

ADDENDUM

Project Name:	Kosciuszko Middle School Toilet Room Upgrades	Addendum No:	One (1)
Project Number:	16-118	Issue Date:	April 29, 2016
Project Location:	Hamtramck, Michigan		

To the Contract Documents for the requested Kosciuszko Middle School Toilet Room Upgrades

This Addendum forms a part of the above described Contract Documents and supersedes, supplements or clarifies parts thereof to the extent defined by the terms set forth in this Addendum.

This addendum consists of (2) typed pages and the following attachments:

Drawings: Architectural: A0-04, A3-01, A4-01 and A9-01 (4 drawings)
Mechanical: P100 and P101 (2 drawings)
Electrical: E101 and E600 (2 drawing)

SPECIFICATIONS

Item SP1 Specification Section 000200 – Material Finish / Color Schedule (Issued)
A. Added Material Finish / Color Schedule in it's entirety

ARCHITECTURAL DRAWINGS:

Item A1 Drawing A0-04; Schedules, Door, Frame and Wall Types (revised and reissued this Addendum)
A. Revised Room Finish Schedule as indicated
B. Added signage schedule and details

Item A2 Drawing A3-01; Partial New Work Floor Plans (revised and reissued this Addendum)
A. Revised floor plans as indicated
B. Added interior elevation
C. Added section detail 6/A3-01

Item A3 Drawing A4-01; Partial Reflected Ceiling Plans (revised and reissued this Addendum)
A. Revised ceiling plans as indicated

Item A4 Drawing A9-01; Partial Reflected Ceiling Plans (revised and reissued this Addendum)
A. Revised finish floor plans as indicated

MECHANICAL DRAWINGS:

Item M1 Drawing P-100; Partial Underground Plumbing Plan (revised and reissued this Addendum)
A. Add electric water cooler (EWC-1) sanitary piping Area A
B. Clarify EWC-1 sanitary piping in Area B

- C. Revised domestic hot water and cold water piping serving boys and girls restrooms in Area A and Area B to route underground.
- D. Revised key note 1 to include hot and cold water piping

- Item M2 Drawing P-101 First Floor Plumbing Plan (revised and reissued this Addendum)
- A. Added electric water cooler (EWC-1) in Area A
 - B. Revised domestic hot and cold water piping serving the boys and girls restrooms in Areas A and B to route underground

ELECTRICAL DRAWINGS:

- Item E1 Drawing E101; Partial First Floor Electrical Plan (revised and reissued this addendum)
- A. Added EWC-1 in Area A
 - B. Added receptacle and key note for Alternate No.1

- Item E1 Drawing E-600; Electrical, Details and Schedules (revised and reissued this addendum)
- A. Update panel schedule to accommodate modifications to plans

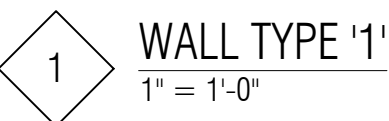
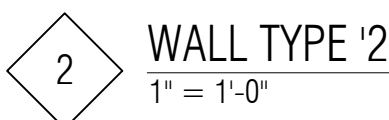
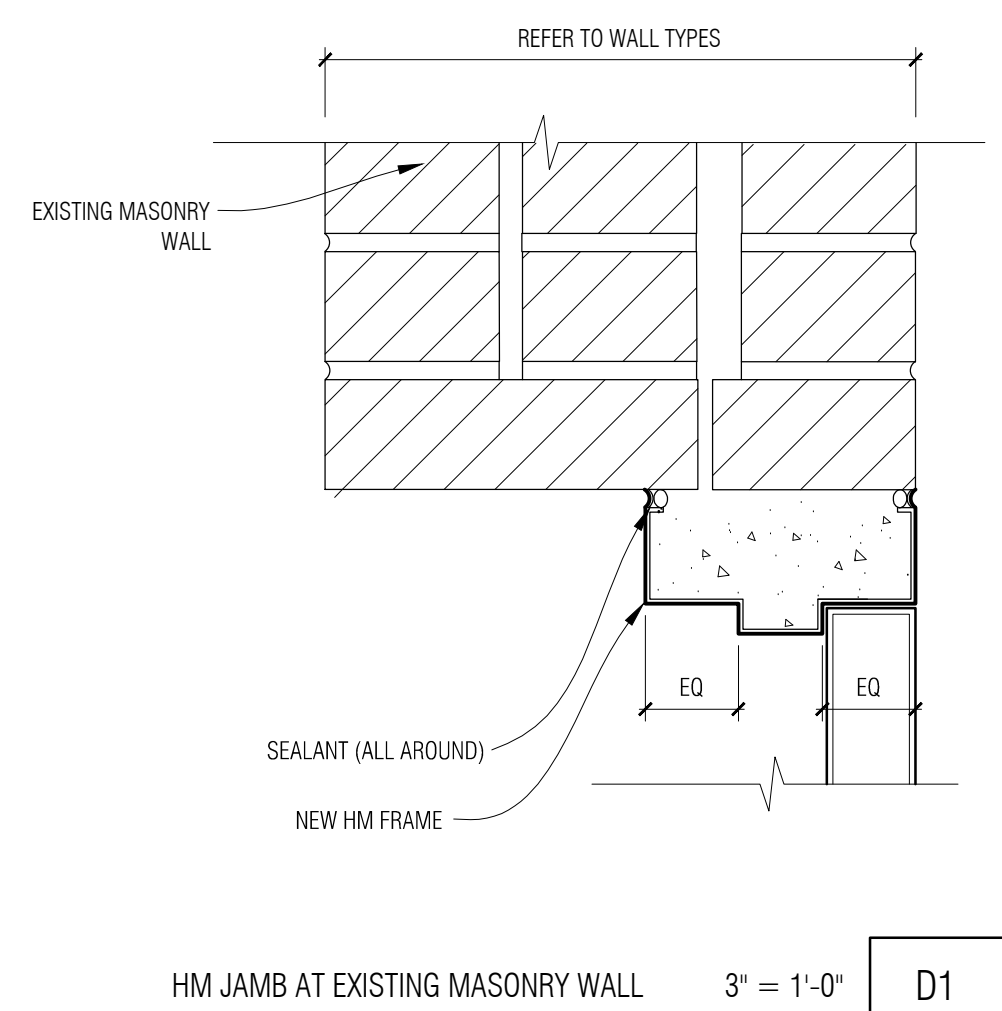
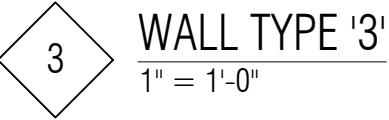
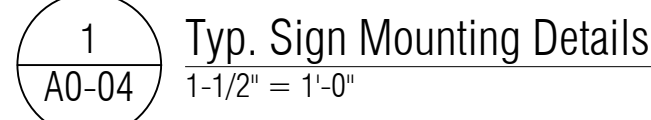
****END OF ADDENDUM****


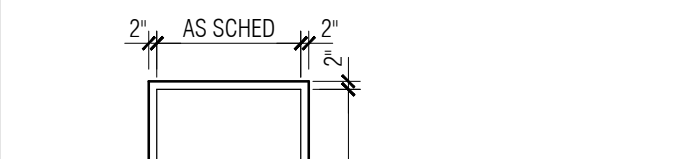
MATERIAL FINISH / COLOR SCHEDULE

PARTNERS 16-118
MATERIAL SCHEDULE
000200-1

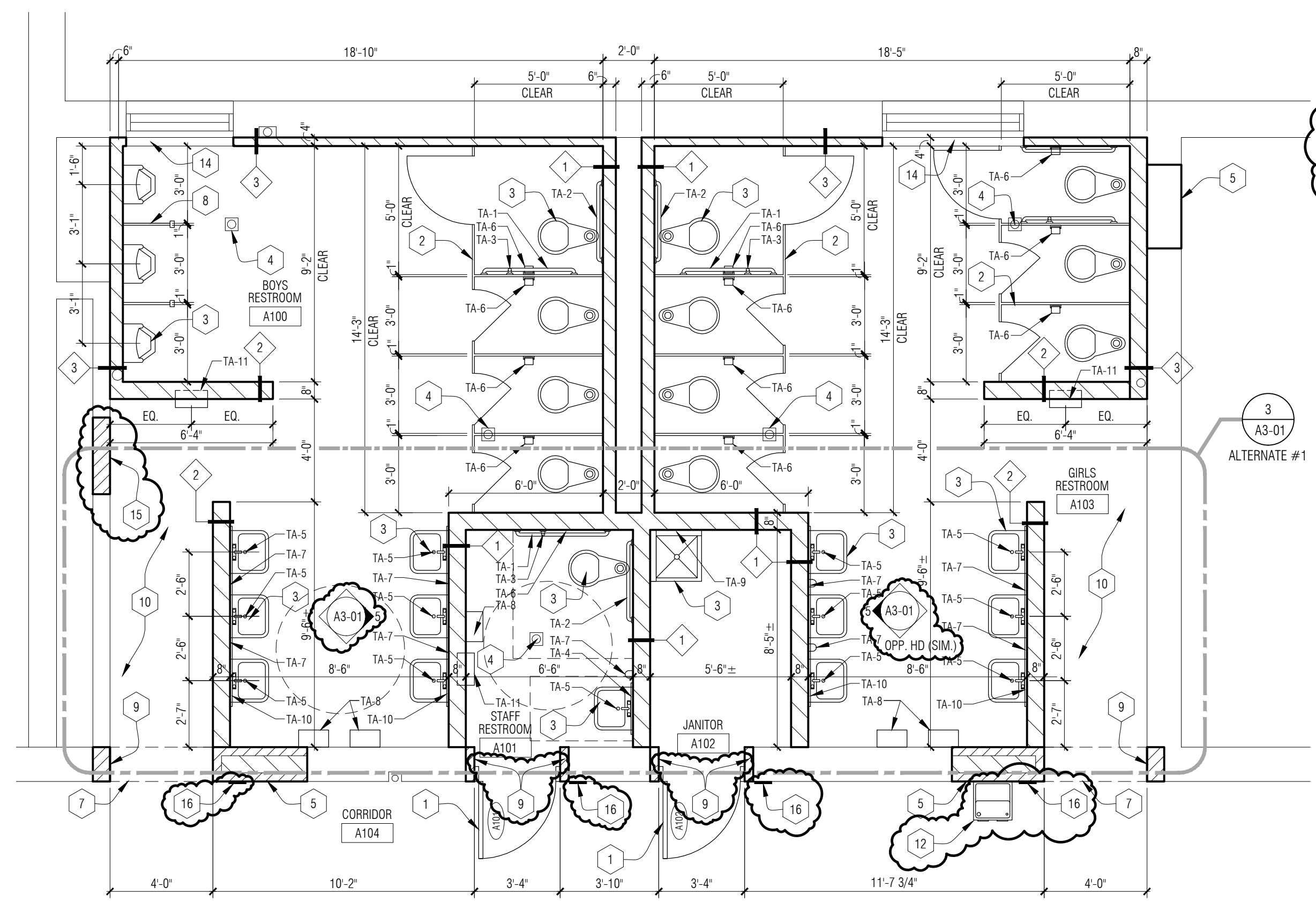
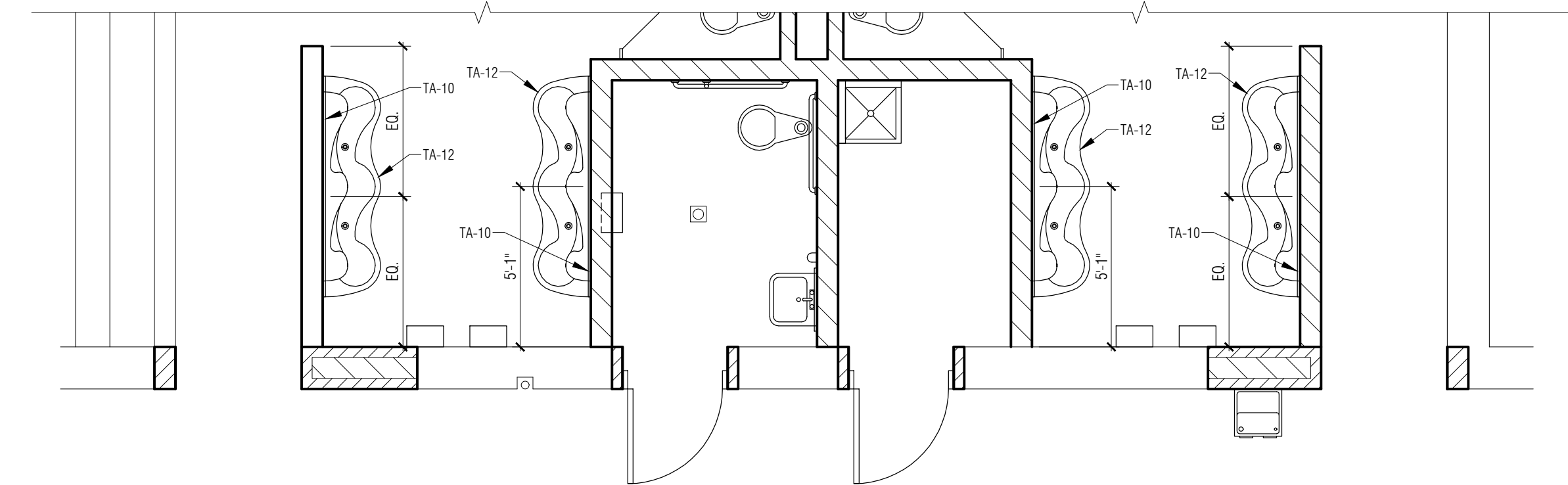
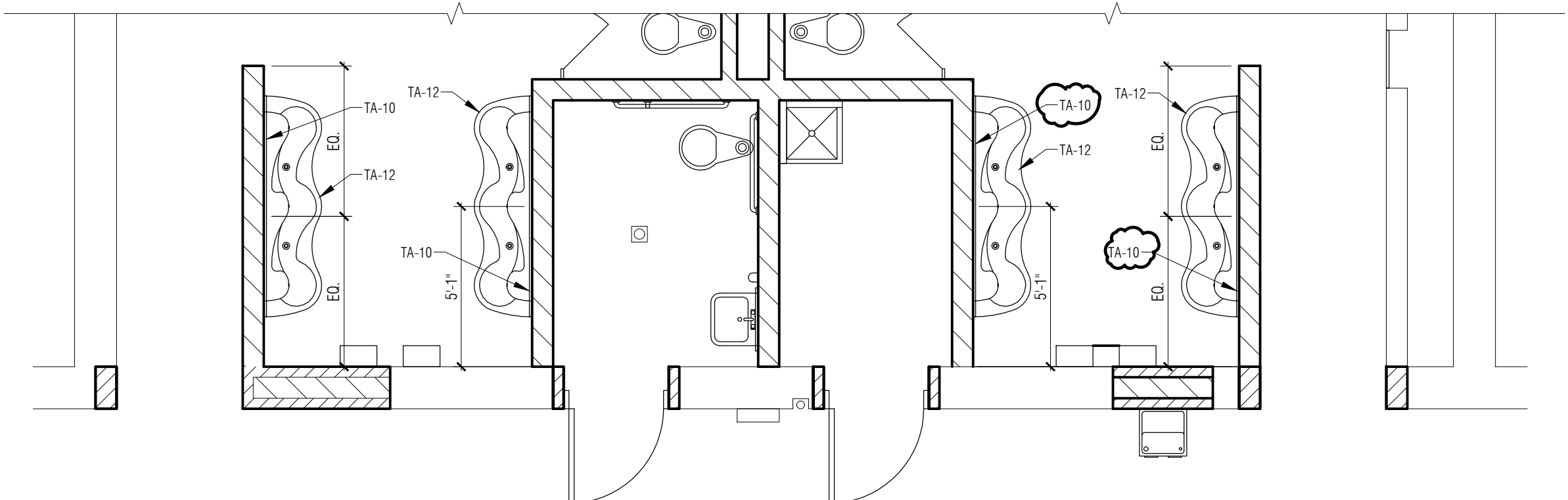
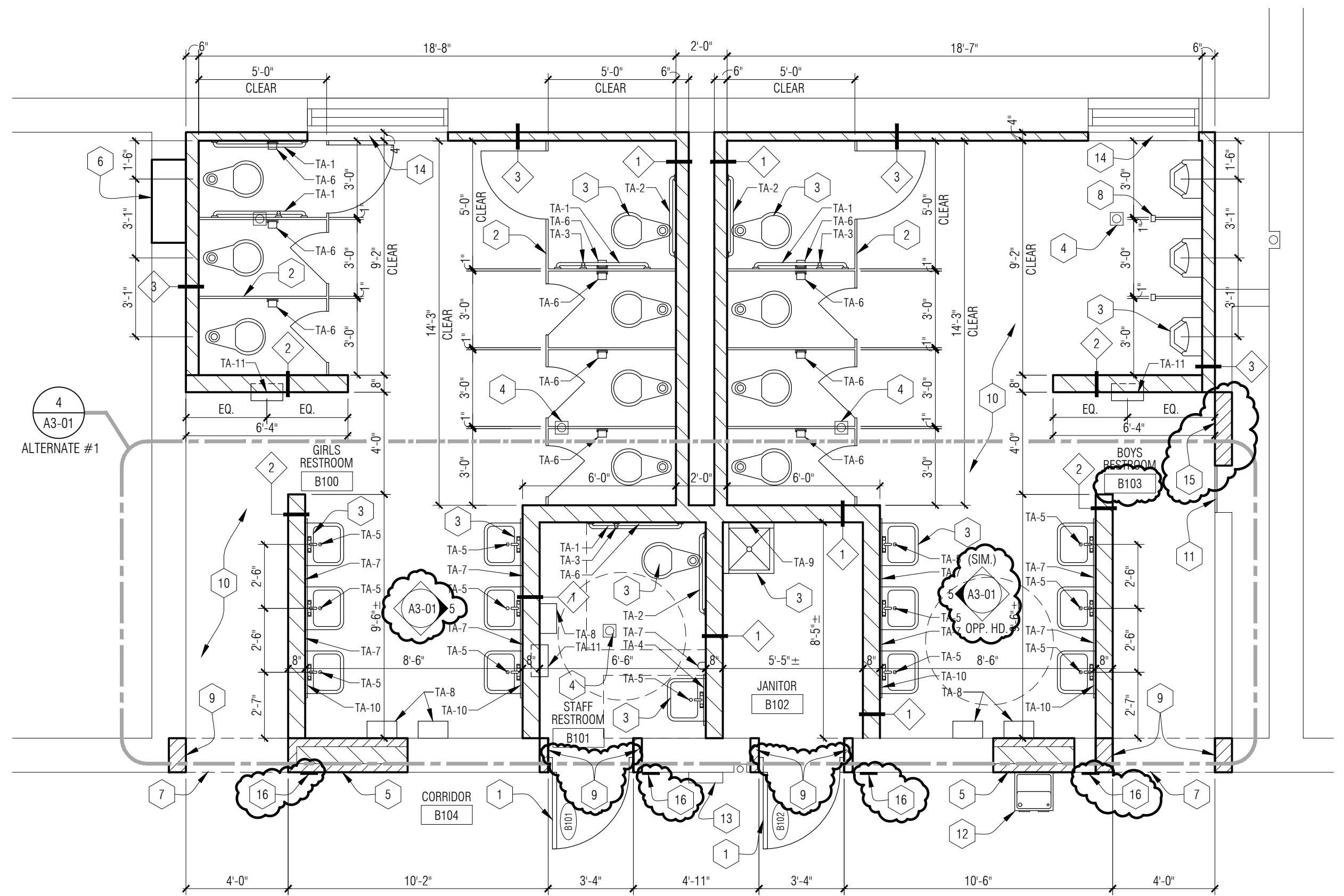
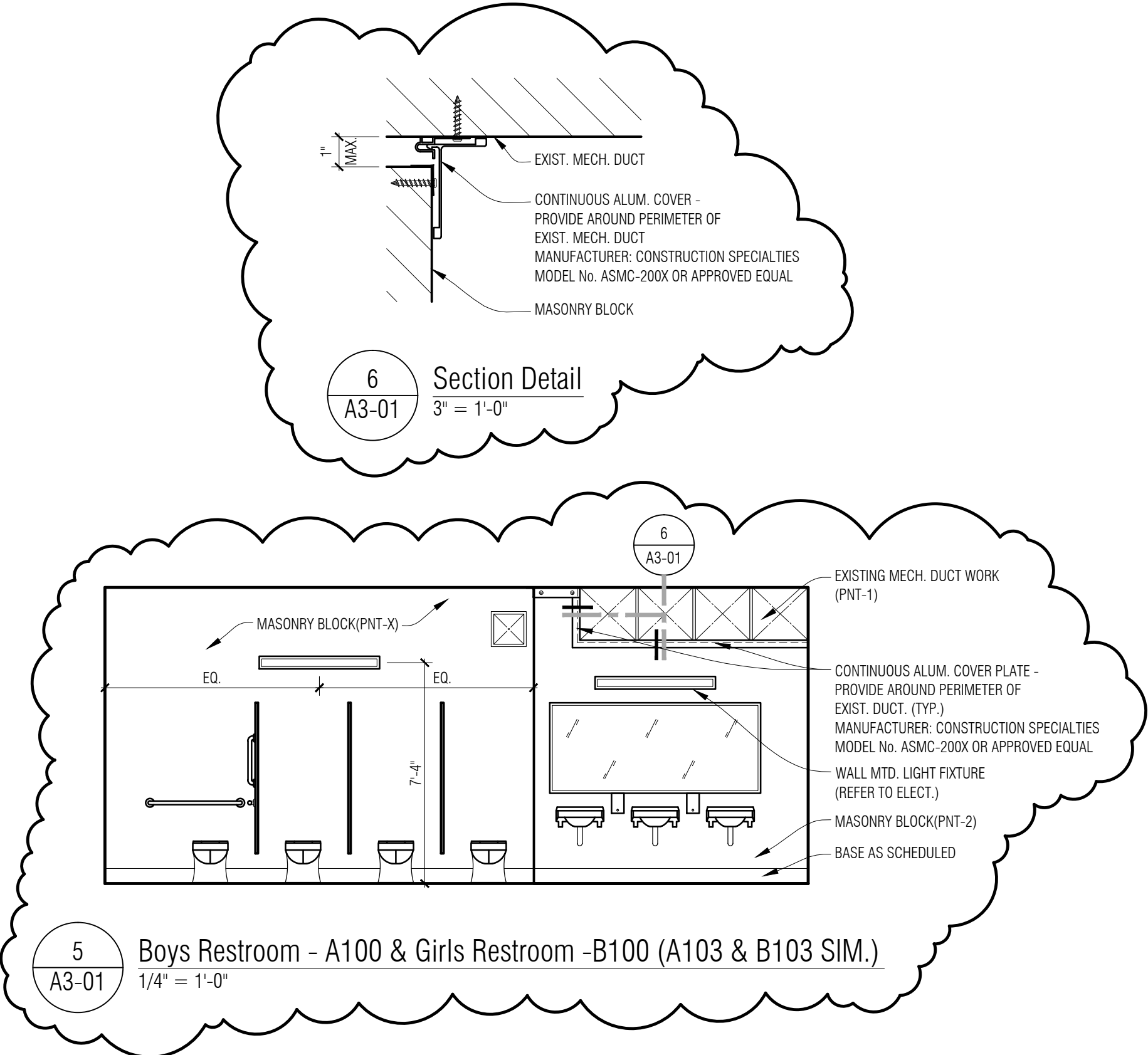
Spec Section	Item	Description	Product Specified	Finish / Color	Location <i>(refer to drawings for exact locations)</i>	Remarks
099123	INTERIOR PAINTING					
	PNT-1	Paint	Sherwin Williams	SW6531 - Indigo	Door and Frames	
	PNT-2	Paint	Sherwin Williams	SW7557 - Summer White	Wall - Field	
	PNT-3	Paint	Sherwin Williams	SW7005 - Pure White	Ceilings	
	PNT-4	Paint	Sherwin Williams	SW6387 - Compatible Cream	Walls - Accent	
	PNT-5	Paint	Sherwin Williams	SW7005 - Pure White	Ceilings	
	PNT-6	Paint	Sherwin Williams	Match existing accent wainscoting	Corridor	
	PNT-7	Paint	Performance Epoxy Coat	Refer to spec	Toilet Rooms, Janitor	

APRIL 22, 2016
BIDDING / CONSTRUCTION

[illegible]

Door Types	Frame Types
 <p>Diagram of a door type (F) showing a rectangular door with dimensions "AS SCHED" for both width and height. The bottom edge is labeled "F. FLOOR".</p>	 <p>Diagram of a frame type (F1) showing a rectangular frame with dimensions "AS SCHED" for both width and height. The bottom edge is labeled "F. FLOOR". The frame has a double-line border with a gap of "2"</p>

A. REFER TO WALL SECTIONS AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.



FLOOR PLAN - GENERAL NOTES:

- A. ALL PLAN DIMENSIONS ARE NOMINAL TO FACE OF WALL. WALL THICKNESSES ARE SHOWN NOMINAL - SEE WALL TYPES FOR ACTUAL THICKNESS.
- B. COORDINATE SIZE AND LOCATION OF ALL DUCT, SHAFT AND LOUVER OPENINGS IN WALLS AND FLOORS WITH MECHANICAL AND ELECTRICAL. PROVIDE ALL REQUIRED LINTELS FOR OPENINGS.
- C. ALL EXPOSED CORNERS OF MASONRY BLOCK ARE TO BE BULLNOSED.
- D. DO NOT SCALE DRAWINGS. USE DIMENSIONS PROVIDED. IF A CONFLICT IS ENCOUNTERED OR A REQUIRED DIMENSION IS NOT PROVIDED, REQUEST A CLARIFICATION FROM THE ARCHITECT.
- E. EXISTING MASONRY WALL INTERSECTIONS WHICH ARE LEFT EXPOSED AFTER DEMOLITION OF ADJACENT MASONRY CONSTRUCTION MUST BE PATCHED AND REPAIRED WITH NEW MASONRY OR EXISTING BRICK VENEER. TOOTH-IN TO MATCH EXISTING COURSING AND BOND PATTERN, TYPICAL AT ALL LOCATIONS.
- F. FIRE RATED PARTITIONS ARE INDICATED ON CODE PLANS.
- G. REFER TO MECHANICAL / ELECTRICAL DRAWINGS FOR INSTALLATION OF NEW EQUIPMENT, WIRING, ETC. AT EXISTING WALLS. ALL ITEMS ARE TO BE INSTALLED WITHIN EXISTING WALLS - REMOVE AND REINSTALL MASONRY (TOOTH-IN) AT ALL LOCATIONS.
- H. REFER TO MECHANICAL / ELECTRICAL DRAWINGS FOR REMOVAL OF EXISTING EQUIPMENT WITHIN EXISTING CONSTRUCTION - TOOTH-IN NEW MASONRY BLOCK AND PREP FOR NEW FINISH.
- I. FIELD VERIFY ALL EXISTING OPENINGS TO RECEIVE NEW WORK PRIOR TO FABRICATION OF ANY FRAME TYPES - NOTIFY ARCHITECT OF ANY DISCREPANCIES.

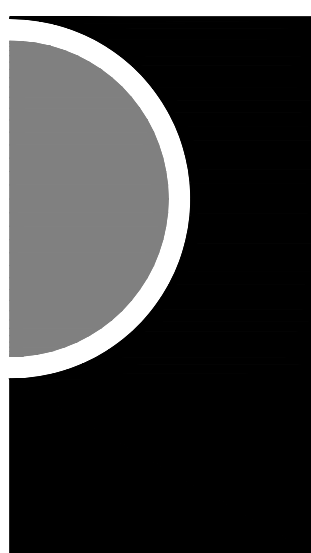
FLOOR PLAN - KEY NOTES:

- 1 NEW H.M. DOOR AND H.M. FRAME IN NEW OPENING - REFER TO DOOR SCHEDULE - COORDINATE WITH FIELD CONDITIONS
- 2 TOILET PARTITION SYSTEM
- 3 PLUMBING FIXTURE - COORDINATE WITH MECHANICAL
- 4 FLOOR DRAIN - COORDINATE WITH MECHANICAL
- 5 TOOTH-IN NEW BRICK AND BLOCK MASONRY AT AREA OF REMOVED WALL TO MATCH EXISTING - COORDINATE WITH EXISTING FIELD CONDITIONS - MATCH BRICK COURSING
- 6 TOOTH-IN NEW BRICK AND BLOCK MASONRY AT AREA OF REMOVED DOOR AND FRAME TO MATCH EXISTING - COORDINATE WITH EXISTING FIELD CONDITIONS - MATCH BRICK COURSING
- 7 NEW OPENING IN EXISTING MASONRY WALL
- 8 URINAL SCREEN SYSTEM
- 9 TOOTH-IN NEW BRICK AT AREA OF NEW MASONRY OPENING TO MATCH EXISTING - COORDINATE WITH EXISTING FIELD CONDITIONS - MATCH EXISTING BRICK COURSING
- 10 NEW EPOXY FLOOR FINISH
- 11 NEW WALL RETURN AIR GRILLE (LOW ON WALL) PAINT TO MATCH WALL COLOR
- 12 NEW DRINKING FOUNTAIN - COORDINATE WITH MECHANICAL
- 13 EXISTING ELECTRICAL PANEL - PROTECT DURING CONSTRUCTION PHASE
- 14 SOLID MASONRY BLOCK WINDOW SILL W/ 1" BULLNOSE EDGE
- 15 TOOTH-IN NEW BRICK AND BLOCK MASONRY AT AREA OF REMOVED EXHAUST FAN (HIGH ON WALL) COORDINATE WITH MECHANICAL
- 16 ROOM IDENTIFICATION SIGNAGE - REFER TO DRAWING A0-04 FOR SCHEDULE AND DETAILS

LEGEND - TOILET ACCESSORIES

- TA-1 42" GRAB BAR (HORIZONTAL)
- TA-2 36" GRAB BAR (HORIZONTAL)
- TA-3 18" GRAB BAR (VERTICAL)
- TA-4 24"W X 36"H MIRROR
- TA-5 UNDER-LAVATORY GUARD
- TA-6 TOILET TISSUE DISPENSER
- TA-7 SOAP DISPENSER
- TA-8 ELECTRIC HAND DRYER
- TA-9 MOP AND BROOM HOLDER - 3 HOLDERS
- TA-10 36"H x 84"W MIRROR
- TA-11 SEMI-RECESSED WASTE RECEPTACLE
- TA-12 LAVATORY SYSTEM - SEE MECHANICAL (ALTERNATE #1)

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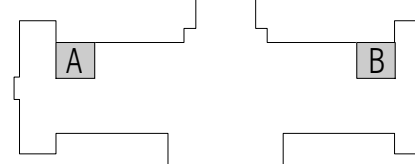


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KEY PLAN



OWNER

Hamtramck Public Schools

PROJECT NAME

Kosciuszko Middle School
Toilet Room Upgrades

2333 Burger
Hamtramck, MI 48212

PROJECT NO.

16-118

ISSUES / REVISIONS

Bidding - Construction 04/22/2016
Addendum No.1 04/29/2016

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ACS

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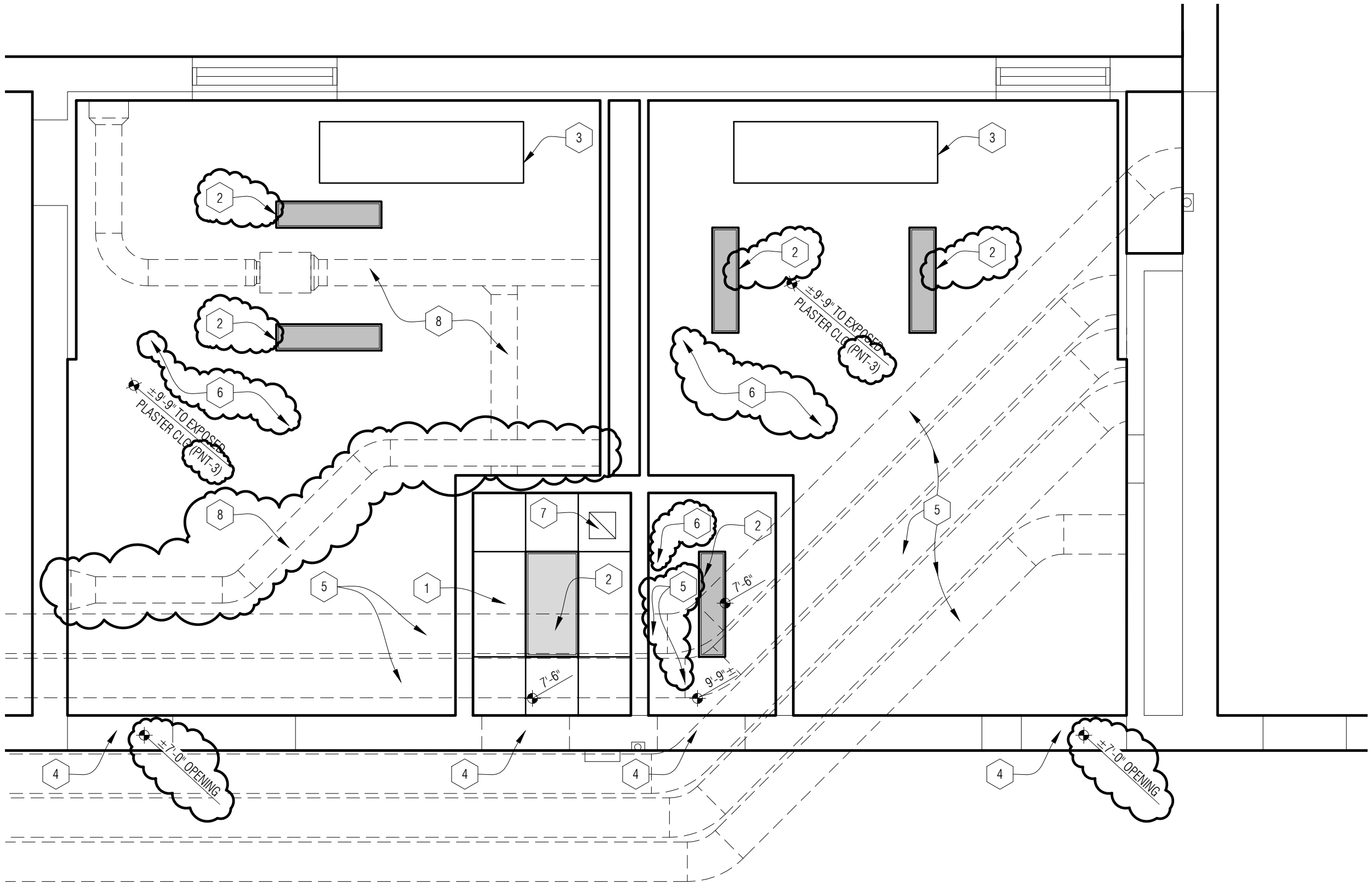
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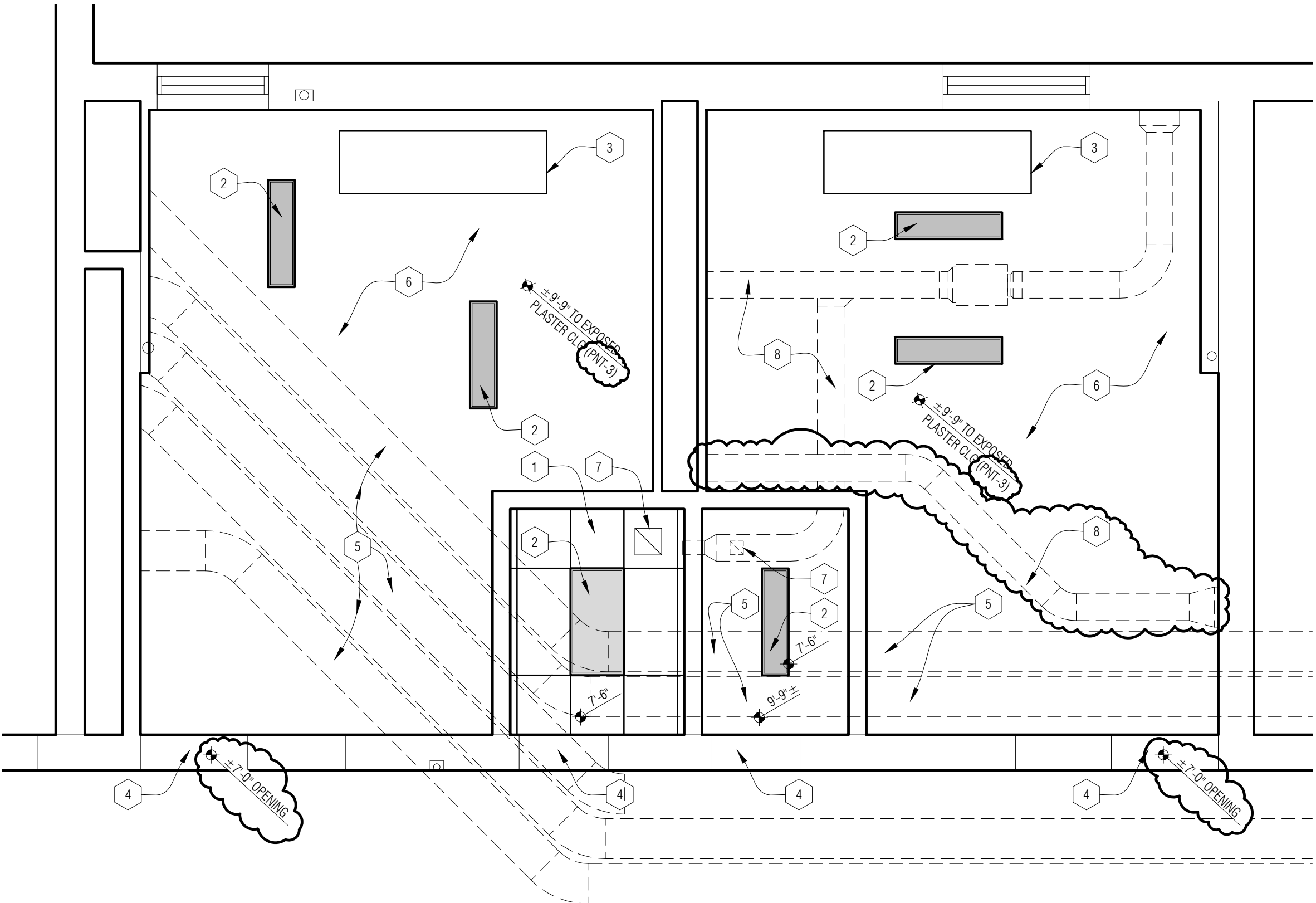
PARTIAL NEW WORK FLOOR PLANS

SHEET NO.

A3-01



2
A4-01
Partial Reflected Ceiling Plan - Area B
1/4" = 1'-0"



1
A4-01
Partial New Work Floor Plan - Area A
1/4" = 1'-0"

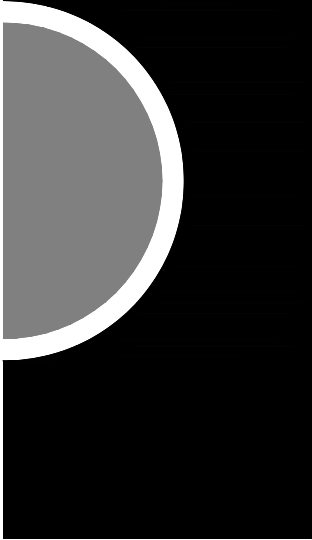
REFLECTED CEILING PLAN - GENERAL NOTES:

- A. REFER TO FLOOR PLANS FOR ROOM NAMES, NUMBERS AND ROOM DIMENSIONS.
- B. REFER TO ELECTRICAL FOR LIGHT FIXTURE TYPES AND SPECIFICATIONS.
- C. REFER TO MECHANICAL FOR DIFFUSERS, REGISTERS, AND RETURNS.
- D. ALL LIGHT FIXTURES ARE TO BE CENTERED WITHIN CEILING TILE AND GYP SOFFIT U.O.N.
- E. CEILING GRID IS TO BE CENTERED IN ROOM U.O.N.
- F. COORDINATE EXACT LOCATION OF LIGHT FIXTURES BETWEEN TRADES

REFLECTED CEILING PLAN - KEY NOTES:

- 1 ACOUSTICAL CEILING TILE AND GRID (ACT-1).
- 2 LIGHT FIXTURE - COORDINATE WITH ELECTRICAL
- 3 EXISTING CEILING MOUNTED RADIATOR TO REMAIN - PREP AND CLEAN MTL TO RECEIVE NEW PAINT COLOR - PAINT COMPLETE INCLUDING ALL HANGERS, BRACKETS, ETC (PNT-2)
- 4 EXPOSED STEEL LINTEL - PAINT TO MATCH ADJACENT MASONRY.
- 5 EXISTING DUCTWORK TO REMAIN - PREP AND CLEAN MTL TO RECEIVE NEW PAINT COLOR - PAINT COMPLETE INCLUDING ALL HANGERS, BRACKETS, ETC (PNT-2)
- 6 EXISTING PLASTER TO REMAIN - PREP AND CLEAN CEILING TO RECEIVE NEW PAINT COLOR - PAINT COMPLETE INCLUDING ALL HANGERS, BRACKETS, ETC (PNT-2). PATCH AND REPAIR CEILING AS NEEDED FROM DEMOLITION AND NEW WORK - COORDINATE WITH MECHANICAL AND ELECTRICAL FOR LOCATION AND LIMIT OF WORK
- 7 EXHAUST FAN - REFER TO MECHANICAL
- 8 NEW DUCTWORK (PNT-2) REFER TO MECHANICAL

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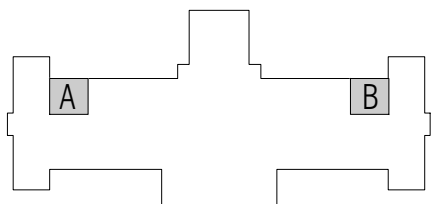
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PROJECT NAME

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Middle School
Toilet Room Upgrades

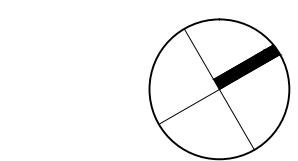
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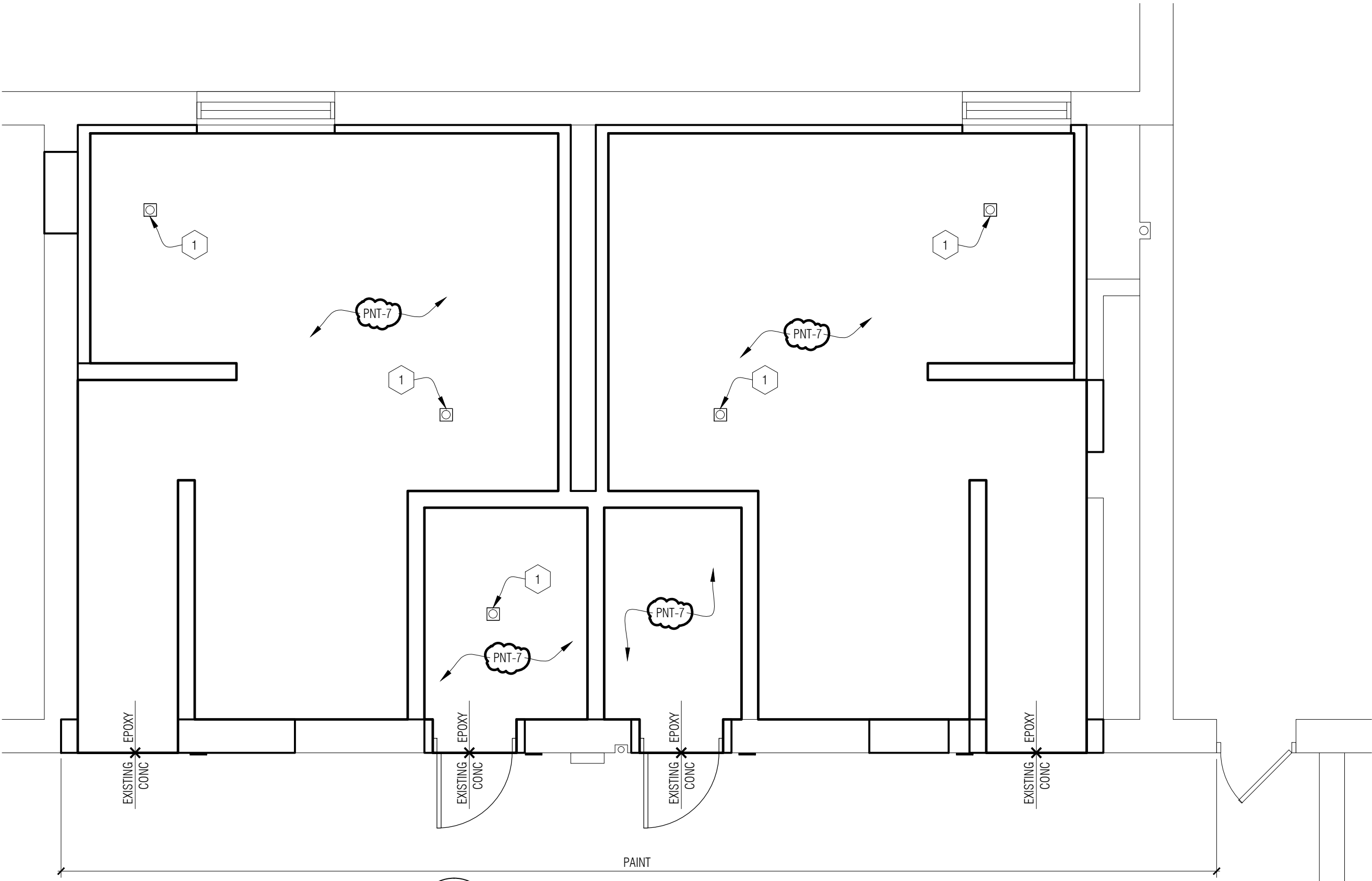
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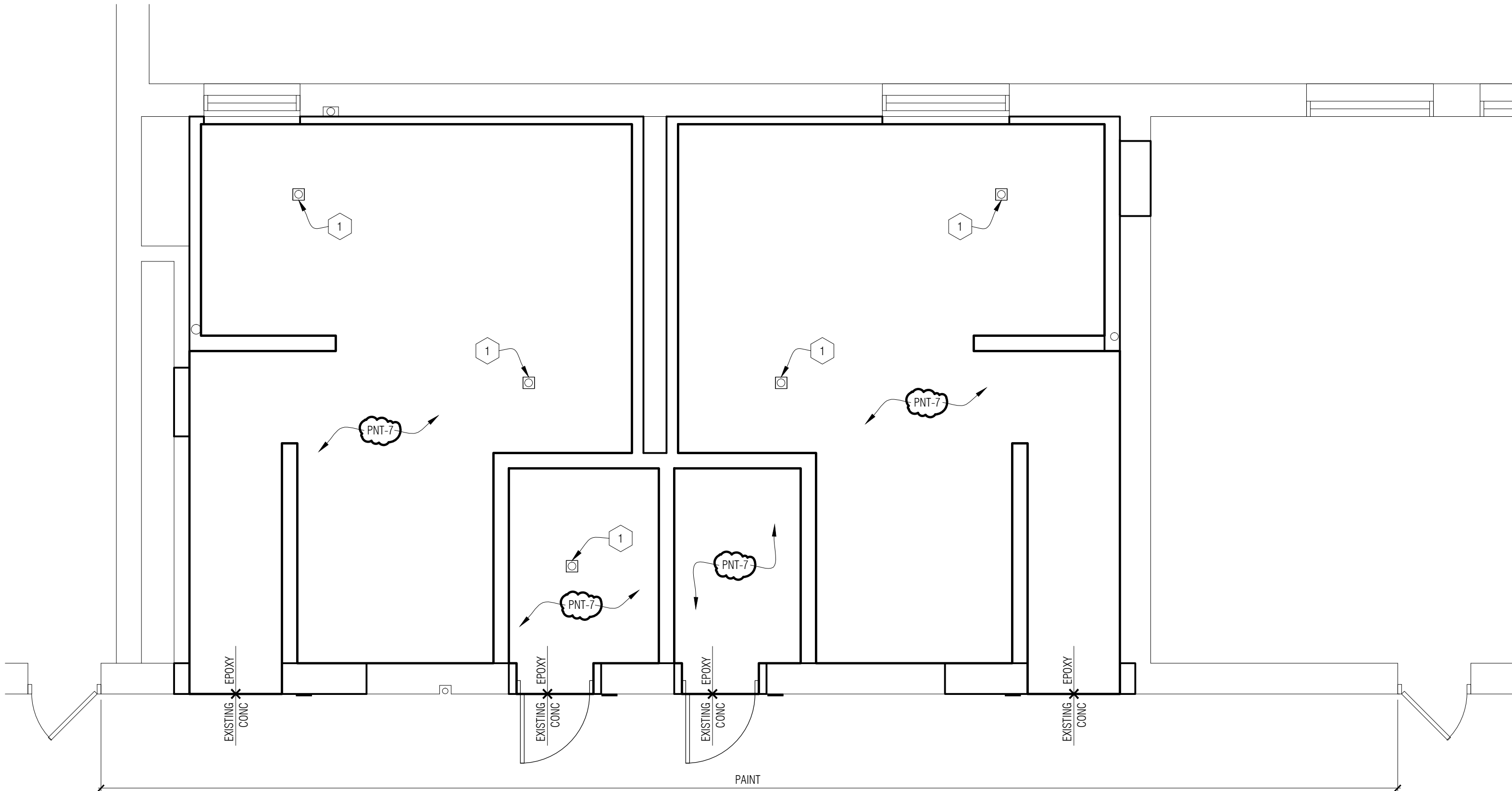
PARTIAL REFLECTED
CEILING PLANS

SHEET NO.

A4-01



2
A3-01 Partial New Work Floor Plan - Area B
1/4" = 1'-0"



1
A3-01 Partial New Work Floor Plan - Area A
1/4" = 1'-0"

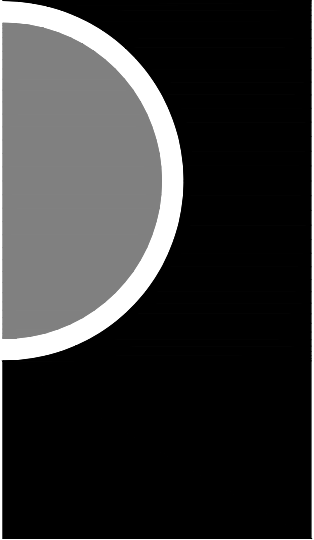
FINISH FLOOR PLAN - GENERAL NOTES:

- A. REFERENCE ROOM FINISH SCHEDULE AND MATERIAL FINISH / COLOR SCHEDULE (SPEC SECTION 000200) FOR ADDITIONAL FINISH INFORMATION.
- B. UNLESS OTHERWISE NOTED, FLOOR FINISHES TRANSITION UNDER THE CENTERLINE OF DOORS (WHEREVER APPLICABLE).

FINISH FLOOR PLAN - KEY NOTES:

- 1 FLOOR DRAIN - REFER TO MECH. PROVIDE POSITIVE SLOPE TO DRAIN - VERIFY LOCATION IN FIELD

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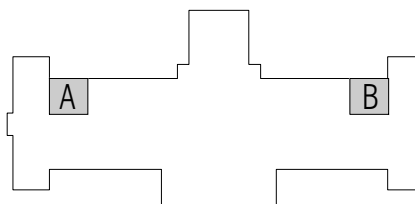
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PROJECT NAME

Kosciuszko
Middle School
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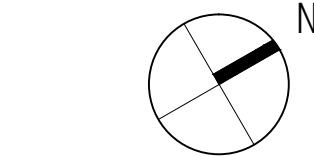
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Addendum No.1 04/29/2016



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PARTIAL FINISH
FLOOR PLANS

SHEET NO.

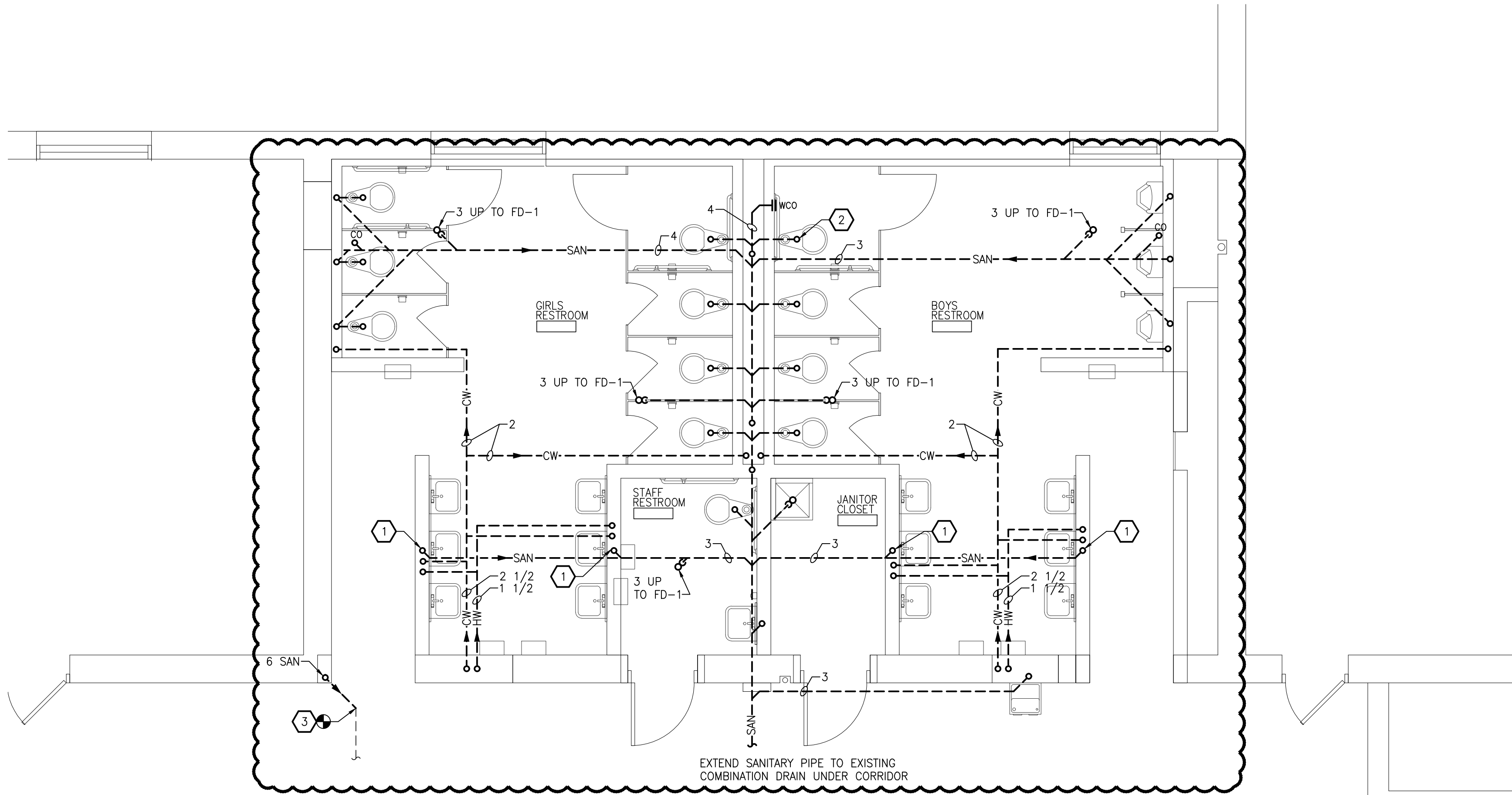
A9-01

PLUMBING GENERAL NOTES

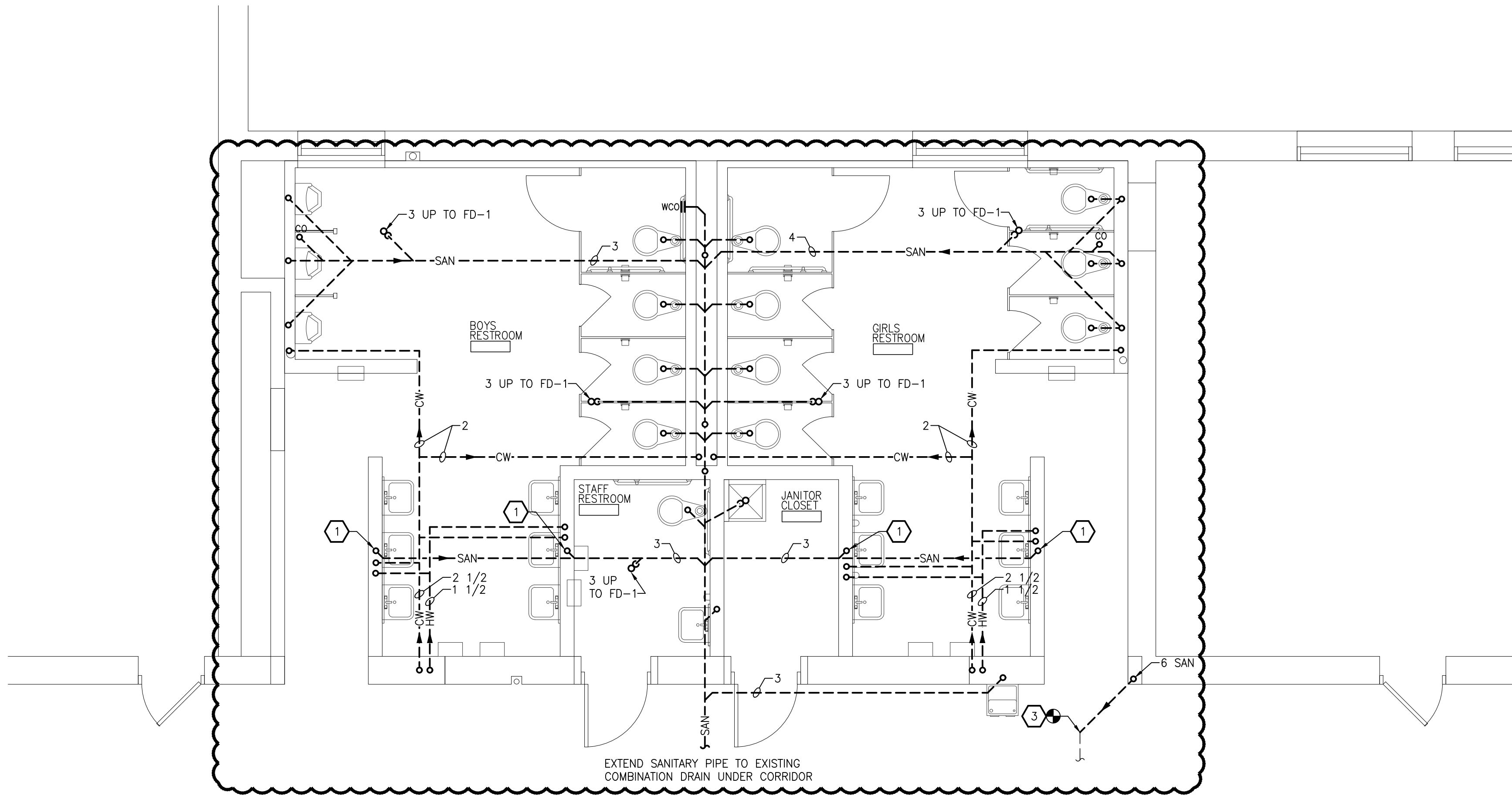
1. THESE DRAWINGS ARE DIAGRAMMATIC & INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, ETC.
2. REFER TO ARCHITECTURAL PLANS FOR SPECIFICATIONS OF AND EXACT LOCATIONS OF FIXTURES (STANDARD AND BARRIER FREE), SINKS, ETC.
3. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
4. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
5. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
6. CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.
7. HOT AND COLD WATER PIPING RUN-OUTS TO LAVS AND SINKS SHALL BE 3/4" UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR FIXTURE CONNECTION SIZES.
8. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
9. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
10. PROVIDE VALVES ON ALL BRANCH PIPING SERVING GROUP TOILET ROOMS. PROVIDE FULL OPEN VALVES AND SHUT OFF VALVES PER PLUMBING CODE.

KEYED NOTES

- 1 3" SANITARY AND 3/4" HOT AND COLD WATER UP TO LAVATORIES. ROUTE PIPING IN WALL. REFER TO FIXTURE SCHEDULE FOR CONNECTION SIZES.
- 2 4" SANITARY UP TO WATER CLOSET.
- 3 RE-CONNECT TO EXISTING 6" SANITARY DRAIN.

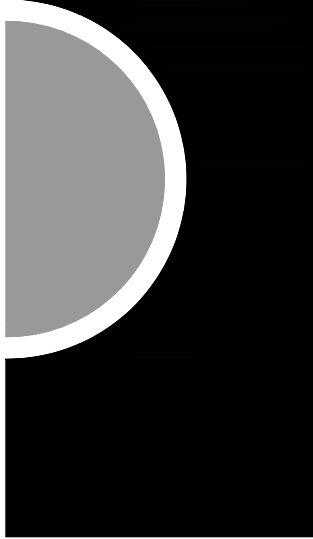


PARTIAL UNDERGROUND PLUMBING PLAN - AREA B
SCALE: 1/4" = 1'-0"



PARTIAL UNDERGROUND PLUMBING PLAN - AREA A
SCALE: 1/4" = 1'-0"

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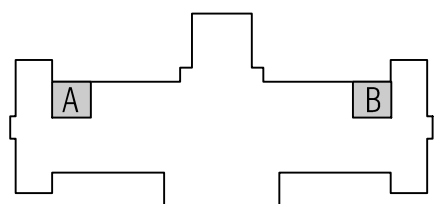
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KEY PLAN



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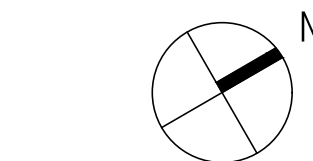
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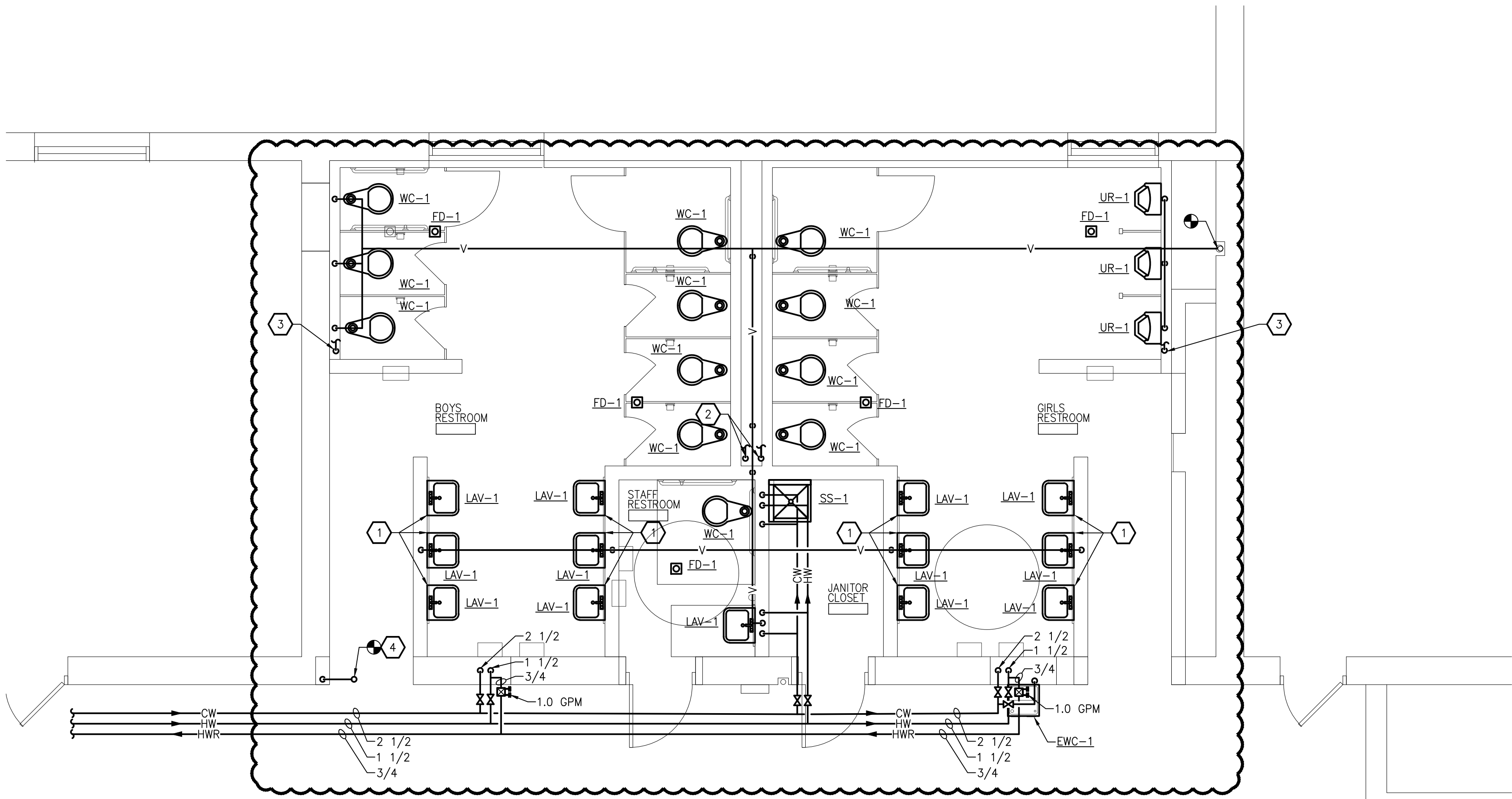
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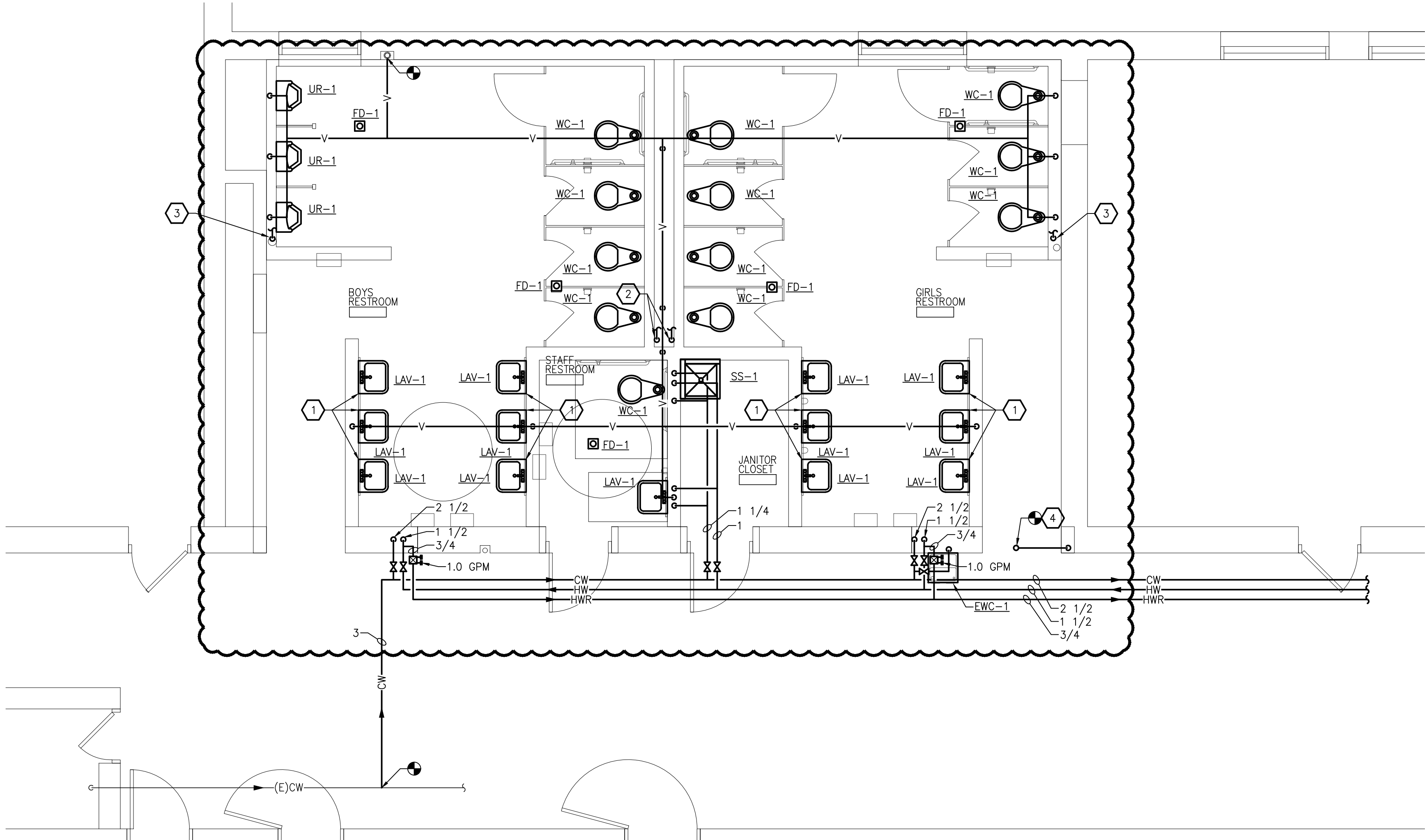
PARTIAL
UNDERGROUND
PLUMBING PLAN

SHEET NO.

P100



PARTIAL FIRST FLOOR PLUMBING PLAN - AREA B
SCALE: 1/4" = 1'-0"



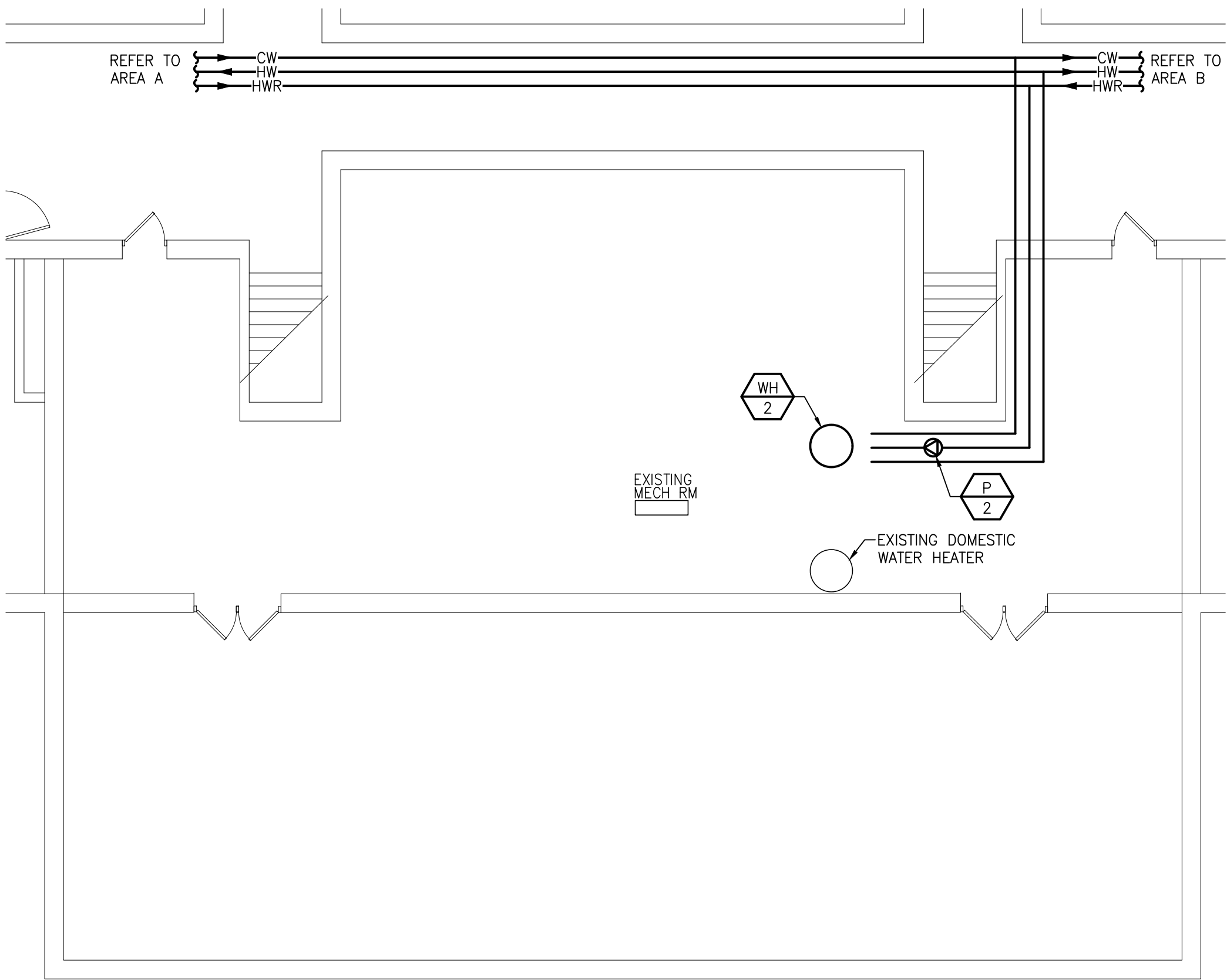
PARTIAL FIRST FLOOR PLUMBING PLAN - AREA A
SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC & INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, ETC.
2. REFER TO ARCHITECTURAL PLANS FOR SPECIFICATIONS OF AND EXACT LOCATIONS OF FIXTURES (STANDARD AND BARRIER FREE), SINKS, ETC.
3. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
4. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
5. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
6. CONTRACTOR SHALL PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.
7. HOT AND COLD WATER PIPING RUN-OUTS TO LAVS AND SINKS SHALL BE 3/4" UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR FIXTURE CONNECTION SIZES.
8. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
9. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".
10. PROVIDE VALVES ON ALL BRANCH PIPING SERVING GROUP TOILET ROOMS. PROVIDE FULL OPEN VALVES AND SHUT OFF VALVES PER PLUMBING CODE.

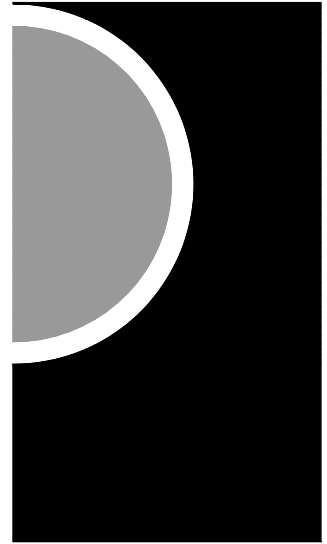
KEYED NOTES

- 1 ALTERNATE: PROVIDE BRADLEY MG-3 EXPRESS LAVATORY SYSTEM IN LIEU OF THREE INDIVIDUAL LAVATORY SINKS.
- 2 ROUTE 2" COLD WATER PIPE IN CHASE UNDIMINISHED TO FURTHEST FIXTURE. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE PIPE CONNECTION SIZE.
- 3 ROUTE 2" COLD WATER PIPE IN WALL UNDIMINISHED TO FURTHEST FIXTURE. REFER TO PLUMBING FIXTURE SCHEDULE FOR FIXTURE PIPE CONNECTION SIZE.
- 4 CONNECT TO EXISTING 6" SANITARY VENT ABOVE.



PARTIAL FIRST FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"

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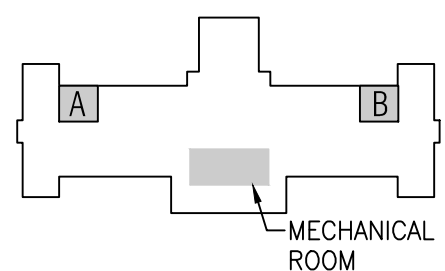
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Strategic Energy Solutions
4000 W. Eleven Mile Road Berkley, MI 48072
Phone 248.398.1900 Fax 248.399.1901
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KEY PLAN



OWNER

Hamtramck
Public Schools

PROJECT NAME

Kosciusko
Middle School
Toilet Room Upgrades

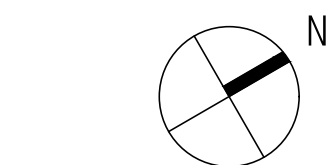
2333 Burger
Hamtramck, MI 48212

PROJECT NO.

16-118

ISSUES / REVISIONS

Bidding - Construction 04/22/2016
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SHEET NAME

FIRST FLOOR
PLUMBING PLAN

SHEET NO.

P101

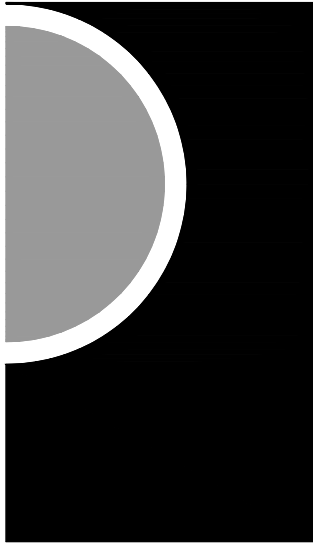
ELECTRICAL GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED.
2. SEE LUMINAIRE SCHEDULE ON ELECTRICAL GENERAL INFORMATION SHEET.
3. EXIT LIGHTS AND EMERGENCY BATTERY UNITS SHALL BE UNCONTROLLED AND TIED AHEAD OF LOCAL AREA LIGHTING SWITCH, UNLESS CIRCUITED OTHERWISE.
4. WHERE MORE THEN ONE LIGHT SWITCH IS INDICATED TO BE INSTALLED AT THE SAME LOCATION, THEY SHALL BE GROUPED UNDER ONE COMMON FACEPLATE.
5. ALL ELECTRICAL DEVICES SHOWN ON THIS PLAN SHALL BE NEW UNLESS OTHERWISE NOTED.
6. ANY 120 VOLT BRANCH CIRCUIT FEEDER LONGER THAN 75'-0" TO LAST DEVICE SHALL BE SIZED TO THE NEXT LARGER STANDARD AWG SIZE. E.C. SHALL FIELD VERIFY ALL LENGTHS OF FEEDERS.
7. ALL RECEPTACLES SHALL BE 20A. RATED.
8. ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE.
9. ALL RECEPTACLES WITHIN 6'-0" OF SINK OR OTHER WATER SUPPLY SHALL BE GFCI TYPE RECEPTACLE.
10. REFER TO ARCHITECTURAL FLOOR PLAN AND ELEVATIONS FOR EXACT LOCATION OF DEVICES.
11. ALL JUNCTION BOXES SERVING BRANCH CIRCUIT WIRING SHALL BE LABELED WITH CIRCUITS SERVED.
12. ALL 120 VOLT CIRCUITS SHALL UTILIZE A SEPARATE NEUTRAL.
13. ALL CONDUITS SERVING 120 VOLTS OR GREATER SHALL INCLUDE A GROUND WIRE.
14. ALL CONDUITS SHALL BE ROUTED CONCEALED UNLESS NOTED OTHERWISE.
15. ALL ELECTRICAL EQUIPMENT MOUNTED ON THE FLOOR SHALL BE MOUNTED ON A 4" CONCRETE HOUSE KEEPING PAD.
16. ALL BRANCH CIRCUIT WIRING SHALL BE 2#12, 1#12GND IN 3/4" CONDUIT, UNLESS NOTED OTHERWISE.

KEYED NOTES

- 1 NEW CEILING MOUNTED FIRE ALARM STROBE, 15cd, CONNECT TO NEW FIRE ALARM CONTROL PANEL IN OFFICE AREA, REFER TO RISER DIAGRAM.
- 2 RELOCATED SCHOOL BELL TO BE WALL MOUNTED, EXTEND CONDUIT AND WIRING TO THIS NEW LOCATION, REFER TO DEMOLITION PLANS.
- 3 NEW SCHOOL BELL TO MATCH EXISTING, CONNECT TO EXISTING SCHOOL BELL SYSTEM, PROVIDE NEW CONDUIT AND WIRING TO THIS NEW LOCATION.
- 4 EXISTING PANEL TO BE REUSED FOR NEW CIRCUITS, REFER TO PANEL SCHEDULE SHEET E600.
- 5 NEW EXHAUST FAN EF-1 AND CONNECT TO CIRCUIT NUMBER AS SHOWN. RUN 2#12+1#12GND-3/4". PROVIDE NEW HOA SWITCH, CONNECT TO TIMECLOCK.
- 6 NEW EXHAUST FAN P-1 AND CONNECT TO CIRCUIT NUMBER AS SHOWN. RUN 2#12+1#12GND-3/4". DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR AND STARTER BY MECHANICAL CONTRACTOR.
- 7 ALTERNATE 1: PROVIDE DEDICATED 20A-1P BREAKER TO SERVE BRADLEY MG-3 LAVATORY SYSTEM.

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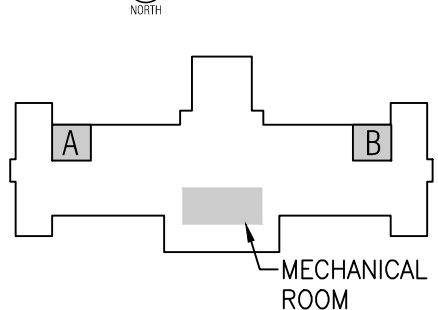
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KEY PLAN



OWNER

Hamtramck
Public Schools

PROJECT NAME

Kosciusko
Middle School
Toilet Room Upgrades

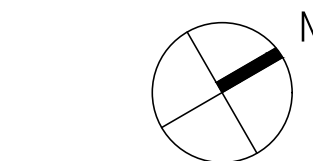
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16-118

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PARTIAL FIRST
FLOOR
ELECTRICAL
PLAN

SHEET NO.

E101

PARTIAL FIRST FLOOR ELECTRICAL PLAN - AREA B

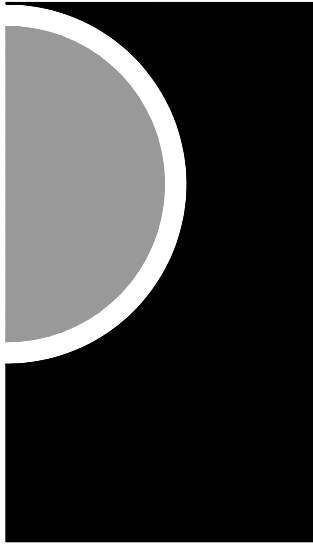
SCALE: 1/4" = 1'-0"

PARTIAL FIRST FLOOR ELECTRICAL PLAN - AREA A

SCALE: 1/4" = 1'-0"

PARTIAL FIRST FLOOR ELECTRICAL PLAN

SCALE: 1/8" = 1'-0"



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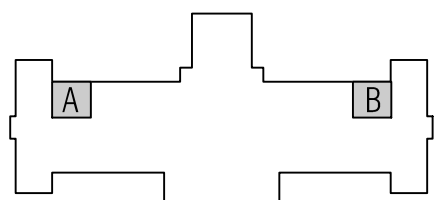
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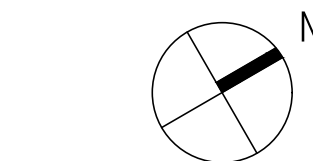
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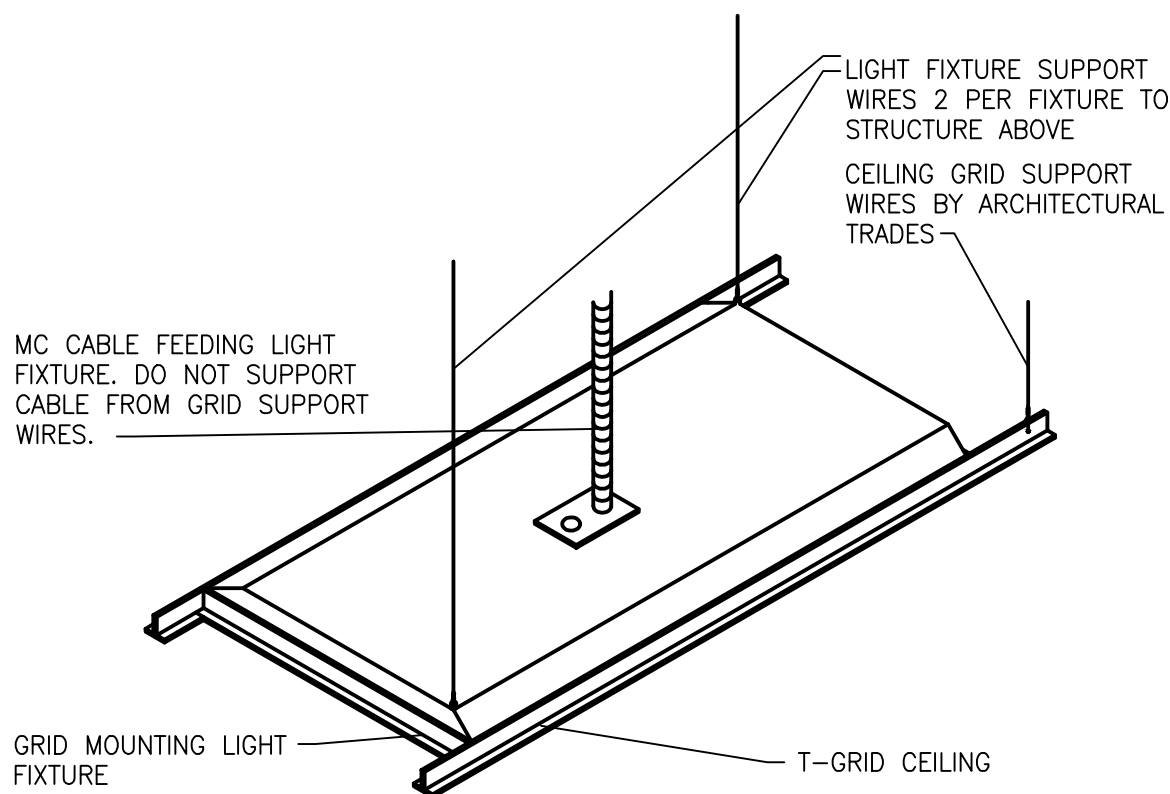
SHEET NAME

ELECTRICAL
DETAILS AND
SCHEDULES

SHEET NO.

E600

PANEL NAME: (E) RP-K4				MAIN: MLO				L-L VOLTAGE: 240								
LOCATION: CORRIDOR				BUSSING: 100				L-N VOLTAGE: 120								
SOURCE: (E) PARK OHIO DISTRIBUTION PANEL				GROUND BUS: STANDARD				PHASE: 1								
FEEDER SIZE: EXISTING				MOUNTING: SURFACE				WIRE: 3								
				NEUTRAL: 100%				MIN SC INTERRUPT RATING: 10kA								
LOAD DESCRIPTION	LIGHTING LOAD	RECEPTACLE LOAD	CONTINUOUS LOAD	NON- CONTINUOUS LOAD	OCPD	CKT	L1	L2	CKT	OCPD	NON- CONTINUOUS LOAD	CONTINUOUS LOAD	RECEPTACLE LOAD	LIGHTING LOAD	LOAD DESCRIPTION	
EXISTING CIRCUIT		360			20	1			2	20			360		EXISTING CIRCUIT	
EXISTING CIRCUIT		360			20	3			4	20			360		EXISTING CIRCUIT	
EXISTING CIRCUIT		360			20	5			6	20			360		EXISTING CIRCUIT	
EXISTING CIRCUIT		360			20	7			8	20			360		EXISTING CIRCUIT	
RESTROOMS LIGHTING	700				20	9			10	20			720		BOYS AND GIRLS RECEPTACLES	
GIRLS HAND DRYER				1500	20	11			12	20	1500				BOYS HAND DRYER	
GIRLS HAND DRYER				1500	20	13			14	20	1500				BOYS HAND DRYER	
EWC		1200			20	15			16	20	1500				STAFF HAND DRYER	
EF-1, RESTROOMS				1176	15	17			18	20	1600				LAVATORY SENSOR FAUCETS (ALTERNATE 1)	
P-1, MECHANICAL ROOM				200	15	19			20						SPACE	
SPACE						21			22						SPACE	
SPACE						23			24						SPACE	
SPACE						25			26						SPACE	
SPACE						27			28						SPACE	
SPACE						29			30						SPACE	
		CONNECTED LOAD			DEMAND FACTOR			DEMAND LOAD						RECEPTACLE DEMAND FACTOR PER ARTICLE 220.44 OF THE NEC		
LOAD TYPE	L1	L2	TOTAL	DEMAND FACTOR			L1	L2	TOTAL							
LIGHTING LOAD (VA)	700	0	700	1.00			700	0	700							
RECEPTACLE LOAD (VA)	2160	2640	4800	1.00 (FIRST 10KVA)			2160	2640	4800							
	Amount over 10kVA			0.50 (> 10KVA)			0			0						
	0			1.00			0			0						
CONTINUOUS LOAD (VA)	0	0	0	1.00			0	0	0							
NON-CONTINUOUS (VA)	5776	4700	10476	0.80			4621	3760	8381							
TOTAL LOAD (KVA)	8.64	7.34	15.98	125% OF LIGHT/CONT AND RECEPT (<10KVA) LOAD PLUS OTHER LOAD			7.48	6.40	13.88							
TOTAL AMPACITY (A)	72.0	61.2	66.6	<----			62.3	53.3	57.8							
MINIMUM FEEDER SIZE (A)	77.9	66.7	72.3	<----			68.3	58.8	63.6							

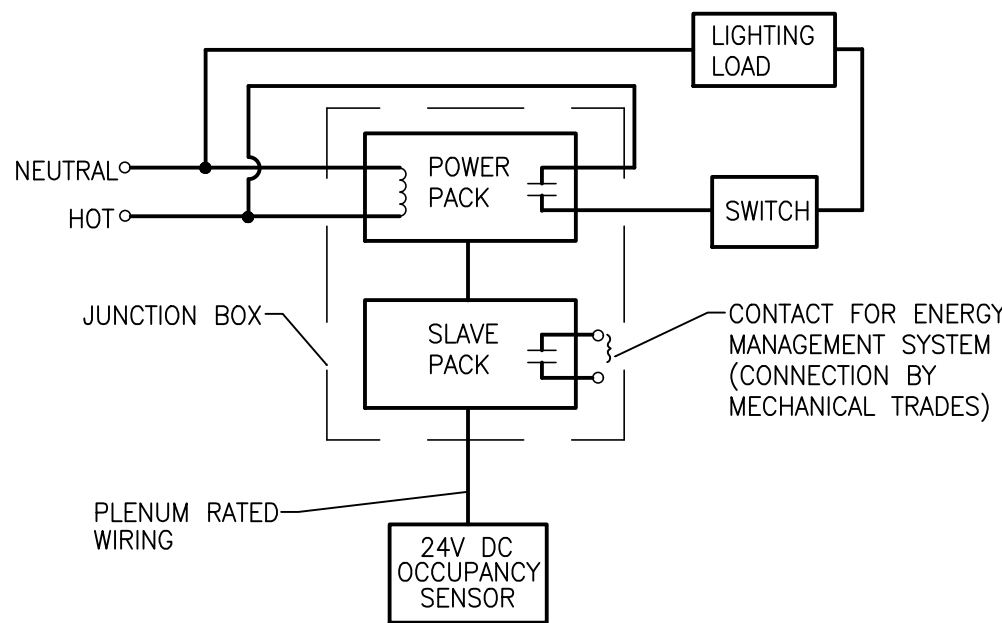


T-GRID FIXTURE MOUNTING DETAIL

NO SCALE

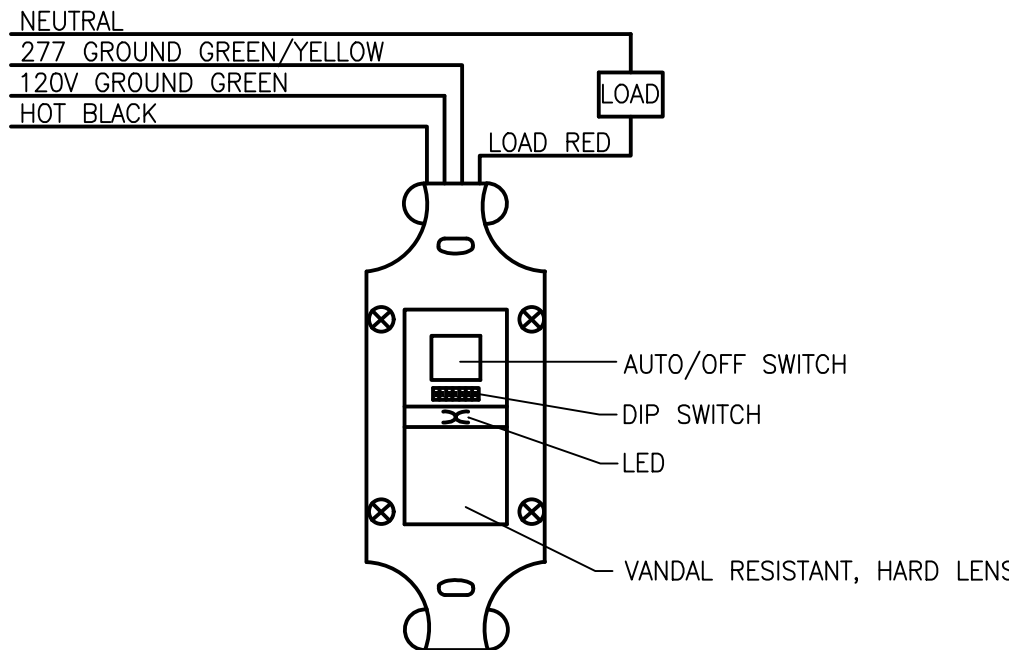
ELECTRICAL FIXTURES

- LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE ONE 12 GAUGE HANGER WIRE CONNECTED FROM THE FIXTURE TO THE STRUCTURE ABOVE. THIS WIRE MAY BE SLACK.
- LIGHT FIXTURE WEIGHING MORE THAN 10 POUNDS AND LESS THAN 56 LBS. SHALL HAVE 12 GAUGE WIRES ATTACHED AT OPPOSING CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.
- LIGHT FIXTURES WEIGHING MORE THAN 56 POUNDS SHALL BE SUPPORTED BY DIRECTLY FROM THE STRUCTURE ABOVE. THESE WIRES MUST BE TAUT.
- PENDANT MOUNTED FIXTURES SHALL BE DIRECTLY SUPPORTED FROM THE STRUCTURE ABOVE USING A 9 GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.
- TANDEM FIXTURES MAY UTILIZE COMMON WIRES.



TYPICAL CEILING MOUNTED OCCUPANCY SENSOR WIRING DIAGRAM

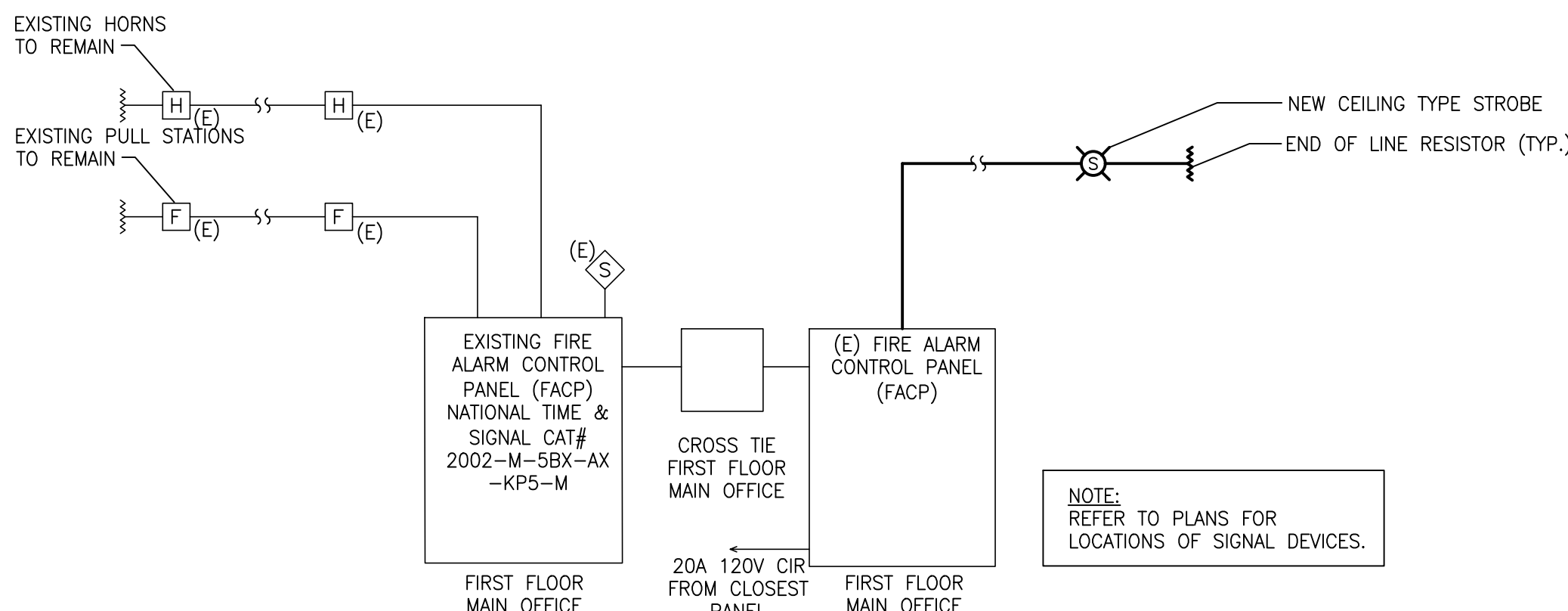
NO SCALE



OCCUPANCY SENSOR SCHEMATIC

NO SCALE

PANEL NAME: (E) RP-K1				MAIN: 150				L-L VOLTAGE: 240							
LOCATION: CORRIDOR NEAR KITCHEN				BUSSING: 200				L-N VOLTAGE: 120							
SOURCE: (E) PARK OHIO DISTRIBUTION PANEL				GROUND BUS: STANDARD				PHASE: 1							
FEEDER SIZE: EXISTING				MOUNTING: SURFACE				WIRE: 3							
				NEUTRAL: 100%				MIN SC INTERRUPT RATING: 10kA							
LOAD DESCRIPTION	LIGHTING LOAD	RECEPTACLE LOAD	CONTINUOUS LOAD	NON- CONTINUOUS LOAD	OCPD	CKT	L1	L2	CKT	OCPD	NON- CONTINUOUS LOAD	CONTINUOUS LOAD	RECEPTACLE LOAD	LIGHTING LOAD	LOAD DESCRIPTION
EXISTING LOAD		800			20	1			2	20			800		EXISTING LOAD
EXISTING LOAD		800			20	3			4	20			800		EXISTING LOAD
EXISTING LOAD		800			20	5			6	20			800		EXISTING LOAD
EXISTING LOAD		800			20	7			8	20			800		EXISTING LOAD
EXISTING LOAD		800			20	9			10	20			800		EXISTING LOAD
EXISTING LOAD		800			20	11			12	20			800		EXISTING LOAD
EXISTING LOAD				1000	20	13			14	15	1000				EXISTING LOAD
EXISTING LOAD				1000	20	15			16		1000				EXISTING LOAD
EXISTING LOAD				1800	30	17			18	20	696				EF-4 (WATER METER ROOM)
EXISTING LOAD				1800	30	19			20	20	1500				BOYS HAND DRYER
NEW LIGHTING - CLASSROOM	495				20	21			22	20	1500				BOYS HAND DRYER
NEW LIGHTING - KITCHEN	1092				20	23			24	20			720		BOYS AND GIRLS RECEPTACLES
NEW LIGHTING - CAFETERIA	1212				20	25			26	20	1500				GIRLS HAND DRYER
RESTROOMS LIGHTING	700				20	27			28	20	1500				GIRLS HAND DRYER
EF-1 RESTROOM				1176	15	29			30	20	1500				STAFF HAND DRYER
EWC		1200			20	31			32	20	1600				LAVATORY SENSOR FAUCETS (ALTERNATE 1)
SPACE						33			34						SPACE
SPACE						35			36						SPACE
SPACE						37			38						SPACE
SPACE						39			40						SPACE
		CONNECTED LOAD			DEMAND FACTOR			DEMAND LOAD							
LOAD TYPE	L1	L2	TOTAL				L1	L2	TOTAL						
LIGHTING LOAD (VA)	1707	1792	3499	1.00			1707	1792	3499						
RECEPTACLE LOAD (VA)	4800	6720	11520	1.00 (FIRST 10KVA)			4167	5833	10000						
	Amount over 10kVA			0.50 (> 10KVA)			317	443	760						
CONTINUOUS LOAD (VA)	0	0	0	1.00			0	0	0						
NON-CONTINUOUS (VA)	10172	8400	18572	0.80			8138	6720	14858						
TOTAL LOAD (KVA)	16.68	16.91	35.11	125% OF LIGHT/CONT AND RECEPT (<10KVA) LOAD PLUS OTHER LOAD			14.33	14.79	29.12						
TOTAL AMPACITY (A)	139.0	140.9	146.3	<---- PER NEC ARTICLE 215.2 ---->			119.4	123.2	121.3						
MINIMUM FEEDER SIZE (A)	151.2	156.8	160.4				131.6	139.1	135.4						



NOTES:

- FOR FIRE ALARM EQUIPMENT SPECIFICATION AND ADDITIONAL REQUIREMENTS, SEE SPECIFICATIONS.
- ALL DUCT DETECTORS SHALL BE WIRED TO ACTIVATE ALARM SYSTEM AND SHUT DOWN FAN. PROVIDE INDICATOR LIGHT WHERE SMOKE DETECTORS ARE INSTALLED IN CONCEALED LOCATIONS OR ARE MORE THAN 10FT. ABOVE THE FINISHED FLOOR.
- CANDELA RATING ARE SHOWN IN ALL ROOMS. ALL AUDIO AND VISUAL RATINGS SHALL MEET OR EXCEED NFPA REQUIREMENTS.
- PROVIDE REMOTE POWER SUPPLIES AS REQUIRED FOR NOTIFICATION APPLIANCE CIRCUITS, NOT TO EXCEED 80% OF CAPACITY.
- PROVIDE SMOKE DETECTOR ABOVE EACH REMOTE POWER SUPPLY PANEL.
- PROVIDE BATTERY, CURRENT LOAD AND VOLTAGE DROP CALCULATIONS PER SPECIFICATIONS.
- SEAL AROUND ALL PIPES & CONDUITS IN MASONRY AND DRYWALL WALLS.
- ALL FIRE ALARM WIRING SHALL BE MINIMUM #14 AWG AND IN CONDUIT MIN 3/4" IN EXPOSED CEILING AREAS, CABLE IS ACCEPTABLE ABOVE LAY-IN CEILINGS IN J-HOOKS.
- FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHARGES INVOLVED IN OBTAINING APPROVAL AND CERTIFICATION FROM STATE ELECTRICAL INSPECTOR FOR A COMPLETE SYSTEM. CERTIFIED CONTRACTOR TO PAY ALL FEES REQUIRED.
- THE ELEVATION DIAGRAM IS FOR REFERENCE PURPOSES. EXACT QUANTITIES OF DEVICES AND LOCATIONS SHALL COMPLY WITH NFPA GUIDELINES AND MEET APPROVAL OF THE STATE ELECTRICAL INSPECTOR. FIRE ALARM CONTRACTOR SHALL HAVE SHOP DRAWINGS APPROVED BY THE STATE ELECTRICAL INSPECTOR PRIOR TO COMMENCEMENT OF WORK.
- FOR FIRE ALARM SYMBOL LEGEND SEE DRAWING E000.
- PROVIDE COVER WITH SIREN FEATURE TO ALL NEW FIRE ALARM MANUAL PULL STATION.

FIRE ALARM RISER

NO SCALE