

# RENOVATE INTERIOR AND EXTERIOR KENNETT READINESS CENTER Kennett, Missouri

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OWNER: STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR  
  
MISSOURI NATIONAL GUARD  
OFFICE OF THE ADJUTANT GENERAL  
FACILITIES MANAGEMENT OFFICE

PROJECT  
MANAGEMENT: OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION

DESIGNER: Architect  
Dille Pollard, LLC  
Engineer  
Smith & Boucher, Inc.

PROJECT NUMBER: T2209-01

FACILITY NUMBER: 8136313002





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OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

MISSOURI ARMY  
NATIONAL GUARD  
FACILITIES DIVISION

RENOVATE INTERIOR  
AND EXTERIOR

KENNETT  
READINESS CENTER  
1450 NORTH BY-PASS  
KENNETT, MO 63857

PROJECT # T2209-01

FACILITY # 8136313002

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: January 30, 2023

CAD DWG FILE: G-002.DWG  
DRAWN BY: KU  
CHECKED BY: BD  
DESIGNED BY: KU

SHEET TITLE:  
SHEET INDEX  
SITE LOCATION PLANS  
LEGENDS AND  
ABBREVIATIONS

SHEET NUMBER:

**G-002**

2 OF 29 SHEETS

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## GENERAL NOTES

ARCHITECTURAL DWGS

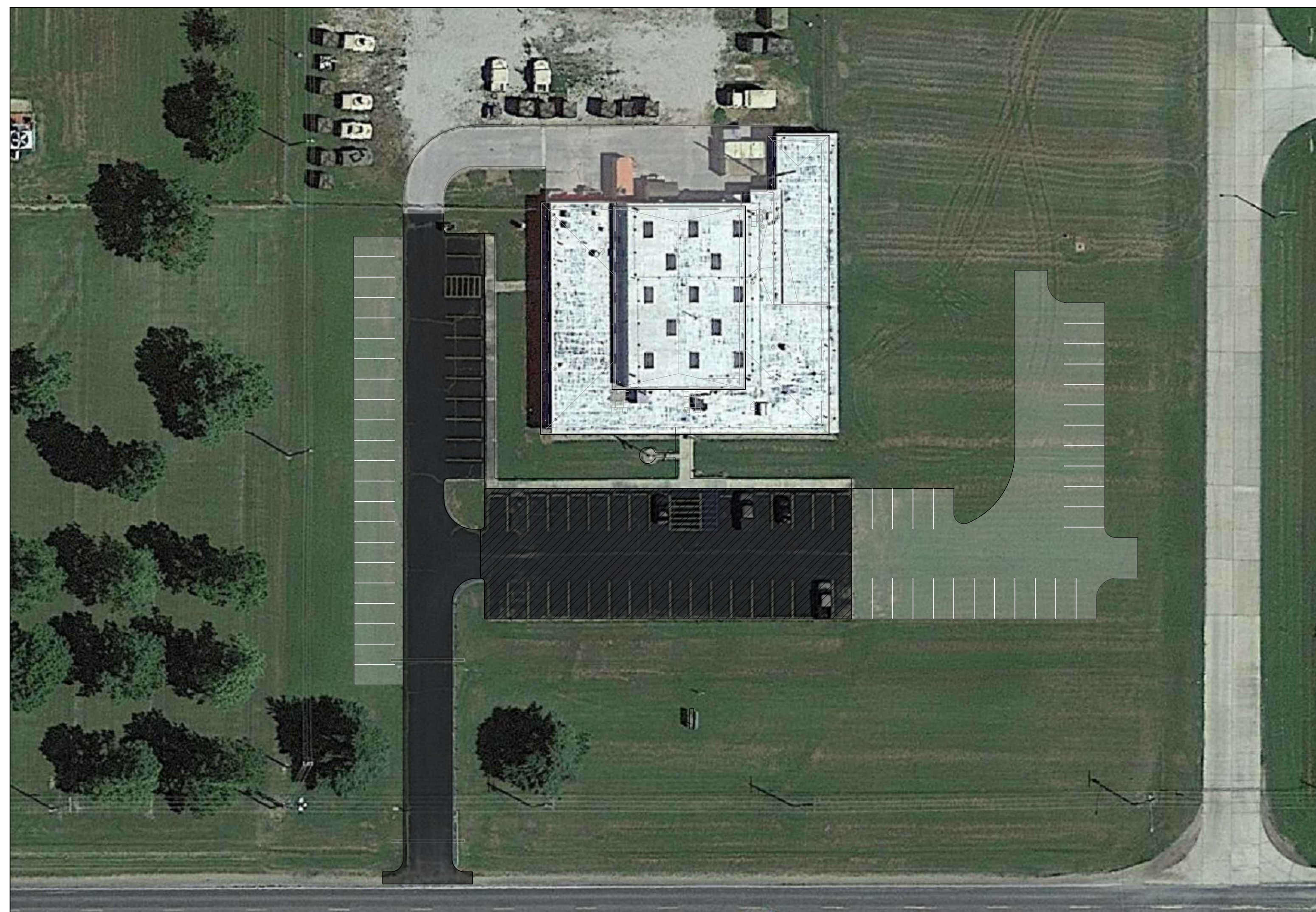
- INFORMATION SHOWN ON THE DOCUMENTS FOR THE EXISTING BUILDING HAS BEEN REPRODUCED FROM THE ORIGINAL DRAWINGS AND FIELD VISUAL SURVEYS. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION. NO FORENSIC INVESTIGATIONS HAVE BEEN MADE FOR CONSTRUCTION ABOVE CEILINGS, UNDER FLOORS OR WITHIN WALLS. THE CONTRACTORS ARE REQUIRED TO VISIT THE SITE AND VERIFY CONDITIONS FOR THE WORK PRIOR TO BIDDING.
- EXISTING FURNISHINGS, LOCKERS, BENCHES, ETC. ARE NOT SHOWN. BUT WILL BE MOVED BY THE OWNER PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH OWNER.
- THE SITE WILL BE FULLY OCCUPIED DURING THE HOURS OF 8:00 A.M. AND 5:00 P.M. COORDINATE ALL SITE WORK WITH THE OWNER PRIOR TO START OF CONSTRUCTION FOR AREAS THAT WILL BE OCCUPIED AND OWNER'S PREPARATION FOR THE WORK AREAS. PREPARE A RENOVATION PLANSCHEDULE FOR THE OWNER'S APPROVAL PRIOR TO THE WORK.
- THE CONTRACTOR WILL REPORT EXISTING DAMAGE TO MATERIALS THAT ARE TO REMAIN PRIOR TO THE WORK AND REPAIR OR REPLACE MATERIALS THAT ARE DAMAGED BY THE RENOVATION WORK.
- PROTECT & KEEP CLEAR ALL BUILDING ACCESSSES.
- ALL EXISTING SERVICES & UTILITIES SHALL BE MAINTAINED TO ADJACENT AREAS THAT ARE IN OPERATION & SERVED BY THESE UTILITIES & SERVICES. COORDINATE ALL DISRUPTIONS OR DISCONTINUATION OF UTILITIES & SERVICES WITH THE OWNER'S REPRESENTATIVE AT THE FACILITY.
- PROVIDE TEMPORARY DUST BARRIERS IN ALL AREAS OF WORK. COORDINATE EXACT LOCATIONS WITH OWNER.
- EXISTING ITEMS, STRUCTURE, EQUIPMENT, ETC. TO REMAIN IN PLACE SHALL BE PROTECTED FROM DIRT & DAMAGE DURING DEMOLITION & CONSTRUCTION.
- REMOVE ONLY WHAT IS NECESSARY TO COMPLETE DEMOLITION & ACCOMMODATE NEW CONSTRUCTION. PREPARE ALL DISTURBED AREAS FOR NEW CONSTRUCTION.
- ANY DAMAGE RESULTING FROM DEMOLITION TO BE REPAIRED TO ITS ORIGINAL STATE BY THE CONTRACTOR.
- GENERAL CONTRACTOR SHALL INSTALL SOLID WOOD BLOCKING AT WALLS AND PARTITIONS AS NECESSARY FOR INSTALLATION OF TOILET PARTITIONS, ACCESSORIES, LOCKERS, ETC. COORDINATE WITH OWNER.

### GENERAL NOTES - SITE PLAN:

- EXISTING CONDITIONS HAVE BEEN NOTED USING OWNER'S FACILITY DRAWINGS AND FIELD VISUAL SURVEYS. THE CONTRACTORS ARE REQUIRED TO VISIT THE SITE AND VERIFY CONDITIONS FOR THE WORK PRIOR TO BIDDING.
- COORDINATE ALL SITE WORK WITH OWNER PRIOR TO START OF CONSTRUCTION AND OWNER'S PREPARATION FOR THE WORK AREAS. PREPARE A RENOVATION PLAN / SCHEDULE FOR THE OWNER'S APPROVAL PRIOR TO THE WORK.
- MATERIAL STAGING AREA(S) ON SITE WILL BE DETERMINED BY THE OWNER AT PRE-BID OR PRE- CONSTRUCTION CONFERENCE.
- CONTRACTOR'S MOBILE OFFICE, STORAGE TRAILERS AND VEHICLE PARKING ON SITE WILL BE DETERMINED BY THE OWNER AT PRE-BID OR PRE-CONSTRUCTION CONFERENCE.
- ALL AGGREGATE AND CONCRETE SURFACES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION.
- CONTRACTOR TO COORDINATE ACCESS AND PARKING WITH OWNER PRIOR TO START OF WORK. REFER TO SHEET A-001 FOR EXTENT OF WORK.

### SYMBOL LEGEND (THIS SHEET ONLY)

	ALTERNATE BID NO. 3: AREA OF EXISTING ASPHALT PAVING TO BE REMOVED AND REPLACED WITH CONCRETE
	EXISTING PAVING - POTENTIAL UNIT COST WORK
	EXISTING PAVING - NO WORK



## 1 SITE PLAN REFERENCE

SCALE: 1" = 30'-0"

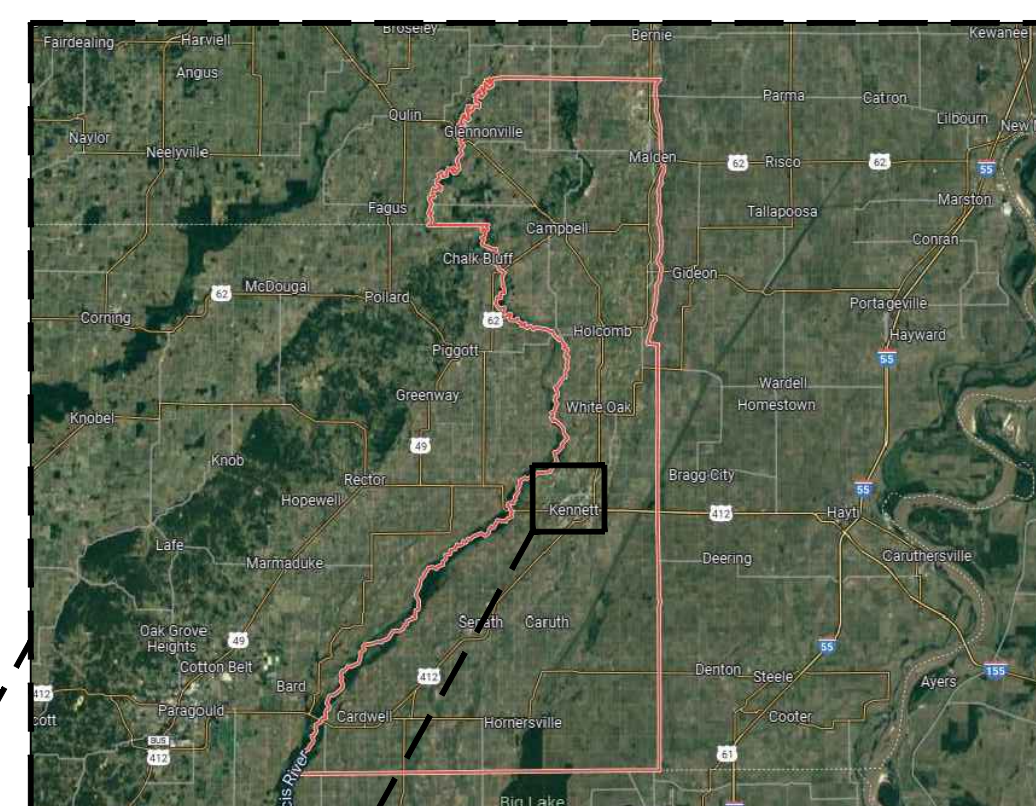


## SYMBOL LEGEND

	DOOR TAG - DOOR#
	ROOM TAG
	BUILDING SECTION - DETAIL# / SHEET#
	WALL SECTION - DETAIL#-SHEET#
	INTERIOR ELEVATION - DETAIL# / SHEET#
	ENLARGED DETAIL - DETAIL# / SHEET#
	ELEVATION TARGET
	PARTITION TYPE
	KEY NOTE
	EXISTING/NEW CONSTRUCTION
	PARTITION TO BE DEMOLISHED

## ABBREVIATIONS

A.D.A.	AMERICAN DISABILITIES ASSOCIATION
BLDG.	BUILDING
C.J.	CONTROL JOINT
CLG.	CEILING
C.M.U.	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONT.	CONTINUOUS
DR.	DOOR
E.W.C.	ELECTRIC WATER COOLER
E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM
E.J.	EXPANSION JOINT
EA.	EACH
EXT.	EXTERIOR
FIN.	FINISH
FLR.	FLOOR
G.B.	GRAB BAR
GYP.	GYPSONUM
H.M.	HOLLOW METAL
HT.	HEIGHT
INT.	INTERIOR
INSUL.	INSULATION
LVL.	LEVEL
MANF.	MANUFACTURER
M.B.C.	METAL BUILDING CONTRACTOR
MIN.	MINIMUM OR MINUTE
MTL.	METAL
O.C.	ON CENTER
PART.	PARTITION
PR.	PAIR
PRE-FIN.	PRE-FINISHED
REQ'D.	REQUIRED
SCH.	SCHEDULE
S.S.	STAINLESS STEEL
STL.	STEEL
SPEC.	SPECIFICATIONS
STRUCT.	STRUCTURAL
TLT.	TOILET
W.	WIDTH
W/	WITH
U.L.	UNDERWRITERS LABORATORIES
WNDW.	WINDOW
V.C.T.	VINYL COMPOSITION TILE

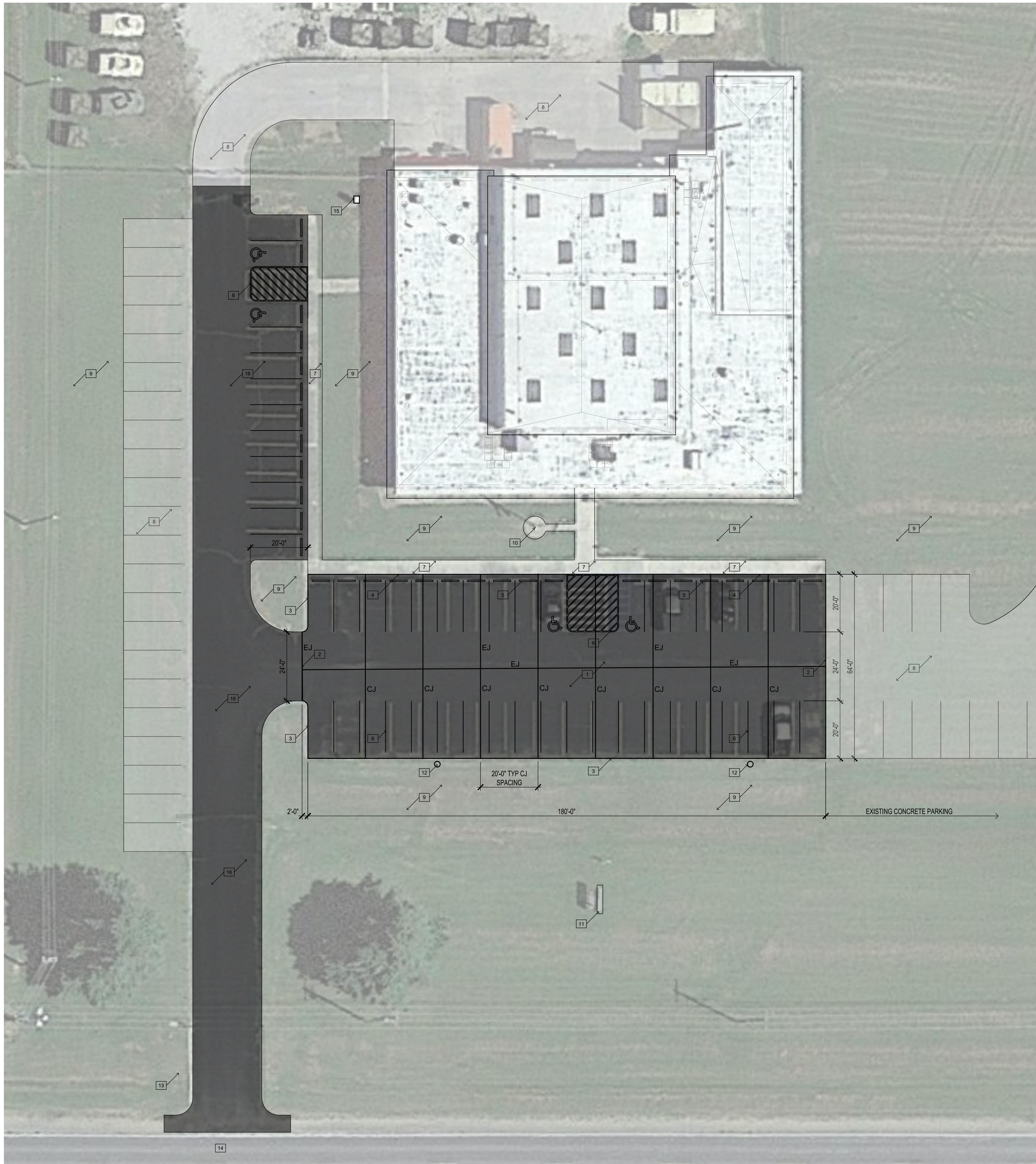


## 2 LOCATION MAPS

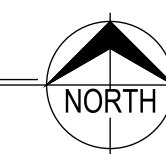
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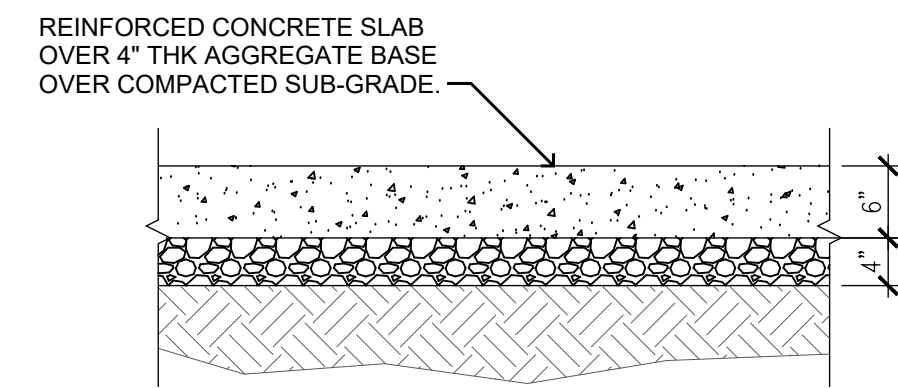




**1 SITE PLAN**  
SCALE: 1" = 20'-0"

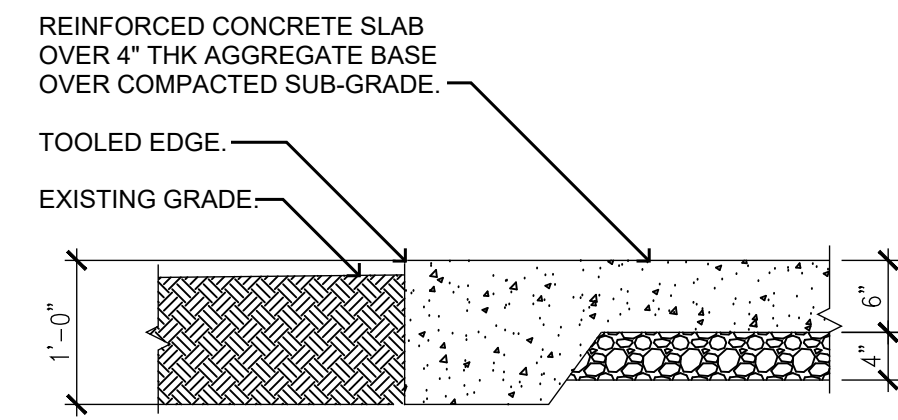


**2 TYPICAL PAVING DETAIL**  
SCALE: 3/4" = 1'-0"

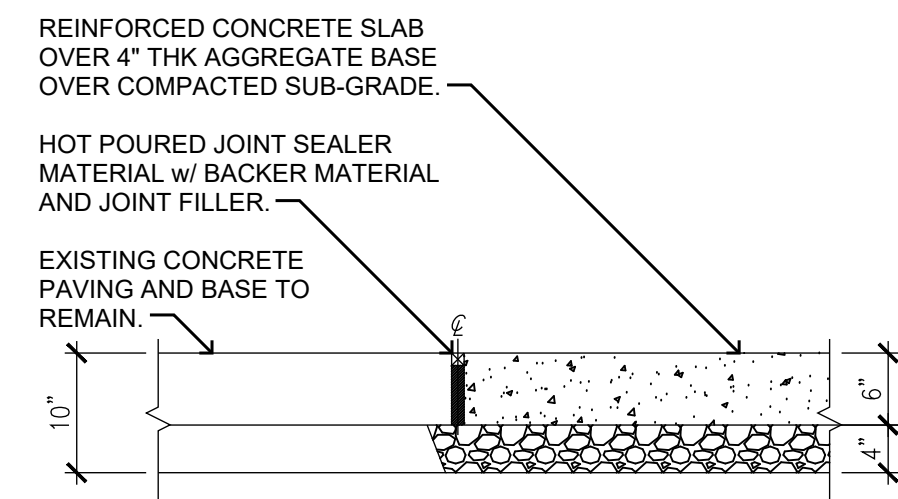


\*PROVIDE SAWCUT JOINTS AT 12'-0" CENTERS EACH WAY - WHERE POSSIBLE, ALIGN WITH EXISTING CONCRETE JOINTS.

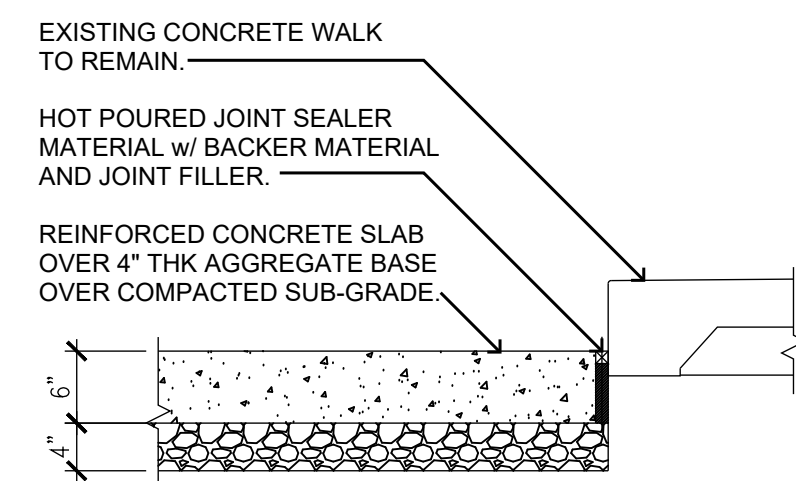
**3 TYPICAL PAVING DETAIL @ XGRADE**  
SCALE: 3/4" = 1'-0"



**4 TYPICAL PAVING DETAIL @ XPAVING**  
SCALE: 3/4" = 1'-0"



**5 TYPICAL PAVING DETAIL @ XWALK**  
SCALE: 3/4" = 1'-0"



GENERAL SITE PLAN NOTES:

- A. ALL CIVIL WORK SHOWN ON THIS SHEET SHALL BE BY ALTERNATE BID NO. 3. ALSO REFERENCE UNIT PRICES FOR ADDITIONAL CONCRETE PAVING. ALSO REFERENCE ELECTRICAL DRAWINGS.
- B. ALL GRASSES, AGGREGATE AND CONCRETE SURFACES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- C. BURY ELEVATIONS OF UNDERGROUND PIPING AND CONDUITS ARE UNKNOWN. UTILITIES CUT OR DAMAGED DURING CONSTRUCTION ARE TO BE RESTORED TO THEIR ORIGINAL CONDITION.
- D. HATCHED AREA INDICATES EXTENTS OF EXISTING PAVING TO BE TOTALLY REMOVED BY CONTRACTOR UNLESS OTHERWISE NOTED. DEMO'D ITEMS TO BE REMOVED AND DISPOSED OF IN A SAFE AND LAWFUL MANNER AS SPECIFIED.
- E. ALSO REFERENCE SHEET G-002 FOR GENERAL NOTES APPLICABLE FOR THE FULL PROJECT.

KEYED NOTES - SITE PLAN: [X]

- 1. BY ALTERNATE BID NO. 3: REMOVE EXISTING ASPHALT PAVING AND REPLACE WITH NEW REINFORCED 4000 PSI CONCRETE PAVING. NEW RIGID CONCRETE PAVING CONSTRUCTION TO BE: 6" THK WITH 6X6XW2.0XW2.0 WWF AT MID-DEPTH OVER 4" COMPACTED AGGREGATE BASE ON COMPACTED SUB-GRADE. REFERENCE DETAIL 2, THIS SHEET. TAKE CARE NOT TO DAMAGE EXISTING PAVING TO REMAIN. IF DAMAGED REPAIR TO RESTORE TO ORIGINAL CONDITION.
- 2. BY ALTERNATE BID NO. 3: PROVIDE NEW EXPANSION JOINT FILLER AND SEALANT BETWEEN NEW CONCRETE PAVING AND EXISTING CONCRETE PAVING. SAWCUT AS REQUIRED TO PROVIDE STRAIGHT EDGE JOINT BETWEEN EXISTING AND NEW. REFERENCE DETAIL 4, THIS SHEET.
- 3. BY ALTERNATE BID NO. 3: 12" THICKENED EDGE WHERE NEW CONCRETE MEETS EXISTING GRADE. REF: DETAIL 3, THIS SHEET.
- 4. BY ALTERNATE BID NO. 3: PROVIDE NEW EXPANSION JOINT FILLER AND SEALANT BETWEEN NEW CONCRETE PAVING AND EXISTING CONCRETE WALK. REFERENCE DETAIL 5, THIS SHEET.
- 5. BY ALTERNATE BID NO. 3: EXISTING WHEELSTOPS TO BE TEMPORARILY REMOVED DURING PAVING AND RE-INSTALLED WHERE INDICATED.
- 6. BY ALTERNATE BID NO. 3: NEW 4" WIDE PARKING STRIPING AS SHOWN.
- 7. EXISTING CONCRETE SIDEWALKS AND ACCESSIBLE ACCESS TO REMAIN.
- 8. EXISTING (RECENT) CONCRETE PAVING AND STRIPING TO REMAIN.
- 9. EXISTING GRASS AREA TO REMAIN.
- 10. EXISTING FLAGPOLE TO REMAIN.
- 11. EXISTING BUILDING SIGN TO REMAIN.
- 12. NEW PARKING LIGHTING TO MATCH EXISTING. REFERENCE MECHANICAL / ELECTRICAL DRAWINGS.
- 13. EXISTING STORMWATER PIPING TO REMAIN.
- 14. EXISTING ROADWAY.
- 15. BY ALTERNATE BID NO. 2: EXISTING TRANSFER SWITCH. REFERENCE ELECTRICAL DRAWINGS FOR NEW TRANSFER SWITCH.
- 16. BY UNIT PRICE NO. 1: PER SQUARE FOOT - REMOVE EXISTING ASPHALT PAVING AND REPLACE WITH NEW REINFORCED 4000 PSI CONCRETE PAVING. NEW RIGID CONCRETE PAVING CONSTRUCTION TO BE: 6" THK WITH 6X6XW2.0XW2.0 WWF AT MID-DEPTH OVER 4" COMPACTED AGGREGATE BASE ON COMPACTED SUB-GRADE. REFERENCE DETAIL 2, THIS SHEET. TAKE CARE NOT TO DAMAGE EXISTING PAVING TO REMAIN. IF DAMAGED REPAIR TO RESTORE TO ORIGINAL CONDITION.

SYMBOL LEGEND (THIS SHEET ONLY)

	ALTERNATE BID NO. 3: AREA OF EXISTING ASPHALT PAVING TO BE REMOVED AND REPLACED WITH CONCRETE
	EXISTING PAVING - POTENTIAL UNIT COST WORK
	EXISTING PAVING - NO WORK
	FINISH ELEVATION - NEW
	ELEVATION - EXISTING
F.F.E.	FINISH FLOOR ELEVATION
BOC	BOTTOM OF CURB
TOC	TOP OF CURB
CJ	CONTROL JOINT
EJ	EXPANSION JOINT
DS	DOWNSPOUT LOCATION



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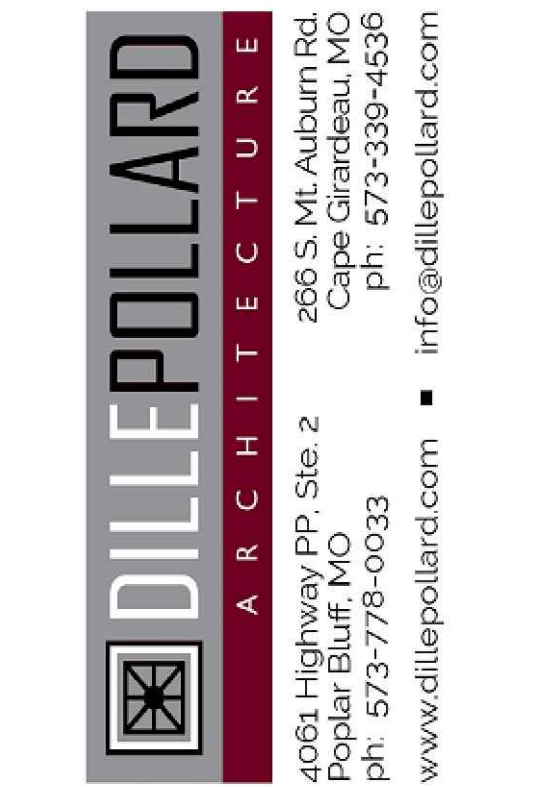
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REVISION:	_____
DATE:	_____
ISSUE DATE:	January 30, 2023

CAD DWG FILE: A-001.DWG  
DRAWN BY: KU  
CHECKED BY: BD  
DESIGNED BY: KU

SHEET TITLE:  
**SITE PLAN AND  
SITE DETAILS  
ALTERNATE NO. 3**

SHEET NUMBER:  
**A-001**





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CAD DWG FILE: A-100.DWG  
DRAWN BY: KU  
CHECKED BY: BD  
DESIGNED BY: KU

SHEET TITLE:

DEMOLITION PLAN  
- FLOOR PLAN

SHEET NUMBER:

A-100

4 OF 29 SHEETS

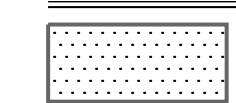

GENERAL DEMOLITION PLAN NOTES:

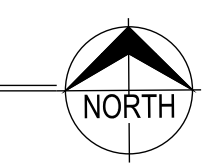
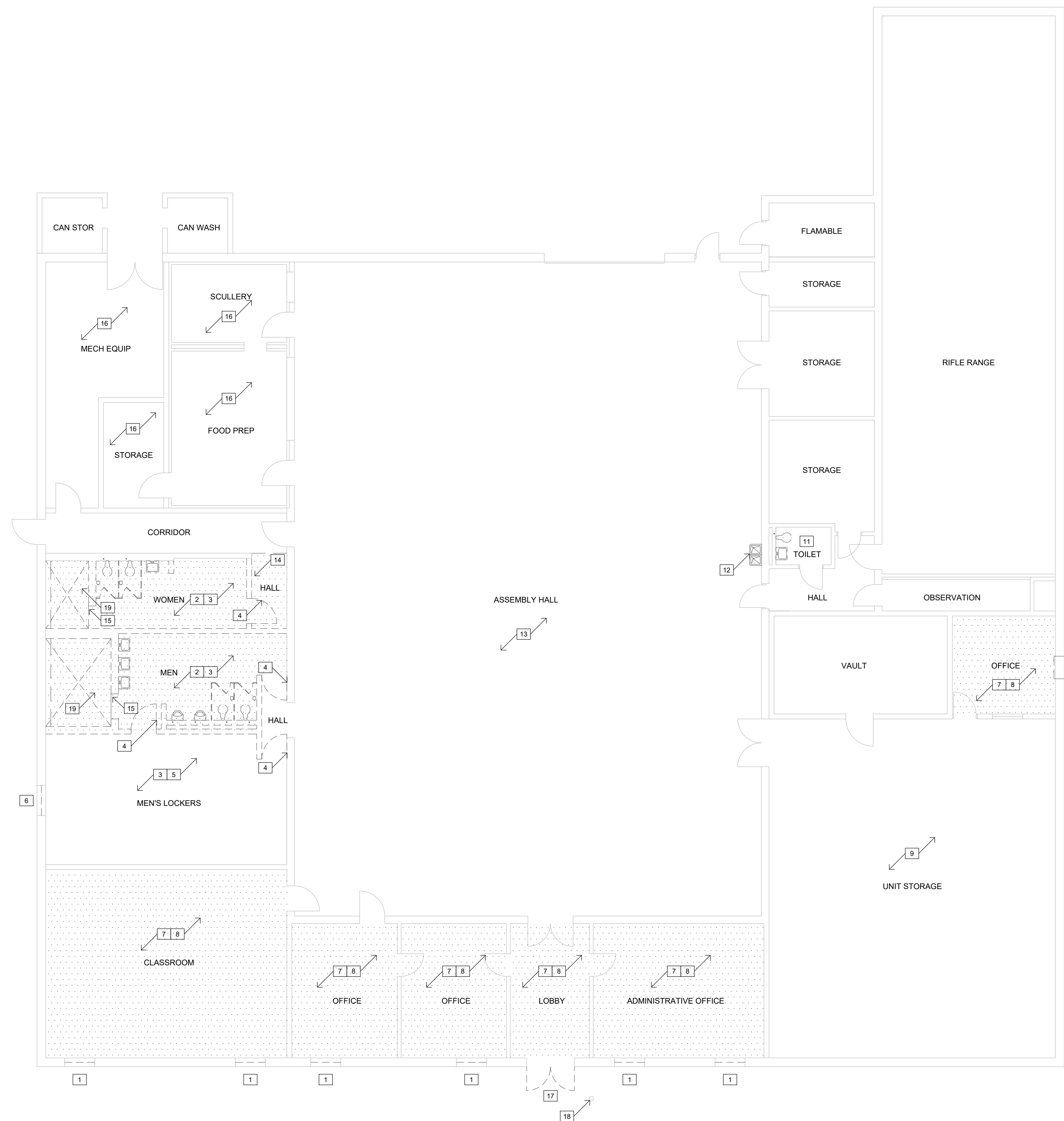
- A. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE TOTALLY REMOVED BY CONTRACTOR UNLESS OTHERWISE NOTED. DEMOD ITEMS TO BE REMOVED AND DISPOSED OF IN A SAFE AND LAWFUL MANNER AS SPECIFIED.
- B. EXISTING SURFACES TO RECEIVE NEW FINISHES SHALL BE PATCHED AND PREPPED AS REQUIRED TO RECEIVE NEWLY SPECIFIED SURFACE TREATMENT / FINISHES PER MANUFACTURER'S RECOMMENDATIONS.
- C. LEVEL ALL FLOOR SLABS AS REQUIRED WHERE SLAB DEPRESSIONS HAVE BEEN LEFT BY DEMOLITION OR NECESSARY FOR NEW FLOORING.
- D. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED TO SUPPORT EXISTING STRUCTURE PRIOR TO ANY DEMOLITION OF LOAD BEARING CONSTRUCTION.
- E. REFERENCE ALSO DEMOLITION REFLECTED CEILING PLAN AND ROOF PLAN.
- F. REFERENCE MEP DRAWINGS FOR EXTENTS OF ADDITIONAL DEMOLITION.

KEYED NOTES (DEMOLITION):

1. EXISTING WINDOWS TO REMAIN IN BASE BID. TAKE CARE NOT TO DAMAGE. ALSO REFERENCE ALTERNATE NO. 2 FOR WINDOW REMOVAL AND REPLACEMENT.
2. EXISTING MOSAIC TILE FLOORING AND INTERIOR CMU WALLS WHERE INDICATED TO BE TOTALLY REMOVED FOR NEW WORK. CLEAN AND PREP CONCRETE FLOOR SLAB FOR NEW INFILL AND FLOORING. ALSO REFERENCE MEP FOR EXTENT OF REMOVAL OF PLUMBING FIXTURES AND DEVICES.
3. EXISTING CONCRETE SLAB DEMOLITION - CONTRACTOR'S OPTIONS:
  - 3.1. OPTION 1: TRENCHING - SAWCUT AND DEMO AS REQUIRED FOR NEW WORK AND UNDERFLOOR/SLAB PIPING. REF: MEP DRAWINGS.
  - 3.2. OPTION 2: FULL SLAB - SAWCUT AT ROOM PERIMETER AND DEMO FOR NEW WORK AND UNDERGLOOR/SLAB PIPING. REF: MEP DRAWINGS.
  - 3.3. NOTE: IN EITHER OPTION, CONTRACTOR TO TAKE CARE NOT TO UNDERMINE BUILDING FOOTINGS.
4. EXISTING DOORS AND FRAMES TO BE TOTALLY REMOVED.
5. EXISTING EXPOSED STRUCTURE TO REMAIN. ALSO REFERENCE MEP DWGS.
6. EXISTING WINDOW UNIT TO BE TOTALLY REMOVED. REFERENCE NEW WORK FOR EXISTING MASONRY OPENING TO BE INFILLED TO MATCH EXISTING.
7. EXISTING FINISH FLOORING TO BE TOTALLY REMOVED. EXISTING CONCRETE SLAB TO BE CLEANED AND PREPPED FOR NEW WORK.
8. EXISTING WALLS TO REMAIN. INSPECT AND REPAIR AS REQUIRED. PREP FOR NEW PAINT FINISH.
9. EXISTING UNIT STORAGE TO REMAIN. PREP AREA FOR INSTALLATION OF NEW FULL HEIGHT WIRE PARTITION PANELS. REF: NEW WORK.
10. REFERENCE MEP DRAWINGS FOR EXISTING THRU-WALL UNIT TO BE TOTALLY REMOVED. REFERENCE NEW WORK FOR EXISTING MASONRY OPENING TO BE INFILLED TO MATCH EXISTING.
11. EXISTING MOSAIC TILE AND WALL TILE TO REMAIN AND BE CLEANED. TOILET ACCESSORIES TO BE COMPLETELY REMOVED. REFERENCE MEP DRAWINGS FOR PLUMBING FIXTURES.
12. EXISTING ELECTRIC WATER COOLER TO BE REMOVED. REFERENCE MEP DRAWINGS.
13. REFERENCE ELECTRICAL DRAWINGS FOR EXTENT OF DEMOLITION WORK THIS AREA.
14. FINISH FLOORING TO BE REMOVED TO EXTENTS SHOWN. FLOORS AND WALLS TO BE PREPPED FOR NEW WORK. ALSO REFERENCE MEP DRAWINGS.
15. EXISTING CURB AT SHOWER AREA TO BE REMOVED.
16. REFERENCE MEP DRAWINGS FOR EXTENT OF DEMOLITION OF EXISTING EQUIPMENT.
17. EXISTING STOREFRONT TO REMAIN IN BASE BID. TAKE CARE NOT TO DAMAGE. REFERENCE ALTERNATE NO. 1 FOR REMOVAL OF EXISTING ALUMINUM STOREFRONT AND PREP FOR NEW OPENING AND HARDWARE.
18. REFERENCE MEP FOR EXISTING ADA ACCESS TO BE REPLACED. MOUNTING POLE TO REMAIN.
19. TOP OF EXISTING SLAB AT SHOWER AREA IS RECESSED TO A DEPTH OF 3 1/2" BELOW FINISH FLOOR ELEVATION.

SYMBOL LEGEND (THIS SHEET ONLY)

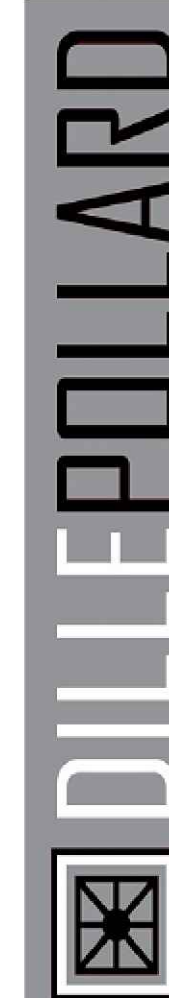
-  AREA OF EXISTING FLOOR FINISH TO BE REMOVED AND REPLACED.
-  AREA RECESSED CONCRETE SLAB







*Kristen Rae Urrhan*  
ARCHITECT  
January 30, 2023



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CAD DWG FILE: A-101.DWG  
DRAWN BY: KU  
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DESIGNED BY: KU

SHEET TITLE:

DEMOLITION PLAN  
- REFLECTED CEILING

SHEET NUMBER:

**A-101**

5 OF 29 SHEETS

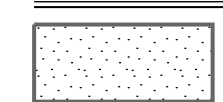
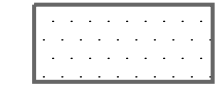

GENERAL DEMOLITION PLAN NOTES:

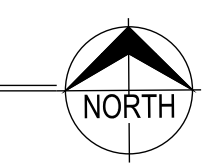
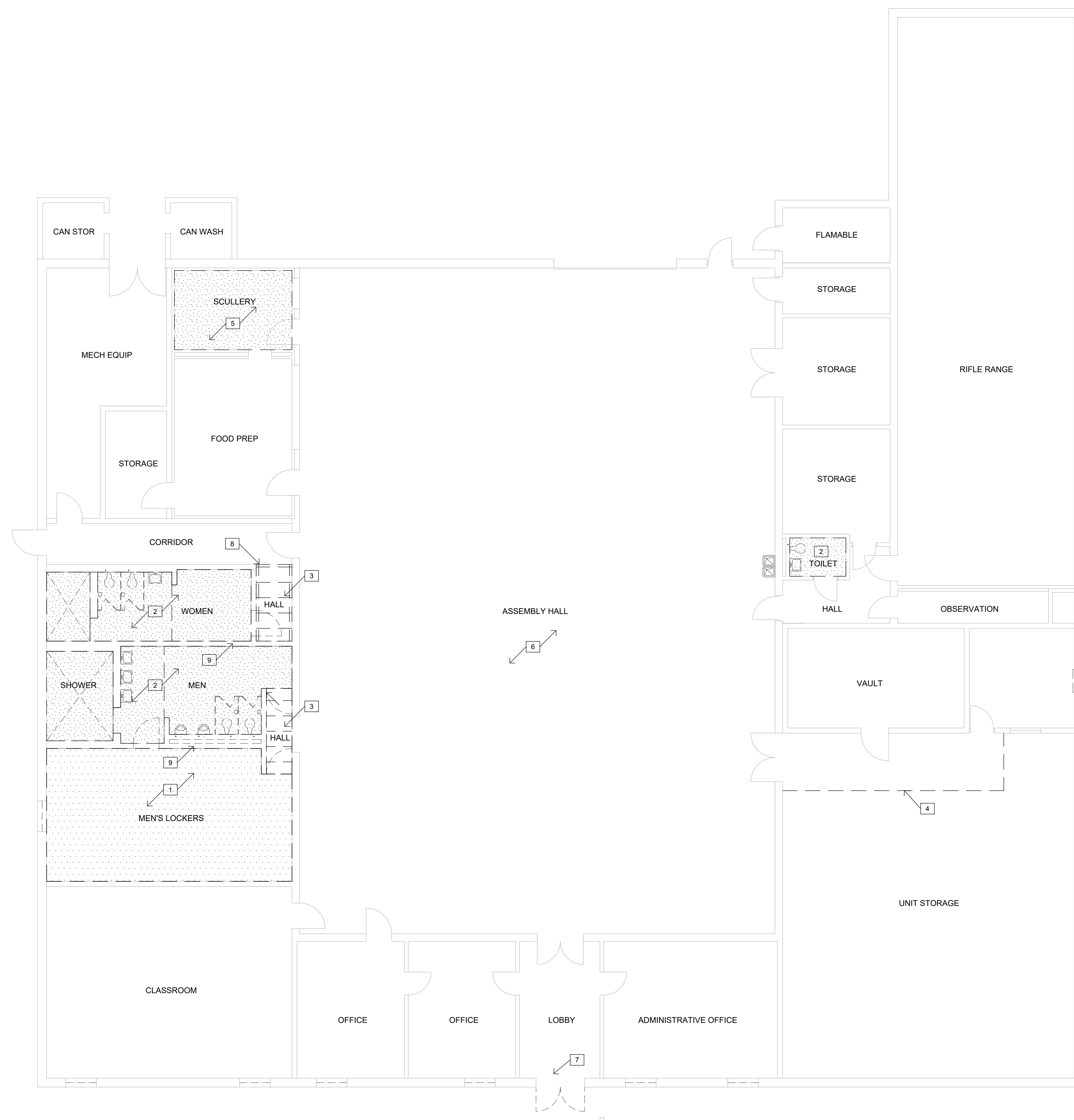
- A. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE TOTALLY REMOVED BY CONTRACTOR UNLESS OTHERWISE NOTED. DEMO'D ITEMS TO BE REMOVED AND DISPOSED OF IN A SAFE AND LAWFUL MANNER AS SPECIFIED.
- B. EXISTING SURFACES TO RECEIVE NEW FINISHES SHALL BE PATCHED AND PREPPED AS REQUIRED TO RECEIVE NEWLY SPECIFIED SURFACE TREATMENT / FINISHES PER MANUFACTURER'S RECOMMENDATIONS.
- C. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED TO SUPPORT EXISTING STRUCTURE PRIOR TO ANY DEMOLITION OF LOAD BEARING CONSTRUCTION.

KEYED NOTES (DEMOLITION):

- 1. EXISTING EXPOSED STRUCTURE TO REMAIN. LIGHTING AND DEVICES TO BE REMOVED. OWNER RESERVES THE FIRST RIGHT TO REFUSAL OF THE FIXTURES. ALSO REFERENCE MEP DWGS.
- 2. EXISTING GYPSUM PLASTER OVER METAL LATH CEILING ON STEEL C-CHANNEL SUSPENDED FRAME, LIGHTING FIXTURES AND DEVICES TO BE TOTALLY REMOVED. ALSO REFERENCE MEP DRAWINGS.
- 3. EXISTING SUSPENDED CEILING, GRID AND DEVICES TO BE TOTALLY REMOVED. REFERENCE MEP FOR TEMPORARY SUPPORT OF EXISTING LIGHT FIXTURES TO BE RE-USED.
- 4. EXISTING EXPOSED STRUCTURE TO REMAIN. MODIFY AS REQUIRED FOR INSTALLATION OF NEW PARTITION PANELS. REF: NEW WORK.
- 5. EXISTING GYPSUM PLASTER OVER METAL LATH CEILING TO REMAIN. REFERENCE MEP DRAWINGS FOR NEW CEILING DEVICES IN EXISTING CEILING. REPAIR AS REQUIRED. PREP FOR NEW PAINT FINISH.
- 6. EXISTING LIGHT FIXTURES TO BE TOTALLY REMOVED, THIS AREA. REFERENCE ELECTRICAL DRAWINGS.
- 7. ALTERNATE BID NO. 1: REMOVE AND MODIFY EXISTING SUSPENDED CEILING GRID SYSTEM AS NECESSARY TO ACCESS STOREFRONT FOR REMOVAL AND REPLACEMENT.
- 8. MODIFY EXISTING SUSPENDED CEILING GRID SYSTEM AS NECESSARY DUE TO WALL INFILL.
- 9. ROOF DECK IS WELDED TO CONTINUOUS EMBED PLATES IN THE TOP OF THE CMU WALLS TO BE DEMO'D. CONTRACTOR TO TAKE SPECIAL CAUTION DURING DEMOLITION TO ENSURE THE WALL REMOVAL DOES NOT DAMAGE THE ROOF DECK AND ROOF JOISTS. ANY DAMAGE AND SUBSEQUENT REPAIR (MATERIAL & LABOR) WILL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.

SYMBOL LEGEND (THIS SHEET ONLY)

-  AREA OF EXISTING GYPSUM PLASTER OVER METAL LATH CEILING
-  AREA EXPOSED STRUCTURE ABOVE
-  AREA OF SUSPENDED CEILING GRID AND TILE TO BE REMOVED







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KENNETT, MO 63857

PROJECT # T2209-01

FACILITY # 8136313002

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
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ISSUE DATE: January 30, 2023

CAD DWG FILE: A-100.DWG  
DRAWN BY: KU  
CHECKED BY: BD  
DESIGNED BY: KU

SHEET TITLE:

DEMOLITION PLAN  
- ROOF PLAN

SHEET NUMBER:

A-102

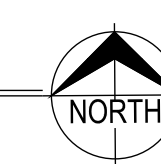
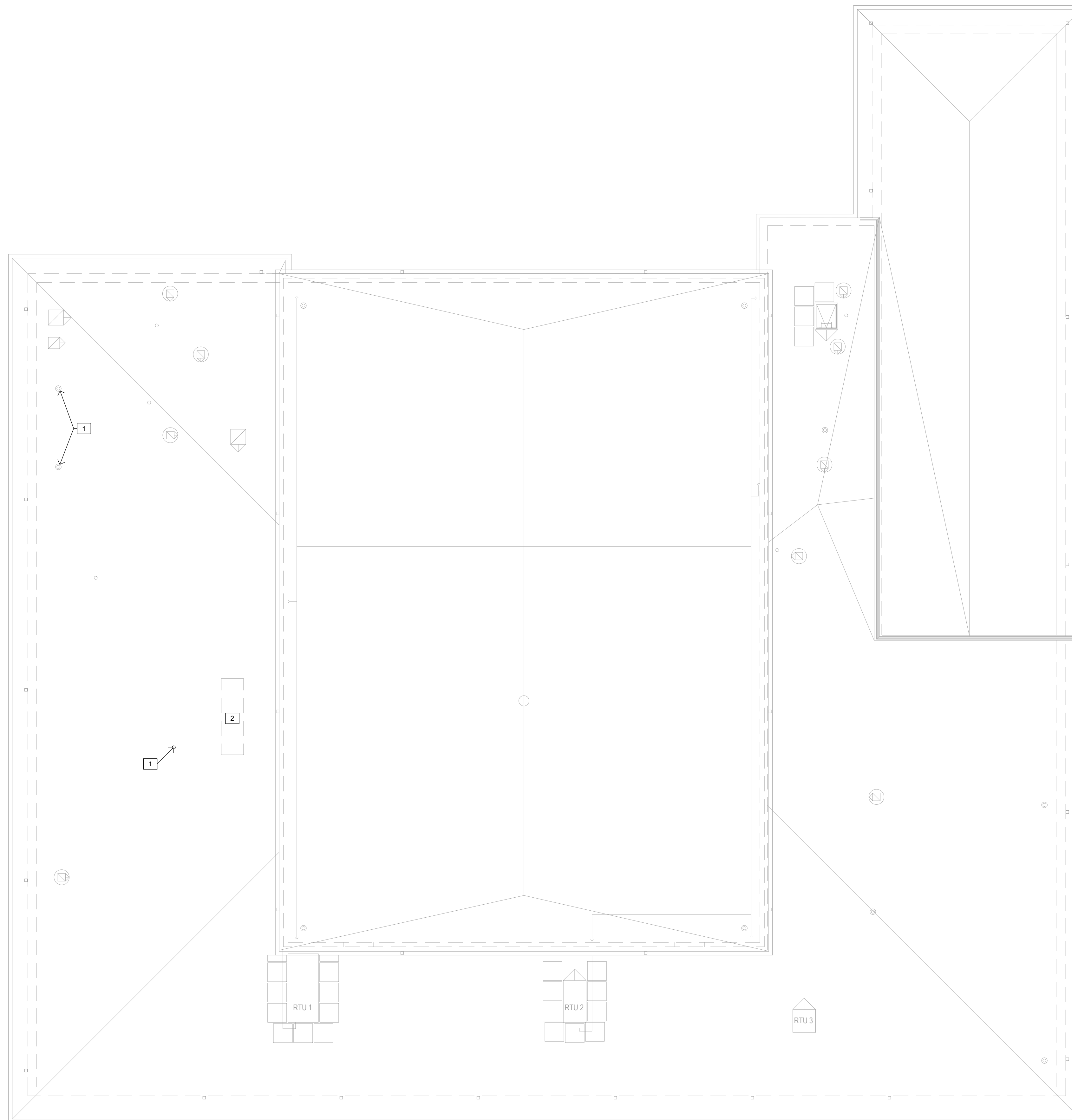
6 OF 29 SHEETS

GENERAL DEMOLITION NOTES - ROOF PLAN:

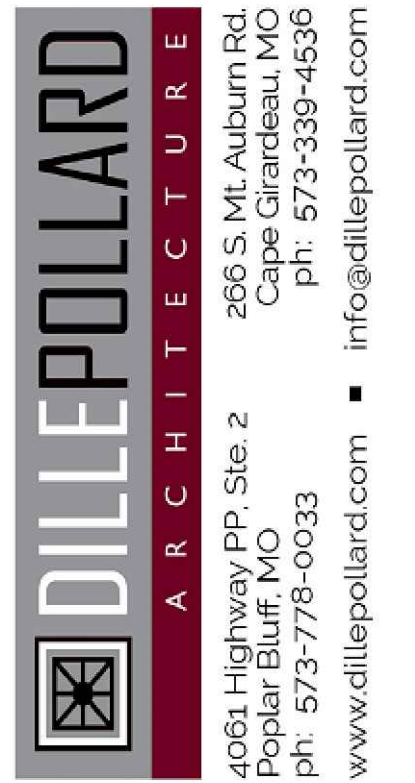
- A. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE TOTALLY REMOVED BY CONTRACTOR UNLESS OTHERWISE NOTED. DEMO'D ITEMS TO BE REMOVED AND DISPOSED OF IN A SAFE AND LAWFUL MANNER AS SPECIFIED.
- B. EXISTING SURFACES TO RECEIVE NEW FINISHES SHALL BE PATCHED AND PREPPED AS REQUIRED TO RECEIVE NEWLY SPECIFIED SURFACE TREATMENT / FINISHES PER MANUFACTURER'S RECOMMENDATIONS.
- C. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED TO SUPPORT EXISTING STRUCTURE PRIOR TO ANY DEMOLITION OF LOAD BEARING CONSTRUCTION.
- D. ROOF CONSTRUCTION AT AREA WHERE WORK IS TO OCCUR IS .060 mil TPO SINGLE PLY MEMBRANE (FIRESTONE) FULLY ADHERED TO 1/2" THICK HD COVERBOARD ADHERED TO 1/4" PER FOOT TAPERED POLYISO INSULATION (1/2" MIN) OVER 5" THICK BASE LAYER POLYISO RIGID INSULATION BOARD (R-30 ci) ON EXISTING METAL DECKING. ROOF IS CURRENTLY UNDER WARRANTY. CONTRACTOR SHALL ENSURE NEW WORK SHALL NOT VOID EXISTING ROOF WARRANTY AND BEAR ANY COSTS ASSOCIATED THEREIN. ROOFING WARRANTY IS FIRESTONE RED SHIELD - TPO - 20-YEAR - 72 MPH WITH START DATE 09/15/2022.

KEYED NOTES - DEMOLITION ROOF PLAN:

- 1. EXISTING VENT THRU ROOF TO REMAIN AND BE UTILIZED FOR NEW WORK. REFERENCE MEP DRAWINGS.
- 2. PROVIDE NEW PENETRATION IN EXISTING ROOF FOR NEW ROOFTOP EQUIPMENT. OPENING TO BE COORDINATED WITH EXISTING STRUCTURE. REFERENCE STRUCTURAL AND MEP DRAWINGS.







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CAD DWG FILE: A-100.DWG  
DRAWN BY: KU  
CHECKED BY: BD  
DESIGNED BY: KU

SHEET TITLE:

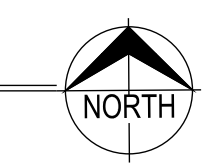
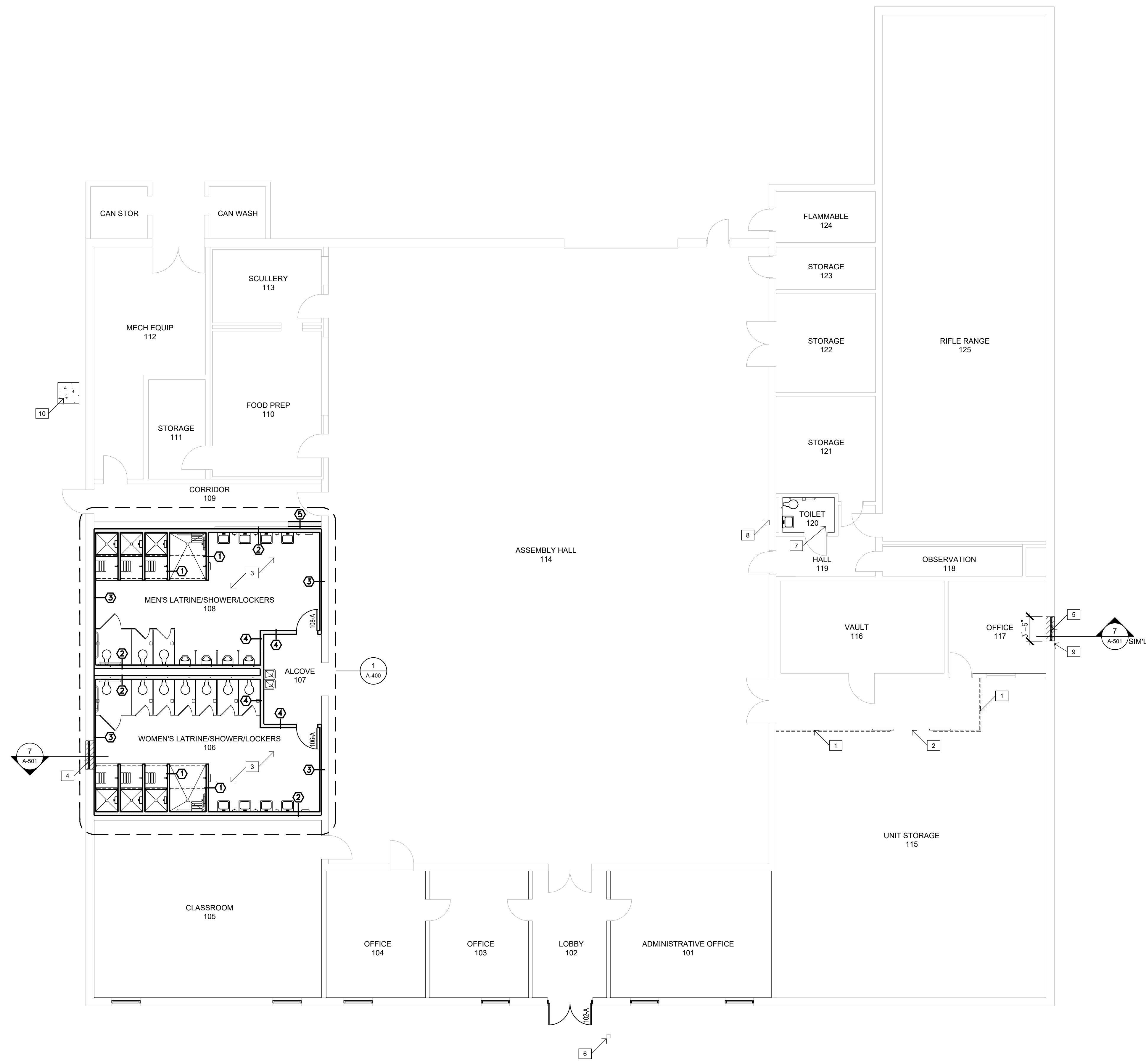
ALTERATIONS PLAN  
- FLOOR PLAN

SHEET NUMBER:  
**A-200**

REFER TO SHEET G-002 FOR GENERAL NOTES

KEYED NOTES - FLOOR PLAN: [X]

1. WIRE PARTITION PANELS, FLOOR TO WITHIN 2" OF BTM OF STRUCTURE ABOVE (APPROX. 12'-0" A.F.F.). SCRIBE PANELS AROUND EXISTING BAR JOISTS IN NORTHSOUTH DIRECTION, ALIGN WITH EXISTING STEEL JOISTS ALONG EASTWEST DIRECTION. REFERENCE PROJECT MANUAL.
2. WIRE PARTITION SLIDING GATE, 3'X7' (DBL) & PARTITION FRAME.
3. RENOVATED TOILET ROOMS. REFERENCE DETAIL PLAN, SHEET A-400 AND MEP DRAWINGS.
4. INFILL EXISTING WINDOW OPENING WITH MASONRY TO MATCH EXISTING CONSTRUCTION. REFERENCE DETAIL 7, SHEET A-501.
5. INFILL EXISTING PTAC UNIT OPENING WITH MASONRY TO MATCH EXISTING CONSTRUCTION. (APPROX. 3'-6" X 1'-4") REFERENCE SIMILAR DETAIL 7, SHEET A-501.
6. EXISTING ADA ACCESS POLE TO REMAIN. REFERENCE ELECTRICAL DRAWINGS. PREP AND PROVIDE PAINT FINISH.
7. TOILET ROOM REMODEL: REFERENCE FINISH SCHEDULE, SHEET A-500 AND MEP DRAWINGS.
8. REPAIR MASONRY WALL AS NECESSARY AFTER ELECTRIC WATER COOLER REMOVAL. CLEAN, PRIME, AND PAINT AT DISTURBED AREAS TO NEAREST BLOCK JOINT. REFERENCE MEP DRAWINGS.
9. REPAIR MASONRY AS NECESSARY AT FASTENER LOCATIONS AFTER PROTECTIVE STEEL CAGE REMOVAL.
10. 4-INCH THICK MIN. REINFORCED WITH W1.4XW1.4WWF AND #4 BARS CONTINUOUS AT 8" TURN DOWN AT PERIMETER. CONCRETE PAD FOR MECHANICAL EQUIPMENT BY GC. EXTEND EDGE OF PAD A MINIMUM OF 6-INCHES BEYOND THE EQUIPMENT FOOTPRINT. COORDINATE SIZE WITH MECH DWGS. PROVIDE 4-INCH MIN COMPACTED TYPE "B" BACKFILL BENEATH ENTIRE SLAB.







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CAD DWG FILE: A-101.DWG  
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SHEET TITLE:  
**ALTERATIONS PLAN  
- REFLECTED CEILING**

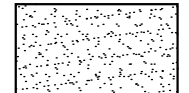
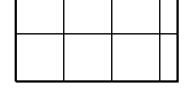


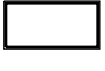

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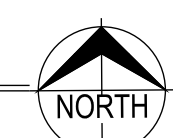
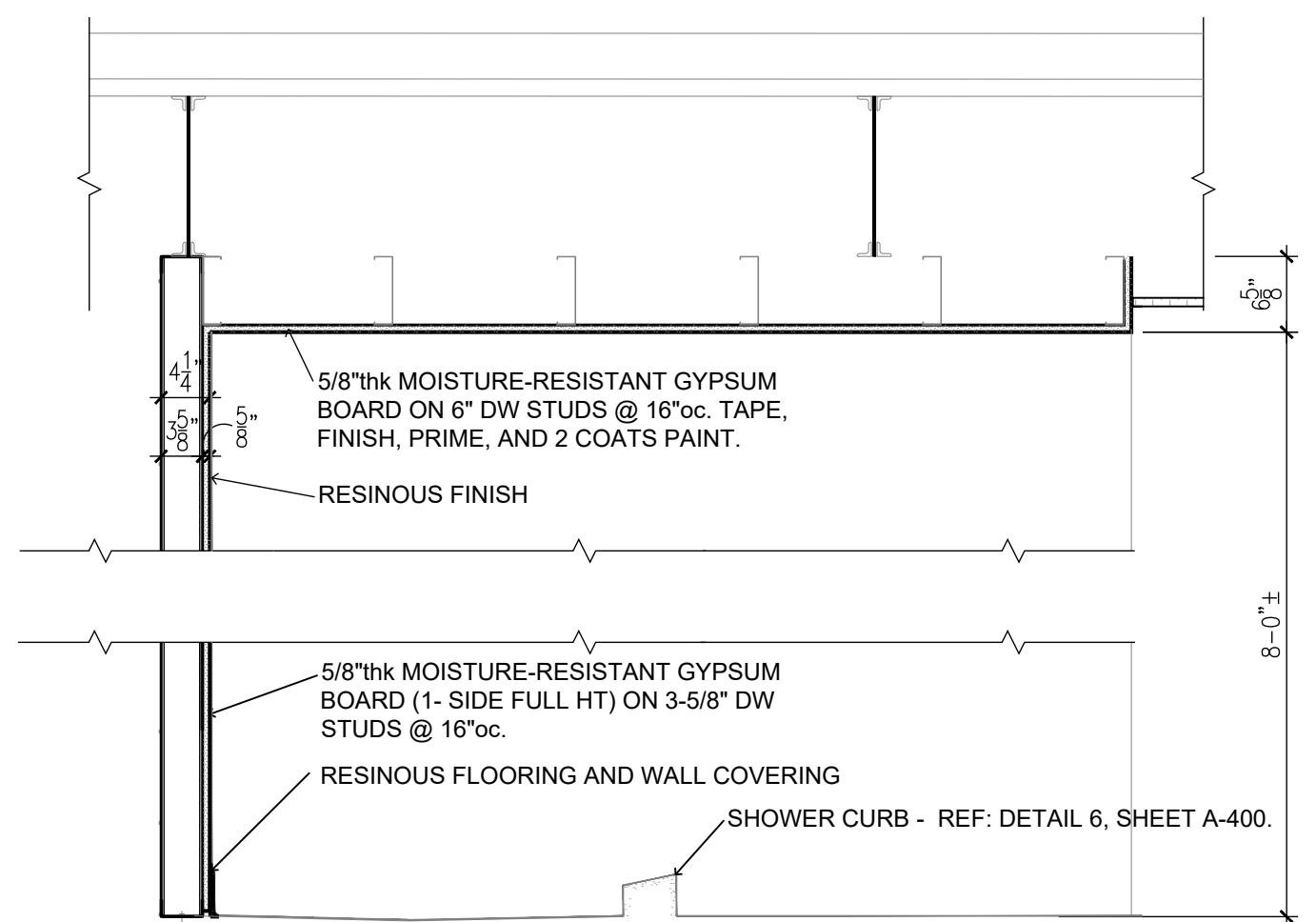
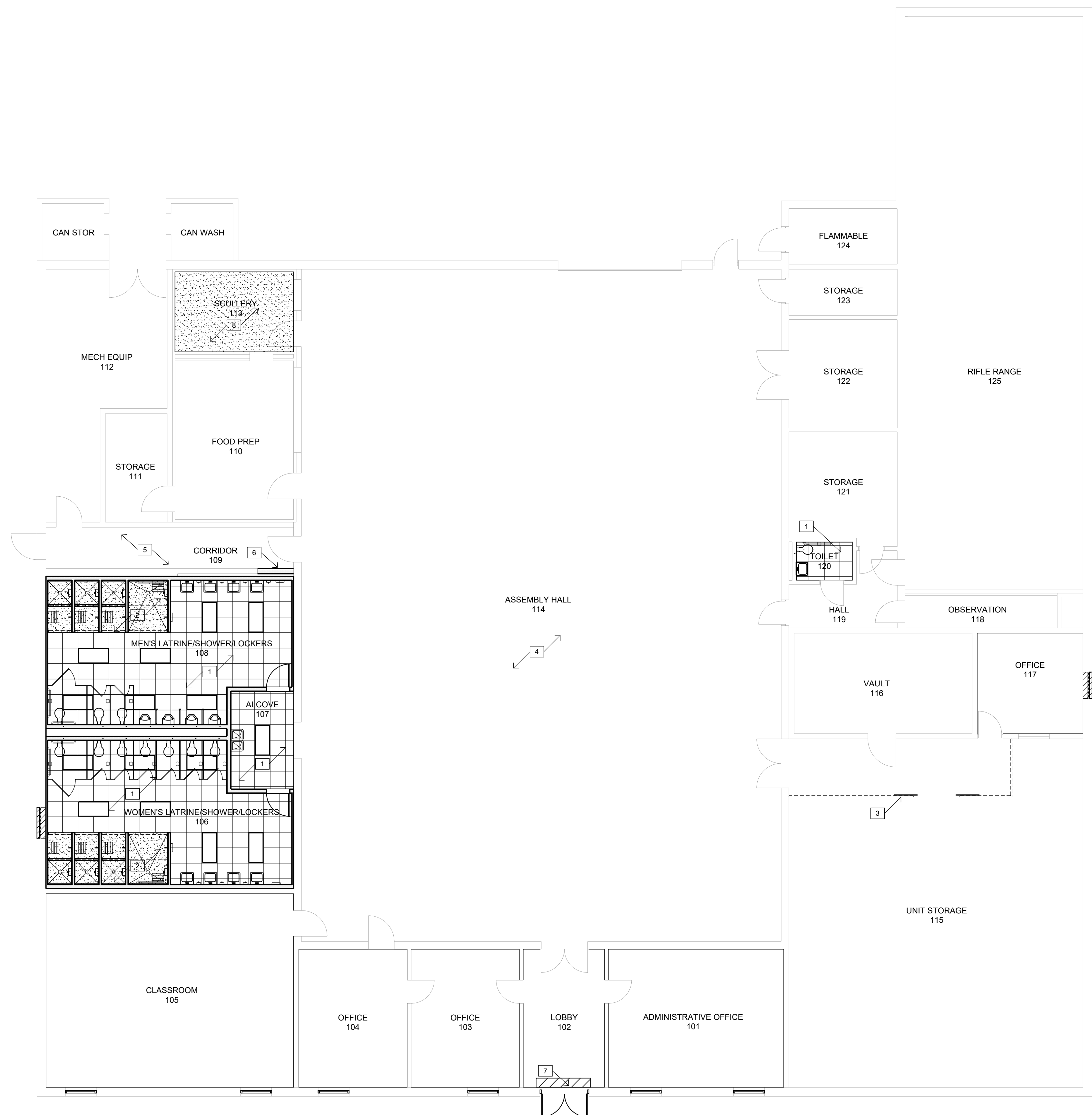
REFER TO SHEET G-002 FOR GENERAL NOTES

KEYED NOTES - REFLECTED CEILING PLAN: [X]

1. INSTALL NEW LAY-IN TILE AND GRID AS SPECIFIED. REFER TO FINISH SCHEDULE, SHEET A-500. REFERENCE MEP DRAWINGS FOR PLACEMENT OF REGISTERS, GRILLES, LIGHTING, ETC.
2. NEW GYPSUM BOARD OVER METAL FRAMED SOFFIT. REFERENCE DETAIL THIS SHEET.
3. EXISTING EXPOSED STRUCTURE TO REMAIN. NEW WIRE PARTITION TO EXTEND TO BTM OF EXISTING STRUCTURE. MODIFY TOP OF PARTITION TO WORK AROUND EXISTING STEEL JOISTS AND OTHER EXPOSED STRUCTURE.
4. EXISTING EXPOSED STRUCTURE TO REMAIN. REFERENCE ELECTRICAL DRAWINGS FOR NEW LIGHT FIXTURES.
5. EXISTING CEILING TILES AND GRID TO REMAIN. TILES TO BE REMOVED AND RE-INSTALLED AS REQUIRED FOR ACCESS TO ABOVE CEILING WORK. REFERENCE MEP DRAWINGS.
6. MODIFY EXISTING CEILING GRID AS NECESSARY AT NEW PARTITION LOCATION. INSTALL NEW WALL ANGLE ALONG NEW PARTITION AND MODIFY CROSS BEAMS. RE-SIZE AND INSTALL EXISTING TILE.
7. ALTERNATE BID NO. 1: TEMPORARILY REMOVE EXISTING LAY-IN TILE AND GRID AS NECESSARY TO ACCESS STOREFRONT SYSTEM FOR REPLACEMENT. RE-INSTALL EXISTING ONCE STOREFRONT IS IN PLACE.
8. EXISTING GYPSUM PLASTER LATH CEILING TO REMAIN. REFERENCE MEP DRAWINGS FOR NEW OPENING AS REQUIRED. REPAIR AND PAINT.

CEILING SYMBOLS LEGEND:

-  GYP. BOARD CEILING OVER METAL FRAMING
-  24"x 24" LAY-IN CEILING TILE AND GRID AS SPECIFIED. REFER TO ROOM FINISH SCHEDULE, SHEET A-400 FOR INSTALLATION HEIGHT
-  SUPPLY AIR REGISTER - REFER TO MECHANICAL SHEETS
-  RETURN AIR GRILLE - REFER TO MECHANICAL SHEETS.
-  LAY-IN TROFFER LIGHT FIXTURE - REFER TO ELECTRICAL SHEETS
-  RECESSED LIGHT FIXTURE - REFER TO ELECTRICAL SHEETS







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FACILITY # 8136313002

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ISSUE DATE: January 30, 2023

CAD DWG FILE: A-100.DWG  
DRAWN BY: KU  
CHECKED BY: BD  
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SHEET TITLE:

ALTERATIONS PLAN  
- ROOF PLAN

SHEET NUMBER:

**A-202**

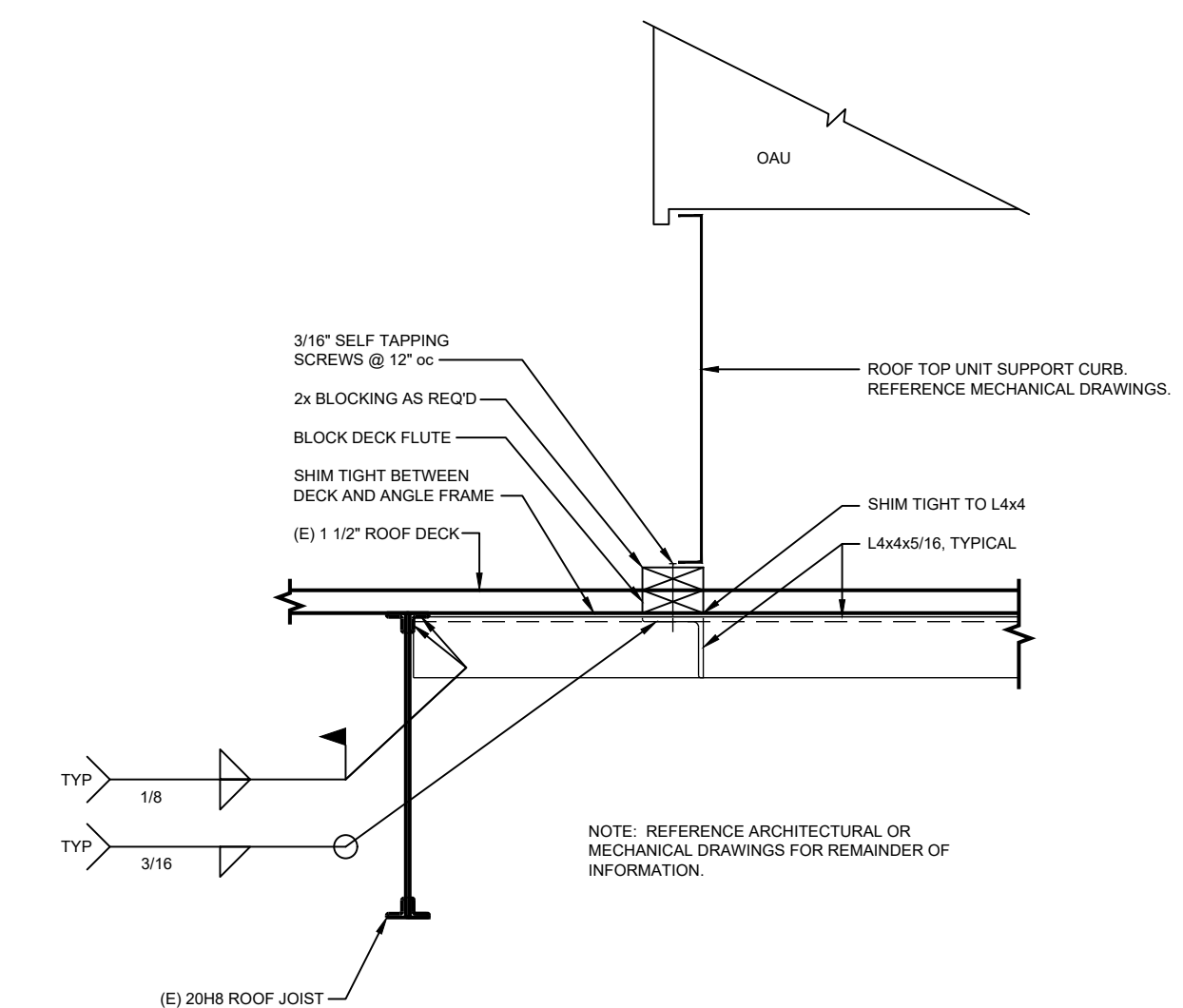
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GENERAL ROOF PLAN NOTES:

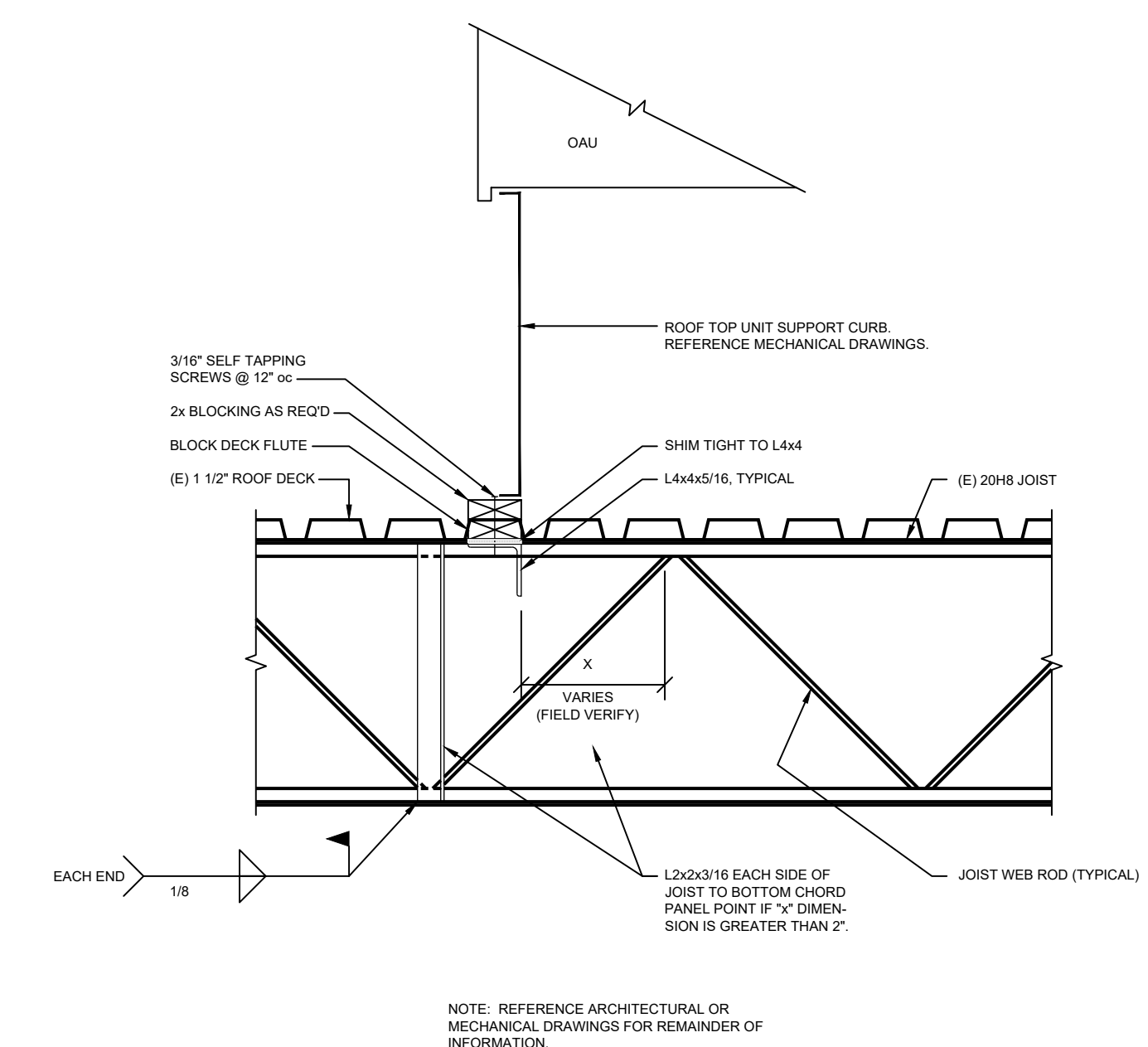
- A. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE TOTALLY REMOVED BY CONTRACTOR UNLESS OTHERWISE NOTED. DEMOD ITEMS TO BE REMOVED AND DISPOSED OF IN A SAFE AND LAWFUL MANNER PER AS SPECIFIED.
- B. EXISTING SURFACES TO RECEIVE NEW FINISHES SHALL BE PATCHED AND PREPPED AS REQUIRED TO RECEIVE NEWLY SPECIFIED SURFACE TREATMENT / FINISHES PER MANUFACTURER'S RECOMMENDATIONS.
- C. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED TO SUPPORT EXISTING STRUCTURE PRIOR TO ANY DEMOLITION OF LOAD BEARING CONSTRUCTION.
- D. ROOF CONSTRUCTION AT AREA WHERE WORK IS TO OCCUR IS .060 mil TPO SINGLE PLY MEMBRANE (FIRESTONE) FULLY ADHERED TO 1/2" THICK HD COVERBOARD ADHERED TO 1/4" PER FOOT TAPERED POLYISO INSULATION (1/2" MIN) OVER 5" THICK BASE LAYER POLYISO RIGID INSULATION BOARD (R-30 ci) ON EXISTING METAL DECKING. ROOF IS CURRENTLY UNDER WARRANTY. CONTRACTOR SHALL ENSURE NEW WORK SHALL NOT VOID EXISTING ROOF WARRANTY AND BEAR ANY COSTS ASSOCIATED THEREIN. ROOFING WARRANTY IS FIRESTONE RED SHIELD - TPO - 20-YEAR - 72 MPH WITH START DATE 09/15/2022.
- E. EXISTING STRUCTURE SHOWN PER OWNER'S EXISTING DOCUMENTS. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS PRIOR TO DEMOLITION AND NEW WORK, SPECIFICALLY NEW ROOF PENETRATION. NOTIFY ARCHITECT OF ANYTHING THAT DIFFERS FROM THE DOCUMENTS.

KEYED NOTES - ROOF PLAN: X

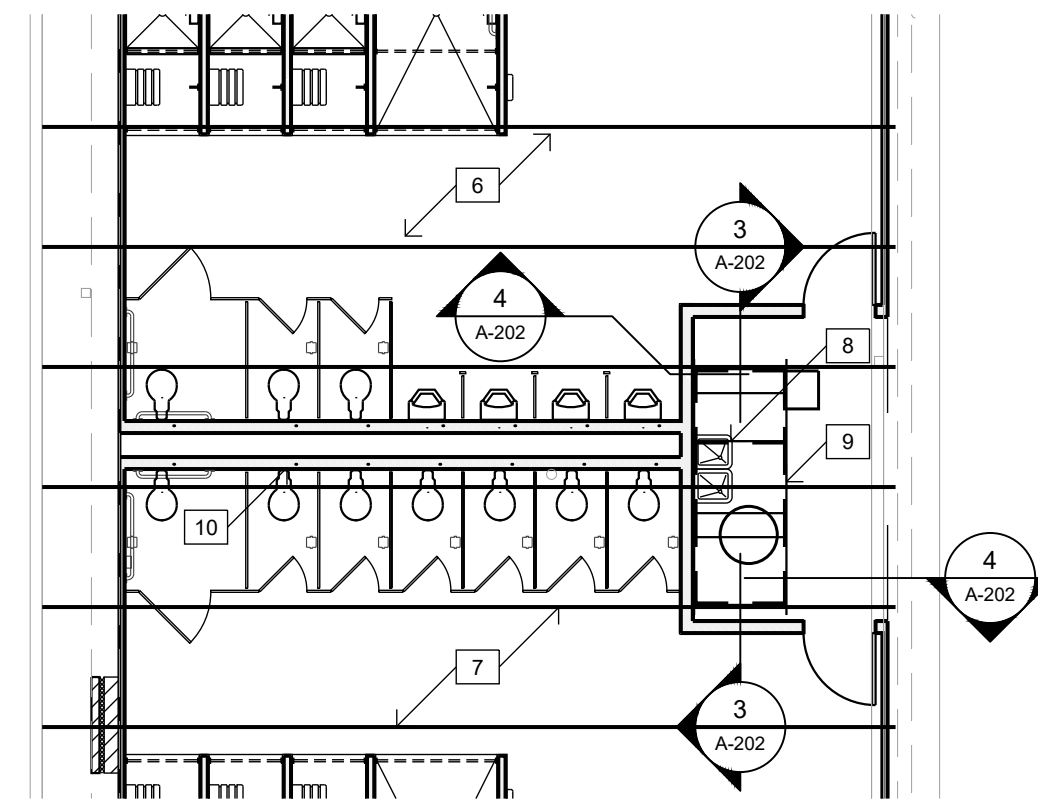
1. EXISTING VENT THRU ROOF TO REMAIN. CONTRACTOR SHALL UTILIZE EXISTING ROOF VENT OPENINGS FOR NEW PLUMBING VENTS. IN THE EVENT A NEW OPENING IS NECESSARY, COORDINATE OPENING WITH ROOFING CONTRACTOR FOR VENT BOOST INSTALLATION. REFERENCE MEP DRAWINGS.
2. NEW ROOFTOP EQUIPMENT. PROVIDE NEW ROOF PENETRATION IN EXISTING ROOF. PROVIDE SHEET METAL CLOSURE CONTINUOUS AT OPENING. COORDINATE EXACT LOCATION, OPENING AND SIZE WITH EXISTING STRUCTURE, MECHANICAL SHEETS AND RTU MANUFACTURER'S REQUIREMENTS. ALSO REFERENCE MEP DRAWINGS.
3. EXISTING ROOF TO REMAIN. TAKE CARE NOT TO DAMAGE DURING CONSTRUCTION ACTIVITIES.
4. INSTALL NEW TPO WALKWAY PADS (30"x30" MIN.) AT NEW EQUIPMENT. COORDINATE WITH EXISTING ROOF MANUFACTURER (FIRESTONE) FOR ACCEPTABLE PRODUCTS. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
5. EXISTING FLU ROOF OPENING TO REMAIN. CONTRACTOR SHALL UTILIZE EXISTING ROOF FLUE OPENINGS FOR NEW VENTS. IN THE EVENT A NEW OPENING IS NECESSARY, COORDINATE OPENING WITH ROOFING CONTRACTOR FOR VENT BOOST INSTALLATION. REFERENCE MEP DRAWINGS.
6. EXISTING ROOF DECK 1-1/2"x22 GA TYPE F PAINTED STEEL DECK.
7. EXISTING 20H8 JOISTS @ 5'-0" +/- ON CENTER.
8. L3x3x1/2 EACH SIDE OF ROOF PENETRATION.
9. L4x4x5/8 (4) SIDES OF UNIT CURB.
10. TOP OF EXISTING CMU WALLS ARE WELDED TO ROOF DECK AT 6" oc. EXISTING EMBED PLATE IS CONTINUOUS. CONTRACTOR TO USE CAUTION DURING DEMOLITION. REFERENCE DEMOLITION PLANS.



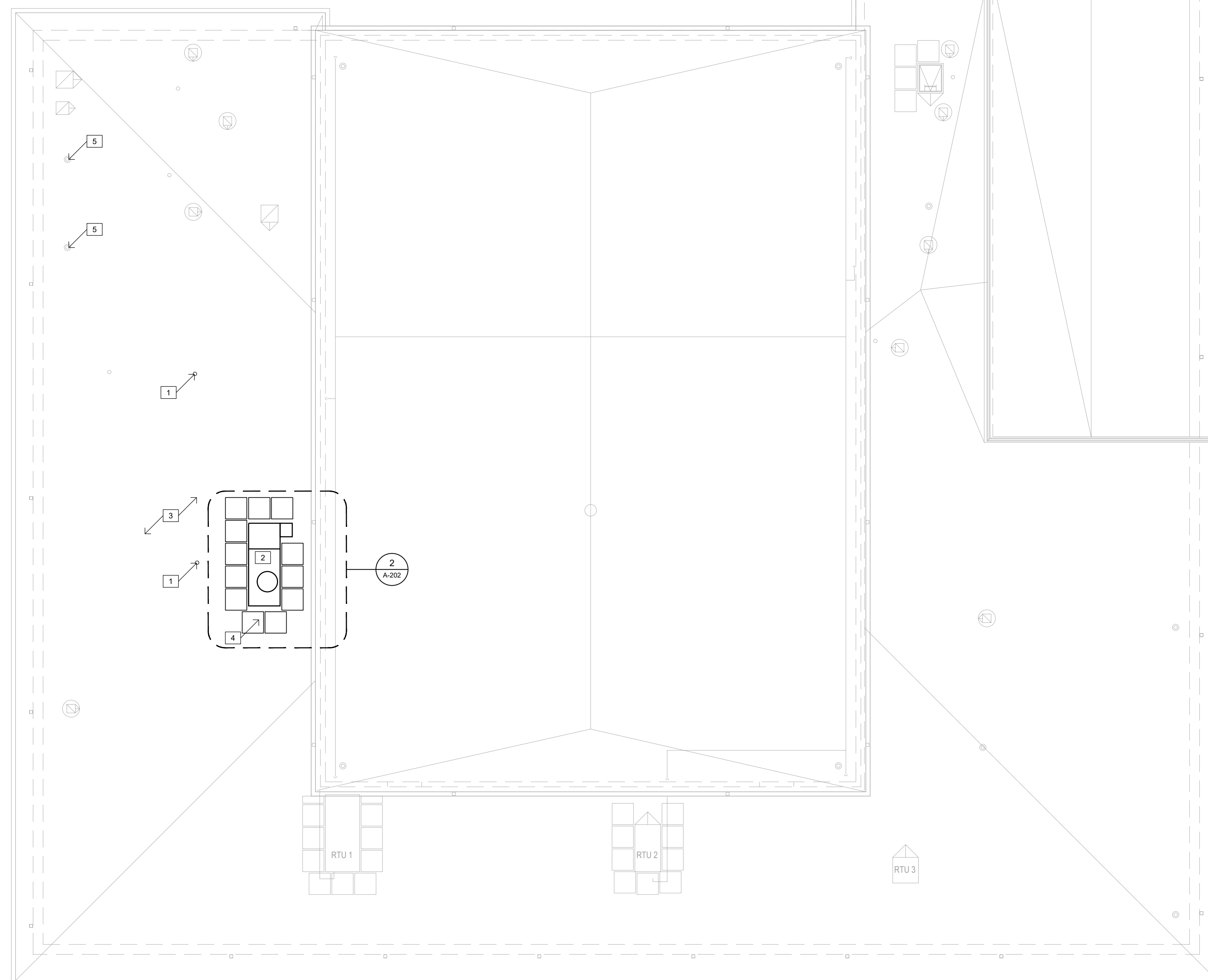
**3 ROOF OPENING DETAIL - STRUCTURAL**  
SCALE: 1" = 1'-0"



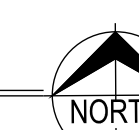
**4 ROOF OPENING DETAIL - STRUCTURAL**  
SCALE: 1" = 1'-0"



**2 PARTIAL ROOF PLAN - STRUCTURAL**  
SCALE: 1/8" = 1'-0"



**1 ALTERATIONS PLAN - ROOF PLAN**  
SCALE: 1/8" = 1'-0"







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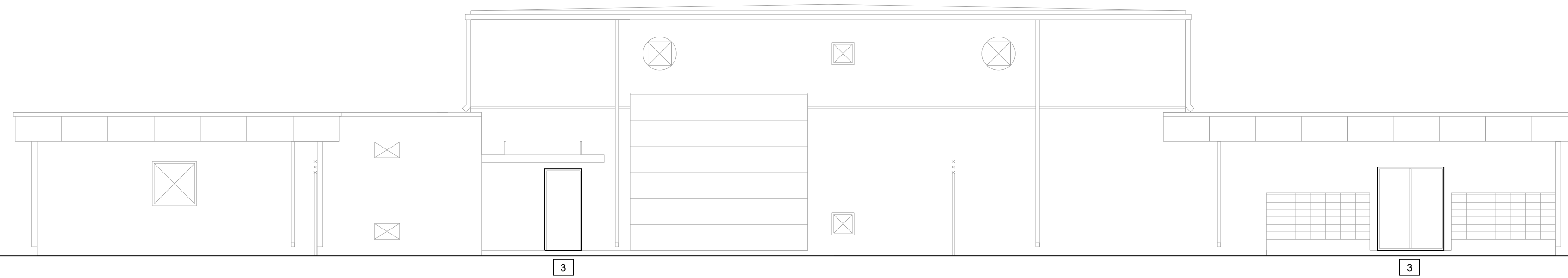
REFER TO SHEET G-002 FOR GENERAL NOTES

KEYED NOTES - ELEVATIONS: X

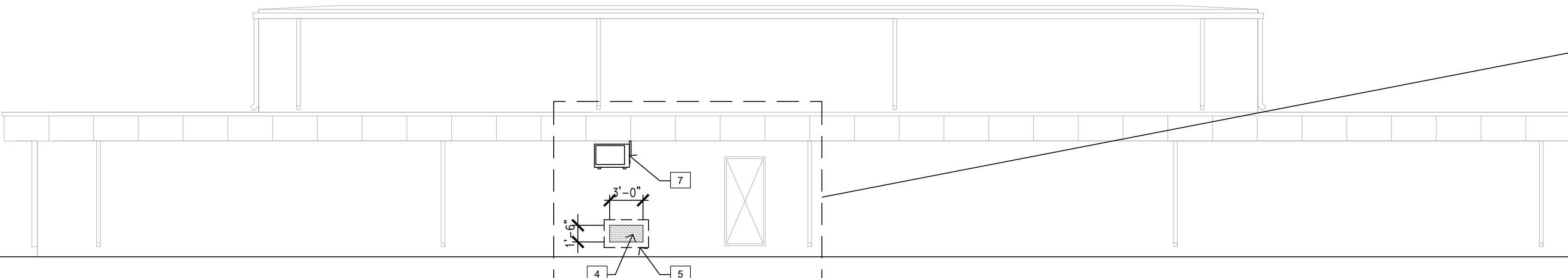
1. ALTERNATE NO. 1: NEW ALUMINUM STOREFRONT ENTRANCE WITH TRANSOM IN EXISTING MASONRY OPENING. PREP, PRIME, AND PAINT EXISTING STEEL LINTEL. REFERENCE DETAILS AND PROJECT MANUAL. ALSO REFERENCE ELECTRICAL DRAWINGS FOR ADA ACCESS CONNECTION AND ALTERNATE FOR FULL DESCRIPTION.
2. ALTERNATE NO. 1: NEW ALUMINUM SLIDING WINDOWS WITH INSULATED GLAZING IN EXISTING MASONRY OPENINGS. PREP, PRIME, AND PAINT EXISTING STEEL LINTEL. REFERENCE ALTERNATE FOR FULL DESCRIPTION.
3. EXISTING STEEL DOOR AND FRAME TO BE PREPPED AND RECEIVE NEW PAINT FINISH. PREP, PRIME, AND PAINT EXISTING STEEL LINTEL.
4. REMOVE EXISTING PTAC UNIT. INFILL OPENING WITH CONSTRUCTION TO MATCH EXISTING. REFERENCE DETAIL 7, SHEET A-501 FOR SIMILAR CONDITION AND MECHANICAL DRAWINGS.
5. REMOVE EXISTING STEEL CAGE AND FRAME FROM EXTERIOR WALL. REPAIR MASONRY AT ANCHOR POINTS.
6. REMOVE EXISTING WINDOW. INFILL OPENING WITH CONSTRUCTION TO MATCH EXISTING. REFERENCE DETAIL 7, SHEET A-501.
7. WALL MOUNT HEAT PUMP MOUNTED TO EXISTING WALL. ANCHOR TO MASONRY PER MANUFACTURER'S INSTRUCTIONS. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS.
8. REMOVE EXISTING SIDE WALL EXHAUST FANS (TYPICAL @ 2). INFILL OPENING WITH CONSTRUCTION TO MATCH EXISTING. REFERENCE DETAIL 7, SHEET A-501 FOR SIMILAR CONDITION AND MECHANICAL DRAWINGS.



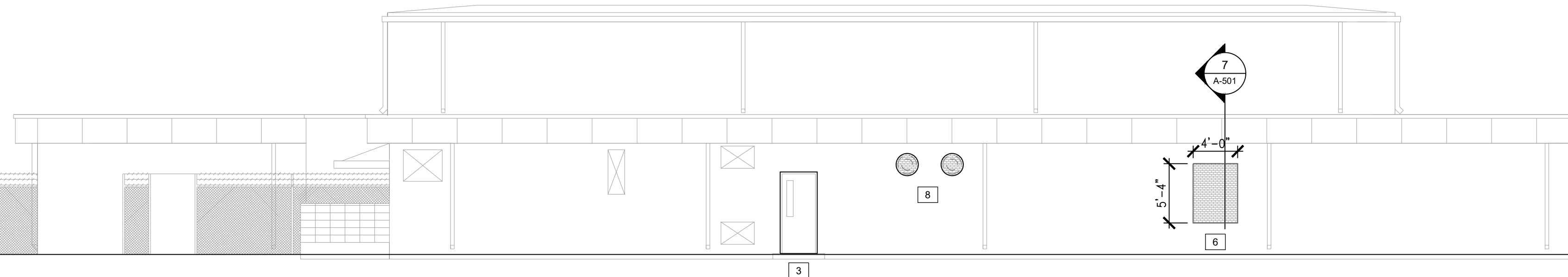
**4 ALTERATIONS - SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"



**3 ALTERATIONS - NORTH ELEVATION**  
SCALE: 1/8" = 1'-0"



**2 ALTERATIONS - EAST ELEVATION**  
SCALE: 1/8" = 1'-0"



**1 ALTERATIONS - WEST ELEVATION**  
SCALE: 1/8" = 1'-0"



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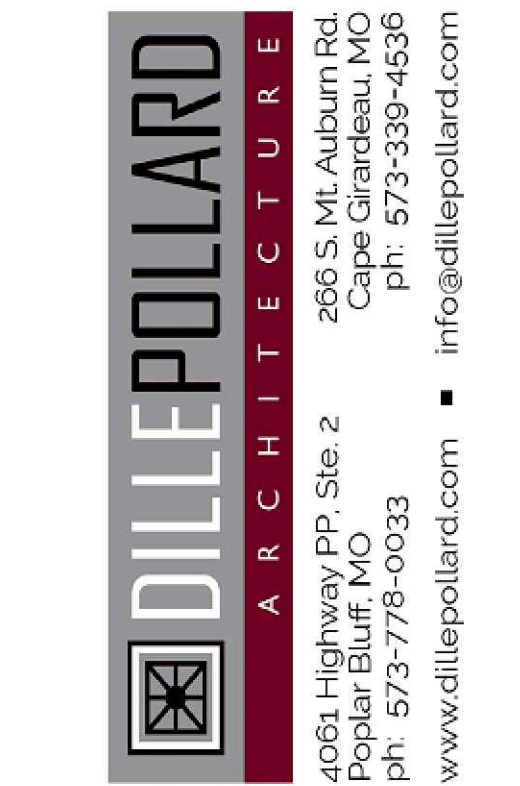
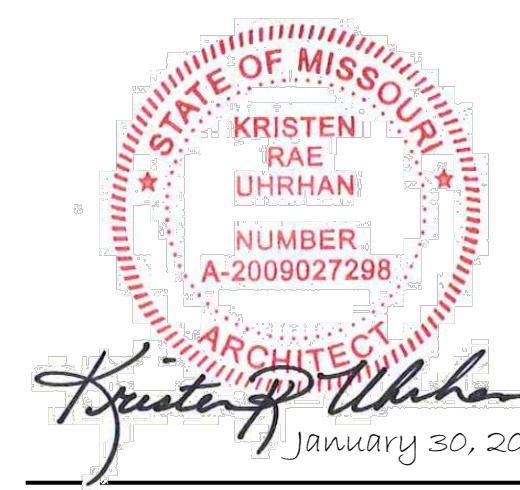
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ALTERATIONS  
- ELEVATIONS  
ALTERNATE #1

SHEET NUMBER:

**A-300**





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ISSUE DATE: January 30, 2023

CAD DWG FILE: A-100.DWG  
DRAWN BY: KU  
CHECKED BY: BD  
DESIGNED BY: KU

SHEET TITLE:

DETAIL PLANS,  
ELEVATIONS AND  
DETAILS

SHEET NUMBER:

**A-400**

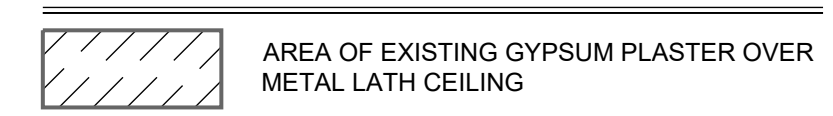
GENERAL FLOOR PLAN NOTES:

- A. GENERAL CONTRACTOR SHALL INSTALL SOLID WOOD BLOCKING AT WALLS AND PARTITIONS AS NECESSARY FOR INSTALLATION OF TOILET PARTITIONS, ACCESSORIES, LOCKERS, ETC. COORDINATE WITH OWNER.
- B. REFER TO SHEET G-002 FOR TYPICAL GENERAL NOTES.

KEYED NOTES (ALTERATIONS):

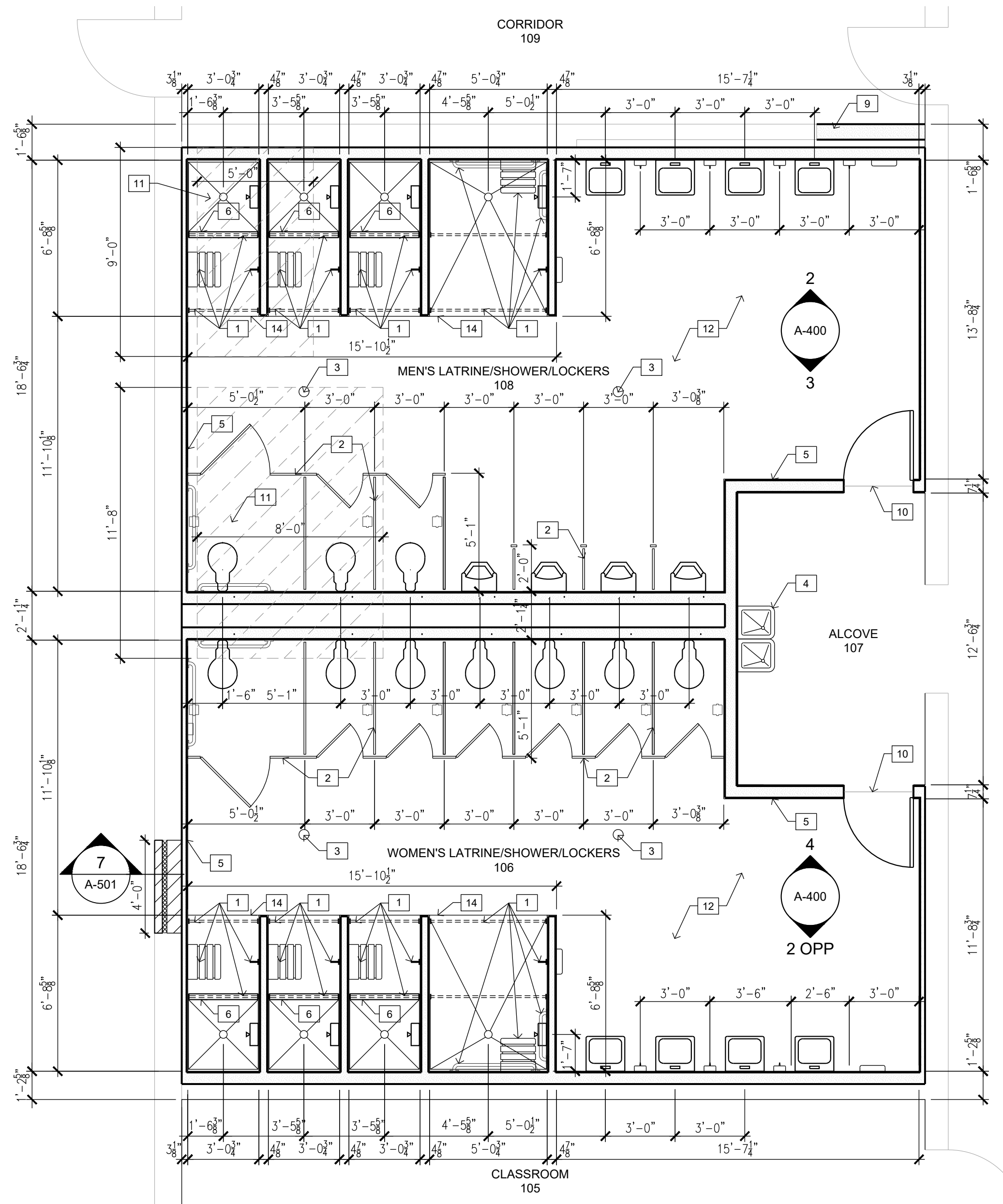
1. SHOWER ACCESSORIES PER SPECIFICATIONS. PROVIDE BLOCKING AS REQUIRED.
2. FLOOR MOUNTED, OVER-HEAD BRACED TOILET PARTITIONS AS SPECIFIED. PROVIDE BLOCKING AS REQUIRED.
3. SLOPE CONCRETE 1/8" TO FLOOR DRAIN. COORDINATE WITH MEP SHEETS. SLOPE SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
4. HIGH-LOW ADA COMPLIANT ELECTRIC WATER COOLER, REFERENCE PLUMBING SHEET P-100.
5. RESINOUS WALL COVERING AS SPECIFIED. PREP WALLS AS RECOMMENDED BY PRODUCT MANUFACTURER. TYPICAL AT LATRINES/SHOWER AREAS.
6. INSTALL NEW SHOWER CURB AT SHOWER ENTRANCE. REF. DETAIL 6, THIS SHEET.
7. PROVIDE ADA COMPLIANT LAVATORY GUARD AT EACH LAVATORY SUPPLY AND WASTE LINES.
8. WALL MOUNTED LIGHT FIXTURE. REF. ELECTRICAL SHEETS.
9. CONTINUE EXISTING CORRIDOR PARTITION TO ASSEMBLY HALL PARTITION. INFILL OPENING WITH CMU TO MATCH EXISTING CONSTRUCTION. FINISH TO MATCH EXISTING. REF. FINISH SCHEDULE.
10. CUT 1/4" WIDE X 1/4" DEEP KEYWAY, FULL LENGTH OF OPENING FOR RESINOUS FLOOR EDGE. COORDINATE WITH RESINOUS FLOORING MANUFACTURER FOR FINISH REQUIREMENTS AT EXISTING SLAB.
11. INSTALL LIGHTWEIGHT CONCRETE INFILL AT EXISTING MORTAR BED (DESIGNATED WITH DASHED HATCH PATTERN). COORDINATE WITH RESINOUS FLOORING MANUFACTURER FOR FINISH REQUIREMENTS AND EDGE TREATMENTS AT EXISTING SLAB.
12. PREP EXISTING CONCRETE SLAB FOR RESINOUS FLOORING. COORDINATE WITH RESINOUS FLOORING MANUFACTURER FOR REQUIREMENTS.
13. INSTALL 4" THICK CONCRETE OVER VAPOR BARRIER OVER 4" OF COMPACTED BASE AT FLOOR INFILL AREAS DEMOLISHED FOR PLUMBING LINE INSTALLATION. DRILL-IN AND EPOXY #4x12" DOWELS AT 24" O.C. AT PERIMETER OF OPENING. COORDINATE WITH RESINOUS FLOORING MANUFACTURER FOR FINISH REQUIREMENTS AND EDGE TREATMENTS AT EXISTING SLAB. SEE DETAIL 5, SHEET A-400.
14. INSTALL GYP BOARD SOFFIT/CEILING AT SHOWER AREAS. SEE DETAIL 2, SHEET A-201.

SYMBOL LEGEND (THIS SHEET ONLY)

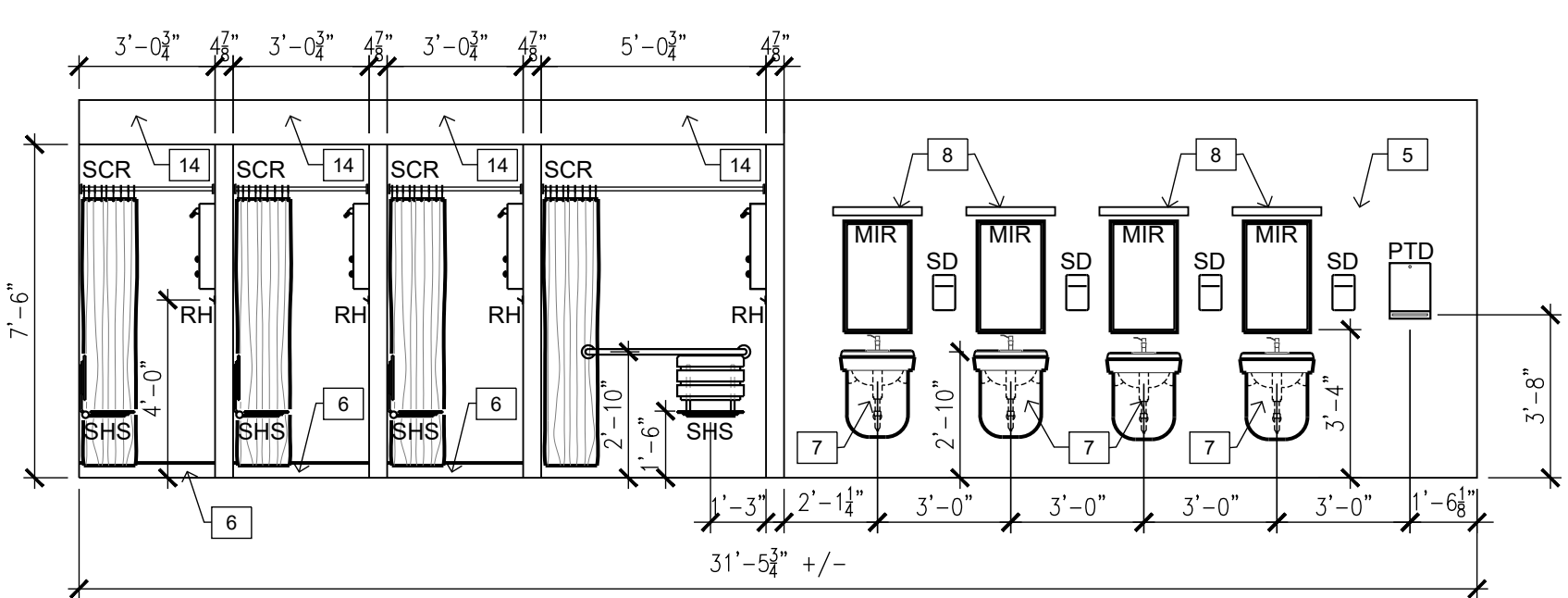


ABBREVIATIONS (THIS SHEET ONLY)

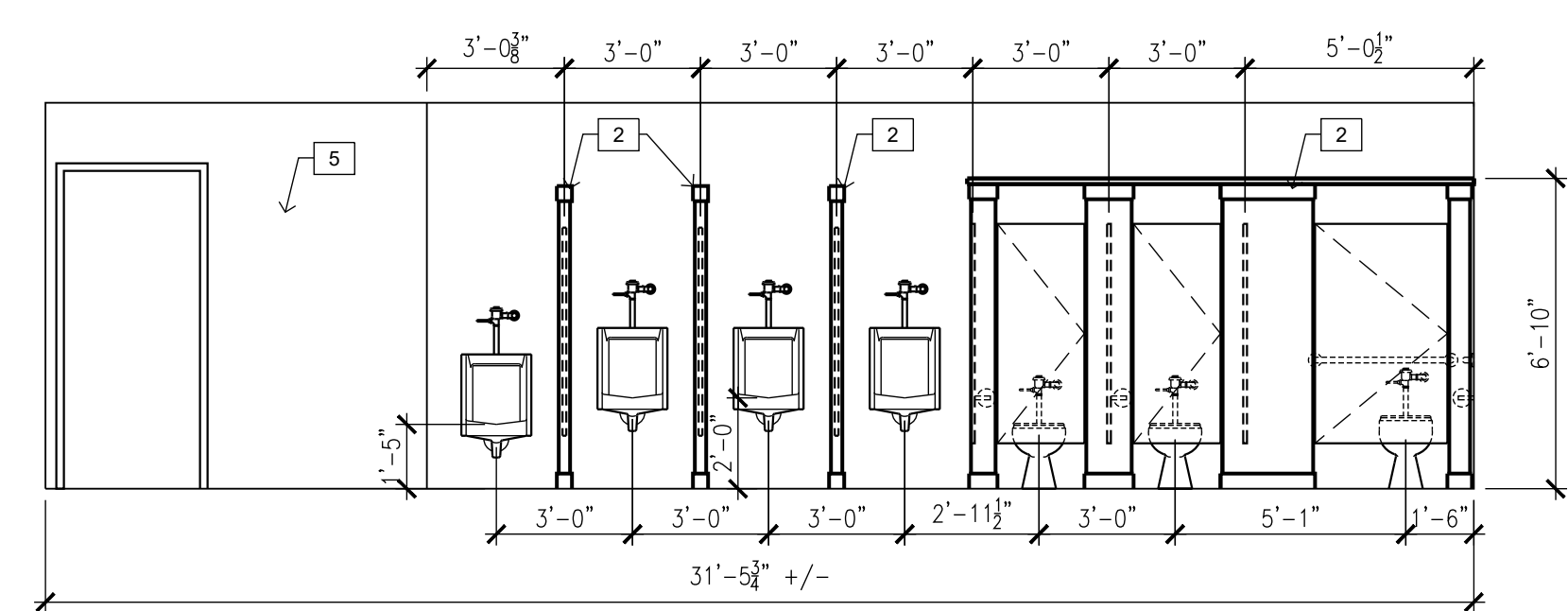
GBXX	GRAB BAR (LENGTH NOTED) (BY G.C.)
MIR	18"x30" MIRROR (BY G.C.) WITH 5" x 18" S.S. SHELF BELOW (BY G.C.)
PTD	PAPER TOWEL DISPENSER (BY OWNER)
RH	ROBE HOOK (BY G.C.)
SCR	SHOWER CURTAIN ROD (BY G.C.)
SHS	SHOWER SEAT (BY G.C.)
SD	SOAP DISPENSER (BY OWNER)
SND	SANITARY NAPKIN DISPENSER (BY G.C.)
TPD	TOILET PAPER DISPENSER (BY G.C.)



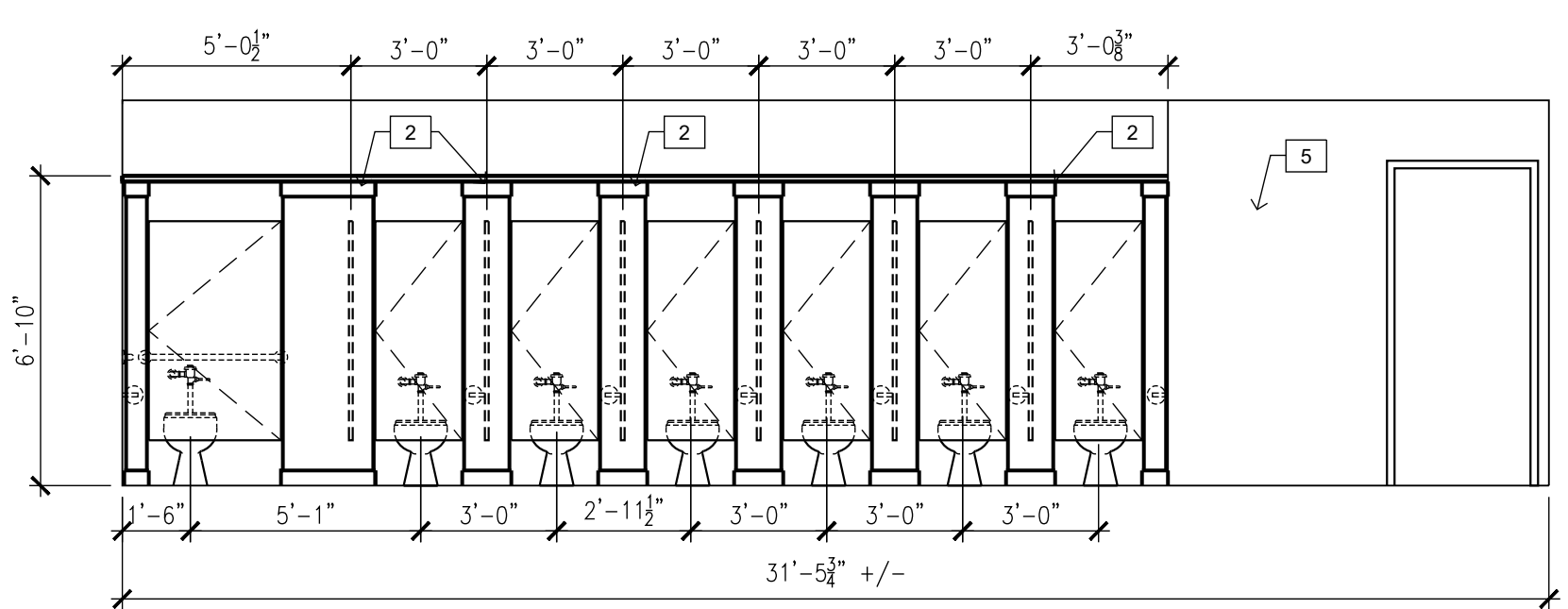
**1** DETAIL PLAN - LATRINES / SHOWERS / LOCKERS  
SCALE: 1/4" = 1'-0"



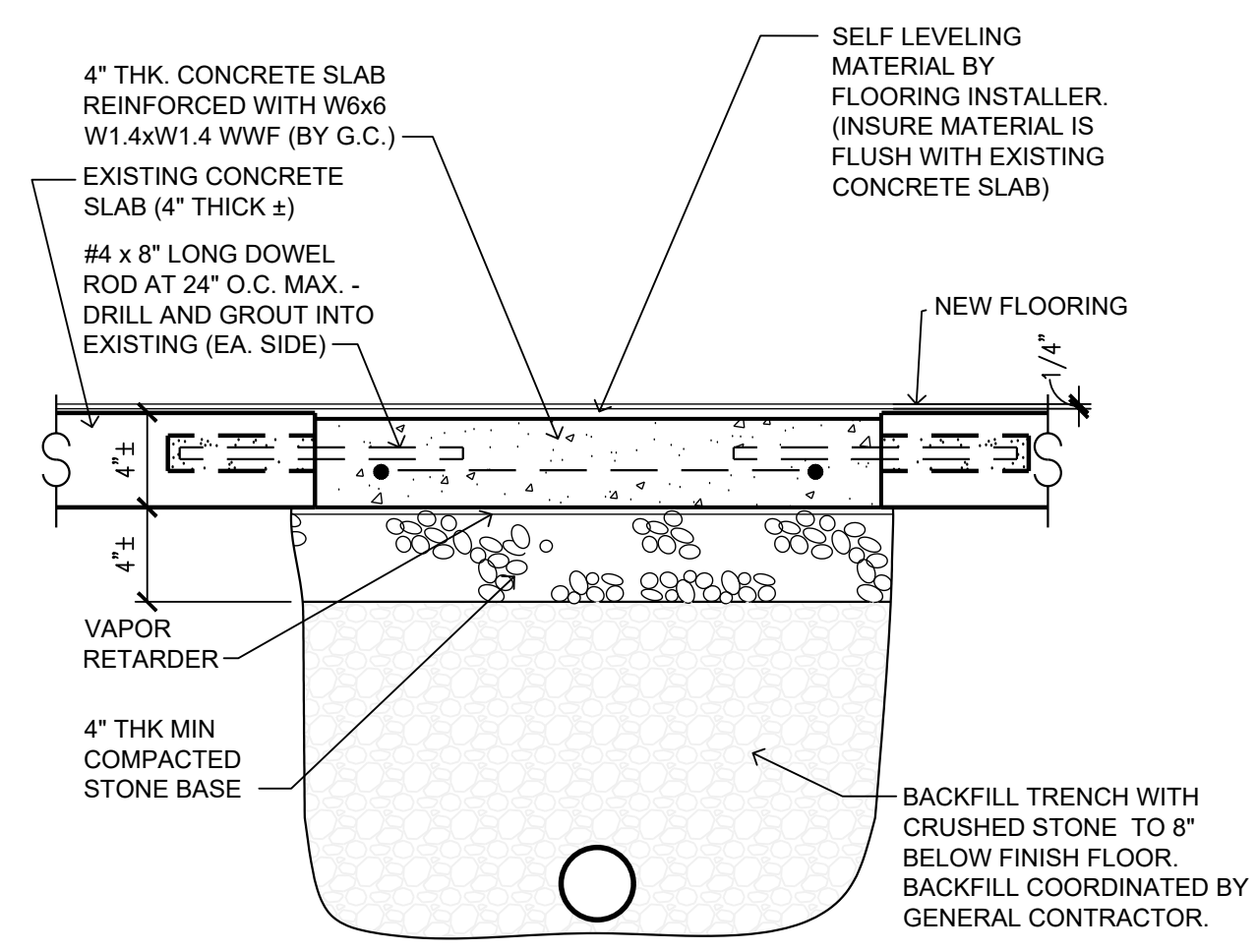
**2** DETAIL ELEVATION - SHOWERS & LAVATORIES (TYPICAL) 106 & 108  
SCALE: 1/4" = 1'-0"



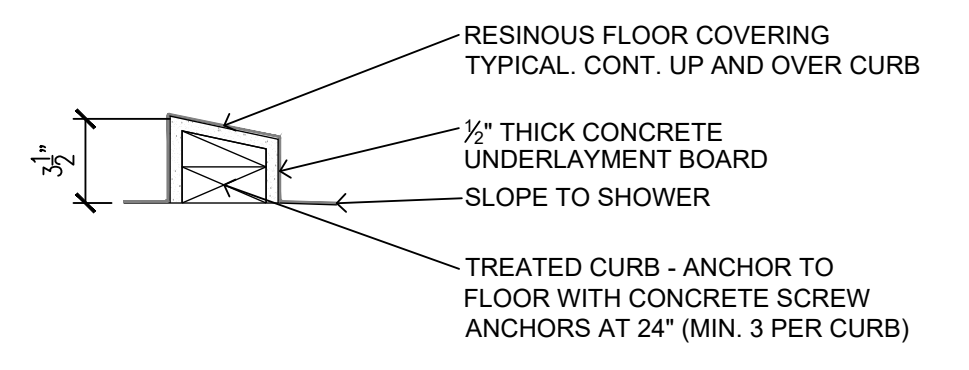
**3** DETAIL ELEVATION - MEN'S LATRINES 108  
SCALE: 1/4" = 1'-0"



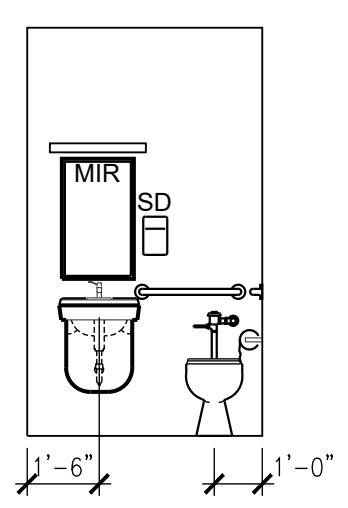
**4** DETAIL ELEVATION - WOMEN'S LATRINES 106  
SCALE: 1/4" = 1'-0"



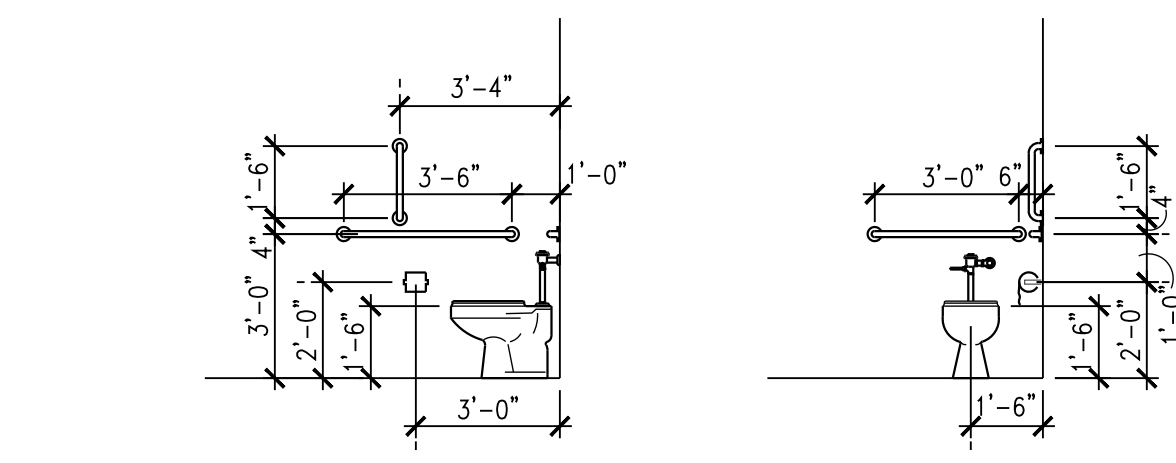
**5** TYPICAL CONCRETE INFILL @ PLBG TRENCH  
SCALE: 1/4" = 1'-0"



**6** TYPICAL SHOWER CURB DETAIL  
SCALE: 1/4" = 1'-0"



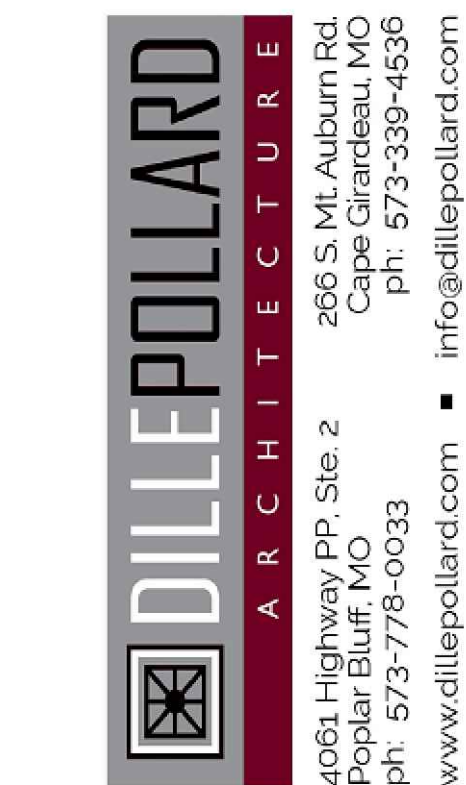
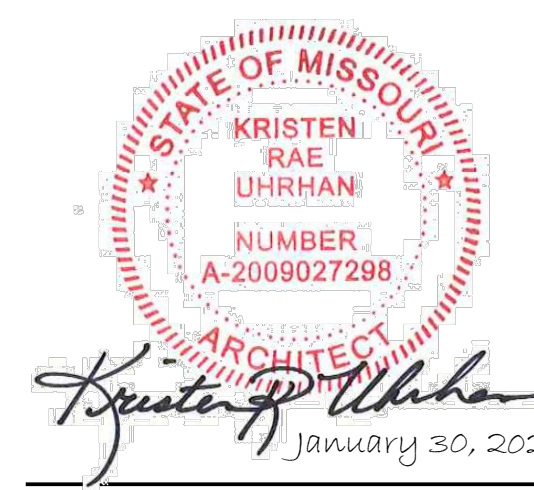
**7** DETAIL ELEVATION - TOILET 120  
SCALE: 1/4" = 1'-0"



**8** TYPICAL DETAIL ELEVATIONS  
SCALE: 1/4" = 1'-0"







### ROOM FINISH SCHEDULE

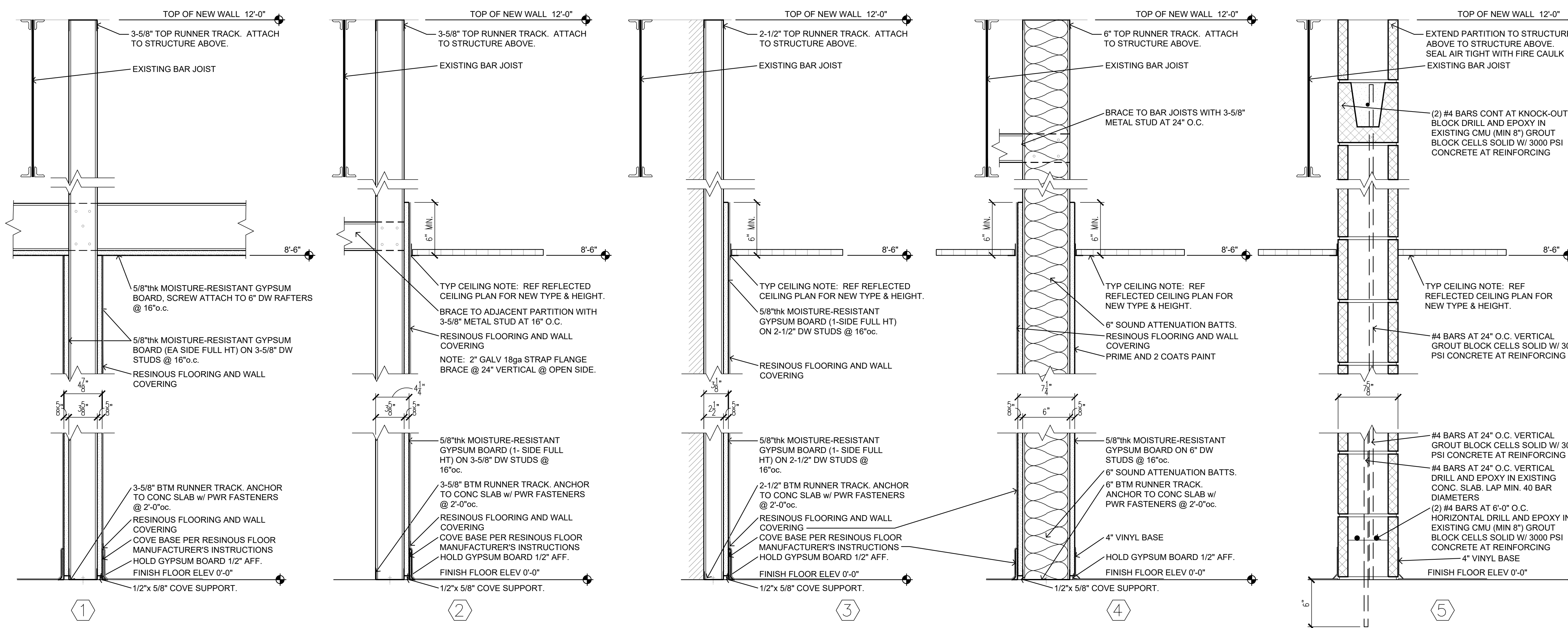
ROOM	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING	REMARKS
101	ADMINISTRATIVE OFFICE	CARPET TILE (CT)	VINYL WALL BASE (VWB)	PAINT	EXISTING / NO WORK	-	
102	LOBBY	LUXURY VINYL TILE (LVT)	VINYL WALL BASE (VWB)	PAINT	EXISTING / NO WORK	-	[5]
103	OFFICE	CARPET TILE (CT)	VINYL WALL BASE (VWB)	PAINT	EXISTING / NO WORK	-	
104	OFFICE	CARPET TILE (CT)	VINYL WALL BASE (VWB)	PAINT	EXISTING / NO WORK	-	[5]
105	CLASSROOM	LUXURY VINYL TILE (LVT)	VINYL WALL BASE (VWB)	PAINT	EXISTING / NO WORK	-	[5]
106	WOMEN'S LATRINE/SHOWERS/LOCKERS	RESINOUS FLOORING	INTEGRAL RESINOUS BASE	GYPSUM BOARD w/ RESINOUS WALL FINISH	SUSPENDED CEILING 2x2	8'-6"	[1], [3], [4]
107	ALCOVE	LUXURY VINYL TILE (LVT)	VINYL WALL BASE (VWB)	PAINT	SUSPENDED CEILING 2x2	9'-0"	
108	MEN'S LATRINE/SHOWERS/LOCKERS	RESINOUS FLOORING	INTEGRAL RESINOUS BASE	GYPSUM BOARD w/ RESINOUS WALL FINISH	SUSPENDED CEILING 2x2	8'-6"	[1], [3], [4]
109	CORRIDOR	EXISTING / NO WORK	VINYL WALL BASE (VWB)	PAINT	EXISTING / NO WORK	-	[5], [8]
110	FOOD PREP	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	-	[2], [5]
111	STORAGE	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	-	[2]
112	MECHANICAL EQUIPMENT	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	-	[2]
113	SCULLERY	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	-	[2], [5]
114	ASSEMBLY HALL	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	OPEN TO STRUCTURE	20'-0" +/-	[5]
115	UNIT STORAGE	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	OPEN TO STRUCTURE	-	[2], [5]
116	VAULT	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	-	[2]
117	OFFICE	CARPET TILE (CT)	VINYL WALL BASE (VWB)	PAINT	SUSPENDED CEILING 2x2	9'-0"	[7]
118	OBSERVATION	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	-	[2]
119	HALL	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	-	[2], [5]
120	TOILET	EXISTING / NO WORK	EXISTING / NO WORK	PAINT	EXISTING / PAINT	-	[6]
121	STORAGE	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	-	[2]
122	STORAGE	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	-	[2], [5]
123	STORAGE	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	-	[2], [5]
124	FLAMMABLE	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	-	[2]
125	RIFLE RANGE	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	EXISTING / NO WORK	-	[2]

**FINISH REMARKS:**

- [1] EXISTING FINISHES AND WALLS TO BE DEMOD TO EXTENTS INDICATED ON THE PLANS. CONCRETE SLABS TO BE SAWCUT AS REQUIRED FOR NEW PLUMBING AND REPAIRED ACCORDINGLY TO RECEIVE FLOOR LEVELER FOR NEW RESINOUS FINISH. REFERENCE SPECIFICATION FOR RESINOUS TYPE.
- [2] EXISTING SPACE - NO WORK REQUIRED. IF AREA IS DISTURBED BY DEMO WORK, REPAIRS REQUIRED TO RESTORE TO ORIGINAL CONDITIONS.
- [3] 5/8" MOISTURE-RESISTANT GYPSUM BOARD (ALL TOILET ROOM WALLS) w/ RESINOUS FINISH (FULL HEIGHT OF WALL). REFERENCE SPECIFICATION FOR RESINOUS TYPE.
- [4] 5/8" MOISTURE-RESISTANT GYPSUM BOARD AT ALL SHOWER CEILING.
- [5] PREP AND PAINT EXISTING WALK DOORS AND FRAMES AT ASSEMBLY HALL AREA.
- [6] EXISTING FLOOR AND WALL TILE TO REMAIN AND CLEANED.
- [7] RE-INSTALL EXISTING LIGHT FIXTURES IN NEW CEILING GRID. REFERENCE ELECTRICAL DRAWINGS.
- [8] INSTALL NEW VINYL BASE TO MATCH EXISTING AT WALL INFILL.

**GENERAL FINISH NOTES:**

- A REFER TO THE REFLECTED CEILING PLANS FOR LOCATION AND TREATMENT OF HEADWALLS, FURRED CEILINGS, EXPANSION JOINTS. NOT NOTED IN SCHEDULE.
- B PROVIDE TRANSITION STRIPS BETWEEN FLOORING AND OTHER TRANSITIONS.
- C REFER TO THE DOOR, OPENING & FRAME SCHEDULE FOR FINISH OF DOORS, FRAME AND TRIM.
- D HEADWALLS, FURRED CEILINGS, ETC. TO BE PAINTED TO MATCH ADJACENT WALLS.



**1 INTERIOR WALL TYPES**  
SCALE: 1 1/2" = 1'-0"

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RENOVATE INTERIOR  
AND EXTERIOR

KENNETT  
READINESS CENTER  
1450 NORTH BY-PASS  
KENNETT, MO 63857

PROJECT # T2209-01

FACILITY # 8136313002

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: January 30, 2023

CAD DWG FILE: A-100.DWG  
DRAWN BY: KU  
CHECKED BY: BD  
DESIGNED BY: KU

SHEET TITLE:

SCHEDULES AND  
DETAILS

SHEET NUMBER:

**A-500**



# DOOR, OPENING, AND FRAME SCHEDULE

NO	DOOR/OPNG SIZE	D-THK	D-MATL	D-TYPE	D-FIN	D-HDWR	F-MATL	F-TYPE	F-FIN	LABEL	REMARKS
ALTERNATE BID NO. 2:											
102-A	(2) 3'-0"x7'-0"	1-3/4"	ALUM	D-1	PFD	1	ALUM	F-1	PFD	-	1, 2
BASE BID:											
106-A	(1) 3'-0"x7'-0"	1-3/4"	WOOD	D-2	PFD	2	HMF	F-2	PAINT	-	-
108-A	(1) 3'-0"x7'-0"	1-3/4"	WOOD	D-2	PFD	2	HMF	F-2	PAINT	-	-

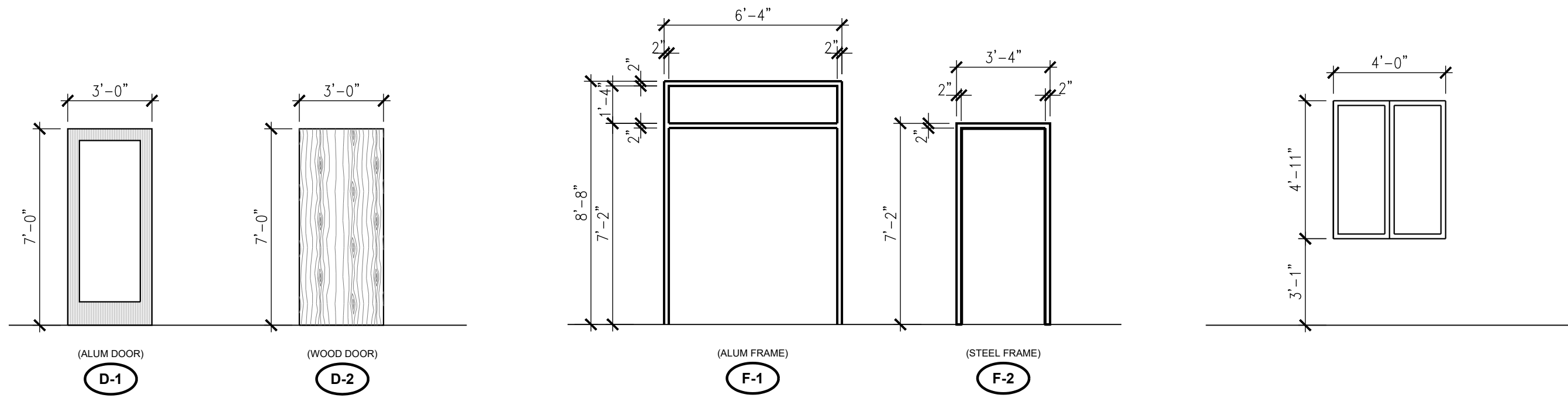
**ABBREVIATIONS:**  
**HMF** HOLLOW METAL FRAME  
**PFD** PRE-FINISHED

**DOOR, OPENING & FRAME SCHEDULE REMARKS:**

- NEW DOOR IN EXISTING MASONRY OPENING.
- RE-USE EXISTING STANLEY DOOR OPERATOR AND ACTUATORS

**GENERAL NOTES:**

- REFERENCE DOOR DETAILS FOR FRAME PROFILE TYPES.
- PAINT STEEL FRAME (GALVANIZED) EPOXY, GLOSS
- REFERENCE SPECIFICATIONS FOR DOOR HARDWARE GROUPS
- ALL EXTERIOR AND INTERIOR STEEL DOORS AND FRAMES TO BE PREPPED AND RECEIVE NEW PAINT FINISH



## 1 DOOR TYPES

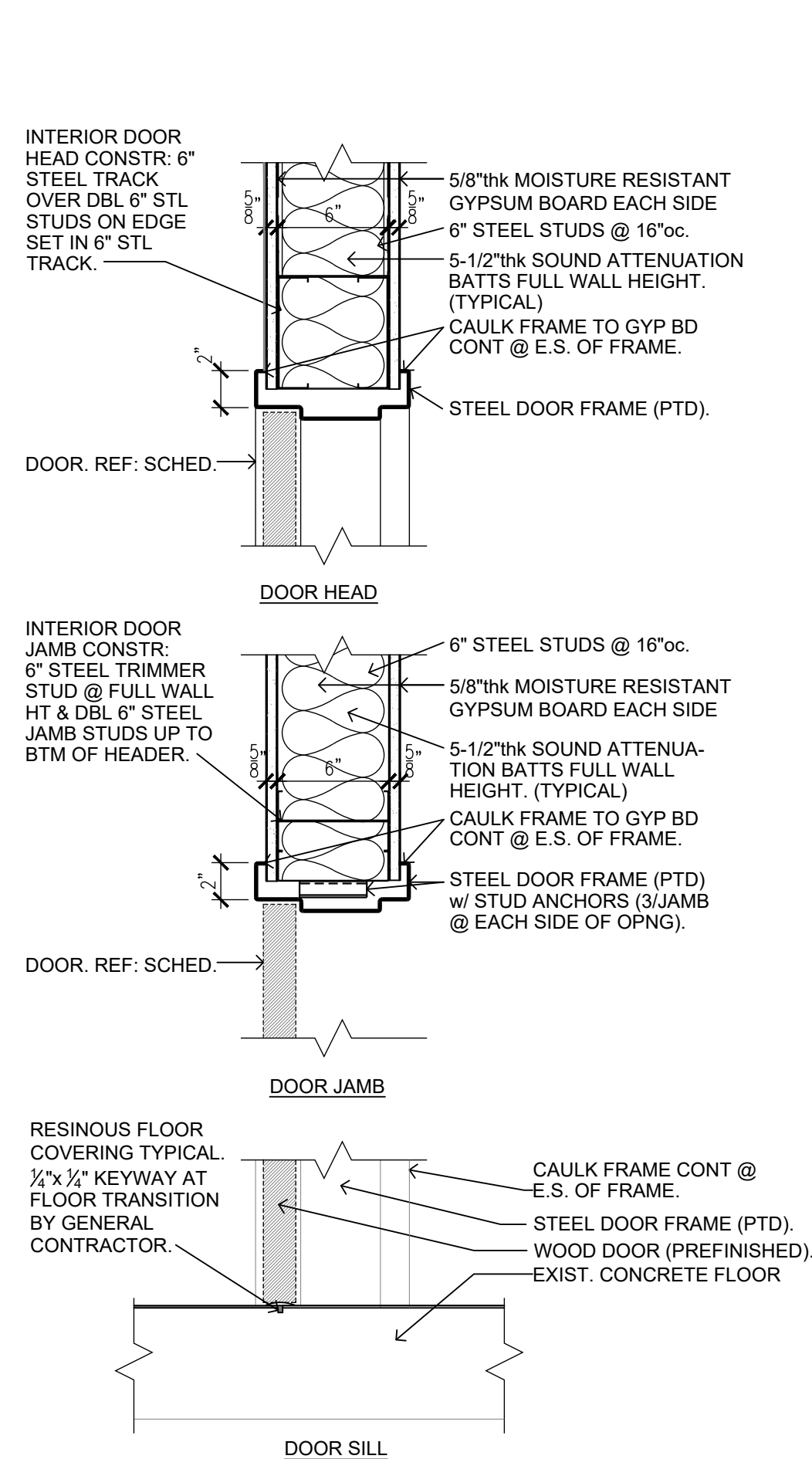
SCALE: 1/4" = 1'-0"

## 2 FRAME TYPES

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

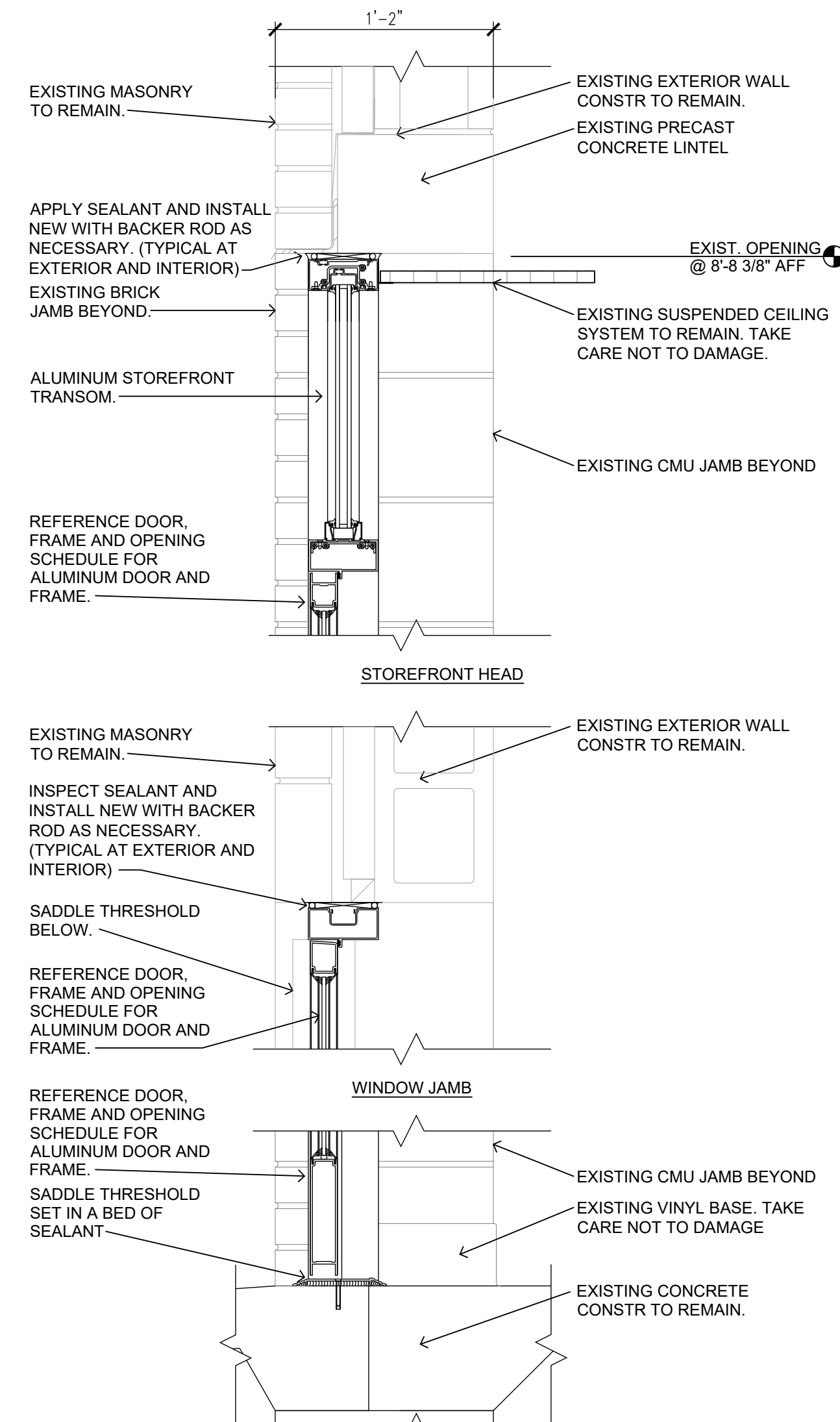
## 3 WINDOW TYPE

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



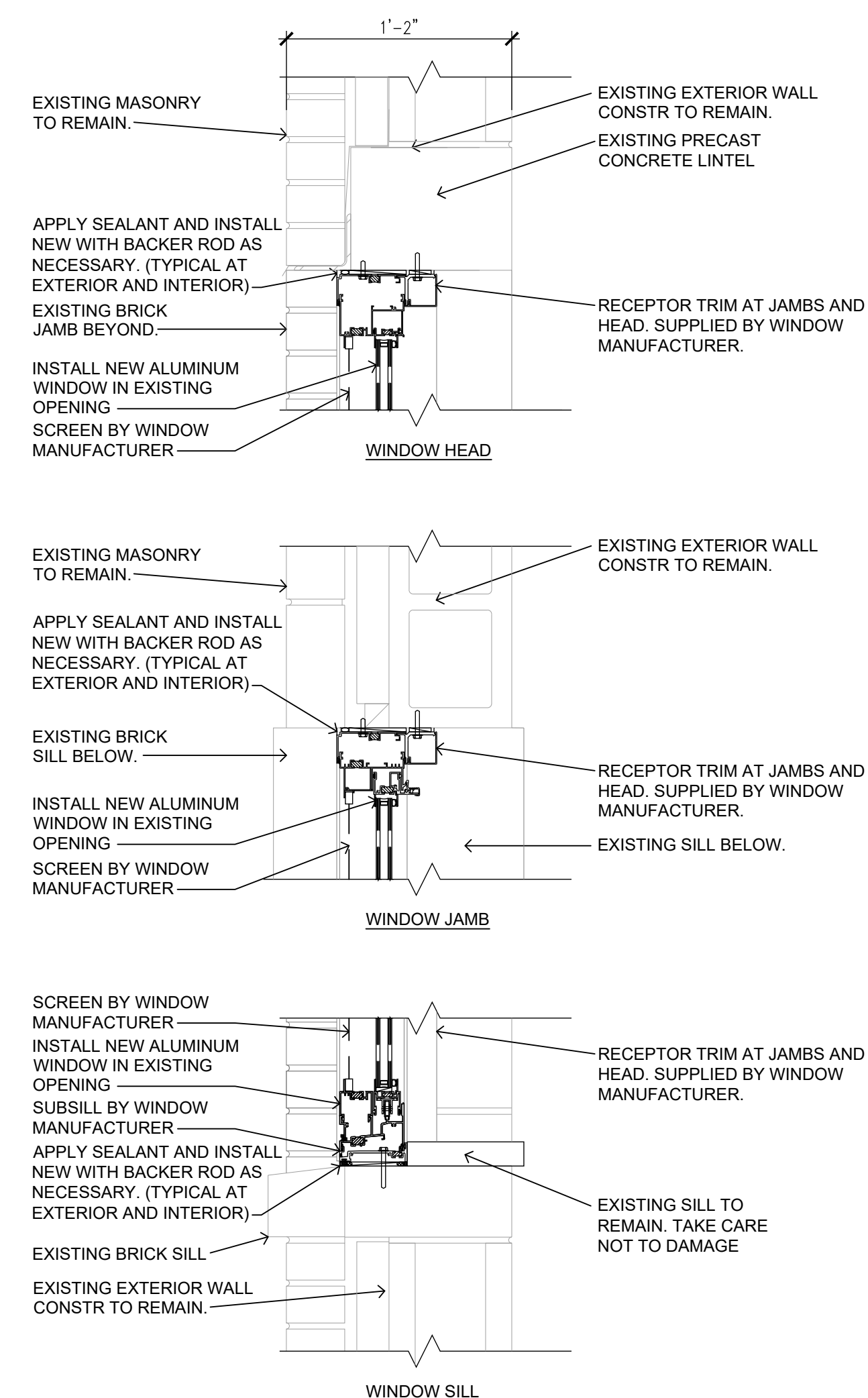
## 4 DOOR DETAILS - INTERIOR

SCALE: 1 1/2" = 1'-0"



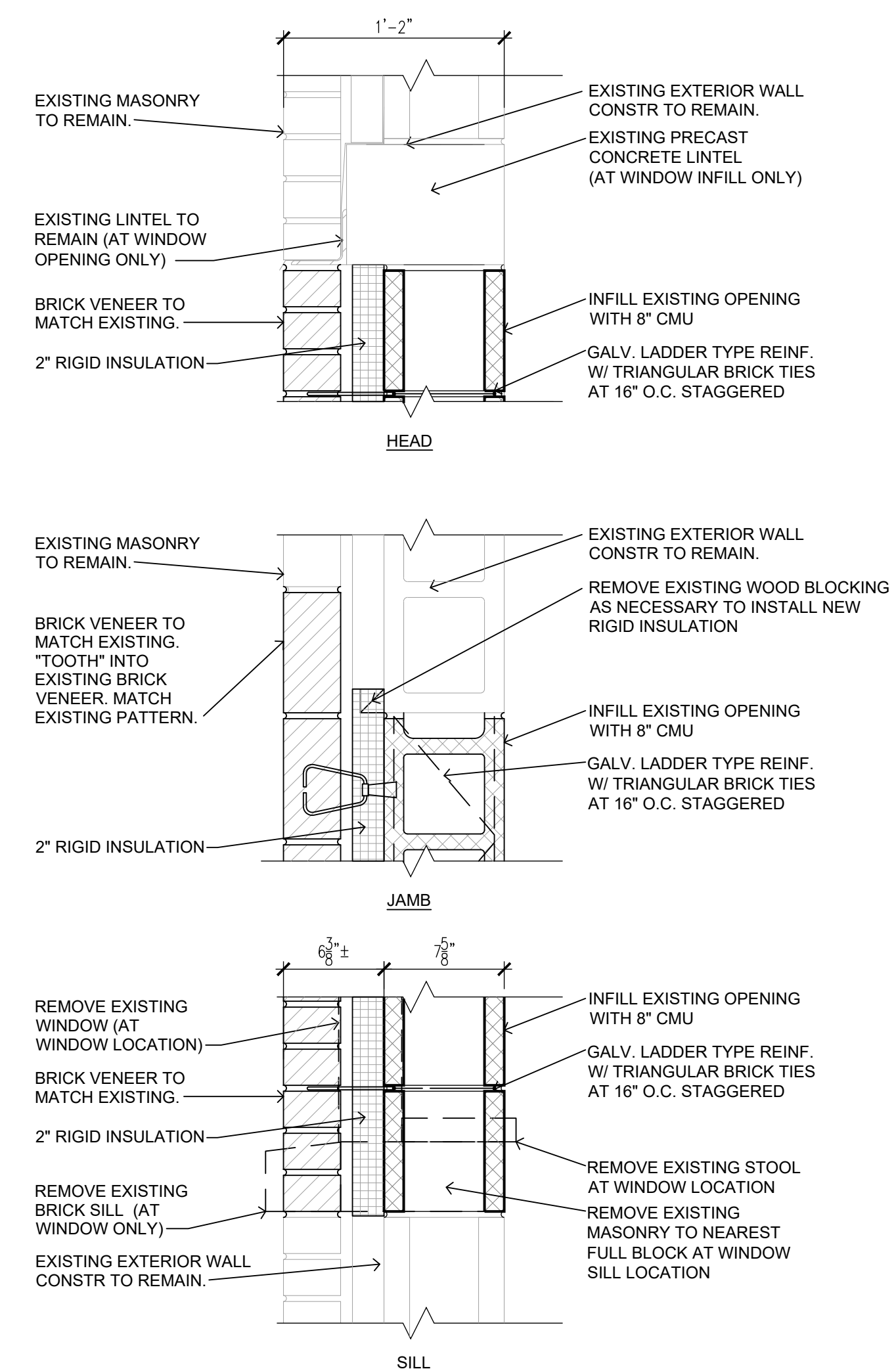
## 5 DOOR DETAILS - EXTERIOR

SCALE: 1 1/2" = 1'-0"



## 6 WINDOW DETAILS - ALTERNATE BID NO. 2

SCALE: 1 1/2" = 1'-0"



## 7 WALL OPENING INFILL DETAIL

SCALE: 1 1/2" = 1'-0"



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 ISSUE DATE: January 30, 2023

CAD DWG FILE: A-100.DWG  
 DRAWN BY: KU  
 CHECKED BY: BD  
 DESIGNED BY: KU

SHEET TITLE:

SCHEDULES AND  
 DETAILS

SHEET NUMBER:

**A-501**





PROFESSIONAL SEAL

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CAD DWG FILE: ME-100.DWG  
DRAWN BY: JEB  
CHECKED BY: RJD  
DESIGNED BY: JEB

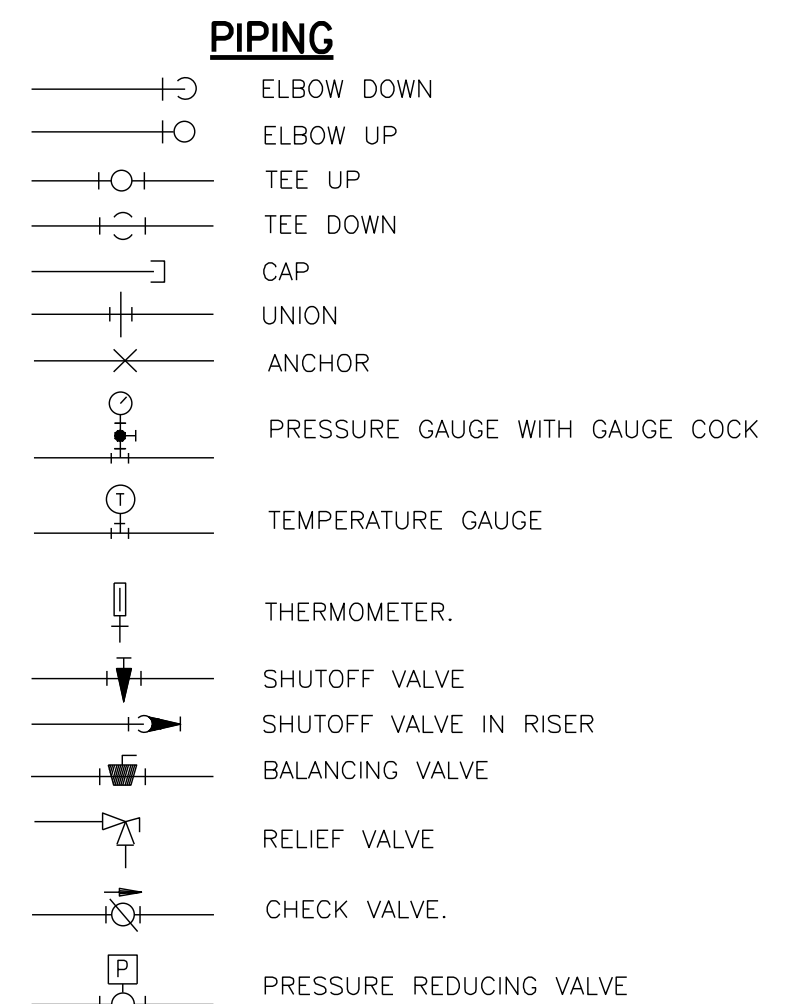
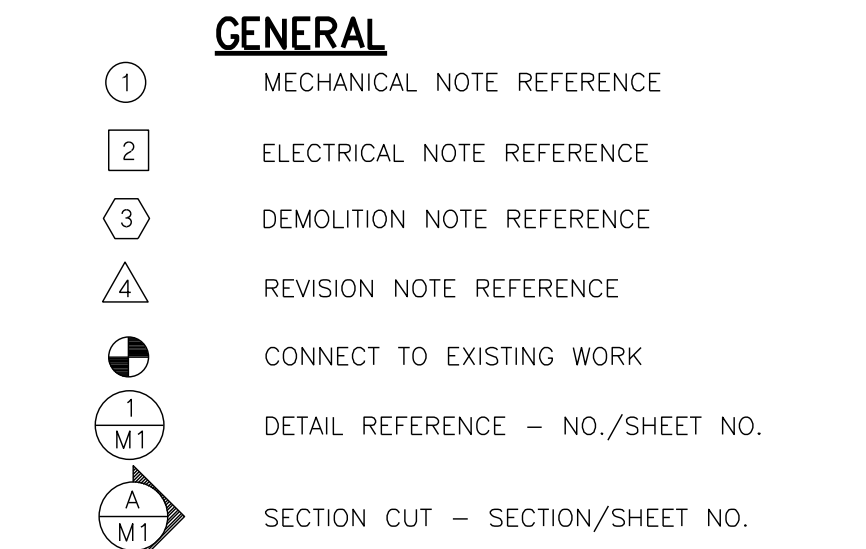
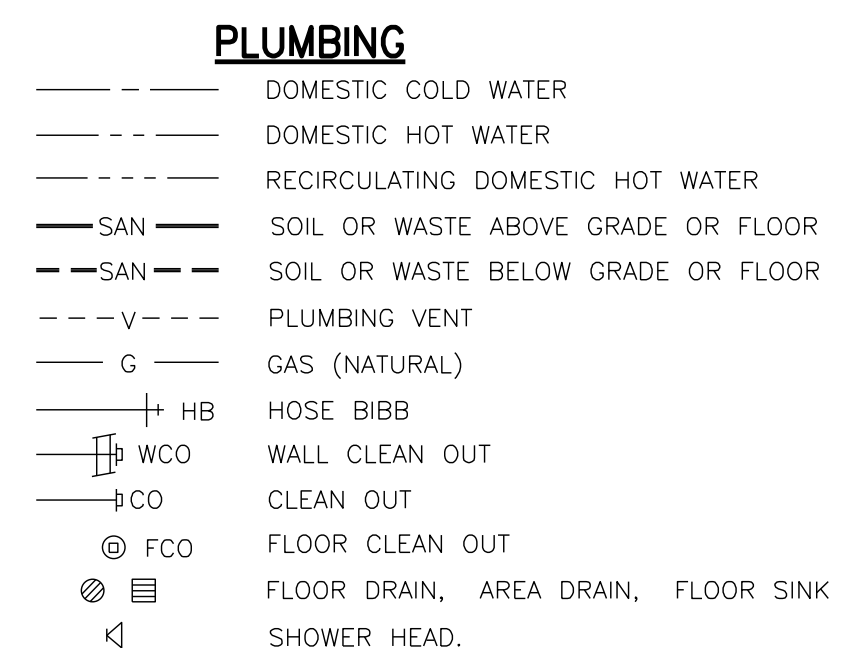
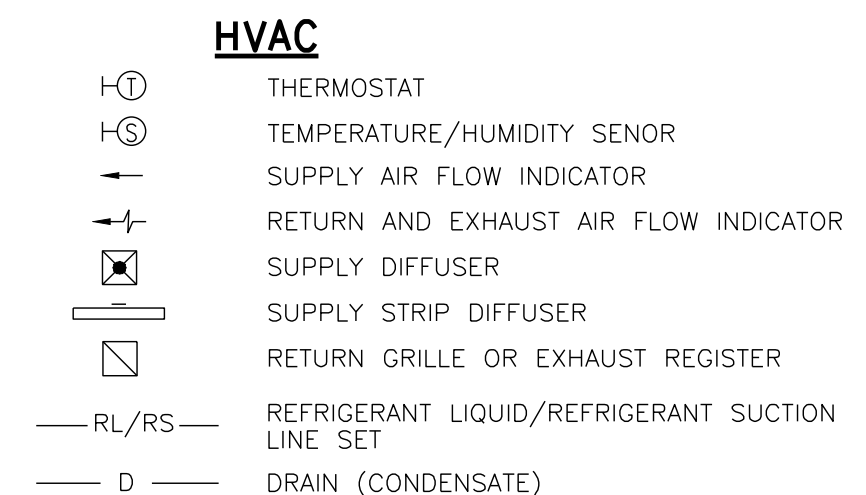
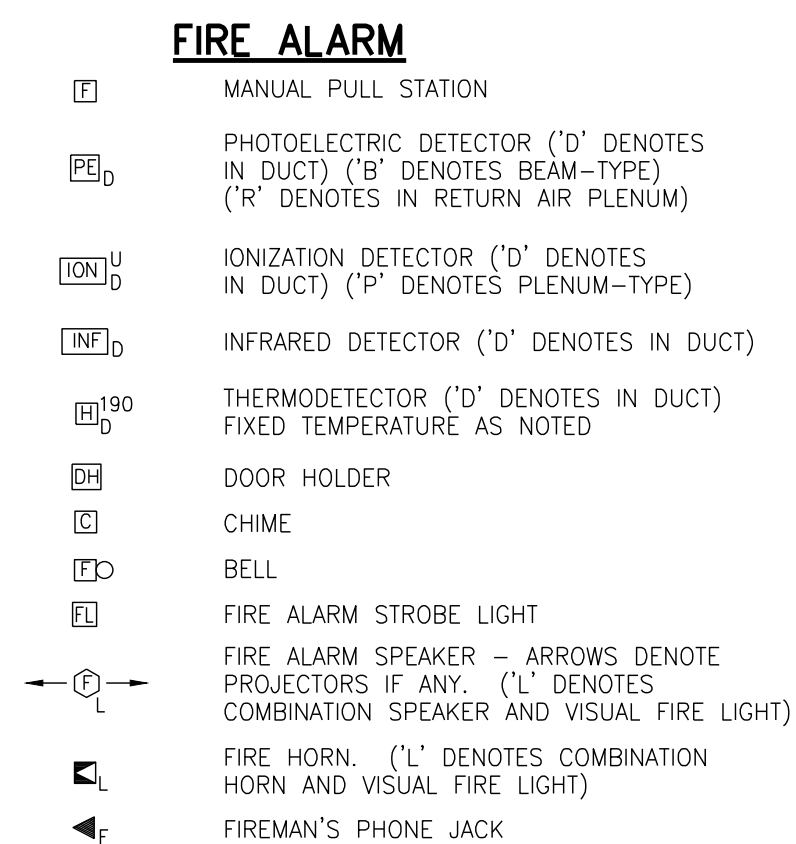
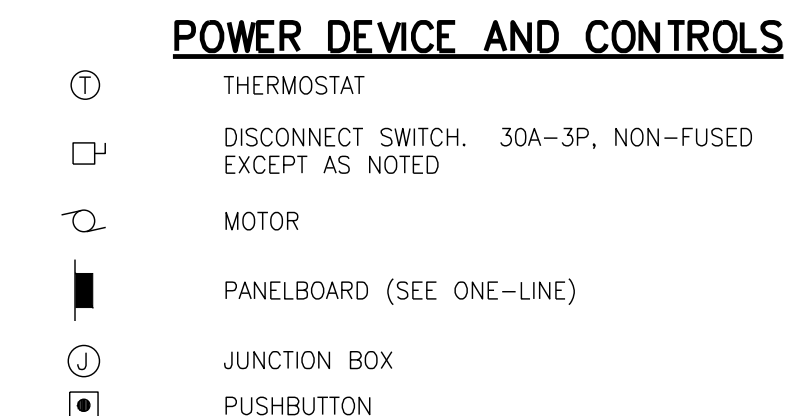
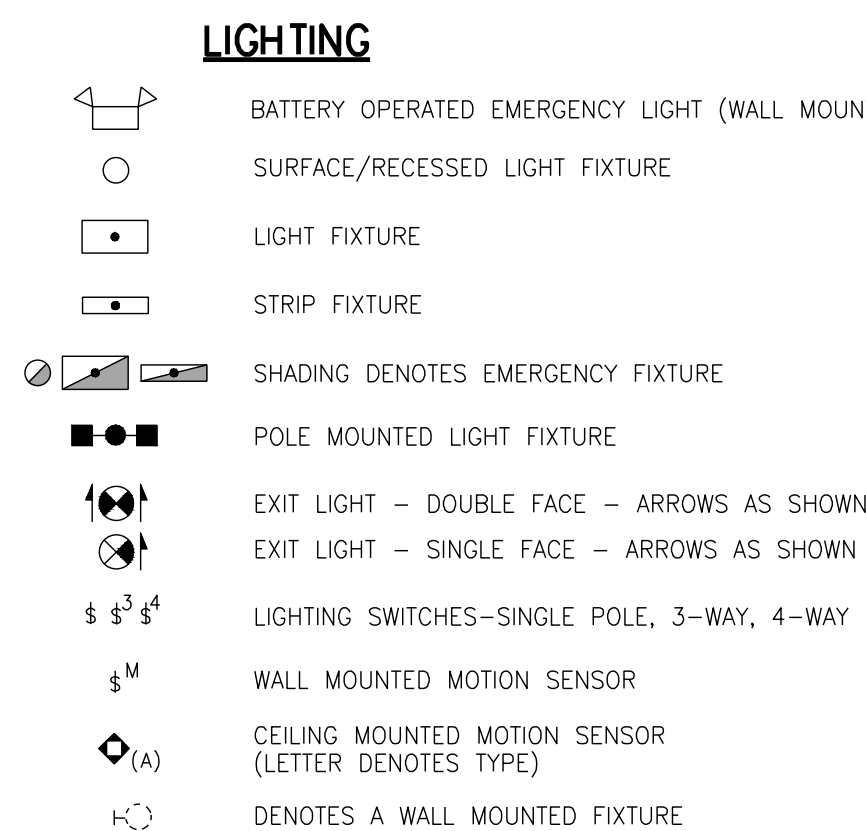
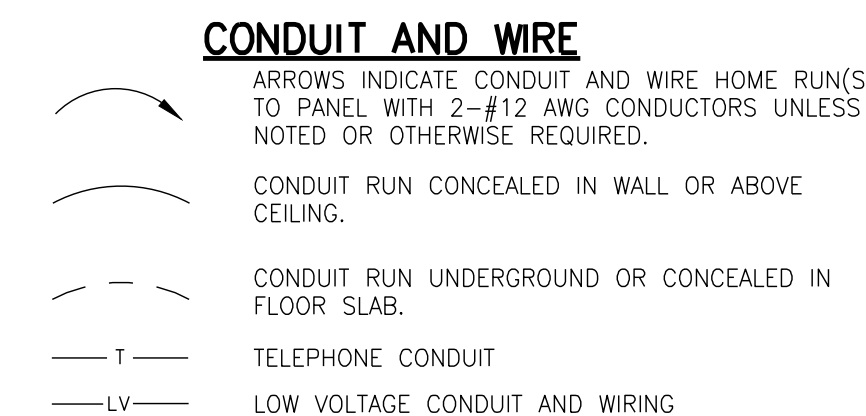
SHEET TITLE:  
**SYMBOLS AND  
ABBREVIATIONS -  
MECHANICAL AND  
ELECTRICAL**

SHEET NUMBER:

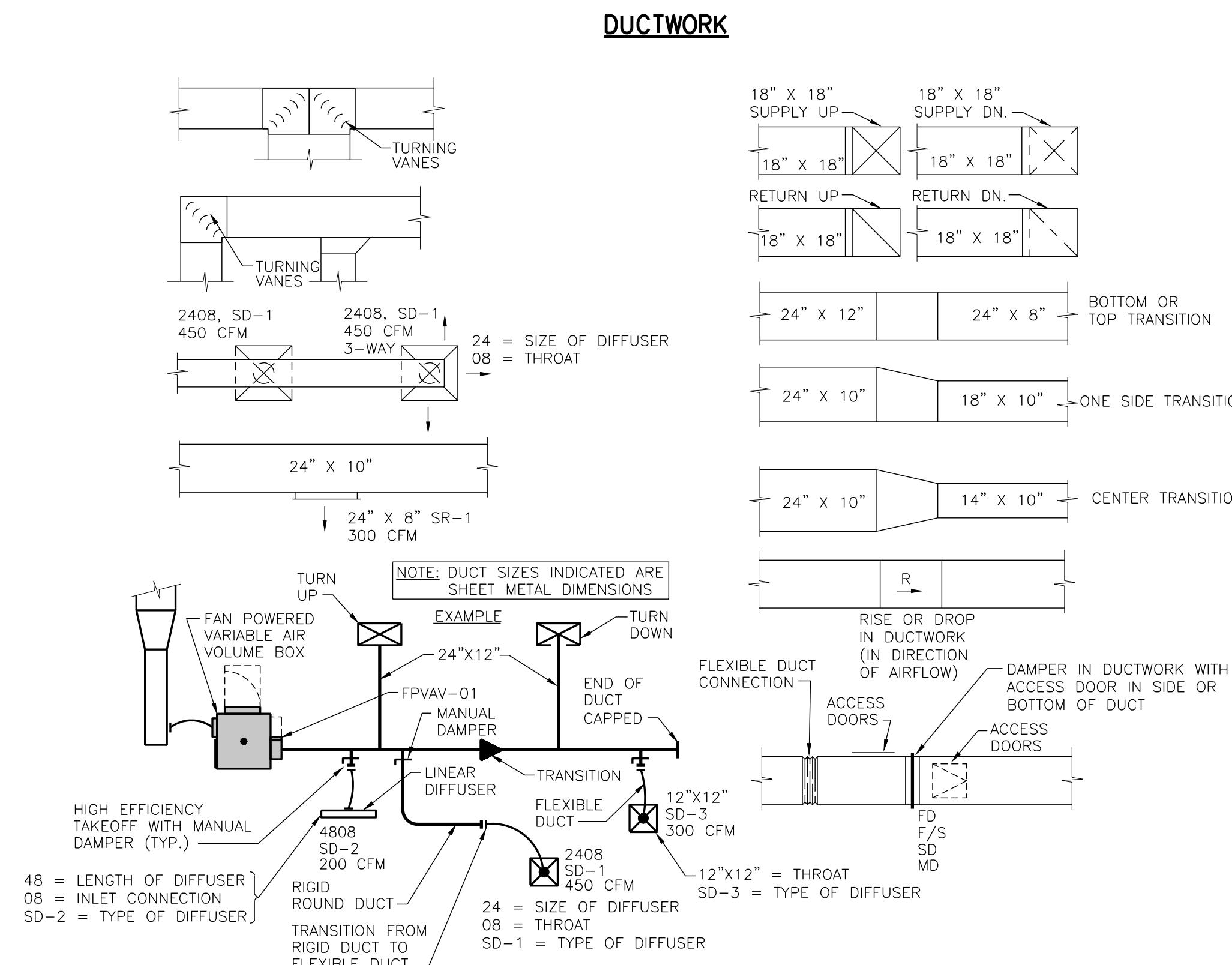
**ME-100**

14 OF 29 SHEETS

**smith & boucher**  
engineers  
25618 west 103rd St. olathe, ks 66061  
phone 913.345.2127 fax 913.345.0617  
project number 2219000



A	AMPS	ER	EXHAUST REGISTER	KWH	KILOWATT HOUR	REV	REVISION
A/C	AIR CONDITIONING	ETR	EXISTING TO REMAIN	LAT	LEAVING AIR TEMPERATURE	RG	RETURN GRILLE
AD	ACCESS DOOR	EWB	ENTERING WET BULB	LDB	LEAVING DRY BULB	RH	RELATIVE HUMIDITY
AFC	ABOVE FINISH CEILING	EWH	ELECTRIC WATER HEATER	LRA	LOCKED ROTOR AMPS	RHW	DOMESTIC RECIRCULATION HOT WATER
AFG	ABOVE FINISH GRADE	EXH	EXHAUST	LV	LOW VOLTAGE	RL	REFRIGERANT LIQUID
AFH	ABOVE FINISHED FLOOR	FACP	FIRE ALARM CONTROL PANEL	LWB	LEAVING WET BULB	RLA	RUNNING LOAD AMPS
ANN	ANNUNCIATOR CONTROL PANEL	FCO	FLOOR CLEANOUT	LWT	LEAVING WATER TEMPERATURE	RPM	REVOLUTIONS PER MINUTE
BD	BACKDRAFT DAMPER	FD	FLOOR DRAIN	MAU	MAKE UP AIR UNIT	RS	REFRIGERANT SUCTION
BKR	BREAKER	FLA	FULL LOAD AMPS	MBH	1000 BTU PER HOUR	SA	SUPPLY AIR
BOD	BOTTOM OF DUCT	FLR	FLOOR	MC	MECHANICAL CONTRACTOR	SAN	SANITARY
BOP	BOTTOM OF PIPE	FS	FLOOR SINK	MCA	MINIMUM CIRCUIT AMPACITY	SD	SUPPLY DIFFUSER, SMOKE DAMPER
BOS	BOTTOM OF STRUCTURE	G	GAS (NATURAL), GROUND	MFR	MANUFACTURER	SF	SQUARE FEET
BTU	BRITISH THERMAL UNIT	GCO	GRADE CLEANOUT	MLO	MAIN LUGS ONLY	SP	STATIC PRESSURE
C	CONDUIT	GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MTD	MOUNTED	SR	SUPPLY REGISTER
CB	CIRCUIT BREAKER	GND	GROUND	MU	MAKE UP	TSTAT	THERMOSTAT
CFM	CUBIC FEET PER MINUTE	GPM	GALLONS PER MINUTE	MUAF	MAKE UP AIR FAN	UL	UNDERWRITERS LABORATORIES INC.
CKT	CIRCUIT	HB	HOSE BIBB	MV	MIXING VALVE	UNO	UNLESS NOTED OTHERWISE
CO	CLEANOUT	HTG	HEATING	N/A	NOT APPLICABLE	V	VENT PIPE
CU	COPPER	HTR	HEATER	NF	INDICATES NON-FUSED DEVICE	VD	VOLUME DAMPER
CW	DOMESTIC COLD WATER	HW	DOMESTIC HOT WATER	NIC	NOT IN CONTRACT	VTR	VENT THROUGH ROOF
DDC	DIRECT DIGITAL CONTROL	HWR	HOT WATER RETURN	NL	NIGHT LIGHT	W	WIRE, WATT(S)
DN	DOWN	HWS	HOT WATER SUPPLY	OA	OUTSIDE AIR	W/	WITH
EA	EXHAUST AIR	KCMIL	1000 CIRCULAR MILS	PH	PHASE	W/O	WITHOUT
EAT	ENTERING AIR TEMPERATURE	KV	KILOVOLT	PNL	PANEL	WB	WET BULB
EC	ELECTRICAL CONTRACTOR	KVA	KILOVOLT AMPS	QTY	QUANTITY	WCO	WALL CLEANOUT
EF	EXHAUST FAN	KW	KILOWATT	RA	RETURN AIR	WP	WEATHERPROOF
EM	INDICATES EMERGENCY CIRCUIT						



**MECHANICAL AND ELECTRICAL SYMBOLS AND ABBREVIATIONS**

"SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED. REFER TO FLOOR PLANS FOR ALL SYMBOLS AND ABBREVIATIONS."

PROJECT NAME: Kennett Readiness Center  
AUTOCAD FILE LOCATION: X:\2219000\Drawings\01-2219000\_ME-100.dwg  
LAST CORRECTION BY: DATE: TIME:  
PLOTTED BY: DATE: TIME:





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OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

MISSOURI ARMY  
NATIONAL GUARD  
FACILITIES DIVISION

RENOVATE INTERIOR  
AND EXTERIOR

KENNETT  
READINESS CENTER  
1450 NORTH BY-PASS  
KENNETT, MO 63857

PROJECT # T2209-01

FACILITY # 8136313002

REVISION:  
DATE:  
REVISION:  
DATE:  
REVISION:  
DATE:

ISSUE DATE: January 30, 2023

CAD DWG FILE: ME-200.DWG  
DRAWN BY: JEB  
CHECKED BY: RJD  
DESIGNED BY: JEB

SHEET TITLE:

SITE PLAN -  
MECHANICAL AND  
ELECTRICAL

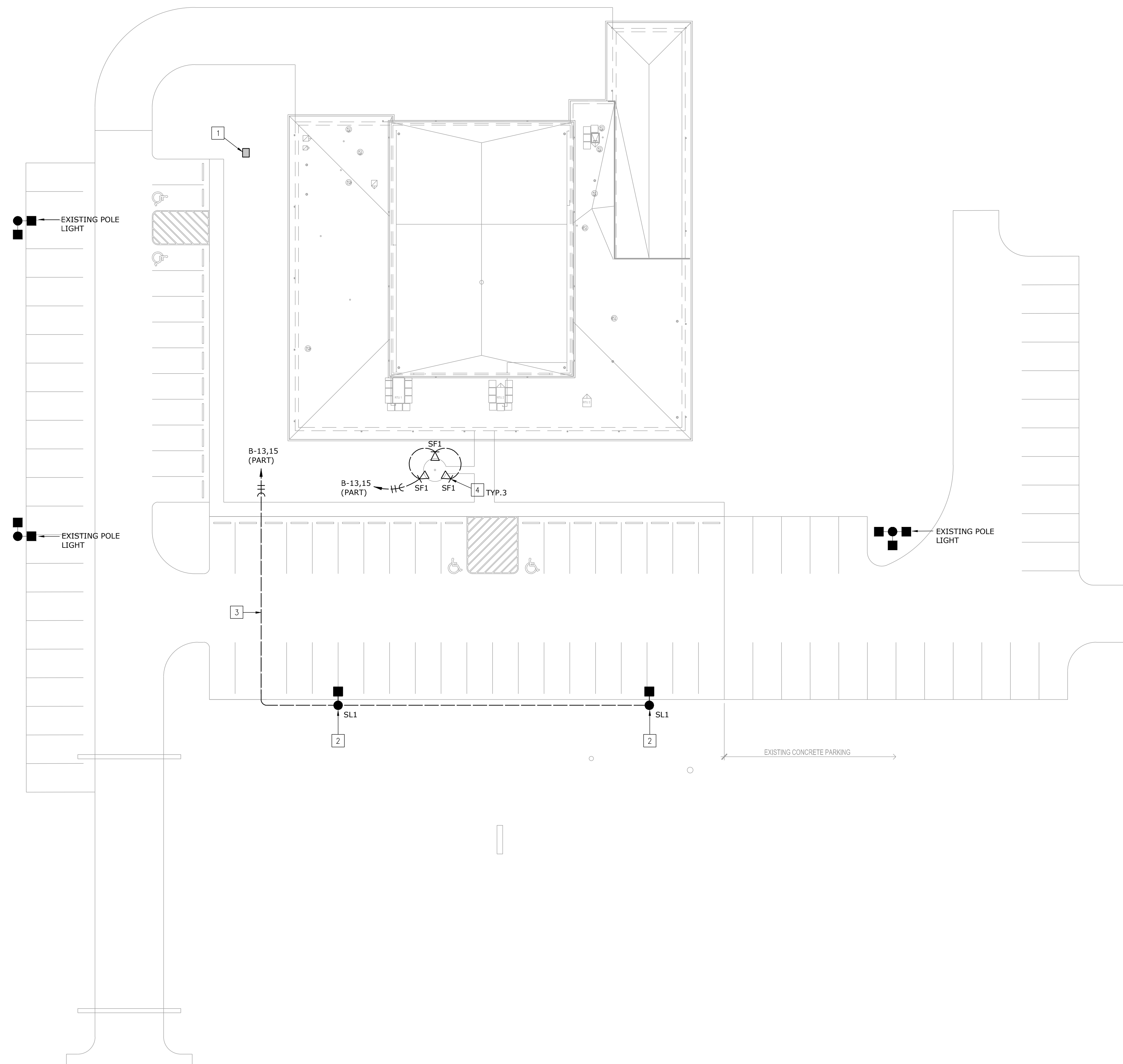
SHEET NUMBER:

ME-200

15 OF 29 SHEETS

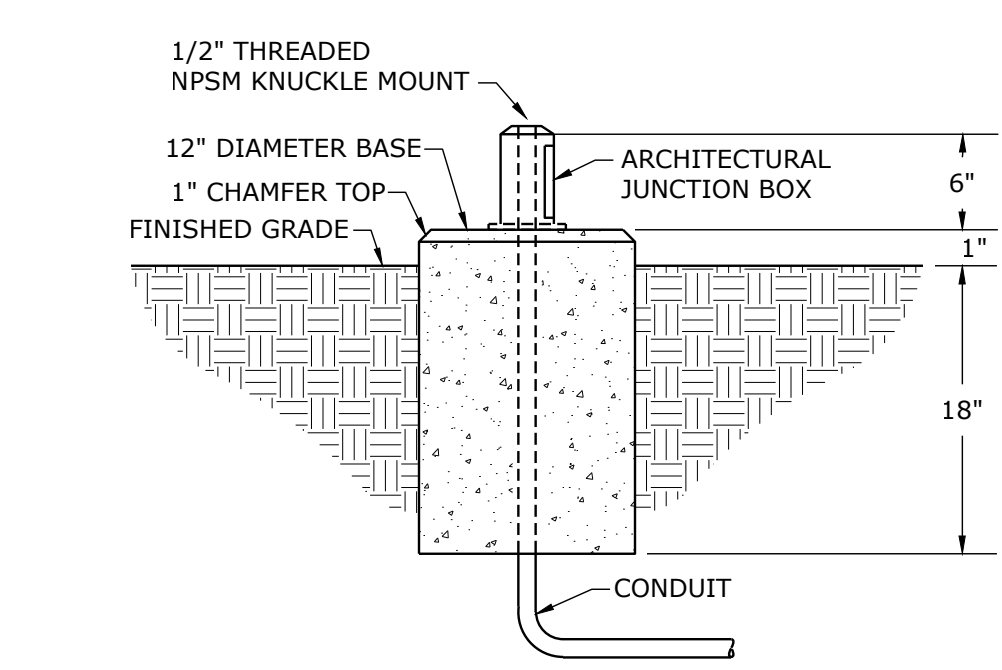
ELECTRICAL PLAN NOTES:

- ALTERNATE NO.2 - COMBINATION MANUAL TRANSFER SWITCH WITH GENERATOR QUICK CONNECTS, RE: DE-100 AND E-200.
- ALTERNATE NO.3 - PROVIDE POLE LIGHTS AND ALL REQUIRED CIRCUITING AND CONDUITS. (2)#8,#10G., 1" C. ENTIRE CIRCUIT. REFER TO POLE BASE DETAIL THIS SHEET.
- ALTERNATE NO.3 - PROVIDE 1" CONDUIT WITH PULL ROPE AND CAPPED AT EACH END BELOW PARKING LOT FOR FUTURE POLE LIGHTS AT SOUTH SIDE OF PARKING LOT.
- GROUND MOUNT FLOOD LIGHTS, INSTALL AT 120 DEG APART AND 6'-0" FROM FLAG POLE. PROVIDE FINAL AIMING OF FLOOD LIGHTS FOR FLAG ILLUMINATION. (2)#8,#10G., 1" C. ENTIRE CIRCUIT. REFER TO FLOOD LIGHT BASE DETAIL.



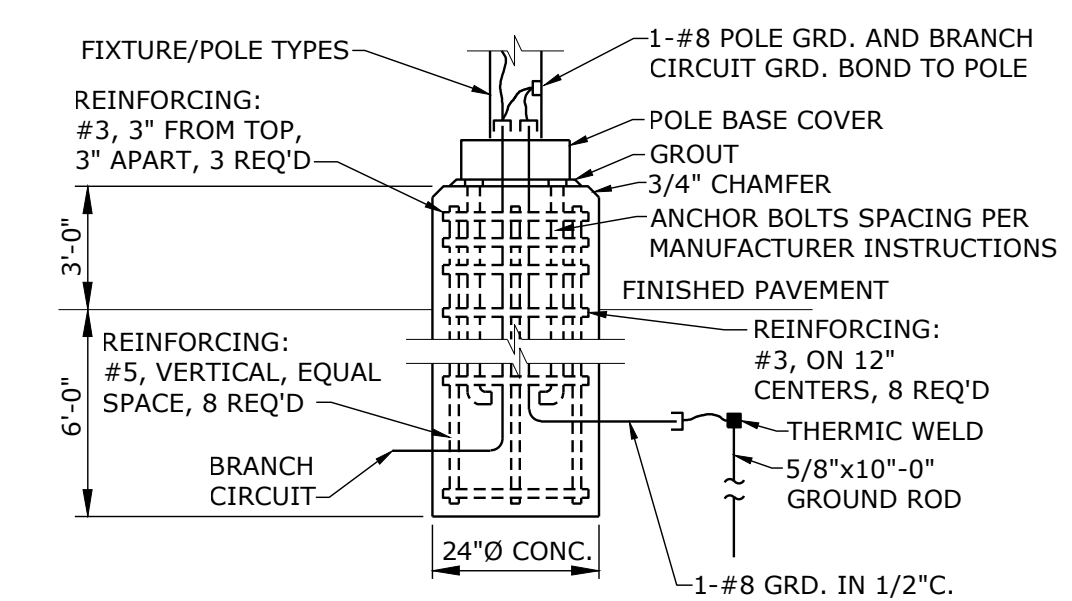
1 SITE PLAN - MECHANICAL AND ELECTRICAL

SCALE: 1" = 20'-0"



3 FLOOD LIGHT BASE DETAIL

NOT TO SCALE



2 POLE BASE DETAIL

NOT TO SCALE

- NOTES:
- CONCRETE BASES SHALL BE 4000 PSI COMPRESSIVE STRENGTH AIR ENTRAINED CONCRETE MINIMUM, CAST IN PLACE OR PRE-CAST. REINFORCING # TIES SHALL EXTEND FULL LENGTH OF BASES ST 12" O.C., WITH ADDITIONAL TIES AT TOP.
  - ANCHOR BOLTS AND BASE PLATE TEMPLATE SHALL BE PROVIDED BY LIGHTING POLE MANUFACTURER TO VENDOR FOR BASES PRIOR TO CONSTRUCTION.
  - INSTALL A CURVED LID JUNCTION BOX IN THE FACE OF ALL POLE BASES. SERVES AS A TERMINATION POINT FOR SECURITY CONDUIT AND A LOCATION TO MOUNT LOW VOLTAGE EQUIPMENT. J-BOX MANUFACTURED BY CARLON.

**smith & boucher**  
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project number 2219000

PROJECT NAME: Kennett Readiness Center  
AUTOCAD FILE LOCATION: X:\22\2219000\Drawings\01-2219000\_ME-200.dwg  
LAST CORRECTION BY: Jblockburn  
PLOTTED BY: Booty Charles

DATE: Friday, January 27, 2023 1:54:40 PM  
DATE: Friday, January 27, 2023 2:50:09 PM





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ISSUE DATE: January 30, 2023

CAD DWG FILE: ME-200.DWG  
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CHECKED BY: RJD  
DESIGNED BY: JEB

SHEET TITLE:

ROOF PLAN -  
MECHANICAL AND  
ELECTRICAL

SHEET NUMBER:

ME-201

16 OF 29 SHEETS

GENERAL NOTES:

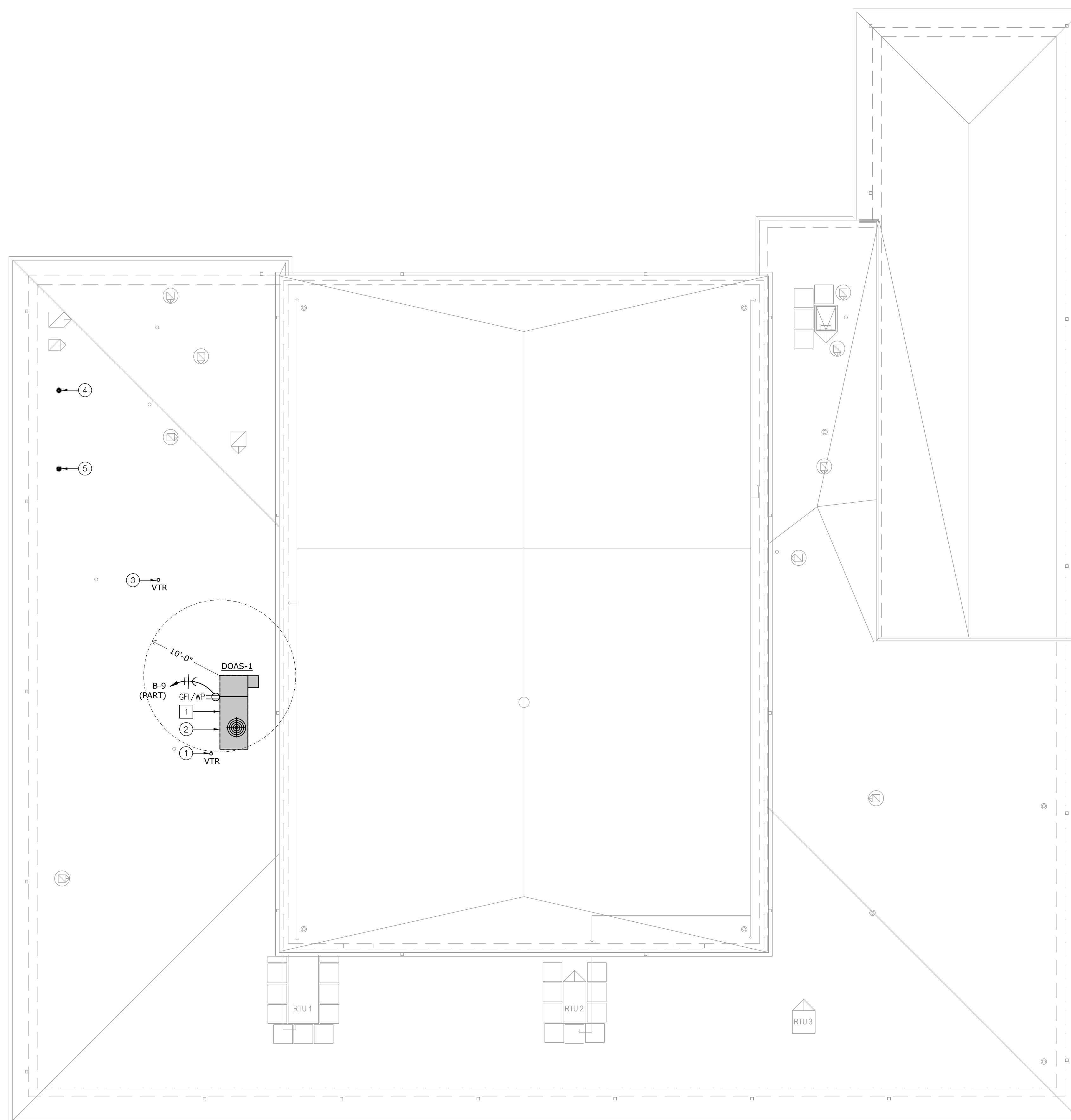
1. REFER TO GENERAL NOTES, SHEET M-100, P-100, E-100.

MECHANICAL PLAN NOTES:

- 1 UTILIZE EXISTING VENT THRU ROOF WHERE POSSIBLE. REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION AND DIRECTION. FIELD VERIFY LOCATION.
- 2 COORDINATE LOCATION OF DEDICATED OUTSIDE AIR UNIT WITH STRUCTURE. MAINTAIN 10 FEET SEPARATION BETWEEN ANY INTAKE OPENING AND ALL EXISTING EXHAUST OR VENTS. FIELD VERIFY EXACT LOCATION AND CONDITIONS.
- 3 UTILIZE EXISTING VENT THRU ROOF OPENING WHERE POSSIBLE FOR NEW LARGER VENT THRU ROOF. REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION AND DIRECTION. FIELD VERIFY LOCATION.
- 4 UTILIZE EXISTING FLUE ROOF OPENING FOR NEW ON FURNACE CONCENTRIC VENT. REFER TO HVAC PLANS FOR ADDITIONAL INFORMATION AND DIRECTION. FIELD VERIFY LOCATION.
- 5 UTILIZE EXISTING FLUE ROOF OPENING FOR NEW ON WATER HEATER CONCENTRIC VENT. REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION AND DIRECTION. FIELD VERIFY LOCATION.

ELECTRICAL PLAN NOTES:

- 1 REFER TO SCHEDULE FOR ELECTRICAL CONNECTION.



1 ROOF PLAN - MECHANICAL AND ELECTRICAL

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



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project number 2219000

PROJECT NAME: Kennett Readiness Center  
AUTOCAD FILE LOCATION: X:\22\221900\Drawings\01-2219000-ME-201.dwg  
LAST CORRECTION BY: Jblockburn Friday, January 27, 2023 1:09:49 PM  
PLOTTED BY: Booty Charles Friday, January 27, 2023 2:50:19 PM

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ISSUE DATE: January 30, 2023

CAD DWG FILE: ME-300.DWG  
DRAWN BY: JEB  
CHECKED BY: RJD  
DESIGNED BY: JEB

SHEET TITLE:  
**SCHEDULES -  
MECHANICAL AND  
ELECTRICAL**

SHEET NUMBER:

**ME-300**

17 OF 29 SHEETS

**smith & boucher**  
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project number 2219000

DEDICATED OUTSIDE AIR UNIT - DX COOLING / GAS HEAT		DESIGNATION	DOAS-1
UNIT	MANUFACTURER	AAON	
	MODEL NO.	RQ-005	
	NOMINAL SIZE (TONS)	5	
	UNIT WEIGHT	1250	
	SYSTEM TYPE	CV	
UNIT DATA	MOTOR HP	0.05	
	TOTAL EFFECTIVENESS (% WINTER / SUMMER)	49.4 / 50.8	
	CFM THROUGH WHEEL (OSA / EXHAUST)	1000/1050	
	OUTSIDE AIR (DB)	16	
	RETURN AIR (DB/WB)	70 / 60	
ENERGY WHEEL	WINTER	45.60 / 42.51	
	SUPPLY AIR (DB/WB)	41.62 / 41.18	
	EXHAUST AIR (DB/WB)	91.70 / 81.50	
	SUMMER	75 / 62	
	RETURN AIR (DB/WB)	81.81 / 72.01	
FAN DATA	SUPPLY	1000	
	E.S.P. (IN. WG.)	0.45	
	MOTOR HORSEPOWER (HP)	1	
	VFD	YES	
	EXHAUST	1120	
COOLING COIL	CFM	0.45	
	E.S.P. (IN. WC)	0.45	
	MOTOR HORSEPOWER (HP)	1	
	VFD	YES	
	SUPPLY CFM	1000	
DX COOLING	OA CFM	RE: ENERGY WHEEL	
	TOTAL COOLING CAPACITY (MBH)	60.89	
	SENSIBLE COOLING CAPACITY (MBH)	31.28	
	COOLING ENT. AIR (DB/WB)	81.53 / 71.67	
	COOLING COIL LVG. AIR (DB/WB)	51.51 / 51.37	
HGRH	COOLING UNIT LVG. AIR (DB/WB)	53.70 / 52.30	
	AMBIENT AIR (DB)	105	
	REFRIGERANT	410A	
	NO. OF COMPRESSORS	1	
	STAGES OF COOLING	1-VARIABLE CAPACITY SCROLL	
GAS HEATING	MINIMUM E.E.R @ AHRI	12.4	
	TYPE OF HOT GAS REHEAT	MODULATING	
	HOT GAS REHEAT CAPACITY (MBH)	22	
	HOT GAS REHEAT TEMPERATURE RISE (DB)	17.00	
	DISCHARGE TEMPERATURE (DB)	72	
FILTER (RA & OSA)	CFM	1000	
	GAS HEATING (MBH) INPUT/OUTPUT	60 / 48	
	TEMPERATURE RISE (DB)	45.00	
	DISCHARGE TEMPERATURE (DB)	91.60	
	STAGES OF HEATING / TOTAL TURNDOWN RATIO	MODULATING / 10:1	
SOUND POWER LEVELS (Hz)	THICKNESS	2"	
	EFFICIENCY	MERV 13	
	DISCHARGE	83, 81, 84, 78, 72, 70, 66, 61	
	OCTAVE BANDS 63, 125, 250, 500, 1000, 2000, 4000, 8000		
	RETURN	80, 78, 75, 68, 66, 64, 60, 54	
ACCESSORIES	OCTAVE BANDS 63, 125, 250, 500, 1000, 2000, 4000, 8000		
	DISCONNECT	INTEGRAL	
	SMOKE DETECTOR SHUTDOWN	NOT REQUIRED	
	POWERED RECEPTACLE	YES	
	DEMAND CONTROL VENTILATION	NO	
ELECTRICAL CONNECTION	ECONOMIZER OPERATION	DIFF. ENTHALPY	
	MINIMUM CIRCUIT AMPACITY	36	
	PANEL & CIRCUIT	MDP (NOTE 5)	
	WIRE & CONDUIT	(3)#6, #10G, 3/4" C.	
	VOLTAGE/PHASE	208/3	
REMARKS	OVERCURRENT DEVICE	50A-3P CB	
	DISCONNECT	INTEGRAL TO UNIT	
	STARTER	VFDs	
	VFD	VFDs	
	CONTROL SEQUENCE	NOTE 2	
REFERENCE DRAWING/DETAIL	ME-200, M-100, M-200		
REMARKS	NOTE 1,3,4		

- NOTES:
- 1: PROVIDE SPRING ISOLATION CURB WITH A MINIMUM OF 2 INCH STATIC DEFLECTION. PROVIDE BASE CURB HEIGHT AS REQUIRED FOR BASE CURB TO EXTEND MINIMUM 12" ABOVE FINAL ROOFING MEMBRANE. COORDINATE REQUIRED HEIGHT OF BASE CURB WITH ROOFING INSULATION. REFER TO ARCHITECTURAL DRAWINGS.
  - 2: PROVIDE UNIT WITH FACTORY CONTROLLERS FOR ELECTRICAL AND GAS.
  - 3: PROVIDE THROUGH THE BASE CONNECTIONS FOR ELECTRICAL AND GAS.
  - 4: PROVIDE ALL OTHER ACCESSORIES AS SCHEDULED AND SPECIFIED.
  - 5: CIRCUIT TO EXISTING PANELS 'MDP', LOCATED IN BOLIER ROOM. RELOCATE THREE 20A-1P RECEPTACLE CIRCUITS TO NEW PANEL 'B' AS DETERMINED TO SERVE DOAS-1 OUT OF ONE OF THE THREE 'MDP' PANELS.

FURNACE SCHEDULE		DESIGNATION	F-1
AHU	MANUFACTURER	BOSCH	
	MODEL	BGH96M120D5A BMAC4860DNTF	
	CFM	1875	
	OUTSIDE AIR CFM	200	
	EXTERNAL STATIC PRES. (IN. W.G.)	0.56	
COOLING	MOTOR HORSEPOWER	1 HP	
	ENT. AIR (DB/WB)	80/67	
	TOTAL COOLING CAP (MBH)	55.5	
	SENSIBLE COOLING CAP (MBH)	43.3	
	STAGE OF COOLING	2	
HEATING	HEATING INPUT (MBH)	110	
	HEATING OUTPUT (MBH)	106	
	HEATING TEMPERATURE RISE (DB)	57	
	STAGES OF HEATING	2	
	MINIMUM AFUE (%)	96	
FILTER	FILTER TYPE	MERV 13	
	SIZE	--	
	VOLTAGE/PHASE	120/1	
	MCA	12	
	PANEL AND CIRCUIT	MDP (NOTE 5)	
ELEC. DATA	WIRE AND CONDUIT	(2)#12, #12G, 1/2" C.	
	OVERCURRENT DEVICE	20A-1P CB	
	DISCONNECT	NOTE 2	
	REFERENCE DRAWING/DETAIL	M100	
	REMARKS	NOTE 1,3,4	

HEAT PUMP SCHEDULE		DESIGNATION	HP-2
UNIT DATA	MANUFACTURER	BOSCH	
	MODEL NO.	BOVA-60HDN1-M18M	
	NOMINAL TONNAGE	5	
	MINIMUM S.E.E.R. @ AHRI	16	
	AMBIENT AIR TEMP (°F)	95	
ELEC. DATA	NO COMPRESSORS / STAGES	1 / VARIABLE	
	VOLTAGE/PHASE	208/1	
	MCA	36	
	PANEL AND CIRCUIT	MDP (NOTE 5)	
	WIRE AND CONDUIT	(2)#6, #10G, 3/4" C.	
REMARKS	OVERCURRENT DEVICE	50A-2P CB	
	DISCONNECT	60A/2P/240V/NF/3R	
	REFERENCE DRAWING/DETAIL	M-100	
	REMARKS	NOTE 4	

- NOTES:
- 1: PROVIDE CONDENSATE NEUTRALIZATION KIT. PROVIDE POLYPROPYLENE INTAKE AND FLEUE PIPING WITH CONCENTRIC THRU THE ROOF TERMINATION. SIZE, ROUTE, AND SLOPE AS REQUIRED BY MANUFACTURER. INSULATE ALL INTAKE AND FLEUE PIPING AS REQUIRED BY MANUFACTURER.
  - 2: PROVIDE MOTOR RATED TOGGLE SWITCH.
  - 3: PROVIDE WITH 7-DAY PROGRAMMABLE, TOUCH SCREEN THERMOSTAT.
  - 4: PROVIDE AND INSTALL REFRIGERANT LINE SETS PER MANUFACTURER'S INSTRUCTIONS.
  - 5: CIRCUIT TO EXISTING PANELS 'MDP', LOCATED IN BOLIER ROOM. RELOCATE THREE 20A-1P RECEPTACLE CIRCUITS TO NEW PANEL 'B' AS DETERMINED TO SERVE HP-2 AND F-1 OUT OF ONE OF THE THREE 'MDP' PANELS.

SERVICE	DUCT SHAPE	SMACNA REQUIREMENTS			OTHER REQUIREMENTS
		CLASSIFICATION	SEAL CLASS	LEAKAGE CLASS	
SUPPLY AIR DUCTS CONNECTED TO DEDICATED OUTDOOR	RECTANGULAR	2" WG POSITIVE	B	12	
AIR HANDLING UNITS	ROUND	4" WG POSITIVE (EXPOSED)	B	3	
SUPPLY AIR DUCTS CONNECT TO FURNACES	RECTANGULAR	2" WG POSITIVE	B	12 - RECTANGULAR	1/2" .3LB DENSITY LINER
RETURN AIR AND TRANSFER AIR BOOT	OR ROUND			3 - ROUND	
TRANSFER AIR DUCTWORK	RECTANGULAR	2" WG NEGATIVE	B - RECTANGULAR	12 - RECTANGULAR	
RETURN AIR DUCTS CONNECTED TO FURNACES	OR ROUND		A - ROUND	3 - ROUND	
EXHAUST DUCTS CONNECTED TO DEDICATED OUTDOOR	RECTANGULAR	2" WG NEGATIVE	B - RECTANGULAR	12 - RECTANGULAR	
AIR HANDLING UNITS	OR ROUND		A - ROUND	3 - ROUND	
EXHAUST DUCTS TO THE INLET OF THE FAN	RECTANGULAR	2" WG NEGATIVE	B - RECTANGULAR	12 - RECTANGULAR	
	OR ROUND		A - ROUND	3 - ROUND	

- NOTES:
- 1: SEE DUCTWORK INSULATION SCHEDULE FOR REQUIREMENTS ON DUCT INSULATION

DUCTWORK INSULATION SCHEDULE		SERVICE	INSULATION
CONCEALED DUCTWORK AS FOLLOWS:			
SUPPLY AIR (ROUND AND SQUARE)			1-1/2", 1 LB. RIGID FIBERGLASS BLANKET, BAPPOR BARRIER FACED.
EXHAUST AIR (ROUND AND SQUARE)			WITH HEAVY DUTY FOIL-SCRIM-KRAFT FACING.
SUPPLY AIR AND EXHAUST AIR TO DEDICATED OUTDOOR AIR HANDLING UNITS (NOTE 2)			

- NOTES:
- 1: SEE DUCTWORK SCHEDULE FOR ITEMS THAT ARE TO BE LINED.
  - 2: THE RECTANGULAR SUPPLY AND EXHAUST AIR DUCT EXPOSED IN THE LOCKER ROOM FROM THE DEDICATED OUTDOOR AIR UNIT TO ABOVE THE WOMENS LATRENE

GRILLE, REGISTER & DIFFUSER SCHEDULE							
PLAN MARK	MANUFACTURER MODEL NUMBER	SERVICE	MOUNT TYPE	VOLUME DAMPER	MATERIAL	COLOR	REMARKS
SD-1	TITUS OMNI-AA-24x24	SUPPLY	LAY-IN	NO	ALUMINUM	WHITE	-
SD-2	TITUS OMNI-24x24	SUPPLY	LAY-IN	NO	STEEL	WHITE	-
SD-3	TITUS OMNI-12x12	SUPPLY	LAY-IN	NO	STEEL	WHITE	-
SD-4	TITUS TDCA-AA-24x24	SUPPLY	SURFACE	NO	ALUMINUM	WHITE	-
RG-1	TITUS 355RL-24x24	RETURN	LAY-IN	NO	STEEL	WHITE	-
RG-2	TITUS 355RL-12x12	RETURN	LAY-IN	NO	STEEL	WHITE	-
EG-1	TITUS 355FL-24x24	EXHAUST	LAY-IN	NO	ALUMINUM	WHITE	-
EG-2	TITUS 355RL-12x12	EXHAUST	LAY-IN	NO	STEEL	WHITE	-
TG-1	TITUS 355FL-24x12	TRANSFER	LAY-IN	NO	ALUMINUM	WHITE	-

- NOTES:
- 1: PROVIDE FULL SIZE STEEL RETURN PLENUM ON TOP OF GRILLE FOR DIRECT DUCT CONNECTION TO SIDE.

AIR CONDITIONING UNIT SCHEDULE		MANUFACTURER	MITSUBISHI
INDOOR UNIT			
DESIGNATION	AHU-1		
MODEL	PKA-A12LA		
UNIT TYPE	WALL MOUNT		
CFM	455		
EXTERNAL S.P. (IN. W.C.)	--		
REFRIGERANT	R410A		
RATED COOLING CAP (BTUH)	12,000		
SEER AT AHRI	21		
RATED HEATING CAP (BTUH)	13,000		
HSPF	--		
MCA	--		
VOLTAGE/PHASE	208/1		
PANEL AND CIRCUIT	NOTE 1		
WIRE AND CONDUIT	(3)#12, #12G, 1/2" C.		
OVERCURRENT DEVICE	NOTE 1		
DISCONNECT	NOTE 1		
OUTDOOR UNIT			
DESIGNATION	HP-1		
MODEL NO.	PUY-A12NKA7		
AMBIENT AIR TEMP (DEG F.)	95		
MCA	14		
VOLTAGE/PHASE	208/1		
PANEL AND CIRCUIT	NOTE 4		
WIRE AND CONDUIT	(2)#12, #12G, 1/2" C.		
OVERCURRENT DEVICE	20A-2P CB		
DISCONNECT	30A/2P/240V/NF/3R		
REFERENCE DRAWING/DETAIL	M-100		
REMARKS	NOTE 2, 3		

- NOTES:
- 1: INDOOR UNIT CIRCUITED THROUGH OUTDOOR UNIT.
  - 2: FOR OUTDOOR UNIT, PROVIDE WALL MOUNT SUPPORT KIT. MOUNT UNIT TO WALL MOUNT WITH NEOPRENE ISOLATION PADS WITH A MINIMUM OF 0.25 INCH STATIC DEFLECTION. PROVIDE LOW AMBIENT WIND BAFFLE.
  - 3: PROVIDE AND INSTALL REFRIGERANT LINE SETS PER MANUFACTURER'S INSTRUCTIONS.
  - 4: UTILIZE EXISTING DEMO'ED PTAC UNIT CIRCUIT TO SERVE NEW OUTDOOR UNIT. FIELD VERIFY EXISTING CONDITIONS AND WIRE SIZE. PROVIDE WITH OCPD AS INDICATED IN SCHEDULE IF EXISTING DIFFERENT.

THE MANUFACTURERS LISTED SHALL BE THE BASIS OF DESIGN. REFER TO THE PROJECT SPECIFICATION FOR ACCEPTABLE ALTERNATIVE MANUFACTURERS.





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ME-301

18 OF 29 SHEETS

**PLUMBING FIXTURE SCHEDULE**

MARK	MFR./MODEL	DESCRIPTION	FITTINGS		PIPING CONNECTIONS				
			MANUFACTURER/MODEL	DESCRIPTION	NOTE	CW	HW	SAN	VENT
WC1	AMERICAN STANDARD AFWALL 2257.101  WADE  CHURCH 9500C	WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, WALL MOUNTED FLUSH VALVE BOWL WITH TOP SPUD AND FLAT BOLT COVERS, 1.28 GALLON SIPHON JET FLUSHING ACTION.  PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING IN CHASE.  SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRATED BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.	SLOAN ECOS 8111-1.28	SENSOR ACTIVATED, EXPOSED WATER CLOSET SINGLE FLUSH VALVE, 1.28 GPF, CHROME PLATED, FLUSH OVERRIDE BUTTON, BATTERY POWERED, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1 1/2" TOP SPUD.  PROVIDE WALL AND SPUD FLANGES.	5	1-1/4"	---	4"	2"
WC2	AMERICAN STANDARD AFWALL 2257.101  WADE  CHURCH 9500C	ADA COMPLIANT WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, WALL MOUNTED FLUSH VALVE BOWL WITH TOP SPUD AND FLAT BOLT COVERS, 1.28 GALLON SIPHON JET FLUSHING ACTION.  PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING IN CHASE.  SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRATED BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.	SLOAN ECOS 8111-1.28	SENSOR ACTIVATED, EXPOSED WATER CLOSET SINGLE FLUSH VALVE, 1.28 GPF, CHROME PLATED, FLUSH OVERRIDE BUTTON, BATTERY POWERED, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1 1/2" TOP SPUD.  PROVIDE WALL AND SPUD FLANGES.	5	1-1/4"	---	4"	2"
WC3	AMERICAN STANDARD MADERA 3461.001  CHURCH 9500C	ADA COMPLIANT WATER CLOSET: WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNTED FLUSH VALVE BOWL WITH TOP SPUD AND FLAT BOLT COVERS, 1.28 GALLON SIPHON JET FLUSHING ACTION.  SEAT: SOLID PLASTIC, OPEN FRONT, WHITE, ELONGATED BOWL, INTEGRATED BUMPERS, EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.	SLOAN ECOS 8111-1.28	SENSOR ACTIVATED, EXPOSED WATER CLOSET SINGLE FLUSH VALVE, 1.28 GPF, CHROME PLATED, FLUSH OVERRIDE BUTTON, BATTERY POWERED, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1 1/2" TOP SPUD.  PROVIDE WALL AND SPUD FLANGES.	5	1-1/4"	---	4"	2"
U1	AMERICAN STANDARD TRIMBROOK 6561.017  WADE	ADA COMPLIANT WHITE VITREOUS CHINA WALL HUNG URINAL, 3/4" TOP SPUD, 0.5 GALLON SIPHON JET FLUSHING ACTION. MOUNT TOP OF RIM PER ARCHITECTURAL PLANS.  PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING IN CHASE.	SLOAN ECOS 8186-0.125	SENSOR ACTIVATED, EXPOSED URINAL FLUSH VALVE, 0.125 GPF, CHROME PLATED, FLUSH OVERRIDE BUTTON, BATTERY POWERED, VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 3/4" TOP SPUD.  PROVIDE SPUD FLANGES.	5	3/4"	---	2"	1-1/2"
L1	AMERICAN STANDARD LUCERNE 0355.012  WADE	ADA COMPLIANT LAVATORY: WALL-HUNG, WHITE VITREOUS CHINA, FRONT OVERFLOW, 4 CENTER HOLES, GRID STAINER, TAILPIECE.  PROVIDE CARRIER AS REQUIRED TO SUIT APPLICATION FOR MOUNTING.	AMERICAN STANDARD MONTERREY 5502.145  LEONARD	ADA COMPLIANT FAUCET: VANDAL RESISTANT LEVER HANDLES, 2-HOLE, 4" CENTERS, 0.5 GPM, CHROME FINISH.  THERMOSTATIC MIXING VALVE	2,3,4	1/2"	1/2"	2"	1-1/2"
DF1	ELKAY LZSTL8WS	ADA COMPLIANT WATER FOUNTAIN: BI-LEVEL, LEFT HAND HIGH, LEFT SIDE BOTTLE FILLING STATION, FILTERED, 8 GPH, STAINLESS STEEL, CANE APRON.	---	---	3	1/2"	---	1-1/2"	1-1/4"
HB1	WOODFORD B24-AL	ANTI-SIPHON WALL FAUCET WITH FLUSH MOUNT ANODIZED ALUMINUM BOX WITH DOOR ASSEMBLY, VACUUM BREAKER, LOOSE TEE KEY.	---	---	---	1/2"	---	---	---
WH1	WOODFORD 65P-12	FREEZE-PROOF WALL HYDRANT, AUTOMATIC DRAINING, HOSE-CONNECTION ANTI SIPHON VACUUM BREAKER, LOOSE KEY HANDLE.	---	---	---	3/4"	---	---	---
SH1	SYMMONS H901S-15	SURFACE MOUNTED SHOWER SYSTEM, THROUGH WALL PIPING CONFIGURATION, SOAP DISH, PRESSURE BALANCING MIXING VALVE WITH SERVICE STOPS, MANUAL SHUT-OFF AND LEVER HANDLE, SHOWER HEAD, 1.5 GPM FLOW RESTRICTOR, STAINLESS STEEL COVERING WITH SLOPED TOP.	---	---	1	1/2"	1/2"	---	---
SH2	SYMMONS H902S-15	ADA COMPLIANT SURFACE MOUNTED SHOWER SYSTEM, THROUGH WALL PIPING CONFIGURATION, SOAP DISH, PRESSURE BALANCING MIXING VALVE WITH SERVICE STOPS, MANUAL SHUT-OFF AND LEVER HANDLE, DIVERTER, SHOWER HEAD, 1.5 GPM FLOW RESTRICTOR, SLIDE BAR/CRADLE WITH HAND SHOWER AND 60" HOSE, STAINLESS STEEL COVERING WITH SLOPED TOP.	---	---	1	1/2"	1/2"	---	---

- NOTES:  
1: REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.  
2: PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN.  
3: PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS.  
4: INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS.  
5: PROVIDE CAULK AROUND FIXTURE CONNECTION TO FLOOR/WALL. COLOR BY ARCHITECT.

**PIPE INSULATION SCHEDULE - PLUMBING**

SERVICE	PIPE SIZE	INSULATION
DOMESTIC COLD WATER	1/2" - 2"	1/2" FIBERGLASS, ASJ
EXPOSED FIXTURE WASTETRAPS AND DOMESTIC HOT WATER AT HANDICAPPED ACCESSIBLE SINKS AND LAVATORIES	ALL	TRUBRO LAV AGUARD MOLDED PROTECTIVE PIPE COVER OVER 1/2" FIBERGLASS INSULATION
DOMESTIC HOT WATER RECIRCULATING HOT WATER	ALL	1" FIBERGLASS, ASJ

- NOTES:  
1: FOR ALL EXPOSED PIPING, PROVIDE PAINTABLE PVC JACKET ON PIPING AND FITTINGS ( INCLUDES MECHANICAL SPACES).

**DRAIN SCHEDULE**

MARK	MANUFACTURER/ MODEL	DESCRIPTION
FD1	WADE W-1100-5	CAST IRON DRAIN WITH ADJUSTABLE TOP AND 5" NICKEL BRASS STRAINER WITH VANDAL RESISTANT SCREWS. SEE PLAN FOR OUTLET SIZE.
FD2	WADE W-1100-6-TSD	CAST IRON DRAIN WITH ADJUSTABLE TOP AND 6" NICKEL BRASS STRAINER WITH VANDAL RESISTANT SCREWS. SEE PLAN FOR OUTLET SIZE. PROVIDE WITH PROSET TRAP GUARD BY PROVENT SYSTEMS INC.

**THERMOSTATIC MIXING VALVE**

DESIGNATION	TMV-1
MANUFACTURER	LEONARD
MODEL	TM-520B-LF-DT
SERVICE	MEN/WOMEN LATRINE
MIN GPM	1
PEAK DEMAND GPM	24.6
SYSTEM MAX PRESSURE DROP	10
OUTLET TEMP. (°F)	105
REFERENCE DRAWING/DETAIL	ME-302, P-100
REMARKS	---

**DOMESTIC HOT WATER PUMP SCHEDULE**

DESIGNATION	HWP-1
ASSOCIATED WATER HEATER	DWH-1
LOCATION	MECH EQUIP 112
UNIT DATA	
MANUFACTURER	BELL & GOSSETT
MODEL NO.	NBF-25
PUMP TYPE	INLINE
GPM	2
PUMP HEAD (FT.)	12
MOTOR HORSEPOWER	125 WATTS
ELECTRICAL/CONTROL DATA	
PANEL & CIRCUIT	B-11 (PART)
WIRE & CONDUIT	(2)#12,#12G., 1/2"C.
VOLTAGE/PHASE	120/1
OVERCURRENT DEVICE	20A-1P CB
DISCONNECT	NOTE 2
STARTER	NO
COMBINATION STARTER	NO
CONTROL	AQUASTAT, NOTE 2
REFERENCE DRAWING/DETAIL	ME-302, P-100
REMARKS	---

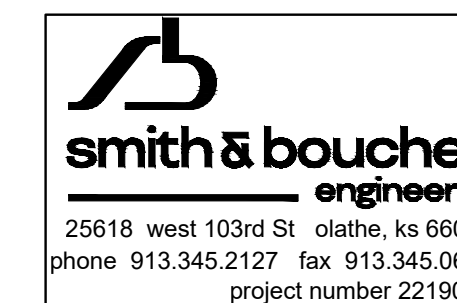
- NOTES:  
1: CIRCUIT WITH DOMESTIC WATER HEATER 'DWH-1'.  
2: PROVIDE MOTOR RATED TOGGLE SWITCH AT 60" AFF ON WALL ADJACENT TO PUMP FOR DISCONNECT MEANS AND OWNER MANUAL ON/OFF USE DURING PERIODS OF DEPLOYMENT. LABEL SWITCH PLATE WITH "HWP-1".

**DOMESTIC WATER HEATER - GAS**

DESIGNATION	DWH-1
MANUFACTURER	A. O. SMITH
LOCATION	MECH EQUIP 112
UNIT DATA	
MODEL	BTH-250
CAPACITY (GALLONS)	250
RECOVERY @ 100°F RISE (GPH)	175
OUTLET TEMP. (°F)	140
INPUT (BTUH)	150,000
VOLTAGE/MCA	120V / 5AMPS
ELEC/CONTROL	
PANEL & CIRCUIT	B-2 (PART)
WIRE & CONDUIT	(2)#12,#12G., 1/2"C.
OVERCURRENT DEVICE	20A-1P CB
DISCONNECT	NOTE 2
REFERENCE DRAWING/DETAIL	ME-302, P-100
REMARKS	NOTE 3,4

- NOTES:  
1: CIRCUIT WITHOT WATER RECIRCULATION PUMP 'HWP-1'.  
2: PROVIDE MOTOR RATED TOGGLE SWITCH ADJACENT TO WATER HEATER FOR DISCONNECT MEANS.  
3: FURNISH WITH CONDENSATE NEUTRALIZATION KIT.  
4: PROVIDE VENT EXHAUST PIPING PER MANUFACTURER'S REQUIREMENTS.

THE MANUFACTURERS LISTED SHALL BE THE BASIS OF DESIGN. REFER TO THE PROJECT SPECIFICATION FOR ACCEPTABLE ALTERNATIVE MANUFACTURERS.







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KENNETT  
READINESS CENTER  
1450 NORTH BY-PASS  
KENNETT, MO 63857

PROJECT # T2209-01

FACILITY # 8136313002

REVISION:  
DATE:  
REVISION:  
DATE:  
REVISION:  
DATE:  
ISSUE DATE: January 30, 2023

CAD DWG FILE: ME-302.DWG  
DRAWN BY: JEB  
CHECKED BY: RJD  
DESIGNED BY: JEB

SHEET TITLE:  
DETAILS -  
MECHANICAL AND  
ELECTRICAL

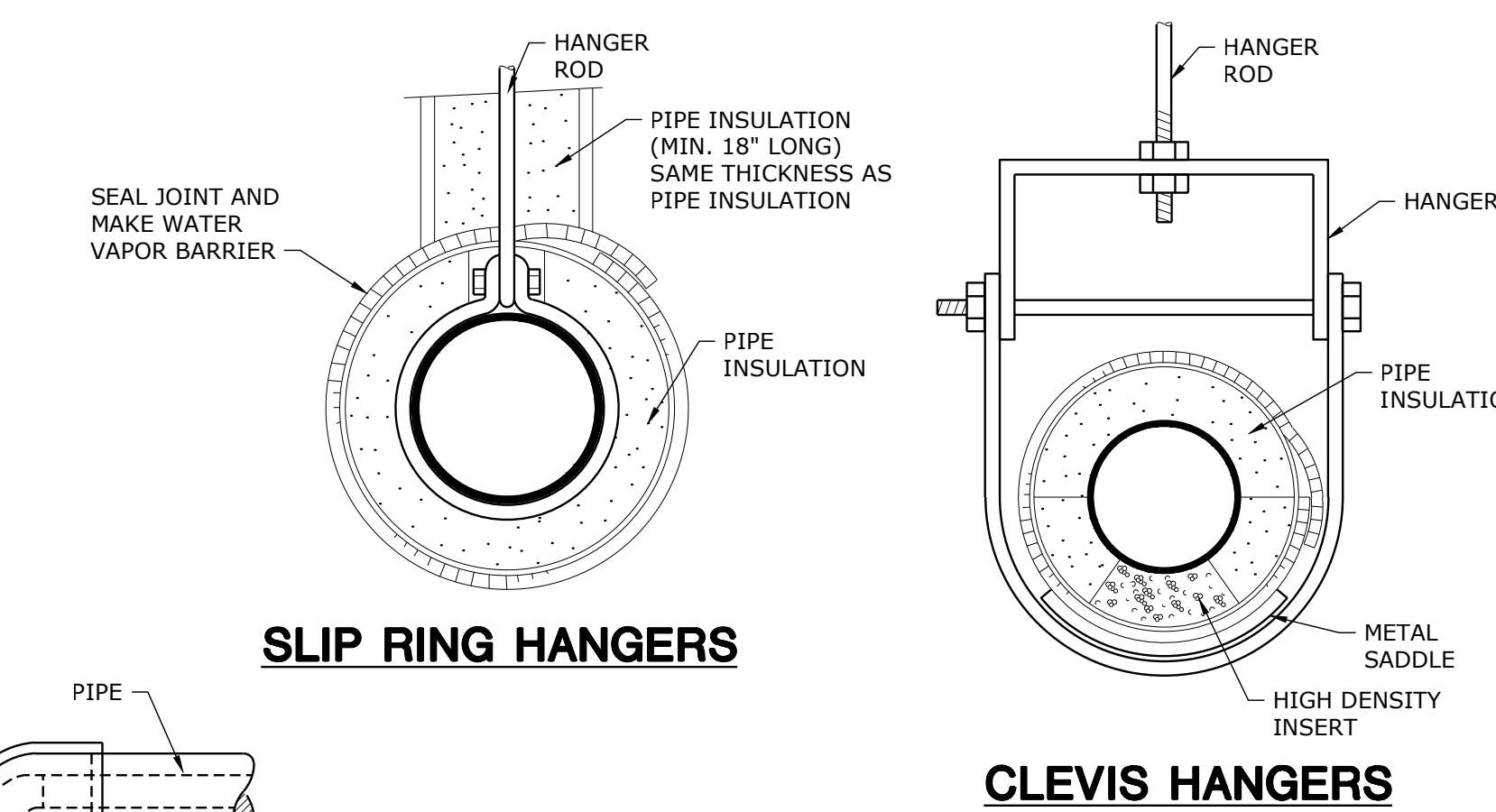
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ME-302

19 OF 29 SHEETS

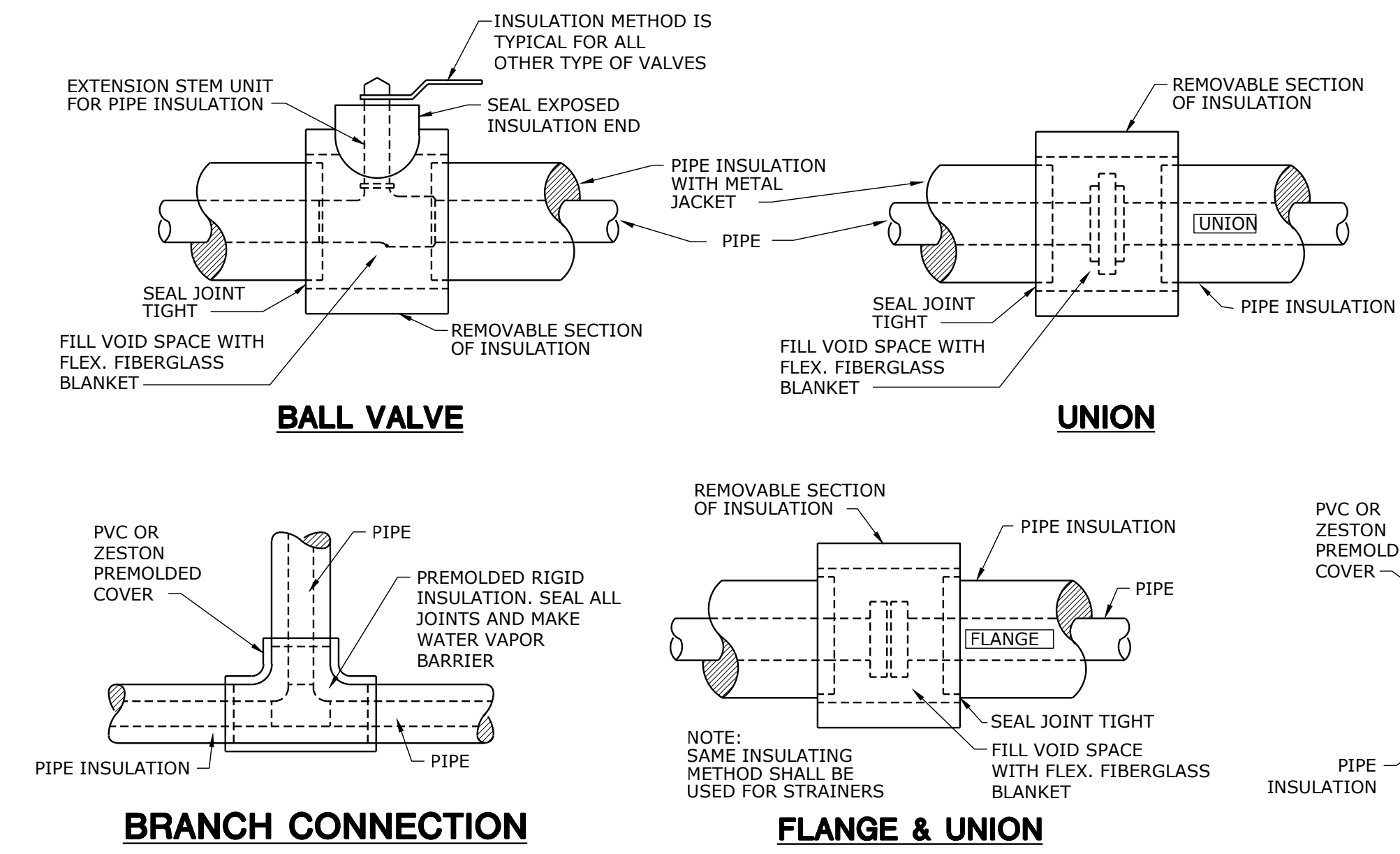
**smith & boucher**  
engineers

25618 west 103rd St. olathe, ks 66061  
phone 913.345.2127 fax 913.345.0617  
project number 2219000



SLIP RING HANGERS

CLEVIS HANGERS



BALL VALVE

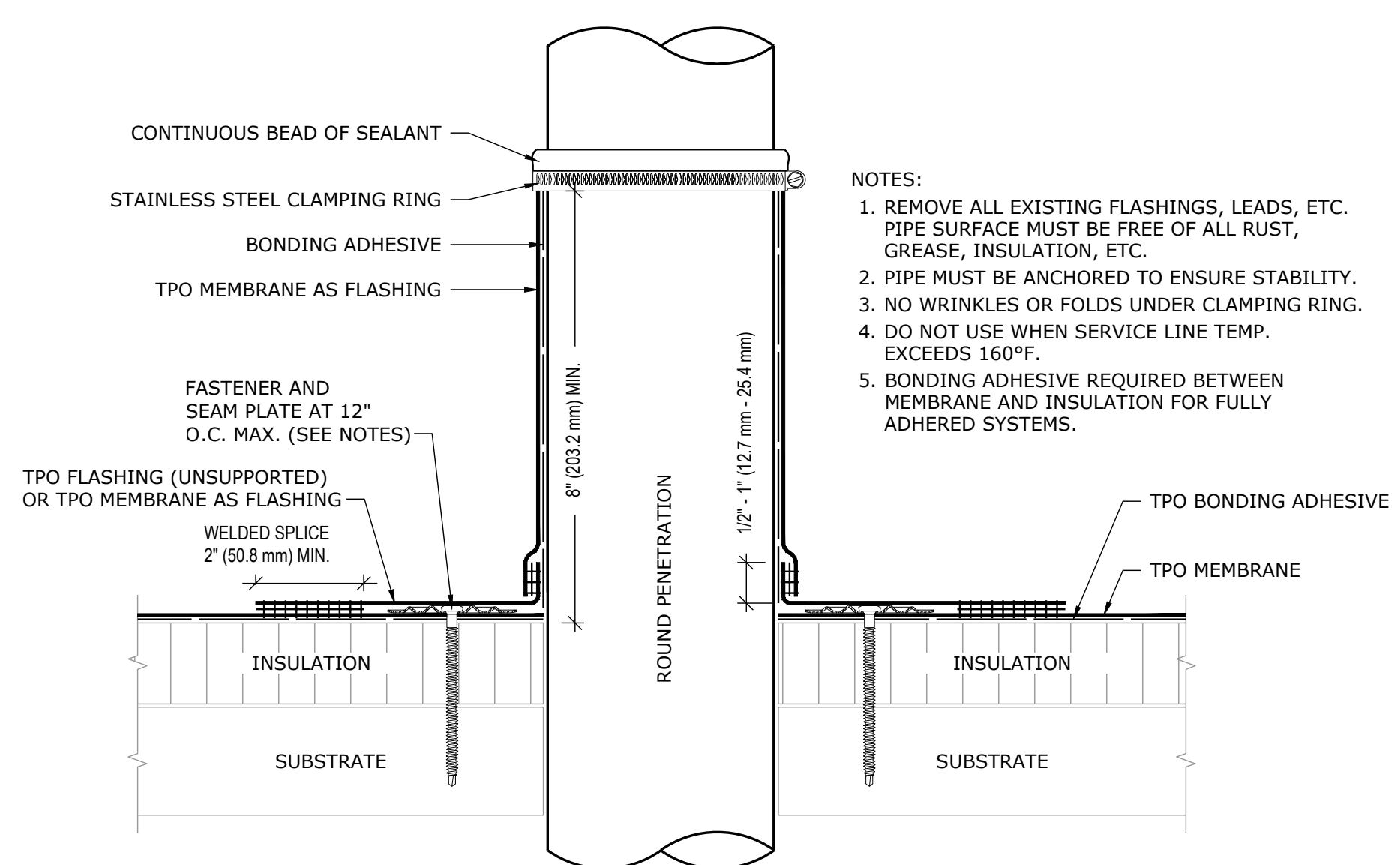
UNION

BRANCH CONNECTION

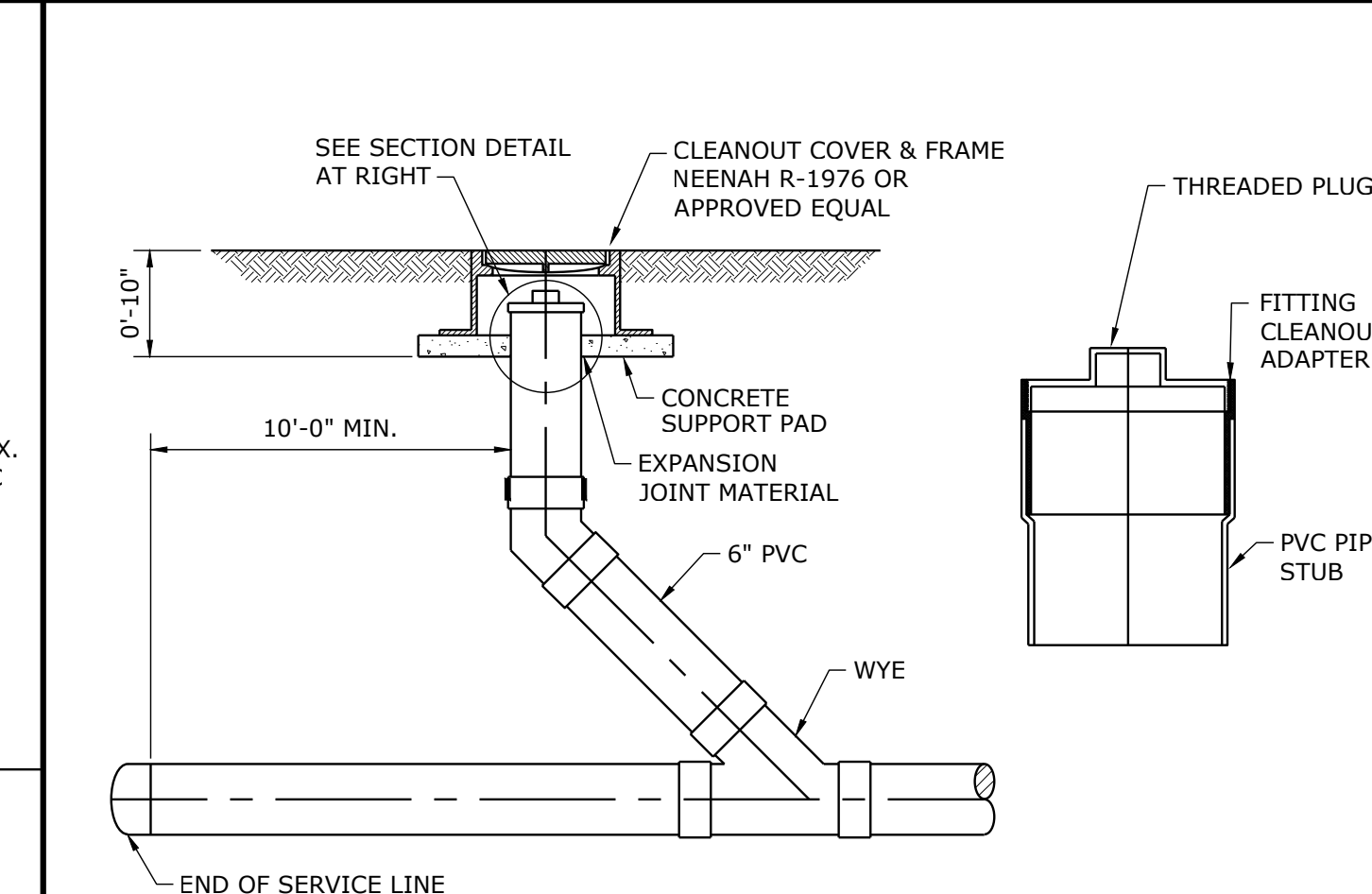
FLANGE & UNION

ELBOWS

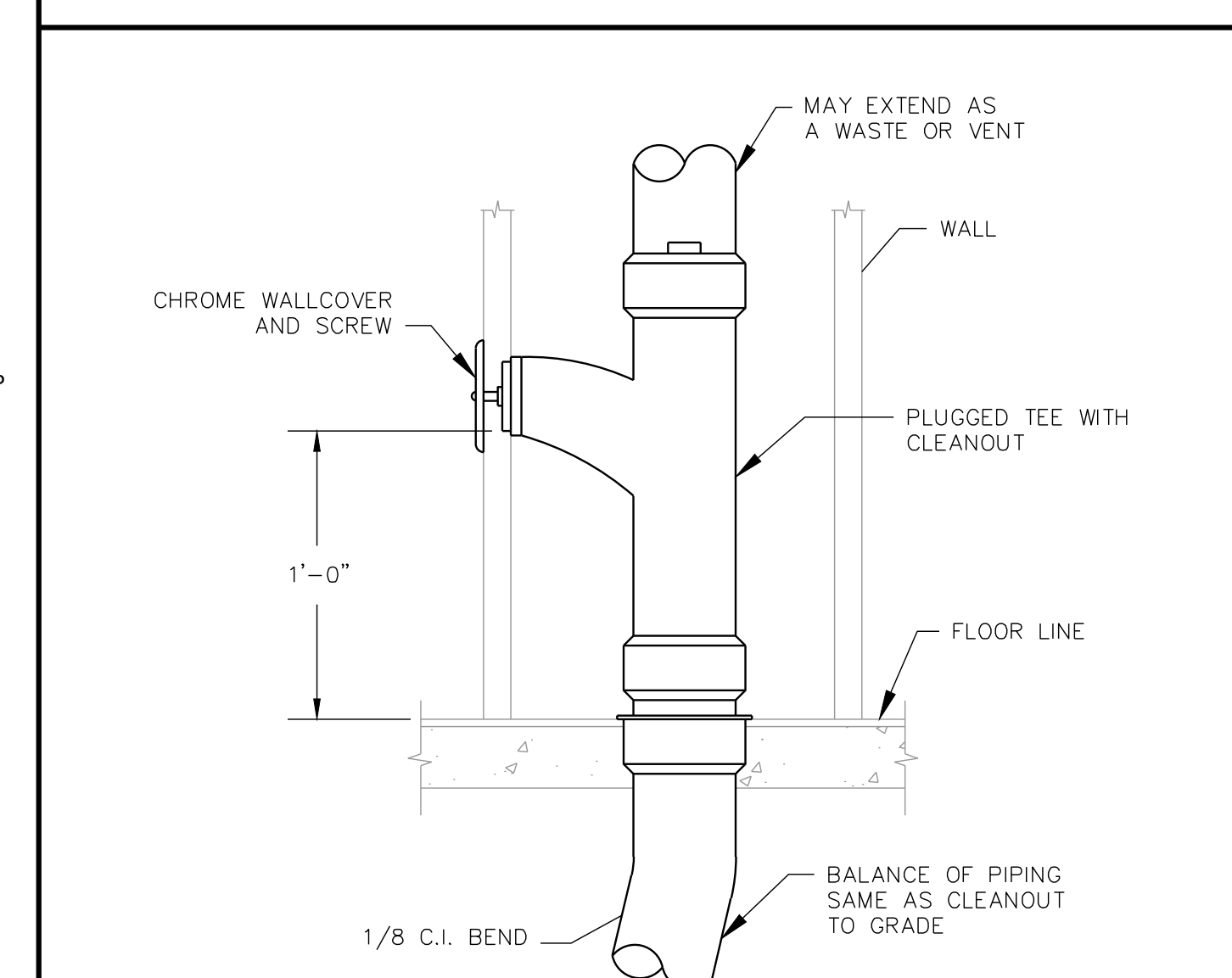
PIPE INSULATION DETAILS  
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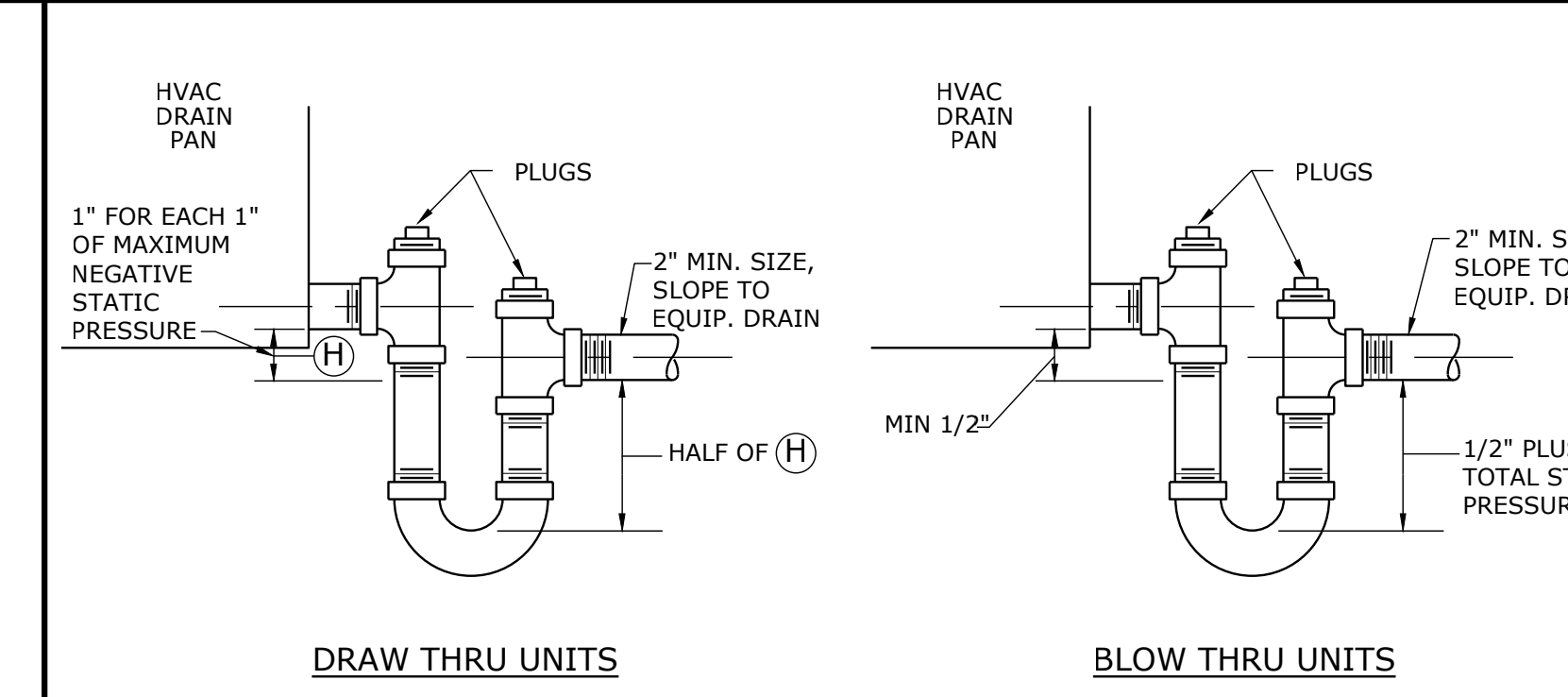
ROOF PENETRATION DETAIL  
NOT TO SCALE



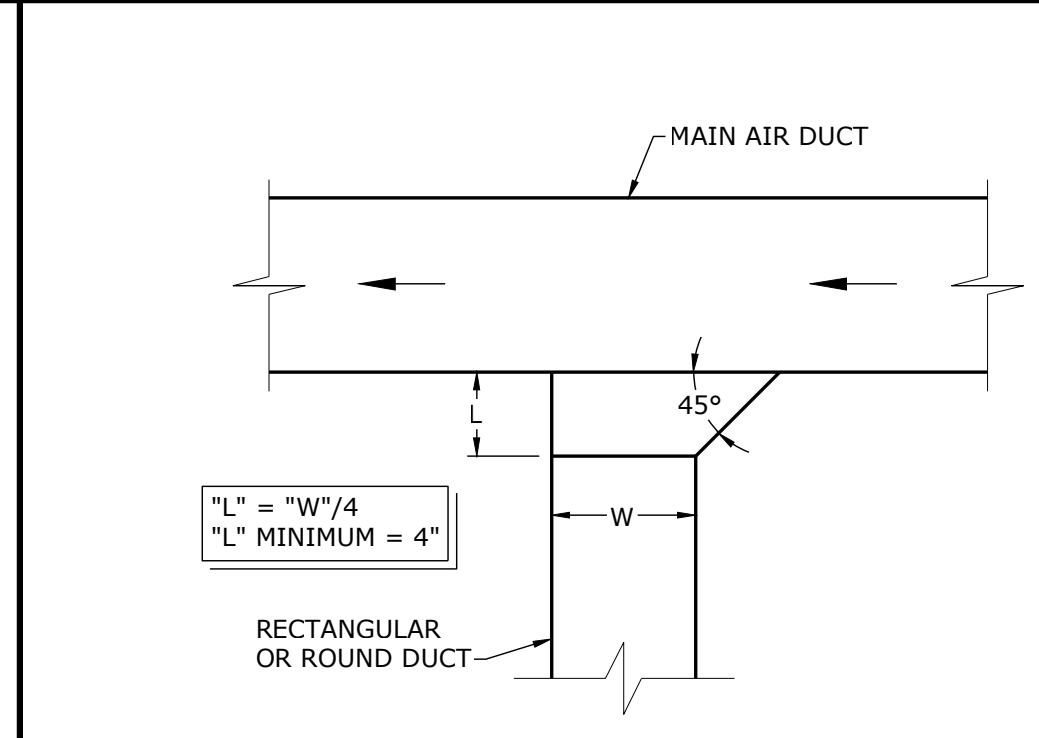
FLOOR CLEANOUT DETAIL (FCO)  
NO SCALE



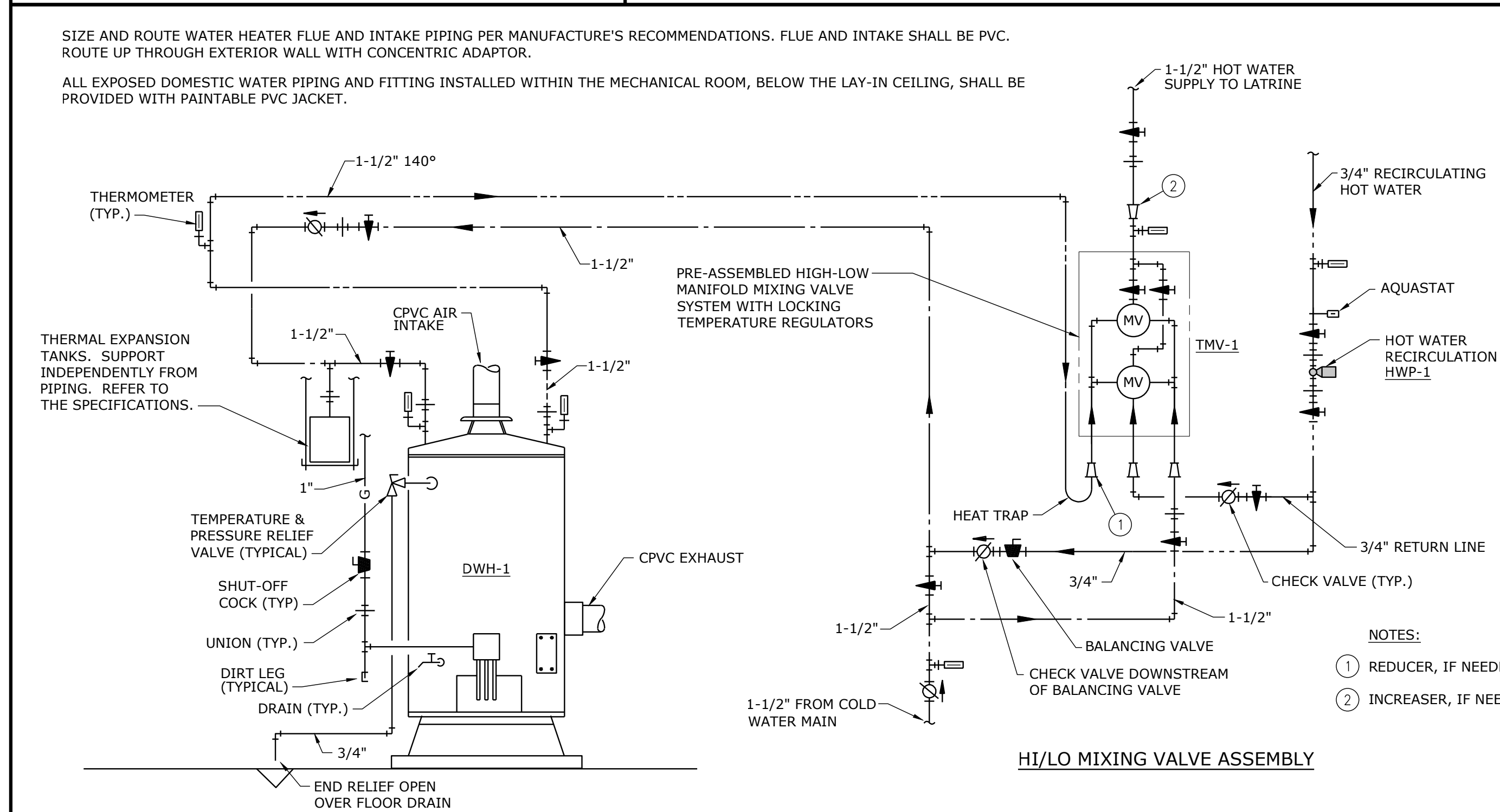
WALL CLEANOUT DETAIL (WCO)  
NOT TO SCALE



CONDENSATE TRAP DRAIN DETAIL  
NOT TO SCALE



TYPICAL BRANCH DUCT TAKEOFF  
NOT TO SCALE



GAS WATER HEATER / THERMOSTATIC MIXING VALVE / RECIRCULATION PUMP DETAIL  
NOT TO SCALE

PROJECT NAME: Kennett Readiness Center  
AUTOCAD FILE LOCATION: X:\22\2219000\Drawings\01-2219000\_ME-302.dwg  
LAST CORRECTION BY: Jblockburn  
PLOTTED BY: Booty Charles





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PROJECT # T2209-01

FACILITY # 8136313002

REVISION: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: January 30, 2023

CAD DWG FILE: DM-100.DWG  
DRAWN BY: JEB  
CHECKED BY: RJD  
DESIGNED BY: JEB

SHEET TITLE:

DEMOLITION  
HVAC -  
FLOOR PLAN

SHEET NUMBER:

DM-100

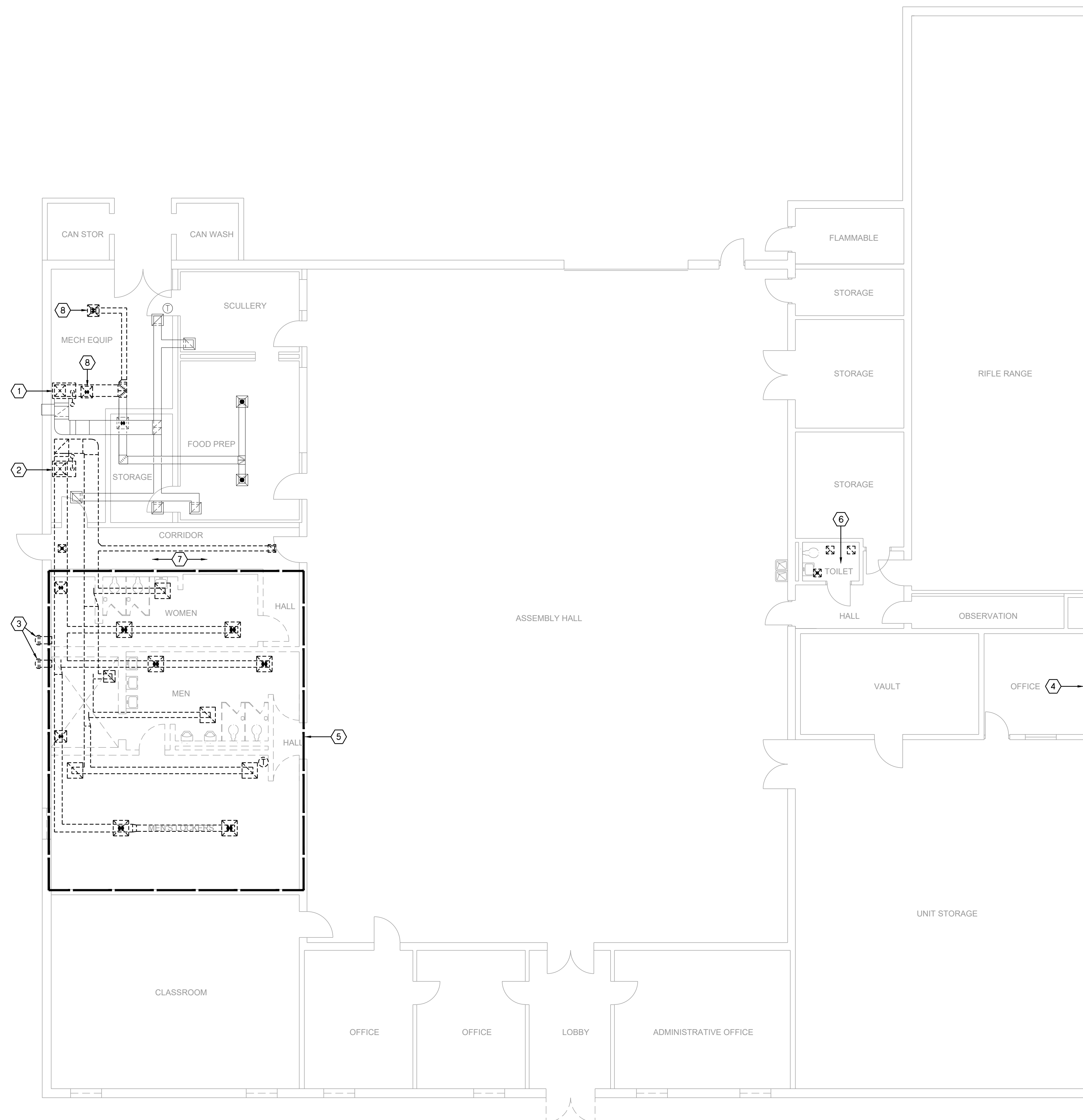
20 OF 29 SHEETS

GENERAL DEMOLITION NOTES:

- UNLESS OTHERWISE NOTED, SERVICES AND EQUIPMENT SHOWN WITH BOLD DASHED LINES ARE TO BE DEMOLISHED. SERVICES AND EQUIPMENT SHOWN WITH SOLID HALF TONE LINE WEIGHT ARE TO REMAIN IN PLACE.
- THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND FROM VISUAL SITE INSPECTION AND ARE NOT TO BE CONSIDERED "AS BUILT" CONDITIONS. THE INFORMATION SHOWN IS TO ESTABLISH THE EXTENT OF THE SCOPE OF WORK. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE EXTENT OF THE WORK INDICATED.
- PATCH AND REPAIR ANY INFRASTRUCTURE THAT IS TO REMAIN WHERE ANY SERVICES ARE REMOVED UNLESS NOTED OTHERWISE. DISCONNECT AND REMOVE ALL WIRING, CABLING, RACEWAY AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF EQUIPMENT INDICATED TO BE REMOVED.
- WHERE MECHANICAL AND ELECTRICAL FIXTURES OR EQUIPMENT ARE REMOVED, CAP ALL UNUSED CONDUIT, WIRING AND PIPING BEHIND THE FLOOR LINE OR WALL LINE TO FACILITATE THE RESTORATION OF FINISH.
- PROVIDE FOR THE CONTINUITY OF ALL REMAINING SERVICES, SYSTEMS, AND CIRCUITS. RELOCATE AND RECONNECT ANY MECHANICAL AND ELECTRICAL FACILITIES THAT MUST BE RELOCATED IN ORDER TO ACCOMPLISH THE REMODELING SHOWN IN THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS.

DEMOLITION PLAN NOTES:

- DEMO FURNACE, INDICATED DUCT, GAS CONNECTION TO UNIT, AND FLUE AS SHOWN. SALVAGE FLUE PENETRATION FOR REUSE FOR NEW FURNACE VENT. SALVAGE GAS FOR NEW GAS CONNECTION.
- DEMO FURNACE, ASSOCIATED DUCT DIFFUSERS, GAS PIPING CONNECTION, FLUE, AND THERMOSTAT AS SHOWN. SALVAGE FLUE PENETRATION FOR REUSE FOR NEW WATER HEATER VENT.
- DEMO SIDE WALL EXHAUST FAN, ASSOCIATED DUCT AND EXHAUST GRILLE. COORDINATE EXTERIOR WALL PATCHING WITH GENERAL CONTRACTOR.
- DEMO THRU THE WALL HEATING/COOLING UNIT. COORDINATE EXTERIOR WALL PATCHING WITH GENERAL CONTRACTOR.
- PROVIDE COMPLETE DEMOLITION OF ALL HVAC DUCT, SUPPLY AIR DIFFUSERS, AND RETURN AIR GRILLES IN LOCKER ROOM AND SHOWER/RESTROOM.
- DEMO SUPPLY AIR DIFFUSERS, RETURN AIR AND EXHAUST AIR GRILLES WITHIN ROOM, TO ACCOMMODATE NEW LAY-IN CEILING, SALVAGING EXISTING BRANCH DUCTS FOR RECONNECTION TO. REFER TO NEW WORK PLANS.
- DEMO SUPPLY AIR DIFFUSER AND RETURN AIR GRILLES, ASSOCIATED DUCT WITHIN CORRIDOR TO ACCOMMODATE NEW WORK IN LATRINES. REFER TO NEW WORK PLANS.
- DEMO AND SALVAGE SUPPLY AIR DIFFUSER ASSOCIATED WITH SUPPLY AIR DUCT SHOWN FOR DEMOLITION. REINSTALL DIFFUSER IN APPROXIMATE SAME LOCATION WITH NEW DUCT PER NEW WORK PLANS.



1 DEMOLITION FLOOR PLAN - HVAC

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



**smith & boucher**  
engineers

25618 west 103rd St. olathe, ks 66061  
phone 913.345.2127 fax 913.345.0617  
project number 2219000

10  
8  
6  
4  
2  
0  
2  
SCALE: 1/4" = 1'-0"  
feet

PROJECT NAME: Kennett Readiness Center  
AUTOCAD FILE LOCATION: X:\22\22190\2219000\Drawings\03-2219000\_DW-100.dwg  
LAST CORRECTION BY: Jblockburn  
PLOTTED BY: Booty Charles  
DATE: Wednesday, December 14, 2022 6:50:55 AM  
TIME: Friday, January 27, 2023 2:51:08 PM





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ISSUE DATE: January 30, 2023

CAD DWG FILE: M-100.DWG  
DRAWN BY: JEB  
CHECKED BY: RJD  
DESIGNED BY: JEB

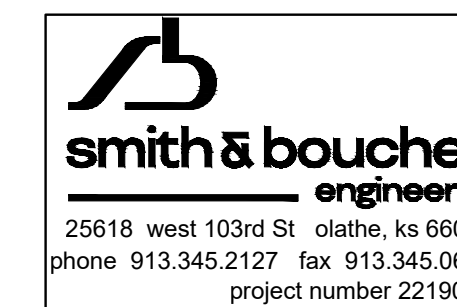
SHEET TITLE:

HVAC -  
FLOOR PLAN

SHEET NUMBER:

M-100

21 OF 29 SHEETS



GENERAL NOTES:

- ALL DUCTWORK AND PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT INCLUDE ALL OFFSETS, DROPS, AND RISES. CAREFULLY COORDINATE DUCT AND PIPE ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES, EQUIPMENT ACCESSIBILITY, DESIRED CEILING HEIGHTS, AND AESTHETICS. THE CONTRACTOR SHALL INCLUDE ANY NEEDED OFFSETS AND CHANGES OF DIRECTION IN THE BID PRICING.
- COORDINATE ALL DUCT PENETRATIONS WITH STRUCTURAL PRIOR TO ROOF PENETRATIONS.
- FURNISH ALL EXPOSED DUCTWORK IN FINISHED SPACES WITH PAINTABLE FINISH.
- DUCT SIZES SHOWN ARE SHEET METAL DIMENSIONS. WHERE DUCT LINER IS REQUIRED, DUCT SIZES ARE NOT REQUIRED TO BE INCREASED TO ACCOUNT FOR LINER.

PLAN NOTES:

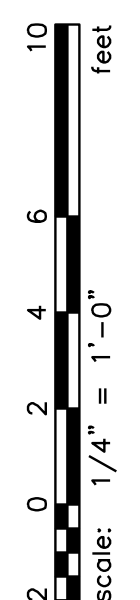
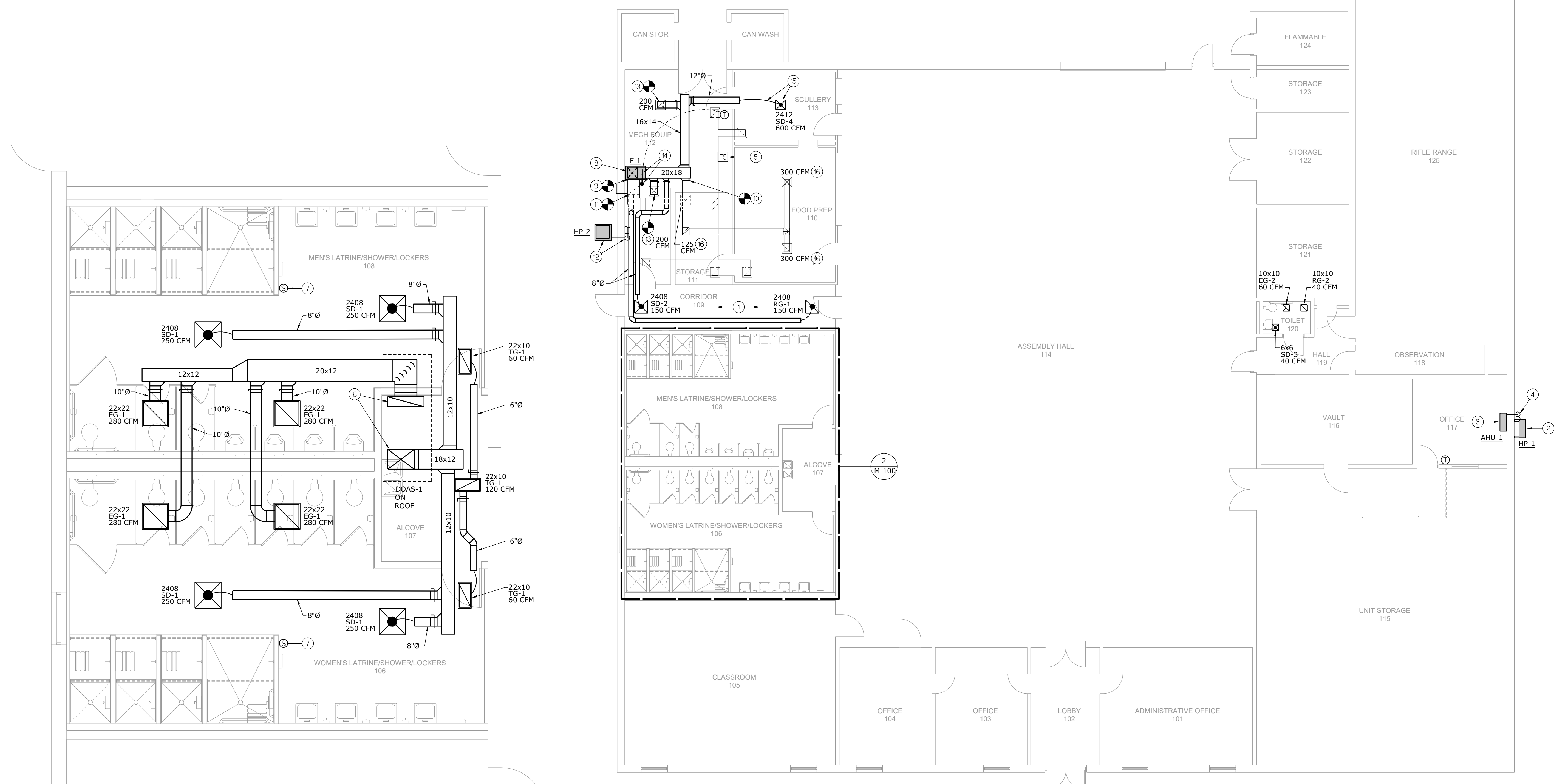
- PROVIDE FURNACE CONCENTRIC VENT, THRU DEMO'ED FLUE ROOF PENETRATIN. SIZE AND INSTALL PER MANUFACTURER'S REQUIREMENTS. COORDINATE WITH ROOFING CONTRACTOR.
- PROVIDE NEW SUPPLY AIR DIFFUSER AND DUCT ABOVE EXISTING CEILING. FIELD DETERMINE EXACT CONDITIONS. INTENT IS TO NOT DEMO AND REPAIR CEILING.
- EXISTING SUPPLY AIR DIFFUSER, BALANCE TO AIRFLOW AS SHOWN.

PLAN NOTES:

- DOAS AVERAGING TEMP SENSOR, RE: M-200.
- TRANSITION SUPPLY AIR DUCT DOWN TO UNIT INLET AS REQUIRED. PROVIDE WITH FLEXIBLE DUCT CONNECTION.
- CONNECT EXISTING RETURN AIR DUCT TO NEW FURNACE. PROVIDE WITH 1" FILTER RACK. TRANSITION AS REQUIRED. PROVIDE WITH FLEXIBLE DUCT CONNECTION.
- CONNECT EXISTING SUPPLY AIR DUCT TO NEW SUPPLY AIR MAIN DUCT.
- CONNECT NEW RETURN AIR BRANCH DUCT TO EXISTING RETURN AIR MAIN.
- PROVIDE 4" CONCRETE PAD FOR HEAT PUMP. PROVIDE REFRIGERANT LINE SET TO FURNACE. SIZE LINE SET PER MANUFACTURER'S REQUIREMENTS.
- REUSE AND CONNECT TO SALVAGED SUPPLY AIR DIFFUSE. MATCH EXISTING DUCT SIZE. BALANCE DIFFUSER TO AIRFLOW AS SHOWN.

PLAN NOTES:

- PROVIDE NEW SUPPLY AIR DIFFUSER AND RETURN AIR GRILLE, ASSOCIATED DUCT ABOVE EXISTING LAY-IN CEILING.
- WALL MOUNT HEAT PUMP JUST BELOW EXTERIOR SOFFIT. MAINTAIN REQUIRED CLEARANCE FROM TOP OF UNIT TO BELOW SOFFIT.
- WALL MOUNT EVAPORATOR UNIT. PROVIDE REFRIGERANT LINE SET TO OUTDOOR UNIT. PROVIDE 3/4" CONDENSATE DRAIN TO EXTERIOR, DISCHARGE 12" ABOVE GRADE.
- 3/4" CONDENSATE DRAIN DOWN TO 12" ABOVE GRADE. SECURE TO EXTERIOR. PROVIDE WITH BUG SCREEN.
- DOAS TOUCHSCREEN CONTROLLER, RE: M-200.
- TRANSITION DUCT TO FULL SIZE SUPPLY AIR AND RETURN AIR DUCTS THRU ROOF TO ROOFTOP UNIT AS REQUIRED. PROVIDE WITH FLEXIBLE DUCT CONNECTIONS. COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR.

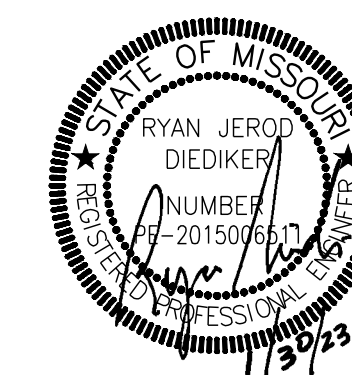


PROJECT NAME: Kennett Readiness Center  
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 DATE: Friday, January 27, 2023 10:33:12 AM  
 LAST CORRECTION BY: Jblockburn  
 PLOTTED BY: Booty Charles  
 DATE: Friday, January 27, 2023 2:51:34 PM

**2 ENLARGED FLOOR PLAN - HVAC**  
SCALE: 1/4" = 1'-0"  
NORTH

**1 FLOOR PLAN - HVAC**  
SCALE: 1/8" = 1'-0"  
NORTH





PROFESSIONAL SEAL

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KENNETT  
READINESS CENTER  
1450 NORTH BY-PASS  
KENNETT, MO 63857

PROJECT # T2209-01

FACILITY # 8136313002

REVISION:  
DATE:  
REVISION:  
DATE:  
REVISION:  
DATE:  
REVISION:  
DATE:

ISSUE DATE: January 30, 2023

CAD DWG FILE: M-200.DWG  
DRAWN BY: JEB  
CHECKED BY: RJD  
DESIGNED BY: JEB

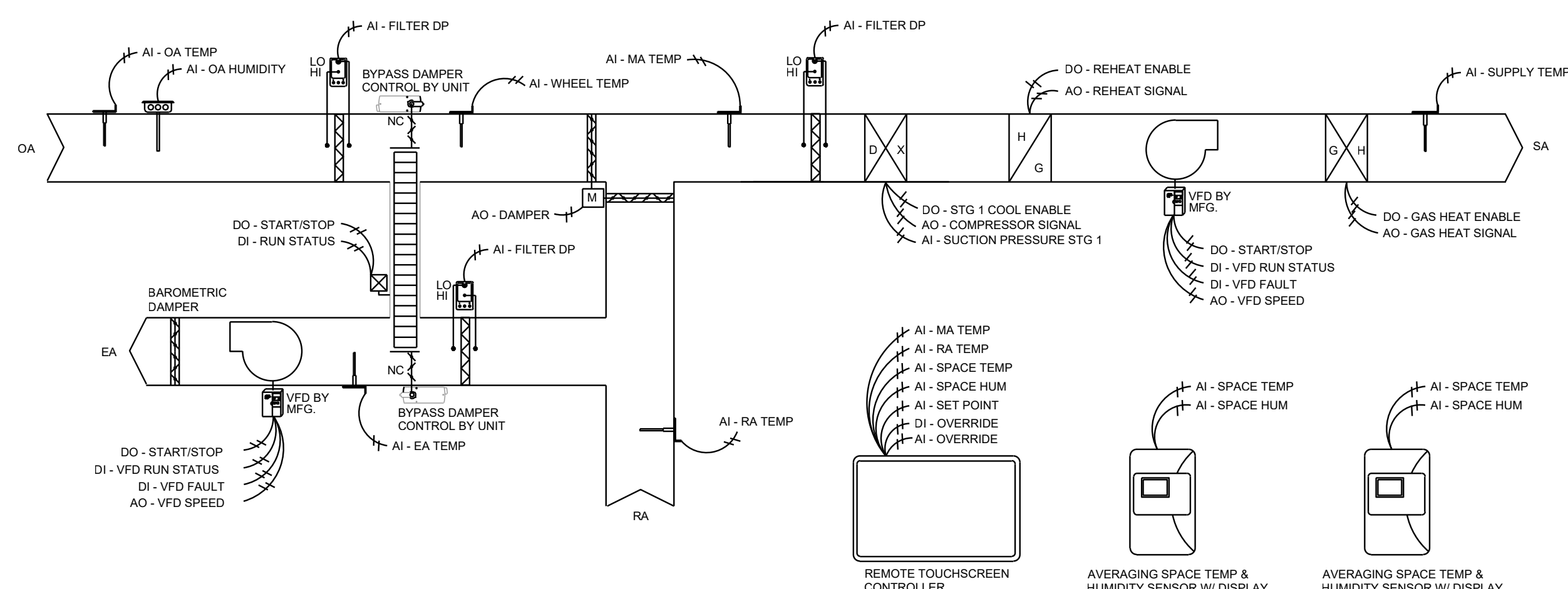
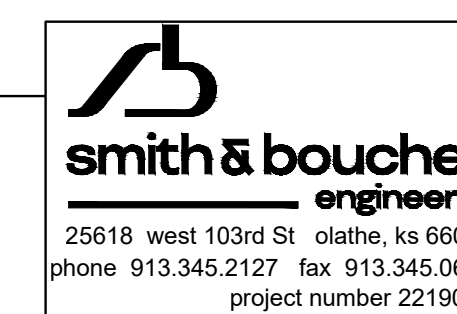
SHEET TITLE:

HVAC CONTROL  
SCHEMATIC

SHEET NUMBER:

M-200

22 OF 29 SHEETS



TEMPHUM SENSORS, REMOTE TOUCHSCREEN CONTROLLER FURNISHED BY UNIT MANUFACTURER, INSTALLED BY MECHANICAL CONTRACTOR  
ACTUATORS/VFDS PROVIDED/INSTALLED BY UNIT MANUFACTURER

**SEQUENCE OF OPERATION: Dedicated Outside Air System (Standalone control)**

**Zone Occupancy:**  
The remote touch screen controller shall enable the DOAS unit to be occupied via its time-of-day schedule and provide full control of the unit, via terminal strip, for the sequence as follows:

When the unit is in occupied mode (weekend), the outside air damper shall open and the supply fan, exhaust fan and energy recovery wheel shall run continuously. The unit shall supply 100% outside air.

**Heating/Cooling Switchover:**  
If the outside air wheel temperature falls more than 1°F below the heating setpoint for more than 10 minutes (adj.), and the outside air dewpoint is below 55°F (adj.), then the unit shall enter the heating mode. If the outside air wheel temperature rises more than 1°F above the cooling setpoint for more than 10 minutes (adj.) or the outside air dewpoint is above 55°F (adj.), the unit shall enter the cooling mode.

**Supply Air Temperature Setpoint:**  
The supply air temperature setpoint shall be reset based on a space temperature sensor. In cooling mode, the supply air temperature setpoint shall be reset from 74°F (adj.) down to 55°F (adj.), as the space temperature increases above 74°F (adj.). In heating mode, the supply air temperature setpoint shall be reset from 70°F (adj.) up to 95°F (adj.), as the space temperature decreases below 70°F (adj.).

**Cooling Mode:**  
When the unit is in cooling mode, the DX Cooling shall be enabled and modulate DX capacity to maintain the supply air setpoint. Suction pressure shall be monitored and the variable capacity compressor signal shall be limited to maintain a minimum suction pressure setpoint of 110psi (adj.) to avoid freezing the cooling coil.

**Dehumidification Mode:**  
If the outside air dewpoint rises above 55°F (adj.) or the space humidity rises above 55%, the unit shall enter into a dehumidification mode. During the dehumidification mode, DX cooling shall be enabled and all variable capacity compressors shall modulate to maintain current suction pressure setpoint of 120psi (adj.). The modulating hot gas reheat shall be enabled and modulate to maintain the current cooling mode supply air temperature setpoint. Once the outside air dewpoint drops below 52°F (adj.) or the space humidity below 45%, the dehumidification mode shall be disabled.

**Heating Mode:**  
When the unit is in heat mode, the gas heating is enabled and shall modulate to maintain the supply air setpoint.

**Energy Recovery Wheel Defrost**  
Stop/jog defrost sequence shall be utilized for the prevention of frost buildup on energy recovery wheel when necessary.

**Zone Occupied (Weekday):**  
When the zone is scheduled to be occupied on a weekday via its time-of-day schedule, the outside air damper shall allow only 30% outside air (adj.).

**Zone Unoccupied:**  
When the zone is scheduled to be unoccupied, the outside air damper shall close, and the supply fan and heating and cooling shall be energized to maintain set back temperatures of 55°F (heating) and 80°F (cooling).

**Occupancy Override:**  
The touchscreen interface shall allow the user to dynamically change the occupancy schedule and force weekday or weekend occupancy for an adjustable amount of time.

**Filter Differential Pressure Monitor:**  
The controller shall monitor the differential pressure across all unit filters.

**Alarms:**  
The controller shall provide the following alarms at the touchscreen interface for any of the following conditions: supply air fan failure, exhaust air fan failure, energy recovery wheel failure, high and low supply air temperature, and high filter pressure drop.

**DEDICATED OUTSIDE AIR UNIT DOAS-1**  
NOT TO SCALE

PROJECT NAME: Kennett Readiness Center  
AUTOCAD FILE LOCATION: X:\22\221900\Drawings\04-2219000\_M-200.dwg  
LAST CORRECTION BY: Jblockburn  
LAST CORRECTION DATE: Friday, January 27, 2023 10:33:34 AM  
PLOTTED BY: Booty Charles  
PLOT TIME: Friday, January 27, 2023 2:51:44 PM

PROJECT NAME: Kennett Readiness Center  
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LAST CORRECTION DATE: Friday, January 27, 2023 10:33:34 AM  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: January 30, 2023

CAD DWG FILE: DP-100.DWG  
DRAWN BY: JEB  
CHECKED BY: RJD  
DESIGNED BY: JEB

SHEET TITLE:

DEMOLITION  
PLUMBING -  
FLOOR PLAN

SHEET NUMBER:

DP-100

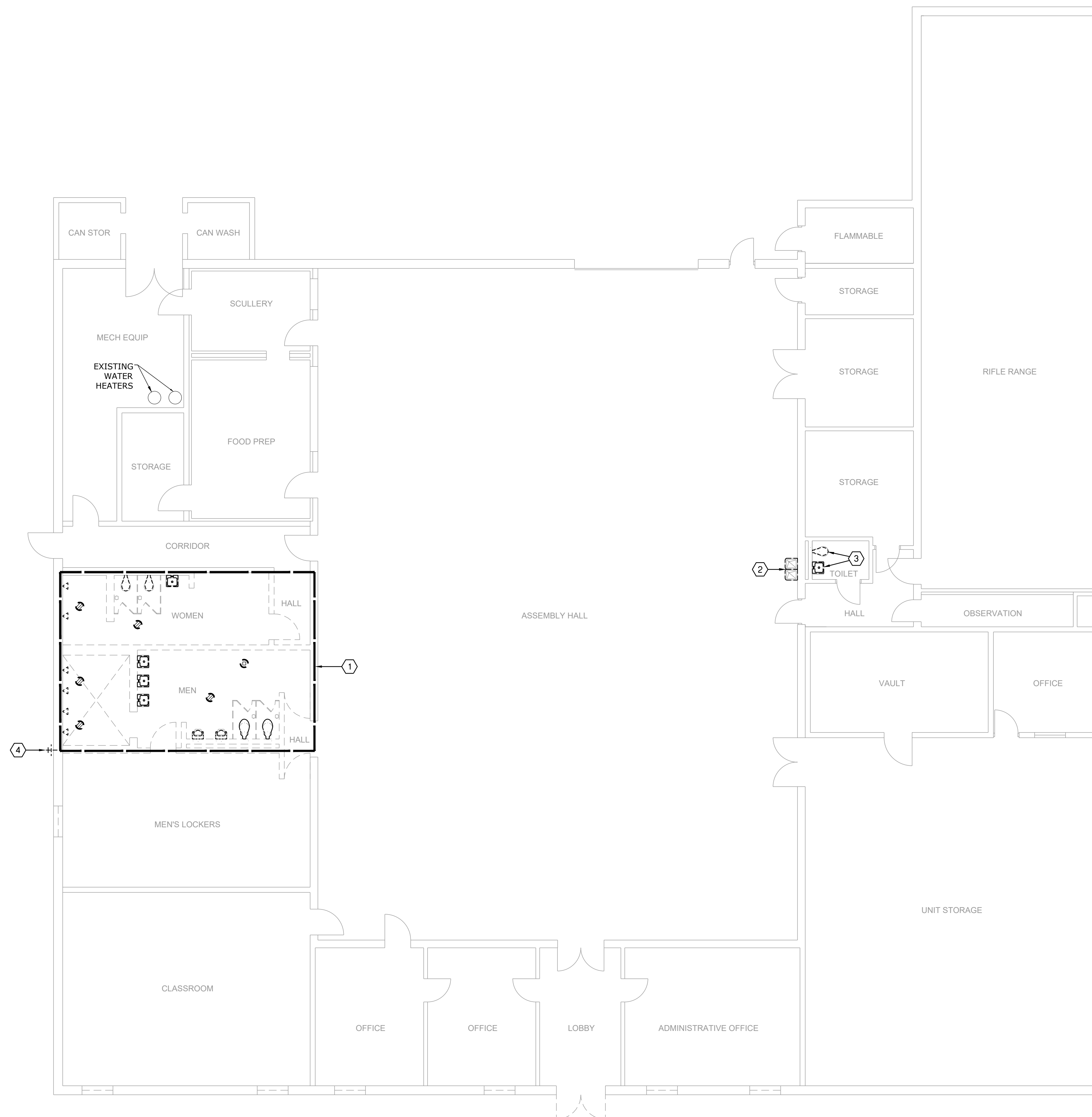
23 OF 29 SHEETS

GENERAL DEMOLITION NOTES:

- UNLESS OTHERWISE NOTED, SERVICES AND EQUIPMENT SHOWN WITH BOLD DASHED LINES ARE TO BE DEMOLISHED. SERVICES AND EQUIPMENT SHOWN WITH SOLID HALF-TONE LINE WEIGHT ARE TO REMAIN IN PLACE.
- THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND FROM VISUAL SITE INSPECTION AND ARE NOT TO BE CONSIDERED "AS BUILT" CONDITIONS. THE INFORMATION SHOWN IS TO ESTABLISH THE EXTENT OF THE SCOPE OF WORK. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE EXTENT OF THE WORK INDICATED.
- PATCH AND REPAIR ANY INFRASTRUCTURE THAT IS TO REMAIN WHERE ANY SERVICES ARE REMOVED UNLESS NOTED OTHERWISE. DISCONNECT AND REMOVE ALL WIRING, CABLING, RACEWAY AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF EQUIPMENT INDICATED TO BE REMOVED.
- WHERE MECHANICAL AND ELECTRICAL FIXTURES OR EQUIPMENT ARE REMOVED, CAP ALL UNUSED CONDUIT, WIRING AND PIPING BEHIND THE FLOOR LINE OR WALL LINE TO FACILITATE THE RESTORATION OF FINISH.
- PROVIDE FOR THE CONTINUITY OF ALL REMAINING SERVICES, SYSTEMS, AND CIRCUITS. RELOCATE AND RECONNECT ANY MECHANICAL AND ELECTRICAL FACILITIES THAT MUST BE RELOCATED IN ORDER TO ACCOMPLISH THE REMODELING SHOWN IN THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS.

DEMOLITION PLAN NOTES:

- PROVIDE COMPLETE DEMOLITION OF ALL PLUMBING FIXTURES, FLOOR DRAINS, AND CLEANOUTS IN SHOWER/RESTROOM. PROVIDE DEMOLITION OF ALL ASSOCIATED SANITARY, VENT, AND WATER PIPING.
- PROVIDE DEMOLITION OF DRINKING FOUNTAIN. CAP SANITARY AND CW PIPING BACK IN WALL. COORDINATE WALL PATCHING WITH GENERAL CONTRACTOR.
- PROVIDE DEMOLITION OF LAVATORY AND WATER CLOSET. SALVAGE SANITARY, CW, AND HW POINT OF USE HEATER FOR NEW FIXTURES PER NEW WORK PLANS.
- PROVIDE DEMOLITION OF WALL HYDRANT. COORDINATE EXTERIOR WALL PATCHING WITH GENERAL CONTRACTOR.



1 DEMOLITION FLOOR PLAN - PLUMBING

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



**smith & boucher**  
engineers

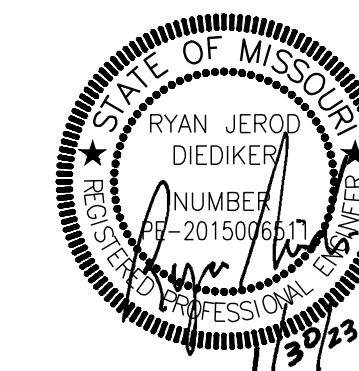
25618 west 103rd St. olathe, ks 66061  
phone 913.345.2127 fax 913.345.0617  
project number 2219000

10 feet  
0 2 4 6 8 10  
scale: 1/4" = 1'-0"

PROJECT NAME: Kennett Readiness Center  
AUTOCAD FILE LOCATION: X:\22\2219000\Drawings\03-2219000\_DP-100.dwg  
LAST CORRECTION BY: Jblockburn  
PLOTTED BY: Booty Charles  
DATE: Wednesday, January 18, 2023 2:48:45 PM  
TIME: Friday, January 27, 2023 2:51:22 PM

PROJECT NAME: Kennett Readiness Center  
AUTOCAD FILE LOCATION: X:\22\2219000\Drawings\03-2219000\_DP-100.dwg  
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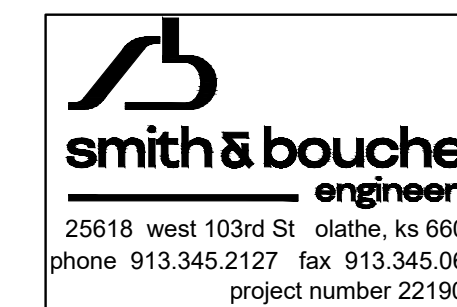
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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: January 30, 2023

CAD DWG FILE: P-100.DWG  
DRAWN BY: JEB  
CHECKED BY: RJD  
DESIGNED BY: JEB

SHEET TITLE:  
**PLUMBING -  
FLOOR PLAN**

SHEET NUMBER:  
**P-100**

24 OF 29 SHEETS



GENERAL NOTES:

- ALL DUCTWORK AND PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT INCLUDE ALL OFFSETS, DROPS, AND RISES. CAREFULLY COORDINATE DUCT AND PIPE ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES, EQUIPMENT ACCESSIBILITY, DESIRED CEILING HEIGHTS, AND AESTHETICS. THE CONTRACTOR SHALL INCLUDE ANY NEEDED OFFSETS AND CHANGES OF DIRECTION IN THE BID PRICING.
- COORDINATE ALL PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO CORE DRILLING.
- COORDINATE ALL SLAB CUTTING, REMOVAL, AND PATCHING WITH GENERAL CONTRACTOR AS REQUIRED FOR NEW BELOW GRADE PLUMBING WORK.
- PROVIDE SHUT OFF VALVES ABOVE ACCESSIBLE CEILING OR OTHER ACCESSIBLE LOCATION FOR ALL BRANCH PIPING AND INDIVIDUAL CONNECTIONS TO PLUMBING FIXTURES. WHERE STOPS ARE PROVIDED FOR INDIVIDUAL FIXTURES SHUT OFF VALVES ARE ALSO REQUIRED AT THE BRANCH CONNECTION. PLUMBING STOPS ARE NOT CONSIDERED A SUBSTITUTE FOR SHUT OFF VALVES.
- PROVIDE WATER HAMMER ARRESTERS IN WATER PIPING ACCORDING TO STANDARD PDI-WH 201.

PLAN NOTES:

- CONNECT NEW 1" GAS TO EXISTING GAS SERVICE INSIDE BUILDING. FIELD DETERMINE EXACT LOCATION.
- CONNECT EXISTING GAS TO NEW FURNACE. PROVIDE UNION AND FLEXIBLE CONNECTION AFTER EXISTING SHUT OFF.
- CONNECT NEW 1-1/4" GAS TO EXISTING GAS MAIN ABOVE CEILING. FIELD DETERMINE EXACT LOCATION.
- 1-1/4" GAS UP THRU ROOF CURB TO DOAS UNIT ON ROOF. (EXISTING GAS LOAD ON 3" MAIN IS 1485 MBH. 315 MBH CAPACITY AVAILABLE @ 300 LF.)

PLAN NOTES:

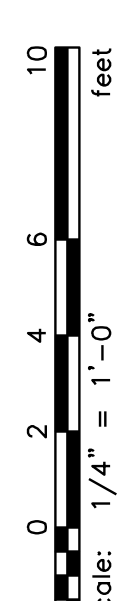
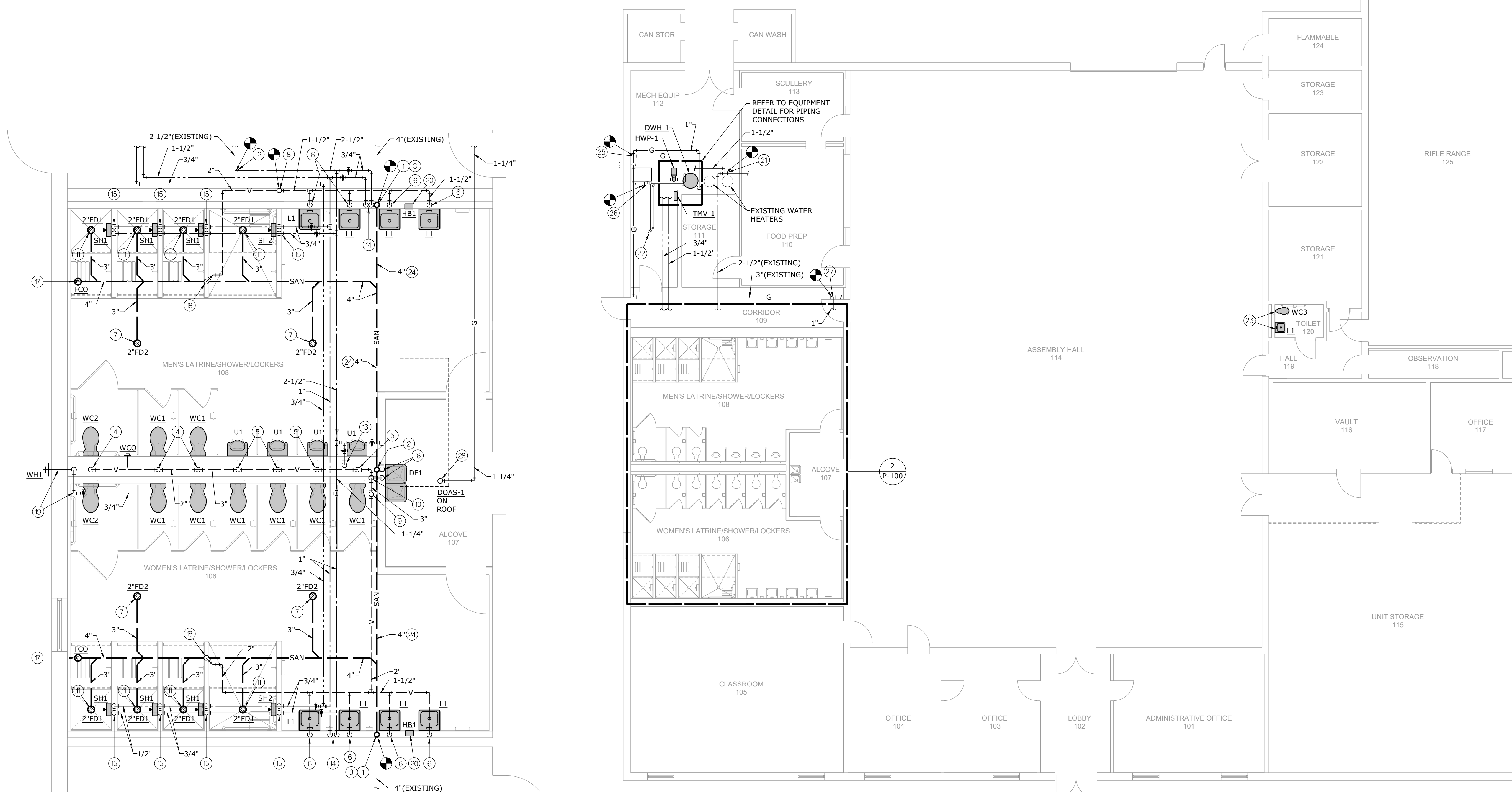
- 2" VENT DOWN IN WALL, THRU FLOOR TO COMBINATION WASTE AND VENT.
- 3/4" CW WITH SHUTOFF VALVE DOWN IN CHASE TO WALL HYDRANT.
- 1/2" CW AND HW TO HOSE BIBB IN FLUSH MOUNT WALL BOX, INSTALLED BELOW LAVATORY. REFER TO RISER DIAGRAM.
- CONNECT NEW 1-1/2" CW TO EXISTING 2-1/2" CW IN GENERAL AREA. FIELD DETERMINE EXACT LOCATION.
- PROVIDE WATER HEATER CONCENTRIC VENT, THRU EXISTING ROOF DEMO'ED FLUE PENETRATION. SIZE AND INSTALL PER MANUFACTURER'S REQUIREMENTS. COORDINATE WITH ROOFING CONTRACTOR.
- NEW FIXTURES IN PLACE OF EXISTING. PROVIDE NEW FIXTURE TRIM AND ACCESSORIES PER PLUMBING FIXTURE SCHEDULE.
- PROVIDE NEW SAN PIPING MAIN IN PLACE OF EXISTING BETWEEN THE POINTS OF CONNECTION TO THE EXISTING (SEE PLAN NOTE 1).

PLAN NOTES:

- 4" VENT UP THRU ROOF TO 4" VTR. UTILIZE EXISTING ROOF PENETRATION FROM DEMOLISHED RESTROOMS VTR. MODIFY/ENLARGE EXISTING ROOF PENETRATION AS REQUIRED FOR NEW LARGER VTR. FIELD DETERMINE EXACT LOCATION. COORDINATE WITH ROOFING CONTRACTOR.
- 3" VENT DOWN IN CHASE.
- 3" TRAPPED SAN UP TO 2" SHOWER DRAIN.
- CONNECT NEW 2-1/2" CW TO EXISTING 2-1/2" CW SERVING DEMOLISHED RESTROOMS. FIELD DETERMINE EXACT LOCATION.
- 2-1/2" CW DOWN IN CHASE TO FIXTURES. REFER TO RISER DIAGRAM.
- 3/4" CW AND HW DOWN IN CHASE TO FIXTURES. REFER TO RISER DIAGRAM.
- 1/2" CW AND HW DOWN TO SHOWER.
- 2" SAN, 1-1/2" VENT, 1/2" CW TO DRINKING FOUNTAIN.
- 4" SAN UP TO FINISH FLOOR CLEANOUT.

PLAN NOTES:

- CONNECT NEW 4" SAN TO EXISTING 4" SAN. FIELD VERIFY LOCATION.
- 4" SAN UP IN CHASE TO FIXTURES. REFER TO RISER DIAGRAM.
- 2" SAN UP IN WALL TO LAVATORIES. REFER TO RISER DIAGRAM.
- 4" SAN, 2" VENT TO BACK TO BACK WATER CLOSET CARRIER. 1-1/4" CW TO EACH WATER CLOSET.
- 4" SAN TO WATER CLOSET CARRIER, 2" WET VENT TO URINAL, TO 2" VENT. 1-1/4" CW WATER CLOSET, 1" CW TO URINAL.
- 2" SAN, 1-1/2" VENT, 1/2" CW AND HW TO LAVATORY.
- 3" TRAPPED SAN UP TO 2" FLOOR DRAIN.
- 2" VENT UP THRU ROOF TO VTR. EXISTING 4" VTR SERVING DEMOLISHED RESTROOMS SHALL BE PERMITTED TO BE REUSED. FIELD DETERMINE EXACT LOCATION. COORDINATE WITH ROOFING CONTRACTOR.



PROJECT NAME: Kennett Readiness Center  
AUTOCAD FILE LOCATION: X:\22\2219000\Drawings\04-2219000-P-100.dwg  
LAST CORRECTION BY: Jblockburn  
PLOTTED BY: Booty Charles  
DATE: Friday, January 27, 2023 1:26:43 PM  
TIME: Friday, January 27, 2023 2:51:56 PM

**2 ENLARGED FLOOR PLAN - PLUMBING**  
SCALE: 1/4" = 1'-0"  
NORTH

**1 FLOOR PLAN - PLUMBING**  
SCALE: 1/8" = 1'-0"  
NORTH





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ISSUE DATE: January 30, 2023

CAD DWG FILE: P-200.DWG  
DRAWN BY: JEB  
CHECKED BY: RJD  
DESIGNED BY: JEB

SHEET TITLE:  
**RISER DIAGRAM -  
PLUMBING**

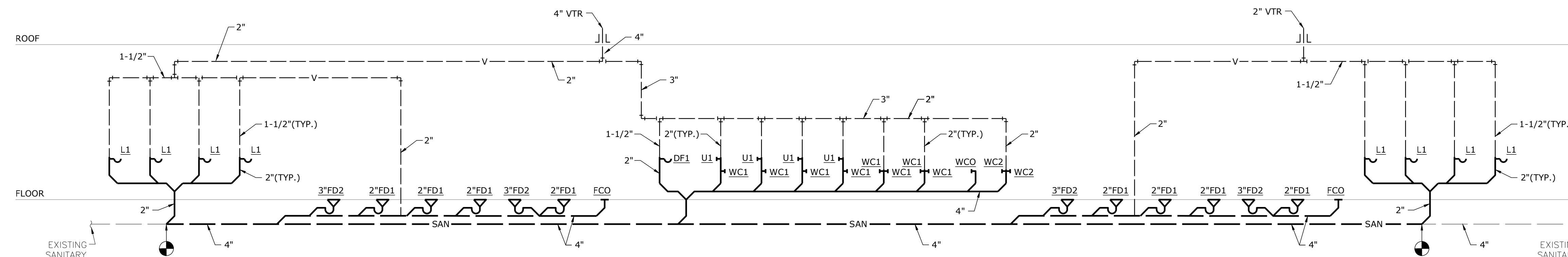
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**P-200**

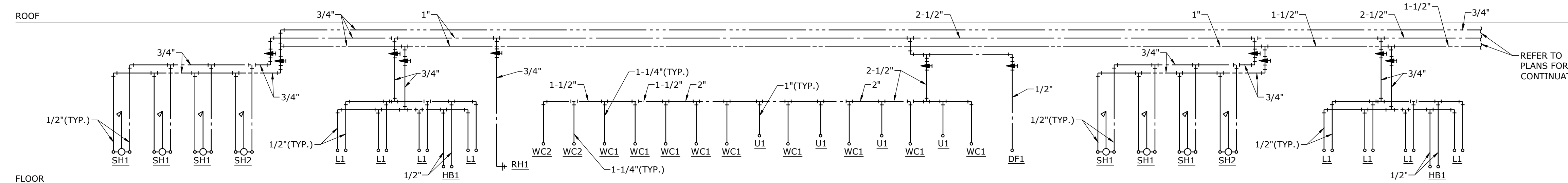
25 OF 29 SHEETS

GENERAL NOTES:

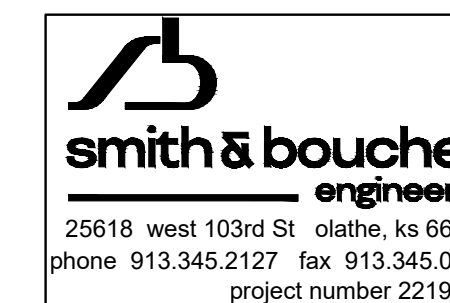
1. ALL DUCTWORK AND PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT INCLUDE ALL OFFSETS, DROPS, AND RISES. CAREFULLY COORDINATE DUCT AND PIPE ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES, EQUIPMENT ACCESSIBILITY, DESIRED CEILING HEIGHTS, AND AESTHETICS. THE CONTRACTOR SHALL INCLUDE ANY NEEDED OFFSETS AND CHANGES OF DIRECTION IN THE BID PRICING.
2. COORDINATE ALL PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO CORE DRILLING.
3. COORDINATE ALL SLAB CUTTING, REMOVAL, AND PATCHING WITH GENERAL CONTRACTOR AS REQUIRED FOR NEW BELOW GRADE PLUMBING WORK.
4. PROVIDE SHUT OFF VALVES ABOVE ACCESSIBLE CEILING OR OTHER ACCESSIBLE LOCATION FOR ALL BRANCH PIPING AND INDIVIDUAL CONNECTIONS TO PLUMBING FIXTURES. WHERE STOPS ARE PROVIDED FOR INDIVIDUAL FIXTURES SHUT OFF VALVES ARE ALSO REQUIRED AT THE BRANCH CONNECTION. PLUMBING STOPS ARE NOT CONSIDERED A SUBSTITUTE FOR SHUT OFF VALVES.
5. PROVIDE WATER HAMMER ARRESTERS IN WATER PIPING ACCORDING TO STANDARD PDI-WH 201.



**RISER DIAGRAM - WASTE & VENT - MEN'S LATRINE/SHOWERS/LOCKERS & WOMEN'S LATRINE/SHOWERS/LOCKERS**  
NO SCALE



**RISER DIAGRAM - WATER - MEN'S LATRINE/SHOWERS/LOCKERS & WOMEN'S LATRINE/SHOWERS/LOCKERS**  
NO SCALE



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AUTOCAD FILE LOCATION: X:\22\2219000\Drawings\04-2219000-P-200.dwg  
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LAST CORRECTION DATE: Friday, January 27, 2023 1:21:42 PM  
PLOTTED BY: Booty Charles  
PLOTTED DATE: Friday, January 27, 2023 2:52:06 PM





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DATE: \_\_\_\_\_

ISSUE DATE: January 30, 2023

CAD DWG FILE: DE-100.DWG  
DRAWN BY: JEB  
CHECKED BY: RJD  
DESIGNED BY: JEB

SHEET TITLE:

DEMOLITION  
ELECTRICAL -  
FLOOR PLAN

SHEET NUMBER:

DE-100

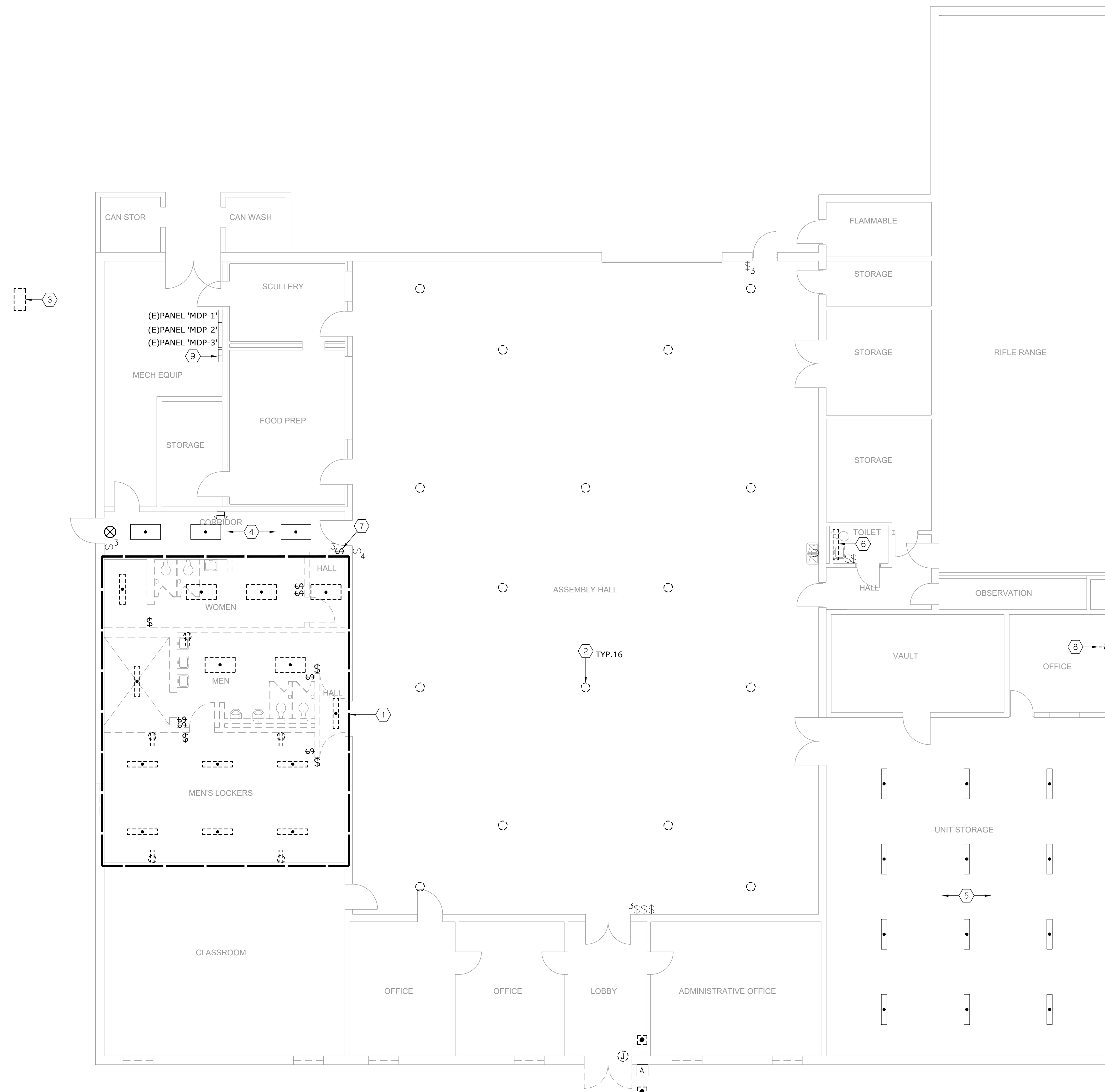
26 OF 29 SHEETS

GENERAL DEMOLITION NOTES:

- UNLESS OTHERWISE NOTED, SERVICES AND EQUIPMENT SHOWN WITH BOLD DASHED LINES ARE TO BE DEMOLISHED. SERVICES AND EQUIPMENT SHOWN WITH SOLID HALF TONE LINE WEIGHT ARE TO REMAIN IN PLACE.
- THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND FROM VISUAL SITE INSPECTION AND ARE NOT TO BE CONSIDERED "AS BUILT" CONDITIONS. THE INFORMATION SHOWN IS TO ESTABLISH THE EXTENT OF THE SCOPE OF WORK. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE EXTENT OF THE WORK INDICATED.
- PATCH AND REPAIR ANY INFRASTRUCTURE THAT IS TO REMAIN WHERE ANY SERVICES ARE REMOVED UNLESS NOTED OTHERWISE. DISCONNECT AND REMOVE ALL WIRING, CABLING, RACEWAY AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF EQUIPMENT INDICATED TO BE REMOVED.
- WHERE MECHANICAL AND ELECTRICAL FIXTURES OR EQUIPMENT ARE REMOVED, CAP ALL UNUSED CONDUIT, WIRING AND PIPING BEHIND THE FLOOR LINE OR WALL LINE TO FACILITATE THE RESTORATION OF FINISH.
- PROVIDE FOR THE CONTINUITY OF ALL REMAINING SERVICES, SYSTEMS, AND CIRCUITS. RELOCATE AND RECONNECT ANY MECHANICAL AND ELECTRICAL FACILITIES THAT MUST BE RELOCATED IN ORDER TO ACCOMPLISH THE REMODELING SHOWN IN THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS.

DEMOLITION PLAN NOTES:

- PROVIDE COMPLETE DEMOLITION OF ALL LIGHT FIXTURES, ASSOCIATED CONDUIT AND CONDUCTORS, AND SWITCHES IN LOCKER ROOM AND SHOWER/RESTROOM. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF DEMOLISHED LIGHT FIXTURES.
- PROVIDE DEMOLITION OF HI-BAY LIGHT FIXTURE. SALVAGE CIRCUIT AND SWITCHING FOR REUSE FOR REPLACEMENT FIXTURES PER NEW WORK PLANS. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF DEMOLISHED LIGHT FIXTURES.
- ALTERNATE NO. 2 - PROVIDE DEMOLITION OF EXTERIOR TRANSFER SWITCH. SALVAGE CONDUIT AND CONDUCTORS FOR CONNECTION TO NEW TRANSFER SWITCH PER NEW WORK PLANS.
- TEMPORARILY SUPPORT AND REINSTALL EXISTING LIGHT FIXTURES WITHIN HALL AS REQUIRED TO ACCOMMODATE ABOVE CEILING WORK RELATED TO NEW HVAC AND PLUMBING.
- EXISTING LIGHT FIXTURES SHOWN FOR REFERENCE. NO WORK.
- PROVIDE DEMOLITION OF LIGHT FIXTURE. SALVAGE CIRCUIT AND SWITCHING FOR REUSE FOR REPLACEMENT FIXTURE PER NEW WORK PLANS.
- PROVIDE DEMOLITION OF 3-WAY LIGHT SWITCH, ASSOCIATED CONDUIT AND CONDUCTORS. REFER TO NEW WORK PLANS FOR RELOCATION.
- DEMO RECEPTACLE. SALVAGE CIRCUIT AND ASSOCIATED CONDUCTORS TO SERVE NEW MINI-SPLIT SYSTEM PER NEW WORK PLANS. PROVIDE BLANK WALL PLATE.
- RELOCATE/SHIFT AS REQUIRED EXISTING EXHAUST FAN STARTERS ON OTHER SIDE OF EXISTING GAS PIPE TO ACCOMMODATE SPACE FOR NEW ELECTRICAL PANEL PER NEW WORK PLANS.

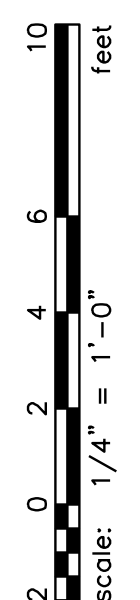


**1 DEMOLITION FLOOR PLAN - ELECTRICAL**  
SCALE: 1/8" = 1'-0"



**smith & boucher**  
engineers

25618 west 103rd St. olathe, ks 66061  
phone 913.345.2127 fax 913.345.0617  
project number 2219000



PROJECT NAME: Kennett Readiness Center  
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LAST CORRECTION BY: Jblockburn  
PLOTTED BY: Booty Charles  
DATE: Friday, January 27, 2023 10:38:38 AM  
TIME: Friday, January 27, 2023 2:52:17 PM





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OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

MISSOURI ARMY  
NATIONAL GUARD  
FACILITIES DIVISION

RENOVATE INTERIOR  
AND EXTERIOR

KENNETT  
READINESS CENTER  
1450 NORTH BY-PASS  
KENNETT, MO 63857

PROJECT # T2209-01

FACILITY # 8136313002

REVISION:  
DATE:  
REVISION:  
DATE:  
REVISION:  
DATE:  
REVISION:  
DATE:

ISSUE DATE: January 30, 2023

CAD DWG FILE: E-100.DWG  
DRAWN BY: JEB  
CHECKED BY: RJD  
DESIGNED BY: JEB

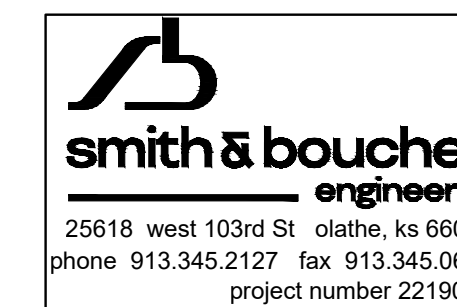
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LIGHTING -  
FLOOR PLAN

SHEET NUMBER:

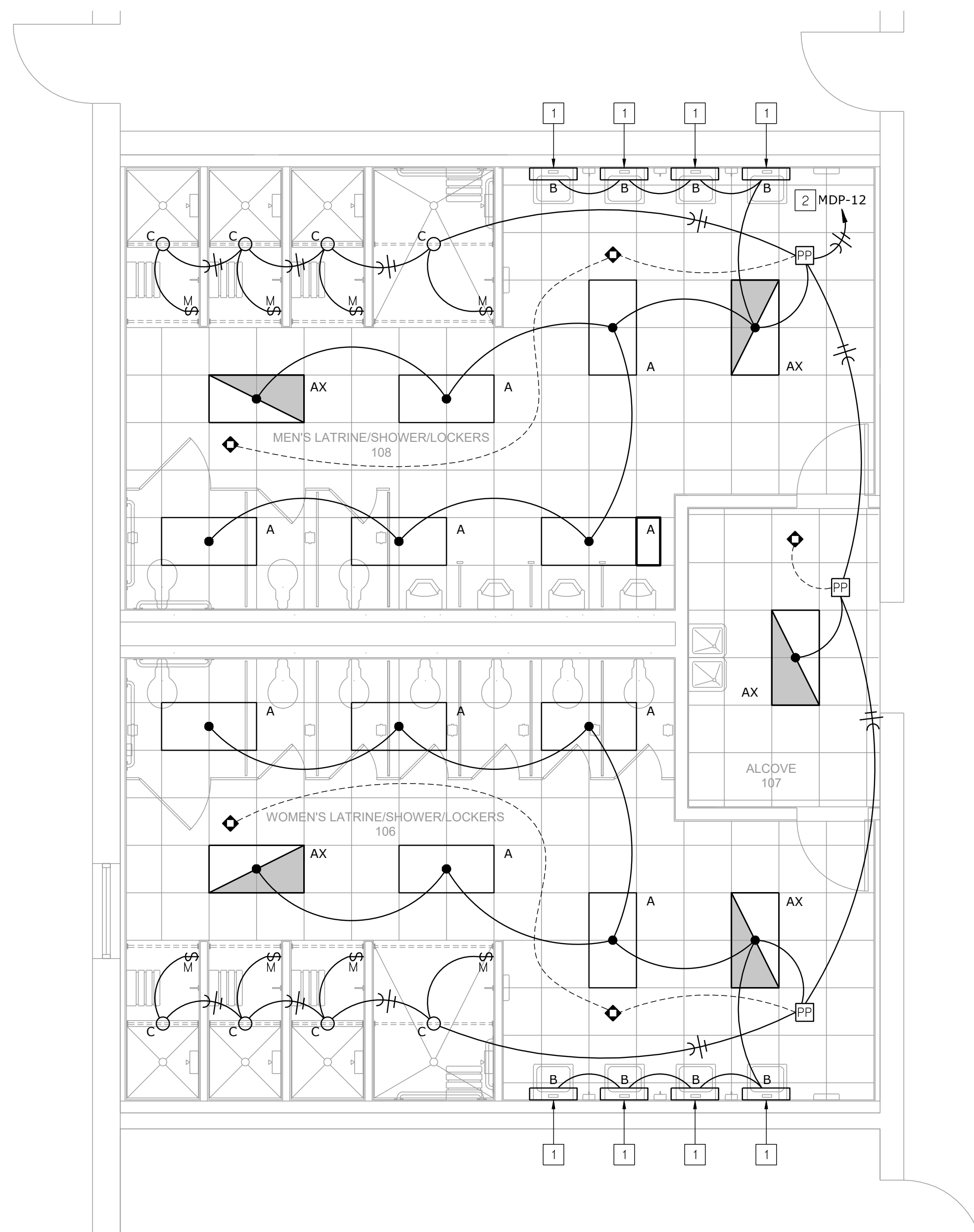
E-100

27 OF 29 SHEETS

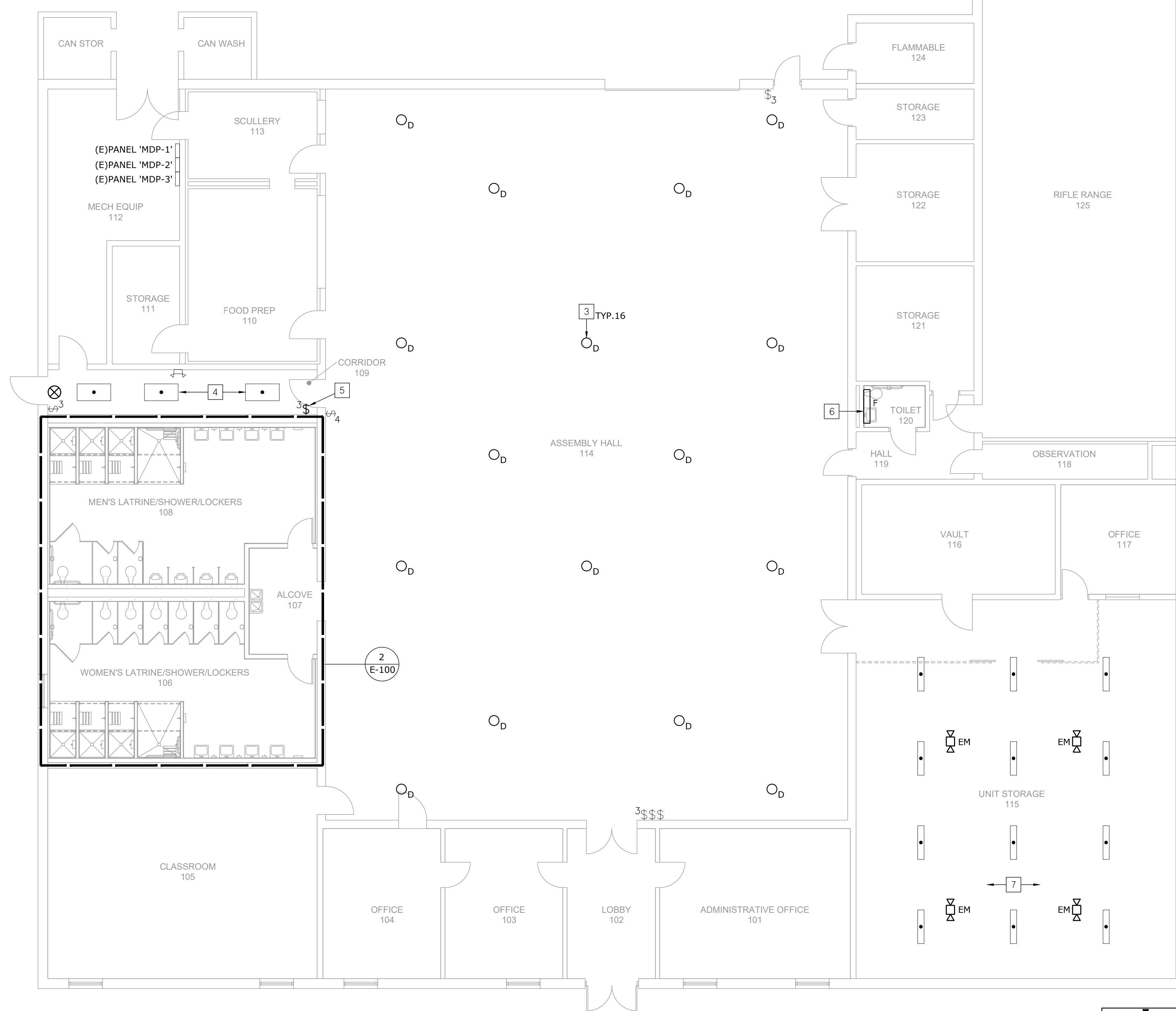


- PLAN NOTES:**
- 1 WALL MOUNT VANITY FIXTURE. COORDINATE MOUNTING HEIGHT ABOVE MIRROR WITH ARCHITECT.
  - 2 CIRCUIT TO BREAKER INDICATED THAT SERVED THE DEMOLISHED MEN'S LIGHTING CIRCUIT.
  - 3 REPLACE EXISTING FIXTURE WITH NEW AS INDICATED. UTILIZE EXISTING HI-BAY CIRCUIT/SWITCHING.
  - 4 TEMPORARILY SUPPORT AND REINSTALL EXISTING LIGHT FIXTURES WITHIN HALL AS REQUIRE TO ACCOMMODATE ABOVE CEILING WORK RELATED TO NEW HVAC AND PLUMBING.
  - 5 RELOCATE 3-WAY SWITCH FOR CORRIDOR LIGHTING. EXTEND/MODIFY CIRCUITING AS REQUIRED.
  - 6 REPLACE EXISTING FIXTURE WITH NEW AS INDICATED. UTILIZE EXISTING CIRCUIT/SWITCHING.
  - 7 EXISTING LIGHT FIXTURES SHOWN FOR REFERENCE, NO WORK. PROVIDE EMERGENCY LIGHTING AS SHOWN.

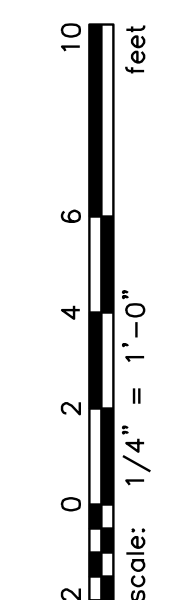
- GENERAL NOTES:**
1. REFER TO M/E SCHEDULES AND DETAILS FOR MECHANICAL EQUIPMENT CIRCUITING INFORMATION.
  2. PROVIDE (1) 1/2" CONDUIT FROM ALL THERMOSTATS UP TO ABOVE NEAREST ACCESSIBLE CEILING OR TO ASSOCIATED HVAC EQUIPMENT. REFER TO MECHANICAL PLANS FOR LOCATIONS.
  3. CIRCUIT ALL EMERGENCY FIXTURES, EMERGENCY BATTERIES AND EXIT SIGNS TO UNSWITCHED HOT CONDUCTOR OF CIRCUIT SERVING SAME OR ADJACENT ROOM.
  4. 120V BRANCH CIRCUITING SHALL BE AS FOLLOWS: (UNLESS SPECIFICALLY NOTED OTHERWISE)
    - 0-100' = #12 AWG.
    - 101-150' = #10 AWG.
    - 151-250' = #8 AWG.
- GROUND CONDUCTOR AND RACEWAYS SHALL BE INCREASED AS REQUIRED.



**2 ENLARGED FLOOR PLAN - HVAC**  
SCALE: 1/4" = 1'-0"  
NORTH

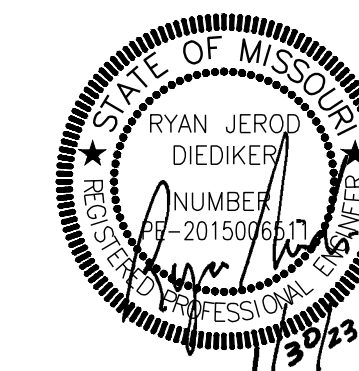


**1 FLOOR PLAN - LIGHTING**  
SCALE: 1/8" = 1'-0"  
NORTH



PROJECT NAME: Kennett Readiness Center  
AUTOCAD FILE LOCATION: X:\22\22190\Drawings\06-2219000-E-100.dwg  
LAST CORRECTION BY: Jblockburn  
PLOTTED BY: Booty Charles  
DATE: Friday, January 27, 2023 10:35:50 AM  
TIME: Friday, January 27, 2023 2:52:31 PM





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ISSUE DATE: January 30, 2023

CAD DWG FILE: E-200.DWG  
DRAWN BY: JEB  
CHECKED BY: RJD  
DESIGNED BY: JEB

SHEET TITLE:  
**POWER -  
FLOOR PLAN**

SHEET NUMBER:  
**E-200**

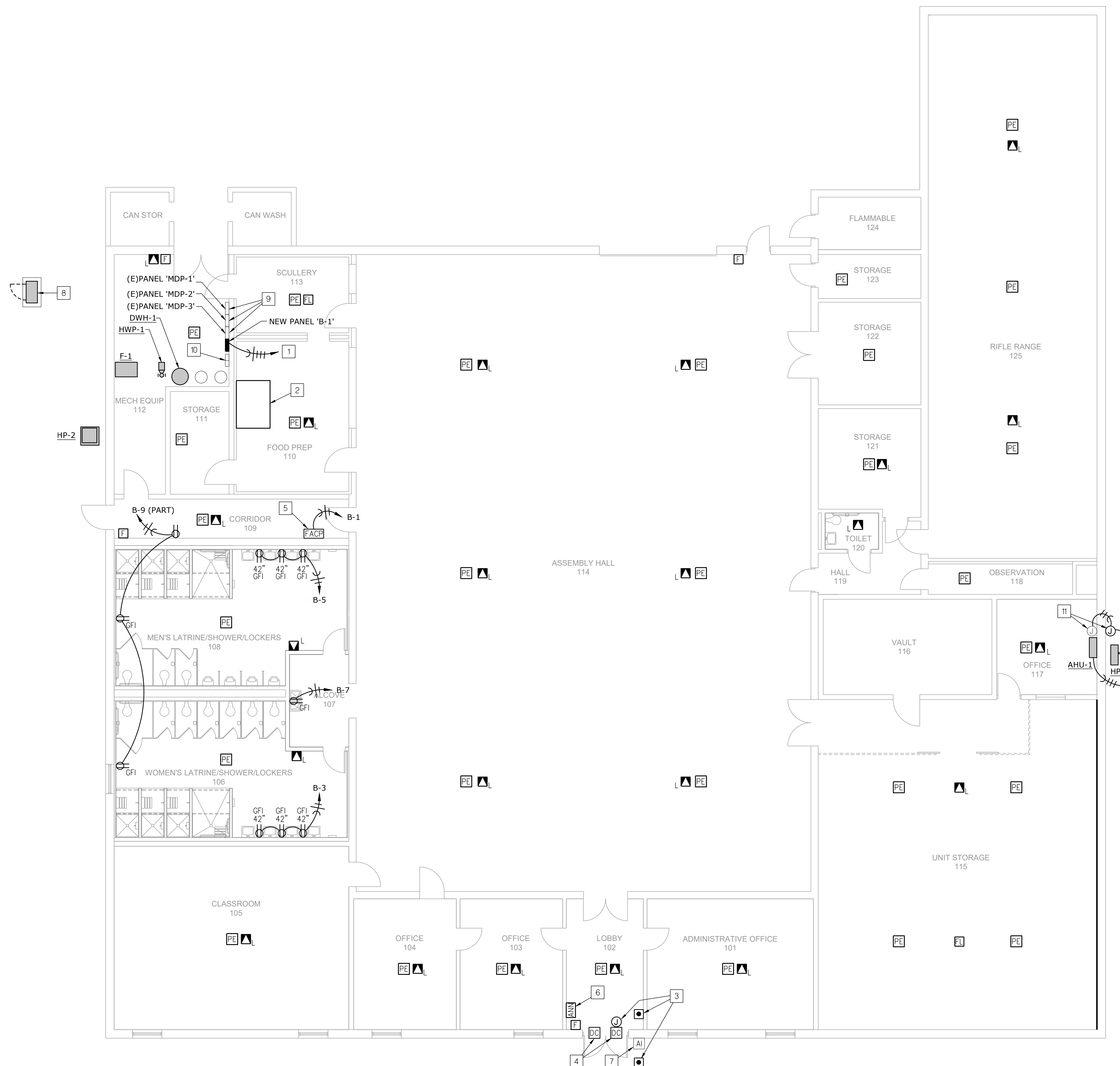
28 OF 29 SHEETS

GENERAL NOTES:

- REFER TO GENERAL NOTES, SHEET E-100.

PLAN NOTES:

- CIRCUIT NEW PANEL 'B' VIA EXISTING PANEL 'MDP-1', 'MDP-2', OR 'MDP-3'. CONDUIT/WIRE SHALL BE (4) #4, #10G, 1-1/4" C. FIELD DETERMINE THE MOST FEASIBLE PANEL WHICH TO USE TO SERVE THE NEW PANEL 'B'. IN THE EXISTING PANEL UTILIZED, THREE (3) 20A, 120V RECEPTACLE LOADS WILL BE REQUIRED TO BE RELOCATED AND PROTECTED VIA THE NEW PANEL 'B' IN ORDER TO ACCOMMODATE THE NEW PANEL 'B' OCPD (60A-3P CB).
- PROVIDE MONITORING OF EXISTING KITCHEN HOOD WITH NEW FIRE ALARM PANEL. FIELD DETERMINE REQUIREMENTS WITH EXISTING HOOD SYSTEM.
- COORDINATE REPLACEMENT OF EXISTING ADA DOOR OPENER MOTOR, ASSOCIATED ADA DOOR PUSH BUTTON, AND CABLING WITH DOOR HARDWARE PROVIDER. REUSE EXISTING POWER SUPPLY, LOW VOLTAGE CONDUIT AND BOXES WHERE POSSIBLE. FIELD DETERMINE EXACT REQUIREMENTS.
- ALTERNATE NO. 1 - PROVIDE CONDUIT AND CABLING AS REQUIRED FOR DOOR HARDWARE REQUIRED FOR REMOTE LOCK/UNLOCKING WITHIN MAIN OFFICE. COORDINATE WITH DOOR HARDWARE PROVIDER AND OWNER'S SECURITY CONTRACTOR. FIELD DETERMINE EXACT REQUIREMENTS.
- LOCATION OF NEW FIRE ALARM PANEL.
- LOCATION OF NEW FIRE ALARM PANEL REMOTE ANNUNCIATOR PANEL.
- EXISTING AI PHONE.
- ALTERNATE NO. 2 - 600A, 120/208V, 3 PHASE MANUAL TRANSFER SWITCH CABINET WITH GENERATOR CAM-LOK CONNECTIONS, THREE POSITION MANUAL OPERATING HANDLE, 3R ENCLOSURE, PAD MOUNT. BASES OF DESIGN ASCO MODEL #J-03MTQ-B-3-0600-C-00-M. EQUALS BY EATON, KOHLER POWER SYSTEMS, SIEMENS, CUMMINS POWER GENERATION, RUSS ELECTRIC.
- WITHIN THE EXISTING 'MDP' PANEL(S), SIX (6) 20A, 120V RECEPTACLE LOADS WILL BE REQUIRED TO BE RELOCATED AND PROTECTED VIA THE NEW PANEL 'B' IN ORDER TO ACCOMMODATE THE OCPD FOR CU-1, F-1, AND DOAS-1. REFER TO M/E SCHEDULES FOR EQUIPMENT CIRCUITING INFORMATION. FIELD DETERMINE MOST FEASIBLE EXISTING LOADS TO RELOCATE.
- RELOCATE EXHAUST FAN STARTERS.
- UTILIZE EXISTING CIRCUIT AND CONDUCTORS SERVING DEMOLISHED PTAC UNIT TO SERVE NEW MINI-SPLIT SYSTEM. REFER TO EQUIPMENT SCHEDULE. FIELD VERIFY EXACT REQUIREMENTS.



**1 FLOOR PLAN - POWER**  
SCALE: 1/8" = 1'-0"

**smith & boucher**  
engineers  
25618 west 103rd St. olathe, ks 66061  
phone 913.345.2127 fax 913.345.0617  
project number 2219000

10  
8  
6  
4  
2  
0  
2  
SCALE: 1/4" = 1'-0"  
feet

PROJECT NAME: Kennett Readiness Center  
AUTOCAD FILE LOCATION: X:\22\221900\Drawings\06-2219000\_E-200.dwg  
LAST CORRECTION BY: Jblockburn  
PLOTTED BY: Booty Charles  
DATE: Friday, January 27, 2023 2:01:17 PM  
TIME: Friday, January 27, 2023 2:52:42 PM



**LIGHTING FIXTURE SCHEDULE**

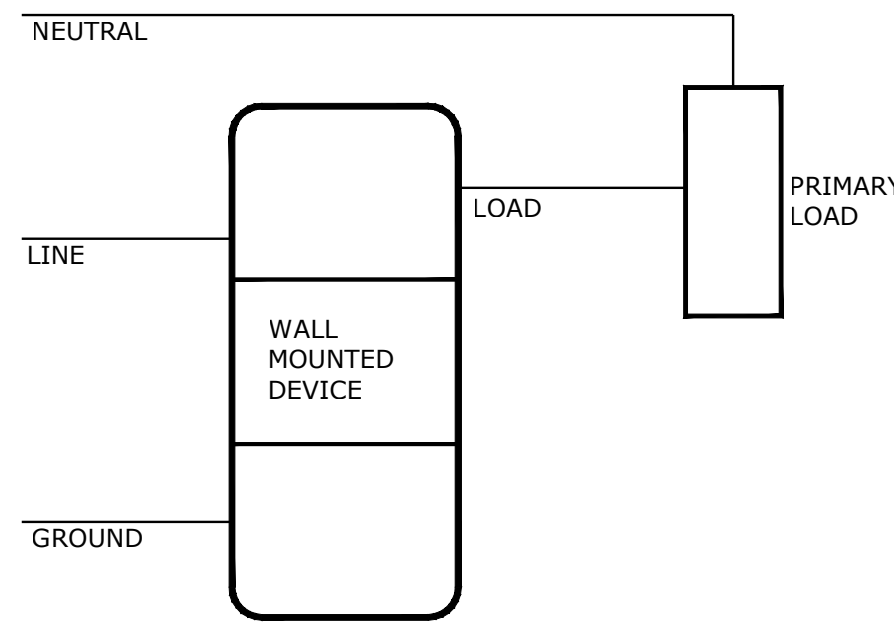
TYPE	DESCRIPTION	MOUNTING	LAMP	VOLTS	MANUFACTURER	V-A
A AX	2'-0" X 4'-0" LED PANEL, MATTE WHITE PAINT, OPAQUE WHITE ACRYLIC LENS, INTEGRAL DRIVER THAT IS COMPATIBLE WITH SUBMITTED LIGHTING CONTROLS.  (X) = PROVIDE WITH 10W EMERGENCY BATTERY PACK FOR 90 MIN. BACKUP	RECESSED GRID	3,400 LUMEN 3500K 80 CRI	UNV	METALUX 24FP CREE C-TR-C LITHONIA CFX COLUMBIA CFP OR PRE-BID APPROVED EQUAL	29
B	2'-0" LED VANITY LIGHT, MATTE WHITE PAINT, EXTRUDED ALUMINUM HOUSING, FROSTED ACRYLIC LENS, INTEGRAL DRIVER THAT IS COMPATIBLE WITH SUBMITTED LIGHTING CONTROLS.	SURFACE WALL	1,600 LUMEN 3500K 80 CRI	UNV	WILLIAMS A2QWD EXTANT HUNTINGTON 1 ALW LIGHTPLANE 2 OR PRE-BID APPROVED EQUAL	15
C	4.5" ROUND APERTURE LED DOWNLIGHT, WHITE TEXTURE POWDER COAT, WIDE DISTRIBUTION, FLUSH SHOWER TRIM WITH ACRYLIC LENS, INTEGRAL DRIVER THAT IS COMPATIBLE WITH SUBMITTED LIGHTING CONTROLS.	RECESSED GYP	1,500 LUMEN 3500K 80 CRI	UNV	WILLIAMS 4DR SERIES PORTFOLIO LD4A SERIES CREE SERIES KR4 LITONIA LDN4 SERIES OR PRE-BID APPROVED EQUAL	14
D	11"(TO 14") ROUND COMPACT LED HIGH BAY FIXTURE, DIE CAST ALUMINUM HOUSING, WHITE POWDER-COATED FINISH, INTEGRAL DRIVER, WIRE GUARD.	CABLE VIA RING BOLT	18,000 LUMEN 4000K 80 CRI	UNV	METALUX UHB KEYSTONE KT-RHLED SUNCO HB-UFO PRE-BID APPROVED EQUAL	153
F	4'-0" LED VANITY LIGHT, MATTE WHITE PAINT, EXTRUDED ALUMINUM HOUSING, FROSTED ACRYLIC LENS, INTEGRAL DRIVER.	SURFACE WALL	3,300 LUMEN 3500K 80 CRI	UNV	WILLIAMS A2QWD EXTANT HUNTINGTON 1 ALW LIGHTPLANE 2 OR PRE-BID APPROVED EQUAL	41
SF1	LED EXTERIOR FLOOD LIGHT, DIE CAST ALUMINUM HOUSING, HEAVY DUTY DIE-CAST ALUMINUM KNUCKLE, MOUNT KNUCKLE ON CONCRETE BASE PER MANUFACTURERS RECOMMENDATION, TIGHT SPOT DISTRIBUTION, SOFTENING GLASS, BUTTON PHOTOCELL, COORDINATE DESIRED FINISH WITH ARCHITECT.	CONCRETE BASE / ARCH J-BOX	3,000 LUMEN 3000K 80 CRI	UNV	INVUE SERIES VFS LITHONIA SERIES DSXF1 GARDCO SERIES DFL7 OR PRE-BID APPROVED EQUAL	35
SL1	LED SINGLE HEAD PARKING LOT EXTERIOR POLE MOUNTED FIXTURE. TYPE T4W DIST, FULL CUTOFF, TWIST LOCK PHOTOCELL. POLE TO MATCH FIXTURE FINISH - DARK BRONZE. 25'-0" X 5" SQUARE STEEL POLE. FIXTURE AND FIXTURE POLE SHALL MATCH EXISTING - NO EQUALS.	25'-0" POLE + 2'-6" CONCRETE BASE	56,200 LUMEN 5000K 80 CRI	UNV	LITHONIA RSX4 LED P3 50K MVOLT SPA DDBXD (FIXTURE TO MATCH EXISTING)	369

**PANEL B (Note 2)**

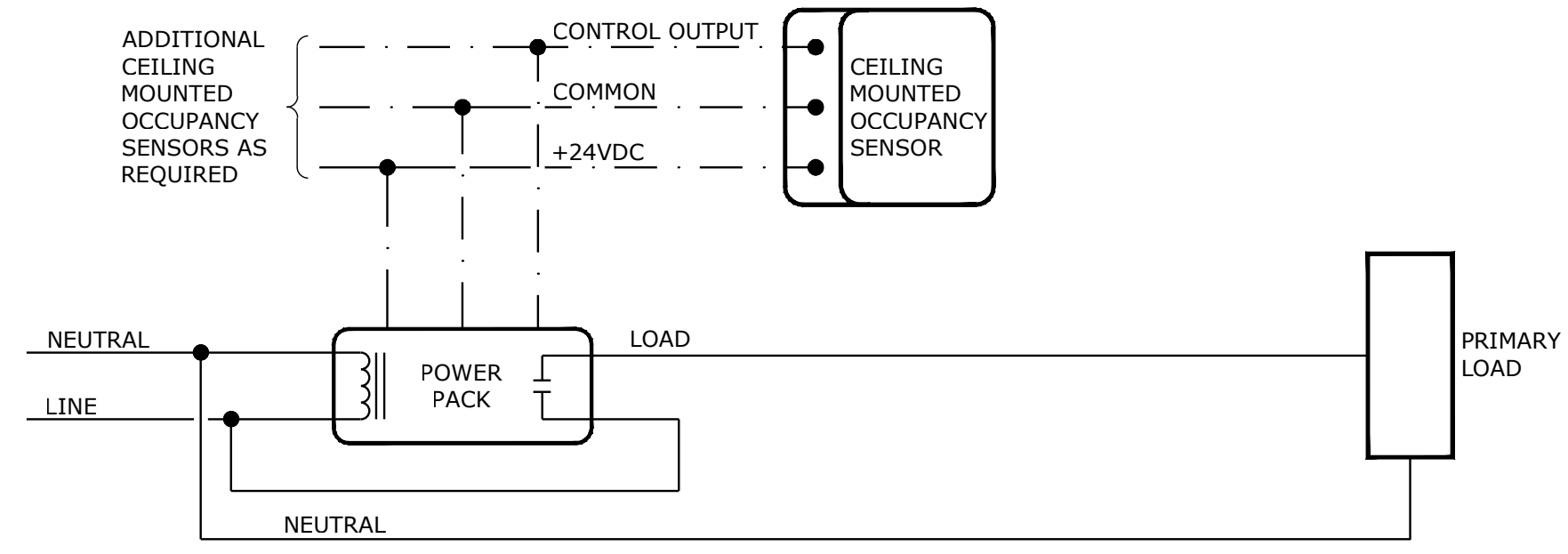
**MAIN BUS AMPS:** 100 A      **AIC:** 10,000 A      **MAIN LUGS ONLY**  
**MAIN BREAKER:** N/A      **SECTIONS:** 1-24 SPACE      **EQUIPMENT GROUND BUS**  
**VOLTAGE:** 208Y/120 V      **MOUNTING:** SURFACE  
**PHASES/WIRES:** 3 PH / 4 W      **ENCLOSURE TYPE:** NEMA 1

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
FIRE ALARM PANEL	1	20 -LCK	1	2	20	1	CIRCUIT (NOTE 1)
RCPT-WOMEN'S LATRENE	1	20	3	4	20	1	CIRCUIT (NOTE 1)
RCPT-MEN'S LATRENE	1	20	5	6	20	1	CIRCUIT (NOTE 1)
RCPT-DRINKING FOUNTAIN	1	20	7	8	20	1	CIRCUIT (NOTE 1)
RCPT-GENERAL PURPOSE, ROOF	1	20	9	10	20	1	CIRCUIT (NOTE 1)
PUMP HWP-1, WATER HEATER DHW-1	1	20	11	12	20	1	CIRCUIT (NOTE 1)
SOUTH PARKING LOT LIGHTS	2	20	13	14	20	1	CIRCUIT (NOTE 1)
FLAG POLE LIGHTS	1	20	15	16	20	1	CIRCUIT (NOTE 1)
SPARE	1	20	17	18	20	1	CIRCUIT (NOTE 1)
SPARE	1	20	19	20	20	1	SPARE
SPARE	1	20	21	22	20	1	SPARE
SPARE	1	20	23	24	20	1	SPARE

**NOTE:**  
 1. RELOCATED GENERAL RECEPTACLE CIRCUIT FROM EXISTING PANEL. IDENTIFY AND PROVIDE PROPER CIRCUIT DESCRIPTION.  
 2. PANEL SERVED VIA 60A-3P CB IN EXISTING MDP-1, MDP-2, OR MDP-3 PANEL. THE E.C. SHALL FIELD DETERMINE EXISTING PANEL TO UTILIZE.  
 GFI - GROUND FAULT BREAKER  
 LCK - LOCKABLE TAB



**LINE VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM**  
NOT TO SCALE (SYMBOL \$<sub>M</sub>)



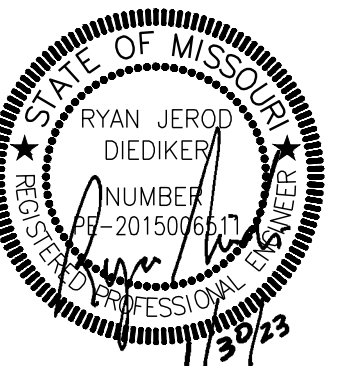
**LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM WITH AUTOMATIC ON OPERATION**  
NOT TO SCALE (SYMBOL PP / ◊)

**INTERIOR LIGHTING CONTROL EQUIPMENT LEGEND**

SYMBOL	FUNCTION	SYSTEM WIRING	MOUNTING	SETTING(TYPICAL)	MANUFACTURER	NOTES
\$ <sub>M</sub>	SWITCH	LINE VOLTAGE	WALL SWITCH	ON: MANUAL OFF: 30 MINUTE DELAY	WATTSTOPPER PW-100	NOTE 1
◊	MOTION SENSOR	LOW VOLTAGE	CEILING	ON: AUTOMATIC OFF: 30 MINUTE DELAY	WATTSTOPPER DT-300	NOTE 1,2,4
PP	POWER PACK	DIGITAL	CEILING	----	WATTSTOPPER BZ-50	NOTE 1,3

NOTE 1: THE MANUFACTURERS AND MODELS LISTED ARE THE BASIS OF DESIGN, ALL PRODUCT SUBSTITUTIONS SUBMITTED MUST BE APPROVED AS EQUAL. REFER TO DRAWINGS FOR QUANTITIES.  
 NOTE 2: PROVIDE 8'-0" OF EXCESS CONTROL WIRING, COILED AND TIED, BETWEEN CEILING MOUNTED OCCUPANCY SENSORS AND CORRESPONDING POWER PACKS.  
 NOTE 3: LOCATE DEVICE ABOVE ACCESSIBLE CEILING, LOCATIONS SHOWN ON DRAWINGS ARE SCHEMATIC.  
 NOTE 4: MODIFY LOCATIONS OF CEILING MOUNTED OCCUPANCY SENSORS AS REQUIRED SO THAT NO OCCUPANCY SENSOR IS WITHIN 4'-0" OF AN HVAC SUPPLY DIFFUSER.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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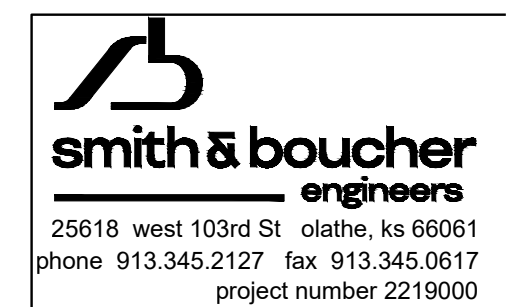
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ISSUE DATE: January 30, 2023

CAD DWG FILE: E-300.DWG  
DRAWN BY: JEB  
CHECKED BY: RJD  
DESIGNED BY: JEB

SHEET TITLE:  
**ELECTRICAL -  
SCHEDULES &  
DETAILS**

SHEET NUMBER:  
**E-300**



PROJECT NAME: Kennett Readiness Center  
 AUTOCAD FILE LOCATION: X:\22\2219000\Drawings\06-2219000\_E-300.dwg  
 LAST CORRECTION BY: Jblockburn  
 PLOTTED BY: Booty Charles