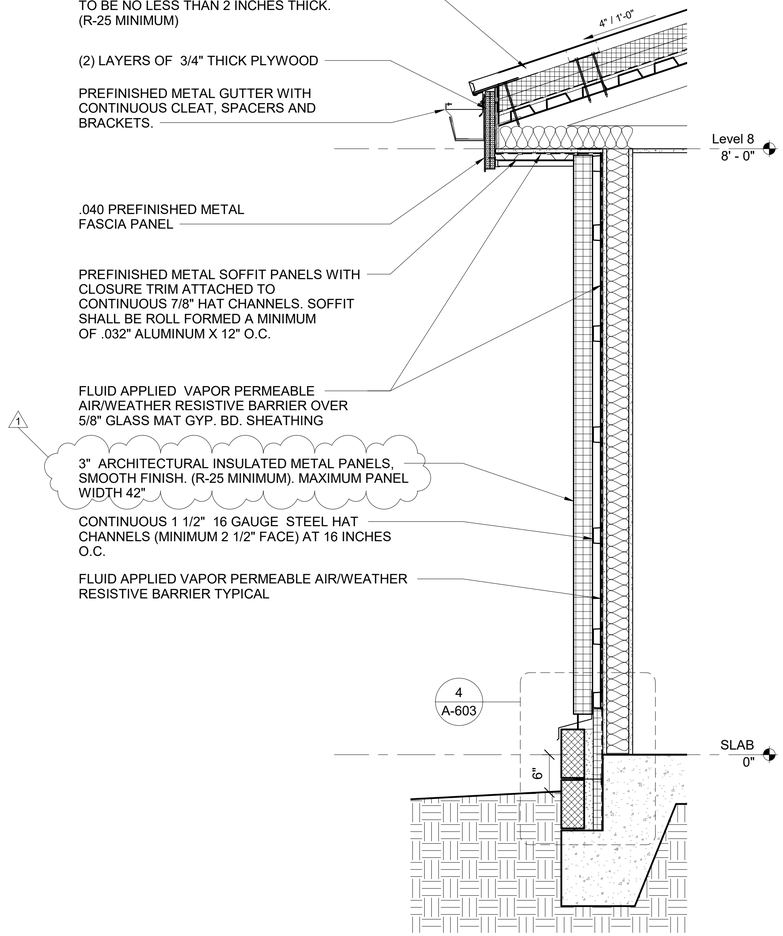
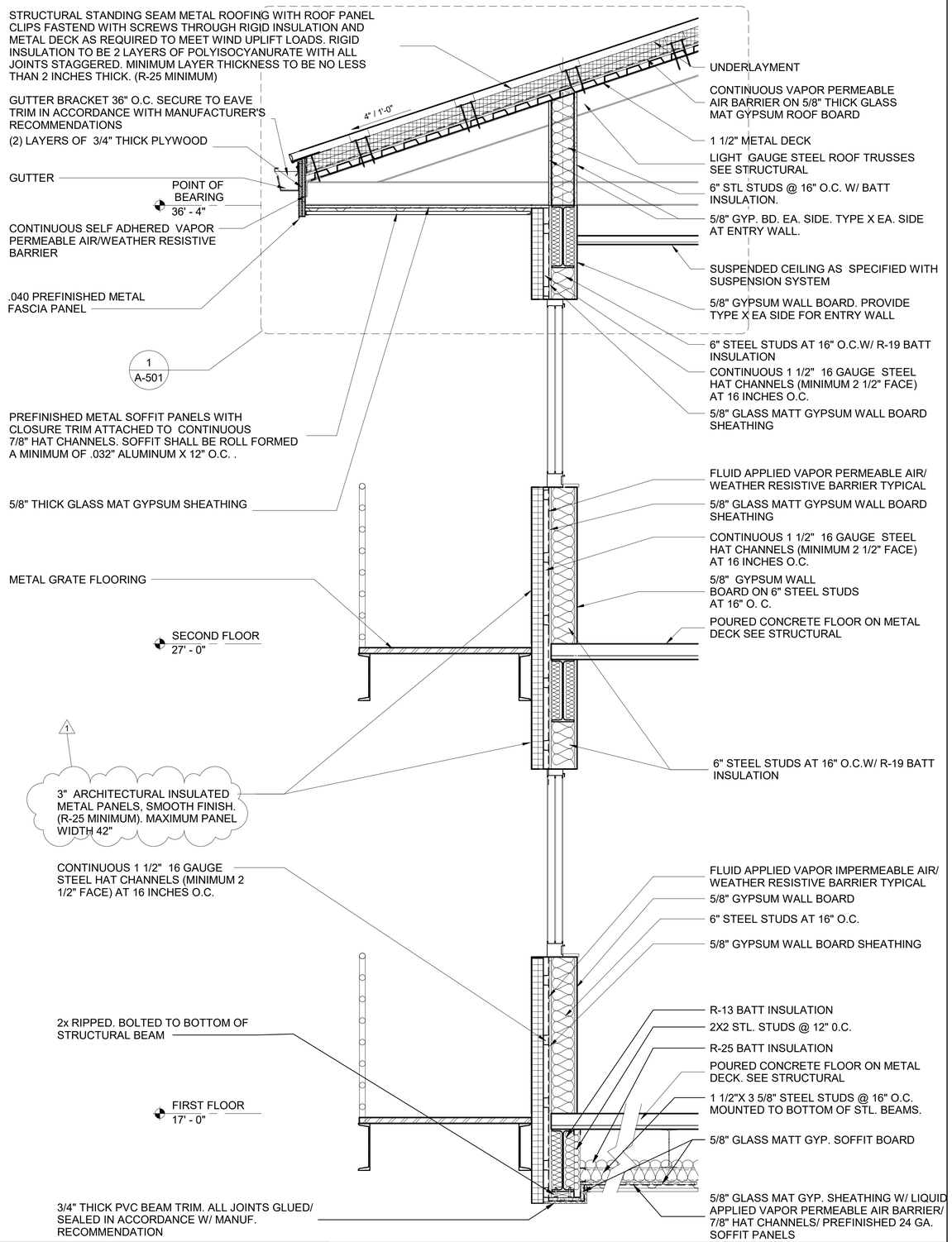


1 PUMP HOUSE WALL SECTION

1" = 1'-0"

SCALE: 1"=1'-0"



2 WALL SECTION 1

3/4" = 1'-0"

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

US Army Corps of Engineers ®

MARK	DATE
1	11 AUG 2023

REVISED IN ACCORDANCE WITH AMENDMENT 0003

DESCRIPTION

DESIGN BY: T. ODELL	ISSUE DATE: JUNE 2023
DRAWN BY: T.ODELL	SOLICITATION NO.: W912HN-23-B-3001
CHECKED BY: P. SULLIVAN	CONTRACT NO.:
SUBMITTED BY: J DEACON	CATEGORY CODE: 178-65-01
SIZE: ANSI D	FILE NAME:

U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT
100 W. OGLETHORPE AVE.
SAVANNAH, GA 31401

FORT LIBERTY, NORTH CAROLINA
AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTR)
FY23, PN 96182
VOLUME 2 - BUILDING

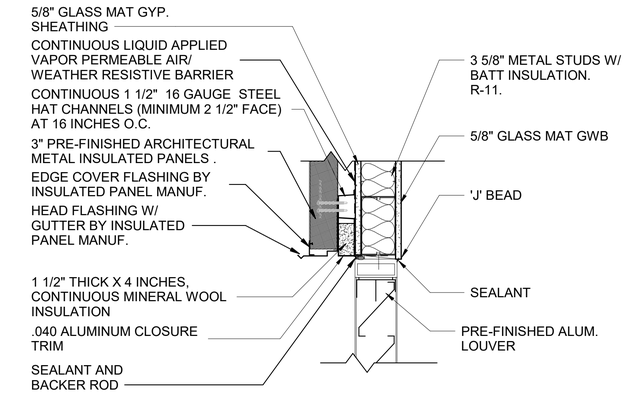
CONTROL TOWER WALL SECTIONS

SHEET ID
BLDG 1
A-302

READY TO ADVERTISE (RTA)

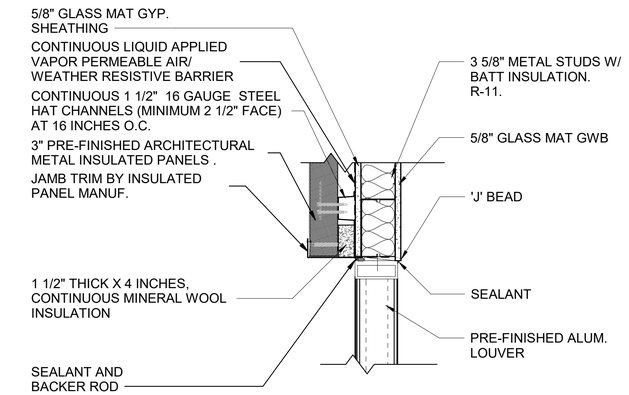
File Path: C:\Users\K6ENXT09\Documents\FY23_PN96182_MPTR-TOWER_ARCH_R21_K6ENXT09.rvt

Plot Date: 8/9/2023 3:55:23 PM



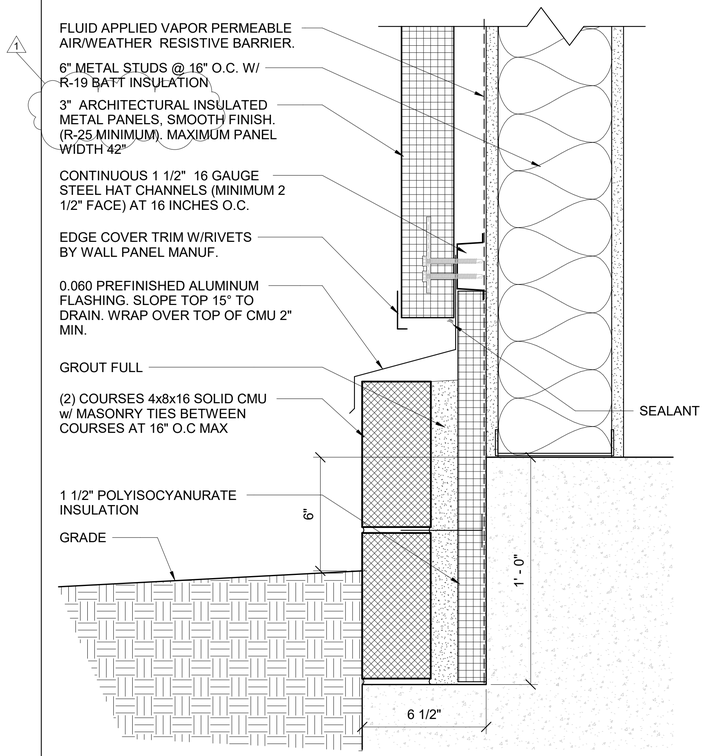
1 LOUVER HEAD

1 1/2" = 1'-0"



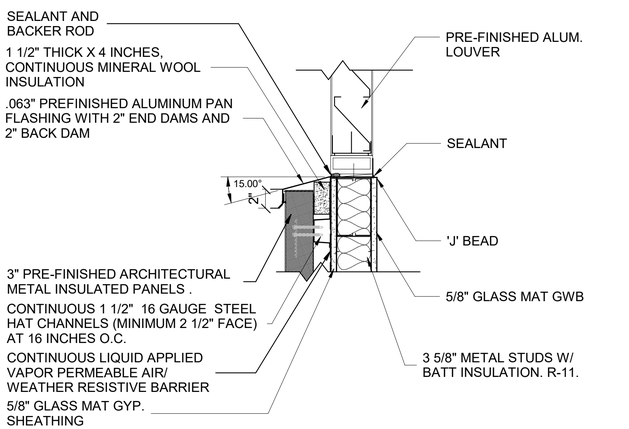
2 LOUVER JAMB

1 1/2" = 1'-0"



4 EXTERIOR WALL BASE

3" = 1'-0"



3 LOUVER SILL

1 1/2" = 1'-0"

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE
1	REVISED IN ACCORDANCE WITH AMENDMENT 0003	11 AUG 2023

ISSUE DATE: JUNE 2023
SOLICITATION NO.: W912HN-22-B-3001
CONTRACT NO.: .
CATEGORY CODE: 178-65-01
FILE NAME:

DESIGN BY: T. O'DELL
DRAWN BY: T. O'DELL
CHECKED BY: P. SULLIVAN
SUBMITTED BY: J DEACON
SIZE: ANSI D

U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT 100 W. OGLETHORPE AVE. SAVANNAH, GA 31401

FORT LIBERTY, NORTH CAROLINA
AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTR)
FY23, PN 96182
VOLUME 2 - BUILDING

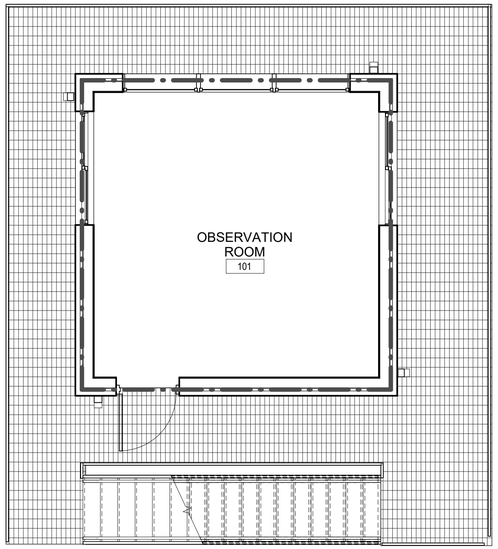
CONTROL TOWER DETAILS

SHEET ID
BLDG 1
A-603

READY TO ADVERTISE (RTA)

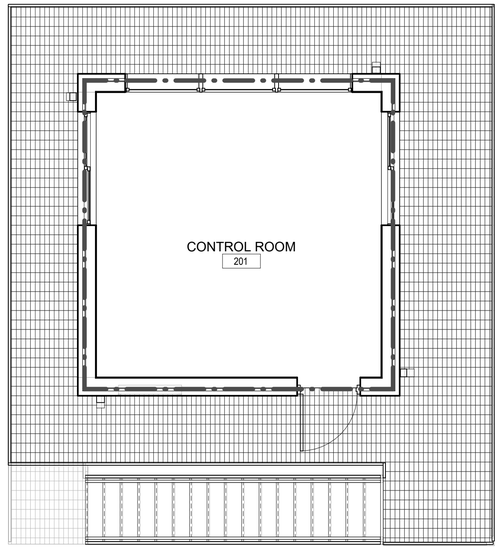
File Path: C:\Users\K6ENXTO9\Documents\FY23_PN96182_MPTR-TOWER_ARCH_R21_K6ENXTO9.rvt

Plot Date: 8/9/2023 3:56:01 PM



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

1 FIRST FLOOR - AIR BARRIER
1/4" = 1'-0"



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

2 SECOND FLOOR- AIR BARRIER
1/4" = 1'-0"

GENERAL NOTES

1. AIR BARRIER REQUIREMENTS: UFC 3-101-01 PARAGRAPH 3-6 REQUIRES THE BUILDING ENCLOSURE TO BE DESIGNED AND CONSTRUCTED WITH A CONTINUOUS SIX SIDED AIR BARRIER TO CONTROL AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/ASHRAE/USGBC/IES 189.1-2009 NORMATIVE APPENDIX B, "PRESCRIPTIVE CONTINUOUS AIR BARRIER".

2. THE PRIMARY AIR BARRIER MATERIALS ARE LIQUID APPLIED VAPOR PERMEABLE AIR/WEATHER RESISTIVE BARRIER, AND SELF-ADHERED (PEEL AND STICK) MEMBRANE. AIRBARRIER COMPONENT MATERIALS ARE SEALANTS, METAL (EXTERIOR DOORS, WINDOWS,GLAZING, FRAMES AND MECHANICAL LOUVERS WITH TIGHT SEALING MOTORIZED DAMPERS),POURED CONCRETE, FACTORY PREFINISHED PRE-INSULATED METAL WALL PANELS AND EXTERIOR WEATHER STRIPPING AT EXTERIOR DOORS.

3. THE AIR BARRIER SYSTEM CONSISTS OF PRIMARY AIR BARRIER MATERIALS COMBINED WITH AIR BARRIER COMPONENTS. MATERIAL TRANSITIONS SHALL BE FLEXIBLE TO ACCOMMODATE THERMAL AND MOISTURE MOVEMENT WITH ALL MOVEMENT JOINTS SEALED.CONNECTIONS SHALL BE MADE BETWEEN THE POURED CONCRETE FOUNDATION WALLS AND POURED CONCRETE FLOOR SLAB AND THE EXTERIOR WALLS, BETWEEN THE EXTERIOR WALLS AND EXTERIOR DOORS, EXTERIOR WINDOWS AND MECHANICAL LOUVERS, BETWEENTHE EXTERIOR WALLS AND SOFFIT, FASCIA AND ROOF AS FOLLOWS:

A) POURED CONCRETE FLOOR SLAB WITH VAPOR BARRIER TURNED UP POURED CONCRETE SLAB EDGE AND SEALED TO THE FACE OF THE POURED CONCRETE FOUNDATION WALL. THE TOP OF THE POURED CONCRETE FOUNDATION WALL PROVIDES THE CONNCETION BETWEEN THE FLOOR SLAB AND THE EXTERIOR WALL.

B) AT THE 4" CMU AND FACTORY PREFINISHED PREINSULATED METAL WALL PANEL TRANSITION SELF ADHERED (PEEL AND STICK) AIR BARRIER MEMBRANE IS LAPPED VERTICALLY WITH AN 8" LAP OVER THE LIQUID APPLIED VAPOR PERMEABLE AIR BARRIER OF THE WALL. THE BOTTOM OF THE FACTORY PREFINISHED INSULATED METAL WALL PANELS ARE SEALED TO THE TOP OF THE POURED CONCRETE FOUNDATION IN TWO ROWS OF CONTINOUS SEALANT. THE FACTORY PREFINISHED INSULATED METAL WALL PANELS (VAPOR IMPERMEABLE SYSTEM) EXTEND TO THE UNDERSIDE OF ROOF STRUCTURE. PANELS ARE SEALED TO THE EAVE, RAKE OR COPING STRUCTURE. 1

C) AT EXTERIOR DOOR AND WINDOW OPENINGS- ROUGH OPENINGS ARE WRAPPED WITH SELF ADHERED (PEEL AND STICK) MEMBRANE. A MINIMUM 3 INCH LAP OVER THE LIQUID APPLIED VAPOR PERMEABLE AIR/WEATHER RESISTIVE BARRIER/8" CMU AT WINDOW HEADS, JAMBS AND SILLS WILL BE PROVIDED. SELF ADHERED (PEEL AND STICK) AIR BARRIER MEMBRANE WILL BE EXTENDED THROUGH THE ROUGH OPENING TO ABUT THE INTERIOR GLASS MAT GYPSUM WALL BOARD. EXTERIOR METAL DOOR JAMBS ARE SEALED TO THE TOP OF THE POURED CONCRETE FLOOR SLAB WITH CONTINOUS BEADS OF SEALANT. DOOR THRESHOLDS ARE SEALED TO THE POURED CONCRETE FLOOR SLAB WITH CONTINOUS BEADS OF SEALANT. THE METAL DOOR HEADS AND JAM CONNECTIONS TO THE WALLS ARE SEALED TO THE WALL SELF ADHERED AIR BARRIER MEMBRANE.

D) AT EXTERIOR MECHANCIAL LOUVER OPENINGS- ROUGH OPENINGS ARE WRAPPED WITH SELF ADHERED (PEEL AND STICK) AIR BARRIER MEMEBRANE. A MINIMUM 3 INCH LAP OVER THE LIQUID APPLIED VAPOR PERMEABLE AIR /WEATHER RESISTIVE BARRIER/8" CMU AT HEADS,JAMBS AND SILLS WILL BE PROVIDED. SELF ADHERED 9PEEL AND STICK0 AIR BARRIER MEMBRANE WILL BE EXTENDED THROUGH THE ROUGH OPENING. EXTERIOR METAL LOUVER HEADS, JAMBS AND SILL CONNECTIONS TO THE WALLS ARE SEALED TO THE WALL AIR BARRIER MEMBRANE. LOUVERS ARE PROVIDED WITH TIGHT SEALING MOTORIZED DAMPERS.

E) ALL JOINTS AT OPENINGS,TRANSITIONS AND PENETRATIONS SHALL BE SEALED WITH BACKER ROD AND SEALANT.

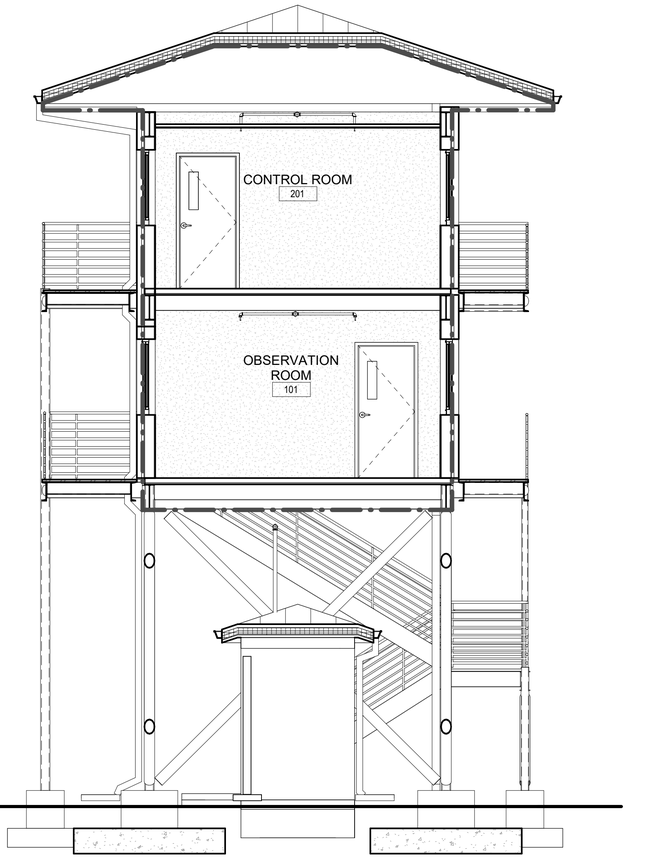
F) ALL ELECTRICAL,PLUMBING AND MECHANCIAL PENETRATIONS SHALL BE SEALED TO THE AIR BARRIER IN ACCORDANCE WITH THE AIR BARRIER MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES

1. AIR BARRIER INSTALLATION AND INSPECTION ARE PART OF CONSTRUCTION. TESTING OF AIR BARRIER IS NOT REQUIRED. 1
2. INSIDE AND OUTSIDE CORNERS AND JOINTS BETWEEN METAL FURRING SHALL BE SEALED IN ACCORDANCE WITH THE PRIMARY AIR BARRIER MANUFACTURER'S RECOMMENDATIONS.
3. ALL JOINTS AT OPENINGS, TRANSITIONS, AND PENETRATIONS SHALL BE SEALED WITH BACKER ROD AND SEALANT.
4. ALL ELECTRICAL, PLUMBING, AND MECHANICAL PENETRATIONS SHALL BE SEALED TO THE AIR BARRIER IN ACCORDANCE WITH THE AIR BARRIER MANUFACTURER'S RECOMMENDATIONS.

LEGEND

INDICATES BOUNDARY OF AIR BARRIER



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

3 BUILDING CROSS SECTION AIR BARRIER
1/4" = 1'-0"

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE
1	REVISED IN ACCORDANCE WITH AMENDMENT 0003	11 AUG 2023

DESIGN BY: T. ODELL	ISSUE DATE: JUNE 2023
DRAWN BY: T.ODELL	SOLICITATION NO.: W912HN-22-R-3001
CHECKED BY: P. SULLIVAN	CONTRACT NO.:
SUBMITTED BY: J DEACON	CATEGORY CODE: 178-65-01
SIZE: ANSI D	FILE NAME:

U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT
100 W. OGLETHORPE AVE.
SAVANNAH, GA 31401

FORT LIBERTY, NORTH CAROLINA
AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTR)
FY23, PN 98182
VOLUME 2 - BUILDING

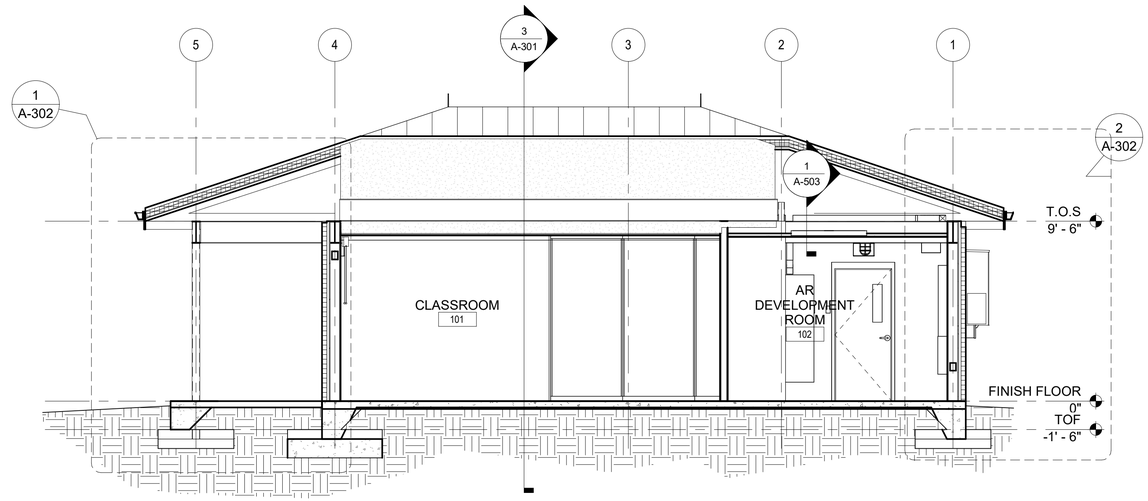
CONTROL TOWER AIR BARRIER BOUNDARY

SHEET ID
BLDG 1
A-701

File Path: C:\Users\K6ENXT09\Documents\FY23_PN98182_MPTR-TOWER_ARCH_R21_K6ENXT09.rvt

Plot Date: 8/9/2023 3:56:36 PM

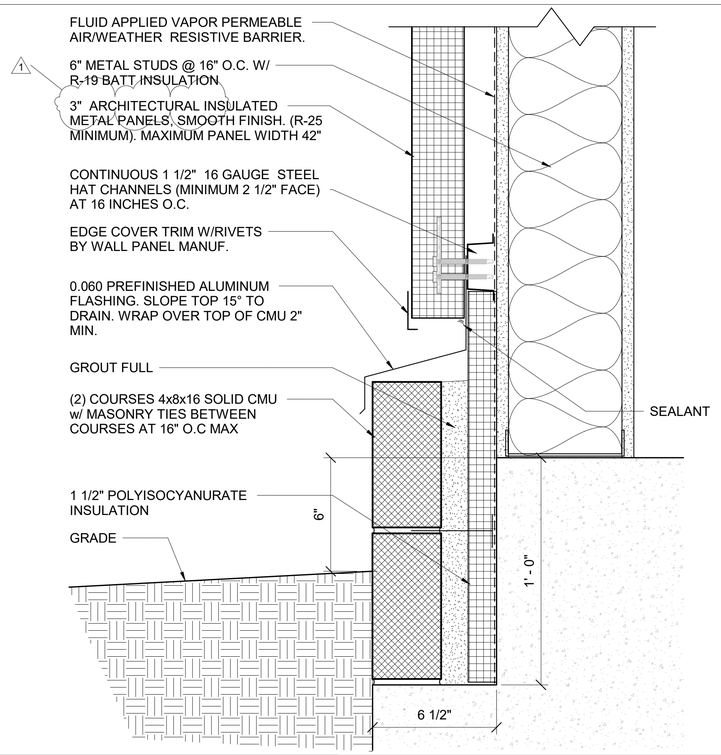
READY TO ADVERTISE (RTA)



1 AAR EAST-WEST BLDG SECTION

1/4" = 1'-0"

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

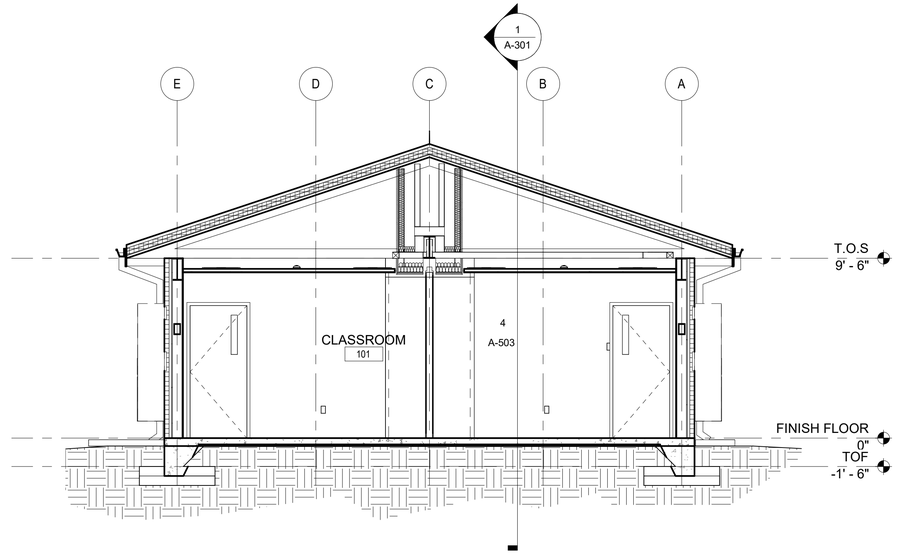


2 EXTERIOR WALL BASE

3" = 1'-0"

6" 4 2 0 6"

SCALE: 3"=1'-0"



3 AAR NORTH-SOUTH BLDG SECTION

1/4" = 1'-0"

4 3 2 1 0 4 8

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

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE
1	REVISED IN ACCORDANCE WITH AMENDMENT 0003	11 AUG 2023

ISSUE DATE: JUNE 2023
SOLICITATION NO.: W912HN-22-B-3001
CONTRACT NO.:
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FILE NAME:

DESIGN BY: T.ODELL
DRAWN BY: T.ODELL
CHECKED BY: P. SULLIVAN
SUBMITTED BY: J. DEACON
SIZE: ANSI D

U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT
100 W. OGLETHORPE AVE.
SAVANNAH, GA 31401

FORT LIBERTY, NORTH CAROLINA
AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTR)
FY23, PN 96182
VOLUME 2 - BUILDING

AAR BUILDING CROSS & LONGITUDINAL SECTION

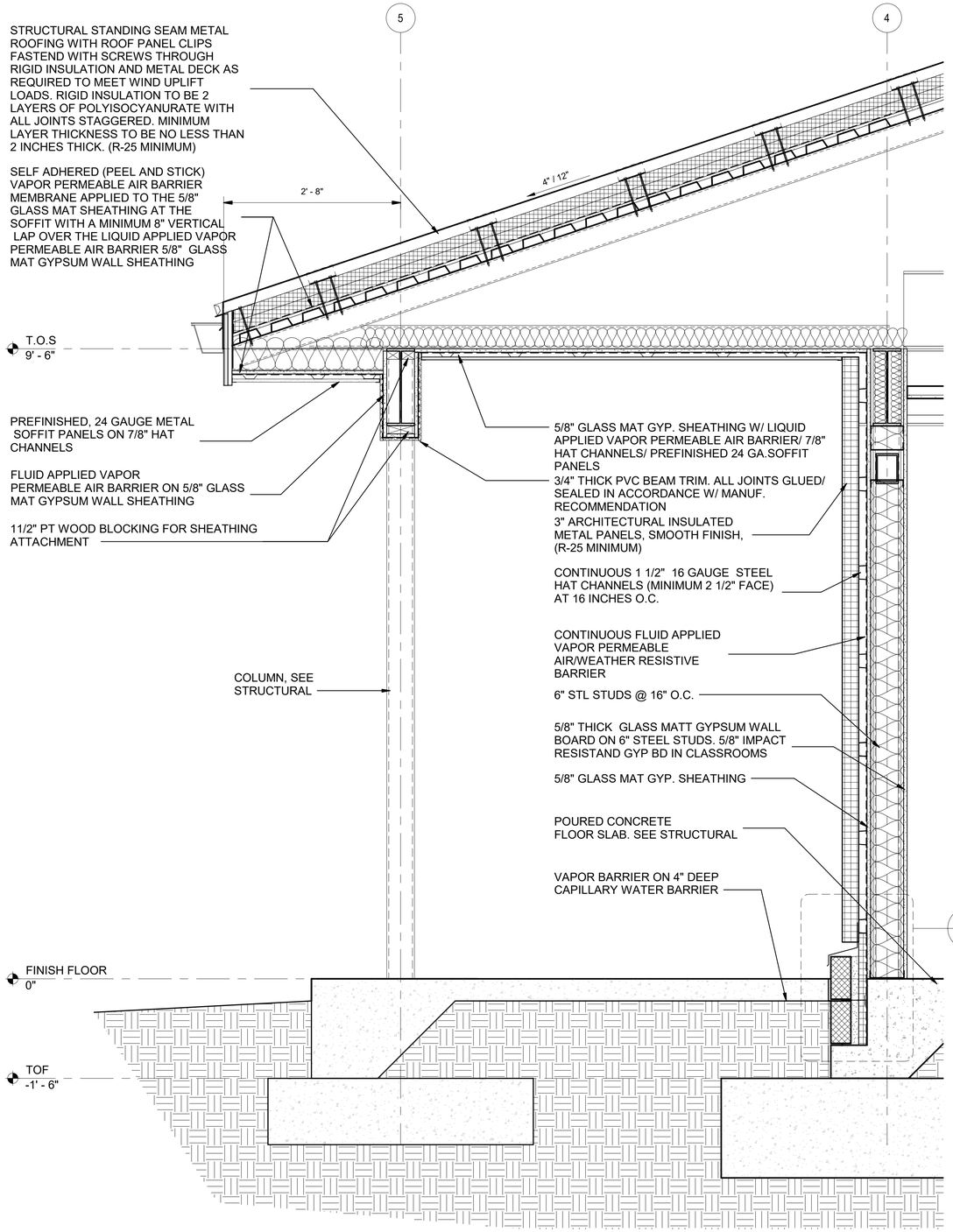
SHEET ID
BLDG 2
A-301

File Path: C:\Users\K6ENXTO9\Documents\FY23_PN96182_MPTR-AAR_ARCH_R21_K6ENXTO9.rvt

8/9/2023 3:49:36 PM

Plot Date: 8/9/2023 3:49:36 PM

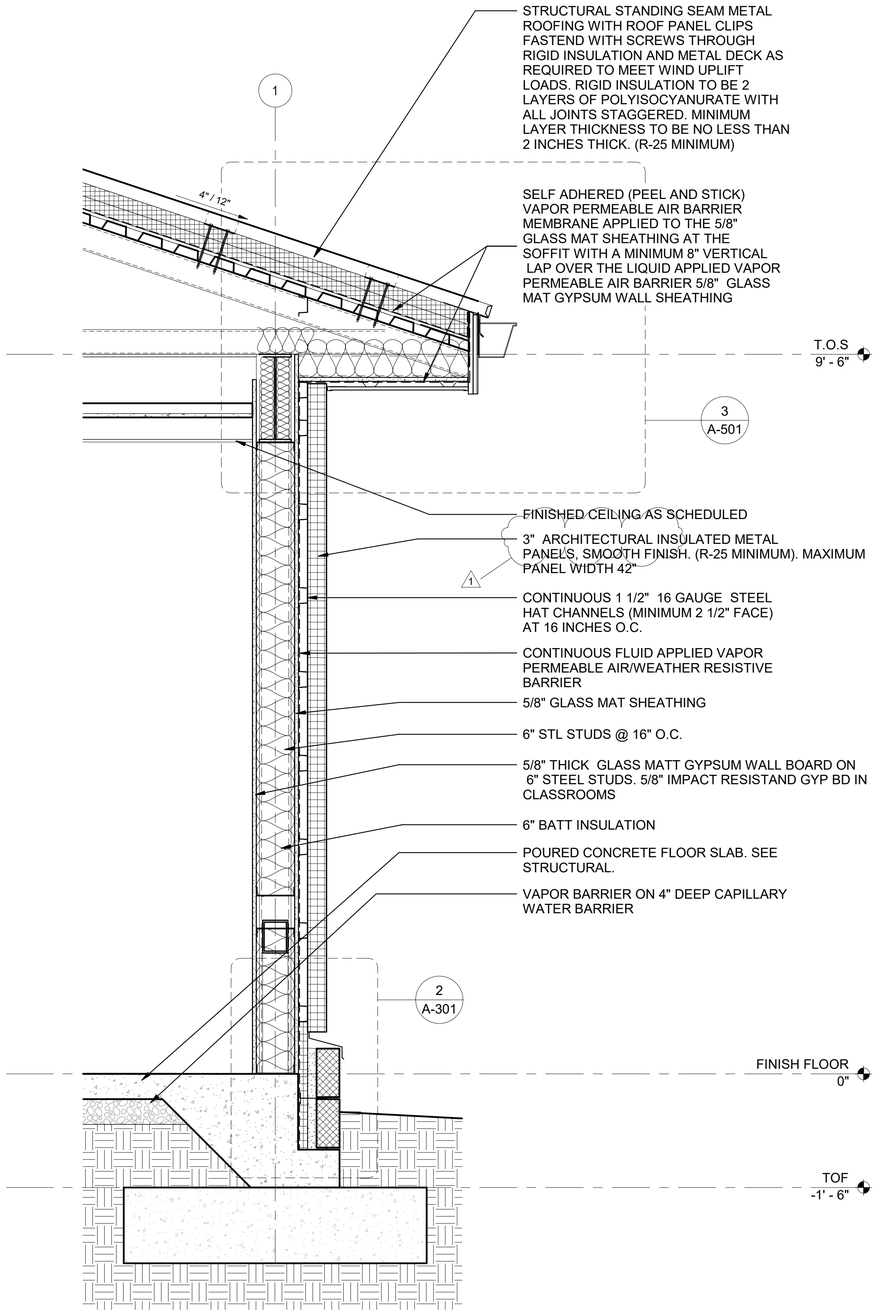
READY TO ADVERTISE (RTA)



1 AAR WALL SECTION 1

1" = 1'-0"

SCALE: 1"=1'-0"



2 AAR WALL SECTION 2

1" = 1'-0"

SCALE: 1"=1'-0"

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE
1	REVISED IN ACCORDANCE WITH AMENDMENT 0003	11 AUG 2023

DESIGN BY: T.ODELL	ISSUE DATE: JUNE 2023
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CHECKED BY: P. SULLIVAN	CONTRACT NO.: -
SUBMITTED BY: J. DEACON	CATEGORY CODE: 178-85-01
SIZE: ANSI D	FILE NAME:

U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT 100 W. OGLETHORPE AVE. SAVANNAH, GA 31401

FORT LIBERTY, NORTH CAROLINA
AUTOMATED MULTIPURPOSE MACHINE GUN RANGE (MPTR)
FY23, PN 98182
VOLUME 2 - BUILDING

AAR WALL SECTIONS

SHEET ID
BLDG 2
A-302

READY TO ADVERTISE (RTA)

File Path: C:\Users\K6ENXT09\Documents\FY23_PN98182_MPTR-AAR_ARCH_R21_K6ENXT09.rvt

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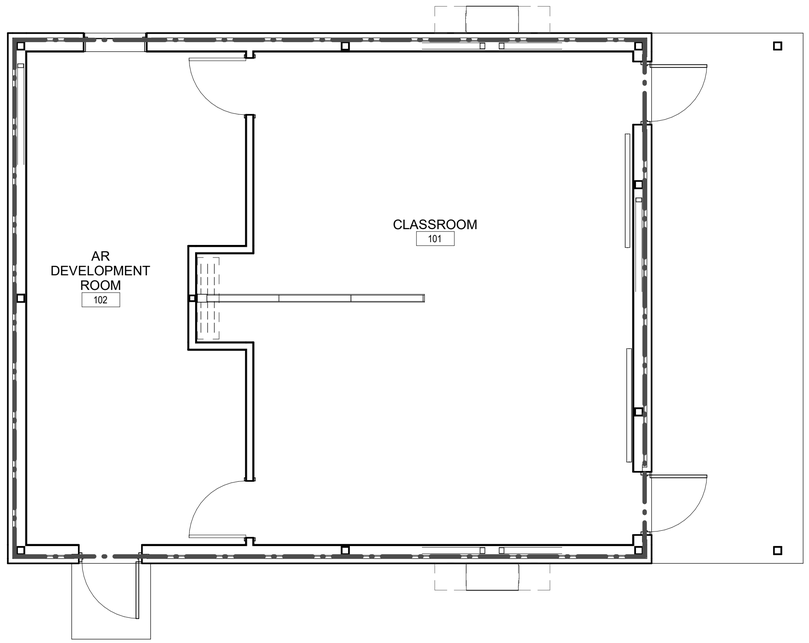
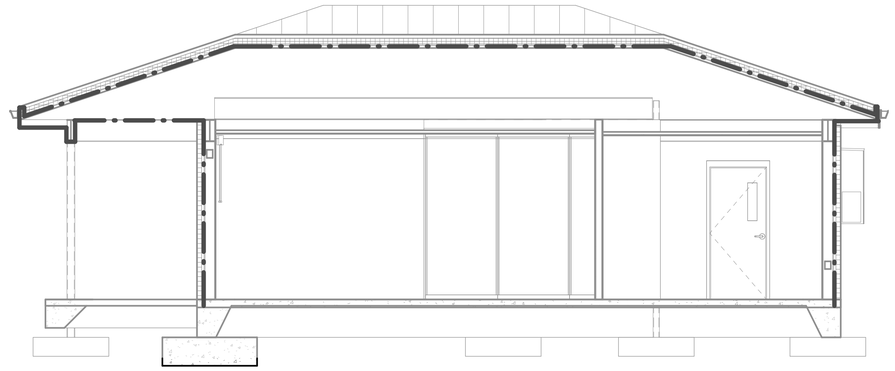


1 AIR BARRIER BOUNDERY PLAN
1/4" = 1'-0"

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



2 AAR EAST-WEST BLDG SECTION
1/4" = 1'-0"

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

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LEGEND

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B) AT THE 4" CMU AND FACTORY PREFINISHED PREINSULATED METAL WALL PANEL TRANSITION SELF ADHERED (PEEL AND STICK) AIR BARRIER MEMBRANE IS LAPPED VERTICALLY WITH AN 8" LAP OVER THE LIQUID APPLIED VAPOR PERMEABLE AIR BARRIER OF THE WALL. THE BOTTOM OF THE FACTORY PREFINISHED INSULATED METAL WALL PANELS ARE SEALED TO THE TOP OF THE POURED CONCRETE FOUNDATION IN TWO ROWS OF CONTINOUS SEALANT. THE FACTORY PREFINISHED INSULATED METAL WALL PANELS (VAPOR IMPERMEABLE SYSTEM) EXTEND TO THE UNDERSIDE OF ROOF STRUCTURE. PANELS ARE SEALED TO THE EAVE, RAKE OR COPING STRUCTURE.

C) AT EXTERIOR DOOR AND WINDOW OPENINGS- ROUGH OPENINGS ARE WRAPPED WITH SELF ADHERED (PEEL AND STICK) MEMBRANE. A MINIMUM 3 INCH LAP OVER THE LIQUID APPLIED VAPOR PERMEABLE AIR/WEATHER RESISTIVE BARRIER/8" CMU AT WINDOW HEADS, JAMBS AND SILLS WILL BE PROVIDED. SELF ADHERED (PEEL AND STICK) AIR BARRIER MEMBRANE WILL BE EXTENDED THROUGH THE ROUGH OPENING TO ABUT THE INTERIOR GLASS MAT GYPSUM WALL BOARD. EXTERIOR METAL DOOR JAMBS ARE SEALED TO THE TOP OF THE POURED CONCRETE FLOOR SLAB WITH CONTINOUS BEADS OF SEALANT. DOOR THRESHOLDS ARE SEALED TO THE POURED CONCRETE FLOOR SLAB WITH CONTINOUS BEADS OF SEALANT. THE METAL DOOR HEADS AND JAM CONNECTIONS TO THE WALLS ARE SEALED TO THE WALL SELF ADHERED AIR BARRIER MEMBRANE.

D) AT EXTERIOR MECHANCIAL LOUVER OPENINGS- ROUGH OPENINGS ARE WRAPPED WITH SELF ADHERED (PEEL AND STICK) AIR BARRIER MEMEBRANE. A MINIMUM 3 INCH LAP OVER THE LIQUID APPLIED VAPOR PERMEABLE AIR /WEATHER RESISTIVE BARRIER/8" CMU AT HEADS,JAMBS AND SILLS WILL BE PROVIDED. SELF ADHERED 9PEEL AND STICK0 AIR BARRIER MEMBRANE WILL BE EXTENDED THROUGH THE ROUGH OPENING. EXTERIOR METAL LOUVER HEADS, JAMBS AND SILL CONNECTIONS TO THE WALLS ARE SEALED TO THE WALL AIR BARRIER MEMBRANE. LOUVERS ARE PROVIDED WITH TIGHT SEALING MOTORIZED DAMPERS.

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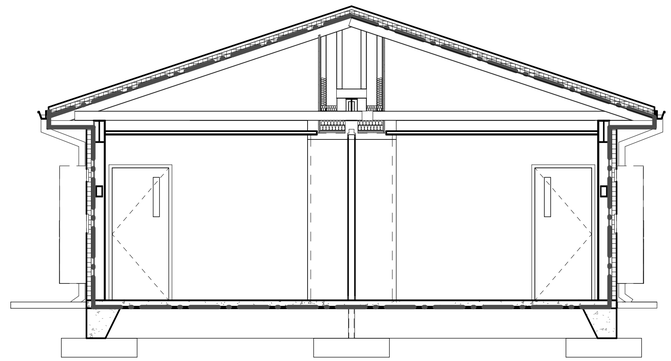


3 AAR NORTH-SOUTH BLDG SECTION
1/4" = 1'-0"

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

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE
1	REVISED IN ACCORDANCE WITH AMENDMENT 0003	11 AUG 2023

DESIGN BY:	ISSUE DATE:
T.ODELL	JUNE 2023
DRAWN BY:	SOLICITATION NO.:
T.ODELL	W91PHN-23-B-3001
CHECKED BY:	CONTRACT NO.:
P. SULLIVAN	
SUBMITTED BY:	CATEGORY CODE:
J. DEACON	178-65-01
SIZE:	FILE NAME:
ANSI D	

U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT
100 W. OGLETHORPE AVE.
SAVANNAH, GA 31401

FORT LIBERTY, NORTH CAROLINA
AUTOMATED MULTIPURPOSE MACHINE GUN RANGE (MPTR)
FY23, PN 96182
VOLUME 2 - BUILDING

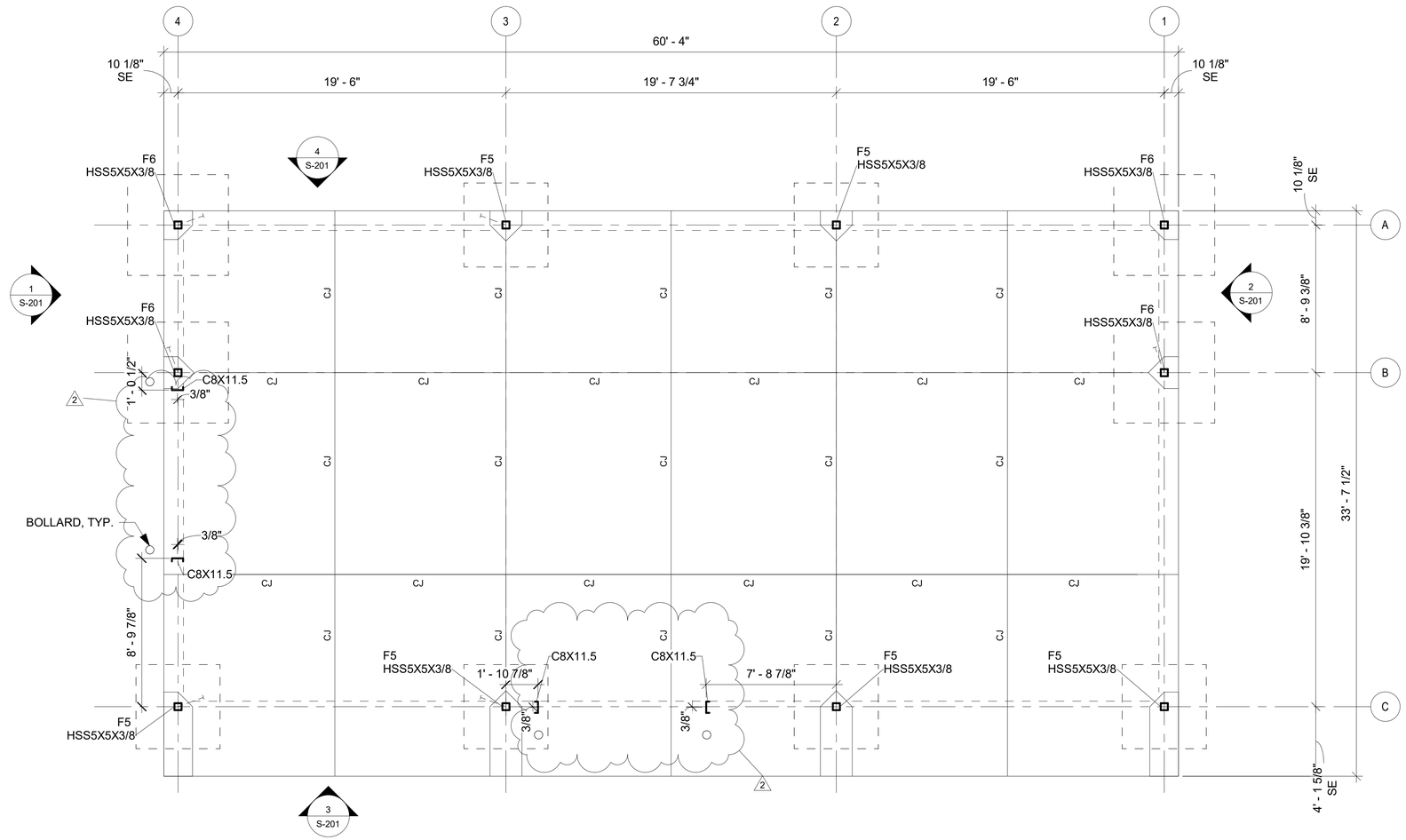
AAR AIR BARRIER BOUNDERY FLOOR PLAN & BUILDING SECTIONS

SHEET ID
BLDG 2
A-701

READY TO ADVERTISE (RTA)

Plot Date: 8/9/2023 3:51:17 PM

File Path: C:\Users\K6ENXTO9\Documents\FY23_PN96182_MPTR-AAR_ARCH_R21_K6ENXTO9.rvt



1 FOUNDATION PLAN

1/4" = 1'-0"

GENERAL SHEET NOTES

FOUNDATION AND SLAB PLAN NOTES:

1. FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS, SEE S-001 AND FOLLOWING.
2. TOP OF CONCRETE SLAB-ON-GRADE ELEVATION = 0'-0". ALL ELEVATIONS INDICATED FROM THIS DATUM. SEE CIVIL DRAWINGS FOR EXACT ELEVATION.
3. TOP OF FTG = (-) 1'-6" UNO.
4. ALL FOOTINGS SHALL BE CENTERED UNDER COLUMNS.
5. SLAB-ON-GRADE SHALL CONSIST OF 5" THICK CONCRETE REINFORCED WITH 6X6 W2.9XW2.9 WWF LOCATED AT 1/3-DEPTH FROM TOP OF SLAB.
6. PROVIDE (1) #5 X 4'-0" LONG AT TOP AND BOTTOM IN SLAB-ON-GRADE AT ALL RE-ENTRANT CORNERS AND WHERE A CONTROL JOINT TERMINATES AT A JOINT.
7. SLAB-ON-GRADE SHALL BEAR ON 10 MIL VAPOR RETARDER ON CAPILLARY WATER BARRIER ON PROPERLY PREPARED SUBGRADE OR COMPACTED FILL.
8. CONTROL JOINT LOCATIONS ARE DIAGRAMMATIC ONLY AND DO NOT REPRESENT ALL JOINTS REQUIRED FOR SLAB CONSTRUCTION. CONTRACTOR SHALL COORDINATE SLAB-ON-GRADE REQUIREMENTS WITH SLAB-ON-GRADE CONSTRUCTION SEQUENCING AND SLAB DETAILS. SPACING SHALL NOT EXCEED MAXIMUM JOINT SPACING PER ACI REQUIREMENTS.
9. COORDINATE UNDERGROUND UTILITY LINES WITH CIVIL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS PRIOR TO CONSTRUCTION OF FOOTINGS AND SLABS-ON-GRADE.
10. WITHIN THE AREA OF THE BUILDING FOOTINGS, THE SOILS SHALL BE TESTED FOR IN-SITU ALLOWABLE BEARING PRESSURE BY METHOD OF HAND AUGER AND DYNAMIC CONE PENETROMETER METHOD, IN ACCORDANCE WITH ASTM SPECIAL TECHNICAL PUBLICATION #399. SOILS WHICH ARE IDENTIFIED TO HAVE A NET ALLOWABLE BEARING PRESSURE BELOW 3,000 PSF, OR WHICH ARE DEEMED TO BE UNSATISFACTORY FOR OTHER REASONS (E.G., EXCESSIVE DEBRIS OR ORGANIC CONTENT), SHALL BE OVER-EXCAVATED AND REPLACED WITH ADDITIONAL CONCRETE DURING THE CONCRETING OR REPLACED TO DESIGN SUBGRADE WITH NO. 57 OR NO. 67 STONE, COMPACTED TO A NON-YIELDING CONDITION. OVER-EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH EM 385-1-1 AND OSHA 29 CFR 1926.652. BACKFILLING SHALL BE IN ACCORDANCE WITH SECTION 31 00 00, EARTHWORK. IT IS POSSIBLE THAT PERCHED GROUNDWATER WILL BE ENCOUNTERED DURING OVER-EXCAVATION. DEWATERING SHOULD BE DONE INACCORDANCE WITH SPECIFICATIONS.
11. DIMENSIONS TO CHANNELS ARE TO BACK FACE OF CHANNEL.

2

NORTH ARROW

PLAN NORTH

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE
2	REVISED IN ACCORDANCE WITH AMENDMENT 0003	11 AUG 2023

DESIGN BY: A. SCOTT	ISSUE DATE: AUGUST 2023
DRAWN BY: A. SCOTT	SOLICITATION NO.: W91PHN-23-B-3001
CHECKED BY: J. WHITTAKER	CONTRACT NO.:
SUBMITTED BY: J. DEACON	CATEGORY CODE: 178-65-01
SIZE: ANSI D	FILE NAME:

U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT
100 W. OGLETHORPE AVE.
SAVANNAH, GA 31401

FORT LIBERTY, NORTH CAROLINA
AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTR)
FY23, PN 96182
VOLUME 2 - BUILDING

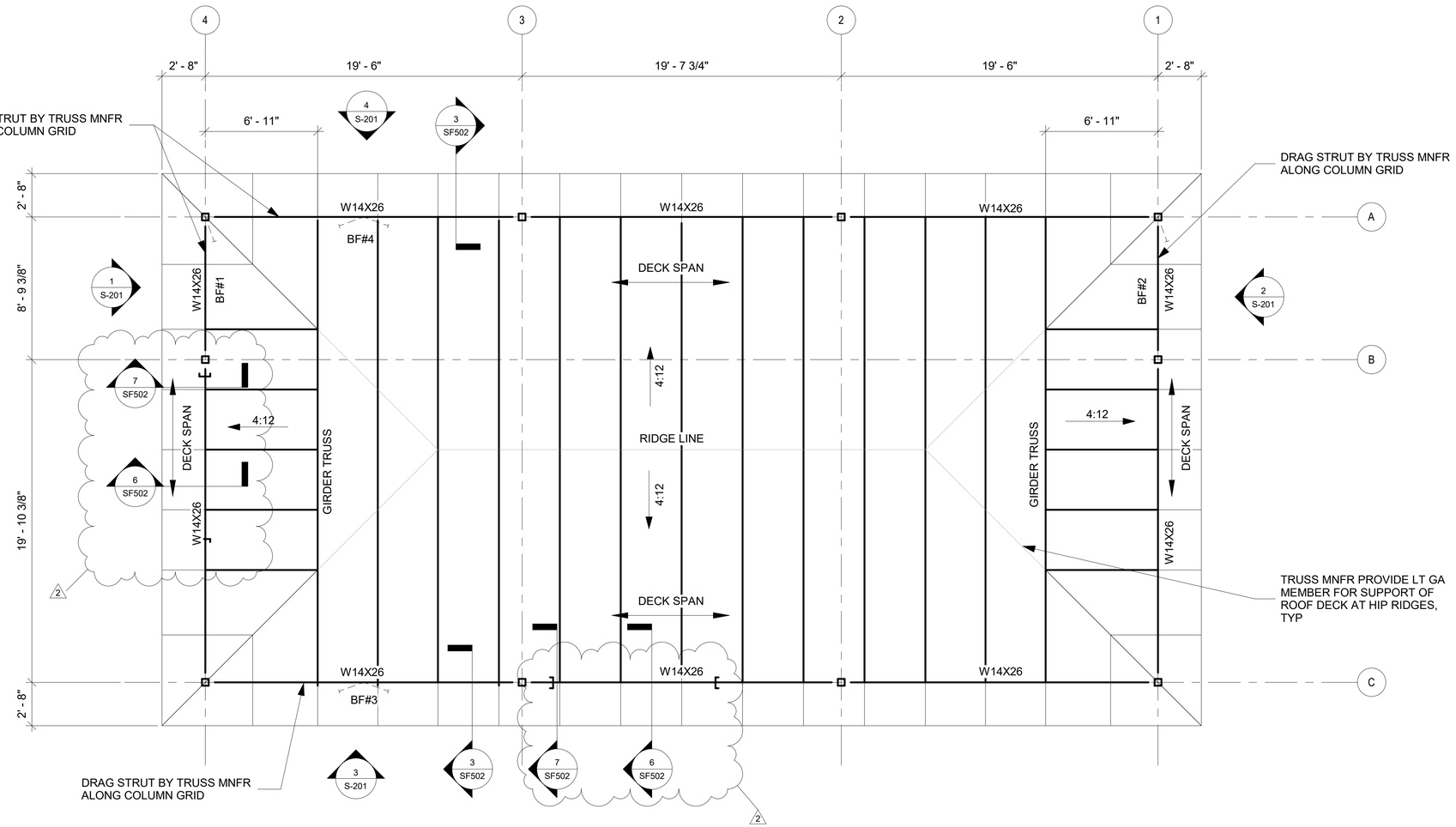
OPERATIONS/STORAGE BUILDING FOUNDATION PLAN

SHEET ID
BLDG 3
S-101

Plot Date: 8/10/2023 9:50:28 AM

File Path: C:\Users\k6endhrh\Documents\FY23_PN96182_MPTR-STORAGE_STRUCT_R21_k6endhrh.rvt

READY TO ADVERTISE (RTA)



GENERAL SHEET NOTES

FRAMING PLAN NOTES:

1. FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS, SEE S-001 AND FOLLOWING.
2. TOP OF STEEL FOR TRUSS BEARING SHALL BE (+) 12'-0" UNO.
3. ROOF DECK SHALL BE 1.5B22 GAUGE METAL DECK WITH A 36/4 FASTENING PATTERN WITH 4 SIDELAPS. SUPPORT FASTENERS ARE TO BE #12 TEK SCREWS AND SIDELAP FASTENERS ARE TO BE #12 TEK SCREWS.
4. COLD FORMED STEEL TRUSS SPACING SHALL NOT EXCEED 4'-0" OC UNO.
5. ◄——— DENOTES ROOF SLOPE. SEE ARCHITECTURAL.
6. TRUSSES SHALL BE DESIGNED BY THE TRUSS MNFR TO TRANSFER 320 LBS (ULTIMATE) HORIZONTAL SHEAR FROM THE BEAMS DUE TO WIND LOAD ON WALL. CONNECTION TO BEAMS SHALL BE BY THE TRUSS MNFR.
7. DRAG STRUTS ALONG ALL ROOF EAVES SHALL BE DESIGNED AND PROVIDED BY THE TRUSS MNFR TO TRANSFER 250 PLF HORIZONTAL SHEAR TO BEAMS. CONNECTION TO BEAMS SHALL BE BY TRUSS MNFR.
8. PROVIDE CONT 4X4X5/16" BENT PLATE AT ALL RIDGES.
9. AT THE EDGE OF ROOF DECK PROVIDE CONT. BENT PLATE CLOSURE AS DETAILED ON 1/SF502.
10. COORDINATE ALL ROOF DIMENSIONS, ELEVATIONS, OPENINGS AND PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. SEE ARCHITECTURAL FOR ROOF PENETRATION WATERPROOFING DETAILS.

NORTH ARROW

PLAN NORTH

1 ROOF FRAMING PLAN
1/4" = 1'-0"

4 3 2 1 0 4 8

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE
2	REVISED IN ACCORDANCE WITH AMENDMENT 0003	11 AUG 2023

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DRAWN BY: A. SCOTT	SOLICITATION NO.: W912HN-23-B-3001
CHECKED BY: J. WHITTAKER	CONTRACT NO.:
SUBMITTED BY: J. DEACON	CATEGORY CODE: 178-65-01
SIZE: ANSI D	FILE NAME:

U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT
100 W. OGLETHORPE AVE.
SAVANNAH, GA 31401

FORT LIBERTY, NORTH CAROLINA
AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTR)
FY23, PN 96182
VOLUME 2 - BUILDING

OPERATIONS/STORAGE BUILDING ROOF FRAMING PLAN

SHEET ID
BLDG 3
S-102

File Path: C:\Users\k6endhrh\Documents\FY23_PN96182_MPTR-STORAGE_STRUCT_R21_k6endhrh.rvt

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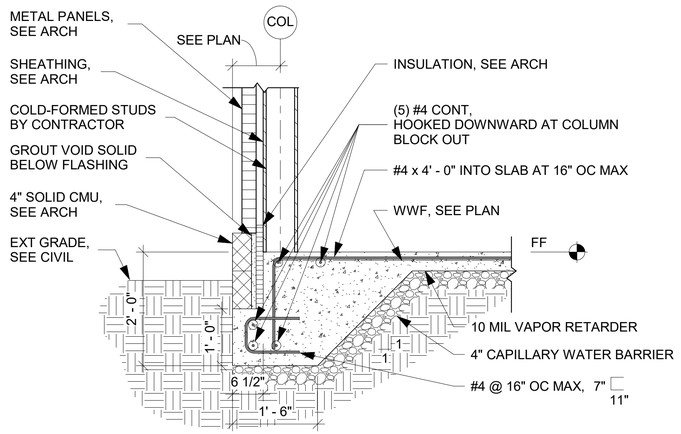
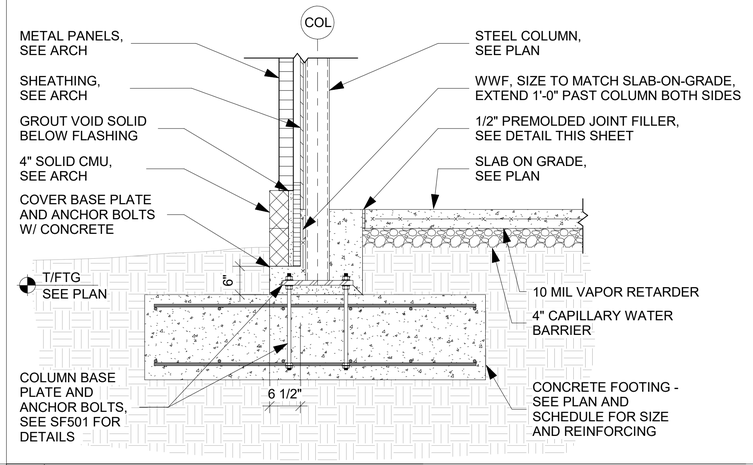


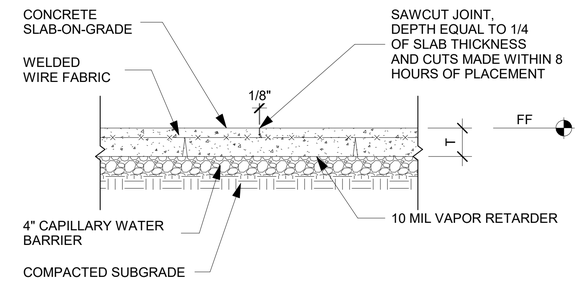
1 TYPICAL SLAB EDGE DETAIL

3/4" = 1'-0"



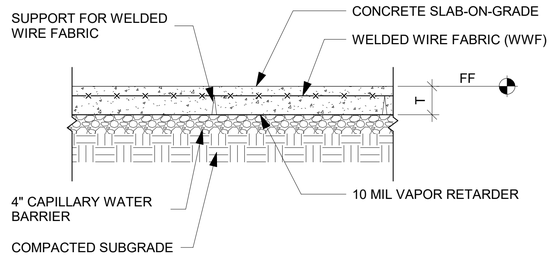
2 TYPICAL EXTERIOR COLUMN FOOTING

3/4" = 1'-0"



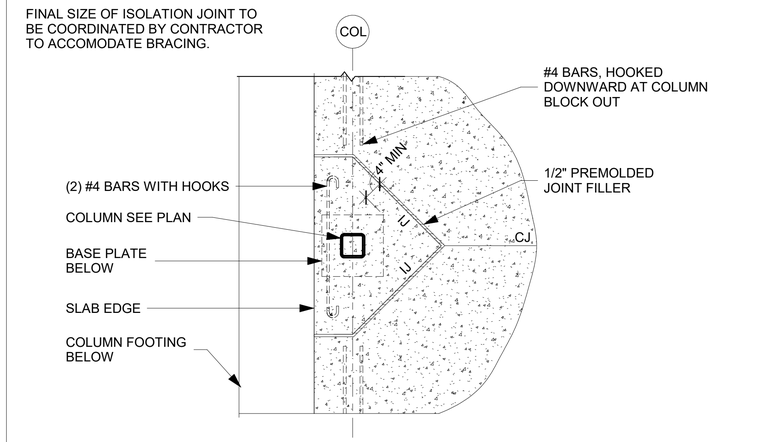
3 TYPICAL SAWED CONTRACTION JOINT DETAIL (CJ)

3/4" = 1'-0"



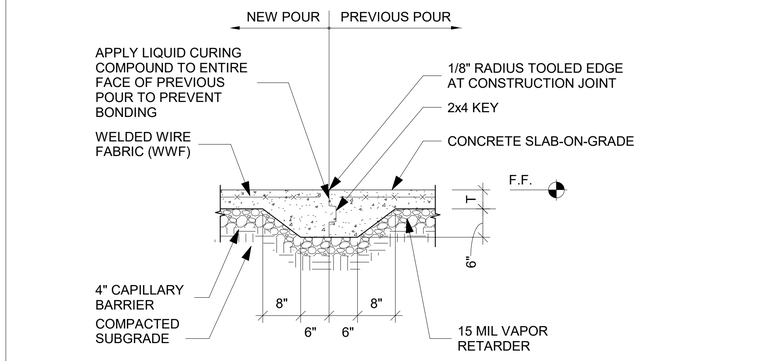
4 TYPICAL SLAB ON GRADE DETAIL

3/4" = 1'-0"



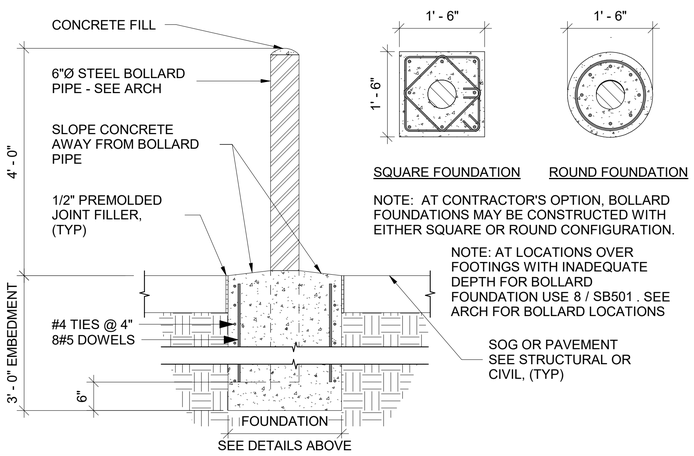
5 TYPICAL EXTERIOR COLUMN PLAN VIEW

3/4" = 1'-0"



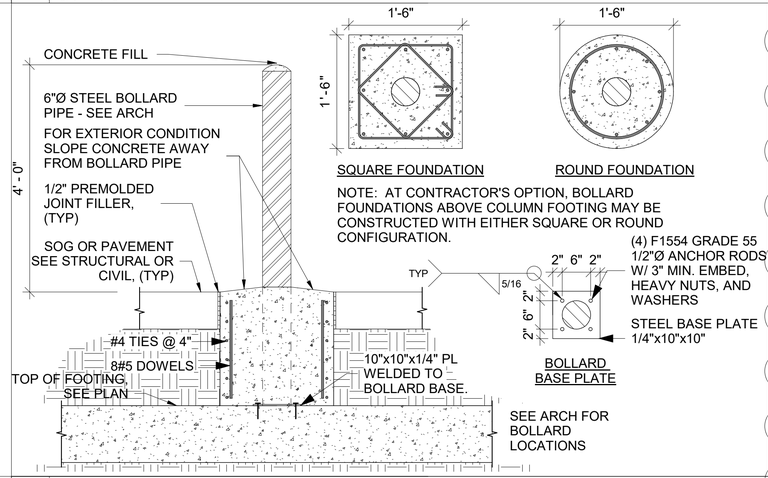
6 TYPICAL SOG SHEAR KEY CONSTR JOINT DETAIL

3/4" = 1'-0"



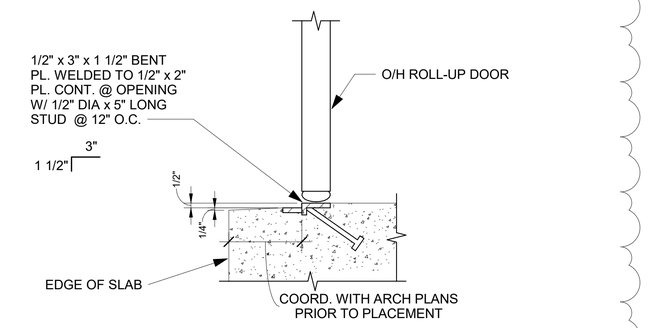
7 TYPICAL BOLLARD FOUNDATION DETAIL

3/4" = 1'-0"



8 TYPICAL BOLLARD @ COLUMN FOOTINGS

3/4" = 1'-0"



9 TYPICAL DETAIL AT OVERHEAD DOOR

1 1/2" = 1'-0"

US Army Corps of Engineers ®

MARK	DATE
2	11 AUG 2023

REVISED IN ACCORDANCE WITH AMENDMENT 0003

DESIGN BY: A. SCOTT	ISSUE DATE: AUGUST 2023
DRAWN BY: A. SCOTT	SOLICITATION NO.: W912HN-23-B-3001
CHECKED BY: J. WHITTAKER	CONTRACT NO.:
SUBMITTED BY: J. DEACON	CATEGORY CODE: 178-65-01
SIZE: ANSI D	FILE NAME:

U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT 100 W. OGLETHORPE AVE. SAVANNAH, GA 31401

FORT LIBERTY, NORTH CAROLINA
AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTR)
FY23, PN 96182
VOLUME 2 - BUILDING

OPERATIONS/STORAGE BUILDING FOUNDATION AND SLAB DETAILS

SHEET ID
BLDG 3
SB501

READY TO ADVERTISE (RTA)

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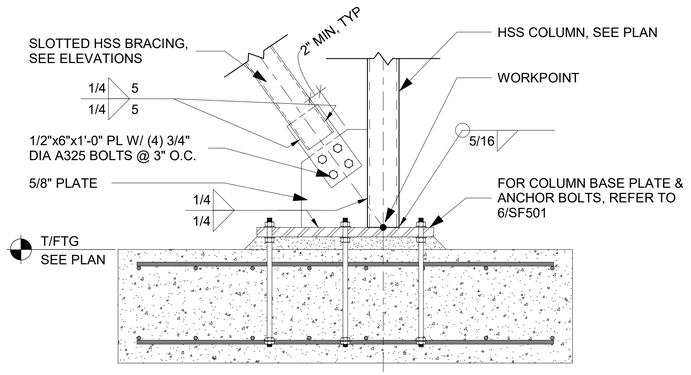
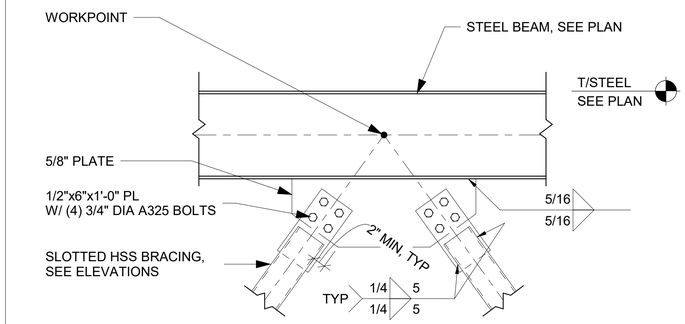
Plot Date: 8/10/2023 9:50:29 AM



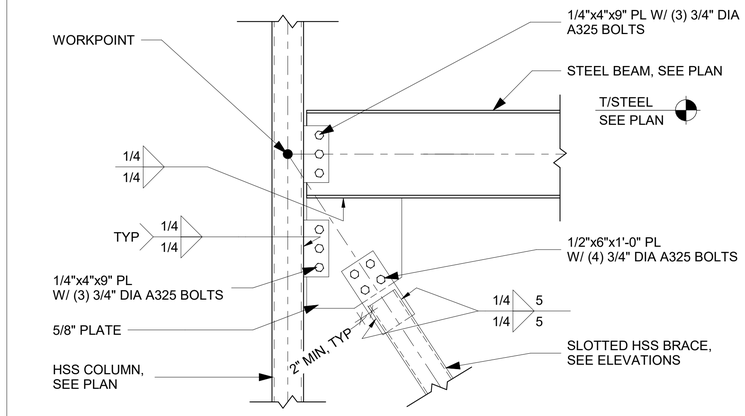
1 HSS BRACE AT BASE OF HSS COLUMN

1" = 1'-0"



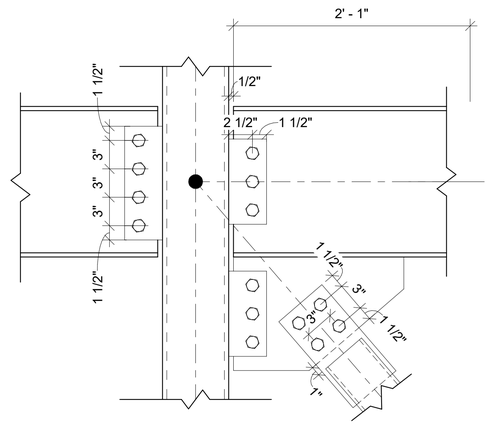
2 HSS BRACE AT MID-SPAN, SECOND FLOOR

1" = 1'-0"



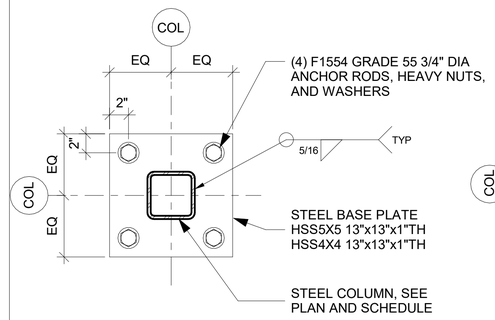
3 HSS BRACE AT HSS COLUMN, SECOND FLOOR

1" = 1'-0"

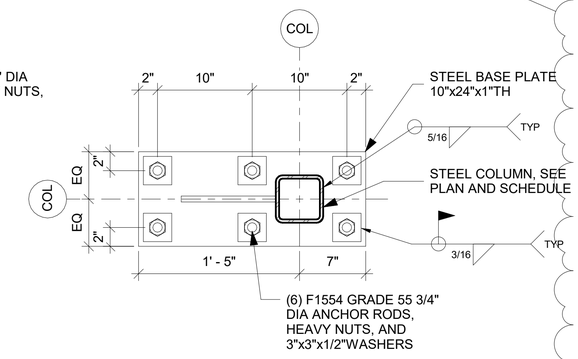


4 TYPICAL CONNECTION DIMENSIONING

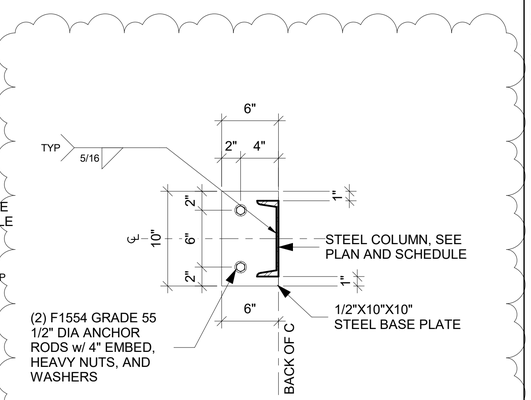
1 1/2" = 1'-0"



UNBRACED HSS COLUMN BASE PLATE



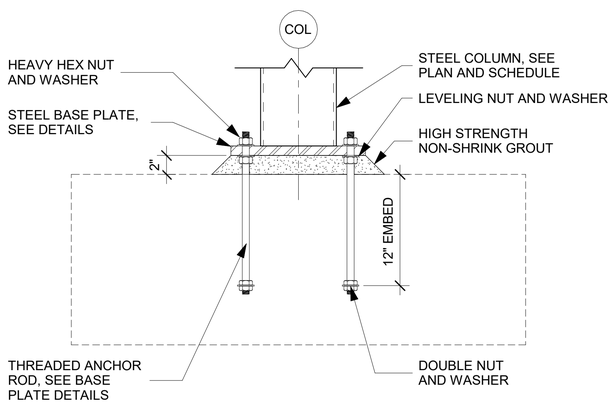
BRACED COLUMN BASE PLATE



CHANNEL JAMB BASE PLATE AT OVERHEAD DOOR

5 BASE PLATE DETAILS

1 1/2" = 1'-0"



6 ANCHOR ROD DETAIL

1 1/2" = 1'-0"

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MARK	DATE	DESCRIPTION
2	11 AUG 2023	REVISED IN ACCORDANCE WITH AMENDMENT 0003

DESIGN BY:	ISSUE DATE:
A. SCOTT	AUGUST 2023
DRAWN BY:	SOLICITATION NO.:
A. SCOTT	W912HN-23-B-3001
CHECKED BY:	CONTRACT NO.:
J. WHITTAKER	
SUBMITTED BY:	CATEGORY CODE:
J. DEACON	178-65-01
SIZE:	FILE NAME:
ANSI D	

U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT
100 W. OGLETHORPE AVE.
SAVANNAH, GA 31401

FORT LIBERTY, NORTH CAROLINA
AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTR)
FY23, PN 98182
VOLUME 2 - BUILDING

OPERATIONS/STORAGE BUILDING FRAMING DETAILS

SHEET ID
BLDG 3
SF501

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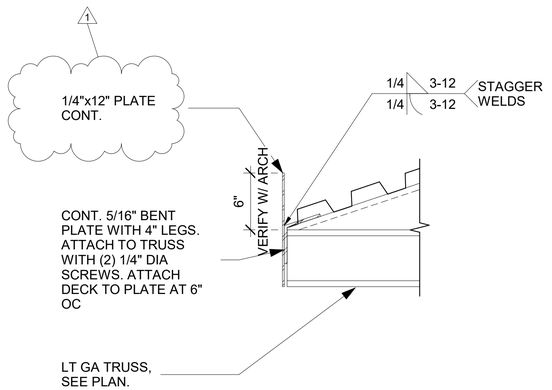
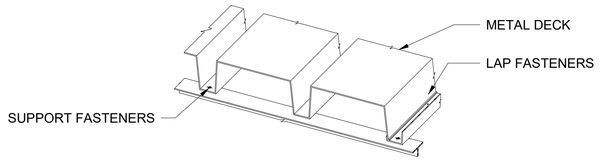
Plot Date: 8/10/2023 9:50:29 AM



1 TYPICAL EAVE PLATE DETAIL

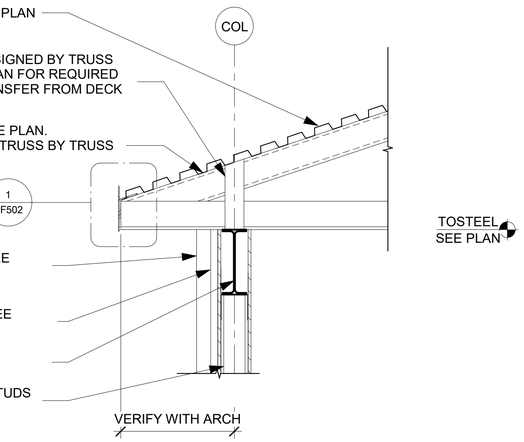
1 1/2" = 1'-0"

MINIMUM PROPERTIES OF METAL DECK	
METAL DECK	(ROOF DECK) 1.5 TYPE B
GAGE	22
MOMENT OF INERTIA OF STEEL SECTION, Ip (IN4)	0.155
SECTION MODULUS OF STEEL SECTION POSITIVE BENDING, Sp (IN3)	0.186
MOMENT OF INERTIA OF STEEL SECTION, In (IN4)	0.183
SECTION MODULUS OF STEEL SECTION POSITIVE BENDING, Sn (IN3)	0.192



2 TYPICAL METAL DECK PROPERTIES

NOT TO SCALE



3 TYPICAL WALL SECTION AT ROOF

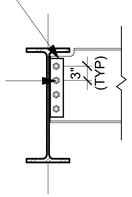
3/4" = 1'-0"

DELEGATE ENGINEER SHALL DESIGN WELDS TO DEVELOP 100% OF THE BEAM REACTIONS SHOWN IN THE STEEL BEAM REACTION SCHEDULE

3/4" DIA, A325 BOLTS IN SLOTTED HOLES WITH BEARING TYPE CONNECTIONS AS REQUIRED BY AISC STANDARD CONNECTION DESIGN. DELEGATE ENGINEER SHALL DESIGN THE BOLTS, ANGLES, AND WELDS TO DEVELOP 100% OF THE BEAM REACTIONS SHOWN IN THE STEEL BEAM REACTION SCHEDULE.

PROVIDE A MINIMUM OF (2) BOLTS AT ALL BEAM CONNECTIONS.

NOTE TO STEEL DETAILER: BOLTS SHOWN IN THIS DETAIL ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL QUANTITY OF BOLTS TO BE DETERMINED BY CONNECTION DESIGNER.



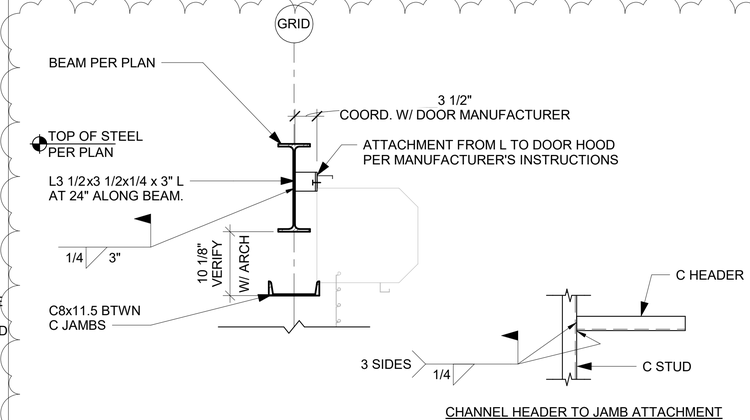
STEEL BEAM CONNECTION SCHEDULE	
BEAM SIZE	FACTORED DESIGN REACTION
W14X26	12 KIPS

STEEL BEAM CONNECTION DESIGN NOTES:

1. SEE GENERAL NOTES SHEET S-001 AND SPECIFICATION SECTION 05 12 00 FOR ADDITIONAL INFORMATION.
2. THE EFFECT OF CAMBER SETTLING SHALL BE CONSIDERED BY STEEL SUPPLIER IN BEAM CONNECTION DESIGN. HORIZONTAL SLOTTED HOLE MAY BE REQUIRED AT ANGLE CONNECTIONS TO ACCOUNT FOR BEAM HORIZONTAL MOVEMENT.
3. SEE FRAMING ELEVATION SHEETS FOR ADDITIONAL INFORMATION AT MOMENT CONNECTIONS.

4 STEEL BEAM CONNECTION SCHEDULE

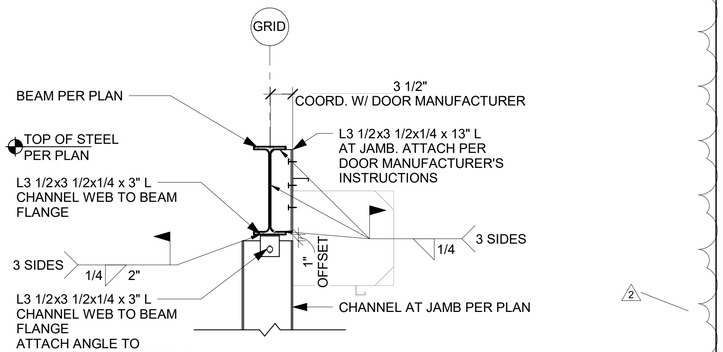
3/4" = 1'-0"



CHANNEL HEADER TO JAMB ATTACHMENT

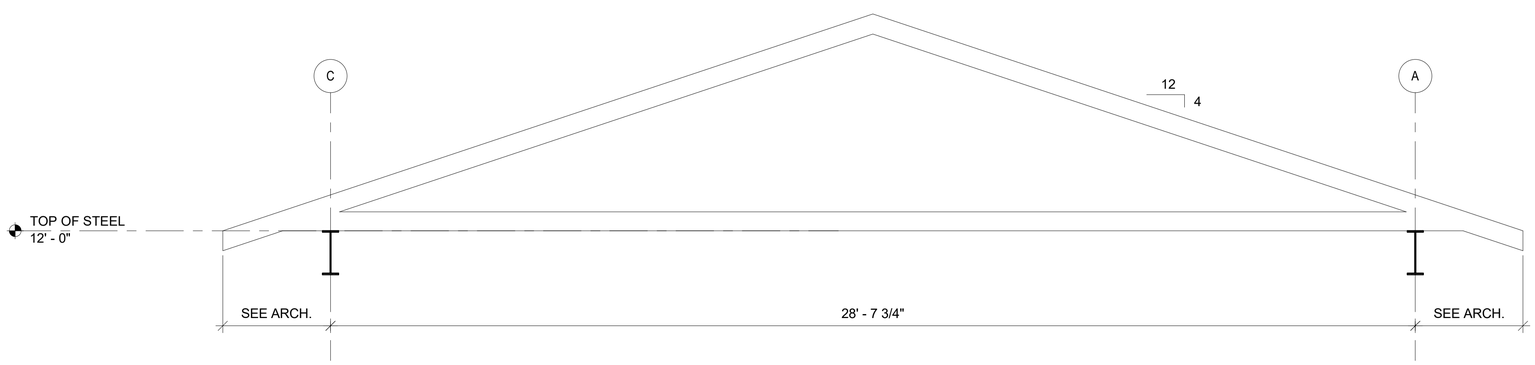
6 OVERHEAD DOOR SECTION

1" = 1'-0"



7 OVERHEAD DOOR SECTION AT JAMB

1" = 1'-0"



TRUSS NOTES:

1. FINAL TRUSS AND TRUSS MEMBER DESIGN IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER.
2. TRUSS MANUFACTURER TO PROVIDE DESIGN AND DETAILS FOR TRUSS TO BEAM CONNECTIONS. CONNECTIONS SHALL BE DESIGNED TO RESIST BEARING AND UPLIFT FORCES CONCURRENT WITH THE HORIZONTAL SHEAR FORCE NOTED.
3. SEE SHEET S-003 FOR COMPONENT AND CLADDING WIND PRESSURES.
4. TRUSS WEB CONFIGURATION NOT SHOWN IN PROFILE FOR CLARITY.

5 TYPICAL TRUSS PROFILE

1/2" = 1'-0"

US Army Corps of Engineers ®

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2	REVISED IN ACCORDANCE WITH AMENDMENT 0003	11 AUG 2023
1	REVISED IN ACCORDANCE WITH AMENDMENT 0002	04 AUG 2023

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CONTRACT NO.:
CATEGORY CODE: 178-65-01
FILE NAME:

DESIGN BY: A. SCOTT
DRAWN BY: A. SCOTT
QC BY: J. WHITTAKER
SUBMITTED BY: J. DEACON
SIZE: ANSI D

U.S. ARMY CORPS OF ENGINEERS
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FORT LIBERTY, NORTH CAROLINA
AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTR)
FY23, PN 96182
VOLUME 2 - BUILDING

OPERATIONS/STORAGE BUILDING FRAMING DETAILS

SHEET ID
BLDG 3
SF502

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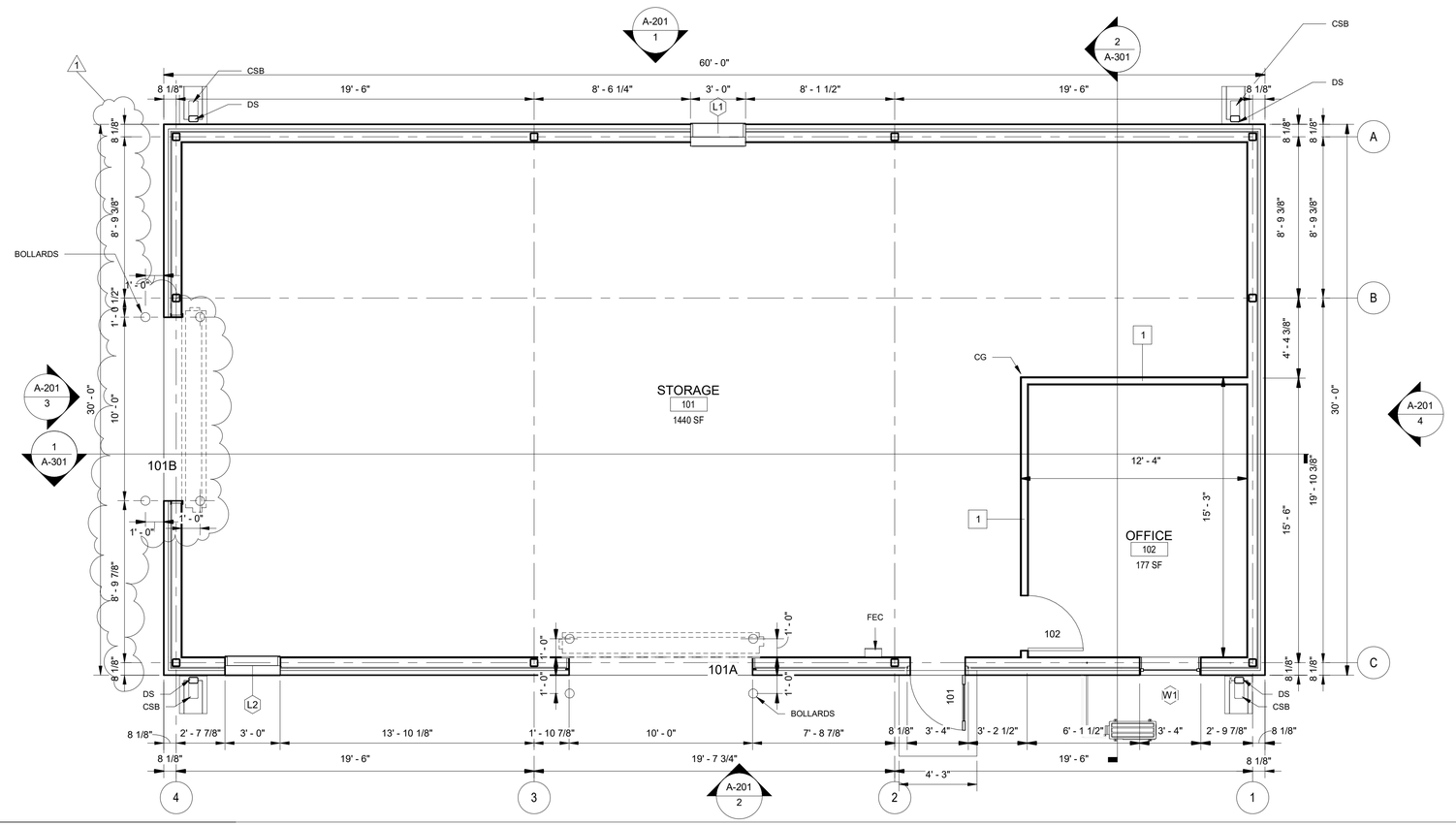
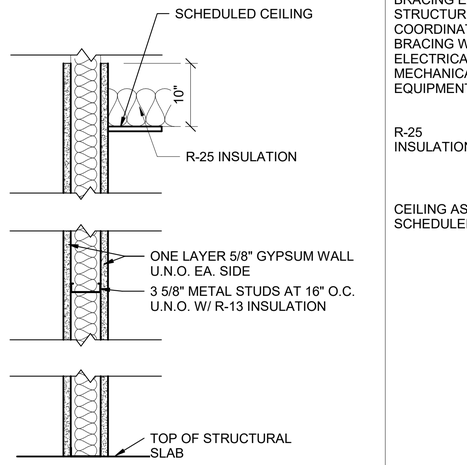


1 FLOOR PLAN

1/4" = 1'-0"

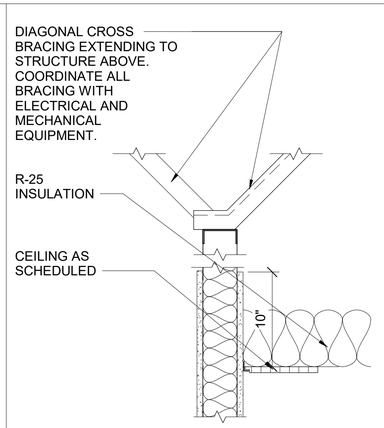
SCALE: 1/4"=1'-0"



PARTITION TYPE 1 - 3 5/8" METAL STUD NON FIRE RATED PARTITION

2 PARTITION TYPE 1

NOT TO SCALE



3 TYP ABOVE WALL TERMN.

NOT TO SCALE

GENERAL SHEET NOTES

1. EXTERIOR DIMENSIONS ARE TO FACE OF INSULATED METAL PANELS, INTERIOR DIMENSIONS ARE TO FACE OF STUD,OR FACE OF GYPSUM WALLBOARD, UNLESS NOTED OTHERWISE.
2. SEE CIVIL DRAWINGS FOR FINISHED FLOOR AND FINISHED GRADE ELEVATIONS. SEE STRUCTURAL DRAWINGS FOR FOUNDATION PLANS AND FLOOR SLABS.
3. SEE MECHANICAL DRAWINGS FOR LOCATION OF ALL MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL FOR EXACT LOCATION AND SIZES OF ALL REQUIRED REINFORCED CONCRETE EQUIPMENT PADS, TYPICAL.

FLOOR PLAN NOTES

1. SLOPE ALL EXTERIOR SLABS 1/8" PER FOOT FROM BUILDING FACE TO SLAB EDGE. SLOPE ALL INTERIOR SLABS TO FLOOR DRAINS AS INDICATED. COORDINATE WITH STRUCTURAL.

FLOOR PLAN LEGEND

3	WINDOW TAG
#	WALL TAG
L#	LOUVER TAG
101	DOOR TAG
CG	CORNER GUARD
CSB	CONCRETE SPLASH BLOCK
DS	DOWNSPOUT
FEC	FIRE EXTINGUISHER CABINET

GROSS BUILDING AREA

GROSS BUILDING AREA PER IBC= 1,800SF

GROSS BUILDING AREA PER UFC 3-101-01= 1,800SF

DD1391 AUTHORIZED SF= 1,800SF

NORTH ARROW

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE
1	REVISED IN ACCORDANCE WITH AMENDMENT 0003	11 AUG 2023

DESIGN BY: T O'DELL	ISSUE DATE: JUNE 2023
DRAWN BY: T O'DELL	SOLICITATION NO.: W912HN-23-B-3001
CHECKED BY: P. SULLIVAN	CONTRACT NO.:
SUBMITTED BY: J. DEACON	CATEGORY CODE: 178-65-01
SIZE: ANSI D	FILE NAME:

U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT
100 W. OGLETHORPE AVE.
SAVANNAH, GA 31401

FORT LIBERTY, NORTH CAROLINA
AUTOMATED MULTI-PURPOSE TRAINING RANGE (MPTR)
FY23, PN 98182
VOLUME 2 - BUILDING

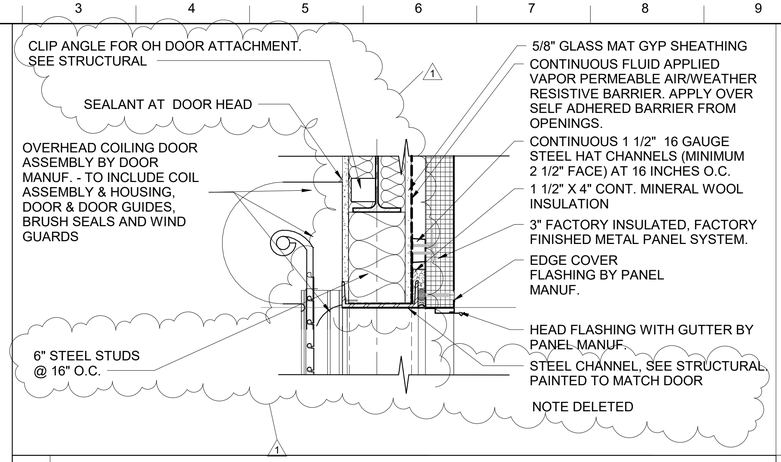
OPERATIONS/STORAGE BUILDING FLOOR PLAN

SHEET ID
BLDG 3
A-101

File Path: C:\Users\K6ENXTO9\Documents\FY23_PN98182_MPTR-STORAGE_ARCH_R21_K6ENXTO9.rvt

Plot Date: 8/9/2023 3:43:01 PM

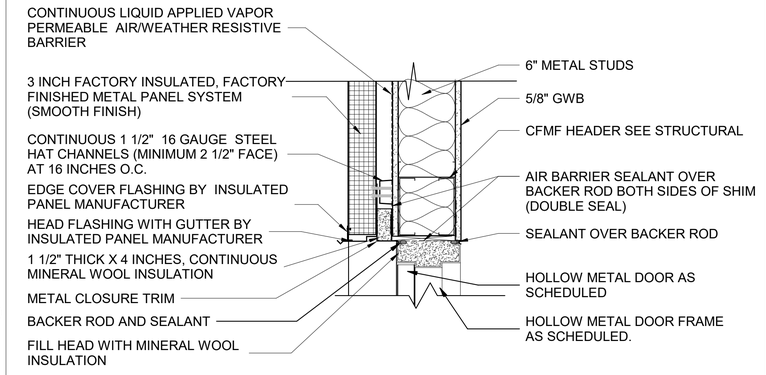
READY TO ADVERTISE (RTA)



1 OH DOOR HEAD

1 1/2" = 1'-0"

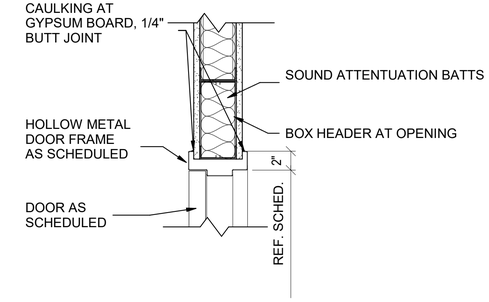
SCALE: 1 1/2"=1'-0"



2 HM DOOR HEAD

1 1/2" = 1'-0"

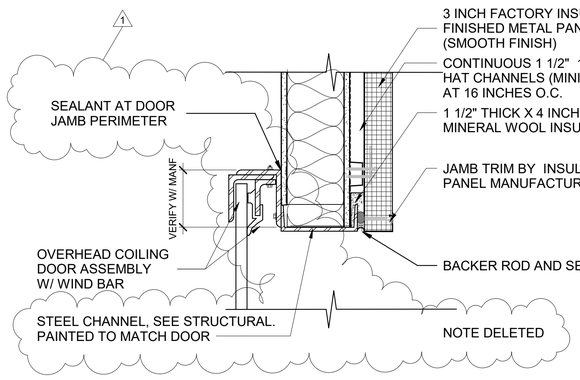
SCALE: 1 1/2"=1'-0"



3 INTERIOR DOOR HEAD DETAIL

1 1/2" = 1'-0"

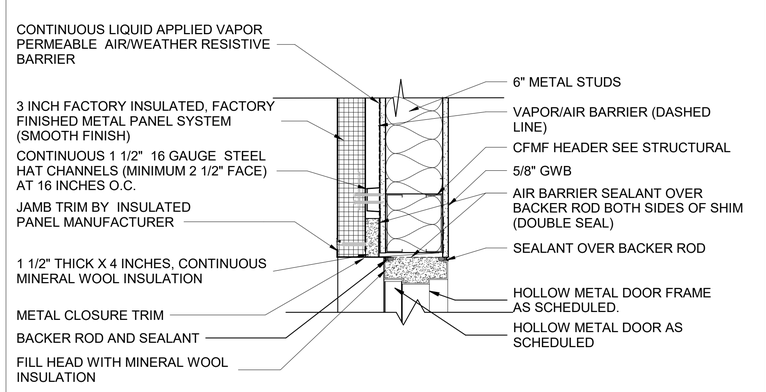
SCALE: 1 1/2"=1'-0"



4 OH DOOR JAMB

1 1/2" = 1'-0"

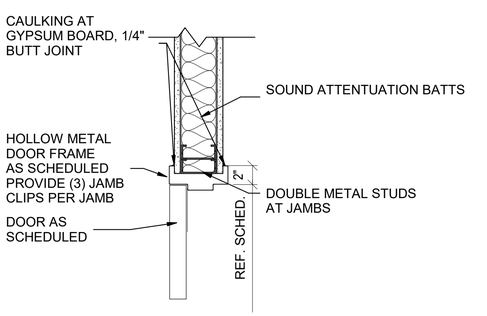
SCALE: 1 1/2"=1'-0"



5 HM DOOR JAMB

1 1/2" = 1'-0"

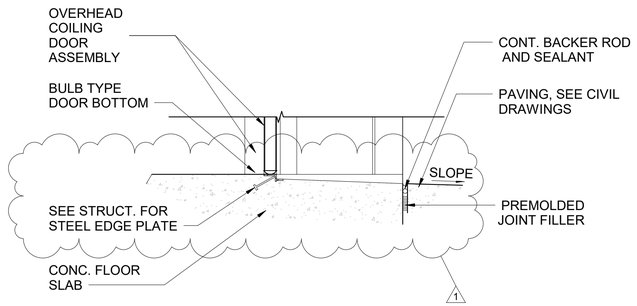
SCALE: 1 1/2"=1'-0"



6 INTERIOR DOOR JAMB DETAIL

1 1/2" = 1'-0"

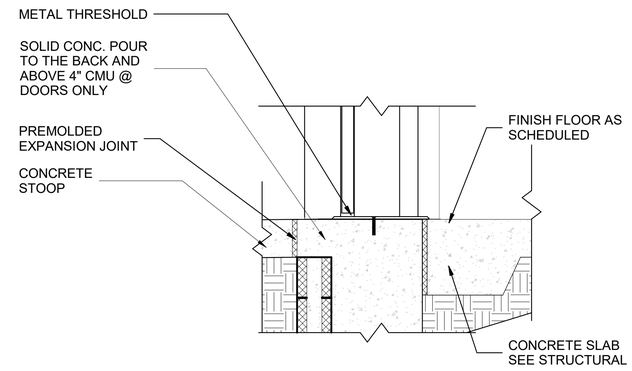
SCALE: 1 1/2"=1'-0"



7 OH DOOR SILL

1 1/2" = 1'-0"

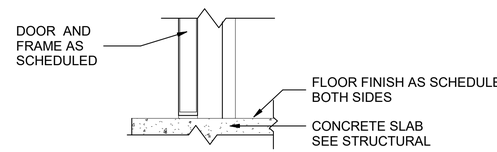
SCALE: 1 1/2"=1'-0"



8 HM DOOR SILL

1 1/2" = 1'-0"

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



9 INTERIOR DOOR SILL DETAIL

1 1/2" = 1'-0"

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

US Army Corps of Engineers ®

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1	REVISED IN ACCORDANCE WITH AMENDMENT 0003.	11 AUG 2023

DESIGN BY:	T O'DELL
DRAWN BY:	T O'DELL
CHECKED BY:	P. SULLIVAN
SUBMITTED BY:	J. DEACON
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U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT
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FORT LIBERTY, NORTH CAROLINA
AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTR)
FY23, PN 98182
VOLUME 2 - BUILDING

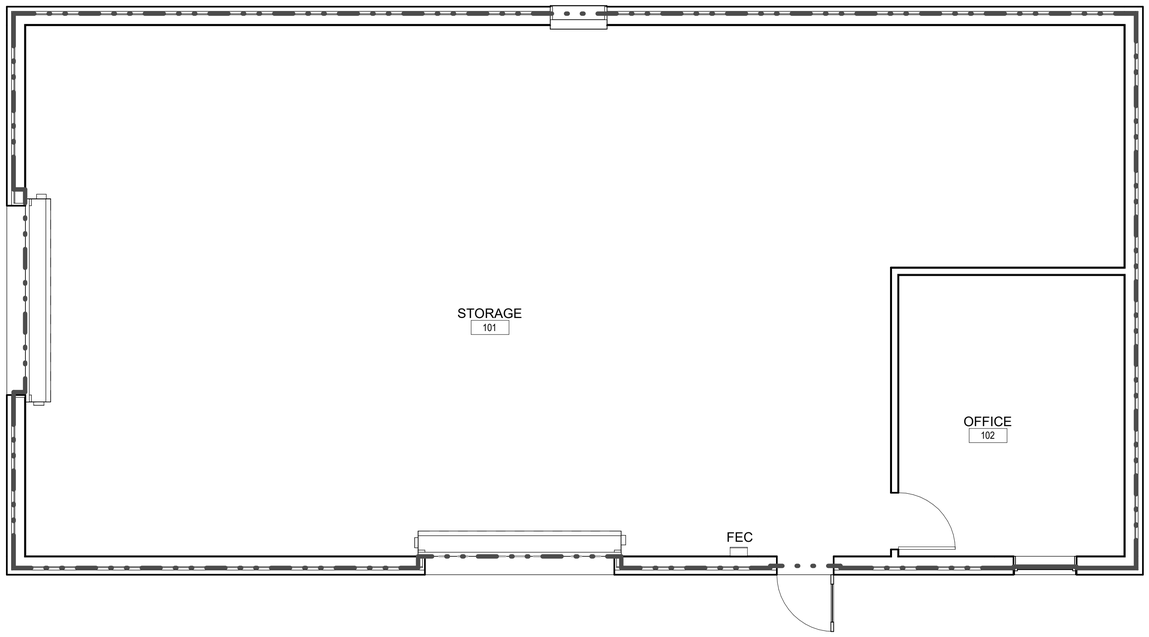
OPERATIONS/STORAGE BUILDING DOOR DETAILS

SHEET ID
BLDG 3
A-603

READY TO ADVERTISE (RTA)

Plot Date: 8/10/2023 9:21:48 AM

File Path: C:\Users\kbendm9\Documents\FY23_PN98182_MPTR-STORAGE_ARCH_R21_kbendm9.rvt



1 OPS/STORAGE AIR BARRIER PLAN
1/4" = 1'-0"

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

GENERAL NOTES

1. AIR BARRIER REQUIREMENTS: UFC 3-101-01 PARAGRAPH 3-6 REQUIRES THE BUILDING ENCLOSURE TO BE DESIGNED AND CONSTRUCTED WITH A CONTINUOUS SIX SIDED AIR BARRIER TO CONTROL AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/ASHRAE/USGBC/IES 189.1-2009 NORMATIVE APPENDIX B, "PRESCRIPTIVE CONTINUOUS AIR BARRIER".

2. THE PRIMARY AIR BARRIER MATERIALS ARE LIQUID APPLIED VAPOR PERMEABLE AIR/WEATHER RESISTIVE BARRIER, AND SELF-ADHERED (PEEL AND STICK) MEMBRANE. AIRBARRIER COMPONENT MATERIALS ARE SEALANTS, METAL (EXTERIOR DOORS, WINDOWS,GLAZING, FRAMES AND MECHANICAL LOUVERS WITH TIGHT SEALING MOTORIZED DAMPERS),POURED CONCRETE, FACTORY PREFINISHED PRE-INSULATED METAL WALL PANELS AND EXTERIOR WEATHER STRIPPING AT EXTERIOR DOORS.

3. THE AIR BARRIER SYSTEM CONSISTS OF PRIMARY AIR BARRIER MATERIALS COMBINED WITH AIR BARRIER COMPONENTS. MATERIAL TRANSITIONS SHALL BE FLEXIBLE TO ACCOMMODATE THERMAL AND MOISTURE MOVEMENT WITH ALL MOVEMENT JOINTS SEALED.CONNECTIONS SHALL BE MADE BETWEEN THE POURED CONCRETE FOUNDATION WALLS AND POURED CONCRETE FLOOR SLAB AND THE EXTERIOR WALLS, BETWEEN THE EXTERIOR WALLS AND EXTERIOR DOORS, EXTERIOR WINDOWS AND MECHANICAL LOUVERS, BETWEENTHE EXTERIOR WALLS AND SOFFIT, FASCIA AND ROOF AS FOLLOWS:

A) POURED CONCRETE FLOOR SLAB WITH VAPOR BARRIER TURNED UP THE POURED CONCRETE SLAB EDGE AND SEALED TO THE FACE OF THE FOUNDATION WALL. THE TOP OF THE FOUNDATION WALL PROVIDES THE CONNECTION BETWEEN THE FLOOR SLAB AND THE EXTERIOR WALL.

B) AT THE 4" CMU AND FACTORY PREFINISHED PREINSULATED METAL WALL PANEL TRANSITION SELF ADHERED (PEEL AND STICK) AIR BARRIER MEMBRANE IS LAPPED VERTICALLY WITH AN 8" LAP OVER THE LIQUID APPLIED VAPOR PERMEABLE AIR BARRIER OF THE WALL. THE BOTTOM OF THE FACTORY PREFINISHED INSULATED METAL WALL PANELS ARE SEALED TO THE TOP THE POURED CONCRETE FOUNDATION IN TWO ROWS OF CONTINOUS SEALANT. THE FACTORY PREFINISHED INSULATED METAL WALL PANELS (VAPOR IMPERMEABLE SYSTEM) EXTEND TO THE UNDERSIDE OF ROOF STRUCTURE. PANELS ARE SEALED TO THE EAVE, RAKE OR COPING STRUCTURE.

1

C) AT EXTERIOR DOOR AND WINDOW OPENINGS- ROUGH OPENINGS ARE WRAPPED WITH SELF ADHERED (PEEL AND STICK) MEMBRANE. A MINIMUM 3 INCH LAP OVER THE LIQUID APPLIED VAPOR PERMEABLE AIR/WEATHER RESISTIVE BARRIER/8" CMU AT WINDOW HEADS, JAMBS AND SILLS WILL BE PROVIDED. SELF ADHERED (PEEL AND STICK) AIR BARRIER MEMBRANE WILL BE EXTENDED THROUGH THE ROUGH OPENING TO ABUT THE INTERIOR GLASS MAT GYPSUM WALL BOARD. EXTERIOR METAL DOOR JAMBS ARE SEALED TO THE TOP OF THE POURED CONCRETE FLOOR SLAB WITH CONTINOUS BEADS OF SEALANT. DOOR THRESHOLDS ARE SEALED TO THE POURED CONCRETE FLOOR SLAB WITH CONTINOUS BEADS OF SEALANT. THE METAL DOOR HEADS AND JAM CONNECTIONS TO THE WALLS ARE SEALED TO THE WALL SELF ADHERED AIR BARRIER MEMBRANE.

D) AT EXTERIOR MECHANCIAL LOUVER OPENINGS- ROUGH OPENINGS ARE WRAPPED WITH SELF ADHERED (PEEL AND STICK) AIR BARRIER MEMEBRANE. A MINIMUM 3 INCH LAP OVER THE LIQUID APPLIED VAPOR PERMEABLE AIR /WEATHER RESISTIVE BARRIER/8" CMU AT HEADS,JAMBS AND SILLS WILL BE PROVIDED. SELF ADHERED 9PEEL AND STICK0 AIR BARRIER MEMBRANE WILL BE EXTENDED THROUGH THE ROUGH OPENING. EXTERIOR METAL LOUVER HEADS, JAMBS AND SILL CONNECTIONS TO THE WALLS ARE SEALED TO THE WALL AIR BARRIER MEMBRANE. LOUVERS ARE PROVIDED WITH TIGHT SEALING MOTORIZED DAMPERS.

E) ALL JOINTS AT OPENINGS,TRANSITIONS AND PENETRATIONS SHALL BE SEALED WITH BACKER ROD AND SEALANT.

1

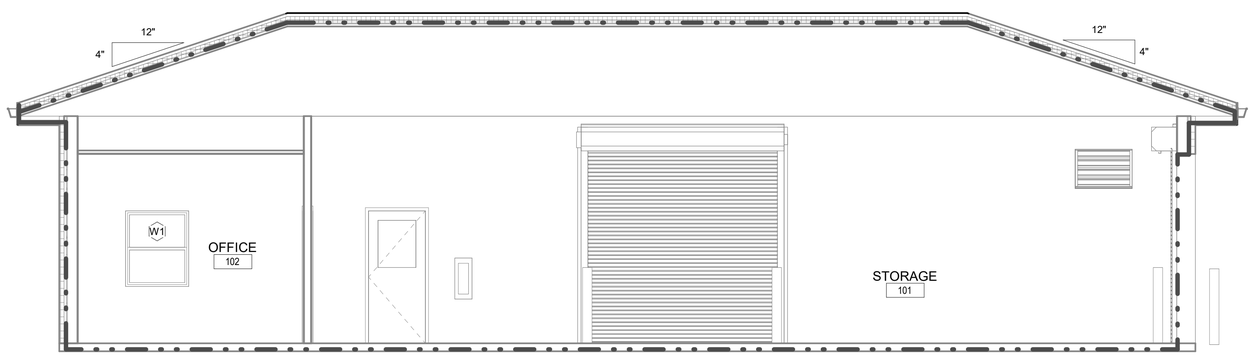
F) ALL ELECTRICAL,PLUMBING AND MECHANCIAL PENETRATIONS SHALL BE SEALED TO THE AIR BARRIER IN ACCORDANCE WITH THE AIR BARRIER MANUFACTURER'S RECOMMENDATIONS.

4. AIR BARRIER INSTALLATION AND INSPECTION ARE PART OF CONSTRUCTION. TESTING OF AIR BARRER IS NOT REQUIRED.

5. INSIDE AND OUTSIDE CORNERS AND JOINTS BETWEEN METAL FURRING SHALL BE SEALED IN ACCORDANCE WITH THE PRIMARY AIR BARRIER MANUFACTURER'S RECOMMENDATIONS.

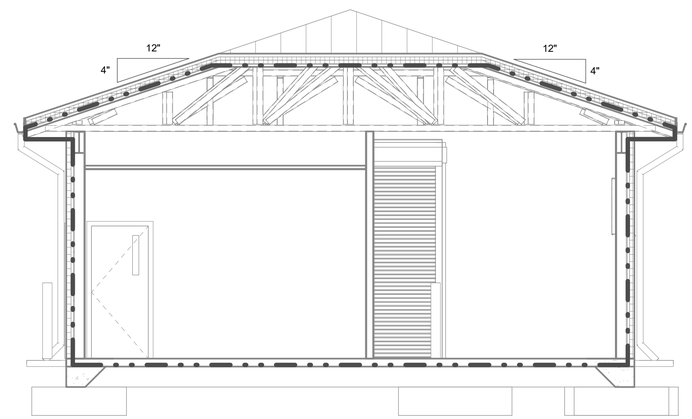
6. ALL JOINTS AT OPENINGS, TRANSITIONS, AND PENETRATIONS SHALL BE SEALED WITH BACKER ROD AND SEALANT.

7.ALL ELECTRICAL, PLUMBING, AND MECHANICAL PENETRATIONS SHALL BE SEALED TO THE AIR BARRIER IN ACCORDANCE WITH THE AIR BARRIER MANUFACTURER'S RECOMMENDATIONS.



2 OPS/STORAGE EAST-WEST BLDG SECTION
1/4" = 1'-0"

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



3 OPS/STORAGE NORTH-SOUTH BLDG SECTION
1/4" = 1'-0"

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

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE
1	REVISED IN ACCORDANCE WITH AMENDMENT 0003	11 AUG 2023

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T.ODELL	JUNE 2023
DRAWN BY:	SOLICITATION NO.:
T.ODELL	W91QHN-23-B-3001
CHECKED BY:	CONTRACT NO.:
P. SULLIVAN	
SUBMITTED BY:	CATEGORY CODE:
J. DEACON	178-65-01
SIZE: ANSI D	FILE NAME:

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FORT LIBERTY, NORTH CAROLINA
AUTOMATED MULTIPURPOSE TRAINING RANGE (MPTR)
FY23, PN 96182
VOLUME 2 - BUILDING

OPERATIONS/STORAGE BUILDING AIR BARRIER
BOUNDERY FLOOR PLAN & BUILDING SECTIONS

SHEET ID
BLDG 3
A-701

READY TO ADVERTISE (RTA)

Plot Date: 8/9/2023 3:46:01 PM

File Path: C:\Users\K6ENXT09\Documents\FY23_PN96182_MPTR-STORAGE_ARCH_R21_K6ENXT09.rvt