

GROSSE POINTE PUBLIC SCHOOL SYSTEM

Mason Elementary School

Restroom Remodeling - Phase Two

Mason Elementary School
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Grosse Pointe Woods, MI 48236
313.432.4405

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MECHANICAL AND ELECTRICAL ENGINEER:



LOCATION PLAN

NOT TO SCALE



APPLICABLE CODES:

MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS	2009 EDITION
LIFE SAFETY CODE 101	1999 EDITION
MICHIGAN SCHOOL FIRE SAFETY RULES	2009 EDITION
MICHIGAN UNIFORM ENERGY CODE	2011 EDITION
NATIONAL ELECTRIC CODE (WITH MICHIGAN PART 8 RULES)	2009 EDITION
MICHIGAN PLUMBING CODE	2009 EDITION
MICHIGAN MECHANICAL CODE	2009 EDITION
FEDERAL ADA STANDARDS FOR ACCESSIBLE DESIGN	CURRENT EDITION
MICHIGAN BARRIER FREE DESIGN ACT	

OCCUPANCY GROUP:

E: EDUCATIONAL

ZONING DISTRICT:

C.F.: COMMUNITY FACILITIES

CONSTRUCTION TYPE:

TYPE II (000) WITHOUT SPRINKLER COVERAGE

TOTAL FLOOR AREA:

(E) BUILDING FLOOR AREA: (GROSS FLOOR AREA) 39,781 SF

REMODELED FLOOR AREA:
FIRST FLOOR GIRLS RESTROOM: 254 SF
FIRST FLOOR BOYS RESTROOM: 254 SF
TOTAL: (GROSS FLOOR AREA) 502 SF

OCCUPANT LOAD:

CLASSROOM NET AREA BOTH FLOORS: 15000 SF

OCCUPANT LOAD = 20 NET SQ FT CLASSROOM

PER OCCUPANT = 15000/20 750

FIXTURE COUNT

NUMBER OF STUDENTS (MAXIMUM): 750 (BOTH FLOORS)		
1/2 (375) = BOYS 1/2 (375) = GIRLS		
EDUCATIONAL BUILDING REQUIREMENTS (PER CODE)		
WATER CLOSETS	1/50	375/50 8
LAVATORIES	1/50	375/50 8
FIXTURES PROVIDED		
FIRST FLOOR - BOYS		
WATER CLOSETS		3
URINALS		4
WASHFOUNTAIN (EQUALS 4 LAVS)		1
SECOND FLOOR - BOYS (EXISTING)		
WATER CLOSETS		3
URINALS		4
WASHFOUNTAIN (EQUALS 4 LAVS)		1
BOYS: TOTAL WATER CLOSETS PROVIDED 14		
TOTAL LAVATORIES PROVIDED 8		
FIXTURES PROVIDED		
FIRST FLOOR - GIRLS		
WATER CLOSETS		6
WASHFOUNTAIN (EQUALS 4 LAVS)		1
SECOND FLOOR - GIRLS - (EXISTING)		
WATER CLOSETS		6
WASHFOUNTAIN (EQUALS 4 LAVS)		1
GIRLS: TOTAL WATER CLOSETS PROVIDED 12		
TOTAL LAVATORIES PROVIDED 8		

PROJECT NO.: 9013

LIST OF DRAWINGS:

ARCHITECTURAL

TTL TITLE SHEET
A00 GENERAL INFORMATION
A01 LOCATION PLAN
A10 REMOVALS PLANS
A11 REMOVALS ELEVATIONS
A20 FLOOR & DIMENSION PLANS
A50 INTERIOR ELEVATIONS
A60 REFLECTED CEILING PLAN
A90 INTERIOR WALL SECTIONS
A95 INTERIOR DETAILS

MECHANICAL

M01 MECHANICAL STANDARDS AND DRAWING INDEX
M11 PARTIAL FIRST FLOOR MECHANICAL PLAN
M61 MECHANICAL DETAILS AND SCHEDULES
M81 TEMPERATURE CONTROLS STANDARDS AND GENERAL NOTES

ELECTRICAL

E01 ELECTRICAL STANDARDS AND DRAWING INDEX
E02 ELECTRICAL STANDARD SCHEDULES
E03 ELECTRICAL COMPOSITE PLAN
E11 PARTIAL FIRST FLOOR ELECTRICAL PLANS

Bidding: 12 January 2016

Title Sheet

Scale as Noted

Ehresman Associates, Inc.
architects • engineers

Grosse Pointe Public School System
Mason Elementary School
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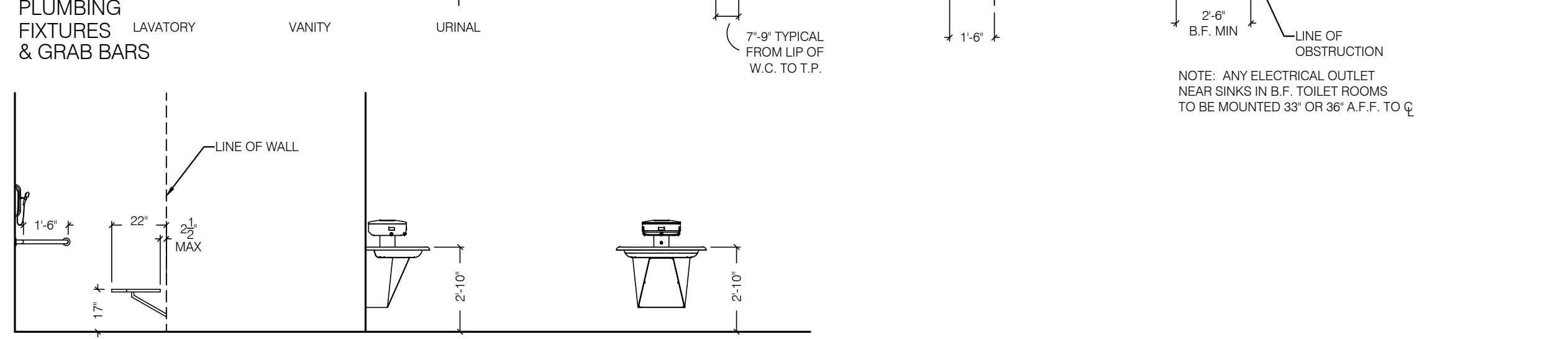
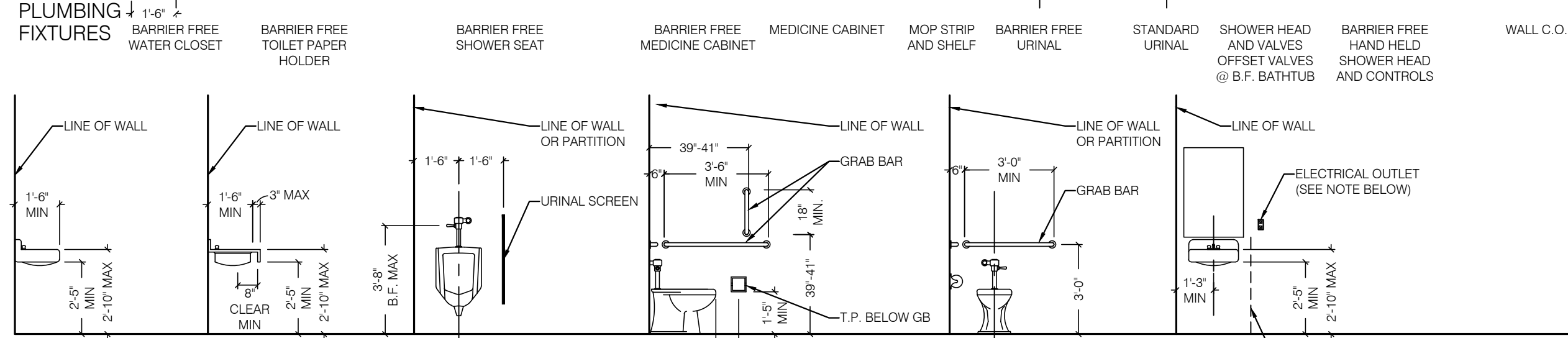
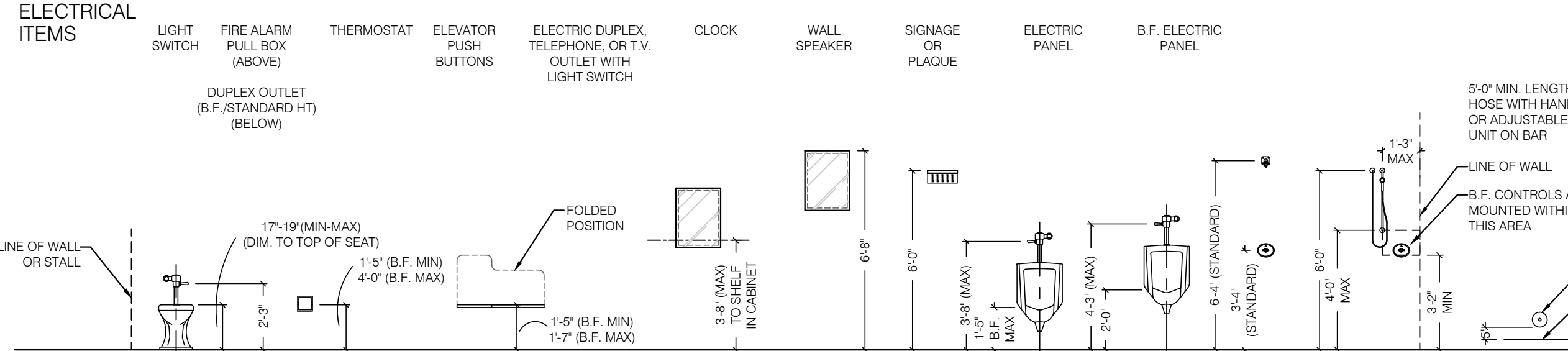
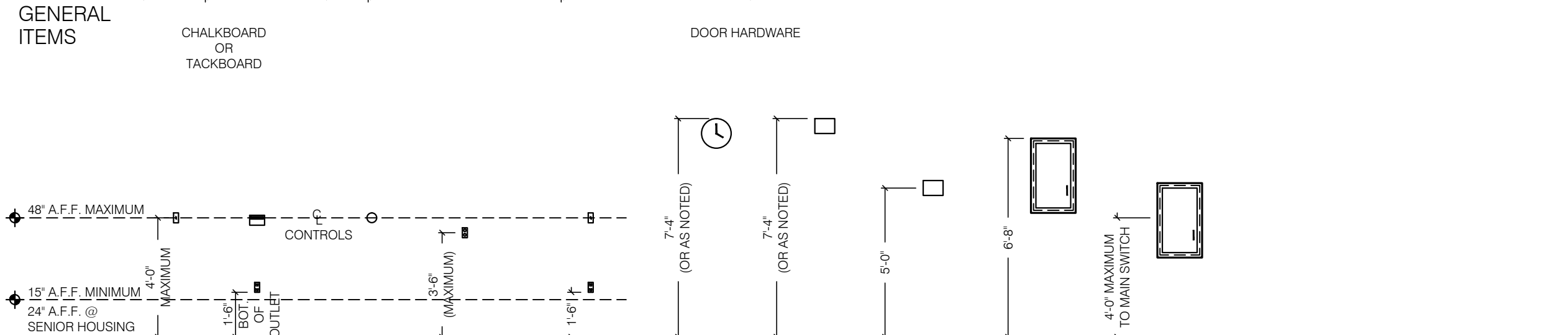
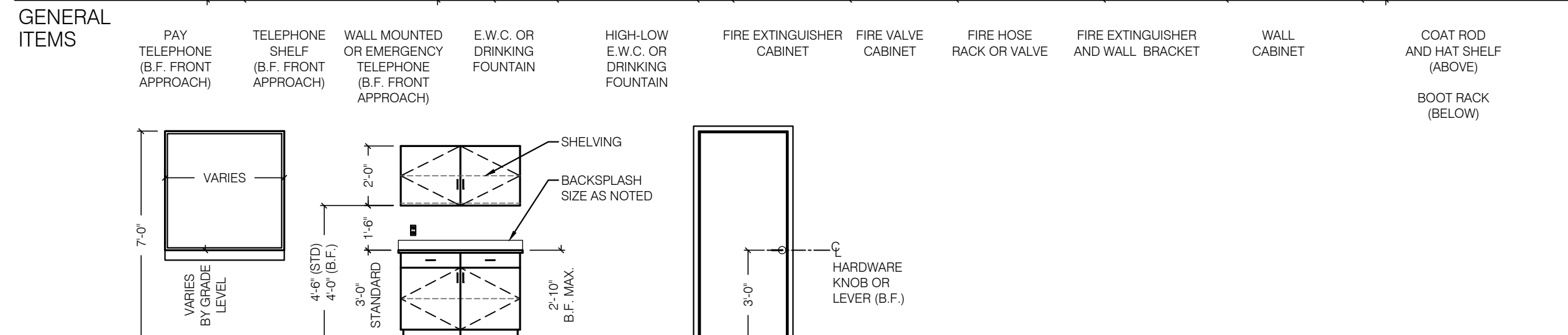
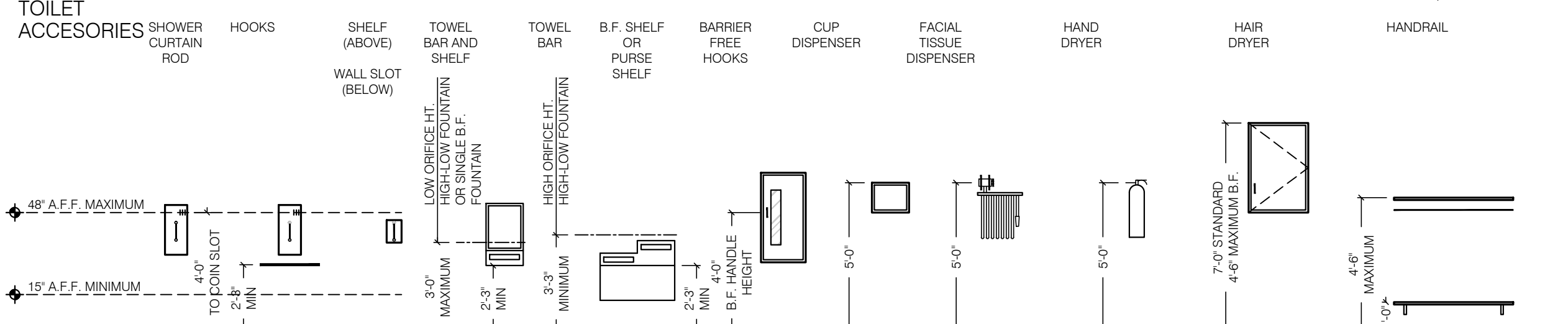
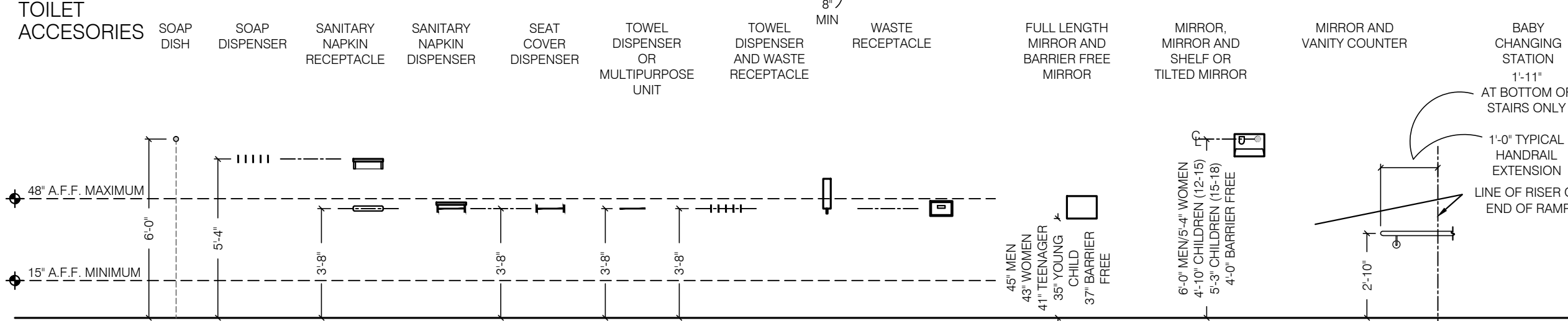
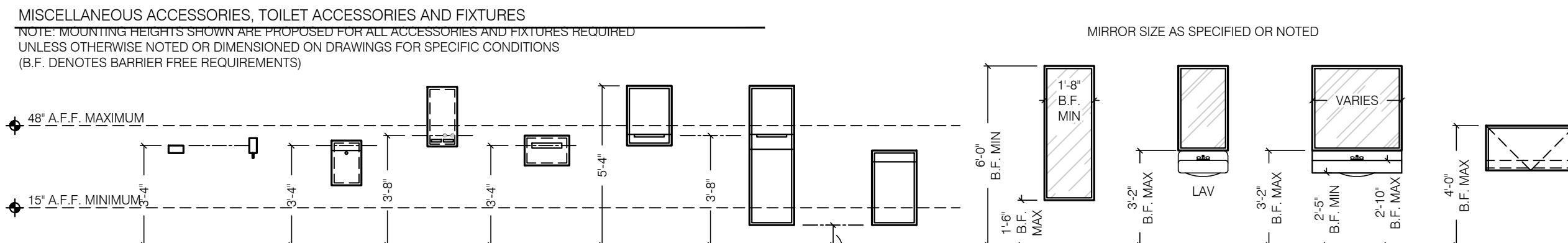
TTL

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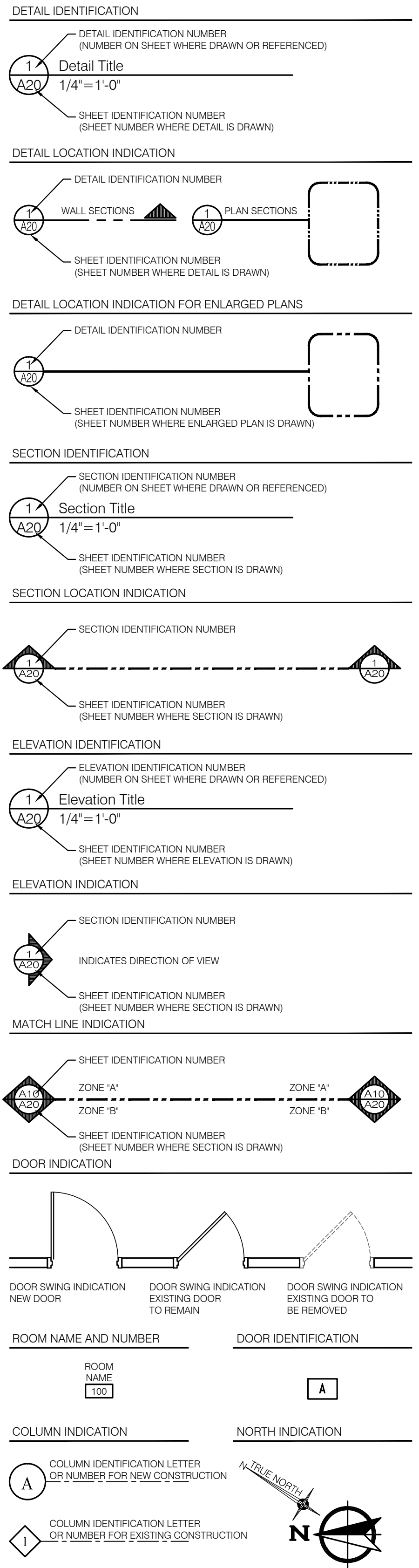
ABBREVIATIONS

A	ABV. ABOVE A.C.F. ABOVE FINISH FLOOR ACC. ACCESS ACC. PNL. ACCESS PANEL ACT. ACOUSTICAL CEILING TILE ADD. ADDENDUM ADRN. ADDITION ADJ. ADJACENT AIO. AIR CONDITIONING A.C.C. AIR CONDITONING COMPRESSOR A.C.C.U. AIR COOLED CONDENSING UNIT A.H.U. AIR HANDLING UNIT AL. ALIGN ALUM. ALUMINATE ALUM./AL. ALUMINUM ANCH. ANCHOR A &. ANCHOR BOLT & ANG.I. OR Z. ANGLE ANOD. ANODIZED APT. APARTMENT APPR. APPROVED APPROX. APPROXIMATE ARCH. ARCHITECT/ARCHITECTURAL A.T.M. AUTOMATIC TELLER MACHINE ASPH. ASPHALT ASSY. ASSEMBLY @. AT AUTO. AUTOMATIC AUX. AUXILIARY AVG. AVERAGE	E	EA. EACH E.F. EACH FACE E.W. EACH WAY E. EAST E.I.F.S. EXTERIOR INSULATION FINISH SYSTEM E.LAST. ELASTOMERIC ELEC. ELECTRICAL ELEC. CAB. ELECTRICAL CABINET E.C. ELECTRICAL CONTRACTOR E.P. ELECTRICAL PANEL E.W.C. ELECTRIC WATER PANEL ELEC. OPER. ELECTRICALLY OPERATED LGTH. LENGTH L.L. LINE LOAD LVT. LIGHTING L.P. LIGHTING PANEL LMS. LIMESTONE LTL. LINE TRIM L.F. LINEAR FOOT/FEET L.O. LIQUID L.L. LONG LEG L.L.V. LONG LEG VERTICAL LG. LONG L.L.L.V. LONG LEG VERTICAL L.V.R. LOUVER L.O. LOUVER OPENING L.P.F. LOW POINT L.P.R. LOW PRESSURE LBS. OR # POUNDS	L	LBL. LABEL LAB. LABORATORY LAD. LADDER L.B. LAG BOLT LAM. LAMINATE/LAMINATED LDG. LANDING LSE. LARGER LDRY. LAUNDRY LAV. LAVATORY SIM. SIMILAR L.G. LEG L.S. LENGTH L.V. LEVEL LT. LIGHT L.T.G. LIGHTING L.P. LIGHTING PANEL LMS. LIMESTONE LTL. LINE TRIM L.F. LINEAR FOOT/FEET L.O. LIQUID L.L. LONG LEG L.L.V. LONG LEG VERTICAL LG. LONG L.L.L.V. LONG LEG VERTICAL L.V.R. LOUVER L.O. LOUVER OPENING L.P.F. LOW POINT L.P.R. LOW PRESSURE LBS. OR # POUNDS	S	SAN. SANITARY S.N.D. SANITARY NAPKIN DISPENSER S.N.R. SANITARY NAPKIN RECEPTACLE SCHED. SCHEDULE SEATING SEATING SEC. SECTION SERV. SERVICE SHEET SHEET SHWR. SHOWER SIM. SIMILAR S.D. SOAP DISPENSER S.C. SOLID CORE STC. SOUND TRANSMISSION CLASS SOUTH SOUTH SPR. SPEAKER SPEC. SPECIFICATIONS S.F. SQUARE FEET S.S. STAINLESS STEEL STD. STANDARD STM. STEAM STL. STEEL STOR. STORAGE STREET STREET STR. STRUCTURAL SUSP. SUSPENDED/SUSPENDED SWBD. SWITCHBOARD SWGR. SWITCHGEAR SYM. SYMBOL SYS. SYSTEM
B	B/B. BACK TO BACK B.F.P. BACK FLOW PREVENTOR B.D.D. BACK DRAFT DAMPER B.F. BARRIER FREE B.R. BASE BOARD RADIATION B.P.L. BASE PLATE BSMT. BASEMENT BM. BEAM B.C. BACK OF CURB BRG. BEARING B.M. BENCH-MARK BENT. BENT BT. BETWEEN BEV. BEVEL BLT. BITUMINOUS BLK. BLACK IRON BLK. BLOCK BLKG. BLOCKING BD. BOILER BLR. BOILER BK. SH. BOOK SHELVES BOT. BOTTOM BOT. EL. BOTTOM ELEVATION BLVD. BOULEVARD BRKT. BRACKET BTU. BRITISH THERMAL UNIT BLDG. BUILDING B.L.R. BUILT UP ROOFING BUZZ. BUZZER	F	FAB. FABRICATED F.FIN. FACTORY FINISH FAS. FASTENER FT. OR'. FEET OR FOOT FPM. FEET PER MINUTE FV. FENCE F.V. FIELD VERIFY F.G. FINISH FIN. FINISH FIN.FL.V.F. FINISHED FLOOR F.A. FIRE ALARM FIRE. FIRE DAMPER F.E. FIRE EXTINGUISHER F.E.C. FIRE EXTINGUISHER CABINET FLASH. FLASHING F.C. FLEXIBLE CONNECTION F.L.P. FLOOR CLEAN OUT F.D. FLOOR DRAIN FLR.FIN. FLOOR FINISH FLUOR. FLUORESCENT FTG. FOOTING FDN. FOUNDATION FR. FRAMING FRM. FRAMING FRZR. FREEZER FURN. FURNISH FURR. FURRING FUT. FUTURE	M	MACHINE M.A.U. MAKE UP AIR UNIT M.D.P. MAIN DISTRIBUTION PANEL M.S.B. MAIN SWITCH BOARD MAINT. MAINTENANCE M.H. MANHOLE MFR. MANUFACTURER MAR. MARBLE M.C. MASONRY OPENING MAX. MAXIMUM MECH. MECHANICAL MED. MEDIUM MEMB. MEMBRANE MET. METAL M.D.S. METAL DIVIDER STRIP M.E. METAL EDGE M.L. METAL LATH M.L.&PLAS. METAL LATH & PLASTER M.T. MARBLE THRESHOLD MEZZ. MEZZANINE M.DOT. MICHIGAN DEPARTMENT OF TRANSPORTATION MIN. MINIMUM MISC. MISCELLANEOUS MTO. MOUNTED MTG. MEETING	T	T.BD. TACKBOARD TECH. TECHNICAL TEL. TELEPHONE TELE. TELEVISION TEMP. TEMPORARY TERR. TERRACE T. THROUGH T & G. TONGUE & GROOVE T & B. TOP & BOTTOM T/C. TOP OF CURB T/P. TOP OF FOOTING T/G. TOP OF GUTTER TRFR. TRANSFORMER TREAD. TREAD T.D. TIE DRAIN TYP. TYPICAL
C	CAB. CABINET CAP. CAPACITY CAR. CARPET C.I. CAST IRON C.B. CATCH BASIN CLG. CEILING CLG. HT. CEILING HEIGHT CEM. CEMENT CEM.PLAS. CEMENT PLASTER CTR. CENTER Q. CENTERLINE CER. CERAMIC CT. CERAMIC TILE C.B.D. CHALKBOARD CHAN. ORC. CHANNEL CHWR. CHILLED WATER RETURN CHWS. CHILLED WATER SUPPLY CIRCUM. CIRCUMFERENCE CIR.BRK. CIRCUIT BREAKER CL. CLASSROOM C.O. CLEAN OUT CL. CLOSET CW. COLD WATER COL. COLUMN CO. COMPANY COMP. COMPRESSED AIR CA. CONCRETE C.M.U. CONCRETE MASONRY UNIT CWR. COLD WATER RETURN CWS. COLD WATER SUPPLY COND. CONDENSATION CONF. CONFERENCE CONSTR. CONSTRUCTION CONJ. CONTROL JOINT CONT. CONTINUE/CONTINUOUS CONTR. CONTRACTOR C.P. CONTROL PANEL CONV. CONVERTOR CRS. COURSE COV. COVER COP. PL. COVER PLATE CU FT. CUBIC FEET/CUBIC FOOT CFV. CONTRACTOR FIELD VERIFY CULV. CULVERT C.VL. CYLINDER C.YC. CYCLE(S) CIRCUM. CIRCUMFERENCE	G	GA. GAUGE GALV. GALVANIZED GAS. GAS GSKT. GASKET G.V. &B. GATE VALVE AND BOX G.R. GUARD RAIL GEN. GENERAL GL. GLASS/GLAZING G.H.T. GLAZED HARD TILE G.B. GRAB BAR GRN. GREASE TRAP G.R.T. GREASE TRAP INTERRUPTOR GND. GROUND G.F.I. GROUND FAULT INTERRUPTOR GROUT. GROUT GYP. GYPSUM GYP.BD. GYPSUM BOARD	N	NRC. NOISE REDUCTION COEFFICIENT NOM. NOMINAL N. NORTH N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE NO. NUMBER	U	U.C. UNDERCUT U.G. UNDER GROUND U.L. UNDERWRITERS LABORATORY UNFIN. UNFINISHED U.H. UNIT HEATER U.V. UNIT VENTILATOR U.N.O. UNLESS NOTED OTHERWISE UR. URINAL
D	DMPR. DAMPER DMPG. DAMPPROOFING D.L. DEAD LOAD DB. DECIBEL D. DEEP DMT.PARTN. DEMOUNTABLE PARTITION DEPT. DEPARTMENT DEPR. DEPRECATED DES. DESIGN DET. DETAIL D.E.C. DETROIT EDISON COMPANY DIAG. DIAGONAL DIA. OR Ø. DIAMETER DIFF. DIFFUSER DIM. DIMENSION DIR. DIRECTION DISC. DISCONNECT DIS. DISHWASHER DISP. DISPENSER DIST. DISTANCE D.P. DISTRIBUTION PANEL DIV. DIVIDER/DIVISION DR. DOOR D.O. DOOR OPENING DR. OP. DOOR OPERATOR DSL. DOUBLE D.H. DOUBLE HUNG DWL. DOWEL DOWN. DOWN D.S. DOWNSPOUT DRN. DRAIN D.T. DRAIN TILE D.T.C. DRAIN TILE CONNECTOR DRAW. DRAWER DWG. DRAWING D.F. DRINKING FOUNTAIN DUP. DUPLICATE	H	H.C. HANDICAPPED H.R. HAND RAIL HDW. HARDWARE H.W. HARDWOOD HD. HEAD HDR. HEADER HTR. HEATER HV. HEATING AND VENTILATING H.V.A.C. HEATING, VENTILATING & AIR CONDITIONING HWH. HEATING HOT WATER RETURN HWS. HEATING HOT WATER SUPPLY HT. HEIGHT HEX. HEXAGON H. HIGH H.I.D. HIGH INTENSITY DISCHARGE H.P. HIGH POINT H.P.R. HIGH PRESSURE H.S. HIGH STRENGTH H.V. HIGH VOLTAGE H.W. HIGH WIND H.C. HOLLOW CORE H.M. HOLLOW METAL HK. HOOK HORZ. HORIZONTAL HP. HORSEPOWER HB. HOSE BIB H.W. HOT WATER H.W.H. HOT WATER HEATER HWR. HOT WATER RETURN HWS. HOT WATER SUPPLY HR. HOUR HYD. HYDRANT	N	N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE NO. NUMBER	U	U.C. UNDERCUT U.G. UNDER GROUND U.L. UNDERWRITERS LABORATORY UNFIN. UNFINISHED U.H. UNIT HEATER U.V. UNIT VENTILATOR U.N.O. UNLESS NOTED OTHERWISE UR. URINAL
O	Obs. Obscure O.C. ON OR CENTER O.P.Q. OPAQUE OPG. OPENING OPER. OPERATOR OPR. OPERATING ORN. ORNAMENTAL OZ. OUNCE O.A. OUTSIDE AIR O.D. OUTSIDE DIAMETER O.A. OVERALL O.H.D. OVERHEAD O.F. OVERFLOW	P	PTD. PAINTED PR. PATCH AND REPAIR P.NL. PANEL P.T.D. PAPER TOWEL DISPENSER PKG. PARKING P.B.D. PARKING BOARD PASS. PASSAGE WT. WEIGHT W.W.F. WELODED WIRE FABRIC W. WEST W. WIDEWIDTH W.B. WALL BASE W.O. WINDOW OPENING W. WIRE MESH W/W. WITH W/O. WITHOUT WD. WOOD W.P. WORKING POINT	W	WAINS. WAINSCOT W.C.O. WALL CLEAN OUT W.H. WALL HYDRANT W.V. WALL VENT W.F. WASH FOUNTAIN W. WASTE W.C. WATER CLOSET W.H. WATER HEATER WP. WATERPROOF PASS. PASSAGE WT. WEIGHT W.W.F. WELODED WIRE FABRIC W. WEST W. WIDEWIDTH W.B. WALL BASE W.O. WINDOW OPENING W. WIRE MESH W/W. WITH W/O. WITHOUT WD. WOOD W.P. WORKING POINT	X	X.P. XEROPHYTE
E	EA. EACH E.F. EACH FACE E.W. EACH WAY E. EAST E.I.F.S. EXTERIOR INSULATION FINISH SYSTEM E.LAST. ELASTOMERIC ELEC. ELECTRICAL ELEC. CAB. ELECTRICAL CABINET E.C. ELECTRICAL CONTRACTOR E.P. ELECTRICAL PANEL E.W.C. ELECTRIC WATER PANEL ELEC. OPER. ELECTRICALLY OPERATED LGTH. LENGTH L.L. LINE LOAD LVT. LIGHTING L.P. LIGHTING PANEL LMS. LIMESTONE LTL. LINE TRIM L.F. LINEAR FOOT/FEET L.O. LIQUID L.L. LONG LEG L.L.V. LONG LEG VERTICAL LG. LONG L.L.L.V. LONG LEG VERTICAL L.V.R. LOUVER L.O. LOUVER OPENING L.P.F. LOW POINT L.P.R. LOW PRESSURE LBS. OR # POUNDS	G	GA. GAUGE GALV. GALVANIZED GAS. GAS GSKT. GASKET G.V. &B. GATE VALVE AND BOX G.R. GUARD RAIL GEN. GENERAL GL. GLASS/GLAZING G.H.T. GLAZED HARD TILE G.B. GRAB BAR GRN. GREASE TRAP G.R.T. GREASE TRAP INTERRUPTOR GND. GROUND G.F.I. GROUND FAULT INTERRUPTOR GROUT. GROUT GYP. GYPSUM GYP.BD. GYPSUM BOARD	N	NRC. NOISE REDUCTION COEFFICIENT NOM. NOMINAL N. NORTH N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE NO. NUMBER	U	U.C. UNDERCUT U.G. UNDER GROUND U.L. UNDERWRITERS LABORATORY UNFIN. UNFINISHED U.H. UNIT HEATER U.V. UNIT VENTILATOR U.N.O. UNLESS NOTED OTHERWISE UR. URINAL
Q	QTY. QUANTITY Q.T. QUARRY TILE QTR. QUARTER QTR. RD. QUARTER ROUND	I	I.D. INSIDE DIMENSION INCAND. INCANDESCENT IN. OR'. INCHES INCH. INCHES INCL. INCLUDE/INCLUDING INDIR. INDIRECT WASTE INFO. INFORMATION INSTL. INSTALL/INSTALLATION INSUL. INSULATION/INSULATION INT. INTERIOR INTER. INTERMEDIATE INVT. INVERT I.E. INVERT ELEVATION	R	R. RISER RAD. OR R. RADIUS R.C. RIGID CONDUCTOR R.R. RAILROAD REF. REFERENCE/REFERENCE REFL. REFLECT/REFLECTED REFR. REFRIGERATOR REIN. REINFORCE/REINFORCEMENT REIN. REINFORCING REIN. REINFORCEMENT RECD. REQUIRED RETR. RETURN AIR REV. REVISED/REVISION RPM. REVOLUTIONS PER MINUTE RHT. RIGHT HAND R.O.W. RIGHT OF WAY RD. ROAD RF. ROOF R.F. ROOF DRAIN R.S. ROOF SUMP R.T.U. ROOF TOP UNIT RM. ROOM R.O. ROUGH OPENING R.B. RUBBER BASE	Y	Y.D. YARD Y.P. YIELD POINT Y.S. YIELD STRENGTH YEAR
J	J.C. JANITOR CLOSET JT. JOINT JST. JOIST J.B. JUNCTION BOX	K	K.P. KICKPLATE K.V. KILOVOLT KVA. KILOWATT AMPHRE KW. KILOWATT K.P. (100W). KIP (100W) KIT. KITCHEN K.D. KNOCK DOWN K.O.P. KNOCK OUT PANEL	Z	ZC. ZINC	Y	Y.D. YARD Y.P. YIELD POINT Y.S. YIELD STRENGTH YEAR

TYPICAL MOUNTING HEIGHTS



REFERENCE SYMBOLS



Bidding: 12 January 2016
Scale as Noted

General Information

Ehresman Associates, Inc.
architects • engineers

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Project No. 9013

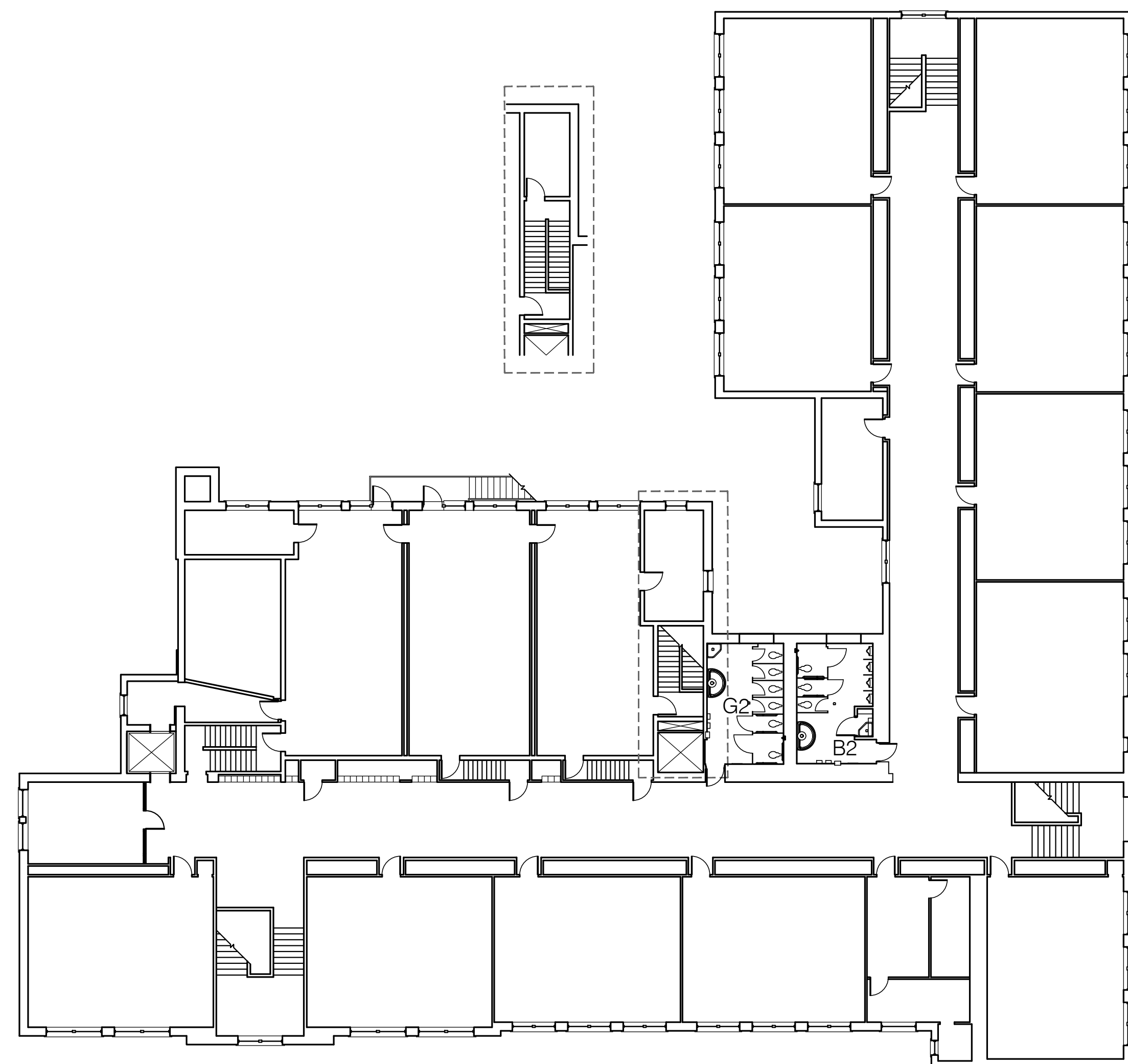
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EXISTING FIXTURE COUNT

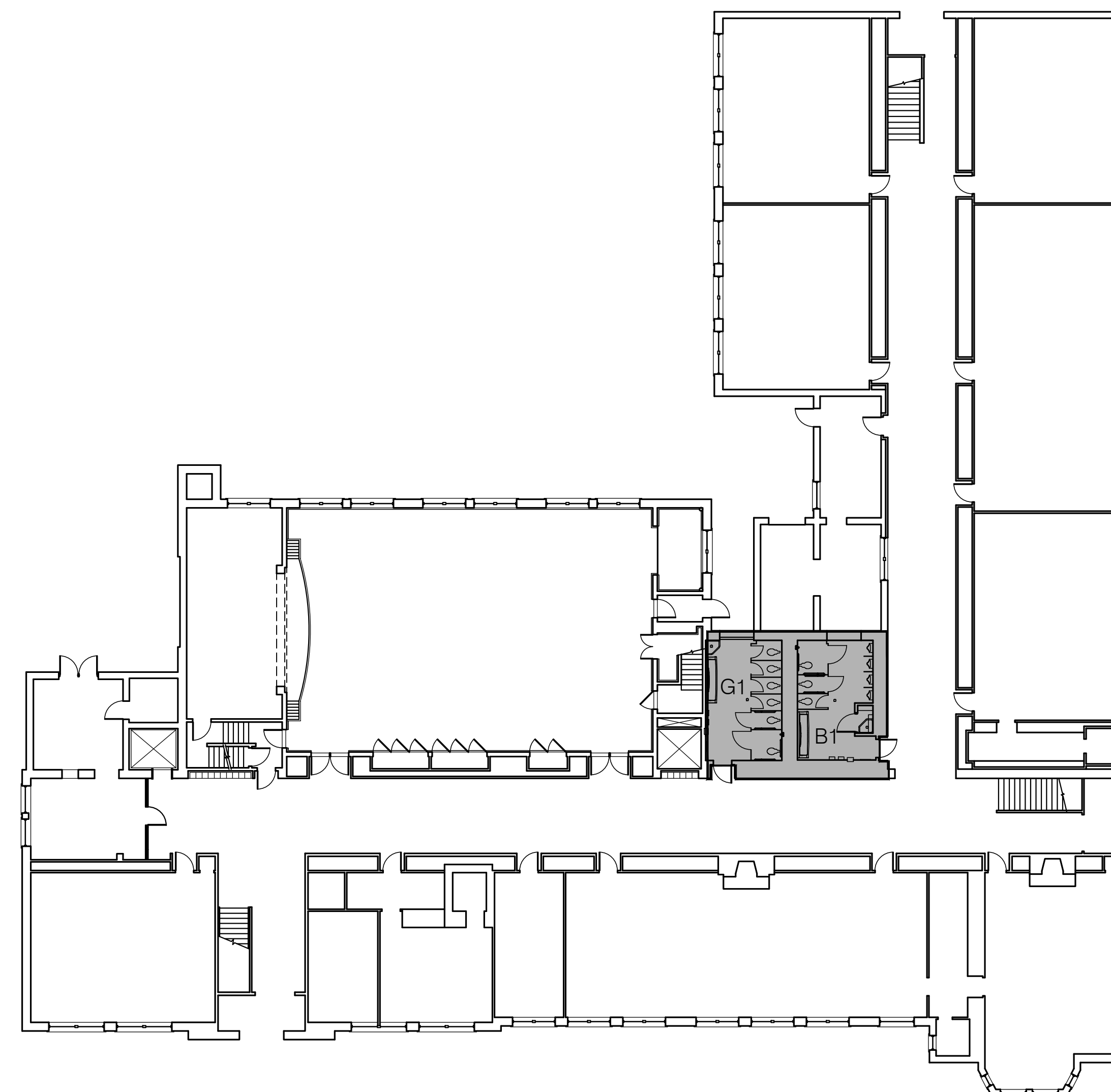
BY BUILDING (FIRST AND SECOND FLOOR)					
DES.	LOCATION	WATER CLOSETS	URINALS	LAVATORIES	WASH FOUNTAINS
FIRST FLOOR					
B1	BOYS	3	7	3	0
G1	GIRLS	7		3	0
SECOND FLOOR					
B2	BOYS	3	4	0	1
G2	GIRLS	6		0	1

LEGEND:

■ SHADED AREA REPRESENTS THE RESTROOMS TO BE REMODELED



N
2
A01 Second Floor Plan
1/16" = 1'-0"



N
1
A01 First Floor Plan
1/16" = 1'-0"

Bidding: 12 January 2016

Location Plan

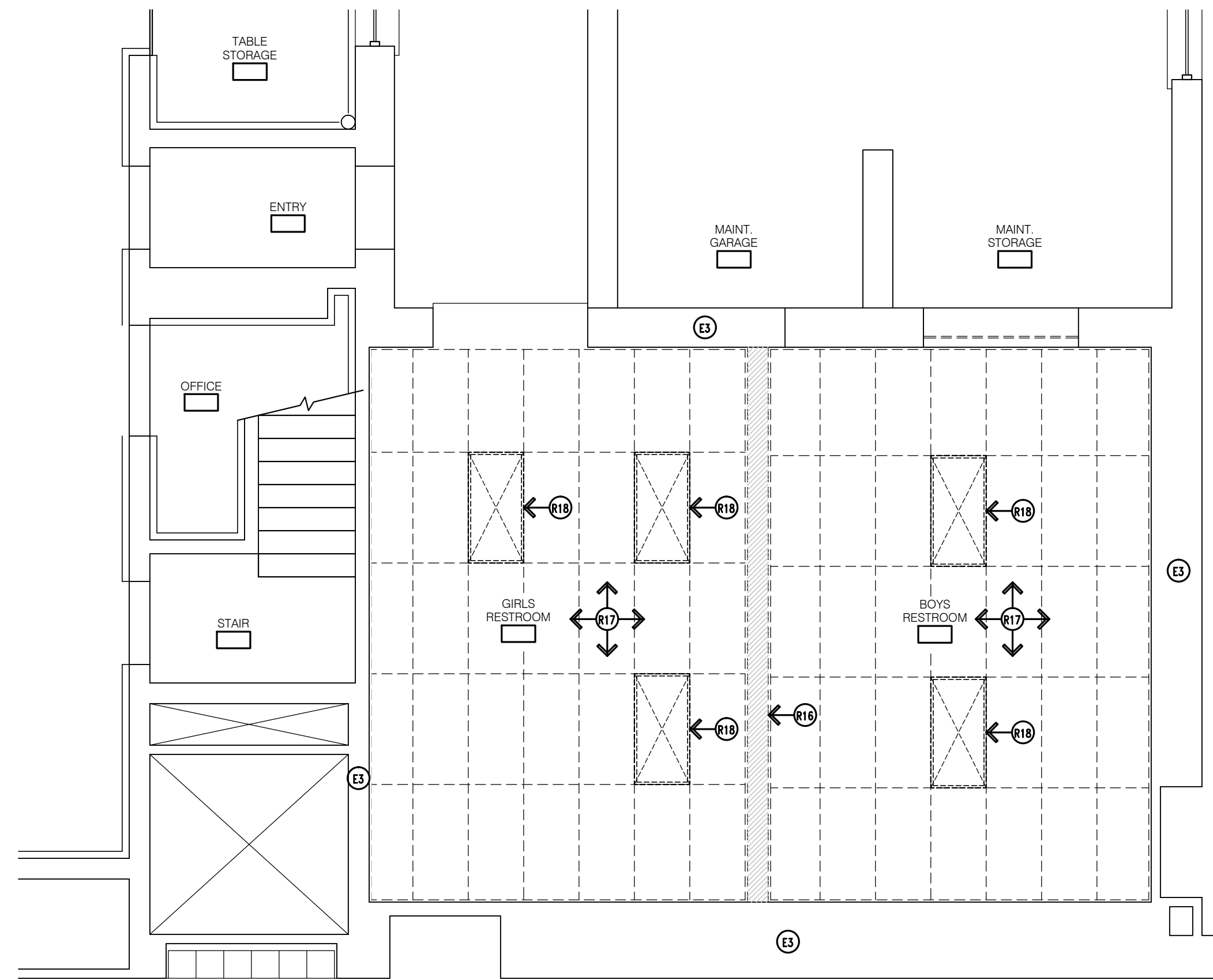
Scale: 1/16" = 1'-0"

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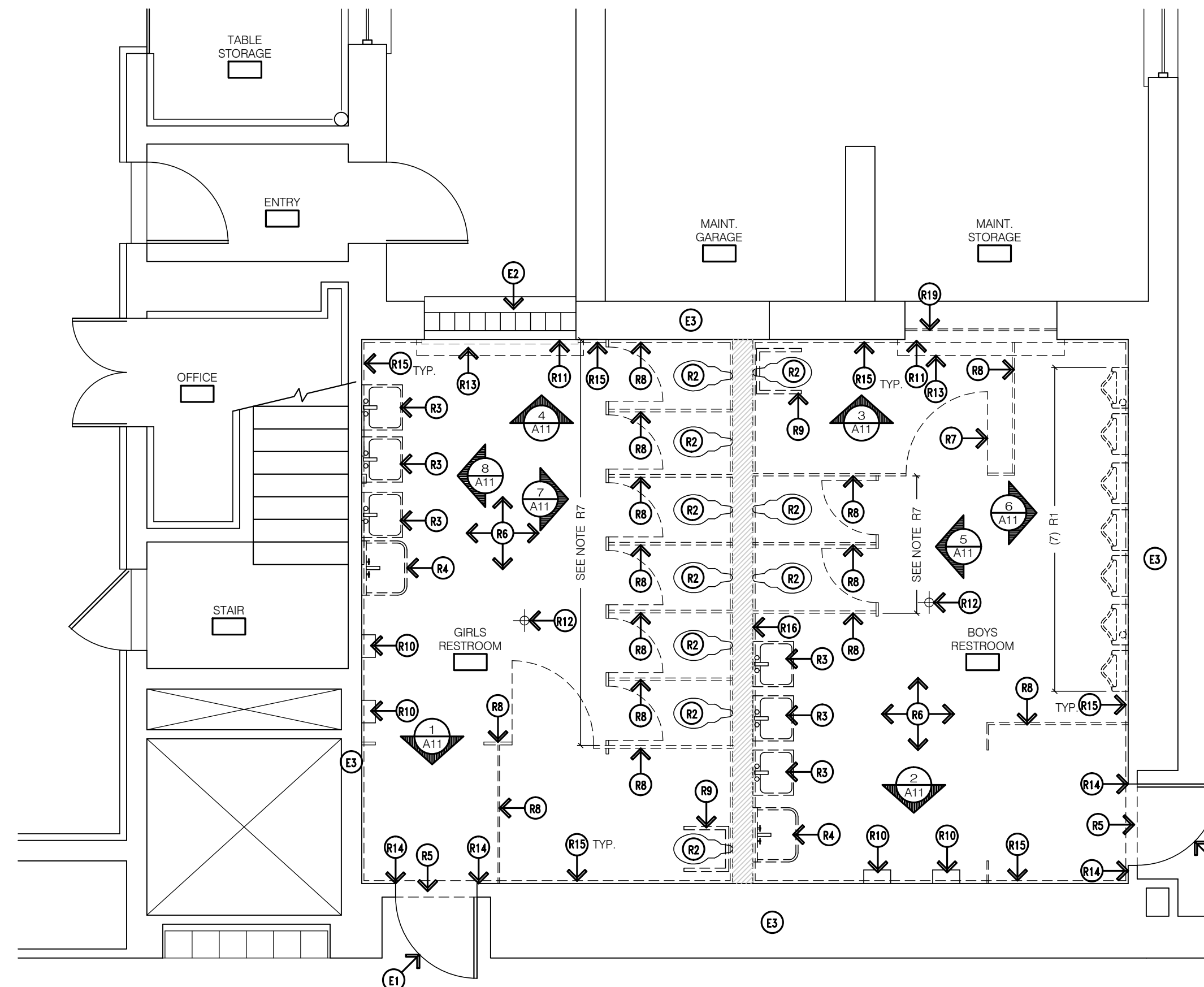
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A01



2
A10
First Floor Reflected Ceiling Plan
1/4" = 1'-0"



1
A10
First Floor Plan
1/4" = 1'-0"

GENERAL REMOVAL NOTES:

- G1. DISPOSE OF ALL ITEMS REMOVED OFF SITE PER LOCAL BUILDING AND SAFETY ORDINANCES. ANY ITEM REQUESTED BY GPPSS TO BE SALVAGED SHALL BE RETURNED TO OWNER.
- G2. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED AND FINISHED BACK TO EXISTING CONDITION.
- G3. DO NOT DISTURB EXISTING UTILITIES TO REMAIN. USE EVERY PRECAUTION TO ENSURE SAFE REMOVAL WORK. INSPECT EXISTING WORK FOR POSSIBLE UNUSUAL CONDITIONS.
- G4. COORDINATE ALL REMOVAL WORK (ARCHITECTURAL REMOVAL WORK, ELECTRICAL REMOVAL WORK, MECHANICAL REMOVAL WORK, ETC.)
- G5. FIRE ALARMS, STROBES, CALL BELLS, PA SYSTEM, ELECTRICAL CIRCUIT BOX, SWITCHES, OUTLETS, WIREMOLD (NOT ASSOCIATED WITH WORK TO BE REMOVED), EMERGENCY LIGHTS WITH BATTERY BACKUP, EXIT LIGHTS, ETC. TO REMAIN IN WORKING ORDER AT ALL TIMES.
- G6. CONTRACTOR TO COORDINATE TIMING OF REMOVAL WORK THAT AFFECTS SCHOOL OPERATIONS SO AS TO NOT CAUSE DISRUPTION TO NORMAL OPERATIONS.
- G7. CONTRACTOR TO FIELD VERIFY EXISTING FLOOR SUBSTRATE PRIOR TO STARTING THE WORK TO ASSURE THAT IT IS AN ACCEPTABLE SURFACE FOR FINISH APPLICATION.
- G8. CONTRACTOR TO FIELD VERIFY EXISTING WALL SUBSTRATE PRIOR TO STARTING THE WORK TO ASSURE THAT IT IS AN ACCEPTABLE SURFACE FOR FINISH APPLICATION.
- G9. PROJECT INTENT IS FOR ALL MECHANICAL, PLUMBING, ELECTRICAL, ETC. TO BE CONCEALED IN WALLS.
- G10. THE RESTROOM WALLS AND CEILING MUST BE PATCHED/REPAIRED BACK TO A SUITABLE 1-HOUR RATING WHEN CONSTRUCTION IS COMPLETE.
- G11. CEILING REMOVALS SHOWN FOR REFERENCE ONLY. EXACT LOCATIONS TO BE DETERMINED BY CONTRACTOR'S MEANS AND METHODS FOR ALL WORK (ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.)
- G12. ALL WALLS ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.

EXISTING ITEMS TO REMAIN:

- E1. WOOD DOOR, WOOD FRAME AND HARDWARE.
- E2. GLASS BLOCK WINDOW
- E3. WALL

REMOVAL NOTES: (REMOVE THE FOLLOWING ITEMS)

- R1. FLOOR MOUNTED URINAL. REFER TO MECHANICAL FOR FURTHER INFORMATION.
- R2. FLOOR MOUNTED WATER CLOSET. REFER TO MECHANICAL FOR FURTHER INFORMATION.
- R3. WALL MOUNTED LAVATORY. REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
- R4. WALL MOUNTED SERVICE SINK. REFER TO MECHANICAL FOR FURTHER INFORMATION.
- R5. MARBLE THRESHOLD
- R6. TERRAZZO FLOORING AND COVERED BASE. REMOVE AS REQUIRED TO PROVIDE NEW EPOXY TERRAZZO FINISH AND REPAIR OVERLAY. REFER TO DETAILS AND SPECIFICATIONS. **INTENT IS NOT TO REMOVE THE FLOOR IN ITS ENTIRETY, ONLY AS NEEDED AT HIGH SPOTS, FLOOR DRAIN, PENETRATIONS EPOXY FINISH, ETC. EXISTING COVE BASE IS INTENDED TO BE REMOVED COMPLETELY.
- R7. PLASTIC TOILET PARTITION DOOR AND ACCESSORIES.
- R8. MARBLE PARTITION AND TERRAZZO BASE
- R9. GRAB BAR
- R10. ELECTRIC HAND DRYER
- R11. MARBLE WINDOW SILL
- R12. FLOOR DRAIN - REFER TO MECHANICAL FOR FURTHER INFORMATION
- R13. RADIATOR AND PIPING - REFER TO MECHANICAL FOR FURTHER INFORMATION
- R14. WOOD DOOR TRIM - TO BE TO BE REWORKED AFTER NEW WALL TILE IS INSTALLED.
- R15. MARBLE WALL PANEL AND TOP TRIM PIECE. TO BE REMOVED BY ENVIRONMENTAL CONTRACTOR, DISPOSAL BY G.C.
- R16. WALL, COMPLETELY (CLAY TILE, MARBLE WALL PANEL, PLASTER, ETC.)
- R17. SUSPENDED CEILING TILES AND METAL GRID - SALVAGE AND RETURN TILES BACK TO OWNER.
- R18. RECESSED LIGHT FIXTURE - SALVAGE AND RETURN TO OWNER - REFER TO ELECTRICAL FOR FURTHER INFORMATION
- R19. WALL SHEATHING AS NEEDED TO INSTALL NEW WALL AS SHOWN ON DRAWING A20

CONTRACTOR COORDINATION:

- **IMPORTANT CONTRACTOR COORDINATION WILL BE REQUIRED BETWEEN GENERAL CONTRACTOR AND ENVIRONMENTAL CONTRACTOR. REFER TO PROJECT MANUAL FOR FURTHER INFORMATION AND MATERIALS SURVEYS.
- C1. GENERAL CONTRACTOR TO REMOVE ALL FIRST FLOOR TOILET PARTITIONS, FIXTURES, ACCESSORIES, ETC. PRIOR TO ENVIRONMENTAL CONTRACTOR COMMENCEMENT.
 - C2. ENVIRONMENTAL CONTRACTOR TO PROTECT FLOOR WITH PLYWOOD
 - C3. ENVIRONMENTAL CONTRACTOR TO REMOVE WALL PLASTER (+/- 4" OF WALL ABOVE MARBLE)
 - C4. ENVIRONMENTAL CONTRACTOR TO REMOVE MARBLE WALL PANELS AND SET ASIDE FOR DISPOSAL BY GENERAL CONTRACTOR.
 - C5. ENVIRONMENTAL CONTRACTOR TO REMOVE ITEMS NOTED IN SURVEY AS HAVING LEAD CONTAINING PAINT (I.E. VENTS, RADIATOR, ETC.)

Bidding: 12 January 2016

Removals Plans

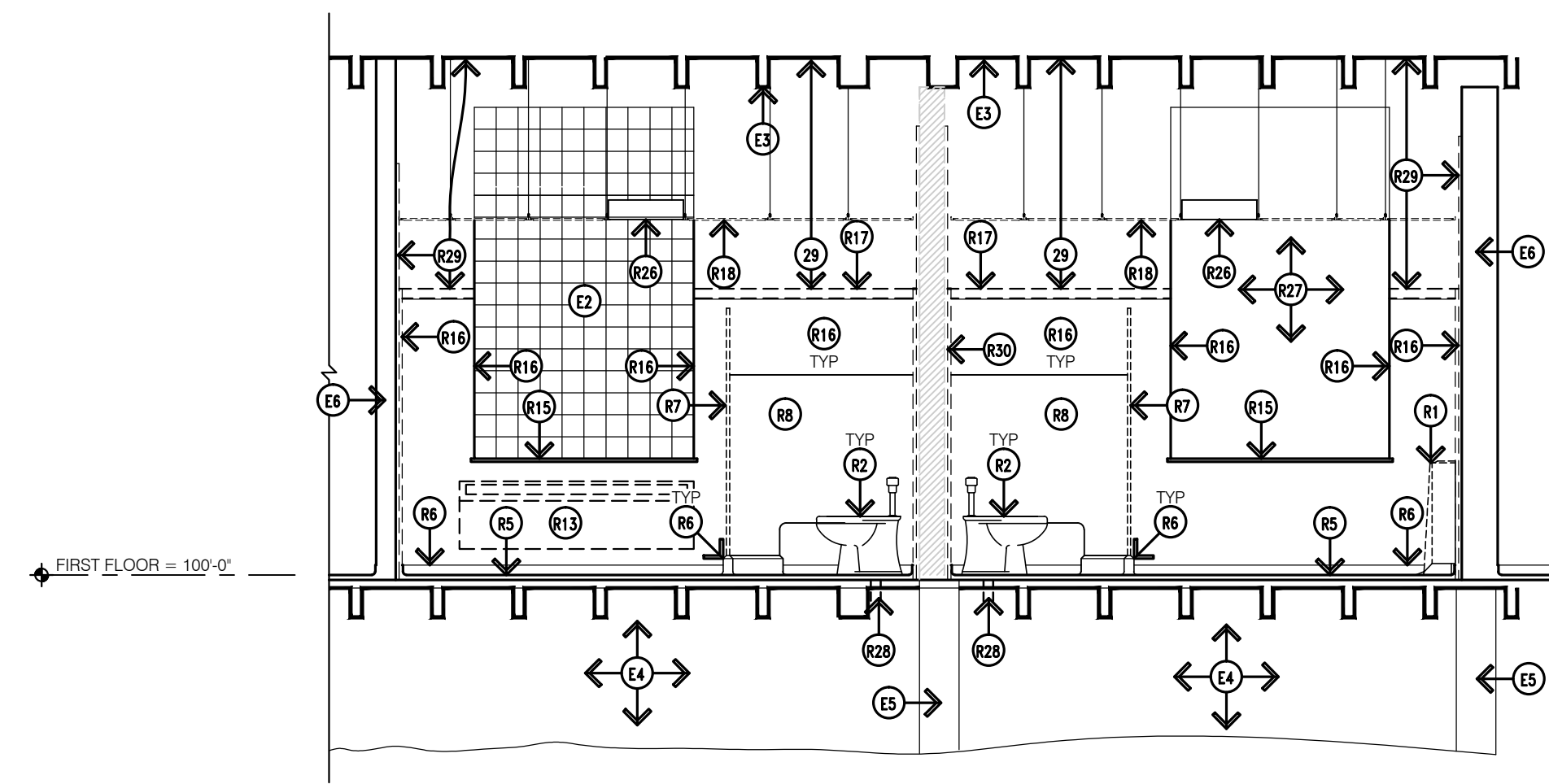
Scale: 1/4" = 1'-0"

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Mason Elementary School
Restroom Remodeling - Phase Two

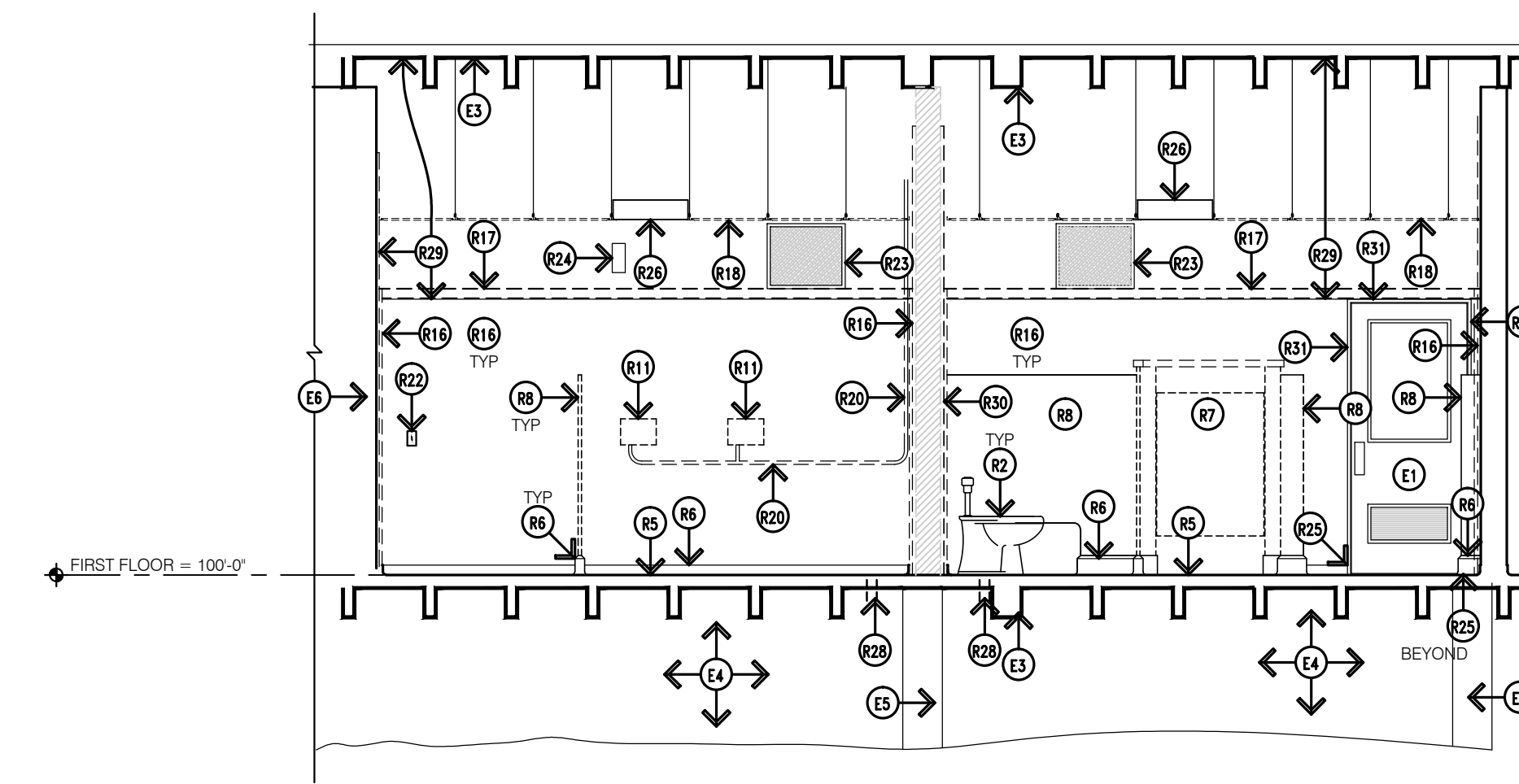
Project No. 9013

A10



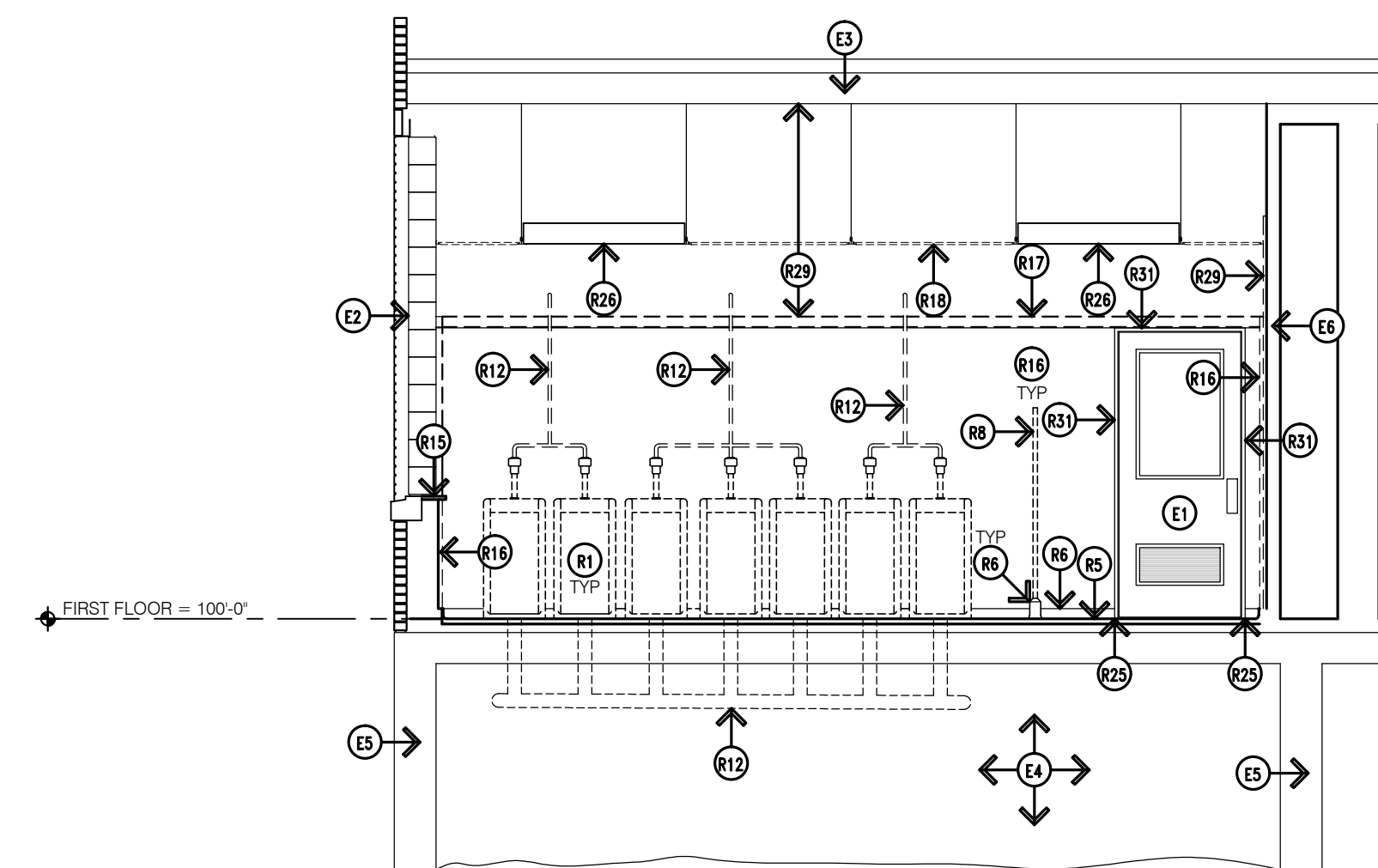
4 Removals North Elevation - Girls
A11 1/4"=1'-0"

3 Removals North Elevation - Boys
A11 1/4"=1'-0"

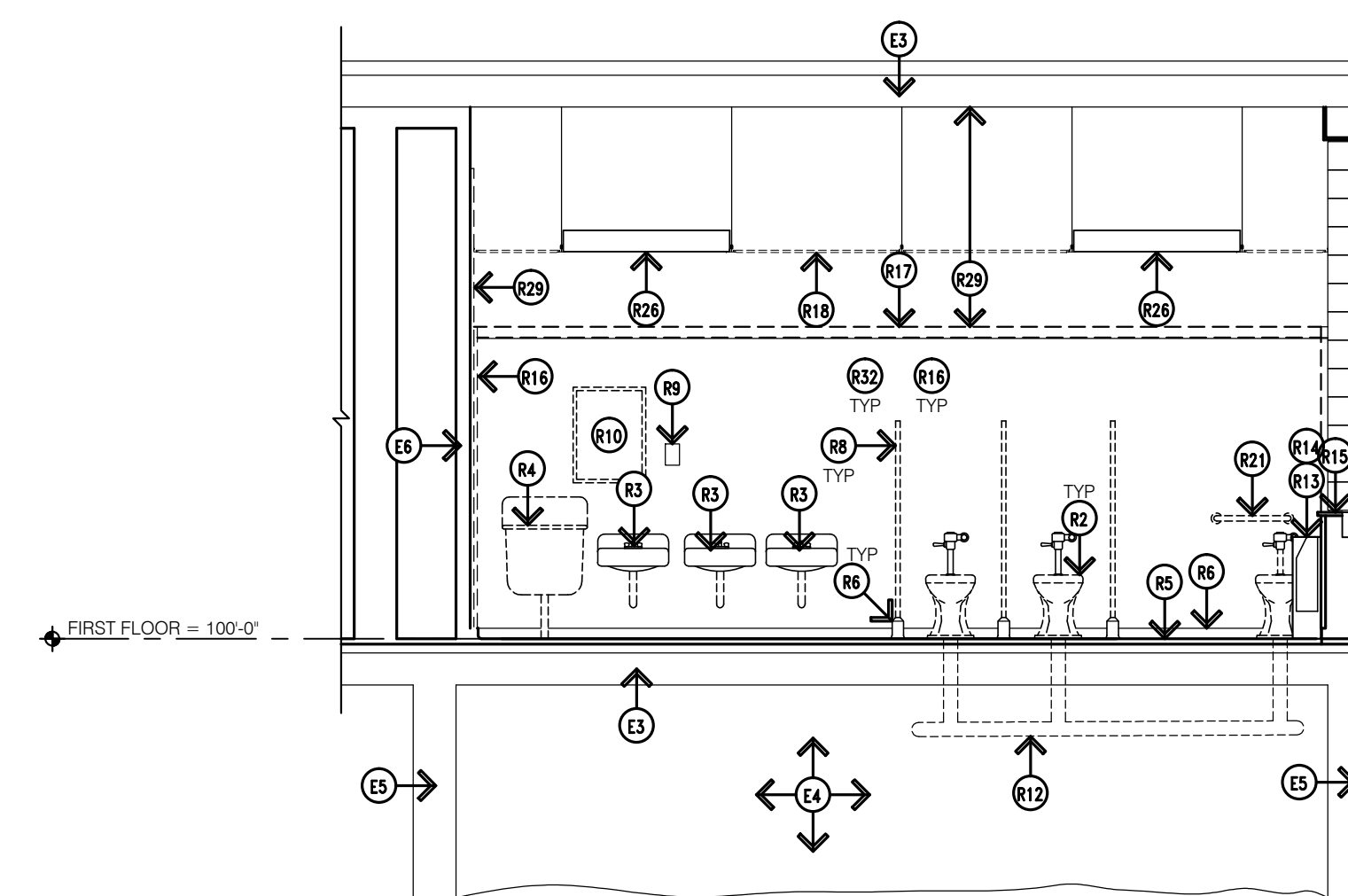


2 Removals South Elevation - Boys
A11 1/4"=1'-0"

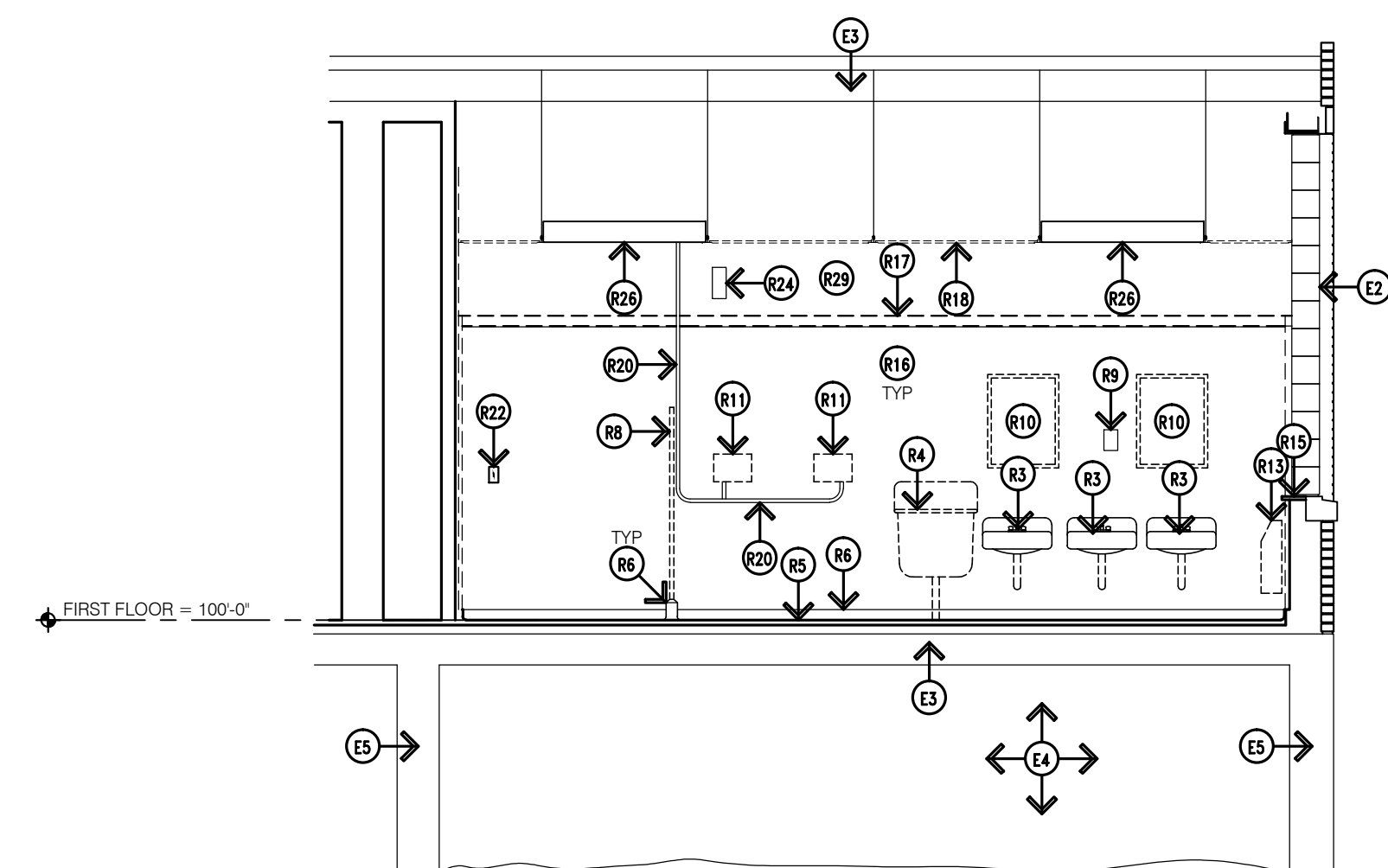
1 Removals South Elevation - Girls
A11 1/4"=1'-0"



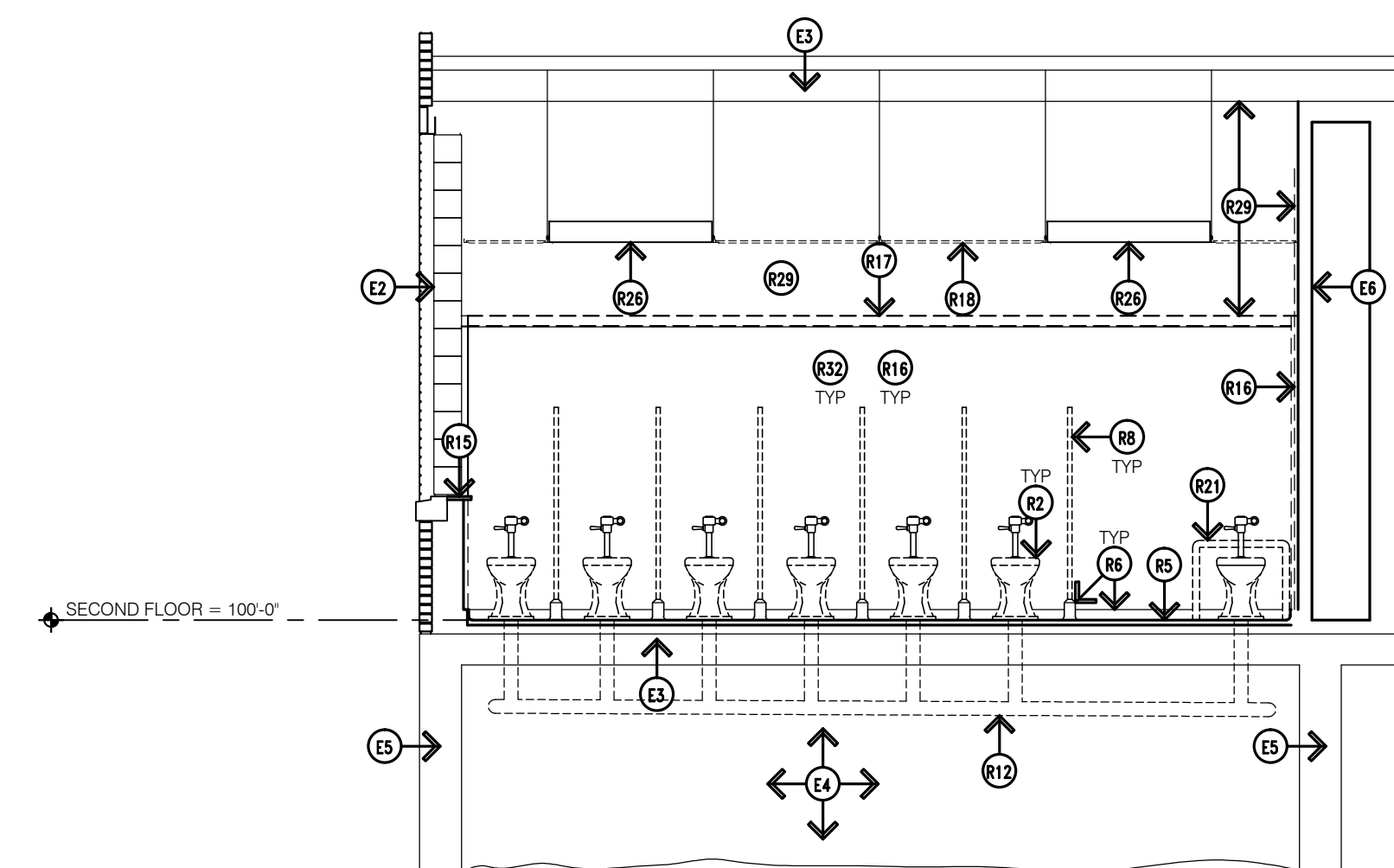
6 Removals East Elevation - Boys
A11 1/4"=1'-0"



5 Removals West Elevation - Boys
A11 1/4"=1'-0"



8 Removals West Elevation - Girls
A11 1/4"=1'-0"



7 Removals East Elevation - Girls
A11 1/4"=1'-0"

GENERAL REMOVAL NOTES:

- G1. DISPOSE OF ALL ITEMS REMOVED OFF SITE PER LOCAL BUILDING AND SAFETY ORDINANCES. ANY ITEM REQUESTED BY GPPSS TO BE SALVAGED SHALL BE RETURNED TO OWNER.
- G2. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED AND FINISHED BACK TO EXISTING CONDITION.
- G3. DO NOT DISTURB EXISTING UTILITIES TO REMAIN. USE EVERY PRECAUTION TO ENSURE SAFE REMOVAL WORK. INSPECT EXISTING WORK FOR POSSIBLE UNUSUAL CONDITIONS.
- G4. COORDINATE ALL REMOVAL WORK (ARCHITECTURAL REMOVAL WORK, ELECTRICAL REMOVAL WORK, MECHANICAL REMOVAL WORK, ETC.)
- G5. FIRE ALARMS, STROBES, CALL BELLS, PA SYSTEM, ELECTRICAL CIRCUIT BOX, SWITCHES, OUTLETS, WIREMOLD (NOT ASSOCIATED WITH WORK TO BE REMOVED), EMERGENCY LIGHTS WITH BATTERY BACKUP, EXIT LIGHTS, ETC. TO REMAIN IN WORKING ORDER AT ALL TIMES.
- G6. CONTRACTOR TO COORDINATE TIMING OF REMOVAL WORK THAT AFFECTS SCHOOL OPERATIONS SO AS TO NOT CAUSE DISRUPTION TO NORMAL OPERATIONS.
- G7. CONTRACTOR TO FIELD VERIFY EXISTING FLOOR SUBSTRATE PRIOR TO STARTING THE WORK TO ASSURE THAT IT IS AN ACCEPTABLE SURFACE FOR FINISH APPLICATION.
- G8. CONTRACTOR TO FIELD VERIFY EXISTING WALL SUBSTRATE PRIOR TO STARTING THE WORK TO ASSURE THAT IT IS AN ACCEPTABLE SURFACE FOR FINISH APPLICATION.
- G9. PROJECT INTENT IS FOR ALL MECHANICAL, PLUMBING, ELECTRICAL ETC. TO BE CONCEALED IN WALLS.
- G10. THE RESTROOM WALLS AND CEILING MUST BE PATCHED/REPAIRED BACK TO A SUITABLE 1-HOUR RATING WHEN CONSTRUCTION IS COMPLETE.
- G11. CEILING REMOVALS SHOWN FOR REFERENCE ONLY. EXACT LOCATIONS TO BE DETERMINED BY CONTRACTORS MEANS AND METHODS FOR ALL WORK (ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.)
- G12. ALL WALLS ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.

EXISTING ITEMS TO REMAIN:

- E1. WOOD DOOR, WOOD FRAME, WOOD TRIM AND HARDWARE
- E2. GLASS BLOCK WINDOW
- E3. CONCRETE BEAM - EXACT CONDITIONS UNKNOWN
- E4. CRAWL SPACE - ECU - CFV
- E5. CONCRETE WALL FOUNDATION/ FOOTING - ECU - CFV
- E6. MASONRY WALL - ECU - CFV

REMOVAL NOTES: (REMOVE THE FOLLOWING ITEMS)

- R1. FLOOR MOUNTED URINAL. REFER TO MECHANICAL FOR FURTHER INFORMATION
- R2. FLOOR MOUNTED WATER CLOSET. REFER TO MECHANICAL FOR FURTHER INFORMATION
- R3. LAVATORY. REFER TO MECHANICAL FOR FURTHER INFORMATION
- R4. WALL MOUNTED SERVICE SINK. REFER TO MECHANICAL FOR FURTHER INFORMATION
- R5. TERRAZZO FLOORING. REMOVE AS REQUIRED TO PROVIDE NEW EPOXY TERRAZZO FINISH AND REPAIR OVERLAY. REFER TO DETAILS AND SPECIFICATIONS. **INTENT IS NOT TO REMOVE THE FLOOR IN ITS ENTIRETY, ONLY AS NEEDED AT HIGH SPOTS, PENETRATIONS, FLOOR DRAIN, EPOXY FINISH, ETC.
- R6. TERRAZZO COVED BASE
- R7. PLASTIC PARTITION
- R8. MARBLE PARTITION
- R9. SOAP DISPENSER. RETURN TO OWNER.
- R10. MIRROR
- R11. HAND DRYER
- R12. PIPING - REFER TO MECHANICAL FOR FURTHER INFORMATION
- R13. RADIATOR AND PIPING - REFER TO MECHANICAL FOR FURTHER INFORMATION
- R14. RADIATOR COVER
- R15. MARBLE WINDOW SILL - BY OWNERS SEPARATE ENVIRONMENTAL CONTRACTOR
- R16. MARBLE WALL PANEL - BY OWNERS SEPARATE ENVIRONMENTAL CONTRACTOR
- R17. MARBLE WALL TRIM BAND - BY OWNERS SEPARATE ENVIRONMENTAL CONTRACTOR
- R18. ACOUSTICAL CEILING TILES AND METAL GRID - SALVAGE AND RETURN TO OWNER
- R19. NOT USED
- R20. ELECTRICAL CONDUIT
- R21. GRAB BAR
- R22. LIGHT SWITCH AND PLATE
- R23. METAL GRATE. RETURN TO OWNER
- R24. AIR FRESHENER
- R25. PLINTH BLOCK - BOTH SIDES OF DOOR
- R26. RECESSED LIGHT FIXTURE. SALVAGE AND RETURN TO OWNER. REFER TO ELECTRICAL FOR FURTHER INFORMATION
- R27. WALL SHEATHING AS NEEDED TO INSTALL NEW WALL AS SHOWN ON DRAWING A20
- R28. CORE THROUGH EXISTING CONCRETE SLAB FOR NEW WASTE PIPE. DO NOT CORE THROUGH BEAM - ECU - CFV.
- R29. WALL PLASTER COMPLETE. DO NOT DISTURB EXISTING WALL TO REMAIN - BY OWNERS SEPARATE ENVIRONMENTAL CONTRACTOR
- R30. WALL COMPLETELY (CLAY TILE, MARBLE WALL PANELS, PLASTER, ETC.)
- R31. WOOD DOOR TRIM - TO BE REWORKED AFTER NEW WALL TILE IS INSTALLED
- R32. WALL - COMPLETELY

Bidding: 12 January 2016

Removals Elevations

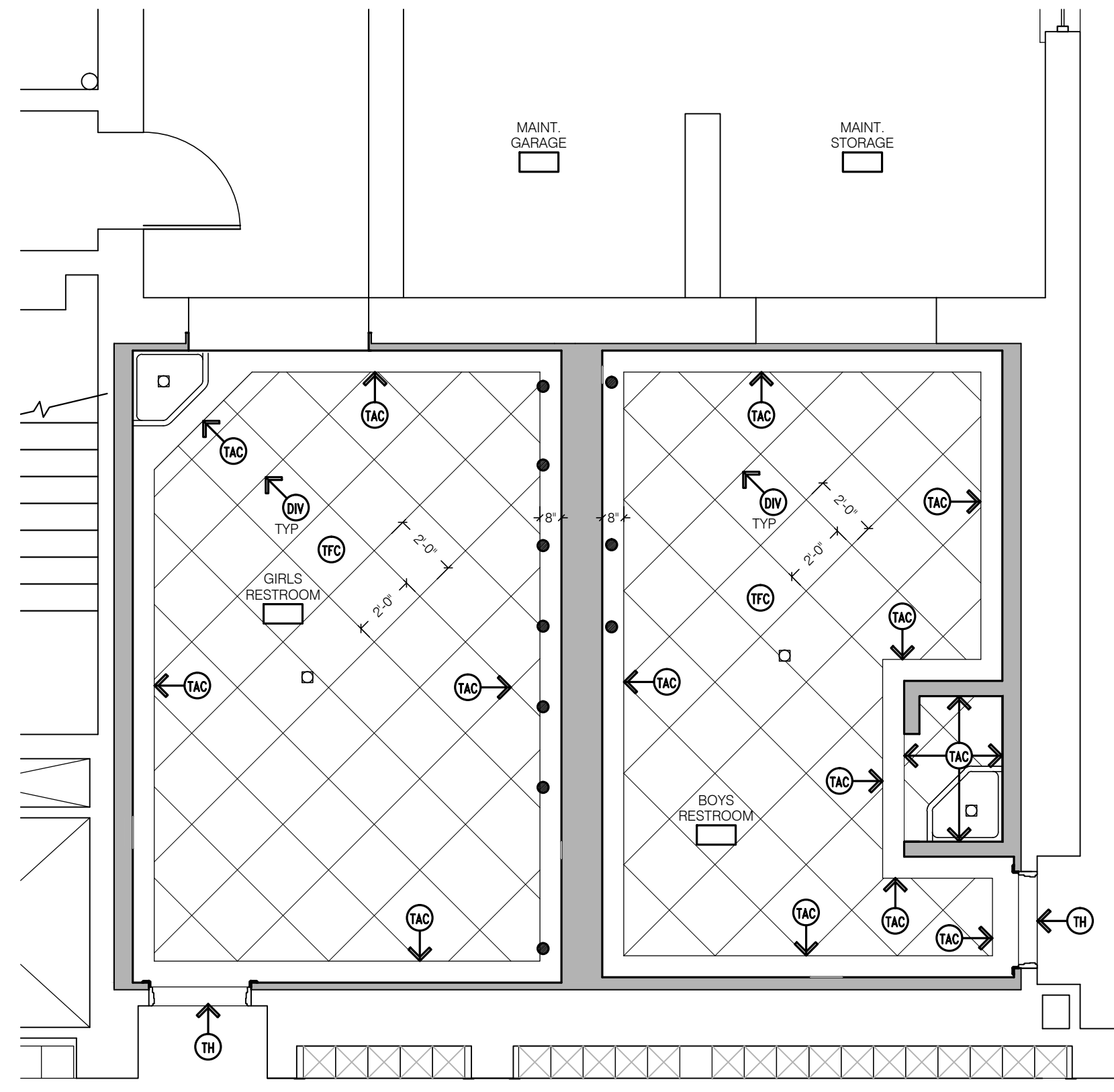
Scale: 1/4"=1'-0"

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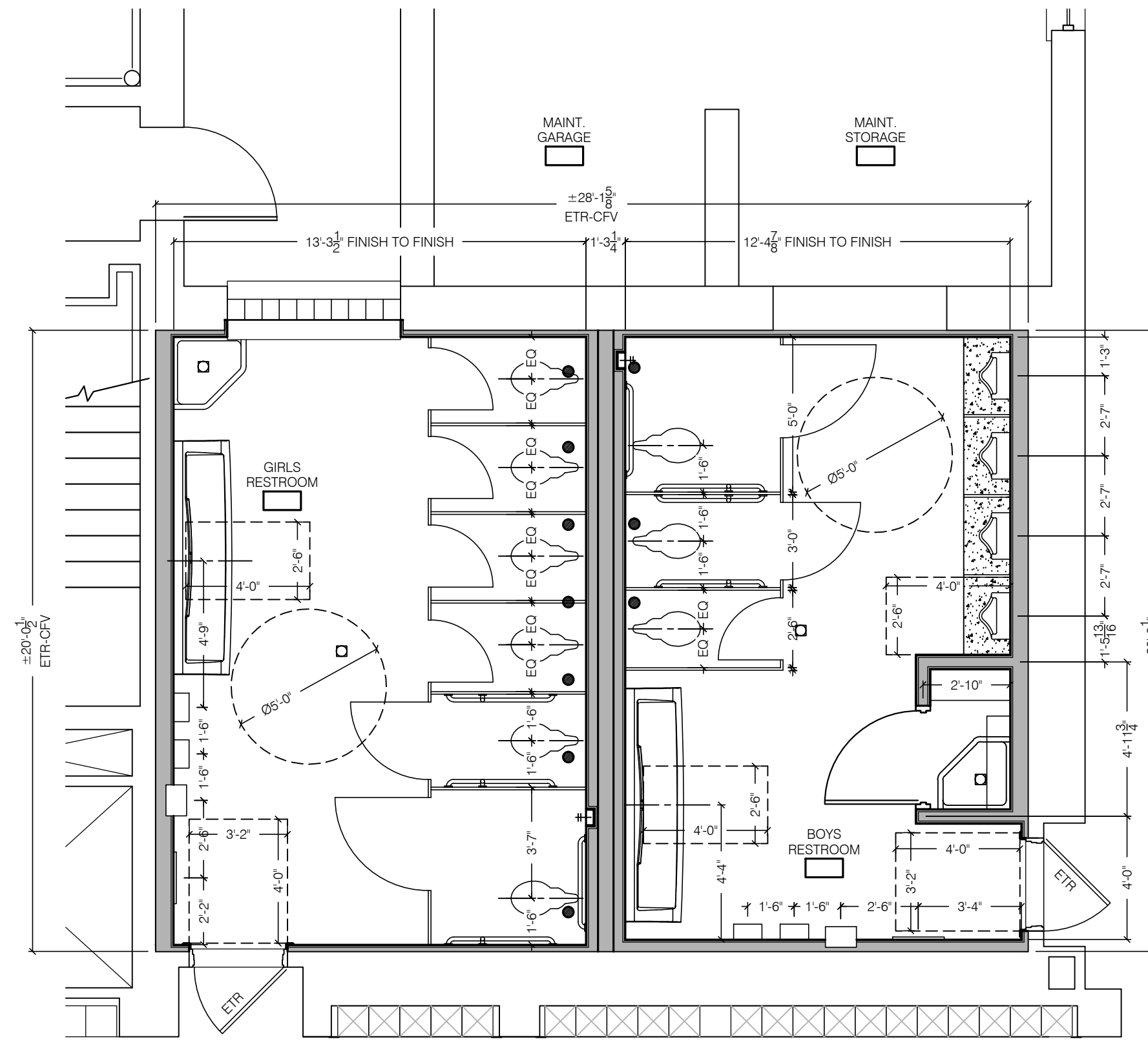
Grosse Pointe Public School System
Mason Elementary School
Restroom Remodeling - Phase Two

Project No. 9013

A11



3 First Floor Finish Plan
1/4" = 1'-0"



2 First Floor Dimension Plan
1/4" = 1'-0"

INTERIOR WALL DESIGNATIONS:

- IW1. CERAMIC TILE TO 5'-11" A.F.F., PER PROJECT MANUAL
 CEMENTITIOUS BACKER BOARD
 1x8" METAL STUD FRAMING @ 16" O.C. TO UNDERSIDE OF FLOOR STRUCTURE ABOVE (STOP MINIMUM 1" BELOW FLOOR STRUCTURE ABOVE FOR FLOOR DEFLECTION WITH SLIP TRACK)
 SOUND INSULATION
 EXISTING WALL STRUCTURE
 ABOVE CERAMIC TILE PROVIDE TYPE "X" MOLD & MOISTURE RESISTANT GYPSUM BOARD, TAPED AND FINISHED THREE COATS TO UNDERSIDE OF EXISTING STRUCTURE ABOVE (STOP MINIMUM 1-1/2" BELOW TO ALLOW FOR DEFLECTION). INSTALL FIRE SAFING AT TOP OF WALL.
- IW2. CERAMIC TILE TO 5'-11" A.F.F., PER PROJECT MANUAL
 CEMENTITIOUS BACKER BOARD
 3x8" METAL STUD FRAMING @ 16" O.C. TO UNDERSIDE OF FLOOR STRUCTURE ABOVE (STOP MINIMUM 1" BELOW FLOOR STRUCTURE ABOVE FOR FLOOR DEFLECTION WITH SLIP TRACK)
 EXISTING WALL STRUCTURE
 ABOVE CERAMIC TILE PROVIDE TYPE "X" MOLD & MOISTURE RESISTANT GYPSUM BOARD, TAPED AND FINISHED THREE COATS TO UNDERSIDE OF EXISTING STRUCTURE ABOVE (STOP MINIMUM 1-1/2" BELOW TO ALLOW FOR DEFLECTION). INSTALL FIRE SAFING AT TOP OF WALL.
- IW3. CERAMIC TILE TO 5'-11" A.F.F., PER PROJECT MANUAL
 CEMENTITIOUS BACKER BOARD
 6" METAL STUD FRAMING @ 16" O.C. TO UNDERSIDE OF FLOOR STRUCTURE ABOVE (STOP MINIMUM 1" BELOW FLOOR STRUCTURE ABOVE FOR FLOOR DEFLECTION WITH SLIP TRACK)
 EXISTING WALL STRUCTURE
 ABOVE CERAMIC TILE PROVIDE TYPE "X" MOLD & MOISTURE RESISTANT GYPSUM BOARD, TAPED AND FINISHED (PRIMER PLUS TWO COATS) TO UNDERSIDE OF EXISTING STRUCTURE ABOVE (STOP MINIMUM 1-1/2" BELOW TO ALLOW FOR DEFLECTION). INSTALL FIRE SAFING AT TOP OF WALL.
- IW4. CERAMIC TILE TO 5'-11" A.F.F., PER PROJECT MANUAL
 CEMENTITIOUS BACKER BOARD
 3x8" METAL STUD FRAMING @ 16" O.C. (12 GAUGE) TO UNDERSIDE OF FLOOR STRUCTURE ABOVE (STOP MINIMUM 1" BELOW FLOOR STRUCTURE ABOVE FOR FLOOR DEFLECTION WITH SLIP TRACK)
 SOUND INSULATION
 6" PIPE SPACE
 3x8" METAL STUD FRAMING @ 16" O.C. (12 GAUGE) TO UNDERSIDE OF FLOOR STRUCTURE ABOVE (STOP MINIMUM 1" BELOW FLOOR STRUCTURE ABOVE FOR FLOOR DEFLECTION WITH SLIP TRACK)
 CEMENTITIOUS BACKER BOARD
 ABOVE CERAMIC TILE PROVIDE TYPE "X" MOLD & MOISTURE RESISTANT GYPSUM BOARD, TAPED AND FINISHED (PRIMER PLUS TWO COATS) TO UNDERSIDE OF EXISTING STRUCTURE ABOVE (STOP MINIMUM 1-1/2" BELOW TO ALLOW FOR DEFLECTION). INSTALL FIRE SAFING AT TOP OF WALL.
- IW5. NOT USED
- IW6. CERAMIC TILE TO 5'-11" A.F.F., PER PROJECT MANUAL
 CEMENTITIOUS BACKER BOARD
 3x8" METAL STUD FRAMING @ 16" O.C. TO UNDERSIDE OF FLOOR STRUCTURE ABOVE (STOP MINIMUM 1" BELOW FLOOR STRUCTURE ABOVE FOR FLOOR DEFLECTION WITH SLIP TRACK)
 CEMENTITIOUS BACKER BOARD
 CERAMIC TILE TO 5'-11" A.F.F., PER PROJECT MANUAL
 ABOVE CERAMIC TILE PROVIDE TYPE "X" MOLD & MOISTURE RESISTANT GYPSUM BOARD, TAPED AND FINISHED (PRIMER PLUS TWO COATS) TO UNDERSIDE OF EXISTING STRUCTURE ABOVE (STOP MINIMUM 1-1/2" BELOW TO ALLOW FOR DEFLECTION). INSTALL FIRE SAFING AT TOP OF WALL.

GENERAL NOTES:

- G1. COORDINATE ALL WORK (ARCHITECTURAL WORK, ELECTRICAL WORK, MECHANICAL WORK, PLUMBING WORK, ETC.)
 - G2. ALL WALLS ARE EXISTING UNLESS OTHERWISE INDICATED.
 - G3. CONTRACTOR TO COORDINATE TIMING OF WORK THAT AFFECTS SCHOOL OPERATIONS SO AS TO NOT CAUSE DISRUPTION TO NORMAL OPERATIONS.
 - G4. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
 - G5. INTENTION IS THAT ALL STALLS ARE THE SAME SIZE EXCEPT FOR BARRIER FREE STALLS.
 - G6. TOILET TISSUE DISPENSERS WILL BE FURNISHED BY THE OWNER AND INSTALLED BY THIS CONTRACTOR (ONE PER STALL).
 - G7. INTENT IS THAT ALL EXISTING AND NEW PIPING IS TO BE CONCEALED
 - G8. PROVIDE NON-COM WOOD BLOCKING AS REQUIRED BY MANUFACTURER. BLOCKING IS NOT ALWAYS CALLED OUT FOR ON PLANS.
- DRAWING NOTES:**
1. FLOOR MOUNTED, OVERHEAD BRACED PLASTIC TOILET COMPARTMENT WITH DOOR, HINGES, SLIDE LATCH, DOOR PULL, COAT HOOK, ETC. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
 2. WALL MOUNTED, PLASTIC URINAL SCREEN WITH CONTINUOUS WALL BRACKET. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
 3. FLOOR MOUNTED TOILET WITH AUTOMATIC FLUSH VALVE. MOUNTED WITH RIM AT 17" A.F.F. REFER TO MECHANICAL FOR FURTHER INFORMATION.
 4. WALL MOUNTED URINAL WITH AUTOMATIC FLUSH VALVE. MOUNTED WITH RIM AT 17" A.F.F. REFER TO MECHANICAL FOR FURTHER INFORMATION. PROVIDE CONCEALED CARRIER WITH FLOOR SUPPORTED STANCHIONS.
 5. FLOOR DRAIN. REFER TO MECHANICAL FOR FURTHER INFORMATION.
 6. FLOOR MOUNTED MOP SINK. REFER TO MECHANICAL FOR FURTHER INFORMATION.
 7. WALL MOUNTED WASH FOUNTAIN. PROVIDE ALL NECESSARY CONCEALED CARRIERS.
 8. ELECTRIC HAND DRYER. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
 9. MIRROR. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
 10. GRAB BAR. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION. MOUNT PER ALL BARRIER FREE REQUIREMENTS.
 11. SEMI-RECESSED TRASH RECEPTACLE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
 12. UTILITY SHELF WITH MOP/BROOM HOLDERS AND RAG HOOKS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
 13. LOCATION OF WIRELESS AUTOMATIC DOOR ACTUATOR, PER SECTION 0871.1.
 14. REPLACE DOOR CLOSER WITH AUTOMATIC DOOR OPERATOR, PER SECTION 0871.1. OPERATOR TO BE PUSH SIDE MODEL.
 15. RECESSED HOSE BIBB WITH LOCKABLE COVER. REFER TO MECHANICAL FOR FURTHER INFORMATION.
 16. MARBLE WINDOW SILL.
 17. COATED WIRE SHELVING WITH METAL SHELF STANDARDS. CONFIRM SHELF SPACING WITH OWNER PRIOR TO ORDER AND INSTALLATION, OR PLYWOOD, EDGED AND PAINTED.
 18. NEW WOOD TRIM AT EXISTING DOOR (TOP AND SIDES). REFER TO DETAILS FOR FURTHER INFORMATION. MATCH EXISTING PROFILE, SPECIES, STAIN, ETC.
 19. APPROXIMATE LOCATION OF REMOVED TOILET WASTE PIPING. INFILL CONCRETE SUB FLOOR AT DRAIN PENETRATION. REFER TO DETAILS FOR FURTHER INFORMATION.
 20. CONTRACTOR SHOULD ANTICIPATE HAVING TO REPAIR EXISTING FLOOR STRUCTURE AT REMOVED FLOOR MOUNTED URINALS. REFER TO DETAIL AND SPECIFICATIONS FOR FURTHER INFORMATION.

GENERAL ROOM FINISH NOTES:

- RF1. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
- RF2. REFER TO SPECIFICATIONS AND INTERIOR ELEVATIONS FOR CERAMIC TILE DESIGNATIONS
- RF3. CERAMIC TILE GROUT JOINTS TO BE 1/8"
- INTERIOR FINISH ABBREVIATIONS:**
- DIV TERRAZZO DIVIDER STRIP
- TH TERRAZZO THRESHOLD, TO MATCH BASE/BORDER. PROVIDE SLOPES PER ALL BARRIER FREE REQUIREMENTS.
- TAC TERRAZZO ACCENT/BASE COLOR - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION. THIS COLOR TO BE USED FOR INTEGRAL BASE ALSO.
- TFC TERRAZZO FIELD COLOR - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.

DOOR NOTES:

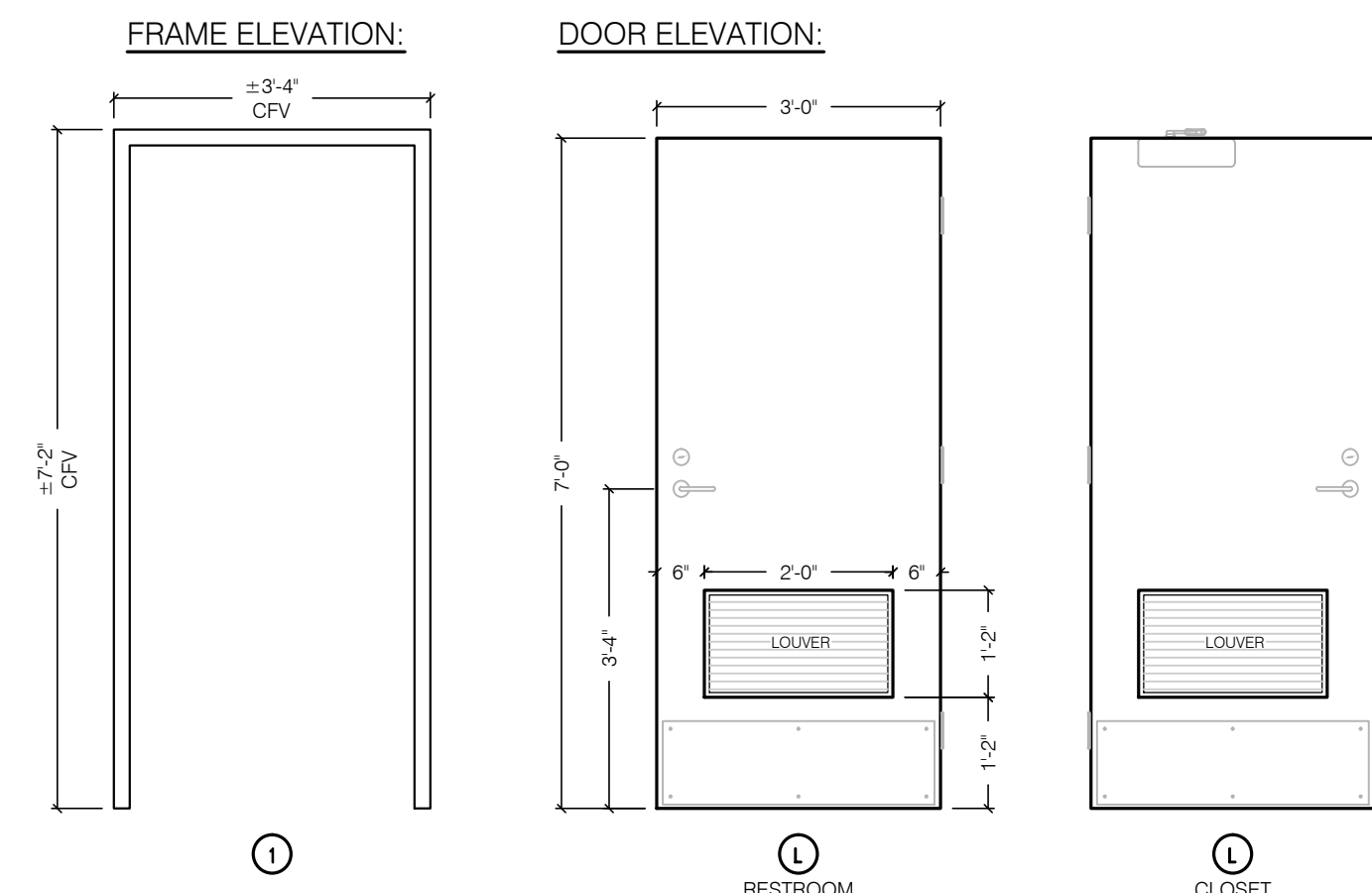
- D1 MATCH EXISTING STAIN COLOR

HARDWARE NOTES:

- H1 REFER TO SPECIFICATIONS FOR HARDWARE SET INFORMATION

FRAME NOTES:

- F1 MATCH EXISTING STAIN COLOR

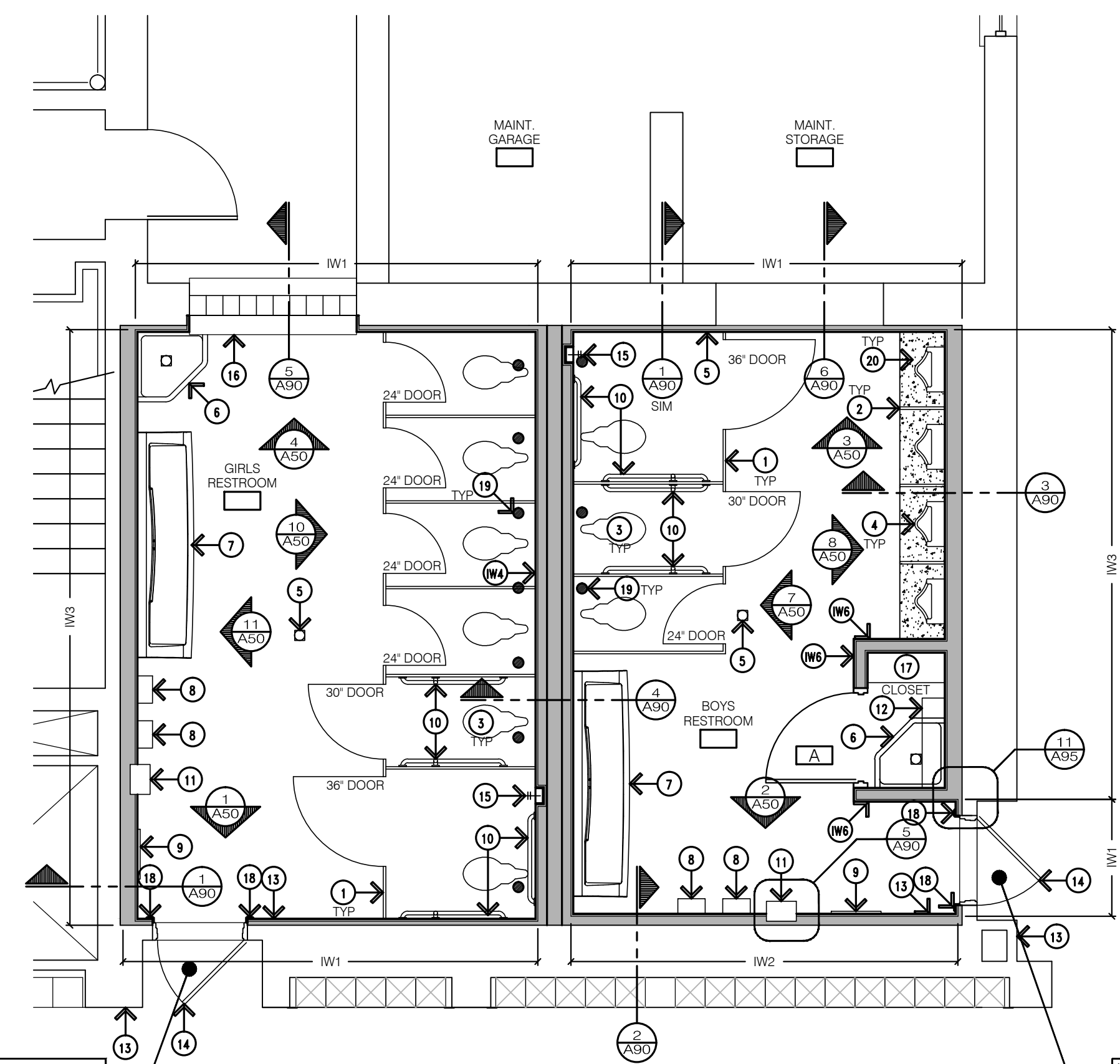


FINISH SCHEDULE									
ROOM NAME	FLOOR	BASE	WALLS				CEILING	REMARKS	
			WEST	EAST	NORTH	SOUTH			
BOYS RESTROOM	EPOXY TERRAZZO	EPOXY TERRAZZO	GB (PTD) CT1, CT2 AT1	GB (PTD) CT1, CT2 AT1	GB (PTD) CT1, CT2 AT1	GB (PTD) CT1, CT2 AT1	ACT	9'-0"	RF1, RF2 & RF3
GIRLS RESTROOM	EPOXY TERRAZZO	EPOXY TERRAZZO	GB (PTD) CT1, CT2 AT1	GB (PTD) CT1, CT2 AT1	GB (PTD) CT1, CT2 AT1	GB (PTD) CT1, CT2 AT1	ACT	9'-0"	RF1, RF2 & RF3
CLOSET	EPOXY TERRAZZO	EPOXY TERRAZZO	GB (PTD)	GB (PTD)	GB (PTD)	GB (PTD)	ACT	8'-0"	RF1, RF2 & RF3

DOOR SCHEDULE																	
DOOR NO	OPENING LOCATION	FIRE RATING	HARDW. SET #1	LOCK FUNCTION	FRAME INFORMATION					DOOR INFORMATION							
					OPENING WIDTH	OPENING HEIGHT	FRAME ELEV.	JAMB DEPTH	FRAME DEPTH	FRAME FINISH	FRAME REMARKS	DOOR SIZE	DOOR THICK.	DOOR ELEV.	DOOR MATER.	DOOR FINISH	DOOR REMARKS
A	TO BOYS RESTROOM FROM CLOSET	N/A	SET #1	CLASSROOM LOCK	3'-4"	7'-2"	1	5-3/4"	WOOD	STN	NOTE F1	3'-0"x7'-0"	1-3/4"	L	WOOD	STN	NOTES D1 AND H1

IMPORTANT NOTE:
 IT IS UNDERSTOOD THAT THE EXISTING DOORS TO REMAIN DO NOT MEET THE MANEUVERING CLEARANCE FOR SWINGING DOORS PER ICC/ANSI A117.1 SECTION 404.2.3.1. A BARRIER FREE DESIGN EXCEPTION WAS GRANTED ON MAY 20, 2019 (PROJECT NO. 104656, EXCEPTION NO. 13-000247-BCC).

IMPORTANT NOTE:
 IT IS UNDERSTOOD THAT THE EXISTING DOORS TO REMAIN DO NOT MEET THE MANEUVERING CLEARANCE FOR SWINGING DOORS PER ICC/ANSI A117.1 SECTION 404.2.3.1. A BARRIER FREE DESIGN EXCEPTION WAS GRANTED ON MAY 20, 2019 (PROJECT NO. 104656, EXCEPTION NO. 13-000247-BCC).



1 First Floor Plan
1/4" = 1'-0"

Bidding: 12 January 2016

Floor & Dimensioned Plans Scale as Noted

Ehresman Associates, Inc.
 architects + engineers

Grosse Pointe Public School System
 Mason Elementary School
 Restroom Remodeling - Phase Two

Project No. 9013

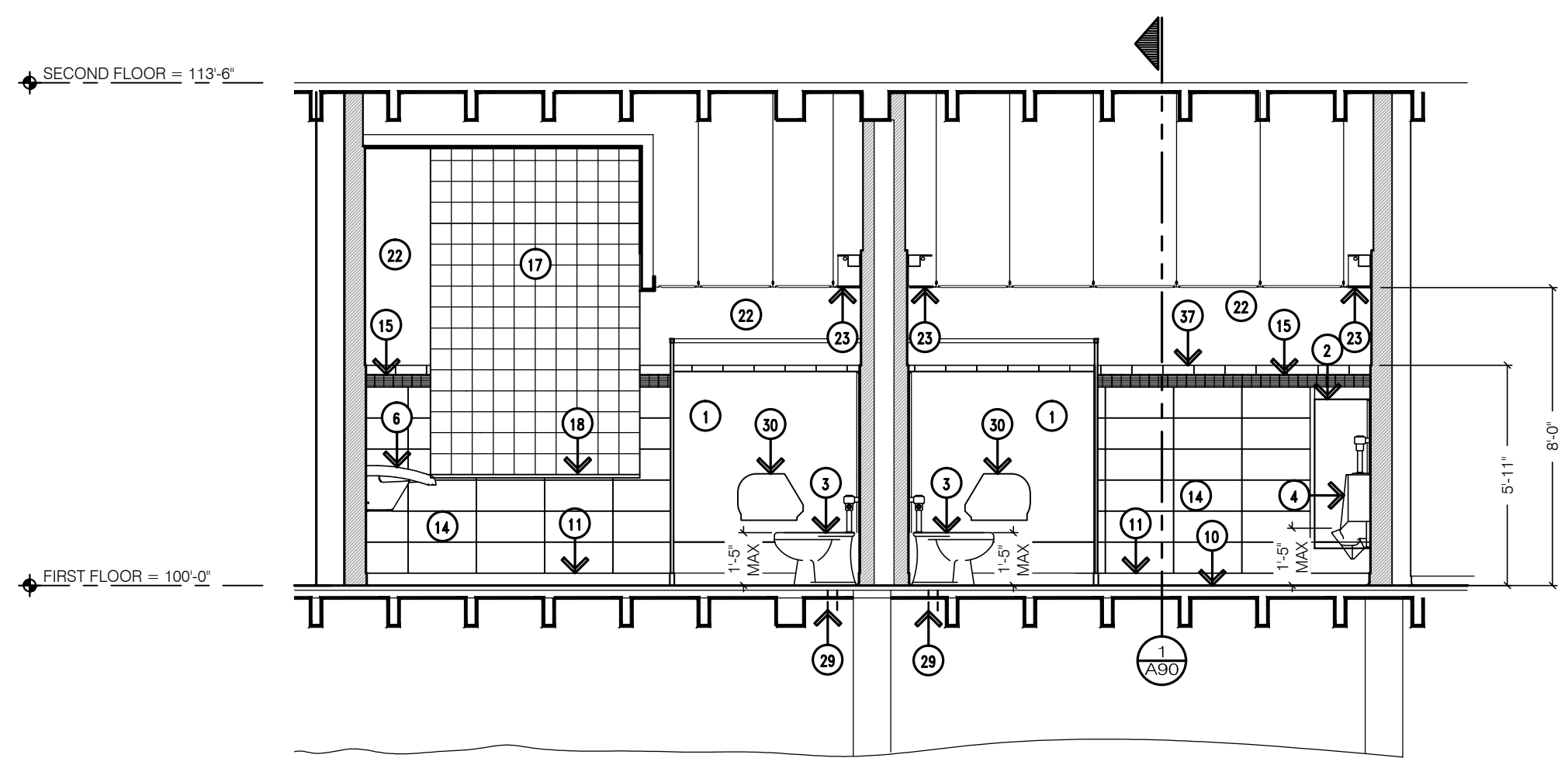
A20

GENERAL NOTES:

- G1. ALL WALLS ARE EXISTING UNLESS OTHERWISE INDICATED.
- G2. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK. CONFIRM ALL DIMENSIONS PRIOR TO LAYOUT.
- G3. REFER TO ROOM FINISH SCHEDULE FOR FURTHER INFORMATION.

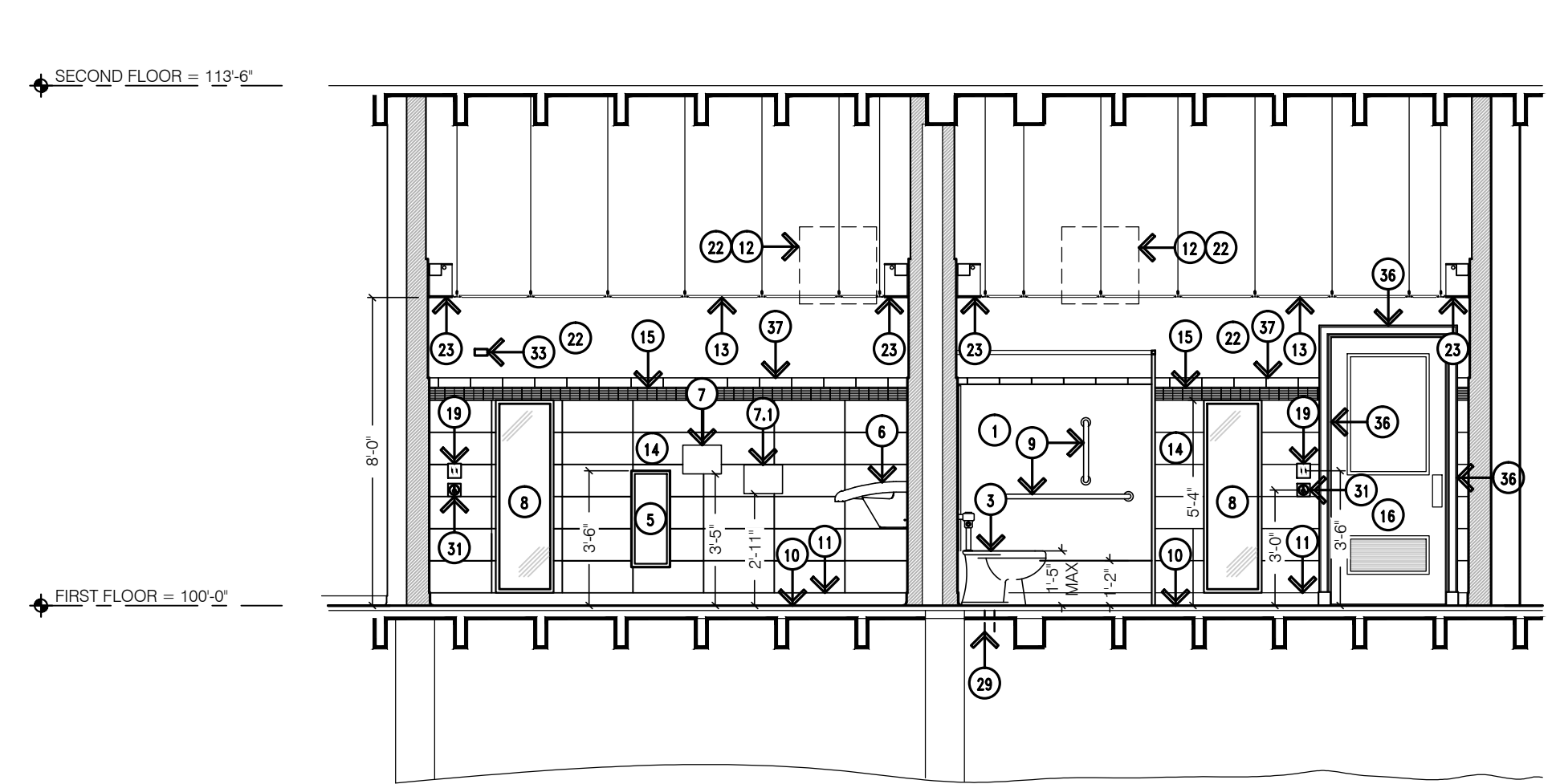
DRAWING NOTES:

- 1. FLOOR MOUNTED, OVERHEAD BRACED PLASTIC TOILET COMPARTMENT WITH DOOR, HINGES, SLIDE LATCH, DOOR PULL, COAT HOOK, ETC. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 2. WALL MOUNTED PLASTIC URINAL SCREEN WITH CONTINUOUS BRACKET FOR FURTHER INFORMATION.
- 3. WALL MOUNTED TOILET WITH AUTOMATIC FLUSH VALVE. REFER TO MECHANICAL FOR FURTHER INFORMATION.
- 4. FLOOR MOUNTED URINAL WITH AUTOMATIC FLUSH VALVE. REFER TO MECHANICAL FOR FURTHER INFORMATION. PROVIDE CONCEALED WALL CARRIER WITH FLOOR SUPPORTED STANCHIONS.
- 5. SEMI RECESSED TRASH RECEPTACLE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 6. WALL MOUNTED WASH FOUNTAIN.
- 7. ELECTRIC HAND DRYER. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 7.1 ELECTRIC HAND DRYER, MOUNTED AT BARRIER FREE HEIGHT. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 8. MIRROR. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 9. GRAB BAR. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 10. EPOXY TERRAZZO FLOOR (FIELD COLOR). REFER TO INTERIOR DETAILS AND SPECIFICATIONS FOR FURTHER INFORMATION. INTENT IS TO BE INSTALLED OVER EXISTING TERRAZZO FLOORING.
- 11. COVED EPOXY TERRAZZO BASE (ACCENT COLOR). REFER TO INTERIOR DETAILS AND SPECIFICATIONS FOR FURTHER INFORMATION.
- 12. ORIGINAL LOCATION OF WALL DIFFUSER. INFILL OPENING, COORDINATE WITH NEW DUCTWORK ON MECHANICAL.
- 13. ACOUSTICAL CEILING TILE AND GRID. REFER TO REFLECTED CEILING PLAN FOR FURTHER INFORMATION.
- 14. CERAMIC WALL FIELD TILE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 15. CERAMIC WALL ACCENT TILE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 16. EXISTING DOOR, FRAME AND HARDWARE TO REMAIN REPLACE CLOSER AND TRIM AS NOTED.
- 17. EXISTING GLASS BLOCK WINDOW TO REMAIN.
- 18. MARBLE WINDOW SILL.
- 19. KEYS LIGHT SWITCH AND SWITCH PLATE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 20. GFI CONVENIENCE DUPLEX OUTLET WITH COVER PLATE. REFER TO ELECTRICAL AND SPECIFICATIONS FOR FURTHER INFORMATION.
- 21. PAINTED GYPSUM BOARD WINDOW SOFFIT. REFER TO REFLECTED CEILING PLAN FOR FURTHER INFORMATION.
- 22. PAINTED GYPSUM BOARD. REFER TO INTERIOR WALL DESIGNATIONS AND SPECIFICATIONS FOR FURTHER INFORMATION.
- 23. RECESSED LIGHT FIXTURE. REFER TO REFLECTED CEILING PLAN AND ELECTRICAL FOR FURTHER INFORMATION.
- 24. UNIT HEATER WITH BLOWER & DUCT WORK. REFER TO REFLECTED CEILING PLAN AND MECHANICAL FOR FURTHER INFORMATION.
- 25. RETURN GRILLE & DUCT WORK. REFER TO REFLECTED CEILING PLAN AND MECHANICAL FOR FURTHER INFORMATION.
- 26. CEILING MOUNTED FIRE ALARM STROBE. CONNECT TO NEW CONCEALED WIRING COORDINATE WITH FIRE ALARM CONTRACTOR, REFER TO REFLECTED CEILING PLAN AND ELECTRICAL PLAN.
- 27. DOOR FRAME AND HARDWARE. REFER TO DOOR SCHEDULE AND SPECIFICATIONS FOR FURTHER INFORMATION.
- 28. SOAP DISPENSER. PROVIDED BY OWNER FOR INSTALLATION BY CONTRACTOR.
- 29. PIPING. REFER TO MECHANICAL FOR FURTHER INFORMATION.
- 30. TOILET PAPER DISPENSER. PROVIDED BY OWNER FOR INSTALLATION BY CONTRACTOR.
- 31. LOCATION OF WIRELESS ACTUATOR.
- 32. RECESSED WALL HYDRANT & COVER. REFER TO MECHANICAL FOR FURTHER INFORMATION.
- 33. APPROXIMATE LOCATION OF THERMOSTAT/SENSOR. DEVICE COVER TO BE WHITE. PROVIDE LOCKABLE COVER. REFER TO MECHANICAL FOR FURTHER INFORMATION.
- 34. FLOOR MOUNTED SERVICE SINK. REFER TO MECHANICAL FOR FURTHER INFORMATION.
- 35. FILL IN AREA (OLD GLASS BLOCK WINDOW LOCATION) FLUSH TO FACE OF WALL. REFER TO 'TWS' DESCRIPTION ON FLOOR PLAN.
- 36. NEW WOOD TRIM, STAINED TO MATCH EXISTING. REFER TO A95 FOR FURTHER INFORMATION.
- 37. TILE TRIM PIECE.



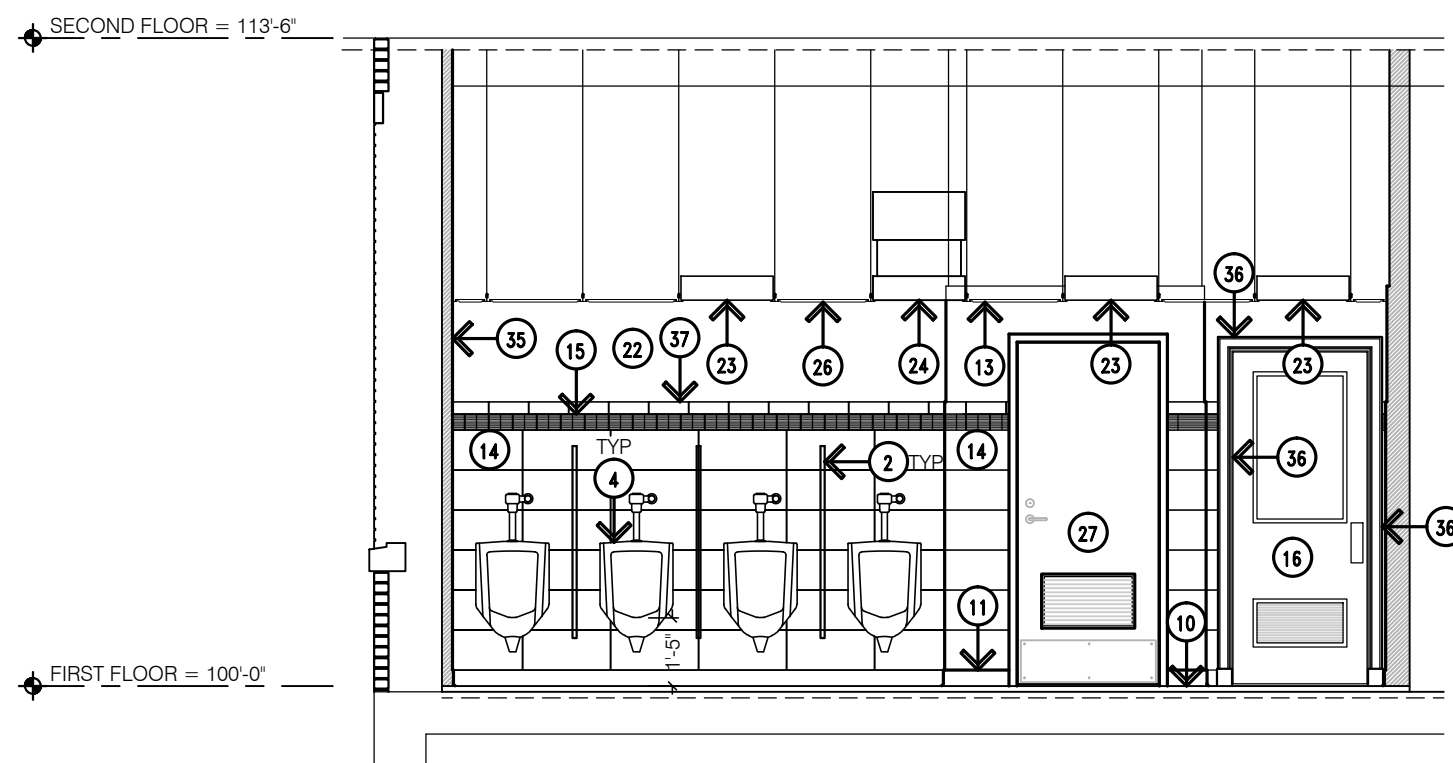
4 Girls North Elevation
1/4"=1'-0"

3 Boys North Elevation
1/4"=1'-0"

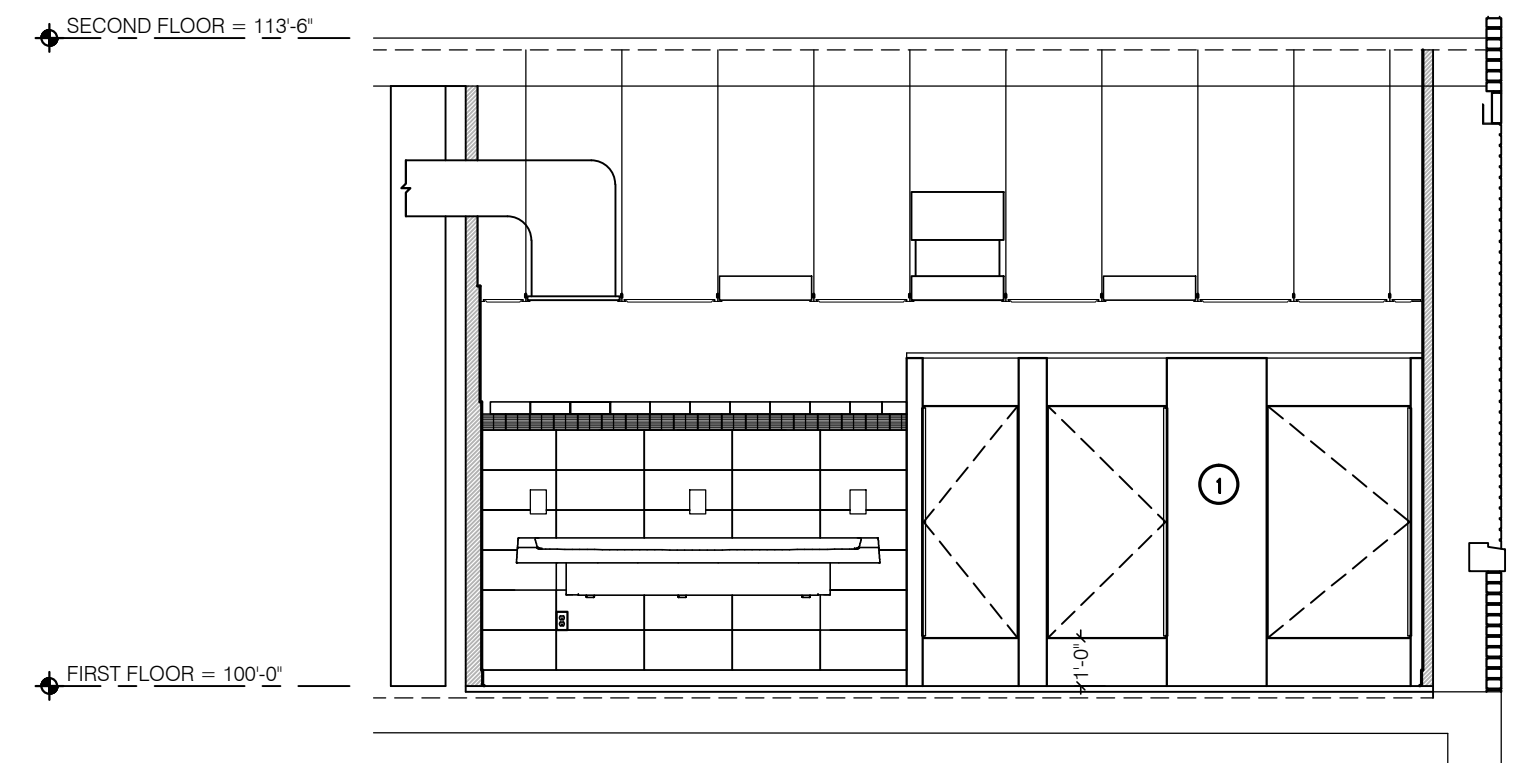


2 Boys South Elevation
1/4"=1'-0"

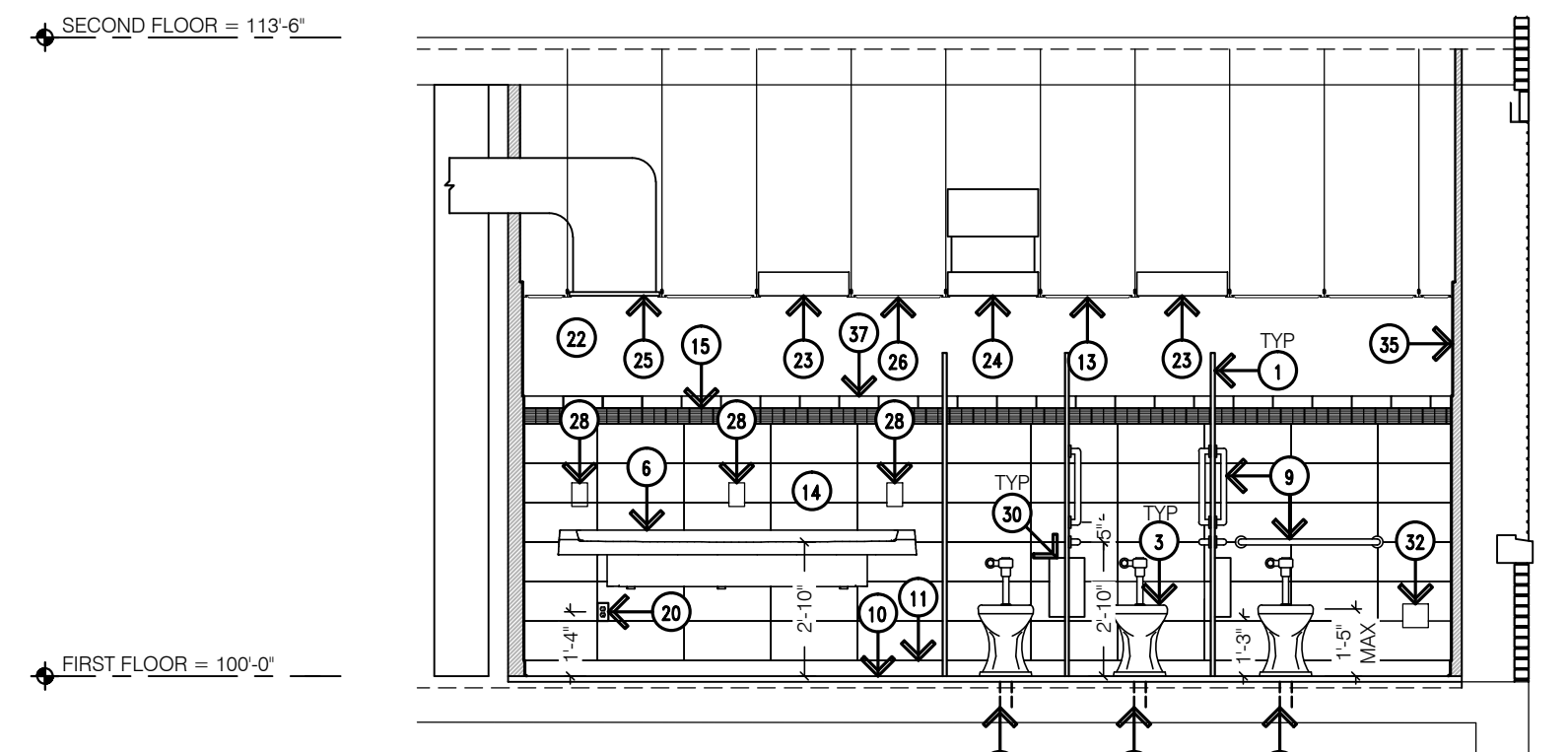
1 Girls South Elevation
1/4"=1'-0"



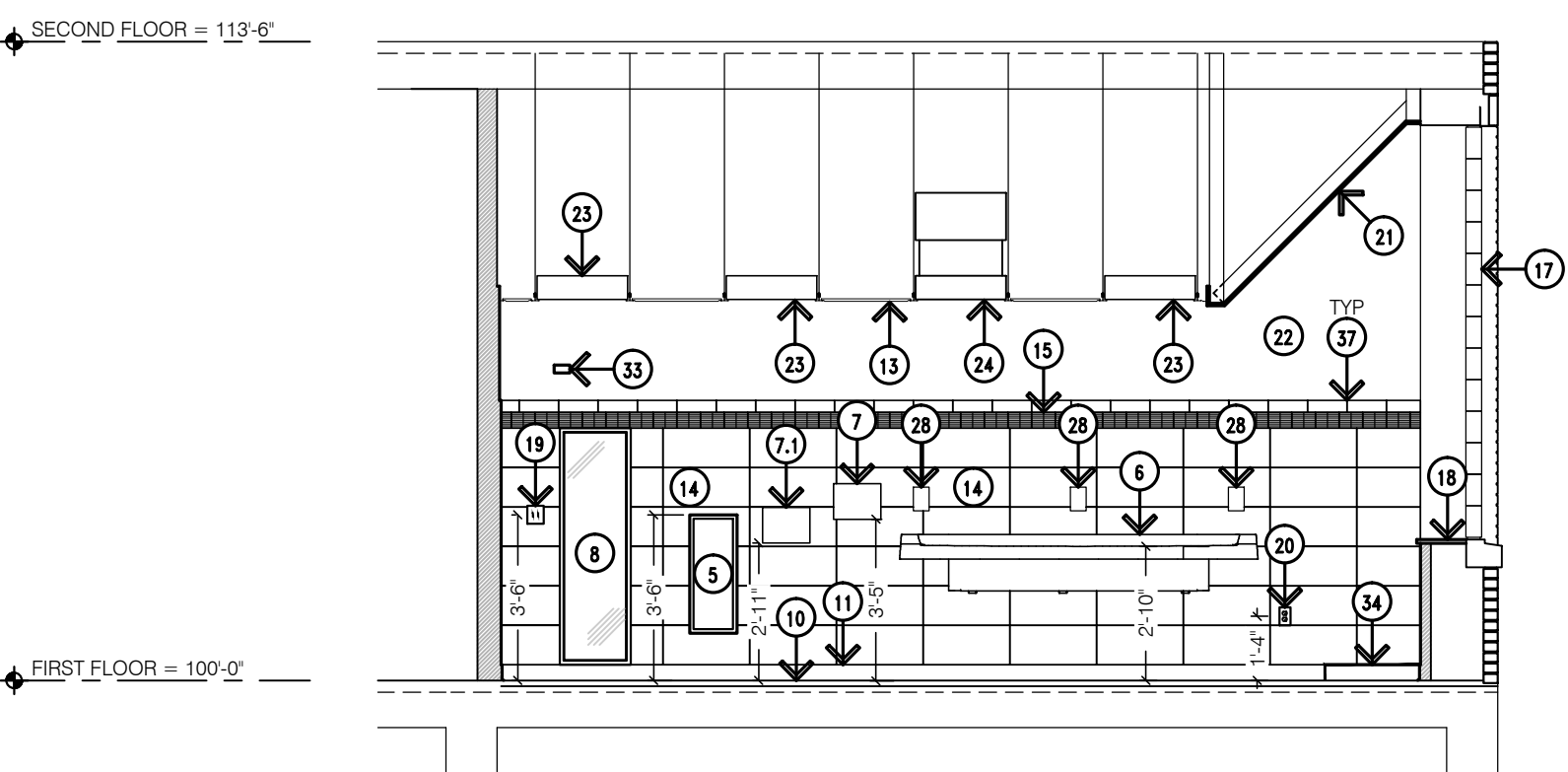
8 Boys East Elevation
1/4"=1'-0"



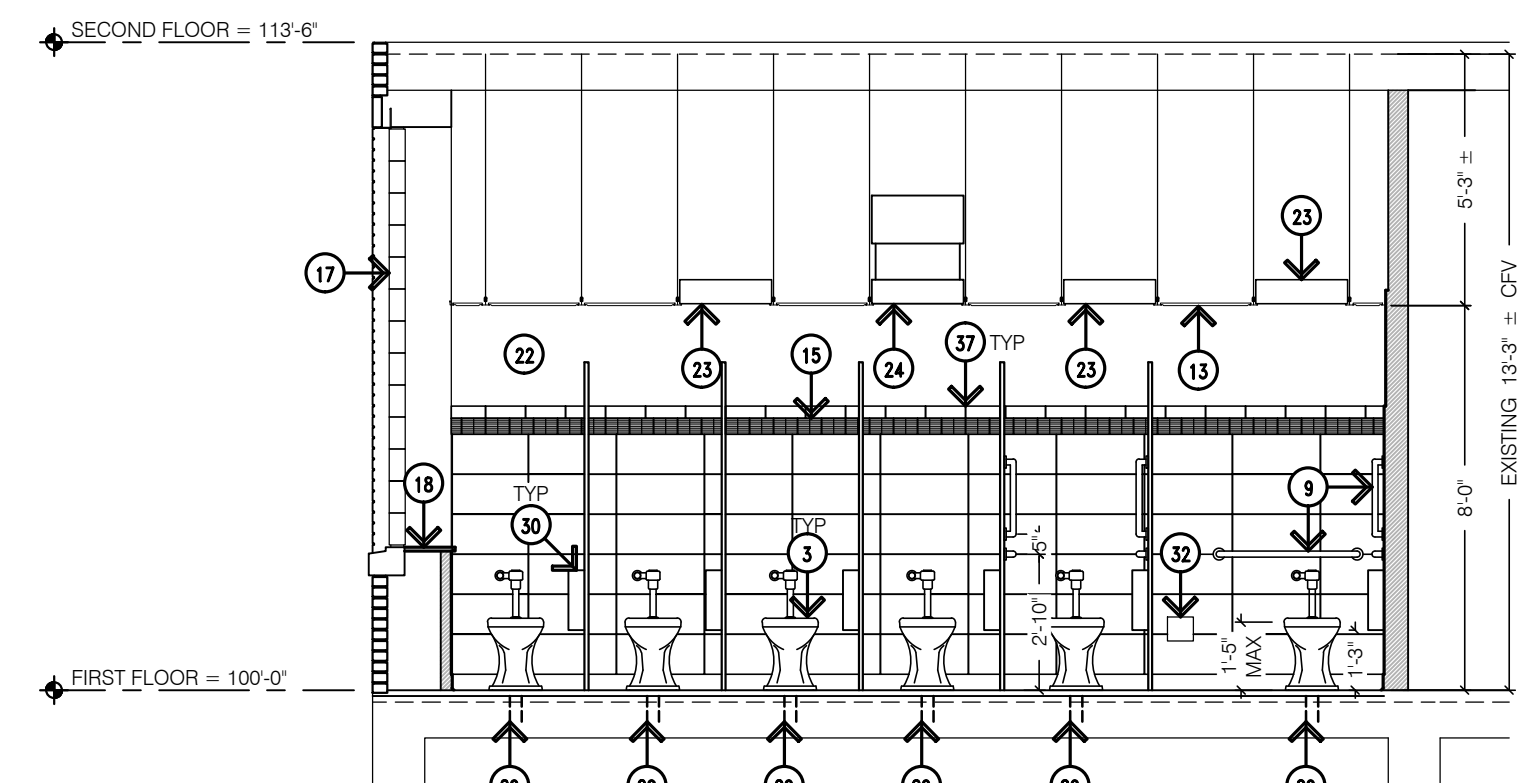
7 Boys West Elevation
1/4"=1'-0"



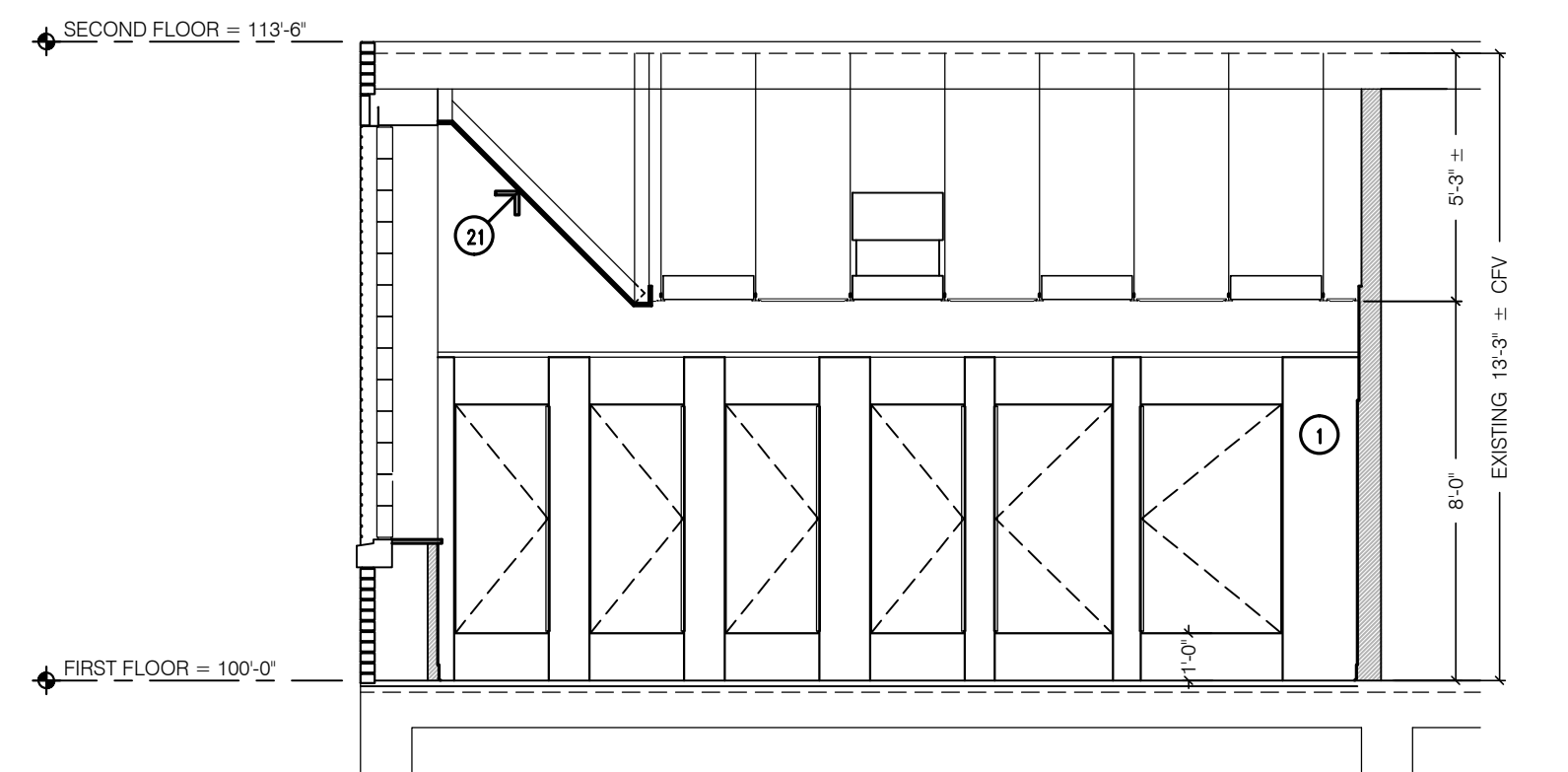
6 Boys West Elevation (INSIDE STALLS)
1/4"=1'-0"



11 Girls West Elevation
1/4"=1'-0"



10 Girls East Elevation
1/4"=1'-0"



9 Girls East Elevation
1/4"=1'-0"

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Interior Elevations

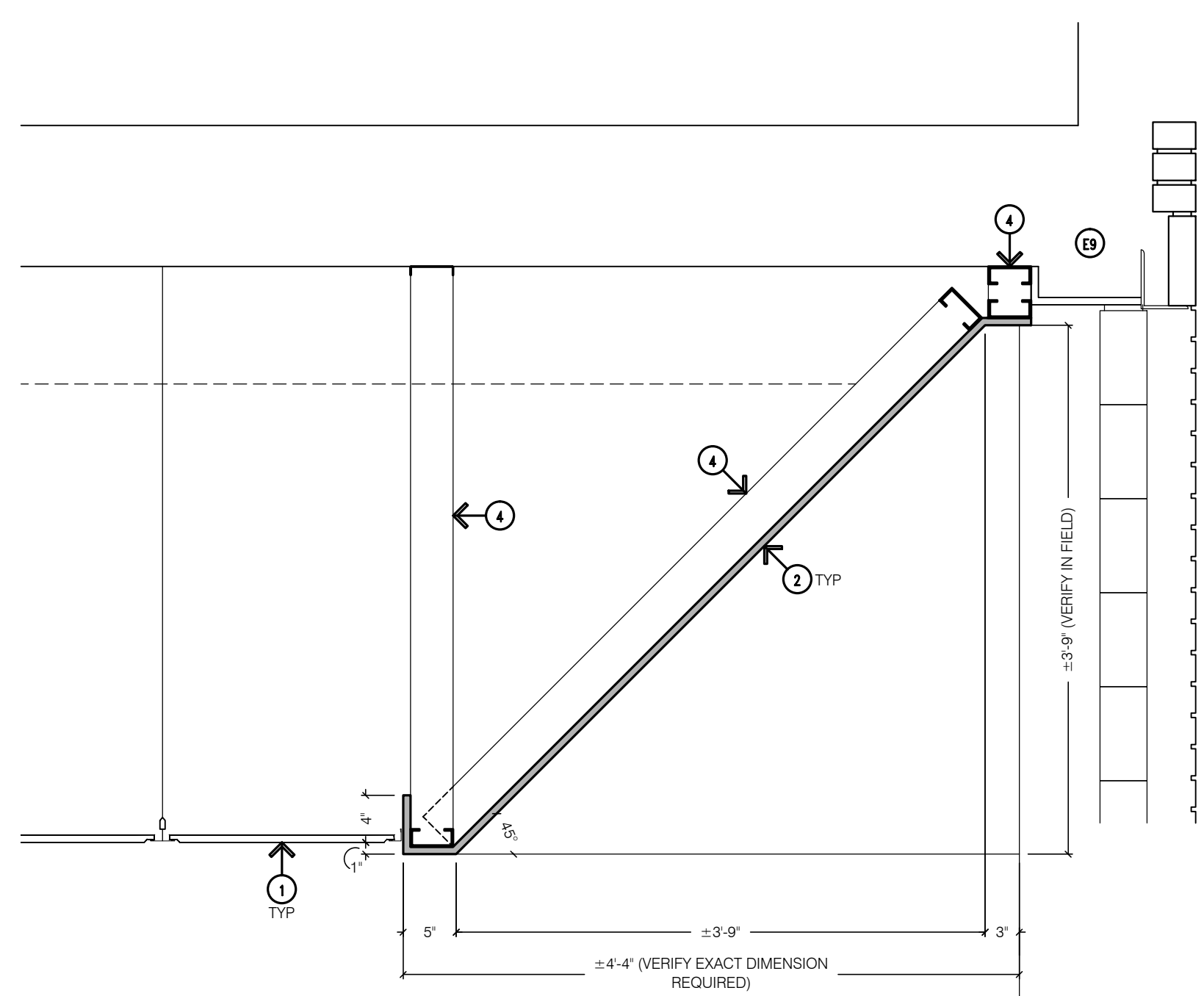
Scale: 1/4"=1'-0"

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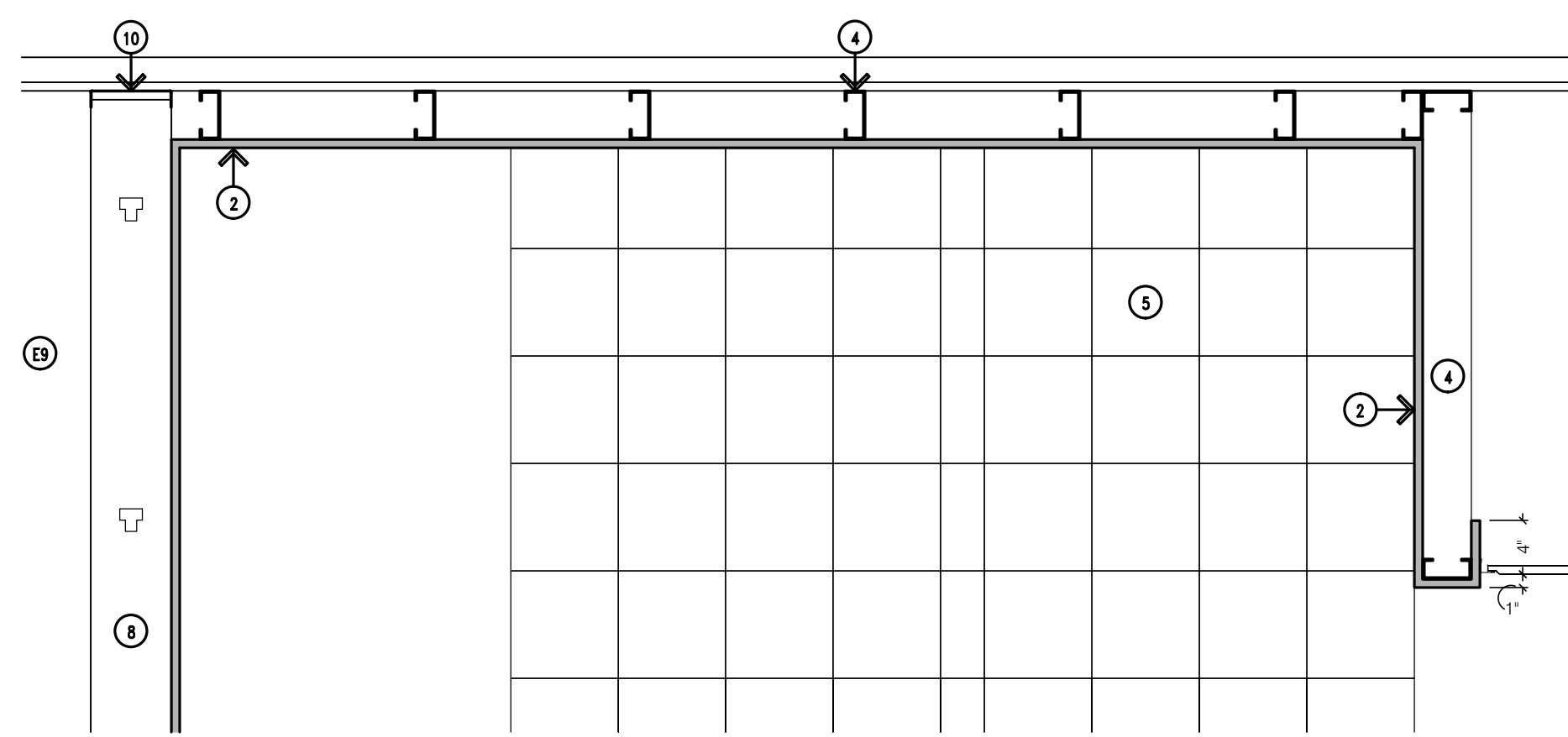
Grosse Pointe Public School System
Mason Elementary School
Restroom Remodeling - Phase Two

Project No. 9013

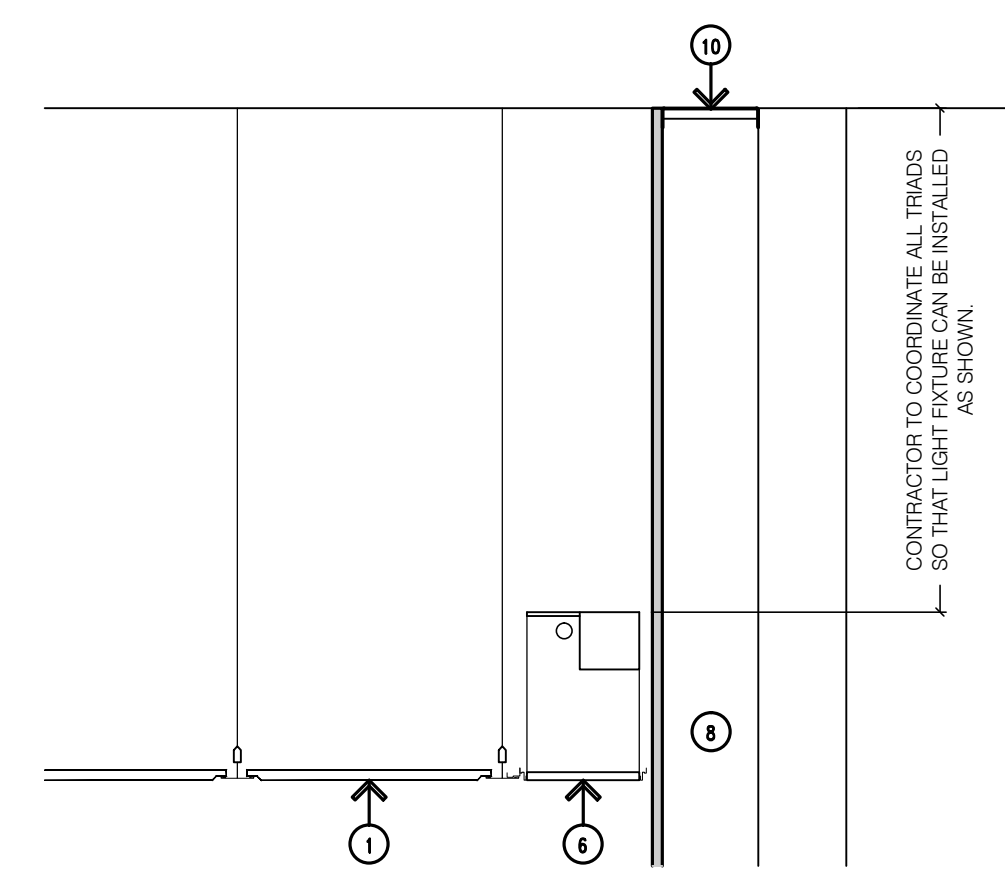
A50



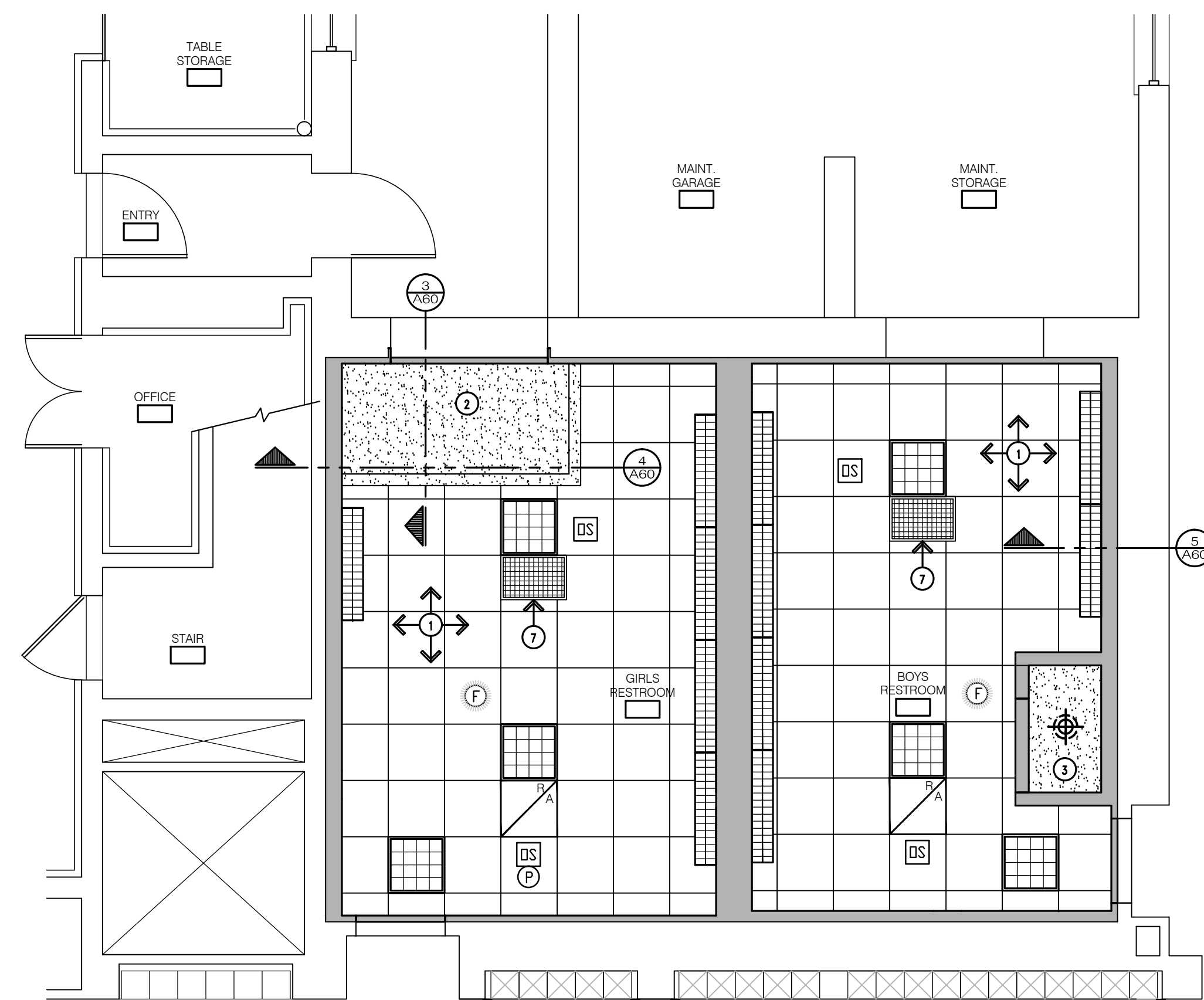
3 Window Soffit Section
A60 Scale: 1"=1'-0"



4 Window Soffit Section
A60 Scale: 1"=1'-0"



5 Perimeter Light Fixture Section
A60 Scale: 1"=1'-0"



1 First Floor Reflected Ceiling Plan
A60 1/4"=1'-0"

GENERAL NOTES:

- G1. COORDINATE ALL WORK (ARCHITECTURAL WORK, ELECTRICAL WORK, MECHANICAL WORK, PLUMBING WORK, ETC.)
- G2. EXISTING WIRING HOMERUN LOCATIONS ARE UNKNOWN AND ARE TO BE FIELD VERIFIED.
- G3. THE INTENT IS USE FULL TILES WITHOUT ANY CUTS. ADJUST THE SPACING OF TILE ACCORDINGLY +/- 6" TO FIT.
- G4. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
- G5. CONTRACTOR RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS FOR ACCESS TO CONDUIT INSTALLATION ETC.
- G6. THE RESTROOM WALLS AND CEILINGS MUST BE PATCHED/REPAIRED BACK TO A SUITABLE 1-HOUR RATING WHEN CONSTRUCTION IS COMPLETE.

DRAWING NOTES:

1. 2x2' ACOUSTIC CEILING TILE, GRID AND SUPPORTS/TIES - REFER TO SPECIFICATION FOR MORE INFORMATION.
2. 5/8" GYPSUM BOARD WINDOW SOFFIT - REFER TO DETAILS FOR FURTHER INFORMATION.
3. 5/8" GYPSUM BOARD CEILING ON 6" METAL STUD FRAMING @ 12" O.C.
4. 3-5/8" METAL STUD FRAMING @ 12" O.C. - SECURE TO EXISTING STRUCTURE ABOVE.
5. EXISTING GLASS BLOCK WINDOW TO REMAIN.
6. LIGHT FIXTURE - REFER TO ELECTRICAL FOR FURTHER INFORMATION.
7. UNIT HEATER, DUCTWORK & GRILL - REFER TO MECHANICAL FOR FURTHER INFORMATION.
8. METAL STUD FRAMING - SECURE TO EXISTING WALL STRUCTURE.
9. EXISTING WALL STRUCTURE TO REMAIN.
10. METAL SLIP-TRACK (SLP-TRK) SYSTEM--PROVIDE MINIMUM 1" GAP FOR EXISTING ROOF DEFLECTION.

LEGEND:

- 2x2' RECESSED LIGHT FIXTURE - REFER TO ELECTRICAL FOR FURTHER INFORMATION.
- RECESSED LINEAR LIGHT FIXTURE - REFER TO ELECTRICAL FOR FURTHER INFORMATION.
- DUAL TECHNOLOGY OCCUPANCY SENSORS. VERIFY QUANTITY AND LOCATION WITH MANUFACTURER. LAYOUT SHOWN FOR GENERAL INFORMATION ONLY. REFER TO ELECTRICAL DRAWINGS.
- DUAL TECHNOLOGY OCCUPANCY SENSORS WITH PHOTOCELL. VERIFY QUANTITY AND LOCATION WITH MANUFACTURER. LAYOUT SHOWN FOR GENERAL INFORMATION ONLY. REFER TO ELECTRICAL DRAWINGS.
- 2x2' DIFFUSER - REFER TO MECHANICAL FOR FURTHER INFORMATION.
- RECESSED CAN LIGHT - REFER TO ELECTRICAL FOR FURTHER INFORMATION.
- CEILING MOUNTED FIRE ALARM DEVICE.

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Reflected Ceiling Plan

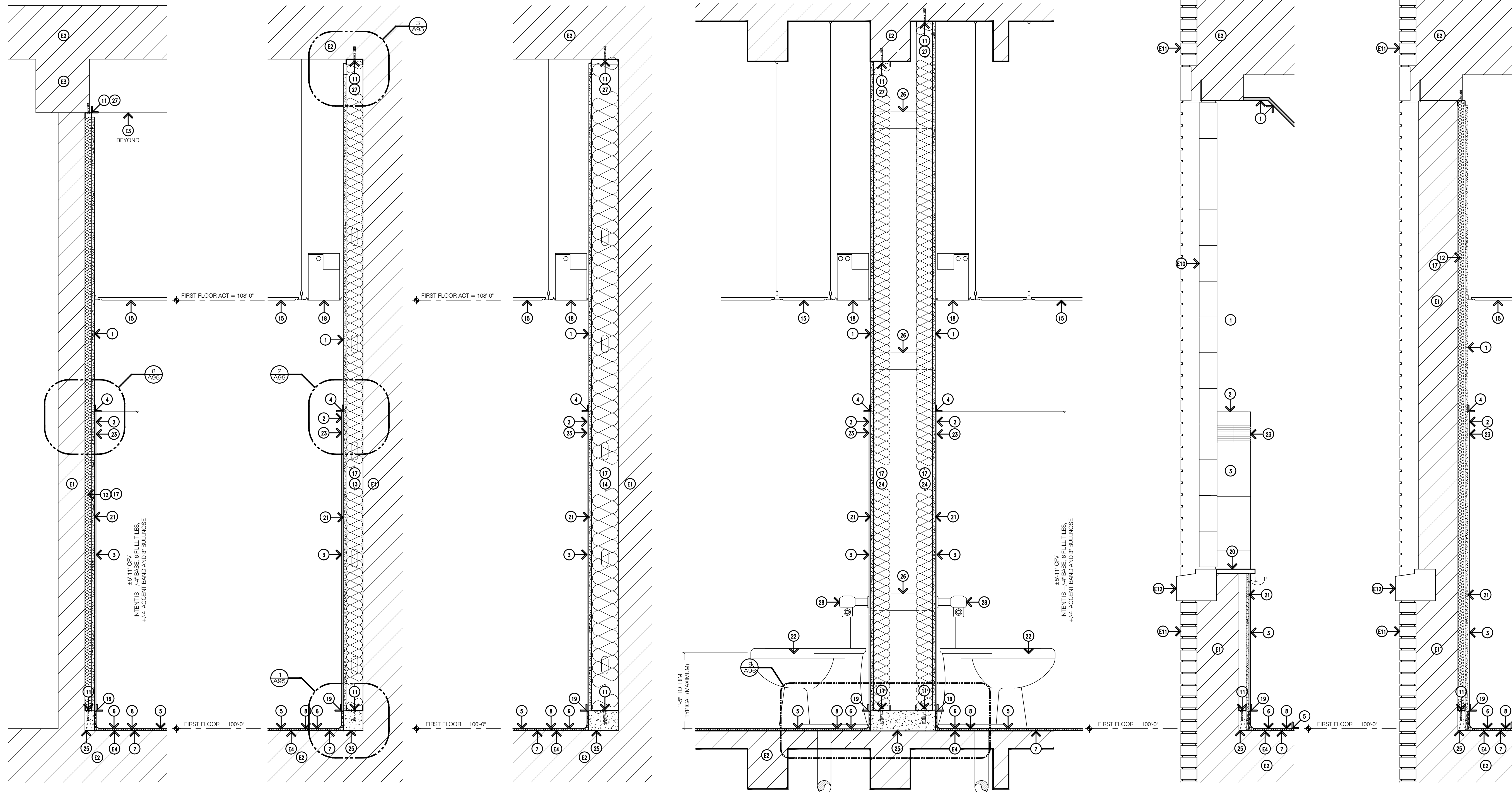
Scale as Noted

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A60



1 Interior Wall Section - IW1
Scale: 1"=1'-0"
BASED ON TCA W244C

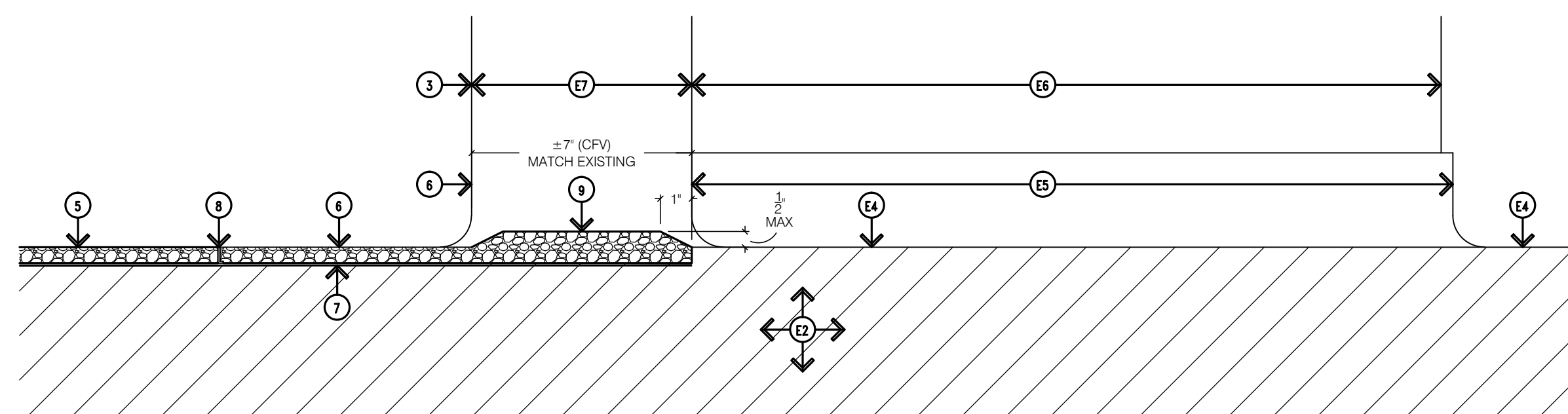
2 Interior Wall Section - IW2
Scale: 1"=1'-0"
BASED ON TCA W244C

3 Interior Wall Section - IW3
Scale: 1"=1'-0"
BASED ON TCA W244C

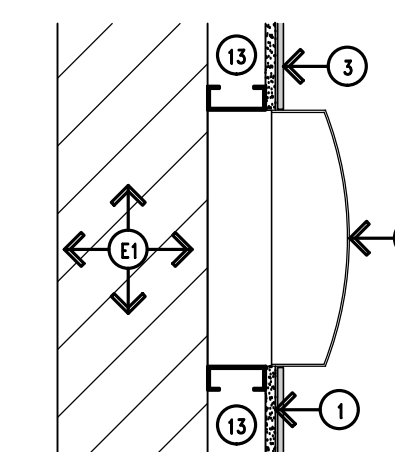
4 Interior Wall Section - IW4
Scale: 1"=1'-0"
BASED ON TCA W244C

5 Interior Wall Section - IW1
Scale: 1"=1'-0"
BASED ON TCA W244C

6 Interior Wall Section - IW1
Scale: 1"=1'-0"
BASED ON TCA W244C



6 Marble Threshold Detail
Scale: 3"=1'-0"



5 Enlarged Trash Receptacle Plan
Scale: 1"=1'-0"

GENERAL NOTES:

- G1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
- G2. INTERIOR WALLS ARE TO EXTEND TIGHT TO UNDERSIDE OF EXISTING STRUCTURE ABOVE TO MAINTAIN 1-HOUR RATING.

EXISTING ITEMS TO REMAIN: (CONTRACTOR TO FIELD VERIFY)

- E1. WALL - ECU
- E2. CONCRETE FLOOR STRUCTURE - ECU
- E3. CONCRETE BEAM - ECU
- E4. FLOORING - ECU
- E5. TERRAZZO BASE - ECU
- E6. MARBLE WALL PANEL - ECU
- E7. DOOR FRAME - ECU
- E8. FRAMING - ECU
- E9. DUCT SHAFT - ECU, CFV
- E10. GLASS BLOCK WINDOW - ECU
- E11. BRICK - ECU
- E12. STONE SILL - ECU

DRAWING NOTES:

- 1. 5/8" GYPSUM BOARD (TAPED AND FINISHED THREE (3) COATS), PROVIDE MOISTURE AND MOLD RESISTANT
- 2. CERAMIC WALL TILE TRIM PIECE
- 3. CERAMIC WALL TILE
- 4. SEALANT. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
- 5. EPOXY TERRAZZO FLOOR (FIELD COLOR). REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
- 6. EPOXY TERRAZZO COVE BASE (ACCENT COLOR). REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
- 7. CRACK ISOLATION MEMBRANE OVER THE ENTIRE FLOOR
- 8. BRASS DIVIDER STRIP
- 9. TERRAZZO THRESHOLD. TO MATCH ACCENT/BASE COLOR. THRESHOLD TO MEET ALL APPLICABLE BARRIER FREE CODES
- 10. MORTAR
- 11. METAL STUD RUNNER TRACK (SLIP-TRACK AT TOP OF WALL) SECURELY ATTACHED TO EXISTING CONCRETE ROOF AND FLOOR CONSTRUCTION
- 12. 1-5/8" METAL STUD @ 16" O.C. ANCHOR SECURELY TO EXISTING WALL STRUCTURE
- 13. 3-5/8" METAL STUD FRAMING @ 16" O.C. ANCHOR SECURELY TO EXISTING WALL/CEILING STRUCTURE
- 14. 6" METAL STUD FRAMING @ 16" O.C. ANCHOR SECURELY TO EXISTING WALL/CEILING STRUCTURE
- 15. ACOUSTICAL CEILING TILE AND GRID - SECURE TO FLOOR STRUCTURE ABOVE
- 16. SEMI-RECESSED TRASH RECEPTACLE
- 17. SOUND INSULATION
- 18. RECESSED LIGHT FIXTURE - REFER TO ELECTRICAL FOR FURTHER INFORMATION
- 19. METAL BASE BEAD
- 20. MARBLE WINDOW SILL
- 21. 5/8" CEMENT BACKER BOARD. SECURE TO EXISTING WALL STRUCTURE
- 22. FLOOR MOUNTED WATER CLOSET - REFER TO MECHANICAL FOR FURTHER INFORMATION
- 23. ACCENT TILE
- 24. METAL STUD FRAMING @ 16" O.C. ANCHOR SECURELY TO EXISTING WALL/CEILING STRUCTURE. REFER TO FLOOR PLAN FOR WALL TAG DESIGNATIONS
- 25. CONCRETE CURB, AS REQUIRED FOR TERRAZZO BASE. COORDINATE WITH TERRAZZO INSTALLER
- 26. METAL FRAMING BRACE
- 27. SLIP TRACK AT TOP OF WALL TO ALLOW FOR 1-1/2" DEFLECTION
- 28. AUTOMATIC FLUSH VALVE - REFER TO MECHANICAL DRAWINGS

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Interior Wall Sections

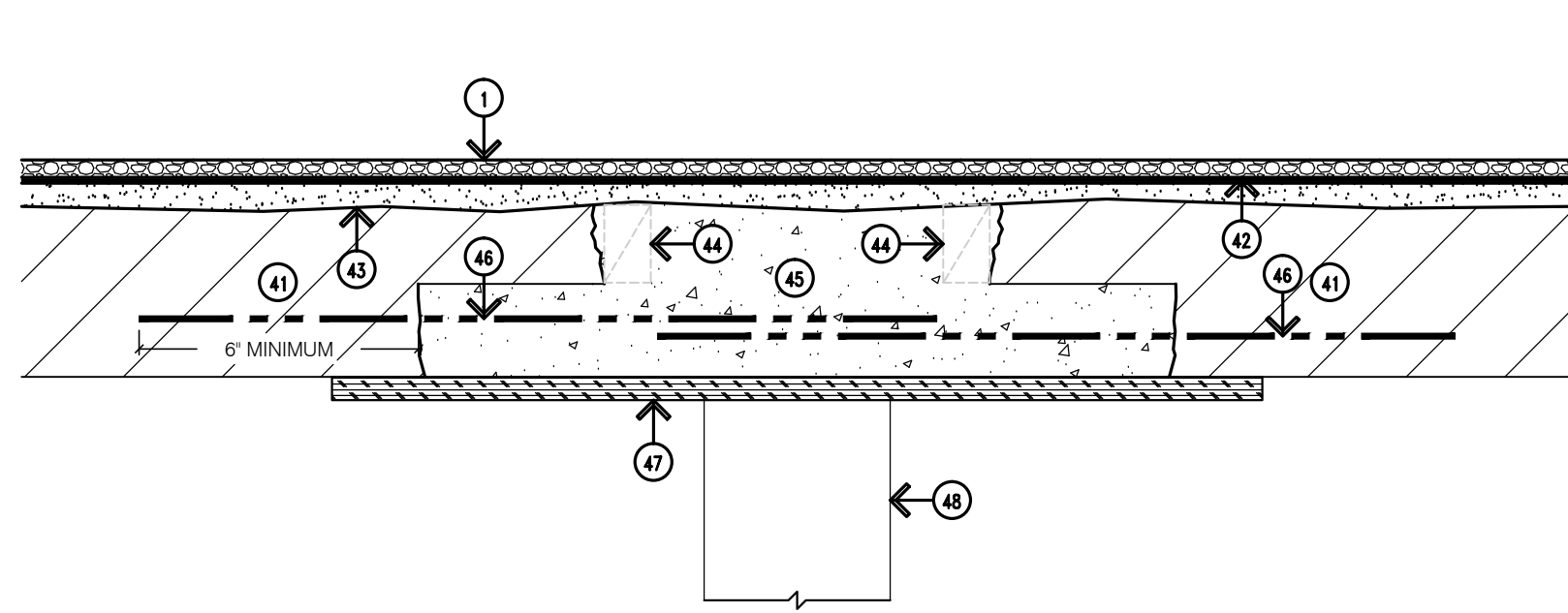
Scale: 1"=1'-0"

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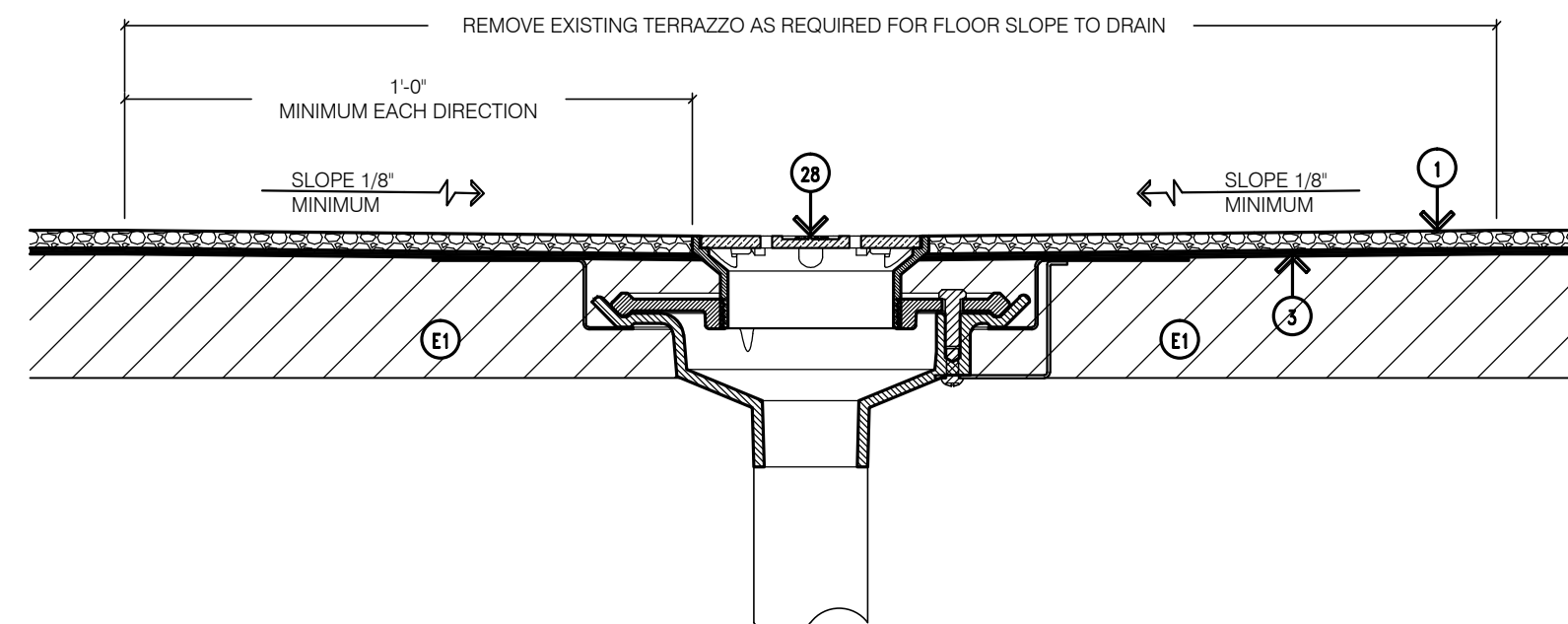
Grosse Pointe Public School System
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Project No. 9013

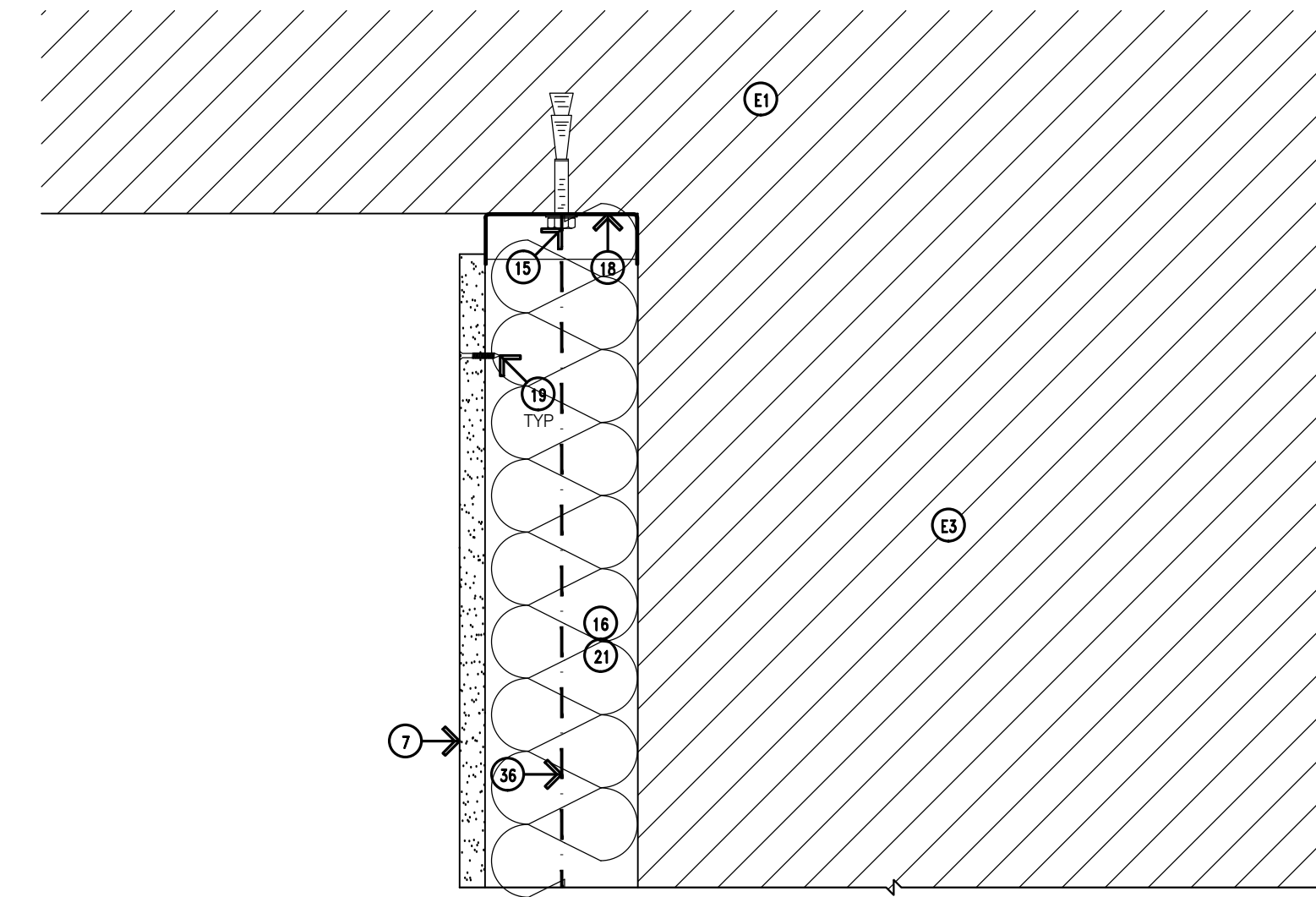
A90



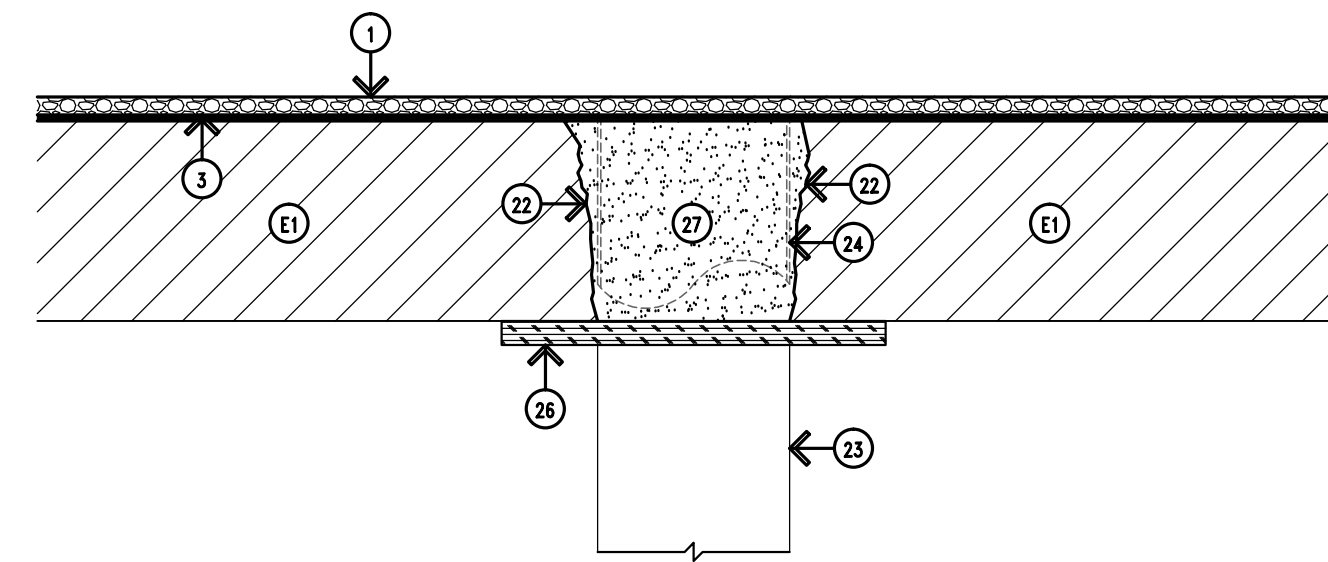
12 Infill of Existing Slab @ Rectangular Openings
Scale: 3"=1'-0"



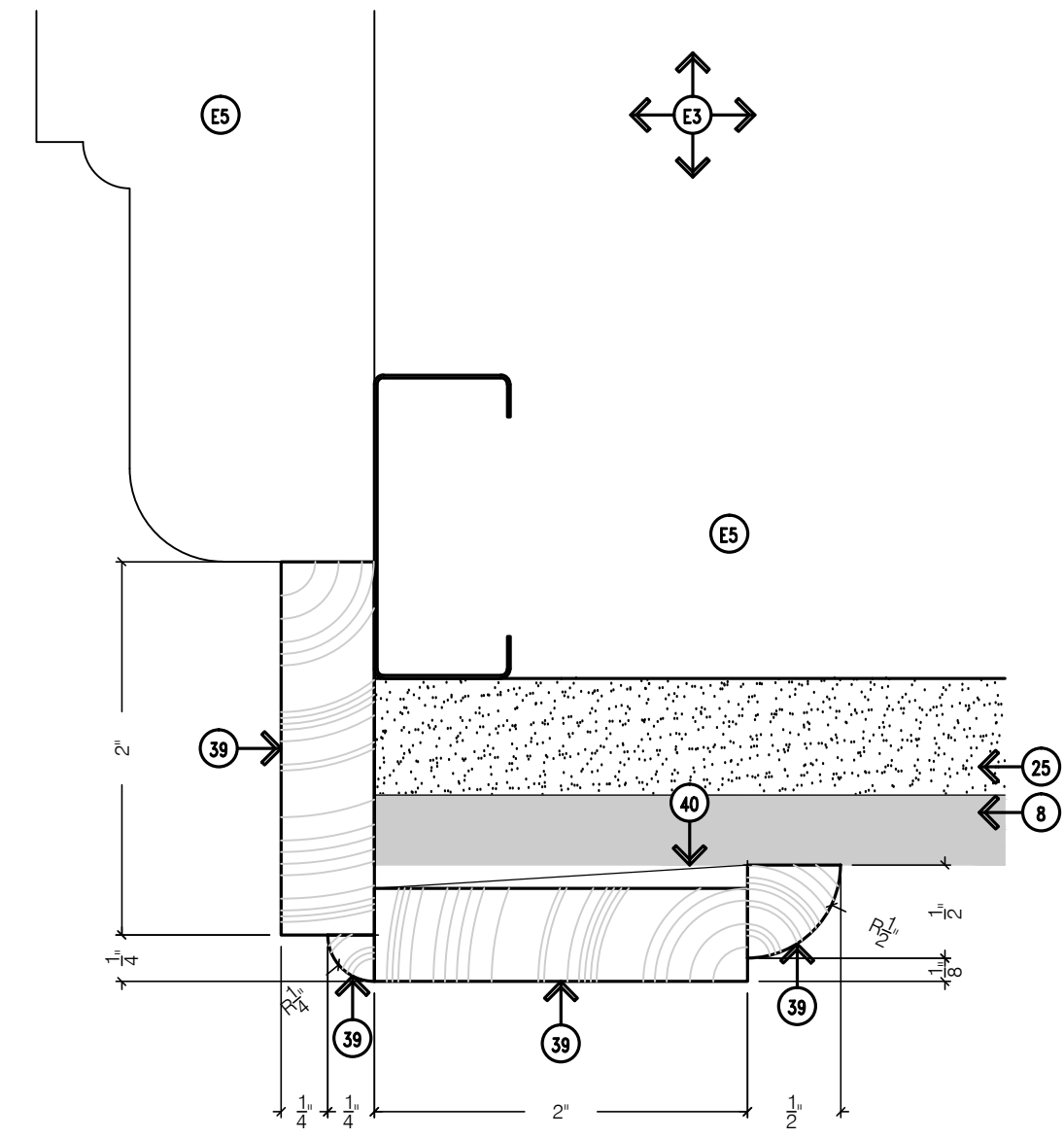
4 Enlarged Floor Drain
Scale: 3"=1'-0"



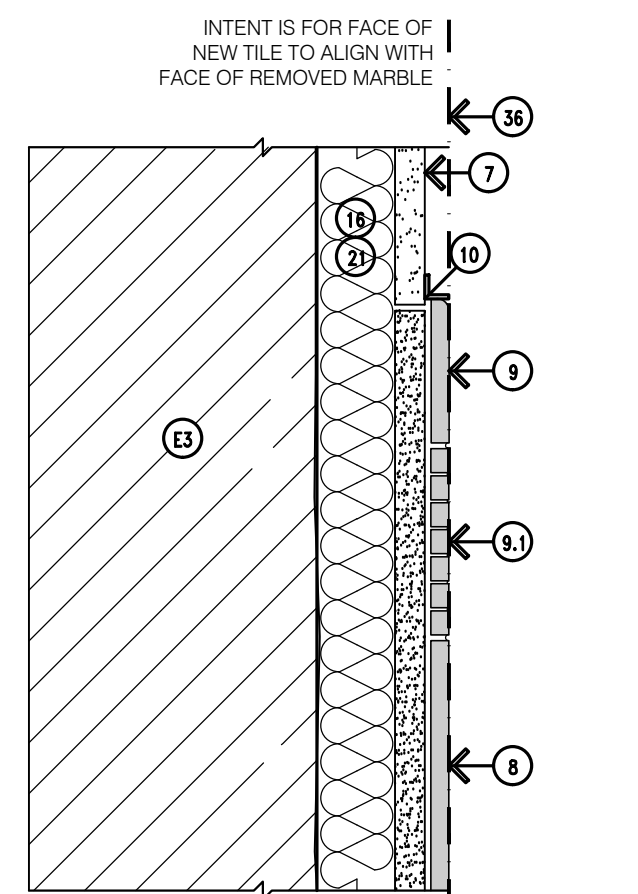
3 Slip Track Head Detail
Scale: 3"=1'-0"
NOTE: PROVIDE 1-HOUR RATED CONSTRUCTION



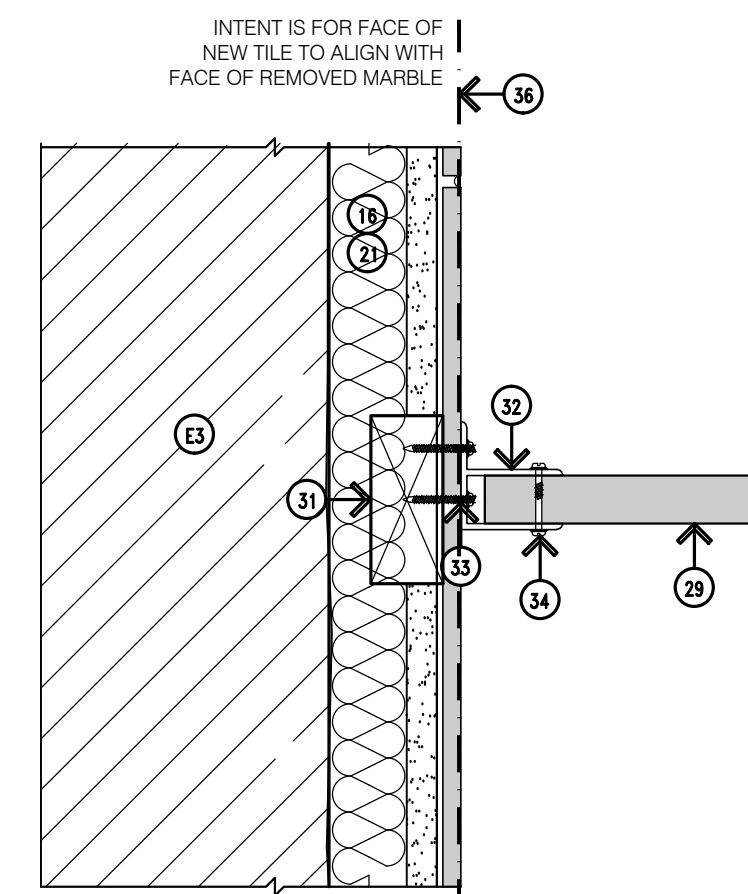
5 Detail @ Removed Piping
Scale: 3"=1'-0"



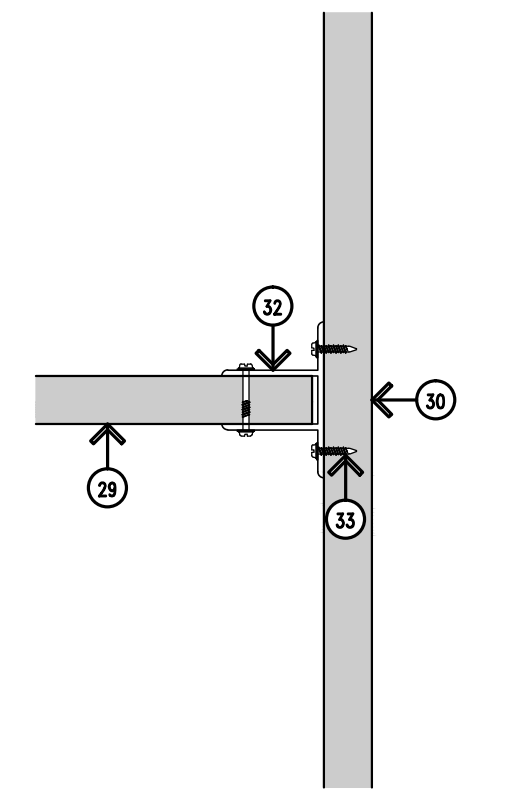
11 Enlarged Wood Door Trim
Full Scale



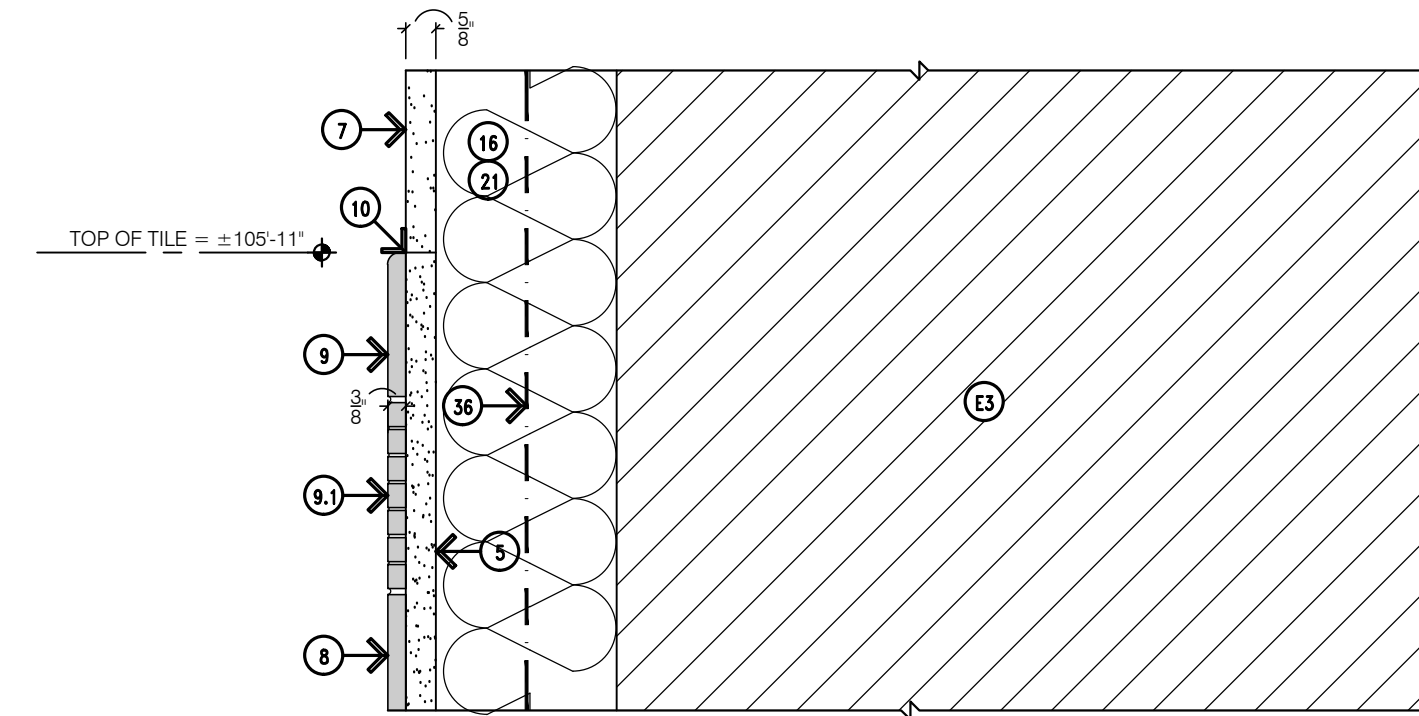
8 Ceramic Tile @ Existing Wall (W1)
Scale: 3"=1'-0" PER TCA W244C



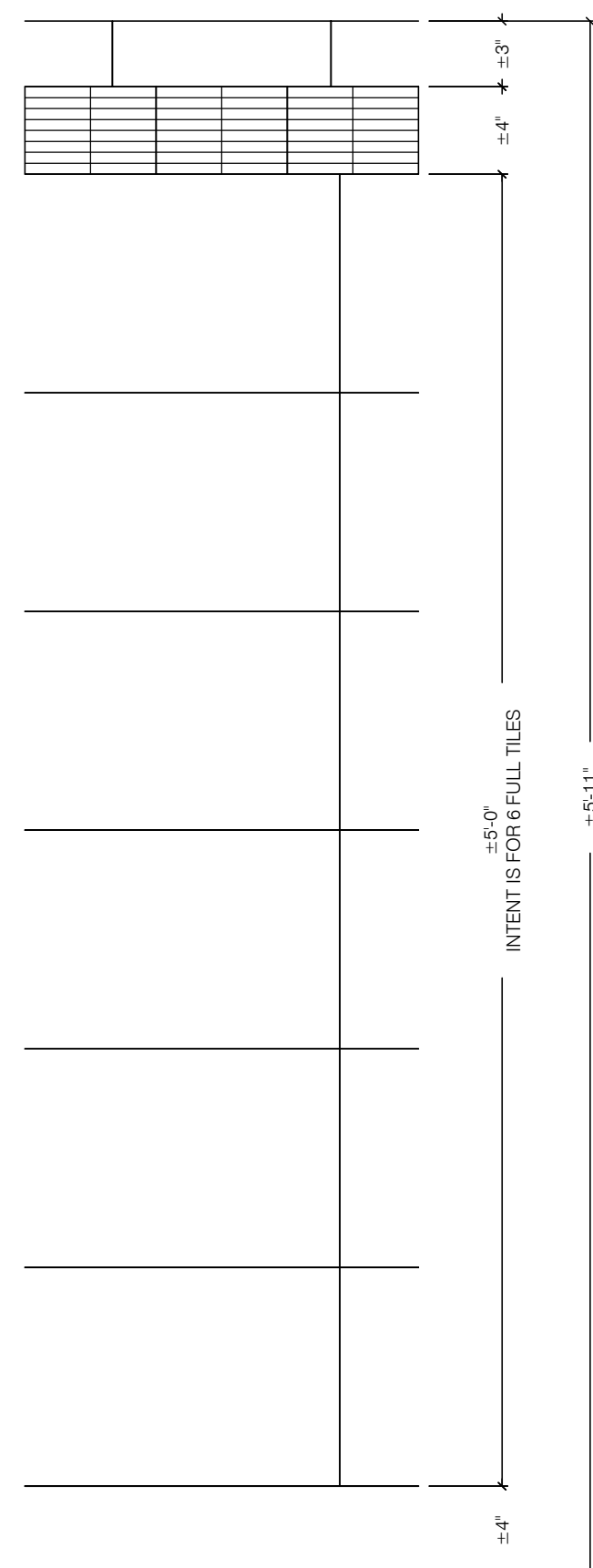
7 Toilet Partition @ Existing Wall
Scale: 3"=1'-0" PER TCA W244C



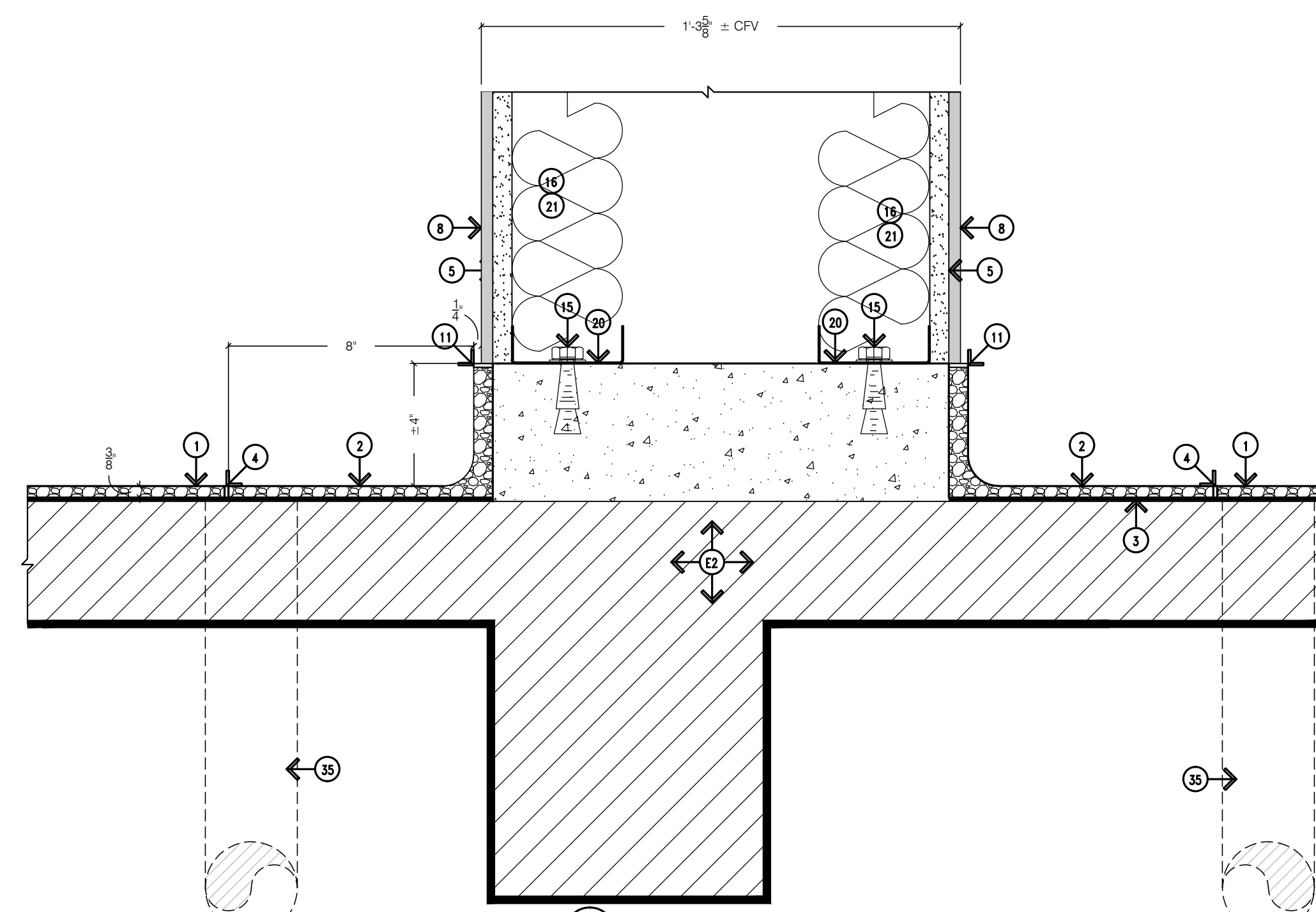
6 Toilet Partition @ Stile
Scale: 3"=1'-0"



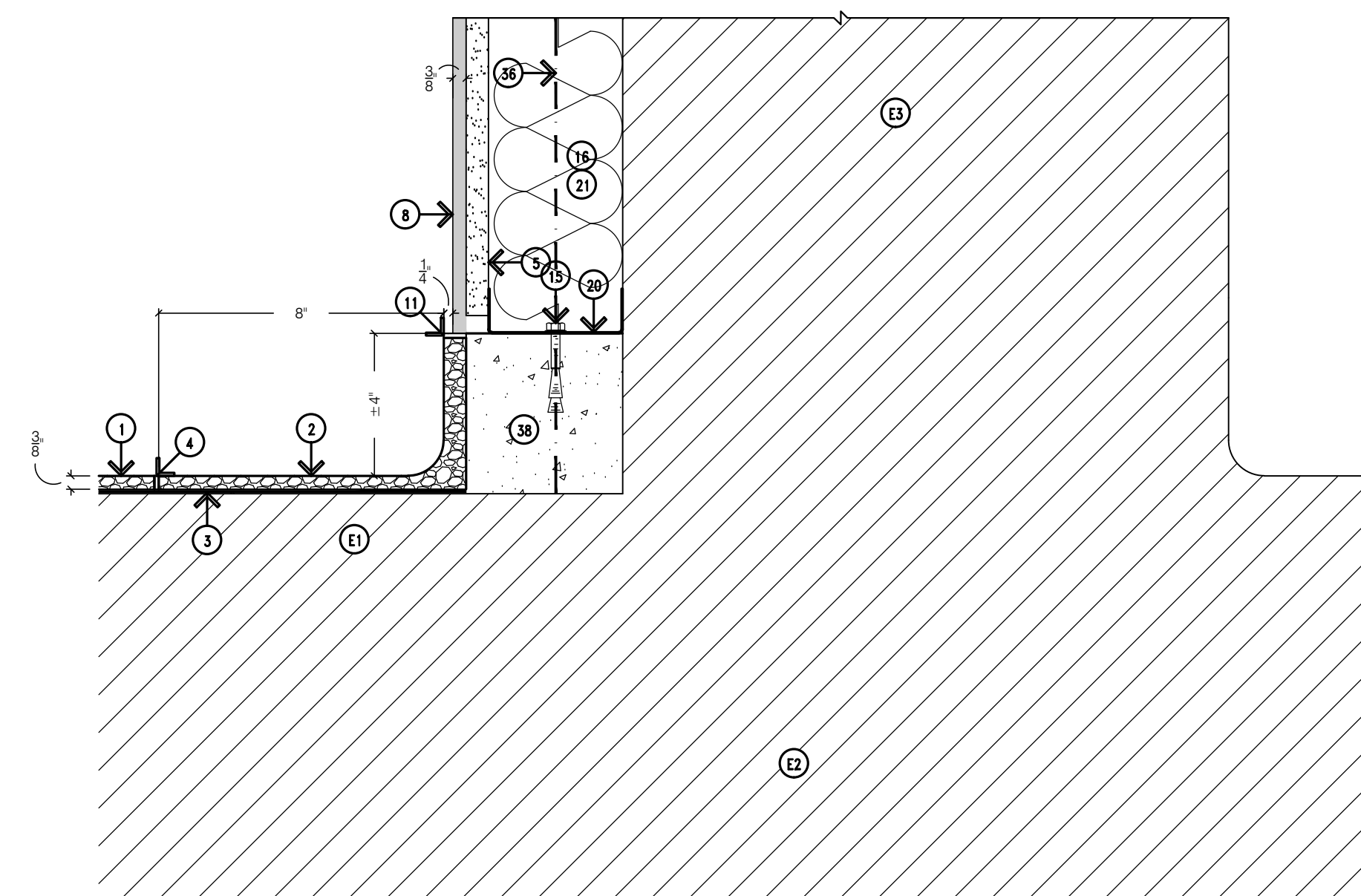
2 Enlarged Trim Piece Detail
Scale: 3"=1'-0" PER TCA W244C



10 Enlarged Tile Layout
Scale: 1-1/2"=1'-0"



9 Enlarged Terrazzo Base
Scale: 3"=1'-0" PER TCA W244C



1 Enlarged Terrazzo Base
Scale: 3"=1'-0" PER TCA W244C

GENERAL NOTES:

G1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.

EXISTING ITEMS TO REMAIN:

- E1. CONCRETE FLOOR/ROOF STRUCTURE - ECU
- E2. CONCRETE FLOOR JOIST - ECU
- E3. CONCRETE WALL STRUCTURE - ECU
- E4. PARKING - ECU
- E5. WOOD DOOR FRAME - ECU

DRAWING NOTES:

- 1. EPOXY TERRAZZO FLOOR (FIELD COLOR). REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 2. EPOXY TERRAZZO COVE BASE (ACCENT COLOR). REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 3. ISOLATION MEMBRANE ON EXISTING FLOOR STRUCTURE
- 4. BRASS DIVIDER STRIP - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
- 5. CEMENTITIOUS BACKER UNIT
- 6. 3"x8" LATERAL BRACING @ 48" O.C.
- 7. MOISTURE AND MOLD RESISTANT GYPSUM BOARD - PAINTED
- 8. CERAMIC WALL TILE - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
- 9. CERAMIC WALL TILE TRIM PIECE - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 9.1. ACCENT TILE - REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 10. SEALANT. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 11. METAL BASE BEAD
- 12. EXPANDABLE FLOOR DRAIN PLUG
- 13. PIPING TO BE REMOVED
- 14. CONCRETE INFILL
- 15. 3/8" DIAMETER EXPANSION ANCHOR INTO EXISTING BUILDING STRUCTURE @ 24" O.C.
- 16. METAL STUD WALL FRAMING @ 16" O.C. MAXIMUM.
- 17. 5/8" x 4" GYPSUM BOARD.
- 18. METAL SLIP-TRACK (SLP-TRK) SYSTEM--PROVIDE MINIMUM 1" GAP FOR EXISTING ROOF DEFLECTION.
- 19. #8 WAFERHEAD SCREW--TYPICAL.
- 20. METAL STUD RUNNER TRACK SECURELY ATTACHED TO THE EXISTING CONCRETE FLOOR.
- 21. SOUND INSULATION
- 22. TAPER AND ROUGHEN EXISTING EDGES OF EXISTING HOLE AROUND PERIMETER
- 23. TEMPORARY POST - SHORE AS REQUIRED
- 24. PIPING TO BE REMOVED
- 25. 5/8" CEMENT BOARD
- 26. TEMPORARY SHORING WITH FORM RELEASE AGENT OR PERMANENT METAL SHORING
- 27. INFILL WITH SIKA GROUT 212 CEMENTITIOUS GROUT. CLEAN SURFACE & PROVIDE SIKA ARMATEC 110 BONDING AGENT TO EXISTING CONSTRUCTION PER MANUFACTURERS INSTRUCTIONS PRIOR TO GROUT INSTALLATION.
- 28. FLOOR DRAIN - REFER TO MECHANICAL FOR FURTHER INFORMATION.
- 29. FLOOR MOUNTED, WALL BRACED TOILET PARTITION. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 30. FLOOR MOUNTED STILE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 31. NON-COM WOOD BLOCKING
- 32. CONTINUOUS METAL BRACKET. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.
- 33. SCREW
- 34. TORX HEAD HEXBOLT
- 35. WATER CLOSET WASTE PIPING. FIELD VERIFY EXACT LOCATION AND MISS CONCRETE STRUCTURAL BEAM. REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
- 36. APPROXIMATE LINE OF (REMOVED) MARBLE WALL PANEL
- 37. METAL LATH
- 38. CONCRETE CURB
- 39. WOOD TRIM PIECE. STAIN TO MATCH EXISTING DOOR AND FRAME
- 40. WOOD SHIM
- 41. EXISTING CONCRETE FLOOR JOIST STRUCTURE TO REMAIN - ECU
- 42. CRACK ISOLATION MEMBRANE OVER THE ENTIRE FLOOR.
- 43. REPAIR MORTAR OVERLAY ON EXISTING FLOOR STRUCTURE - MINIMUM 1/2"
- 44. EXISTING WOOD SCREED & INFILL TO BE REMOVED AND THE EXISTING EDGES TO BE TAPERED AND ROUGHENED ALL 4 SIDES.
- 45. INFILL WITH SIKA GROUT 212 CEMENTITIOUS GROUT. ADD 25 LBS OF 3/8" GRAVEL PER BAG PER MANUFACTURERS INSTRUCTIONS. CLEAN SURFACES & PROVIDE SIKA ARMATEC 110 BONDING AGENT TO EXISTING CONSTRUCTION PER MANUFACTURERS INSTRUCTIONS PRIOR TO GROUT INSTALLATION.
- 46. DRILL & GROUT #3 BARS AT 6" ON CENTER, MINIMUM 6" INTO EXISTING. SHORT DIRECTION OF OPENING AND LAP MINIMUM 4" ON CENTER.
- 47. TEMPORARY SHORING WITH FORM RELEASE AGENT OR PERMANENT METAL SHORING
- 48. TEMPORARY POST - SHORE AS REQUIRED

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Interior Details

Scale: 3"=1'-0"

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Project No. 9013

A95

MECHANICAL ABBREVIATION LIST

Table with columns for ABBREVIATION and DESCRIPTION, listing various mechanical components like compressed air, fire hydrant, and piping symbols.

MECHANICAL SYMBOL LIST

Table with columns for SYMBOL and DESCRIPTION, detailing piping symbols (e.g., air vent, backflow preventer) and ductwork symbols (e.g., air terminal unit, diffuser).

MECHANICAL DRAWING INDEX

Table with columns for SHEET NO. and SHEET TITLE, listing sheets M01, M11, M61, and M81.

STANDARD METHODS OF NOTATION

Diagrammatic notation standards including supply diffusers, return registers, elbows, diffusers, and various pipe and duct symbols with their corresponding notations.

NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

TEMPERATURE CONTROL - PARTIAL SYMBOLS LIST

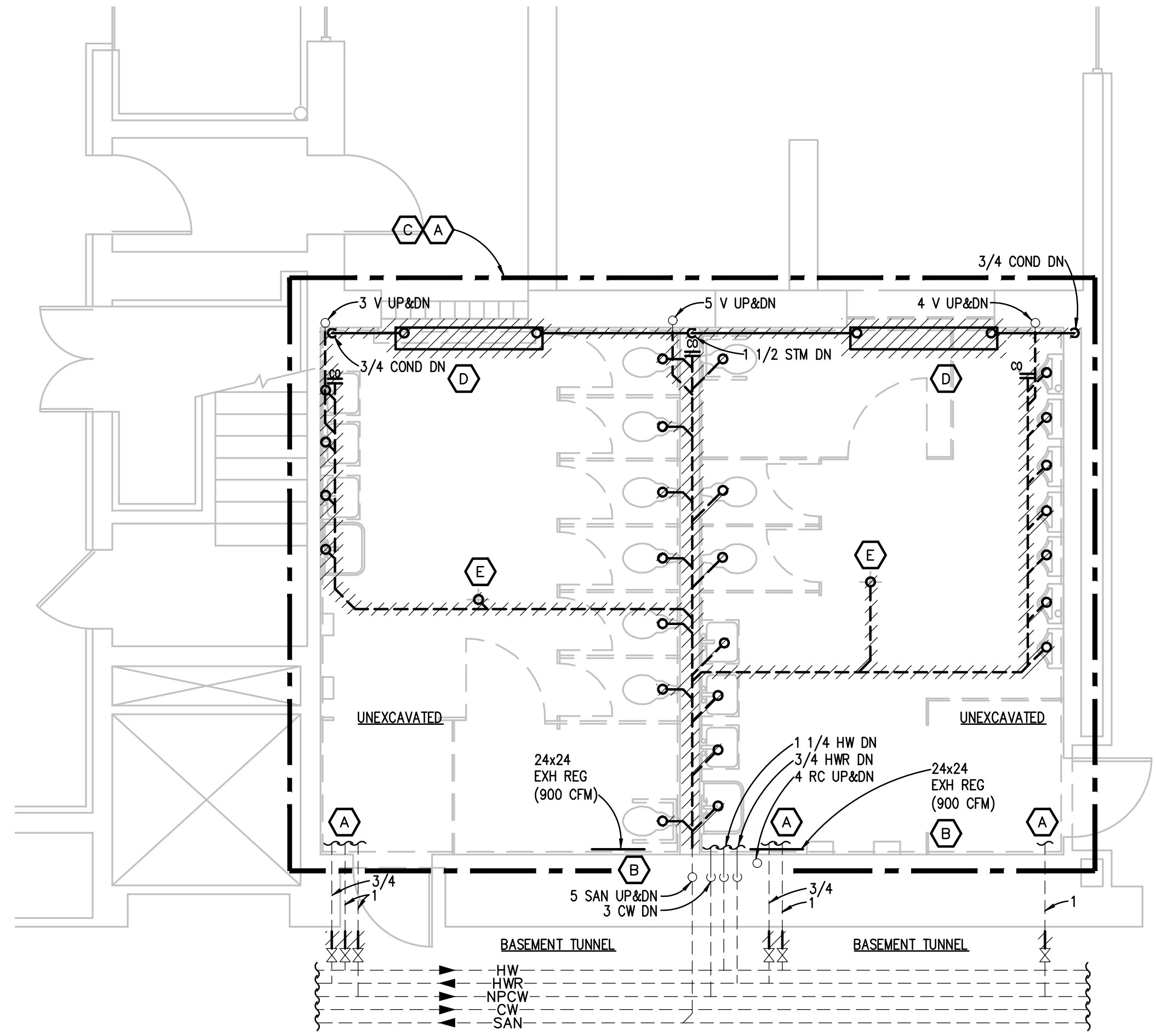
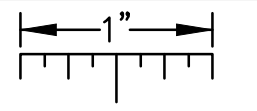
Table with columns for SYMBOL and DESCRIPTION, listing temperature control symbols like carbon dioxide sensor, pressure transmitter, and flow meter.

NOTE: LIST OF ADDITIONAL SYMBOLS & ABBREVIATIONS ASSOCIATED WITH TEMPERATURE CONTROLS ARE IDENTIFIED ON TC DRAWINGS.

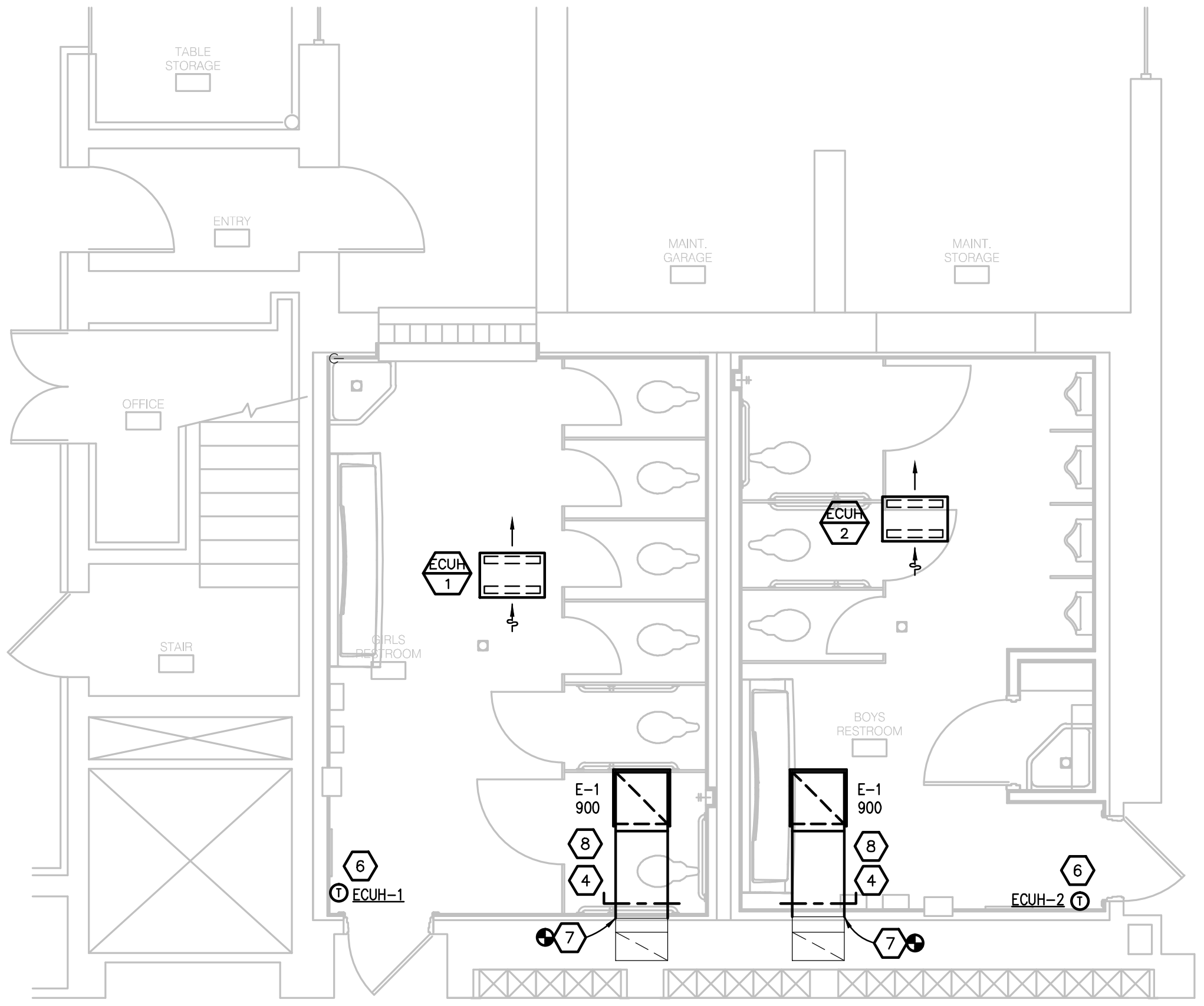
MECHANICAL DESIGN CONDITIONS

OUTDOOR: SUMMER: 95 DEG F DB/75 F WB*, WINTER: -10 F DB**, WATER COOLED EVAPORATIVE EQUIPMENT: 78 DEG WB, AIR COOLED CONDENSING UNITS AMBIENT AIR TEMPERATURE: 95 DEG F.

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



PARTIAL FIRST FLOOR DEMOLITION PLAN
SCALE: 1/4" = 1' - 0"



PARTIAL FIRST FLOOR HVAC PLAN
SCALE: 1/4" = 1' - 0"

MECHANICAL GENERAL NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- SUBMIT PROPOSED METHODS OF ANCHORING AND GUIDING PIPING SYSTEMS TO STRUCTURAL ENGINEER FOR APPROVAL.
- COORDINATE LOCATION OF DUCT-MOUNTED HYDRONIC DEVICES WITH SHEET METAL TRADES.
- BRANCH PIPING SERVING TERMINAL UNIT HEATING COILS OR RADIANT CEILING PANELS SHALL BE 3/4" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING MORE THAN ONE TERMINAL UNIT HEATING COIL SHALL BE 1" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING HOT WATER UNIT HEATERS AND CABINET UNIT HEATERS SHALL BE 1" UNLESS OTHERWISE NOTED.
- MOUNT THERMOSTATS 72" A.F.F., UNLESS OTHERWISE NOTED. LOCATE AS CLOSE AS POSSIBLE TO DOOR WHEN INDICATED NEAR DOOR. COORDINATE EXACT LOCATION WITH ALL OTHER TRADES.

CONSTRUCTION NOTES:

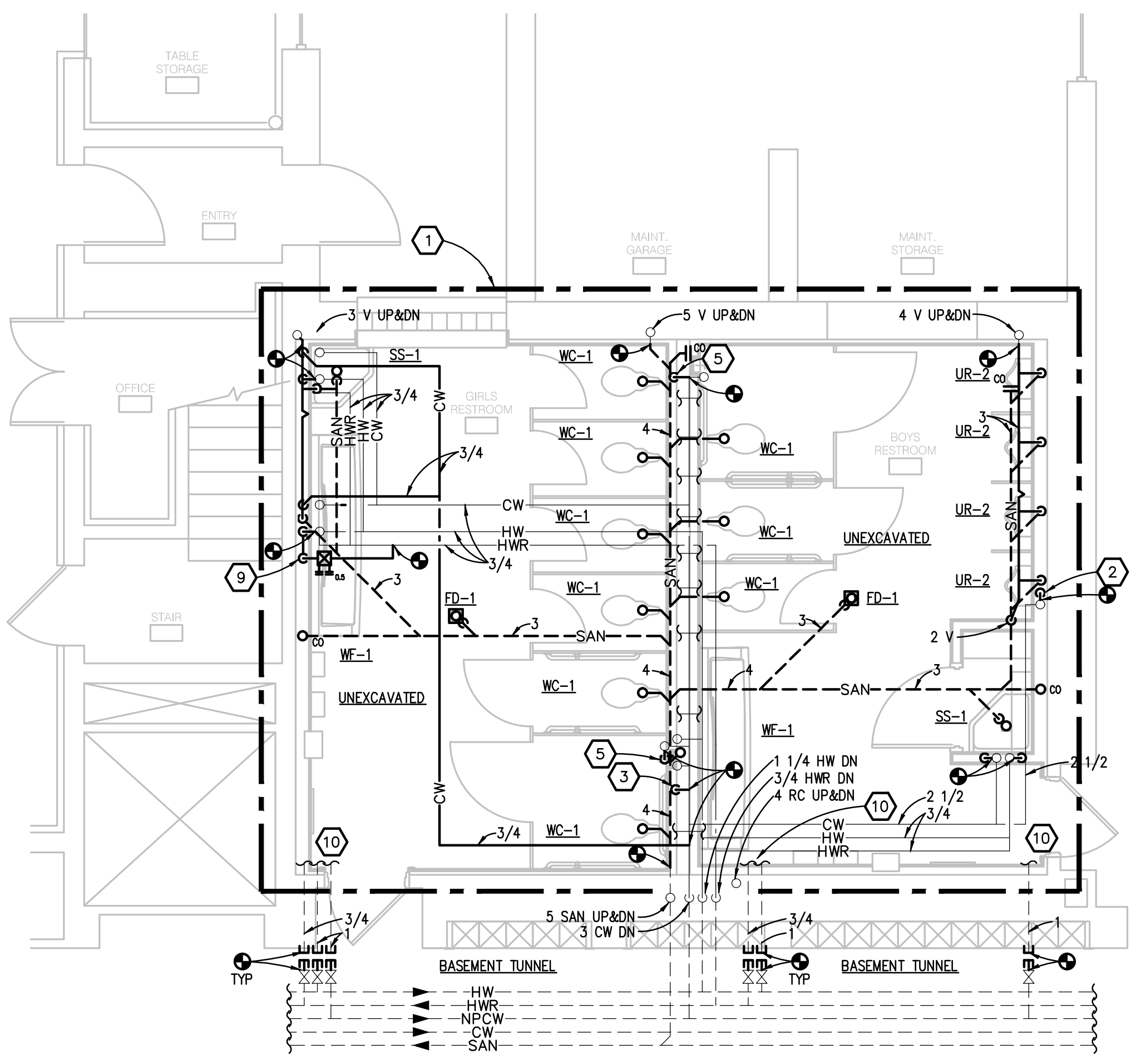
- FIRST FLOOR PLUMBING FIXTURES SHALL BE CONNECTED TO THE DOMESTIC WATER PIPING SERVING THE SECOND FLOOR TOILET ROOMS. INSULATE EXISTING TO REMAIN PIPES DISTURBED AS A PART OF THIS PROJECT AS REQUIRED. REFER TO INSULATION SCHEDULES ON SHEET M61.
- ROUTE CW PIPE UNDIMINISHED TO FURTHEST URINAL. REFER TO PLUMBING FIXTURE SCHEDULE FOR CONNECTION SIZE TO EACH FIXTURE.
- ROUTE 2 1/2" COLD WATER PIPE UNDIMINISHED TO FURTHEST WATER CLOSET. REFER TO PLUMBING FIXTURE SCHEDULE FOR CONNECTION SIZE TO EACH FIXTURE.
- MANUAL VOLUME DAMPER.
- 3/4" COLD WATER DN TO WALL HYDRANT WITH LOCKABLE COVER.
- MOUNT THERMOSTAT ON WALL ABOVE TILE AT 72" AFF.
- CONNECT 18x10 EXHAUST DUCT TO EXISTING RISER IN WALL. FIELD VERIFY EXACT SIZE AND LOCATION.
- TESTING AND BALANCING AGENCY SHALL BALANCE INDIVIDUAL EXHAUST REGISTER.
- 1/2" HOT WATER RETURN PIPE DOWN TO WASH FOUNTAIN HOT WATER SUPPLY.
- ABANDON PIPING BELOW FLOOR IN UNEXCAVATED AREA.

MECHANICAL GENERAL DEMOLITION NOTES:

- ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
- THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
- ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

DEMOLITION KEY NOTES:

- ALL PLUMBING PIPING FOR FIRST FLOOR TOILET ROOM, EXCEPT VENT PIPING IS ROUTED UNDERGROUND, IN THE UNEXCAVATED AREA BELOW THE TOILET ROOM. DOMESTIC PIPING FOR FIXTURES IS EXPOSED. REMOVE EXPOSED COLD, HOT, AND HOT WATER RETURN PIPING AND CAP IN A CONCEALED MANNER. DISCONNECT AND CAP PIPING INSIDE THE BASEMENT TUNNEL. ABANDON ALL UNDERGROUND PIPING IN THE UNEXCAVATED AREA BELOW THE TOILET ROOM. PREPARE FOR NEW WORK.
- REMOVE EXHAUST REGISTER AND PREPARE REMAINING EXHAUST DUCT FOR NEW WORK. PATCH UNUSED PORTION OF WALL OPENING TO MATCH EXISTING. REFER TO ARCHITECTURAL DRAWINGS. PROVIDE PRE CONSTRUCTION AIRFLOW READING PRIOR TO DEMOLITION WORK. RECORD VALUE FOR POST CONSTRUCTION AIR BALANCING.
- DISCONNECT AND REMOVE ALL PLUMBING FIXTURES, ALL RELATED WATER SUPPLIES, WASTE AND VENT (TO POINT INDICATED) AND PREPARE FOR NEW CONNECTION. FIELD VERIFY EXACT LOCATION.
- DISCONNECT AND REMOVE RADIATOR, RELATED STEAM AND CONDENSATE PIPING BACK TO RISER AND CAP PIPING IN A CONCEALED MANNER.
- REMOVE FLOOR DRAIN AND PREPARE FLOOR FOR NEW FLOOR DRAIN.



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

PARTIAL FIRST FLOOR MECHANICAL PLANS

Ehresman Associates, Inc. Scale: As Noted
architects • engineers
Grosse Pointe Public School System
Mason Elementary School
Restroom Remodeling - Phase 2

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TEMPERATURE CONTROL - SYMBOLS LIST

SCHEMATIC SYMBOLS

SYMBOL	DESCRIPTION
AFC	AIR FLOW CONTROLLER
AQ	AQUASTAT, STRAP ON BULB
CO2	CARBON DIOXIDE SENSOR - WALL MOUNTED
CO2	CARBON DIOXIDE SENSOR - DUCT MOUNTED
CO	CARBON MONOXIDE SENSOR - WALL MOUNTED
CO	CARBON MONOXIDE SENSOR - DUCT MOUNTED
CS	CURRENT SWITCH
CT	CURRENT TRANSMITTER
(DAMPER)	DAMPER - INLET VANES
(DAMPER)	DAMPER - OPPOSED BLADE
(DAMPER)	DAMPER - PARALLEL BLADE
M	DAMPER MOTOR
M	DAMPER MOTOR W/ POSITIVE POSITIONER
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
DPS	DIFFERENTIAL PRESSURE SWITCH
EP	ELECTRIC-PNEUMATIC RELAY
EPT	ELECTRIC TO PNEUMATIC TRANSDUCER
CM	FIRE ALARM SYSTEM, ADDRESSABLE CONTROL MODULE
IM	FIRE ALARM SYSTEM, ADDRESSABLE INTERFACE MODULE
FMS	FLOW MEASURING STATION
FM	FLOW METER
FS	FLOW SWITCH
FZ	FREEZE STAT
F	GAUGE - FLOW
P	GAUGE - PRESSURE
T	GAUGE - TEMPERATURE
(G)	GUARD FOR STAT OR SENSOR
(H)	HUMIDIFIER
H	HUMIDISTAT OR HUMIDITY SENSOR (AS DEFINED ON TC DRAWINGS)
H	HUMIDITY SENSOR, DUCT MOUNTED
LVL	LEVEL SWITCH OR TRANSMITTER
LS	LIMIT SWITCH
(E)	LINE - ELECTRIC
(P)	LINE - PNEUMATIC
M	MAIN CONTROL AIR SUPPLY
MS	MOTOR STARTER
OS	OCCUPANCY SENSOR
R	PILOT LIGHT OR BEACON R - RED LENS A - AMBER LENS B - BLUE LENS G - GREEN LENS
PE	PNEUMATIC-ELECTRIC SWITCH
PS	PRESSURE SWITCH
PT	PRESSURE TRANSMITTER
R	RELAY, ELECTRIC
(N)	SELECTOR SWITCH, (N=NUMBER OF POSITIONS)
AI	SIGNAL - DDC/BAS, ANALOG INPUT
AO	SIGNAL - DDC/BAS, ANALOG OUTPUT
DI	SIGNAL - DDC/BAS, DIGITAL INPUT
DO	SIGNAL - DDC/BAS, DIGITAL OUTPUT
AI	SIGNAL - PACKAGED EQUIPMENT, ANALOG INPUT
AO	SIGNAL - PACKAGED EQUIPMENT, ANALOG OUTPUT
DI	SIGNAL - PACKAGED EQUIPMENT, DIGITAL INPUT
DO	SIGNAL - PACKAGED EQUIPMENT, DIGITAL OUTPUT

SCHEMATIC SYMBOLS (CONT.)

SYMBOL	DESCRIPTION
DD	SMOKE DETECTOR - DUCT MOUNTED
SD	SMOKE DETECTOR - SPACE MOUNTED
S/S	START/STOP RELAY
SPT	STATIC PRESSURE TRANSMITTER
SP	STATIC PRESSURE SENSOR OR PROBE
SW	SWITCH
T	TEMPERATURE SENSOR - RIGID ELEMENT IN WELL
T	TEMPERATURE SENSOR - STRAP ON BULB
T	TEMPERATURE SENSOR - DUCT MOUNTED AVG ELEMENT
T	TEMPERATURE SENSOR - DUCT MOUNTED RIGID ELEMENT
(T)	THERMOSTAT OR TEMPERATURE SENSOR (AS DEFINED ON TC DRAWINGS)
(T)	THERMOSTAT FOR NIGHT SETBACK
XF	TRANSFORMER
(V)	VALVE - 2 WAY CONTROL VALVE
(V)	VALVE - 3 WAY CONTROL VALVE
(M)	VALVE - 2 WAY CONTROL W/ POSITIONER
(M)	VALVE - 3 WAY CONTROL W/ POSITIONER
VFC	VARIABLE FREQUENCY CONTROLLER
VS	VELOCITY SENSOR
VIB	VIBRATION SWITCH
V	VOLTAGE SENSOR

WIRING SYMBOLS

SYMBOL	DESCRIPTION
(A)	AUDIBLE DEVICE (AS DEFINED ON TC DRAWINGS)
(M/S)	COIL - MOTOR STARTER CONTACTOR
(R)	COIL - RELAY
(TDR)	COIL - TIME DELAY RELAY
(VFC)	COIL - VARIABLE FREQUENCY CONTROLLER CONTACTOR
(V)	COIL - EP OR SOLENOID VALVE
(C)	CONTACT - INSTANT OPERATING, NO
(C)	CONTACT - INSTANT OPERATING, NC
(C)	CONTACT - TIMED AFTER COIL IS ENERGIZED, NOTC
(C)	CONTACT - TIMED AFTER COIL IS ENERGIZED, NCTO
(C)	CONTACT - TIMED AFTER COIL IS DE-ENERGIZED, NOTO
(C)	CONTACT - TIMED AFTER COIL IS DE-ENERGIZED, NCTC
(G)	GROUND
(M)	MOTOR, SINGLE PHASE
(R)	PILOT LIGHT OR BEACON R - RED LENS A - AMBER LENS B - BLUE LENS G - GREEN LENS
(R)	PILOT LIGHT, WITH PUSH-TO-TEST
(P)	PUSH BUTTON - MOMENTARY CONTACT, NO
(P)	PUSH BUTTON - MOMENTARY CONTACT, NC
(P)	PUSH BUTTON - MOMENTARY CONTACT, NO & NC
(P)	PUSH BUTTON - MOMENTARY, NO (MUSHROOM HEAD)
(P)	PUSH BUTTON - MOMENTARY, NC (MUSHROOM HEAD)

WIRING SYMBOLS (CONT.)

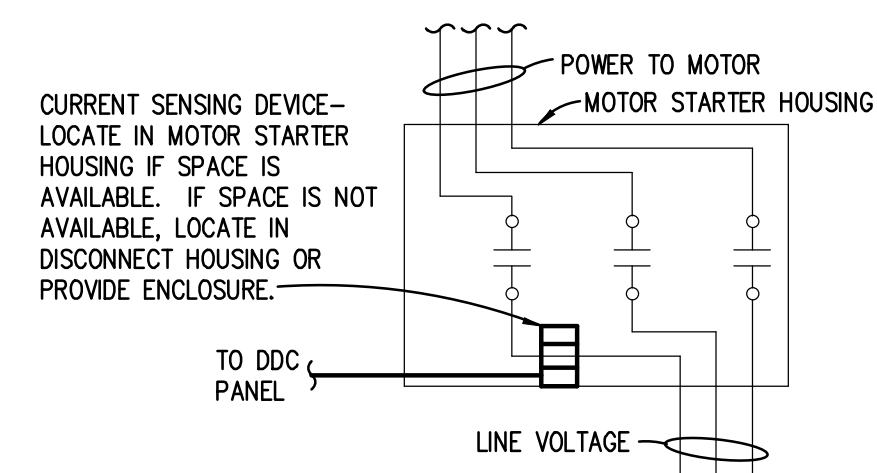
SYMBOL	DESCRIPTION
(1, 2)	SWITCH - 2 POSITION SELECTOR
(H, 0, A)	SWITCH - 3 POSITION SELECTOR HAND/OFF/AUTO
(F)	SWITCH - FLOW (AIR, WATER, ETC.), NO
(F)	SWITCH - FLOW (AIR, WATER, ETC.), NC
(L)	SWITCH - LIMIT, NO
(L)	SWITCH - LIMIT, NO, HELD CLOSED
(L)	SWITCH - LIMIT, NC
(L)	SWITCH - LIMIT, NC, HELD OPEN
(L)	SWITCH - LIQUID LEVEL, NO
(L)	SWITCH - LIQUID LEVEL, NC
(M)	SWITCH - MANUAL SPST, NO
(M)	SWITCH - MANUAL DPDT, NO
(M)	SWITCH - MANUAL SPST, NC
(M)	SWITCH - MANUAL DPDT, NC
(M)	SWITCH - MANUAL SPDT
(M)	SWITCH - MANUAL DPDT
(M)	SWITCH - PRESSURE & VACUUM, NO
(M)	SWITCH - PRESSURE & VACUUM, NC
(M)	SWITCH - TEMPERATURE ACTUATED, NO
(M)	SWITCH - TEMPERATURE ACTUATED, NC
(M)	THERMAL OVERLOAD, SINGLE PHASE
(M)	THERMAL OVERLOAD CONTACTS - 3 PHASE
(X)	TRANSFORMER
(W)	WIRE TERMINATION AT DEVICE
(W)	WIRE TO WIRE TERMINATION
(W)	WIRING NOT CONNECTED

WIRING TERMS

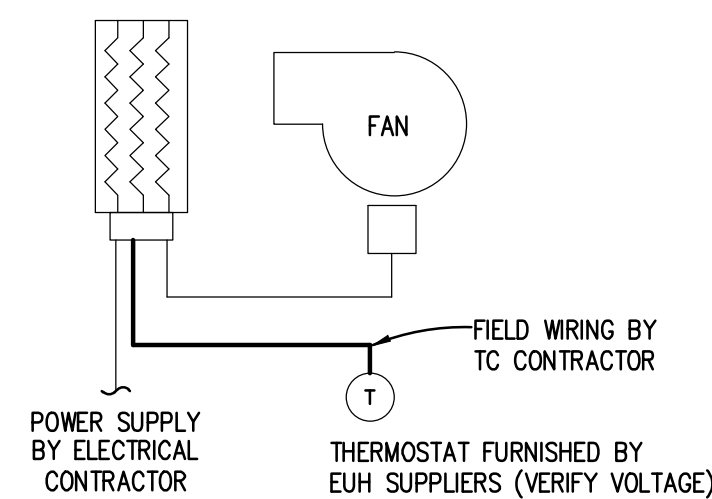
ABBREVIATION	DESCRIPTION
SPST	SINGLE POLE SINGLE THROW
SPDT	SINGLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DPDT	DOUBLE POLE DOUBLE THROW
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
NOTO	NORMALLY OPEN TIMED OPEN
NOTC	NORMALLY OPEN TIMED CLOSED
NCTO	NORMALLY CLOSED TIMED OPEN
NCTC	NORMALLY CLOSED TIMED CLOSED

PNEUMATIC CONTROL SYMBOLS (ADDITIONAL)

SYMBOL	DESCRIPTION
LA	LOAD ANALYZER
LR	LOW PRESSURE SELECTOR RELAY
(G)	MANUAL GRADUAL POSITION SWITCH
PS	PNEUMATIC SWITCH
RR	RATIO RELAY
RC	RECEIVER CONTROLLER
(X)	SWITCHED CONTROL AIR SUPPLY



CURRENT SWITCH INSTALLATION DETAIL
NO SCALE



TYPICAL ECUH CONTROL

NOTE:
REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF UNITS.

SEQUENCE OF OPERATION:
SPACE THERMOSTAT SHALL ENERGIZE UNIT HEATER CONTROL CIRCUIT TO MAINTAIN SPACE TEMPERATURE SETPOINT.

NOTE: REFER TO MECHANICAL STANDARDS ON DRAWING M0.1 FOR ADDITIONAL SYMBOLS & ABBREVIATIONS THAT MAY BE USED ON TEMPERATURE CONTROL DRAWINGS.

NOTE: SOME SYMBOLS & ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

Bidding: 12 January 2016

TEMPERATURE CONTROLS STANDARDS AND GENERAL NOTES

Ehresman Associates, Inc. architects • engineers Scale: As Noted

Grosse Pointe Public School System
Mason Elementary School
Restroom Remodeling - Phase 2

Project No. 9013

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ELECTRICAL SYMBOL LIST

(NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT)

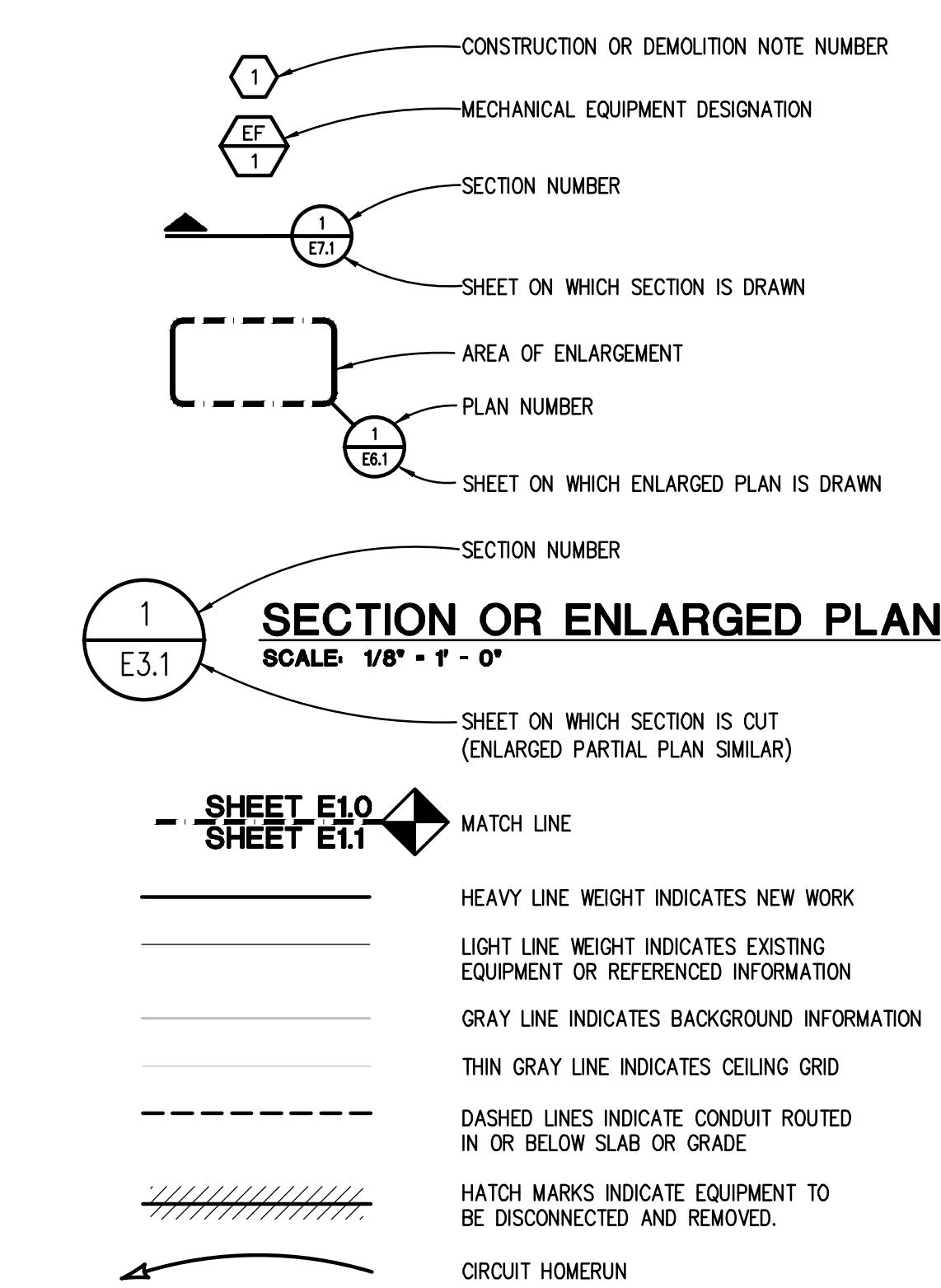
SYMBOL	DESCRIPTION
FX	FIXTURE TYPE
[]	LIGHTING FIXTURE
[]	DIRECT/INDIRECT LIGHTING FIXTURE
[]	EMERGENCY FIXTURE
FX-NL	NIGHT LIGHTING FIXTURE
[]	LIGHTING FIXTURE
[]	EMERGENCY FIXTURE
[]	WALL MOUNTED LIGHTING FIXTURE
[]	LIGHTING FIXTURE
[]	EMERGENCY FIXTURE
[]	DIRECTIONAL LIGHTING FIXTURE
[]	PENDANT LIGHTING FIXTURE
[]	WALL SCONCE
[]	LIGHTING TRACK
[]	TRACK LIGHTING FIXTURE
[]	POLE MOUNTED LIGHTING FIXTURE
[]	POLE MOUNTED LIGHTING FIXTURE - POST TOP
[]	BOLLARD LIGHTING FIXTURE
[]	EMERGENCY LIGHTING UNIT
[]	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)
[]	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)
[]	EXIT LIGHTING FIXTURE - WALL MOUNTED
[]	EMERGENCY LOAD TRANSFER DEVICE
S	SINGLE POLE TOGGLE SWITCH
S2	TWO POLE TOGGLE SWITCH
S3	3 WAY TOGGLE SWITCH
S4	4 WAY TOGGLE SWITCH
K	KEY OPERATED SWITCH
K3	3 WAY KEY OPERATED SWITCH
K4	4 WAY KEY OPERATED SWITCH
D	DIMMER SWITCH
D3	3 WAY DIMMER SWITCH
SP	PILOT SWITCH

SYMBOL	DESCRIPTION
[]	TWO-WAY COMMUNICATION SYSTEM CALL STATION
[]	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER
[]	TWO-WAY COMMUNICATION SYSTEM ANNUNCIATOR & COMMUNICATION PANEL
[]	TWO-WAY COMMUNICATION SYSTEM POWER SUPPLY WITH BATTERY BACK-UP
[]	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER POWER SUPPLY WITH BATTERY BACK-UP
[]	REMOTE GENERATOR ANNUNCIATOR PANEL
[]	AUTOMATIC TRANSFER SWITCH
[]	UN-INTERRUPTIBLE POWER SUPPLY
[]	LOW VOLTAGE CONTROL STATION "X" INDICATES TYPE
[]	SINGLE RECEPTACLE
[]	DUPLEX RECEPTACLE
[]	QUAD RECEPTACLE
[]	ABOVE COUNTER DUPLEX RECEPTACLE (SIMILAR FOR TAMPER RESISTANT, QUADS, EMERGENCY AND GFI RECEPTACLES)
[]	DUPLEX RECEPTACLE-GROUND FAULT CIRCUIT INTERRUPTER
[]	DUPLEX EMERGENCY RECEPTACLE
[]	TAMPER RESISTANT RECEPTACLE
[]	QUAD TAMPER RESISTANT RECEPTACLE
[]	ABOVE COUNTER DUPLEX TAMPER RESISTANT RECEPTACLE
[]	DUPLEX UPS RECEPTACLE
[]	USB RECEPTACLE
[]	CEILING MOUNTED DUPLEX RECEPTACLE
[]	SPECIAL RECEPTACLE - REFER TO ELECTRICAL STANDARD SCHEDULES
[]	MULTI-OUTLET RACEWAY
[]	MULTI-SERVICE DROP SEE ELECTRICAL DETAILS AND DIAGRAMS SHEET "X" INDICATES TYPE
[]	POKE THRU SERVICE FITTING "X" INDICATES TYPE
[]	FLOOR BOX SERVICE FITTING "X" INDICATES TYPE
[]	ACCESS FLOOR SERVICE FITTING "X" INDICATES TYPE
[]	CORD REEL "X" INDICATES TYPE
[]	DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES
[]	3-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES
[]	4-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES
[]	DIGITAL TIME SWITCH
[]	ILLUMINATED TOGGLE SWITCH FOR CONTROL OF LIGHTING ON CRITICAL POWER-ILLUMINATED WHEN SWITCH IS IN "OFF" POSITION
[]	LOW VOLTAGE SWITCH
[]	OCCUPANCY SENSOR
[]	OCCUPANCY SENSOR REFER TO ELECTRICAL STANDARD SCHEDULES
[]	OCCUPANCY SENSOR "X" INDICATES TYPE
[]	MUSIC/DISASTER SPEAKER

SYMBOL	DESCRIPTION
[]	CONTROL PANEL
[]	MOTOR
[]	VARIABLE FREQUENCY CONTROLLER
[]	MANUAL CONTROLLER
[]	MAGNETIC CONTROLLER
[]	COMBINATION MAGNETIC CONTROLLER
[]	NON-FUSIBLE DISCONNECT SWITCH
[]	FUSIBLE DISCONNECT SWITCH
[]	ENCLOSED CIRCUIT BREAKER
[]	PUSH BUTTON STATION
[]	JUNCTION BOX
[]	HARD WIRE POWER CONNECTION
[]	AUTOMATIC DOOR CONTROLLER
[]	AUTOMATIC DOOR PUSH PAD OPERATOR
[]	GROUND ROD
[]	GROUND CONNECTION
[]	CONDUIT SLEEVE WITH BUSHINGS LENGTH AS REQUIRED "X" INDICATES CONDUIT SIZE
[]	CONDUIT UP
[]	CONDUIT DOWN
[]	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET
[]	ABOVE COUNTER EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET
[]	EMPTY BOX FOR FUTURE CEILING MOUNTED TELECOMMUNICATION OUTLET
[]	TELECOMMUNICATION OUTLET "X" INDICATES TYPE
[]	ABOVE COUNTER TELECOMMUNICATION OUTLET "X" INDICATES TYPE
[]	TELECOMMUNICATION CEILING MOUNTED OUTLET "X" INDICATES TYPE
[]	TELECOMMUNICATION BACKBOARD
[]	TELECOMMUNICATION GROUNDING BUS BAR
[]	TELECOMMUNICATION MAIN GROUNDING BUS BAR
[]	INTERCOM OUTLET
[]	HOSPITAL PAGING SPEAKER
[]	SPEAKER - WALL MOUNTED
[]	MICROPHONE
[]	VOLUME CONTROL/STATION SELECTOR
[]	SIGNALING BELL
[]	SINGLE FACE CLOCK - CEILING MOUNTED
[]	SINGLE FACE CLOCK - WALL MOUNTED
[]	DOUBLE FACE CLOCK - CEILING MOUNTED
[]	DOUBLE FACE COMBINATION CLOCK/SPEAKER CEILING MOUNTED
[]	DOUBLE FACE CLOCK - WALL MOUNTED
[]	DOUBLE FACE COMBINATION CLOCK/SPEAKER WALL MOUNTED
[]	TIME CLOCK
[]	CONTACTOR
[]	PHOTOCELL
[]	TWST TIMER

SYMBOL	DESCRIPTION
[]	SECURITY CAMERA
[]	MOTION DETECTOR
[]	SECURITY KEY SWITCH
[]	DOOR CONTACT
[]	KEY PAD
[]	ACCESS CONTROL STATION
[]	DURESS PUSH BUTTON STATION
[]	DELAYED EGRESS
[]	REQUEST TO EXIT STATION
[]	CIRCUIT BREAKER
[]	DRAWOUT CIRCUIT BREAKER MANUALLY/ OPERATED
[]	DRAWOUT CIRCUIT BREAKER ELECTRICALLY/ OPERATED
[]	SWITCH
[]	AUTOMATIC OR MANUAL TRANSFER SWITCH
[]	FUSE
[]	TRANSFORMER
[]	CURRENT TRANSFORMER
[]	POTENTIAL TRANSFORMER
[]	LIGHTNING ARRESTOR
[]	PANELBOARD "X" INDICATES PANELBOARD NAME
[]	GROUND
[]	STRESS CONE TERMINATION
[]	SECURITY KEY INTERLOCK
[]	ENGINE GENERATOR
[]	UTILITY METER
[]	ELECTRONIC METERING UNIT
[]	AMMETER
[]	VOLTMETER
[]	AMMETER SWITCH
[]	VOLTMETER SWITCH
[]	SURGE PROTECTIVE DEVICE
[]	CONTROL RELAY
[]	TIME DELAY RELAY
[]	THERMAL OVERLOAD RELAY
[]	NORMALLY OPEN CONTACTS
[]	NORMALLY CLOSED CONTACTS
[]	N.O. PUSH BUTTON SINGLE CIRCUIT
[]	N.C. PUSH BUTTON SINGLE CIRCUIT
[]	CABLE VAULT "X-X" INDICATES TYPE
[]	BRANCH CIRCUIT PANELBOARD
[]	MOTOR CONTROL CENTER
[]	TRANSFORMER
[]	DISTRIBUTION PANEL
[]	GROUND BUS
[]	PLUG IN BUSWAY
[]	FEDER BUSWAY

STANDARD METHODS OF NOTATION



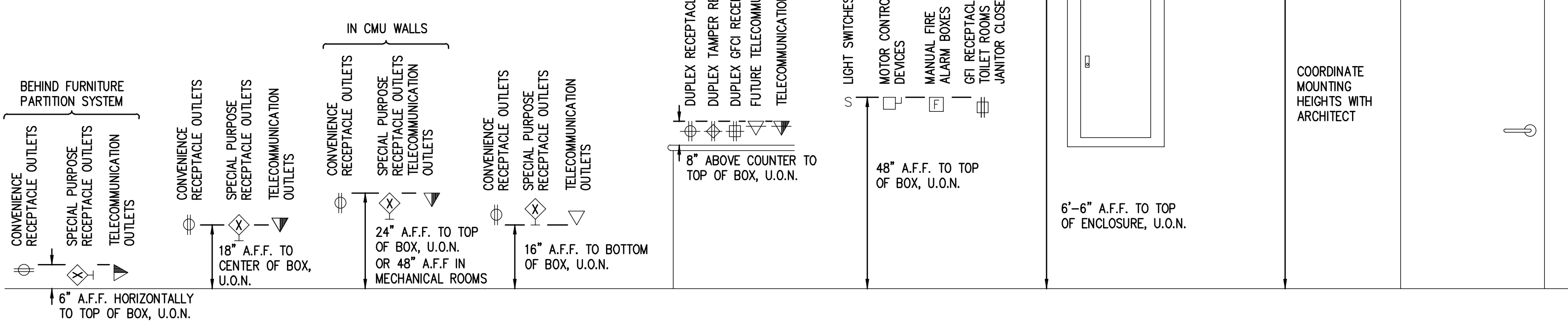
ELECTRICAL ABBREVIATION LIST

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
A	AMPERES	KV	KILOVOLT	P	POLE
AF	AMPERES FRAME (BREAKER RATING)	KVA	KILOVOLT - AMPERES	PB	PUSHBUTTON STATION
A.F.F.	ABOVE FINISH FLOOR	KW	KILOWATT	PH	PHASE
AIC	AMPS INTERRUPTING CAPACITY	KWH	KILOWATT - HOURS	PT	POTENTIAL TRANSFORMER
AL	AUDIENCE LEFT	LA	LIGHTNING ARRESTOR	PDP	POWER DISTRIBUTION PANEL
AR	AUDIENCE RIGHT	LP	LIGHTING PANEL	RECEPT.	RECEPTACLE
AT	AMPERES TRIP (BREAKER SETTING)	LDP	LIGHTING DISTRIBUTION PANEL	RDP	RECEPTACLE DISTRIBUTION PANEL
ATS	AUTOMATIC TRANSFER SWITCH	LDP	LIGHTING DISTRIBUTION PANEL	RCP	RECEPTACLE PANEL
AUX	AUXILIARY	MAX	MAXIMUM	RSC	RIGID STEEL CONDUIT
BKR	BREAKER	MCB	MAIN CIRCUIT BREAKER	SCHED	SCHEDULE
BPS	BOLTED PRESSURE SWITCH	MCC	MOTOR CONTROL CENTER	SW	SWITCH
C	CONDUIT	MDP	MAIN DISTRIBUTION PANEL	SWB	SWITCHBOARD
CB	CIRCUIT BREAKER	MECH	MECHANICAL	SWR	SWITCHGEAR
CKT	CIRCUIT	MIN	MINIMUM	TB	TERMINAL BOX
CT	CURRENT TRANSFORMER	MISC.	MISCELLANEOUS	TELECOM	TELECOMMUNICATIONS
DEMO	DEMOLITION	MLO	MAIN LUGS ONLY	TP	TAMPER PROOF
DEM	DEMOUNTED	MTD	MOUNTED	TTB	TELEPHONE TERMINAL BACKBOARD
DISC	DISCONNECT	MTG	MOUNTING	TP	TYPICAL
DP	DISTRIBUTION PANEL	MTR	MOTOR	U.Q.N.	UNLESS OTHERWISE NOTED
DWG	DRAWING	N	NEUTRAL	US	UPSTAGE
EBU	EMERGENCY BATTERY UNIT	NC	NORMALLY CLOSED	V	VOLTS
EC	ELECTRICAL CONTRACTOR	NEC	NATIONAL ELECTRICAL CODE	W	WIRE
ELEC	ELECTRICAL	NF	NON-FUSIBLE	WP	WEATHERPROOF
EM/EMERG	EMERGENCY	NIC	NOT IN CONTRACT	X	EXISTING
EMT	ELECTRICAL METALLIC TUBING	NL	NIGHT LIGHT	XP	EXPLOSION PROOF
EO	ELECTRICALLY OPERATED	NO	NORMALLY OPEN	(E)	EXISTING
EWC	ELECTRIC WATER COOLER	NTS	NOT TO SCALE	(R)	RELOCATED
EXIST	EXISTING	OC	ON CENTER		
FA	FIRE ALARM				
FLA	FULL LOAD AMPS				
FLR	FLOOR				
FOH	FRONT OF HOUSE				
FU	FUSE				
G/GRD/EG	GROUND				
GFCI	GROUND FAULT CIRCUIT INTERRUPTER				
HOA	HAND-OFF-AUTO				
HP	HORSEPOWER				
HV	HIGH VOLTAGE				
HZ	HERTZ				
IG	ISOLATED GROUND				
JB	JUNCTION BOX				

ELECTRICAL DRAWING INDEX

SHEET NO.	SHEET TITLE
E01	ELECTRICAL STANDARDS AND DRAWING INDEX
E02	ELECTRICAL STANDARD SCHEDULES
E03	ELECTRICAL COMPOSITE PLAN
E11	PARTIAL FIRST FLOOR ELECTRICAL PLAN

STANDARD MOUNTING HEIGHTS



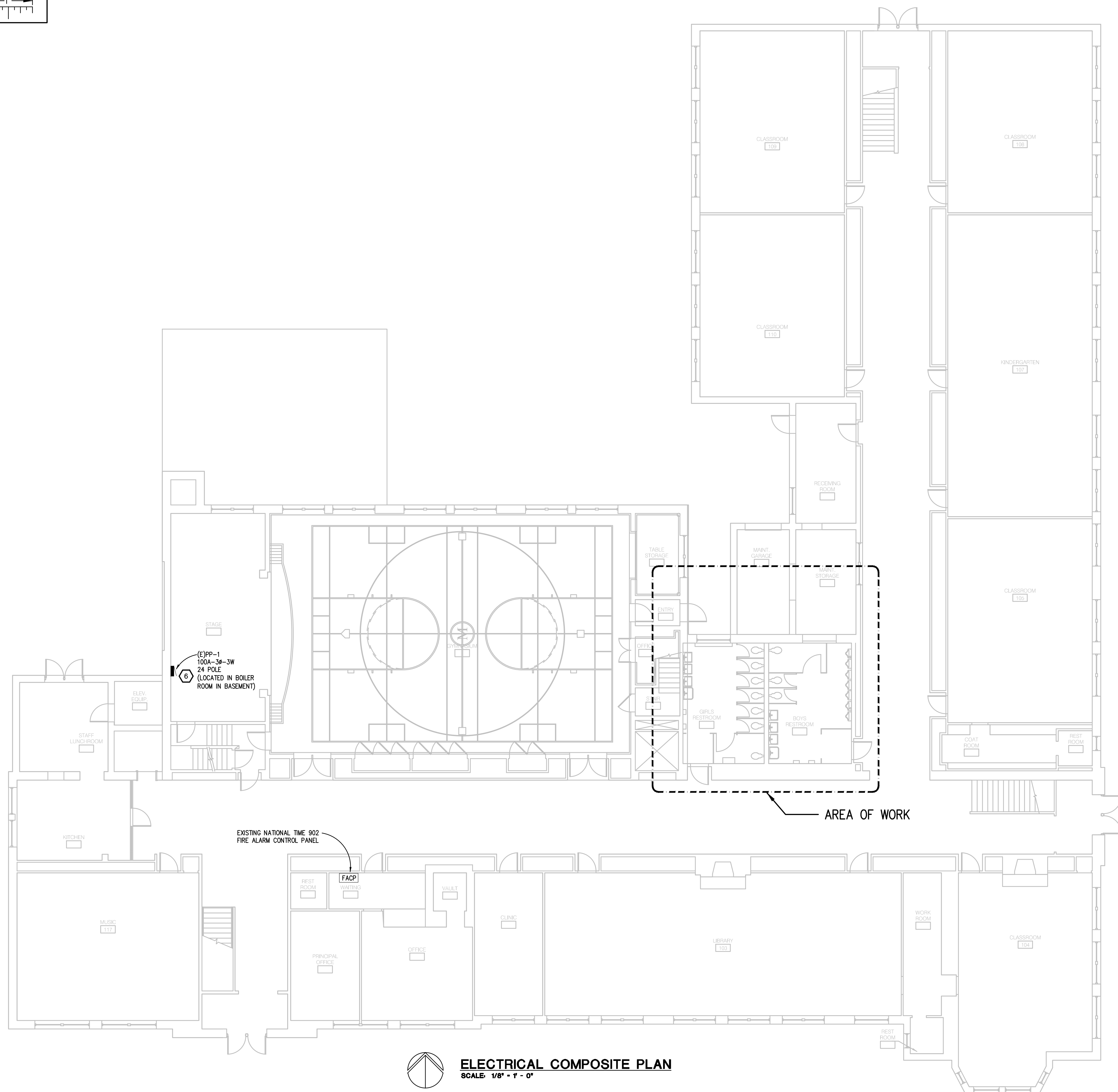
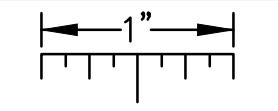
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Bidding: 12 January 2016

ELECTRICAL STANDARDS AND DRAWING INDEX

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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



(E)FP-1
100A-34-3W
24 POLE
(LOCATED IN BOILER ROOM IN BASEMENT)

EXISTING NATIONAL TIME 902
FIRE ALARM CONTROL PANEL

AREA OF WORK

ELECTRICAL COMPOSITE PLAN
SCALE: 1/8" = 1' - 0"

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ELECTRICAL COMPOSITE PLAN

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Grosse Pointe Public School System
Mason Elementary School
Restroom Remodeling - Phase 2

Project No. 9013

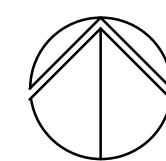
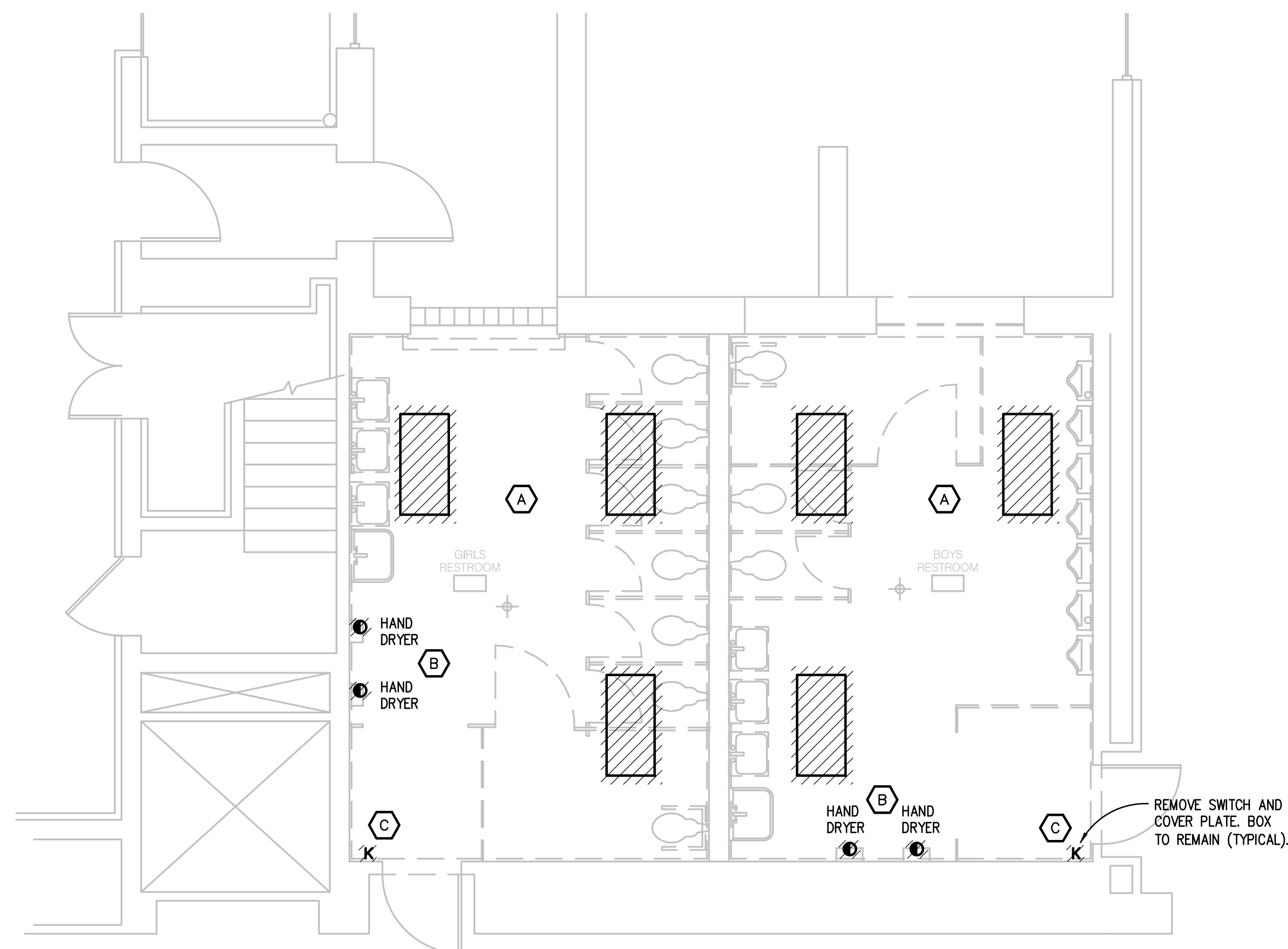
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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



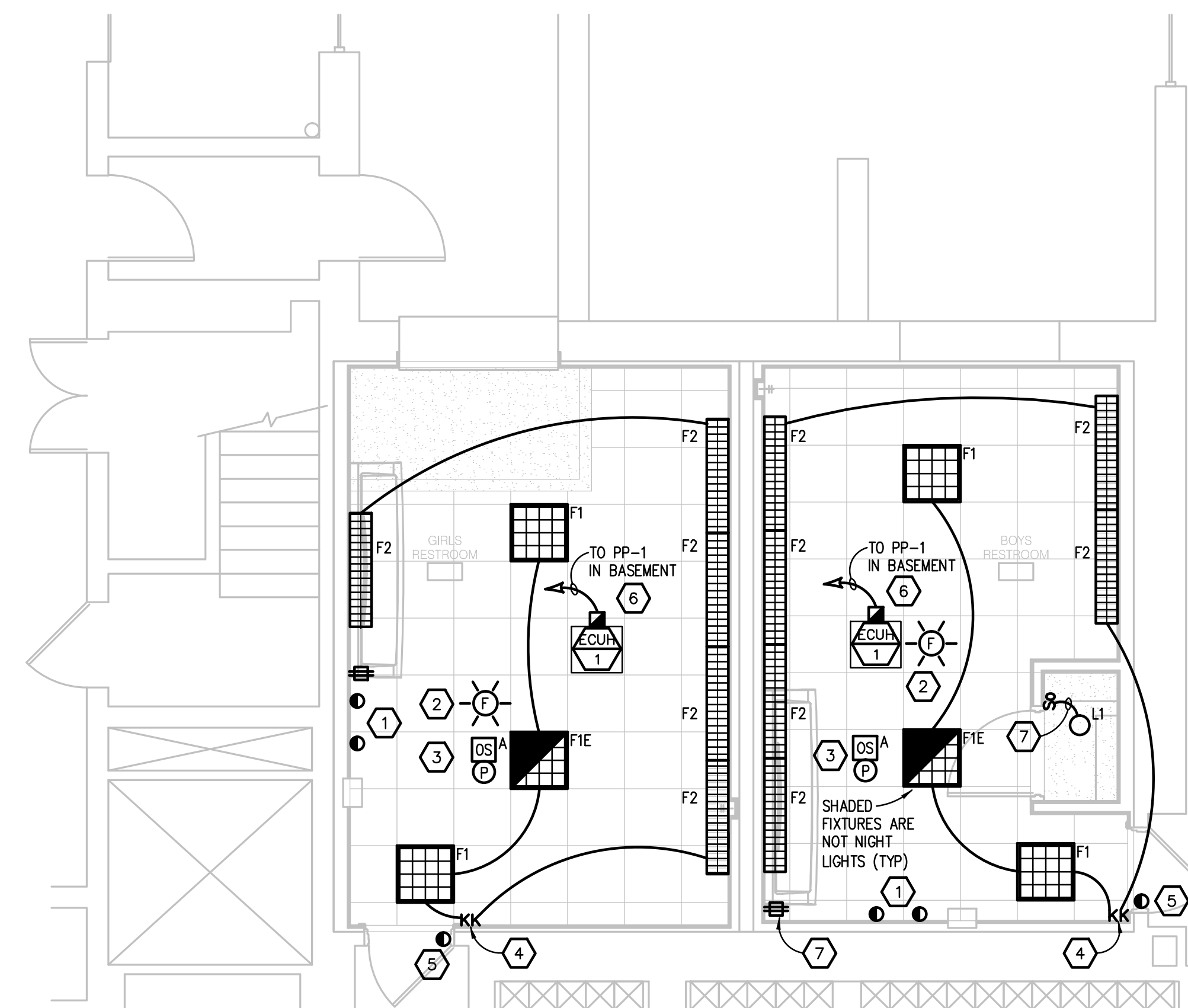
PARTIAL FIRST FLOOR ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1' - 0"

GENERAL DEMOLITION NOTES:

- VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
- EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
- REMOVE LIGHTING FIXTURES AND ELECTRICAL DEVICES AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE DEVICES SHOWN.
- COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
- PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
- REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
- MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.
- DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
- PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
- RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".
- PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.
- VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
- COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.

DEMOLITION NOTES:

- DISCONNECT AND REMOVE LIGHTING. EXISTING LIGHTING CIRCUIT SHALL REMAIN FOR REUSE.
- DISCONNECT AND REMOVE ELECTRIC HAND DRYERS. EXISTING CIRCUITING SHALL REMAIN FOR REUSE.
- REMOVE LIGHT SWITCH. CIRCUITING SHALL REMAIN FOR REUSE.



PARTIAL FIRST FLOOR ELECTRICAL NEW WORK PLAN
SCALE: 1/4" = 1' - 0"

GENERAL NOTES:

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- RE-SUPPORT ALL EXPOSED EXISTING CONDUIT AND DATA CABLING AS REQUIRED PER NEC.

CONSTRUCTION NOTES:

- ELECTRIC HAND DRYER. ONE IN EACH RESTROOM SHALL BE BARRIER FREE MOUNTED AT 37" AFF. THE OTHERS SHALL BE AT 43" AFF TO THE BOTTOM OF DRYER. ALL RACEWAY SHALL BE CONCEALED IN WALLS. COORDINATE WITH ARCHITECTURAL ELEVATION PLANS PRIOR TO ROUGH-IN. CONNECT TO EXISTING CIRCUITING AND EXTEND CIRCUITING AS REQUIRED.
- NEW CEILING MOUNTED FIRE ALARM DEVICE. NEW CIRCUIT FROM NATIONAL TIME 902 FIRE ALARM CONTROL PANEL LOCATED IN OFFICE. ALL RACEWAY SHALL BE CONCEALED IN WALLS.
- OCCUPANCY SENSOR SHALL BE PROVIDED WITH PHOTO CELL CONTROL FOR DAYLIGHT HARVESTING AND SET AT 10 FOOTCANDELS. DAYLIGHT CONTROL SHALL ONLY BE FOR LIGHT FIXTURE TYPES F1 AND F1E.
- NEW KEYED LIGHT SWITCHING. PROVIDE NEW 2 GANG BOX. CONNECT TO EXISTING LIGHTING CIRCUIT. PROVIDE GROUND WIRE PER NEC. NO EXPOSED CONDUIT IS ACCEPTABLE. PROVIDE STAINLESS STEEL COVER PLATE. SWITCH BOX SHALL BE RECESSED BEHIND TILE WALL FINISH. COORDINATE WITH ARCHITECTURAL TRADES PRIOR TO ROUGH-IN.
- AUTODOOR OPERATOR. INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS FOR A COMPLETE INSTALLATION AND OPERATION. CIRCUIT TO NEAREST AVAILABLE 120V CIRCUIT AND EXTEND CIRCUITING AS REQUIRED. PUSHBUTTON IS WIRELESS. NO SURFACE MOUNTED RACEWAY IS ACCEPTABLE.
- PROVIDE NEW 20A-3P BREAKER IN EXISTING PP-1 LOCATED IN BASEMENT. SEE COMPOSITE PLAN FOR EXACT LOCATION. PP-1 100A, 208/120V-3A-3W PANELBOARD WITH (2)40A-3P BREAKERS SERVING AC UNITS. NEW LOAD IS HEATING ONLY AND WILL NOT INCREASE DEMAND LOAD.
- CONNECT TO 120V LIGHTING CIRCUIT IN RESTROOM. EXTEND EXISTING CIRCUIT AS REQUIRED.

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PARTIAL FIRST FLOOR ELECTRICAL PLAN

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