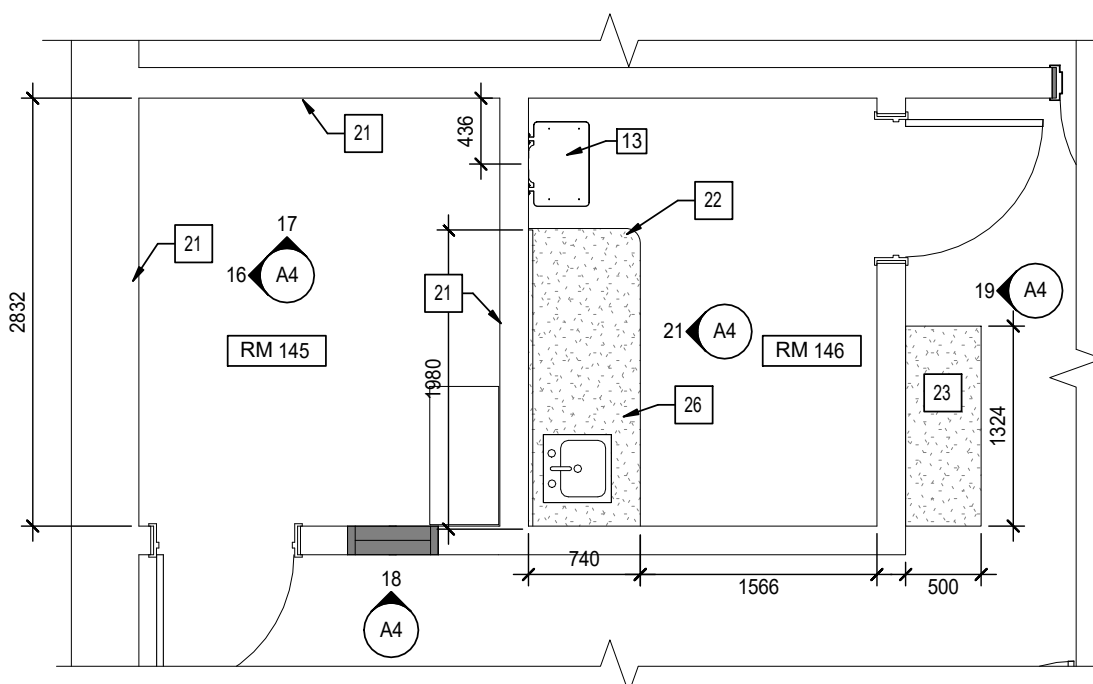


13 EYEWASH STATION ELEVATION
A4 1:50

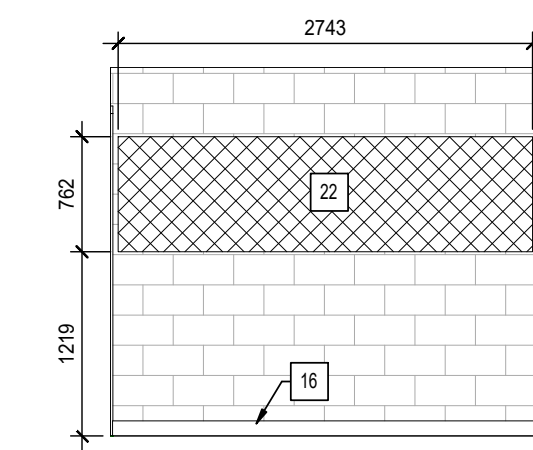


14 ENLARGED PLAN TYPICAL RM 137
A4 1:50

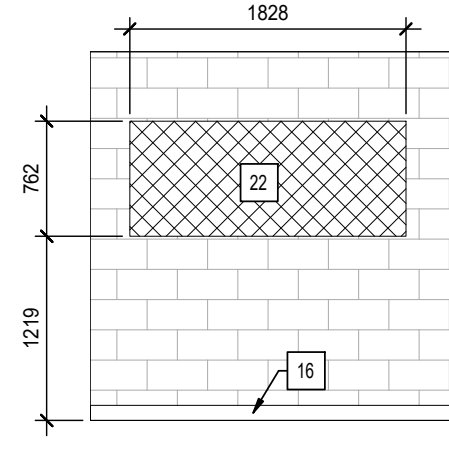
- A4 PLAN AND ELEVATION KEY NOTES
- TOILET & LAVATORY COMBINATION.
 - SLOPE FLOOR TO DRAIN. FLOOR DRAIN TO BE CENTERED. 75MM AND C/W SECURITY SCREWS AND LOCTITE LIQUID THREAD LOCKER OR EQUIV. PROVIDE TAMPERPROOF GRILLE WITH MAX 12MM OPENING. FLUSH MOUNTED. REFER TO MECHANICAL DWGS.
 - SECURITY SLEEVE. GROUT IN FRAME.
 - CELL NUMBER PAINTED IN CONTRASTING COLOUR, 150MM HIGH DIGIT. CONFIRM EXACT LOCATION ON SITE WITH DEPARTMENT REP.
 - BEVELED CONCRETE BLOCK CORNER.
 - NEW GLASS BLOCK WINDOW.
 - EXHAUST SWITCHES LOCATED ON PARTIAL WALL ABOVE DESK. REFER TO MECHANICAL.
 - PROVIDE AND INSTALL NEW FRIDGE.
 - PLASTIC LAMINATE BACKSPLASH.
 - FINISH EXPOSED TOP OF PARTIAL WALL WITH STAINLESS STEEL THROUGHOUT.
 - LOCKABLE CABINETS AND DRAWERS.
 - ROOM 135 SHOWER SHUT OFF VALVES. REFER TO MECHANICAL.
 - WALL MOUNTED FOLDABLE BENCH.
 - END GABLE TO EXTEND FULL HEIGHT.
 - SHOWER CONTROLS.
 - TYPICAL THROUGHOUT: EPOXY COVE BASE 100mm.
 - SINK AND FAUCET. REFER TO MECHANICAL.
 - PROVIDE AND INSTALL MICROWAVE.
 - STAINLESS STEEL COUNTERTOP.
 - EYEWASH STATION. REFER TO MECHANICAL.
 - WALL MOUNTED ACOUSTIC PANEL.
 - 100mm RADIUS ON ALL EDGES AND CORNERS.
 - NEW WALL MOUNTED ACOUSTIC PANEL. ENSURE ALL FASTENERS AND HARDWARE ARE SECURE AND CONCEALED.
 - NEW SECURE BENCH.
 - INSTALL SIGNAGE AS PER ELECTRICAL DWGS.
 - SECURE WOOD BENCH, 38mm X 89mm HARDWOOD C/W 100mm X 6mm STEEL FLATBAR SUPPORTS.
 - INSTALL SIGNAGE AS PER ELECTRICAL DWGS.
 - KEYBOARD TRAY.
 - INSTALL SIGNAGE AS PER ELECTRICAL DWGS.
 - STAINLESS STEEL COUNTER AND BACKSPLASH.



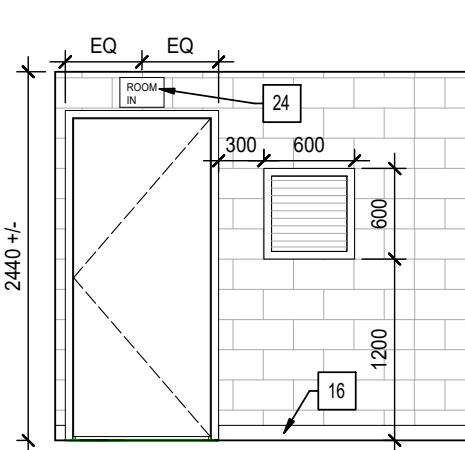
15 ENLARGED RM 145 & 146
A4 1:50



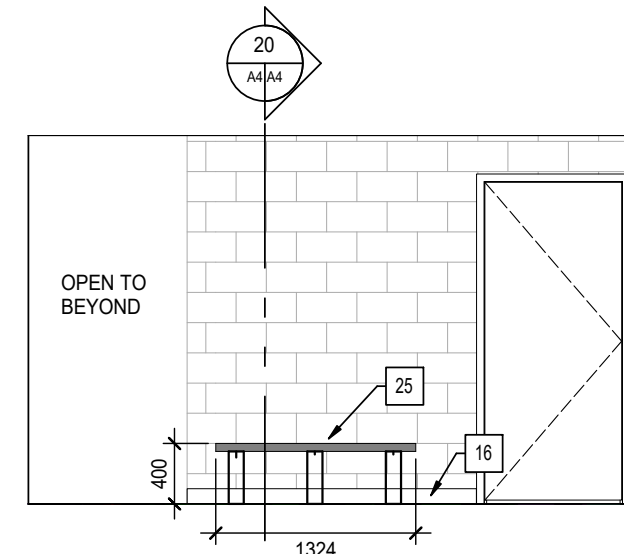
16 ROOM 145 TYP EAST AND WEST
ACOUSTIC PANELS
A4 1:50



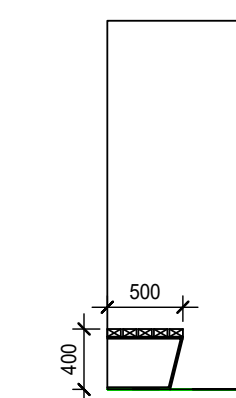
17 ROOM 145 NORTH ACOUSTIC PANEL
A4 1:50



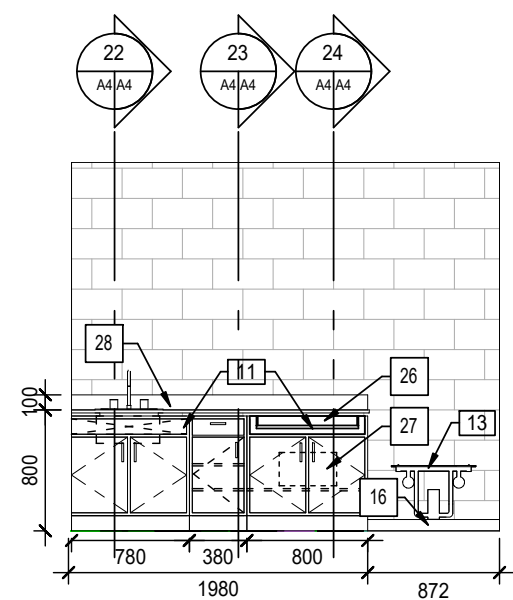
18 ROOM 145 VIEWING WINDOW
A4 1:50



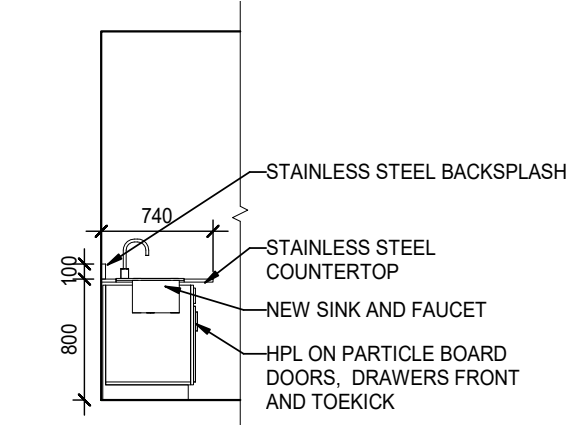
19 SECURE BENCH ELEVATION
A4 1:50



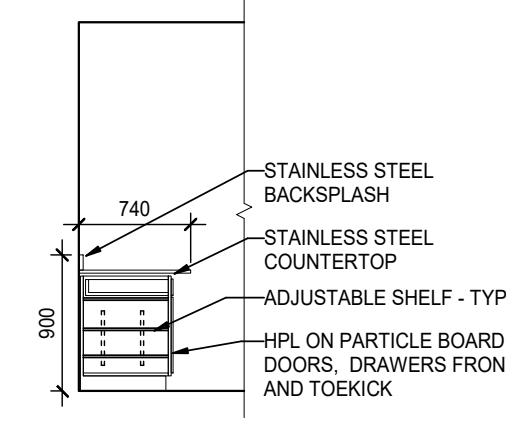
20 SECURE BENCH SECTION
A4 1:50



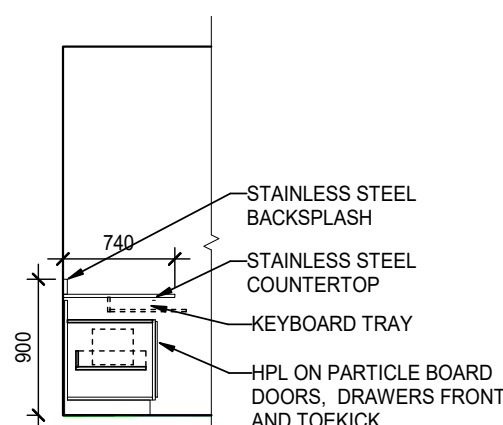
21 RM 146 NORTH ELEVATION
A4 1:50



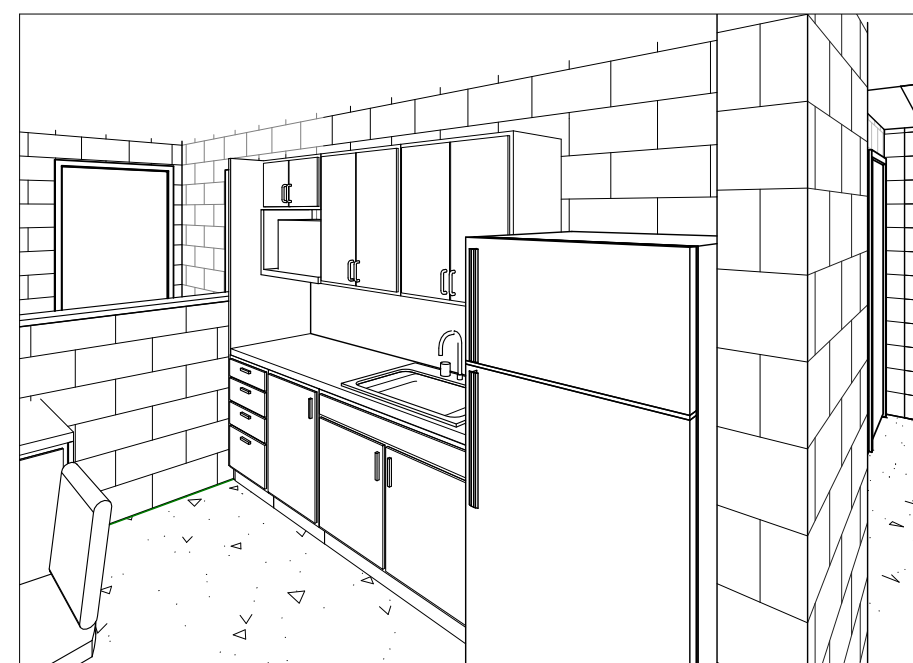
22 SECTION 1
A4 1:50



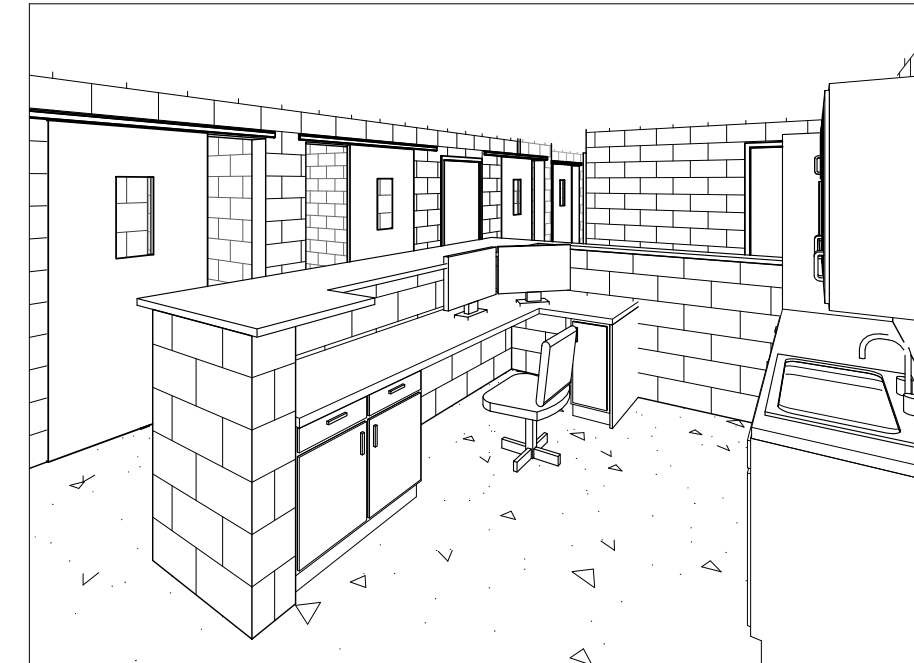
23 SECTION 2
A4 1:50



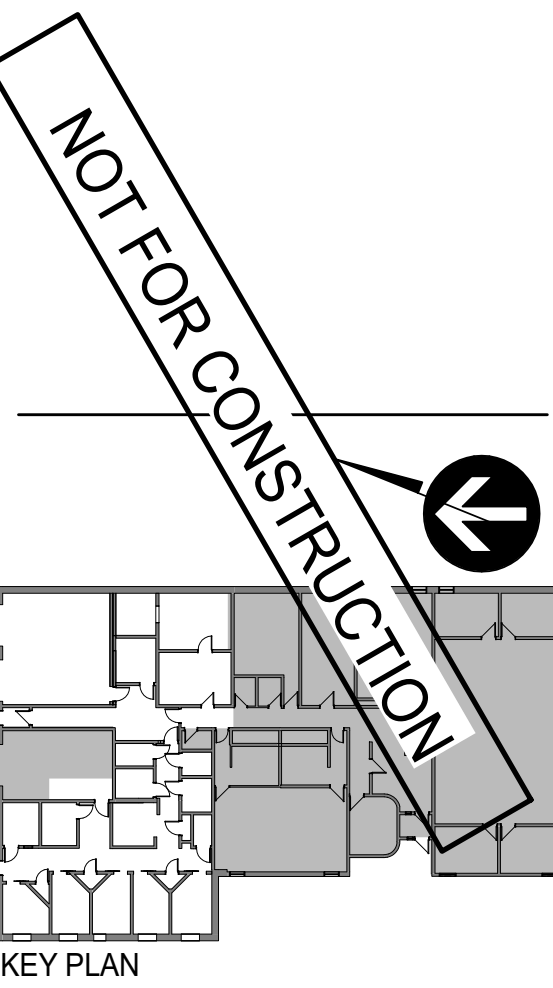
24 SECTION 3
A4 1:50



3D1 ROOM 149 3D VIEW 1
A4



3D2 ROOM 149 3D VIEW 2
A4



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ISSUES / REVISIONS

1.	2018/02/16 PRELIMINARY 50% CONSTRUCTION DRAWINGS
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5.	2018/08/20 100% TENDER DOCUMENTS

CLIENT
FEDERAL BUILDING

PROJECT
INTERIOR RENOVATIONS

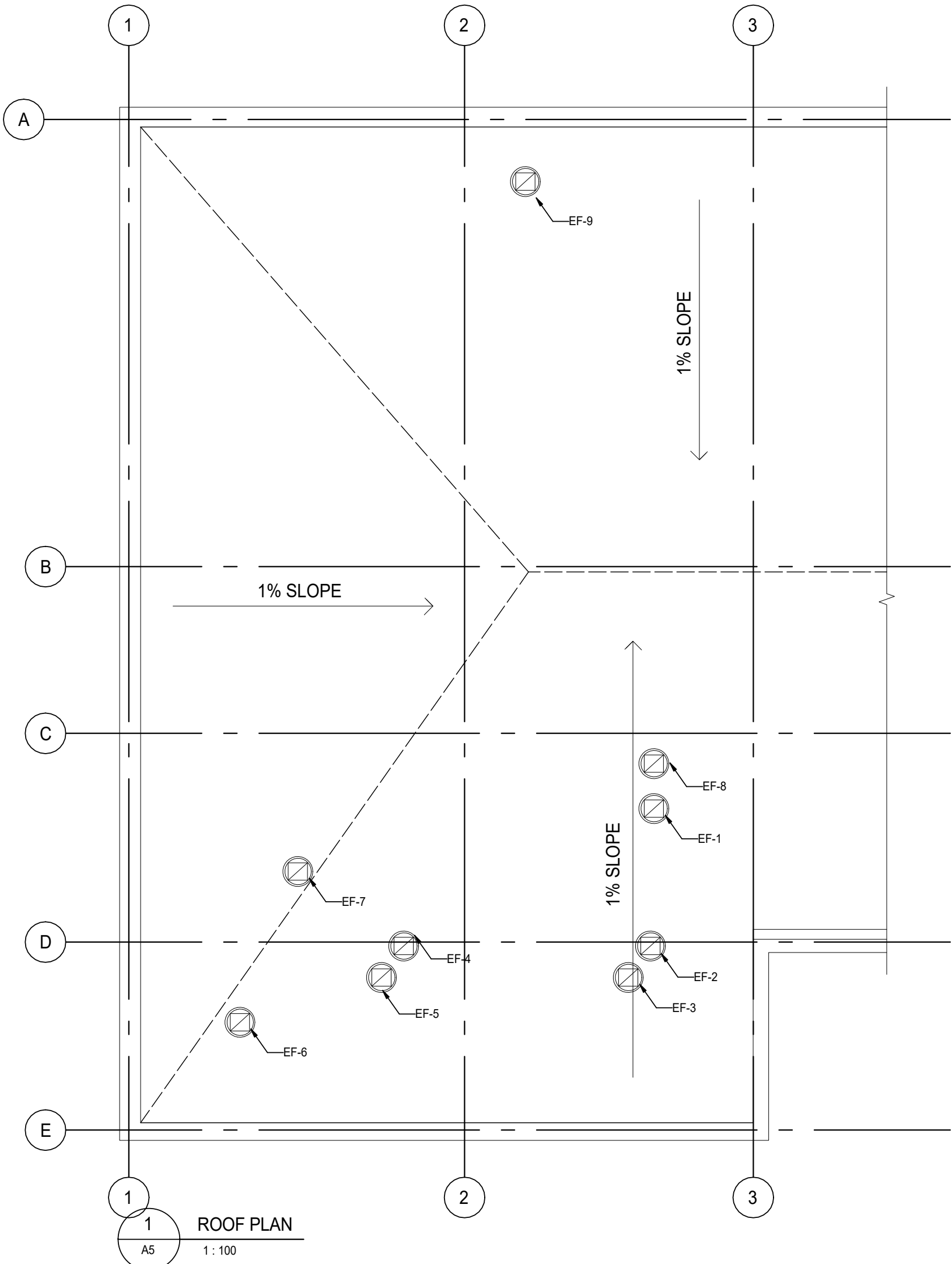
CONTENTS
ROOF AND WINDOW DETAILS

PROJECT NUMBER
PROJECT 286

DATE
08/20/2018

SHEET NUMBER

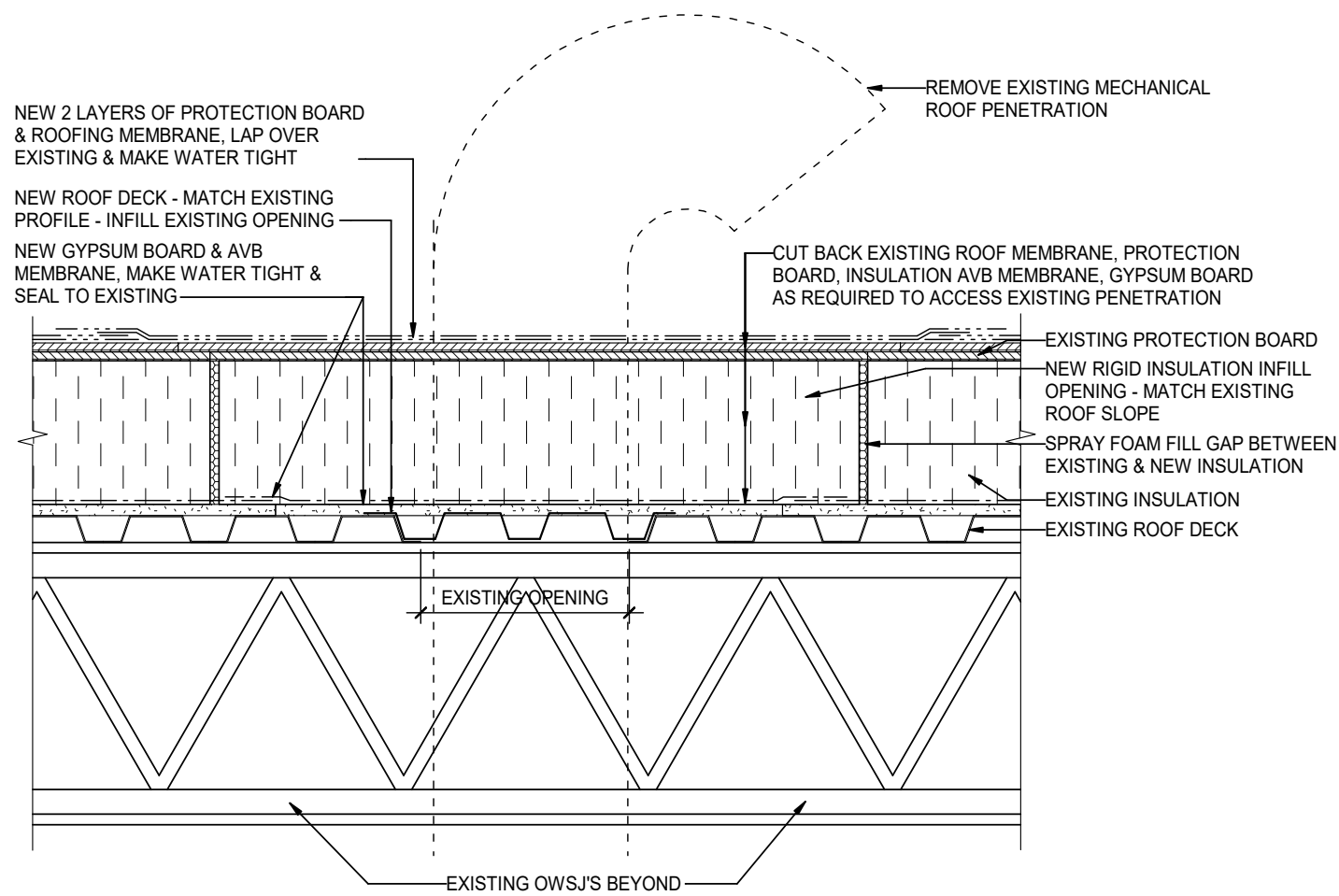
A5



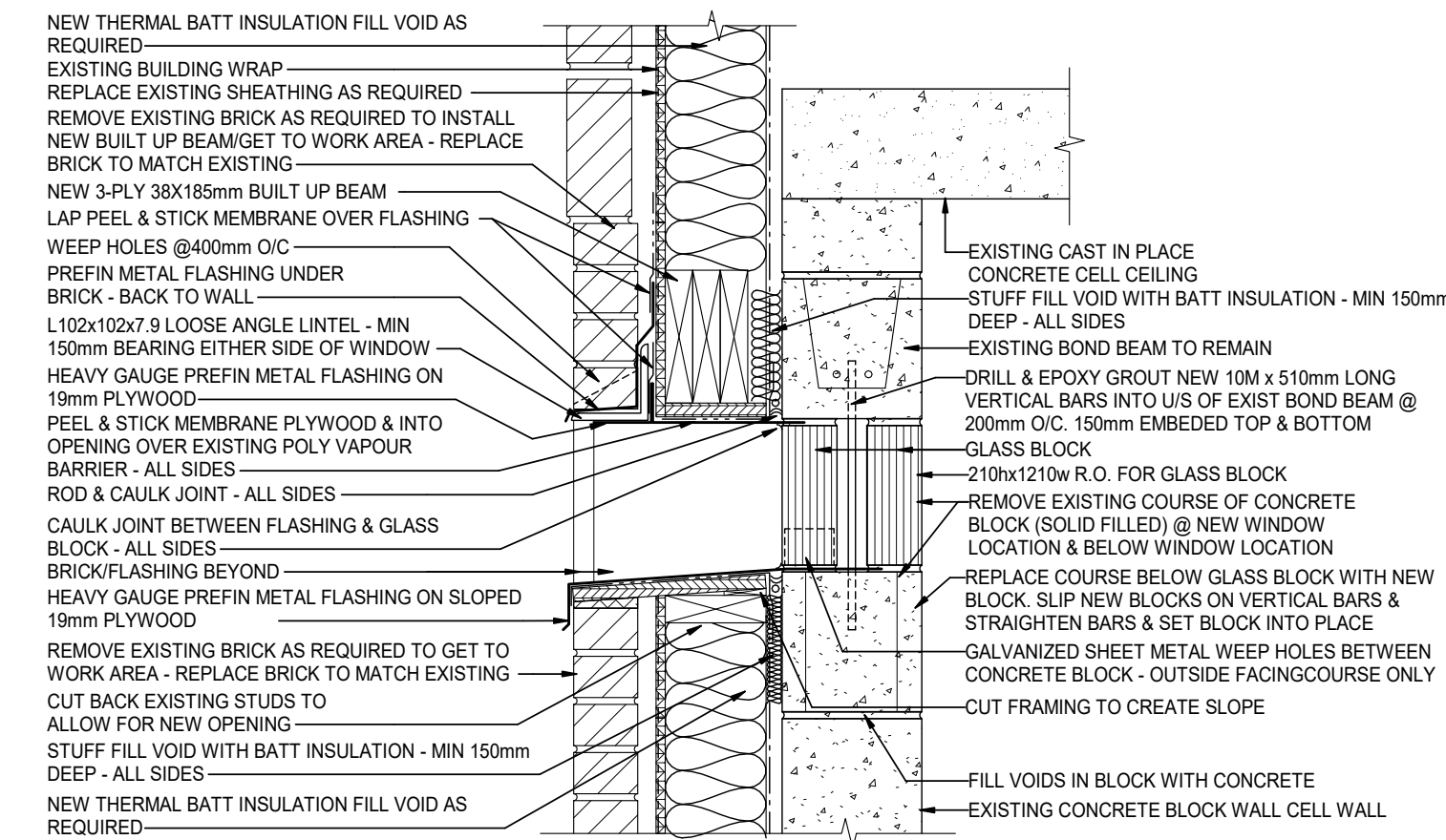
1 ROOF PLAN
A5 1:100

GENERAL ROOF

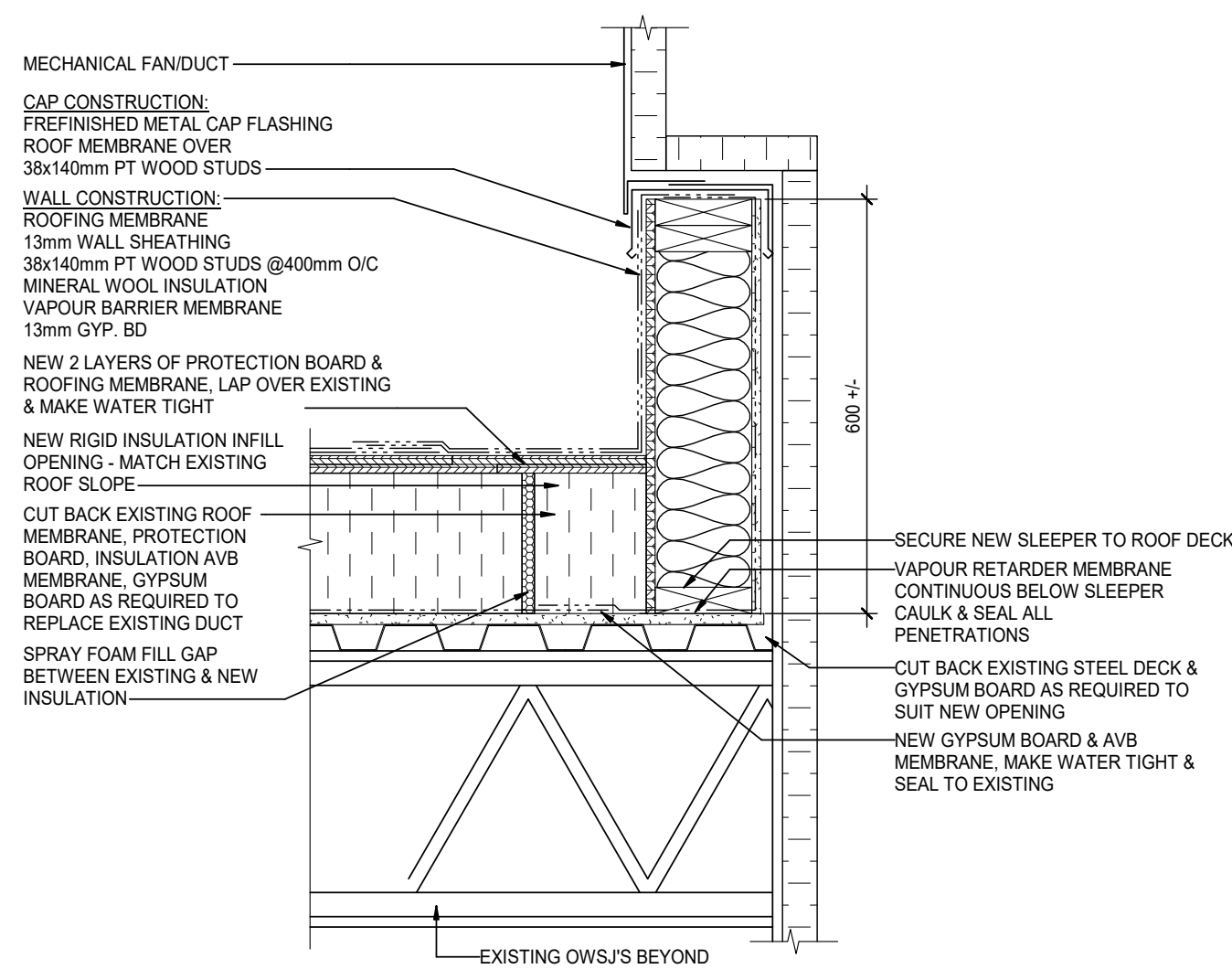
1. PATCH AND REPAIR ROOF AT ALL LOCATIONS WHERE EXISTING MECHANICAL ITEMS HAVE BEEN DEMOLISHED. REFER TO MECHANICAL DRAWINGS AND SECTIONS.



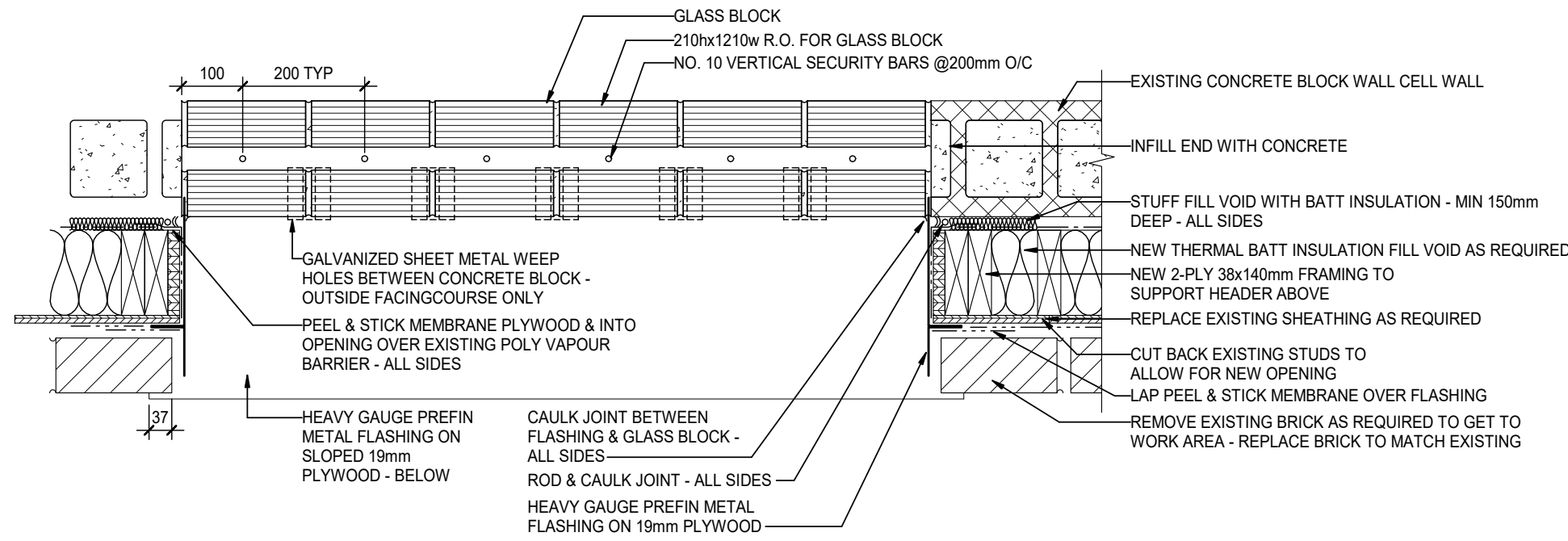
2 SECTION @ ENCLOSED MECH ROOF PENETRATION
A5 1:10



4 SECTION @ NEW WINDOW
A5 1:10



3 SECTION @ NEW ROOF PENETRATION
A5 1:10



5 PLAN DETAIL @ NEW WINDOW
A5 1:10

GENERAL NOTES

- STRUCTURAL DESIGN BASED ON THE NATIONAL BUILDING CODE OF CANADA 2015 EDITION.
 - IMPORTANCE CATEGORY: NORMAL
 - WIND LOAD: $q_{50} = 0.35 \text{ kPa}$
 - GROUND SNOW LOAD: $S_s = 2.0 \text{ kPa}$
 - ASSOCIATED RAIN LOAD: $S_r = 0.2 \text{ kPa}$
- SEISMIC SITE CLASSIFICATION: NOT APPLICABLE
- DO NOT SCALE DRAWINGS.
- ALL DIMENSIONS ARE TO BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS AND EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
- THESE STRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE AND DO NOT INDICATE ALL COMPONENTS NECESSARY FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY ON AND AROUND THE JOBSITE DURING CONSTRUCTION.

CAST-IN-PLACE CONCRETE

1. CONCRETE

- ALL CONCRETE IS TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF CSA-A23.1-14 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION" AND CSA-A23.2-14 "METHOD OF TEST FOR CONCRETE".
- PROVIDE CERTIFICATION THAT MIX PROPORTIONS SELECTED WILL PRODUCE CONCRETE OF QUALITY, YIELD AND STRENGTH AS SPECIFIED IN CONCRETE MIXES, AND WILL COMPLY WITH CSA-A23.1. CERTIFICATION LETTER TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
- PROVIDE CERTIFICATION THAT PLANT, EQUIPMENT, AND MATERIALS TO BE USED IN CONCRETE COMPLY WITH REQUIREMENTS OF CSA-A23.1. CERTIFICATION LETTER TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
- CONCRETE PROPERTIES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

INTERIOR STRUCTURAL SLABS AND BEAMS:	25 MPa MIN. AT 28 DAYS CLASS OF EXPOSURE: N ENTRAINED AIR/CATEGORY: NONE (LESS THAN 3%) AGGREGATE MAX. 20 mm CURING TYPE: TYPE 1 - BASIC
MASONRY FILL:	20 MPa MIN. AT 28 DAYS CLASS OF EXPOSURE: N ENTRAINED AIR/CATEGORY: NONE AIR CONTENT: LESS THAN 3% AGGREGATE MAX. 14 mm SLUMP: 200 mm \pm 40 mm

UNLESS INDICATED OTHERWISE THE CONTRACTOR SHALL SPECIFY CONCRETE SLUMP APPROPRIATE WITH PLACEMENT METHODS AND SITE CONDITIONS. THE CONTRACTOR SPECIFIED SLUMP MUST BE SHOWN ON THE CERTIFICATION LETTER AND CONCRETE DELIVERY TICKET.

- UNLESS NOTED OTHERWISE CONCRETE CURING TO CONFORM TO THE LATEST EDITION OF CSA-A23.1-14 AS FOLLOWS:
 - TYPE 1 - BASIC: 3 DAYS $\geq 10^\circ\text{C}$ AND FOR A TIME NECESSARY TO ATTAIN 40% OF THE SPECIFIED STRENGTH.
 - TYPE 2 - ADDITIONAL: 7 DAYS $\geq 10^\circ\text{C}$ AND FOR A TIME NECESSARY TO ATTAIN 70% OF THE SPECIFIED STRENGTH.
 - TYPE 3 - EXTENDED: 7 DAYS WET CURING $\geq 10^\circ\text{C}$.

- AIR ENTRAINING ADMIXTURES SHALL CONFORM TO THE REQUIREMENTS OF ASTM C260/C260M-10a "STANDARD SPECIFICATION FOR AIR ENTRAINING ADMIXTURES FOR CONCRETE". SUPERPLASTICIZING ADMIXTURES SHALL CONFORM TO ASTM C494/C494M "STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE" OR ASTM C1017/1017M "STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR USE IN PRODUCING FLOWING CONCRETE" WHEN FLOWING CONCRETE IS APPLICABLE. AIR ENTRAINING ADMIXTURES TO HAVE A DURABILITY FACTOR GREATER THAN 75, WHEN TESTED TO ASTM STANDARDS C866/C866M PROCEDURE A. SPACING FACTOR FOR ANY AIR ENTRAINING ADMIXTURE MUST BE 0.17mm OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM C457.

II. REINFORCING STEEL

- ALL REINFORCING STEEL TO BE CSA-G30.18M-09 GRADE 400R DEFORMED BARS EXCEPT BEAM STIRRUPS WHICH SHALL BE GRADE 400W STEEL.
- ALL REINFORCING IS TO BE DETAILLED IN ACCORDANCE WITH THE LATEST EDITION OF THE REINFORCING STEEL INSTITUTE OF CANADA - MANUAL OF STANDARD PRACTICE, EXCEPT OTHERWISE NOTED.
- WELDED STEEL WIRE MESH SHALL BE TO ASTM A185/A185M-07, 400 MPa YIELD, FLAT SHEETS ONLY.
- REINFORCING STEEL COVER IS TO CONFORM TO CAN/CSA A23.3-14 "DESIGN OF CONCRETE STRUCTURES FOR BUILDINGS" AND AS FOLLOWS:
 - INTERIOR STRUCTURAL SLABS:
EXPOSURE CLASS: N
20 mm TOP
20 mm BOTTOM
 - INTERIOR BEAMS:
EXPOSURE CLASS: N
30 mm BOTTOM TO TIES
30 mm SIDES AND TOP TO TIES.
- TOP STEEL IN BEAMS TO BE LAPPED AT CENTRE SPAN. BOTTOM STEEL TO BE BUTTED AT SUPPORT.
- ALL REINFORCING TO BE HELD IN PLACE, AND TIED BY THE USE OF PROPER ACCESSORIES, SUCH AS HI-CHAIRS, SPACERS, ETC. TO BE SUPPLIED BY THE REINFORCING STEEL FABRICATOR. HI-CHAIRS TO HAVE 4 LEGS AND TO BE STAPLED OR NAILED TO THE FORMWORK.
- ALL OPENINGS IN CAST-IN-PLACE CONCRETE FLATWORK TO BE TRIMMED WITH 2-15M ALL AROUND ON BOTH FACES, EXCEPT AS NOTED.
- ALL MISCELLANEOUS CONCRETE PADS AND CURBS ARE TO BE REINFORCED WITH A MINIMUM OF 10M AT 400 mm O/C EACH WAY, UNLESS NOTED.

III. FORMWORK

- ALL CONSTRUCTION JOINT KEYS ARE TO BE A MINIMUM OF 40 mm DEEP.

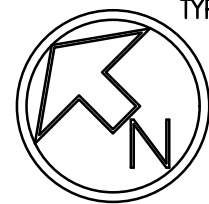
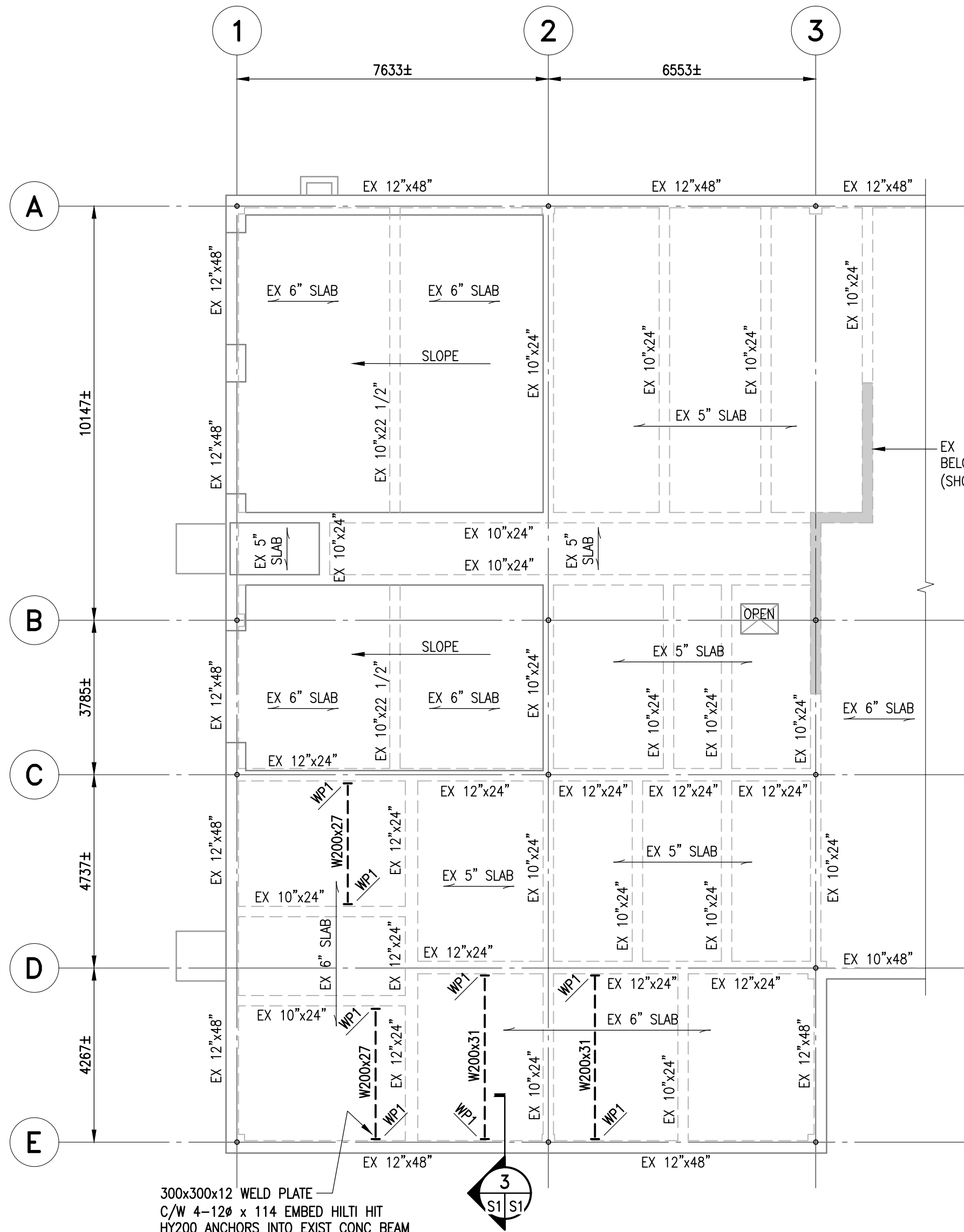
STRUCTURAL STEEL

- THE STRUCTURAL STEEL FABRICATOR'S ENGINEER SHALL BE RESPONSIBLE FOR LOCATING AND DESIGNING PROVISIONS FOR ALL TEMPORARY FALL PROTECTION SYSTEMS REQUIRED DURING CONSTRUCTION TO MEET MANITOBA WORKPLACE HEALTH AND SAFETY REGULATIONS.
- STRUCTURAL STEEL TO CONFORM TO CSA-G40.21, "STRUCTURAL QUALITY STEELS" AND CSA-G40.20 "GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL".
- ALL ROLLED OR STEEL STRUCTURAL SECTIONS SHALL BE G40.21-350W. ALL HOLLOW STRUCTURAL SECTIONS TO BE G40.21-350W CLASS C OR ASTM A500-C. ALL ANGLES, CHANNELS AND PLATES SHALL BE G40.21-300W.
- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE PERFORMED IN ACCORDANCE WITH CSA S16-14, "DESIGN OF STEEL STRUCTURES".
- ALL WELDING SHALL CONFORM TO THE LATEST EDITION OF CSA W59, "WELDED STEEL CONSTRUCTION". FABRICATORS SHALL BE PROPERLY CERTIFIED IN ACCORDANCE WITH CSA W47.1, "CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL STRUCTURES".
- ALL BOLTED CONNECTIONS TO USE A325 HIGH STRENGTH BOLTS. MINIMUM CONNECTION SHALL CONSIST OF 2 BOLTS.
- ALL STRUCTURAL STEEL IS TO RECEIVE ONE COAT OF CISC/CPMA 1-73a QUICK DRYING SHOP PRIMER. STEEL TO BE CLEANED IN CONFORMANCE WITH SSPC-SP2. STEEL RECEIVING FINISH PAINTING TO HAVE ONE COAT OF CISC/CPMA 2-75 QUICK DRYING SHOP PRIMER. STEEL TO BE CLEANED IN CONFORMANCE WITH SSPC-SP7.
- ALL BEAMS CONTINUOUS OVER COLUMNS ARE TO HAVE WEB STIFFENERS THE SAME SIZE AND ORIENTATION AS THE COLUMN BELOW, UNLESS OTHERWISE NOTED.
- ANCHOR BOLTS TO BE ASTM A307 GRADE C OR ASTM F1554 GRADE 36, WELDABLE, PROVIDED BY STEEL SUPPLIER AND SET BY THE GENERAL CONTRACTOR. WHERE ASTM F1554 GRADE 55 ANCHOR BOLTS ARE USED, BOLTS TO BE WELDABLE GRADE STEEL.
- FABRICATOR TO NOTIFY ENGINEER OF ANY PROPOSED MEMBER SUBSTITUTIONS AND CHANGED CONNECTION DETAILS.
- THE STRUCTURAL STEEL SUPPLIER SHALL PROVIDE AND BE RESPONSIBLE FOR ALL HOLES IN STEEL SECTIONS REQUIRED BY OTHER TRADES. SECTION SHALL BE STRENGTHENED WHERE REQUIRED TO GUARANTEE THE ORIGINAL STRENGTH OF THE BEAM. ANY CUTTING OF STEEL AT THE JOB SITE SHALL BE DONE ONLY AS DIRECTED AND APPROVED BY THE ENGINEER.
- STRUCTURAL STEEL SUPPLIER IS TO SUBMIT ENGINEERING DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA COVERING THE DESIGN OF CONNECTIONS, TO THE PROJECT DESIGN ENGINEER FOR REVIEW PRIOR TO FABRICATION. CONNECTION DESIGN TO INCLUDE FOR ALL ADJUSTABLE CONNECTIONS REQUIRED TO SUITE FABRICATION AND ERECTION PROCEDURES AND TOLERANCES.

MASONRY

- CONCRETE BLOCKS TO CONFORM TO CSA-A165-14 SERIES "STANDARDS FOR CONCRETE MASONRY UNITS".
 - STANDARD HOLLOW MASONRY UNITS SHALL BE H/12.5/A/M. (COMPRESSIVE STRENGTH IS BASED ON NET AREA).
- EXTERIOR AND LOAD BEARING WALLS ARE TO BE BUILT WITH TYPE "S" MORTAR HAVING A MINIMUM STRENGTH OF 12.5 MPa AT 28 DAYS. INTERIOR MASONRY NON-LOAD BEARING WALLS MAY BE BUILT WITH TYPE "N" MORTAR HAVING A COMPRESSIVE STRENGTH OF 5 MPa AT 28 DAYS. MORTAR SHALL CONFORM TO CSA A178-14, "MORTAR AND GROUT FOR UNIT MASONRY".
- USE DUR-O-WAL OR EQUAL EVERY SECOND COURSE. EVERY COURSE FOR STACK BOND.
- THE TOP COURSE OF ALL BLOCK WALLS IS TO BE A 'U' BLOCK WITH 2-10M CONTINUOUS CENTRED AND FILLED WITH 20 MPa CONCRETE UNLESS NOTED ON PLAN.
- ALL MASONRY WALLS TO BE PROPERLY BRACED UNTIL STRUCTURE IS CLOSED IN AND WALL PERMANENTLY SUPPORTED.
- ALL BLOCK WALLS RECEIVING BEAMS TO HAVE 2 COURSES HIGH, 400 mm LONG FILLED WITH 20 MPa CONCRETE UNLESS NOTED ON DRAWINGS.
- DOOR LINTELS IN BLOCK WALLS SHALL BE AS FOLLOWS UNLESS NOTED ON DRAWINGS:

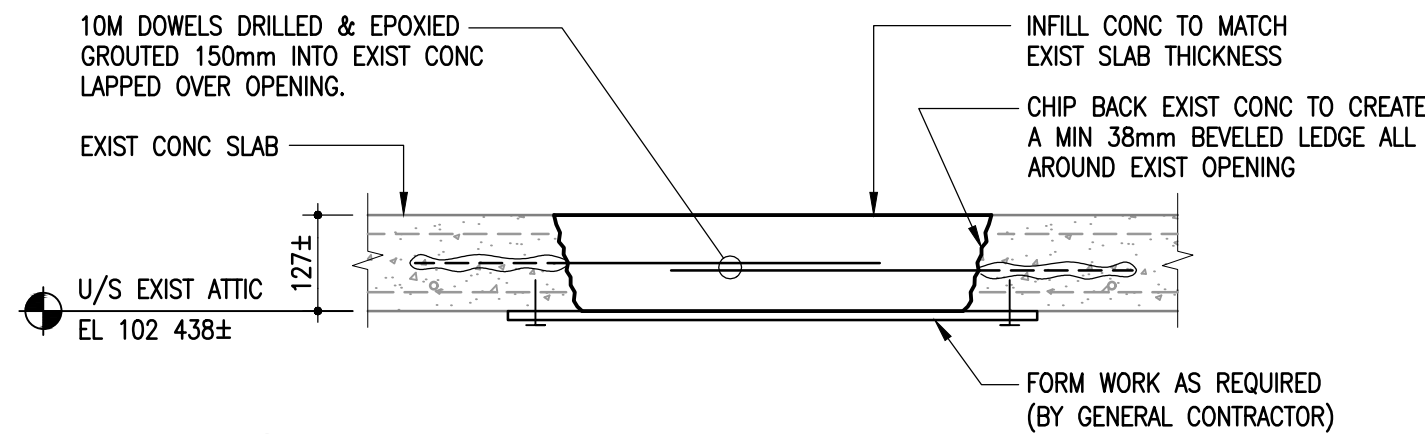
UP TO 1200 mm	200 mm HIGH 'U' BLOCK 20 MPa CONCRETE FILL 2-10M BOTTOM
1200 mm TO 2400 mm	400 mm HIGH 'U' BLOCK 20 MPa CONCRETE FILL 2-15M BOTTOM



PARTIAL EXIST MAIN FLOOR FRAMING PLAN

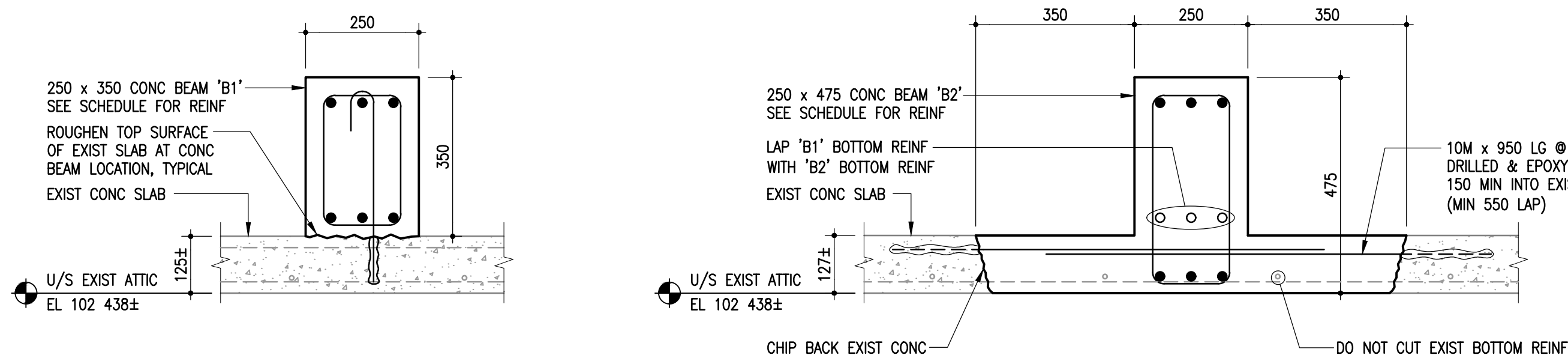
1 : 100

- EXIST DESIGN LIVE LOAD = 4.8 kPa. (TYPICAL CELLS, STORAGE, VESTIBULE, ETC.)
- EXIST OFFICE DESIGN LIVE LOAD = 2.9 kPa + PARTITION DEAD LOAD = 1.0 kPa.
- SCAN EXIST SLAB TO LOCATE REINFORCING PRIOR TO CORING ANY OPENINGS.
- COORDINATE ALL THRU FLOOR CORES WITH ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS. DO NOT CORE THRU EXIST CONC BEAMS OR REINFORCING.
- COORDINATE ANY FLOOR SLOPES WITH ARCHITECTURAL DRAWINGS.
- TOP OF EXIST MAIN FLOOR SLAB TO BE AT EL 100 000± (100'-0"±).
- NEW W200 BEAMS ARE TO BE INSTALLED 25mm BELOW THE U/S EXIST SLAB C/W 25mm NON SHRINK GROUT BETWEEN. PROVIDE 9.5# (3/8") HILTI HY200 HAS THREADED ROD ANCHORS FROM BEAM TOP FLANGE EMBEDDED 86mm INTO U/S EXIST CONC SLAB @ 900 O/C STAGGERED.
- TYPICAL 4 BEAMS THUS:
- NEW W200 BEAMS ARE TO BE LOWERED INTO THE CRAWLSPACE THROUGH THE EXIST FLOOR HATCH. THE BEAMS CAN BE SEGMENTED & SPLICED BACK TOGETHER ON SITE AS REQUIRED TO MANUEVER THEM INTO THE CRAWLSPACE. W200x31 MAX FACTORED MOMENT (M_u) = 71.0 kNm & MAX FACTORED SHEAR (V_u) = 66.0 kN. W200x27 MAX M_u = 61.0 kNm & MAX V_u = 62.0 kN.



TYPICAL CONC SLAB INFILL DETAIL

1:10



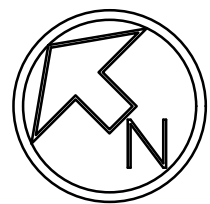
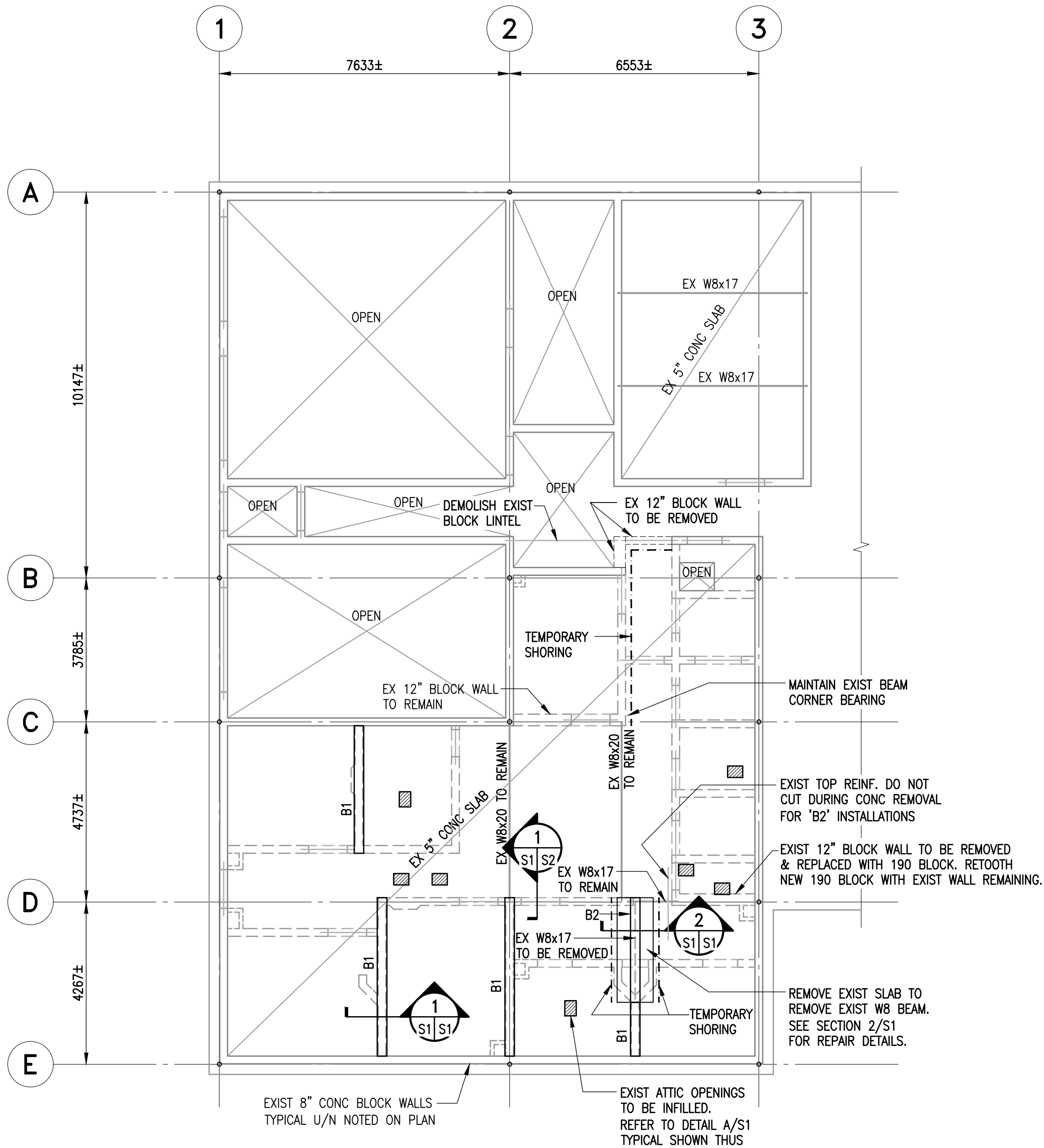
SECTION 1

1:10

SECTION 2

1:10

- TEMPORARY SHORING & FORMWORK NOT SHOWN (BY GENERAL CONTRACTOR)

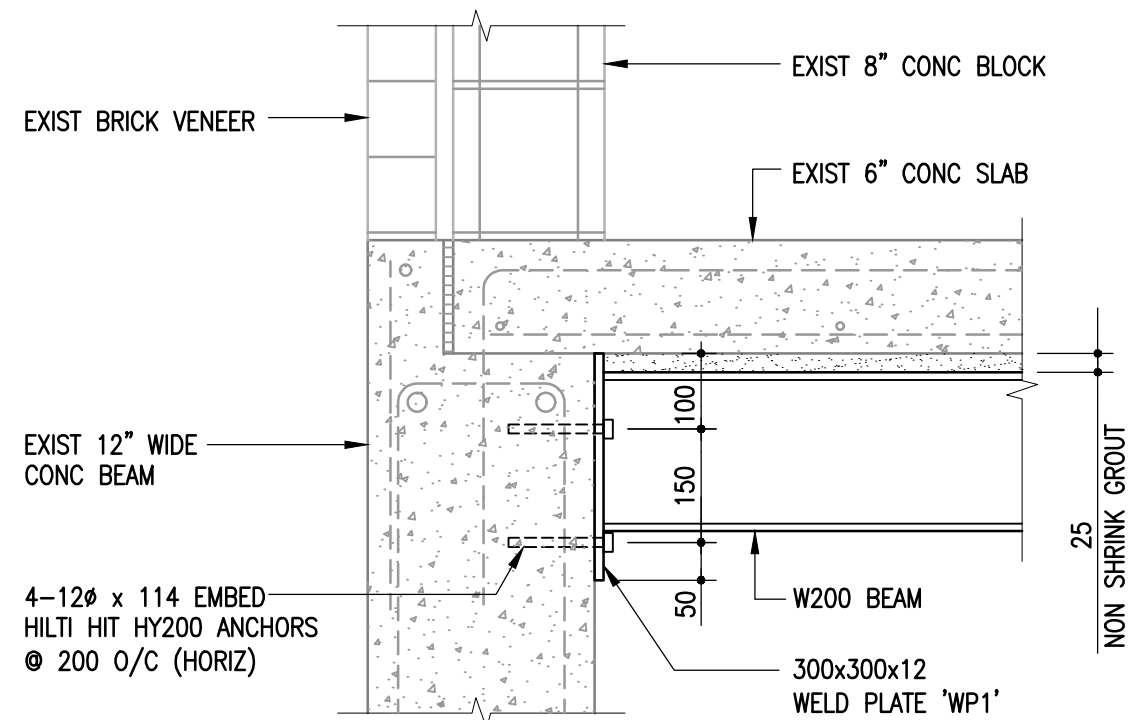


PARTIAL EXIST ATTIC FRAMING PLAN (RENOVATION)

1 : 100

- EXIST DESIGN LIVE LOAD = 2.4 kPa.
- EXIST DESIGN DEAD LOAD = 3.0 kPa.
- U/S EXIST SLAB TO BE AT EL 102 438± (108'-0"±).
- U/S EXIST STEEL W8 BEAMS TO BE AT EL 102 438± (108'-0"±).

BEAM SCHEDULE	
MARK	DESCRIPTION
B1	250 x 350 CONC BEAM R/W 3-20M TOP & BOTTOM 10M STIRRUPS @ 185 O/C PROVIDE 15M DOWELS @ 300 O/C DRILLED & EPOXY GROUTED 100mm INTO TOP OF EXIST SLAB & CAST INTO CONC BEAM
B2	250 x 475 CONC BEAM R/W 3-20M TOP & BOTTOM 10M STIRRUPS @ 250 O/C



SECTION 3

1:10

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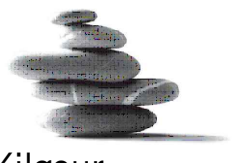
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Crosier Kilgour
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CONSULTING STRUCTURAL ENGINEERS

SEALS

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ISSUES / REVISIONS

- 2018/03/06 ISSUED FOR CLASS 'B' ESTIMATE
- 2018/03/19 50% CONSTRUCTION DRAWINGS FOR REVIEW
- 2018/06/15 99% CONSTRUCTION DRAWINGS FOR REVIEW
- 2018/07/05 99% CONSTRUCTION DRAWINGS FOR REVIEW
- 2018/08/10 100% CONSTRUCTION DRAWINGS FOR REVIEW
- 2018/08/20 ISSUED FOR TENDER

CLIENT

FEDERAL BUILDING

PROJECT

INTERIOR RENOVATIONS

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PARTIAL EXIST MAIN FLOOR
& ATTIC FRAMING PLANS
& GENERAL NOTES

PROJECT NUMBER

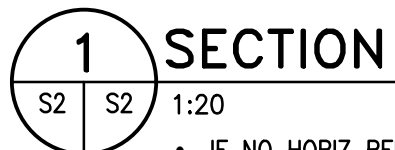
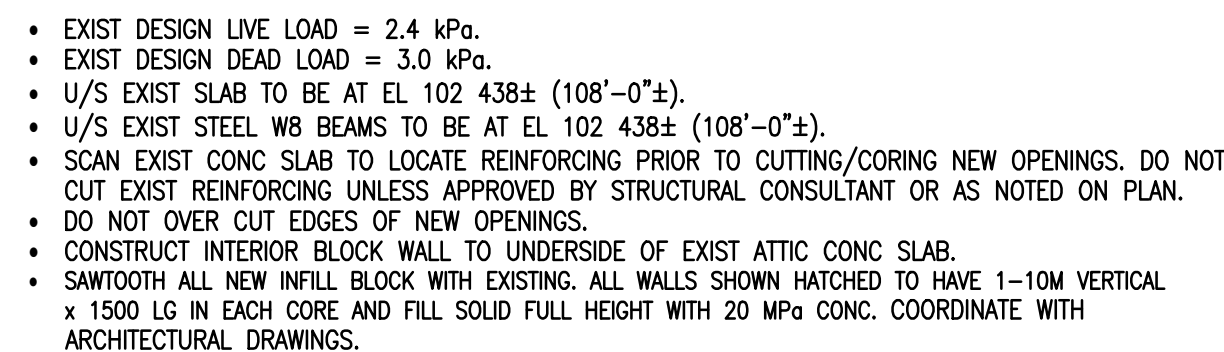
PROJECT 286

DATE

2018-08-20

SHEET NUMBER

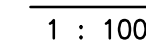
S1



- IF NO HORIZ REINF IS LOCATED BY SCANNING UPPER BOND BEAM COURSE, REMOVE BLOCK TO U/S SLAB & REPLACE WITH MASONRY LINTEL AS NOTED IN GENERAL NOTES.



- COORDINATE EXIST OPENINGS TO BE PATCHED WITH MECHANICAL & ARCHITECTURAL DRAWINGS.
- DETAIL APPLIES ALSO TO PATCHING TEMPORARY CONSTRUCTION OPENING.
- NEW STEEL DECK TO BE 38 x 0.76 TO MATCH EXIST PROFILE.



- CONTRACTOR IS RESPONSIBLE FOR PROVIDING COVER OVER THE TEMPORARY CONSTRUCTION OPENING IN ROOF WHEN NOT IN USE. NO EXTRAS WILL BE PROVIDED IF WATER/WEATHER DAMAGE OCCURS TO BUILDING DUE TO THE ROOF OPENING BEING LEFT EXPOSED.
- DO NOT CUT OR DAMAGE EXIST STEEL JOISTS WHEN CREATING THE TEMPORARY CONSTRUCTION OPENING.
- LOCATION SHOWN IS SUGGESTED, CONTRACTOR CAN ADJUST LOCATION TO BEST SUIT SITE & CONC. INSTALLATION CONDITIONS.
- FOR NEW OPENINGS 150 mm TO 300 mm PROVIDE L64x64x6.4 DECK SUPPORTS ALL AROUND OPENING.
- FOR NEW OPENINGS OVER 300 mm TO 450 mm PROVIDE L76x76x6.4 DECK SUPPORTS ALL AROUND OPENING.

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5. 2018/08/10 100% CONSTRUCTION DRAWINGS FOR REVIEW
6. 2018/08/20 ISSUED FOR TENDER

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FEDERAL BUILDING

PROJECT

INTERIOR RENOVATIONS

CONTENTS

PARTIAL EXIST ATTIC & ROOF
FRAMING PLANS

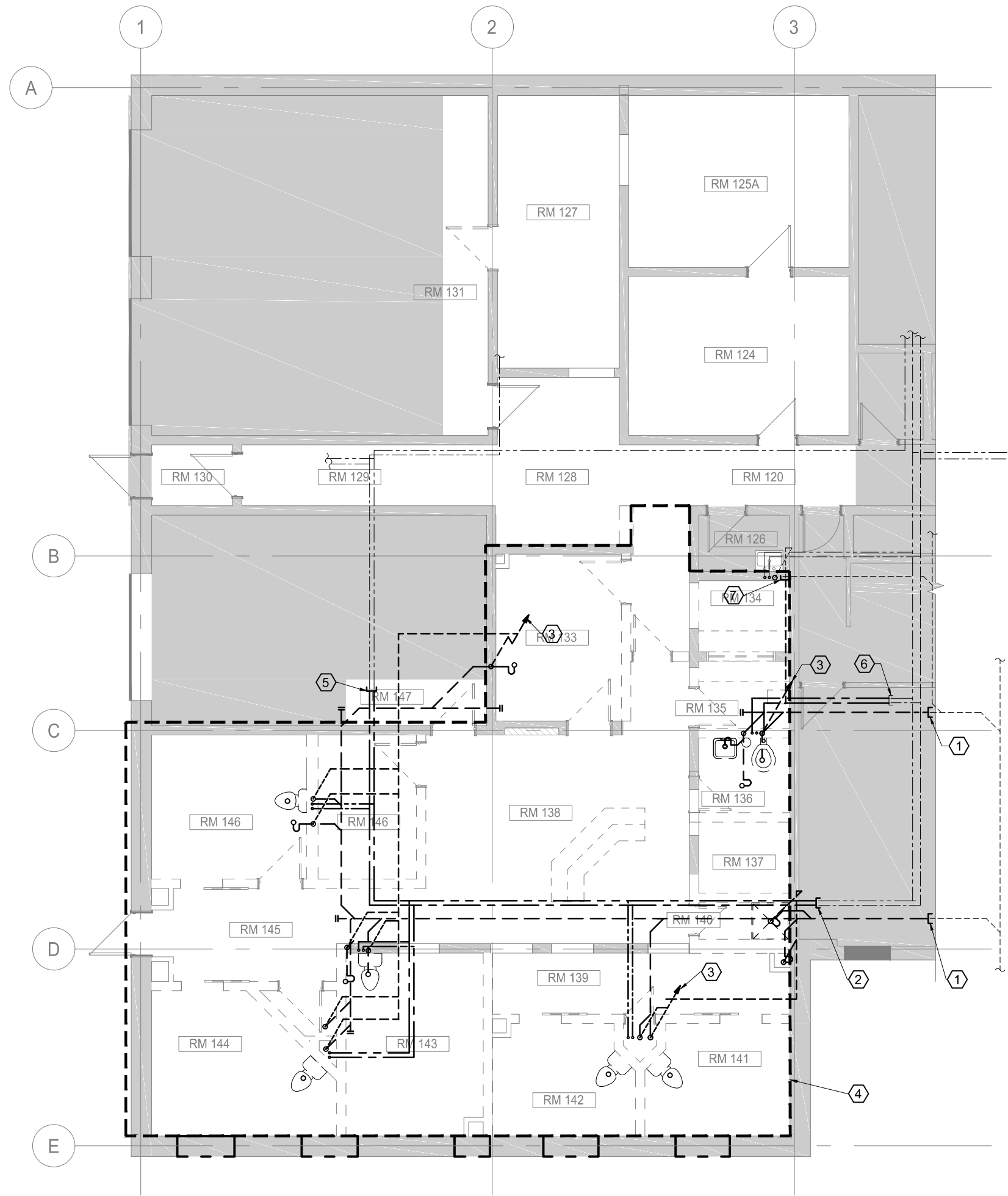
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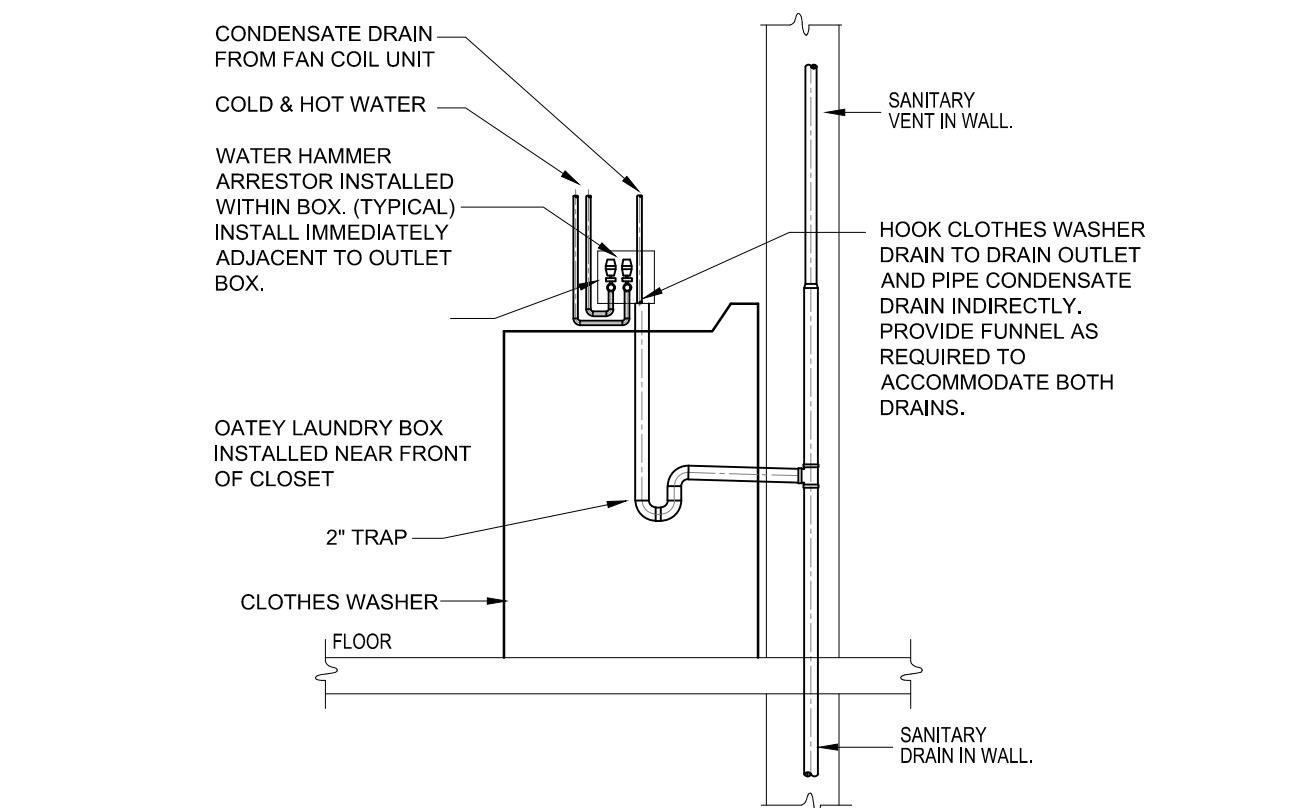
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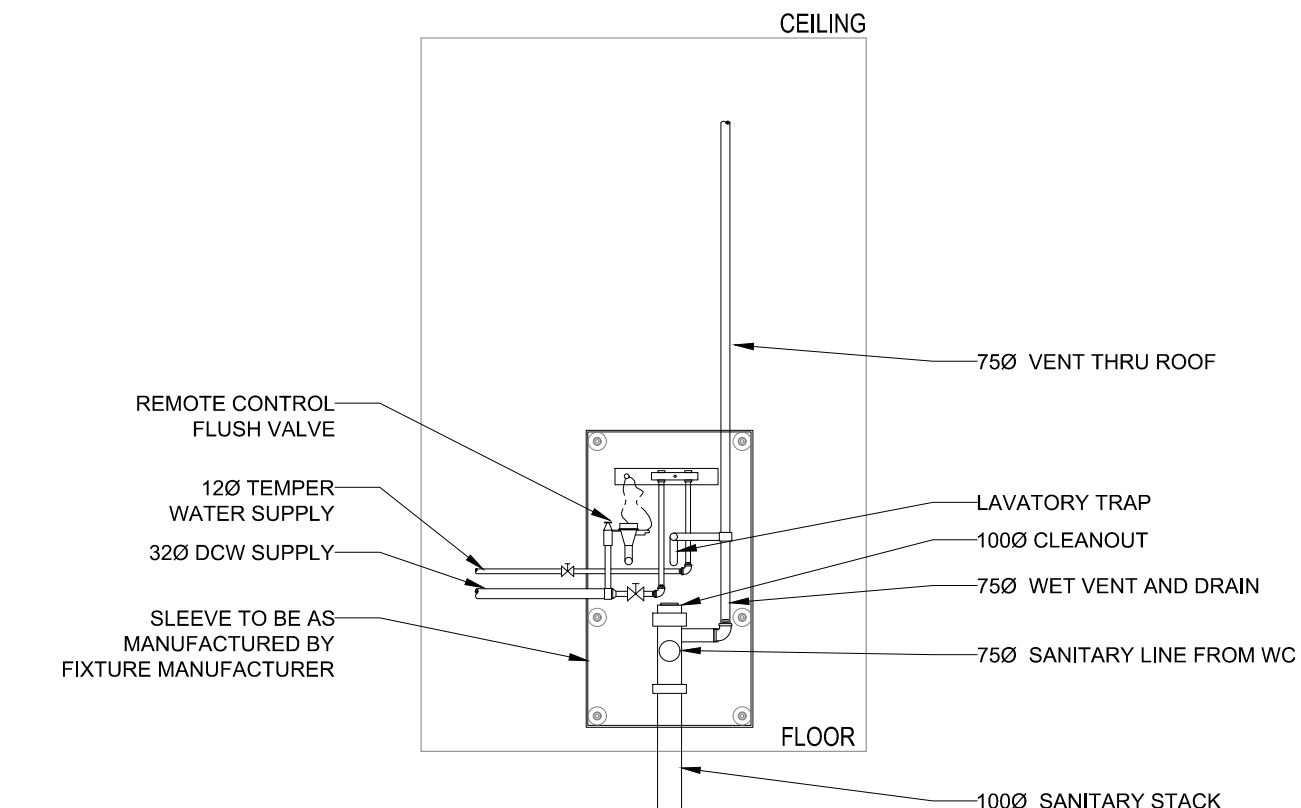
S2



1 EXISTING & DEMOLITION PLUMBING PLAN
M1 1:100



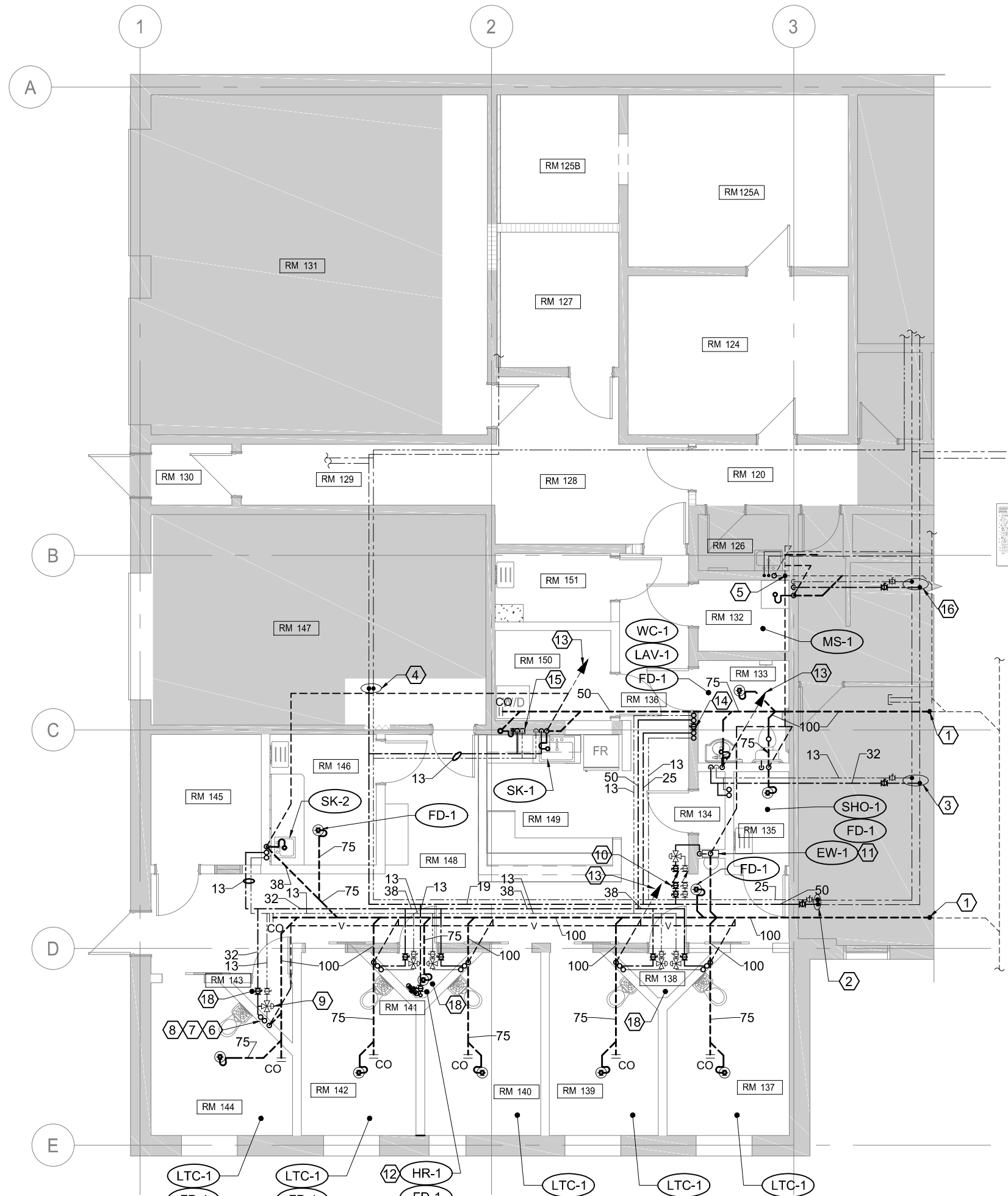
3 CLOTH WASHER DETAIL
M1 NTS



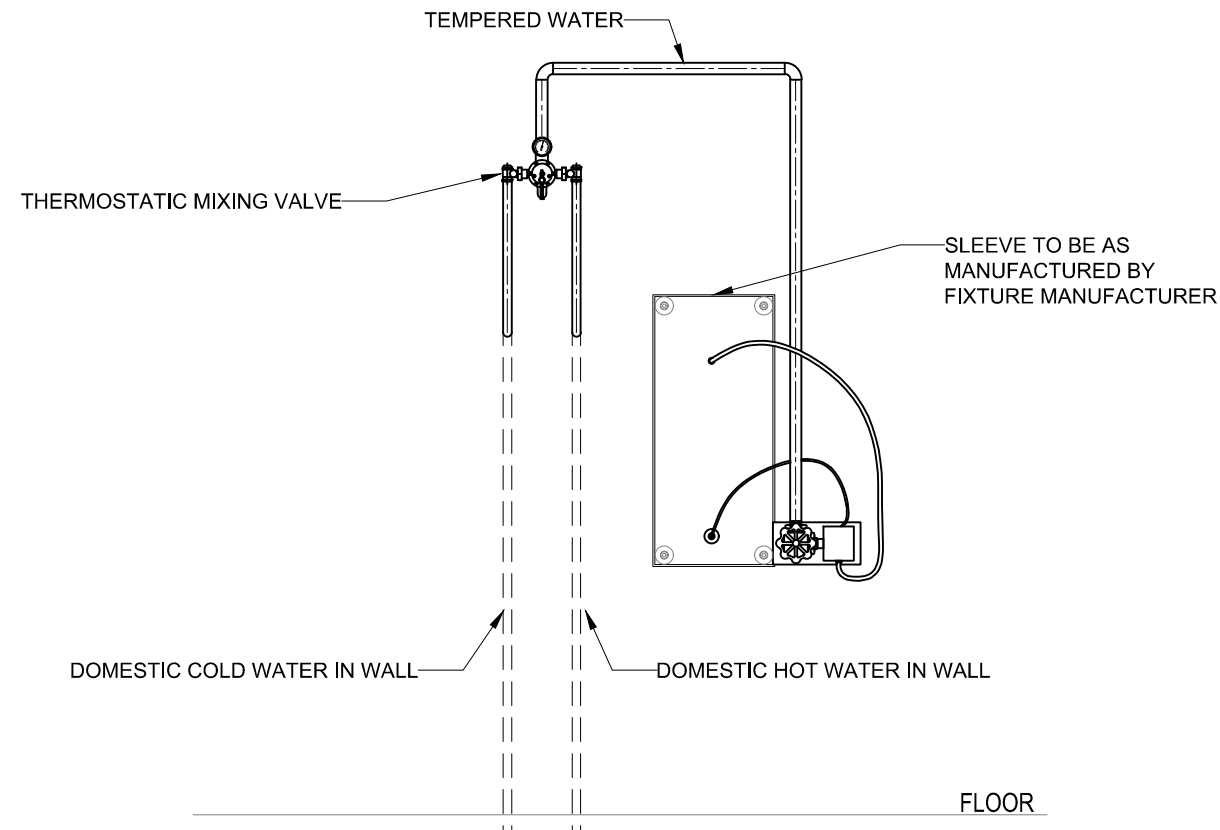
7 TYPICAL CELL FIXTURE DETAIL
M1 NTS

DEMOLITION NOTES:

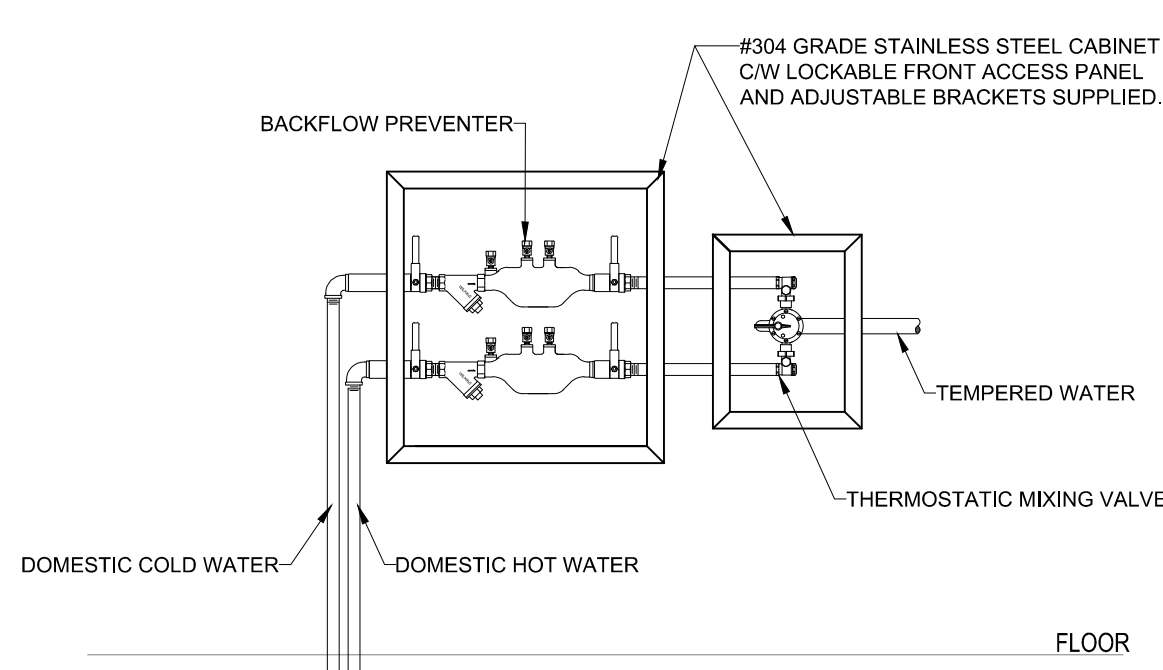
- DISCONNECT EXISTING 100mmØ SANITARY THIS LOCATION IN CRAWLSPACE AND PREPARE FOR RECONNECTION OF NEW SANITARY DRAIN. REMOVE ASSOCIATED PIPING AS SHOWN. REFER TO NEW PLUMBING DRAWING M-3 FOR NEW CONNECTION.
- DISCONNECT EXISTING 50mmØ DOMESTIC COLD WATER (DCW) AND 25mmØ DOMESTIC HOT WATER (DHW) THIS LOCATION IN CRAWLSPACE AND PREPARE FOR RECONNECTION OF NEW DCW AND DHW. REMOVE ASSOCIATED PIPING AS SHOWN. REFER TO NEW PLUMBING DRAWING M-3 FOR NEW CONNECTION.
- EXISTING VENT THRU ROOF TO BE REMOVED INCLUDING VENT CIRCUITS IN CEILING SPACE.
- OUTLINE OF RENOVATION. ALL PLUMBING FIXTURES, DOMESTIC WATER PIPING, SANITARY DRAINS AND VENTS TO BE REMOVED INCLUDING ASSOCIATED VALVES AND DEVICES. REFER TO NEW PLUMBING DRAWINGS FOR NEW LAYOUT.
- DISCONNECT EXISTING 19mmØ DCW AND DHW THIS LOCATION IN CRAWLSPACE AND PREPARE FOR RECONNECTION OF NEW DCW AND DHW. REMOVE ASSOCIATED PIPING AS SHOWN. REFER TO NEW PLUMBING DRAWING M-3 FOR NEW CONNECTION.
- CAP-OFF EXISTING 13mmØ DCW AND DHW THIS LOCATION IN CRAWLSPACE AND ABANDON. REMOVE ASSOCIATED PIPING AS SHOWN.
- CAP-OFF EXISTING VENT FROM EXISTING JANITOR ROOM IN CEILING SPACE AND PREPARE FOR RECONNECTION TO NEW VENT CIRCUIT. REFER TO NEW PLUMBING DRAWINGS FOR NEW CONNECTION.



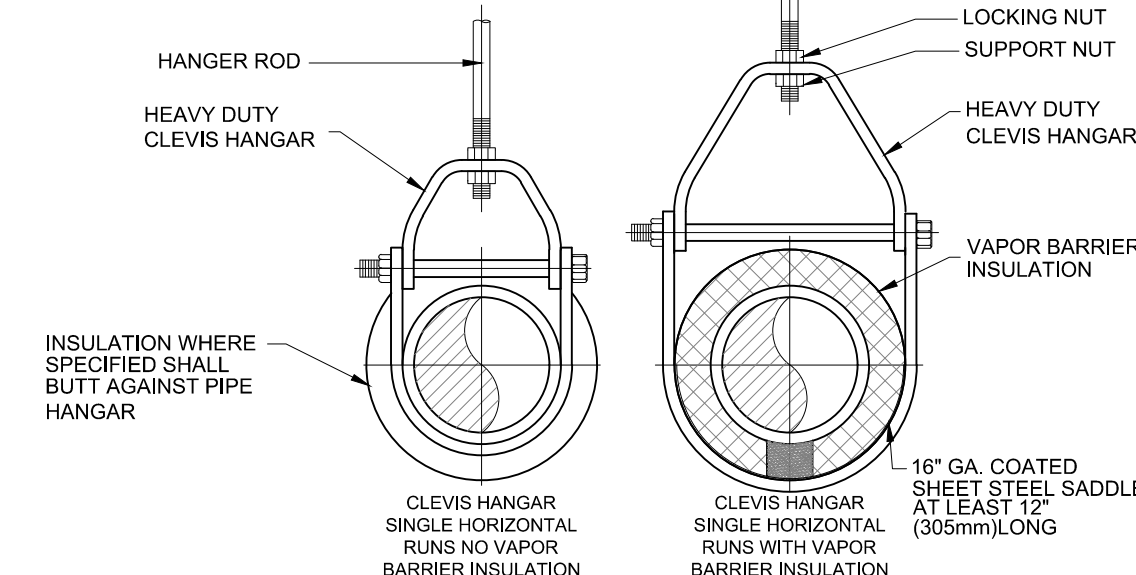
2 NEW CONSTRUCTION PLUMBING PLAN
M1 1:100



4 REAR VIEW OF SHOWER DETAIL
M1 NTS



5 BACKFLOW PREVENTER AND MIXING VALVE BOX DETAIL
M1 NTS



6 PIPE HANGER DETAIL
M1 NTS

GENERAL NOTES:

- DO NOT SCALE THIS DRAWING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION AND REPORT ANY DISCREPANCY TO THE DEPARTMENTAL REPRESENTATIVE.
- THE DRAWING ONLY SHOWS A GENERAL SCHEMATIC OF NEW SYSTEMS, ROUTINGS OF DUCTWORK AND UNITS. LOCATIONS SHALL SUIT SITE CONDITIONS AND MAY HAVE TO BE CHANGED TO AVOID CONFLICTS WITH STRUCTURE, DUCTS AND PIPES. WHEN CONFLICT CANNOT BE AVOIDED, THE DUCTWORK SHALL BE MODIFIED AS REQUIRED.
- CONTRACTOR SHALL INCLUDE FOR AND PROVIDE ALL COORDINATION BETWEEN TRADES AND CONSULTANT ON AND OFF SITE AS REQUIRED FOR INSTALLATION OF MECHANICAL AND ELECTRICAL SYSTEMS. WHERE MINOR REROUTING OF DUCTWORK OR SERVICES IS REQUIRED DUE TO ONSITE CONDITIONS, IT SHALL BE PERFORMED AT NO ADDITIONAL COST.
- CONFORM TO SPECIFICATIONS AND MANUFACTURER GUIDES FOR MATERIALS AND UNITS' INSTALLATION DETAILS.
- INSTALL ALL MECHANICAL CONTROLS AT ACCESSIBLE HEIGHT. 1150 MM (46 INCH) UNLESS OTHERWISE DIRECTED BY THE ARCHITECT. PROVIDE LOCKING CLEAR COVER IN PUBLIC AREAS.
- ALL DHW PIPES THAT PENETRATES FIRE SEPARATIONS SHALL BE PROVIDED WITH INTUMESCENT FIRESTOP SYSTEM THAT MATCH THE FIRE SEPARATION RATING.

SYMBOL LEGEND:

- EXISTING SANITARY LINE
- EXISTING DOMESTIC COLD WATER LINE
- EXISTING DOMESTIC HOT WATER LINE
- DOMESTIC COLD WATER LINE
- DOMESTIC HOT WATER LINE
- VENT LINE
- PIPE DOWN
- BALANCING DAMPER
- BACKDRAFT DAMPER
- NEW DUCT
- EXISTING DUCT
- ACOUSTICALLY LINED DUCT
- SUPPLY GRILLE
- EXHAUST GRILLE
- S - DENOTES SECURED GRILLE
- RETURN AIR GRILLE
- AIR FLOW
- CASED THERMOSTAT
- SECURE BAR
- MOTORIZED DAMPER
- FIRE STOP FLAP
- FIRE DAMPER

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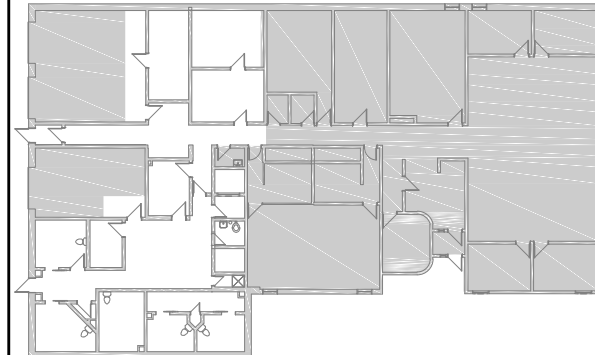
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3. 2018/08/20 100% CONSTRUCTION DRAWINGS

CLIENT FEDERAL BUILDING

PROJECT INTERIOR RENOVATIONS

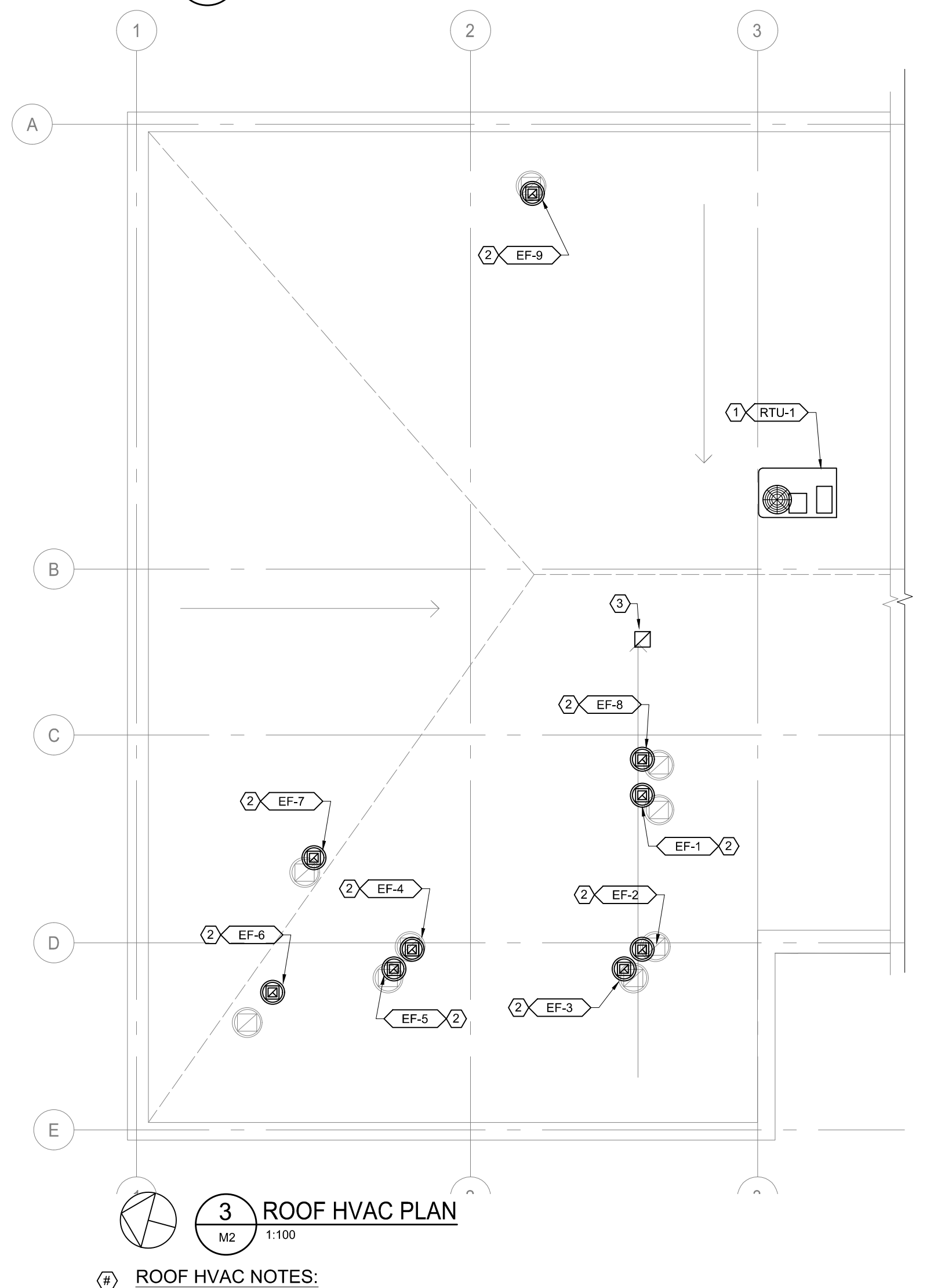
CONTENTS
EXISTING/DEMOLITION & NEW
PLUMBING PLANS AND NOTES

PROJECT NUMBER 17180

DATE 08/20/2018

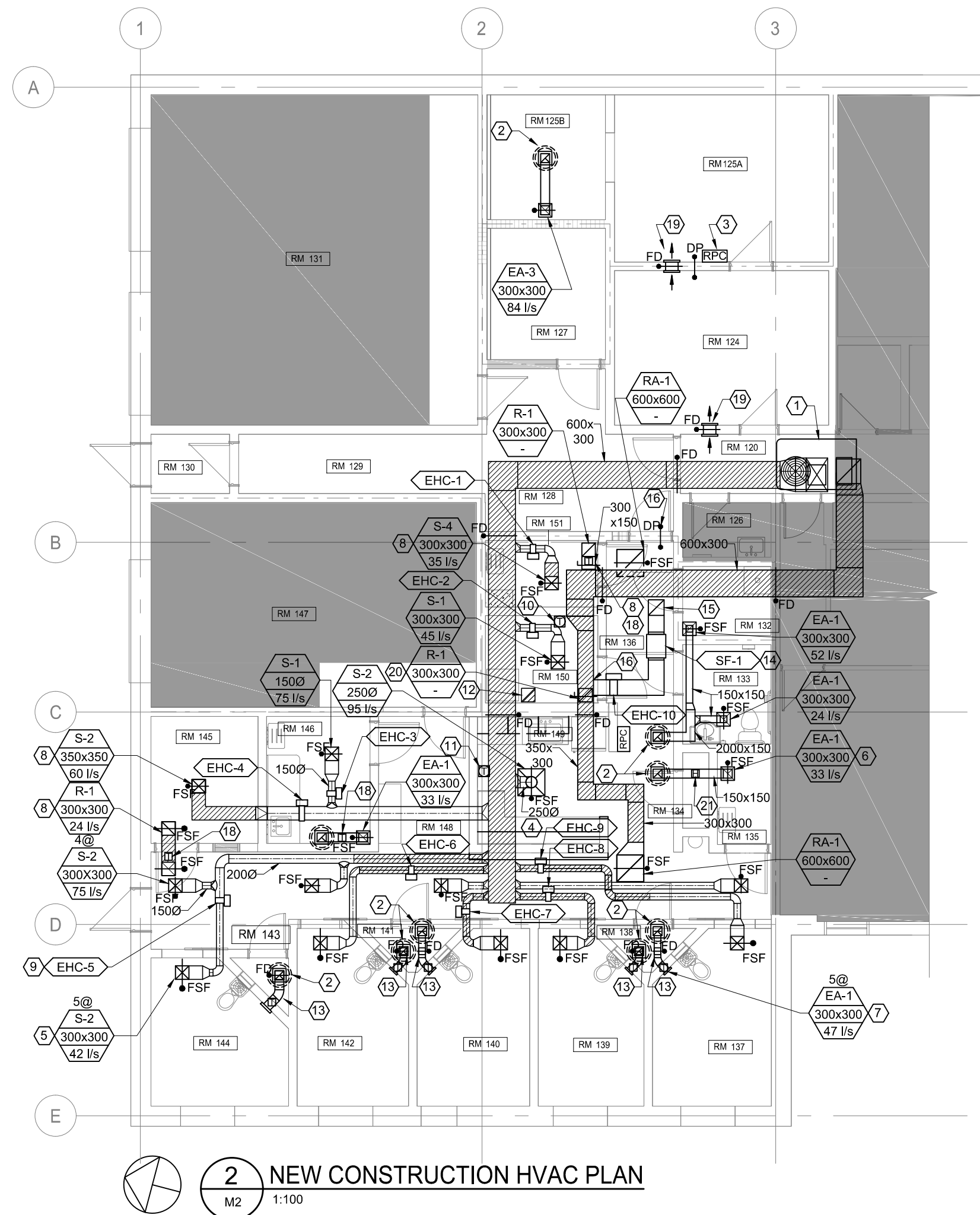
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M1



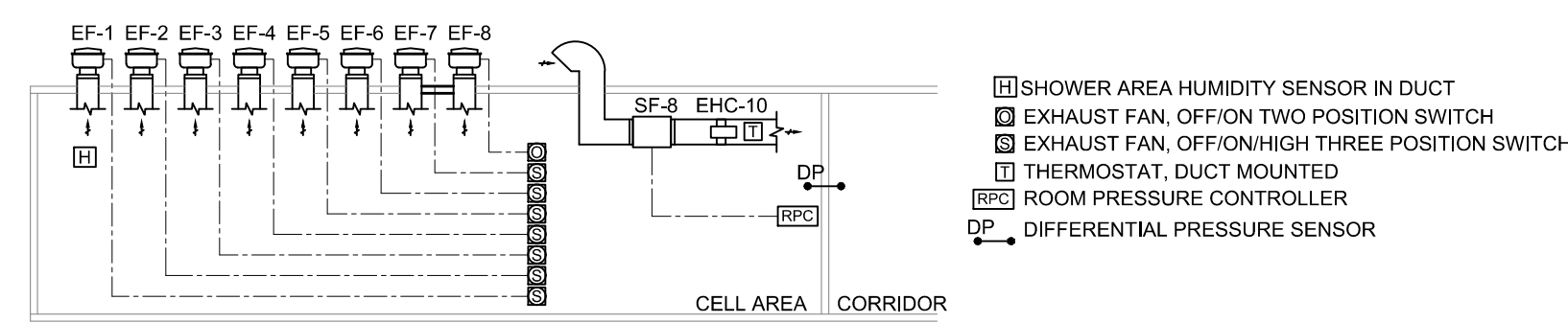
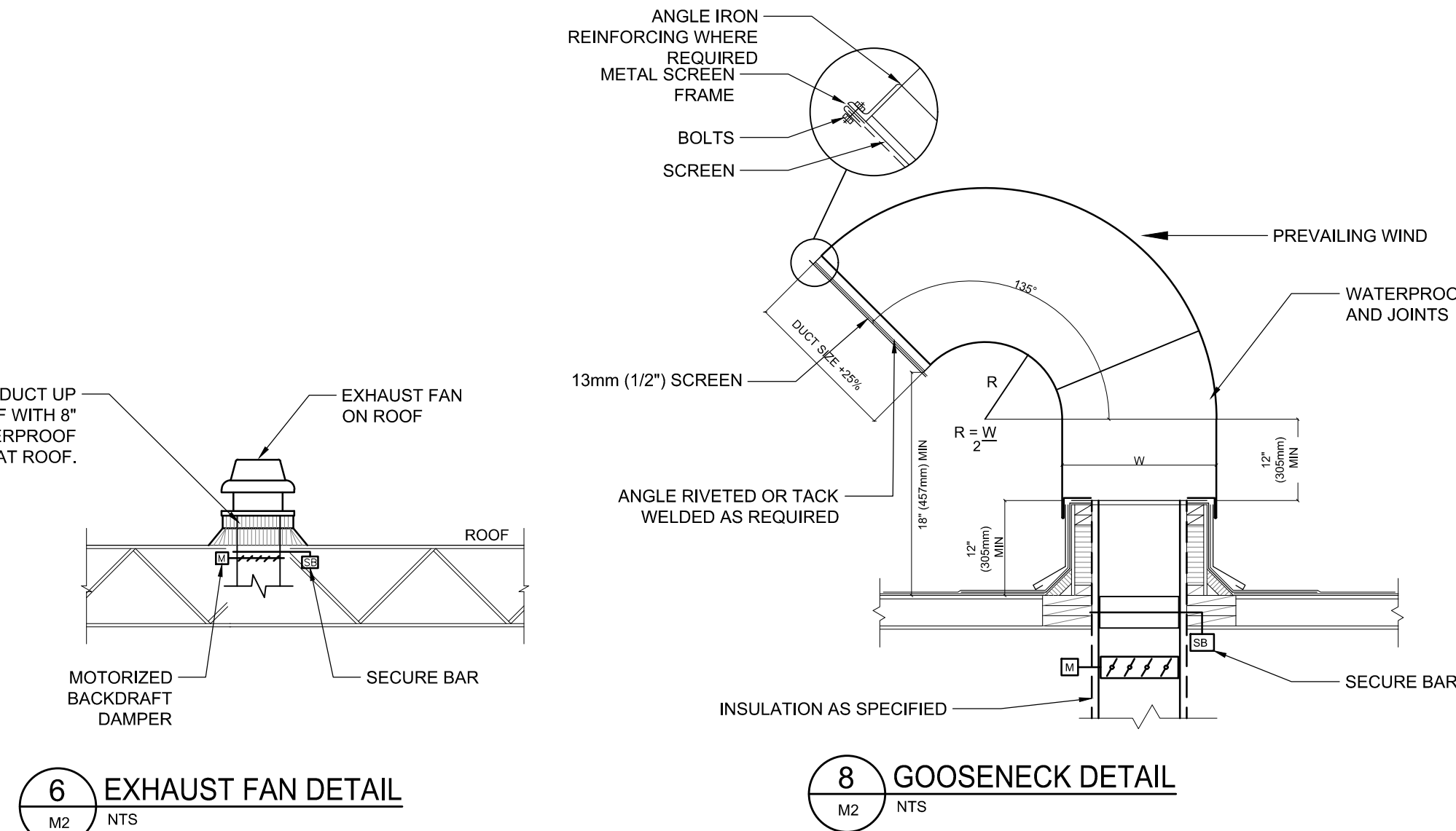
DEMOLITION KEYNOTES:

1. DEMOLISH ALL DUCTS BACK TO EXISTING ROOF TOP UNIT. DEMOLISH ALL GRILLES AND DIFFUSERS AND DUCT ACCESSORIES INCLUDING ELECTRIC REHEAT COILS.
2. DEMOLISH ALL HVAC CONTROLS AND REMOVE WIRING AND CONDUIT BACK TO SOURCE.
3. DEMOLISH EXISTING ROOF TOP UNIT ONLY WHEN REPLACING WITH NEW TO MINIMIZE DOWN TIME.
4. DEMOLISH ALL EXISTING EXHAUST FANS AND ASSOCIATED CONTROLS. REMOVE ALL GOOSE NECKS AND PATCH EXISTING ROOF PENETRATIONS WITH TERRAZZO/CEILING PENETRATIONS. ALLOW FOR REMOVING CURB AND RE-ROOFING THE AREA. DO NOT JUST CAP GOOSE NECK.



 NEW HVAC NOTES:

1. NEW ROOF TOP UNIT (RTU-1) ON ROOF ABOVE, MATCH EXISTING CONFIGURATION AND REUSE EXISTING ROOF CURB AND DUCT PENETRATIONS. MOOSE OUTSIDE AIR DAMPER, OUTSIDE AIR DAMPER TO ONLY OPERATE DURING ECONOMIZER MODE. OUTSIDE AIR TO BE PROVIDED BY SF-1 TO RETURN SIDE OF RTU-1.
2. OUTLINE OF NEW EXHAUST FAN ON ROOF ABOVE, OFFSET DUCT WORK IN ATTIC SPACE FROM GRILLE TO FAN TO ALLOW FOR AVOIDING STRUCTURE. PROVIDE 200X200 DUCT THROUGH ROOF TO EXHAUST FAN, PROVIDE INSULATED MOTORIZED DAMPER AT FAN INLET. INTERLOCK WITH FAN OPERATOR ENSURE A MINIMUM OF TWO 90 DEGREE BENDS ARE INSTALL IN ALL EXHAUST DUCTWORK PRIOR TO DISCHARGE.
3. DIFFERENTIAL PRESSURE (DP) SENSOR AND ROOM PRESSURE CONTROLLER (RPC) TO CONTROL ROOM TO -0.05 IN. W.C. STATIC PRESSURE. MODULATE EF-9 VARIABLE SPEED MOTOR TO MAINTAIN NEGATIVE PRESSURE.
4. LOCATE EF-1 THOUGH 7 TWO SPEED SWITCHES AND EF-8 ON/OFF SWITCH AT GUARDS DESK, COORDINATE LOCATION AND WIRING WITH ELECTRICAL DETAILS. PROVIDE LAMACOIL LABELS FOR EACH SWITCH.
5. SUPPLY AIR SECURITY CEILING GRILLE.
6. EXHAUST AIR SECURITY CEILING GRILLE.
7. SECURITY EXHAUST GRILL AT LOW LEVEL, MAXIMUM 12" ABOVE THE FINISHED FLOOR.
8. STC 46 RATED DUCT SILENCER.
9. ELECTRIC REHEAT COIL AND ASSOCIATED DUCT MOUNTED THERMOSTAT, TYPICAL FOR ALL CELLS AND ENCLOSED ROOMS.
10. WALL MOUNTED THERMOSTAT FOR CONTROL OF ROOM ELECTRIC REHEAT COIL.
11. WALL MOUNTED THERMOSTAT FOR RTU CONTROL.
12. VENT DRYER THROUGH ROOF WITH GOOSENECK ON ROOF, PROVIDE RATED SHAFT IN ATTIC SPACE TO ROOF FOR VENT DUCT.
13. DROP DUCT DOWN TO LOWER LEVEL.
14. NEW SF-1 IN ATTIC, SUSPEND FROM ROOF STRUCTURE USING SPRING ISOLATORS.
15. 350X350 PENETRATION THROUGH ROOF TO NEW INTAKE GOOSE NECK, PROVIDE INSULATED MOTORIZED DAMPER AT ROOF, INTERLOCK WITH FAN OPERATION.
16. CONNECT SF-1 DISCHARGE TO RETURN SIDE OF RTU-1.
17. SF-1 DIFFERENTIAL PRESSURE (DP) SENSOR.
18. PROVIDE TEMPERATURE SENSOR IN DUCTWORK FOR CONTROL OF ROOM REHEAT COILS. PROVIDE 300x300 SECURE ACCESS PANEL IN CEILING SPACE TO ACCESS.
19. PROVIDE 300x300 AIR TRANSFER WITHxxx, PROVIDE SECURE MESH COVERING ON BOTH SIDES OF OPENING WITH 3mm300mm STEEL BOARDER SECURED WITH LAG BOLTS. REFER TO ARCHITECTURAL DETAILS.
20. R-1 GRILLE ON BOTTOM SIDE OF RETURN DUCT.
21. DUCT HUMIDISTAT FOR CONTROL OF SHOWER EF-1.



CELL AREA VENTILATION SEQUENCE OF OPERATIONS

EXHAUST FANS EF-1 TO 8 AND SUPPLY FAN SF-1 SHALL BE PERMITTED TO OPERATE ONLY WHEN RTU-1 FAN IS RUNNING. RTU-1 FAN SHALL RUN CONTINUOUSLY. INTERLOCK EF-1 TO 8 AND SF-1 SUCH THAT THEY ARE DISABLED IF SF-1 IS OFF (AS IN THE CASE OF EMERGENCY POWER MODE).

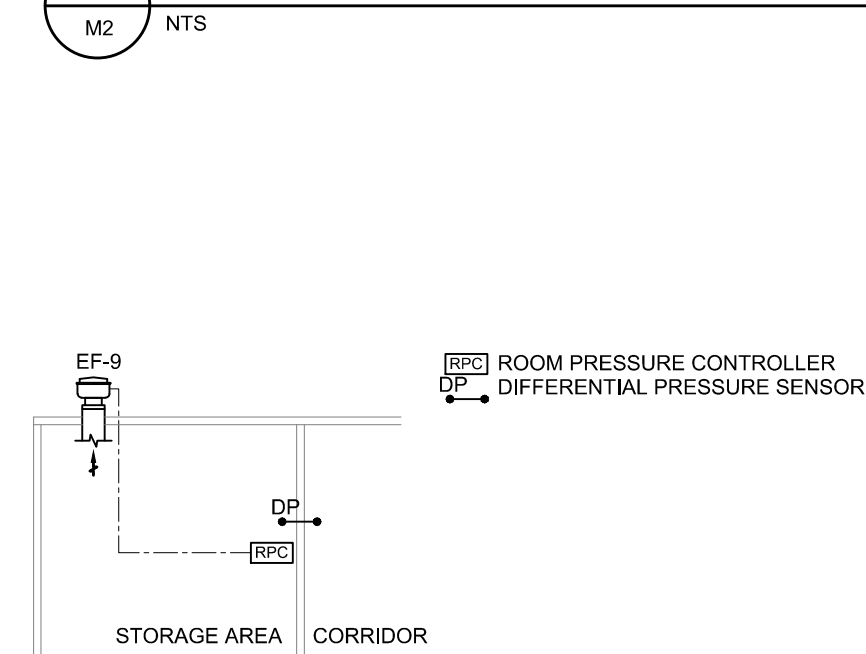
PROVIDE OFF/ON/HIGH THREE POSITION SWITCH TO OPERATE EF-1 TO 7. WHEN SWITCH TO ON, OPEN ASSOCIATED DAMPER AND RUN FAN AT MINIMUM AIR VOLUME. WHEN SWITCHED TO HIGH, RAMP ECM MOTOR TO MAXIMUM AIR VOLUME. FOR SHOWER AREA, FAN SHALL ALSO RAMP TO MAX VOLUME IF DUCT HUMIDISTAT EXCEEDS 60% ADJUSTABLE.

PROVIDE OFF/ON TWO POSITION SWITCH FOR EF-8. WHEN SWITCH TO ON, OPEN ASSOCIATED DAMPER AND ENERGIZE EF-8

MODULATE ECM MOTOR ON SF-8 TO MAINTAIN NEGATIVE PRESSURE DIFFERENTIAL BETWEEN CELL AND CORRIDOR. MAINTAIN DIFFERENTIAL OF -0.05 IN. W.C., ADJUSTABLE VIA ROOM PRESSURE CONTROLLER.

MODULATE SCR ELECTRIC HEATING COIL EHC-10 TO MAINTAIN DISCHARGE AIR TEMPERATURE OF 13 C (55F)

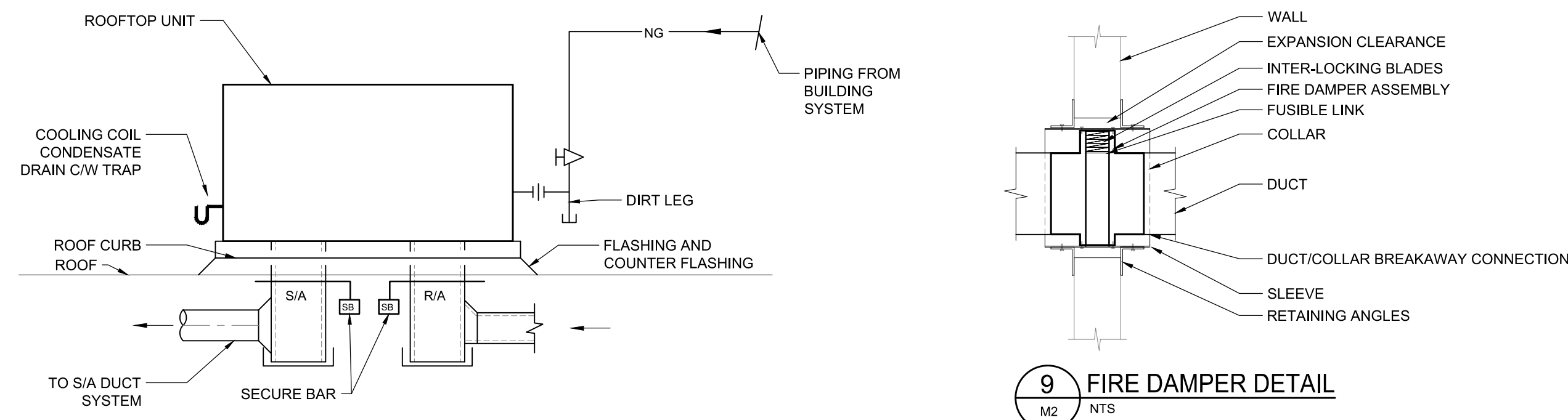
4 CELL AREA VENTILATION AIR CONTROLS



STORAGE AREA EXHAUST SEQUENCE OF OPERATIONS

EF-9 TO RUN CONTINUOUSLY, MODULATE ECM MOTOR ON EF-9 TO MAINTAIN NEGATIVE PRESSURE DIFFERENTIAL BETWEEN STORAGE AREA AND ADJACENT ROOM. MAINTAIN DIFFERENTIAL OF -0.05 IN. W.C., ADJUSTABLE VIA ROOM PRESSURE CONTROLLER.

5 STORAGE AREA EXHAUST AIR CONTROLS



9 FIRE DAMPER DETAIL

- NOTES:
1. FIRE DAMPER TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION
 2. DUCT/COLLAR BREAKAWAY CONNECTION TO BE APPROVED.

GENERAL NOTES:

- DO NOT SCALE THIS DRAWING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION AND REPORT ANY DISCREPANCY TO THE DEPARTMENTAL REPRESENTATIVE.
- THE DRAWING ONLY SHOWS A GENERAL SCHEMATIC OF NEW DUCTWORK. CONTRACTOR SHALL VERIFY ALL EXISTING DUCTS, SUEIT SUEIT SITE CONDITIONS AND MAY HAVE TO BE CHANGED TO AVOID CONFLICTS WITH STRUCTURE, DUCTS AND PIPES. WHEN CONFLICT OCCURS, CONTRACTOR SHALL AVOIDED. THE DUCTWORK SHALL BE MODIFIED AS REQUIRED.
- CONTRACTOR SHALL INCLUDE FOR AND PROVIDE ALL COORDINATION BETWEEN TRADES AND CONSULTANT ON AND OFF SITE AS REQUIRED FOR INSTALLATION OF MECHANICAL AND ELECTRICAL SYSTEMS. CONTRACTOR SHALL REPORTING OF DUCTWORK OR SERVICES IS REQUIRED DUE TO ONSITE. CONDITIONS. IT SHALL BE PERFORMED AT NO ADDITIONAL COST.
- CONFORM TO SPECIFICATIONS AND MANUFACTURER GUIDES FOR MATERIALS AND UNITS' INSTALLATION DETAILS.
- INSTALL ALL MECHANICAL CONTROLS AT ACCESSIBLE HEIGHT, 1500 OR 60 INCH UNLESS OTHERWISE SPECIFIED BY THE ARCHITECT. PROVIDE LOCKING CLEAR VIEW IN PUBLIC AREAS.
- PROVIDE FIRE STOP FLAPS ON CEILING PENETRATIONS FOR CEILING FISH AND GRILLS AIR AND FIRE DAMPERS FOR ALL DUCTS PENETRATING THE CEILING. MAIN DUCTWORK AND GRILLS SHALL BE AT LEAST 10' ABOVE FLOOR. IF THEY ARE REQUIRED TO DROP TO LOWER LEVEL IN THE CELLS.

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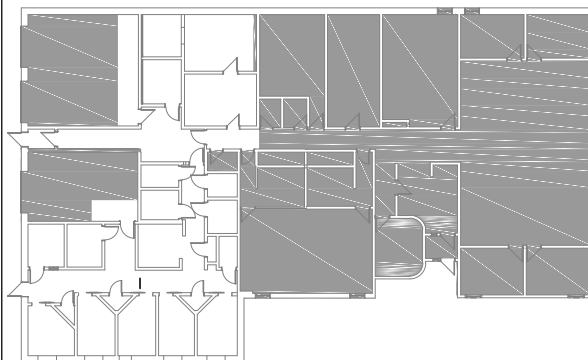
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ISSUES / REVISIONS

1.	2018/02/16	50% CONSTRUCTION DRAWINGS
2.	2018/07/05	99% CONSTRUCTION DRAWINGS
3.	2018/08/20	100% CONSTRUCTION DRAWINGS

CLIENT	FEDERAL BUILDING
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PROJECT	INTERIOR RENOVATIONS
---------	----------------------

CONTENTS

EXISTING/DEMOLITION &
NEW HVAC PLANS AND NOTES

PROJECT NUMBER	17180
----------------	-------

SHEET NUMBER

M2

DIFFUSER AND GRILLE SCHEDULE		
TAG	MODEL	REMARKS
S-1	VIRTUCOM METALS SCO (WALL)	REFER TO DRAWING FOR FACE SIZE
S-2	VIRTUCOM METALS SCO (CEILING)	REFER TO DRAWING FOR FACE SIZE
R-1	VIRTUCOM METALS SCO (CEILING)	REFER TO DRAWING FOR FACE SIZE
EA-1	VIRTUCOM METALS SCO (WALL)	REFER TO DRAWING FOR FACE SIZE
EA-2	VIRTUCOM METALS SCO (CEILING)	REFER TO DRAWING FOR FACE SIZE
NOTES: 1. PROVIDE SECURITY CAULKING AROUND ALL GRILLES AND DIFFUSERS, REFER TO ARCHITECTURAL SPECIFICAITONS. 2. ALL HARDWARE TO BE TAMPER PROOF, TORX TYPE. ACCEPTABLE MANUFACTURERS: SECURE GRILLES AND DIFFUSER SHALL BE LIMITED TO VIRTUCOM SCO SECURITY, ENEROUND SECURITY, SIMPSON MODEL V-2 OR CHUBB OP-20V. NO OTHER SUBSTITUTIONS WILL BE PERMITTED.		

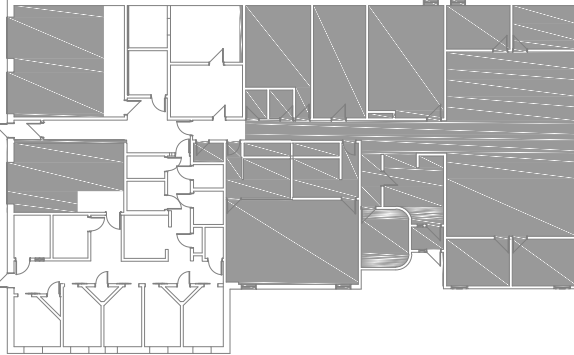
ELECTRIC HEATING COIL SCHEDULE (Based on Price)												
TAG	ROOM SERVED	AIR SIDE						HEATING OUTPUT		NOTES		
		FLOW RATE (L/s) (CFM)	PRESS. DROP (Pa) (in.WC)	ENT. TEMP. (C) (F)		LVG. TEMP. (C) (F)		(kW) (MBH)				
EHC-1	151 PRIS. PHONE	35	74	25	0.10	12.8	55.0	60.0	140.0	2.0	6.8	1, 2
EHC-2	150 EFFECTS	45	95	25	0.10	12.8	55.0	60.0	140.0	2.6	8.8	1, 2
EHC-3	146 BREATHTESTING	75	159	25	0.10	12.8	55.0	60.0	140.0	4.3	14.6	1, 2
EHC-4	145 INTERVIEW	60	127	25	0.10	12.8	55.0	60.0	140.0	3.4	11.7	1, 2
EHC-5	144 CELL 5 HOLDING	42	89	25	0.10	12.8	55.0	60.0	140.0	2.4	8.2	1, 3
EHC-6	142 CELL 4	42	89	25	0.10	12.8	55.0	60.0	140.0	2.4	8.2	1, 3
EHC-7	140 CELL 3	42	89	25	0.10	12.8	55.0	60.0	140.0	2.4	8.2	1, 3
EHC-8	139 CELL 2	42	89	25	0.10	12.8	55.0	60.0	140.0	2.4	8.2	1, 3
EHC-9	137 CELL 1	42	89	25	0.10	12.8	55.0	60.0	140.0	2.4	8.2	1, 3
EHC-10	MAKE UP AIR	42	1,152	25	0.10	-30.0	-22.0	15.6	60.0	29.9	102.0	1, 3
NOTES: 1. SCR CONTROL WITH MODULATING STAGES OF HEAT; PROVIDE AIR FLOW PROVING SWITCH AND HIGH LIMIT. 2. ROOM THERMOSTAT WITH SECURE METAL COVER. 3. DUCT MOUNTED THERMOSTAT.												

PLUMBING FIXTURE SCHEDULE		
Label	Fixture	Specification
LTC-1	Lavatory-Toilet Comby	PENAL-WARE 18" WIDE LAVATORY/TOILET COMBINATION, FLOOR MOUNTED CABINET WITH TOILET WALL WASTE OUTLET CONNECTION AND LAVATORY WALL OUTLET WASTE CONNECTION, FABRICATED FROM 14 GAGE TYPE 304 STAINLESS STEEL AND POLISH SATIN FINISH, BLOW JET TYPE WITH A MINIMUM FLUSH OF 25 PSI (175 kPa) FLOW PRESSURE, 1.28 GPF (6.0 LPF), 3-1/2" TRAP SEAL AND FULLY ENCLOSED, CONCEALED FLUSH VALVE WITH 1-1/2" NPT CONNECTION REAR MOUNT WASTE OUTLET CONNECTION, TOILET ORIENTATION CENTERED (CT), PROVIDE AIR CONTROL SINGLE TEMP METERING VALVE WITH BARRIER-FREE COMPLIANT PUSH BUTTON AND PENAL HEMISPHERICAL BUBBLER, VALVE TO BE LEAD FREE, PROVIDE ELECTRONIC FLUSH VALVE. PROVIDE MOUNTING HARDWARE. ACCEPTABLE MANUFACTURERS ARE ACORN 1440 AND WILLOUGHBY 1806.
WC-1	Water Closet-Barrier-Free Design	KOHLER HIGHLINE TOILET BOWL K-4405 VITREOUS CHINA LOW CONSUMPTION (4.8 LPF/1.28GPF) 17-1/8" (435mm) RIM HEIGHT, ELONGATED BOWL, FULLY GLAZED 2-1/4" (57mm) TRAPWAY WITH 2" (51mm) BALL PASS, 1-1/2" INLET TOP SPUD, SLOAN ECOS #111-1.6/1.1 HW-CP, EXPOSED FLUSHOMETER FOR TOP SPUD TOILET, CHROME PLATED, 4.2 L FLUSH FACTORY SET FLOW, QUIET ACTION 'PERMEX' DIAPHRAGM TYPE WITH LINEAR FILTERED BY-PASS AND VORTEX CLEANSING ACTION, INFRARED SENSOR WITH MULTIPLE-FOCUSED LOBULAR SENSING FIELDS FOR HIGH AND LOW TARGET SENSING, COURTESY FLUSH OVER-RIDE BUTTON, V.P. SMOOTH DESIGN STOP CAP ON BAK-CHEK ANGLE STOP (SCREWDRIWER OPERATED), FLUSH TUBE FOR 292 MM ROUGH-IN, HIGH PRESSURE VACUUM BREAKER, PATENTED 'ISOLATED OPERATOR' FOR SUPERIOR PERFORMANCE UNDER A HEAVY DUTY METAL STYLISH COVER WITH PLASTIC OPTICAL FACE, 4 VA POWER REQUIRED PER UNIT, SLOAN #EL-451, BOX MOUNT HARD WRED TRANSFORMER, 120 VAC INPUT/ 6 VAC OUTPUT, 50/60 HZ (25 VA), WILL OPERATE UP TO 6 'ECOS' FLUSH VALVE UNITS. PROVIDE WALL FLANGE, (SAME MATERIAL AS THE CONNECTING PIPE DRAIN), WITH ALL BRASS BOLTS AND WITH RUBBER GASKET, CENTOCO #1500STSCC.001 TOILET SEAT, EXTRA HEAVY DUTY, FOR ELONGATED BOWL, OPEN FRONT, WHITE SOLID PLASTIC, LESS COVER, STAINLESS STEEL CHECK HINGES, METAL FLAT WASHERS STAINLESS STEEL POSTS AND NUTS. ACCEPTABLE MANUFACTURERS ARE AMERICAN STANDARD AND CONTRAC.
LAV-1	Lavatory Barrier-Free Design	KOHLER BRYANT BATHROOM SINK K-2699-4, VITREOUS CHINA 19" WIDE x 15" x 6-7/8" DEEP BOWL, FRONT OVERFLOW, DROP-IN, SUPPLIED WITH MOUNTING KIT, FAUCET LEDGE, 4" (102mm) CENTRES. KOHLER FAUCET JULY BATHROOM SINK FAUCET CAST BRASS SINGLE CONTROL, CERMIC CARTRIDGE WITH TEMPERATURE LIMIT STOP, 4" (102mm) CENTRESET LESS POP-UP, STATIONARY SPOUT, CHROME FINISH, VANDAL RESISTANT OUTLET 1.2 GPM (4.5 LPM), McGUIRE P-TRAP CHROME PLATED CAST BRASS SLIP NUTS, GRID DRAIN LESS OVERFLOW TO BE McGUIRE WITH 17 GAUGE 1-1/4" x 6" SEAMLESS BRASS TAILPIECE, BRASS LOCKNUT, HEAVY RUBBER BASIN WASHER AND FIBER FRICTION WASHER, QUARTER TURN STANDARD STOP WITH BRAIDED STAINLESS STEEL LAVATORY SUPPLY, ACCEPTABLE MANUFACTURERS ARE AMERICAN STANDARD AND CONTRAC.
SK-1	Kitchenette Sink	FRANKE COMMERCIAL LBS7808P-1 SINGLE BOWL COUNTERTOP MOUNT SINK, 765mm (30-1/8") x 559mm (20") x 203mm (8") DEEP, COUNTER MOUNTED, WITH LEDGE, MOUNTING KIT PROVIDED, FULLY UNDERCOATED TO REDUCE CONDENSATION AND RESONANCE, FACTORY APPLIED RIM SEAL, AMERICAN STANDARD #4101.100 ARCH SINGLE CONTROL KITCHEN FAUCET WITH SWIVEL PULL-OUT SPRAY, TOGGLE BUTTON ACTIVATION DECK MOUNTED, CHROME PLATED SOLID CAST BRASS LEAD-FREE BODY, SINGLE LEVER, 1/4 TURN CERAMIC DISC VALVE CARTRIDGES, WITH PRESSURE COMPENSATING 5.7 LPM (1.5GPM) AERATOR OUTLET, OPEN GRID DRAIN, CHROME PLATED CAST BRASS ONE PIECE TOP, 17 GA. (1.5mm) TUBULAR 32mm (1-1/4") TAILPIECE, FAUCET SUPPLIES, CHROME PLATED POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 10mm (3/8") I.P.S. INLET x 76mm (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEONS AND FLEXIBLE COPPER RISER, P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 32mm (1-1/4") SIZE, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND, ACCEPABLE MANUFACTURERS ARE KOHLER AND AMERICAN STANDARD FOR SINK AND DELTA FAUCET AND KOHLER FOR SINK FAUCET.
SK-2	Breathalyzer Room Sink	FRANKE COMMERCIAL LBS6808-1 SINGLE BOWL COUNTERTOP MOUNT SINK, 508mm (20") x 521mm (20 1/2") x 203mm (8") DEEP, COUNTER MOUNTED, WITH LEDGE, MOUNTING KIT PROVIDED, FULLY UNDERCOATED TO REDUCE CONDENSATION AND RESONANCE, FACTORY APPLIED RIM SEAL, AMERICAN STANDARD #4175.501.F15 COLONY SOFT SINGLE CONTROL FAUCET WITH LOW PROFILE SWIVEL SPOUT, CHROME PLATED SOLID CAST BRASS LEAD-FREE BODY, SINGLE LEVER, 1/4 TURN CERAMIC DISC VALVE CARTRIDGES, WITH PRESSURE COMPENSATING 5.7 LPM (1.5GPM) AERATOR OUTLET, OPEN GRID DRAIN, CHROME PLATED CAST BRASS ONE PIECE TOP, 17 GA. (1.5mm) TUBULAR 32mm (1-1/4") TAILPIECE, FAUCET SUPPLIES, CHROME PLATED POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 10mm (3/8") I.P.S. INLET x 76mm (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEONS AND FLEXIBLE COPPER RISER, P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 32mm (1-1/4") SIZE, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND, ACCEPTABLE MANUFACTURERS ARE KOHLER AND AMERICAN STANDARD FOR SINK AND DELTA FAUCET AND KOHLER FOR SINK FAUCET.
SHO-1	Shower Barrier-Free Design	PENAL-WARE BARRIER-FREE, WALL SHOWER, SHOWER PANEL SHOULD BE FABRICATED FROM 14 GAGE, TYPE 304 STAINLESS STEEL AND SHALL HAVE A SATIN FINISH. VALVE BODY AND SHOWER HEAD SHALL BE SOLID BRASS WITH ALL EXPOSED TRIMS TO BE CHROME PLATED BRASS, FIXTURE SHALL BE FURNISHED WITH A FIXED VANDAL-RESISTANT SHOWER HEAD WITH ON/OFF PUSHBUTTON, VACUUM BREAKER 1.5 GPM (5.6 LPM) FLOW CONTROL, MOUNTING BRACKET, AIR-CONTROL SINGLE TEMP METERING VALVE, ASSE 1016 COMPLIANT TEMPERATURE/PRESSURE BALANCING MIXING VALVE, SHOWER DRAIN, DURA-COATED CAST IRON BODY, CLAMP COLLAR, ADJUSTABLE PVC HEAD AND SECURED STAINLESS STEEL STRAINER C/W LOCITITE LIQUID THREAD LOCKER, SERIES 262 MIL-SPEC S-46163A TYPE II GRADE 0 (NO EQUIVALENT), PROVIDE P-TRAP. ACCEPTABLE MANUFACTURERS ARE ACORN AND WILLOUGHBY.
EW-1	Emergency Eye/face wash	GUARDIAN G1814BC WALL MOUNT BARRIER-FREE EYEWASH, STAINLESS STEEL BOWL AND COVER, WHEN ACTIVATED, COVER IS RAISED AUTOMATICALLY WHEN FLAG HANDLE IS ACTIVATED, 1-1/2" O.D. DRAIN CONNECTION, 1/2" NPT FEMALE INLET, ACCEPTABLE MANUFACTURERS ARE HAWSCO AND BRADLEY.
FD-1	Floor Drain	ZURN Z355 DURA-COATED CAST IRON BODY WITH SIDE OUTLET, INTEGRAL TRAP, ANCHOR FLANGE AND ADJUSTABLE NICKEL BRONZE SLOTTED STRAINER, SECURED WITH SPANNER TYPE VANDAL-PROOF SCREWS, PROVIDE LOCITITE LIQUID THREAD LOCKERS, SERIES 262 MIL-SPEC S-46163A TYPE II GRADE 0 (NO EQUIVALENT), ACCEPTABLE MANUFACTURERS ARE ZURN, JAY R. SMITH AND WADE.
HR-1	Hose Reel in Cabinet	FIXED HOSE REEL FOR WALL MOUNTING, MADE OF GALVANIZED STEEL, OIL RESISTANT, ANTISTATIC RUBBER HOSE WITH WORKING PRESSURE OF 20 BAR, INTEGRATED AUTOMATIC STOP VALVE, QUICK-DISCONNECT COUPLING, WATER SUPPLY THROUGH THE CENTER OF THE REEL, JET/SPRAY/SHUT-OFF NOZLE, SWINGING ARM WITH INTERNAL WATERWAYS, CENTRE PARTS MADE OF BRASS, ADJUSTABLE BRAKE, FURNISHED WITH 25MMØ AND 30 METERS LONG HOSE, ACCEPTABLE MANUFACTURERS ARE NOHA, KIDDIE, STOPFIRE.

ROOF TOP UNIT SCHEDULE (TRANE)			
TAG		RTU-1	
MODEL		YSC048G3EHA	
SERVICE		CELL AREA	
SUPPLY FAN			
AIR FLOW RATE (L/s / CFM)		755	1,600
E.S.P. (Pa / in.WC)		199	0.80
ECONOMIZER			
TYPE		SINGLE ENTHALPY, BAROMETRIC	
HEATING			
TYPE		GAS	
CAPACITY INPUT (KW / MBH)		35	120
CAPACITY OUTPUT (KW / MBH)		29	100
CAPACITY CONTROL METHOD		1 STAGE	
COOLING			
NOMINAL CAPACITY INPUT (KW / MBH)		14	48
CAPACITY CONTROL		SINGLE STAGE	
REFRIGERANT		R-410A	
VENTILATION DATA			
MIN. O.A. FLOW RATE (L/s / CFM)		NA	NA
PHYSICAL DATA			
WEIGHT (kg / lbs)		223	492
LENGTH (mm / in.)		1778	70.00
WIDTH (mm / in.)		13	44.00
HEIGHT (mm / in.)		12	41.00
NOTES:			
1. UNIT SHALL BE MANUFACTURED BY TRANE AND SHALL BE CAPABLE OF BEING INSTALLED ON THE EXISTING ROOF CURB WITH OUT MODIFICATION OR THE NEED FOR ROOF CURB ADAPTERS.			
2. OUTSIDE AIR TO BE PROVIDED BY SF-1. MINIMUM DAMPER POSITION TO BE 0% UNLESS IN FREE COOLING MODE.			

FAN SCHEDULE															
TAG	ROOM SERVED	MANUFACTURER	TYPE	MODEL	RPM	AIR FLOW RATE				E.S.P.		MOTOR		SONES	ACCESSORIES
						MAXIMUM (L/S) (CFM)		MINIMUM (L/S) (CFM)		(Pa)	(in.WC)	(W)	(HP)		
SF-1	CELL AREA	GREENHECK	I	SQ-100-VG	943	513	1,087	312	661	62	0.25	186	1/4	3.9	VG
EF-1	135	GREENHECK	R	CUE-070-VG	1,725	67	142	48	102	37	0.15	75	1/10	1.2	VG
EF-2	137	GREENHECK	R	CUE-065-VG	1,725	59	125	42	89	37	0.15	75	1/10	2.4	VG
EF-3	139	GREENHECK	R	CUE-065-VG	1,725	59	125	42	89	37	0.15	75	1/10	2.4	VG
EF-4	140	GREENHECK	R	CUE-065-VG	1,725	59	125	42	89	37	0.15	75	1/10	2.4	VG
EF-5	142	GREENHECK	R	CUE-065-VG	1,725	59	125	42	89	37	0.15	75	1/10	2.4	VG
EF-6	144	GREENHECK	R	CUE-070-VG	1,725	67	142	48	102	37	0.15	75	1/10	1.2	VG
EF-7	146	GREENHECK	R	CUE-070-VG	1,725	67	142	48	102	37	0.15	75	1/10	1.2	VG
EF-8	132/133	GREENHECK	R	CUBE-099	725	76	161	-	-	50	0.20	186	1/4	3.6	
EF-9	125A/125B	GREENHECK	R	CUE-070-VG	1,725	84	178	60	127	37	0.15	75	1/10	1.2	VG
FAN TYPES:			C CENTRIFUGAL TA TUBE AXIAL	R ROOF W WALL	I IN-LINE MF MIXED FLOW					CE CEILING EXHAUST P PROPELLER	CU CENTRIFUGAL UP BLAST CF CEILING FAN				
ABBREVIATIONS:			BG BELT GUARD	MT	MANUAL RESET TIMER				SD SCROLL DRAIN						
			AS ADJUSTABLE SHEAVES	NSW	NON-SPARKING WHEEL				FC FACTORY CURB						
			SC SOLID STATE SPEED CONTROL	SH	SPRING HANGERS				BS BIRDSCREEN						
			IG INLET GRILLE	VP	VIBRATION PADS				MC MOUNTING COLLAR						
			BD BACKDRAFT DAMPER	SM	SPRING MOUNT				WH WEATHERPROOF HOUSING						
			F FILTER	WC	WALL CAP				RC ROOF CAP						
			E EPOXY COATING	DS	DISCONNECT SWITCH				AD ACCESS DOOR						
			IH INLET HOOD	MDW	MOTION DETECTOR, WALL MTD.				GN GOOSENECK						
			PC PRESSURE CONTROLLER	VG	VARI-GREEN ECM VARIABLE SPEED MOTOR										
NOTES:															
			1. EF-1 TO 7 SHALL OPERATE ON TWO SPEEDS VIA 7 SEPARATE SWITCHES LOCATED AT THE GUARDS DESK. SF-1 SHALL MODULATE TO MAINTAIN SPACE STATIC PRESSURE AT NEGATIVE PRESSURE (0.05 IN WC) AS COMPARED TO CORRIDOR, ADJUSTABLE. PROVIDE A SYSTEM OF PACKAGED CONTROLS TO PERFORM STATIC PRESSURE CONTROLS.												
			2. EF-8 TO OPERATE VIA ON/OFF SWITCH AT GUARDS DESK.												
			3. EF-1 TO 8 AND SF-1 SHALL BE PERMITTED TO OPERATE WHILE RTU-1 FAN IS RUNNING ONLY. RTU FAN TO RUN CONTINUOUSLY. IF RTU FAN IS TURNED, INTERLOCK EF-1 TO 8 AND SF-1 SUCH THAT THEY ARE DISABLED.												
			4. EF-09 TO OPERATE VIA PACKAGED PRESSURE CONTROL SYSTEM FROM FAN MANUFACTURER. MODULATE TO MAINTAIN SPACE STATIC PRESSURE AT NEGATIVE PRESSURE (0.05 IN WC) AS COMPARED TO ADJACENT ROOM, ADJUSTABLE.												

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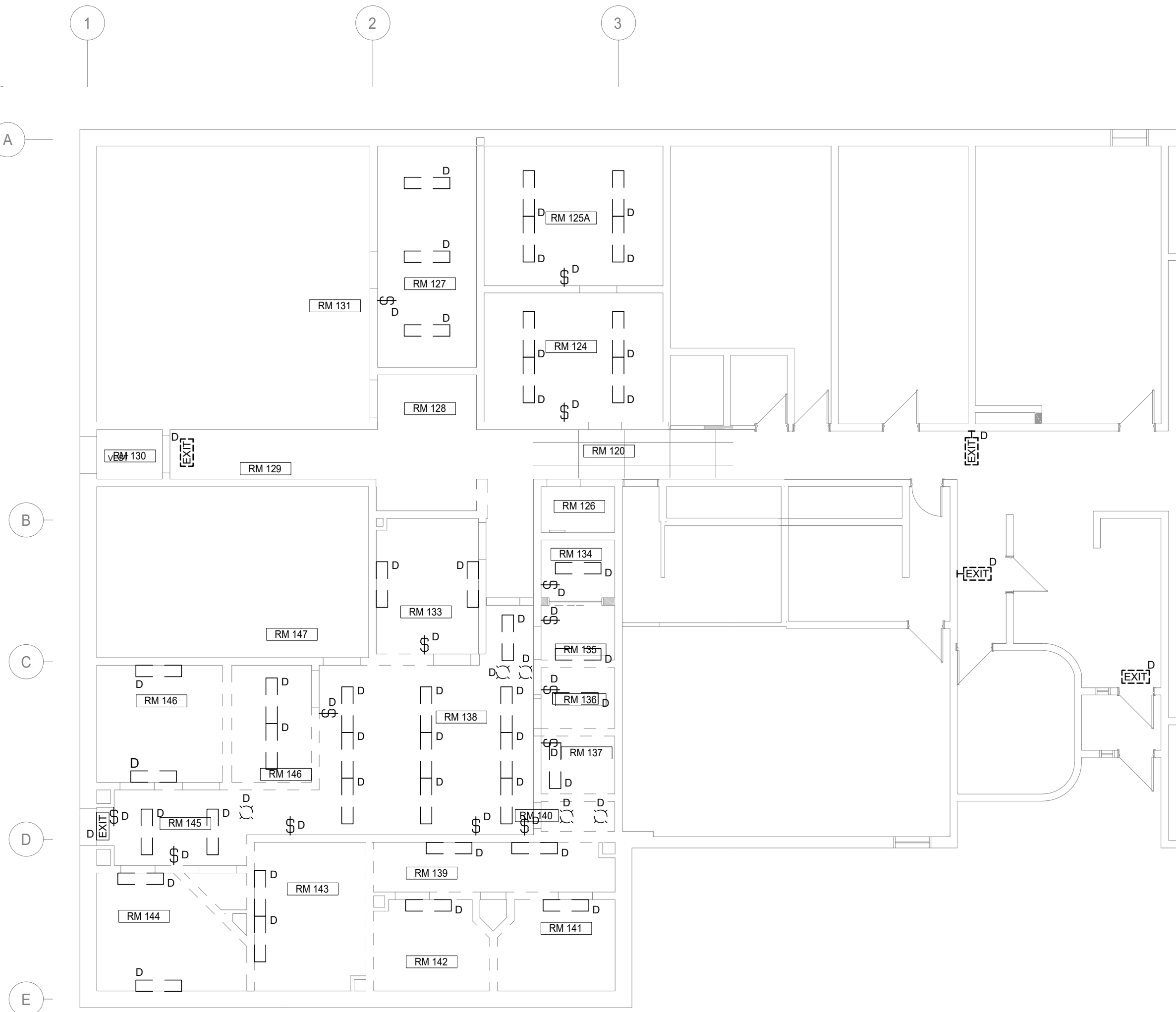
ISSUES / REVISIONS
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CLIENT
FEDERAL BUILDING

PROJECT
INTERIOR RENOVATIONS

CONTENTS
EXISTING/DEMOLITION AND NEW
MAIN FLOOR LIGHTING PLANS AND
SYMBOL SCHEDULE

PROJECT NUMBER
17180
DATE
08/20/2018
SHEET NUMBER
E1



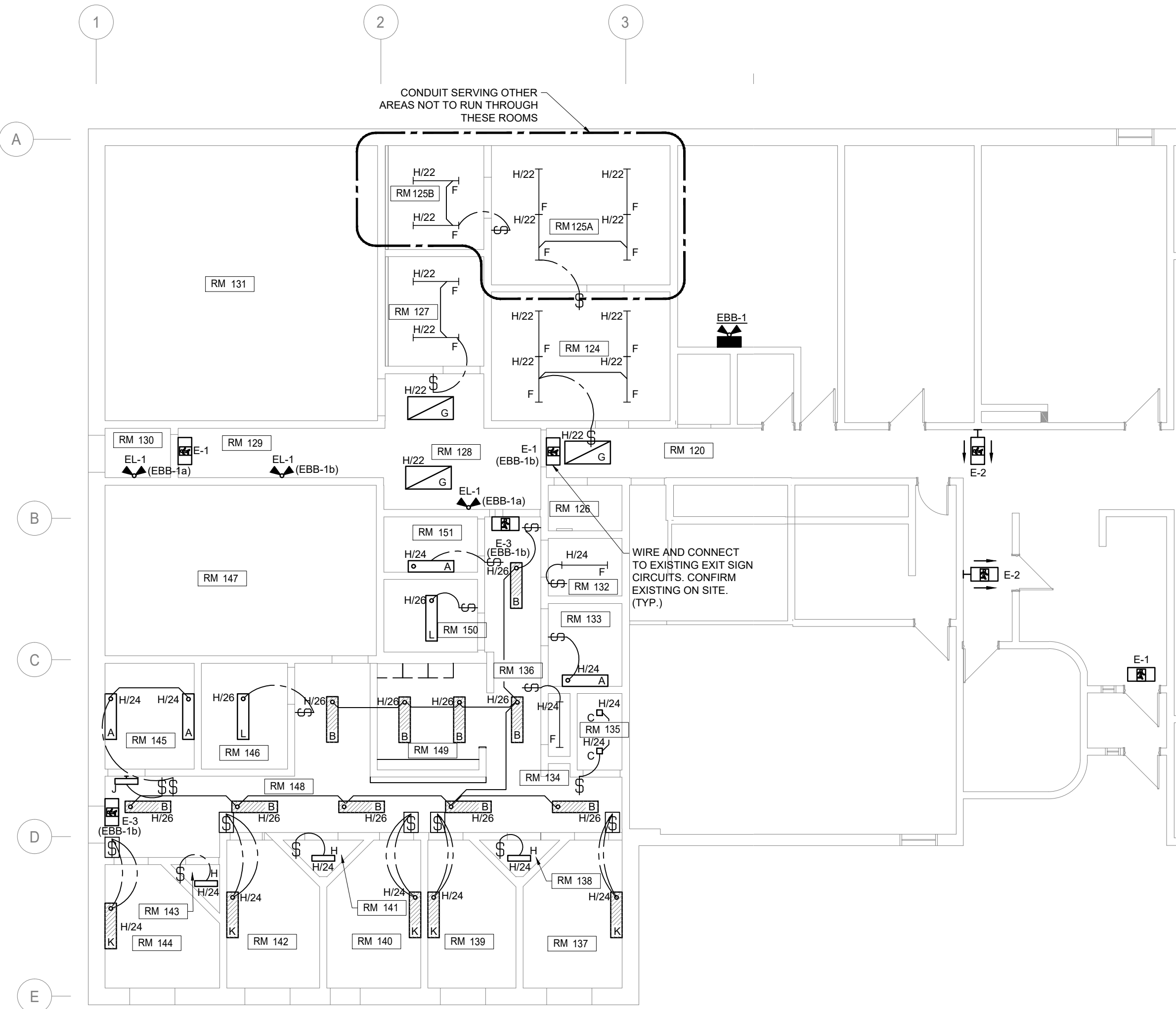
1 EXISTING/DEMOLITION MAIN FLOOR LIGHTING PLAN
E1 1:100

NOTES:

1. ALL WIRING AND CONDUIT TO BE DEMOLISHED BACK TO SOURCE PANEL.

DEMOLITION NOTES:

1. MAINTAIN THE INTEGRITY OF ALL EXISTING SYSTEMS REQUIRED TO REMAIN OPERATIONAL. IDENTIFY ALL CIRCUIT BREAKERS, WIRING, JUNCTION BOXES AND DEVICES PRIOR TO PROCEEDING WITH WORK. CONTACT DEPARTMENTAL REPRESENTATIVE IF UNSURE BEFORE SHUTDOWNS, DEMOLITION, OR RELOCATION OF ANY DEVICES.
2. ALL ITEMS SHOWN DASHED WITH AN 'E' ARE EXISTING AND ARE TO REMAIN. ITEMS SHOWN DASHED WITH A 'D' ARE TO BE DISCONNECTED AND DEMOLISHED/REMOVED AND TRANSPORTED TO DESIGNATED SITE TO BE CONFIRMED BY DEPARTMENTAL REPRESENTATIVE. INCLUDE ALL COSTS IN BASE BID. REMOVE AND HAVE ALL ASSOCIATED WIRE AND CONDUIT REMOVED BACK TO PANEL SOURCE.
3. EXTEND, RE-ROUTE, RE-WIRE AND RE-CONNECT ALL CIRCUITS ON EXISTING DEVICES BEING RELOCATED.
4. WIRE AND CONDUIT SERVING DEVICES REQUIRED TO REMAIN IN USE SHALL BE RE-ROUTED AND DIVERTED AS REQUIRED TO MAINTAIN OPERATION. EXTEND, RE-ROUTE, RE-WIRE AND RE-CONNECT AS REQUIRED. CONFIRM EXISTING ON SITE.
5. NOT ALL EXISTING DEVICES AND ELECTRICAL EQUIPMENT ARE BEING SHOWN ON ELECTRICAL DRAWINGS. REMOVE AND RE-INSTALL ALL EXISTING AND NECESSARY ELECTRICAL DEVICES SHOWN OR NOT LOCATED ON INDICATED WALLS OR PORTIONS OF THE BUILDING BEING DEMOLISHED OR MODIFIED. MAINTAIN INTEGRITY OF ALL EXISTING ELECTRICAL SYSTEMS IN AREAS NOT INCLUDED IN THIS PROJECT AND IN PARTS OF THE BUILDING THAT ARE NOT SUBJECTED TO ANY DEMOLITION WORK.
6. REPORT ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND SITE OBSERVATION TO DEPARTMENTAL REPRESENTATIVE.

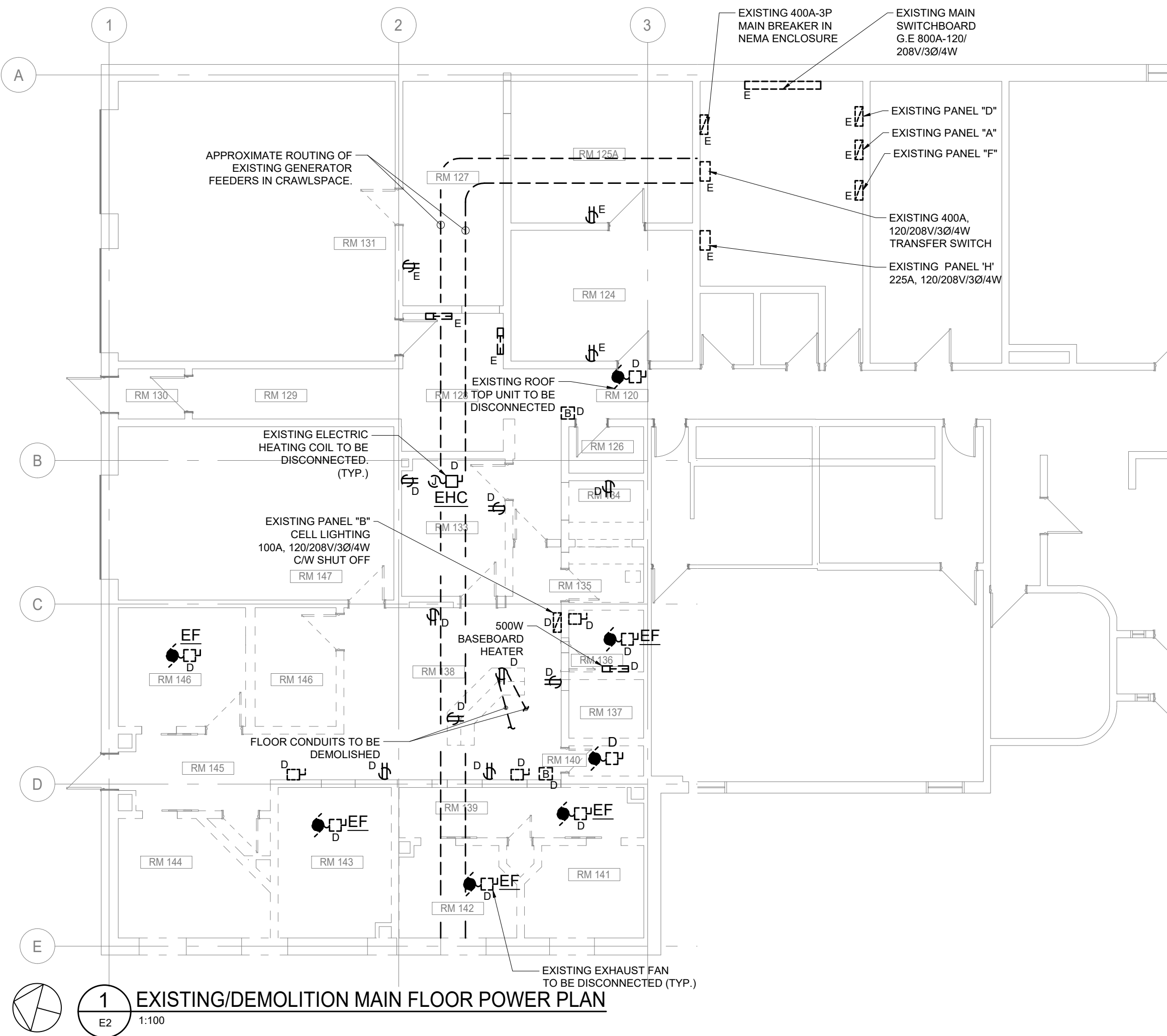


2 NEW MAIN FLOOR LIGHTING PLAN
E1 1:100

NOTES:

1. SURFACE MOUNT CONDUIT IN ROOMS 135, 137, 139, 140, 142, 144, 145, 146 AND 151 IS NOT PERMITTED. ALL CONDUITS ARE TO BE CONCEALED IN THESE ROOMS IN THE AREA BETWEEN LUMINAIRES AND ADJACENT SURFACES MUST BE GROUTED USING A POLYMER FORTIFIED HIGH YIELD GROUT.
2. ALL LIGHT SWITCHES IN ROOMS 136 AND 148 TO BE C/W SAFETY RINGS.

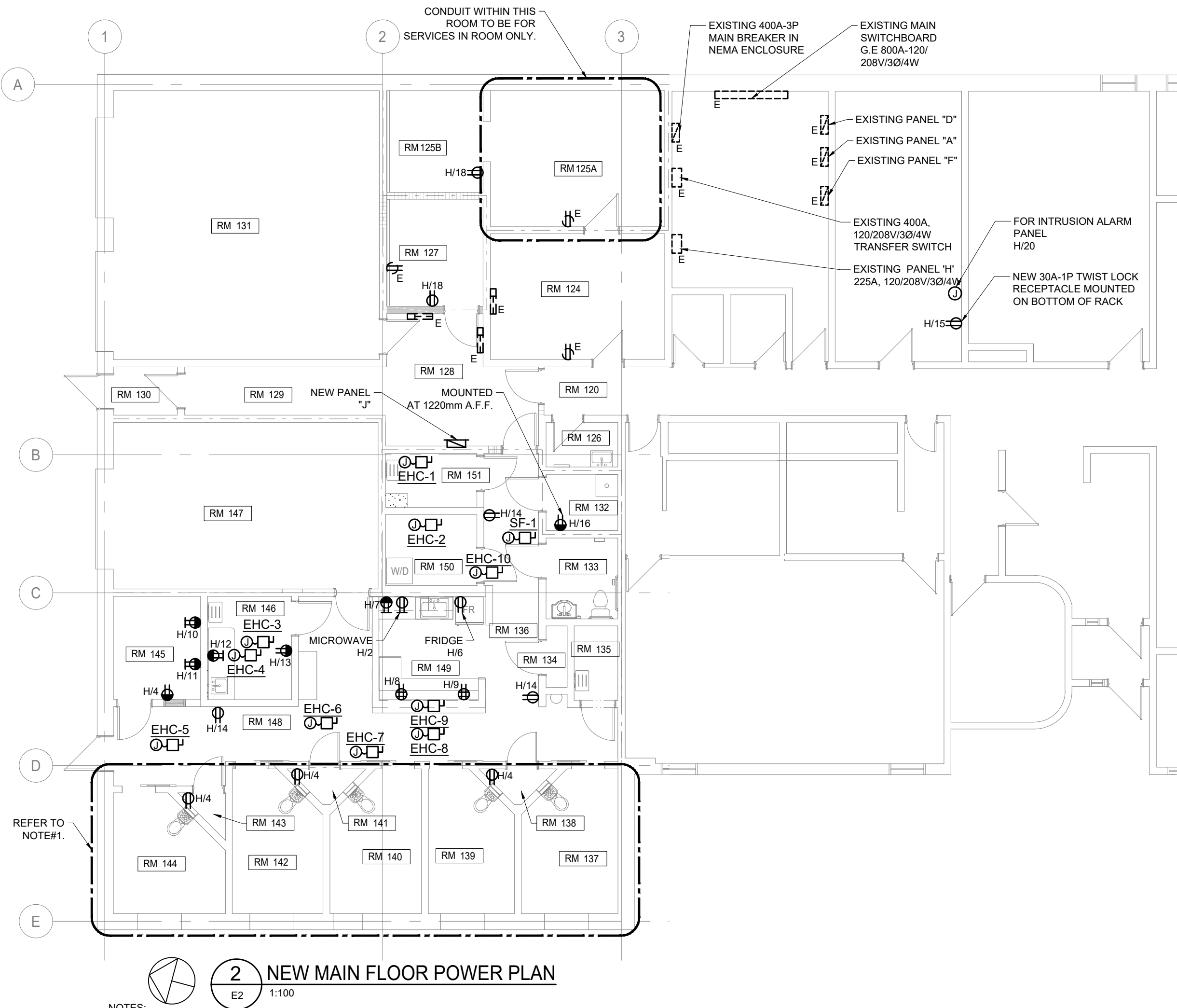
SYMBOL SCHEDULE			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
---	LINETYPE DENOTES EXISTING	S _{cd}	FIRE ALARM STROBE # BESIDES STROBE SYMBOL INDICATES CANDELA VALUE
D	EXISTING TO BE DEMOLISHED	D S _{cd}	FIRE ALARM STROBE/HORN # BESIDES STROBE SYMBOL INDICATES CANDELA VALUE
E	EXISTING TO REMAIN	S _C	FIRE ALARM STROBE/HORN CEILING MOUNTED
□	DOWNLIGHT	CO	CARBON MONOXIDE DETECTOR
XXX A	SURFACE MOUNT LUMINAIRE XXX DENOTES PANEL/CIRCUIT NUMBER A DENOTES LUMINAIRE TYPE	B	BUZZER
XXX A	EMERGENCY LIGHT WITH INTEGRAL BATTERY PACK XXX DENOTES PANEL/CIRCUIT NUMBER A DENOTES LUMINAIRE TYPE	F	FIRE ALARM MANUAL PULL STATION
XXX A	STRIP LIGHT XXX DENOTES PANEL/CIRCUIT NUMBER A DENOTES LUMINAIRE TYPE	S	FIRE ALARM SMOKE DETECTOR
XXX A	LAY-IN FLAT PANEL XXX DENOTES PANEL/CIRCUIT NUMBER A DENOTES LUMINAIRE TYPE	MP	MOISTURE PROOF HEAT DETECTOR
XXX A	CEILING MOUNT LUMINAIRE XXX DENOTES PANEL/CIRCUIT NUMBER A DENOTES LUMINAIRE TYPE	●	FIRE ALARM BELL
XXX A	CEILING MOUNT VAPOUR TIGHT XXX DENOTES PANEL/CIRCUIT NUMBER A DENOTES LUMINAIRE TYPE	□	DISCONNECT SWITCH
§	ONE GANG SWITCH	EOL	END OF LINE DEVICE
§	3 POSITION SWITCH	RECB	RECESSED PANELBOARD
⚡	DUPLEX RECEPTACLE	EXIT	EXIT SIGNAGE
⚡	QUAD RECEPTACLE	EXIT E-1	GREEN PICTOGRAM EGRESS SIGNAGE E-1 DENOTES SIGNAGE TYPE
⚡	GROUND FAULT TYPE RECEPTACLE	EXIT E-1	DOUBLE SIDED EGRESS SIGNAGE E-1 DENOTES SIGNAGE TYPE
⚡	GROUND FAULT TYPE RECEPTACLE MOUNTED ABOVE COUNTER HEIGHT	⚡	EMERGENCY LIGHTING BATTERY BANK C/W DUAL REMOTE HEADS
⚡	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER HEIGHT	⚡	EMERGENCY LIGHTING DUAL REMOTE HEADS
⚡	MOTOR CONNECTION C/W DISCONNECT	⚡	JUNCTION BOX
⚡	MECHANICAL EQUIPMENT CONNECTION C/W DISCONNECT	A.F.F.	ABOVE FINISHED FLOOR
		▬	BASEBOARD HEATER



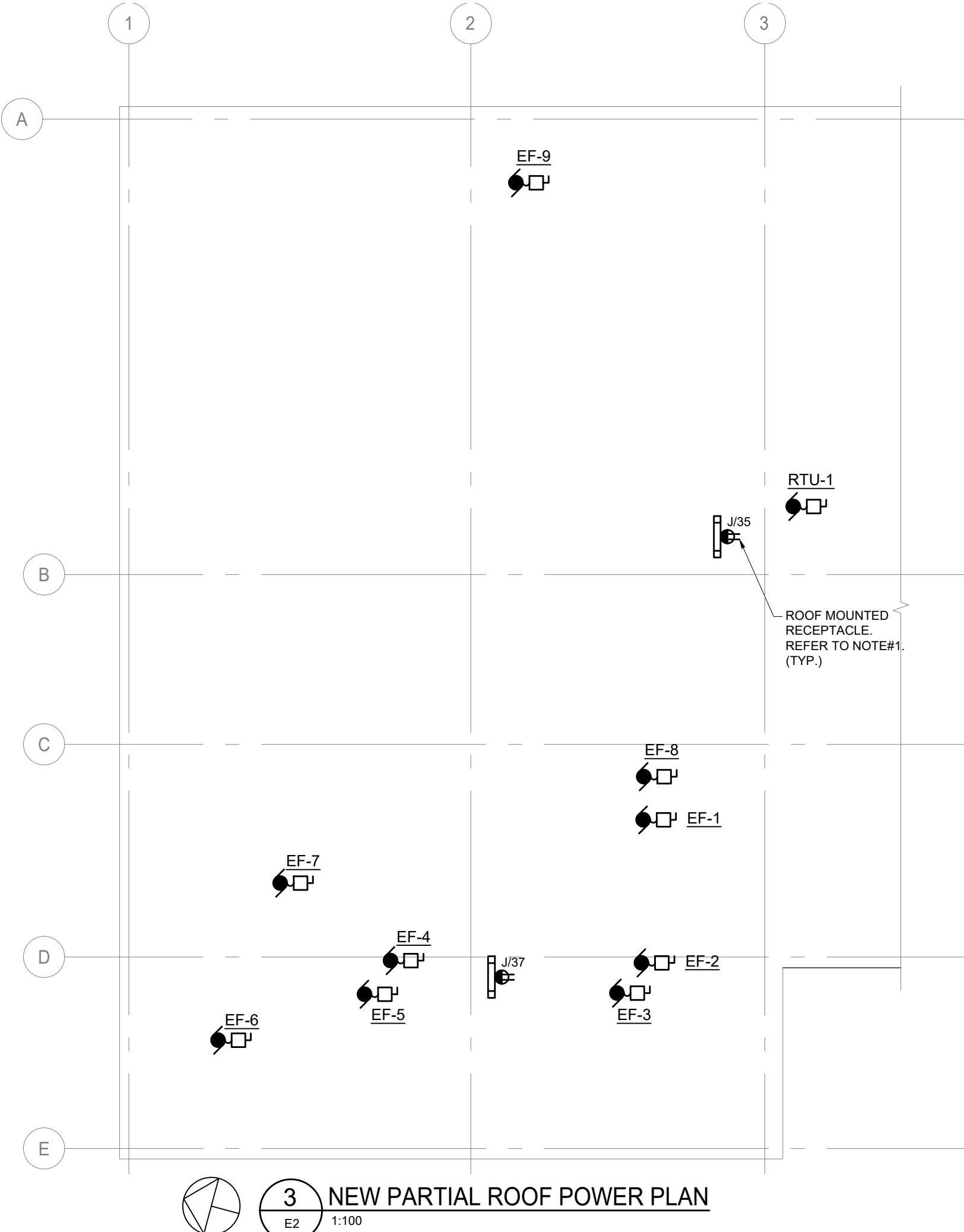
NOTES:
1. ALL WIRING AND CONDUIT TO BE DEMOLISHED BACK TO SOURCE PANEL.

DEMOLITION NOTES:

- MAINTAIN THE INTEGRITY OF ALL EXISTING SYSTEMS REQUIRED TO REMAIN OPERATIONAL. IDENTIFY ALL CIRCUIT BREAKERS, WIRING, JUNCTION BOXES AND DEVICES PRIOR TO PROCEEDING WITH WORK. CONTACT DEPARTMENTAL REPRESENTATIVE IF UNSURE BEFORE SHUTDOWNS, DEMOLITION, OR RELOCATION OF ANY DEVICES.
- ALL ITEMS SHOWN DASHED WITH AN 'E' ARE EXISTING AND ARE TO REMAIN. ITEMS SHOWN DASHED WITH A 'D' ARE TO BE DISCONNECTED AND DEMOLISHED/REMOVED AND TRANSPORTED TO DESIGNATED SITE TO BE CONFIRMED BY DEPARTMENTAL REPRESENTATIVE. INCLUDE ALL COSTS IN BASE BID. REMOVE AND HAVE ALL ASSOCIATED WIRE AND CONDUIT REMOVED BACK TO PANEL SOURCE.
- EXTEND, RE-ROUTE, RE-WIRE AND RE-CONNECT ALL CIRCUITS ON EXISTING DEVICES BEING RELOCATED.
- WIRE AND CONDUIT SERVING DEVICES REQUIRED TO REMAIN IN USE SHALL BE RE-ROUTED AND DIVERTED AS REQUIRED TO MAINTAIN OPERATION. EXTEND, RE-ROUTE, RE-WIRE AND RE-CONNECT AS REQUIRED. CONFIRM EXISTING ON SITE.
- NOT ALL EXISTING DEVICES AND ELECTRICAL EQUIPMENT ARE BEING SHOWN ON ELECTRICAL DRAWINGS. REMOVE AND RE-INSTALL ALL EXISTING AND NECESSARY ELECTRICAL DEVICES SHOWN OR NOT LOCATED ON INDICATED WALLS OR PORTIONS OF THE BUILDING BEING DEMOLISHED OR MODIFIED. MAINTAIN INTEGRITY OF ALL EXISTING ELECTRICAL SYSTEMS IN AREAS NOT INCLUDED IN THIS PROJECT AND IN PARTS OF THE BUILDING THAT ARE NOT SUBJECTED TO ANY DEMOLITION WORK.
- REPORT ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND SITE OBSERVATION TO DEPARTMENTAL REPRESENTATIVE.



NOTES:
1. SURFACE MOUNT CONDUIT IN THESE ROOMS IS NOT PERMITTED. ALL CONDUITS ARE TO BE CONCEALED



NOTES:
1. PROVIDE CSA APPROVED 5-20R, T-SLOT, ROOF MOUNTED RECEPTACLE PROTECTED WITH A GFCI CLASS A TYPE CIRCUIT BREAKER WIRED TO DEDICATED CIRCUIT. RECEPTACLE TO BE MOUNTED AT A MINIMUM OF 750mm ABOVE FINISHED ROOF AND A MAXIMUM OF 7.5M FROM ASSOCIATED MECHANICAL EQUIPMENT. RECEPTACLE TO BE C/W DIE CAST ALUMINUM, WHILE IN USE, WET LISTED COVER. RECEPTACLE TO BE MOUNTED TO U-CHANNEL SUPPORTS.

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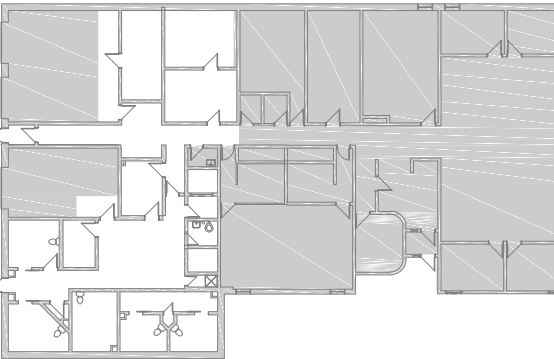
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ISSUES / REVISIONS
1. 2018/03/19 50% CONSTRUCTION DRAWINGS
2. 2018/07/05 95% CONSTRUCTION DRAWINGS
3. 2018/08/20 100% CONSTRUCTION DRAWINGS

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FEDERAL BUILDING

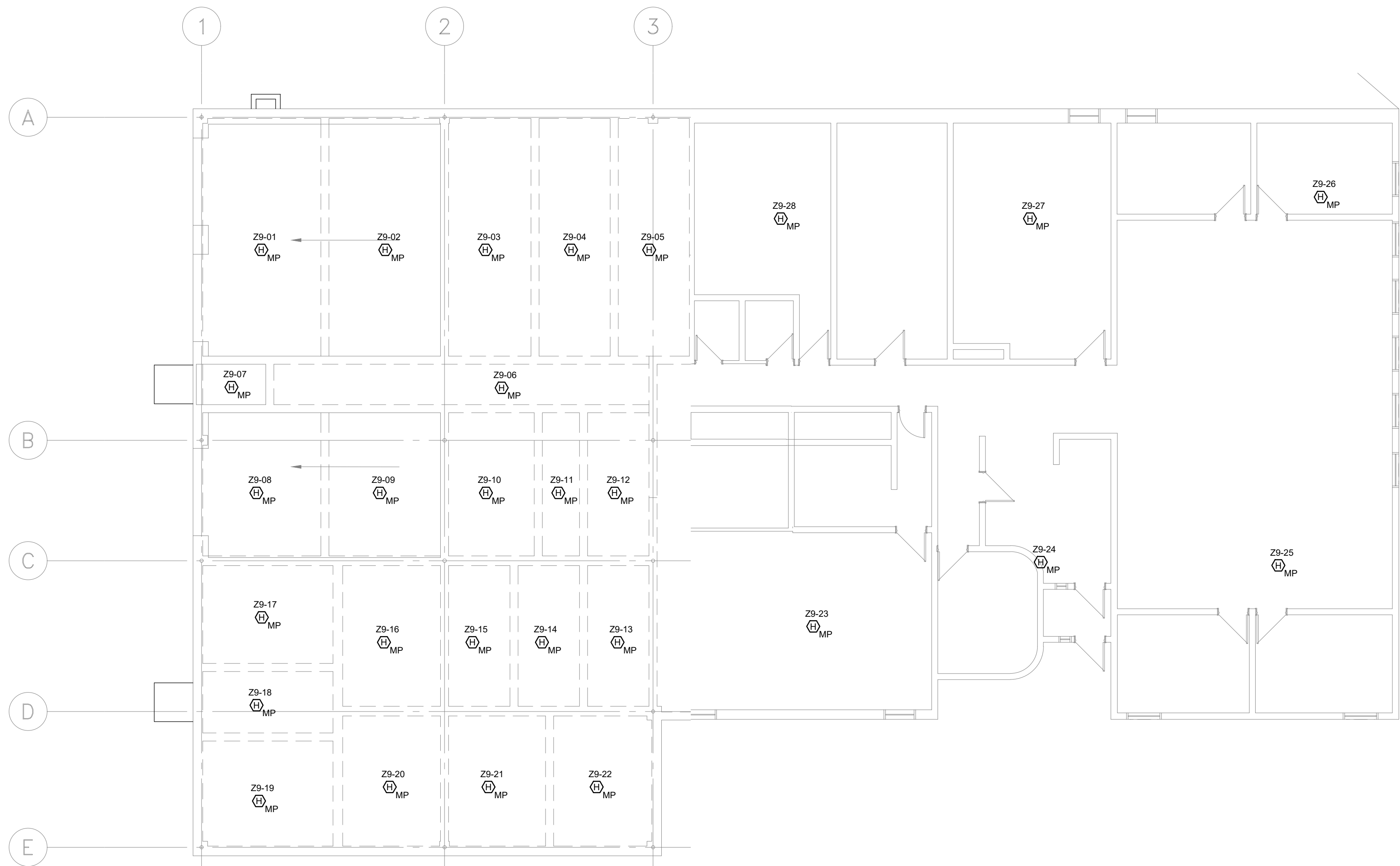
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INTERIOR RENOVATIONS

CONTENTS
EXISTING/DEMOLITION AND NEW MAIN
FLOOR AND PARTIAL ROOF POWER
PLANS

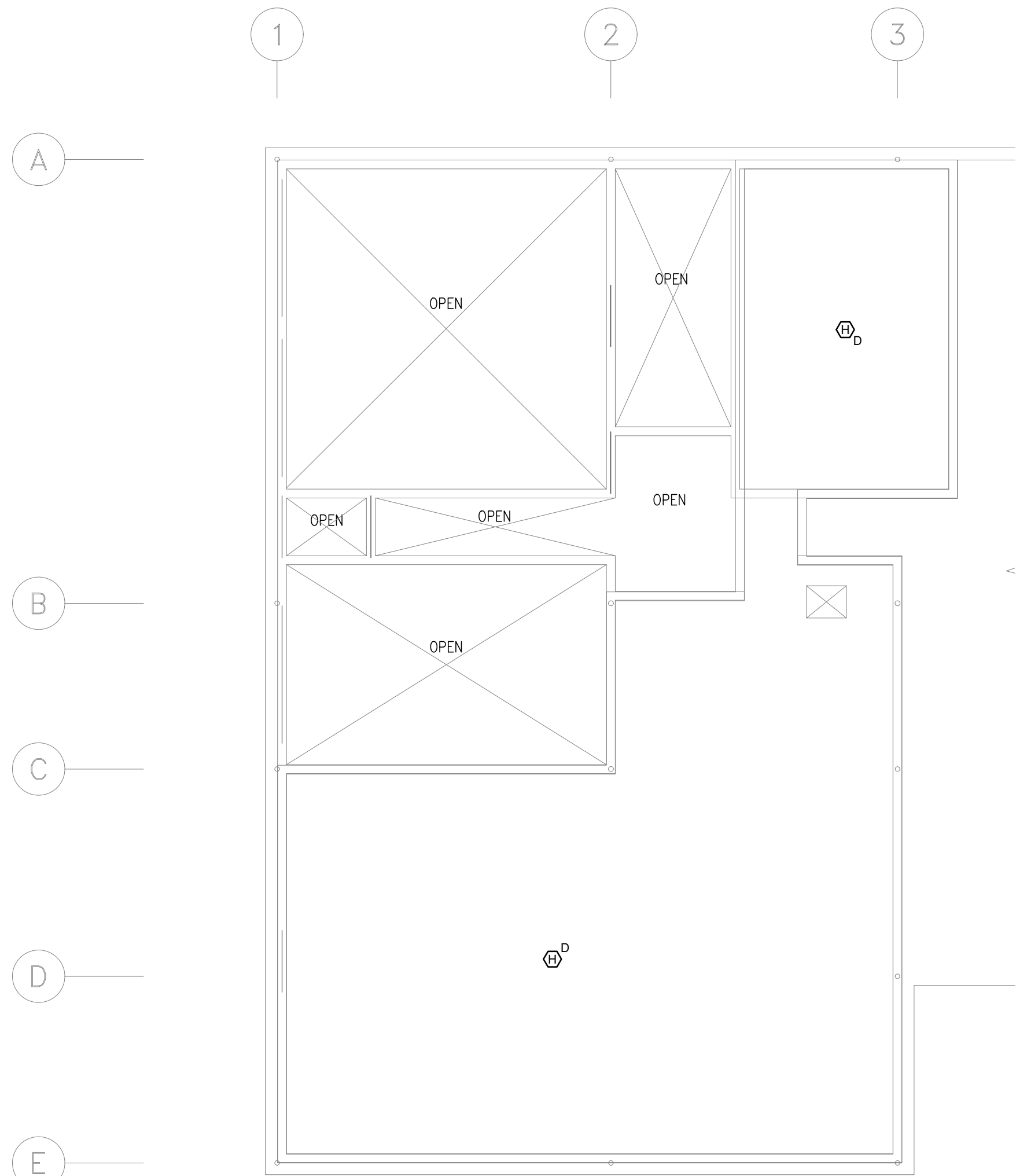
PROJECT NUMBER
17180

DATE
08/20/2018

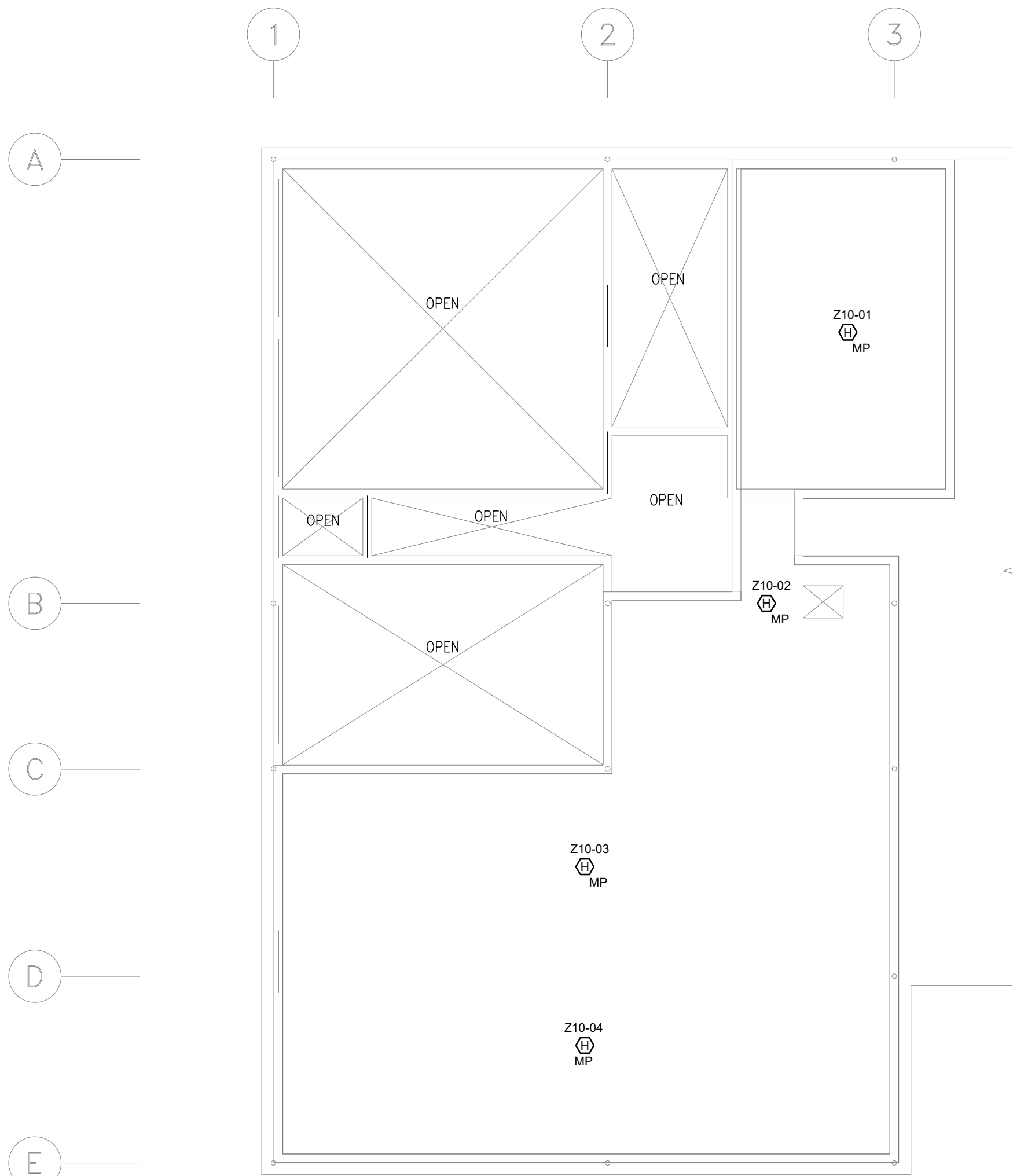
SHEET NUMBER
E2



1 CRAWLSPACE FIRE ALARM SYSTEMS PLAN
E3 1:100



2 EXISTING/DEMOLITION ATTIC SPACE FIRE ALARM SYSTEMS PLAN
E3 1:100



3 NEW ATTIC SPACE FIRE ALARM SYSTEMS PLAN
E3 1:100

DEMOLITION NOTES:

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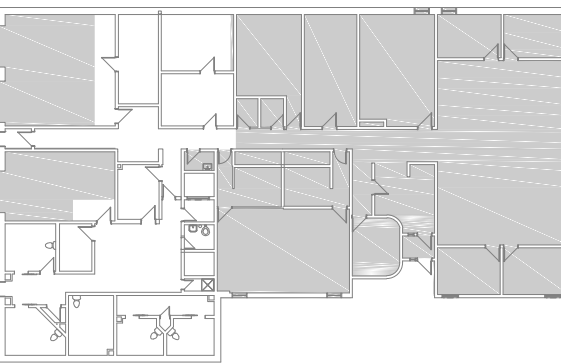
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PROJECT
INTERIOR RENOVATIONS

CONTENTS
CRAWLSPACE NEW FIRE ALARM SYSTEMS
PLAN AND EXISTING/DEMOLITION AND NEW
ATTIC FIRE ALARM SYSTEMS PLAN

PROJECT NUMBER
17180

DATE
08/20/2018

SHEET NUMBER
E3

DEMOLITION NOTES:

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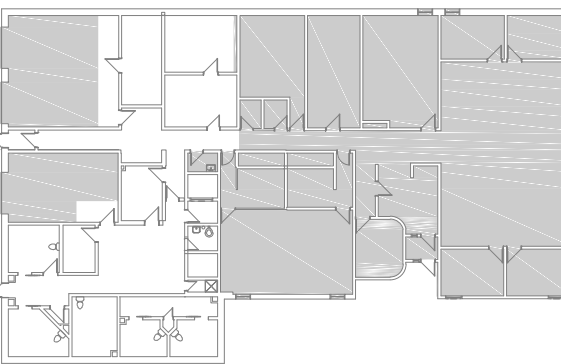
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PROJECT
INTERIOR RENOVATIONS

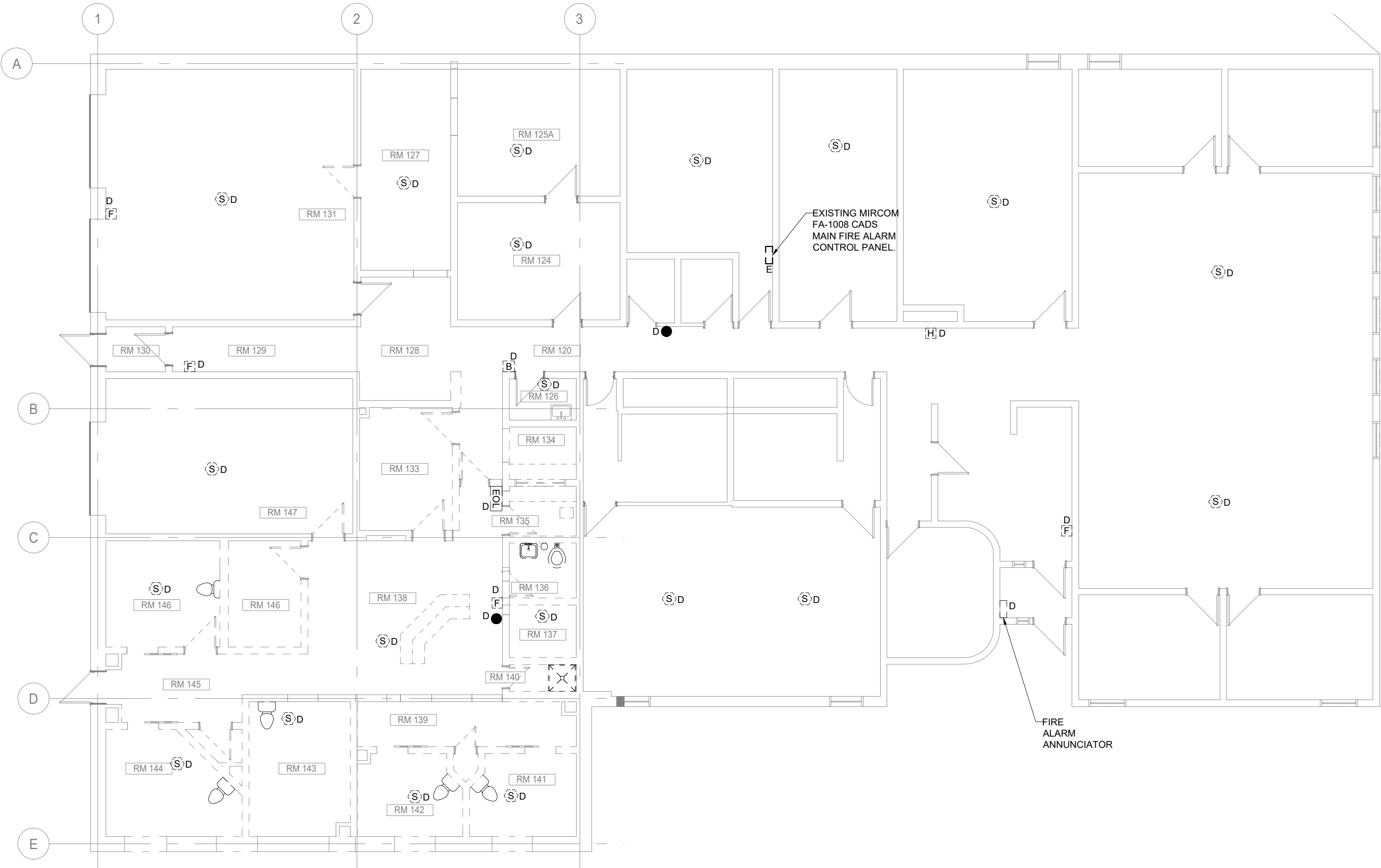
CONTENTS
EXISTING/DEMOLITION AND NEW MAIN
FLOOR FIRE ALARM SYSTEMS PLANS

PROJECT NUMBER
17180

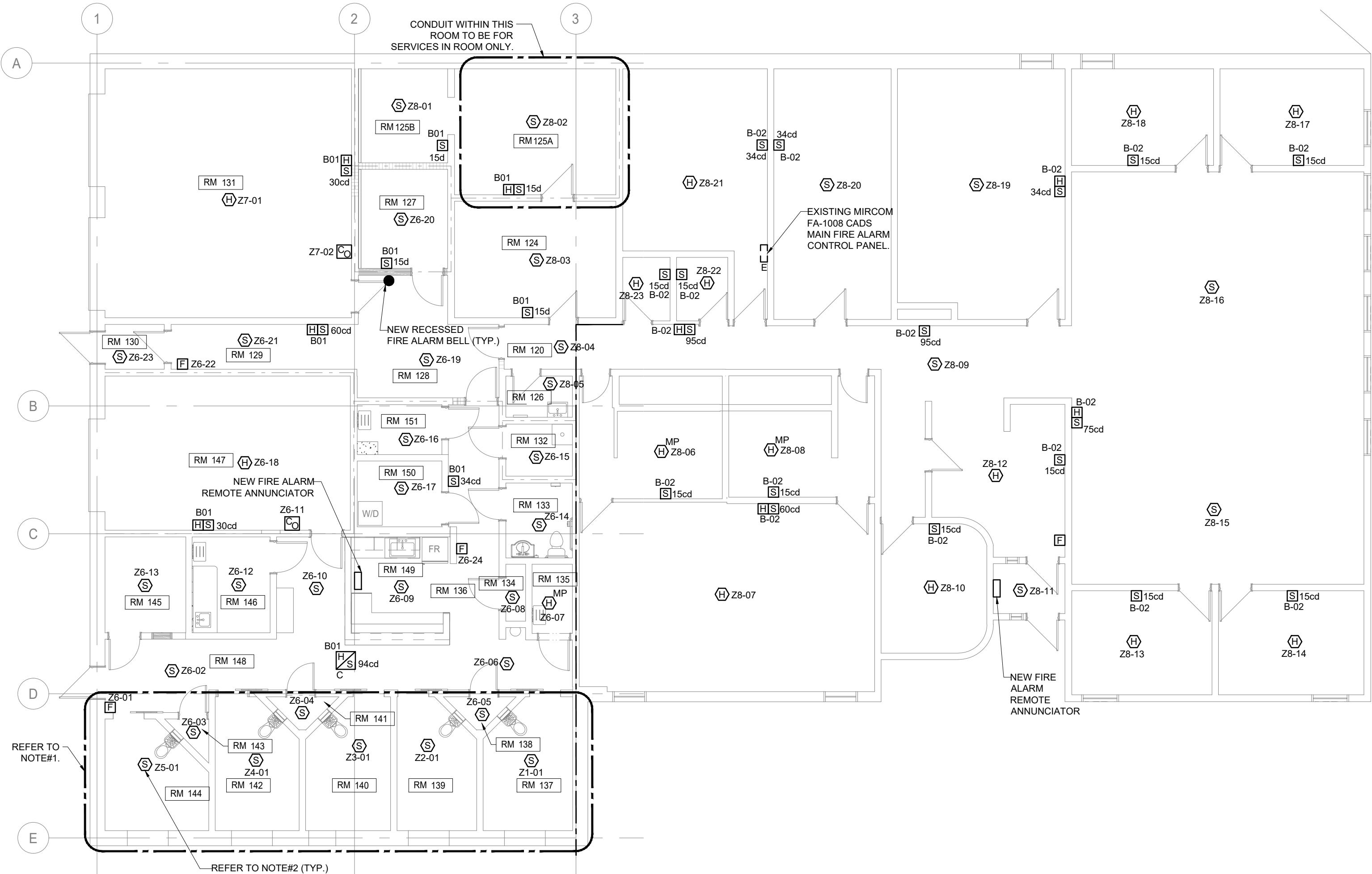
DATE
08/20/2018

SHEET NUMBER

E4



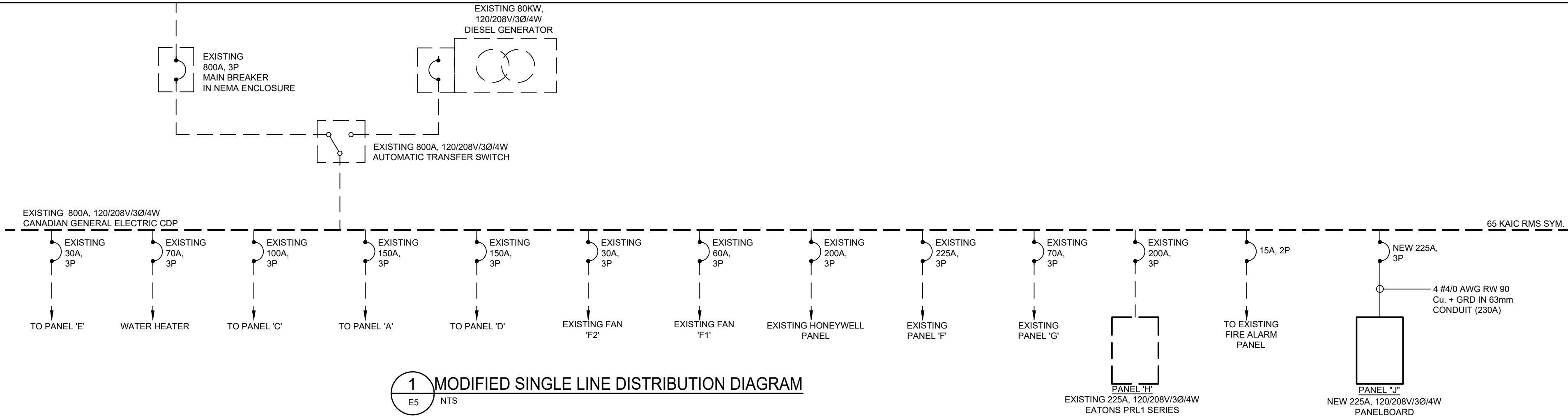
1 EXISTING/DEMOLITION MAIN FLOOR FIRE ALARM SYSTEMS PLAN
E4 1:100



2 NEW MAIN FLOOR FIRE ALARM SYSTEMS PLAN
E4 1:100

NOTES:

1. SURFACE MOUNT CONDUIT IN THESE ROOMS IS NOT PERMITTED. ALL CONDUITS ARE TO BE CONCEALED.
2. THE SPACE BETWEEN THE BACK OF THE MOUNTING PLATE AND THE CEILING SURFACE IS TO BE FILLED WITH POLYMER FORTIFIED HIGH FIELD GROUT.
3. SMOKE DETECTORS IN ROOM 137, 139, 140, 142, 144, 145 AND 151 ARE TO BE C/W PROTECTIVE CAGES.



LUMINAIRE SCHEDULE							
TYPE	MANUFACTURER	CATALOGUE NUMBER	LAMPS	WATTS	LUMINAIRE STYLE	VOLTAGE	COMMENTS
A	EATON'S FAILSAFE	FCC-X-4-LD4-2-LQ-120-80/86-EDC1	LED 4000K	52.2W	CONFINEMENT RATED CORNER MOUNTED	120V	
B	EATON'S FAILSAFE	FMS-X-12-4-LD4-2-HI-40-120-80/86-EDC-1-VRSD	LED 4000K	90.1W	CONFINEMENT RATED SURFACE MOUNT	120V	
C	KENALL	MR13FL-PP-MW-20L35K-120	LED 3500K	20.0W	CEILING MOUNT	120V	
	RAB LIGHTING	VANI	A-19 LED (1500 LUMENS MIN.)	14.0W			
E-1	LUMACELL	LA-1-W-U	LED	2.5W	SINGLE SIDED EGRESS SIGN	120V	
	EMERGI-LITE	EA-1-W-U		2.5W			
	READY-LITE	RA-1-W-U		2.5W			
E-2	LUMACELL	LA-2-W-U	LED	2.5W	DOUBLE SIDED EGRESS SIGN	120V	
	EMERGI-LITE	EA-2-W-U		2.5W			
	READY-LITE	RA-2-W-U		2.5W			
E-3	LUMACELL	LN-1-W-U	LED	2.5W	SINGLE SIDED EGRESS SIGN (VANDAL)	120V	
	EMERGI-LITE	EN-1-W-U		2.5W			
	READY-LITE	RN-1-W-U		2.5W			
F	EATON'S METALUX	4SNLED-LDS-46SL-LN-UNV-L840K-SLTD-1-U	LED 4000K	34.6W	STRIP LIGHT	120V	
	LITHONIA	ZL1D-L48-5000LM-FST-MVOLT-40K-80CRI-WH		41W			
	PHILIPS	FSS-4-55L-840-120-DIM		45W			
G	EATON'S METALUX	24FP4740C	LED 4000K	40.4W	LAY-IN FLAT PANEL	120V	
	PHILIPS DAY-BRITE	2FXP-48L-840-4-DS-120-DIM		47W			
	AIMLITE	P14LR-4LA1-2/40K		60W			
H	EATON'S METALUX	2SNLED-LDS-26SL-LN-UNV-L840-CD-U	LED 4000K	20.1W	STRIP LIGHT	120V	
	LITHONIA	ZL1D-L24-SMR-2500LM-FST-120-40K-80CRI-WH		22.0W			
	PHILIPS	FSS-2-30L-840-120-DIM		26W			
J	LUMACELL	LMCE-LU00-VRSTP1-"ROOM IN USE"	LED	2.5W	SPECIAL WORDING SIGN "ROOM IN USE"	120V	
	EMERGI-LITE	EX10-W-U00-VRTP1-"ROOM IN USE"		2.5W			
	READY-LITE	NEXTN-LU00-VRTP1-"ROOM IN USE"		2.5W			
K	EATON'S FAILSAFE	FCC-X-4-LD4-2-LQ-120-80/86-EDC1-EL10W-LNL	LED 4000K	52.2W	CONFINEMENT RATED CORNER MOUNTED	120V	PROVIDE A MINIMUM OF FIVE SECURITY SCREW DRIVERS FIT FOR LUMINAIRES FASTENERS
L	EATON'S FAILSAFE	FMS-X-12-4-LD4-2-HI-40-120-80/86-EDC-1-VRSD	LED 4000K	90.1W	CONFINEMENT RATED SURFACE MOUNT	120V	
NOTES: 1. ALL LUMINAIRES, DRIVERS, LAMPS ETC. TO BE CSA APPROVED. 2. ALL DRIVER CUTSHEETS MUST BE INCLUDED WITH EACH LUMINAIRE SHOP DRAWING. 3. PROVIDE ALL REQUIRED MOUNTING KITS/HARDWARE FOR ALL CEILING/WALL TYPES. 4. ELECTRICAL CONTRACTOR TO SUBMIT ENTIRE LIGHTING INSTALLATION FOR MANITOBA HYDRO POWER SMART REBATE PROGRAM ON BEHALF OF OWNER. ALL REBATES TO BE MADE PAYABLE TO OWNER. 5. ALL LUMINAIRES TO BE STAMPED WITH MANUFACTURER AND MODEL NUMBER ON FACEPLATE OF THE LUMINAIRE.							

EMERGENCY LIGHTING BATTERY BANK SCHEDULE						
TYPE	MANUFACTURER	CATALOGUE NUMBER	WATTAGE	CIRCUIT NUMBER	LOCATION	LAMPS
EBB-1	LUMACELL	RG12S-200-2-LD9-AT-V-A	200W	H/22	ELECTRICAL ROOM	2x5W LED MR16
	EMERGH-LITE	12ESL-200-U-A-V-2-LI				
	READY-LITE	LDX12-200-AD-2-LD9-A-V				
NOTES: 1. ALL WIRING TO BE IN EMT CONDUIT 21mm CONDUIT C/W MINIMUM #12 AWG Cu WIRING. CONFIRM WIRE SIZES WITH DISTANCES PER MANUFACTURER'S RECOMMENDATIONS. 2. ADJUST LIGHTING HEADS TO PROPERLY ILLUMINATE EGRESS ROUTE.						

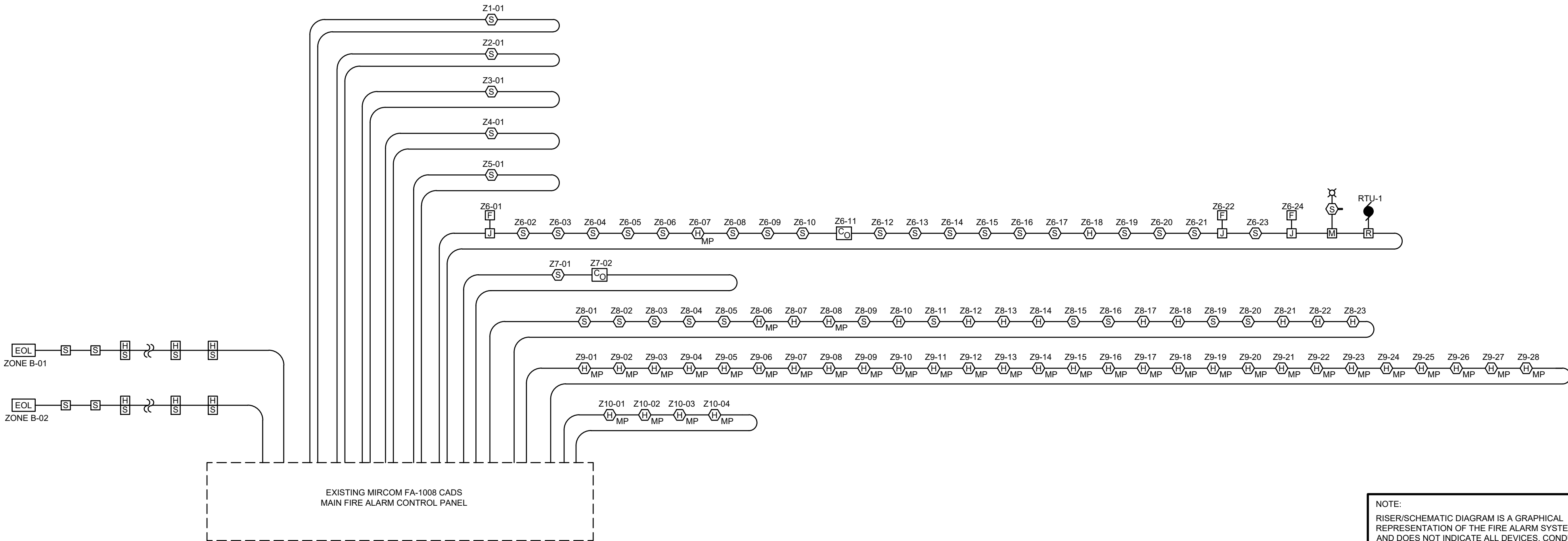
EMERGENCY LIGHTING SCHEDULE			
TYPE	MANUFACTURER	CATALOGUE NUMBER	LAMPS
EL-1	LUMACELL	MQM-2-LD9	2x5W LED MR16
	EMERGI-LITE	EF9-D-M-L1	
	READY-LITE	RM2-LD9	

MECHANICAL EQUIPMENT SCHEDULE														
EQUIPMENT			ELECTRICAL CHARACTERISTICS			PACKAGED UNIT	CONTROLS				F.A. SHUT DOWN	CIRCUITRY INFORMATION		
ITEM	DESCRIPTION	LOCATION	HP/KW	AMPS	VOLTS/Ø		TYPE	SUPPLIED BY	INSTALLED BY	WIRED BY		PANEL-CCT #	O.C.P.	WIRE
EHC-1	ELECTRIC HEATING COIL	ROOM 151	2.0KW	9.60	208V/1Ø		T-STAT	MECH	MECH	ELEC.		J/1, 3	15A, 2P	2 #12 AWG RW 90 Cu. + GRD
EHC-2	ELECTRIC HEATING COIL	ROOM 150	2.6KW	12.50	208V/1Ø		T-STAT	MECH	MECH	ELEC.		J/2, 4	20A, 2P	2 #12 AWG RW 90 Cu. + GRD
EHC-3	ELECTRIC HEATING COIL	ROOM 146	4.30KW	20.7	208V/1Ø		T-STAT	MECH	MECH	ELEC.		J/5, 7	30A, 2P	2 #10 AWG RW 90 Cu. + GRD
EHC-4	ELECTRIC HEATING COIL	ROOM 146	3.40KW	16.3	208V/1Ø		T-STAT	MECH	MECH	ELEC.		J/6, 8	30A, 2P	2 #10 AWG RW 90 Cu. + GRD
EHC-5	ELECTRIC HEATING COIL	ROOM 148	2.4KW	11.5	208V/1Ø		T-STAT	MECH	MECH	ELEC.		J/9, 11	15A, 2P	2 #12 AWG RW 90 Cu. + GRD
EHC-6	ELECTRIC HEATING COIL	ROOM 148	2.4KW	11.5	208V/1Ø		T-STAT	MECH	MECH	ELEC.		J/10, 12	15A, 2P	2 #12 AWG RW 90 Cu. + GRD
EHC-7	ELECTRIC HEATING COIL	ROOM 148	2.4KW	11.5	208V/1Ø		T-STAT	MECH	MECH	ELEC.		J/13, 15	15A, 2P	2 #12 AWG RW 90 Cu. + GRD
EHC-8	ELECTRIC HEATING COIL	ROOM 148	2.4KW	11.5	208V/1Ø		T-STAT	MECH	MECH	ELEC.		J/14, 16	15A, 2P	2 #12 AWG RW 90 Cu. + GRD
EHC-9	ELECTRIC HEATING COIL	ROOM 148	2.4KW	11.5	208V/1Ø		T-STAT	MECH	MECH	ELEC.		J/17, 19	15A, 2P	2 #12 AWG RW 90 Cu. + GRD
EHC-10	ELECTRIC HEATING COIL	ROOM 136	30.0KW	83.3KW	208V/3Ø		T-STAT	MECH	MECH	ELEC.		J/27, 29, 31	110A, 3P	3 #2 AWG RW 90 Cu. + GRD
RTU-1	ROOF TOP UNIT	ROOF	-	25.4MCA	208V/3Ø	X		MECH.	MECH.	MECH.	X	J/21, 23, 25	35A-3P	3 #8 AWG RW 90 Cu. + GRD
SF-1	SUPPLY FAN	ROOM 136	1/4HP	5.8FLA	120V/1Ø		MS	MECH.	MECH.	ELEC.		J/33	15A-1P	2 #12 AWG RW 90 Cu. + GRD
EF-1	EXHAUST FAN	ROOF	FRAC	-	120V/1Ø		MS	MECH.	MECH.	ELEC.		J/18	15A-1P	2 #12 AWG RW 90 Cu. + GRD
EF-2	EXHAUST FAN	ROOF	FRAC	-	120V/1Ø		MS	MECH.	MECH.	ELEC.		J/20	15A-1P	2 #12 AWG RW 90 Cu. + GRD
EF-3	EXHAUST FAN	ROOF	FRAC	-	120V/1Ø		MS	MECH.	MECH.	ELEC.		J/22	15A-1P	2 #12 AWG RW 90 Cu. + GRD
EF-4	EXHAUST FAN	ROOF	FRAC	-	120V/1Ø		MS	MECH.	MECH.	ELEC.		J/24	15A-1P	2 #12 AWG RW 90 Cu. + GRD
EF-5	EXHAUST FAN	ROOF	FRAC	-	120V/1Ø		MS	MECH.	MECH.	ELEC.		J/26	15A-1P	2 #12 AWG RW 90 Cu. + GRD
EF-6	EXHAUST FAN	ROOF	FRAC	-	120V/1Ø		MS	MECH.	MECH.	ELEC.		J/28	15A-1P	2 #12 AWG RW 90 Cu. + GRD
EF-7	EXHAUST FAN	ROOF	FRAC	-	120V/1Ø		MS	MECH.	MECH.	ELEC.		J/30	15A-1P	2 #12 AWG RW 90 Cu. + GRD
EF-8	EXHAUST FAN	ROOF	1/4HP	5.8FLA	120V/1Ø		MS	MECH.	MECH.	ELEC.		J/32	15A-1P	2 #12 AWG RW 90 Cu. + GRD
EF-9	EXHAUST FAN	ROOF	FRAC	-	120V/1Ø		MS	MECH.	MECH.	ELEC.		J/34	15A-1P	2 #12 AWG RW 90 Cu. + GRD
NOTES: 1. ELECTRICAL CONTRACTOR TO CONFIRM FINAL LOCATION OF ALL EQUIPMENT WITH MECHANICAL DRAWINGS PRIOR TO ROUGHING IN OF CONDUIT. CONFIRM FINAL EQUIPMENT RATINGS WITH MECHANICAL PRIOR TO ROUGHING-IN OF CONDUIT. WIRING AND CIRCUIT BREAKERS. SIZE OVERLOADS ACCORDINGLY. CONFIRM FINAL RATINGS WITH EQUIPMENT NAMEPLATES. INFORM ENGINEER OF ANY DISCREPANCIES AND OR DEVIATIONS PRIOR TO ROUGHING IN OF EQUIPMENT. MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROLS/LOW VOLTAGE WIRING. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE VOLTAGE POWER. 2. ALL LOW VOLTAGE CONTROL WIRING TO BE BY MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS. ALL CONDUIT AND 120V CIRCUITING REQUIRED FOR MECHANICAL AND ELECTRICAL CONTROLS TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR. 3. ALL STARTERS TO BE SUPPLIED, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE INDICATED. 4. PROVIDE DISCONNECTS FOR ALL EQUIPMENT AS REQUIRED. 5. ELECTRICAL CONTRACTOR TO CONFIRM EQUIPMENT RATINGS PRIOR TO ROUGH-IN.														
										FIRE ALARM SHUTDOWN FIRE ALARM SHUTDOWN C/W HOA AT FIRE ALARM PANEL DUCT DETECTOR AND SHUTDOWN ON SEPARATE ZONE.				
										CONTROLS T-STAT. = THERMOSTAT H-STAT. = HUMIDISTAT EMCS = ENERGY MANAGEMENT CONTROL SYSTEM TC = TIME CLOCK MT = MANUAL TIMER MS = MANUAL SWITCH VSC = VARIABLE SPEED CONTROL APS = AIR PROVING SWITCH COD = CARBON MONOXIDE DETECTOR FA = FIRE ALARM INTERLOCK AUTO = INTEGRAL AUTO SWITCH ACTIVATION FLOAT = FLOAT SWITCH				

NEW PANELBOARD DIRECTORY "J"									
ITEM	LOAD (kW)	OC	C	C	ITEM	LOAD (kW)	OC		
EHC-1	1.00	15A, 2P	1	2	EHC-2	1.30	20A, 2P		
	1.00		3	4		1.30			
EHC-3	2.15	30A, 2P	5	6	EHC-4	1.70	30A, 2P		
	2.15		7	8		1.70			
EHC-5	1.20	15A, 2P	9	10	EHC-6	1.20	15A, 2P		
	1.20		11	12		1.20			
EHC-7	1.20	15A, 2P	13	14	EHC-8	1.20	15A, 2P		
	1.20		15	16		1.20			
EHC-9	1.20	15A, 2P	17	18	EF-1	0.10	15A		
	1.20		19	20		0.10	15A		
RTU-1	3.05		21	22	EF-3	0.10	15A		
	3.05	35A, 2P	23	24		0.10	15A		
EHC-10	10.0		25	26	EF-5	0.10	15A		
	10.0		27	28		0.10	15A		
SF-1	10.0	110A, 3P	29	30	EF-7	0.10	15A		
	10.0		31	32		0.10	15A		
ROOF MOUNT RECEPTACLE	0.7	15A	33	34	EF-9	0.10	15A		
	1.00	20A	35	36					
ROOF MOUNT RECEPTACLE	1.00	20A	37	38	SPACE				
		15A	39	40					
SPARE		15A	41	42	SPACE				
SPARE		15A	43	44	SPACE				
SPARE		15A	45	46	SPACE				
SPARE		15A	47	48	SPACE				
SPARE		15A	49	50	SPACE				
SPARE		15A	51	52	SPACE				
SPACE			53	54	SPACE				
SPACE			55	56	SPACE				
SPACE			57	58	SPACE				
SPACE			59	60	SPACE				
SPACE			61	62	SPACE				
SPACE			63	64	SPACE				
SPACE			65	66	SPACE				
NOTES: MOUNTING: SURFACE RATING: 225A, 120/208V/3Ø/4W									

EXISTING PANELBOARD DIRECTORY "H"									
ITEM	LOAD (kW)	OC	C	C	ITEM	LOAD (kW)	OC		
EXISTING			20A	1	2	MICROWAVE	1.20	15A	
EXISTING			15A	3	4	REC'S RM 138, 141, 143, 145	0.80	15A	
EXISTING			15A	5	6	FRIDGE	1.00	15A	
COUNTER RECEPTACLE	0.50	20A	7	8	DESK REC	1.00	15A		
DESK RECEPTACLE	1.00	15A	9	10	REC'S ROOM 145	0.50	15A		
REC'S RM 145	0.50	15A	11	12	REC'S ROOM 146	0.50	15A		
REC'S RM 146	0.50	15A	13	14	REC'S ROOM 136, 146 (x3)	0.60	15A		
RACK MOUNT RECEPTACLE	20.00	30A	15	16	ROOM 132 RECEPTACLE	0.20	15A		
			17	18	RECEPTACLE ROOM 125B, 127	0.40	15A		
			19	20	INTRUSION ALARM	1.00	15A		
			21	22	LIGHTING	0.72	15A		
			23	24	LIGHTING	1.20	15A		
			25	26	LIGHTING	0.99	15A		
			27	28					
			29	30					
			31	32					
			33	34					
			35	36					
			37	38					
			39	40					
			41	42					
			43	44					
			45	46					
			47	48					
			49	50					
			51	52					
			53	54					
			55	56					
			57	58					
			59	60					
NOTES: THIS PANEL CONTAINS 37x 15A-1P SPARE CIRCUIT BREAKERS. EXISTING CIRCUIT BREAKERS TO BE REUSED WHERE POSSIBLE. RELOCATE BREAKERS WHERE REQUIRED. ALL ADDITIONAL UNUSED BREAKERS TO BE TURNED OVER TO OWNER.					MOUNTING: RATING: 225A 120/208V/3Ø/4W CUTLER HAMMER TYPE PRL-1				

FIRE ALARM RISER DIAGRAM



NOTES:

- ELECTRICAL CONTRACTOR TO PROVIDE 10 LOOPS AS INDICATED:
1- ROOM 137 9- CRAWLSPACE
2- ROOM 139 10- ATTIC
3- ROOM 140 11- SPARE
4- ROOM 142 12- SPARE
5- ROOM 144 13- SPARE
6- 14- SPARE
7- ROOM B1 15- SPARE
8- OFFICE AREA 16- SPARE
- ALL WIRING FOR NOTIFICATION DEVICES TO BE WIRED IN CONDUIT WITH FAS105 CABLE IN CLASS A CONFIGURATION. PROVIDE SEPARATE CONDUIT SYSTEM FOR EACH LOOP.
- ALL FIRE ALARM WIRING TO BE FAS 105, RUN IN MINIMUM OF 21mm EMT.
- ELECTRICAL CONTRACTOR TO PROVIDE FAULT ISOLATION MODULES WHEN ENTERING AND LEAVING EACH FIRE ALARM ZONE PER NATIONAL BUILDING CODE OR A LESSER NUMBER WHERE RECOMMENDED BY THE MANUFACTURER. THIS DIAGRAM IS FOR SCHEMATIC PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADDITIONAL MODULES AS REQUIRED WHETHER SHOWN OR NOT IN ORDER TO ACCOMMODATE THE ACTUAL NUMBER OF DEVICES AND ROUTING OF WIRING. EACH MODULES TO BE CLEARLY LABELED WITH A RIVETED LAMACOID AND READILY ACCESSIBLE FOR INSPECTION. MODULES ARE NOT BE INSTALLED ABOVE SUSPENDED CEILINGS. AS-BUILT DRAWINGS TO REFLECT THE LOCATION OF EACH ISOLATION MODULE.
- THE OPERATION OF ANY MANUAL PULL STATION OR DETECTION TYPE DEVICE TO TRIP THE FIRE ALARM CONTROL PANEL CAUSING IT TO GO INTO ALARM. ALL FIRE ALARM SIGNALLING DEVICES TO SOUND CONTINUOUSLY UNTIL THE SYSTEM IS MANUALLY RESET AT THE CONTROL PANEL.
- ELECTRICAL CONTRACTOR TO INCLUDE ALL COSTS ASSOCIATED WITH SETTING-UP, TESTING AND THE VERIFICATION OF THE FIRE ALARM SYSTEM. THE MANUFACTURER WITH THE ASSISTANCE OF THE ELECTRICAL CONTRACTOR AND THE OWNER'S REPRESENTATIVE TO PERFORM A COMPLETE FIRE ALARM VERIFICATION AFTER THE INSTALLATION HAS BEEN COMPLETE. A CERTIFICATE OF VERIFICATION AND A COMPLETE REPORT SHALL BE SENT TO THE OWNER AND ENGINEER REPRESENTATIVE FOR REVIEW. THE ENTIRE FIRE ALARM SYSTEM AND INSTALLATION SHALL CARRY A ONE (1) YEAR WARRANTY FROM THE DATE OF SUBSTANTIAL COMPLETION.
- THE ENTIRE INSTALLATION TO BE THE FULL SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
- DIVISION 28 TO SUPPLY AND INSTALL SMOKE DUCT DETECTOR TO ROOF TOP UNIT SUPPLY DUCT, INSTALL IN STRAIGHT SECTION OF DUCT.
- DIVISION 28 TO WIRE AND CONNECT ROOF TOP UNIT TO FIRE ALARM PANEL FOR FAN SHUTDOWN.

NOTE:
RISER/SCHEMATIC DIAGRAM IS A GRAPHICAL REPRESENTATION OF THE FIRE ALARM SYSTEM AND DOES NOT INDICATE ALL DEVICES, CONDUIT, WIRING, ETC. REFER TO FIRE ALARM DRAWINGS FOR DEVICE LOCATIONS.

SYMBOL SCHEDULE:

- SMOKE DETECTOR
- HEAT DETECTOR
- MP MP DENOTES MOISTURE PROOF
- JUNCTION BOX
- MANUAL PULL STATION
- CARBON MONOXIDE DETECTOR
- HORN/STROBE
- STROBE
- EOL END OF LINE DEVICE
- RELAY MODULE (OUTPUT)
- DUCT SMOKE DETECTOR
- MONITOR MODULE
- DUCT DETECTOR REMOTE TEST STATION
- MOTOR

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ISSUES / REVISIONS

1.	2018/03/19	50% CONSTRUCTION DRAWINGS
2.	2018/07/05	99% CONSTRUCTION DRAWINGS
3.	2018/08/20	100% CONSTRUCTION DRAWING

DATE 08/20/2018

T1



1. ALL VIDEO SURVEILLANCE ACCESS CONTROL AND INTRUSION ALARM CONDUIT TO BE 21mm UNLESS OTHERWISE NOTED.
2. ALL VOICE/DATA CONDUIT SHALL BE 27mm UNLESS OTHERWISE NOTED.
3. SCAN CEILING, WALL AND FLOOR PRIOR TO CORING.
4. ALL VIDEO SURVEILLANCE CONDUIT SHALL BE CORED THROUGH CEILING DOWN TO VIDEO SURVEILLANCE CAMERA.
5. ALL CONDUIT TO BE INSTALLED IN CEILING SPACE THROUGH PULL BOX THEN DOWN TO MECHANICAL SHAFT AND CONTINUE IN CRAWL SPACE UP TO NEW RACK IN EXISTING GENERAL STORAGE ROOM.
6. ALL VOICE AND DATA CONDUIT TO BE CORED DOWN THROUGH CRAWLSPACE THEN TO A PULL BOX IN CRAWL SPACE AND CONTINUE WITH CONDUIT UP TO NEW RACK IN EXISTING GENERAL STORAGE ROOM.
7. ALL PENETRATIONS THROUGH FIRE RATED CEILING, WALLS AND FLOOR SHALL BE FIRE SEALED.
8. ALL CONDUIT SHALL BE CONCEALED, EXPOSED CONDUIT WILL BE ACCEPTED EXCEPT IN ROOM 147, ELEC.MECH.
9. CONTRACTOR WILL PROVIDE PATHWAYS, CAT6 CABLE, DEVICE BOX, PULL BOX AND GROUNDING AS INDICATED IN PLAN. CONTRACTOR TO PROVIDE EXTRA LENGTH OF CAT 6 CABLE AT BOTH ENDS TO ALLOW FOR FUTURE TERMINATION BY SSC.
10. ALL VOICE AND DATA CABLE TERMINATION, NETWORK SWITCH, TELEPHONE EQUIPMENT, PATCH PANEL, PATCHPLATE TO BE PROVIDED BY SHARED SERVICES CANADA (SSC) AND IS OUTSIDE THE SCOPE OF CONTRACTOR'S WORK.

1	100 x 100 x 65mm
2	150 x 150 x 75mm
3	200 x 200 x 100mm
4	300 x 300 x 100mm

VOICE/DATA

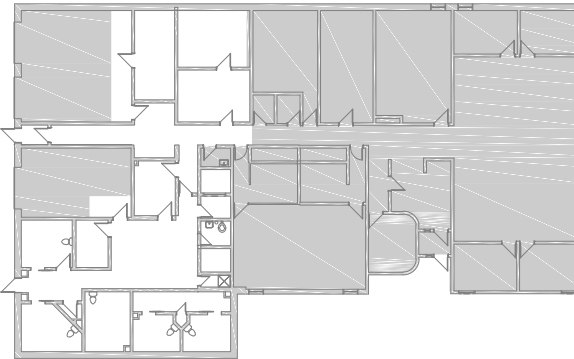
R	RJ-45 JACK RECEPTACLE FOR RADIO CONNECTION TO EXISTING MOTOROLA RADIO TRANSCIVER BIX BLOCK IN EXISTING ELECTRICAL ROOM.
M	MICROPHONE OUTLET
V	VIDEO SURVEILLANCE
I	INTRUSION ALARM
A	ACCESS CONTROL



1. DEPARTMENTAL REPRESENTATIVE WILL SUPPLY AND INSTALL INTRUSION ALARM AND ACCESS CONTROL EQUIPMENT AND DEVICES
2. ELECTRICAL CONTRACTOR WILL PROVIDE CONDUIT, DEVICE BOX, PULL BOX AND CABLES.

3 INTRUSION ALARM AND ACCESS CONTROL SINGLE LINE DIAGRAM





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ISSUES / REVISIONS
1. 2018/03/19 50% CONSTRUCTION DRAWINGS
2. 2018/07/05 99% CONSTRUCTION DRAWINGS
3. 2018/08/20 100% CONSTRUCTION DRAWINGS

CLIENT
FEDERAL BUILDING

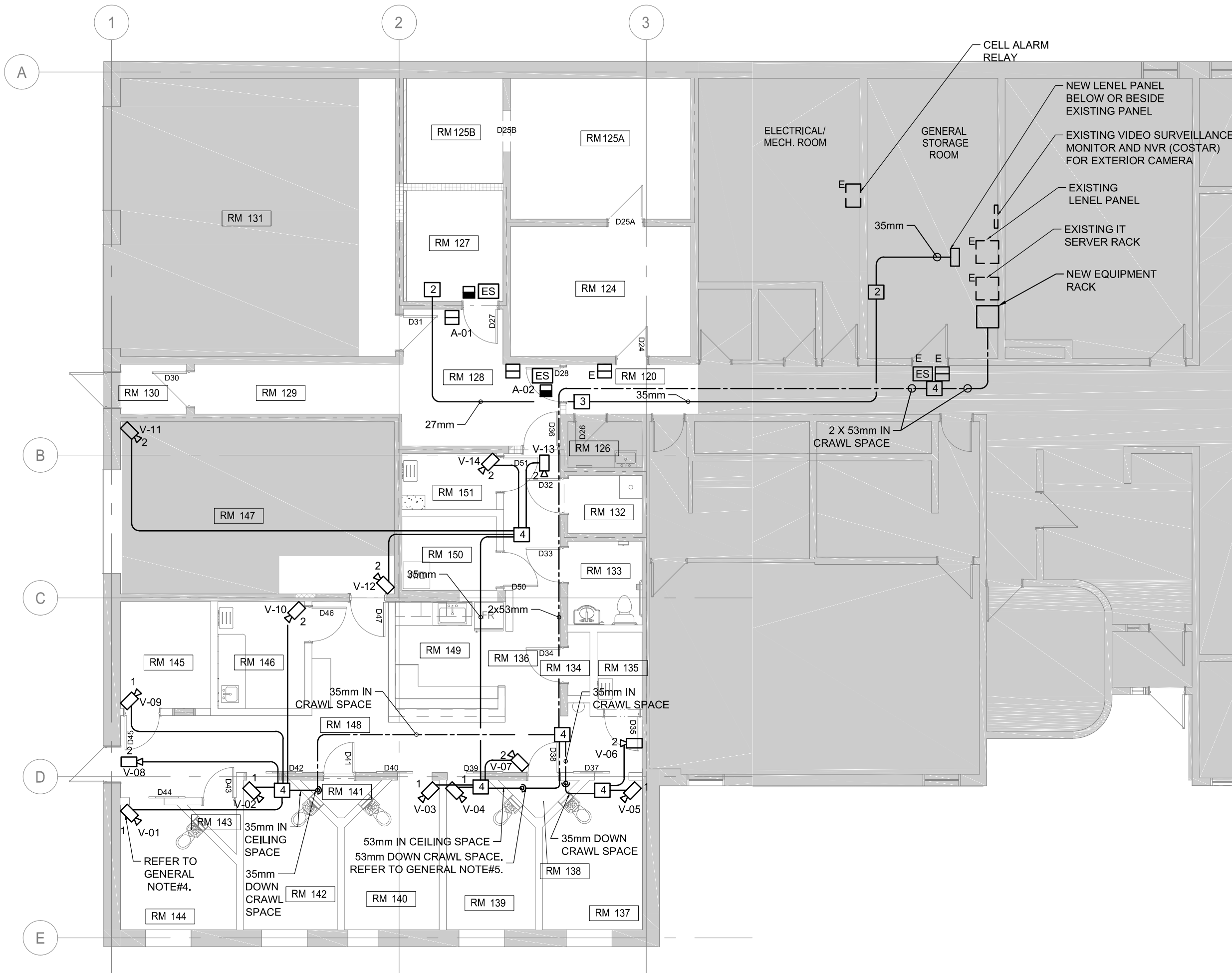
PROJECT
INTERIOR RENOVATIONS

CONTENTS
MAIN FLOOR VIDEO SURVEILLANCE
ACCESS CONTROL PLAN
AND SINGLE LINE DIAGRAMS

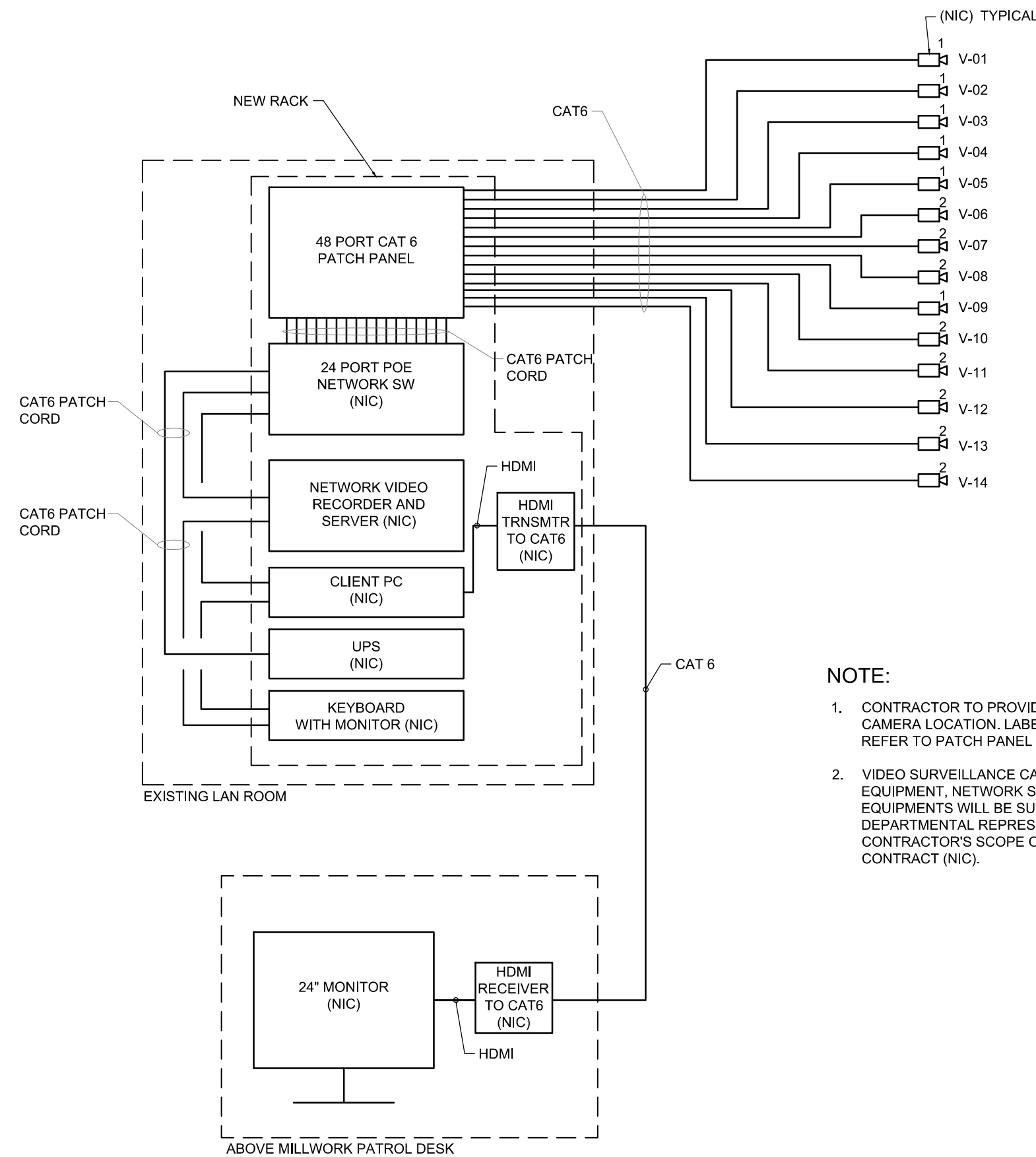
PROJECT NUMBER
17180

DATE
08/20/2018

SHEET NUMBER
T2



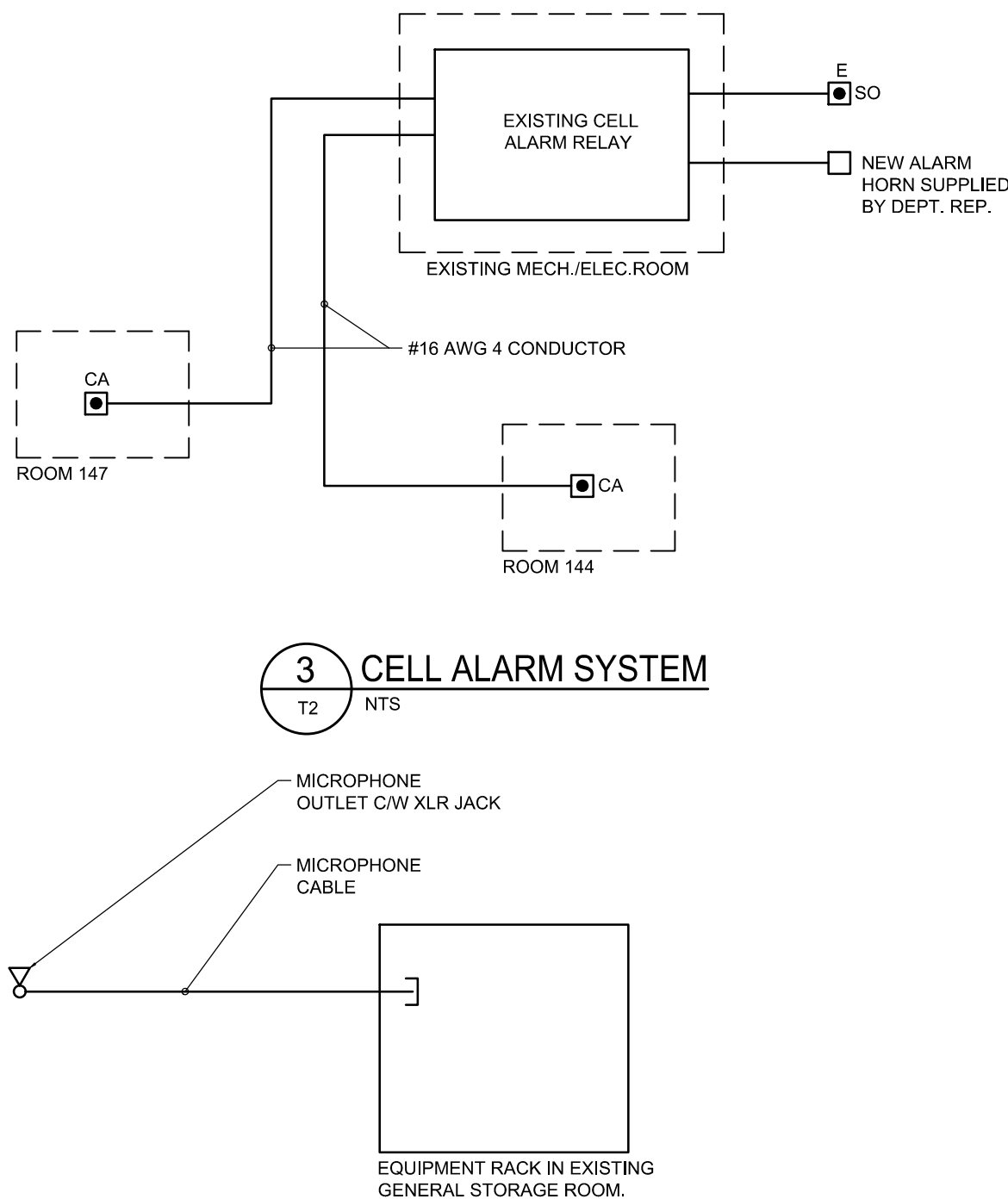
1 MAIN FLOOR VIDEO SURVEILLANCE AND ACCESS CONTROL SYSTEM PLAN
T2 1:100



2 VIDEO SURVEILLANCE SINGLE LINE DIAGRAM
T2 NTS

CATEGORY 6 KEYSTONE PATCH PANEL		IT ROOM RACK #2 PATCH PANEL "A"					
PORT	DRAWING DESIGNATOR	DESIGNATOR LABEL	NOTES	PORT	DRAWING DESIGNATOR	DESIGNATOR LABEL	NOTES
1	V-01	R2-1A-01	CAMERA	25	V-13	R2-1A-25	CAMERA
2	V-01	R2-1A-02	CAMERA	26	V-13	R2-1A-26	CAMERA
3	V-02	R2-1A-03	CAMERA	27	V-14	R2-1A-27	CAMERA
4	V-02	R2-1A-04	CAMERA	28	V-14	R2-1A-28	CAMERA
5	V-03	R2-1A-05	CAMERA	29	V-15	R2-1A-29	CAMERA
6	V-03	R2-1A-06	CAMERA	30	V-15	R2-1A-30	CAMERA
7	V-04	R2-1A-07	CAMERA	31		R2-1A-31	
8	V-04	R2-1A-08	CAMERA	32		R2-1A-32	
9	V-05	R2-1A-09	CAMERA	33		R2-1A-33	
10	V-05	R2-1A-10	CAMERA	34		R2-1A-34	
11	V-06	R2-1A-11	CAMERA	35		R2-1A-35	
12	V-06	R2-1A-12	CAMERA	36		R2-1A-36	
13	V-07	R2-1A-13	CAMERA	37		R2-1A-37	
14	V-07	R2-1A-14	CAMERA	38		R2-1A-38	
15	V-08	R2-1A-15	CAMERA	39		R2-1A-39	
16	V-08	R2-1A-16	CAMERA	40		R2-1A-40	
17	V-09	R2-1A-17	CAMERA	41		R2-1A-41	
18	V-09	R2-1A-18	CAMERA	42		R2-1A-42	
19	V-10	R2-1A-19	CAMERA	43		R2-1A-43	
20	V-11	R2-1A-20	CAMERA	44		R2-1A-44	
21	V-11	R2-1A-21	CAMERA	45		R2-1A-45	
22	V-11	R2-1A-22	CAMERA	46		R2-1A-46	
23	V-12	R2-1A-23	CAMERA	47		R2-1A-47	
24	V-12	R2-1A-24	CAMERA	48		R2-1A-48	

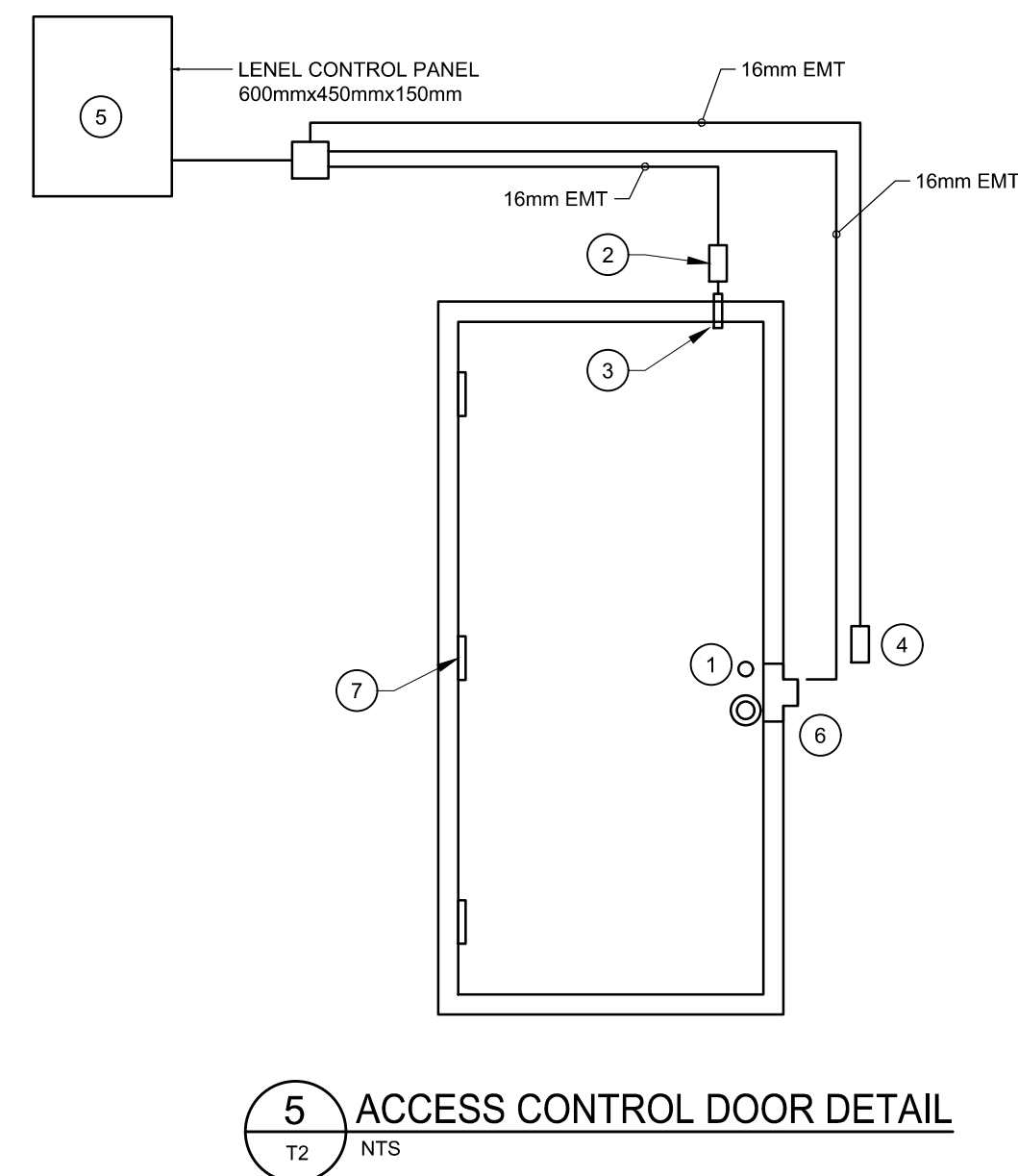
6 IT ROOM RACK #2 PATCH PANEL "A"
T2 NTS



4 MICROPHONE SINGLE LINE DIAGRAM
T2 NTS

NOTE:

- AUDIO RECORDING EQUIPMENT IS SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO PROVIDE MICROPHONE OUTLET C/W XLR JACK AND FACEPLATE. MICROPHONE CABLE TO EXISTING EQUIPMENT RACK IN GENERAL STORAGE ROOM. CONTRACTOR TO COORDINATE TERMINATION OF CABLE IN THE RACK WITH DEPARTMENTAL REPRESENTATIVE.



5 ACCESS CONTROL DOOR DETAIL
T2 NTS

DRAWING NOTES:

- SCHLAGE L9482 MORTISE LOCK WITH 41 ORB KNOBS. SUPPLIED AND INSTALLED BY DOOR HARDWARE CONTRACTOR.
- 50mmx100mm DEVICE BOX FOR SPLICE AND BUZZER. BUZZER BY DEPARTMENTAL REPRESENTATIVE.
- DOOR/FRAME PREP 1" RECESSED SENTROL 1078 SERIES CONTACT 4" FROM LEAD EDGE OF DOOR. DOOR CONTACT BY DEPARTMENTAL REPRESENTATIVE. WIRING REQUIREMENT: ONE RUN CAT 6 CABLE. WIRE TO BE SUPPLIED TO DOOR FRAME WITH CLEARANCE FOR CONTACT.
- 50mmx100mm DEVICE BOXES LOCATED 48" AFF FOR CARD READERS. WIRING REQUIRED: ONE RUN 6 CONDUCTOR SHIELDED STRANDED CABLE, 22g FOR EACH READER. CABLE REQUIREMENT MANUFACTURER: REMEE PART NO.: RM-725285M2.
- CONTROL PANEL SUPPLIED AND INSTALLED BY DEPARTMENTAL REPRESENTATIVE.
- ELECTRIFIED LOCK BY DEPARTMENTAL REPRESENTATIVE.
- ELECTRIFIED HINGE.