LATRINE ALTERATIONS FOR:

MT HOLLY ARMORY

1670 NJ-38
MT HOLLY, NEW JERSEY 08060
DMA PROJECT NO. MH008

PROJECT INFORMATION

OWNER IN FEE:
DEPARTMENT OF MILITARY AFFAIRS
101 EGGERTS CROSSING ROAD
LAWRENCEVILLE, NJ 08648
TEL. (609) 530-6784
EMAIL: Arturo.Domingo@dma.nj.gov

CONTACT INFO:
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GOVERNING CODE:
NEW JERSEY UNIFORM CONSTRUCTION CODE -
REHABILITATION SUB-CODE AND
INTERNATIONAL BUILDING CODE 2021 NEW JERSEY EDITION
WHEN REFERENCED

CATEGORY:
RENOVATIONS 5:23-6.5, ALTERATIONS 5:23-6.6

SUMMARY:
ALTERATIONS TO THE EXISTING MEN'S AND WOMEN'S LATRINES. SHOWERS AND LOCKERS ARE TO BE ADDED TO BOTH LATRINES, INCLUDING ONE ACCESSIBLE SHOWER PER LATRINE. A SEPARATE NEW ACCESSIBLE UNISEX TOILET ROOM WILL BE PROVIDED. ALL NEW FLOORING, CEILING AND PLUMBING FIXTURES WILL BE PROVIDED. ALL NEW LIGHTING WILL BE PROVIDED. AN ENERGY RECOVERY UNIT WILL BE ADDED AND LOCATED ON GRADE ADJACENT TO THE LATRINES. HEAT PUMPS WILL BE ADDED TO EACH OF THE LATRINES.

SQUARE FOOTAGE:

AREA OF WORK ..... 575 S.F.

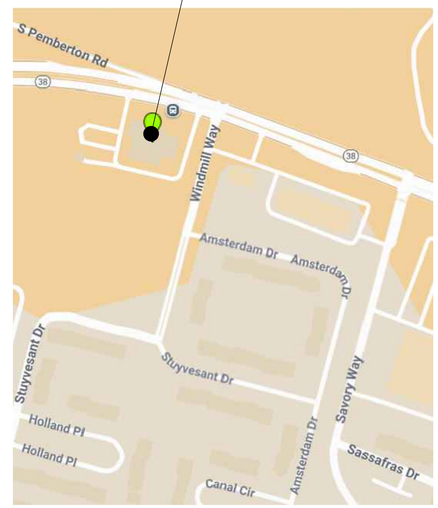
DESCRIPTION OF BUILDING USE

STATE SPECIFIC USE:	NATIONAL GUARD READINESS CENTER
USE GROUP, NEW	BUSINESS (CO CHANGE)
CHANGE IN USE GROUP, PRESENT	BUSINESS
MIXED USE - SECONDARY USES	N/A
CONSTRUCTION CLASSIFICATION, PRESENT	IIIB SPRINKLERED
CONSTRUCTION CLASSIFICATION, NEW	IIIB SPRINKLERED (NO CHANGE)

BUILDING/SITE CHARACTERISTICS

NUMBER OF STORIES	1 EXISTING
HEIGHT OF STRUCTURE	22' +/-
AREA - LARGEST FLOOR	14,828 S.F. +/-
NEW BUILDING AREA	0 S.F.
VOLUME OF NEW STRUCTURE	0 CU. FT.
MAX LIVE LOAD	150 PSF
TOTAL LAND DISTURBED	0 S.F.
FLOOD HAZARD ZONE	ZONE X
BASE FLOOD ELEVATION	N/A
WETLANDS	NO
STRUCTURAL DESIGN CRITERIA	ASCE 7-16
WIND DESIGN SPEED	129 MPH

PROJECT LOCATION



2 LOCATION MAP
N.T.S.

ENVIRONMENTAL:

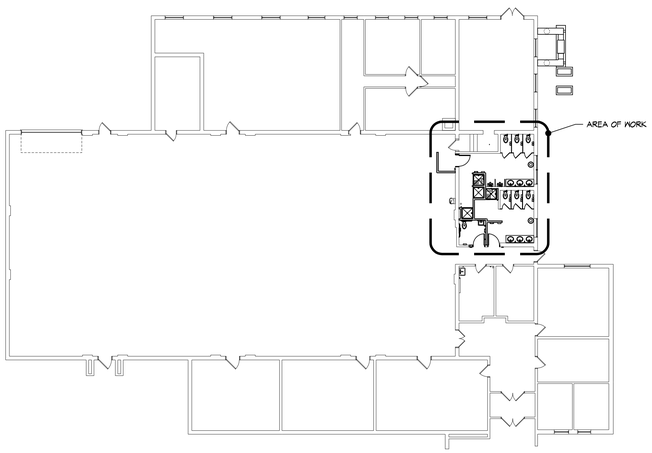
TTI ENVIRONMENTAL
1253 NORTH CHURCH ROAD
MOORESTOWN, NJ 08057
T: (856) 840-8800
Email: scottm@ttienv.com

STRUCTURAL ENGINEERS:

KSI PROFESSIONAL ENGINEERS
P.O. BOX 628
FARMINGDALE, NJ 07727
T: (732) 938-2666
F: (732) 938-2661
Email: pcronin@ksi-pe.com

MECH/ELEC/PLUMBING ENGINEERS:

KSI CONSULTING ENGINEERS
P.O. BOX 628
FARMINGDALE, NJ 07727
T: (732) 938-2666
F: (732) 938-2661
Email: achristie@ksi-pe.com



1 KEY MAP
N.T.S.

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Department of Community Affairs
Construction Project Review
Project No: 9050-26
Part: Ref. Interior/Bldg.
building review
Raffaele Persico
Released: 5/22/2026
N.J.S.A. 52:27D-119 ET SEQ., AS AMENDED

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NJ. LICENSE # AI 14550
N.Y. LICENSE # 028885

CERTIFICATE OF AUTHORIZATION
No. AC33200

LATRINE ALTERATIONS FOR:
MT HOLLY ARMORY
1670 NJ-38
MT HOLLY, NEW JERSEY 08060
DMA PROJECT NO. MH008

REV.:	DATE:	DESCRIPTION:

COVER SHEET

PROJECT NO.: 2557 | DRAWN BY: DD

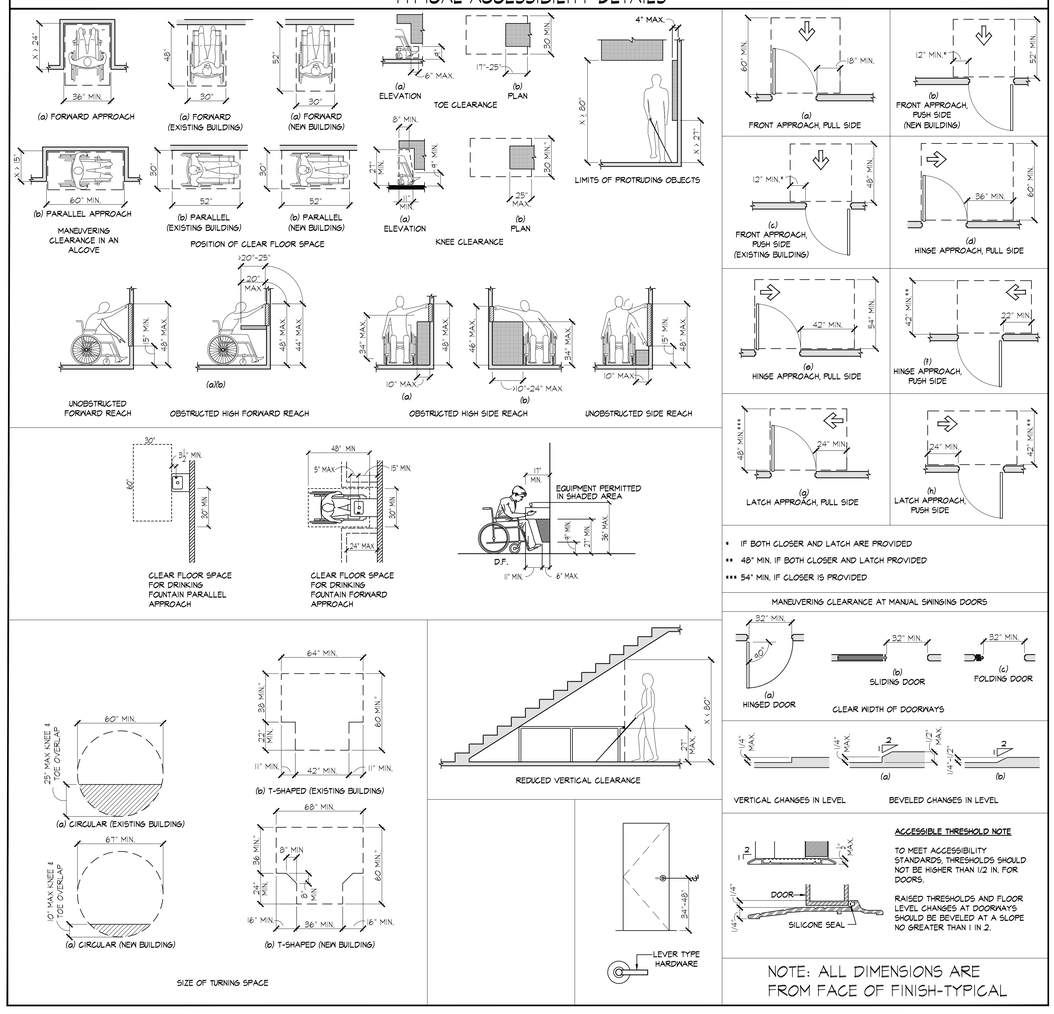
DATE ISSUED: 3/30/2026

SHEET NO.:

CS

3/24/2026 9:53:19 AM

TYPICAL ACCESSIBILITY DETAILS



- * IF BOTH CLOSER AND LATCH ARE PROVIDED
- ** 48" MIN. IF BOTH CLOSER AND LATCH PROVIDED
- *** 54" MIN. IF CLOSER IS PROVIDED

MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS

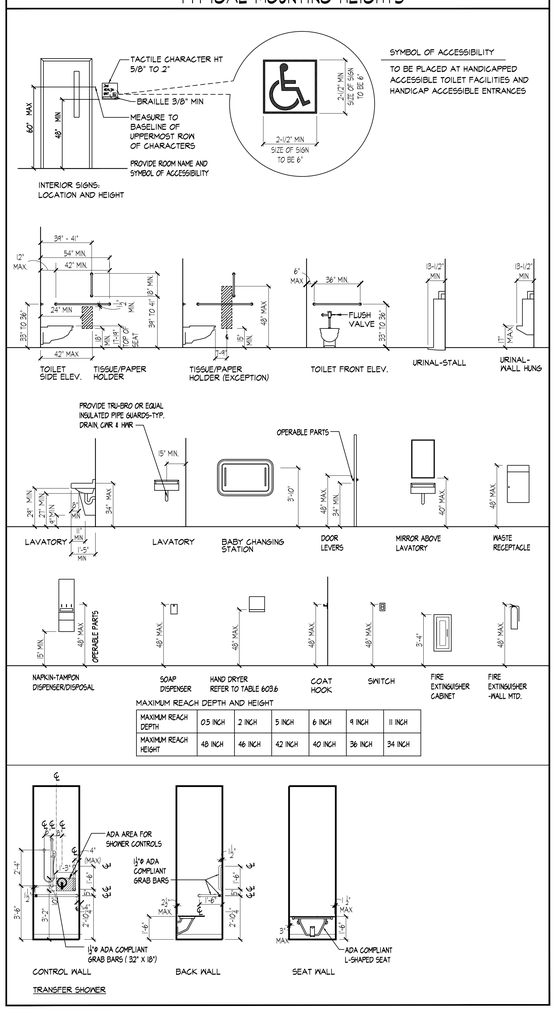
ACCESSIBLE THRESHOLD NOTE

TO MEET ACCESSIBILITY STANDARDS, THRESHOLDS SHOULD NOT BE HIGHER THAN 1/2 IN. FOR DOORS.

RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT DOORWAYS SHOULD BE BEVELED AT A SLOPE NO GREATER THAN 1 IN 2.

NOTE: ALL DIMENSIONS ARE FROM FACE OF FINISH-TYPICAL

TYPICAL MOUNTING HEIGHTS



MAXIMUM REACH DEPTH AND HEIGHT

MAXIMUM REACH DEPTH	05 INCH	2 INCH	5 INCH	8 INCH	9 INCH	11 INCH
MAXIMUM REACH HEIGHT	48 INCH	46 INCH	42 INCH	40 INCH	36 INCH	34 INCH

GENERAL NOTES

1. ALL SCOPE OF WORK SHOWN IN CONSTRUCTION DOCUMENTS/DRAWINGS, SPECIFICATIONS SHALL BE COORDINATED BY GENERAL CONTRACTOR. THE DESIGNATI "NIC" INDICATES THE WORK IS NOT IN ANY PRIME CONTRAC IN THE PROJECT.
2. DO NOT SCALE DWGS TO OBTAIN DIMENSIONS. REFER TO ARCHITECTURAL DWGS FOR DIMENSIONS REQUIRED. VERIFY ALL DIMENSIONS PRIOR TO THE START OF WORK. IN THE EVENT OF DISCREPANCY, NOTIFY THE ARCHITECT AND OBTAIN RESOLUTION BEFORE PROCEEDING.
3. NOTES ON ONE DRAWING OR DETAIL APPLY TO ALL SIMILA DRAWINGS OR DETAILS UNLESS DETAILED OTHERWISE.
4. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO COMMENCING ANY WORK AFFECTED.
5. U.N.O. DIMENSIONS ARE FROM FACE OF MASONRY, FROM FACE OF FINISH OR FROM FACE OF EXS. CONSTRUCTION. MASONRY DIMENSIONS ARE NOMINAL.
6. CAULK JOINTS WHERE INDICATED ON DWGS AS WELL AS AT JOINTS BETWEEN DISSIMILAR MATERIALS.
7. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT GALVANIC ACTION.
8. ALL ITEMS NOT LABELED AS "EXISTING" ARE NEW AND TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
9. VERIFY EXISTING DIMENSIONS, CONDITIONS, AND CLEARANCES PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.
10. ALL SLEEVES, OPENINGS, ETC. FOR CONDUIT, PIPES, DUCTS, ETC. (OUTSIDE OF RATED CHASES) THROUGH FLOOR SLABS AND RATED PARTITIONS ARE TO BE FIRE SEALED IN ACCORDANCE WITH FIRE RATED ASSEMBLY DESIGNS, AND APPLICABLE CODES.
11. PROVIDE ALL BLOCKING AND ANCHORAGE AS NECESSARY FOR PROPER INSTALLATION AND SUPPORT OF NEW WORK.
12. ADDITIONAL PLAN INFORMATION IS SHOWN ON LARGER SCALE PLANS WHERE INDICATED BY KEYED REFERENCE.
13. WHERE A SPECIFIC CONDITION IS DETAILED, IT SHALL BE UNDERSTOOD THAT ALL LIKE OR SIMILAR CONDITIONS ARE THE SAME UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE.
14. THE ARCHITECT SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED WRITTEN APPROVAL OF THE ARCHITECT.
15. CONTRACTOR IS TO PROTECT ALL AREAS IN SUCH MANNER AS TO ELIMINATE HAZARDS TO PERSONS AND PROPERTY; TO MINIMIZE INTERFERENCE WITH USE OF ADJACENT AREA, UTILITIES AND STRUCTURES OR INTERRUPTION OF USE OF SUCH UTILITIES.
16. AFTER REMOVAL AND PATCHING OF ELEMENTS, THE FINISHED APPEARANCE SHALL MATCH ADJACENT EXISTING SURFACES AND FINISHES, UNLESS OTHERWISE NOTED. (APPLIES TO EXISTING CONSTRUCTION ONLY)
17. FIRE EXTINGUISHERS SHOWN ON PLANS ARE FOR INTENT ONLY. COORDINATE QUANTITY, TYPE AND FINAL LOCATION WITH AUTHORITY HAVING JURISDICTION.
18. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WATERTIGHT CONDITIONS AT ALL ROOF AREAS AT ALL TIMES

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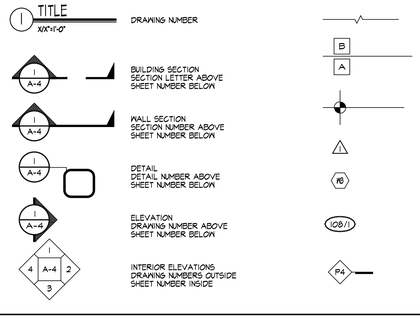
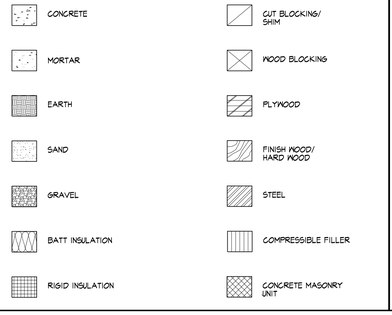
S Y M B O L S



M A T E R I A L S



A B B R E V I A T I O N S

&	AND
@	AT
ADD.	ADDENDUM
ADJ.	ADJACENT
A.F.F.	ABOVE FINISH FLOOR
ALT.	ALTERNATE
APPROX.	APPROXIMATELY
AOR	ARCHITECT OF RECORD
ARCH.	ARCHITECTURAL
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BLKG	BLOCKING
BM.	BEAM
B.O.	BOTTOM OF
BRK.	BRICK
B.S.	BOTH SIDES
BSBD.	BASEBOARD
BTM.	BOTTOM
BTWN.	BETWEEN
B.U.R.	BUILT UP ROOF
CAB.	CABINET
C.TO C.	CENTER TO CENTER
℄	CENTER LINE
C.J.	CEILING JOIST
CL.	CLOSET
CLG.	CEILING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.	CLEAN OUT
COL.	COLUMN
COMP.	COMPACTED
CONC.	CONCRETE
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CRS.	COURSES
C.T.	CERAMIC TILE
CTG.	COATING
CWP	CLEAR WHITE PINE
DET.	DETAIL
DFE	DESIGN FLOOR ELEVATION
DIA.	DIAMETER
DIFF.	DIFFUSER
DIM	DIMENSION
DN.	DOWN
D.L.	DOWN LEADER
DR.	DOOR
DWG.	DRAWING
E.	EAST
E.C.	ELECTRICAL CONTRACTOR
EL.	ELEVATION
ELEC.	ELECTRICAL
ENCL.	ENCLOSURE
E.O.R	ENGINEER OF RECORD
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.S.	EACH SIDE
EXG.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F.C.	FIELD CHECK
F.D.	FLOOR DRAIN
FFE	FINISH FLOOR ELEVATION
FIN.	FINISH
FIX.	FIXTURE
F.J.	FLOOR JOIST
FLOUR.	FLUORESCENT
FLR.	FLOOR
FLR'G	FLOORING
F.O.	FINISH OPENING
F.R.	FIRE RATED
FRPT	FIRE RETARDANT PRESSURE TREATED
FT. (')	FEET
GA.	GAUGE
GALV.	GALVANIZED
GL.	GLASS
GR.	GRADE
GYP. BD.	GYPSUM BOARD
HDW.	HARDWARE
HORIZ.	HORIZONTAL
HT.	HEIGHT
H.V.A.C.	HEATING, VENTILATION AIR-CONDITIONING
I.D.	INSIDE DIAMETER
IN. (")	INCH
INSUL.	INSULATION
INT.	INTERIOR
JT.	JOINT
JSTS.	JOISTS
K.D.	KILN DRIED
K.DN.	KNOCK DOWN
LAM.	LAMINATE
L.H.	LEFT HAND
LT.	LIGHT
LVT	LUXURY VINYL TILE
MAT.	MATERIAL
MAX.	MAXIMUM
M.C.	MASONRY CONTRACTOR
MECH.	MECHANICAL
MEM.	MEMBRANE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MTD.	MOUNTED
MTL.	METAL
N.	NORTH
N.I.C.	NOT IN CONTRACT
NO. #	NUMBER
N.T.S.	NOT TO SCALE
O.A.	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OFD	OVERFLOW DRAIN
OPP.	OPPOSITE
P.C.	PLUMBING CONTRACTOR
PL.	POINT LOAD
PLUMB.	PLUMBING
PLYWD.	PLYWOOD
POL.	POLISHED
PTD.	PAINTED
P.V.C.	POLYVINYL CHLORIDE
R.	RISER
R.C.	ROOFING CONTRACTOR
RAD.	RADIUS
R.D.	ROOF DRAIN
REF.	REFERENCE
REFR.	REFRIGERATOR
REFL.	REFLECTED
REINF.	REINFORCED
REQ.	REQUIRED
R.H.	RIGHT HAND
R.O.	ROUGH OPENING
R.R.	ROOF RAFTER
R.T.	ROOF TRUSS
RTD.	RATED
S.	SOUTH
SECT.	SECTION
SHT.	SHEET
SHWR.	SHOWER
SIM.	SIMILAR
SPEC.	SPECIFICATION
SQ.	SQUARE
S.T.C.	SOUND TRANSMISSION CLASS
SUSP.	SUSPENDED
SYM.	SYMMETRICAL
T.	TREAD
T & G	TONGUE AND GROOVE
TAN.	TANGENT
THK.	THICK
THRU.	THROUGH
TYP.	TYPICAL
UTIL.	UTILITY
UNO	UNLESS NOTED OTHERWISE
V.C.T.	VINYL COMPOSITION TILE
V.I.F.	VERIFY IN FIELD
W.	WEST
WF	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WD.	WOOD
W.P.	WATER PROOF
WWF	WELDED WIRE FABRIC

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GOVERNING CODE 2021 INTERNATIONAL BUILDING CODE - NEW JERSEY EDITION

1. DEAD LOADS
   A. ROOF = 20 PSF
   B. FLOORS = 20 PSF

2. LIVE LOADS
   A. ROOF = 20 PSF (MINIMUM)
   B. FLOORS = 40 PSF

3. SNOW LOADS
   A. GROUND SNOW LOAD = 35.0 PSF
   B. FLAT - ROOF SNOW LOAD = 25.0 PSF
   C. FLAT - ROOF SNOW HEIGHT Hr = 15 INCHES
   D. RAIN ON SNOW SURCHARGE = 0.0 PSF
   E. SNOW EXPOSURE FACTOR CE = 1.0
   F. THERMAL FACTOR CT = 1.0 (MAIN BUILDING AND VESTIBULES); 1.2 (UNHEATED CANOPIES)
   G. SNOW LOAD IMPORTANCE FACTOR, Is = 1.0
   H. ALL APPLICABLE EFFECTS DUE TO SNOW DRIFTING

4. WIND LOADS
   A. BASIC WIND SPEED - 115 mph (ULTIMATE)
   B. WIND LOAD IMPORTANCE FACTOR = 1.0
   C. RISK CATEGORY = II
   D. WIND EXPOSURE CATEGORY B FOR MAIN WIND FORCE RESISTING SYSTEM
   E. WIND EXPOSURE CATEGORY B FOR COMPONENTS AND CLADDING

5. EARTHQUAKE DESIGN DATA
   A. SEISMIC IMPORTANCE FACTOR, Ie = 1.0
   B. SEISMIC RISK CATEGORY = II
   C. MAPPED SPECTRAL RESPONSE ACCELERATIONS
      I. Ss = 0.252
      II. S1 = 0.056
   D. SITE CLASS = D
   E. CUMULATED SPECTRAL RESPONSE COEFFICIENTS
      I. SDS = 0.269
      II. SD1 = 0.090
   F. SEISMIC DESIGN CATEGORY = B
   G. BASIC SEISMIC FORCE-RESISTING SYSTEM: ORDINARY-PLAIN MASONRY SHEAR WALLS

6. DESIGN LOAD COMBINATIONS
   A. D
   B. D + L
   C. D + (Lr OR S OR R)
   D. D + 0.75 (L) + 0.75 (Lr OR S OR R)
   E. D + (0.6W OR 0.7E)
   F. D + 0.75L + 0.75 (0.6W) + 0.75 (Lr OR S OR R)
   G. D + 0.75L + 0.75 (0.7E) + 0.75S
   H. 06D + 06W
   I. 0.6D +0.7E

GENERAL NOTES

1. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "2021 INTERNATIONAL BUILDING CODE - NJ EDITION" AND ALL FEDERAL, STATE AND CITY LAWS, BYLAWS, ORDINANCES AND REGULATIONS IN ANY MANNER AFFECTING THE CONDUCT OF THIS WORK AS WELL AS ALL ORDERS OR DECREES WHICH HAVE BEEN PROMULGATED OR ENACTED BY ANY LEGAL BODIES OR TRIBUNALS HAVING AUTHORITY OR JURISDICTION OVER THE WORK, MATERIALS, EMPLOYEES OR CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PERSONNEL SAFETY ON THE JOBSITE. GUIDELINES FOR CONSTRUCTION SAFETY SHALL BE IN ACCORDANCE WITH, BUT NOT LIMITED TO, THE CONSTRUCTION INDUSTRY OSHA SAFETY AND HEALTH STANDARDS (1926 STANDARDS), AND ANY LOCAL ORDINANCES OR CODES WHICH MAY BE APPLICABLE.
2. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, SPECIFICATIONS AND DETAILS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.
3. ALL COSTS OF INVESTIGATION AND/OR REDESIGN DUE TO THE CONTRACTOR IMPROPER INSTALLATION OF STRUCTURAL ELEMENTS OR OTHER ITEMS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS SHALL BE AT THE CONTRACTORS EXPENSE.
4. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS, ARCHITECTURAL AND MECHANICAL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ARCHITECT PRIOR TO PERFORMING THE WORK.
5. THE CONTRACTOR SHALL VERIFY ALL EXISTING BUILDING INFORMATION SHOWN (DIMENSIONS, ELEVATIONS, ETC.) AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENT. FAILURE TO NOTIFY ARCHITECT/ENGINEER OF UNSATISFACTORY CONDITIONS CONSTITUTES ACCEPTANCE OF UNSATISFACTORY CONDITIONS.
6. IF THE EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY AND PROVIDE A SKETCH OF THE CONDITION WITH HIS PROPOSED MODIFICATION OF THE DETAILS GIVEN ON THE CONTRACT DOCUMENTS. DO NOT COMMENCE WORK UNTIL CONDITION IS RESOLVED AND MODIFICATION IS APPROVED BY THE ARCHITECT.
7. SHOP DRAWINGS FOR ALL STRUCTURAL MATERIALS TO BE SUBMITTED TO ARCHITECT FOR REVIEW PRIOR TO THE START OF FABRICATION OR COMMENCEMENT OF WORK. REVIEW PERIOD SHALL BE A MINIMUM OF TWO (2) WEEKS. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
8. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL CONSTRUCTION CRITERIA, MATERIALS, AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
9. THE CONTRACTOR SHALL COORDINATE PRINCIPAL OPENINGS IN THE STRUCTURE AS INDICATED ON THE CONTRACT DOCUMENTS. REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSETS, ETC. NOT INDICATED. THE LOCATION OF SLEEVES OR OPENINGS IN STRUCTURAL MEMBERS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
10. THE INSPECTION AND TESTING OF ALL SUBGRADE AND COMPACTED EARTHWORK SHALL BE CONDUCTED UNDER THE SUPERVISION OF A QUALIFIED GEOTECHNICAL CONSULTANT. CONTRACTOR SHALL NOTIFY THE ARCHITECT OR STRUCTURAL ENGINEER 24 HOURS PRIOR TO PLACEMENT OF CONCRETE IN THE FOOTINGS. IF UNSUITABLE SUBGRADE SOILS ARE ENCOUNTERED, THE CONTRACTOR SHALL SUBMIT RECOMMENDATIONS PREPARED BY A GEOTECHNICAL CONSULTANT TO THE STRUCTURAL ENGINEER FOR APPROVAL.
11. THE CONTRACTOR SHALL PROVIDE BRACING AS REQUIRED TO MAINTAIN PLUMBNESS AND STABILITY DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE SHORING TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE.
12. THE SLAB-ON-GRADE SHALL BE UNDERLAIN BY A MINIMUM OF SIX INCHES OF STABLE GRANULAR MATERIAL.
13. THE SUBGRADE AND EACH LAYER OF FILL OR BACKFILL SHALL BE COMPACTED TO A DRY DENSITY AT LEAST EQUAL TO 95% OF THE MAXIMUM DRY DENSITY ATTAINED BY THE MODIFIED PROCTOR TEST ASTM D1557.
14. METHODS, PROCEDURES AND THE SEQUENCES (OTHER THAN THAT NOTED ON THE DRAWINGS) OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTION TO MAINTAIN AND INSURE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION AND COORDINATION OF WORK WITH MECHANICAL AND ELECTRICAL WORK.
15. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST.
16. MINOR DETAILS OR INCIDENTAL ITEMS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR A PROPER AND COMPLETE INSTALLATION SHALL BE INCLUDED AS REQUIRED.
17. MISCELLANEOUS WOOD OR COLD FORMED STEEL BLOCKING, FRAMING MEMBERS, ANCHORS, FASTENERS, ETC.. SHALL BE PROVIDED AS REQUIRED WHETHER OR NOT SPECIFICALLY INDICATED ON DRAWINGS.

STRUCTURAL STEEL

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO "THE STEEL CONSTRUCTION MANUAL", FIFTEENTH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION INCLUDING THE 2016 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, THE 2014 RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS AND ANSI/AISC 303-16 CODE OF STANDARD PRACTICE.
2. STRUCTURAL SHAPES & PLATES: ASTM A36, A572 OR A992.
3. GALVANIZED STRUCTURAL STEEL
   A. STRUCTURAL SHAPES AND RODS: ASTM A123.
   B. BOLTS, FASTENERS AND HARDWARE: ASTM A153.
4. CUTS, HOLES, COPING, ETC. REQUIRED FOR OTHER TRADES OR FIELD CONDITIONS SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTTING OR BURNING OF MAIN STRUCTURAL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
5. THE GENERAL CONTRACTOR AND STEEL ERECTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.
6. ALL STEEL SHALL BE PAINTED WITH SHOP STANDARD PRIMER UNLESS NOTED OTHERWISE.
7. STEEL ANGLES AND PLATES ALONG WITH BOLTS AND WASHERS, IN DIRECT CONTACT WITH EXTERIOR FINISH MASONRY, AND ALL EXTERIOR EXPOSED STRUCTURAL STEEL, SHALL BE PAINTED WITH INORGANIC ZINC PRIMER EQUIVALENT TO SOUTHERN COATINGS CHEMTEC 600.
8. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPLICE AND CONNECTION TO BE MADE.
9. PROVIDE LOOSE OR HANGING LINTELS NOT SHOWN ON DRAWINGS AS REQUIRED TO COMPLETE JOB. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. CONTACT STRUCTURAL ENGINEER AS PER ANY DESIGN INFORMATION REQUIRED. FIELD WELD ALL ADJUSTABLE LINTEL CONNECTIONS AFTER FINAL ALIGNMENT.
10. DELETE PAINT ON ALL STEEL TO RECEIVE SPRAYED-ON FIREPROOFING OR CONCRETE ENCASEMENT.
11. ALL DISSIMILAR METALS SHALL BE TREATED OR PROPERLY SEPARATED TO PREVENT GALVANIC AND/OR CORROSIVE EFFECTS.

CAST-IN-PLACE CONCRETE

1. CONCRETE SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-19), AND CONSTRUCTED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE.
2. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE NATURAL SAND FINE AGGREGATE AND NORMAL WEIGHT COARSE AGGREGATES CONFORMING TO ASTM C33, TYPE I PORTLAND CEMENT CONFORMING TO ASTM C150, AND SHALL HAVE THE FOLLOWING COMPRESSIVE STRENGTH (FC') AT 28 DAYS:

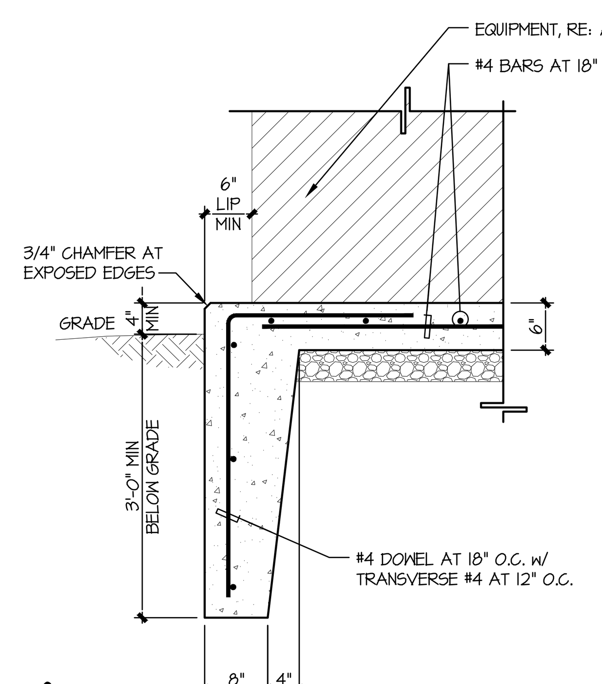
   SLABS ON GRADE............4000 PSI
   FOUNDATIONS......................4000 PSI

   AIR ENTRAINMENT 4% TO 6% IN ALL EXPOSED CONCRETE.
   MAXIMUM AGGREGATE SIZE SHALL BE 1-1/2" FOR FOOTINGS AND 3/4" FOR WALLS AND SLABS
3. THE CONCRETE SUPPLIER SHALL SUBMIT MIX DESIGNS FOR REVIEW. COMPRESSIVE STRENGTH MUST BE SUBSTANTIATED BY A SUITABLE EXPERIENCE RECORD OR BY THE METHOD OF LABORATORY TRIAL BATCHES. THE PERTINENT CRITERIA OF CHAPTER 26 OF ACI 318-14 SHALL APPLY TO THE PROPORTIONING OF MIX DESIGNS AND TO THE ACCEPTANCE OF CONCRETE PRODUCED FOR THE JOB. IF DURING CONSTRUCTION ANY CLASS CONCRETE FAILS TO MEET THE ACCEPTANCE CRITERIA, THE CONTRACTOR SHALL TAKE SUCH STEPS AS ARE DEEMED NECESSARY BY THE STRUCTURAL ENGINEER TO IMPROVE SUBSEQUENT TEST RESULTS AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL ALSO BEAR THE COST OF SPECIAL INVESTIGATION, TESTING, OR REMEDIAL WORK NECESSARY BECAUSE OF EVIDENCE OF LOW STRENGTH OR NON-CONFORMING CONCRETE OR WORKMANSHIP.
4. MAXIMUM WATER/CEMENT RATIOS:

   A. EXTERIOR SLABS 0.44
   B. FOUNDATIONS 0.50
5. CONCRETE SHALL BE NORMAL WEIGHT CONCRETE (144 PCF +) WITH ALL CEMENT CONFORMING TO ASTM C150, TYPE I. MAXIMUM AGGREGATE SIZE SHALL BE 1-1/2" FOR FOOTINGS AND 3/4" FOR WALLS AND SLABS, CONFORMING TO ASTM C330.
6. CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A615/A-04a, GRADE 60. NO. 3 BARS MAY CONFORM TO ASTM A615/A-04a, GRADE 40, UNLESS NOTED OTHERWISE. THE "N" DESIGNATION SHALL BE ACCEPTED IN LIEU OF THE "S" DESIGNATION REQUIREMENT, HOWEVER, OTHER REQUIREMENTS SHALL BE MET. REINFORCEMENT BARS SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER.
7. MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS: (SEE ACI 318-19 SECTION 20.5 FOR CONDITIONS NOT NOTED)

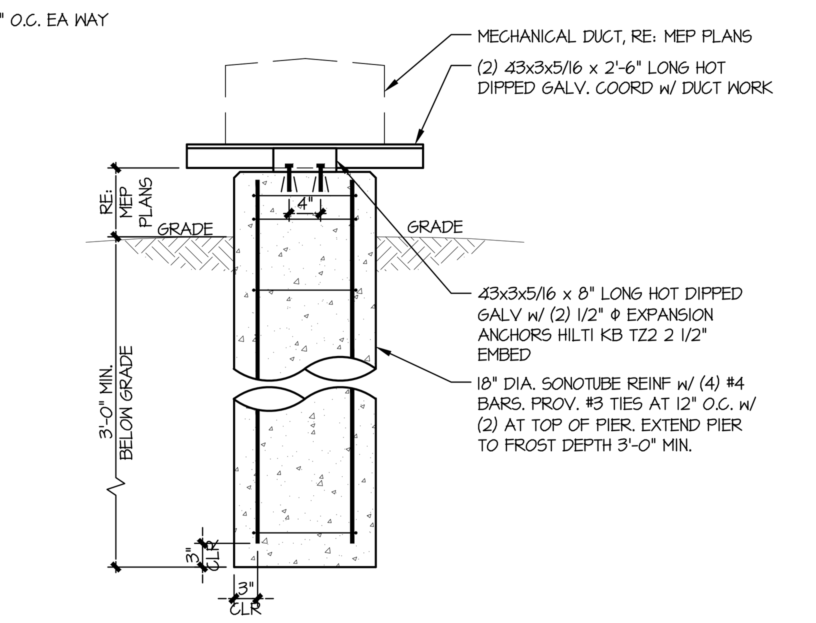
   A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
   B. CONCRETE EXPOSED TO EARTH OR WEATHER
      #6 BARS AND LARGER 2"
      #5 BARS AND SMALLER 1-1/2"
   C. CONCRETE NOT EXPOSED TO WEATHER NOR IN CONTACT WITH GROUND
      SLABS, WALLS, JOISTS
      #11 BARS AND SMALLER 3/4"
      BEAMS AND COLUMNS
      PRIMARY REINFORCEMENT, TIES, STIRRUPS, OR SPIRALS 1-1/2"
8. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS, STIRRUPS OR CHAIRS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS.
9. PLACING OF CONCRETE SHALL NOT START UNTIL THE PLACEMENT OF REINFORCING HAS BEEN APPROVED BY THE INSPECTION AGENCY.
10. PREPARE CONCRETE TEST CYLINDERS FROM EACH DAY'S POUR. CYLINDERS SHALL BE PROPERLY CURED AND STORED. SAMPLE FRESH CONCRETE IN ACCORDANCE WITH ASTM C172.
11. RETAIN LABORATORY TO PROVIDE TESTING SERVICE. SLUMP PER ASTM C143L AIR CONTENT PER ASTM C231 OR C173, CYLINDER TESTS PER ASTM C31 AND C39. ONE SET OF SIX (6) CYLINDERS FOR EACH 50 CUBIC YARDS FOR EACH MIX USED. REPORTS OF ALL TESTS TO BE SUBMITTED TO THE ARCHITECT.
12. MIXING, TRANSPORTING AND PLACING OF CONCRETE SHALL CONFORM TO ACI REQUIREMENTS.
13. WELDING OF REINFORCEMENT BARS, WHEN APPROVED BY THE STRUCTURAL ENGINEER, SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STANDARD D1.1-15 AND D1.4-18. ELECTRODES FOR SHOP AND FIELD WELDING OF REINFORCEMENT BARS SHALL CONFORM TO ASTM A233, CLASS E90XX.
14. HORIZONTAL JOINTING WILL NOT BE PERMITTED IN CONCRETE CONSTRUCTION EXCEPT AS SHOWN ON THE CONTRACT DOCUMENT. VERTICAL JOINTS SHALL OCCUR AT CENTER OF SPANS AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.
15. REPAIR CONCRETE EXHIBITING VOIDS DUE TO SNAP TIES, "HONEYCOMBS," ROCK POCKETS, AND RUNS, SPALLS OR OTHERWISE DAMAGED SURFACES WITH DRY PACK OR CEMENT GROUT, AND FINISH FLUSH WITH ADJOINING SURFACES. AT THE DISCRETION OF THE STRUCTURAL ENGINEER OR AS QUALIFIED BY LAB TESTING, EXCESSIVE HONEYCOMBS OR EXPOSED REINFORCEMENT THAT JEOPARDIZE THE DESIGN, SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.
16. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE INDICATED.
17. CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PROTECT FINISHED SURFACES FROM STAINS OR ABRASIONS. NO FIRE SHALL BE ALLOWED IN DIRECT CONTACT WITH CONCRETE. PROVIDE ADEQUATE PROTECTION AGAINST INJURIOUS ACTION BY SUN OR WIND. FRESH CONCRETE SHALL BE THOROUGHLY PROTECTED FROM HEAVY RAIN, FLOWING WATER, AND MECHANICAL INJURY.
18. SLUMP TESTS SHALL BE MADE PRIOR TO THE ADDITION OF PLASTICIZERS. CONCRETE FOR THE PREPARATION OF TEST CYLINDERS SHALL BE TAKEN FROM THE HOSE END FOR CONCRETE PLACED BY PUMP.
19. WATER SHALL NOT BE ADDED TO THE CONCRETE AT THE JOBSITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE REQUIREMENTS OF THE CONCRETE SUPPLIER AND PUMPER TO ENSURE PUMPABLE AND WORKABLE MIX WITHOUT THE ADDITION OF WATER AT THE JOBSITE. THE USE OF PLASTICIZERS, RETARDANTS AND OTHER ADDITIVES SHALL BE AT THE OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER FOR PROPER USE OF RETARDANTS AND OTHER ADDITIVES. USE OF CALCIUM E CHLORIDE OR OTHER CHLORIDE BEARING SALTS SHALL NOT BE PERMITTED.
20. PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL THE CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE SLAB SURFACE. FINISHING OF SLAB SURFACES SHALL COMPLY WITH ACI RECOMMENDATIONS 302.1R-15 AND 304R-09.
21. PROVIDE 7 DAY CURING IMMEDIATELY AFTER FINISHING USING ONE OF THE FOLLOWING METHODS:

    A. CONTINUOUSLY WATERED BURLAP
    B. WATERPROOF MEMBRANES
    C. SPRAYED-ON LIQUID MEMBRANE
22. REFER TO THE MANUFACTURER'S SPECIFICATIONS FOR REQUIREMENTS. PROTECT THE CONCRETE SURFACE BETWEEN FINISHING OPERATIONS ON HOT, DRY DAYS OR ANY TIME PLASTIC SHRINKAGE CRACKS DEVELOP USING WET BURLAP, PLASTIC MEMBRANES OR FOGGING. PROTECT CONCRETE DECK AT ALL TIMES FROM RAIN, HAIL OR OTHER INJURIOUS EFFECTS.
23. SLABS SHALL BE REINFORCED WITH STEEL BEARS AT -1" FROM TOP OF SLAB. THE BARS SHALL BE SECURELY HELD IN PLACE WITH ADDITIONAL BARS, STIRRUPS OR CHAIRS AS NECESSARY.
24. PROVIDE POUR STOP MATERIAL WHERE NOT INDICATED ON PLAN AS REQUIRED TO COMPLETE JOB.
25. HOT WEATHER CONCRETING: WHEN CONCRETING IS TO BE DONE IN HOT WEATHER CONDITIONS THAT COULD ADVERSELY AFFECT THE PROPERTIES AND SERVICEABILITY OF CONCRETE, PREPARATIONS AND PROCEDURES OUTLINED IN ACI 305R-05 SHOULD BE FOLLOWED UNLESS OTHERWISE NOTED IN CONSTRUCTION SPECIFICATIONS.
26. COLD WEATHER CONCRETING: WHEN CONCRETING IS TO BE DONE IN COLD WEATHER CONDITIONS THAT COULD ADVERSELY AFFECT THE PROPERTIES AND SERVICEABILITY OF CONCRETE, PREPARATIONS AND PROCEDURES OUTLINED IN ACI 306R-10 SHOULD BE FOLLOWED UNLESS OTHERWISE NOTED IN CONSTRUCTION SPECIFICATIONS.



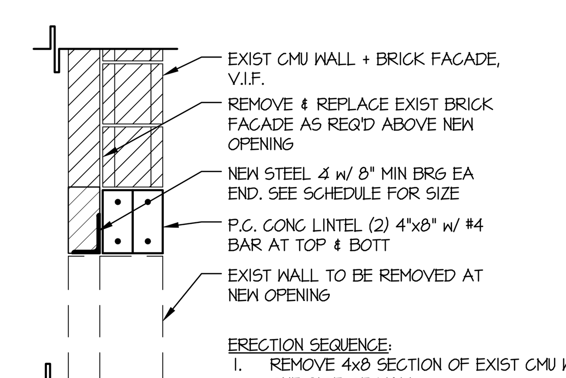
1 DETAIL AT CONCRETE PAD

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



2 DETAIL AT SONOTUBE

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



ERECTION SEQUENCE:
1. REMOVE 4x8 SECTION OF EXIST CMU WALL ON ONE SIDE OF WALL.
2. INSTALL 4x8 PRECAST LINTEL.
3. REMOVE REMAINING SECTION OF EXIST WALL FROM OPPOSITE SIDE 8x8 SECTION MAX., AND INSTALL REMAINING LINTELS.
4. REMOVE EXIST WALL AS REQ'D BENEATH NEW LINTEL FOR NEW OPENING.

3 DETAIL AT NEW WALL OPENING

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

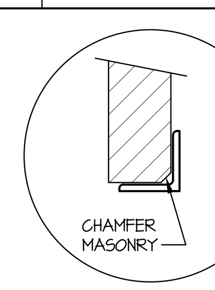
LINTEL SCHEDULE (NON LOAD BEARING WALLS)

WALL THICKNESS	CLEAR SPAN 4'-0" OR LESS	4'-1" TO 5'-4"	5'-5" TO 6'-4"	6'-5" TO 8'-0"
3-5/8"	∠ 3-1/2x3-1/2x1/4	∠ 4x3-1/2x1/4	∠ 5x3-1/2x5/16	∠ 5x3-1/2x5/16
5-5/8"	∠ 5x5x5/16	∠ 5x5x5/16	∠ 5x5x5/16	∠ 5x5x5/16
7-5/8"	(2) ∠ 3-1/2x3-1/2x1/4	(2) ∠ 3-1/2x3-1/2x1/4	(2) ∠ 3-1/2x3-1/2x1/4	(2) ∠ 5x3-1/2x5/16
9-5/8"	(2) ∠ 4x4x1/4	(2) ∠ 4x4x1/4	(2) ∠ 4x4x1/4	(2) ∠ 4x4x3/8
11-5/8"	(2) 5x5x5/16	(2) 5x5x5/16	(2) 5x5x5/16	(2) 5x5x5/16

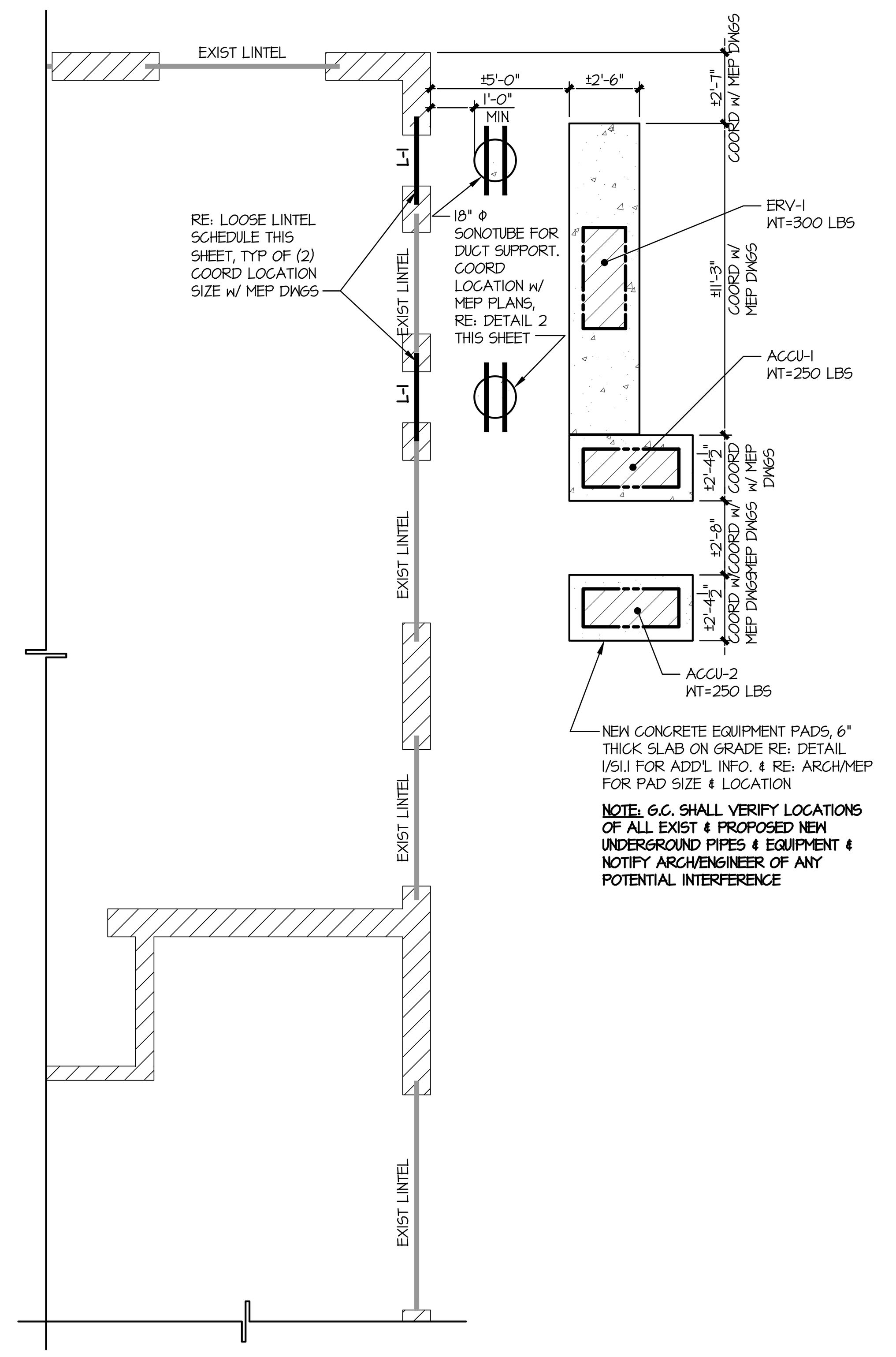
THE GENERAL CONTRACTOR SHALL PROVIDE STEEL LINTELS IN ALL OPENINGS IN MASONRY WALLS.

- AT ALL LOCATIONS WHERE NOTED ON THE PLANS AND/OR WALL SECTIONS. USE LINTEL SIZE INDICATED UNLESS NOTED OTHERWISE ON PLAN.

SIZES TO BE AS INDICATED IN THE SCHEDULE ABOVE, LENGTHS TO BE THE FULL OPENING AND MINIMUM 8" BEARING ON EACH END.



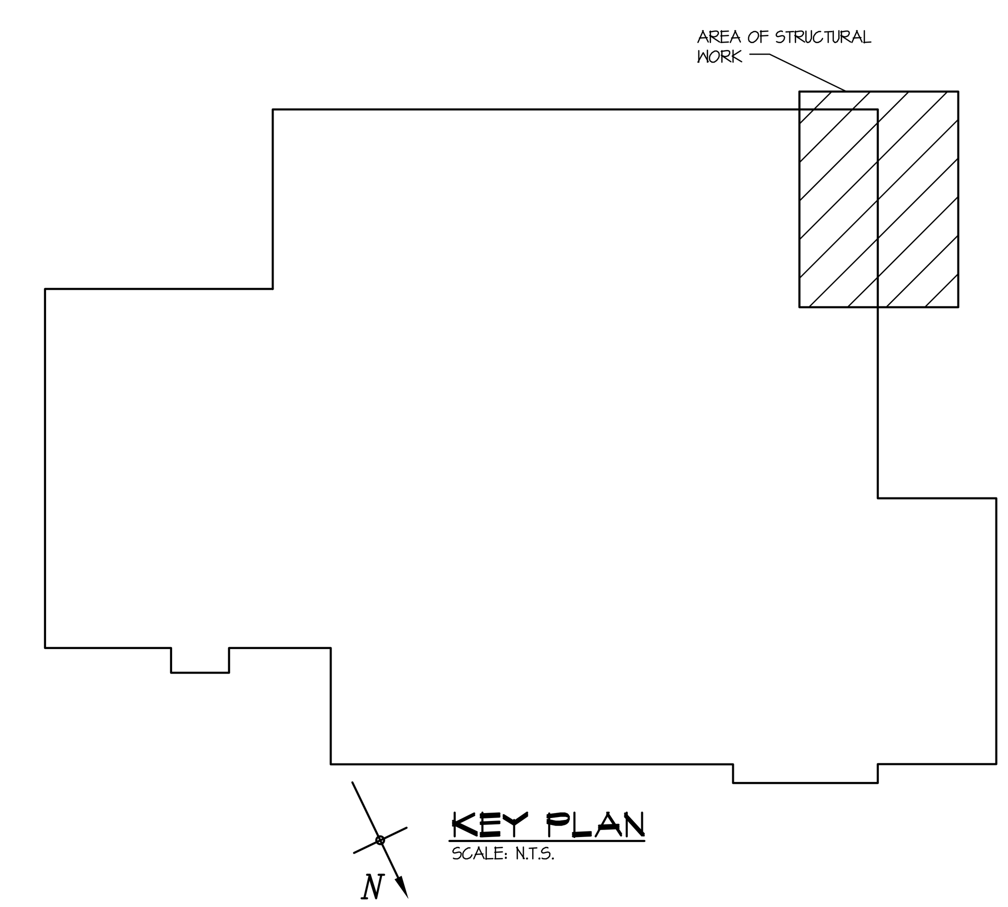
LOOSE LINTEL SCHEDULE



FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

NOTES:
1. THE CONTRACTOR SHALL VERIFY ALL EXISTING BUILDING INFORMATION SHOWN (DIMENSIONS, ELEVATIONS, ETC) AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENT. FAILURE TO NOTIFY ARCHITECT/ENGINEER OF UNSATISFACTORY CONDITIONS CONSTITUTES ACCEPTANCE OF UNSATISFACTORY CONDITIONS.
2. G.C. IS RESPONSIBLE TO FIELD VERIFY EXIST DIMENSIONS AND MEMBER SIZE. CONTACT ENGINEER IMMEDIATELY WITH ANY SIGNIFICANT DIFFERENCES TYPICAL AT ALL FLOORS.
3. PROVIDE TEMPORARY SHORING WHERE REQ'D TO MAINTAIN STABILITY.
4. L-1 DENOTES NEW PRECAST CONCRETE LINTEL WITH STEEL ∠ RE: LINTEL SCHEDULE.



KEY PLAN

SCALE: N.T.S.

Department of Community Affairs
Construction Project Review
Project No: 9050-26
Part. Rel. Interior/Bldg.
building review
Raffaele Persico
Released: 5/22/2026
N.J.S.A. 52:27D-119 ET SEQ., AS AMENDED

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N.Y. LICENSE # 028885

CERTIFICATE OF AUTHORIZATION
No. AC33200

LATRINE ALTERATIONS FOR:
MT HOLLY ARMORY
1670 NJ-38
MT HOLLY, NEW JERSEY 08060
DMA PROJECT NO. MH008

CSI
PROFESSIONAL ENGINEERS
ADDRESS:
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CERTIFICATE OF AUTHORIZATION NO.
24GA28128300
PATRICK M. CRONIN
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NUMBER: GE 45894

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REV.:	DATE:	DESCRIPTION:

GENERAL NOTES,
FLOOR PLAN & DETAILS

PROJECT NO.: 2557 DRAWN BY: SAS

DATE ISSUED: 03/30/26

SHEET NO.:

S1.1

HARDWARE SETS

SET: 1.0
DESCRIPTION: FOR GANG TOILET DOOR

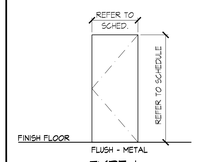
4	HINGE	TA2714 (NRP @ OUT-SWING W/ LOCK)	US26D	MK
1	DOOR STOP	401; 404; 441GU; RIXSON 10 SERIES	US26D	RO
3	SILENCER		608	RO
1	PUSH PLATE	8200 4" X 16" CFC	630	IVE
1	PULL PLATE	8302 6" 4" X 16" CFT 6	630	IVE
1	SURFACE CLOSER	4050A RW/PA	689	LCN
1	MOP PLATE	8400 6" x 1" LDW B-CS	630	IVE
1	KICK PLATE	8400 10" x 2" LDW B-CS	630	IVE

SET: 2.0
DESCRIPTION: S6L W/ PRIVACY LOCK; CLOSER

4	HINGE	TA2714 (NRP @ OUT-SWING W/ LOCK)	US26D	MK
1	PRIVACY LOCK	AU 5402LN	626	YA
1	SURFACE CLOSER	4050A RW/PA	689	LCN
1	KICK PLATE	8400 10" x 2" LDW B-CS	630	IVE
1	MOP PLATE	8400 6" x 1" LDW B-CS	630	IVE
1	DOOR STOP	401; 404; 441GU; RIXSON 10 SERIES	US26D	RO
3	SILENCER		608	RO

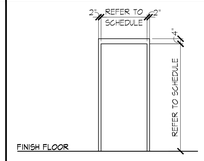
MK=MCKINNEY
YA= YALE
NO=YALE
RO= ROCKWOOD
PE= PEMKO
IVE= IVES

DOOR TYPES



TYPE 1

FRAME TYPES



FIM
MASONRY

DOOR SCHEDULE

DOOR					FRAME		DETAILS			FIRE RATING	HDWR. SET	REMARKS
MARK	WIDTH	HEIGHT	TYPE	MAT.	TYPE	MAT.	HEAD	JAMB	SILL			
100/1	3'-0"	7'-0"	1	HM	FIM	HM	10/A-4.2	6/A-4.2	-	-	1.0	-
100/2	3'-0"	7'-0"	1	HM	FIM	HM	10/A-4.2	6/A-4.2	-	-	2.0	-
100/3	3'-0"	7'-0"	1	HM	FIM	HM	10/A-4.2	6/A-4.2	-	-	1.0	-

DOOR SCHEDULE NOTES

1. PROVIDE LEVER HANDLE HARDWARE AND CLOSERS AT ALL DOORS - FINISH TO BE BRUSHED CHROME, COMMERCIAL GRADE. COORDINATE LOCKING REQUIREMENTS WITH OWNER. ALL LOCKS (NEW) TO BE KEYED TO OWNERS MASTER KEY SYSTEM. ALL LEVER HARDWARE TO MEET ADA REQUIREMENTS.
2. G.C. TO CONFIRM ALL DOOR DIMENSIONS AND QUANTITIES
3. HOLLOW METAL FRAMES TO BE 16 GAUGE (PRIME AND PAINT)
4. VERIFY ALL FRAME PROFILES AND WIDTHS WITH MANUFACTURER
5. REFER TO DOOR SPECIFICATIONS FOR HARDWARE REQUIREMENTS AND SET SCHEDULE.
6. PROVIDE SILENCERS AT ALL HOLLOW METAL FRAMES
7. PROVIDE FLOOR (440 HALF MOON BY ROCKWOOD OR EQUAL) OR WALL STOP (406 BY ROCKWOOD OR EQUAL) AT ALL INSTANCES WHERE DOOR DOES NOT CONTAIN A CLOSER, OR WHERE THE SWING IS ADJACENT (LESS THAN 4") TO PERPENDICULAR WALL.

LEGEND

HM HOLLOW METAL

CEILING LEGEND

- 2'-0"x2'-0" LED RECESSED LIGHT FIXTURE. REFER TO ELECTRICAL DWGS.
- 2'-0"x4'-0" LED RECESSED LIGHT FIXTURE. REFER TO ELECTRICAL DWGS.
- 1'-0"x4'-0" LED RECESSED LIGHT FIXTURE. REFER TO ELECTRICAL DWGS.
- LED HIGH OUTPUT DOWNLIGHT FIXTURE. REFER TO ELECTRICAL DWGS.
- RECESSED HIGH-HAT LIGHT FIXTURE. REFER TO ELECTRICAL DWGS.
- MECHANICAL RETURN DIFFUSER. REFER TO MECHANICAL DRAWINGS
- MECHANICAL SUPPLY DIFFUSER. REFER TO MECHANICAL DRAWINGS
- 2x2 LAYIN ELECTRIC CEILING HEATERS. REFER TO MECHANICAL DWGS.
- EXHAUST FAN. REFER TO MECHANICAL DRAWINGS
- SUSPENDED A.C.T. CEILING SYSTEM
- 8'-0" CEILING HEIGHT A.F.F.
- 5/8" GYP. BD. SUSPENDED CEILING SYSTEM
- XXX-X CEILING TYPE, RE: FINISHED SCHEDULE

REFLECTED CEILING NOTES

1. ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE
2. ALL LIGHTS ARE TO BE CENTERED WITHIN ROOMS UNLESS NOTED OTHERWISE

GENERAL DEMO NOTES

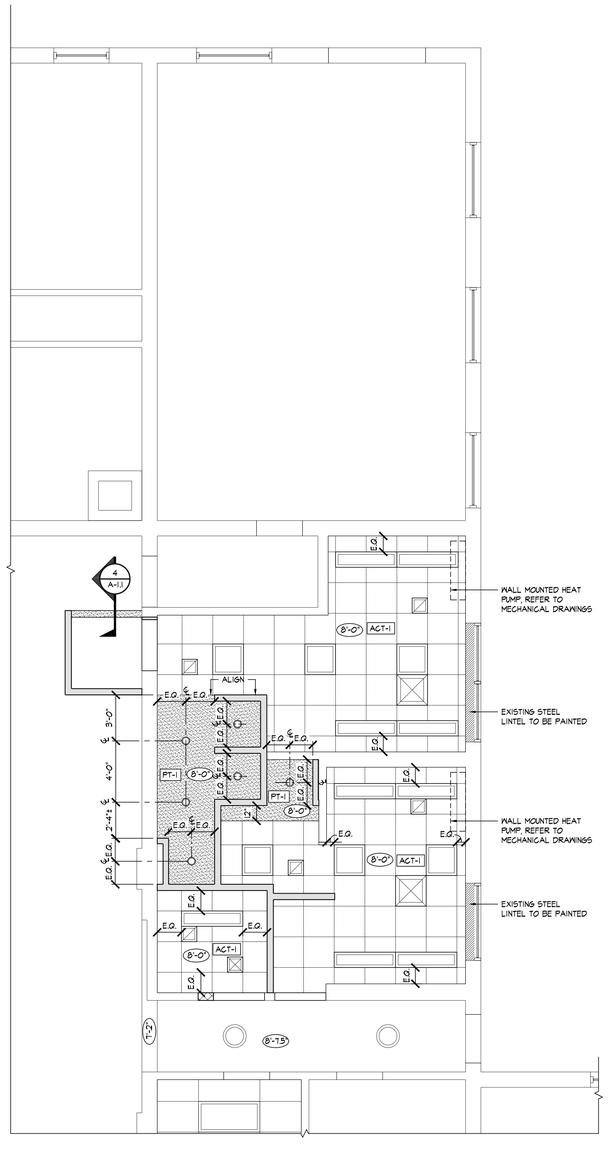
1. VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR TO DEMOLITION.
2. CONTRACTOR TO PROVIDE TEMPORARY SUPPORT FOR ALL STRUCTURAL BEARING MEMBERS PRIOR TO DEMOLITION.
3. CONTRACTOR TO NOTIFY ARCHITECT IF EXISTING CONDITIONS VARY FROM DRAWINGS.
4. PATCH AND REPAIR CONSTRUCTION ADJACENT TO DEMOLITION WITH MATERIALS AND FINISHES TO MATCH (AS REQUIRED).
5. REFER TO MEP DRAWINGS FOR ADDITIONAL ITEMS TO BE DEMOLISHED.

KEYED DEMO NOTES

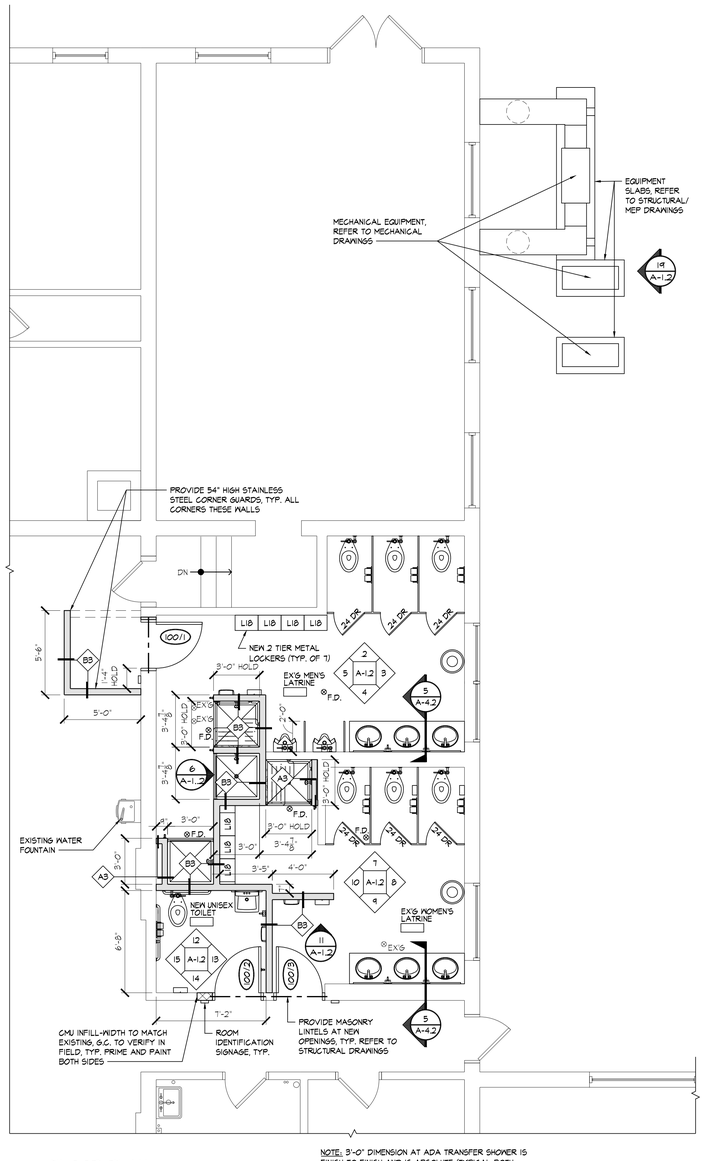
1. REMOVE EXISTING DOOR IN ITS ENTIRETY. PATCH AND REPAIR ADJ. SURFACES AS REQ'D (TYP)
2. REMOVE EXISTING PLUMBING FIXTURES. CAP ABANDONED LINES. PATCH AND REPAIR ADJ. SURFACES AS REQ'D (TYP)
3. REMOVE EXISTING TOILET PARTITIONS IN THEIR ENTIRETY. PATCH AND REPAIR ADJ. SURFACES AS REQ'D (TYP)
4. REMOVE EXISTING FIN TUBE HEATER IN ITS ENTIRETY. PATCH AND REPAIR ADJ. SURFACES AS REQ'D (TYP)
5. REMOVE EXISTING WALL IN ITS ENTIRETY. PATCH AND REPAIR ADJ. SURFACES AS REQ'D (TYP)
6. REMOVE EXISTING WALL FOR INSTALLATION IF NEW DOOR. PATCH AND REPAIR ADJ. SURFACES AS REQ'D (TYP)
7. REMOVE EXISTING GRAB BARS IN THEIR ENTIRETY. PATCH AND REPAIR ADJ. SURFACES AS REQ'D (TYP)
8. REMOVE EXISTING GYPSUM BOARD CEILINGS IN THEIR ENTIRETY. PATCH AND REPAIR ADJ. SURFACES AS REQ'D (TYP)
9. REMOVE TOP LAYER OF EXISTING SLAB IN ORDER TO HAVE A FLUSH ADA SHOWER BASE THAT WILL PITCH TO THE NEW DRAIN. PATCH AND REPAIR ADJ. SURFACES AS REQ'D (TYP)

WALL LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- NEW WALL
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED
- NEW DOOR

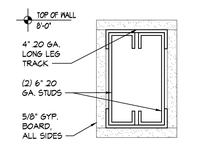


3 REFLECTED CEILING PLAN
1/4"=1'-0"

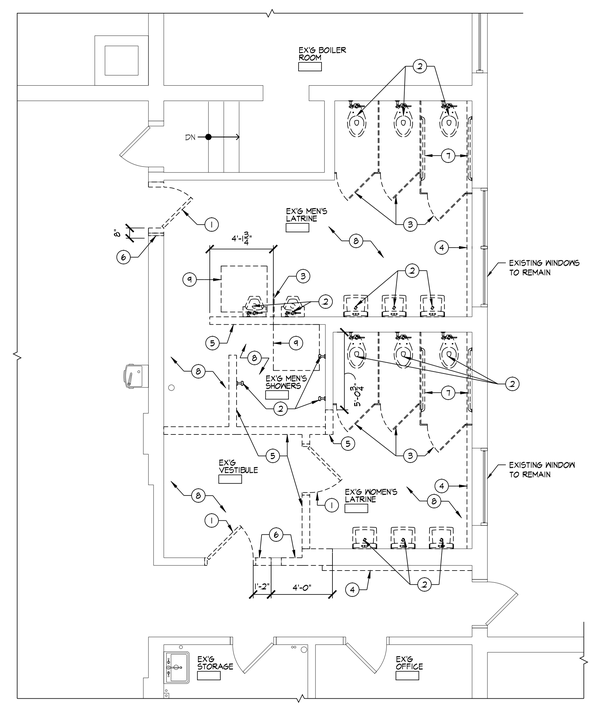


2 FLOOR PLAN
1/4"=1'-0"

NOTE: 3'-0" DIMENSION AT ADA TRANSFER SHOWER IS FINISH TO FINISH AND IS ABSOLUTE (TYPICAL BOTH LATRINES)



4 BOX BEAM DETAIL
3"=1'-0"



1 DEMOLITION PLAN
1/4"=1'-0"

Department of Community Affairs
Construction Project Review
Project No: 9050-26
Part: Rel. Interior/Bldg.
building review
Raffaele Persico
Released: 5/22/2026
N.J.S.A. 52:27D-119 ET SEQ., AS AMENDED

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CERTIFICATE OF AUTHORIZATION
No. AC33200

LATRINE ALTERATIONS FOR:
MT HOLLY ARMORY
1670 NJ-38
MT HOLLY, NEW JERSEY 08060
DMA PROJECT NO. MH008

REV.:	DATE:	DESCRIPTION:

DEMOLITION PLAN, FLOOR PLAN & REFLECTED CEILING PLAN

PROJECT NO.: 2551 DRAWN BY: DD

DATE ISSUED: 3/30/2026

SHEET NO.:

A-1.1

3/24/2026 9:53:30 AM

GENERAL FINISH NOTES

1. REFER TO TRANSFER SHOWER WALL ELEVATION DETAILS FOR LOCATION OF ALL DEVICES, GRAB BARS, ETC.
2. ALL WALLS WITHIN BOTH LATRINES TO RECEIVE FULL HEIGHT CERAMIC WALL TILE (FROM SEAMLESS QUARTZ INTEGRAL BASE TO 4' ABOVE FINISHED CEILINGS.
3. ALL OUTSIDE CORNERS OF CERAMIC TILE WALLS TO RECEIVE ANODIZED ALUMINUM METAL EDGE TRIM, FULL HEIGHT.
4. ALL OUTSIDE CORNERS AT WINDOWS TO RECEIVE ANODIZED ALUMINUM METAL EDGE TRIM.

FINISH SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	STYLE / SERIES	PRODUCT / MODEL NO.	COLOR	REMARKS / INSTRUCTIONS
SQ-1	SEAMLESS QUARTZ FLOORING	REF. SPECIFICATIONS	REF. SPECIFICATIONS	REF. SPECIFICATIONS	GRAY	ENTIRE LATRINE FLOORING
SQ-2	SEAMLESS QUARTZ FLOORING	REF. SPECIFICATIONS	REF. SPECIFICATIONS	REF. SPECIFICATIONS	GRAY	INTEGRAL COVE BASE OF FLOORING
ACT-1	ACOUSTICAL CEILING TILE	REF. SPECIFICATIONS	REF. SPECIFICATIONS	REF. SPECIFICATIONS	WHITE	-
GYP-1	GYPSUM BOARD	REF. SPECIFICATIONS	REF. SPECIFICATIONS	REF SPECIFICATIONS	-	MOISTURE RESISTANT GYPSUM BOARD
PT-1	PAINT	REF. SPECIFICATIONS	REF. SPECIFICATIONS	REF SPECIFICATIONS	WHITE	PAINT FOR GYP. BD. CEILINGS AND SOFFIT
PT-2	PAINT	REF. SPECIFICATIONS	REF. SPECIFICATIONS	REF SPECIFICATIONS	GRAY	PAINT FOR HOLLOW METAL DOORS & FRAMES
CMT-1	CERAMIC WALL TILE	REF. SPECIFICATIONS	REF. SPECIFICATIONS	REF SPECIFICATIONS	WHITE	REFER TO INTERIOR ELEVATIONS FOR EXACT LOCATIONS
SS-1	SOLID SURFACE	REF. SPECIFICATIONS	REF. SPECIFICATIONS	REF SPECIFICATIONS	WHITE	SURFACE PANEL
QA-1	QUARTZ AGGLOMERATE	REF. SPECIFICATIONS	REF. SPECIFICATIONS	REF SPECIFICATIONS	GRAY	SINK COUNTER
PL-1	PLASTIC LAMINATE	REF. SPECIFICATIONS	REF. SPECIFICATIONS	REF SPECIFICATIONS	WHITE	SLOPED APRON & SIDE PANEL

ROOM FINISH KEY

FINISH KEY	
ROOM #	
CLNG	WALL
FLR	BASE

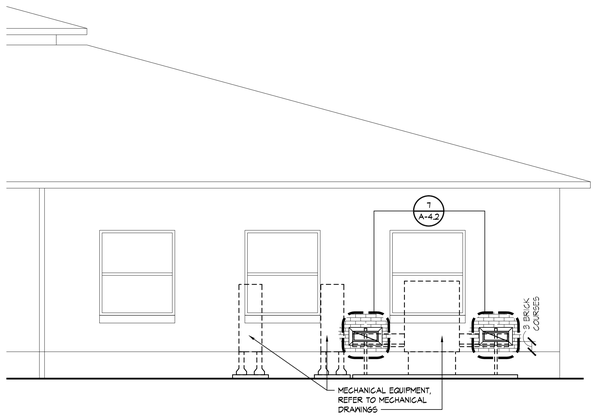
REFER TO FINISH SCHEDULE ON DRAWINGS FOR FINISH SELECTION ADDITIONAL INFO.

TOILET EQUIPMENT SCHEDULE

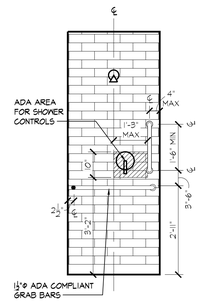
MARK	DESCRIPTION	MODEL #	MANUFACTURER	REMARKS
1	TOILET PAPER DISPENSER	B-7686T	BOBRICK OR APPROVED EQUAL	SUPPLIED AND INSTALLED BY G.C.
2	1-1/2"Ø GRAB BAR - 36"L. - HORIZONTAL	B-6806X36	BOBRICK OR APPROVED EQUAL	SUPPLIED AND INSTALLED BY G.C.
3	1-1/2"Ø GRAB BAR - 42"L. - HORIZONTAL	B-6806X42	BOBRICK OR APPROVED EQUAL	SUPPLIED AND INSTALLED BY G.C.
4	1-1/2"Ø GRAB BAR - 18"L. - VERTICAL	B-6806X18	BOBRICK OR APPROVED EQUAL	SUPPLIED AND INSTALLED BY G.C.
5	SOAP DISPENSER	B-2111	BOBRICK OR APPROVED EQUAL	SUPPLIED AND INSTALLED BY G.C.
6	MIRROR	B-1658 2436	BOBRICK OR APPROVED EQUAL	S.S. FRAME. SUPPLIED AND INSTALLED BY G.C.
7	HIGH VELOCITY HAND DRYER	B-712B	BOBRICK OR APPROVED EQUAL	SUPPLIED AND INSTALLED BY G.C.
8	PAPER TOWEL DISPENSER	B-262	BOBRICK OR APPROVED EQUAL	SUPPLIED AND INSTALLED BY G.C.
9	SHOWER SEAT	B-5181	BOBRICK OR APPROVED EQUAL	SUPPLIED AND INSTALLED BY G.C.
10	SHOWER ROD AND CURTAIN	B-6107	BOBRICK OR APPROVED EQUAL	SUPPLIED AND INSTALLED BY G.C.
11	COAT HOOK	B-682T	BOBRICK OR APPROVED EQUAL	SUPPLIED AND INSTALLED BY G.C.
12	1-1/2"Ø GRAB BAR - TWO WALL - HORIZONTAL	B-6861	BOBRICK OR APPROVED EQUAL	SUPPLIED AND INSTALLED BY G.C.
13	HDPE URINAL PRIVACY SCREEN	WALL MOUNTED	ASI ACCURATE PARTITIONS OR APPROVED EQUAL	SUPPLIED AND INSTALLED BY G.C.
14	HDPE TOILET PARTITIONS	OVERHEAD BRACED	ASI ACCURATE PARTITIONS OR APPROVED EQUAL	SUPPLIED AND INSTALLED BY G.C.
15	TRASH RECEPTACLE	B-2400	BOBRICK OR APPROVED EQUAL	SUPPLIED AND INSTALLED BY G.C.
16	SANITARY NAPKIN DISPENSER	B-270	BOBRICK OR APPROVED EQUAL	SUPPLIED AND INSTALLED BY G.C.

EQUIPMENT NOTES

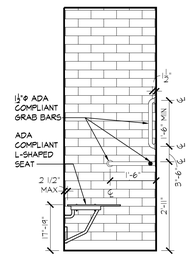
1. ALL EXPOSED PIPES UNDER SINKS IN HANDICAPPED ACCESSIBLE TOILET ROOMS TO BE PROTECTED WITH ADA COMPLIANT PIPE JACKETS
2. PROVIDE ADA PULL, CLOSER, COAT HOOK AND LATCH AT ALL TOILET PARTITIONS
3. PROVIDE SOLID BLOCKING IN WALL FOR ALL WALL MOUNTED EQUIPMENT
4. ALL TOILET EQUIPMENT/PRODUCT DATA TO BE SUBMITTED TO ARCHITECT FOR REVIEW AND APPROVAL
5. REFER TO G-1.0 FOR TYPICAL MOUNTING HEIGHTS.



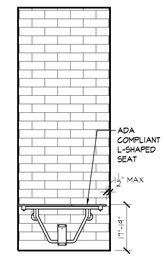
19 EXTERIOR ELEVATION
1/4"=1'-0"



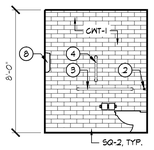
18 TYP. CONTROL WALL ELEV.
1/2"=1'-0"



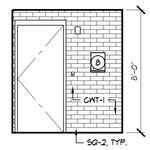
17 TYP. BACK WALL ELEV.
1/2"=1'-0"



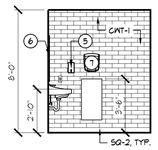
16 TYP. SEAT WALL ELEV.
1/2"=1'-0"



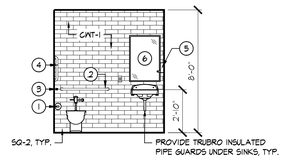
15 INTERIOR ELEVATION
1/4"=1'-0"



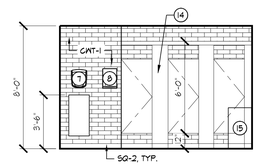
14 INTERIOR ELEVATION
1/4"=1'-0"



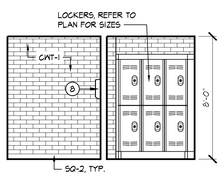
13 INTERIOR ELEVATION
1/4"=1'-0"



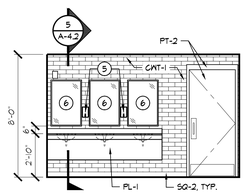
12 INTERIOR ELEVATION
1/4"=1'-0"



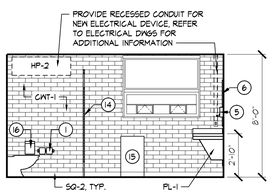
11 INTERIOR ELEVATION
1/4"=1'-0"



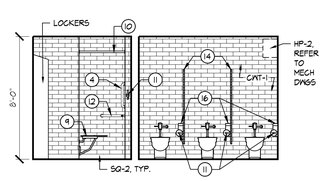
10 INTERIOR ELEVATION
1/4"=1'-0"



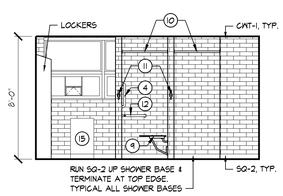
9 INTERIOR ELEVATION
1/4"=1'-0"



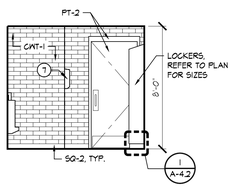
8 INTERIOR ELEVATION
1/4"=1'-0"



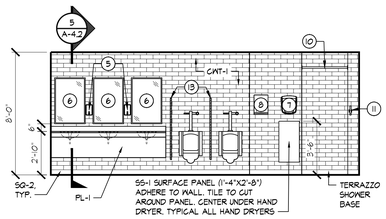
7 INTERIOR ELEVATION
1/4"=1'-0"



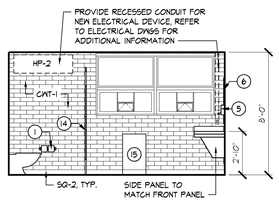
6 INTERIOR ELEVATION
1/4"=1'-0"



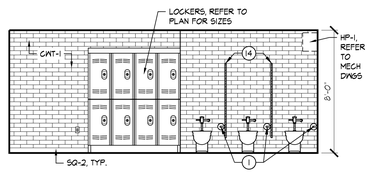
5 INTERIOR ELEVATION
1/4"=1'-0"



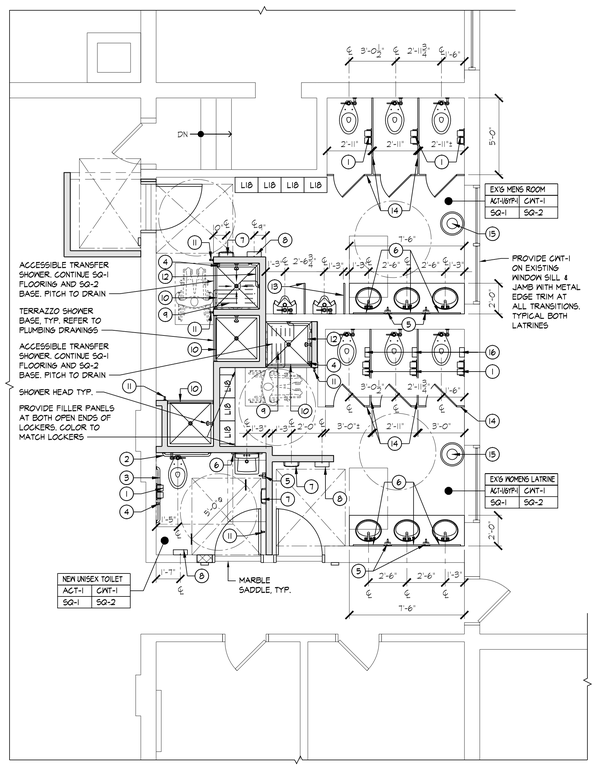
4 INTERIOR ELEVATION
1/4"=1'-0"



3 INTERIOR ELEVATION
1/4"=1'-0"



2 INTERIOR ELEVATION
1/4"=1'-0"



1 FINISH/ FIXTURE PLAN
1/4"=1'-0"

Department of Community Affairs
Construction Project Review
Project No: 9050-26
Part: Ref. Interior/Bldg.
building review
Raffaele Persico
Released: 5/22/2026
N.J.S.A. 52:27D-119 ET SEQ., AS AMENDED

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NJ. LICENSE # AI 14550
N.Y. LICENSE # 028885
CERTIFICATE OF AUTHORIZATION
No. AC33200

LATRINE ALTERATIONS FOR:
MT HOLLY ARMORY
1670 NJ-38
MT HOLLY, NEW JERSEY 08060
DMA PROJECT NO. MH008

REV.:	DATE:	DESCRIPTION:

FINISH/ FIXTURE PLAN & INTERIOR ELEVATIONS

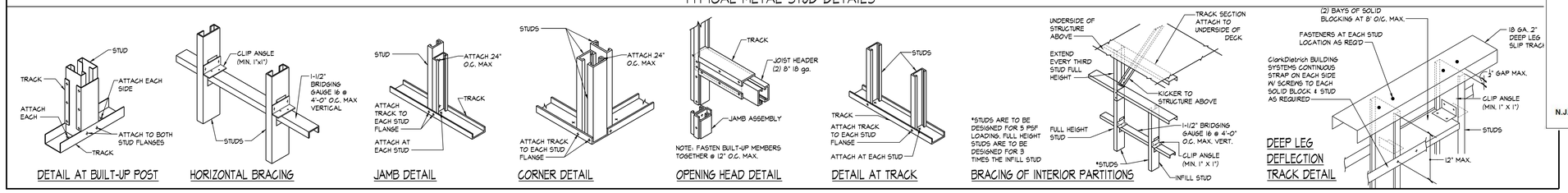
PROJECT NO.: 2557 | DRAWN BY: DD

DATE ISSUED: 3/30/2026

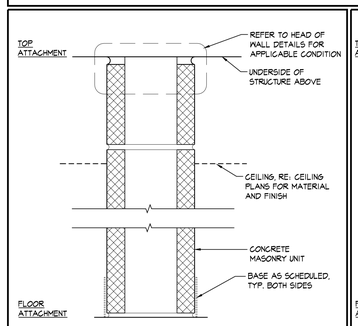
SHEET NO.:
A-1.2

3/24/2026 9:53:43 AM

TYPICAL METAL STUD DETAILS

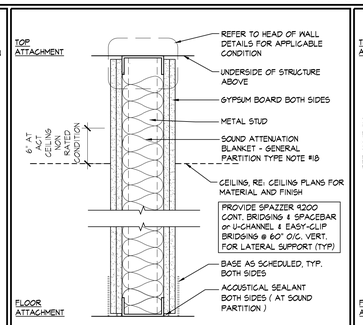


PARTITION TYPES



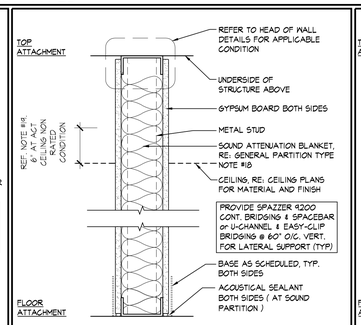
D CMU PARTITION

PARTITION TAG	UNIT SIZE	DETAIL HEAD OF WALL	FIRE RATING	FIRE TEST	STC RATING	REMARKS
D4	3 5/8	-	-	-		
D6	5 5/8	-	-	-		
D8	7 5/8	-	-	-		
D10	9 5/8	-	-	-		
D12	11 5/8	-	-	-		
D8X	7 5/8	-	2HR	U905		



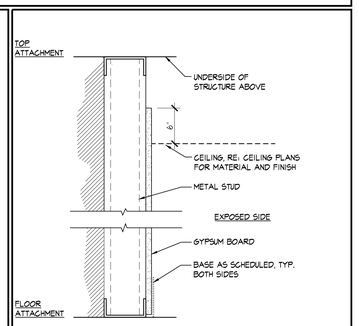
C METAL STUD PARTITION

PARTITION TAG	FRAMING SPACING	STUD SIZE	INSUL. SOUND ATT. THICK.	DETAIL HEAD OF WALL	FIRE RATING	FIRE TEST	STC RATING	REMARKS
C1	16	1 5/8	-	-	-	-	-	
C2	16	2 1/2	-	-	-	-	-	
C3	16	3 5/8	-	-	-	-	-	
C6	16	6	-	-	-	-	-	
C3X	16	3 5/8	3 1/2	-	2 HR	U411	50	



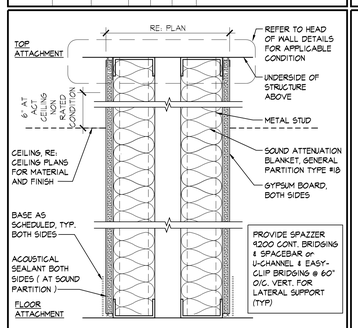
B METAL STUD PARTITION

PARTITION TAG	FRAMING SPACING	STUD SIZE	INSUL. SOUND ATT. THICK.	DETAIL HEAD OF WALL	FIRE RATING	FIRE TEST	STC RATING	REMARKS
B1	16	1 5/8	-	-	-	-	-	
B2	16	2 1/2	-	-	-	-	-	
B3	16	3 5/8	-	-	-	-	-	18 MIL
B6	16	6	-	-	-	-	-	
B2X	16	2 1/2	2 1/2	-	1 HR	U494	39	
B3X	16	3 5/8	3 1/2	-	1 HR	U465	43	
B6X	16	6	6	-	1 HR	U419	51	



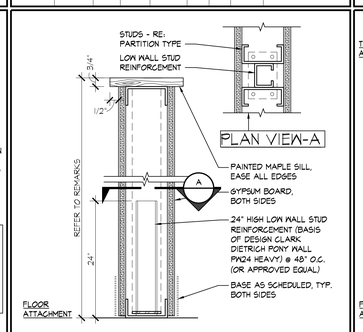
A FURRING METAL STUD PARTITION

PARTITION TAG	FRAMING SPACING	STUD SIZE	INSUL. SOUND ATT. THICK.	DETAIL HEAD OF WALL	STC RATING	REMARKS
A0	16	7/8	-	-		
A1	16	1 5/8	-	-		
A2	16	2 1/2	-	-		
A3	16	3 5/8	-	-		18 MIL
A6	16	6	-	-		



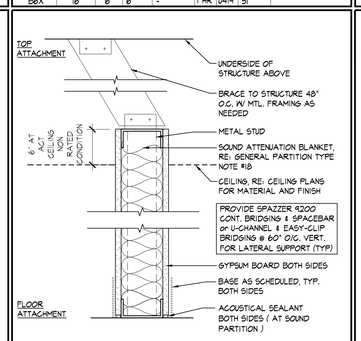
F CHASE PARTITION

PARTITION TAG	FRAMING SPACING	STUD SIZE	INSUL. SOUND ATT. THICK.	DETAIL HEAD OF WALL	FIRE RATING	FIRE TEST	STC RATING	REMARKS
F1	16	1 5/8	-	-	-	-	-	
F2	16	2 1/2	-	-	-	-	-	
F3	16	3 5/8	-	-	-	-	-	
F6	16	6	-	-	-	-	-	
F2X	16	2 1/2	3 1/2	-	1 HR	U488	57	



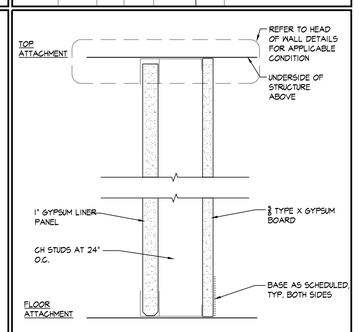
E PARTIAL HEIGHT PARTITION

PARTITION TAG	FRAMING SPACING	STUD SIZE	REMARKS
E3	16	3 5/8	-
E6	16	6	-



G METAL STUD PARTITION

PARTITION TAG	FRAMING SPACING	STUD SIZE	INSUL. SOUND ATT. THICK.	STC	REMARKS
G1	16	1 5/8	-	-	
G2	16	2 1/2	-	-	
G3	16	3 5/8	-	-	
G6	16	6	-	-	



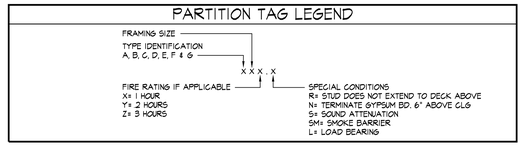
S SHAFTWALL PARTITION

PARTITION TAG	FRAMING SPACING	STUD SIZE	INSUL. SOUND ATT.	DETAIL HEAD OF WALL	FIRE RATING	FIRE TEST	STC RATING	REMARKS
S2	24	2 1/2			1 HR	U415	33	
S4	24	4			1 HR	U415	39	

GENERAL PARTITION TYPE NOTES

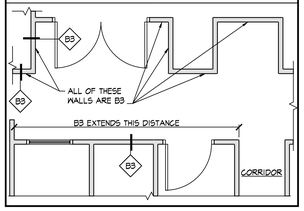
1. ALL PARTITION TYPES THIS SHEET MAY NOT BE USED. REFER TO PLANS FOR ALL APPLICABLE TYPES USED.
2. PROVIDE 5/8" THICK TYPE 'X' GYPSUM WALL BOARD AT ALL LOCATIONS UNLESS OTHERWISE NOTED. (IN REMARKS ON PARTITION TYPE)
3. ALL METAL STUD PARTITIONS TO EXTEND TO FLOOR/ ROOF DECK ABOVE, UNLESS OTHERWISE NOTED.
4. METAL STUD MUST BE SIZED & SPACES SO AS NOT TO EXCEED DESIGN CRITERIA, MIN. STUD GAUGE= 25, PARTITIONS SHALL BE LIMITED IN L/240 HEIGHT IN ACCORDANCE WITH WITH ASTM C754. REFER TO SPECIFICATIONS FOR ADD'L INFO.
5. PROVIDE 5/8" TILE BACKER BOARD AT ALL CERAMIC TILE WALL INSTALLATIONS AT TUB, SHOWER, KITCHENS AND PARTITIONS IN AREAS OF MOISTURE PRODUCING EQUIPMENT OR FIXTURES.
6. PROVIDE FRAMING SPACES AT 12" O.C. MAX. AT ALL LOCATIONS WHERE PARTITIONS SUPPORT WALL CABINETS, AND 16" MAX. AT ALL CERAMIC TILE OR STONE VENEER WALLS.
5. PROVIDE FIRE RATED SEALANT TO BOTH SIDES OF ENTIRE PERIMETER OF FIRE RATED WALLS AND AROUND ALL PENETRATIONS TO MEET APPLICABLE UL. LISTING REQUIREMENTS OF WALL BEING PENETRATED.
6. FASTENERS FOR ALL RUNNERS AND TRACKS SHALL BE AS PER MANUF. RECOMMENDATIONS BASED ON STUD SIZE, HEIGHT AND SPACING.
7. BOTTOM EDGES OF WALLBOARD SHALL BE RAISED 1/4" ABOVE THE FLOOR.
8. AT SOUND ATTENUATION WALLS, PROVIDE ACOUSTICAL CAULKING AROUND ALL PERIMETER EDGES AND PENETRATIONS, OFFSET ELECTRICAL DEVICES 16" MIN. (SEPARATE STUD CAVITIES)
9. REFER TO FINISH SCHEDULE/PLANS FOR LOCATION AND TYPE OF FINISH MATERIALS FOR WALL TYPES INDICATING DIFFERENT FINISHES ON EACH SIDE OF WALL.
10. REFER TO HEAD OF WALL DETAILS FOR ALL TOP OF PARTITION DETAILING.
11. CONTRACTOR TO STAGGER ALL ELECTRICAL, COMMUNICATION, TELEPHONE AND OTHER SIMILAR OUTLET BOXES AT MIN. OF 12" O.C. IN FIRE RATED WALLS.
12. PROVIDE IN-WALL BLOCKING FOR CABINETRY, TOILET ACCESSORIES, CLOSET SHELVING, MILLWORK, WALL STOPS, ARTWORK, WALL BUMPERS/GUARDS, DRAPERY LOCATIONS, STONEWORK, GRAB BARS, MODULAR OFFICE WALLS AND OTHER SIMILAR CONDITIONS.
13. DEFLECTION TRACKS TO BE PROVIDED AT TOP RUNNERS OF ALL METAL STUD PARTITIONS THAT EXTEND TO UNDERSIDE OF STRUCTURAL DECK. TRACK MUST BE DESIGNED TO ALLOW UP TO 1/2" DEFLECTION, UNLESS OTHERWISE NOTED.
14. ALL SMOKE AND FIRE RATED PARTITIONS MUST BE IDENTIFIED W/ PAINTED STENCILS ABOVE CEILINGS.
15. AT RATED ASSEMBLIES PROVIDE FIRE TREATED WOOD BLOCKING OR PLYWOOD INSIDE WALLS AND OTHER CONCEALED SPACES.
16. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PARTITION INSTALLATION.
17. ALL EXPOSED TOP EDGES OF WALLS OR WHERE WALL ABUTS A DIFFERENT MATERIAL OR OTHER CONCRETE STRUCTURE TO HAVE A ZIP BEAD FINISH.
18. IF SOUND ATTENUATION IS REQUIRED PER PARTITION TAG PROVIDE ATTENUATION THICKNESS TO FILL STUD CAVITY.
19. DEFAULT CONDITION IS TO EXTEND GYPSUM BOARD 6" ABOVE FINISHED CEILING BUT DEFER TO THE REMARKS FOR EXTENTS OF GYPSUM FOR OTHER CONDITIONS.
20. TYPICAL METAL STUD DETAILS, TOP OF THIS SHEET, SHALL BE REFERENCED WHEN APPLICABLE. NOT ALL DETAILS ARE USED. CONTRACTOR TO APPLY DETAILS WHEN REQUIRED

PARTITION TAG LEGEND

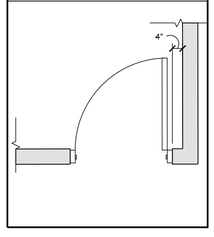


DIAGRAMS AND NOTES

1. PARTITION TYPES ARE INDICATED IN SQUARE BOX SYMBOLS LINKED TO THE WALL THEY DESCRIBE.
2. THE PARTITION TYPE EXTENDS THE ENTIRE LENGTH OF THE WALL WHERE IT IS SHOWN, ACROSS DOORS, WINDOWS AND MINOR PROJECTIONS OR RECESSES (E.G. AT WATER FOUNTAINS). THE PARTITION TYPE ENDS AT THE INTERSECTION WITH ANOTHER SPACE, DEFINED BY AN INSIDE OR OUTSIDE CORNER, INCLUDING INTERVENING CORRIDORS, UNLESS OTHERWISE SPECIFICALLY NOTED ON THE DRAWINGS. SEE EXAMPLES BELOW.
3. THE INDICATED PARTITION TYPES INCLUDE ALL SIDES OF MINOR PROJECTIONS OR ALCOVES, SUCH AS RECESSED DOORS, HEADS OVER DOORS AND WINDOWS. SEE EXAMPLES BELOW.



TYPICAL DOOR DETAIL



Department of Community Affairs
Construction Project Review
Project No: 9050-26
Part: Rel. Interior/Bldg.
building review
Raffaele Persico
Released: 5/22/2026
N.J.S.A. 52:27D-119 ET SEQ., AS AMENDED

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CERTIFICATE OF AUTHORIZATION
No. AC33200

LATRINE ALTERATIONS FOR:
MT HOLLY ARMORY
1670 NJ-38
MT HOLLY, NEW JERSEY 08060
DMA PROJECT NO. MH008

REV.:	DATE:	DESCRIPTION:

TYPICAL PARTITION TYPES & DETAILS

PROJECT NO.: 2557 | DRAWN BY: DD

DATE ISSUED: 3/30/2026

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Department of Community Affairs
Construction Project Review
Project No: 9050-26
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building review
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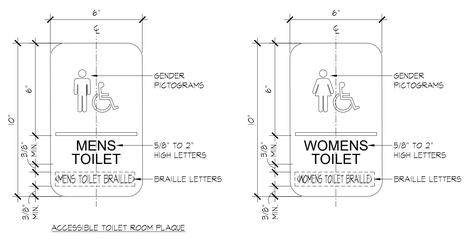
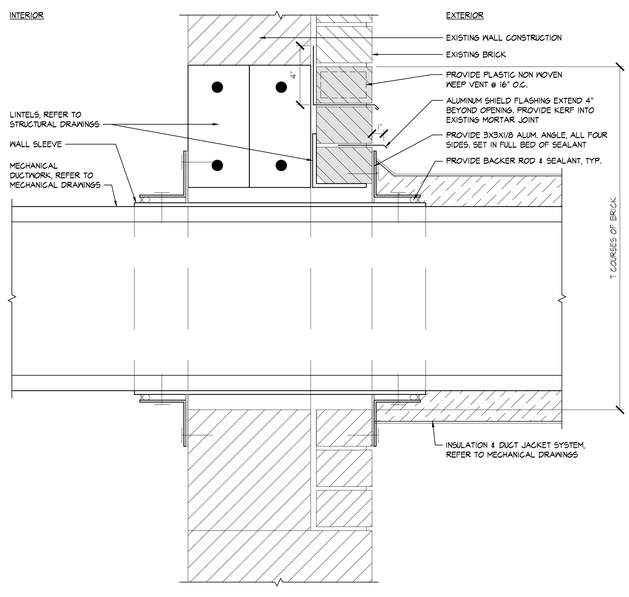


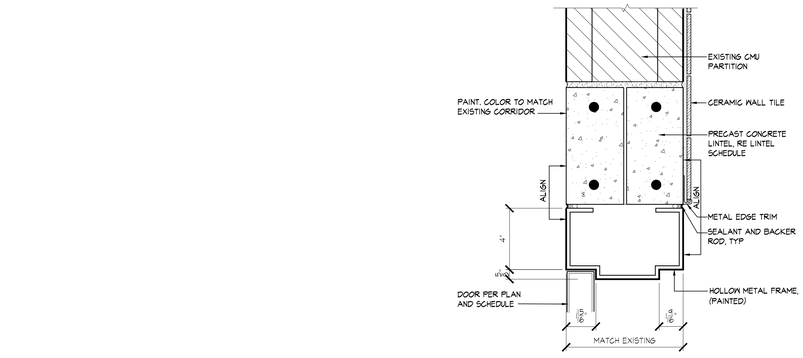
ACCESSIBLE TOILET ROOM PLAQUE

SIGNAGE NOTES:
SIGN, TEXT BRAILLE AND PICTOGRAM CHARACTERISTICS ARE DESCRIBED IN ANSI/ICC A117.1-2017
SIGNAGE TO BE MOUNTED ON THE LATCH SIDE OF SINGLE DOORS, UNLESS OTHERWISE NOTED
REFER TO TYPICAL MOUNTING HEIGHTS DIAGRAM FOR ADDITIONAL INFORMATION

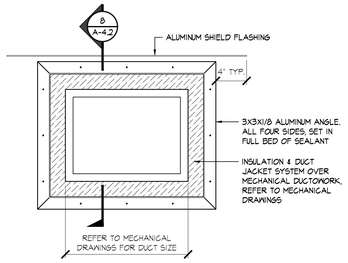
9 TYPICAL SIGNAGE DETAIL
3"=1'-0"



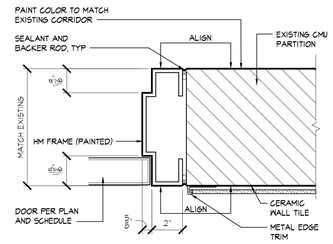
8 SECTION THRU OUTSIDE WALL AT DUCT PENETRATION
3"=1'-0"



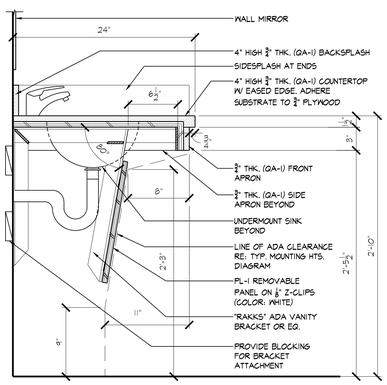
10 DOOR HEAD DETAIL
3"=1'-0"



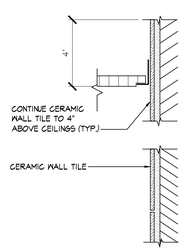
7 DUCT PENETRATION ELEVATION DETAIL
1-1/2"=1'-0"



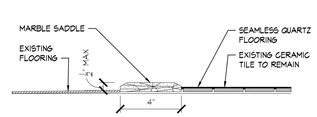
6 DOOR JAMB DETAIL
3"=1'-0"



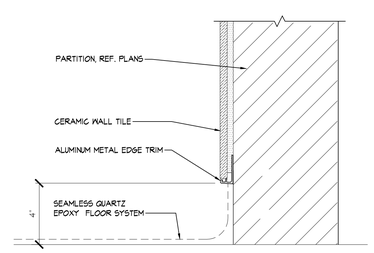
5 STANDARD COUNTER DETAIL
1-1/2"=1'-0"



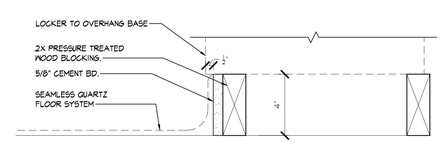
4 TYPICAL TILE DETAIL
3"=1'-0"



3 SADDLE DETAIL
3"=1'-0"



2 TYPICAL COVE BASE DETAIL
3"=1'-0"



1 TYPICAL LOCKER BASE DETAIL
3"=1'-0"

REV.:	DATE:	DESCRIPTION:

DETAILS

PROJECT NO.: 2557 | DRAWN BY: DD

DATE ISSUED: 3/30/2026

SHEET NO.:
A-4.2

3/24/2026 9:53:55 AM

PROJECT GENERAL NOTES

1. MOTOR CONTROLLERS, MOTOR STARTERS & DISCONNECTS SHALL BE FURNISHED BY DIVISION 23 AND INSTALLED UNDER DIVISION 26.
2. POWER WIRING TO MECHANICAL EQUIPMENT, MOTOR CONTROLLERS AND CONTROL PANELS SHALL BE PROVIDED UNDER DIVISION 26.
3. HVAC CONTROL WIRING SHALL BE PROVIDED UNDER DIVISION 23.
4. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE WITH LOCKABLE HANDLE. DISCONNECTS FOR ALL ELECTRICALLY DRIVEN HVAC EQUIPMENT SHALL BE FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
5. STARTERS SHALL BE NEMA COMBINATION MAGNETIC MOTOR STARTERS SIZED PER MOTOR HORSE POWER. COORDINATE MOTOR STARTER TYPE AND FEATURES WITH THE REQUIREMENTS OF THE MECHANICAL EQUIPMENT AND THE CONTROL SYSTEM. PROVIDE OVERLOAD, UNDER VOLTAGE AND PHASE LOSS PROTECTION IN ALL STARTERS. STARTERS FOR MOTORS 50 HORSE POWER AND LARGER SHALL BE REDUCED VOLTAGE TYPE.
6. DUCTWORK AND PIPING LAYOUTS ARE SCHEMATIC DIAGRAMS AND ARE INTENDED TO SHOW GENERAL ARRANGEMENT, SIZE AND CAPACITY AND DO NOT INDICATE WHICH PIPE OR DUCT IS ABOVE OR BELOW THE OTHER. ALL OFFSETS ARE NOT NECESSARILY SHOWN, CONTRACTOR SHALL ARRANGE AND COORDINATE THE WORK, FURNISH NECESSARY OFFSETS, VALVES, VENTS, AND FITTINGS TO AVOID CONFLICT WITH OTHER MECHANICAL AND ELECTRICAL SERVICES AND STRUCTURAL AND ARCHITECTURAL ELEMENTS WITHOUT ADDITIONAL COST TO THE OWNER. IF AREAS OF CONFLICT ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED AND CONTRACTORS RECOMMENDATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE WORK HAS BEGUN.
7. ENTIRE INSTALLATION SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND OTHER AUTHORITIES HAVING JURISDICTION.
8. CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND SHALL ARRANGE ALL REQUIRED INSPECTIONS.
9. PROPER FIRE PROTECTION MEASURES, SATISFACTORY TO THE LOCAL FIRE DEPARTMENT SHALL BE TAKEN WHEN WELDING OR CUTTING WITH TORCHES OR ELECTRIC ARC.
10. PROVIDE FLEXIBLE CONNECTIONS ON ALL ROTATING EQUIPMENT.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY MISCELLANEOUS STEEL FOR THE SUPPORT OF ALL EQUIPMENT, PIPING, CONDUIT, AND DUCTWORK. SUSPEND FROM SLAB, STEEL, WALL, OR TRUSS WORK.
12. BALANCE AND CERTIFY ALL AIR AND WATER SYSTEMS AS PER SPECIFICATIONS.
13. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES AND THE EXISTING FIELD CONDITIONS.
14. PROVIDE SHUT OFF VALVES AT ALL BRANCH PIPING CONNECTIONS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF SLAB REQUIRED AS A RESULT OF HIS WORK.
16. MINIMUM SIZE OF ALL CONDENSATE DRAIN PIPING SHALL BE 3/4". MINIMUM SLOPE SHALL BE 1/8" PER FOOT.
17. ALL MECHANICAL CONTROLS (THERMOSTATS, ETC.) SHALL BE FURNISHED AND INSTALLED AS PER BARRIER-FREE SUB-CODE OF THE LOCAL GOVERNING CODE.
18. UNLESS OTHER WISE NOTED ON THE DRAWINGS, ALL MECHANICAL EQUIPMENT SHALL BE MOUNTED ON VIBRATION ISOLATORS TO PREVENT THE TRANSMISSION OF SOUND TO THE BUILDING STRUCTURE. VIBRATION ISOLATORS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND ON ACTUAL WEIGHT DISTRIBUTION OF THE EQUIPMENT FURNISHED. DEFLECTIONS SHALL BE AS NOTED ON THE EQUIPMENT SHOP DRAWING SUBMITTALS.
19. ALL CONDENSATE DRAIN LINES SHALL COMPLY WITH NSPC.
20. ALL PENETRATIONS OF FLOORS (WHETHER OR NOT FIRE RESISTANCE RATED) AND ALL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH A THROUGH PENETRATION PROTECTION SYSTEM (FIRE STOPPING). EACH THROUGH-PENETRATION PROTECTION SYSTEM SHALL BE TESTED IN ACCORDANCE WITH ASTM E814 AND BE LISTED FOR THE TYPE OF FLOOR OR WALL ASSEMBLY PENETRATED AND THE TYPE OF PROTECTION SYSTEM. REFER TO SECTION OF THE SPECIFICATION FOR ADDITIONAL INFORMATION.
21. ALL REMOVED EQUIPMENT, MATERIAL AND DEBRIS SHALL BE LEGALLY DISPOSED OF BY THIS CONTRACTOR.
22. CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL DEVICES WILL BE INSTALLED IN A LOCATION WHICH AFFORDS ACCESSIBILITY FOR MAINTENANCE AND REPAIR. COORDINATE INSTALLATION AMONG ALL TRADES TO AVOID INTERFERENCE, AND LOCATE EQUIPMENT TO PROVIDE CLEARANCE OR EXCEED THOSE RECOMMENDED BY THE MANUFACTURER.
23. INSTALL ALL DIELECTRIC UNIONS IN A MANNER WHICH MAKE THEM READILY ACCESSIBLE FOR FUTURE REPAIR OR REPLACEMENT.
24. CONTRACTOR SHALL DRAIN AND REFILL ALL PIPING AS REQUIRED.
25. FURNISH LOCAL DISCONNECT SWITCHES FOR ALL ELECTRICALLY DRIVEN HVAC EQUIPMENT. DISCONNECT SWITCH SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
26. CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID.
27. ALL INTERIOR PIPING SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE.
28. ALL CONTROL WIRING SHALL BE INSTALLED IN CONDUIT IF RUN IN MECH ROOM OR OPEN TO DAMAGE. WIRING ABOVE CEILING OR CONCEALED LOCATIONS (SAFE FROM DAMAGE) CAN BE ROUTED AS PLENUM RATED CABLE.
29. WHERE PIPING CONNECTIONS FOR THE EQUIPMENT SUCH AS PUMPS, AC UNITS, COILS, ETC. DIFFER FORM THE LINE SIZE, IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL THE NECESSARY REDUCERS OR EXPANDER FITTINGS TO ENABLE CONNECTION BETWEEN THE PIPING SYSTEM AND THE EQUIPMENT.
30. ALL DRAINAGE PIPING SHALL BE SLOPED AT A MINIMUM OF 1/8" PER FOOT.
31. ALL INSULATION PROVIDED FOR THE PROJECT MUST MEET A MAXIMUM FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED OF 50 OR LESS, AS TESTED IN ACCORDANCE WITH ASTM, NFPA & U.L. GUIDELINES.
32. ALL EQUIPMENT FOR THIS PROJECT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
33. CONTRACTOR SHALL SUBMIT DIMENSIONED, COORDINATED SHOP DRAWINGS FOR ENGINEERS APPROVAL. DRAWING SHALL INDICATE ALL TRADES, (ELECTRICAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND INFRASTRUCTURE).
34. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A ONE (1) YEAR WRITTEN GUARANTEE OF ALL WORK (LABOR AND MATERIALS) STARTING FROM THE DATE OF ISSUANCE OF SUBSTANTIAL COMPLETION.
35. UNLESS OTHERWISE SPECIFIED, ALL MOTORS ½ H.P. AND ABOVE SHALL BE 3 PHASE AND MOTORS UNDER ½ H.P. SHALL BE SINGLE PHASE.
36. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE ELECTRICAL REQUIREMENTS OF HIS WORK WITH THE GENERAL AND ELECTRICAL CONTRACTORS PRIOR TO SUBMISSION OF BIDS.
37. CONTRACTOR TO PATCH ALL DISTURBED FINISHES WITH MATERIAL AND ASSEMBLIES TO MATCH EXISTING ADJACENT SURFACES AND FINISHES.

GENERAL ABBREVIATIONS

IDENTIFIER	DESCRIPTION	IDENTIFIER	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	MC	MECHANICAL CONTRACTOR
AFG	ABOVE FINISHED GRADE	MCA	MINIMUM CIRCUIT AMPS
ATC	AUTOMATIC TEMPERATURE CONTROLS	MEZZ	MEZZANINE
BFG	BELOW FINISHED GRADE	MFG	MANUFACTURER
BLDG	BUILDING	MH	MOUNTING HEIGHT
CONN'S	CONNECTIONS	MIN	MINIMUM
CLG	CEILING	MOD	MOTOR OPERATED DAMPER
CO	COMPANY	MTD	MOUNTED
CONTR.	CONTRACTOR	NC	NORMALLY CLOSED
CTE	CONNECT TO EXISTING	NIC	NOT IN CONTRACT
DN	DOWN	NO	NORMALLY OPEN
DWG(S)	DRAWING(S)	NTS	NOT TO SCALE
EC	ELECTRICAL CONTRACTOR	OC	ON CENTER
EM	EMERGENCY	PC	PLUMBING CONTRACTOR
EQUIP	EQUIPMENT	PSI	POUNDS PER SQUARE INCH
ETR	EXISTING TO REMAIN	PVC	POLYVINYL CHLORIDE
EWC	ELECTRIC WATER COOLER	R	EXISTING EQUIPMENT TO BE REMOVED
EX	EXISTING	RL	EXISTING EQUIPMENT TO BE RELOCATED
FLA	FULL LOAD AMPS	RLA	RUNNING LOAD AMPS
FS	FLOW SWITCH	RPM	REVOLUTIONS PER MINUTE
GC	GENERAL CONTRACTOR	SDD	DUCT SMOKE DETECTOR
HP	HORSEPOWER	SQ. FT.	SQUARE FEET
MAX	MAXIMUM	TYP	TYPICAL
		VSD	VARIABLE SPEED DRIVE

* NOTE THAT NOT ALL ABBREVATIONS APPLY TO THE PROJECT

MECHANICAL ABBREVIATIONS

CFM	CUBIC FEET PER MINUTE	S/A	SUPPLY AIR
CR	CEILING REGISTER	SD	SMOKE DAMPER
CU	CONDENSING UNIT	SE	SMOKE EXHAUST
CW	COLD WATER	SF	SUPPLY FAN
DB	DRY BULB	SR	SUPPLY REGISTER
DN	DOWN	T	THERMOSTAT
E/A	EXHAUST AIR	TG	TRANSFER GRILLE
EAT	ENTERING AIR TEMPERATURE	TO	TRANSFER OPENING
EDB	ENTERING DRY BULB	TR	TOP REGISTER
EER	ENERGY EFFICIENCY RATIO	TT	THERMOSTATIC TRAP
EG	EXHAUST GRILLE	UH	UNIT HEATER
EH	ELECTRIC HEATER	UV	UNIT VENTILATOR
ESP	EXTERNAL STATIC PRESSURE	VD	VOLUME DAMPER
EWB	ENTERING WET BULB	WB	WET BULB
EF	EXHAUST FAN	W.C.	WATER COLUMN
FD	FIRE DAMPER WITH ACCESS DOOR	WG	WATER GAUGE
FPM	FEET PER MINUTE	WMS	WIRE MESH SCREEN
G	GAS	XEF	EXISTING EXHAUST FAN
GPM	GALLONS PER MINUTE	XB	EXISTING BOILER
HX	HEAT EXCHANGER	X	EXISTING
LAT	LEAVING AIR TEMPERATURE	UV	UNIT VENT
MAU	MAKE UP AIR UNIT	VAV	VARIABLE AIR VOLUME
MBH	THOUSAND BTU PER HOUR	RTU	ROOFTOP UNIT
MOD	MOTOR OPERATED DAMPER	SCUV	SELF CONTAINED UNIT VENT
N.C.	NORMALLY CLOSED	CONV	CONVECTOR
N.O.	NORMALLY OPEN	FTR	FIN TUBE RADIATION
O/A	OUTSIDE AIR	CUH	CABINET UNIT HEATER
OAI	OUTSIDE AIR INTAKE	XEF	EXISTING EXHAUST FAN
OED	OPEN ENDED DUCT	XR	EXISTING RETURN GRILLE
P	PUMP	XS	EXISTING SUPPLY DIFFUSER
R/A	RETURN AIR	XRH	EXISTING REHEAT COIL
RAV	RELIEF AIR VENT	XSP	EXISTING SMOKE PURGE GRILLE
RG	RETURN GRILLE	XVAV	EXISTING VAV BOX
RH	RELATIVE HUMIDITY		
RR	RETURN REGISTER		

* NOTE THAT NOT ALL ABBREVATIONS APPLY TO THE PROJECT

MECHANICAL SYMBOLS

DESCRIPTION	IDENTIFIER	DESCRIPTION
HEATING HOT WATER SUPPLY		REDUCER (ECCENTRIC)
HEATING HOT WATER RETURN		VALVE ON RISER
CONDENSATE DRAIN		ANGLE VALVE
PUMPED CONDENSATE		PRESSURE RELIEF VALVE
EQUIPMENT VENT		CONTROL VALVE (2-PORT)
PRESSURE REDUCING VALVE (SELF-CONTAINED)		CONTROL VALVE (3-PORT)
PRESSURE REDUCING VALVE (REMOTE TYPE)		PIPE ANCHOR
STEAM PRESSURE GAUGE W/ SHUT-OFF		MOMENT GUIDES
PRESSURE GAUGE W/ SHUT-OFF	C	OPEN-ENDED PIPE
THERMOMETER W/ SHUT-OFF		PIPE TO BE DEMOLISHED
Y-TYPE STRAINER W/ BLOWDOWN & HOSE BIBB		CONNECT TO EXISTING
UNION		DUCT UNDER POSITIVE PRESSURE
MANUAL AIR VENT		DUCT UNDER NEGATIVE PRESSURE
AUTOMATIC AIR VENT		ROUND DUCT
PIPE TURNING UP		SUPPLY REGISTER
PIPE TURNING DOWN		RETURN OR EXHAUST REGISTER
PITCH DOWN		VOLUME DAMPER
DIRECTION OF FLOW	F	FIRE DAMPER W/ACCESS DOOR
CAPPED PIPE		BACKDRAFT DAMPER
EXPANSION JOINT	M	MOTORIZED DAMPER
BALL VALVE	U	AIRFLOW THRU UNDERCUT
SWING TYPE CHECK VALVE	L	AIRFLOW THRU LOUVERED DOOR
GATE VALVE	T	THERMOSTAT (WALL MOUNTED)
GLOBE VALVE	D/C/V	AIR DEVICE TYPE
BUTTERFLY VALVE		AIR QUANTITY
CALIBRATED BALANCING VALVE		DUCTWORK TO BE DEMOLISHED
TRIPLE-DUTY VALVE	S	SENSOR
REDUCER (CONCENTRIC)		FLEXIBLE CONNECTION
GAS COCK		EXISTING DUCTWORK TO REMAIN
PRESSURE REGULATOR (LOCK UP TYPE)		THERMOMETER
GAS PIPING		PUMP
SANITARY SEWER PIPING		EXISTING SUPPLY DIFFUSER
SANITARY VENT PIPING		EXISTING RETURN OR EXHAUST GRILLE
	XXX / XXX	EQUIPMENT TYPE / EQUIPMENT ID NUMBER

* NOTE THAT NOT ALL SYMBOLS APPLY TO THE PROJECT

SYMBOL LIST

SYMBOL	DESCRIPTION
M2 / 02	PLAN OR DETAIL TAG; DRAWING # TO LOCATE DETAIL; DETAIL #
M2 / 04	SECTION TAG; DRAWING # TO LOCATE SECTION; DETAIL #
M2 / 04	ELEVATION TAG; DETAIL #
1	DRAWING # TO LOCATE ELEVATION; KEY NOTE SYMBOL
1 2	KEY NOTES APPLYING TO SAME ITEM
	CONNECT TO EXISTING

GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR POSSIBLE INTERFERENCE WITH HIS WORK AND THE WORK OF OTHERS FROM NEW AND EXISTING CONDITIONS.
2. DUCTWORK AND PIPING LAYOUTS ARE DIAGRAMMATIC AND INTEND TO SHOW A GENERAL ARRANGEMENT, SIZE AND CAPACITY. ALL OFFSETS ARE NOT NECESSARILY SHOWN. CONTRACTOR SHALL ARRANGE AND COORDINATE THE WORK, FURNISH NECESSARY OFFSETS, VALVES, VENTS, AND FITTINGS TO AVOID CONFLICT WITH OTHER MECHANICAL AND ELECTRICAL SERVICES AND WITH STRUCTURAL AND ARCHITECTURAL ELEMENTS.
3. WHILE ALL ATTEMPTS AT ACCURACY HAVE BEEN TAKEN, NO GUARANTEE OF AN EXACT REPRESENTATION OR COMPLETENESS IS IMPLIED. RESPONSIBILITY FOR FINAL VERIFICATION FALLS TO THE CONTRACTOR. ANY UNRESOLVED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
4. SEE SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION.
5. ALL SYSTEMS TO REMAIN THAT ARE DAMAGED DURING DEMOLITION PHASE OF WORK SHALL BE RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST.
6. ALL REMOVED MATERIALS AND EQUIPMENT SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR. OWNER RESERVES THE RIGHT TO RETAIN ANY MATERIAL, WHICH SHALL BE STORED AT HIS DIRECTION.
7. IT IS THE INTENT OF THESE DOCUMENTS THAT ALL EXISTING HVAC EQUIPMENT AND SYSTEMS THAT ARE NOT TO BE RE-USED BE DISCONNECTED AND REMOVED IN THEIR ENTIRETY.
8. ALL PENETRATIONS THROUGH EXISTING CORRIDOR WALLS SHALL BE TREATED AS RATED PENETRATIONS AND SEALED AS PER DETAILS.
9. ALL CONTROLLERS AND THERMOSTATS LOCATED IN PUBLIC AREAS SHALL HAVE PLASTIC, LOCKABLE COVERS INSTALLED ON THEM.
10. ALL CONTROL WIRING SHALL BE ROUTED CONCEALED, IN ANY CASES WHERE THE WIRING MUST BE ROUTED EXPOSED, PROVIDE AND INSTALL ONE-PIECE NONMETALLIC RACEWAY AND JOINING PIECES TO CONCEAL AND PROTECT WIRING. RACEWAY SHALL BE SIMILAR TO SERIES 2700 AS PRODUCED BY WIREMOLD OR EQUAL.
11. PATCH ALL PENETRATIONS FROM REMOVED EQUIPMENT WITH SIMILAR MATERIALS. COORDINATE WITH ROOF CONTRACTOR UNDER SEPARATE CONTRACT SO AS NOT TO VOID ANY ROOF WARRANTIES.

HVAC DESIGN CRITERIA

1. APPLICABLE CODES AND REFERENCES:
   A. INTERNATIONAL BUILDING CODE – 2021
   B. ASHRAE / IES STANDARD 90.1 – 2020
   C. INTERNATIONAL MECHANICAL CODE – 2021
   D. INTERNATIONAL FUEL GAS CODE – 2021
   E. NATIONAL STANDARD PLUMBING CODE – 2021
   F. UNIFORM CONSTRUCTION CODE OF NEW JERSEY
2. SUMMER OUTDOOR DESIGN CONDITIONS (PER ASHRAE FUNDAMENTALS – 2021):
   A. DRY BULB: 94.3 DEG. F.
   B. WET BULB: 74.4 DEG. F. *
   * ASHRAE 0.4 % COOLING DRY BULB/MEAN WET BULB FOR NEWARK, NEW JERSEY.
3. SUMMER INDOOR DESIGN CONDITIONS:
   A. DRY BULB: 75 DEG. F. (+/– 2 DEG. F.)
   B. RELATIVE HUMIDITY: 50%
4. WINTER OUTDOOR DESIGN CONDITIONS (PER ASHRAE FUNDAMENTALS – 2021):
   A. DRY BULB: 12.7 DEG. F. *
   *ASHRAE 99.6 % DESIGN DAY DRY BULB FOR NEWARK, NEW JERSEY.
5. WINTER INDOOR DESIGN CONDITIONS:
   A. DRY BULB: 70 DEG. F. (+/– 2 DEG. F.)
   B. RELATIVE HUMIDITY: NO MINIMUM HUMIDITY CONTROL PROVIDED

Department of Community Affairs
Construction Project Review
Project No: 9050-26
partial release
mechanical
Thomas Williams
Released: 4/22/2026
N.J.S.A. 52:27D-119 ET SEQ., AS AMENDED

TOKARSKI + MILLEMANN
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N.Y. LICENSE # 028885
CERTIFICATE OF AUTHORIZATION
No. AC33200

LATRINE ALTERATIONS FOR:
MT HOLLY ARMORY
1670 NJ-38
MT HOLLY, NEW JERSEY 08060
DMA PROJECT NO. MH008

REV.:	DATE:	DESCRIPTION:

MECHANICAL GENERAL INFORMATION

KSI CONSULTING ENGINEERS, LLC
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FAX:
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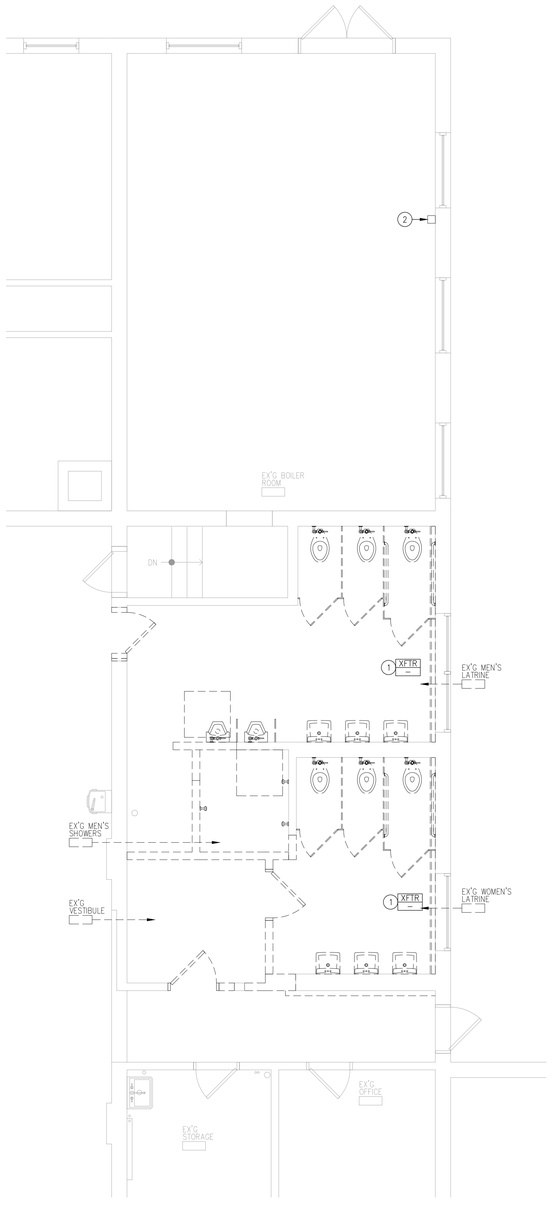
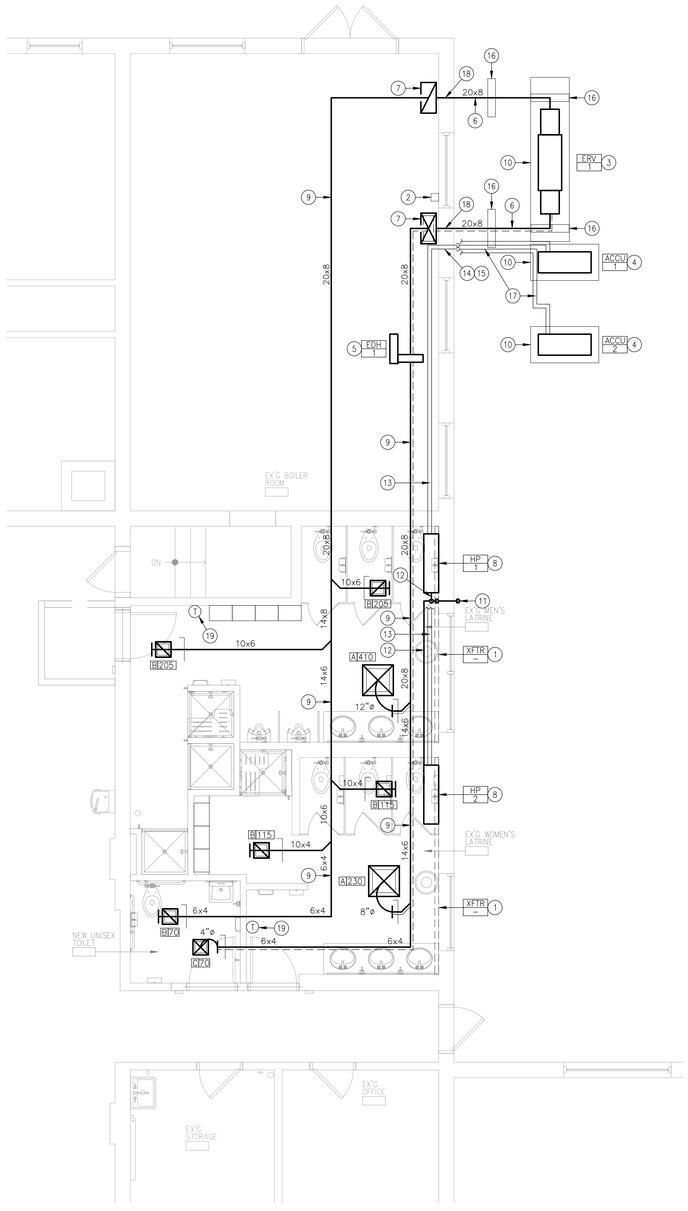
24GA28124300
PAUL RIPISH, P.E.
Professional Engineer
State of New Jersey
STATE OF NEW JERSEY
PAUL B. RIPISH
24GE04515800
LICENSED
PROFESSIONAL ENGINEER
DATE: 3/31/26
KSI PROJECT #: 25020M_27
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NUMBER: 45 15800

PROJECT NO.: 2557
DRAWN BY: KM
DATE ISSUED: 3/30/26
SHEET NO.:
M0.1



01 M1.1 MECHANICAL DEMOLITION PART PLAN
1/4"=1'-0"



02 M1.1 MECHANICAL NEW WORK PART PLAN
1/4"=1'-0"

KEY NOTES

1. EXISTING HOT WATER FTR TO REMAIN.
2. RELOCATE EXISTING DESK AND WALL MOUNTED MEASURING DEVICE AND BACKBOARD AS SHOW PATCH/PAINT WALL TO MATCH EXISTING CONSTRUCTION. PROPOSED NEW LOCATION IS UNDER WINDOW. COORDINATE NEW LOCATION IN FIELD
3. PROVIDE NEW GRADE-MOUNTED ENERGY RECOVERY VENTILATOR. MOUNT ON 18" TALL CURB (CONCRETE PAD
4. PROVIDE NEW GRADE-MOUNTED CONDENSING UNIT. SECURE TO CONCRETE PAD WITH CONCRE ANCHORS
5. PROVIDE NEW ELECTRIC DUCT HEATER.
6. MOUNT DUCTS SUCH THAT BOTTOM OF DUCTS ARE ALIGNED WITH THE 4TH BRICK COURSE (OR HIGHER) FROM BOTTOM, ABOVE WHITE SOLID FOUNDATION WALL. CONTRACTOR TO COORDINATE DUCT HEIGHT IN FIELD.
7. ROUTE DUCT UP ALONG BOILER ROOM INNER WALL. ROUTE DUCT AS HIGH AS POSSIBLE IN BOILER ROOM WITHOUT INTERFERING WITH PIPING. COORDINATE DUCT ROUTING WITH ALL TRADES.
8. PROVIDE NEW HI-WALL HEAT PUMP.
9. PROVIDE NEW DUCTWORK. PROVIDE GALVANNEEL OR MILL-PHOSPHATIZED FINISH IN EXPOSED AREAS AND PAINT. COORDINATE PAINT COLOR WITH ARCHITECT. TYPICAL.
10. PROVIDE NEW CONCRETE PAD. FIELD VERIFY ALL UNDERGROUND PIPING PRIOR TO INSTALLATION OF CONCRETE PAD. INSTALL PAD SO THAT IT DOES NOT COVER EXISTING UNDERGROUND PIPING.
11. PROVIDE NEW OPENING IN WALL FOR CONDENSATE PIPING. PROVIDE NEW 1" COPPER CONDENSATE PIPING THROUGH WALL. CAULK CONDENSATE PIPING IN WALL WATER TIGHT. TERMINATE CONDENSATE PIPING WITH 90 DEGREE COPPER ELBOW. PROVIDE SPLASH BLOCK AND SPILL CONDENSATE TO SPLASH BLOCK.
12. PROVIDE NEW 1" COPPER CONDENSATE PIPING. INSULATE AS PER SPECIFICATIONS. SLOPE PIPING AT 1/8" PER FOOT.
13. PROVIDE NEW REFRIGERANT PIPING. ALL REFRIGERANT SIZES AND QUANTITIES SHALL BE BY FINAL APPROVED HP/CU MANUFACTURER.
14. PROVIDE NEW REFRIGERANT PIPING THROUGH EXTERIOR WALL. SEAL WALL PENETRATIONS WATER TIGHT.
15. INSTALL REFRIGERANT PIPING, POWER AND CONTROL CONDUITS RACKED. ONLY TWO LINES ARE SHOWN FOR CLARITY.
16. PROVIDE NEW DUCT SUPPORT CURB AND ANCHOR TO NEW CONCRETE PADS WITH CONCRETE ANCHORS
17. ROUTE REFRIGERANT PIPING TO BE ON TOP OF CONCRETE PAD AS SHOWN.
18. PROVIDE NEW DUCTWORK THRU EXTERIOR WALL. REFER TO EXTERIOR WALL DUCT PENTRATION DETAIL ON DRAWING M2.2. PROVIDE NEW LINTEL AT NEW DUCT OPENING
19. PROVIDE NEW WALL MOUNTED THERMOSTAT BY HEAT PUMP MANUFACTURER.

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LICENSED
PROFESSIONAL ENGINEER
DATE: 3/31/26
KSI PROJECT # 2502024 27
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NUMBER: 45158000

MECHANICAL DEMOLITION & NEW WORK PART PLANS

PROJECT NO.: 2557
DRAWN BY: KM
DATE ISSUED: 3/30/26
SHEET NO.:
M1.1

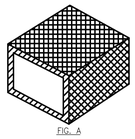


FIG. A

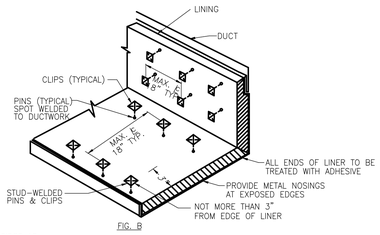


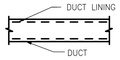
FIG. B

NOTES:

1. DUCTS SHALL BE ACOUSTICALLY LINED ON ALL 4 SIDES AS SHOWN IN FIG. "A" AND SHALL BE DESIGNATED BY THE SYMBOL IN FIG. "C". LINING THICKNESS SHALL BE AS SPECIFIED.

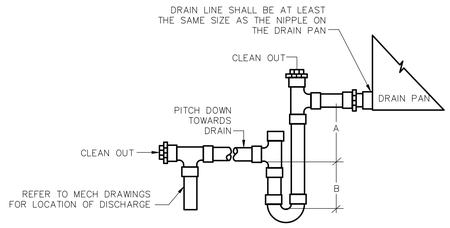
2. DUCTS LINED WITH ACOUSTICAL MATERIAL SHALL BE FASTENED WITH CLIPS, ADHESIVE OR PINS, AS DESCRIBED IN SMACNA DUCT CONSTRUCTION STANDARDS 1985 EDITION.

3. REFER TO SPECIFICATIONS FOR MATERIAL TYPES. EDITION.



01 M2.1 ACOUSTICAL TREATMENT - DUCT LINING DETAIL

NONE



UNIT TYPE	A	B
DRAW THRU	X"	1.5X"
BLOW THRU	1"MIN	2X

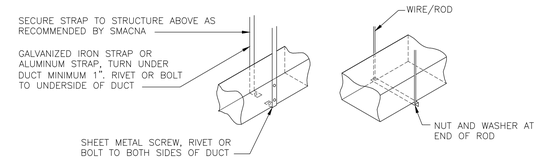
WHERE X = STATIC PRESSURE IN PAN

02 M2.1 CONDENSATE DRAIN TRAP DETAIL

N.T.S

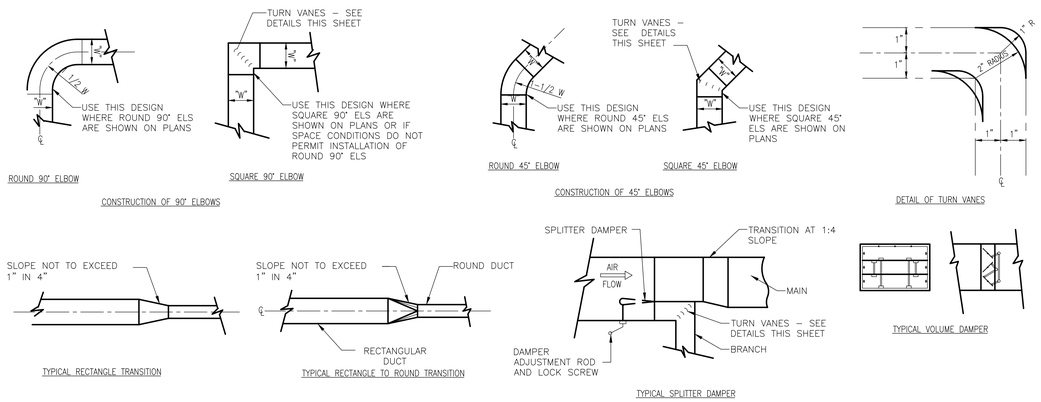
RECTANGULAR DUCT HANGER SCHEDULE (MINIMUM SIZES)

HALF DUCT PERIMETER RANGE	PAIR AT 10' SPACING		PAIR AT 8' SPACING		PAIR AT 5' SPACING		PAIR AT 4' SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2 < 30'	1"x 22 GA.	10 GA. (0.135")	1"x 22 GA.	10 GA. (0.135")	1"x 22 GA.	12 GA. (0.106")	1"x 22 GA.	12 GA. (0.106")
P/2 < 72"	1"x 18 GA.	3/8"	1"x 20 GA.	1/4"	1"x 22 GA.	1/4"	1"x 22 GA.	1/4"
P/2 < 96"	1"x 16 GA.	3/8"	1"x 18 GA.	3/8"	1"x 20 GA.	3/8"	1"x 22 GA.	1/4"
P/2 < 120"	1-1/2"x 16 GA.	1/2"	1"x 16 GA.	3/8"	1"x 18 GA.	3/8"	1"x 20 GA.	1/4"
P/2 < 168"	1-1/2"x 16 GA.	1/2"	1"x 16 GA.	1/2"	1"x 16 GA.	3/8"	1"x 18 GA.	3/8"
P/2 < 192"	–	1/2"	1-1/2"x 16 GA.	1/2"	1"x 16 GA.	3/8"	1"x 16 GA.	3/8"



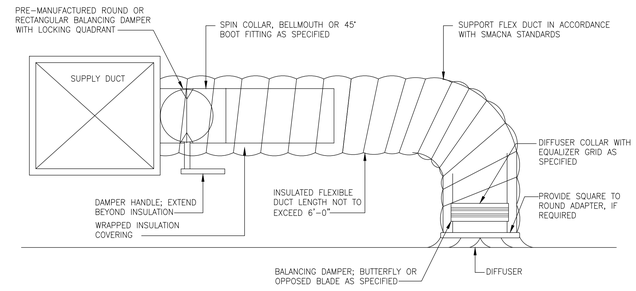
03 M2.1 DUCT HANGER DETAILS

NONE



04 M2.1 DUCTWORK DETAILS

NONE



NOTES:

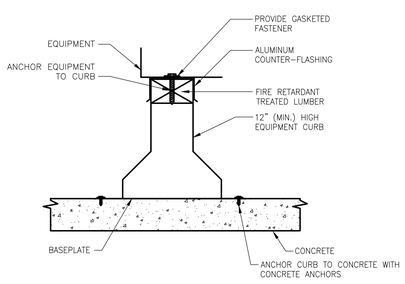
1. PROVIDE AT FLEXIBLE DUCT CONNECTION A METAL DRAWNBAND ON THE INTERIOR FLEXIBLE DUCT. SECURE THE INSULATION OVER THE DRAW BAND WITH AN ADDITIONAL DRAWBAND.

   PROVIDE MINIMUM 2" COLLARS FOR ATTACHMENT OF THE FLEX DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.

   BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

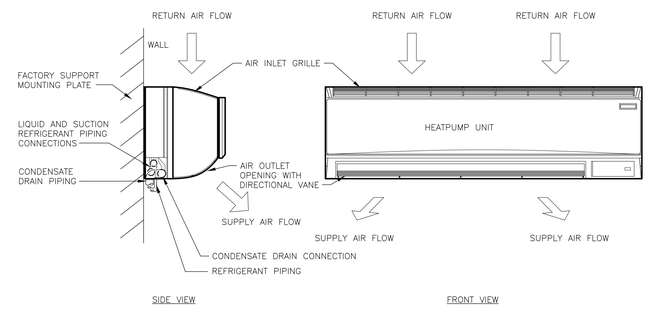
05 M2.1 FLEXIBLE DUCT INSTALLATION

NONE



06 M2.1 EQUIPMENT ON GRADE SUPPORT RAIL DETAIL

NONE



NOTES:

1. COORDINATE SUPPORTING UNIT FROM WALL STRUCTURE WITH FIELD CONDITIONS, STRUCTURAL ENGINEER AND ARCHITECT, AS WELL AS CORRECT METHODS AND RECOMMENDATIONS AS PER THE UNIT MANUFACTURER.
2. PROVIDE P-TRAP FOR CONDENSATE DRAIN.
3. CONTRACTOR SHALL SECURE THE UNIT IN ACCORDANCE WITH LOCAL SEISMIC BUILDING CODES.
4. UNIT SHALL BE PROVIDED WITH CONDENSATE PUMP WHERE DRAINING BY GRAVITY CAN NOT BE ACHIEVED. PUMP SHALL BE SIZED TO ACCOMMODATE THE CONDENSATE LIQUID "LIFT" DISTANCE REQUIRED TO ACHIEVE PROPER DRAINAGE. PROVIDE 15 AMP RECEPTACLE FOR PLUG-IN TYPE MODELS WHERE REQUIRED.
5. UNIT SHALL HAVE MODULATING DIRECTIONAL SUPPLY DISCHARGE AIR VANE WITH STATIONARY LOCKING POSITION.
6. SIZE AND INSTALL ALL REFRIGERANT PIPING AND PROVIDE QUANTITIES AS PER THE MANUFACTURER'S RECOMMENDATIONS (QUANTITIES SHOWN ARE FOR DIAGRAMMATIC PURPOSES). INSULATE AS PER SPECIFICATIONS.
7. ALL REFRIGERANT AND CONDENSATE PIPING SHALL BE CONCEALED BEHIND WALLS FOR A "CLEAN" APPEARANCE IN OCCUPIED EXPOSED SPACES. WHERE PIPING CAN NOT BE CONCEALED, DECORATIVE PRE-ENGINEERED CONCEALMENT "CAP" SHALL BE PROVIDED AND PIPING INSTALLATION / MOUNTING METHOD TO BE COORDINATED WITH OWNER, ARCHITECT AND/OR ENGINEER PRIOR TO INSTALLING.
8. PROVIDE MECHANICAL FLOAT AND ELECTRONIC CONDENSATE OVERFLOW SENSOR WITH AUTOMATIC UNIT SHUTDOWN CAPABILITY.
9. PROVIDE REFRIGERANT ISOLATION VALVES AT EACH PIECE OF EQUIPMENT ON ALL PIPING CONNECTIONS.

07 M2.1 DUCTLESS WALL MOUNTED HEATPUMP UNIT INSTALLATION DETAIL

NONE

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REV.:	DATE:	DESCRIPTION:

MECHANICAL DETAILS

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ADDRESS:
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LICENSED
PROFESSIONAL ENGINEER
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KSI PROJECT # 250204 27
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NUMBER: 45158000

PROJECT NO.: 2557
DRAWN BY: KM
DATE ISSUED: 3/30/26
SHEET NO.:
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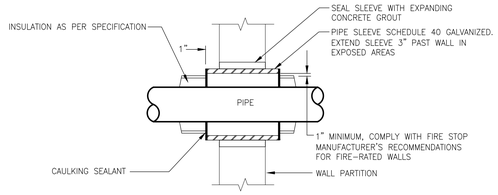
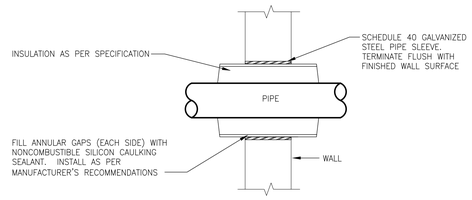


PIPING PENETRATION METHOD FOR MASONRY AND FIRE-RATED WALLS



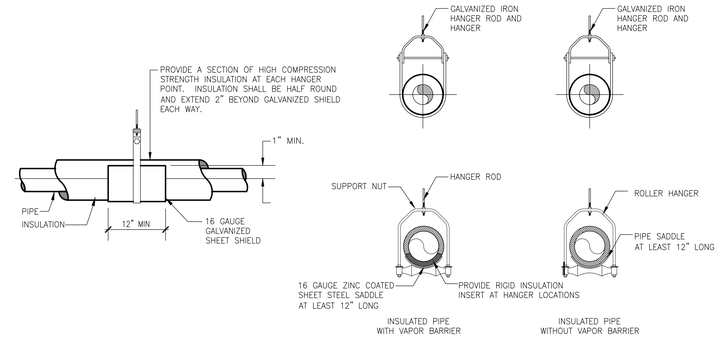
PIPING PENETRATION METHOD FOR GYPSUM BOARD WALLS

NOTES:

1. DETAIL SHALL BE APPLIED TO ALL WALL (CORRIDOR, STAIRWELLS, UTILITY ROOMS, ETC.) PIPING PENETRATIONS.
2. PROVIDE ESCUTCHEON PLATE WHERE PIPE PENETRATIONS ARE EXPOSED IN FINISHED AREAS.
3. PROVIDE 3M F.S. WRAPSTRIP FIRE STOP AND C.P. 25 CAULKING PUTTY INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS TO ANY FIRE-RATED WALL PENETRATIONS.

01 / M2.2 PIPE PENETRATION THROUGH WALL

NONE

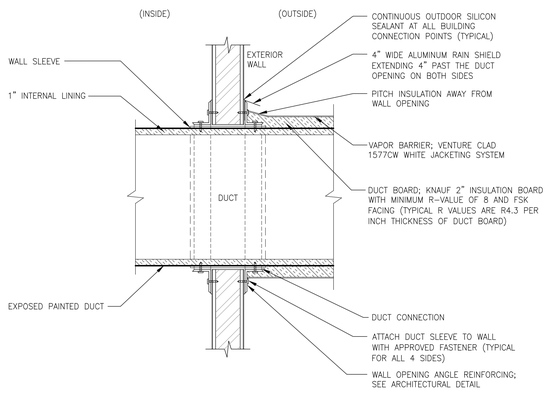


HANGER ROD SIZE/SPACING SCHEDULE

PIPE SIZE	WEIGHT PER FOOT	MINIMUM HANGER ROD SIZE	MAXIMUM HANGER SPACING WASTE & WATER COPPER TYPE M	WASTE & WATER STEEL SCH. 40	NATURAL GAS SCH. 40
1/2"	1.0	1/4"	6'	5'	6'
3/4"	1.4	1/4"	6'	6'	8'
1"	2.1	1/4"	6'	7'	8'
1-1/4"	2.9	3/8"	6'	9'	10'
1-1/2"	3.6	3/8"	6'	9'	10'
2"	5.2	3/8"	10'	10'	10'
2-1/2"	7.9	1/2"	10'	11'	10'
3"	10.8	1/2"	–	12'	–
4"	16.5	5/8"	–	14'	–
6"	31.5	3/4"	–	17'	–
8"	47	7/8"	–	19'	–
10"	70	7/8"	–	22'	–
12"	94	7/8"	–	23'	–

02 / M2.2 PIPE HANGER DETAIL

NONE

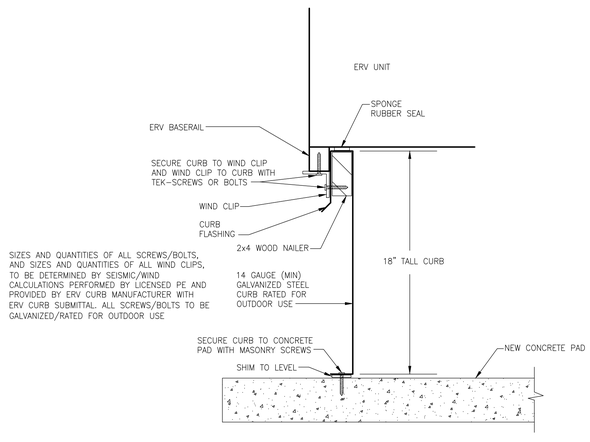


NOTES:

1. PROVIDE ALL WEATHERPROOFING MEASURES (FLASHING, SEALANTS, ETC.) FOR THE WALL PENETRATION.
2. ALL HARDWARE, SHEETMETAL, ETC. USED OUTSIDE SHALL BE NON-CORROSIVE EXTERIOR RATED.
3. WALL PENETRATION SIZE SHALL ACCOUNT FOR AND ACCOMMODATE ANY INCREASED DUCT SIZES WHERE INTERNAL LINING IS PRESENT.
4. DUCTS AND COUNTER FLASHING SHALL BE PROPERLY SECURED TO THE WALL ASSEMBLY. ALL FASTENER PENETRATIONS IN WEATHERPROOF BARRIERS SHALL USE SILICON CAULK SEALANT.
5. WALL PENETRATION ASSEMBLY SHALL FIT TIGHT AGAINST WALLS WITH WEATHERPROOFING MEASURES PROVIDED. PROVIDE ALL REQUIRED FILLER BLOCKING, STRIPS, HARDWARE, SEALANTS, ETC.) TO ACCOMMODATE THE WALL ASSEMBLY. ALL MATERIALS USED SHALL BE EXTERIOR GRADE RATED..
6. DUCTS SHALL NOT BE SUPPORTED BY WALL PENETRATION ASSEMBLY. PROVIDE SUPPORTS ON BOTH SIDES OF WALL PENETRATION.
7. SEE FLOOR PLANS FOR DUCT SIZES.

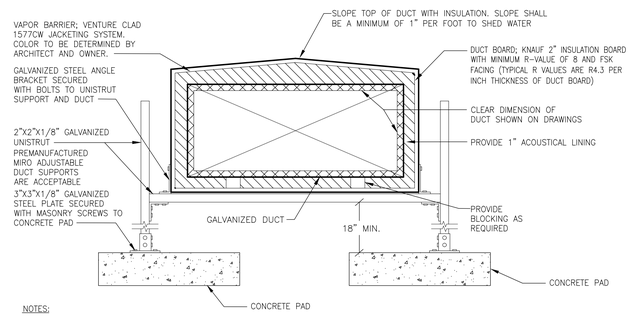
03 / M2.2 EXTERIOR WALL DUCT PENETRATION

NONE



04 / M2.2 ERV UNIT ON GRADE MOUNTED CONCRETE PAD DETAIL

NONE



NOTES:

1. SUPPORT AND SECURE ALL DUCTS WITH WELDED STEEL OR UNISTRUT SUPPORT / CLAMPING SYSTEMS. ALL SUPPORTS AND HARDWARE SHALL BE WEATHER PROOF AND RATED FOR OUTDOOR USE. ALL FASTENER PENETRATIONS IN WEATHERPROOF BARRIERS SHALL USE SILICON CAULK SEALANT. CONTRACTOR SHALL SECURE DUCTS IN ACCORDANCE WITH LOCAL SEISMIC BUILDING CODES.
2. DUCTS SHALL AVOID RESTING DIRECTLY ON SUPPORTS WITHOUT PROTECTION MEASURES (SHIELDING, ETC.) TO AVOID INSULATION DAMAGE AND COMPRISING.
3. SEE FLOOR PLANS FOR ALL DUCT ROUTINGS AND SIZES.
4. PROVIDE DUCT SUPPORTS EVERY 6'-0" IN LENGTH AND AT ANY HORIZONTAL AND VERTICAL TURNS.
5. DUCTS SHALL TRANSITION AND DUCT SUPPORT HEIGHTS SHALL BE ADJUSTED TO ACCOMMODATE FIELD CONDITIONS FOR PROPER CLEARANCES.

05 / M2.2 EXTERIOR DUCT INSTALLATION DETAIL

NONE

Department of Community Affairs
Construction Project Review
Project No: 9050-26
partial release
mechanical
Thomas Williams
Released: 4/22/2026
N.J.S.A. 52:27D-119 ET SEQ., AS AMENDED

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LATRINE ALTERATIONS FOR:
MT HOLLY ARMORY
1670 NJ-38
MT HOLLY, NEW JERSEY 08060
DMA PROJECT NO. MH008

REV.:	DATE:	DESCRIPTION:

MECHANICAL DETAILS

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DATE: 3/31/26
KSI PROJECT # 250204_27
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NUMBER: 4515800

PROJECT NO.: 2557
DRAWN BY: KM
DATE ISSUED: 3/30/26
SHEET NO.:
M2.2

ENERGY RECOVERY UNIT SCHEDULE (ERV)

UNIT ID	MODEL NUMBER	SPACE SERVED	SUPPLY FAN AIR FLOW (CFM)	SUPPLY FAN MOTOR (WATTS)	SUPPLY FAN ESP (IN. W.C.)	EXHAUST FAN AIR FLOW (CFM)	EXHAUST FAN MOTOR (WATTS)	EXHAUST FAN ESP (IN. W.C.)	WINTER CONDITIONS EAT (AMBIENT) DB/WB °F	WINTER CONDITIONS LAT (SUPPLY) DB/WB °F	WINTER CONDITIONS TOTAL CAPACITY RECOVERED (MBH)	SUMMER CONDITIONS EAT (AMBIENT) DB/WB °F	SUMMER CONDITIONS LAT (SUPPLY) DB/WB °F	SUMMER CONDITIONS TOTAL CAPACITY RECOVERED (MBH)	ELECTRICAL CHARACTERISTICS VOLTS	PHASE	HERTZ	MCA	MOP (AMPS)	DIMENSIONS LENGTH (INCH)	WIDTH (INCH)	HEIGHT (INCH)	WEIGHT (LBS.)	NOTES
ERV-1	HE10-JRTH	BATHROOMS	710	438	1.25	710	411	1.25	12.3/8.0	53.2/40.2	38.29	95.0/73.6	80.8/68.2	14.83	208/230	1	60	11.3	15	81.75	18.25	55.25	261	1 THRU 12

NOTES:
1. SELECTIONS BASED ON EQUIPMENT MANUFACTURED BY RENEW-AIRE. SELECTIONS ARE BASIS OF DESIGN ONLY. CONTRACTOR MAY PROVIDE APPROVED EQUAL THAT MEETS THE PERFORMANCE REQUIREMENTS AND SALIENT CHARACTERISTICS OF THE BASIS OF DESIGN.
2. UNIT SHALL BE OUTDOOR RATED AND "RTH" CONFIGURATION WIITH HORIZONTAL SUPPLY AND RETURN AIRFLOW.
3. UNIT SHALL HAVE ALL INTEGRAL CONTROLS FOR COMPLETE OPERATION.
4. UNIT SHALL HAVE CROSS-FLOW "AIR-TO-AIR" ENERGY RECOVERY CORE HEAT EXCHANGER. COORDINATE AIR CONNECTION CONFIGURATION TYPE WITH LAYOUT ON PLANS.
5. UNIT SHALL HAVE FACTORY MOTORIZED OUTSIDE AND EXHAUST AIR DAMPERS WITH FULL CONTROL.
6. UNIT SHALL HAVE DISCONNECT SWITCH.
7. UNIT SHALL HAVE REMOVABLE TYPE ACCESS DOOR PANELS.
8. PROVIDE MERV 8 FILTERS (SIZES AND QUANTITIES AS PER MANUFACTURER REQUIREMENTS)
9. PROVIDE ALL REQUIRED CONTROLS COMPONENTS (CONTROLLERS, SENSORS, CONTROL AND POWER WIRING, CONTROL TRANSFORMERS, ETC.) REQUIRED FOR A COMPLETE INSTALLATION.
10. UNIT SHALL HAVE PLUG-IN CORD. PROVIDE 120V/1PH/60HZ DUPLEX RECEPTACLE AND DISCONNECT WITH ALL REQUIRED POWER WIRING, DEVICES, ETC.
11. UNIT SHALL HAVE DOUBLE WALL CONSTRUCTION.
12. PROVIDE NEW 18" SEISMIC/WIND LOAD RATED CURB WITHOUT VIBRATION ISOLATION. CURB MANUFACTURER TO PROVIDE SIGNED AND SEALED (BY NJ PE) CALCULATIONS INDICATING QUANTITIES AND LOCATONS OF ERV TO CURB AND CURB TO CONCRETE PAD ATTACHMENTS TO COMPLY WITH WIND LOAD CALCULATIONS OF 126 MPH FOR MOUNT HOLLY, NJ. CURBS SHALL BE THYBAR, VMC, CAMBRIDGE, OR APPROVED EQUAL.

AIR-COOLED CONDENSING UNIT SCHEDULE (ACCU)

UNIT NO.	MODEL NO.	INTERLOCKED INDOOR UNIT(S)	NOMINAL COOLING CAPACITY (TONS)	NOMINAL COOLING CAPACITY (BTUH)	NOMINAL HEATING CAPACITY (BTUH)	ELECTRICAL VOLTS	PHASE	HERTZ	FEED 1 MCA (AMPS)	MOCP (AMPS)	DIMENSIONS WIDTH (INCH)	HEIGHT (INCH)	DEPTH (INCH)	WEIGHT (LBS.)	NOTES
ACCU-1	PUZ-AK24NLHZ	HP-1	2	24,000	26,000	208/230	1	60	24	35	41.34	52.67	14	231	1 THRU 9
ACCU-2	PUZ-AK24NLHZ	HP-2	2	24,000	26,000	208/230	1	60	24	35	41.34	52.67	14	231	1 THRU 9

NOTES:
1. SELECTIONS BASED ON EQUIPMENT MANUFACTURED BY TRANE. SELECTIONS ARE BASIS OF DESIGN ONLY. CONTRACTOR MAY PROVIDE APPROVED EQUAL THAT MEETS THE PERFORMANCE REQUIREMENTS AND SALIENT CHARACTERISTICS OF THE BASIS OF DESIGN.
2. MOUNT CONDENSING UNIT ON CONCRETE PAD ON GRADE. SEE MECHANICAL DETAILS FOR MORE INFORMATION.
3. PROVIDE POWER DISCONNECT SWITCH, ANTI-SHORT CYCLE TIMER AND CONDENSER COIL GUARD.
4. PROVIDE FACTORY BRANCH JOINTS AS REQUIRED TO ACCOMMODATE OVERALL SYSTEM CONNECTIONS AND OPERATION. COORDINATE INSTALLATION HARDWARE REQUIREMENTS WITH MANUFACTURER.
5. UNIT SHALL BE SUITABLE FOR LOW AMBIENT TEMPERATURES DOWN TO 0-F.
6. UNIT SELECTION BASED ON 95°F AMBIENT AIR CONDITIONS.
7. UNIT SHALL USE REFRIGERANT R-32 OR R-454B.
8. PROVIDE ALL REQUIRED CONTROLS COMPONENTS (CONTROLLERS, SENSORS, CONTROL AND POWER WIRING, CONTROL TRANSFORMERS, ETC.) REQUIRED FOR A COMPLETE INSTALLATION.
9. MANUFACTURER INSTALLED, CODE COMPLIANT, REFRIGERANT DETECTOR AND CORRESPONDING CONTROLS SEQUENCES FOR REFRIGERANT LEAK.

HEATPUMP "DX VRF SPLIT SYSTEM" UNIT SCHEDULE (HP)

UNIT ID	MODEL NUMBER	TYPE	INTERLOCKED WITH	SUPPLY AIR FAN RANGE (CFM) (LOW / MED / HIGH)	OUTSIDE AIR (CFM) (PRE-TREATED)	NOMINAL COOLING CAPACITY (BTUH)	NOMINAL HEATING CAPACITY (BTUH)	ELECTRICAL CHARACTERISTICS VOLTS	PHASE	HERTZ	MCA	MOCP (AMPS)	DIMENSIONS DEPTH (INCH)	WIDTH (INCH)	HEIGHT (INCH)	WEIGHT (LBS.)	NOTES
HP-1	PKA-AK24NL	WALL MOUNTED	ACCU-1	635 / 705 / 775	N/A	24,000	26,000	208/230	1	60	24	35	46.06	11.63	14.38	46	1 THRU 7
HP-2	PKA-AK24NL	WALL MOUNTED	ACCU-2	635 / 705 / 775	N/A	24,000	26,000	208/230	1	60	24	35	46.06	11.63	14.38	46	1 THRU 7

NOTES:
1. SELECTIONS BASED ON EQUIPMENT MANUFACTURED BY TRANE. SELECTIONS ARE BASIS OF DESIGN ONLY. CONTRACTOR MAY PROVIDE APPROVED EQUAL THAT MEETS THE PERFORMANCE REQUIREMENTS AND SALIENT CHARACTERISTICS OF THE BASIS OF DESIGN.
2. UNIT SHALL BE WALL MOUNTED TYPE WITH MODULATING SUPPLY AIR LOUVER DISCHARGE, TOP RETURN AIR GRILLE INTAKE AND FACTORY WALL SUPPORT PLATE.
3. PROVIDE DISCONNECT SWITCHES FOR ALL EQUIPMENT.
4. UNIT SHALL HAVE MANUFACTURERS INTEGRAL FACTORY CONDENSATE PUMP ASSEMBLY. PROVIDE MINI-CONDENSATE PUMP ASSEMBLY FOR WALL MOUNTED UNITS CONCEALED IN UNIT (OR IN ENGINEERED DECORATIVE WALL CAP)
5. PROVIDE FACTORY WALL MOUNTED "SIMPLIFIED" TEMPERATURE CONTROLLER MODEL CIS01 (WIRED TYPE).
6. PROVIDE ALL REQUIRED CONTROLS COMPONENTS (CONTROLLERS, SENSORS, CONTROL AND POWER WIRING, CONTROL TRANSFORMERS, ETC.) REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE H-LINK ADAPTOR FOR CENTRAL CONTROLLER TIE-IN.
7. MANUFACTURER INSTALLED, CODE COMPLIANT, REFRIGERANT DETECTOR AND CORRESPONDING CONTROLS SEQUENCES FOR REFRIGERANT LEAK.

DIFFUSER AND REGISTER SCHEDULE

UNIT ID	MODEL	FACE SIZE	NECK SIZE	DESCRIPTION	REMARKS
A	ASCD	24x24	SEE TABLE 1	ALUMINUM CONSTRUCTION 3-CONE CEILING DIFFUSER WITH OPPOSED BLADE VOLUME DAMPER.	1 THROUGH 7
B	630	12x12	10x10	ALUMINUM RETURN GRILLE WITH FIXED 45 DEGREE LOUVERS AND 3/4" SPACING WITH OPPOSED BLADE VOLUME DAMPER.	1,3,5,6
C	ASCD	12x12	4" DIAMETER	ALUMINUM CONSTRUCTION 3-CONE CEILING DIFFUSER WITH OPPOSED BLADE VOLUME DAMPER.	1 THROUGH 7

NOTES:
1. SELECTIONS ARE BASED ON PRICE INDUSTRIES. EQUALS SHALL BE TITUS, CARNES, KRUEGER
2. BRANCH DUCTS AND FLEXIBLE DUCTS CONNECTING TO THE DIFFUSERS SHALL BE FULL SIZE OF NECK DIAMETER.
3. BAKED ENAMEL FINISH, COLOR TO BE SELECTED BY ARCHITECT.
4. DIFFUSERS SHALL BE 4-WAY BLOW UNLESS OTHERWISE INDICATED ON PLANS.
5. MOUNTING FRAME TYPE SHALL BE COORDINATED WITH CEILING/WALL/DUCT CONSTRUCTION TYPE.
6. REFER TO ARCHITECTS REFLECTED CEILING PLANS FOR FINAL LOCATION OF DIFFUSERS AND GRILLES
7. PROVIDE SQUARE TO ROUND NECK ADAPTERS IF REQUIRED

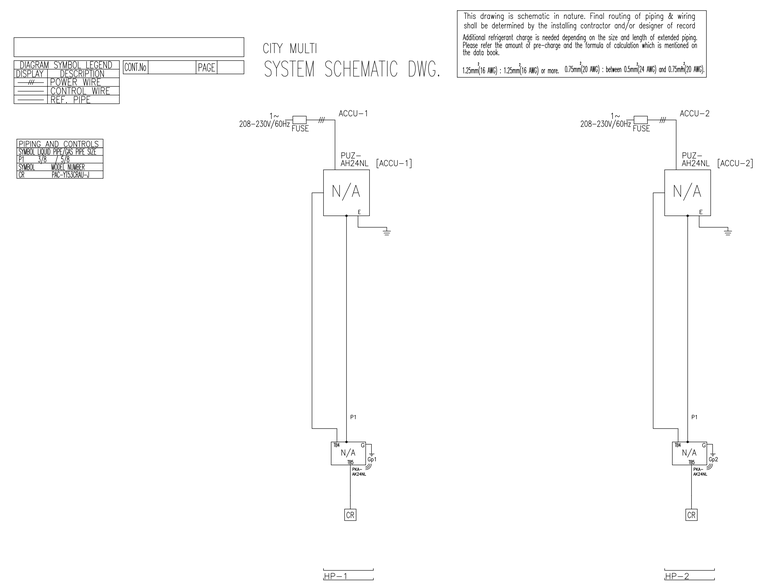
TABLE 1:
UP TO 275 CFM - 8" DIAMETER
276 TO 380 CFM - 10" DIAMETER
381 TO 500 CFM - 12" DIAMETER
501 TO 700 CFM - 14" DIAMETER
701 TO 901 CFM - 15" DIAMETER

ELECTRIC DUCT HEATER SCHEDULE (EDH)

UNIT ID	SERVING	MODEL	CFM	KW	STAGES	EAT	LAT	VOLTS	PH
EDH-1	LATRINES	EK-2008005SCCHR	710	5	SCR	53	75	208	1

NOTES
1. SELECTIONS BASED ON RENEWAIRE.
2. CONTRACTOR SHALL COORDINATE DUCT SIZE WITH MANUFACTURER'S MINIMUM AIRFLOW VELOCITY REQUIREMENTS
3. AUTOMATIC RESET THERMAL CUTOUT
4. AIRFLOW SWITCH
5. DOOR INTERLOCK DISCONNECT SWITCH
6. SCR CONTROL
7. PROVIDE SLIP-IN ARRANGEMENT
8. UNIT ENABLING SHALL BE INTERLOCKED WITH ASSOCIATED HP UNIT OPERATION. PROVIDE DISCHARGE AIR DUCT TEMPERATURE SENSOR INTERLOCKED WITH COIL HEATING FOR CONTROL OPERATION (SET FOR MAINTINING 75°F SUPPLY AIR DISCHARGE TEMPERATURE). PROVIDE ALL CONTROL WIRING AND COMPONENTS REQUIRED FOR FULL OPERATION (RELAYS, 24V TRANSFORMERS, LINE VOLTAGE WIRING, ETC.)

01 / M3.1 MECHANICAL EQUIPMENT SCHEDULES
NONE



02 / M3.1 MECHANICAL CONTROLS AND PIPING DIAGRAMS
NONE

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DATE: 3/31/26
KSI PROJECT # 2502M 27
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NUMBER: 45158000

Department of Community Affairs
Construction Project Review
Project No: 9050-26
partial release
mechanical
Thomas Williams
Released: 4/22/2026
N.J.S.A. 52:27D-119 ET SEQ., AS AMENDED

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LATRINE ALTERATIONS FOR:
MT HOLLY ARMORY
1670 NJ-38
MT HOLLY, NEW JERSEY 08060
DMA PROJECT NO. MH008

REV.:	DATE:	DESCRIPTION:

MECHANICAL SCHEDULES, CONTROLS AND PIPING DIAGRAMS

PROJECT NO.: 2557
DRAWN BY: KM
DATE ISSUED: 3/30/26
SHEET NO.:
M3.1

ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE, THE NFPA, N.J.A.C. AND THE INTERNATIONAL BUILDING CODE.
2. THE CONTRACTOR MUST HAVE THE H.V.A.C., FIRE PROTECTION AND PLUMBING DRAWINGS FOR LOCATIONS OF EQUIPMENT AND CONTROL WIRING REQUIREMENTS. ONLY POWER FEEDER TO MECHANICAL EQUIPMENT ARE SCHEDULED ON THE ELECTRICAL DRAWINGS. FURNISH AND INSTALL ALL CODE REQUIRED DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT UNLESS SPECIFIED ON MECHANICAL DRAWINGS TO BE SUPPLIED BY MANUFACTURER. PROVIDE FUSED SWITCHES WHEREVER MANUFACTURER REQUIRES THEM.
3. ALL TELEPHONE/DATA WIRING IS BY THE OWNER.
4. CONDUCTOR SIZES(PHASE AND BOND) SHALL BE INCREASED DUE TO DERATING AND VOLTAGE DROP REQUIREMENTS AS NECESSARY. USE A MINIMUM #10 AWG FOR 20 AMPERE CIRCUITS AS FOLLOWS; 120V. – OVER 120', 208V. – OVER 210', 277V. – OVER 279', 480V. – OVER 484'(BASED ON LOAD AT MIDPOINT OF BRANCH CIRCUIT RUN @ 60% OF RATED LOAD). USE #8 FOR 20A. CIRCUITS @ 277V, FROM 211' TO 334', AND 20A CKTS @ 120V. FROM 191' TO 301'.(FOR #8 PROVIDE AND INSTALL SPLICE/TAP J-BOX BEFORE CONNECTION TO LOAD AND TRANSFER TO #12AWG FOR CONNECTION TO DEVICE TERMINALS).
5. PANELBOARD LOCKS SHALL BE KEYED IN ACCORDANCE TO OWNER REQUIREMENTS.
6. CONTRACTOR SHALL CONFIRM AVAILABLE SHORT CIRCUIT WITH THE UTILITY COMPANY.
7. SEPARATE NEUTRALS SHALL BE RUN FOR ALL CIRCUITS UTILIZING SWITCH MODE POWER SUPPLIES(EG. COMPUTERS, FLUORESCENT LIGHTING, ETC.).
8. AS-BUILTS SHALL BE PROVIDED WITHIN 30 DAYS OF SYSTEM ACCEPTANCE, INCLUDING BUT NOT LIMITED TO SINGLE-LINE OF ELECTRICAL DISTRIBUTION SYSTEM AND FLOOR PLAN WITH LOCATIONS OF DISTRIBUTION EQUIPMENT AND AREAS SERVED BY THAT EQUIPMENT.(ASHRAE/IESNA STANDARD 90.1-1999.)
9. O & M MANUALS MUST BE PROVIDED FOR THE ELECTRICAL DISTRIBUTION SYSTEM, INCLUDING BUT NOT LIMITED TO NAMEPLATE RATINGS, SCHEDULED MAINTENANCE, SPECIFIC EQUIPMENT SUPPLIED, NAMES AND ADDRESSES OF QUALIFIED SERVICE AGENCIES, COMPLETE NARRATIVE AND SCHEMATIC OF SYSTEM IN NORMAL OPERATION.(ASHRAE/IESNA STANDARD 90.1-1999.)
10. THE ELECTRICAL CONTRACTOR IS TO VERIFY CEILING TYPE AND SPACE LIMITATIONS PRIOR TO ORDERING FIXTURES.

ELECTRICAL SYMBOL LEGEND

(DEVICE AND EQUIPMENT MOUNTING HEIGHTS ARE AS LISTED ON DRAWING AND/OR DESCRIBED IN SPECIFICATIONS UNLESS ITEMIZED BY ARCHITECTURAL DOCUMENTS.)

SYMBOL	DESCRIPTION (NOT ALL SYMBOLS ARE REPRESENTED ON DRAWINGS)
a,3	CEILING OR PENDANT MOUNTED FLUORESCENT FIXTURE AND OUTLET. a = SWITCH CONTROL. 3 = CIRCUIT NUMBER – TYPICAL FOR ALL FIXTURES.
	FIXTURE WITH BUILT IN BATTERY. U.O.N.
	PENDANT OR CEILING MOUNTED LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE, BATTERY BACK-UP.
	CEILING MOUNTED EXIT SIGN, WALL MOUNTED EXIT SIGN. 90" TO BOTTOM OF SIGN OR CENTERED ON WALL AREA BETWEEN TOP OF DOOR AND CEILING. ARROWS AS INDICATED, SHADED AREA INDICATES FACE(S).
	LED EXIT SIGN WITH BATTERY PAK AND LOCAL EMERGENCY HEADS.
A X	LIGHT FIXTURE, A=LIGHTING FIXTURE TYPE, X=CIRCUIT NUMBER
3	DUPLEX CONVENIENCE RECEPTACLE 20A. 125V. MOUNTED 1'-4" A.F.F. TO CENTER. U.O.N. 3-CIRCUIT NUMBER. CH=ABOVE COUNTER HEIGHT AT 44" MAX TO ABOVE COUNTERS WHICH ARE 20"-25" DEEP. U.O.N.
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER HEIGHT.
	GROUND FAULT RECEPTACLE
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER HEIGHT WITH GROUND. (GFI)
	COMBINATION TELE/COMM OUTLET W/ 1" CDT. RUN TO ABOVE ACCESSIBLE CEILING SPACE 1'-4" AFF TO OF DEVICE. PROVIDE PULLSTRING AND END BUSHINGS(NUMBER REPRESENTS # OF KEYSTONES IF NOT TYPICAL).
J	JUNCTION BOX, CEILING OR WALL MOUNTED AS NOTED, ELECTRICAL CONTRACTOR TO MAKE ALL REQUIRED CONNECTIONS TO DESIGNATED EQUIPMENT.
	PANEL BOARD (LIGHTING OR RECEPTACLE) SURFACE MOUNTED
	PANEL BOARD (LIGHTING OR RECEPTACLE) RECESSED
	GROUND ROD
M	ELECTRIC METER
F	FIRE ALARM MANUAL PULL STATION – 48"A.F.F. TO TOP OF DEVICE.
F	COMBINATION FIRE ALARM HORN STROBE (ADA) AS PER SPECIFICATIONS – 80" A.F.F TO BOTTOM OF DEVICE 15/75 CD MINIMUM. U.O.N.(TYPICAL).
F LT	FIRE ALARM STROBE (ADA) – 80" AFF TO BOTTOM OF DEVICE 15/75 CD MINIMUM. U.O.N.(TYPICAL).
SD	FIRE ALARM SMOKE DETECTOR (PHOTOELECTRIC UNLESS OTHERWISE NOTED), (I= IONIZATION) (ADDRESSABLE) CEILING MOUNTED.
HD	FIRE ALARM HEAT DETECTOR – FIXED TEMP/RATE TO RISE. U.O.N.
DD	FIRE ALARM DUCT SMOKE DETECTOR(ADDRESSABLE)
WF	SPRINKLER WATER FLOW SWITCH
TS	SPRINKLER TAMPER SWITCH
LED	REMOTE LED ANNUNCIATOR PANEL
	EXPOSED CONDUIT OR CABLE
	CONCEALED CONDUIT OR CABLE
	DISCONNECT SWITCH

ELECTRICAL ABBREVIATION LEGEND

ABBREVIATION	DESCRIPTION
A	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AWG	AMERICAN WIRE GAGE
C	CONDUIT
CAHU	COMPUTER AIR HANDLING UNIT
CB	CIRCUIT BREAKER
CH	ABOVE COUNTER HEIGHT
CKT	CIRCUIT
DC	DIRECT CURRENT
D/S	DISCONNECT SWITCH
E	EXISTING
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF PUSHBUTTON
ER	EXISTING TO BE RELOCATED
FACP	FIRE ALARM CONTROL PANEL
FGB	FRAME GROUND BUS
G	GROUND
GFI	GROUND FAULT CIRCUIT INTERRUPTER
IG	ISOLATED GROUND
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT – AMPERE
KW	KILOWATT
LP	LIGHTING PANEL
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MGB	MAIN GROUND BUS
MLO	MAIN LUGS ONLY
N	NEW
ø	PHASE
PNL	PANEL
PP	POWER PANEL
PVC	POLY VINYL CHLORIDE CONDUIT
R	RELOCATED IN NEW POSITION
RP	RECEPTACLE PANEL
SW	SWITCH
V	VOLT
XFMR	TRANSFORMER

Controls Legend

RR BRIDGE
POE SWITCH ID
POE PORT ID
BRIDGE ID

*Bridge module example reference.

- * LV connection line is low voltage 18–22 AWG
- * CAT5 connection line is CAT5 cable for SP protocol
- * HubbNET connection line is powered CAT5 network cable
- * FX Bus connection line is CAT5 cable for FX protocol
- * LNV connection line represents line voltage
- * LV–LNV connection represents line and low voltage

*Connection line types are for reference only and may not be shown on drawings.

FX1 — NXRCFX2-1RD-UNV
NX ROOM CONTROLLER, FX, 1 RELAY, 0 - 10V DIMMING, POWER MONITORING, UNIVERSAL VOLTAGE

NXD — NXSMDT-OMNI
NX SENSOR MODULE, DUAL TECH, 360° LENS, WHITE

ORLO NX — NXSWR-ORLO-WH
NX DIGITAL SWITCH STATION, ON/RAISE/LOWER/OFF

PANEL RP-1A SCHEDULE — COMMENTS: NEW PANEL — 200A MAIN CIRCUIT BREAKER
PANEL LOCATION: BOILER ROOM — NUMBER OF POLES: 42
208/120 VOLTS, 3 PHASE, 4 WIRE — 200A BUS SIZE — PANEL SHORT CIRCUIT RATING: 42 KAIC

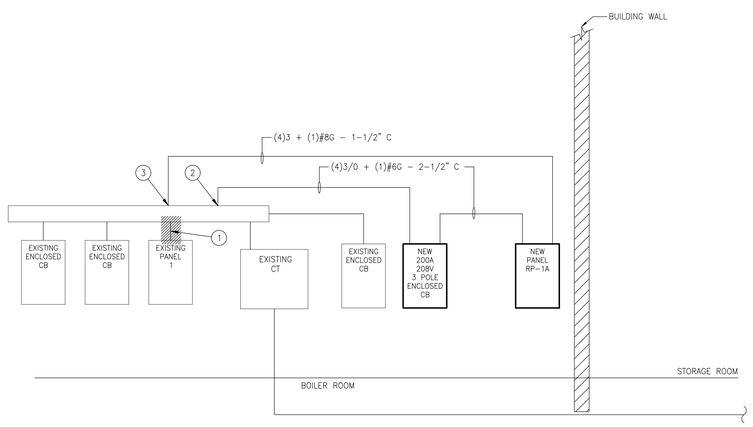
C.B. POLE NO.	C.B. TRIP AMPS	C.B. LOAD VA	LOAD DESCRIPTION	CIR NO	FDR.DATA No.	FDR.DATA WIRE	FDR.DATA GND	FDR.DATA COND	PHASE A	PHASE B	PHASE C	FDR.DATA No.	FDR.DATA WIRE	FDR.DATA GND	FDR.DATA COND	CIR NO	LOAD DESCRIPTION	C.B. LOAD VA	C.B. TRIP AMPS	C.B. POLE NO.
2	35	2,496	HP-1	1	2	8	10	3/4	4992			2	8	10	3/4	2	HP-1	2,496	35	2
		2,496		3						4992						4		2,496		
2	35	2,496	ACCU-1	5	2	8	10	3/4			4992	2	8	10	3/4	6	ACCU-2	2,496	35	2
		2,496		7					4992							8		2,496		
2	15	1,175	ERV-1	9	2	12	12	3/4		1355		2	12	12	3/4	10	MEN'S TOILET RECEPTACLE	180	20	1
		1,175		11							1355	2	12	12	3/4	12	MEN'S TOILET RECEPTACLE	180	20	1
2	30	2,500	EDH-1	13	2	10	10	3/4	3250			2	12	12	3/4	14	MEN'S TOILET HAND DRYER	750	20	1
		2,500		15						2680		2	12	12	3/4	16	WOMEN'S TOILET RECEPTACLE	180	20	1
1	20	200	WH-1 & CP-1	17	2	12	12	3/4			380	2	12	12	3/4	18	WOMEN'S TOILET RECEPTACLE	180	20	1
1	20	180	UNISEX TOILET RECEPTACLE	19	2	12	12	3/4	930			2	12	12	3/4	20	WOMEN'S TOILET HAND DRYER	750	20	1
1	20	750	UNISEX TOILET HAND DRYER	21	2	12	12	3/4		750						22	SPARE		20	1
1	20		SPARE	23							0					24	SPARE		20	1
1	20		SPARE	25					0							26	SPARE		20	1
1	20		SPARE	27						0						28	SPARE		20	1
1	20		SPARE	29							0					30	SPARE		20	1
1	20		SPARE	31					0							32	SPARE		20	1
1	20		SPARE	33						0						34	SPARE		20	1
			SPACE	35							0					36	SPACE			
		7200		37					7200							38	SPACE			
3	70	7200	EXISTING PANEL 1	39	4	3	8	1-1/2		7200						40	SPACE			
		7200		41							7200					42	SPACE			
MOUNTING:			SURFACE		PH-LOAD				21364	16977	13927	VA					PANEL TYPE : NEMA 1, WITH			
FED FROM:			EXISTING		CONNECTED LOAD					52	KVA					145	AMPS GROUNDING TERMINAL 100% NEUTRAL			

01 E0.1 — ## ELECTRICAL PANEL SCHEDULE
NONE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG #	VOLT	MOUNTING	CONTROL
A	2X2 LED PANEL WITH ADJUSTABLE LUMENS AND COLOR TEMP PROVIDE WITH EM BATTERY WHERE SHOWN	COLUMBIA OR APPROVED EQUAL	CBT-22-A-LSCS-EDD	UNV	LAY IN	LOCAL/ OCC/
B	4" LED RECESSED DOWNLIGHT WITH SHOWER TRIM	USAI OR APPROVED EQUAL	B4RD-F-16C3-35KS-50-S-WH-WH-FT-UNV-D6E	UNV	RECESSED	LOCAL/ OCC/
C	4' VANDAL RESISTANT EXTRUDED ALUMINUM LED FIXTURES	KENALL OR APPROVED EQUAL	MLHA12-48-R-MW-PP-45L35K-DCC-1-DV-LEL	UNV	SURFACE	LOCAL/ OCC/
E	DIE-CAST EXIT SIGN EMERGENCY LIGHTING FIXTURE WITH INTEGRAL BATTERY	COMPASS OR APPROVED EQUAL	CCESRE	UNV	WALL	LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING

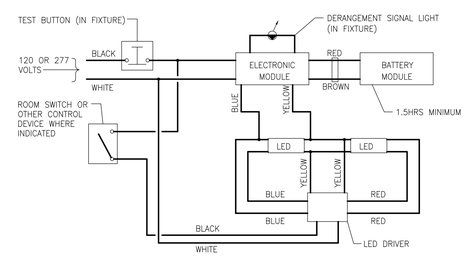
LIGHTING FIXTURE SCHEDULE NOTES:
1. PROVIDE ACCESSORIES FOR SEISMIC CONSIDERATIONS PER LOCAL CODES.
2. PROVIDE ALL NECESSARY MOUNTING HARDWARE.
3. CONFIRM ALLOWABLE MOUNTING SPACE ABOVE CEILING PRIOR TO ORDERING FIXTURES

02 E0.1 — ## LIGHTING FIXTURE SCHEDULE
NONE



NOTES:
1. DISCONNECT EXISTING PANEL 1 FROM THE TROUGH AND REMOVE CONDUCTORS AND CONDUIT.
2. TAP SERVICE CONDUCTORS IN TROUGH FOR THE NEW 200A ENCLOSED CIRCUIT BREAKER.
3. REFEED EXISTING PANEL 1 FROM NEW PANEL RP-1A.

03 E0.1 — ## ELECTRICAL PARTIAL RISER DIAGRAM
NONE



NOTES:
1. WHERE INDICATED ON DRAWINGS THAT A FIXTURE IS CONTROLLED BY A LOCAL SWITCH, FIXTURE SHALL BE WIRED TO SHUT OFF WHEN SWITCH IS OFF. BATTERY MODULE IS ALWAYS HOT.
2. REFER TO MANUFACTURER'S WIRING DIAGRAM FOR ACTUAL CONDUCTOR COUNTS.
3. WHERE LIGHTING CONTROL SYSTEM IS APPLIED, THE BATTERY BALLAST MUST BE WIRED AHEAD OF SYSTEM RELAY.

04 E0.1 — ## EMERGENCY LIGHTING WIRING DIAGRAM
NONE

Department of Community Affairs
Construction Project Review
Project No: 9050-26
PARTIAL RELEASE
ELECTRICAL
David Godbolt
Released: 4/14/2026
N.J.S.A. 52:27D-119 ET SEQ., AS AMENDED

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CERTIFICATE OF AUTHORIZATION No. AC33200

LATRINE ALTERATIONS FOR:
MT HOLLY ARMORY
1670 NJ-38
MT HOLLY, NEW JERSEY 08060
DMA PROJECT NO. MH008

REV.:	DATE:	DESCRIPTION:

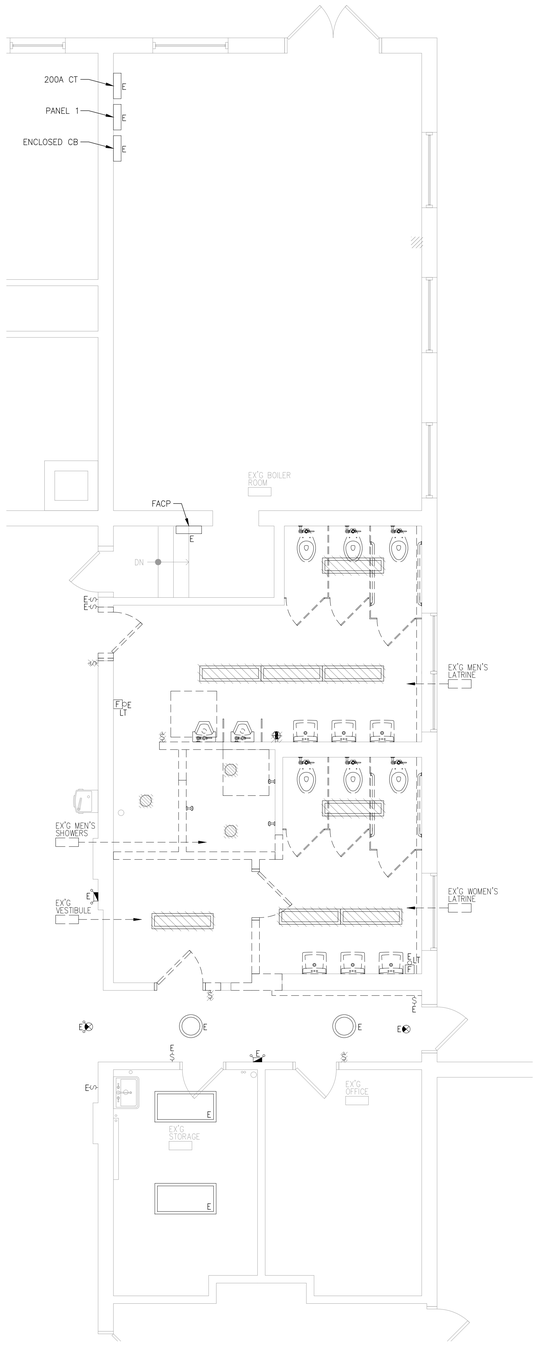
KSI CONSULTING ENGINEERS, LLC
ADDRESS: P.O. BOX 628 FARMINGDALE, NJ 07727
PHONE: 732.938.2666
FAX: 732.938.2521
CERTIFICATE OF AUTHORIZATION NO.: 24GA28124300
PAUL RIPSH, P.E.
Professional Engineer
State of New Jersey
STATE OF NEW JERSEY PAUL S. RIPSH 24GE04515800 LICENSED PROFESSIONAL ENGINEER
DATE: 3/31/26
KSI PROJECT # 250204 27
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NUMBER: 45158800

ELECTRICAL GENERAL INFORMATION

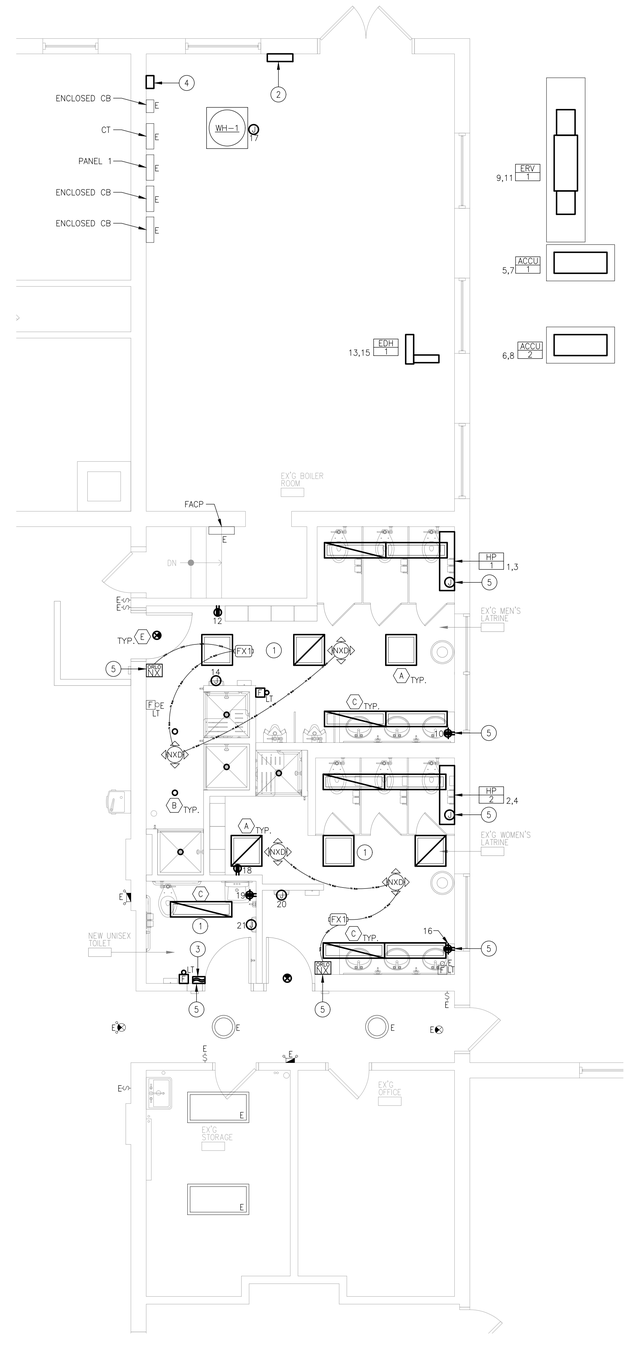
PROJECT NO.: 2557 — DRAWN BY: AJC

DATE ISSUED: 3/30/26

SHEET NO.: E0.1



01 E1.1 ELECTRICAL DEMOLITION PART PLAN
1/4"=1'-0"



02 E1.1 ELECTRICAL NEW WORK PART PLAN
1/4"=1'-0"

KEY NOTES

1. CIRCUIT NEW LIGHTING FIXTURE TO THE LOCAL LIGHTING CIRCUIT WITH NEW CONTROL WITH (2)#12+(1)#12G-3/4"C.
2. PROPOSED NEW PANEL RP-1A.
3. COMBINATION WALL MOUNTED OCCUPANCY SENSOR SWITCH SHALL BE MODEL WS1000W AS MANUFACTURED BY HUBBELL.
4. PROPOSED LOCATION FOR THE NEW 200A, ENCLOSED CIRCUIT BREAKER. COORDINATE FINAL LOCATION WITH THE OWNER AND ARCHITECT.
5. CONTRACTOR SHALL SAW CUT EXISTING CMU WALL TO RECESS ALL CONDUIT AND JUNCTION BOXES WITHIN WALL AT THIS LOCATION. REFER TO THE ARCHITECT'S DRAWINGS FOR PATCHING OF WALL REQUIREMENTS.

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID. NO ADDITIONAL COMPENSATION SHALL BE CONSIDERED FOR FAILURE TO OBSERVE THIS REQUIREMENT.
2. THE CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ELECTRICAL WIRING AND EQUIPMENT AS REQUIRED WITHIN ALL AREAS TO BE RENOVATED. THIS SHALL INCLUDE BUT NOT BE LIMITED TO FIXTURES, DEVICES, OUTLETS, SWITCHES, RECEPTACLES, STARTERS, DISCONNECTS, PANELS, FEEDERS, ETC.
3. THE CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING CIRCUITS TO MECHANICAL EQUIPMENT BEING REMOVED. REFER TO ALL MECHANICAL DEMOLITION DRAWINGS OR NOTES FOR LOCATIONS.
4. WHERE ELECTRICAL ITEMS ARE REMOVED, ALL BRANCH DEVICE'S WIRING SHALL BE REMOVED BACK TO PANEL SERVICING THE EQUIPMENT. WHERE CIRCUITS SERVE ADDITIONAL DEVICES OR EQUIPMENT REMAINING, WIRING SHALL BE REMOVED BACK TO THE NEAREST ACTIVE JUNCTION BOX.
5. THE CONTRACTOR SHALL MAINTAIN CONTINUITY OF EXISTING CIRCUITS THAT ARE TO REMAIN IN OPERATION AND SCHEDULE FOR RE-FEEDING FROM NEW PANELS. FORWARD FINDINGS TO ENGINEER FOR REVIEW AND COORDINATION.
6. ALL UNUSED CIRCUITS REMAINING AFTER REMOVALS SHALL BECOME SPARE IN PANELS AND LABELED AS SPARE.
7. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND SCOPE OF DEMOLITION.
8. ALL MATERIALS AND EQUIPMENT REMOVALS SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER OR THE ARCHITECT.

GENERAL NOTES

1. CIRCUIT EXIT AND EMERGENCY LIGHT FIXTURES TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING WITH 2#12+1#12G IN 3/4" CONDUIT.
2. COORDINATE LOCATION OF ALL DEVICES WITH THE OWNER PRIOR TO ROUGH-IN.
3. ALL DEVICES ARE CIRCUITED TO PANEL RP-1A UNLESS OTHERWISE NOTED.

Department of Community Affairs
Construction Project Review
Project No: 9050-26
PARTIAL RELEASE
ELECTRICAL
David Godbolt
Released: 4/14/2026
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CERTIFICATE OF AUTHORIZATION
No. AC33200

LATRINE ALTERATIONS FOR:
MT HOLLY ARMORY
1670 NJ-38
MT HOLLY, NEW JERSEY 08060
DMA PROJECT NO. MH008

REV.:	DATE:	DESCRIPTION:

KSI CONSULTING ENGINEERS, LLC
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PAUL RIPISH, P.E.
Professional Engineer
State of New Jersey
STATE OF NEW JERSEY
PAUL S. RIPISH
24GE04515800
LICENSED
PROFESSIONAL ENGINEER
DATE: 3/31/26
KSI PROJECT # 25020M 27
NEW JERSEY PROFESSIONAL ENGINEER
LICENSE NUMBER: 4515800

ELECTRICAL DEMOLITION & NEW WORK PART PLANS

PROJECT NO.: 2557
DRAWN BY: AJC
DATE ISSUED: 3/30/26
SHEET NO.:
E1.1

PLUMBING GENERAL NOTES

1. DO NOT SCALE FROM THESE DRAWINGS.
2. DO NOT MAKE ANY CHANGES OR SUBSTITUTIONS WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER.
3. ALL INDICATED WORK SHALL BE PERFORMED BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
4. REFER TO THE WRITTEN SPECIFICATIONS IN CONJUNCTION WITH THE PLANS FOR FULL PROJECT SCOPE.
5. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWING TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. IN ADDITION, THIS CONTRACTOR MUST COORDINATE WITH AN OWNER REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
6. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT AND ENGINEER PRIOR TO BID SUBMISSION.
7. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES WHICH MAY BE IN EFFECT. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
8. THE PLUMBING CONTRACTOR MUST VISIT THE SITE AND NOTE ALL EXISTING CONDITIONS AS WELL AS ALL CONDITIONS TO BE MET, PRIOR TO BID SUBMISSION. LACK OF A THOROUGH UNDERSTANDING OF THE PROJECT SCOPE AND CONDITIONS SHALL NOT CONSTITUTE AN EXCUSE FOR ERRORS OR OMISSIONS, NOR FOR A REQUEST FOR EXTRA COMPENSATION.
9. IT IS CRITICAL THAT THE PLUMBING CONTRACTOR FIELD VERIFIES ALL EXISTING INVERTS PRIOR TO BID SUBMISSION. IF ANY CONFLICTS EXIST BETWEEN THE NEW PLUMBING SYSTEMS AND THE EXISTING SITE LEVEL SYSTEMS, THEY SHOULD BE BROUGHT TO THE ATTENTION OF AN OWNER'S REPRESENTATIVE AND THE ENGINEER PRIOR TO BID SUBMISSION. EXTRA COMPENSATION WILL NOT BE ALLOWED FOR ANY EXTRA WORK WHICH RESULTS FROM AN INABILITY TO MEET THE INVERTS OF THE EXISTING SITE LEVEL PIPING SYSTEMS.
10. THE PLUMBING CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS-BUILT" DRAWINGS INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT CONCEALED OR EMBEDDED PIPING, PIPING CONNECTIONS AND ACCESS DOORS. THESE DRAWINGS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM BID DOCUMENTS.
11. RUN ALL DOMESTIC, WASTE & VENT PIPING AS HIGH AS POSSIBLE THROUGHOUT ENTIRE BUILDING. INSTALL LONG RUNS OF PIPING WITHIN STEEL (JOIST) SPACE AND OTHER PIPING TIGHT TO BOTTOM OF STEEL. COORDINATE AND VERIFY WITH OTHER CONTRACTORS AS NOT TO INTERFERE WITH DUCTWORK, FIRE PROTECTION PIPING, LIGHTING SYSTEMS, ETC.
12. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS. VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND THEIR FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES, WALLS, SOFFITS WITH OTHER MECHANICAL/ELECTRICAL FEEDS. ALL SUCH LOCATIONS ARE TO BE REVIEWED WITH A OWNER REPRESENTATIVE AND ARCHITECT PRIOR TO INSTALLATION.
13. ALL PLUMBING FIXTURES/APPLIANCES SHALL HAVE THEIR OWN INDEPENDENT SHUT-OFF VALVES, INSTALLED IN AN EASILY ACCESSIBLE AND CONVENIENT LOCATION.
14. ALL DOMESTIC WATER BRANCH LINES SHALL HAVE THEIR OWN RESPECTIVE SHUT-OFF VALVES.
15. DOMESTIC HOT WATER HEATER TEMPERATURE/PRESSURE RELIEF VALVES SHALL BE PIPED FULL SIZE TO THE NEAREST APPROVED STANDPIPE OR FLOOR DRAIN. THIS REQUIREMENT SHALL BE APPLICABLE TO ALL DOMESTIC WATER HEATERS EXCEPT INSTANTANEOUS WATER HEATERS.
16. ALL PLUMBING VENT LINES NOTED AS "V. UP" OR "VENT UP" SHALL BE CONNECTED TO THE NEAREST APPROVED "V.T.R." OR "VENT THRU ROOF."
17. PRIOR TO INSTALLING SYSTEMS, THE PLUMBING CONTRACTOR SHALL MEET WITH THE ARCHITECTS REPRESENTATIVE TO FIELD VERIFY THE EXACT LOCATION OF ALL PROPOSED EQUIPMENT WHICH MAY NOT BE CLEARLY INDICATED ON THE DRAWINGS.
18. PROVIDE C.O.'S AT THE BASE OF ALL SANITARY AND STORM STACKS.
19. SANITARY SEWER PIPING SHOWN IS BASED ON .25" PER FOOT FALL FOR ALL PIPING SMALLER THAN 4", AND .125" PER FOOT FALL FOR ALL PIPING 4" AND LARGER.
20. PROVIDE ALL SAW CUTTING AND PATCHING AS REQUIRED TO ACCOMMODATE ALL NEW PIPING AND FIXTURE INSTALLATION.
21. LEAD FREE REQUIREMENT: PRODUCTS DESIGNED FOR DISPENSING POTABLE WATER SHALL MEET NSF 61 AND NSF 372 TEST STANDARDS VIA THIRD-PARTY TESTING AND CERTIFICATION.

DEMOLITION NOTES

1. ALL PIPING AND EQUIPMENT TO BE REMOVED SHALL BE REMOVED BACK TO NEAREST STACK, RISER, OR MAIN IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS/STANDARDS, CODES AND AUTHORITY HAVING JURISDICTION.
2. REMOVE ANY ABANDONED AND/OR UNUSED PIPING DISCOVERED DURING DEMOLITION. THERE SHALL BE NO DEAD-ENDS GREATER THAN 24 INCHES IN ANY PLUMBING PIPING SYSTEMS.
3. DURING DEMOLITION ANY DAMAGES DISCOVERED IN EXISTING PIPING TO REMAIN SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. ALL EXISTING PIPING AND APPURTENANCES TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION. ANY DAMAGES INCURRED SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER.
5. THE CONTRACTOR SHALL COORDINATE, NOTIFY, AND SCHEDULE ALL REMOVALS WITH THE OWNER PRIOR TO PROCEEDING WITH THE WORK.
6. THIS CONTRACTOR SHALL INCLUDE ALL COSTS FOR REMOVAL AND RELOCATIONS IN THE CONTRACT.
7. THE CONTRACTOR PRIOR TO BID SHALL VISIT THE SITE, EXAMINE THE EXISTING CONDITIONS, DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO BIDDING. CONTRACTOR WILL BE RESPONSIBLE FOR ANY UNREPORTED DISCREPANCIES.
8. THE CONTRACTOR SHALL COORDINATE ALL SHUTDOWNS AND IDENTIFY ANY WORK WHICH MAY BE REQUIRED TO BE PERFORMED ON OVERTIME IN ORDER NOT TO DISTURB OCCUPIED SPACES WHICH ARE NOT WITHIN THE SCOPE OF THIS CONTRACT. OBTAIN WRITTEN APPROVAL OF THE OWNER PRIOR TO PERFORMING ANY SHUTDOWNS OR PERFORMING WORK ON ON OVERTIME.
9. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION AND PHASING SEQUENCE.
10. CONTRACTOR TO MAINTAIN UTILITY SYSTEMS OPERATIONAL DURING CONSTRUCTION. CONTRACTOR TO PROVIDE TEMPORARY MEASURES TO MAINTAIN SYSTEMS IN THE COST OF THE BID.
11. CONTRACTOR TO PATCH ALL HOLES, PENETRATIONS, AND ABANDONED HOLES CREATED BY RENOVATIONS. PATCH WALL AND FLOOR SLABS TO MATCH ADJACENT SURFACES.

PLUMBING SYMBOLS

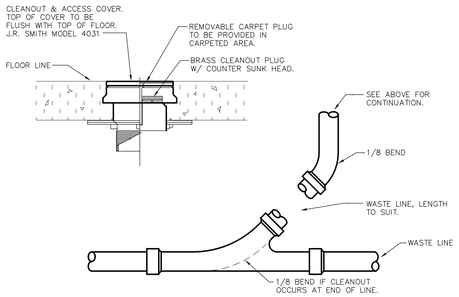
—S—	SANITARY WASTE
- - - - - -	VENT LINE
—G—	NATURAL GAS
	COLD WATER
	HOT WATER
	HOT WATER RETURN
—PD—	PUMP DISCHARGE
	BALL VALVE
	CHECK VALVE
	BALANCING VALVE
	GAS PRESSURE REGULATOR
	CLEAN OUT DECK PLATE
	HORIZONTAL CLEANOUT
	GAS COCK
	GAS SOLENOID VALVE
	FLOOR DRAIN
	P TRAP
	TRAP
	PIPE DOWN, DROP & RISE
	PIPE UP
	TEE PLAN UP
	TEE PLAN DOWN
1	KEY NOTE
	CONNECT TO EXISTING

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT.

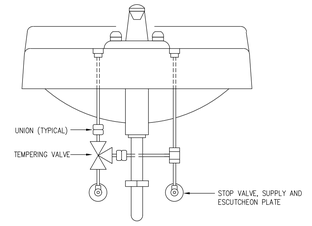
PLUMBING ABBREVIATIONS

A.F.W.H.	ANTI-FREEZE WALL HYDRANT
A.D.	ACCESS DOOR
A.F.F.	ABOVE FINISHED FLOOR
B.F.P.	BACK FLOW PREVENTOR
CA	COMPRESSED AIR
CO.	CLEAN OUT
C.O.D.P.	CLEAN OUT DECK PLATE
D.I.	DRAINAGE INLET
EXIST.	EXISTING
E.W.C.	ELECTRIC WATER COOLER
F.A.I.	FRESH AIR INLET
FD.	FLOOR DRAIN
G.E.	GRADE ELEVATION
H.B.	HOSE BIBB
I.E.	INVERT ELEVATION
LAV.	LAVATORY
LDR.	LEADER
N.C.	NORMALLY CLOSED
N.I.C.	NOT IN CONTRACT
O.F.	OVERFLOW LEADER
O.R.D.	OVER-FLOW ROOF DRAIN
O.W.	OIL WASTE
R.D.	ROOF DRAIN
S.	SANITARY
S.A.	SHOCK ARRESTOR
SK.	SINK
S.S.	SERVICE SINK
ST	STORM DRAINAGE
T.E.	TOP ELEVATION
UR.	URINAL
VAC	VACUUM
V.B.	VACUUM BREAKER
V.T.R	VENT THRU ROOF
W.	WASTE
W.C.	WATER CLOSET
W.C.O.	WALL CLEAN OUT

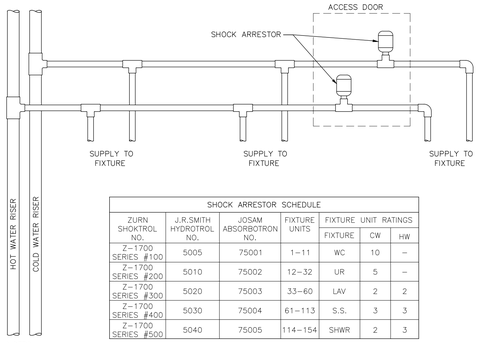
NOTE: NOT ALL ABBREVIATIONS ARE USED ON THIS PROJECT.



01 P0.1 **TYPICAL FLOOR CLEANOUT DETAIL**
N.T.S.



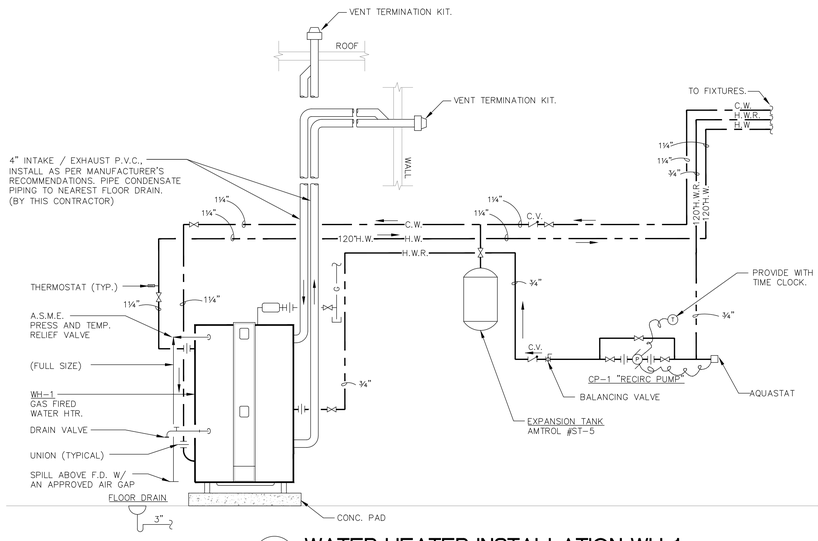
02 P0.1 **POINT OF USE TEMPERING VALVE**
N.T.S.



SHOCK ARRESTOR SCHEDULE						
ZURN SHOKTROL NO.	J.R.SMITH HYDROTROL NO.	JOSAM ABSORBOTRON NO.	FIXTURE UNITS	FIXTURE UNIT RATINGS		
				FIXTURE	CW	HW
Z-1700 SERIES #100	5005	75001	1-11	WC	10	–
Z-1700 SERIES #200	5010	75002	12-32	UR	5	–
Z-1700 SERIES #300	5020	75003	33-60	LAV	2	2
Z-1700 SERIES #400	5030	75004	61-113	S.S.	3	3
Z-1700 SERIES #500	5040	75005	114-154	SHWR	2	3

NOTES:
1. ARRESTORS SHALL BE ACCESSIBLE FOR REPLACEMENT BY WAY OF ACCESS DOOR.
2. APPROVED ARRESTORS SHALL BE INSTALLED ON WATER DISTRIBUTION SYSTEMS IN WHICH QUICK CLOSING VALVES ARE INSTALLED. MULTIPLE ARRESTOR INSTALLATIONS SHALL BE AS PER P.D.I. STANDARDS.

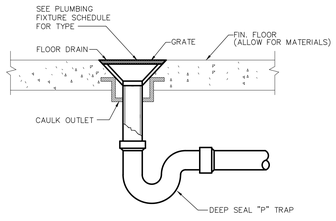
04 P0.1 **SHOCK ARRESTOR DETAIL**
N.T.S.



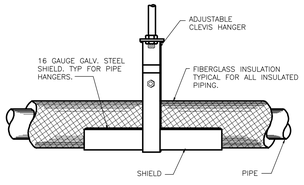
03 P0.1 **WATER HEATER INSTALLATION WH-1**
N.T.S.

PLUMBING FIXTURE SCHEDULE													
NO.	FIXTURE	MFG.	TYPE AND MODEL NO.	TRIM NO.	SUPPLY PIPE NO.	TRAP NO.	SUPPORT NO.	PIPE SIZES					REMARKS
								TRAP	WASTE	VENT	CW	HW	
P-1	WATER CLOSET	AMERICAN STANDARD	MADERA 2234.001	SLOAN ROYAL 111-1.28	–	–	–	–	4"	2"	1"	–	ELONGATED OPEN FRONT SEAT. 1.28 G.P.F.
P-1A	WATER CLOSET (ACCESSIBLE)	AMERICAN STANDARD	MADERA 3461.001	SLOAN ROYAL 111-1.28	–	–	–	–	4"	2"	1"	–	ELONGATED OPEN FRONT SEAT. 1.28 G.P.F.
P-2	LAVATORY	AMERICAN STANDARD	AQUALYN 0476.028	SYMMONS S-20-2-0.5	McGUIRE LF	McGUIRE 8090/PRODRAIN	–	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	VITREOUS CHINA LAVATORY, 0.5 GPM FAUCET & MIXING VALVE. ACORN: ST70CP-38-MB, STOPS WITH LOOSE KEY SUPPLIES.
P-2A	LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012	SYMMONS S-20-2-0.5	McGUIRE LF	McGUIRE 8090/PRODRAIN	MIFAB	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	VITREOUS CHINA LAVATORY, 0.5 GPM FAUCET & MIXING VALVE. ACORN: ST70CP-38-MB, STOPS WITH LOOSE KEY SUPPLIES.
P-3	URINAL	AMERICAN STANDARD	WASHBROOK 6590.001	SLOAN ROYAL 186-0.125	–	–	MIFAB	2"	2"	1-1/2"	3/4"	–	0.125 G.P.F.
P-4	SHOWER	FIAT	36MFT	SYMMONS ORIGINS S-9601-P-VP-X	–	–	–	2"	2"	1-1/2"	1/2"	1/2"	2.5 GPM PRESSURE BALANCING MIXING VALVE. WITH TERRAZZO SHOWER BASE 36" X 36".
P-4A	SHOWER (ACCESSIBLE)	SYMMONS	–	ORIGINS S-9605-PLR-VP-X	–	–	–	2"	2"	1-1/2"	1/2"	1/2"	2.5 GPM PRESSURE BALANCING MIXING VALVE. ROLL-IN SHOWER WITH FLOOR DRAIN, SHOWER/HAND HELD SHOWER AND 36" SLIDE BAR.
F.D.	FLOOR DRAIN	MIFAB	F1000-7-5	–	–	P-TRAP	–	–	–	–	–	–	PROVIDE WITH SEDIMENT BUCKET AND MI-GUARD TRAP SEAL.

NOTES:
1. PROVIDE DEEP SEAL TRAPS ON ALL TOILET ROOM FLOOR DRAINS.
2. PROVIDE McGUIRE PRO-WRAP INSULATING KIT ON TRAPS AND HOT AND COLD WATER SUPPLIES TO ALL HANDICAPPED LAVATORIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF HANDICAPPED FIXTURES.
3. PRIOR TO SUBMITTING SHOP DRAWINGS, THE CONTRACTOR SHALL COORDINATE FIXTURE TYPES AND COLORS WITH THE ARCHITECT.
4. ALL HANDICAPPED FIXTURES SHALL BE INSTALLED AS PER ICC/ANSI A117.1-2017 REQUIREMENTS.
5. ALL LAVATORIES AND HAND SINKS SHALL BE PROVIDED WITH THERMOSTATIC MIXING VALVES (ASSE 1070). MAXIMUM TEMPERATURE SHALL BE SET TO 110°F.



05 P0.1 **TYPICAL FLOOR DRAIN DETAIL**
N.T.S.



06 P0.1 **TYPICAL HANGER DETAIL**
N.T.S.

PLUMBING EQUIPMENT SCHEDULE											
GENERAL					DESIGN DATA		ELECTRICAL				REMARKS
ITEM	SERVICE	MFR.	NO.	LOCATION	CAPACITY	PUMP HEAD	H.P./K.W.	R.P.M.	VOLTS	PHASE	
WH-1	WATER HEATER	BRADFORD WHITE	EF-100T-150E-3N	SEE DRAWINGS	100 GAL.	257 G.P.H. @ 68 DEG. RISE	---	---	120	1	PROVIDE WITH CONCRETE PAD AND NEUTRALIZATION KIT.
CP-1	CIRC. PUMP	BELL&GOSSETT	NBF-8S/LW	SEE DRAWINGS	1 G.P.M.	1 G.P.M. @ 7 T.D.H.	.39 WATTS	2800	115	1	PROVIDE WITH TIME CLOCK. TC-1

Department of Community Affairs
Construction Project Review
Project No: 9050-26
partial release
plumbing
Thomas Williams
Released: 4/23/2026
N.J.S.A. 52:27D-119 ET SEQ., AS AMENDED

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Michael J. Millemann, AIA
NJ. LICENSE # AI 14550
N.Y. LICENSE # 028885
CERTIFICATE OF AUTHORIZATION No. AC33200

LATRINE ALTERATIONS FOR:
MT HOLLY ARMORY
1670 NJ-38
MT HOLLY, NEW JERSEY 08060
DMA PROJECT NO. MH008

REV.:	DATE:	DESCRIPTION:

KSI CONSULTING ENGINEERS, LLC
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732.938.2521
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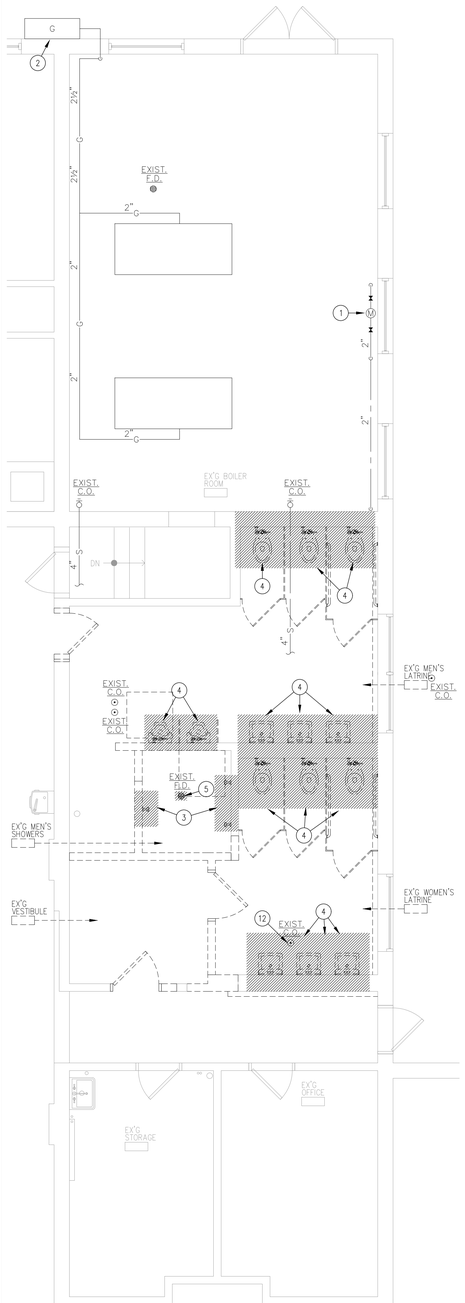
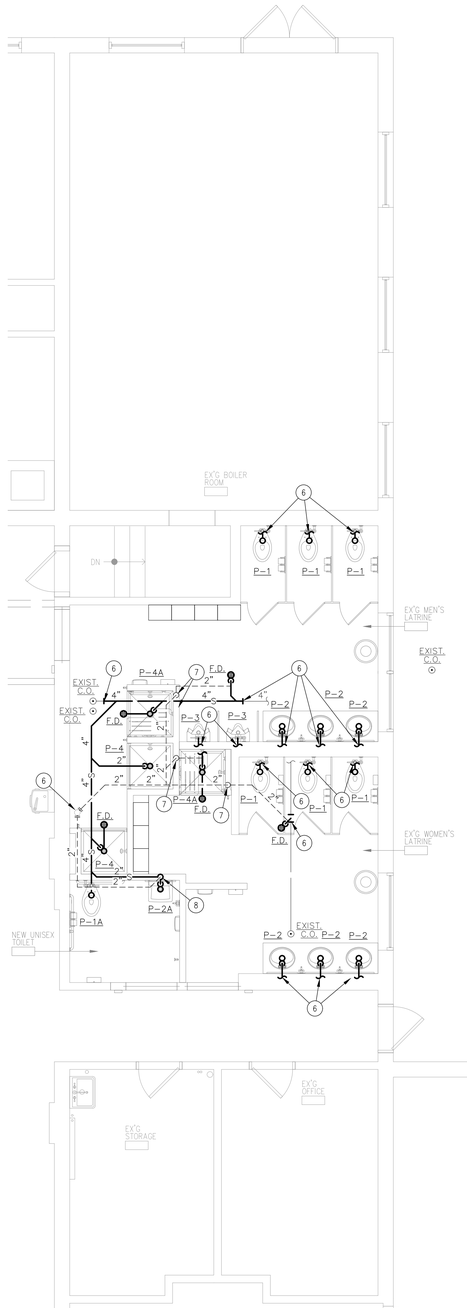
24GA28124300
PAUL RIPISH, P.E.
Professional Engineer
State of New Jersey
STATE OF NEW JERSEY PAUL R. RIPISH 24GE04515800 LICENSED PROFESSIONAL ENGINEER
DATE: 3/31/26
KSI PROJECT # 2502034 27
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NUMBER: 45158000

PLUMBING GENERAL INFORMATION

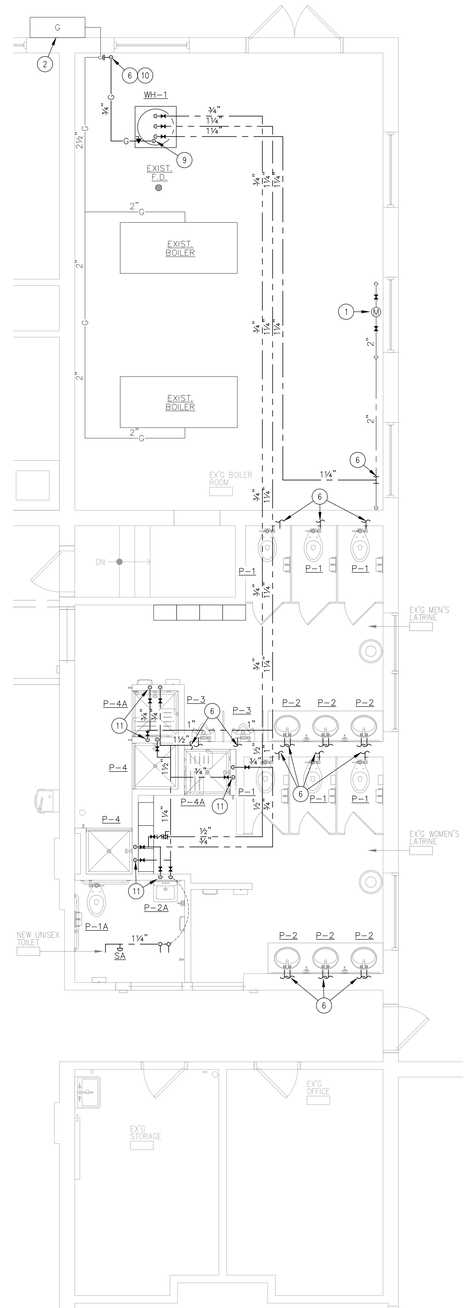
PROJECT NO.: 2557
DRAWN BY: JAH
DATE ISSUED: 3/30/26
SHEET NO.:
P0.1



01 P1.1 PLUMBING DEMOLITION PART PLAN
1/4"=1'-0"



02 P1.1 PLUMBING NEW WORK PART PLAN - WASTE AND VENT
1/4"=1'-0"



03 P1.1 PLUMBING NEW WORK PART PLAN - WATER AND GAS
1/4"=1'-0"

KEY NOTES

1. EXISTING 2" WATER SERVICE AND METER TO REMAIN.
2. EXISTING GAS METER TO REMAIN. GAS PRESSURE SET TO 1 PSI. CONTRACTOR SHALL COORDINATE NEW GAS LOADS WITH UTILITY COMPANY.
3. REMOVE EXISTING PLUMBING FIXTURE(S) AND ALL ASSOCIATED PIPING BACK TO ACTIVE MAINS.
4. REMOVE AND REPLACE EXISTING PLUMBING FIXTURE(S) AND MODIFY ALL ASSOCIATED PIPING TO ACCOMMODATE NEW. REFER TO NEW WORK DRAWINGS FOR NEW PIPING LAYOUT.
5. EXISTING FLOOR DRAIN AND ALL EXISTING PIPING SHALL BE REMOVED BACK TO ACTIVE MAIN.
6. CONNECT TO EXISTING. CONTRACTOR SHALL VERIFY EXISTING IN FIELD.
7. V. RISE.
8. W. DN. & V. RISE.
9. H.W., C.W., H.W.R. AND GAS PIPING DROP AND CONNECT TO WATER HEATER MOUNTED ON CONCRETE PAD.
10. GAS PIPING RISE.
11. H.&C.W. DROP AND CONNECT TO PLUMBING FIXTURE(S).
12. REMOVE AND RELOCATE EXISTING CLEANOUT. REFER TO NEW WORK PLANS FOR NEW CLEANOUT LOCATION.

GENERAL NOTES

1. PROVIDE THERMOSTATIC MIXING VALVES AT LAVATORIES/HAND SINKS IN ACCORDANCE WITH ASSE 1070.
2. PROVIDE SHOCK ARRESTORS ON BRANCH PIPING SUPPLYING QUICK CLOSING VALVES.
3. PATCH AND REPAIR/REPLACE ALL MASONRY WALLS AT PIPING IN PREPARATION FOR FINISH WALL TILE.

Table B.7.3.C - TYPE L COPPER TUBE

TUBE SIZE	4 FPS VELOCITY WSFU (tanks)	4 FPS VELOCITY WSFU (valves)	4 FPS VELOCITY FLOW (gpm)	4 FPS VELOCITY PD psi/100ft	6 FPS VELOCITY WSFU (tanks)	6 FPS VELOCITY WSFU (valves)	6 FPS VELOCITY FLOW (gpm)	6 FPS VELOCITY PD psi/100ft	8 FPS VELOCITY WSFU (tanks)	8 FPS VELOCITY WSFU (valves)	8 FPS VELOCITY FLOW (gpm)	8 FPS VELOCITY PD psi/100ft	TUBE SIZE
3/8"			1.8	7.8	2		2.3	11.7	4		3.6	28.0	3/8"
1/2"	3		2.9	5.9	4		3.6	8.9	7		5.8	21.3	1/2"
3/4"	7		6.0	3.9	9		7.5	5.8	16		12.1	13.9	3/4"
1"	14		10.3	2.8	18		12.9	4.3	31		20.6	10.2	1"
1-1/4"	23		15.7	2.2	29		19.5	3.3	56	15	31.3	8.0	1-1/4"
1-1/2"	34	5	22.2	1.8	47	11	27.7	2.7	101	36	44.4	6.5	1-1/2"
2"	79	26	38.6	1.3	117	43	48.2	2.0	261	136	77.2	4.7	2"
2-1/2"	173	73	59.5	1.0	247	120	74.4	1.5	470	360	119.0	3.7	2-1/2"
3"	300	170	84.9	0.8	406	281	106.2	1.3	749	713	169.9	3.0	3"
4"	635	567	149.3	0.6	854	833	186.7	0.9	1739	1739	298.7	2.2	4"
5"	1189	1189	232.7	0.5	1674	1674	290.9	0.7	3338	3338	465.5	1.7	5"
6"	2087	2087	334.6	0.4	2847	2847	418.2	0.6	6382	6382	669.1	1.4	6"

H.W. SIZING — C.W. SIZING

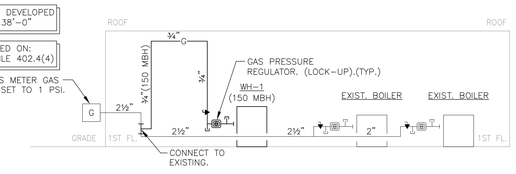
DRAINAGE FIXTURE UNITS (D.F.U.)
N.S.P.C. TABLE 11.4.1
LAV. : 1 D.F.U.
W.C. : 4 D.F.U.
SHR. : 2 D.F.U.
UR. : 4 D.F.U.

WATER SUPPLY FIXTURE UNITS (W.S.F.U.)
N.S.P.C. TABLE 10.14.2A
LAV. : 1 W.S.F.U.
W.C. : 5 W.S.F.U.
SHR. : 5 W.S.F.U.
UR. : 4 W.S.F.U.

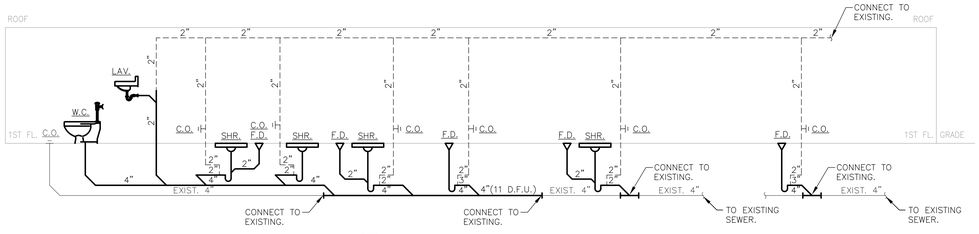
GAS PIPING DEVELOPED LENGTH = 38'-0"

SIZING BASED ON: I.F.G.C. TABLE 402.4(4)

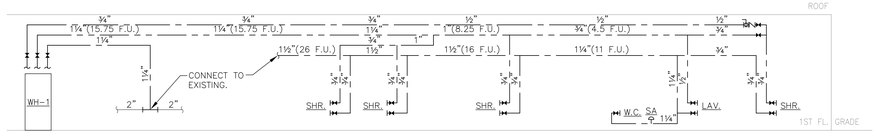
TENANT GAS METER GAS PRESSURE SET TO 1 PSI.



04 P1.1 GAS RISER DIAGRAM
N.T.S.



05 P1.1 SANITARY RISER DIAGRAM
N.T.S.



06 P1.1 WATER RISER DIAGRAM
N.T.S.

Department of Community Affairs
Construction Project Review
Project No: 9050-26
partial release
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Thomas Williams
Released: 4/23/2026
N.J.S.A. 52:27D-119 ET SEQ., AS AMENDED

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LATRINE ALTERATIONS FOR:
MT HOLLY ARMORY
1670 NJ-38
MT HOLLY, NEW JERSEY 08060
DMA PROJECT NO. MH008

REV.:	DATE:	DESCRIPTION:

PLUMBING DEMOLITION & NEW WORK PART PLANS

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Professional Engineer
State of New Jersey
STATE OF NEW JERSEY PAUL S. RIPPSH 24GE04515800 LICENSED PROFESSIONAL ENGINEER
DATE: 3/31/26
KSI PROJECT # 250204_27
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NUMBER: 45158001

PROJECT NO.: 2557 DRAWN BY: JAH

DATE ISSUED: 3/30/26

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