

RENOVATION FOR BCPS:

BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN




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SCHEDULE OF ALTERNATES:

ALTERNATE NO. 1
BASE BID: EXISTING RED LOCKERS TO REMAIN
ALTERNATE: EXISTING RED LOCKERS TO BE PREPPED AND PAINTED.

ALTERNATE NO. 2
BASE BID: EXISTING RED LOCKERS TO REMAIN
ALTERNATE: EXISTING RED LOCKERS TO BE REMOVED AND REPLACED WITH NEW METAL LOCKERS.

ALTERNATE NO. 3
BASE BID: EXISTING MEN AND WOMEN'S TOILET ROOMS TO REMAIN AS-IS.
ALTERNATE: EXISTING MEN AND WOMEN'S TOILET ROOMS TO BE REMODELED AS SHOWN ON DRAWINGS. FOR WALLS - SGFT WALLS TO BE PATCHED WITH SIMILAR SGFT (COLOR NOT MATCHING) AT PLUMBING LOCATIONS, PREPPED AND EPOXY PAINTED.

ALTERNATE NO. 3
BASE BID: EXISTING MEN AND WOMEN'S TOILET ROOMS TO REMAIN AS-IS.
ALTERNATE: EXISTING MEN AND WOMEN'S TOILET ROOMS TO BE REMODELED AS SHOWN ON DRAWINGS. FOR WALLS - GRIND OFF TERRAZZO COVE AND PROVIDE NEW CERAMIC WALL TILE ON 1/2" TILE BACKER BOARD MECHANICALLY FASTENED TO WALL. AT URINAL WALL, INCLUDE METAL FURRING.

NO.	REVISION	DATE

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PROJECT TITLE
RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN

SHEET TITLE
TITLE SHEET

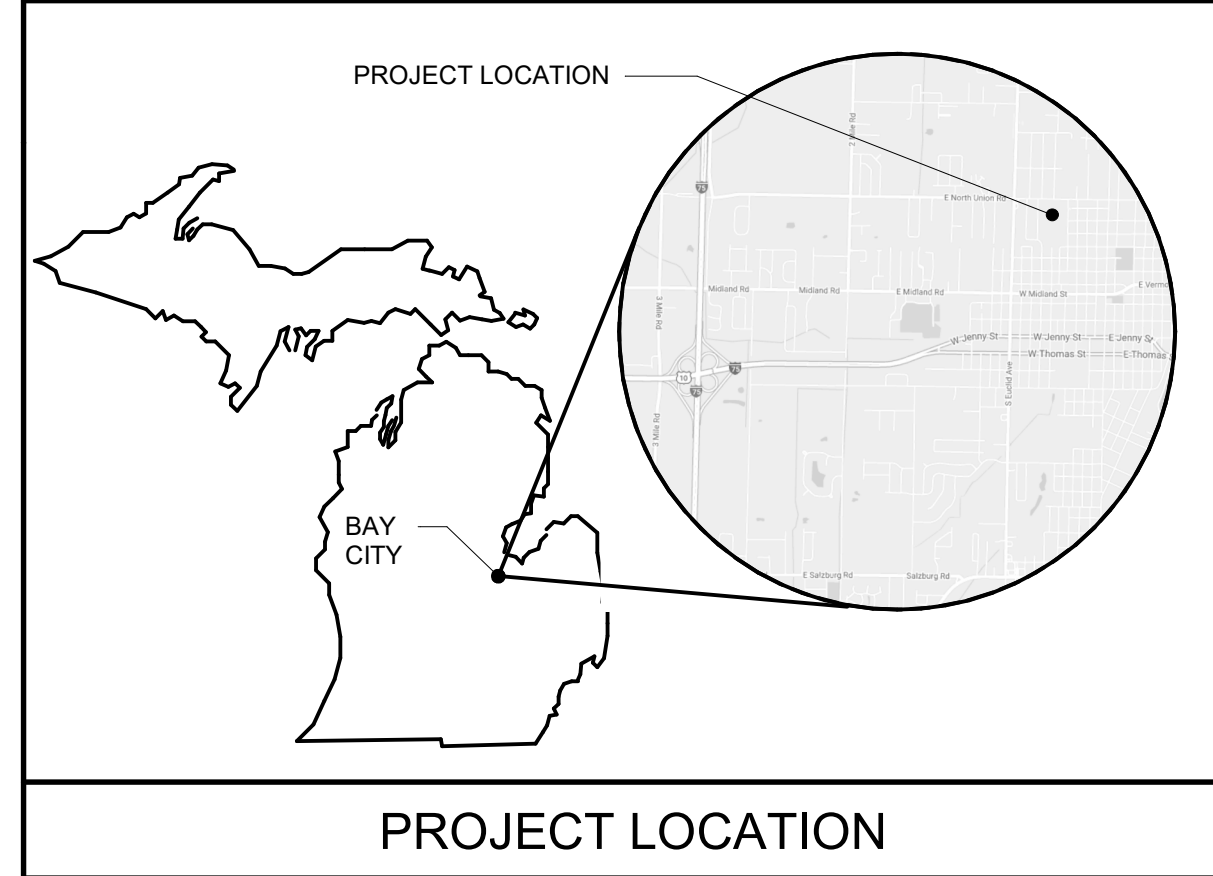
PROJECT NUMBER 2018040.16	SHEET NUMBER TS
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY J.A.R.	

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20

LOCATION NUMBER GRID

	BRICK MASONRY		GROUT
	CAST STONE		GYPSUM BOARD (CEILING/ELEVATION)
	STUD WALL		GYPSUM BOARD (SECTION)
	BATT INSULATION		BACKER BOARD
	SOUND ATTENUATION BLANKETS/SPRAYED INSUL.		PARTICLE BOARD & PLYWOOD
	RIGID INSULATION & RIGID INSULATION BOARD		SOLID SURFACE
	DIMENSIONAL LUMBER		CONCRETE
	FINISH LUMBER		CONCRETE WALK (PLAN)
	STEEL		GRAVEL OR STONE AS INDICATED
	SUSPENDED CEILING TILE		COMPACTED SAND FILL
	TILE ON MORTAR BED		MORTAR NET

ARCHITECTURAL MATERIAL LEGEND



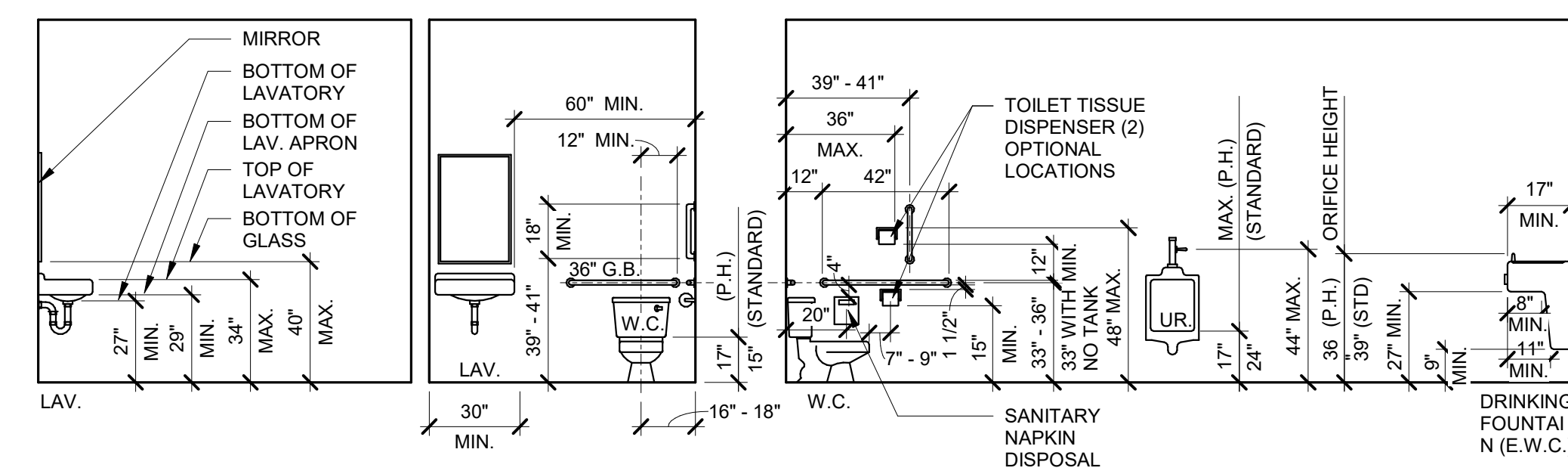
PROJECT LOCATION

ABBV.	ABBREVIATIONS	F.R.P./FRP	FIBER REINFORCED POLYESTER	RAD.	RADIUS
A.F.F.	ABOVE FINISHED FLOOR	GA.	GAUGE	REFRIG.	REFRIGERATOR
A.C.P.	ACoustical CEILING PANEL	G. TLE/GET	GLAZING TILE	REINFC.	REINFORCEMENT
A.C.T.	ACoustical CEILING TILE	GL.	GLAZING	R.W.B./RWB	RESILIENT WALL BASE
A.F.P.	ACrylic RESIN PANEL	G.B.	GRASS BAR	R.S.R./RSF	RESILIENT SHEET FLOORING
ADOL.	ADDITIONAL	GYP. BD.	GYPSUM BOARD	R.T.F./RTF	RESILIENT TILE FLOORING
ADJ.	ADJUSTER			R.O.D.	ROUGH DRAINING
ALT.	ALTERNATE	H.W.D.	HARDWOOD	S.A.T.	SUSPENDED ACoustical TILE
ALUM.	ALUMINUM	H.P.	HIGH POINT	S.F. GL.	SAFETY GLAZING
ANOD.	ANODIZED	H.M./HM	HOLLOW METAL	S.N.D.R.	SANITARY NAPKIN DISPENSER
APPROX.	APPROXIMATE	HORIZ.	HORIZONTAL	S.N.D.L.	SANITARY NAPKIN DISPOSAL
ARCH.	ARCHITECTURAL	H.B.	HOSE BE	S.O.	SASH OPENING
BKR. BD.	BACKER BOARD	I.D.A./I.D.	INSIDE DIAMETER	SCHED.	SCHEDULE
BRG.	BEARING	I.F. BL.	INSIDE FACE OF BLOCK	SNT.	SEALANT
BT.	BITUMINOUS	I.F. BR.	INSIDE FACE OF BRICK	SHT.	SHEET
BLK(G)	BLOCKING	INSUL.	INSULATED	SM.	SIMILAR
BD.	BOARD	INT.	INTERIOR	SM.F.	SMOOTH FACE
BTM.	BOTTOM	JT.	JOINT	SPEC.	SPECIFICATION(S)
B.O.C.	BOTTOM OF CURB			S.P.F.	SPLIT FACE
B.O.F.	BOTTOM OF FOOTING	LAM./LAM	LAMINATED	S.S.T./SS	SQUARE FEET
BRK.	BRICK	LAV.	LAVATORY (SINK)	STD.	STANDARD
BLDG.	BUILDING	L.S.F./LSF	LINOLEUM SHEET FLOORING	STO.	STORAGE
CFT.	CARPET	L.T.F./LTF	LINOLEUM TILE FLOORING	STO.STOR.	STRAIGHT
CLD.	CATCH BASIN	L.P.	LOW POINT	STRUC.	STRUCTURE
C.S.	CELLING	L.V.T./LVT	LUXURY VINYL TILE	SUSP.	SUSPENDED
C.M.TLE/CMT	CERAMIC TILE	MFR.	MANUFACTURER	T.B.	TACKBOARD
CT	CERAMIC TILE	M.B.	MANUFACTURER	TEL.	TELEPHONE
CHBD.	CHAIRBOARD	M.S.	MASONRY	T.V.	TELEVISION
CLR.	CLEAR	MAS.	MASONRY OPENING	TEMP.	TEMPERATURE
COL.	COLUMN	MATL.	MATERIAL	THK.	THICK
CONC.	CONCRETE	MAX.	MAXIMUM	TKD.	TOILET PAPER DISPENSER
C.M.U./CMU	CONCRETE MASONRY UNIT	MECH.	MECHANICAL	T.M.	TYPICAL
CONT.	CONTINUOUS	M.T.	METAL	T.O.M.	TOP OF MASONRY
CONT.	CONTINUOUS JOINT	M.T.	METAL	UNL.	UNLESS NOTED OTHERWISE
CTOP.	COUNTER TOP	M.P./MP	MICHIGAN DEPARTMENT OF TRANSPORTATION	UR.	URNAL
COVRG	COVERING	M.O.T.	MICHIGAN DEPARTMENT OF TRANSPORTATION	V.B.	VAPOR BARRIER
DEPT.	DEPTH	MIN.	MINIMUM	V.E.F.	VENT THROUGH ROOF
DA.	DOOR	MSC.	MISCELLANEOUS	VERT.	VERTICAL
D.O.	DOOR OPENING	N.C.	NOT IN CONTRACT	V.T.L.	VENT THROUGH ROOF
DBL.	DOUBLE	N.S.	NOT TO SCALE	V.V.L./V.VL	VINYL COMPOSITION TILE
DN.	DOWN	NO.	NUMBER	W.C.	WATER CLOSET
D.T.	DRAIN TILE	N.O.	NOT ON CENTER	W.W.F.	WELDED WIRE FABRIC
DWG.	DRAWING	N.L.C.	NOT IN CONTRACT	W.W.M.	WELDED WIRE MESH
D.F.	DRINKING FOUNTAIN	N.T.S.	NOT TO SCALE	W.O.	WINDOW OPENING
EA.	EACH	NO.	NUMBER	W.D.	WOOD
E.W.	EACH WAY	O.C.	ON CENTER	W.MAT/WM	WALKOFF MAT
FN.	FINISHED	OPP.	OPPOSITE (HAND)	W.W.F.	WELDED WIRE FABRIC
ELEC.	ELECTRICAL	O.S.B.	ORIENTED STRAND BOARD	W.O.	WINDOW OPENING
E.H.D.	ELECTRIC HAND DRYER	O.S.B.O.D.	ORIENTED STRAND BOARD		
E.W.C.	ELECTRIC WATER COOLER	O.F.B.L.	OUTSIDE FACE OF BLOCK		
EL.	ELEVATION	O.F.B.R.	OUTSIDE FACE OF BRICK		
ELEV.	ELEVATOR	O.F.C.	OUTSIDE FACE OF CONCRETE		
EQ.	EQUAL	O.F.M.	OUTSIDE FACE OF MASONRY		
EP.	EXHAUST FAN	O.F.S.	OUTSIDE FACE OF STUDS		
EXIST(AE)	EXISTING	PT/P	PAN(T)IE(S)		
EXP.	EXPOSED	PR.	PAPER TOWEL DISPENSER		
EXT.	EXTERIOR	P.T.D.	PARTICLE BOARD		
FT.	FEET	PART. BD.	PARTICLE BOARD		
F.F.	FINISHED FACE	PART.	PARTITION		
FN.	FINISHED	P.H.	PHYSICALLY HANDICAPPED		
F.O.	FINISHED OPENING	PLAS.	PLASTER		
F.E.C.	FIRE EXTINGUISHER CABINET	PLAM/PL	PLASTIC LAMINATE		
F.R.	FIRE RATED	PLYWD.	PLYWOOD		
F.R.T.	FIRE RESISTANT	P.O.N.C.	POINT OF NEW CONNECTION		
F.F.L./FRL	FIBER REINFORCED LAMINATE	P.T.L/PPT	PORCELAIN TILE		
FNT.	FAN	PWR.	POWER		
F.S.F./FSF	FLOODED SHEET FLOORING	P.CONC.	PRECAST CONCRETE		
F.T.F./FTF	FLOODED TILE FLOORING	P.C./PC	POLISHED CONCRETE		
FL.	FLOOR	Q.TILE/QT	QUARRY TILE		
FL.D.	FLOOR DRAIN	QZ.	QUARTZ		
FLG.	FLOORING				

LEGEND OF ABBREVIATIONS

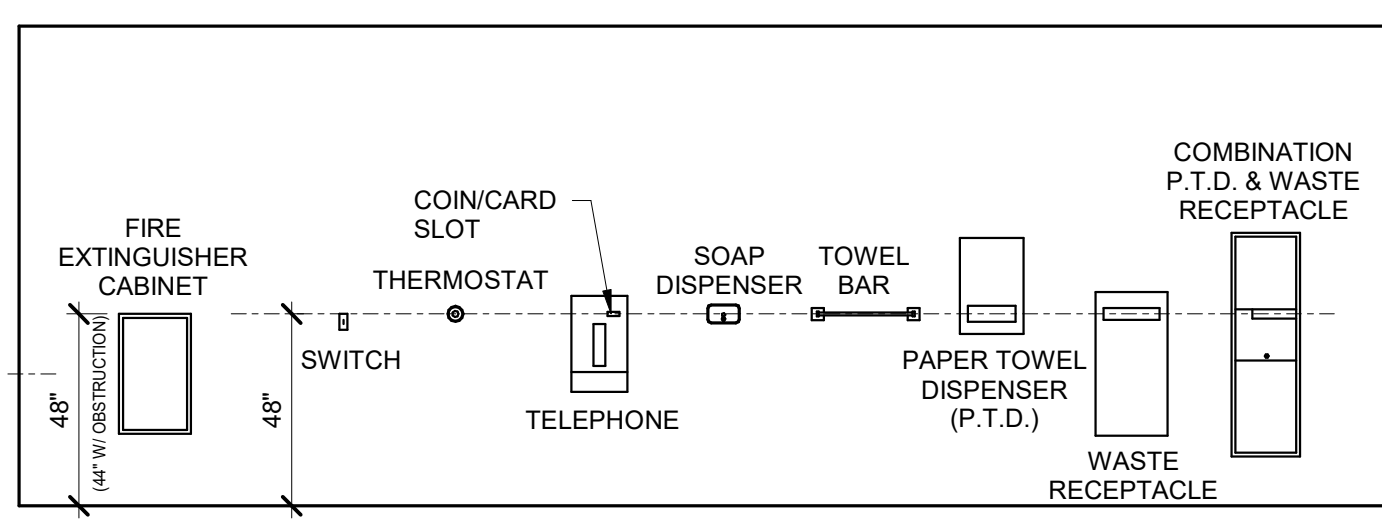
ROOM IDENTIFIER:	REFERENCE BUBBLES:	ROOM FINISH TAG:
ROOM NAME A100A	1 - LOCATION NUMBER A1.01 - SHEET NUMBER	ROOM NAME NO. BASE FLOOR WALL REMARK
OPTIONAL LETTER ROOM NUMBER GRADE CLUSTER UNIT LETTER	7 - DETAIL MARK A7.07	NO. = ROOM NUMBER BASE = BASE MAT'L FLOOR = FLOOR MAT'L REMARK = REFER TO FINISH PLAN REMARKS
DOOR/OPENING IDENTIFIER:	5 - BUILDING SECTION A5.05	
DOOR/OPENING NUM. ROOM NUMBER GRADE CLUSTER UNIT LETTER	2 - ENLARGED DETAIL OR PLAN A2.02	
KEYED NOTES:		
1 - MATERIAL KEYNOTE (HEXAGON w/ NUMBER)		ADDITIONAL IDENTIFIERS:
A - PLUMBING OR EQUIPMENT (HEXAGON w/ LETTER)		F2 - DOOR FRAME TYPE (OVAL w/ "F" AND NUMBER)
1 - PLAN KEYNOTE (SQUARE w/ NUMBER)		D2 - DOOR TYPE (OVAL w/ "D" AND NUMBER)
A - SITE PLAN KEYNOTE (SQUARE w/ LETTER)		W2 - WINDOW TYPE (OVAL w/ "W" AND NUMBER)
R1 - ROOF PLAN KEYNOTE (SQUARE w/ "R" AND NUMBER)		2-1 - WALL TYPE (DIAMOND w/ NUMBER)
1 - PLAN DEMOLITION KEYNOTE (TRIANGLE w/ NUMBER)		# - ADDENDUM IDENTIFIER (RHOMBUS w/ NUMBER)
A - SITE DEMOLITION KEYNOTE (TRIANGLE w/ LETTER)		# - BULLETIN IDENTIFIER (RHOMBUS w/ NUMBER)
TEXT-X - FLOORING/FINISH KEYNOTE (RECTANGLE w/ TEXT)		# - CHANGE ORDER IDENTIFIER (RHOMBUS w/ NUMBER)
DEMOLITION IDENTIFIER:		INTERIOR ELEVATION IDENTIFIER:
--- ITEM TO BE REMOVED		8/A8.08 - SHEET NUMBER LOCATION NUMBER
ALTERATION CLOUD:		ALTERATION IDENTIFIER:
INDICATES A CHANGE TO THE CONSTRUCTION DOCUMENTS VIA ADDENDUM, BULLETIN, AND CHANGE ORDER		ALTERNATE NO. 2
MATCHLINE:		
MATCH LINE		

ARCHITECTURAL SYMBOL LEGEND



STANDARD MOUNTING HEIGHT DETAIL

18/A0.01 SCALE: 1/4" = 1'-0"



WALL TYPES:
NOTE: REFER TO CODE PLAN FOR FIRE RATED WALL LOCATIONS. PROVIDE FIRE CAULKING AT ALL RATED WALL LOCATIONS
1.0 5/8" TYPE "X" GYPSUM BOARD ON BOTH SIDES OF METAL STUDS (SIZED & SPACED AS REQUIRED) w/ SOUND ATTENUATION BLANKETS. EXTEND FROM FINISH FLOOR TO UNDERSIDE OF STRUCTURE ABOVE.
1.1 SAME AS TYPE 1.0 EXCEPT 5/8" IMPACT RESISTANT GYPSUM BOARD ON BOTH SIDES OF METAL STUDS. EXTEND TO UNDERSIDE OF STRUCTURE ABOVE.
1.2 SAME AS TYPE 1.0 EXCEPT 5/8" IMPACT RESISTANT GYPSUM BOARD ON BOTH SIDES OF METAL STUDS. EXTEND TO 6" ABOVE CEILING AND BRACE AS REQUIRED (REFER TO STRUCTURAL)
2.0 8" CONCRETE MASONRY. EXTEND FROM FINISH FLOOR TO UNDERSIDE OF STRUCTURE ABOVE.
2.1 SAME TYPE AS 2.1 EXCEPT 12" CONCRETE MASONRY. EXTEND FROM FINISH FLOOR TO TOP OF OPENING. 11 5/8" ACT. 12" NOM.
3.0 12" CONCRETE MASONRY WITH DIRECT APPLIED IMPACT RESISTANT GYPSUM BOARD ON ONE SIDE AS REQUIRED TO INFILL OPENING.
4.0 5/8" IMPACT RESISTANT GYPSUM BOARD ON ONE SIDE OF 6" METAL STUD. EXTEND FROM FINISH FLOOR TO 6" ABOVE THE CEILING.
4.1 SAME TYPE AS 4.0 EXCEPT EXTEND FROM FINISH FLOOR TO 2'-0" A.F.F.

NO.	REVISION	DATE

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BAY CITY, MICHIGAN

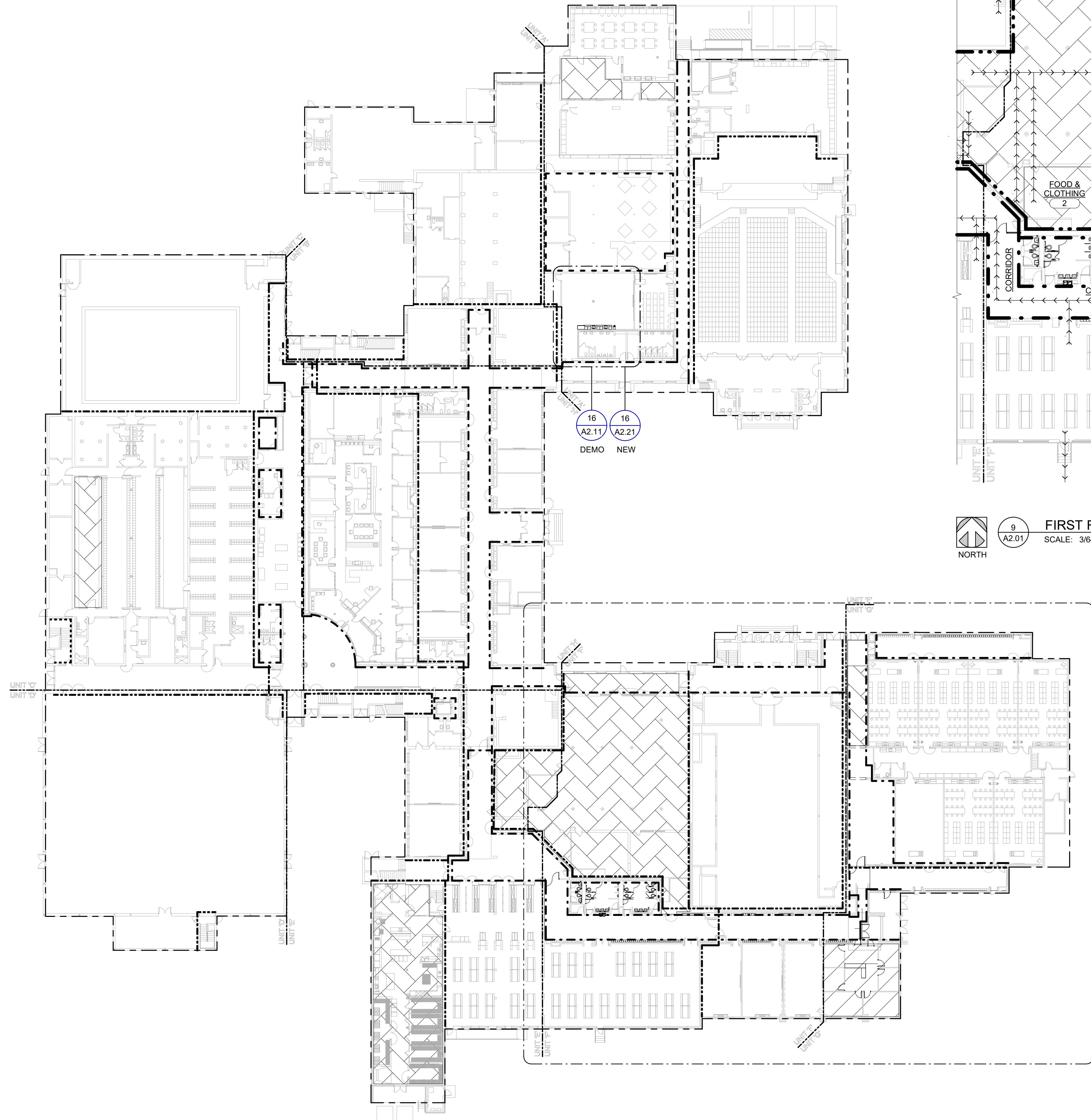
SHEET TITLE
PROJECT INFORMATION

PROJECT NUMBER
2018040.16

PROJECT DATE
FEBRUARY 1, 2024

CHECKED BY
J.A.R.

SHEET NUMBER
A0.01

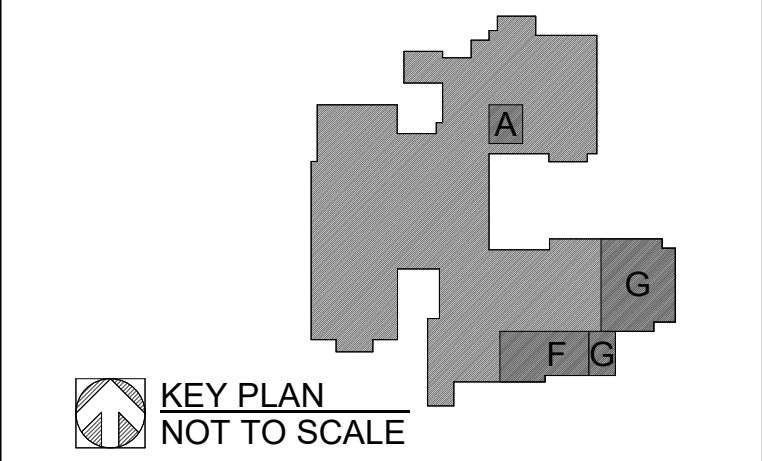


9 A2.01 FIRST FLOOR ENLARGED CODE PLAN
SCALE: 3/64" = 1'-0"

16 A2.01 FIRST FLOOR MASTER CODE PLAN
SCALE: 1" = 30'-0"

CODE LEGEND	
	2 HOUR FIRE WALL
	2 HOUR FIRE BARRIER
	1 HOUR FIRE PARTITION
	1 HOUR FIRE ENCLOSURE
	TRAVEL PATH
	EXIT CAPACITY
	OCCUPANT LOAD
	SUITE
	PROJECT AREA IS SPRINKLED LOCATIONS
	EXISTING FIRE EXTINGUISHER CABINET
	EXISTING FIRE EXTINGUISHER (SURFACE MOUNTED)

NO.	REVISION	DATE



KEY PLAN
NOT TO SCALE

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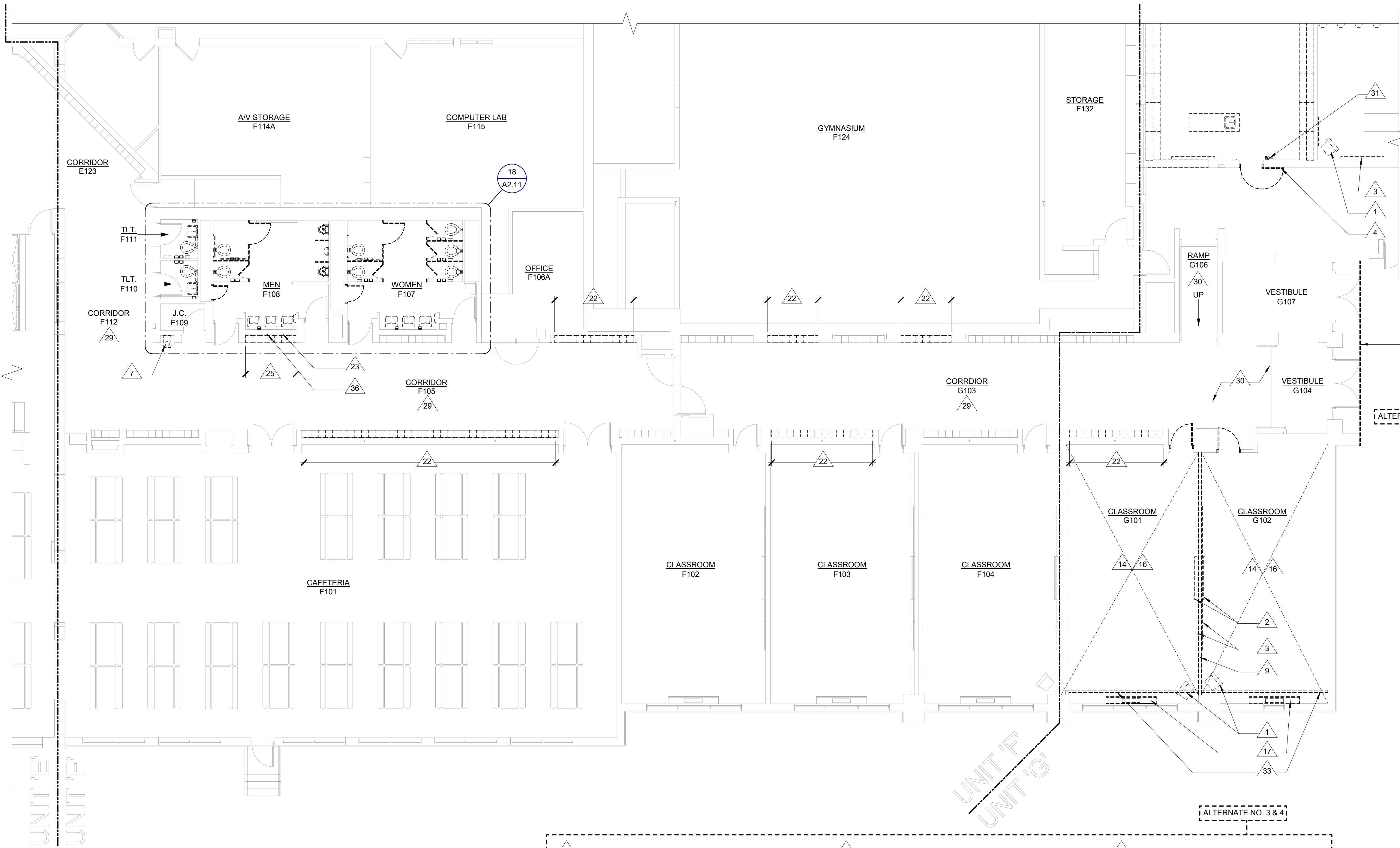
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BAY CITY, MICHIGAN

SHEET TITLE
FIRST FLOOR MASTER & ENLARGED CODE PLAN

PROJECT NUMBER 2018040.16	SHEET NUMBER A2.01
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY J.A.R.	

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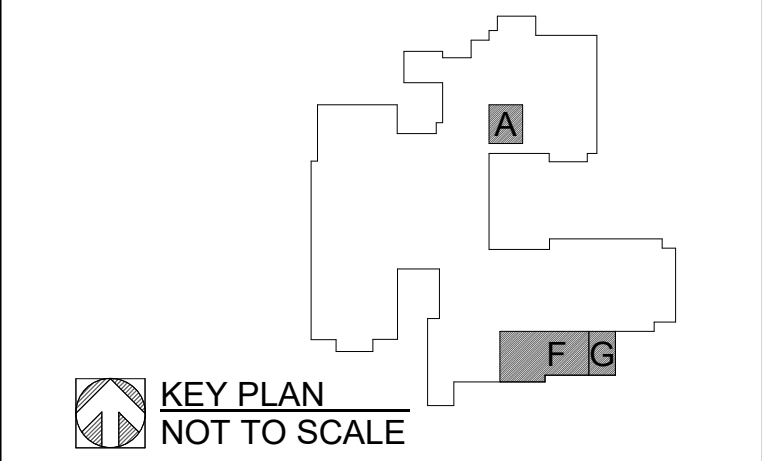
DEMOLITION KEYNOTES

- 1 REMOVE AND SALVAGE EXISTING TELEVISION - RETURN TO OWNER
- 2 REMOVE AND SALVAGE EXISTING WHITE BOARD - RETURN TO OWNER
- 3 REMOVE AND SALVAGE EXISTING PROJECTOR SCREEN - RETURN TO OWNER
- 4 REMOVE EXISTING DOOR, FRAME, AND ALL ASSOCIATED HARDWARE
- 5 REMOVE EXISTING WALL CONSTRUCTION FOR NEW OPENING (REFER TO CONSTRUCTION PLAN)
- 6 REMOVE EXISTING CASEWORK ENTIRELY
- 7 REMOVE EXISTING PLUMBING FIXTURE (REFER TO MECHANICAL)
- 8 REMOVE AND SALVAGE EXISTING MODULAR FURNITURE - RETURN TO OWNER
- 9 REMOVE EXISTING WALL CONSTRUCTION FROM FINISH FLOOR TO STRUCTURE ABOVE
- 10 EXISTING CARRELS TO BE REMOVED AND RELOCATED BY OWNER
- 11 REMOVE EXISTING 24x36 MIRROR
- 12 REMOVE EXISTING TOILET PARTITION AND ASSOCIATED HARDWARE
- 13 REMOVE EXISTING GRAB BARS
- 14 REMOVE EXISTING CEILING TILE AND GRID
- 15 REMOVE AND SALVAGE EXISTING CASEWORK AND PLUMBING FIXTURES FOR RELOCATION
- 16 REMOVE AND SALVAGE EXISTING CEILING MOUNTED PROJECTOR - RETURN TO OWNER
- 17 REMOVE EXISTING UNIT VENTILATOR TO BE REMOVED (REFER TO MECHANICAL)
- 18 REMOVE EXISTING TOILET PAPER DISPENSER - RETURN TO OWNER
- 19 REMOVE EXISTING SANITARY NAPKIN DISPOSAL
- 20 REMOVE EXISTING SOAP DISPENSER - RETURN TO OWNER
- 21 REMOVE EXISTING PAPER TOWEL DISPENSER - RETURN TO OWNER
- 22 REMOVE EXISTING RED LOCKERS. TO BE RELOCATED.
- 23 REMOVE PORTION OF EXISTING WALL CONSTRUCTION AS REQUIRED FOR NEW PLUMBING (REFER TO MECHANICAL)
- 24 REMOVE EXISTING WALL CONSTRUCTION TO 1 INCH BELOW EXISTING CEILING (REFER TO CEILING PLAN)
- 25 REMOVE EXISTING LOCKERS (BASE BID)
- 26 REMOVE AND RE-INSTALL EXISTING FACE OF FLUTED METAL PANEL SOFFIT AND METAL SOFFIT AS REQUIRED FOR INSTALLING THE NEW AWNING (REFER TO STRUCTURAL).
- 27 REMOVE EXISTING CARPET AND ADHESIVE.
- 28 REMOVE EXISTING WALL BASE.
- 29 REMOVE EXISTING RESILIENT WALL BASE IN CORRIDOR. VERIFY LOCATIONS IN FIELD.
- 30 REMOVE EXISTING RED TILE (REFER TO FINISH PLANS)
- 31 REMOVE AND SALVAGE EXISTING SURFACE MOUNTED FIRE EXTINGUISHER
- 32 REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR PLUMBING
- 33 REMOVE EXISTING SUSPENDED GYPSUM BOARD WINDOW HEADER (REFER TO CEILING PLAN FOR NEW HEADER INSTALLATION)
- 34 REMOVE AND SALVAGE DISPENSER - RETURN TO OWNER
- 35 SAWCUT BULLNOSE ON EXISTING WALL TO WITH ALIGN NEW WALL.
- 36 GRIND OUT INTERGRAL TERRAZZO BASE AND CONCRETE LOCKER BASE

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL SHORING, TEMPORARY SUPPORTS, AND BRACING REQUIRED FOR THE SAFE DEMOLITION AND ERECTION OF STRUCTURAL COMPONENTS.
2. THE OWNER HAS FIRST SALVAGEABLE RIGHTS TO ALL ITEMS AND EQUIPMENT THAT ARE BEING DEMOLISHED. THE DEMOLITION CONTRACTOR SHALL VERIFY W/ THE OWNER WHICH ITEMS THEY WISH TO KEEP PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK. THESE SALVAGED ITEMS ARE TO BE REMOVED IN GOOD CONDITION, AND TURNED OVER TO THE OWNER.
3. ALL BUILDING MATERIAL BEING DEMOLISHED IS TO BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTED OTHERWISE AND EXCLUDING THOSE ITEMS SALVAGED BY THE OWNER.
4. PROTECT ADJACENT MEMBERS, FINISHES AND SURFACES FROM DAMAGE DURING DEMOLITION WORK. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE W/ ADJACENT STRUCTURAL MEMBERS, BUILDING AREAS, AND PUBLIC AND PRIVATE THOROUGHFARES. MAINTAIN PROTECTED EGRESS AND ACCESS AT ALL TIMES.
5. PRIOR TO BEGINNING ANY DEMOLITION WORK PROVIDE TEMPORARY BARRIERS AS REQUIRED TO PREVENT MIGRATION OF DUST AND NOISE INTO ADJACENT AREAS. TO PREVENT UNAUTHORIZED ACCESS INTO THE WORK AREA, AND TO PROTECT THE GENERAL PUBLIC.
6. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.

NO.	REVISION	DATE



KEY PLAN
NOT TO SCALE

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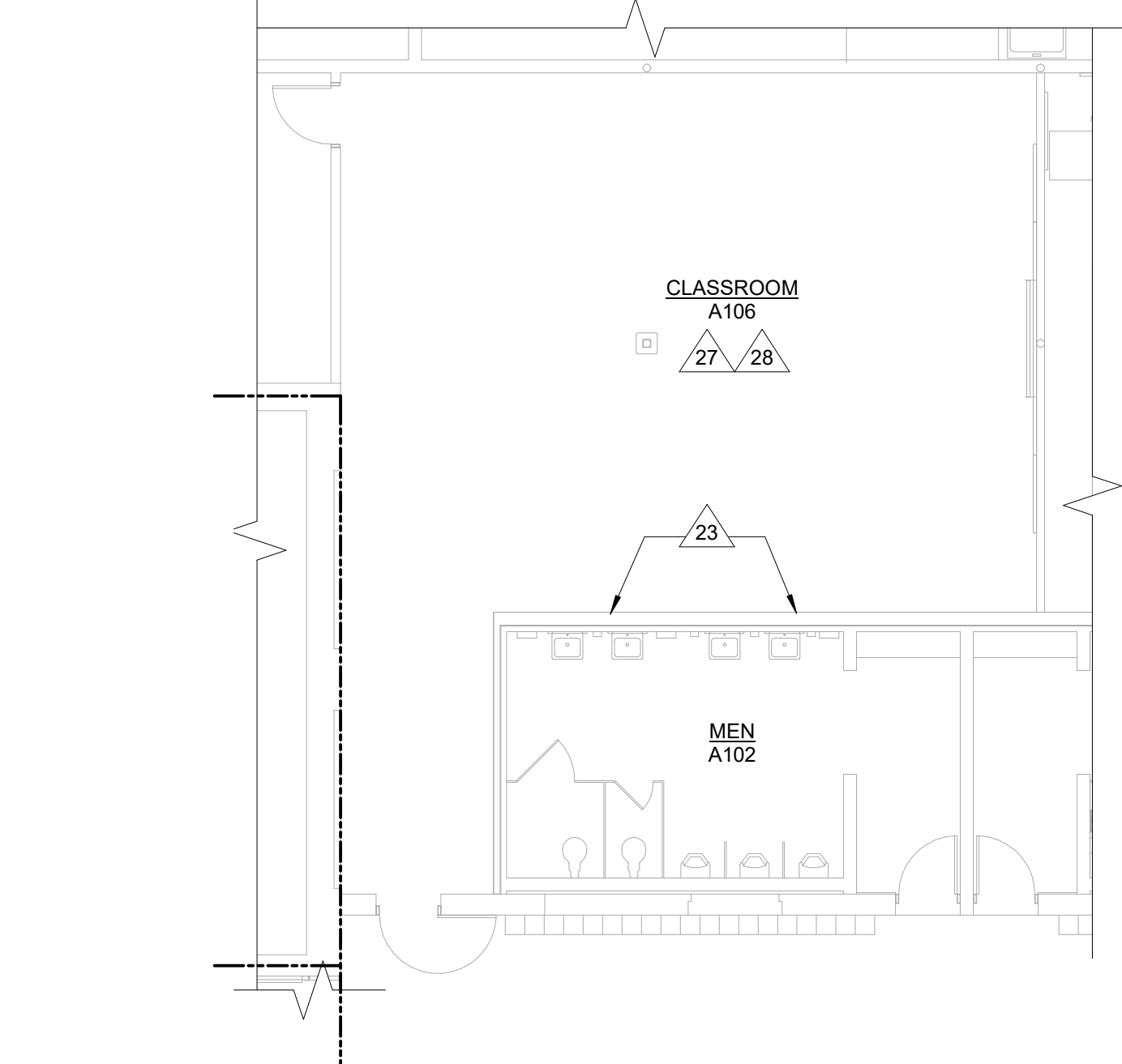
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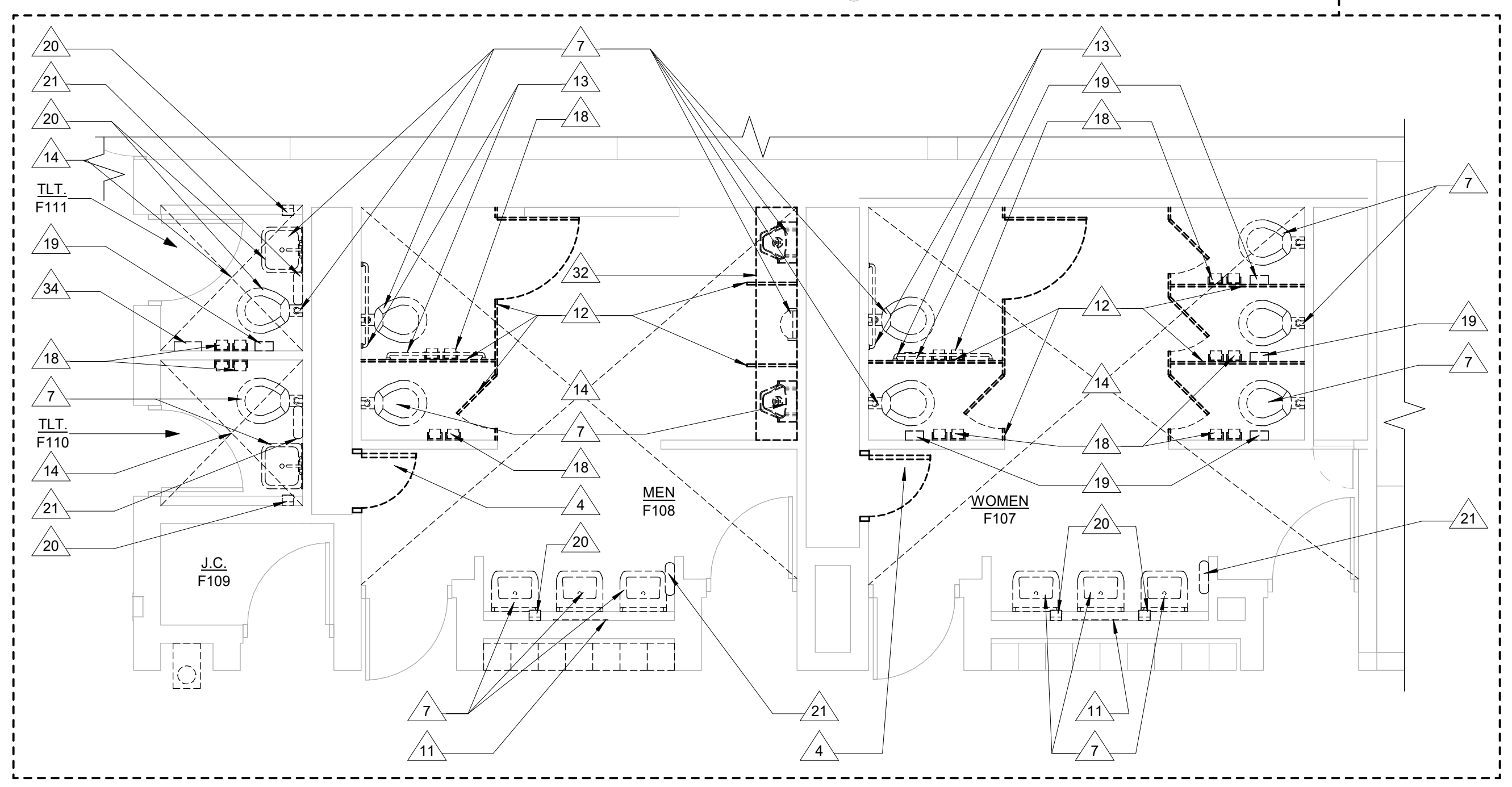
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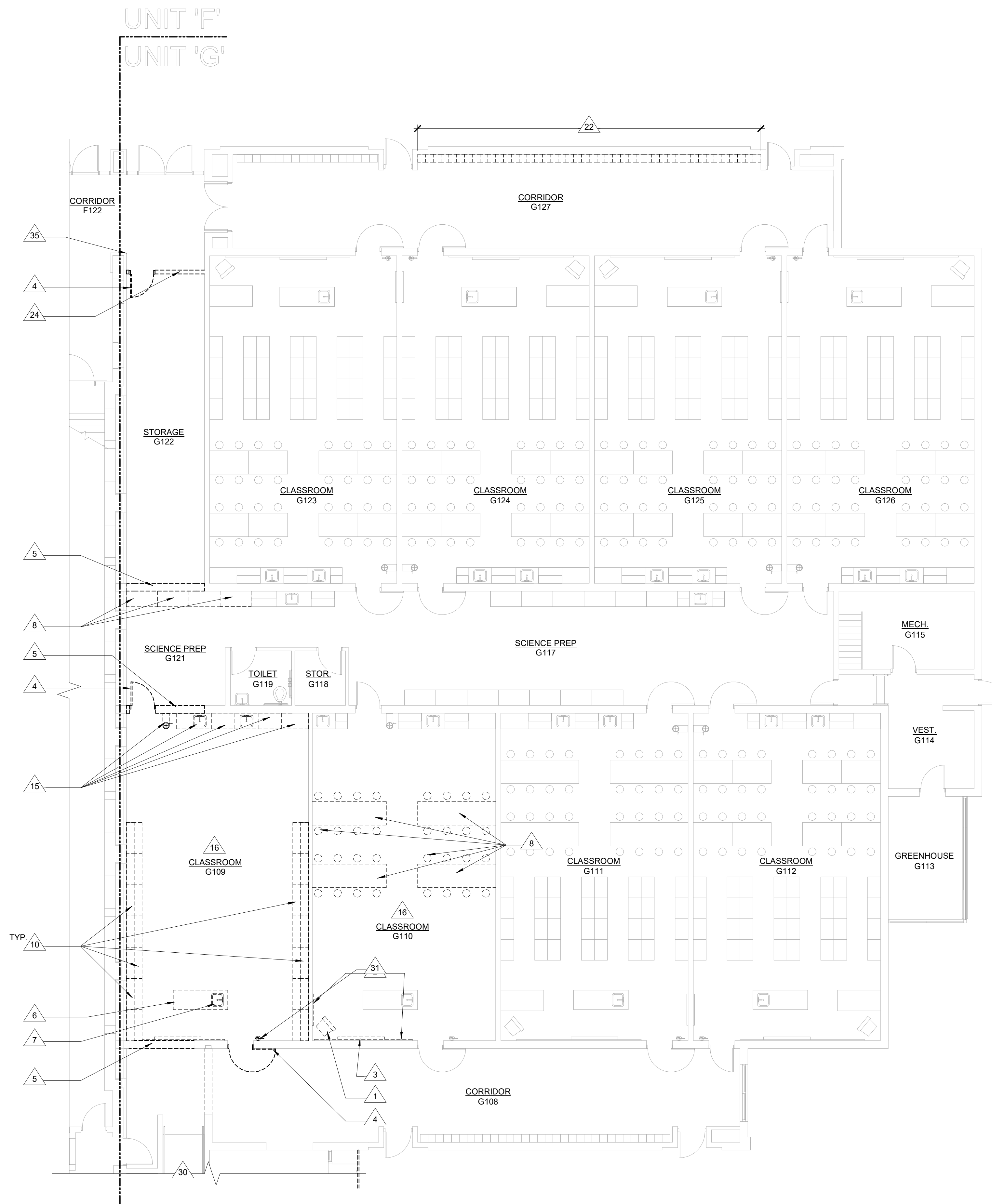
11 FIRST FLOOR DEMOLITION PLAN - UNIT 'F' & 'G'
SCALE: 1/8" = 1'-0"



16 FIRST FLOOR DEMOLITION PLAN - UNIT 'A'
SCALE: 1/8" = 1'-0"



18 ENLARGED DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



17
A2.12

FIRST FLOOR DEMOLITION PLAN - UNIT 'G'
SCALE: 1/8" = 1'-0"

DEMOLITION KEYNOTES

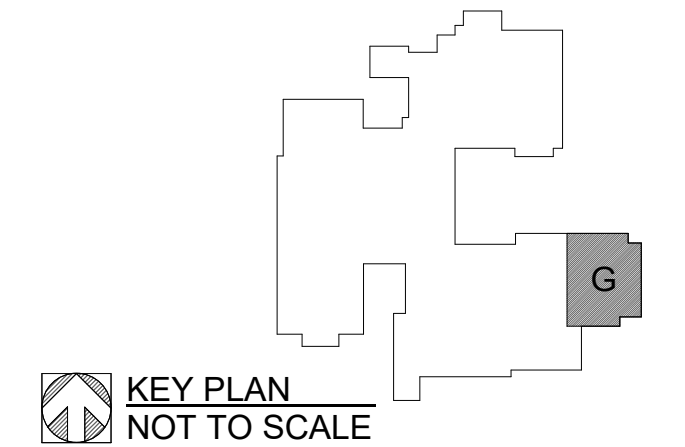
- 1 REMOVE AND SALVAGE EXISTING TELEVISION - RETURN TO OWNER
- 2 REMOVE AND SALVAGE EXISTING WHITE BOARD - RETURN TO OWNER
- 3 REMOVE AND SALVAGE EXISTING PROJECTOR SCREEN - RETURN TO OWNER
- 4 REMOVE EXISTING DOOR, FRAME, AND ALL ASSOCIATED HARDWARE
- 5 REMOVE EXISTING WALL CONSTRUCTION FOR NEW OPENING (REFER TO CONSTRUCTION PLAN)
- 6 REMOVE EXISTING CASEWORK ENTIRELY
- 7 REMOVE EXISTING PLUMBING FIXTURE (REFER TO MECHANICAL)
- 8 REMOVE AND SALVAGE EXISTING MODULAR FURNITURE - RETURN TO OWNER
- 9 REMOVE EXISTING WALL CONSTRUCTION FROM FINISH FLOOR TO STRUCTURE ABOVE
- 10 EXISTING CARRELS TO BE REMOVED AND RELOCATED BY OWNER
- 11 REMOVE EXISTING 24x36 MIRROR
- 12 REMOVE EXISTING TOILET PARTITION AND ASSOCIATED HARDWARE
- 13 REMOVE EXISTING GRAB BARS
- 14 REMOVE EXISTING CEILING TILE AND GRID
- 15 REMOVE AND SALVAGE EXISTING CASEWORK AND PLUMBING FIXTURES FOR RELOCATION
- 16 REMOVE AND SALVAGE EXISTING CEILING MOUNTED PROJECTOR - RETURN TO OWNER
- 17 REMOVE EXISTING UNIT VENTILATOR TO BE REMOVED (REFER TO MECHANICAL)
- 18 REMOVE EXISTING TOILET PAPER DISPENSER - RETURN TO OWNER
- 19 REMOVE EXISTING SANITARY NAPKIN DISPOSAL
- 20 REMOVE EXISTING SOAP DISPENSER - RETURN TO OWNER
- 21 REMOVE EXISTING PAPER TOWEL DISPENSER - RETURN TO OWNER
- 22 REMOVE EXISTING RED LOCKERS. TO BE RELOCATED
- 23 REMOVE PORTION OF EXISTING WALL CONSTRUCTION AS REQUIRED FOR NEW PLUMBING (REFER TO MECHANICAL)
- 24 REMOVE EXISTING WALL CONSTRUCTION TO 1 INCH BELOW EXISTING CEILING (REFER TO CEILING PLAN)
- 25 REMOVE EXISTING LOCKERS (BASE BID)
- 26 REMOVE AND RE-INSTALL EXISTING FACE OF FLUTED METAL PANEL SOFFIT AND METAL SOFFIT AS REQUIRED FOR INSTALLING THE NEW AWNING (REFER TO STRUCTURAL).
- 27 REMOVE EXISTING CARPET AND ADHESIVE.
- 28 REMOVE EXISTING WALL BASE.
- 29 REMOVE EXISTING RESILIENT WALL BASE IN CORRIDOR. VERIFY LOCATIONS IN FIELD.
- 30 REMOVE EXISTING RED TILE (REFER TO FINISH PLANS)
- 31 REMOVE AND SALVAGE EXISTING SURFACE MOUNTED FIRE EXTINGUISHER
- 32 REMOVE EXISTING CONCRETE SLAB AS REQUIRED FOR PLUMBING
- 33 REMOVE EXISTING SUSPENDED GYPSUM BOARD WINDOW HEADER (REFER TO CEILING PLAN FOR NEW HEADER INSTALLATION)
- 34 REMOVE AND SALVAGE DISPENSER - RETURN TO OWNER
- 35 SAWCUT BULLNOSE ON EXISTING WALL TO WITH ALIGN NEW WALL.
- 36 GRIND OUT INTERGRAL TERRAZZO BASE AND CONCRETE LOCKER BASE

ALTERNATE NO. 2

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL SHORING, TEMPORARY SUPPORTS, AND BRACING REQUIRED FOR THE SAFE DEMOLITION AND ERECTION OF STRUCTURAL COMPONENTS.
2. THE OWNER HAS FIRST SALVAGEABLE RIGHTS TO ALL ITEMS AND EQUIPMENT THAT ARE BEING DEMOLISHED. THE DEMOLITION CONTRACTOR SHALL VERIFY w/ THE OWNER WHICH ITEMS THEY WISH TO KEEP PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION WORK. THESE SALVAGED ITEMS ARE TO BE REMOVED IN GOOD CONDITION, AND TURNED OVER TO THE OWNER.
3. ALL BUILDING MATERIAL BEING DEMOLISHED IS TO BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTED OTHERWISE AND EXCLUDING THOSE ITEMS SALVAGED BY THE OWNER.
4. PROTECT ADJACENT MEMBERS, FINISHES AND SURFACES FROM DAMAGE DURING DEMOLITION WORK. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE w/ ADJACENT STRUCTURAL MEMBERS, BUILDING AREAS, AND PUBLIC AND PRIVATE THOROUGHFARES. MAINTAIN PROTECTED EGRESS AND ACCESS AT ALL TIMES.
5. PRIOR TO BEGINNING ANY DEMOLITION WORK PROVIDE TEMPORARY BARRIERS AS REQUIRED TO PREVENT MIGRATION OF DUST AND NOISE INTO ADJACENT AREAS. TO PREVENT UNAUTHORIZED ACCESS INTO THE WORK AREA, AND TO PROTECT THE GENERAL PUBLIC.
6. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK.

NO.	REVISION	DATE



KEY PLAN
NOT TO SCALE



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PROJECT TITLE
RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN

SHEET TITLE
FIRST FLOOR DEMOLITION PLAN - UNIT 'G'

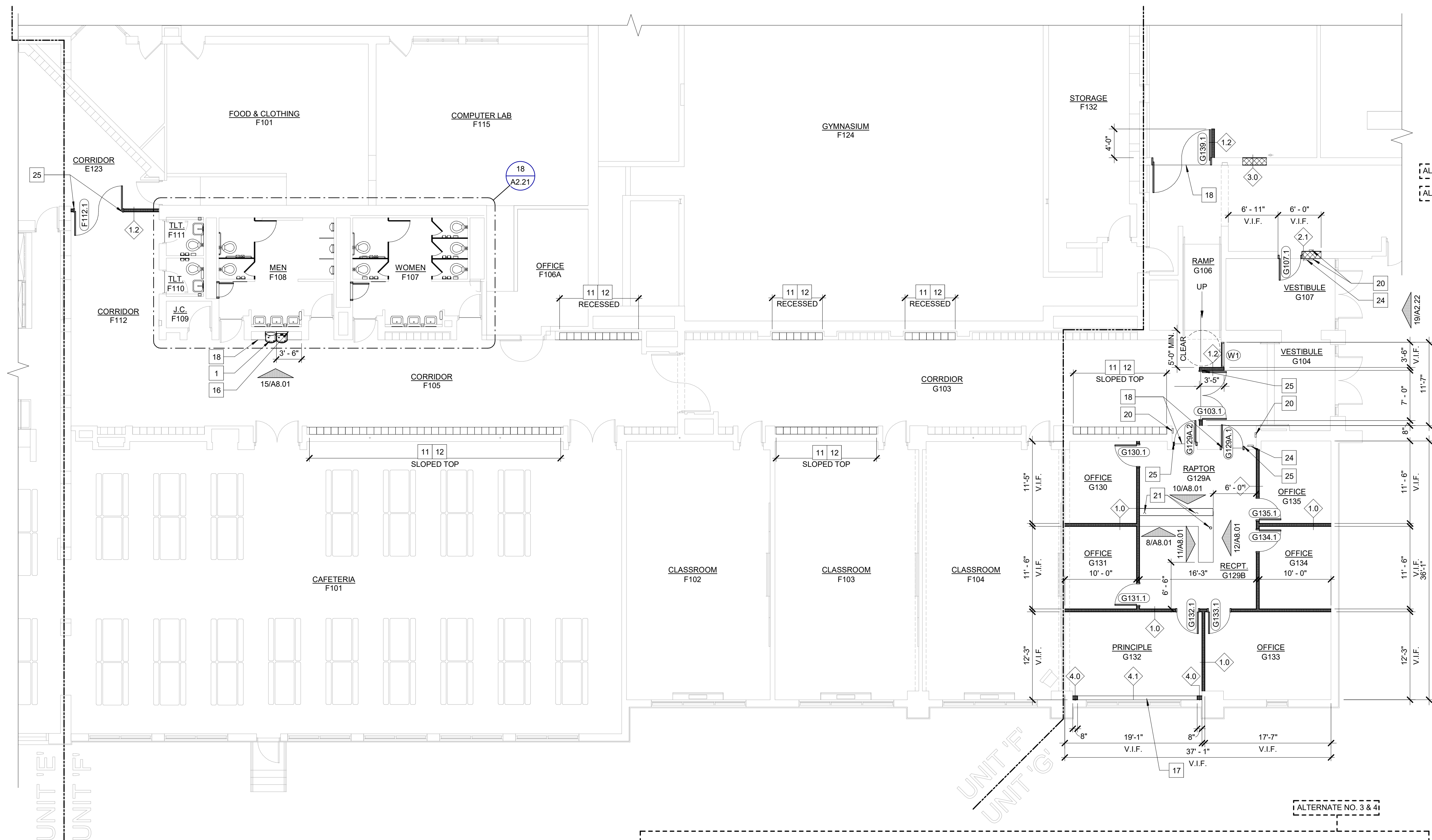
PROJECT NUMBER
2018040.16

PROJECT DATE
FEBRUARY 1, 2024

CHECKED BY
J.A.R.

SHEET NUMBER

A2.12



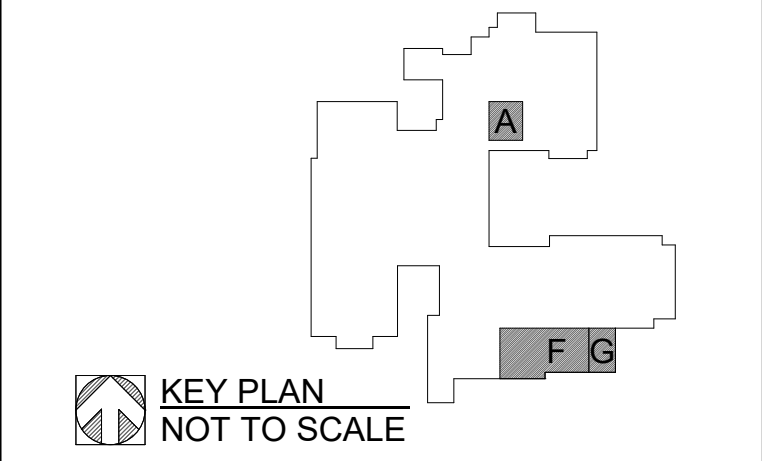
PLAN KEYNOTES

- 1 NEW PLUMBING FIXTURE (REFER TO MECHANICAL)
- 2 NEW 18x36 MIRROR, 3'-8" A.F.F.
- 3 NEW SOAP DISPENSER - BY OWNER
- 4 NEW PAPER TOWEL DISPENSER - BY OWNER
- 5 NEW TOILET PARTITION (REFER TO SPECIFICATIONS)
- 6 NEW STAINLESS STEEL GRAB BARS
- 7 NEW TOILET PAPER DISPENSER - BY OWNER
- 8 NEW SANITARY NAPKIN DISPOSAL
- 9 RELOCATED EXISTING CASEWORK AND PLUMBING FIXTURES SALVAGED FROM DEMOLITION
- 10 NEW 24x72 MIRROR, 1'-0" A.F.F.
- 11 NEW BEIGE LOCKERS
- 12 PREP AND PAINT EXISTING RED LOCKERS TO MATCH ADJACENT BEIGE LOCKERS (P-4)
- 13 NEW 18x36 MIRROR (REFER TO STANDARD MOUNTING HEIGHTS DETAIL)
- 14 PATCH AND REPAIR EXISTING WALL CONSTRUCTION AT REMOVAL OF ALL EXISTING PLUMBING FIXTURES TO MATCH ADJACENT SURFACE (REFER TO MECHANICAL)
- 15 PATCH AND REPAIR EXISTING WALL CONSTRUCTION AT REMOVAL OF EXISTING PLUMBING FIXTURES AND CASEWORK TO MATCH ADJACENT SURFACE
- 16 PATCH AND REPAIR EXISTING WALL CONSTRUCTION AT REMOVAL OF EXISTING LOCKERS TO MATCH ADJACENT SURFACE
- 17 MECHANICAL CHASE 4" CLEARANCE REQUIRED, 2'-0" TALL - VERIFY IN FIELD (REFER TO MECHANICAL)
- 18 NEW TRANSITION STRIP
- 19 PATCH AND REPAIR CONCRETE SLAB AS REQUIRED
- 20 NEW ADA PUSH PAD - PATCH AND REPAIR EXISTING WALL CONSTRUCTION AS REQUIRED FOR INSTALLATION (REFER TO ELECTRICAL)
- 21 <varies>
- 22 SAWCUT BULLNOSE ON EXISTING WALL TO WITH ALIGN NEW WALL
- 23 TOUCH UP EXISTING PAINT AS REQUIRED AFTER PLUMBING INSTALLATION
- 24 NEW INTERCOM, CAMERA, AND BUTTON ACCESS - PATCH AND REPAIR EXISTING WALL CONSTRUCTION AS REQUIRED FOR INSTALLATION (REFER TO ELECTRICAL)
- 25 NEW FOB ACCESS INTERGRATED INTO DOOR FRAME

GENERAL PLAN NOTES:

1. WALL TYPES ARE INDICATED AS A DIAMOND WITH A NUMBER. REFER TO SHEET A0.01 FOR DESCRIPTION OF WALL TYPES.
2. PLAN DIMENSIONS DO NOT INCLUDE WALL THICKNESS (REFER TO WALL TYPES ON SHEET A0.01).
3. DOOR FRAMES ARE TO BE LOCATED 4" FROM THE PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR AT GYPSUM WALL LOCATIONS AND 8" AT MASONRY WALLS UNLESS NOTED OTHERWISE.
4. PROVIDE BLOCKING AT ALL WALL MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO: PLUMBING ACCESSORIES, MONITORS, EQUIPMENT, ETC.
5. ALL AREAS DAMAGED BY DEMOLITION WORK ARE TO BE PATCHED AND REPAIRED OR REPLACED TO MATCH ADJACENT SURFACES.
6. PATCH AND REPAIR REMAINING WALLS; AT ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION POINTS WITH SIMILAR MATERIALS IN SIZE, COLOR AND TEXTURE.
7. PATCH AND REPAIR ALL EXISTING FLOORS AS REQUIRED WHERE EXISTING WALLS HAVE BEEN REMOVED.
8. FURNITURE OR EQUIPMENT TO BE BUILT AND/OR INSTALLED BY CONTRACTOR IS SPECIFICALLY NOTED, DIMENSIONED OR DETAILED. ALL OTHER FURNITURE OR EQUIPMENT WILL BE PROVIDED AND INSTALLED BY OWNER.

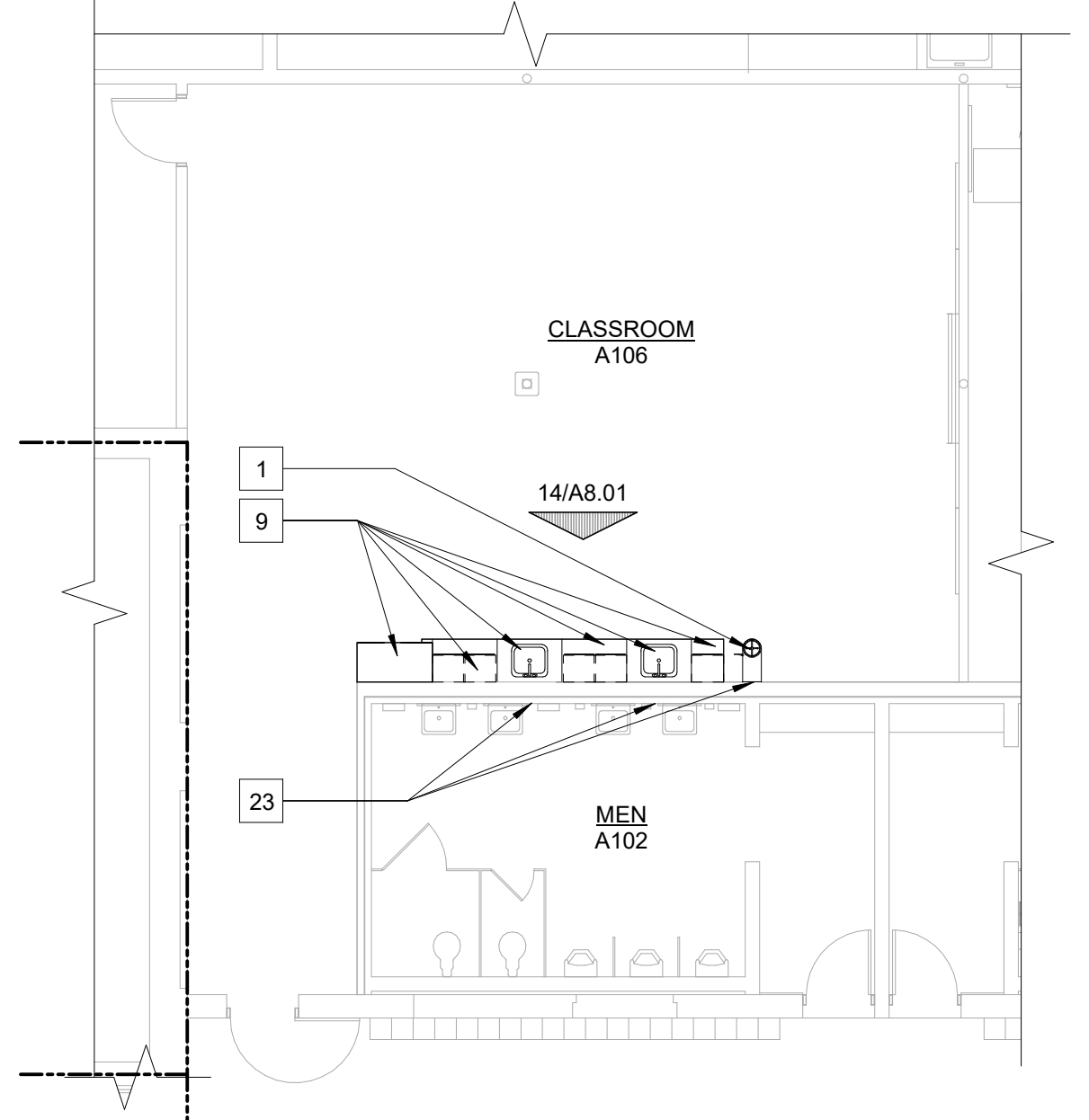
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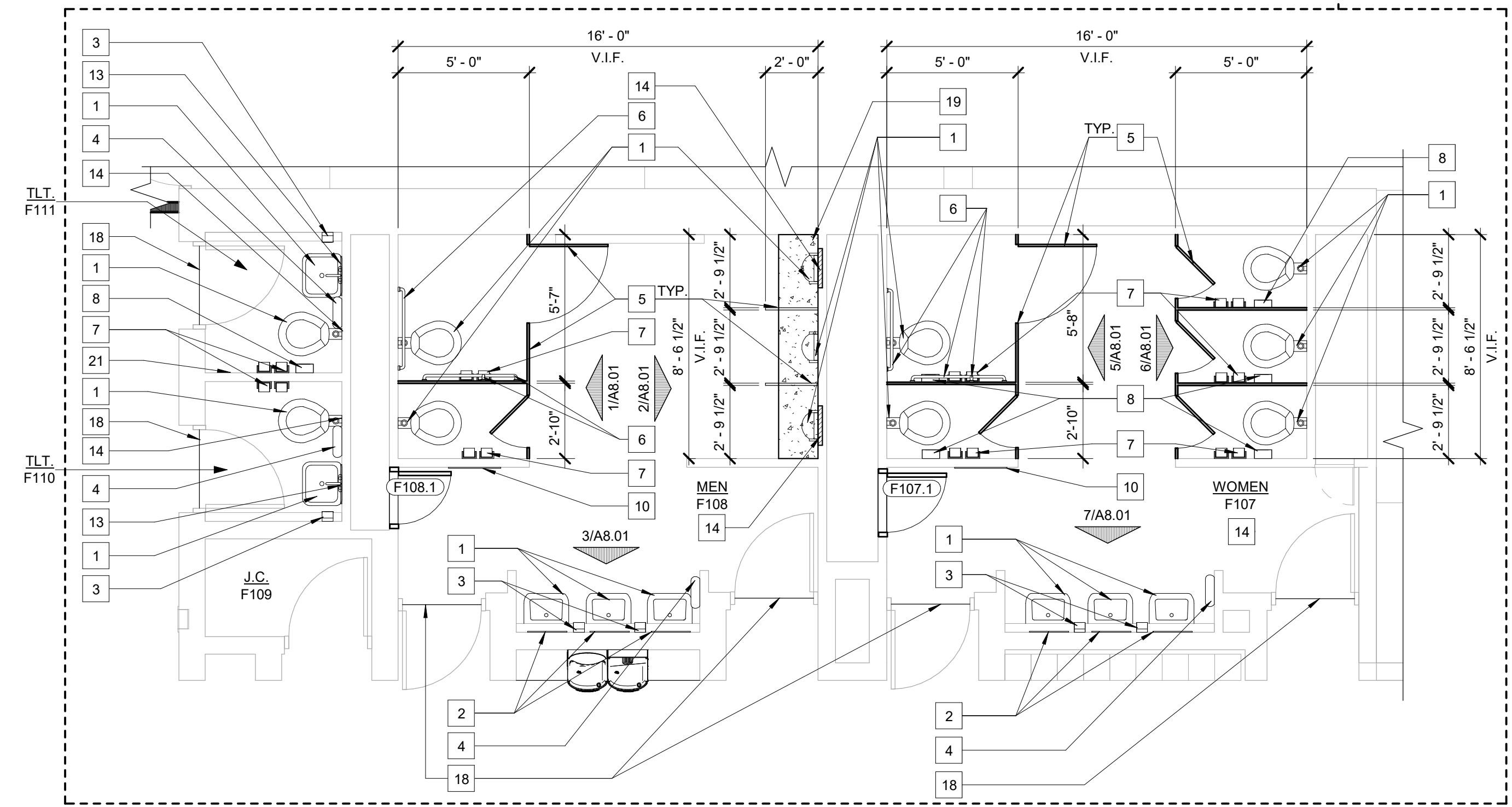
KEY PLAN
NOT TO SCALE

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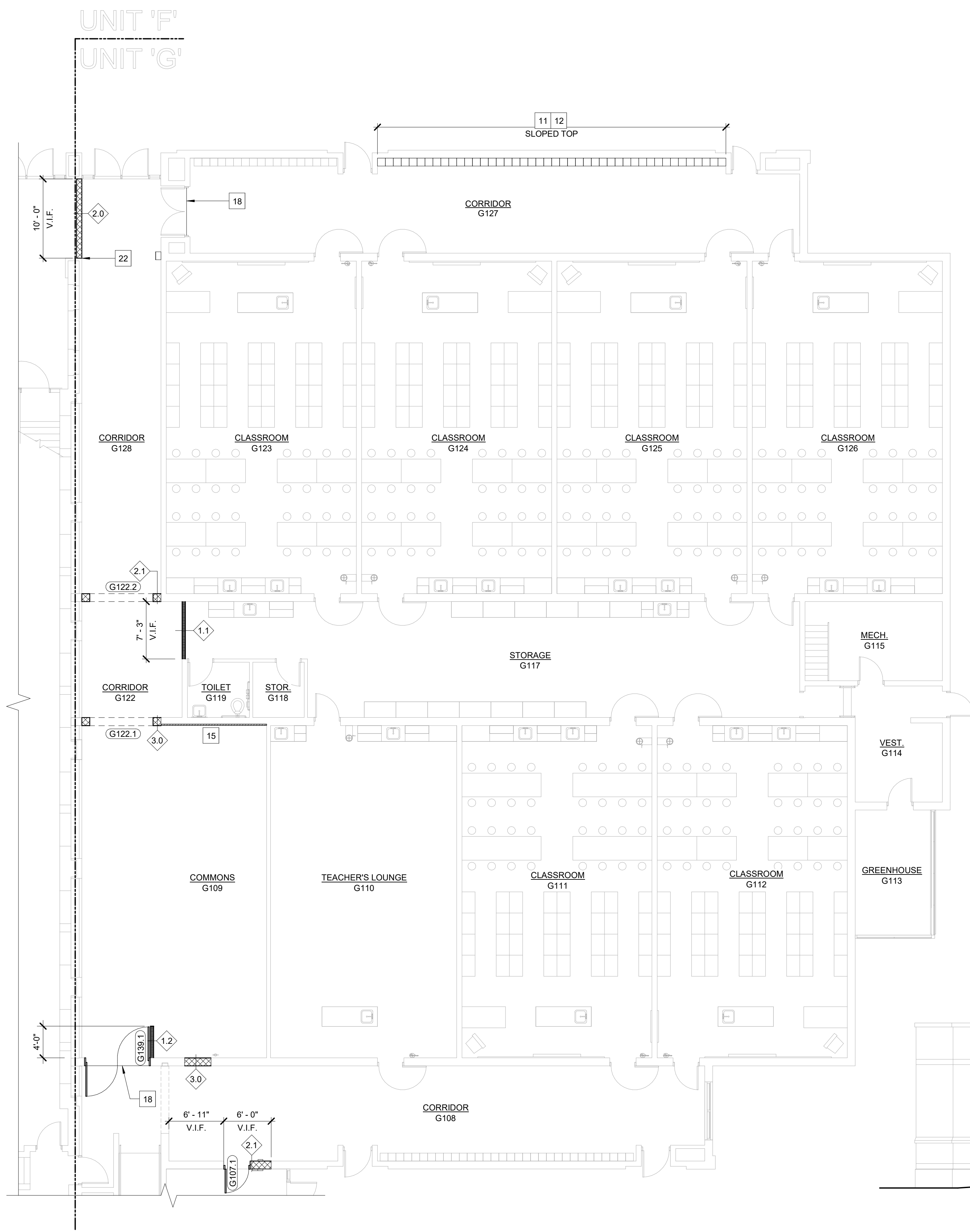
11 FIRST FLOOR CONSTRUCTION PLAN - UNIT 'F' & 'G'
SCALE: 1/8" = 1'-0"



16 FIRST FLOOR CONSTRUCTION PLAN - UNIT 'A'
SCALE: 1/8" = 1'-0"



18 ENLARGED CONSTRUCTION PLAN
SCALE: 1/4" = 1'-0"



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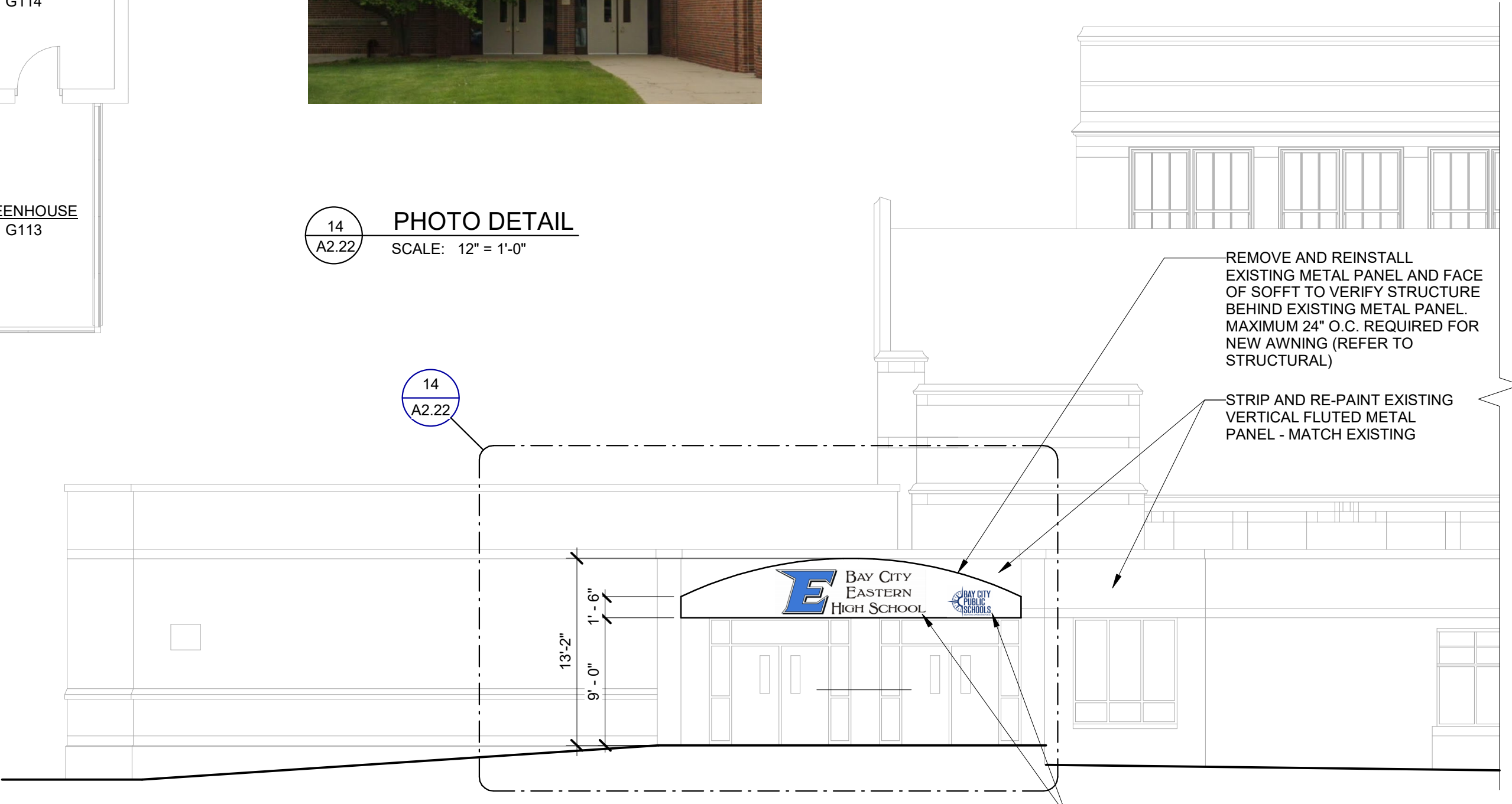
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MINIMALLY TRIM EXISTING TREE AS REQUIRED FOR NEW AWNING

STRIP AND RE-PAINT EXISTING VERTICAL FLUTED METAL PANEL - MATCH EXISTING



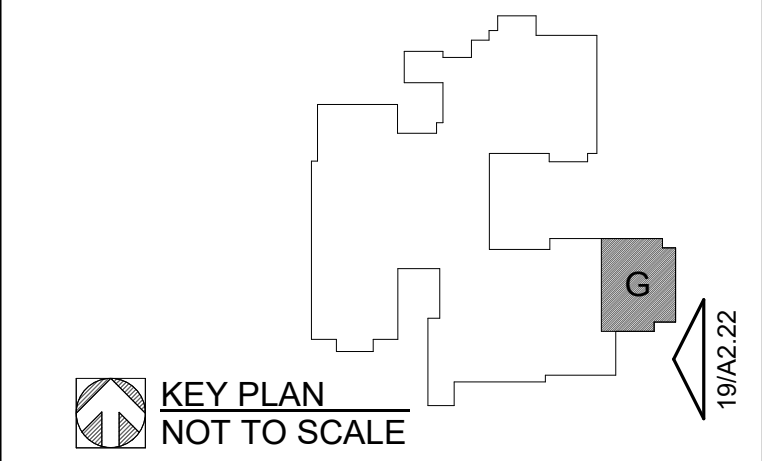
14
A2.22
PHOTO DETAIL
SCALE: 12" = 1'-0"



EXTERIOR ELEVATION - EAST
19/A2.22 SCALE: 1/8" = 1'-0"

FINAL VERSION OF GRAPHICS TO BE VERIFIED AND APPROVED BY OWNER AND ARCHITECT. LOGO FONT, SIZE, AND COLOR REQUIREMENTS PROVIDED BY OWNER.

NO.	REVISION	DATE



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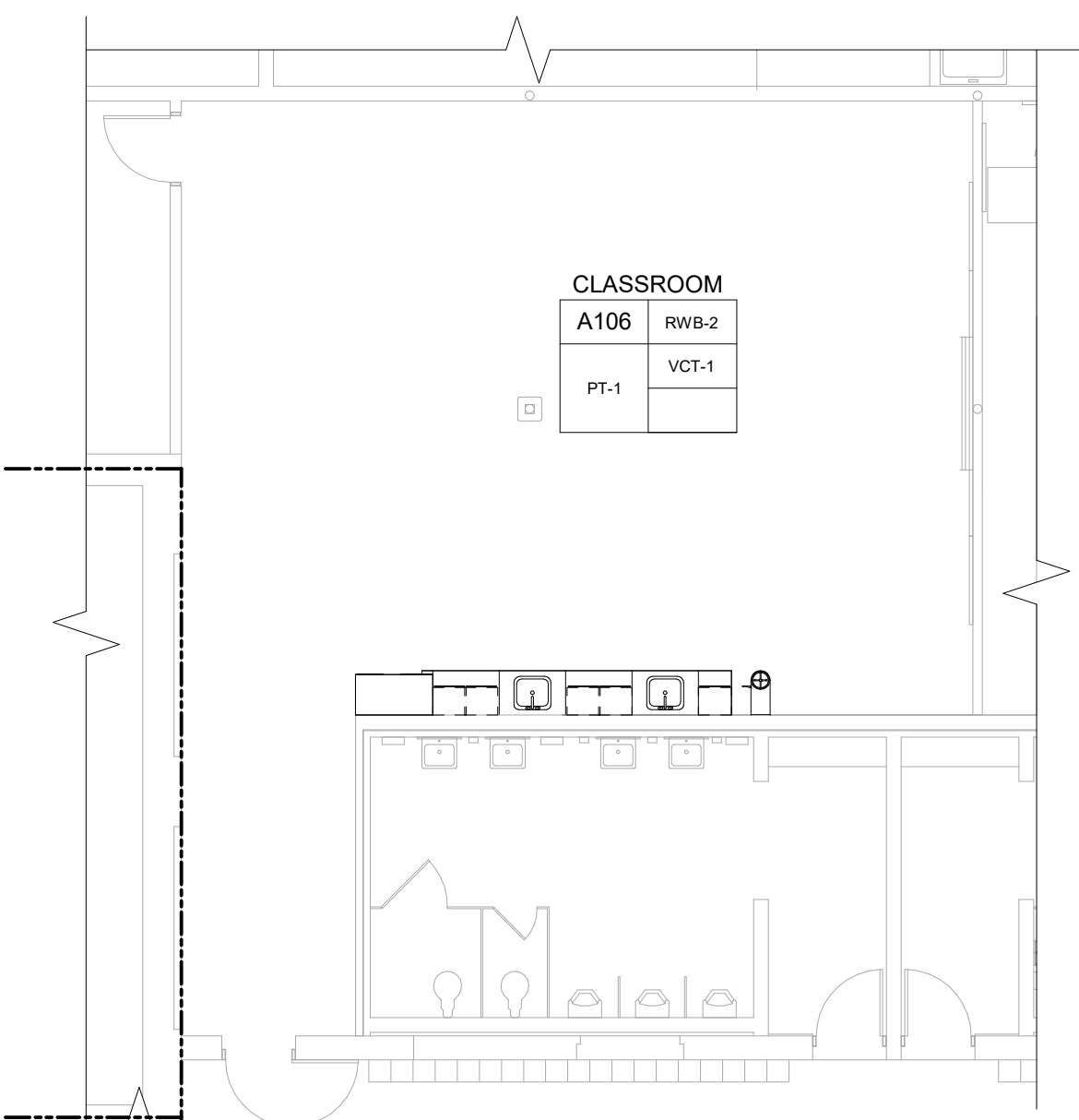
PROJECT TITLE
RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN

SHEET TITLE
FIRST FLOOR CONSTRUCTION PLAN - UNIT 'G' & EXT. ELEV.

PROJECT NUMBER 2018040.16	SHEET NUMBER A2.22
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY J.A.R.	

16
A2.22
FIRST FLOOR CONSTRUCTION PLAN - UNIT 'G'
SCALE: 1/8" = 1'-0"



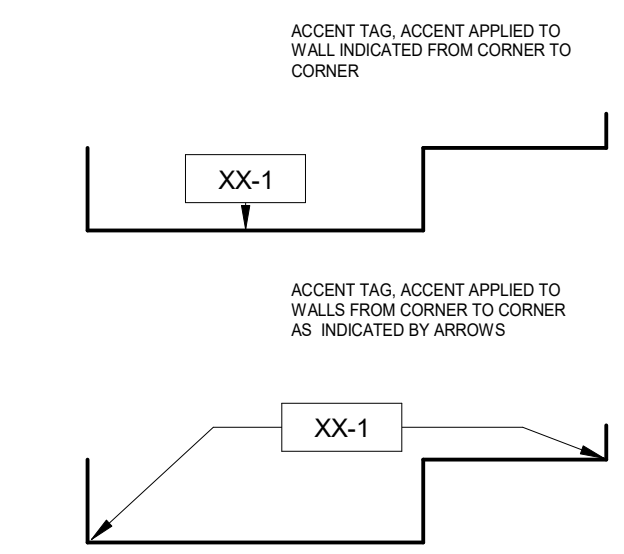
1 FIRST FLOOR FINISH PLAN - UNIT 'A'
SCALE: 1/8" = 1'-0"

TAG	MANUFACTURER	STYLE	COLOR	SIZE	REMARKS
CARPET					
CPT-1	MANNINGTON	MULTIPLXER	TBD	TBD	
CPT-2	MANNINGTON	MULTIPLXER	TBD	TBD	
CERAMIC TILE					
CT-1	MEDITERRANEA	MODERN SLATE	TBD	12"x24"	ANTI-SLIP FINISH
CT-2	MEDITERRANEA	MODERN SLATE	TBD	12"x24"	MATTE FINISH
CT-3	ATLAS CONCORDE USA	FRAY	TBD	12"x24"	
INTERIOR PAINT					
P-1	SHERWIN WILLIAMS		TBD		WALL FIELD
P-2	SHERWIN WILLIAMS		TBD		WALL ACCENT EHS SKY BLUE
P-3	SHERWIN WILLIAMS		TBD		WALL ACCENT EHS WHITE
P-4	SHERWIN WILLIAMS		TBD		LOCKER COLOR HMS NEUTRAL STANDARD
P-5	SHERWIN WILLIAMS		TBD		HOLLOW METAL DOOR AND FRAME COLOR
P-6	SHERWIN WILLIAMS		TBD		MATCH ADJ. WALLS
P-7	SHERWIN WILLIAMS		TBD		GYPSON BOARD SOFFITS
P-8	SHERWIN WILLIAMS		TBD		HOLLOW METAL DOOR AND FRAME COLOR
P-9	SHERWIN WILLIAMS		TBD		HOLLOW METAL DOOR AND FRAME COLOR
P-10	SHERWIN WILLIAMS		TBD		RECEPTION WALL ACCENT
PLASTIC LAMINATE					
PLAM-1	ARBORITE	TBD	TBD		
PLAM-2	ARBORITE	TBD	TBD		
RESILIENT WALL BASE					
RWB-1	JOHNSONITE	6" VINYL COVE	TBD		
RWB-2	JOHNSONITE	4" VINYL COVE	TBD		
VCT					
VCT-1	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE VCT		12"x12"	
VCT-2	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE VCT		12"x12"	

ALTERNATE NO. 4

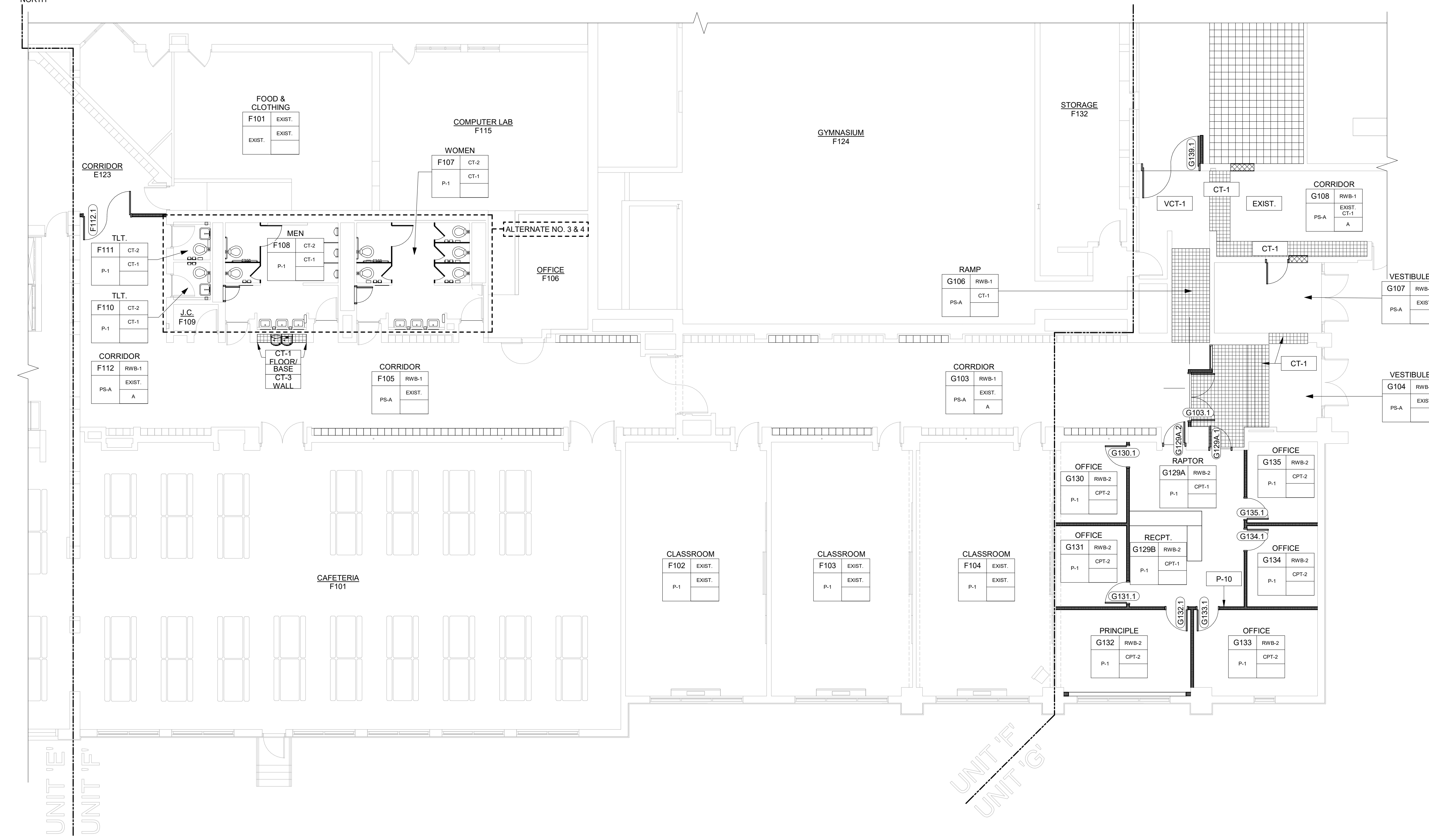
FINISH PLAN REMARKS:

- A. PROVIDE SHIM AS REQUIRED FOR NEW RESILIENT WALL BASE.



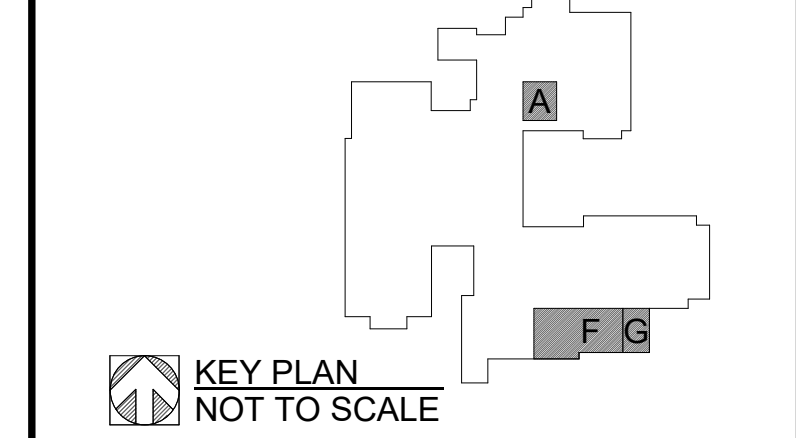
INTERIOR GENERAL NOTES:

- AT STUD WALL LOCATIONS PROVIDE BLOCKING AS REQUIRED FOR ALL WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO: GRAB BARS, MIRRORS, DISPENSERS, ETC. (REFER TO MFR. RECOMMENDATIONS).
- ALL NEW CASEWORK TO HAVE HIGH PRESSURE LAMINATE EXTERIOR AND MELAMINE LAMINATE INTERIOR, UNLESS OTHERWISE NOTED.
- REFER TO FINISH MATERIAL SCHEDULE FOR SPECIFIC MANUFACTURER, STYLE, COLOR & SIZE INFORMATION.
- REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION.
- PROVIDE RESILIENT BASE AT TOE KICK OF CASEWORK WHEN INDICATED WITHIN A ROOM.
- FOR CASEWORK DETAILS - REFER TO "NORTHERN AMERICA ARCHITECTURAL WOODWORK STANDARDS (A.W.S.)."
- CASEWORK DESIGNATION REFERS TO THE WIDTH (W) AND DEPTH (D) OF THE CABINET. REFER TO DIMENSIONS FOR HEIGHT. REFER TO "A.W.S." FOR CABINET NUMBER LOCATED BELOW DIMENSION LINE.
- ALL CASEWORK LOCKABLE UNLESS OTHERWISE NOTED (DOORS AND DRAWERS).
- ALL CASEWORK TO HAVE PVC EDGE BAND ON ALL EDGES INCLUDING BUT NOT LIMITED TO: SUPPORT EDGES, DOOR, AND DRAWER EDGES, ETC.
- ALL CASEWORK TO HAVE CONCEALED HINGES W/ SELF-CLOSING DOORS AND DRAWERS.
- ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC) AND ELECTRICAL EQUIPMENT (PANELS, ETC) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS.
- WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH CONDITION AS REQUIRED.
- PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS.
- CARPET EDGES SHALL BE CAPTURED BY NOSING. NOSING SHALL BE MITERED AT ALL OUTSIDE AND INSIDE CORNER CONDITIONS.
- REFER TO SPECIFICATIONS FOR COMPLETE FINISH INFORMATION.



16 FIRST FLOOR FINISH PLAN - UNIT 'F' & 'G'
SCALE: 1/8" = 1'-0"

NO.	REVISION	DATE



KEY PLAN NOT TO SCALE

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PROJECT TITLE
RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN

SHEET TITLE
FIRST FLOOR FINISH PLAN - UNIT 'A', UNIT 'F' & UNIT 'G'

PROJECT NUMBER 2018040.16	SHEET NUMBER A3.01
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY J.A.R.	

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FINISH PLAN REMARKS:

- A. PROVIDE SHIM AS REQUIRED FOR NEW RESILIENT WALL BASE.

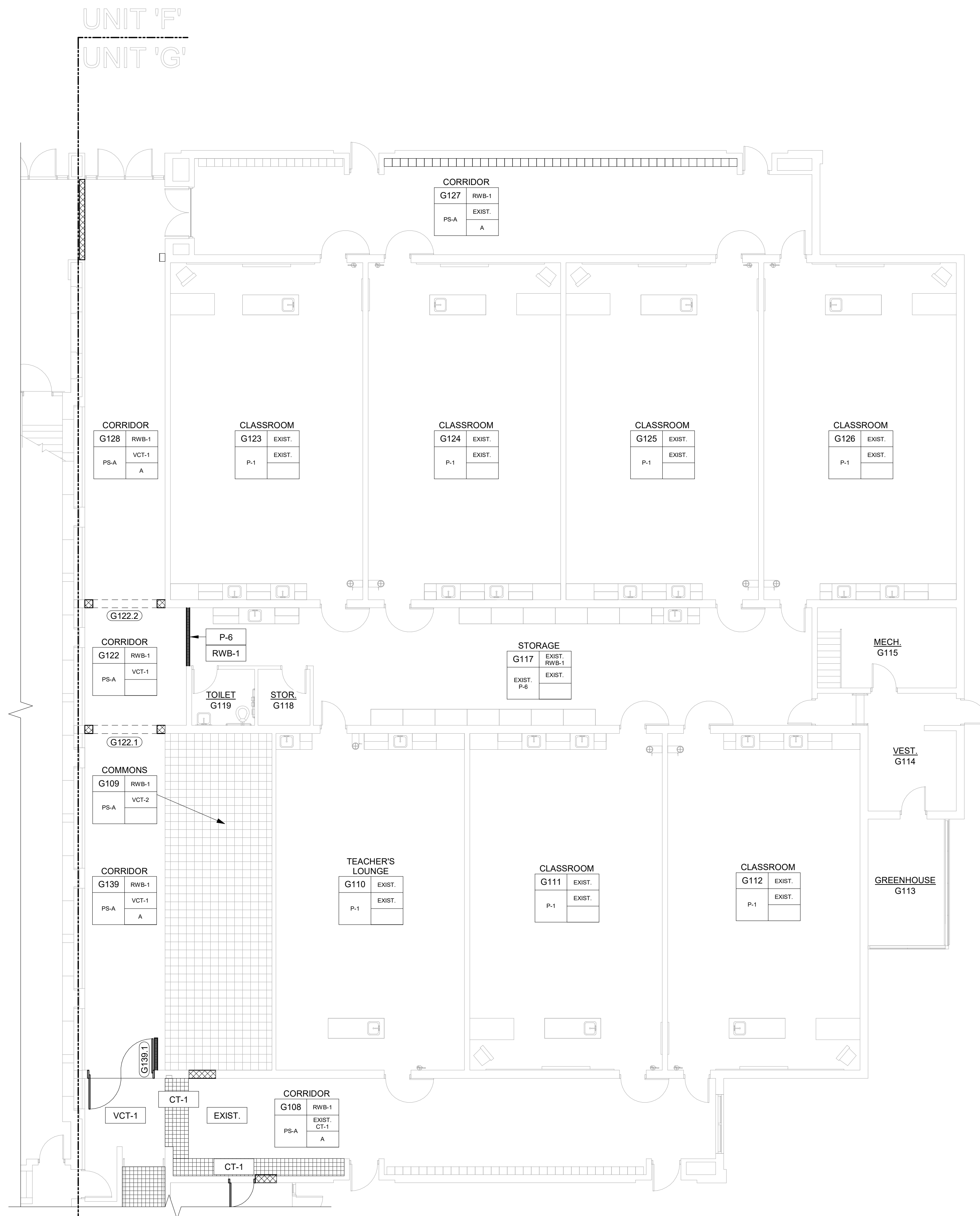
FINISH PLAN LEGEND:

ACCENT TAG, ACCENT APPLIED TO WALL INDICATED FROM CORNER TO CORNER

ACCENT TAG, ACCENT APPLIED TO WALLS FROM CORNER TO CORNER AS INDICATED BY ARROWS

INTERIOR GENERAL NOTES:

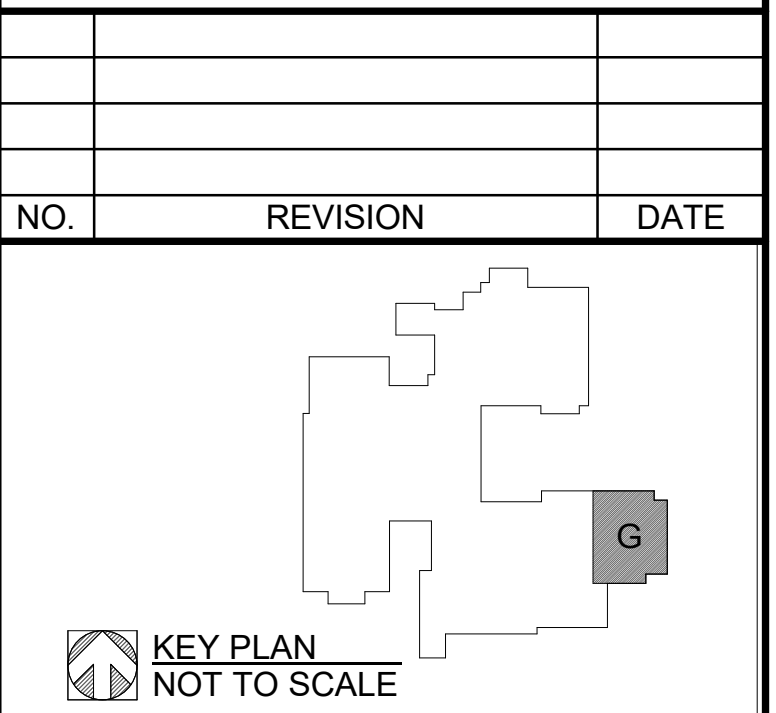
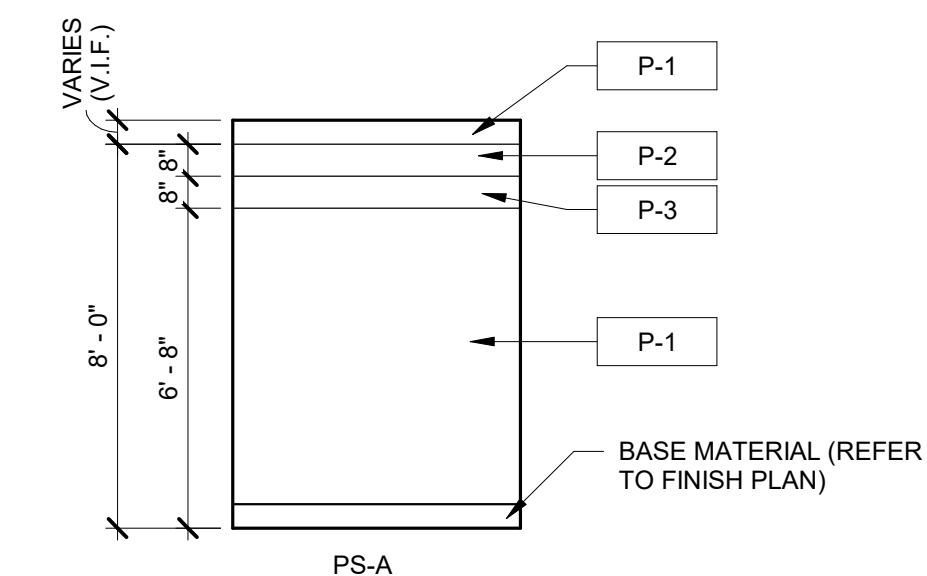
- AT STUD WALL LOCATIONS PROVIDE BLOCKING AS REQUIRED FOR ALL WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO: GRAB BARS, MIRRORS, DISPENSERS, ETC. (REFER TO MFR. RECOMMENDATIONS).
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- REFER TO FINISH MATERIAL SCHEDULE FOR SPECIFIC MANUFACTURER, STYLE, COLOR & SIZE INFORMATION.
- REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION.
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- REFER TO SPECIFICATIONS FOR COMPLETE FINISH INFORMATION.



ALTERNATE NO. 4

FINISH MATERIAL SCHEDULE

TAG	MANUFACTURER	STYLE	COLOR	SIZE	REMARKS
CARPET					
CPT-1	MANNINGTON	MULTIPLEXER	TBD	TBD	
CPT-2	MANNINGTON	MULTIPLEXER	TBD	TBD	
CERAMIC TILE					
CT-1	MEDITERRANEA	MODERN SLATE	TBD	12"x24"	ANTI-SLIP FINISH
CT-2	MEDITERRANEA	MODERN SLATE	TBD	12"x24"	MATTE FINISH
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P-2	SHERWIN WILLIAMS		TBD		WALL ACCENT EHS SKY BLUE
P-3	SHERWIN WILLIAMS		TBD		WALL ACCENT EHS WHITE
P-4	SHERWIN WILLIAMS		TBD		LOCKER COLOR HMS NEUTRAL STANDARD
P-5	SHERWIN WILLIAMS		TBD		HOLLOW METAL DOOR AND FRAME COLOR
P-6	SHERWIN WILLIAMS		TBD		MATCH ADJ. WALLS
P-7	SHERWIN WILLIAMS		TBD		GYPSUM BOARD SOFFITS
P-8	SHERWIN WILLIAMS		TBD		HOLLOW METAL DOOR AND FRAME COLOR
P-9	SHERWIN WILLIAMS		TBD		HOLLOW METAL DOOR AND FRAME COLOR
P-10	SHERWIN WILLIAMS		TBD		RECEPTION WALL ACCENT
PLASTIC LAMINATE					
PLAM-1	ARBORITE	TBD	TBD		
PLAM-2	ARBORITE	TBD	TBD		
RESILIENT WALL BASE					
RWB-1	JOHNSONITE	6" VINYL COVE	TBD		
RWB-2	JOHNSONITE	4" VINYL COVE	TBD		
VCT					
VCT-1	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE VCT	TBD	12"x12"	
VCT-2	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE VCT	TBD	12"x12"	



KEY PLAN
NOT TO SCALE

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PROJECT TITLE
RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

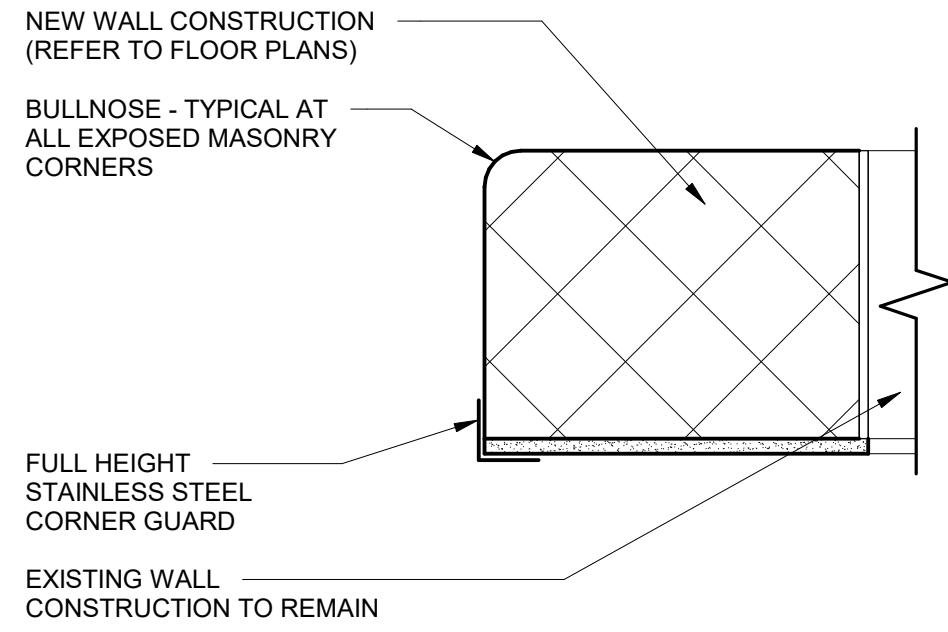
BAY CITY, MICHIGAN

SHEET TITLE
FIRST FLOOR FINISH PLAN - UNIT 'G'

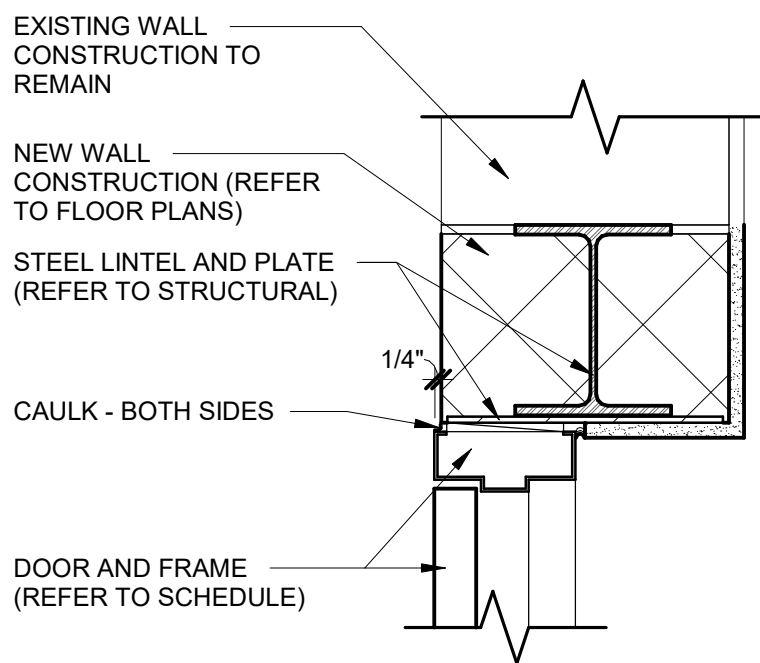
PROJECT NUMBER 2018040.16	SHEET NUMBER A3.02
PROJECT DATE FEBRUARY 1, 2024	CHECKED BY J.A.R.

17 A3.02
NORTH
FIRST FLOOR FINISH PLAN - UNIT 'G'
SCALE: 1/8" = 1'-0"

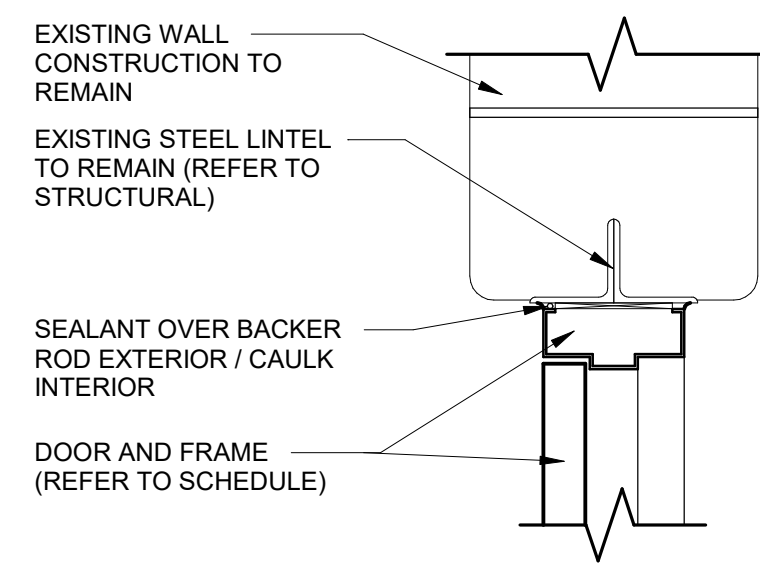
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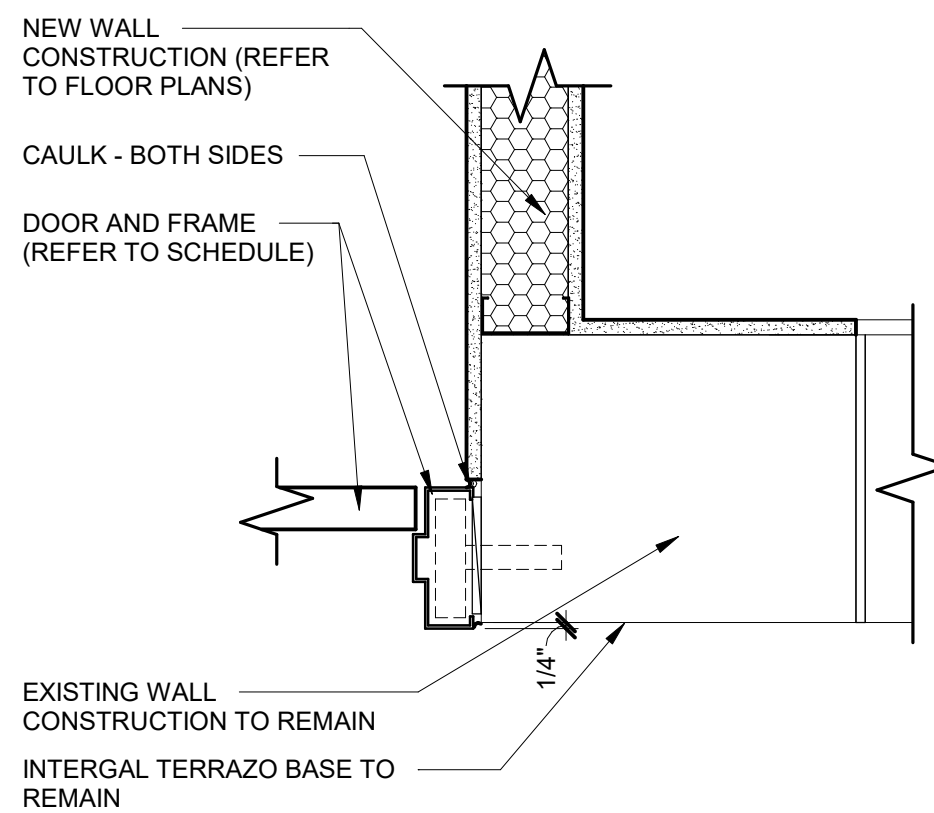
2 OPENING JAMB DETAIL Copy 1
SCALE: 1 1/2" = 1'-0"



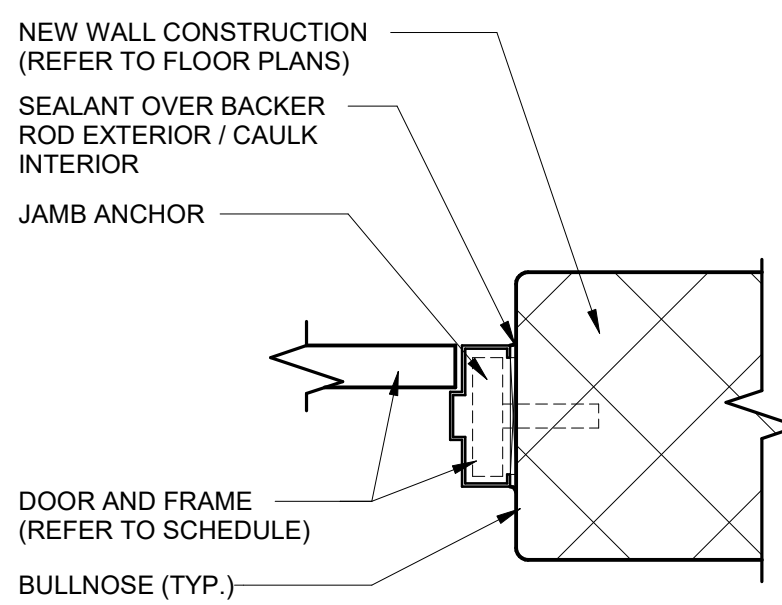
7 DOOR HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



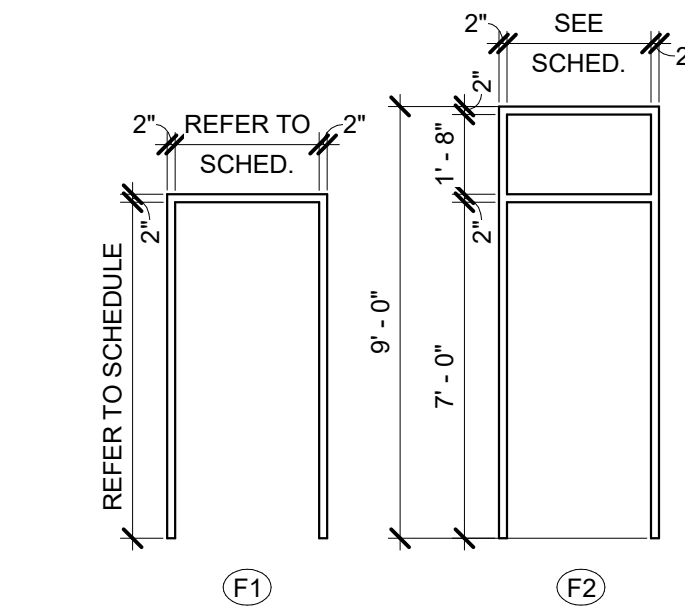
12 HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



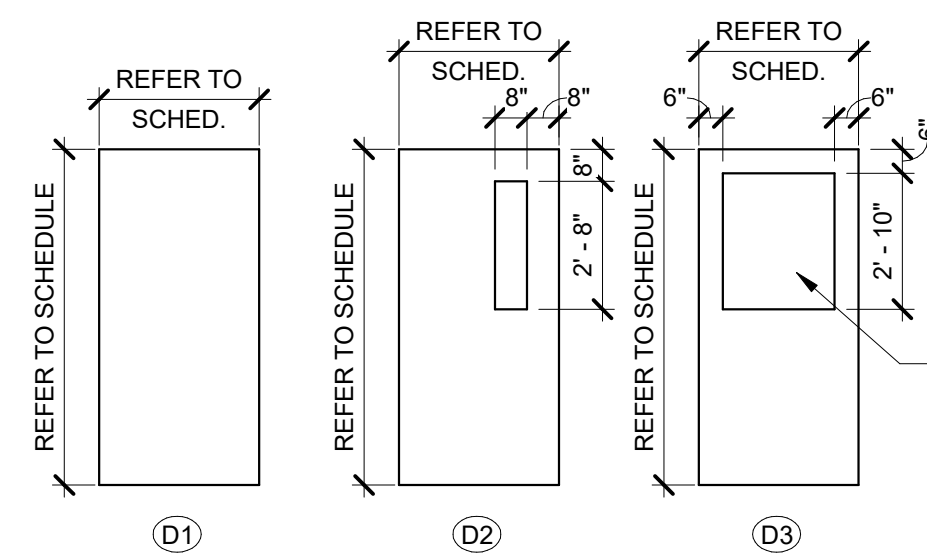
8 DOOR JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



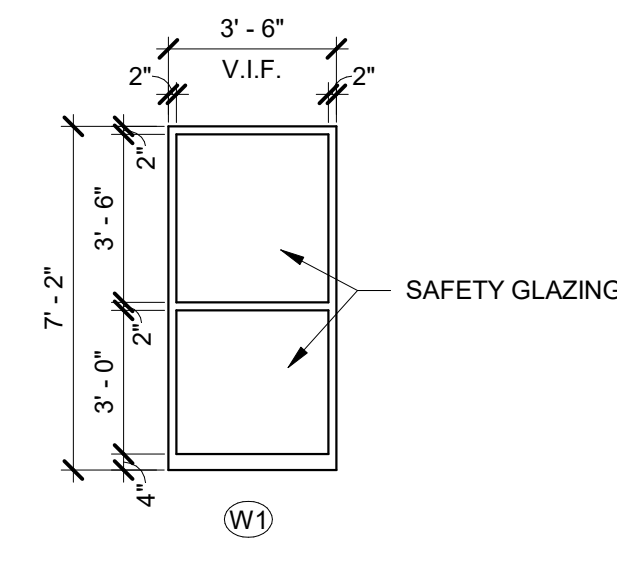
13 JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



FRAME TYPES
1/4" = 1'-0"



DOOR TYPES
1/4" = 1'-0"



WDW TYPES
1/4" = 1'-0"



DOOR & FRAME SCHEDULE														REMARKS		HW SET
NUMBER	PAIR "X"	DOOR				FRAME		DETAILS			FIRE RATING		REMARKS	HW SET		
		WIDTH	HEIGHT	THK.	MAT.	TYPE	MAT.	TYPE	HEAD	JAMB	SILL	LABEL			MIN.	
F107.1		2'-3"	6'-7"	1 3/4"	H.M.	D1	H.M.	F1	-	-	-	-	-	A		
F108.1		2'-0"	6'-7"	1 3/4"	H.M.	D1	H.M.	F1	-	-	-	-	-	A		
F121	X	6'-8"	7'-0"	1 3/4"	H.M.	D1	H.M.	F1	14/A3.03	15/A3.03	-	-	-	B, E, F, G, J		
G103.1	X	6'-8"	7'-0"	1 3/4"	H.M.	D2	H.M.	F1	14/A3.03	15/A3.03	-	-	-	E, F, G, L		
G107.1		3'-0"	7'-0"	1 3/4"	H.M.	D2	H.M.	F1	12/A3.03	13/A3.03	-	-	-	D, F, G, E		
G122.1		8'-0"	7'-0"	0"	-	-	-	-	2/A3.03 SIM.	2/A3.03	-	-	-			
G122.2		8'-0"	7'-0"	0"	-	-	-	-	2/A3.03 SIM.	2/A3.03 SIM.	-	-	-			
G129A.1		3'-0"	7'-0"	1 3/4"	WD	D3	H.M.	F1	-	-	-	-	20	D, F, G, H, K		
G129A.2		3'-0"	7'-0"	1 3/4"	WD	D3	H.M.	F1	-	-	-	-	20	H, K		
G130.1		3'-0"	7'-0"	1 3/4"	WD	D2	H.M.	F1	14/A3.03	15/A3.03	-	-	-			
G131.1		3'-0"	7'-0"	1 3/4"	WD	D2	H.M.	F1	14/A3.03	15/A3.03	-	-	-			
G132.1		3'-0"	7'-0"	1 3/4"	WD	D2	H.M.	F2	14/A3.03	15/A3.03	-	-	-			
G133.1		3'-0"	7'-0"	1 3/4"	WD	D2	H.M.	F2	14/A3.03	15/A3.03	-	-	-			
G134.1		3'-0"	7'-0"	1 3/4"	WD	D2	H.M.	F1	14/A3.03	15/A3.03	-	-	-			
G135.1		3'-0"	7'-0"	1 3/4"	WD	D2	H.M.	F1	14/A3.03	15/A3.03	-	-	-			
G139.1	X	8'-0"	7'-0"	1 3/4"	H.M.	D1	H.M.	F1	7/A3.03	8/A3.03	-	-	90	C, E, F		

DOOR SCHEDULE REMARKS:

- A. VERIFY PLUMBING ACCESS DOOR AND FRAME SIZE AND LOCATION IN FIELD.
- B. PAINT DOOR AND FRAME TO MATCH ADJACENT WALL COLOR. CORRIDOR F112 TO BE P-8 CORRIDOR E123 TO BE P-9
- C. PROVIDE HOLD OPEN w/ CLOSER TIED INTO FIRE ALARM.
- D. PROVIDE INTERCOM, CAMERA, AND BUTTON ACCESS FROM RECEPTION DESK ON OUTSIDE OF DOOR.
- E. PROVIDE PANIC HARDWARE.
- F. PROVIDE DOOR CLOSER.
- G. PROVIDE FOB ACCESS INTERGRATED INTO DOOR FRAME.
- H. PROVIDE BARRIER FREE DOOR PUSH PADS.
- I. NOT USED.
- J. PROVIDE MEANS TO TIE DOOR INTO FIRE ALARM TO UNLOCK DURING EMERGENCY FOR EGRESS.
- K. NOT USED.
- L. PROVIDE BUTTON ACCESS FROM RECEPTION DESK AND TIMED UNLOCK TO BE SET BY SCHOOL.
- M. PAINT HOLLOW METAL DOORS AND FRAMES P-5.

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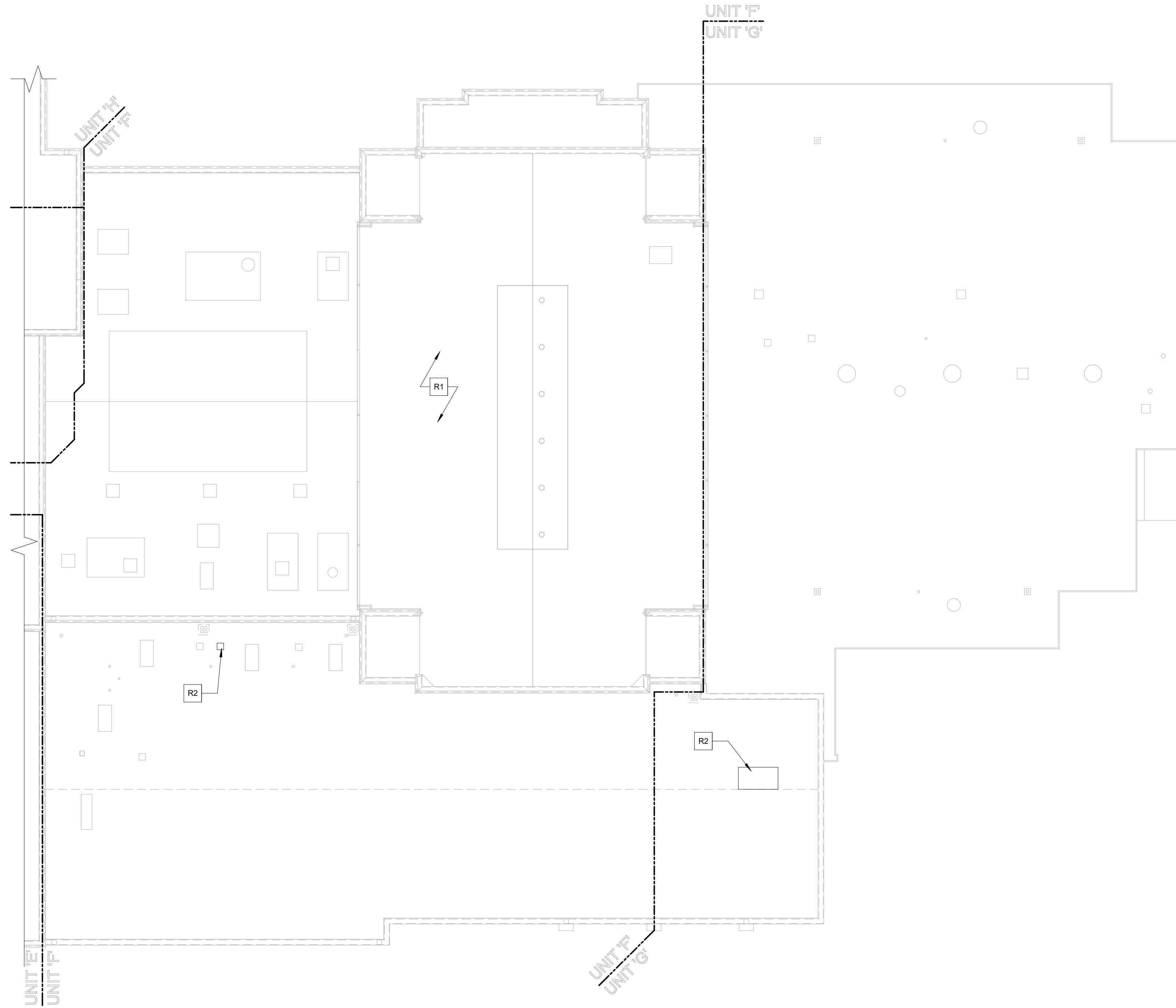
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RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

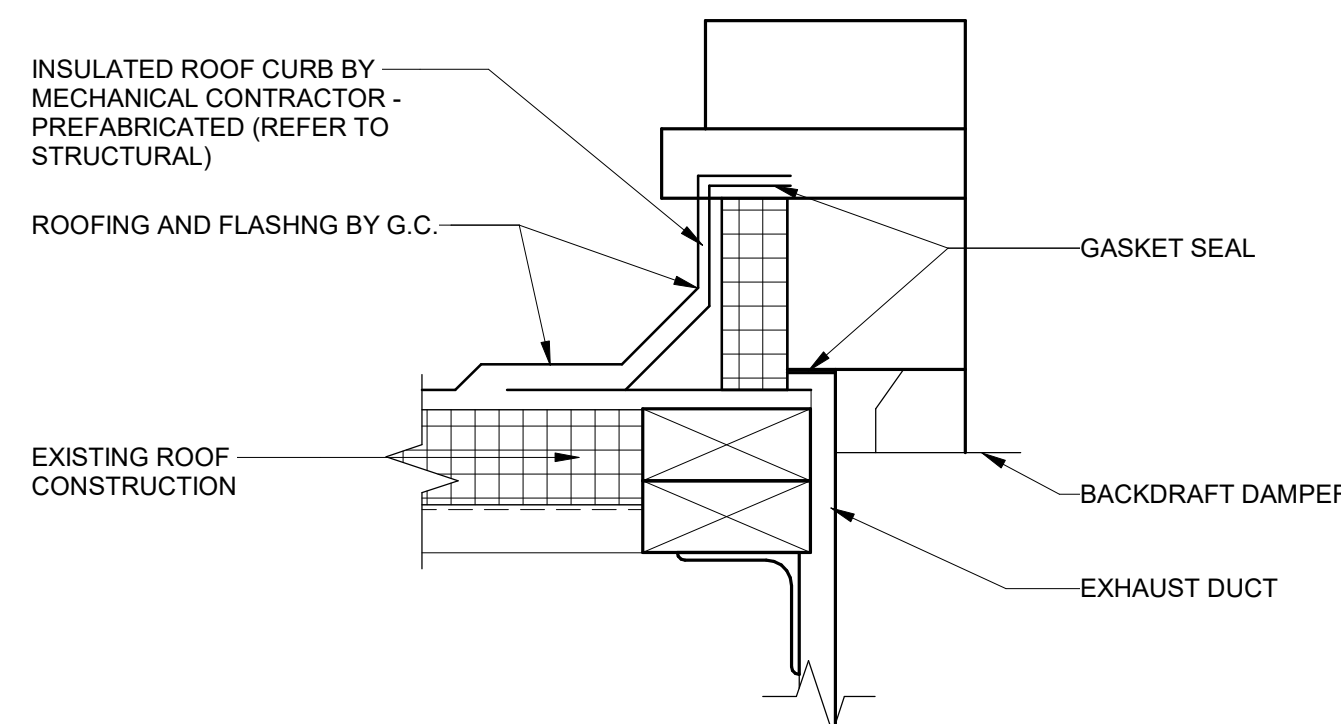
BAY CITY, MICHIGAN

SHEET TITLE
DOOR & FRAME SCHEDULE, TYPES, AND DETAILS

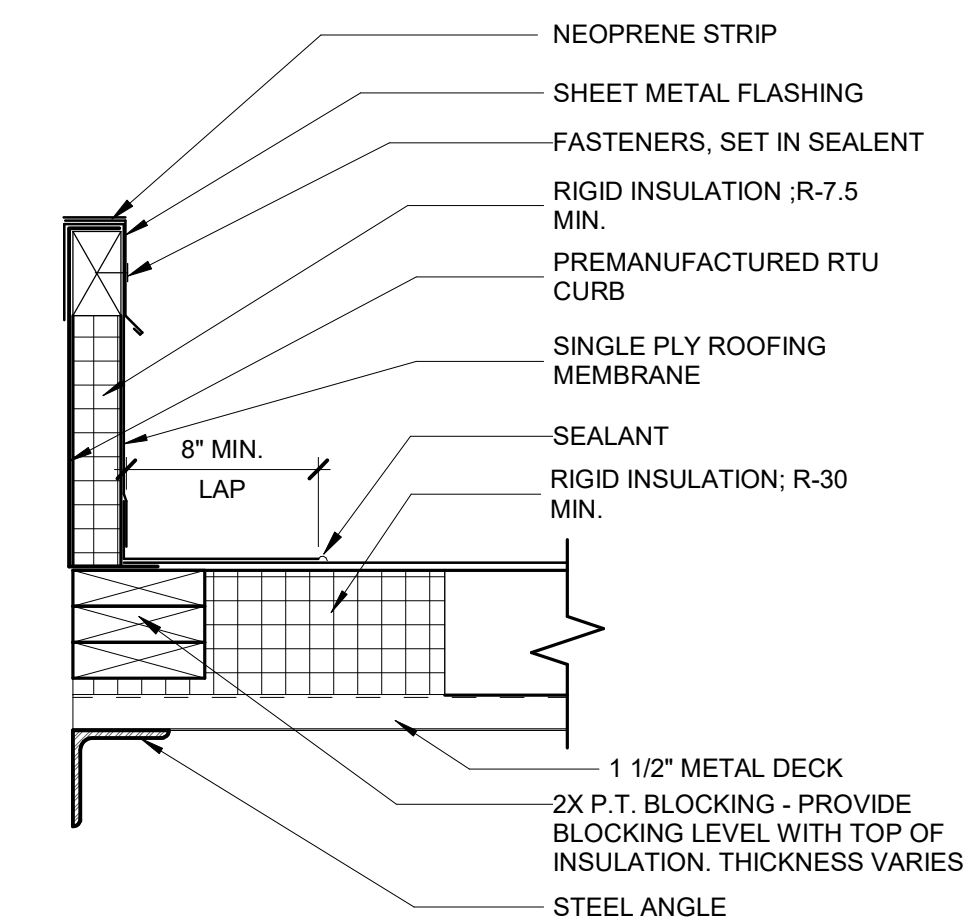
PROJECT NUMBER 2018040.16	SHEET NUMBER A3.03
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY J.A.R.	



12 ROOF PLAN
 A6.01 SCALE: 1/16" = 1'-0"
 NORTH



19 TYP. EXHAUST FAN PENETRATION DETAIL
 A6.01 SCALE: 3" = 1'-0"

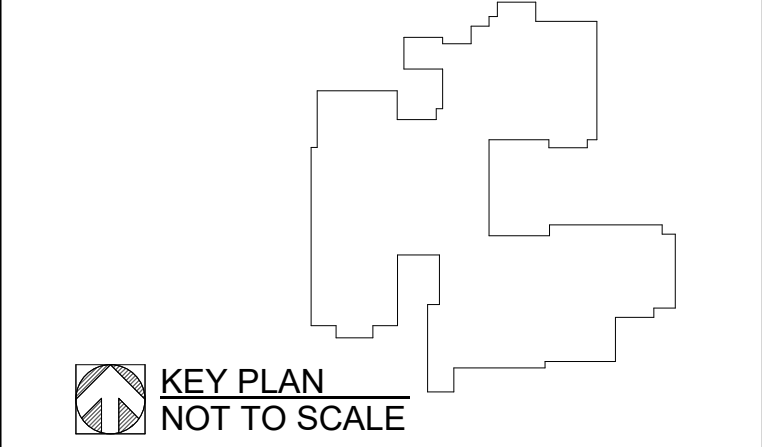


20 TYP. RTU CURB DETAIL
 A6.01 SCALE: 1 1/2" = 1'-0"

RE ROOF PLAN KEYNOTE

- R1 EXISTING TO REMAIN.
- R2 NEW MECHANICAL EQUIPMENT (REFER TO DETAILS AND MECHANICAL)

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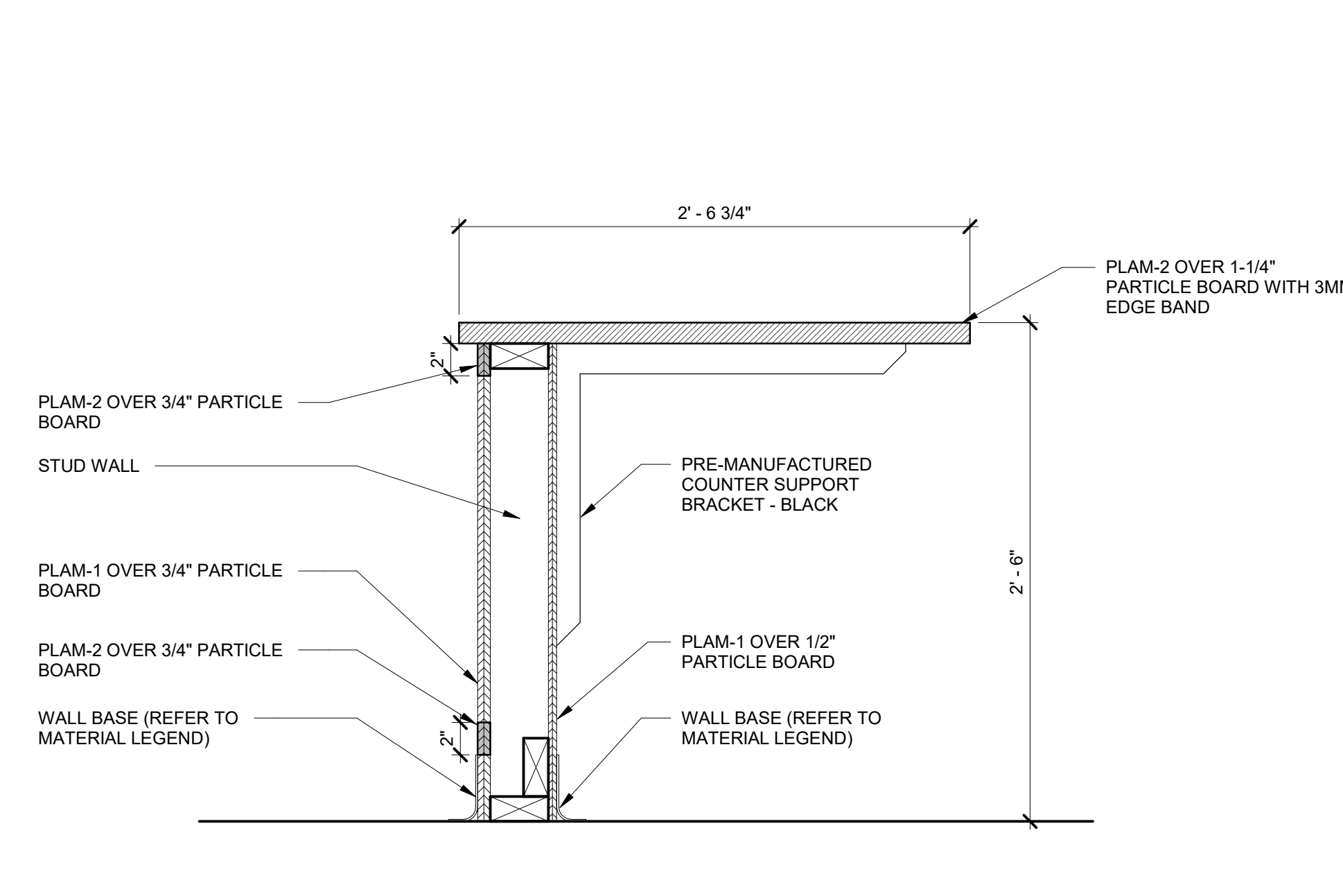
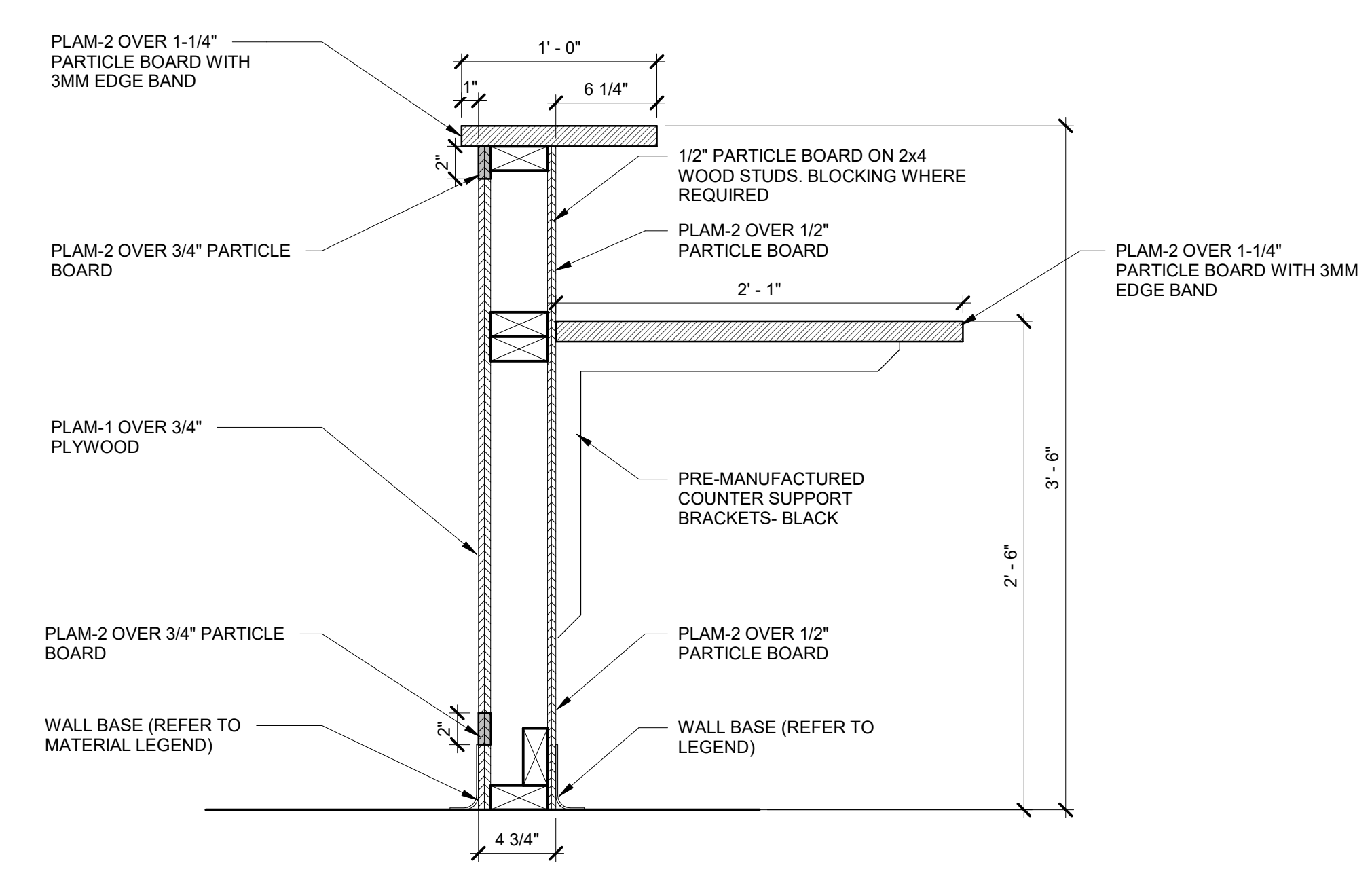
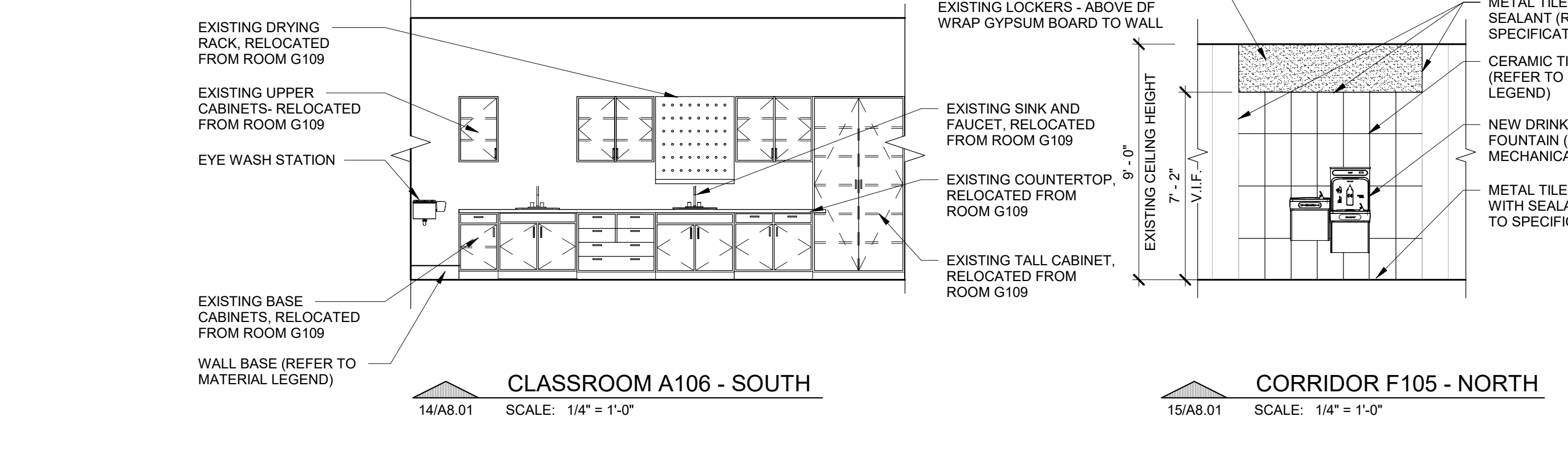
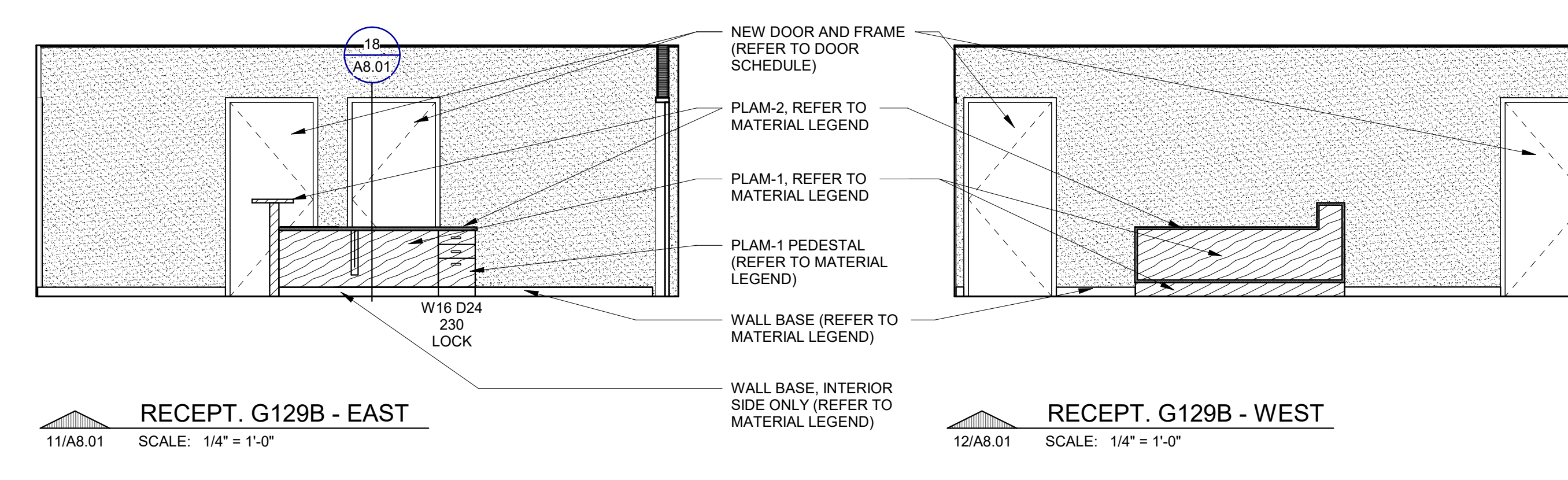
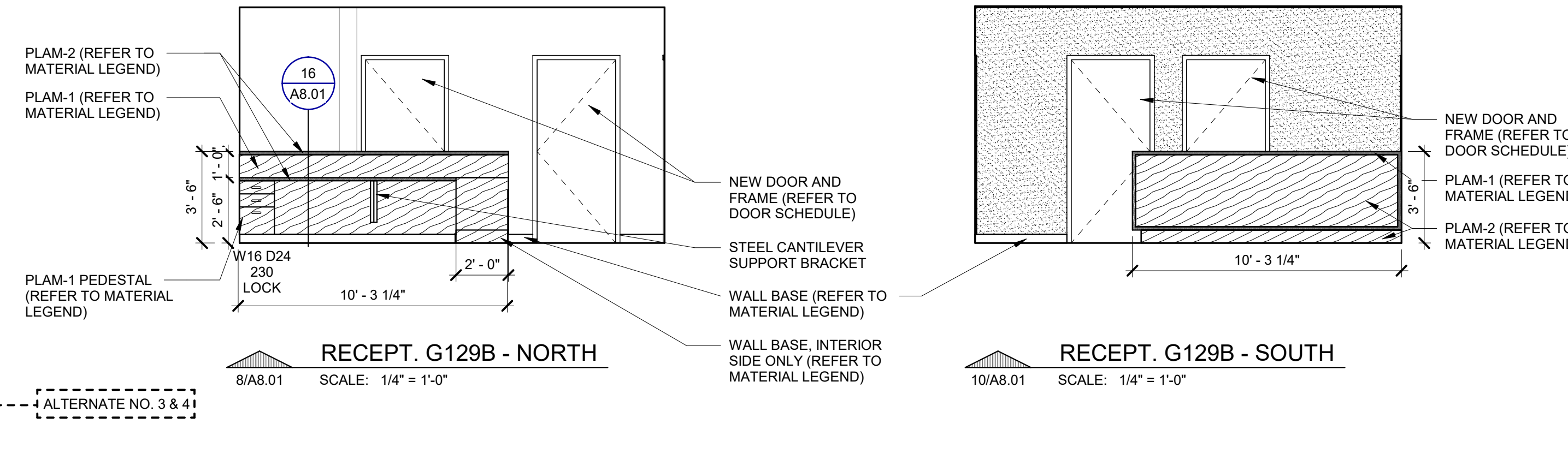
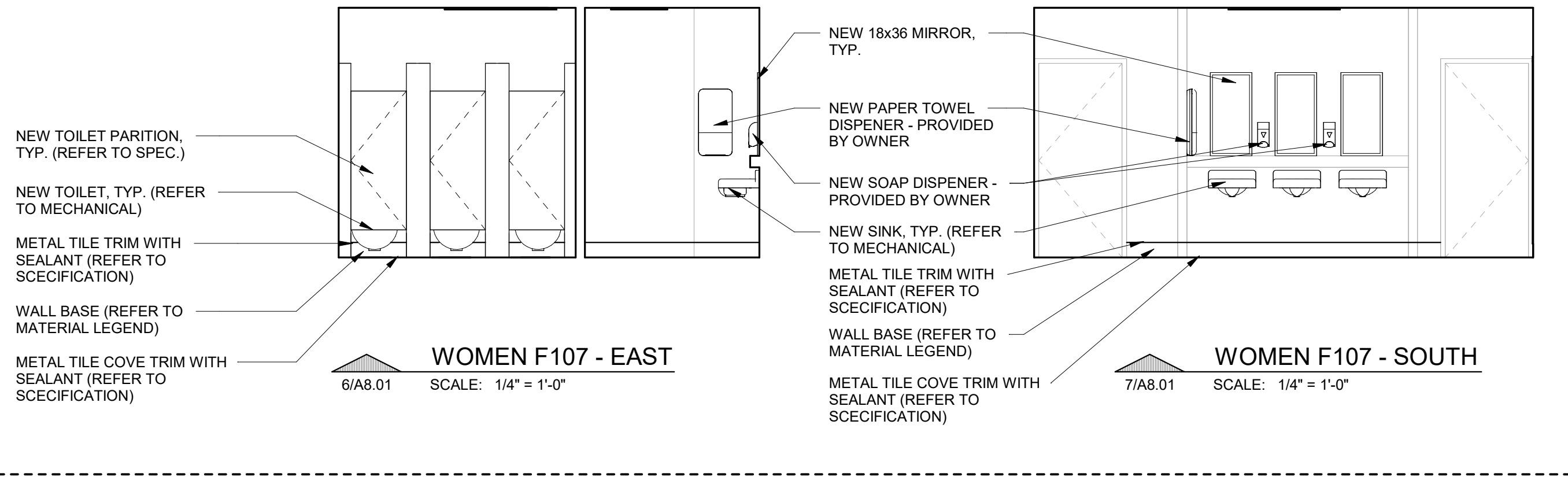
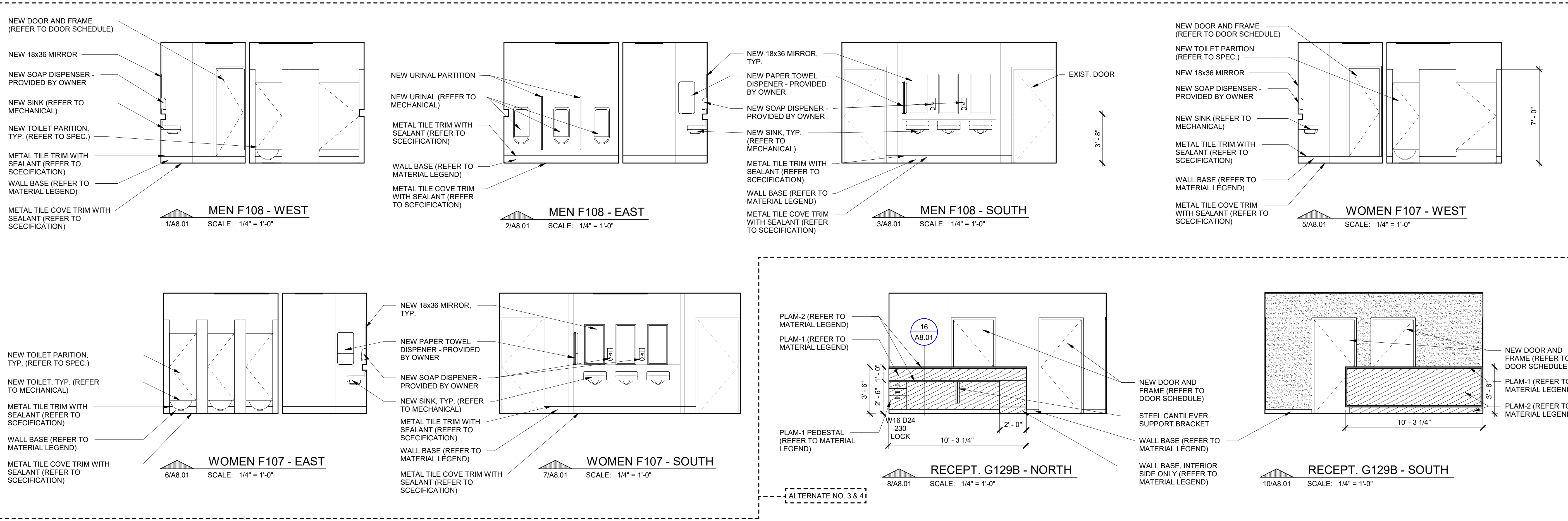
PROJECT TITLE
 RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN

SHEET TITLE
PARTIAL ROOF PLAN

PROJECT NUMBER 2018040.16	SHEET NUMBER A6.01
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY J.A.R.	

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- INTERIOR GENERAL NOTES:**
- AT STUD WALL LOCATIONS PROVIDED BLOCKING AS REQUIRED FOR ALL WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO: GRAB BARS, MIRRORS, DISPENSERS, ETC. (REFER TO MFR. RECOMMENDATIONS).
 - ALL NEW CASEWORK TO HAVE HIGH PRESSURE LAMINATE EXTERIOR AND MELAMINE LAMINATE INTERIOR, UNLESS OTHERWISE NOTED.
 - REFER TO FINISH MATERIAL SCHEDULE FOR SPECIFIC MANUFACTURER, STYLE, COLOR & SIZE INFORMATION
 - REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION
 - PROVIDE RESILIENT BASE AT TOE KICK OF CASEWORK WHEN INDICATED WITHIN A ROOM.
 - FOR CASEWORK DETAILS - REFER TO "NORTHERN AMERICA ARCHITECTURAL WOODWORK STANDARDS (A.W.S.)."
 - CASEWORK DESIGNATION REFERS TO THE WIDTH (W) AND DEPTH (D) OF THE CABINET. REFER TO DIMENSIONS FOR HEIGHT. REFER TO "A.W.S." FOR CABINET NUMBER LOCATED BELOW DIMENSION LINE.
 - ALL CASEWORK LOCKABLE UNLESS OTHERWISE NOTED (DOORS AND DRAWERS).
 - ALL CASEWORK TO HAVE PVC EDGE BAND ON ALL EDGES INCLUDING BUT NOT LIMITED TO: SUPPORT EDGES, DOOR, AND DRAWER EDGES, ETC.
 - ALL CASEWORK TO HAVE CONCEALED HINGES W/ SELF-CLOSING DOORS AND DRAWERS.
 - ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC) AND ELECTRICAL EQUIPMENT (PANELS, ETC) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS.
 - WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH CONDITION AS REQUIRED.
 - PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS.
 - CARPET EDGES SHALL BE CAPTURED BY NOSING. NOSING SHALL BE MITERED AT ALL OUTSIDE AND INSIDE CORNER CONDITIONS.
 - REFER TO SPECIFICATIONS FOR COMPLETE FINISH INFORMATION.

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RENOVATION FOR BCPS:

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BAY CITY, MICHIGAN

SHEET TITLE

INTERIOR ELEVATIONS AND DETAILS

PROJECT NUMBER	2018040.16	SHEET NUMBER	A8.01
PROJECT DATE	FEBRUARY 1, 2024		
CHECKED BY	J.A.R.		

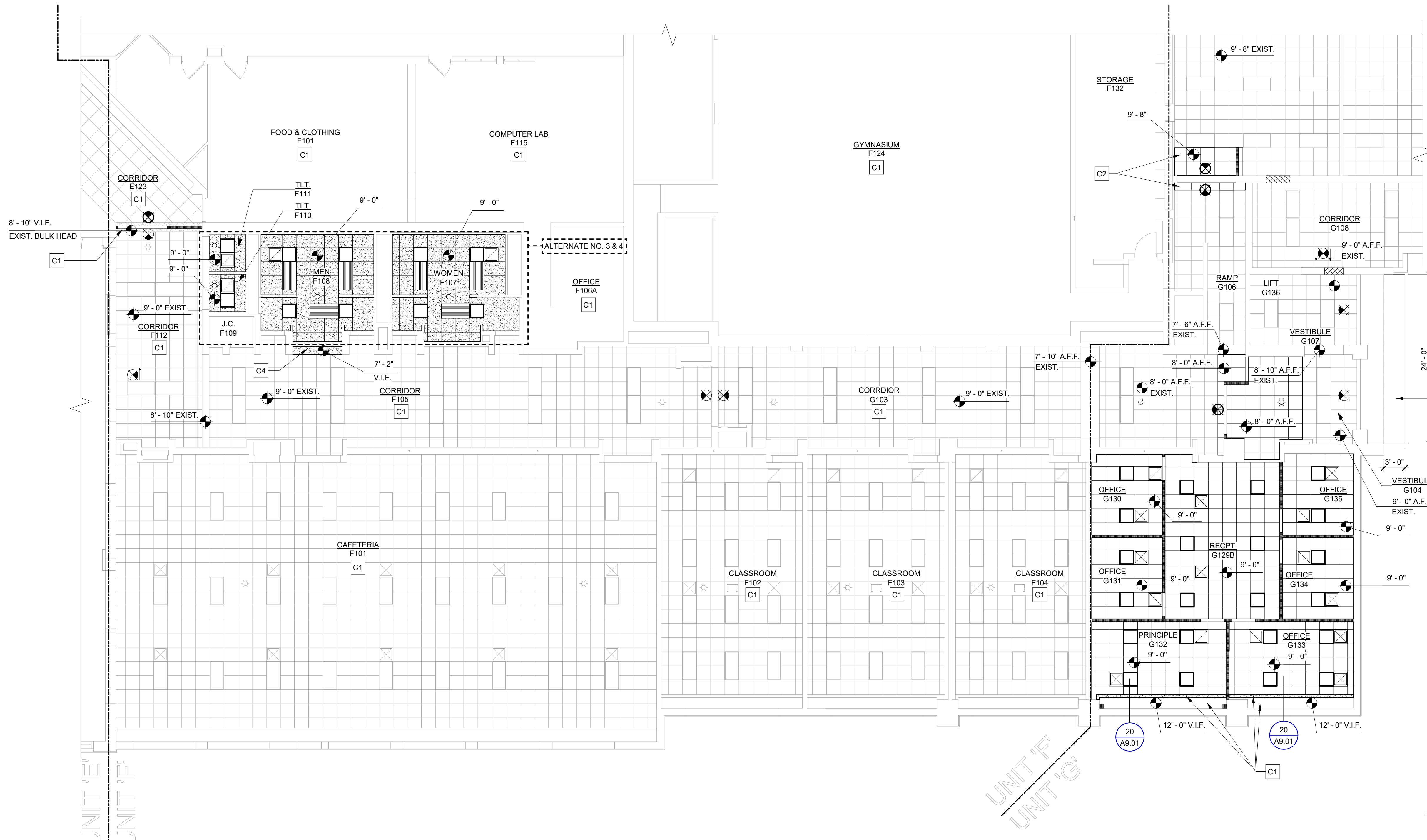
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Ceiling KEYNOTES

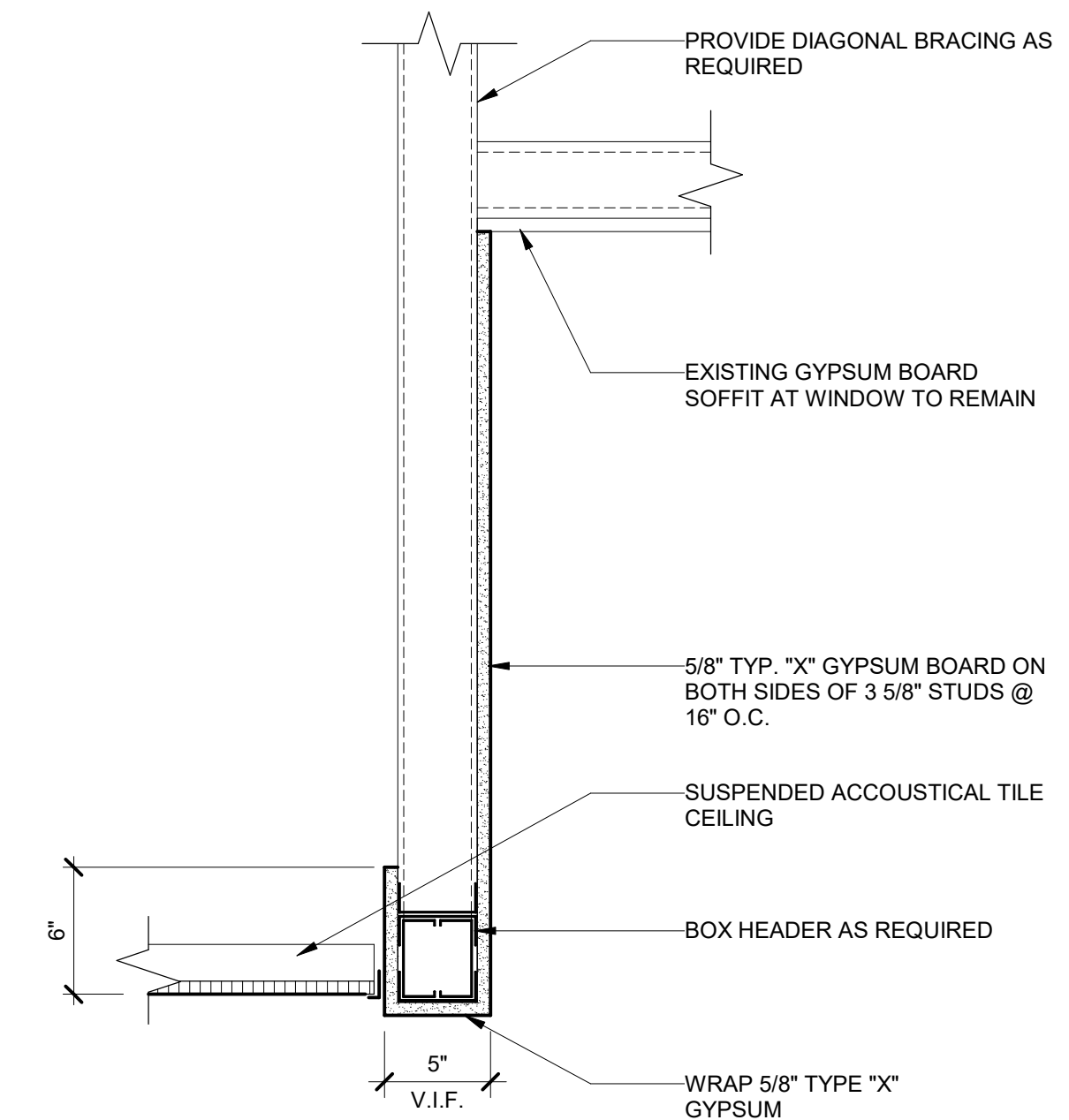
- C1 EXISTING CEILING TO REMAIN.
- C2 REMOVE AND RE-INSTALL EXISTING CEILING TILE AND GRID AS REQUIRED FOR DEMOLITION / NEW CONSTRUCTION
- C3 NEW AWNING (REFER TO EXTERIOR ELEVATION AND PHOTO DETAIL)
- C4 NEW GYPSUM BOARD SOFFIT ABOVE DRINKING FOUNTAINS

REFLECTED CEILING LEGEND:

- SAT-1: 2' x 2' CLEANABLE SUSPENDED ACOUSTICAL TILE
- SAT-2: 2' x 2' SUSPENDED ACOUSTICAL TILE
- GYPSUM BOARD SOFFIT
- CHAIN HUNG OR RECESSED LIGHT FIXTURES (REFER TO ELECTRICAL)
- SUPPLY AIR GRILLE (REFER TO MECHANICAL)
- RETURN AIR GRILLE (REFER TO MECHANICAL)
- EXISTING CEILING MOUNTED PROJECTOR TO REMAIN
- RADIANT CEILING PANEL (REFER TO MECHANICAL)
- EXISTING CEILING MOUNTED CABINET HEATER TO REMAIN (REFER TO MECHANICAL)
- EXIT FIXTURE (REFER TO ELECTRICAL)
- FIRE ALARM AND STROBE LIGHT (REFER TO ELECTRICAL)

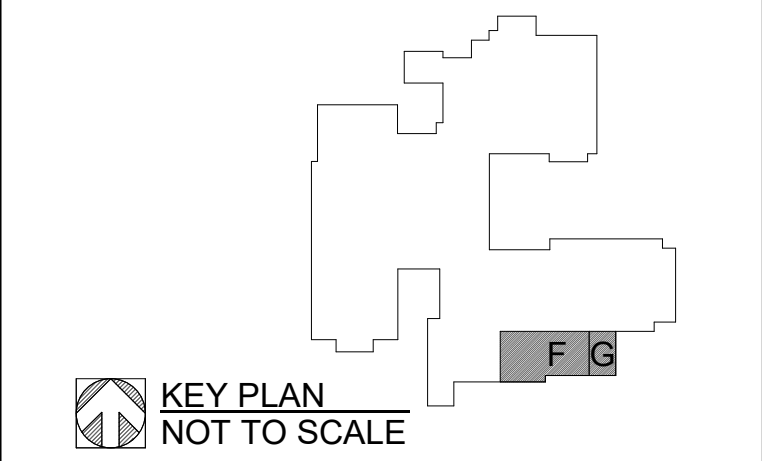


11 FIRST FLOOR REFLECTED CEILING PLAN - UNIT 'F' & UNIT 'G'
 SCALE: 1/8" = 1'-0"



20 SUSPENDED HEADER AT WINDOW
 SCALE: 1 1/2" = 1'-0"

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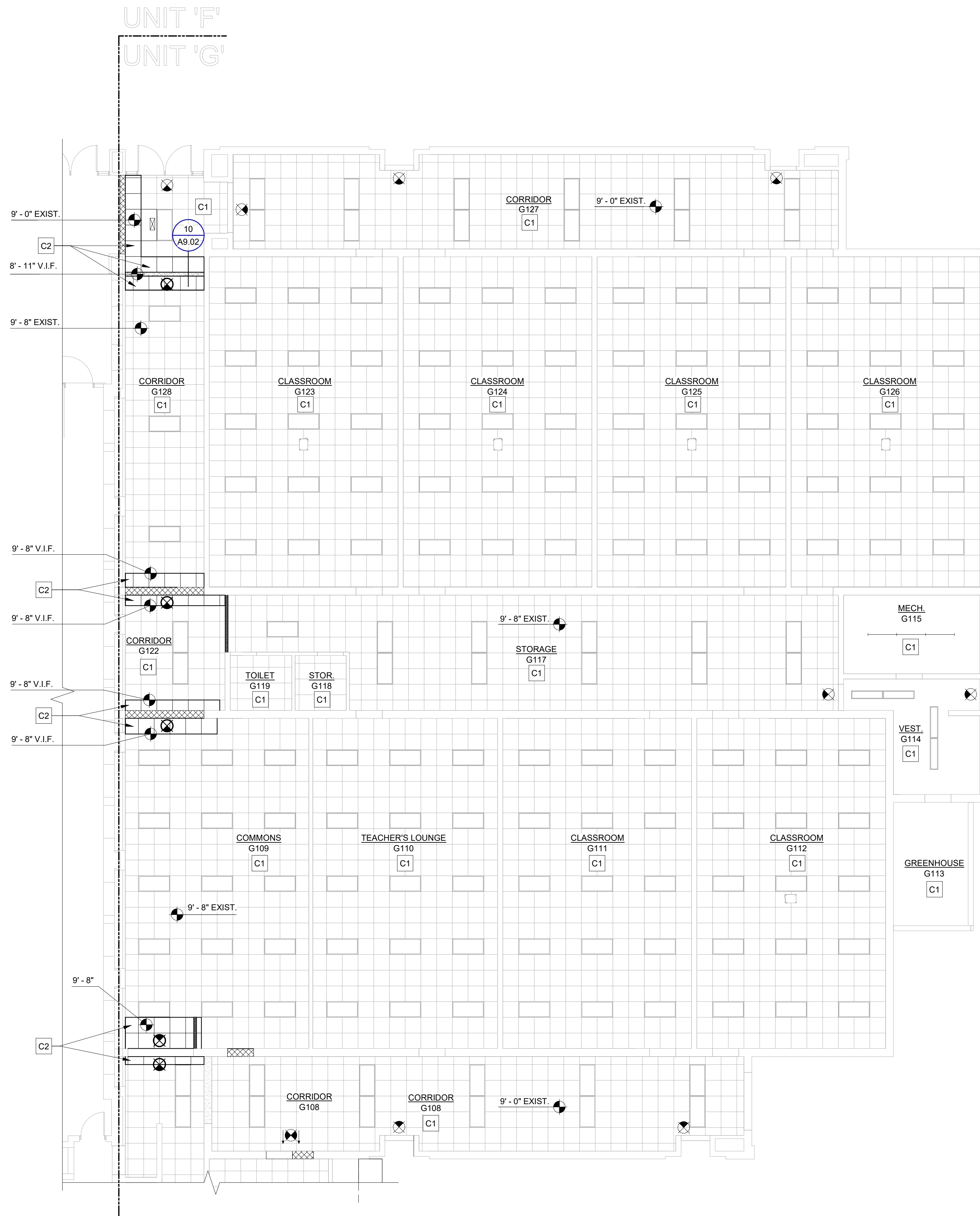
PROJECT TITLE
**RENOVATION FOR BCPS:
 BAY CITY EASTERN HIGH
 SCHOOL AT HANDY M.S.**

BAY CITY, MICHIGAN

SHEET TITLE
**FIRST FLOOR REFLECTED
 CEILING PLAN - UNIT 'F' &
 UNIT 'G'**

PROJECT NUMBER 2018040.16	SHEET NUMBER A9.01
PROJECT DATE FEBRUARY 1, 2024	CHECKED BY J.A.R.

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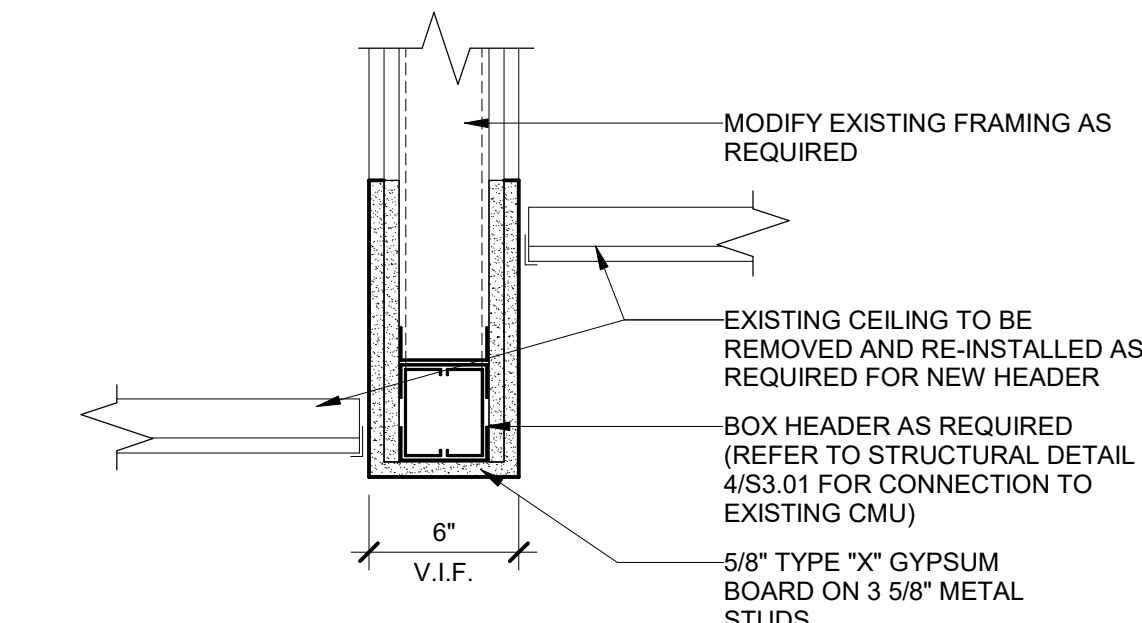
17
A9.02
FIRST FLOOR REFLECTED CEILING PLAN - UNIT 'G'
SCALE: 1/8" = 1'-0"

CEILING KEYNOTES

- C1 EXISTING CEILING TO REMAIN.
- C2 REMOVE AND RE-INSTALL EXISTING CEILING TILE AND GRID AS REQUIRED FOR DEMOLITION / NEW CONSTRUCTION
- C3 NEW AWNING (REFER TO EXTERIOR ELEVATION AND PHOTO DETAIL)
- C4 NEW GYPSUM BOARD SOFFIT ABOVE DRINKING FOUNTAINS

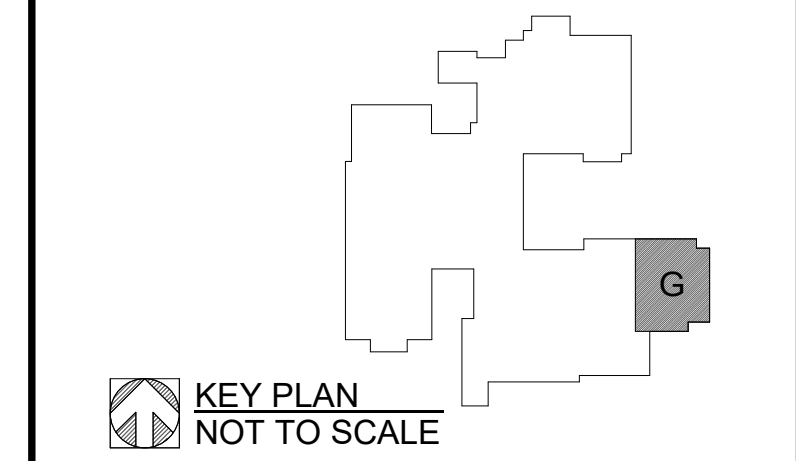
REFLECTED CEILING LEGEND:

- SAT-1: 2' x 2' CLEANABLE SUSPENDED ACOUSTICAL TILE
- SAT-2: 2' x 2' SUSPENDED ACOUSTICAL TILE
- GYPSUM BOARD SOFFIT
- CHAIN HUNG OR RECESSED LIGHT FIXTURES (REFER TO ELECTRICAL)
- SUPPLY AIR GRILLE (REFER TO MECHANICAL)
- RETURN AIR GRILLE (REFER TO MECHANICAL)
- EXISTING CEILING MOUNTED PROJECTOR TO REMAIN
- RADIANT CEILING PANEL (REFER TO MECHANICAL)
- EXISTING CEILING MOUNTED CABINET HEATER TO REMAIN (REFER TO MECHANICAL)
- EXIT FIXTURE (REFER TO ELECTRICAL)
- FIRE ALARM AND STROBE LIGHT (REFER TO ELECTRICAL)



10
A9.02
CEILING DETAIL
SCALE: 1 1/2" = 1'-0"

NO.	REVISION	DATE

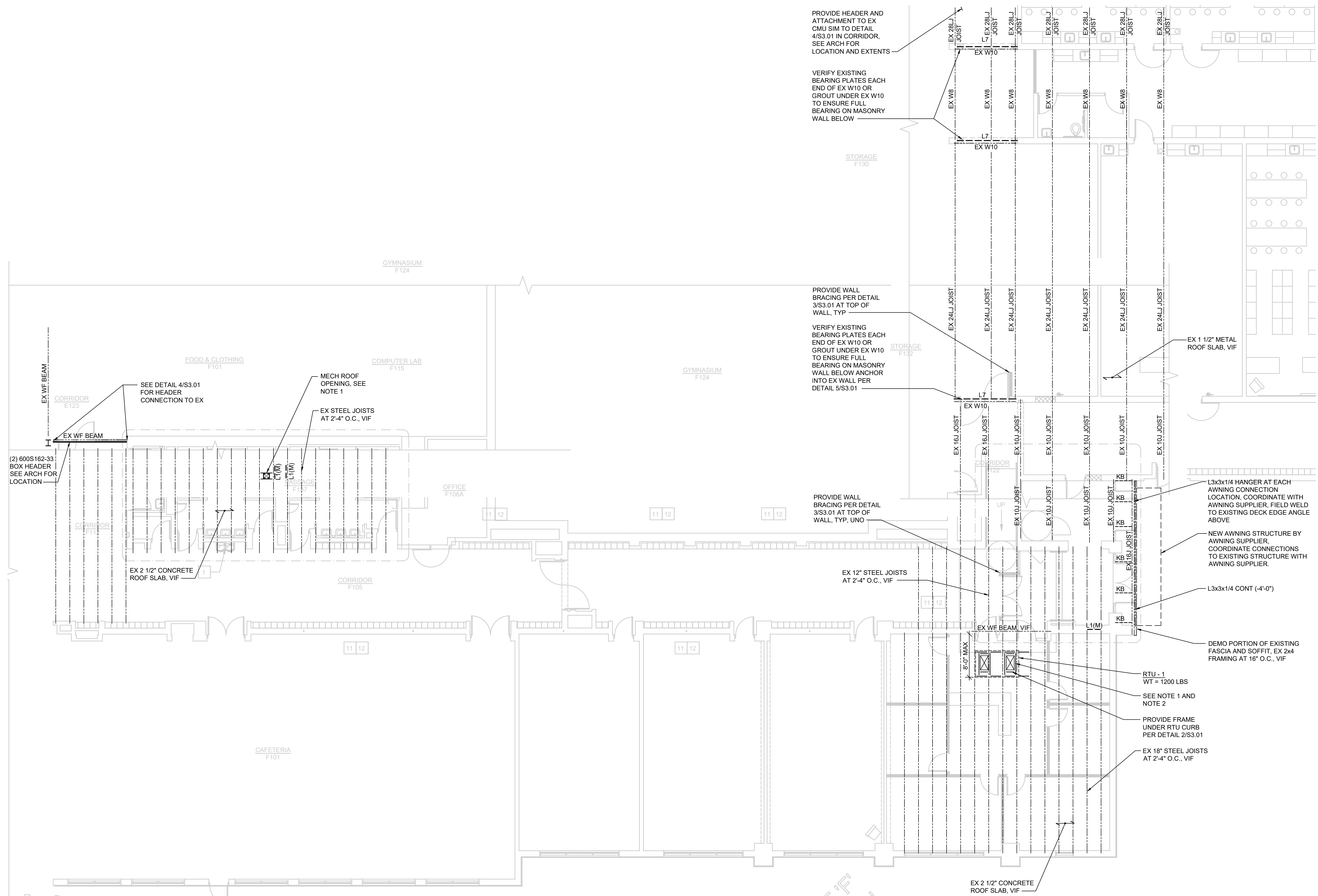


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PROJECT TITLE
 RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.
 BAY CITY, MICHIGAN

SHEET TITLE
FIRST FLOOR REFLECTED CEILING PLAN - UNIT 'G'

PROJECT NUMBER 2018040.16	SHEET NUMBER
PROJECT DATE FEBRUARY 1, 2024	A9.02
CHECKED BY J.A.R.	



PROVIDE HEADER AND ATTACHMENT TO EX CMU SIM TO DETAIL 4/S3.01 IN CORRIDOR. SEE ARCH FOR LOCATION AND EXTENTS

VERIFY EXISTING BEARING PLATES EACH END OF EX W10 OR GROUT UNDER EX W10 TO ENSURE FULL BEARING ON MASONRY WALL BELOW

STORAGE F130

PROVIDE WALL BRACING PER DETAIL 3/S3.01 AT TOP OF WALL, TYP

VERIFY EXISTING BEARING PLATES EACH END OF EX W10 OR GROUT UNDER EX W10 TO ENSURE FULL BEARING ON MASONRY WALL BELOW ANCHOR INTO EX WALL PER DETAIL 5/S3.01

STORAGE F132

PROVIDE WALL BRACING PER DETAIL 3/S3.01 AT TOP OF WALL, TYP, UNO

EX 12\"/>

EX 1 1/2\"/>

L3x3x1/4 HANGER AT EACH AWNING CONNECTION LOCATION, COORDINATE WITH AWNING SUPPLIER, FIELD WELD TO EXISTING DECK EDGE ANGLE ABOVE

NEW AWNING STRUCTURE BY AWNING SUPPLIER, COORDINATE CONNECTIONS TO EXISTING STRUCTURE WITH AWNING SUPPLIER.

L3x3x1/4 CONT (-4'-0\")

DEMO PORTION OF EXISTING FASCIA AND SOFFIT, EX 2x4 FRAMING AT 16\"/>

RTU - 1
WT = 1200 LBS

SEE NOTE 1 AND NOTE 2

PROVIDE FRAME UNDER RTU CURB PER DETAIL 2/S3.01

EX 18\"/>

EX 2 1/2\"/>

UNIT 'E'
UNIT 'F'

UNIT 'F'
UNIT 'G'

LEGEND

- L1 - STEEL LINTEL - SEE SCHEDULE SHEET S3.01
 - L1(M) - STEEL LINTEL AT MECHANICAL OPENING, VERIFY SIZE AND LOCATION WITH MECHANICAL TRADES
 - KB - L3x3x1/4 KNEE BRACE FROM BOTTOM OF HANGER TO EX B.O. DECK, LOCATE AT AWNING CONNECTION POINTS, COORDINATE WITH AWNING SUPPLIER
- SEE SHEET S3.1 FOR GENERAL NOTES

- NOTES:
1. VERIFY SIZE AND LOCATION OF OPENINGS WITH MECH TRADES. PROVIDE OPENING FRAME PER DETAIL 2/S3.01.
 2. NO EXISTING JOISTS OR BEAMS SHALL BE ALTERED OR CUT.

NORTH



ROOF FRAMING PLAN - UNIT "F" AND "G"

1/8"=1'-0" T.O. STEEL = B.O. EX DECK UNO

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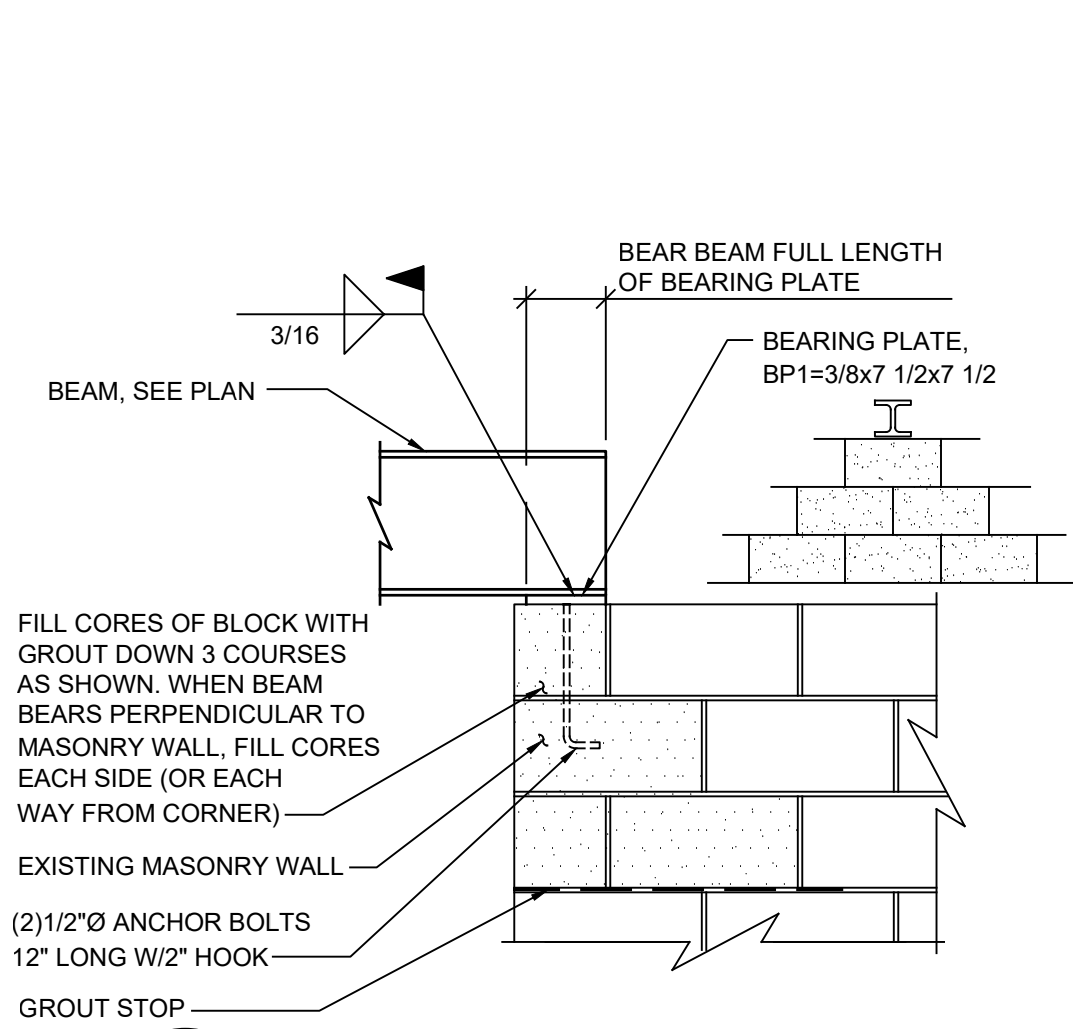
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SCHOOL AT HANDY M.S.**

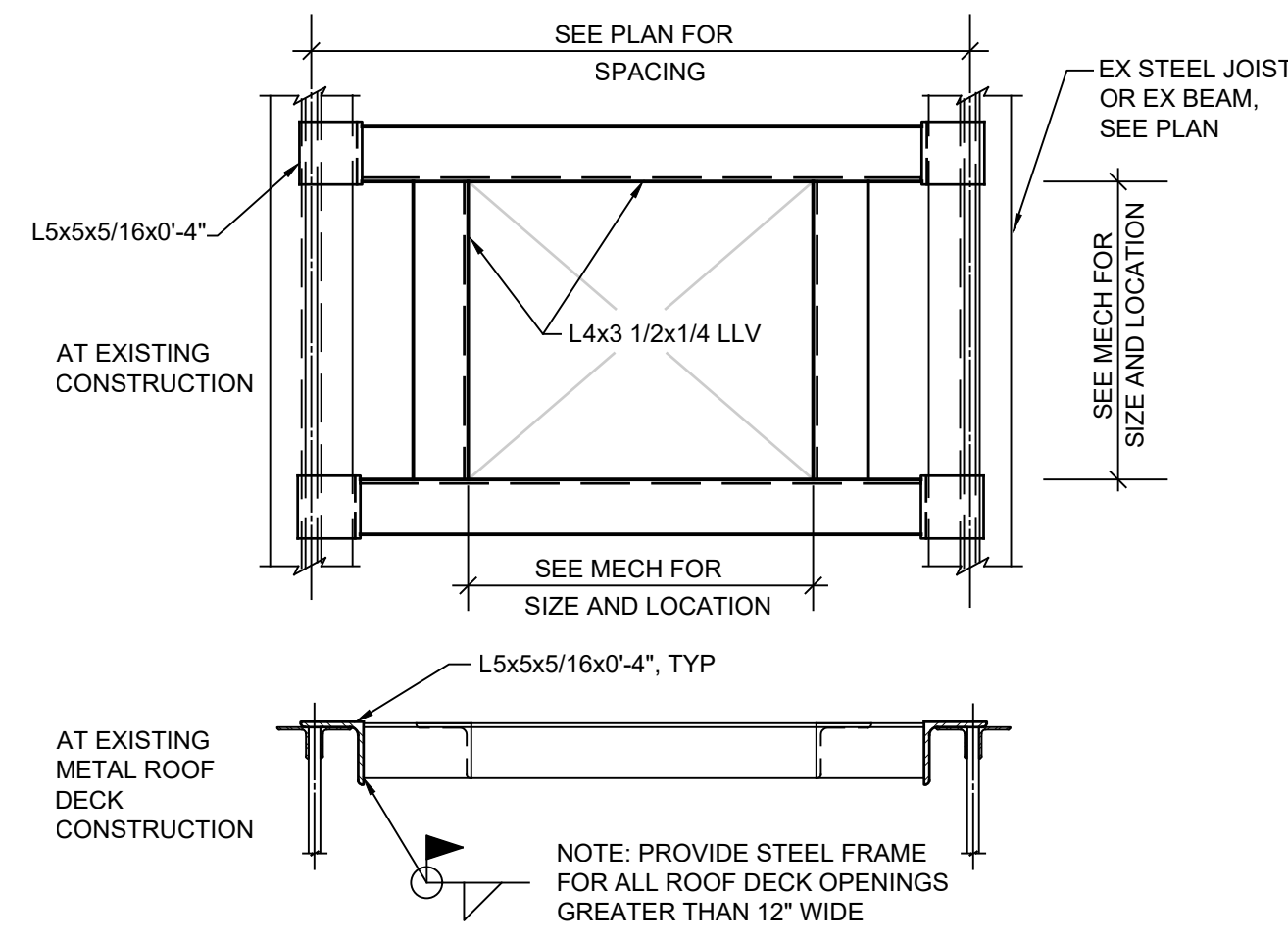
BAY CITY, MICHIGAN

SHEET TITLE
ROOF FRAMNG PLAN

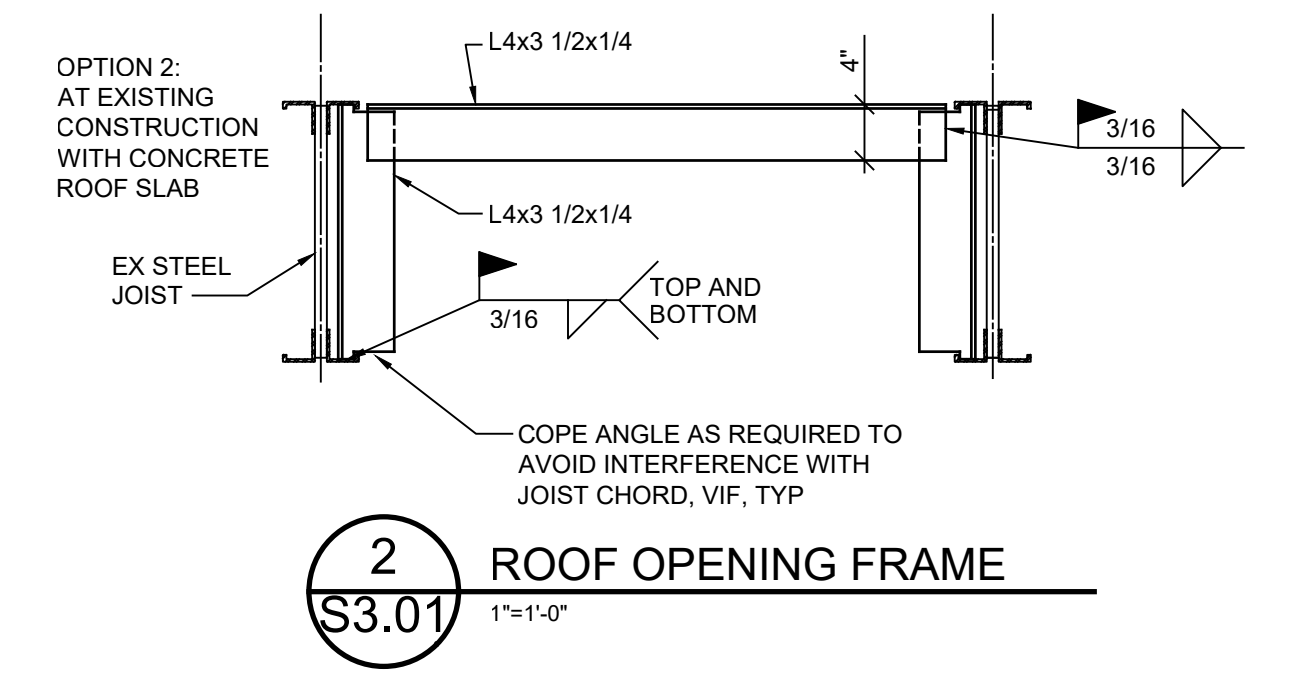
PROJECT NUMBER 2018040.16	SHEET NUMBER S2.01
PROJECT DATE FEBRUARY 1, 2024	
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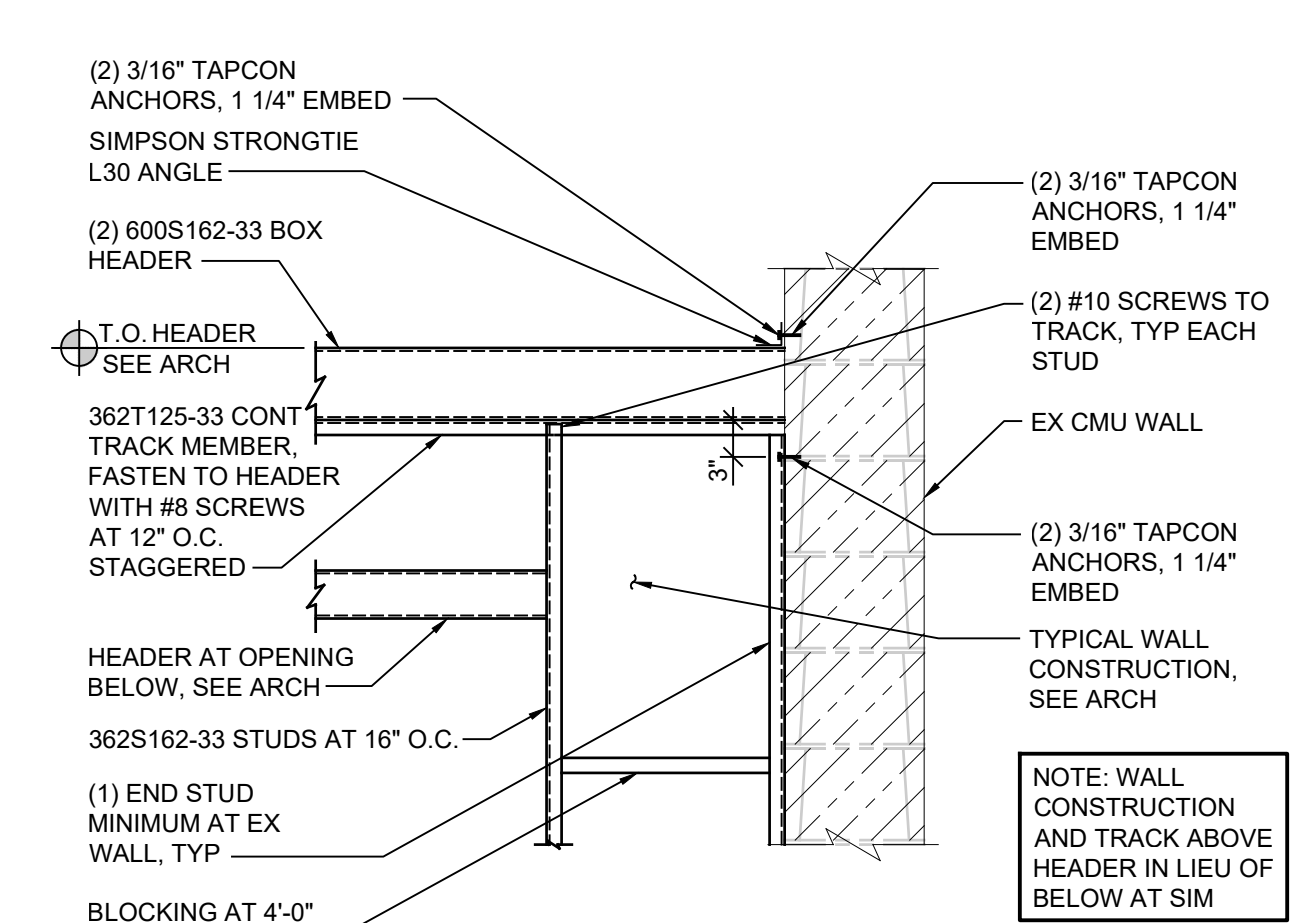
1 BEAM BEARING
S3.01 3/4"=1'-0" 2023-1548-S-Beam Bearing.dwg



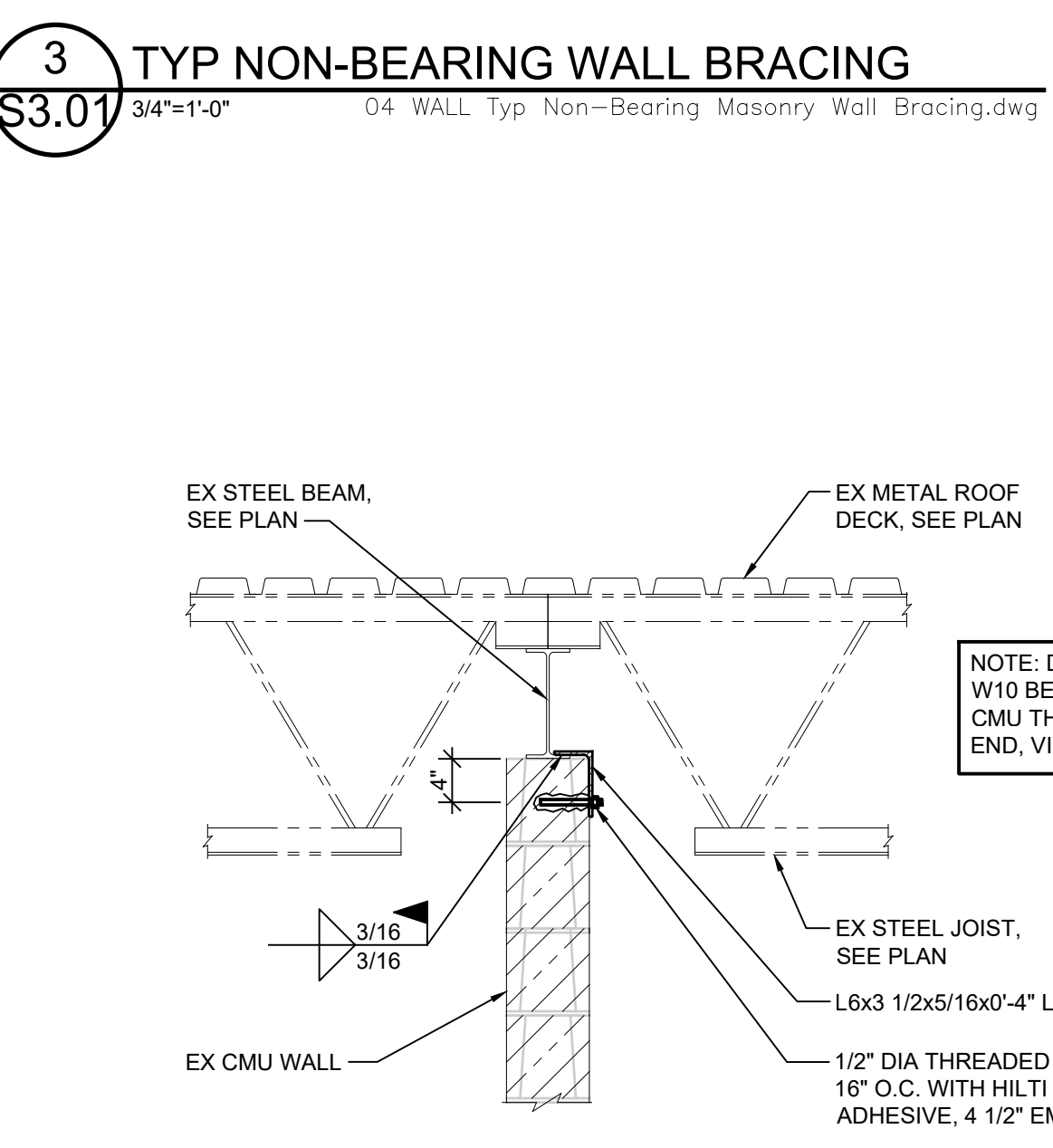
2 ROOF OPENING FRAME
S3.01 1"=1'-0"



3 TYP NON-BEARING WALL BRACING
S3.01 3/4"=1'-0" 04 WALL Typ Non-Bearing Masonry Wall Bracing.dwg



4 BOX HEADER ATTACHMENT TO EXISTING
S3.01 3/4"=1'-0" 2023-1548-S-Box Header Attachment To Existing.dwg



5 EXISTING W10 ANCHORAGE TO CMU
S3.01 3/4"=1'-0" 2023-1548-S-Existing W10 Anchorage To CMU.dwg

GENERAL

- VERIFY DIMENSIONS BEFORE COMMENCING WORK. REPORT DISCREPANCIES TO THE ARCHITECT.
- VERIFY OPENINGS IN THE FRAMING PLANS WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
- DESIGN LOADS:
 - DESIGN IN ACCORDANCE WITH MICHIGAN BUILDING CODE 2015.
 - ROOF SNOW LOAD: GROUND SNOW LOAD PG = 35 PSF
FLAT ROOF SNOW LOAD PF = 27 PSF
SNOW EXPOSURE FACTOR, CE = 1.0
SNOW LOAD IMPORTANCE FACTOR, I=1.1
THERMAL FACTOR, CT = 1.0
 - WIND LOADS: BASIC WIND SPEED, VULT = 120 MPH
VASD = 93 MPH
WIND EXPOSURE B
INTERNAL PRESSURE COEFFICIENT, GC PI = +/- 0.18

WALL COMPONENTS & GLAZING:

EFFECTIVE WIND AREA (FT2)	POSITIVE PRESSURE (PSF)	NEGATIVE PRESSURE (PSF)
-END ZONE		
10	23.7	31.8
20	22.7	29.5
50	21.3	26.7
100	20.2	24.6
-INTERIOR ZONE		
10	23.7	25.7
20	22.7	24.6
50	21.3	23.3
100	20.2	22.2

STRUCTURAL STEEL

- STRUCTURAL STEEL: FABRICATED AND ERECTED PER THE AISC MANUAL OF STEEL CONSTRUCTION.

HSS: ASTM A500 GR. B, FY = 46 KSI
W-BEAMS: ASTM A 992 GR. 50.
ALL OTHER SHAPES: ASTM A-36.
- WELDS: TO BE 70 KSI LOW HYDROGEN FILLER METAL PLACED BY WELDERS CERTIFIED IN WELD AND POSITION BY AWS D1.1, STRUCTURAL WELDING CODE. ALL WELDS SHALL BE APPLIED TO SURFACES FREE OF GREASE, PAINT, DIRT, OR OTHER HARMFUL MATERIAL.
- STEEL PRIMER: RUST INHIBITING ALKYD INDUSTRIAL PRIMER, 1.5 MIL DRY FILM THICKNESS UNLESS NOTED OTHERWISE.
- BEAM BEARING PLATES ARE TO BE LOCATED ON CENTER OF WALL UNLESS NOTED OTHERWISE. BEAR BEAM FULL LENGTH OF BEARING PLATES.
- BOLTED CONNECTIONS: 3/4" DIAMETER A-325 BOLTS WITH HEAVY HEX NUTS UNLESS NOTED. DESIGNED FOR BEARING CONNECTIONS, TIGHTENED TO SNUG TIGHT CRITERIA UNLESS NOTED OTHERWISE.
- BEAM CONNECTIONS SHALL BE DESIGNED TO SUPPORT ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY PER AISC. WHEREVER POSSIBLE, EXTEND CONNECTIONS FULL DEPTH OF BEAM.

LIGHT GAGE METAL FRAMING

- ALL STUDS SHALL BE FORMED FROM HOT-DIPPED GALVANIZED STEEL, G-60 COATING, CORRESPONDING TO THE REQUIREMENTS OF ASTM A653, STRUCTURAL QUALITY, GRADE 33, WITH A MINIMUM YIELD OF 33 KSI. MEMBERS DESIGNED PER AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS". MEMBER DESIGNATIONS IN ACCORDANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) I.E. 600-S-162-33.
- PROVIDE BLOCKING AT 4'-0" O.C. MAX AT WALLS, FRAMING AND AT JOIST BEARING.

MASONRY NOTES

- WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 530 SPECIFICATIONS.
- MORTAR: ASTM C270, TYPE M BELOW GRADE, TYPE M OR S ABOVE GRADE, TYPE N FOR NON-LOAD BEARING ABOVE GRADE.
- GROUT: ASTM C476, F'C=2000 PSI, TESTED PER ASTM C1019.
- REINFORCING BARS SHALL BE ASTM A-615, GRADE 60, LAP MINIMUM 45 BAR DIAMETERS FOR #5 BARS AND SMALLER, LAP MINIMUM 60 BAR DIAMETERS FOR #6 BARS.
- HORIZONTAL WALL REINFORCING: PER ASTM A-82, 9 GA, HOT DIPPED GALVANIZED PER ASTM A-153 (1.5 OZ PER SF), LADDER TYPE, EQUAL TO DUR-A-WALL. BED JOINTS AT 16" O.C. AND AT 1ST AND 2ND BED JOINTS AT BOTTOM OF WALL, TOP OF WALL, ABOVE LINTELS AND BELOW SILLS. REINFORCING CONTINUOUS EXCEPT AT VERTICAL CONTROL JOINTS. SIDE RODS LAPPED A MINIMUM OF 6" AT SPLICES. PROVIDE PREFABRICATED CORNERS AND TEES.
- CONCRETE MASONRY UNITS: ASTM C-90, GRADE N, TWO CORE TYPE FOR REINFORCED MASONRY. DESIGN BASED ON FM = 1900 PSI.
- VERTICAL WALL REINFORCING: 1 - #5 EACH SIDE OF MASONRY OPENINGS, CONTROL JOINTS AND AS SHOWN, FULL HEIGHT, IN GROUT FILLED BLOCK CORES.
- VERTICAL BAR REINFORCING: PLACE ACCURATELY AND MECHANICALLY HOLD IN POSITION WHILE GROUTING. GROUTING SHALL BE DONE IN LIFTS NOT EXCEEDING 4'-0" AND MECHANICALLY CONSOLIDATED IN PLACE, CONSOLIDATION BY RODDING NOT ACCEPTABLE.
- PROVIDE LINTELS FOR OPENINGS IN MASONRY WALLS OVER 8" WIDE. SEE SCHEDULE.
- TEMPORARY WALL BRACING IS THE CONTRACTORS RESPONSIBILITY. CONFORM TO APPLICABLE CODES AND STANDARDS.

STEEL LINTEL SCHEDULE			
MARK	CLEAR SPAN	SIZE	BEARING EACH END
L1	4'-0"	L3 1/2x2 1/2x1/4 SLV	4"
L2	5'-0"	L3 1/2x3x1/4 SLV	6"
L3	6'-0"	L3 1/2x3 1/2x1/4	6"
L4	7'-0"	L4x3 1/2x1/4 LLV	6"
L5	8'-0"	L5x3 1/2x1/4 LLV	8"
L6	9'-0"	L6x3 1/2x 3/8 LLV	8"

MARK	SIZE	BEARING EACH END
L7	W8x24 + PL 1/4x0'-11 1/2"	8"

- NOTE: 1. GROUT BELOW BEAM BEARING PER DETAIL 1/S3.01.
2. BEARING LENGTH IS OVER CMU OR COMPOSITE BRICK / BLOCK. DO NOT BEAR ON BRICK VENEER.
3. ANCHOR MASONRY TO BEAMS W/ 9 GA WIRE TIES EACH SIDE AT 2'-8" O.C.
4. PROVIDE STEEL LINTELS AT ALL MASONRY WALL OPENINGS, INCLUDING MECHANICAL AND ELECTRICAL GREATER THAN 8" WIDE. SEE LINTEL SCHEDULE.

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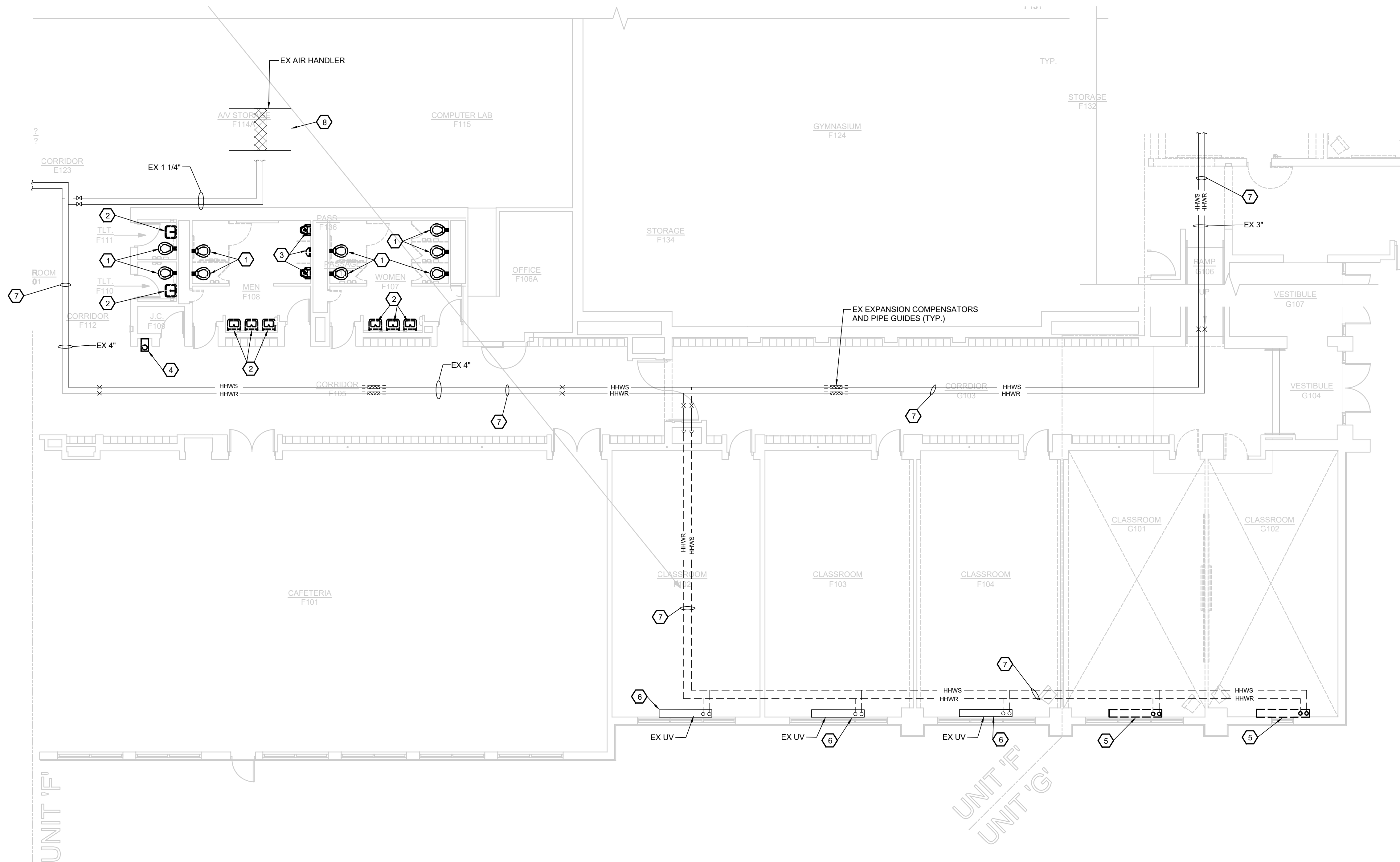
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PROJECT TITLE
RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN

SHEET TITLE
NOTES, SCHEDULES AND DETAILS

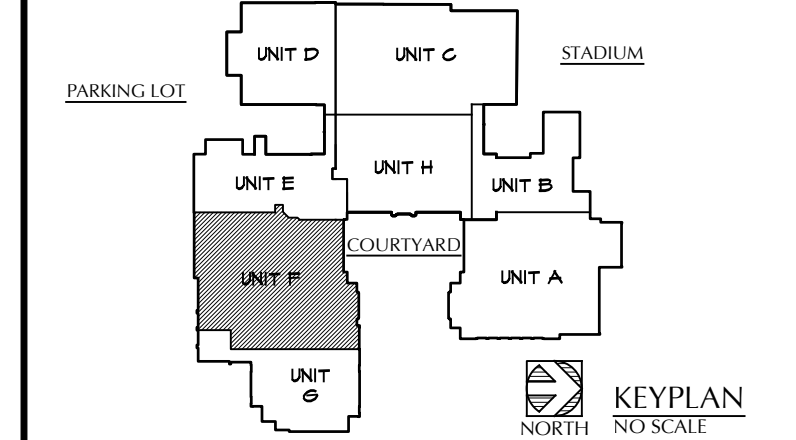
PROJECT NUMBER 2018040.16	SHEET NUMBER S3.01
PROJECT DATE FEBRUARY 1, 2024	
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- GENERAL NOTES:**
- CONTRACTOR SHALL FIELD VERIFY ALL MATERIALS AND EQUIPMENT BEFORE STARTING WORK.
 - COORDINATE ALL DEMOLITION WORK WITH NEW WORK, ESPECIALLY IN REGARDS TO NEW CONNECTIONS.
 - THE INTENT OF THE DRAWING IS TO REMOVE ALL MATERIALS AND EQUIPMENT WITH A DASHED AND DARKER LINE TYPE.
 - PIPING REMOVED SHALL ALSO INCLUDE THE REMOVAL OF ALL FITTINGS, SUPPORTS, AND INSULATION ASSOCIATED WITH PORTIONS OF PIPE SHOWN TO BE REMOVED.
 - THE GENERAL TRADE SHALL BE RESPONSIBLE FOR REMOVAL AND PATCHING OF ANY SOFFITS, WALL SECTIONS, ETC. REQUIRED TO GAIN ACCESS TO PIPING, EQUIPMENT, ETC. TO BE REMOVED.
 - COORDINATE WITH OWNER FOR ALL EQUIPMENT AND SYSTEM SHUT DOWNS AND PROVIDE OWNER WITH A MINIMUM OF 2 WEEKS NOTICE.

- KEYED NOTES:**
- REMOVE EXISTING WATER CLOSET. REMOVAL SHALL INCLUDE WATER CLOSET, FLUSH VALVE, ALL PLUMBING PIPING, ETC. EXISTING SANITARY PIPING SHALL REMAIN FOR NEW FIXTURES.
 - REMOVE EXISTING LAVATORY. REMOVAL SHALL INCLUDE ALL PLUMBING PIPING CONNECTIONS, THERMOSTATIC MIXING VALVE, PROTECTIVE PIPING COVERS, ETC. EXISTING SANITARY AND DOMESTIC WATER PIPING SHALL REMAIN FOR NEW FIXTURE CONNECTIONS.
 - REMOVE EXISTING URINAL. REMOVAL SHALL INCLUDE ALL PLUMBING PIPING, FLUSH VALVES, ETC. EXISTING SANITARY AND DOMESTIC WATER PIPING SHALL REMAIN FOR NEW FIXTURE CONNECTIONS.
 - EXISTING ELECTRIC WATER COOLER TO BE REMOVED. EXISTING SANITARY DRAIN, DOMESTIC WATER, VENT PIPING, ETC. SHALL BE REMOVED BACK TO WALL AND CAPPED AIR/WATER TIGHT AT WALL. FIELD VERIFY EXACT LOCATIONS.
 - EXISTING UNIT VENTILATOR TO BE REMOVED. REMOVE HEATING HOT WATER SUPPLY AND RETURN PIPING BACK TO BELOW FLOOR AND CAP AIR/WATER TIGHT BELOW FLOOR. PATCH OPENING IN FLOOR TO MATCH ADJACENT FLOOR MATERIAL. COORDINATE WITH ARCHITECTURAL PLANS.
 - EXISTING UNIT VENTILATOR TO REMAIN.
 - EXISTING HEATING HOT WATER PIPING TO REMAIN (TYP.).
 - EXISTING AIR HANDLER TO REMAIN.

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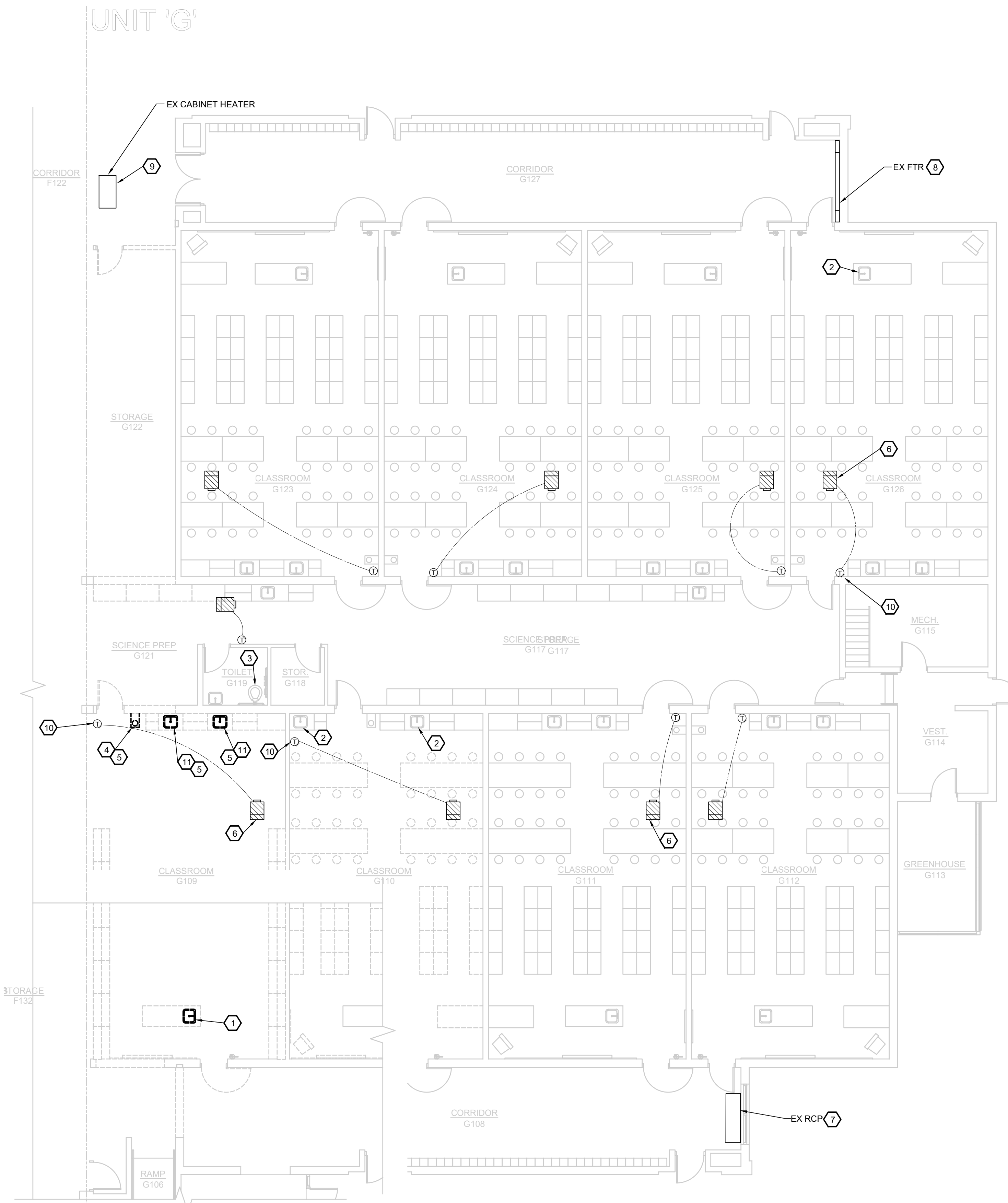
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PROJECT TITLE
 RENOVATION FOR BCPS:
 BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.
 BAY CITY, MICHIGAN

SHEET TITLE
 FIRST FLOOR PLAN
 UNIT "F" - MECHANICAL AND PLUMBING DEMOLITION

PROJECT NUMBER 2018040.16	SHEET NUMBER M1.01
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY GRS	

NORTH
 FIRST FLOOR PLAN - UNIT "F" - MECHANICAL AND PLUMBING DEMOLITION
 1/8"=1'-0"



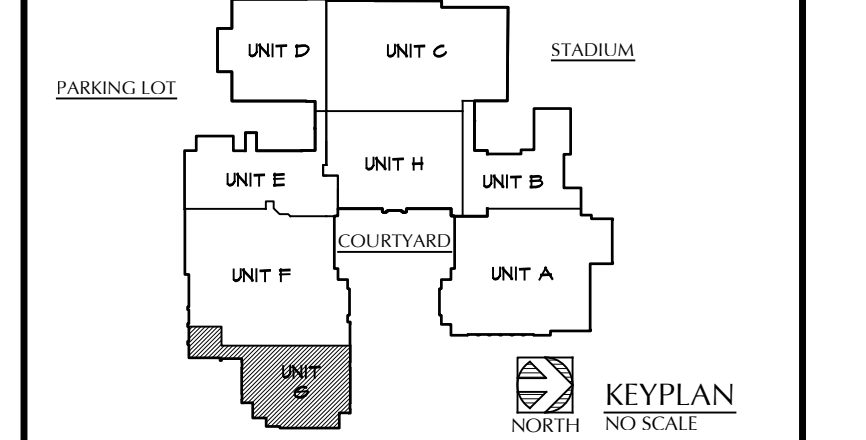
GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL MATERIALS AND EQUIPMENT BEFORE STARTING WORK.
2. COORDINATE ALL DEMOLITION WORK WITH NEW WORK, ESPECIALLY IN REGARDS TO NEW CONNECTIONS.
3. THE INTENT OF THE DRAWING IS TO REMOVE ALL MATERIALS AND EQUIPMENT WITH A DASHED AND DARKER LINE TYPE.
4. PIPING REMOVED SHALL ALSO INCLUDE THE REMOVAL OF ALL FITTINGS, SUPPORTS, AND INSULATION ASSOCIATED WITH PORTIONS OF PIPE SHOWN TO BE REMOVED.
5. THE GENERAL TRADE SHALL BE RESPONSIBLE FOR REMOVAL AND PATCHING OF ANY SOFFITS, WALL SECTIONS, ETC. REQUIRED TO GAIN ACCESS TO PIPING, EQUIPMENT, ETC. TO BE REMOVED.
6. COORDINATE WITH OWNER FOR ALL EQUIPMENT AND SYSTEM SHUT DOWNS AND PROVIDE OWNER WITH A MINIMUM OF 2 WEEKS NOTICE.

KEYED NOTES:

1. REMOVE EXISTING CLASSROOM SINK. REMOVE PIPING IN CABINET BACK TO BELOW FLOOR AND CAP AIR/WATER TIGHT BELOW FLOOR. REMOVAL SHALL INCLUDE ALL ASSOCIATED PLUMBING PIPING, FAUCETS, VALVES, ETC. REPAIR FLOOR AS NECESSARY WITH MATERIAL TO MATCH ADJACENT FLOOR MATERIAL. FIELD VERIFY EXACT LOCATION OF EXISTING PLUMBING PIPING, ETC.
2. EXISTING SINK/LAVATORY TO REMAIN (TYP).
3. EXISTING WATER CLOSET TO REMAIN.
4. EXISTING EMERGENCY EYEWASH SHALL BE REMOVED.
5. REMOVE EXISTING PLUMBING PIPING, VALVES, ETC. BACK TO WALL AND/OR BELOW FLOOR AND CAP IN WALL OR BELOW FLOOR. FIELD VERIFY EXACT CAP LOCATION.
6. EXISTING VAV BOX TO REMAIN (TYP).
7. EXISTING RADIANT CEILING PANEL TO REMAIN.
8. EXISTING FINNED TUBE RADIATION TO REMAIN.
9. EXISTING CABINET HEATER TO REMAIN.
10. EXISTING THERMOSTAT TO REMAIN (TYP).
11. EXISTING SCIENCE SINK SHALL BE CAREFULLY REMOVED AND RELOCATED. REMOVAL AND RELOCATION SHALL INCLUDE SINK, FAUCET, THERMOSTATIC MIXING VALVE, ETC. SINK AND CASEWORK SHALL BE REUSED IN ROOM A106. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.

NO.	REVISION	DATE



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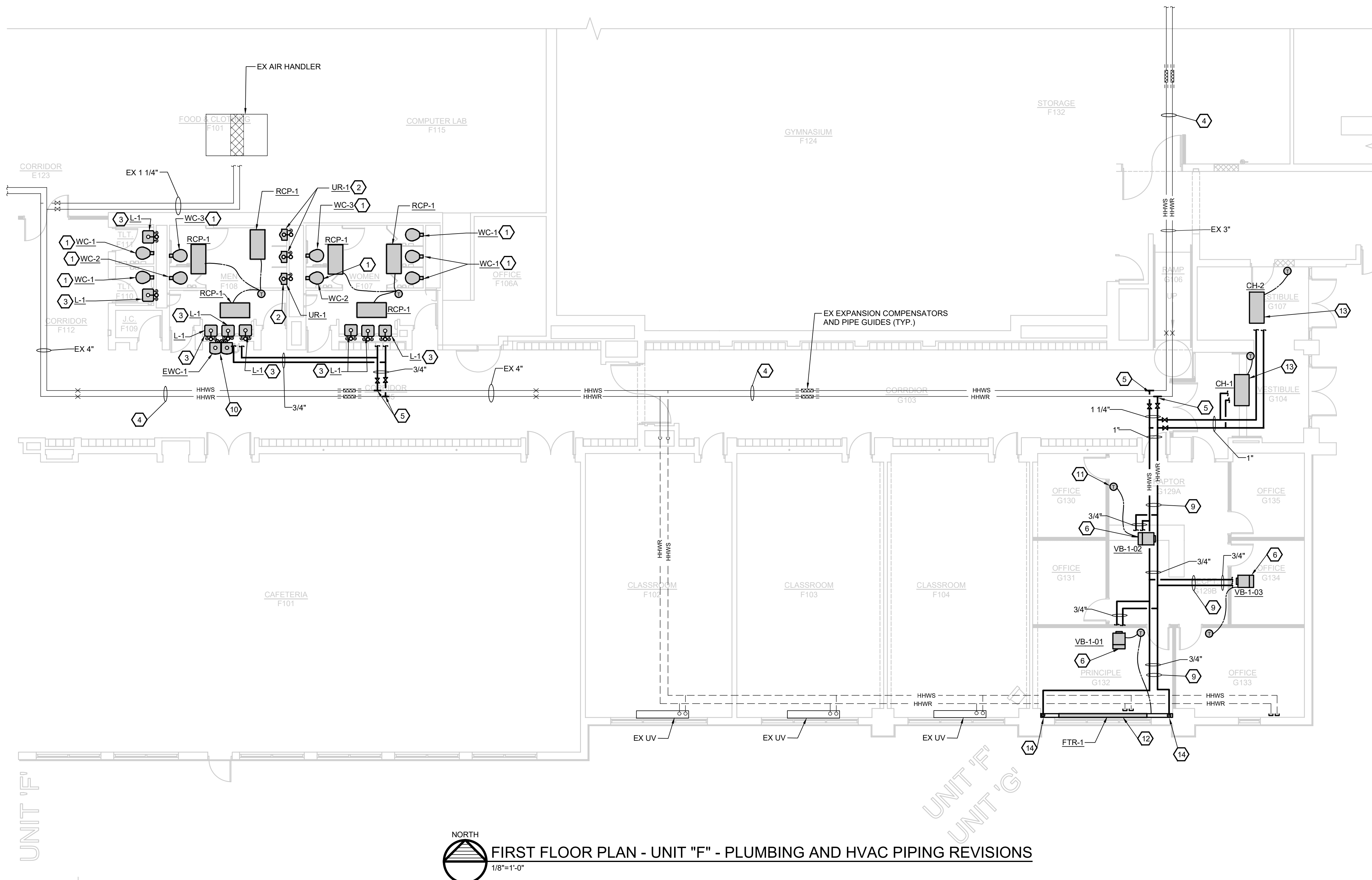
PROJECT TITLE
 RENOVATION FOR BCPS:
 BAY CITY EASTERN HIGH
 SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN

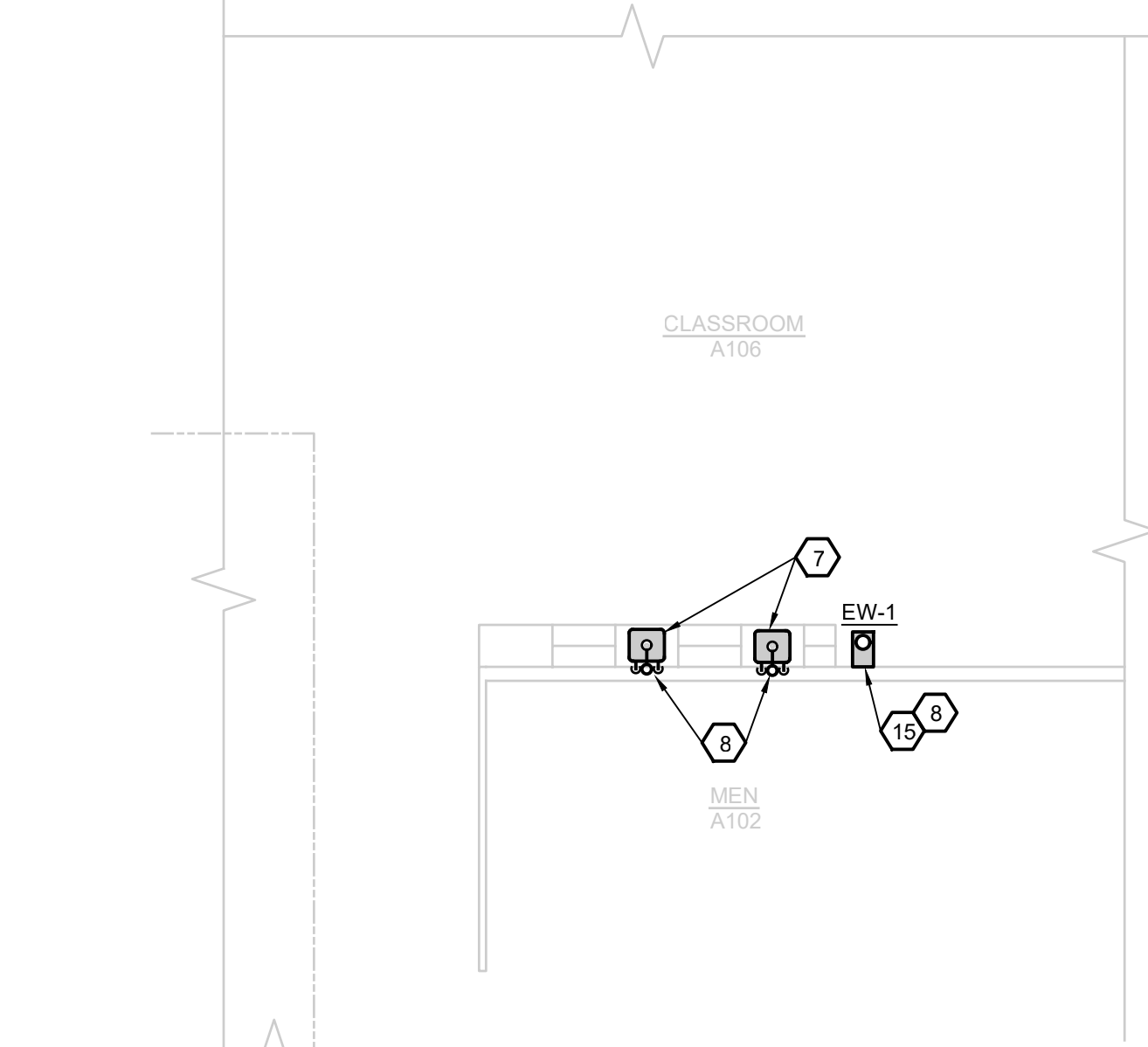
SHEET TITLE
 FIRST FLOOR PLAN
 UNIT "G" - MECHANICAL
 AND PLUMBING DEMOLITION

PROJECT NUMBER 2018040.16	SHEET NUMBER M1.02
PROJECT DATE FEBRUARY 1, 2024	
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NORTH
 1/8"=1'-0"
FIRST FLOOR PLAN - UNIT "G" - MECHANICAL AND PLUMBING DEMOLITION



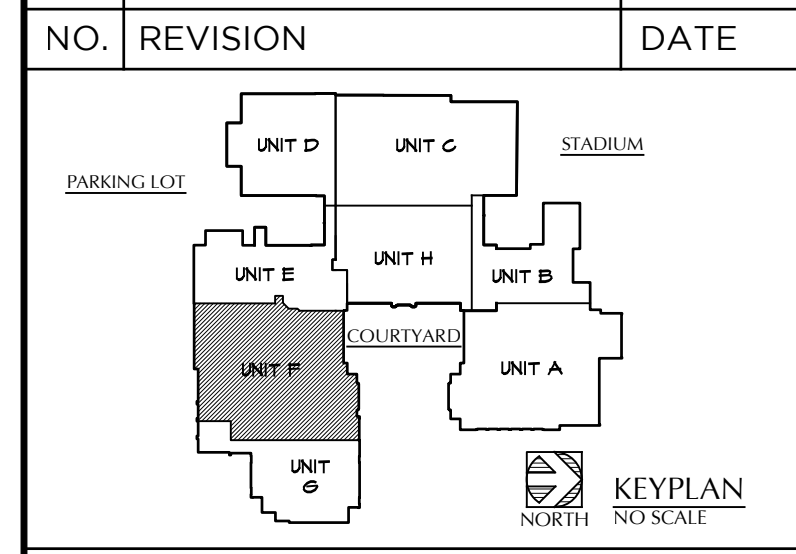
NORTH
 1/8"=1'-0"
FIRST FLOOR PLAN - UNIT "F" - PLUMBING AND HVAC PIPING REVISIONS



FIRST FLOOR PLAN - UNIT "A" - PLUMBING AND HVAC PIPING REVISIONS
 1/8"=1'-0"

- KEYED NOTES:**
- 1 FURNISH AND INSTALL NEW WATER CLOSET. UTILIZE EXISTING PLUMBING PIPING FOR NEW CONNECTIONS. REVISE AND EXTEND PIPING AS NECESSARY FOR NEW CONNECTIONS. FIELD VERIFY EXACT LOCATIONS.
 - 2 FURNISH AND INSTALL NEW URINAL. UTILIZE EXISTING PLUMBING PIPING FOR NEW CONNECTIONS. REVISE AND EXTEND PIPING AS NECESSARY FOR NEW CONNECTIONS. FIELD VERIFY EXACT LOCATIONS. UTILIZE EXISTING CARRIER AND PROVIDE NEW HARDWARE.
 - 3 FURNISH AND INSTALL NEW LAVATORY. UTILIZE EXISTING PLUMBING PIPING FOR NEW CONNECTIONS. REVISE AND EXTEND PIPING AS NECESSARY FOR NEW CONNECTIONS. FIELD VERIFY EXACT LOCATIONS. UTILIZE EXISTING CARRIER AND PROVIDE NEW HARDWARE.
 - 4 EXISTING HEATING HOT WATER PIPING ROUTED ABOVE CEILING TO REMAIN.
 - 5 CONNECT NEW HEATING HOT WATER PIPING TO EXISTING HEATING HOT WATER PIPING MAINS IN CORRIDOR. PROVIDE SHUT-OFF VALVE AT CONNECTION. FIELD VERIFY EXACT CONNECTION LOCATION.
 - 6 INSTALL NEW VARIABLE AIR VOLUME BOX ABOVE CEILING TO PROVIDE PROPER ACCESS TO CONTROLLER/CONTROLS. PROVIDE 36" OF STRAIGHT DUCT ON INLET OF VAV BOX.
 - 7 NEW LOCATION OF RELOCATED SINK. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.
 - 8 CONNECT TO EXISTING DOMESTIC HOT AND COLD WATER AND DRAIN PIPING IN WALL. GENERAL TRADES SHALL REMOVE EXISTING WALL AS REQUIRED TO CONNECT TO EXISTING PLUMBING IN WALL. COORDINATE WITH ARCHITECT.
 - 9 ROUTE NEW HEATING HOT WATER PIPING ABOVE CEILING. ROUTE AS NECESSARY TO AVOID ALL EXISTING PLUMBING PIPING, ELECTRICAL ETC. ABOVE CEILING. FIELD VERIFY EXACT ROUTING LOCATION.
 - 10 FURNISH AND INSTALL NEW ELECTRIC WATER COOLER. CONNECT NEW 1-1/2" DOMESTIC COLD WATER, 2" SANITARY DRAIN AND 1" VENT PIPING TO EXISTING PIPING IN WALL. REMOVE AND PATCH WALL AS NECESSARY FOR NEW CONNECTIONS. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. FIELD VERIFY EXACT LOCATION WITH EXISTING CONDITIONS.
 - 11 NEW THERMOSTAT MOUNTED 48" AFF (TYP).
 - 12 FURNISH AND INSTALL NEW 12' LONG FINNED TUBE RADIATION BELOW WINDOW ON EXTERIOR WALL. HEATING HOT WATER SUPPLY AND RETURN PIPING SHALL BE ROUTED DOWN INSIDE FUR (REFER TO ARCHITECTURAL PLANS). REFER TO MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS FOR INSTALLATION.
 - 13 FURNISH AND INSTALL NEW CABINET HEATER RECESSED IN CEILING SPACE. HEATING HOT WATER SUPPLY AND RETURN PIPING SHALL BE ROUTED FROM EXISTING MAINS IN CEILING SPACE TO NEW CABINET HEATER. REFER TO MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
 - 14 ROUTE NEW HEATING HOT WATER PIPING DOWN IN WALL TO SERVE FIN TUBE.
 - 15 NEW BARRIER FREE EYE/FACE WASH. CONNECT TO EXISTING PLUMBING PIPING IN WALL. INSTALL PER CODE AND MANUFACTURER REQUIREMENTS.

- GENERAL NOTES:**
1. MECHANICAL TRADES SHALL PROVIDE AND LOCATE CEILING AND ACCESS DOORS AS REQUIRED FOR ACCESS TO EQUIPMENT. ACCESS TO BE INSTALLED BY ARCHITECTURAL TRADES.
 2. COORDINATE ALL PIPING LOCATED ABOVE THE FLOOR AND IN THE CEILING SPACE WITH ALL OTHER TRADES WITH SPECIAL ATTENTION TO THE SHEET METAL TRADES. ROUTE PIPING AS NECESSARY TO AVOID CONFLICTS WITH ALL OTHER TRADES.
 3. FURNISH AND INSTALL ISOLATION BALL VALVES ON ALL BRANCH PIPING TO EACH FIXTURE OR BRANCH CONNECTION.
 4. ALL PLUMBING, PIPING, ETC. SHALL BE INSTALLED PER STATE/LOCAL CODES.
 5. NO PIPING SHALL BE LOCATED DIRECTLY ABOVE ELECTRICAL PANELS OR DEVICES. NO PIPING SHALL BE ALLOWED WITHIN 3'-0" OF PANELS, UNLESS PIPING IS HIGHER THAN 7'-0" ABOVE FINISHED FLOOR. VERIFY ALL PIPE ROUTING WITH ELECTRICAL TRADES.



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PROJECT TITLE
**RENOVATION FOR BCPS:
 BAY CITY EASTERN HIGH
 SCHOOL AT HANDY M.S.**

BAY CITY, MICHIGAN

SHEET TITLE
**FIRST FLOOR PLAN
 UNIT "F" - PLUMBING AND
 HVAC PIPING REVISIONS**

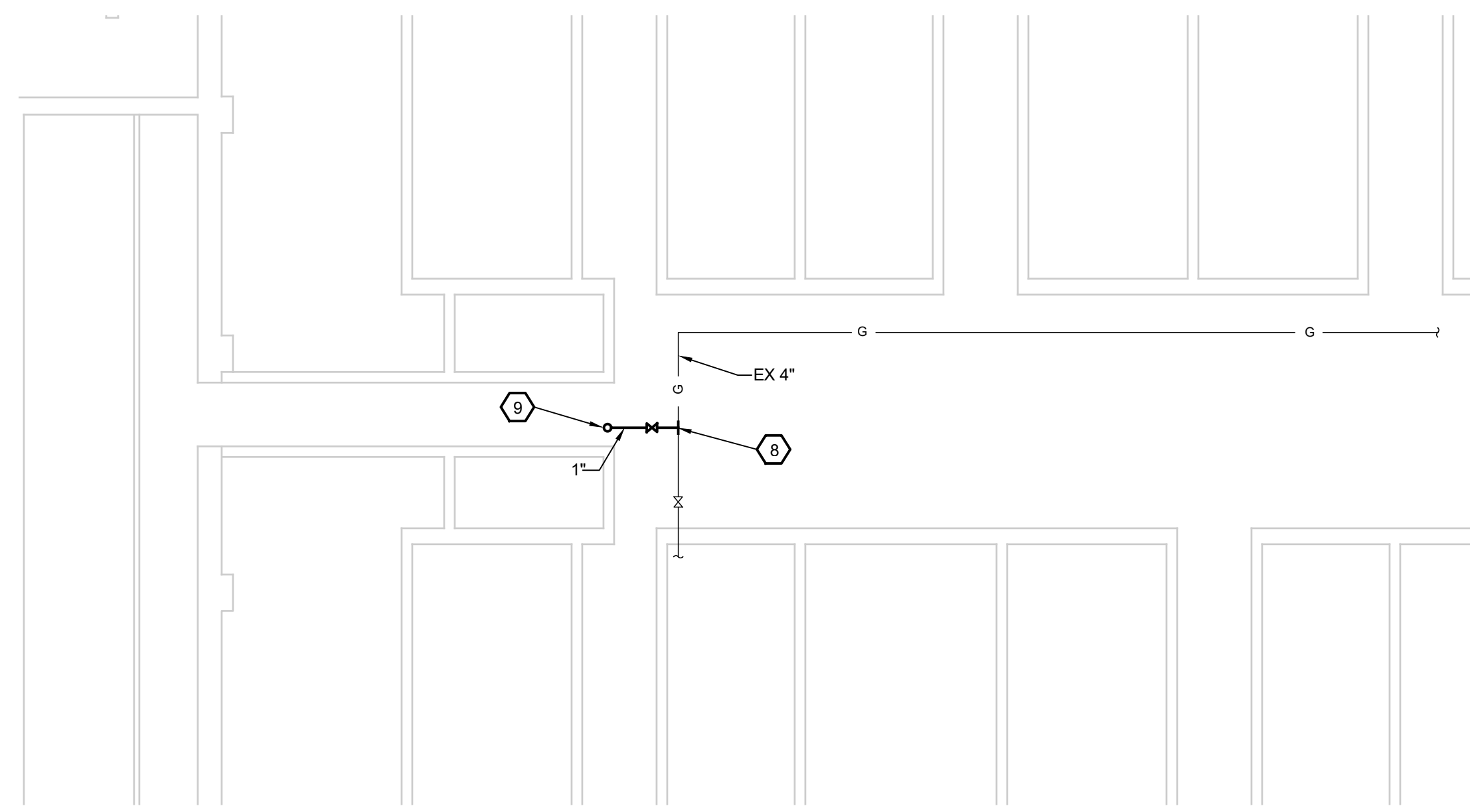
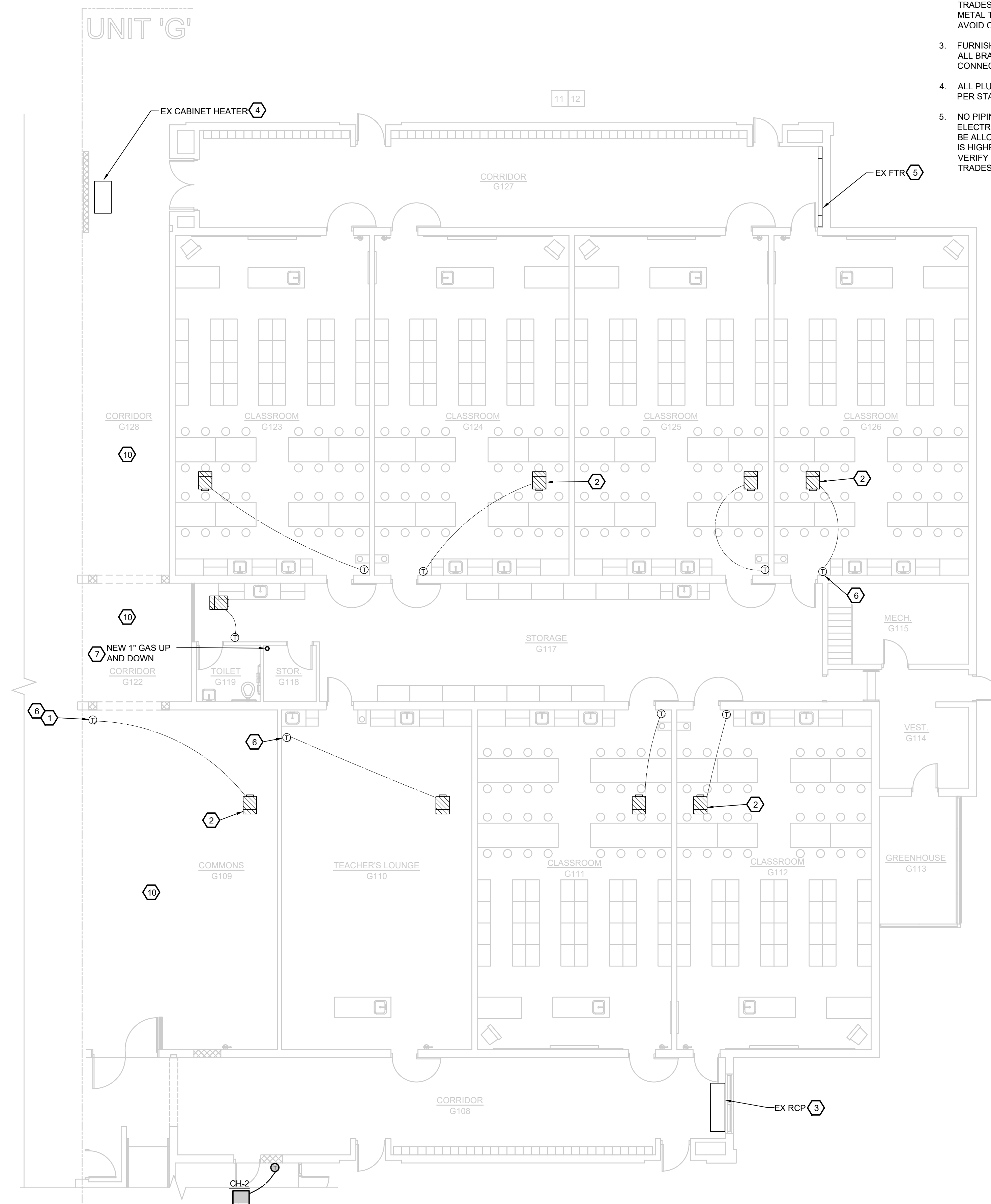
PROJECT NUMBER 2018040.16	SHEET NUMBER M2.01
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GENERAL NOTES:

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- COORDINATE ALL PIPING LOCATED ABOVE THE FLOOR AND IN THE CEILING SPACE WITH ALL OTHER TRADES WITH SPECIAL ATTENTION TO THE SHEET METAL TRADES. ROUTE PIPING AS NECESSARY TO AVOID CONFLICTS WITH ALL OTHER TRADES.
- FURNISH AND INSTALL ISOLATION BALL VALVES ON ALL BRANCH PIPING TO EACH FIXTURE OR BRANCH CONNECTION.
- ALL PLUMBING, PIPING, ETC. SHALL BE INSTALLED PER STATE/LOCAL CODES.
- NO PIPING SHALL BE LOCATED DIRECTLY ABOVE ELECTRICAL PANELS OR DEVICES. NO PIPING SHALL BE ALLOWED WITHIN 3'-0" OF PANELS, UNLESS PIPING IS HIGHER THAN 7'-0" ABOVE FINISHED FLOOR. VERIFY ALL PIPE ROUTING WITH ELECTRICAL TRADES.

KEYED NOTES:

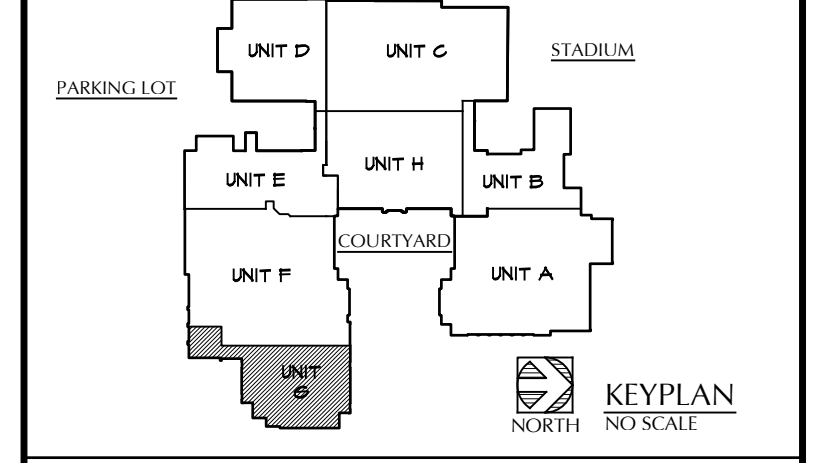
- FURNISH AND INSTALL VANDAL PROOF PROTECTIVE COVER FOR EXISTING THERMOSTAT. FIELD VERIFY EXACT LOCATION AND SIZE OF THERMOSTAT.
- EXISTING VAV BOX TO REMAIN (TYP).
- EXISTING RADIANT CEILING PANEL TO REMAIN.
- EXISTING CABINET HEATER TO REMAIN.
- EXISTING FINNED TUBE RADIATION TO REMAIN.
- EXISTING THERMOSTAT TO REMAIN (TYP).
- NEW NATURAL GAS PIPING ROUTED FROM ROOF DOWN TO EXISTING 4" NATURAL GAS MAIN IN TUNNEL. ROUTE PIPING DOWN ALONG WALL INSIDE STORAGE ROOM EXPOSED.
- CONNECT NEW NATURAL GAS PIPING TO EXISTING NATURAL GAS PIPING IN TUNNEL. CONNECT NEW NATURAL GAS PIPING DOWNSTREAM OF EXISTING SHUT-OFF VALVE. INSTALL SHUT-OFF VALVE IN NEW BRANCH NATURAL GAS PIPING AT TAKE-OFF. FIELD VERIFY EXACT PIPING ROUTES AND NEW CONNECTION LOCATION.
- NEW NATURAL GAS PIPING ROUTED UP THROUGH ROOF FROM CONNECTION IN TUNNEL. FIELD VERIFY EXACT PIPING ROUTE WITH ALL EXISTING CONDITIONS AND ROUTE AS NECESSARY TO AVOID ALL EXISTING PLUMBING PIPING, DUCTWORK, ELECTRICAL, ETC.
- REMOVE AND REINSTALL DIFFUSERS AND GRILLES AS REQUIRED FOR NEW CEILINGS TO BE INSTALLED.



PARTIAL TUNNEL PLAN - PLUMBING AND HVAC REVISIONS
1/8"=1'-0"

FIRST FLOOR PLAN - UNIT "G" - PLUMBING AND HVAC REVISIONS
1/8"=1'-0"

NO.	REVISION	DATE



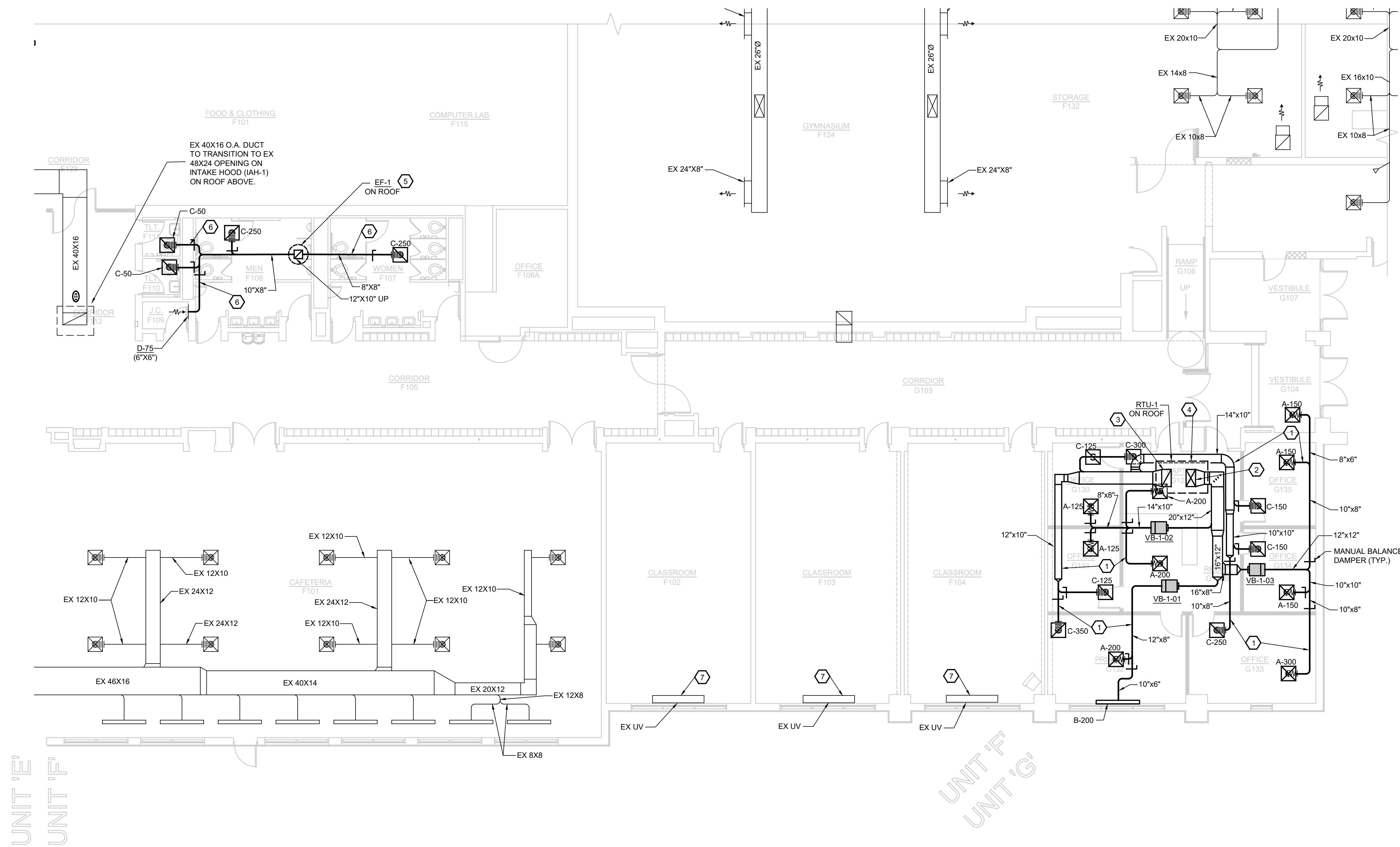
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PROJECT TITLE
RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.
BAY CITY, MICHIGAN

SHEET TITLE
FIRST FLOOR PLAN
UNIT "G" - PLUMBING AND HVAC REVISIONS

PROJECT NUMBER 2018040.16	SHEET NUMBER M2.02
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GENERAL NOTES:

- COORDINATE ROUTES/LOCATIONS OF ALL DUCTWORK, DIFFUSERS, ETC. WITH ALL CONDITIONS, OTHER TRADES ETC. THE MECHANICAL TRADE SHALL BE RESPONSIBLE FOR ROUTING DUCT THROUGH JOIST SPACE AS REQUIRED TO AVOID CONFLICTS WITH OTHER SYSTEMS, DUCTWORK, ETC. FURNISH AND INSTALL ALL FITTINGS, DUCTWORK, ETC. TO OFFSET DUCTWORK UP AND DOWN AS REQUIRED TO ACHIEVE INSTALLATION OF DUCT SYSTEM.
- FURNISH AND INSTALL MANUAL BALANCING DAMPERS ON ALL SUPPLY AIR, RETURN AIR, AND EXHAUST BRANCH DUCTWORK TO ALLOW BALANCING OF EACH INDIVIDUAL AIR OUTLET. THIS INCLUDES GRILLES MOUNTED DIRECTLY TO DUCTS, WHICH SHOULD BE INSTALLED WITH ENOUGH DUCTWORK AT GRILLE TO INSTALL DAMPER.
- FOR BRANCH DUCTS ROUTED TO DIFFUSERS OR GRILLES THAT DO NOT SHOW SIZES ON DRAWINGS, DUCT SIZE SHALL MATCH DIFFUSER OR GRILLE NECK SIZE NOTED ON DIFFUSER AND GRILLE SCHEDULE.
- WHERE DUCTWORK IS EXPOSED AND ROUTED IN LOCATIONS WHERE THERE IS NO CEILING, AND THIS SPACE IS CONDITIONED BY THE HVAC SYSTEM, THEN EXTERNAL INSULATION IS NOT REQUIRED. WHERE PORTIONS OF THESE DUCTS ARE ROUTED ABOVE A CEILING, EXTERNAL INSULATION IS REQUIRED. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND GENERAL TRADES.
- PROVIDE NEW FILTERS IN RTUS AND UVS AFTER CONSTRUCTION IS COMPLETE AND BUILDING HAS BEEN CLEANED OF ALL DIRT AND DUST.
- ALL DIFFUSER AND GRILLE LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- MECHANICAL TRADES SHALL PROVIDE AND LOCATE CEILING AND ACCESS DOORS AS REQUIRED FOR ACCESS TO EQUIPMENT, ACCESS TO BE INSTALLED BY GENERAL TRADES.

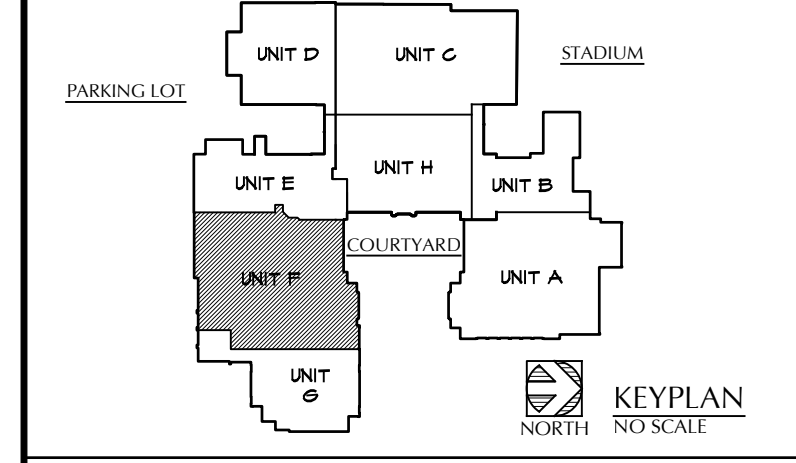
KEYED NOTES:

- NEW SUPPLY AIR AND RETURN AIR DUCTWORK ROUTED ABOVE CEILING. FIELD VERIFY EXACT LOCATION OF DUCTWORK IN CEILING SPACE (TYP).
- ROUTE SUPPLY AIR DUCT FROM RTU ON ROOF DOWN INTO CEILING SPACE. TRANSITION TO 20"x12" IN ROOF CURB.
- ROUTE RETURN AIR DUCT FROM RTU ON ROOF DOWN INTO CEILING SPACE. TRANSITION TO 20"x12" IN ROOF CURB.
- NEW ROOFTOP UNIT ON ROOF. REFER TO SHEET M3.03.
- NEW EXHAUST FAN, EF-1, ON ROOF. ROUTE 12" X 10" DUCT DOWN FROM EXHAUST FAN AND TRANSITION AS REQUIRED TO CONNECT TO EXHAUST FAN.
- NEW EXHAUST AIR DUCTWORK ROUTED ABOVE CEILING. FIELD VERIFY EXACT LOCATION OF DUCTWORK ABOVE CEILING.
- EXISTING UNIT VENTILATOR TO REMAIN.

RTU-1 AIR BALANCE TABLE	
SUPPLY (CFM)	1800
RETURN (CFM)	1600
OUTSIDE AIR (CFM)	200

NORTH
FIRST FLOOR PLAN - UNIT "F" - HVAC REVISIONS
 1/8"=1'-0"

NO.	REVISION	DATE



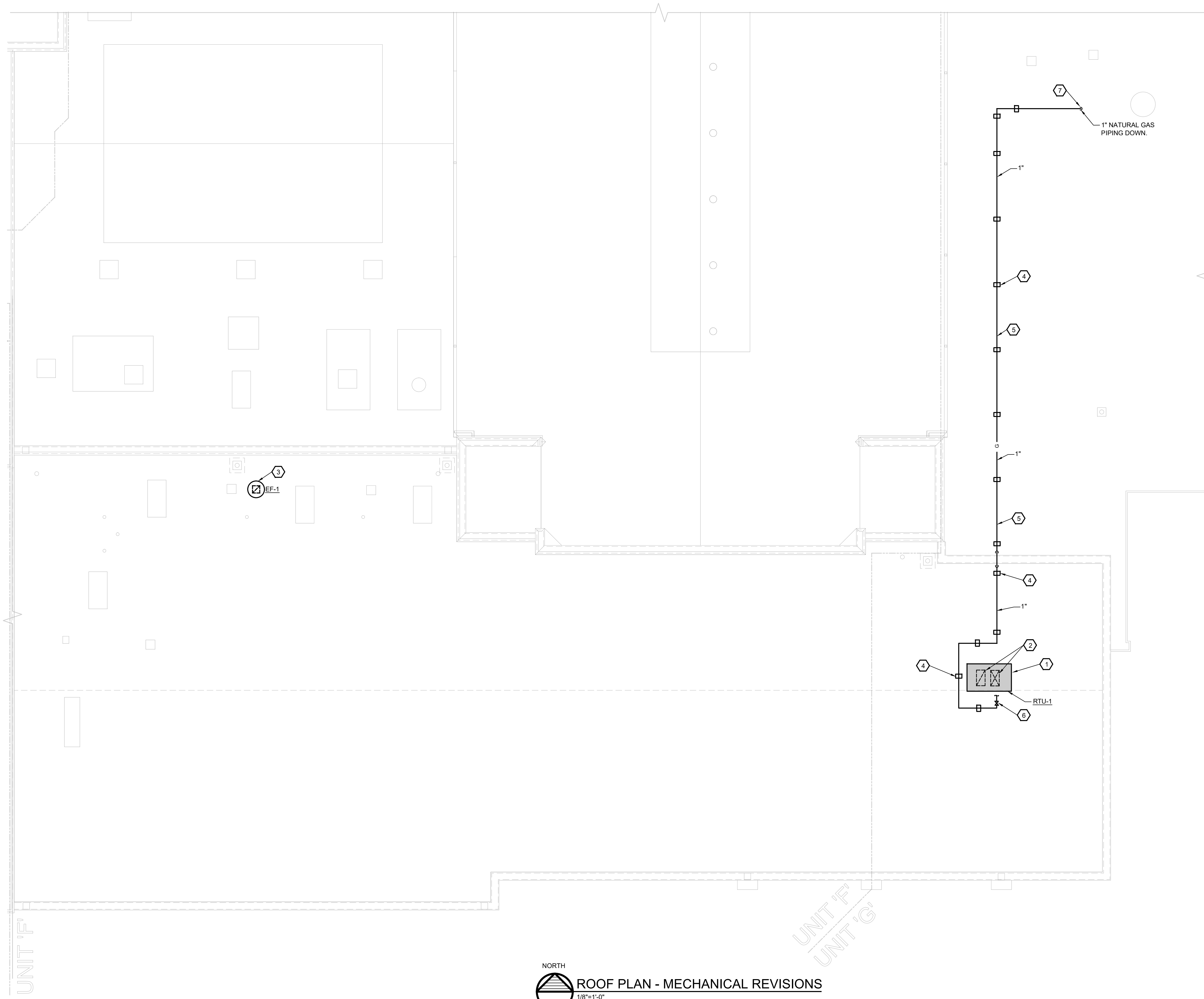
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PROJECT TITLE
 RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.
 BAY CITY, MICHIGAN

SHEET TITLE
**FIRST FLOOR PLAN
 UNIT "F" - HVAC**

PROJECT NUMBER 2018040.16	SHEET NUMBER M3.01
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY GRS	



GENERAL NOTES:

- INSTALL ALL MECHANICAL EQUIPMENT ON ROOF A MINIMUM OF 12 FEET AWAY FROM ROOF EDGE.
- PRIME AND PAINT ALL NATURAL GAS PIPING LOCATED OUTDOORS WITH RUST INHIBITOR PAINT THAT INCLUDES ZINC.
- DO NOT INSTALL RTU WITHIN 10 FEET OF ANY PLUMBING VENTS, EXHAUST, ETC.
- FURNISH AND INSTALL NATURAL GAS PRESSURE REGULATORS ON EACH PIECE OF NEW EQUIPMENT. VERIFY PRESSURE OF INLET PIPING AND EQUIPMENT PRESSURE REQUIREMENTS PRIOR TO ORDERING REGULATORS.
- COORDINATE ROUTES/LOCATIONS OF ALL DUCTWORK, DIFFUSERS, ETC. WITH ALL CONDITIONS, OTHER TRADES ETC. THE MECHANICAL TRADE SHALL BE RESPONSIBLE FOR ROUTING DUCT THROUGH JOIST SPACE AS REQUIRED TO AVOID CONFLICTS WITH OTHER SYSTEMS, DUCTWORK, ETC. FURNISH AND INSTALL ALL FITTINGS, DUCTWORK, ETC. TO OFFSET DUCTWORK UP AND DOWN AS REQUIRED TO ACHIEVE INSTALLATION OF DUCT SYSTEM.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING AND INSTALLATION OF THE GAS PIPING FOR AHU AND ENERGY RECOVERY HVAC UNITS.
- NO PIPING SHALL BE LOCATED DIRECTLY ABOVE ELECTRICAL PANELS OR DEVICES. NO PIPING SHALL BE ALLOWED WITHIN 3'-0" OF PANELS, UNLESS PIPING IS HIGHER THAN 7'-0" ABOVE FINISHED FLOOR. VERIFY PIPE ROUTING WITH ELECTRICAL TRADES.
- PROVIDE NEW FILTERS IN RTUS AND UVS AFTER CONSTRUCTION IS COMPLETE AND BUILDING HAS BEEN CLEANED OF ALL DIRT AND DUST.

KEYED NOTES:

- FURNISH AND INSTALL NEW RTU ON ROOF CURB. REFER TO MANUFACTURER'S RECOMMENDATIONS AND REQUIRED CLEARANCES FOR INSTALLATION. MAINTAIN A MINIMUM OF 12'-0" FROM ROOF EDGE TO RTU.
- ROUTE NEW SUPPLY AIR AND RETURN AIR DUCTWORK DOWN THROUGH ROOF CURB INTO OFFICE CEILING SPACE.
- NEW EXHAUST FAN ON ROOF SHALL BE INSTALLED ON MANUFACTURER PROVIDED ROOF CURB. REFER TO MANUFACTURER'S RECOMMENDATIONS AND REQUIRED CLEARANCES FOR INSTALLATION. CLOSELY COORDINATE EXHAUST FAN LOCATION WITH EXISTING HOODS, FANS, ETC. ON ROOF. FIELD VERIFY EXACT EXHAUST FAN LOCATION.
- UTILIZE NON-PENETRATING ROOF PIPE SUPPORT WITH ROLLER MIRO MODEL # 3 RS4-7 WITH SUPPORT AND SPACING AND QUANTITIES AS REQUIRED PER CODE (TYP).
- ROUTE NEW NATURAL GAS PIPING ALONG ROOF FROM NEW CONNECTION IN TUNNEL TO RTU ON ROOF. FIELD VERIFY EXACT PIPE ROUTING AND CONNECTION LOCATIONS.
- CONNECT NEW NATURAL GAS PIPING TO NEW ROOFTOP UNIT. TRANSITION NATURAL GAS PIPING AT ROOFTOP UNIT AS NECESSARY FOR UNIT CONNECTION. FIELD VERIFY EXACT CONNECTION SIZE AND LOCATION.
- NEW NATURAL GAS PIPING ROUTED DOWN THROUGH ROOF. NATURAL GAS PIPING SHALL BE ROUTED DOWN TO EXISTING TUNNEL AND CONNECT TO EXISTING 1" NATURAL GAS PIPING IN TUNNEL. UTILIZE MANUFACTURED PIPE PORTAL ROOF CURB TO ROUTE THROUGH ROOF.

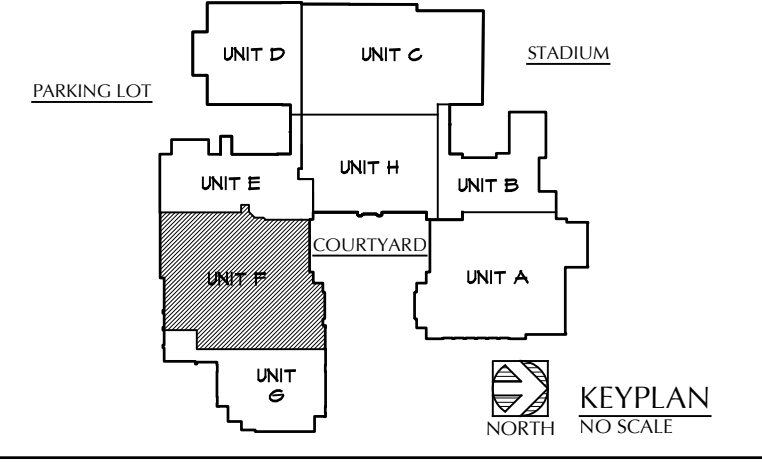
NATURAL GAS LOAD SUMMARY				
EQUIPMENT	AMOUNT	LOAD (CFH)	PRESSURE (MIN/MAX)	TOTAL LOAD (CFH)
RTU-1	1	250	4.5-14" WC	100
NEW TOTAL				100

NOTE: THE MECHANICAL TRADE SHALL BE RESPONSIBLE FOR COORDINATION OF THE EXISTING GAS SERVICE AND METER WITH THE GAS COMPANY. THE MECHANICAL CONTRACTOR SHALL VERIFY THE EXISTING NATURAL GAS LOAD. THE GAS COMPANY SHALL REVISE THE EXISTING SERVICE AND METER AS NECESSARY TO SERVE THE NEW GAS LOAD. THE MECHANICAL CONTRACTOR SHALL VERIFY THAT THERE IS PROPER GAS PRESSURE AT EACH PIECE OF NEW AND EXISTING EQUIPMENT SERVED BY THE EXISTING GAS SERVICE AND SUPPLY REGULATORS AT EACH PIECE OF EQUIPMENT IF NECESSARY.

NORTH

ROOF PLAN - MECHANICAL REVISIONS
 1/8"=1'-0"

NO.	REVISION	DATE



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PROJECT TITLE
**RENOVATION FOR BCPS:
 BAY CITY EASTERN HIGH
 SCHOOL AT HANDY M.S.**
 BAY CITY, MICHIGAN

SHEET TITLE
**ROOF PLAN
 MECHANICAL REVISIONS**

PROJECT NUMBER 2018040.16	SHEET NUMBER M3.02
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY GRS	

PACKAGE VAV ROOFTOP GAS HEAT/ELECTRIC COOLING UNIT																								
MARK	MANUFACTURER	MODEL NO	TYPE	COOLING AIRFLOW	MIN. OUTSIDE AIR FLOW	TOTAL ESP	COOLING CAPACITY						HEATING CAPACITY					TOTAL UNIT WEIGHT	ELECTRICAL DATA					
							NOMINAL COOLING CAPACITY	TOTAL COOLING CAPACITY	EER	IEER	EAT		LAT Db	OSA DESIGN TEMP	GAS INPUT	GAS OUTPUT	GAS STAGES		EAT Db	LAT Db	UNIT POWER CONNECTION			
				°F	°F	°F					°F	MBH						MBH			RATIO	°F	°F	LBS
RTU-1	TRANE	YHC067	VAV	1,800	200	1.50	5	55	13	17.2	80	67	55	95	80	64	1:1	70	106	1000	15	25	3	480

NOTES:



- THE MECHANICAL TRADE SHALL VERIFY UNIT CONFIGURATION (HORIZONTAL OR DOWNFLOW) WITH SCHEDULE LISTED ABOVE AND PROJECT DESIGN DRAWINGS.
- UNITS SHALL HAVE REFERENCE ENTHALPY BASED ON ECONOMIZERS WITH POWER RELIEF EXHAUST FAN.
- FURNISH PREFABRICATED ROOF CURB FOR EACH UNIT, WITH HEIGHT OF CURB TO GIVE MINIMUM OF 18" CLEAR FROM FINISHED ROOF TO CURB CAP. THE MECHANICAL TRADE SHALL FURNISH AND SET IN PLACE/LEVEL THE ROOF CURB. THE GENERAL TRADE SHALL PERFORM ALL ROOFING, FLASHING, ETC.
- MECHANICAL TRADES SHALL FILL ALL OPEN VOIDS IN CURB (BETWEEN DECK AND BOTTOM OF RTU) WITH SPRAY FOAM INSULATION FOR ACOUSTICAL PURPOSES.
- ALL UNITS SHALL HAVE A 4" THICK HIGH EFFICIENCY THROW AWAY FILTERS.
- OUTSIDE AIR INTAKE DAMPERS SHALL BE ULTRA LOW-LEAK TYPE WITH BLADE AND JAMB SEALS.
- MOTORS SHALL BE OVERSIZED VAV PREMIUM EFFICIENCY TYPE.
- EACH RTU TO HAVE:
 - SERVICE VALVES ON LIQUID, SUCTION, AND DISCHARGE LINES.
 - THRU-THE-BASE ELECTRICAL PROVISION.
 - NON-FUSED DISCONNECT SWITCH WITH EXTERNAL HANDLE.
 - VENTILATION OVERRIDE.
 - HINGED SERVICE ACCESS.
 - CONDENSER COIL GUARDS.
 - BACNET COMMUNICATION INTERFACE.
 - SLOPED STAINLESS STEEL DRAIN PANS.
- THE MECHANICAL TRADES SHALL BE RESPONSIBLE FOR COMPLETING ALL LOW-VOLTAGE WIRING, CONDUIT, AND ASSOCIATED POWER SUPPLY NECESSARY FOR A COMPLETE AND OPERATIONAL TEMPERATURE CONTROL SYSTEM. REFER TO THE ELECTRICAL DRAWINGS FOR AVAILABLE 120 VOLT POWER LOCATIONS. THE ELECTRICAL TRADES SHALL BE RESPONSIBLE FOR PROVIDING THE MAIN POWER FEED FOR ALL MECHANICAL EQUIPMENT. REFER TO THE ELECTRICAL DRAWINGS FOR CLARIFICATION OF ELECTRICAL TRADES FURNISHED POWER.
- FURNISH 5 YEAR COMPRESSOR WARRANTY FOR ROOFTOP UNITS.
- FURNISH ONE YEAR OF COMPLETE SERVICE AND MAINTENANCE OF ROOFTOP UNITS. INCLUDE MANUFACTURER CHECK TEST AND START-UP OF ROOFTOP UNITS AND CONTROL SYSTEM. PROVIDE FACTORY AND FIELD WIRING DIAGRAMS, AND PROVIDE TECHNICAL ASSISTANCE AS REQUIRED TO ASSURE FIRST CLASS OPERATING SYSTEMS.
- FURNISH JOHNSON CONTROL COMMUNICATION INTERFACE SYSTEM (FOR EACH UNIT) WITH BACNET (VERIFY WITH TEMPERATURE CONTROLS) TO COMMUNICATION TO BE TIED INTO THE EXISTING JCI BMS.

PLUMBING FIXTURE SCHEDULE			
TAG/ DESCRIPTION	MANUFACTURER	MODEL #	NOTES
WC-1	AMERICAN STANDARD	3351.101	WALL HUNG FLUSH VALVE WATER CLOSET: AFWALL MILLENNIUM WITH EVERCLEAN AND SIPHON JET ACTION, ELONGATED BOWL, OFF-FLOOR MOUNTING, 1 1/2" TOP INLET SPUD, WHITE VITREOUS CHINA, 1.6 GALLONS PER FLUSH, CONTROL FOR FLUSH VALVE SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA. FITTINGS SHALL INCLUDE ZURN Z-6000AV-WS1 FLUSH VALVE WITH VACUUM BREAKERS, CENTOCO 1500CC WHITE OPEN FRONT SEAT LESS COVER, CARRIER AND HARDWARE, BOLTS, ETC.
WC-2	AMERICAN STANDARD	3043.001	FLOOR MOUNTED FLUSH VALVE WATER CLOSET: AMERICAN STANDARD #3043.001 MADERA FLOWISEA D.A. EL 1.6, 16 1/2" HIGH WATER SAVER TOILET WITH SIPHON JET ACTION, ELONGATED BOWL, WHITE VITREOUS CHINA, 1 1/2" TOP SPUD, 1.6 GALLONS PER FLUSH, FITTINGS SHALL INCLUDE ZURN Z-6000AV-WS1 FLUSH VALVE WITH VACUUM BREAKER, CENTOCO 1500 CC WHITE OPEN FRONT SEAT, LESS COVER, BOLT CAPS, ETC. CONTROL FOR FLUSH VALVE SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREA.
WC-3	AMERICAN STANDARD	3043.001	FLOOR MOUNTED FLUSH VALVE WATER CLOSET (BARRIER FREE): AMERICAN STANDARD #3043.001 MADERA FLOWISEA D.A. EL 1.6, 16 1/2" HIGH WATER SAVER TOILET WITH SIPHON JET ACTION, ELONGATED BOWL, WHITE VITREOUS CHINA, 1 1/2" TOP SPUD, 1.6 GALLONS PER FLUSH, FITTINGS SHALL INCLUDE ZURN Z-6000AV-WS1 FLUSH VALVE WITH VACUUM BREAKER, CENTOCO 1500 CC WHITE OPEN FRONT SEAT, LESS COVER, TO GIVE 17" HIGH TOP OF SEAT ABOVE FINISHED FLOOR FOR BARRIER FREE USE, BOLT CAPS, ETC. INSTALLATION SHALL MEET A.D.A. REQUIREMENTS. CONTROL FOR FLUSH VALVE SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREA.
UR-1	AMERICAN STANDARD	6590.001	WALL HUNG, WASHBROOK URINAL WITH EVERCLEAN, WHITE VITREOUS CHINA WASH OUT WATER SAVER URINAL WITH 3/4" TOP INLET SPUD, OUTLET THREADED 2" FEMALE, 1.0 GALLON PER FLUSH, CONTROL FOR FLUSH VALVE SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA, FITTINGS SHALL INCLUDE ZURN Z-6003AV-WS1 FLUSH VALVE WITH VACUUM BREAKER, ZURN CONCEALED ARM CARRIER WITH FLOOR SUPPORT.
L-1	AMERICAN STANDARD	0356.421	WALL HUNG LAVATORY, LUCERNE, NOMINAL 20"X18" WHITE VITREOUS CHINA, FRONT OVERFLOW, FAUCET LEDGE, "D" SHAPED BOWL, SELF DRAINING DECK, ONE CENTER HOLE PUNCHING CONSTRUCTED FOR CONCEALED ARM CARRIER AND ADA COMPLIANT. INSTALL THERMOSTATIC MIXING VALVE THAT IS ASSE 1070 LISTED UNDER EACH LAVATORY AND ADJUST TO 105 DEGREE HOT WATER MAXIMUM AT FAUCET. FITTINGS SHALL INCLUDE ZURN Z-7440-XL CENTERSET FAUCET WITH RIGID SPOUT, SINGLE LEVER MANUAL FAUCET WITH RIGID SPOUT AND COLOR INDEXES, 0.5 GPM FLOW DEVICE, GRID DRAIN, P-TRAP, WHEEL HANDLE STOPS AND TAILPIECE, ALL POLISHED CHROME FINISH, UNDERSINK PROTECTIVE PIPE COVERS, ZURN CONCEALED ARM CARRIER WITH FLOOR SUPPORT, ETC.
EW-1	ELKAY	LZSTL8WSSK	HI/LO ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION AND FILTER: ELKAY LZSTL8WSSK WALL MOUNTED BARRIER-FREE BOTTLE FILLING STATION, & BI-LEVEL HIGH EFFICIENCY, FILTERED, 8 GPH STAINLESS CHILLING CAPACITY OF 8.0GPH FEATURES SHALL INCLUDE HANDS FREE, VISUAL FILTER MONITOR, FILTERED, LAMINAR FLOW, ANTIMICROBIAL, REAL DRAIN, FURNISHED WITH FLEXI-GUARD BUBBLER, ELECTRONIC BOTTLE FILLER SENSOR WITH MECHANICAL FRONT AND SIDE BUBBLER PUSHBAR ACTIVATION, CORD WITH 3 PRONG PLUG, 115 VOLT, 370 WATTS, 6 AMP. PROVIDE ZURN Z OR EQUAL WALL HANGER WITH FLOOR SUPPORT. UNIT SHALL BE MOUNTED AT HEIGHT TO MEET BARRIER FREE AND ADA REQUIREMENTS. VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
EW-1	GUARDIAN	GBF1721	BARRIER FREE EYE/FACEWASH. PROVIDE WITH G6020 THERMOSTATIC MIXING VALVE MEETING ANSI Z358.1. INSTALL TO MEET OSHA AND ADA REQUIREMENTS, PROVIDE WITH ANSI COMPLIANT SIGN.
NON-PENETRATING PIPE SUPPORT	MIRO	3-RS4-7	NON-PENETRATING ROOF PIPE SUPPORT SHALL BE FURNISHED AND INSTALLED ON ALL NATURAL GAS PIPING ROUTED ON GRADE. INSTALL PIPE SUPPORT PER STATE AND LOCAL CODE REQUIREMENTS.
UNDER LAVATORY PROTECTIVE PIPE COVERS	ZURN	Z8946	TRAP AND STOP/RISER INSULATED COVERS SHALL BE FURNISHED AND INSTALLED ON ALL EXPOSED PIPING AND VALVES BELOW LAVATORIES TO MEET ADA REQUIREMENTS. THIS SHALL INCLUDE DRAIN, CW AND HW PIPING, FITTINGS, VALVES, ETC.
THERMOSTATIC MIXING VALVE	ASSE	1070	THERMOSTATIC MIXING VALVE SHALL BE FURNISHED AND INSTALLED UNDER EACH NEW LAVATORY, HAND SINK, COUNTERTOP SINK AND SIMILAR FIXTURES. VALVE SHALL BE LISTED ASSE 1070, 1/2" SIZE WITH STRAINER AND CHECK-STOPS. PIPE TO HOT WATER SIDE OF FAUCET AND ADJUST TO PROVIDE 105F HOT WATER AT FAUCET.

EXHAUST FAN SCHEDULE														
MARK	SERVING	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (IN. W.G.)	TYPE	MOTOR	BHP	HP	FLA	VOLTS/PH/Hz	MANUFACTURER MODEL NUMBER	SONES	WEIGHT (LBS)	DIMENSIONS	NOTES
EF-1	TOILET ROOMS	675	1.25	DOWNBLAST	DIRECT DRIVE	0.35	1/2	6.6	120/1/60	GREENHECK G-100HP-VG	13.8	43	24"DIA x 36" H	SEE BELOW

NOTES:

- MOTOR TO BE EC MOTOR, DESIGNED FOR FAN APPLICATIONS (GREENHECK VARI-GREEN WITH DIAL ON MOTOR CONTROL).
- NEMA-1 DISCONNECT SWITCH SHALL BE PROVIDED AND FACTORY-MOUNTED BY FAN MANUFACTURER. WIRING IS PROVIDED FROM MOTOR TO HANDY BOX.
- PROVIDE BACKDRAFT DAMPER FOR INSTALLATION DOWNSTREAM OF FAN IN DUCTWORK.
- FAN SHALL OPERATE CONTINUOUSLY DURING OCCUPIED HOURS.

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PROJECT TITLE RENOVATION FOR BCPS: BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.		
BAY CITY, MICHIGAN		
SHEET TITLE MECHANICAL SCHEDULES		
PROJECT NUMBER	SHEET NUMBER	
2018040.16	M4.01	
PROJECT DATE		
FEBRUARY 1, 2024		
CHECKED BY	GRS	

CABINET HEATER SCHEDULE								
MARK	MANUFACTURER	MODEL	SIZE (LxWxD)	HEATING CAPACITY (MBH)	GPM	CFM	FAN MOTOR	ELECTRICAL
CH-1.2	RITTLING	RFRC-420	51" X 24" X 10"	20	2	310	1/25 HP	120/1/60
NOTES								
1. FIELD MEASURE WALL/CEILING TYPE AND DEPTH TO DETERMINE HOW MUCH OF UNIT CAN BE RECESSED.								
2. PROVIDE FULL-FINISHED COVER FORFULLY-RECESSED, PARTIALLY RECESSED OR SURFACE MOUNT AS REQUIRED. MANUFACTURER TO PROVIDE WITH: DISPOSABLE FILTER AND MANUAL MOTOR STARTER W/ DISCONNECT. DISCONNECT SHALL BE MOUNTED AND WIRED BY MANUFACTURER.								
3. ALL CABINET HEATERS TO HAVE 3-WAY CONTROL VALVES.								
4. HEATING CAPACITIES BASED ON 180° F E.W.T., 150° F L.W.T.								
5. REMOTE WALL MOUNTED ROOM TEMPERATURE SENSOR AND STRAP-ON AQUASTAT TO PREVENT FAN FROM OPERATING WHEN HEATING SUPPLY PIPE IS COLD SHALL BE FURNISHED AND INSTALLED BY THE TEMPERATURE CONTROL CONTRACTOR.								
7. TEMPERATURE CONTROL CONTRACTOR SHALL FURNISH A UNITARY CONTROLLER AND PROVIDE ALL DDC CONTROLS FOR CABINET HEATER.								

VAV SCHEDULE (RTU-1)					
MARK	AIR FLOW		HEATING COIL MBH	GPM	INLET SIZE
	MAX CFM	MIN CFM			
VB-1-01	400	200	13.0	0.9	8" DIA
VB-1-02	650	300	21.2	1.4	8" DIA
VB-1-03	750	400	24.4	1.6	10" DIA
Totals	1800	900	58.6	3.9	
NOTES: (APPLY TO ALL VAV BOXES)					
1. VB (VARIABLE AIR VOLUME BOXES) TO BE INSULATED DOUBLE WALL CONSTRUCTION.					
2. VB BOXES SHALL HAVE A FACTORY MOUNTED DISCONNECT SWITCH, FUSE, AND DAMPER ACTUATOR AND FLOW RING, ALL WIRED TO A TERMINAL STRIP. TEMPERATURE CONTROL CONTRACTOR SHALL BE RESPONSIBLE FOR 120 VAC WIRING FROM CIRCUIT BREAKERS IN ELECTRICAL DISTRIBUTION PANEL TO THE TRANSFORMER AND FOR THE 24 VAC WIRING FROM THE TRANSFORMER TO VB BOXES. TRANSFORMER TO BE FURNISHED AND INSTALLED BY THE TEMPERATURE CONTROL CONTRACTOR. NOT MORE THAN SIX (6) VB BOXES TO BE ON ONE 20 AMP CIRCUIT. IDENTIFY IN A PERMANENT MANNER EACH VB BOX AND THE PANEL AND CIRCUIT SERVING THE BOX.					
3. SPACE TEMPERATURE SENSORS AND OTHER DIRECT DIGITAL CONTROLS SHALL BE FURNISHED AND INSTALLED BY THE TEMPERATURE CONTROL CONTRACTOR.					
4. HEATING CAPACITY BASED 180° F E.W.T., 150° F L.W.T. AND 0.4" MAX APD.					
5. ALL VB BOXES SHALL HAVE 2-WAY HOT WATER CONTROL VALVES.					
6. SEE SPECIFICATIONS FOR FURTHER INFORMATION.					

PERIMETER RADIATION SCHEDULE							
MARK	MANUFACTURER	MODEL	SIZE (HxD)	FIN SIZE	HEATING CAPACITY (BTU/HF)	GPM	TUBE DIAMETER
FTR-1	RITTLING	FS	5 3/8" X 14"	4-1/4" x 4-1/4"	1033.9	1.2	3/4"
NOTES:							
1. SAME SIDE OR OPPOSITE-SIDE SUPPLY/RETURN PIPE CONNECTIONS.							
2. 1'-0" TO 8'-0" LENGTHS, IN 6" INCREMENTS.							
3. MANUFACTURER'S REP TO FIELD MEASURE AND VERIFY END-PIECES, PIPE ENCLOSURES, AND PIPE CONNECTION TYPE/LOCATION.							
4. POWDER COATED FINISH WITH COLOR TO BE SELECTED BY ARCHITECT.							

GRILLE, REGISTER, AND DIFFUSER SCHEDULE					
REF	TYPE SERVICE AND TYPE	MODEL NUMBERS	DEFLECTION	NECK SIZE	REMARKS
A	SUPPLY AIR DIFFUSER	PRICE SCD OR EQUAL TITUS	4 WAY	0-125 CFM: 6" x 6" (6" DIA) / 126-250 CFM: 9" x 9" (8" DIA) / 251-350 CFM: 12" x 12" (10" DIA) / 351-450 CFM: 12" x 12" (12" DIA) / 451-600 CFM: 15" x 15" (14" DIA) / 601-900 CFM: 18" x 18" (16" DIA)	ALL STEEL CONSTRUCTION, ADJUSTABLE HORIZONTAL TO VERTICAL AIRFLOW PATTERN, 3 CONE, 24X24, BAKED ON ENAMEL FINISH WITH COLOR SELECTED BY ARCHITECT. FRAME AS REQUIRED FOR CEILING TYPE WITH DIFFUSER PANEL SHALL MATCH GRID SIZE WHERE INSTALLED IN LAY IN CEILING. MAXIMUM NECK VELOCITY SHALL BE 700 FPM AND MAXIMUM NC LEVEL SHALL BE 25.
B	LINEAR SUPPLY AIR CEILING DIFFUSER	PRICE #SDS WITH PRICE #SDAI INSULATED PLENUM OR EQUAL TITUS	LINEAR SLOT	100 CFM: 4' LENGTH, (1) 1" SLOTS, 6" DIA BOOT NECK 200 CFM: 4' LENGTH, (2) 1" SLOTS, 8" DIA BOOT NECK	NC SHALL BE LESS THAN 30, ADJUSTABLE FLOW PATTERN, ALL ALUMINUM CONSTRUCTION, BORDER STYLE AS REQUIRED BY CEILING, BAKE ON ENAMEL FINISH WITH COLOR SELECTED BY ARCHITECT.
C	DUCTED RETURN AIR OR EXHAUST AIR GRILLE	PRICE PDDR OR EQUAL TITUS	PERFORATED	0-125 CFM: 6" x 6" (6" DIA) / 126-250 CFM: 9" x 9" (8" DIA) / 251-350 CFM: 12" x 12" (10" DIA) / 351-450 CFM: 12" x 12" (12" DIA) / 451-600 CFM: 15" x 15" (14" DIA) / 601-900 CFM: 18" x 18" (16" DIA) / 901-1200 CFM: 21" x 21"	ALL STEEL CONSTRUCTION, BAKED ON ENAMEL FINISH WITH COLOR SELECTED BY ARCHITECT. FRAME AS REQUIRED FOR CEILING TYPE WITH DIFFUSER PANEL SHALL MATCH GRID SIZE WHERE INSTALLED IN LAY IN CEILING. MAXIMUM NECK VELOCITY SHALL BE 700 FPM AND MAXIMUM NC LEVEL SHALL BE 25
D	RETURN AIR GRILLE	PRICE 530L OR EQUAL TITUS	SINGLE DEFLECTION	SEE DRAWINGS FOR SIZES	ALL STEEL CONSTRUCTION, SINGLE DEFLECTION BLADES, 35 DEGREE HORIZONTAL FRONT BLADES, BAKED ON ENAMEL FINISH WITH COLOR SELECTED BY ARCHITECT.

GENERAL MECHANICAL NOTES

- THE MECHANICAL TRADES SHALL FAMILIARIZE THEMSELVES WITH ALL EXISTING AND NEW CONDITIONS, THESE DRAWINGS, ADDENDA & RELATED SPECIFICATIONS. THEY SHALL COMPLETELY SATISFY THEMSELVES AS TO THE CONDITIONS TO WHICH THE WORK IS TO BE PERFORMED BEFORE SUBMITTING THEIR BID. NO ALLOWANCES OR CONSIDERATIONS WILL BE GIVEN AT A LATER DATE FOR ALLEGED MISUNDERSTANDINGS AS TO THE REQUIREMENTS OF THE WORK, MATERIALS TO BE FURNISHED, OR CONDITIONS REQUIRED BY THE NATURE OF THIS PROJECT SITE DUE TO NEGLECT ON THE BIDDERS PART TO MAKE SUCH AN EXAMINATION AND COORDINATION.
- DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW APPROXIMATE LOCATION AND GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT. DRAWINGS SHALL NOT BE SCALED FOR LOCATION OF SYSTEMS, EQUIPMENT, ETC. ALL LOCATIONS OF SYSTEMS AND EQUIPMENT SHALL BE VERIFIED IN FIELD AND COORDINATED WITH ALL OTHER TRADES AND EXISTING FIELD CONDITIONS. SOME SYSTEMS (PIPING, DUCTWORK, ETC.) AND EQUIPMENT LOCATIONS MAY REQUIRE CHANGES IN LOCATION DUE TO FIELD CONDITIONS AND COORDINATION WITH OTHER TRADES. THESE CHANGES SHALL BE MADE WITH NO ADDITIONAL COST TO THE OWNER. FAILURE TO VERIFY AND COORDINATE WILL BE NO REASON FOR ADDITIONAL COMPENSATION.
- THE INSTALLATION OF ALL SYSTEMS, EQUIPMENT, ETC., IS SUBJECT TO CLARIFICATION WITH SUBMITTED SHOP DRAWINGS AND FIELD COORDINATION REQUIREMENTS. EQUIPMENT OUTLINES SHOWN ON DRAWINGS OR DIMENSIONED ON DRAWINGS ARE LIMITING DIMENSIONS. ANY EQUIPMENT THAT REDUCES THE INDICATED CLEARANCES OR EXCEEDS SPECIFIED OR SCHEDULED EQUIPMENT DIMENSIONS SHALL NOT BE USED.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL EQUIPMENT WITH PIPING, DUCTWORK, ETC., AT THE TIME OF ROUGH-IN. ALL EQUIPMENT TO BE SERVICEABLE. ABOVE CEILING EQUIPMENT SHALL BE WITHIN 18" OF CEILING WITHOUT ANY OBSTRUCTIONS AND SHALL HAVE ALL SERVICE AND ACCESS SPACES KEPT CLEAR. PERFORM ABOVE CEILING COORDINATION WITH ALL TRADES.
- THESE DRAWINGS AND THE ASSOCIATED SPECIFICATIONS ARE INTENDED TO PROVIDE COMPLETELY FURNISHED, INSTALLED AND OPERATIONAL MECHANICAL SYSTEM (HEATING, VENTILATING, AIR CONDITIONING, PLUMBING AND PIPING, ETC.). IF THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS HAVE INFORMATION OMITTED THAT WOULD NOT ALLOW A COMPLETELY OPERATIONAL SYSTEM AS IS THE INTENT OF THE ENGINEER, THE BIDDER SHALL NOTIFY THE ENGINEER A MINIMUM ONE WEEK PRIOR TO THE BID DATE TO ALLOW FOR ADDENDA. ONCE BIDS HAVE BEEN RECEIVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIAL, LABOR, ETC., TO FURNISH AND INSTALL A COMPLETELY OPERATIONAL MECHANICAL SYSTEM AS IS THE INTENT OF THESE DRAWINGS AND ASSOCIATED SPECIFICATION. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. IF ANY DISCREPANCIES ARE ON DRAWINGS, AS COMPARED TO MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND INSTALL EQUIPMENT AS REQUIRED AT NO ADDITIONAL COST TO THE PROJECT.
- THE MECHANICAL TRADES SHALL TAKE OUT ALL PERMITS AND ARRANGE FOR NECESSARY INSPECTIONS AND SHALL PAY ALL FEES AND COSTS.
- THE MECHANICAL TRADES SHALL VERIFY AMOUNT OF EXISTING PIPING, VALVES, DUCTWORK, ETC. TO BE REMOVED OR RELOCATED TO ALLOW FOR INSTALLATION OF NEW PIPING, DUCTWORK, VALVES, EQUIPMENT, WALLS, ETC. ALL ABANDONED PIPING, VALVES, ETC., SHALL BE REMOVED.
- THE MECHANICAL TRADES SHALL COORDINATE ALL WORK WITH OTHER TRADES AND SHALL COORDINATE ANY SYSTEMS SHUT-DOWN WITH THE ARCHITECT/ENGINEER AND OWNER.
- ALL EXISTING EQUIPMENT, PIPING, DUCTWORK, ETC. THAT IS TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL REMOVE AND LOCATE THIS MATERIAL THAT REMAINS THE PROPERTY OF THE OWNER TO A LOCATION DETERMINED BY THE OWNER SOMEWHERE ON SITE. IF THE OWNER DOES NOT WANT TO MAINTAIN POSSESSION OF THE REMOVED MATERIAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING MATERIAL FROM THE SITE AND DISPOSING OF THIS MATERIAL AS NECESSARY TO MEET ALL CODES AND REQUIREMENTS AND SHALL PAY ALL COSTS AS REQUIRED FOR ANY DISPOSAL FEES, INSPECTIONS, PERMITS, ETC.
- ATTACHMENTS OF MECHANICAL OR ELECTRICAL EQUIPMENT TO STRUCTURAL MEMBERS ARE THE RESPONSIBILITY OF THE INSTALLING TRADE. STRUCTURAL MEMBERS SHALL NOT BE FIELD CUT, WELDED OR OTHERWISE MODIFIED WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER. ATTACHMENT TO STEEL JOISTS SHALL BE MADE AT PANEL POINTS WHENEVER POSSIBLE. STEEL JOISTS SHALL BE REINFORCED FOR NON-PANEL POINT CONCENTRATED LOADS IN ACCORDANCE WITH THE STRUCTURAL DETAILS. THIS WORK SHALL BE PERFORMED BY CERTIFIED WELDERS AND IS THE RESPONSIBILITY OF THE TRADE INSTALLING THE SUBJECT LOAD. STRUCTURAL MEMBERS SHALL NOT BE OVERLOADED AS A RESULT OF ATTACHMENTS. ATTACHMENT/EQUIPMENT LOADING FOR ALL TRADES RESULTING IN TOTAL LOAD GREATER THAN AN EQUIVALENT UNIFORM 5 PSF FOR ANY MEMBER SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW.
- THE MECHANICAL TRADES SHALL FURNISH AND LOCATE CEILING AND/OR WALL ACCESS DOORS AS REQUIRED TO GIVE ACCESS TO VALVES, EQUIPMENT, ETC. COORDINATE WALL OR CEILING FIRE RATINGS AND FURNISH ACCESS DOOR WITH RATING AS NECESSARY. THE GENERAL TRADES SHALL INSTALL ACCESS DOORS.
- FURNISH PREFABRICATED ROOF CURB FOR EACH EXHAUST FAN, WITH HEIGHT OF CURB TO GIVE MINIMUM 12" CLEAR FROM FINISHED ROOF TO EXHAUST FAN CURB CAP. THE MECHANICAL TRADE SHALL FURNISH THE ROOF CURB TO THE GENERAL TRADE. THE GENERAL TRADE SHALL LEVEL CURB, PERFORM ALL ROOFING AND FLASHING ETC.
- SEE SPECIFICATION FOR FURTHER INFORMATION.

SPECIFIED AND SCHEDULED EQUIPMENT NOTE

EQUIPMENT MANUFACTURERS AND MATERIALS SPECIFIED OR SCHEDULED ON THESE PROJECT DRAWINGS AND SPECIFICATIONS SHALL BE INCLUDED UNDER THE BASE BID PRICE. SUBSTITUTE OR ALTERNATE EQUIPMENT SHALL BE PRICED AS AN ADD OR DEDUCT PRICE TO THE CONTRACTOR'S BASE BID PRICE. IF ONE OR MORE SUBSTITUTIONS ARE ACCEPTED WITH THE PROPOSAL AT THE CORRESPONDING ALTERNATE PRICE, IT SHALL BE UNDERSTOOD THAT APPROVAL OF SAID EQUIPMENT SHALL BE SUBJECT TO STRICT ADHERENCE TO THE PLANS AND SPECIFICATIONS. SHOULD ANY OF THE SUBSTITUTE EQUIPMENT FAIL TO MEET THE SPECIFICATIONS AFTER THE PROPOSAL HAS BEEN ACCEPTED, REGARDLESS IF EQUIPMENT HAS BEEN SHIPPED TO THE SITE AND INSTALLED, THE CONTRACTOR SHALL FURNISH AT NO EXTRA COST TO THE OWNER, THE SPECIFIED EQUIPMENT MEETING THE REQUIREMENTS AS STATED IN THESE SPECIFICATIONS AND COVER ALL COSTS NECESSARY FOR REMOVAL AND REINSTALLATION OF EQUIPMENT.

MODULAR HOT WATER RADIANT CEILING PANEL SCHEDULE



RP-1: RADIANT CEILING HOT WATER HEATING PANELS SHALL BE AIRTEX MODULAR METAL RADIANT PANEL, 2' X 4' SIZE FOR LAY-IN T-BAR TYPE CEILING, 0.40 ALUMINUM FACE PLATE WITH 0.500" I.D. COPPER TUBING METALLURGICALLY BONDED TO THE BACK OF THE PLATE. ONE INCH, 3/4" POUND DENSITY INSULATION SHALL BE PROVIDED OVER PANEL. PANELS SHALL BE FURNISHED FROM THE MANUFACTURER WITH MINIMUM (2) COATS OF BAKED-ON WHITE ENAMEL FINISH. FINISH DESIGN OF PANEL SHALL BE DETERMINED BY THE ARCHITECT.

DUCT TAKE-OFF FITTINGS SCHEDULE

LOW PRESSURE TAKE-OFF FITTINGS (TAKE-OFFS FROM MAIN DUCT) SHALL BE SIMILAR TO FLEXMASTER USA, INC. MODEL #CB-D CONICAL BELLMOUTH FITTING WITH DAMPER AND POSITIVE LOCKING WING NUT AND ROLLED BEAD, INSTALLED AS RECOMMENDED BY MANUFACTURER. ALL EDGES OF THE TAKE-OFF OPENING IN THE DUCT SHALL BE SEALED WITH FIRE RETARDANT DUCT SEALER.

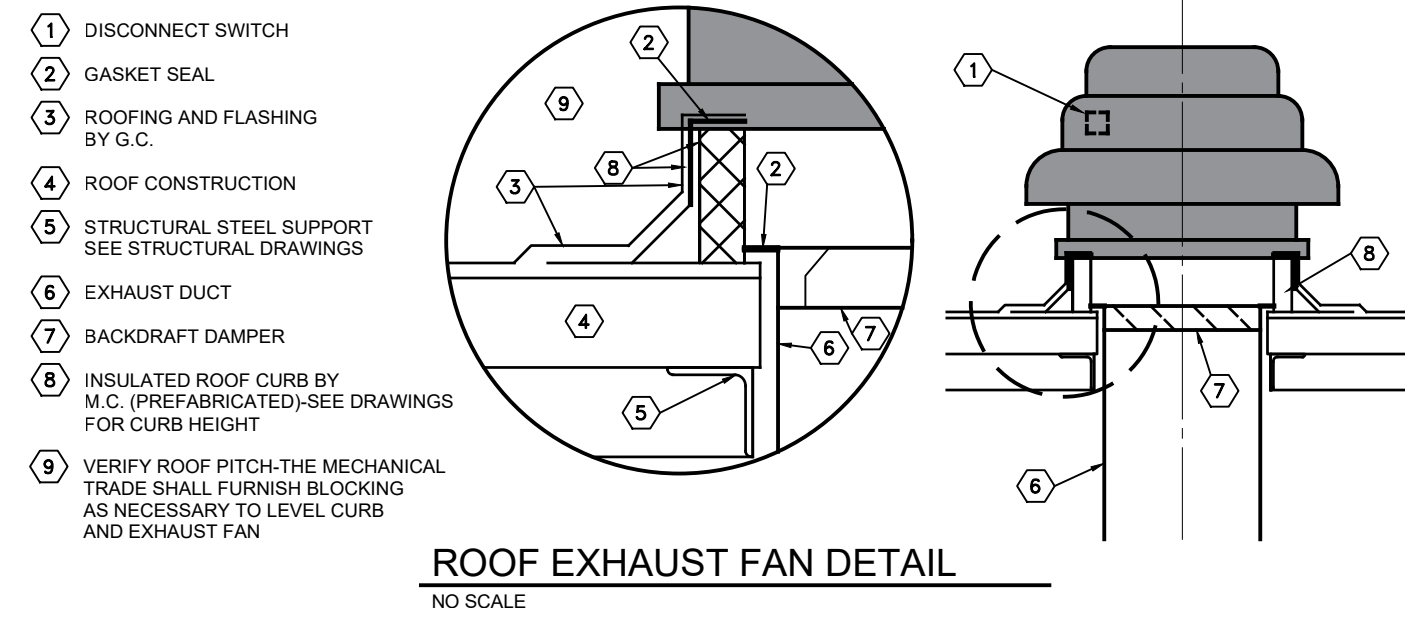
FLEXIBLE DUCT SCHEDULE

ALL FLEXIBLE DUCT USED TO CONNECT DIFFUSERS, ETC. SHALL BE SIMILAR TO FLEXMASTER USA, INC. TYPE 3 CONSISTING OF A FACTORY FABRICATED ASSEMBLY OF A TRI LAMINATE OF ALUMINUM FOIL, FIBERGLASS AND POLYESTER. IT SHALL BE MECHANICALLY LOCKED WITHOUT ADHESIVE INTO A FORMED ALUMINUM HELIX ON THE DUCTS OUTSIDE SURFACE. THE DUCT MATERIAL SHALL BE FACTORY WRAPPED IN A THICK BLANKET OF FIBERGLASS INSULATION WITH A "C" FACTOR OF 23 OR LESS. THE INSULATION SHALL BE ENCASED IN A FIRE RETARDANT POLYETHYLENE VAPOR BARRIER WITH A PERM RATING OF NOT OVER 0.1 GRAINS PER SQUARE FOOT PER HOUR PER INCH OF MERCURY. THE FLEXIBLE DUCT SHALL BE UL 181 CLASS I AIR DUCT AND COMPLY WITH NFPA 90A AND 90B AND HAVE A FLAME SPREAD OF NOT OVER 25 AND A SMOKE DEVELOPED OF NOT OVER 50. THE FLEXIBLE DUCT SHALL HAVE A MINIMUM PRESSURE RATING OF 12" W.C. THROUGH A TEMPERATURE RANGE OF -20 DEGREE F TO 250 DEGREE F. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 5'-0" TO EACH DIFFUSER OR GRILLE. FLEXIBLE DUCT SHALL HAVE A MINIMUM OF BENDS USING LONG RADIUS BENDS ONLY, INSTALLED AS RECOMMENDED BY MANUFACTURER.

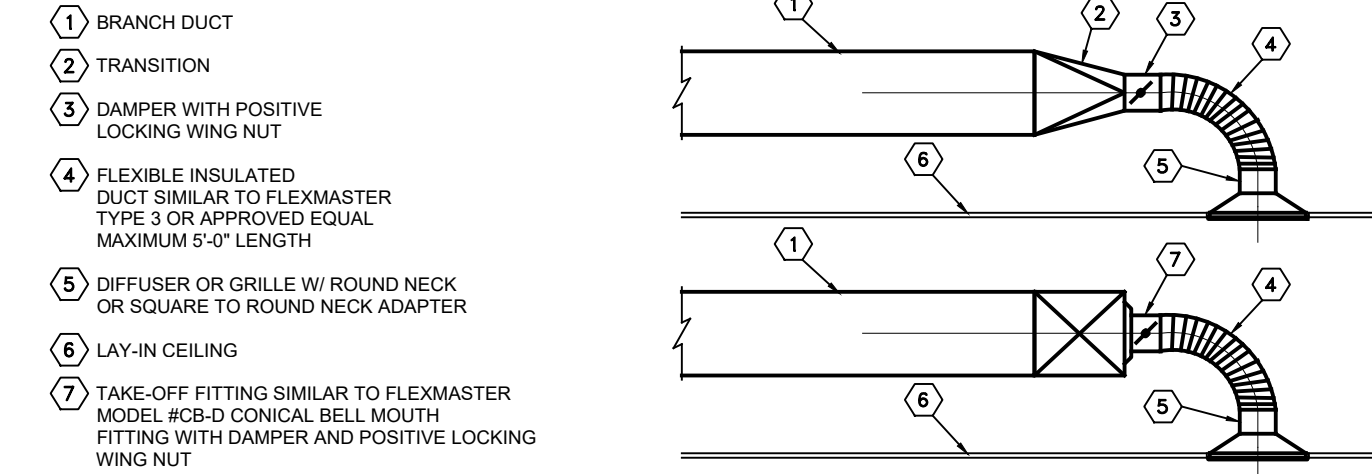
NO.			REVISION			DATE		
  <p>100 S Jefferson Ave, Suite 601 Saginaw, Michigan 48607 989 752 8107</p> <p>MACMILLAN ASSOCIATES CONSULTING ENGINEERS 114 EAST MIDLAND STREET • BAY CITY, MICHIGAN 48606 (989) 894-4300 F (989) 894-9930 WWW.MACMILLANASSOCIATES.COM</p>								
PROJECT TITLE								
RENOVATION FOR BCPS: BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.								
BAY CITY, MICHIGAN								
SHEET TITLE								
MECHANICAL SCHEDULES								
PROJECT NUMBER			SHEET NUMBER					
2018040.16								
PROJECT DATE								
FEBRUARY 1, 2024						M4.02		
CHECKED BY								
GRS								

MECHANICAL SYMBOL LIST

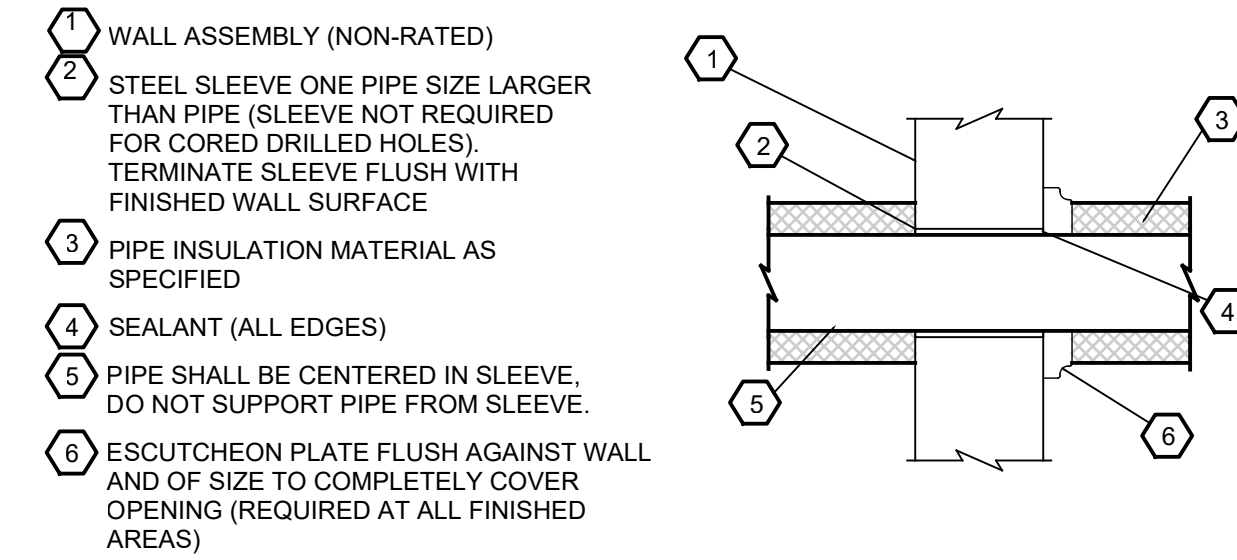
— SAN —	SANITARY PIPING BELOW FLOOR OR GRADE	— EX —	EX. VERTICAL FIRE DAMPER
— SAN —	SANITARY PIPING ABOVE FLOOR	— EX —	EX. HORIZONTAL FIRE DAMPER
— ST —	STORM PIPING BELOW FLOOR OR GRADE	— V —	VERTICAL FIRE DAMPER
— ST —	STORM PIPING ABOVE FLOOR	— H —	HORIZONTAL FIRE DAMPER
— SED —	SECONDARY EMERGENCY DRAINAGE PIPING	— V —	VERTICAL SMOKE DAMPER
— TP —	TRAP PRIMER PIPING BELOW FLOOR	— H —	HORIZONTAL SMOKE DAMPER
— SAN —	CO ABOVE FLOOR	— V —	VERTICAL COMBINATION FIRE/SMOKE DAMPER
— SAN —	CO UP TO GRADE	— H —	HORIZONTAL COMBINATION FIRE/SMOKE DAMPER
— SAN —	CO UP TO FLOOR	— [A-250] —	SUPPLY AIR DIFFUSER - TYPE "A", 250 CFM
— HHWR —	HEATING HOT WATER SUPPLY PIPING	— [B-250] —	RETURN OR EXHAUST AIR GRILLE - TYPE "B", 250 CFM
— HHWR —	HEATING HOT WATER RETURN PIPING	— S —	SLOT DIFFUSER
— RF —	REFRIGERANT LINE	— M —	MANUAL DAMPER
— CD —	MISC. EQUIP. COND DRAIN PIPING	— T —	MOTORIZED DAMPER
— G —	NATURAL GAS PIPING	— DSD —	DUCT SMOKE DETECTOR
— V —	VENT PIPING	— P —	DUCT PRESSURE SENSOR
— V —	DOMESTIC COLD WATER PIPING	— ABV —	ABOVE
— V —	DOMESTIC HOT WATER PIPING	— ACCU —	AIR COOLED CONDENSING UNIT
— V —	DOMESTIC HOT WATER RETURN PIPING	— ACU —	AIR CONDITIONING UNIT
— FP —	FIRE PROTECTION PIPING	— AFF —	ABOVE FINISHED FLOOR
— T —	TRIPLE DUTY VALVE	— BF —	BARRIER FREE
— R —	REDUCER	— BFG —	BELOW FINISHED GRADE CUBIC FEET PER MINUTE
— U —	UNION	— CFM —	CUBIC FEET PER MINUTE
— C —	CHECK VALVE	— CH —	CABINET HEATER
— C —	TWO WAY CONTROL VALVE (PNEUMATIC)	— CUH —	CABINET UNIT HEATER
— C —	THREE WAY CONTROL VALVE (PNEUMATIC)	— CO —	CLEAN OUT
— C —	TWO WAY CONTROL VALVE (ELECTRIC)	— COND —	CONDENSATE
— C —	THREE WAY CONTROL VALVE (ELECTRIC)	— CONV —	CONVECTOR
— C —	ISOLATION GATE VALVE	— CP —	CIRCULATING PUMP
— G —	GLOBE VALVE N.C.	— CW —	COLD WATER
— G —	GLOBE VALVE N.O.	— EA —	EXHAUST AIR
— K —	KITCHEN MASTER GAS VALVE	— EAR —	EXHAUST AIR REGISTER
— R —	GAS REGULATOR	— EF —	EXHAUST FAN
— F —	FLOW ARROW	— EL —	ELEVATION
— G —	GRISWOLD AUTOMATIC FLOW LIMITING VALVE	— EVB —	ELECTRIC VARIABLE AIR VOLUME BOX
— P —	PRESSURE REGULATING OR REDUCING VALVE	— EWC —	ELECTRIC WATER COOLER
— P —	REDUCED PRESURE BACKFLOW PREVENTER	— EX —	EXISTING
— E —	EXPANSION JOINT	— FCV —	FLOW CONTROL VALVE
— O —	OS & Y GATE VALVE	— FD —	FLOOR DRAIN
— S —	STRAINER	— FS —	FLOOR SINK
— B —	BUTTERFLY VALVE	— FTR —	FIN TUBE RADIATION
— B —	BALL VALVE	— FVB —	FAN POWERED VARIABLE AIR VOLUME BOX
— F —	FLEXIBLE CONNECTION	— GPM —	GALLONS PER MINUTE
— C —	GAS COCK	— HB —	INTERIOR HOSE BIB
— I —	INTERIOR HOSE BIB	— HW —	HOT WATER
— E —	EXTERIOR WALL HYDRANT	— HWR —	HOT WATER RETURN
— V —	VALVE IN RISER	— HWRP —	HOT WATER RADIANT PANEL
— U —	ELBOW RISING UP	— IE —	INVERT ELEVATION
— D —	ELBOW DROPPING DOWN	— J —	JANITORS SINK
— T —	TEE WITH PIPE UP	— L —	LAVATORY
— T —	TEE WITH PIPE DOWN	— L —	MANUAL BALANCING DAMPER
— P —	PRESSURE REGULATING VALVE	— MUA —	MAKE UP AIR UNIT
— T —	TEMPERATURE & PRESSURE RELIEF VALVE	— MUA —	NORMALLY CLOSED
— I —	INLINE PUMP	— NC —	NORMALLY OPENED
— P —	PRESSURE SENSOR OR SWITCH	— OA —	OUTSIDE AIR
— F —	FLOW SWITCH	— PRV —	PRESSURE REGULATING OR REDUCING VALVE
— T —	THERMOMETER	— PSI —	POUNDS PER SQUARE INCH
— P —	PRESSURE GAUGE W/COCK	— PSIG —	POUNDS PER SQUARE INCH GAUGE
— V —	MANUAL AIR VENT	— RA —	RETURN AIR
— A —	AUTOMATIC AIR VENT	— RAH —	RELIEF AIR HOOD
— X —	PIPE ANCHOR	— RD —	ROOF DRAIN
— G —	PIPE GUIDE	— RF —	RETURN AIR FAN
— S —	SERVICE SINK	— RTU —	ROOF TOP UNIT
— F —	FLUSH TANK WATER CLOSET	— SA —	SUPPLY AIR
— F —	FLUSH VALVE FLOOR MOUNTED	— SED —	SECONDARY EMERGENCY DRAINAGE
— U —	URINAL	— SERC —	SECONDARY EMERGENCY RAIN WATER CONDUCTOR
— L —	LAVATORY OR SINK	— SERD —	SECONDARY EMERGENCY ROOF DRAIN
— F —	FLOOR SINK	— SH —	SHOWER
— F —	FLOOR DRAIN	— SK —	SINK
— T —	THERMOSTAT OR WALL SENSOR	— SP —	STATIC PRESSURE
— H —	HUMIDISTAT	— SS —	SERVICE SINK
— S —	SENSOR	— TP —	TRAP PRIMER
— E —	EXHAUST FAN WITH FAN ABOVE (FLOOR PLAN)	— UH —	UNIT HEATER
— E —	EXHAUST FAN ON ROOF (ROOF PLAN)	— UNO —	UNLESS NOTED OTHERWISE
		— UR —	URINAL
		— UV —	UNIT VENTILATOR
		— V —	VENT
		— VA —	VALVE
		— VAV —	VARIABLE AIR VOLUME BOX
		— VAVR —	VARIABLE AIR VOLUME BOX W/ RE-HEAT COIL
		— VFD —	VARIABLE FREQUENCY DRIVE
		— VS —	VENT STACK
		— VTR —	VENT THRU ROOF
		— WC —	WATER CLOSET
		— WCO —	WALL CLEAN OUT
		— WH —	WATER HEATER
		— WHYD —	EXTERIOR WALL HYDRANT
		— T —	TRAP
		— D —	DIFFERENTIAL PRESSURE SENSOR



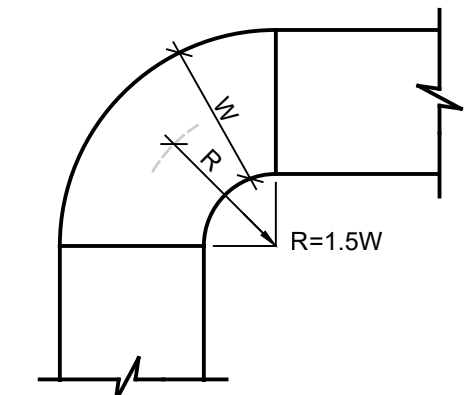
ROOF EXHAUST FAN DETAIL
NO SCALE



BRANCH DUCT CONNECTION TO DIFFUSER OR GRILLE DETAIL
NO SCALE

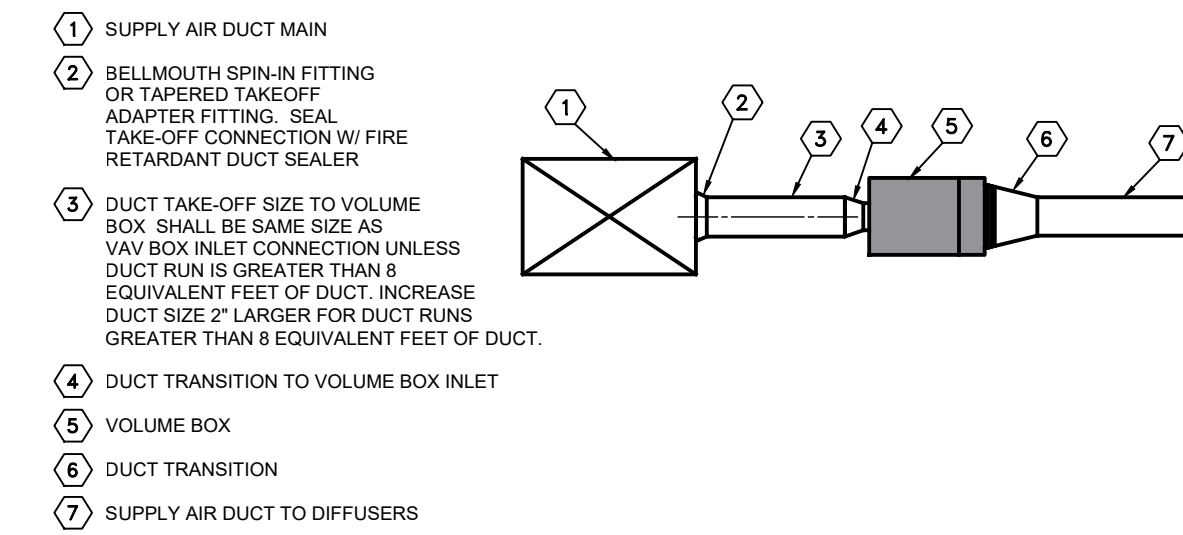


HORIZONTAL PIPE SLEEVE DETAIL - NON-RATED WALLS
NO SCALE

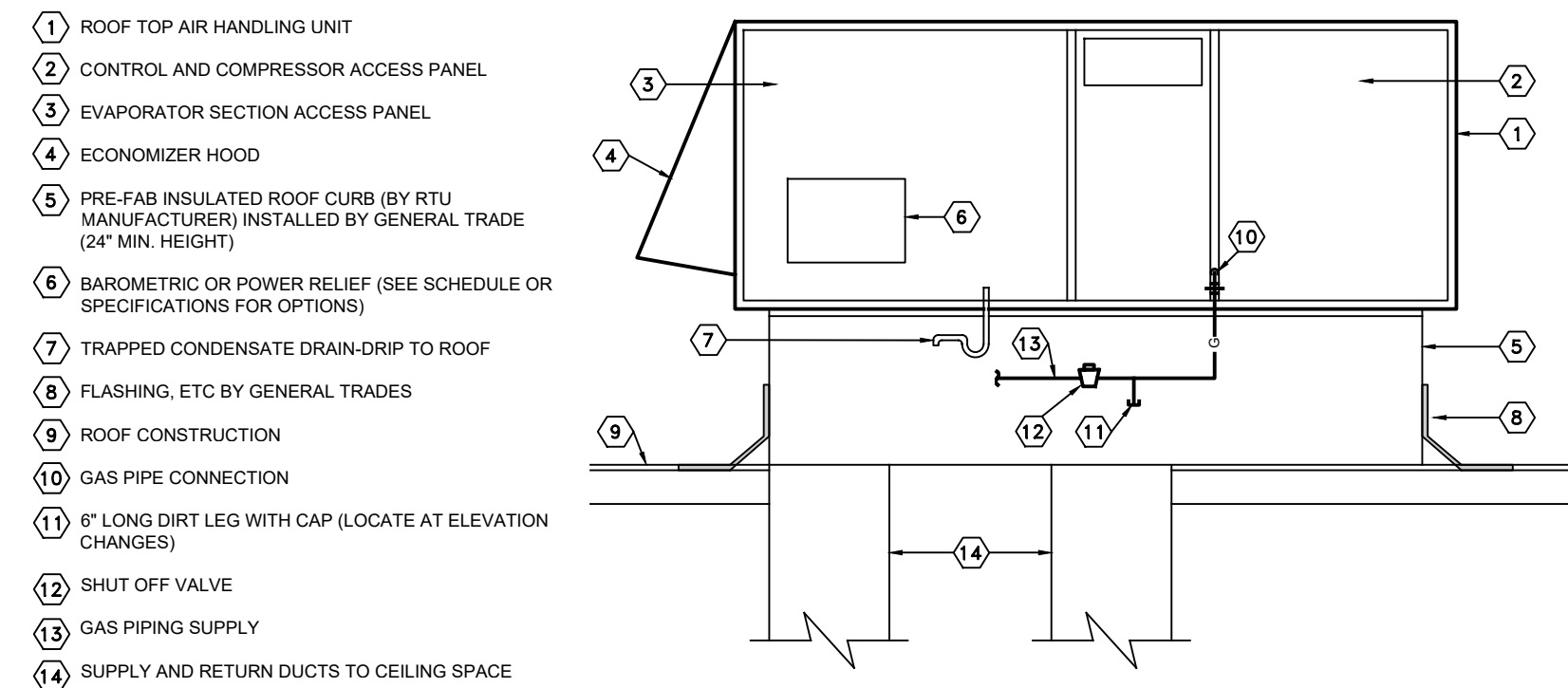


NOTE
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH A SQUARE VANE MITERED ELBOW.
3. NO MITERED ELBOWS WITHOUT VANES SHALL BE INSTALLED.

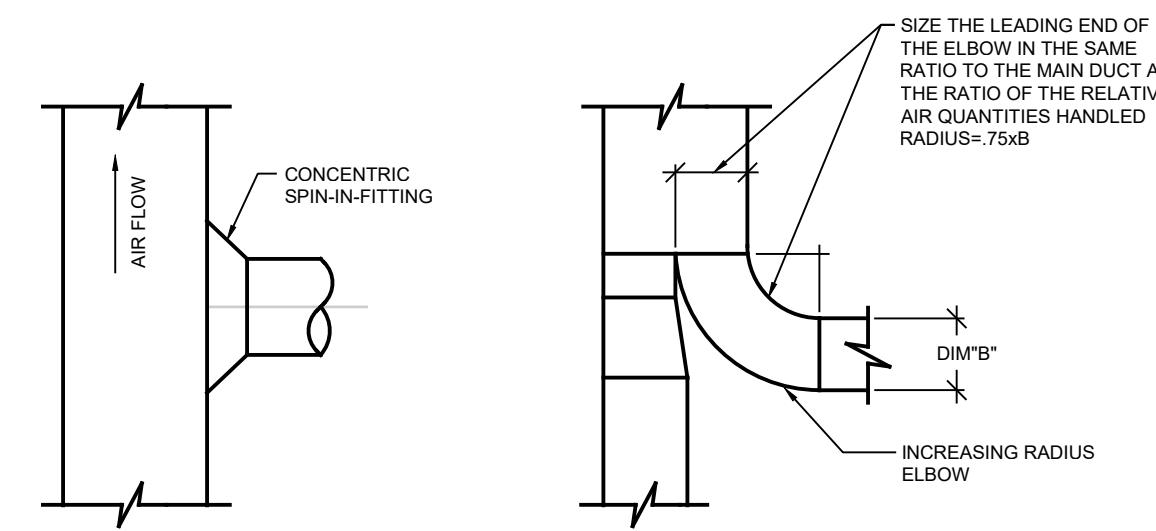
DUCTWORK RADIUS ELBOW
NO SCALE



VOLUME BOX DUCTING DETAIL
NO SCALE

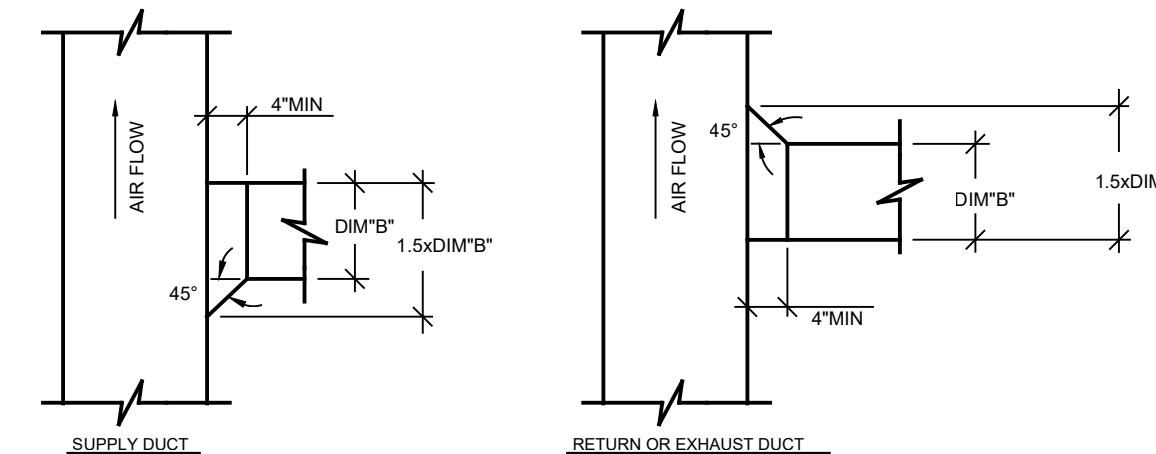


ROOF TOP UNIT DETAIL
NO SCALE

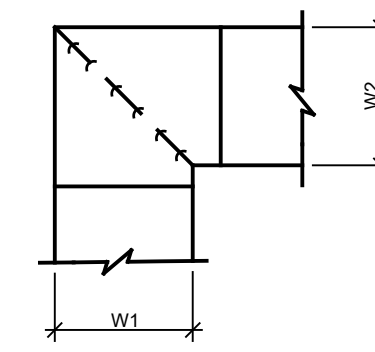


RECTANGULAR TO ROUND DUCT

SUPPLY, RETURN OR EXHAUST DUCT
FOR USE WHEN A BRANCH TAKE-OFF IS TO HANDLE MORE THAN 20% OF THE AIR HANDLED BY THE MAIN DUCT

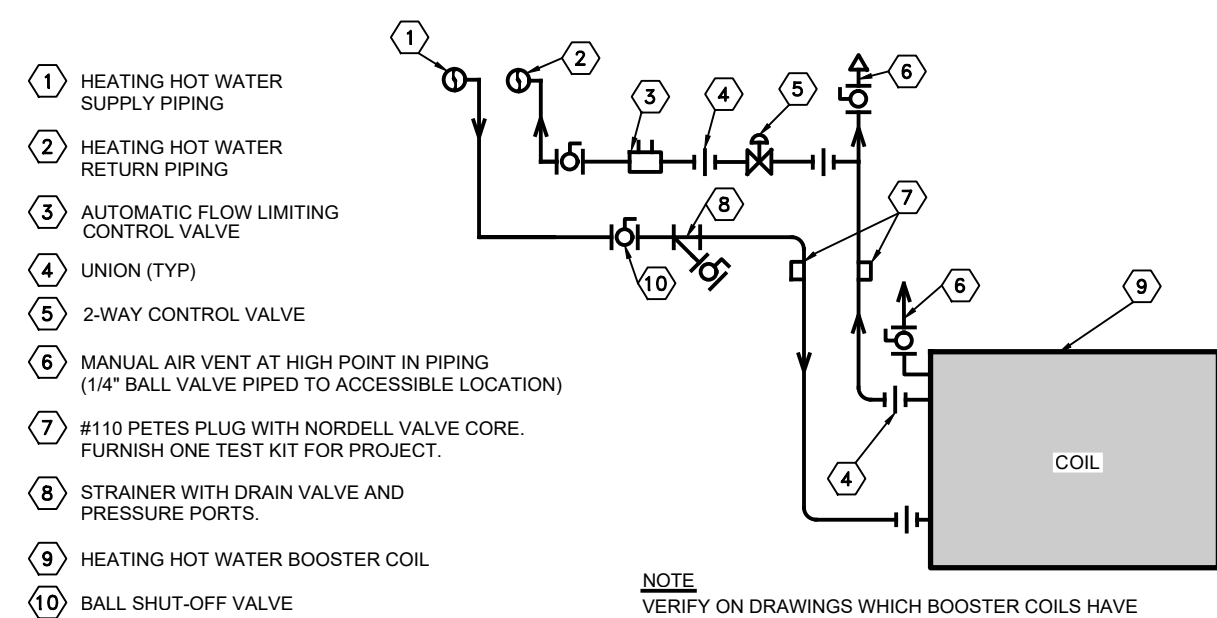


RECTANGULAR DUCT BRANCH TAKE-OFF DETAILS
NO SCALE

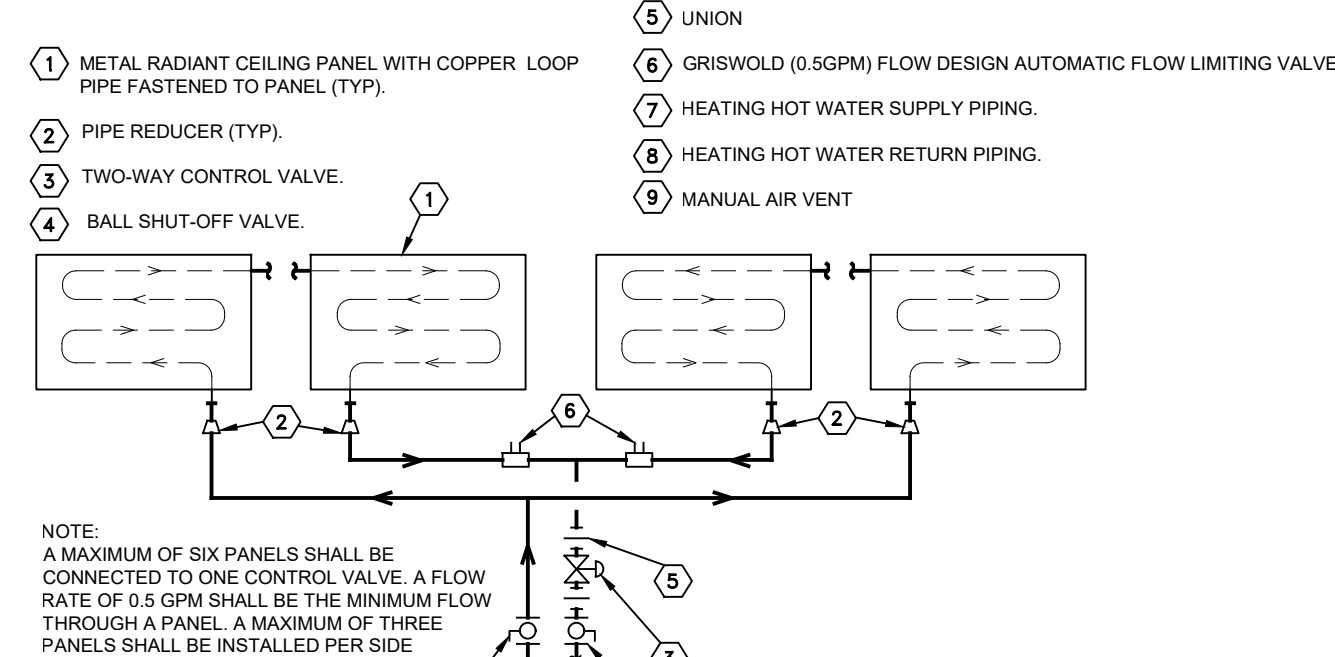


NOTE
1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20", VANES SHALL BE DOUBLE VANE TYPE.
5. NO MITERED ELBOW WITHOUT VANES SHALL BE INSTALLED.

DUCTWORK SQUARE VANE MITERED ELBOWS
NO SCALE



VAV BOX REHEAT COIL PIPING DETAIL WITH 2-WAY CONTROL VALVE
NO SCALE



MULTIPLE METAL RADIANT CEILING PANEL PIPING DETAIL
NO SCALE

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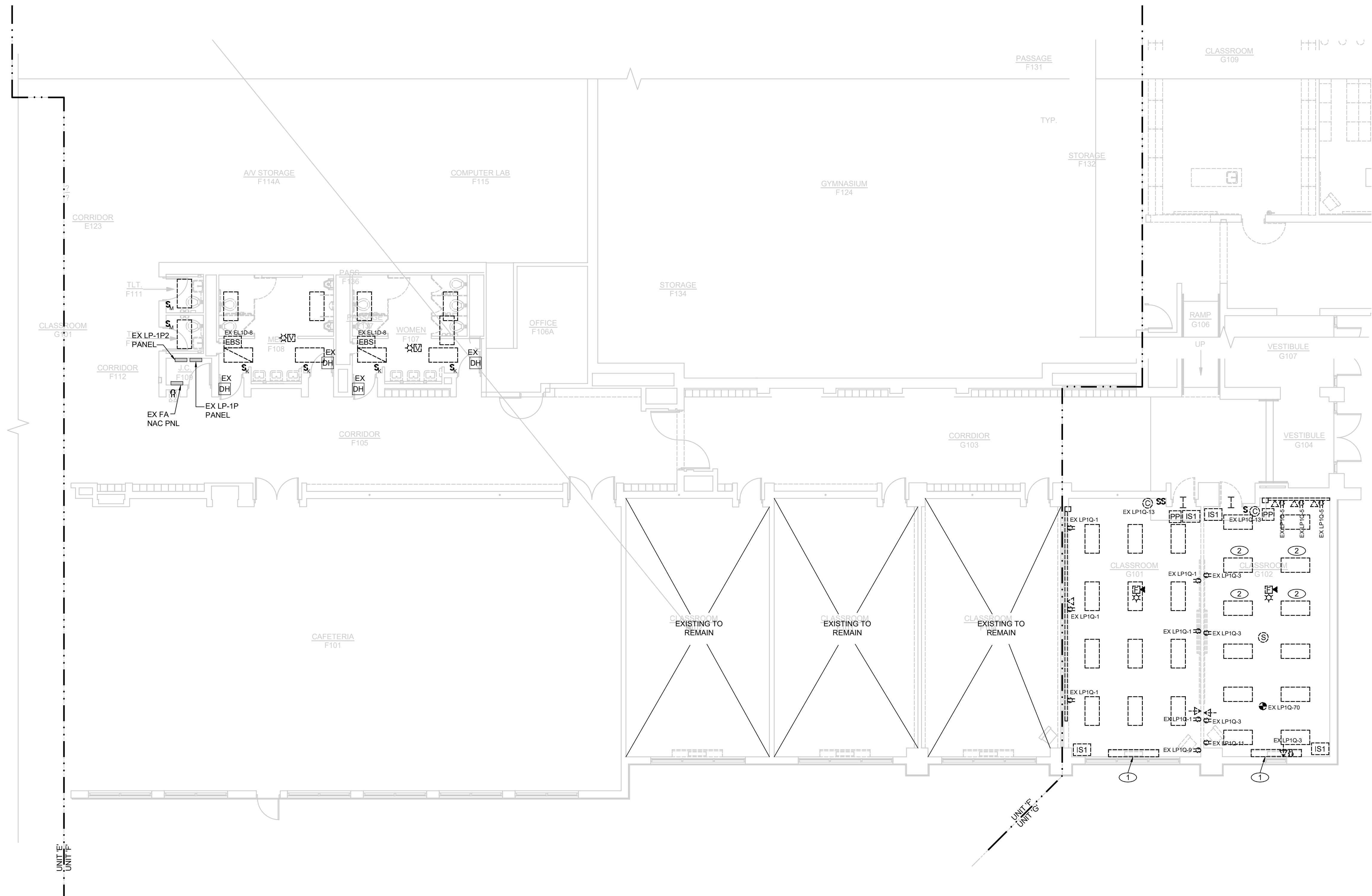
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PROJECT TITLE
RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN

SHEET TITLE
MECHANICAL DETAILS

PROJECT NUMBER 2018040.16	SHEET NUMBER M5.01
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY GRS	



- KEYED NOTES**
- 1 ELECTRICAL CONTRACTOR SHALL REMOVE FEED FROM UNIT VENTILATOR. REMOVE ALL CONDUCTORS AND RACEWAY BACK TO SOURCE.
 - 2 ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE LIGHT FIXTURE. LIGHT FIXTURE WILL BE REINSTALLED IN CORRIDOR AND VESTIBULE PER LIGHTING DESIGN.

- GENERAL NOTES DEMOLITION**
1. ELECTRICAL PANELS SHOWN ON THE DEMO PLAN ARE SHOWN FOR REFERENCE. DO NOT REMOVE PANELS UNLESS NOTED OTHERWISE. ALL PANELS AND TRANSFORMERS BEING REMOVED SHALL BE RETAINED BY THE COUNTY FOR REUSE. REFER TO POWER DRAWINGS.
 2. EC SHALL REMOVE AND PROPERLY DISPOSE OF ALL FIXTURES, LAMPS, BALLASTS AND WIRING SHOWN FOR DEMOLITION.
 3. EC SHALL REMOVE ALL BLANK COVERS ON BOXES TO CONFIRM THE TYPE OF WIRING, POWER OR LOW VOLTAGE. REMOVE ALL WIRING, BOXES IF EMPTY SHALL BE REMOVED FOR WALL PATCHING.
 4. ALL ITEMS SHOWN DASHED SHALL BE REMOVED UNLESS OTHERWISE NOTED.
 5. REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE FOR ALL DEVICES SHOWN TO BE REMOVED.
 6. REMOVE ALL DATA CABLES BACK TO THE IDF RACK FOR ALL DATA OUTLETS. A COMPLETE NEW LOW VOLTAGE SYSTEM SHALL BE INSTALLED BY OWNER.
 7. REMOVE ALL FIRE ALARM DEVICES. AS NOTES EXISTING MAIN FIRE ALARM CONTROL PANEL AND ASSOCIATED DEVICES IN AREA WITH LIMITED DEMOLITION SHALL REMAIN. IDENTIFY, PROTECT AND MARK EXISTING CABLING.
 8. REMOVE ALL WIRELESS ACCESS POINTS AND RETURN TO OWNER. REMOVE CABLING BACK TO THE SOURCE.
 9. REMOVE ALL HANGERS, SUPPORTS AND STRAPS ASSOCIATED WITH ITEMS BEING REMOVED.

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PROJECT TITLE
RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN

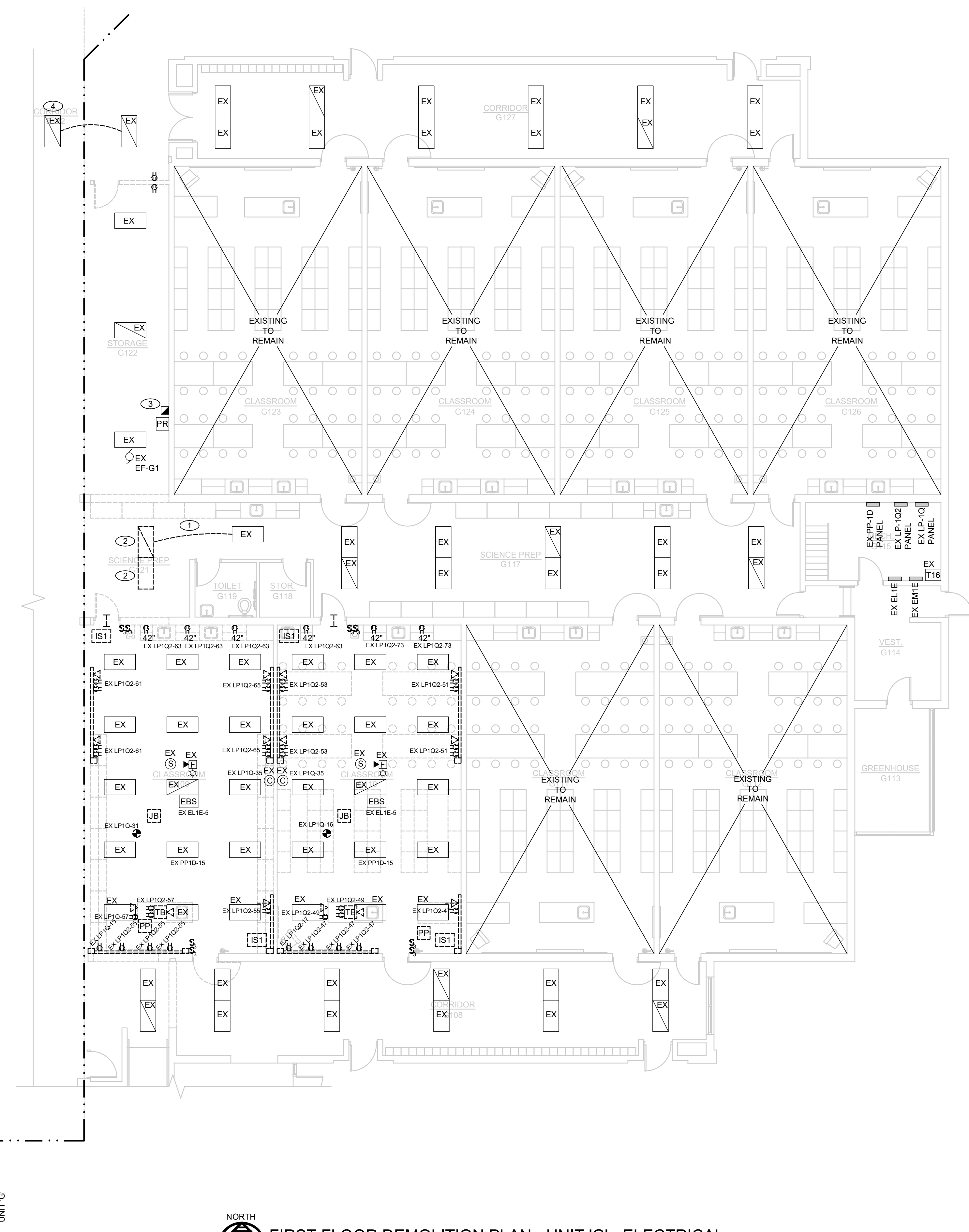
SHEET TITLE
FIRST FLOOR DEMOLITION PLAN - UNIT 'F' & 'G' - ELECTRICAL

PROJECT NUMBER 2018040.16	SHEET NUMBER E1.01
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY JWF	

NORTH

FIRST FLOOR DEMOLITION PLAN - UNIT 'F' & 'G' - ELECTRICAL

1/8"=1'-0"



KEYED NOTES

- 1 ELECTRICAL CONTRACTOR SHALL DISCONNECT LIGHTS FOR PREPARATION OF NEW CONSTRUCTION.
- 2 ELECTRICAL CONTRACTOR SHALL MOVE LIGHT FIXTURE TO NEW LOCATION.
- 3 ELECTRICAL CONTRACTOR SHALL MOVE POWER RELAY AND MANUAL MOTOR STARTER FOR EXISTING EXHAUST FAN TO NEW LOCATION.
- 4 SEPARATE THE CORRIDOR CIRCUITING TO PREPARE FOR THE NEW CORRIDOR WALL BEING INSTALLED TO CREATE THE NEW SEPARATION.

GENERAL NOTES DEMOLITION

1. ELECTRICAL PANELS SHOWN ON THE DEMO PLAN ARE SHOWN FOR REFERENCE. DO NOT REMOVE PANELS UNLESS NOTED OTHERWISE. ALL PANELS AND TRANSFORMERS BEING REMOVED SHALL BE RETAINED BY THE COUNTY FOR REUSE. REFER TO POWER DRAWINGS.
2. EC SHALL REMOVE AND PROPERLY DISPOSE OF ALL FIXTURES, LAMPS, BALLASTS AND WIRING SHOWN FOR DEMOLITION.
3. EC SHALL REMOVE ALL BLANK COVERS ON BOXES TO CONFIRM THE TYPE OF WIRING, POWER OR LOW VOLTAGE. REMOVE ALL WIRING, BOXES IF EMPTY SHALL BE REMOVED FOR WALL PATCHING.
4. ALL ITEMS SHOWN DASHED SHALL BE REMOVED UNLESS OTHERWISE NOTED.
5. REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE FOR ALL DEVICES SHOWN TO BE REMOVED.
6. REMOVE ALL DATA CABLES BACK TO THE IDF RACK FOR ALL DATA OUTLETS. A COMPLETE NEW LOW VOLTAGE SYSTEM SHALL BE INSTALLED BY OWNER.
7. REMOVE ALL FIRE ALARM DEVICES. AS NOTES EXISTING MAIN FIRE ALARM CONTROL PANEL AND ASSOCIATED DEVICES IN AREA WITH LIMITED DEMOLITION SHALL REMAIN. IDENTIFY, PROTECT AND MARK EXISTING CABLING.
8. REMOVE ALL WIRELESS ACCESS POINTS AND RETURN TO OWNER. REMOVE CABLING BACK TO THE SOURCE.
9. REMOVE ALL HANGERS, SUPPORTS AND STRAPS ASSOCIATED WITH ITEMS BEING REMOVED.

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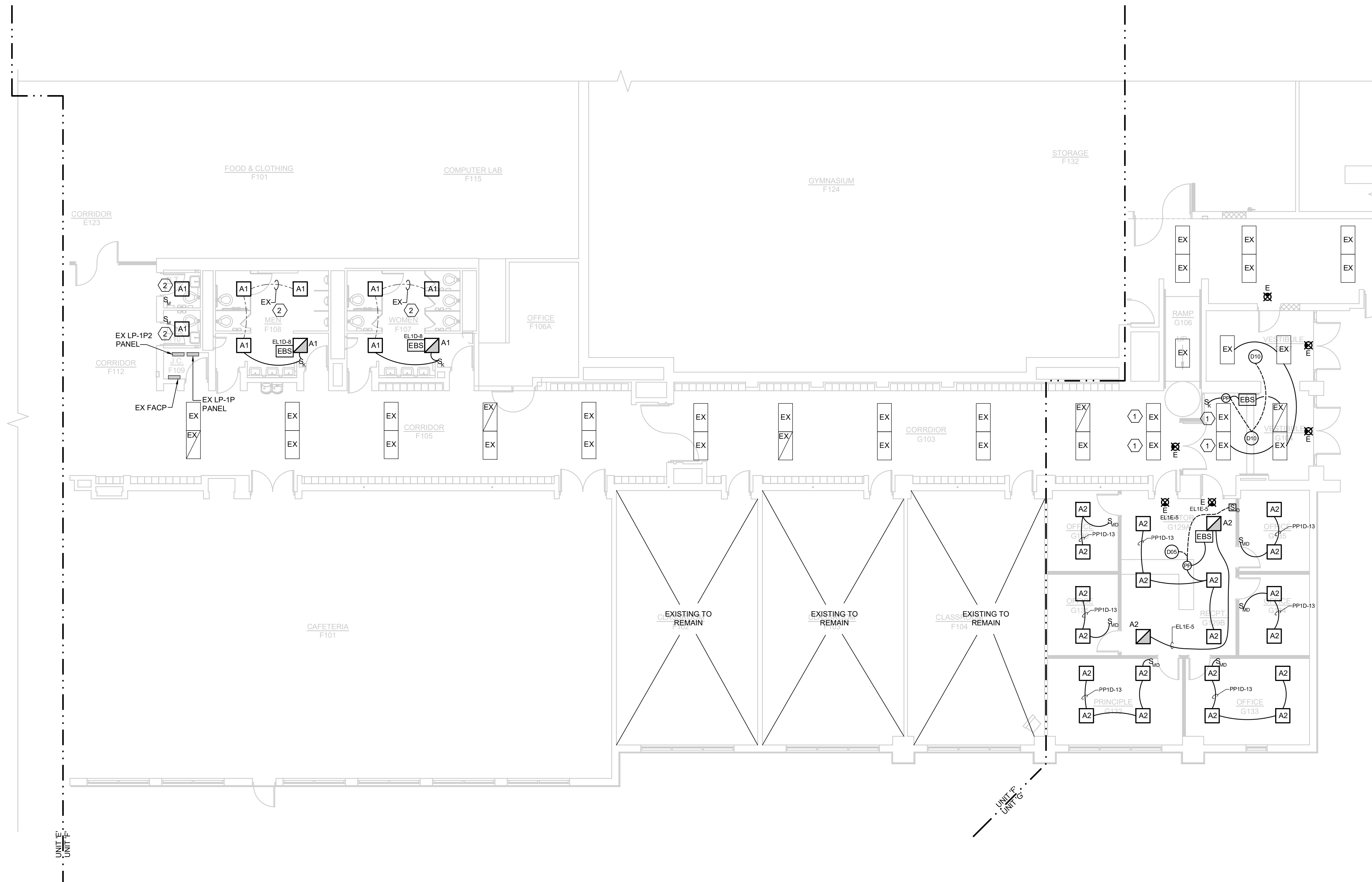
PROJECT TITLE
RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN

SHEET TITLE
FIRST FLOOR DEMOLITION PLAN - UNIT 'G' - ELECTRICAL

PROJECT NUMBER 2018040.16	SHEET NUMBER E1.02
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY JWF	

NORTH
FIRST FLOOR DEMOLITION PLAN - UNIT 'G' - ELECTRICAL
1/8"=1'-0"



- KEYED NOTES**
1. ELECTRICAL CONTRACTOR SHALL USE EXISTING G102 CLASSROOM 2X4 LIGHT FIXTURES FOR NEW LIGHTING LAYOUT IN VESTIBULE AND CORRIDOR. LIGHT FIXTURE TYPE SHALL MATCH EXISTING CORRIDOR LIGHT FIXTURES. CONNECT TO EXISTING LOCAL LIGHTING CIRCUIT.
 2. ELECTRICAL CONTRACTOR SHALL REUSE EXISTING LOCAL LIGHTING CIRCUIT FOR NEW BATHROOM FIXTURES.

- LIGHTING WIRING METHODS**
1. EXIT LIGHTS SHALL OPERATE 24-7 AND ARE EQUIPPED WITH A BATTERY RATED FOR 90 MINUTES. WIRE THE EXIT LIGHT TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
 2. HALF-TONE SHADED FIXTURES REPRESENTS THE FIXTURE IS AN EMERGENCY LIGHT AND POWERED FROM THE EMERGENCY GENERATOR.
 3. CONFIRM LIGHT FIXTURE LAYOUT WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ARCHITECTURAL DETAILS FOR LOCATION AND MOUNTING DETAILS.
 4. MC CABLE IS ONLY ACCEPTABLE AS A FINAL WIRING CONNECTION TO RECESSED LIGHTING INSTALLED IN ACCESSIBLE CEILINGS. MC CABLE LENGTH SHALL NOT EXCEED 6'-0".
 5. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR FOR LIGHTING CIRCUITS. THE USE OF THE RACEWAY FOR A GROUNDING PATH IS NOT ACCEPTABLE FOR THIS PROJECT.
 6. SMALL ROOMS SUCH AS STORAGE ROOM, INDIVIDUAL TOILET ROOMS, JANITORS CLOSET, DATA CLOSET AND OFFICES SHALL HAVE WALL SWITCH TYPE OCCUPANCY SENSORS SWITCHES TO AUTOMATICALLY CONTROL THE LIGHTS AS NOTED AND SPECIFIED ON THE DRAWINGS.
 7. OCCUPANCY SENSORS, POWER PACKS AND CONTROLS ARE SHOWN DIAGRAMMATICALLY. INFRARED SENSORS MUST REMAIN AT A MINIMUM OF 4'-0" AWAY FROM ANY MECHANICAL HEAT DIFFUSER TO ELIMINATE FALSE TRIPS. CIRCUIT LINES ARE SHOWN FROM SWITCHES TO LIGHT FIXTURES TO COMMUNICATE SWITCHING CONFIGURATION ONLY. ALL SENSORS, POWER PACKS AND WIRING MUST BE WIRED PER MANUFACTURER'S WIRING METHOD.
 8. A SINGLE POWER PACK CAN HAVE MULTIPLE SWITCHES WIRED TO THE DEVICE PROVIDED THAT THE FIXTURES BEING CONTROLLED BY THESE SWITCHES ARE ON THE SAME CIRCUIT. TWO POWER PACKS ARE REQUIRED IF A SECOND CIRCUIT IS INTRODUCED. REFER TO MANUFACTURER'S WIRING METHODS. POWER PACKS AND OR OCCUPANCY SENSORS SHALL INCLUDE A HVAC RELAY AS SCHEDULED AND NOTED ON THE DRAWINGS FOR THE BUILDING AUTOMATION SYSTEM CONNECTION. BUILDING AUTOMATION WIRING SHALL BE COMPLETED AS PART OF THE TEMPERATURE CONTROL CONTRACTOR'S BID.
 9. THE EC SHALL BE RESPONSIBLE FOR FIRE STOPPING PENETRATIONS THRU FIRE RATED WALLS FOR THEIR WORK.

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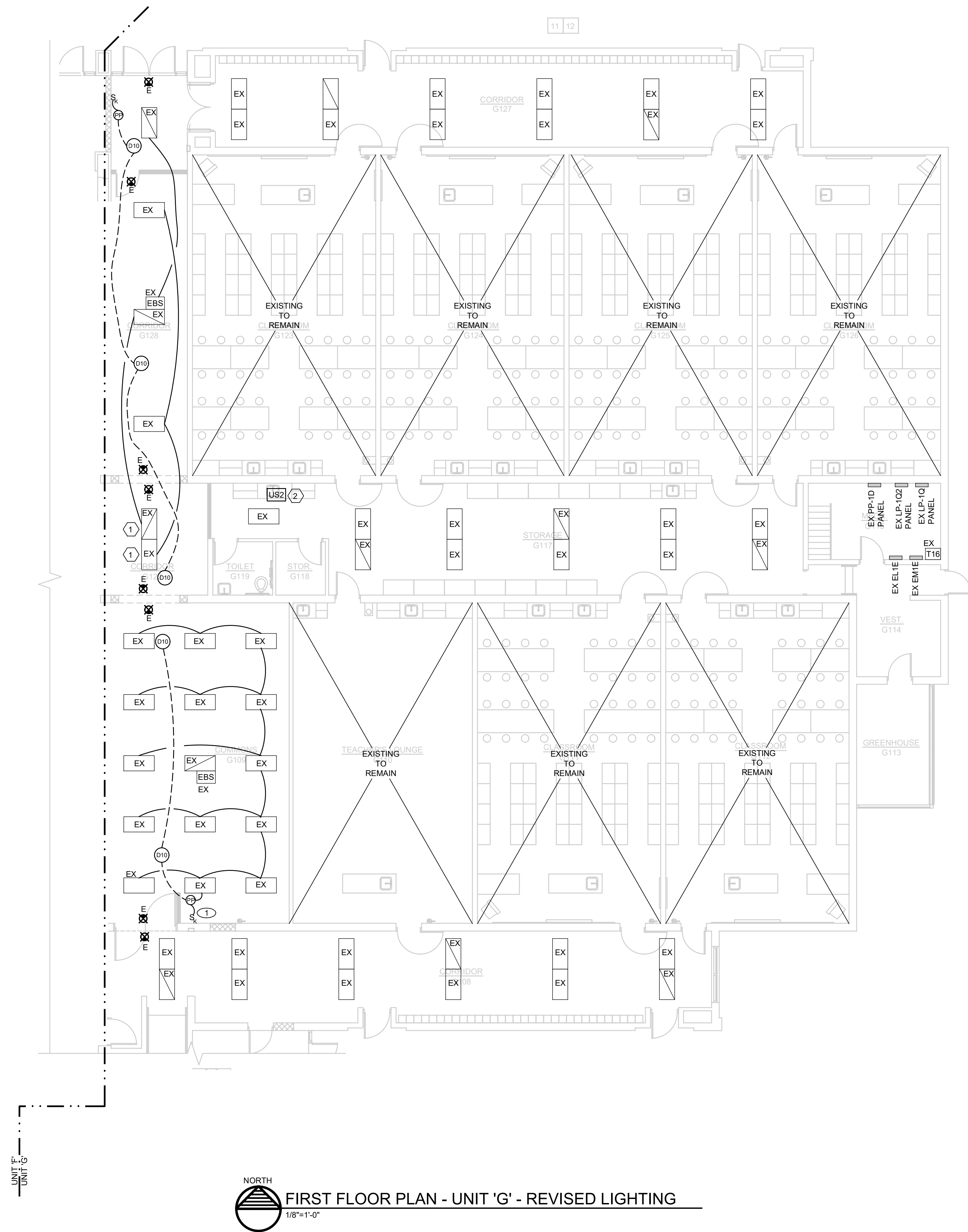
PROJECT TITLE
 RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.
 BAY CITY, MICHIGAN

SHEET TITLE
FIRST FLOOR PLAN - UNIT 'F' & 'G' - REVISED LIGHTING

PROJECT NUMBER 2018040.16	SHEET NUMBER E2.01
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY JWF	

NORTH
FIRST FLOOR PLAN - UNIT 'F' & 'G' - REVISED LIGHTING
 1/8"=1'-0"

- KEYED NOTES**
- 1 REPLACE EXISTING SWITCHES WITH NEW KEYED SWITCHES.



- LIGHTING WIRING METHODS**
1. EXIT LIGHTS SHALL OPERATE 24-7 AND ARE EQUIPPED WITH A BATTERY RATED FOR 90 MINUTES. WIRE THE EXIT LIGHT TO THE LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING.
 2. HALF-TONE SHADED FIXTURES REPRESENTS THE FIXTURE IS AN EMERGENCY LIGHT AND EQUIPPED WITH AN EMERGENCY BATTERY PACK.
 3. CONFIRM LIGHT FIXTURE LAYOUT WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ARCHITECTURAL DETAILS FOR LOCATION AND MOUNTING DETAILS.
 4. MC CABLE IS ONLY ACCEPTABLE AS A FINAL WIRING CONNECTION TO RECESSED LIGHTING INSTALLED IN ACCESSIBLE CEILINGS. MC CABLE LENGTH SHALL NOT EXCEED 6'-0".
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 6. SMALL ROOMS SUCH AS STORAGE ROOM, INDIVIDUAL TOILET ROOMS, JANITORS CLOSET, DATA CLOSET AND OFFICES SHALL HAVE WALL SWITCH TYPE OCCUPANCY SENSORS SWITCHES TO AUTOMATICALLY CONTROL THE LIGHTS AS NOTED AND SPECIFIED ON THE DRAWINGS.
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 9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE STOPPING PENETRATIONS THRU FIRE RATED WALLS FOR THEIR WORK.

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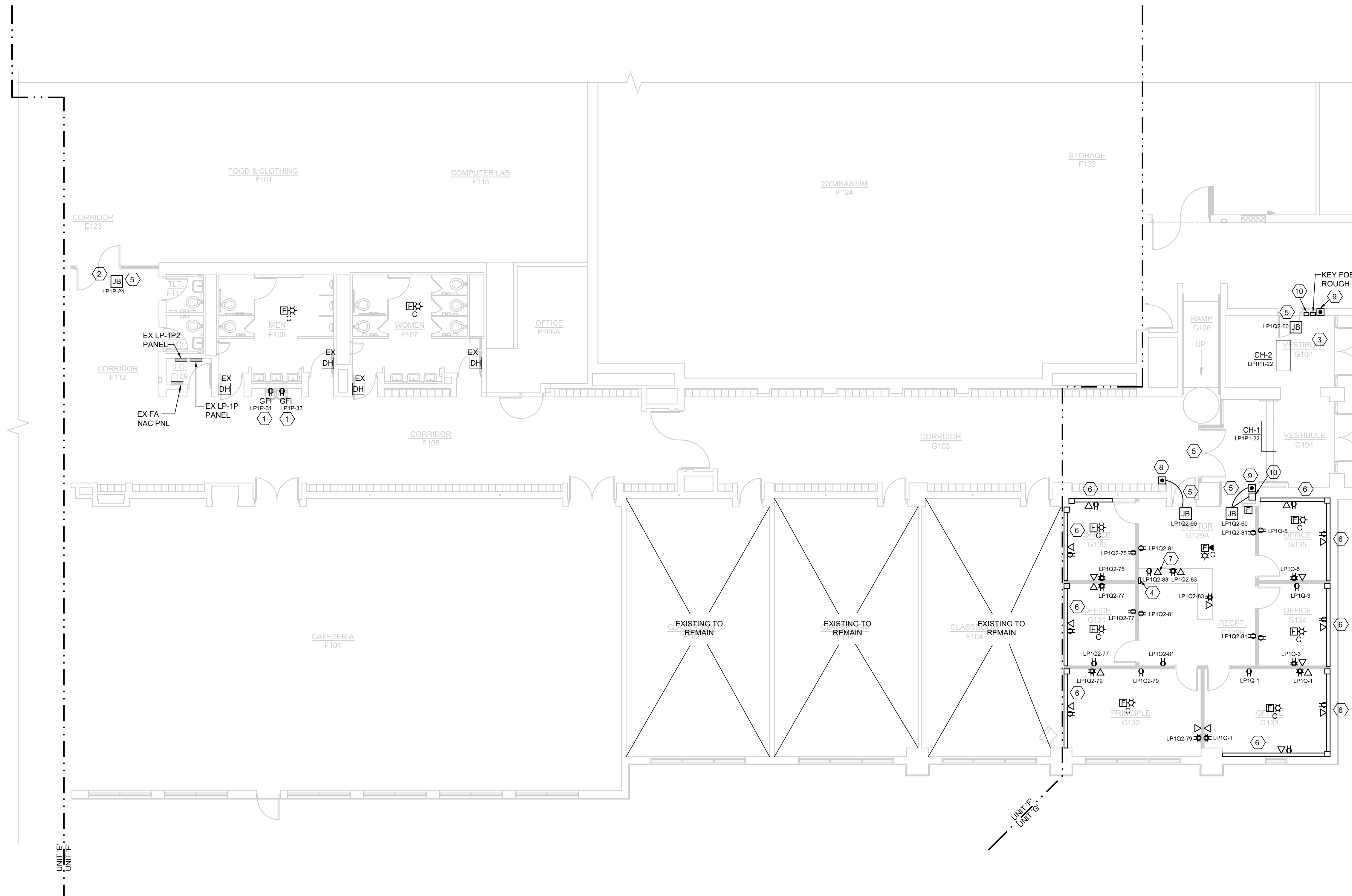
PROJECT TITLE
RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN

SHEET TITLE
FIRST FLOOR PLAN - UNIT 'G' - REVISED LIGHTING

PROJECT NUMBER 2018040.16	SHEET NUMBER E2.02
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY JWF	

NORTH
FIRST FLOOR PLAN - UNIT 'G' - REVISED LIGHTING
1/8"=1'-0"



POWER & SYSTEMS WIRING METHODS

1. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH RECEPTACLE CIRCUIT. SHARED NEUTRALS ARE NOT PERMITTED.
2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR EACH RECEPTACLE. PROVIDE A #12 MINIMUM GROUNDING CONDUCTOR IN EACH RACEWAY. THE USE OF METAL CONDUIT OR RACEWAY FOR A BOND PATH IS NOT ACCEPTABLE FOR THIS PROJECT. PROVIDE ISOLATED GROUND CONDUCTOR FOR THE AV CIRCUITS AS NOTED AND SPECIFIED.
3. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT.
4. ALL NEW RECEPTACLES AND VOICE/DATA OUTLETS SHALL BE MOUNTED AT A MINIMUM OF 16" TO THE BOTTOM OF BOX ABOVE THE FINISHED FLOOR, UNLESS NOTED OTHERWISE. 18" IS ONLY AN ACCEPTABLE MOUNTING HEIGHT PENDING FOR MASONRY COARSE LINE INSTALLATION. COORDINATE ALL DEVICE HEIGHTS WITH ARCHITECT.
5. ELECTRICAL TRADES SHALL CONFIRM VOICE/DATA AND RECEPTACLE LOCATION WITH THE OWNER'S FURNITURE LAYOUTS AND INSTALLATION.
6. GENERAL PURPOSE DUPLEX RECEPTACLES SHALL BE WHITE, GRAY OR IVORY AS ADVISED BY THE ARCHITECT.
7. FIRE ALARM WIRING INSTALLED ABOVE THE FINISHED CEILING IS ACCEPTABLE TO USE THE FREE-AIR METHOD. USE "J" HOOKS OR "D" RINGS FOR SUPPORT METHODS. PROVIDE PLENUM RATED CABLE FOR THE ENTIRE PROJECT.
8. FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 NATIONAL FIRE ALARM CODE, BUREAU OF FIRE SERVICES, 2003 MICHIGAN BARRIER FREE DESIGN MANUAL AND OTHER APPLICABLE CODES. MOUNTING HEIGHT REQUIREMENTS:
 - WALL MOUNTED AUDIO/VISUAL UNITS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR. CEILING MOUNTED DEVICES ARE ACCEPTABLE AND ARE NOTED ON THE DRAWINGS.
 - MANUAL PULL STATIONS SHALL BE MOUNTED 48" MAXIMUM TO THE TOP OF BOX FROM THE FINISHED FLOOR.
9. ALL BRANCH DEVICES SHALL USE A 4" SQUARE STEEL BOX WITH A SINGLE GANG TRIM RING FOR INTERIOR GYPSUM BOARD WALLS. MASONRY BOXES ARE ACCEPTABLE FOR MASONRY WALL INSTALLATION. NON-METALLIC BOXES ARE NOT ACCEPTABLE FOR THIS PROJECT.
10. J-HOOKS AND D-RINGS SHALL BE USED FOR THE LOW-VOLTAGE SYSTEM WIRING INCLUDING BUT NOT LIMITED TO: FIRE ALARM, VOICE, DATA, PA, LIGHTING CONTROL, ETC.
11. USE MINIMUM 1" CONDUIT SIZE FOR VOICE/DATA OUTLET DROPS. EXTEND THE CONDUIT TO THE ADJACENT CORRIDOR ACCESSIBLE CEILING SPACE.
12. MC CABLE IS ONLY ACCEPTABLE FOR FINAL LIGHT FIXTURE CONNECTIONS ABOVE THE LAY-IN CEILING ON THIS PROJECT, UNLESS SPECIFICALLY NOTED.
13. RECEPTACLES, VOICE AND DATA OUTLET LOCATIONS SHOWN IN THE OFFICES, WORKROOM, CONFERENCE/LOUNGE AREA ARE BASED ON WORKSTATION, CASEWORK SHOWN AND THE ANTICIPATED OFFICE FURNITURE ARRANGEMENTS. CONFIRM THE FINAL LOCATIONS DURING THE ROUGH-IN PHASE.
14. SSI = SIMONI SYSTEMS, INC. AUDIO AND VIDEO DESIGN/INSTALLER.
15. REFER TO SOUND SYSTEM DRAWINGS FOR SPECIFIC ROUGH-IN REQUIREMENTS. DO NOT RELY SOLELY ON THE ELECTRICAL DRAWINGS.
16. ALL NEW FIRE ALARM DEVICES SHALL BE INSTALLED AND TIED INTO EXISTING FIRE ALARM SYSTEM.
17. PA SPEAKER SYSTEM WIRING AND ASSOCIATED EQUIPMENT IS BY OWNER.
18. ALL PHONE AND DATA DESIGN IS BY OWNER.
19. ALL SECURITY SYSTEM DESIGN IS BY OWNER.
20. F107 AND F108 RESTROOM DOOR HOLDERS TO REMAIN.

KEYED NOTES

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW GFI RATED RECEPTACLES FOR ELECTRIC WATER COOLERS. 2. PROVIDE A FIRE ALARM SIGNAL TO THE DOOR LOCKS. THE DESIGN INTENT IS TO AUTOMATICALLY UNLOCK THE DOORS UPON A SIGNAL FROM THE FIRE ALARM SYSTEMS. COORDINATE WITH THE DOOR HARDWARE INSTALLER 3. PROVIDE AIPHONE INTERCOM STATION. PROVIDE CONTROL CABLING TO DOOR HARDWARE ELECTRIC LOCK FROM PUSH BUTTON IN OFFICE 4. PROVIDE AI PHONE INTERCOM STATION WITH DOOR LOCK BUTTON TO COORDINATE WITH STATION IN VESTIBULE 5. PROVIDE A 1/2" CONDUIT TO THE DOOR FRAME WITH 120 VOLT POWER IN A JUNCTION BOX NEAR THE DOOR. COORDINATE WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE. 6. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW 4000 SERIES WIRE MOLD. 7. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL 1" CONDUIT IN ACCESSIBLE CEILING SPACE FOR FUTURE DOOR CONTROLS | <ol style="list-style-type: none"> 8. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ADA PUSHBUTTON IN NEW GYP WALL. 9. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL RECESSED ADA PUSHBUTTON. 10. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW INTERCOM AND CAMERA DEVICE ROUGH-IN |
|--|--|

NORTH

FIRST FLOOR PLAN - UNIT 'F' & 'G' - REVISED POWER AND SYSTEMS
 1/8"=1'-0"

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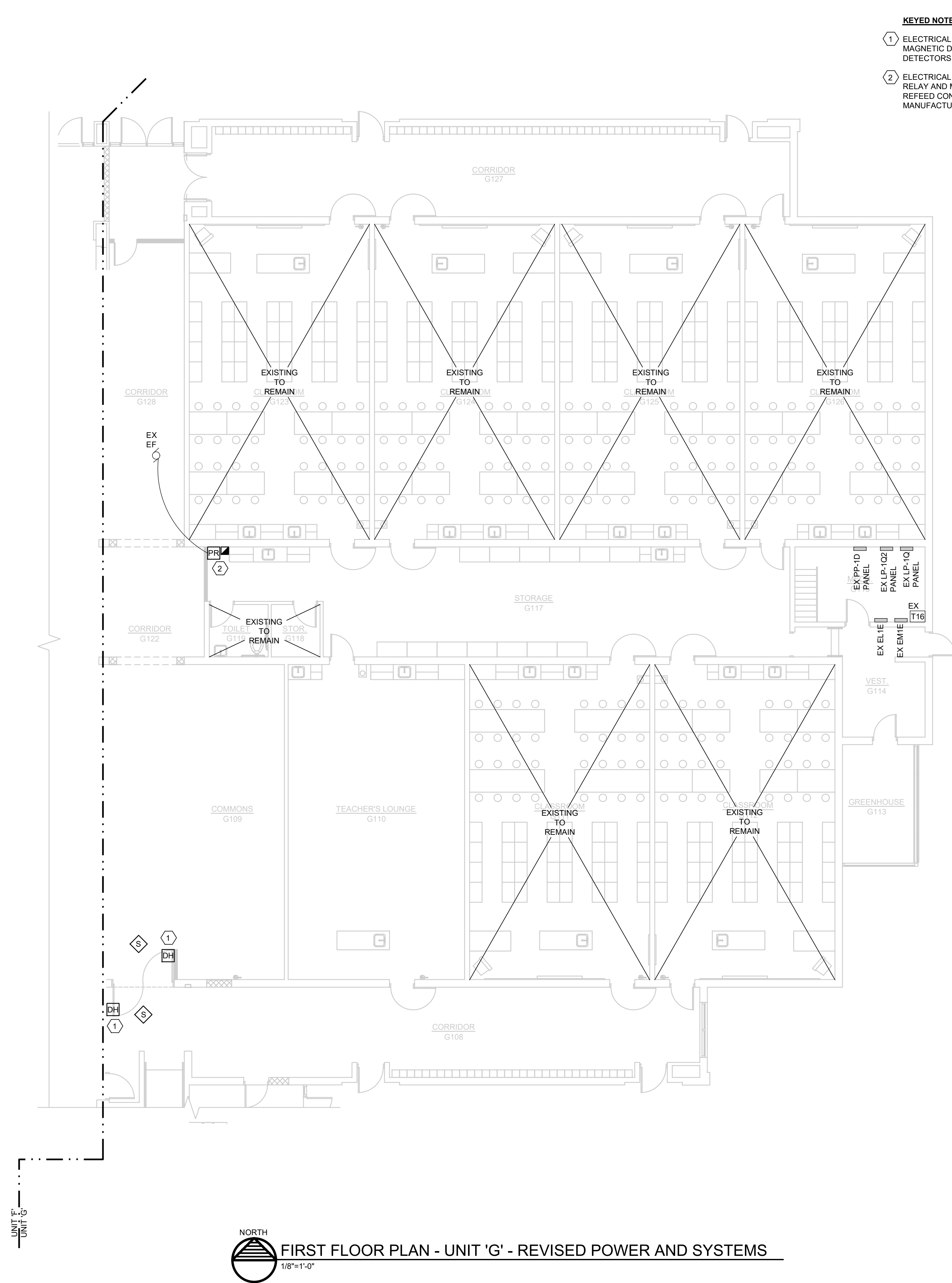
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PROJECT TITLE
 RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN

SHEET TITLE FIRST FLOOR PLAN - UNIT 'F' & 'G' - REVISED POWER AND SYSTEMS	
PROJECT NUMBER 2018040.16	SHEET NUMBER E2.03
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY JWF	



KEYED NOTES

- 1 ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL MAGNETIC DOOR HOLDER CONTROLLER BY LOCAL SMOKE DETECTORS THROUGH FIRE ALARM SYSTEM.
- 2 ELECTRICAL CONTRACTOR SHALL REINSTALL POWER RELAY AND MANUAL MOTOR STARTER IN NEW LOCATION. REFEED CONNECTION TO EXHAUST FAN AND WIRE PER MANUFACTURERS SPECIFICATIONS IF NECESSARY.

POWER & SYSTEMS WIRING METHODS

1. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH RECEPTACLE CIRCUIT. SHARED NEUTRALS ARE NOT PERMITTED.
2. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR EACH RECEPTACLE. PROVIDE A #12 MINIMUM GROUNDING CONDUCTOR IN EACH RACEWAY. THE USE OF METAL CONDUIT OR RACEWAY FOR A BOND PATH IS NOT ACCEPTABLE FOR THIS PROJECT. PROVIDE ISOLATED GROUND CONDUCTOR FOR THE AV CIRCUITS AS NOTED AND SPECIFIED.
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19. ALL SECURITY SYSTEM DESIGN IS BY OWNER.
20. F107 AND F108 RESTROOM DOOR HOLDERS TO REMAIN.

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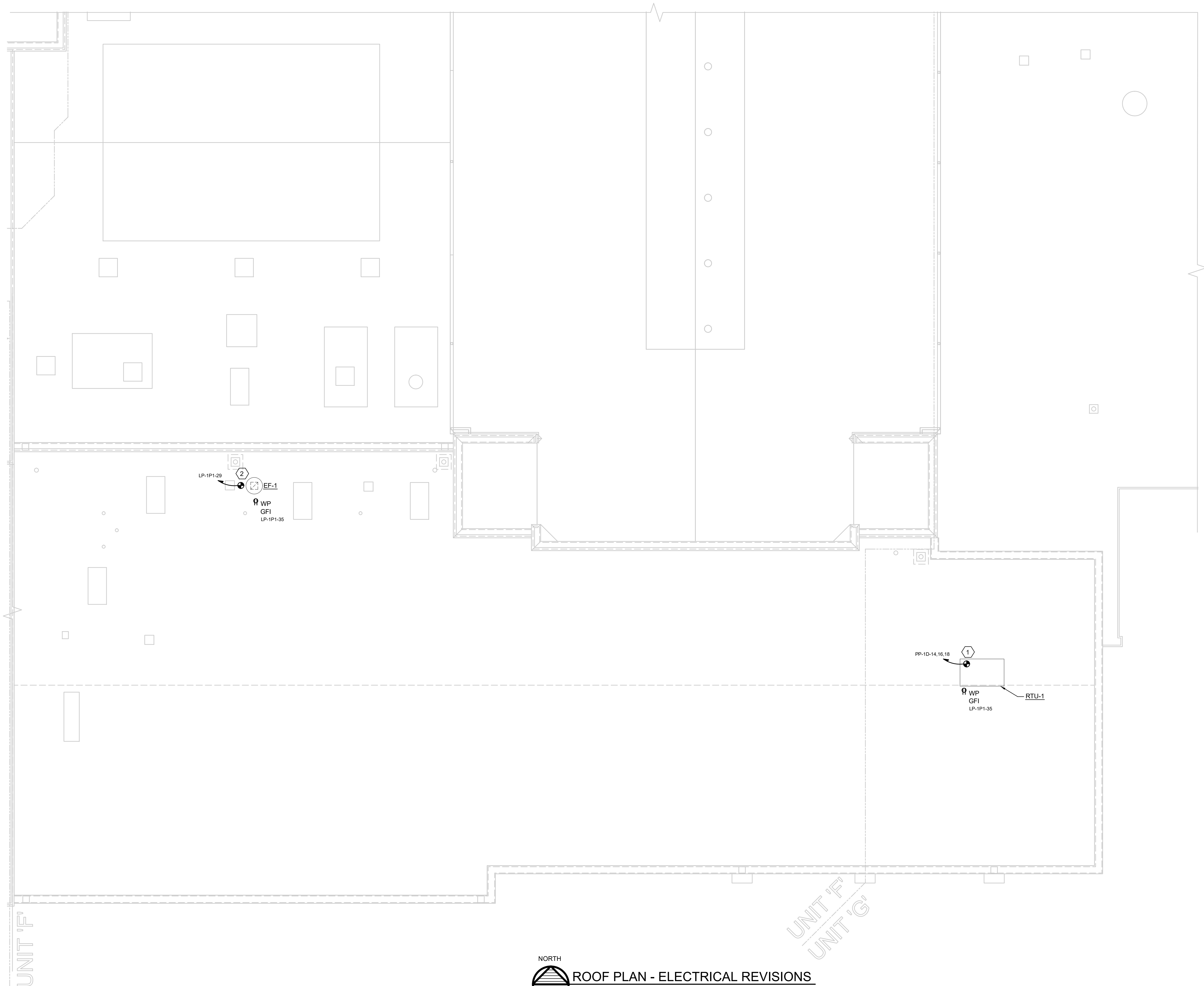
PROJECT TITLE
RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN

SHEET TITLE
FIRST FLOOR PLAN - UNIT 'G' - REVISED POWER AND SYSTEMS

PROJECT NUMBER 2018040.16	SHEET NUMBER E2.04
PROJECT DATE FEBRUARY 1, 2024	
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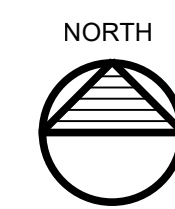
NORTH
FIRST FLOOR PLAN - UNIT 'G' - REVISED POWER AND SYSTEMS
1/8"=1'-0"



- KEYED NOTES**
- 1 ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL FEED FOR NEW RTU-1. ELECTRICAL CONTRACTOR SHALL WIRE ACCORDING TO MANUFACTURERS SPECIFICATIONS. MECHANICAL UNIT PROVIDED WITH DISCONNECT.
 - 2 ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL FEED FOR NEW EF-1. ELECTRICAL CONTRACTOR SHALL WIRE ACCORDING TO MANUFACTURERS SPECIFICATIONS. MECHANICAL UNIT PROVIDED WITH DISCONNECT.

UNIT 'F'

UNIT 'F'
UNIT 'G'

NORTH
 **ROOF PLAN - ELECTRICAL REVISIONS**
 1/8"=1'-0"

NO.	REVISION	DATE

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

PROJECT TITLE
 RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH SCHOOL AT HANDY M.S.
 BAY CITY, MICHIGAN

SHEET TITLE
**ROOF PLAN
 ELECTRICAL REVISIONS**



















PROJECT NUMBER 2018040.16	SHEET NUMBER E2.05
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY JWF	

ELECTRICAL SYMBOLS








LIGHTING

-  2x4' LIGHT FIXTURE, TYPE INDICATED
-  HALF SHADED FIXTURES ARE EMERGENCY FIXTURES
-  2x2' LIGHT FIXTURE, TYPE INDICATED
-  EXIT LIGHT
-  MOUNTED EXIT LIGHT
















LIGHTING CONTROLS

-  SINGLE POLE SWITCH
-  3-WAY SWITCH
-  WEATHERPROOF SWITCH
-  WALL MOTION SWITCH SENSOR
ACUITY #WSX SERIES OR EQUAL
-  COMBINATION WALL MOTION, DIMMING SWITCH SENSOR
ACUITY #WSX D SERIES OR EQUAL
-  DIMMING SWITCH, 0-10 VOLT
ACUITY #SPDMRA D SERIES OR EQUAL
-  LOW VOLTAGE ON/OFF BUTTON SWITCH
ACUITY #NPDMA SERIES OR EQUAL
-  LOW VOLTAGE ON/OFF, DIMMING,
ACUITY #NPDMA DX SERIES OR EQUAL
-  LOW VOLTAGE ON/OFF WITH INTEGRATED IR MOTION SENSOR
ACUITY #NWSX LV SERIES OR EQUAL
-  LOW VOLTAGE ON/OFF, DIMMING WITH INTEGRATED IR MOTION SENSOR
ACUITY #NWSX LV DX SERIES OR EQUAL
-  LOW VOLTAGE SWITCH, REFER TO CONTROLS SUMMARY FOR DETAILS
-  POWER RELAY
-  POWER RELAY PACK
ACUITY #NPP16 D SERIES OR EQUAL
-  DUAL TECH, CEILING MOUNTED, LARGE-MOTION DETECTION,
2000 SQFT RADIAL COVERAGE SENSOR
ACUITY #NCM PDT 10 SERIES OR EQUAL
-  DUAL TECH 360°, CEILING MOUNTED, SMALL-MOTION DETECTION,
500 SQFT RADIAL COVERAGE SENSOR
ACUITY #NCM PDT 9 SERIES OR EQUAL
-  PASSIVE INFRARED HALLWAY MOTION SENSOR, 130' RANGE,
ACUITY #HW13 SERIES OR EQUAL
-  CEILING MOUNTED MOTION SENSOR WITH PHOTOCELL FOR AUTO DIMMING
ACUITY #NCM XXX X XXX ADCX
-  UL 924 DEVICE

FIRE ALARM

-  FIRE ALARM CONTROL PANEL
-  FIRE ALARM TAMPER SWITCH
-  FIRE ALARM FLOW SWITCH
-  FIRE ALARM PULL STATION
-  FIRE ALARM STROBE ONLY
-  CEILING MOUNTED FIRE ALARM STROBE ONLY
-  CEILING MOUNTED FIRE ALARM AUDIO/STROBE COMBO

POWER

-  SINGLE RECEPTACLE
-  DUPLEX RECEPTACLE
-  QUADPLEX RECEPTACLE
-  GFCI RECEPTACLE
-  FEED THROUGH GFCI DEVICE
-  DUPLEX RECEPTACLE WITH USB PORTS (1 USB-A / 1 USB-C)
-  DEVICE CONNECTION
-  MANUAL MOTOR STARTER
-  CONTACTOR
-  JUNCTION BOX
-  FLUSH MOUNTED PANEL
-  PANELBOARD
-  TRANSFORMER
-  SINGLE PHASE MOTOR
-  THREE PHASE MOTOR

ABBREVIATIONS

- WP DENOTES WEATHER PROOF
- AC ABOVE COUNTER
- EC ELECTRICAL CONTRACTOR
- EX EXISTING
- GFI GROUND FAULT CIRCUIT INTERRUPTER
- WR WEATHER RESISTANT
- LP LIGHTING PANEL
- RP RECEPTACLE PANEL
- CU COPPER
- AL ALUMINUM
- ATS AUTOMATIC TRANSFER SWITCH
- FAA FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL

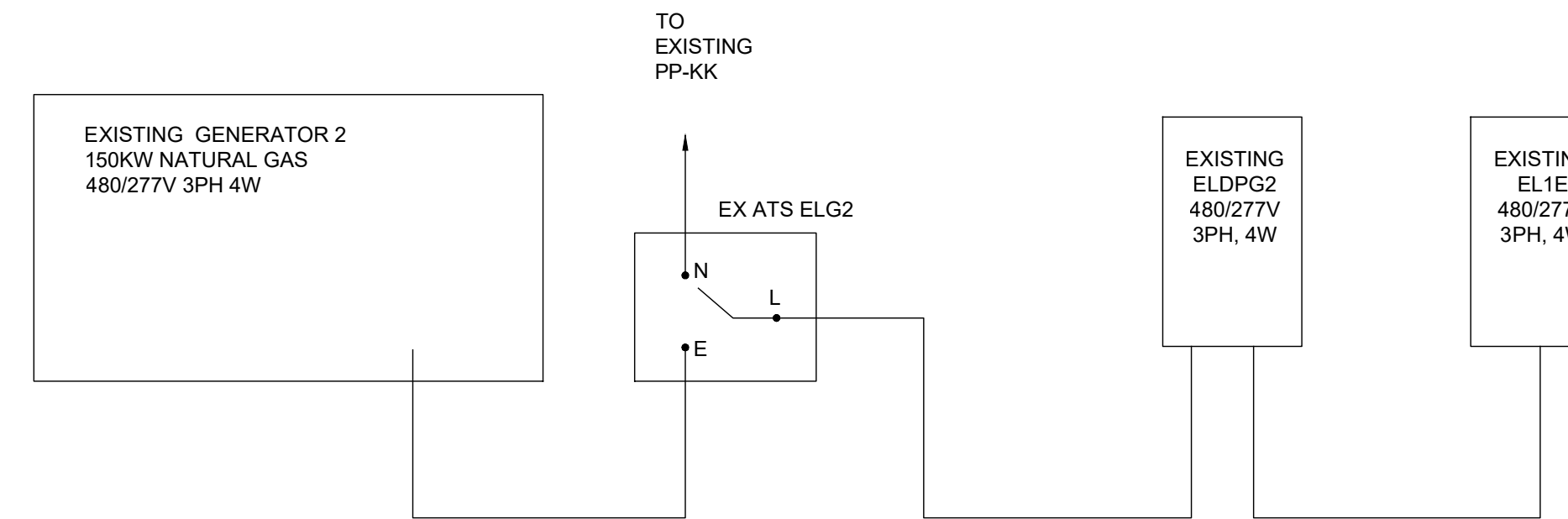
AI PHONE SCHEDULE

- AI PHONE AX SERIES
- (1) HANDSET/ VIDEO
- (2) DOOR STATIONS WITH CAMERA

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION
A1	LITHONIA CPX LED PANEL, 2X2, 3200 LUMEN, 80CRI, 4000K COLOR TEMPERATURE, SATIN WHITE DIFFUSER, 120-277VOLT, 28 WATT LITHONIA# CPX 2X2 3200LM 80CRI 40K SWL MVOLT
A2	LITHONIA CPX LED PANEL, 2X2, 5000 LUMEN, 80CRI, 4000K COLOR TEMPERATURE, SATIN WHITE DIFFUSER, 120-277VOLT, 40 WATT LITHONIA# CPX 2X2 5000LM 80CRI 40K SWL MVOLT
E	LITHONIA EXIT SIGNAGE, LED LQC, MATTE BLACK, BRUSHED ALUMINUM FACE, SINGLE FACE, RED LETTER COLOR, BATTERY BACK-UP LITHONIA #LQC-1-R-EL-N

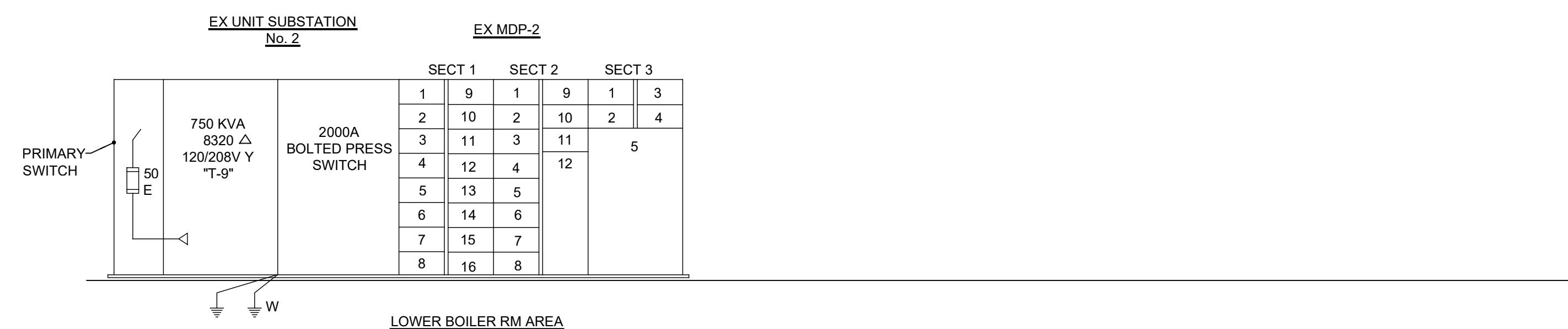
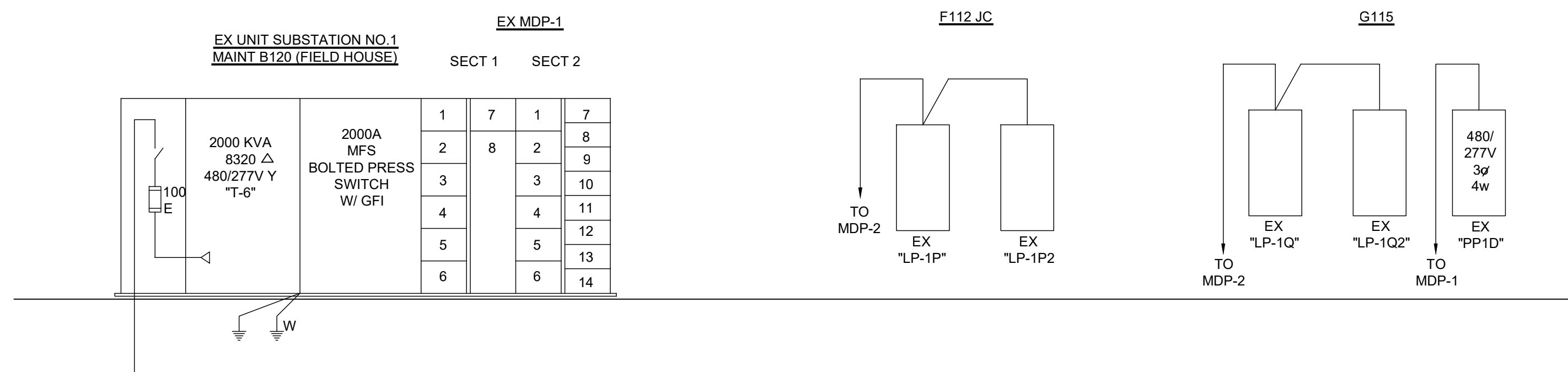
GENERATOR LOAD SUMMARY	
EXISTING LOAD SUMMARY:	
LIGHTING	18.3KW
HVAC	3.0KW
BOILER SYSTEM	25KW
MISC	4.2KW
TOTAL: 99KW @480V 3PH = 119AMPS	
ADDED NEW LOAD:	
LIGHTING	0.2KW
TOTAL NEW LOAD: 99.2KW @ 480V 3PH = 120AMPS	



PARTIAL EMERGENCY POWER RISER DIAGRAM

LP-1P/LP-1P2 LOAD SUMMARY:	
RECEPTACLES	1.44KW
HVAC	1.32KW
EXISTING	20KW
TOTAL CONNECTED LOAD: 22.76KW @208V 3PH = 63AMPS	

LP-1Q/LP-1Q2 LOAD SUMMARY:	
RECEPTACLES	53KW
EXISTING	6.1KW
TOTAL CONNECTED LOAD: 59.1KW @208V 3PH = 164AMPS	



PARTIAL NORMAL POWER RISER DIAGRAM

NO.	REVISION	DATE

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(989) 894-4300 F (989) 894-9930 WWW.MACMILLANASSOCIATES.COM

PROJECT TITLE
RENOVATION FOR BCPS:
BAY CITY EASTERN HIGH
SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN

SHEET TITLE
ELECTRICAL
INFORMATION

PROJECT NUMBER 2018040.16	SHEET NUMBER E3.01
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY JWF	

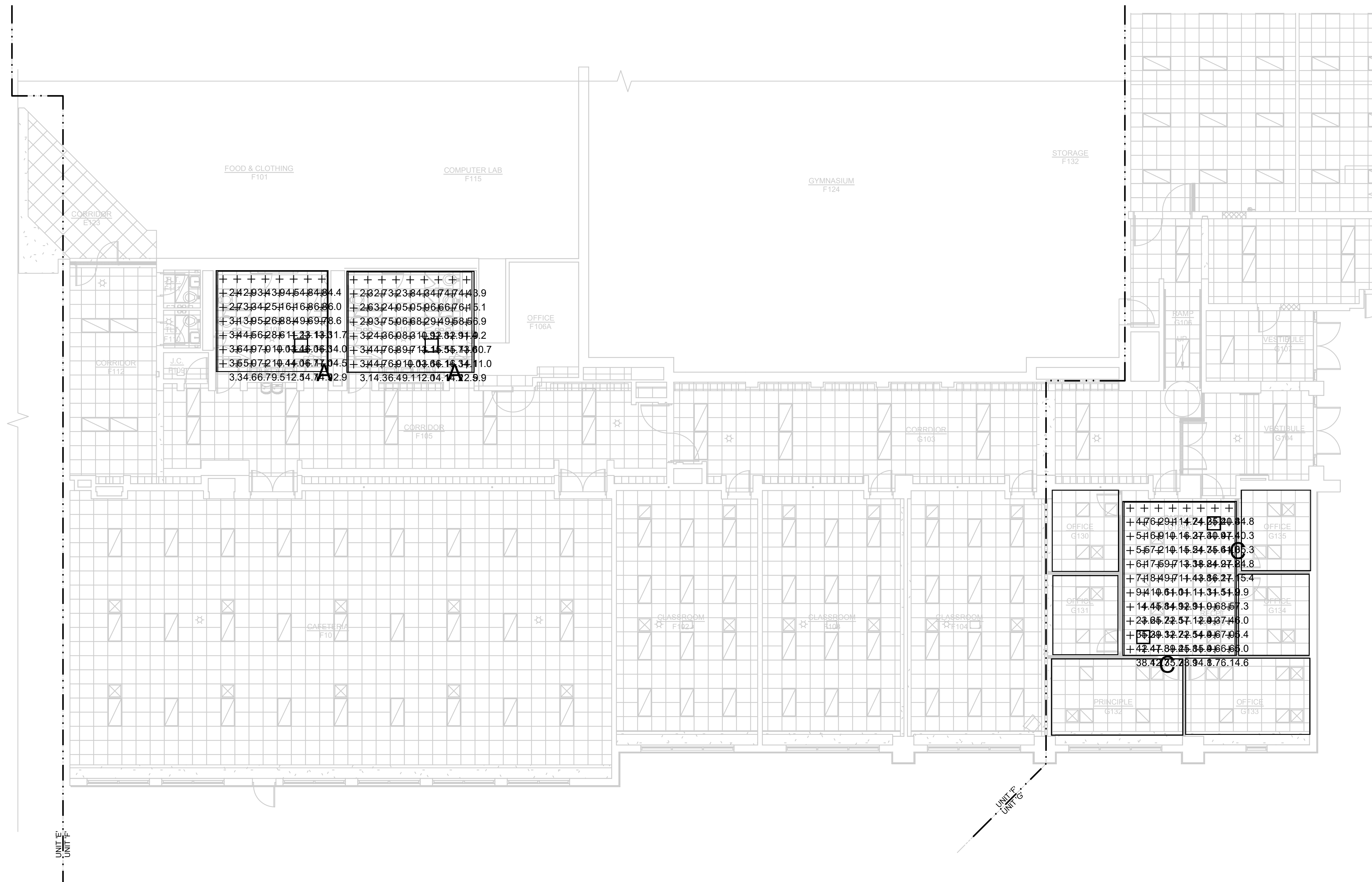
EXISTING		MAIN: SIZE & TYPE: 100 A				PANEL LOCATION: EL-1E									
EL-1E		BUS RATING: 100 A				FEEDER SIZE:									
		VOLTAGE: 277 / 480 V 1 Ø, 3 WIRE				FED FROM:									
		MOUNTING:				MIN RMS AMPS:									
CKT #	CIRCUIT DESCRIPTION	LOAD (KVA)			AMPS / POLES	CKT #	Q	W	CKT #	AMPS / POLES	LOAD (KVA)			CIRCUIT DESCRIPTION	CKT #
1	EX CORR G127, F122,123, K117A	A	B	C	20'1	1	E	2	20'1	A	B	C	EX EXIT LIGHTS	2	
3	EX CORR G109,105,103, F105 LTS				20'1	3	E	4	20'1				EX UNIT #83 EXTERIOR LIGHTS	4	
5	EX UNINT G SCIENCE RM LIGHTS				20'1	5	E	6	20'1				EX F124,F118,F120 LIGHTS	6	
7					7	8								8	
9					9	10								10	
11					11	12								12	
13					13	14								14	
15					15	16								16	
17					17	18								18	
19					19	20								20	
LOAD SUMMARY		KVA CONNECTED				KVA SUMMARY				TOTAL DEMAND					
RECEPTACLES	R	0.000			0.000				0.000	0.000	0.000	0.000			
LIGHTING	L	0.000			0.000				0.000	1.000	0.000	0.000			
HVAC	H	0.000			0.000				0.000	0.950	0.000	0.000			
OTHER	O	0.000			0.000				0.000	0.600	0.000	0.000			
EXISTING	E	0.000			0.000				0.000	1.000	0.000	0.000			
TOTAL KVA		0.000			0.000				0.000	2.550	0.000	0.000		TOTAL ESTIMATE KVA	
VOLTS / PHASE		277			277				208	120	120	120		SYSTEM VOLTAGE	
AMPS / PHASE		0.000			0.000				480	480	0.000	0.000		AMPS	
NOTES: EC SHALL PROVIDE SURGE SUPPRESSION DEVICE (IF EM PNL PER NEC 700 & 701)															

EXISTING		MAIN: SIZE & TYPE: A				PANEL LOCATION: G115									
PNL EM-1E		BUS RATING: 208 A				FEEDER SIZE:									
		VOLTAGE: 120 / 208 V 3 Ø, 4 WIRE				FED FROM:									
		MOUNTING:				MIN RMS AMPS:									
CKT #	CIRCUIT DESCRIPTION	LOAD (KVA)			AMPS / POLES	CKT #	Q	W	CKT #	AMPS / POLES	LOAD (KVA)			CIRCUIT DESCRIPTION	CKT #
1	EX MAIN BREAKER	A	B	C	50	1	E	2	20'1	A	B	C	EX RTU 10 COIL PUMP	2	
3	EX MAIN BREAKER				7	3	E	4	20'1				EX RTU 10 COIL PUMP	4	
5	EX MAIN BREAKER				3P	5	E	6	15'1				EX CABINET HEATER	6	
7	EX SMALL GYM				20'1	7	E	8	20'1				EX FIRE ALARM NAC	8	
9	EX TUNNEL				20'1	9	E	10						10	
11					11	12								12	
13					13	14								14	
15					15	16								16	
17					17	18		15'1					EX JOHNSON CONTROL	18	
LOAD SUMMARY		KVA CONNECTED				KVA SUMMARY				TOTAL DEMAND					
RECEPTACLES	R	0.000			0.000				0.000	0.000	0.000	0.000			
LIGHTING	L	0.000			0.000				0.000	1.000	0.000	0.000			
HVAC	H	0.000			0.000				0.000	0.950	0.000	0.000			
OTHER	O	0.000			0.000				0.000	0.600	0.000	0.000			
EXISTING	E	0.000			0.000				0.000	1.000	0.000	0.000			
TOTAL KVA		0.000			0.000				0.000	2.550	0.000	0.000		TOTAL ESTIMATE KVA	
VOLTS / PHASE		120			120				208	120	120	120		SYSTEM VOLTAGE	
AMPS / PHASE		0.000			0.000				480	480	0.000	0.000		AMPS	
NOTES: EC SHALL PROVIDE SURGE SUPPRESSION DEVICE (IF EM PNL PER NEC 700 & 701)															

EXISTING		MAIN: SIZE & TYPE: A				PANEL LOCATION: ROOM 101									
PNL COMPUTER LAB		BUS RATING: 208 A				FEEDER SIZE:									
		VOLTAGE: 120 / 208 V 3 Ø, 4 WIRE				FED FROM:									
		MOUNTING:				MIN RMS AMPS:									
CKT #	CIRCUIT DESCRIPTION	LOAD (KVA)			AMPS / POLES	CKT #	Q	W	CKT #	AMPS / POLES	LOAD (KVA)			CIRCUIT DESCRIPTION	CKT #
1	EX COMPUTERS NORTH WALL	A	B	C	1	1	E	2	20'1	A	B	C	EX COMP SOUTH EAST CORNER	2	
3	EX COMPUTERS NORTH WALL				3	3	E	4	20'1				EX COMP SOUTH EAST CORNER	4	
5	EX COMPUTERS NORTH WALL				5	5	E	6	20'1				EX COMP SOUTH EAST CORNER	6	
7	EX COMPUTERS NORTH WALL				7	7	E	8	20'1				EX COMP SOUTH EAST CORNER	8	
9	EX COMPUTERS NORTH WALL				9	9	E	10	20'1				EX COMP SOUTH EAST CORNER	10	
11	EX CIRC PUMP				11	11	E	12					EX COMP SOUTH WEST CORNER	12	
13					13	13	E	14					EX COMP SOUTH WEST CORNER	14	
15					15	15	E	16					EX COMP SOUTH WEST CORNER	16	
17					17	17	E	18					EX COMP SOUTH WEST CORNER	18	
19					19	19	E	20					EX COMP SOUTH WEST CORNER	20	
21					21	21	E	22						22	
23					23	23	E	24						24	
25	EX PANEL TVSS				25	25	E	26						26	
27	EX PANEL TVSS				27	27	E	28						28	
29	EX PANEL TVSS				29	29	E	30						30	
LOAD SUMMARY		KVA CONNECTED				KVA SUMMARY				TOTAL DEMAND					
RECEPTACLES	R	0.000			0.000				0.000	0.000	0.000	0.000			
LIGHTING	L	0.000			0.000				0.000	1.000	0.000	0.000			
HVAC	H	0.000			0.000				0.000	0.950	0.000	0.000			
OTHER	O	0.000			0.000				0.000	0.600	0.000	0.000			
EXISTING	E	0.000			0.000				0.000	1.000	0.000	0.000			
TOTAL KVA		0.000			0.000				0.000	2.550	0.000	0.000		TOTAL ESTIMATE KVA	
VOLTS / PHASE		120			120				208	120	120	120		SYSTEM VOLTAGE	
AMPS / PHASE		0.000			0.000				480	480	0.000	0.000		AMPS	
NOTES: EC SHALL PROVIDE SURGE SUPPRESSION DEVICE (IF EM PNL PER NEC 700 & 701)															

EXISTING		MAIN: SIZE & TYPE: 225 A				PANEL LOCATION: G115									
PNL LP-1Q		BUS RATING: 225 A				FEEDER SIZE:									
		VOLTAGE: 120 / 208 V 3 Ø, 4 WIRE				FED FROM:									
		MOUNTING:				MIN RMS AMPS:									
CKT #	CIRCUIT DESCRIPTION	LOAD (KVA)			AMPS / POLES	CKT #	Q	W	CKT #	AMPS / POLES	LOAD (KVA)			CIRCUIT DESCRIPTION	CKT #
1	NEW OFFICE 133 RECEPT	A	B	C	0.900	1	E	2	20'1	A	B	C	EX RECEPTACLES	2	
3	NEW OFFICE 134 RECEPT		0.720		20'1	3	E	4	20'1		0.540		EX RECEPTACLES	4	
5	NEW OFFICE 135 RECEPT		0.540	0.540	20'1	5	E	6	20'1		0.720	0.720	EX RECEPTACLES	6	
7	EX RECEPTACLES	0.540			20'1	7	E	8	20'1	0.540			EX RECEPTACLES	8	
9	EX TV		1.200		20'1	9	E	10	20'1		0.540		EX RECEPTACLES	10	
11	EX TV		1.200		20'1	11	E	12	20'1		0.720		EX RECEPTACLES	12	
13	EX GPS CLOCKS	0.500			20'1	13	E	14	20'1	1.200			EX TV	14	
15	EX TV		1.200		20'1	15	E	16	20'1		1.200		EX CEILING PROJECTOR	16	
17	EX TV		1.200		20'1	17	E	18	20'1		0.500		EX GPS CLOCKS	18	
19	EX TV	1.200			20'1	19	E	20	20'1	0.720			EX RECEPTACLES	20	
21	EX TV	1.200	1.200		20'1	21	E	22	20'1		0.540		EX RECEPTACLES	22	
23	EX RECEPTACLES		0.540	0.540	20'1	23	E	24	20'1		0.720		EX RECEPTACLES	24	
25	EX RECEPTACLES	0.540			20'1	25	E	26	20'1	0.720			EX RECEPTACLES	26	
27	EX RECEPTACLES		0.720		20'1	27	E	28	20'1		0.540		EX RECEPTACLES	28	
29	EX RECEPTACLES		0.720	0.720	20'1	29	E	30	20'1		1.200		EX TV	30	
31	EX CEILING PROJECTOR	1.200			20'1	31	E	32	20'1	1.200			EX CEILING PROJECTOR	32	
33	EX RECEPTACLES		0.360		20'1	33	E	34	20'1		1.200		EX TV	34	
35	EX GPS CLOCKS		0.500	0.500	20'1	35	E	36	20'1		1.200		EX TV	36	
37	EX RECEPTACLES	0.540			20'1	37	E	38	20'1	0.720			EX RECEPTACLES	38	
39	EX RECEPTACLES		0.720		20'1	39	E	40	20'1		0.540		EX RECEPTACLES	40	
41	EX CEILING PROJECTOR		1.200	1.200	20'1	41	E	42	20'1		1.200		EX CEILING PROJECTOR	42	
LOAD SUMMARY		KVA CONNECTED				KVA SUMMARY				TOTAL DEMAND					
RECEPTACLES	R	0.900	0.720	0.540	2.160				2.160						
LIGHTING	L	0.000	0.000	0.000	0.000				0.000	1.000	0.000	0.000			
HVAC	H	0.000	0.000	0.000	0.000				0.000	0.950	0.000	0.000			
OTHER	O	0.000	0.000	0.000	0.000				0.000	0.600	0.000	0.000			
EXISTING	E	10.160	10.650	11.620	32.430				32.430	1.000	0.000	6.540			
TOTAL KVA		11.060	11.400	12.160	34.620				34.620	2.550	0.000	6.540		TOTAL ESTIMATE KVA	
VOLTS / PHASE		120	120	120	208				208	120	120	120		SYSTEM VOLTAGE	
AMPS / PHASE		92.167	95.000	101.333	96.096				96.096	480	480	0.000		AMPS	
NOTES: EC SHALL PROVIDE SURGE SUPPRESSION DEVICE (IF EM PNL PER NEC 700 & 701)															

EXISTING	
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NORTH
 FIRST FLOOR PLAN - UNIT 'F' & 'G' - EMERGENCY LIGHTING POINT BY POINT
 1/8"=1'-0"

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
BATHROOM 1	+	7.8 fc	16.3 fc	2.3 fc	7.1:1	3.4:1
BATHROOM 2	+	8.1 fc	17.0 fc	2.4 fc	7.1:1	3.4:1
RECEPTION	+	18.3 fc	47.8 fc	4.6 fc	10.4:1	4.0:1

NO.	REVISION	DATE

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PROJECT TITLE
 RENOVATION FOR BCPS:
 BAY CITY EASTERN HIGH
 SCHOOL AT HANDY M.S.

BAY CITY, MICHIGAN
 SHEET TITLE
**FIRST FLOOR PLAN -
 UNIT 'F' & 'G' - REVISED
 EMERGENCY LIGHTING**

PROJECT NUMBER 2018040.16	SHEET NUMBER E4.01
PROJECT DATE FEBRUARY 1, 2024	
CHECKED BY JWF	