

INTERIOR ALTERATIONS TO EXISTING FIRE HALL

553 KINGSTON ROAD,
PICKERING, ONTARIO

LIST OF DRAWINGS

000 COVER SHEET

ARCHITECTURAL

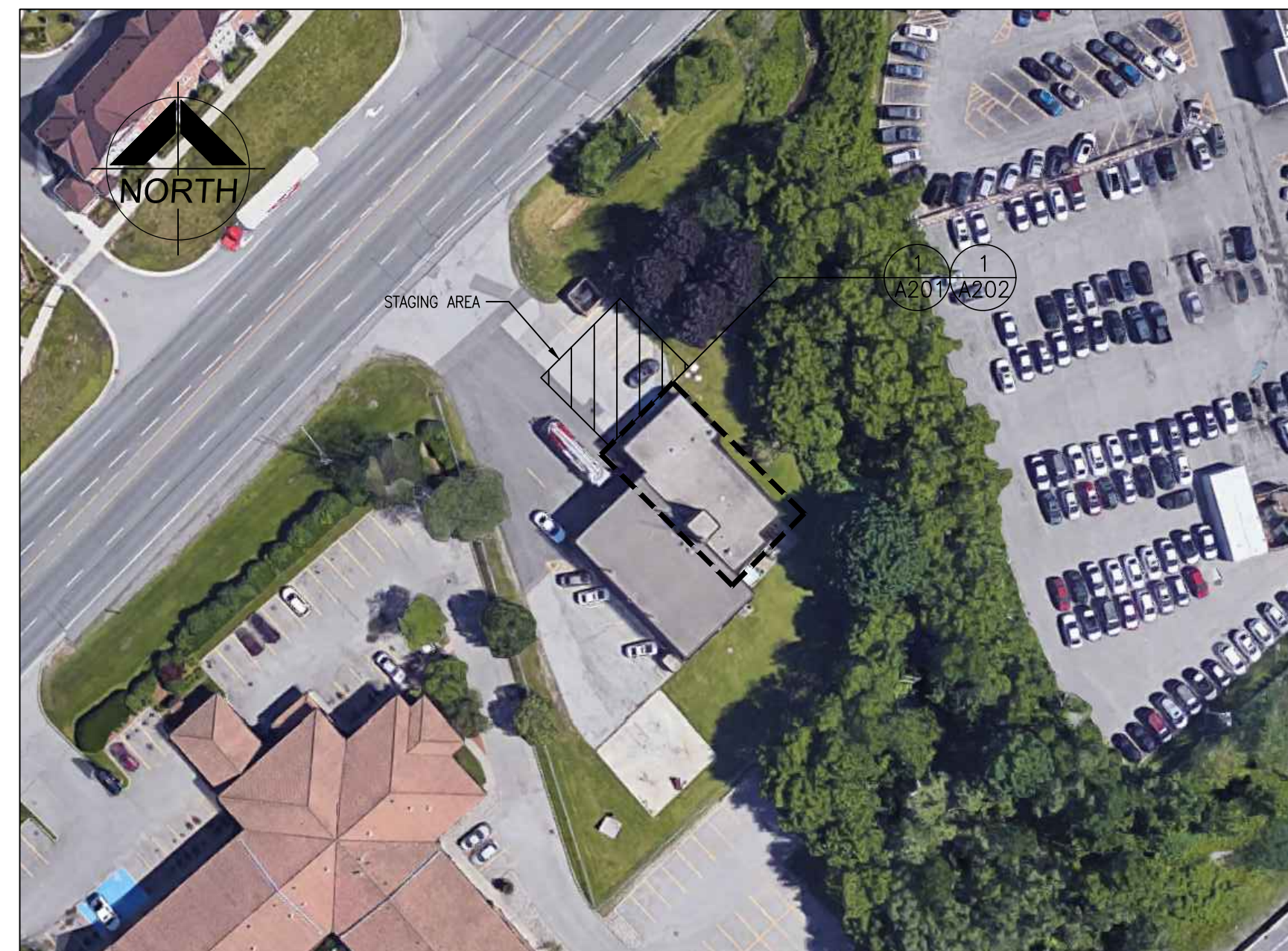
- A201 GROUND FLOOR DEMOLITION PLAN
- A202 GROUND FLOOR PLAN AND ENLARGED PLAN
- A203 GROUND FLOOR REFLECTED CEILING PLAN
- A801 DOOR SCHEDULE, ROOM FINISH SCHEDULE, DOOR HEAD AND JAMB DETAILS
- A901 INTERIOR ELEVATIONS
- A902 MILLWORK ELEVATIONS
- A903 MILLWORK SECTIONS

MECHANICAL

- M-1 MECHANICAL - HVAC
- M-2 MECHANICAL - PLUMBING AND DRAINAGE
- M-3 SCHEDULES AND DETAILS
- M-4 MECHANICAL SPECS, LEGEND AND DRAWING LIST

ELECTRICAL

- E-1.1 ELECTRICAL LEGEND AND DETAILS
- E-1.2 ELECTRICAL DETAILS
- E-1.3 ELECTRICAL DETAILS
- E-2.1 ELECTRICAL AND REFLECTED CEILING PLANS
- E-5.1 ELECTRICAL AND REFLECTED CEILING DEMOLITION PLANS
- E-7.1 ELECTRICAL SINGLE LINE DIAGRAM



NAME OF CONSULTANT : BARRY BRYAN ASSOCIATES CERTIFICATE OF PRACTICE NUMBER : 5192 250 WATER STREET, SUITE 201 WHITBY, ONTARIO, CANADA L1N 0G5 TEL: (905) 666-5252 (Toronto) (905) 427-4495 FAX: (905) 666-5256	
NAME OF PROJECT : INTERIOR ALTERATIONS TO EXISTING FIRE HALL	
LOCATION OF PROJECT : 553 KINGSTON ROAD, PICKERING, ONTARIO	
DATE : NOV 14, 2019	
Ontario Building Code Data Matrix Part 11 - Renovation of Existing Building	
OBC Reference	
11.00 Building Code Version:	O_Reg_332/12 Last Amendment: O_Reg_191/14
11.01 Project Type:	<input type="checkbox"/> Addition <input checked="" type="checkbox"/> Renovation <input type="checkbox"/> Addition and Renovation <input type="checkbox"/> Change of use Description: INTERIOR ALTERATIONS TO FIRE HALL LIVING QUARTERS
11.02 Major Occupancy Classification:	Occupancy Use C FIRE HALL LIVING QUARTERS F2 FIRE HALL APPARATUS BAY
11.03 Superimposed Major Occupancies:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Description:
11.04 Building Area (m ²):	Description Existing New Total BASEMENT 66.6 0 66.6 1ST FLOOR LIVING QUARTERS 66.6 0 66.6 1ST FLOOR (APPARATUS BAY) 71.8 0 71.8 Total: 205 0 205
11.05 Building Height:	1 Storeys above grade 9.1 (m) Above grade 1 Storeys below grade
11.06 Number of streets/ fire-fighter access:	1 street(s)
11.07 Building Size:	<input checked="" type="checkbox"/> Small <input type="checkbox"/> Medium <input type="checkbox"/> Large <input type="checkbox"/> > Large
11.08 Existing Building Classification:	Change in Major Occupancy: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (no change of major occupancy) Construction Index: - Hazard Index: - Importance Category: <input type="checkbox"/> Low <input type="checkbox"/> Normal <input type="checkbox"/> High <input type="checkbox"/> Post-disaster
11.09 Renovation Type:	<input checked="" type="checkbox"/> Basic Renovation <input type="checkbox"/> Extensive Renovation
11.10 Occupant Load:	Floor Level/ Area Occupancy Type Based On Occup. Load FIRST FLOOR C DESIGN 5 FIRST FLOOR F2 DESIGN 0
11.11 Plumbing Fixture Requirements:	Ratio: Male/Female = 50:50 Except as noted otherwise Floor level/ Area Occupant Load OBC Reference Fixtures Required Fixtures Provided FIRST FLOOR 5 3.7.4.6 2 3
11.12 Barrier-free Design:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Explanation:
11.13 Reduction in Performance Level:	Structural <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Sewage - system: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
11.14 Compensating Construction:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Structural <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes NEW TO MEET PART 7 Sewage - system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes NEW TO MEET PART 8 Extension of Combustible Construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
11.15 Compliance Alternatives Proposed:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
11.16 Notes:	

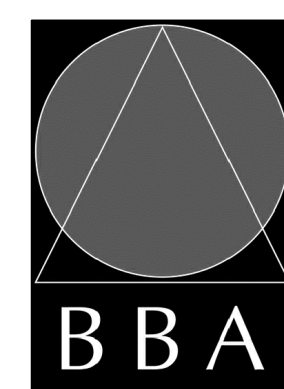
SET NO.

NO.	ISSUES	DATE	BY
1	ISSUED FOR TENDER	SEPT. 21, 2018	BBA
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PICKERING, ONTARIO

ARCHITECTURAL:



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Architects, Engineers, Project Managers
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ELECTRICAL:



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DESIGN AND TECHNOLOGY SERVICES GROUP
HCC ENGINEERING LIMITED
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MECHANICAL:



MADONNA ENGINEERING INC.
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Woodbridge, Ontario L4L 7Y7
Tel: (905) 265 1911 Fax: (905) 265 1998



PROJECT NO. 17216

A000

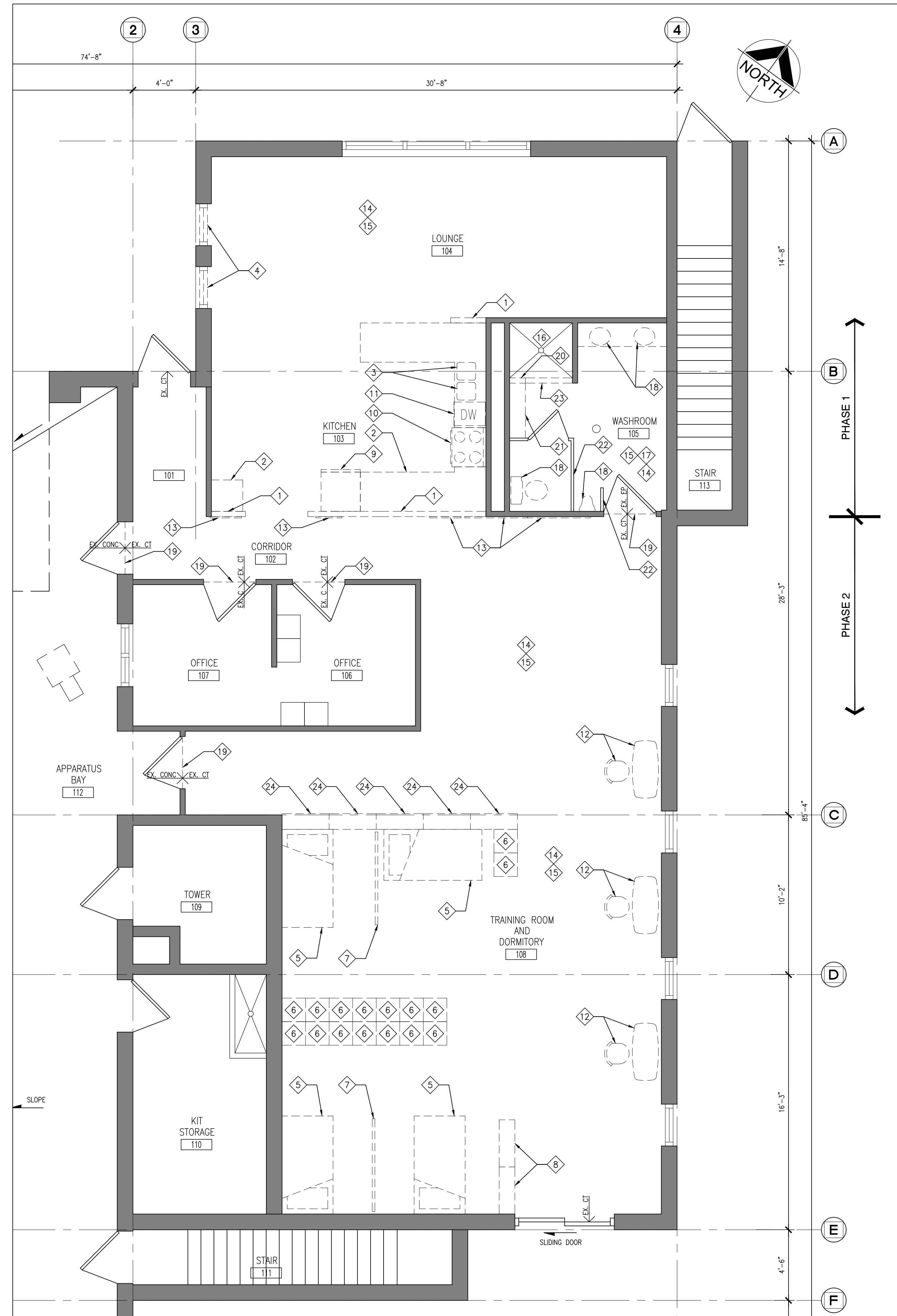
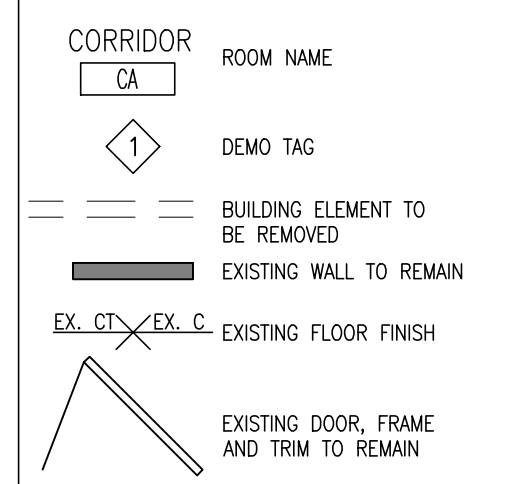
GENERAL DEMOLITION NOTES

1. SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
3. PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE, LANDSCAPE OR PART THEREOF.
4. COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS NOTED OTHERWISE.
5. ARCHITECTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER.
6. NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR DISCOVERED DURING WORK AND NOT INDICATED ON DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY THE CONSULTANT.
7. PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASES AS REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO BE REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF ANY COMPONENTS WHICH MAY FALL OR CAUSE OTHERS TO FALL.
8. MAINTAIN WORK AREAS AND STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES.
9. REMOVAL OF EXISTING FLOOR FINISHES IS TO INCLUDE COMPLETE REMOVAL OF BASE AND ALL MORTAR AND ADHESIVES AND PREPARATION OF EXISTING SUBSTRATES TO RECEIVE NEW FLOORING, SATISFACTORY TO THE MANUFACTURER OF NEW FLOOR FINISHES. ALLOW FOR EXCESSIVE LEVELING OF SLABS.
10. DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.
11. CLEAN AND REPAIR ALL EXISTING SURFACES TO REMAIN, AS NECESSARY TO RECEIVE NEW FINISHES.
12. DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.
13. DISPOSE OF ALL MATERIALS OFF SITE. COORDINATE ITEMS FOR SALVAGE / HANDOVER WITH OWNER.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR / REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
15. WORK MUST BE PHASED TO ACCOMMODATE CONTINUOUS FACILITY OPERATION. REFER TO PLANS FOR PHASING.

DEMOLITION NOTES

- 1 COMPLETELY REMOVE EXISTING BLOCK WALL TO EXTENT INDICATED.
- 2 COMPLETELY REMOVE EXISTING CABINET UPPERS AND LOWERS.
- 3 COMPLETELY REMOVE EXISTING SINK.
- 4 COMPLETELY REMOVE EXISTING WINDOW, BLINDS AND PRECAST CONCRETE SILL.
- 5 CAREFULLY REMOVE EXISTING BED TO BE RELOCATED. REFER TO GROUND FLOOR PLAN.
- 6 CAREFULLY REMOVE EXISTING LOCKERS TO BE RELOCATED. REFER TO GROUND FLOOR PLAN FOR NEW LOCATION.
- 7 CAREFULLY REMOVE EXISTING DIVIDER TO BE RELOCATED. REFER TO GROUND FLOOR PLAN.
- 8 CAREFULLY REMOVE EXISTING BOOKSHELF AND RETURN TO OWNER.
- 9 RELOCATE EXISTING FRIDGE TO BASEMENT. COORDINATE LOCATION WITH OWNER.
- 10 RELOCATE EXISTING STOVE TO BASEMENT. COORDINATE LOCATION WITH OWNER.
- 11 RELOCATE EXISTING DISHWASHER TO BASEMENT. COORDINATE LOCATION WITH OWNER.
- 12 CAREFULLY REMOVE EXISTING COMPUTER DESK AND CHAIR AND RETURN TO OWNER.
- 13 CAREFULLY REMOVE BULLETIN/INFORMATION BOARD AND RETURN TO OWNER.
- 14 REMOVE EXISTING FLOOR FINISHES AND WALL BASE. PREPARE SURFACES TO RECEIVE NEW FINISHES.
- 15 REMOVE EXISTING CEILING INCLUDING ALL FIXTURES AND EQUIPMENT. REFER TO ELECTRICAL FOR ADDITIONAL REQUIREMENTS.
- 16 REMOVE EXISTING WALL TILE.
- 17 CAREFULLY REMOVE EXISTING WASHROOM ACCESSORIES AND RE-INSTALL IN NEW WASHROOM. COORDINATE LOCATIONS WITH OWNER.
- 18 REMOVE EXISTING FIXTURES.
- 19 REMOVE EXISTING FLOOR TRANSITION STRIP.
- 20 REMOVE EXISTING MASONRY SHOWER WALL FOR EXTENTS SHOWN.
- 21 REMOVE EXISTING BENCH.
- 22 CAREFULLY REMOVE SALVAGE AND REINSTALL EXISTING WASHROOM PARTITIONS.
- 23 REMOVE EXISTING CONCRETE CURB.
- 24 CAREFULLY REMOVE EXISTING CABINET AND RELOCATE TO BASEMENT. COORDINATE FINAL LOCATION W/ OWNER.

DEMOLITION LEGEND



1 A201 GROUND FLOOR DEMOLITION PLAN
1/4" = 1'-0"

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CITY OF PICKERING CULTURE
& RECREATION DEPARTMENT

DRAWING:
GROUND FLOOR DEMOLITION PLAN

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 Project Managers
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 e-mail: bba@bba-archeng.com

DESIGN BY: RL	DOC CONTROL: DATE:
DRAWN BY: JJ	% COMPLETE:
CHECKED BY:	INITIAL:

DATE: JANUARY 2018
 SCALE: 1/4" = 1'-0"
 FILE:

PROJECT NO: **17216** DRAWING NO: **A201**

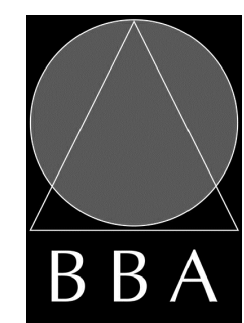
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DRAWING:
**GROUND FLOOR PLAN
 AND ENLARGED PLANS**

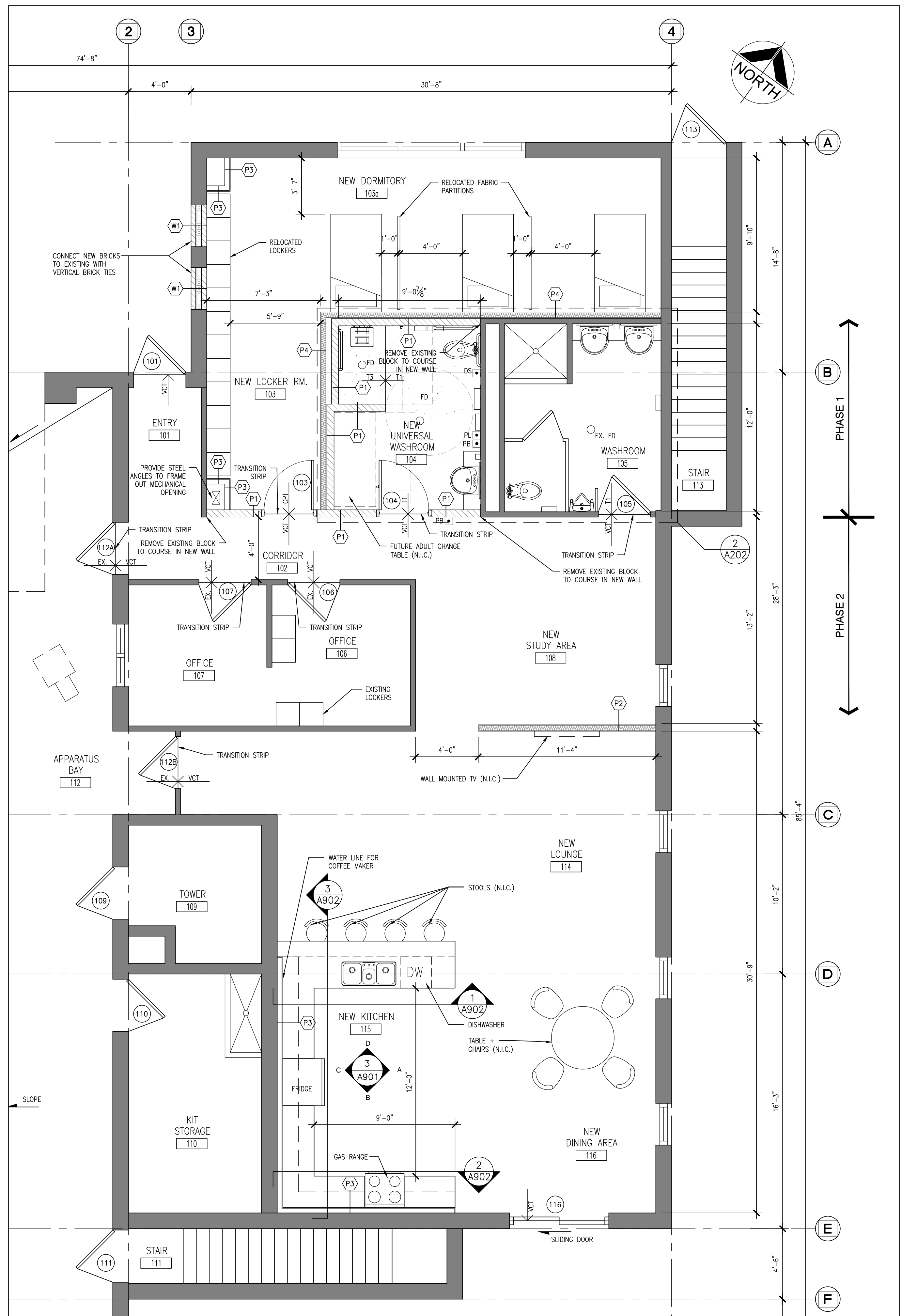


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DRAWN BY: JJ	% COMPLETE:
CHECKED BY:	INITIAL:
DATE: JANUARY 2018	SCALE: VARIES
FILE:	

PROJECT NO:
17216

DRAWING NO:
A202



1
A202 GROUND FLOOR PLAN
 1/4" = 1'-0"

GENERAL NOTES

- SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
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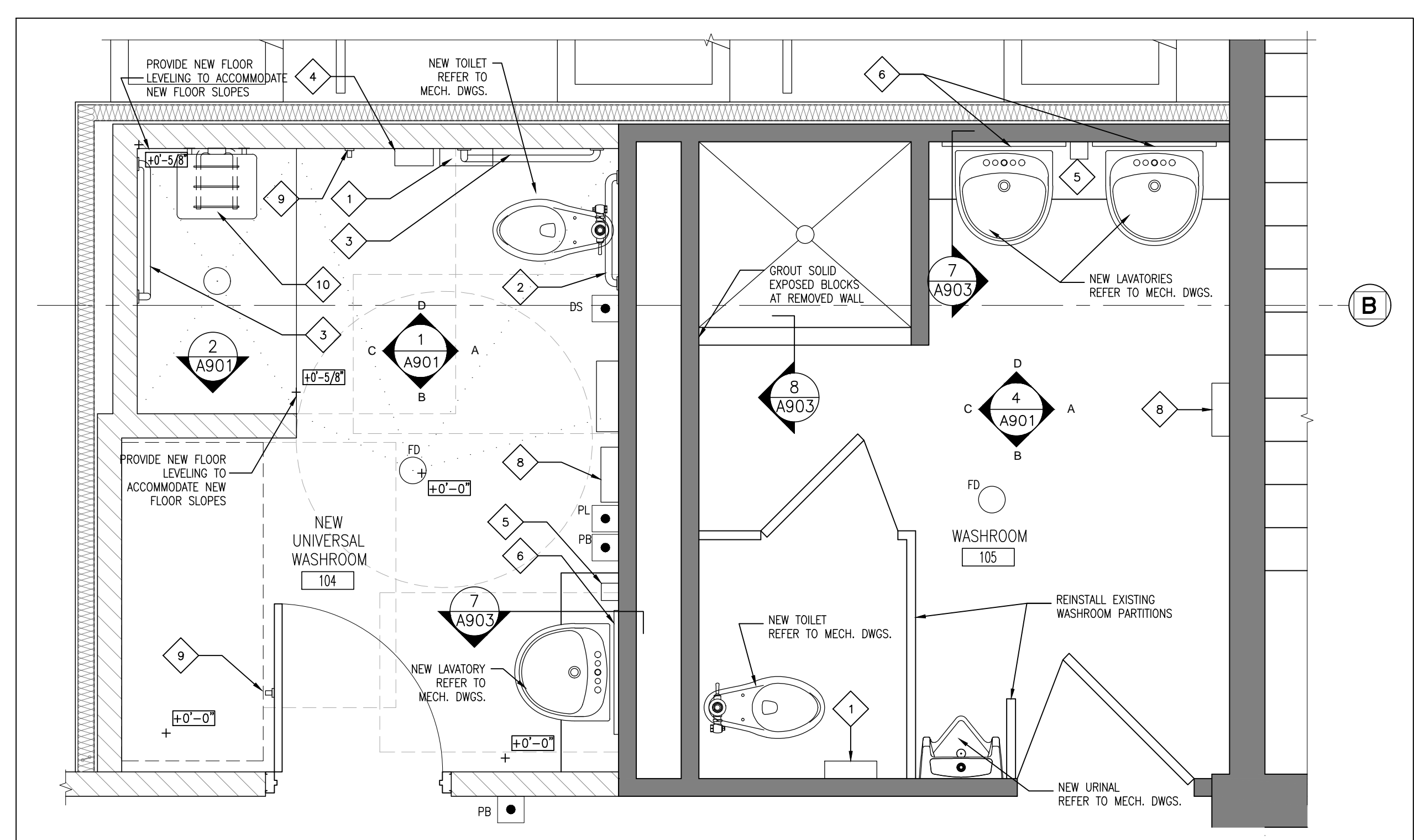
WASHROOM ACCESSORIES LEGEND

1	TOILET TISSUE DISPENSER SUPPLIED BY CITY, INSTALLED BY GENERAL CONTRACTOR. COORDINATE FINAL LOCATION WITH OWNER
2	B.F. GRAB BAR 1
3	B.F. GRAB BAR 2 (L-SHAPED)
4	SANITARY NAPKIN DISPOSAL
5	LIQUID SOAP DISPENSER SUPPLIED BY CITY, INSTALLED BY GENERAL CONTRACTOR
6	2'-4"x3'-0" MIRROR
7	PAPER TOWEL DISPENSER SUPPLIED BY CITY, INSTALLED BY GENERAL CONTRACTOR
8	STAINLESS STEEL SHELF
9	COAT HOOK
10	FOLDING SHOWER SEAT

LEGEND

DS	DURESS STRIP
PL	PUSH TO LOCK
PB	PUSH BUTTON (DOOR OPERATOR)

CORRIDOR	ROOM NAME	VCT	TI	FLOOR FINISH TYPE	WALL SCHEDULE	PARTITION SCHEDULE
CA	(101)	DOOR NUMBER	(W1)	3/2" BRICK TO MATCH EXISTING 1" AIR SPACE	(P1)	NEW 5/8" CONCRETE BLOCK WALL TO 6" ABOVE CEILING BULLNOSE ALL EXPOSED BLOCK WALL CORNERS
D	(101)	INTERIOR ELEVATION	(W1)	3/8" RIGID INSULATION AIR BARRIER 4" CONCRETE BLOCK	(P2)	3/8" GYPSUM BOARD 5/8" METAL STUD W/ ACOUSTIC BAITS
C	A	WASHROOM ACCESSORY TAG	1	COURSE IN INFILL WITH EXISTING BLOCK WALL	(P3)	3/8" GYPSUM BOARD 5/8" METAL STUD TERMINATE 6" ABOVE ACT
		FINISHED FLOOR ELEVATION			(P4)	SAME AS 'P3' BUT ADD ACOUSTIC BAITS AND TERMINATE @ U/S OF EX. ROOF DECK.



2
A202 ENLARGED WASHROOM PLAN
 1/2" = 1'-0"

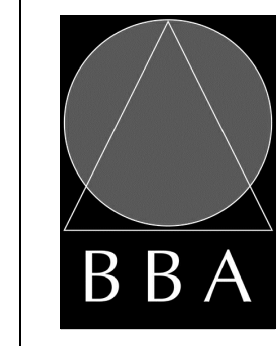
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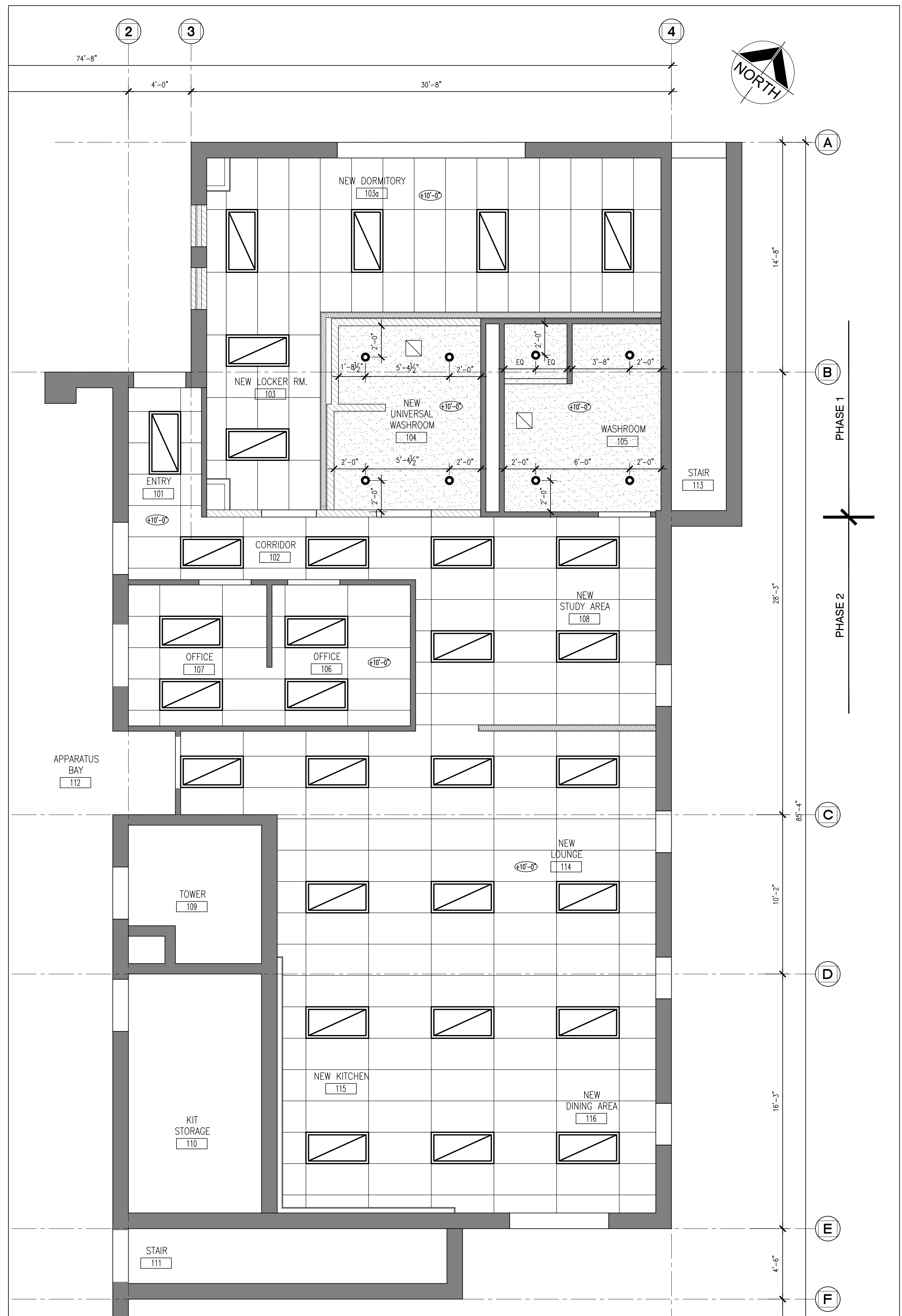
DRAWING:
GROUND FLOOR REFLECTED CEILING PLAN



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DESIGN BY: RL	DOC. CONTROL: DATE:
DRAWN BY: JJ	% COMPLETE:
CHECKED BY:	INITIAL:
DATE: JANUARY 2018	SCALE: 1/4" = 1'-0"
FILE:	

PROJECT NO: **17216**
 DRAWING NO: **A203**



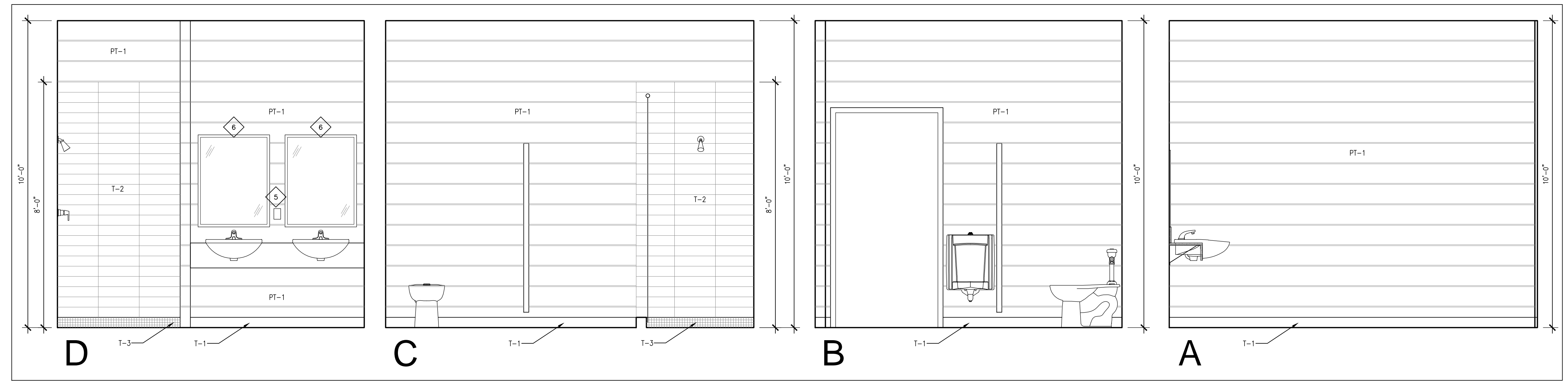
RCP LEGEND

	MECHANICAL VENT
	RECESSED POT LIGHT
	2'x4' LIGHT
	(C1) 2'x4' CEILING GRID
	(C2) GYPSUM BOARD CEILING
	CEILING ELEVATION A.F.F. (SEE CEILING FINISH SCHEDULE)

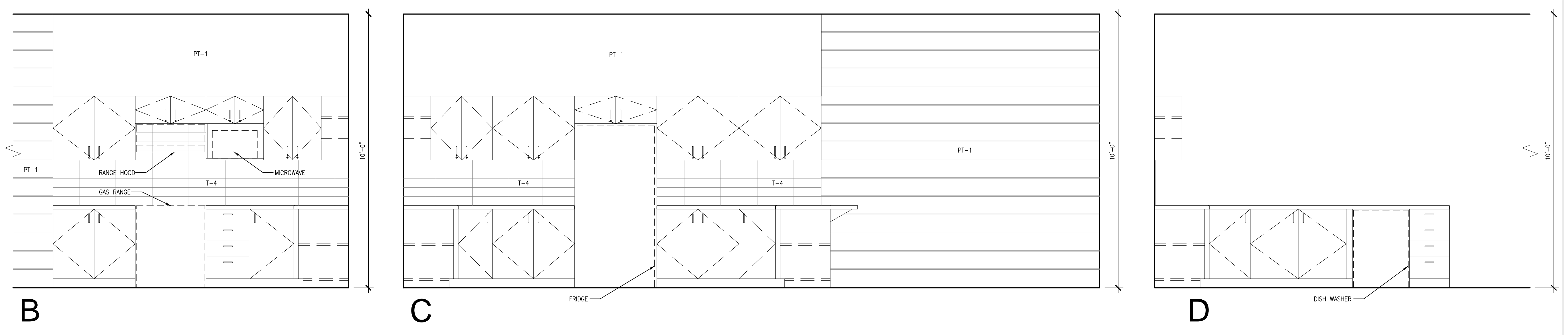
1
A203 FIRST FLOOR RCP
 1/4" = 1'-0"

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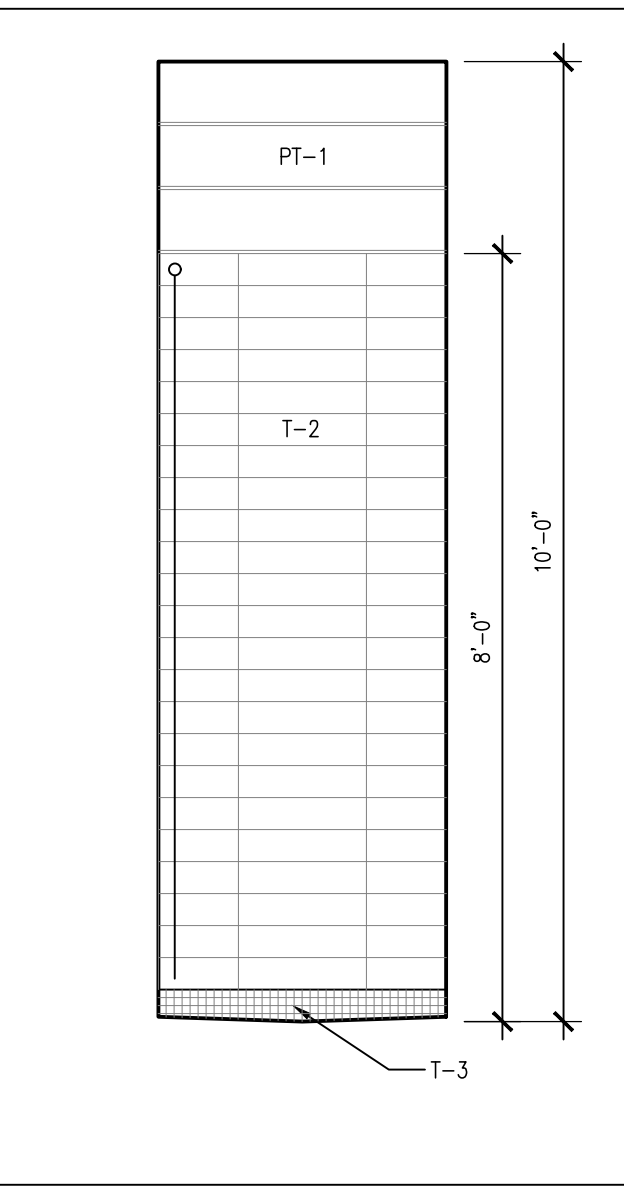
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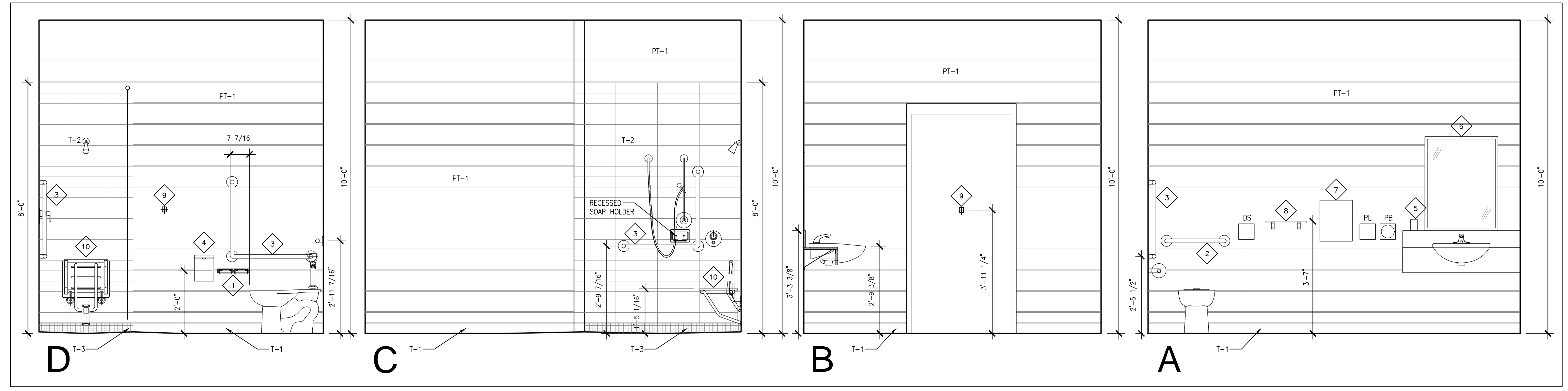
4 EX. WASHROOM INTERIOR ELEVATIONS
 A901 1/2" = 1'-0"



3 NEW KITCHEN INTERIOR ELEVATIONS
 A901 1/2" = 1'-0"



2 HIDDEN ELEVATION
 A901 1/2" = 1'-0"



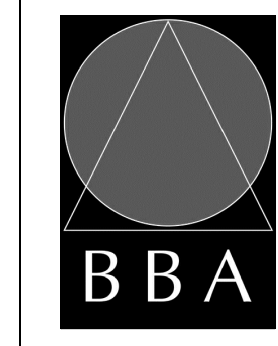
1 NEW BARRIER FREE WASHROOM INTERIOR ELEVATIONS
 A901 1/2" = 1'-0"

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DRAWING:
INTERIOR ELEVATIONS



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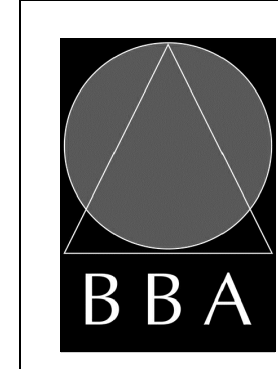
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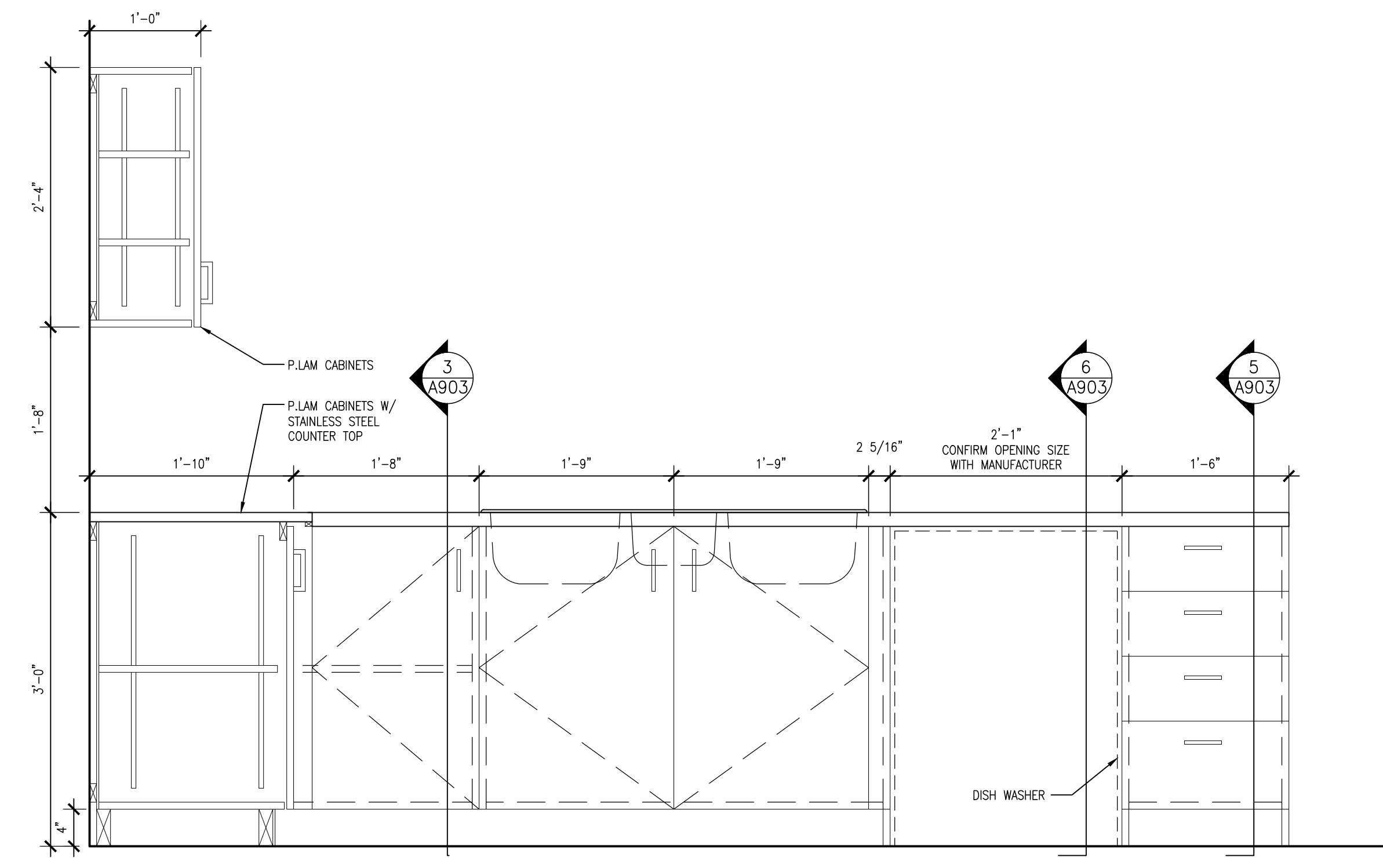
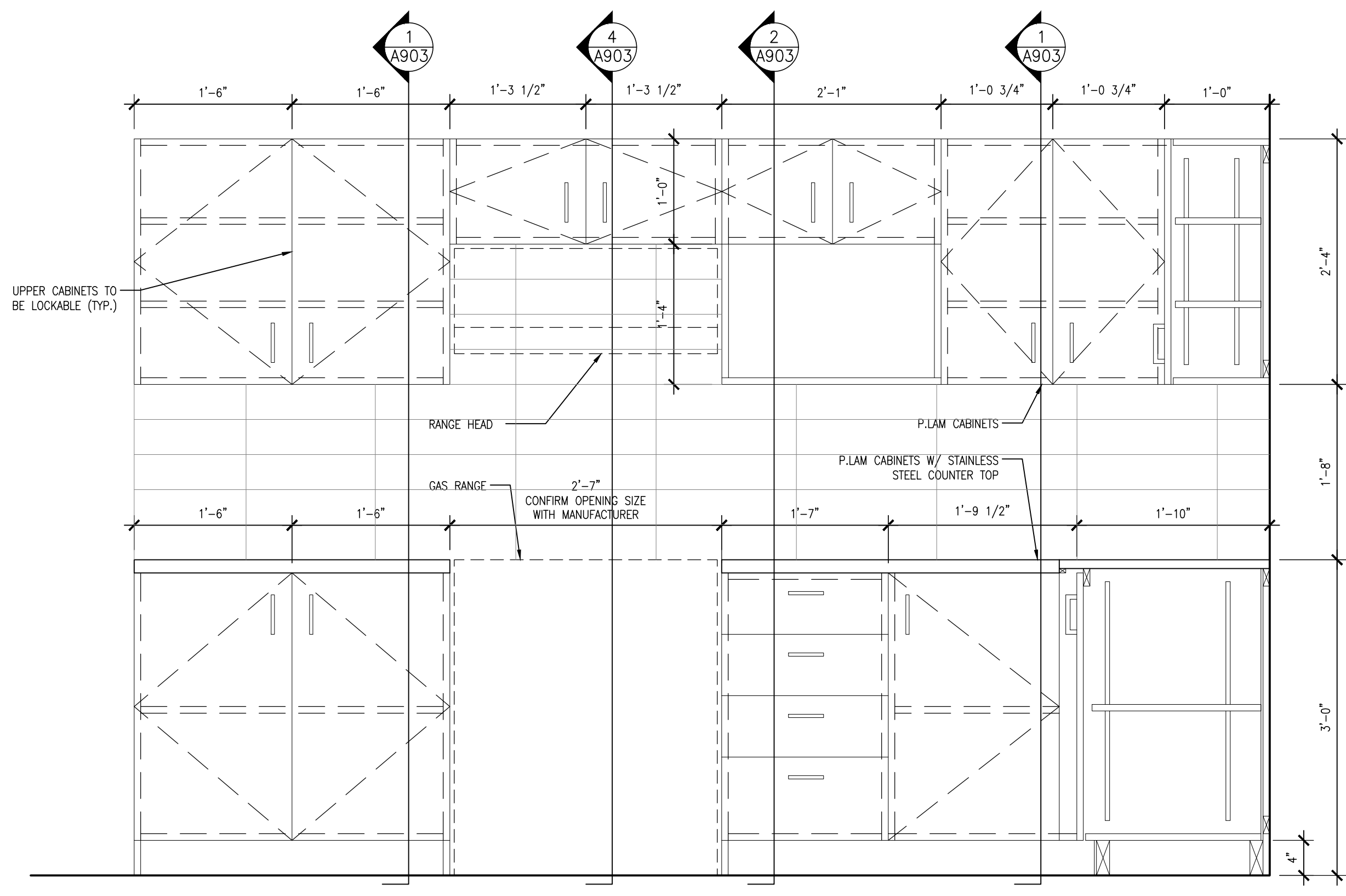
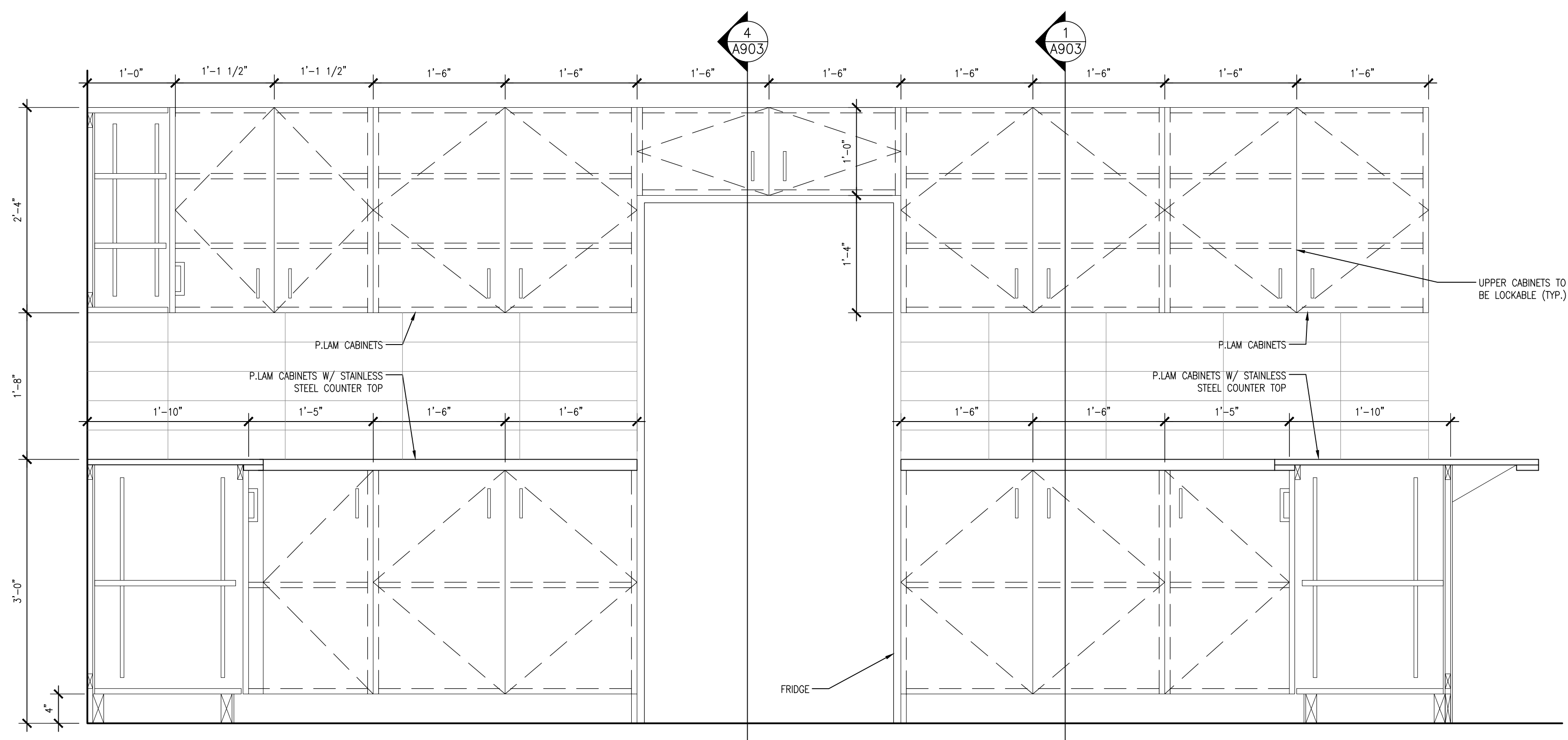
DRAWING:
MILLWORK ELEVATIONS



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DESIGN BY: RL	DOC CONTROL: DATE:
DRAWN BY: JJ	% COMPLETE:
CHECKED BY:	INITIAL:
DATE: JANUARY 2018	
SCALE: 1" = 1'-0"	
FILE:	

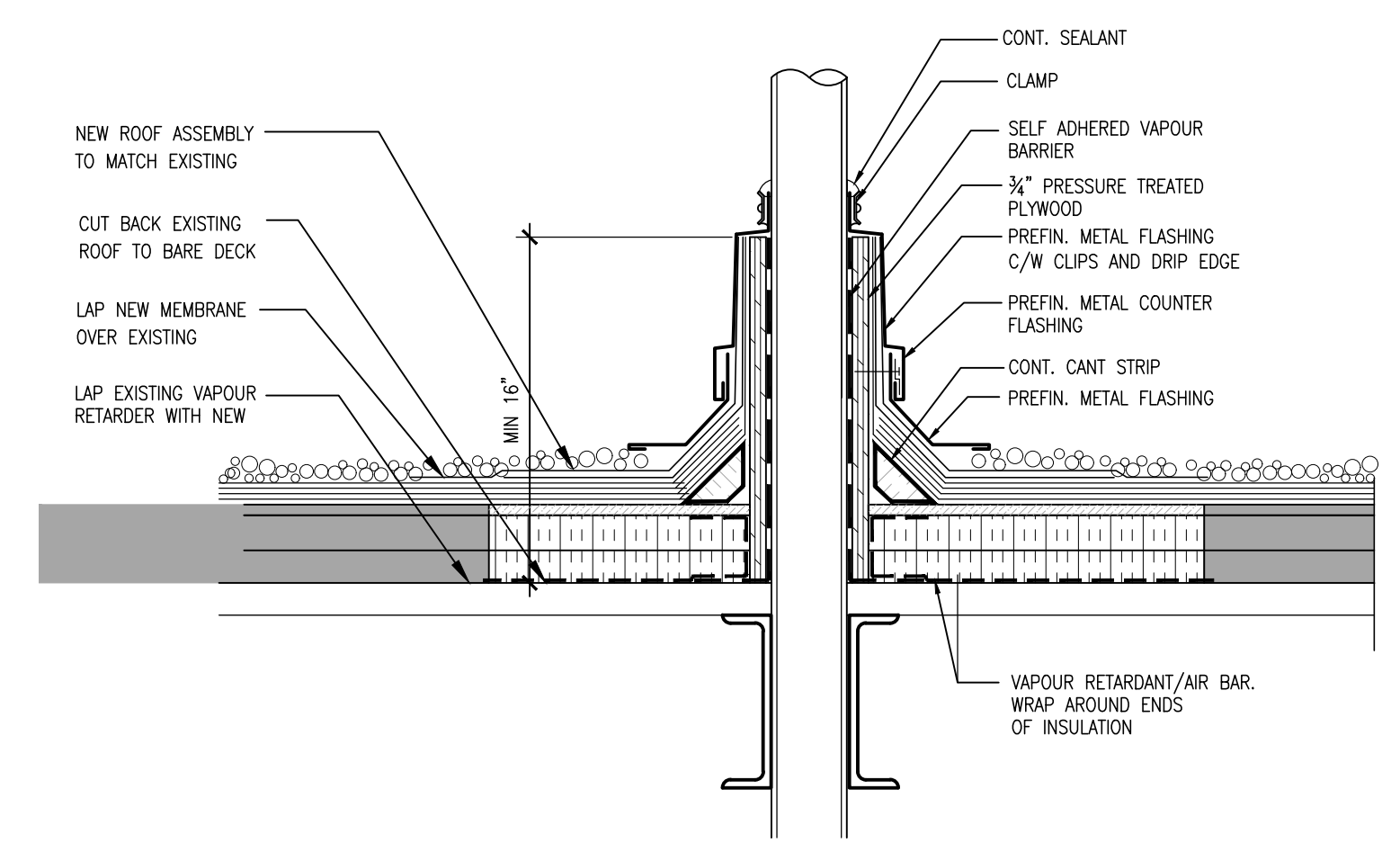
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17216
 DRAWING NO:
A902



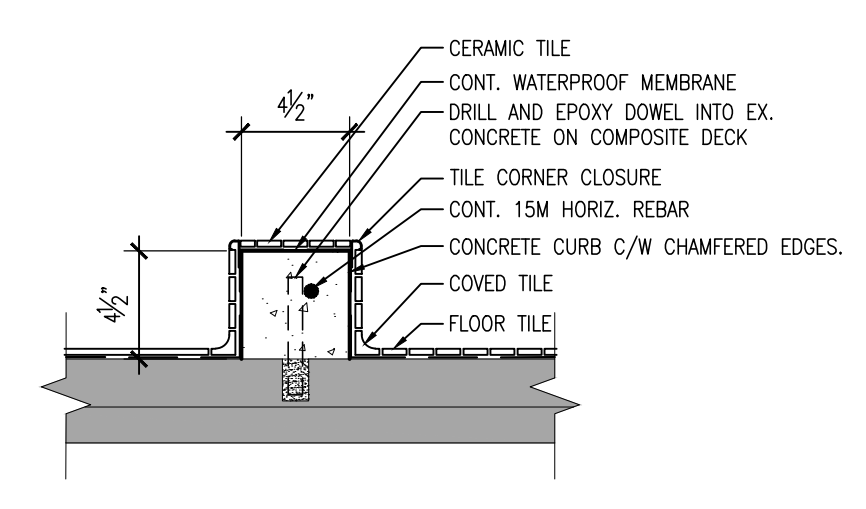
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1	ISSUED FOR CLIENT REVIEW	—	BBA
2	ISSUED FOR TENDER	SEPT. 21, 2018	BBA
3	ISSUED FOR PERMIT	SEPT. 26, 2018	BBA
4	ISSUED FOR TENDER	NOV. 14, 2018	BBA

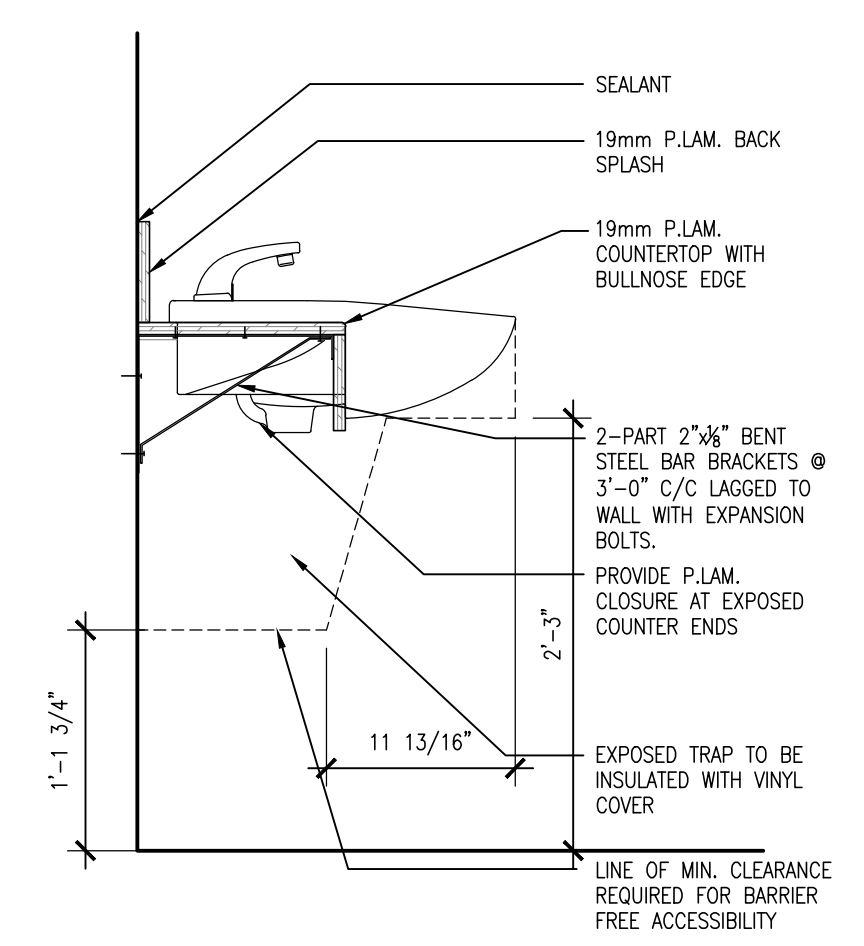
NO.	REVISIONS	DATE	BY



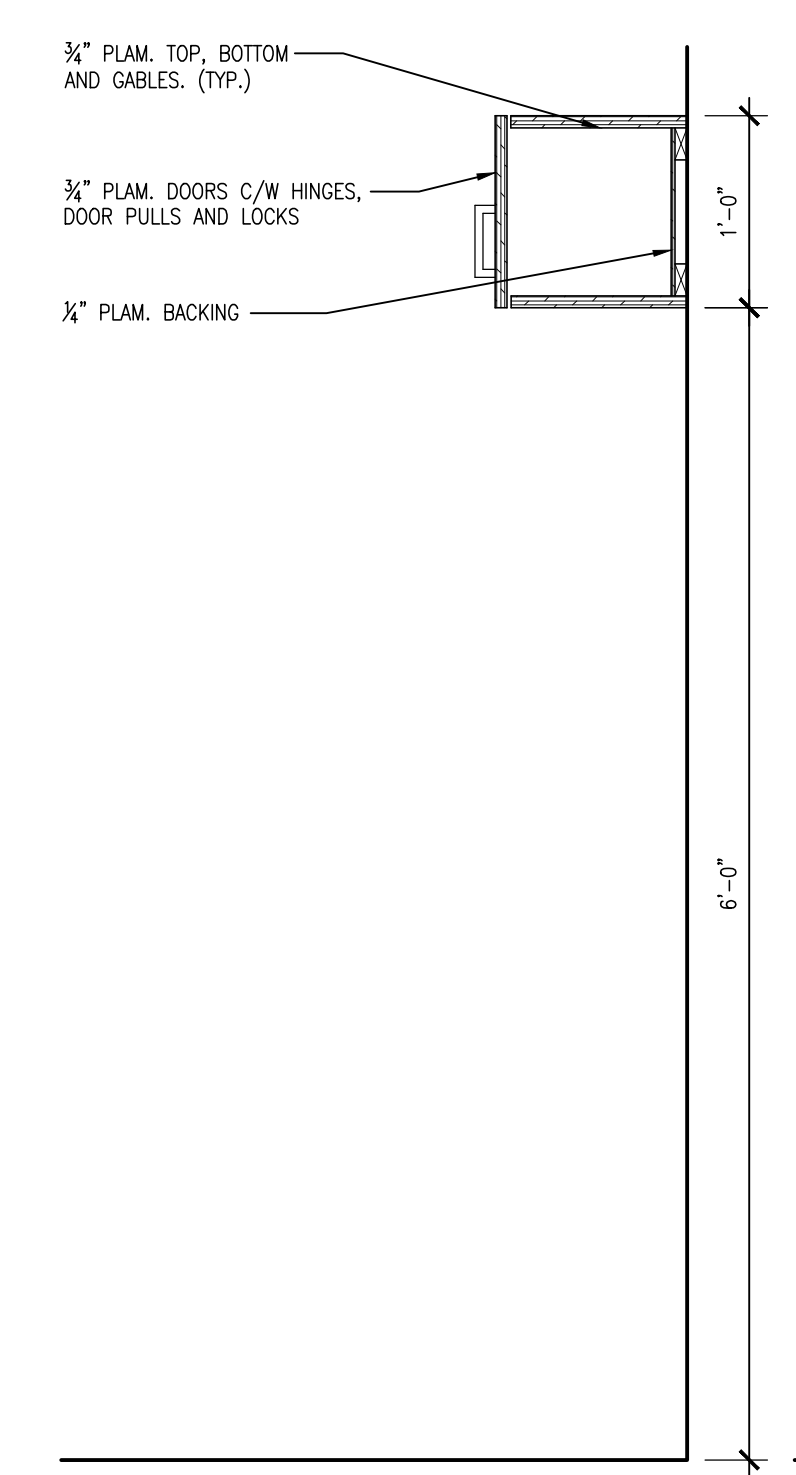
9 ROOF PENETRATION DETAIL
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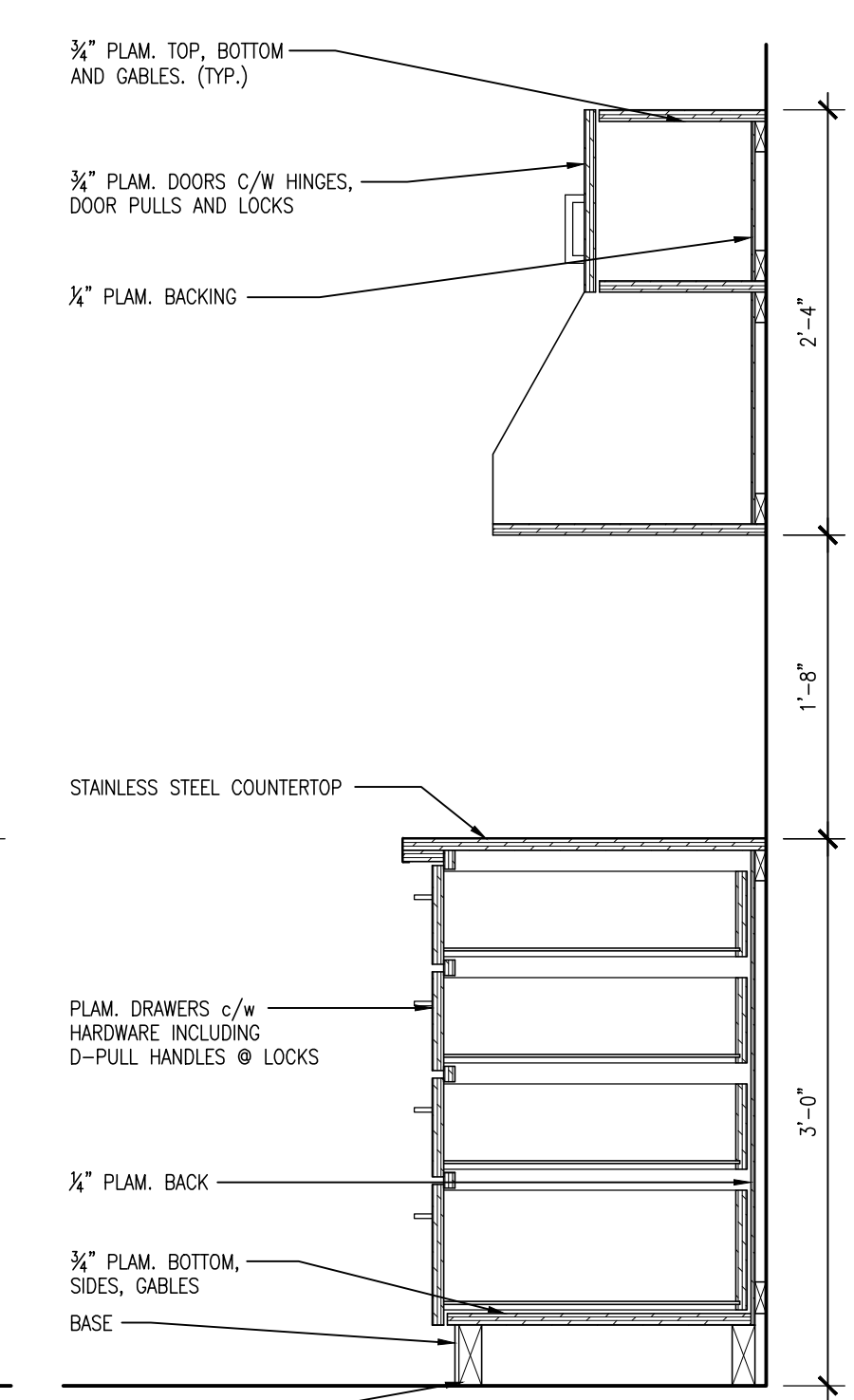
8 NEW SHOWER CURB DETAIL
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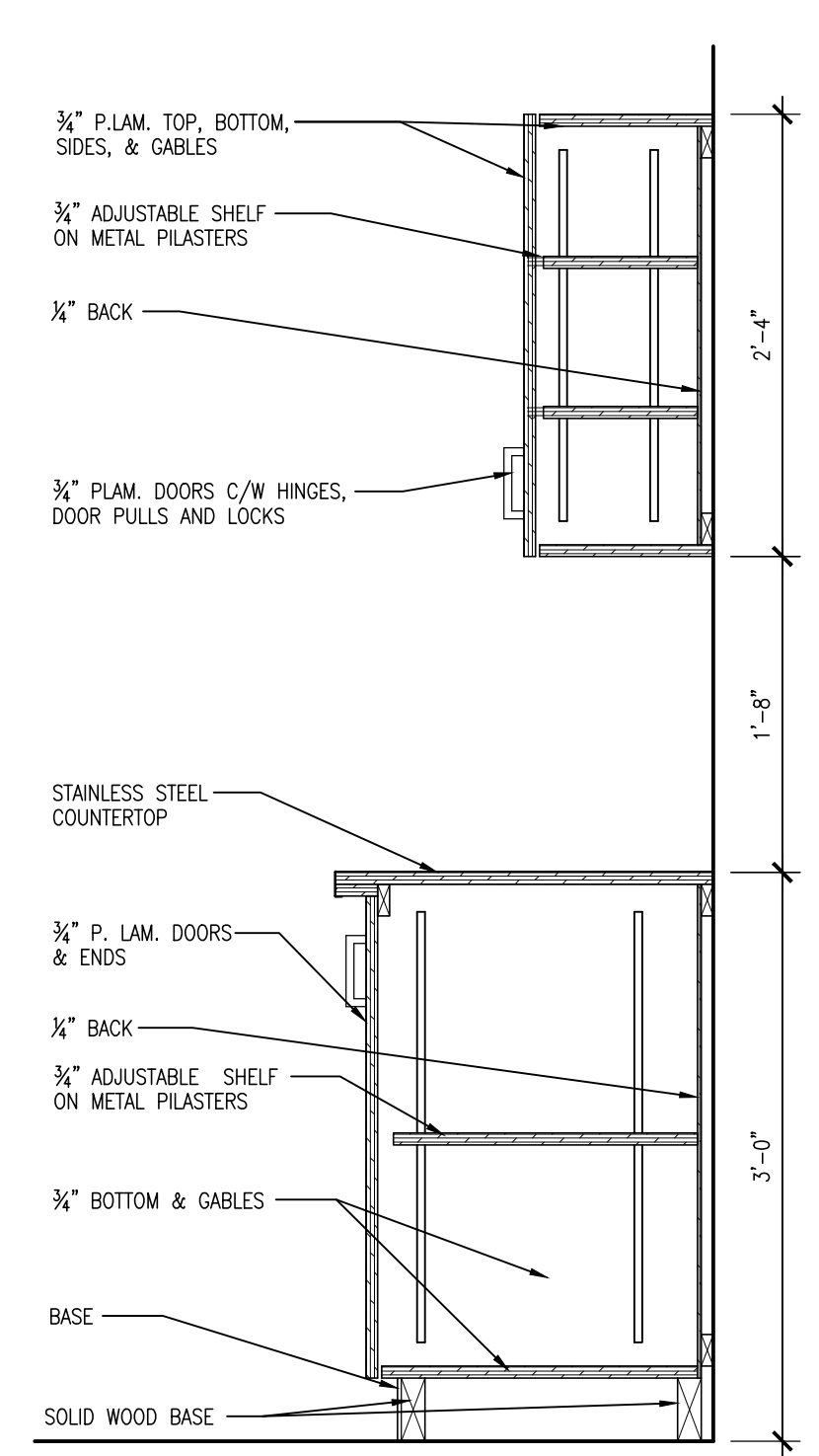
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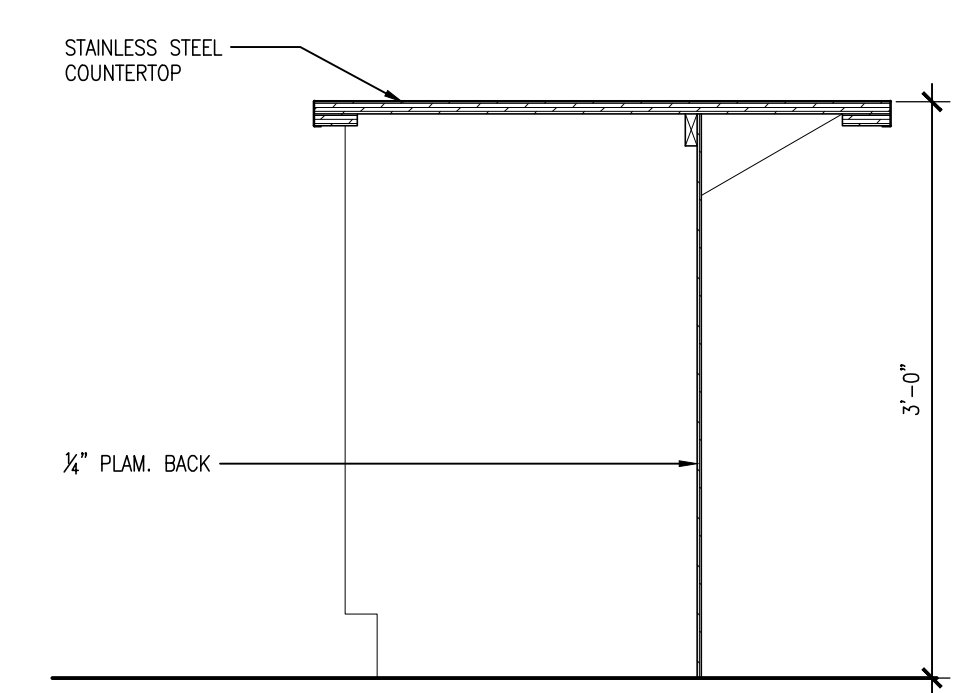
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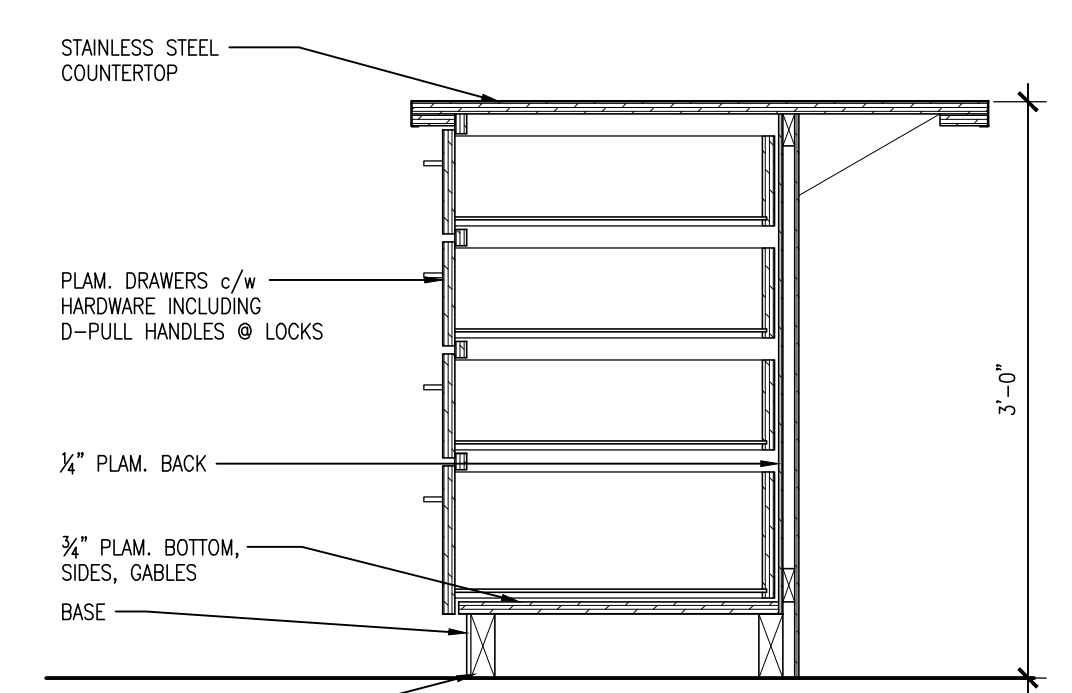
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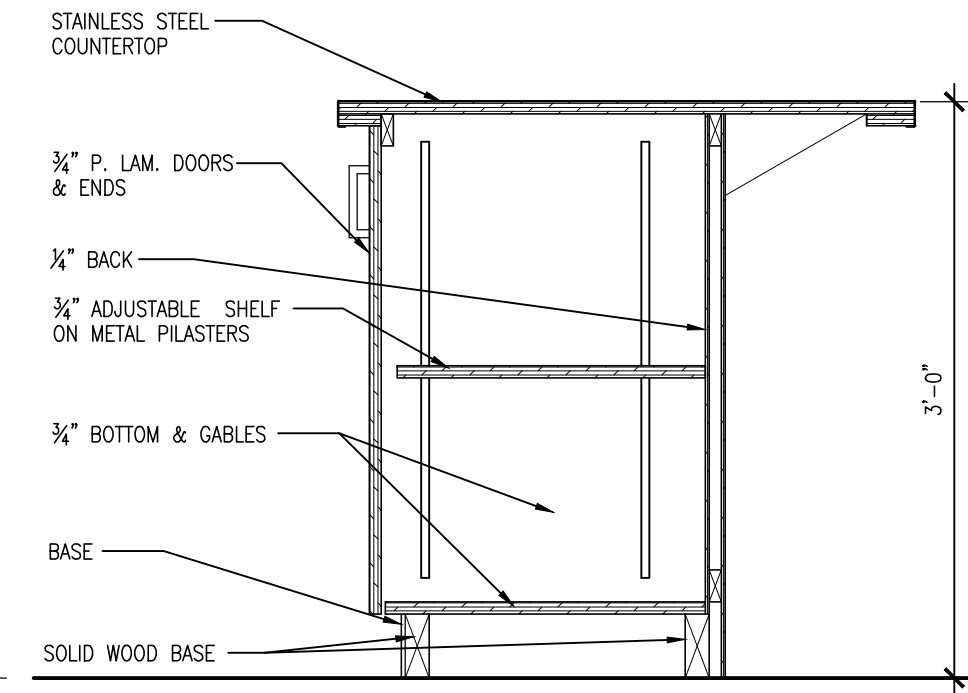
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6 MILLWORK SECTION
 A903 1" = 1'-0"



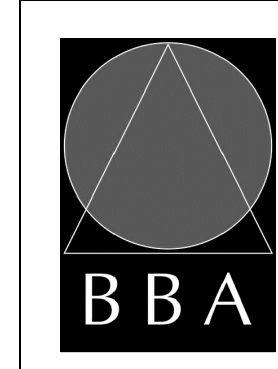
5 MILLWORK SECTION
 A903 1" = 1'-0"



3 MILLWORK SECTION
 A903 1" = 1'-0"

PROJECT:
INTERIOR ALTERATIONS TO EXISTING FIRE HALL
 553 KINGSTON ROAD,
 PICKERING, ONTARIO
 CITY OF PICKERING CULTURE
 & RECREATION DEPARTMENT

DRAWING:
DETAILS AND MILLWORK SECTIONS



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 % COMPLETE:
 CHECKED BY: INTAL
 DATE: JANUARY 2018
 SCALE: 1" = 1'-0"
 FILE:

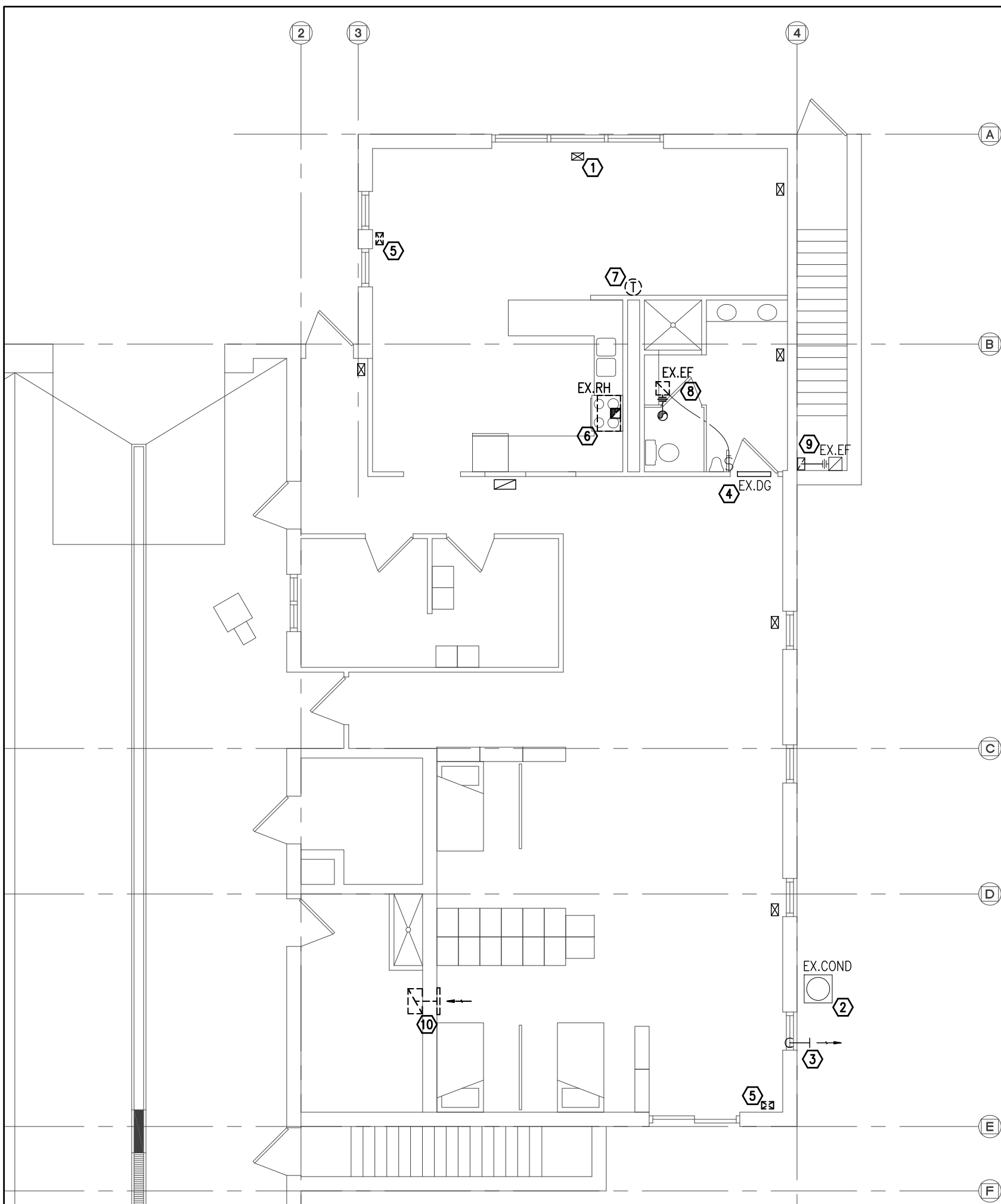
PROJECT NO: **17216**
 DRAWING NO: **A903**



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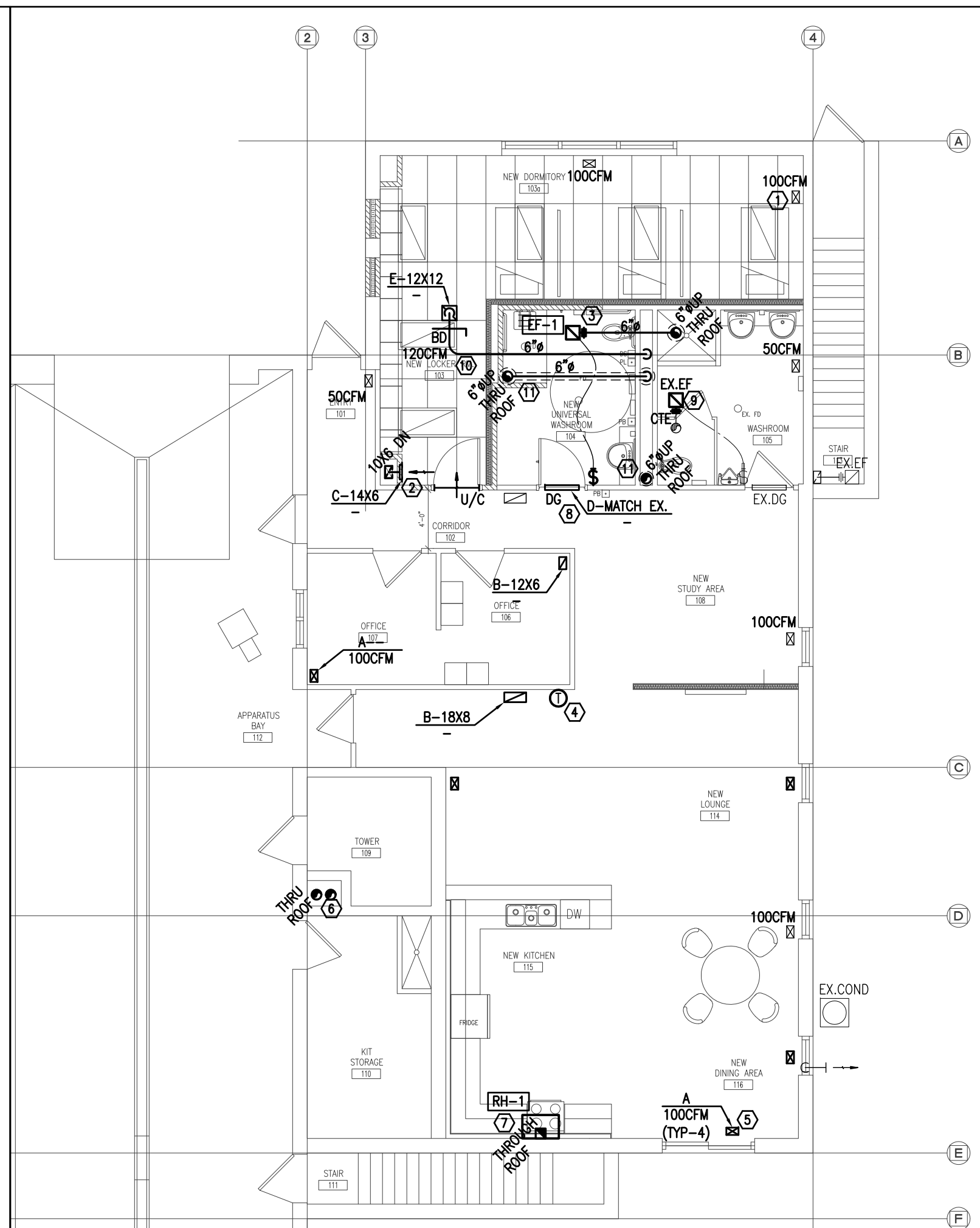
- GENERAL NOTES
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 - DO NOT SCALE DRAWINGS.

NO.	ISSUES	DATE	BY
01	ISSUED FOR REVIEW	20FEB2018	TP
02	ISSUED FOR CLIENT REVIEW	15MAR2018	TP
03	ISSUED FOR COORDINATION	05SEP2018	TP
04	ISSUED FOR TENDER	21SEP2018	TP
05	ISSUED FOR PERMIT	26SEP2018	TP
06	REVISED PER CITY COMMENTS	04JAN2019	TP
07	ISSUED FOR TENDER	14NOV2019	TP



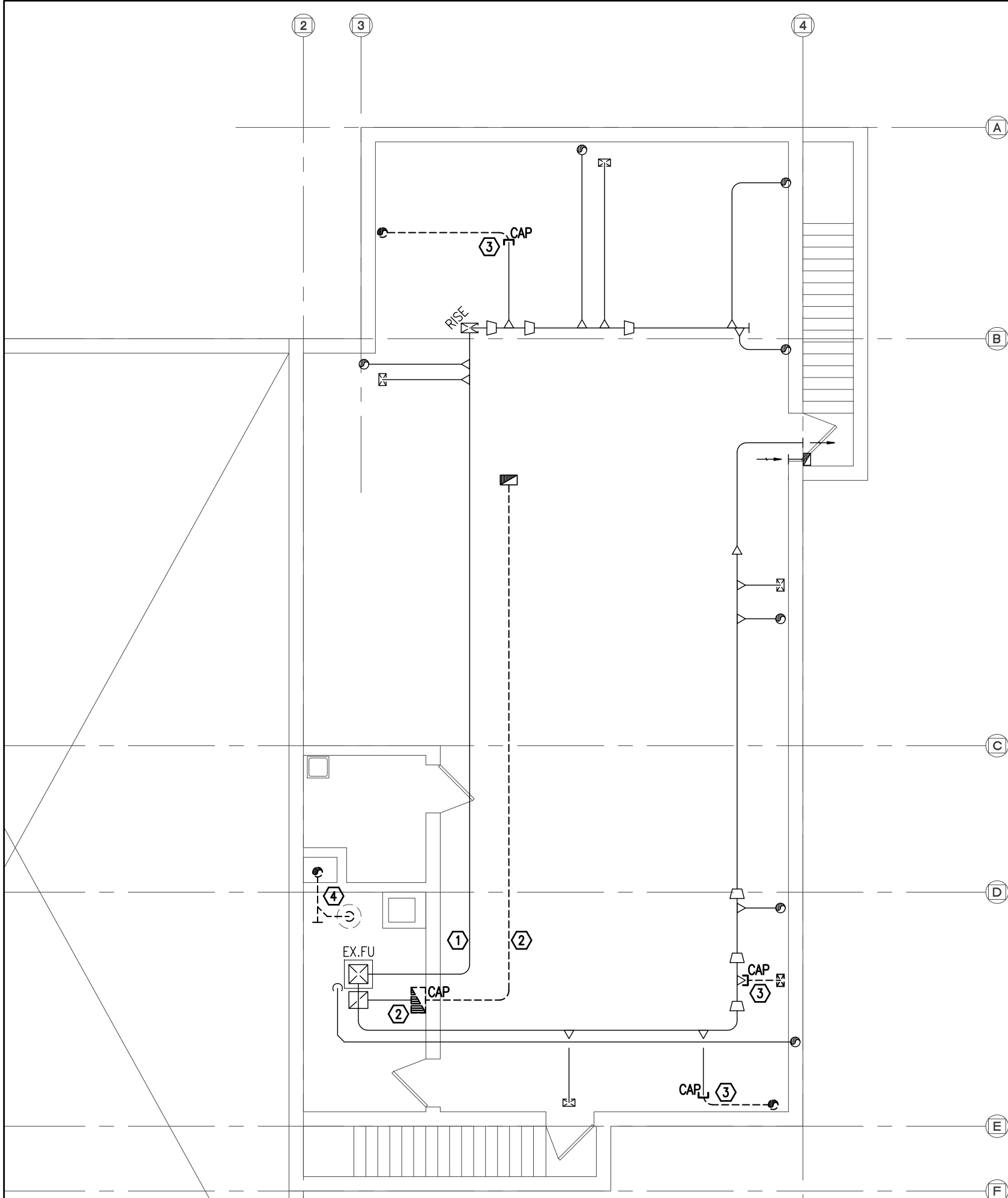
- HVAC DEMOLITION NOTES**
- EXISTING FLOOR-MOUNTED SUPPLY GRILLE TO REMAIN (TYPICAL).
 - EXISTING OUTDOOR CONDENSER UNIT TO REMAIN.
 - EXISTING FURNACE FLUE TO REMAIN.
 - EXISTING WASHROOM DOOR GRILLE TO REMAIN.
 - EXISTING FLOOR-MOUNTED SUPPLY GRILLE TO BE REMOVED. REFER TO DRAWING 1/M-1 FOR EXTENT OF HVAC DEMOLITION BELOW.
 - EXISTING RANGE HOOD AND ASSOCIATED DUCTWORK THROUGH ROOF TO BE REMOVED. PATCH AND SEAL ROOF OPENING TO MATCH BUILDING STANDARDS. ALL ROOFING WORK SHALL BE DONE BY LANDLORD-APPROVED ROOFING CONTRACTOR.
 - EXISTING FURNACE THERMOSTAT TO BE REMOVED AND RELOCATED AS INDICATED ON DRAWING 4/M-1.
 - EXISTING EXHAUST FAN IN EXISTING WASHROOM TO BE REMOVED AND REINSTALLED IN NEW CEILING. EXISTING SWITCH AND DUCT PENETRATION THROUGH ROOF TO REMAIN.
 - EXISTING EXHAUST FAN AND ASSOCIATED SWITCH AND DUCTWORK TO REMAIN.
 - EXISTING RETURN GRILLE AND DUCTWORK TO BE REMOVED. REFER TO DRAWING 1/M-1 FOR EXTENT OF HVAC DEMOLITION BELOW.
- GENERAL NOTES**
- CONTRACTOR SHALL VERIFY EXACT LOCATION AND SIZE OF EXISTING HVAC SYSTEM COMPONENTS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO ENGINEER.

3 PART GROUND FLOOR PLAN - HVAC DEMOLITION
1/8" = 1'-0"



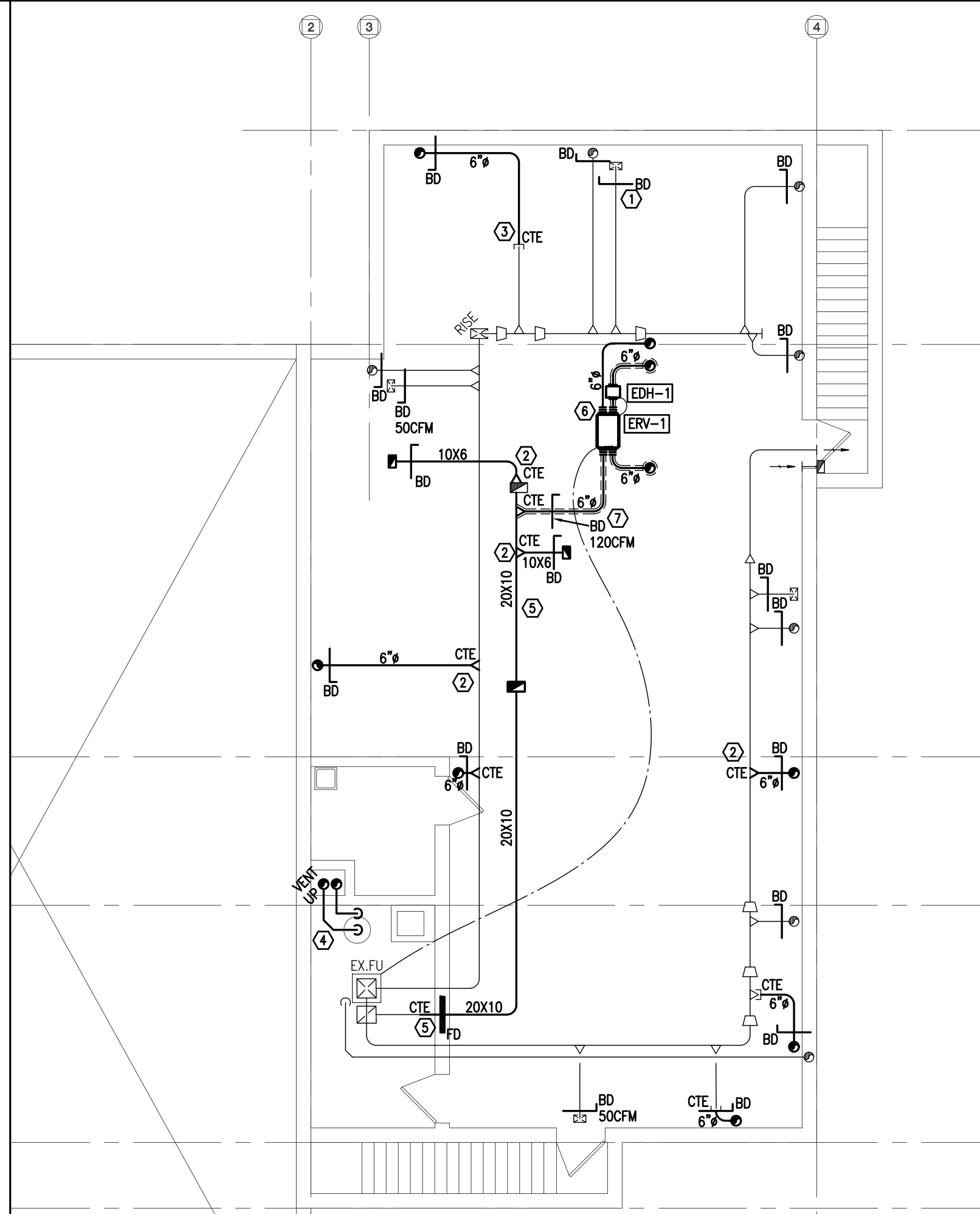
- HVAC DRAWING NOTES**
- REBALANCE EXISTING FLOOR-MOUNTED SUPPLY GRILLE AS INDICATED (TYPICAL).
 - PROVIDE NEW RETURN AIR GRILLE AND DUCTWORK AS INDICATED. REFER TO DRAWING 2/M-1 FOR EXTENT OF NEW HVAC WORK BELOW.
 - PROVIDE NEW EXHAUST FAN EF-1 WITH WALL SWITCH AS SPECIFIED. PROVIDE 6" ROUND DUCTWORK UP THROUGH ROOF C/W MANUFACTURER-SUPPLIED ROOF TERMINATION KIT. INSULATE LAST 10'-0" OF DUCTWORK AND MAKE PENETRATION WEATHER-TIGHT. ALL ROOFING WORK SHALL BE DONE BY LANDLORD-APPROVED ROOFING CONTRACTOR.
 - NEW LOCATION OF RELOCATED FURNACE THERMOSTAT. PROVIDE NEW CONTROL WIRING TO SUIT.
 - PROVIDE NEW FLOOR-MOUNTED GRILLE TO MATCH EXISTING AS SPECIFIED. BALANCE AS INDICATED (TYPICAL).
 - NEW HWI-1 FLUE AND COMB.AIR. TERMINATE THROUGH ROOF PER MANUFACTURER INSTRUCTIONS AND SEAL PENETRATION WEATHER-TIGHT. ALL ROOFING WORK SHALL BE DONE BY LANDLORD-APPROVED ROOFING CONTRACTOR.
 - PROVIDE NEW RANGE HOOD RH-1 ABOVE NEW RANGE AS SPECIFIED. TERMINATE DUCTWORK UP THROUGH ROOF PER MANUFACTURER INSTRUCTIONS. INSULATE LAST 10'-0" OF DUCTWORK AND SEAL PENETRATION WEATHER-TIGHT. ALL ROOFING WORK SHALL BE DONE BY LANDLORD-APPROVED ROOFING CONTRACTOR.
 - PROVIDE NEW DOORGRILLE IN WASHROOM DOOR TO MATCH EXISTING.
 - RE-INSTALL EXISTING EXHAUST FAN INSIDE NEW CEILING AT ORIGINAL LOCATION. REFER TO 3/M-1. CONNECT TO EXISTING ROOF PENETRATION AND SWITCH.
 - PROVIDE NEW EXHAUST DUCTWORK SERVING LOCKER ROOM 103 C/W DAMPERED GRILLE BALANCED AS INDICATED. DUCTWORK TO RUN IN CEILING SPACE AND DROP DOWN WITHIN CHASE DOWN TO BASEMENT TO ERV-1. REFER BASEMENT PLAN FOR CONTINUATION.
 - PROVIDE NEW INSULATED FRESH AIR AND EXHAUST DUCTWORK FOR ERV-1 IN BASEMENT. TERMINATE OUTDOOR AIR AND EXHAUST DUCTS THROUGH ROOF C/W GOOSENECK (MIN 18" ABOVE ROOF), BIRDSCREEN, AND BACKDRAFT DAMPERS. MAINTAIN 10'-0" CLEAR BETWEEN ALL EXHAUST OUTLETS AND FRESH AIR INLETS WHEN TERMINATING. COORDINATE TERMINATION LOCATIONS WITH EXISTING EXHAUST OUTLETS.

4 PART GROUND FLOOR PLAN - HVAC PLAN
1/8" = 1'-0"



- HVAC DEMOLITION NOTES**
- EXISTING MAIN SUPPLY DUCTWORK TO REMAIN (TYPICAL).
 - EXISTING RETURN AIR UP TO BE REMOVED AND CAPPED AT MAIN DUCTWORK. REMOVE PORTION OF EXISTING RETURN DUCTWORK AS INDICATED TO BE UP-SIZED.
 - EXISTING SUPPLY AIR SERVING GRILLE ABOVE TO BE REMOVED AND CAPPED AT TAKEOFF.
 - VENTING FOR EXISTING (REMOVED) HWI TO BE REMOVED COMPLETELY. PATCH AND SEAL BUILDING EXTERIOR PENETRATIONS ASSOCIATED WITH VENTING.
- GENERAL NOTES**
- CONTRACTOR SHALL VERIFY EXACT LOCATION AND SIZE OF EXISTING HVAC SYSTEM COMPONENTS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO ENGINEER.

1 PART BASEMENT FLOOR PLAN - HVAC DEMOLITION
1/8" = 1'-0"



- HVAC DRAWING NOTES**
- PROVIDE NEW BALANCING DAMPERS AT ALL SUPPLY/RETURN DUCTS UP TO FLOOR ABOVE. BALANCE AS INDICATED AT GRILLES ABOVE (TYPICAL).
 - PROVIDE NEW TAKEOFF FROM EXISTING SUPPLY/RETURN DUCTWORK AS INDICATED. PROVIDE BALANCING DAMPER AND DUCTWORK SIZED AS INDICATED.
 - PROVIDE NEW ROUND DUCTWORK C/W BALANCING DAMPER TO NEW LOCATION OF EXISTING GRILLE ABOVE. CONNECT BACK TO EXISTING TAKE-OFF (TYPICAL).
 - PROVIDE NEW VENTING AND COMBUSTION AIR PER HWI-1 MANUFACTURER'S INSTRUCTIONS. VENTING/COMBUSTION AIR SHALL TERMINATE AT LOCATIONS OF EXISTING REMOVED VENTING. PROVIDE NEUTRALIZATION KIT FOR FLUE CONDENSATE AND TERMINATE AT EXISTING FD IN MECHANICAL ROOM.
 - PROVIDE NEW RETURN AIR DUCTWORK SIZED AS INDICATED. PROVIDE NEW FIRE DAMPER AND MODIFY EXISTING OPENING TO SUIT NEW DUCT. CONNECT TO EXISTING IN MECHANICAL ROOM AND EXISTING RISER UP TO FLOOR ABOVE.
 - PROVIDE NEW ENERGY RECOVERY VENTILATOR ERV-1 C/W COMPLETE THERMALLY INSULATED DUCTWORK EXCEPT FOR INDOOR RETURN DUCTWORK AS INDICATED. PROVIDE ELECTRIC DUCT HEATER UPSTREAM OF ERV-1 ON INCOMING OUTDOOR AIR DUCTWORK AS SPECIFIED. INSTALL ERV-1 AND EDH-1 PER MANUFACTURER'S INSTRUCTIONS. REFER TO GROUND FLOOR PLAN FOR DUCT CONTINUATIONS.
 - FRESH AIR SUPPLY DUCTWORK SHALL TIE INTO FURNACE MAIN RETURN DUCTWORK. BALANCE AS INDICATED.

2 PART BASEMENT FLOOR PLAN - HVAC PLAN
1/8" = 1'-0"

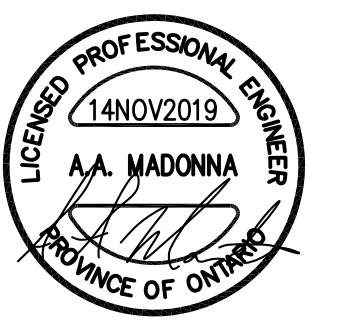
NO.	REVISIONS	DATE	BY
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PROJECT:
INTERIOR ALTERATIONS TO EXISTING FIRE HALL
553 KINGSTON ROAD,
PICKERING, ONTARIO
CITY OF PICKERING CULTURE & RECREATION DEPARTMENT

DRAWING:
MECHANICAL - HVAC



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DESIGN BY: TP
DRAWN BY: TP
CHECKED BY: AMM
DATE: 15 FEB 2018
SCALE: 1/8" = 1'-0"
FILE:

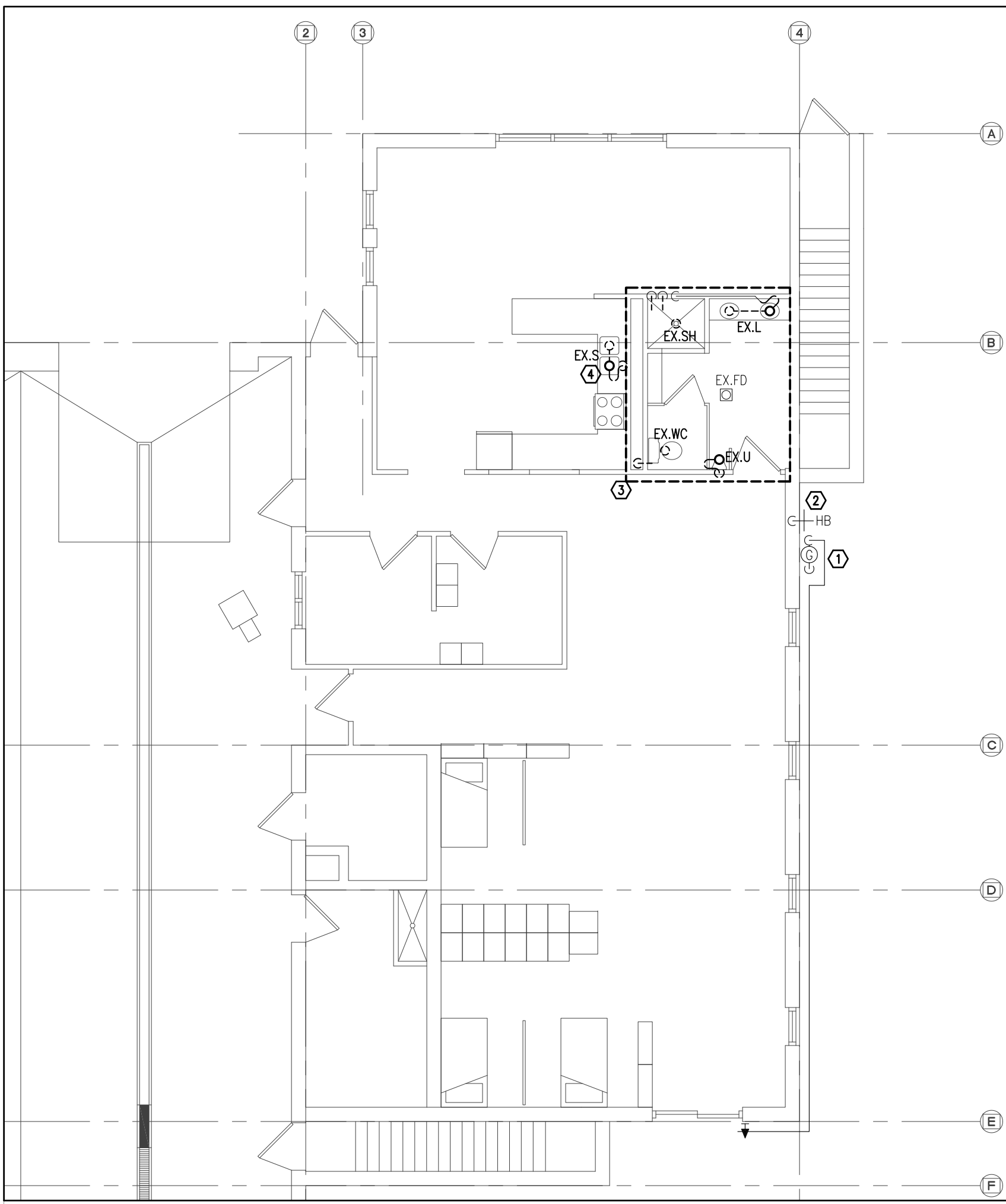
PROJECT NO: **17-0239**
DRAWING NO: **M-1**



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• DO NOT SCALE DRAWINGS.

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01	ISSUED FOR REVIEW	20FEB2018	TP
02	ISSUED FOR CLIENT REVIEW	15MAR2018	TP
03	ISSUED FOR COORDINATION	05SEP2018	TP
04	ISSUED FOR TENDER	21SEP2018	TP
05	ISSUED FOR PERMIT	26SEP2018	TP
06	REVISED PER CITY COMMENTS	04JAN2019	TP
07	ISSUED FOR TENDER	14NOV2019	TP



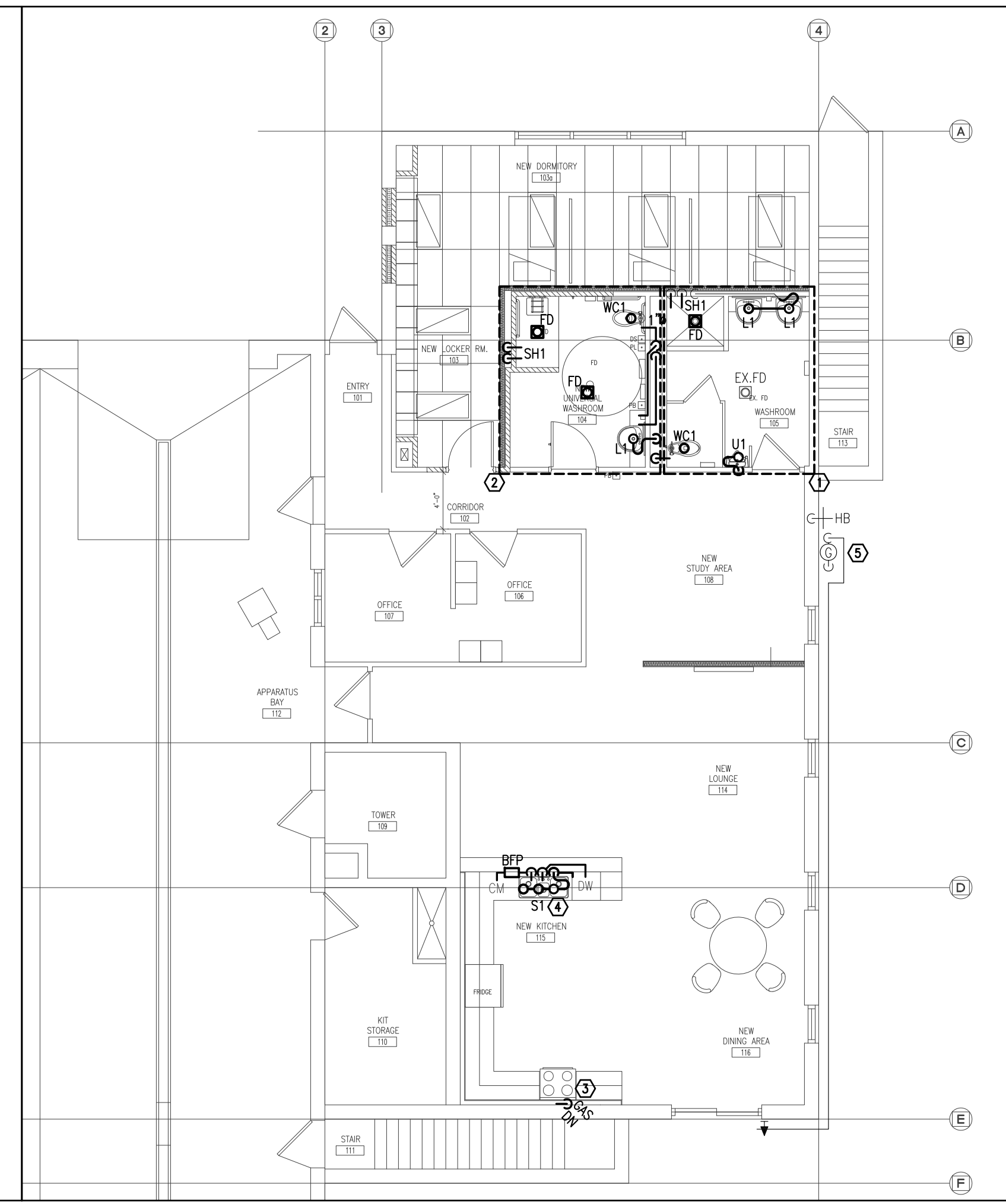
PLUMBING DEMOLITION NOTES

- EXISTING GAS METER AND ASSOCIATED GAS PIPING AT EXTERIOR OF BUILDING TO REMAIN.
- EXISTING HOSE-BIB ON EXTERIOR OF BUILDING TO REMAIN.
- FIXTURES IN EXISTING WASHROOM TO BE REMOVED AND REPLACED WITH NEW PER DRAWING 4/M-2. CUT BACK SERVICES TO ROUGH-INS FOR LATER USE. REFER TO DRAWING 1/M-2 FOR EXTENT OF PLUMBING DEMOLITION BELOW.
- EXISTING KITCHEN SINK TO BE REMOVED. REMOVE ASSOCIATED HOT AND COLD WATER PIPING AND ASSOCIATED SANITARY DRAINAGE AND VENTING.

GENERAL NOTES

- CONTRACTOR SHALL VERIFY EXACT LOCATION AND SIZE OF EXISTING PLUMBING AND DRAINAGE SERVICES PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO ENGINEER.

3 PART GROUND FLOOR PLAN - PLUMBING AND DRAINAGE DEMOLITION
1/8" = 1'-0"



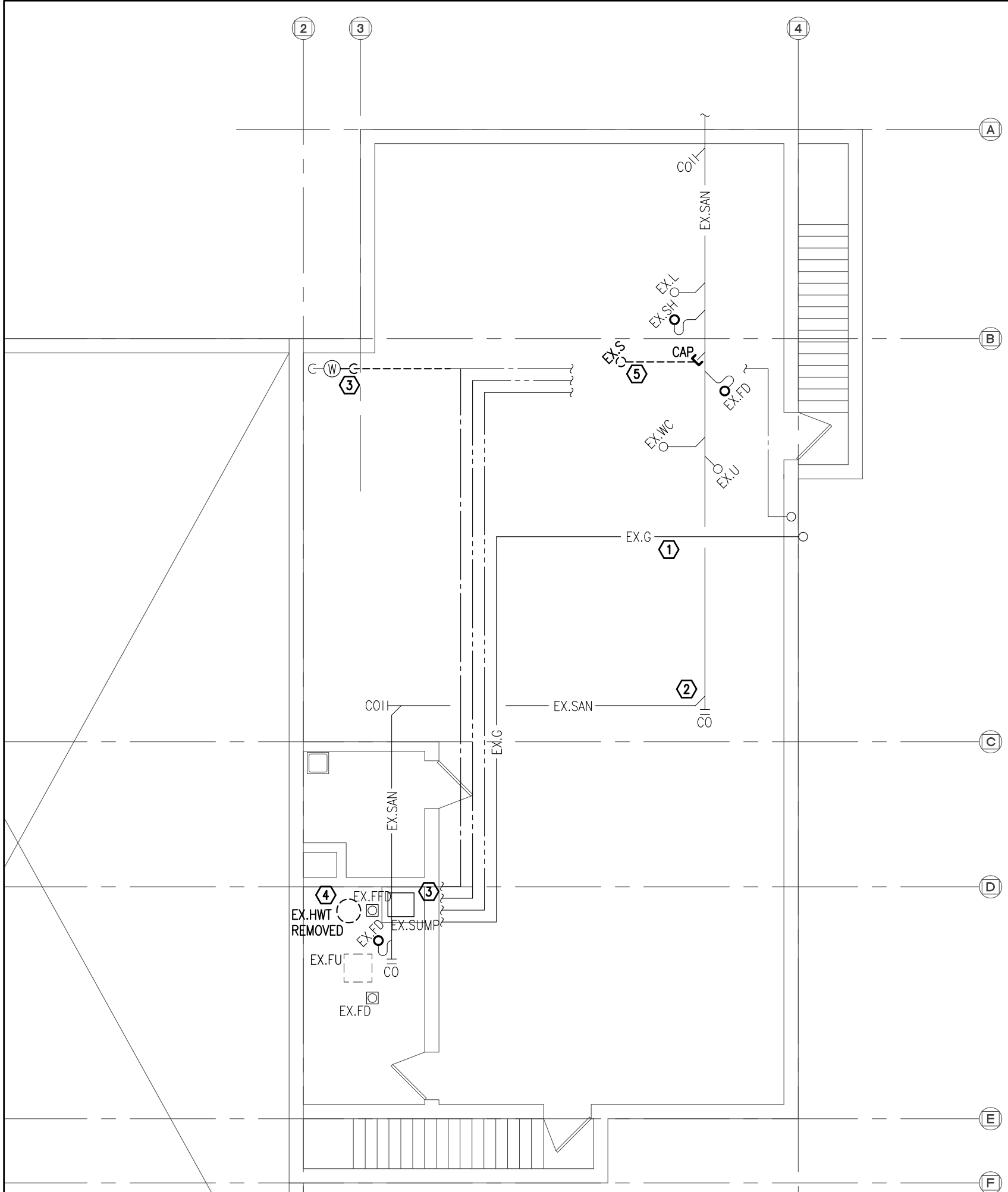
PLUMBING DRAWING NOTES

- PROVIDE NEW PLUMBING FIXTURES AS SPECIFIED AND CONNECT TO EXISTING ROUGH-INS WHERE INDICATED. REFER TO DRAWING 2/M-1 FOR NEW PLUMBING SERVICES FROM BELOW.
- PROVIDE NEW FIXTURES AND PLUMBING/DRAINAGE SERVICES TO NEW WASHROOM. REFER TO DRAWING 2/M-2 FOR EXTENT OF NEW PLUMBING WORK BELOW.
- NEW GAS PIPING FROM BELOW TO NEW GAS RANGE. REFER TO DRAWING 2/M-2 FOR GAS PIPING WORK BELOW.
- PROVIDE NEW KITCHEN SINK WITH 1/2" HW/CW PIPING AND 1-1/2" SANITARY DRAINAGE PIPING. PROVIDE 1/2" COLD WATER BRANCH 1/2" BACKFLOW PREVENTION DEVICE EQUAL TO WATTS MODEL SD-2 TO SERVE PLUMBED COFFEE MACHINE.
- CONTRACTOR SHALL VERIFY EXISTING GAS SERVICE IS SUFFICIENTLY SIZED AND METER CAN PROVIDE REQUIRED CAPACITY FOR NEW GAS LOADS TO BUILDING.

GENERAL NOTES

- THERMALLY INSULATE ALL PIPING AS PER THE "PIPING INSULATION SCHEDULE".
- PROVIDE ISOLATING VALVES ON MAIN AND/OR BRANCH LINES AND FOR ALL EQUIPMENT AND FIXTURES SERVED WITH HOT AND COLD WATER LINES. ALL VALVES SHALL BE SUITABLE FOR THE OPERATING PRESSURE OF THE SYSTEM IN WHICH THEY ARE INSTALLED.
- PROVIDE ADEQUATE ACCESS TO ALL SHUT-OFF VALVES AND CLEANOUTS.
- PROVIDE ALL CLEAN-OUTS AND VENTING SYSTEMS TO COMPLY WITH THE "ONTARIO BUILDING CODE", PART 7 AND LOCAL BY-LAWS.
- ALL FLOOR OPENINGS AND BASE BUILDING WALL OPENINGS SHALL BE PERFORMED BY BASE BUILDING CONTRACTOR.

4 PART GROUND FLOOR PLAN - PLUMBING AND DRAINAGE PLAN
1/8" = 1'-0"



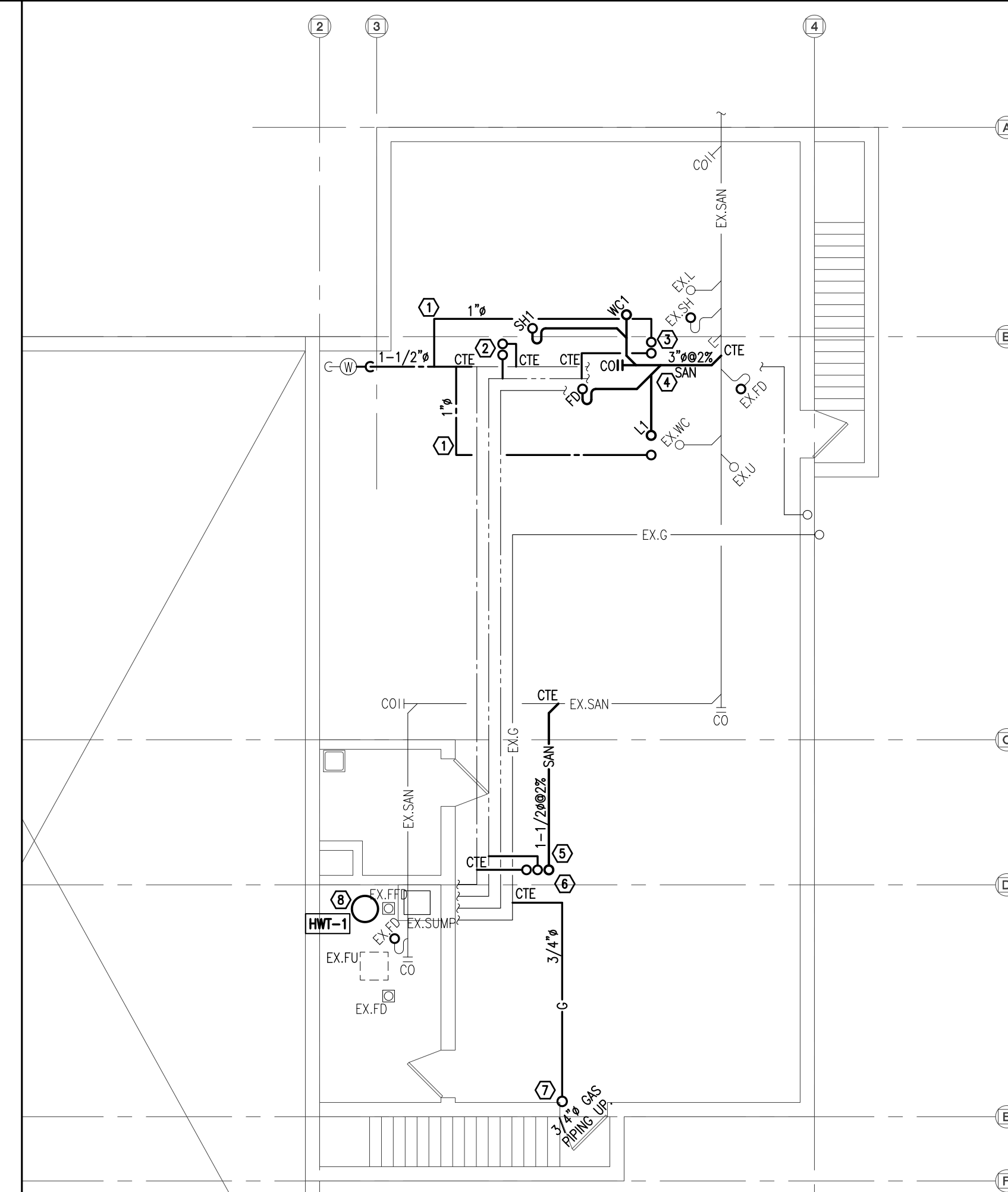
PLUMBING DEMOLITION NOTES

- EXISTING GAS PIPING TO REMAIN. CONTRACTOR TO VERIFY MAIN IS MINIMUM 1". REPORT ANY DISCREPANCIES TO ENGINEER (TYPICAL).
- EXISTING SANITARY PIPING AND SUMP PIT TO REMAIN (TYPICAL).
- EXISTING DOMESTIC WATER METER TO REMAIN. REMOVE EXISTING COLD WATER PIPING UP TO SPLIT AS SHOWN. REST TO REMAIN (TYPICAL).
- DISCONNECT AND REMOVE EXISTING GAS HW. DISCONNECT GAS AND CW/HW PIPING AND CAP SERVICES IN MECHANICAL ROOM FOR FUTURE CONNECTION TO NEW HW.
- SANITARY SERVICE FOR EXISTING KITCHEN SINK ABOVE TO BE REMOVED AND CAPPED AT MAIN AS INDICATED. SEAL FLOOR PENETRATION TO MATCH BUILDING STANDARDS.

GENERAL NOTES

- CONTRACTOR SHALL VERIFY EXACT LOCATION AND SIZE OF EXISTING PLUMBING AND DRAINAGE SERVICES PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO ENGINEER.

1 PART BASEMENT FLOOR PLAN - PLUMBING AND DRAINAGE DEMOLITION
1/8" = 1'-0"



PLUMBING DRAWING NOTES

- PROVIDE NEW 1-1/2" COLD WATER PIPING FROM WATER METER AND CONNECT TO EXISTING. PROVIDE 1" BRANCHES AS INDICATED TO SERVE FLUSH VALVE TOILETS ABOVE.
- PROVIDE NEW 1/2" CW/HW PIPING UP TO SERVE NEW SHOWER ABOVE.
- 1" CW AND 1/2" HW PIPING UP TO SERVE WASHROOM ABOVE.
- PROVIDE NEW 3" SANITARY PIPING TO RECEIVE DRAINAGE FROM NEW WASHROOM FIXTURES ABOVE. CONNECT TO EXISTING SANITARY PIPING.
- PROVIDE NEW 1-1/2" SANITARY PIPING TO RECEIVE DRAINAGE FROM NEW KITCHEN FIXTURES ABOVE. CONNECT TO EXISTING SANITARY PIPING.
- PROVIDE NEW 1/2" CW/HW PIPING UP TO SERVE NEW KITCHEN ABOVE.
- PROVIDE NEW 3/4" GAS PIPING UP TO NEW GAS RANGE ABOVE. CONNECT TO EXISTING GAS PIPING.
- PROVIDE NEW GAS-FIRED DOMESTIC WATER HEATER HW1-1 IN MECHANICAL ROOM AS SPECIFIED. CONNECT TO CAPPED CONNECTIONS FROM EXISTING HW. PROVIDE ISOLATION VALVES AT ALL EQUIPMENT CONNECTIONS.

GENERAL NOTES

- THERMALLY INSULATE ALL PIPING AS PER THE "PIPING INSULATION SCHEDULE".
- PROVIDE ISOLATING VALVES ON MAIN AND/OR BRANCH LINES AND FOR ALL EQUIPMENT AND FIXTURES SERVED WITH HOT AND COLD WATER LINES. ALL VALVES SHALL BE SUITABLE FOR THE OPERATING PRESSURE OF THE SYSTEM IN WHICH THEY ARE INSTALLED.
- PROVIDE ADEQUATE ACCESS TO ALL SHUT-OFF VALVES AND CLEANOUTS.
- PROVIDE ALL CLEAN-OUTS AND VENTING SYSTEMS TO COMPLY WITH THE "ONTARIO BUILDING CODE", PART 7 AND LOCAL BY-LAWS.
- ALL FLOOR OPENINGS AND BASE BUILDING WALL OPENINGS SHALL BE PERFORMED BY BASE BUILDING CONTRACTOR.

2 PART BASEMENT FLOOR PLAN - PLUMBING AND DRAINAGE PLAN
1/8" = 1'-0"

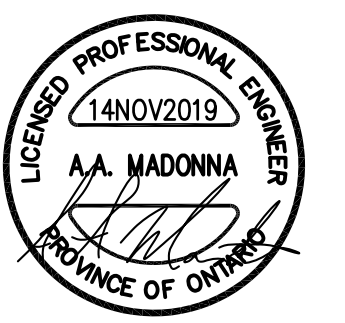
NO.	REVISIONS	DATE	BY

PROJECT:
INTERIOR ALTERATIONS TO EXISTING FIRE HALL
553 KINGSTON ROAD,
PICKERING, ONTARIO
CITY OF PICKERING CULTURE & RECREATION DEPARTMENT

DRAWING:
MECHANICAL - PLUMBING AND DRAINAGE



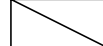

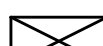








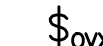


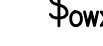




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DESIGN BY: TP
DRAWN BY: TP
CHECKED BY: AMM
DATE: 15 FEB 2018
SCALE: 1/8" = 1'-0"
FILE:

PROJECT NO: **17-0239**
DRAWING NO: **M-2**

LEGEND

	EXISTING CEILING MOUNTED/SUSPENDED FIXTURE CONNECTED TO BASE BUILDING UTILITY LIGHTING CIRCUIT.
	EXISTING CEILING MOUNTED/SUSPENDED FIXTURE CONNECTED TO NON-SWITCHED 24-HOUR NIGHT LIGHTING CIRCUIT.
	CEILING MOUNTED/SUSPENDED FIXTURE. CONNECT TO BASE BUILDING UTILITY LIGHTING CIRCUIT.
	CEILING MOUNTED/SUSPENDED FIXTURE. CONNECT TO NON-SWITCHED 24 HOUR NIGHT LIGHTING CIRCUIT.
	RECESSED/PENDANT MOUNTED DOWNLIGHT. CONNECT TO BASE BUILDING UTILITY LIGHTING CIRCUIT.
	RECESSED/PENDANT MOUNTED DOWNLIGHT. CONNECT TO NON-SWITCHED 24 HOUR NIGHT LIGHTING CIRCUIT.
	WALL MOUNTED LIGHT FIXTURE. CONNECT TO UTILITY LIGHTING CIRCUIT.
	EMERGENCY BATTERY UNIT, TYPE 'D1', SOURCE 'M1'. BATTERY SHALL BE MOUNTED AT HIGH LEVEL.
	REMOTE EMERGENCY LIGHTING FIXTURE, TYPE 'D2' FED FROM SOURCE 'M2'.
	WHITE DECORA STYLE LIGHT SWITCH, VOLTAGE AND CURRENT RATINGS AS REQUIRED.
	WALL MOUNTED ROOM LIGHT SWITCH WATT STOPPER LMSW-10X. 'OV1' DENOTES ONE (1) DIGITAL PUSH BUTTON. 'OV2' DENOTES TWO (2) DIGITAL PUSH BUTTONS. 'OV3' DENOTES THREE (3) DIGITAL PUSH BUTTONS. 'OV4' DENOTES FOUR (4) DIGITAL PUSH BUTTONS.
	WALL MOUNTED AREA LIGHT SWITCH WATT STOPPER LMSW-10X. 'OW2' DENOTES TWO (2) DIGITAL PUSH BUTTONS. 'OW3' DENOTES THREE (3) DIGITAL PUSH BUTTONS. 'OW4' DENOTES FOUR (4) DIGITAL PUSH BUTTONS. 'OW5' DENOTES FIVE (5) DIGITAL PUSH BUTTONS. 'OW6' DENOTES SIX (6) DIGITAL PUSH BUTTONS.
	20A/120V DUPLEX RECEPTACLE, CSA 5-20R (T-SLOT). 'IG' DENOTES ISOLATED GROUND. PROVIDE GROUND WIRE BACK TO PANEL.
	15AMP/120VOLT, U-GROUND DUPLEX RECEPTACLE, TAMPER RESISTANT TYPE, WALL MOUNTED. GFI DENOTES OUTLET C/W GROUND FAULT INTERRUPT PROTECTION.
	DIRECT CONNECTION.
	STARTER.
	NON-FUSED HORSEPOWER RATED VISIBLE BLADE HEAVY DUTY DISCONNECT SWITCH C/W PADLOCK PROVISION IN OFF POSITION
	VISIBLE BLADE HEAVY DUTY DISCONNECT SWITCH C/W PADLOCK PROVISION IN OFF POSITION FUSED AT '15A'
	VISIBLE BLADE HEAVY DUTY RATED COMBINATION STARTER C/W FUSES, OVERLOAD PROTECTION, CONTROL TRANSFORMER, 2 NO AND 2 NC CONTACTS, PILOT LIGHT AND HOA. FUSED AT '15A'.
RP-A-X(D)	CIRCUIT 'X' FED FROM RECEPTACLE PANEL 'A'. '(D)' DENOTES DESIGNATED CIRCUIT FOR ISOLATED GROUND DUPLEX RECEPTACLE.
RP-A-X(D)	EXISTING CIRCUIT 'X' FED FROM RECEPTACLE PANEL 'A'. '(D)' DENOTES DESIGNATED CIRCUIT FOR ISOLATED GROUND DUPLEX RECEPTACLE.
SW 2E2	DENOTES LOW VOLTAGE DIGITAL LIGHT SWITCH LV#2E SWITCHING LEG 2
E	INDICATES EXISTING DEVICE TO REMAIN.
ER	INDICATES EXISTING DEVICE TO BE REMOVED. REMOVE CONDUIT AND WIRE BACK TO SOURCE.
R	DENOTES EXISTING DEVICE IN RELOCATED POSITION. PROVIDE CONDUIT AND WIRE BACK TO SOURCE.
RE	DENOTES EXISTING DEVICE TO REMAIN. RECIRCUIT AS SHOWN. REMOVE EXISTING CONDUIT AND WIRE BACK TO EXISTING SOURCE. PROVIDE NEW CONDUIT AND WIRE BACK TO NEW SOURCE.
RM	DENOTES ROOF MOUNTED
CL	DENOTES CEILING MOUNTED
CK	DENOTES CLOCK STYLE RECEPTACLE
▼	4" SQUARE BACKBOX C/W SINGLE DEVICE COVER (PLASTER RING) AND 3/4" EMPTY ZONE CONDUIT ASSEMBLY FOR COMMUNICATIONS CONTRACTOR'S USE. PROVIDE A PULL STRING IN CONDUIT.

	4" SQUARE DEEP BACKBOX C/W COVER PLATE AND 1 1/2" ZONE CONDUIT SYSTEM C/W PULLSTRING FOR A/V CONTRACTOR'S USE
	4" SQUARE DEEP BACKBOX C/W COVER PLATE AND 1 1/2" ZONE CONDUIT SYSTEM C/W PULLSTRING FOR A/V CONTRACTOR'S USE
	HANDICAP WAVE SENSOR C/W CONDUIT AND WIRES
	DURESS SYSTEM COMBINATION STROBE LIGHT/HORN.
	DURESS SYSTEM STATION.
	DIGITAL ON/OFF/DIMMING ROOM CONTROLLER WATT STOPPER LMRC-212/LMRC-212-347 (VOLTAGE RATING AS REQUIRED TO SUIT LIGHTING LOAD)
	OPEN OFFICE AREA CEILING MOUNTED OCCUPANCY SENSOR WATT STOPPER LMDC-100. SENSOR PRESET AT 20 MINUTE TIME OUT SETTING C/W MANUAL ON AND AUTO OFF AND DEFAULT DETECTION TECHNOLOGY SETTING.
	NON-SWITCHED CORRIDOR CEILING MOUNTED OCCUPANCY SENSOR WATT STOPPER LMDC-100. SENSOR PRESET AT 20 MINUTE TIME OUT SETTING C/W AUTO ON AND AUTO OFF WALK THROUGH MODE ON AND DEFAULT SETTING.
	PHOTOCELL SENSOR (VOLTAGE RATINGS TO SUIT LIGHTING LOADS) SUITABLE FOR COLD WEATHER OPERATION. PRESET SENSOR AT 10FC.
	EXISTING SMOKE ALARM
	STANDALONE PHOTOELECTRIC SMOKE ALARM WITH STROBE LIGHT, 120V WITH BATTERY BACKUP C/W BATTERY. BRK ELECTRONICS 7010BSLA ULC LISTED.
	CEILING MOUNTED PAGING SYSTEM SPEAKER ROUGH-IN.

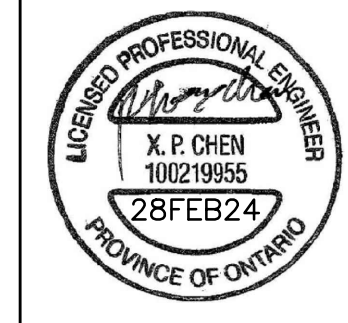
1. SUBSTITUTES ARE NOT PERMITTED FOR ALL SPECIFIED PRODUCTS.
2. SHOP DRAWINGS ARE REQUIRED FOR ALL PRODUCTS SPECIFIED FOR THIS PROJECT INCLUDING BUT NOT LIMITED TO LIGHTING CONTROL, RECEPTACLE PANELS, LIGHTING FIXTURES, SWITCHES, RECEPTACLES, COVER PLATES AND DIMMERS.
3. ELECTRICAL CONTRACTOR AND ALL SUBCONTRACTORS MUST READ AND COMPLY WITH ELECTRICAL SPECIFICATIONS (ISSUED AS A SEPARATE DOCUMENT).
4. CIRCUITING MUST BE COMPLETED AS SHOWN ON DRAWINGS. DO NOT CHANGE CIRCUIT NUMBERS.
5. INSTALLATION AND MANUFACTURING OF ALL DEVICES AND SERVICES INCLUDING DISTRIBUTION, LIGHT FIXTURES, FEEDERS, BRANCH CIRCUITS, VARIOUS SYSTEMS, ETC. MUST COMPLY WITH ALL LOCAL SEISMIC RESTRAINT REQUIREMENTS.
6. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, MOUNTING HEIGHTS, CONSTRUCTION DETAILS, LOCATION OF LIGHT FIXTURES, FINISHES AND COLOURS.
7. REFER TO LANDLORD'S MOST CURRENT VERSION OF THE LEASEHOLD IMPROVEMENT MANUAL FOR ADDITIONAL REQUIREMENTS (INCLUDING RISER ACCESS REQUIREMENTS AND REVIEW FEES) OVER AND ABOVE THOSE DETAILED IN THIS DRAWING PACKAGE AND IN THE ELECTRICAL SPECIFICATIONS BOOK. CONTRACTOR SHALL BE RESPONSIBLE FOR AND MUST INCLUDE IN BASE BID PRICE FOR ALL SCOPES OF WORK DETAILED IN THE LANDLORD'S DESIGN CRITERIA MANUAL, ELECTRICAL DRAWINGS AND ELECTRICAL SPECIFICATIONS BOOK.
8. AS BUILT DRAWING REQUIREMENTS: AS BUILT DRAWINGS TO BE PREPARED AND SUBMITTED IN AUTOCAD FORMAT BY THE ELECTRICAL CONTRACTOR.
 - ALL DEMOLITION SCOPES OF WORK ARE TO BE ERASED FROM AS BUILT DRAWINGS.
 - ROUTING OF ALL FEEDERS, BRANCH WIRING (LIGHTING, EMERGENCY LIGHTING, POWER, ETC), LOW VOLTAGE WIRING, MISCELLANEOUS SYSTEMS WIRING, MISCELLANEOUS CONDUIT SYSTEMS, ETC, TO BE SHOWN ON AS BUILT DRAWINGS. REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
9. REMOVAL AND REINSTALLATION OF CEILING TILES IN OCCUPIED AREAS TO ACCOMMODATE ALL SCOPES OF WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
10. ALL PANEL SCHEDULE DIRECTORIES MUST BE UPDATED WITH TYPEWRITTEN PANEL SCHEDULES. KROY TAPE MUST BE USED FOR ALL LABELING AT ALL OUTLETS AND LAMACOIDS FOR ENCLOSURES.
11. THE CONTRACTOR MUST ENSURE THAT FIRESTOPPING AND SEALANTS ARE INSTALLED AT NEW FLOOR OPENINGS IN ACCORDANCE WITH THE CURRENT FIRE CODE REQUIREMENTS AND TO PREVENT WATER LEAKAGE TO THE FLOORS BELOW. AREAS PRONE TO WATER LEAKAGE ARE TO BE WATERPROOFED PRIOR TO INSTALLATION OF THE TENANT FLOOR COVERINGS. THE OWNER WILL APPROVE THE PROPOSED WATERPROOFING METHOD PRIOR TO THE TENANT PROCEEDING WITH CONSTRUCTION.

DRAWING LIST

- E-1.1 - ELECTRICAL LEGEND AND DETAILS
- E-1.2 - ELECTRICAL DETAILS
- E-1.3 - ELECTRICAL DETAILS
- E-2.1 - ELECTRICAL PLAN - GROUND FLOOR
- E-3.1 - REFLECTED CEILING PLANS
- E-5.1 - ELECTRICAL DEMOLITION PLAN - GROUND FLOOR
- E-6.1 - REFLECTED CEILING DEMOLITION PLANS
- E-7.1 - ELECTRICAL SINGLE LINE DIAGRAM

CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
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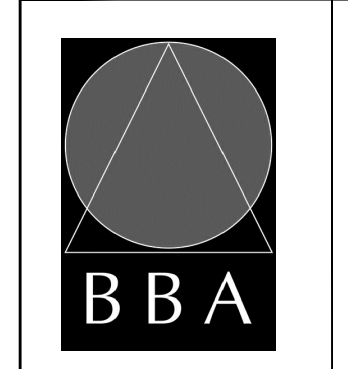


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PROJECT:
INTERIOR ALTERATIONS TO EXISTING FIRE HALL
 553 KINGSTON ROAD,
 PICKERING, ONTARIO
 CITY OF PICKERING CULTURE
 & RECREATION DEPARTMENT

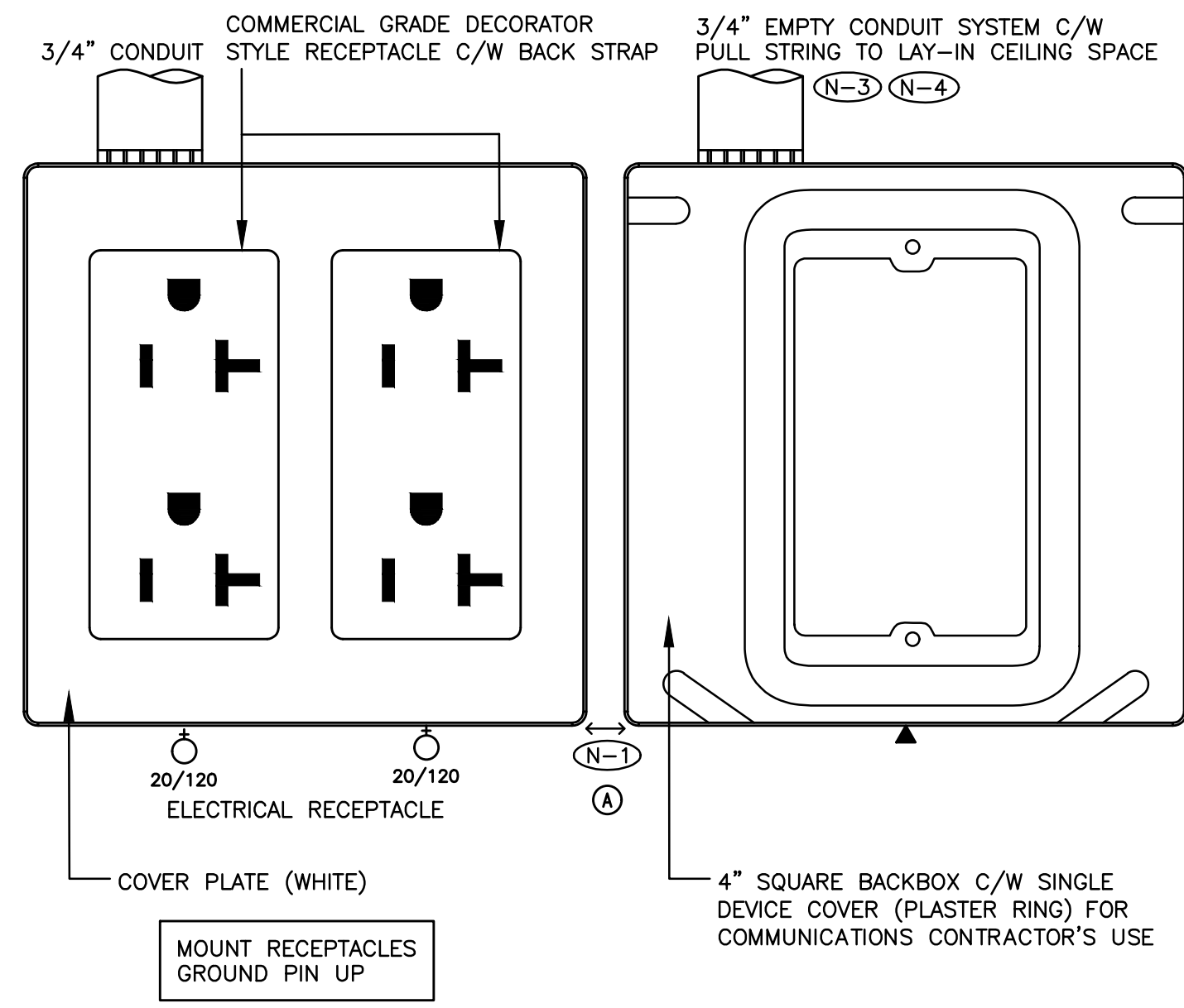
DRAWING:
ELECTRICAL LEGEND AND DETAILS



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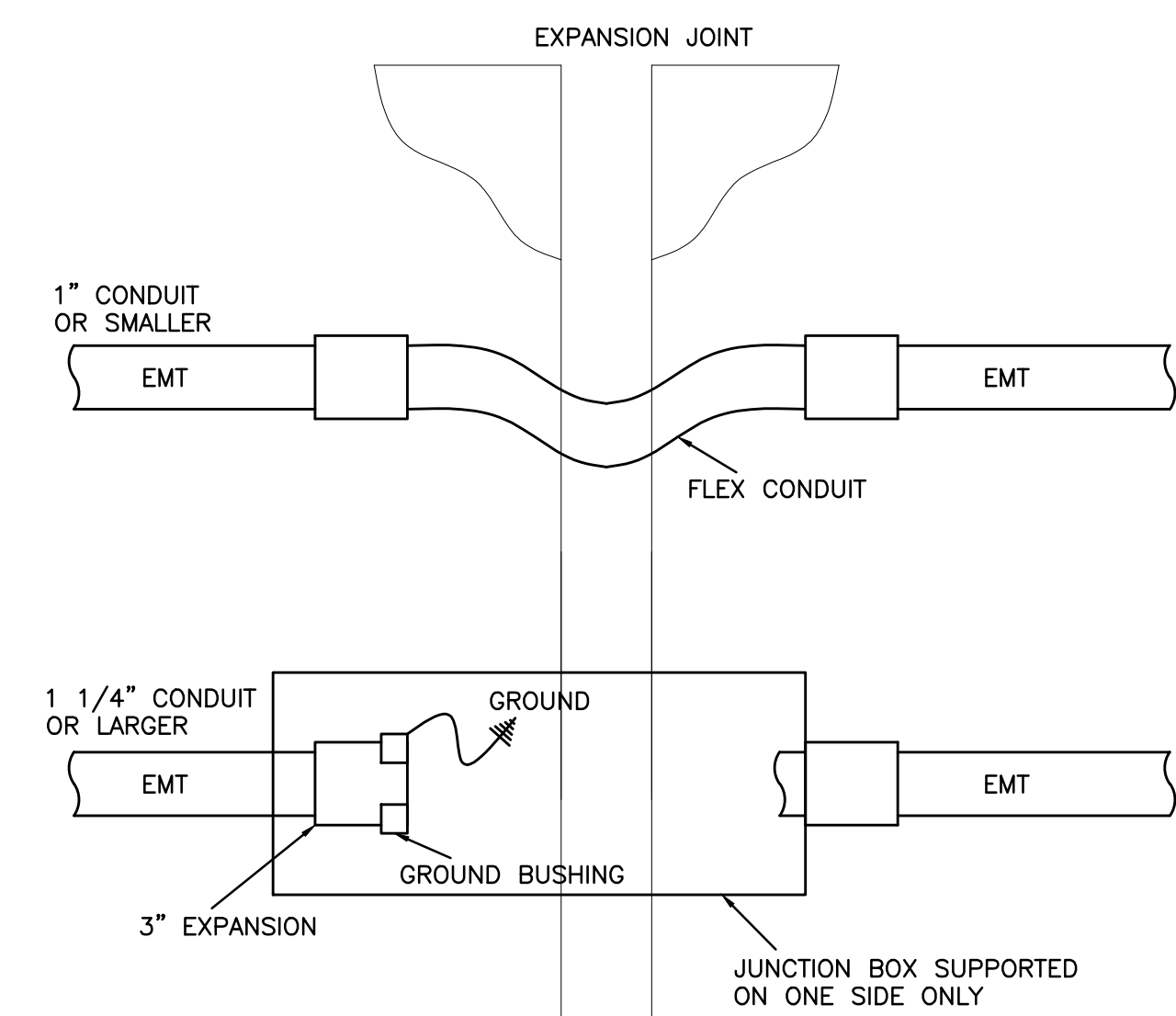
PROJECT NO: **17264** DRAWING NO: **E-1.1**



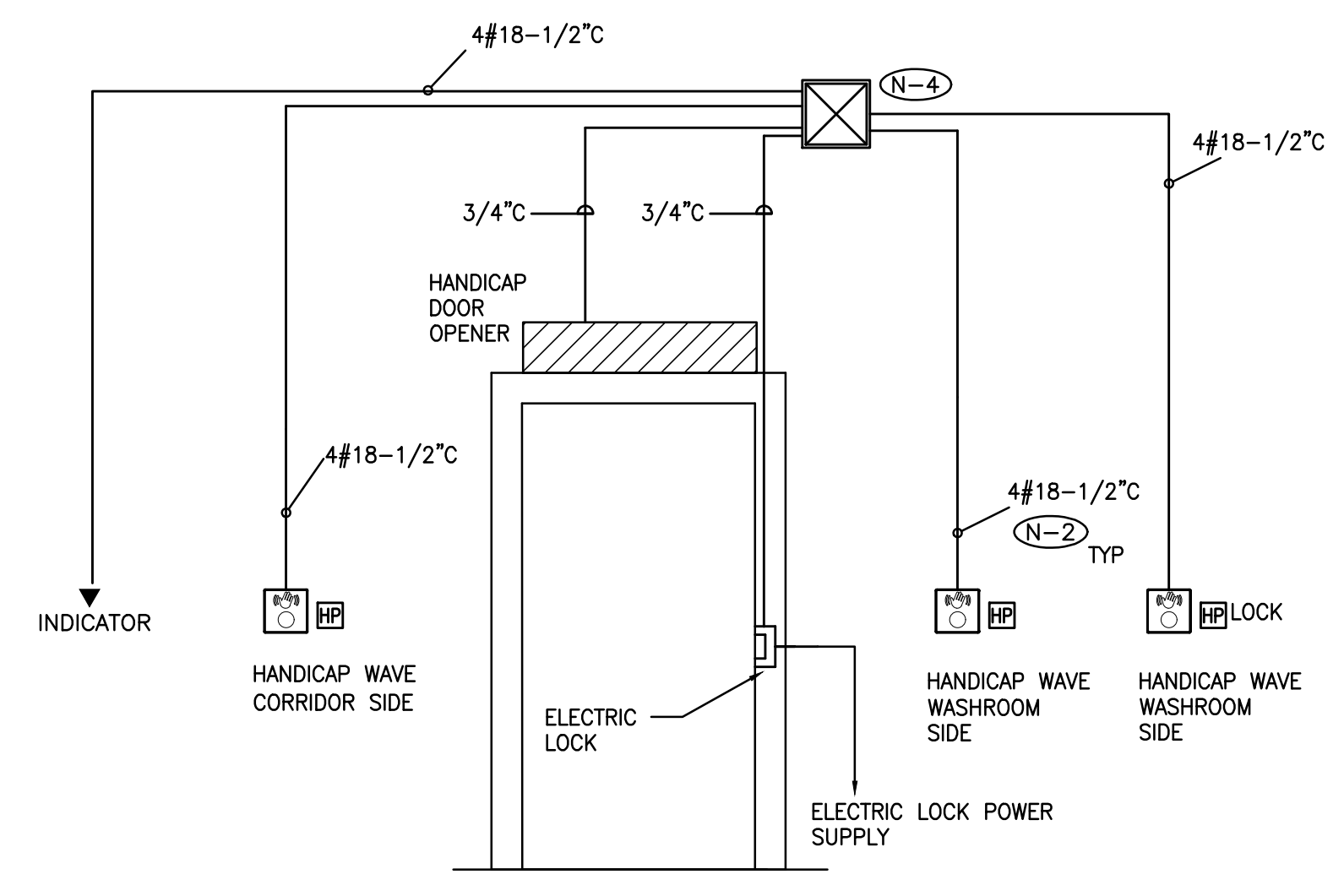
- (N-1) MINIMUM CLEARANCE.
- (N-2) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS. UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.
- (N-3) PROVIDE PUNCH OUTS IN BACKBOX TO ACCOMMODATE CONDUITS INDICATED.
- (N-4) TERMINATE CONDUIT WITH A 90 DEGREE BEND AND PLASTIC BUSHING IN THE ACCESSIBLE CEILING SPACE.

EPS CCT - WHITE RECEPTACLE

1 TYPICAL WALL MOUNTED DEVICE DETAIL
E-1.2 SCALE: NTS

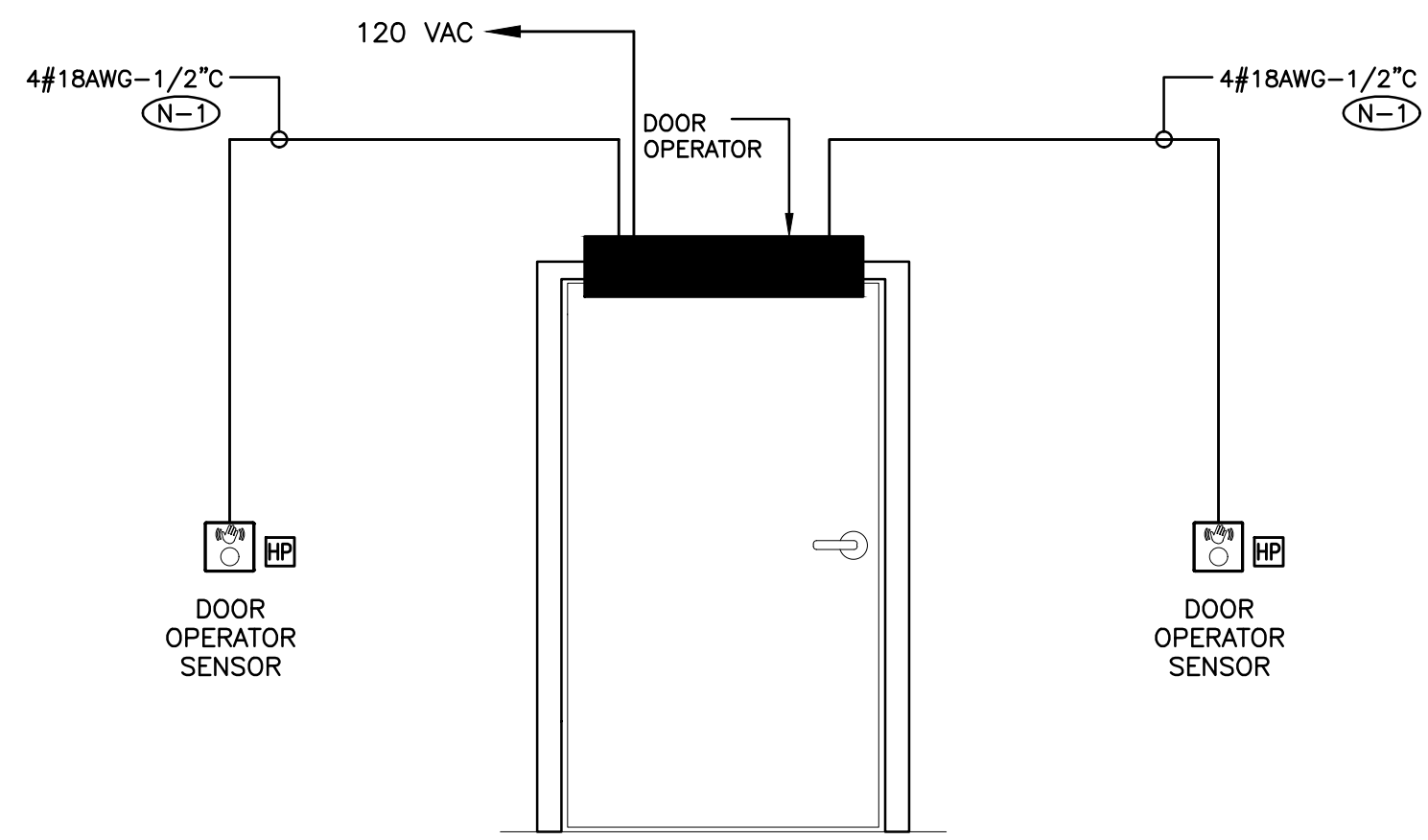


2 EXPANSION JOINT CROSSING DETAIL
E-1.2 SCALE: NTS



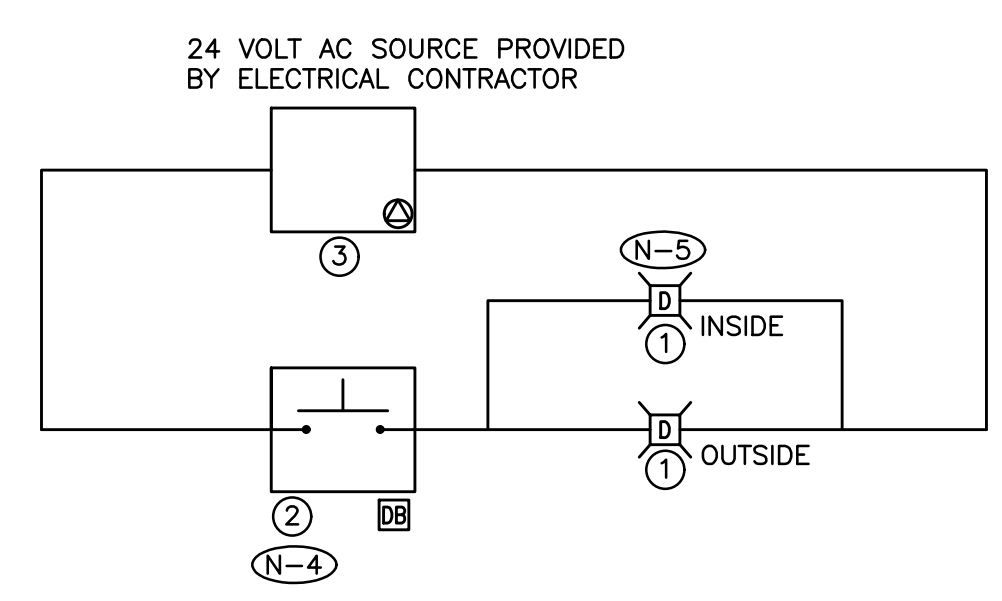
- (N-1) ROUGH-IN DETAILS ARE DIAGRAMMATIC.
- (N-2) PROVIDE WIRE, CONDUIT AND BACKBOXES INDICATED.
- (N-3) COORDINATE THE ROUGH-IN REQUIREMENT WITH DOOR MANUFACTURER AND DOOR OPERATOR CONTRACTOR PRIOR TO CONSTRUCTION.
- (N-4) PULLBOX INDICATED MUST BE LOCATED AT THE SECURED SIDE OF THE DOOR. MINIMUM PULLBOX SIZE 12" X 12".

3 ELECTRONIC DOOR LOCK ROUGH-IN DETAIL
E-1.2 SCALE: NTS



- (N-1) PROVIDE WIRE, CONDUIT AND BACKBOXES INDICATED.
- (N-2) COORDINATE THE ROUGH-IN REQUIREMENT WITH DOOR MANUFACTURER PRIOR TO CONSTRUCTION.

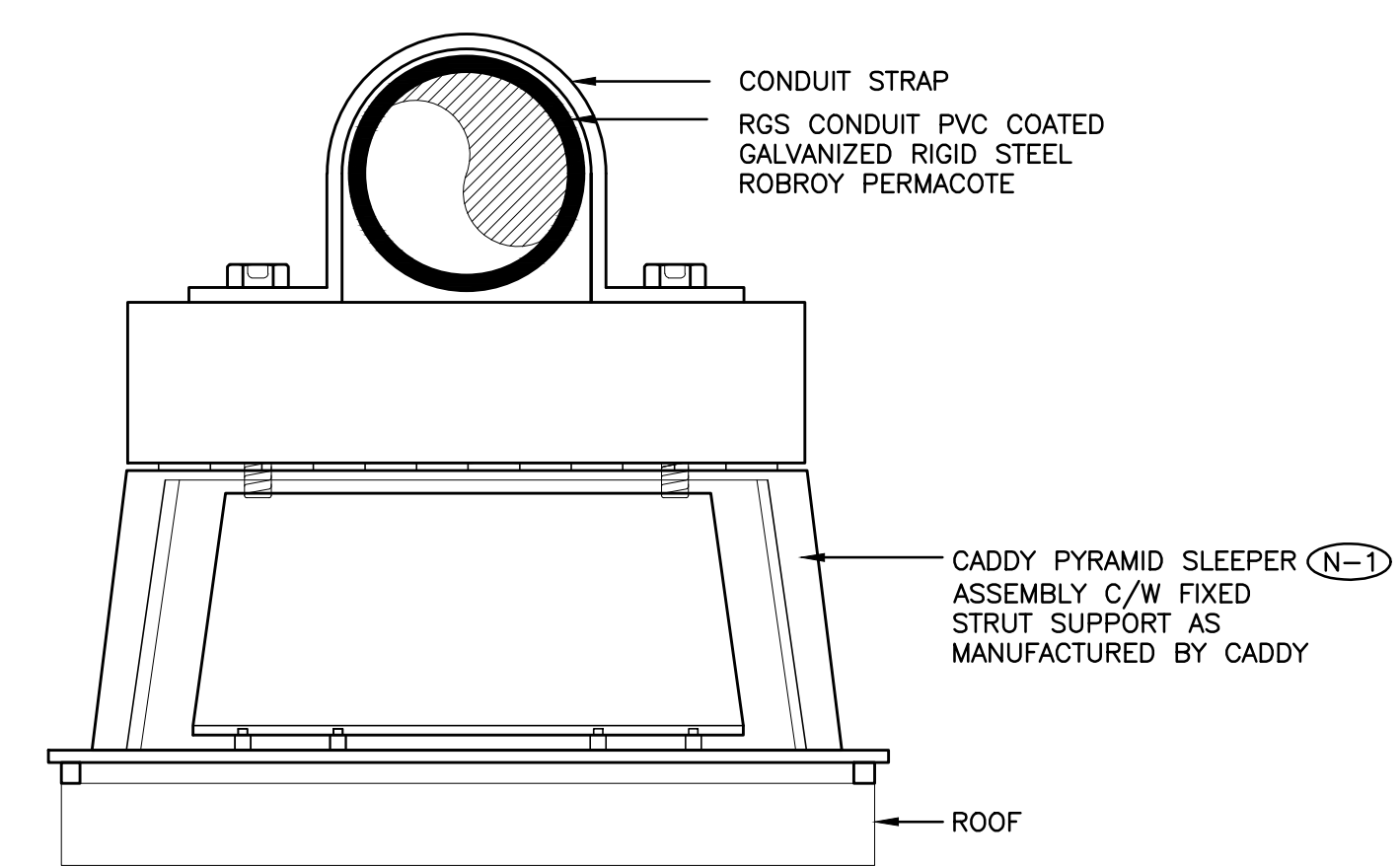
4 AUTOMATIC DOOR OPERATOR SYSTEM DETAIL
E-1.2 SCALE: NTS



- (N-1) SCHEMATIC IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR LOCATION AND QUANTITY OF DEVICES.
- (N-2) PROVIDE WIRING, CONTACTORS AND DUAL VOLTAGE RELAYS (DVR'S) AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
- (N-3) ALL LOW VOLTAGE WIRING TO BE ENCLOSED IN A CONDUIT SYSTEM.
- (N-4) PROVIDE EDWARDS SIGN-EMERG-PUSH SIGNAGE PER OBC ABOVE THE DURESS SYSTEM STATION.
- (N-5) WIRE THE APPLIANCE INDICATED FOR VISUAL ALARM ONLY.

- 1 DURESS SYSTEM COMBINATION STROBE LIGHT/HORN - EDWARDS 6536-G5
- 2 DURESS SYSTEM STATION, PUSH BUTTON - EDWARDS SS-2001E C/W SUB-102722-R SPACER
- 3 TRANSFORMER - EDWARDS 592

5 UNIVERSAL WASHROOM DURESS SYSTEM SCHEMATIC DIAGRAM
E-1.2 SCALE: NTS



- (N-1) PROVIDE SLEEPERS AT 5' INTERVALS.
- (N-2) PROVIDE SECONDARY MEMBRANES AND FOAMS AS RECOMMENDED BY MANUFACTURER FOR SPECIFIC ROOF TYPES AND APPLICATIONS.

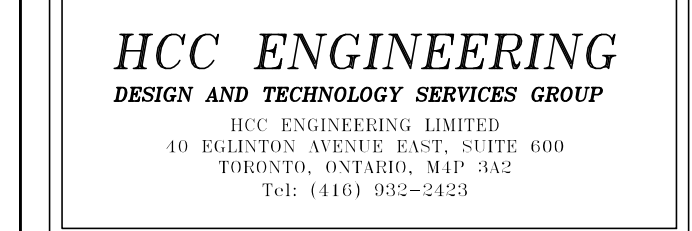
6 ROOFTOP CONDUIT MOUNTING DETAIL
E-1.2 SCALE: NTS

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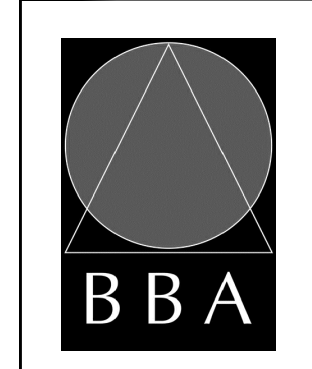


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PROJECT:
INTERIOR ALTERATIONS TO EXISTING FIRE HALL
553 KINGSTON ROAD,
PICKERING, ONTARIO
CITY OF PICKERING CULTURE & RECREATION DEPARTMENT

DRAWING:
ELECTRICAL DETAILS



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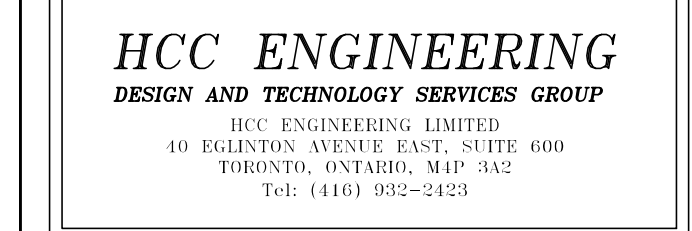
PROJECT NO: **17264**
DRAWING NO: **E-1.2**

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PROJECT NO:
17264
 DRAWING NO:
E-1.3

- (N-1) SCHEMATIC IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR DEVICE QUANTITY AND LOCATIONS. PROVIDE QUANTITY OF HARDWARE, ROOM CONTROLLERS, SENSORS, DEVICES, CONDUIT, WIRE, CONFIGURATION TOOLS, ETC. TO ENSURE A FULLY OPERATIONAL LOW VOLTAGE LIGHTING CONTROL SYSTEM.
- (N-2) NOT USED.
- (N-3) NOT USED.
- (N-4) ALL LOW VOLTAGE WIRING TO BE INSTALLED IN AN ENCLOSED CONDUIT SYSTEM.
- (N-5) PROVIDE POWER, CONDUIT, BACKBOX AND WIRING IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. MINIMUM CONDUIT SIZE 3/4".
- (N-6) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS ON EVERY FLOOR. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. ALL X-RAYS MUST BE REVIEWED AND APPROVED BY OWNER PRIOR TO CORE DRILLING.
- (N-7) PROVIDE ROOM CONTROLLERS TO ACCOMMODATE ALL LIGHTING ZONES IN CLOSED ROOMS (IE. OFFICES, MEETING ROOMS, ETC.) PROVIDED AS PART OF THIS SCOPE OF WORK. MAXIMUM OF TWO (2) SWITCH LEGS PER ROOM CONTROLLER.
- (N-8) NOT USED.
- (N-9) ROOM CONTROLLERS TO BE INSTALLED IN CEILING MOUNTED JUNCTION BOXES.
- (N-10) TERMINATE AND TEST ALL LOW VOLTAGE CONTROL CABLES PROVIDED AS PART OF THIS SCOPE OF WORK. PROVIDE TEST RESULTS FOR ALL LOW VOLTAGE CONTROL CABLES PROVIDED AS PART OF THIS SCOPE OF WORK AT THE END OF CONSTRUCTION. TEST RESULTS SHALL BE INCLUDED AS PART OF THE CLOSE OUT DOCUMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (N-11) REFER TO MANUFACTURER'S INSTALLATION GUIDELINES FOR ADDITIONAL INSTALLATION REQUIREMENTS OVER AND ABOVE THOSE DETAILS ON THIS SCHEMATIC.
- (N-12) PROVIDE POWER PACKS, AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM. POWER PACKS NOT SHOWN ON REFLECTED CEILING PLANS.
- (N-13) ELECTRICAL CONTRACTOR'S BASE BID PRICE SHALL INCLUDE FOUR (4) HOURS OF ON SITE COORDINATION TIME WITH WATTSTOPPER PRIOR TO ORDERING LIGHTING SYSTEM COMPONENTS TO CONFIRM DEVICES AND WIRING REQUIREMENTS. ALL CHANGES TO BE REVIEWED AND APPROVED BY CONSULTANT ON SITE PRIOR TO EXECUTION.

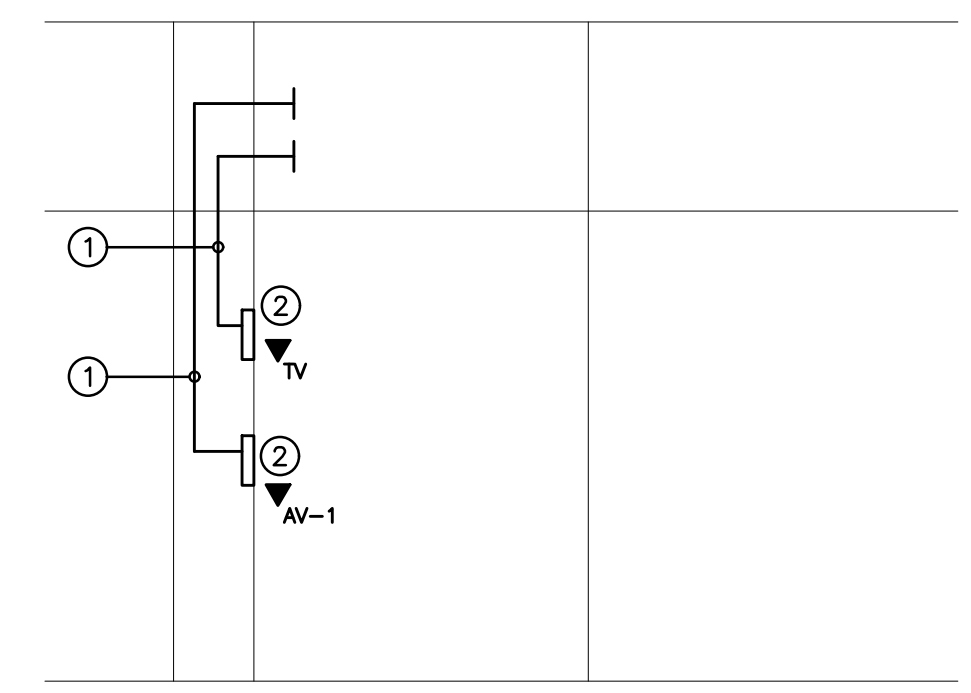
(N-14) LIGHT LEVEL OUTPUT (IE, DIMMING LEVEL) FOR EACH AND EVERY FIXTURE PROVIDED AS PART OF THIS SCOPE OF WORK IN ROOMS WITH DLM CONTROL TO BE FIELD ADJUSTED ON SITE WITH CLIENT POST OCCUPANCY. TARGET LIGHT LEVELS FOR EACH LOW VOLTAGE LIGHTING ZONE TO BE PROVIDED BY THE CLIENT POST OCCUPANCY. PROCURE (COORDINATE AND PAY FOR) THE SERVICES OF WATTSTOPPER TO ADJUST, PROGRAM AND COMMISSION THE LIGHTING CONTROL SYSTEM.

AS PART OF THIS SCOPE OF WORK PROCURE THE SERVICES OF A THIRD PARTY PROFESSIONAL ENGINEER TO MEASURE AND RECORD LIGHTING LEVELS IN FOOT CANDLES THROUGHOUT THE ENTIRE SCOPES OF WORK AREAS WITH A CALIBRATED LIGHT METER, AFTER ALL FIELD ADJUSTMENTS HAVE BEEN COMPLETED. READINGS SHALL BE TAKEN BASED ON A MINIMUM OF ONE READING FOR EVERY 20' CENTER IN OPEN OFFICE AREAS AND CORRIDORS / HALLWAYS AND ONE READING IN EACH CLOSED OFFICE, MEETING ROOM, BOARDROOM, ETC. ALL LIGHT LEVEL READINGS ARE TO BE TAKEN DURING NON-DAYLIGHT HOURS. PROVIDE A SEALED REPORT IDENTIFYING LIGHT LEVEL READINGS.

- ① TYPICAL RECEPTACLE / LIGHTING PANEL. REFER TO DRAWING NO. E-7.1 FOR ADDITIONAL REQUIREMENTS
- ② 0 TO 10VDC CONTROL WIRING PER MANUFACTURER'S RECOMMENDATIONS
- ③ NOT USED.
- ④ ON / OFF / DIMMING ROOM CONTROLLER
- ⑤ PLENUM RATED 4 PAIR CAT6 UTP CABLE AS MANUFACTURED BY WATT STOPPER

INSTALL LOW VOLTAGE CONTROL SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, ASHRAE 90.1 2013, ONTARIO BUILDING CODE, ELECTRICAL SAFETY CODE AND THESE DOCUMENTS.

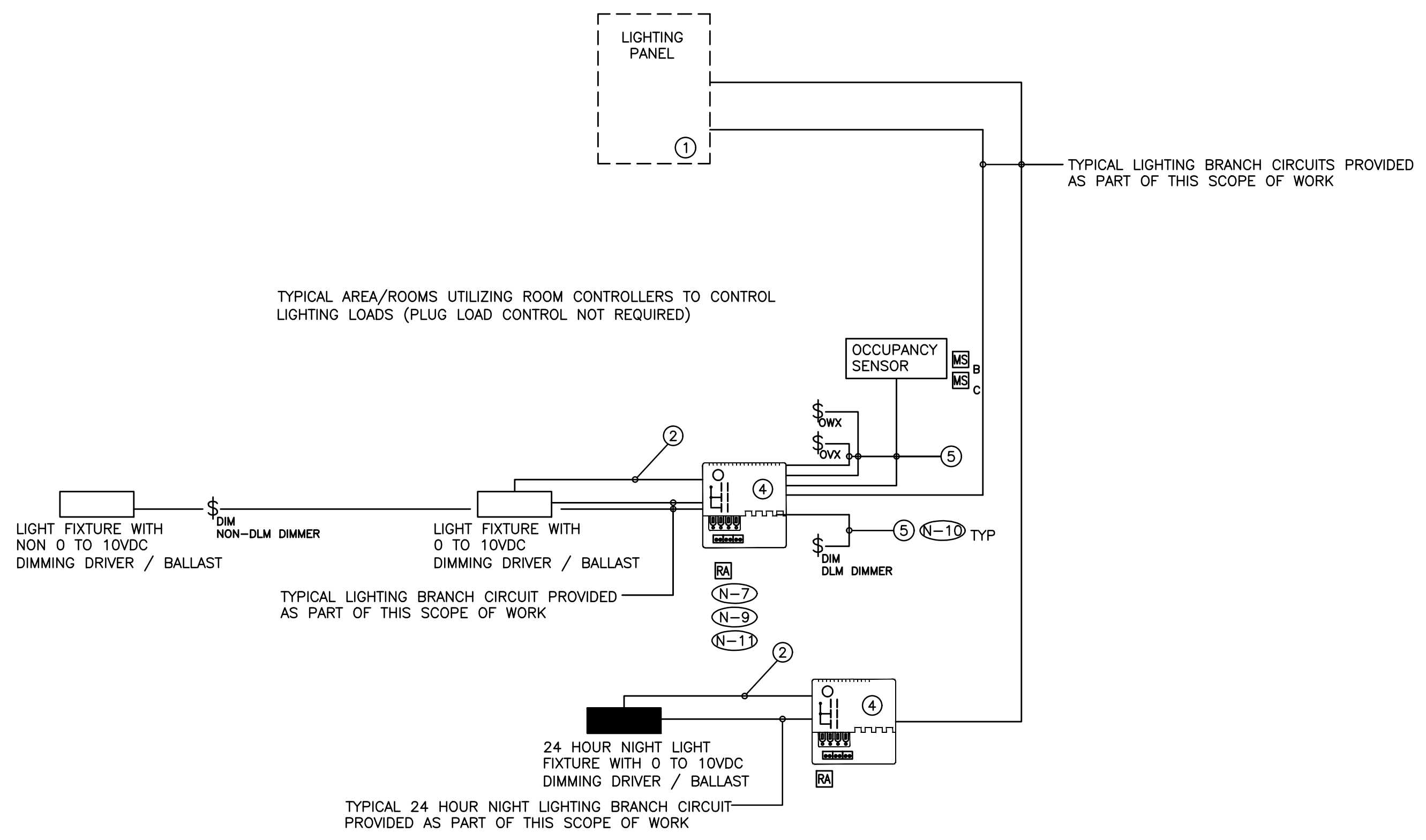
————— DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
 - - - - - DENOTES EXISTING TO REMAIN
 * * * * * DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR



- (N-1) LOW VOLTAGE CABLES AND TERMINATIONS PROVIDED BY A/V CONTRACTOR.
- (N-2) PROVIDE NYLON INSULATED THROATS FOR ALL BUSHINGS AND CONNECTORS.
- (N-3) COORDINATE CONDUIT TERMINATION REQUIREMENTS ON SITE WITH A/V CONTRACTOR.

- ① 1 1/2" CONDUIT C/W PULL STRING
- ② 4" SQUARE WALL MOUNTED DEEP BACKBOX C/W WHITE COVERPLATE (PUNCHOUT AS DIRECTED ON SITE) FOR A/V CONTRACTOR'S USE

3
 E-1.3 TV CONDUIT ROUGH-IN SYSTEM DETAIL
 SCALE: NTS

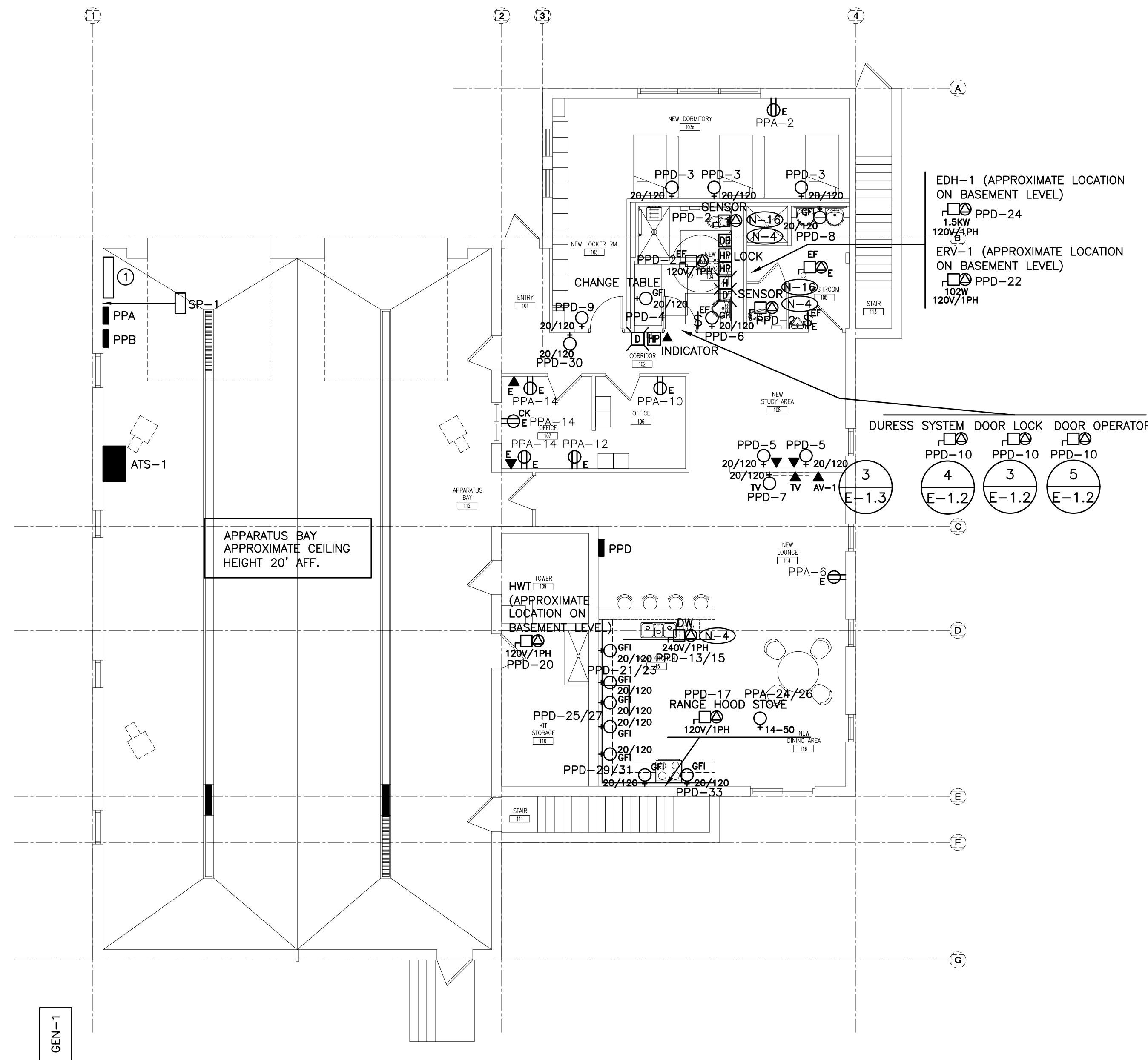


1
 E-1.3 LOW VOLTAGE LIGHTING CONTROL SYSTEM WIRING SCHEMATIC
 SCALE: NTS

FIXTURE SCHEDULE

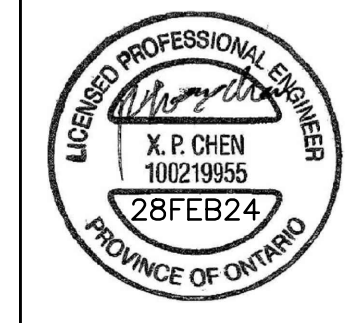
TYPE A1 - 1' X 4' RECESSED MOUNTED FLUORESCENT FIXTURE C/W 2 X T8 LAMPS, 120V BALLASTS AND ACRYLIC LENS.	TYPE B7 - 4000 LUMEN RECESSED LED DOWNLIGHT SUITABLE FOR OUTDOOR CANOPY INSTALLATION C/W IN LINE POWER DISCONNECT, GROOF RING, POWER SUPPLY, 120V 0 TO 10VDC DIMMING ELECTRONIC DRIVER AND LAMP (4000K, 80% CRI). COOPER LIGHTING LDRT8B40D010 ER8B30408040 8LBW1H ABR10P
TYPE A2 - 2' X 4' RECESSED MOUNTED FLUORESCENT FIXTURE C/W 4 X T8 LAMPS, 120V BALLASTS AND ACRYLIC LENS.	TYPE W1 - WALL MOUNTED FIXTURE C/W ACRYLIC LENS, BALLAST AND HID LAMP.
TYPE A3 - 3400 LUMEN 2' X 4' RECESSED MOUNTED LED FIXTURE, SUITABLE FOR LAY-IN CEILING C/W IN LINE POWER DISCONNECT, POWER SUPPLY, 120V 0 TO 10VDC DIMMING DRIVER AND LAMP (4000K/85% CRI). COOPER 24EN-LD2-34-UNV-L840-CD-1	TYPE W2 - WALL MOUNTED FLOOD LIGHT FIXTURE C/W ACRYLIC LENS, BALLAST AND HPS LAMP
TYPE A4 - 3000 LUMEN 2' X 4' RECESSED MOUNTED LED FIXTURE, SUITABLE FOR LAY-IN CEILING C/W IN LINE POWER DISCONNECT, POWER SUPPLY, 120V 0 TO 10VDC DIMMING DRIVER AND LAMP (4000K/85% CRI). COOPER 24EN-LD2-30-UNV-L840-CD-1	TYPE W3 - 13258 LUMEN WALL MOUNTED LED FIXTURE SUITABLE FOR OUTDOOR INSTALLATION C/W IN LINE POWER DISCONNECT, POWER SUPPLY, 120V 0 TO 10VDC DIMMING ELECTRONIC DRIVER AND LAMP (4000K, 80% CRI). COOPER LIGHTING XTOR12B-W-BK
TYPE A5 - SURFACE MOUNTED FIXTURE C/W 8 X INCANDESCENT LAMPS.	TYPE W4 - 16900 LUMEN WALL MOUNTED LED FLOODLIGHT FIXTURE SUITABLE FOR OUTDOOR INSTALLATION C/W IN LINE POWER DISCONNECT, POWER SUPPLY, 120V 0 TO 10VDC DIMMING ELECTRONIC DRIVER AND LAMP (4000K, 80% CRI). COOPER LIGHTING NFFLD-C40-D-UNV-66-T-BK
TYPE A6 - 4' SUSPENDED FLUORESCENT FIXTURE C/W 2X T8 LAMPS, BALLASTS AND WIRE GUARD.	TYPE D1 - EMERGENCY LIGHTING SYSTEM C/W 10 YEAR 24VOLT/720W/0.5 HOUR/BATTERY UNIT/120/347 VOLT INPUT BEGHELLI NOVA SERIES NV-24-720/WHITE IN COLOUR.
TYPE A7 - 8' WALL MOUNTED VAPOR TIGHT FLUORESCENT FIXTURE C/W 2X T8 LAMPS.	TYPE D2 - 2 X 5W MR16 24V BEGHELLI BTMR SERIES BTMR2-24V-5W LED, WHITE IN COLOUR.
TYPE A8 - WALL MOUNTED FIXTURE C/W WIRE GUARD, 2X RETROFITTED TED LED LAMPS.	TYPE D3 - 1 X 5W MR16 24V BEGHELLI BTMR SERIES BTMR1-24V-5W LED, WHITE IN COLOUR.
TYPE A9 - 6745 LUMEN 4' SUSPENDED LED STRIP LIGHT FIXTURE C/W IN LINE POWER DISCONNECT, POWER SUPPLY, WIRE GUARD, 120V 0 TO 10VDC DIMMING DRIVER AND LAMP (4000K/85% CRI). COOPER METALUX 4SNLED-LD5-65HL-LW-UNV-L840-CD1-U WG/SNF-4FT	TYPE D4 - 2 X 7W MR16 24V BEGHELLI BTMR SERIES BTMR1-24V-5W LED, WHITE IN COLOUR.
TYPE A10 - 15739 LUMEN 8' SUSPENDED LED LINEAR FIXTURE C/W IN LINE POWER DISCONNECT, POWER SUPPLY, 120V 0 TO 10VDC DIMMING DRIVER AND LAMP (4000K/80% CRI). COOPER 8TNSLED-LD5-150HL-LW-UNV-L840-CD1-U C/W 2 (TWO) X WG/SNF-4FT	TYPE D5 - EMERGENCY REMOTE HEADS C/W 1 HEAD.
TYPE B1 - 6" RECESSED MOUNTED DOWNLIGHT C/W 1 X CFL LAMP.	TYPE D5A - RECESSED MOUNTED ADJUSTABLE EMERGENCY REMOTE HEAD.
TYPE B2 - 1500 LUMEN 4" LED RECESSED ROUND DOWNLIGHT SUITABLE FOR DRYWALL CEILING C/W IN LINE POWER DISCONNECT, 120V 0 TO 10VDC DIMMING DRIVER AND WIDE BEAM LAMP (4000K 80%CRI). COOPER LIGHTING PORTFOLIO LD4B15D010 EU4B10208040 4LBW1H.	TYPE D6 - EMERGENCY REMOTE HEADS C/W 2 HEADS.
TYPE B3 - 1500 LUMEN 4" LED RECESSED ROUND DOWNLIGHT GASKET FOR IP66 RATING SUITABLE FOR DRYWALL CEILING C/W IN LINE POWER DISCONNECT, 120V 0 TO 10VDC DIMMING DRIVER AND WIDE BEAM LAMP (4000K 80%CRI) AND IP66 GASKET KIT. COOPER LIGHTING PORTFOLIO LD4B15D010 EU4B10208040 4LBPS1MW LGSKT4IP66.	
TYPE B4 - SURFACE MOUNTED DOME FIXTURE C/W INCANDESCENT LAMP.	
TYPE B5 - 10" RECESSED CANOPY MOUNTED DOWNLIGHT C/W LAMPS.	
TYPE B6 - 1500 LUMEN 10" RECESSED LED DOWNLIGHT SUITABLE FOR CANOPY INSTALLATION C/W IN LINE POWER DISCONNECT, GROOF RING, POWER SUPPLY, 120V 0 TO 10VDC DIMMING ELECTRONIC DRIVER AND LAMP (4000K, 80% CRI). COOPER LIGHTING LDRT8B15D010 ER8B10208040 8LBW1H ABR10P	

2
 E-1.3 FIXTURE SCHEDULE
 SCALE: NTS



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 Tel: (416) 952-2423

PROJECT:
INTERIOR ALTERATIONS TO EXISTING FIRE HALL
 553 KINGSTON ROAD,
 PICKERING, ONTARIO
 CITY OF PICKERING CULTURE
 & RECREATION DEPARTMENT

DRAWING:
ELECTRICAL PLAN - GROUND FLOOR

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DESIGN BY: PC	DOC CONTROL: DATE:
DRAWN BY: TLR	% COMPLETE:
CHECKED BY: HDC	INITIAL:
DATE: FEBRUARY 2018	
SCALE: 1/8" = 1'-0"	
FILE:	

- (N-1) EXACT LOCATION OF ALL DEVICES AND RESPECTIVE HEIGHTS TO BE COORDINATED ON SITE WITH DESIGNER.
- (N-2) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS. UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.
- (N-3) CIRCUIT NUMBERS MAY NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.
- (N-4) CONFIRM BREAKER AND RECEPTACLE REQUIREMENTS PRIOR TO ORDERING DISTRIBUTION.
- (N-5) MANUAL STARTER SWITCH/THERMOSTAT SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE CONDUIT AND WIRE.
- (N-6) COORDINATE WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT ON SITE WITH MECHANICAL CONTRACTOR.
- (N-7) CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF ELECTRICAL SERVICES.
- (N-8) ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT ARE TO BE IN LIQUID TIGHT FLEXIBLE CONDUIT.
- (N-9) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE CONDUIT INSTALLATION. REFER TO MECHANICAL DRAWINGS AND DESIGNER DRAWINGS FOR ADDITIONAL DETAILS.
- (N-10) PROVIDE NEW COVERPLATES FOR ALL RECEPTACLES/SWITCHES DENOTED AS EXISTING TO REMAIN. REFER TO DETAIL NO. 1 ON DRAWING NO. E-1.1 FOR DEVICE AND COVER PLATE COLOUR ASSIGNMENTS. BASE BID PRICE SHALL INCLUDE FOR 6 ADDITIONAL COVER PLATES OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-2.1 AND DETAIL NO. 2 ON DRAWING NO. E-3.1.

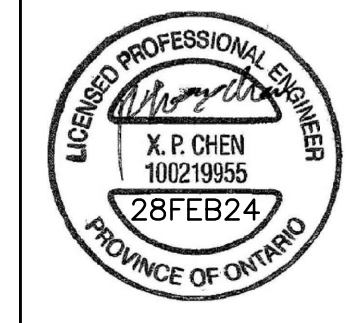
- (N-11) AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE (SUPPLY AND INSTALL) AN ADDITIONAL TWO (2) CSA 5-20R DUPLEX RECEPTACLES OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-2.1 ON AN AD HOC BASIS UP TO SUBSTANTIAL COMPLETION. EACH ADDITIONAL RECEPTACLE SHALL BE ON A DEDICATED CIRCUIT COMPLETE WITH BRANCH WIRING (CONDUIT AND WIRE) AND BREAKER. BREAKER REQUIREMENTS NOT INDICATED ON PANEL SCHEDULES.
 PROVIDE RECEPTACLES, CONDUIT, WIRE (100' OF 2#12AWG + G (TOTAL OF 200' WIRE PLUS G AND 100' 3/4" CONDUIT) PER RECEPTACLE), BREAKERS, TERMINATION AT PANEL BREAKER END AND AT DEVICE END, ETC. FOR FULLY FUNCTIONAL LIVE DEVICES. EXACT INSTALLATION LOCATION AND PANEL SOURCE TO BE DETERMINED ON SITE BY CLIENT DURING CONSTRUCTION. PROVIDE UPDATED TYPED PANEL SCHEDULES FOR ALL PANELS AT THE COMPLETION OF THE PROJECT.
- (N-12) PROVIDE LOCKONS FOR BREAKERS PROTECTING EMERGENCY LIGHTING CIRCUITS.
- (N-13) ELECTRICAL CONTRACTOR TO ENSURE THAT DEVICES ARE NOT INSTALLED ON WALLS WITH WHITE BOARDS OR ON FEATURE WALLS. CONFIRM ALL WHITE BOARD AND FEATURE WALL LOCATIONS PRIOR TO INSTALLATION.
- (N-14) MINIMUM WIRE SIZE #10AWG FOR ALL 120 VOLT CIRCUITS EXCEEDING 90 FEET IN LENGTH.
- (N-15) ALL SERVICES IN FINISHED AREAS INCLUDING THESE WITH BLOCK WALLS MUST BE CONCEALED. EXPOSED SURFACE MOUNTED CONDUIT SYSTEMS WILL NOT BE ACCEPTABLE.
- (N-16) PROVIDE 120/24V TRANSFORMER FOR EACH WASHROOM APPLIANCE SENSOR (SENSOR PROVIDED BY DIVISION 15).
- (N-17) ALL CIRCUITS SHALL BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTERS.

(1) EXISTING METER CABINET.

PROJECT NO:
17264
 DRAWING NO:
E-2.1

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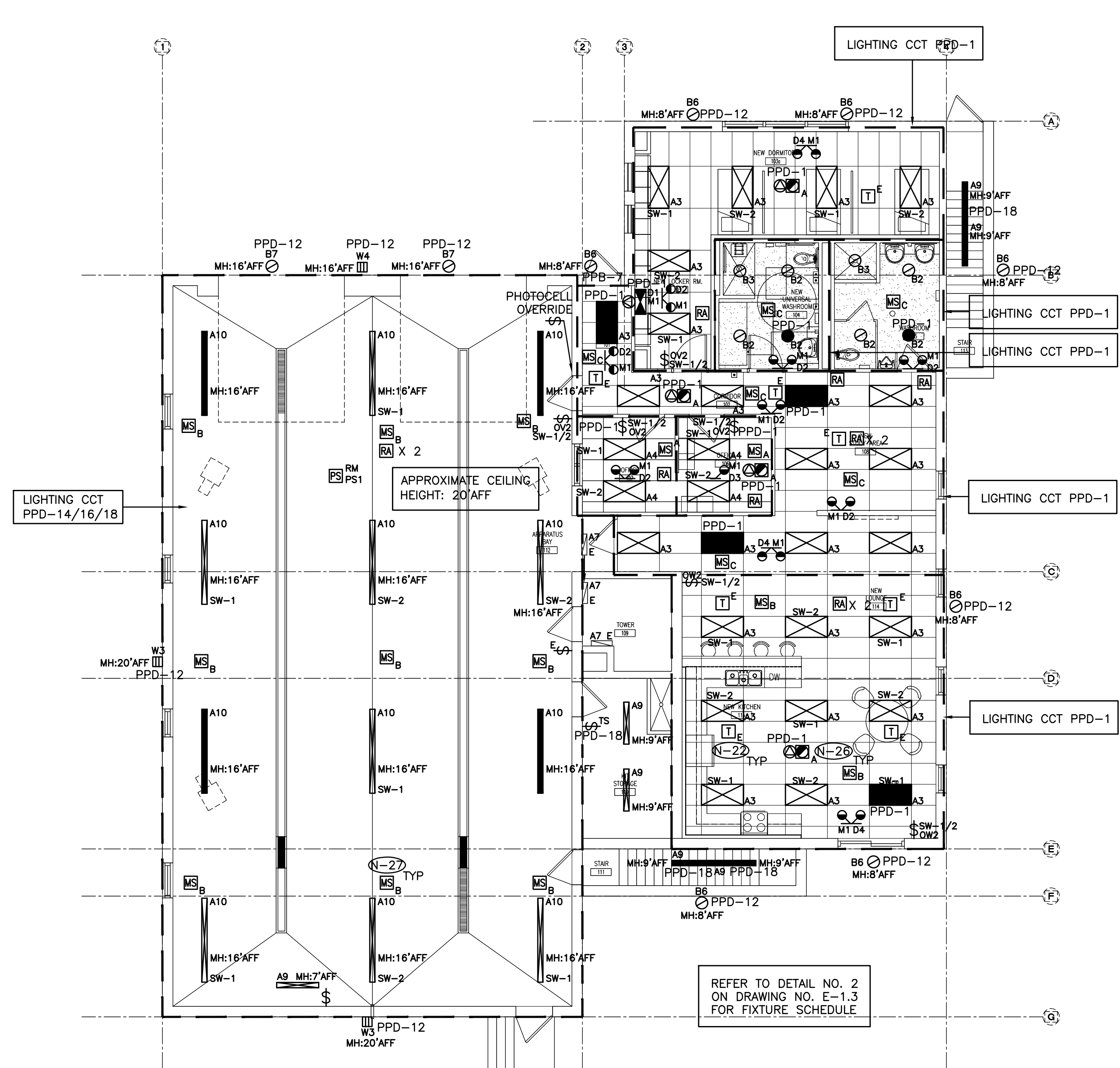
DRAWING:
REFLECTED CEILING PLANS



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CHECKED BY: HDC	INITIAL:
DATE: FEBRUARY 2018	SCALE: AS SHOWN
FILE:	

PROJECT NO:
17264
 DRAWING NO:
E-3.1

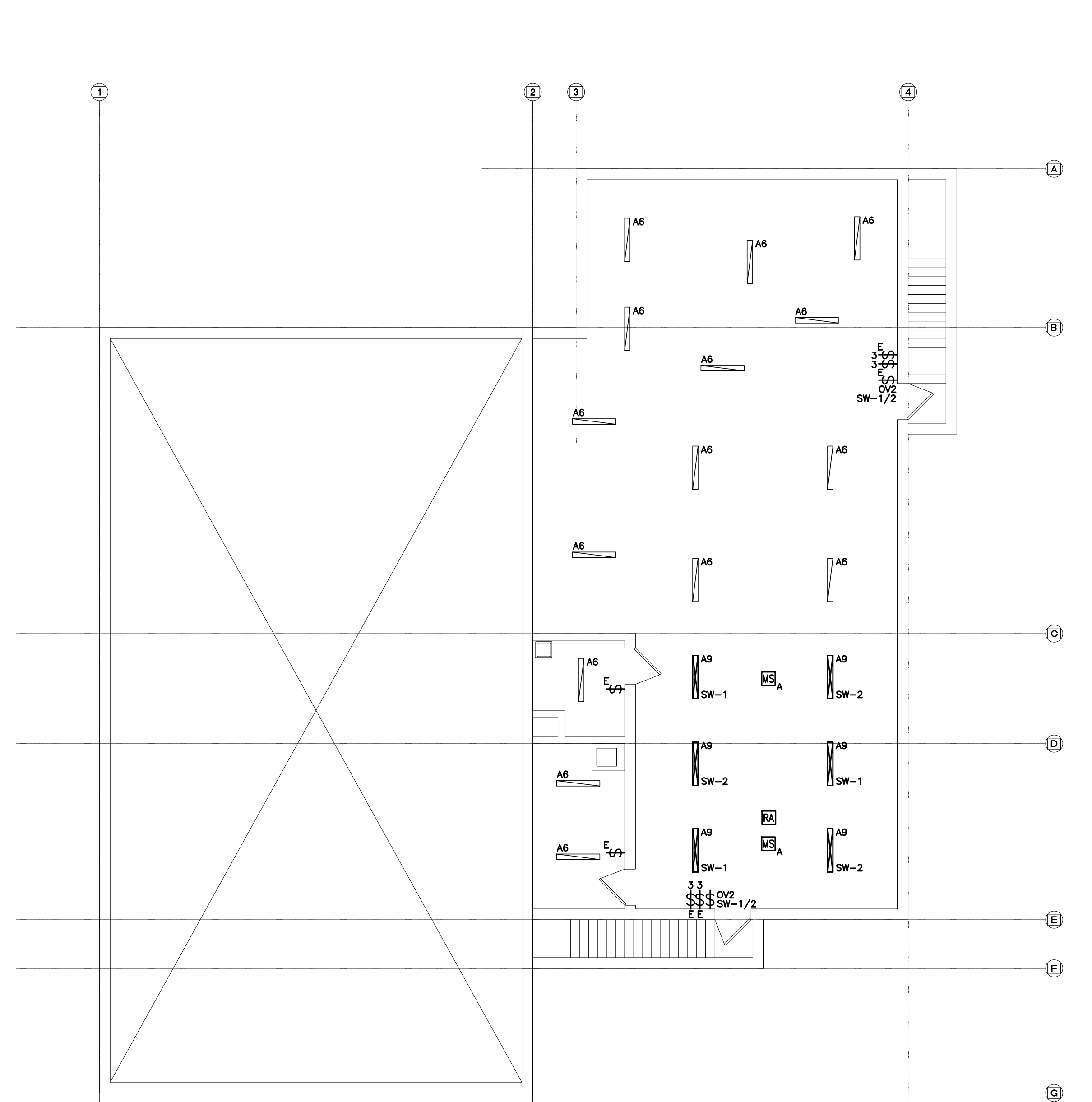


- (N-1) REFER TO DESIGNERS DRAWINGS FOR EXACT LOCATION AND HEIGHTS FOR MOUNTING OF FIXTURES, OCCUPANCY SENSORS, LIGHT SWITCHES, ETC.
- (N-2) PROVIDE NEW LIGHTING FIXTURES, SWITCHES, OCCUPANCY SENSORS, ETC. TO SUIT NEW REFLECTED CEILING PLAN.
- (N-3) COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT AND DUCT WORK.
- (N-4) NOT USED.
- (N-5) PROVIDE LOCK ON FOR BREAKERS PROTECTING EMERGENCY LIGHTING SYSTEMS / CIRCUITS.
- (N-6) NOT USED.
- (N-7) NOT USED.
- (N-8) NOT USED.
- (N-9) NOT USED.
- (N-10) AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE (SUPPLY AND INSTALL) AN ADDITIONAL TWO (2) TYPE D4 REMOTE HEADS OVER AND ABOVE THOSE SHOWN ON DETAIL NO. 2 ON DRAWING NO. E-3.1 POST CITY FIRE / BUILDING DEPARTMENT INSPECTIONS.

 PROVIDE TYPE D4 REMOTE HEADS, CONDUIT, WIRE (100' OF 2#12AWG + G (TOTAL OF 200' WIRE PLUS G, 100' CONDUIT) PER TYPE D4 REMOTE HEAD). TERMINATION AT EMERGENCY LIGHTING SYSTEM END AND AT DEVICE END, ETC. FOR FULLY FUNCTIONAL LIVE DEVICES. EXACT INSTALLATION LOCATION AND EMERGENCY LIGHTING SYSTEM SOURCE TO BE DETERMINED ON SITE DURING CONSTRUCTION.
- (N-11) AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE (SUPPLY AND INSTALL) AN ADDITIONAL ONE (1) DIGITAL DIMMING ROOM CONTROLLERS OVER AND ABOVE THOSE SHOWN ON DETAIL NO. 2 ON DRAWING NO. E-3.1 ON AN AD HOC BASIS UP TO SUBSTANTIAL COMPLETION.

 PROVIDE WATT STOPPER LMRC-212 C/W CONDUIT, WIRE (50' OF 2#12AWG + G (TOTAL OF 100' WIRE PLUS G, 50' CONDUIT) PER ROOM CONTROLLER). TERMINATIONS, ETC. FOR FULLY FUNCTIONAL LIVE DEVICES. EXACT INSTALLATION LOCATION AND SWITCH LEGS TO BE DETERMINED ON SITE DURING CONSTRUCTION.
- (N-12) ALL SWITCHES PROVIDED AS PART OF THIS SCOPE OF WORK TO BE ALIGNED WITH THERMOSTATS.
- (N-13) PROVIDE NEW SWITCHING LEGS SHOWN ON DRAWING. REWIRE EXISTING FIXTURES IN RESPECTIVE ROOMS AS REQUIRED.
- (N-14) AS-BUILT DRAWINGS MUST DETAIL THE ZONING AND CIRCUIT NUMBERS OF ALL FIXTURES THROUGHOUT ENTIRE FLOOR.
- (N-15) CHAIN HANG ALL FIXTURES IN FINISHED CEILING AREAS ABOVE FROM SLAB.
- (N-16) SWITCH/DIMMING LEGS SHALL BE WIRED SUCH THAT LEG IS CONTROLLED BY OCCUPANCY SENSORS IN RESPECTIVE SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS. OPERATION OF SAME LIGHT BRANCH CIRCUIT IN ADJACENT AREAS/ROOMS SHALL NOT AFFECT OPERATION OF LIGHTING IN RESPECTIVE AREA.
- (N-17) AS PART OF THIS SCOPE OF WORK EMPLOY AND PAY FOR THE SERVICES OF A CERTIFIED WATT STOPPER SERVICE CONSULTANT TO COMMISSION ALL CEILING MOUNTED OCCUPANCY SENSORS AND PHOTOSENSORS PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-18) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR TO HAVE WATT STOPPER SERVICE CONSULTANT ONSITE AFTER LIGHTING AND HVAC INSTALLATION IS COMPLETE AND PRIOR TO INSTALLATION OF SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK TO CONFIRM PLACEMENT OF SENSORS.
- (N-19) CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE INSTALLED AT LEAST 6' AWAY FROM ALL SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLS. COORDINATE EXACT INSTALLATION LOCATION WITH WATT STOPPER LIGHTING CONTROL SERVICE CONSULTANT AND MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.
- (N-20) ALL ROOM CONTROLLERS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE INSTALLED WITHIN CEILING MOUNTED JUNCTION BOXES PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-21) NOT USED.
- (N-22) TEMPORARILY SUPPORT PAGING SYSTEM SPEAKERS DENOTED AS EXISTING TO REMAIN FROM CEILING STRUCTURE TO ACCOMMODATE THE DEMOLITION OF EXISTING CEILING AND THE INSTALLATION OF NEW CEILING PROVIDED BY GENERAL CONTRACTOR.
- (N-23) UTILIZE CCT PPD-1 (DC SOURCES M1) TO POWER NON-SWITCHED NIGHT LIGHTING.
- (N-24) AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE (SUPPLY AND INSTALL) AN ADDITIONAL TWO (2) TYPE 'A' CEILING MOUNTED OCCUPANCY SENSORS EACH COMPLETE WITH 75'-0" OF CONDUIT AND WIRING AND A LMSW-102 DIGITAL LIGHT SWITCH OVER AND ABOVE THOSE SHOWN ON DETAIL NO. 2 ON DRAWING NO. E-3.1 POST SUBSTANTIAL COMPLETION.
- (N-25) EACH AND EVERY SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS (I.E. OFFICES, MEETING ROOMS, ENCLAVES, ETC.) WITH DLM CONTROL TO BE WIRED WITH TWO CONTROLLABLE SWITCH-LEGS SUCH THAT THERE IS ONE CONTROL STEP OF NOT MORE THAN 50% LIGHTING POWER IN ADDITION TO AN AUTO OFF IN THE RESPECTIVE SPACE. REFER TO ASHRAE 90.1 2013 FOR ADDITIONAL REQUIREMENTS.
- (N-26) SMOKE ALARMS SHALL BE WIRED SUCH THAT ACTIVATION OF ONE SMOKE ALARM WILL CAUSE ALL SMOKE ALARMS WITHIN THE BUILDING TO SOUND.
- (N-27) UTILIZE 3/4" RIGID CONDUIT TO SUSPEND OCCUPANCY SENSOR FROM CEILING STRUCTURE ABOVE. ELECTRICAL CONTRACTOR TO ENSURE THAT BOTTOM OF OCCUPANCY SENSOR IS LEVELED WITH BOTTOM OF TYPE A10 FIXTURES.

2 REFLECTED CEILING PLAN – GROUND FLOOR
 E-3.1 SCALE: 1/8" = 1'0"

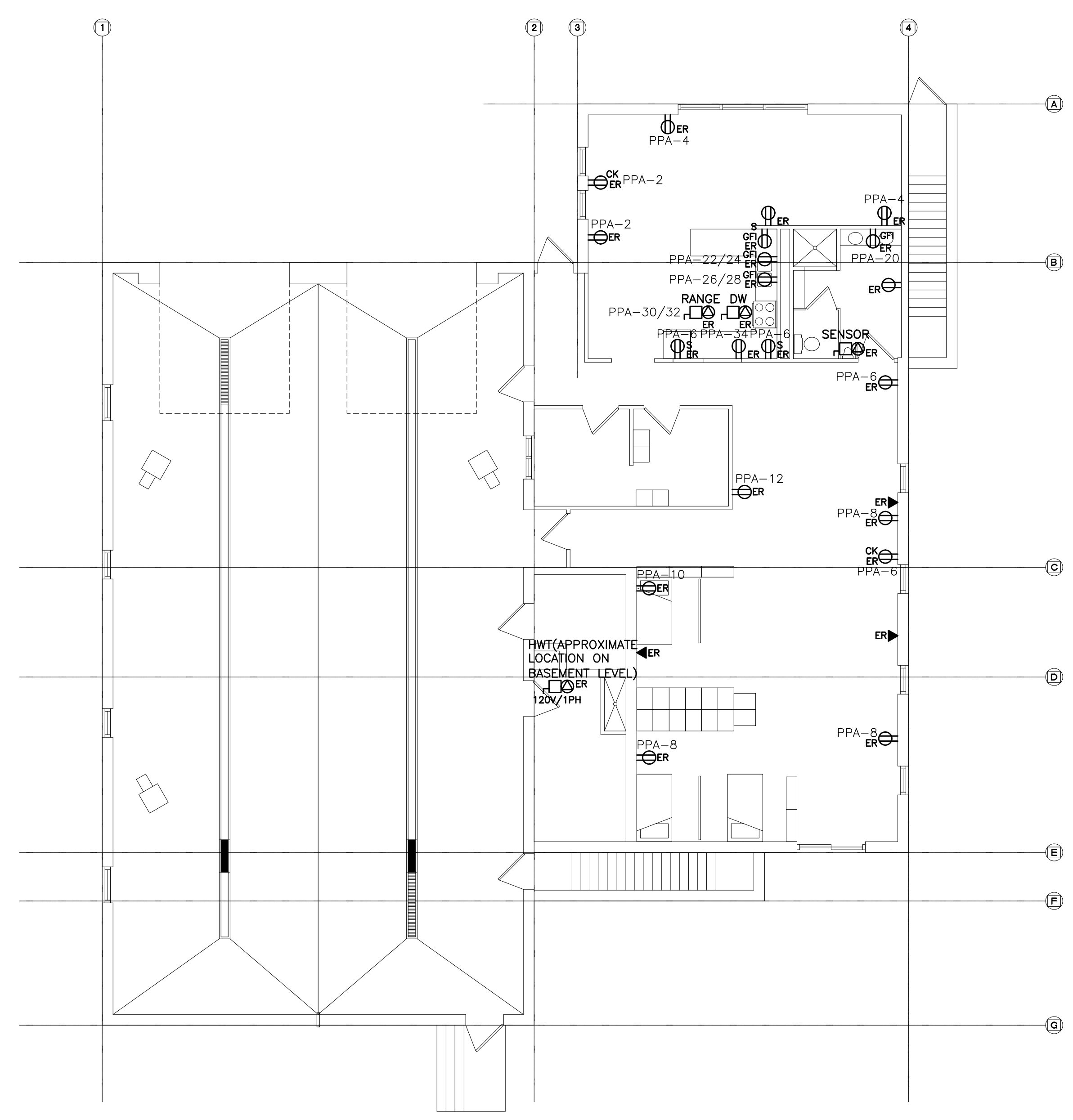


- (N-1) REFER TO DESIGNERS DRAWINGS FOR EXACT LOCATION AND HEIGHTS FOR MOUNTING OF FIXTURES, OCCUPANCY SENSORS, LIGHT SWITCHES, ETC.
- (N-2) PROVIDE NEW LIGHTING FIXTURES, SWITCHES, OCCUPANCY SENSORS, ETC. TO SUIT NEW REFLECTED CEILING PLAN.
- (N-3) COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT AND DUCT WORK.
- (N-4) REUTILIZE EXISTING LIGHTING CIRCUITS UNLESS DENOTED OTHERWISE.
- (N-5) PROVIDE LOCK ON FOR BREAKERS PROTECTING EMERGENCY LIGHTING SYSTEMS / CIRCUITS.
- (N-6) PROVIDE NEW SWITCHING LEGS SHOWN ON DRAWING. REWIRE EXISTING FIXTURES IN RESPECTIVE ROOMS AS REQUIRED.
- (N-7) CHAIN HANG ALL FIXTURES IN FINISHED CEILING AREAS ABOVE FROM SLAB.
- (N-8) SWITCH/DIMMING LEGS SHALL BE WIRED SUCH THAT LEG IS CONTROLLED BY OCCUPANCY SENSORS IN RESPECTIVE SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS. OPERATION OF SAME LIGHT BRANCH CIRCUIT IN ADJACENT AREAS/ROOMS SHALL NOT AFFECT OPERATION OF LIGHTING IN RESPECTIVE AREA.
- (N-9) AS PART OF THIS SCOPE OF WORK EMPLOY AND PAY FOR THE SERVICES OF A CERTIFIED WATT STOPPER SERVICE CONSULTANT TO COMMISSION ALL CEILING MOUNTED OCCUPANCY SENSORS AND PHOTOSENSORS PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-10) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR TO HAVE WATT STOPPER SERVICE CONSULTANT ONSITE AFTER LIGHTING AND HVAC INSTALLATION IS COMPLETE AND PRIOR TO INSTALLATION OF SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK TO CONFIRM PLACEMENT OF SENSORS.
- (N-11) CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE INSTALLED AT LEAST 6' AWAY FROM ALL SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLS. COORDINATE EXACT INSTALLATION LOCATION WITH WATT STOPPER LIGHTING CONTROL SERVICE CONSULTANT AND MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.
- (N-12) ALL ROOM CONTROLLERS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE INSTALLED WITHIN CEILING MOUNTED JUNCTION BOXES PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-13) EACH AND EVERY SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS (I.E. OFFICES, MEETING ROOMS, ENCLAVES, ETC.) WITH DLM CONTROL TO BE WIRED WITH TWO CONTROLLABLE SWITCH-LEGS SUCH THAT THERE IS ONE CONTROL STEP OF NOT MORE THAN 50% LIGHTING POWER IN ADDITION TO AN AUTO OFF IN THE RESPECTIVE SPACE. REFER TO ASHRAE 90.1 2013 FOR ADDITIONAL REQUIREMENTS.

REFER TO DETAIL NO. 2 ON DRAWING NO. E-1.3 FOR FIXTURE SCHEDULE

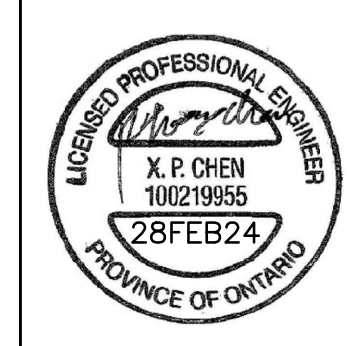
1 REFLECTED CEILING PLAN – BASEMENT LEVEL
 E-3.1 SCALE: 1/8" = 1'0"

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- (N-1) ALL EXISTING BRANCH WIRING AND RACEWAYS, INCLUDING THOSE COILED IN CEILING SPACE SHALL BE REMOVED BACK TO SOURCE PANEL. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS. DO NOT REUSE EXISTING WIRING OR CONDUIT SYSTEMS.
- (N-2) REMOVE ALL ABANDONED ZONE CONDUITS INCLUDING THOSE IN CEILING SPACE. EXISTING ZONE CONDUITS NOT SHOWN ON DRAWING.
- (N-3) BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF 3 ADDITIONAL RECEPTACLES, COMMUNICATIONS ROUGH-INS, ETC. OVER AND ABOVE THOSE SHOWN ON THIS DRAWING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (N-4) CONFIRM DEMOLITION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO DISCONNECTING MECHANICAL EQUIPMENT.
- (N-5) DO NOT REUSE ANY DEVICES, BACKBOXES, CONTROL SYSTEMS, ETC REMOVED AS PART OF THIS SCOPE OF WORK.
- (N-6) REWIRE ALL EXISTING TO REMAIN DEVICES AS REQUIRED TO ENSURE CONTINUITY OF SERVICES. EXISTING TO REMAIN DEVICES NOT SHOWN ON DRAWING.
- (N-7) COORDINATE DEMOLITION REQUIREMENTS WITH DIVISION 15 TO ENSURE THAT POWER AND LINE VOLTAGE CONTROL WIRING FOR DIVISION 15 DEVICES TO REMAIN IS NOT DISCONNECTED.
- (N-8) ALL EXISTING CIRCUITS SHOWN ARE FOR REFERENCE PURPOSES ONLY. CONTRACTOR MUST TRACE CIRCUITS AND CONFIRM INFORMATION PRIOR TO DISCONNECTION AND REWORKING/ REMOVING OF CIRCUITS.

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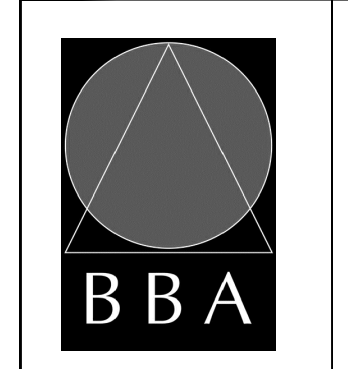


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PROJECT:
INTERIOR ALTERATIONS TO EXISTING FIRE HALL
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 PICKERING, ONTARIO
 CITY OF PICKERING CULTURE
 & RECREATION DEPARTMENT

DRAWING:
ELECTRICAL DEMOLITION PLAN - GROUND FLOOR

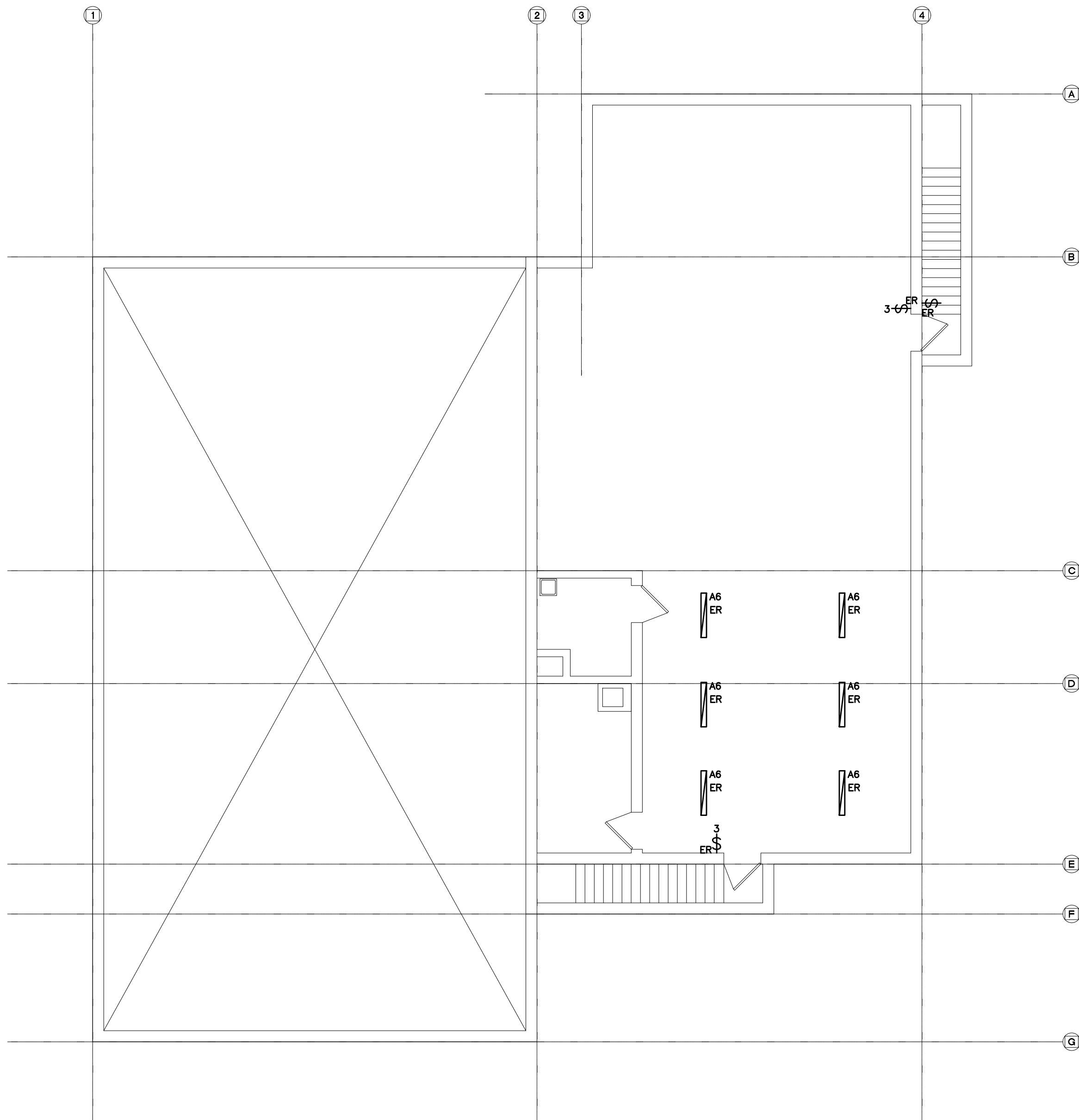


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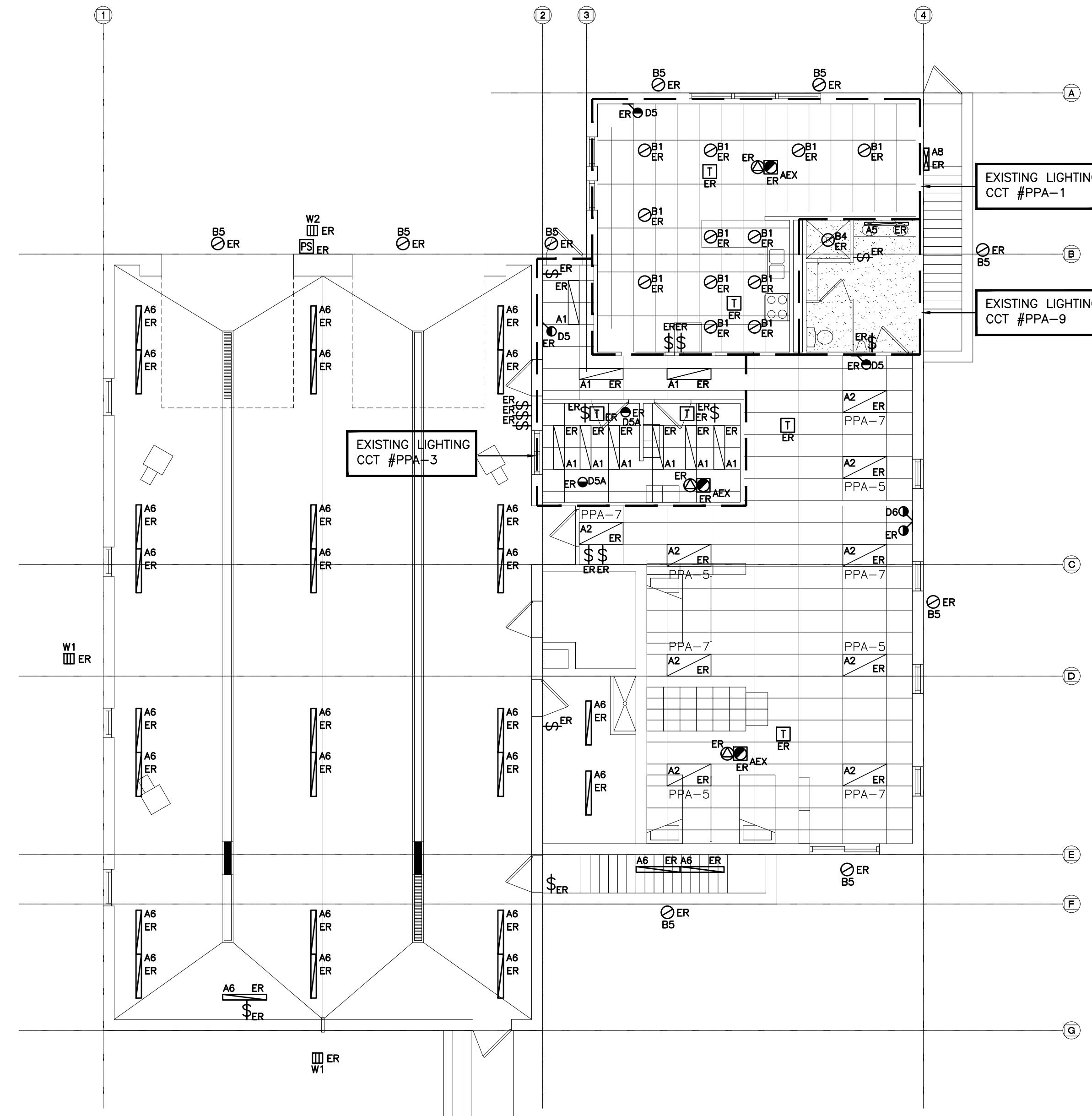
PROJECT NO: **17264**
 DRAWING NO: **E-5.1**



- (N-1) BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF 2 ADDITIONAL FIXTURES OVER AND ABOVE THOSE SHOWN ON DETAIL NO. 1 ON DRAWING NO. E-6.1.
- (N-2) DISPOSE OF FIXTURES REMOVED AS PART OF THIS SCOPE OF WORK. RECYCLE ALL APPLICABLE COMPOUNDS AS DETAILED IN 'GREEN MEASURES' REQUIREMENTS. PROVIDE DOCUMENTATION SUPPORTING RECYCLING MEASURES.
- (N-3) REWIRE ALL EXISTING TO REMAIN FIXTURES TO ENSURE CONTINUITY OF SERVICES.
- (N-4) DO NOT REUSE EXISTING DIMMERS, SWITCHES, LAMPS, ETC DENOTED AS EXISTING TO BE REMOVED AS PART OF THIS SCOPE OF WORK.
- (N-5) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR MUST PROCURE (ORDER AND PAY FOR) THE SERVICES OF AEVITAS TO DISPOSE OF ALL LAMPS AND BALLASTS REMOVED AS PART OF THIS SCOPE OF WORK IN COMPLIANCE WITH MINISTRY STANDARDS AND ENVIRONMENTALLY SAFE METHODS. ELECTRICAL CONTRACTOR SHALL PROVIDE A SUBMISSION (LETTER) STATING THAT LAMPS AND BALLASTS WERE DISPOSED OF THROUGH ENVIRONMENTALLY SAFE METHODS. THE SUBMISSION BY THE ELECTRICAL CONTRACTOR SHALL INCLUDE THE WAYBILL DETAILING LOCATION OF DISPOSAL AND QUANTITY OF LAMPS AND BALLASTS THAT WERE DISPOSED.
- (N-6) ALL EXISTING CIRCUITS SHOWN ARE FOR REFERENCE PURPOSES ONLY. CONTRACTOR MUST TRACE CIRCUITS AND CONFIRM INFORMATION PRIOR TO DISCONNECTION AND REWORKING/ REMOVING OF CIRCUITS.

REFER TO DETAIL NO. 2 ON DRAWING NO. E-1.3 FOR FIXTURE SCHEDULE

1 REFLECTED CEILING DEMOLITION PLAN - BASEMENT LEVEL
E-6.1 SCALE: 1/8" = 1'0"



- (N-1) BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF 2 ADDITIONAL FIXTURES OVER AND ABOVE THOSE SHOWN ON DETAIL NO. 2 ON DRAWING NO. E-6.1.
- (N-2) DISPOSE OF FIXTURES REMOVED AS PART OF THIS SCOPE OF WORK. RECYCLE ALL APPLICABLE COMPOUNDS AS DETAILED IN 'GREEN MEASURES' REQUIREMENTS. PROVIDE DOCUMENTATION SUPPORTING RECYCLING MEASURES.
- (N-3) REWIRE ALL EXISTING TO REMAIN FIXTURES TO ENSURE CONTINUITY OF SERVICES.
- (N-4) DO NOT REUSE EXISTING DIMMERS, SWITCHES, LAMPS, ETC DENOTED AS EXISTING TO BE REMOVED AS PART OF THIS SCOPE OF WORK.
- (N-5) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR MUST PROCURE (ORDER AND PAY FOR) THE SERVICES OF AEVITAS TO DISPOSE OF ALL LAMPS AND BALLASTS REMOVED AS PART OF THIS SCOPE OF WORK IN COMPLIANCE WITH MINISTRY STANDARDS AND ENVIRONMENTALLY SAFE METHODS. ELECTRICAL CONTRACTOR SHALL PROVIDE A SUBMISSION (LETTER) STATING THAT LAMPS AND BALLASTS WERE DISPOSED OF THROUGH ENVIRONMENTALLY SAFE METHODS. THE SUBMISSION BY THE ELECTRICAL CONTRACTOR SHALL INCLUDE THE WAYBILL DETAILING LOCATION OF DISPOSAL AND QUANTITY OF LAMPS AND BALLASTS THAT WERE DISPOSED.
- (N-6) ALL EXISTING CIRCUITS SHOWN ARE FOR REFERENCE PURPOSES ONLY. CONTRACTOR MUST TRACE CIRCUITS AND CONFIRM INFORMATION PRIOR TO DISCONNECTION AND REWORKING/ REMOVING OF CIRCUITS.

REFER TO DETAIL NO. 2 ON DRAWING NO. E-1.3 FOR FIXTURE SCHEDULE

2 REFLECTED CEILING DEMOLITION PLAN - GROUND FLOOR
E-6.1 SCALE: 1/8" = 1'0"

CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
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NO.	ISSUES	DATE	BY
1	ISSUED FOR REVIEW	02/27/18	PC
2	ISSUED FOR FINAL REVIEW	09/03/18	PC
3	ISSUED FOR PERMIT	09/26/18	PC
4	ISSUED FOR TENDER	02/28/24	PC



NO.	REVISIONS	DATE	BY

HCC ENGINEERING
DESIGN AND TECHNOLOGY SERVICES GROUP
HCC ENGINEERING LIMITED
40 EGLINTON AVENUE EAST, SUITE 600
TORONTO, ONTARIO, M4P 3A2
Tel: (416) 952-2423

PROJECT:
INTERIOR ALTERATIONS TO EXISTING FIRE HALL
553 KINGSTON ROAD,
PICKERING, ONTARIO
CITY OF PICKERING CULTURE
& RECREATION DEPARTMENT

DRAWING:
**REFLECTED CEILING
DEMOLITION PLANS**



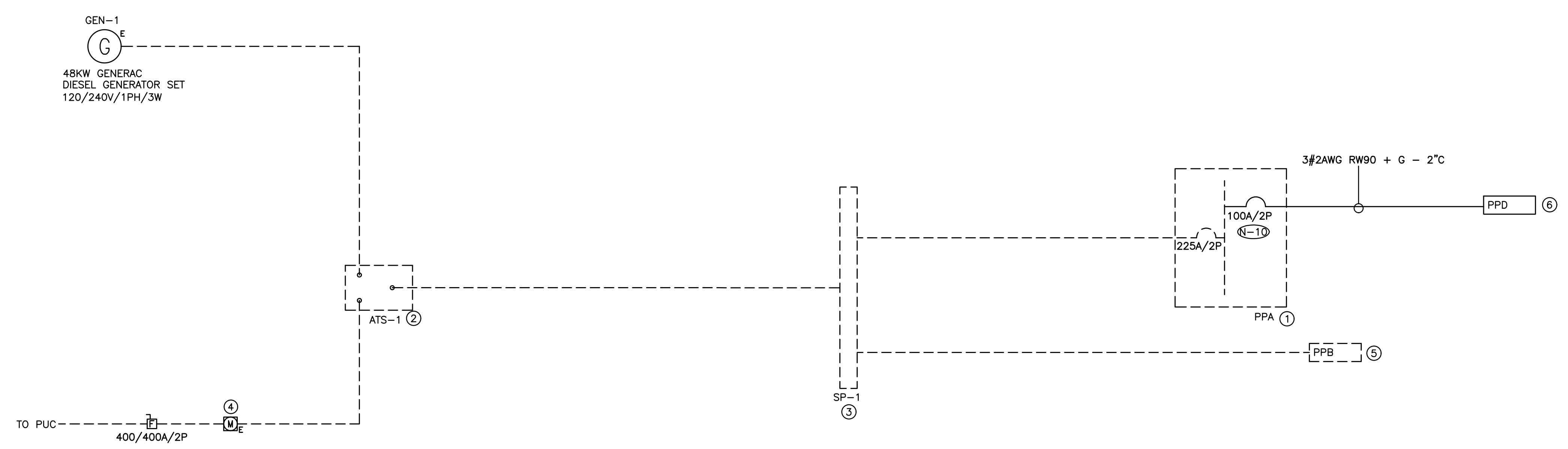
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CHECKED BY: HDC	INITIAL:
DATE: FEBRUARY 2018	SCALE: AS SHOWN
FILE:	

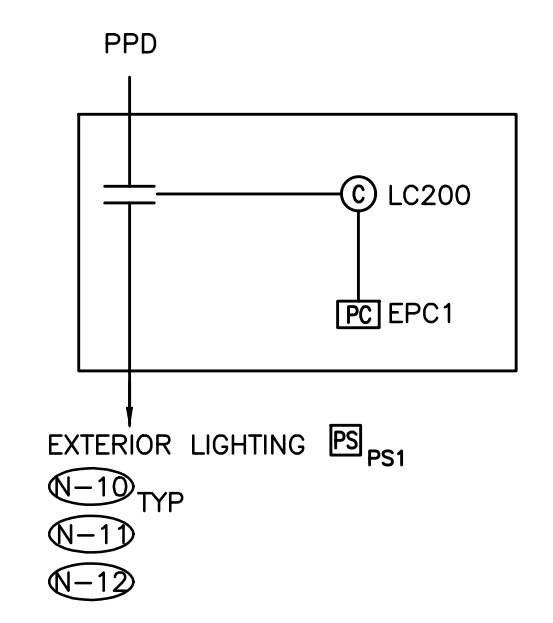
PROJECT NO: **17264**
DRAWING NO: **E-6.1**

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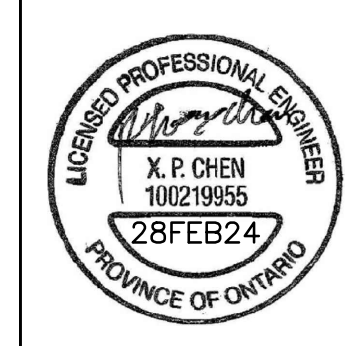
- (N-1) RISER IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR DEVICE QUANTITY AND LOCATIONS.
- (N-2) PROVIDE FIRE RATED PLYWOOD BACKBOARDS FOR ALL ELECTRICAL DISTRIBUTION EQUIPMENT PROVIDED AS PART OF THIS CONTRACT AND FOR ALL PREPURCHASED / PREQUALIFIED DISTRIBUTION. PAINT BACKBOARDS WITH FIRE RETARDANT PAINT (COLOUR AS DIRECTED ON SITE BY PROJECT MANAGER). FIRE RATED STAMP MUST BE ON ALL PIECES PROVIDED AND MUST BE VISIBLE WHEN INSTALLED. DO NOT PAINT OVER STAMP.
- (N-3) ALL INDOOR DISTRIBUTION PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE TYPE 2 ENCLOSURE. PROVIDE COMPRESSION FITTINGS FOR SERVICES ENTERING DISTRIBUTION.
- (N-4) CONFIRM BREAKER/FUSE AND RECEPTACLE/DISCONNECT REQUIREMENTS PRIOR TO INSTALLATION.
- (N-5) PROVIDE TEMPORARY POWER AND LIGHTING THROUGHOUT PROJECT TO ACCOMMODATE REQUIREMENTS OF ALL TRADES. REQUIREMENTS INCLUDE PROVIDING EXTENSION CORDS, EXTENSION LIGHTING AND EQUIPMENT REQUIRED FOR THE WORK OF ALL TRADES. ALL COSTS RELATED TO THIS WORK SHALL BE INCLUDED IN THE BASE BID PRICE.
- (N-6) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE ALL INSTALLATION REQUIREMENTS. REFER TO MECHANICAL DRAWINGS AND DESIGNER DRAWINGS FOR ADDITIONAL DETAILS.
- (N-7) SEAL ALL CONDUITS AT ELECTRICAL ROOM END AND AT TENANT SPACE END.
- (N-8) ALL BREAKERS REQUIRED TO COMPLETE ALL SCOPES OF WORK TO BE NEW. DO NOT REUSE EXISTING BREAKERS.
- (N-9) CONFIRM BREAKER AND RECEPTACLE REQUIREMENTS PRIOR TO ORDERING DISTRIBUTION.
- (N-10) PROVIDE NEW BREAKER INDICATED. PROVIDE MOUNTING HARDWARE TO ACCOMMODATE EXISTING PANEL BUS. PROVIDE LUGS TO ACCOMMODATE WIRE SIZE INDICATED. PROVIDE THE SERVICES OF A PANEL MANUFACTURER TO EXTEND, REWORK, MODIFY AND RECERTIFY EXISTING PANEL BUS AS REQUIRED TO FACILITATE INSTALLATION OF BREAKER PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-11) PROVIDE REQUIRED PENETRATIONS THROUGH ROOF AND BUILDING ENVELOP. COORDINATE WORK AND WEATHERPROOF SEALING REQUIREMENTS WITH LANDLORD.
- (N-12) PROVIDE A PHOTOCELL (TORK #LC200 COMPLETE WITH ROOFTOP MOUNTED SENSOR UNIT #EPC1) TO CONTROL ALL EXISTING EXTERIOR LIGHTING AND NEW LIGHTING PROVIDED AS PART OF THIS SCOPE OF WORK. PROVIDE CONTACTOR, DVR, ETC AS REQUIRED TO CONTROL ALL OUTDOOR LIGHTING. PHOTOCELL AND CONTACTOR CCT #PPD-12
- (N-13) PROVIDE OVERRIDE SWITCH FOR PHOTOCELL TO TURN LIGHTS OFF AT NIGHT. COORDINATE EXACT MOUNTING LOCATION OF OVERRIDE SWITCH ON SITE WITH PROJECT MANAGER. REFER TO DRAWING DETAIL NO. 2 ON DRAWING NO. E-3.1 FOR ADDITIONAL REQUIREMENTS.

- ① EXISTING RECEPTACLE PANEL - 120/240V/1PH/3W/225A MCB/42CCT/10KA RMS/SQD NQOB
- ② EXISTING AUTOMATIC TRANSFER SWITCH - 120/240V/1PH/3W/100KA RMS/EATON ATC-300
- ③ EXISTING SPLITTER - 120/240V/1PH/3W/400A
- ④ EXISTING METER CABINET
- ⑤ EXISTING RECEPTACLE PANEL - 120/240V/1PH/3W/200A MCB/30CCT/10KA RMS/SQD NQOB
- ⑥ RECEPTACLE PANEL - 120/240V/1PH/3W/100A MCB/42 CCT 20\"/>



————— DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
 - - - - - DENOTES EXISTING TO REMAIN
 -X-X-X-X-X- DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

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PROJECT:
INTERIOR ALTERATIONS TO EXISTING FIRE HALL
 553 KINGSTON ROAD,
 PICKERING, ONTARIO
 CITY OF PICKERING CULTURE
 & RECREATION DEPARTMENT

DRAWING:
ELECTRICAL SINGLE LINE DIAGRAM

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DESIGN BY: PC	DOC CONTROL: DATE:
DRAWN BY: TLR	% COMPLETE:
CHECKED BY: HDC	INITIAL:
DATE: FEBRUARY 2018	
SCALE: NTS	
FILE:	

PROJECT NO: **17264**
 DRAWING NO: **E-7.1**