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BATTLE CREEK ANGB BATTLE CREEK, MICHIGAN

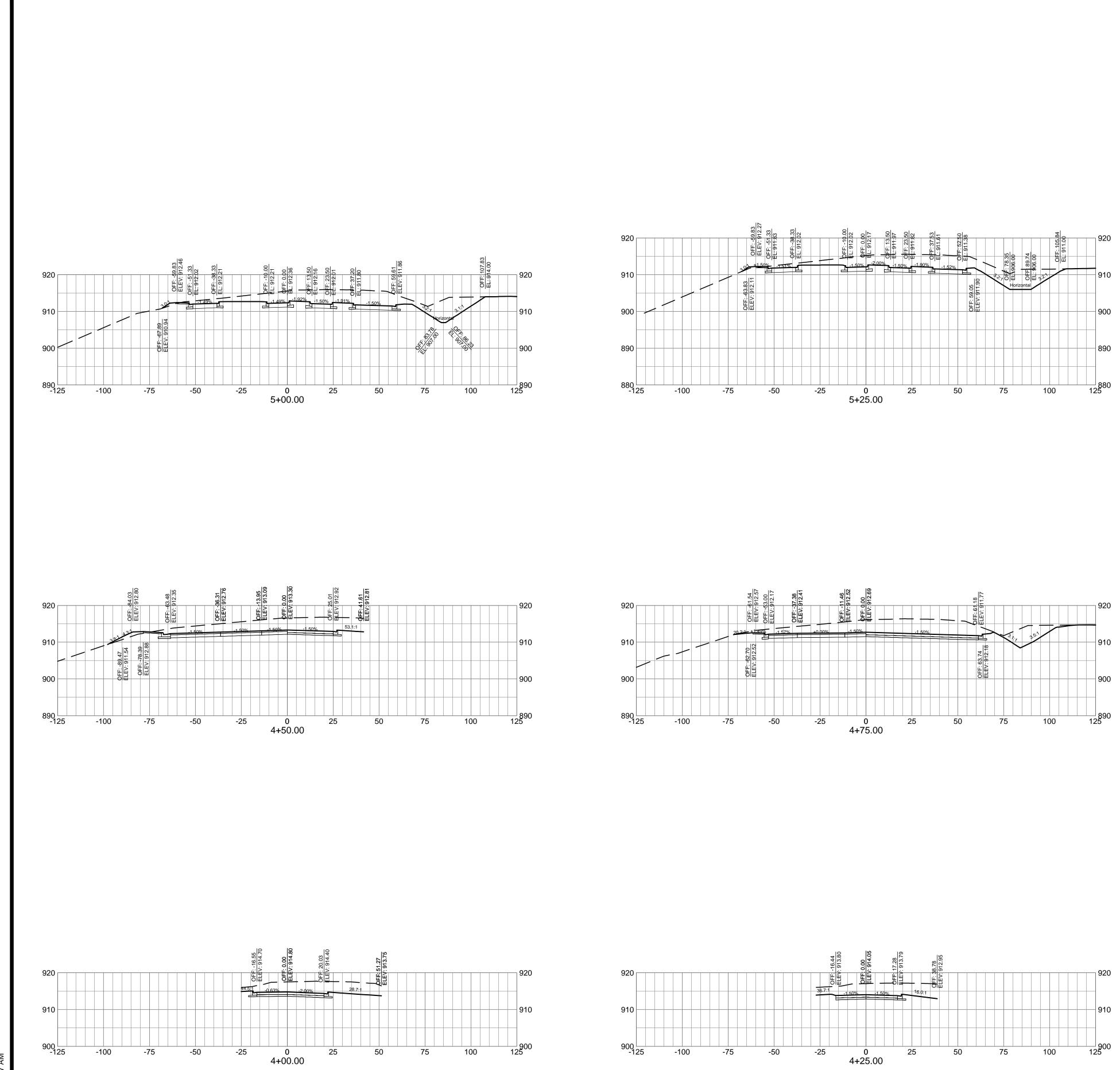
02/17/21 B3 FINAL

3141900-113782.01 FEBRUARY 17, 2021

DESIGNED BY: JAK CHECKED BY: SAH

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MICHIGAN AIR NATIONAL CONSTRUCT MAIN BASE

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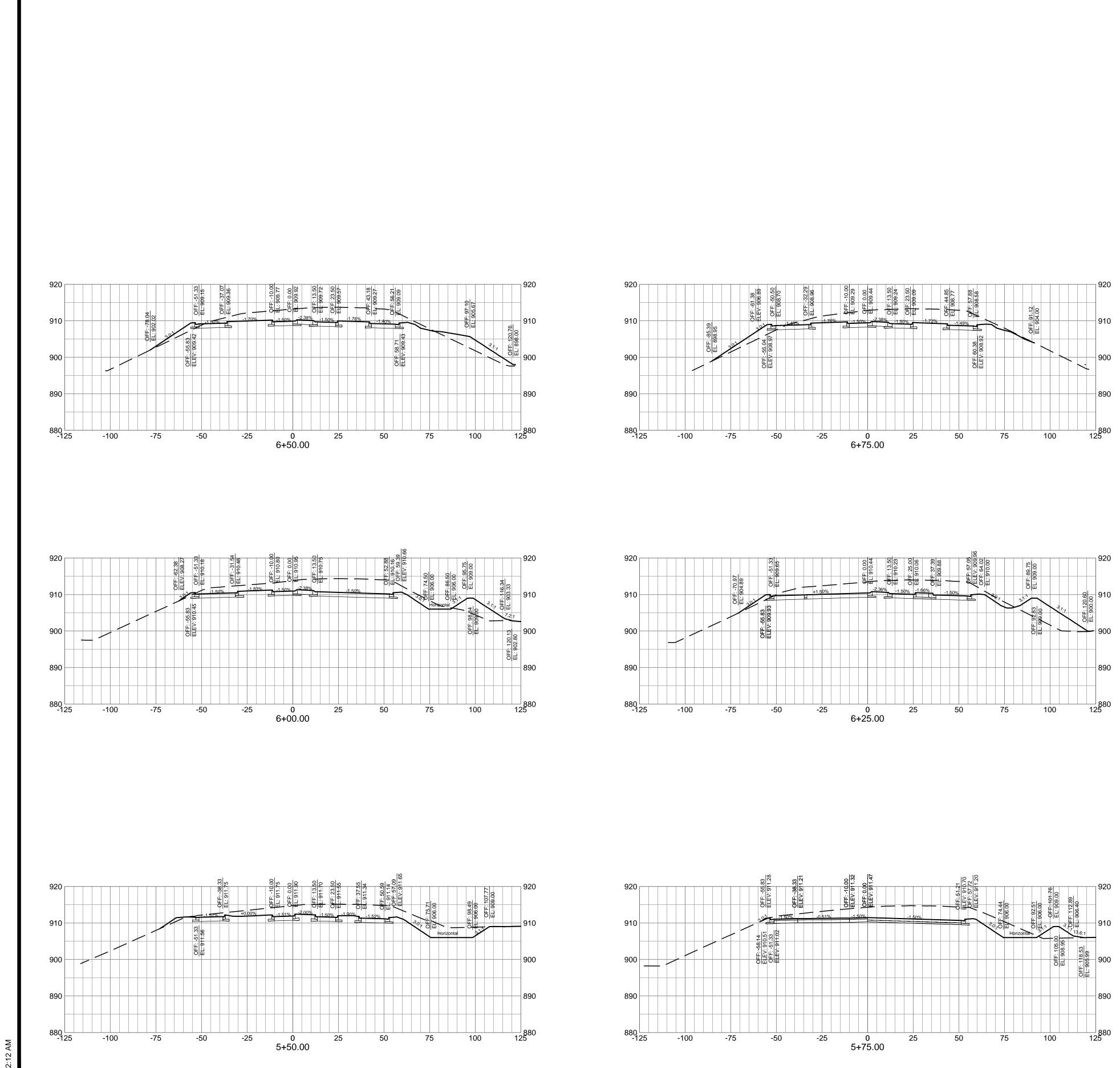
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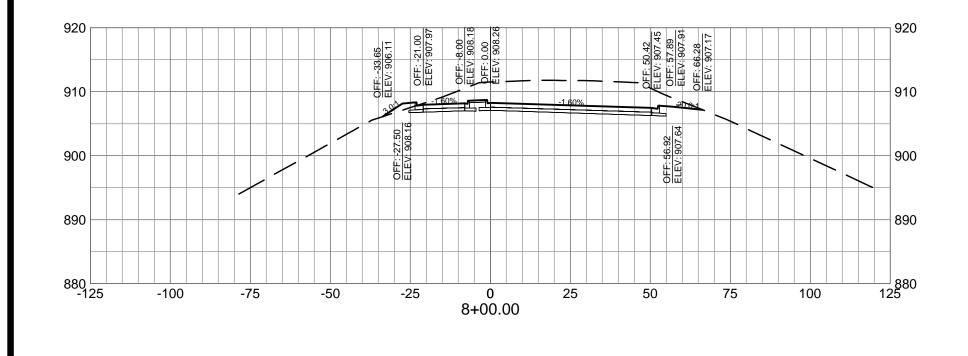
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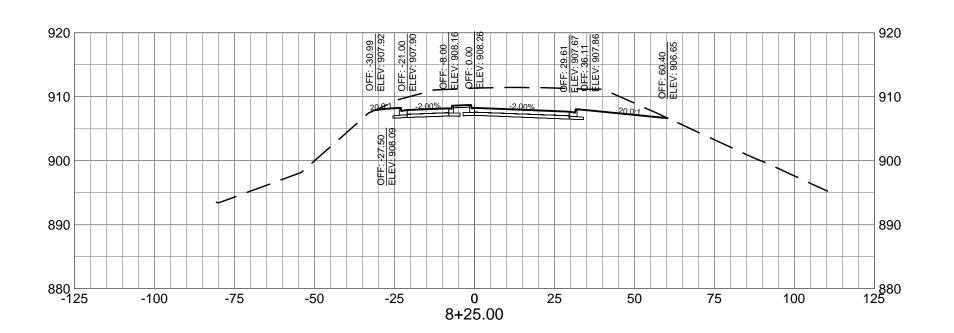
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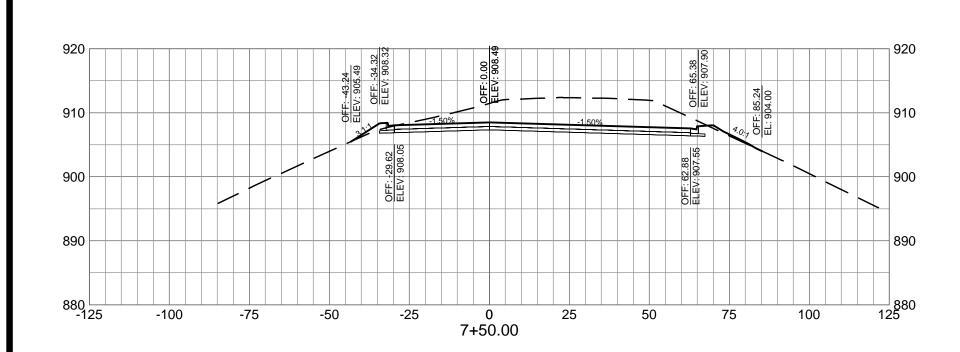
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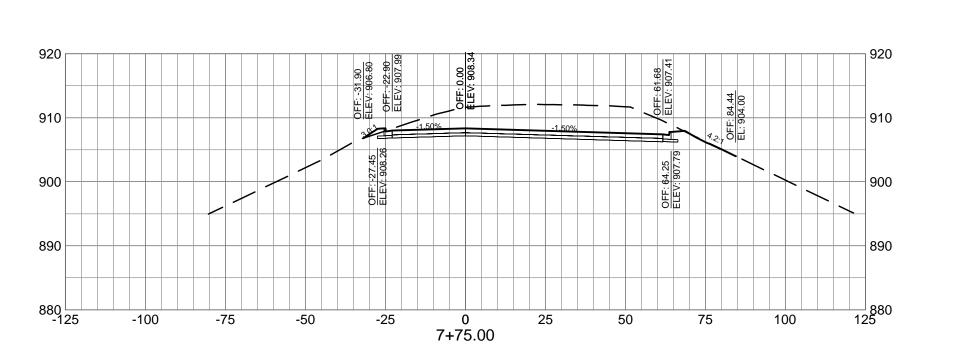
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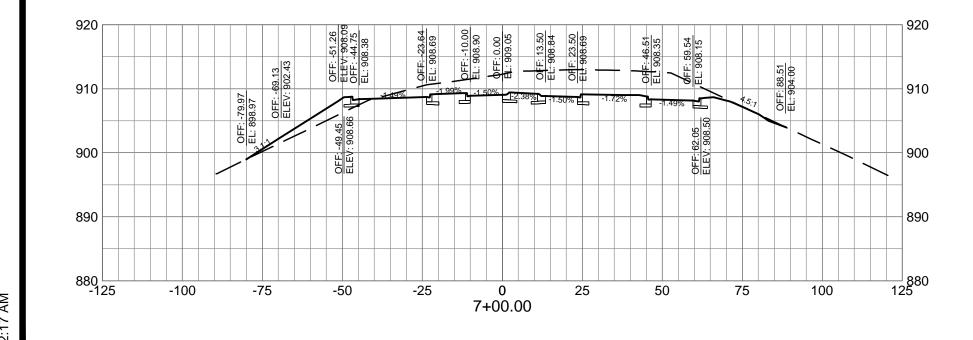
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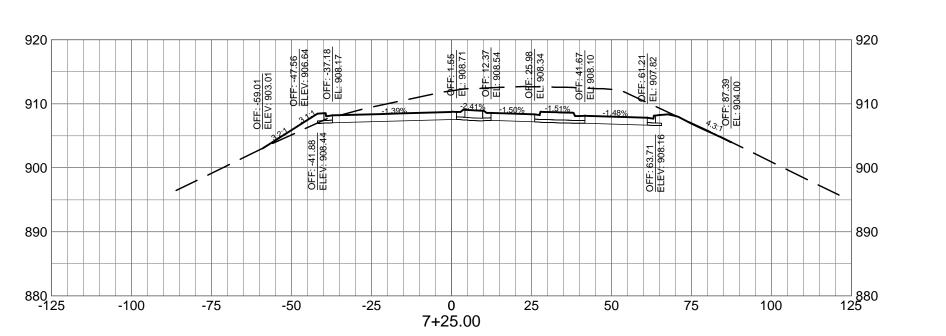




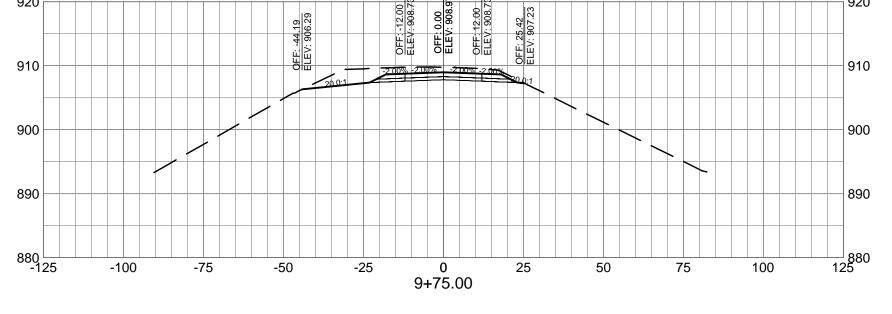


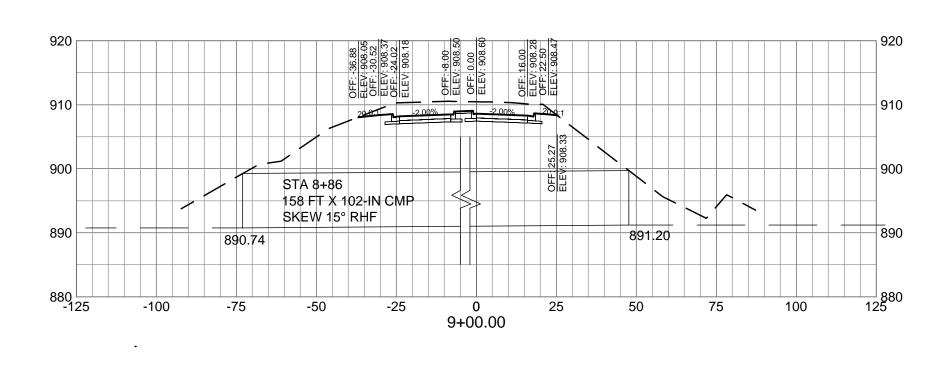






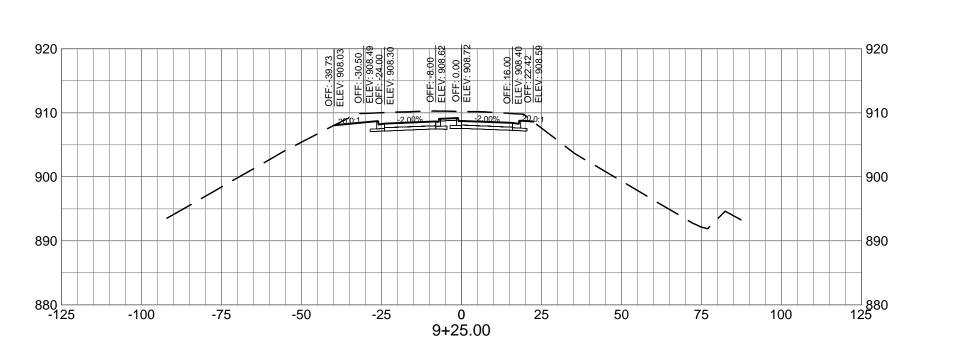
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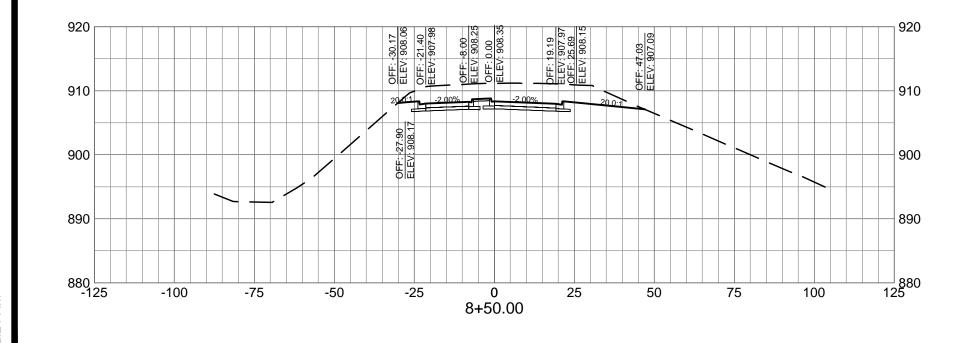


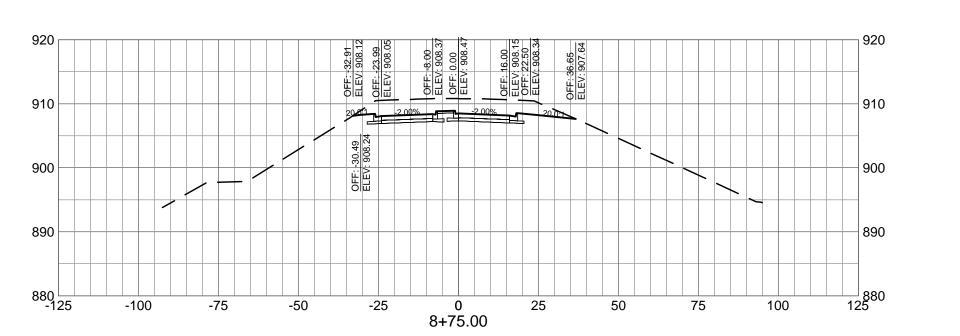


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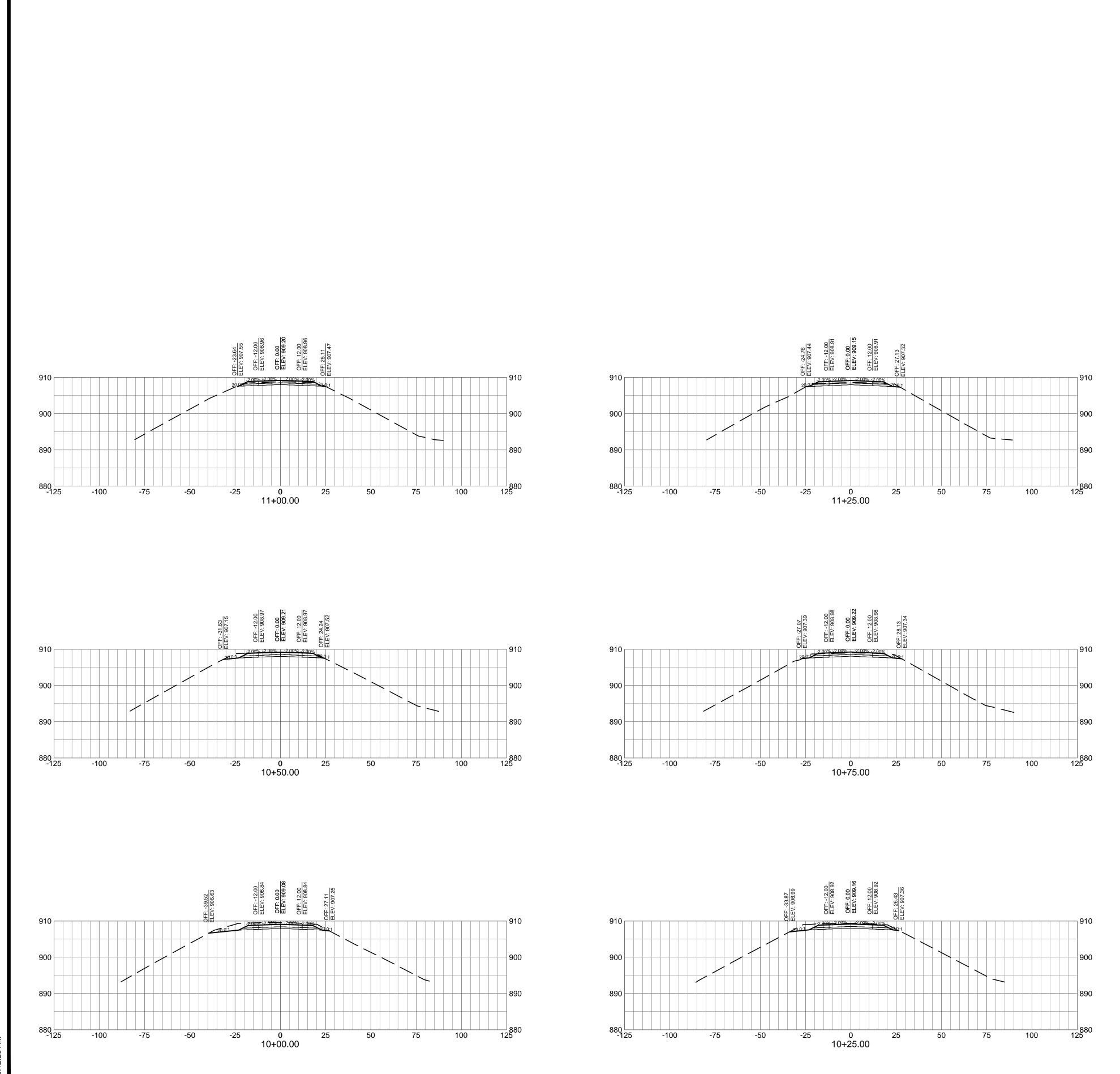
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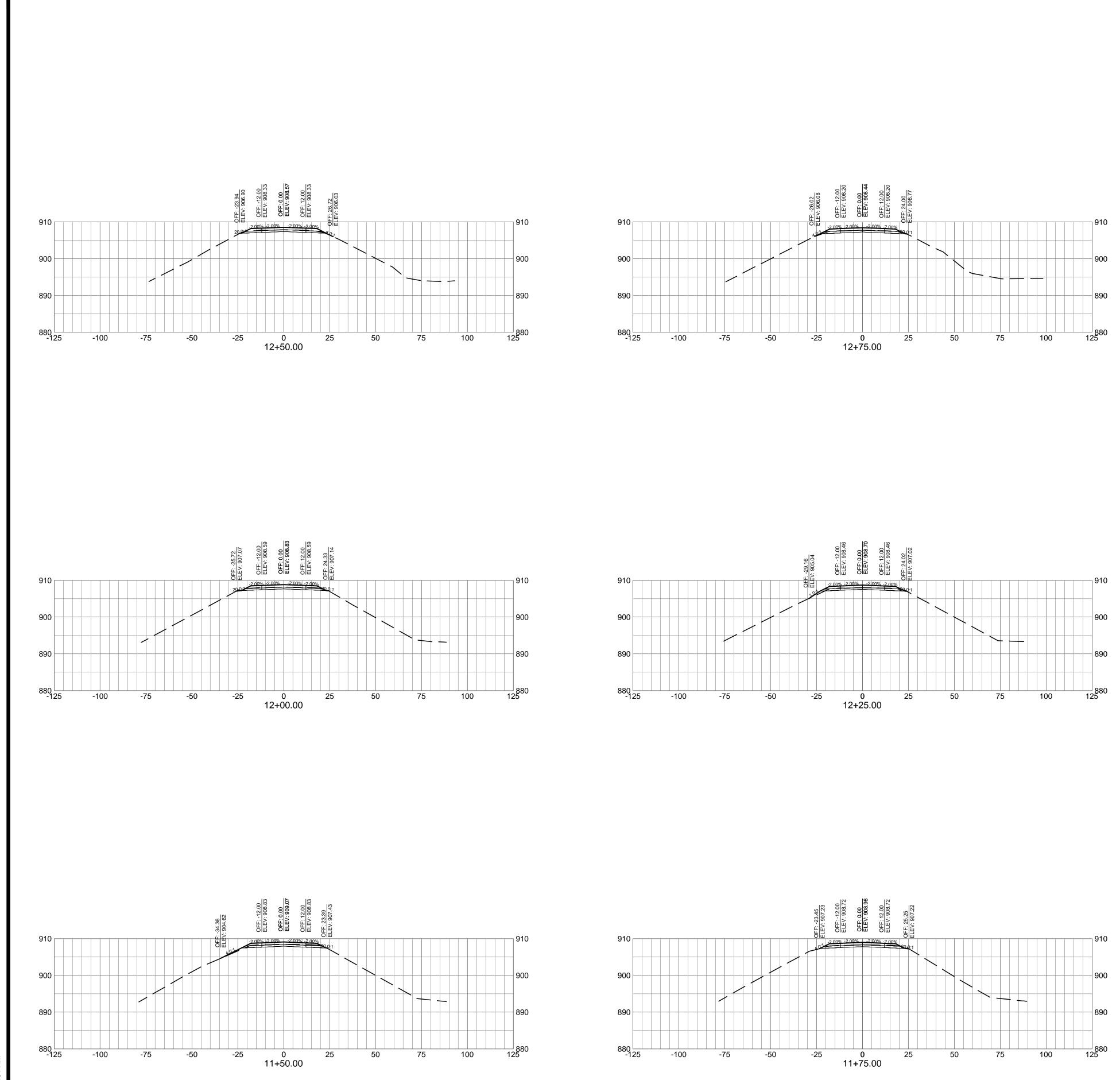
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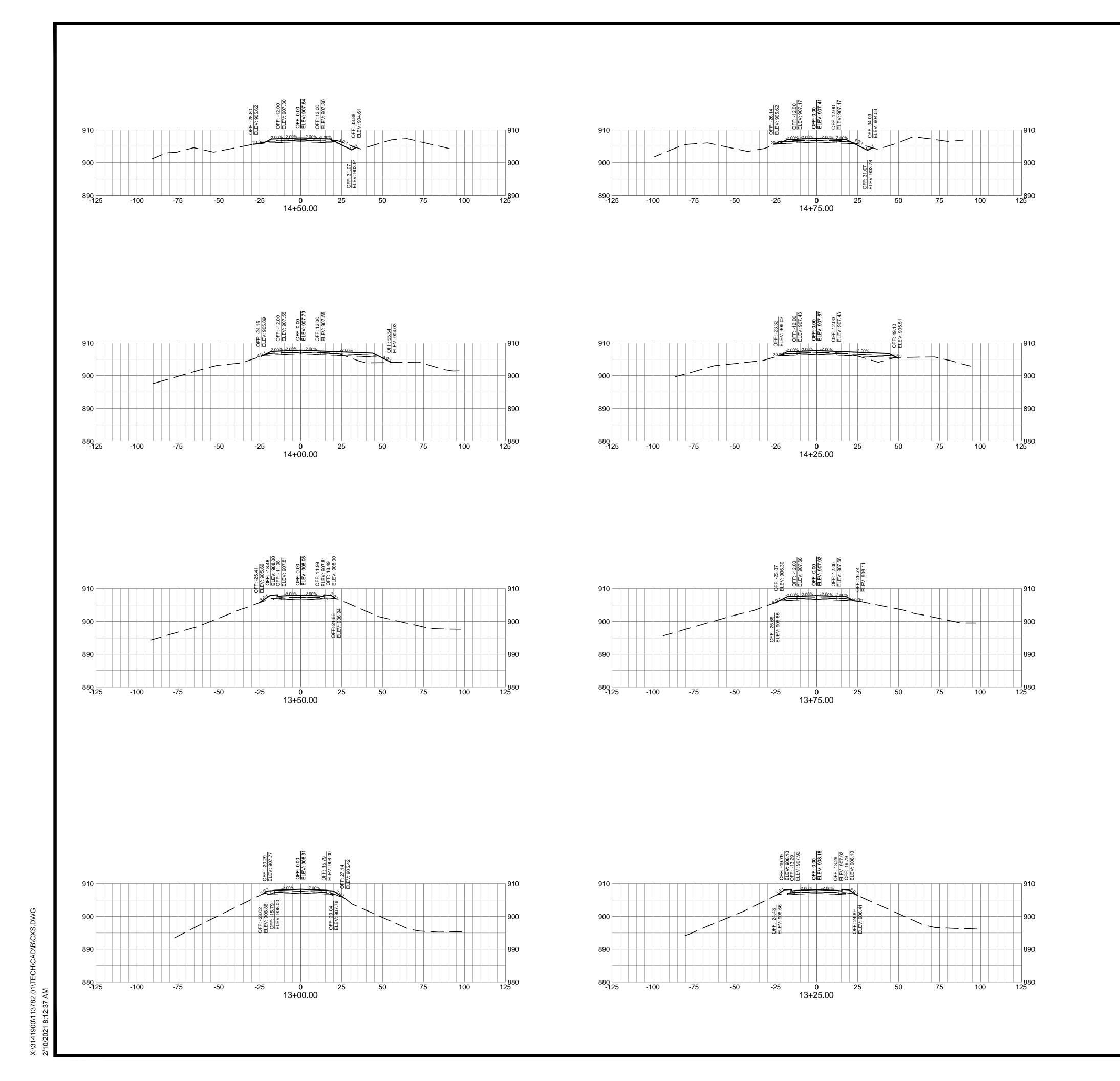
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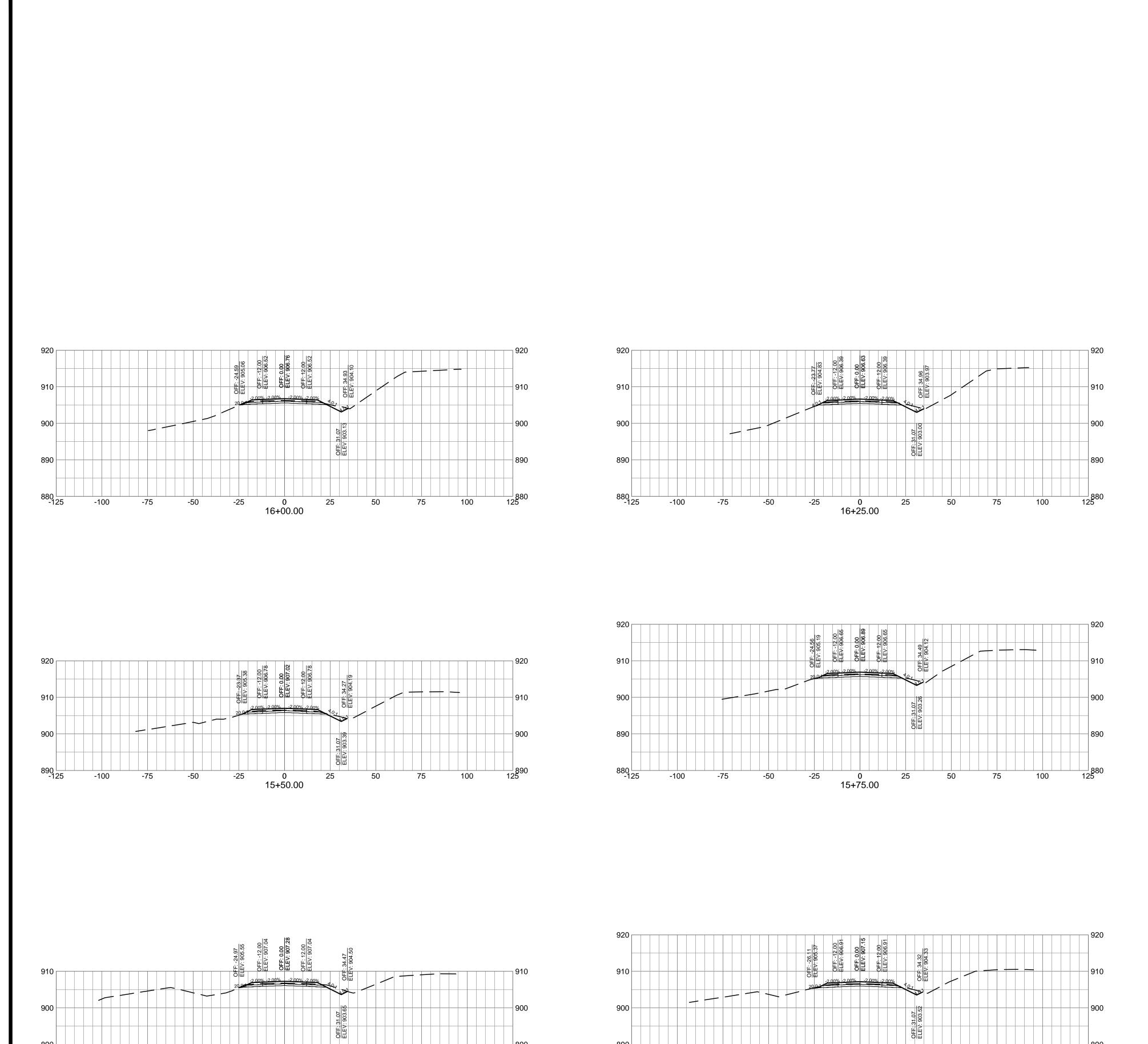
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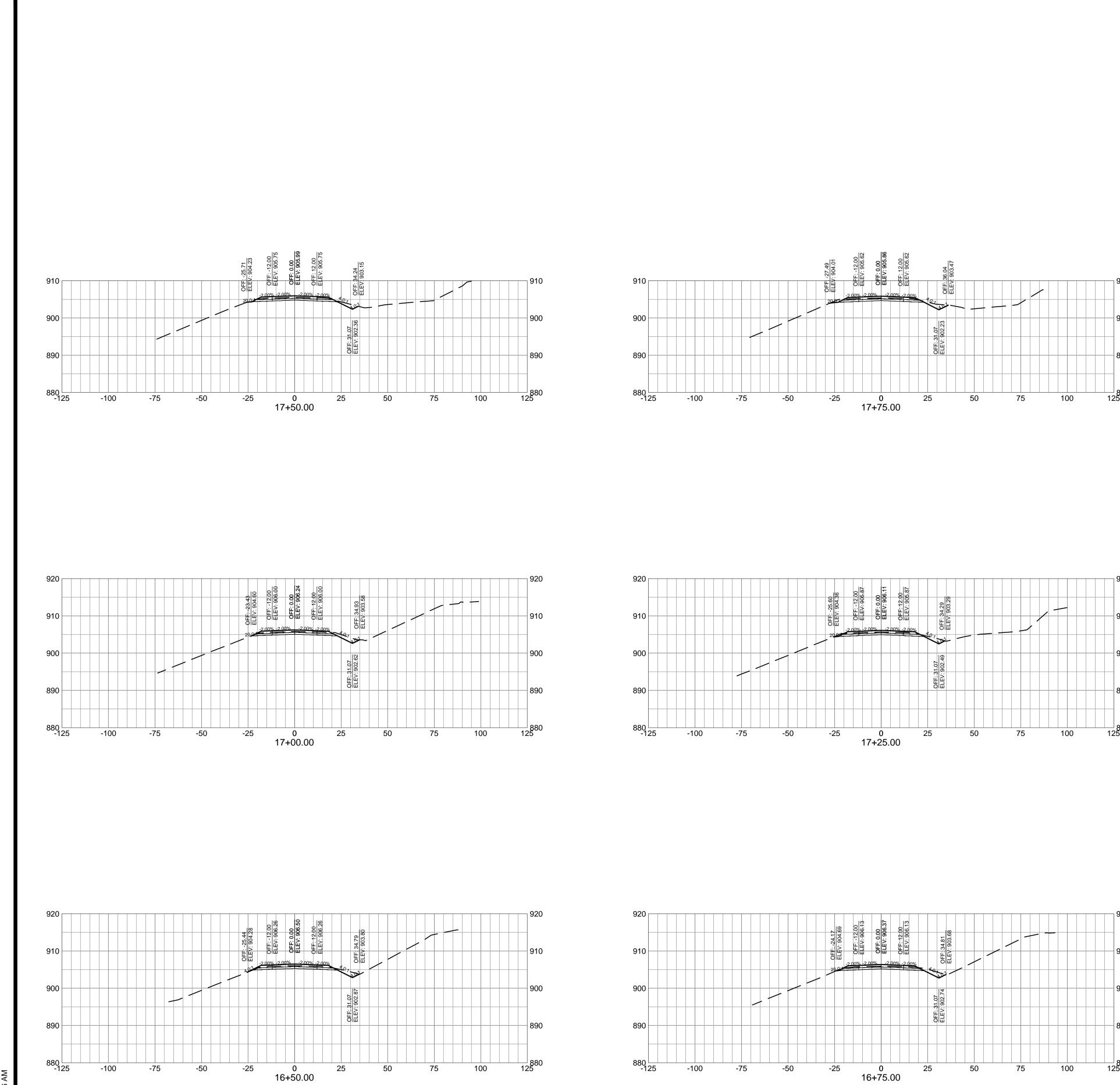
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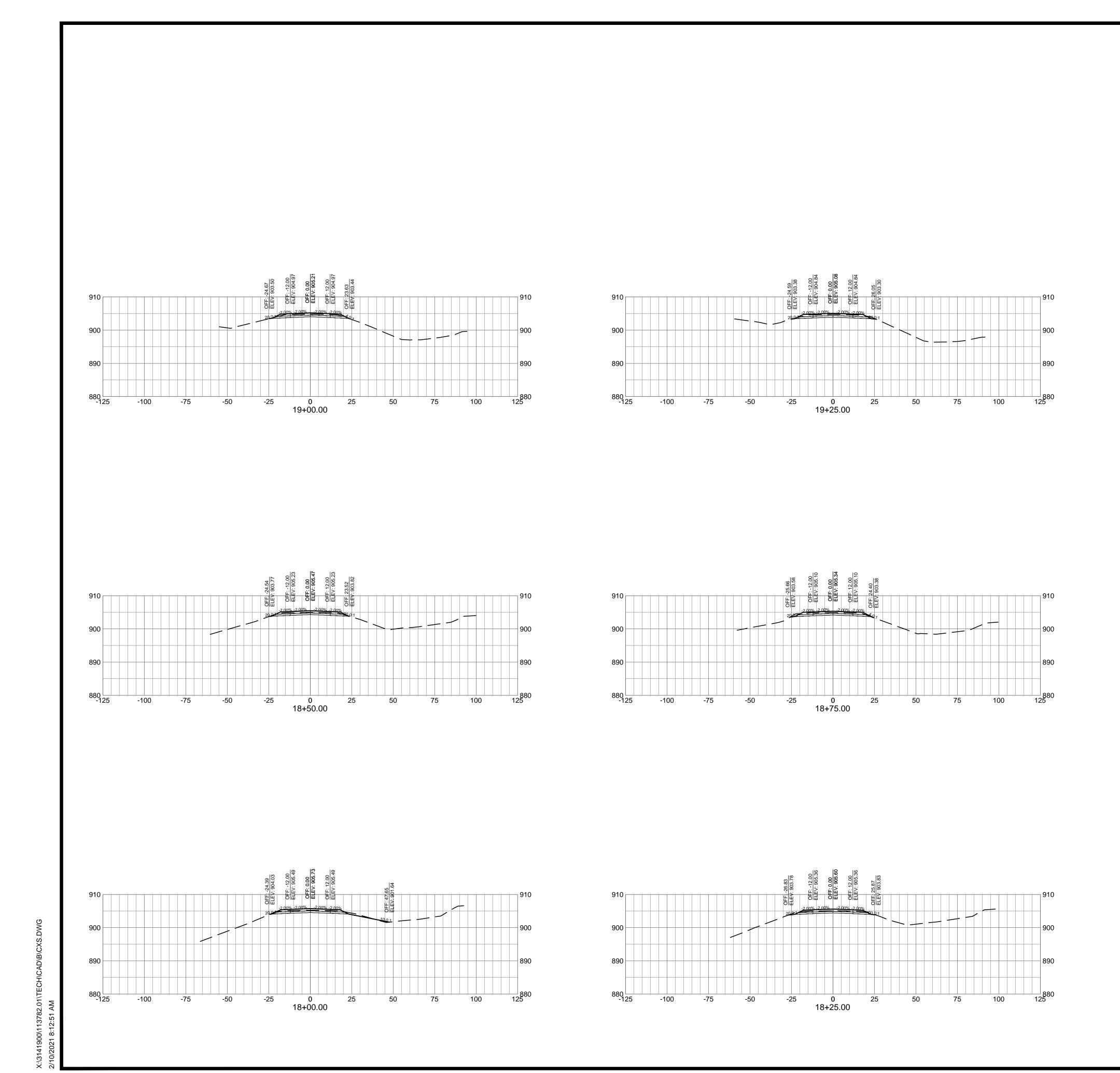
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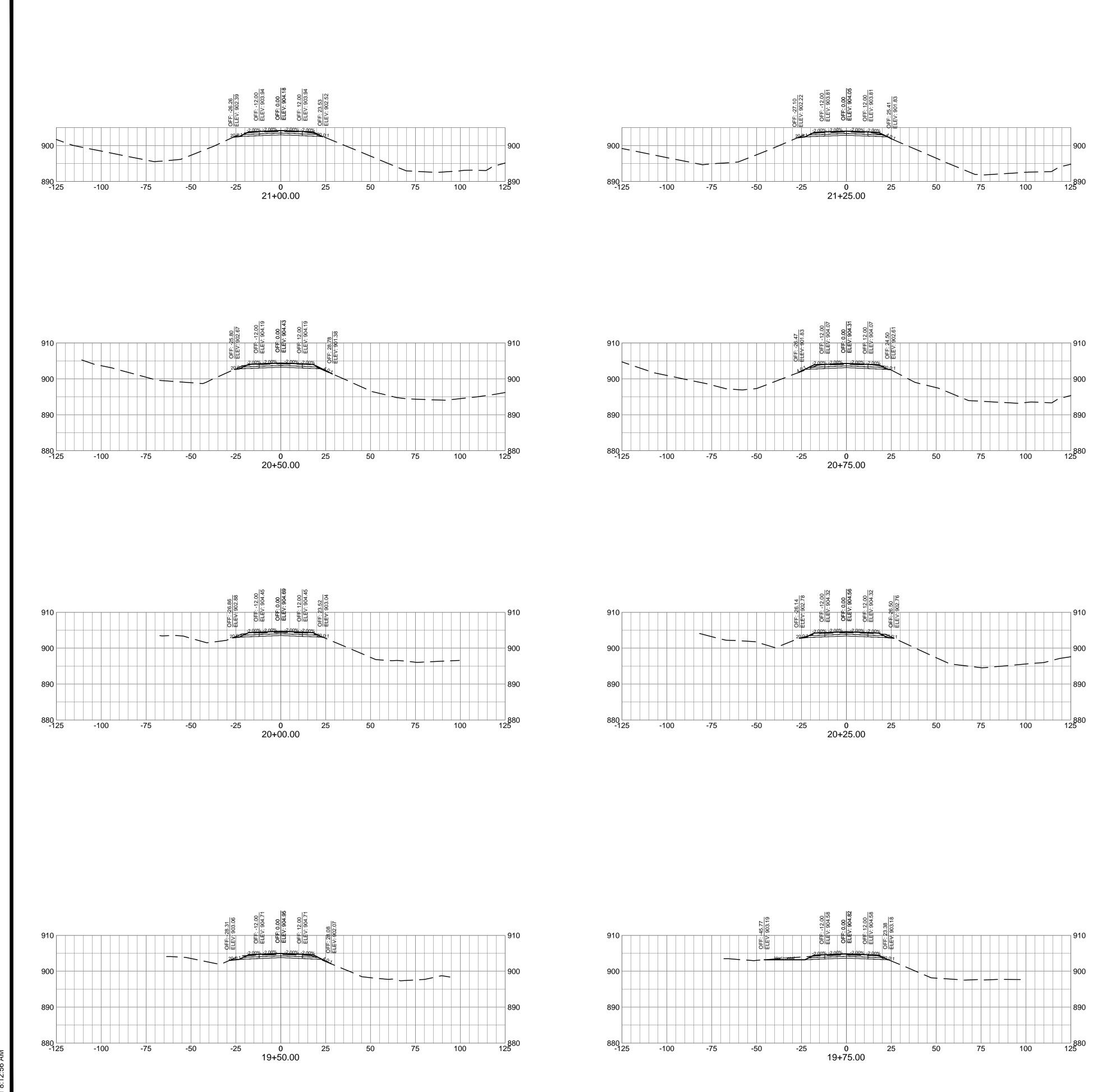
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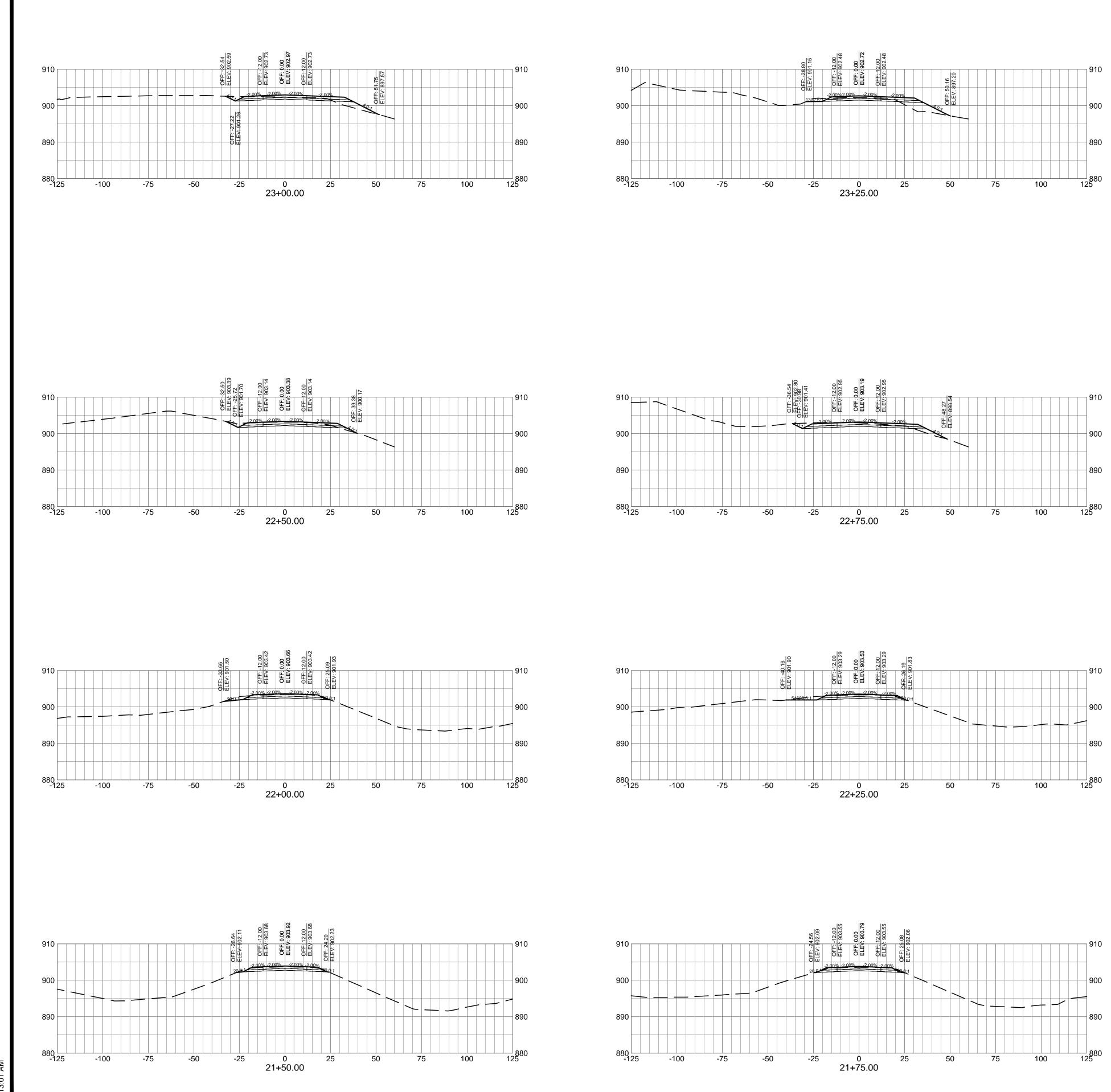
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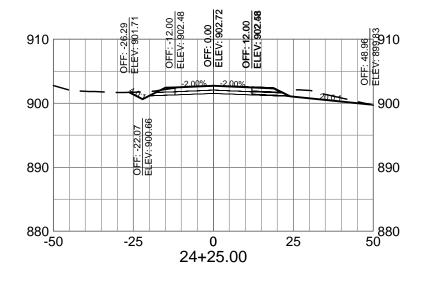
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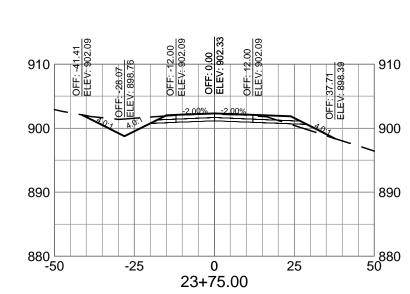
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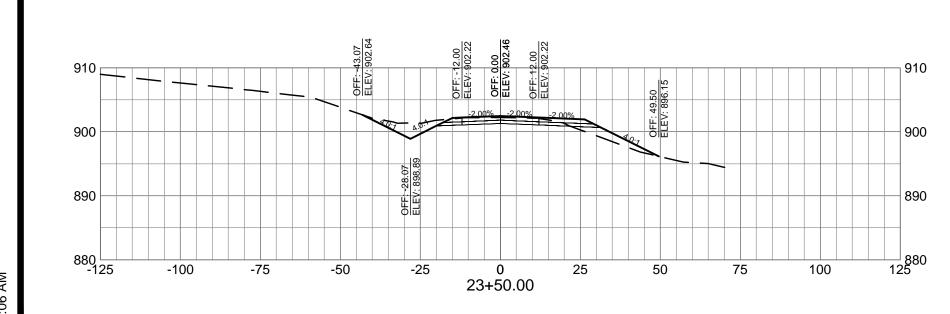
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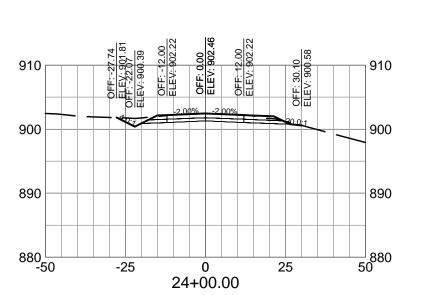
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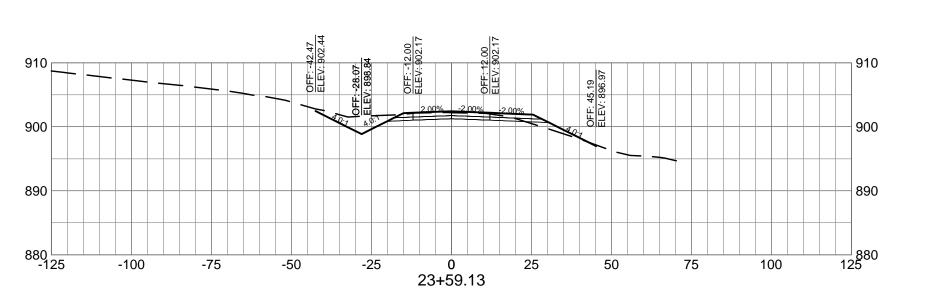
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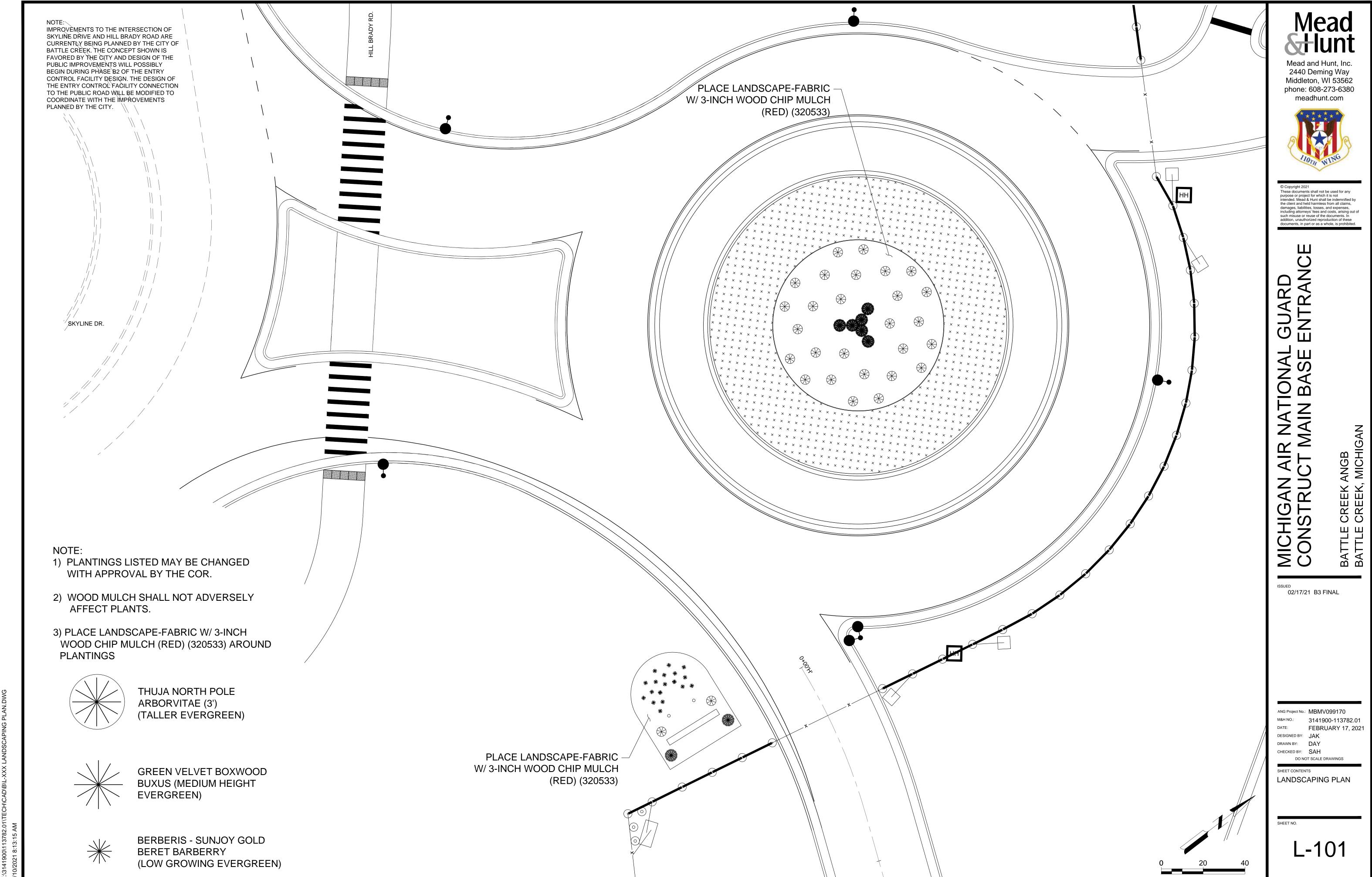












4. ROOF LIVE LOAD (1603.1.2)

ROOF LIVE LOAD: 30 PSF NONREDUCIBLE

5. ROOF SNOW LOAD (1603.1.3)

GROUND SNOW LOAD: $P_G = 30 PSF$ FLAT-ROOF SNOW LOAD: $P_F = 25 PSF$ SNOW EXPOSURE FACTOR SNOW LOAD IMPORTANCE FACTOR: $l_S = 1$ THERMAL FACTOR: $C_T = 1.2$

WIND DESIGN DATA (1603.1.4)

ULTIMATE WIND SPEED (3-SECOND GUST): V_{ULT} = 115 MPH WIND EXPOSURE:

WIND ENCLOSURE CVIF: DESIGN PEMB FOR ENCLOSED WITH ALL SIDES ENCLOSED IN FUTURE, PARTIALLY ENCLOSED WITH ANY ONE WALL OPEN, AND OPEN

EARTHQUAKE DESIGN DATA (1603.1.5)

GATEHOUSE: ENCLOSED

IMPORTANCE FACTOR: $I_E = 1$

MAPPED, MCE, 5% DAMPED, SPECTRAL ACCELERATIONS AT SHORT PERIODS $S_S = .12 G$ AT A PERIOD OF 1 SECOND: $S_1 = .05 G$ SITE CLASS:

DESIGN EARTHQUAKE SPECTRAL ACCELERATIONS AT SHORT PERIODS: AT A PERIOD OF 1 SECOND: $S_{D1} = .08 G$

SEISMIC DESIGN CATEGORY: SDC = B

GEOTECHNICAL DESIGN DATA (1603.1.6)

NET ALLOWABLE SOIL BEARING PRESSURE 4000 PSF

REFERENCE GEOTECHNICAL REPORT SOMAT 2019036A

9. <u>FLOOD DESIGN DATA</u> (1603.1.7)

10. <u>SPECIAL LOADS</u> (1603.1.8)

BUILDING IS NOT LOCATED IN FLOOD HAZARD AREA; THEREFORE FLOOD DESIGN DATA IS NOT REQUIRED

11. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (1603.1.9)

BUILDING IS DESIGNATED SEISMIC DESIGN CATEGORY B; THEREFORE SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE ARE NOT REQUIRED.

12. STRUCTURAL OBSERVATIONS FOR SEISMIC AND/OR WIND RESISTANCE N/A

GENERAL NOTES

G-1. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION - RESOLVE ANY DISCREPANCY WITH ARCHITECT/ENGINEER.

DO NOT SCALE DRAWINGS!!!!

G-2. FOR CLARITY, ALL EXTERIOR SLABS AND SIDEWALKS MAY NOT BE SHOWN. FOR EXACT DIMENSIONS, LOCATIONS, JOINTS AND SCORE LINES, SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS.

G-3. VERIFY ALL SIZES, WEIGHTS AND LOCATIONS OF MECHANICAL AND ELECTRICAL EQUIPMENT, ROOF PENETRATIONS, DUCTS, ETC. WITH MECHANICAL AND ELECTRICAL CONTRACTORS AND FIELD CONDITIONS.

G-4. DETAILS MARKED "TYPICAL" MAY OR MAY NOT BE CUT ON PLANS, BUT SHALL APPLY UNLESS NOTED OTHERWISE.

G-5. STRUCTURAL SYSTEM IS DESIGNED TO WORK AS A COMPLETED SYSTEM, ANY SHORING OR BRACING NECESSARY DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

G-6. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR SLEEVES, INSERTS, ETC. NOT SHOWN ON STRUCTURAL PLANS.

G-7. NO PIPES OR SLEEVES FOR MECHANICAL TRADES SHALL PASS THROUGH STEEL MEMBERS WITHOUT APPROVAL OF THE STRUCTURAL

G-8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SITE SAFETY AND ALL ACCIDENTS WHICH RESULT IN DEATH, PERSONAL INJURY, OR DAMAGE TO PROPERTY ARISING OUT OF OR IN CONNECTION WITH THE PERFORMANCE OF THE WORK.

G-9. NOT USED

G-10. SECTIONS, DETAILS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.

FOUNDATION NOTES

F-1. FOOTING SUBGRADES SHALL BE CLEAN AND FREE OF DEBRIS, STANDING

F-2. ALL COLUMN FOOTINGS ARE TO BE CENTERED UNDER COLUMN CENTERLINES, UNLESS INDICATED OTHERWISE.

F-3. THE FOUNDATION CONTRACTOR SHALL FULLY REVIEW UNDER-GROUND PLUMBING DRAWINGS AND SHALL COORDINATE WITH THE UNDER-GROUND PLUMBING CONTRACTOR TO DEPRESS FOOTINGS AND PROVIDE PIPE SLEEVES THROUGH FOUNDATION WALLS AS NECESSARY TO ACCOMMODATE PLUMBING LINES OR TRAPS WHICH PENETRATE CONCRETE FOOTINGS OR

F-4. PROVIDE PVC SLEEVES THROUGH FOUNDATION WALLS/FOOTINGS FOR PIPE, CONDUIT, AND CABLE PENETRATIONS, INCLUDING ELECTRICAL GROUNDING SYSTEM CABLES. SEE APPROPRIATE DRAWINGS FOR LOCATIONS/SIZES. PLACE SLEEVES IN LOCATIONS TO AVOID DISPLACING REINFORCING STEEL.

F-5. REFER TO ELECTRICAL DRAWING SITE LIGHTING FOR POLE BASES. SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.

F-6. COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS FOR MISCELLANEOUS FOUNDATIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

F-7. NOT USED

F-8. NOT USED

F-9. COORDINATE GROUNDING REQUIREMENTS FOR FOUNDATION/FOOTING REINFORCING STEEL WITH ELECTRICAL DRAWINGS. COORDINATE INSTALLATION OF GROUNDING WIRES/EQUIPMENT WITH ELECTRICAL CONTRACTOR PRIOR TO CASTING CONCRETE. REFER TO NOTE CR-1 FOR ADDITIONAL INFORMATION.

F-10. SEE TYPICAL SLAB-ON-GRADE DETAILS FOR SLAB AND SUB-BASE REQUIREMENTS. THESE WILL BE TYPICAL THROUGHOUT UNLESS NOTED

MASONRY NOTES

<u> MATERIAL PROPERTIES (U.N.O.)</u> COMPRESSIVE STRENGTH

- F'm = 1500 PSIMASONRY REINFORCEMENT - Fv = 60 KSI (A615 GR 60)MORTAR TYPE S (ASTM C270) GROUT @ 28-DAYS - 2500 PSI (ASTM C476)

M-1. PROVIDE HOT AND COLD WEATHER PROCEDURES AND TEMPORARY MOISTURE PROTECTION IN ACCORDANCE WITH ACI RECOMMENDATIONS AND PROJECT SPECIFICATIONS.

M-2. MASONRY SHALL BE PLACED IN ONE-HALF RUNNING BOND U.N.O.

M-3. HOLLOW MASONRY UNITS SHALL BE LAID WITH FULL HEAD JOINTS AND FULL BED JOINTS OF THE FACE SHELLS AND UNDER WEBS WHERE THE ADJACENT CELLS ARE TO BE FILLED WITH GROUT AND AT THE BOTTOM COURSE.

M-4. WHERE MASONRY IS APPLIED ADJACENT TO STEEL MEMBERS (BEAMS AND COLUMNS) PROVIDE ANCHORING DEVICES PER SPECIFICATIONS.

M-5. REFER TO ARCHITECTURAL PLANS AND DOOR/FRAME SCHEDULES FOR LINTEL ROUGH OPENING LOCATIONS, SIZES, AND ELEVATIONS.

M-6. ALL MASONRY WALLS ARE TO HAVE 9 GAUGE HORIZONTAL JOINT REINFORCEMENT WHICH DOES NOT EXCEED 16 INCHES ON CENTER

M-7. ALL LAPS SHALL BE 48 BAR DIAMETERS UNLESS INDICATED OTHERWISE.

M-8. NOT USED

M-9. PROVIDE CORNER SPLICE BARS FOR ALL BOND BEAMS OCCURRING AT CORNERS OR WALL INTERSECTIONS. SPLICE BAR TO BE THE SAME SIZE AS BARS IN THE BOND BEAM.

DELEGATED DESIGN SUBMITTALS

DOCUMENTS FOR DELEGATED DESIGN SUBMITTAL ITEMS SHALL BE REVIEWED BY THE ENGINEER OF RECORD IN RESPONSIBLE CHARGE WHO SHALL FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THEY HAVE BEEN REVIEWED AND ARE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE

DS-1. COLD FORMED STEEL ROOF FRAMING

DS-2. SCHEDULE OF INSPECTIONS AND TESTING.

DS-3. COLD FORMED STEEL WALL FRAMING

CONCRETE & REINFORCING STEEL NOTES EARTHWORK NOTES

COMPRESSIVE STRENGTH

- F'c = 4 KSICONCRETE REINFORCEMENT - Fy = 60 KSI (A615 GR 60)

CR-1. PROVIDE HOT/COLD WEATHER PROCEDURES AND PROTECTION IN ACCORDANCE WITH ACI RECOMMENDATIONS AND PROJECT SPECIFICATIONS.

CR-2. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM WITH THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE FOLLOWING STANDARDS (LATEST EDITION):

"ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONC." "ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" "ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BLDGS." "ACI 307, RECOMMENDED PRACTICE FOR CONCRETE FORM WORK"

CR-3. REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI 315.

CR-4. ALL REINFORCEMENT BARS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST CRSI MANUAL OF STANDARD PRACTICE AND SHALL BE CLEAN AND FREE OF GREASE AND SCALING RUST.

CR-5. SEE SECTION 033000 OF SPECIFICATIONS FOR INFORMATION REGARDING CONCRETE MIX DESIGN, TESTING, MATERIALS, AND ADMIXTURES.

CR-6. CONCRETE REINFORCEMENT PROTECTION/CLEAR COVER, U.N.O.:

FOOTINGS BOTTOM TOP WALLS: **EXTERIOR EXPOSURE**

ALL BAR LAPS SHALL CONFORM TO ACI 318 CLASS "B" SPLICE CRITERIA. USE TOP BAR LAP LENGTHS FOR TOP BARS IN SLABS AND BEAMS OVER 14" DEEP. MINIMUM BAR LAPS AS FOLLOWS U.N.O.:

#3 = 1'-4" #4 = 1'-4" #5 = 1'-10" #6 = 2'-7" #7 = 4'-2" #9 = 6'-4" #10 = 7'-8" #11 = 9'-0"

FOR EPOXY COATED BARS, PROVIDE 1.5 TIMES THE INDICATED LAP LENGTH. FOR TOP BARS PROVIDE 1.3 TIMES THE INDICATED LAP LENGTH.

CR-8. LAP LENGTH SHALL BE SPECIFICALLY NOTED ON SHOP DRAWINGS WHERE MORE THAN ONE BAR MAKES UP A CONTINUOUS STRING.

CR-9. HORIZONTAL BARS SHALL BE DETAILED TO SHOW THE DISTANCE FROM AT LEAST ONE END OF THE BAR TO THE NEAREST BUILDING GRID LINE OR

SECTION ONLY, SHALL BE LAPPED AS FOLLOWS:

CR-10. CONTINUOUS TOP AND BOTTOM BARS, WHEN SHOWN IN TRANSVERSE

TOP BARS NEAR MID-SPANS; BOTTOM BARS DIRECTLY OVER SUPPORTS

CR-11. PROVIDE ONE (1) HOOKED REINFORCING BAR IN CONCRETE FOOTING TO SERVE AS A "CONCRETE ENCASED ELECTRODE" IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT LOCATION. HOOKED REINFORCING BAR SHALL

CONFORM TO THE FOLLOWING: A. UNCOATED, LOW-ALLOY STEEL, CONFORMING TO ASTM A706.

B. BAR SIZE NUMBER 4 HOOKED AT ONE END ONLY. C. MINIMUM HORIZONTAL LENGTH OF REINFORCING BAR ENCASED IN CONCRETE FOOTING SHALL BE 20'-0" AS DEFINED IN NEC, ARTICLE 250.

D. MINIMUM VERTICAL PROJECTION OF REINFORCING BAR ABOVE CONCRETE SLAB SHALL BE 0'-6".

CR-12. ALL CONCRETE FOUNDATION WALLS SHALL HAVE A MINIMUM OF (2) #5 BARS CONTINUOUS TOP AND BOTTOM, UNLESS INDICATED OTHERWISE.

E. MINIMUM COVER ALL AROUND REINFORCING BAR SHALL BE 2'

CR-13. ALL OPENINGS IN CONCRETE FOUNDATION WALLS ARE TO HAVE (4) #5 DIAGONAL BARS EACH FACE OF THE WALL AND SHALL EXTEND 2 FEET BEYOND OPENING ON EACH SIDE, UNLESS INDICATED OTHERWISE.

WHERE WALL REINFORCING IS NOT INDICATED, DOWEL FOOTING TO FOUNDATION WALLS WITH #5 REBAR AT 16" O.C. BY 3'-0" LONG, WITH STANDARD HOOKS EMBEDDED A MINIMUM OF 9" INTO FOOTING.

CR-14. PROVIDE FOOTING DOWELS TO MATCH VERTICAL WALL REINFORCING.

CR-15. ALL PIER FOOTINGS TO HAVE DOWELS WITH STANDARD HOOKS OF SAME SIZE AND QUANTITY AS PIER STEEL. DOWELS TO LAP PIER STEEL AS REQUIRED FOR A CLASS "B" TENSION SPLICE. HOOK UNDER FOOTING REINFORCEMENT, UNLESS INDICATED OTHERWISE.

CR-16. HOOK HORIZONTAL WALL AND BEAM REINFORCING BARS AT DISCONTINUOUS ENDS, TYPICAL UNLESS INDICATED OTHERWISE. EXTEND REINFORCEMENT TO FAR FACE OF PIERS/PEDESTALS AND/OR COLUMNS UNLESS INDICATED OTHERWISE.

CONSTRUCTION JOINTS WHERE FINISHED FLOOR IS BELOW EXTERIOR GRADE UNLESS OMISSION IS APPROVED BY THE ENGINEER.

CR-17. WATER STOPS SHALL BE PROVIDED IN HORIZONTAL AND VERTICAL

CR-18. PROVIDE ADDITIONAL #4 BARS AT 4'-0" LONG 1" BELOW TOP OF SLAB AT 45° TO ALL RE-ENTRANT CORNERS, OPENINGS IN CONCRETE SLABS AND AS INDICATED ON DRAWINGS.

CR-19. REFER TO FLATWORK DRAWINGS AND/OR SPECIFICATIONS FOR SLAB-ON-GRADE FINISH TYPES AND DEPRESSIONS REQUIRED FOR MATS, TILE, AND OTHER FINISH MATERIALS.

CR-20. NOT USED

CR-21. PITCH CONCRETE TO FLOOR DRAINS. COORDINATE WITH PLUMBING AND ARCHITECTURAL DRAWINGS.

CR-22. NOT USED

CR-23. NOT USED

CR-24. ALUMINUM CONDUIT IS NOT PERMITTED TO BE EMBEDDED IN CONCRETE

EW-1. NOT USED

EW-2. NOT USED

ABBREVIATIONS

= BOTTOM OF

= BEARING

C TO C = CENTER TO CENTER

BRG

CLSM

CONT

DBLT

FV

OC

Rxn

SF#

SIM

SST

STL

T.O.

TBD

TOC

TOL

TOP

TSL

TYP

= BASE PLATE TYPE

= CONTROL JOINT

= CONTINUOUS

= DOUBLE-TEE

= DOUBLE-TEE BEARING

= SPREAD FOOTING TYPE

= LONG LEG HORIZONTAI

= LONG LEG VERTICAL

= STRIP FOOTING TYPE

= STAINLESS STEEL

= TO BE DETERMINED

= TOP OF COLUMN

= TOP OF FOOTING

= TOP OF LEDGE

= TOP OF PIER

= TOP OF STEEL

= TOP OF WALL

= TOP OF SLAB

= TYPICAL

= TOP OF PRECAST

= UNLESS NOTED OTHERWISE

= WELDED WIRE FABRIC/REINFORCEMENT

= NOT IN CONTRACT

= NOT TO SCALE

= ON CENTER

= PIER TYPE

= REACTION

= SIMILAR

= STEEL

= TOP OF

PRCST = PRECAST

= HIGH PERFORMANCE COATING

= PRECAST BEARING (ELEVATION)

= DIAMETER

= EACH FACE

= ELEVATION

= FOUNDATION

= FIELD VERIFY

= GALVANIZED

= JOIST BEARING

= EACH WAY

= CONSTRUCTION CONTROL JOINT

= CONTROLLED LOW STRENGTH MATERIAL ("FLOWABLE FILL")

EW-3. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL RETAIN AN INDEPENDENT, QUALIFIED GEOTECHNICAL ENGINEERING FIRM/TESTING AGENCY TO IDENTIFY AREAS OF POOR SOILS, TO MONITOR PROPER SUBGRADE PREPARATIONS AND TO OVERSEE AND TEST THE PLACEMENT OF COMPACTED FILL MATERIAL

EW-4. ALL SUBTERRANEAN STRUCTURES, UTILITIES, PIPING, ETC. IN THE AREA OF EXCAVATIONS SHALL BE LOCATED AND MARKED BY CONTRACTOR PRIOR TO EARTH REMOVAL WORK. CONTRACTOR SHALL MAINTAIN MARKERS UNTIL EXCAVATION ACTIVITIES HAVE CEASED. IF UNDERGROUND UTILITY CONFLICTS ARE DISCOVERED BEFORE OR ENCOUNTERED DURING EXCAVATION, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.

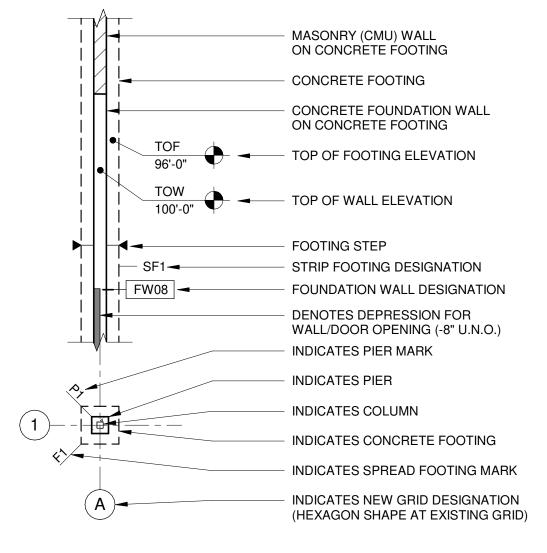
EW-5. BEFORE PLACING FOOTINGS, FOUNDATIONS OR SLAB-ON-GRADE, THE SUB-GRADE SHALL BE PREPARED AND INSPECTED AS REQUIRED BY THE SPECIFICATIONS.

EW-6. DO NOT BACKFILL OR FILL SOIL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST AND/OR ICE.

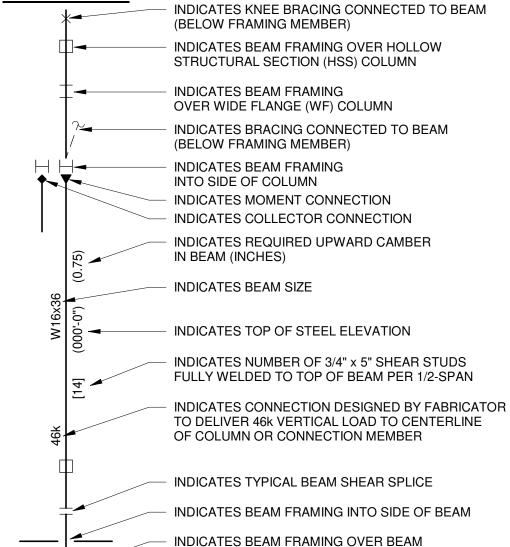
EW-7. PLACE BACKFILL AND FILL SOIL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE.

STRUCTURAL SYMBOLOGY

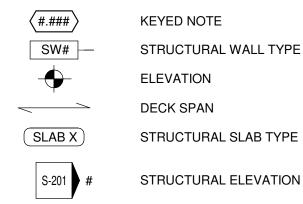
FOUNDATION PLAN

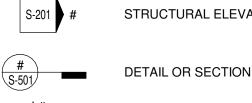


FRAMING PLAN



GENERAL SYMBOLS





LINTEL DESIGNATION

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ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 DATE: February 17, 2021

DESIGNED BY: DKC

DRAWN BY:

CHECKED BY: DRM DO NOT SCALE DRAWINGS SHEET CONTENTS

STRUCTURAL NOTES

STRUCTURAL STEEL NOTES

Fy = 50 KSI (A992 OR A572 Gr 50) W-SHAPES C-SHAPES & ANGLES - Fy = 36 KSI (A36)

PLATES & BARS - Fy = 36 KSI (A36)RECTANGULAR HSS Fy = 46 KSI (A500 Gr B)ROUND HSS Fy = 42 KSI (A500 Gr B)Fv = 35 KSI (A53 Gr B)RODS - Fy = 36 KSI (A36)

- S-1. STEEL BEAMS WITH RESIDUAL CAMBER RESULTING FROM MILL FABRICATION OR ROLLING SHALL BE SHOP FABRICATED AND ERECTED SUCH THAT THIS RESIDUAL CAMBER COUNTERACTS GRAVITY LOAD DEFLECTION.
- S-2. ALL BOLTED CONNECTIONS SHALL UTILIZE 3/4 INCH DIAMETER A325 BOLTS TIGHTENED TO THE SNUG-TIGHT CONDITION UNO. THE SNUG-TIGHT CONDITION IS DEFINED BY THE RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", UNLESS INDICATED OTHERWISE.
- S-3. NOT USED
- S-4. NOT USED
- S-5. NOT USED
- S-6. NOT USED
- S-7. NOT USED
- S-8. NOT USED
- S-9. BEAM AND LINTEL PLATES SHALL BE FULLY GROUTED WITH A MINIMUM 1/2" NON-SHRINK GROUT.
- S-10. ALL WELDING OF NEW STEEL IS TO BE WITH E70XX ELECTRODES, U.N.O. WELDING SHALL BE IN ACCORDANCE WITH THE LATEST AWS SPECIFICATIONS BY CERTIFIED WELDERS.
- S-11. WHEN FIELD WELDING TO EXISTING STEEL, ADJUST WELDING PROCEDURES AS REQUIRED TO BE COMPATIBLE WITH THE NEW AND EXISTING STEEL.
- S-12. THE CONTRACTOR SHALL FURNISH AND INSTALL MISCELLANEOUS STEEL (CURBS, HANGERS, BRACING, ETC.) AS INDICATED AND AS NECESSARY PER ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
- S-13. ALL EXTERIOR STEEL SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A123.

METAL DECK

MATERIAL PROPERTIES (U.N.O) ROOF DECK: GALVANIZED, Fy = 33 KSI

MD-1. SEE PLAN FOR DEPTH AND GAUGE.

- MD-2.METAL DECKING SHALL BE CONTINUOUS OVER 3 SPANS AND HAVE JOINTS OVER SUPPORTING MEMBERS, UNLESS INDICATED OTHERWISE.
- MD-3. BUTTON PUNCHING ROOF DECK IS NOT PERMITTED. REFERENCE DRAWINGS FOR ROOF DECK ATTACHMENT REQUIREMENTS. STRUCTURAL DIAPHRAGM ACTION IS PROVIDED BY THE ROOF DECK AND ITS ATTACHMENT.
- MD-4. ALL MISCELLANEOUS OPENINGS IN METAL ROOF DECK ARE TO BE FRAMED BY L5x3x3/8 ANGLES. LONG LEG OF ANGLES SHALL BE VERTICAL. ANGLES SHALL BE WELDED TO THE TOP CHORD/FLANGE OF ROOF FRAMING AND EACH OTHER, UNLESS INDICATED OTHERWISE.

COLD FORMED STEEL FRAMING NOTES

- CF-1, COLD FORMED STEEL WORK SHALL CONFORM TO THE BUILDING CODED REFERENCED EDITION OF AISI'S "NORTH AMERICAN SPECIFICATION OF FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"
- CF-2. COLD FORMED STEEL SHALL BE GALVANIZED G-60 U.N.O.
- CF-3, STUD, TRACK, AND OTHER APPLICABLE ROLLED SHAPES SHALL CONFORM TO THE NOMENCLATURE AND DIMENSIONS SET FORTH BY THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA), REFER TO SSMA'S "PRODUCT TECHNICAL INFORMATION" CATALOG AND ICC ER 4943P FOR MINIMUM SECTION PROPERTIES AND DIMENSIONS.
- CF-4. SCREWS FOR ATTACHING COLD FORMED STEEL TO COLD FORMED STEEL SHALL BE CORROSION RESISTANT, SELF DRILLING, SELF TAPPING, #10 OR #10 AS INDICATED, PAN OR HEX HEAD, WITH LENGTH, POINT STYLE AND INSTALLATION METHOD IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. PROVIDE 3/4" MINIMUM SPACING BETWEEN SCREWS AND 3/4" MINIMUM EDGE DISTANCE U.N.O.
- CF-5. ALL CONNECTIONS SHALL HAVE AT LEAST (2) #10 SCREWS U.N.O.
- CF-6. FASTENERS FROM COLD FORMED STEEL TO STRUCTURAL STEEL OR CONCRETE SHALL BE 0.157" DIAMETER POWDER DRIVEN FASTENERS "SHOT PINS" UNLESS OTHERWISE NOTED. USE HILTI "X-U" FASTENERS WITH 1" EMBEDMENT INTO CONCRETE WITH WASHERS PER MANUFACTURER, U.N.O. SIZE LENGTH OF SHOT PINS AS REQUIRED BY MANUFACTURER'S ICC ES REPORT FOR ATTACHMENT TO STRUCTURAL STEEL. MANUFACTURER'S EDGE DISTANCE AND SPACING REQUIREMENTS SHALL BE MET AND VERIFIED BY THE CONTRACTOR IN THE FIELD.
- CF-7. WALL TRACKS AND ACCESSORIES SHALL BE THE SAME GAUGE AND WIDTH AS THE STUDS, U.N.O.
- CF-8. PROVIDE SUFFICIENT STUDS AND BLOCKING/BACKING AT ALL GRAB BARS AND WALL HUNG EQUIPMENT, MONITORS, CABINETS, TOILET ACCESSORIES,

COLD FORMED TRUSS FRAMING

- CT-1. PROVIDE BLOCKING BETWEEN TRUSSES LOCATED OVER MASONRY SHEAR WALLS, DESIGN OF STRAP BLOCKING PER TRUSS MANUFACTURER AND SHALL BE IN ACCORDANCE WITH THE STRUCTURAL DESIGN CRITERIA LISTED ON SHEET S-001, REFER TO ROOF FRAMING DETAILS FOR CHORD/COLLECTOR REQUIRED OVER ALL EXTERIOR WALLS.
- CT-2. ALL COLD FORMED STEEL TRUSS AND FRAMING SHALL BE DESIGNED BY MANUFACTURER. SEE MANUFACTURER'S CALCULATIONS FOR INFORMATION NOT INCLUDED IN THE DRAWINGS.
- CT-3. STEEL TRUSS MANUFACTURER TO VERIFY ALL DIMENSIONS FROM FLOOR PLANS AND FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF TRUSSES.
- CT-4. TRUSS MANUFACTURER SHALL PROVIDE A COMPLETE SYSTEM, INCLUDING ALL MISCELLANEOUS ITEMS REQUIRED TO COMPLETE THE SYSTEM. THIS INCLUDES PROVIDING DOUBLE, TRIPLE, OR GREATER NUMBER OF COMBINED TRUSSES AS REQUIRED TO SUPPORT ALL REQUIRED LOADING.
- CT-5. TRUSS MANUFACTURE TO PROVIDE ALL TEMPORARY AND PERMANENT BRIDGING, BRACING, SPECIAL TRUSS CLIPS, ALL TRUSS BEARING CONNECTIONS, AND ALL TRUSS TO TRUSS/GIRDER CONNECTIONS.
- CT-6. PERMANENT BRACING TO BE DESIGNED BY TRUSS MANUFACTURER.
- CT-7. ALL TRUSS TOP CHORDS SHALL BE 20 GAGE MINIMUM.
- CT-8. DESIGN TOP CHORDS FOR 10PSF DEAD LOAD.

STRUCTURAL TESTING AND INSPECTION

- TI-1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT ALL STRUCTURAL WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY STRUCTURAL INSPECTION PROVIDED BY OTHERS DOES NOT RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY. ANY STRUCTURAL DEVIATIONS FROM THE CONTRACT DOCUMENTS THAT ARE FOUND AT A LATER DATE AND ARE DECLARED TO BE SIGNIFICANT BY THE STRUCTURAL ENGINEER SHALL BE CORRECTED BY THE CONTRACTOR WITHOUT COST OR ANY DELAY TO THE PROJECT SCHEDULE.
- TI-2. THE CONTRACTOR SHALL RETAIN AN INDEPENDENT TESTING AGENCY TO PROVIDE FIELD AND LAB TESTING OF CONSTRUCTION MATERIALS, CONSTRUCTION INSPECTIONS AND SPECIAL STRUCTURAL INSPECTIONS. SPECIAL STRUCTURAL INSPECTIONS ARE REQUIRED AS SET FORTH IN THE BUILDING CODE. THE CONSTRUCTION INSPECTION SHALL BE DONE BY QUALIFIED INSPECTORS THAT ARE SATISFACTORY TO THE ARCHITECT AND ENGINEER.
- TI-3. THE CONTRACTOR SHALL PROVIDE THE TESTING AND INSPECTING AGENCY ACCESS TO ALL PLACES WHERE THE WORK IS BEING PERFORMED. A MINIMUM OF 24 HOURS NOTIFICATION SHALL BE GIVEN TO THE TESTING AGENCY AND ARCHITECT/ENGINEER PRIOR TO THE COMMENCEMENT OF WORK REQUIRING TESTING OR INSPECTION.
- TI-4. THE TESTING AGENCY IS NOT AUTHORIZED TO DIRECT OR APPROVE ANY CHANGES FROM THE CONTRACT DOCUMENTS. IF THE CONTRACTOR WISHES TO QUESTION THE TESTING AGENCY'S INTERPRETATION OF THE CONTRACT DOCUMENTS, HE MAY DO SO DIRECTLY WITH THE ARCHITECT OR STRUCTURAL ENGINEER.
- TI-5. THE TESTING AGENCY IS NOT AUTHORIZED TO STOP OR DELAY THE WORK. IF THE CONTRACTOR ELECTS TO CONTINUE WITH A CERTAIN PORTION OF WORK AFTER BEING NOTIFIED BY THE TESTING AGENCY THAT SUCH WORK IS NOT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR DOES SO AT THEIR OWN RISK AND MAY BE REQUIRED TO CORRECT THE WORK AT A LATER DATE.
- TI-6. THE TESTING AND INSPECTING AGENCY IS NOT INSPECTING FOR O.S.H.A. COMPLIANCE OR REQUIRED TO INSPECT TEMPORARY CONSTRUCTION, SUCH AS TEMPORARY BRACING. TEMPORARY CONSTRUCTION IS THE CONTRACTOR'S SOLE RESPONSIBILITY.
- TI-8. TESTING AND INSPECTION IS NOT REQUIRED FOR WORK PERFORMED AT AN OFF-SITE FABRICATION SHOP, UNLESS SPECIFICALLY NOTED OR SPECIFIED OTHERWISE.
- TI-9. THE TESTING AGENCY SHALL SUBMIT A PROPOSAL OF INSPECTION INTERVALS TO THE ARCHITECT/ENGINEER. THIS PROPOSAL SHALL BE SUBMITTED BEFORE ANY OTHER STRUCTURAL SUBMITTALS.
- TI-10. ALL FAILED TESTS AND DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE ENGINEER AND ARCHITECT OF RECORD.
- TI-11. INSPECTION AGENCY SHALL INSPECT FOR CONFORMANCE TO SPECIFIED REQUIREMENTS FOR PROTECTING NEW CONCRETE AND MASONRY FROM THE ADVERSE EFFECTS OF WEATHER, HEATING EQUIPMENT AND OTHER POTENTIALLY HARMFUL CONDITIONS.
- TI-12. CONSTRUCTION TESTING AND INSPECTION BY THE TESTING AND INSPECTING AGENCY IS REQUIRED AS FOLLOWS:
- A. CONCRETE TESTING PER THE SPECIFICATIONS.
- B. CONCRETE INSPECTION SHALL INCLUDE THE PLACEMENT OF REINFORCEMENT. REINFORCING BAR SIZES, SPACING, TIES, LAPS, AND
- C. MASONRY TESTING PER THE SPECIFICATIONS.
- D. MASONRY INSPECTION SHALL INCLUDE THE PLACEMENT OF REINFORCEMENT. REINFORCING BAR SIZES, SPACING, AND LAPS.
- FIELD WELDING INSPECTIONS SHALL INCLUDE VISUAL INSPECTION. FIELD WELDS SHALL BE CONTINUOUSLY VISUALLY INSPECTED.
- F. FIELD BOLTING INSPECTIONS SHALL INCLUDE VISUAL INSPECTION OF ALL THE CONNECTIONS RELATED TO STRUCTURAL STEEL. THE SIZE, TYPE, AND QUANTITY OF BOLTS AND THEIR INSTALLATION SHALL BE INSPECTED. WHERE SLIP-CRITICAL OR PRE-TENSIONED BOLTS ARE SPECIFIED, PRE-TENSIONING OF BOLTS SHALL BE VERIFIED BY BOLT TORQUE
- G. SOIL TESTING PER THE SPECIFICATIONS.

SHOP DRAWINGS

- SD-1. SHOP DRAWINGS SHALL BE SUBMITTED FOR STRUCTURAL ITEMS AS REQUIRED BY THE SPECIFICATIONS. CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.
- SD-2. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS AND PRODUCT DATA FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS PRIOR TO SUBMITTAL. REVIEWED SUBMITTALS SHALL BE STAMPED BY THE CONTRACTOR. ANY SHOP DRAWING OR PRODUCT DATA NOT REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR WILL BE REJECTED. GENERAL CONTRACTOR SHALL CLOUD OR FLAG ALL ITEMS NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SHALL VERIFY ALL DIMENSIONS.
- SD-3. ANY CHANGES, SUBSTITUTIONS OR DEVIATIONS FROM THE ORIGINAL CONTRACT DRAWINGS SHALL BE CLOUDED BY THE MANUFACTURER OR FABRICATOR. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS WHICH ARE CLOUDED OR FLAGGED BY SUBMITTING PARTIES SHALL NOT BE CONSIDERED APPROVED AFTER THE ENGINEER'S REVIEW, UNLESS SPECIFICALLY NOTED ACCORDINGLY BY THE ENGINEER.
- SD-4. THE APPROVED SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY ARE NOT TO BE CONSIDERED CHANGES TO THE ORIGINAL CONTRACT DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ITEMS OMITTED OR SHOWN INCORRECTLY ARE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DRAWINGS.
- SD-5. SHOP DRAWING REVIEW IS INTENDED ONLY FOR GENERAL CONFORMANCE TO THE DESIGN CONCEPT AND CONSTRUCTION DOCUMENTS.
- SD-6. SHOP DRAWINGS WILL BE RETURNED FOR RESUBMITTAL IF MAJOR ERRORS ARE FOUND DURING REVIEW.
- SD-7. ALLOW A MINIMUM OF (15) WORKING DAYS FOR REVIEW OF SHOP DRAWINGS BY THE STRUCTURAL ENGINEER.
- SD-8. TRUSS SHOP DRAWINGS WILL NOT BE REVIEWED BEFORE REVIEW OF STRUCTURAL CALCULATIONS.

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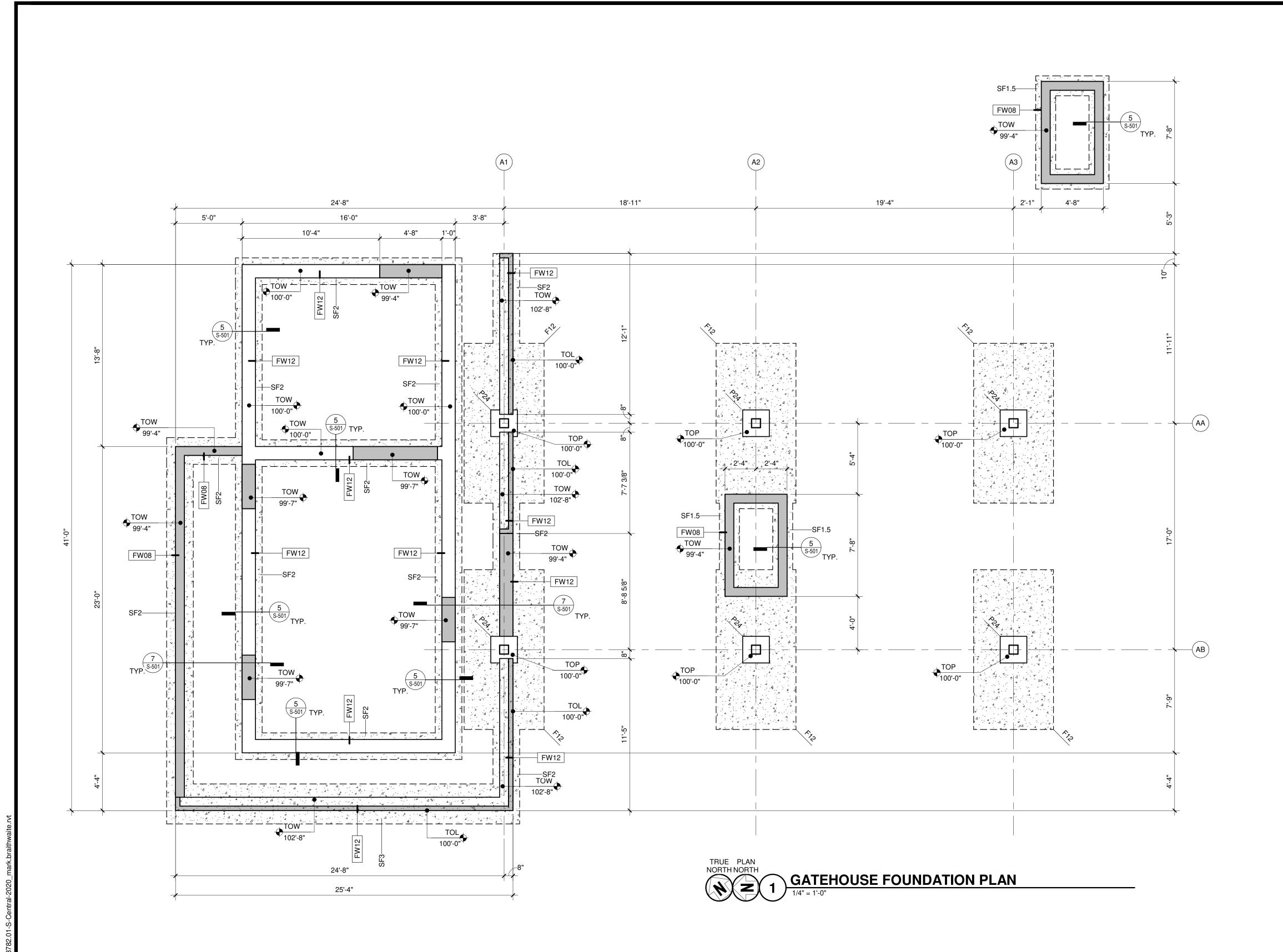
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M&H NO.: 3141900-113782.01 February 17, 2021 DESIGNED BY: DKC DRAWN BY:

CHECKED BY: DRM DO NOT SCALE DRAWINGS SHEET CONTENTS

STRUCTURAL NOTES

SHEET NO .:



FOUNDATION PLAN GENERAL NOTES:

- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
- 2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- 3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOGY.
- 4. REFER TO SHEET S-501 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- 5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- 6. TOP OF FOOTING ELEVATION = 96'-0", UNO.
- 7. TOP OF PIER ELEVATION = 100'-0", UNO.
- 8. STRIP FOOTINGS SHALL BE CENTERED UNDER FOUNDATION AND/OR MASONRY WALLS UNLESS NOTED OTHERWISE.

KEYED NOTES

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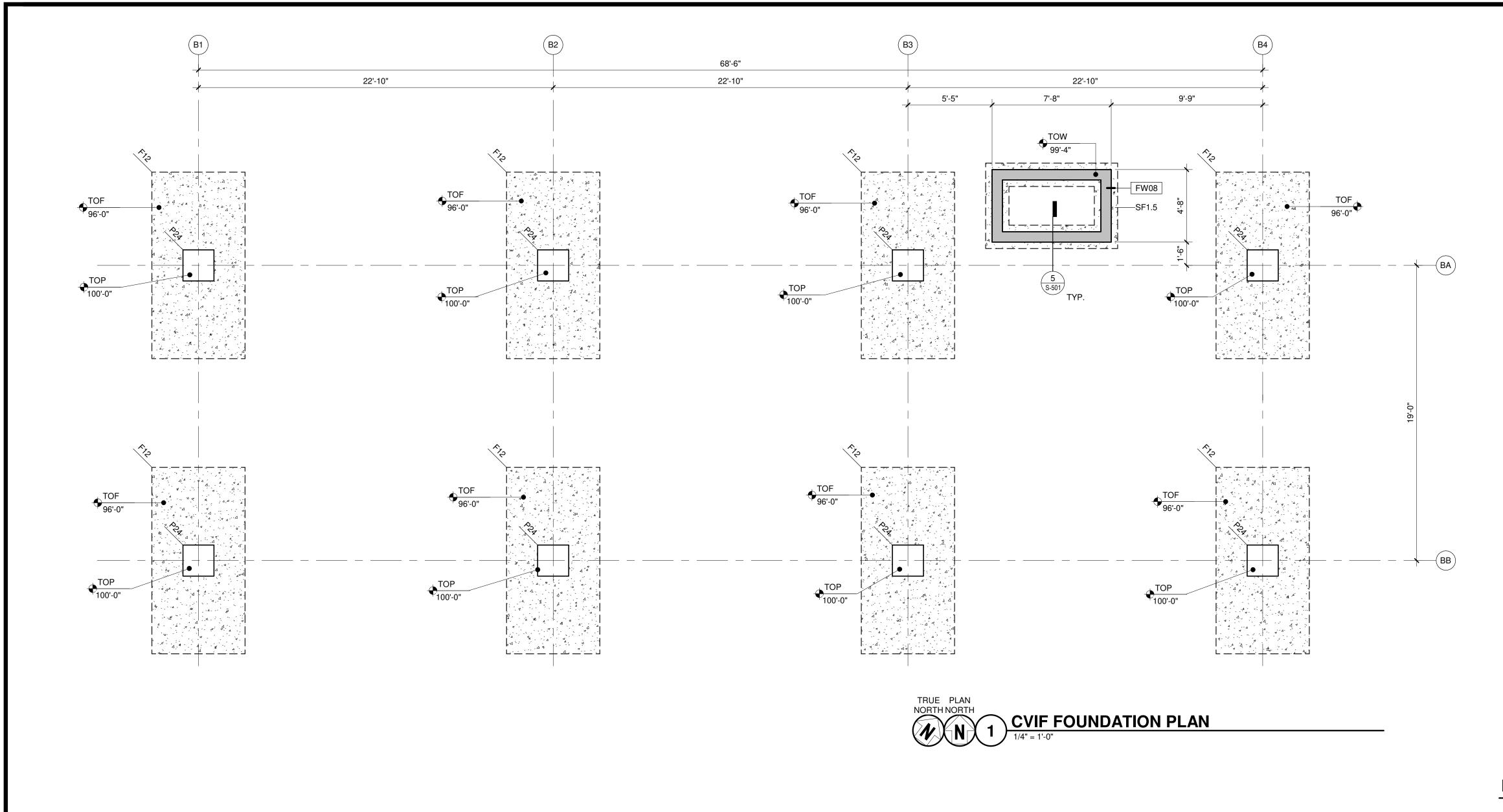
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GATEHOUSE FOUNDATION PLAN



(B3)

CVIF FLATWORK PLAN

100'-0"

FOUNDATION PLAN GENERAL NOTES:

- 1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
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KEYED NOTES

FLATWORK PLAN GENERAL NOTES:

- 1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
- 2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- 3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOGY.
- 4. REFER TO SHEET S-511 FOR TYPICAL DETAILS NOT REFERENCED ON
- 5. REFER TO DETAIL 1/S-511 FOR STRUCTURAL SLAB TYPES.
- 6. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- 7. FOR INTERIOR SLAB ON GRADE SCHEDULED TO BE SEALED CONCRETE APPLY TROWEL FINISH.
- 8. FOR INTERIOR SLAB ON GRADE SCHEDULED TO RECEIVE OTHER ARCHITECTURAL TREATMENT APPLY FINISH RECOMMENDED BY PRODUCT MANUFACTURER.
- 9. FOR EXTERIOR SLAB ON GRADE APPLY BROOM FINISH.
- 10. (2) DASHED LINES = = INDICATE (2) ADDITIONAL #4 BARS (5'-0" LONG) DIAGONAL 6" FROM CORNER IN SLAB, 2" CLEAR FROM TOP OF

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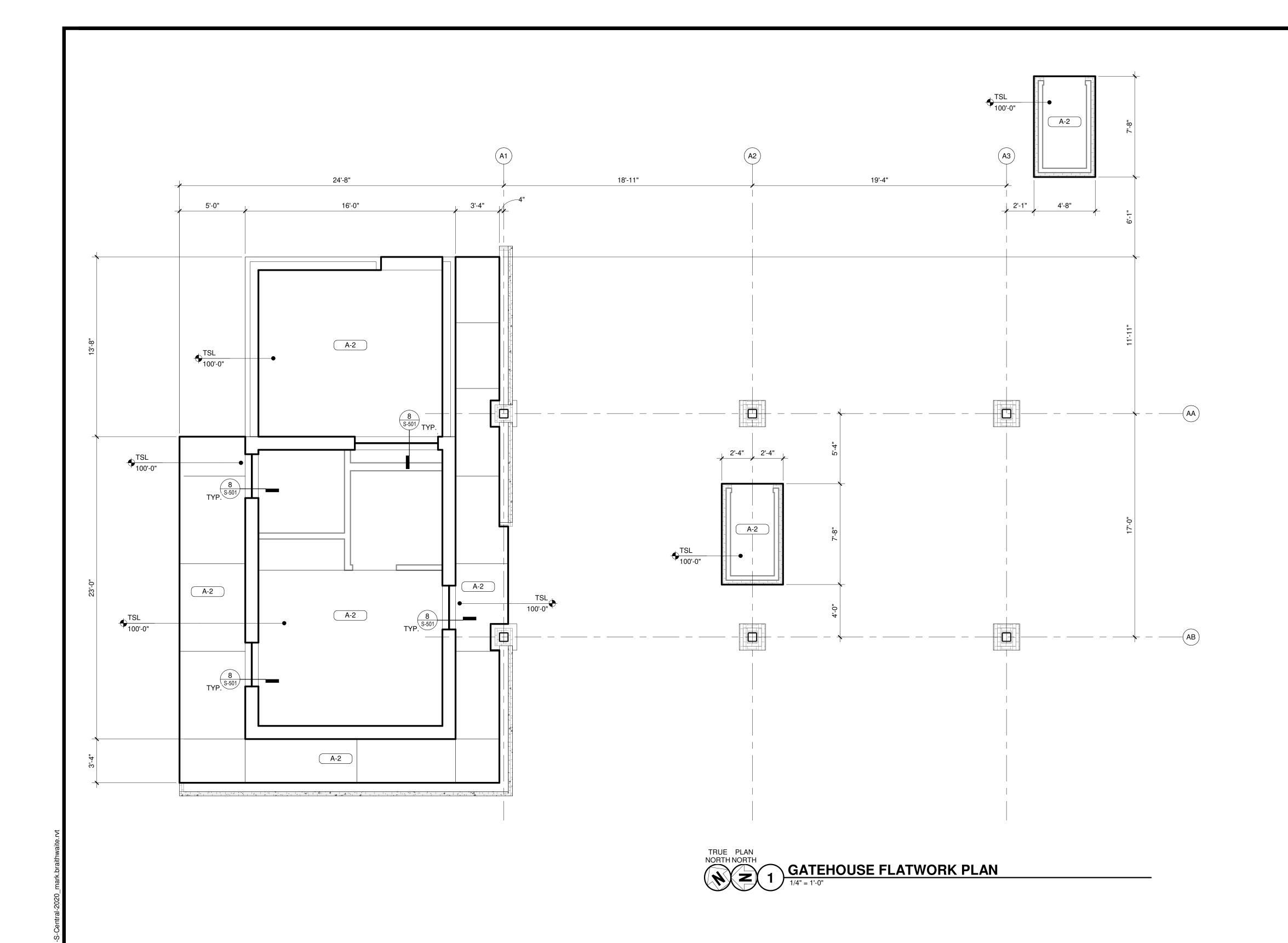
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ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 February 17, 2021

DESIGNED BY: DKC DRAWN BY: CHECKED BY: DRM

DO NOT SCALE DRAWINGS SHEET CONTENTS CVIF FOUNDATION PLAN



FLATWORK PLAN GENERAL NOTES:

- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
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KEYED NOTES



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GUARD AN AIR NATION RUCT MAIN BAS

02/17/21 B3 FINAL

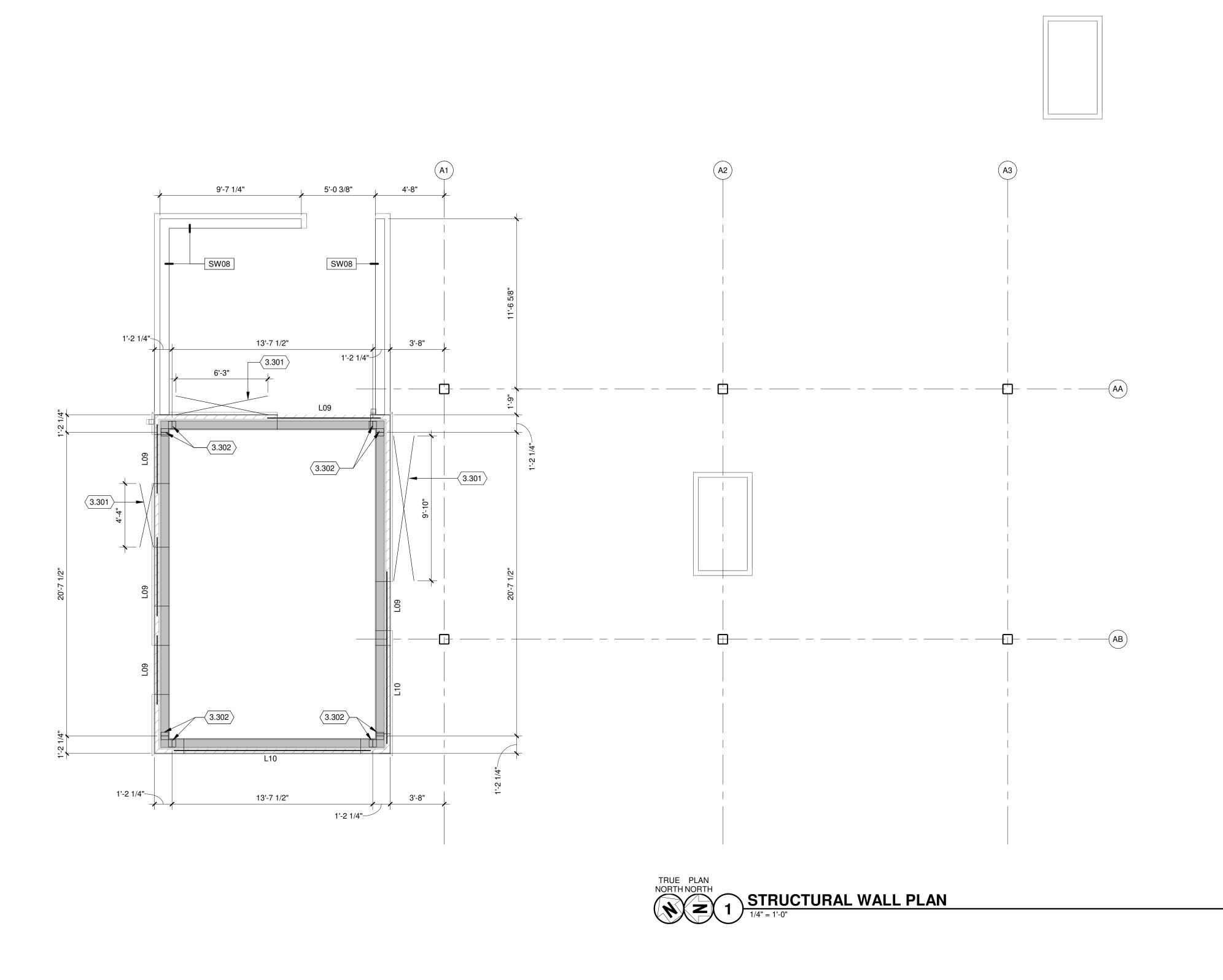
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CRE CRE

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 February 17, 2021

DESIGNED BY: DKC DRAWN BY: CHECKED BY: DRM

SHEET CONTENTS GATEHOUSE FLATWORK PLAN



STRUCTURAL FLOOR PLAN GENERAL NOTES:

- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
- 2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- 3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOGY.
- 4. REFER TO SHEET S-521 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- 5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- 6. TYPICAL STUD WALL FRAMING (1) 600S200-43 AT 16" O.C.
- 7. BOX HEADER AND SILLS AT ALL OPENING SEE DETAILS ON S-521.
- 8. 18 GAUGE MINIMUM FRAMING FOR EXTERIOR MASONRY VENEER.
- 9. PROVIDE WALL STUDS IN LINE WITH ROOF TRUSSES.
- 10. WALL FRAMING SHALL BE CONNECTED WITH PAN HEAD SCREWS

KEYED NOTES

- 3.301 SHEARWALL CROSS BRACING. SEE DETAIL 4/S-521.
- 3.302 JAMB COMPRISED OF DOUBLE STUD (2) 600S200-43 OR APPROVED EQUIVALENT DESIGNED BY MANUFACTURER.

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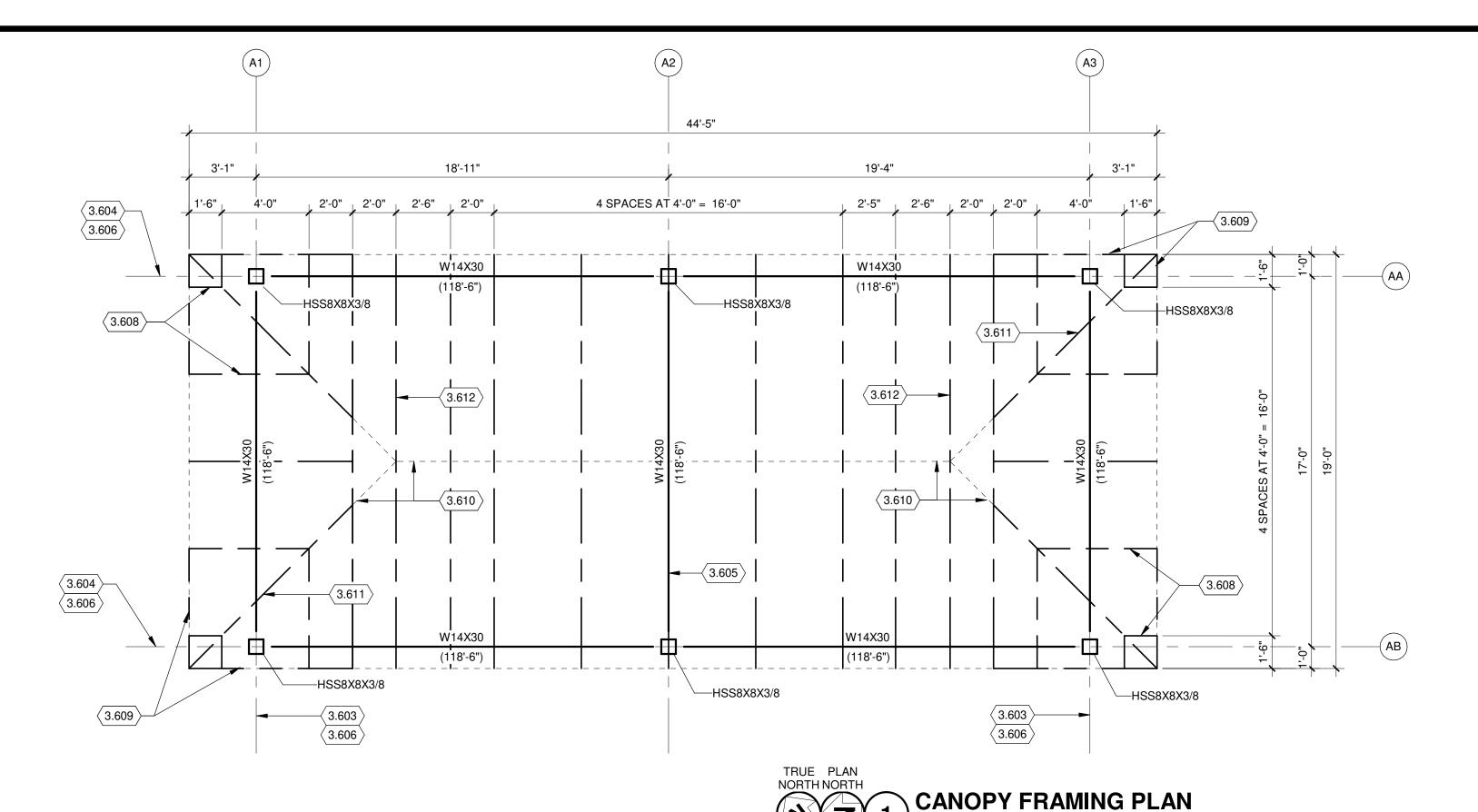
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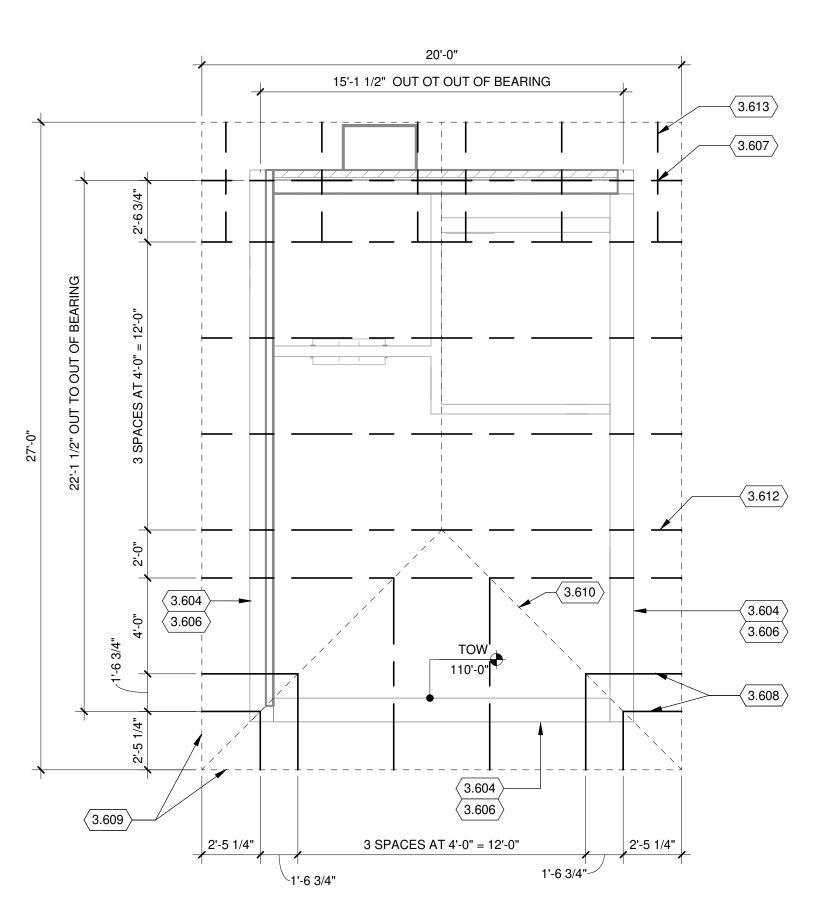
02/17/21 B3 FINAL

M&H NO.: 3141900-113782.01 February 17, 2021

DESIGNED BY: DKC DRAWN BY: CHECKED BY: DRM

SHEET CONTENTS GATEHOUSE STRUCTURAL FLOOR PLAN





ROOF FRAMING PLAN GENERAL NOTES:

- 1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
- 2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- 3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOGY.
- 4. ROOF DECK IS 1 1/2" WIDE RIB, 20 GAUGE.
- 5. FASTEN ROOF DECK WITH #12 SCREWS AT 1'-0" ON CENTER OVER SUPPORTS.
- 6. REFER TO SHEET S-541 FOR TYPICAL DETAILS NOT REFERENCED ON THIS
- 7. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- 8. TRUSS DESIGNER TO DESIGN STRAP BLOCKING PER FORCES NOTED AND STRAP BLOCKING STANDARD DETAIL.
- 9. FOR GATE HOUSE; TRUSS DESIGNER TO DESIGN STRAP BLOCKING PER FORCES NOTED AND STRAP BLOCKING STANDARD DETAIL.
- 10. COLD FORMED WALL AND ROOF TRUSS FRAMING AND CONNECTIONS SHALL BE DESIGNED FOR 10 PSF WIND UPLIFT.

KEYED NOTES

- 3.603 PROVIDE STRAP BLOCKING WITH 2,000 LB CAPACITY THIS LINE OR WALL
- 3.604 PROVIDE STRAP BLOCKING WITH 2,500 LB CAPACITY THIS LINE OR WALL
- 3.605 PROVIDE TRUSS ON TOP OF THIS BEAM. TRUSS TRANSFERS SHEAR
- 3.606 PROVIDE DIAPHRAGM CHORD PER 3/S-541 FULL LENGTH OF THIS GRID
- 3.608 HIP INFILL RAFTER, TYPICAL.
- 3.609 EAVE CORNER BEAM PER COLD FORMED TRUSS DESIGNER, TYPICAL. EAVE BEAM SHALL BE CAPABLE OF SPANNING BETWEEN CORNER HIP GIRDER AND FIRST JACK TRUSSS THAT HAS A BACK SPN EQUAL TO TWO TIMES THE OVERHANG.
- 3.611 HIP GIRDER TYP
- 3.612 TRUSS GIRDER TYP

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- FROM ROOF DECK TO BEAM. DESIGN TRUSS FOR 4,000 LB SHEAR FORCE.
- LINE OR WALL.
- 3.607 DESIGN END WALL TRUSS FOR 2500 LB DIAPHRAGM CHORD FORCE. DESIGN ENDWALL TRUSS FOR 2500 LB IN PLANE SHEAR FORCE. PROVIDE FRAMED OPENING IN ENDWALL TRUSS FOR DUCT. COORDINATE OPENING SIZE WITH MECHANICAL. PROVIDE FULL HEIGHT END WALL STUDS OR TRUSS ON TOP WALL WITH TOP OF WALL BRACING.
- 3.610 20 GAUGE X 20" WIDE HIP AND RIDGE PLATES TYPICAL. FASTEN TO ROOF DECK WITH SAME FASTENER PATTERN AS ROOF DECK TO SUPPORTS. TYPICAL ALL RIDGES AND HIPS.
- 3.613 GABLE ENDWALL OUTRIGGER FOR OVERHANG BY METAL TRUSS DESIGNER/CONTRACTOR.

02/17/21 B3 FINAL

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ANG Project No.: MBMV099170 3141900-113782.01 February 17, 2021 DESIGNED BY: DKC

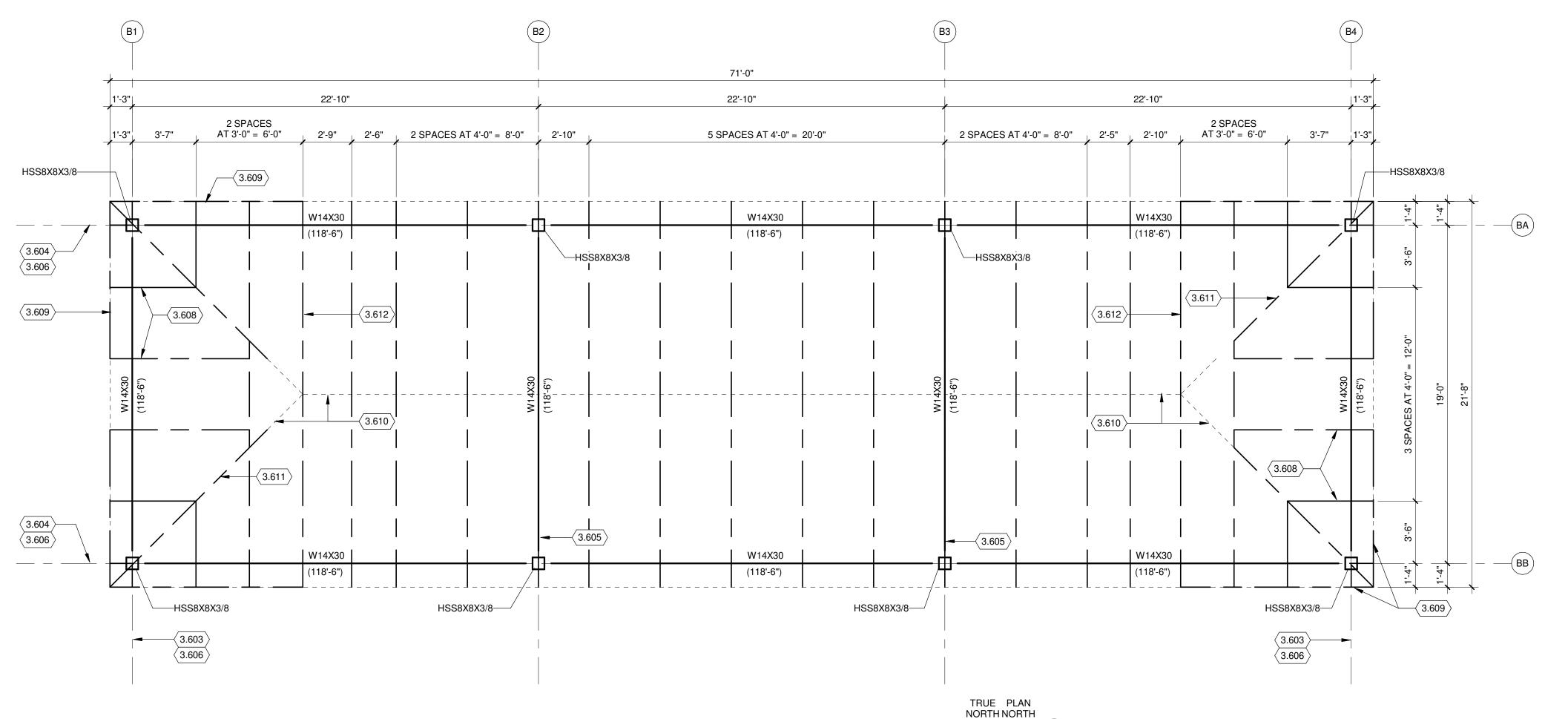
DRAWN BY: CHECKED BY: DRM SHEET CONTENTS

ROOF FRAMING

PLAN

S-151

GATEHOUSE ROOF FRAMING PLAN



ROOF FRAMING PLAN GENERAL NOTES:

- 1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
- 2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- 3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOGY.
- 4. ROOF DECK IS 1 1/2" WIDE RIB, 20 GAUGE.
- 5. FASTEN ROOF DECK WITH #12 SCREWS AT 1'-0" ON CENTER OVER SUPPORTS.
- 6. REFER TO SHEET S-541 FOR TYPICAL DETAILS NOT REFERENCED ON THIS
- 7. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- 8. TRUSS DESIGNER TO DESIGN STRAP BLOCKING PER FORCES NOTED AND STRAP BLOCKING STANDARD DETAIL.
- 9. FOR GATE HOUSE; TRUSS DESIGNER TO DESIGN STRAP BLOCKING PER FORCES NOTED AND STRAP BLOCKING STANDARD DETAIL.
- 10. COLD FORMED WALL AND ROOF TRUSS FRAMING AND CONNECTIONS SHALL BE DESIGNED FOR 10 PSF WIND UPLIFT.

KEYED NOTES

- 3.603 PROVIDE STRAP BLOCKING WITH 2,000 LB CAPACITY THIS LINE OR WALL
- 3.604 PROVIDE STRAP BLOCKING WITH 2,500 LB CAPACITY THIS LINE OR WALL
- 3.605 PROVIDE TRUSS ON TOP OF THIS BEAM. TRUSS TRANSFERS SHEAR FROM
- 3.606 PROVIDE DIAPHRAGM CHORD PER 3/S-541 FULL LENGTH OF THIS GRID LINE
- 3.608 HIP INFILL RAFTER, TYPICAL.
- 3.609 EAVE CORNER BEAM PER COLD FORMED TRUSS DESIGNER, TYPICAL. EAVE BEAM SHALL BE CAPABLE OF SPANNING BETWEEN CORNER HIP GIRDER AND FIRST JACK TRUSSS THAT HAS A BACK SPN EQUAL TO TWO TIMES THE OVERHANG.

CVIF CANOPY FRAMING PLAN

3.612 TRUSS GIRDER TYP

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- ROOF DECK TO BEAM. DESIGN TRUSS FOR 4,000 LB SHEAR FORCE.

- 3.610 20 GAUGE X 20" WIDE HIP AND RIDGE PLATES TYPICAL. FASTEN TO ROOF DECK WITH SAME FASTENER PATTERN AS ROOF DECK TO SUPPORTS. TYPICAL ALL RIDGES AND HIPS.
- 3.611 HIP GIRDER TYP

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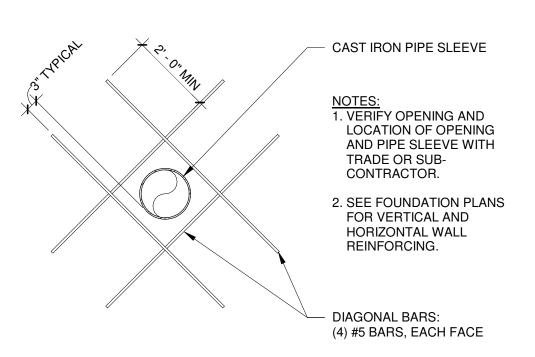
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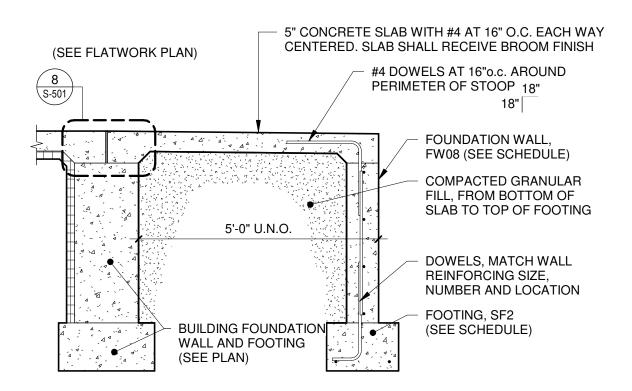
02/17/21 B3 FINAL

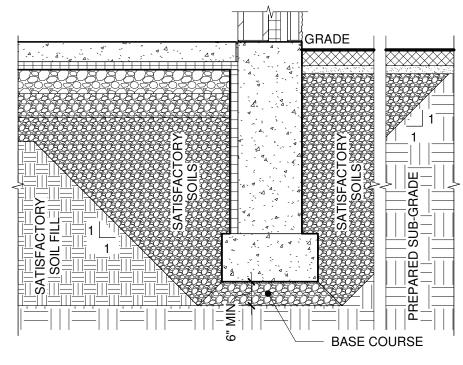
M&H NO.: 3141900-113782.01 DATE: February 17, 2021 DESIGNED BY: DKC DRAWN BY:

CHECKED BY: DRM SHEET CONTENTS CVIF ROOF FRAMING

PLAN







TYPICAL BACKFILL REQUIREMENTS AT EXTERIOR FOUNDATION

T.O. WALL
SEE PLAN

T.O. FOOTING SEE PLAN

BARS CONTINUOUS

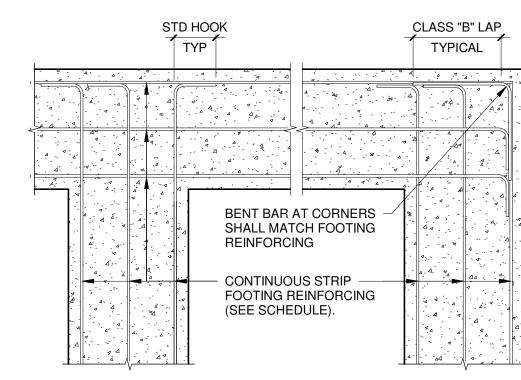
TOP AND BOTTOM

FOUNDATION WALL (SEE PLAN)

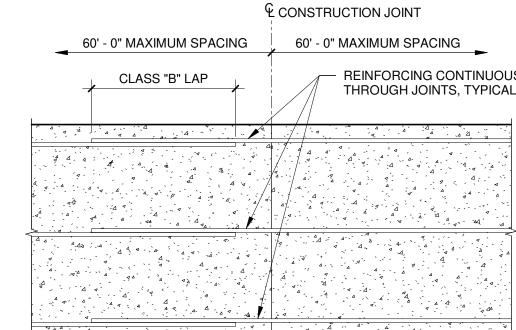
REINFORCING SIZE AND SPACING

FOOTING, CENTERED UNDER FOUNDATION WALL (SEE PLAN)

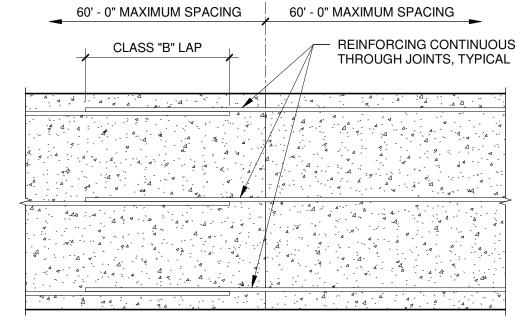
DOWELS, MATCH WALL

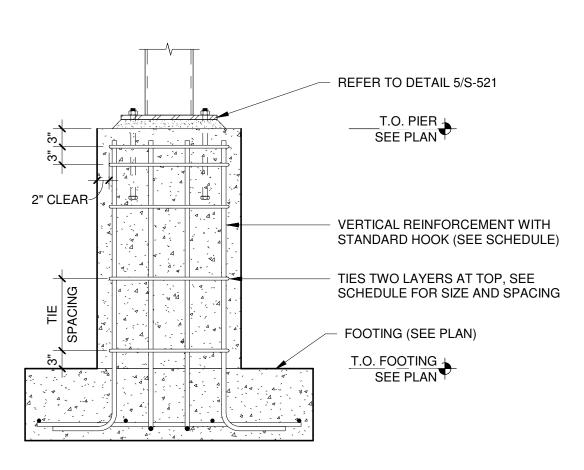


TYPICAL FOOTING INTERSECTIONS

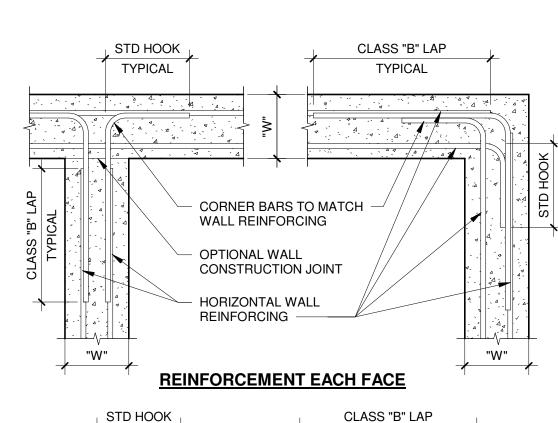


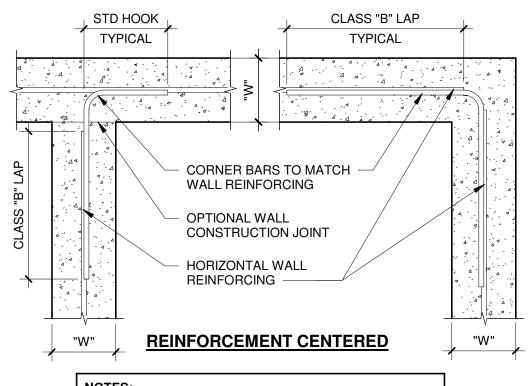
TYPICAL FOOTING CONSTRUCTION JOINT





\ FOUNDATION WALL AT FOOTING





NOTES:

1. VERTICAL REINFORCING NOT SHOWN FOR CLARITY. 2. FOUNDATION WALL LEDGE NOT SHOWN FOR CLARITY 3. "W" = FOUNDATION WALL WIDTH.

3 TYPICAL FOUNDATION WALL INTERSECTIONS

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ISSUED 02/17/21 B3 FINAL

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 DATE: February 17, 2021

DESIGNED BY: DKC DRAWN BY: CHECKED BY: DRM DO NOT SCALE DRAWINGS

SHEET CONTENTS **FOUNDATION DETAILS**

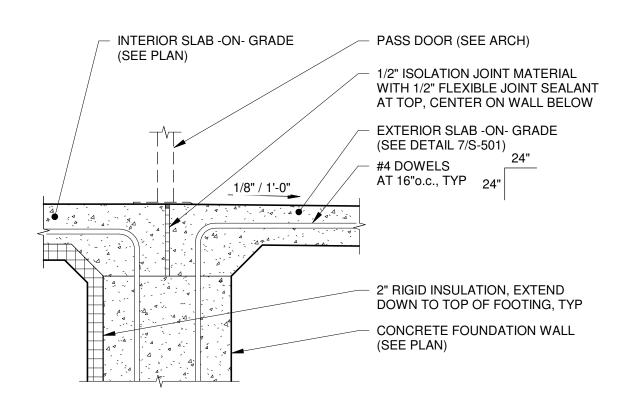
SHEET NO.:

S-501

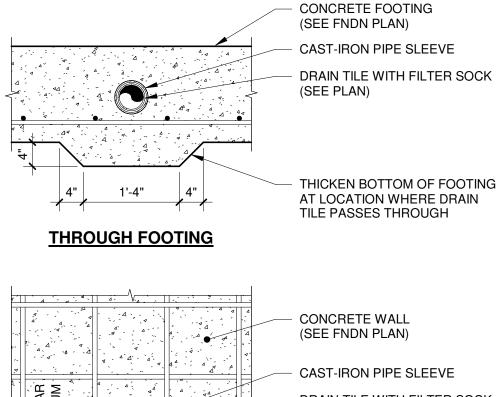
FOUNDATION WALL PENETRATION

1/2" = 1'-0"

TYPICAL STOOP SECTION



SLAB AT PASS DOOR



DRAIN TILE WITH FILTER SOCK (SEE PLAN) CONCRETE FOOTING (SEE FNDN PLAN) , '4 j'4- Á-

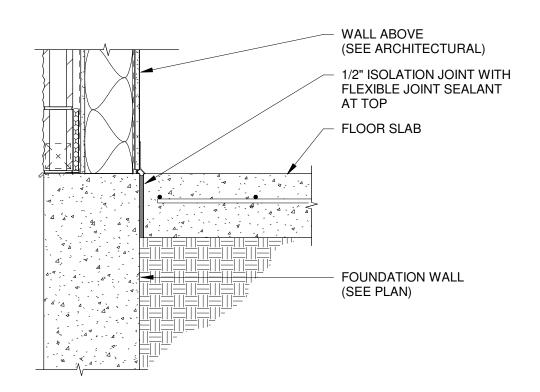
9 DRAIN TILE THROUGH FOUNDATION

3/4" = 1'-0"

THROUGH WALL

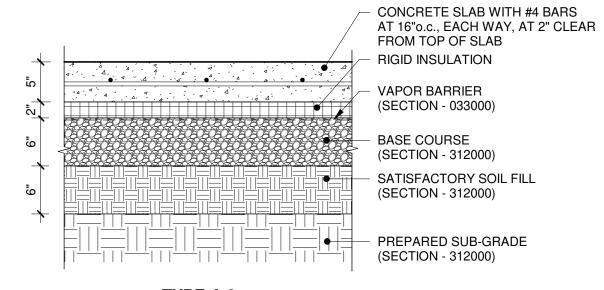
6 TYPICAL PIER SECTION

3/4" = 1'-0"



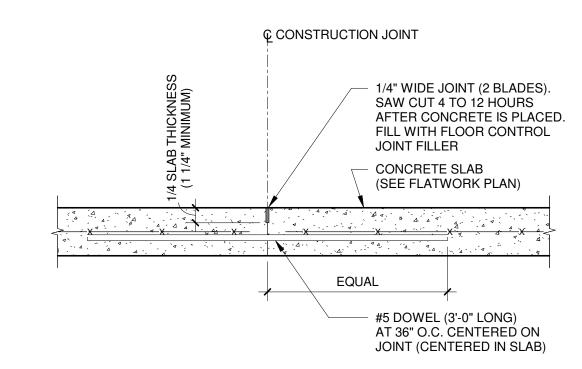
5 SLAB AT EXTERIOR FOUNDATION WALL

1" = 1'-0"

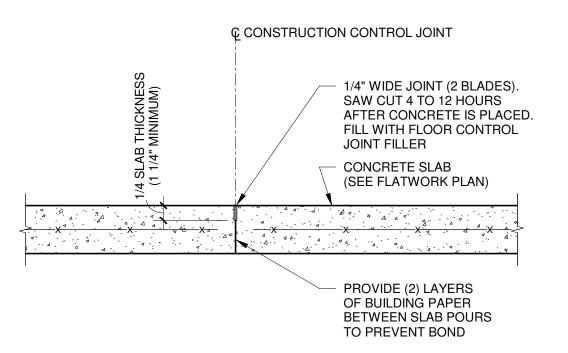


TYPE A-2

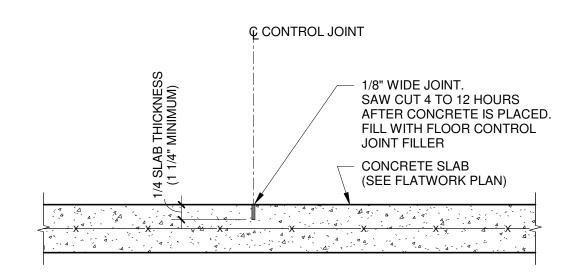
INTERIOR SLAB ON GRADE SLB05



CONCRETE SLAB CONSTRUCTION JOINT (TYPICAL) 1 1/2" = 1'-0"



CONCRETE SLAB CONSTRUCTION 3 CONTROL JOINT "CCJ" (TYPICAL)





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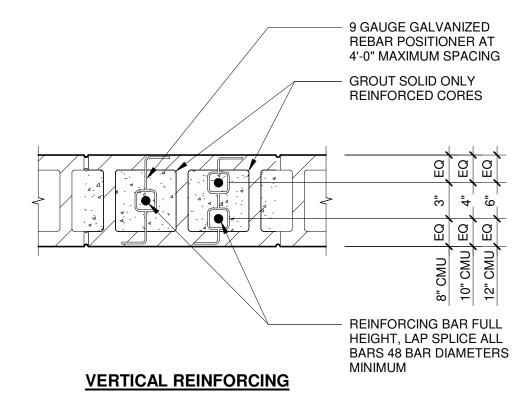
02/17/21 B3 FINAL

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 DATE: February 17, 2021 DESIGNED BY: DKC DRAWN BY:

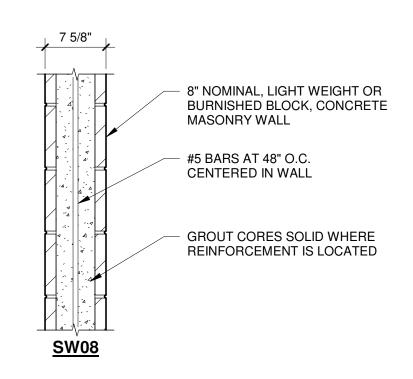
CHECKED BY: DRM SHEET CONTENTS

FLATWORK DETAILS

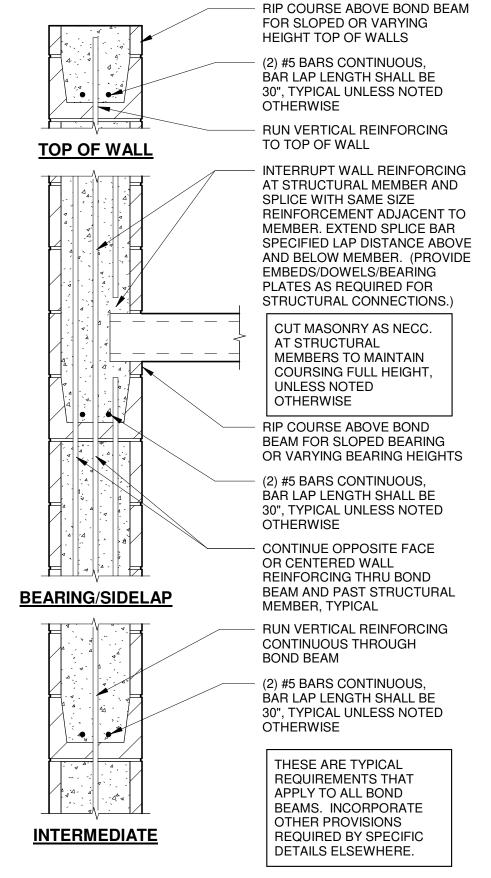
HORIZONTAL REINFORCING



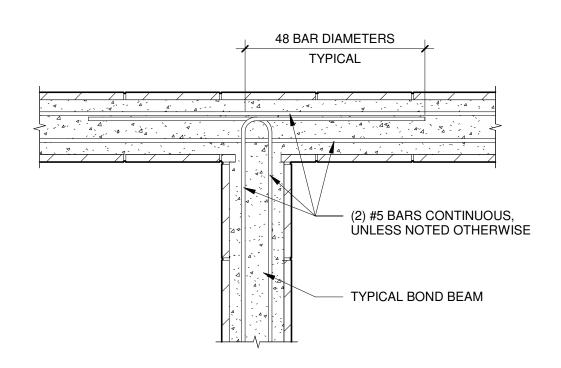
TYPICAL BAR PLACEMENT IN MASONRY CORE



STRUCTURAL WALL TYPES

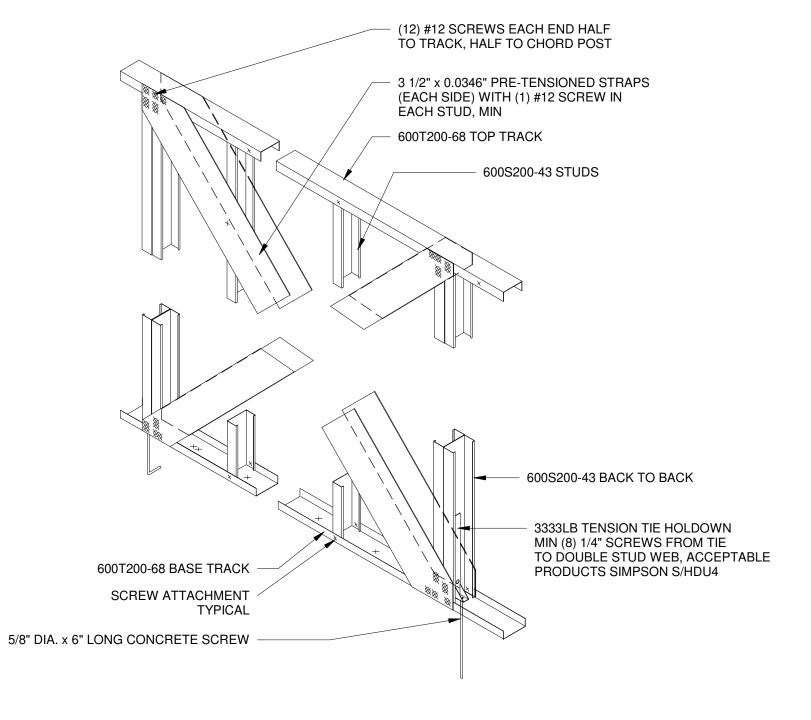


8 TYPICAL MASONRY BOND BEAM 1" = 1'-0"

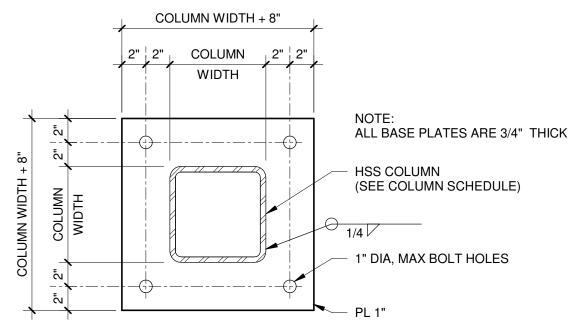


TYPICAL MASONRY 9 BOND BEAM INTERSECTION

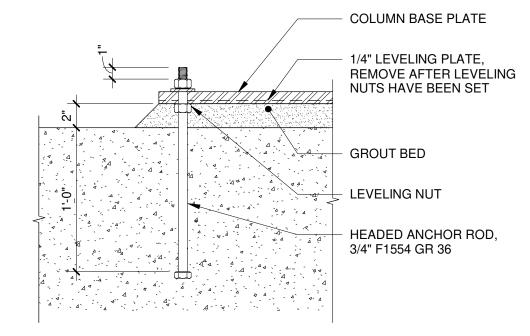
3/4" = 1'-0"



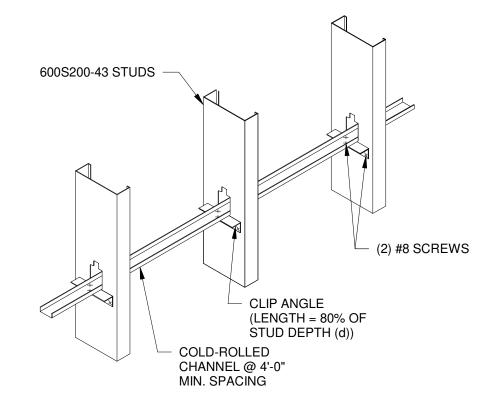
METAL STUD SHEARWALL CROSS BRACING



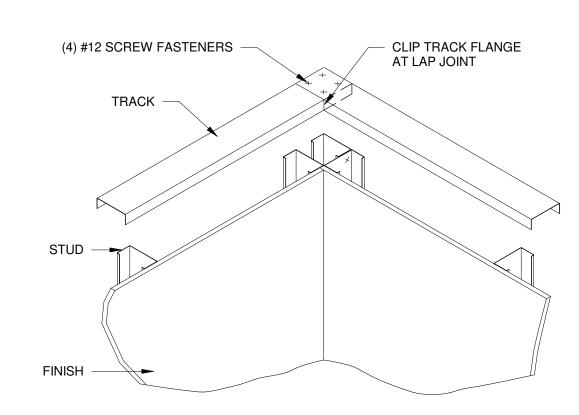
5 HSS COLUMN BASE PLATE 1 1/2" = 1'-0"



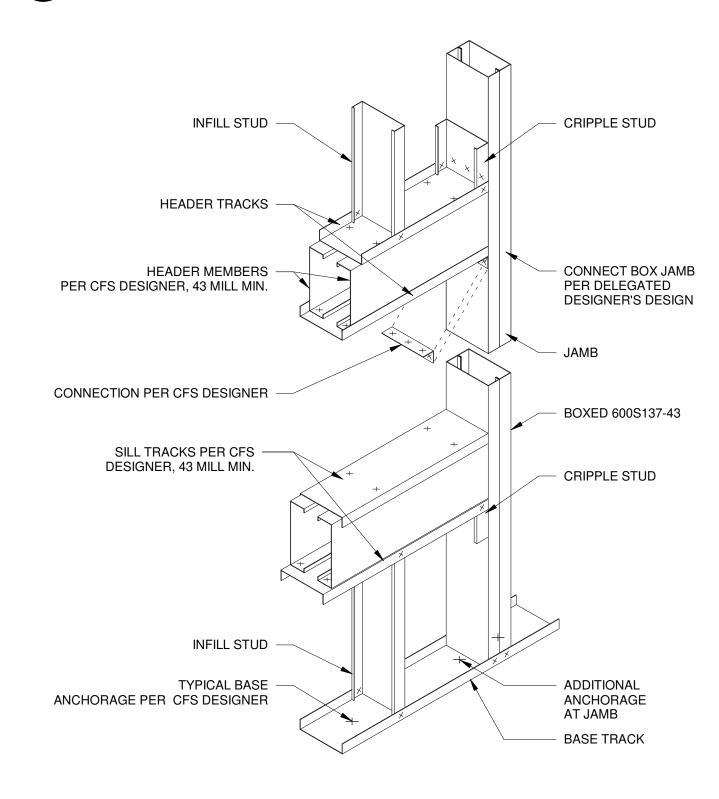
BASE PLATE ANCHORAGE 1 1/2" = 1'-0"



STUD WALL BRIDGING



METAL STUD CORNER FRAMING



METAL STUD WINDOW OPENING (DOOR SIM.) 1" = 1'-0"

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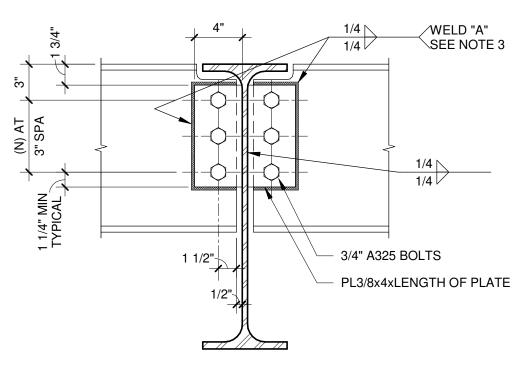
4

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 DATE: February 17, 2021

DESIGNED BY: DKC DRAWN BY: CHECKED BY: DRM DO NOT SCALE DRAWINGS

SHEET CONTENTS WALL DETAILS

SHEET NO.:

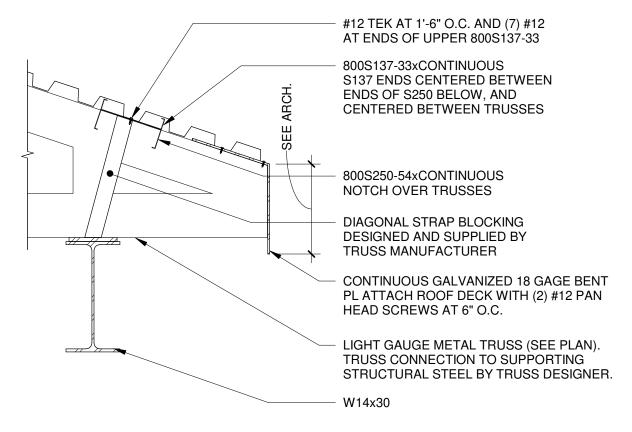


SINGLE PLATE SHEAR CONNECTION					
NOMINAL BEAM DEPTH, INCHES	ROWS OF BOLTS (N)	LENGTH OF PLATE			
W36	10	29 1/2"			
W33	9	26 1/2"			
W30	8	23 1/2"			
W24 - W27	7	20 1/2"			
W21	6	17 1/2"			
W18	5	14 1/2"			
W16	4	11 1/2"			
W12 - W14	3	8 1/2"			
W8 - W10	2	5 1/2"			

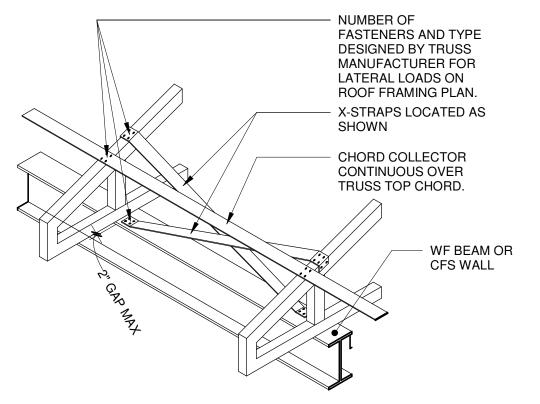
SINGLE PLATE SHEAR CONNECTION NOTES

- ALL FRAMING CONNECTIONS SHALL CONFORM TO SCHEDULE UNLESS DETAILED OR NOTED OTHERWISE.
- STANDARD HOLES OR HORIZONTAL SHORT SLOT HOLES MAY BE UTILIZED AT CONTRACTORS OPTION IN EITHER THE CONNECTION ANGLE OR THE
- WELD "A" MAY BE USED IN LIEU OF "A" SIDE BOLTS AT CONTRACTORS OPTION. WELD SHALL BE ON ALL 3 SIDES.
- FOR MISS-ALIGNED BOLT HOLES, PROVIDE FIELD WELDS. NOTIFY THE ARCHITECT/ENGINEER OF LOCATIONS USING FIELD WELDED CONNECTION.
- REFER TO TYPICAL COPING DETAIL 5/S-541 FOR CONNECTIONS WHERE COPING IS REQUIRED.
- THIS DETAIL IS NOT INTENDED FOR EVERY WF SECTION. CHECK RIDING THE FILLET AND COPE DEPTH PRIOR TO FABRICATION.

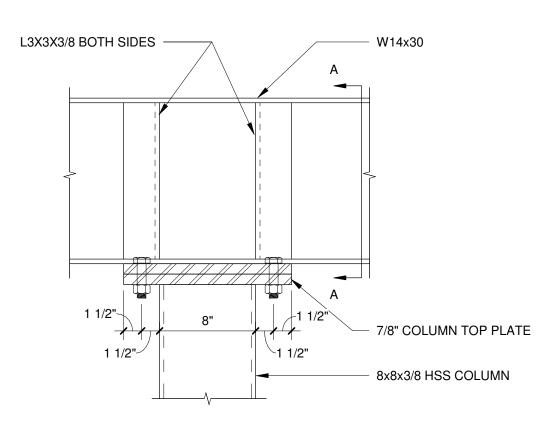
TYPICAL SINGLE PLATE SHEAR FRAMING CONNECTION

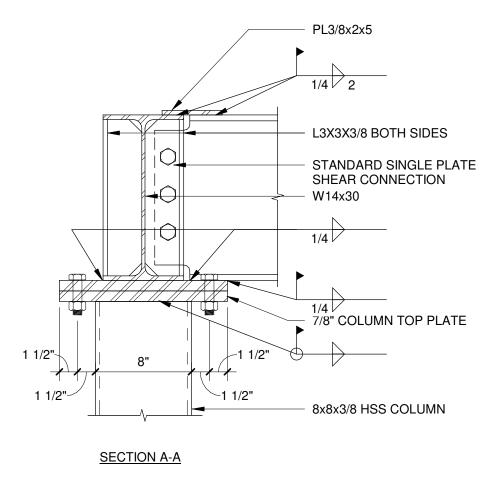


CHORD COLLECTOR



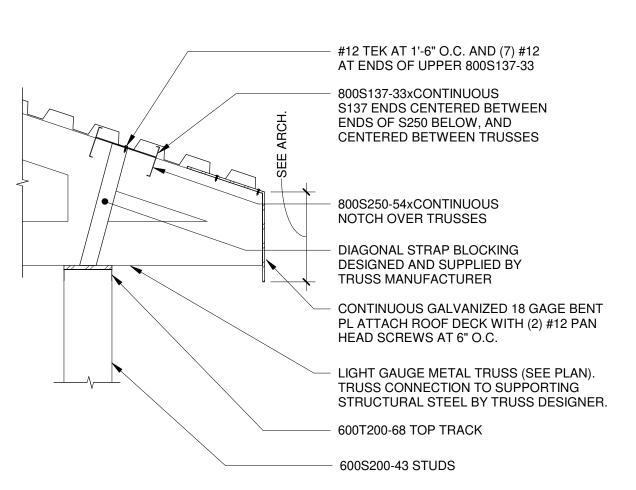
TRUSS BLOCKING DETAIL





NOTE: ALL BOLTS ARE 3/4" DIAMETER A325 FULLY PRETENSION

TYPICAL BEAM OVER HSS COLUMN



TRUSS BEARING AT STUD WALL

1" = 1'-0"

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ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 DATE: February 17, 2021

DESIGNED BY: DKC DRAWN BY: CHECKED BY: DRM

SHEET CONTENTS FRAMING DETAILS

DO NOT SCALE DRAWINGS

	CONCRETE STRIP FOOTING SCHEDULE								
	S	IZE	TOP REINF	ORCEMENT	BOTTOM REI	NFORCEMENT			
MARK	WIDTH "W"	HEIGHT "H"	LONG.	TRANS.	LONG.	TRANS.	REMARKS		
SF1.5	1'-6"	1'-0"			(2) #5				
SF2	2'-0"	1'-0"			(2) #5				
SF3	3'-0"	1'-6"			(3) #5				

CONCRETE STRIP FOOTING SCHEDULE NOTES

- 1. SEE NOTE SHEET S-001 FOR BEARING SOILS PREPARATION REQUIREMENTS.
- 2. SEE 1/S-501 FOR TYPICAL FOOTING INTERSECTION REINFORCING. 3. EMBED DOWELS INTO FOOTING, 3" CLEAR COVER FROM BOTTOM OF FOOTING.
- 4. EXCEPT WHERE SPECIFICALLY NOTED, TYPE "A" FOOTING DOWELS SHALL BE TIED IN PLACE PRIOR TO CONCRETE
- PLACEMENT.

CONCRETE SPREAD FOOTING SCHEDULE								
	SIZE		SIZE BOTTOM REINFORCEMENT		TOP REINFORCEMENT			
MARK	WIDTH	LENGTH	THICKNESS	LONG.	TRANS.	LONG.	TRANS.	REMARKS
F12	12'-0"	6'-0"	1'-2"	(6) #6	#6 AT 16"o.c.	(6) #6	#6 AT 16"o.c.	

CONCRETE SPREAD FOOTING SCHEDULE GENERAL NOTES

1. SEE NOTE SHEET S-001 FOR BEARING SOILS PREPARATION REQUIREMENTS.

CONCRETE SPREAD FOOTING SCHEDULE REMARKS

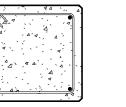
1. LOCATE LONGITUDINALBOTTOM BARS BELOW TRANSVERSE BOTTOM BARS. 2. LOCATION LONGITUDINAL TOP BARS ABOVE TRANSVERS TOP BARS.

	CONCRETE PIER SCHEDULE						
			TIES				
		VERTICAL	# AND				
MARK	SIZE	REINFORCEMENT	TYPE	SPACING	REMARKS		
P24	24"x24"	(12) #6	С	#3 @ 12" O.C.	DOUBLE TOP TIE		

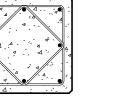
CONCRETE PIER SCHEDULE GENERAL NOTES

- 1. SEE FOUNDATION PLANS FOR TOP OF PIER ELEVATIONS.
- 2. REFERENCE TYPICAL TIE DETAILS FOR CROSS-TIE REQUIREMENTS.
- 3. WHEN PIERS ARE INTEGRAL WITH WALLS, PIER DIMENSIONS ARE INDICATED FOR THE PURPOSE OF DIMENSIONING PIER TIES, SETTING VERTICAL REINFORCING, DEFINING EXTENT OF TOP OF PIER RECESS OR PROJECTION FROM TOP OF WALL. CENTER PIER REINFORCING CAGE BELOW COLUMN AND ORIENT LONG DIMENSION OF PIER WITH AXIS OF WALL UNLESS NOTED OR DETAILED OTHERWISE. CONTINUE WALL REINFORCING THROUGH PIERS WITH LAPS AS REQUIRED.
- 4. SEE DETAIL 6/S-501 FOR TYPICAL PIER CONSTRUCTION.

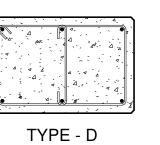




TYPE - A



TYPE - B



TYPE - E

TYPE - F

A ... A

TYPE - C

FOUNDATION WALL SCHEDULE							
		REINFOF					
MARK	WIDTH	HORIZONTAL	VERTICAL	REMARKS			
FW08	8"	#5 BARS @ 18"o.c., CENTERED	#5 BARS @ 18"o.c., CENTERED				
FW12	1'-0"	#5 BARS @ 18"o.c., EACH FACE					

LINTEL SCHEDULE						
MARK	DESCRIPTION	BEARING	DETAIL	REMARKS		
L09	L5x5x5/16	8" E.E.		1		
L10	L5x5x1/2	8" E.E.		1		

LINTEL SCHEDULE GENERAL NOTES

1. HOT DIPED GALVANIZED.

S-601

Mead & Hunt, Inc.

2440 Deming Way Middleton, WI 53562

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02/17/21 B3 FINAL

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 DATE: February 17, 2021

DESIGNED BY: DKC DRAWN BY: MAB CHECKED BY: DRM

SHEET CONTENTS SCHEDULES

ANGLE

ANCHOR BOLT

ACOUSTIC CEILING TILE

ACOUSTIC CEILING PANEL

ABOVE FINISH FLOOR

ACOUSTIC

AREA DRAIN

ADDITIONAL

ALUMINUM

ALTERNATE

ACCESS PANEL

APPROXIMATE

ASPHALT

BOND BEAM

BOTH FACES

BITUMINOUS

BUILDING

BLOCKING

BLANKET

BLOCK

BOTTOM

BEARING

BREAKER

BRACKET

BASEMENT

BETWEEN

CHANNEL

CABINET

CERAMIC

CEILING

CLEAR

COLUMN

CONCRETE CONFERENCE

COMBINATION

CONSTRUCTION

CONTINUOUS

CONTRACTOR

CERAMIC TILE

COLD WATER

CENTER/COUNTER

CABINET UNIT HEATER

DRINKING FOUNTAIN

DEMOUNTABLE PARTITION

DEFORMED WELDED STUD

ELECTRICAL CONTRACTOR

ELECTRICAL HEATER/EXHAUST

COUNTERSUNK

CORRIDOR

CARPET

CASING

DEPTH

DOUBLE

DIAMETER

DIAGONAL

DIMENSION

DIRECTION

DIVISION

DOWN

DITTO

DOOR

DRAWER

DRAWING

DOWEL

DOWNSPOUT

EACH FACE

ELEVATION

ELECTRICAL

EMBEDDED

ENTRANCE

EQUIPMENT

EACH WAY

EXCAVATE

EXPANSION

EXPOSED

EQUAL

EMERGENCY

EXPANSION JOINT

ELEVATOR/ELEVATION

EMERGENCY SHOWER

EXISTING TO REMAIN

EXPLOSION PROOF EXTERIOR

ELASTIC VINYL COATING

ELECTRIC WATER COOLER

ELASTOMERIC SHEET ROOFING

DETAIL

CORNER GUARD

COAT HOOK

CAST IN PLACE

CLOSET/CLOSURE

CONTRATOR INSTALLED

CONTRACTOR FURNISHED,

CONCRETE MASONRY UNIT

CONNECTION/CONNECT

COAT RACK/CURTAIN ROD

CONTROL JOINT/CONSTRUCTION

BACK SPLASH

BRICK

BUMPER GUARD

BOARD

ADJUSTABLE

AIR HANDLING UNIT

ARCHITECTURAL

BELOW FINISH CEILING

BEAM/BENCH MARK

ACCESS

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ACP

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ADJ

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APPROX

ARCH

ASPH

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BS **BSMT**

BRKR

FIELD ADJUSTABLE

FIELD VERIFY

FLOOR DRAIN

FINISH

FIXTURE

FLEXIBLE

FLOOR

FLOORING

FOOTING

FURRING

GALVANIZED

GRAB BAR

GENERAL

FEET

GAUGE

GALLON

GLASS

GYPSUM

HEIGHT

HOOK

HARDBOARD

HARDWOOD

HARDWARE

HOLLOW METAL

HEAD WELDED STUDS

INSIDE DIAMETER

INSULATED ROOF FILL

INSULATED METAL PANEL

INSULATED PLENUM WALL

KNOCK-OUT / KNEE OPENING

HIGH POINT

HANDRAIL

INCHES

INTERIOR

INFORMATION

JANITOR

JANITOR SINK

KNOCKED DOWN

LABORATORY

LINEAR DIFFUSER

LONG LEG HORIZONTAL

LONG SLOTTED HOLE

LIGHTWEIGHT CONCRETE

MASONRY BEARING WALL

MECHANICAL CONTRACTOR

MEDIUM DENSITY OVERLAY

LONG LEG VERTICAL

LONGITUDINAL

LAMINATED

POUNDS

LANDING

LINEAR FOOT

POUND

LONG

LIGHT

LOCKER

LOW POINT

LIGHTING

LOUVER

MACHINE

MANUAL

MARBLE

MASONRY

MATERIAL

MAXIMUM

MACHINE BOLT

MECHANICAL

MEMBRANE

MANUFACTURER

MISCELLANEOUS

MASONRY OPENING

METAL PARTITION

MACHINE SCREW

METAL LATH

MOLDING

MOUNTED

MOUNTING

METAL

MEZZANINE

MINIMUM

MIRROR

MARK

JOIST

JOINT

INSULATION

HEIGHT

HANDICAPPED

FIRE RETARDANT

FULL SIZE/FULL SCALE

GENERAL CONTRACTOR

GLAZED MASONRY UNIT

GYPSUM WALL BOARD

GOVERNMENT FURNISHED, CONTRACTOR INSTALLED

GOVERNMENT FURNISHED, GOVERNMENT INSTALLED

GLASS FIBER REINFORCED CONCRETE

HEATING VENTILATION AND AIR CONDITIONING

GLASS FIBER REINFORCED GYPSUM

FOUNDATION

FIRE EXTINGUISHER

FIRE HOSE CABINET

FIRE EXTINGUISHER CABINET

FIREPROOF/FIRE PROTECTION

FV

FD

FΕ

FEC

FHC

FIN

FIX

FLEX

FLR

FLRG

FT

GΑ

GAL

GB

GC

GEN

GFCI

GFRC

GL

GMU

GWB

GYP

HDCP

HDWD

HDWE

HK

HP

HR

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IPW

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PRE FAB

PRE FIN

NS

NOT APPLICABLE

NUMBER

NOMINAL

OVERALL

OFFICE

OUNCE

PIECE

PLASTER

PLUMBING

PLYWOOD

PANEL

PANELING

POLISHED

PREFABRICATED

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

ROOFTOP AIR HANDLING UNIT

REINFORCED CONCRETE

RADIANT CEILING PANEL

/ REFLECTED CEILING PLAN

STANDARD AGGREGATE TOPPING

PRE-FINISHED

POINT/PAINT

QUARRY TILE

RUBBER BASE

ROOF DRAIN

REFERENCE

REINFORCING

RELOCATE

REQUIRED

RESILIENT

RETURN

ROUGH IN

RUBBER

ROUGH OPENING

RUBBER TILE

SOIL BEARING

SCHEDULE

SHELF EDGE

SAND FLOAT

SECTION

SINGLE

SHELF

SIMILAR

SMOOTH

STEEL JOIST

SOAP DISPENSER

SUPPLY AIR GRILLE

SHORT LEG VERTICAL

SANITARY NAPKIN DISPENSER

SANITARY NAPKIN VENDER

STRUCTURAL/STRUCTURE

ABBREVIATIONS ABOVE ARE FOR ARCHITECTURAL SHEETS ONLY.

SHOWER DOOR

SLAB ON GRADE

SPECIFICATION

SHOWER ROD

STAINLESS STEEL

SPRINKLER

SQUARE

STANDARD

STORAGE

SUSPENDED

SHEET VINYL

SYMMETRICAL

STEEL

SEAMLESS COATING

SPECIAL CONCRETE FINISH

ROOM

REMAINDER

RECESSED

QUANTITY

RADIUS

PAINT TO MATCH

POLYVINYL CHLORIDE

OPENING

OPPOSITE

PARTITION

PRECAST CONCRETE

PHILLIPS HEAD/PHASE

PROTECTED METAL

PORTLAND CEMENT PLASTER

PAPER TOWEL DISPENSER & WASTE RECEPTACLE

PLASTIC LAMINATE/PLATE/PROPERTY LINE

ON CENTER

NONSHRINK

NOT TO SCALE

NOT IN CONTRACT

NORMAL WEIGHT CONCRETE

OUTSIDE DIAMETER/OVERFLOW DRAIN

T & B

TB

TBR

TCP

TD

TDW

TEMP

TER

TEX TFC

T & G

THK TOB

TOC

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TOP

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WC

WD

WF

WG

W/O

WP

WR

WPFG

WSCT

WSTP

WTR

WWF

WDW

UNO

TRAN

TRANS

TOP AND BOTTOM

TO BE REMOVED

TERRAZZO

TEXTURE

TOP OF BEAM

TOP OF FOOTING

TOP OF JOIST

TOP OF WALL

TOPPING

TRANSOM

TRANSVERSE

UNDERGROUND

TUBE STEEL

TYPICAL

URINAL

VINYL

VINYL BASE

VERTICAL

VESTIBULE

VOLUME

WOOD

WINDOW

WITHOUT

WAINSCOT

WATER

EXISTING

THIN COAT PLASTER

TOWEL DISPENSER

TACKBOARD/TOWEL BAR

TOWEL DISPENSER AND WASTE

TROWELED FLOOR COVERING

TOP OF CURB/TOP OF CONCRETE

TEMPERATURE/TEMPERED

TONGUE AND GROOVE

TOP OF PIPE ELEVATION

TOILET PAPER HOLDER

THREADED WELDED STUD

UNLESS NOTED OTHERWISE

VINYL COMPOSITION TILE

VINYL WALL COVERING

WELDED ANGLE FRAME

WATER CLOSET

WIDE FLANGE

WEATHERPROOF

WEATHERSTRIP

WATERPROOFING

WASTE RECEPTACLE

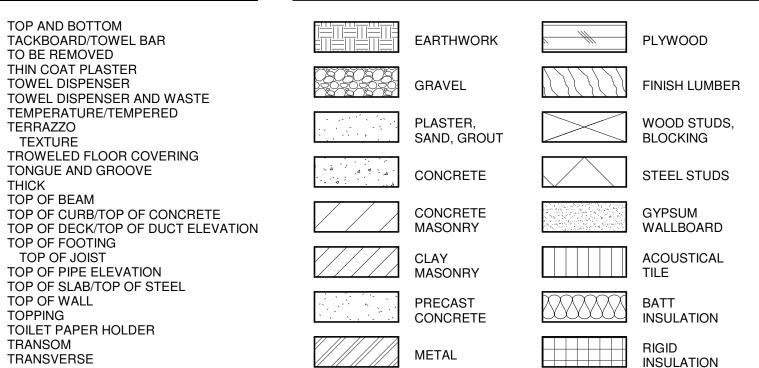
WELDED WIRE FABRIC

WIRE GLASS

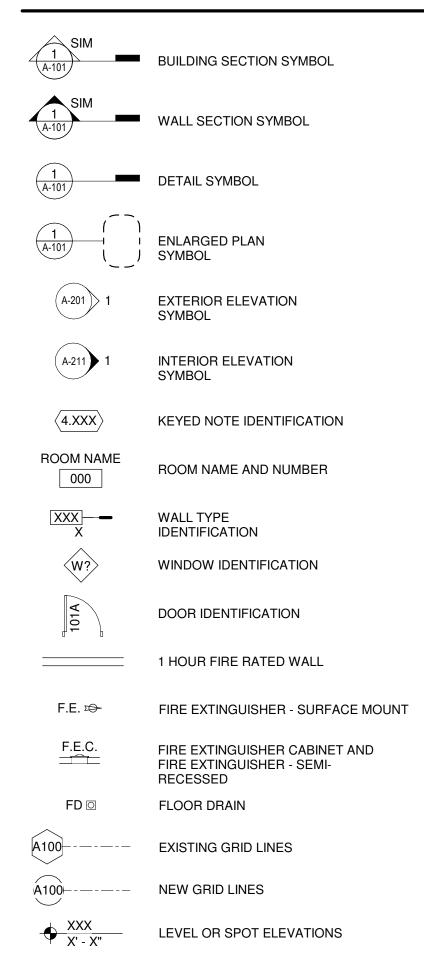
WIDE FLANGE STEEL BEAM

TOP OF SLAB/TOP OF STEEL

HATCH SYMBOLS



LEGEND - PLAN SYMBOLS



CEILING HEIGHT & FINISH

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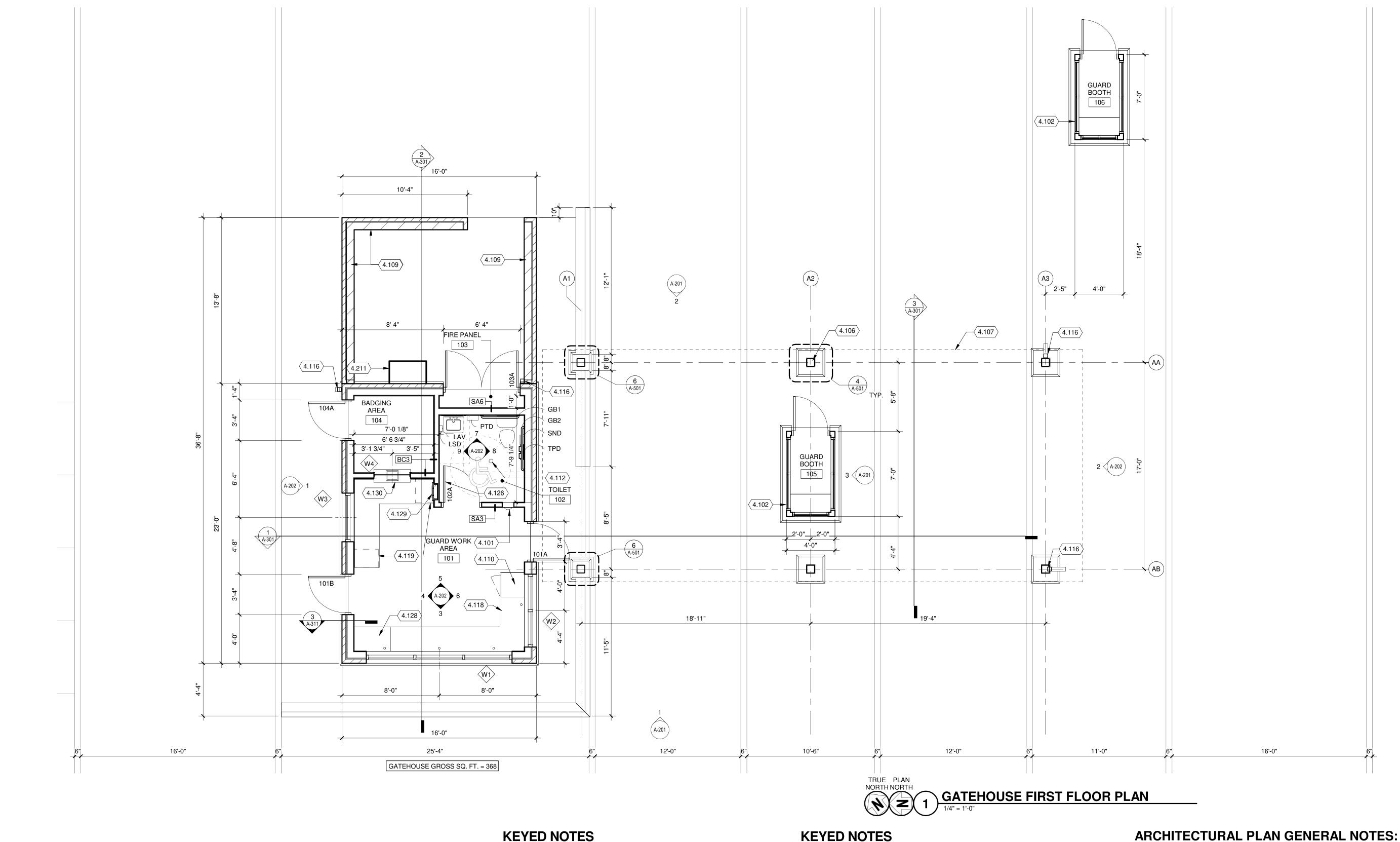
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ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 DATE: February 17, 2021 DESIGNED BY: PJC

DRAWN BY: MAB CHECKED BY: GAM DO NOT SCALE DRAWINGS

SHEET CONTENTS NOTES & SYMBOLS

SHEET NO .:



- 4.101 SEMI-RECESSED FIRE EXTINGUISHER CABINET.
- 4.102 PREFABRICATED GUARD SHACK, SEE SPECIFICATIONS.
- 4.106 PAINTED CANOPY COLUMN, TYPICAL. SEE STRUCTURAL.
- 4.107 EDGE OF CANOPY ABOVE.
- 4.109 4" NOMINAL BRICK VENEER ON 8" CMU BACK UP WITH 4" HIGH PRECAST CAP, GROUT CORES SOLID, TOP COURSE OF WALL TO BE A BOND BEAM.
- 4.110 UNDER COUNTER REFRIGERATOR, GFCI.
- 4.112 FLOOR DRAIN, SEE PLUMBING DRAWINGS.
- 4.116 4" X 4" PREFINISHED METAL DOWNSPOUTS CONNECT TO STORM PIPE, SEE DETAIL 4/A-103 AND CIVIL DRAWINGS.

KEYED NOTES

- 4.118 SOLID SURFACE WORK SURFACE.
- 4.119 PLASTIC LAMINATE CABINETRY WITH SOLID SURFACE COUNTERTOP.
- 4.126 INSTALL TOILET SIGNAGE ON DOOR, SEE DETAIL 4/A-141 AND 5/A-141.
- 4.128 COUNTERTOP SHALL BE REMOVABLE IN THIS LOCATION TO ACCESS EQUIPMENT MOUNTED UNDER COUNTER. COORDINATE WITH GOVERNMENT ON EXACT LENGTH OF REMOVABLE SECTION .
- 4.129 BOTTLE FILLING STATION, SEE SPECIFICATIONS.
- 4.130 CUT SOLID SURFACE COUNTERTOP FOR TRANSACTION WINDOW SHELF.
- 4.211 PREFINISHED METAL DUCT ENCLOSURE.

- 1. GUARD STATION 101 BUILDING SLAB ELEVATION 100'-00" = CIVIL 912.72.
- 2. GUARD SHACK 105 SLAB ELEVATION 100'-00" = CIVIL 912.74.
- 3. GUARD SHACK 106 SLAB ELEVATION 100'-00" = CIVIL 912.01.
- 4. CVIF SUPPORT SHACK 107 SLAB ELEVATION 100'-00" = CIVIL 908.99.
- 3. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE
- ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- 4. ALL DIMENSIONS ARE FROM FACE OF WALL (I.E. GYPSUM WALLBOARD), UNLESS NOTED OTHERWISE.
- 5. INSTALL WOOD BLOCKING REINFORCEMENT AT ALL CASEWORK, WALL MOUNTED ACCESSORIES AND GOVERNMENT SUPPLIED EQUIPMENT. SEE A-202 FOR ACCESSORY MOUNTING HEIGHTS.

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AN AIR NATIONAL RUCT MAIN BASE

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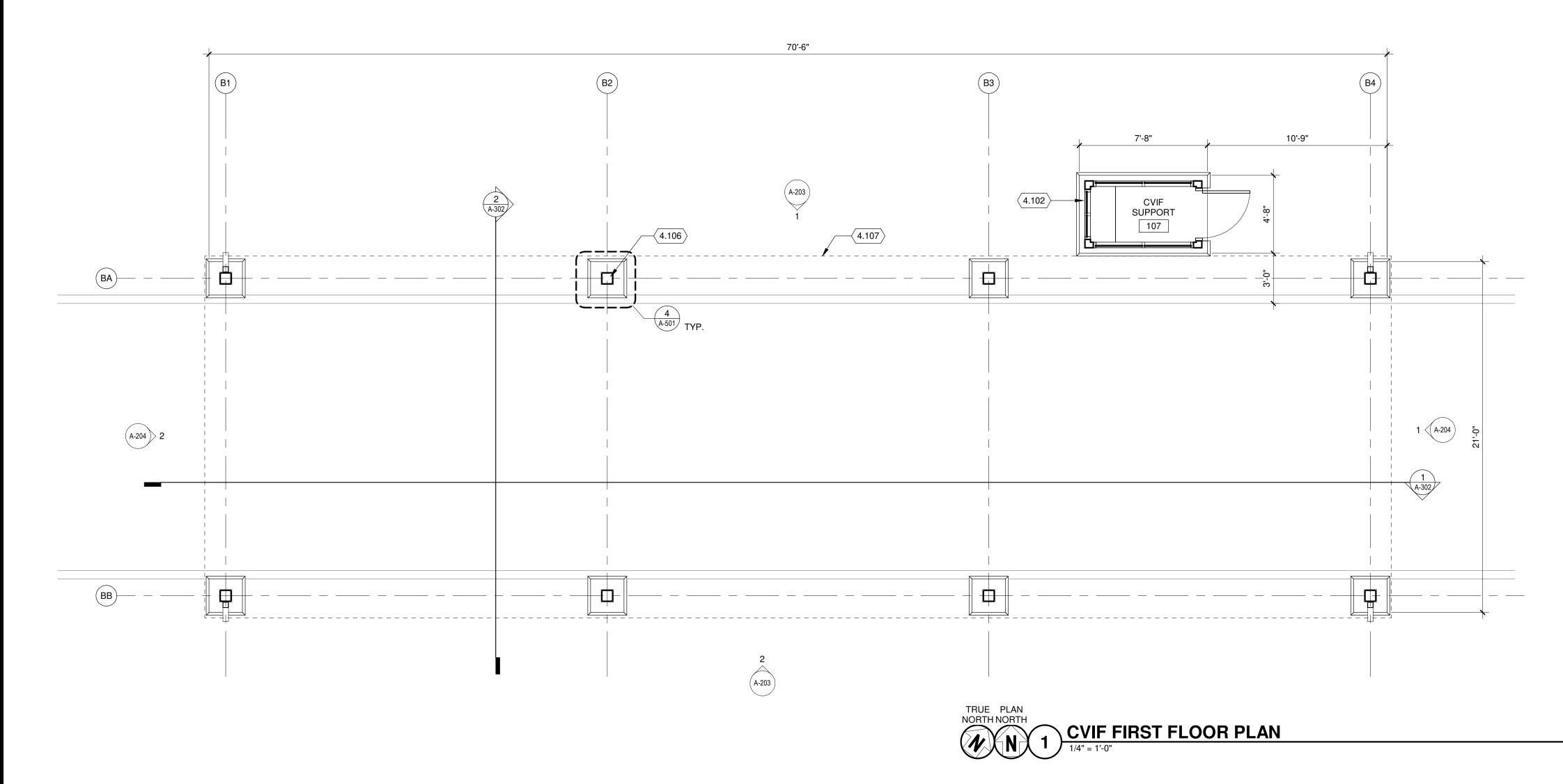
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ANG Project No.: MBMV099170 3141900-113782.01 February 17, 2021

DESIGNED BY: PJC DRAWN BY: CHECKED BY: GAM

DO NOT SCALE DRAWINGS SHEET CONTENTS GATEHOUSE FIRST

FLOOR PLAN



ARCHITECTURAL PLAN GENERAL NOTES:

- 1. GUARD STATION 101 BUILDING SLAB ELEVATION 100'-00" = CIVIL 912.72.
- 2. GUARD SHACK 105 SLAB ELEVATION 100'-00" = CIVIL 912.74.
- 3. GUARD SHACK 106 SLAB ELEVATION 100'-00" = CIVIL 912.01.

SEE A-202 FOR ACCESSORY MOUNTING HEIGHTS.

- 4. CVIF SUPPORT SHACK 107 SLAB ELEVATION 100'-00" = CIVIL 908.99.
- 3. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE
- ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION. 4. ALL DIMENSIONS ARE FROM FACE OF WALL (I.E. GYPSUM WALLBOARD), UNLESS NOTED OTHERWISE.
- 5. INSTALL WOOD BLOCKING REINFORCEMENT AT ALL CASEWORK, WALL MOUNTED ACCESSORIES AND GOVERNMENT SUPPLIED EQUIPMENT.

KEYED NOTES

- 4.102 PREFABRICATED GUARD SHACK, SEE SPECIFICATIONS.
- 4.106 PAINTED CANOPY COLUMN, TYPICAL. SEE STRUCTURAL.
- 4.107 EDGE OF CANOPY ABOVE.

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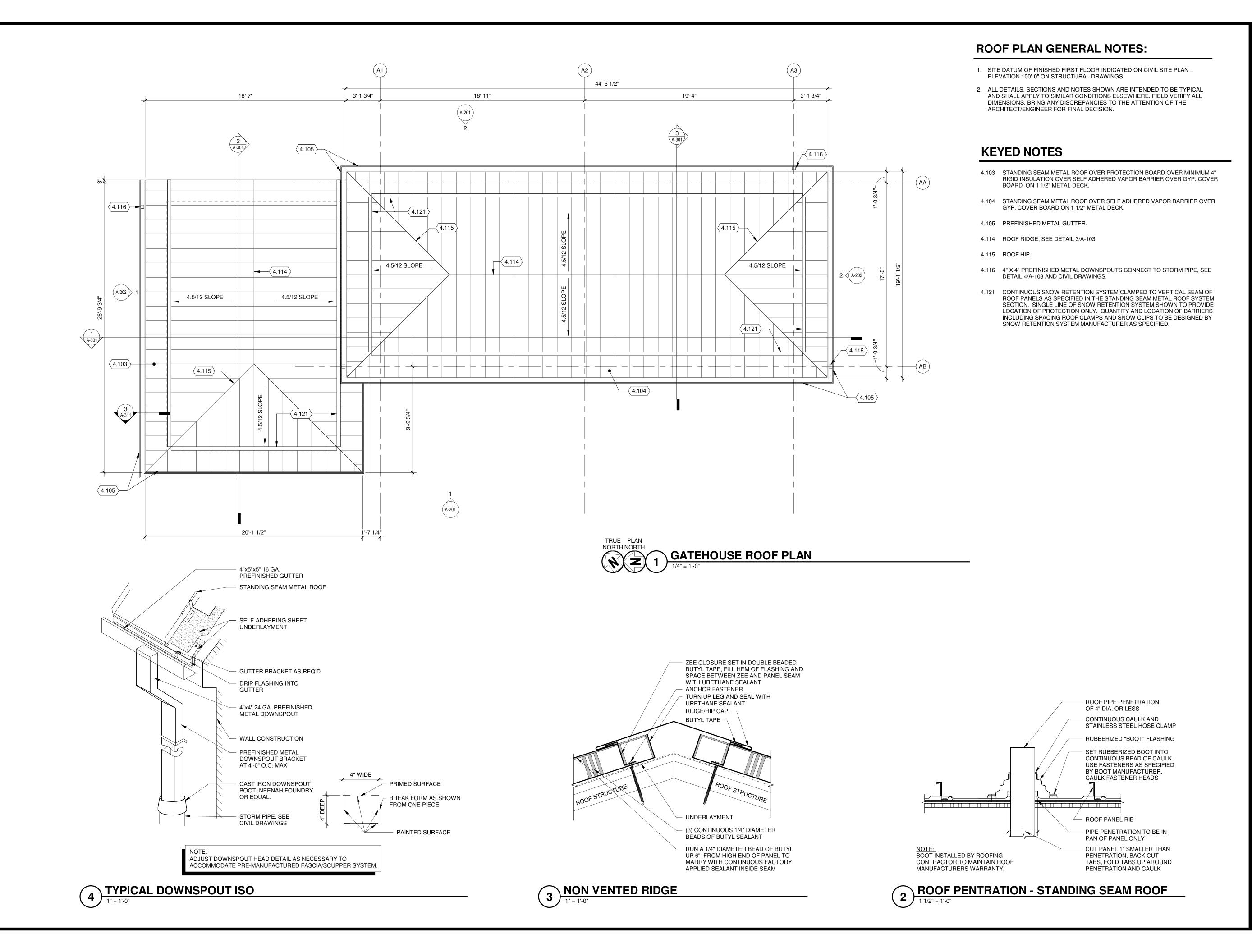
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SHEET CONTENTS

CVIF FIRST FLOOR PLAN



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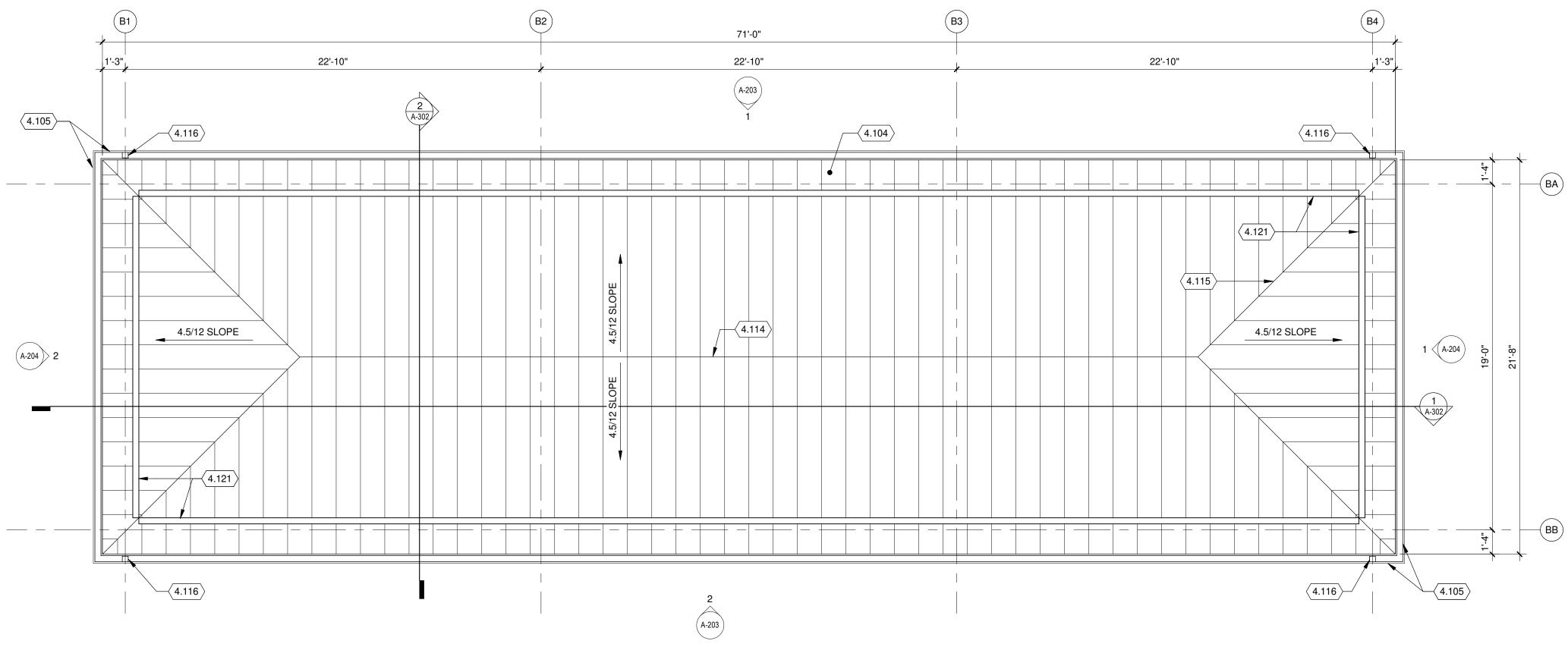
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ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 DATE: February 17, 2021 DESIGNED BY: PJC

DRAWN BY: CHECKED BY: GAM DO NOT SCALE DRAWINGS

SHEET CONTENTS GATEHOUSE ROOF PLAN

SHEET NO.:



ROOF PLAN GENERAL NOTES:

- 1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
- 2. ALL DETAILS, SECTIONS AND NOTES SHOWN ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.

KEYED NOTES

- 4.104 STANDING SEAM METAL ROOF OVER SELF ADHERED VAPOR BARRIER OVER GYP. COVER BOARD ON 1 1/2" METAL DECK.
- 4.105 PREFINISHED METAL GUTTER.
- 4.114 ROOF RIDGE, SEE DETAIL 3/A-103.
- 4.115 ROOF HIP.
- 4.116 4" X 4" PREFINISHED METAL DOWNSPOUTS CONNECT TO STORM PIPE, SEE DETAIL 4/A-103 AND CIVIL DRAWINGS.
- 4.121 CONTINUOUS SNOW RETENTION SYSTEM CLAMPED TO VERTICAL SEAM OF ROOF PANELS AS SPECIFIED IN THE STANDING SEAM METAL ROOF SYSTEM SECTION. SINGLE LINE OF SNOW RETENTION SYSTEM SHOWN TO PROVIDE LOCATION OF PROTECTION ONLY. QUANTITY AND LOCATION OF BARRIERS INCLUDING SPACING ROOF CLAMPS AND SNOW CLIPS TO BE DESIGNED BY SNOW RETENTION SYSTEM MANUFACTURER AS SPECIFIED.

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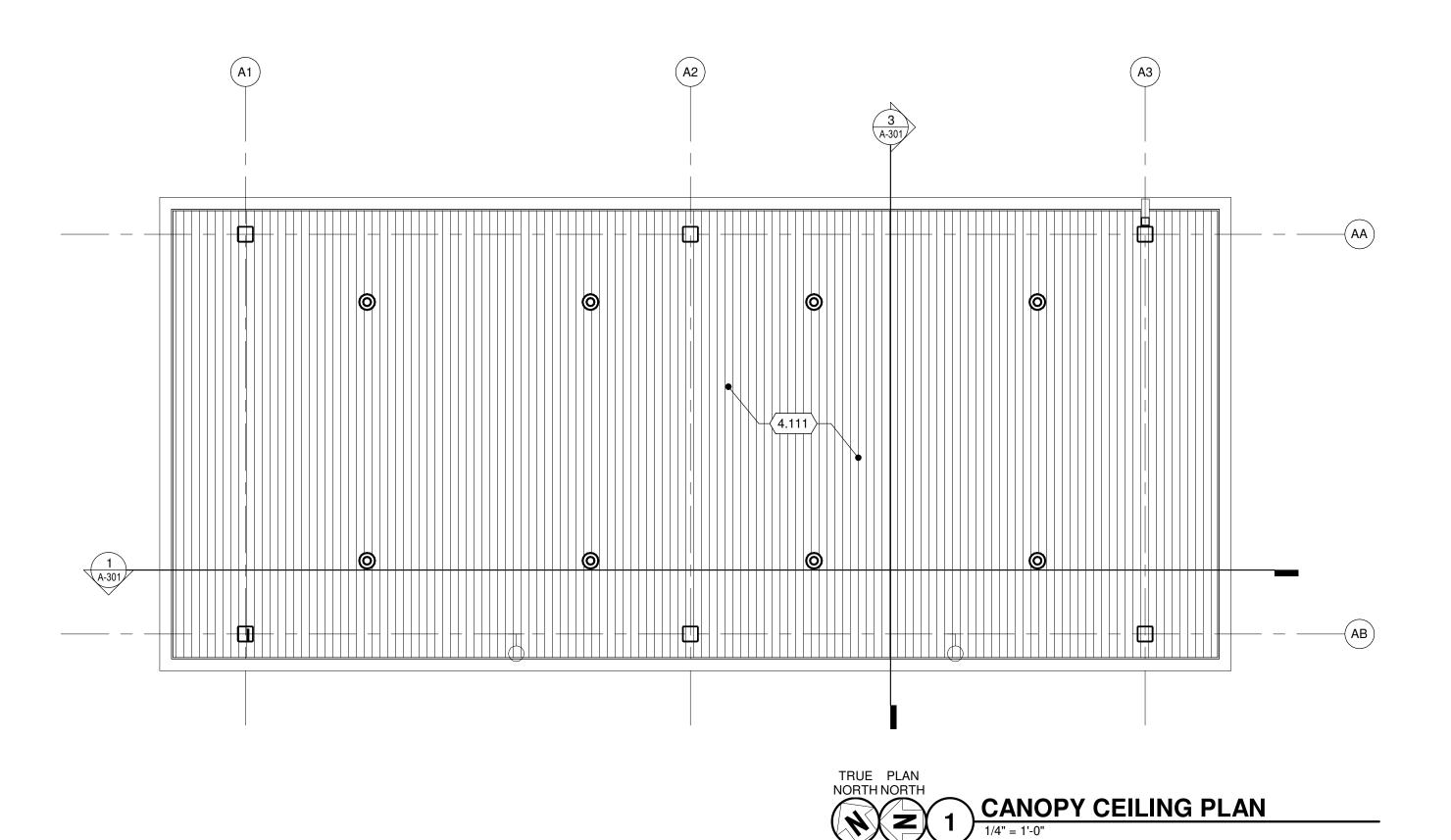
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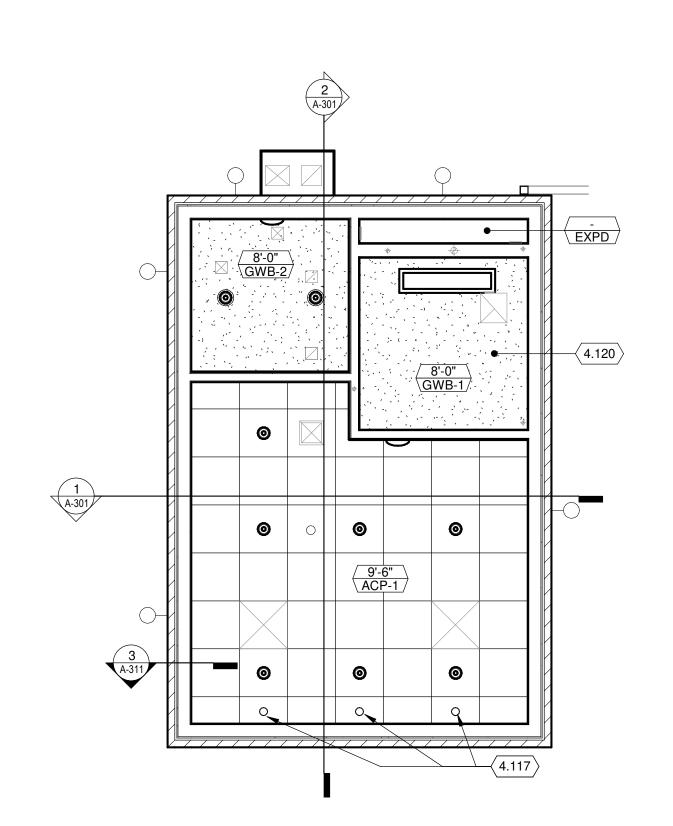
M&H NO.: 3141900-113782.01 DATE: February 17, 2021

DESIGNED BY: PJC DRAWN BY: MAB CHECKED BY: GAM

SHEET CONTENTS CVIF ROOF PLAN







CANOPY CEILING PLAN



CEILING PLAN GENERAL NOTES:

- 1. SEE ROOM FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES AND ROOM HEIGHTS.
- 2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT FOR FINAL DECISION.
- 3. ALL RECESSED LIGHTS, SPRINKLERS, FIRE DETECTION EQUIPMENT, OCCUPANCY SENSORS, ETC. SHALL BE CENTERED IN THE TILES UNLESS NOTED OTHERWISE.
- 4. CENTER ALL CEILING GRIDS IN SPACE UNLESS NOTED OTHERWISE.
- 5. ALL METAL LINEAR DIFFUSERS SHALL BE PAINTED TO MATCH SURROUNDING WALL OR CEILING SURFACE.

CEILING LEGEND:

SEE ELECTRICAL FOR EXACT FIXTURE MODEL

2' x 2' SUSPENDED CEILING GRID

GYPSUM BOARD CEILING/ PORTLAND CEMENT PLASTER (PAINTED)

LIGHT FIXTURE (RECESSED MOUNTED)

LIGHT FIXTURE (RECESSED MOUNTED 4" WIDE OR

LIGHT FIXTURE (RECESSED MOUNTED)

O 6" O 8" LIGHT FIXTURE (RECESSED CAN)

LIGHT FIXTURE (SURFACE MOUNTED)

LIGHT FIXTURE (SUSPENDED)

LIGHT FIXTURE (SURFACE MOUNTED)

LIGHT FIXTURE (SUSPENDED)

CEILING RECEPTACLES

CEILING OCCUPANCY SENSOR

CEILING FIRE ALARM DEVICES

CEILING MASS NOTIFICATION DEVICE

CEILING SPEAKER

CEILING SECURITY STRODE

CEILING CAMERA

OCCUPANCY SENSOR

SPRINKLER HEADS

SUPPLY AIR DIFFUSER

RETURN AIR DIFFUSER / EXHAUST GRILL

EXHAUST FAN

KEYED NOTES

4.111 PREFINISHED METAL ROOF SOFFIT.

4.117 MONITOR BRACKET MOUNTED TO WALL SUPPLIED BY GOVERNMENT. CONFIRM SIZE AND LOCATION WITH GOVERNMENT. CONTRACTOR TO PROVIDE BLOCKING ABOVE ALL WINDOWS FOR BRACKET MOUNTS.

4.120 PROVIDE SOUND BATT. INSULATION BETWEEN JOISTS ABOVE GYP. BD. CEILING.

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GUARD

AN AIR NATIONAL RUCT MAIN BASE

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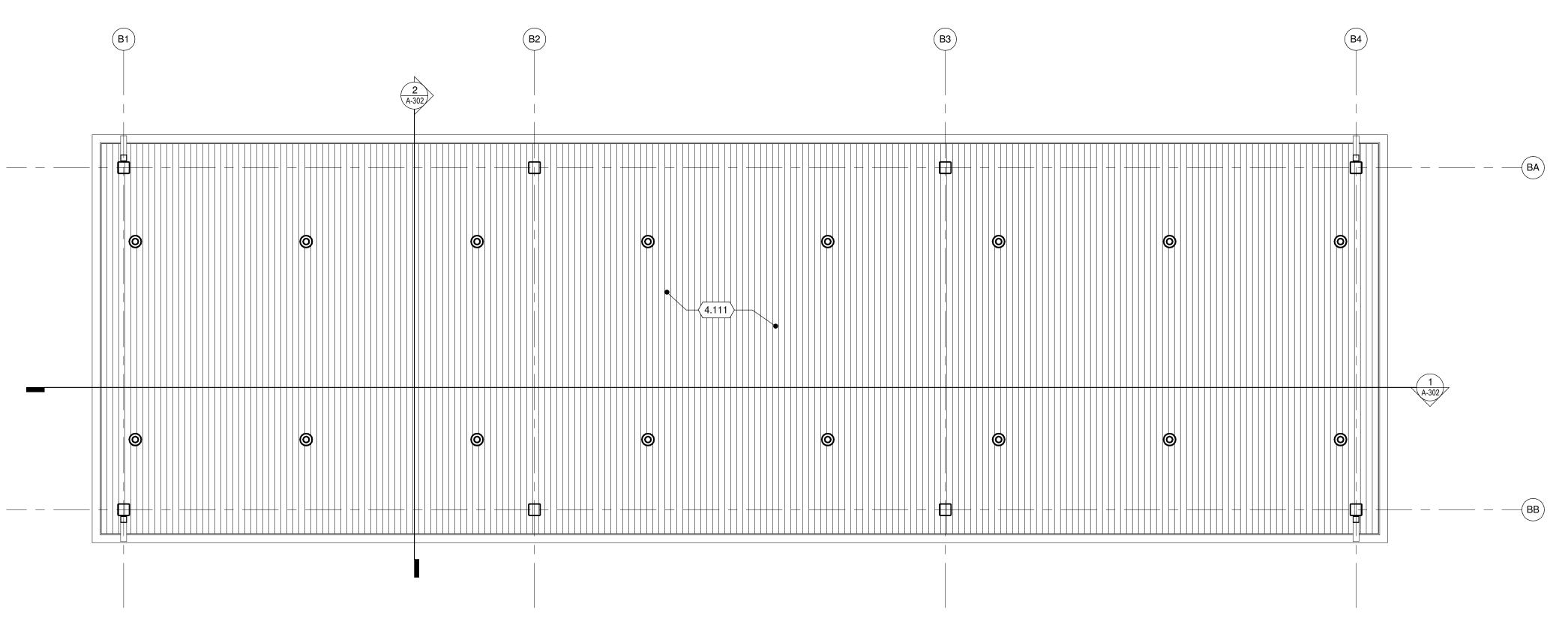
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February 17, 2021 DESIGNED BY: PJC DRAWN BY: CHECKED BY: GAM

DO NOT SCALE DRAWINGS SHEET CONTENTS GATEHOUSE FIRST FLOOR CEILING

PLAN



TRUE PLAN NORTH NORTH

CVIF CEILING PLAN

CEILING PLAN GENERAL NOTES:

- SEE ROOM FINISH SCHEDULE FOR FLOOR, WALL AND CEILING FINISHES AND ROOM HEIGHTS.
- 2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT FOR FINAL DECISION.
- 3. ALL RECESSED LIGHTS, SPRINKLERS, FIRE DETECTION EQUIPMENT, OCCUPANCY SENSORS, ETC. SHALL BE CENTERED IN THE TILES UNLESS NOTED OTHERWISE.
- 4. CENTER ALL CEILING GRIDS IN SPACE UNLESS NOTED OTHERWISE.
- 5. ALL METAL LINEAR DIFFUSERS SHALL BE PAINTED TO MATCH SURROUNDING WALL OR CEILING SURFACE.

KEYED NOTES

4.111 PREFINISHED METAL ROOF SOFFIT.

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GUARD ENTRANCE

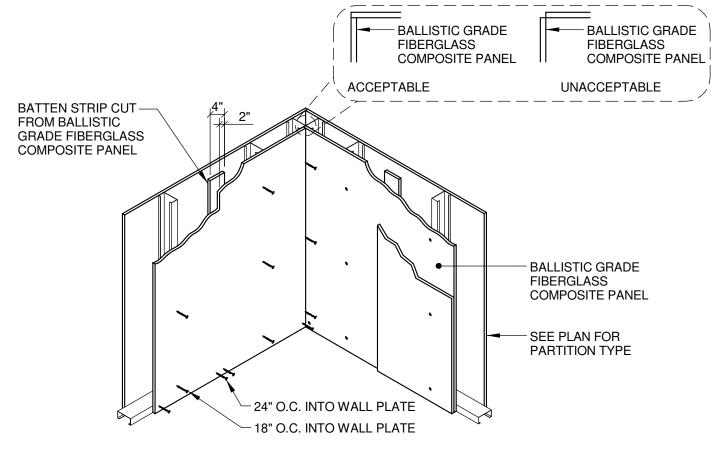
M&H NO.: 3141900-113782.01 DATE: February 17, 2021 DESIGNED BY: PJC

DRAWN BY: MAB CHECKED BY: GAM

SHEET CONTENTS

CVIF FIRST FLOOR

CEILING PLAN



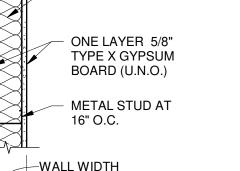
(BALLISTIC GRADE FIBERGLASS COMPOSITE PANELS SHOULD BE INSTALLED WITH FULL LOAD RESTING SECURELY AGAINST SLAB. ANCHOR TO WALL PLATE AND WALL STRICTURE SHOWN)

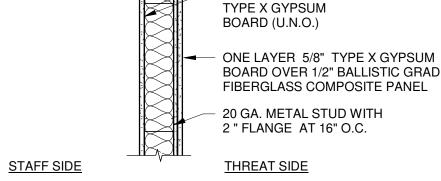
BALLISTIC PANEL JOINT

1/2" = 1'-0"

INSULATION ONE LAYER 5/8" TYPE X GYPSUM BOARD (U.N.O.) METAL STUD AT 16" O.C. -WALL WIDTH

"SA" SERIES





NOTES

"BC" SERIES

PTN STUD WALL

TYPE WIDTH WIDTH

BC3 | 3 5/8" | 5 3/8" | UL 752 LEVEL III

	STUD WIDTH	WALL WIDTH	NOTES	
SA3	3 5/8"	4 7/8"		
SA6	6"	7 1/4"		

PARTIT	ION T	YPES

NO SCALE

A. PARTITIONS SHALL BE TYPE "SA3" UNLESS OTHERWISE NOTED. INSULATION B. ALL ELEMENTS OF ACOUSTIC PARTITIONS SHALL EXTEND TO ROOF OR ONE LAYER 5/8" FLOOR DECK ABOVE AND ALL JOINTS AND PENETRATIONS OF ACOUSTIC RATED PARTITIONS SHALL BE FILLED AND SEALED. C. REFER TO "INTERIOR PARTITION TYPE MODIFIERS" FOR SYMBOLS USED TO IDENTIFY ADDITIONAL REQUIREMENTS OR MODIFICATIONS TO BASIC

BOARD OVER 1/2" BALLISTIC GRADE FIBERGLASS COMPOSITE PANEL

> E. PARTITION REQUIREMENTS SHOWN ARE CONSIDERED MINIMUM STANDARDS. WHERE CONDITIONS OF THE WORK CAUSE PARTITION(S) TO EXCEED LIMITS RECOMMENDED BY MANUFACTURER, REINFORCE

REFER TO PRODUCT MANUFACTURERS' SPECIFICATIONS AND

D. PARTITION TYPES DESCRIBE GENERAL REQUIREMENTS FOR PARTITIONS.

REQUIREMENTS FOR APPLICABLE TESTING AGENCIES FOR SPECIFICS OF

PARTITION GENERAL NOTES:

PARTITION TYPES.

PARTITION CONSTRUCTION.

F. PENETRATIONS IN RATED PARTITIONS AND CONNECTIONS OF THE PARTITIONS TO OTHER PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDED DETAILS AND IN COMPLIANCE WITH APPLICABLE TESTING AGENCY REQUIREMENTS.

G. WHERE A CLEAR DIMENSION OR OPENING IS REQUIRED OR NOTED, MEASURE DIMENSION TO FACE OF PARTITION FINISH.

H. REFER TO STRUCTURAL DRAWINGS FOR EXTENT AND DESCRIPTION OF INTERIOR STRUCTURAL WALLS NOT IDENTIFIED BY PARTITION TYPES.

I. INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT/MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT DESCRIBED IN THE DOCUMENTS.

J. FIRE RATED PARTITIONS: GA AND UL TEST NUMBERS MAY VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED.

K. PROVIDE 5/8" TYPE "X" GYPSUM BOARD (UNLESS NOTED OTHERWISE)

L. PROVIDE TYPE "X" GYPSUM BOARD AT FIRE RATED PARTITIONS.

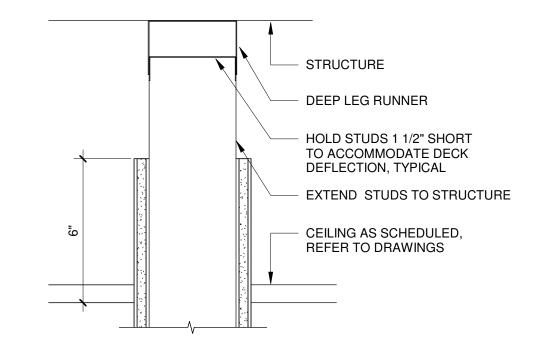
M. INSTALLATION OF GYPSUM BOARD, BACKER BOARD AND BASE BOARD SHALL CONFORM TO REQUIREMENTS FOR FIRE RATINGS AND ACOUSTICAL RATINGS.

N. TYPICAL FLOOR PLAN DIMENSIONS OF PARTITIONS ARE TO THE NOMINAL FINISH FACE OF GYPSUM BOARD UNLESS NOTED TO THE CENTERLINE OF THE PARTITION.

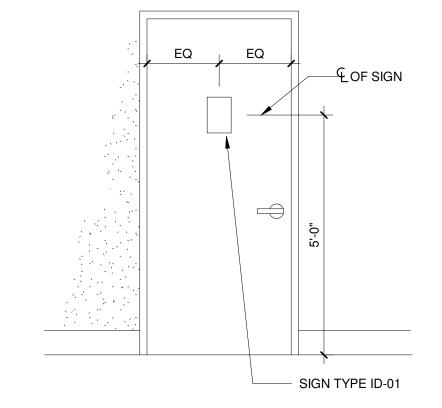
O. WHERE PARTITIONS AND/OR FURRING MEET, MAINTAIN A FLUSH SURFACE ON THE SIDE WHERE THE FINISH IS STRAIGHT OR CONTINUOUS UNLESS OTHERWISE NOTED.

1/2" MOUNT ON DOOR AT 60" MAX, A.F.F. ABS PANEL 1/32" RAISED SYMBOL 5/8" ADA MATTE BLACK HELVETICA BOLD UPPER CASE TEXT RESTROOM **GRADE 2 BRAILLE ID-01**

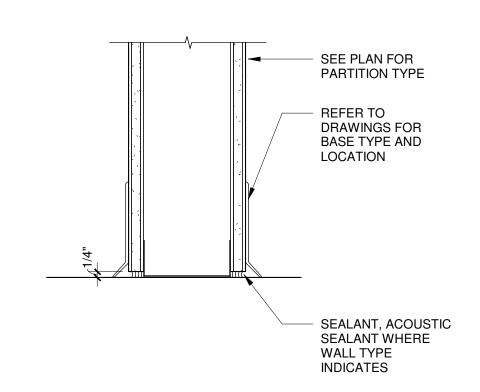








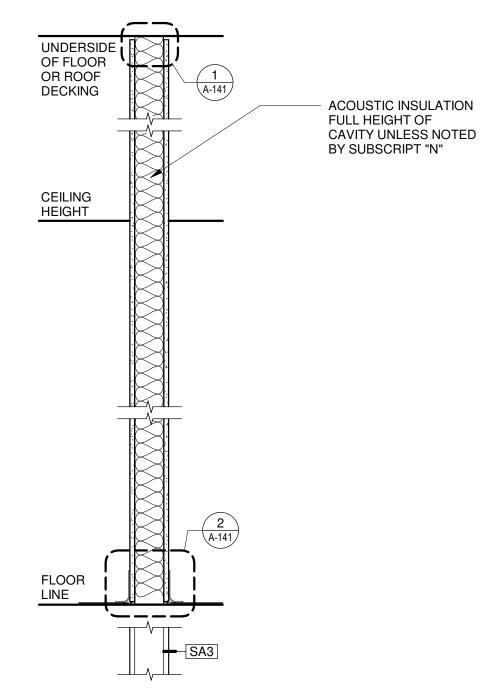




GYP WALL BASE

3" = 1'-0"

PARTITION TYPE SYMBOL AND SUBSCRIPT DEFINITIONS:



STRUCTURE

NO SUBSCRIPT EXTEND TOTAL PARTITION TO

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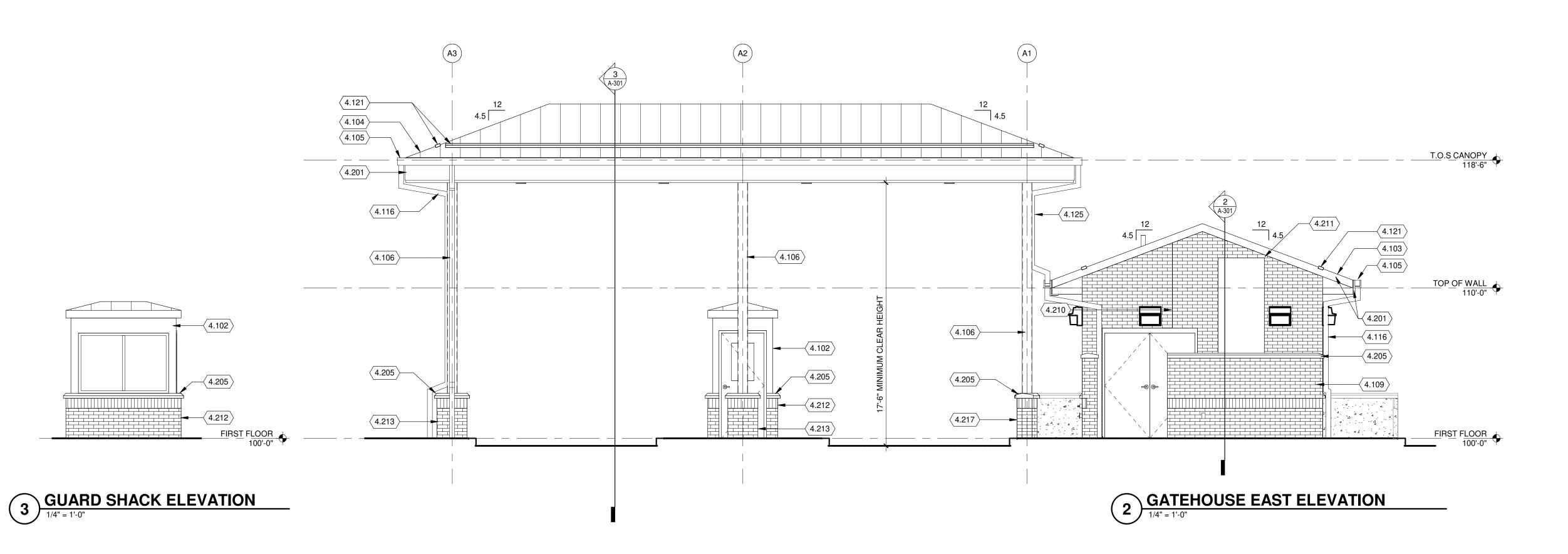
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SHEET CONTENTS **INTERIOR PARTITION TYPES**

→ GATEHOUSE WEST ELEVATION

KEYED NOTES

- 4.102 PREFABRICATED GUARD SHACK, SEE SPECIFICATIONS.
- 4.103 STANDING SEAM METAL ROOF OVER PROTECTION BOARD OVER MINIMUM 4" RIGID INSULATION OVER SELF ADHERED VAPOR BARRIER OVER GYP. COVER BOARD ON 1 1/2" METAL DECK.
- 4.104 STANDING SEAM METAL ROOF OVER SELF ADHERED VAPOR BARRIER OVER GYP. COVER BOARD ON 1 1/2" METAL DECK.
- 4.105 PREFINISHED METAL GUTTER.
- 4.106 PAINTED CANOPY COLUMN, TYPICAL. SEE STRUCTURAL.
- 4.109 4" NOMINAL BRICK VENEER ON 8" CMU BACK UP WITH 4" HIGH PRECAST CAP, GROUT CORES SOLID, TOP COURSE OF WALL TO BE A BOND BEAM.
- 4.116 4" X 4" PREFINISHED METAL DOWNSPOUTS CONNECT TO STORM PIPE, SEE DETAIL 4/A-103 AND CIVIL DRAWINGS.
- 4.121 CONTINUOUS SNOW RETENTION SYSTEM CLAMPED TO VERTICAL SEAM OF ROOF PANELS AS SPECIFIED IN THE STANDING SEAM METAL ROOF SYSTEM SECTION. SINGLE LINE OF SNOW RETENTION SYSTEM SHOWN TO PROVIDE LOCATION OF PROTECTION ONLY. QUANTITY AND LOCATION OF BARRIERS INCLUDING SPACING ROOF CLAMPS AND SNOW CLIPS TO BE DESIGNED BY SNOW RETENTION SYSTEM MANUFACTURER AS SPECIFIED.
- 4.125 4" X 4" PREFINISHED METAL DOWNSPOUT DISCHARGING ONTO ROOF GUTTER
- 4.201 PREFINISHED METAL FASCIA.
- 4.204 4" NOMINAL BRICK VENEER OVER 1" AIRSPACE OVER AIR BARRIER OVER 5/8" EXTERIOR GRADE GYP SHEATHING ON 6" METAL STUD.
- 4.205 PRECAST WALL CAP.
- 4.206 ALUMINUM WINDOW.
- 4.210 MASONRY CONTROL JOINT.
- 4.211 PREFINISHED METAL DUCT ENCLOSURE.
- 4.212 4" NOMINAL BRICK VENEER, SEE SPECIFICATION AND DETAIL 2/A-501.
- 4.213 4" NOMINAL BRICK VENEER ON 4" CMU BACK UP, SEE SPECIFICATION AND DETAIL 4/A-501.
- 4.217 4" NOMINAL BRICK VENEER ON CONCRETE FOUNDATION WALL.



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GUARD ENTRAN(

BATTLE CREE BATTLE CREE

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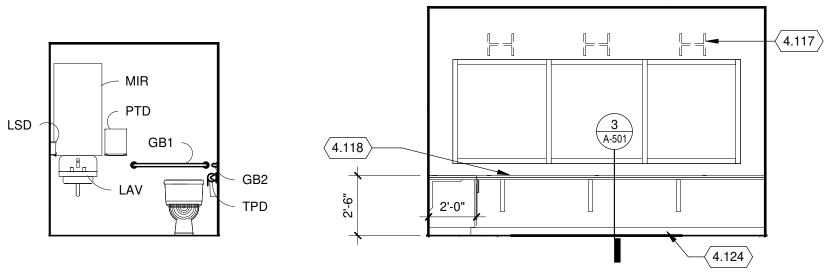
SHEET CONTENTS GATEHOUSE **EXTERIOR** ELEVATIONS



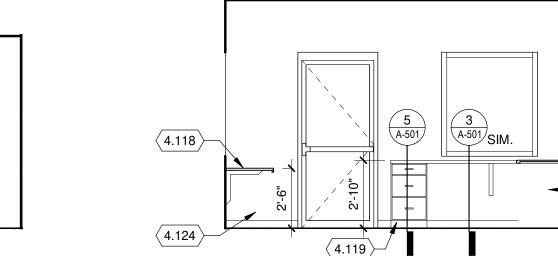
- 1. PROVIDE BLOCKING IN WALLS FOR ALL WALL MOUNTED ACCESSORIES.
- 2. ALL EXPOSED SURFACES OF MILLWORK TO BE P. LAMINATE ON 3/4" PART BD., TYPICAL, UNLESS NOTED OTHERWISE
- 3. PROVIDE WATER RESISTANT GYPSUM WALLBOARD AT ALL WET AREAS AND/OR AREAS TO RECEIVE WALL TILE.
- 4. SEE "ARCHITECTURAL FINISH LIST" IN SPECIFICATIONS FOR MATERIAL
- 5. SEE DETAIL 10/A-201 FOR ALL TOILET ACCESSORY MOUNTING HEIGHTS.

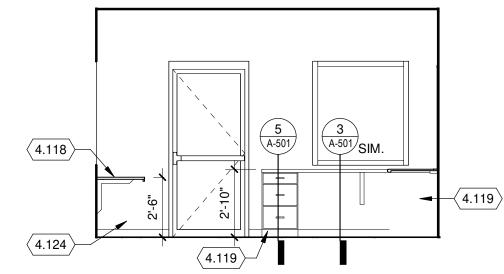
TOILET ACCESSORY KEY

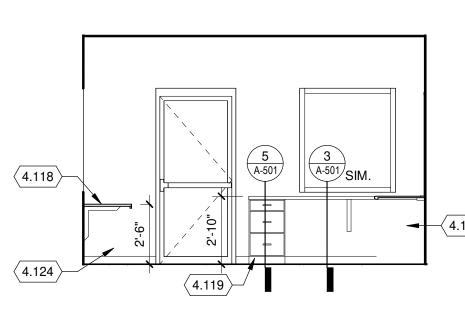
- GB1 = GRAB BAR
- GB2 = GRAB BAR
- LAV = WALL MOUNTED LAVATORY
- LSD = LIQUID SOAP DISPENSER
- PTD = PAPER TOWEL DISPENSÉR
- SND = SANITARY NAPKIN DISPOSAL
- MIR = MIRROR (2'-0"w. x 3'-10"h.) ALUMINUM FRAMED TPD = TOILET PAPER DISPENSER

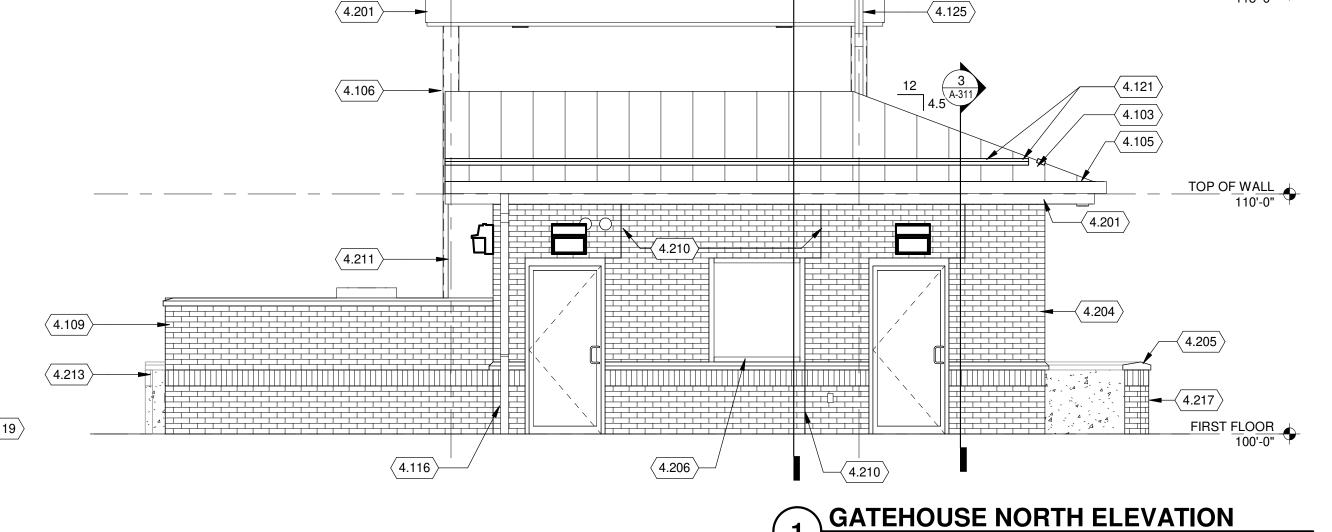


3 INTERIOR ELEVATION
1/4" = 1'-0" INTERIOR ELEVATION









INTERIOR ELEVATION

MIR

LSD 🤝

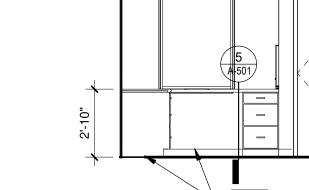
LAV —

INTERIOR ELEVATION



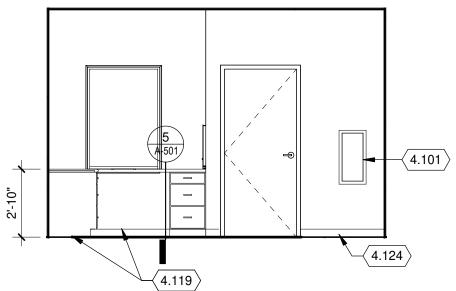


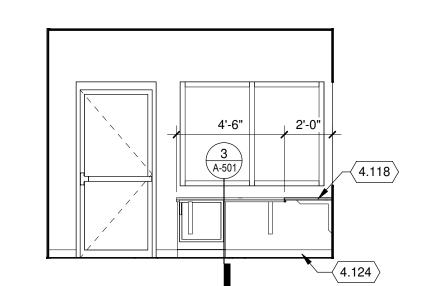




5 INTERIOR ELEVATION

1/4" = 1'-0"





6 INTERIOR ELEVATION

1/4" = 1'-0"

T.O.S CANOPY 118'-6" $\langle 4.116 \rangle$ **√ 4.201**) \prec 4.116 angle $\langle 4.121 \rangle$ **4.103** > $-\langle 4.106 \rangle$ 4.105 TOP OF WALL 110'-0" 〈 4.201 〉— $-\langle$ 4.109 \rangle $\langle 4.206 \rangle$ \langle 4.205 angle $\langle 4.205 \rangle$ leftarrowraket4.217angle⟨4.217⟩— FIRST FLOOR 100'-0" \langle 4.213 angle

GATEHOUSE SOUTH ELEVATION

SEE SPECIFICATIONS FOR MODEL NUMBERS FIRE MIRROR PAPER **EXTINGUISHER** TOWEL CABINET LIQUID SOAP SANITARY DISP. MAX\ REQD (GB2) (FEC) DISPENSER WALL (PTD) NAPKIN (LSD) MOUNTED DISPOSAL REQD 🖈 LAVATORY (SND) MIN MIN (GB1) (LAV) FLOOR -(2) TOILET PAPER MOUNT FLOOR LINE HOLDER DBL ROLL (TPD) SANITARY NAPKIN DISPOSAL (SND)

ACCESSORY MOUNTING HEIGHTS

KEYED NOTES

- 4.101 SEMI-RECESSED FIRE EXTINGUISHER CABINET.
- 4.103 STANDING SEAM METAL ROOF OVER PROTECTION BOARD OVER MINIMUM 4" RIGID INSULATION OVER SELF ADHERED VAPOR BARRIER OVER GYP. COVER BOARD ON 1 1/2" METAL DECK.
- 4.104 STANDING SEAM METAL ROOF OVER SELF ADHERED VAPOR BARRIER OVER GYP. COVER BOARD ON 1 1/2" METAL DECK.
- 4.105 PREFINISHED METAL GUTTER.
- 4.106 PAINTED CANOPY COLUMN, TYPICAL. SEE STRUCTURAL.
- 4.109 4" NOMINAL BRICK VENEER ON 8" CMU BACK UP WITH 4" HIGH PRECAST CAP, GROUT CORES SOLID, TOP COURSE OF WALL TO BE A BOND BEAM.
- 4.116 4" X 4" PREFINISHED METAL DOWNSPOUTS CONNECT TO STORM PIPE, SEE DETAIL 4/A-103 AND CIVIL DRAWINGS.
- 4.117 MONITOR BRACKET MOUNTED TO WALL SUPPLIED BY GOVERNMENT. CONFIRM SIZE AND LOCATION WITH GOVERNMENT. CONTRACTOR TO PROVIDE BLOCKING ABOVE ALL WINDOWS FOR BRACKET MOUNTS.

KEYED NOTES

 $\langle 4.121 \rangle$

 $\langle 4.104 \rangle$

⟨ 4.105 ⟩-

- 4.118 SOLID SURFACE WORK SURFACE.
- 4.119 PLASTIC LAMINATE CABINETRY WITH SOLID SURFACE COUNTERTOP.
- 4.121 CONTINUOUS SNOW RETENTION SYSTEM CLAMPED TO VERTICAL SEAM OF ROOF PANELS AS SPECIFIED IN THE STANDING SEAM METAL ROOF SYSTEM SECTION. SINGLE LINE OF SNOW RETENTION SYSTEM SHOWN TO PROVIDE LOCATION OF PROTECTION ONLY. QUANTITY AND LOCATION OF BARRIERS INCLUDING SPACING ROOF CLAMPS AND SNOW CLIPS TO BE DESIGNED BY SNOW RETENTION SYSTEM MANUFACTURER AS SPECIFIED.
- 4.124 RUBBER WALL BASE.
- 4.125 4" X 4" PREFINISHED METAL DOWNSPOUT DISCHARGING ONTO ROOF GUTTER BELOW.
- 4.201 PREFINISHED METAL FASCIA.
- 4.204 4" NOMINAL BRICK VENEER OVER 1" AIRSPACE OVER AIR BARRIER OVER 5/8" EXTERIOR GRADE GYP SHEATHING ON 6" METAL STUD.
- 4.205 PRECAST WALL CAP.

KEYED NOTES

4.206 ALUMINUM WINDOW.

DETAIL 4/A-501.

4.210 MASONRY CONTROL JOINT.

- 4.211 PREFINISHED METAL DUCT ENCLOSURE.
- 4.213 4" NOMINAL BRICK VENEER ON 4" CMU BACK UP, SEE SPECIFICATION AND

4.217 4" NOMINAL BRICK VENEER ON CONCRETE FOUNDATION WALL.

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T.O.S CANOPY



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GUARD

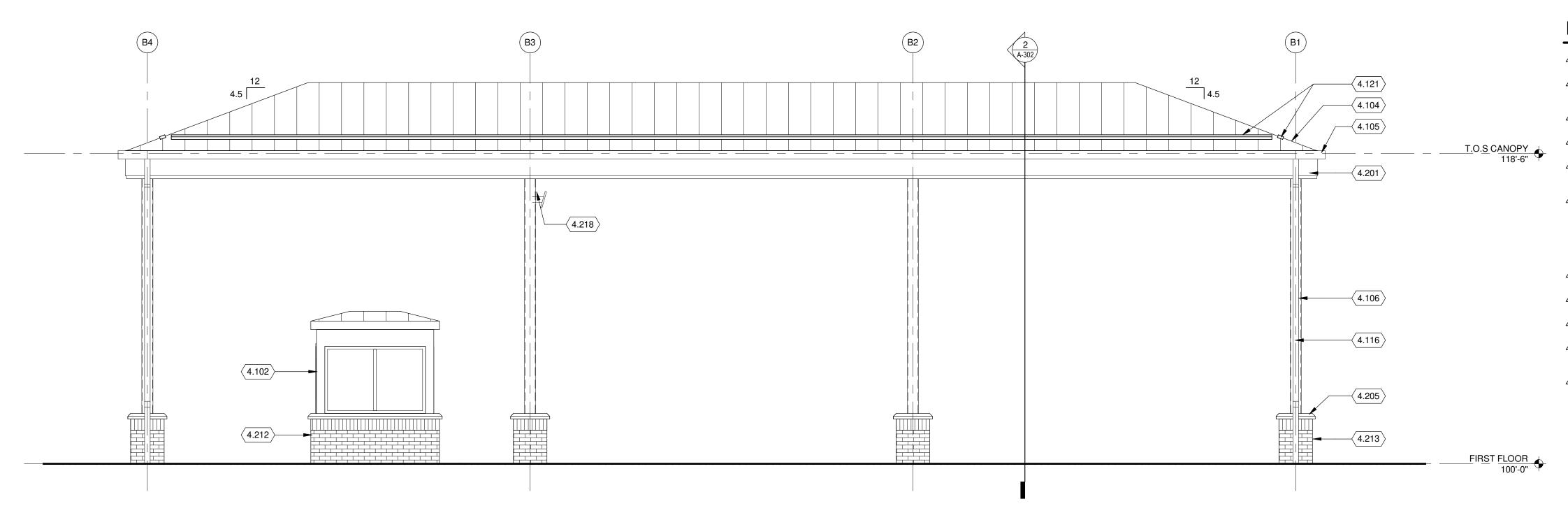
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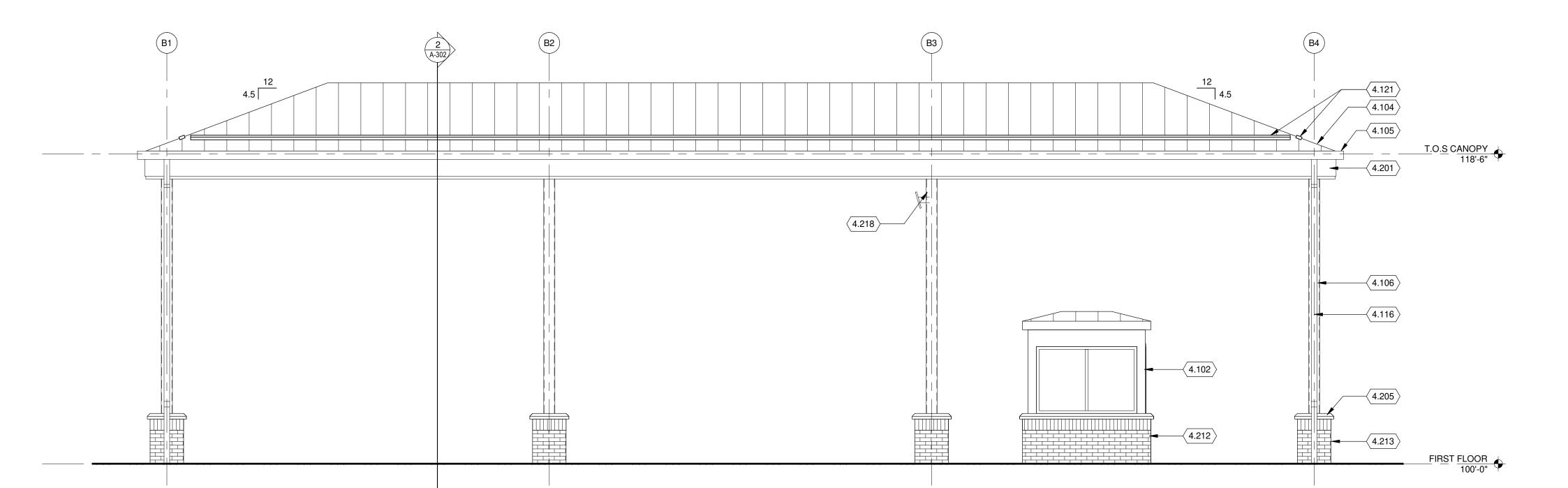
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SHEET CONTENTS **GATEHOUSE EXTERIOR ELEVATIONS**



\CVIF NORTH ELEVATION



2 CVIF SOUTH ELEVATION

1/4" = 1'-0"

KEYED NOTES

4.102 PREFABRICATED GUARD SHACK, SEE SPECIFICATIONS.

4.104 STANDING SEAM METAL ROOF OVER SELF ADHERED VAPOR BARRIER OVER GYP. COVER BOARD ON 1 1/2" METAL DECK.

4.105 PREFINISHED METAL GUTTER.

4.106 PAINTED CANOPY COLUMN, TYPICAL. SEE STRUCTURAL.

4.116 4" X 4" PREFINISHED METAL DOWNSPOUTS CONNECT TO STORM PIPE, SEE DETAIL 4/A-103 AND CIVIL DRAWINGS.

4.121 CONTINUOUS SNOW RETENTION SYSTEM CLAMPED TO VERTICAL SEAM OF ROOF PANELS AS SPECIFIED IN THE STANDING SEAM METAL ROOF SYSTEM SECTION. SINGLE LINE OF SNOW RETENTION SYSTEM SHOWN TO PROVIDE LOCATION OF PROTECTION ONLY. QUANTITY AND LOCATION OF BARRIERS INCLUDING SPACING ROOF CLAMPS AND SNOW CLIPS TO BE DESIGNED BY SNOW RETENTION SYSTEM MANUFACTURER AS SPECIFIED.

4.201 PREFINISHED METAL FASCIA.

4.205 PRECAST WALL CAP.

4.212 4" NOMINAL BRICK VENEER, SEE SPECIFICATION AND DETAIL 2/A-501.

4.213 4" NOMINAL BRICK VENEER ON 4" CMU BACK UP, SEE SPECIFICATION AND DETAIL 4/A-501.

4.218 BRACKET MOUNTED TO COLUMN FOR INSPECTION MIRROR.

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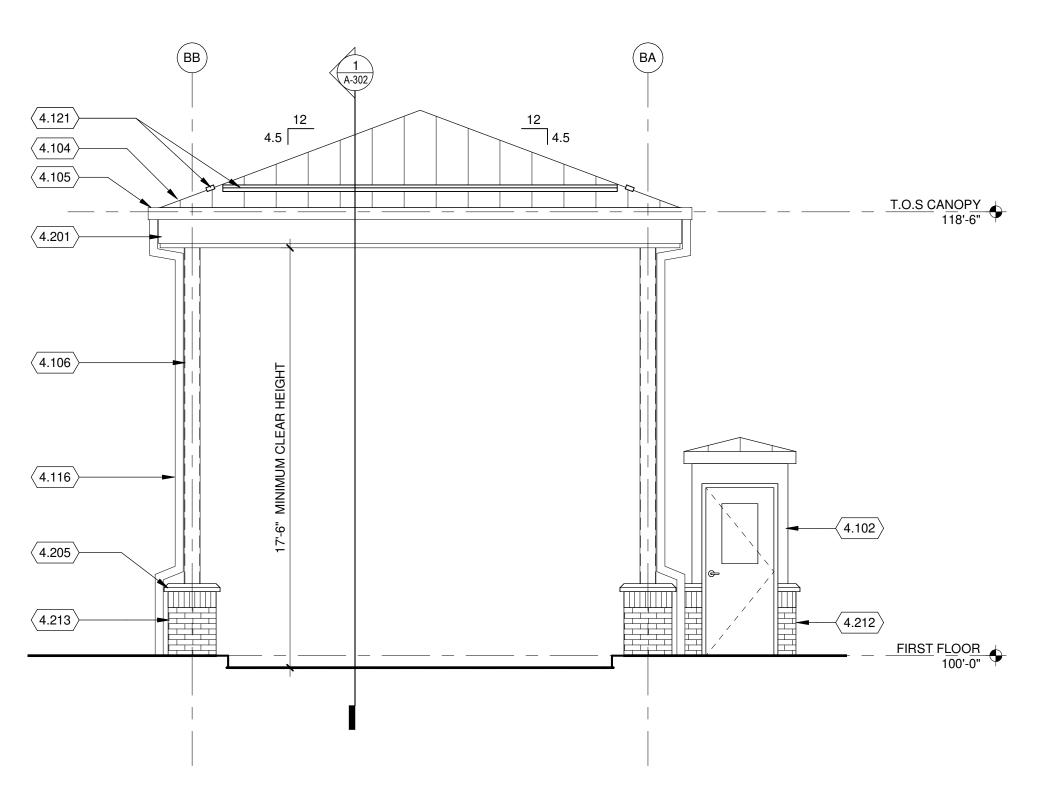
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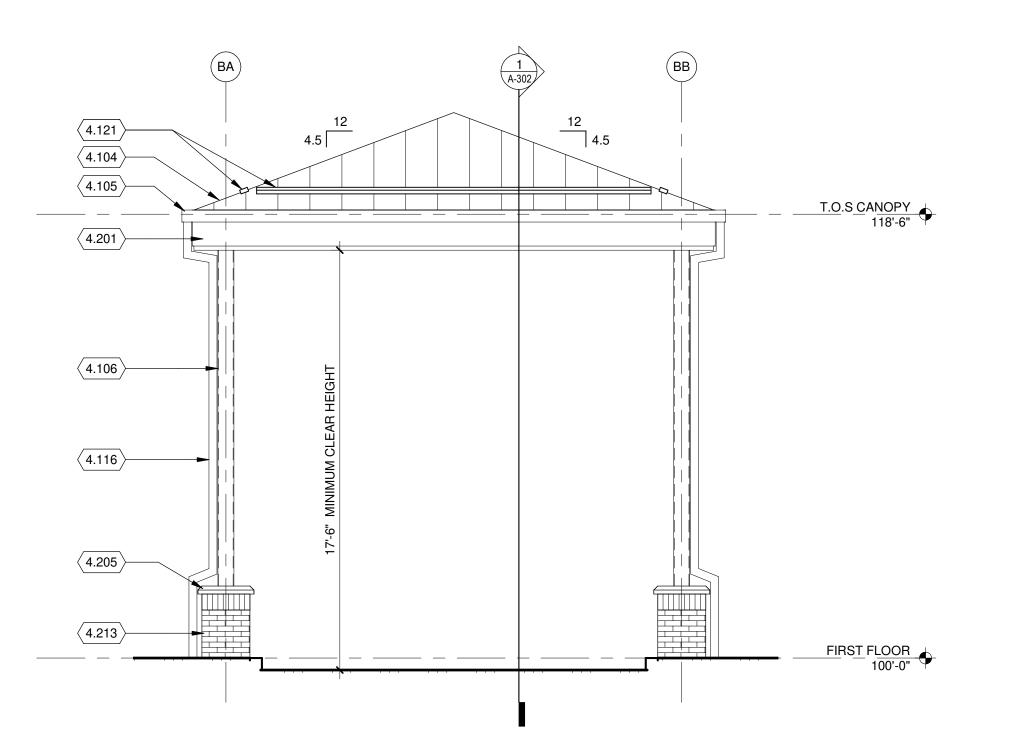
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SHEET CONTENTS CVIF EXTERIOR **ELEVATIONS**



CVIF EAST ELEVATION



2 CVIF WEST ELEVATION

1/4" = 1'-0"

KEYED NOTES

- 4.102 PREFABRICATED GUARD SHACK, SEE SPECIFICATIONS.
- 4.104 STANDING SEAM METAL ROOF OVER SELF ADHERED VAPOR BARRIER OVER GYP. COVER BOARD ON 1 1/2" METAL DECK.
- 4.105 PREFINISHED METAL GUTTER.
- 4.106 PAINTED CANOPY COLUMN, TYPICAL. SEE STRUCTURAL.
- 4.116 4" X 4" PREFINISHED METAL DOWNSPOUTS CONNECT TO STORM PIPE, SEE DETAIL 4/A-103 AND CIVIL DRAWINGS.
- 4.121 CONTINUOUS SNOW RETENTION SYSTEM CLAMPED TO VERTICAL SEAM OF ROOF PANELS AS SPECIFIED IN THE STANDING SEAM METAL ROOF SYSTEM SECTION. SINGLE LINE OF SNOW RETENTION SYSTEM SHOWN TO PROVIDE LOCATION OF PROTECTION ONLY. QUANTITY AND LOCATION OF BARRIERS INCLUDING SPACING ROOF CLAMPS AND SNOW CLIPS TO BE DESIGNED BY SNOW RETENTION SYSTEM MANUFACTURER AS SPECIFIED.
- 4.201 PREFINISHED METAL FASCIA.
- 4.205 PRECAST WALL CAP.
- 4.212 4" NOMINAL BRICK VENEER, SEE SPECIFICATION AND DETAIL 2/A-501.
- 4.213 4" NOMINAL BRICK VENEER ON 4" CMU BACK UP, SEE SPECIFICATION AND DETAIL 4/A-501.

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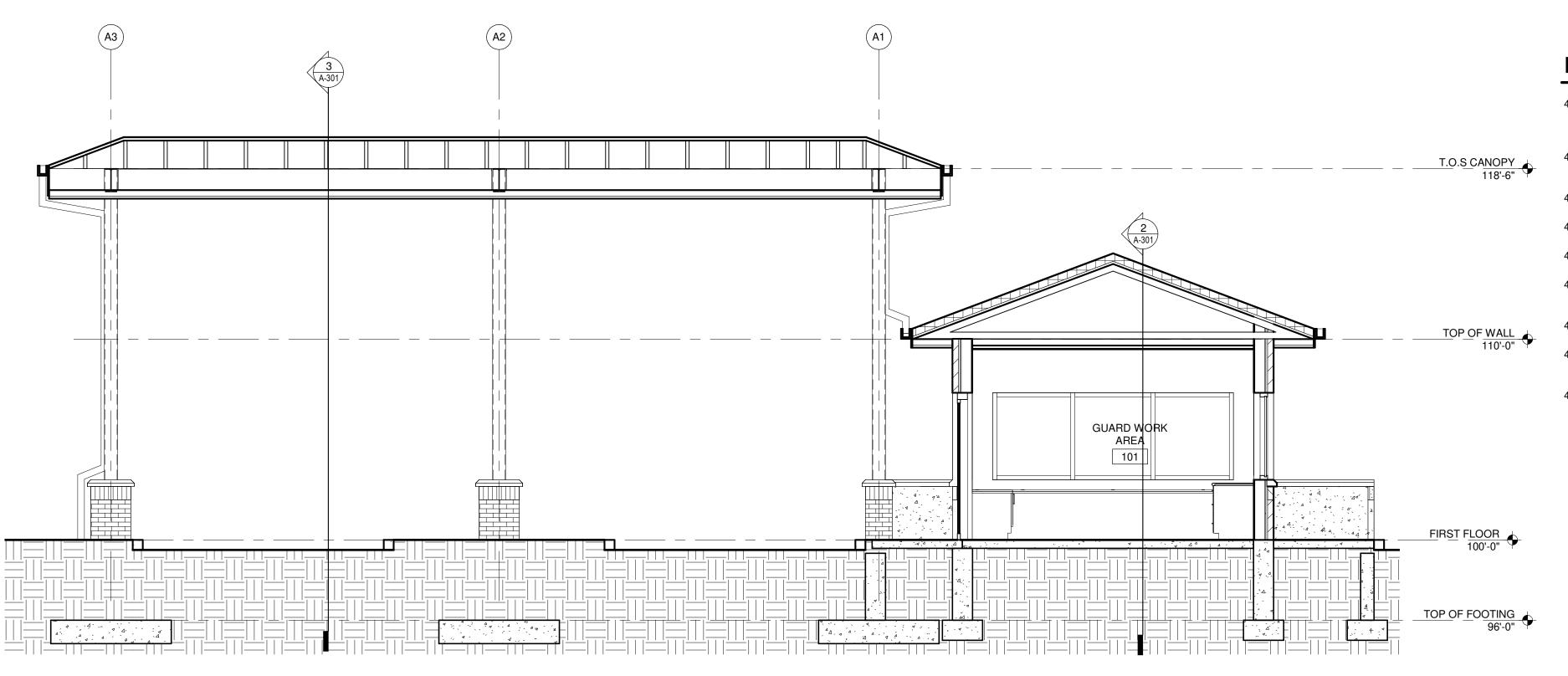
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BATTLE CREE BATTLE CREE

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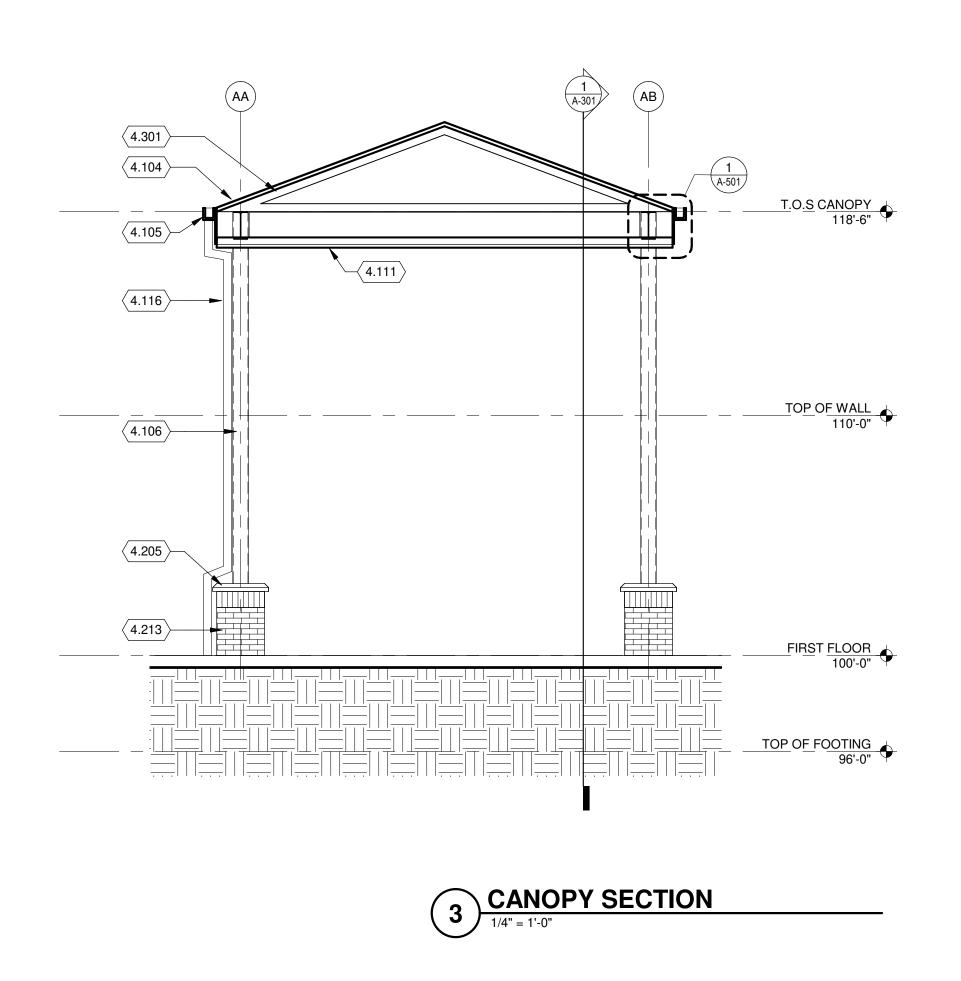
SHEET CONTENTS CVIF EXTERIOR **ELEVATIONS**

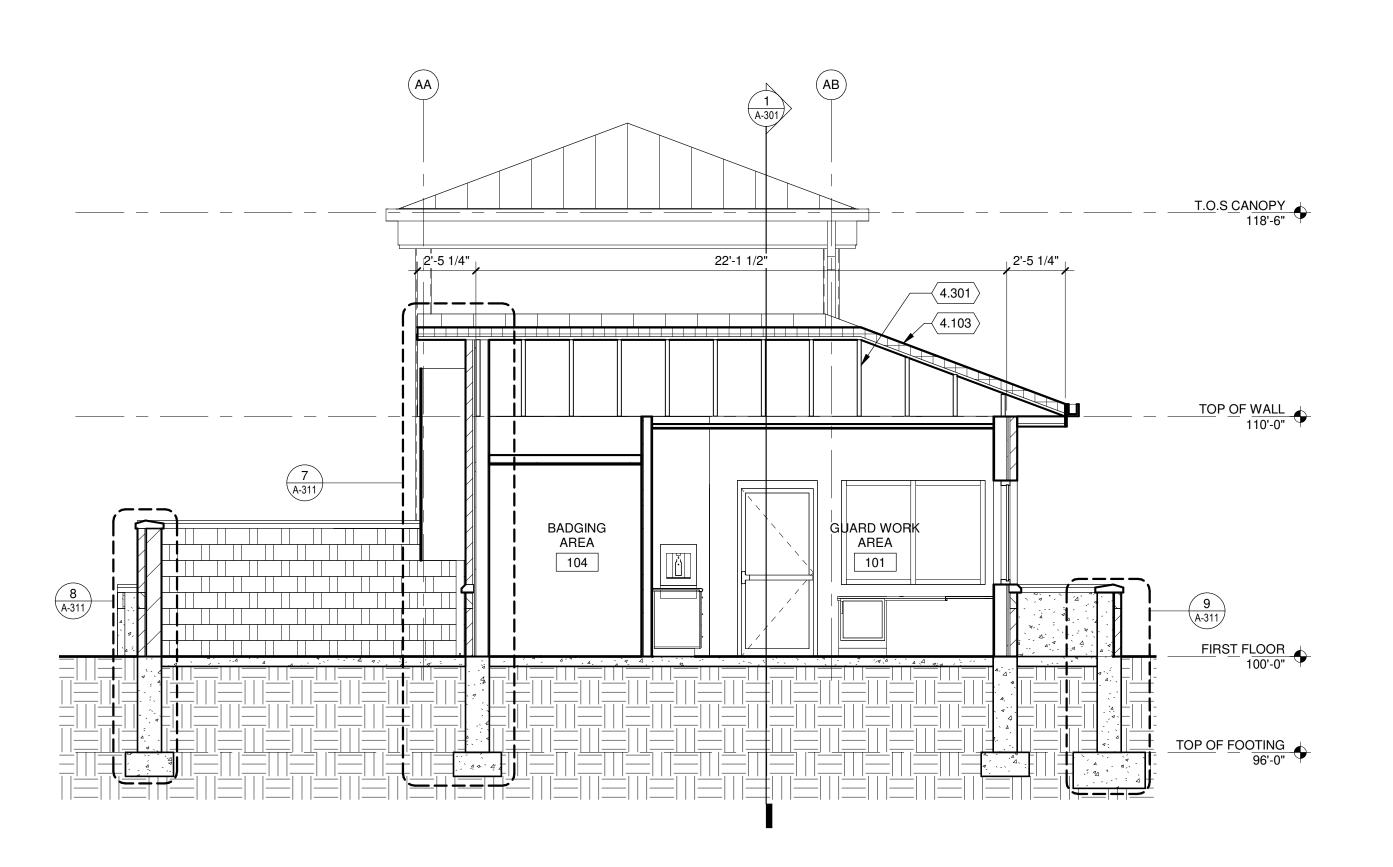


KEYED NOTES

- 4.103 STANDING SEAM METAL ROOF OVER PROTECTION BOARD OVER MINIMUM 4" RIGID INSULATION OVER SELF ADHERED VAPOR BARRIER OVER GYP. COVER BOARD ON 1 1/2" METAL DECK.
- 4.104 STANDING SEAM METAL ROOF OVER SELF ADHERED VAPOR BARRIER OVER GYP. COVER BOARD ON 1 1/2" METAL DECK.
- 4.105 PREFINISHED METAL GUTTER.
- 4.106 PAINTED CANOPY COLUMN, TYPICAL. SEE STRUCTURAL.
- 4.111 PREFINISHED METAL ROOF SOFFIT.
- 4.116 4" X 4" PREFINISHED METAL DOWNSPOUTS CONNECT TO STORM PIPE, SEE DETAIL 4/A-103 AND CIVIL DRAWINGS.
- 4.205 PRECAST WALL CAP.
- 4.213 4" NOMINAL BRICK VENEER ON 4" CMU BACK UP, SEE SPECIFICATION AND DETAIL 4/A-501.
- 4.301 ROOF FRAMING, SEE STRUCTURAL.

GATEHOUSE BUILDING SECTION





2 GATEHOUSE BUILDING SECTION

1/4" = 1'-0"

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BATTLE CREE BATTLE CREE

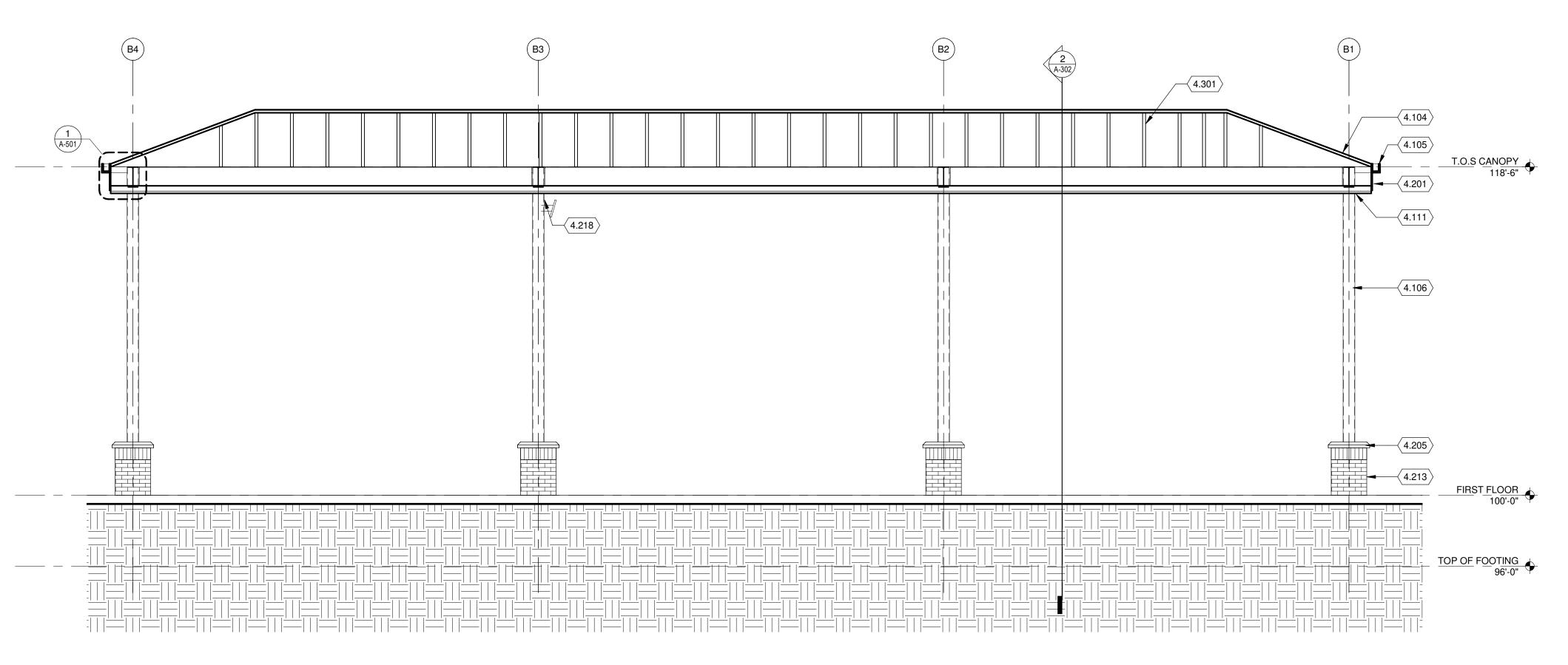
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SHEET CONTENTS

GATEHOUSE **BUILDING SECTIONS**

SHEET NO.:



CVIF BUILDING SECTION

1/4" = 1'-0"

4.301 4.104 <u> 4.105</u> T.O.S CANOPY 118'-6" 4.201 4.218 <u> 4.106</u> — 4.205 4.213 FIRST FLOOR 100'-0"

KEYED NOTES

- 4.104 STANDING SEAM METAL ROOF OVER SELF ADHERED VAPOR BARRIER OVER GYP. COVER BOARD ON 1 1/2" METAL DECK.
- 4.105 PREFINISHED METAL GUTTER.
- 4.106 PAINTED CANOPY COLUMN, TYPICAL. SEE STRUCTURAL.
- 4.111 PREFINISHED METAL ROOF SOFFIT.
- 4.201 PREFINISHED METAL FASCIA.
- 4.205 PRECAST WALL CAP.
- 4.213 4" NOMINAL BRICK VENEER ON 4" CMU BACK UP, SEE SPECIFICATION AND DETAIL 4/A-501.
- 4.218 BRACKET MOUNTED TO COLUMN FOR INSPECTION MIRROR.
- 4.301 ROOF FRAMING, SEE STRUCTURAL.

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GUARD

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BATTLE CREE BATTLE CREE

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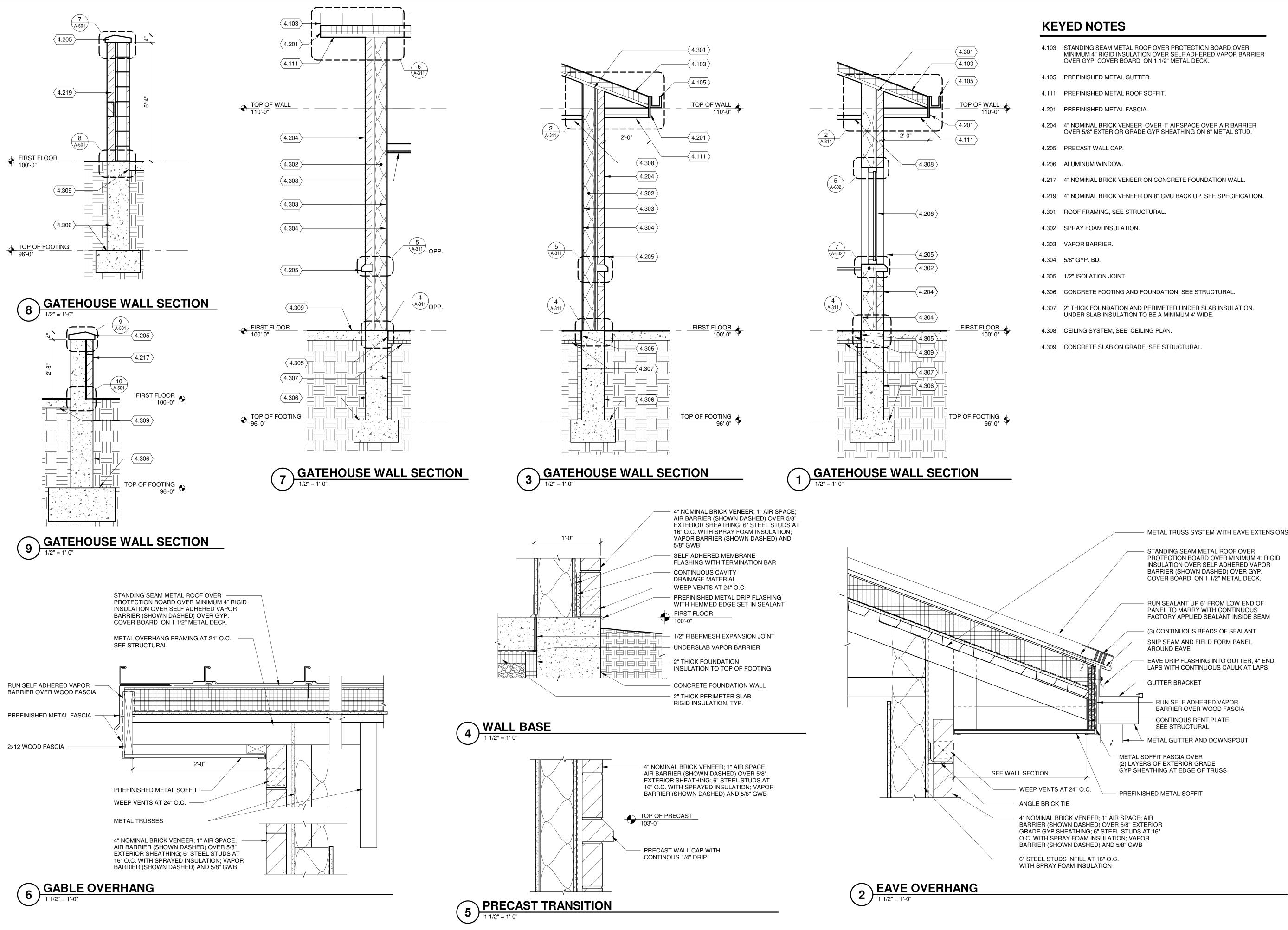
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SHEET CONTENTS CVIF BUILDING SECTIONS

A-302

2 CVIF BUILDING SECTION

1/4" = 1'-0"



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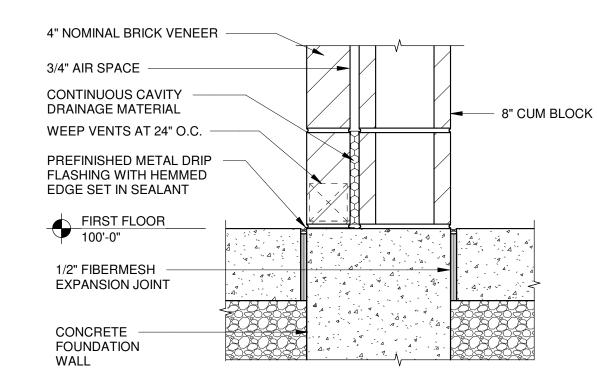
ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 February 17, 2021 DESIGNED BY: PJC

DRAWN BY: CHECKED BY: GAM DO NOT SCALE DRAWINGS

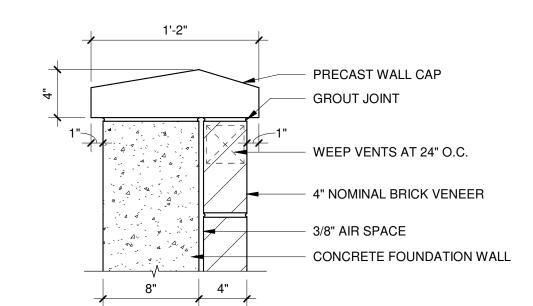
SHEET CONTENTS GATEHOUSE WALL SECTIONS

SHEET NO.:

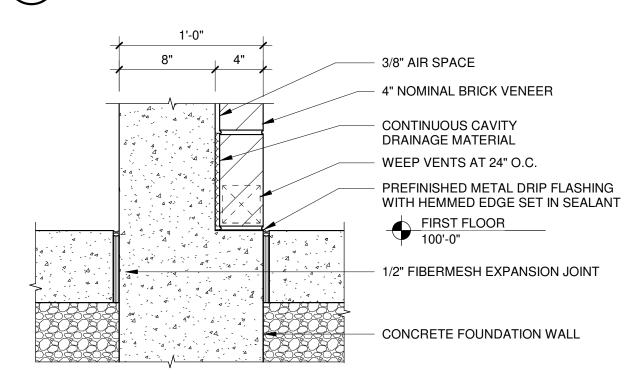
7 WALL CAP



WALL BASE



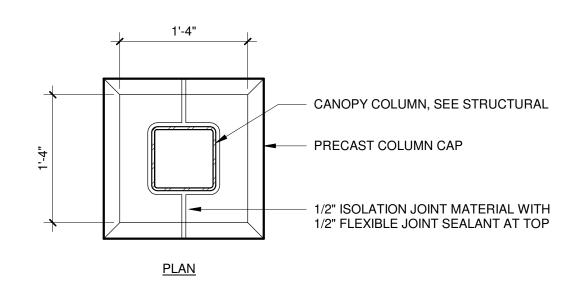
9 WALL CAP 1 1/2" = 1'-0"

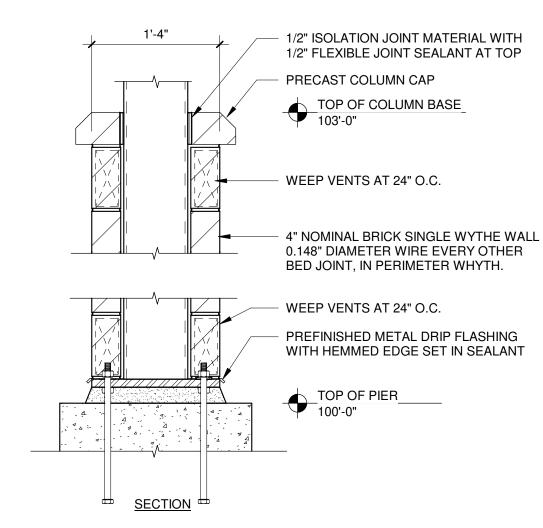


CONTINUOUS SEALANT AT WALL SOLID SURFACE MATERIAL OVER DIAMETER GROMMET FOR DRAWER CONSTRUCTION: FRONT TO BE PLASTIC LAMINATE ON 3/4" PARTICLE BOARD WITH 1/2" MELAMINE SIDES AND 1/4" MELAMINE BOTTOM DOOR/DRAWER PULLS, TYP. SEE SPECIFICATIONS 1/4" MELAMINE BACK, TYP. 3/4" MELAMINE BOARD BASE, EXPOSED FACES BANDED ∕🚤 2x WD. BLKG. 🖚 1'-9" BASE AS SCHEDULED

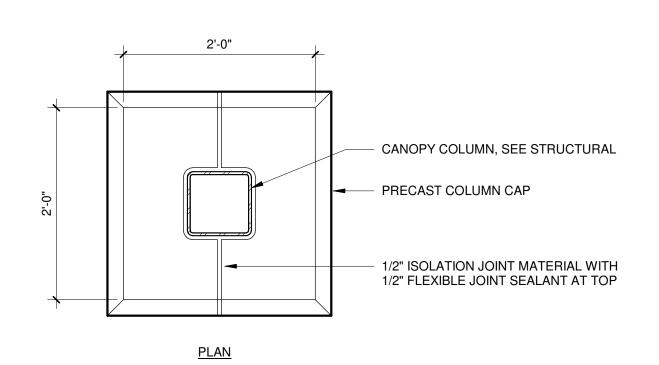
CABINETRY SECTION

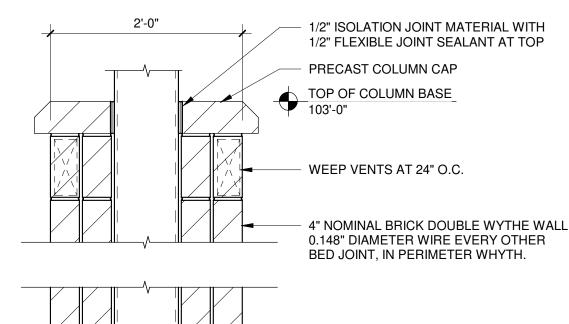
1/2" PLYWOOD COUNTERTOP WITH ROUNDED EDGE, SS-1 WITH 1 1/4" COMPUTER WIRING, ONE AT EACH STATION. VERIFY LOCATIONS WITH

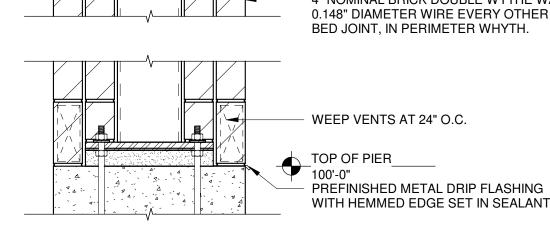




6 CANOPY COLUMN BASE

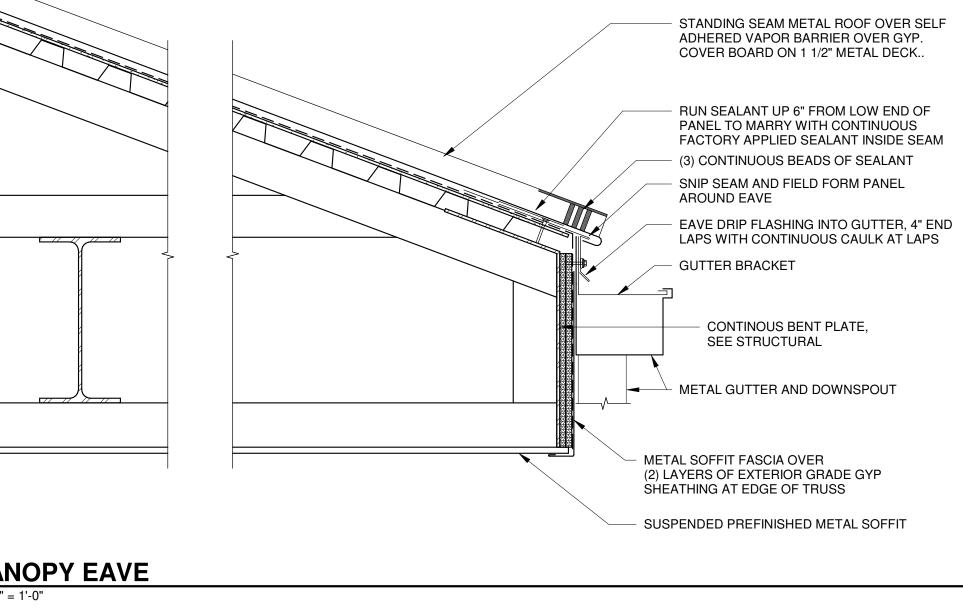




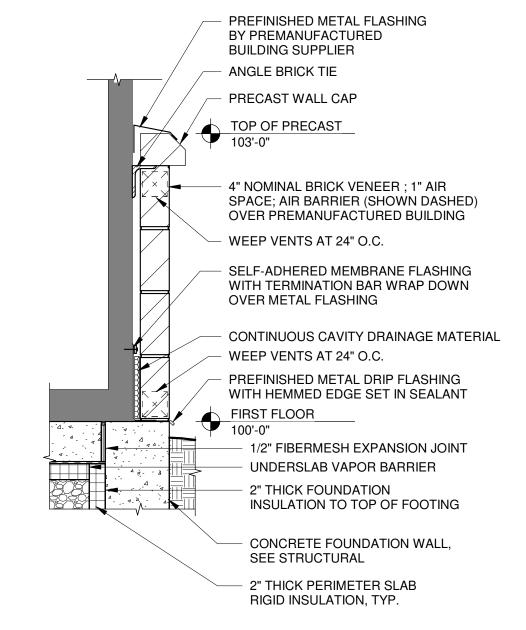


CANOPY COLUMN BASE

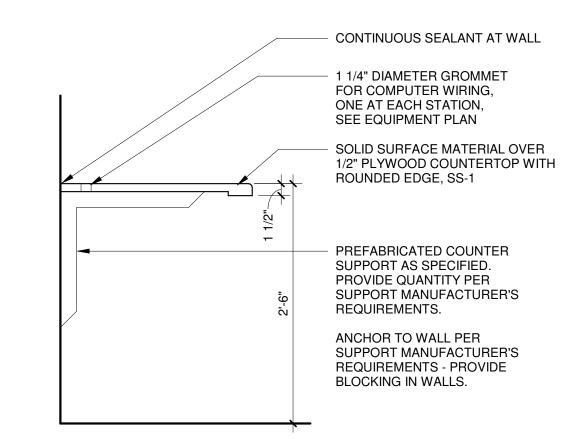
SECTION



CANOPY EAVE
1 1/2" = 1'-0"



BRICK VENEER AT GUARD BOOTH



WORK SURFACE

Mead

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E G A M

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CRE CRE

02/17/21 B3 FINAL

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 DATE: February 17, 2021 DESIGNED BY: PJC

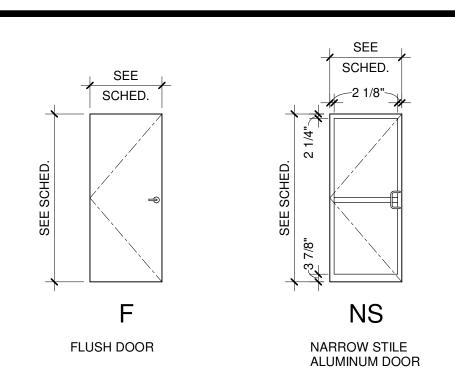
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SHEET CONTENTS **DETAILS**

SHEET NO.:

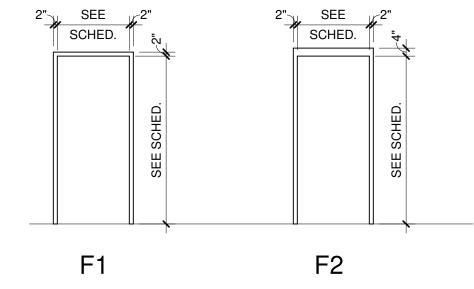
A-501

WALL BASE



DOOR TYPES

NO SCALE



							DOOF	AND HARD	WARE SCH	EDULE							
	DOOR							FRAME				MISCELLANEOUS					
DOOR		LEAF SIZE				GLAZING			DETAILS				HDWR				
NUMBER	QTY.	WIDTH	HEIGHT	TYPE	MAT'L	TYPE	FINISH	TYPE	MAT'L	HEAD	JAMB	OTHER	FINISH	LABEL	SET	LINTEL	REMARKS
101A	(1)	3'-0"	7'-0"	NS	AL	GL-1	AL	F2	AL	1/A-601	2/A-601	3/A-601	AL	-	1.0		
101B	(1)	3'-0"	7'-0"	NS	AL	GL-1	AL	F2	AL	1/A-601	2/A-601	3/A-601	AL	-	1.0		
102A	(1)	3'-0"	7'-0"	F	HM	-	PT-2	F1	HM	6/A-601	7/A-601	-	PT-2	-	3.0		
103A	(2)	3'-0"	7'-0"	F	HM	-	PT-2	F2	HM	4/A-601	5/A-601	3/A-601	PT-2	-	2.0		
104A	(1)	3'-0"	7'-0"	NS	AL	GL-1	AL	F2	AL	1/A-601	2/A-601	3/A-601	AL	-	1.0		

FINISH	LABEL	SEI	LINIEL	REMARKS	
AL	-	1.0			Mead & Hunt, Inc.
AL	-	1.0			2440 Deming Way
PT-2	-	3.0			Middleton, WI 53562
PT-2	-	2.0			phone: 608-273-6380
AL	-	1.0			meadhunt.com
					* * * * * *

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GUARD

M M

E K K CRE CRE BATTLE BATTLE

02/17/21 B3 FINAL

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 DATE: February 17, 2021 DESIGNED BY: PJC

CHECKED BY: GAM DO NOT SCALE DRAWINGS SHEET CONTENTS DOOR SCHEDULE

AND DETAILS

SHEET NO.:

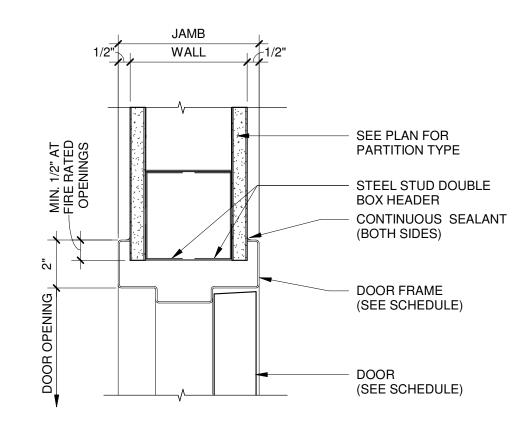
DRAWN BY:

A-601

DOOR/FRAME MATERIALS AL = ALUMINUMHM = HOLLOW METAL

FRAME TYPES

NO SCALE



2" DOOR OPENING

(SEE SCHEDULE)

DOOR FRAME

(SEE SCHEDULE)

JAMB ANCHORS

SEE PLAN FOR PARTITION TYPE

CONTINUOUS SEALANT

(3 PER JAMB) DOUBLE STUDS

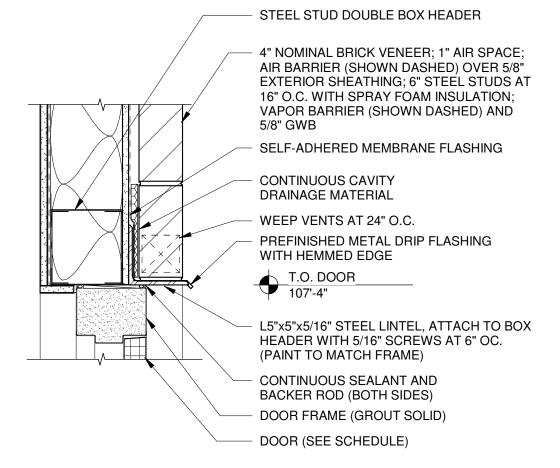
6 INTERIOR DOOR HEAD

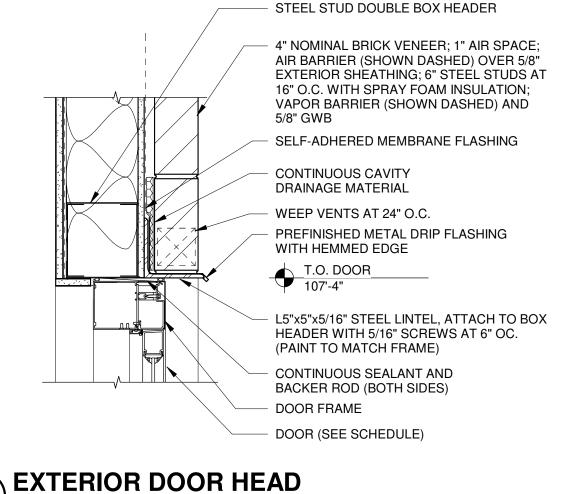
MIN. 1/2" AT

FIRE RATED—

OPENINGS

7 INTERIOR DOOR JAMB
3" = 1'-0"





EXTERIOR DOOR HEAD

DOOR AND HARDWARE SCHEDULE ABBREVIATIONS

4" NOMINAL BRICK VENEER; 1" AIR SPACE; AIR BARRIER (SHOWN DASHED) OVER 5/8" EXTERIOR SHEATHING; 6" STEEL STUDS AT 16" O.C. WITH SPRAY FOAM INSULATION: VAPOR BARRIER (SHOWN DASHED) AND 5/8" GWB SELF-ADHERED MEMBRANE FLASHING DOOR (SEE SCHEDULE) DOOR FRAME (GROUT SOLID) CONTINUOUS SEALANT AND BACKER ROD (BOTH SIDES) - DOUBLE STUDS

4" NOMINAL BRICK VENEER; 1" AIR SPACE; AIR BARRIER (SHOWN DASHED) OVER 5/8" EXTERIOR SHÈATHING; 6" STEÉL STUDS AT 16" O.C. WITH SPRAY FOAM INSULATION: VAPOR BARRIER (SHOWN DASHED) AND SELF-ADHERED MEMBRANE FLASHING DOOR (SEE SCHEDULE) DOOR FRAME CONTINUOUS SEALANT AND BACKER ROD (BOTH SIDES) DOUBLE STUDS 2 EXTERIOR DOOR JAMB
1 1/2" = 1'-0"

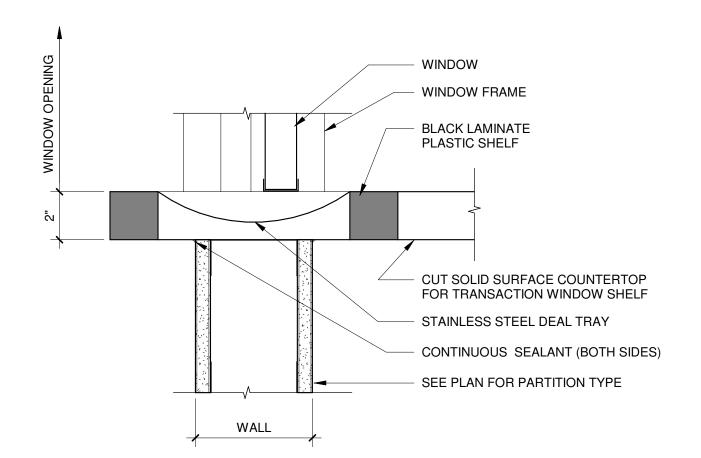
5 EXTERIOR DOOR JAMB
1 1/2" = 1'-0"

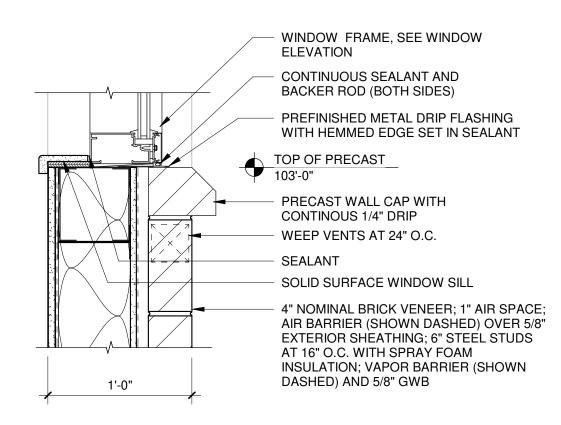
WALL BEYOND DOOR (SEE SCHEDULE) EXTERIOR FACE OF WALL BEYOND THRESHOLD SET IN SEALANT 1/2" RIGID INSULATION BETWEEN CONCRETE STOOP AND CONCRETE SLAB 2" RIGID INSULATION

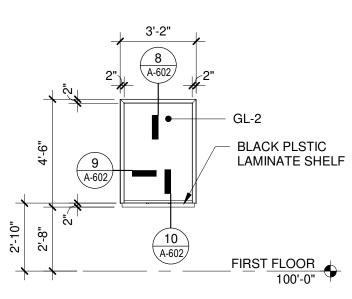
3 DOOR SILL
1 1/2" = 1'-0"

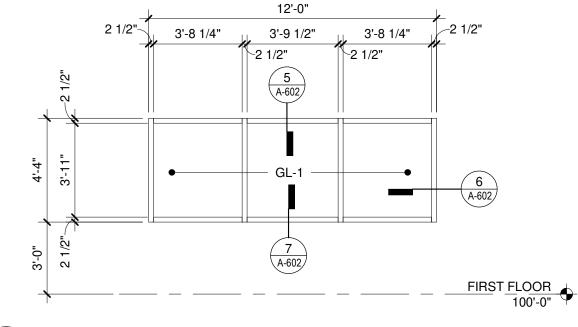
				ROOM	FINISH	SCHEDUL	E			
ROOM				WALLS				CEILING		
NO.	ROOM NAME	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	MTL	HEIGHT	REMARKS
			•	•			•			
101	GUARD WORK AREA	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACP-1	9'-6"	
102	TOILET	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	8'-0"	
103	FIRE PANEL	SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	EXPD	-	
104	BADGING AREA	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	8'-0"	
105	GUARD BOOTH	-	-	-	-	-	-	-	-	
106	GUARD BOOTH	-	-	-	-	-	-	-	-	
107	CVIF SUPPORT	-	-	-	-	-	-	-	-	

		PRODUCT DESCRIPTION							
FINISH DESCRIPTION	MANUFACTURER	MODEL NUMBER	STYLE	COLOR	SIZE	REMARKS			
ACCOUSTIC CEILING PANEL - TYPE 1	ARMSTRONG	556	CIRRUS BEVELED TEGULAR	WHITE	24" x 24"				
RUBBER WALL BASE - TYPE 1				ARCHITECTURAL BROWN	6"				
RUBBER FLOOR TILE - TYPE 1	NORA		GRANO	5310 HELICHRYSUM	24" x 24"				
SEALED CONCRETE - TYPE 1									
PAINT COLOR - TYPE 1	SHERWIN WILLIAMS			2134-70 GENESSE WHITE					
PAINT COLOR - TYPE 2	SHERWIN WILLIAMS			AIR GUARD ARCHITECTURAL BROW	/N				
PLASTIC LAMINATE - TYPE 1	WILSONART	D92-60		DOVE GREY					
POLISHED CONCRETE									
SOLID SURFACE - TYPE 1	CORIAN			SONORA					









10 INTERIOR WINDOW SILL
3" = 1'-0"

WINDOW SILL

BULLET RESISTANT WINDOW SYSTEM - W4

STEEL STUD DOUBLE BOX HEADER

4" NOMINAL BRICK VENEER; 1" AIR SPACE; AIR BARRIER (SHOWN DASHED) OVER 5/8" EXTERIOR SHEATHING; 6" STEEL STUDS AT 16" O.C. WITH SPRAY FOAM INSULATION: VAPOR BARRIER (SHOWN DASHED) AND

SELF-ADHERED MEMBRANE FLASHING

PREFINISHED METAL DRIP FLASHING WITH HEMMED EDGE

L5"x5"x5/16" STEEL LINTEL, ATTACH TO BOX HEADER WITH 5/16" SCREWS AT 6" OC. (PAINT TO MATCH FRAME)

CONTINUOUS CAVITY DRAINAGE MATERIAL

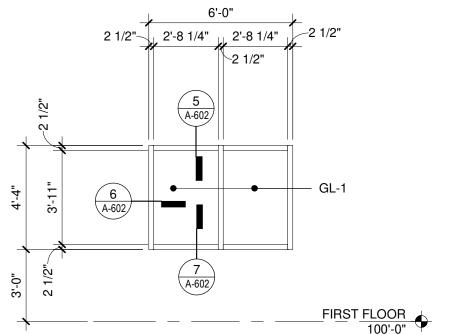
WEEP VENTS AT 24" O.C.

T.O. WINDOW 107'-4"

CONTINUOUS SEALANT AND BACKER ROD (BOTH SIDES) WINDOW FRAME, SEE WINDOW

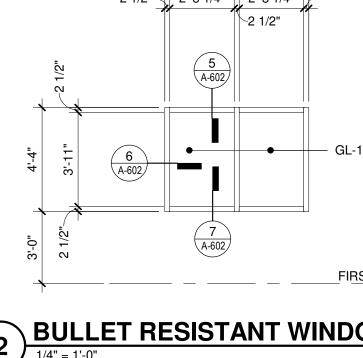
ELEVATION

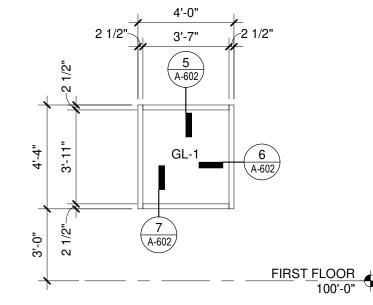
BULLET RESISTANT WINDOW SYSTEM - W1



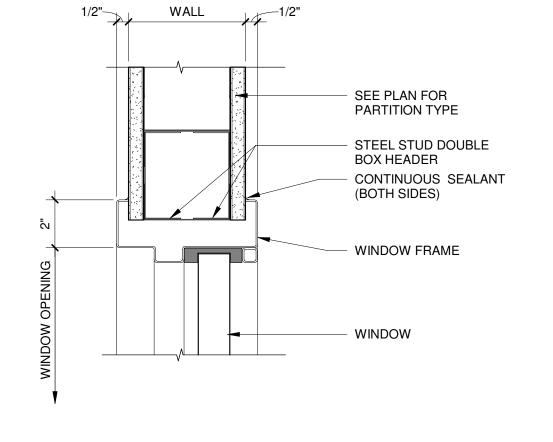
BULLET RESISTANT WINDOW SYSTEM - W2

1/4" = 1'-0"

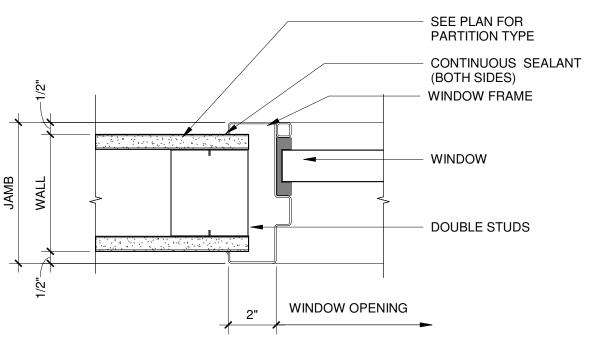




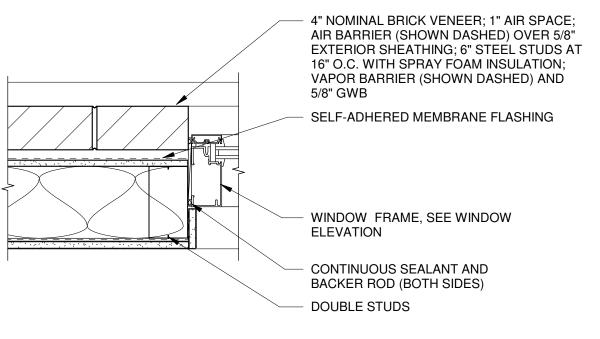
BULLET RESISTANT WINDOW SYSTEM - W3



8 INTERIOR WINDOW HEAD
3" = 1'-0"



9 INTERIOR WINDOW JAMB
3" = 1'-0"



6 WINDOW JAMB
1 1/2" = 1'-0"

5) WINDOW HEAD
1 1/2" = 1'-0"

ANG Project No.: MBMV099170 FIRST FLOOR 100'-0" M&H NO.: 3141900-113782.01 February 17, 2021

> DO NOT SCALE DRAWINGS SHEET CONTENTS

CHECKED BY: GAM

DESIGNED BY: PJC

DRAWN BY:

FINISH SCHEDULES AND WINDOW TYPES

Mead

Mead & Hunt, Inc. 2440 Deming Way Middleton, WI 53562 phone: 608-273-6380 meadhunt.com

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GUARD ENTRANCE

AN AIR NATIONAL RUCT MAIN BASE

MICHIG/ CONSTF

02/17/21 B3 FINAL

E K

CRE CRE

SHEET NO.:

PIPING SYMBOLS PLUMBING ABBREVIATIONS _

REINFORCED CONCRETE PIPE

REDUCED PRESSURE ZONE BPD

REVOLUTIONS PER MINUTE

REFERENCE

SCHEDULE

SCO STACK CLEANOUT

REF

RPM

MAXIMUM ALLOWABLE DIFFERENTIAL

MAWP MAXIMUM ALLOWABLE WORKING

THOUSAND BTU PER HOUR

PRESSURE

PRESSURE

MAXIMUM

AFF

AGD

AHJ

ALUM

APPROX

ANG

ASCE ASL ASME

ASSE

ASTM

BLDG ВО

BPD

BRS

BRZ

BTU BW

CISPI

COMP COR

CRA CS CTCLG CTCLM CTW CU DBA DCVA DEG DEMO DFD

DIA

DIM

DN

DISCH

DIAMETER

DIMENSION

DISCHARGE

DRAIN, WASTE AND VENT

DOWN

DRAWING

	_									
AMPS	Е	EXISTING	MC	MECHANICAL COUPLING	SD	SOLDER	0	DIDE TUDNED TOWARD		BALANCING VALVE
ALTERNATE BID ITEM	EEW	EMERGENCY EYE/FACE WASH	MCA	MINIMUM CIRCUIT AMPACITY	SDR	STANDARD DIMENSION RATIO	<u> </u>	PIPE TURNED TOWARD	. Г.	
ABOVE FINISHED FLOOR	FFF	EFFICIENCY	MCC	MOTOR CONTROL CENTER	SH	SHOWER	G	PIPE TURNED AWAY		BUTTERFLY VALVE
ABOVE GROUND	FL	ELEVATION	MFR	MANUFACTURER	SHR	SOCKET HEAT FUSION		PIPE TURNED AWAY		BACKFLOW PREVENTION VALVE
AUTHORITY HAVING JURISDICTION	ELEC	ELECTRIC	MIN	MINIMUM	SHT	SHEET		PIPE TURNED TOWARD	<u></u>	CHECK VALVE
ALUMINUM	EQPT	EQUIPMENT	MMBH	MILLION BTU PER HOUR	SMLS	SEAMLESS			1 7	
AIR NATIONAL GUARD	ESEW	EMERGENCY SHOWER/EYE WASH	MOCP	MINIMUM OVER CURRENT PROTECTION	SP	STATIC PRESSURE		FLEXIBLE CONNECTOR		FILTER
X APROXIMATELY	ET	EXPANSION TANK	MSS	MANUFACTURERS STANDARDIZATION	SPEC	SPECIFICATIONS		UNION	\longrightarrow	FLOW MEASUREMENT STATION
AMERICAN SOCIETY OF CIVIL ENGINEERS	ETR	EXISTING TO REMAIN		SOCIETY	SQ	SQUARE		FLANGES		GATE VALVE
ABOVE SEA LEVEL	EWC	ELECTRIC WATER COOLER	MTL	MATERIAL	SRV	SAFETY RELIEF VALVE	11		\sim	
AMERICAN SOCIETY OF MECHANICAL	F	fAHRENHEIT	NA	NOT APPLICABLE	SS	STAINLESS STEEL		REDUCER (CONCENTRIC)		GAUGE CONNECTION
ENGINEERS	FCO	FLOOR CLEANOUT	NC	NORMALLY CLOSED	STD	STANDARD		REDUCER (ECCENTRIC)	k I——	GLOBE ANGLE VALVE
AMERICAN SOCIETY OF SANITARY	FD	FLOOR DRAIN	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S	STL	STEEL	E	PIPE CAP	\T	GLOBE VALVE
ENGINEERS	FLA	FULL LOAD AMPS	NEDA	ASSOCIATION	SV	SOLVENT WELD			~ \	
AMERICAN SOCIETY FOR TESSTING AND MATERIALS	FLOW	FLOW OR FLOWRATE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION NATURAL GAS	SW	SOCKET WELD		PIPE PLUG	\longrightarrow	ISOLATION/SHUT-OFF/
BUTT HEAT FUSION	FPM	FEET PER MINUTE	NG NH	NO-HUB	TDH	TOTAL DEVELOPED HEAD		FLUID FLOW DIRECTION		MANUAL VALVE
BUILDING	FS	FLOOR SINK	NHC	NO-HUB COUPLING	TDS	TOTAL DISSOLVED SOLIDS	PG	PIPE GUIDE	─	PLUG VALVE
BID OPTION	FT	FEET	NIC	NOT IN CONTRACT	TEMP	TEMPERATURE	 PA			PRESSURE REDUCING VALVE
BACKFLOW PREVENTION DEVICE	FTWC	FEET WATER COLUMN PRESSURE	NO	NORMALLY OPEN	TFA	TO FLOOR ABOVE	— XPA	PIPE ANCHOR	. 4	
BRAZE	GAL	GALLON OR GAUGE	NOM	NOMINAL	TFB	TO FLOOR BELOW	PITCH		——X	PRESSURE REGULATING VALVE
BRASS	GBS	GASKETED BELL AND SPIGOT	NPSH	NET POSITIVE SUCTION HEAD	TH	THREADED		PIPE PITCH DIRECTION	─ ──\\$	RELIEF VALVE
BRONZE	GPM	GALLONS PER MINUTE	NPSHA	NPSH AVAILABLE	TYP	TYPICAL		NEW CONNECTION TO EXISTING	ISI	
BLACK (MILD) STEEL	GR	GROOVED GALVANIZED STEEL	NPSHR	NPSH REQUIRED	UFC	UNIFIED FACILITIES CRITERIA UNDERGROUND		EXISTING TO REMAIN	<u>——Ў——</u>	SOLENOID VALVE ONE-WAY
BRITISH THERMAL UNIT	GS	HEIGHT	OD	OUTSIDE DIAMETER	UGD UNO	UNLESS NOTED OTHERWISE				(ELECTRIC)
BUTT WELD	П HC	HOSE CONNECTION	OFCI	OWNER FURNISHED, CONTRACTOR	UR	URINAL		EXISTING TO BE REMOVED		OTDAINED
BRONZE	HDB	HYDROSTATIC DESIGN BASIS		INSTALLED	UV	ULTRAVIOLET		NEW TO BE INSTALLED	<u></u>	STRAINER
CAST IRON	HOA	HAND-OFF-AUTO	OFOI	OWNER FURNISHED, OWNER INSTALLED	V	VOLTS OR VENT	Θ	PRESSURE GAUGE	─── >	THROTTLING VALVE
CAST IRON SOIL PIPE INSTITUTE	HP	HORSE POWER	Р	PRESSURE	VFD	VARIABLE FREQUENCY DRIVE	П	THEOGOTE GAOGE	\bigcirc	
CENTERLINE	HX	HEAT EXCHANGER	PCN	PLANT CONTROL NETWORK	VLV	VALVE	<u>T</u>	TEMPERATURE GAUGE	T	VACUUM BREAKER
COMPRESSOR	HZ	HERTZ	PD	PRESSURE DROP/DIFFERENTIAL	VTR	VENT THROUGH ROOF	Ų		FS	
CONTRACTING OFFICER'S	IAW	IN ACCORDANCE WITH	PDI	PLUMBING DEVELOPMENT INSTITUTE	W	WATTS OR WIDTH		WATER HAMMER ARRESTOR		ELOW CENCOD
REPRESENTATIVE	IBNLT	INCLUDED BUT NOT LIMITED TO	PE	POLYETHYLENE	WC	WATER CLOSET		AID VENT (ALITO)		FLOW SENSOR
CONCRETE REACTION ANCHOR	ID	INSIDE DIAMETER	PH	PHASE	WCO	WALL CLEANOUT	₩MV	AIR VENT (AUTO)	LS	
CARBON STEEL	ΙE	INVERT ELEVATION	PL	PLACES	YCO	YARD CLEANOUT		AIR VENT (MANUAL)		LEVEL SENSOR
CLOSE TO COLLIMN	IN	INCH	PP	POLYPROPYLENE				AUTOMATIC CONTROL VALVE (2-WAY)		22722 32.13311
CLOSE TO COLUMN CLOSE TO WALL	INHG	INCHES MERCURY PRESSURE	PPH	POUND PER HOUR			, c	,	PS	
COPPER OR CUBIC	INWC	INCHES WATER COLUMN PRESSURE	PREDV	PRESSURE REDUCING VALVE			——————————————————————————————————————	AUTOMATIC CONTROL VALVE (3-WAY)		PRESSURE SENSOR
DECIBELS, BAND A	IPC	INTERNATIONAL PLUMBING CODE	PSI	POUNDS PER SQUARE INCH			——ф——	BALL VALVE	TS	
DOUBLE CHECK VALVE ASSEMBLY BPD	L	LENGTH OR LAVATORY	PSIA	PSI ABSOLUTE						
DEGREE	LB	POUNDS	PSID	PSI DIFFERENTIAL PSI GAGE						TEMPERATURE SENSOR
DEMOLISH OR DEMOLITION	LCO	LINE CLEAN OUT	PSIG	POLYVINYL CHLORIDE						
DEPARTMENT OF DEFENSE	LIN	LINEAR	PVC	QUANTITY						
DUCTILE IRON	LPG	LIQUIFIED PETROLEUM GAS	QTY RCP							
DOCTILE II TOIN		NANCINAL INA ALL OVALARI E RIFERRESETTI I	KUP	REINFORCED CONCRETE PIPE						

PLUMBING PIPING:

	Α	COMPRESSOR AIR
	CD	CONDENSATE
	CW	DOMESTIC COLD WATER
	SCW	DOMESTIC SOFT COLD WATER
	HW	DOMESTIC HOT WATER
	SHW	DOMESTIC SOFT HOT WATER
	HWR	DOMESTIC HOT WATER RETURN
	SHWR	DOMESTIC SOFT HOT WATER RETURN
	MW	DOMESTIC MIXED WATER
	G	NATURAL GAS
	SAN	SANITARY DRAIN
	V	VENT FOR SANITARY DRAIN
	ST	STORM DRAIN

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Mead

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GUARD

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GENERAL NOTES:

- ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO
- 2. THESE DRAWINGS ARE DESIGN DRAWINGS AND ARE DIAGRAMMATIC, THEY MAY NOT SHOW ALL PHYSICAL ARRANGEMENTS, OFFSETS, BENDS, OR ELBOWS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION OF VARIOUS MATERIALS, EQUIPMENT, PIPING AND DUCTWORK SYSTEMS IN ALLOTTED SPACES. EXAMINE THESE AND OTHER AVAILABLE DRAWINGS TO DETERMINE SPACE LIMITATIONS AND INTERFERENCES. MAKE ANY MINOR CHANGES IN LOCATIONS OF EQUIPMENT, PIPING, AND DUCTWORK FROM THAT SHOWN ON DRAWINGS AND FOR ALL PHYSICAL DETAILS REQUIRED FOR INSTALLATION.
- 3. ELEVATION OF PIPING AND DUCTWORK INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINES TO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESEEN INTERFERENCES. ANY CHANGE IN ELEVATION SHALL BE APPROVED PRIOR TO CHANGE.
- 4. ANY AND ALL INFORMATION SHOWN ON THESE DRAWINGS WITH RESPECT TO EXISTING STRUCTURES, UTILITIES, AND MECHANICAL SYSTEMS, IS AS EXACT AS COULD BE SECURED. THE INFORMATION IS NOT WARRANTED NOR GUARANTEED ACCURATE, FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK.
- 5. ACCURATE AND LEGIBLE AS-BUILT DRAWING MARKUPS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT FOR THE CREATION OF FINAL RECORD DRAWINGS.
- 7. TEMPORARILY PATCH ALL ROOF OPENINGS WATERTIGHT UNTIL FINAL CLOSURE CAN BE MADE.
- 8. VERIFY ALL EQUIPMENT LOCATIONS AND PIPE ROUTING WITH OWNER PRIOR TO INSTALLATION.
- 9. SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH EXISTING OPERATIONS.
- ALL WORK WHICH IS SHOWN ON THE DRAWINGS, STATED IN THE SPECIFICATIONS, OR REASONABLY IMPLIED AS NECESSARY TO COMPLETE THEIR DIVISION OF WORK FOR THIS PROJECT REGARDLESS OF WHERE IN THE CONTRACT DOCUMENTS THE WORK IS REPRESENTED. PLUMBING CONTRACTOR TO COORDINATE WORK WITH ALL OTHER TRADES. ALL OTHER TRADE DOCUMENTS ARE TO BE CONSIDERED PART OF THIS CONTRACTORS DOCUMENTS WITH RESPECT TO COORDINATION OF WORK

- THIS PROJECT. ADDITIONAL ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
- COST FOR ADAPTING WORK TO JOB SITE CONDITIONS SHALL NOT BE CONSIDERED AS BASIS OF AN...

- 6. ALL NEW AND EXISTING ROOFING SYSTEMS SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
- 10. THE PLUMBING CONTRACTOR SHALL EXAMINE ALL CONTRACT DOCUMENTS AND IS REQUIRED TO DO BETWEEN TRADES OF WORK.

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 DATE: February 17, 2021

02/17/21 B3 FINAL

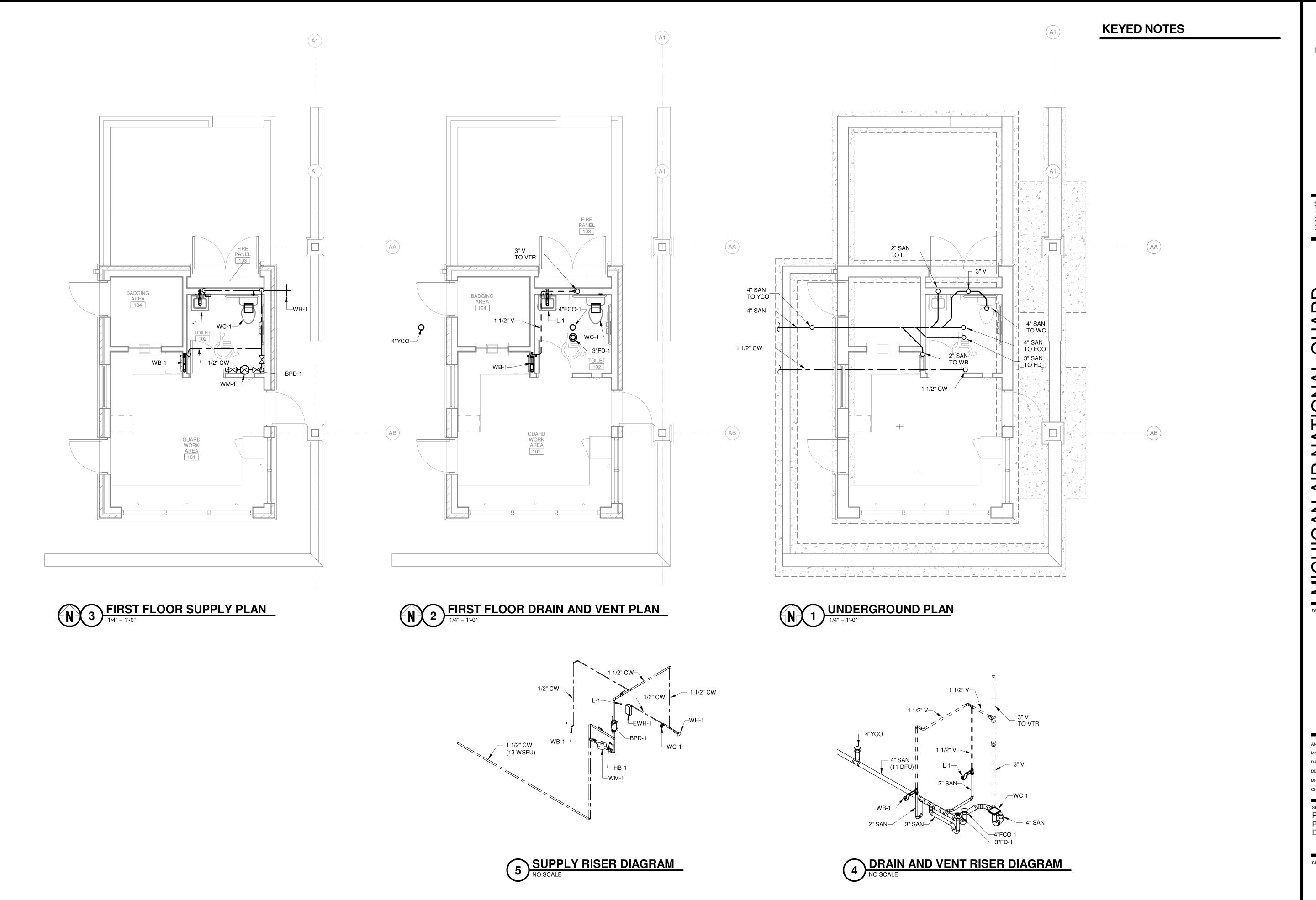
DESIGNED BY: RMM DRAWN BY: RMM CHECKED BY: JR

DO NOT SCALE DRAWINGS SHEET CONTENTS NOTES, SYMBOLS

AND ABBREVIATIONS

SHEET NO.:

P-001



Mead Hunt

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GUARD ENTRANCE

AN AIR NATIONAL RUCT MAIN BASE

02/17/21 B3 FINAL

BATTLE CREE BATTLE CREE

ANG Project No.: MBMV099170 3141900-113782.01 February 17, 2021

CHECKED BY: JR

SHEET CONTENTS PLUMBING FLOOR PLANS AND RISER DIAGRAMS

P-101

PIPE SIZE CHANGES

3/4

PIPE SIZES ARE INDICATED ON THIS SCHEDULE AND ON PLANS FROM WHERE PIPE SIZE IS... DRAIN PIPE SIZE SHALL NOT DIMINISH IN DOWNSTREAM DIRECTION. DRAIN PIPE SIZE SHALL NOT DIMINISH IN UPSTREAM DIRECTION TO NEXT BRANCH. VENT PIPE SIZE SHALL NOT DIMINISH IN DIRECTION AWAY FROM CONNECTION TO DRAIN.

REMARKS:

- (1) SEE GENERAL SCHEDULE NOTES.
- (2) 2" UNDERGROUND.

SUPPLY

- (3) MATCH FIXTURE PIPE SIZE.
- (4) CONNECT EACH FIXTURE WITH PIPE SIZES INDICATED.
- (5) UNLESS NOTED OTHERWISE, PROVIDE TRAPS ON ALL FIXTURES WITH DRAINS.

			PLUMBING FIXTURE SCHEDULE (1)					
		MANUFACTURER,	DESCRIPTION SUMMARY		ELECTI	RICAL		
MARK	EQUIPMENT TYPE	MODEL NUMBER	(SEE SPECIFICATIONS)	VOLTS/PHASE	AMPS	HP	WATTS	REMARKS
	LAVATORY BOWL	KOHLER, K-2005	WALL-MOUNT, VITREOUS CHINA, 21" x 18". TWO FAUCET HOLES. ADA. PROVIDE CONCEALED ARM SUPPORT, GRID DRAIN WITH OFFSET P-TRAP, AND TRAP WRAP KIT.					
L- 1	LAVATORY FAUCET	CHICAGO, 802-317XKCP-0.5	DECK MOUNT, 4" CENTERS. DUAL WRIST BLADE HANDLES. SHAPED SPOUT. CERAMIC DISK VALVE CARTRIDGES. 0.5 GPM AT 60 PSI. ADA. INSTALL WITH HEAVY DUTY LOOSE KEY STOPS AND TMV-2 ON HOT CIRCUIT.					
WB- 1	WATER DISPENSER	ELKAY, LBWDC00	IN-WALL, FILTERED WATER DISPENSER, NON-REFRIGERATED. INSTALL WITH NON-METALLIC BALL VALVE (FURNISHED WITH UNIT) AND PVC P-TRAP (FURNISHED BY PC) OR DIELECTRIC COUPLINGS ON SUPPLY AND DRAIN SYSTEMS.	120/1			25	
	WATER CLOSET BOWL	KOHLER, K-96057	FLOOR SET, 1.28 GPF, VITREOUS CHINA, SIPHON JET FLUSHOMETER. ADA.					
WC- 1	FLUSHOMETER	SLOAN ROYAL 111-1.28	MANUAL FLUSHOMETER, 1.28 GALLONS PER FLUSH. LOCATE HANDLE ON THE WIDE SIDE OF THE STALL.					
DEMARKS	WATER CLOSET SEAT	BEMIS, 9400SSCT	OPEN FRONT. STAINLESS STEEL SELF-SUSTAINING CHECK.					

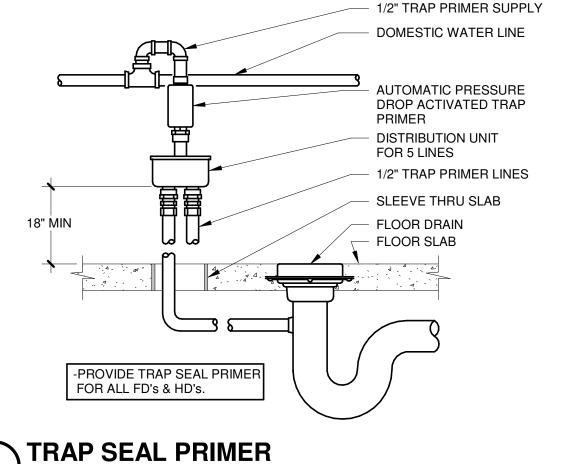
(1) SEE GENERAL SCHEDULE NOTES

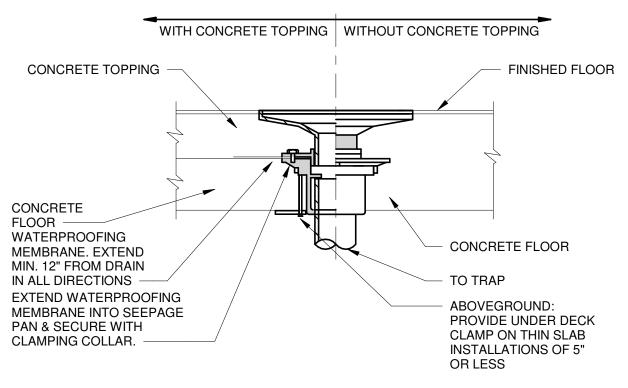
		MANUFACTURER,			ELECTRICAL				
MARK	EQUIPMENT TYPE	MODEL NUMBER	(SEE SPECIFICATIONS)		AMPS	HP	WATTS	REMARKS	
BPD- 1	BACKFLOW PREVENTION DEVICE	WATTS, LF909	REDUCED PRESSURE ZONE, VERTICAL ORIENTATION, ASSE 1013, 1-1/2". BRONZE.						
EWH- 1	ELECTRIC WATER HEATER	EEMAX, SPEX65T	INSTANTANEOUS TYPE WITH THERMOSTATIC CONTROL. 0.5 GPM AT 67 F RISE. SET AT 105 F	208/1	24		4900	3	
FCO- 1	FLOOR CLEANOUT	JR SMITH, Z4020	CAST IRON, MEDIUM DUTY NICKEL-BRONZE COVER						
FD- 1	FLOOR DRAIN	ZURN, Z415	CAST IRON, MEDIUM DUTY NICKEL-BRONZE GRATE						
HB- 1	HOSE BIBB	WOODFORD, 24	ASSE-1011, BRONZE.						
WH- 1	WALL HYDRANT	SMITH, 5619	ASSE-1019, BRONZE. FREEZEPROOF. QUARTER-TURN OPERATION. EXPOSED WHEEL HANDLE AND HOSE CONNECTION.						
TP- 1	TRAP PRIMER	PPP, PR-500SS	ASSE-1018. STAINLESS STEEL. SUPPLY FROM SINK CW SUPPLY.						
WM- 1	WATER METER	OFCI	20 GPM PEAK FLOWRATE. NSF-61. PROVIDE AUXILIARY OUTPUT FOR BUILDING AUTOMATION SYSTEM.	120/1			15	3	

SEE GENERAL SCHEDULE NOTES

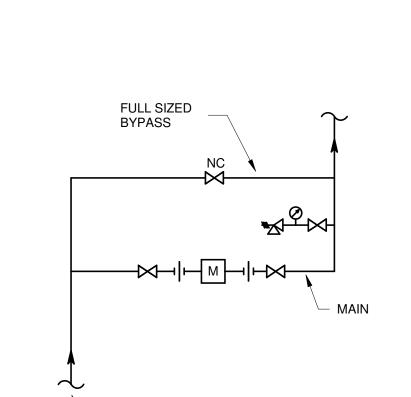
- DISCONNECT INCLUDED
- EXTERNAL DISCONNECT REQUIRED (BY ELECTRICAL CONTRACTOR)

<u> </u>	
4"MIN. 4"MIN.	BPD DRAIN
	< 2" 2"
BPD W	2" - 3" 3"
	4" 4"
PLAN VIEW 24"MIN.	— VALVE HANDLE SIDE
	OBSTRUCTIONS
18"MIN.	HIGH POINT
	— ISOLATION VALVE
SHOW BPD W	— LOW POINT <u> </u>
	— AIR GAP FITTING — PITCHED DRAIN PITCHED DRAIN FLOOR/HUB DRAIN O O O O O O O O O O O O O
	— PITCHED DRAIN } 以 え
12"-84"	— FLOOR/HUB DRAIN Z
ELEVATION VIEW	0
	FINISHED FLOOR

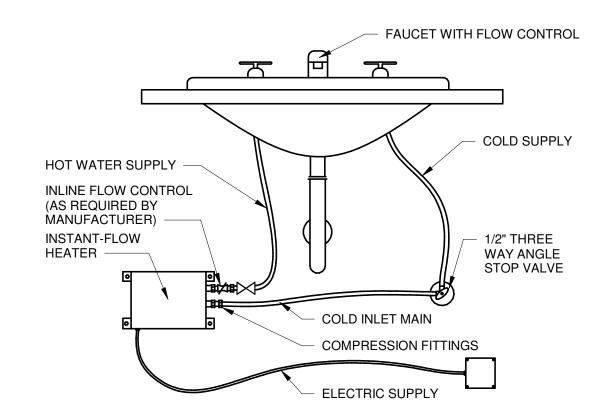




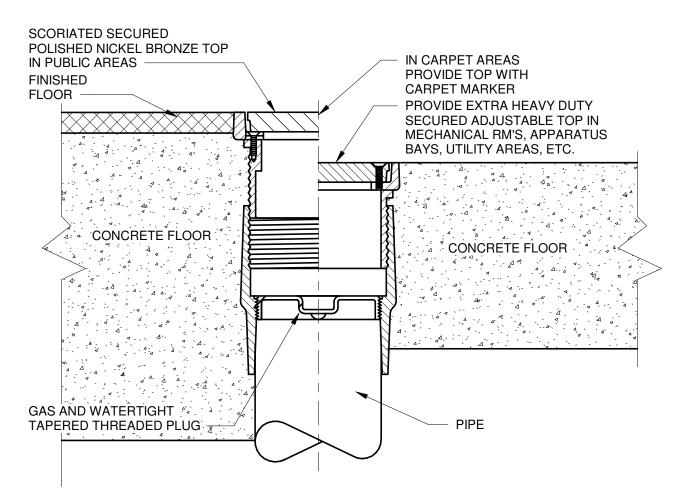




6 ASSE-1013 & ASSE-1015
NO SCALE



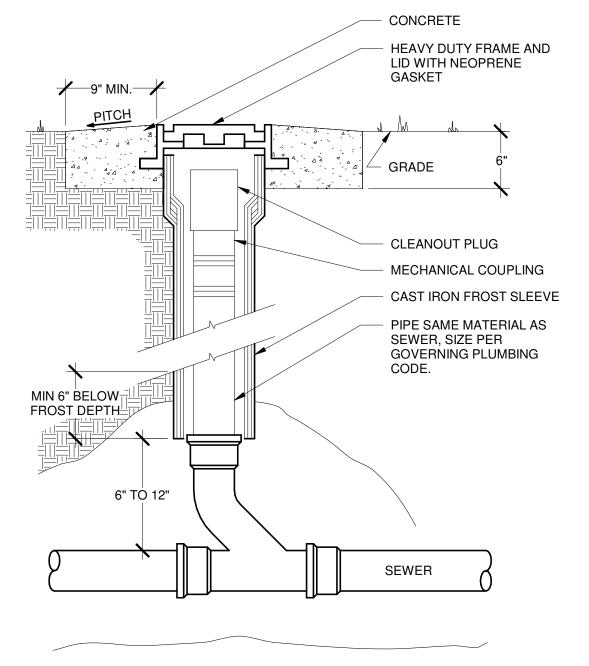
INSTANTANEOUS TANKLESS ELECTRIC WATER HEATER NO SCALE	
NO SCALE	



	FLOOR CLEANOUT	(FCO))
()	NO SCALE		

PIPE SIZE	FIXTURE UNIT	CROSS REFERENCE (PDI)
1/2"	1-11	А
3/4"	12-32	В
1"	33-60	С
1 1/4"	60-113	D
1 1/2"	114-154	Е
2"	155-330	F
2 1/2"	331-554	G

PROVIDE WATER HAMMER ARRESTORS AT ALL AUTO/SELF CLOSING FIXTURES. (WATERCLOSETS, URINALS, CLOTHES WASHERS, DISHWASHERS, ETC)



YARD CLEANOUT (YCO)
NO SCALE

DO NOT SCALE DRAWINGS SHEET CONTENTS **DETAILS AND** SCHEDULES

DESIGNED BY: RMM

CHECKED BY: JR

DRAWN BY:

ANG Project No.: MBMV099170

3141900-113782.01

February 17, 2021

02/17/21 B3 FINAL

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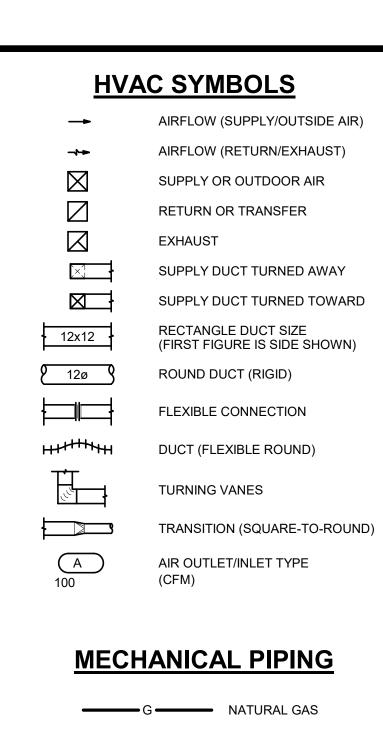
CRE CRE

SHEET NO.:

P-601

7 WATER METER PIPING
NO SCALE

- WATER SERVICE



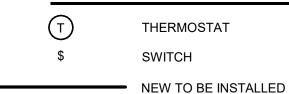
PIPING SYMBOLS O PIPE TURNED TOWARD PIPE TURNED AWAY PIPE TEE TURNED AWAY PIPE TEE TURNED TOWARD FLEXIBLE CONNECTOR ---- UNION ------ FLANGES REDUCER (CONCENTRIC) REDUCER (ECCENTRIC) PIPE CAP/CLEAN OUT PIPE PLUG FLUID FLOW DIRECTION PIPE GUIDE PIPE ANCHOR PIPE PITCH DIRECTION PRESSURE GAUGE THERMOMETER WATER HAMMER ARRESTOR — AIR VENT (AUTO) ∤нм∨ — AIR VENT (MANUAL) — AUTOMATIC CONTROL VALVE (2-WAY) —— AUTOMATIC CONTROL VALVE (3-WAY) H⊕H BALL VALVE BALANCING VALVE BUTTERFLY VALVE BACKFLOW PREVENTION VALVE —— CHECK VALVE EQUIPMENT DRAIN VALVE FLOW MEASUREMENT STATION GATE VALVE — GAUGE CONNECTION (TEST PLUG) GLOBE ANGLE VALVE GLOBE VALVE ISOLATION/SHUT-OFF/MANUAL VALVE PLUG VALVE PRESSURE REDUCING VALVE PRESSURE REGULATING VALVE RELIEF VALVE STEAM TRAP SOLENOID VALVE ONE-WAY (ELECTRIC) STRAINER STRAINER WITH BLOW OFF VALVE AND VACUUM BREAKER FLOW SENSOR

GENERAL SYMBOLS

LEVEL SENSOR

TEMPERATURE SENSOR

PRESSURE SENSOR



GENERAL MECHANICAL NOTES

- 1. THE MECHANICAL CONTRACTOR SHALL EXAMINE ALL CONTRACT DOCUMENTS AND IS REQUIRED TO DO ALL WORK WHICH IS SHOWN ON THE DRAWINGS, STATED IN THE SPECIFICATIONS, OR REASONABLY IMPLIED AS NECESSARY TO COMPLETE THEIR DIVISION OF WORK FOR THIS PROJECT REGARDLESS OF WHERE IN THE CONTRACT DOCUMENTS THE WORK IS REPRESENTED. MECHANICAL CONTRACTOR TO COORDINATE WORK WITH ALL OTHER TRADES. ALL OTHER TRADE DOCUMENTS ARE TO BE CONSIDERED PART OF THIS CONTRACTORS DOCUMENTS WITH RESPECT TO COORDINATION OF WORK BETWEEN TRADES OF WORK.
- 2. ABBREVIATIONS AND SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
- 3. THESE DRAWINGS ARE DESIGN DRAWINGS AND ARE DIAGRAMMATIC, THEY MAY NOT SHOW ALL PHYSICAL ARRANGEMENTS, OFFSETS, BENDS, OR ELBOWS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION OF VARIOUS MATERIALS, EQUIPMENT, PIPING AND DUCTWORK SYSTEMS IN ALLOTTED SPACES. EXAMINE THESE AND OTHER AVAILABLE DRAWINGS TO DETERMINE SPACE LIMITATIONS AND INTERFERENCES. MAKE ANY MINOR CHANGES IN LOCATIONS OF EQUIPMENT, PIPING, AND DUCTWORK FROM THAT SHOWN ON DRAWINGS AND FOR ALL PHYSICAL DETAILS REQUIRED FOR INSTALLATION. COST FOR ADAPTING WORK TO JOB SITE CONDITIONS SHALL NOT BE CONSIDERED AS BASIS OF AN EXTRA COST TO CONTRACT.
- 4. ELEVATION OF PIPING AND DUCTWORK INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINES TO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESEEN INTERFERENCES. ANY CHANGE IN ELEVATION SHALL BE APPROVED PRIOR TO CHANGE.
- 5. ANY AND ALL INFORMATION SHOWN ON THESE DRAWINGS WITH RESPECT TO EXISTING STRUCTURES, UTILITIES, AND MECHANICAL SYSTEMS, IS AS EXACT AS COULD BE SECURED. THE INFORMATION IS NOT WARRANTED NOR GUARANTEED ACCURATE, FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK.
- 6. ACCURATE AND LEGIBLE AS-BUILT DRAWING MARKUPS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT FOR THE CREATION OF FINAL RECORD DRAWINGS.
- 7. ALL NEW AND EXISTING ROOFING SYSTEMS SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
- 8. TEMPORARILY PATCH ALL ROOF OPENINGS WATERTIGHT UNTIL FINAL CLOSURE CAN BE MADE.
- 9. VERIFY ALL EQUIPMENT LOCATIONS AND PIPE AND DUCT ROUTING WITH OWNER PRIOR TO INSTALLATION.
- 10. SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH EXISTING OPERATIONS.
- 11. MAINTAIN 3'-0" CLEAR HORIZONTALLY IN FRONT OF ALL ELECTRICAL EQUIPMENT.
- 12. COORDINATE POWER REQUIREMENTS FOR ALL POWER TO MECHANICAL EQUIPMENT INCLUDING CONTROL SYSTEM WITH ELECTRICAL CONTRACTOR AND INSURE ALL COSTS ASSOCIATED WITH SUCH ARE INCLUDED IN THE PROJECT BID COST. PROVIDE ELECTRICAL POWER, TRANFORMERS, RELAYS, ETC. AS NECESSARY TO ALL HVAC AND MECHANICAL CONTROLS.
- 13. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES ON ALL EQUIPMENT.

ABBREVIATIONS

^	AMPS	DISCH	DISCHARGE	ID		00	SUPPLY GRILLE
A AB	AIR BLOWLOWN	DMPR	DAMPER	IR KH	INFRARED HEATER KITCHEN HOOD	SG SHT	SHEET
ABI	ALTERNATE BID ITEM	DNI	DOWN	KW	KILOWATT	SMLS	SEAMLESS
AC	DUCTLESS SPLIT SYSTEM	DOD	DEPARTMENT OF DEFENSE	L	LOUVER OR LENGTH	SMS	SNOW MELTING SYSTEM DISTRIBUTION
ACC	AIR COOLED CONDENSER	DRC	DRY COOLER	LAT	LEAVING AIR TEMPERATURE		MANIFOLD
ACCU	AIR COOLED CONDENSING UNIT	DWG	DRAWING	LB	POUNDS	SP	STATIC PRESSURE
ACH	AIR COOLED CHILLER	DX	DIRECT EXPANSION	LD	LINEAR DIFFUSER	SPEC	SPECIFICATIONS
ACOMP	AIR COMPRESSOR	E	EXISTING	LFT	LEAVING FLUID TEMPERATURE	SQ	SQUARE
ACU	AIR CONDITIONING UNIT	EA	EXHAUST AIR	LPG	LIQUIFIED PETROLEUM GAS	SRV	SAFETY RELIEF VALVE
ACV	AUTOMATIC CONTROL VALVE	EAT	ENTERING AIR TEMPERATURE	LS	LEVEL SWITCH	SS	STAINLESS STEEL
AD	AIR DROP	EBH	ELECTRIC BASEBOARD HEATER	LWT	LEAVING WATER TEMPERATURE	ST	STEAM TRAP
AF AFC	AIR FILTER OR AIR FOIL ACOUSTICAL FLEXIBLE CONNECTOR	EC	EVAPORATIVE COOLER OR ELECTRICAL CONTRACTOR	MADP MAU	MAXIMUM ALLOWABLE DIFFERENTIAL PRESSURE	STD STL	STANDARD STEEL
AFF	ABOVE FINISHED FLOOR	EDH	ELECTRIC DUCT HEATER	MAWP	MAKE-UP AIR UNIT MAXIMUM ALLOWABLE WORKING PRESSURE	SV	SOLVENT WELD
AHJ	AUTHORITY HAVING JURISDICTION	EF	EXHAUST FAN	MAX	MAXIMUM MAXIMUM	SW	SOCKET WELD
AHU	AIR HANDLING UNIT	EFF	EFFICIENCY	MBH	THOUSANDS BTU'S PER HOUR	T	TEMPERATURE
AL	ALUMINUM	EFT	ENTERING FLUID TEMPERATURE	MC	MECHANICAL CONTRACTOR OR MECHANICAL	TA	TRANSFER AIR
AMD	AIR MIXING DEVICE	EG	EXHAUST GRILLE		COUPLING	TCP	TEMPERATURE CONTROL PANEL
ANG	AIR NATIONAL GUARD	EGLY	ETHYLENE GLYCOL	MCA	MINIMUM CIRCUIT AMPACITY	TDH	TOTAL DEVELOPED HEAD
APPROX	APPROXIMATELY	EHC	ELECTRIC HEATING COIL	MCC	MOTOR CONTROL CENTER	TDS	TOTAL DISSOLVED SOLIDS
AS	AIR SEPARATOR	EJ	EXPANSION JOINT	MFR	MANUFACTURER	TEMP	TEMPERATURE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	EL	ELEVATION	MIN	MINIMUM	TG	TRANSFER GRILLE
AT	AIR TERMINAL	ELEC	ELECTRIC	MMBH	MILLION BTU PER HOUR	TH	THREADED
AWC	ABSORPTION CHILLER	EOM	END OF MAIN	MOCP	MINIMUM OVER CURRENT PROTECTION	TMC	TECHNOLOGY MANAGEMENT CENTER
BAS	BUILDING AUTOMATION SYSTEM	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	MSS	MANUFACTURERS STANDARDIZATION SOCIETY	TMV	THERMOSTATIC MIXING VALVE
BC	BOOSTER COIL	ERV	AIR-TO-AIR HEAT EXCHANGER	MTL	MATERIAL	TONR	TONS COOLING
BH BHP	BOOSTER HUMIDIFIER BRAKE HORSEPOWER	ESP ET	EXTERNAL STATIC PRESSURE EXPANSION TANK	NA NC	NOT APPLICABLE NORMALLY CLOSED	TYP UC	TYPICAL UNIT COOLER
BHR	CONTINUOUS BLOWDOWN HEAT RECOVERY	ETR	EXPANSION TANK EXISTING TO REMAIN	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	UFC	UNIFIED FACILITIES CRITERIA
Dilix	SYSTEM	EWH	ELECTRIC WALL HEATER	NH	NO-HUB	UGD	UNDERGROUND
ВІ	BACKWARD INCLINED	EWT	ENTERING WATER TEMPERATURE	NIC	NOT IN CONTRACT	UH	UNIT HEATER
BLD	BOILER BLOWDOWN SEPARATOR	°F	FAHRENHEIT	NO	NORMALLY OPEN	UNO	UNLESS NOTED OTHERWISE
BPD	BACKFLOW PREVENTION DEVICE	FAF	FORCED AIR FURNACE	NOM	NOMINAL	UV	UNIT VENTILATOR OR ULTRAVIOLET
BRS	BRASS	FC	FLUID COOLER	NPSH	NET POSITIVE SUCTION HEAD	V	VOLTS
BRZ/BZ	BRONZE	FCU	FAN COIL UNIT		NPSH AVAILABLE	VA	VENT AIR
BS	BLACK (MILD) STEEL	FE	FUME EXTRACTOR		NPSH REQUIRED	VER	VEHICLE EXHAUST REEL
BSB	BRANCH SELECTOR BOX	FLA	FULL LOAD AMPS	OA	OUTSIDE AIR	VFD	VARIABLE FREQUENCY DRIVE
BT	BUFFER TANK	FLR	FLOOR	OC	ON CENTER	VI	VIBRATION ISOLATORS
BTU	BRITISH THERMAL UNIT	FM	FLOW METER	OD	OUTSIDE DIAMETER	VLV	VALVE
BTUH	BRITISH THERMAL UNIT PER HOUR	FOP FPM	FUEL OIL PUMP	OED P	OPEN ENDED DUCT	VRF	VARIABLE REFRIGERANT FLOW
BW C	BUTTWELD CONVECTOR	FRIVI FRP	FEET PER MINUTE FIBERGLASS REINFORCED PLASTIC	PC PC	HYDRONIC PUMP OR PRESSURE PLUMBING CONTRACTOR	W WC	WATTS OR WIDTH WATER COLUMN
CA	COMBUSTION AIR	FT	FLASH TANK OR FEET	PCP	PRESSURE POWERED CONDENSATE PUMP	WCC	WATER COLOMN WATER COOLED CONDENSER
CAD	COMPRESSED AIR DRYER	FTC	FINNED TUBE CONVECTOR	PD	PRESSURE DROP/DIFFERENTIAL	WCH	WATER COOLED CONDENSER
CAF	COMPRESSED AIR FILTER	FTWC	FEET WATER COLUMN PRESSURE	PG	PROPYLENE GLYCOL	WF	WATER FILTER
CC	COOLING COIL OR CONTROLS CONTRACTOR	GA	GAUGE	PH	PHASE	WIV	WATER INLET VALVE
CD	CEILING DIFFUSER	GAL	GALLON	PPH	POUND PER HOUR	WHA	WATER HAMMER ARRESTOR
CFM	CUBIC FEET PER MINUTE	GC	GENERAL CONTRACTOR	PROP	PROPELLER		
CI	CAST IRON	GFT	GLYCOL FILL TANK	PRV	PRESSURE REDUCING VALVE		
COMP	COMPRESSOR	GPM	GALLONS PER MINUTE	PSI	POUNDS PER SQUARE INCH		
COND	CONDENSATE	GS	GALVANIZED STEEL	PSIA	PSI ABSOLUTE		
COR	CONTRACTING OFFICER'S REPRESENTATIVE	Н	HEIGHT	PSID	PSI DIFFERENTIAL		
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT	HB	HUMIDIFICATION BOILER	PSIG	PSI GAGE		
CRP	CONDENSATE RETURN PUMP	HC	HEATING COIL	PTAC	PACKAGED TERMINAL LIFAT DUMP		
CS CT	CENTRIFUGAL SEPARATOR COOLING TOWER	HD HDB	HEAD (FT) HYDROSTATIC DESIGN BASIS	PTHP PVC	PACKAGED TERMINAL HEAT PUMP POLYVINYL CHLORIDE		
CTCLG	CLOSE TO CEILING	HP	HEAT PUMP OR HORSEPOWER	RA	RETURN AIR		
CTCLM	CLOSE TO COLUMN	HPC	ERV HEAT PUMP COIL	RCP	RADIANT CEILING PANEL		
CTW	CLOSE TO COLOMIN	HR	HOSE REEL	RDH	REFRIGERATED DEHUMIDIFIER		
CU	COPPER	HRW	ROTARY AIR-TO-AIR EXCHANGER	RG	RETURN GRILLE		
CUH	CABINET UNIT HEATER	HUM	HUMIDIFIER	RH	RELIEF HOOD		
DAC	DOOR AIR CURTAIN	HWB	HOT WATER BOILER	RPM	REVOLUTIONS PER MINUTE		
DBA	DECIBELS, BAND A	HX	FLUID HEAT EXCHANGER	RTD	RESISTIVE THERMAL DEVICE		
DC	DUST COLLECTOR	HZ	HERTZ	RTU	ROOF TOP UNIT		
DCVA	DOUBLE CHECK VALVE ASSEMBLY BPD	IAW	IN ACCORDANCE WITH	RZ	RADIANT FLOOR HEATING ZONE		
DDC	DIRECT DIGITAL CONTROL	ID	INSIDE DIAMETER	SA	SUPPLY AIR		
DDH	DESICCANT DEHUMIDIFIER	IE IECC	INVERT ELEVATION	SAD	SOUND ATTENUATING DEVICE		
DEMO	DEMOLISH DESTRATIFICATION FAN	IFGC	INTERNATIONAL FUEL GAS CODE	SB	SECURITY BARRIER		
DF DFD	DESTRATIFICATION FAN DIVISION OF FACILITIES DEVELOPMENT	IH IN	INTAKE HOOD INCH	SCFM SCH	STANDARD CFM SCHEDULE		
DIA	DIAMETER	INHG	INCH INCHES MERCURY PRESSURE	SD	SLOT DIFFUSER/SOLDER		
DIM	DIMENSION	INWC	INCHES WATER COLUMN PRESSURE	SF	STEAM FILTER OR SUPPLY FAN		
Dilvi	5			<u>.</u>	5.2.4WI ILILIX 51X 501 I L1 17414		

Mead

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CHIGAN AIR NATIONAL GU INSTRUCT MAIN BASE EN

DED 02/17/21 B3 FINAL

ANG Project No.: MBMV099170
M&H NO.: 3141900-113782.01

DATE: February 17, 2021
DESIGNED BY: AR
DRAWN BY: AR
CHECKED BY: KML

SHEET CONTENTS

NOTES, SYMBOLS

AND ABBREVIATIONS

SHEET NO

M-001

GATEHOUSE FIRST FLOOR HVAC PLAN

GENERAL HVAC NOTES

- 1. PROVIDE MANUAL BALANCE DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKE-OFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK EXCEPT KITCHEN GREASE EXHAUST DUCT. LOCATE BALANCE DAMPER AS CLOSE TO BRANCH TAKE-OFF AS POSSIBLE.
- 2. DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME AS NECK SIZE UNLESS NOTED OR DETAILED OTHERWISE.
- COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH REFLECTED CEILING PLAN.
- 4. PROVIDE FLEXIBLE DUCTWORK FOR FINAL CONNECTIONS TO SUPPLY AIR DIFFUSERS UNLESS NOTED OTHERWISE ON DRAWINGS OR IN SPECIFICATIONS. FLEXIBLE DUCT SIZE SHALL BE SAME AS NECK SIZE OF DIFFUSER AND SHALL NOT EXCEED 5 FEET IN LENGTH.

GENERAL PIPING NOTES

- 1. WELD-O-LETS AND THREAD-O-LETS MAY BE USED FOR BRANCH TAKE-OFFS UP TO ONE-HALF THE DIAMETER OF THE MAIN.
- 2. INSTALL DIELECTRIC FITTINGS WHERE PIPING OF DIFFERENT MATERIALS IS
- 3. INSTALL PIPING FREE OF SAGS AND BENDS.
- 4. LOCATE ALL VALVES FOR EASY ACCESS. INSTALL VALVES WITH STEM UP OR HORIZONTAL.

KEYED NOTES

- 7.101 PROVIDE 6"Ø WALL CAP.
- 7.102 MECHANICAL VENTILATION EMERGENCY KILL SWITCH PER UFC 4-010-01. UPON ACTIVATION, THE SWITCH MUST BE CAPABLE OF SHUTTING DOWN THE AIR DISTRIBUTION AND EXHAUST SYSTEMS, AND CLOSE ALL DAMPERS LEADING TO THE OUTSIDE WITHIN 30 SECONDS, EVEN IF LOCAL HAND/OFF/AUTO SWITCH IS IN THE HAND POSITION.
- 7.103 UTILITY COMPANY RESPONSIBLE FOR UNDERGROUND PIPING TO GAS METER, PROVIDING AND SETTING THE GAS METER, SHUT-OFF VALVE DOWNSTREAM OF GAS METER, AND ANY NECESSARY PIPING AND VALVE ACCESSORIES. MECHANICAL CONTRACTOR RESPONSIBLE FOR INCLUDING COST OF UTILITIES WORK IN BID.
- 7.104 PROVIDE EQUIPMENT STAND FOR RTU-1. STAND SHALL BE HOT-DIP GALVANIZED WITH HOT-DIP GALVANIZED ANCHORS AND BE COMPLETELY ENCLOSED BY MIN. 18 GAUGE SHEET METAL.
- 7.105 CONNECT SUPPLY AND RETURN DUCT MAINS TO RTU-1 WITH ACOUSTICAL FLEXIBLE CONNECTORS (AFC).

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SHEET CONTENTS **GATEHOUSE FIRST** FLOOR HVAC PLAN

M-101

GENERAL HVAC NOTES

- 1. PROVIDE MANUAL BALANCE DAMPER AT EACH DIFFUSER, GRILLE, AND BRANCH TAKE-OFF IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK EXCEPT KITCHEN GREASE EXHAUST DUCT. LOCATE BALANCE DAMPER AS CLOSE TO BRANCH TAKE-OFF AS POSSIBLE.
- 2. DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME AS NECK SIZE UNLESS NOTED OR DETAILED OTHERWISE.
- 3. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH REFLECTED CEILING PLAN.
- 4. PROVIDE FLEXIBLE DUCTWORK FOR FINAL CONNECTIONS TO SUPPLY AIR DIFFUSERS UNLESS NOTED OTHERWISE ON DRAWINGS OR IN SPECIFICATIONS. FLEXIBLE DUCT SIZE SHALL BE SAME AS NECK SIZE OF DIFFUSER AND SHALL NOT EXCEED 5 FEET IN LENGTH.

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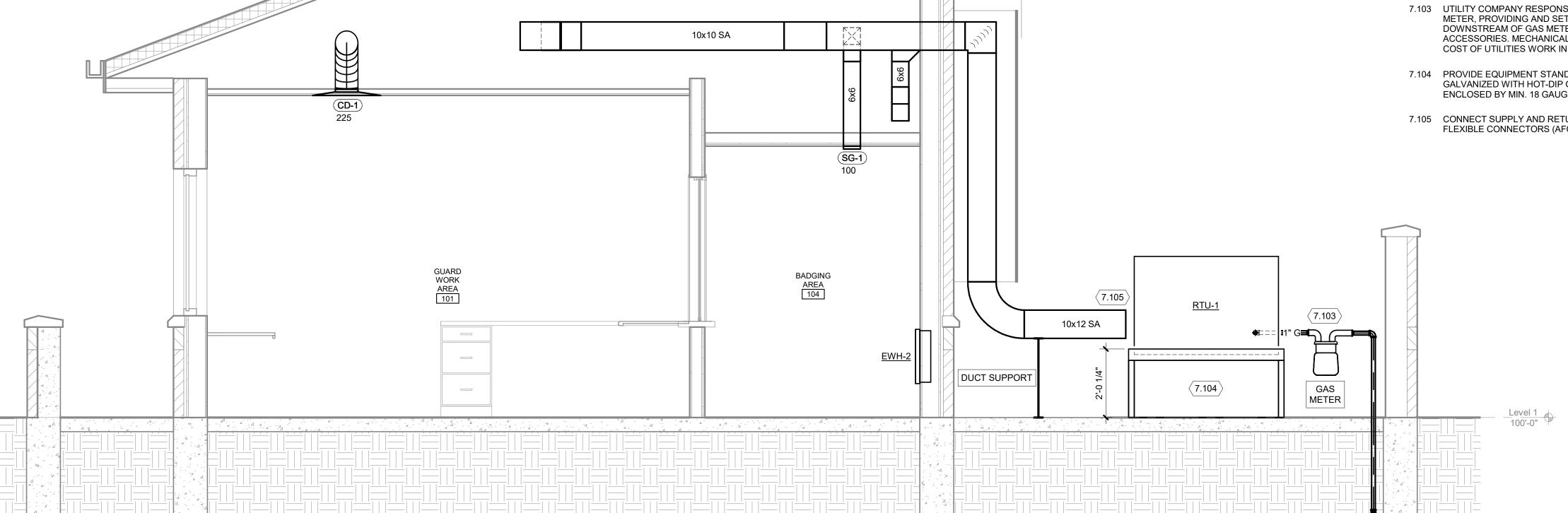
GENERAL PIPING NOTES

- 1. WELD-O-LETS AND THREAD-O-LETS MAY BE USED FOR BRANCH TAKE-OFFS UP TO ONE-HALF THE DIAMETER OF THE MAIN.
- 2. INSTALL DIELECTRIC FITTINGS WHERE PIPING OF DIFFERENT MATERIALS IS
- 3. INSTALL PIPING FREE OF SAGS AND BENDS.
- 4. LOCATE ALL VALVES FOR EASY ACCESS. INSTALL VALVES WITH STEM UP OR HORIZONTAL.

KEYED NOTES

7.103 UTILITY COMPANY RESPONSIBLE FOR UNDERGROUND PIPING TO GAS METER, PROVIDING AND SETTING THE GAS METER, SHUT-OFF VALVE DOWNSTREAM OF GAS METER, AND ANY NECESSARY PIPING AND VALVE ACCESSORIES. MECHANICAL CONTRACTOR RESPONSIBLE FOR INCLUDING

- COST OF UTILITIES WORK IN BID.
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- 7.105 CONNECT SUPPLY AND RETURN DUCT MAINS TO RTU-1 WITH ACOUSTICAL FLEXIBLE CONNECTORS (AFC).



3141900-113782.01 February 17, 2021

02/17/21 B3 FINAL

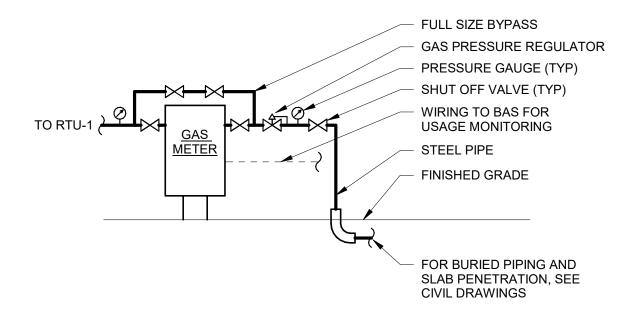
DESIGNED BY: AR CHECKED BY: KML

SHEET CONTENTS ENLARGED PLANS AND SECTIONS

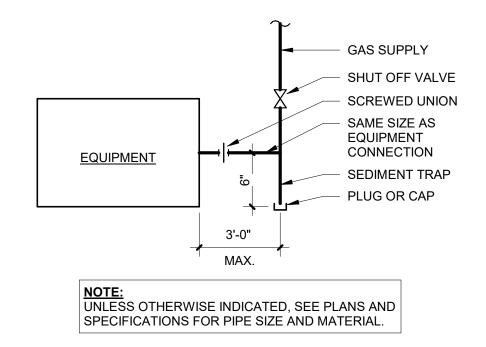
M-401

1 MECHANICAL SECTION - LOOKING NORTH

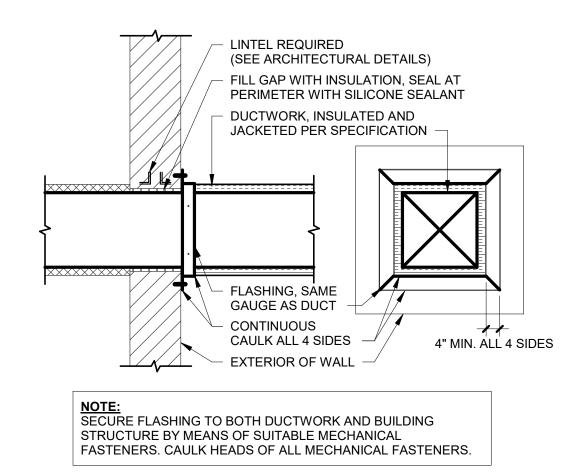
7 FLEXIBLE DUCT TO CEILING DIFFUSER



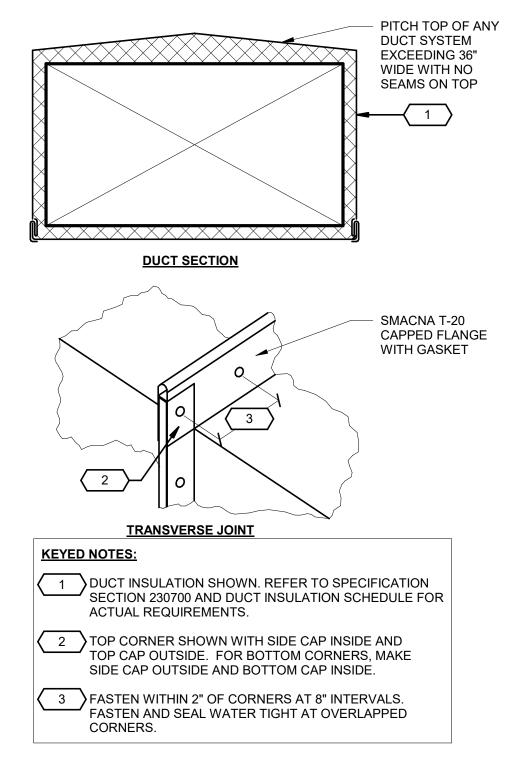
NATURAL GAS SERVICE ENTRANCE



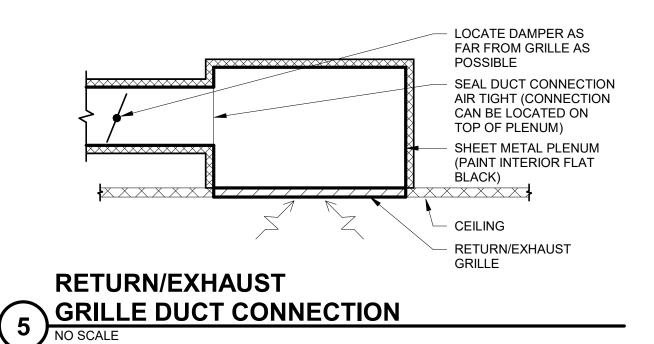
9 EQUIPMENT GAS CONNECTION (TYP) NO SCALE

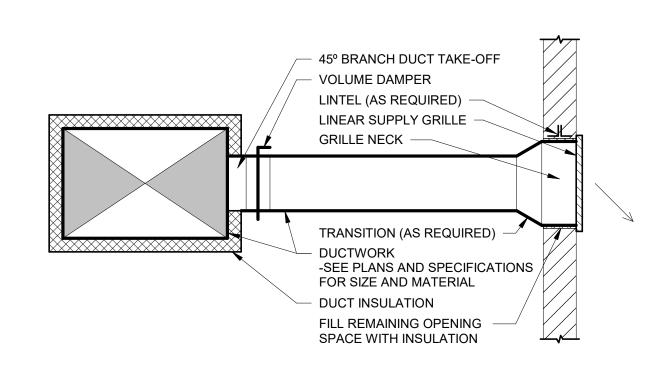


EXTERIOR WALL DUCT PENETRATION AND WEATHERPROOFING
NO SCALE

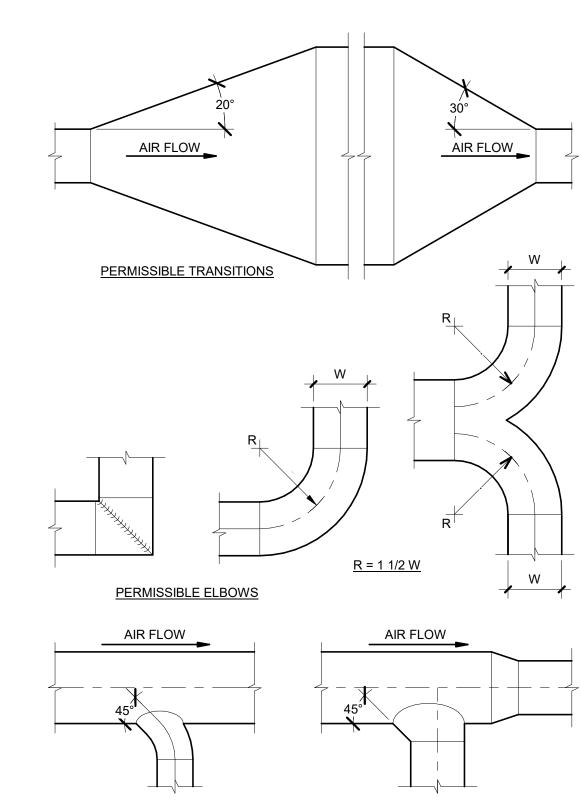


RECTANGULAR DUCT CONSTRUCTION FOR OUTDOOR INSTALLATION

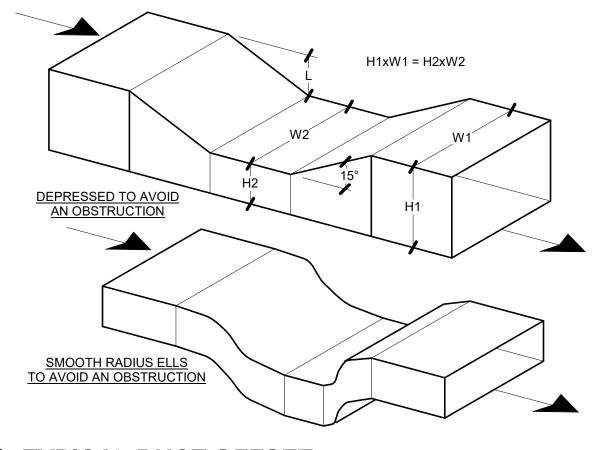




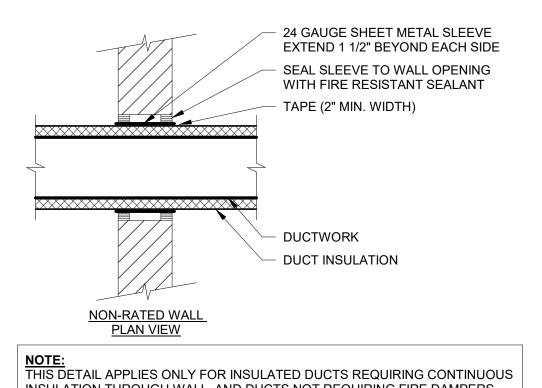








2 TYPICAL DUCT OFFSET
NO SCALE



INSULATION THROUGH WALL, AND DUCTS NOT REQUIRING FIRE DAMPERS.

3 DUCT PENETRATION THROUGH INTERIOR WALL
NO SCALE

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ENTRANC

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02/17/21 B3 FINAL

ANG Project No.: MBMV099170 3141900-113782.01 DATE: February 17, 2021 DESIGNED BY: AR

DRAWN BY: CHECKED BY: KML DO NOT SCALE DRAWINGS SHEET CONTENTS

MECHANICAL DETAILS

SHEET NO.:

M-501

									EXHAUST	FAN (EF) S	CHEDU	-E								
			AIR FLOW		MO	TOR	FAN			(2) MTG.	MA	XIMUM SO	UND	(1)	OPENII	NG (IN)				
MARK	MANUFACTURER, MODEL NUMBER	FAN TYPE	RATE (CFM)	ESP (IN WC)	WATTS	TYPE	SPEED	I	ELECTRICAL (VOLTS/PH)	HEIGHT (FT)	(3) (DB)	(4) SONES	INSTALL. TYPE	INTERLOCK WITH	LENGTH	WIDTH	ACCESSORIES	WEIGHT (LB)	LOCATION	REMARKS
EF-1	GREENHECK, SP-A110	4	75	0.30	16	TEAO	950 D	RECT	120 / 1	CEILING	32.0	0.9	В	RTU-1	8	6	1,8,14,24,26	20	RM. 102	(5)(6)
	FAN TY	/PE					005110010		MOTOR TY	/PE				LATION TYPE						
	CENTRIFUGAL		AXIA			ODP	OPEN DRIP			_		A _		T, FREE OUTLE						
1	SIDEWALL	8	ROOFTOP DO			TEFC			D FAN COOLEI)		В		T, DUCTED OUT						
2	INLINE	9	SIDEWALL PR	ROPELLER			EXPLOSION					С		NLET, FREE OUT						
3	UTILITY	10	TUBE AXIAL			INV	INVERTER [D		NLET, DUCTED (DUTLET					
4	CEILING	11	VANE AXIAL			TEAO	TOTALLY EN	ICLOSE	D AIR OVER			REMARK								
5	ROOFTOP UPBLAST	12	MIXED FLOW									(1)					UENCE OF OPERAT			
6	ROOFTOP HOODED	13	ROOFTOP FR	P UPBLAST	Γ							(2)					VEL OF INDICATED I	ROOM, TO TO	OP OF FAN OR \	VALL OPENIN
7	ROOFTOP FILTERED SUPPLY											(3)		WER LEVEL RA						
					SORIES							(4)			T IN A HEM	ISPHERICAL	FREE FIELD PER A	MCA 301.		
1	GRAVITY BACKDRAFT DAMPER	11	OUTLET WIRE	E GUARD		21	HOODED W	ALL CAF)			(5)	SINGLE SP							
2	MOTORIZED BACKDRAFT DAMPER	12	INLET FILTER	GUARD		22	HOODED RO	OF CAI	D			(6)	PROVIDE C	COMBINATION S	TARTER.					
3	WEATHERHOOD	13	MOTOR COVE	ĒR		23	HINGED RO	OF CUR	В											
4	WALL COLLAR	14	HOUSING INS	SULATION		24	INLET GRILL	.E												
5	MOTOR WIRE GUARD	15	BELT (OSHA)	WIRE GUAF	RD	25	BASE MOUN	ITED VII	BRATION ISOLA	ATORS										
6	MOTOR (OSHA) WIRE GUARD	16	INLET BELL			26	DUCT ADAP	TOR												
7	SHUTTER GUARD	17	INLET/OUTLE	T FLANGES	3	27	HANGING S	PRING I	SOLATORS											
8	FAN SPEED CONTROLLER	18	INLET VANE D	DAMPER		28	HANGING N	EOPRE	NE ISOLATORS											
9	NON-FUSED DISCONNECT SWITCH	19	EXTENDED LU	UBE LINES		29	FACTORY IN	ISULATI	ED ANGLED FIL	TER BOX										
10	INLET WIRE GUARD	20	MFR. ROOF C	I IDD								•								

						S	UPPLY FAI	N				СО	OLING C	OIL						GAS HEAT	ER		
									MIN. OUTDOOR	EAT	· (°F)	LAT	(°F)		TOTAL	SENS.				CAPACI	TY (MBH)	GAS	MIN.
MARK	MANUFA	ACTURER, M	IODEL NI	JMBER	NOM. CAP. (TON)	AIR FLOW (CFM)	ESP (IN WC)	TSP (IN WC)	AIR FLOW (CFM)	DB	WB	DB	WB	NO. OF STAGES	CAP. (MBH)	CAP. (MBH)	EAT (°F)	LAT (°F)	NO. OF STAGES	INPUT	OUTPUT	PRESS. (IN WC)	AFUI (%)
RTU-1	DAIKIN, DP	16GM240604	1		2	600	0.5	1.5	85	76.6	64.3	55.0	54.5	2	22.8	18.2	62	134	2	60	47	7	81
	ELECTRIC	HEATER			C	ONDENSER		RETUR	RN/EXHAUST	FAN		ELECT	RICAL										
			FILTER	REFRIG.	C AMB. TE							ELECT	RICAL				WEIGH						
MARK	ELECTRIC CAP. (KW)	NO. OF STAGES	FILTER TAG	REFRIG. TYPE			MIN. EER	RETUR AIR FLOW (CFM)		TSP (IN WC)	VOLTS	ELECT	RICAL MCA	МОСР	ACCESS	SORIES	WEIGH CUI (LI	RB	LOCA	TION		REMARKS	

ACCESSORIES

- 1 DRY BULB ECONOMIZER CONTROL STANDARD ROOF CURB 2 ENTHALPY ECONOMIZER CONTROL
- 3 POWER EXHAUST
- 4 DISCONNECT SWITCH
- 5 CONDENSER COIL GUARDS 6 15A GFI CONVENIENCE OUTLET
- VIBRATION ISOLATION ROOF CURB SEISMIC ROOF CURB 10 SUPPLY AIR SMOKE DETECTOR 11 RETURN AIR SMOKE DETECTOR
- 12 BAROMETRIC RELIEF

REMARKS:

(1) RTU SHALL BE FURNISHED WITH A BACNET COMPATIBLE COMMUNICATIONS CARD.

				ELEC	TRIC	WALL HEAT	ΓER (E	WH) SC	HEDULE	•				
	MANUFACTURER,		MOUNTING HEIGHT (1)	CAPA	CITY	ELECTRIC	CAL	HOUS	ING DIMEN	SIONS				
MARK	MODEL NUMBER	TYPE	· · ·	MBH	KW	VOLT / PHASE	AMPS	HEIGHT	DEPTH	WIDTH	CONTROL	ACCESSORIES	LOCATION	REMARKS
EWH-1	QMARK, AWH3150F	2	RECESSED	5.1	1.5	120 / 1	12.5	19	4	16	I	1,3	RM. 102	(1)
EWH-2	QMARK, AWH3180F	2	RECESSED	6.1	1.8	120 / 1	15	19	4	16	I	1,3	RM. 104	(1)
	TYPE		CONTRO	OL						ACCESS	ORIES			
1	COMMERCIAL	I	INTEGRAL THE	RMOSTA	T	1	DISCON	NECT SWIT	CH		4	TAMPER PROOF	F THERMOST	TAT
2	HEAVY DUTY COMMERCIAL	RT	REMOTE THER	MOSTAT		2	BLANK A	ND CORNE	R SECTION	IS	5	RELAY FOR REI	MOTE THERN	MOSTAT
						3	THERMO	OSTAT (NO	N-TAMPER	PROOF)				

(1) MANUFACTURER'S ARCHITECTURAL SERIES DESIGN.

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02/17/21 B3 FINAL

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 DATE: February 17, 2021

DESIGNED BY: AR DRAWN BY: CHECKED BY: KML

SHEET CONTENTS MECHANICAL SCHEDULES

M-601

									ME	CHANIC	AL PIPIN	G & VAL\	/E SCHEI	ULE							
								PIPING	ì						\	/ALVE					
SYSTEM			PIPING SIZE	MATERIAL	WALL	A	SME PIPIN	NG	PRESS.	FITTING		JOINT		CHECK	PRESS.	CONNECTION	BODY	TRIM			
MARK	SERVICE	ROOM TYPE	(IN)	TYPE	THICKNESS	STD	GRADE	TYPE	CLASS	TYPE	ENDS	TYPE	TYPE	VALVES	CLASS	TYPE	MATERIAL	MATERIA	VALVE EQUAL TO: [MANUFACTURER, MODEL]		REMARKS
G	NATURAL GAS - LOW PRESSURE (2 PSIG OR <)	OUTDOORS	1/2 TO 2	BS	SCH 40	A 53	В	E or S	150#	MI	PLAIN	TH	2BV	-	125#	THREADED	BRONZE	BRONZE	APOLLO, 77-100	PAINT PIPE	
CD	HVAC CONDENSATE DRAIN	OUTDOORS	3/4 TO 2	PVC	SCH 40	D 1785	-	-	-	PS	PLAIN	SV	-	-	-	-	-	-	-	-	
	MATERIAL TYPE	JOINT	TYPE								FITTING	TYPE							ASME PIPING TYPE		VALVE TYPE
BS	BLACK STEEL	BW BUTT WELD		CI	CAST IRON	(THREADE	ED) (ASME	B16.4 FO	R IRON, ASI	ME A 351 FO	R SS) (FLAN	IGED) (ASME	B16.1)	WC	WROUGHT	CAST (FLANGES,	ASME B16.5)	S	SEAMLESS	1BV ONE	PIECE FULL PORT BALL VALVE
SS	STAINLESS STEEL	SW SOCKET WELL	D	MI	MALLEABLE	E IRON (TH	IREADED)	(ASME B1	6.3)					FS	FORGED S	TEEL (FLANGES, A	SME B16.5)	E	ELECTRIC RESISTANCE WELDED	2BV TW	O PIECE FULL PORT BALL VALVE
GS	GALVANIZED STEEL	TH THREADED		WS	WROUGHT	STEEL (AS	STM A 234	FOR STEE	EL, ASTM A	403 FOR SS)				PS	PVC SOCK	ET		F	FURNACE BUTT WELDED	3BV THE	REE PIECE FULL PORT BALL VALVI
PE	POLYETHYLENE	FL FLANGED		PE	POLYETHY	LENE (AST	M D 2683	(SOCKET)	OR ASTM D	3261 (BUTT))			WCu	WROUGHT	COPPER (ASME E	16.22)			SBV STE	EL BODY BALL VALVE
CU	COPPER	SF SOCKET FUSI	ON	WW	WELDED W	ROUGHT S	STEEL (AS	STM A 774	FOR SS)											NGV NO	N-RISING STEM GATE VALVE
PVC	PVC	BF BUTT FUSION																		RGV RIS	ING STEM GATE VALVE
		SD SOLDERED																		OGV OSY	GATE VALVE
		BZ BRAZED																		BFV BUT	TERFLY VALVE
		SV SOLVENT WEI	LD																	PV PLU	IG VALVE

PIPING SYSTEM JOINING MATERIALS

- 1. PIPE-FLANGE GASKET MATERIALS: SUITABLE FOR CHEMICAL AND THERMAL CONDITIONS OF PIPING SYSTEM CONTENTS.
- 2. PIPE FLANGE GASKETS: ASME B16.21, NONMETALLIC, FLAT, ASBESTOS-FREE, 1/8IN MAXIMUM THICKNESS UNLESS SPECIFIED OTHERWISE.
- A. FULL-FACE TYPE: FOR FLAT-FACE, CLASS 125, CAST-IRON AND CAST-BRONZE FLANGES.
- B. NARROW-FACE TYPE: FOR RAISED-FACE, CLASS 250, CAST-IRON AND STEEL FLANGES.
- 3. FLANGE BOLTS AND NUTS: ASME B18.2.1, CARBON STEEL, UNLESS OTHERWISE INDICATED.
- 4. PLASTIC, PIPE-FLANGE GASKET, BOLTS, AND NUTS: TYPE AND MATERIAL RECOMMENDED BY PIPING SYSTEM MANUFACTURER, UNLESS OTHERWISE INDICATED.
- 5. SOLDER FILLER METALS: ASTM B 32, LEAD-FREE ALLOYS. INCLUDE WATER-FLUSHABLE FLUX ACCORDING TO ASTM B 813.
- 6. GENERAL DUTY BRAZING FILLER METALS: AWS A5.8, BCUP SERIES, COPPER-PHOSPHORUS ALLOYS UNLESS OTHERWISE INDICATED.
- 7. REFRIGERANT PIPING BRAZING FILLER METALS: AWS A5.8, BAG1, SILVER ALLOY UNLESS OTHERWISE INDICATED.
- 8. WELDING FILLER METALS: AWS D10.12 FOR WELDING MATERIALS APPROPRIATE FOR WALL THICKNESS AND CHEMICAL ANALYSIS OF STEEL PIPE.
- SOLVENT CEMENTS FOR JOINING PLASTIC PIPING: CPVC PIPING: ASTM F 493, PVC PIPING: ASTM D 2564. INCLUDE PRIMER ACCORDING TO ASTM F 656.

RE	MΑ	RK	S:	

- I) FITTING MATERIAL SHALL MATCH PIPING MATERIAL (EXCEPTION: MI FITTINGS SHALL BE USED FOR BS PIPING WHERE INDICATED).
- 2) PRESS. CLASS LISTED IS MIN. REQUIRED. PROVIDE GREATER PRESS. CLASS VALVE AND PIPE SYSTEM IF PRESS. CLASS INDICATED IS NOT AVAILABLE FOR GIVEN VALVE AND PIPE TYPE.

									AIR OL	TLET A	AND IN	LET SCI	HEDUL	E					
MARK	MANUFACTURER, MODEL NUMBER		APPLICATION	(1) MAX AIRFLOW (CFM)	OUTLET / INLET	TYPE	MOUNTING SYSTEM	(2) DAMPER	(3) FACE SIZE (IN)	NECK SIZE (IN)	(4) MAX NOISE LEVEL (NC)	PATTERN	MAX SP (IN WG)	FINISH	MATERIAL	(5) MOUNTING HEIGHT (IN)	ACCESSORIES	LOCATION	REMARKS
CD-1	TITUS, TMS		SUPPLY	225	1	9	1	NONE	24x24	8	24	4-WAY	0.1	W	STEEL	CEILING	24x24 LAY-IN PANEL	RM. 101	
SG-1	TITUS, 272RS		SUPPLY	100	3	2	2	ОВ	9x9	6x6	20	-	0.1	W	STEEL	CEILING		RM. 103 & 104	(6)
RG-1 RG-2	TITUS, 23RL TITUS, 50F		RETURN RETURN	100 375	3	3 8	2	OB NONE	8x8 12x12	6x6 10x10	20 20	-	0.1	W	STEEL ALUMINUM	CEILING CEILING	24x24 LAY-IN PANEL	RM. 103 / 104 RM. 101	(7)
OUT	LET/INLET			TY	DE						MOLINITIA	IG SYSTEM	1			DAM	DEP		FINISH
1	DIFFUSER	1	SINGLE DEFLECTION		- a	LOUVER	ED.		1	T-BAR CE		OOTOILI	<u> </u>		N	NONE	LIX	M	MILL
2	REGISTER	2	DOUBLE DEFLECTION		10	HOODED						ETE CEILIN	G		BF	BUTTERFLY			MFR. STANDARD WHITE
3	GRILLE	3	FIXED BLADE		11		RANSFER				R/MASONF				G	GRAVITY			MFR. SPECIAL COLOR
4	LOUVER	4	PERFORATED		12	BRICK					D DUCTW				MP	MOTORIZED I	PNEUMATIC		ANODIZED ALUMINUM
5	PENTHOUSE	5	LINEAR		13	PUNKAH			5	METAL P	ANEL WA	LL			ME	MOTORIZED E	ELECTRIC		PRIME COAT (FINAL COAT BY GC)
6	VENT	6	PLENUM SLOT		14	LAMINAF	₹		6	FLOOR					ОВ	OPPOSED BL	ADE		OTHER (SEE SPECIFICATIONS)
		7	PLAQUE		15	DRUM			7	ROOF					PB	PARALLEL BL	ADE		,
		8	EGGCRATE						8	EXTERIO	R STUD V	VALL			LL	LOW LEAKAG	E, INSUL.		

REMARKS:

- (1) SEE PLANS FOR ACTUAL INDIVIDUAL AIR QUANTITIES OF EACH DEVICE.
- (2) IF DAMPER IS SCHEDULED 'NONE', EACH SUPPLY, RETURN, AND EXHAUST DEVICE TO HAVE A BALANCE DAMPER IN THE DUCT BRANCH TAKE-OFF UNLESS AN ASSOCIATED VAV BOX SERVES A SINGLE DEVICE.
- (3) BORDER TYPES SHALL BE COMPATIBLE WITH CEILING OR WALL TYPES WHERE AIR DEVICE IS LOCATED. REFER TO ARCHITECTURAL PLANS AND ALL OTHER TRADES.
- (4) ALL GRILLES AND DIFFUSERS SHALL NOT EXCEED NOISE CRITERIA LISTED (BASED ON 10 DB ROOM ATTENUATION) AND AT THE SCHEDULED MAXIMUM STATIC PRESSURE DROP.
- (5) MOUNTING HEIGHT SHALL BE FROM FINISHED FLOOR TO BOTTOM OF OPENING.
- (6) INDIVIDUALLY ADJUSTABLE AIRFOIL BLADE WITH 3/4" SPACING. FRONT BLADES PARALLEL TO THE SHORT DIMENSION. INITIALLY SET BLADES FOR APPROXIMATELY 30 DEGREE THROW.
- (7) AIRFOIL BLADES PARALLEL TO THE LONG DIMENSION WITH FIXED 45 DEGREE DEFLECTION AND 3/4" SPACING.

	HVAC DUCT SO	CHEDULE						
		DUCT MATERIAL		PRESS.		LEAKAG	E CLASS	
		REFERENCE		CLASS	SEAL			
SYSTEM	TYPE	STANDARD	FINISH	(IN WC)	CLASS	RECT.	ROUND	REMARKS
SUPPLY AIR DUCT CONNECTED TO CONSTANT VOLUME AIR HANDLING UNITS	G90 GALV.	ASTM A 653	MILL PHOSPHATIZED	3	Α	12	6	
RETURN AIR DUCT CONNECTED TO CONSTANT VOLUME AIR HANDLING UNITS	G90 GALV.	ASTM A 653	MILL PHOSPHATIZED	3	Α	12	6	
EXHAUST AIR DUCT CONNECTED TO EXHAUST FANS	G90 GALV.	ASTM A 653	MILL PHOSPHATIZED	3	Α	12	6	

RECTANGULAR DUCT ELBOWS (COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 2-2, "RECTANGULAR ELBOWS.")

RADIUS TYPE RE 1 WITH MINIMUM 1.5 RADIUS-TO-DIAMETER RATIO.

RADIUS TYPE RE 3 WITH MINIMUM 1.0 RADIUS-TO-DIAMETER RATIO AND TWO VANES.

MITERED TYPE RE 2 WITH VANES COMPLYING WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 2-3, "VANES AND VANE RUNNERS," AND FIGURE 2-4, "VANE SUPPORT IN ELBOWS."

ROUND DUCT ELBOWS (COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 3-3, "ROUND DUCT ELBOWS.")

RADIUS TO DIAMETER RATIO: 1.5

ROUND ELBOWS, 12 INCHES AND SMALLER IN DIAMETER: STAMPED OR PLEATED

RECTANGULAR BRANCH DUCT CONFIGURATION (COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 2-6, "BRANCH CONNECTIONS.")

RECTANGULAR MAIN TO RECTANGULAR BRANCH: 45° ENTRY

(5) RETURN AIR DUCTS PASSING THROUGH OUTDOOR SPACES SHALL BE SEAL CLASS A (ASHRAE 90.1 - 2007).

RECTANGULAR MAIN TO ROUND BRANCH: SPIN IN

VELOCITY GREATER THAN 1500 FT/MIN: 45° LATERAL

ROUND BRANCH DUCT CONFIGURATION (COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE," FIGURE 3-4, "90 DEGREE TEES AND LATERALS," AND FIGURE 3-5, "CONICAL TEES." SADDLE TAPS ARE PERMITTED IN... VELOCITY 1500 FT/MIN AND LOWER: CONICAL TAP

- (1) PROVIDE PAINT GRIP TYPE DUCT WHERE DUCT IS EXPOSED AND INDICATED TO BE PAINTED.
- (2) INSTALL DUCT ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE" UNLESS OTHERWISE INDICATED.
- (3) INTERMEDIATE REINFORCEMENT MATERIAL SHALL MATCH DUCT MATERIAL.
- (4) SUPPLY AIR DUCTS PASSING THROUGH UNCONDITIONED OR OUTDOOR SPACES SHALL BE SEAL CLASS A (ASHRAE 90.1 2007).
- (6) SHEET METAL MATERIALS SHALL BE FREE OF PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS, AND OTHER IMPERFECTIONS. (7) LINED DUCTWORK MUST STILL BE WRAPPED TO MEET TOTAL INSULATING VALUE PER INSULATION SPECIFICATION AND SCHEDULE.

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02/17/21 B3 FINAL

R R H H

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 February 17, 2021

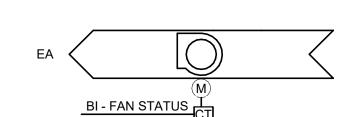
DESIGNED BY: AR DRAWN BY:

SHEET CONTENTS **MECHANICAL**

SCHEDULES

CHECKED BY: KML

Exhaust Fan Points List		Hardwai	re Point	s			Softwar	e Points	6		Show On Graphic
Point Name	Al	AO	BI	ВО	AV	BV	Loop	Sched	Trend	Alarm	-
Fan Status			1						1		1
Occupied/Unoccupied Mode								1			
Fan Failure										1	
Fan Runtime Exceeded										1	
Emergency Shutdown						1				1	1
Totals	0	0	1	0	0	1	0	1	1	3	2
Total Hardware	1				Total S	oftware	6				





RTU-1 Points List		Hardwaı	re Point	:s			Softwar	e Points	3		Show On
Point Name	Al	AO	BI	во	AV	BV	Loop	Sched	Trend	Alarm	Graphic
Supply Air Temp	1								1		1
Zone Temp	1								1		1
Supply Fan Enable			1						1		1
Cooling Enable			1						1		1
Heating Enable			1						1		1
Occupied/Unoccupied Mode								1			1
Emergency Shutdown Alarm						1				1	1
Totals	2	0	3	0	0	1	0	1	5	1	7
Total Hardware	5				Total S	oftware	8	•	-		-

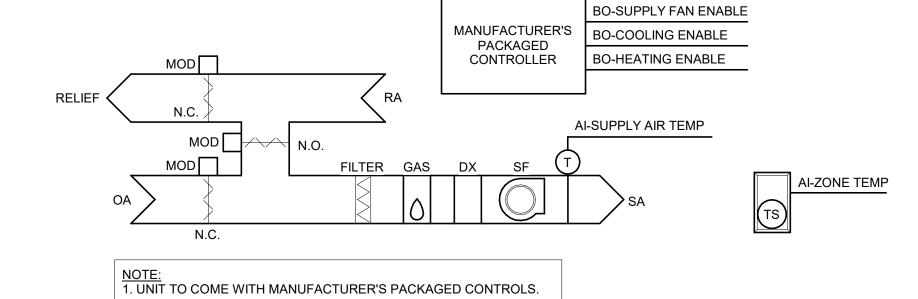
Gas Meter Points List		Hardwa	re Point	S			Softwar	e Points	3		Show On
Point Name	Al	AO	BI	во	AV	BV	Loop	Sched	Trend	Alarm	Graphic
Gas Flow Rate	1										
Usage Today									1		1
Usage Month-to-Date									1		1
Usage Year-to-Date									1		1
Meter Failure										1	
Totals	1	0	0	0	0	0	0	0	3	1	3
Total Hardware	1				Total S	oftware	4				-

Electric Meter Points List		Hardwai	re Point	S			Softwar	e Points	3		Show On
Point Name	Al	AO	BI	ВО	AV	BV	Loop	Sched	Trend	Alarm	Graphic
KW Pulse	1										
KW Demand									1		1
KW Peak Today									1		1
KW Peak Month-to-Date									1		1
KW Peak Year-to-Date									1		1
KWH Usage Today									1		1
MWH Usage Month-to-Date									1		1
MWH Usage Year-to-Date									1		1
Meter Failure										1	
Totals	1	0	0	0	0	0	0	0	7	1	7
Total Hardware	1				Total S	oftware	8	•	•		

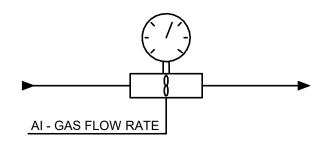
Water Meter Points List		Hardwaı	re Point	s		Show On					
Point Name	Al	AO	ВІ	ВО	AV	BV	Loop	Sched	Trend	Alarm	Graphic
Water Flow Rate	1										
Usage Today									1		1
Usage Month-to-Date									1		1
Usage Year-to-Date									1		1
Meter Failure										1	
Totals	1	0	0	0	0	0	0	0	3	1	3
Total Hardware	1				Total S	oftware	4				

Outside Air Points List		Hardwai	re Point	s			Softwar	e Points	3		Show On
Point Name	Al	AO	BI	ВО	AV	BV	Loop	Sched	Trend	Alarm	Graphic
Outside Air Temperature	1								1		1
Low Temp Today									1		1
Low Temp Month-to Date									1		1
Low Temp Year-to-Date									1		1
High Temp Today									1		1
High Temp Month-to Date									1		1
High Temp Year-to-Date									1		1
Sensor Failure - Temperature										1	
Totals	1	0	0	0	0	0	0	0	7	1	7
Total Hardware	1		•		Total S	oftware	8	•		-	•

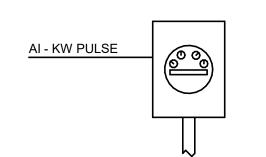
Kill Switch Points List		Hardwaı	re Point	S		;	Softwar	e Points	3		Show On
Point Name	Al	AO	ВІ	во	AV	BV	Loop	Sched	Trend	Alarm	Graphic
Emergency Kill Switch			1							1	1
Totals	0	0	1	0	0	0	0	0	0	1	1
Total Hardware	1				Total S	oftware	1				



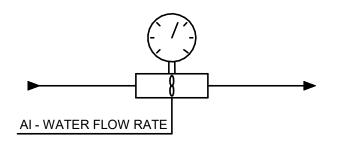




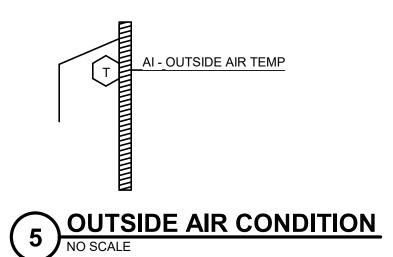


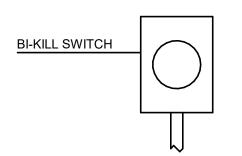


3 ELECTRIC METER NO SCALE









6 EMERGENCY VENTILATION KILL SWITCH NO SCALE

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GUARD ENTRANCE

BATTLE CREE BATTLE CREE 02/17/21 B3 FINAL

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01

February 17, 2021 DESIGNED BY: AR DRAWN BY: CHECKED BY: KML

SHEET CONTENTS CONTROL **SCHEMATICS**

M-801

SITE SYMBOLS ELECTRIC HANDHOLE ELECTRIC METER **ELECTRIC TRANSFORMER** FLOOD LIGHT DOUBLE LIGHT POLE LIGHT POLE GENERAL SYMBOLS #/E-### DETAIL NUMBER / SHEET NUMBER KEYED NOTE, USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL IT IS SHOWN WITH. LINE TYPE KEY NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE) ONE-LINE EQUIPMENT ENCLOSURE —— CON —— SITE UNDERGROUND CONDUIT E — SITE UNDERGROUND ELECTRIC

		FCU	FAN COIL UNIT
		GC GFI	GENERAL CONTRACTOR GROUND FAULT INTERRUPTER
IRF	ALARM SYMBOLS	GND	GROUND FAULT INTERROPTER GROUND
		GWH	GAS WATER HEATER
P	FIRE ALARM MASS NOTIFICATION CONTROL PANEL	HP	HORSEPOWER
	FIDE ALADM DILL CTATION	HVAC HWB	HEATING, VENTILATION, AIR CONDITIONING HOT WATER BOILER
	FIRE ALARM PULL STATION	HWP	HOT WATER PUMP
##		IEWH	INSTANTANEOUS ELECTRIC WATER HEATER
	FIRE ALARM SPEAKER/STROBE, (##) IS CANDELA RATING	IMC	INTERMEDIATE METALLIC CONDUIT
		IWH	INSTANTANEOUS WATER HEATER
>	INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR	J-BOX LBS	JUNCTION BOX POUNDS
		LFS	LIGHTING FIXTURE SCHEDULE
		MAX	MAXIMUM
RFC	EPTACLE SYMBOLS	MC	MECHANICAL CONTRACTOR
		MDF	MAIN DISTRIBUTION FRAME
60"	DUPLEX RECEPTACLE TEXT INDICATES MOUNTING HEIGHT	MDP MIN.	MAIN DISTRIBUTION PANEL MINIMUM
€	DOUBLE DUPLEX RECEPTACLE	MNS	MASS NOTIFICATION SYSTEM
		MTD	MOUNTED
	ABOVE COUNTER DUPLEX RECEPTACLE	MTG	MOUNTING
	SPECIFIC USE RECEPTACLE. NEMA CONFIGURATIONAS	MTS NIC	MANUAL TRANSFER SWITCH NOT IN CONTRACT
	NOTED ON DRAWINGS AND/OR SCHEDULE.	NL	NIGHT LIGHT
CEPT	ACLE NOTATIONS:	NL/EL	NIGHT LIGHT AND EMERGENCY LIGHT
GFCI	DENOTES GROUND FAULT INTERRUPTER OUTLETS	NTS	NOT TO SCALE
ΝP	DENOTES WEATHER PROOF OUTLETS	OC	ON CENTER
		PH PNL	PHASE PANEL
		PVC	POLYVINYL CHLORIDE
\	14/41/ 01/4POLO	RCP	RADIANT CEILING PANEL
4CE	WAY SYMBOLS	RECPT	RECEPTACLE
_		REF REQ'D	REFRIGERATOR REQUIRED
J)	JUNCTION BOX - CEILING MOUNTED	RF	RETURN FAN
J	JUNCTION BOX - WALL MOUNTED	RGS	RIGID GALVANIZED STEEL CONDUIT MAY ALSO BE REFERENCED AS RMC OR GRC
\exists	HANDHOLE	RMC	RIGID METAL CONDUIT
9		S/N	SOLID NEUTRAL
		SE SEC D	SERVICE ENTRANCE
		SEC-P SP	SECURITY PANEL SUMP PUMP
OTC	R & EQUIPMENT CONNECTION	SS	STAINLESS STEEL
	OLS	SW	SWITCH
IVID	OLO	TBR	TO BE REMOVED

ELECTRICAL CONNECTION TO EQUIPMENT AND MOTORS,

CONTRACTOR FURNISHING MOTOR OR EQUIPMENT. REFER

TO SPECIFICATIONS AND EQUIPMENT WIRING SCHEDULE

SIZED PER NEC. COORDINATE REQUIREMENTS WITH

FOR ADDITIONALWORK ASSOCIATED WITH MOTOR OR

VARIABLE FREQUENCY MOTOR CONTROLLER

MOTOR STARTING SWITCH WITH OVERLOADS

MOTOR STARTING SWITCH WITHOUT OVERLOADS

NON-FUSIBLE DISCONNECT SWITCH

FUSIBLE DISCONNECT SWITCH

MANUAL TRANSFER SWITCH

EQUIPMENT.

GENERAL NOTES:

ELECTRICAL ABBREVIATIONS

NEMA 3R RATING

ARCHITECT / ENGINEER

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE

AIR HANDLING UNIT

CIRCUIT BREAKER

CIRCULATION PUMP

CONDENSATION RETURN

DIGITAL CONTROL PANEL

ELECTRICAL CONTRACTOR

ENCLOSED CIRCUIT BREAKER

ELECTRICAL METALLIC TUBING

EXISTING - RELOCATED LOCATION

TEMPERATURE CONTROL PANEL

TCP

TYP

VS

TYPICAL

VERSUS

WATTS

XFMR TRANSFORMER

V VOLTS

UNIT COOLER

UNIT HEATER

UNDERGROUND

UNO UNLESS NOTED OTHERWISE

VFD VARIABLE FREQUENCY DRIVE

WCC WATER COOLED CONDENSER

WATER HEATER

WL WET LOCATION LISTED

WEATHERPROOF

CABINET UNIT HEATER

DUCT HEATER

EXHAUST FAN

EMERGENCY

FUSED

FIRE ALARM

FORCED AIR FURNACE

DOOR OPERATOR

DISCONNECT

DRAWING

ABOVE ACCESSIBLE CEILING

AIR COOLED CONDENSING UNIT

COMPUTER ROOM AIR CONDITIONER

ELECTRICAL-TO-OPTICAL CONVERTER

AMPERES

ALTERNATE

BUILDING

BREAKER

CONDUIT

CIRCUIT

3R

A/E

AHU

ALT

BLDG

BRKR

CKT

CP

CRAC

CUH

DDC

DISC

DO

DWG

E/O

EM

ERLD

FΑ

- 1. REFER TO THE G SERIES DRAWINGS FOR CODE ANALYSIS PLANS, INFORMATION AND NOTES.
- 2. SEE CIVIL DRAWINGS C-700 SERIES FOR ADDITIONAL WORK. ADDITIONAL WORK INCLUDES, BUT IS NOT LIMITED TO POLE AREA LIGHTING, MOTORIZED GATES, VEHICLE BARRIER, SIGN LIGHTING AND ALL ASSOCIATED HANDHOLES AND RACEWAYS.
- 3. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE DETAILS OF WORK, VERIFY DIMENSIONS IN THE FIELD, AND ADVISE THE ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE PERFORMING ANY WORK.
- 4. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES) AND ABA (ARCHITECTURAL BARRIERS ACT).
- 5. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS AND FLOORS. MAKE RATED PENETRATIONS AS REQUIRED. SEAL ALL RATED PENETRATIONS AS IDENTIFIED IN DIVISION 1 REQUIREMENTS.
- 6. FLUSH MOUNT ALL TOGGLE SWITCHES, RECEPTACLE, FIRE ALARM PULL STATIONS AND FIRE ALARM NOTIFICATION DEVICES AT HEIGHTS ABOVE FINISHED FLOOR AS SHOWN IN THE DEVICE MOUNTING HEIGHT DETAIL, EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
- 7. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL SCHEDULES PROVIDED. BALANCE THE LOAD ON PANELS AS EVENLY AS POSSIBLE BETWEEN EACH PHASE. COMMON NEUTRALS MAY **NOT** BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- 8. A #12 GREEN INSULATED GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS TO ALL RECEPTACLES.
- 9. CONCEAL ALL CONDUIT IN WALLS,AND/OR ABOVE CEILING. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN FIRE PANEL ROOM 103 MAY BE EXPOSED ON BUILDING STRUCTURE.
- 10. COORDINATE AND CO-LOCATE WALL MOUNTED RECEPTACLE LOCATIONS WITH TECHNOLOGY (VOICE/DATA, CATV, FIDS, ETC) OUTLETS SHOWN ON THE T-SERIES DRAWINGS UNLESS OTHERWISE NOTED, EACH TECHNOLOGY OUTLET SHALL BE LOCATED WITHIN 24"OF ITS ASSOCIATED RECEPTACLE. ASSOCIATED RECEPTACLE SHALL BE DEFINED AS THE RECEPTACLE NEAREST THE LOCATION OF, AND AT THE SAME HEIGHT AS, THE TECHNOLOGY OUTLET WHEN MULTIPLE RECEPTACLES ARE SHOWN ON A WALL.
- 11. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL DETECTORS WITH LUMINAIRES, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
- 12. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS. PRIOR TO ELECTRICAL INSTALLATION THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- 13. ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
- 14. CONTRACTOR TO PROVIDE SUITABLE MECHANICAL PROTECTION AROUND ALL CONDUITS STUBBED OUT FROM FLOORS, WALLS OR CEILINGS DURING CONSTRUCTION TO PREVENT BENDING OR DAMAGING OF STUB OUTS DUE TO CARELESSNESS WITH CONSTRUCTION EQUIPMENT.
- 15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- 16. SCCR RATINGS LISTED FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.

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IR NATIONAL GUARD T MAIN BASE ENTRANCE

> BATTLE CREEK AI BATTLE CREEK, N

02/17/21 B3 FINAL

ANG Project No.: MBMV099170

M&H NO.: 3141900-113782.01

DATE: February 17, 2021

M&H NO.: 3141900-113782.0

DATE: February 17, 2021

DESIGNED BY: ARG

DRAWN BY: KLU

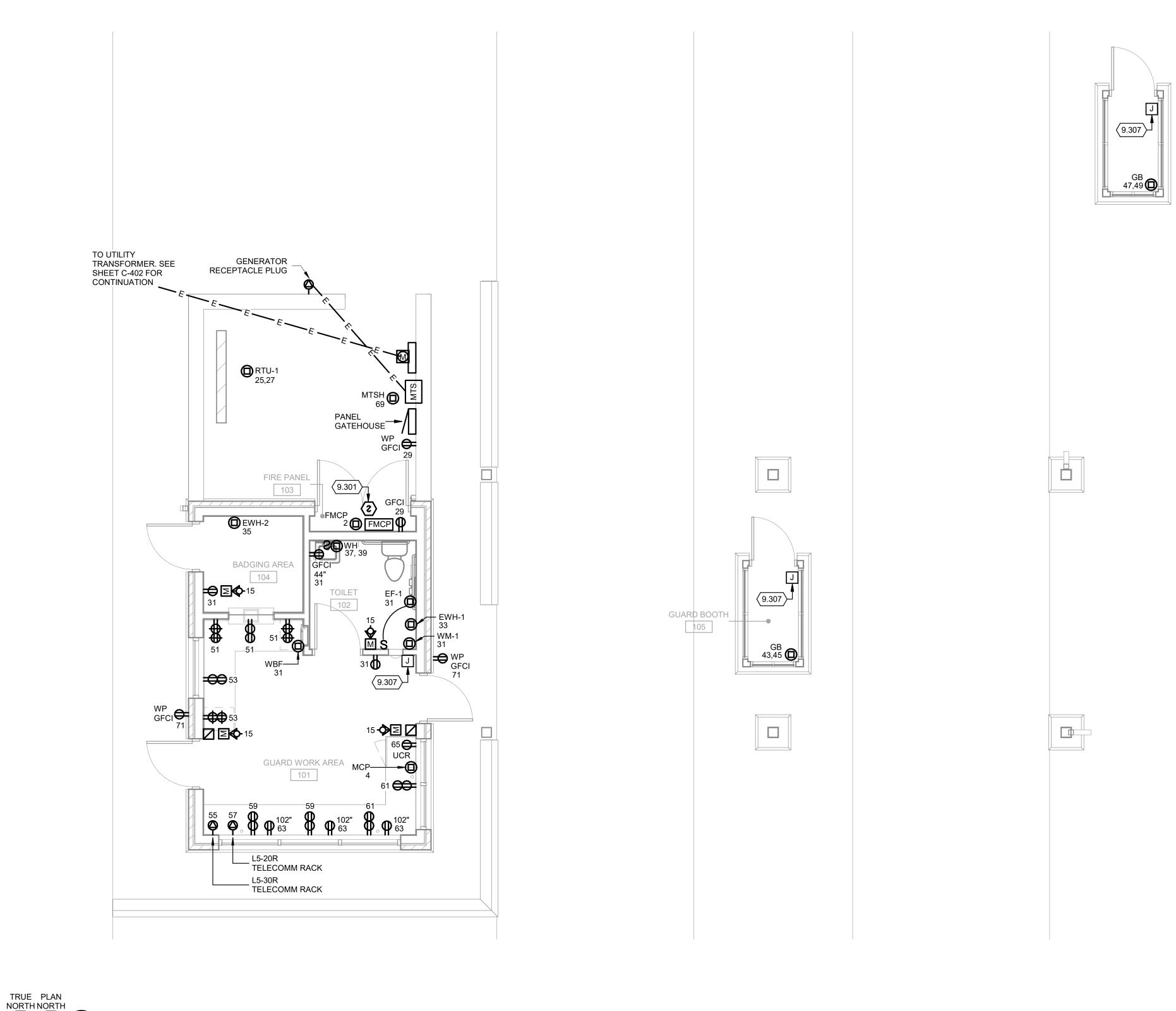
CHECKED BY: JRH

SHEET CONTENTS
NOTES, SYMBOLS &

ABBREVIATIONS

DO NOT SCALE DRAWINGS

SHEET NO



GATEHOUSE FIRST FLOOR POWER AND FIRE ALARM PLAN

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AN AIR NATIONAL RUCT MAIN BASE

CRE CRE

1. ALL DEVICES SHOWN SHALL BE FED FROM GATEHOUSE PANEL. CIRCUIT NUMBERS ARE INDICATED ADJACENT TO DEVICES/CONNECTIONS.

2. SEE CIVIL C-400 SERIES DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.

POWER GENERAL NOTES:

KEYED NOTES

9.301 WALL MOUNT SMOKE DETECTOR DIRECTLY ABOVE FIRE ALARM MASS NOTIFICATION PANEL.

9.307 ACTIVE VEHICLE BARRIER ACTIVATION BUTTON. PROVIDE ALL RACEWAYS AND WIRING AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH SUBMITTED AND APPROVED ACTIVE VEHICLE BARRIER EQUIPMENT.

ANG Project No.: MBMV099170

M&H NO.: 3141900-113782.01 DATE: February 17, 2021 DESIGNED BY: ARG

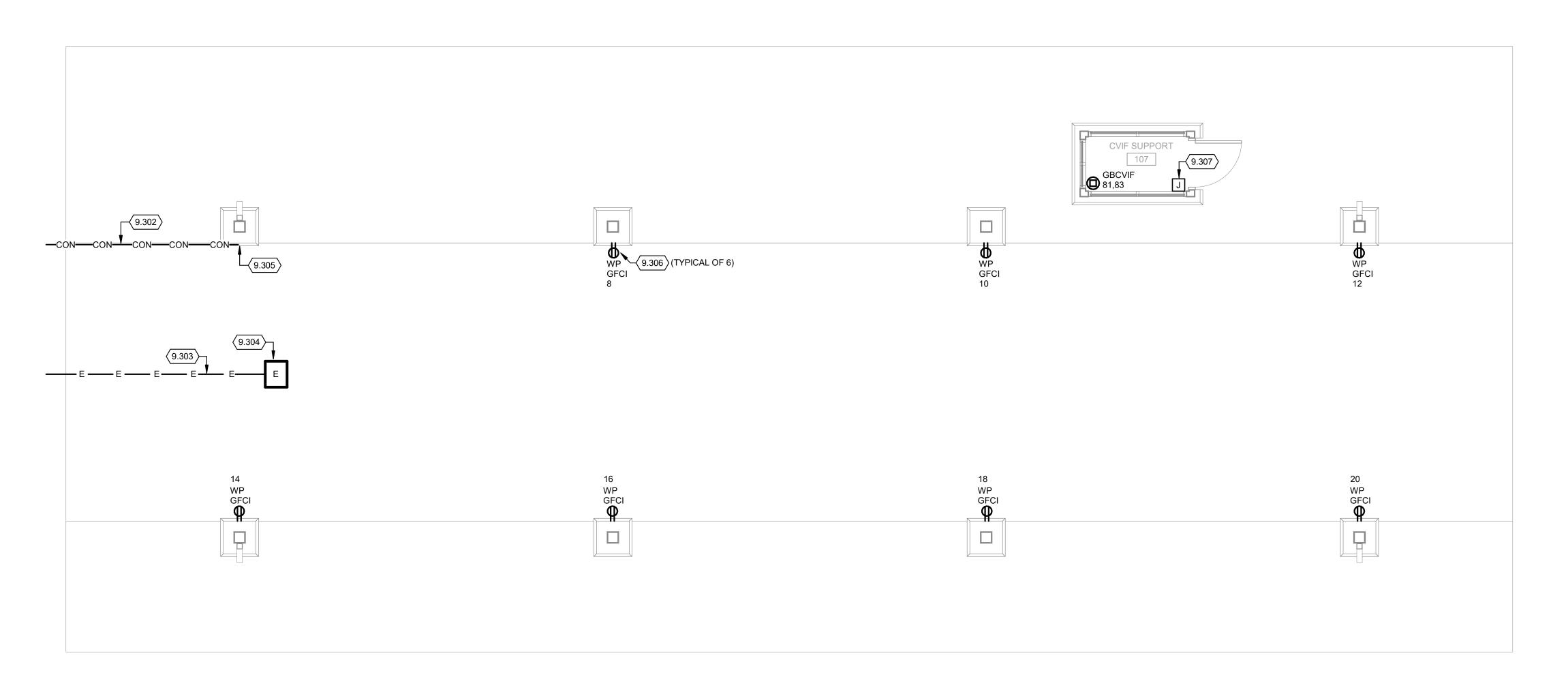
02/17/21 B3 FINAL

DRAWN BY: KLU CHECKED BY: JRH DO NOT SCALE DRAWINGS

SHEET CONTENTS GATEHOUSE POWER AND FIRE ALARM

SHEET NO.:

PLAN





POWER GENERAL NOTES:

- 1. ALL DEVICES SHOWN SHALL BE FED FROM GATEHOUSE PANEL. CIRCUIT NUMBERS ARE INDICATED ADJACENT TO DEVICES/CONNECTIONS.
- 2. SEE CIVIL C-400 SERIES DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.

KEYED NOTES

- 9.302 (1) 2" CONDUIT. ROUTE UNDERGROUND BACK TO GATEHOUSE PANEL.
- 9.303 (2) 1" CONDUITS. ROUTE UNDERGROUND BACK TO GATEHOUSE. ROUTE ONE CONDUIT TO TELECOM RACK LOCATION AND ONE CONDUIT TO GATEHOUSE
- 9.304 PROVIDE 13"X24" POLYMER CONCRETE HANDHOLE WITH INTERIOR DIVIDER. HANDHOLE SHALL BE 24" DEEP, TIER 22 RATING (ENCLOSURE AND COVER), AND GRAY. ONE CONDUIT SHALL ENTER INTO EACH HANDHOLE PARTITION. PROVIDE WEATHERPROOF RECEPTACLE IN ONE PARTITION, MOUNTED TO HANDHOLE SIDE WALL AND (2)#8 AND #8 GROUND BACK TO THE GATEHOUSE PANEL, CIRCUIT #67. FEED RECEPTACLE FROM GFCI TYPE CIRCUIT BREAKER.
- 9.305 SURFACE MOUNT CONDUIT TO BRICK WRAPPING AND COLUMN BASE. STUB CONDUIT UP TO 12" ABOVE FINISHED PAVEMENT. CAP AND SEAL END OF
- 9.306 MOUNT AT 24" ABOVE FINISHED PAVEMENT. RECESS RECEPTACLE BOX WITHIN MASONRY COLUMN BASE. RECEPTACLE FEED SHALL ENTER INTO COLUMN HOLLOW TUBE CENTER AND BE COMPLETELY CONCEALED.
- 9.307 ACTIVE VEHICLE BARRIER ACTIVATION BUTTON. PROVIDE ALL RACEWAYS AND WIRING AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH SUBMITTED AND APPROVED ACTIVE VEHICLE BARRIER EQUIPMENT.

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AN AIR NATIONAL RUCT MAIN BASE

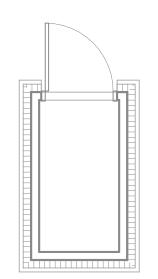
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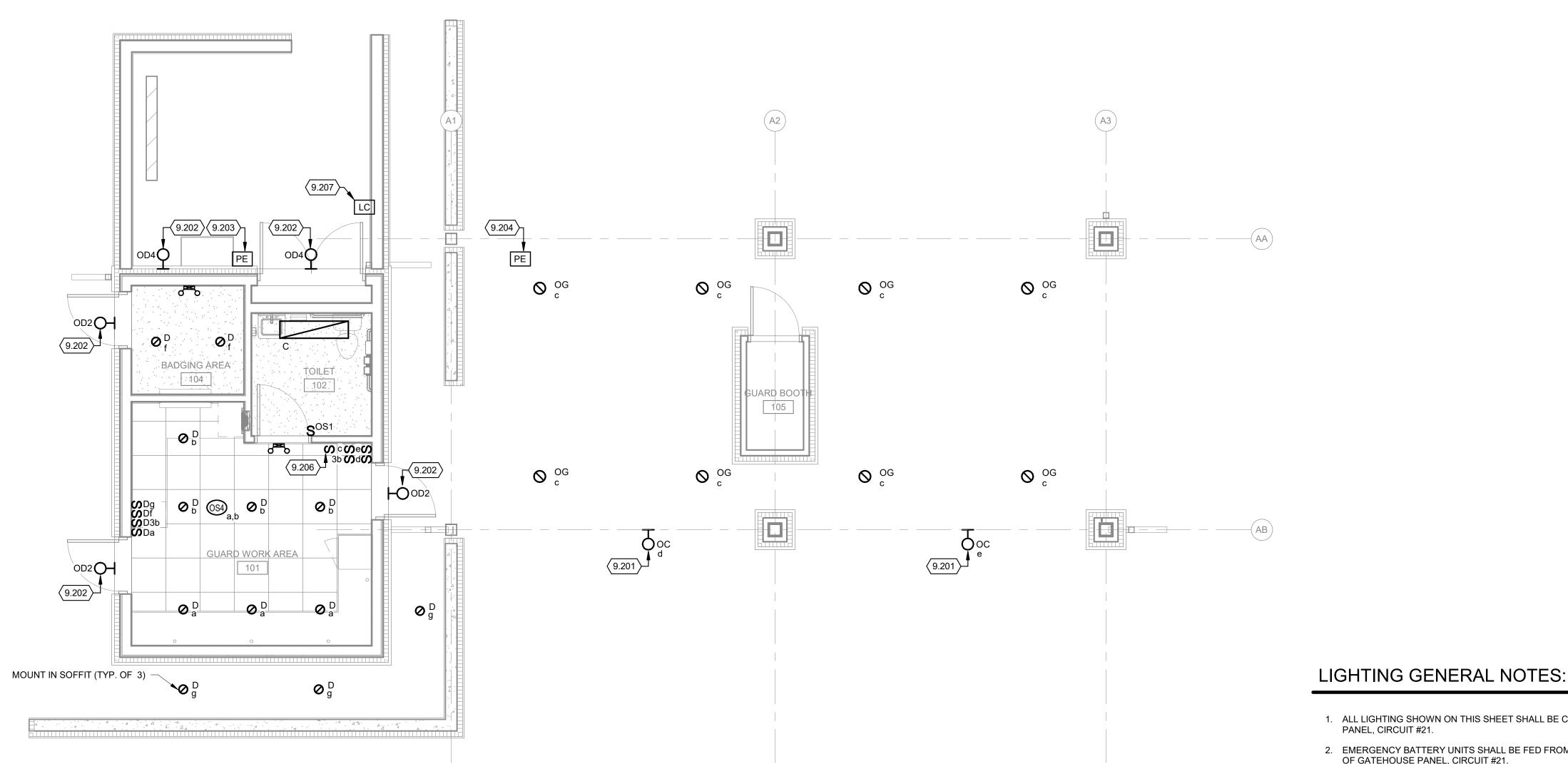
ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 DATE: February 17, 2021

DESIGNED BY: ARG DRAWN BY: KLU CHECKED BY: JRH

DO NOT SCALE DRAWINGS SHEET CONTENTS CVIF POWER PLAN

SHEET NO.:





TRUE PLAN NORTH NORTH GATEHOUSE FIRST FLOOR LIGHTING PLAN Mead & Hunt, Inc. 2440 Deming Way Middleton, WI 53562 phone: 608-273-6380 meadhunt.com



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AN AIR NATIONAL RUCT MAIN BASE

02/17/21 B3 FINAL

CRE CRE

- 1. ALL LIGHTING SHOWN ON THIS SHEET SHALL BE CIRCUITED TO GATEHOUSE PANEL, CIRCUIT #21.
- 2. EMERGENCY BATTERY UNITS SHALL BE FED FROM UN-SWITCHED PORTION OF GATEHOUSE PANEL, CIRCUIT #21.

KEYED NOTES

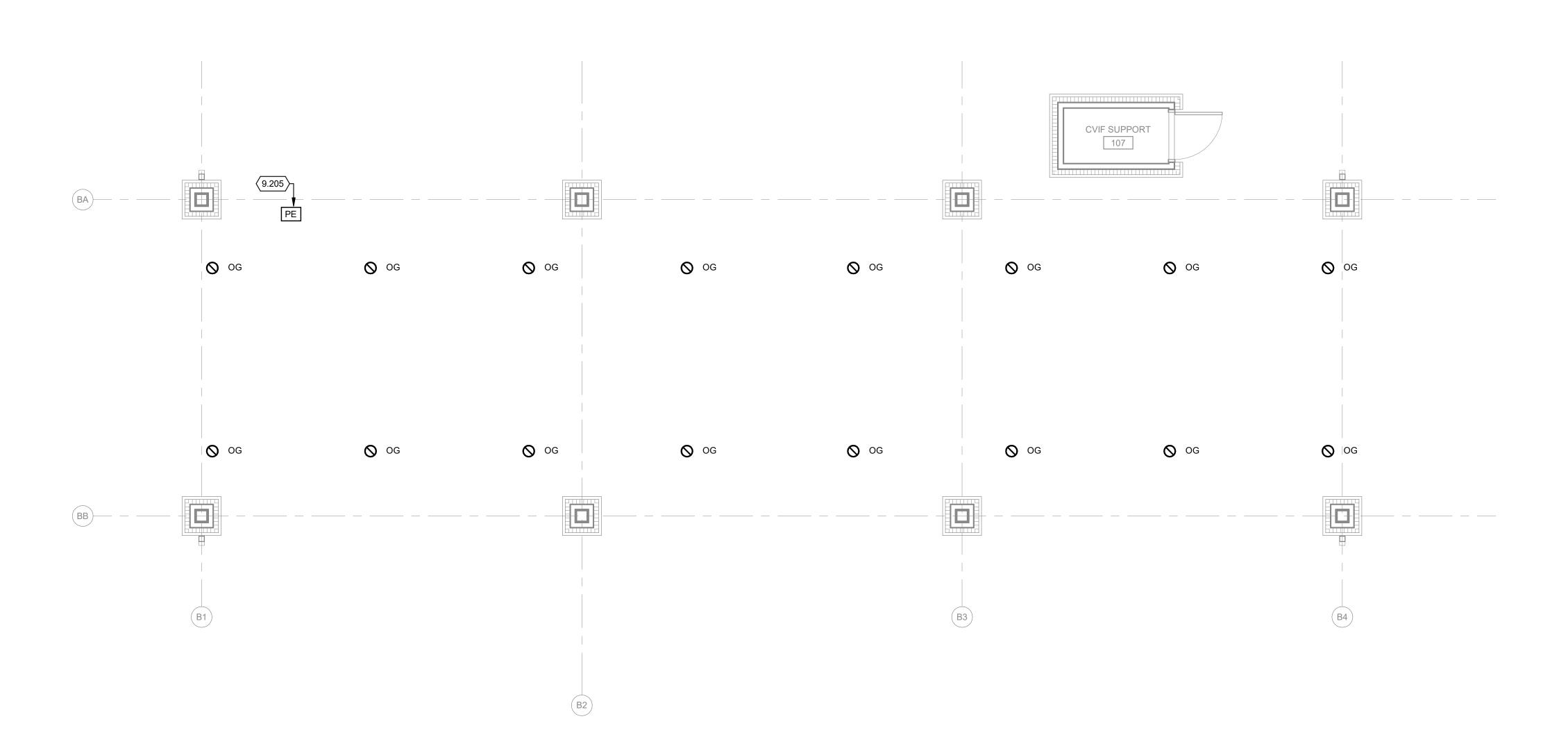
- 9.201 SURFACE MOUNT FIXTURE TO UNDERSIDE OF CANOPY.
- 9.202 MOUNT FIXTURE AT 8'-0" ABOVE FINISHED PAVEMENT TO BOTTOM OF FIXTURE HOUSING.
- 9.203 MOUNT PHOTOCELL TO UNDERSIDE OF SOFFIT AND AIM NORTH. PHOTOCELL SHALL SERVE SITE POLE FIXTURES. SEE DETAIL 5/E501 FOR MORE INFORMATION.
- 9.204 MOUNT PHOTOCELL TO UNDERSIDE OF SOFFIT AND AIM NORTH. WIRE SWITCH LEGS 'C' AND 'G" THROUGH PHOTOCELL.
- 9.206 SWITCH SHALL CONTROL TYPE 'OG' FIXTURES IN COMMERCIAL VEHICLE INSPECTION CANOPY SHOWN ON SHEET E-122.
- 9.207 CONTACTOR SHALL SERVE SITE POLE FIXTURES. SEE DETAIL 5/E-501 FOR MORE INFORMATION.

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 February 17, 2021 DESIGNED BY: ARG

DRAWN BY: CHECKED BY: JRH DO NOT SCALE DRAWINGS

SHEET CONTENTS GATEHOUSE LIGHTING PLAN

SHEET NO.:





LIGHTING GENERAL NOTES:

1. ALL LIGHTING SHOWN ON THIS SHEET SHALL BE CIRCUITED TO GATEHOUSE PANEL, CIRCUIT #23. LIGHTING CIRCUIT SHALL BE ROUTED THROUGH SWITCH LOCATED IN GATEHOUSE, SHOWN ON SHEET E-121 AND PHOTOCELL MOUNTED AT THE CVIF CANOPY.

KEYED NOTES

9.205 MOUNT PHOTOCELL TO UNDERSIDE OF SOFFIT AND AIM NORTH. PHOTOCELL SHALL SERVE COMMERCIAL VEHICLE INSPECTION CANOPY TYPE 'OG' FIXTURES.

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GUARD ENTRANCE MICHIGAN AIR NATIONAL CONSTRUCT MAIN BASE

EEK ANGB EEK, MICHIGAN

CRE CRE

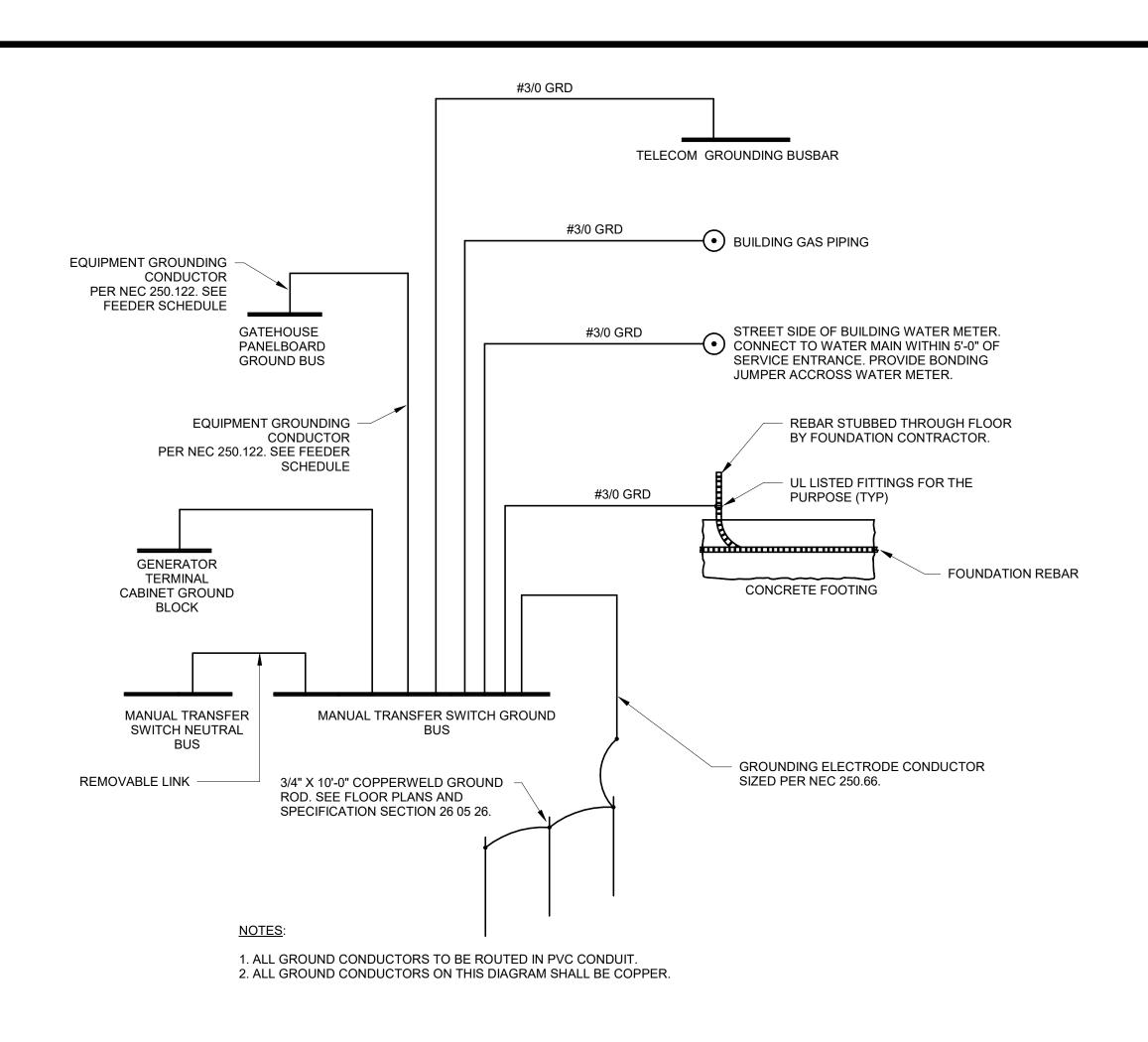
02/17/21 B3 FINAL

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01

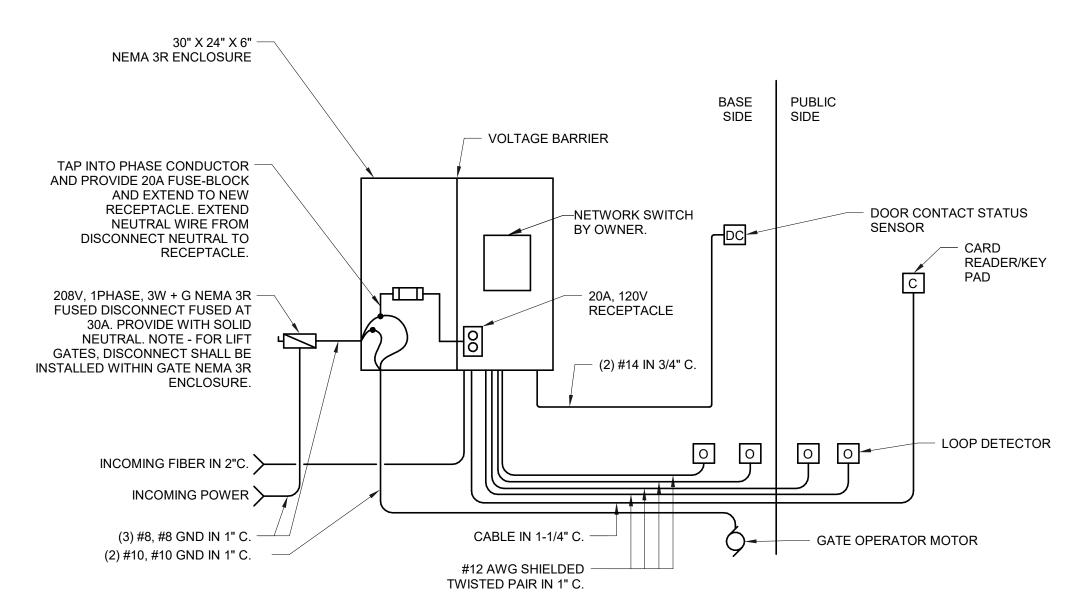
DATE: February 17, 2021 DESIGNED BY: ARG DRAWN BY: KLU

CHECKED BY: JRH DO NOT SCALE DRAWINGS

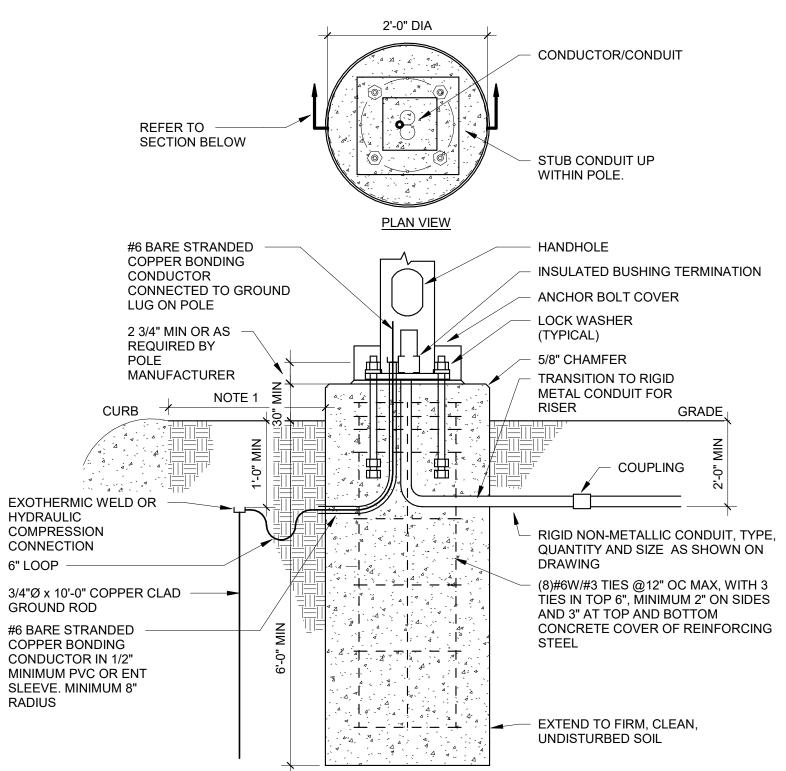
SHEET CONTENTS CVIF LIGHITNG PLAN



GROUNDING SYSTEM DETAIL



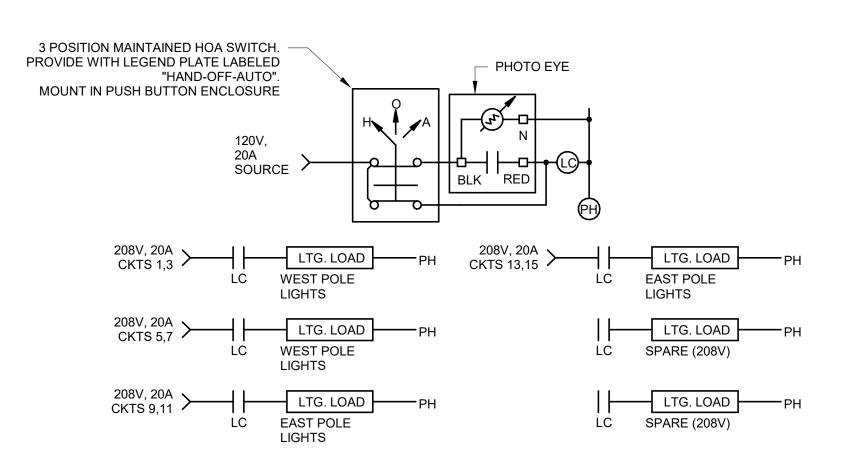
GATE OPERATOR DETAIL



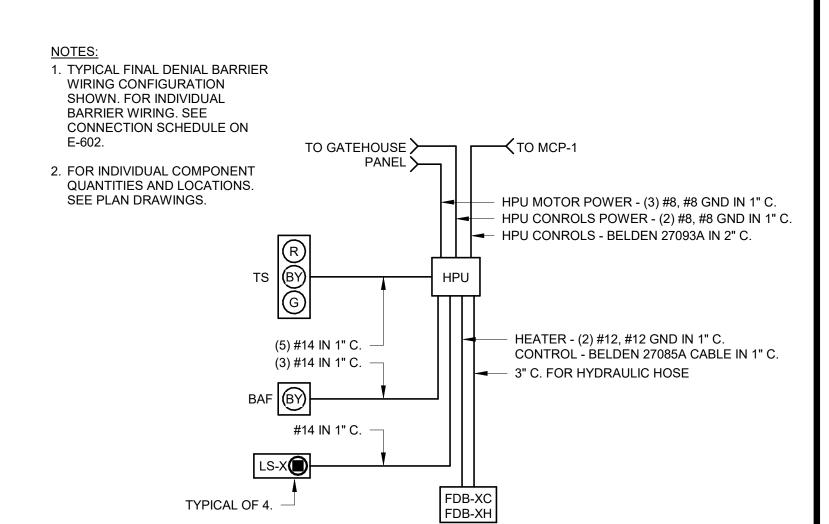
SECTION VIEW

- NOTES
 1. MOUNT 3'-0" FROM CURB OR CENTER IN ISLAND (IF APPLICABLE OR 1'-0" FROM SIDEWALK EDGE. 2. CONTRACTOR SHALL USE TEMPLATE FURNISHED WITH POLE TO SET ANCHOR BOLTS. CENTER
- ON CONCRETE BASE. 3. ANCHOR BOLTS SHALL BE ORIENTED PARALLEL TO THE CURB LINE. 4. NON-SHRINK GROUT BETWEEN POLE AND BASE. PROVIDE A CHANNEL THROUGH GROUT FOR POLE INTERIOR DRAINAGE.
- 5. EXPOSED SURFACES TROWELLED SMOOTH. 6. ANCHOR BOLTS FOR POLE AS REQUIRED BY MANUFACTURER.
- 7. CONCRETE BASE PER SPECIFICATIONS.

POLE BASE DETAIL NO SCALE



LIGHTING CONTACTOR WITH HOA AND PHOTO EYE

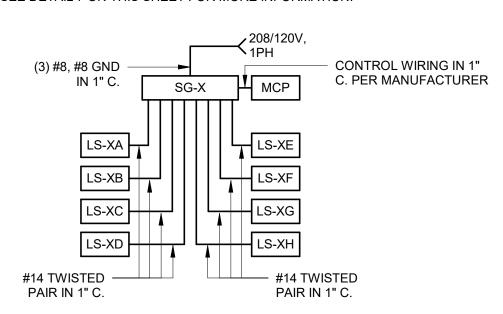


HYDRAULIC BARRIER CONNECTION DIAGRAM

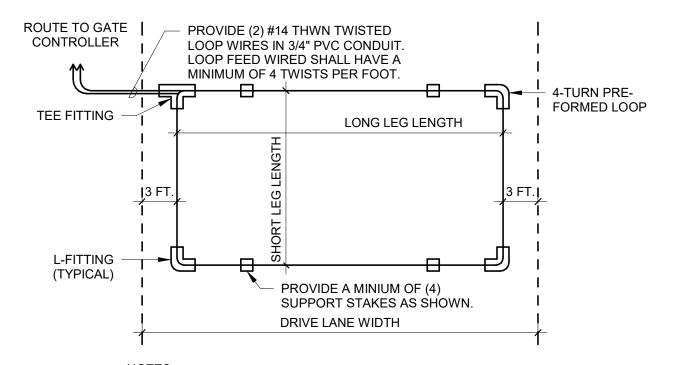
1. FOR INDIVIDUAL COMPONENT QUANTITIES AND LOCATIONS, SEE PLAN DRAWINGS.

2. SEE DETAIL 3 ON THIS SHEET FOR LOOP DETECTOR DETAILS.

3. SEE DETAIL 7 ON THIS SHEET FOR MORE INFORMATION.



2 SLIDING GATE CONNECTION DIAGRAM NO SCALE



1. LOOP SHALL BE BURIED A MAXIMUM OF 2" BELOW ASPHALT. 2. INSPECT LOOP WIRING TO ENSURE THERE ARE NO NICKS OR FRACTURES IN WIRING PRIOR TO COVERING WITH ASPHALT. ANY WIRE WITH NICKS OR FRACTURES SHALL BE REPLACED. 3. DO NOT SPLICE LOOP WIRE.

4. SHORT LEG LENGTH SHALL BE 6'-0".

5. LONG LEG LENGTH SHALL BE DRIVE LANE WIDTH MINUS 6'-0". 6. INSTALL PER MANUFACTURER REQUIREMENTS.

\ LOOP DETECTOR DETAIL

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CRE CRE

02/17/21 B3 FINAL

ANG Project No.: MBMV099170 3141900-113782.01 DATE: February 17, 2021

DESIGNED BY: ARG DRAWN BY: CHECKED BY: JRH DO NOT SCALE DRAWINGS

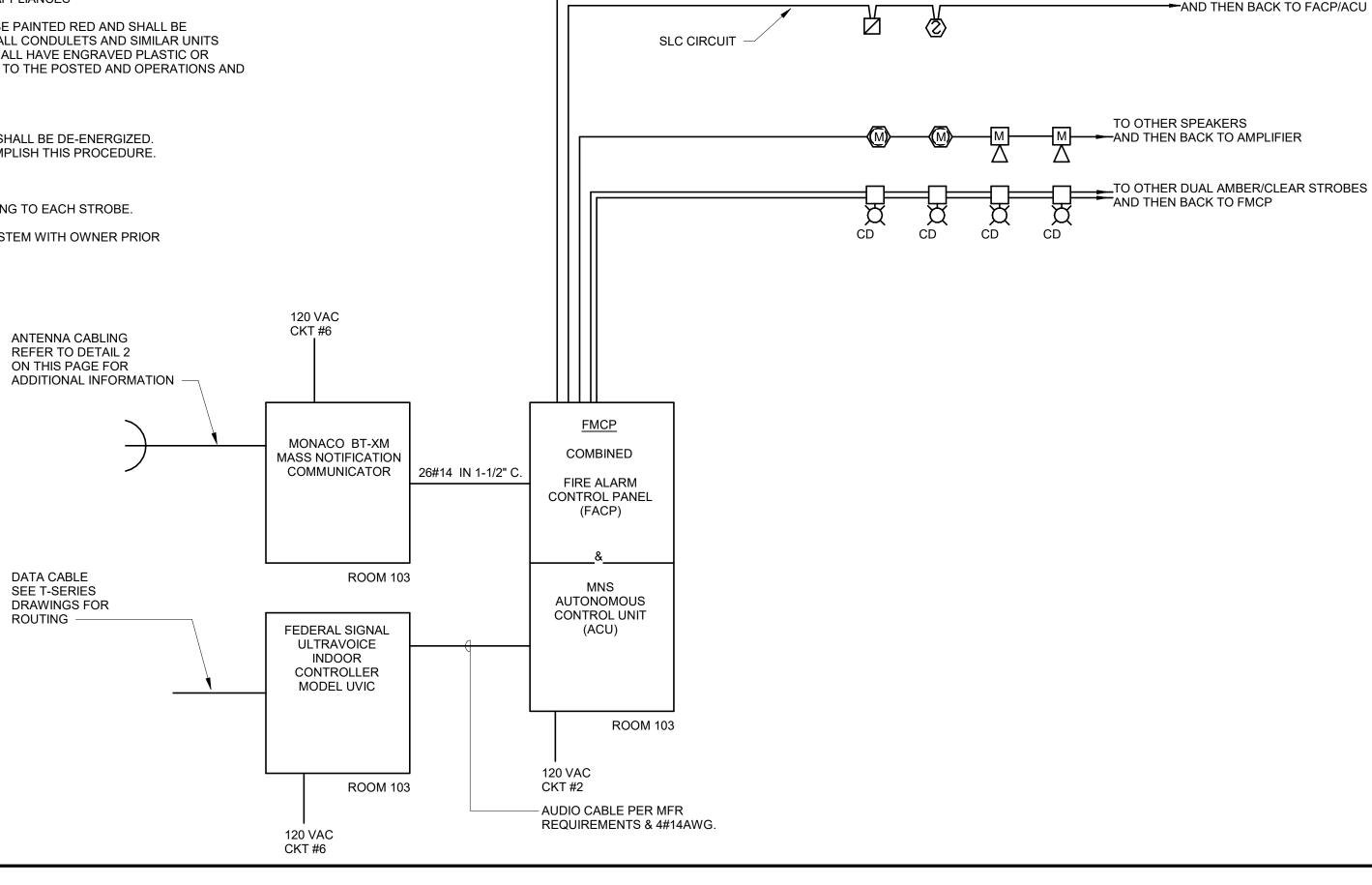
SHEET CONTENTS DETAILS



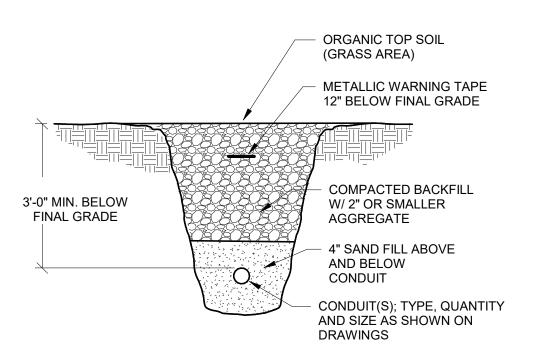
- 1. FIRE ALARM CONTROL UNIT AND MASS NOTIFICATION AUTONOMOUS CONTROL UNIT (FMCP) IS A COMBINED UNIT OF THE FIRE ALARM CONTROL PANEL (FACP) AND THE MNS AUTONOMOUS CONTROL UNIT (ACU). THE UNIT COULD USE ONE OR MORE ENCLOSURES.
- 2. ALL DETECTION AND ALARM CIRCUITS SHALL BE OF THE SUPERVISED CLASS A, STYLE D FOR INITIATING CIRCUITS AND A SUPERVISED CLASS A, STYLE Z FOR NOTIFICATION APPLIANCE CIRCUITS. SIGNALING LINE CIRCUITS (SLC) SHALL BE CLASS A, STYLE 2α.
- 3. SEE PLANS FOR SPECIFIC CANDELA (CD) RATINGS ON NOTIFICATION APPLIANCES
- 4. ALL JUNCTION, TERMINAL, AND PULLING BOXES AND COVERS SHALL BE PAINTED RED AND SHALL BE IDENTIFIED WITH ENGRAVED LABELS BY CIRCUIT THAT IT CONTAINS. ALL CONDULETS AND SIMILAR UNITS SHALL BE PAINTED RED. ALL DETECTION AND TERMINAL DEVICES SHALL HAVE ENGRAVED PLASTIC OR METALLIC ALPHANUMERIC IDENTIFICATION, WHICH SHALL BE KEYED TO THE POSTED AND OPERATIONS AND MAINTENANCE INSTRUCTIONS.
- 5. ALL WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
- 6. WHEN THE MNS IS ANNOUNCING, AUDIBLE AND VISUAL FIRE ALARMS SHALL BE DE-ENERGIZED. CONTRACTOR SHALL SUPPLY ALL NECESSARY EQUIPMENT TO ACCOMPLISH THIS PROCEDURE.
- 7. ALL SPEAKER AND STROBE CIRCUITS SHALL BE SUPERVISED.

FIRE ALARM RISER DIAGRAM

- 8. STROBES SHALL BE DUAL AMBER/CLEAR TYPE WITH SEPARATE CABLING TO EACH STROBE.
- 9. COORDINATE REQUIRED ALARMS MONITORED AT BASE HEAD END SYSTEM WITH OWNER PRIOR TO PROGRAMMING.



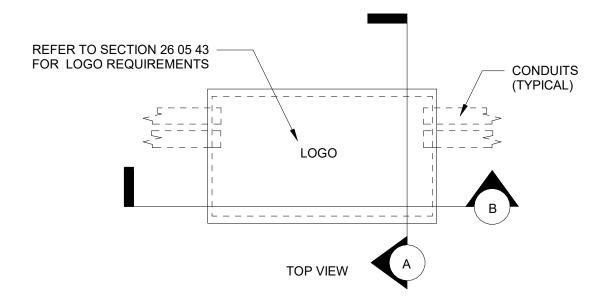
24V POWER

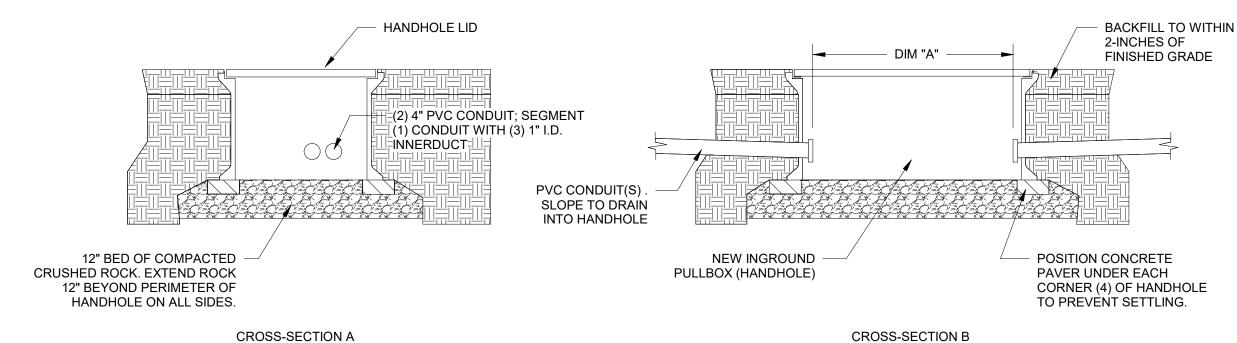


UNDERGROUND CONDUIT

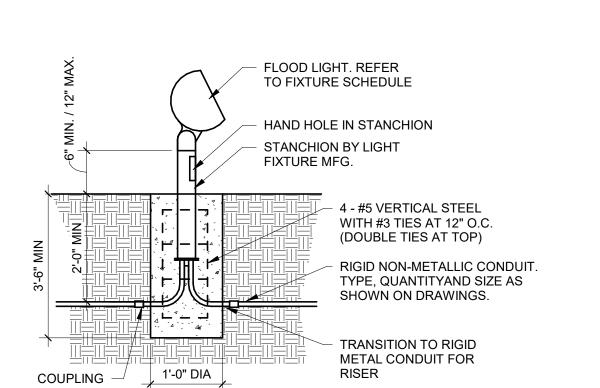
DETAIL NOTES:

- 1. REFER TO SECTION 26 05 43 FOR HANDHOLE SPECIFICATION.
- 2. PROVIDE BUSHING ON ALL CONDUIT ENDS
- 3. PROVIDE MOUSE HOLE AS BOTTOMIN BASE (IN BOTTOM SECTION IF STACKED)
- 4. CONDUIT DEPTH SHOWN IS APPROXIMATE. FIELD VERIFY TO PROVIDE SLOPE IN CONDUIT AWAY FROM BUILDING.
- 5. SEAL DUCTS/CONDUIT WITH 3M SCOTCHCAST 4416 TO PREVENT ENTRY OF WATER INTO THE DUCTS. SEAL OCCUPIED DUCTS FOLLOWING CABLE INSTALLATION.

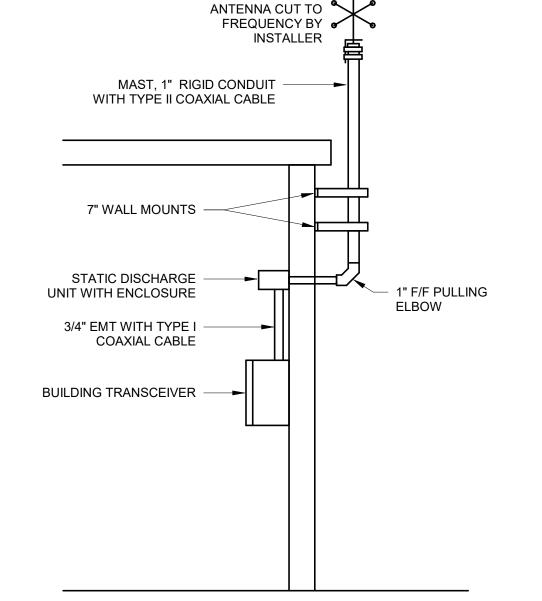




UNDERGROUND BOX (HANDHOLE) DETAIL



FLOOD LIGHT BASE DETAIL STANCHION
NO SCALE



OMNI DIRECTIONAL

TYPICAL ANTENNA INSTALLATION DETAIL
NO SCALE

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TO OTHER EQUIPMENT.



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02/17/21 B3 FINAL

ANG Project No.: MBMV099170 3141900-113782.01 DATE: February 17, 2021 DESIGNED BY: ARG

CHECKED BY: JRH DO NOT SCALE DRAWINGS SHEET CONTENTS

SHEET NO.:

DRAWN BY:

DETAILS

OPTIONS/ACCESSORIES CODE LISTING:

- 01 WET LOCATION LISTED
- 02 BUTTON TYPE PHOTOCONTROL
- 03 TOP AND SIDE VISORS

BALLAST/DRIVER CODE LISTING: (SEE SPECIFICATIONS)

- A LED DIMMABLE POWER SUPPLY (0-10V).
- B LED DIMMABLE POWER SUPPLY (TRAILING EDGE).
- C LED DIMMABLE POWER SUPPLY 0-10V, 0% TO 100%.
- D LED NON-DIMMABLE POWER SUPPLY

GENERAL NOTES:

ONLY BALLAST SERIES IS INDICATED ON THIS SCHEDULE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION. EACH FIXTURE SUBMITTAL SHALL BE PROVIDED WITH FULL BALLAST AND LAMP INFORMATION.

2. EC SHALL VERIFY AND COORDINATE ALL LUMINAIRE TRIMS/FLANGES WITH RESPECTIVE CEILING TYPES SCHEDULED AND/OR SUBMITTED BY THE GC PRIOR TO ORDERING OF THE LUMINAIRES. SCHEDULE INDICATES TRIM TYPES BASED ON THE GENERIC CEILING INFORMATION AVAILABLE AT THE TIME BIDDING DOCUMENTS WERE ISSUED AND DOES NOT REFLECT ACTUAL THICKNESS OF GYPSUM WALL BOARD OR PLASTER CEILING OR EXACT GRID TYPE SPECIFIED BY THE ARCHITECT.

KEYED NOTES:

- PROVIDE FIXTURE WITH INTEGRAL, INTERNAL SURGE PROTECTION. SURGE PROTECTION SHALL BE 10kV LINE-TO-GROUND AND 10kV LINE-TO-LINE PROTECTION.
- 2. PROVIDE WITH 25'-0" TALL, BRONZE, 5" DIAMETER SQUARE STEEL POLE WITH INTEGRAL HANDHOLE AND VIBRATION DAMPER. POLE SHALL BE RATED FOR 100MPH WINDS AND 30% GUST FACTOR WITH LUMINAIRE TYPE/CONFIGURATION AS SHOWN ON PLANS. SEE DETAIL 4/E-501 FOR POLE BASE INFORMATION.
- PROVIDE WITH BRONZE DIRECT ARM MOUNTING BRACKET. COORDINATE MOUNTING BRACKET WITH
- 4. SEE DETAIL 3/E-502 FOR MOUNTING INFORMATION.
- 5. SEE DETAIL 4/E-502 FOR POLE BASE INFORMATION.
- 6. PROVIDE COMPLETE ASSEMBLY OF 30' BONZE POLE, INTEGRAL LED ROTATING FIXTURE AND INTERNAL WINCH SYSTEM TO RAISIE/LOWER FLAG. SEE CIVIL PLANS FOR POLE BASE INFORMATION.

LUMINAIRE SCHEDULE

SEE SPECIFICATION FOR ADDITIONAL INFORMATION REGARDING LUMINAIRE AND INSTALLATION REQUIREMENTS. PROVIDE OPTIONS AND ACCESSORIES REFERENCED BY THE COLUMN TITLED "OPTIONS/ACCESSORIES". MANUFACTURERS LISTED ACCEPTABLE SHALL MEET NOTE: SEE SPECIFICATION FOR ADDITIONAL INFORMATION REGARDING LOWINAINE AND INSTALLATION REGARDING LOWINAINE AND INSTALLATI **ABBREVIATIONS:** GWB = GYPSUM WALL BOARD P = PENDANT R = RECESSED V = VARIES ES = EXPOSED STRUCTURE PLAS = PLASTER S = SURFACE W = WALL MOUNTED

		LG = LAY-IN GRID	JRE PLAS = PLASTER S = SURFACE W = WALL MOUNTED PL = POLE MOUNTED UNV = UNIVERSAL VOLTAGE											
DES.	MANUFACTURER	CATALOG SERIES	DESCRIPTION	LAMP DATA	VOLTAGE	BALLAST/ DRIVER	MOUNT	CEILING TYPE	FIXTURE DEPTH	LED SYSTEM INPUT WATTAGE	LED DELIVERED LUMENS	OPTIONS / ACCESSORIES	ACCEPTABLE MANUFACTURERS	KEYED NOTE
OA2L	CREE	OSQA-2ME-Z-40K-UL-BZ	LED AREA/ROADWAY LUMINAIRE (SINGLE HEAD) - TYPE II DISTRIBUTION	4000K LED	208	А	PL	-	25"	53	6,900	01 H	HUBBELL	1,2,3,5
OA2M	CREE	OSQA-2ME-B-40K-UL-BZ	LED AREA/ROADWAY LUMINAIRE (SINGLE HEAD) - TYPE II DISTRIBUTION	4000K LED	208	А	PL	-	25"	86	11,400	01 H	HUBBELL	1,2,3,5
OA2H	CREE	OSQA-2ME-K-40K-UL-BZ	LED AREA/ROADWAY LUMINAIRE (SINGLE HEAD) - TYPE II DISTRIBUTION	4000K LED	208	A	PL	-	25"	130	17,000	01 H	HUBBELL	1,2,3,5
OA3L	CREE	OSQA-3ME-Z-40K-UL-BZ	LED AREA/ROADWAY LUMINAIRE (SINGLE HEAD) - TYPE III DISTRIBUTION	4000K LED	208	А	PL	-	25"	53	6,900	01 H	HUBBELL	1,2,3,5
OA3M	CREE	OSQA-3ME-B-40K-UL-BZ	LED AREA/ROADWAY LUMINAIRE (SINGLE HEAD) - TYPE III DISTRIBUTION	4000K LED	208	А	PL	-	25"	86	11,400	01 H	HUBBELL	1,2,3,5
ОАЗН	CREE	OSQA-3ME-K-40K-UL-BZ	LED AREA/ROADWAY LUMINAIRE (SINGLE HEAD) - TYPE III DISTRIBUTION	4000K LED	208	A	PL	-	25"	130	17,000	01 H	HUBBELL	1,2,3,5
OA4L	CREE	OSQA-4ME-Z-40K-UL-BZ	LED AREA/ROADWAY LUMINAIRE (SINGLE HEAD) - TYPE IV DISTRIBUTION	4000K LED	208	A	PL	-	25"	53	6,900	01 H	HUBBELL	1,2,3,5
OA2H	CREE	OSQA-4ME-K-40K-UL-BZ	LED AREA/ROADWAY LUMINAIRE (SINGLE HEAD) - TYPE IV DISTRIBUTION	4000K LED	208	A	PL	-	25"	130	17,000	01 H	HUBBELL	1,2,3,5
OB1	CREE	SAME AS TYPE 'OA2L'	LED AREA/ROADWAY LUMINAIRE (TWIN HEAD) - TYPE II / TYPE II DISTRIBUTION (OAL2/OAL2) - FIXTURE HEADS MOUNTED AT 90 DEGREES	4000K LED	208	A	PL	-	25"	53 53	6,900 6,900	01 H	HUBBELL	1,2,3,5
OB2	CREE	SAME AS TYPE 'OA4L'	LED AREA/ROADWAY LUMINAIRE (TWIN HEAD) - TYPE IV/TYPE IV DISTRIBUTION (OA4L/OA4L) - FIXTURE HEADS MOUNTED AT 90 DEGREES	4000K LED	208	A	PL	-	25"	53 53	6,900 6,900	01 H	HUBBELL	1,2,3,5
ОВ3	CREE	SAME AS TYPE 'OA2L'	LED AREA/ROADWAY LUMINAIRE (TWIN HEAD) - TYPE II/TYPE II DISTRIBUTION (OA2L/OA2L) - FIXTURE HEADS MOUNTED AT 180 DEGREES	4000K LED	208	A	PL	-	25"	53 53	6,900 6,900	01 H	HUBBELL	1,2,3,5
OB4		SAME AS TYPE 'OA2L' AND 'OA4L'	LED AREA/ROADWAY LUMINAIRE (TWIN HEAD) - TYPE II/TYPE IV DISTRIBUTION (OA2L/OA4L) - FIXTURE HEADS MOUNTED AT 180 DEGREES	4000K LED	208	A	PL	-	25"	53 53	6,900 6,900	01 H	HUBBELL	1,2,3,5
OB5	CREE	SAME AS TYPE 'OA2M'	LED AREA/ROADWAY LUMINAIRE (TWIN HEAD) - TYPE II/TYPE II DISTRIBUTION (OA2M/OA2M) - FIXTURE HEADS MOUNTED AT 180 DEGREES	4000K LED	208	A	PL	-	25"	86 86	11,400 11,400	01 H	IUBBELL	1,2,3,5
OB6		SAME AS TYPE 'OA2H' AND 'OA2M'	LED AREA/ROADWAY LUMINAIRE (TWIN HEAD) - TYPE II/TYPE II DISTRIBUTION (OA2H/OA2M) - FIXTURE HEADS MOUNTED AT 180 DEGREES	4000K LED	208	A	PL	-	25"	130 86	17,000 11,400	01 H	HUBBELL	1,2,3,5
OB7		SAME AS TYPE 'OA2M' AND 'OA3M'	LED AREA/ROADWAY LUMINAIRE (TWIN HEAD) - TYPE II/TYPE III DISTRIBUTION (OA2M/OA3M) - FIXTURE HEADS MOUNTED AT 180 DEGREES	4000K LED	208	A	PL	-	25"	86 86	11,400 11,400	01 F	HUBBELL	1,2,3,5
OB8			LED AREA/ROADWAY LUMINAIRE (TWIN HEAD) - TYPE II/TYPE II DISTRIBUTION (OA2H/OA2H) - FIXTURE HEADS MOUNTED AT 180 DEGREES	4000K LED	208	A	PL	-	25"	130 130	17,000 17,000	01 H	HUBBELL	1,2,3,5
ОС	SIGNAL-TECH	TCL2222RG-175	OPEN/CLOSE, GREEN/RED LED TRAFFIC CONTROL IGHTING	INTEGRAL LED	120	D	S	ES	2-1/2"	25	-		APPROVED EQUAL	_
OD2		ENC-E01-LED-E1-BL2-BZ- BBB(120)	LED WALL MOUNTED FIXTURE WITH ROUND DIE CAST ALUMINUM HOUSING, FULLY SHIELDED LIGHT SOURCE WITH CLEAR TEMPERED GLASS LENS. TYPE II DISTRIBUTION.	4000K LED	120	D	W	-	8-1/8"	25	2,613	01 L	ITHONIA ICGRAW EDISON	_
OD4	INVUE	ENC-E01-LED-E1-BL4-BZ- BBB(120)	LED WALL MOUNTED FIXTURE WITH ROUND DIE CAST ALUMINUM HOUSING, FULLY SHIELDED LIGHT SOURCE WITH CLEAR TEMPERED GLASS LENS. TYPE IV DISTRIBUTION.	4000K LED	120	D	W	-	8-1/8"	25	2,613	01 L	ITHONIA #CGRAW EDISON	
OF	ILLUMINATOR	ILH30IH	30' FLAG POLE WITH INTEGRAL, ROTATING LED FLAG LIGHT	4000K LED	120	D	PL	-	-	-	-		APPROVED EQUAL	6
OG	PORTFOLIO	LD6B-20-D010 EU6B-1020-80-40 6LB-W-1-H	6" LED ROUND RECESSED, OPEN DOWNLIGHT WITH SELF-FLANGED TRIM. WIDE BEAM DISTRIBUTION, 75 DEGREE BEAM	4000K LED	120	D	R	GWB	5-1/2"	22	2,000		GOTHAM PRESCOLITE	_
ОН		NFFLD-S-C70-D-UNV-66-	MONUMENT SIGN LED FLOOD LIGHT	4000K LED	208	A	PL	-	7-1/2"	20	2,700	01, 02, 03 B	BEGA	- 4
С	METALUX		1'x4', LED FLANGED LENSED TROFFER WITH COLD ROLLED STEEL HOUSING, ACRYLIC LENS, ALUMINUM DOOR FRAME AND MATTE WHITE	4000K LED	120	С	R	DW	5-5/8"	20.1	2,084	L	ITHONIA	_
D	PORTFOLIO	I D/R-15 DE010	FINISH. 4" LED ROUND RECESSED, OPEN DOWNLIGHT WITH SELF-FLANGED TRIM. MEDIUM BEAM DISTRIBUTION, 50 DEGREE BEAM	4000K LED	120	E	R	VARIES	5-1/2"	15.5	1,500	01 G	OAYBRITE GOTHAM PRESCOLITE	-
														-

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02/17/21 B3 FINAL

M&H NO.: 3141900-113782.01 February 17, 2021

DESIGNED BY: ARG DRAWN BY: KLU CHECKED BY: JRH

SHEET CONTENTS SCHEDULES

	ELECTRICAL EQUIPM	ENT WIRING SCHEDULE	
STARTER/DISCONNECT TYPE:			KEY:
MX - MANUAL MOTOR SWITCH	2SP - 2 SPEED, 2 WINDING	ECB - ENCLOSED CIRCUIT BREAKER	MFR - MANUFACTURER
MS - MANUAL MOTOR STARTER (W/OVERLOAD RELAYS)	SW - 2 SPEED, 1 WINDING		F- FUSED
YD - WYE- DELTA	CS - COMBINATION MAGNETIC CONTROLLER		NF - NON-FUSED
FV - FULL VOLTAGE	FS - FUSED SWITCH		EC - ELECTRICAL CONTRACTOR
SS - REDUCED VOLTAGE, SOLID STATE	VFD - VARIABLE FREQUENCY DRIVE		MC - MECHANICAL CONTRACTOR
RE - REVERSING	RVS - REDUCED VOLTAGE (MAGNETIC)		PC - PLUMBING CONTRACTOR

ILL - ILL VERSIN	<u> </u>		INVO INEL	JOOLD VO	JETAGE (IVI	NONE HO								10 1 2	OIVIDII 10 0	ONTIVACTOR					
					LOAD			EQUIF	PMENT		BRANCH	H WIRING			STAR	TER		DISCONNE	CT TYPE AND R	ATING	
EQUIPMENT	EQUIPMENT DESCRIPTION	LOCATION	KW	HP	FLA (AMPS)	MCA (AMPS)	MOCP (AMPS)	VOLTS	PHASE	NO.	SIZE	GND.	С	TYPE	NEMA SIZE	FURNISHED/ INSTALLED BY	TYPE	SIZE / FUSE	NEMA ENCLOSURE	FURNISHED/ INSTALLED BY	KEYED NOTE
BAF	BARRIER AHEAD FLASHING SIGN	SITE						120	1	2	10	10	1"	-	-	-	-	-	-	-	3
EF-1	EXHAUST FAN	102	.016					120	1	2	12	12	3/4"	-	-	-	-	-	-	-	6
EWH-1	ELECTRICAL WALL HEATER	102	1.5					120	1	2	12	12	3/4"		INTEG	RAL			INTEGRAL		
EWH-2	ELECTRICAL WALL HEATER	104	1.8					120	1	2	12	12	3/4"		INTEG	RAL			INTEGRAL		
FDB-1C	FINAL DENIAL BARRIER CONTROLS	SITE							BELDEN F	PER MANU	IFACTURE		1"	-	-	-	-	-	-	-	2
FDB-1H	FINAL DENIAL BARRIER HOSE	SITE						HOSE	E FURNISH	HED BY M	ANUFACT	JRER	3"	-	-	-	-	-	-	-	
FDB-2C	FINAL DENIAL BARRIER CONTROLS	SITE							BELDEN F	PER MANU	IFACTURE		1"	-	-	-	-	-	-	-	2
FDB-2H	FINAL DENIAL BARRIER HOSE	SITE						HOSE	E FURNISH	HED BY M	ANUFACT	JRER	3"	-	-	-	-	-	-	-	
FMCP	FIRE ALARM MASS NOTIFICATION CONTROL PANEL	103	1.0					120	1	2	12	12	3/4"	-	-	-	-	-	-	-	
GB	GUARD BOOTH	SITE	7.4					208/120	1	3	6	10	1"		-	-	-	-	-	-	5
GBCVIF	GUARD BOOTH CVIF SUPPORT	107	6.0					208/120	1	3	6	10	1"	-	-	-	-	-	-	-	5
HPU-1C	HYDRAULIC POWER UNIT CONTROLS	SITE	3					208/120	1	3	6	6	2"	-	-	-			INTEGRAL		
HPU-1M	HYDRAULIC POWER UNIT MOTOR	SITE		3				208	3	3	8	8	2"		INTEG	GRAL			INTEGRAL		
LS	LOOP SENSOR	SITE	-	-	-	-	-	-	-	-	-	-	1"	-	-	-	-	-	-	-	1,2
MCP	MAIN CONTROL PANEL	101	0.5					120	1	2	12	12	3/4"	-	-	-		DIRE	CT CONNECTIO	V	
MTSH	MANUAL TRANSFER SWITCH HEATER	YARD	0.05	-	-	-	-	120	1	2	12	12	3/4"	-	-	-	-	-	-	-	
RTU-1	ROOFTOP UNIT	YARD				20	30	208	1	2	10	10	3/4"		INTEG	FRAL			INTEGRAL		
SG	SLIDING GATE OPERATOR	SITE		1				208/120	3	4	8	8	2"		INTEG	RAL	F	30A/15A	3R	EC/EC	4
SIGN	SCROLLING SIGN	SITE	1	-	-	-	-	208/120	1	3	8	8	2"	-	-	-	NF	30A/15A	3R	EC/EC	
TS	TRAFFIC SIGNAL	SITE						120	1	2	10	10	1"	-	-	-	-	-	-	-	3
WBF	WATER BOTTLE FILLER SENSOR	101	.010					101	1	2	12	12	3/4"	-	-	-		DIRE	CT CONNECTIO	V	
WH	WATER HEATER	102	4.9					208	1	2	10	10	3/4"		INTEG	FRAL	NF	30A	3R	EC/EC	
WM-1	WATER METER	102	.015	-	-	-	-	120	1	2	12	12	3/4"	-	-	-		DIRE	CT CONNECTIO	N	

EQUIPMENT SCHEDULE GENERAL NOTES:

- 1. ALL WORK BY THIS CONTRACTOR TO COMPLY WITH ALL LOCAL, STATE AND NATIONAL ELECTRICAL CODES.
- 2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO AVOID CONFLICTS AND TO VERIFY ALL EQUIPMENT CONNECTIONS AND FOR COMPLETE INSTALLATION.
- 3. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE ELECTRICAL SYSTEM PER CONTRACT DRAWINGS AND ENSURING THAT THE SYSTEM IS OPERATIONAL UPON JOB COMPLETION.
- 4. PROVIDE ALL POWER WIRING INCLUDING ALL CIRCUITRY CARRYING ELECTRICAL ENERGY FROM PANELBOARD OR OTHER SOURCE THROUGH STARTERS AND DISCONNECTS TO MOTORS, PACKAGED EQUIPMENT OR PACKAGED CONTROL PANELS. PROVIDE ALL WIRING BETWEEN CONTROL PANELS AND MOTORS. INCLUDE STARTERS, DISCONNECTS AND OVERLOAD PROTECTION IF NOT INCLUDED HVAC SPECIFICATION. COORDINATE WITH HVAC SPECIFICATIONS.
- 5. MOTORS CONNECTED TO EMERGENCY SYSTEMS CIRCUITRY SHALL HAVE CIRCUITRY INSTALLED IN SEPARATE RACEWAY PER NEC ARTICLE 700.
- 6. THIS CONTRACTOR SHALL VERIFY WITH MECHANICAL CONTRACTOR, ELECTRICAL REQUIREMENTS INCLUDING VOLTAGES, HORSE POWER, DISCONNECTING MEANS, STARTERS FOR MOTORS AND EQUIPMENT PRIOR TO ORDERING CIRCUIT BREAKERS, FUSIBLE
- 7. ALL INTERLOCKING REQUIRED BY THE DRIVE MANUFACTURER BETWEEN THE VARIABLE FREQUENCY DRIVE AND THE DISCONNECT SWITCHES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

EQUIPMENT SCHEDULE KEYED NOTES:

- 1. CABLE FURNISHED BY MANUFACTURER, INSTALLED AND TERMINATED BY EC. SEE DETAILS 3/E-501 FOR MORE INFORMATION.
- 2. ROUTE POWER/CONTROL FROM LOCATION SHOWN ON PLANS BACK TO RESPECTIVE HYDRAULIC POWER UNIT (HPU).
- 3. POWER SOURCED FROM RESPECTIVE HYDRAULIC POWER UNIT CONTROLS. VERIFY EXACT REQUIREMENTS WITH VEHICLE BARRIER APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN.
- 4. SEE DETAIL 7/E-501 FOR MORE INFORMATION.
- 5. EQUIPMENT FURNISHED BY GOVERNMENT WITH INTEGRAL LOAD CENTER WITH MAIN DISCONNECT. COORDINATE EXACT CONNECTION WITH ACTUAL SUPPLIED EQUIPMENT.
- 6. ON/OFF CONTROL SHALL BE THROUGH LOCAL ROOM OCCUPANCY SENSOR THAT IS ALSO CONTROLLING ROOM LIGHTING.

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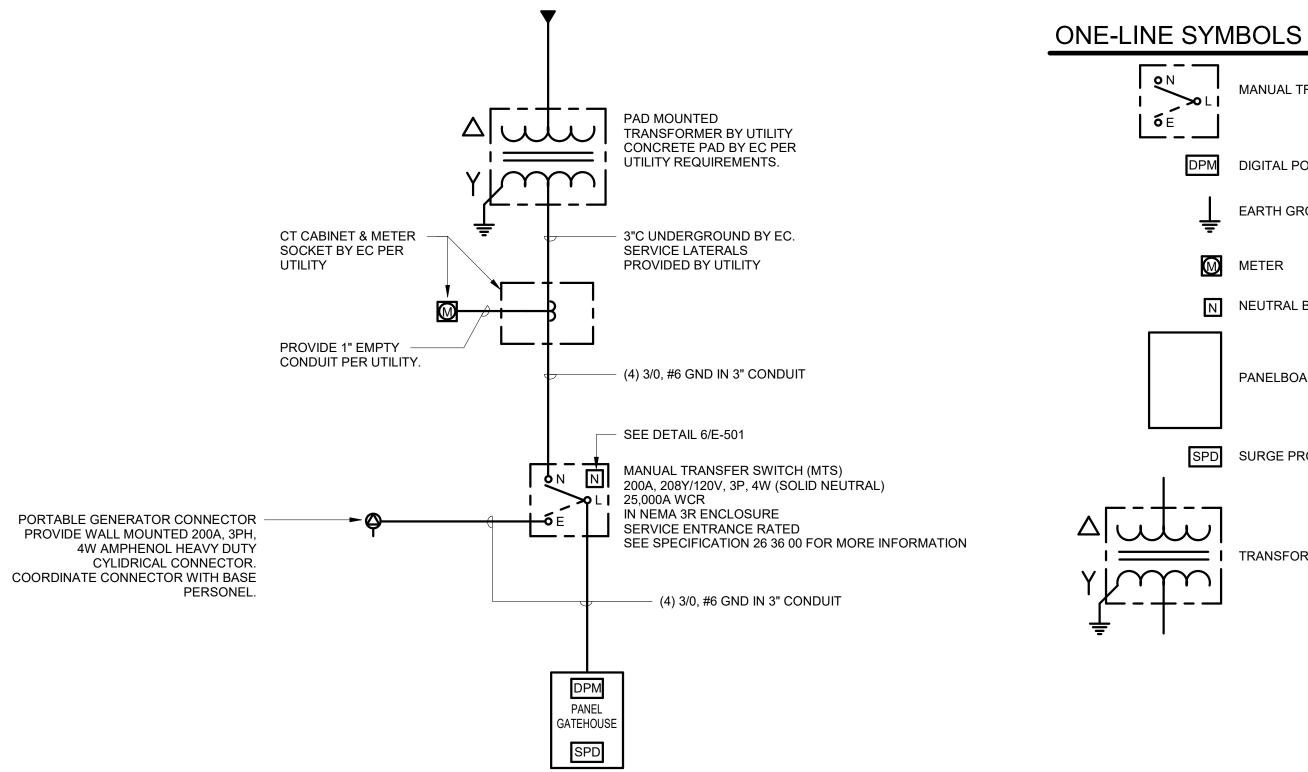
02/17/21 B3 FINAL

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 February 17, 2021 DESIGNED BY: ARG

DRAWN BY: KLU CHECKED BY: JRH DO NOT SCALE DRAWINGS

SHEET CONTENTS SCHEDULES

	Panelboard: Bus Ampacity		225	Volts		′/120	Panel Sou	rce:	UTILITY				
	Branch Brkr Space		Poles	_ Volts Phase	3		Feed-Thru		None				
	Main Type		1CB	Wires			_ 1 cca 1111a1	Lugo	140110		-		
	MCB Amps		200	Delta/Wye Mounting		ye	Sub-Feed L	ugs	None				
				Enclosure	NEM	A 3R	Sub-Feed E	Brkr #1	None				
				SCCR SE Rated	22 N	0	Sub-Feed E	Brkr #2	None				
	Comments:			Pnl MCA	17 ⁻	I A	_	SPD	100 kA				
	Comments.							Iso Grd	No No				
еу	Load	Cct	Brkr		Left Side			Right Side		Brkr	Cct		Ke
ote	Description	No	A/P	Α	В	С	Α	В	С	A/P	No	Description	Not
	SITE LIGHTS	1	20/2	360			1,000			20/1		FACP	
	1	3			360			500		20/1		MCP	
	SITE LIGHTS	5	20/2			470			500	20/1	_	XMITTER AND CNTRLLER	
		7		470			180			20/1		CVIF RECEPT.	
	SITE LIGHTS	9	20/2		875			180		20/1		CVIF RECEPT.	
		11				875			180	20/1		CVIF RECEPT.	
	SITE LIGHTS	13	20/2	585			180			20/1		CVIF RECEPT.	
		15			585			180		20/1		CVIF RECEPT.	
	SPARE	17	20/2			0			180	20/1		CVIF RECEPT.	
		19	1	0			180			20/1	20	CVIF RECEPT.	
	GATEHOUSE AND												
	CANOPY LIGHTS	21	20/1		750			0		20/1		SPARE	
	CVIF CANOPY LIGHTS	23	20/1			400			0	20/1	24	SPARE	
	RTU-1	25	30/2	2,080			552			20/3	26	SG - ENTRY LANE	
	1	27			2,080			552			28		
	YARD AND #103 RECPT.	29	20/1			360			552		30	1	
	#104, #102, #101 RECEPT.	31	20/1	540			552			20/3	32	SG - EXIT LANE	
	EWH-1	33	20/1	0.0	1,500			552		1	34	1	
	EWH-2	35	20/1	-	1,000	1,800	+	- 332	552		36	1	
	WH-1	37	30/2	2,450		1,000	0		002	20/3		SPARE	
		39	1	2,400	2,450			0		1	40	I	
		41	<u> </u>	-	2,430	0	_	0	0		42	1	
	GB	43	60/2	3,700		0	1,272		- 0	20/3		HPU-1M	
	I GB	45	1	3,700	3,700		1,212	1,272		20/3	46	I IF O- IIVI	
	GB	47	60/2	-	3,700	3,700	_	1,272	1,272		48	1	
	GB		00/2	2.700		3,700	1 500		1,272	20/2		HPU-1C	
	DECEDE DADO	49		3,700			1,500			20/2	50	HPU-IC	
	RECEPT BADG. COUNTER	51	20/1		1,080			1,500		I	52		
	RECEPT WEST COUNTER	53	20/1			720			0	20/2		SPARE	
	TELECOM RECEPT	55	30/1	1,000			0				56		
	TELECOM RECEPT	57	20/1		1,000			0		20/1		SPARE	
	RECEPT. SOUTH	59	20/1			720			0	20/1		SPARE	
	RECEPT. SOUTH	61	20/1	720			0			20/1		SPARE	
	RECEPT. MONITORS	63	20/1		540			0		20/1		SPARE	
	RECEPT UCR	65	20/1			500			0	20/1		SPARE	
G	RECEPT HANDHOLE	67	20/1	180			0			20/1		SPARE	
	MTSH	69	20/1		50			0		20/1	70	SPARE	
	RECEPT. EXT.	71	20/1			360			0	20/1	72	SPARE	
		73		0			0				74		
		75			0			0			76		
		77		†		0	_		0		78		
		79		0			0	1			80		
	GBCVIF	81	60/2		3,000		-	0			82		
		83	1	†	- ,	3,000	_		0		84		
	1		-			3,000			+		+		







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GUARD ENTRANCE DIGITAL POWER METER

EARTH GROUND

N NEUTRAL BOND

PANELBOARD (ELEVATION VIEW)

MANUAL TRANSFER SWITCH

SPD SURGE PROTECTIVE DEVICE

TRANSFORMER

02/17/21 B3 FINAL

M&H NO.: 3141900-113782.01 DATE: February 17, 2021

DESIGNED BY: ARG DRAWN BY: KLU CHECKED BY: JRH

SHEET CONTENTS ONE-LINE DIAGRAM

	TECHNOLOGY OUTLET SCHE	DULE	
SYMBOL	DESCRIPTION	MOUNTING	COMMENTS
•	TWO-PORT TECHNOLOGY OUTLET: - (1) 1" CONDUIT - (1) 4-11/16" SQUARE x 2-5/8" DEEP BACKBOX WITH SINGLE GANG TRIM - (1) SINGLE-GANG, TWO-PORT FACEPLATE - (2) CATEGORY 6 CABLES - (2) CATEGORY 6 JACKS	18" AFF TO CENTER OF BOX U.N.O.	
FPD ▼	FLAT-PANEL DISPLAY TECHNOLOGY OUTLET: - (1) 1" CONDUIT STUB - (1) 4-11/16" SQUARE x 2-5/8" DEEP BACKBOX WITH SINGLE GANG TRIM RING - (1) SINGLEGANG, TWO-PORT FACEPLATE - (2) CATEGORY 6 JACKS - (2) CATEGORY 6 CABLES		

TECHNOLOGY OUTLET SCHEDULE NOTES:

1. REFER TO DIVISION 26 SPECIFICATIONS FOR BOX AND CONDUIT SPECIFICATIONS AND EXECUTION REQUIREMENTS

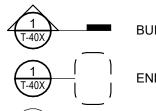
GENERAL SYMBOLS

DETAIL NUMBER / SHEET NUMBER X/T-XXX KEYED NOTE, USED TO DESCRIBE ADDITIONAL $\langle 9.XXX \rangle$ INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DEAIL IT IS SHOWN WITH

IT ROOM 116

DOOR IDENTIFICATION

ROOM NAME AND NUMBER



BUILDING SECTION



SITE SYMBOLS

HANDHOLE, GENERIC

LINE TYPE KEY

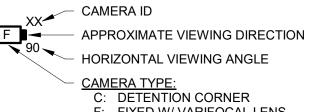
NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE) ____ EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK DASHED LINE) _____ NEW WORK UNDER FLOOR BY THIS CONTRACTOR

SECURITY SYSTEM SYMBOLS

CARDREADER STATUS SENSOR / MONITOR ELECTRIC STRIKE ACP ACCESS CONTROL PANEL

VIDEO SURVEILLANCE SYMBOLS

VIDEO SURVEILLANCE CAMERA:



F: FIXED W/ VARIFOCAL LENS M: MULTISENSOR O: FISHEYE P: PAN-TILT-ZOOM

MOUNTING MODIFIERS: CEILING MOUNT H F WALL MOUNT

o-F POLE MOUNT **≻**F EXTERIOR CORNER MOUNT (MOUNTING HEIGHT 84" AFF, UNO) INTERIOR CORNER MOUNT

TELECOMMUNICATIONS GROUNDING BUS BAR

COMMUNICATIONS SYMBOLS

COMMUNICATIONS CABINET

TECHNOLOGY ABBREVIATIONS

- AND 3R NEMA 3R RATED
- NEMA 4X RATED 4X ΑT (a)
- ARCHITECT / ENGINEER
- ACCESS CONTROL SYSTEM ABOVE FINISHED FLOOR
- ABOVE FINISH GRADE AFG ALTERNATE
- ANT **ANTENNA** (WIRELESS) ACCESS POINT
- **AUDIO VISUAL**
- **BUILDING ENTRANCE TERMINAL**
- BAGGAGE INFORMATION DISPLAY BID
- BLDG BUILDING CONDUIT
- CAB CABINET CATV COMMUNITY ANTENNA TELEVISION
- CL CENTERLINE CLG CEILING
- COAX COAXIAL

ETR

- COMM COMMUNICATIONS DO DOOR OPERATOR
- DSS DIGITAL SATELLITE SERVICE DWG DRAWING
- EC ELECTRICAL CONTRACTOR
- EMT ELECTRICAL METALLIC TUBING EXISTING TO REMAIN
- FA FIRE ALARM
- FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- FID FLIGHT INFORMATION DISPLAY FO FIBER OPTIC
- FPD FLAT-PANEL DISPLAY
- GC GENERAL CONTRACTOR GID GATE INFORMATION DISPLAY
- GND GROUND
- GRC GALVANIZED RIGID CONDUIT
- GRS GALVANIZED RIGID STEEL
- HAND HOLE
- HH HPC HIGH PAIR COUNT
- HEATING, VENTILATION, AIR CONDITIONING
- IDF INTERMEDIATE DISTRIBUTION FRAME
- IDS INTRUSION DETECTION SYSTEM
- INTERMEDIATE METALLIC CONDUIT INFORMATION TECHNOLOGY
- INFORMATION TRANSPORT SYSTEMS
- JUNCTION BOX
- MDF MAIN DISTRIBUTION FRAME
- MH MAN HOLE MINIMUM
- MULTIMODE FIBER OPTIC
- MASS NOTIFICATION SYSTEM MNS MON MONITOR
- MTD MOUNTED
- NIC NOT IN CONTRACT NTS NOT TO SCALE
- NETWORK (DATA) NTWK
- ON CENTER OC
- PUBLIC ADDRESS PA
- PROJ PROJECTOR
- PTZ PAN TILT ZOOM
- PVC POLYVINYL CHLORIDE
- RCV RECEIVER
- REQ'D REQUIRED
- SCHED SCHEDULE
- SE SERVICE ENTRANCE
- SMFO SINGLEMODE FIBER OPTIC
- SS STAINLESS STEEL
- SYS SYSTEM TBR TO BE REMOVED
- TC TECHNOLOGY CONTRACTOR
- TGB TELECOMMUNICATIONS GROUNDING BUSBAR TMGB TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
- TO TELECOMMUNICATIONS OUTLET
- TSE TELEPHONE SERVICE EQUIPMENT TV TELEVISION
- TYP TYPICAL
- UF UNDER FLOOR
- UG UNDERGROUND UNO UNLESS NOTED OTHERWISE
- UTP UNSHIELDED TWISTED PAIR
- VSS VIDEO SURVEILLANCE SYSTEM WL WET LOCATION LISTED
- WP WEATHERPROOF
- WS WORKSTATION

GENERAL NOTES

MOUNTED EQUIPMENT.

- 1. PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO INSTALL COMPLETE TECHNOLOGY SYSTEMS AS INDICATED ON THESE DRAWINGS AND
- 2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE DETAILS OF WORK. VERIFY DIMENSIONS IN THE FIELD, AND ADVISE THE ARCHITECT/ENGINEER OF

ANY DISCREPANCY BEFORE PERFORMING ANY WORK.

- 3. COORDINATE LOCATION AND MOUNTING REQUIREMENTS OF ALL CEILING-MOUNTED OR ABOVE-CEILING-MOUNTED DEVICES WITH REFLECTED CEILING PLAN, LIGHTING LAYOUT, SIGNAGE, AND OTHER CEILING OR ABOVE-CEILING-
- 4. MOUNT ALL TECHNOLOGY OUTLETS AT HEIGHTS ABOVE FINISHED FLOOR AS SHOWN IN THE TECHNOLOGY OUTLET SCHEDULE U.N.O.
- 5. MOUNT TECHNOLOGY SYSTEMS EQUIPMENT/DEVICES SO AS TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TECHNOLOGY SYSTEMS EQUIPMENT/DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE COORDINATED WITH AND APPROVED BY THAT CONTRACTOR IN ADVANCE OF INSTALLATION.
- 6. PROVIDE ALL OPENINGS REQUIRED IN WALLS. REPAIR ALL OPENINGS TO MATCH EXISTING USING A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. GROUT OR SEAL ALL CONDUITS THROUGH WALLS INTO OPENINGS. FIRESTOP ALL PENETRATIONS THROUGH FLOORS AND FIRE-RATED WALLS IN A MANNER THAT MAINTAINS THE RATING OF THE FLOOR OR WALL PENETRATED.
- 7. PROVIDE ALL TRENCHING AND BACKFILL FOR BURIED TECHNOLOGY SYSTEMS CONDUITS UNLESS NOTED OTHERWISE.
- 8. PROVIDE METALLIC TAPE ABOVE BURIED PVC CONDUIT FOR FUTURE LOCATING.
- 9. CONDUIT ROUTED UNDER THE BUILDING SHALL BE MINIMUM 18" BELOW SLAB.

Mead

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02/17/21 B3 FINAL

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01

DATE: February 17, 2021 DESIGNED BY: MJR DRAWN BY: RKK

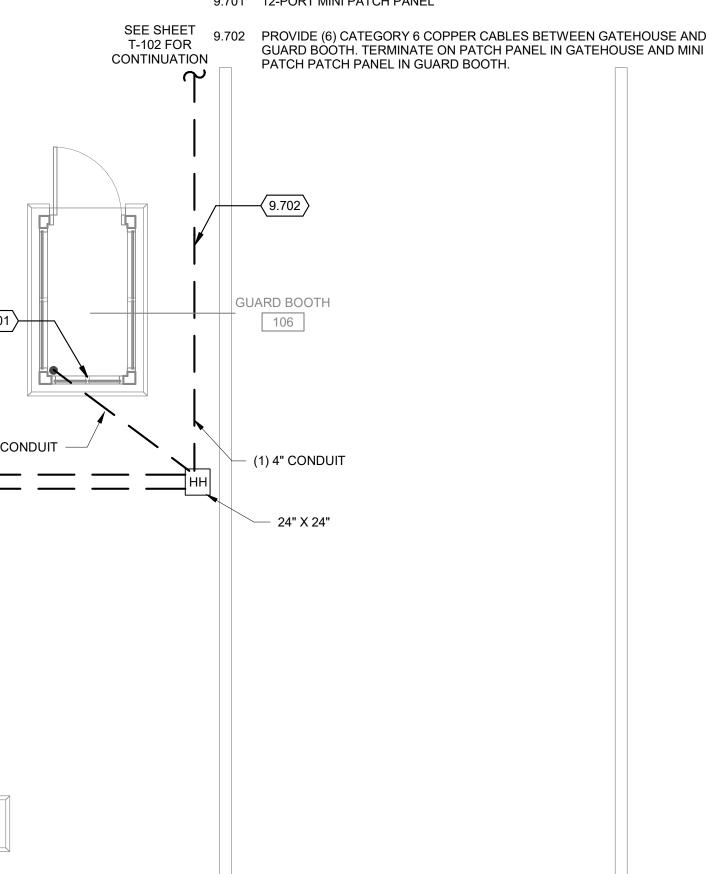
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DO NOT SCALE DRAWINGS SHEET CONTENTS NOTES, SYMBOLS &

ABBREVIATIONS

COMMUNICATIONS GENERAL NOTES

- 1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. REFER TO T-500 SERIES FOR DETAILS.
- 3. REFER TO C-400 SERIESS SHEETS FOR ADDITIONAL TELECOMMUNICATION REQUIREMENTS.



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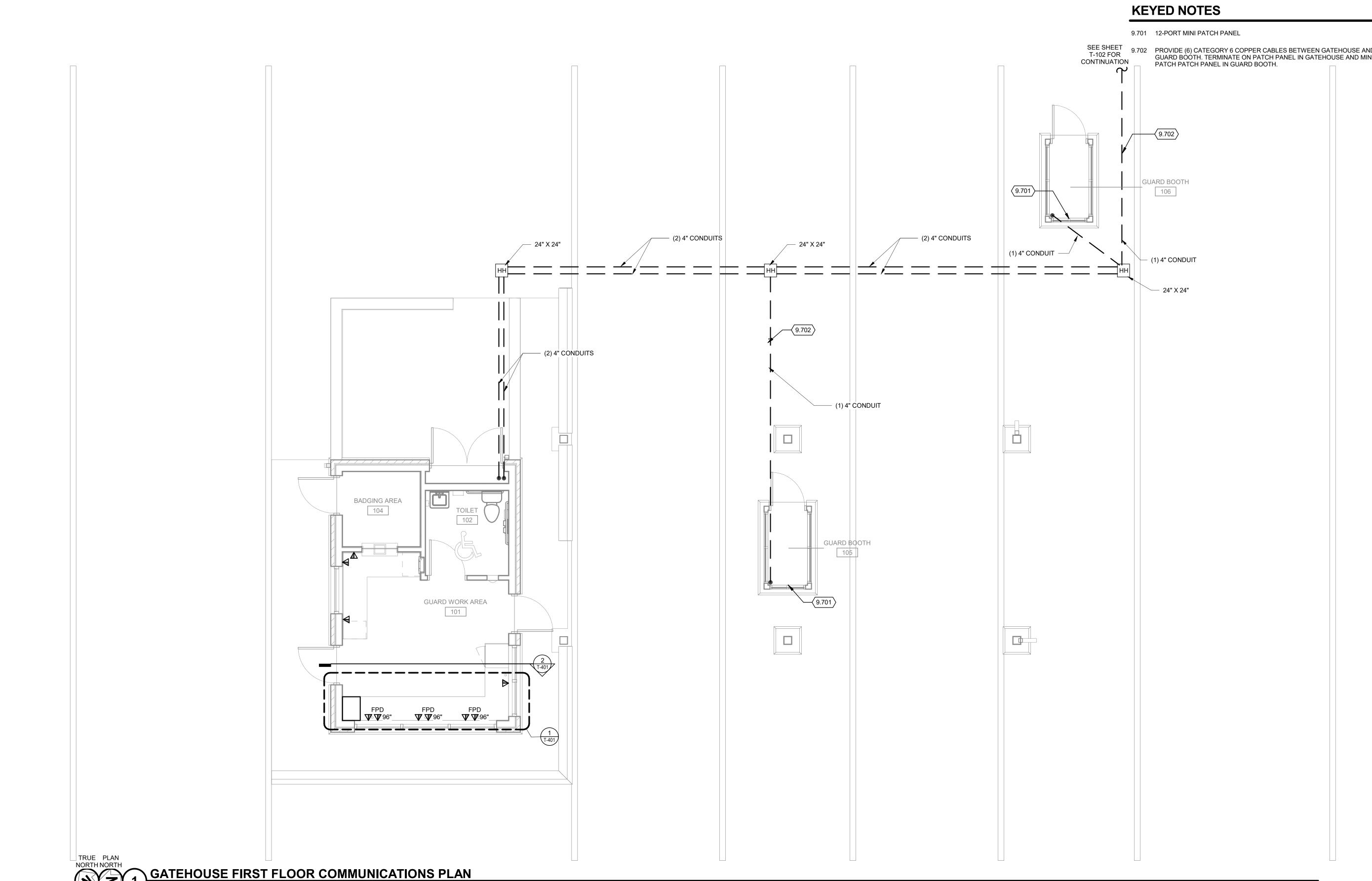
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02/17/21 B3 FINAL

3141900-113782.01

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SHEET CONTENTS GATEHOUSE FIRST FLOOR COMMUNICATIONS



COMMUNICATIONS GENERAL NOTES

- 1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. REFER TO T-500 SERIES FOR DETAILS.
- 3. REFER TO C-400 SERIESS SHEETS FOR ADDITIONAL TELECOMMUNICATION REQUIREMENTS.

KEYED NOTES

9.701 12-PORT MINI PATCH PANEL

9.703 PROVIDE (6) CATEGORY 6 COPPER CABLES BETWEEN GATEHOUSE AND CVIF SUPPORT. TERMINATE ON PATCH PANEL IN GATEHOUSE AND MINI PATCH PATCH PANEL IN CVIF SUPPORT.



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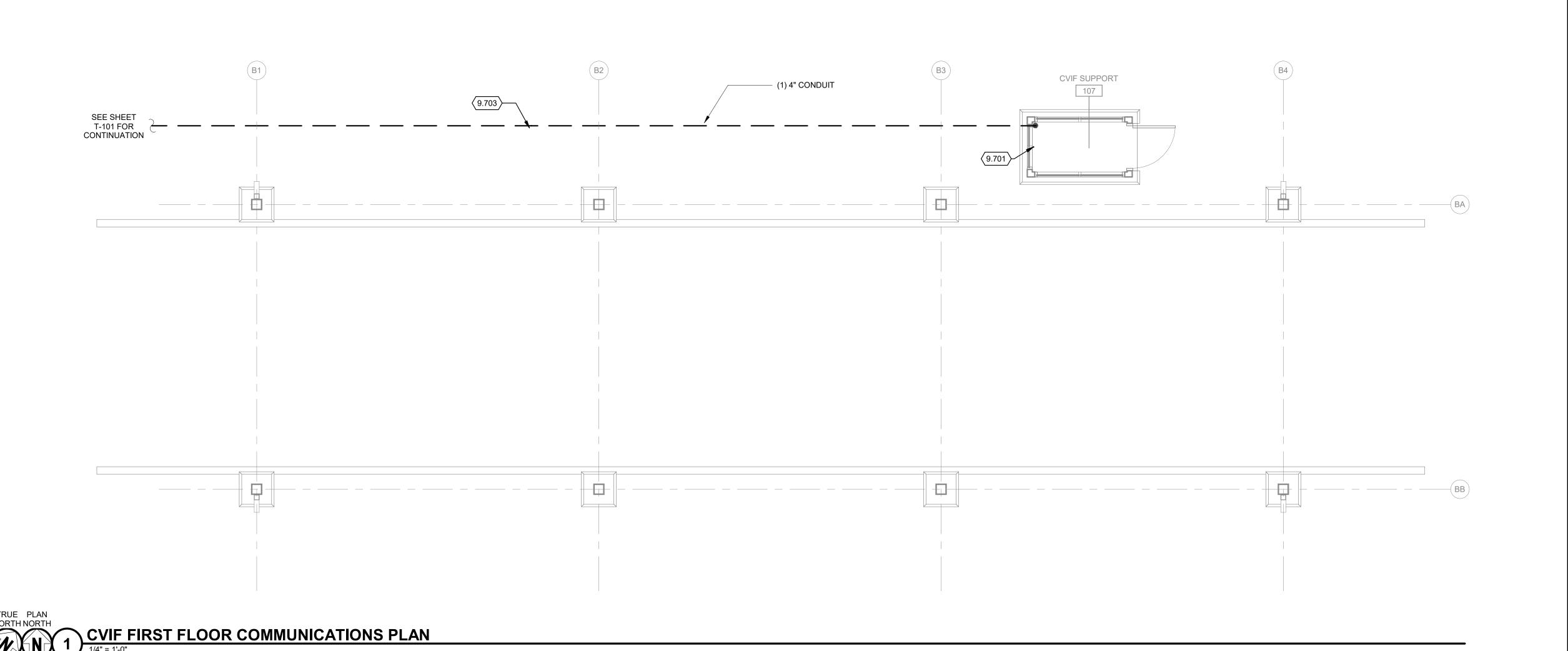
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ПП ХХ

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SHEET CONTENTS CVIF FIRST FLOOR COMMUNICATIONS PLAN



SECURITY GENERAL NOTES

- 1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. REFER TO T-500 SERIES FOR DETAILS.
- 3. ALL CAMERAS TERMINATE ON MINI-PATCH PANEL IN GUARD BOOTH.

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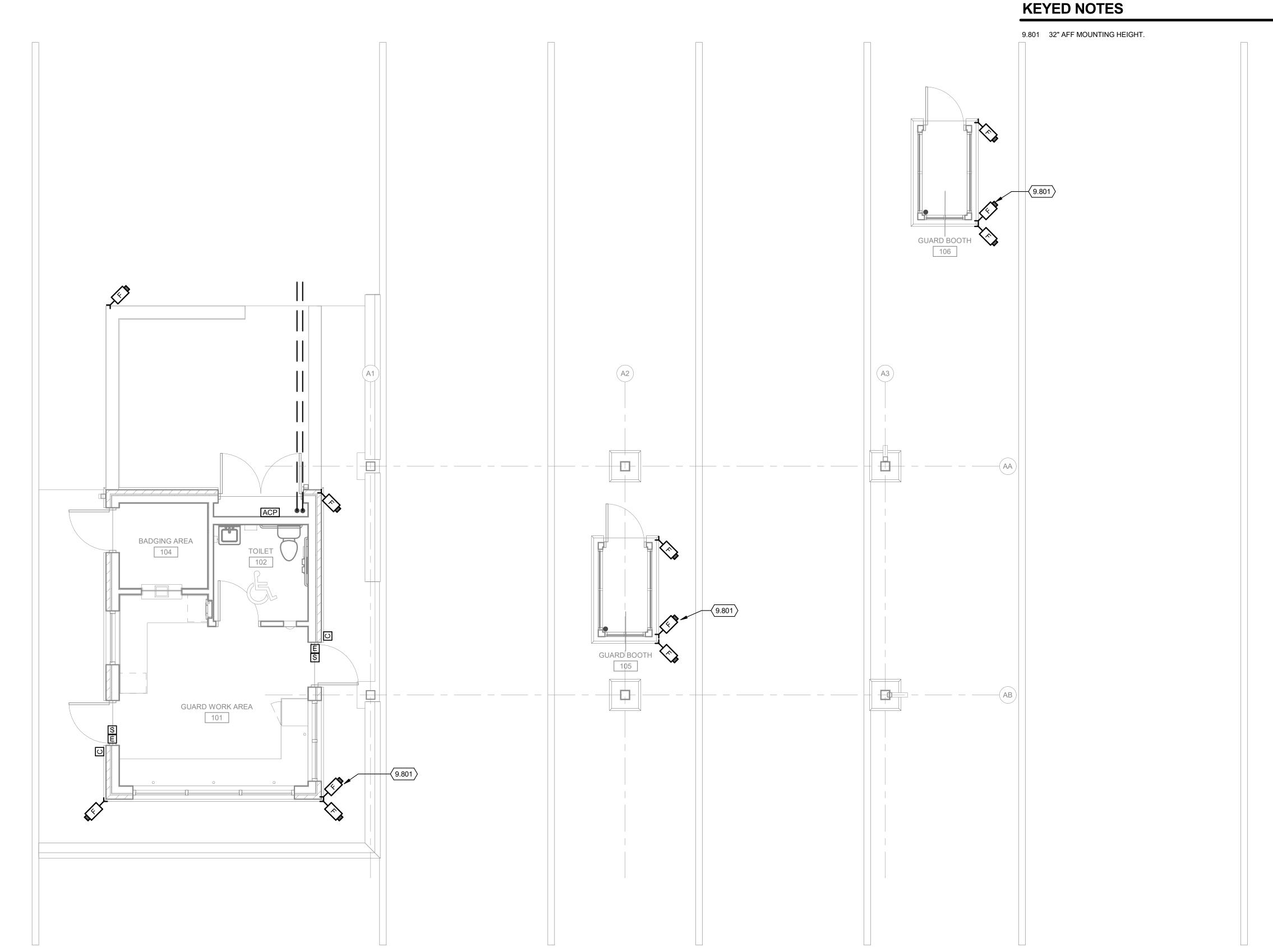
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M&H NO.: 3141900-113782.01

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SHEET CONTENTS GATEHOUSE FIRST FLOOR SECURITY PLAN

T-121



GATEHOUSE FIRST FLOOR SECURITY PLAN

SECURITY GENERAL NOTES

- 1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2. REFER TO T-500 SERIES FOR DETAILS.
- 3. ALL CAMERAS TERMINATE ON MINI-PATCH PANEL IN CVIF SUPPORT.

KEYED NOTES

9.801 32" AFF MOUNTING HEIGHT.



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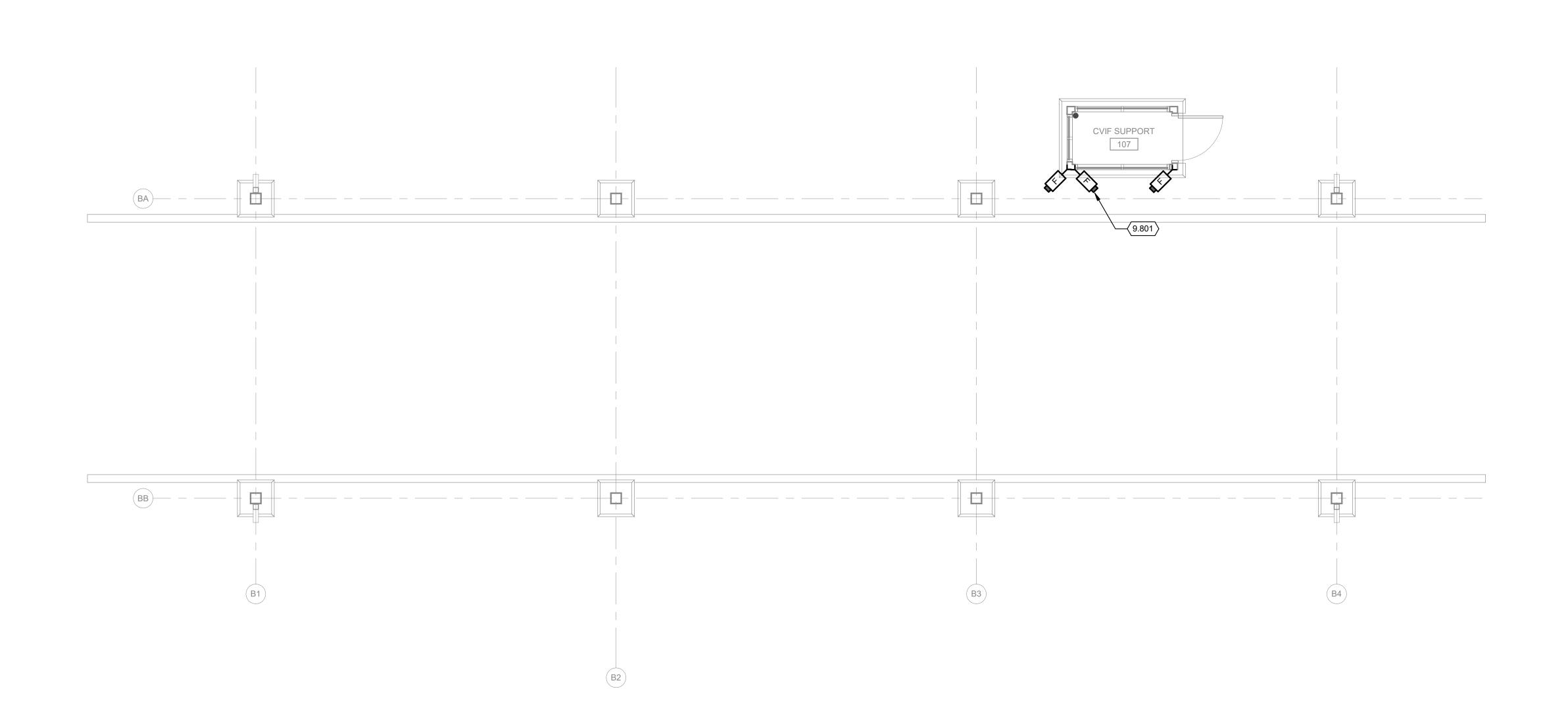
February 17, 2021 DESIGNED BY: MJR DRAWN BY:

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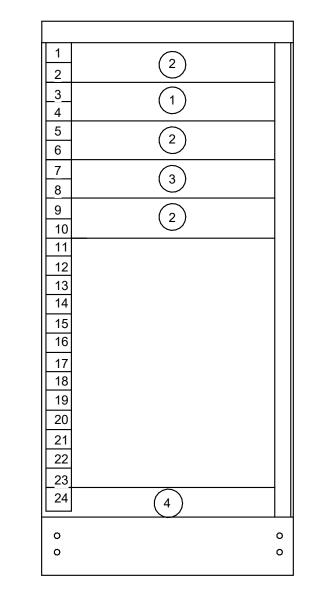
SHEET CONTENTS

CVIF FIRST FLOOR

SECURITY PLAN



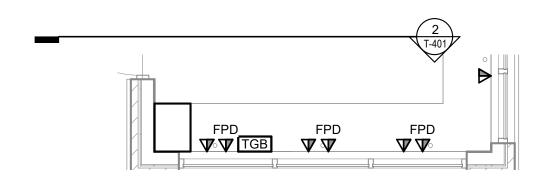




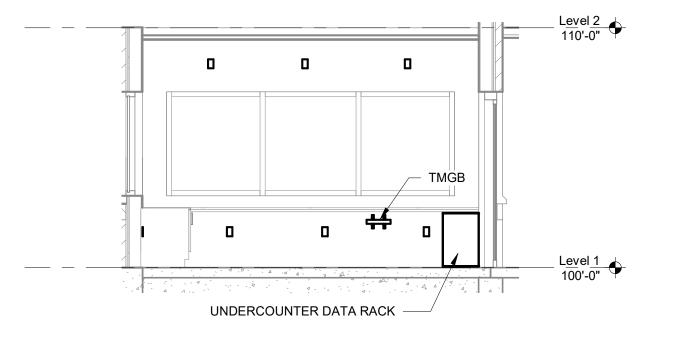
	EQUIPMENT SCHEDULE
1	FIBER OPTIC PATCH PANEL
2	WIRE MANAGER
3	48 - PORT COPPER PATCH PANEL CAT6
4	RACK MOUNT GROUNDING-BAR

1. EQUIPMENT LOCATION IS SHOWN TO ILLUSTRATE INTENT, ACTUAL LOCATION WITHIN RACK SHALL BE DETERMINED BY CONTRACTOR.

3 CABINET - WALL
NO SCALE



1) ENLARGED GUARD WORK AREA 101



GUARD WORK AREA 101 ELEVATION1/4" = 1'-0"

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MICHIGAN AIR NATIONAL GUARD CONSTRUCT MAIN BASE ENTRANCE

02/17/21 B3 FINAL

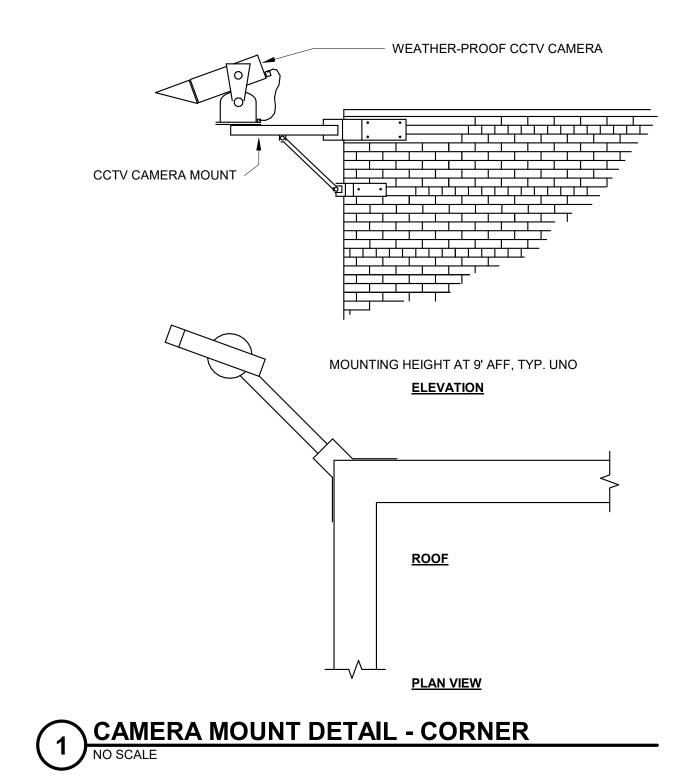
BATTLE CREE BATTLE CREE

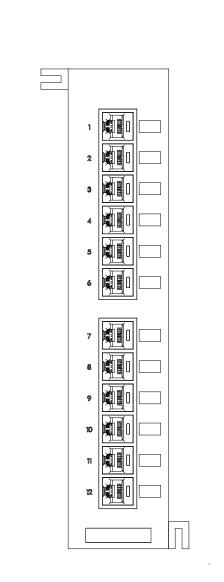
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M&H NO.: 3141900-113782.01 February 17, 2021 DESIGNED BY: MJR DRAWN BY:

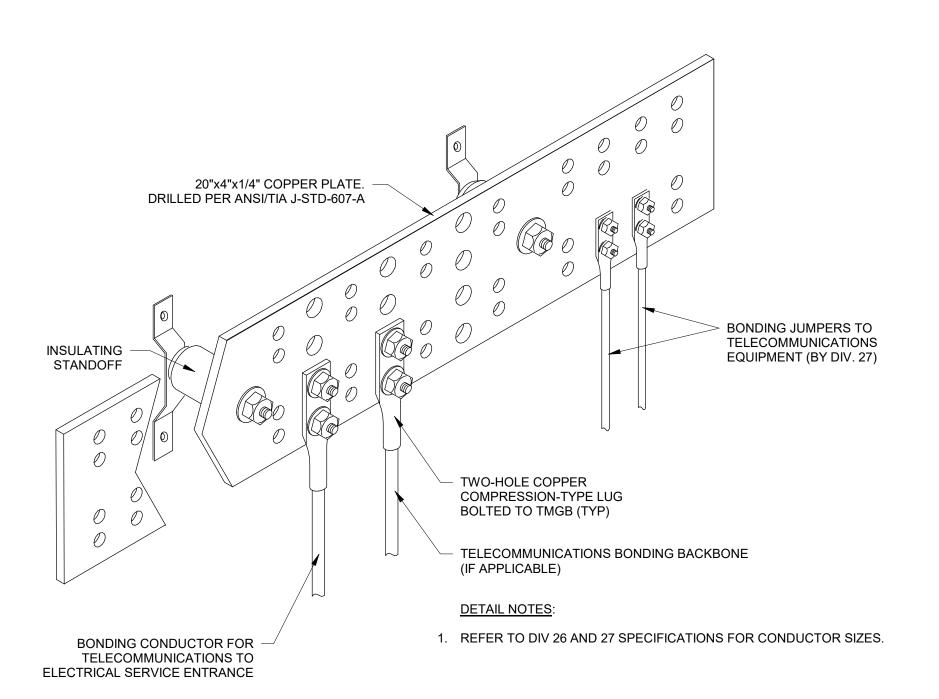
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SHEET CONTENTS ENLARGED PLANS, ELEVATIONS & SECTIONS





3 12-PORT MINI PATCH PANEL
NO SCALE



2 GROUND BUSBAR DETAIL
NO SCALE

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CRE CRE

ANG Project No.: MBMV099170 M&H NO.: 3141900-113782.01 February 17, 2021 DESIGNED BY: MJR

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SHEET CONTENTS DETAILS