TERRE HAUTE RC FEMALE LATRINE EXPANSION

INDIANA NATIONAL GUARD

3614 MAPLE AVENUE
TERRE HAUTE, INDIANA 47804

IFB NO: MDI-SAB-24-B-002

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STATE OF INDIANA

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INDIANA NATIONAL GUARD
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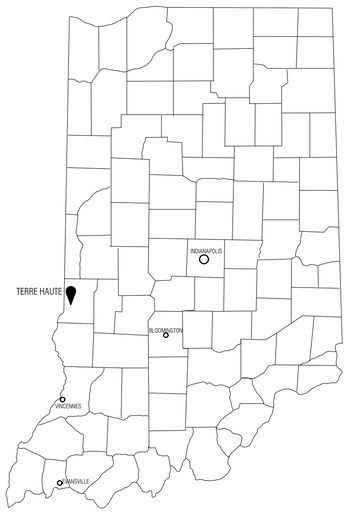

INDIANA VICINITY MAP
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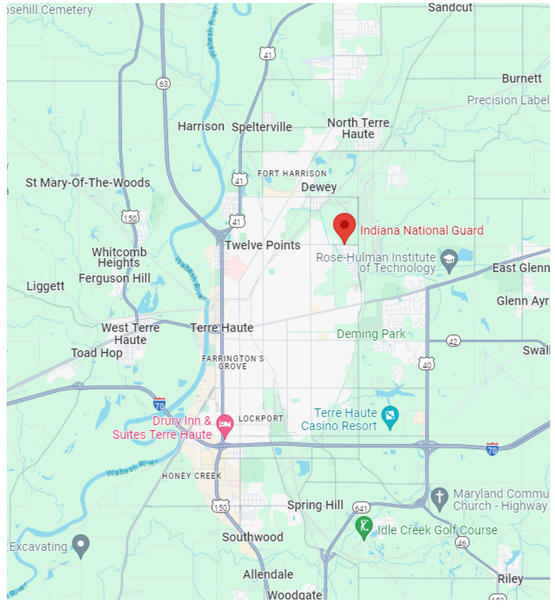

SITE LOCATION MAP
NOT TO SCALE

JACK R. KINKEL AND SON ARCHITECTS, PC
312 N.W. King Boulevard
Evansville, Indiana 47708
www.kinkel-ae.com
T 812.425.6803

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JACK T. KINKEL REGISTERED NO. PE-00656 STATE OF INDIANA PROFESSIONAL ENGINEER
05/31/2024

MICHAEL ANTHONY MOHR REGISTERED 10300009 STATE OF INDIANA ARCHITECT
05-31-2024

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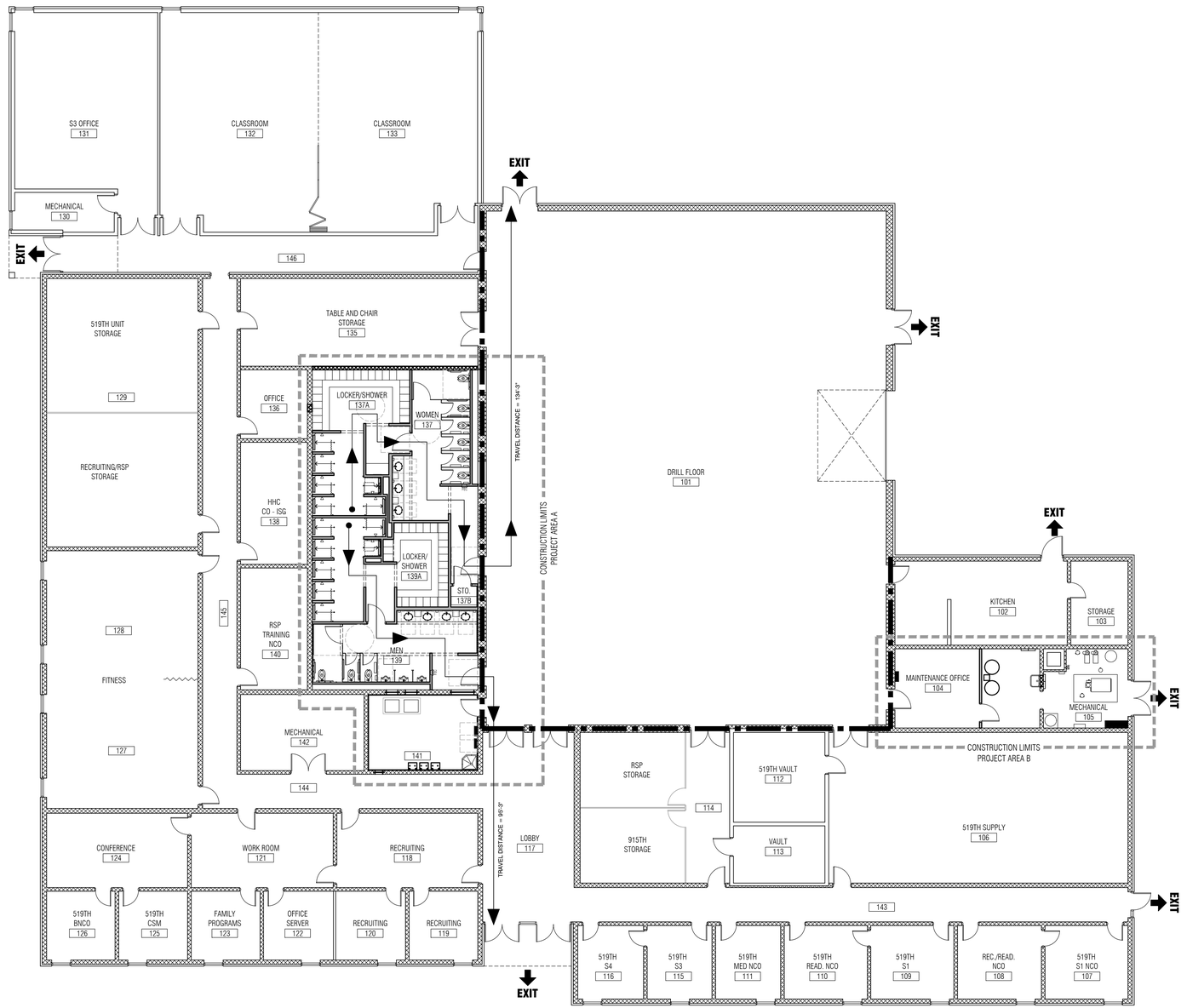

PLAN (N)

LIFE SAFETY PLAN

SCALE: 3/32"=1'-0"

0 2 5 10 20

CODE SUMMARY

SCOPE OF PROJECT:	THIS PROJECT INVOLVES THE INTERIOR RENOVATION OF AN EXISTING NATIONAL GUARD ARMORY BUILDING. ORIGINAL CONSTRUCTION WAS COMPLETED IN 1979 WITH A CLASSROOM ADDITION COMPLETED IN 2002. THIS RENOVATION CONSISTS OF UPGRADES TO EXISTING RESTROOM/SHOWER AREAS AND RELATED MECHANICAL/ELECTRICAL/PLUMBING WORK.	
APPLICABLE CODES:	2014 INDIANA BUILDING CODE (IBC) (2012 IBC W/ 2014 STATE AMENDMENTS) 2014 INDIANA MECHANICAL CODE (IMC) (2012 IMC W/ 2014 STATE AMENDMENTS) 2012 INDIANA PLUMBING CODE (IPC) (2006 IPC W/ 2012 STATE AMENDMENTS) 2009 INDIANA ELECTRICAL CODE (IEC) (2008 NEC W/ 2009 STATE AMENDMENTS) 2014 INDIANA FIRE CODE (2012 IFC W/ 2014 STATE AMENDMENTS) 2010 INDIANA ENERGY CONSERVATION CODE (ASHRAE 90.1 - 2007 W/ 2010 STATE AMENDMENTS) 2010 ADA ACCESSIBILITY GUIDELINES W/ 2003 ANSI 117.1 GENERAL ADMINISTRATIVE RULES (GAR), 2ND EDITION	
GENERAL ADMINISTRATIVE RULES:	GAR: 675 IAC 12 675 IAC 12-4-12 Existing buildings; additions or alterations (b) Additions or alterations may be made to any existing building, structure, or any part of the permanent heating, ventilating, air conditioning, electrical, plumbing, sanitary, emergency detection, emergency communication, or fire or explosion suppression systems without requiring the entire existing building, structure, or system to comply with all the requirements of the rules of the commission provided: (1) the construction work within the scope of the addition or alteration conforms to the requirements for new construction; and (2) subsections (c) through (f) and (h) are not violated. (d) No addition or alteration shall reduce existing fire protection or detection systems or exit capacities to a level less than that required under the provisions of the rules of the commission for new construction. NO RENOVATION OR ACTIVITY WILL REDUCE EXISTING EXIT CAPACITY OR INCREASE OCCUPANT LOAD.	
OCCUPANCY CLASSIFICATION:	MIXED USE (SEPARATED) ASSEMBLY GROUP A-2/A-3 BUSINESS GROUP B STORAGE GROUP S-1	
CONSTRUCTION TYPE:	TYPE IIB	
GROSS SQUARE FEET:	EXISTING BUILDING AREA:	26,601 SF
	RENOVATED AREA:	2,267 SF
NUMBER OF STORIES:	ONE	
FIRE BARRIERS	IBC TABLE 707.3.10 EXISTING FIRE RESISTANCE RATINGS TO BE MAINTAINED	
AUTOMATIC SPRINKLER SYSTEM :	IBC SECTION 903 NOT PROVIDED	
FIRE ALARM SYSTEM:	IBC SECTION 907.2.1 EXISTING TO BE MAINTAINED - STROBES AND OR HORNS/STROBES ADDED AS INDICTATED	
MEANS OF EGRESS EMERGENCY LIGHTING	EXISTING TO BE MAINTAINED	
EXIT WIDTH:	IBC SECTION 1005 EXISTING TO BE MAINTAINED	
COMMON PATH OF EGRESS TRAVEL:	IBC TABLE 1014.3 COMMON PATH OF EGRESS TRAVEL DISTANCE SHALL NOT EXCEED 75' IN BUILDINGS WITHOUT AUTOMATIC SPRINKLER SYSTEM AND OCCUPANT LOAD > 30. MAXIMUM TRAVEL DISTANCE IN RENOVATED AREA = 66' - 2"	
MEANS OF EGRESS:	IBC SECTION 1015 AND TABLE 1015.1 TWO - OCCUPANT LOAD IS GREATER THAN 50 RENOVATION WILL NOT REDUCE THE EXIT CAPACITIES TO A LEVEL LESS THAN THAT REQUIRED UNDER THE CURRENT RULES FOR NEW CONSTRUCTION. EGRESS TRAVEL DISTANCE WILL NOT BE INCREASED BEYOND WHAT IS PERMITTED BY CURRENT RULES. (RULE 4, SECTION 9(I), GAR; RULE 4, SECTION 12(b), GAR)	
EXIT ACCESS TRAVEL DISTANCE:	IBC TABLE 1016.2 EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED 200' IN GROUPS B AND S-1 OCCUPANCY WITHOUT AUTOMATIC SPRINKLER SYSTEM MAXIMUM TRAVEL DISTANCE PROVIDED = 134'-3"	
CORRIDOR FIRE RESISTANCE RATING:	IBC TABLE 1018.1 EXISTING CORRIDOR RATING TO BE MAINTAINED	

LEGEND:

EXISTING 2 HOUR RATED WALL TO BE MAINTAINED. FIRESTOP ALL PENETRATIONS WITHIN CONSTRUCTION LIMITS AND AS REQUIRED WITH NEW CONSTRUCTION.

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MICHAEL ANTHONY MOHR
REGISTERED
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ARCHITECT
05-31-2024

TODD T. KINKEL
REGISTERED
NO
PE-000666
STATE OF
INDIANA
PROFESSIONAL ENGINEER
05/31/2024

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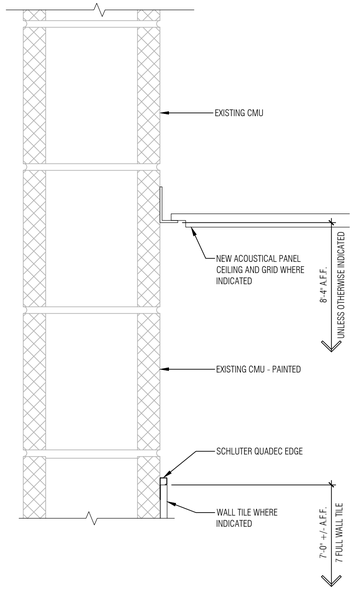
SHEET NO.

G0.1

CODE SUMMARY
LIFE SAFETY PLAN



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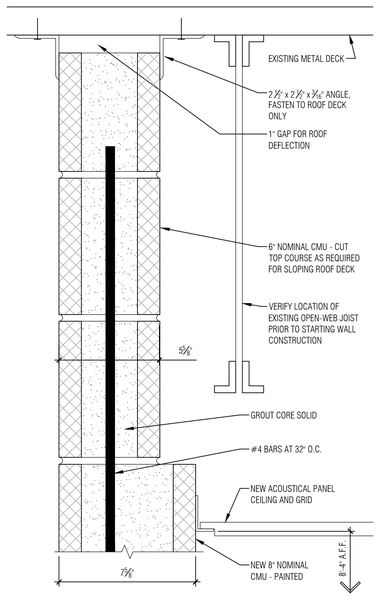

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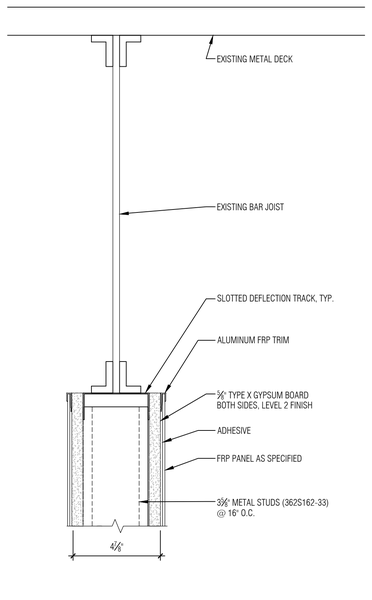

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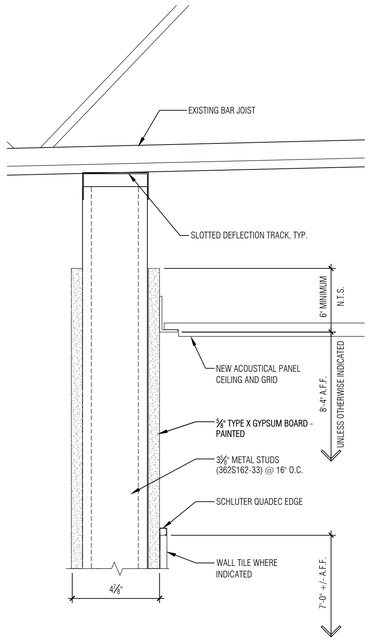

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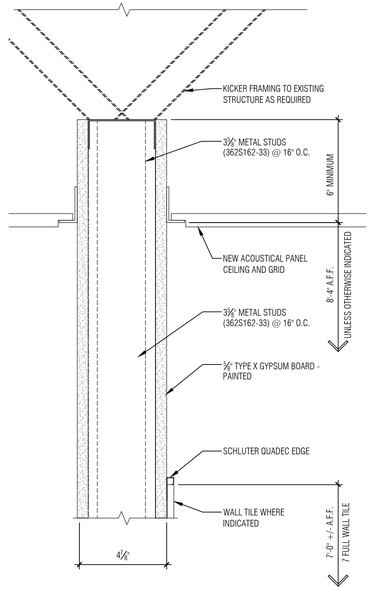

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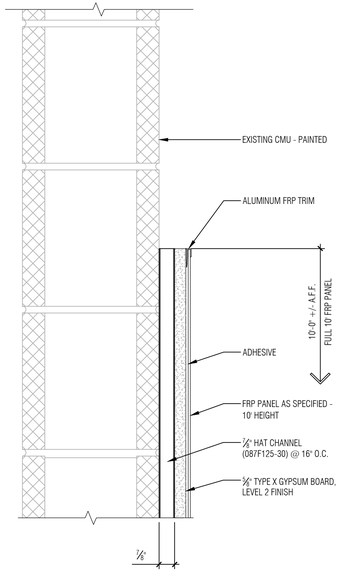

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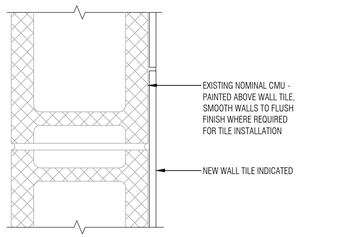
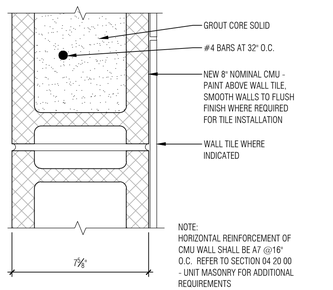


PLAN



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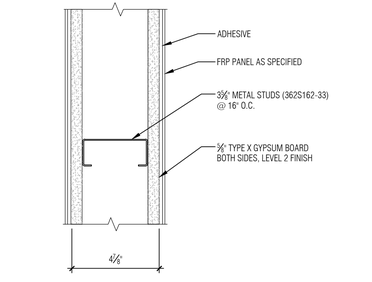

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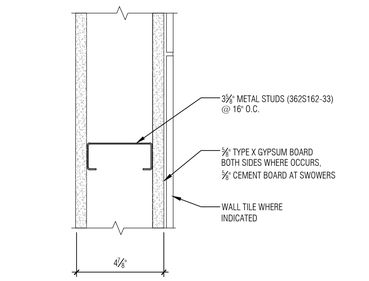

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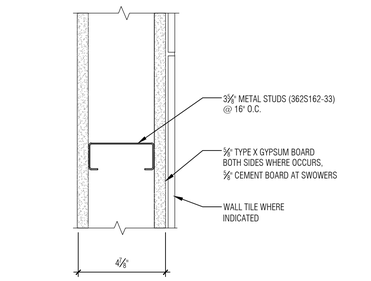

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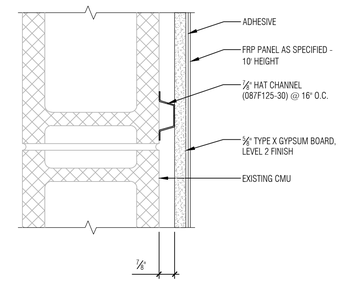

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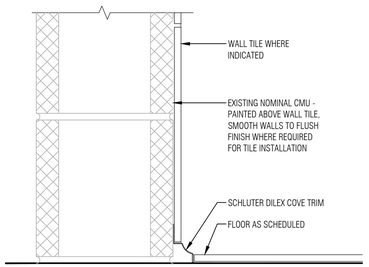

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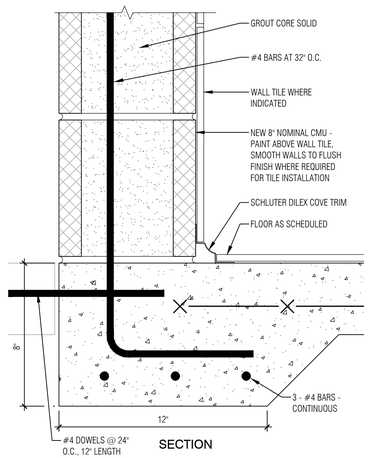

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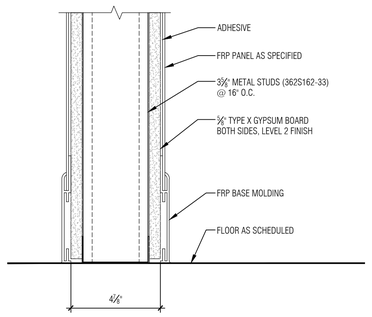

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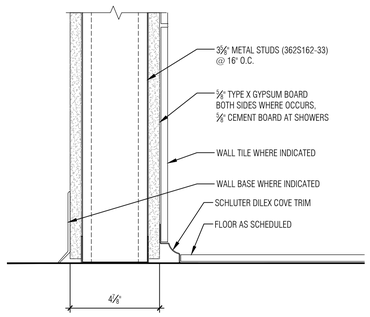
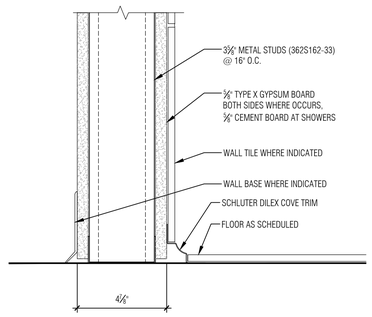


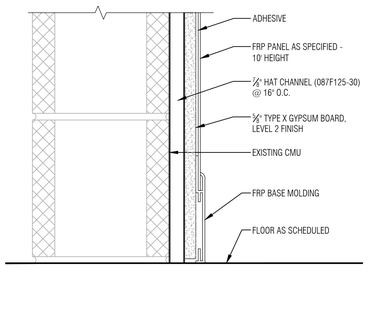
TYPICAL 3 5/8" METAL STUD WALL - PROVIDE 6" METAL STUDS (600S162-33) WHERE INDICATED ON PLAN

SECTION WHERE STUD WALL IS PERPENDICULAR TO BAR JOIST



TYPICAL 3 5/8" METAL STUD WALL - PROVIDE 6" METAL STUDS (600S162-33) WHERE INDICATED ON PLAN

SECTION WHERE STUD WALL IS PARALLEL TO BAR JOIST



SECTION

1 WALL TYPE
SCALE: 3"=1'-0"

2 WALL TYPE
SCALE: 3"=1'-0"

3 WALL TYPE
SCALE: 3"=1'-0"

4 WALL TYPE
SCALE: 3"=1'-0"

5 WALL TYPE
SCALE: 3"=1'-0"

6 WALL TYPE
SCALE: 3"=1'-0"

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TODD T. KINKEL REGISTERED NO PE-A0666 STATE OF INDIANA PROFESSIONAL ENGINEER
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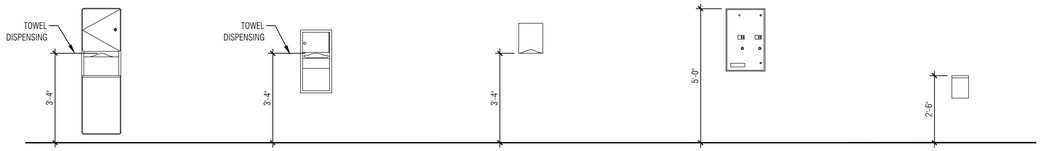
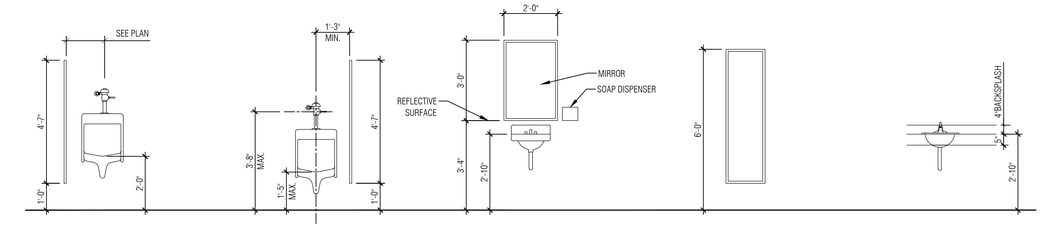
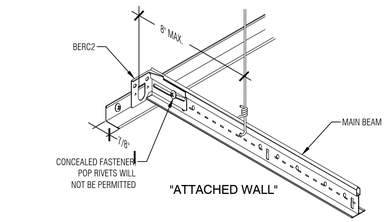
SHEET NO.
G0.2
WALL CONSTRUCTION TYPES



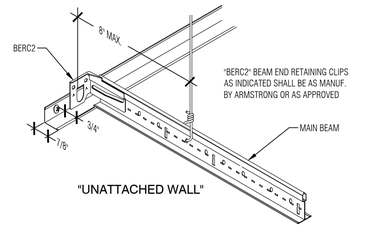
PAPER TOWEL DISPENSER & WASTE | PAPER TOWEL DISPENSER & WASTE | PAPER TOWEL DISPENSER | SANITARY NAPKIN & TAMPON DISPENSER | SURFACE/PARTITION MOUNT SANITARY NAPKIN DISPOSAL



URINAL | ACCESSIBLE URINAL | LAVATORY | FULL LENGTH MIRROR | LAVATORY



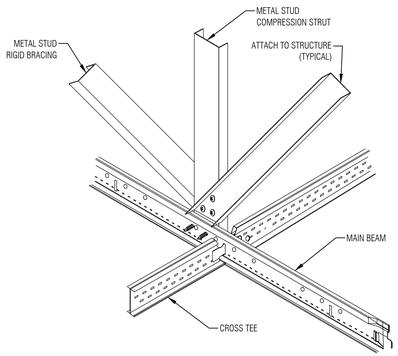
"ATTACHED WALL"



"UNATTACHED WALL"

CEILING SEISMIC RESTRAINT

NOT TO SCALE



CEILING BRACING ARRAY

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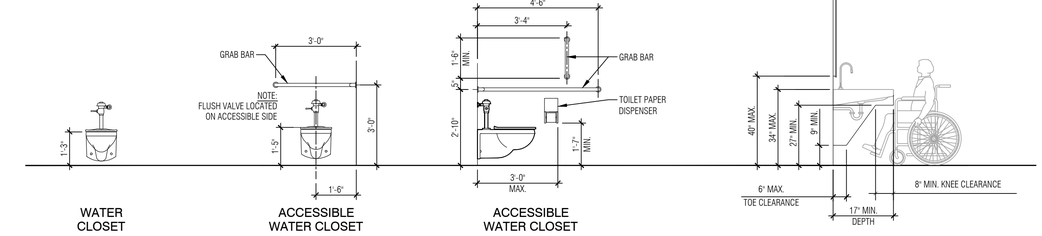
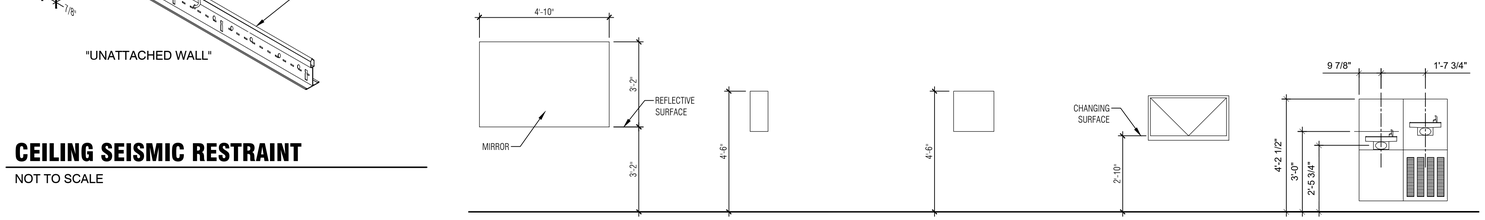
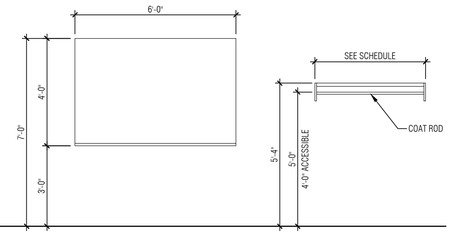


WATER CLOSET | ACCESSIBLE WATER CLOSET | ACCESSIBLE WATER CLOSET



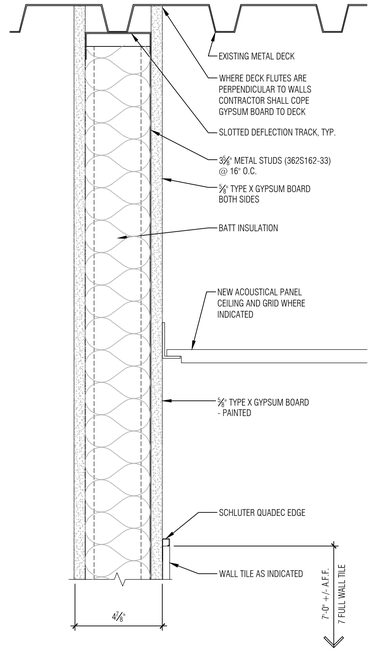
MIRROR | FIRE EXTINGUISHER CABINET | FIRE HOSE CABINET | DIAPER CHANGING UNIT | WATER COOLER



MARKERBOARD | COAT ROD AND SHELF

STANDARD MOUNTING HEIGHTS

SCALE: 3/8"=1'-0"



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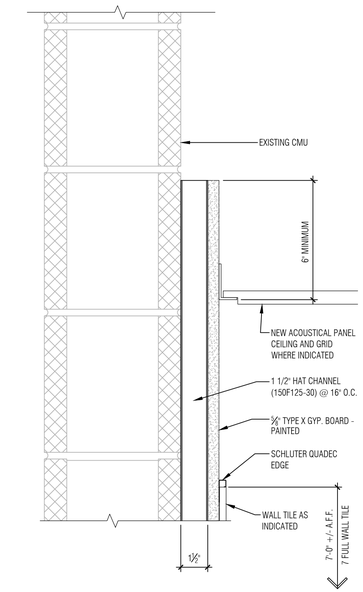

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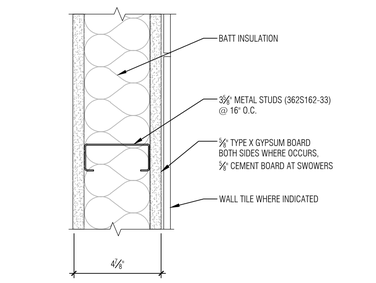
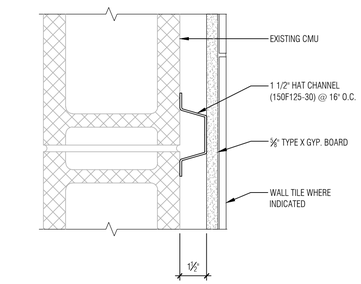
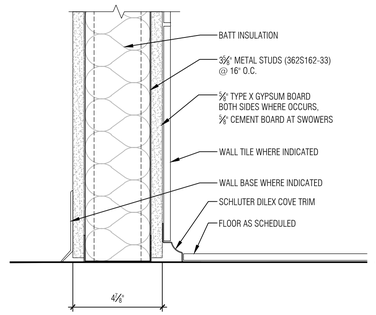


PLAN

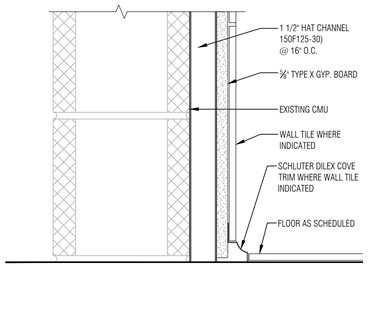


PLAN



TYPICAL 3 ⅝" METAL STUD WALL - PROVIDE 6" METAL STUDS (600S162-33) WHERE INDICATED ON PLAN

SECTION



PROVIDE RUBBER COVE BASE IN LIEU OF DILEX EDGE WHERE INDICATED

SECTION

7 WALL TYPE

SCALE: 3"=1'-0"

8 WALL TYPE

SCALE: 3"=1'-0"

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MICHAEL ANTHONY MOHR REGISTERED 10300009 STATE OF INDIANA ARCHITECT
05-31-2024

JASON T. KINKEL REGISTERED PE-00866 STATE OF INDIANA PROFESSIONAL ENGINEER
05/31/2024

TERRE HAUTE RC FEMALE LATRINE EXPANSION
INDIANA NATIONAL GUARD
IFB NO: MDI-SAB-24-B-002
3614 MAPLE AVENUE
TERRE HAUTE, INDIANA 47804

SHEET NO.
G0.3
STANDARD MOUNTING HEIGHTS/DETAILS

KEYNOTES:

BASE BID

1. CONTRACTOR PARKING AND STAGING AREA AS INDICATED BY HATCHING. CONTRACTOR PARKING AND STAGING TO OCCUR ONLY IN DESIGNATED AREA.
2. EXISTING CONCRETE PAD TO BE USED FOR CONSTRUCTION DUMPSTER.
3. CONSTRUCTION ENTRANCE TO BUILDING. COORDINATE USE OF OVERHEAD DOOR WITH OWNER AT TIME OF CONSTRUCTION.
4. CONTRACTOR SHALL PROVIDE PORTABLE TOILETS FOR OWNER USE THROUGHOUT CONSTRUCTION PROJECT. LOCATION SHOW APPROXIMATE, VERIFY PLACEMENT WITH OWNER AT TIME OF CONSTRUCTION. GRADE AREA SMOOTH WHERE TOILETS ARE PLACED. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PORTABLE TOILETS THROUGHOUT CONSTRUCTION. PROVIDE PORTABLE TOILETS AS NOTED OR APPROVED EQUAL:

   MANUFACTURER: POLYJOHN

   MODEL: PJN3
   QUANTITY: FIVE (5)
   COLOR: LIGHT GRAY

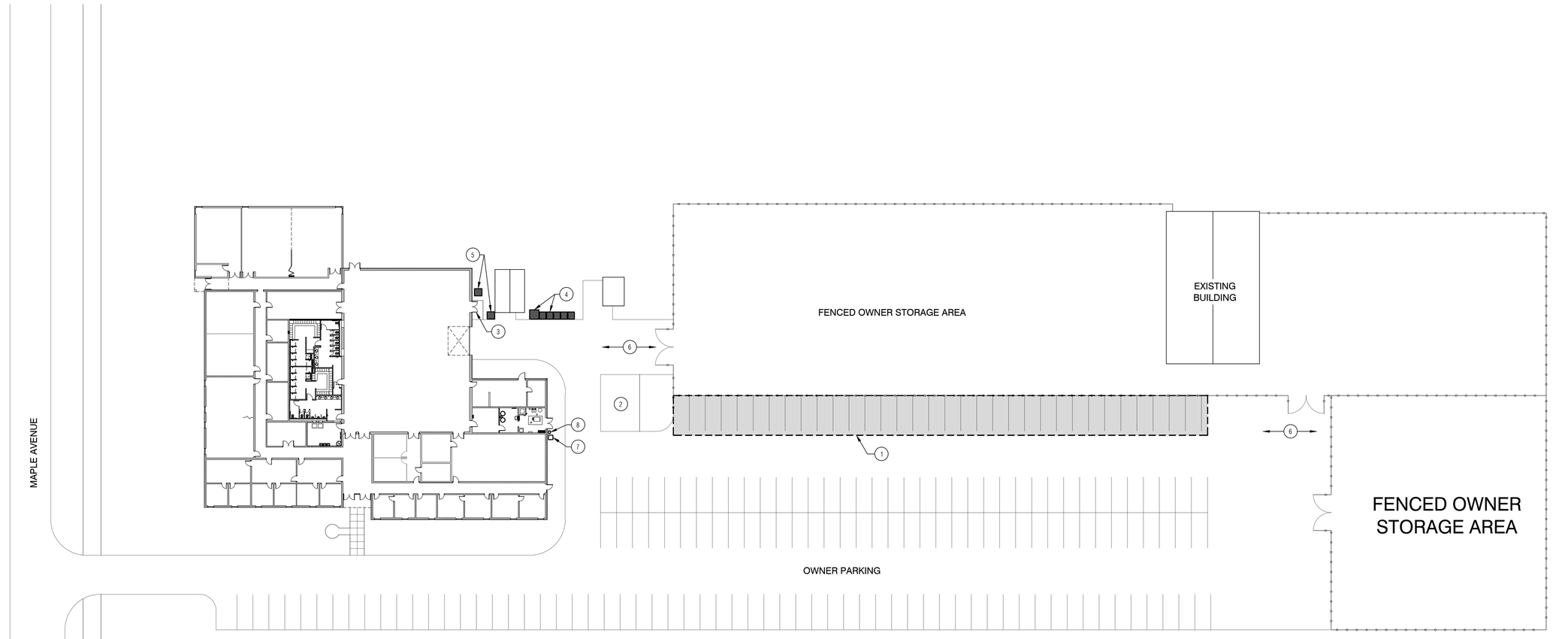
   MODEL COMFORT XL (ADA COMPLIANT)
   QUANTITY: ONE (1)
   COLOR: LIGHT GRAY
5. CONTRACTOR SHALL PROVIDE HANDWASH STATIONS FOR OWNER USE THROUGHOUT CONSTRUCTION PROJECT. LOCATION SHOW APPROXIMATE, VERIFY PLACEMENT WITH OWNER AT TIME OF CONSTRUCTION. GRADE AREA SMOOTH WHERE TOILETS ARE PLACED. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING HANDWASH STATIONS THROUGHOUT CONSTRUCTION. PROVIDE HANDWASH STATIONS AS NOTED OR APPROVED EQUAL:

   MANUFACTURER: POLYJOHN

   MODEL: APPLAUSE
   QUANTITY: TWO (2)
6. MAINTAIN ACCESS ENTRANCE GATES CLEAR AT ALL TIMES.
7. EXISTING UTILITY TRANSFORMER TO REMAIN.
8. EXISTING NATURAL GAS METER TO REMAIN.

GENERAL PROJECT NOTES:

1. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR ALL WORK RELATED TO THEIR TRADE ON ALL CONSTRUCTION DRAWINGS.
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK - ANY DISCREPANCIES SHALL CONFORM TO ACTUAL EXISTING CONDITIONS UPON APPROVAL OF OWNER - REPORT ANY DISCREPANCIES TO OWNER PRIOR TO THE CONTINUATION OF WORK.
3. WHERE A KEYNOTE IS INDICATING WORK TO BE PERFORMED, THE KEYNOTE IS INTENDED TO BE TYPICAL FOR ALL LOCATIONS. PERFORM WORK AT ALL LOCATIONS WHERE OCCURS AS REQUIRED TO COMPLETE WORK UNLESS OTHERWISE INDICATED.
4. CONTRACTOR SHALL PROVIDE EXTERIOR PORTABLE TOILETS AND HANDWASH STATIONS AS NOTED. TOILETS AND HANDWASH STATIONS PROVIDED FOR OWNER SHALL NOT BE FOR CONTRACTOR USE - CONTRACTOR SHALL PROVIDE SEPARATE TOILETS AND HANDWASH STATIONS FOR CONTRACTOR USE. VERIFY PLACEMENT OF ALL PORTABLE TOILETS AND HANDWASH STATIONS WITH OWNER AT TIME OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL EXTERIOR PAVED, CONCRETE AND LAWN/LANDSCAPED AREAS FROM DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES. REPAIR/REPLACEMENT SHALL BE MADE WITH LIKE MATERIALS.
6. BUILDING WILL REMAIN IN USE BY OWNER THROUGHOUT CONSTRUCTION. COORDINATE ALL DEMOLITION AND CONSTRUCTION ACTIVITIES WITH OWNER. PROVIDE 72 HOUR NOTICE TO OWNER PRIOR TO DISCONNECTING UTILITIES THAT AFFECT PORTIONS OF THE BUILDING OUTSIDE THE CONSTRUCTION AREAS.



PLAN N **SITE PLAN**
SCALE: 1"=30'-0"

0 5' 10' 30' 60'

ISSUE	DESCRIPTION	DATE
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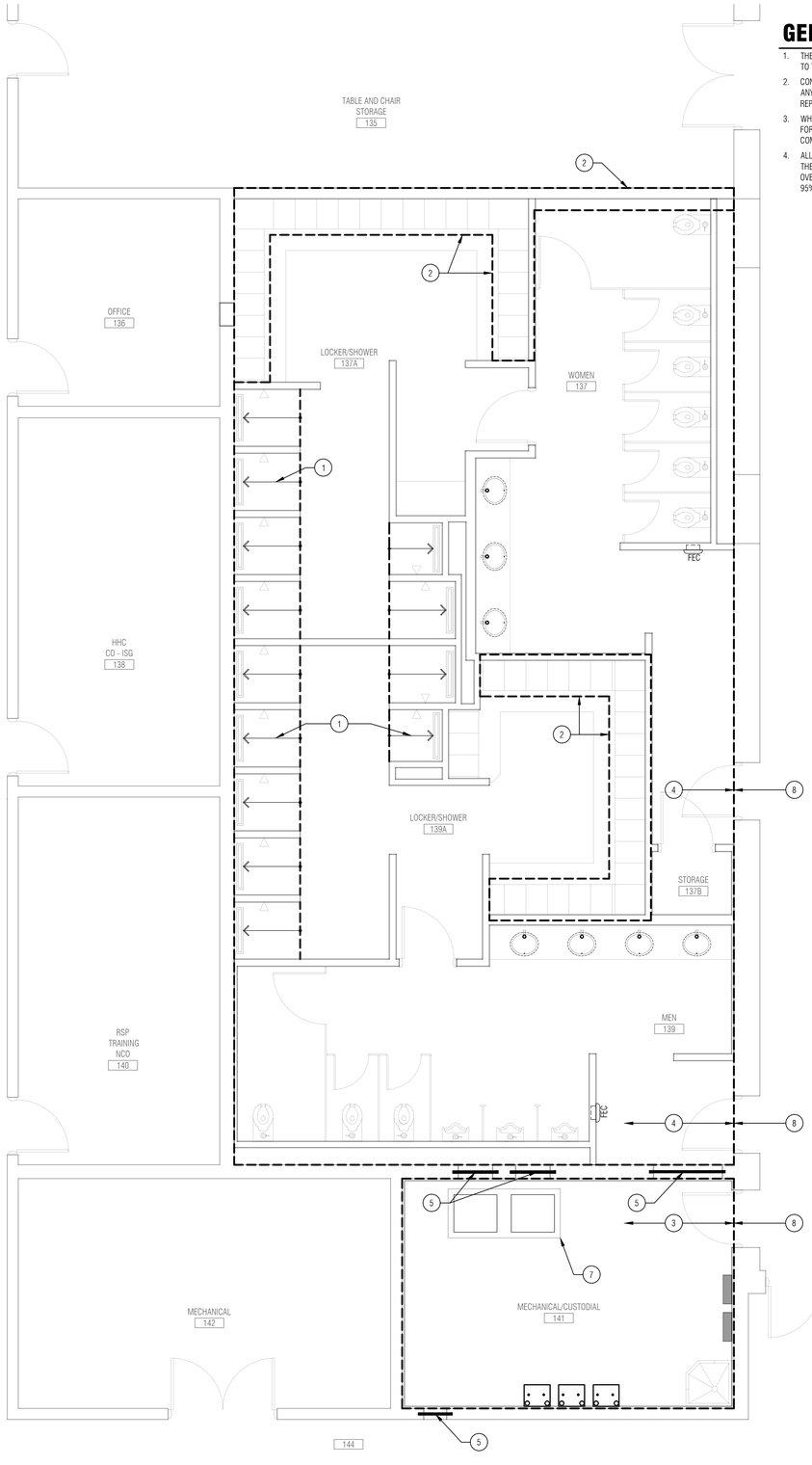
SHEET NO.
C2.1
SITE PLAN



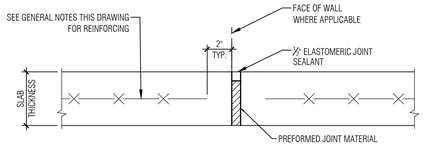
PLAN N **SLAB/LINTEL PLAN - AREA A**

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

0 1' 2' 4' 8'

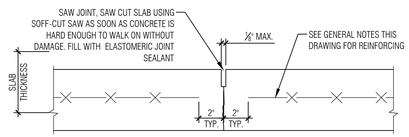
GENERAL NOTES:

1. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR ALL WORK RELATED TO THEIR TRADE ON ALL CONSTRUCTION DRAWINGS.
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK - ANY DISCREPANCIES SHALL CONFORM TO ACTUAL EXISTING CONDITIONS UPON APPROVAL OF OWNER - REPORT ANY DISCREPANCIES TO OWNER PRIOR TO THE CONTINUATION OF WORK.
3. WHERE A KEYNOTE IS INDICATING WORK TO BE PERFORMED, THE KEYNOTE IS INTENDED TO BE TYPICAL FOR ALL LOCATIONS. PERFORM WORK AT ALL LOCATIONS WHERE OCCURS AS REQUIRED TO COMPLETE WORK UNLESS OTHERWISE INDICATED.
4. ALL INTERIOR CONC. SLABS SHALL BE 4" THICK CONCRETE WITH 6x6-W4.0xW4.0 WWR, CENTERED IN THE SLAB. SUPPORT WWR WITH CHAIRS SPACED PER MANUFACTURER REQUIREMENT TO AVOID SAG. OVER BELOW-SLAB VAPOR RETARDER AND 4" COMPACTED #53 CRUSHED LIMESTONE, COMPACTED TO 95% MODIFIED PROCTOR.



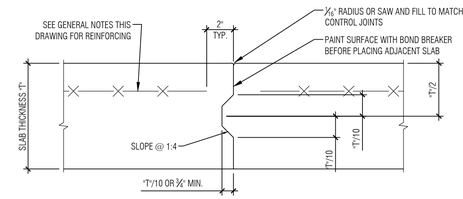
1 SLAB/COL. ISOLATION JOINT DETAIL

NOT TO SCALE



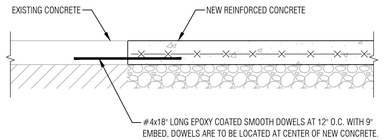
2 SLAB CONTROL JOINT

NOT TO SCALE



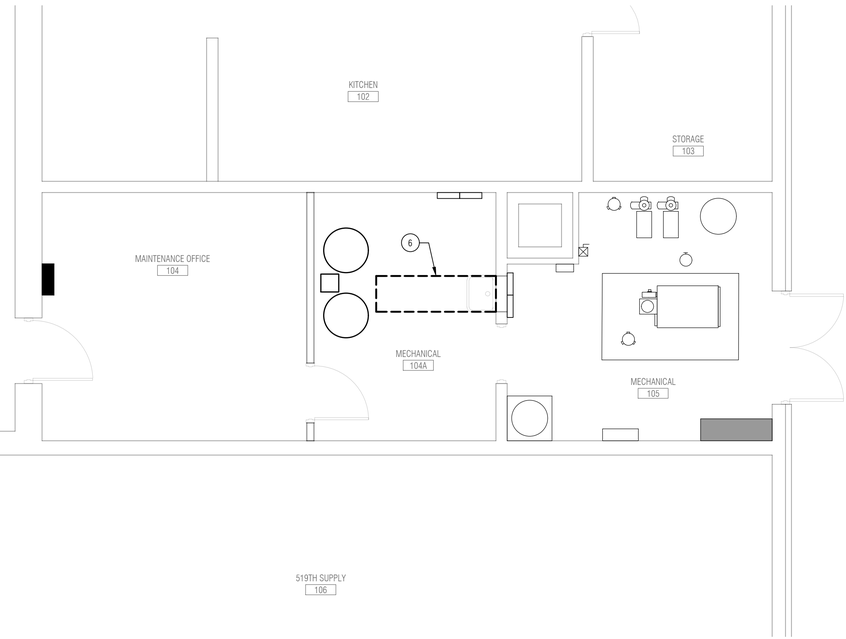
3 SLAB CONSTRUCTION JOINT DETAIL

NOT TO SCALE



4 SECTION - CONSTRUCTION JOINT

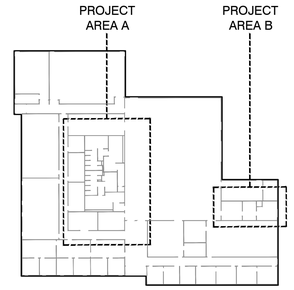
NOT TO SCALE



PLAN N **SLAB/LINTEL PLAN - AREA B**

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

0 1' 2' 4' 8'



PLAN N **KEY PLAN**

NOT TO SCALE

KEYNOTES:

BASE BID

1. SLOPE 1:48 - TYPICAL FOR ALL SHOWERS.
2. THICKENED SLAB UNDER LOCKER BASES AND NEW CMU WALL.
3. POUR SLAB FLUSH WITH DRILL FLOOR.
4. DEPRESSED CONCRETE SLAB SO NEW FLOOR TILE IS FLUSH WITH DRILL FLOOR.
5. COORDINATE EXACT SIZE WITH NEW DUCT PENETRATIONS. NEW OPENING SHALL MATCH MASONRY COURSING DIMENSIONS. REMOVE EXISTING MASONRY AT OPENING AND ONE COURSE ABOVE, SUPPORT EXISTING WALL AFTER REMOVAL. FURNISH AND INSTALL NEW SOLID BOTTOM REINFORCED CMU BOND BEAM. REINFORCE WITH (2) #5 BARS HORIZONTAL CONTINUOUS AND GROUT SOLID. GROUT BY MAKING ACCESS IN COURSE ABOVE BOND BEAM. REPAIR ACCESS HOLE WITH CMU FACE SLAB/SOAP MORTARED.
6. NEW SLAB POUR NEW CONCRETE SLAB FLUSH WITH ADJACENT SLAB.
7. NEW 4' HOUSE KEEPING PAD - VERIFY SIZE TO ACCOMMODATE SCHEDULED EQUIPMENT.
8. PROVIDE TWO (2), #4 BARS, 12" LONG CENTERED IN SLAB AT JOINT OF NEW AND EXISTING CONCRETE.

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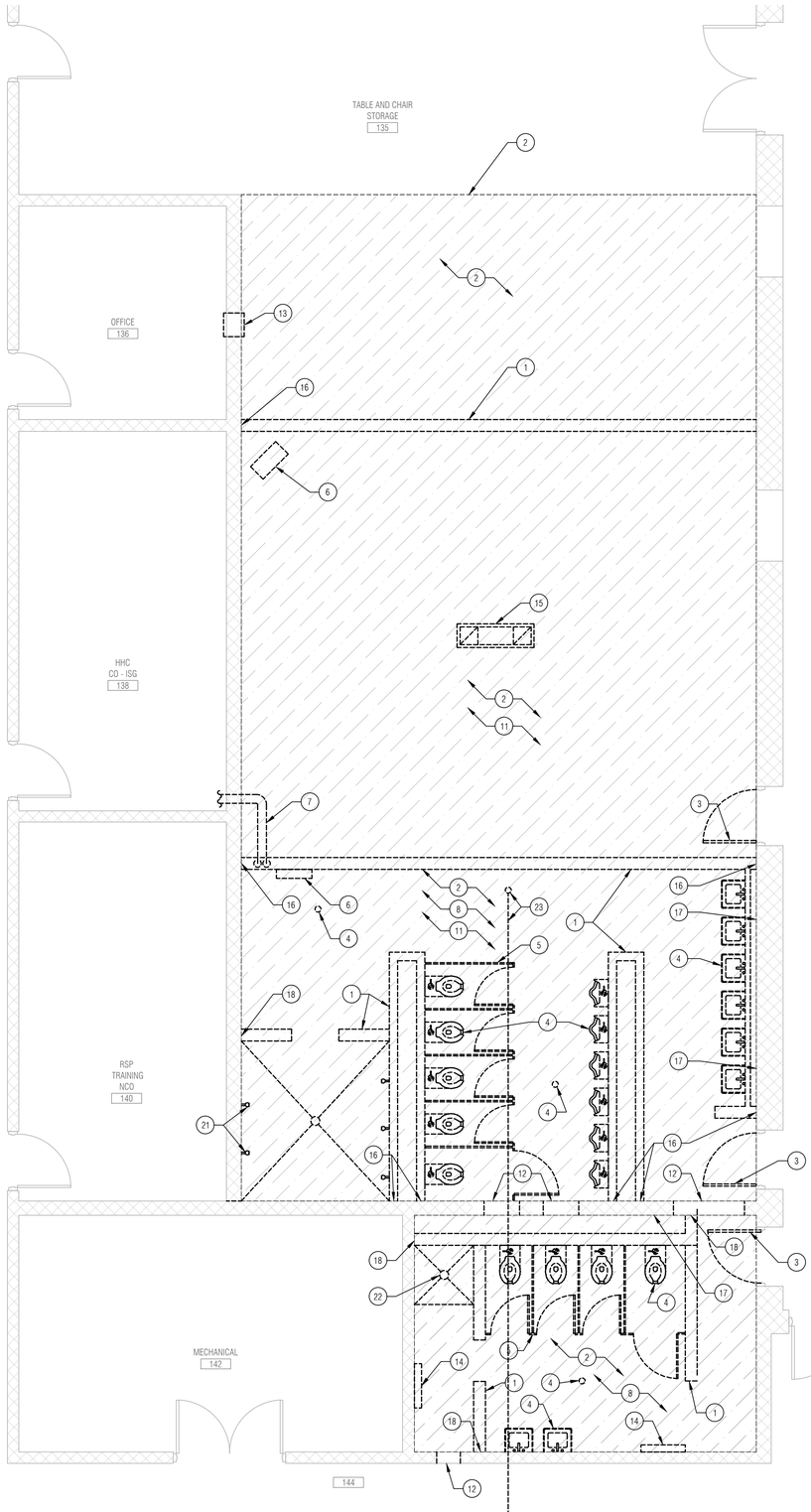
SLAB PLAN
LINTEL PLAN



PLAN N **DEMOLITION PLAN - AREA A**

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

0 1' 2' 4' 8'

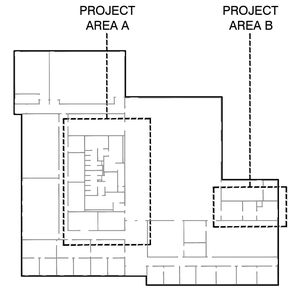
GENERAL DEMOLITION NOTES:

1. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR ALL WORK RELATED TO THEIR TRADE ON ALL CONSTRUCTION DRAWINGS.
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK - ANY DISCREPANCIES SHALL CONFORM TO ACTUAL EXISTING CONDITIONS UPON APPROVAL OF ARCHITECT/ENGINEER - REPORT ANY DISCREPANCIES TO OWNER PRIOR TO THE CONTINUATION OF WORK.
3. WHERE A KEYNOTE IS INDICATING WORK TO BE PERFORMED, THE KEYNOTE IS INTENDED TO BE TYPICAL FOR ALL LOCATIONS. PERFORM WORK AT ALL LOCATIONS WHERE OCCURS AS REQUIRED TO COMPLETE WORK UNLESS OTHERWISE INDICATED.
4. GENERAL DEMOLITION IN PROJECT AREA A SHALL INCLUDE THE FOLLOWING - REFER TO DEMOLITION KEYNOTES FOR ADDITIONAL DEMOLITION REQUIREMENTS IN PROJECT AREAS A AND B:
   a. REMOVE EXISTING FLOOR FINISHES WHERE REQUIRED FOR NEW CONSTRUCTION. INCLUDING CERAMIC TILE UNLESS OTHER WISE NOTED.
   b. REMOVE ALL GYPSUM BOARD AND EXISTING ACOUSTICAL CEILING PANELS AS REQUIRED IN CONSTRUCTION AREAS.
   d. REMOVE ALL EXISTING TOILET AND BATH ACCESSORIES INCLUDING PARTITIONS, DISPENSERS, TRASH RECEPTACLES AND RELATED ITEMS IN CONSTRUCTION AREAS UNLESS OTHERWISE NOTED.
   e. REMOVE ALL EXISTING CEILING MOUNTED LIGHT FIXTURES IN PROJECT AREA A - REMOVE ASSOCIATED CONDUIT NOT INDICATED FOR REUSE. REMOVE CABLING TO NEAREST JUNCTION BOX.
   f. REMOVE ALL EXISTING ELECTRICAL AND DATA OUTLETS - REMOVE EXPOSED CONDUIT NOT INDICATED FOR REUSE. REMOVE CABLING TO NEAREST JUNCTION BOX.
   g. REMOVE ALL EXISTING PLUMBING FIXTURES WHERE INDICATED AND ASSOCIATED PIPING UNLESS INDICATED FOR REUSE.
5. CONTRACTOR SHALL REFER TO G0.1 FOR EXISTING AND NEW WALL RATINGS TO BE MAINTAINED.
6. SELECTIVE DEMOLITION SHALL INCLUDE THE REMOVAL OF ALL ITEMS REQUIRED TO COMPLETE NEW CONSTRUCTION WORK WHETHER OR NOT SPECIFICALLY INDICATED ON DEMOLITION DRAWINGS.
7. SELECTIVE DEMOLITION WITHIN THE EXISTING BUILDING SHALL CONSIST OF THE REMOVAL OF ALL ITEMS NOT INDICATED ON NEW WORK DRAWINGS OR NOT REQUIRED FOR THE INCORPORATION OF NEW WORK ITEMS.
8. PROVIDE ALL NECESSARY TEMPORARY SHORING AND BRACING DURING DEMOLITION FOR ALL ITEMS EXISTING TO REMAIN.
9. AREAS OF DEMOLITION WORK SHALL BE CLEANED DAILY OF ALL DIRT, DUST, DEBRIS, UNSALVAGEABLE OR UN-REUSABLE ITEMS SHALL BE TOTALLY REMOVED FROM THE PROJECT SITE DAILY.
10. WHEN DEMOLITION CAUSES OR EXPOSES DAMAGE TO FLOOR, WALL OR CEILING FINISHES WHICH WILL REMAIN EXPOSED, THE CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED FINISHES TO MATCH EXISTING TO REMAIN.
11. EXISTING UNDERSLAB ABANDONED EMPTY CONDUITS AND PIPING SHALL BE CUT OFF EVEN WITH THE FLOOR. REROUTE ANY UNDERSLAB ELECTRIC TO REMAIN.
12. CONTRACTOR SHALL PATCH ALL EXISTING FLOOR PENETRATIONS AFTER DEMOLITION OF ALL EXISTING CONDUITS, PIPING, ETC.
13. EXISTING SLEEVES, HOLES, AND OTHER PENETRATIONS OR NEW DAMAGE OF EXISTING BUILDING STRUCTURE ABOVE GRADE EXPOSED BY DEMOTION AND REMOVAL OF PIPING, APPURTENANCES, EQUIPMENT SHALL BE PATCHED AND REPAIRED AS PART OF THE WORK.
15. OWNER WILL PROVIDE ONE (1) RECYCLE DUMPSTER FOR THE DURATION OF PROJECT FOR METAL RECYCLING. THE CONTRACTOR SHALL CONTRACT THE OWNER WHEN DUMPSTER IS FULL FOR OWNER TO EMPTY. ALL OTHER MATERIALS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
16. THE OWNER RESERVES THE RIGHT TO REMOVE EQUIPMENT AND FURNISHINGS - ALL ITEMS REMAINING IN BUILDING OR NOT INDICATED FOR REUSE OR TO SAVE FOR OWNER SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
17. WHERE PIPING IS REMOVED, REMOVE BACK TO NEAREST TEE/JUNCTION. NO DEAD LEGS SHALL REMAIN AFTER CONSTRUCTION.
18. IIT IS EXPECTED THAT UNDERGROUND ELECTRICAL FEEDERS EXIST BELOW SLABS FOR REMOVAL. CONTRACTOR SHALL DETERMINE LOCATIONS PRIOR TO DEMOLITION WORK AND PROTECT ALL FROM DAMAGE.

DEMOLITION KEYNOTES:

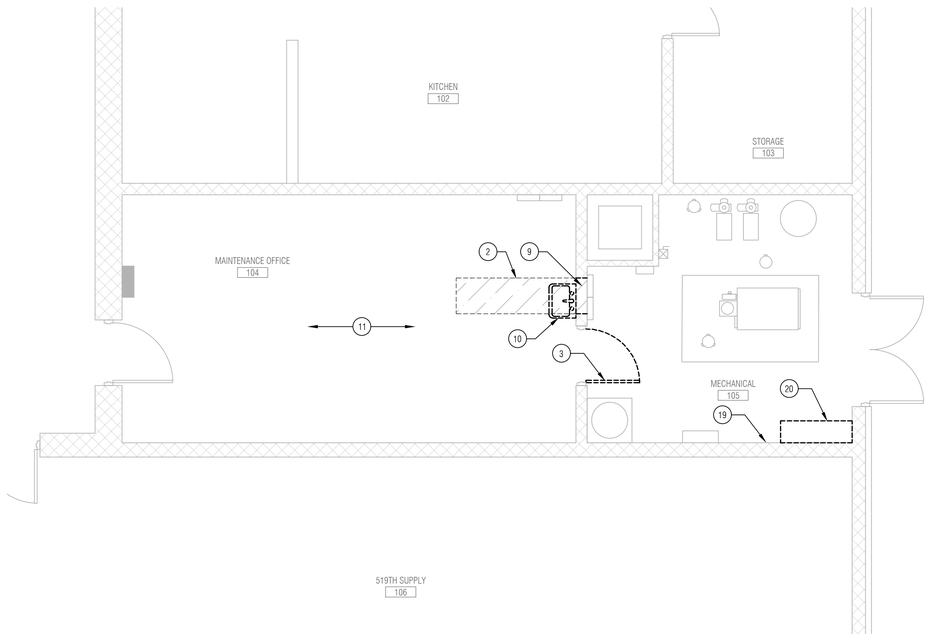
BASE BID

1. REMOVE EXISTING CMU WALL WHERE NOTED AND AS REQUIRED FOR NEW CONSTRUCTION.
2. REMOVE EXISTING CONCRETE FLOOR SLAB WHERE INDICATED BY HATCHING AND AS REQUIRED FOR NEW CONSTRUCTION.
3. REMOVE EXISTING DOOR AND HARDWARE. EXISTING FRAME TO REMAIN - REFER TO DOOR PLAN AND SCHEDULE. ABATE LEAD BASED PAINT ON EXISTING DOOR FRAME IF WHERE REQUOIRED AND PREPARE FOR NEW PAINT. REFER TO HAZARD MANAGEMENT PLAN IN PROJECT MANUAL FOR LOCATIONS OF LEAD BASED PAINTS.
4. REMOVE EXISTING PLUMBING FIXTURES, FLOOR DRAINS, CLEANOUTS AND ASSOCIATED PIPING AS REQUIRED FOR NEW CONSTRUCTION. REFER TO PLUMBING PLANS.
5. REMOVE EXISTING TOILET PARTITIONS AND ALL TOILET ACCESSORIES.
6. REMOVE EXISTING UNIT HEATER. REMOVE EXISTING WATER LINES TO NEAREST MAIN TO AVOID DEAD LEADS. REPAIR ALL WALL PENETRATIONS. REMOVE EXISTING PNEUMATIC CONTROL TUBING AND CAP AT MAIN. REMOVE EXISTING THERMOSTAT - REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
7. REMOVE EXISTING PIPING - PATCH EXISTING CMU WALL. SEE M3.1 FOR ADDITIONAL DETAILS.
8. REMOVE EXISTING GYPSUM BOARD CEILINGS.
9. REMOVE AND REPLACE EXISTING CMU WALL AS REQUIRED FOR SANITARY SEWER MODIFICATIONS INCLUDING PLUMBING VENT CONNECTION. REFER TO PLUMBING DRAWINGS.
10. REMOVE EXISTING WALL MOUNTED SINK. REFER TO PLUMBING DRAWINGS.
11. REMOVE EXISTING LIGHT FIXTURES.
12. REMOVE EXISTING CMU WALL WHERE REQUIRED FOR DUCTWORK/PIPING INSTALLATION - REFER TO STRUCTURAL DRAWINGS.
13. REMOVE EXISTING TRANSFER GRILL - INFILL CMU OPENING.
14. REMOVE EXISTING WALL CABINET/UNIT HEATER. REMOVE EXISTING WATER LINES TO NEAREST MAIN TO AVOID DEAD LEADS. REMOVE EXISTING PNEUMATIC CONTROL TUBING AND CAP AT MAIN. REMOVE EXISTING THERMOSTAT - REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
15. REMOVE EXISTING EXHAUST FAN AND DUCTWORK AND MAKE READY FOR NEW EXHAUST FAN. SEE MECHANICAL DRAWINGS FOR NEW WORK.
16. PATCH IN EXISTING CMU WALL TO REMAIN WHERE CMU WALL IS REMOVED AS REQUIRED TO PROVIDE SMOOTH WALL FOR NEW WALL TILE INSTALLATION. PATCH IN CMU ABOVE NEW WALL TILE EDGE WITH LIKE MATERIAL TO PREPARE WALL FOR PAINTING.
17. CLEAN ROUGH MORTAR FROM EXISTING CMU WALL TO REMAIN AS REQUIRED FOR NEW HAT CHANNEL INSTALLATION.
18. REMOVED ROUGH CMU AT EXISTING WALL TO REMAIN AS REQUIRED FOR NEW HAT CHANNEL INSTALLATION.
19. REMOVE ANY EXISTING CONDUITS, PHONE BOARD, UNUSED SWITCHES, AND ANY OTHER ITEM IN WAY OF NEW MSDP, SEE E DRAWINGS
20. REMOVE EXISTING MDP ELECTRICAL PANEL. PROTECT AND PREPARE EXISTING FEEDERS (SERVICE, GENRATOR, AND LOAD SIDE) FOR INSTALLATION AND CONNECTION TO NEW MSDP, SEE E DRAWINGS
21. REMOVE EXISTING SHOWER HEADS AND ASSOCIATED PLUMBING.
22. REMOVE EXISTING SHOWER DRAIN AND ASSOCIATED PLUMBING.
23. REMOVE EXISTING PLUMBING CLEANOUT AND 4" SEWER BRANCH. REMOVE ALL BELOW SLAB PLUMBING WHETHER INDICATED OR NOT.



PLAN N **KEY PLAN**

NOT TO SCALE



PLAN N **DEMOLITION PLAN - AREA B**

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

0 1' 2' 4' 8'

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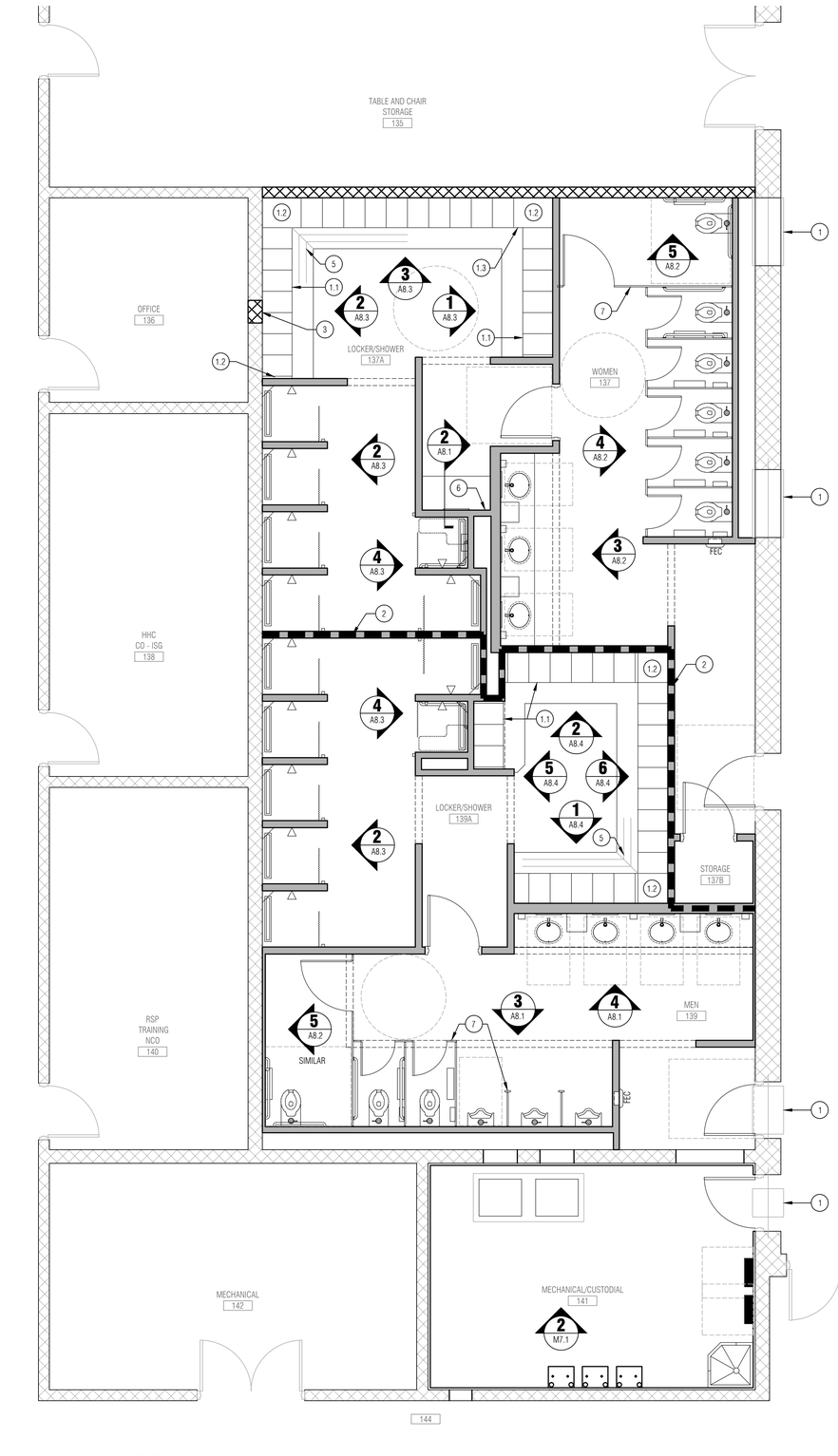
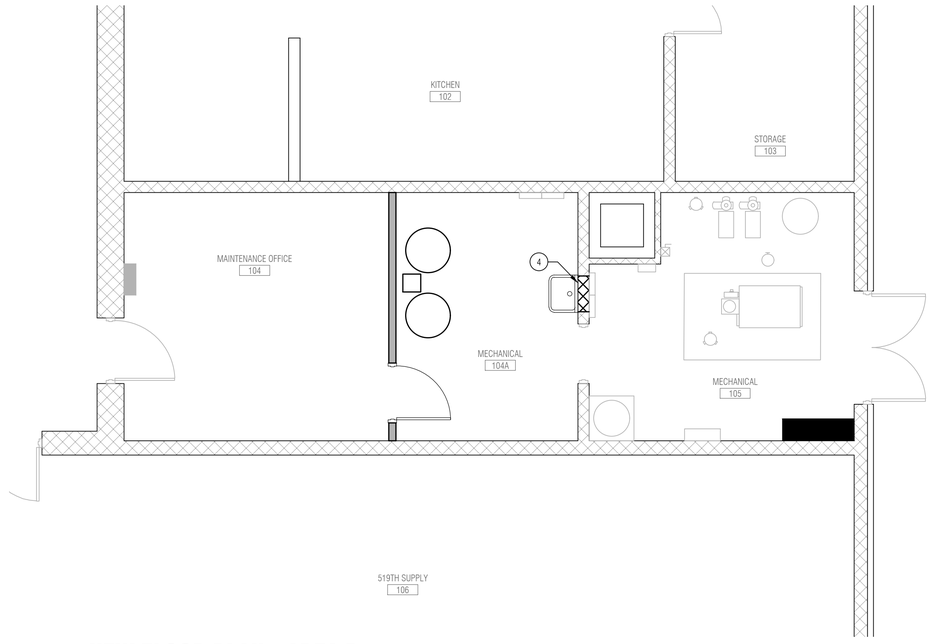
DEMOLITION PLAN



PLAN N **NEW FLOOR PLAN - AREA A**

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



PLAN N **NEW FLOOR PLAN - AREA B**

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

KEYNOTES:

BASE BID

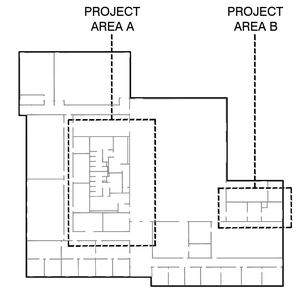
1. MAINTAIN EXISTING FIRE DAMPER AT MASONRY OPENING.
2. EXTEND WALL TO DECK WHERE INDICATED BY DASHED LINE.
3. INFILL OPENING WHERE TRANSFER GRILL IS REMOVED WITH NEW CMU - REMOVE PARTIAL CMU AND REPLACE WITH FULL CMU WHERE REQUIRED.
4. INFILL OPENING WHERE CMU IS REMOVED FOR PLUMBING WORK - REMOVE PARTIAL CMU AND REPLACE WITH FULL CMU WHERE REQUIRED.
5. MITER WOOD BENCH BOARDS AT CORNERS - TYPICAL.
6. VERIFY STUD PLACEMENT THIS WALL TO ACCOMMODATE PREP COUNTER SUPPORT BRACKETS - REFER TO DETAIL 1/A8.1.
7. NEW TOILET PARTITIONS/SCREENS AS SPECIFIED.

ALTERNATE BID ITEM #1

1.1. NEW LOCKERS, SEE SPECIFICATION SECTION 10 51 13 FOR ADDITIONAL DETAILS.

1.2. PROVIDE SOLID METAL TOP AT ALL OPENINGS AND VOIDS BETWEEN LOCKERS.

1.3. PROVIDE METAL VERTICAL FILLER PANELS WHERE REQUIRED.



PLAN N **KEY PLAN**

NOT TO SCALE

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3. WHERE A KEYNOTE IS INDICATING WORK TO BE PERFORMED, THE KEYNOTE IS INTENDED TO BE TYPICAL FOR ALL LOCATIONS. PERFORM WORK AT ALL LOCATIONS WHERE OCCURS AS REQUIRED TO COMPLETE WORK UNLESS OTHERWISE INDICATED.
4. PROVIDE WOOD BLOCKING AT ALL STUD WALL LOCATIONS WHERE WALL MOUNTED DEVICES/FIXTURES OCCUR. ALL WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED.

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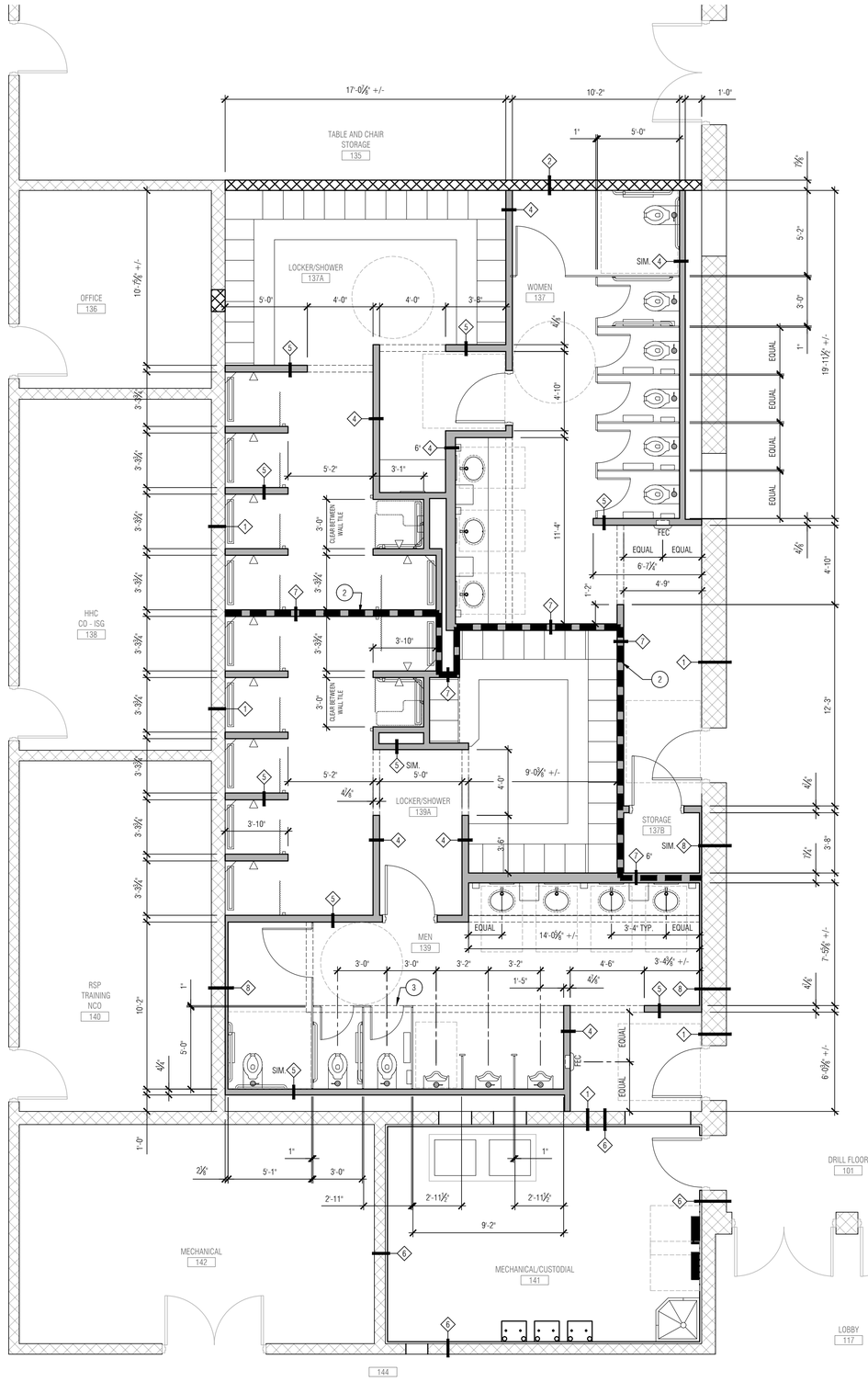
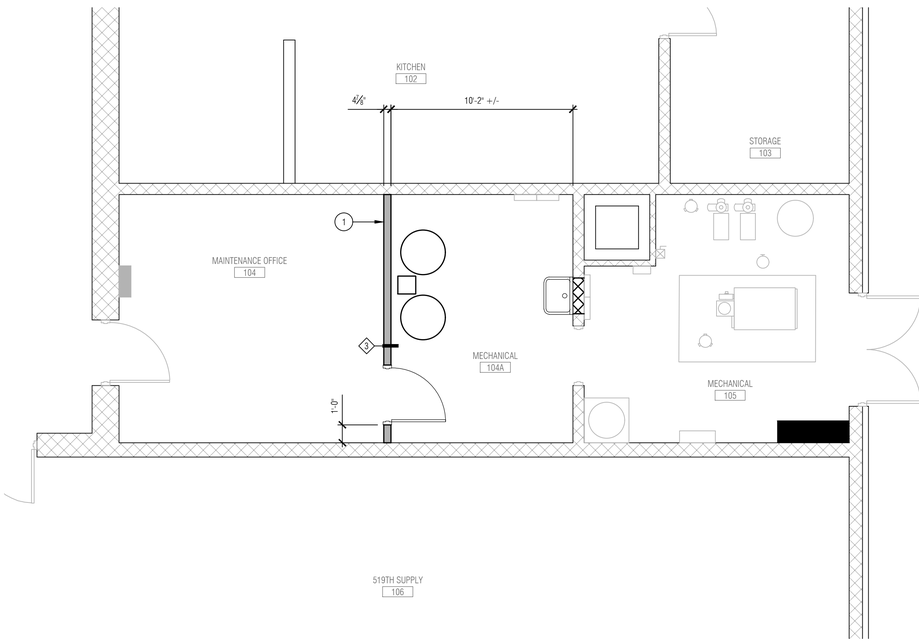
FLOOR PLAN



PLAN **DIMENSION FLOOR PLAN - AREA A**

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

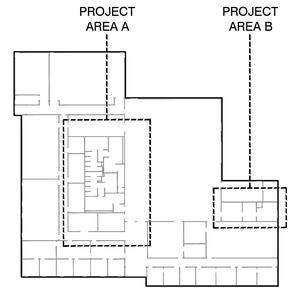
0 1' 2' 4' 8'



PLAN **DIMENSION FLOOR PLAN - AREA B**

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

0 1' 2' 4' 8'



PLAN **KEY PLAN**

NOT TO SCALE

GENERAL NOTES:

1. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR ALL WORK RELATED TO THEIR TRADE ON ALL CONSTRUCTION DRAWINGS.
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK - ANY DISCREPANCIES SHALL CONFORM TO ACTUAL EXISTING CONDITIONS UPON APPROVAL OF OWNER - REPORT ANY DISCREPANCIES TO OWNER PRIOR TO THE CONTINUATION OF WORK.
3. DIMENSIONS SHOWN ARE FROM FACE OF GYP. BOARD TO FACE OF GYP. BOARD OR FACE OF CMU TO FACE OF CMU UNLESS OTHERWISE NOTED.
4. WHERE A KEYNOTE IS INDICATING WORK TO BE PERFORMED, THE KEYNOTE IS INTENDED TO BE TYPICAL FOR ALL LOCATIONS. PERFORM WORK AT ALL LOCATIONS WHERE OCCURS AS REQUIRED TO COMPLETE WORK UNLESS OTHERWISE INDICATED.

KEYNOTES:

BASE BID

1. CENTER WALL ON EXISTING BAR JOIST ABOVE.
2. EXTEND WALL TO DECK WHERE INDICATED BY DASHED LINE.
3. ALIGN BULKHEAD/WALL WITH FACE OF TOILET PARTITON.

ISSUE	DESCRIPTION	DATE
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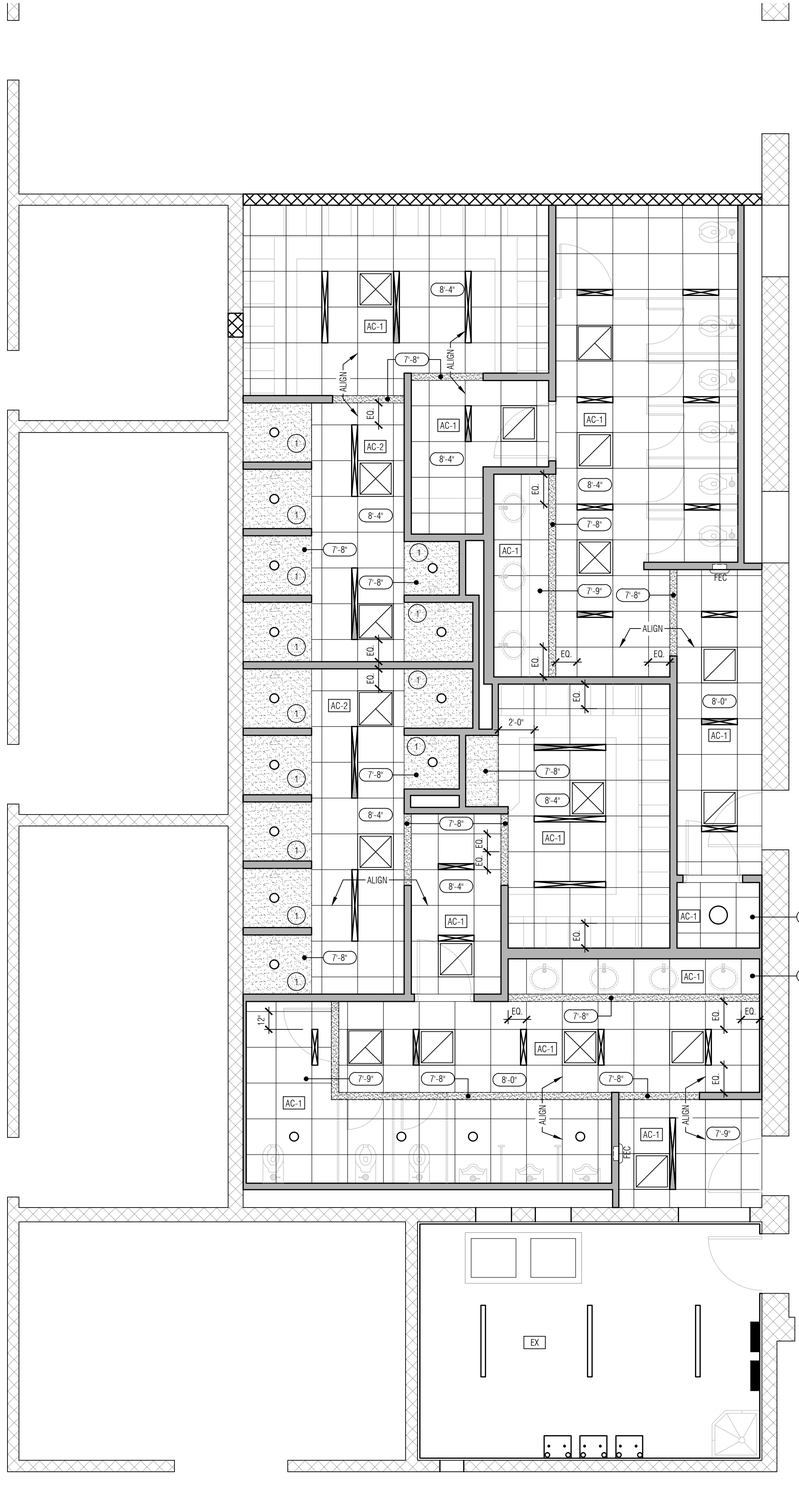
A3.1

DIMENSION PLAN



PLAN N **REFLECTED CEILING PLAN - AREA A**

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

0 1 2 4 8

GENERAL CEILING REQUIREMENTS:

REQUIREMENTS FOR ALL CEILINGS

1. INSTALLATION MUST CONFORM TO INDIANA BUILDING CODE (IBC 2014), CATEGORY B.
2. BERC2 WALL MOULDINGS.
3. GRID MUST BE ATTACHED TO TWO ADJACENT WALLS -OPPOSITE WALLS MUST HAVE A 3/4" CLEARANCE.
4. ENDS OF MAIN BEAMS AND CROSS TEES MUST BE TIED TOGETHER TO PREVENT THEIR SPREADING.
5. GRID SYSTEM CEILING AREAS OVER 1,000 SF MUST HAVE COMPRESSION STRUTS AND HORIZONTAL RESTRAINT BRACING. SEE DETAIL ENTITLED CEILING BRACING ARRAY.
6. CEILING AREAS OVER 2,500 SF MUST HAVE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTITIONS CEILINGS WITHOUT RIGID BRACING MUST HAVE 2" OVERSIZED TRIM RINGS FOR SPRINKLERS AND OTHER PENETRATIONS.
7. CHANGES IN CEILING PLANE MUST HAVE POSITIVE BRACING.
8. CABLE TRAYS AND ELECTRICAL CONDUITS MUST BE INDEPENDENTLY SUPPORTED AND BRACED.
9. SUSPENDED CEILINGS WILL BE SUBJECT TO SPECIAL INSPECTION.
10. PERIMETER SUPPORT WIRES.
11. LOCATE A BRACING ARRAY AT A CROSSTEE /MAIN BEAM INTERSECTION NOT MORE THAN SIX FEET FROM THE PERIMETER OF THE GRID IN EACH DIRECTION. THE BRACING PATTERN IS TO BE REPEATED EVERY 12 FEET IN EACH DIRECTION.
12. BRACING AND STRUTS SHALL BE CAPABLE OF RESISTING THE LOAD IMPOSED BY SEISMIC FORCES.
13. STRUT AND BRACING STUDS SHALL BE ATTACHED TO THE MAIN BEAM AT THE CENTER OF THE BRACING ARRAY.
14. AT ALL CUT TILES, CUT EDGES SHALL BE TREATED PER MANUF. INSTRUCTIONS TO MATCH FACTORY FINISHED EDGES.

GYPSUM BOARD CEILING/BULKHEAD NOTES:

1. COMPLETE SYSTEM SHALL BE EQUIVALENT TO USG DRYWALL SUSPENSION SYSTEMS - COMMERCIAL QUALITY, COLD-ROLLED STEEL, HOT-DIPPED GALVANIZED FINISH. COMPONENTS AND INSTALLATION SHALL BE AS FOLLOWS. EQUIVALENT SYSTEMS BY ARMSTRONG AND CHICAGO METALLIC SHALL BE CONSIDERED EQUAL.
2. MAIN TEES: FIRE-RATED HEAVY DUTY CLASSIFICATION 1-1/2" HIGH X 144" LONG, INTEGRAL REVERSIBLE SPLICE WITH KNURLED FACE. (DGLW-26 1-1/2" FACE)
3. CROSS MEMBERS: FIRE-RATED MEMBERS WITH KNURLED FACE. CROSS TEES: DGLW-424 CROSS TEE 1-1/2" HIGH X 48" LONG WITH 1-1/2" WIDE FACE; QUICK RELEASE CROSS TEE ENDS FOR POSITIVE LOCKING AND REMOVABILITY WITHOUT TOOLS.
4. IF SYSTEM COMPONENTS ARE NOT AVAILABLE, USE METAL STUDS AS REQUIRED FOR BULKHEAD CONSTRUCTION AND OTHER SPECIALTY AREAS.
5. ACCESSORY CROSS TEES: CROSS TEES MUST HAVE KNURLED FACES AND QUICK RELEASE CROSS TEE ENDS FOR POSITIVE LOCKING AND REMOVABILITY WITHOUT TOOLS. EXACT SIZES SHALL BE SELECTED BY FACTORY REPRESENTATIVE AS REQUIRED FOR APPLICATION.
6. SECURE HANGERS OR RODS TO STRUCTURAL SUPPORT BY CONNECTING DIRECTLY TO STRUCTURE WHERE POSSIBLE; OTHERWISE CONNECT TO INSERTS, CLIPS OR OTHER ANCHORAGE DEVICES OR OTHER FASTENERS AS APPROVED.
7. SPACE MAIN RUNNERS, HANGERS AND FURRING ACCORDING TO REQUIREMENTS OF ASTM C754, EXCEPT AS OTHERWISE INDICATED.
8. WHERE SPACING OF STRUCTURAL MEMBERS, OR WIDTH OF DUCTS OR OTHER EQUIPMENT, PREVENTS REGULAR SPACING OF HANGERS, PROVIDE SUPPLEMENTAL HANGERS AND SUSPENSION MEMBERS AND REINFORCE NEAREST AFFECTED HANGERS TO SPAN EXTRA DISTANCE.

CEILING TYPES:

REFER TO DRAWING A10.1 FOR CEILING PAINT COLORS. ALTERNATE MANUFACTURERS FOR SCHEDULED MATERIALS ACCEPTED AS APPROVED BY ARCHITECT/ENGINEER PRIOR

AC-1 CEILING TILE
- MANUFACTURER: ARMSTRONG
- STYLE: CALA TEGULAR, NRC 0.85, CAC35
- COLOR: WHITE
- SIZE: 24" x 24" x 1" - SQUARE TEGULAR
- FIRE RATING: ASTM E84 CLASS A

AC-2 CEILING TILE
- MANUFACTURER: ARMSTRONG
- STYLE: CERAMAGUARD
- COLOR: WHITE
- SIZE: 24" x 24" x 1" SQUARE

GRID FOR ALL AREAS
- MANUFACTURER: ARMSTRONG
- SERIES: PRELUDE XL
- SIZE: 15/16" WIDTH
- COLOR: WHITE

NOTES:
FRAMING SHALL COMPLY WITH INTERMEDIATE CLASSIFICATION OF ASTM C 635, "STANDARD SPECIFICATION FOR METAL SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS."

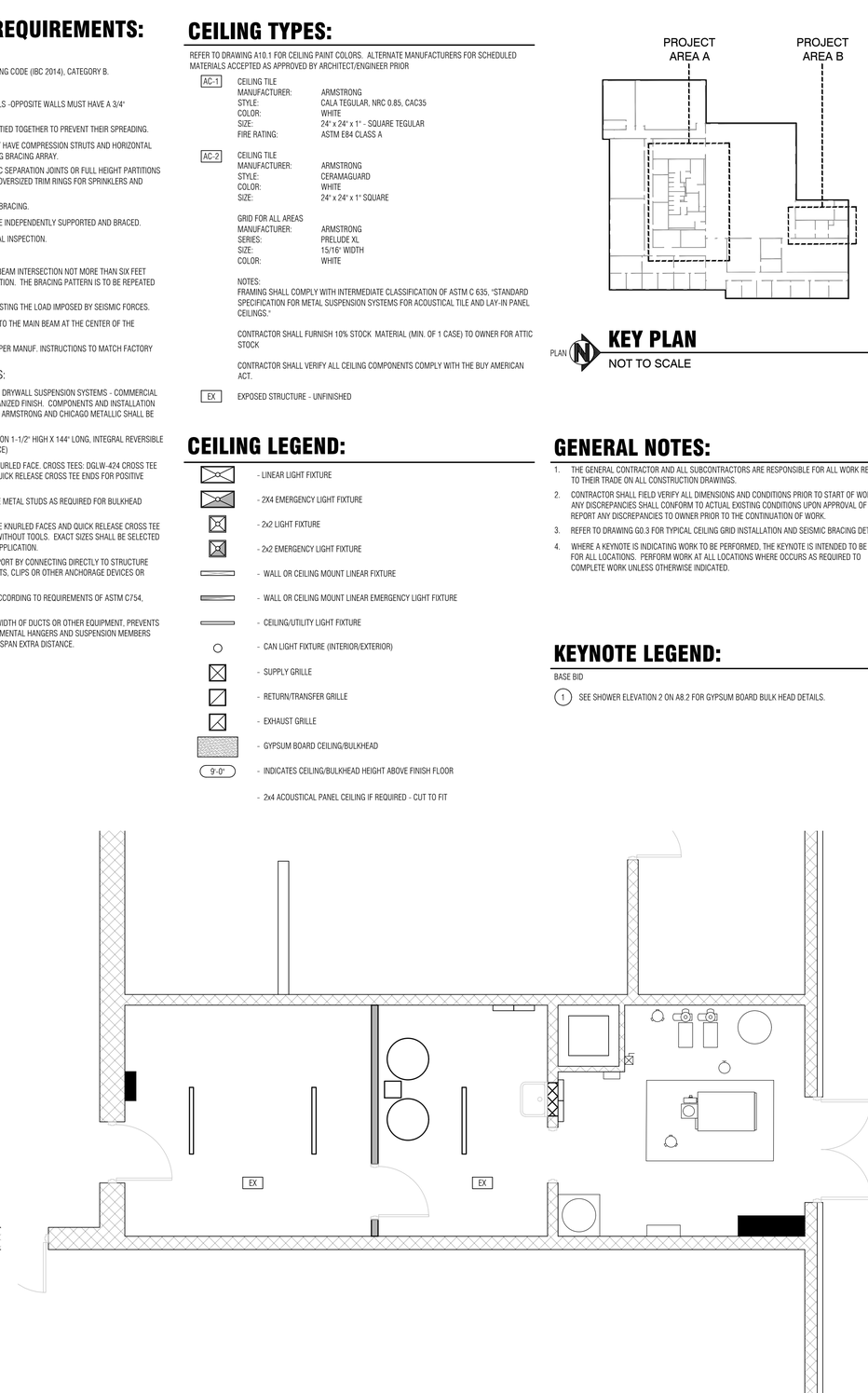
CONTRACTOR SHALL FURNISH 10% STOCK MATERIAL (MIN. OF 1 CASE) TO OWNER FOR ATTIC STOCK

CONTRACTOR SHALL VERIFY ALL CEILING COMPONENTS COMPLY WITH THE BUY AMERICAN ACT.

EX EXPOSED STRUCTURE - UNFINISHED

CEILING LEGEND:

- LINEAR LIGHT FIXTURE
- 2X4 EMERGENCY LIGHT FIXTURE
- 2x2 LIGHT FIXTURE
- 2x2 EMERGENCY LIGHT FIXTURE
- WALL OR CEILING MOUNT LINEAR FIXTURE
- WALL OR CEILING MOUNT LINEAR EMERGENCY LIGHT FIXTURE
- CEILING/UTILITY LIGHT FIXTURE
- CAN LIGHT FIXTURE (INTERIOR/EXTERIOR)
- SUPPLY GRILLE
- RETURN/TRANSFER GRILLE
- EXHAUST GRILLE
- GYPSUM BOARD CEILING/BULKHEAD
- 9'-0" - INDICATES CEILING/BULKHEAD HEIGHT ABOVE FINISH FLOOR
- 2x4 ACOUSTICAL PANEL CEILING IF REQUIRED - CUT TO FIT



PLAN N **REFLECTED CEILING PLAN - AREA B**

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

0 1 2 4 8

PLAN N **KEY PLAN**

NOT TO SCALE

GENERAL NOTES:

1. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR ALL WORK RELATED TO THEIR TRADE ON ALL CONSTRUCTION DRAWINGS.
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK - ANY DISCREPANCIES SHALL CONFORM TO ACTUAL EXISTING CONDITIONS UPON APPROVAL OF OWNER - REPORT ANY DISCREPANCIES TO OWNER PRIOR TO THE CONTINUATION OF WORK.
3. REFER TO DRAWING G0.3 FOR TYPICAL CEILING GRID INSTALLATION AND SEISMIC BRACING DETAILS.
4. WHERE A KEYNOTE IS INDICATING WORK TO BE PERFORMED, THE KEYNOTE IS INTENDED TO BE TYPICAL FOR ALL LOCATIONS. PERFORM WORK AT ALL LOCATIONS WHERE OCCURS AS REQUIRED TO COMPLETE WORK UNLESS OTHERWISE INDICATED.

KEYNOTE LEGEND:

BASE BID

(1) SEE SHOWER ELEVATION 2 ON A8.2 FOR GYPSUM BOARD BULK HEAD DETAILS.

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T. KINKEL NO. PE-00666 STATE OF INDIANA REGISTERED PROFESSIONAL ENGINEER 05/31/2024

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SHEET NO.

A4.1

REFLECTED CEILING PLAN

GENERAL NOTES:

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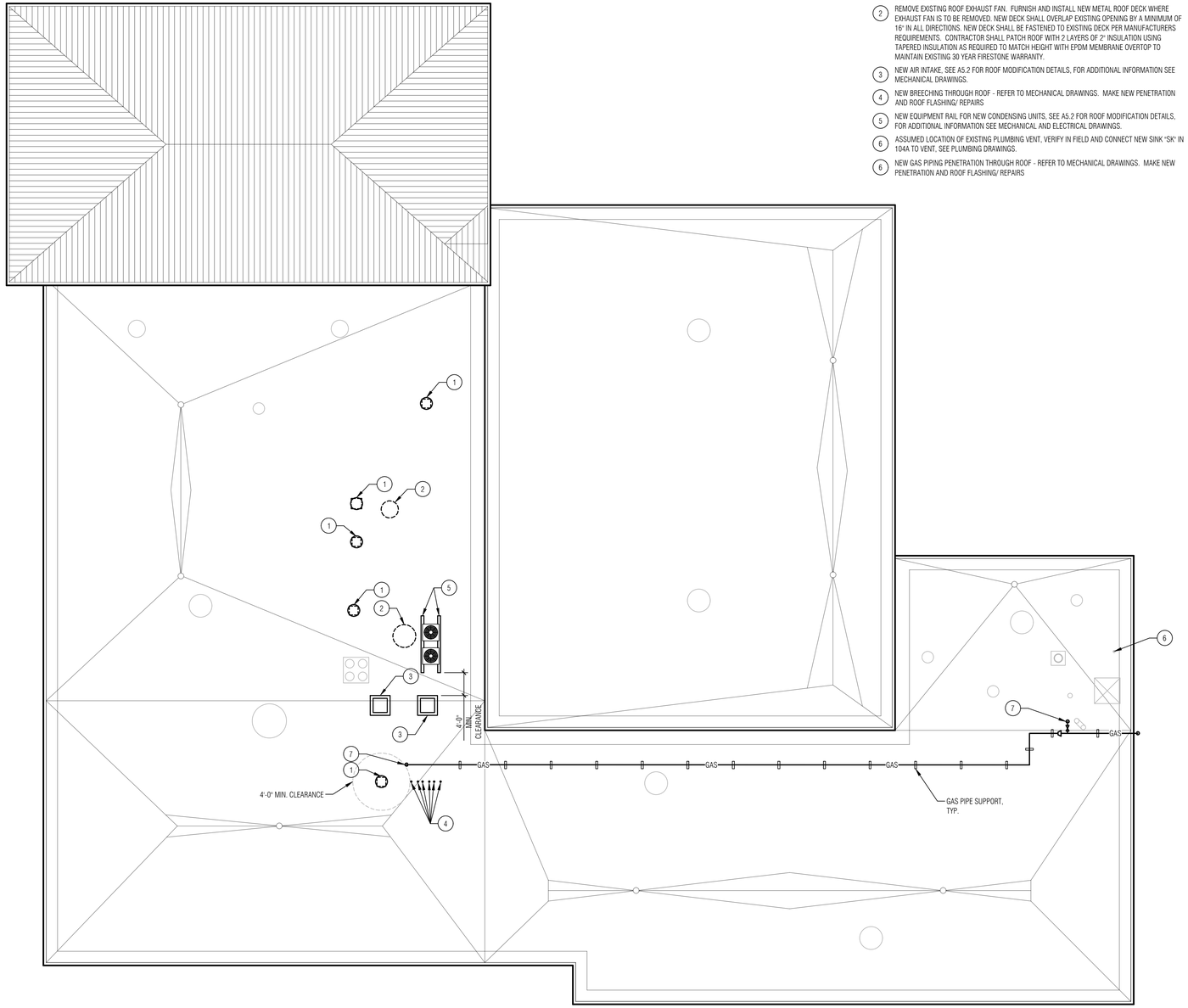
3. WHERE A KEYNOTE IS INDICATING WORK TO BE PERFORMED, THE KEYNOTE IS INTENDED TO BE TYPICAL FOR ALL LOCATIONS. PERFORM WORK AT ALL LOCATIONS WHERE OCCURS AS REQUIRED TO COMPLETE WORK UNLESS OTHERWISE INDICATED.
4. CONTRACTOR SHALL MAINTAIN EXISTING ROOF WARRANTY WITH REQUIRED CONSTRUCTION ON ROOF. EXISTING ROOF IS A FIRESTONE PLATINUM-P 90 MIL EPDM. ROOF WARRANTY NO PL003731 DATED 07/24/2014 (30 YEARS) SHALL BE MAINTAINED.

KEYNOTES:

BASE BID

1. NEW EXHAUST FAN, SEE A5.2 FOR ROOF MODIFICATION DETAILS, FOR ADDITIONAL INFORMATION SEE MECHANICAL AND ELECTRICAL DRAWINGS.
2. REMOVE EXISTING ROOF EXHAUST FAN. FURNISH AND INSTALL NEW METAL ROOF DECK WHERE EXHAUST FAN IS TO BE REMOVED. NEW DECK SHALL OVERLAP EXISTING OPENING BY A MINIMUM OF 16" IN ALL DIRECTIONS. NEW DECK SHALL BE FASTENED TO EXISTING DECK PER MANUFACTURERS REQUIREMENTS. CONTRACTOR SHALL PATCH ROOF WITH 2 LAYERS OF 2" INSULATION USING TAPERED INSULATION AS REQUIRED TO MATCH HEIGHT WITH EPDM MEMBRANE OVERTOP TO MAINTAIN EXISTING 30 YEAR FIRESTONE WARRANTY.
3. NEW AIR INTAKE, SEE A5.2 FOR ROOF MODIFICATION DETAILS, FOR ADDITIONAL INFORMATION SEE MECHANICAL DRAWINGS.
4. NEW BREECHING THROUGH ROOF - REFER TO MECHANICAL DRAWINGS. MAKE NEW PENETRATION AND ROOF FLASHING/ REPAIRS
5. NEW EQUIPMENT RAIL FOR NEW CONDENSING UNITS, SEE A5.2 FOR ROOF MODIFICATION DETAILS, FOR ADDITIONAL INFORMATION SEE MECHANICAL AND ELECTRICAL DRAWINGS.
6. ASSUMED LOCATION OF EXISTING PLUMBING VENT, VERIFY IN FIELD AND CONNECT NEW SINK "SK" IN 104A TO VENT, SEE PLUMBING DRAWINGS.
6. NEW GAS PIPING PENETRATION THROUGH ROOF - REFER TO MECHANICAL DRAWINGS. MAKE NEW PENETRATION AND ROOF FLASHING/ REPAIRS



PLAN N

ROOF PLAN

SCALE: 3/32"=1'-0"

0 2' 5' 10' 20'

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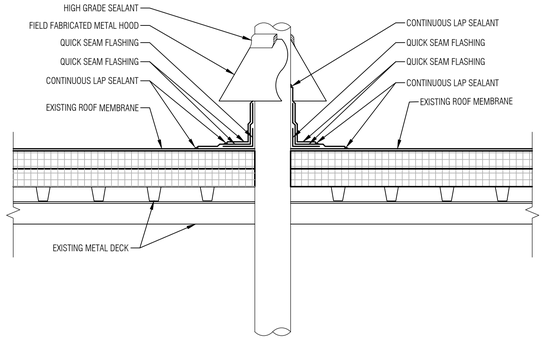
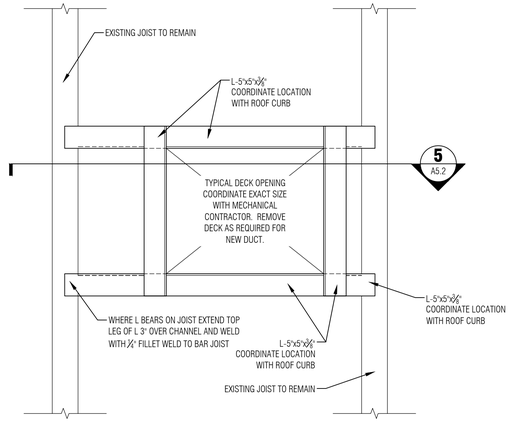
A5.1

ROOF PLAN/DETAILS



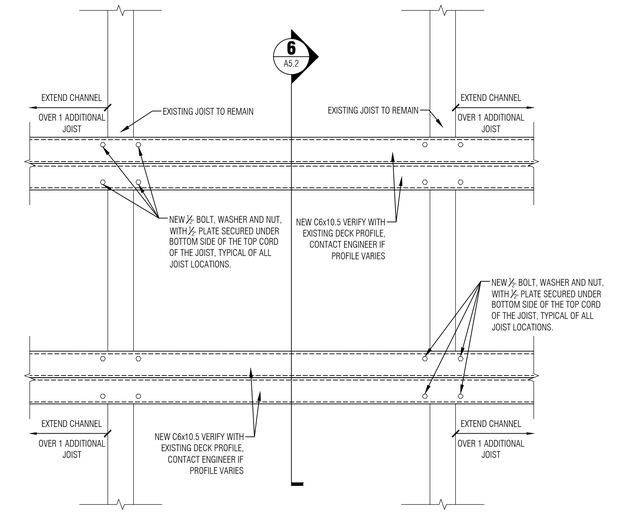
1 VENT STACK DETAIL AT EXISTING METAL DECK

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



2 AIR INTAKE/EXHAUST FAN SUPPORT FRAMING DETAIL

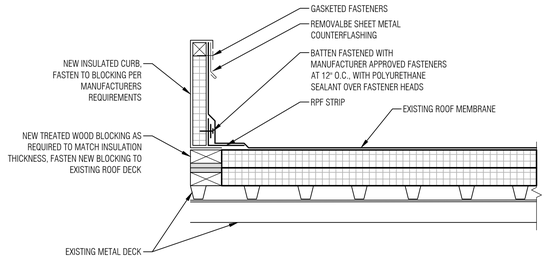
SCALE: 3/4"=1'-0"



3 EQUIPMENT RAIL MOUNTING SUPPORT DETAIL

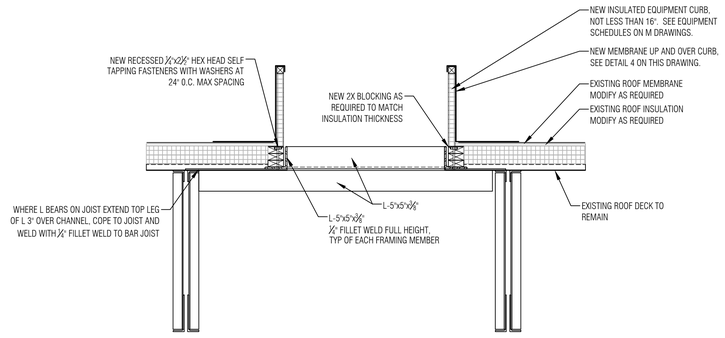
SCALE: 3/4"=1'-0"

SEE ROOF MEMBRANE MANUFACTURE
DETAILS FOR ADDITIONAL REQUIREMENTS



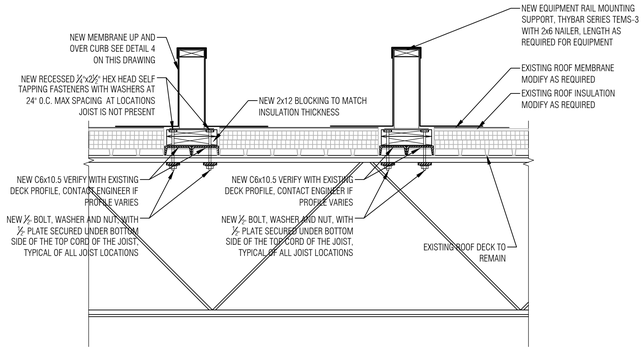
4 ROOF CURB DETAIL AT EXISTING METAL DECK

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



5 AIR INTAKE/EXHAUST FAN SUPPORT FRAMING SECTION

SCALE: 3/4"=1'-0"



6 EQUIPMENT RAIL MOUNTING SUPPORT SECTION

SCALE: 3/4"=1'-0"

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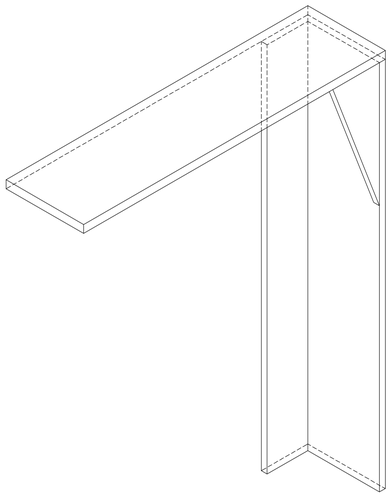
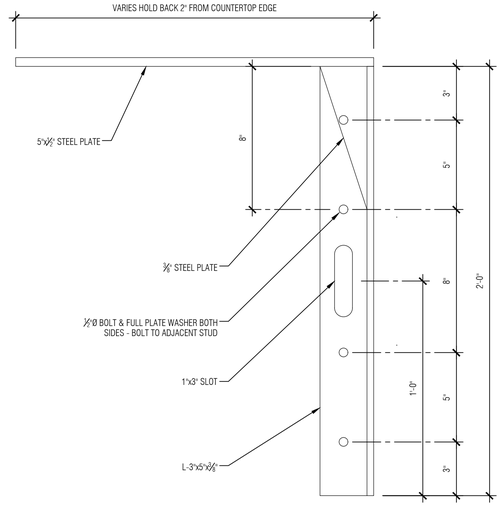
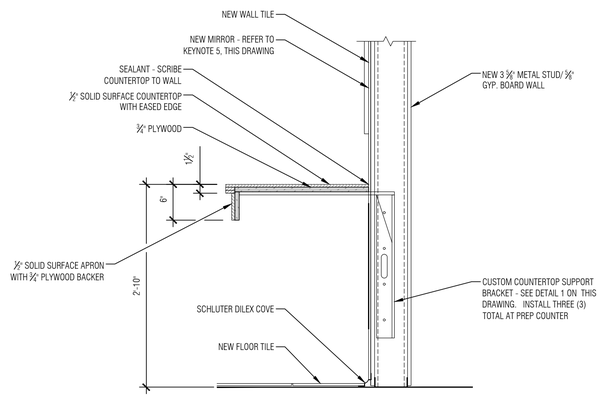
A5.2
ROOF DETAILS





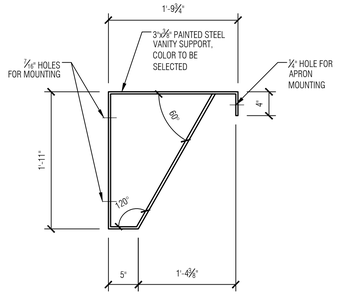
1 CUSTOM COUNTERTOP SUPPORT BRACKET

NOT TO SCALE



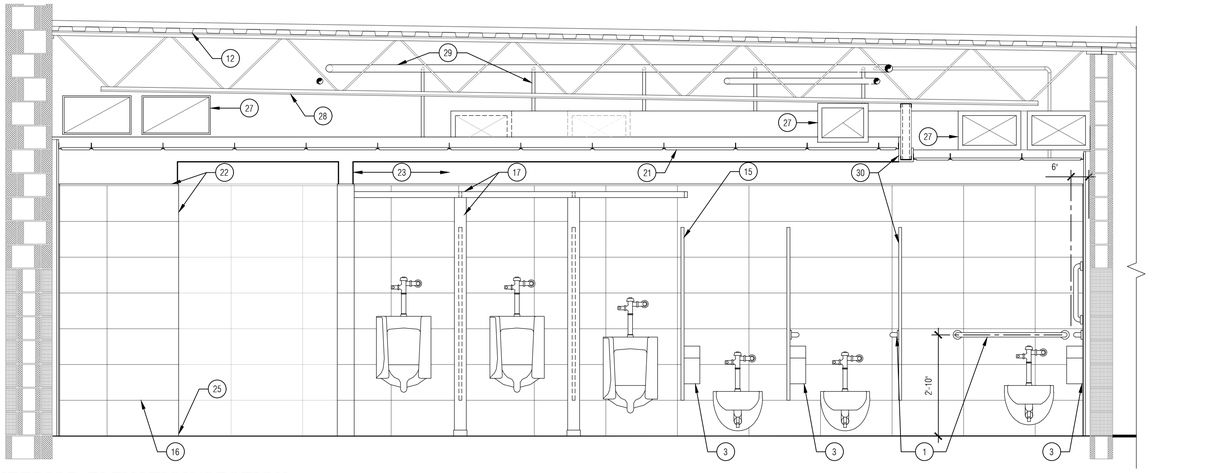
2 SECTION AT PREP COUNTER

SCALE: 1"=1'-0"



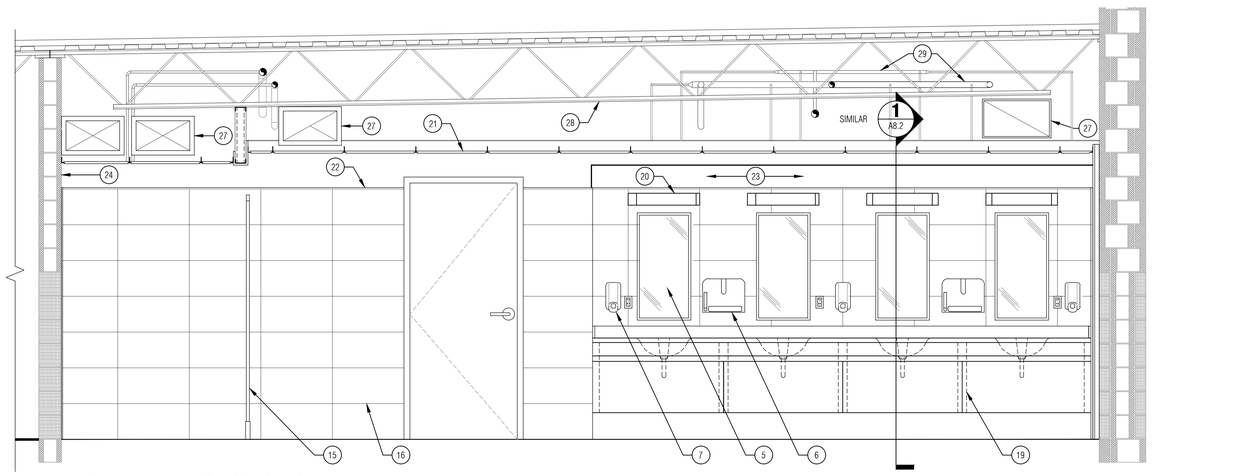
5 LAVATORY BRACKET DETAIL

SCALE: 1"=1'-0"



3 INTERIOR ELEVATION/SECTION

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



4 INTERIOR ELEVATION/SECTION

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

GENERAL NOTES:

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3. WHERE A KEYNOTE IS INDICATING WORK TO BE PERFORMED, THE KEYNOTE IS INTENDED TO BE TYPICAL FOR ALL LOCATIONS. PERFORM WORK AT ALL LOCATIONS WHERE OCCURS AS REQUIRED TO COMPLETE WORK UNLESS OTHERWISE INDICATED.
4. WHERE COUNTERTOP MEETS WALL FURNISH & INSTALL 1x2 CLEAT PLASTIC LAMINATE COVERED CLEAT. PLASTIC LAMINATE SHALL MATCH COUNTERTOPS AS APPROVED BY ARCHITECT/ENGINEER. SECURE TO WALL WITH STAINLESS STEEL SCREWS AND FINISH WASHERS AS APPROVED BY THE ARCHITECT/ENGINEER.
5. ALL WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED.

KEYNOTES:

BASE BID

1. GRAB BAR:
   BOBRICK, STAINLESS STEEL 1¼"Ø w/CONCEALED MOUNTING FLANGE & SNAP FLANGE COVERS, SATIN FINISH w/PEENED GRIPPING MODEL #B-5806.99 (36" ON BACK WALL, 42" ON SIDE WALL). - C.F.C.I.
2. GRAB BAR:
   BOBRICK, STAINLESS STEEL 1¼"Ø w/CONCEALED MOUNTING FLANGE & SNAP FLANGE COVERS, SATIN FINISH w/PEENED GRIPPING MODEL #B-5806.99 (18" VERTICAL MOUNT ON SIDE WALL). - C.F.C.I.
3. TOILET TISSUE DISPENSER - O.F.C.I.
4. SANITARY NAPKIN DISPOSAL, BOBRICK MODEL #B254 - C.F.C.I., SURFACE MOUNT - WOMEN'S RESTROOM ONLY. VERIFY LOCATION AT TIME OF CONSTRUCTION TO ACCOMMODATE OWNER FURNISHED TOILET TISSUE DISPENSER
5. MIRROR:
   BOBRICK, GLASS MIRROR WITH STAINLESS STEEL FRAME, 18"x36", MODEL #B-165 1836 - C.F.C.I.
6. PAPER TOWEL DISPENSER - O.F.C.I.
7. SOAP DISPENSER - O.F.C.I.
10. SHOWER CURTAIN ROD, SHOWER CURTAIN, & CURTAIN HOOKS;
    BOBRICK, B-1607 HEAVY DUTY SHOWER CURTAIN ROD - CONTRACTOR SHALL FIELD CUT TO REQUIRED LENGTH. FASTEN TO WALLS AND SHOWER PARTITIONS PER MANUFACTURERS INSTRUCTIONS. - C.F.C.I.
    BOBRICK, 204-1 STAINLESS STEEL SHOWER CURTAIN HOOK - C.F.C.I.
    BOBRICK, 204-2 42"x72" VINYL SHOWER CURTAIN FOR STANDARD SHOWER - C.F.C.I
    BOBRICK, 204-3 70"x72" VINYL SHOWER CURTAIN FOR ADA SHOWER - C.F.C.I
11. SHOWER SEAT:
    BOBRICK, B-5181 REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT - C.F.C.I.
12. EXISTING METAL DECK.
13. SURFACE MOUNT SINGLE HOOK:
    BOBRICK, B-6717 SATIN STAINLESS STEEL HOOK - C.F.C.I.
14. GRAB BAR:
    BOBRICK, STAINLESS STEEL 1¼"Ø W/CONCEALED MOUNTING FLANGE & SNAP FLANGE COVERS, SATIN FINISH W/PEENED GRIPPING MODEL #B-6861.99 (15-7/8" W X 30-7/8" D, MOUNT ON ADJACENT WALLS). - C.F.C.I.
15. NEW FLOOR MOUNTED OVERHEAD BRACED TOILET PARTITIONS AS SPECIFIED IN SECTION 10 21 13.
16. TYPICAL WALL TILE PATTERN.
17. 4' PILASTERS TO OVERHEAD BRACE ABOVE.
18. SHOWER SHELF:
    SCHULTER SHELF-W-SQUARE, ITEM NO. SWSI D3 EB, BRUSHED STAINLESS STEEL. VERIFY LOCATION AT TIME OF CONSTRUCTION.
19. CUSTOM LAVATORY BRACKET - REFER TO DETAIL 5 ON THIS DRAWING.
20. WALL MOUNTED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS.
21. NEW ACOUSTICAL PANEL CEILING AND GRID AS SPECIFIED.
22. SCHLUTER QUADEC EDGE.
23. GYPSUM BOARD WALL/BULKHEAD - PAINTED.
24. CMU WALL - PAINTED.
25. SCHLUTER DILEX COVE - TYPICAL AT ALL WALL/FLOOR TRANSITIONS.
26. BOTTOM ELEVATION OF EXISTING JOIST VARIES FOR SLOPE.
27. NEW SUPPLY/RETURN/EXHAUST AIR DUCTWORK - REFER TO MECHANICAL DRAWINGS. VERIFY PLACEMENT TO ACCOMMODATE EXISTING STRUCTURE, NEW WALL/CEILING CONSTRUCTION, AND NEW PLUMBING CONSTRUCTION.
28. EXISTING BAR JOIST TO REMAIN.
29. NEW HOT/COLD WATER SUPPLY PIPING - VERIFY PLACEMENT TO ACCOMMODATE EXISTING STRUCTURE, NEW WALL/CEILING CONSTRUCTION, AND NEW DUCTWORK. REFER TO PLUMBING DRAWINGS.
30. ALIGN BULKHEAD WITH FACE OF PARTITION BELOW.

ABREVIATIONS:
O.F.O.I - OWNER FURNISHED OWNER INSTALLED
O.F.C.I. - OWNER FURNISHED CONTRACTOR INSTALLED
C.F.C.I. - CONTRACTOR FURNISHED CONTRACTOR INSTALLED

ISSUE	DESCRIPTION	DATE
0	ISSUED FOR BIDDING AND CONSTRUCTION	05/31/2024

JACK R. KINKEL AND SON ARCHITECTS, PC
312 N.W. King Boulevard
Evansville, Indiana 47708
www.kinkel-ae.com
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MICHAEL ANTHONY MOHR REGISTERED 10300009 STATE OF INDIANA ARCHITECT 05-31-2024

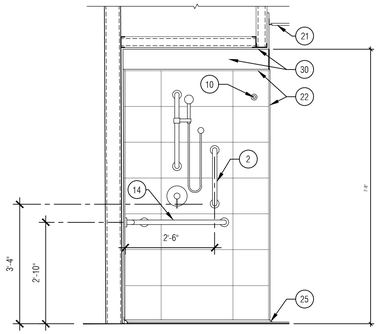
T. KINKEL REGISTERED NO PE-00666 STATE OF INDIANA PROFESSIONAL ENGINEER 05/31/2024

TERRE HAUTE RC FEMALE LATRINE EXPANSION
INDIANA NATIONAL GUARD
IFB NO: MDI-SAB-24-B-002
3614 MAPLE AVENUE
TERRE HAUTE, INDIANA 47804

SHEET NO.

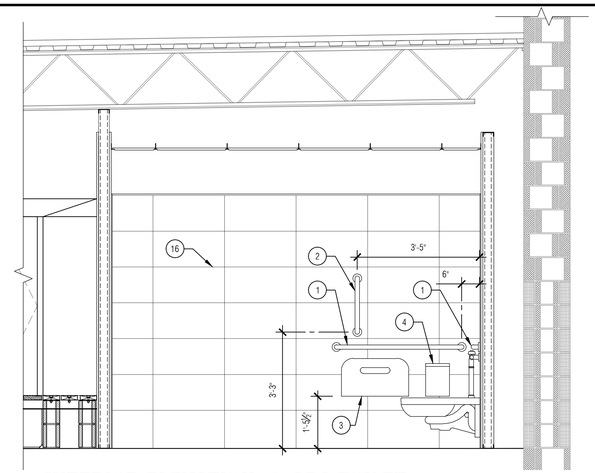
A8.1

INTERIOR ELEVATIONS/ SECTIONS



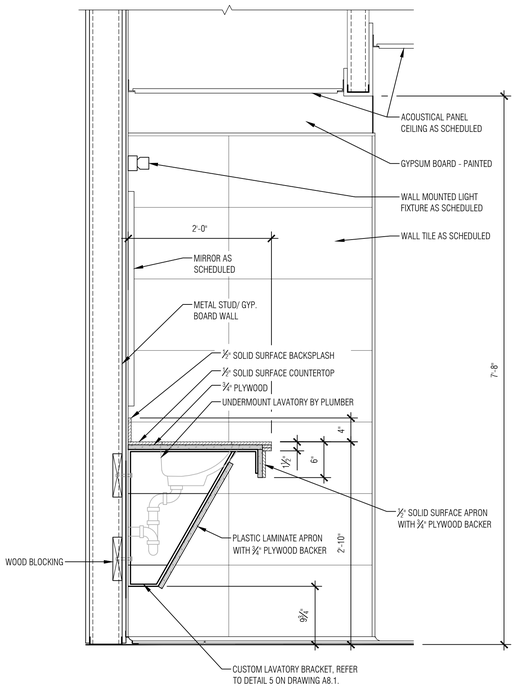
2 INTERIOR ELEVATION @ ADA SHOWER

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



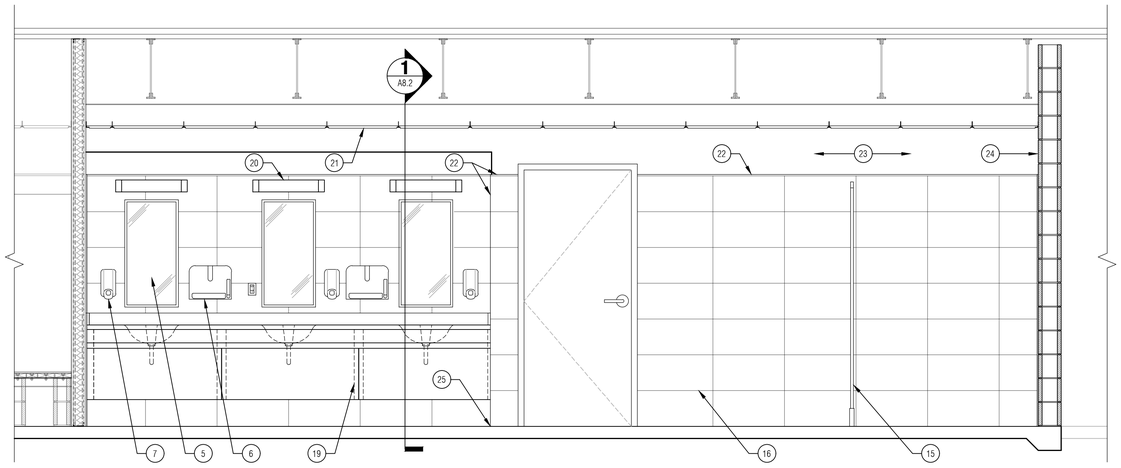
5 INTERIOR ELEVATION @ ADA TOILET

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



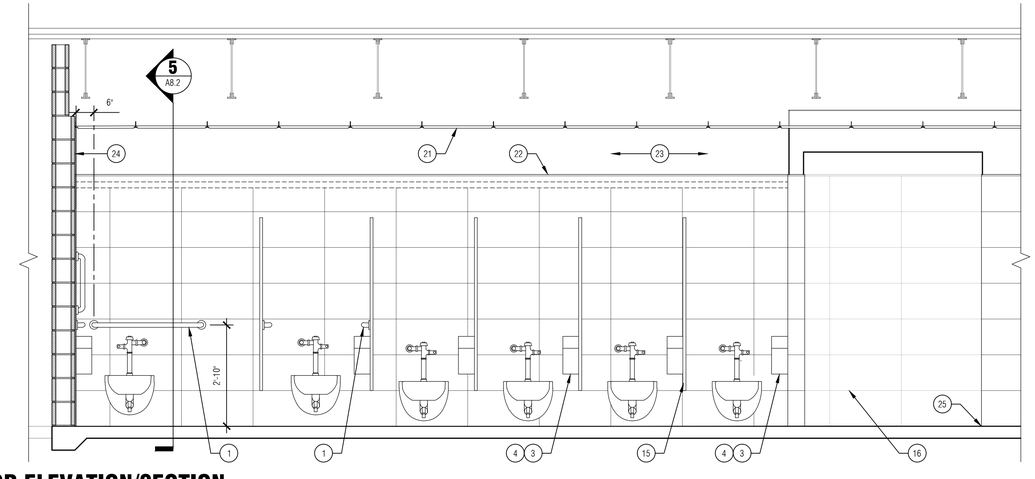
1 SECTION AT LAVATORY

SCALE: 1"=1'-0"



3 INTERIOR ELEVATION/SECTION

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



4 INTERIOR ELEVATION/SECTION

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

GENERAL NOTES:

1. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR ALL WORK RELATED TO THEIR TRADE ON ALL CONSTRUCTION DRAWINGS.
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3. WHERE A KEYNOTE IS INDICATING WORK TO BE PERFORMED, THE KEYNOTE IS INTENDED TO BE TYPICAL FOR ALL LOCATIONS. PERFORM WORK AT ALL LOCATIONS WHERE OCCURS AS REQUIRED TO COMPLETE WORK UNLESS OTHERWISE INDICATED.
4. WHERE COUNTERTOP MEETS WALL FURNISH & INSTALL 1x2 CLEAT PLASTIC LAMINATE COVERED CLEAT. PLASTIC LAMINATE SHALL MATCH COUNTERTOPS AS APPROVED BY ARCHITECT/ENGINEER. SECURE TO WALL WITH STAINLESS STEEL SCREWS AND FINISH WASHERS AS APPROVED BY THE ARCHITECT/ENGINEER.

KEYNOTES:

BASE BID

1. GRAB BAR:
BOBRICK, STAINLESS STEEL 1¼"Ø w/CONCEALED MOUNTING FLANGE & SNAP FLANGE COVERS, SATIN FINISH w/PEENED GRIPPING MODEL #B-5806.99 (36" ON BACK WALL, 42" ON SIDE WALL). - C.F.C.I.
2. GRAB BAR:
BOBRICK, STAINLESS STEEL 1¼"Ø w/CONCEALED MOUNTING FLANGE & SNAP FLANGE COVERS, SATIN FINISH w/PEENED GRIPPING MODEL #B-5806.99 (18" VERTICAL MOUNT ON SIDE WALL). - C.F.C.I.
3. TOILET TISSUE DISPENSER - O.F.C.I.
4. SANITARY NAPKIN DISPOSAL, BOBRICK MODEL #B254 - C.F.C.I., SURFACE MOUNT - WOMEN'S RESTROOM ONLY. VERIFY LOCATION AT TIME OF CONSTRUCTION TO ACCOMMODATE OWNER FURNISHED TOILET TISSUE DISPENSER
5. MIRROR:
BOBRICK, GLASS MIRROR WITH STAINLESS STEEL FRAME, 18"X36", MODEL #B-165 1836 - C.F.C.I.
6. PAPER TOWEL DISPENSER - O.F.C.I.
7. SOAP DISPENSER - O.F.C.I.
10. SHOWER CURTAIN ROD, SHOWER CURTAIN, & CURTAIN HOOKS:
BOBRICK, B-1607 HEAVY DUTY SHOWER CURTAIN ROD - CONTRACTOR SHALL FIELD CUT TO REQUIRED LENGTH. FASTEN TO WALLS AND SHOWER PARTITIONS PER MANUFACTURERS INSTRUCTIONS. - C.F.C.I.
BOBRICK, 204-1 STAINLESS STEEL SHOWER CURTAIN HOOK - C.F.C.I.
BOBRICK, 204-2 42"x72" VINYL SHOWER CURTAIN FOR STANDARD SHOWER - C.F.C.I
BOBRICK, 204-3 70"x72" VINYL SHOWER CURTAIN FOR ADA SHOWER - C.F.C.I
11. SHOWER SEAT:
BOBRICK, B-5181 REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT - C.F.C.I.
12. LOCKERS: NOT IN CONTRACT
13. SURFACE MOUNT SINGLE HOOK:
BOBRICK, B-6717 SATIN STAINLESS STEEL HOOK - C.F.C.I.
14. GRAB BAR:
BOBRICK, STAINLESS STEEL 1¼"Ø W/CONCEALED MOUNTING FLANGE & SNAP FLANGE COVERS, SATIN FINISH W/PEENED GRIPPING MODEL #B-6861.99 (15-7/8" W X 30-7/8" D, MOUNT ON ADJACENT WALLS). - C.F.C.I.
15. TOILET PARTITIONS AS SPECIFIED.
16. TYPICAL WALL TILE PATTERN.
17. 4' PILASTERS TO OVERHEAD BRACE ABOVE.
18. SHOWER SHELF:
SCHULTER SHELF-W-SQUARE, ITEM NO. SWSI D3 EB, BRUSHED STAINLESS STEEL. VERIFY LOCATION AT TIME OF CONSTRUCTION.
19. CUSTOM LAVATORY BRACKET - REFER TO DETAIL 5 ON DRAWING A8.1.
20. WALL MOUNTED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS.
21. NEW ACOUSTICAL PANEL CEILING AND GRID AS SPECIFIED.
22. SCHLUTER QUADEC EDGE.
23. GYPSUM BOARD WALL/BULKHEAD - PAINTED.
24. CMU WALL - PAINTED.
25. SCHLUTER DILEX COVE - TYPICAL AT ALL WALL/FLOOR TRANSITIONS.
26. BOTTOM ELEVATION OF EXISTING JOIST VARIES FOR SLOPE.
27. NEW SUPPLY/RETURN AIR DUCTWORK - REFER TO MECHANICAL DRAWINGS.
28. EXISTING BAR JOIST TO REMAIN.
29. INFILL OPENING WHERE TRANSFER GRILL IS REMOVED WITH NEW CMU - REMOVE PARTIAL CMU AND REPLACE WITH FULL CMU WHERE REQUIRED.
30. GYPSUM BOARD WALL/BULKHEAD - EPOXY PAINTED FINISH.

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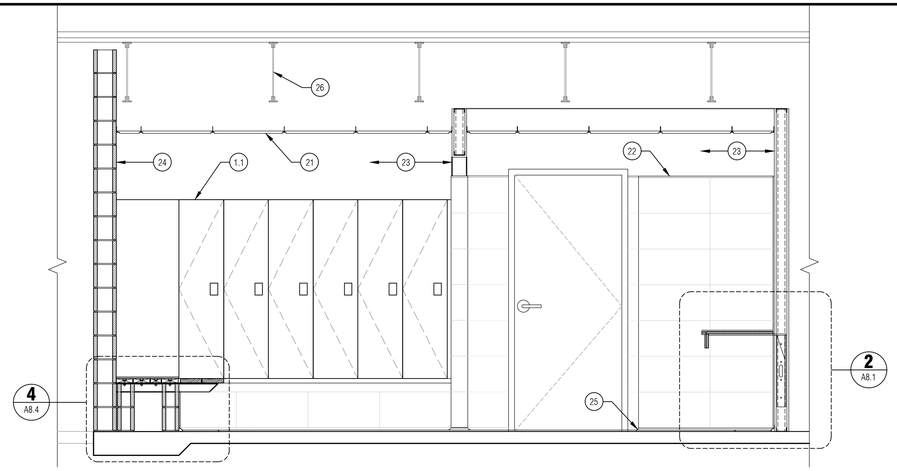
SHEET NO.

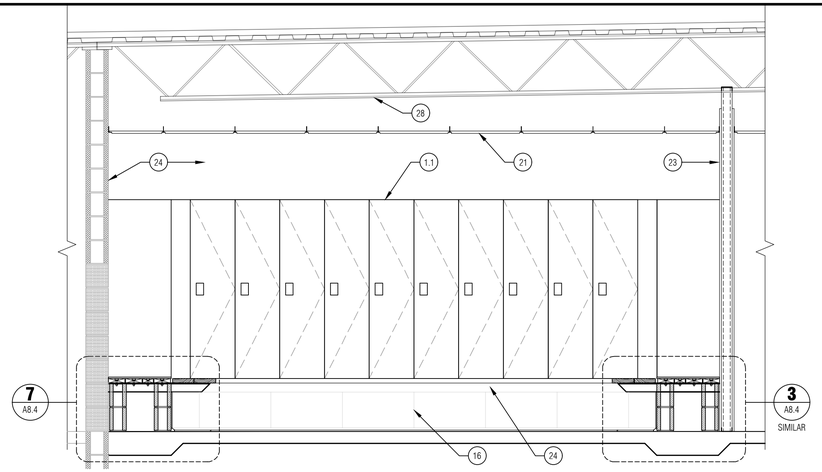
A8.2

INTERIOR ELEVATIONS/ SECTIONS



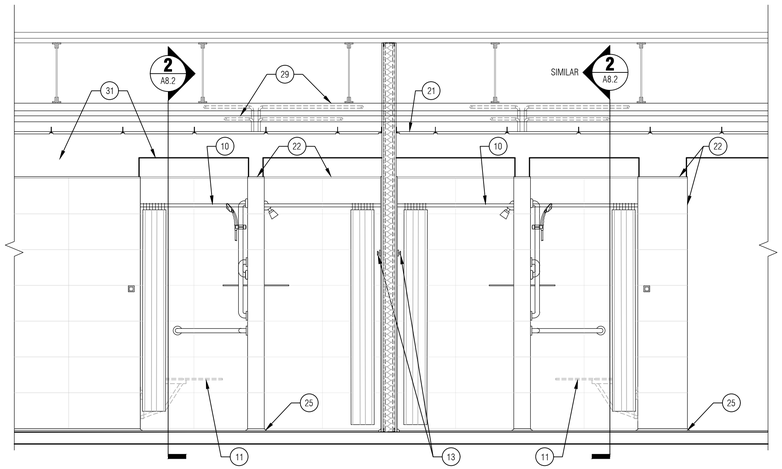
1 INTERIOR ELEVATION/SECTION

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



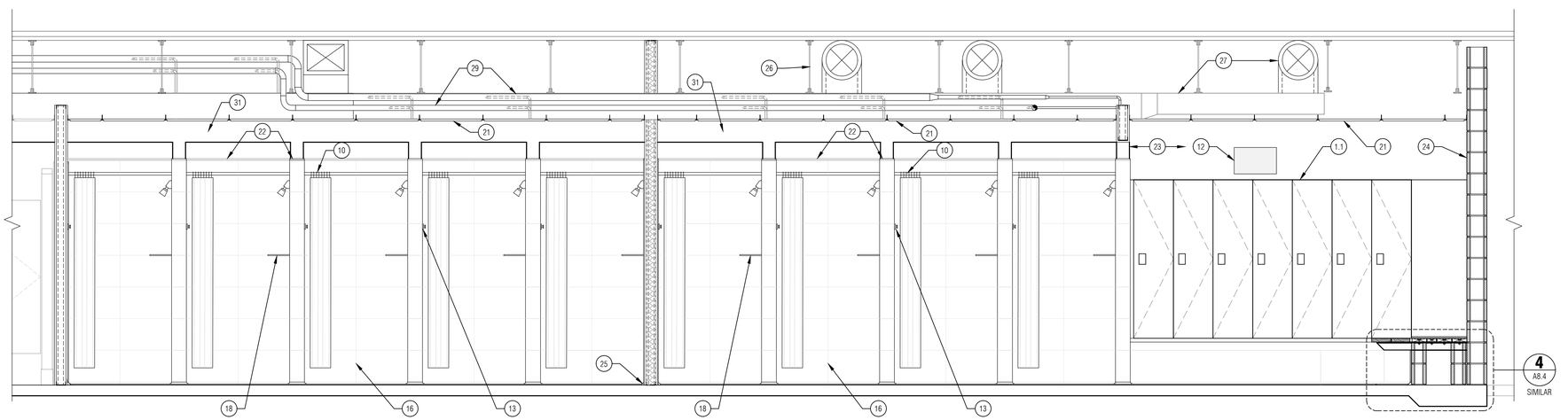
3 INTERIOR ELEVATION/SECTION

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



4 INTERIOR ELEVATION/SECTION

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



2 INTERIOR ELEVATION/SECTION

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5. ALL WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED.

KEYNOTES:

BASE BID

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2. GRAB BAR:
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3. TOILET TISSUE DISPENSER - O.F.C.I.
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5. MIRROR:
   BOBRICK, GLASS MIRROR WITH STAINLESS STEEL FRAME, 18"x36", MODEL #B-165 1836 - C.F.C.I.
6. PAPER TOWEL DISPENSER - O.F.C.I.
7. SOAP DISPENSER - O.F.C.I.
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    BOBRICK, 204-3 70"x72" VINYL SHOWER CURTAIN FOR ADA SHOWER - C.F.C.I
11. SHOWER SEAT:
    BOBRICK, B-5181 REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT - C.F.C.I.
12. INFILL OPENING WHERE TRANSFER GRILL IS REMOVED WITH NEW CMU - REMOVE PARTIAL CMU AND REPLACE WITH FULL CMU WHERE REQUIRED.
13. SURFACE MOUNT SINGLE HOOK:
    BOBRICK, B-6717 SATIN STAINLESS STEEL HOOK - C.F.C.I. MOUNT AT 5'-0" A.F.F. UNLESS OTHERWISE NOTED.
14. GRAB BAR:
    BOBRICK, STAINLESS STEEL 1¼"Ø W/CONCEALED MOUNTING FLANGE & SNAP FLANGE COVERS, SATIN FINISH W/PEENED GRIPPING MODEL #B-6861.99 (15-7/8" W X 30-7/8" D, MOUNT ON ADJACENT WALLS). - C.F.C.I.
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17. 4' PILASTERS TO OVERHEAD BRACE ABOVE.
18. SHOWER SHELF:
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19. CUSTOM LAVATORY BRACKET - REFER TO DETAIL 5 ON DRAWING A8.1.
20. WALL MOUNTED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS.
21. NEW ACOUSTICAL PANEL CEILING AND GRID AS SPECIFIED.
22. SCHLUTER QUADEC EDGE.
23. GYPSUM BOARD WALL/BULKHEAD - PAINTED.
24. CMU WALL - PAINTED.
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28. EXISTING BAR JOIST TO REMAIN.
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30. SURFACE MOUNT SINGLE HOOK:
    BOBRICK, B-6717 SATIN STAINLESS STEEL HOOK - C.F.C.I. MOUNT AT 4'-0" A.F.F. AT ADA SHOWER STALLS.
31. GYPSUM BOARD WALL/BULKHEAD - EPOXY PAINTED FINISH.

ALTERNATE BID ITEM #1

1.1 NEW LOCKERS SEE SPECIFICATION SECTION 10 51 13 FOR ADDITIONAL DETAILS.

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A8.3

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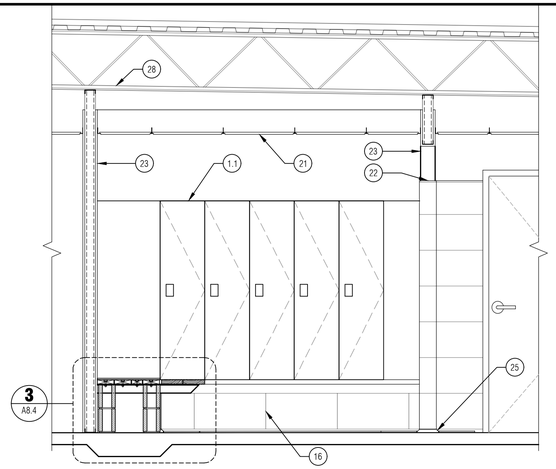
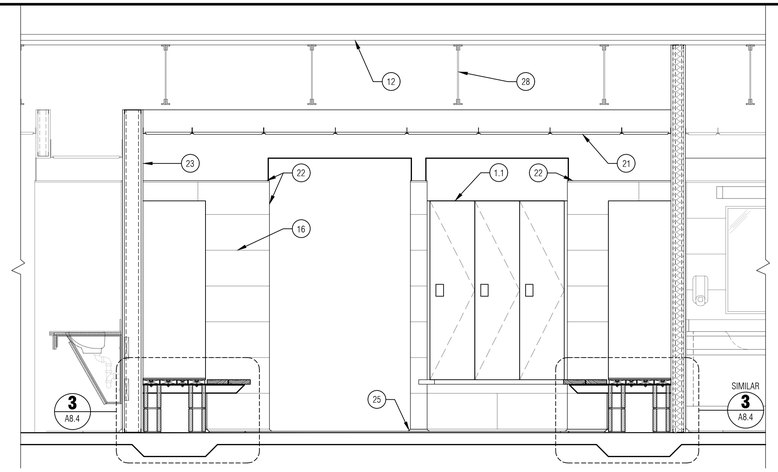


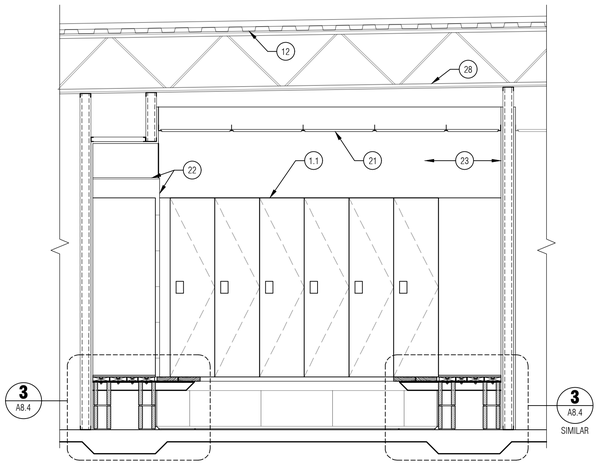
1 INTERIOR ELEVATION/SECTION

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



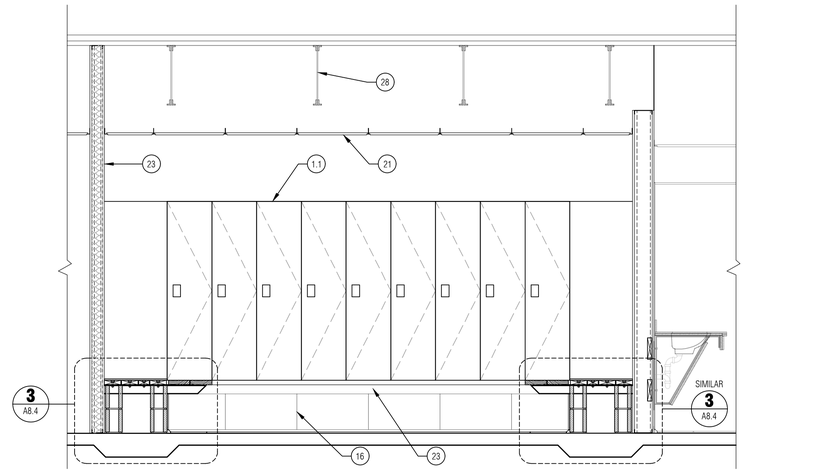
5 INTERIOR ELEVATION/SECTION

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



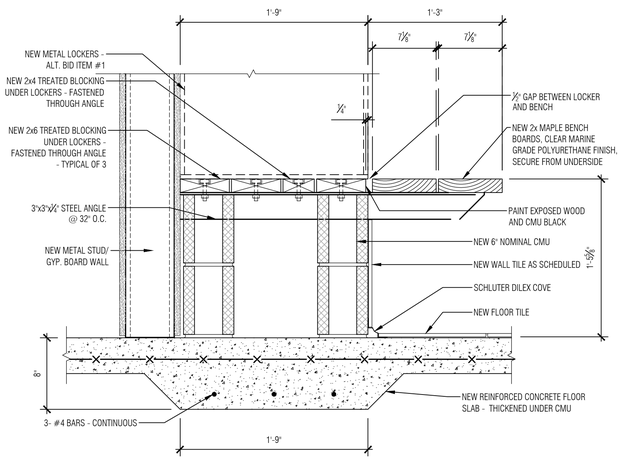
2 INTERIOR ELEVATION/SECTION

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



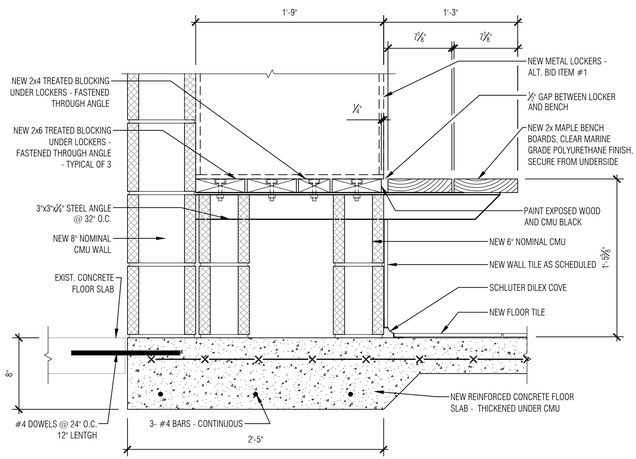
6 INTERIOR ELEVATION/SECTION

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



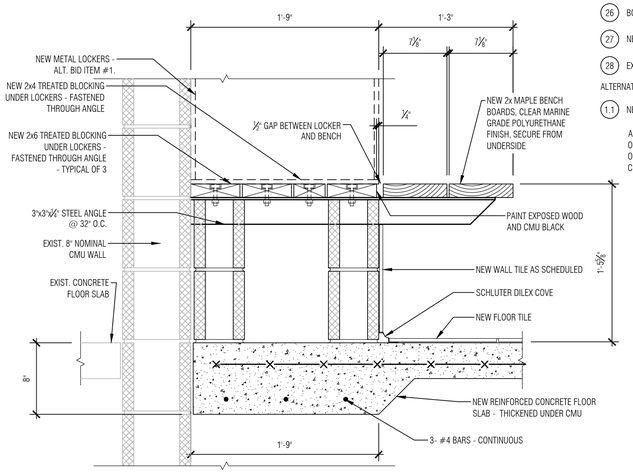
3 SECTION AT LOCKER BENCH

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



4 SECTION AT LOCKER BENCH

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



7 SECTION AT LOCKER BENCH

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KEYNOTES:

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1. GRAB BAR:
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    BOBRICK, 204-3 70"x72" VINYL SHOWER CURTAIN FOR ADA SHOWER - C.F.C.I
11. SHOWER SEAT:
    BOBRICK, B-5181 REVERSIBLE SOLID PHENOLIC FOLDING SHOWER SEAT - C.F.C.I.
12. EXISTING METAL DECK.
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26. BOTTOM ELEVATION OF EXISTING JOIST VARIES FOR SLOPE.
27. NEW SUPPLY/RETURN AIR DUCTWORK - REFER TO MECHANICAL DRAWINGS.
28. EXISTING BAR JOIST TO REMAIN.

ALTERNATE BID ITEM #1

1.1 NEW LOCKERS SEE SPECIFICATION SECTION 10 51 13 FOR ADDITIONAL DETAILS.

ABREVIATIONS:
O.F.O.I - OWNER FURNISHED OWNER INSTALLED
O.F.C.I. - OWNER FURNISHED CONTRACTOR INSTALLED
C.F.C.I. - CONTRACTOR FURNISHED CONTRACTOR INSTALLED

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A8.4

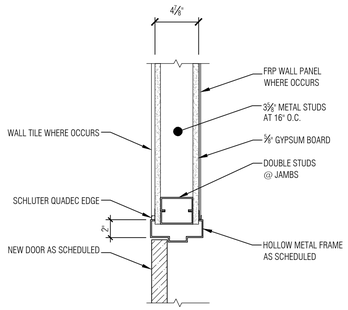
INTERIOR ELEVATIONS/ SECTIONS

DOOR SCHEDULE

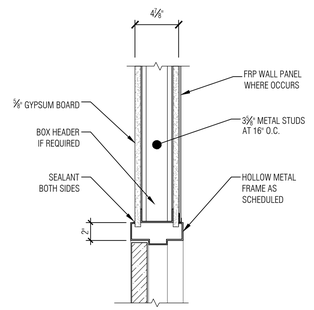
DOOR NUMBER	DOOR SIZE	UNDERWRITERS LABEL	HARDWARE FUNCTION	DOOR				FRAME				DETAILS			FRAME DEPTH	HARDWARE SET NUMBER	REMARKS
				DOOR ELEVATION	SOLID CORE WOOD	HOLLOW METAL	PAINTED FINISH	DOOR FRAME ELEVATION	ALUMINUM	HOLLOW METAL	PAINTED FINISH	HEAD	JAMB	SILL			
104A	3'-0" x 7'-2"		CLASSROOM	A		●	●	F1		●	●	2/A9.1	1/A9.1	-	5 ½"	5	
105	-		-	-		-		-		●	●	-	-	-	-	2	1
137	3'-0" x 7'-2" (FIELD VERIFY)	90 MIN.	-	A		●	●			●	●	-	-	-	-	6	2
137A	3'-0" x 7'-2"		CLASSROOM	A		●	●	F1		●	●	2/A9.1	1/A9.1	-	5 ½"	1	
137B	3'-0" x 7'-2"		STOREROOM	A		●	●	F1		●	●	2/A9.1	1/A9.1	-	5 ½"	3	
139	3'-0" x 7'-2" (FIELD VERIFY)	90 MIN.	-	A		●	●	-		●	●	-	-	-	-	6	2
139A	3'-0" x 7'-2"		CLASSROOM	A		●	●	F1		●	●	2/A9.1	1/A9.1	-	5 ½"	1	
141	3'-0" x 7'-2" (FIELD VERIFY)	90 MIN.	STOREROOM	A		●	●	-		●	●	-	-	-	-	4	3

DOOR SCHEDULE REMARKS:

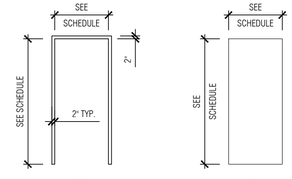
1. REMOVE EXISTING DOOR AND HARDWARE, EXISTING FRAME TO REMAIN. INSTALL HINGE COVER PLATES ON EXISTING HOLLOW METAL FRAME. PREPARE AND PAINT FRAME.
2. NEW DOOR AND HARDWARE, EXISTING FRAME TO REMAIN. VERIFY DOOR SIZE AND HINGE PLACEMENT, PROVIDE COVER PLATE AT EXISTING STRIKE PLATE LOCATION(S). MAINTAIN/RE-CERTIFY 90 MINUTE RATING ON EXISTING FRAME. PREPARE AND PAINT DOOR AND FRAME. SPLIT DOOR/FRAME PAINT AS INDICATED ON DRAWING A10.1.
3. NEW DOOR AND HARDWARE, EXISTING FRAME TO REMAIN. VERIFY DOOR SIZE AND HINGE PLACEMENT, MODIFY FRAME FOR STRIKE PLACEMENT AS REQUIRED. MAINTAIN/RE-CERTIFY 90 MINUTE RATING ON EXISTING FRAME. PREPARE AND PAINT DOOR AND FRAME. PAINT DOOR AND FRAME TO MATCH EXISTING COLOR, BOTH SIDES.



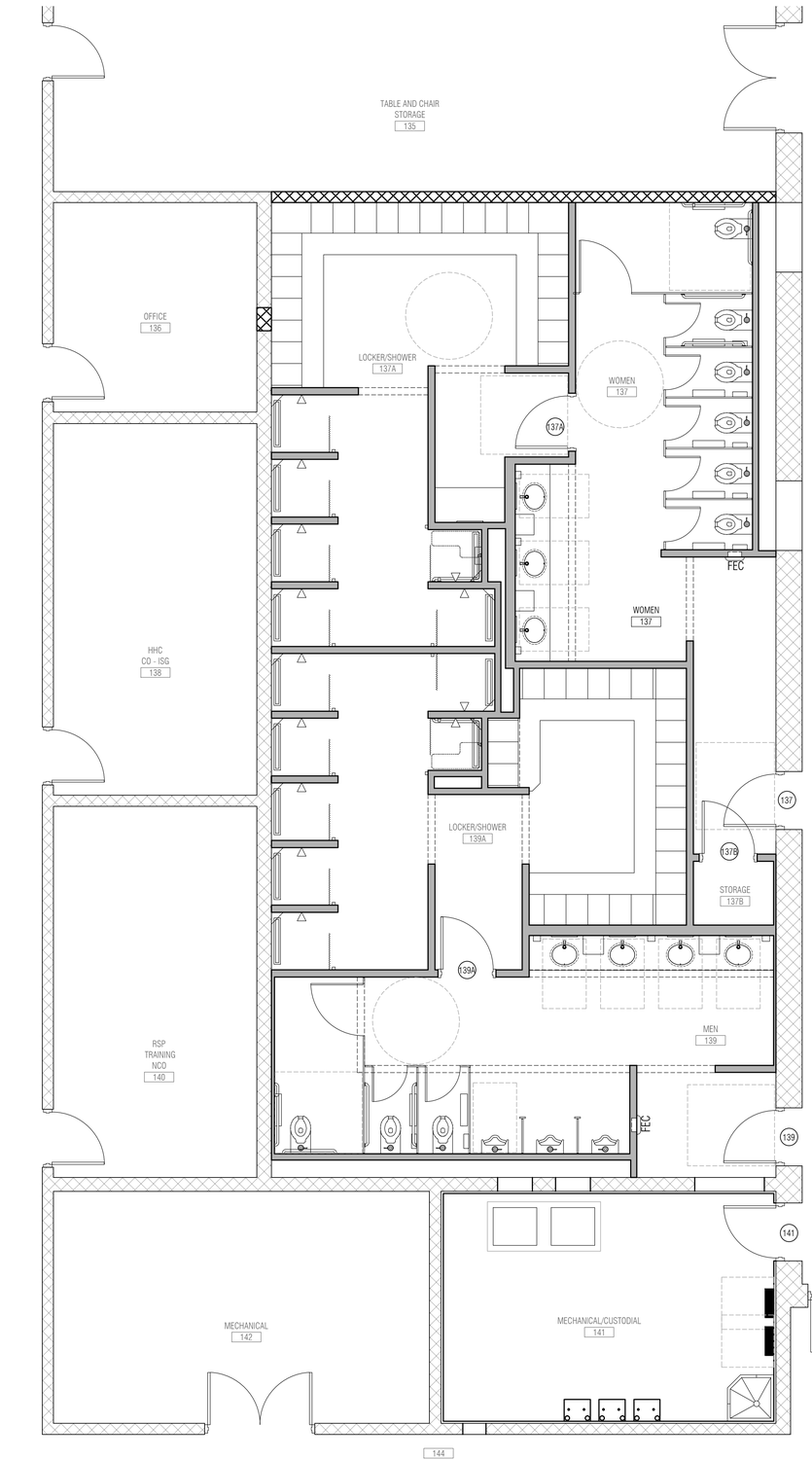
1 **JAMB**
SCALE: 1 1/2"=1'-0"



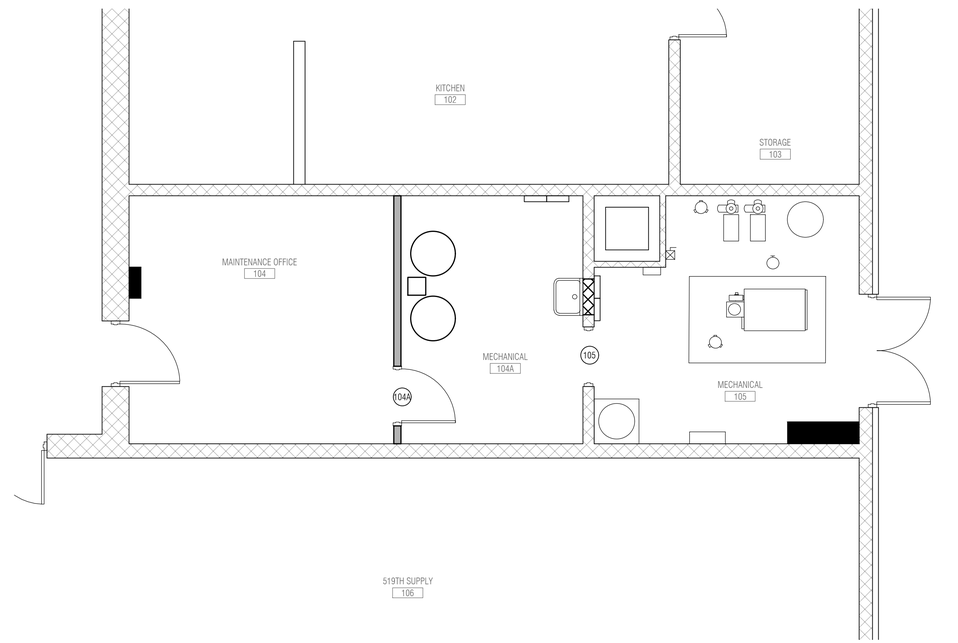
2 **HEAD**
SCALE: 1 1/2"=1'-0"



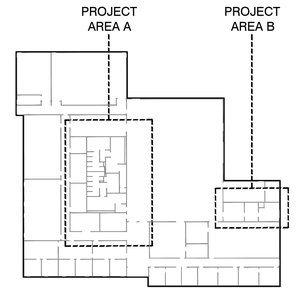
3 **DOOR/FRAME ELEVATIONS**
SCALE: 1/4"=1'-0"



PLAN **DOOR PLAN - AREA A**
SCALE: 1/4"=1'-0"



PLAN **DOOR PLAN - AREA B**
SCALE: 1/4"=1'-0"



PLAN **KEY PLAN**
NOT TO SCALE

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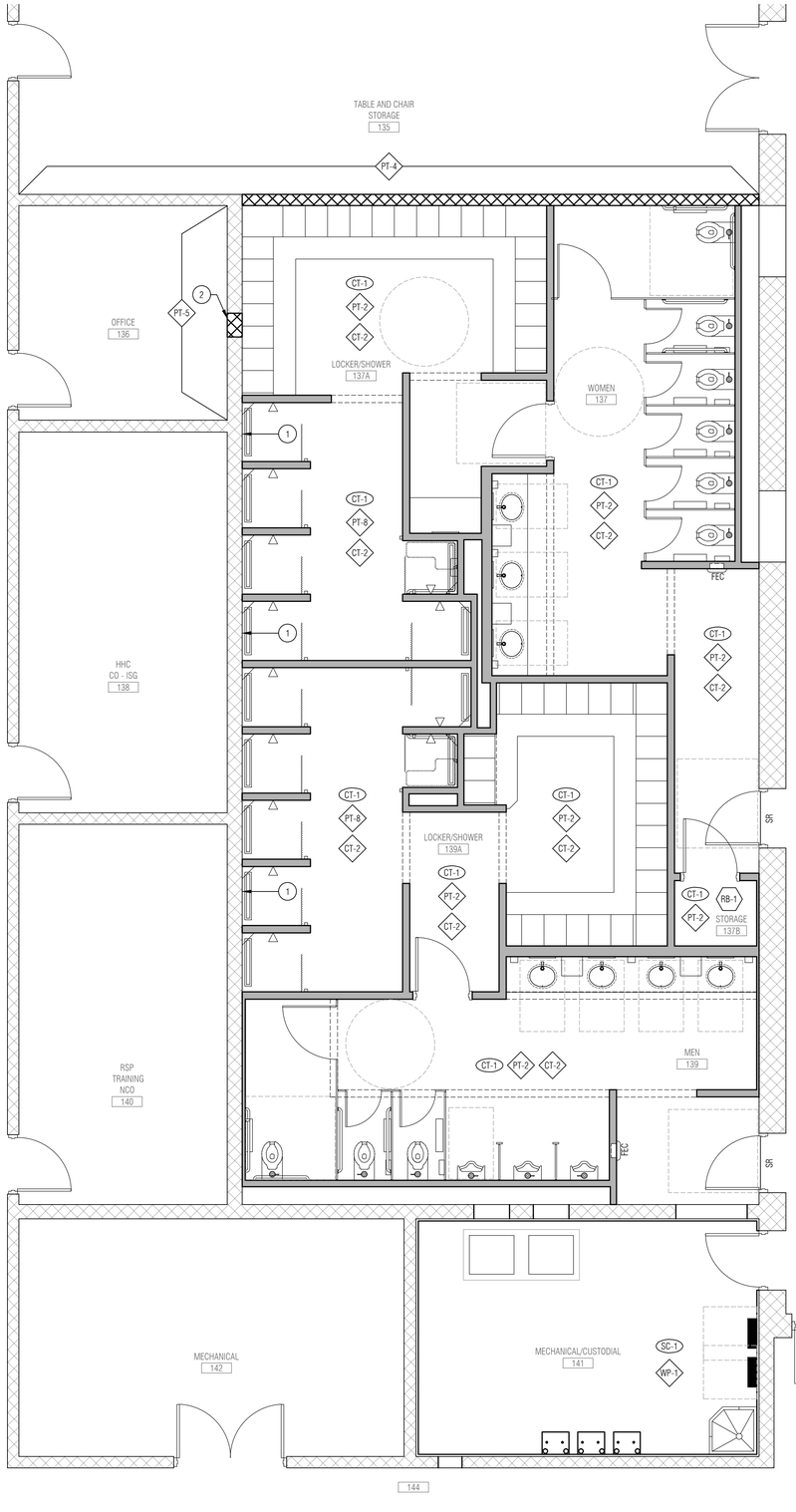
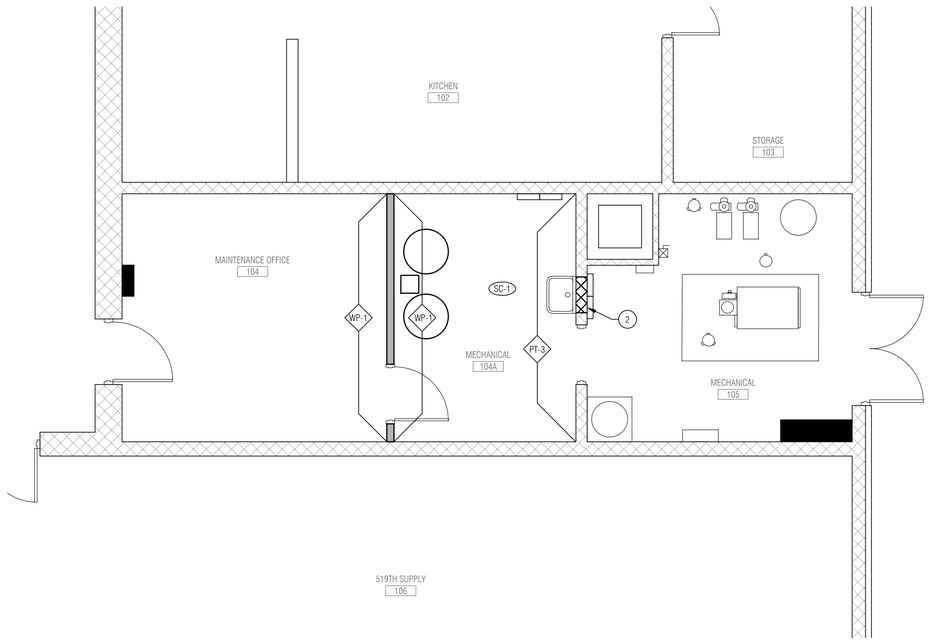
DOOR SCHEDULE DETAILS



PLAN N **ROOM FINISH PLAN - AREA A**

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

0 1' 2' 4' 8'



PLAN N **ROOM FINISH PLAN - AREA B**

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

0 1' 2' 4' 8'

FINISHES:

CT-1	MANUFACTURER:	CROSSVILLE
	COLLECTION:	READY TO WEAR
	STYLE/COLOR:	AV311 BUTTONED UP
	SIZE:	12" x 24"
SC-1	SEALED CONCRETE - REFER TO SECTION 03 35 01 INTERIOR CONCRETE SEALING	
PT-X	MANUFACTURER:	SHERWIN WILLIAMS - OR APPROVED EQUAL
		REFER TO PAINT COLOR SCHEDULE FOR PAINT COLOR SELECTIONS.
WP-1	MANUFACTURER:	MARLITE
	STYLE:	STANDARD FRP
	FINISH:	PEBBLE
	SIZE:	4' x 9'
	COLOR:	P151 LIGHT GREY
	NOTE:	PROVIDE WITH MARLITE FRP BASE MOLDING
CT-2	MANUFACTURER:	CROSSVILLE
	COLLECTION:	ACCESS POINT
	STYLE/COLOR:	WBT04 TRAVERTINE SAND
	SIZE:	12" x 24"
RB-1	MANUFACTURER:	TARKETT - JOHNSONITE
	COLLECTION:	BASEWORKS
	STYLE/COLOR:	STANDARD COVE
	SIZE:	AS SELECTED BY ARCHITECT/ENGINEER FROM MANUFACTURER'S FULL RANGE OF COLORS 4½"
	NOTE:	SCHLUTER DILEX COVE NOT REQUIRED WHERE RUBBER WALL BASE IS TO BE INSTALLED.

FINISH NOTES:

1. TILE GROUT FOR WALLS AND FLOORS SHALL BE CUSTOM BUILDING PRODUCTS PRISM GROUT, 386 OYSTER GRAY.

FINISH LEGEND:

—	FLOOR MATERIAL
–	WALL MATERIAL
–	WALL BASE MATERIAL
SR	SCHLUTER RENO-T STAINLESS STEEL FLOOR TRANSITION STRIP

GENERAL FINISH NOTES:

1. ALL FINISHES, PATTERNS, AND BLENDS/MIXES INDICATED ON THIS DRAWING AND OTHER DRAWINGS SHALL BE VERIFIED AND FINALIZED BY OWNER/ARCHITECT PRIOR TO CONTRACTOR PURCHASING MATERIALS.
2. ALL GYPSUM BOARD CEILINGS SHALL BE PAINTED COLOR PT-1 UNLESS NOTED OTHERWISE.
3. ALL HOLLOW METAL DOOR FRAMES SHALL BE PAINTED COLOR PT-7 UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL PROVIDE ONE (1) CASE/CARTON OF EACH FINISH MATERIALS SCHEDULED - AND ONE GALLON OF EACH PAINT TYPE/COLOR FOR OWNER'S ATTIC STOCK.
5. CONTRACTOR SHALL PREP AND PAINT EXISTING WALLS TO MATCH WHEN REQUIRED WORK HAPPENS OUTSIDE OF PROJECT AREA.

PAINT COLOR SCHEDULE

KEY NAME	COLOR
PT-1	SW7757 HIGH REFLECTIVE WHITE
PT-2	SW7570 EGRET WHITE
PT-3	MATCH COLOR ON ADJACENT WALLS
PT-4	MATCH COLOR ON ADJACENT WALLS
PT-5	MATCH COLOR ON ADJACENT WALLS
PT-6	SW7570 EGRET WHITE
PT-7	MATCH ADJACENT EXISTING DOOR/FRAME COLOR
PT-8	SW7570 EGRET WHITE (PRECATALYZED WATERBASED EPOXY)

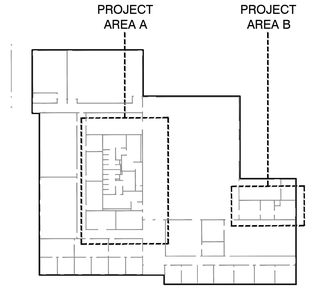
PAINT COLOR NOTES:

1. ALL GYPSUM BOARD CEILINGS AND BULKHEADS SHALL BE PAINTED PT-1 UNLESS OTHERWISE NOTED.
2. NEW HOLLOW METAL DOOR FRAMES AND TOILET SIDE OF OPENINGS 137 AND 139 SHALL BE PAINTED PT-6 IN SEMI-GLOSS UNLESS OTHERWISE NOTED.
3. DRILL FLOOR SIDE OF OPENINGS 137 AND 139 SHALL BE PAINTED PT-7.
4. OPENING 141 SHALL BE PAINTED PT-7, BOTH SIDES.
5. VERIFY BREAK BETWEEN INTERIOR LATEX AND EPOXY PAINT ON WALLS OF LOCKER/SHOWER ROOMS WITH ARCHITECT/ENGINEER AT TIME OF CONSTRUCTION.

FINISH KEYNOTES:

BASE BID

1. START FULL WALL TILE INSTALLATION AT LOW POINT IN FLOOR - CUT REMAINING TILE AROUND PERIMETER OF ROOM.
2. PAINT WALL WHERE CMU IS REPLACED - COLOR TO MATCH EXISTING WALL.



PLAN N **KEY PLAN**

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ROOM FINISH PLAN

SEISMIC RESTRAINT REQUIREMENTS:

1. ALL PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE SEISMICALLY RESTRAINED TO MEET INDIANA BUILDING CODE AND REFERENCED ASCE 07.
2. SEISMIC DESIGN CATEGORGY= C
3. ALL COMPONENTS CRITICAL TO THE CONTINUED OPERATION SHALL BE RESTRAINED.
4. ANY NATURAL GAS APPLIANCE AND ALL NATURAL GAS PIPING SHALL BE CONSIDERED TO HAVE AN IMPORTANCE FACTOR (Ip) OF 1.5.

PLUMBING GENERAL REQUIREMENTS:

DRAWINGS FOR THE WORK ARE DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF THE WORK AND TO INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION AND AS OTHER WORK WILL PERMIT. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS NECESSARY DUCT AND PIPE OFFSETS, PIPE FITTINGS, ACCESS PANELS AND SLEEVES MAY NOT BE SHOWN. CONTRACT DOCUMENTS SHOW DESIGN BASIS EQUIPMENT. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AND SUBMITTING FOR A/E APPROVAL EQUIPMENT OF EQUAL QUALITY, CAPACITY, PERFORMANCE, EFFICIENCY, WEIGHT, PHYSICAL SIZE AND CONFIGURATION TO FIT IN THE SPACE PROVIDED FOR THE DESIGN BASIS EQUIPMENT. IF EQUIPMENT OTHER THAN DESIGN BASIS IS SELECTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NECESSARY DESIGN MODIFICATIONS AND FOR COORDINATION WITH OTHER TRADES TO MEET ALL INTENDED REQUIREMENTS OF THE ORIGINAL DESIGN DOCUMENTS. THE LOCATION AND THE SIZES OF EQUIPMENT, DUCT AND PIPE FITTINGS, ACCESS PANELS, SLEEVES, INSERTS, AND OTHER BASIC ITEMS REQUIRED BY CODE OR OTHER SECTIONS SHALL BE COORDINATED AND INCLUDED FOR THE PROPER INSTALLATION OF THE WORK. INSTALL WORK IN A MANNER TO CONFORM TO STRUCTURE, AVOID OBSTRUCTION, ALLOW ACCESS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR, WITHOUT FURTHER INSTRUCTIONS OR COST.

PIPING NOTES:

A. PIPING-GENERAL
   1. ALL NEW PIPING SHALL BE SUPPORTED BY STEEL HANGERS OR BRACKETS AT SUFFICIENT INTERVALS TO MAINTAIN A STRAIGHT LINE, BUT NOT TO EXCEED 10' SPACING ON CENTERS OF HANGERS IN ANY CASE, WITH A SEPARATE HANGER FOR EACH BRANCH.
   2. WHERE INSULATED PIPE IS SUPPORTED, PROVIDE SADDLES, BLOCKS OR APPROVED METHOD TO PROTECT INSULATION FROM BEING CRUSHED.
   3. ONLY LONG RADIUS ELBOWS SHALL BE USED.
   3. SEE PROJECT MANUAL (SPECIFICATIONS) FOR FURTHER INFORMATION.

B. DOMESTIC WATER PIPING
   1. ALL ABOVE GROUND DOMESTIC HOT WATER (HW) AND COLD WATER (CW) PIPING SHALL BE ASTM B88 TYPE L COPPER, HARD DRAWN TEMPER. FITTINGS SHALL BE ASME B16.18, CAST COPPER ALLOY OR ASME B16.22 WROUGHT COPPER. ALL FITTINGS SHALL BE SOLDER JOINT.
   2. AT ALL FINISHED ROOMS OTHER THAN MECHANICAL ROOMS, USE CHROME PLATED BRASS PIPING AND BRASS OR BRONZE VALVES WITH CHROME FINISH FOR EXPOSED WATER OR OTHER PIPING CONNECTING FIXTURES, CASEWORK, CABINETS, AND EQUIPMENT WHEN NOT CONCEALED BY APRON. FITTINGS, UNIONS AND NIPPLES SHALL ALSO BE BRASS OR BRONZE WITH CHROME FINISH. FURNISH AND INSTALL KEYED STOPS AT ALL NEW FIXTURE CONNECTIONS.

C. SANITIZING
   1. CONTRACTOR SHALL FLUSH AND CLEAN ALL PIPING AS NECESSARY TO MEET ALL HEALTH CODE REQUIREMENTS AND LOCAL UTILITY WATER CONNCECTION REQUIREMENTS.

HOUSEKEEPING PAD NOTES:

1. NEW CONCRETE PATCH MATERIAL AND NEW HOUSEKEEPING PAD MATERIAL SHALL BE 4,000 PSI COMPRESSIVE STRENGTH CONCRETE. CONCRETE MIX DESIGN SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL. CONCRETE SHALL BE TROWEL FINISHED AND GROUND SMOOTH TO MATCH ADJACENT CONCRETE FINISH. CONTRACTOR SHALL TREAT ALL NEW CONCRETE WITH A LITHIUM SILICATE HARDENER/DENSIFIER EQUAL TO PROSOCO CONSOLIDECK LS/CS. USE PRE-DENSIFIER CONCRETE CLEANER AS SUGGESTED BY MANUFACTURER. INCLUDE ALL WORK PER THE MANUFACTURER'S RECOMMENDATIONS AND AS NECESSARY TO ACHIEVE MATCHING FINAL CONCRETE FINISH.

FIREBLOCKING NOTES:

1. FIREBLOCKING FOR ALL WALL, FLOOR, AND ROOF PENETRATIONS ASSOCIATED WITH WORK INDICATED ARE THE RESPONSIBILITY OF THIS CONTRACTOR. DUCTWORK, PIPING, LINE-SETS, CONDUCTORS, AND ANY OTHER PENETRATIONS SHALL HAVE THE ANNULAR SPACE AT THE PENETRATION FILLED WITH AN APPROVED NON-COMBUSTIBLE MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION.

GENERAL PROJECT NOTES:

1. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR ALL WORK RELATED TO THEIR TRADE ON ALL CONSTRUCTION DRAWINGS.
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK - ANY DISCREPANCIES SHALL CONFORM TO ACTUAL EXISTING CONDITIONS UPON APPROVAL OF OWNER - REPORT ANY DISCREPANCIES TO OWNER PRIOR TO THE CONTINUATION OF WORK.
3. WHERE A KEYNOTE IS INDICATING WORK TO BE PERFORMED, THE KEYNOTE IS INTENDED TO BE TYPICAL FOR ALL LOCATIONS. PERFORM WORK AT ALL LOCATIONS WHERE OCCURS AS REQUIRED TO COMPLETE WORK UNLESS OTHERWISE INDICATED.
4. BUILDING WILL REMAIN IN USE BY OWNER THROUGHOUT CONSTRUCTION. COORDINATE ALL DEMOLITION AND CONSTRUCTION ACTIVITIES WITH OWNER. PROVIDE 72 HOUR NOTICE TO OWNER PRIOR TO DISCONNECTING UTILITIES OR CAUSING SHUTDOWNS THAT AFFECT PORTIONS OF THE BUILDING OUTSIDE THE CONSTRUCTION AREAS.

PLUMBING LEGEND:

HW	DOMESTIC HOT WATER (NEW)		CHECK VALVE
HWR	DOMESTIC HOT WATER RETURN (NEW)		ISOLATION VALVE, QUARTER-TURN BALL OR BUTTERFLY, SEE PROJECT MANUAL
CW	DOMESTIC COLD WATER (NEW)		
HW	DOMESTIC HOT WATER (EXISTING)		
CW	DOMESTIC COLD WATER (EXISTING)		CIRCUIT SETTER BALANCE VALVES
SAN	SANITARY SEWER (NEW)		
SAN	SANITARY SEWER (EXISTING)		ELBOW - UP
G	NATURAL GAS (NEW)		
G	NATURAL GAS (EXISTING)		ELBOW - DOWN
SV	SANITARY SEWER VENT (NEW)		
SV	SANITARY SEWER VENT (EXISTING)		REDUCER
	ABOVE GRADE PIPING		UNION
	BELOW GRADE PIPING		CAP
	CIRCULATOR (PUMP)		T&P RELIEF VALVE
	BALL VALVE (FULL PORT)		
	BUTTERFLY VALVE		TIE IN CONNECTION
OSD	OPEN SIGHT DRAIN		

PLUMBING FIXTURE CONNECTION SCHEDULE

TAG	DESCRIPTION	MINIMUM CONNECTION SIZES IN INCHES			
		SOIL OR WASTE	VENT	COLD WATER	HOT WATER
ICE	ICE MAKER BOX			1/2"	
FD or SD	FLOOR DRAIN	3"	2"		
FS	FLOOR SINK	3"	2"		
WC or HWC	WATER CLOSET	4"	3"	1"	
UR or HUR	URINAL	2"	1 1/2"	3/4"	
LAV	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"
SK	SINK	1 1/2"	1 1/2"	1/2"	1/2"
MOP	MOP BASIN	3"	2"	3/4"	3/4"
EWC	ELECTRIC WATER COOLER	2"	1 1/2"	1/2"	
CW	CLOTHES WASHER BOX	2"	1 1/2"	1/2"	1/2"
HYD	HYDRANT			3/4"	
HS	HAND SINK	2"	1 1/2"	1/2"	1/2"

GENERAL NOTES:
1. USE REDUCERS OR INCREASE PIPE SIZE TO ACCOMMODATE MANUFACTURER CONNECTIONS AT FIXTURES WHERE THEY DIFFER FROM THIS SCHEDULE
2. NOT LESS THAN 2-INCH PIPE BELOW CONCRETE SLABS

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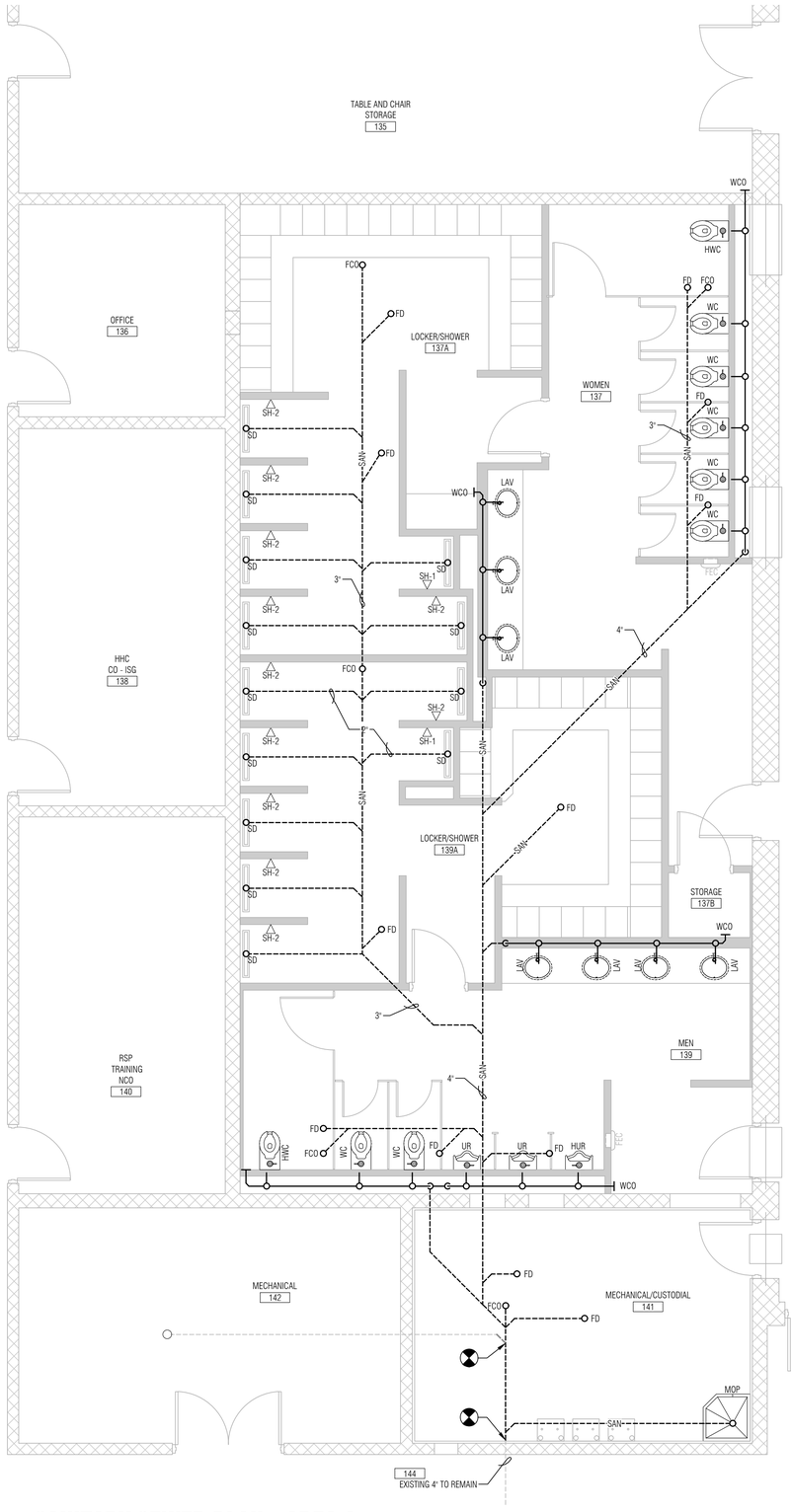
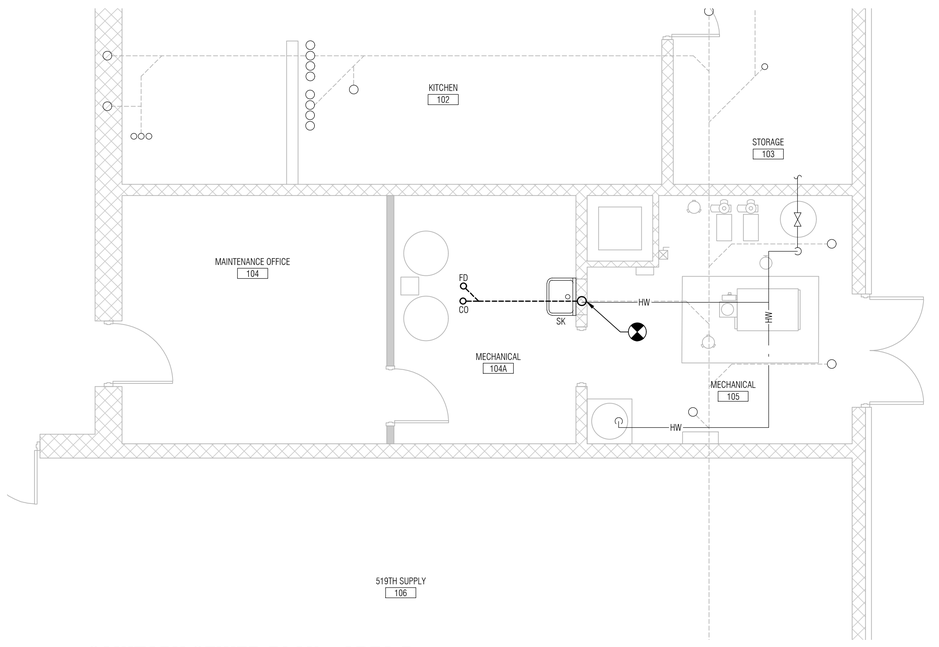
PLUMBING GENERAL INFORMATION



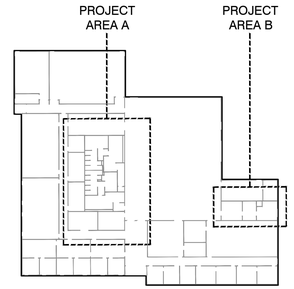
PLAN N **SANITARY SEWER PLAN - AREA A**

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



PLAN N **SANITARY SEWER PLAN - AREA B**

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



PLAN N **KEY PLAN**

NOT TO SCALE

GENERAL NOTES:

1. SEE DEMOLITION DRAWING FOR REMOVAL OF EXISTING FIXTURES AND SEWERS. REMOVE ALL UNDERGROUND SEWERS NOT REQUIRED FOR NEW SYSTEM.
2. SANITARY SHOWN IS BASED ON EXISTING DRAWINGS AND FIELD OBSERVATIONS. PRIOR TO DEMOLITION,CONTRACTOR SHALL MEASURE INVERTS TO VERIFY NEW FIXTURE CONNECTION AND AND BRANCH/MAIN CONNECTION. REPORT ANY DISCREPANCIES TO OWNER PRIOR TO THE CONTINUATION OF WORK.
3. CONTRACTOR SHALL ASSUME THAT UNDER SLAB ELECTRICAL FEEDERS EXIST AND SHALL REMAIN. REPORT ANY EXISTING FEEDERS IN WAY OF NEW SEWER WORK PRIOR TO CONTINUATION OF WORK.

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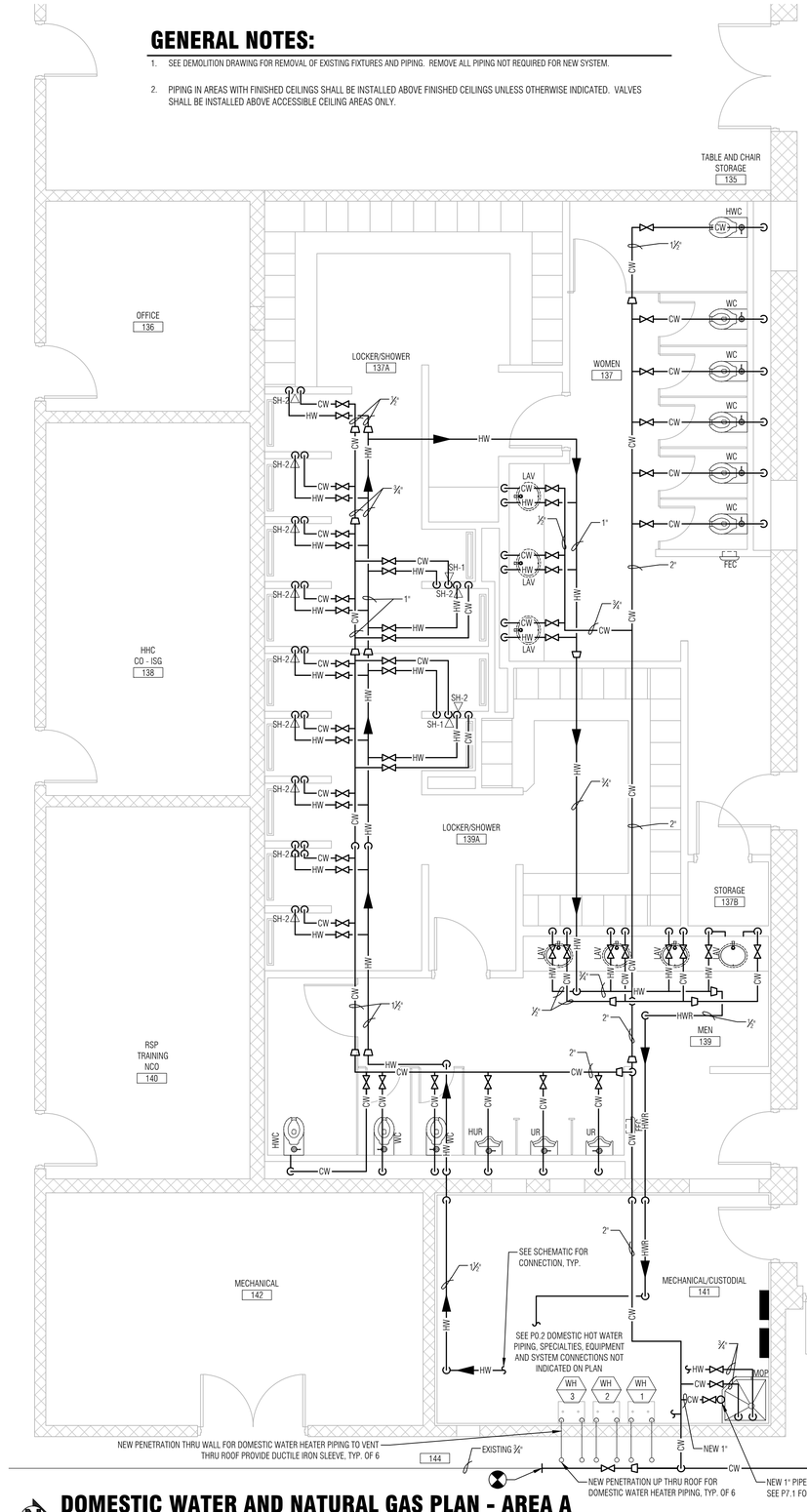
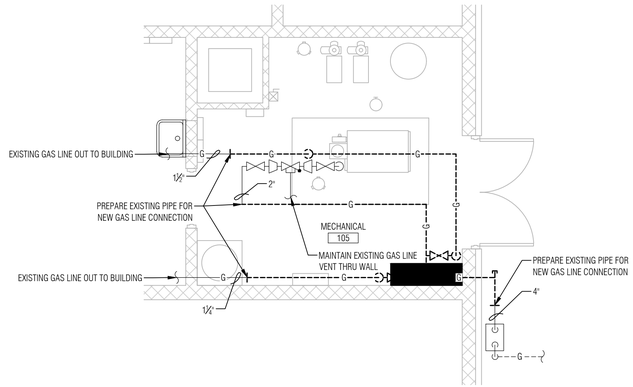
SANITARY SEWER PLAN

GENERAL NOTES:

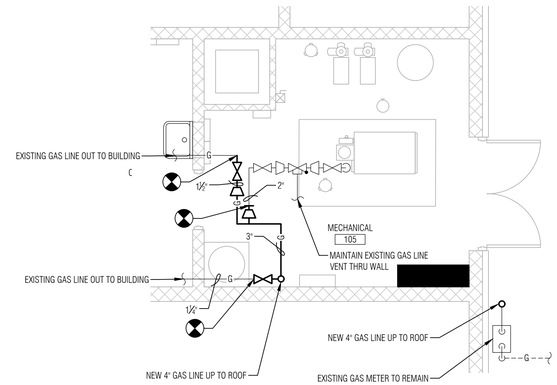
1. SEE DEMOLITION DRAWING FOR REMOVAL OF EXISTING FIXTURES AND PIPING. REMOVE ALL PIPING NOT REQUIRED FOR NEW SYSTEM.
2. PIPING IN AREAS WITH FINISHED CEILINGS SHALL BE INSTALLED ABOVE FINISHED CEILINGS UNLESS OTHERWISE INDICATED. VALVES SHALL BE INSTALLED ABOVE ACCESSIBLE CEILING AREAS ONLY.



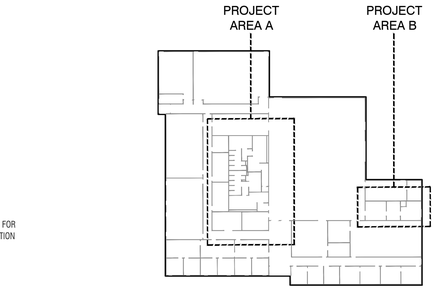
PLAN N **DOMESTIC WATER AND NATURAL GAS PLAN - AREA A**
SCALE: 1/4"=1'-0"



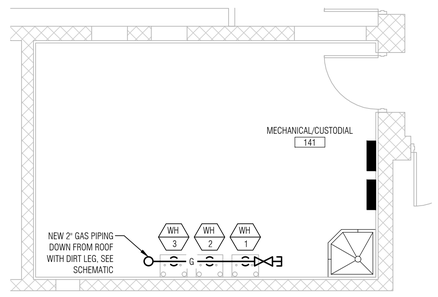
PLAN N **NATURAL GAS DEMOLITION PLAN - AREA B**
SCALE: 1/4"=1'-0"



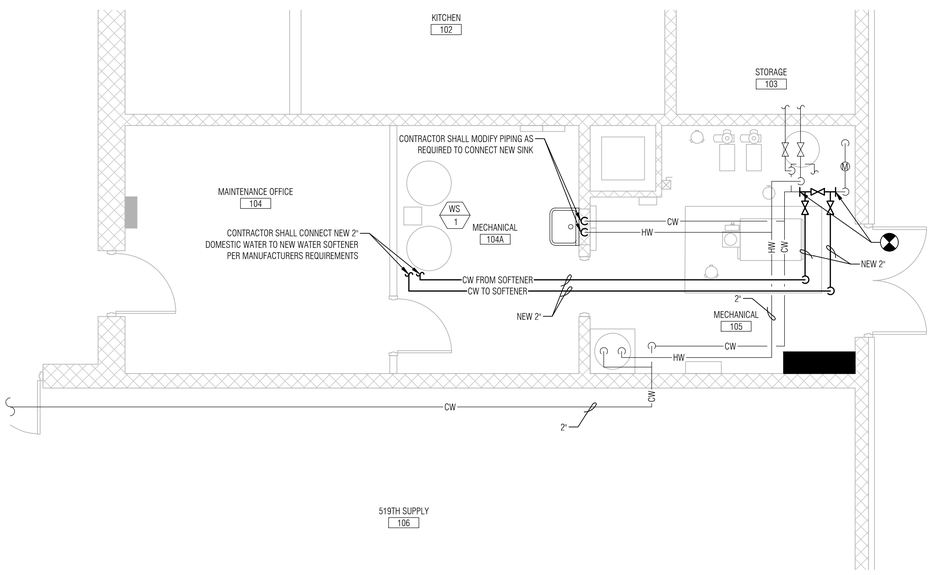
PLAN N **NATURAL GAS NEW PLAN - AREA B**
SCALE: 1/4"=1'-0"



PLAN N **KEY PLAN**
NOT TO SCALE



PLAN N **NATURAL GAS NEW PLAN - AREA A**
SCALE: 1/4"=1'-0"



PLAN N **DOMESTIC WATER PLAN - AREA B**
SCALE: 1/4"=1'-0"

ISSUE	DESCRIPTION	DATE
0	ISSUED FOR BIDDING AND CONSTRUCTION	05/31/2024

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05-31-2024

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05/31/2024

TERRE HAUTE RC FEMALE LATRINE EXPANSION
INDIANA NATIONAL GUARD
IFB NO: MDI-SAB-24-B-002
3614 MAPLE AVENUE
TERRE HAUTE, INDIANA 47804

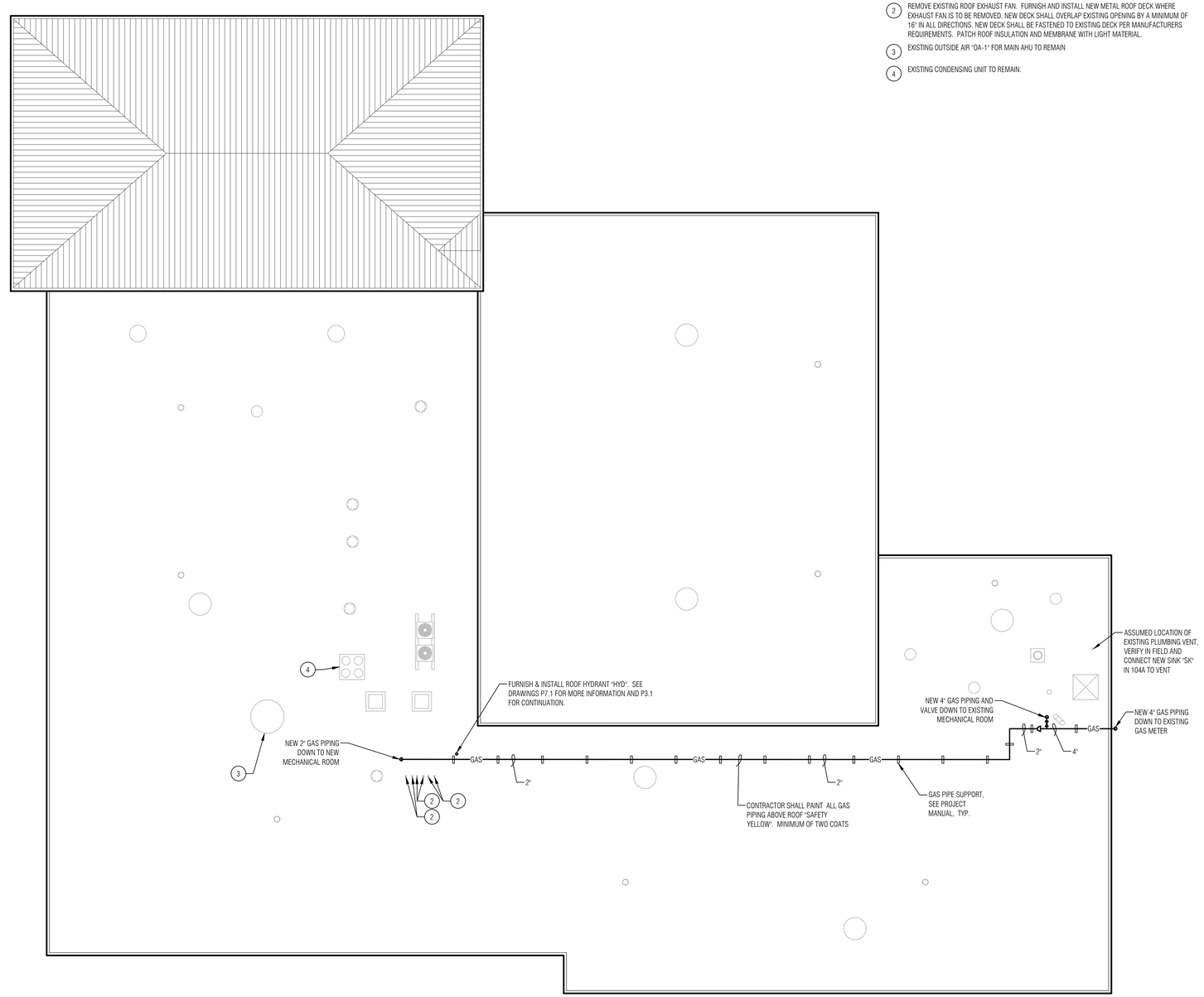
SHEET NO.
P3.1
DOMESTIC WATER AND NATURAL GAS PLAN

GENERAL NOTES:

1. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR ALL WORK RELATED TO THEIR TRADE ON ALL CONSTRUCTION DRAWINGS.
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK. - ANY DISCREPANCIES SHALL CONFORM TO ACTUAL EXISTING CONDITIONS UPON APPROVAL OF OWNER - REPORT ANY DISCREPANCIES TO OWNER PRIOR TO THE CONTINUATION OF WORK.
3. WHERE A KEYNOTE IS INDICATING WORK TO BE PERFORMED, THE KEYNOTE IS INTENDED TO BE TYPICAL FOR ALL LOCATIONS. PERFORM WORK AT ALL LOCATIONS WHERE OCCURS AS REQUIRED TO COMPLETE WORK UNLESS OTHERWISE INDICATED.

KEYNOTES:

1. NEW EXHAUST FAN - REFER TO MECHANICAL DRAWINGS.
2. REMOVE EXISTING ROOF EXHAUST FAN. FURNISH AND INSTALL NEW METAL ROOF DECK WHERE EXHAUST FAN IS TO BE REMOVED. NEW DECK SHALL OVERLAP EXISTING OPENING BY A MINIMUM OF 16" IN ALL DIRECTIONS. NEW DECK SHALL BE FASTENED TO EXISTING DECK PER MANUFACTURERS REQUIREMENTS. PATCH ROOF INSULATION AND MEMBRANE WITH LIGHT MATERIAL.
3. EXISTING OUTSIDE AIR "OA-1" FOR MAIN AHU TO REMAIN
4. EXISTING CONDENSING UNIT TO REMAIN.



PLAN N **PLUMBING ROOF PLAN**
SCALE: 3/32" = 1'-0"

0 2' 5' 10' 20'

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SHEET NO.
P5.1
PLUMBING ROOF PLAN

DOMESTIC WATER HEATER SCHEDULE

WH XX

TAG NO.	LOCATION	MANUFACTURER	MODEL	WATER CONN. SIZE	MBH INPUT MIN.	MBH INPUT MAX.	THERMAL EFF.	GAS CONN. SIZE	ELECTRICAL VOLTS/PHASE/Hz	WEIGHT (LBS)	REMARKS
WH 1	BOILER ROOM WALL HUNG	INTELLIHOT	IQ251	3/4" NPT	30	251	96%	3/4" NPT	120 V/ 1Ø / 60	90	NATURAL GAS FIRED, FULLY CONDENSING ON-DEMAND WATER HEATER, SEALED COMBUSTION, ELECTRONIC IGNITION
WH 2	BOILER ROOM WALL HUNG	INTELLIHOT	IQ251	3/4" NPT	30	251	96%	3/4" NPT	120 V/ 1Ø / 60	90	NATURAL GAS FIRED, FULLY CONDENSING ON-DEMAND WATER HEATER, SEALED COMBUSTION, ELECTRONIC IGNITION
WH 3	BOILER ROOM WALL HUNG	INTELLIHOT	IQ251	3/4" NPT	30	251	96%	3/4" NPT	120 V/ 1Ø / 60	90	NATURAL GAS FIRED, FULLY CONDENSING ON-DEMAND WATER HEATER, SEALED COMBUSTION, ELECTRONIC IGNITION

GENERAL NOTES:

1. PROVIDE HIGH-TEMPERATURE POLYPROPYLENE VENT PIPING AND COMBUSTION INLET PIPING AS INDICATED AND COORDINATE WITH ROOFING CONTRACTOR.
2. FURNISH AND INSTALL ALL WALL SUPPORT ITEMS.
3. SET OUTLET WATER TEMPERATURE FOR 140 DEG F.
4. FOR EACH WATER HEATER FURNISH AND INSTALL NEW NATURAL GAS REGULATOR, SIZED BY MANUFACTURER, FOR EXISTING GAS PRESSURES AND APPLIANCE LOAD. REGULATORS SHALL INCLUDE VENT LIMITERS.

DOMESTIC WATER EQUIPMENT SCHEDULE:

GENERAL NOTE:
BIDDER SHALL VERIFY THAT EACH FIXTURE MEETS BUY AMERICAN ACT (BAA) AS DESCRIBED IN PROJECT MANUAL

TMV-1:
THERMOSTATIC MIXING VALVE SHALL BE SYMMONS TEMPCONTROL HI-LOW MODEL 7-700-102-PRV INCLUDING TWO (2) THERMOSTATIC CONTROLLERS WITH CHECK STOPS, REMOVABLE CARTRIDGE WITH STAINLESS STEEL PISTON AND THERMAL MOTOR AND TURBULATOR, INLET MANIFOLD PIPING, PRESSURE REDUCING VALVE (PRV), TWO (2) PRESSURE GAUGES, TWO (2) BALL VALVES, BI-METAL DIAL THERMOMETER 3" FACE, RANGE 20°–240°F, CONNECTING PIPING AND FITTINGS. 1-1/4" INLETS AND 1-1/2" OUTLETS. 43 GPM AT 10 PSI DIFFERENTIAL ACROSS ASSEMBLY. SATIN SPRAY WITH POLISHED CHROME FINISH. UNIT SHALL BE FACTORY ASSEMBLED AND TESTED. ASSEMBLY SHALL BE CERTIFIED FOR ASME A112.18.1, ASSE 1017, AND NSF 372.

HWRP-1:
DOMESTIC HOT WATER RE-CIRCULATING PUMP SHALL BE EQUAL TO BELL AND GOSSETT PL-55 LEAD-FREE BRONZE CIRCULATOR WITH 3/4-INCH FLANGED CONNECTIONS. 2/5 HP, ELECTRICAL SHALL BE 120 VOLTS, SINGLE PHASE. MOUNT TO WALL NEAR TMV-1.

WS-1:
WATER SOFTENER SHALL BE AQUA SYSTEMS 1500 GEN II 2" SERIES, 375,000 GRAIN, ADVANCED ELECTRONICS, COLORED USER ALERT & INFORMATION SCREENS, FIBERGLASS TANKS, PREMIUM ION EXCHANGE RESIN, PRE-PROGRAMMED & PREPARED FOR ON SITE ASSEMBLY. SEAMLESS BLOW MOLDED OR ROTATIONAL MOLDED BRINE TANKS, PRESSURE GAUGE/SAMPLE VALVE PORTS, PRE-SERVICE RINSE, SOFT WATER REFILL, SERVICE ALARM

PLUMBING FIXTURE SCHEDULE:

GENERAL NOTE:
BIDDER SHALL VERIFY THAT EACH FIXTURE MEETS BUY AMERICAN ACT (BAA) AS DESCRIBED IN PROJECT MANUAL

HWC:
KOHLER, KINGSTON ULTRA, MODEL K-84325, VITREOUS CHINA, WALL-MOUNTED, ELONGATED BOWL, 1-1/2" INLET TOP SPUD, HIGH EFFICIENCY 1.28 GPF, DIRECT-FED SIPHON JET ACTION, FULLY GLAZED 2⅛" TRAPWAY, 11"x8 ¼" WATER SURFACE AREA, MEETS ASME FLUSH REQUIREMENTS AT 1.28 GPF.

FLUSH VALVE: SLOAN, MODEL ECOS EXPOSED SENSOR HARDWIRE WATER CLOSET FLUSHOMETER, MODEL 115-1.28-LT, 1.28 GPF, FLEX TUBE DIAPHRAGM, POLISHED CHROME FINISH, 1" IPS SCREWDRIVER ANGLE STOP, LINE POWERED WITH 6 VAC STEP DOWN TRANSFORMER, ADA COMPLIANT, BAA COMPLIANT, WATERSENSE CERTIFIED.

TOILET SEAT: BEMIS, MODEL 1955SSCT, HEAVY DUTY, OPEN FRONT LESS COVER FOR ELONGATED BOWL, WITH STA-TITE COMMERCIAL FASTENING SYSTEM, SELF-SUSTAINING CHECK HINGES WITH STAINLESS STEEL POSTS.

CARRIER, SIOUX CHIEF, 837 SERIES, HEAVY DUTY, HORIZONTAL WATER CLOSET CARRIER WITH FLOOR MOUNTED FOOT SUPPORT, REAR ANCHOR, 7" ABS COUPLING, WITH O-RING, TEST CAP, THREADED ZINC PLATED SUPPORT STUDS AND HARDWARE, STUD PROTECTORS, NEOPRENE BOWL, GASKET, CHROME PLATED CAP NUTS, AND ADJUSTABLE FACEPLATE.

HW:
KOHER, KINGSTON ULTRA, MODEL K-84325, VITREOUS CHINA, WALL-MOUNTED, ELONGATED BOWL, 1-1/2" INLET TOP SPUD, HIGH EFFICIENCY 1.28 GPF, DIRECT-FED SIPHON JET ACTION, FULLY GLAZED 2⅛" TRAPWAY, 11"x8 ¼" WATER SURFACE AREA, MEETS ASME FLUSH REQUIREMENTS AT 1.28 GPF.

FLUSH VALVE: SLOAN, MODEL ECOS EXPOSED SENSOR HARDWIRE WATER CLOSET FLUSHOMETER, MODEL 115-1.28-LT, 1.28 GPF, FLEX TUBE DIAPHRAGM, POLISHED CHROME FINISH, 1" IPS SCREWDRIVER ANGLE STOP, LINE POWERED WITH 6 VAC STEP DOWN TRANSFORMER, ADA COMPLIANT, BAA COMPLIANT, WATERSENSE CERTIFIED.

TOILET SEAT: BEMIS, MODEL 1955SSCT, HEAVY DUTY, OPEN FRONT LESS COVER FOR ELONGATED BOWL, WITH STA-TITE COMMERCIAL FASTENING SYSTEM, SELF-SUSTAINING CHECK HINGES WITH STAINLESS STEEL POSTS.

CARRIER, SIOUX CHIEF, 837 SERIES, HEAVY DUTY, HORIZONTAL WATER CLOSET CARRIER WITH FLOOR MOUNTED FOOT SUPPORT, REAR ANCHOR, 7" ABS COUPLING, WITH O-RING, TEST CAP, THREADED ZINC PLATED SUPPORT STUDS AND HARDWARE, STUD PROTECTORS, NEOPRENE BOWL, GASKET, CHROME PLATED CAP NUTS, AND ADJUSTABLE FACEPLATE.

HUR:
KOHLER, BARDON MODEL K-1991-ET, VITREOUS CHINA, WALL HUNG, HIGH EFFICIENCY 0.5 GPF, ELONGATED 14" RIM FROM FINISHED WALL, WASHOUT FLUSH ACTION, ¾" INLET TOP SPUD, OUTLET CONNECTION THREADED 2" INSIDE, MEETS ASME FLUSH REQUIREMENTS AT 0.5 GPF, STAINLESS STEEL STRAINER, RIM HEIGHT SHALL BE 17" ABOVE FINISH FLOOR.

FLUSH VALVE: SLOAN, MODEL ECOS EXPOSED SENSOR HARDWIRE URINAL FLUSHOMETER, MODEL 186 HW, 0.5 GPF, FLEX TUBE DIAPHRAGM, POLISHED CHROME FINISH, 3/4" IPS SCREWDRIVER ANGLE STOP, LINE POWERED WITH 6 VAC STEP DOWN TRANSFORMER, ADA COMPLIANT, BAA COMPLIANT, WATERSENSE CERTIFIED.

CARRIER, CONCEALED CARRIER, SIOUX CHIEF, 837 SERIES URINAL SUPPORT, RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, ADJUSTABLE SUPPORT PLATES AND MOUNTING FASTENERS.

UR:
KOHLER, BARDON MODEL K-1991-ET, VITREOUS CHINA, WALL HUNG, HIGH EFFICIENCY 0.5 GPF, ELONGATED 14" RIM FROM FINISHED WALL, WASHOUT FLUSH ACTION, ¾" INLET TOP SPUD, OUTLET CONNECTION THREADED 2" INSIDE, MEETS ASME FLUSH REQUIREMENTS AT 0.5 GPF, STAINLESS STEEL STRAINER, RIM HEIGHT SHALL BE 24" ABOVE FINISH FLOOR.

FLUSH VALVE: SLOAN, MODEL ECOS EXPOSED SENSOR HARDWIRE URINAL FLUSHOMETER, MODEL 186 HW, 0.5 GPF, FLEX TUBE DIAPHRAGM, POLISHED CHROME FINISH, 3/4" IPS SCREWDRIVER ANGLE STOP, LINE POWERED WITH 6 VAC STEP DOWN TRANSFORMER, ADA COMPLIANT, BAA COMPLIANT, WATERSENSE CERTIFIED.

CARRIER, CONCEALED CARRIER, SIOUX CHIEF, 837 SERIES URINAL SUPPORT, RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, ADJUSTABLE SUPPORT PLATES AND MOUNTING FASTENERS.

LAV:
SLOAN, VITREOUS CHINA OVAL UNDERMOUNT SINK, MODEL SS-3001-STG, FRONT OVERFLOW, UNGLAZED RIM FOR UNDERCOUNTER MOUNTING SUPPLIED WITH MOUNTING KIT.

FAUCET: SLOAN BASYS HARDWIRED-POWERED DECK MOUNTED LOW BODY, MODEL EFX-300-200-000 0, POLISHED CHROME FINISH, SENSOR ACTIVATED, 0.5 GPM AERATOR, SENSOR RANGE ADJUSTMENT SCREW, FILTERED SOLENOID VALVE WITH SERVICEABLE STRAINER FILTER, WATERSENSE CERTIFIED.

DRAIN/TAILPIECE, MCGUIRE, MODEL # 155WC, HEAVY CAST BRASS, OFFSET, 1¼" DIA., 17 GAUGE, SEAMLESS BRASS, BRASS LOCKNUT, HEAVY RUBBER BASIN WASHER, FIBER FRICTION WASHER, CHROME PLATED.

P-TRAP, MCGUIRE, MODEL # 8902C, HEAVY CAST BRASS, 1¼"x1½", ADJUSTABLE CLEANOUT PLUG, SLIP NUTS, 17 GAUGE TUBULAR WALL BEND, STEEL SHALLOW FLANGE, CHROME PLATED

SUPPLIES, MCGUIRE, MODEL # LFBV2165, QUARTER TURN BALL VALVES, ½" IPS x ⅜" OD, COPPER FLEXIBLE RISERS, STEEL SHALLOW FLANGES, CHROME PLATED.

SK:
ELKAY, MODEL EWS2520W4C, WALL HUNG SINGLE BOWL HAND WASH SINK, WITH ELKAY LK18B 3½" TYPE 304 STAINLESS STEEL STRAINER AND TAILPIECE, AND ELKAY LK940GN05T4H SCRUB/HANDWASH 8" CENTERSET WALL MOUNT FAUCET WITH 5" GOOSENECK SPOUT, 4" WRISTBLADE HANDLES, ½" OFFSET INLET.

P-TRAP, MCGUIRE, MODEL # 8902C, HEAVY CAST BRASS, 1¼"x1½", ADJUSTABLE CLEANOUT PLUG, SLIP NUTS, 17 GAUGE TUBULAR WALL BEND, STEEL SHALLOW FLANGE, CHROME PLATED

SUPPLIES, MCGUIRE, MODEL # LFBV2165, QUARTER TURN BALL VALVES, ½" IPS x ⅜" OD, COPPER FLEXIBLE RISERS, STEEL SHALLOW FLANGES, CHROME PLATED.

SH-1:
SHOWER VALVE AND SHOWER SYSTEM SHALL BE CHICAGO FAUCETS MODEL NO. SH-PB1-17-040, PRESSURE BALANCING SHOWER VALVE, DIVERTER VALVE, 1.5 GPM MAX. FLOW RATE WALL MOUNTED HEAD, 1.5 GPM HAND SPRAYER WITH 59" STAINLESS STEEL HOSE AND PAUSE CONTROL, 24" WALL MOUNTED SLIDE BAR WITH SPRAY HEAD HOLDER, WITH PRESSURE BALANCING CARTRIDGE, 1/2" NOMINAL COPPER AND 1/2" NPT HOT AND COLD SUPPLY INLETS AND OUTLETS, INTEGRAL SERVICE STOPS AND AND CHECKS. SHOWER HEAD SHALL INCLUDE ARM AND WALL FLANGE. 24" WALL-MOUNTED SLIDE BAR WITH HAND SPRAY HOLDER. SHOWERHEAD SHALL BE CHICAGO FAUCETS MOEDEL NO. 622-LCP, 1.5 GPM MAX. WITH ADJUSTABLE SPRAY PATTERN. THIS PRODUCT SHALL MEET ADA ANSI/ICC A117.1 REQUIREMENTS AND SHALL BE TESTED AND CERTIFIED TO INDUSTRY STANDARDS: ASME A112.18.1/CSA B125.1, AND ASSE 1016.

SH-2:
SHOWER VALVE AND SHOWER SYSTEM SHALL BE CHICAGO FAUCETS MODEL NO. 1907-620LCP, THERMOSTATIC PRESSURE BALANCING SHOWER VALVE, 1.5 GPM MAX. FLOW RATE WALL MOUNTED HEAD WITH PRESSURE BALANCING CARTRIDGE, 1/2" NOMINAL COPPER AND 1/2" NPT HOT AND COLD SUPPLY INLETS AND OUTLETS, INTEGRAL SERVICE STOPS AND AND CHECKS. SHOWER HEAD SHALL INCLUDE ARM AND WALL FLANGE. SHOWERHEAD SHALL BE CHICAGO FAUCETS MOEDEL NO. 622-LCP, 1.5 GPM MAX. WITH ADJUSTABLE SPRAY PATTERN. THIS PRODUCT SHALL MEET ADA ANSI/ICC A117.1 REQUIREMENTS AND SHALL BE TESTED AND CERTIFIED TO INDUSTRY STANDARDS: ASME A112.18.1/CSA B125.1, AND ASSE 1016.

SD:
SCHLUTER KERDI-LINE LOW PROFILE LINEAR FLOOR DRAIN ASSEMBLY 31½"x3" WITH SOLID BRUSHED STAINLESS STEEL INLET. INCLUDE DRAIN BODY WITH 2" OUTLET, COORDINATE ALL WITH TILE INSTALLATION.

MOP:
STERN-WILLIAMS CORLOW, MODEL #SBC-1725, 32x32x12. SHOULDERS SHALL NOT BE LESS THAN 9-3/4" HIGH INSIDE MEASUREMENT, AND NOT LESS THAN 1-1/4" WIDE. 6" DROP AT THRESHOLD. DRAIN SHALL BE CAST BRASS WITH STAINLESS STEEL STRAINER CAST INTEGRAL AND SHALL PROVIDE FOR A CAULKED LEAD CONNECTION NOT LESS THAN 1" DEEP TO A 3" PIPE. RECEPTOR COMPOSED OF PEARL GRAY MARBLE CHIPS AND WHITE PORTLAND CEMENT GROUND SMOOTH, GROUTED AND SEALED TO RESIST STAINS. STAINLESS STEEL CAP OF ONE PIECE 20 GA. 302 STAINLESS STEEL CAST INTEGRAL ON THRESHOLD. INCLUDE ALL OF THE FOLLOWING: T-35 HOSE (36') AND WALL HOOK. T-40 STAINLESS STEEL MOP HANGER, 24" LONG, WITH 3 RUBBER SPRING LOADED MOP HANDLE GRIPS. BP 20 GA. TYPE 304 STAINLESS STEEL BACKSPLASH ON TWO SIDES.

FAUCET SHALL BE: CHICAGO FAUCETS MODEL 445-VBRRCF

FD:
ZURN MODEL # ZN415H NL-P FLOOR DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND "TYPE H" POLISHED NICKEL BRONZE, "TYPE BZ" POLISHED NICKEL BRONZE STRAINER WITH FLASHING CLAMP DEVICE FOR CLAMPING AT THE FINISHED FLOOR LEVEL. NEO-LOC 3" OUTLET.

FCO:
FLOOR CLEAN-OUTS SHALL BE NICKEL BRONZE EQUAL TO ZURN ZN-1400-SZ SUITED TO FLOOR FINISH AS APPROVED.

WCO:
WALL CLEAN-OUTS SHALL BE NICKEL BRONZE EQUAL TO ZURN ZN-1446, WITH POLISHED CHROME WALL COVER, MATCH PIPE SIZE.

HYD (EXTERIOR ROOF APPLICATIONS):
WOODFORD MODEL RHY2-MS FREEZELESS ROOF HYDRANT, AUTOMATIC DRAIN DOWN, BACKFLOW PROTECTED, CAST IRON HYDRANT SUPPORT, CAST IRON UNDER DECK FLANGE, ¾" HOSE CONNECTION, VENT FOR DRAINAGE, 1" INLET CONNECTION, AND ¼" DRAIN PORT. INSTALL USING CONTRACTOR FURNISHED STRUCTURAL ANGLE FRAMING TO UNDER-DECK SUPPORT FLANGE.

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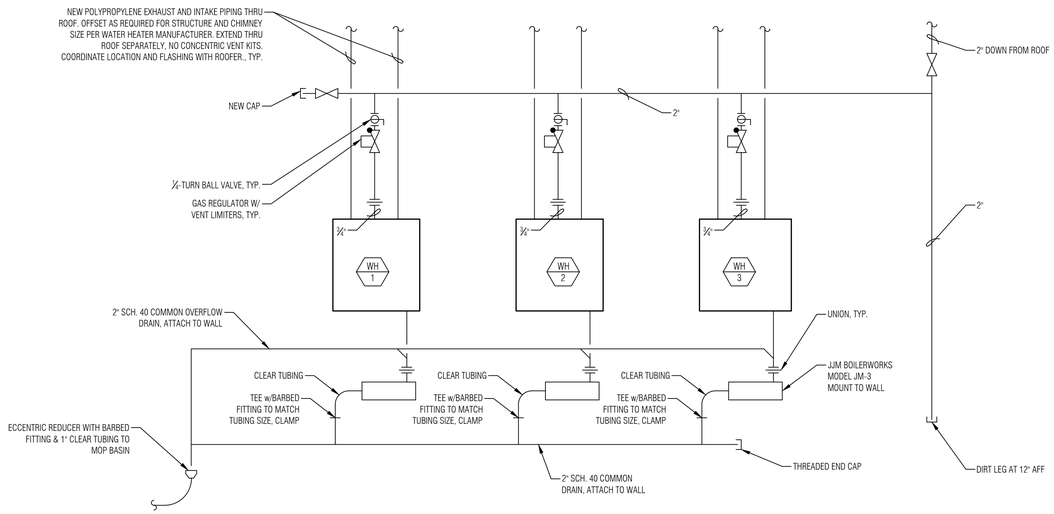
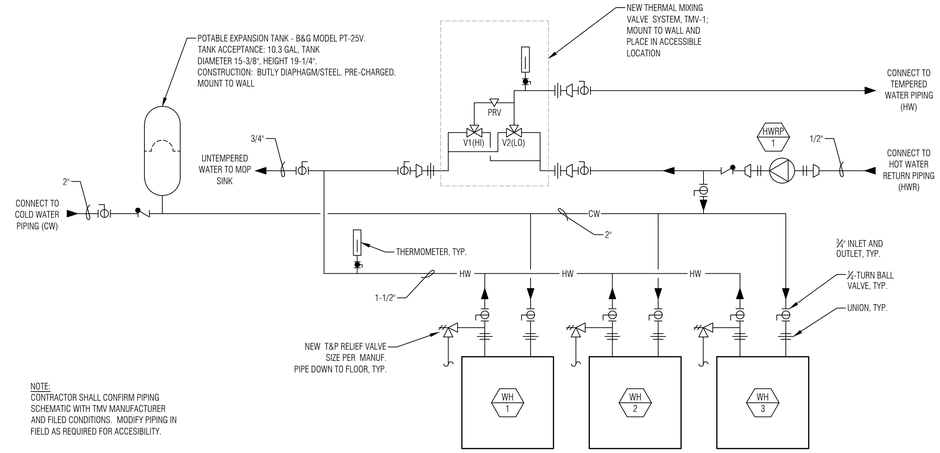
SHEET NO.
P6.1
PLUMBING SCHEDULES



WATER HEATER GAS PIPING, CONDESATE AND VENTING SCHEMATIC

NOT TO SCALE



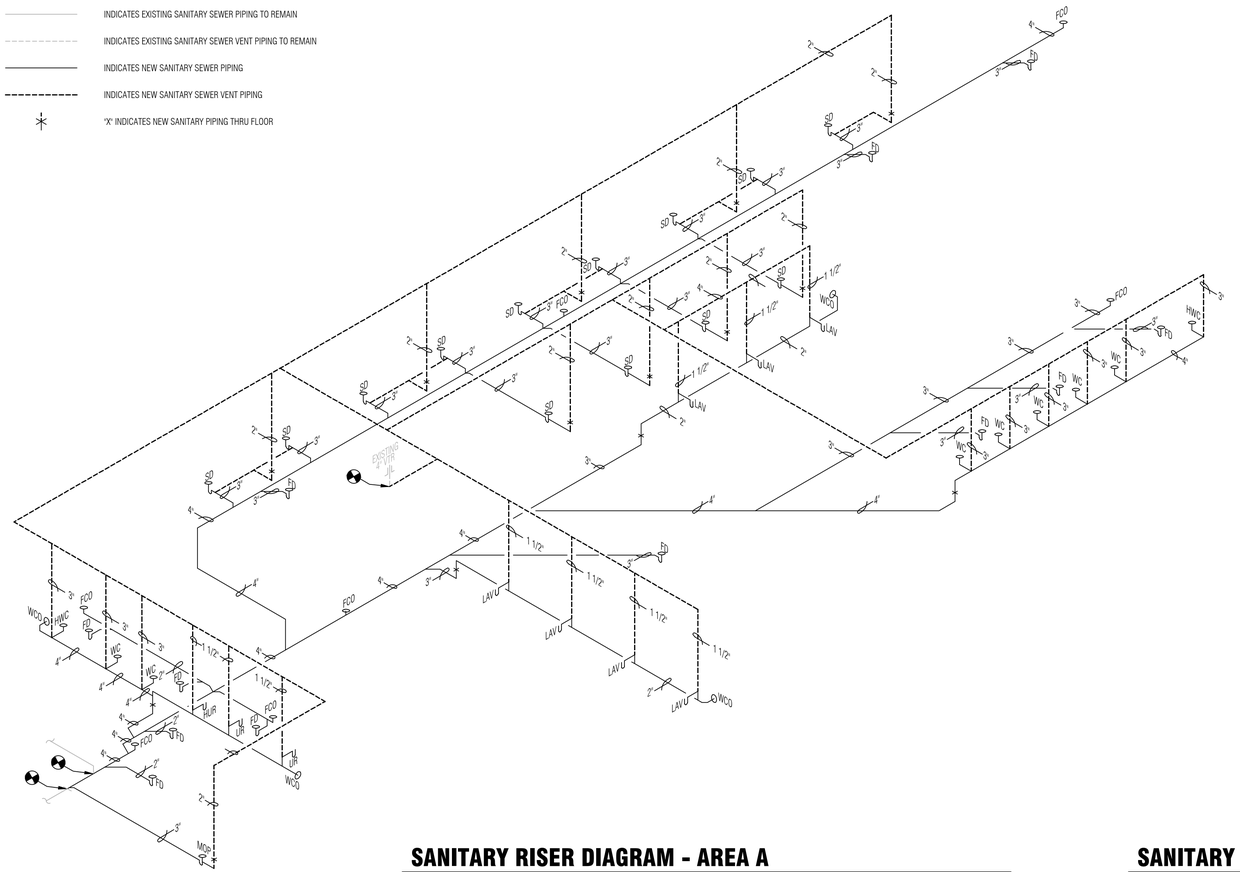
NOTE:
CONTRACTOR SHALL CONFIRM PIPING SCHEMATIC WITH TMV MANUFACTURER AND FILED CONDITIONS. MODIFY PIPING IN FIELD AS REQUIRED FOR ACCESIBILITY.

DOMESTIC WATER HEATER PIPING SCHEMATIC

NOT TO SCALE

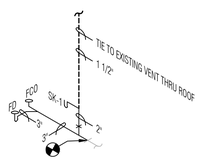
SANITARY RISER LEGEND:

- INDICATES EXISTING SANITARY SEWER PIPING TO REMAIN
- INDICATES EXISTING SANITARY SEWER VENT PIPING TO REMAIN
- INDICATES NEW SANITARY SEWER PIPING
- INDICATES NEW SANITARY SEWER VENT PIPING
- "X" INDICATES NEW SANITARY PIPING THRU FLOOR



SANITARY RISER DIAGRAM - AREA A

NOT TO SCALE

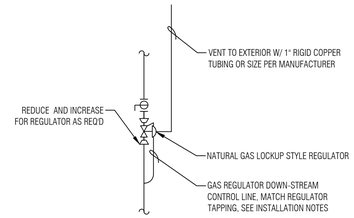


SANITARY RISER DIAGRAM - AREA B

NOT TO SCALE

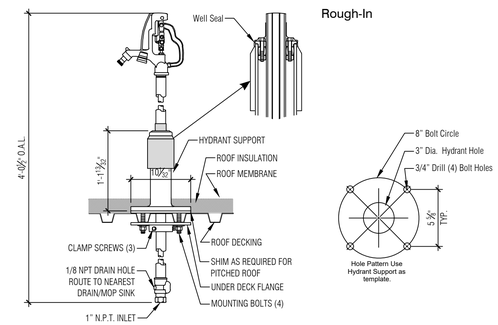
GAS REGULATOR DOWN-STREAM CONTROL LINE INSTALLATION:

- CONTROL LINE MATERIAL SHALL BE RUN IN RIGID TYPE L COPPER. ALL ELBOWS SHALL BE LONG SWEEPING BENDS. NO COMPRESSION FITTING ELBOWS OR TURNS.
- CONTROL LINE SHALL BE AS SHORT AND DIRECT AS POSSIBLE MINIMIZING BENDS AND ELBOWS.
- CONTROL LINE MUST BE INSTALLED ON THE TOP OR SIDE OF THE DOWNSTREAM PIPE. NEVER INSTALL IN THE BOTTOM AS DIRT AND DEBRIS MAY COVER OR PLUG THE CONTROL LINE.
- THE CONTROL LINE MUST BE INSTALLED IN THE MAJOR DIAMETER OF THE DOWNSTREAM PIPE.
- PENETRATION INTO THE PIPE MUST BE A DEDICATED TAP. NO TEES TO SHARE WITH A PRESSURE GAUGE.
- PENETRATION INTO THE LINE SHALL BE THROUGH A THREAD-O-LET OR A SADDLED WELD-O-LET.
- THERE MUST BE 8 TO 10 STRAIGHT DIAMETERS BEFORE THE TAP AND 3 TO 5 STRAIGHT PIPE DIAMETERS AFTER THE TAP BEFORE ANY ELBOWS, TEES, OR OTHER FITTINGS.
- TYPICALLY, WHEN A DOWNSTREAM CONTROL LINE IS USED THE REGULATOR IS A SMALLER LINE SIZE THAN THE LINE IT IS INSTALLED INTO. PIPE REDUCTION SHALL BE DONE AS CLOSE TO THE REGULATOR INLET AS POSSIBLE. ON THE OUTLET SIDE OF THE REGULATOR THE INCREASE TO LINE SIZE MUST BE DONE AS CLOSE TO THE REGULATOR OUT CONNECTION. DO NOT RUN A LENGTH OF REGULATOR LINE SIZE PIPE DOWNSTREAM AFTER THE REGULATOR. AGAIN, INCREASE THE PIPE DIAMETER AS CLOSE TO THE REGULATOR OUT LET AS POSSIBLE.



GAS REGULATOR AND VENT SCHEMATIC

SCALE: NONE



ROOF HYDRANT DETAIL

SCALE: NONE

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SHEET NO.
P7.1
PLUMBING DETAILS

TEMPERATURE CONTROL LEGEND

- TE — TEMPERATURE ELEMENT (DUCT MOUNTED)
- DA — DAMPER ACTUATOR
- M — DIRTY FILTER PRESSURE SWITCH
- VFD — VARIABLE FREQUENCY DRIVE
- CSR — CURRENT SENSING RELAY
- TLL — LOW LIMIT SAFETY THERMOSTAT
- FS — FLOW SWITCH
- TE — TEMPERATURE SENSOR WITH AVERAGING ELEMENT
- STE — SPACE TEMPERATURE ELEMENT
- R — 120 VOLT RELAY
- SP — STATIC PRESSURE SENSOR HL - HIGH LIMIT LL - LOW LIMIT
- STR — MOTOR STARTER
- TS — TEMPERATURE SENSOR
- PE — PRESSURE/ELECTRIC TRANSDUCER
- SD — SMOKE DETECTOR (BY E.C.) CONTROL WIRING BY T.C.C.
- DPT — DIFFERENTIAL PRESSURE TRANSMITTER
- FA — FIRE ALARM
- HE — HUMIDITY ELEMENT
- HL — HUMIDITY HIGH LIMIT SENSOR
- VP — VELOCITY/PRESSURE SENSOR
- LPS — LOW PRESSURE STEAM
- CWS — CHILLED WATER SUPPLY
- CWR — CHILLED WATER RETURN
- AC — ALARM CONTACT
- TS — TEMPERATURE SENSOR WITH THERMOWELL
- CO — CARBON MONOXIDE SENSOR
- CO2 — CARBONDIOXIDE SENSOR

CONTRACTOR SHALL INCLUDE ALL COMMON AND GROUNDING CONDUCTORS, NOT INDICATED ON DIAGRAMS

DUCTWORK LEGEND:

- _/_ — RECTANGULAR DUCT SIZE: "DUCT WIDTH" X "DUCT DEPTH" (INCHES)
- _'Ø — ROUND DUCT SIZE: DIAMETER (INCHES)
- _/_Ø — FLAT OVAL DUCT SIZE : "DUCT WIDTH" X "DUCT DEPTH" (INCHES)
- GRILLE/REGISTER/DIFFUSER TAG
  - X — SUPPLY OR RETURN #
  - X — # OF CFM's
- FLEXIBLE DUCTWORK
- T — WALL SENSOR / T-STAT (58" AFF CENTERLINE)
- NEW SUPPLY DUCTWORK, GRILLES, AND/OR DIFFUSERS
- SUPPLY DUCTWORK, GRILLES, AND/OR DIFFUSERS TO BE REMOVED
- EXISTING SUPPLY DUCTWORK, GRILLES, AND/OR DIFFUSERS TO REMAIN
- NEW RETURN OR TRANSFER DUCTWORK, GRILLES, AND/OR DIFFUSERS
- RETURN OR TRANSFER DUCTWORK, GRILLES, AND/OR DIFFUSERS TO BE REMOVED
- EXISTING RETURN OR TRANSFER DUCTWORK, GRILLES, AND/OR DIFFUSERS TO REMAIN
- NEW EXHAUST DUCTWORK, GRILLES, AND/OR DIFFUSERS
- EXHAUST DUCTWORK, GRILLES, AND/OR DIFFUSERS TO BE REMOVED
- EXISTING EXHAUST DUCTWORK, GRILLES, AND/OR DIFFUSERS TO REMAIN
- M — MOTORIZED DAMPER
- MANUAL DAMPER (SEE TYPICAL DETAILS FOR OTHER REQUIRED DAMPERS)
- AD — DUCT ACCESS DOOR
- FD — FIRE DAMPER INCLUDING DUCT ACCESS DOOR
- FSD — FIRE SMOKE DAMPER INCLUDING DUCT ACCESS DOOR

HYDRONICS LEGEND:

- HWS — NEW HEATING WATER SUPPLY
- HWS — DEMO HEATING WATER SUPPLY
- HWS — EXISTING HEATING WATER SUPPLY
- HWR — NEW HEATING WATER RETURN
- HWR — DEMO HEATING WATER RETURN
- HWR — EXISTING HEATING WATER RETURN
- BALL VALVE (FULL PORT)
- GATE VALVE
- T — NEW SPACE SENSOR TEMPERATURE AND/OR HUMIDITY
- ELBOW - UP
- ELBOW - DOWN
- REDUCER
- UNION
- CAP
- T&P RELIEF VALVE
- TIE IN CONNECTION
- TWIN TEE
- BUTTERFLY VALVE
- CHECK VALVE

REFRIGERANT PIPING DESIGN:

REFRIGERATION PIPING DESIGN RESPONSIBILITY: DESIGN OF THE NEW REFRIGERATION PIPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND EQUIPMENT MANUFACTURER, JOINTLY. CONTRACT DRAWINGS AND SPECIFICATION SECTION 23 23 00 REFRIGERATION PIPING AND SPECIALTIES PROVIDE BASE REQUIREMENTS. ALL PIPING ROUTING, SIZES, FITTINGS, OFFSETS, TRAPS AND SPECIALTIES SHALL BE DESIGNED AND SUBMITTED TO ENGINEER FOR APPROVAL. SUBMITTAL DRAWINGS AND PRODUCT DATA SHEETS SHALL BEAR THE APPROVAL SIGNATURE OF THE HVAC EQUIPMENT MANUFACTURER'S AUTHORIZED SALES AGENT.

GENERAL PROJECT NOTES:

1. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR ALL WORK RELATED TO THEIR TRADE ON ALL CONSTRUCTION DRAWINGS.
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK - ANY DISCREPANCIES SHALL CONFORM TO ACTUAL EXISTING CONDITIONS UPON APPROVAL OF OWNER - REPORT ANY DISCREPANCIES TO OWNER PRIOR TO THE CONTINUATION OF WORK.
3. WHERE A KEYNOTE IS INDICATING WORK TO BE PERFORMED, THE KEYNOTE IS INTENDED TO BE TYPICAL FOR ALL LOCATIONS. PERFORM WORK AT ALL LOCATIONS WHERE OCCURS AS REQUIRED TO COMPLETE WORK UNLESS OTHERWISE INDICATED.
4. BUILDING WILL REMAIN IN USE BY OWNER THROUGHOUT CONSTRUCTION. COORDINATE ALL DEMOLITION AND CONSTRUCTION ACTIVITIES WITH OWNER. PROVIDE 72 HOUR NOTICE TO OWNER PRIOR TO DISCONNECTING UTILITIES OR CAUSING SHUTDOWNS THAT AFFECT PORTIONS OF THE BUILDING OUTSIDE THE CONSTRUCTION AREAS.

HVAC GENERAL REQUIREMENTS:

DRAWINGS FOR THE WORK ARE DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF THE WORK AND TO INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION AND AS OTHER WORK WILL PERMIT. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS NECESSARY DUCT AND PIPE OFFSETS, PIPE FITTINGS, ACCESS PANELS AND SLEEVES MAY NOT BE SHOWN. CONTRACT DOCUMENTS SHOW DESIGN BASIS EQUIPMENT. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING AND SUBMITTING FOR A/E APPROVAL EQUIPMENT OF EQUAL QUALITY, CAPACITY, PERFORMANCE, EFFICIENCY, WEIGHT, PHYSICAL SIZE AND CONFIGURATION TO FIT IN THE SPACE PROVIDED FOR THE DESIGN BASIS EQUIPMENT. IF EQUIPMENT OTHER THAN DESIGN BASIS IS SELECTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NECESSARY DESIGN MODIFICATIONS AND FOR COORDINATION WITH OTHER TRADES TO MEET ALL INTENDED REQUIREMENTS OF THE ORIGINAL DESIGN DOCUMENTS. THE LOCATION AND THE SIZES OF EQUIPMENT, DUCT AND PIPE FITTINGS, ACCESS PANELS, SLEEVES, INSERTS, AND OTHER BASIC ITEMS REQUIRED BY CODE OR OTHER SECTIONS SHALL BE COORDINATED AND INCLUDED FOR THE PROPER INSTALLATION OF THE WORK. INSTALL WORK IN A MANNER TO CONFORM TO STRUCTURE, AVOID OBSTRUCTION, ALLOW ACCESS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR, WITHOUT FURTHER INSTRUCTIONS OR COST.

SEISMIC RESTRAINT BASIC REQUIREMENTS:

1. ALL PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE SEISMICALLY RESTRAINED TO MEET INDIANA BUILDING CODE AND REFERENCED ASCE 07.
2. SEISMIC DESIGN CATEGORGY= C
3. ALL COMPONENTS CRITICAL TO THE CONTINUED OPERATION SHALL BE RESTRAINED.
4. ANY NATURAL GAS APPLIANCE AND ALL NATURAL GAS PIPING SHALL BE CONSIDERED TO HAVE AN IMPORTANCE FACTOR (Ip) OF 1.5.

HVAC DRAWING GENERAL NOTES

1. ALL NOTES ON THIS SHEET APPLY TO ALL DRAWINGS.
2. CONTRACTOR SHALL FIELD VERIFY CONDITIONS AT ALL POINTS OF CONNECTION PRIOR TO INSTALLATION.
3. ALL PIPING SHOWN ON DRAWINGS IS DIAGRAMMATIC. NOT ALL FITTINGS ARE INDICATED. OFFSETS SHALL BE PROVIDED AS REQUIRED.
4. COORDINATE DUCT, EQUIPMENT AND PIPING LAYOUT WITH GENERAL CONSTRUCTION, PLUMBING, ELECTRICAL, LIGHTING AND OTHER SPECIALTIES TO AVOID CONFLICTS.
5. ROUTE DUCTWORK AS SHOWN ON PLAN WHILE FIELD VERIFYING ROUTING AND CLEARANCES. PREFABRICATE AS MUCH DUCT AS POSSIBLE. ALLOW FOR FIELD TRIM AND ADJUSTMENTS. COORDINATE ANY CONFLICTS WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
6. ROUTE ALL DUCTWORK AS TIGHT AS POSSIBLE TO BOTTOM OF STRUCTURE AND HIGH BETWEEN STRUCTURE. COORDINATE WITH OTHER TRADES TO MAINTAIN CEILING HEIGHTS.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING REGULATIONS, CODES, AND STANDARDS.
   - 7.1. INDIANA BUILDING CODE
   - 7.2. INDIANA MECHANICAL CODE
   - 7.3. INDIANA PLUMBING CODE
   - 7.4. SMACNA HVAC DUCT CONSTRUCTION STANDARDS
   - 7.5. OSHA
8. CONTRACTOR SHALL BE RESPONSIBLE TO FIRESTOP WORK AT ALL FIRE-RATED WALL OR FLOOR PENETRATIONS.
9. CONTRACTOR SHALL FIELD VERIFY CONDITIONS AT ALL POINTS OF CONNECTION PRIOR TO INSTALLATION.
10. SUPPORT PIPING AND DUCTWORK ONLY FROM STRUCTURE. PIPING AND DUCTWORK SHALL NOT BE SUPPORTED FROM ROOF DECK.
11. GRILLE, REGISTER, AND DIFFUSER CONNECTIONS SHALL MATCH NECK SIZE. INSTALL TRANSITIONS TO ACCOMMODATE. TAPS FOR DIFFUSERS DIRECTLY BELOW MAINS ARE NOT INDICATED FOR CLARITY. TAP SHALL MATCH NECK SIZE.
12. INSTALL ALL DUCT MOUNTED SENSORS FURNISHED BY BUILDING MANAGEMENT SYSTEM AND/OR FIRE ALARM SUPPLIER.
13. EQUIPMENT DUTWORK CONNECTIONS SHALL INCLUDE ALL TRANSITIONS BETWEEN INDICATED DUCTWORK SIZES AND EQUIPMENT CONNECTION SIZES. TRANSITIONS SHALL BE CONSTRUCTED FOR MINIMUM PRACTICAL PRESSURE LOSSES.
14. ALL DUCTWORK SHALL BE INSTALLED WITH RADIUS ELBOWS AND PER TYPICAL DETAILS ON THIS DRAWING UNLESS INDICATED OTHERWISE.
15. EQUIPMENT WITH ROTATING PARTS SHALL BE CONNECTED TO SYSTEM WITH FLEXIBLE CONNECTORS RATED FOR APPLICATION.

CHEMICAL TREATMENT OF CLOSED LOOPS:

1. CONTRACTOR SHALL SUBCONTRACT CHEMICAL WATER TREATMENT OF ALL HEATING WATER AND CHILLED WATER SYSTEMS. SYSTEM TO DELTA WATER MANAGEMENT GROUP OF BROWNSBURG, IN. TELEPHONE 317-852-8966. NO SUBSTITUTIONS.
3. DELTA WATER MANAGEMENT GROUP SHALL MEET ALL BOILER AND CHILLER MANUFACTURER RECOMMENDATIONS AND REQUIREMENTS FOR WATER TREATMENT.
4. DELTA WATER MANAGEMENT GROUP SHALL INCLUDE THE FOLLOWING AS PART OF THE SCOPE OF THIS PROJECT:
   - 4.1. COST OF ALL CHEMICALS FOR TREATMENT
   - 4.2. CHEMICAL ADDITION AS REQUIRED FOR INITIAL STARTUP
   - 4.3. ALL CHEMICAL & MATERIAL AS REQUIRED FOR COMPLETE CHEMICAL
   - 4.4. SERVICING OF STEAM HEATING SYSTEM FOR A PERIOD OF 1 YEAR
   - 4.5. OWNER TRAINING FOR CHEMICAL ADDITION AS REQUESTED BY OWNER FOR THIS 1 YEAR PERIOD COMMENCING AT DATE OF SUBSTANTIAL COMPLETION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF STARTUP DATES WITH DELTA WATER AND OWNER.

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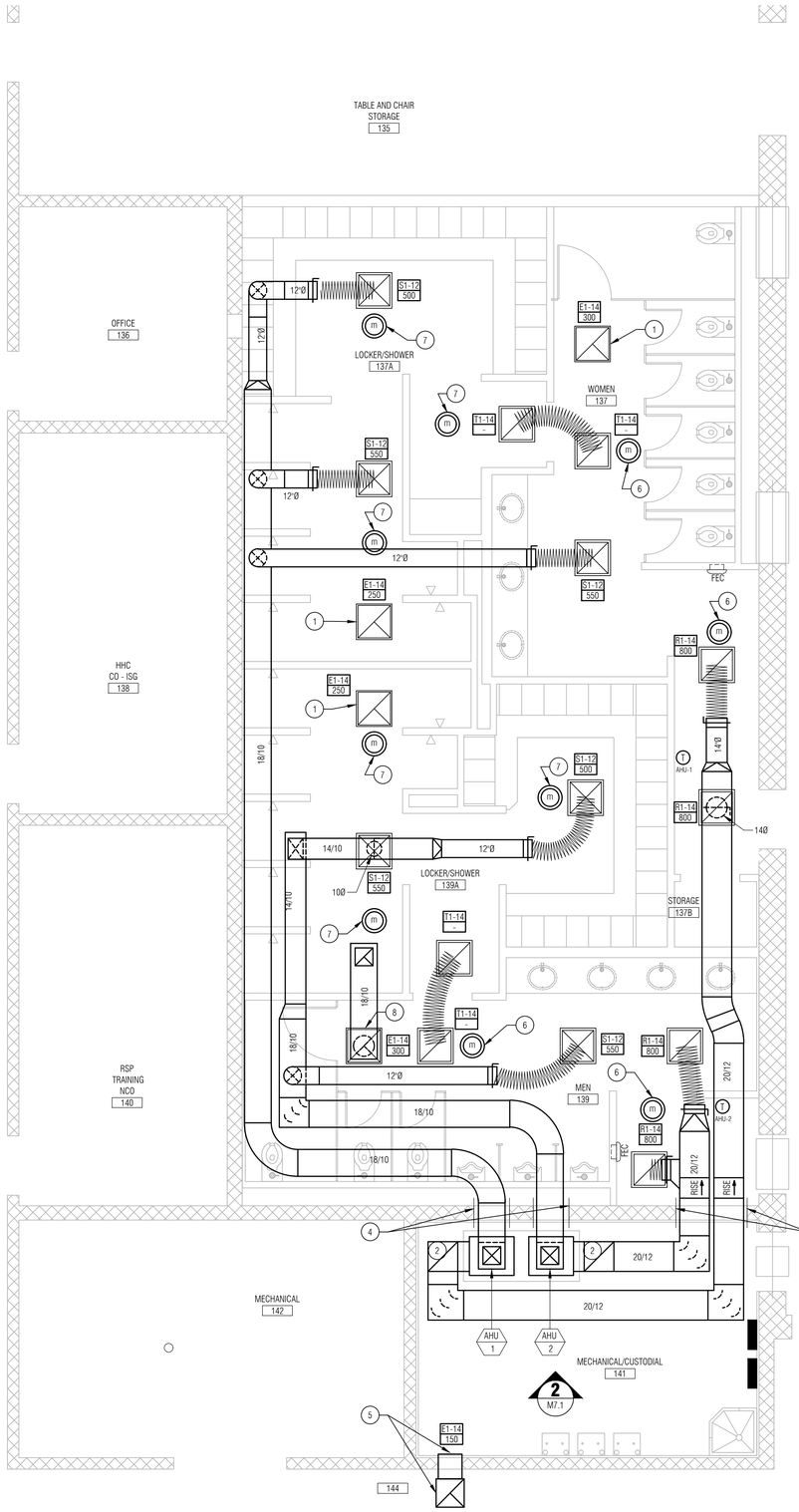
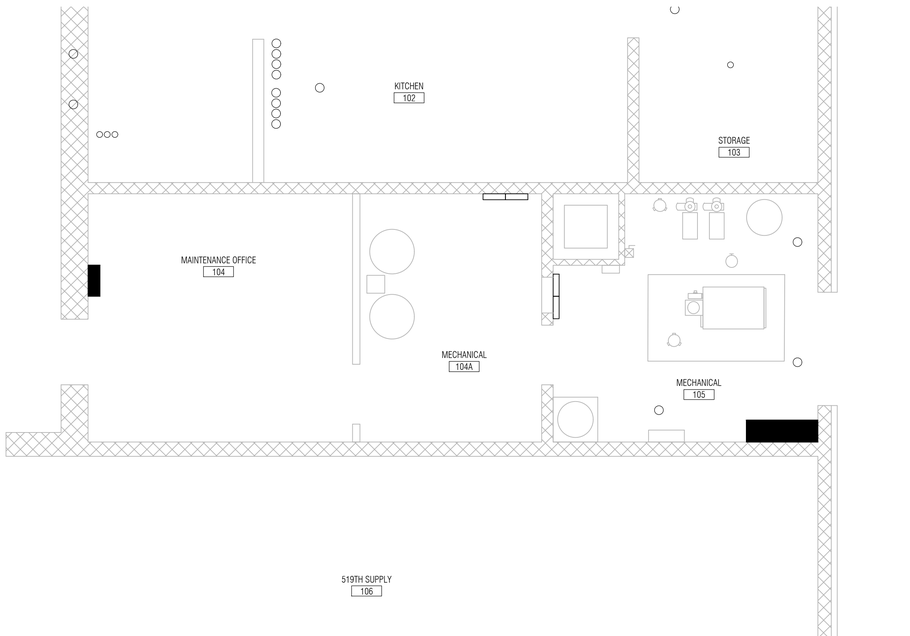
MECHANICAL GENERAL INFORMATION



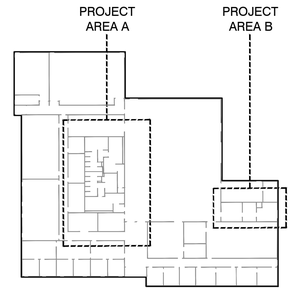
PLAN N **HVAC AIR DISTRUBUTION PLAN - AREA A**

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



PLAN N **HVAC AIR DISTRIBUTION PLAN - AREA B**

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



PLAN N **KEY PLAN**

NOT TO SCALE

KEYNOTES:

BASE BID

1. NEW 12"x12" DUCT UP TO ROOFTOP EXHAUST FAN, MAKE TRANSITION AT DIFFUSER NECK.
2. NEW 20"x20" UP TO OUTSIDE AIR 1 (OA-1) AND 20"x20" DOWN TO AHU RETURN. SEE DRAWING M7.1 FOR ADDITIONAL DETAILS.
3. NEW 48x16 MASONRY OPENING IN WALL WITH NEW DUCT SLEEVE.
4. NEW 24x16 MASONRY OPENING IN WALL WITH NEW DUCT SLEEVE.
5. NEW DUCTWORK FOR NEW EXHAUST FAN. NEW 16x8 MASONRY OPENING IN WALL. BOTTOM OF DUCT IS AT 24" BELOW DECK.
6. LIGHTING OCCUPANCY SENSORS (COMBINED SIGNAL) SHALL HAVE OUTPUT CONNECTED TO HVAC CONTROLLER FOR EXHAUST FAN CONTROL (EF-1 & EF-4) AND OAI & RA DAMPER POSITION 1 (AHU-1 & AHU-2). MINIMUM OCCUPIED EXHAUST AND INTAKE.
7. LIGHTING OCCUPANCY SENSORS (COMBINED SIGNAL) SHALL HAVE OUTPUT CONNECTED TO HVAC CONTROLLER FOR EXHAUST FAN CONTROL (EF-2 & EF-3) AND OAI & RA DAMPER POSITION 2 (AHU-1 & AHU-2). MAXIMUM OCCUPIED EXHAUST AND INTAKE.
8. NEW 18"x10" DUCT WITH 12"x12" UP TO ROOFTOP EXHAUST FAN, MAKE TRANSITION AT DIFFUSER NECK.

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M2.1

HVAC AIR DISTRIBUTION PLAN

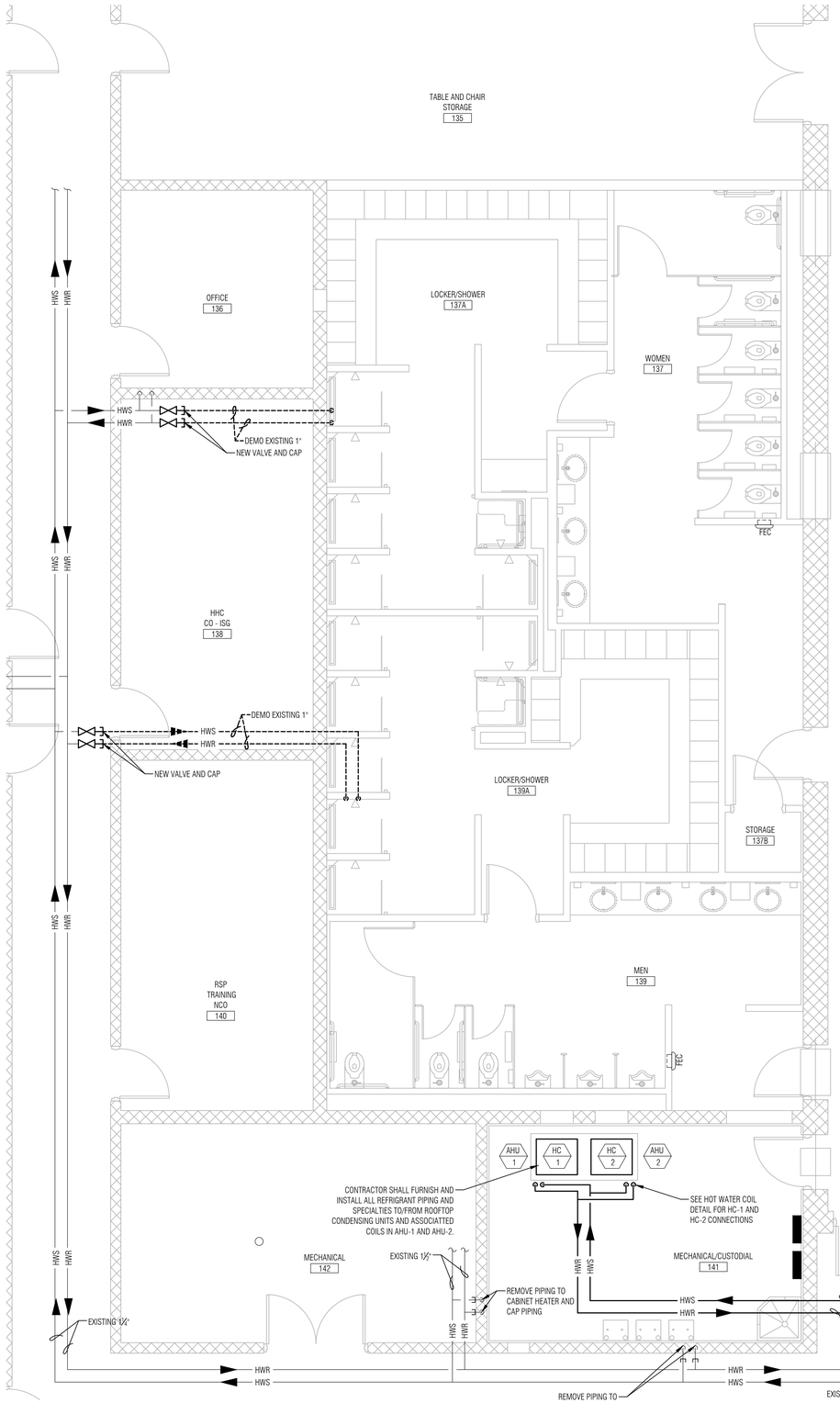
PRELIMINARY HVAC TEST AND BALANCE:

1. PRIOR TO ANY PIPING DEMOLITION MECHANICAL CONTRACTOR SHALL TEST AND RECORD HEATING WATER FLOW AT ALL EXISTING HYDRONIC UNITS, CENTRAL PUMPS AND BOILER. AFTER ALL NEW WORK IS COMPLETED MECHANICAL CONTRACTOR SHALL RE-TEST AND BALANCE ALL FLOWS TO MATCH EXISTING RECORDED NUMBERS.
2. FURNISH REPORT(S) TO ENGINEER PRIOR TO ANY DEMOLITION.

REFRIGERANT PIPING DESIGN:

REFRIGERATION PIPING DESIGN RESPONSIBILITY: DESIGN OF THE NEW REFRIGERATION PIPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND EQUIPMENT MANUFACTURER, JOINTLY. CONTRACT DRAWINGS AND SPECIFICATION SECTION 23 23 00 REFRIGERATION PIPING AND SPECIALTIES PROVIDE BASE REQUIREMENTS. ALL PIPING ROUTING, SIZES, FITTINGS, OFFSETS, TRAPS AND SPECIALTIES SHALL BE DESIGNED AND SUBMITTED TO ENGINEER FOR APPROVAL. SUBMITTAL DRAWINGS AND PRODUCT DATA SHEETS SHALL BEAR THE APPROVAL SIGNATURE OF THE HVAC EQUIPMENT MANUFACTURER'S AUTHORIZED SALES AGENT.

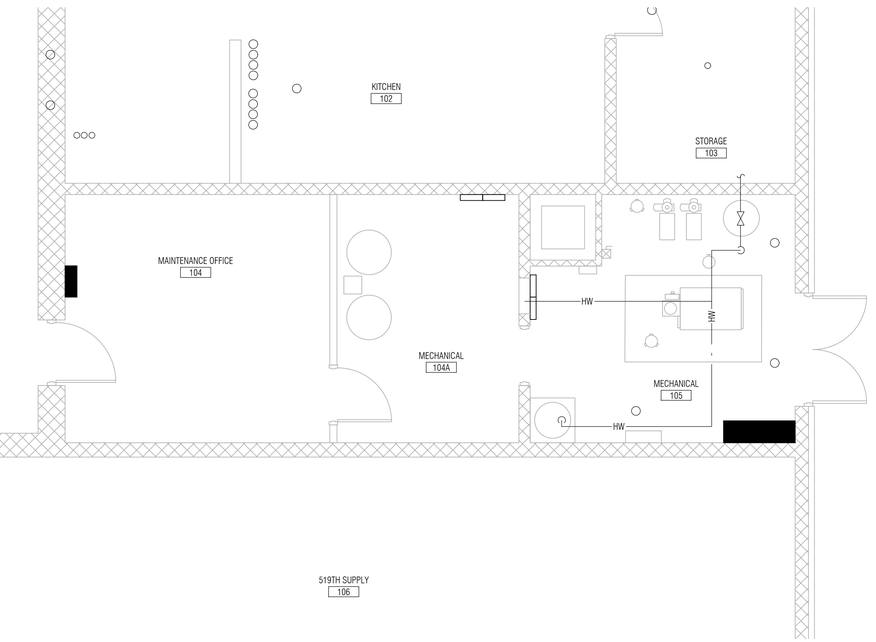
EACH COILS PIPING SHALL INCLUDE A NEW FILTER/DRIER. NEW FILTER DRIER SHALL BE REMOVABLE CARTRIDGE STYLE EQUAL TO DANFOSS.



PLAN N **HVAC PIPING AND EQUIPMENT PLAN - AREA A**

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

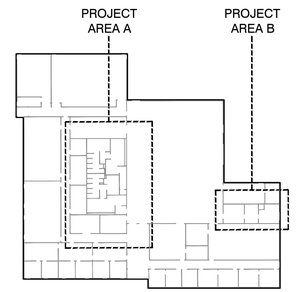
0 1 2 4 8



PLAN N **HVAC PIPING AND EQUIPMENT PLAN - AREA B**

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

0 1 2 4 8



PLAN N **KEY PLAN**

NOT TO SCALE

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HVAC PIPING AND EQUIPMENT PLAN

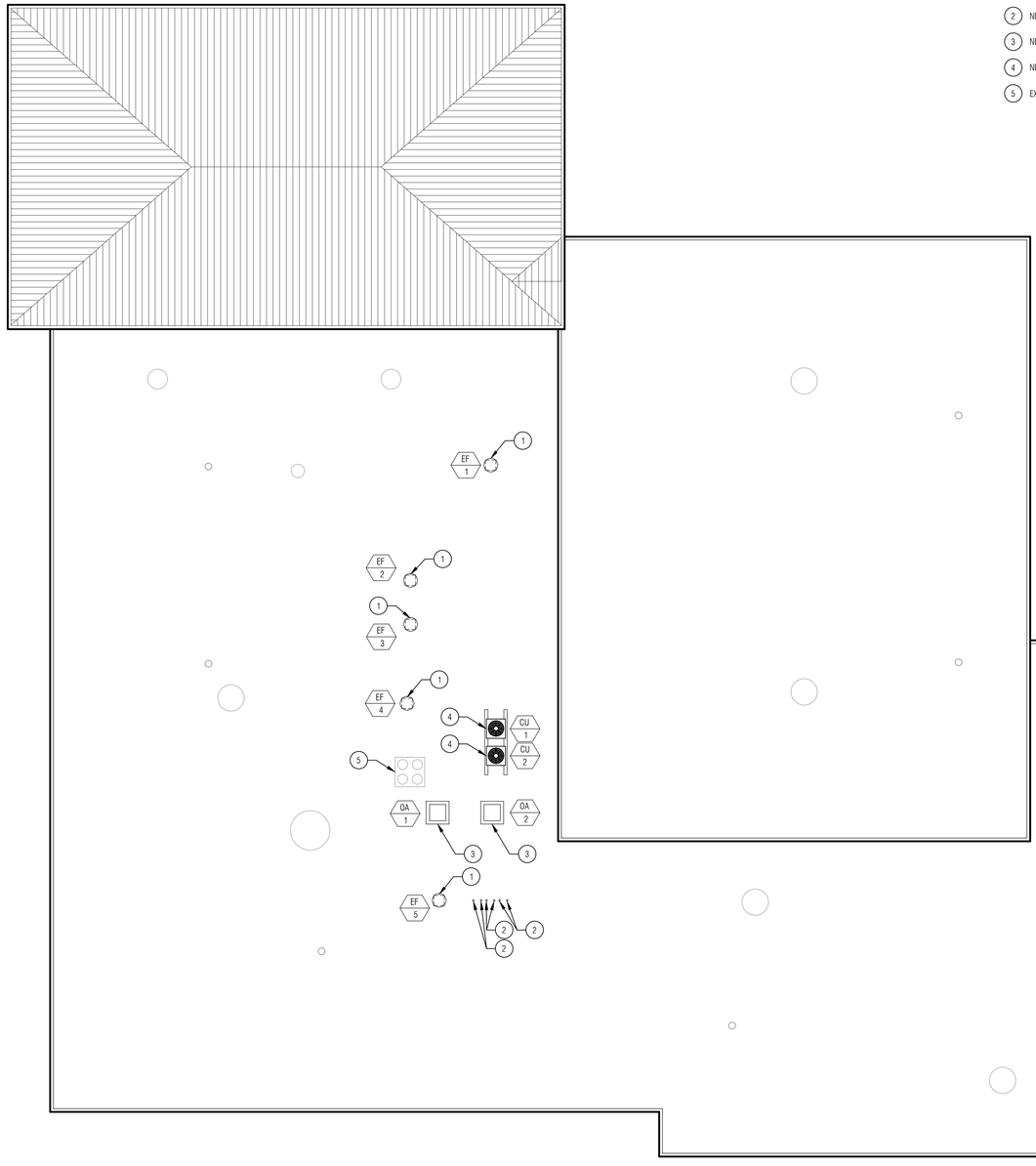
GENERAL NOTES:

1. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR ALL WORK RELATED TO THEIR TRADE ON ALL CONSTRUCTION DRAWINGS.
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK - ANY DISCREPANCIES SHALL CONFORM TO ACTUAL EXISTING CONDITIONS UPON APPROVAL OF OWNER - REPORT ANY DISCREPANCIES TO OWNER PRIOR TO THE CONTINUATION OF WORK.
3. WHERE A KEYNOTE IS INDICATING WORK TO BE PERFORMED, THE KEYNOTE IS INTENDED TO BE TYPICAL FOR ALL LOCATIONS. PERFORM WORK AT ALL LOCATIONS WHERE OCCURS AS REQUIRED TO COMPLETE WORK UNLESS OTHERWISE INDICATED.

KEYNOTES:

BASE BID

1. NEW EXHAUST FAN, SEE M6.1 & M7.1 FOR ADDITIONAL DETAILS.
2. NEW VENT FROM WATER HEATER.
3. NEW AIR INTAKE, SEE M6.1 & M7.1 FOR ADDITIONAL DETAILS.
4. NEW CONDENSING UNIT, SEE M6.1 & M7.1 FOR ADDITIONAL DETAILS.
5. EXISTING CONDENSING UNIT TO REMAIN.



PLAN N

MECHANICAL ROOF PLAN

SCALE: 3/32"=1'-0"

0 2' 5' 10' 20'

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HVAC ROOF EQUIPMENT PLAN

DUCT HEATING COIL SCHEDULE

HC X

TAG	MANUFACTURER	NOMINAL SIZE (HxL)	FINS PER INCH	ROWS	AIRFLOW (CFM)	HEATING CAPACITY (MBH)	EAT (F)	LAT (F)	HW FLOW (GPM)	HW PD (FT WG)	EWT (F)	LWT (F)	COIL APD (in wg)
HC-1	RAE CORPORATION	12x18	10	3	1600	61.942	55	90	6.28	5.00	140	120	0.76
HC-2	RAE CORPORATION	12x18	10	3	1600	61.942	55	90	6.28	5.00	140	120	0.76

GENERAL NOTES:
1. ALL COILS SHALL INCLUDE 2-WAY MODULATING CONTROL VALVE

OUTDOOR INTAKE SCHEDULE

OA X

TAG NO.	TYPE/LOCATION	MANUFACTURER	MODEL	THROAT SIZE (WxLxH)	# OF LOUVERS	THROAT AREA	CFM	SP (IN W.G.)	NOTES
OA-1	GRAVITY INTAKE/ROOF	GREENHECK	WIH-36x36	22x22x12.25	3	3.36	1,600	0.041	1, 2
OA-2	GRAVITY INTAKE/ROOF	GREENHECK	WIH-36x36	22x22x12.25	3	3.36	1,600	0.041	1, 2

NOTES:

1. FURNISH PARALLEL BLADE AUTOMATIC DAMPER, 24-VOLT DAMPER ACTUATOR, END SWITCH, BIRDSCREEN, AND HINGED ACCESS, BY MANUFACTURER SPECIFIC TO UNIT.
2. FURNISH WITH INSULATED (R4.3) ROOF CURB,18-INCH HEIGHT, 18 GA GALVANIZED STEEL, BY MANUFACTURER SPECIFIC TO UNIT.

EXHAUST FAN SCHEDULE

EF X

TAG NO.	TYPE/LOCATION	MANUFACTURER	MODEL	CFM	SP (IN W.G.)	HP	ELECTRICAL V/PH/HZ	NOTES
EF-1	DOWNBLAST/ROOF	GREENHECK	G-098-VG	300	0.5	1/4	120/1/60	1, 2
EF-2	DOWNBLAST/ROOF	GREENHECK	G-098-VG	250	0.5	1/4	120/1/60	1, 2
EF-3	DOWNBLAST/ROOF	GREENHECK	G-098-VG	250	0.5	1/4	120/1/60	1, 2
EF-4	DOWNBLAST/ROOF	GREENHECK	G-098-VG	300	0.7	1/4	120/1/60	1, 2
EF-5	DOWNBLAST/ROOF	GREENHECK	G-098-VG	150	0.5	1/4	120/1/60	1, 2

NOTES:

1. FURNISH EXHAUST FAN WITH PREMIUM EFFICIENCY MOTOR AND ADJUSTABLE SPEED CONTROL REMOTE DIAL (FOR BALANCING). FURNISH WITH BACKDRAFT DAMPER, MOTOR COVER, SUSPENSION SYSTEM WITH NEOPRENE ISOLATORS, WIRING PIGTAIL, AND ELECTRICAL SAFETY DISCONNECT.
2. INCLUDE 16-INCH INSULATED ROOF CURB.

CONDENSING UNIT SCHEDULE

CU X

TAG	MANUF.	MODEL	TONS, NOMINAL	RERIGERANT	SEER2 @ ARI CONDITIONS	NO. OF STAGES	NO. OF CIRCUITS	OUTDOOR AMBIENT AIR TEMP (F)	VOLTAGE (V/Ph)	MCA	MOCP
CU-1	CARRIER	24TPA760W003	5	R410A	13.8	2	1	95	208/1	33.2	50
CU-2	CARRIER	24TPA760W003	5	R410A	13.8	2	1	95	208/1	33.2	50

GENERAL NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL VIBRATION ISOLATION PAD FOR EACH CONDENSING UNIT. VIBRATION ISOLATION PAD SHALL BE AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
2. CONTRACTOR SHALL FURNISH AND INSTALL NEW EQUIPMENT RAILS AS REQUIRED FOR SUPPORTING NEW CONDENSING UNITS. ANY PENETRATIONS IN ROOF RAILS SHALL BE SEALED BY ROOFING CONTRACTOR.

DIFFUSER, GRILLE and REGISTER SCHEDULE

XX-XX XXX

TAG NO.	SERVICE	MOUNTING LOCATION	NECK SIZE	BLOW PATTERN	MANUFACTURER	MODEL #, DESCRIPTION	FINISH	REMARKS
S1-12	SUPPLY	LAY-IN CEILING	12"Ø	4-WAY	TITUS	OMNI 24X24, BORDER TYPE 2	A	
R1-14	RETURN	LAY-IN CEILING	14"Ø	N/A	TITUS	OMNI 24X24, BORDER TYPE 2	A	
T1-14	TRANSFER	LAY-IN CEILING	14"Ø	N/A	TITUS	OMNI 24X24, BORDER TYPE 2	A	1, 2
E-14	EXHAUST	LAY-IN CEILING	14"Ø	N/A	TITUS	OMNI 24X24, BORDER TYPE 2	A	
E	EXHAUST	WALL	16x8	N/A	TITUS	-	A	

GENERAL NOTES:

1. FURNISH ALL GRILLES, REGISTERS AND DIFFUSERS WITH ALL HARDWARE, MOUNTINGS, ETC. FOR A COMPLETE AND AESTHETICALLY PLEASING INSTALLATION.
2. MC SHALL PAINT ALL VISIBLE DUCTWORK BEHIND GRILLES AND DIFFUSERS BLACK.
3. AIM DIFFUSERS AT TIME OF TESTING, ADJUSTING AND BALANCING. AIM AS INDICATED ON THE PLAN AND AS DIRECTED BY ENGINEER AND OWNER.

FINISH LEGEND:

A. FACTORY APPLIED, #26 FINISH (WHITE)
B. SPECIAL COLOR (AS SELECTED) TO MATCH SURROUNDING PAINT (UNDER SPECIFICATION SECTION 09900). BY GC'S PAINTING CONTRACTOR
C. CUSTOM COLOR AS SELECTED.
D. ANODIZED FINISH AS SELECTED.

REMARKS:

1. INTEGRAL DAMPER
2. EXTEND DUCTWORK TO ACCOMMODATE INSULATION WRAP. FABRICATE GRILLE CONNECTION FLANGE IN DUCTWORK.
3. SEE DRAWINGS FOR CONTINUOUS LINEAR BAR RETURN LENGTH AND LOCATION. INSTALL BLANKS AT STUD LOCATIONS AND FOR DUCT BRANCHES. MC SHALL COORDINATE ALL OPENING SIZES ON SHOP DRAWINGS.
4. FURNISH AND INSTALL 1X4 FIRE RETARDANT TREATED WOOD BLOCKING ANCHORED TO CMU, METAL DECK, OR METAL STUDS AT OPENINGS AS ATTACHMENT FOR BORDER SCREWS.
5. TWO FACEPLATES ARE WELDED TO WALL SLEEVE. WALL SLEEVE IS GROUTED INTO MASONRY WALL.
6. COORDINATE WITH FAN COIL UNIT OUTLET SIZE AND COUNTERTOP AND CASEWORK MANUFACTURER
7. PROVIDE A SECURE FIRE-RATED TRANSFER GRILLE ASSEMBLY
   - A CONTRACTOR-FURNISHED 3/16" THICKNESS STEEL SLEEVE, FULLY WELDED CORNERS, WITH TWO WELDED STEEL STUDS PER SIDE FOR GROUTING INTO NEW MASONRY WALL. INCLUDE WALL FLANGE FOR ANCHORING GRILLES.
   - TITUS SG-BG-FM SECURITY BARS FIELD WELDED TO NEW MASONRY WALL SLEEVE.
   - TITUS 33RL HD GRILLE ON EACH SIDE OF TRANSFER GRILL. FACE FASTEN TO SLEEVE FLANGE.
   - ASSEMBLY SHALL BE COORDINATED WITH NEW FIRE DAMPER (RUSKIN 1BDT2 THINLINE FIRE DAMPER). BARS SHALL BE PLACED TO PERMIT MAINTENANCE AND REPLACEMENT FROM STORAGE ROOM SIDE.

AIR HANDLING UNIT SCHEDULE

AHU X

	GENERAL					SUPPLY FAN				DX COOLING						ELECTRICAL			
TAG	MANUF.	MODEL	MODULES / ACCESSORIES DESCRIPTION	UNIT DIMENSIONS (L X W X H)	UNIT WEIGHT, WET (LBS)	AIRFLOW (CFM)	EXT. SP (IN WG)	FAN MOTOR HP	DESIGN OA (CFM)	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	EAT DB/WB (Deg F)	LAT DB/WB (Deg F)	COIL	SERVED BY CONDENISNG UNIT(S)	VOLT/ PHASE	MCA	MOCP	FUSED DISC.
AHU-1	CARRIER	39S SIZE 05 VERTICAL	1" MICROMAT INSULATION, DIRECT EXPANSION (DX) COIL, TXV & NOZZLE, 2-INCH FILTER TRACK	2'-6"x2'-2"x5'-0"	360	1600	1.00	0.75	550	62.72	31.55	80.50/72.90	62.24/62.04	SM SINE WAVE 4/10/QR	CU-1	208/3	4.4	15	YES
AHU-2	CARRIER	39S SIZE 05 VERTICAL	1" MICROMAT INSULATION, DIRECT EXPANSION (DX) COIL, TXV & NOZZLE, 2-INCH FILTER TRACK	2'-6"x2'-2"x5'-0"	360	1600	1.00	0.75	550	62.72	31.55	80.50/72.90	62.24/62.04	SM SINE WAVE 4/10/QR	CU-1	208/3	4.4	15	YES

GENERAL NOTES:

1. ALL AHU'S SHALL BE READY FOR AIRSIDE ECONOMIZER OPERATION
2. DRAIN PANS SHALL BE 304 STAINLESS STEEL
3. DX COILS SHALL HAVE FACTORY-INSTALLED TXV'S
4. ALL MOTORS SHALL BE PREMIUM EFFICIENCY, INVERTER RATED
5. EACH AIR HANDLING UNIT SHALL INCLUDE A CONTROL DAMPER AT BOTH THE RETURN AIR INLET AND THE OUTDOOR AIR INLET.

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TERRE HAUTE RC FEMALE LATRINE EXPANSION
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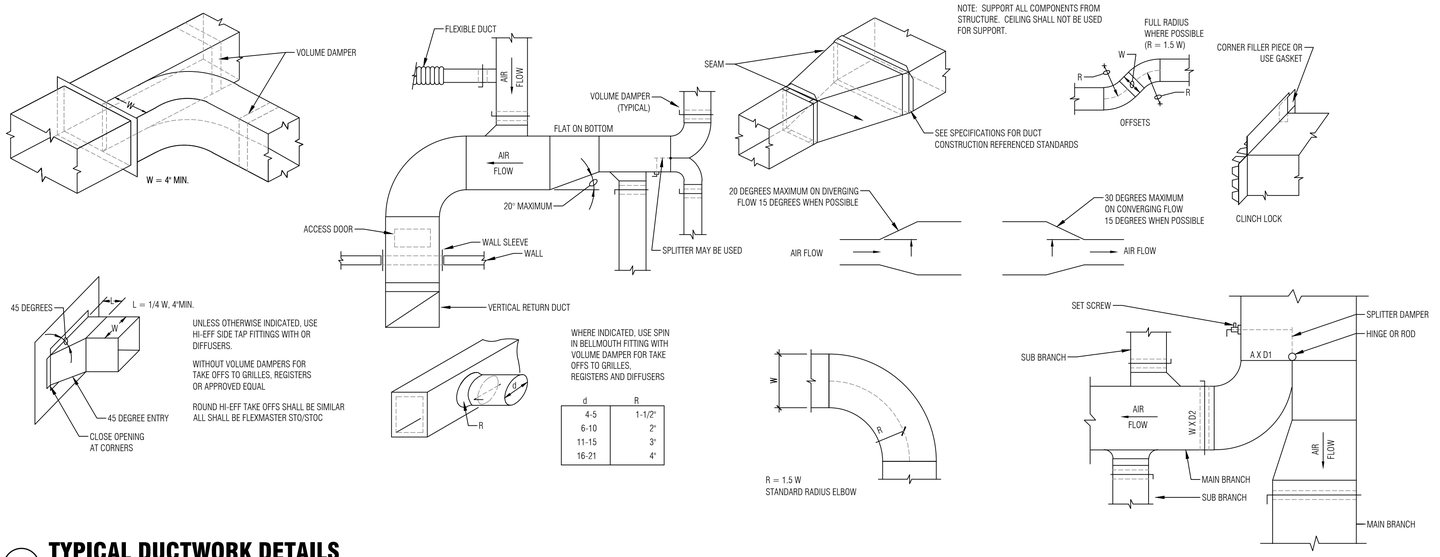
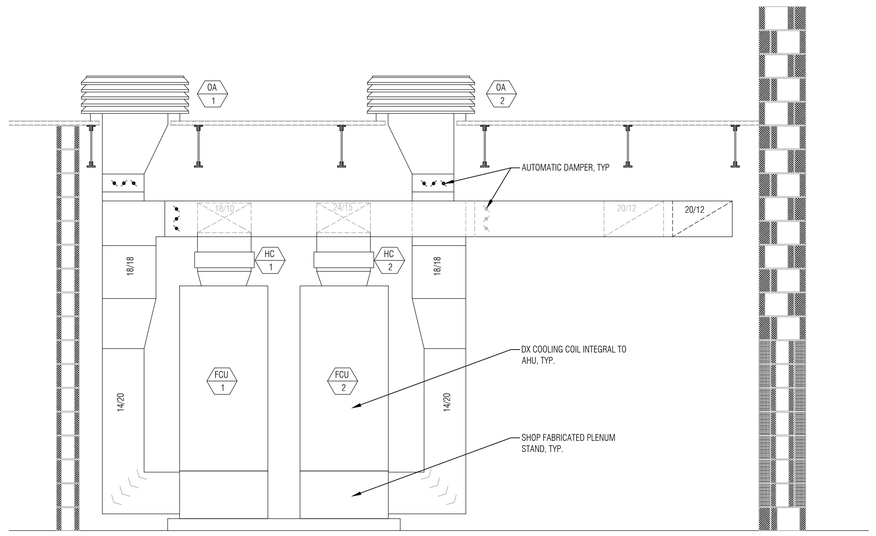
HVAC EQUIPMENT SCHEDULE AND DETAILS



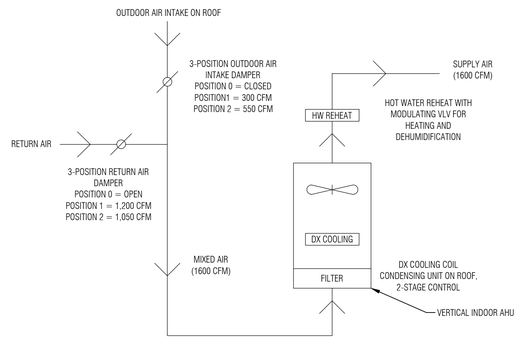
1 TYPICAL DUCTWORK DETAILS

NOT TO SCALE



2 AIR HANDLING UNITS ELEVATION

NOT TO SCALE



3 AHU 1 AND 2 SYSTEM SCHEMATIC

NOT TO SCALE

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HVAC DETAILS

AHU-1 AND AHU-2 CONSTANT COLUME AIR HANDLING UNITS

POINT DESCRIPTION	ANALOG			DISCRETE		MULTI-STATE	ALARMS			REMARKS
	IN	OUT	VALUE	IN	OUT	OUT	STATE	HIGH	LOW	
SPACE TEMPERATURE	●									
SPACE RH	●									
SUPPLY AIR TEMPERATURE	●									1
MIXED AIR TEMPERATURE	●									
TOILET AREA OCC SENSOR				●						2
SHWR AREA OCC SENSOR				●						2
TOILET AREA EF ENABLE		●								
SHWR AREA EF ENABLE		●								
DX STAGE 1 ENABLE/DISABLE		●								
DX STAGE 2 ENABLE/DISABLE		●								
HEATING COIL VALVE		●								
RETURN & OA AIR DAMPERS		●								3
SUPPLY FAN START/STOP				●						

REMARKS:
1. LOCATE DOWNSTREAM OF HW REHEAT COIL
2. COORDINATE WITH LIGHTING COLNTROLS
3. LINK RETURN AIR AND OA DAMPERS FOR MIXED AIR CONTROL.

SEQUENCE OF OPERATION FOR AHU-1 & AHU-2

GENERAL: ALL SETPOINTS SHALL BE ON DISTECH CONTROLLER AND NOT ON SPACE SENSOR.

OCCUPIED MODE:

1. SPACE SHALL BE CONSIDERED OCCUPIED ANYTIME TOILET OR SHOWER OCCUPANCY SENSORS ARE IN OCCUPIED STATE
2. FAN CONTROL
   - 2.1. SUPPLY FAN SHALL BE NORMALLY OFF
   - 2.2. SUPPLY FAN SHALL ENABLE UPON CALL FOR HEATING, COOLING, OR DEHUMIDIFICATION.
3. COOLING/HEATING CONTROL
   - 3.1. SPACE TEMP>SPACE TEMP SETPOINT (COOLING MODE)
     - 3.1.1. CONTROLLER SHALL ENABLE DX COOLING 1
     - 3.1.2. CONTROLLER SHALL ENABLE DX COOLING 2 IF ZONE TEMP IS GREATER THAN 3 DEGREES FAHRENHEIT FROM SETPOINT FOR MORE THAN 5 MINUTES (SET ON DISTECH CONTROLLER)
   - 3.2. SPACE TEMP<SPACE TEMP SETPOINT (HEATING MODE)
     - 3.2.1. CONTROLLER SHALL MODULATE HW DUCT COIL CONTROL VALVE TO MAINTAIN SPACE TEMP WITHIN +/-2 DEGREES FAHRENHEIT OF SPACE TEMP SETPOINT
4. DEHUMIDIFICATION CONTROL (DEHUM MODE)
   - 4.1. SPACE RH SETPOINT SHALL BE AT 50%RH
   - 4.2. SPACE RH>SPACE RH SETPOINT
     - 4.2.1. CONTROLLER SHALL ENABLE DX COOLING 1
     - 4.2.2. CONTROLLER SHALL MODULATE HW REHEAT COIL TO MAINTAIN SPACE TEMPERATURE AS REQUIRED
     - 4.2.3. CONTROLLER SHALL EXIT DEHUM MODE WHEN SPACE RH REACHES 5% BELOW SPACE RH SETPOINT
5. VENTILATION CONTROL
   - 5.1. TOILET AREA OCCUPIED MODE (OCCUPIED STATE)
     - 5.1.1. EF-1/EF-4 SHALL BE ENABLED
     - 5.1.2. OAD DAMPER SHALL BE SET TO OPEN TO MATCH EXHAUST RATE WHENEVER TOILET OCCUPANCY SENSOR IS IN OCCUPIED STATE
   - 5.2. SHOWER AREA OCCUPIED MODE (OCCUPIED STATE)
     - 5.2.1. EF-2/EF-3 SHALL BE ENABLED
     - 5.2.2. OAD DAMPER SHALL BE SET TO TO MATCH EXHAUST RATE WHENEVER TOILET OCCUPANCY SENSOR IS IN OCCUPIED STATE
   - 5.3. TOILET AND SHOWER AREAS OCCUPIED MODE (OCCUPIED STATE)
     - 5.3.1. EF-1/EF-4 AND EF-2/EF-3 SHALL BE ENABLED
     - 5.3.2. OAD DAMPER SHALL BE SET TO TO MATCH EXHAUST RATE WHENEVER BOTH AREA OCCUPANCY SENSOR IS IN OCCUPIED STATE

UNOCCUPIED MODE:

1. SPACE SHALL BE CONSIDERED UNOCCUPIED ANYTIME TOILET AREA OR SHOWER AREA OCCUPANCY SENSORS ARE NOT IN OCCUPIED STATE
2. FAN CONTROL
   - 2.2. CONTROLLER SHALL BE NORMALLY OFF
   - 2.3. SUPPLY FAN SHALL ENABLE UPON CALL FOR HEATING, COOLING, OR DEHUMIDIFICATION
3. COOLING AND HEATING CONTROLS
   - 3.1. SPACE TEMP>SPACE TEMP SETPOINT (COOLING MODE)
     - 3.1.1. CONTROLLER SHALL ENABLE DX COOLING 1
     - 3.1.2. CONTROLLER SHALL ENABLE DX COOLING 2 IF ZONE TEMP IS GREATER THAN 3 DEGREES FAHRENHEIT FROM SETPOINT FOR MORE THAN 5 MINUTES
   - 3.2. SPACE TEMP<SPACE TEMP SETPOINT (HEATING MODE)
     - 3.2.1. CONTROLLER SHALL MODULATE HW DUCT COIL CONTROL VALVE TO MAINTAIN SPACE TEMP WITHIN +/-2 DEGREES FAHRENHEIT OF SPACE TEMP SETPOINT
   - 3.3. DEHUMIDIFICATION CONTROL (DEHUM MODE)
     - 3.3.1. SPACE RH SETPOINT SHALL BE AT 50%RH
     - 3.3.2. SPACE RH>SPACE RH SETPOINT
       - 3.3.2.1. CONTROLLER SHALL ENABLE DX COOLING 1
       - 3.3.2.2. CONTROLLER SHALL MODULATE HW REHEAT COIL TO MAINTAIN SPACE TEMPERATURE AS REQUIRED
       - 3.3.2.3. CONTROLLER SHALL EXIT DEHUM MODE WHEN SPACE RH REACHES 5% BELOW SPACE RH SETPOINT
4. VENTILATION CONTROL
   - 4.1. DAMPER SHALL BE NORMALLY CLOSED
   - 4.2. EF-1/EF-4 SHALL BE NORMALLY OFF
   - 4.3. EF-2/EF-3 SHALL BE NORMALLY OFF

FREEZE PROTECTION:

IF ANY 12 INCHES OF THE MIXED AIR TEMPERATURE SENSING ELEMENT IS BELOW SET POINT OF 35F (ADJ.), THEN A TIMED RESET SHALL OCCUR WHERE SUPPLY FAN SHALL STOP AND THE OUTSIDE AIR DAMPERS SHALL CLOSE. IF THREE TIMED RESETS OCCUR WITHIN 110% CUMULATIVE RESET TIMEOUT PERIODS , THEN MANUAL RESET (HARD WIRED INTERLOCK) SHALL OCCUR WHERE SUPPLY FAN SHALL STOP AND THE OUTSIDE AIR DAMPERS SHALL CLOSE .

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HVAC CONTROLS

GENERAL PROJECT NOTES:

1. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR ALL WORK RELATED TO THEIR TRADE ON ALL CONSTRUCTION DRAWINGS.
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK - ANY DISCREPANCIES SHALL CONFORM TO ACTUAL EXISTING CONDITIONS UPON APPROVAL OF OWNER - REPORT ANY DISCREPANCIES TO OWNER PRIOR TO THE CONTINUIATION OF WORK.
3. WHERE A KEYNOTE IS INDICATING WORK TO BE PERFORMED, THE KEYNOTE IS INTENDED TO BE TYPICAL FOR ALL LOCATIONS. PERFORM WORK AT ALL LOCATIONS WHERE OCCURS AS REQUIRED TO COMPLETE WORK UNLESS OTHERWISE INDICATED.
4. BUILDING WILL REMAIN IN USE BY OWNER THROUGHOUT CONSTRUCTION. COORDINATE ALL DEMOLITION AND CONSTRUCTION ACTIVITIES WITH OWNER. PROVIDE 72 HOUR NOTICE TO OWNER PRIOR TO DISCONNECTING UTILITIES OR CAUSING SHUTDOWNS THAT AFFECT PORTIONS OF THE BUILDING OUTSIDE THE CONSTRUCTION AREAS.

ELECTRICAL WORK GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING NUMBER AND TYPES OF CONDUCTORS WITHIN CONDUITS AND HOMERUNS.
2. ALL CONDUCTORS SHALL BE COPPER.
3. UNLESS OTHERWISE SHOWN, ALL BRANCH CIRCUIT WIRING IS NOT LESS THAN ¾" CONDUIT CONTAINING 2#12 CONDUCTORS. (PLUS #12 GROUNDING CONDUCTOR THAT SHALL BE IN ALL BRANCH CIRCUITS REGARDLESS OF INDICATION). SEE SPECIFICATIONS FOR SPECIFIC GROUNDING REQUIREMENTS.
4. COORDINATE ALL VARIABLE FREQUENCY DRIVES, MAGNETIC STARTERS AND FUSED DISCONNECTS W/CONTRACTOR SUPPLYING MOTORIZED EQUIPMENT. WHERE ANOTHER CONTRACTOR IS SUPPLYING THE VARIABLE FREQUENCY DRIVES, MAGNETIC STARTERS AND/OR FUSED DISCONNECTS THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ASSOCIATED LINE VOLTAGE WIRING.
5. SEE MECHANICAL PLANS, SCHEDULES, AND SPECIFICATIONS FOR MECHANICAL EQUIPMENT INFORMATION.
6. CIRCUITS INDICATED AS BRANCH CIRCUITS WITH MULTIPLE MOTORS SHALL BE SIZED PER NEC 430-22
7. NO SHARED NEUTRALS WILL BE ALLOWED (EXCEPTION: EMERGENCY FIXTURES & BALLASTS PER DETAIL).
8. WHERE ELEVATIONS OF ELECTRICAL OUTLETS ARE SHOWN ON DRAWINGS, THEY ARE GIVEN AS AN AID TO THE CONTRACTOR FOR BIDDING AND ROUGH-IN. COORDINATE FINAL EXACT LOCATION OF ALL OUTLETS WITH ARCHITECTURAL PLANS, ELEVATIONS & CONSTRUCTION DETAILS.
9. ALL EMPTY CONDUIT SHALL CONTAIN A PULL CORD. ALL EMPTY CONDUIT STUBBED INTO ACCESSIBLE CEILINGS SHALL BE TERMINATED ABOVE CEILING WITH A PLASTIC BUSHING.
10. SLEEVE ALL FLOOR AND WALL PENETRATIONS AS SPECIFIED.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE ARCHITECT/ENGINEER WITH AS-BUILT DRAWING INDICATING EMPTY CONDUITS. LABEL ALL EMPTY CONDUITS USING NOTATIONS INDICATED ON AS-BUILT.
12. ALL CEILINGS SHALL BE CONSIDERED PLENUM CEILINGS AND SHALL USE PLENUM-RATED CONDUCTORS OR CONDUCTORS WITHIN CONDUIT TO ACCOMMODATE REQUIREMENTS.

LEGEND:

P-1 * — HOME RUN TO PANELBOARD AND CIRCUIT AS NOTED. (CONDUCTORS REQ'D) *** INDICATES THAT MULTIPLE HOMERUNS ARE ON THE SAME CIRCUIT

XX — DUPLEX RECEPTACLE, 16" TO BOTTOM U.O.N. (XX = HEIGHT A.F.F. TO THE BOTTOM OF THE RECEPTACLE)

G — GFCI PROTECTED DUPLEX RECEPTACLE - PROTECT ALL DEVICES IN CIRCUIT

208 VOLT RECEPTACLE

X — INDICATES DATA IN A SINGLE GANG BOX U.O.N. WITH PLATE (X INDICATES THE NUMBER OF DATA PORTS IF MORE THAN 1) - 16" TO BOTTOM U.O.N., 1" CONDUIT, LONG SWEEP ELBOW AND PLASTIC BUSHING. EXTEND CONDUIT TO NEAREST CEILING CAVITY. PULL CAT-6 CABLES (ONE FOR EACH PORT) TO DATA RACK IN DATA IN IS/IT ROOM.

ZA / TV — CATV - PASS AND SEYMOUR MODEL TV3WTVSS THREE GANG RECESSED TV BOX WITH FULL TVSS & LOW VOLTAGE CONNECTOR KIT, 1½" CONDUIT TO CEILING CAVITY (INSTALL AT HEIGHT AS DIRECTED OWNER/ENGINEER). FURNISH AND INSTALL COAXIAL CABLING FROM TV BOX TO IS/IT ROOM. WHERE DATA PORTS ARE INCIATED EC SHALL FURNISH AND INSTALL CAT 6 CABLING.

WAP — INDICATES LOCATION OF OWNER'S WIRELESS NETWORK ACCESS POINT. CONTRACTOR SHALL FURNISH AND INSTALL DATA CABLING HOME RUN, SINGLE GANG BOX AND DATA RECEPTACLE MOUNTED TO STRUCTURE ABOVE CEILING. INCLUDE ADDITIONAL 15' COILED LENGTH OF CAT 6A CABLE FOR THE OWNER'S EQUIPMENT INSTALLATION

ELECTRIC MOTOR - FURNISHED BY OTHER TRADES, CONNECTED BY ELECTRICAL CONTRACTOR. EC SHALL FURNISH DISCONNECT, FUSED DISCONNECT, OR COMBINATION STARTER FOR EACH MOTOR AS INDICATED OR REQUIRED.

$ — SWITCH

$ DIM — DIMMING SWITCH, EC SHALL COORDINATE SWITCH TYPE AND CABLING WITH LIGHT FIXTURE (LUMINAIRE) SUPPLIER.

$ 3 — THREE-WAY SWITCH

[$] — LOW VOLTAGE WALL STATION

[$] DIM — LOW VOLTAGE WALL STATION WITH DIMMING

$ P — SWITCH WITH PILOT LIGHT

$ m — SWITCH WITH OCCUPANCY SENSOR

CEILING MOUNTED MOTION SENSOR ("O"=OCCUPANCY /"V"=VACANCY)
(FURNISH AND INSTALL POWER FIXTURES AS REQUIRED)

NOTE: ALL WALL SWITCHES ARE TO BE LOCATED 48" A.F.F. TO TOP OF SWITCH UNLESS NOTED OTHERWISE.

EXIT FIXTURE AS SPECIFIED,
SHADED AREA REPRESENTS FACE OF SIGN. ARROWS INDICATE DIRECTIONAL ARROWS ON FIXTURES.

P-6 — PANEL-CIRCUIT
D — INDICATES FIXTURE TYPE
a — INDICATES SWITCH DESIGNATION

$ a — SWITCH CONTROLLING FIXTURES, LAMPS, OR BALLASTS w/SAME DESIGNATION

HATCHING WITHIN FIXTURE INDICATES THAT FIXTURE SHALL BE FED FROM AN "EMERGENCY" BRANCH CIRCUIT

NL — INDICATES NIGHT LIGHTING , UNSWITCHED

NOTES:
1. SWITCH DESIGNATIONS ARE ONLY GIVEN WHERE MULTIPLE SWITCHES OPERATE LIGHT FIXTURES IN A SINGLE SPACE. OTHERWISE THE NEAREST SWITCH, OCCUPANCY SENSOR, OR GROUP OF OCCUPANCY SENSORS SHALL OPERATE THE FIXTURES IN THE SPACE OR AREA. IF SWITCHING IS UNCLEAR, VERIFY WITH ENGINEER PRIOR TO COMMENCING WORK.
2. SEE OCCUPANCY SENSOR DIAGRAMS FOR CONNECTIONS IN SPACES ASSOCIATED WITH OCCUPANCY SENSORS.

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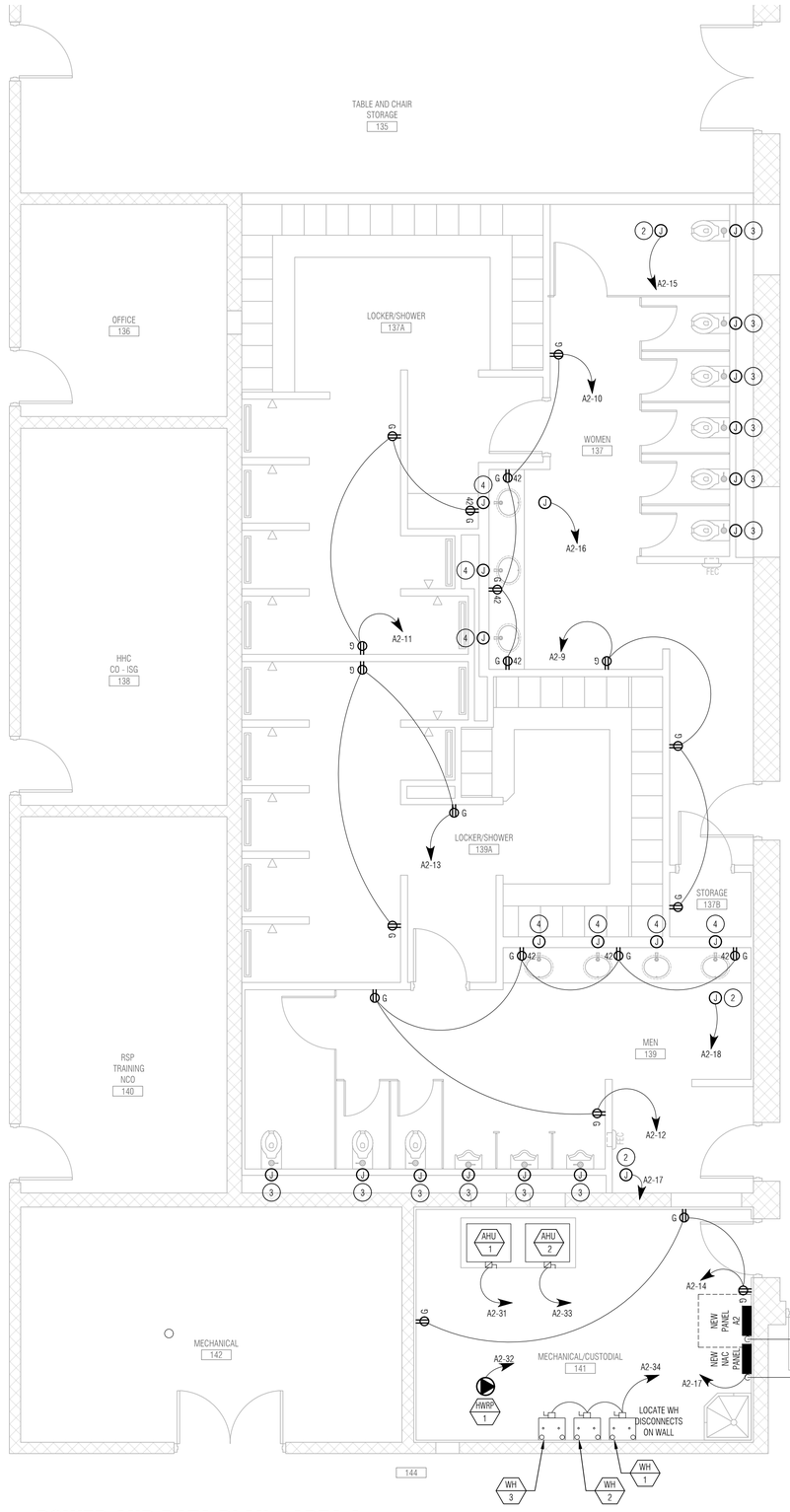
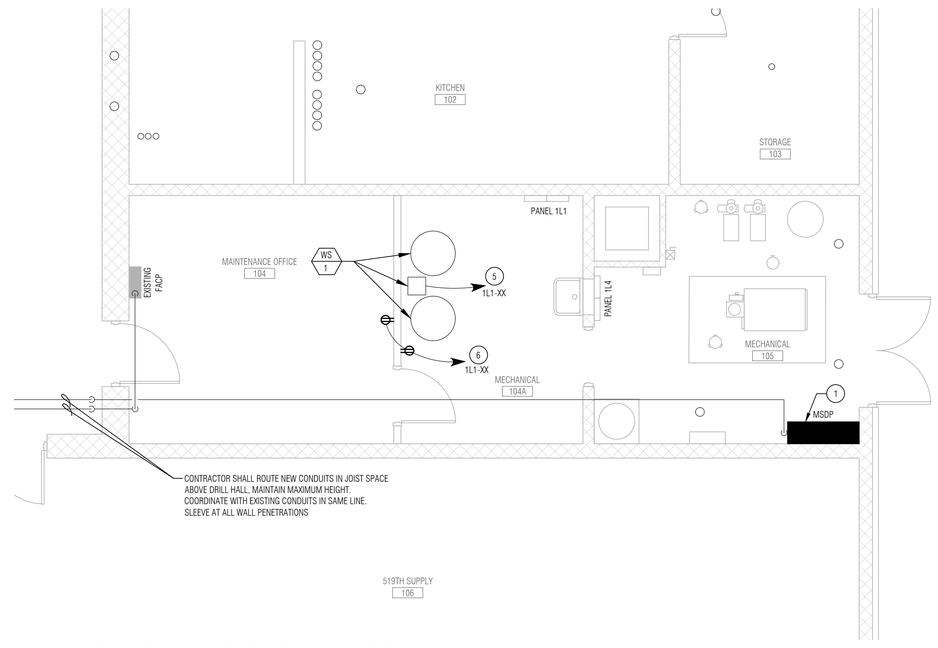
ELECTRICAL GENERAL INFORMATION



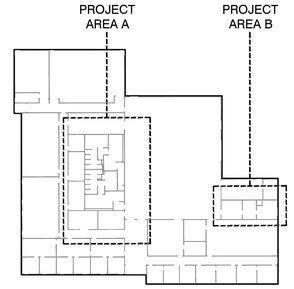
PLAN **POWER AND DATA PLAN - AREA A**

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



PLAN **POWER AND DATA PLAN - AREA B**

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



PLAN **KEY PLAN**

NOT TO SCALE

GENERAL NOTES:

1. SEE DEMOLITION DRAWING FOR REMOVAL OF EXISTING FIXTURES, EQUIPMENT AND CIRCUITS. NOT ALL ITEMS ARE INDICATED. CONTRACTOR SHALL REMOVE ALL ELECTRICAL ITEMS NOT REQUIRED FOR NEW SYSTEMS OR EXISTING SYSTEMS REQUIRED TO REMAIN.
2. CONTRACTOR SHALL ASSUME THAT UNDER SLAB ELECTRICAL FEEDERS EXIST AND SHALL REMAIN. CONTRACTOR SHALL DETERMINE LOCATIONS PRIOR TO DEMOLITION WORK AND PROTECT DURING CONSTRUCTION. CONTRACTOR SHALL SUPPORT ANY EXISTING FEEDERS IN PLACE TO PERMIT CONSTRUCTION ACTIVITIES TO CONTINUE.

KEYNOTES:

BASE BID

1. FURNISH AND INSTALL NEW MSDP WITH MAIN SERVICE DISCONNECT
2. FURNISH AND INSTALL NEW LINE VOLTAGE JUNCTION BOX ABOVE NEAREST ACCESSIBLE CEILING FOR SENSOR FLUSHOMETER TRANSFORMER.
3. FURNISH AND INSTALL NEW LOW VOLTAGE IN WALL JUNCTION BOX FOR SENSOR FLUSHOMETER. CONNECT EACH FLUSHOMETER TO TRANSFORMER WITH NOT LESS THAN 18 GAUGE 2 CONDUCTOR CABLING.
4. FURNISH AND INSTALL NEW LOW VOLTAGE IN WALL JUNCTION BOX FOR LAVATORY FAUCET SENSOR. CONNECT EACH SENSOR TO TRANSFORMER WITH NOT LESS THAN 18 GAUGE 2 CONDUCTOR CABLING.
5. POWER USING EXISTING PANEL. MODIFY EXISTING CIRCUITS AND/OR ADD A NEW 20-AMP/1P CIRCUIT BREAKER FOR NEW CIRCUIT
6. POWER USING EXISTING PANEL. MODIFY EXISTING CIRCUITS AND/OR ADD A NEW 20-AMP/1P CIRCUIT BREAKER FOR NEW CIRCUIT. RECEPTACLES SHALL BE PROTECTED BY GFCI

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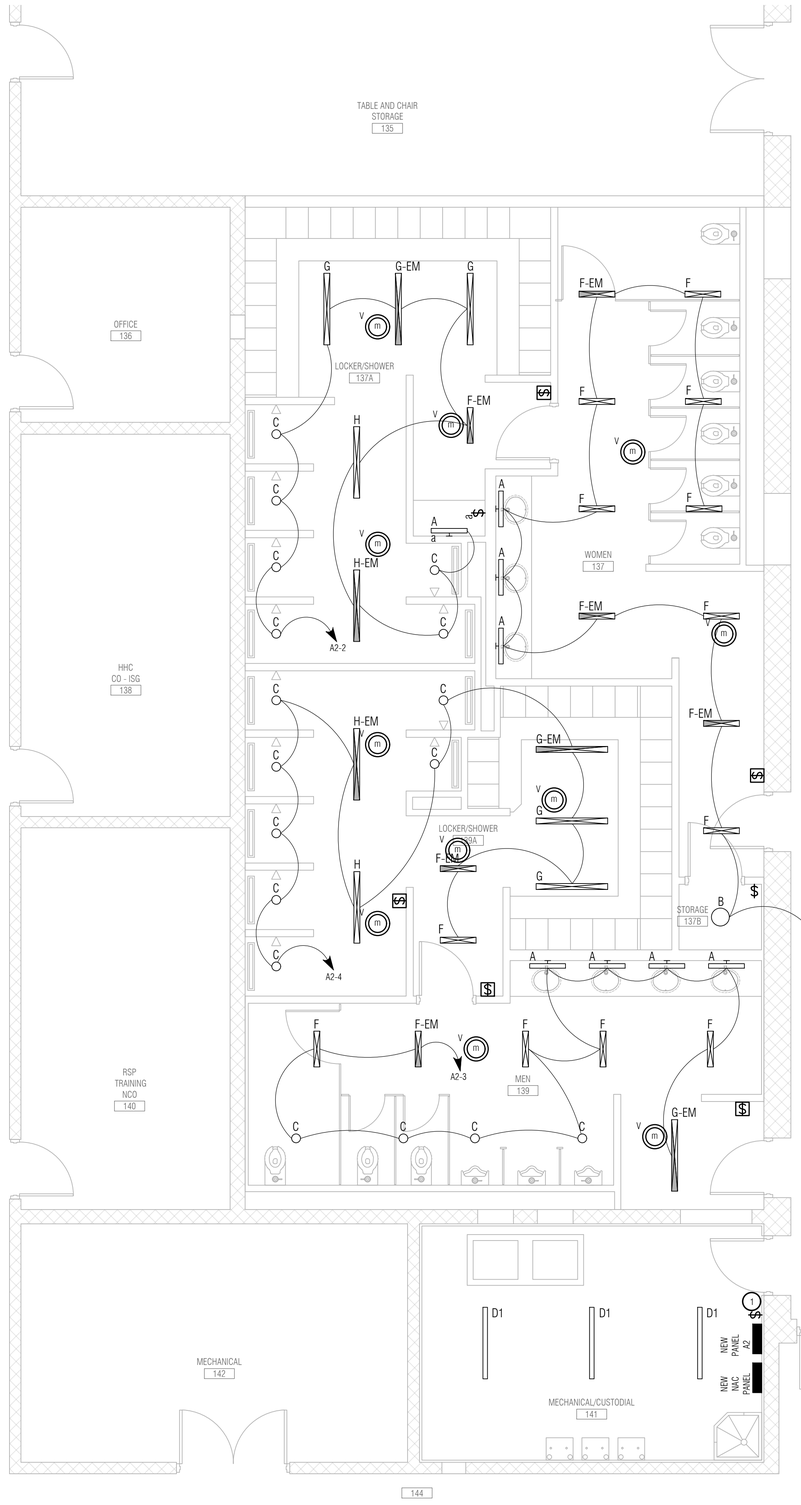
SHEET NO.

E2.1

POWER AND DATA PLAN

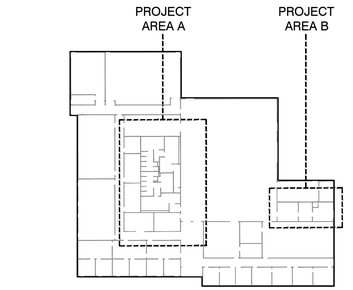


LIGHTING PLAN - AREA A

PLAN N

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

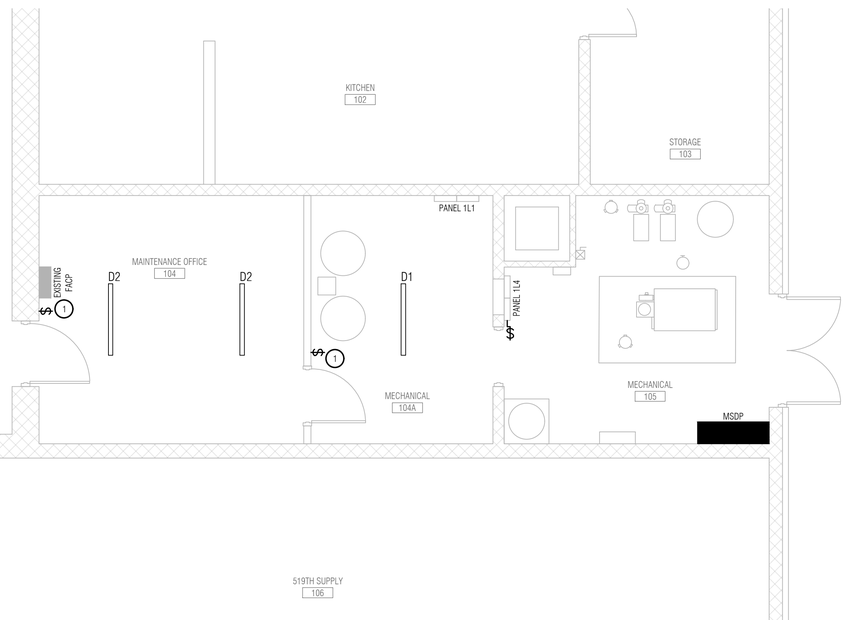
0 1 2 4 8



KEY PLAN

PLAN N

NOT TO SCALE



LIGHTING PLAN - AREA B

PLAN N

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

0 1 2 4 8

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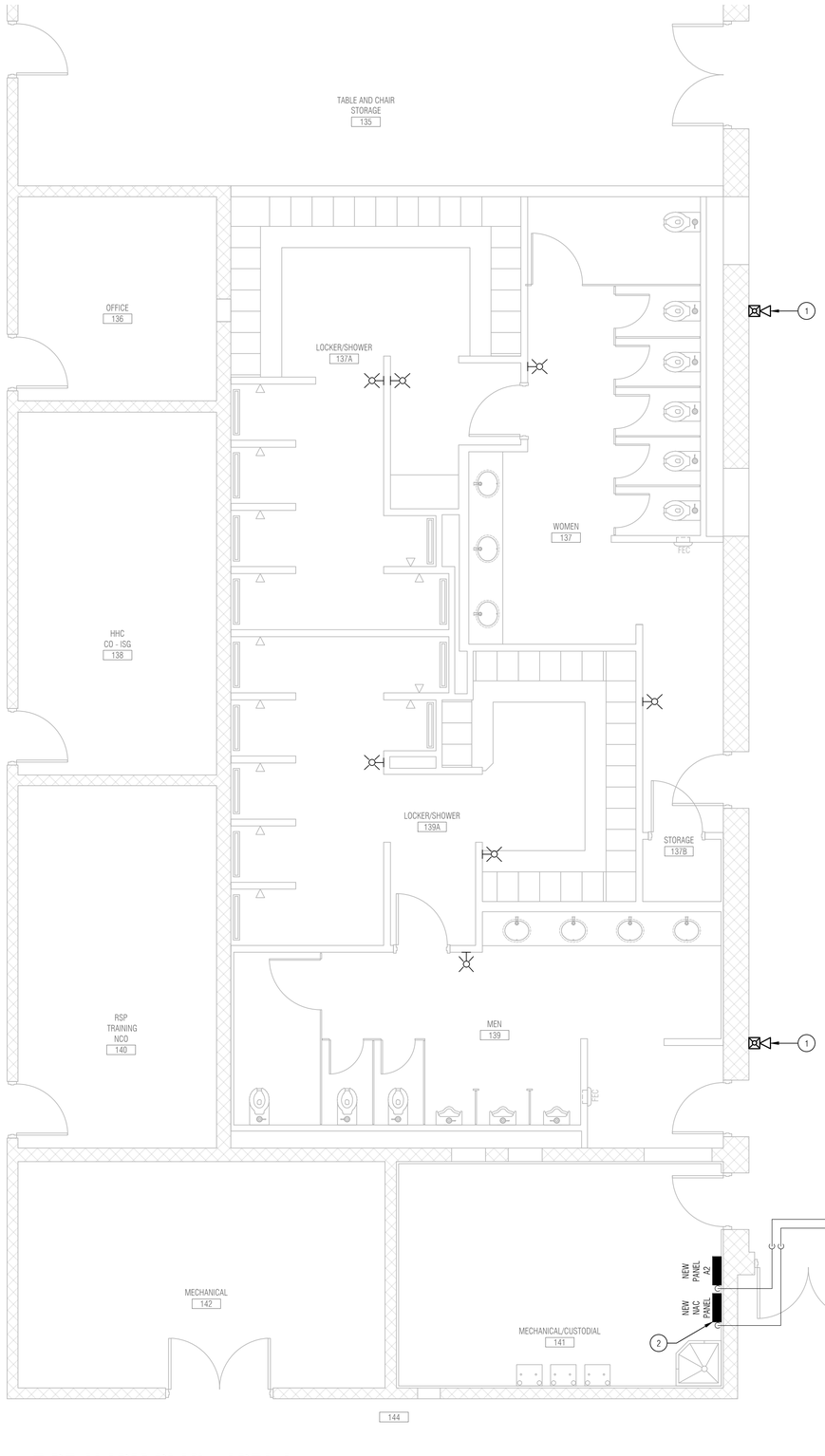
LIGHTING PLAN



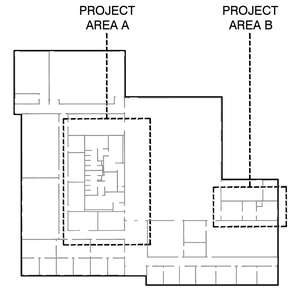
PLAN N **FIRE ALARM PLAN - AREA A**

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

0 1' 2' 4' 8'

FIRE ALARM SYSTEM GENERAL NOTES

1. THE FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE AND SHOW A MINIMAL QUANTITY OF DEVICES. CONTRACTOR SHALL DETERMINE THE FINAL QUANTITY AND LOCATION OF ALL DEVICES IN ACCORDANCE WITH THE SPECIFICATIONS, CONTRACT DRAWINGS, AND MANUFACTURER'S WRITTEN RECOMMENDATIONS TO BE COMPLIANT WITH ALL APPLICABLE CODES AND STANDARDS. ADDITIONAL DEVICES SHALL BE PROVIDED FOR A FULLY FUNCTIONING FIRE ALARM SYSTEM AS REQUIRED BY NFPA 72, UFC 3-600-01, UFC 3-600-10N, AND UFC 4-021-01.
2. ALL CONDUITS SHALL BE CONCEALED IN WALLS, FLOOR SLABS OR CEILINGS UNLESS OTHERWISE INDICATED. EXCEPTION: CONDUIT SHALL BE ALLOWED TO BE SURFACE MOUNTED ON WALLS AND CEILINGS IN UNFINISHED AREAS (E.G. MECHANICAL ROOM, ELECTRICAL ROOM, RISER ROOM). WHERE CONDUIT FEEDS DEVICES NOT MOUNTED DIRECTLY ON THE WALL OR CEILING, THE CONDUIT SHALL BE ROUTED AS A SINGLE PENDENT TYPE DROP TO EACH DEVICE.
3. PAINT ALL FIRE ALARM JUNCTION BOXES AND COVERS RED IN UNFINISHED AREAS. IN FINISHED AREAS, PAINT CONDUIT AND JUNCTION BOXES TO MATCH THE ROOM FINISH WITH THE INSIDE COVER OF JUNCTION BOXES IDENTIFIED AS "FIRE ALARM".
4. PROVIDE PAINTED RED ½" WIDE BANDS ON THE FIRE ALARM CONDUIT AT 10' ON CENTER, AND EACH SIDE OF A WALL, CEILING, OR FLOOR PENETRATION.
5. CONDUIT SHALL BE SUPPORTED IN STRICT ACCORDANCE WITH THE NEC (E.G.10 FT INTERVALS AND 3 FT FROM TERMINATION). TENSION ONLY HANGERS ARE NOT PERMITTED (E.G. BATWINGS). TYPE OF CONDUIT UTILIZED SHALL BE IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT IS ONLY PERMITTED FOR TERMINATION AT DEVICES MOUNTED ON PIPING OR SUBJECTED TO REMOVAL (E.G. FLOW SWITCHES, TAMPER SWITCHES, SPEAKERS AND STROBES MOUNTED IN REMOVABLE CEILINGS).
6. MINIMUM SIGNALLING LINE CIRCUIT (SLC) AND INITIATING DEVICE CIRCUIT (IDC) CONDUCTOR SIZING SHALL BE 16 AWG. ALL CONDUCTORS SHALL BE CONSISTENTLY COLOR COORDINATED THROUGH THE SYSTEM IN RELATION TO DEVICES THEY FEED (E.G. SLC - BLACK/RED, STROBE - YELLOW/BLUE. ADDRESSABLE SLC CIRCUITS SHALL BE PROVIDED WITH SHIELDED CONDUCTORS. SHIELDING SHALL BE GROUNDED AT ONE END OF THE CIRCUIT. ALL CIRCUITS SHALL BE PROVIDED WITH LABELING AT POINT OF TERMINATION.
7. CONDUCTORS SHALL BE RUN FROM DEVICE TO DEVICE WITHOUT SPLICES. WIRE NUTS SHALL BE PROHIBITED. TERMINAL STRIPS SHALL BE UTILIZED WHERE CONDUCTORS CANNOT BE DIRECTLY TERMINATED AT THE DEVICE (E.G. PIGTAILS OFF A HEAT DETECTOR).
8. FIRE ALARM EQUIPMENT PANELS SHALL NOT BE USED AS RACEWAY FOR ROUTING POWER WIRING OR LOW VOLTAGE WIRING. ONLY WIRING TERMINATING WITH THE PANEL SHALL BE ROUTED INTO THE PANEL. POWER WIRING AND POWER LIMITED WIRING SHALL BE SEPARATED BY A MINIMUM OF TWO INCHES WITHIN THE EQUIPMENT PANELS.
9. THE SUPPLY AND RETURN CLASS A CIRCUITS SHALL BE HORIZONTALLY SEPARATED BY 4 FT AND VERTICALLY SEPARATED BY 1 FT EXCEPT WHERE PERMITTED BY NFPA 72. CLASS A CIRCUITS SHALL NOT BE ROUTED IN THE SAME CHASE WHERE ROUTED BETWEEN FLOORS.
10. MOUNTING DEVICES IN THE FACP, NAC BOOSTER PANELS, AMP BOOSTER PANELS, AND TRANSCEIVER PANELS WHICH ARE NOT UL LISTED AS PART OF THE PANEL IS PROHIBITED.
11. ALL POWER SUPPLIES TO FACP, NAC BOOSTER PANELS, AMP BOOSTER PANELS SHALL BE PROVIDED WITH SURGE PROTECTION DEVICE. ALL SLC, NAC, OR IDC CIRCUITS ENTERING OR LEAVING THE BUILDING SHALL BE PROVIDED WITH SPD. EXCEPTION: CIRCUITS TO DEVICES MOUNTED DIRECTLY ON THE EXTERIOR OF THE BUILDING DO NOT REQUIRE SPD (E.G. EXTERIOR ALARM BELL). SPD SHALL BE MOUNTED IN A SEPARATE ENCLOSURE.
12. STROBE SPACING FOR THE FIRE ALARM SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 72, MINIMUM.
13. WHERE TWO OR MORE STROBES ARE VISIBLE FROM ANY FIELD OF VIEW, THEY SHALL BE SYNCHRONIZED.



PLAN N **KEY PLAN**

NOT TO SCALE

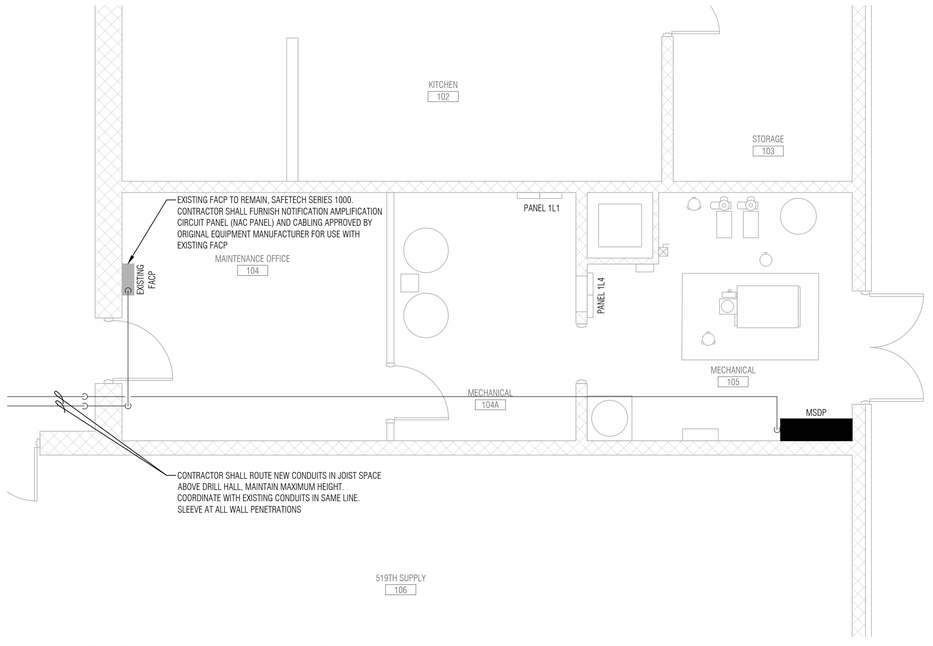
FIRE ALARM LEGEND:

FACP	NEW FIRE ALARM CONTROL PANEL
ANN	NEW FIRE ALARM REMOTE ANNUNCIATOR PANEL
F	NEW PULL STATION
2	NEW SMOKE DETECTOR
H	NEW HEAT DETECTOR
	NEW HORN/STROBE
	NEW STROBE ONLY
DD	DUCT DETECTOR
M	FIRE ALARM MODULE
K	KNOX BOX (RECESSED); FURNISH AND INSTALL TO MEET LOCAL CODES

KEYNOTES:

BASE BID

1. PROVIDE CONDUIT THROUGH WALL ABOVE RESTROOM CEILING, NO CONDUIT SHALL BE EXPOSED ON DRILL FLOOR WALL. FIRESTOP PENETRATIONS THROUGH WALL.
2. CONTRACTOR SHALL PROVIDE A NEW NAC IN ROOM 141, CONNECT NEW NAC TO THE EXISTING FACP IN ROOM 104.



PLAN N **FIRE ALARM PLAN - AREA B**

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

0 1' 2' 4' 8'

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FIRE ALARM PLAN

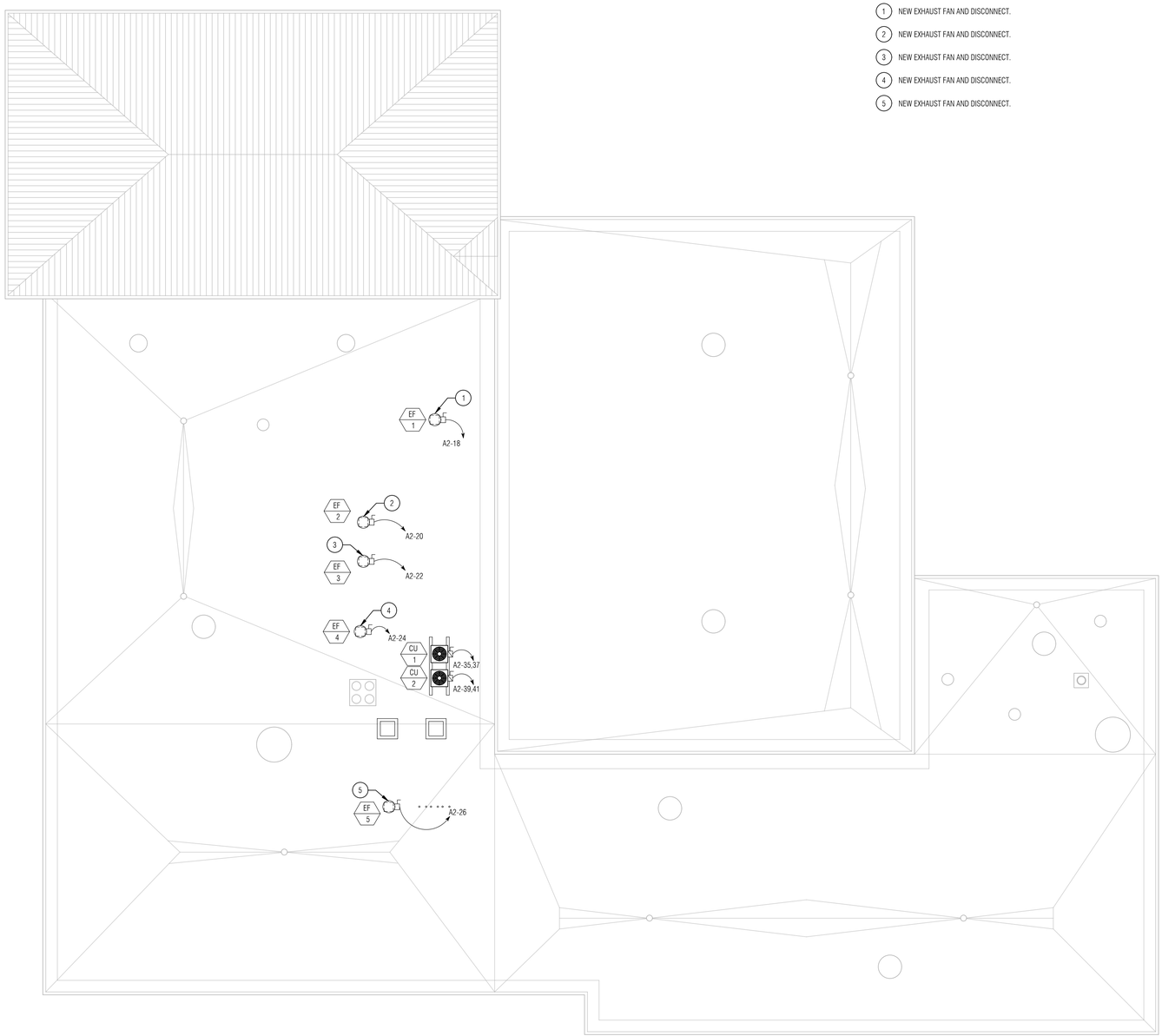
GENERAL NOTES:

1. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR ALL WORK RELATED TO THEIR TRADE ON ALL CONSTRUCTION DRAWINGS.
2. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO START OF WORK - ANY DISCREPANCIES SHALL CONFORM TO ACTUAL EXISTING CONDITIONS UPON APPROVAL OF OWNER - REPORT ANY DISCREPANCIES TO OWNER PRIOR TO THE CONTINUATION OF WORK.
3. WHERE A KEYNOTE IS INDICATING WORK TO BE PERFORMED, THE KEYNOTE IS INTENDED TO BE TYPICAL FOR ALL LOCATIONS. PERFORM WORK AT ALL LOCATIONS WHERE OCCURS AS REQUIRED TO COMPLETE WORK UNLESS OTHERWISE INDICATED.

KEYNOTES:

BASE BID

1. NEW EXHAUST FAN AND DISCONNECT.
2. NEW EXHAUST FAN AND DISCONNECT.
3. NEW EXHAUST FAN AND DISCONNECT.
4. NEW EXHAUST FAN AND DISCONNECT.
5. NEW EXHAUST FAN AND DISCONNECT.



PLAN N

ELECTRICAL ROOF PLAN

SCALE: 3/32"=1'-0"

0 2' 5' 10' 20'

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ELECTRICAL ROOF PLAN

LUMINAIRE SCHEDULE

TAG	MANUF.	MODEL	LAMPING	COLOR	WATTS	LUMENS	FINISH	REMARKS
A	BROWNLEE	5165-24-BN-H13-35K	LED	3500K	13	1663	BRUSHED NICKEL	
B	BROWNLEE	2061-14-WH-R11-FL1-35K	LED	3500K	11	1094	WHITE	
C	FOCAL POINT	FLC3D-RO-80-700L-UNV-LD1-IC	LED	3500K	8	700	WHITE	
D1	METALUX	BAA-4SNX-60SL-UNV-L835-CD	LED	3500K	42	6507	WHITE	DIRECT MOUNT TO BOTTOM OF BAR JOIST
D2	METALUX	BAA-4SNX-60SL-UNV-L835-CD	LED	3500K	42	6507	WHITE	DIRECT MOUNT TO BOTTOM UNISTRUT SPANNING BETWEEN TWO NEAREST BAR JOISTS
F	STARTEK	RBEAM-2-750-SD-35K-80-PW-TB2-U	LED	3500K	17	1500	WHITE	
F-EM	STARTEK	RBEAM-2-750-SD-35K-80-PW-TB2-U-#EMB10	LED	3500K	17	1500	WHITE	
G	STARTEK	RBEAM-4-750-SD-35K-80-PW-TB2-U	LED	3500K	34	3000	WHITE	
G-EM	STARTEK	RBEAM-4-750-SD-35K-80-PW-TB2-U-#EMB10	LED	3500K	34	3000	WHITE	
H	STARTEK	HYDRO-4-1000-SD-PIT-35K-80-PW-SM(T)-U	LED	3500K	110	4000	WHITE	
H-EM	STARTEK	HYDRO-4-1000-SD-PIT-35K-80-PW-SM(T)-U-#EMB10	LED	3500K	110	4000	WHITE	

GENERAL NOTES:
1. CONTRACTOR SHALL FURNISH ALL LUMINAIRES (FIXTURES) WITH LEDS AND FURNISH TO OWNER 5% REPLACEMENT DRIVERS, MINIMUM OF 2 FOR EACH FIXTURE TYPE.
2. WHERE REQUIRED CONTRACTOR SHALL FURNISH AND INSTALL ALL REMOTE DRIVERS AND REMOTE TEST SWITCHES, LOCATION AS DETERMINED IN FIELD BY OWNER/ARCHITECT/ENGINEER.
3. CONTRACTOR TO DETERMINE KNOCKOUTS FOR LIGHTS SURFACE MOUNTED FOR RACEWAY LOCATIONS.

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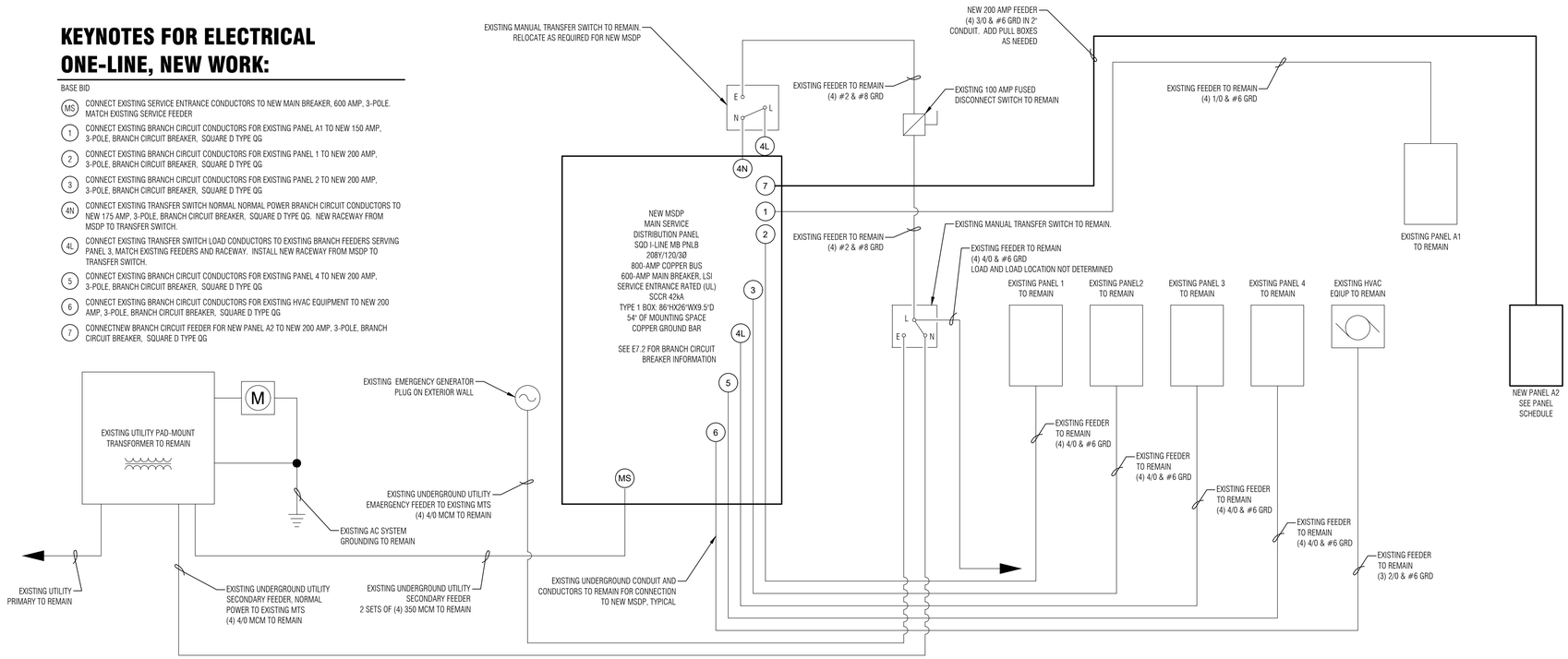
ELECTRICAL SCHEDULES

KEYNOTES FOR ELECTRICAL ONE-LINE, NEW WORK:

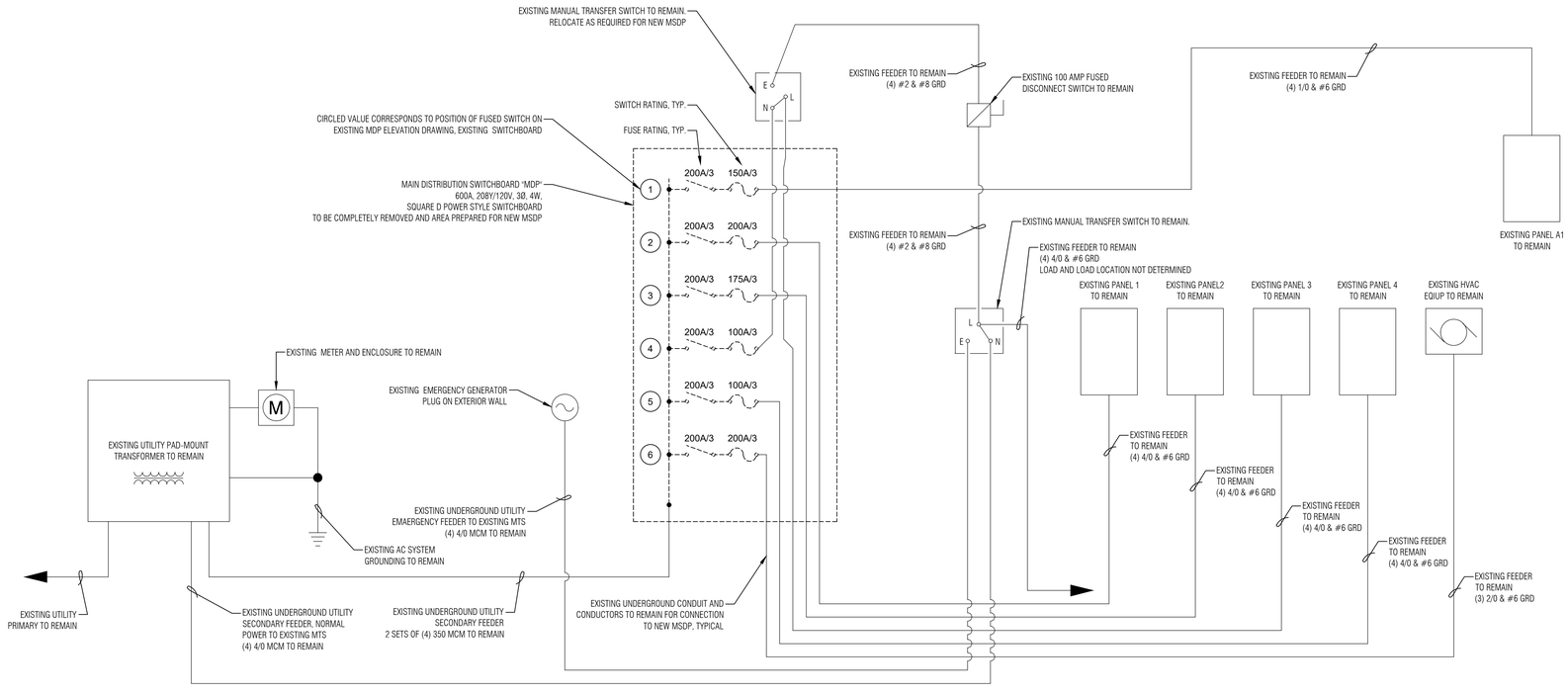
BASE BID

- (MS) CONNECT EXISTING SERVICE ENTRANCE CONDUCTORS TO NEW MAIN BREAKER, 600 AMP, 3-POLE. MATCH EXISTING SERVICE FEEDER
- (1) CONNECT EXISTING BRANCH CIRCUIT CONDUCTORS FOR EXISTING PANEL A1 TO NEW 150 AMP, 3-POLE, BRANCH CIRCUIT BREAKER, SQUARE D TYPE QG
- (2) CONNECT EXISTING BRANCH CIRCUIT CONDUCTORS FOR EXISTING PANEL 1 TO NEW 200 AMP, 3-POLE, BRANCH CIRCUIT BREAKER, SQUARE D TYPE QG
- (3) CONNECT EXISTING BRANCH CIRCUIT CONDUCTORS FOR EXISTING PANEL 2 TO NEW 200 AMP, 3-POLE, BRANCH CIRCUIT BREAKER, SQUARE D TYPE QG
- (4N) CONNECT EXISTING TRANSFER SWITCH NORMAL NORMAL POWER BRANCH CIRCUIT CONDUCTORS TO NEW 175 AMP, 3-POLE, BRANCH CIRCUIT BREAKER, SQUARE D TYPE QG. NEW RACEWAY FROM MSDP TO TRANSFER SWITCH.
- (4L) CONNECT EXISTING TRANSFER SWITCH LOAD CONDUCTORS TO EXISTING BRANCH FEEDERS SERVING PANEL 3, MATCH EXISTING FEEDERS AND RACEWAY. INSTALL NEW RACEWAY FROM MSDP TO TRANSFER SWITCH.
- (5) CONNECT EXISTING BRANCH CIRCUIT CONDUCTORS FOR EXISTING PANEL 4 TO NEW 200 AMP, 3-POLE, BRANCH CIRCUIT BREAKER, SQUARE D TYPE QG
- (6) CONNECT EXISTING BRANCH CIRCUIT CONDUCTORS FOR EXISTING HVAC EQUIPMENT TO NEW 200 AMP, 3-POLE, BRANCH CIRCUIT BREAKER, SQUARE D TYPE QG
- (7) CONNECTNEW BRANCH CIRCUIT FEEDER FOR NEW PANEL A2 TO NEW 200 AMP, 3-POLE, BRANCH CIRCUIT BREAKER, SQUARE D TYPE QG



ELECTRICAL ONE-LINE DIAGRAM, NEW WORK

NOT TO SCALE



ELECTRICAL ONE-LINE DIAGRAM, DEMOLITION

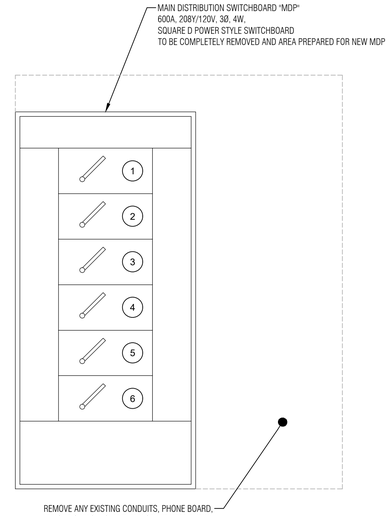
NOT TO SCALE

ELECTRICAL RISER GENERAL NOTES:

1. BIDDERS SHALL INSPECT EXISTING EQUIPEMENT, CONDUCTORS, RACEWAY AND OTHER CIRCUIT CHARACTERISTICS IN FIELD PRIOR BIDDING.
2. FEEDER SIZING IS BASED UPON COPPER CONDUCTORS AND EMT CONDUIT. WHERE OTHER CONDUIT/RACEWAY MATERIAL IS USED, CONTRACTOR SHALL MAKE ADJUSTMENTS AND ADAPT APPLICABLE SIZES.
3. WITHIN NEW MSDP, CONTRACTOR SHALL SPLICE NEW CONDUCTORS TO EXISTING CONDUCTORS AS REQUIRED FOR CONNECTIONS TO NEW MSDP BRANCH CIRCUIT BREAKERS. SEE PROJECT MANUAL FOR SPLICE REQUIREMENTS.
4. COORDINATE ALL MAGNETIC STARTERS AND DISCONNECTS W/CONTRACTOR SUPPLYING EQUIPMENT.
5. SEE MECHANICAL PLANS, SCHEDULES, AND SPECIFICATIONS FOR ADDITIONAL EQUIPMENT INFORMATION. VERIFY ALL EQUIPMENT WITH OTHER CONTRACTORS AT TIME OF SHOP DRAWINGS/SUBMITTALS.
6. NOT ALL EQUIPMENT CONNECTIONS, DOOR OPERATORS, FRACTIONAL HP MOTORS, RECEPTACLES, LIGHTING, ETC. ARE SHOWN ON THIS RISER. SEE DRAWINGS AND PANEL SCHEDULES FOR ADDITIONAL EQUIPMENT CONNECTIONS, RECEPTACLES, AND LIGHTING. AT A MINIMUM, ALL LOADS SHALL BE CONNECTED USING THE CONDUCTOR AND CONDUIT SIZES A REQUIRED BY NATIONAL ELECTRICAL CODE.

ONE-LINE RISER DIAGRAM SYMBOLS:

- VFD — VARIABLE FREQUENCY DRIVE
- DISCONNECT SAFETY SWITCH
- COMBINATION MAGNETIC STARTER/FUSED DISCONNECT
- COMBINATION MAGNETIC STARTER/DISCONNECT
- FUSED DISCONNECT
- (X) — MOTOR w/HORSEPOWER INDICATED
- GROUNDING/CONNECT TO SYSTEM GROUND
- TRANSFORMER (TXFR)



EXISTING MDP ELEVATION

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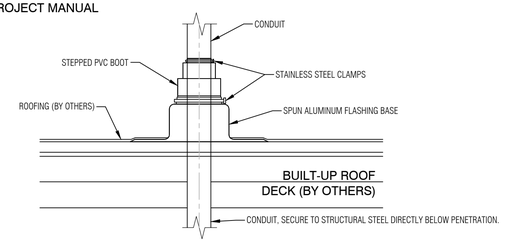
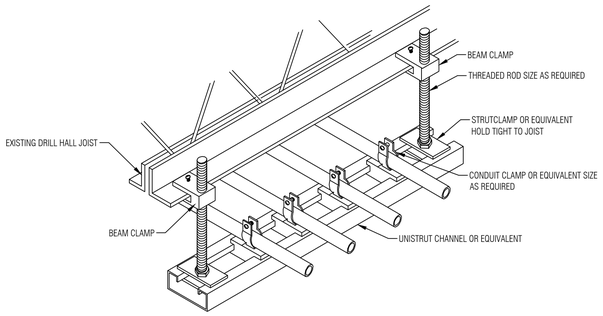
ELECTRICAL RISER

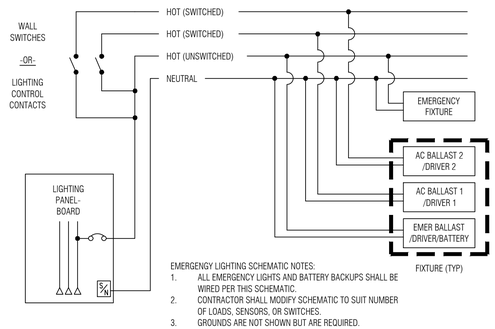
COORDINATE ALL PENETRATIONS AND
FLASHINGS WITH ROOR REPAIR REQUIREMENTS
IN PROJECT MANUAL



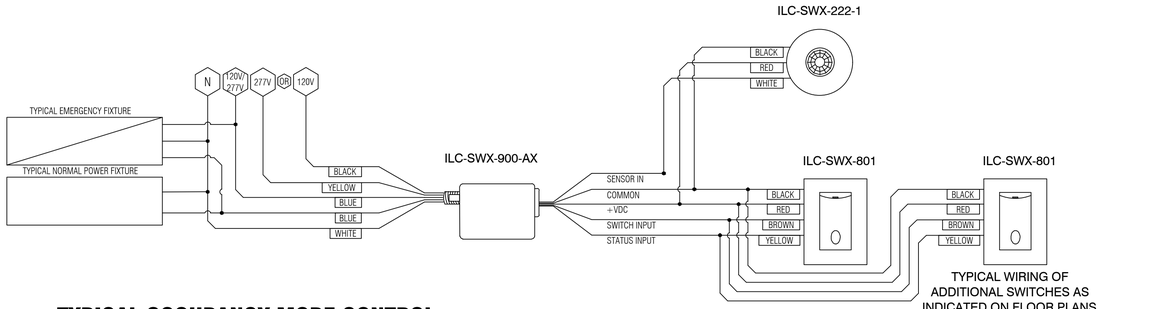
1 CONDUIT ROOF PENETRATION
NOT TO SCALE



2 2-INCH AND LARGER CONDUIT SUPPORT
NOT TO SCALE



3 EMERGENCY LIGHTING SCHEMATIC
NOT TO SCALE

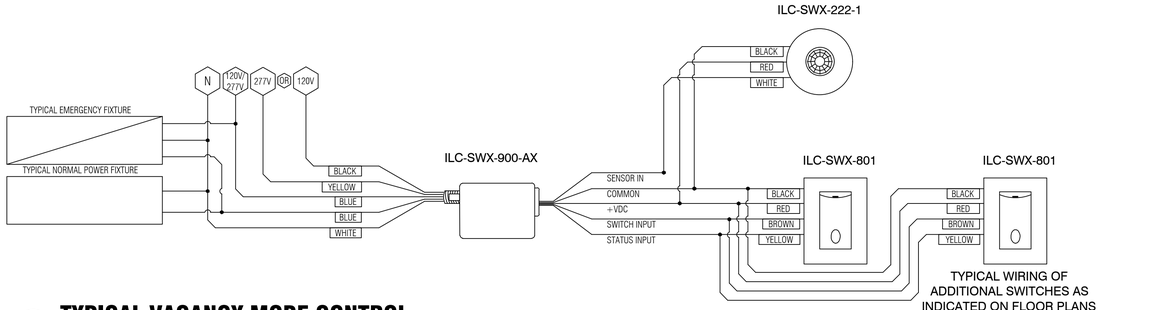


4 TYPICAL OCCUPANCY MODE CONTROL
NOT TO SCALE

DEFAULT OPERATION OF DEVICE IS TO OPERATE AS AUTO ON/AUTO OFF WITH MANUAL OVERRIDE

EMERGENCY FIXTURES SHALL INCLUDE AN INTEGRAL BATTERY AND REQUIRES A NORMAL POWER CONSTANT HOT IN ADDITIONAL TO THE LOCAL SWITCHLEG. THIS IS TYPICAL OF ALL EMERGENCY FIXTURES NOTED ON FLOOR PLANS.

ALL DEVICES SHALL BE BAA COMPLIANT

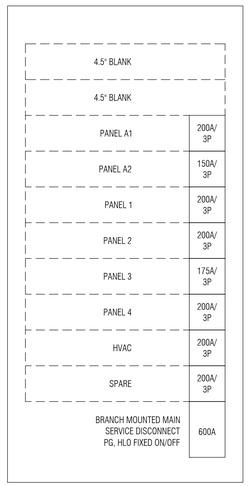


5 TYPICAL VACANCY MODE CONTROL
NOT TO SCALE

INSTALLING CONTRACTOR SHALL CONFIGURE THE CONTROLS TO OPERATE AS MANUAL ON/AUTO OFF

EMERGENCY FIXTURES SHALL INCLUDE AN INTEGRAL BATTERY AND REQUIRES A NORMAL POWER CONSTANT HOT IN ADDITIONAL TO THE LOCAL SWITCHLEG. THIS IS TYPICAL OF ALL EMERGENCY FIXTURES NOTED ON FLOOR PLANS.

ALL DEVICES SHALL BE BAA COMPLIANT



NEW MSDP SCHEMATIC
SCALE: NONE

PANEL		PANEL TYPE	MAINS
A2		SQUARE D NQ ML	225 AMP BUSSING
		SCCR: 22KA FULLY RATED	
ELECTRICAL DATA		**MOUNTING**	**POWER SOURCE**
208Y/120V/ 3ϕ/4W		SURFACE	MSDP

IDENTIFICATION	AMPS TRIP C.B.	POLES	AMPS	NUM	A	B	C	NUM	AMPS	POLES	AMPS TRIP C.B.	IDENTIFICATION
Lights Rm 137,137B	20	1	2.5	1	5.0	-	-	2	2.5	1	20	Lights Rm 137A
Lights Rm 139	20	1	2.5	3	-	5.0	-	4	2.5	1	20	Lights Rm 139A
Spare	20	1	0.0	5	-	-	0.0	6	0.0	1	20	Spare
Receps Rm 137, 137B South Wall	20	1	4.5	7	10.5	-	-	8	6.0	1	20	Receps Rm 137 South Wall, Counter
Receps Rm 137A	20	1	4.5	9	-	12.0	-	10	7.5	1	20	Receps Rm 139
Receps Rm 139A	20	1	4.5	11	-	-	9.0	12	4.5	1	20	Receps Rm 141
Flush Valve Xtmr Rm 137	20	1	1.5	13	3.0	-	-	14	1.5	1	20	Lav Faucet Xtmr Rm 137
Flush Valve Xtmr Rm 139	20	1	1.5	15	-	3.0	-	16	1.5	1	20	Lav Faucet Xtmr Rm 139
NAC Panel	20	1	5.0	17	-	-	10.8	18	5.8	1	20	EF-1
Spare	20	1	0.0	19	5.8	-	-	20	5.8	1	20	EF-2
Spare	20	1	0.0	21	-	5.8	-	22	5.8	1	20	EF-3
Spare	20	1	0.0	23	-	-	5.8	24	5.8	1	20	EF-4
Spare	20	1	0.0	25	5.8	-	-	26	5.8	1	20	EF-5
Spare	20	1	0.0	27	-	0.0	-	28	0.0	1	20	Spare
Spare	20	1	0.0	29	-	-	0.0	30	0.0	1	20	Spare
Fan Coil Unit FCU-1	15	1	4.5	31	9.5	-	-	32	5.0	1	20	Hot Water Recirc. Pump HWRP-1
Fan Coil Unit FCU-2	15	1	4.5	33	-	18.0	-	34	13.5	1	15	Water Heaters WH-1, WH-2,WH-3
Condensing Unit CU-1	50	2	33.5	35	-	-	33.5	36	0.0	2	15	SPARE
			33.5	37	33.5	-	-	38	0.0			
Condensing Unit CU-2	50	2	33.5	39	-	33.5	-	40	0.0	2	30	SPARE
			33.5	41	-	-	33.5	42	0.0			
CONNECTED AMPS					**73.1**	**77.3**	**92.6**					**CONNECTED AMPS**

PANEL A2 SCHEDULE
SCALE: NONE

ISSUE	DESCRIPTION	DATE
0	ISSUED FOR BIDDING AND CONSTRUCTION	05/31/2024

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STATE OF
INDIANA
ARCHITECT
05-31-2024

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NO
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STATE OF
INDIANA
PROFESSIONAL
ENGINEER
05/31/2024

TERRE HAUTE RC FEMALE LATRINE EXPANSION
INDIANA NATIONAL GUARD
IFB NO: MDI-SAB-24-B-002
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SHEET NO.
E7.2
ELECTRICAL SCHEMATICS
AND PANEL SCHEDULES