

# Cameron Prairie National Wildlife Refuge Bunkhouse

LA-27  
Bell City, LA 70630

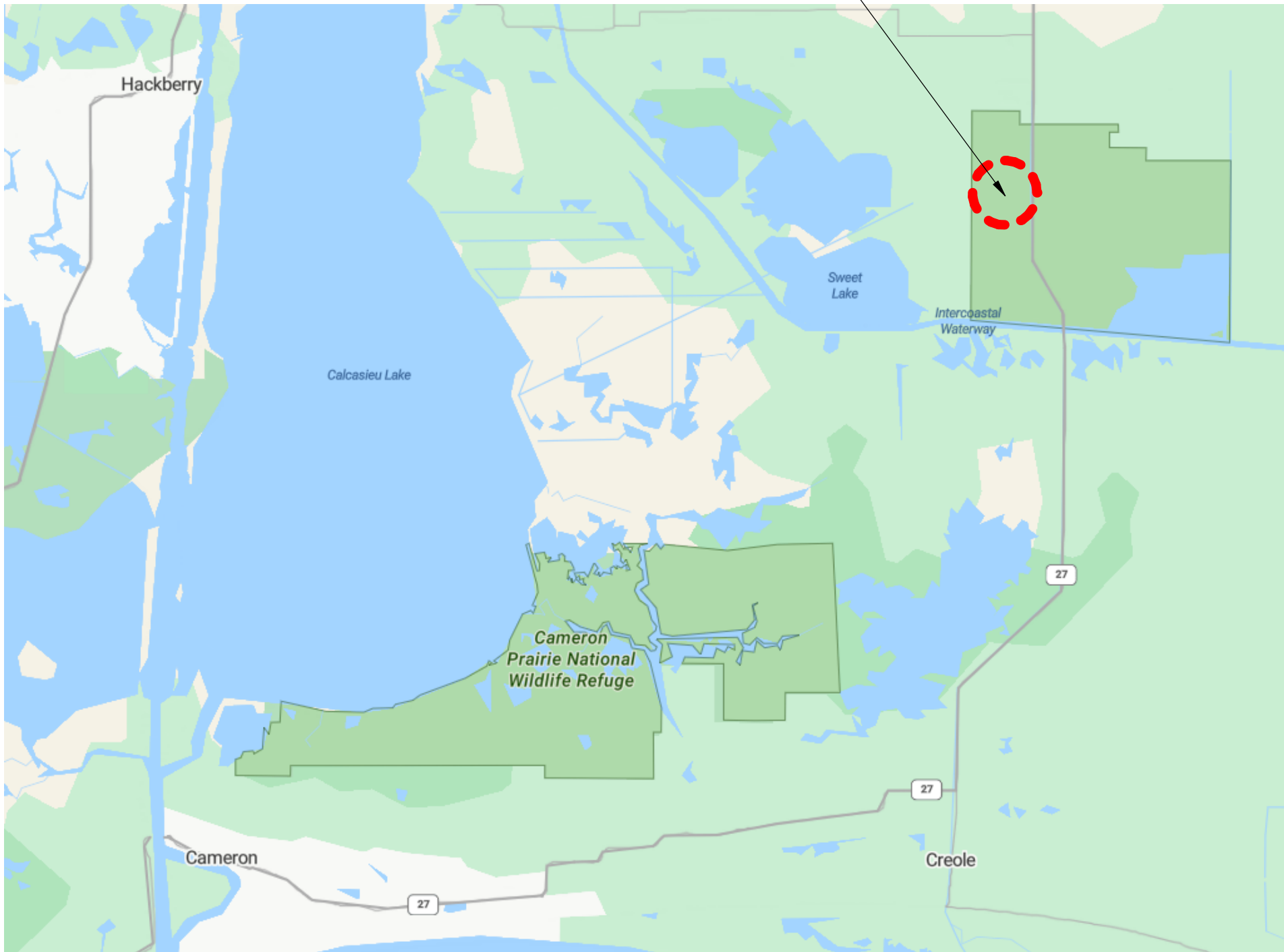
100% ISSUED FOR CONSTRUCTION

CONTRACT NUMBER: 140FC123F0003

02/12/2025

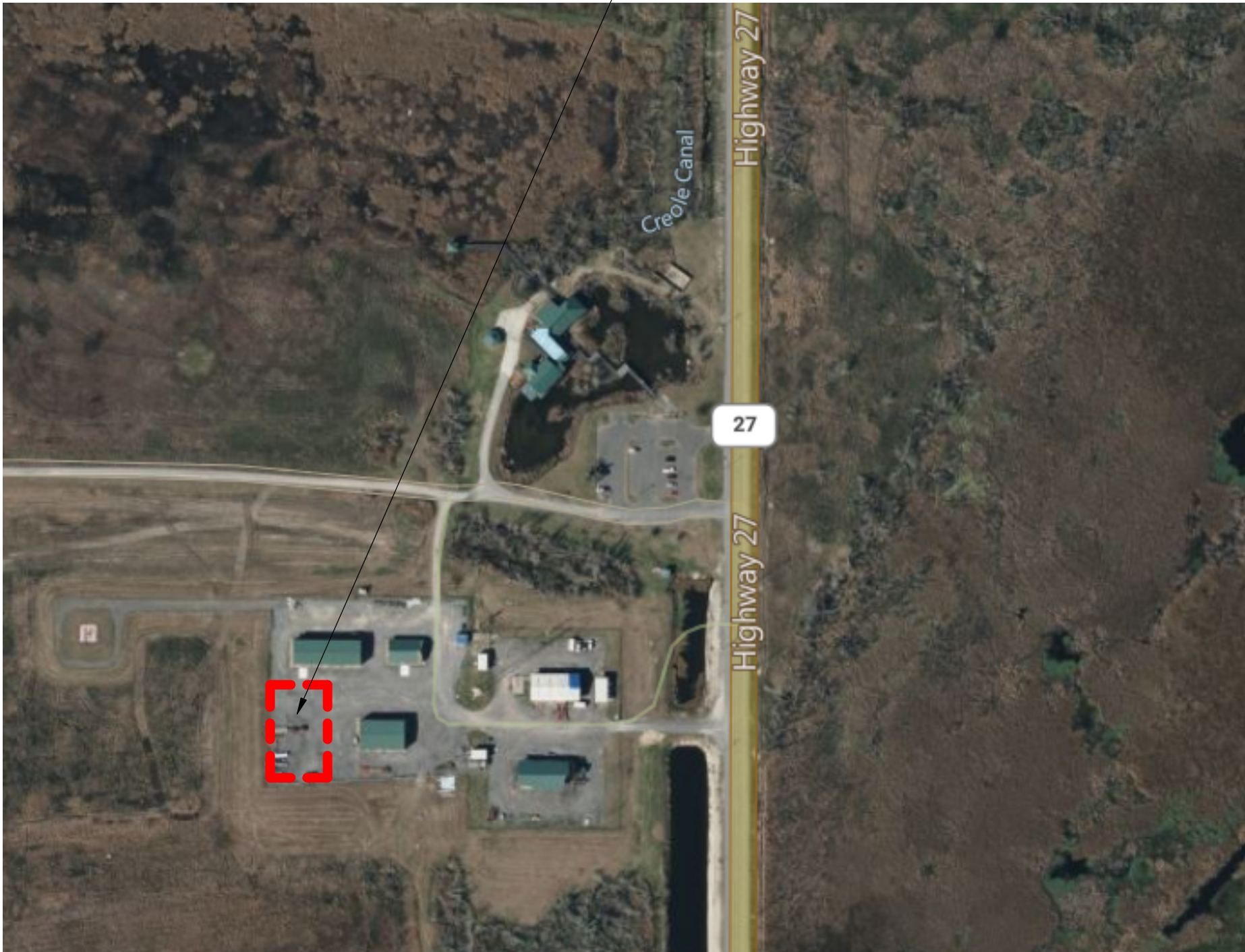


SCOPE OF WORK AREA

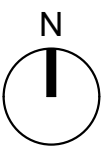


PROJECT VICINITY MAP  
SCALE: SCALE: N.T.S.

BUNKHOUSE



PROJECT LOCATION MAP  
SCALE: SCALE: N.T.S.



## DESIGN TEAM

**SURVEYOR**  
Ballard CLC, Inc.  
1009 Bayou Place  
Alexandria, La. 71303  
Phone (318) 445-6571  
Fax (318) 448-0257

**CIVIL ENGINEER**  
Linfield, Hunter, & Junius, Inc.  
3608 18th Street, Suite 200  
Metairie, LA 70002  
Phone (504) 833-5300  
Fax (504) 833-5350

**STRUCTURAL ENGINEER**  
Pond and Company  
3500 Parkway Lane, Suite 500  
Peachtree Corners, GA 30092  
Phone (678) 336-7740  
Fax (678) 336-7744

**ARCHITECT**  
Pond and Company  
3500 Parkway Lane, Suite 500  
Peachtree Corners, GA 30092  
Phone (678) 336-7740  
Fax (678) 336-7744

**FIRE PROTECTION ENGINEER**  
Pond and Company  
3500 Parkway Lane, Suite 500  
Peachtree Corners, GA 30092  
Phone (678) 336-7740  
Fax (678) 336-7744

**MECHANICAL ENGINEER**  
Pond and Company  
3500 Parkway Lane, Suite 500  
Peachtree Corners, GA 30092  
Phone (678) 336-7740  
Fax (678) 336-7744

**ELECTRICAL ENGINEER**  
Pond and Company  
3500 Parkway Lane, Suite 500  
Peachtree Corners, GA 30092  
Phone (678) 336-7740  
Fax (678) 336-7744

CONSULTANT



PROJECT NAME  
Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE  
COVER SHEET

SHEET NUMBER

G-001

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



2/10/2025 11:53:20 AM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_ARCH\_V21.rvt

D

C

B

A

SHEET NAMING CONVENTION

X - 0 0 1 A

2 DIGIT DISCIPLINE DESIGNATOR (IF ONLY ONE LETTER IS USED, THE SECOND LETTER IS REPLACED WITH A DASH "-" AS A PLACEHOLDER)\*\*

1 DIGIT AREA DESIGNATOR (AREA DESIGNATOR ONLY USED WHEN PLANS ARE SUBDIVIDED INTO AREAS.)

1 DIGIT SHEET TYPE DESIGNATOR  
0 - GENERAL  
1 - PLANS  
2 - ELEVATIONS  
3 - SECTIONS  
4 - ENLARGED PLANS  
5 - DETAILS  
6 - VARIES  
7 - VARIES  
8 - SPECIFICATIONS  
9 - 3D VIEWS

2 DIGIT SEQUENTIAL # (01-99) (FIRST DIGIT INDICATES PLAN TYPE. SECOND DIGIT INDICATES FLOOR)

SHEET NUMBER	SHEET NAME
GENERAL	
G-001	COVER SHEET
G-002	SHEET INDEX
G-004	BUILDING CODE SUMMARY
G-101	LIFE SAFETY PLAN
G-121	AIR BARRIER
SHEET TOTAL: 5	

SURVEYOR	
V-101	TOPOGRAPHIC AND UTILITY SURVEY
V-102	TOPOGRAPHIC AND UTILITY SURVEY
SHEET TOTAL: 2	

CIVIL	
C-001	CIVIL ABBREVIATIONS AND LEGEND
CD101	DEMOLITION PLAN
CS101	CIVIL SITE & GRADING PLAN
CG101	GRADING PLAN
CU101	UTILITY PLAN
CE101	EROSION AND SEDIMENT CONTROL PLAN
C-500	CONSTRUCTION DETAILS
C-501	CONSTRUCTION DETAILS
C-502	CONSTRUCTION DETAILS
SHEET TOTAL: 9	

STRUCTURAL	
S-001	GENERAL STRUCTURAL NOTES
S-002	GENERAL STRUCTURAL NOTES
S-003	SCHEDULE OF SPECIAL INSPECTIONS & ABBREVIATION KEY
S-004	WIND LOADING DIAGRAMS
S-101	FOUNDATION PLAN
S-111	FIRST FLOOR FRAMING PLAN
S-121	ATTIC FRAMING PLAN
S-151	ROOF FRAMING PLAN
S-201	ELEVATIONS
S-301	FOUNDATION SECTIONS
S-311	FLOOR FRAMING SECTIONS
S-351	ROOF FRAMING SECTIONS
S-401	ELEVATED MECH. PLATFORM FOUNDATION PLAN & DETAILS
S-402	ELEVATED MECH. PLATFORM FRAMING PLAN & DETAILS
S-403	ELEVATED MECH. PLATFORM FRAMING DETAILS
S-501	STRUCTURAL DETAILS
S-502	ROOF TRUSS PROFILE
S-601	SCHEDULES
S-602	FASTENING SCHEDULES
SHEET TOTAL: 19	

ARCHITECTURAL	
A-001	GENERAL NOTES, ABBREVIATIONS & SYMBOLS
A-002	TYPICAL MOUNTING HEIGHTS & LOCATIONS
A-004	MANEUVERING CLEARANCES
A-005	PARTITION TYPES & DETAILS
A-101	FLOOR PLAN
A-111	ATTIC PLAN
A-131	REFLECTED CEILING PLAN
A-151	ROOF PLAN
A-201	EXTERIOR ELEVATIONS
A-202	EXTERIOR ELEVATIONS
A-301	BUILDING SECTIONS
A-351	WALL SECTIONS
A-401	ENLARGED FLOOR PLANS
A-431	INTERIOR ELEVATIONS
A-432	INTERIOR ELEVATIONS
A-471	VERTICAL CIRCULATION PLANS
A-481	STAIR PLANS & SECTIONS
A-501	PLAN & SECTION DETAILS
A-511	ROOF SECTION DETAILS
A-561	MILLWORK SECTIONS
A-601	DOOR & WINDOW SCHEDULES, ELEVATIONS & DETAILS
A-611	DOOR & WINDOW DETAILS
SHEET TOTAL: 22	

INTERIORS	
I-101	INTERIOR FINISH PLAN
I-601	FINISH SCHEDULE & GENERAL NOTES
IF-101	FURNITURE PLAN
IG-101	SIGNAGE PLAN
IG-601	SIGNAGE SCHEDULE
SHEET TOTAL: 5	

FIRE PROTECTION	
FA101	FIRE ALARM FLOOR PLAN
FX101	FIRE SUPPRESSION FLOOR PLAN
SHEET TOTAL: 2	

PLUMBING	
P-001	PLUMBING GENERAL NOTES, ABBREVIATIONS, AND LEGENDS
PW101	PLUMBING WASTE AND VENT PLAN LEVEL 1
P-101	PLUMBING SUPPLY PLAN LEVEL 1
P-501	PLUMBING DETAILS
P-601	PLUMBING SCHEDULES
P-901	WASTE AND VENT RISER DIAGRAM
P-902	DOMESTIC WATER RISER DIAGRAM
SHEET TOTAL: 7	

MECHANICAL	
M-001	MECHANICAL GENERAL NOTES AND DESIGN CRITERIA
M-002	MECHANICAL ABBREVIATIONS AND LEGENDS
MH101	MECHANICAL HVAC FLOOR PLAN
MH102	MECHANICAL HVAC ROOF PLAN
M-301	MECHANICAL SECTIONS
M-501	MECHANICAL DETAILS
M-502	MECHANICAL DETAILS
M-503	MECHANICAL DETAILS
M-601	MECHANICAL SCHEDULES
M-602	MECHANICAL SCHEDULES
SHEET TOTAL: 10	

ELECTRICAL	
E-001	ELECTRICAL GENERAL NOTES AND ABBREVIATIONS
E-002	ELECTRICAL LEGEND
E-101	LIGHTING PLAN
E-102	LIGHTING PLAN - ATTIC
E-111	POWER PLAN
E-121	MECHANICAL EQUIPMENT POWER PLAN
E-501	ELECTRICAL DETAILS
E-601	ELECTRICAL FEEDER SCHEDULE AND ONE-LINE DIAGRAM
E-611	LUMINAIRE AND MECHANICAL EQUIPMENT SCHEDULES
E-621	PANELBOARD SCHEDULES
SHEET TOTAL: 10	



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/IAOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

SHEET INDEX

SHEET NUMBER

G-002

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION

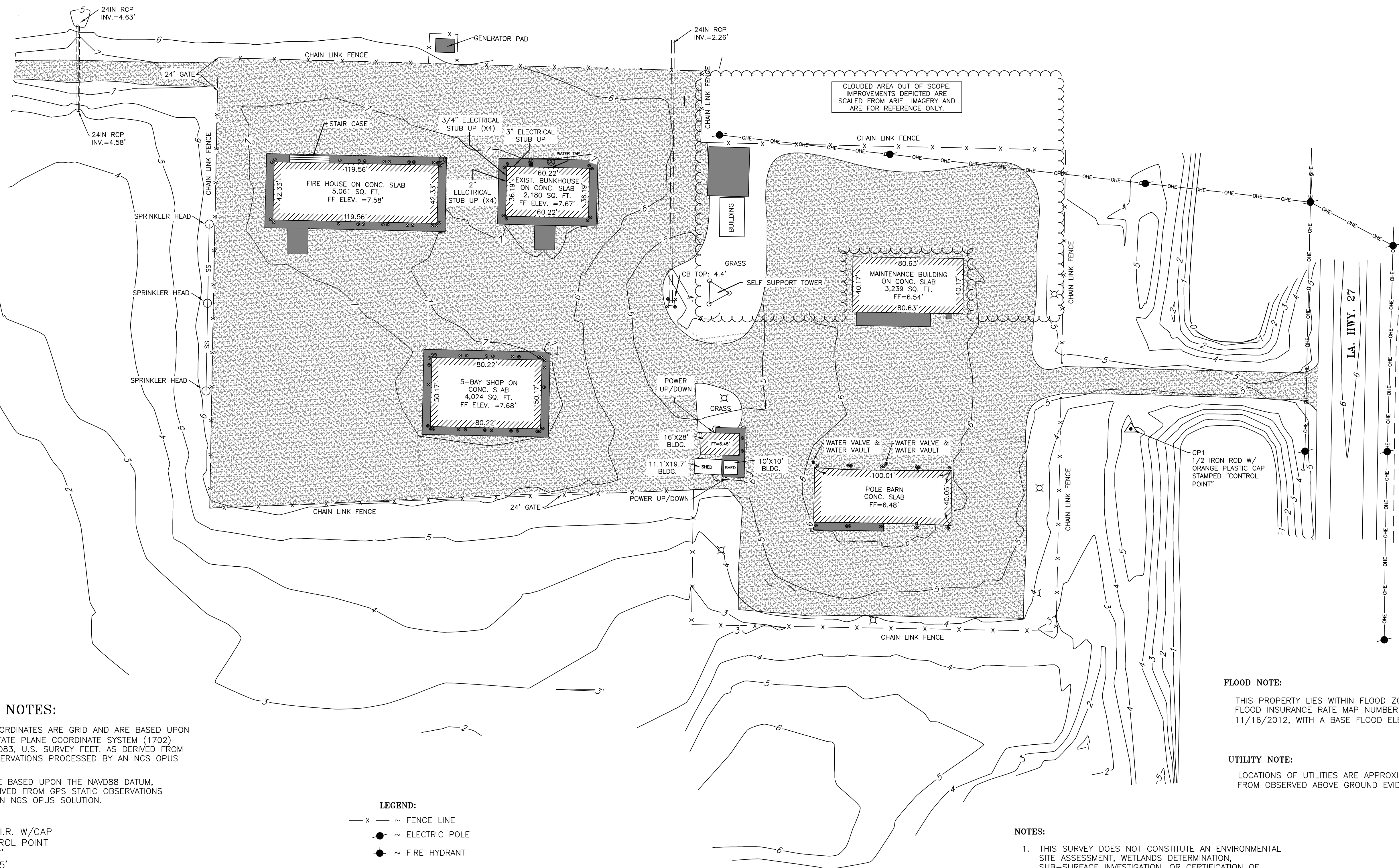


D

C

B

A

**GEODETTIC NOTES:**

1) HORIZONTAL COORDINATES ARE GRID AND ARE BASED UPON THE LOUISIANA STATE PLANE COORDINATE SYSTEM (1702) SOUTH ZONE, NAD83, U.S. SURVEY FEET, AS DERIVED FROM GNSS STATIC OBSERVATIONS PROCESSED BY AN NGS OPUS SOLUTION.

2) ELEVATIONS ARE BASED UPON THE NAVD88 DATUM, GEOID18, AS DERIVED FROM GPS, STATIC OBSERVATIONS PROCESSED BY AN NGS OPUS SOLUTION.

C.P.#1 - 1/2" I.R. W/CAP  
STAMPED CONTROL POINT  
N= 539550.407'  
E= 2724936.135'  
ELEV.= 5.512'

C.P.#2 - 1/2" I.R. W/CAP  
STAMPED CONTROL POINT  
N= 540020.162'  
E= 2724908.722'  
ELEV.= 5.86'

C.P.#3 - 1/2" I.R. W/CAP  
STAMPED CONTROL POINT  
N= 540217.81'  
E= 2724649.389'  
ELEV.= 5.13'

**LEGEND:**

- ~ FENCE LINE
- ~ ELECTRIC POLE
- ~ FIRE HYDRANT
- ~ BOLLARD
- ~ CONTROL POINT
- ~ LIGHT POLE
- ~ SANITARY SEWER CLEAN OUT

~ MISC. CONCRETE PAVING (PARKING, SIDEWALKS, EQUIPMENT PADS, ETC.)

~ GRAVEL

**FLOOD NOTE:**

THIS PROPERTY LIES WITHIN FLOOD ZONE "AE" ACCORDING TO THE FLOOD INSURANCE RATE MAP NUMBER 22023C0450H DATED 11/16/2012, WITH A BASE FLOOD ELEVATION OF 9' (NAVD88)

**UTILITY NOTE:**

LOCATIONS OF UTILITIES ARE APPROXIMATE AND WERE DETERMINED FROM OBSERVED ABOVE GROUND EVIDENCE ONLY.

**NOTES:**

- THIS SURVEY DOES NOT CONSTITUTE AN ENVIRONMENTAL SITE ASSESSMENT, WETLANDS DETERMINATION, SUB-SURFACE INVESTIGATION, OR CERTIFICATION OF UN-ENCUMBERED OWNERSHIP.
- NO ATTEMPT HAS BEEN MADE BY BALLARD CLC, INC. TO RESEARCH OR VERIFY TITLE, ACTUAL LEGAL OWNERSHIP, SERVITUDES, EASEMENTS, OR OTHER ENCUMBRANCES ON THIS PROPERTY OTHER THAN THOSE FURNISHED BY THE CLIENT.
- FIELD WORK COMPLETED ON 3/20/2024

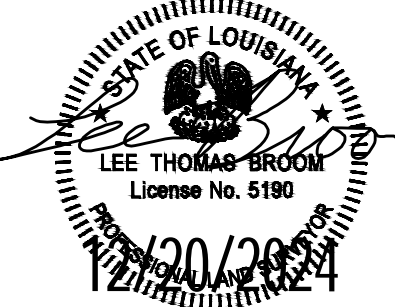
**A1****TOPOGRAPHIC AND UTILITY SURVEY**

SCALE: 1/4" = 10'-0"

0 20' 40' 80'  
SCALE: 1/4" = 10'-0"**POND**

3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

**EOR/AOR SEAL****CONSULTANT**

Architecture ♦ Engineering ♦ Surveying  
1009 Bayou Place, Alexandria, LA 71303  
Tel: (318) 445-6571 Fax: (318) 448-0257

**CLIENT INFORMATION**

US Fish &amp; Wildlife Service

**PROJECT NAME**

**Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse**

LA-27 BELL CITY,  
LOUISIANA 70630  
IN SECTION 28, T12S-R7W  
CAMERON PARISH

**DRAWING ISSUE**

DATE

DESCRIPTION

MARK

**DESIGNED BY:**

DRAWN BY: E. CAMPNEY

CHECKED BY: L. BROOM

SUBMITTED BY: C. CUSICK

DATE OF PLAT: 12/04/2024

FINAL FIELD DATE: 3/20/2024

PROJECT #: 1220834

**SHEET TITLE**

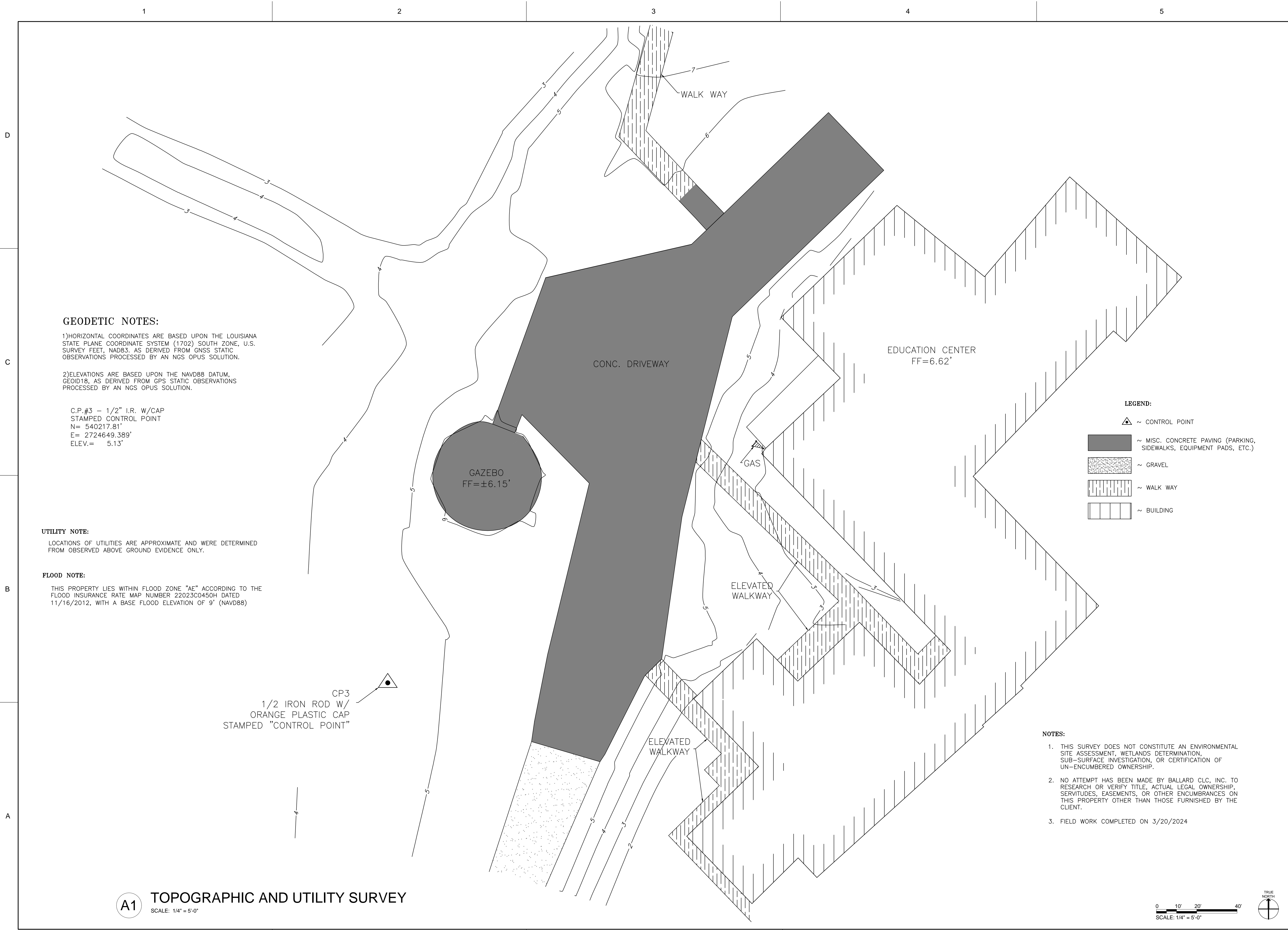
**TOPOGRAPHIC AND  
UTILITY SURVEY**

**SHEET NUMBER****V-101**ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



11/15/2024 11:29:21 AM BIM 360://1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_ARCH\_v21.rvt



**POND**  
3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092  
Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

**EOR/AOR SEAL**  
  
**CONSULTANT**  
  
**Ballard CLC, Inc.**  
Architecture ♦ Engineering ♦ Surveying  
1009 Bayou Place, Alexandria, LA 71303  
Tel: (318) 445-6571 Fax: (318) 448-0257

**CLIENT INFORMATION**  
  
US Fish & Wildlife Service

**PROJECT NAME**  
**Cameron Prairie National Wildlife Refuge Bunkhouse**

**LA-27 BELL CITY, LOUISIANA 70630**  
**IN SECTION 28, T12S-R7W CAMERON PARISH**

DRAWING ISSUE	DATE	DESCRIPTION	MARK

DESIGNED BY:	
DRAWN BY:	E. CAMPNEY
CHECKED BY:	L. BROOM
SUBMITTED BY:	C. CUSICK
DATE OF PLAT:	12/04/2024
FINAL FIELD DATE:	3/20/2024
PROJECT #:	1220834

**SHEET TITLE**  
**TOPOGRAPHIC AND UTILITY SURVEY**

**SHEET NUMBER**  
**V-102**

**ORIGINAL SHEET SIZE:**  
24" X 36"



2/10/2025 11:53:21 AM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_ARCH\_V21.rvt

D

C

B

A

BUILDING CODE SUMMARY

PROJECT INFORMATION

PROJECT NAME: FWS - CAMERON PRAIRIE NATIONAL WILDLIFE REFUGE BUNKHOUSE  
PROJECT LOCATION: BELL CITY, LA; CALCASIEU PARISH

DEMOLITION OF EXISTING BUNKHOUSE IS BY GOVERNMENT AND NOT IN SCOPE.  
REFER TO CIVIL SHEET CD101 FOR ADDITIONAL INFORMATION.

PROJECT SCOPE: CONSTRUCT A NEW BUNKHOUSE. PROJECT INCLUDES BEDROOMS, LIVING/Common AREA, RESIDENTIAL KITCHEN, RESTROOMS, (2) EFFICIENCY APARTMENTS, LAUNDRY AND UTILITY ROOM. PROJECT ALSO INCLUDES NEW GRAVEL PARKING AND DRIVE WITH CONCRETE HANDICAP PARKING PAD. CONSTRUCTION TO CONSIST OF WOOD FRAMING, METAL ROOF, CEMENT BOARD SIDING, INSULATED WINDOWS AND DOORS WITH LOW-E GLAZING, HURRICANE SHUTTERS, HARDWARE, AND UTILITIES FOR A FULLY FUNCTIONAL FACILITY.

LIST OF APPLICABLE CODES

LOUISIANA UNIFORM STATE CONSTRUCTION CODE -  
INTERNATIONAL BUILDING CODE (IBC), 2021 WITH AMENDMENTS  
INTERNATIONAL FIRE CODE (IFC), 2021 WITH AMENDMENTS  
INTERNATIONAL PLUMBING CODE (IPC), 2021 WITH AMENDMENTS  
INTERNATIONAL MECHANICAL CODE (IMC), 2021 WITH AMENDMENTS  
NATIONAL ELECTRICAL CODE (NEC), 2023  
INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2021  
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 101: LIFE SAFETY CODE (LSC), 2021  
2010 ADA - ABA ACCESSIBILITY GUIDELINES TITLE II  
ANSI/ASHRAE/IESNA 90.1 - 2019

OCCUPANCY CLASSIFICATION (IBC CHAPTER 3):

OCCUPANCY CLASSIFICATION (302): R3  
MIXED OCCUPANCY (508): N/A

OCCUPANCY CLASSIFICATION (LSC CHAPTER 6):

OCCUPANCY CLASSIFICATION (6.1): CH 26 LODGING & ROOMING HOUSES  
MIXED OCCUPANCY (6.1.14.1): N/A

GENERAL BUILDING HEIGHT & AREAS (IBC CHAPTER 5):

ALLOWABLE HEIGHT - FEET (TABLE 504.3):

RESIDENTIAL (R3): 40'-0" ACTUAL = 21'-9"

ALLOWABLE HEIGHT - STORIES (TABLE 506.2):

RESIDENTIAL (R3): 3 STORY ACTUAL = 1 STORY

ALLOWABLE AREA PER STORY (TABLE 506.2):

RESIDENTIAL (R3): UL SF ACTUAL = 3515 SF

ALLOWABLE AREA FRONTAGE INCREASE (506.3.3): NOT REQUIRED

ALLOWABLE AREA TOTAL (506.2.4): UNLIMITED

TYPES OF CONSTRUCTION (IBC CHAPTER 6):

TYPE OF CONSTRUCTION (TABLE 601): V-B SPRINKLERED  
FIRE RESISTANCE (TABLE 601):  
STRUCTURAL FRAME  
COLUMNS, GIRDERS, TRUSSES  
(NOT REQUIRED WHEN > 20' ABOVE FLOOR) 0 HOURS  
BEARING WALLS  
EXTERIOR 0 HOURS  
INTERIOR 0 HOURS  
NONBEARING WALLS AND PARTITIONS  
EXTERIOR (TABLE 601) X ≥ 30 0 HOURS  
INTERIOR (TABLE 601) 0 HOURS  
FLOOR CONSTRUCTION 0 HOURS  
STAIR ENCLOSURE N/A  
ELEVATOR SHAFT N/A

FIRE PROTECTION SYSTEMS (IBC CHAPTER 9):

AUTOMATIC SPRINKLER SYSTEM (903.2.8) REQUIRED / PROVIDED  
STANDPIPE SPRINKLER SYSTEM (905) NOT REQUIRED / NOT PROVIDED  
PORTABLE FIRE EXTINGUISHERS (906) REQUIRED / PROVIDED  
FIRE ALARM & DETECTION (907) REQUIRED / PROVIDED  
MASS NOTIFICATION SYSTEM (917) NOT REQUIRED / NOT PROVIDED

MEANS OF EGRESS (LSC CHAPTER 7):

MAXIMUM FLOOR AREA ALLOWABLE / OCCUPANT (TABLE 7.3.1.2)

RESIDENTIAL BOARD & CARE: 200 SF/P GROSS  
ASSEMBLY LESS-CONCENTRATED USE: 15 SF/P GROSS

FIRE PARTITIONS:

708.3 1HR FIRE RATING 20MIN DOOR PER T716.1.2

OCCUPIED AREA

RESIDENTIAL R3: 2821 SF 2821 / 200 = 15 OCCUPANTS  
LESS-CONCENTRATED ASSEMBLY: 694 SF 694 / 15 = 47 OCCUPANTS  
TOTAL = 3515 SF TOTAL = 62 OCCUPANTS

EGRESS WIDTH

LEVEL COMPONENTS AND RAMPS (TABLE 7.3.3.1)

0.2 \* 63 = 12.6" MINIMUM 60" PROVIDED

NUMBER OF EXITS (7.4.1.1):

NOT LESS THAN 2 3 PROVIDED

COMMON PATH OF TRAVEL

(IBC 1006.2.2.6) MAXIMUM COMMON PATH EGRESS  
TRAVEL DISTANCE= 125 FT 38'-7"

DEAD ENDS

(IBC 1020.5) DEAD ENDS = 20 FT N/A

TRAVEL DISTANCE TO EXITS

(IBC 1017.2) EXIT ACCESS TRAVEL DISTANCE = 125 FT 48 FT

CORRIDOR RATING

RESIDENTIAL (IBC 708.3) 1 HOURS

PLUMBING SYSTEMS (IBC CHAPTER 19):

PLUMBING FIXTURE CALCULATIONS ARE BASED ON IBC OCCUPANT LOAD (IBC CHAPTER 10)

MAXIMUM FLOOR AREA ALLOWABLE / OCCUPANT (TABLE 1004.5)

RESIDENTIAL APT: 2 UNITS  
RESIDENTIAL: 2812 SF/P GROSS

OCCUPIED AREA

RESIDENTIAL APT: 2 UNITS  
RESIDENTIAL: 2812 GSF / 200 GSF= 1 PER UNIT  
TOTAL = 2812 GSF TOTAL = 15 OCCUPANTS

OCCUPANT LOAD

1 PER UNIT  
14.06 OCCUPANTS  
15 OCCUPANTS

PLUMBING FIXTURES (TABLE 2902.1)

WATER CLOSETS

RESIDENTIAL APT- 1 PER DWELLING 2 2  
BOARDING HOUSE NON-TRANSIENT 1 PER 10 2 4  
TOTAL 4 6

LAVATORIES

RESIDENTIAL APT- 1 PER DWELLING 2 2  
BOARDING HOUSE NON-TRANSIENT 1 PER 10 2 4  
TOTAL 4 6

DRINKING FOUNTAINS

RESIDENTIAL APT- - -  
BOARDING HOUSE NON-TRANSIENT 1 PER100 - -  
TOTAL - -

WASHER DRYER

RESIDENTIAL APT- 1 PER 20 1 2  
BOARDING HOUSE NON-TRANSIENT - -  
TOTAL 1 2

KITCHEN SINKS

RESIDENTIAL APT- 1 PER DWELLING 2 2  
BOARDING HOUSE NON-TRANSIENT 1 1  
TOTAL 3 3

SERVICE SINKS

RESIDENTIAL APT- - -  
BOARDING HOUSE NON-TRANSIENT 1 1  
TOTAL 1 1



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

BUILDING CODE  
SUMMARY

SHEET NUMBER

G-004

ORIGINAL SHEET SIZE:  
24" X 36"





Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

LIFE SAFETY  
PLAN

G-101

## SHEET NOTES

1. DEVICES HAVE BEEN SHOWN; BUT THE CONTRACTOR SHALL ENSURE THE INSTALLATION OF ALL LIFE SAFETY DEVICES INDICATED ON THE ENGINEERING DRAWINGS.
2. THESE DRAWINGS SHALL BE INDICATED AS "FOR REFERENCE ONLY."
3. CONTRACTORS SHALL FOLLOW **EM-385-1-1 AND NFPA 241**, ALONG WITH THE INSTALLATION'S FIRE REGULATIONS.
4. FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL:
  - A. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG WITH WALL OR PARTITION.
  - B. INCLUDE LETTERING NOT LESS THAN 3 INCHES IN HEIGHT WITH A MINIMUM 3/8-INCH STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING, "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS," OR OTHER WORDING MAY BE ACCEPTABLE, BUT MUST BE APPROVED PRIOR TO INSTALLATION.

## NFPA OCCUPANCY "USE" LEGEND FOR EGRESS

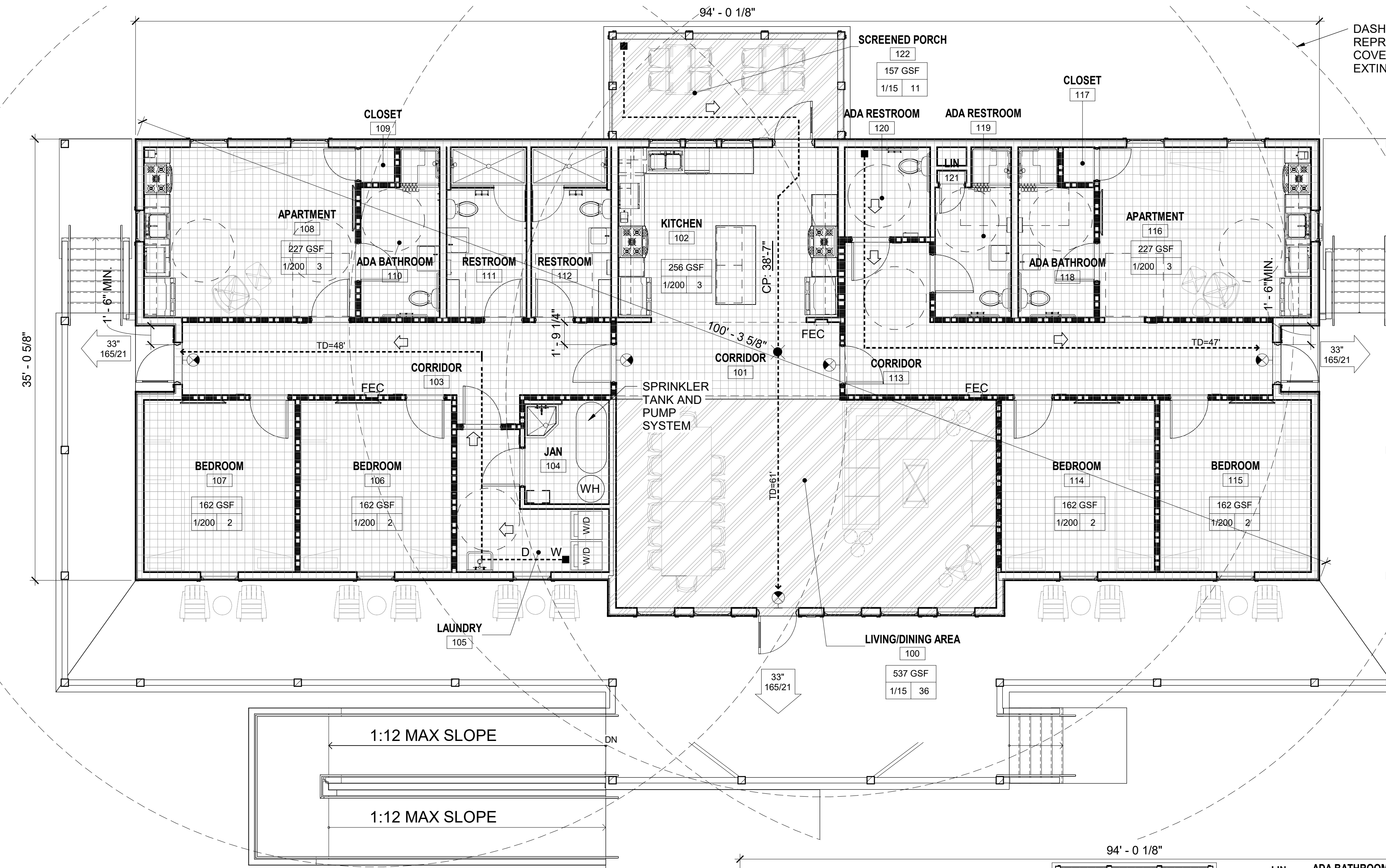
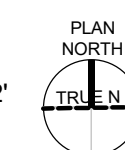
	NFPA: CH 26 LODGING & ROOMING HOUSES 1/200 2,821 GSF / 200 = 15
	NFPA: NON CONCENTRATED ASSEMBLY 1/15 GSF 688 GSF / 15 = 46

## SHEET LEGEND

- 1-HR. RATED WALLS
- 45'-0" TRAVEL DISTANCE
- CP COMMON PATH END
- CP: COMMON PATH OF EGRESS TRAVEL IDENTIFIER
- DE: DEAD END EGRESS TRAVEL IDENTIFIER DISTANCE TO DEAD END (IN FEET)
- EXIT SIGN WITH DIRECTION ARROWS- SEE ELECT. DWGS.
- FEC FIRE EXTINGUISHER CABINET W/ 10LB. UL RATED 4-A-80-B-C, MULTI-PURPOSE DRY-CHEMICAL FIRE EXTINGUISHER
- NOTE: FIRE EXTINGUISHERS SHALL BE INSTALLED W/ TOP AT 4'-0" ABOVE FINISHED FLOOR. PROVIDE STICK - ON LETTERING AND DIRECTIONAL ARROWS TO IDENTIFY THE CABINET OR EXTINGUISHERS LOCATION.
- EGRESS CLEAR WIDTH CAPACITY/NO. OF OCCUPANTS
- Name
- 150 SF ROOM AREA
- 100 OCCUPANT LOAD
- 100 AREA PER OCCUPANT

0 4' 8' 16'  
SCALE: 1/8" = 1'-0"

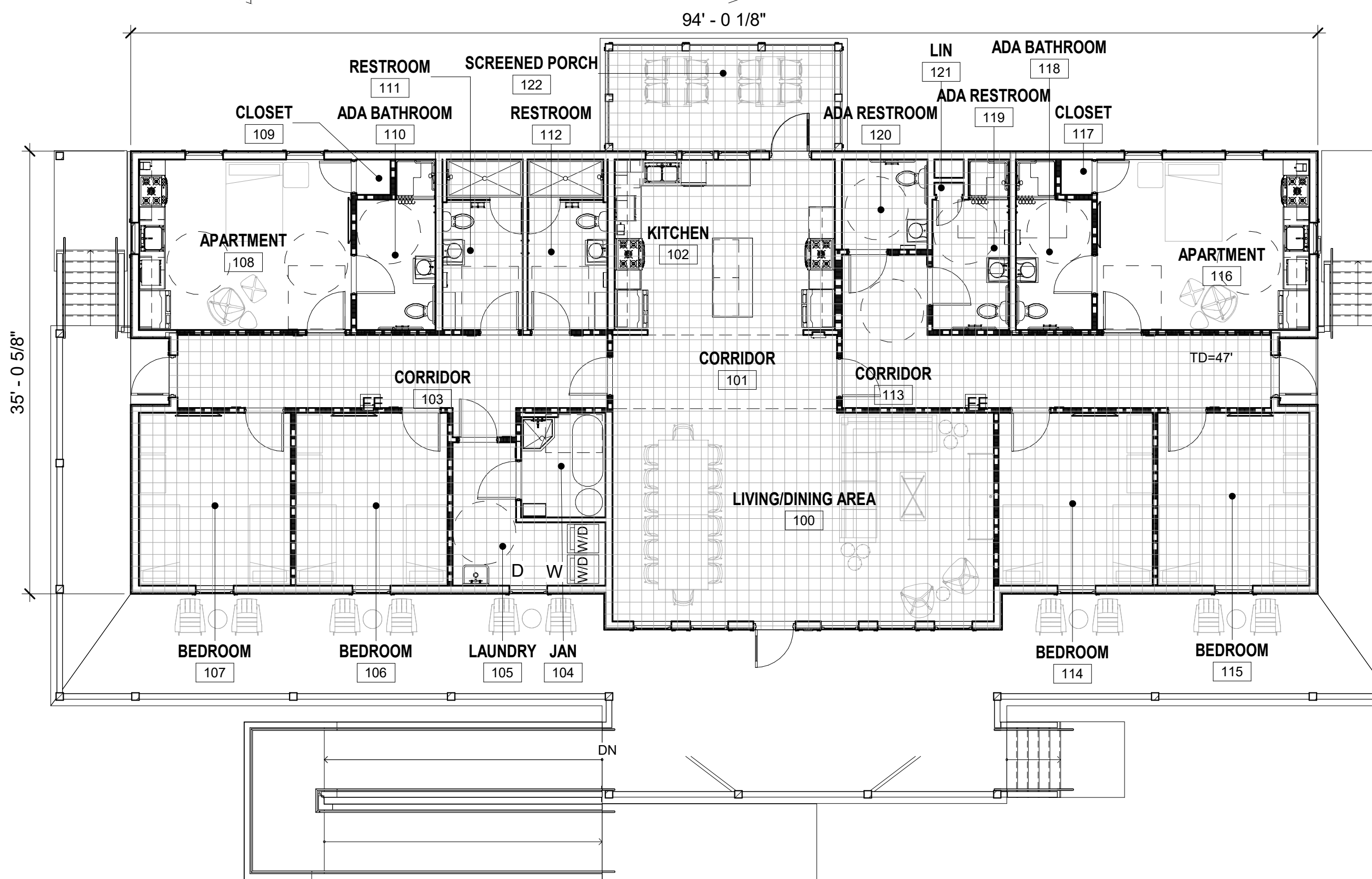
0 4' 8' 12'  
SCALE: 3/16" = 1'-0"



**B1** LEVEL 1 - LIFE SAFETY "USE" PLAN  
SCALE: 3/16" = 1'-0"

## IBC OCCUPANCY "USE" LEGEND FOR PLUMBING

	IBC / IPC - CH 29 / 4: RESIDENTIAL CONGREGATE LIVING FACILITY	2819 GSF
	IBC / IPC - CH 29 / 4: RESIDENTIAL APARTMENT	2 UNITS



**A2** LEVEL 1 - PLUMBING OCCUPANCY PLAN  
SCALE: 1/8" = 1'-0"



SHEET NOTES

----- PERIMETER OF AIR BARRIER

BUILDING SPACE ENCLOSED BY AIR BARRIER SYSTEM THAT IS CONTINUOUS AND CONNECTED ACROSS THE SIX FACES OF THE BUILDING ENVELOPE MEETING THE REQUIREMENTS OF SPECIFICATION SECTION 07 27 10.00 10 & UFC 3-101-01 3-6 (APPENDIX A-5.4)



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

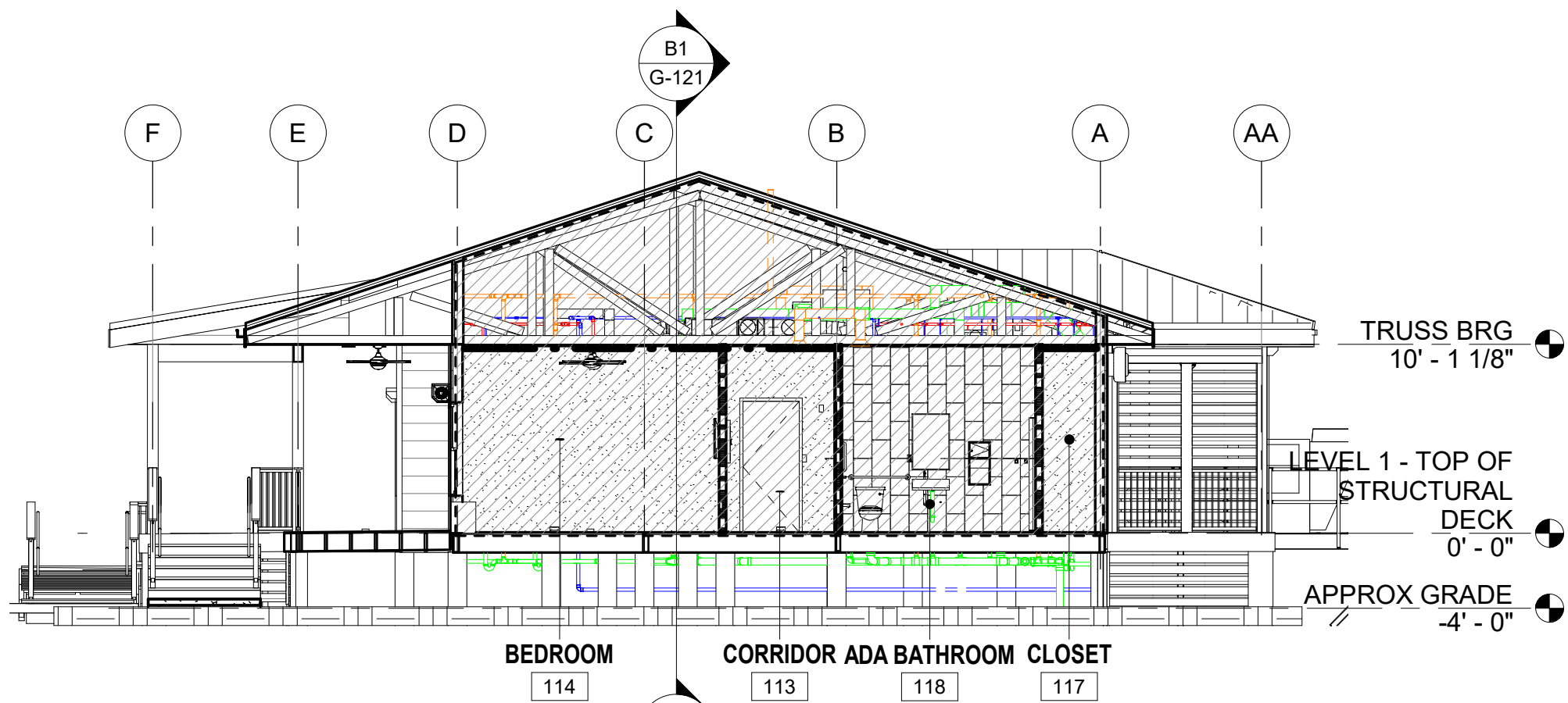
SHEET TITLE

AIR BARRIER

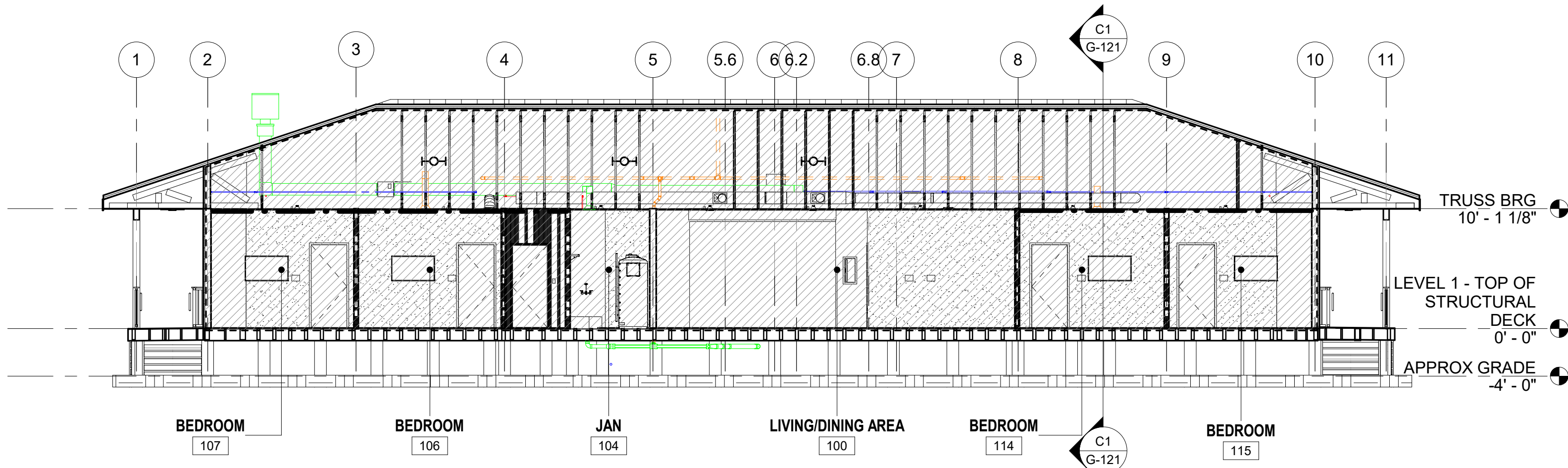
SHEET NUMBER

G-121

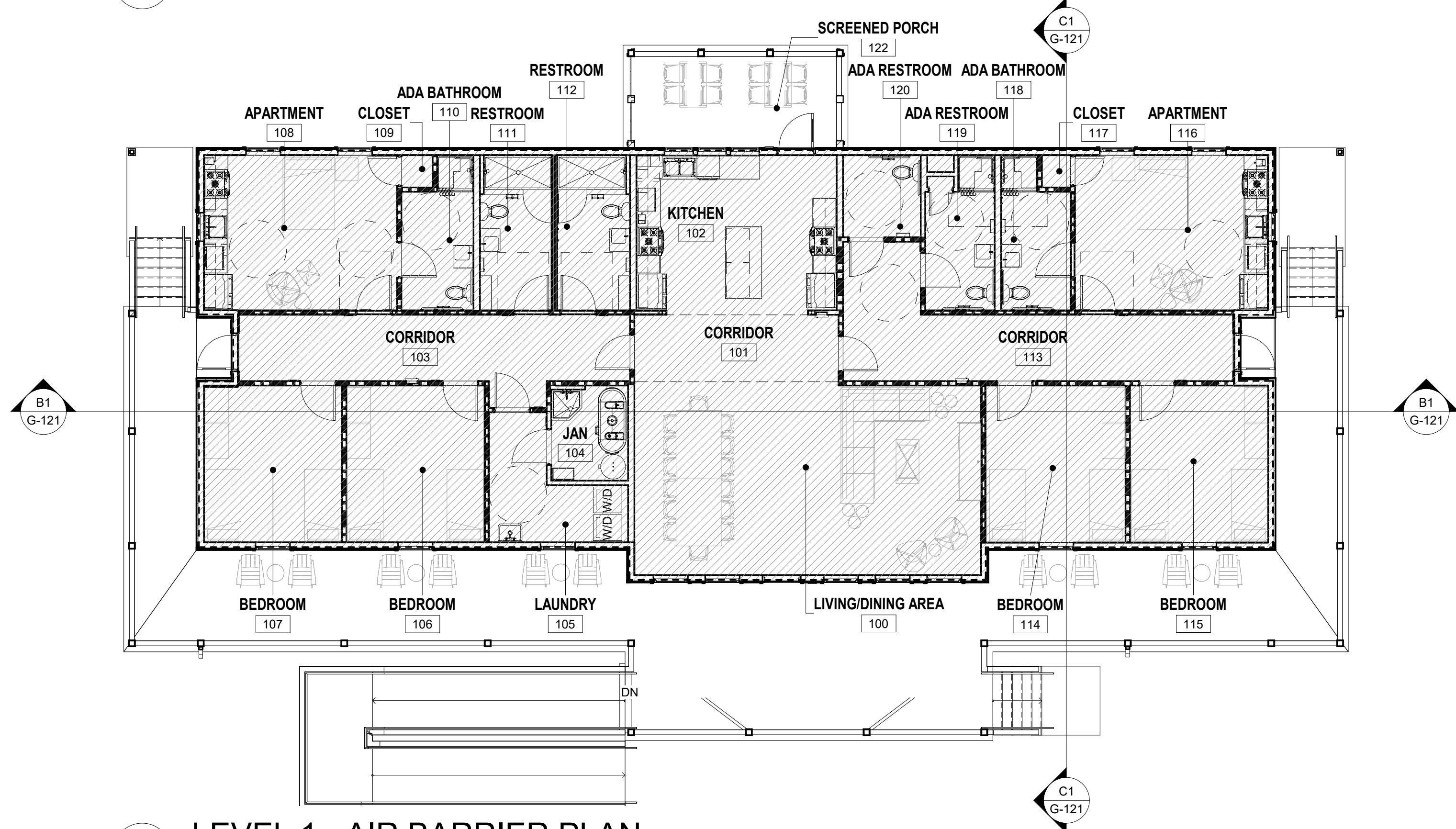
ORIGINAL SHEET SIZE:  
24" X 36"



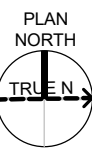
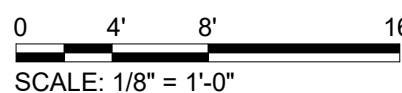
C1 AIR BARRIER SECTION - 01  
SCALE: 1/8" = 1'-0"



B1 AIR BARRIER SECTION - 02  
SCALE: 1/8" = 1'-0"

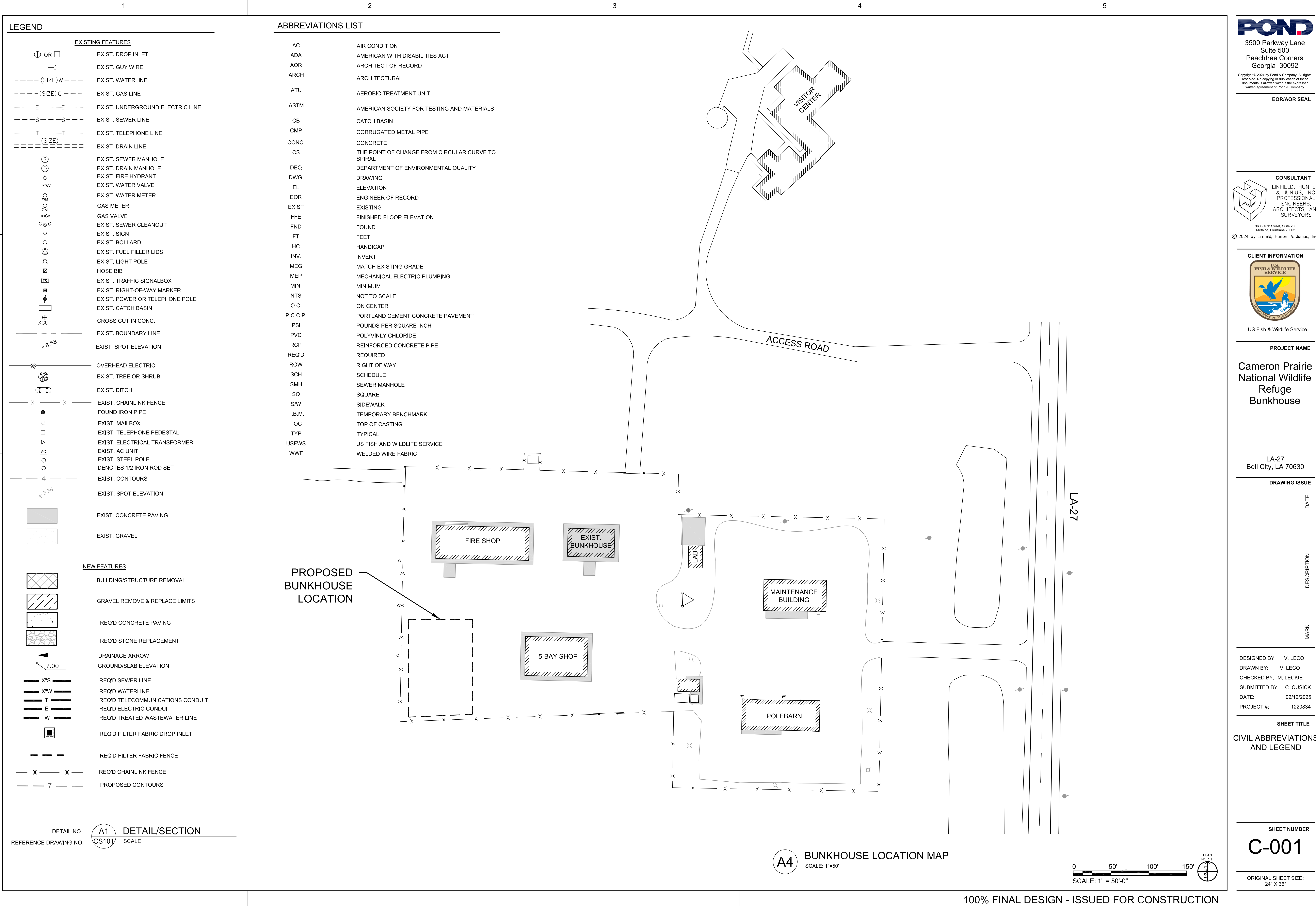


A1 LEVEL 1 - AIR BARRIER PLAN  
SCALE: 1/8" = 1'-0"



100% ISSUED FOR CONSTRUCTION



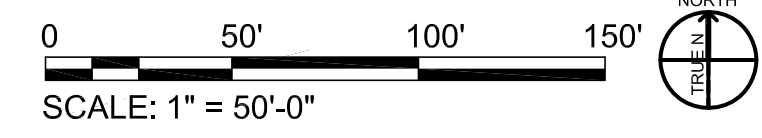


LEGEND	
EXISTING FEATURES	
	EXIST. DROP INLET
	EXIST. GUY WIRE
	EXIST. WATERLINE
	EXIST. GAS LINE
	EXIST. UNDERGROUND ELECTRIC LINE
	EXIST. SEWER LINE
	EXIST. TELEPHONE LINE
	EXIST. DRAIN LINE
	EXIST. SEWER MANHOLE
	EXIST. DRAIN MANHOLE
	EXIST. FIRE HYDRANT
	EXIST. WATER VALVE
	EXIST. WATER METER
	GAS METER
	GAS VALVE
	EXIST. SEWER CLEANOUT
	EXIST. SIGN
	EXIST. BOLLARD
	EXIST. FUEL FILLER LIDS
	EXIST. LIGHT POLE
	HOSE BIB
	EXIST. TRAFFIC SIGNALBOX
	EXIST. RIGHT-OF-WAY MARKER
	EXIST. POWER OR TELEPHONE POLE
	EXIST. CATCH BASIN
	CROSS CUT IN CONC.
	EXIST. BOUNDARY LINE
	EXIST. SPOT ELEVATION
	OVERHEAD ELECTRIC
	EXIST. TREE OR SHRUB
	EXIST. DITCH
	EXIST. CHAINLINK FENCE
	FOUND IRON PIPE
	EXIST. MAILBOX
	EXIST. TELEPHONE PEDESTAL
	EXIST. ELECTRICAL TRANSFORMER
	EXIST. AC UNIT
	EXIST. STEEL POLE
	DENOTES 1/2 IRON ROD SET
	EXIST. CONTOURS
	EXIST. SPOT ELEVATION
	EXIST. CONCRETE PAVING
	EXIST. GRAVEL
NEW FEATURES	
	BUILDING/STRUCTURE REMOVAL
	GRAVEL REMOVE & REPLACE LIMITS
	REQ'D CONCRETE PAVING
	REQ'D STONE REPLACEMENT
	DRAINAGE ARROW
	GROUND/SLAB ELEVATION
	REQ'D SEWER LINE
	REQ'D WATERLINE
	REQ'D TELECOMMUNICATIONS CONDUIT
	REQ'D ELECTRIC CONDUIT
	REQ'D TREATED WASTEWATER LINE
	REQ'D FILTER FABRIC DROP INLET
	REQ'D FILTER FABRIC FENCE
	REQ'D CHAINLINK FENCE
	PROPOSED CONTOURS

ABBREVIATIONS LIST	
AC	AIR CONDITION
ADA	AMERICAN WITH DISABILITIES ACT
AOR	ARCHITECT OF RECORD
ARCH	ARCHITECTURAL
ATU	AEROBIC TREATMENT UNIT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CONC.	CONCRETE
CS	THE POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL
DEQ	DEPARTMENT OF ENVIRONMENTAL QUALITY
DWG.	DRAWING
EL	ELEVATION
EOR	ENGINEER OF RECORD
EXIST	EXISTING
FFE	FINISHED FLOOR ELEVATION
FND	FOUND
FT	FEET
HC	HANDICAP
INV.	INVERT
MEG	MATCH EXISTING GRADE
MEP	MECHANICAL ELECTRIC PLUMBING
MIN.	MINIMUM
NTS	NOT TO SCALE
O.C.	ON CENTER
P.C.C.P.	PORTLAND CEMENT CONCRETE PAVEMENT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
ROW	RIGHT OF WAY
SCH	SCHEDULE
SMH	SEWER MANHOLE
SQ	SQUARE
S/W	SIDEWALK
T.B.M.	TEMPORARY BENCHMARK
TOC	TOP OF CASTING
TYP	TYPICAL
USFWS	US FISH AND WILDLIFE SERVICE
WWF	WELDED WIRE FABRIC

DETAIL NO. **A1** DETAIL/SECTION  
REFERENCE DRAWING NO. **CS101** SCALE

**A4** BUNKHOUSE LOCATION MAP  
SCALE: 1"=50'



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

**EOR/AOR SEAL**

**CONSULTANT**  
LINFIELD, HUNTER,  
& JUNIUS, INC.  
PROFESSIONAL  
ENGINEERS,  
ARCHITECTS, AND  
SURVEYORS

3608 18th Street, Suite 200  
Metairie, Louisiana 70002

© 2024 by Linfield, Hunter & Junius, Inc.

**CLIENT INFORMATION**

US Fish & Wildlife Service

**PROJECT NAME**

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

**DRAWING ISSUE**

DATE	DESCRIPTION	MARK

DESIGNED BY: V. LECO  
DRAWN BY: V. LECO  
CHECKED BY: M. LECKIE  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

**SHEET TITLE**

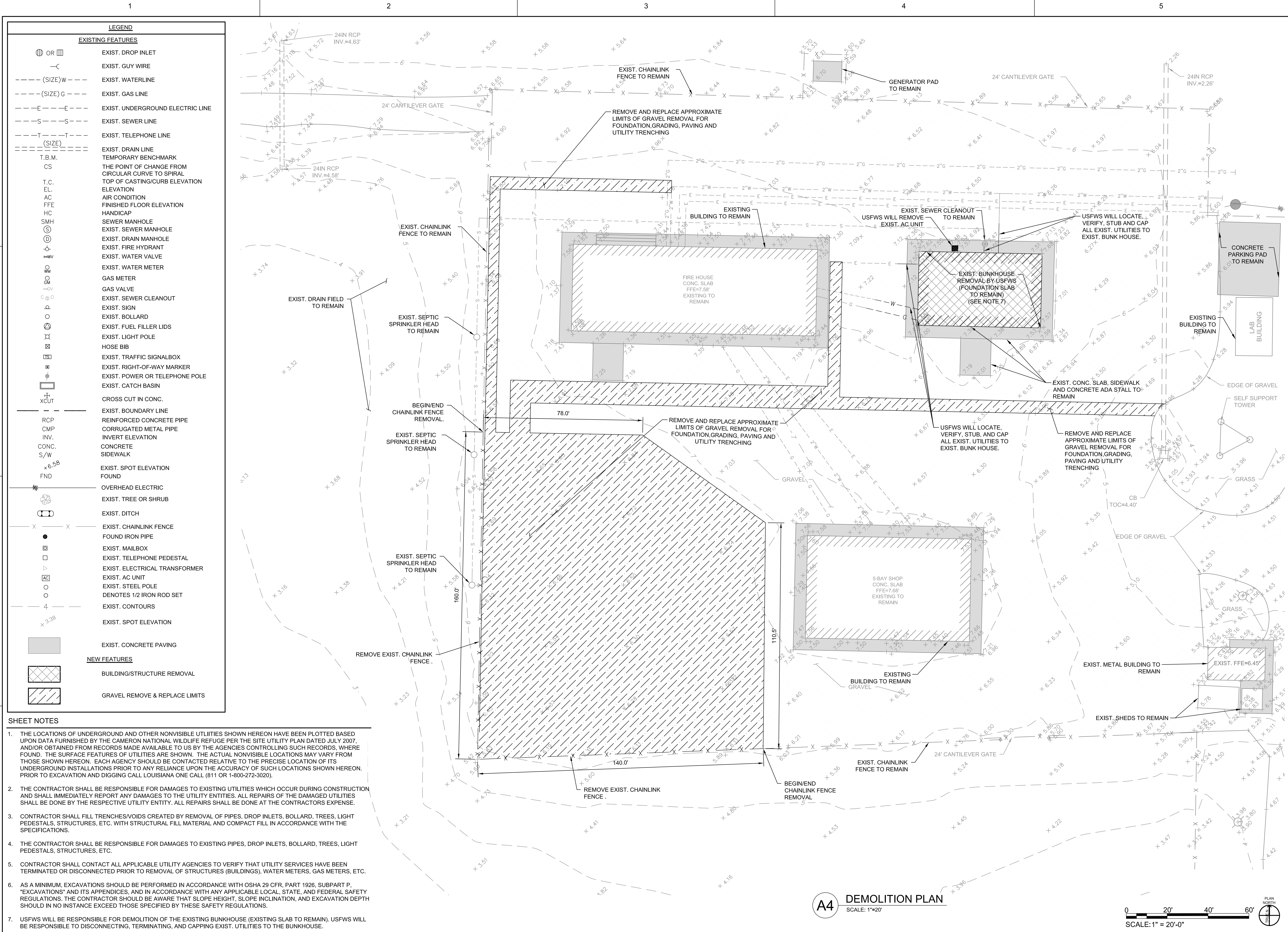
CIVIL ABBREVIATIONS  
AND LEGEND

**SHEET NUMBER**

**C-001**

ORIGINAL SHEET SIZE:  
24" X 36"

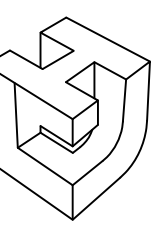




3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL



CONSULTANT  
LINFIELD, HUNTER,  
& JUNIUS, INC.  
PROFESSIONAL  
ENGINEERS, AND  
SURVEYORS

3608 18th Street, Suite 200  
Metairie, Louisiana 70002

© 2024 by Linfield, Hunter & Junius, Inc.

CLIENT INFORMATION



U.S. Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: V. LECO  
DRAWN BY: V. LECO  
CHECKED BY: M. LECKIE  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE  
DEMOLITION PLAN

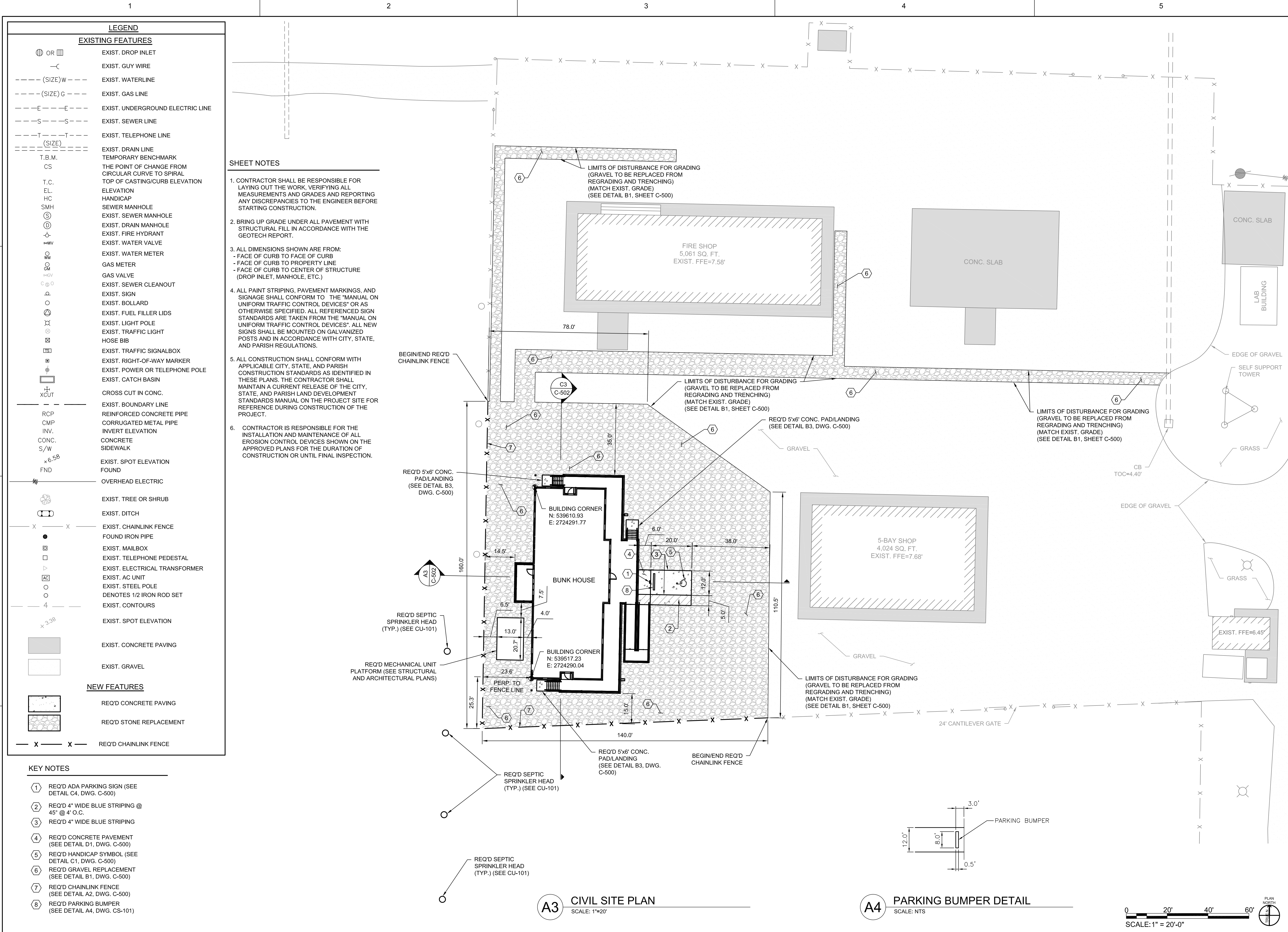
SHEET NUMBER

CD101

ORIGINAL SHEET SIZE:  
24" X 36"

100% FINAL DESIGN - ISSUED FOR CONSTRUCTION





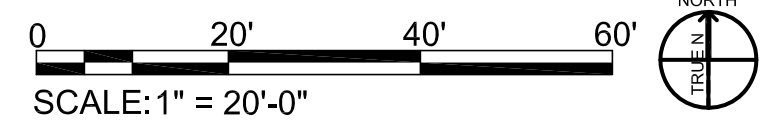
LEGEND	
EXISTING FEATURES	
	EXIST. DROP INLET
	EXIST. GUY WIRE
	EXIST. WATERLINE
	EXIST. GAS LINE
	EXIST. UNDERGROUND ELECTRIC LINE
	EXIST. SEWER LINE
	EXIST. TELEPHONE LINE
	EXIST. DRAIN LINE
	TEMPORARY BENCHMARK
	THE POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL
	TOP OF CASTING/CURB ELEVATION
	ELEVATION
	HANDICAP
	SEWER MANHOLE
	EXIST. SEWER MANHOLE
	EXIST. DRAIN MANHOLE
	EXIST. FIRE HYDRANT
	EXIST. WATER VALVE
	EXIST. WATER METER
	GAS METER
	GAS VALVE
	EXIST. SEWER CLEANOUT
	EXIST. SIGN
	EXIST. BOLLARD
	EXIST. FUEL FILLER LIDS
	EXIST. LIGHT POLE
	EXIST. TRAFFIC LIGHT
	HOSE BIB
	EXIST. TRAFFIC SIGNALBOX
	EXIST. RIGHT-OF-WAY MARKER
	EXIST. POWER OR TELEPHONE POLE
	EXIST. CATCH BASIN
	CROSS CUT IN CONC.
	EXIST. BOUNDARY LINE
	REINFORCED CONCRETE PIPE
	CORRUGATED METAL PIPE
	INVERT ELEVATION
	CONCRETE SIDEWALK
	EXIST. SPOT ELEVATION
	FUND
	OVERHEAD ELECTRIC
	EXIST. TREE OR SHRUB
	EXIST. DITCH
	EXIST. CHAINLINK FENCE
	FOUND IRON PIPE
	EXIST. MAILBOX
	EXIST. TELEPHONE PEDESTAL
	EXIST. ELECTRICAL TRANSFORMER
	EXIST. AC UNIT
	EXIST. STEEL POLE
	DENOTES 1/2 IRON ROD SET
	EXIST. CONTOURS
	EXIST. SPOT ELEVATION
	EXIST. CONCRETE PAVING
	EXIST. GRAVEL
NEW FEATURES	
	REQ'D CONCRETE PAVING
	REQ'D STONE REPLACEMENT
	REQ'D CHAINLINK FENCE

- KEY NOTES
- 1 REQ'D ADA PARKING SIGN (SEE DETAIL C4, DWG. C-500)
  - 2 REQ'D 4" WIDE BLUE STRIPING @ 45° @ 4' O.C.
  - 3 REQ'D 4" WIDE BLUE STRIPING
  - 4 REQ'D CONCRETE PAVEMENT (SEE DETAIL D1, DWG. C-500)
  - 5 REQ'D HANDICAP SYMBOL (SEE DETAIL C1, DWG. C-500)
  - 6 REQ'D GRAVEL REPLACEMENT (SEE DETAIL B1, DWG. C-500)
  - 7 REQ'D CHAINLINK FENCE (SEE DETAIL A2, DWG. C-500)
  - 8 REQ'D PARKING BUMPER (SEE DETAIL A4, DWG. CS-101)

- SHEET NOTES
- CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK, VERIFYING ALL MEASUREMENTS AND GRADES AND REPORTING ANY DISCREPANCIES TO THE ENGINEER BEFORE STARTING CONSTRUCTION.
  - BRING UP GRADE UNDER ALL PAVEMENT WITH STRUCTURAL FILL IN ACCORDANCE WITH THE GEOTECH REPORT.
  - ALL DIMENSIONS SHOWN ARE FROM:
    - FACE OF CURB TO FACE OF CURB
    - FACE OF CURB TO PROPERTY LINE
    - FACE OF CURB TO CENTER OF STRUCTURE (DROP INLET, MANHOLE, ETC.)
  - ALL PAINT STRIPING, PAVEMENT MARKINGS, AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" OR AS OTHERWISE SPECIFIED. ALL REFERENCED SIGN STANDARDS ARE TAKEN FROM THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". ALL NEW SIGNS SHALL BE MOUNTED ON GALVANIZED POSTS AND IN ACCORDANCE WITH CITY, STATE, AND PARISH REGULATIONS.
  - ALL CONSTRUCTION SHALL CONFORM WITH APPLICABLE CITY, STATE, AND PARISH CONSTRUCTION STANDARDS AS IDENTIFIED IN THESE PLANS. THE CONTRACTOR SHALL MAINTAIN A CURRENT RELEASE OF THE CITY, STATE, AND PARISH LAND DEVELOPMENT STANDARDS MANUAL ON THE PROJECT SITE FOR REFERENCE DURING CONSTRUCTION OF THE PROJECT.
  - CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHOWN ON THE APPROVED PLANS FOR THE DURATION OF CONSTRUCTION OR UNTIL FINAL INSPECTION.

A3 CIVIL SITE PLAN  
SCALE: 1"=20'

A4 PARKING BUMPER DETAIL  
SCALE: NTS



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT  
LINFIELD, HUNTER, & JUNIUS, INC.  
PROFESSIONAL ENGINEERS, ARCHITECTS, AND SURVEYORS

3608 18th Street, Suite 200  
Metairie, Louisiana 70002

© 2024 by Linfield, Hunter & Junius, Inc.

CLIENT INFORMATION  
U.S. FISH & WILDLIFE SERVICE

US Fish & Wildlife Service

PROJECT NAME  
Cameron Prairie National Wildlife Refuge Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

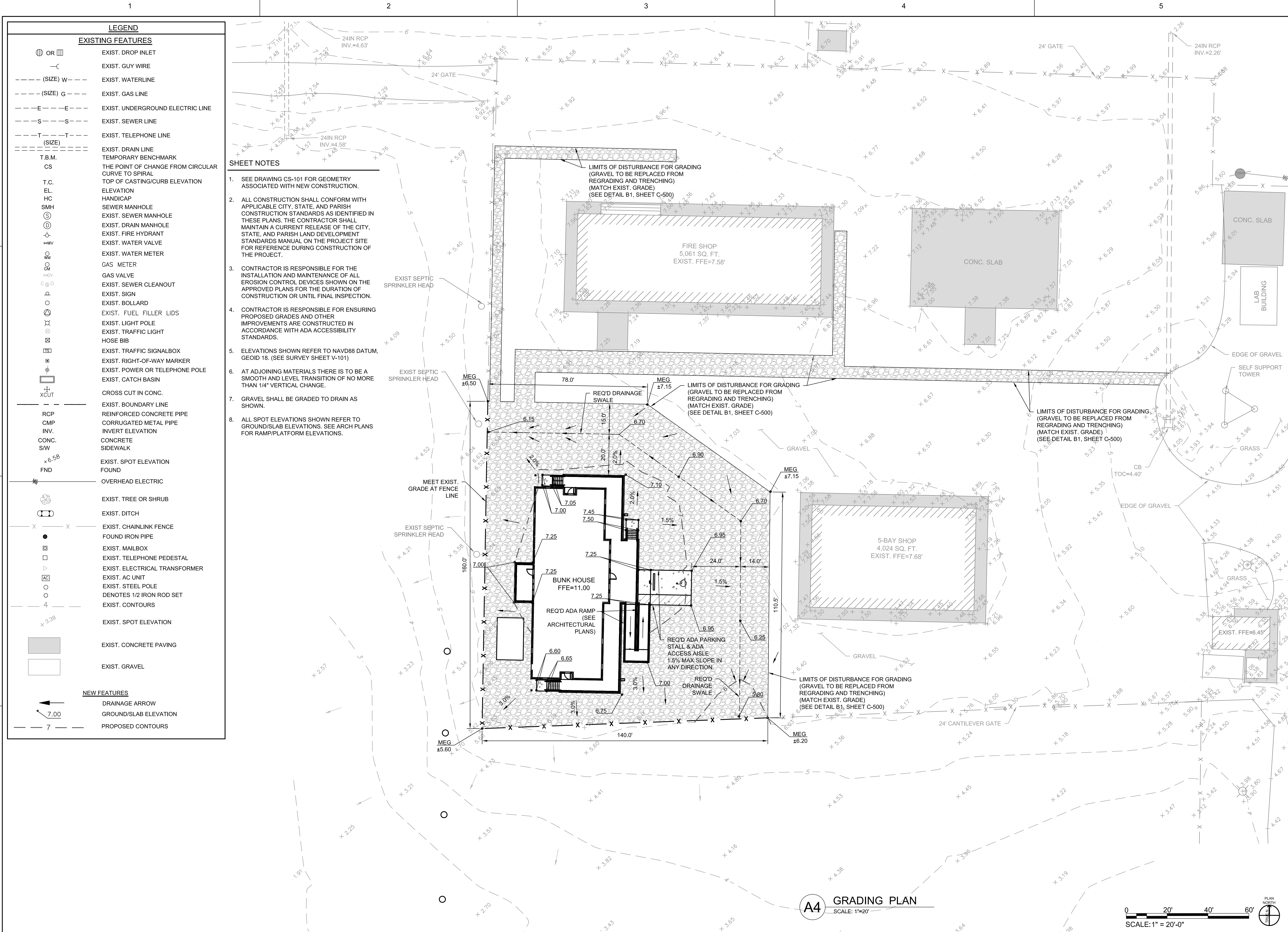
DESIGNED BY: V. LECO  
DRAWN BY: V. LECO  
CHECKED BY: M. LECKIE  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE  
CIVIL SITE PLAN

SHEET NUMBER  
CS101

ORIGINAL SHEET SIZE:  
24" X 36"





**POND**  
3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092  
Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

**EOR/AOR SEAL**

**CONSULTANT**  
LINFIELD, HUNTER,  
& JUNIUS, INC.  
PROFESSIONAL  
ENGINEERS, AND  
SURVEYORS  
3608 18th Street, Suite 200  
Metairie, Louisiana 70002  
© 2024 by Linfield, Hunter & Junius, Inc.

**CLIENT INFORMATION**  
  
U.S. Fish & Wildlife Service

**PROJECT NAME**  
Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

**DRAWING ISSUE**  
LA-27  
Bell City, LA 70630

**DATE**

**DESCRIPTION**

**MARK**

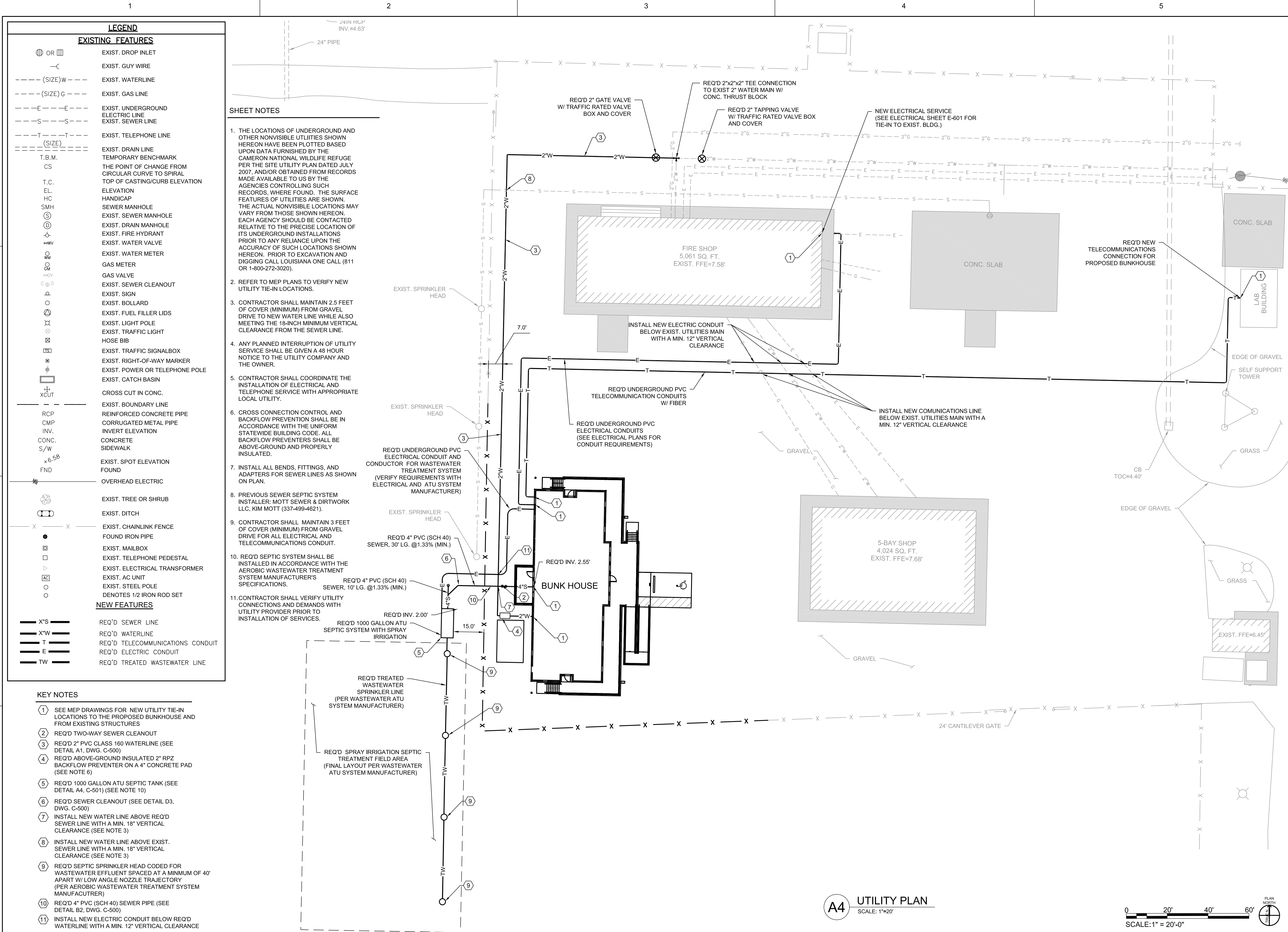
DESIGNED BY: V. LECO  
DRAWN BY: V. LECO  
CHECKED BY: M. LECKIE  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

**SHEET TITLE**  
GRADING PLAN

**SHEET NUMBER**  
CG101

ORIGINAL SHEET SIZE:  
24" X 36"





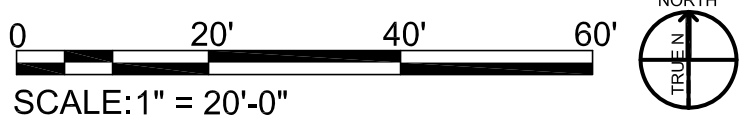
LEGEND	
EXISTING FEATURES	
	EXIST. DROP INLET
	EXIST. GUY WIRE
	EXIST. WATERLINE
	EXIST. GAS LINE
	EXIST. UNDERGROUND ELECTRIC LINE
	EXIST. SEWER LINE
	EXIST. TELEPHONE LINE
	EXIST. DRAIN LINE
	TEMPORARY BENCHMARK
	THE POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL
	TOP OF CASTING/CURB ELEVATION
	ELEVATION
	HANDICAP
	SEWER MANHOLE
	EXIST. SEWER MANHOLE
	EXIST. DRAIN MANHOLE
	EXIST. FIRE HYDRANT
	EXIST. WATER VALVE
	EXIST. WATER METER
	GAS METER
	GAS VALVE
	EXIST. SEWER CLEANOUT
	EXIST. SIGN
	EXIST. BOLLARD
	EXIST. FUEL FILLER LIDS
	EXIST. LIGHT POLE
	EXIST. TRAFFIC LIGHT
	HOSE BIB
	EXIST. TRAFFIC SIGNALBOX
	EXIST. RIGHT-OF-WAY MARKER
	EXIST. POWER OR TELEPHONE POLE
	EXIST. CATCH BASIN
	CROSS CUT IN CONC.
	EXIST. BOUNDARY LINE
	REINFORCED CONCRETE PIPE
	CORRUGATED METAL PIPE
	INVERT ELEVATION
	CONCRETE SIDEWALK
	EXIST. SPOT ELEVATION FOUND
	OVERHEAD ELECTRIC
	EXIST. TREE OR SHRUB
	EXIST. DITCH
	EXIST. CHAINLINK FENCE
	FOUND IRON PIPE
	EXIST. MAILBOX
	EXIST. TELEPHONE PEDESTAL
	EXIST. ELECTRICAL TRANSFORMER
	EXIST. AC UNIT
	EXIST. STEEL POLE
	DENOTES 1/2 IRON ROD SET
NEW FEATURES	
	REQ'D SEWER LINE
	REQ'D WATERLINE
	REQ'D TELECOMMUNICATIONS CONDUIT
	REQ'D ELECTRIC CONDUIT
	REQ'D TREATED WASTEWATER LINE

- KEY NOTES**
- SEE MEP DRAWINGS FOR NEW UTILITY TIE-IN LOCATIONS TO THE PROPOSED BUNKHOUSE AND FROM EXISTING STRUCTURES
  - REQ'D TWO-WAY SEWER CLEANOUT
  - REQ'D 2" PVC CLASS 160 WATERLINE (SEE DETAIL A1, DWG. C-500)
  - REQ'D ABOVE-GROUND INSULATED 2" RPZ BACKFLOW PREVENTER ON A 4" CONCRETE PAD (SEE NOTE 6)
  - REQ'D 1000 GALLON ATU SEPTIC TANK (SEE DETAIL A4, C-501) (SEE NOTE 10)
  - REQ'D SEWER CLEANOUT (SEE DETAIL D3, DWG. C-500)
  - INSTALL NEW WATER LINE ABOVE REQ'D SEWER LINE WITH A MIN. 18" VERTICAL CLEARANCE (SEE NOTE 3)
  - INSTALL NEW WATER LINE ABOVE EXIST. SEWER LINE WITH A MIN. 18" VERTICAL CLEARANCE (SEE NOTE 3)
  - REQ'D SEPTIC SPRINKLER HEAD CODED FOR WASTEWATER EFFLUENT SPACED AT A MINIMUM OF 40' APART W/ LOW ANGLE NOZZLE TRAJECTORY (PER AEROBIC WASTEWATER TREATMENT SYSTEM MANUFACTURER)
  - REQ'D 4" PVC (SCH 40) SEWER PIPE (SEE DETAIL B2, DWG. C-500)
  - INSTALL NEW ELECTRIC CONDUIT BELOW REQ'D WATERLINE WITH A MIN. 12" VERTICAL CLEARANCE

**SHEET NOTES**

- THE LOCATIONS OF UNDERGROUND AND OTHER NONVISIBLE UTILITIES SHOWN HEREON HAVE BEEN PLOTTED BASED UPON DATA FURNISHED BY THE CAMERON NATIONAL WILDLIFE REFUGE PER THE SITE UTILITY PLAN DATED JULY 2007, AND/OR OBTAINED FROM RECORDS MADE AVAILABLE TO US BY THE AGENCIES CONTROLLING SUCH RECORDS. WHERE FOUND, THE SURFACE FEATURES OF UTILITIES ARE SHOWN. THE ACTUAL NONVISIBLE LOCATIONS MAY VARY FROM THOSE SHOWN HEREON. EACH AGENCY SHOULD BE CONTACTED RELATIVE TO THE PRECISE LOCATION OF ITS UNDERGROUND INSTALLATIONS PRIOR TO ANY RELIANCE UPON THE ACCURACY OF SUCH LOCATIONS SHOWN HEREON. PRIOR TO EXCAVATION AND DIGGING CALL LOUISIANA ONE CALL (811 OR 1-800-272-3020).
- REFER TO MEP PLANS TO VERIFY NEW UTILITY TIE-IN LOCATIONS.
- CONTRACTOR SHALL MAINTAIN 2.5 FEET OF COVER (MINIMUM) FROM GRAVEL DRIVE TO NEW WATER LINE WHILE ALSO MEETING THE 18-INCH MINIMUM VERTICAL CLEARANCE FROM THE SEWER LINE.
- ANY PLANNED INTERRUPTION OF UTILITY SERVICE SHALL BE GIVEN A 48 HOUR NOTICE TO THE UTILITY COMPANY AND THE OWNER.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL AND TELEPHONE SERVICE WITH APPROPRIATE LOCAL UTILITY.
- CROSS CONNECTION CONTROL AND BACKFLOW PREVENTION SHALL BE IN ACCORDANCE WITH THE UNIFORM STATEWIDE BUILDING CODE. ALL BACKFLOW PREVENTERS SHALL BE ABOVE-GROUND AND PROPERLY INSULATED.
- INSTALL ALL BENDS, FITTINGS, AND ADAPTERS FOR SEWER LINES AS SHOWN ON PLAN.
- PREVIOUS SEWER SEPTIC SYSTEM INSTALLER: MOTT SEWER & DIRTWORK LLC, KIM MOTT (337-499-4621).
- CONTRACTOR SHALL MAINTAIN 3 FEET OF COVER (MINIMUM) FROM GRAVEL DRIVE FOR ALL ELECTRICAL AND TELECOMMUNICATIONS CONDUIT.
- REQ'D SEPTIC SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE AEROBIC WASTEWATER TREATMENT SYSTEM MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY UTILITY CONNECTIONS AND DEMANDS WITH UTILITY PROVIDER PRIOR TO INSTALLATION OF SERVICES.

**A4** UTILITY PLAN  
SCALE: 1"=20'



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

**EOR/AOR SEAL**

**CONSULTANT**  
LINFIELD, HUNTER,  
& JUNIUS, INC.  
PROFESSIONAL  
ENGINEERS, ARCHITECTS, AND  
SURVEYORS

3608 18th Street, Suite 200  
Metairie, Louisiana 70002

© 2024 by Linfield, Hunter & Junius, Inc.

**CLIENT INFORMATION**

U.S. Fish & Wildlife Service

**PROJECT NAME**

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

**DRAWING ISSUE**

DATE

DESCRIPTION

MARK

DESIGNED BY: V. LECO  
DRAWN BY: V. LECO  
CHECKED BY: M. LECKIE  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

**SHEET TITLE**

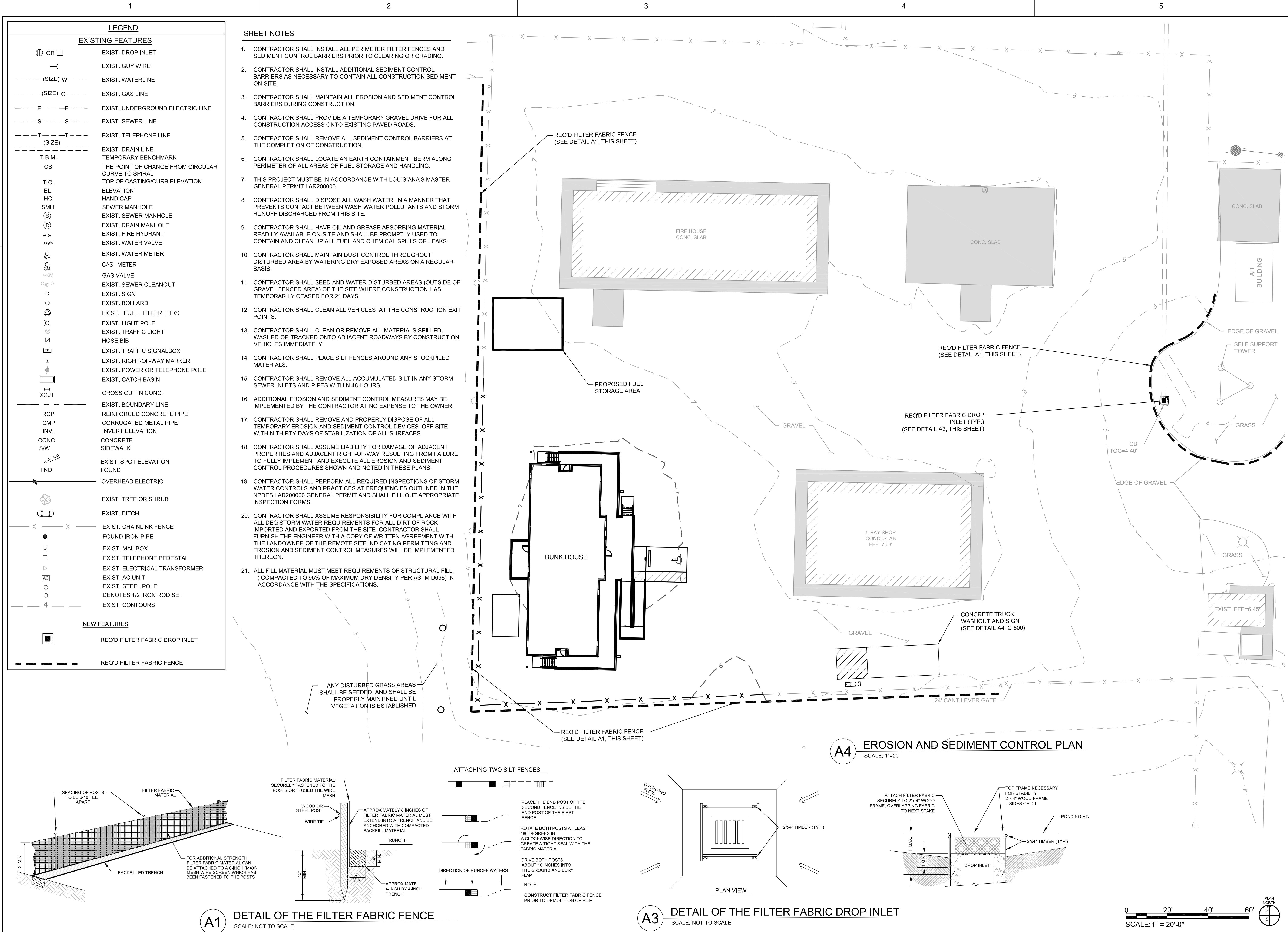
UTILITY PLAN

**SHEET NUMBER**

CU101

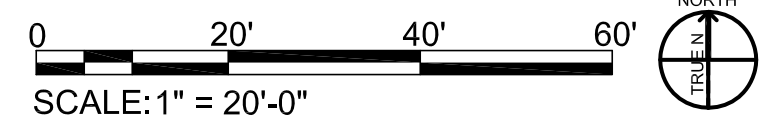
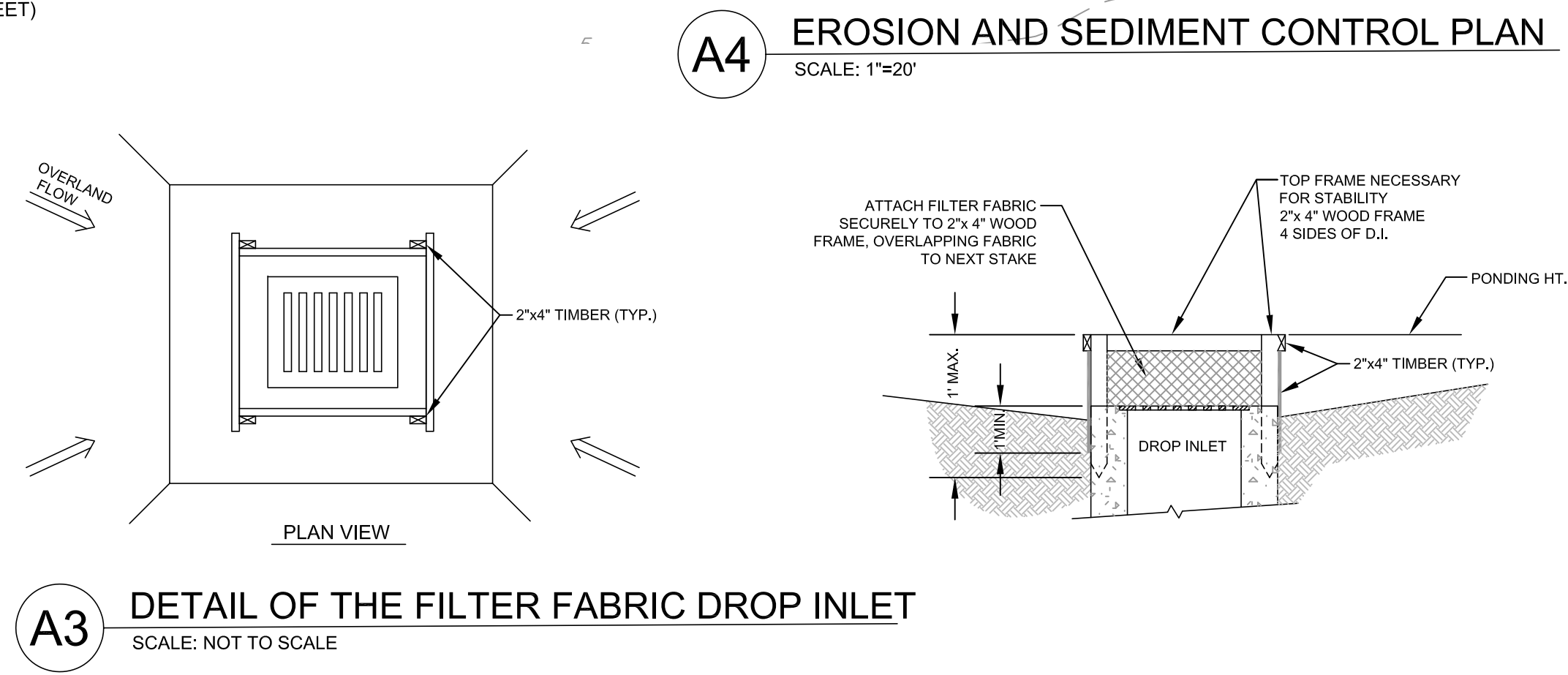
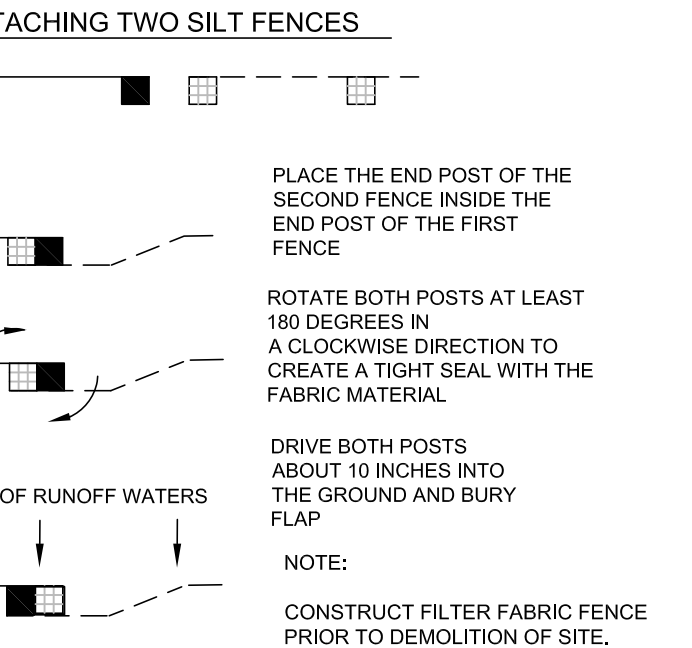
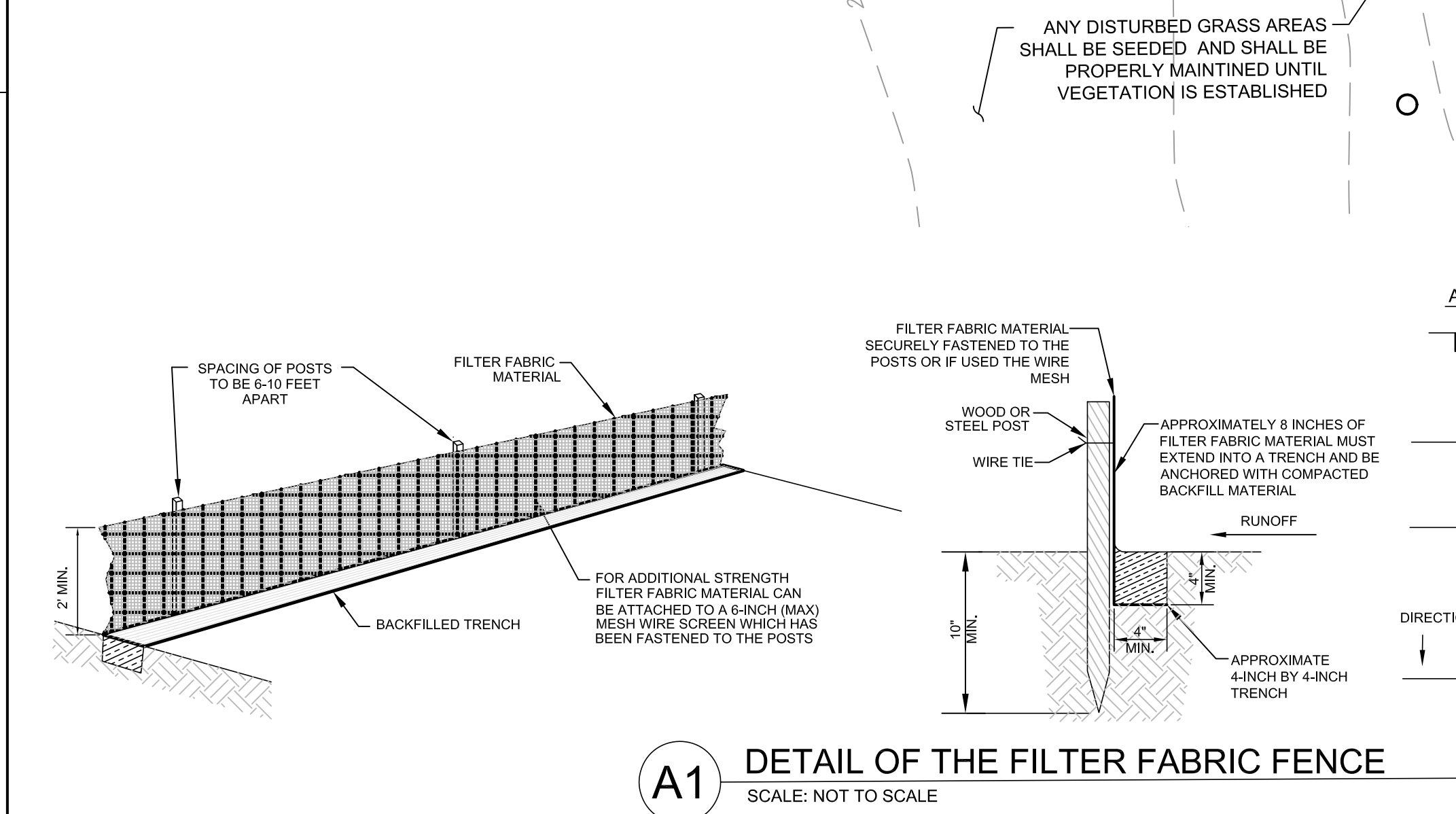
ORIGINAL SHEET SIZE:  
24" X 36"





LEGEND	
EXISTING FEATURES	
	EXIST. DROP INLET
	EXIST. GUY WIRE
	EXIST. WATERLINE
	EXIST. GAS LINE
	EXIST. UNDERGROUND ELECTRIC LINE
	EXIST. SEWER LINE
	EXIST. TELEPHONE LINE
	EXIST. DRAIN LINE
	TEMPORARY BENCHMARK
	THE POINT OF CHANGE FROM CIRCULAR CURVE TO SPIRAL
	TOP OF CASTING/CURB ELEVATION
	ELEVATION
	HANDICAP
	SEWER MANHOLE
	EXIST. SEWER MANHOLE
	EXIST. DRAIN MANHOLE
	EXIST. FIRE HYDRANT
	EXIST. WATER VALVE
	EXIST. WATER METER
	GAS METER
	GAS VALVE
	EXIST. SEWER CLEANOUT
	EXIST. SIGN
	EXIST. BOLLARD
	EXIST. FUEL FILLER LIDS
	EXIST. LIGHT POLE
	EXIST. TRAFFIC LIGHT
	HOSE BIB
	EXIST. TRAFFIC SIGNALBOX
	EXIST. RIGHT-OF-WAY MARKER
	EXIST. POWER OR TELEPHONE POLE
	EXIST. CATCH BASIN
	CROSS CUT IN CONC.
	EXIST. BOUNDARY LINE
	REINFORCED CONCRETE PIPE
	CORRUGATED METAL PIPE
	INVERT ELEVATION
	CONCRETE SIDEWALK
	EXIST. SPOT ELEVATION
	FOUND
	OVERHEAD ELECTRIC
	EXIST. TREE OR SHRUB
	EXIST. DITCH
	EXIST. CHAINLINK FENCE
	FOUND IRON PIPE
	EXIST. MAILBOX
	EXIST. TELEPHONE PEDESTAL
	EXIST. ELECTRICAL TRANSFORMER
	EXIST. AC UNIT
	EXIST. STEEL POLE
	DENOTES 1/2 IRON ROD SET
	EXIST. CONTOURS
NEW FEATURES	
	REQ'D FILTER FABRIC DROP INLET
	REQ'D FILTER FABRIC FENCE

- SHEET NOTES
- CONTRACTOR SHALL INSTALL ALL PERIMETER FILTER FENCES AND SEDIMENT CONTROL BARRIERS PRIOR TO CLEARING OR GRADING.
  - CONTRACTOR SHALL INSTALL ADDITIONAL SEDIMENT CONTROL BARRIERS AS NECESSARY TO CONTAIN ALL CONSTRUCTION SEDIMENT ON SITE.
  - CONTRACTOR SHALL MAINTAIN ALL EROSION AND SEDIMENT CONTROL BARRIERS DURING CONSTRUCTION.
  - CONTRACTOR SHALL PROVIDE A TEMPORARY GRAVEL DRIVE FOR ALL CONSTRUCTION ACCESS ONTO EXISTING PAVED ROADS.
  - CONTRACTOR SHALL REMOVE ALL SEDIMENT CONTROL BARRIERS AT THE COMPLETION OF CONSTRUCTION.
  - CONTRACTOR SHALL LOCATE AN EARTH CONTAINMENT BERM ALONG PERIMETER OF ALL AREAS OF FUEL STORAGE AND HANDLING.
  - THIS PROJECT MUST BE IN ACCORDANCE WITH LOUISIANA'S MASTER GENERAL PERMIT LAR200000.
  - CONTRACTOR SHALL DISPOSE ALL WASH WATER IN A MANNER THAT PREVENTS CONTACT BETWEEN WASH WATER POLLUTANTS AND STORM RUNOFF DISCHARGED FROM THIS SITE.
  - CONTRACTOR SHALL HAVE OIL AND GREASE ABSORBING MATERIAL READILY AVAILABLE ON-SITE AND SHALL BE PROMPTLY USED TO CONTAIN AND CLEAN UP ALL FUEL AND CHEMICAL SPILLS OR LEAKS.
  - CONTRACTOR SHALL MAINTAIN DUST CONTROL THROUGHOUT DISTURBED AREA BY WATERING DRY EXPOSED AREAS ON A REGULAR BASIS.
  - CONTRACTOR SHALL SEED AND WATER DISTURBED AREAS (OUTSIDE OF GRAVEL FENCED AREA) OF THE SITE WHERE CONSTRUCTION HAS TEMPORARILY CEASED FOR 21 DAYS.
  - CONTRACTOR SHALL CLEAN ALL VEHICLES AT THE CONSTRUCTION EXIT POINTS.
  - CONTRACTOR SHALL CLEAN OR REMOVE ALL MATERIALS SPILLED, WASHED OR TRACKED ONTO ADJACENT ROADWAYS BY CONSTRUCTION VEHICLES IMMEDIATELY.
  - CONTRACTOR SHALL PLACE SILT FENCES AROUND ANY STOCKPILED MATERIALS.
  - CONTRACTOR SHALL REMOVE ALL ACCUMULATED SILT IN ANY STORM SEWER INLETS AND PIPES WITHIN 48 HOURS.
  - ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE IMPLEMENTED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
  - CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES OFF-SITE WITHIN THIRTY DAYS OF STABILIZATION OF ALL SURFACES.
  - CONTRACTOR SHALL ASSUME LIABILITY FOR DAMAGE OF ADJACENT PROPERTIES AND ADJACENT RIGHT-OF-WAY RESULTING FROM FAILURE TO FULLY IMPLEMENT AND EXECUTE ALL EROSION AND SEDIMENT CONTROL PROCEDURES SHOWN AND NOTED IN THESE PLANS.
  - CONTRACTOR SHALL PERFORM ALL REQUIRED INSPECTIONS OF STORM WATER CONTROLS AND PRACTICES AT FREQUENCIES OUTLINED IN THE NPDES LAR200000 GENERAL PERMIT AND SHALL FILL OUT APPROPRIATE INSPECTION FORMS.
  - CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR COMPLIANCE WITH ALL DEQ STORM WATER REQUIREMENTS FOR ALL DIRT OF ROCK IMPORTED AND EXPORTED FROM THE SITE. CONTRACTOR SHALL FURNISH THE ENGINEER WITH A COPY OF WRITTEN AGREEMENT WITH THE LANDOWNER OF THE REMOTE SITE INDICATING PERMITTING AND EROSION AND SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED THEREON.
  - ALL FILL MATERIAL MUST MEET REQUIREMENTS OF STRUCTURAL FILL, (COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER ASTM D698) IN ACCORDANCE WITH THE SPECIFICATIONS.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT  
LINFIELD, HUNTER,  
& JUNIUS, INC.  
PROFESSIONAL  
ENGINEERS,  
ARCHITECTS, AND  
SURVEYORS

3608 18th Street, Suite 200  
Metairie, Louisiana 70002

© 2024 by Linfield, Hunter & Junius, Inc.

CLIENT INFORMATION

U.S. Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: V. LECO  
DRAWN BY: V. LECO  
CHECKED BY: M. LECKIE  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

EROSION AND  
SEDIMENT CONTROL  
PLAN

SHEET NUMBER

CE101

ORIGINAL SHEET SIZE:  
24" X 36"

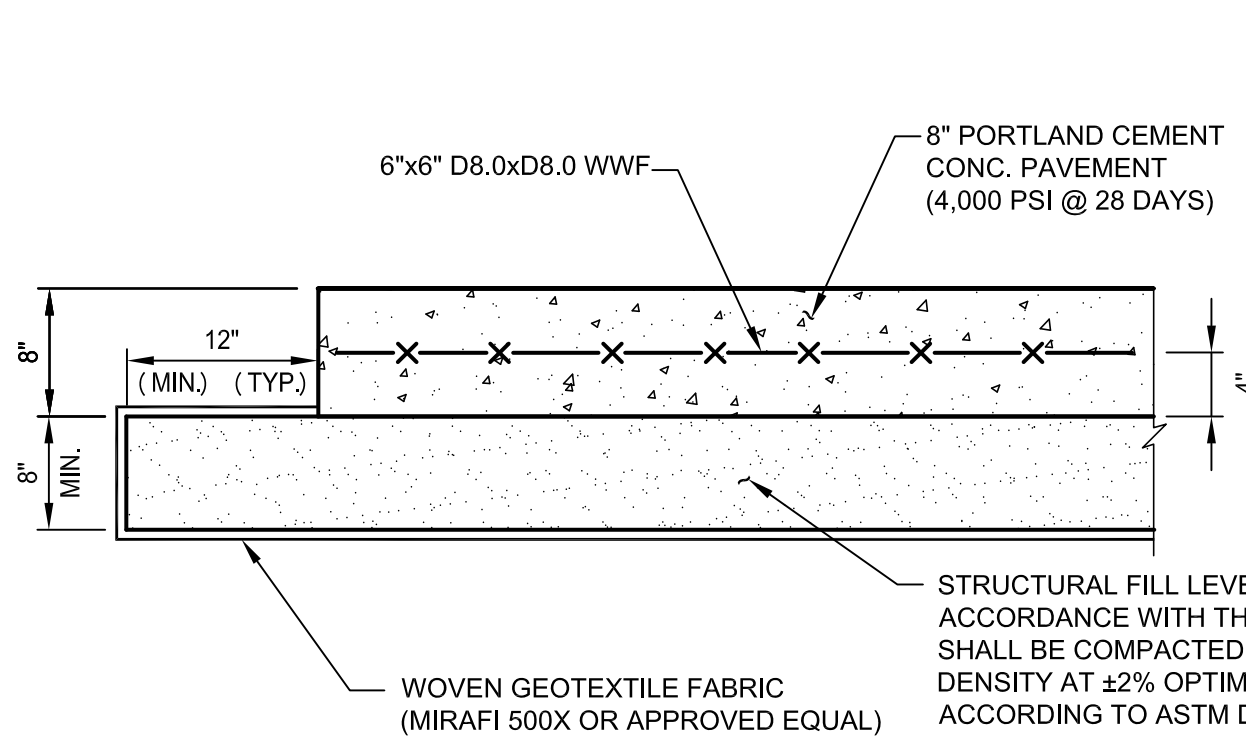


D

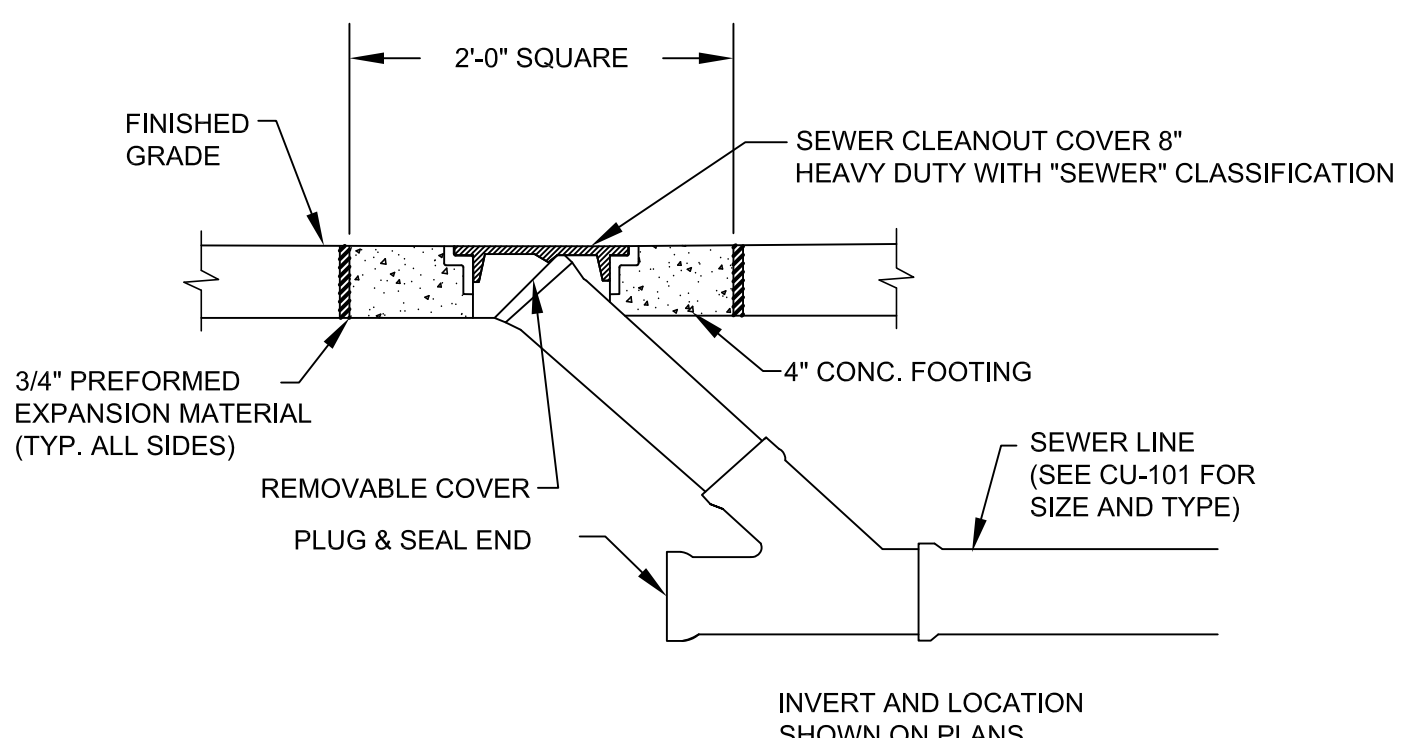
C

B

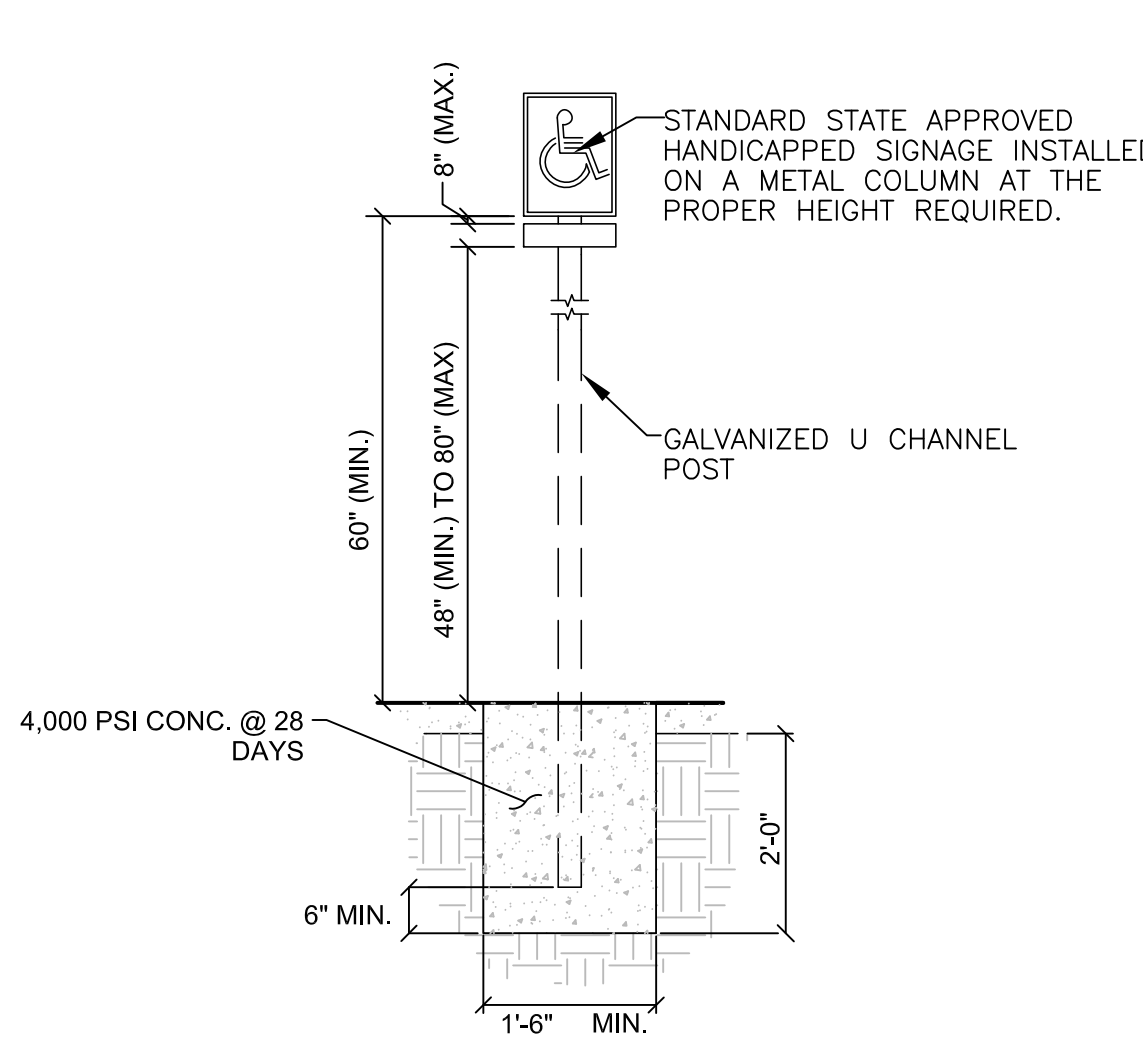
A



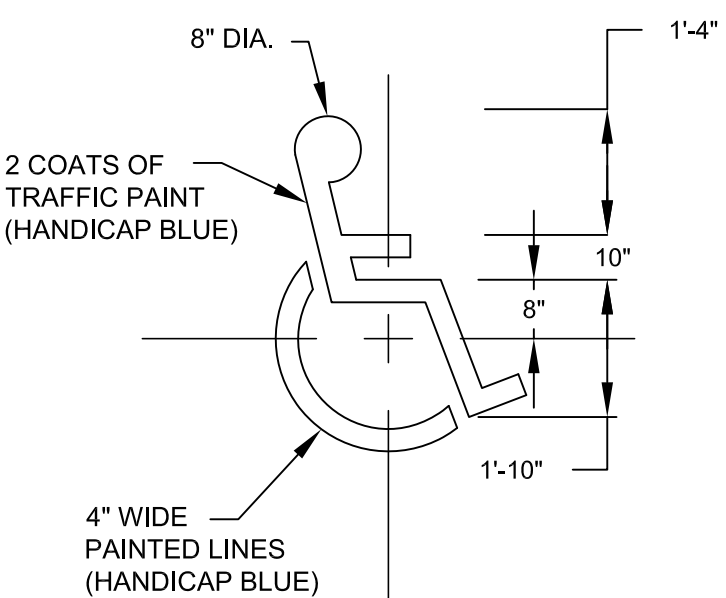
D1 8" P.C.C.P. ADA STALL SECTION  
SCALE: NOT TO SCALE



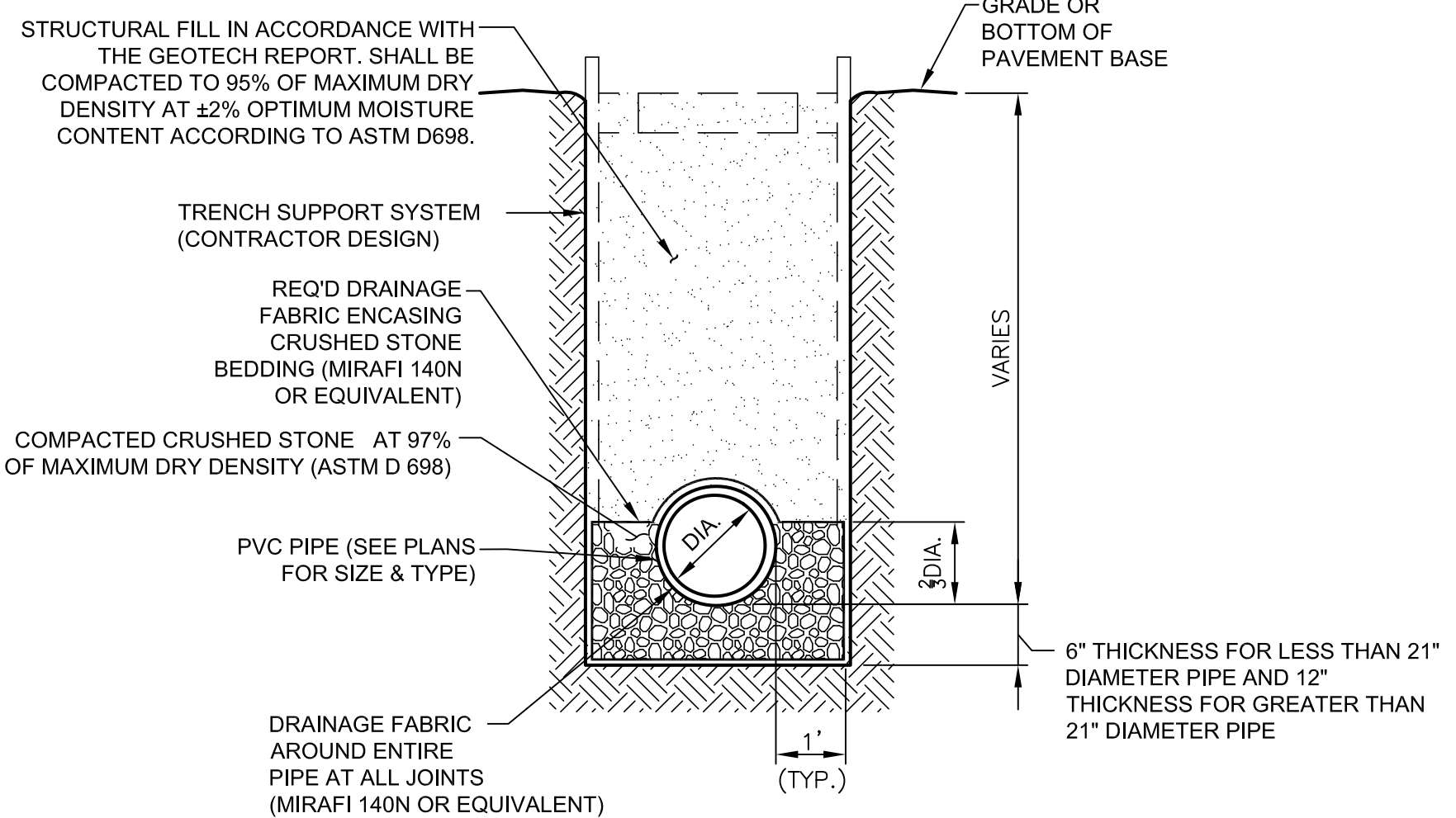
D3 CLEANOUT DETAIL  
SCALE: NOT TO SCALE



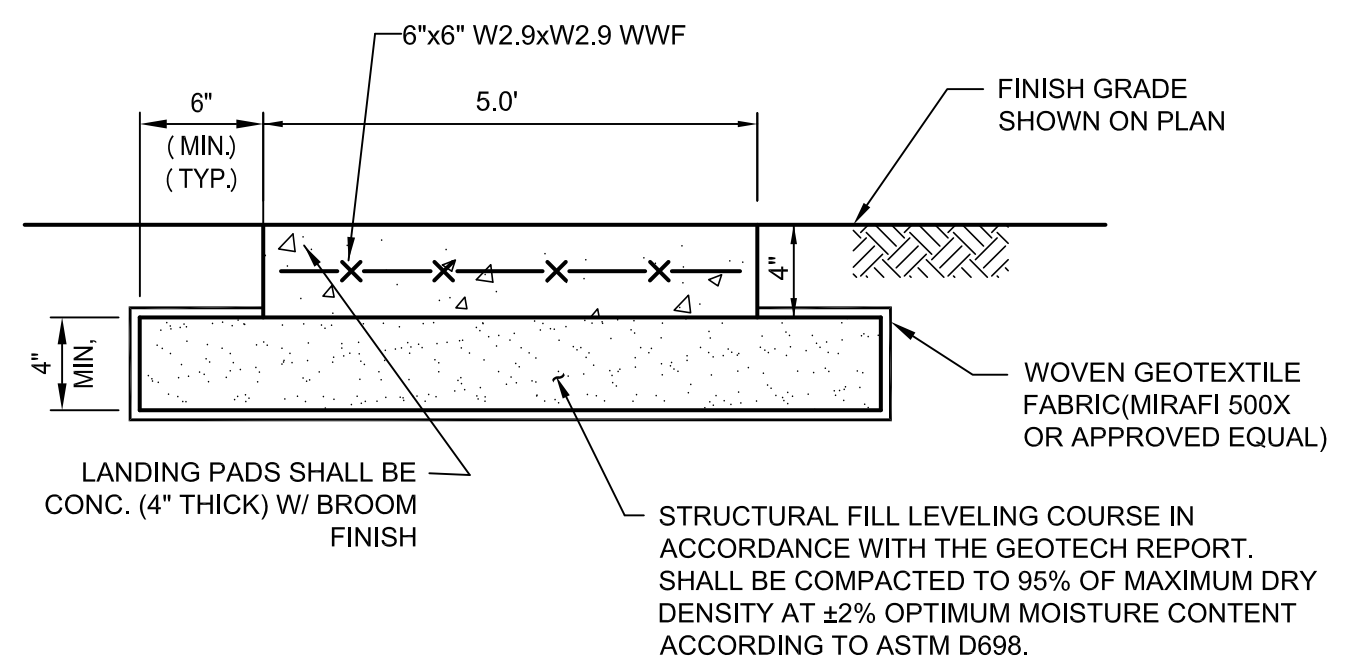
C4 ADA PARKING SIGN DETAIL  
SCALE: NOT TO SCALE



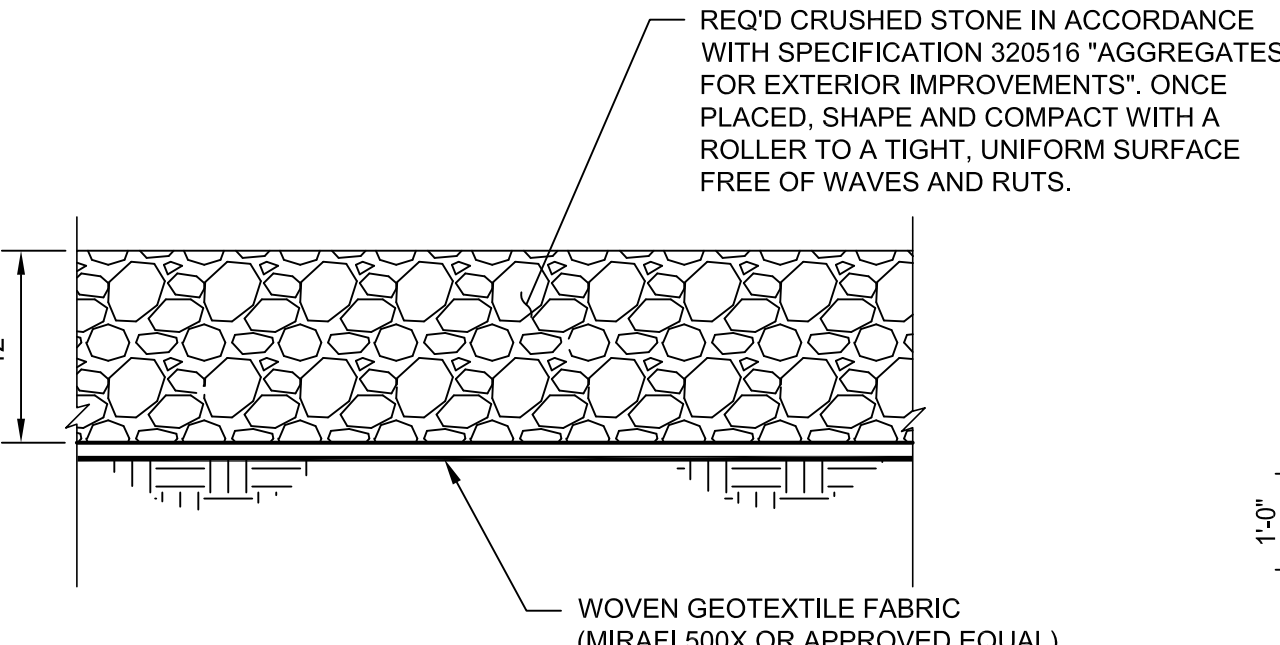
C1 ADA SYMBOL  
SCALE: NOT TO SCALE



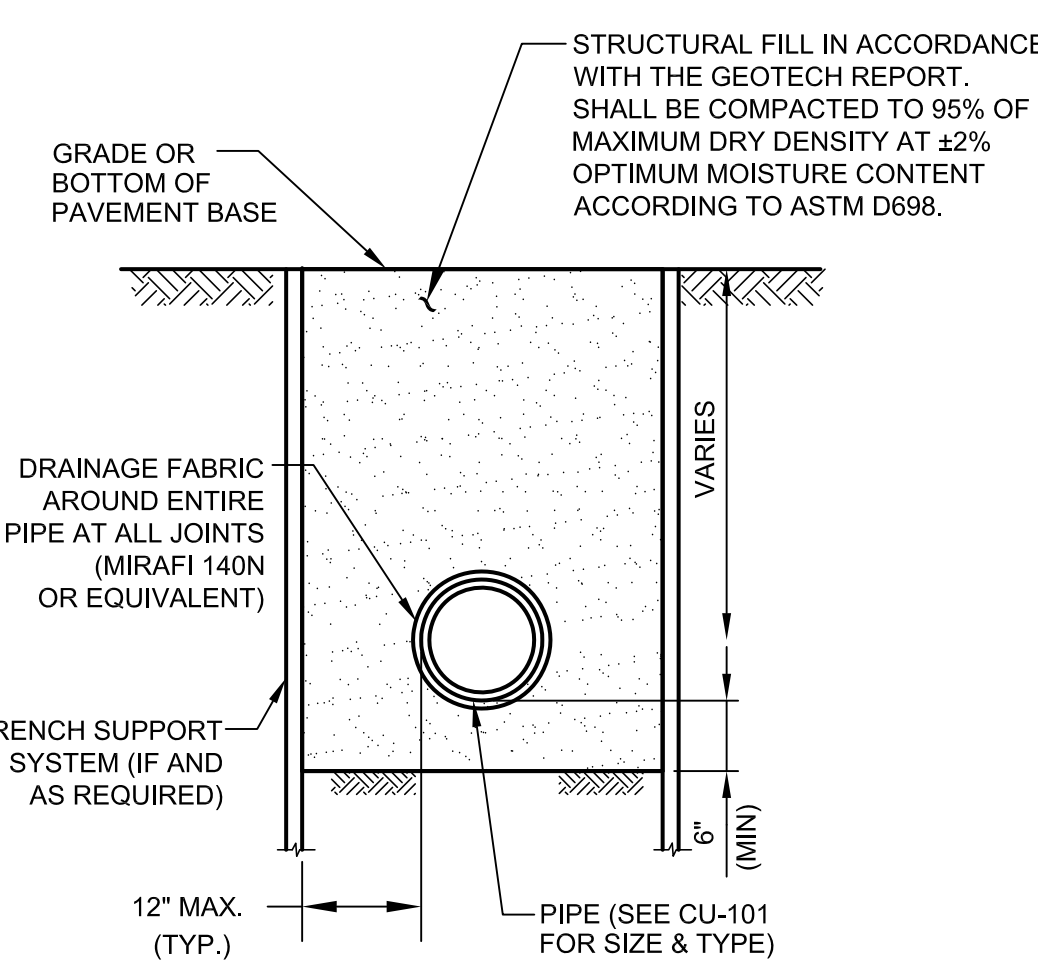
B2 TYPICAL SANITARY SEWER PVC PIPE TRENCH DETAIL  
SCALE: NOT TO SCALE



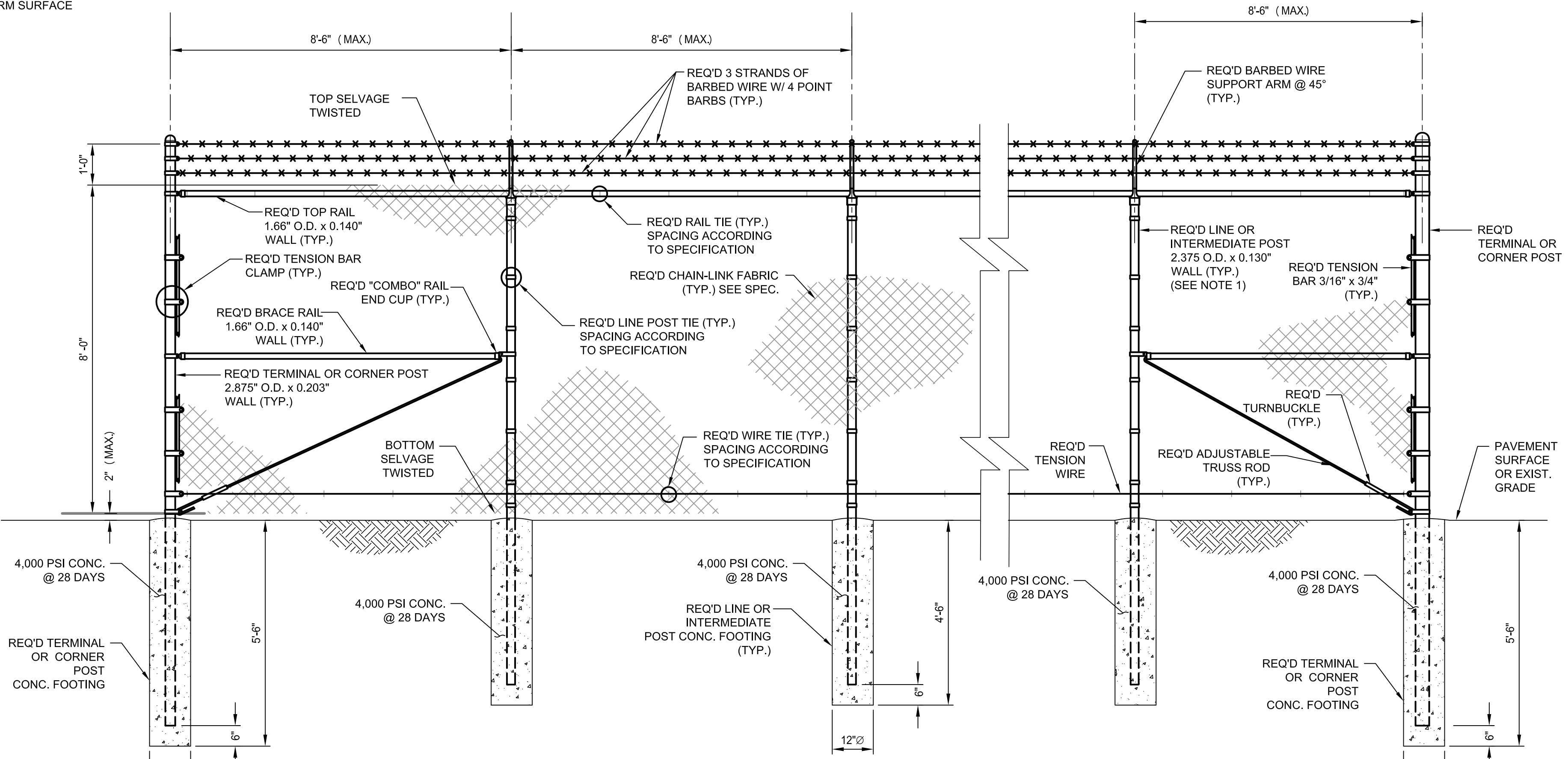
B3 CONCRETE STAIR PAD SECTION  
SCALE: NOT TO SCALE



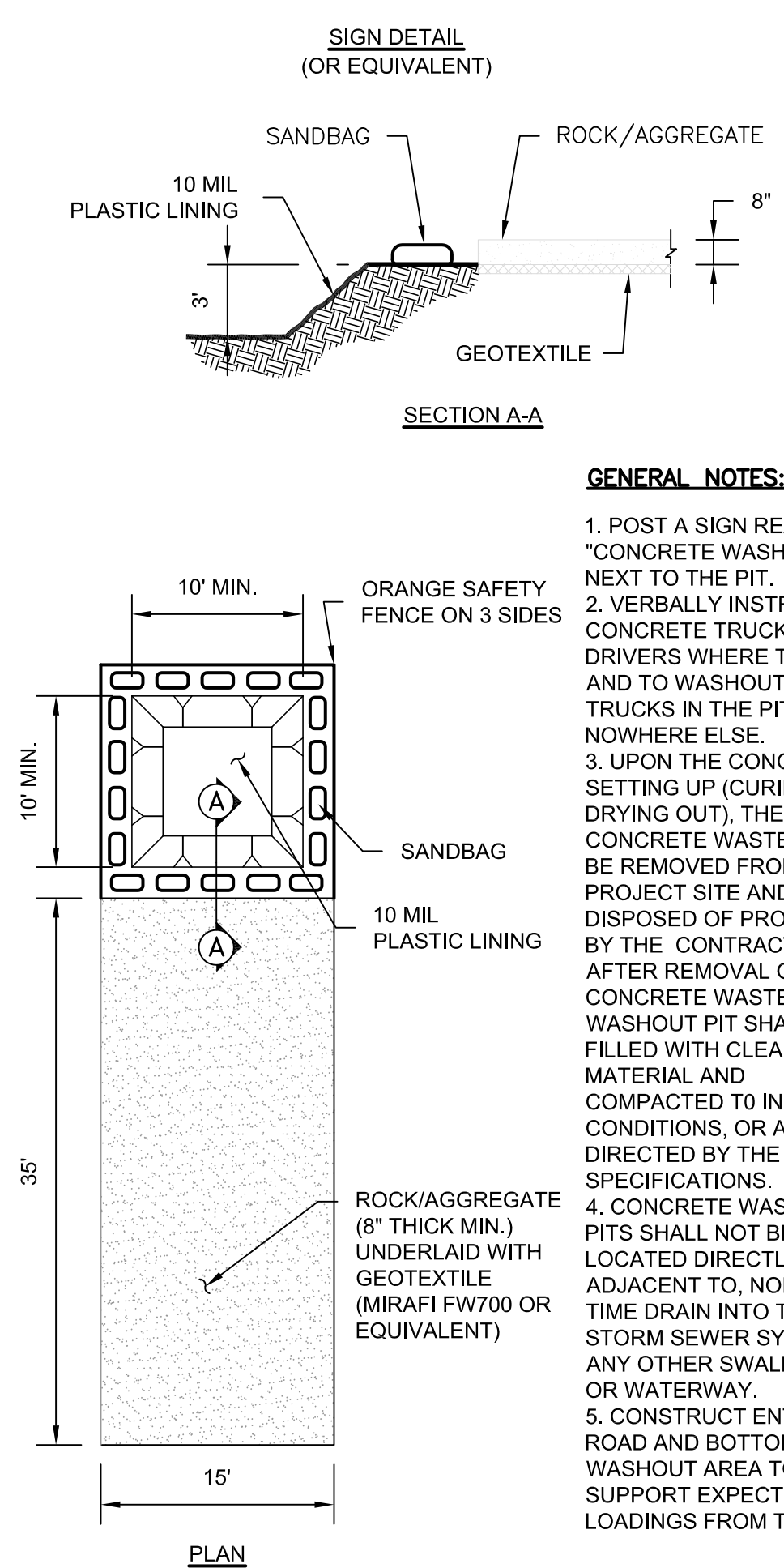
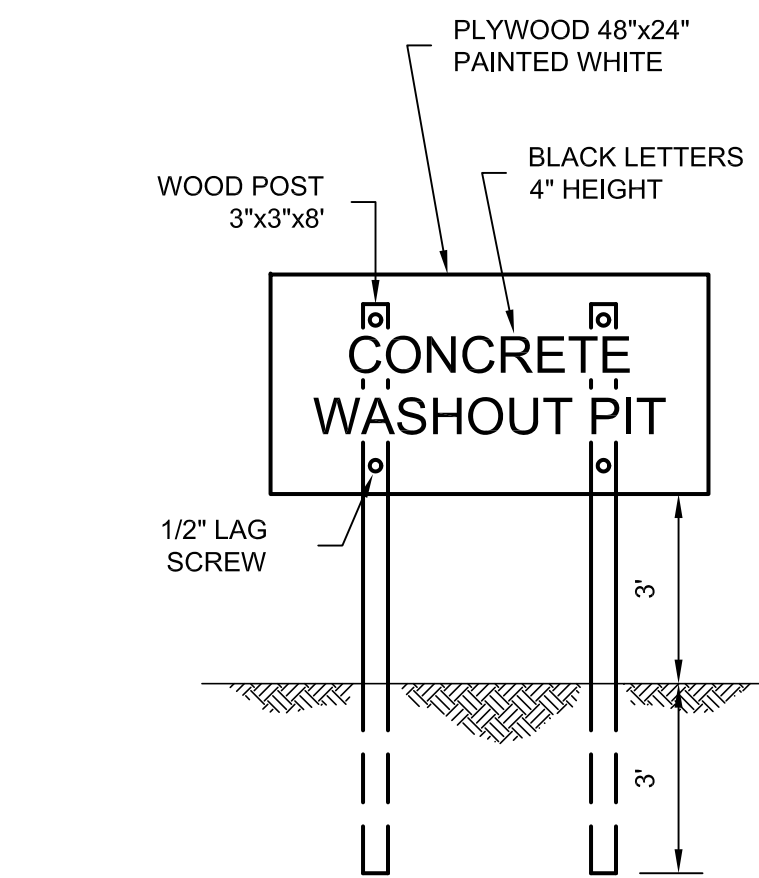
B1 TYPICAL STONE SECTION  
SCALE: NOT TO SCALE



A1 TYPICAL WATER PVC PIPE TRENCH DETAIL  
SCALE: NOT TO SCALE



A2 CHAINLINK FENCE DETAIL  
SCALE: NOT TO SCALE



A4 CONCRETE TRUCK WASHOUT AREA  
SCALE: NOT TO SCALE

**GENERAL NOTES:**

1. POST A SIGN READING "CONCRETE WASHOUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASHOUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASHOUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS

**POND**  
3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092  
Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

**EOR/AOR SEAL**

**CONSULTANT**  
LINFIELD, HUNTER,  
& JUNIUS, INC.  
PROFESSIONAL  
ENGINEERS,  
ARCHITECTS, AND  
SURVEYORS  
3608 18th Street, Suite 200  
Metairie, Louisiana 70002  
© 2024 by Linfield, Hunter & Junius, Inc.

**CLIENT INFORMATION**  
  
U.S. Fish & Wildlife Service

**PROJECT NAME**  
Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

**DRAWING ISSUE**  
LA-27  
Bell City, LA 70630

**DATE**

**DESCRIPTION**

**MARK**

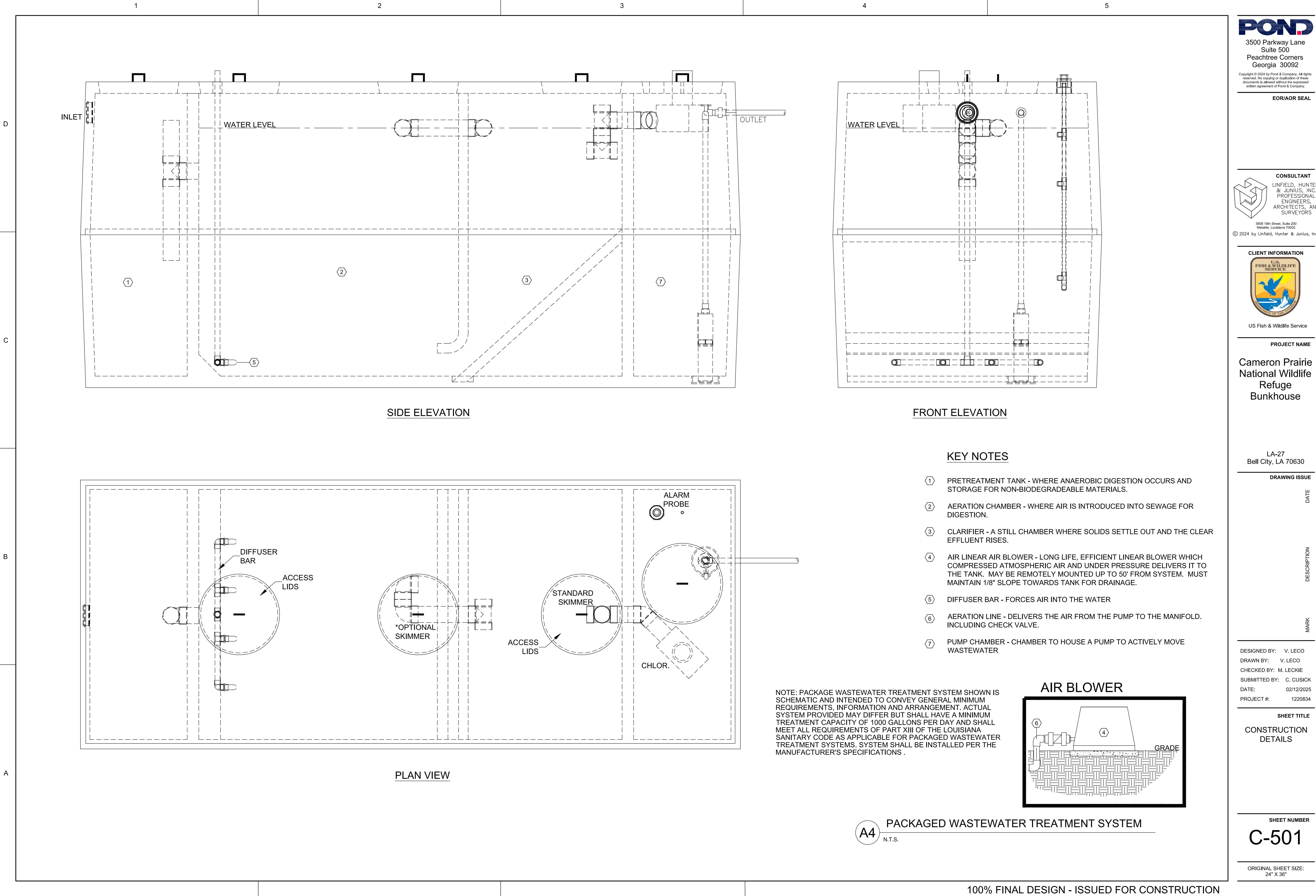
**DESIGNED BY:** V. LECO  
**DRAWN BY:** V. LECO  
**CHECKED BY:** M. LECKIE  
**SUBMITTED BY:** C. CUSICK  
**DATE:** 02/12/2025  
**PROJECT #:** 1220834

**SHEET TITLE**  
CONSTRUCTION  
DETAILS

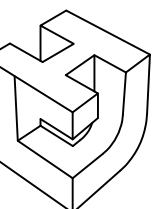
**SHEET NUMBER**  
C-500

ORIGINAL SHEET SIZE:  
24" X 36"





**POND**  
3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092  
Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.  
EOR/AOR SEAL

**CONSULTANT**  
  
LINFIELD, HUNTER,  
& JUNIUS, INC.  
PROFESSIONAL  
ENGINEERS, AND  
SURVEYORS  
3608 18th Street, Suite 200  
Metairie, Louisiana 70002  
© 2024 by Linfield, Hunter & Junius, Inc.

**CLIENT INFORMATION**  
  
U.S. Fish & Wildlife Service

**PROJECT NAME**  
Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE	DATE	DESCRIPTION	MARK

DESIGNED BY: V. LECO  
DRAWN BY: V. LECO  
CHECKED BY: M. LECKIE  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

**SHEET TITLE**  
CONSTRUCTION  
DETAILS

**SHEET NUMBER**  
C-501

ORIGINAL SHEET SIZE:  
24" X 36"

**A4** PACKAGED WASTEWATER TREATMENT SYSTEM  
N.T.S.





**POND**  
3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092  
Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

**EOR/AOR SEAL**

**CONSULTANT**  
LINFIELD, HUNTER,  
& JUNIUS, INC.  
PROFESSIONAL  
ENGINEERS, ARCHITECTS, AND  
SURVEYORS  
3608 18th Street, Suite 200  
Metairie, Louisiana 70002  
© 2024 by Linfield, Hunter & Junius, Inc.

**CLIENT INFORMATION**  
  
U.S. Fish & Wildlife Service

**PROJECT NAME**  
Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

**DRAWING ISSUE**  
LA-27  
Bell City, LA 70630

DATE	DESCRIPTION	MARK

**DESIGNED BY:** V. LECO  
**DRAWN BY:** V. LECO  
**CHECKED BY:** M. LECKIE  
**SUBMITTED BY:** C. CUSICK  
**DATE:** 02/12/2025  
**PROJECT #:** 1220834

**SHEET TITLE**  
CONSTRUCTION  
DETAILS

**SHEET NUMBER**  
**C-502**

ORIGINAL SHEET SIZE:  
24" X 36"

100% FINAL DESIGN - ISSUED FOR CONSTRUCTION



2/10/2025 3:03:09 PM BIM 360://1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_STRC\_v21.rvt

D

C

B

A

GENERAL STRUCTURAL NOTES:

- A. GENERAL

1. THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS BEFORE THEY ARE PROVIDED TO THE OWNER AND STRUCTURAL ENGINEER. THE CONTRACTOR'S REVIEW SHALL BE DOCUMENTED WITHIN THE SUBMITTAL. THE OWNER AND STRUCTURAL ENGINEER RESERVE THE RIGHT TO REJECT SUBMITTALS THAT HAVE NOT BEEN FIRST REVIEWED BY THE CONTRACTOR. THE ACCURACY AND COMPLETENESS OF THE SUBMITTALS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING ALL ERRORS AND OMISSIONS. IN ADDITION, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MEANS, METHODS, AND SEQUENCING OF CONSTRUCTION.

2. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE EXPERIENCED AND QUALIFIED TO PERFORM THE TYPE OF CONSTRUCTION REQUIRED TO COMPLETE THE WORK PRESCRIBED BY THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS WERE PREPARED AS A COMPLETE SET OF PROJECT DRAWINGS AND SPECIFICATIONS. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL INFORMATION PROVIDED IN THE CIVIL, ARCHITECTURAL, INTERIOR, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT/ENGINEER IMMEDIATELY OF ANY CONFLICTS, OMISSIONS, OR DISCREPANCIES. THIS COORDINATION SHALL BE PERFORMED BEFORE THE PROCUREMENT OF MATERIALS AND/OR FABRICATION OF ANY PROJECT COMPONENTS.

3. WHERE SECTION IS SHOWN AND DETAILED, OTHER SECTIONS OF SIMILAR CONDITION SHALL BE DETAILED THE SAME OR OPPOSITE HAND, WHETHER SPECIFICALLY NOTED OR NOT.

4. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE BEGINNING CONSTRUCTION. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.

5. COORDINATE SIZES AND LOCATIONS OF ALL FLOOR AND ROOF PENETRATIONS WITH PLUMBING, MECHANICAL, AND ARCHITECTURAL REQUIREMENTS.

6. ENGINEER'S APPROVAL MUST BE SECURED FOR ALL SUBSTITUTIONS. SUCH APPROVAL MAY ALSO BE WITHHELD AT THE SOLE DISCRETION OF THE ENGINEER.

7. THE STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE FOLLOWING:

a. LOUISIANA STATE UNIFORM CONSTRUCTION CODE (ADOPTED JAN. 1, 2023)

b. INTERNATIONAL BUILDING CODE, 2021 EDITION (IBC 2021).

c. AMERICAN SOCIETY OF CIVIL ENGINEERS, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES," 2016 EDITION (ASCE 7-16).

d. ASCE 24-14 FLOOD RESISTANT DESIGN AND CONSTRUCTION

8. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.

9. DO NOT SCALE DRAWINGS, USE DIMENSIONS.

10. DESIGN LOADS USED IN THE DESIGN OF THE STRUCTURAL SYSTEMS IN THIS PROJECT ARE AS FOLLOWS:

a. RISK CATEGORYII

b. DEAD LOAD:

ROOF (NOT INCLUDING FRAMING SELF WT.)20 psf

c. LIVE LOAD:

ROOF20 psf (REDUCIBLE)

PRIVATE ROOMS40 psf

PUBLIC ROOMS AND CORRIDORS100 psf

ATTIC60 psf

STAIRS100 psf

d. ROOF SNOW LOAD:

GROUND SNOW LOAD,  $p_g$ 0 psf

e. WIND DESIGN CRITERIA:

EXPOSURE CATEGORYD

BASIC WIND SPEED,  $V$ 137 mph (FACTORED, ULTIMATE LOAD)

106 MPH (UNFACTORED, SERVICE LOAD)

INTERNAL PRESSURE COEFFICIENT,  $G C_p$  $\pm 0.18$

WIND-BORNE DEBRIS REGIONNO (> 1mi FROM COAST)

f. SEISMIC DESIGN CRITERIA:

SPECTRAL RESPONSE ACCELERATION:

$S_s$  (SHORT PERIOD (0.2 SECOND))0.100 g

$S_1$  (LONG PERIOD (1.0 SECOND))0.055 g

$S_{DS}$  (SHORT PERIOD (0.2 SECOND))0.088 g

$S_{D1}$  (LONG PERIOD (1.0 SECOND))0.081 g

SITE CLASSCLASS D

SEISMIC DESIGN CATEGORYB

LATERAL FORCE RESISTING SYSTEMLIGHT FRAME WALLS WITH SHEAR PANELS AND STEEL ROD BRACING BETWEEN PILES (STEEL NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE)

IMPORTANCE FACTOR,  $I_p$ 1.0

RESPONSE MODIFICATION COEFFICIENT,  $R$ 3

SEISMIC RESPONSE COEFFICIENT,  $C_s$ 0.029

ANALYSIS PROCEDURE:EQUIVALENT LATERAL FORCE

SEISMIC BASE SHEAR,  $V$ 12.0 K

g. FLOOD DESIGN CRITERIA:

FLOOD ZONEAE

BASE FLOOD ELEVATION (BFE)9ft

ELEVATION OF THE LOWEST FLOOR11ft

h. RAIN LOAD:

RAIN INTENSITY (1 HR, 100 YR)4.81 IN/HR

11. ALL VERTICAL ELEVATIONS ARE BASED ON THE CONTROL ELEVATION FROM SURVEY BY OTHERS.
- B. FOUNDATION

1. FOUNDATIONS FOR THIS STRUCTURE HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL ENGINEERING REPORT, PREPARED BY ARDAMAN & ASSOCIATES DATED APRIL. 19, 2023, AND ENTITLED "REPORT ADDENDUM #1, PROPOSED BUNKHOUSE, EDUCATION BUILDING, AND POLE BARN AT CAMERON PRAIRIE NWR" (COMPANY # 23-84-2806).

2. FOUNDATIONS AND EARTH RETAINING STRUCTURES HAVE BEEN DESIGNED FOR A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2000 psf.

3. REFER TO THE GEOTECHNICAL REPORT AND SPECIFICATION SECTION 31 20 00 FOR REQUIREMENTS FOR REMOVAL OF UNSATISFACTORY MATERIAL UNDER FOOTINGS, SLABS, AND FOUNDATIONS AND FOR THE BACKFILLING, COMPACTION, AND TESTING OF SATISFACTORY MATERIAL TO REPLACE IT. REFER TO GEOTECHNICAL REPORT FOR ALL ADDITIONAL PREPARATION REQUIREMENTS. WHERE THERE IS A CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL APPLY BETWEEN THE SPECIFICATION AND THE GEOTECHNICAL REPORT.

4. PRIOR TO PLACING FOUNDATION CONCRETE, AND AFTER COMPACTION OF SUBGRADE, ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND TESTED BY A QUALIFIED GEOTECHNICAL TECHNICIAN. TESTING SHALL INCLUDE IN PLACE DENSITY TESTING, WHICH WILL REQUIRE ESTABLISHING THE OPTIMUM MOISTURE CONTENT OF THE SUBGRADE. IF THE SUBGRADE HAS LESS THAN THE STATED ALLOWABLE BEARING CAPACITY (SEE NOTE 2 ABOVE) THE WEAK SUBGRADE SHALL BE REMOVED, RECOMPACTED, AND RETESTED UNTIL IT IS SATISFACTORY AT NO ADDITIONAL COST TO THE OWNER. CONCRETE PLACEMENT SHALL NOT PROCEED UNTIL THE SUBGRADE MEETS THE MINIMUM DENSITY REQUIREMENTS OF SPECIFICATION SECTION 31 20 00 AND THE GEOTECHNICAL REPORT, WHICHEVER IS MORE STRINGENT.

5. NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST CONCRETE OR MASONRY WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY CONSTRUCTION BRACING OR BY PERMANENT CONSTRUCTION.

6. WATER SHALL NOT BE ALLOWED TO ACCUMULATE IN EXCAVATIONS.

C. CAST-IN-PLACE CONCRETE

1. CAST-IN-PLACE CONCRETE FOR THIS PROJECT SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND COMMENTARY" ACI 318-19 AND ACI 318R-19.

2. CONCRETE SHALL HAVE LOW PERMEABILITY. REFERENCE PROJECT SPECIFICATION SECTION 03 30 00 "CAST-IN-PLACE CONCRETE."

3. CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

AREA	$f_c$ (28 DAYS)	AIR CONTENT	MAX. W/C RATIO	MAX. SLUMP
FOUNDATIONS, PEDESTALS, AND SLABS-ON-GRADE	4,000 psi	< 3%	0.45	4" $\pm$ 1"

4. ALL EXPOSED CONCRETE EDGES SHALL HAVE 3/4" CHAMFER, WHETHER SPECIFICALLY NOTED OR NOT.

5. TYPICAL SLAB FINISH SHALL BE BROOM FINISH FOR EXTERIOR SLABS AND INTERIOR WET SLABS AND STEEL TROWEL FINISH FOR INTERIOR DRY SLABS.

A. ALL ANCHOR RODS SHALL BE BLACK STEEL. (EXTERIOR ANCHOR BOLTS SHALL BE HOT-DIPPED GALVANIZED.)

6. CONCRETE FORMWORK SHALL COMPLY WITH ACI 347, LATEST EDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FORMWORK.

7. DURING AND IMMEDIATELY AFTER PLACING, CONCRETE SHALL BE THOROUGHLY COMPACTED BY SPADING OR MECHANICAL VIBRATING TO PROVIDE DENSE CONCRETE FREE OF HONEYCOMBING.

8. DIRECTLY AFTER FORMS HAVE BEEN REMOVED, ALL EXPOSED TIE WIRES AND STAPLED ENDS SHALL BE REMOVED FROM CONCRETE SURFACES TO BE EXPOSED. CUT TIES FLUSH WITH FINISHED SURFACES FOR ALL OTHER CONCRETE. RUB SMOOTH OR CUT OFF FINS AND ROUGH PLACES. REMOVE ALL LOOSE CONCRETE AND OTHER IRREGULARITIES. PATCH AND FILL VOIDS WITH BONDING AGENT AS REQUIRED.

9. ROUGHEN ALL CONSTRUCTION JOINTS TO A MINIMUM OF 1/4" AMPLITUDE UNLESS NOTED OTHERWISE.

10. USE WATERPROOFING HYDROPHILIC ADMIXTURE IN CONCRETE FOR SUMP PITS.

11. LIMIT FLYASH CONTENT TO 20% MAX (BY MASS)

12. MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/4 INCH.

D. TIMBER PILES:

1. TIMBER PILES SHALL BE PRESSURE TREATED CONFORMING TO AMERICAN WOOD PRESERVERS ASSOCIATION AWPA C3.

2. PILES SHALL BE CLASS "B" SOUTHERN PINE WITH MINIMUM COMPRESSIVE STRENGTH PARALLEL TO GRAIN OF 1250 psi CONFORMING TO ASTM D25 LATEST EDITION AND NATIONAL FOREST PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATIONS".

3. PILES SHALL BE CLEAN PEELED, ONE-PIECE MINIMUM BUTT 12" AND MINIMUM TIP 7". PILE SHOES SHALL CONFORM TO FEDERAL SPECIFICATIONS RR-S-33L.

4. PILE TIP SHALL BE MINIMUM 40 FEET BELOW GROUND SURFACE.

5. ALLOWABLE COMPRESSION LOAD SHALL BE 22 KIPS; ALLOWABLE TENSION LOAD SHALL BE 22 KIPS; ALLOWABLE LATERAL LOAD SHALL BE 5 KIPS.

6. PILES SHALL BE INSTALLED PER THE REFERENCED SOILS REPORT.

100% ISSUED FOR CONSTRUCTION

3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION

US Fish & Wildlife Services

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge -  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: D. SKULLY  
DRAWN BY: D.SKULLY  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C.CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

GENERAL  
STRUCTURAL  
NOTES

SHEET NUMBER

S-001

ORIGINAL SHEET SIZE:  
24" X 36"



2/10/2025 3:03:09 PM BIM 360://1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_STRC\_v21.rvt

D

C

B

A

GENERAL STRUCTURAL NOTES (CONT.):

E. CONCRETE REINFORCEMENT:

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615 SUPPLEMENT SI, GRADE 60, OF DOMESTIC MANUFACTURER.
2. REINFORCEMENT SHALL BE FABRICATED TO SHAPES AND DIMENSIONS SHOWN AND SHALL CONFORM TO THE REQUIREMENTS OF CRSI AND ACI 318. REINFORCEMENT SHALL BE COLD BENT UNLESS OTHERWISE AUTHORIZED. BENDING MAY BE ACCOMPLISHED IN THE FIELD OR AT THE MILL. BARS SHALL NOT BE FIELD BENT WITHOUT THE APPROVAL OF THE ENGINEER.
3. REINFORCEMENT SHALL BE FREE FROM LOOSE RUST AND SCALE, DIRT, OIL, OR OTHER DELETERIOUS COATING THAT COULD REDUCE BOND WITH THE CONCRETE.
4. NO SPLICES OF REINFORCEMENT SHALL BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED. MAKE BARS CONTINUOUS AROUND CORNERS WITH CORNER BARS. WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS SHALL BE CLASS "B" TENSION LAPS.
5. TENSION AND COMPRESSION REINFORCEMENT SPLICE LENGTHS IN CONCRETE SHALL BE DETERMINED AS FOLLOWS:

BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
TOP BAR SPLICE SIZE	28"	37"	47"	56"	81"	93"	105"	118"	131"
BOTTOM BAR SPLICE SIZE	22"	29"	36"	43"	63"	72"	81"	91"	101"

a. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.

b. THE TABLE ABOVE IS BASED ON A CONCRETE COVER AT LEAST EQUAL TO THE BAR DIAMETER AND A CENTER TO CENTER BAR SPACING AT LEAST EQUAL TO 3 TIMES THE BAR DIAMETER. MULTIPLY THE ABOVE LENGTHS BY 1.5 WHERE THESE CONDITIONS DO NOT EXIST.
6. WHERE HOOKS ARE SHOWN, PROVIDE STANDARD 90 DEGREE HOOKS IN ACCORDANCE WITH CRSI AND ACI 318, UNLESS NOTED OTHERWISE.
7. WHERE REQUIRED, PROVIDE DOWELS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING FROM FOUNDATION. DOWELS SHALL HAVE STANDARD 90 DEGREE HOOKS.
8. MINIMUM CONCRETE REINFORCING COVER REQUIREMENTS:

EXPOSURE	CONST. TYPE	BAR SIZE	MINIMUM COVER
CONCRETE CAST AGAINST EARTH:	ALL	ALL	3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:	WALLS, SLABS	ALL	2"
FORMED CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	WALLS, SLABS	#11 BAR AND SMALLER	2"

9. ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES SHALL BE PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.
10. DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL-2004," PUBLICATION SP-66, ACI 318, AND ACI 315, OR LATEST EDITIONS.
11. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AT POSITIONS SHOWN ON PLANS.
12. WELDING OF REINFORCEMENT IS NOT PERMITTED.

F. WOOD TRUSSES

1. DESIGN, FABRICATE AND INSTALL METAL PLATE CONNECTED WOOD TRUSSES ACCORDING TO THE TRUSS PLATE INSTITUTE STANDARD TPI 1-2014 AND THE NATIONAL DESIGN SPECIFICATION FOR WOOD STRUCTURES, 2018 EDITION WITH SUPPLEMENT.
2. TRUSS DESIGN AND FABRICATION SHALL BE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER.
3. ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING SUPERIMPOSED LOADS. TRUSS LOADS SHALL BE IN COMBINATION PER THE REFERENCED BUILDING CODE IN NOTE A.4.

TOP CHORD	DEAD=15 PSF	LIVE=20 PSF
BOTTOM CHORD	DEAD=10 PSF	LIVE=20 PSF (LIVE LOAD IN ATTIC = 60 PSF)

SEE A1/S-151 AND WIND PRESSURE DIAGRAM ON S-004 FOR ADDITIONAL LOADS REQUIRED FOR DESIGN. THE TRUSSES AND THEIR CONNECTIONS ABOVE SHEAR WALL LOCATIONS ARE REQUIRED TO BE DESIGNED TO TRANSFER LATERAL FORCES FROM THE ROOF DIAPHRAGM INTO THE SHEAR WALLS. SEE DRAWING FOR LOAD TRANSFER REQUIRMENTS.

4. TRUSS MANUFACTURER SHALL PROVIDE PLACEMENT PLANS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT SHOWING TRUSS QUANTITY AND TYPE, DEPTHS, SPANS, CONNECTION DETAILS, SPECIAL LOADING CONDITIONS, PERMANENT AND TEMPORARY BRACING, AND BRIDGING .
5. TRUSS MANUFACTURER SHALL ALSO PROVIDE DESIGN CALCULATIONS SEALED BY PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT SHOWING DESIGN VALUES, CHORD AND WEB SIZES AND GRADES. METAL PLATE SIZES WITH JOINT LOCATION, AXIAL FORCE, TRUSS CONFIGURATION AND JOINT DEFLECTION.
6. MAXIMUM TRUSS SPACING SHALL BE 2'-0" O.C
7. PROVIDE BOTTOM CHORD BRACING AS SHOWN IN DETAIL A1/S-311
8. PROVIDE 2x6 BLOCKING CONTINUOUS EACH SIDE AT RIDGE, AT PERIMETER, AND AS REQUIRED PER DRAWINGS
9. BRACE ROOF TRUSSES TO PROVIDE STABILITY DURING AND AFTER ERECTION

G. TIMBER FRAMING

1. ALL TIMBER SHALL COMPLY WITH THE NATIONAL DESIGN SPECIFICATION FOR WOOD STRUCTURES, 2018 EDITION WITH SUPPLEMENT
3. ALL TIMBER SHALL BE CONNECTED USING PRE-MANUFACTURED ATTACHMENTS TO WALLS AND ROOF.
4. TIMBER SHALL BE SOUTHERN YELLOW PINE NO. 2 GRADE OR BETTER. REFERENCE SPECIFICATION SECTION 061000 FOR ADDITIONAL REQUIREMENTS
5. TYPICAL EXTERIOR WALL STUDS SHALL BE 2x6 AT 12" O.C ATTACHED TO TOP AND BOTTOM PLATES WITH SIMPSON A34 (OR EQUAL) GALVANIZED PLATE ANGLES. TYPICAL INTERIOR LOAD BEARING WALLS SHALL BE 2x4 AT 16" O.C. ATTACHED TO TOP AND BOTTOM PLATES WITH SIMPSON A34 (OR EQUAL) GALVANIZED PLATE ANGLES.
6. ALL LOAD BEARING WALLS SHALL BE BLOCKED AT MID-HEIGHT UNLESS SHOWN OTHERWISE.
7. BRACE STUD WALLS UNTIL ALL WOOD DECKING, ROOF TRUSSES, AND SHEAR WALLS ARE IN PLACE.
8. INSTALL BEAMS WITH CROWN UP.
9. USE WATER-BORNE PRESSURE TREATED, WOLMANIZED WOOD FOR ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCETE.
10. ALL HARDWARE AND FASTENERS EXPOSED TO PRESSURE TREATED WOOD OR THE ENVIRONMENT SHALL BE G185 COATED, HOT-DIP GALVANIZED PER ASTM A153, OR STAINLESS STEEL.
11. REFER TO IBC 2021 TABLE 2304.10.2 FOR MINIMUM FASTENING REQUIREMENTS.
- H. LAMINATED VENEER LUMBER (LVL)
1. MATERIALS, MANUFACTURER AND QUALITY SHALL COMPLY WITH ICC EVALUATION SERVICE REPORT NO. ESR-1387.
2. PRODUCTS SHALL BE PROVEN BY TESTING AND EVALUATION IN ACCORDANCE WITH THE PROVISIONS OF ASTM D-5456.
3. SHOP DRAWINGS AND DETAILS SHALL BE FURNISHED FOR REVIEW AND APPROVAL BY THE ARCHITECT/ENGINEER BEFORE FABRICATION WORK IS COMMENCED.
4. UNLESS NOTED, THE FOLLOWING MINIMUM PROPERTIES AS PER 2.0E REDLAM LVL (AS MANUFACTURED BY REDBUILT) SHALL BE:

MODULUS OF ELASTICITY: 2000 KSI

MINIMUM MODULUS OF ELASTICITY: 1000 KSI

FLEXURAL STRESS: 2900 PSI

TENSION STRESS: 1660 PSI

COMPRESSION PERPENDICULAR TO GRAIN: 750 PSI

COMPRESSION PARALLEL TO GRAIN: 2635 PSI

HORIZONTAL SHEAR PARALLEL TO GRAIN: 285 PSI

EQUIVALENT SPECIFIC GRAVITY 0.50
5. FOR DRY USAGE CONDITIONS MOISTURE CONTENT SHALL BE 16% OR LESS U.N.O..
6. WET USAGE CONTENT SHALL BE USED OUTSIDE EXTERIOR WALLS.
7. TOLERANCES: FINISHED LENGTH SHALL BE WITHIN ±1/4". FINISHED DEPTH AND WIDTH SHALL BE WITHIN ±1/16".
8. THE PRODUCTS DELIVERED SHALL BE FREE FROM MANUFACTURING ERRORS OR DEFECTS IN WORKMANSHIP OR MATERIAL.
9. THE PRODUCTS SHALL BE WARRANTED TO PERFORM AS DESIGNED FOR THE NORMAL AND EXPECTED LIFE OF THIS STRUCTURE.
10. LAMINATED VENEER LUMBER SHALL CONFORM TO AND BE ACCOMPANIED BY APPROVED EVIDENCE OF COMPLIANCE WITH CHAPTER 23 OF THE 2021 IBC.
11. USE WATER-BORNE, PRESSURE TREATED, WOLMANIZED WOOD FOR ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE.

I. PLYWOOD:

1. ALL SHEATHING SHALL BEAR THE TRADEMARK STAMP OF THE AMERICAN PLYWOOD ASSOCIATION (APA). UNLESS NOTED OTHERWISE, ALL PANELS SHALL BE ORIENTED PERPENDICULAR TO SUPPORTS, AND NAILED WITH 10d COMMON NAILS AT 6" O.C. AT EDGES, 12" O.C. AT INTERMEDIATE SUPPORTS. SHEATHING THICKNESS REQUIRED:

WALL SHEATHING: 1/2" STRUCTURAL 1 RATED, PLYWOOD

ROOF SHEATHING: 5/8" EXPOSURE 1 RATED PLYWOOD UNBLOCKED, 32/16 SPAN RATING

FLOOR SHEATHING: 3/4" THICK T&G EXPOSURE 1 RATED, WOLMANIZED PLYWOOD WITH A 48/24 SPAN RATING BLOCKED.
2. LONG SIDE OF PLYWOOD PANEL SHALL BE PERPENDICULAR TO THE SUPPORT WITH THE END JOINT OF THE PANEL ALIGNED WITH THE CENTER OF THE TWO ADJACENT PANELS. (NO CONTINUOUS PANEL JOINTS). PANELS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS.
3. SUITABLE EDGE SUPPORT SHALL BE PROVIDED AS RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION BY USE OF PANEL CLIPS OR LUMBER BLOCKING BETWEEN JOISTS. PANEL END JOINTS SHALL OCCUR OVER FRAMING. PLYWOOD PANELS SHALL BE BLOCKED WITH 2X6 (MIN. U.N.O.) AT PERIMETER OF ROOF AND AT DIRECTIONAL CHANGES.

J. SPECIAL INSPECTIONS:

1. QUALIFIED SPECIAL INSPECTORS SHALL BE RETAINED TO PERFORM INSPECTIONS REQUIRED BY THE BUILDING CODE. SEE SHEETS S-003 FOR THE SPECIAL INSPECTIONS SCHEDULES.
2. ANY FIELD OBSERVATIONS OR OTHER WORK PROGRESS REVIEW PERFORMED BY THE STRUCTURAL ENGINEER SHALL NOT BE CONSTRUED AS A SPECIAL INSPECTION.

K. DEFERRED SUBMITTALS/DELEGATED DESIGNS:

1. IN ACCORDANCE WITH THE IBC, THE FOLLOWING IS A LIST OF DEFERRED SUBMITTALS / DELEGATED DESIGNS. THESE ITEMS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER (PE) IN THE PROJECT'S STATE. DOCUMENTS SHALL CONTAIN DESIGN DRAWINGS AND CALCULATIONS THAT ARE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER. DOCUMENTS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION, FABRICATION, AND/OR INSTALLATION.

A. GUARDRAILS, TOEBOARD, AND ASSOCIATED CONNECTIONS

B. HANDRAILS

C. STEEL STAIRS, STRINGERS, TREADS, AND ASSOCIATED CONNECTIONS

D. AWNINGS AND ASSOCIATED CONNECTIONS

E. WOOD ROOF TRUSSES

F. ANY ITEM NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.

L. STRUCTURAL STEEL:

1. STRUCTURAL STEEL FOR THIS PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE FIFTEENTH EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "STEEL CONSTRUCTION MANUAL."
2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:

COMPONENT TYPE	STANDARD	YIELD STRENGTH
a. STRUCTURAL STEEL WIDE FLANGE SHAPES:	ASTM A992	Fy = 50 ksi
b. OTHER STRUCTURAL STEEL SHAPES, PLATES, AND BARS:	ASTM A36	Fy = 36 ksi
c. HOLLOW STRUCTURAL SECTIONS (HSS):	ASTM A500 (GRADE B)	Fy = 50 ksi
d. STEEL PIPE:	ASTM A53 (GRADE B)	Fy = 35 ksi
e. ANCHOR RODS:	ASTM F1554	Fy = 36 ksi

3. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STEEL," LATEST EDITION. WELD ELECTRODES SHALL BE E70XX. PROVIDE 1/4" CONTINUOUS FILLET WELDS UNLESS NOTED OTHERWISE.
4. ALL EXTERIOR STRUCTURAL STEEL TO BE HOT-DIPPED GALVANIZED (MIN G60), U.N.O.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Services

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge -  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: D. SKULLY  
DRAWN BY: D.SKULLY  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C.CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

GENERAL  
STRUCTURAL  
NOTES

SHEET NUMBER

S-002

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



2/10/2025 3:03:10 PM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_STRC\_v21.rvt

D

SCHEDULE OF SPECIAL INSPECTIONS

1704.2.5 INSPECTION OF FABRICATORS		
MATERIAL / ACTIVITY	SERVICE	EXTENT
VERIFY FABRICATION/QUALITY CONTROL PROCEDURES	IN-PLANT REVIEW	PERIODIC

1705.5 WOOD CONSTRUCTION		
MATERIAL / ACTIVITY	SERVICE	EXTENT
1. FOR PREFABRICATED WOOD STRUCTURAL ELEMENTS, INSPECTION OF THE FABRICATION PROCESS AND ASSEMBLIES IN ACCORDANCE WITH SECTION 1704.2.5	IN PLANT REVIEW	PERIODIC
2. FOR HIGH-LOAD DIAPHRAGMS, VERIFY GRADE AND THICKNESS OF STRUCTURAL PANEL SHEATHING AGREE WITH APPROVED BUILDING PLANS	FIELD INSPECTION	PERIODIC
3. FOR HIGH-LOAD DIAPHRAGMS, VERIFY NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, NAIL OR STAPLE DIAMETER AND LENGTH, NUMBER OF FASTENER LINES, AND THAT SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREE WITH APPROVED BUILDING PLANS	FIELD INSPECTION	PERIODIC

C

1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS		
MATERIAL / ACTIVITY	SERVICE	EXTENT
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	FIELD INSPECTION	PERIODIC
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	FIELD INSPECTION	PERIODIC
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	FIELD INSPECTION	PERIODIC
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	FIELD INSPECTION	CONTINUOUS
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	FIELD INSPECTION	PERIODIC

B

1705.7 REQUIRED SPECIAL INSPECTIONS AND TESTS OF DRIVEN DEEP FOUNDATION ELEMENTS		
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS.	X	-
2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	X	-
3. INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	X	-
5. FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	-	X

A

1705.3 CONCRETE CONSTRUCTION


MATERIAL / ACTIVITY	SERVICE	EXTENT
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRE-STRESSING TENDONS, AND PLACEMENT	SHOP AND FIELD INSPECTION	PERIODIC
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2 ITEM 2b	SHOP AND FIELD INSPECTION	
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED	SHOP AND FIELD INSPECTION	PERIODIC
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	SHOP AND FIELD INSPECTION	PERIODIC
5. VERIFY USE OF REQUIRED DESIGN MIX	SHOP AND FIELD INSPECTION	PERIODIC
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	SHOP AND FIELD INSPECTION	CONTINUOUS
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	SHOP AND FIELD INSPECTION	CONTINUOUS
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	SHOP AND FIELD INSPECTION	PERIODIC
9. INSPECTION OF PRE-STRESSED CONCRETE	SHOP AND FIELD INSPECTION	
a. APPLICATION OF PRE-STRESSING FORCE		CONTINUOUS
b. GROUTING OF BONDED PRE-STRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM		CONTINUOUS
10. ERECTION OF PRECAST CONCRETE MEMBERS		PERIODIC
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	REVIEW FIELD TESTING AND LABORATORY REPORTS	PERIODIC
12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS FOR THE CONCRETE MEMBER TO BE FORMED	FIELD INSPECTION	PERIODIC

- NOTES:
- a. WHERE APPLICABLE, SEE ALSO SECTION 1705.11 SPECIAL INSTRUCTIONS FOR SEISMIC RESISTANCE.
- b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 355.2 OR OTHER QUALIFICATIONS PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

STRUCTURAL ABBREVIATION KEY

@	AT	lb	POUNDS
A.F.F.	ABOVE FINISHED FLOOR	L.L.	LIVE LOAD
ARCH'L	ARCHITECTURAL	LLH	LONG LEG HORIZONTAL
B/	BOTTOM OF	LLV	LONG LEG VERTICAL
BLDG	BUILDING	LSV	LONG SIDE VERTICAL
BM	BEAM	L.W.	LIGHT WEIGHT
BTM.	BOTTOM	MAX.	MAXIMUM
BTW.	BETWEEN	MECH.	MECHANICAL
C.L.	CENTERLINE	MFR.	MANUFACTURER
CIP	CAST-IN-PLACE	MIN.	MINIMUM
CJ	CONTROL JOINT	mph	MILES PER HOUR
C.J.P.	COMPLETE JOINT PENETRATING WELD	N/A	NOT APPLICABLE
CLR.	CLEAR	N.I.C.	NOT IN CONTRACT
CMU	CONCRETE MASONRY UNIT	N.S.	NEAR SIDE
COL.	COLUMN	N.T.S.	NOT TO SCALE
CONC.	CONCRETE	N.W.	NORMAL WEIGHT
CONST.	CONSTRUCTION	O/O	OUT TO OUT
CONT.	CONTINUOUS	O.C.	ON CENTER
DEG.	DEGREE	O.H.	OPPOSITE HAND
DIA.	DIAMETER	OPN'G	OPENING
D.L.	DEAD LOAD	OPP.	OPPOSITE
DWG.	DRAWING	PEMB	PRE-ENGINEERED METAL BUILDING SYSTEM
DWL.	DOWEL	PL.	PLATE
E.E.	EACH END	PJF	PRE-MOLDED JOINT FILLER
E.F.	EACH FACE	P.J.P.	PARTIAL JOINT PENETRATING WELD
ELEC.	ELECTRICAL	PROJ.	PROJECTION
ELEV.	ELEVATION	PT	PRESSURE TREATED
E.O.R.	ENGINEER OF RECORD	PTB	POST-TENSION BEAM
E.O.S.	EDGE OF SLAB	psf	POUNDS PER SQUARE FOOT
EQ.	EQUAL	psi	POUNDS PER SQUARE INCH
E.S.	EACH SIDE	RCB	REINFORCED CONCRETE BEAM
E.W.	EACH WAY	REINF.	REINFORCEMENT
EXIST.	EXISTING	REQ'D	REQUIRED
EXP.	EXPANSION	SDSTSMS	SELF-DRILLING, SELF-TAPPING SHEET METAL SCREWS
EXT.	EXTERIOR	S.F.	SQUARE FOOT
FD	FLOOR DRAIN	SIM.	SIMILAR
FDN.	FOUNDATION	SLV.	SHORT LEG VERTICAL
F.F.	FINISH FLOOR	SQ.	SQUARE
F.P.	FLOOR PENETRATION	STD.	STANDARD
F.S.	FAR SIDE	STL.	STEEL
FT.	FEET	S.W.	SELF-WEIGHT
FTG	FOOTING	T&B	TOP AND BOTTOM
GEN/GEN'L	GENERAL	T/	TOP OF
GT	GIRDER TRUSS	THRD'D	THREADED
HK.	HOOK	TOS	TOP OF STEEL
HOR.	HORIZONTAL	TYP.	TYPICAL
H.S.A.	HEADED STUD ANCHOR	U.N.O.	UNLESS NOTED OTHERWISE
HSS	HOLLOW STRUCTURAL SECTION	VERT.	VERTICAL
HGT.	HEIGHT	VIF	VERIFY IN FIELD
HT	HIP TRUSS	w/	WITH
HVY.	HEAVY	W/C	WATER TO CEMENT
IN.	INCH	WF	WIDE FLANGE
INT.	INTERIOR	W.L.	WIND LOAD
K	KIPS	W.P.	WORKING POINT
ksi	1,000 POUNDS PER SQUARE INCH	WT.	WEIGHT
		WWR	WELDED WIRE REINFORCEMENT

NOTE: NOT ALL ABBREVIATIONS WILL BE USED.




3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Services

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge -  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: D. SKULLY  
DRAWN BY: D.SKULLY  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C.CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

SCHEDULE OF  
SPECIAL  
INSPECTIONS &  
ABBREVIATION  
KEY

SHEET NUMBER

S-003

ORIGINAL SHEET SIZE:  
24" X 36"



WIND LOADING NOTES:

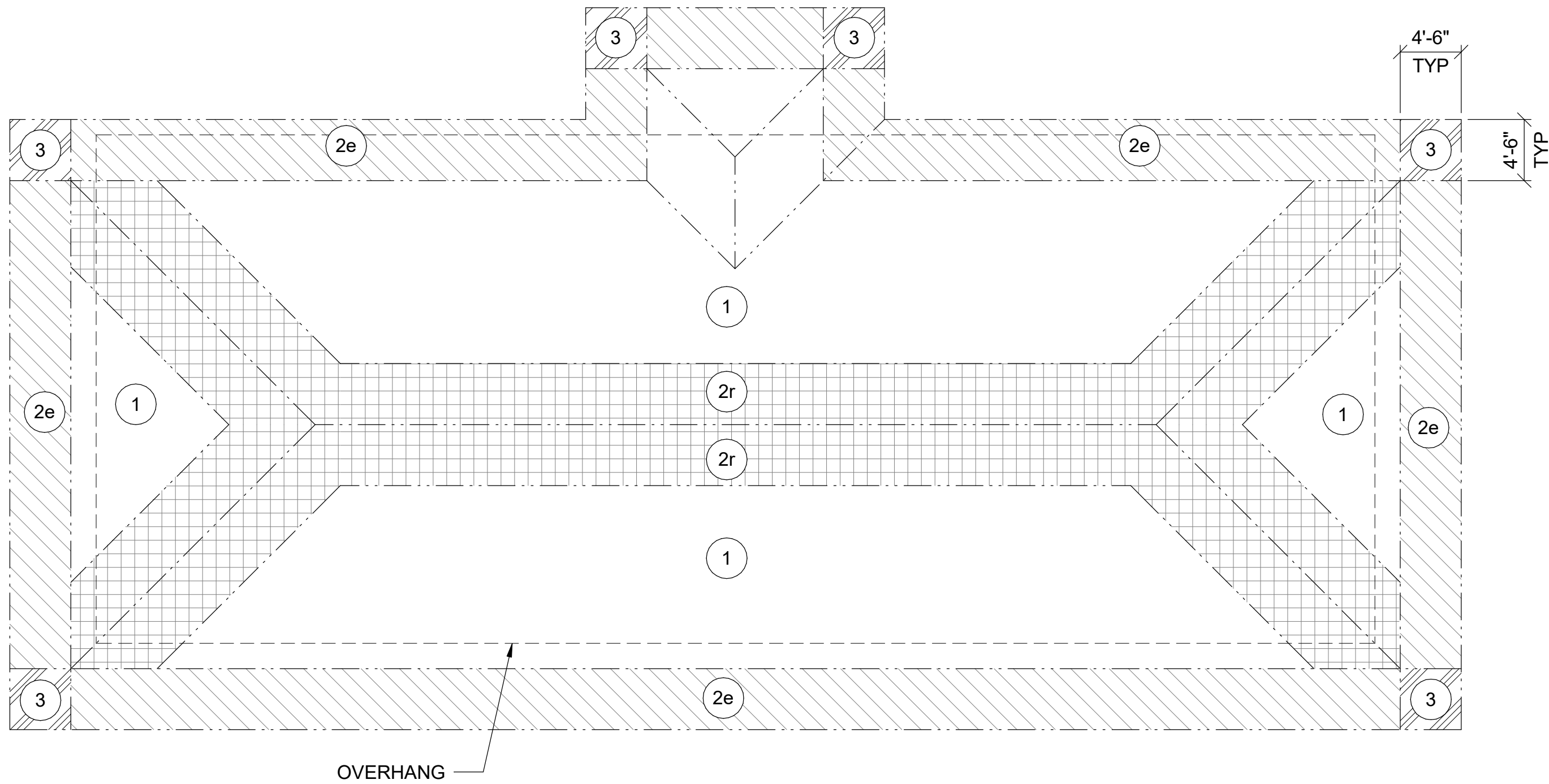
- 1. POSITIVE VALUES ACT TOWARD THE ROOF SURFACE (COMPRESSION) AND NEGATIVE VALUES ACT AWAY FROM THE ROOF SURFACE (UPLIFT).
- 2. FOR ROOF TRUSS DESIGN, NET UPLIFT = SCHEDULED VALUE + 6 psf.
- 3. LINEAR INTERPOLATION PERMITTED BETWEEN VALUES.
- 4. VALUES INDICATED IN TABLES ARE FACTORED LOADS IN ACCORDANCE WITH ASCE 7-16.

ROOF COMPONENTS AND CLADDING WIND PRESSURE SCHEDULE

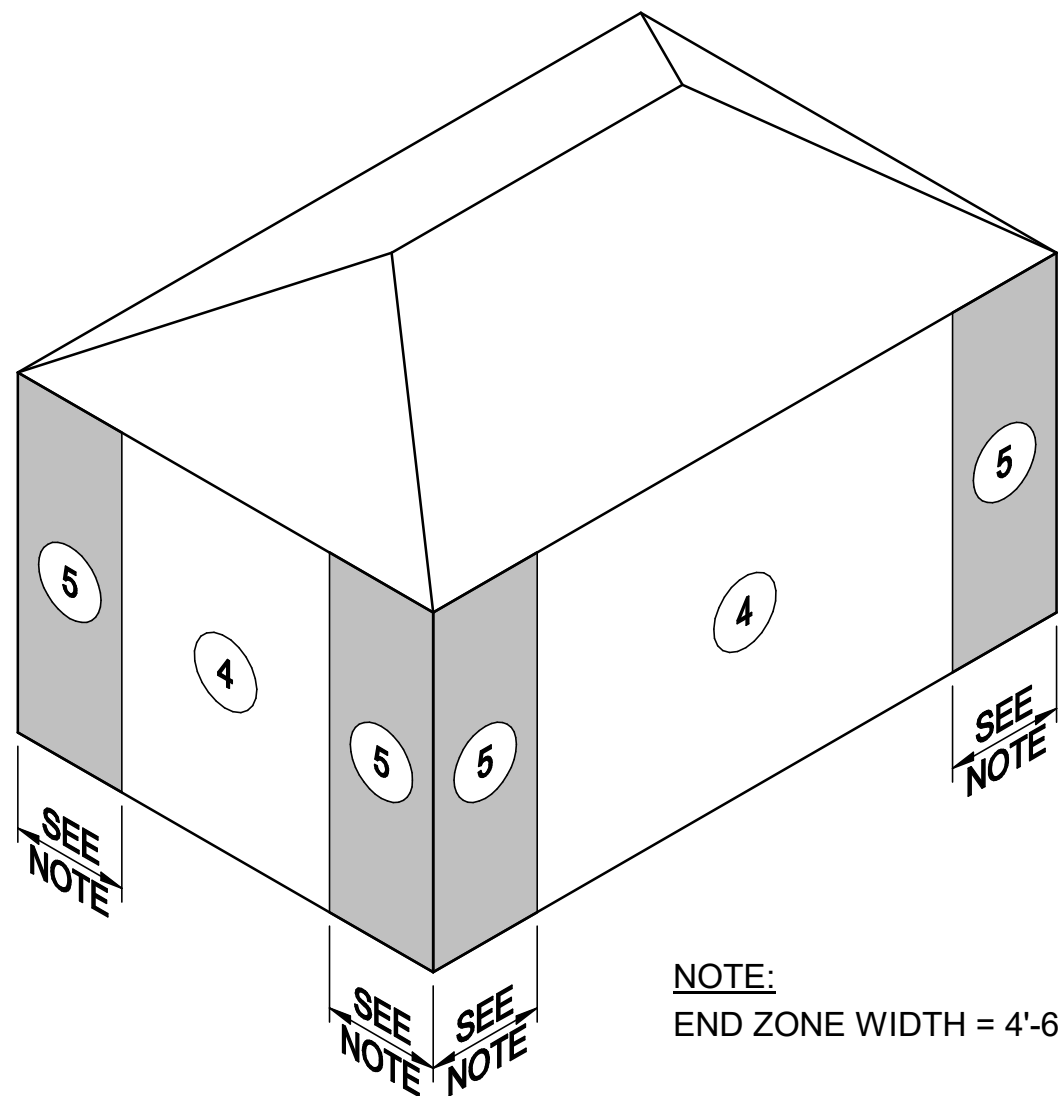
ZONE	EFFECTIVE WIND AREA			
	AREA ≤ 10 S.F.	AREA = 25 S.F.	AREA = 50 S.F.	100 S.F. ≤ AREA
1	-64.3 / 38.2	-62.5 / 31.3	-56.9 / 26.1	-51.2 / 20.8
2e	-86.0 / 38.2	-76.7 / 31.3	-69.7 / 26.1	-62.6 / 20.8
2r	-112.1 / 38.2	-97.4 / 31.3	-86.4 / 26.1	-75.3 / 20.8
3	-86.0 / 38.2	-76.7 / 31.3	-69.7 / 26.1	-62.6 / 20.8
OVERHANG	1	-78.2 / 38.2	-44.6 / 31.3	-40.9 / 26.1
	2e	-99.9 / 38.2	-97.2 / 31.3	-95.2 / 26.1
	2r	-126.0 / 38.2	-118.0 / 31.3	-112.0 / 26.1
	3	-126.0 / 38.2	-108.7 / 31.3	-95.6 / 26.1

WALL COMPONENTS AND CLADDING WIND PRESSURE SCHEDULE

ZONE	EFFECTIVE WIND AREA			
	AREA ≤ 10 S.F.	AREA = 50 S.F.	AREA = 200 S.F.	500 S.F. ≤ AREA
4	-55.6 / 51.2	-50.2 / 45.9	-45.6 / 41.3	-42.6 / 38.2
5	-68.6 / 51.2	-57.9 / 45.9	-48.7 / 41.3	-42.6 / 38.2



A1 ROOF COMPONENTS AND CLADDING WIND PRESSURE DIAGRAM  
N.T.S.



A3 WALL COMPONENTS AND CLADDING WIND PRESSURE DIAGRAM - HIP ROOF  
N.T.S.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Services

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge -  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: D. SKULLY  
DRAWN BY: D. SKULLY  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

WIND LOADING  
DIAGRAMS

SHEET NUMBER

S-004

ORIGINAL SHEET SIZE:  
24" X 36"



## SHEET NOTES

- SEE SHEETS S-001, S-002, AND S-003 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATION KEY.
- SEE SHEET S-301 FOR TYPICAL FOUNDATION DETAILS.
- REFERENCE FIRST FLOOR FRAMING ELEVATION OF 0'-0" CORRESPONDS TO USGS ELEVATION OF 11.0'. SEE CIVIL DRAWINGS.
- TOP OF FOOTING ELEVATIONS = (-) 1'-0" BELOW FINISHED GRADE.
- TOP OF TIMBER PILES VARY. SEE FRAMING DETAILS. SEE GENERAL NOTES SECTION D FOR ADD'L INFO.

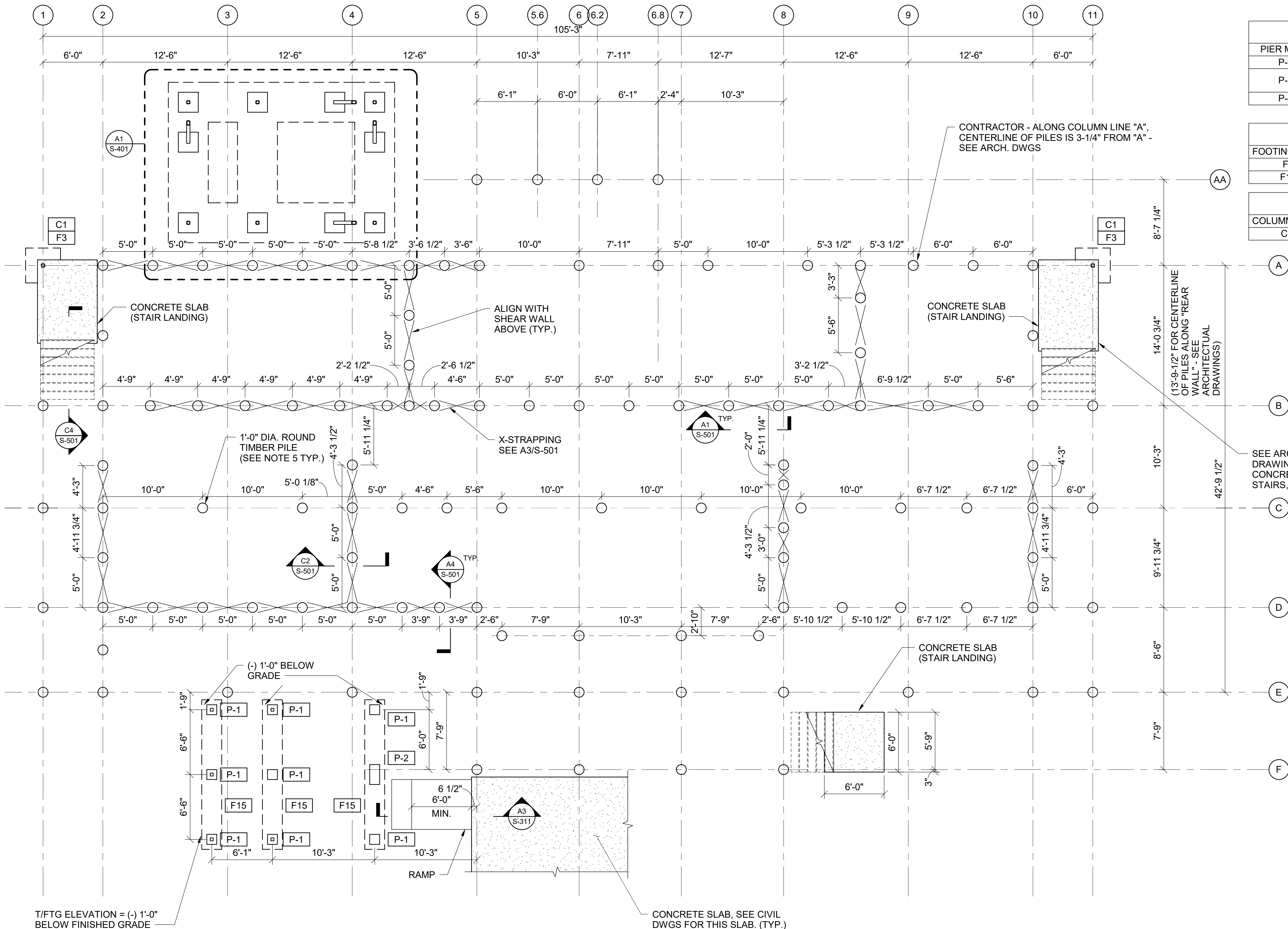
PIER SCHEDULE		
PIER MARK	SIZE	REINFORCEMENT
P-1	12" x 12"	(4) #5'S VERTICAL & #4 TIES @ 6" O.C.
P-2	12" x 24"	(8) #5'S VERTICAL & 2 SETS OF #4 TIES @ 6" O.C.
P-4	24" x 24"	(8) #7 W/ 3 SETS OF #4 TIES @ 6" O.C.

FOUNDATION SCHEDULE		
FOOTING MARK	SIZE (L X W X H)	REINFORCEMENT
F3	3'-6" x 3'-6" x 2'-0"	#5 @ 12" O.C. E.W. (BOTTOM)
F15	15'-0" x 2'-0" x 1'-0"	#5 @ 12" O.C. E.W. (BOTTOM)

COLUMN SCHEDULE		
COLUMN MARK	COLUMN SIZE	COMMENTS
C1	HSS 4x4x5/16	



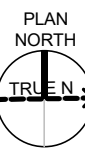
DESIGNED BY: D. SKULLY  
DRAWN BY: D. SKULLY  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834



A1

## FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

0 4' 8' 12'  
SCALE: 3/16" = 1'-0"



## SHEET NOTES

- SEE SHEETS S-001, S-002, AND S-003 FOR GENERAL STRUCTURAL NOTES, AND ABBREVIATION KEY.
- SEE SHEETS S-301 AND S-311 FOR TYPICAL DETAILS.
- TOP OF FLOOR SHEATHING ELEVATION = 11'-0", WHICH IS REFERENCE ELEVATION (0'-0") UNLESS NOTED OTHERWISE.
- FLOOR JOISTS SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES, UNLESS NOTED OTHERWISE.
- SEE S-601 FOR SHEAR WALL, JOIST HANGER, AND HEADER SCHEDULES AND ADDITIONAL INFO.
- SEE C4/S-601 FOR SHEAR WALL PLAN. ALL SHEAR WALLS SHALL BE CENTERED OVER BEAMS

## BEAM SCHEDULE

MARK	MEMBER	NOTES
LVL212	1.75 x 11.875	SEE NOTE 1
LVL412	3.5 x 11.875	SEE NOTE 1
(2) 2x12	(2) 1.5 x 11.25	SEE NOTE 2
LVL612	5.25 x 11.875	SEE NOTE 1
LVL712	7 x 11.875	SEE NOTE 1
(3) 2x12	(3) 1.5 x 11.875	SEE NOTE 2

## NOTES:

- SEE GENERAL NOTES SECTION H FOR LVL PROPERTIES AND ADDITIONAL INFO.
- USE PLYWOOD TO MATCH WIDTH OF LVL BEAMS AS NEEDED. SEE NOTE NO. 16 ON THE FASTENING SCHEDULE ON S602 FOR ATTACHING BUILT UP BEAMS TOGETHER.
- ALL BEAMS CAN ONLY HAVE GAPS IN THEIR LENGTHS AT TOP OF PILES. GAPS CANNOT OCCUR BETWEEN PILES.

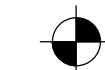
## MECHANICAL EQUIPMENT NOTES:

- MAXIMUM OPERATING WEIGHTS OF THE SELECTED EQUIPMENT SHALL BE VERIFIED AND COORDINATED WITH THE DESIGN WEIGHTS INDICATED BELOW BY THE CONSTRUCTION PROFESSIONAL. THIS SHALL BE COMPLETED BEFORE THE PROCUREMENT OF ANY MATERIALS AND EQUIPMENT AND THE DEVELOPMENT OF ANY SHOP DRAWINGS OR SUBMITTALS.
- THE STRUCTURE HAS BEEN DESIGNED FOR MECHANICAL EQUIPMENT WITH THE FOLLOWING MAXIMUM OPERATING WEIGHTS:

MECH EQUIPMENT	OPERATING WEIGHT (LBS.)
FIRE PUMP & TANK	4,000
WATER HEATER	1,400

- NOT ALL MECHANICAL EQUIPMENT IS SHOWN. ONLY LARGER EQUIPMENT WITH THE MAXIMUM OPERATING WEIGHTS USED FOR THE STRUCTURAL DESIGN IS INDICATED.

## SHEET LEGEND

-  DENOTES TOP OF DECKING ELEVATION (SEE ARCH. DWGS. FOR ADDITIONAL INFORMATION REGARDING SLOPING DECK.)

## CLIENT INFORMATION



US Fish &amp; Wildlife Services

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge -  
BunkhouseLA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: D. SKULLY  
DRAWN BY: D. SKULLY  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

## SHEET TITLE

FIRST FLOOR  
FRAMING PLAN

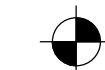
## SHEET NUMBER

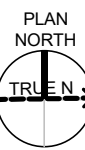
S-111

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION

18'-8" x 12'-1"  
PLATFORM W/  
GALV STEEL  
GRATINGCONTRACTOR: THE FLOOR MEMBERS  
WILL ONLY HAVE SPLICES/GAPS  
OCCURRING OVER PILESMINIMUM OF (3) 2x6s AT  
GIRDER TRUSS ABOVE -  
SEE ROOF PLAN (TYP.)2x4@16" O.C.  
FOR INTERIOR  
LOAD BEARING  
WALLS, TYP.

 DENOTES TOP OF DECKING ELEVATION (SEE ARCH. DWGS. FOR ADDITIONAL INFORMATION REGARDING SLOPING DECK.)

0 4' 8' 12'  
SCALE: 3/16" = 1'-0"

## FIRST FLOOR FRAMING PLAN

SCALE: 3/16" = 1'-0"



## SHEET NOTES

- WHERE SPACING BETWEEN TRUSSES EXCEED 2 FEET O.C., THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL FRAMING AT THE TOP CHORD FOR SUPPORT OF ROOF SHEATHING AND AT THE BOTTOM CHORD FOR SUPPORT OF CEILING.
- SEE S-502 FOR SCHEMATIC TRUSS PROFILES FOR TRUSSES TYPE A, B, AND C (INDICATED ON THIS PLAN.)
- TRUSS MFR SHALL PROVIDE GIRDER AT BOTTOM CHORD TO ALLOW MECH UNIT TO BE MOUNTED FLUSH WITH CEILING. COORD W/ MECH. TOP CHORDS SHALL PROVIDE CONTINUOUS SUPPORT FOR ROOF SHEATHING.
- ATTIC TO BE DRAFTSTOPPED INTO 3000SF MAX SECTIONS. APPLY 1 LAYER 5/8" GWB TO TRUSS AND SEAL TO DECK AND RATED CEILING BELOW.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

## CLIENT INFORMATION



US Fish & Wildlife Services

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge -  
Bunkhouse

LA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: B. NEW  
DRAWN BY: E. GOSSETT  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

## SHEET TITLE

ATTIC FRAMING  
PLAN

## SHEET NUMBER

S-121

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION

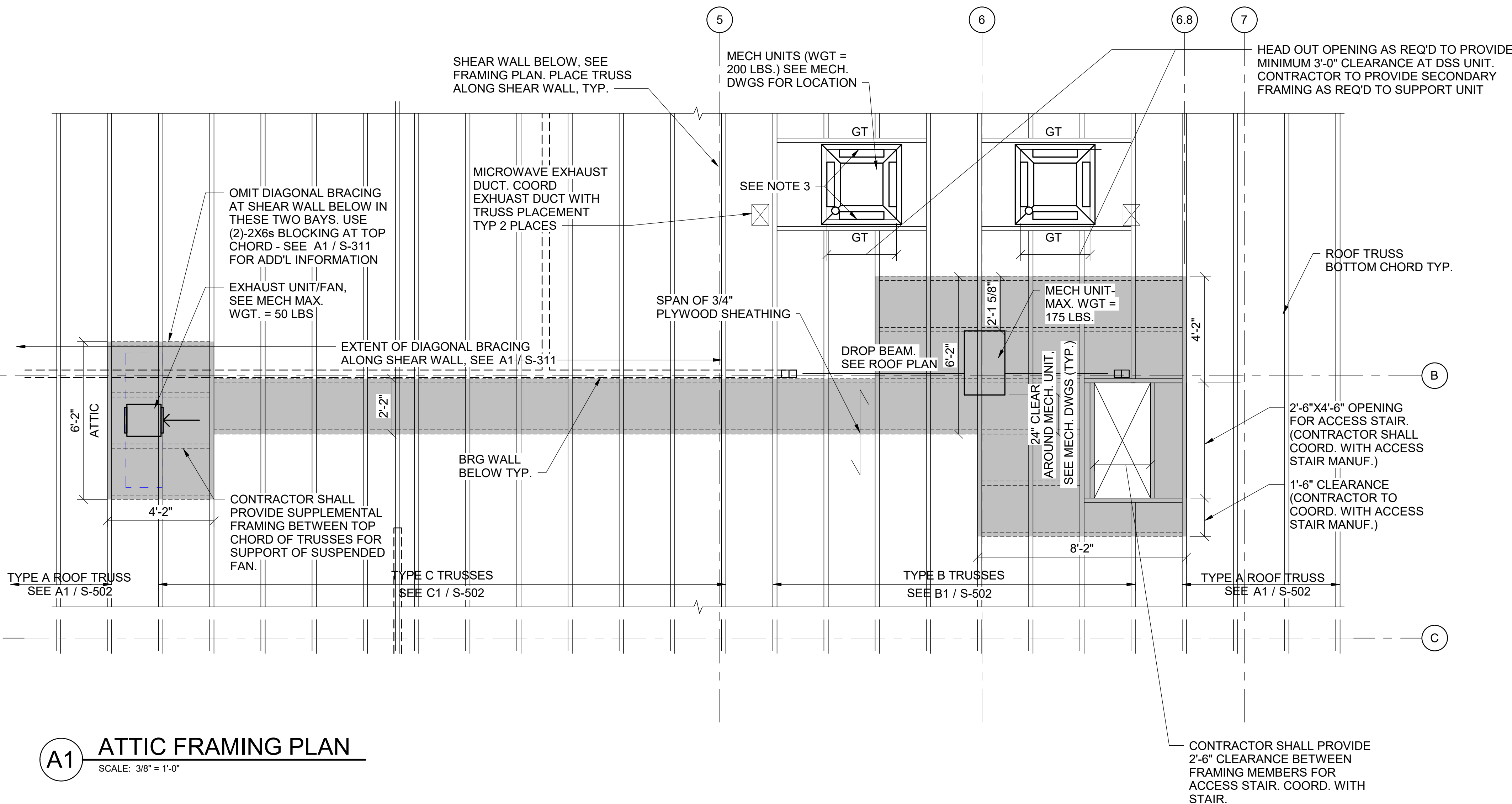
2/10/2025 3:03:14 PM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_STRC\_v21.rvt

D

C

B

A



# A1 ATTIC FRAMING PLAN

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



## SHEET NOTES

- SEE SHEETS S-001,S-002, AND S-003 FOR GENERAL STRUCTURAL NOTES, AND ABBREVIATION KEY.
- SEE SHEET S-351 FOR TYPICAL DETAILS.
- ROOF DECK AND ATTACHMENT SHALL BE OF THE TYPE SPECIFIED IN GENERAL NOTE 1 ON SHEET S-002.
- ROOF TRUSSES SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES, UNLESS NOTED OTHERWISE.
- SEE SHEET S-601 FOR HEADER AND SHEAR WALL SCHEDULES, AND TYP DIAPHRAGM AND SHEAR WALL NAILING SCHEMATICS.
- TRUSS BEARING ELEV. 10'-1 1/8". ABOVE FLOOR SHEATHING
- CONTRACTOR SHALL ATTACH ROOF SHEATHING TO TRUSSES WITH AXIAL LOADS IN THEM USING 10d NAILS @ 6" O.C.

## ROOF BEAM SCHEDULE

MARK	MEMBER	NOTES
(2) 2x12	(2) 1.5 x 11.25	SEE NOTE 2
(3) 2x12	(3) 1.5 x 11.25	SEE NOTE 2
LVL612	5 1/4" x 11 7/8" LVL	SEE NOTE 1

## NOTES:

- SEE GENERAL NOTES SECTION H FOR LVL PROPERTIES AND ADDITIONAL INFO.
- USE PLYWOOD TO MATCH WIDTH OF LVL BEAMS AS NEEDED.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

## CLIENT INFORMATION



U.S. Fish & Wildlife Services

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge -  
Bunkhouse

LA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: D. SKULLY  
DRAWN BY: D. SKULLY  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

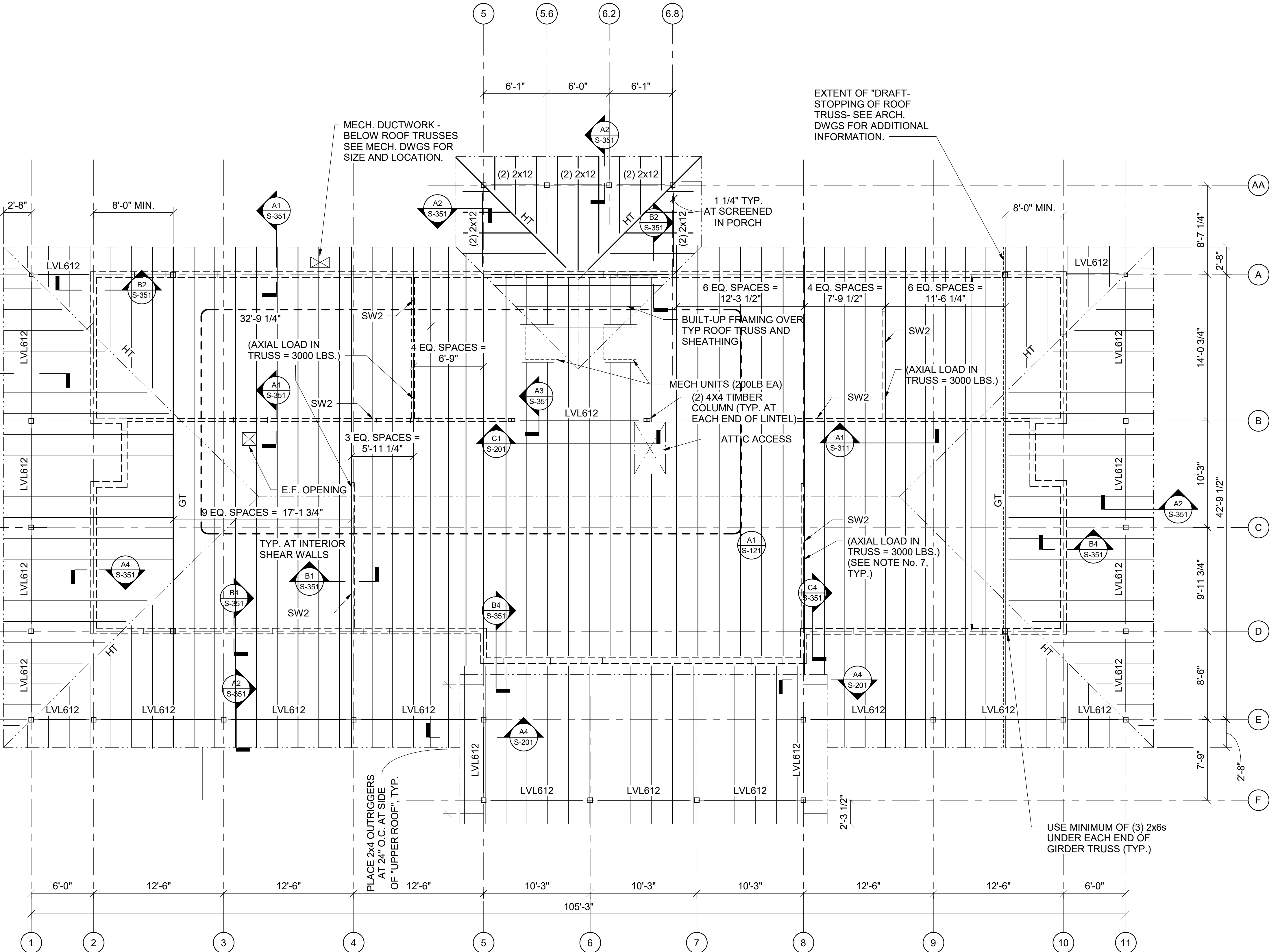
## SHEET TITLE

ROOF FRAMING  
PLAN

## SHEET NUMBER

S-151

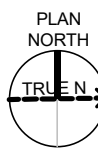
ORIGINAL SHEET SIZE:  
24" X 36"



# ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"

SCALE: 3/16" = 1'-0"



100% ISSUED FOR CONSTRUCTION



1

2

3

4

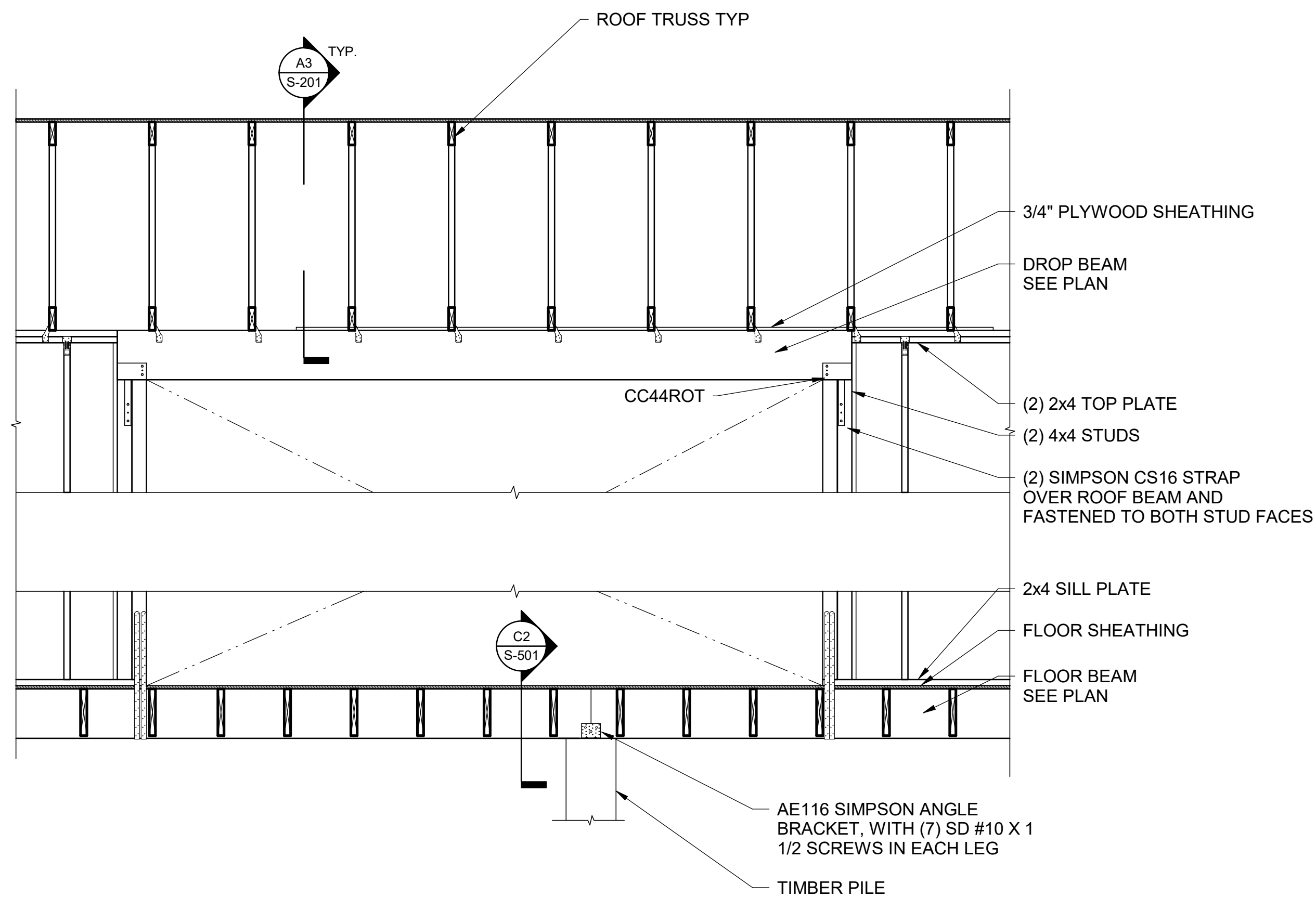
5

D

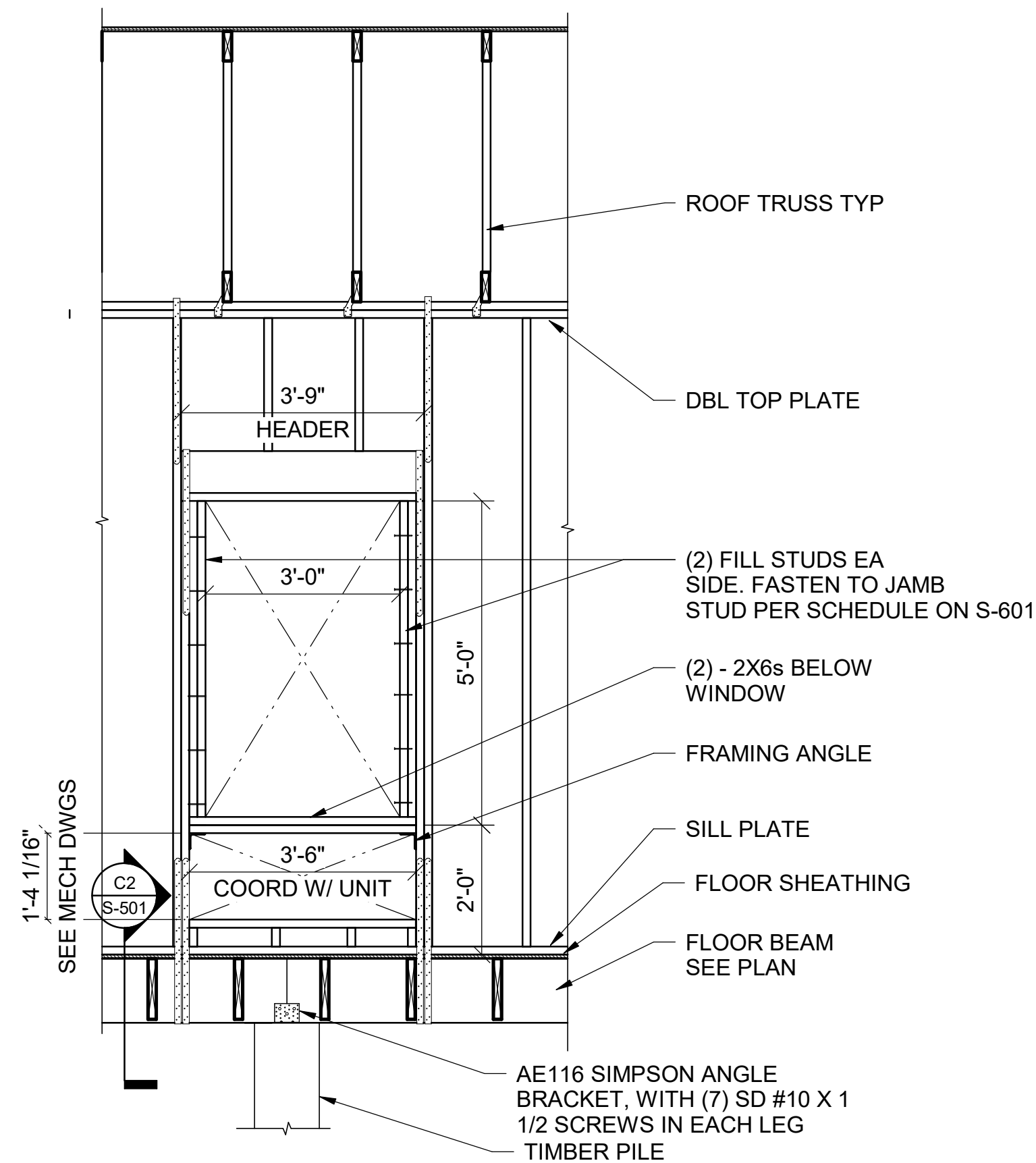
C

B

A



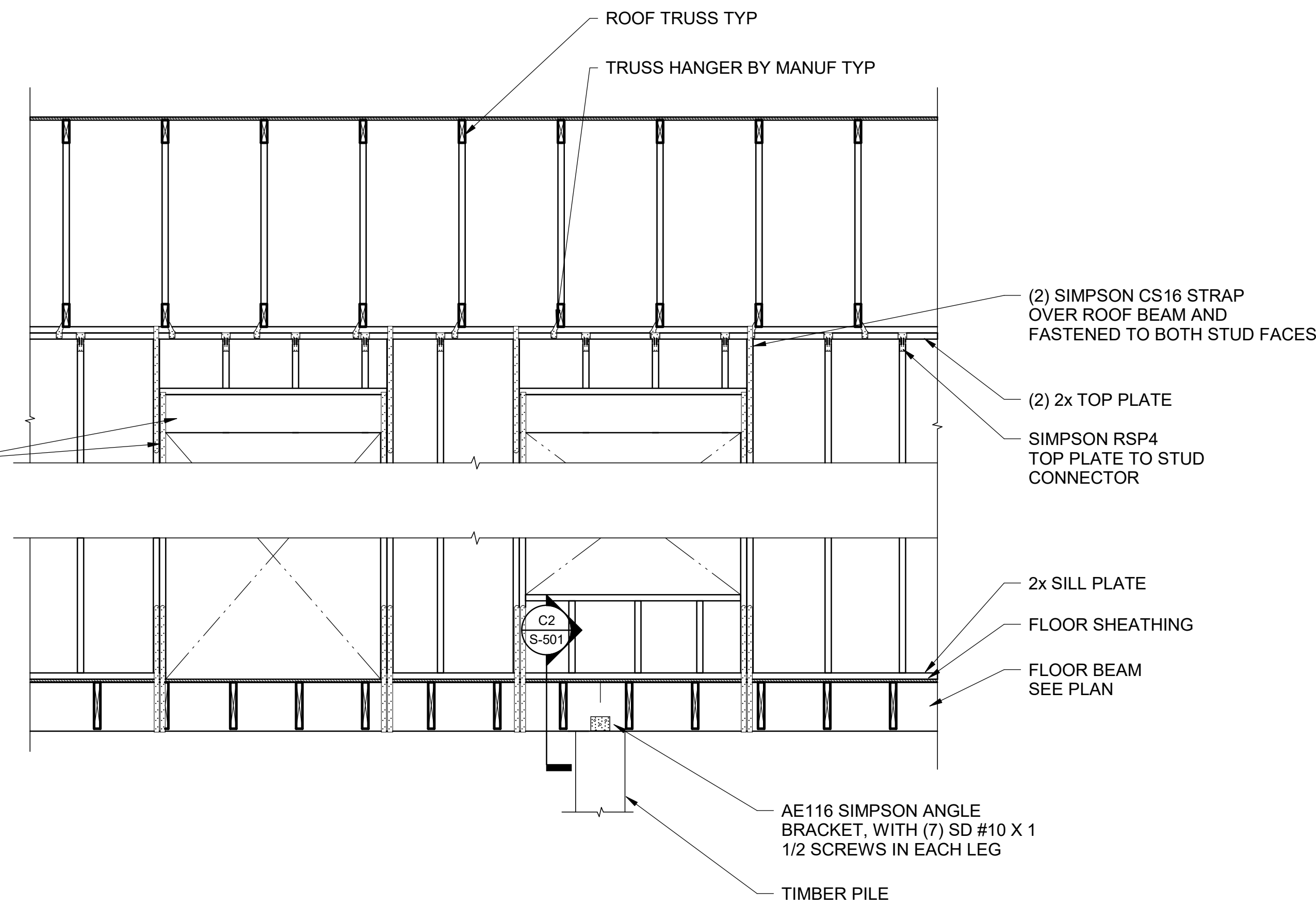
**C1** ELEVATION AT ROOF BEAM  
SCALE: 1/2" = 1'-0"



**A1** WINDOW W/PTAC MECHANICAL UNIT (SEE MECH. DWGS)  
N.T.S

TRUSS BRG  
10'-1 1/8"

HEADER & JAMB  
SEE SCHEDULE  
ON S-601



**C3** TYP SCHEMATIC WALL ELEVATION  
N.T.S

SPECIAL TRUSS OVER ATTIC -  
SEE TRUSS B ON S-502 FOR  
ADD'L INFORMATION.

ATTIC (SEE  
PLAN ON S-121)

**A3** SECTION THRU SUPPORT BEAM AT ATTIC  
SCALE: 1" = 1'-0"

ROOFING, SEE  
ARCH. DWGS, TYP.

SUPPLEMENTAL 2x FRAMING (MIN 2x6)  
ATTACHED TO WEB OF TRUSS (MIN 2-16D  
NAILS AT EA. CONNECTION) TO SUPPORT  
END OF ROOF SHEATHING

**A4** SECTION THRU SIDE OF "UPPER ROOF"  
N.T.S

**POND**

3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Services

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge -  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: D. SKULLY  
DRAWN BY: D. SKULLY  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C.CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

ELEVATIONS

SHEET NUMBER

**S-201**

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



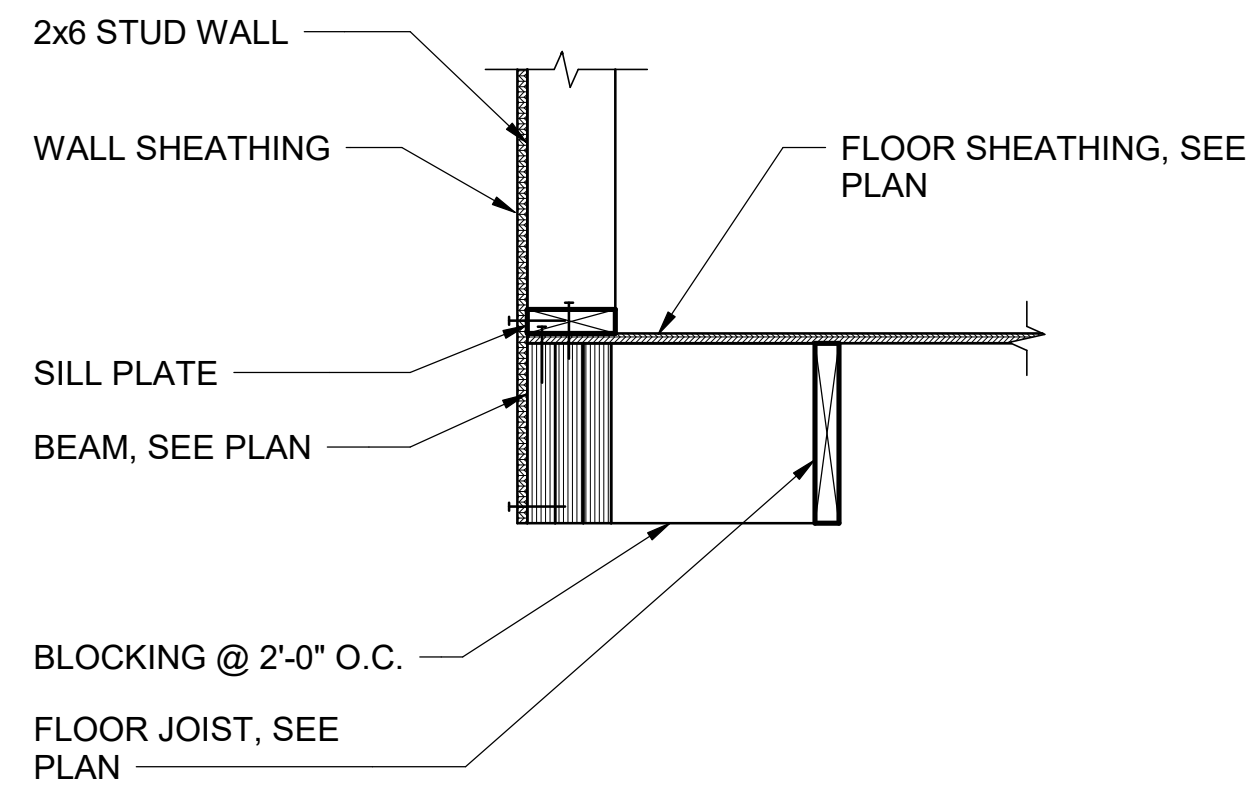
1

2

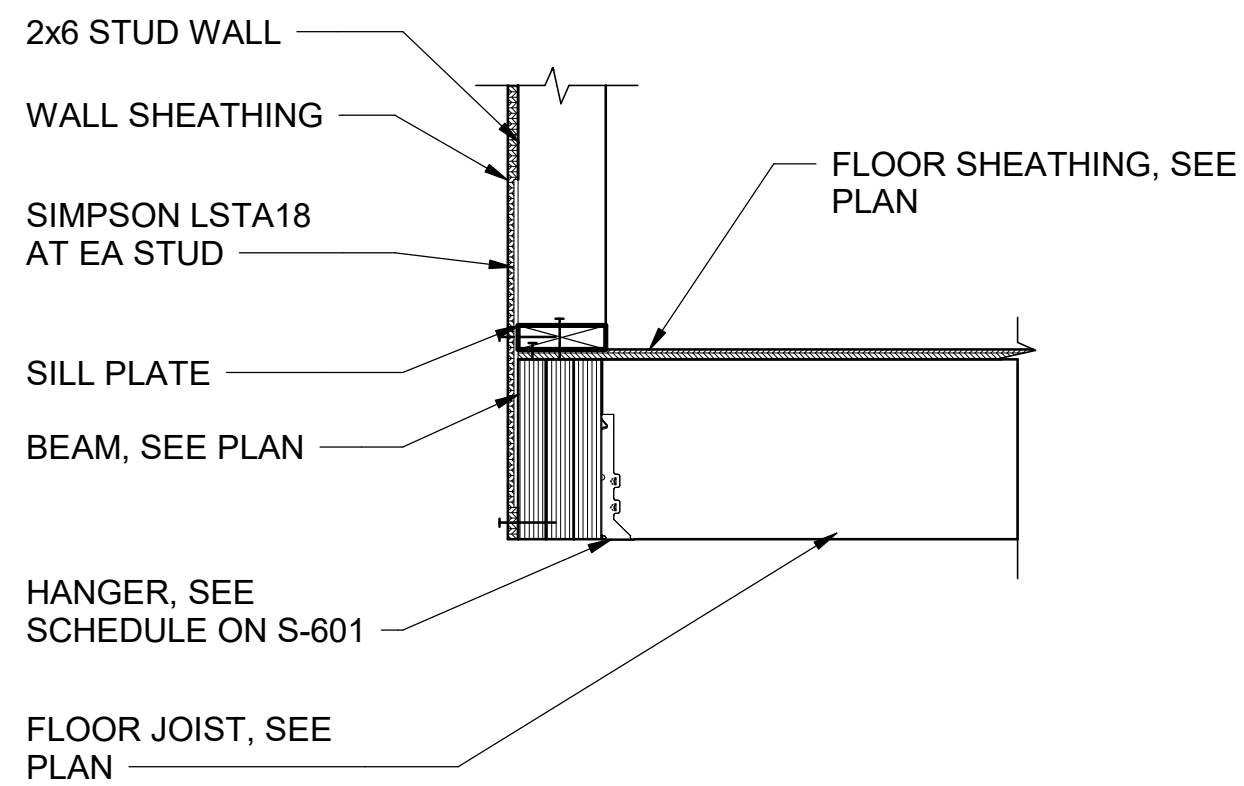
3

4

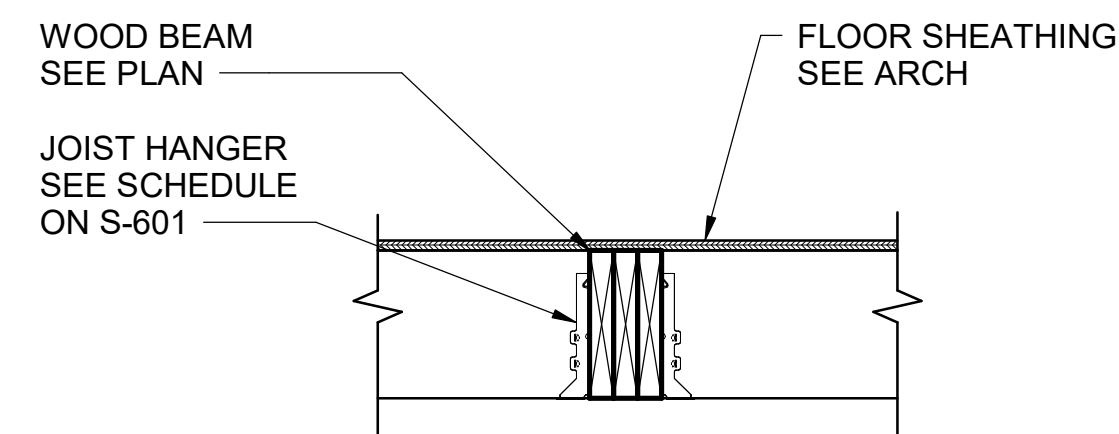
5



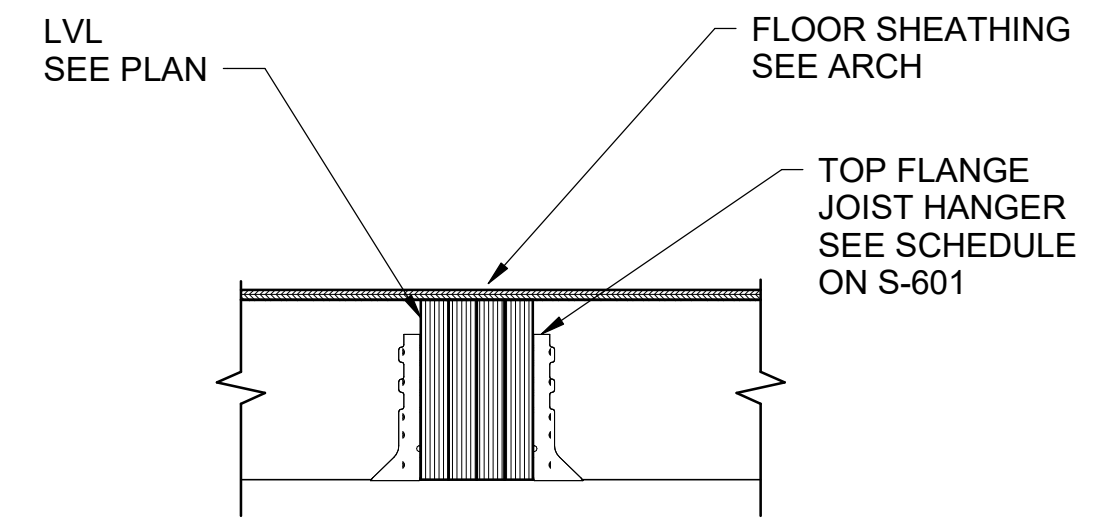
**D1** JOISTS PARALLEL AT EXT. WALLS  
SCALE: 1" = 1'-0"



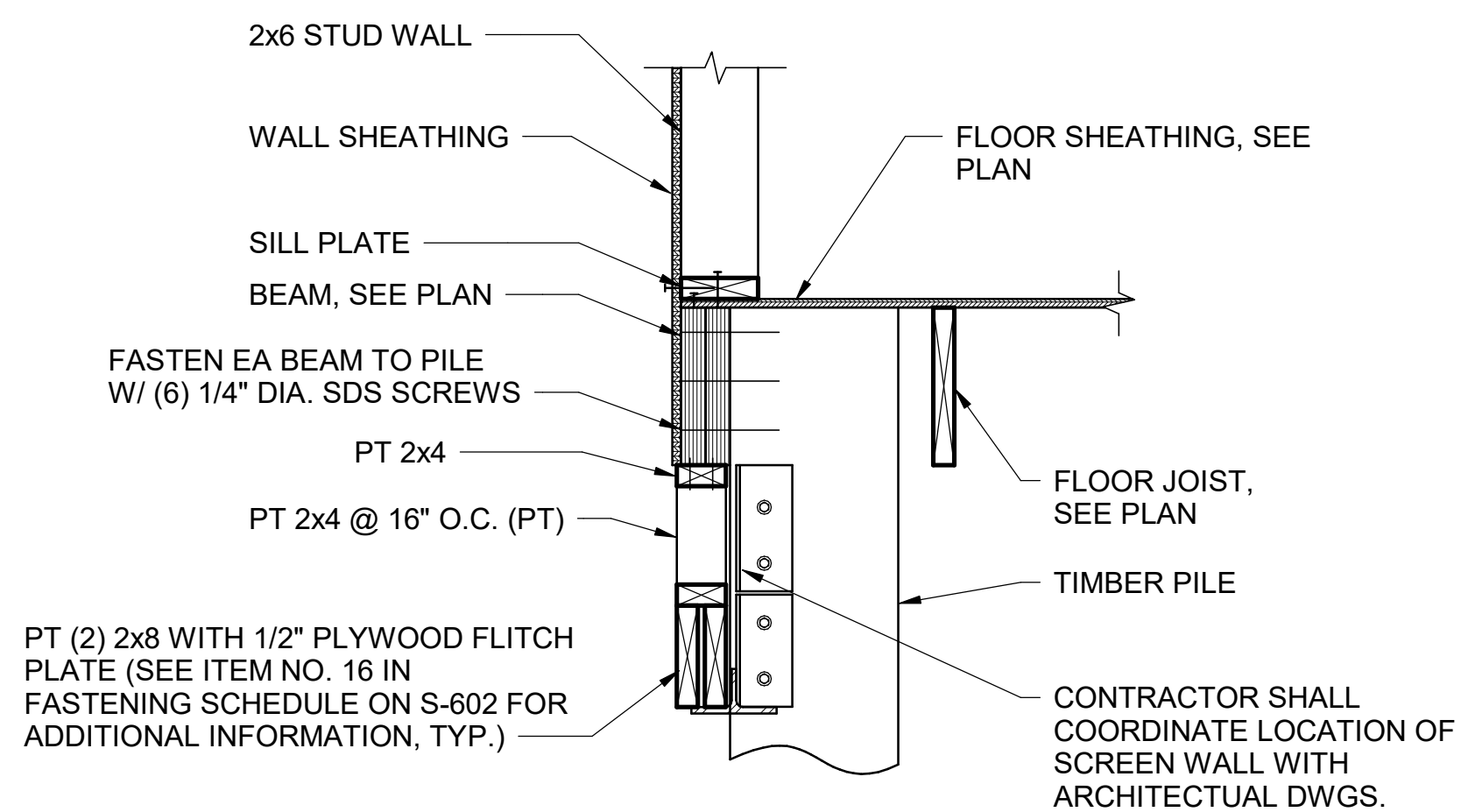
**D2** JOISTS PERPENDICULAR AT EXT. WALLS  
SCALE: 1" = 1'-0"



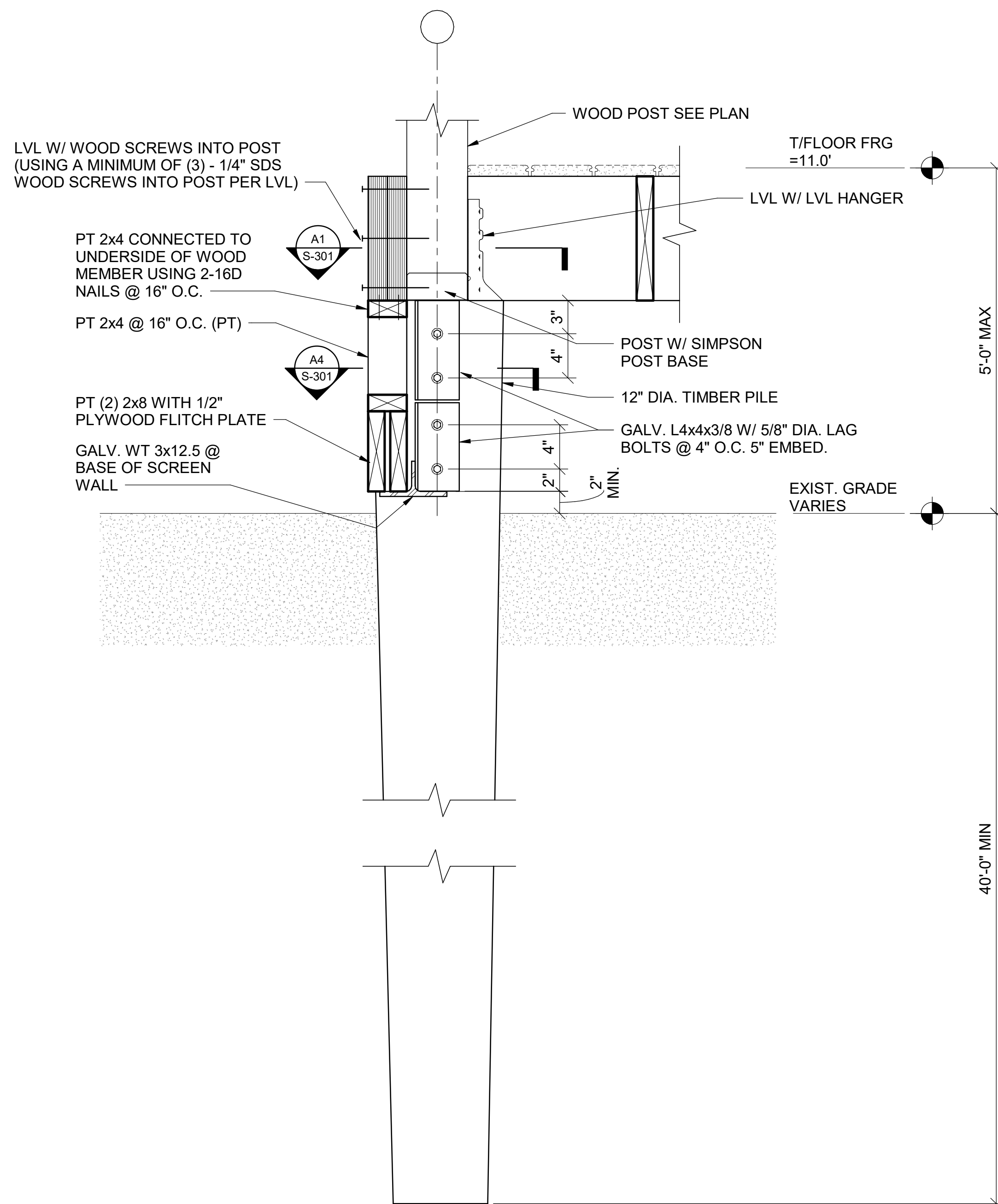
**D4** DECK BEAM  
SCALE: 1" = 1'-0"



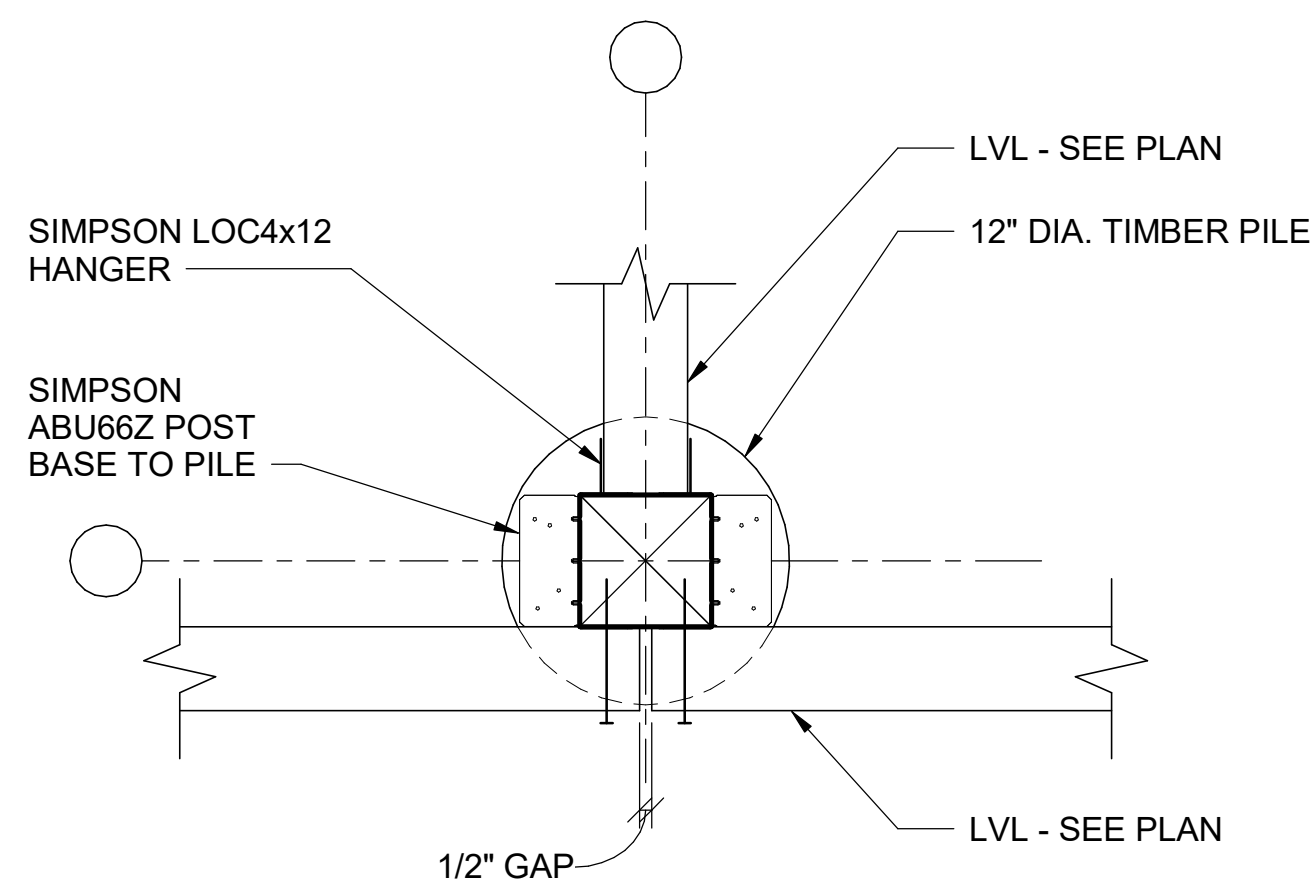
**D5** LVL SECTION  
SCALE: 1" = 1'-0"



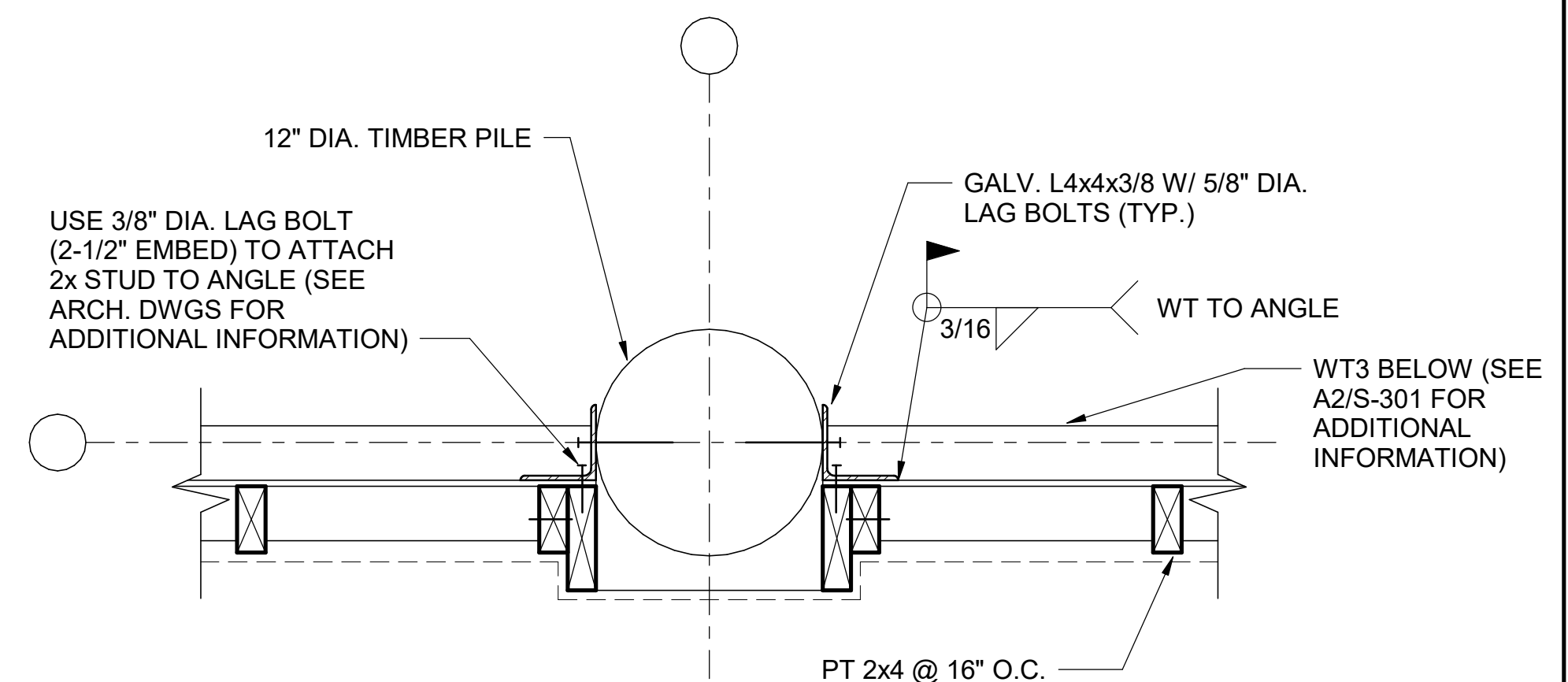
**B1** JOISTS PARALLEL AT EXT. WALLS  
N.T.S.



**A2** SECTION THRU POST @ PILE  
N.T.S.



**A1** PLAN - WOOD POST AT TIMBER PILE  
N.T.S.



**A4** PLAN @ PILE AT PORCH  
SCALE: 1 1/2" = 1'-0"

**POND**

3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Services

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge -  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: D. SKULLY  
DRAWN BY: D. SKULLY  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

FOUNDATION  
SECTIONS

SHEET NUMBER

**S-301**

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



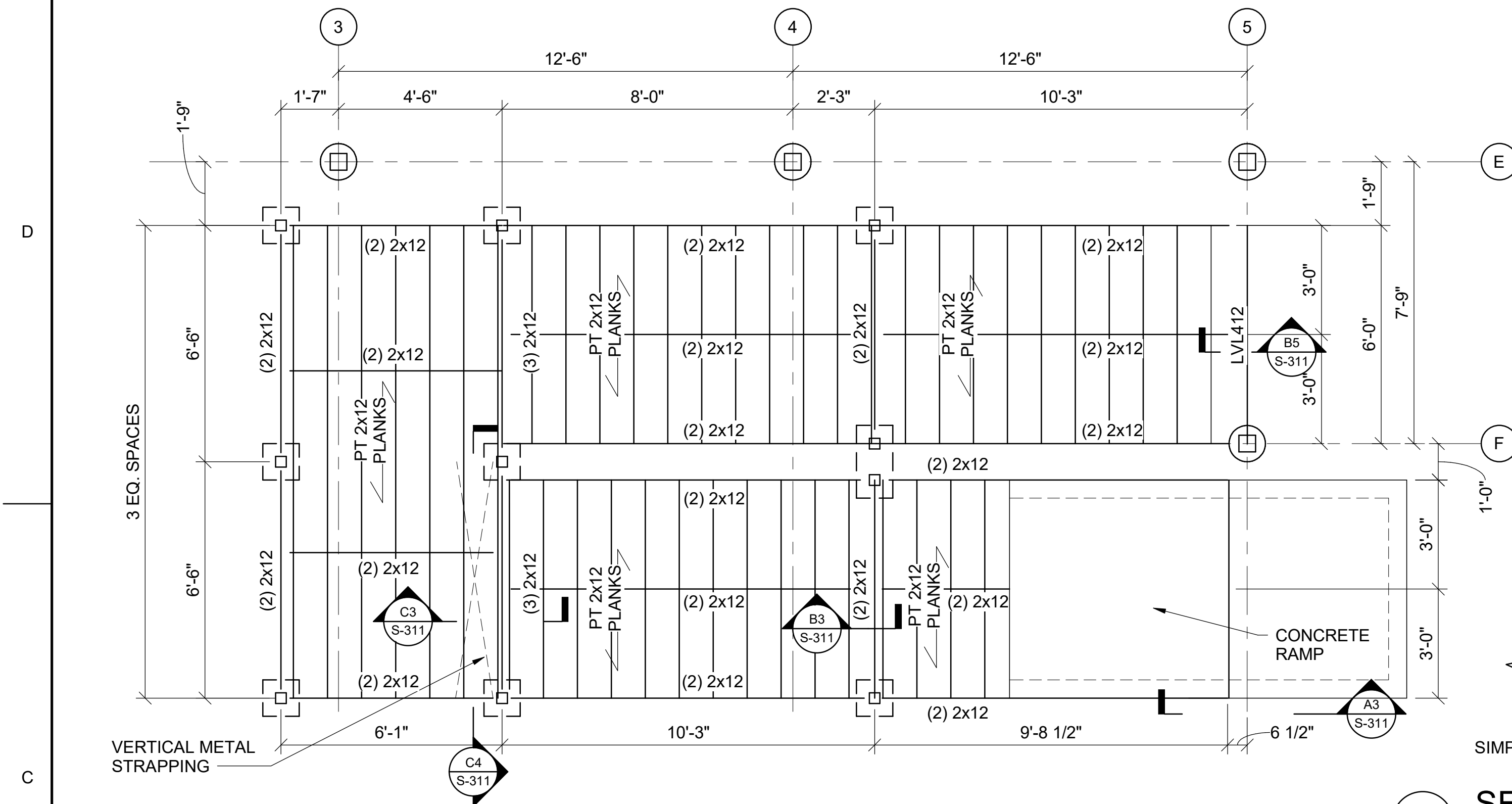
1

2

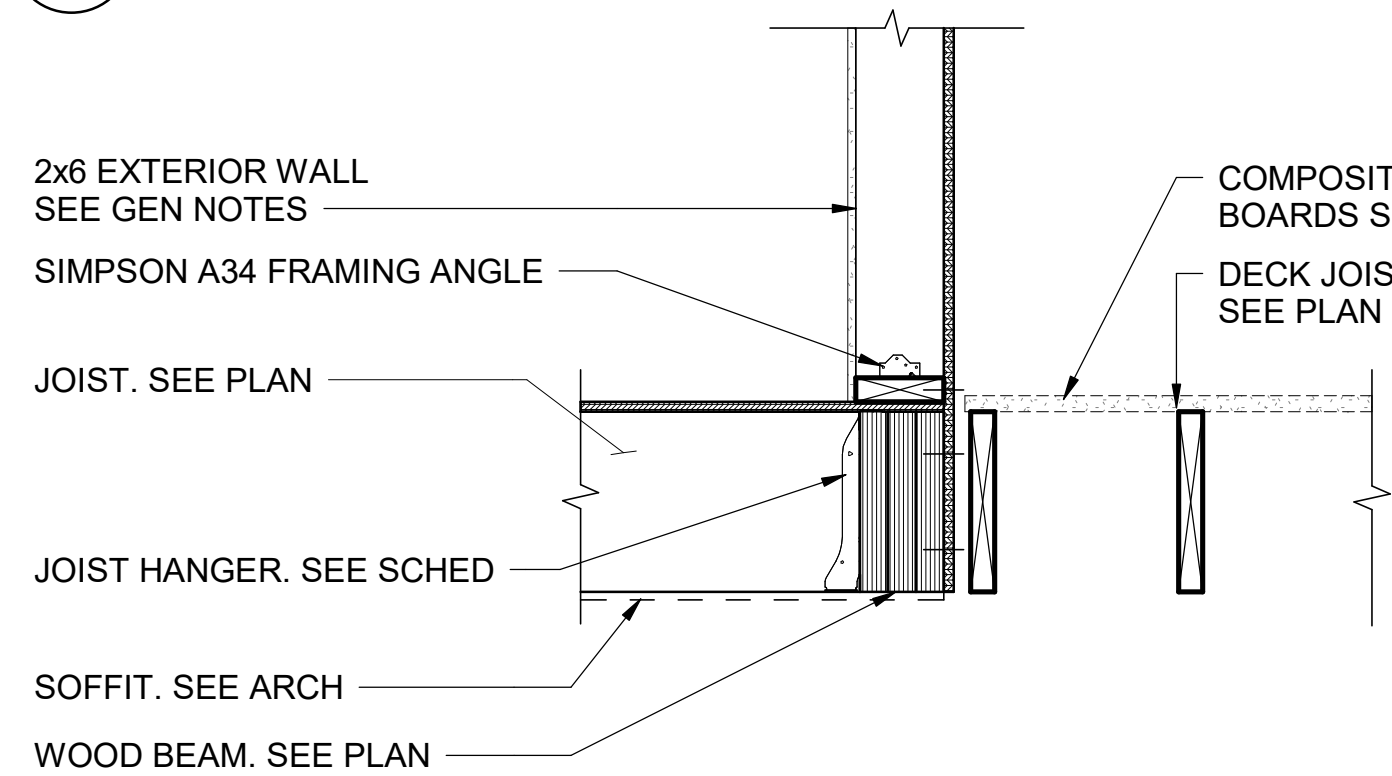
3

4

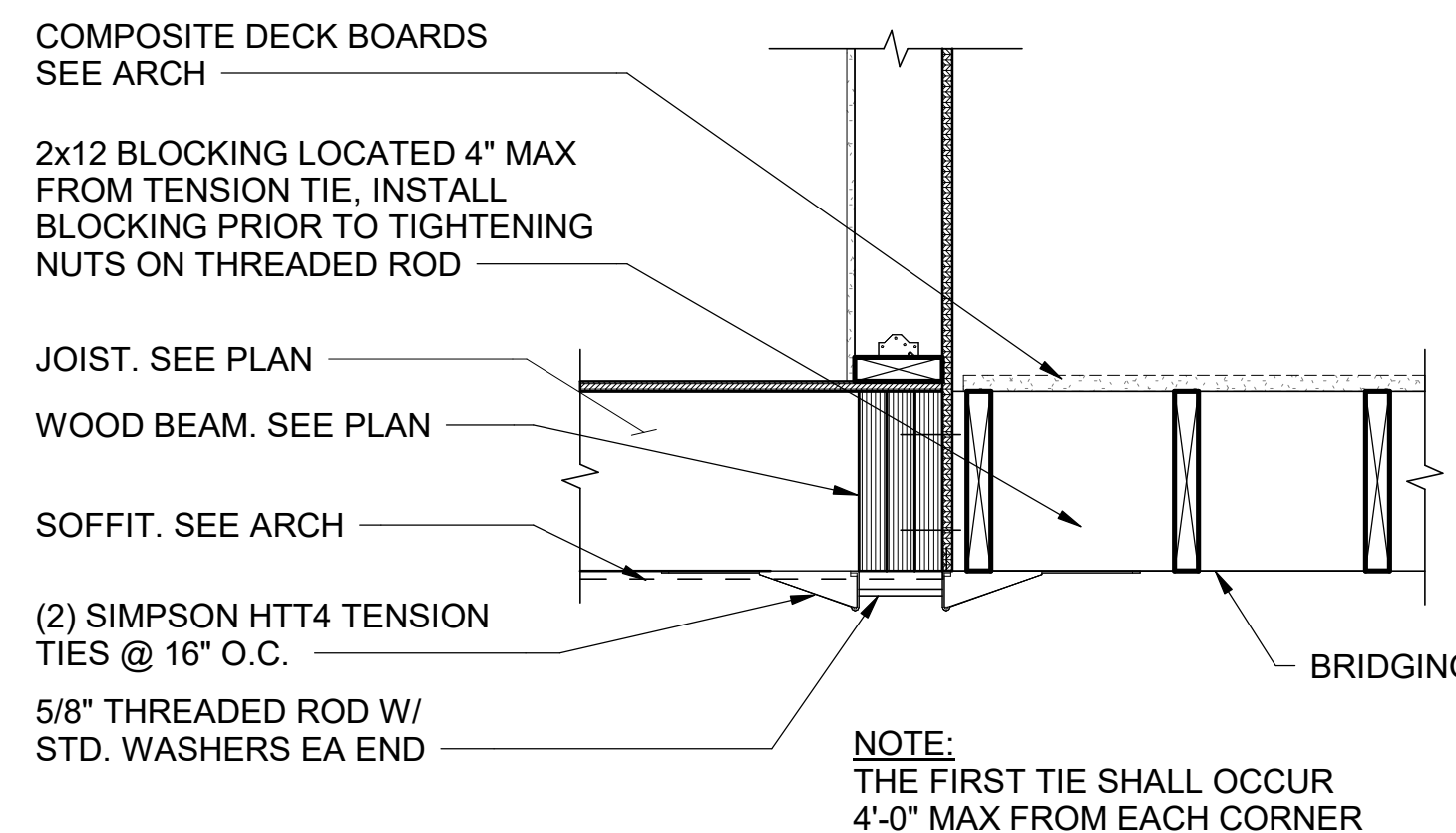
5

**C1 RAMP FRAMING PLAN**

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

**B1 TYP EXTERIOR WALL FRAMING**

N.T.S.

**B2 TENSION TIE W/BLOCKING**

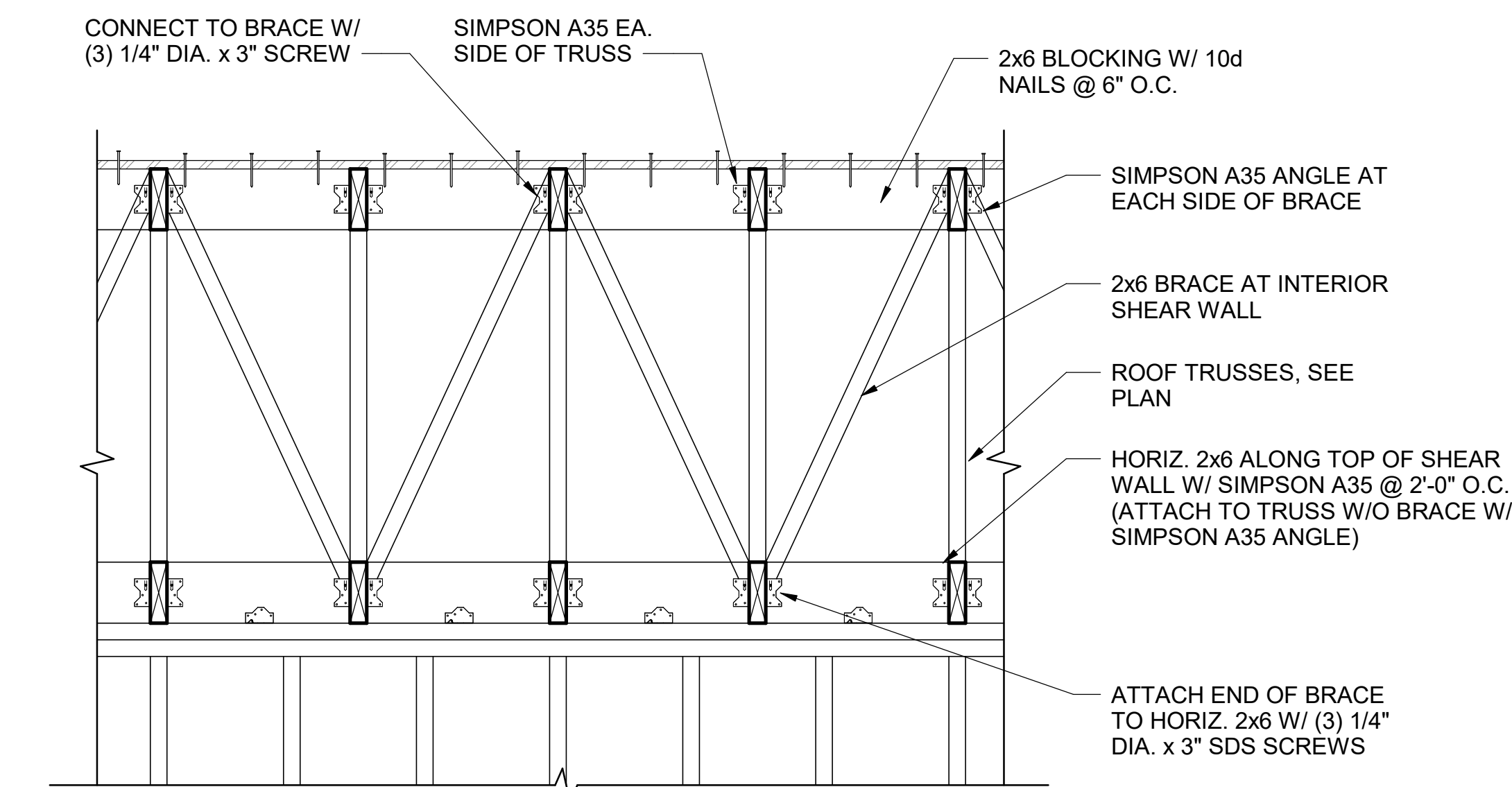
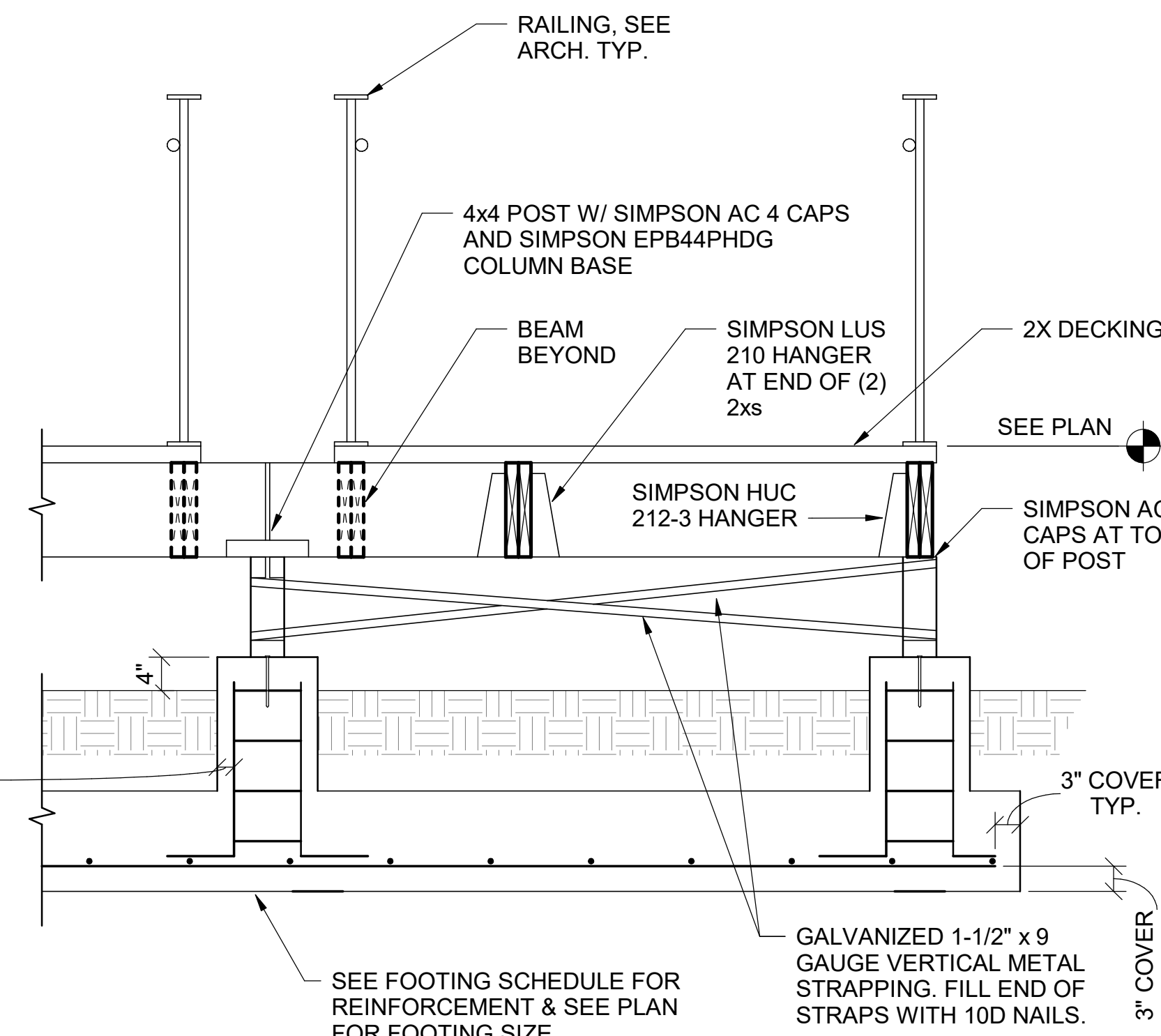
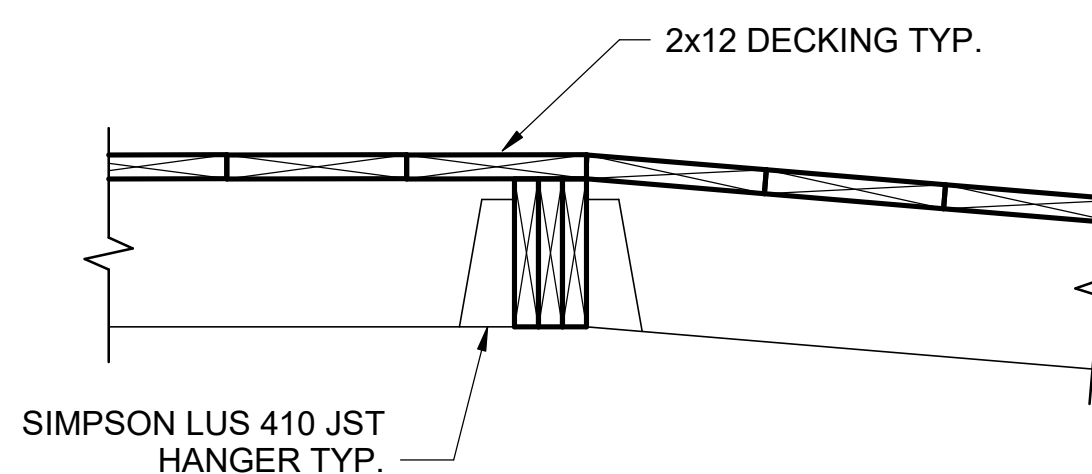
SCALE: 1" = 1'-0"

**C3 SECTION AT INTERMEDIATE LANDING**

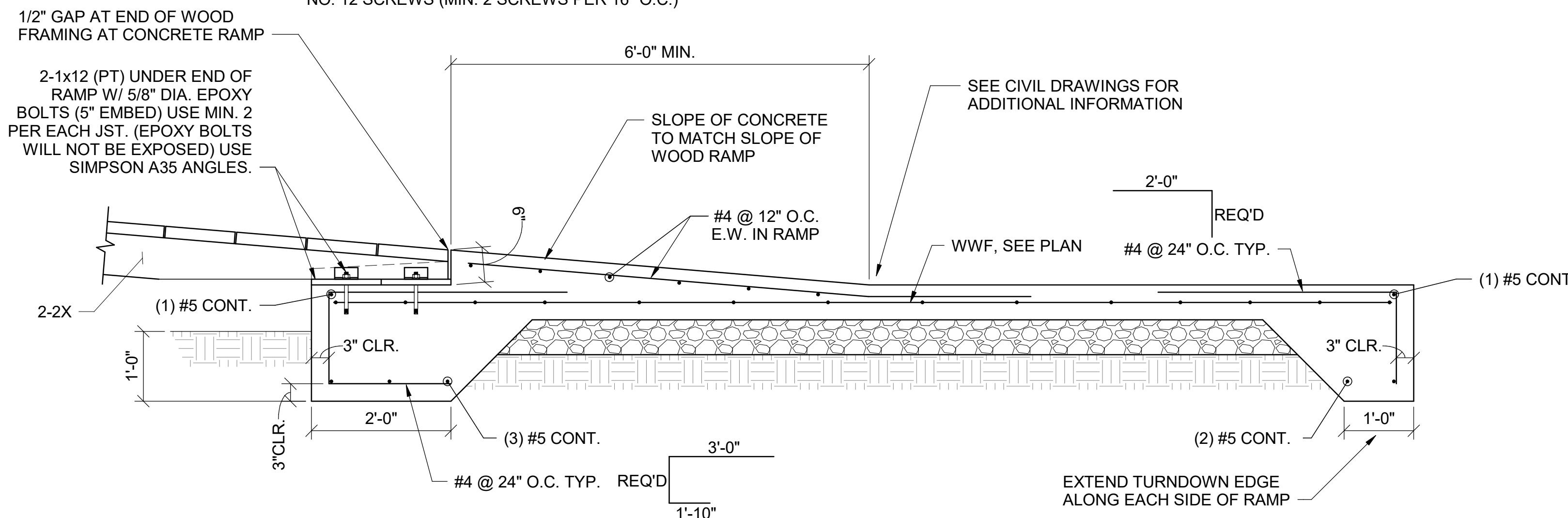
N.T.S.

**C4 TRANSVERSE SECTION AT LANDING**

N.T.S.

**A1 SECTION - TRUSSES OVER INTERIOR SHEAR WALL**

N.T.S.

**A3 SECTION AT BOTTOM OF RAMP**

N.T.S.

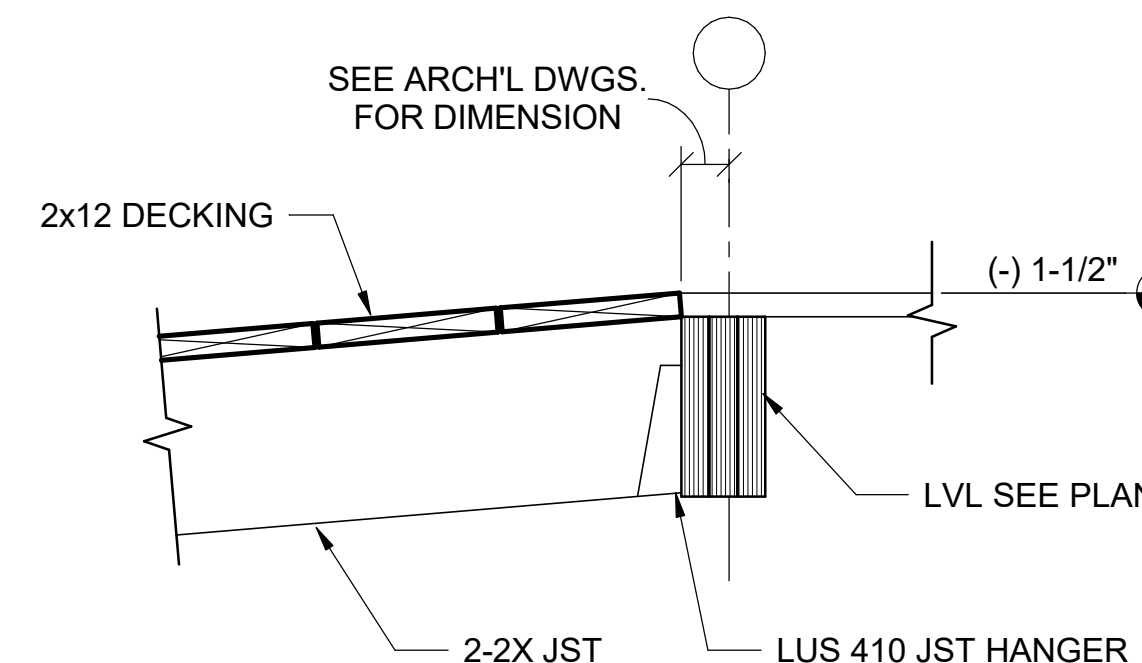
**B3 SECTION AT INTERMEDIATE SUPPORT**

N.T.S.

CONTRACTOR SHALL PLACE "SLOPING" PT 2xs BETWEEN JOISTS IN ORDER TO SLOPE WATER AWAY FROM END CONNECTION. ATTACH TO 1xs USING STAINLESS STEEL NO. 12 SCREWS (MIN. 2 SCREWS PER 16" O.C.)

**B5 SECTION AT TOP OF RAMP**

N.T.S.

**POND**3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond &amp; Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond &amp; Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



U.S. Fish &amp; Wildlife Services

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge -  
BunkhouseLA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: D. SKULLY  
DRAWN BY: D. SKULLY  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

FLOOR FRAMING  
SECTIONS

SHEET NUMBER

**S-311**ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION

2/10/2025 3:03:16 PM BIM 360://1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_STRC\_v21.rvt



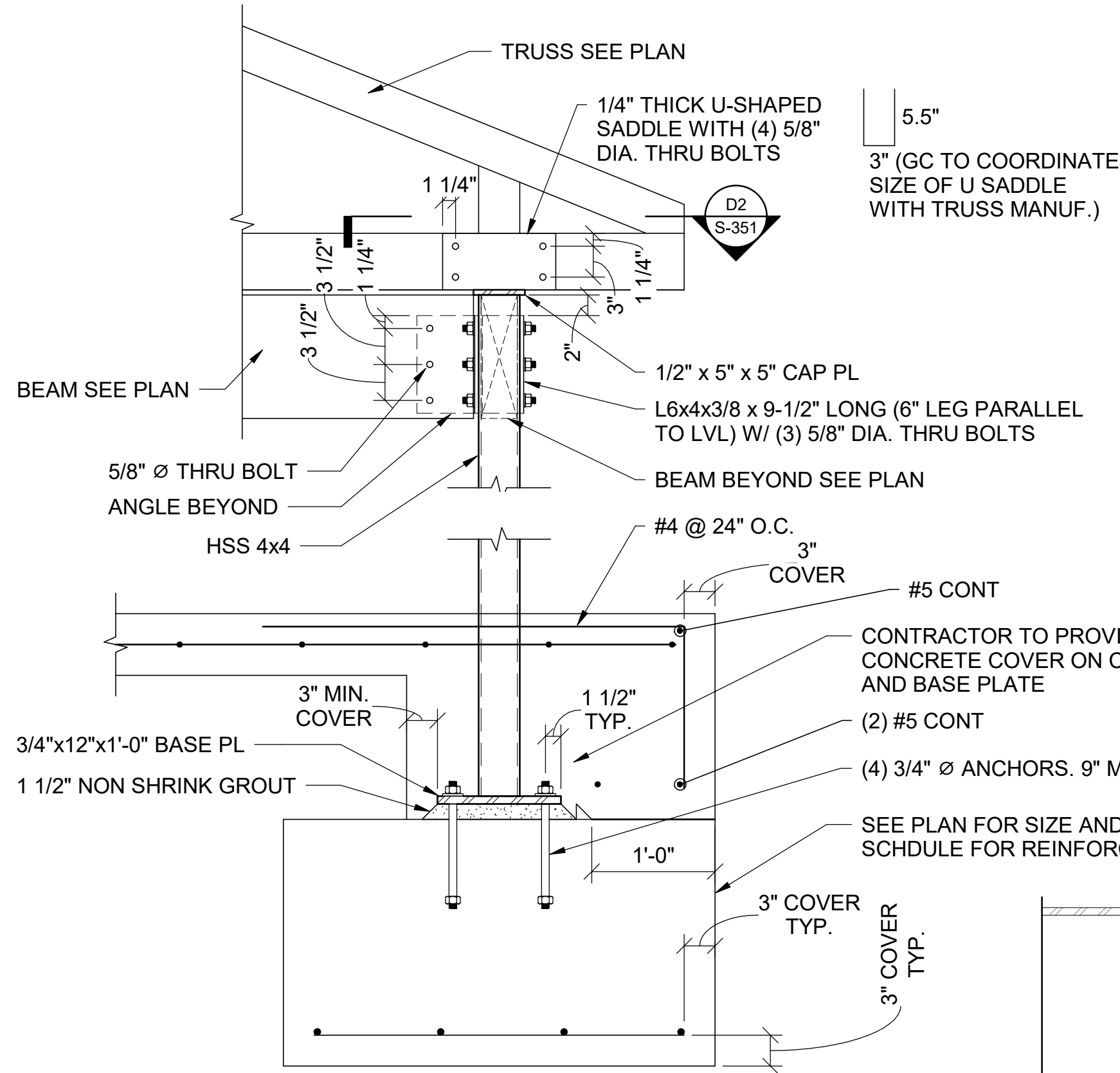
1

2

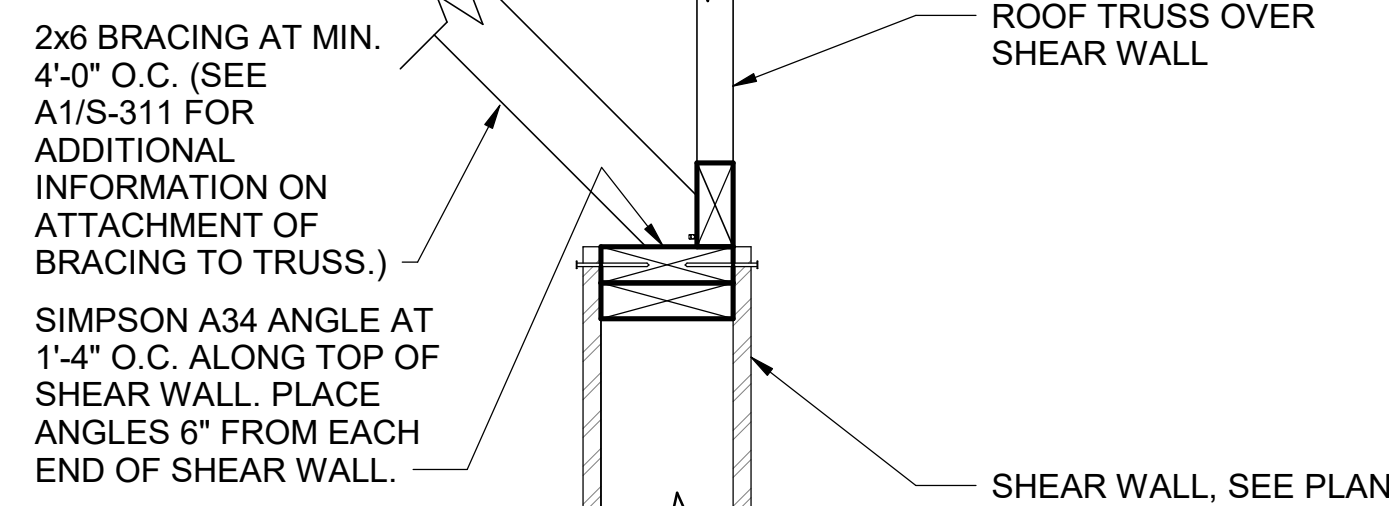
3

4

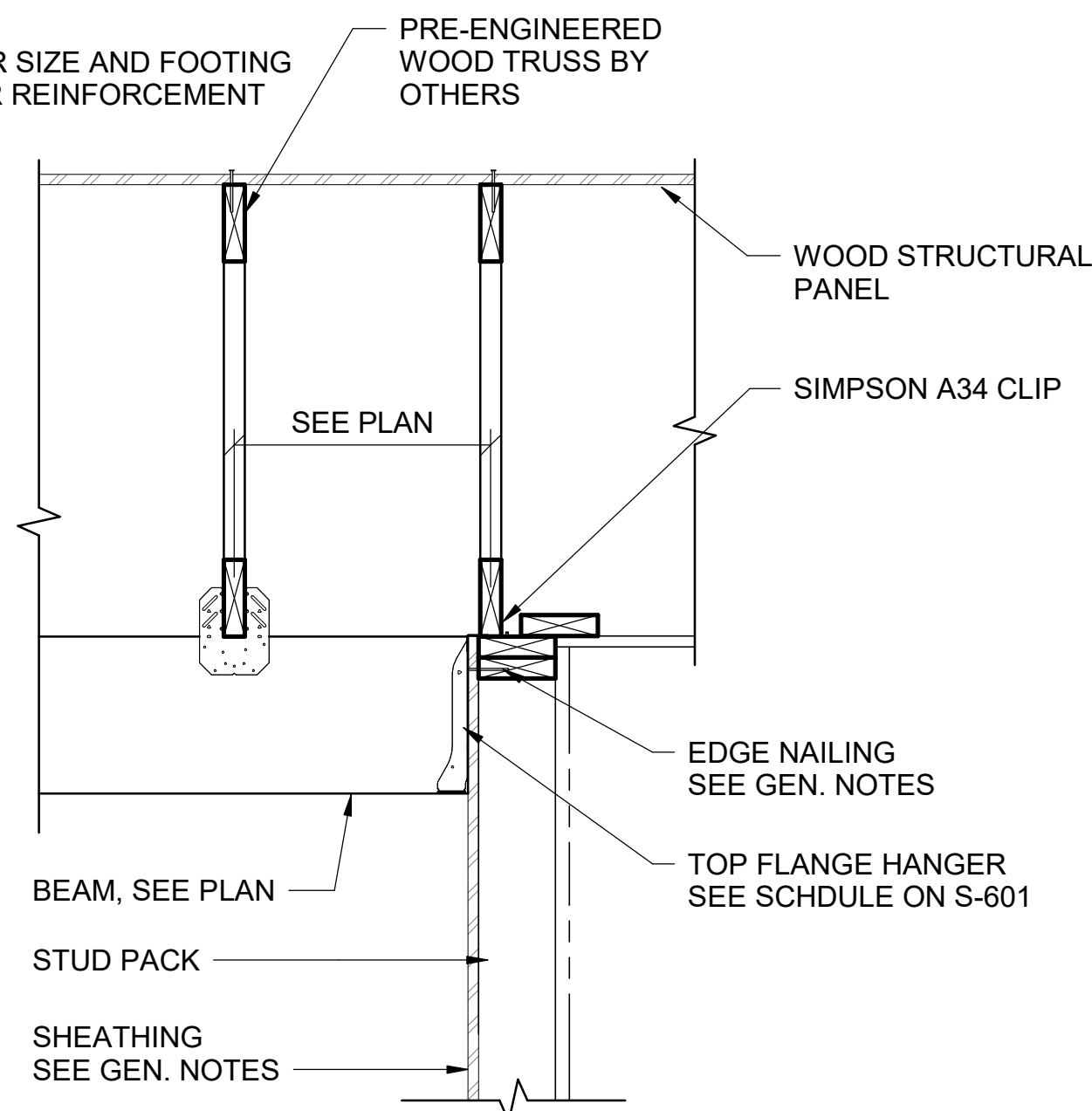
5

**C1 STEEL POST SECTION**

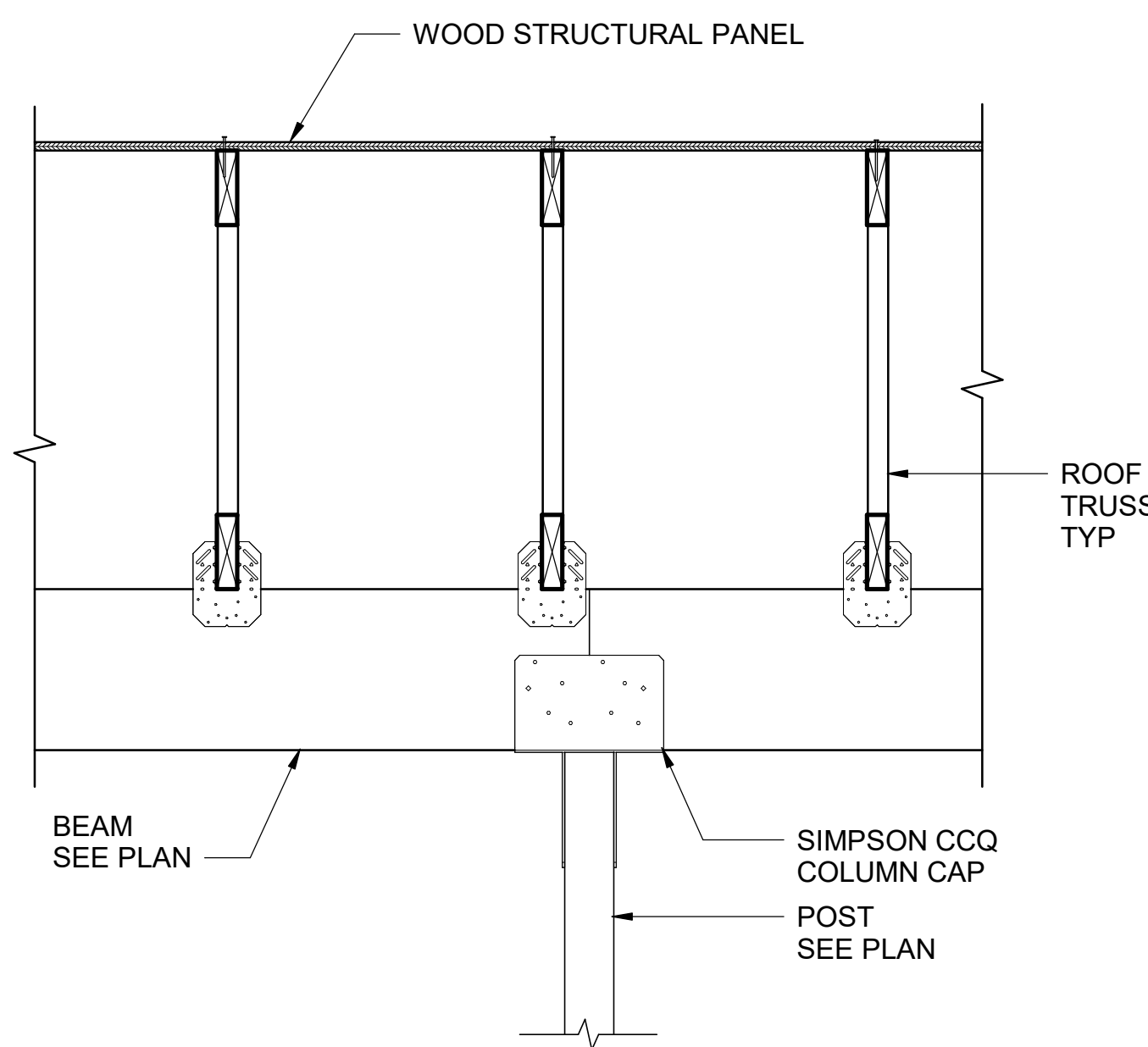
SCALE: 1" = 1'-0"

**B1 ROOF TRUSS ATTACHMENT TO TOP OF SHEAR WALL**

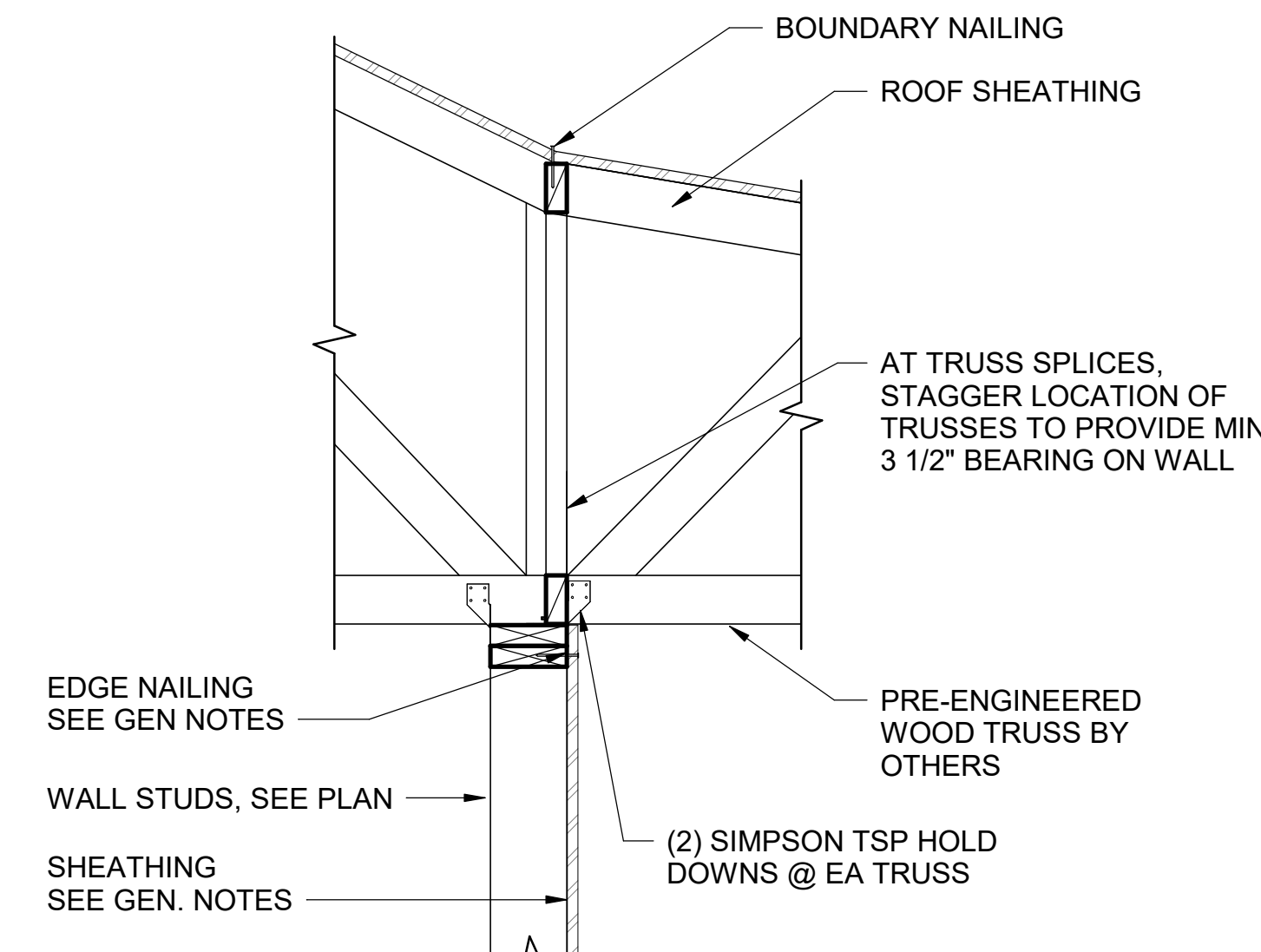
N.T.S.

**B2 EXTERIOR DROP BEAM**

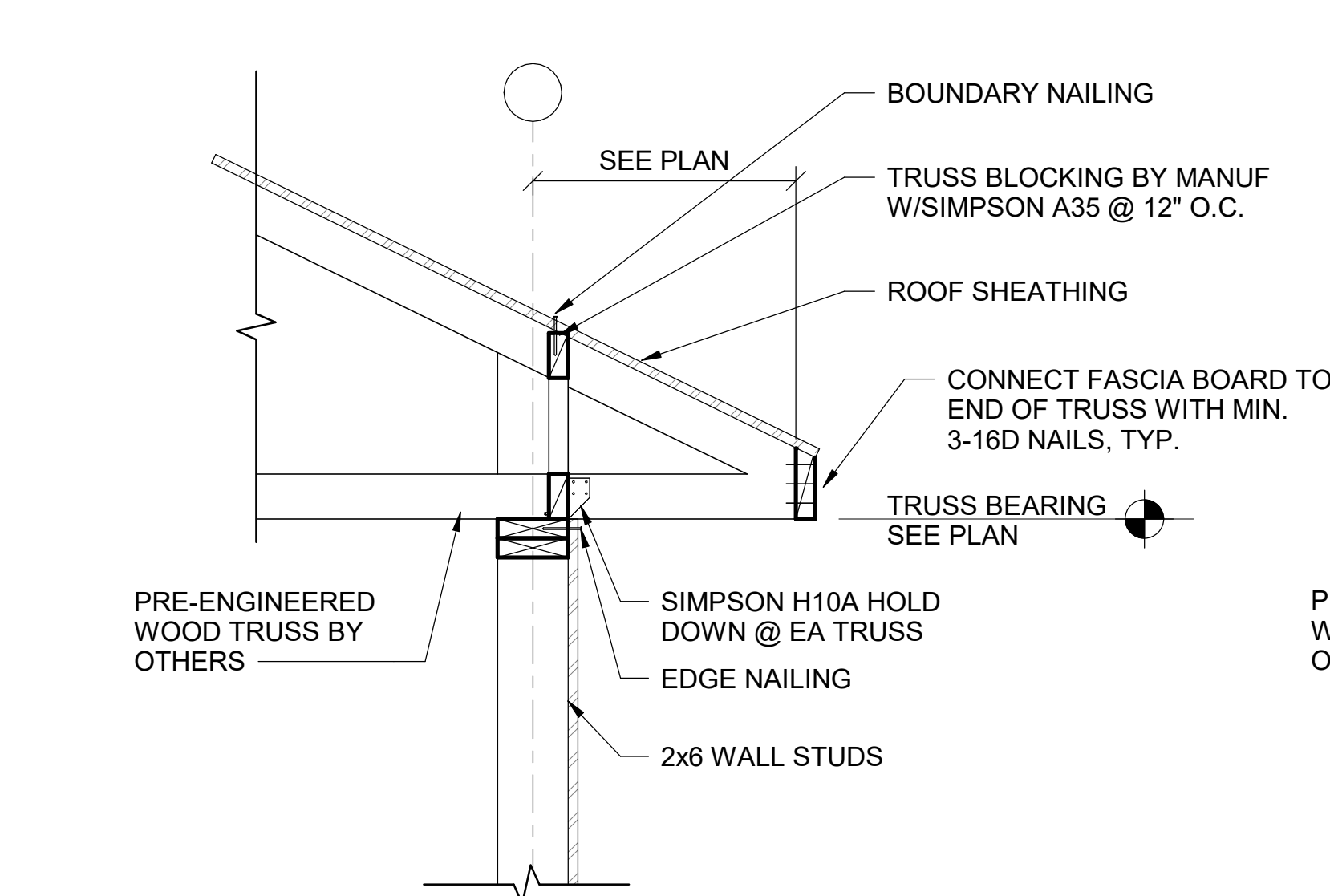
SCALE: 1" = 1'-0"

**B3 POST CAP**

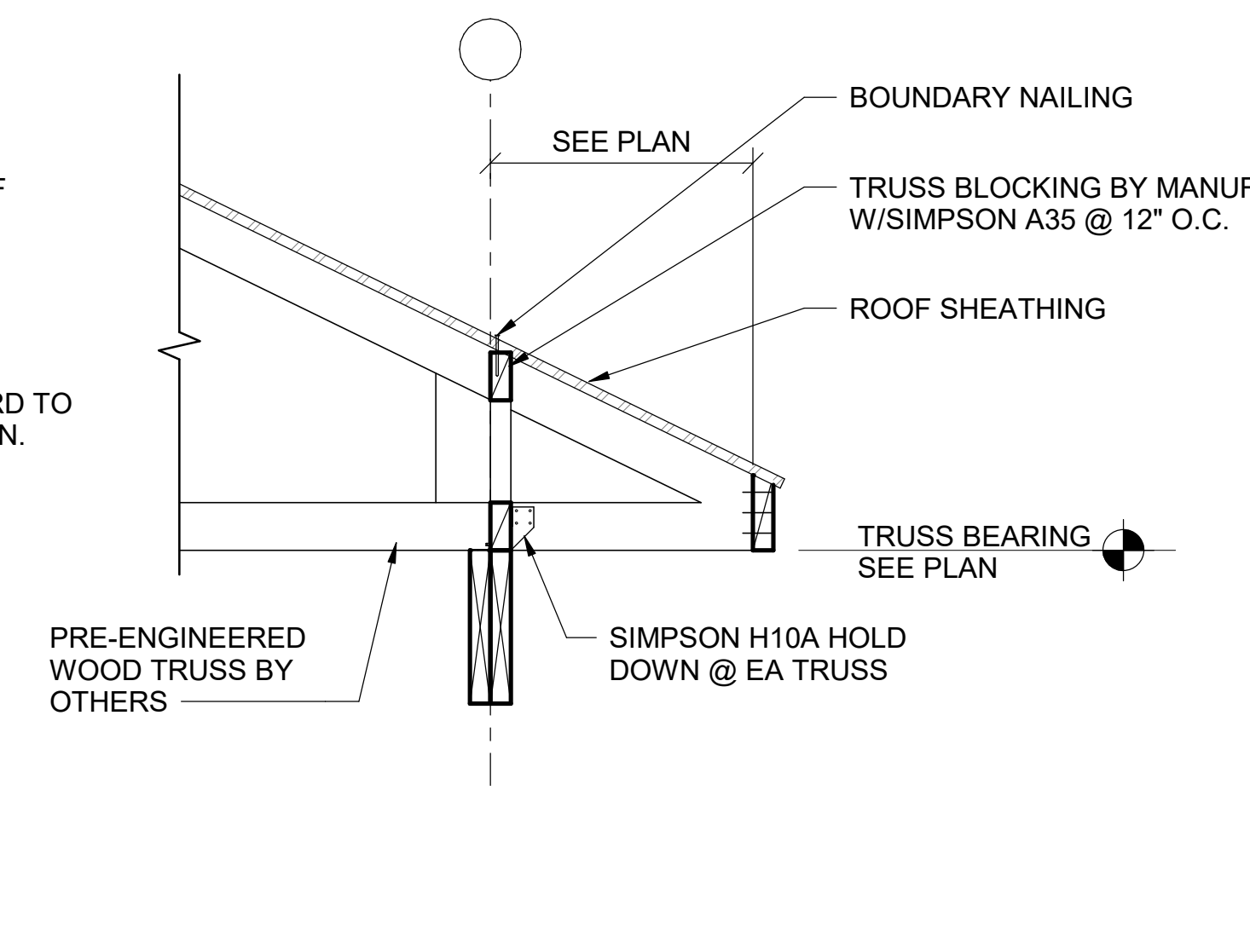
SCALE: 1" = 1'-0"

**B4 TYPE B TRUSS BEARING @ SHEAR WALL**

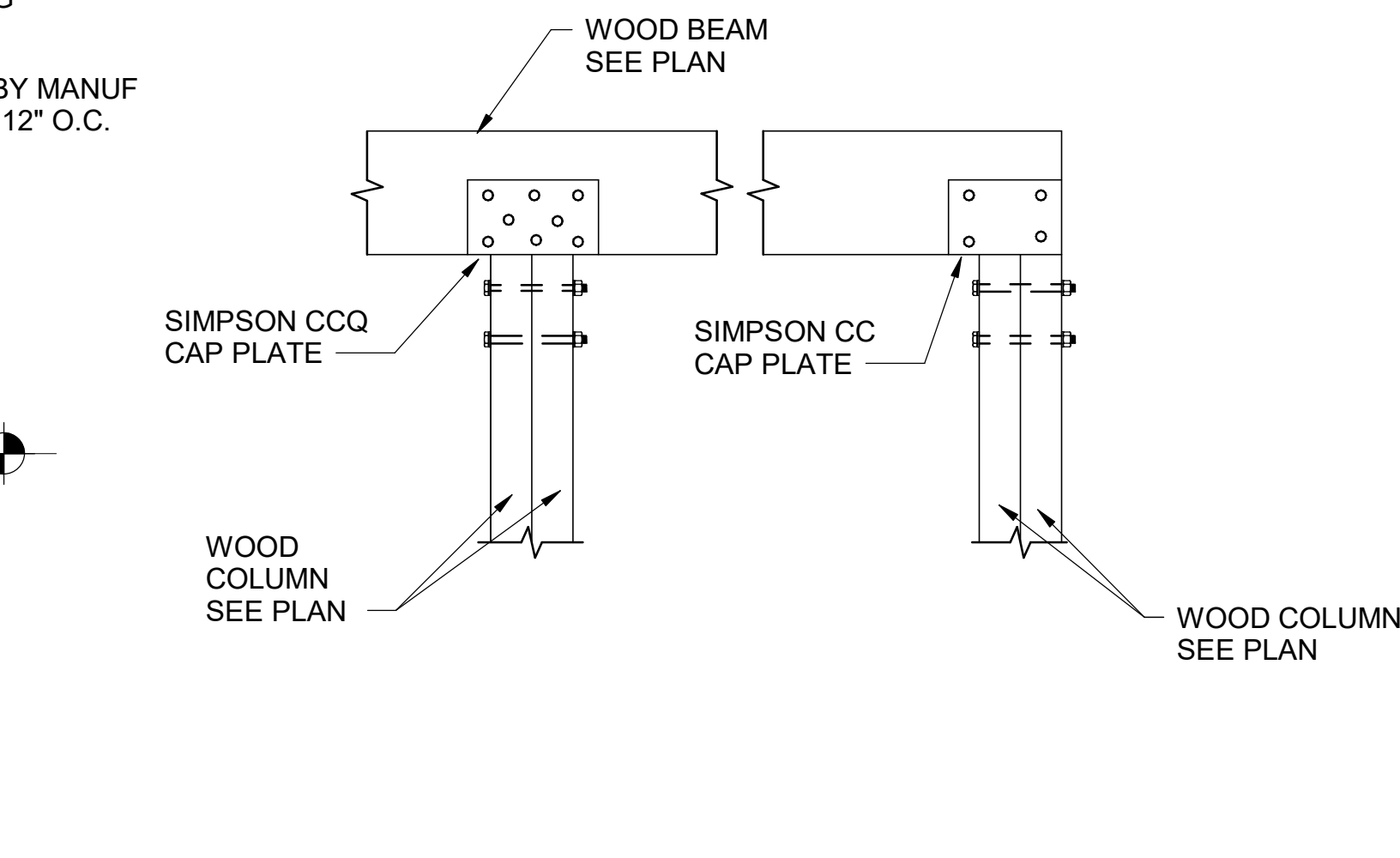
SCALE: 1" = 1'-0"

**A1 TRUSS BEARING AT EXT. WALL**

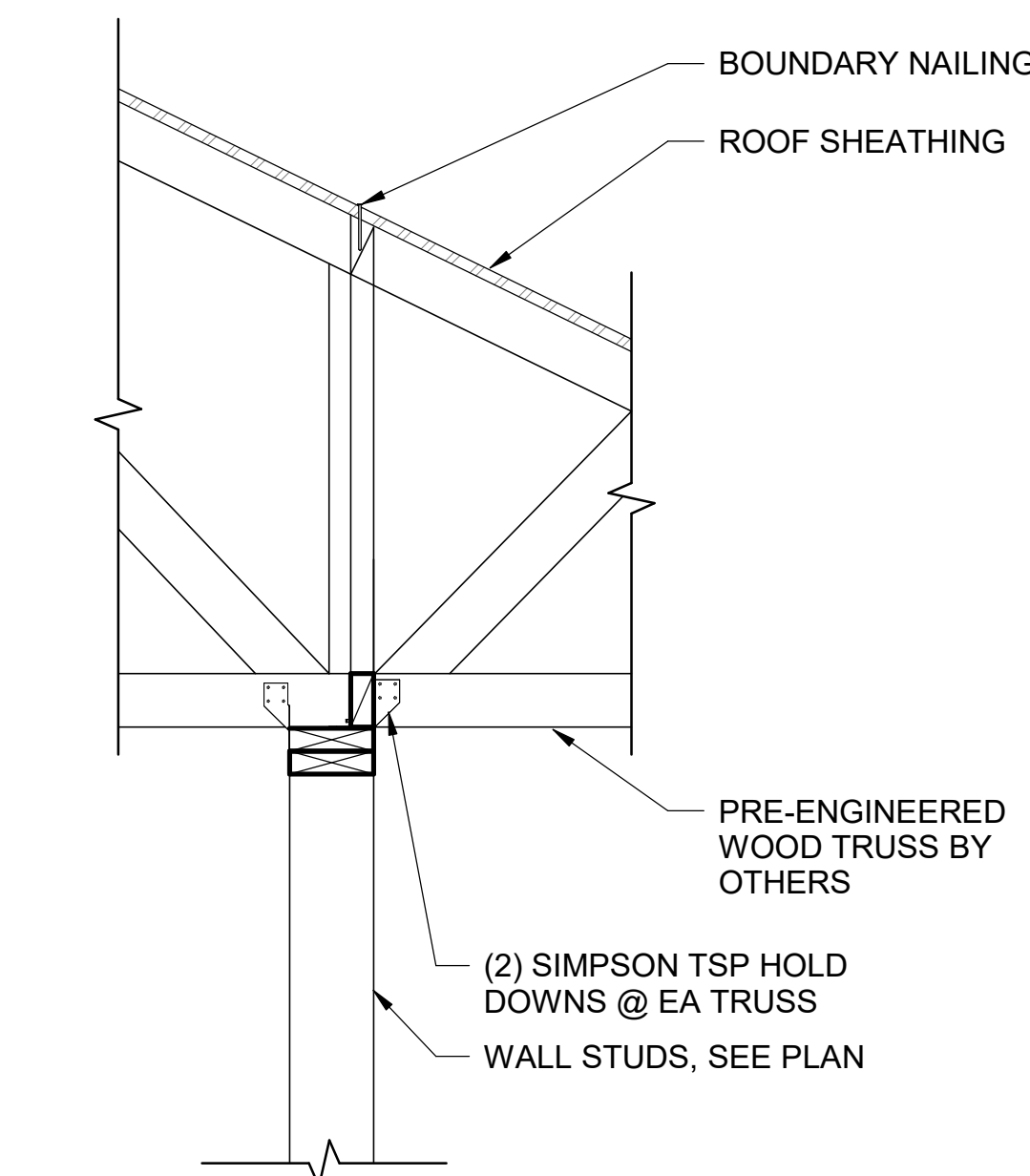
SCALE: N.T.S.

**A2 TRUSS BEARING AT EXT. BEAM**

N.T.S.

**A3 AT WOOD BEAM SUPPORT AT WOOD COLUMN**

N.T.S.

**A4 TRUSS BEARING AT INTERIOR WALL**

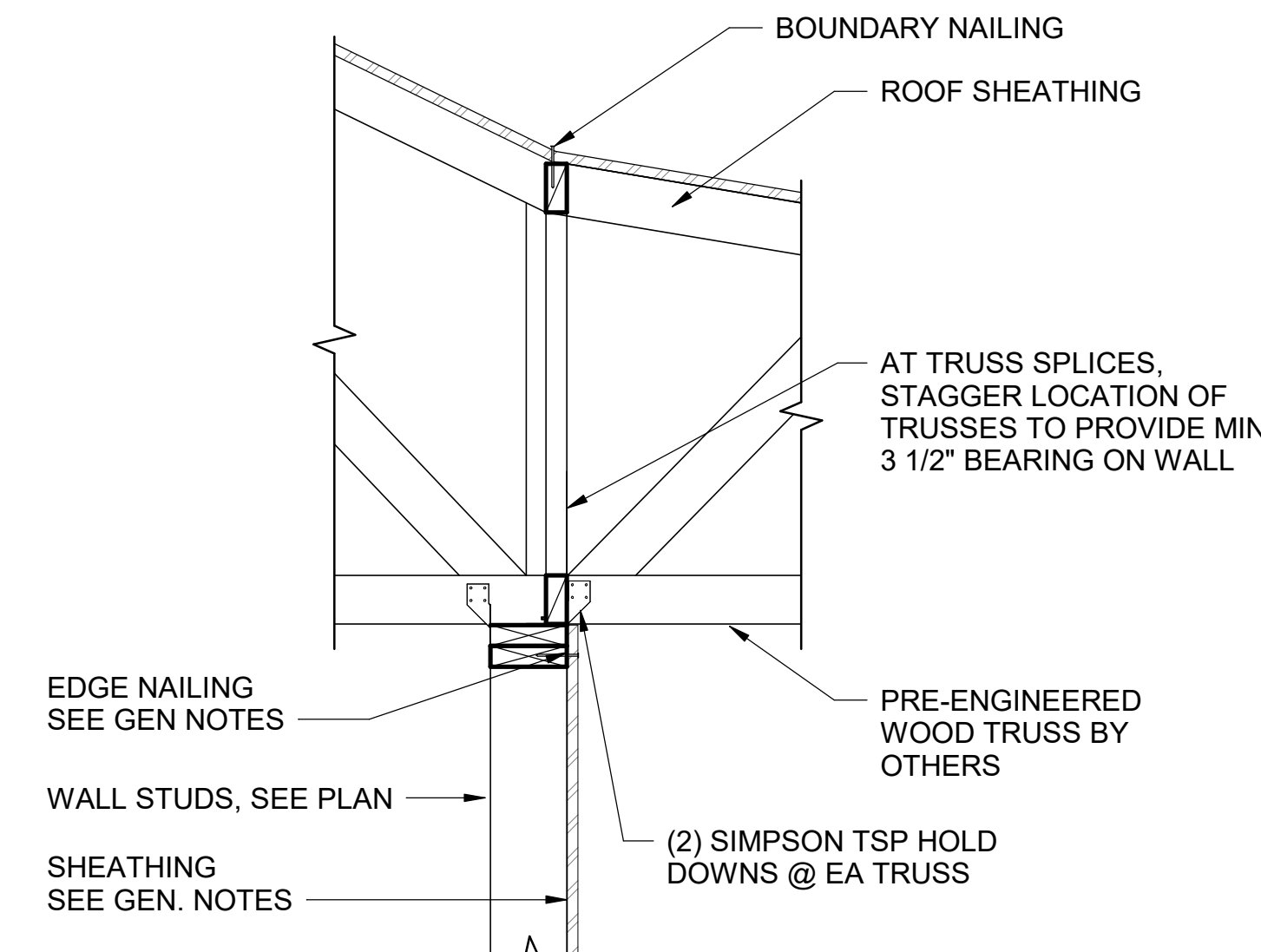
N.T.S.

**D2 SECTION THRU STEEL POST**

SCALE: 1" = 1'-0"

**C4 TRUSS BEARING @ SHEAR WALL**

SCALE: 1" = 1'-0"

**C4 TRUSS BEARING @ SHEAR WALL**

SCALE: 1" = 1'-0"

**POND**3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond &amp; Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond &amp; Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish &amp; Wildlife Services

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge -  
BunkhouseLA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: D. SKULLY  
DRAWN BY: D. SKULLY  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

ROOF FRAMING  
SECTIONS

SHEET NUMBER

**S-351**ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



0      2'      4'      8'

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



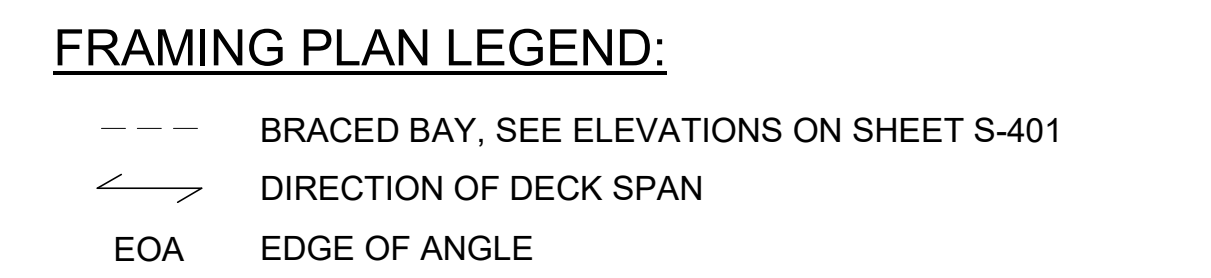
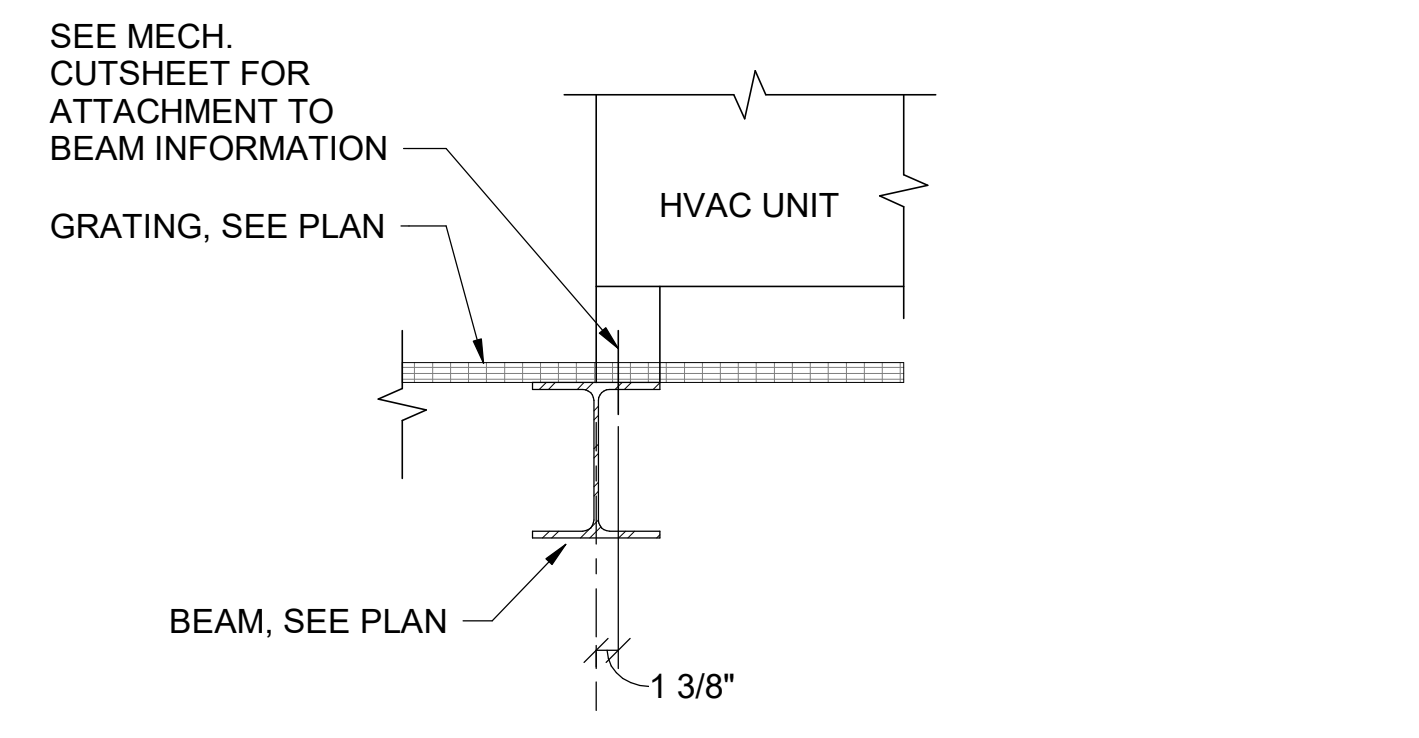


Diagram illustrating the elevation view of a duct and unit assembly. The components and dimensions shown are:

- DUCT, SEE MECH. DWGS
- UNIT, SEE MECH. DWGS
- 2" GAP
- 7"
- 3/16" END PLATE
- GALV L6x6 E.S. OF DUCT
- UNISTRUT P1011 STUB POST
- BEAM BEYOND, SEE PLAN
- BEAM, SEE PLAN
- COORD. HEIGHT WITH MECH. UNIT
- SEE SECTION A4/S-402 FOR ADD'L INFORMATION

**B4** SECTION AT DUCT SUPPORT AT UNIT  
N.T.S.



**A4** SECTION AT UNIT ATTACHMENT TO BEAM  
N.T.S.





Cameron Prairie  
National Wildlife  
Refuge -  
Bunkhouse

DESIGNED BY: D. SKULLY  
DRAWN BY: D. SKULLY  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C.CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

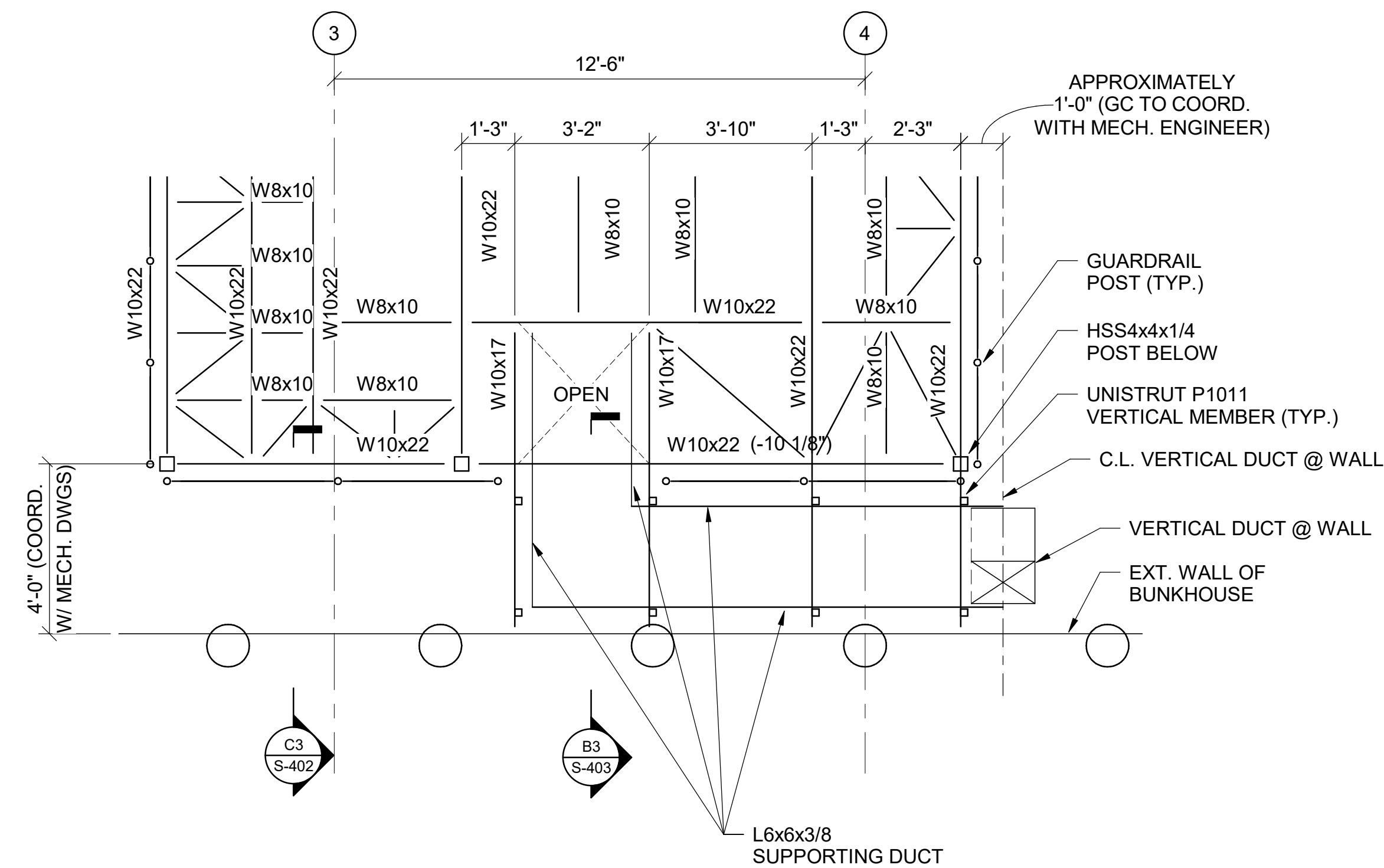
**SHEET TITLE**

### ELEVATED MECH. PLATFORM FRAMING DETAILS

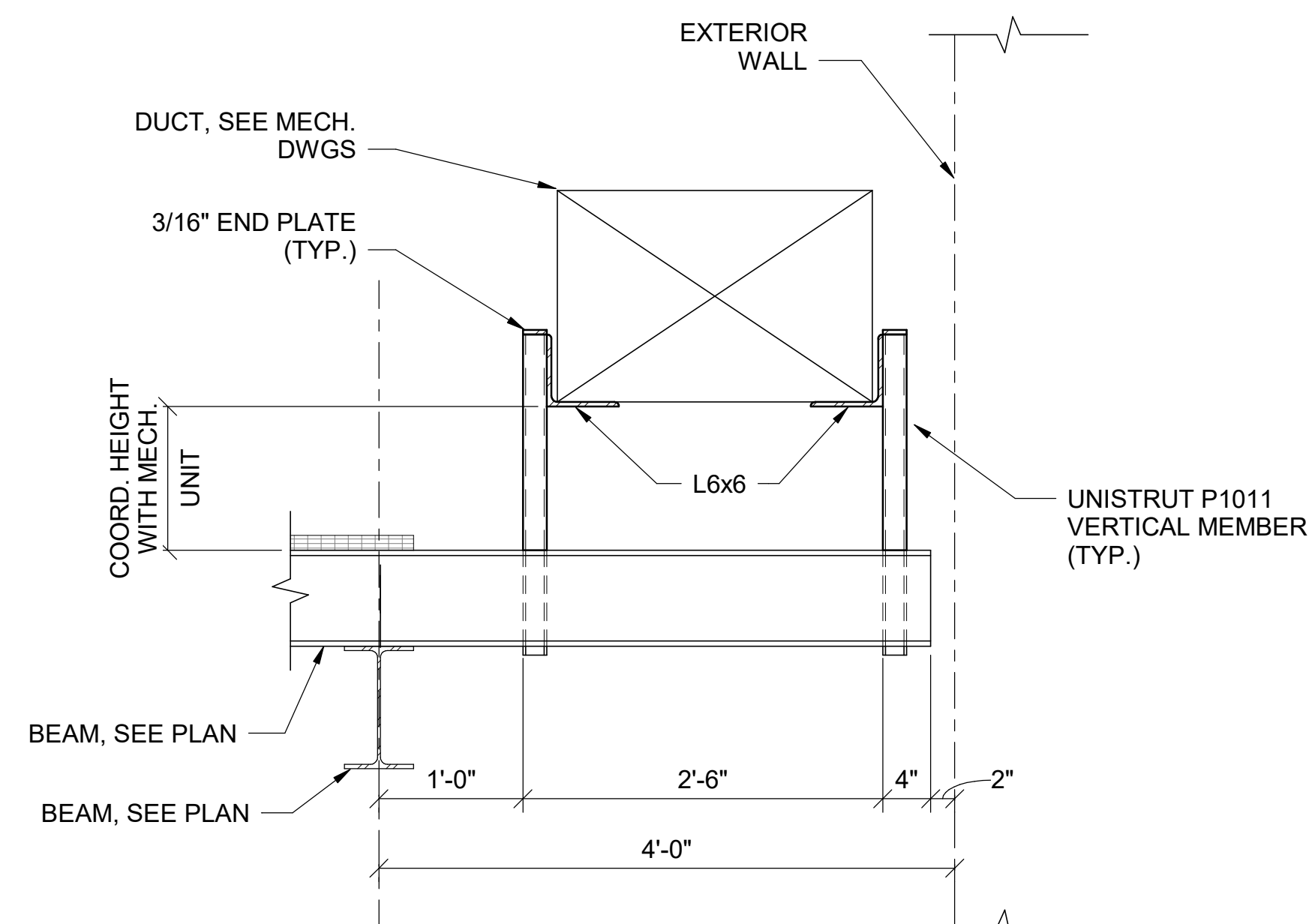
HEET NUMBER

S-403

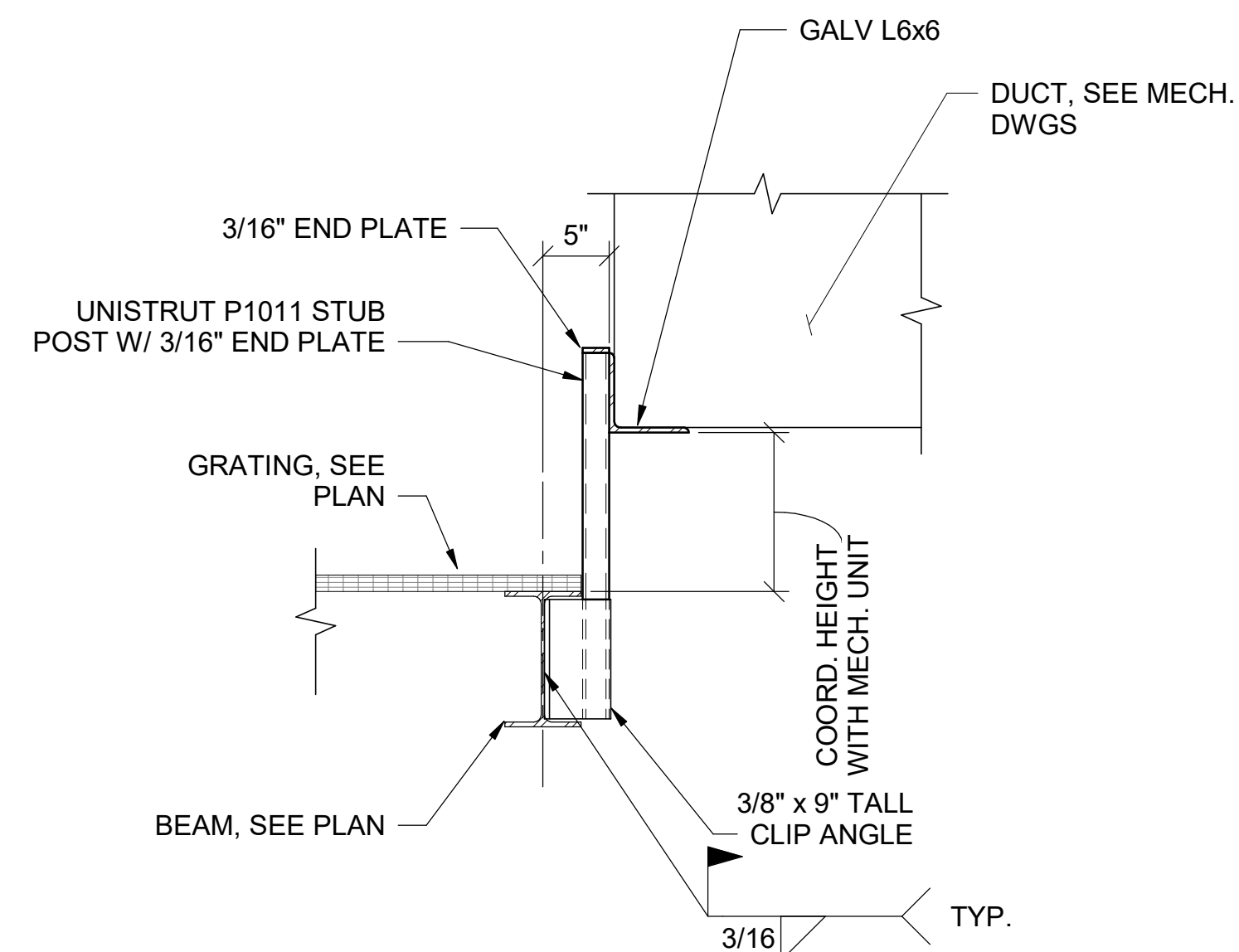
ORIGINAL SHEET SIZE:  
24" X 36"



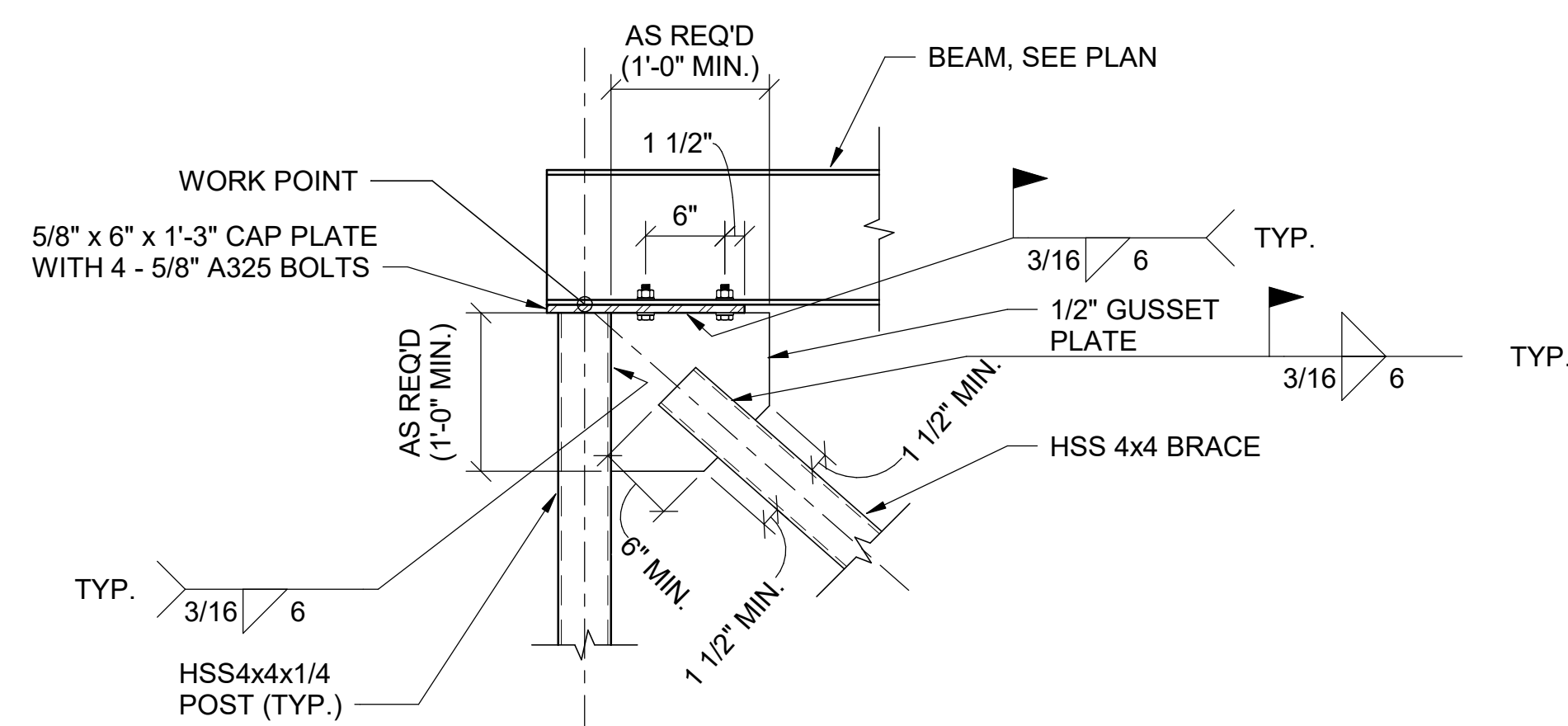
**B1** PARTIAL PLAN OF PLATFORM - DUCT SUPPORT  
SCALE: 3/8" = 1'-0"



**B3** SECTION THRU DUCT SUPPORT  
N.T.S.

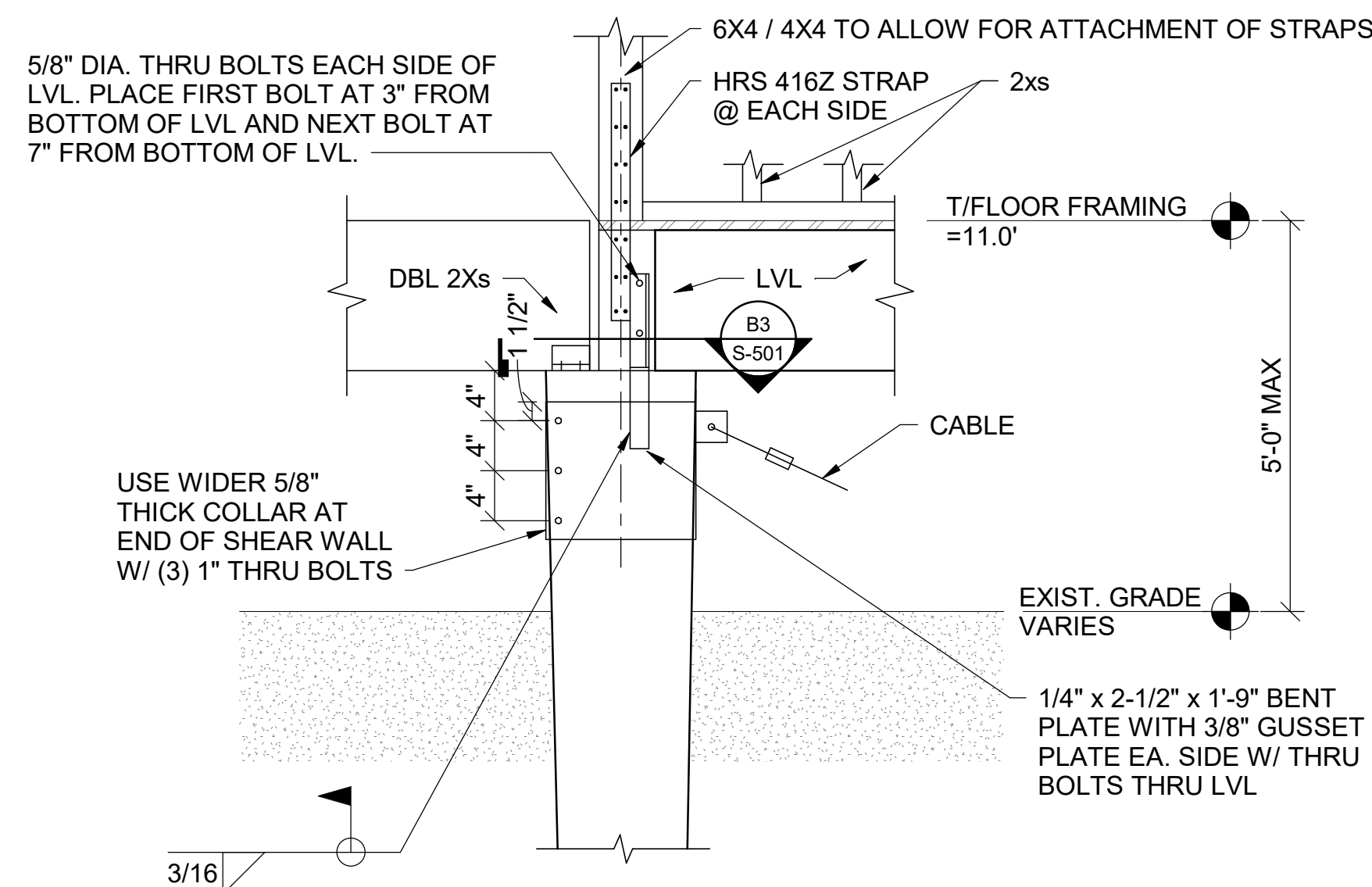


**A1** SECTION THRU DUCT SUPPORT

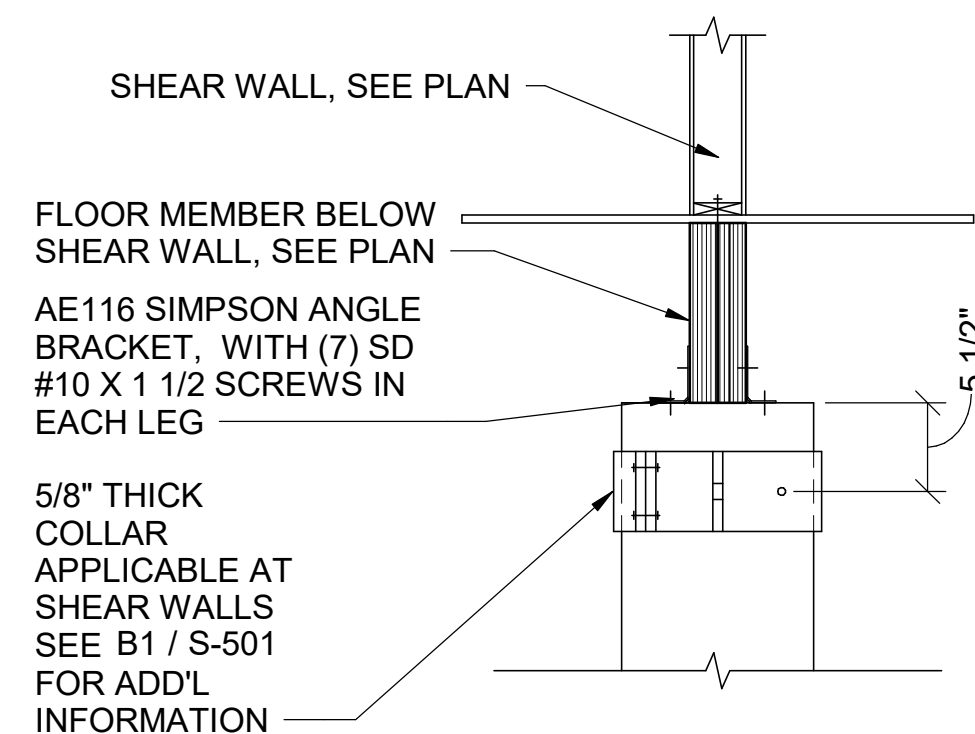


**A2** VERTICAL BRACING DETAIL  
N.T.S

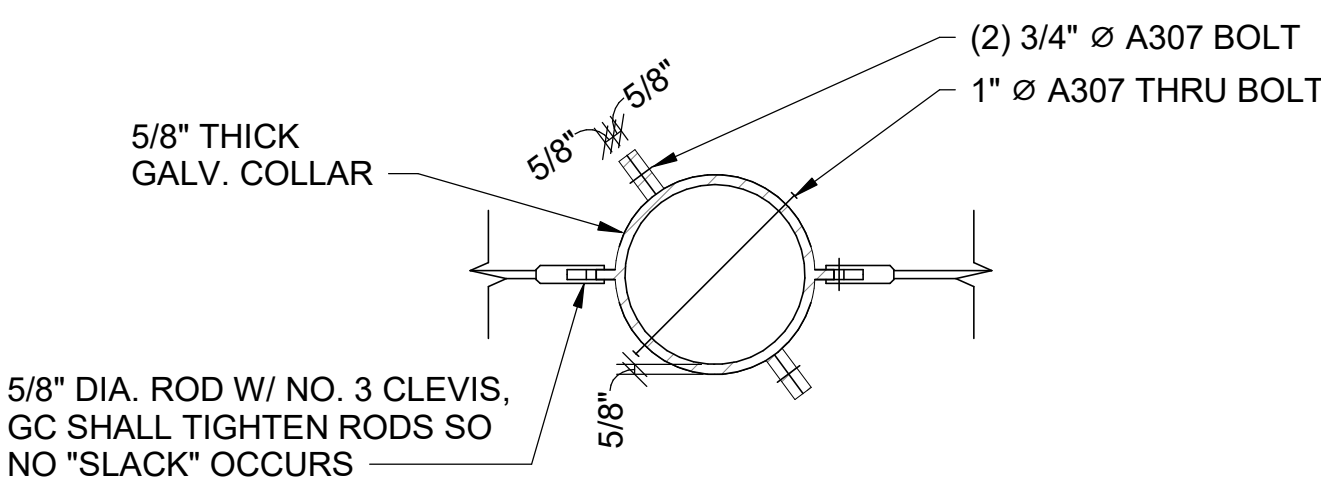




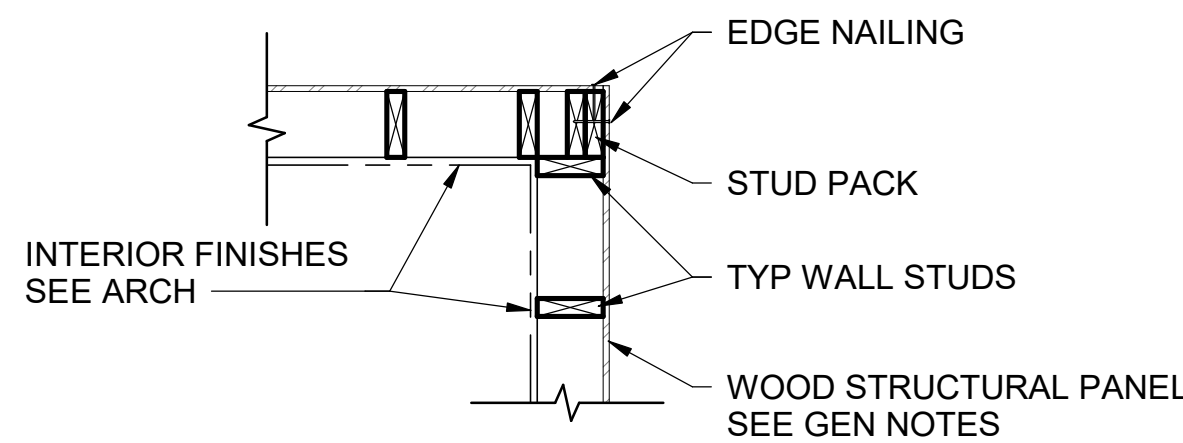
**C1** SECTION @ END OF SHEAR WALL  
SCALE: 1" = 1'-0"



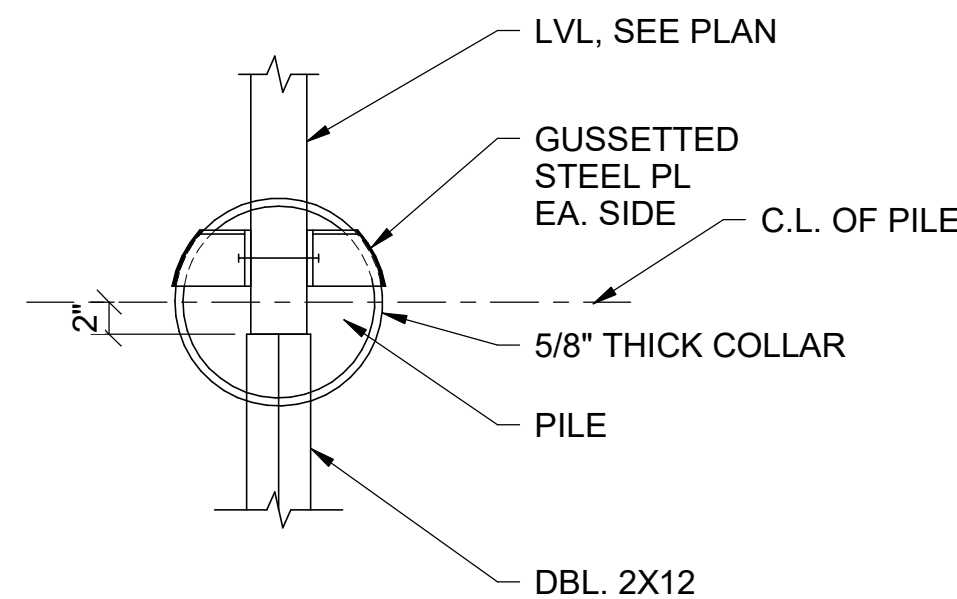
**C2** SHEAR WALL INTERMEDIATE ATTACHMENT  
SCALE: 1" = 1'-0"



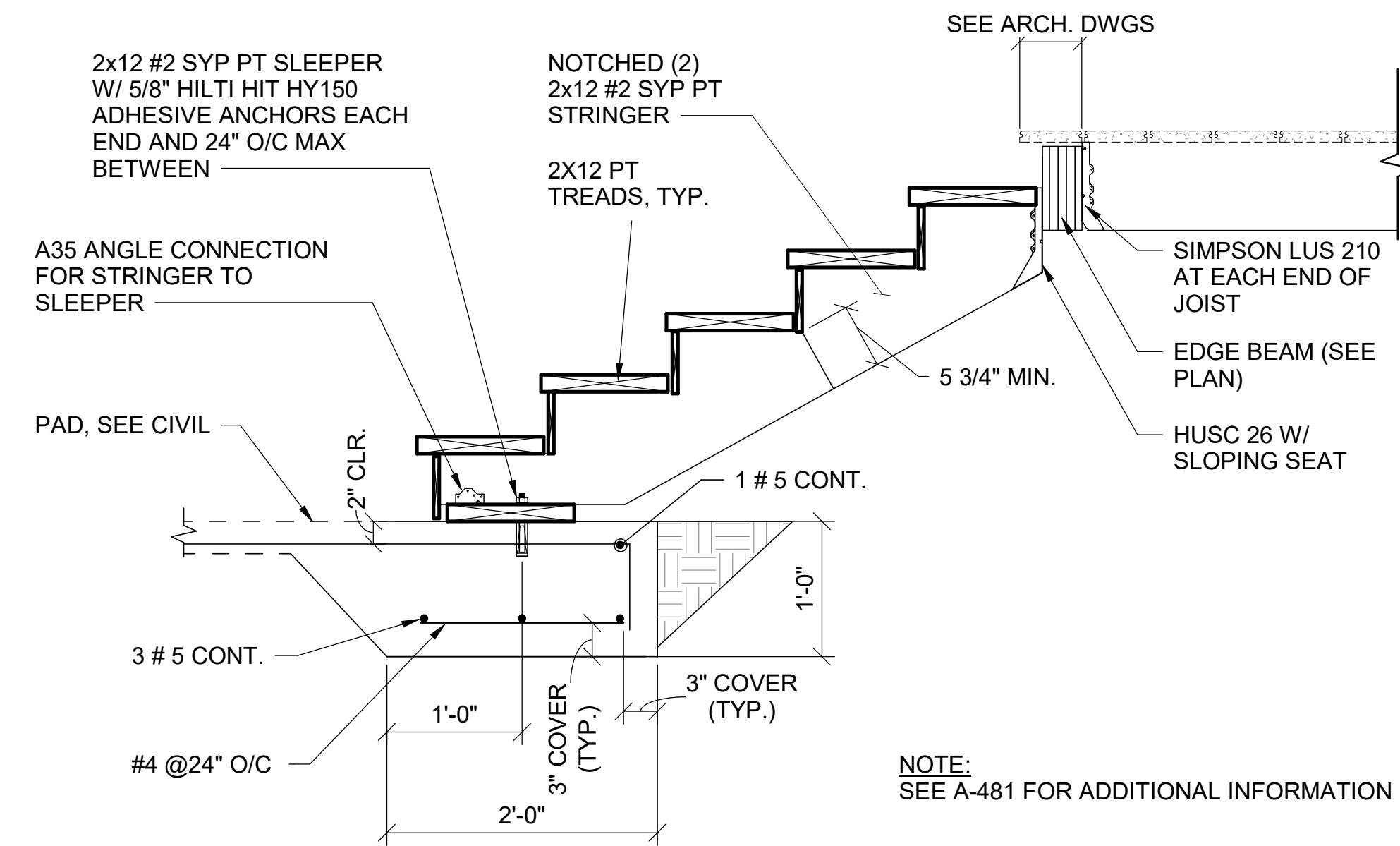
**B1** SECTION THRU PILE BRACKET  
SCALE: 1" = 1'-0"



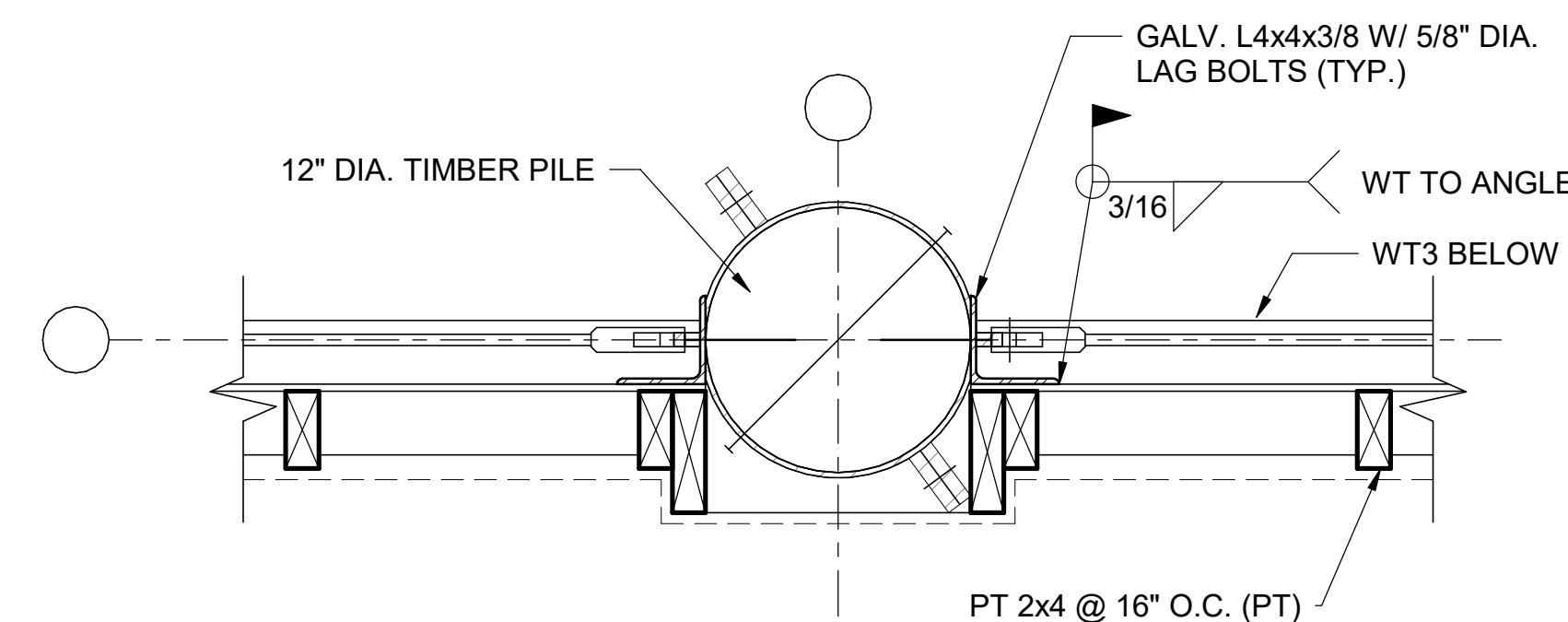
**B2** INTERSECTING SHEAR WALLS  
SCALE: 3/4" = 1'-0"



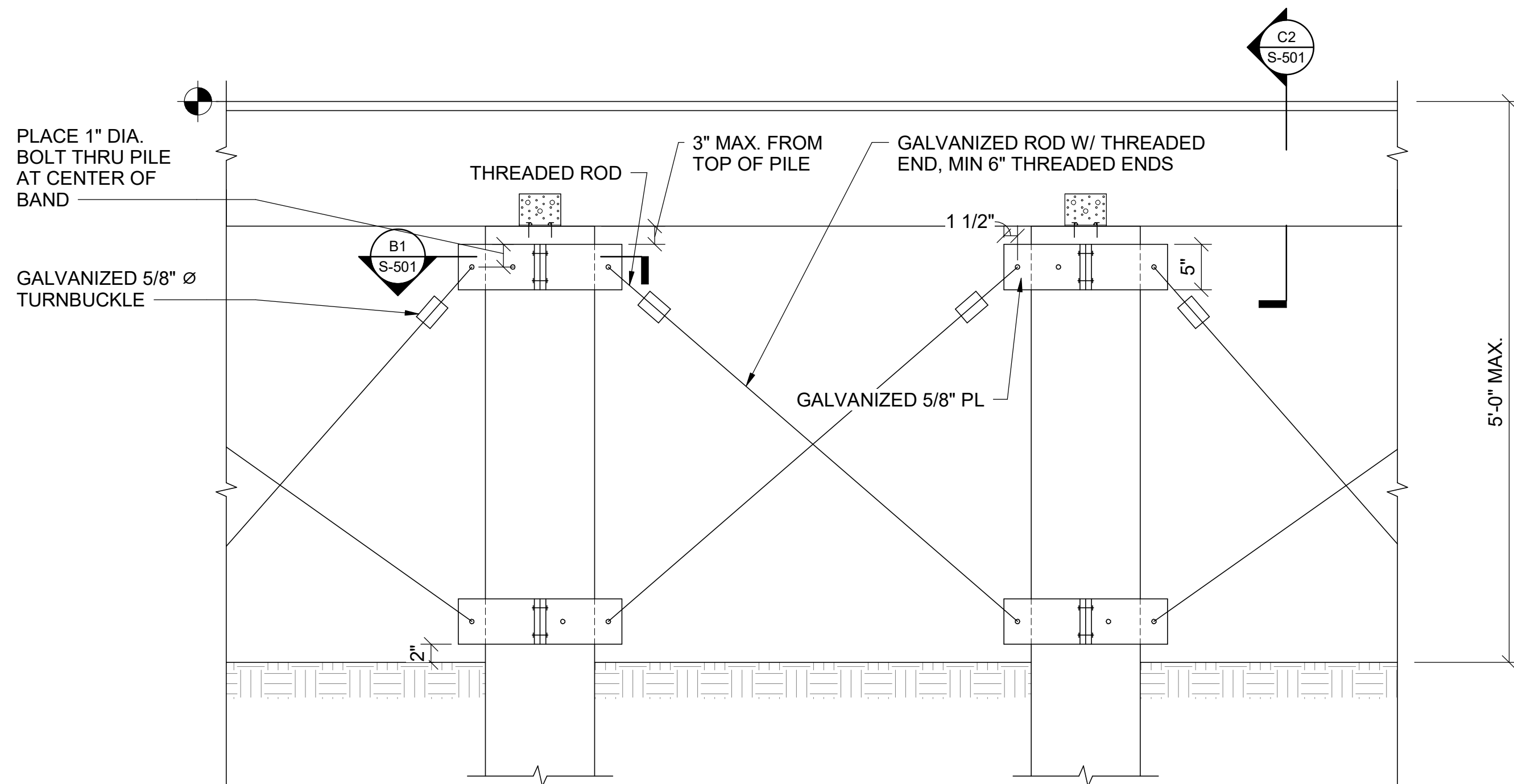
**B3** PLAN @ END OF SHEAR WALL  
SCALE: 1" = 1'-0"



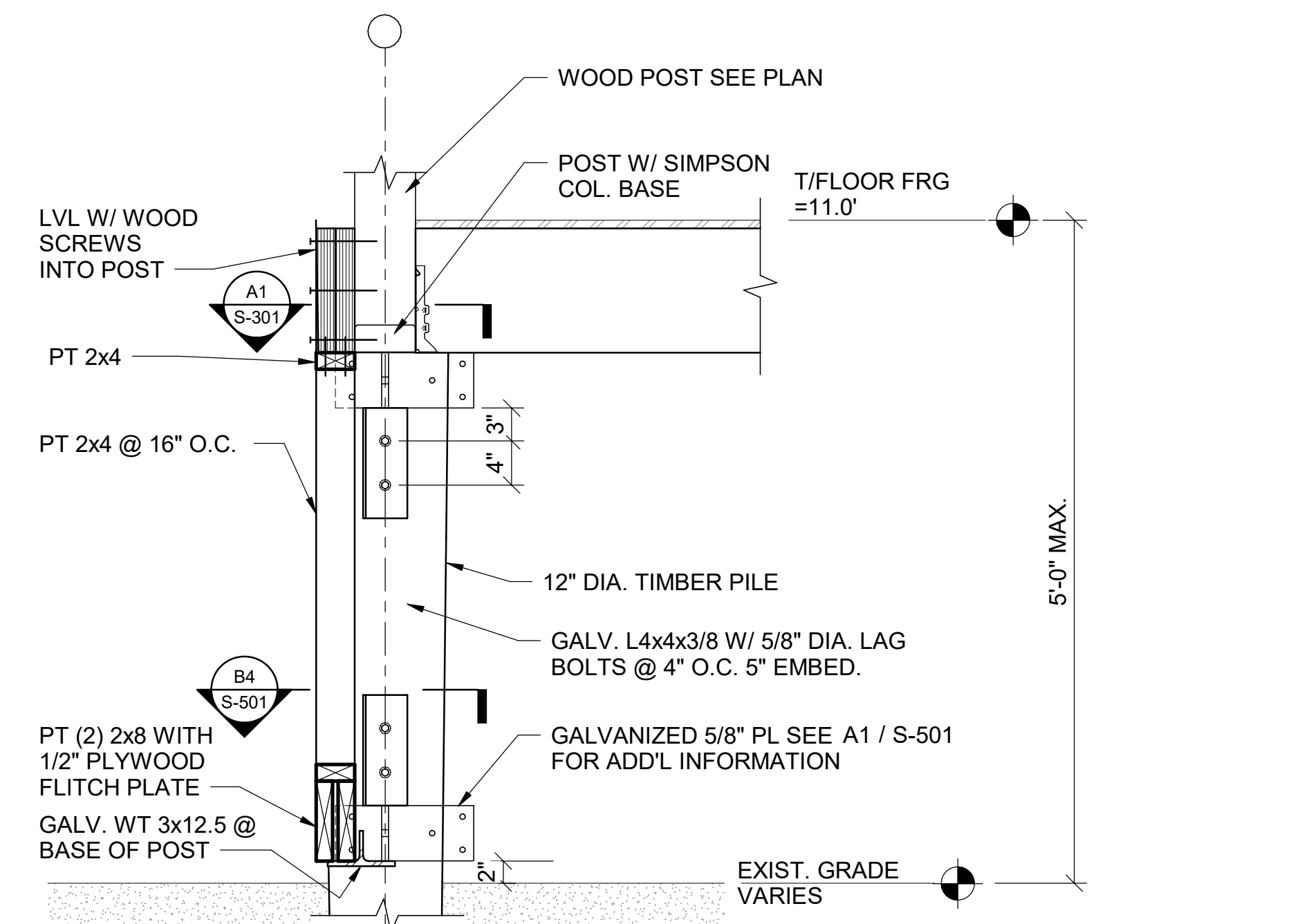
**C4** WOOD STAIRS TO CONCRETE FOOTING  
SCALE: 1" = 1'-0"



**B4** PLAN @ PILE AT PORCH SHEAR WALL  
SCALE: 1 1/2" = 1'-0"



**A1** SHEAR WALL PILE ELEVATION  
SCALE: 1" = 1'-0"



**A4** SECTION THRU POST SHEAR WALL @ PILE  
SCALE: 1" = 1'-0"

0 1' 2' 3'  
SCALE: 3/4" = 1'-0"



Cameron Prairie  
National Wildlife  
Refuge -  
Bunkhouse

DESIGNED BY: D. SKULLY  
DRAWN BY: D. SKULLY  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C.CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

STRUCTURAL  
DETAILS

**S-501**







1

2

3

4

5

D

C

B

A

USE SOLID WOOD POST AT EA. END OF SHEAR WALL (4" MIN. WIDTH FOR INSTALLATION STRAP), SEE SHEAR WALL SCHEDULE

HOLDOWN & ANCHOR EA END OF SHEARWALL SEE SHEAR WALL SCHEDULE

SEE C1/S-501 FOR ADDITIONAL INFORMATION AT END OF SHEAR WALLS

8d COMMON NAILS AT ALL PANEL EDGES U.N.O. SEE SCHEDULE ON THIS SHEET

SEE ELEV. A1/S-501 FOR ADDITIONAL INFORMATION

8d COMMON NAILS AT 12" O.C. AT INTERMEDIATE LOCATIONS, TYP

OMIT DIAGONAL BRACING AT EXTERIOR DUCTWORK - SEE MECH. DWGS FOR LOCATION

TRUSS BLOCKING BETWEEN ROOF TRUSSES FOR LIMITS OF SHEARWALL

2x BLOCKING REQ'D AT ALL EDGES

NOTES:

1. WOOD PANEL SIDE OF SHEAR WALL SHOWN, FASTEN GYPSUM BOARD ON OPPOSITE (INTERIOR) SIDE OF WALL STUDS w/ 5d COOLER (OR WALLBOARD 0.120") NAILS AT 7" O.C. SEE S-002 FOR SHEATHING INFORMATION

C1 NAILING PATTERN AT EXTERIOR SHEAR WALLS

N.T.S

C4 SHEAR WALL PLAN

SCALE: 1/16" = 1'-0"

SHEAR WALL SCHEDULE

MARK	SHEATHING THICKNESS	ONE SIDED OR BOTH SIDES?	NAILING PATTERN @ PANEL EDGES	HOLD DOWN	NO. OF STUDS FOR POST @ HOLDDOWN	BLOCKED EDGES?	SILL PLATE ATTACHMENT
SW1	1/2" PLYWOOD	ONE SIDED	8d NAILS @ 3" O.C.	SIMPSON HRS 416Z STRAPS AND 1/4" x 2-1/2" x 1'-9" BENT PLATE WITH 3/8" GUSSET PLATE (SEE C1/S-501 FOR ADDITIONAL INFO.)	3-2x6	YES	Ø1/2" LAG BOLT X 6" LONG @ 16" O.C.
SW2	1/2" GYPSUM WALLBOARD	BOTH SIDES	No. 12 SCREWS AT 3" O.C.	SIMPSON HRS 416Z STRAPS AND 1/4" x 2-1/2" x 1'-9" BENT PLATE WITH 3/8" GUSSET PLATE (SEE C1/S-501 FOR ADDITIONAL INFO.)	3-2x6	YES	Ø1/2" LAG BOLT X 6" LONG @ 16" O.C.

JOIST HANGER SCHEDULE

JOIST SIZE	HANGER		CONCEALED FLANGES
	FACE-MOUNT	TOP-HUNG	
(2) 2x12	LU28	LB28	LUC26
2x10	LU210	JB210A	LUC210
2x12	LU210	JB212A	LUC210
(2) 2x6	N/A	N/A	HUC26-2
(2) 2x8	N/A	N/A	HUC26-2
11 7/8" RED-I45	N/A	BA1.81/11.88	N/A
11 7/8" RED-I90	N/A	BA3.56/11.88	N/A
(2) 11 7/8" RED-I90	N/A	BA7.12/11.88	N/A

- NOTES:
- HANGER NAMES ARE BASED ON SIMPSON STRONG TIE PRODUCT LINE. SUBMIT SUBSTITUTIONS TO E.O.R. FOR APPROVAL.
  - HANGERS LISTED IN TABLE ARE TO BE USED U.N.O. IN DETAILS.

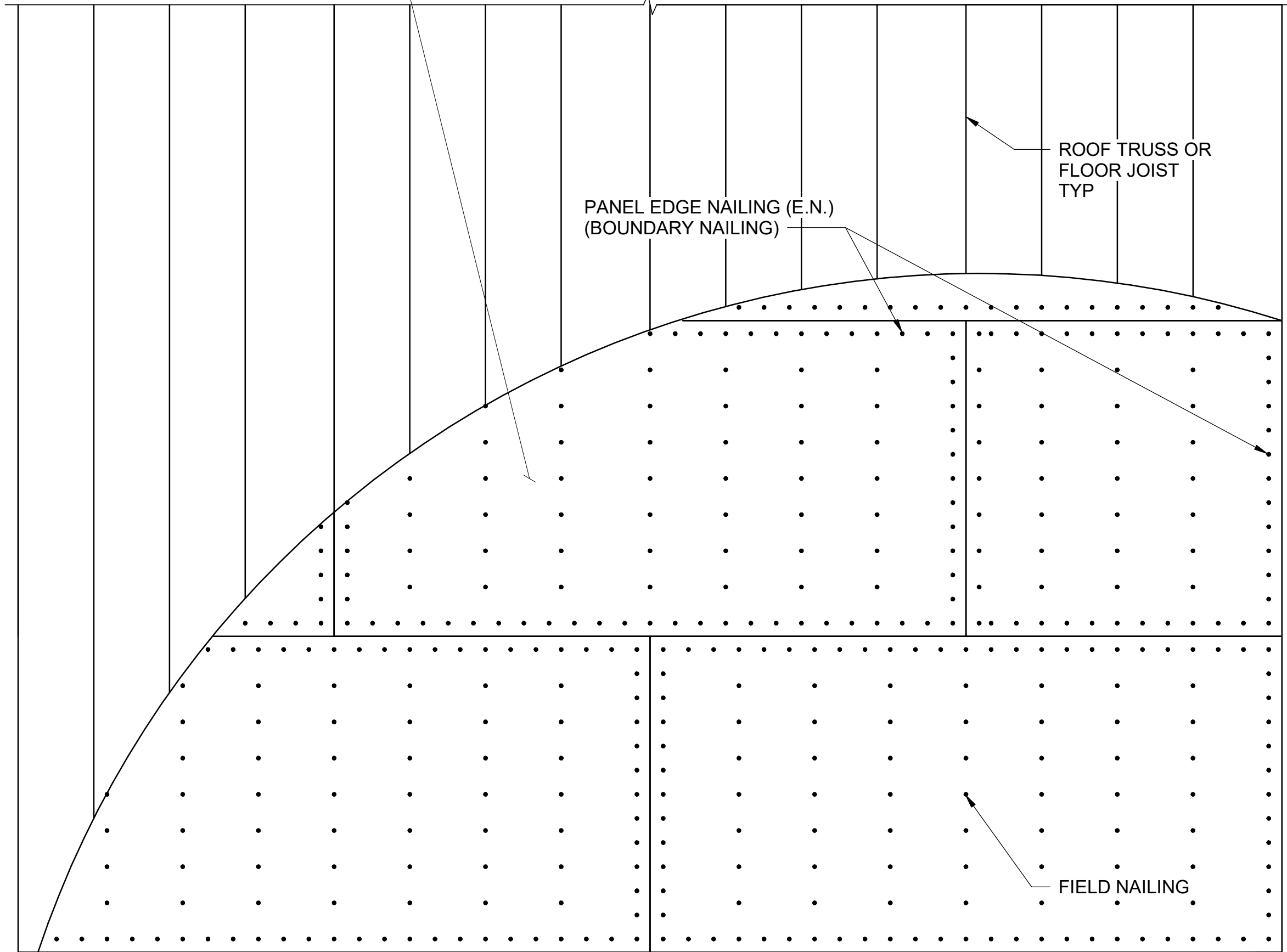
HEADER SCHEDULE

CLEAR OPENING	2x4 WALLS		2x6 WALLS	
	MINIMUM HEADER	MINIMUM JAMB	MINIMUM HEADER	MINIMUM JAMB
WIDTH < 4'-0"	(2) 2x8 WITH 1/2" THICK PLYWOOD FLITCH PLATE	(2) 2x4	(3) 2X8 WITH (2) 1/2" THICK PLYWOOD FLITCH PLATES	(2) 2x6

NOTES:

- HEADER SIZES NOTED ARE THE MINIMUM SIZES TO BE USED U.N.O. PLYWOOD SHALL BE ADDED BETWEEN PLIES SO THE OVERALL WIDTH HEADER MATCHES THE WALL STUD DEPTH. PLIES SHALL BE NAILED PER THE FASTENING SCHEDULE on S-602.
- 

SEE GENERAL NOTE I FOR ADDITIONAL NAILING AND SHEATHING INFORMATION.



A3 TYPICAL DIAPHRAGM NAILING

N.T.S



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Services

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge -  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: D. SKULLY  
DRAWN BY: D. SKULLY  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C.CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

SCHEDULES

SHEET NUMBER

S-601

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



2/10/2025 3:03:20 PM BIM 360//1220834 Cameron NWR/1220834\_Cameron NWR\_Bunkhouse\_STRC\_v21.rvt

D

C

B

A

FASTENING SCHEDULE		
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
ROOF		
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	4-8d BOX (2 1/2" x 0.113"); OR 3-8d COMMON (2 1/2" x 0.131") ; OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL
BLOCKING BETWEEN RAFTERS OR TRUSSES NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2-8d COMMON (2 1/2" x 0.131") ; OR 2-3" x 0.131" NAILS; OR 2-3" 14 GAGE STAPLES	EACH END, TOENAIL
	2-16d COMMON (3 1/2" x 0.162") ; OR 3-3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES	END NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER	16d COMMON (3 1/2" x 0.162") @ 6" O.C.; OR 3" x 0.131" NAILS @ 6" O.C.; OR 3" 14 GAGE STAPLES @ 6" O.C.	FACE NAIL
2. RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2308.7.5, TABLE 2308.7.5)	3-10d COMMON (3" x 0.148") ; OR 3-16d BOX (3 1/2" x 0.135"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL <sup>(a)</sup>
WALL		
3. STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2" x 0.162")	24" O.C. FACE NAIL
	10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL
4. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d COMMON (3 1/2" x 0.162")	16" O.C. FACE NAIL
	16d BOX (3 1/2" x 0.135") 3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
5. BUILT-UP HEADER (2" TO 2" HEADER)	16d COMMON (3 1/2" x 0.162")	16" O.C. FACE NAIL
	16d BOX (3 1/2" x 0.135")	12" O.C. FACE NAIL
6. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2" x 0.131") 4-10d BOX (3" x 0.128") 5-8d BOX (2 1/2" x 0.113")	TOENAIL
7. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2" x 0.162")	16" O.C. FACE NAIL
	10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
8. TOP PLATE TO TOP PLATE, AT END JOINTS	8-16d COMMON (3 1/2" x 0.162"); OR 12-16d BOX (3 1/2" x 0.135"); OR 12-10d BOX (3" x 0.128"); OR 12-3" x 0.131" NAILS; OR 12-3" 14 GAGE STAPLES, 7/16" CROWN	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
9. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING ( NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2" x 0.162")	16" O.C. FACE NAIL
	16d BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
10. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	2-16d COMMON (3 1/2" x 0.162"); OR 3-16d BOX (3 1/2" x 0.135"); OR 4-3" x 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL
11. STUD TO TOP OR BOTTOM PLATE	3-16d BOX (3 1/2" x 0.135"); OR 4-8d COMMON (2 1/2" x 0.131") ; OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
	2-16d COMMON (3 1/2" x 0.162"); OR 3-16d BOX (3 1/2" x 0.135") OR: 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
12. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3 1/2" x 0.162") 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
13. 1" BRACE TO EACH STUD AND PLATE	2-8d COMMON (2 1/2" x 0.131") ; OR 2-10d BOX (3" x 0.128"); OR 2-3" x 0.131" NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL

(a) WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

FASTENING SCHEDULE		
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
FLOOR		
14. JOIST TO SILL, TOP PLATE, OR GIRDER	4-8d BOX ( 2 1/2" x 0.113") OR; 3-8d COMMON (2 1/2" x 0.131") ; OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
15. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d BOX (2 1/2" x 0.131")	4" O.C., TOENAIL
	8d COMMON (2 1/2" x 0.131") ; OR 10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	6" O.C., TOENAIL
16. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20d COMMON (4" x 0.192"); OR	32" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	10d BOX (3" x 0.128"); OR 3" x 0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	AND: 2-20d COMMON (4" x 0.192") ; OR 3-10d BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	ENDS AND AT EACH SPLICE, FACE NAIL
17. LEDGER STRIP SUPPORTING JOISTS TO RAFTERS	3-16d COMMON (3 1/2" x 0.162") ; OR 4-16d BOX (3 1/2" x 0.135"); OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST OR RAFTER, FACE NAIL
18. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON (3 1/2" x 0.162") ; OR 4-10d BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	ENDNAIL
19. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2-8d COMMON (2 1/2" x 0.131") ; OR 2-10d BOX (3" x 0.128"); OR 2-3" x 0.131" NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL

FASTENING SCHEDULE					
DESCRIPTION OF BUILDING ELEMENTS		NUMBER AND TYPE OF FASTENER		SPACING AND LOCATION	
				EDGES (INCHES)	INTERMEDIATE SUPPORTS (INCHES)
WOOD STRUCTURAL PANELS (WSP), SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING <sup>(a)</sup>					
20.	3/8" - 1/2"	10d COMMON OR DEFORMED (2 1/2" x 0.131") ; OR 2 3/8" x 0.113" NAIL (SUBFLOOR AND WALL)		6	12
		10d COMMON OR DEFORMED (2 1/2" x 0.131" x 0.281" HEAD) (ROOF) OR RSR5-01 (2 3/8" x 0.131") NAIL (ROOF) <sup>(b)</sup>		6	12
		1 3/4" 16 GAGE STAPLE, 7/16" CROWN (SUBFLOOR AND WALL)		4	8
		2 3/8" x 0.113" x 0.266" HEAD NAIL (ROOF)		3 <sup>(c)</sup>	3 <sup>(c)</sup>
		1 3/4" 16 GAGE STAPLE, 7/16" CROWN (ROOF)		3 <sup>(c)</sup>	3 <sup>(c)</sup>
21.	19/32" - 3/4"	10d COMMON (2 1/2" x 0.131"); (SUBFLOOR AND WALL)		6	12
		10d COMMON OR DEFORMED (2 1/2" x 0.131" x 0.281" HEAD) (ROOF) OR RSR5-01 (2 3/8" x 0.113") NAIL (ROOF) <sup>(b)</sup>		6 <sup>(d)</sup>	6 <sup>(d)</sup>
		2 3/8" x 0.113" x 0.266" HEAD NAIL; OR 2" 16 GAGE STAPLE, 7/16" CROWN		4	8
WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING					
22.	3/4" AND LESS	10d COMMON (2 1/2" x 0.131"); OR DEFORMED (2" x 0.113"); OR DEFORMED (2 1/2" x 0.120"0		6	12

(a) NAILS SPACED AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.  
(b) RSR5-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667.  
(c) FASTENING IS ONLY PERMITTED WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN OR EQUAL TO 100 MPH.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/IAOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Services

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge -  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: D. SKULLY  
DRAWN BY: D. SKULLY  
CHECKED BY: W. HAYNES  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

FASTENING  
SCHEDULES

SHEET NUMBER

S-602

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION

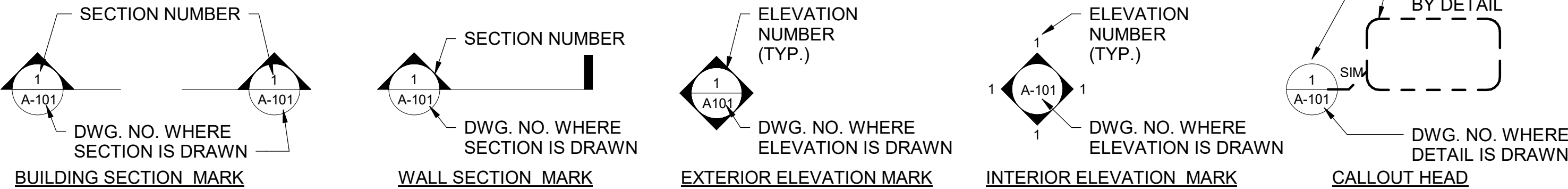


2/10/2025 11:52:35 AM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_ARCH\_V21.rvt

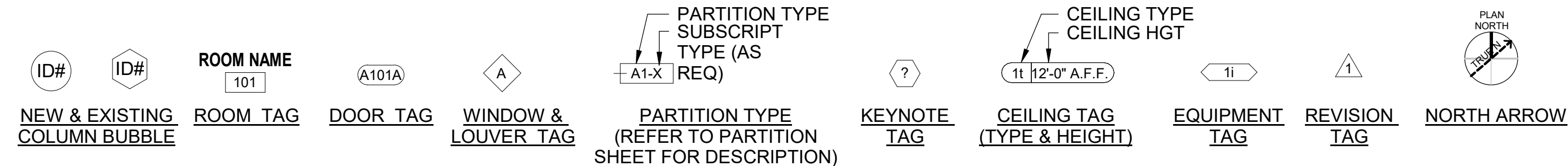
ARCHITECTURAL ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR	FDN	FOUNDATION	PL	PLATE
ADAAG	AMERICAN W/ DISABILITIES ACCESSIBILITY GUIDELINES	GA	GAGE / GAUGE	PLMB	PLUMBING
ADJ	ADJUST / ADJUSTABLE	GALV	GALVANIZED	PLYWD.	PLYWOOD
ACT	ACOUSTICAL CEILING TILE	GFCI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED	PT	PORCELAIN TILE
ANOD	ANODIZED		GOVERNMENT FURNISHED	LBS. OR #	POUNDS
AL / ALUM.	ALUMINUM	GFGI	GOVERNMENT INSTALLED	PSF	POUNDS / SQUARE FOOT
APPROX	APPROXIMATE	GL	GLASS / GLAZING	PSI	POUNDS / SQUARE INCH
AR/ARCH	ARCHITECTURAL	GOVT	GOVERNMENT	PEMB	PRE-ENGINEERED
AT / FP	ANTI TERRORISM / FORCE PROTECTION	GYP	GYPSUM	PRE-FAB	METAL BUILDING
AVG	AVERAGE	GOVB	GYPSUM WALL BOARD	Q.T.	PREFABRICATED
A / V	AUDIO/VISUAL	HDW	GYPSUM WALL BOARD	RAF	QUARRY TILE
BLKG	BLOCKING	HGT	HARDWARE	RCPT	RAISED ACCESS FLOOR
BD	BOARD	HM	HEIGHT	REF	RECEPTIONIST / RECEPTION
BTM	BOTTOM	HORIZ	HOLLOW METAL	REF	REFERENCE
B / O	BOTTOM OF	HB	HORIZONTAL	REINF	REINFORCEMENT / REINFORCED
BLDG	BUILDING	HVAC	HOSE BIBB	REQ'D	REQUIRED
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	IMP	HEATING VENTILATION & AIR CONDITIONING	REV	REVISIONS / REVISED
CFMF	COLD FORMED	IN	INSULATED METAL PANEL	R / D	ROOF DRAIN
	METAL FRAMING	INT	INCH	RH	RIGHT HAND
CPT	CARPET	INSUL	INSULATION	RHR	RIGHT HAND REVERSE
CLG	CEILING	JAN	INTERIOR	RM	ROOM
CLG HT	CEILING HEIGHT	JC	JANITOR	RO	ROUGH OPENING
CTR	CENTER	JT	JANITOR'S CLOSET	RB	RUBBER BASE
¢	CENTER LINE	KP	JOINT	SG	SAFETY GLASS / GLAZING
CT	CERAMIC TILE		KICK PLATE	SC	SEALED CONCRETE
CLR	CLEAR	LAM	LAMINATE	SCHED	SCHEDULE
CO	CLEANOUT	LAV	LANDING	SECT	SECTION
COL	COLUMN	LGT	LAVATORY	SSK	SERVICE SINK
CONC	CONCRETE	LH	LEFT HAND	SIM	SIMILAR
CORR	CORRIDOR	LHR	LEFT HAND REVERSE	STC	SOUND TRANSMISSION CLASS
CMU	CONCRETE MASONRY UNIT	LGT	LENGTH	SPEC(S)	SPECIFICATION
CONF	CONFERENCE	LT	LIGHT	SFRM	SPRAYED FIRE RESISTIVE MATERIAL
CONST	CONSTRUCTION	LTG	LIGHTING	SQ	SQUARE
CONT	CONTINUOUS	LONG	LONGITUDINAL	ST	STAIN
CONTR	CONTRACTOR	LVR	LOUVER	S.S.	STAINLESS STEEL
CJ	CONTROL JOINT	L / V	LOW VOLTAGE	STD	STANDARD
CY	CUBIC YARD	MAS	MASONRY	STL	STEEL
DET	DETAIL	MO	MASONRY OPENING	STOR	STORAGE
DIA	DIAMETER	MGR	MANAGER	STR	STRUCTURAL
DIM	DIMENSION	MANUF	MANUFACTURER	SUSP	SUSPENDED
DISP	DISPENSER	MATL	MATERIAL	TELECOMM	TELECOMMUNICATIONS
DN	DOWN	MAX	MAXIMUM	TEL	TELEPHONE
DS	DOWNSPOUT	MECH	MECHANICAL	THK	THICK / THICKNESS
DESC	DESCRIPTION	MTL	METAL	TLT	TOILET
DWG	DRAWING	MWP	METAL WALL PANEL	T / O	TOP OF
EA	EACH	MB	MINI BLIND	TYP	TYPICAL
ELEC	ELECTRICAL OR ELECTRIC	MIN	MINIMUM	U.L.	UNDERWRITERS LABORATORIES
EL	ELEVATION	MIR	MIRROR	UNFIN	UNFINISHED
EW	ELECTRIC WATER COOLER	MISC	MISCELLANEOUS	UNFIN	UNFINISHED
EP	EPOXY PAINT	N.I.C.	NOT IN CONTRACT	VERT	VERTICAL
ENGR	ENGINEER	NO. (#)	NUMBER	VEST	VESTIBULE
EOS	EDGE OF SLAB	NTS	NOT TO SCALE	VCT	VINYL COMPOSITION TILE
EQUIP	EQUIPMENT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	VCB	VINYL COVE BASE
EQ	EQUAL		ON CENTER	WDT	WIDTH
EXIST	EXISTING	O.C.	OWNER FURNISHED	W /	WITH
EXP	EXPOSED	OFCI	CONTRACTOR INSTALLED	WC	WATER CLOSET
EJ	EXPANSION JOINT	OFGI	OWNER FURNISHED	WD	WOOD
EXP ST	EXPOSED TO STRUCTURE		GOVERNMENT INSTALLED	WDW	WINDOW
EXT	EXTERIOR	O.H.	OPPOSITE HAND	W / O	WITHOUT
FDC	FIRE DEPARTMENT CONNECTION	OPNG	OPENING	WRGB	WATER RESISTANT GYPSUM BOARD
FT	FEET	OPP	OPPOSITE	YD	YARD
FV	FIELD VERIFY	O.D.	OUTSIDE DIAMETER		
FIN	FINISH	OSHA	OCCUPATIONAL SAFETY AND HEALTH ACT		
FF	FINISHED FLOOR	OVHD / OH	OVERHEAD		
FE	FIRE EXTINGUISHER	O / D	OVERFLOW DRAIN		
FEC	FIRE EXTINGUISHER CABINET	PT / PNT	PAINT		
FP	FIRE PROTECTION	PR	PAIR		
FLR	FLOOR	PNL	PANEL		
FD	FLOOR DRAIN	PART	PARTITION		
F / O	FACE OF	PLAS	PLASTIC		
FTG	FOOTING	PLAM	PLASTIC LAMINATE		

SYMBOLS:



PLAN SYMBOLS:



ARCHITECTURAL GENERAL NOTES:

- THE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE DRAWINGS ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THE ENUMERATION OF PARTICULAR ITEMS OF WORK IN ONE PORTION OF THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUED TO EXCLUDE OTHER ITEMS NECESSARY OR IMPLIED THEREFROM.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE WORK SO THAT NO WORK SHALL BE LEFT IN AN UNFINISHED OR INCOMPLETE CONDITION.
- WORK SHALL CONFORM TO APPLICABLE INDUSTRY AND MANUFACTURER'S PUBLISHED STANDARDS FOR QUALITY OF MATERIALS AND WORKMANSHIP AS WELL AS REQUIREMENTS IN THE CONSTRUCTION DOCUMENTS. ANY CONFLICTING REQUIREMENTS OF THE SOURCES LISTED ABOVE SHALL BE BROUGHT TO THE CONTRACTING OFFICER'S ATTENTION PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL PROTECT EXISTING, IN-PLACE, AND NEW WORK.
- WORK NOTED "N.I.C." IS NOT MEANT TO BE PART OF THE CONSTRUCTION SCOPE OF WORK AGREEMENT.
- THE CONTRACTOR SHALL PAY FOR AND COORDINATE THE REMOVAL AND LEGAL DISPOSAL OF MATERIALS AND RUBBISH. ONCE ON SITE, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS THAT CORRESPOND TO THOSE SHOWN ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IN WRITING OF ANY DIFFERING CONDITIONS BEFORE COMMENCEMENT OF WORK.
- DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN, LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IN WRITING OF ANY DIFFERING CONDITIONS BEFORE COMMENCEMENT OF WORK.
- DIMENSIONS NOTED AS 'HOLD' SHALL NOT VARY BY MORE THAN 1/8" FROM SIDE TO SIDE OR FROM FRONT TO BACK, FINISHED SURFACE TO FINISHED SURFACE.
- WALL AND/OR CEILING ASSEMBLIES THAT ARE IDENTIFIED WITH A FIRE RESISTIVE RATING SHALL BE CONSTRUCTED AS DETAILED HEREIN.
- DIMENSIONS SHOWN ARE TO FACE OF STUD OR CMU (U.N.O.).
- THE CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH APPLICABLE CODES, ORDINANCES AND REGULATORY AGENCIES AND SHALL OBTAIN NECESSARY BUILDING AND FIRE PERMITS FROM AUTHORITIES HAVING JURISDICTION.
- INTERIOR FINISH MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF APPLICABLE CODES, ORDINANCES AND REGULATORY AGENCIES.
- DISSIMILAR METALS SHALL BE ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
- NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON INDIVIDUAL SHEETS SHALL BE APPLIED TO RELATED DRAWINGS AND DETAILS.
- A FINISH INDICATION ON A WALL SHALL MEAN THE ENTIRE LENGTH AND HEIGHT OF WALL IS TO BE FINISHED OR FIRE-RATED AS INDICATED.
- WHEN NON-DIMENSIONED PARTITIONS APPEAR IN CONJUNCTION WITH DOOR OPENINGS, THE DOOR WIDTH AND THE DOOR FRAME DETAILS DETERMINE THE LOCATION OF ADJACENT WALLS AND FRAMES.
- DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE CONTRACTING OFFICER BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL COORDINATE MECHANICAL AND ELECTRICAL FLOOR AND WALL SLEEVES INCLUDING CONDUITS WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES AND AS REQUIRED FOR MECHANICAL EQUIPMENT AND PLUMBING WORK. ACCESS PANELS SHALL BE CONCEALED AND LOCATIONS SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING.
- PIPE DUCTS AND BUS DUCTS THAT PENETRATE FLOOR SLABS OR WALL PARTITIONS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE MOISTURE RESISTIVENESS, FIRE RATING, AND STRUCTURAL INTEGRITY OF THE BUILDING.
- DO NOT CUT INTO, REMOVE OR ALTER ANY STRUCTURAL MEMBER OR PORTION OF THE FLOOR SYSTEM UNLESS IT IS SPECIFICALLY NOTED OR SHOWN ON THE STRUCTURAL DRAWINGS.
- PROVIDE EXPANSION AND CONTROL JOINTS IN WORK AS PER PRODUCT MANUFACTURER'S STANDARDS.
- INTERIOR PARTITION MOVEMENT CONTROL:
  - VERTICAL CONTROL JOINTS FOR ANY WALL LENGTH ARE TO OCCUR AT NOT MORE THAN 30'-0" O.C. IN THE HORIZONTAL DIRECTION, UNLESS NOTED OTHERWISE.
  - PROVISIONS SHALL BE MADE IN THE DESIGN, FABRICATION, AND INSTALLATION OF INTERIOR PARTITIONS FOR TYPICAL FLOOR DEFLECTIONS OF THE STRUCTURE UNDER SUPERIMPOSED LOADS AS FOLLOWS:
    - TYPICAL ROOF/FLOOR MEMBERS: SPAN/360 BUT NOT LESS THAN 1/2".
- THE CONTRACTOR SHALL PLAN HIS/HER WORK TO PROVIDE ADEQUATE PROTECTION FOR PERSONS AND PROPERTY AT ALL TIMES, AND EXECUTE THE WORK IN SUCH A MANNER TO AVOID ANY HAZARD TO PERSONS AND PROPERTY AS NECESSARY.
- THE CONTRACTOR SHALL COORDINATE THE PHASING OF THE WORK TO BE PERFORMED IN OR ABOUT EXISTING FACILITIES, IF APPLICABLE, WITH THE OWNER PRIOR TO START OF SUCH WORK.
- WHEREVER IN THE SPECIFICATIONS AND/OR DRAWINGS A CERTAIN BRAND, MAKE, MANUFACTURER, OR DEFINITE SPECIFICATION IS IDENTIFIED AS "BASIS OF DESIGN": THE REFERENCE IS USED ONLY TO DENOTE THE QUALITY STANDARD OF PRODUCT DESIRED AND DOES NOT RESTRICT BIDDERS TO THE SPECIFIC BRAND, MAKE, MANUFACTURER, OR SPECIFICATION NAMED. THE REFERENCE IS USED ONLY TO SET FORTH AND CONVEY TO PROSPECTIVE BIDDERS THE GENERAL STYLE, TYPE, CHARACTER, AND QUALITY OF PRODUCT DESIRED; AND THAT EQUIVALENT PRODUCTS WILL BE ACCEPTABLE. NOTE: THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR DEVELOPING, DETAILING, COORDINATING, AND PROVIDING REVISIONS REQUIRED BY USE OF ALTERNATE MANUFACTURES PRODUCTS SHOULD REVISIONS TO DETAILING, AND UTILITIES BE REQUIRED.

MATERIALS

	COMPACTED EARTH
	ROCK
	ROCKFILL
	SAND / MORTAR
	CONCRETE
	CONCRETE BLOCK(CMU)
	EXTERIOR INSULATION FINISH SYSTEM
	BRICK
	METAL-LARGE SCALE
	METAL-SMALL SCALE
	WOOD-FRAMING (CONTINUOUS)
	WOOD-BLOCKING (DISCONTINUOUS)
	WOOD-FINISH
	ACOUSTICAL TILE
	INSULATION BATT
	INSULATION RIGID
	GYPSUM BOARD
	CERAMIC TILE
	GLASS
	PLYWOOD
	PLASTER/ROCK LATH



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

GENERAL NOTES,  
ABBREVIATIONS &  
SYMBOLS

SHEET NUMBER

A-001

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



## SHEET NOTES:

- THIS SHEET INDICATES TYPICAL AND ACCESSIBLE MOUNTING HEIGHTS AND ADDITIONAL CRITERIA.
- THE ACCESSIBLE CRITERIA INDICATED ON THIS SHEET ARE IN COMPLIANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN (2010) AND THE ABA ACCESSIBILITY STANDARD FOR DEPARTMENT OF DEFENSE FACILITIES (2008).
- DETAILS ON THIS SHEET INDICATING ACCESSIBLE REQUIREMENTS ARE MARKED WITH THE "INTERNATIONAL SYMBOL OF ACCESSIBILITY".
- VERIFY MANUFACTURER'S RECOMMENDED ACCESSIBLE MOUNTING LOCATIONS WITH THOSE LISTED ON THIS SHEET.
- THIS SHEET IS FOR REFERENCE ONLY. CONTRACTOR TO INFORM ARCHITECT OF ANY DISCREPANCY WITH OTHER DRAWINGS PRIOR TO INSTALLATION.



"INTERNATIONAL SYMBOL OF ACCESSIBILITY"

## CLIENT INFORMATION



US Fish &amp; Wildlife Service

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
BunkhouseLA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

## SHEET TITLE

TYPICAL  
MOUNTING  
HEIGHTS &  
LOCATIONS

## SHEET NUMBER

A-002

ORIGINAL SHEET SIZE:  
24" X 36"

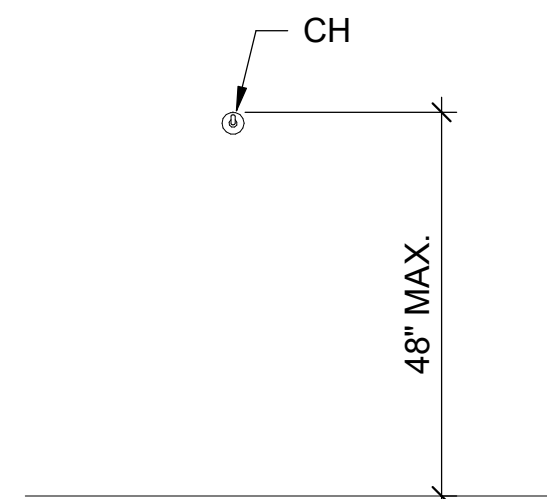
100% ISSUED FOR CONSTRUCTION

D

C

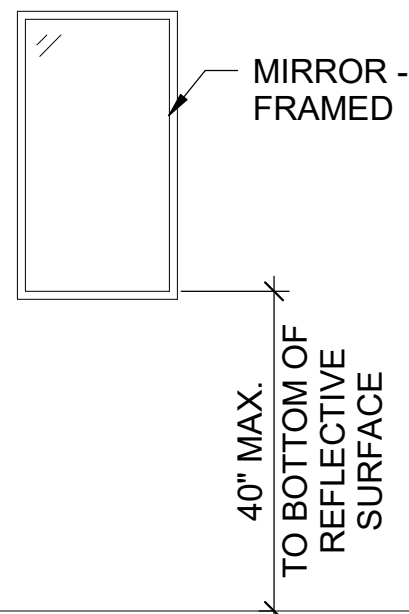
B

A

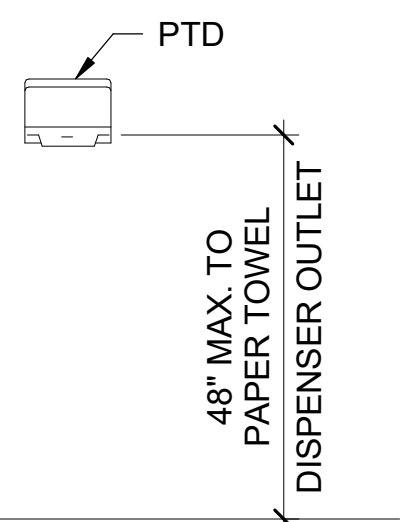


COAT HOOK (CH)

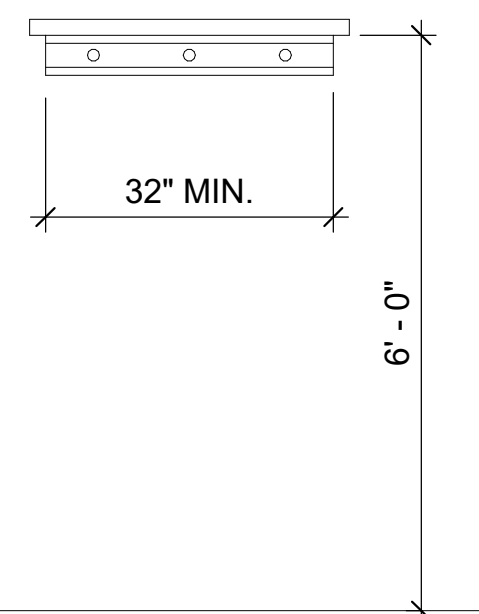
SCALE: 1/2"=1'-0"

MIRROR -FRAMED  
(MF)

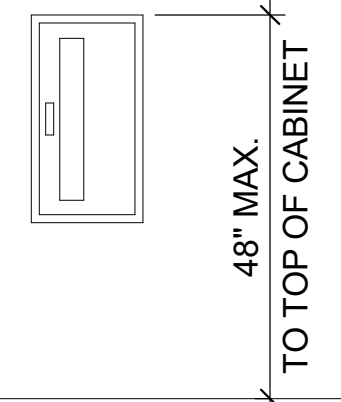
SCALE = 1/2" = 1'-0"

PAPER TOWEL  
DISPENSER (PTD)

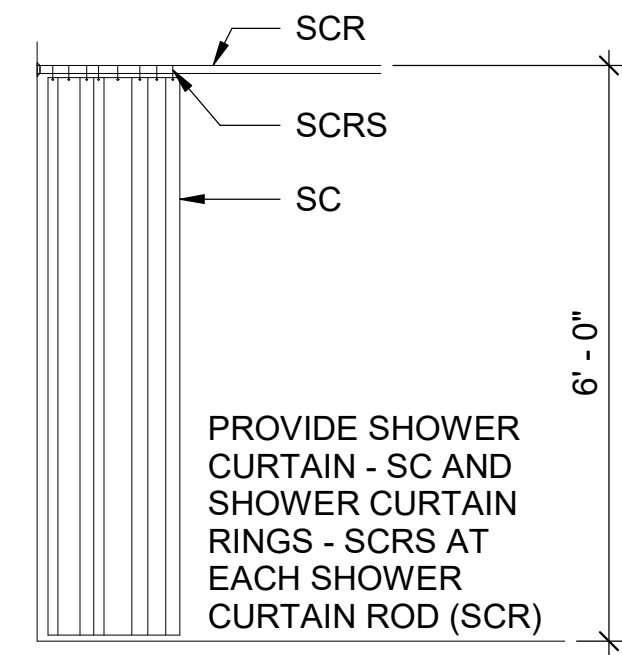
SCALE: 1/2"=1'-0"

MOP & BROOM  
HOLDER (MH)

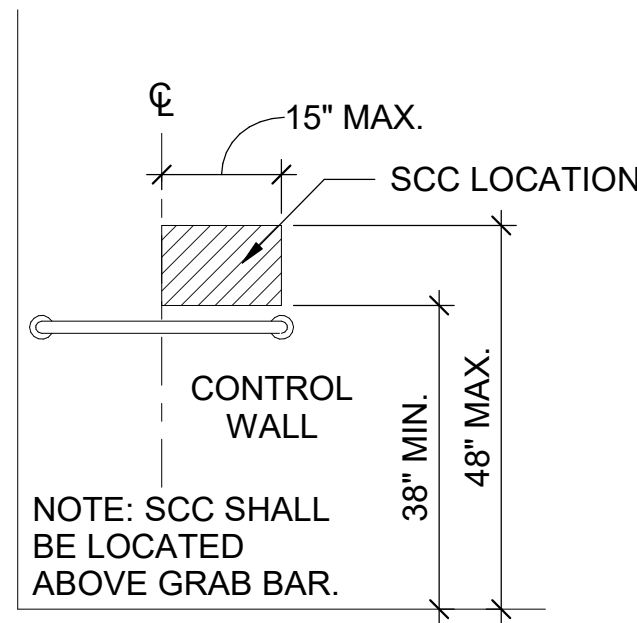
SCALE: 1/2"=1'-0"

NOTE: CABINET  
SHALL NOT PROJECT  
MORE THAN 4" FROM  
WALL.FIRE EXTINGUISHER  
CABINET (FEC)

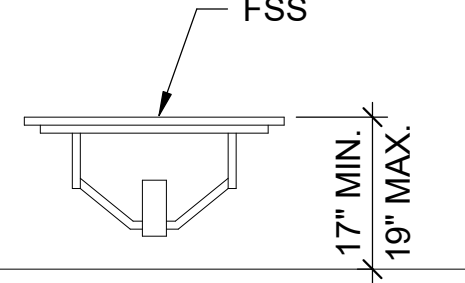
SCALE: 1/2"=1'-0"

SHOWER CURTAIN  
ROD (SCR)

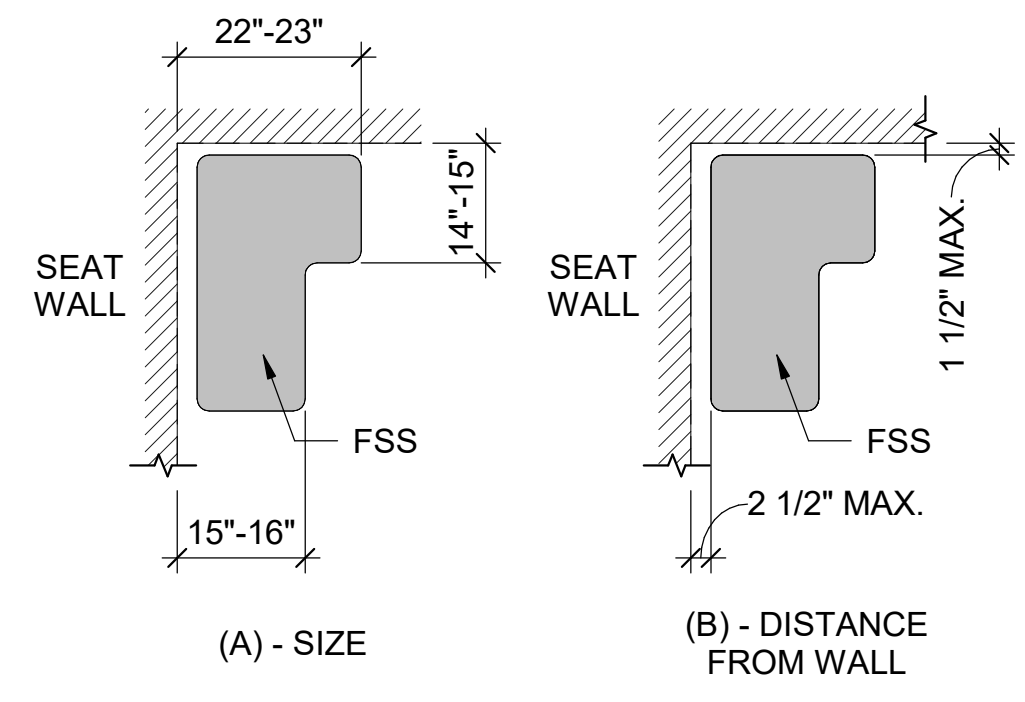
SCALE: 1/2"=1'-0"

SHOWER COMPARTMENT  
CONTROLS (SCC)

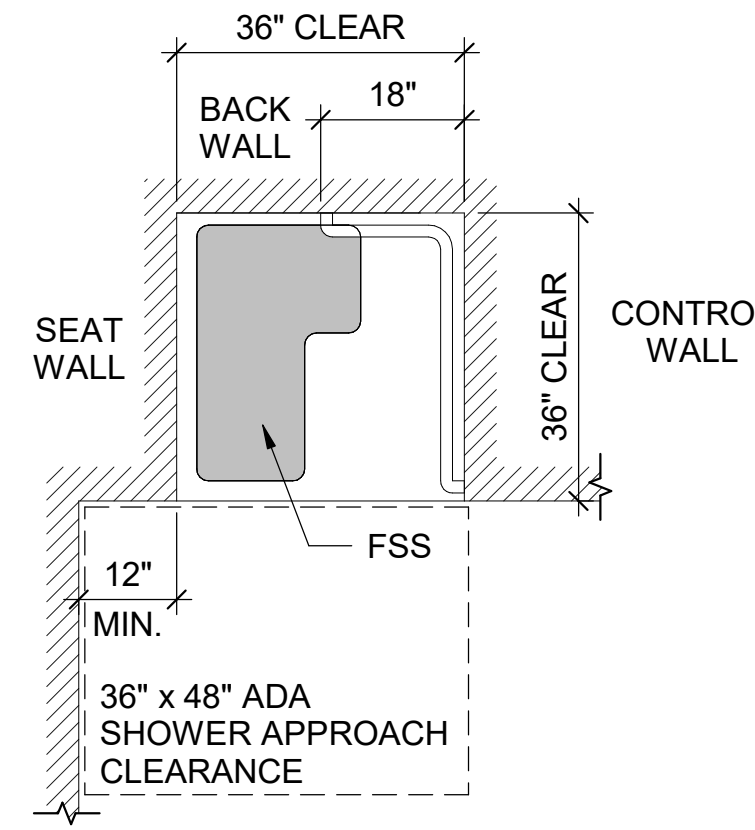
SCALE: 1/2"=1'-0"

FOLDING SHOWER  
SEAT (FSS)

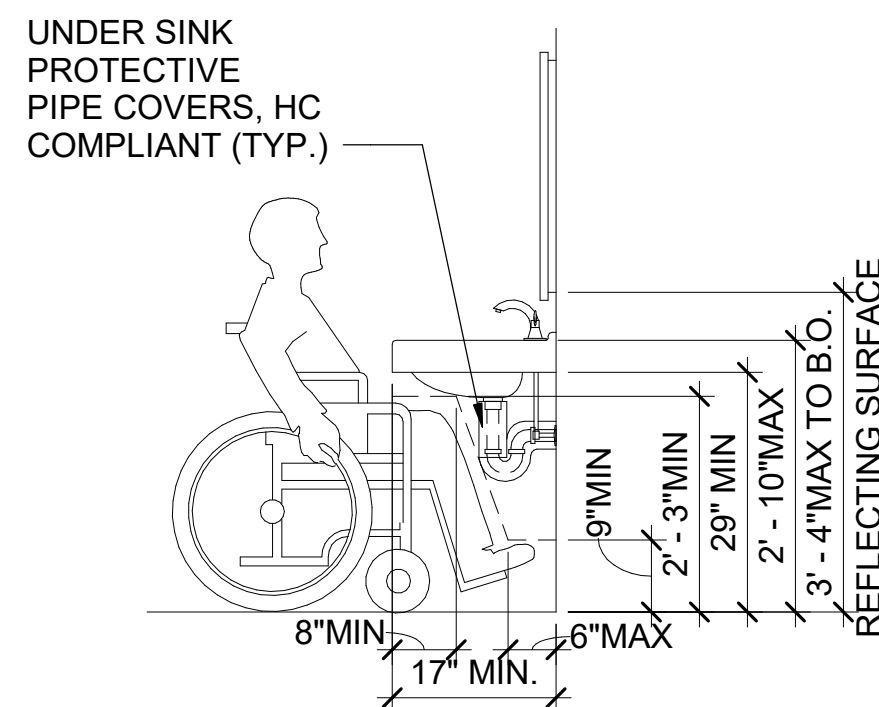
SCALE: 1/2"=1'-0"

FOLDING SHOWER SEAT (FSS) -  
SIZE AND MOUNTING CLEARANCE

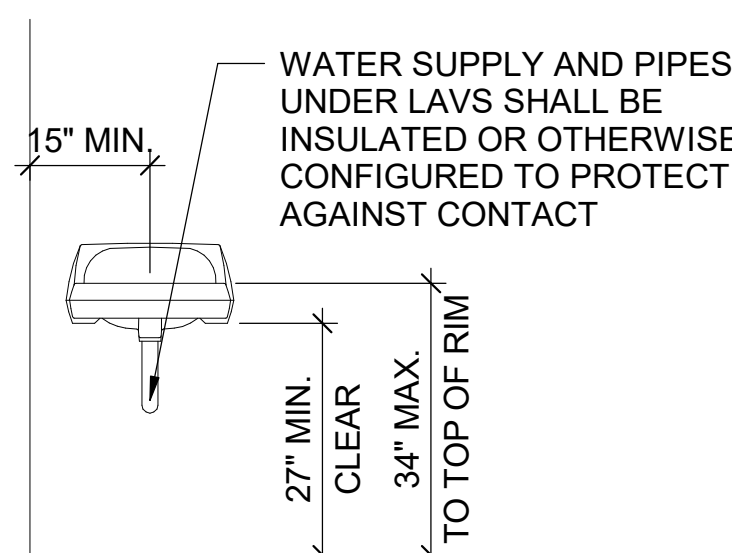
SCALE: 1/2"=1'-0"

SHOWER APPROACH  
CLEARANCE

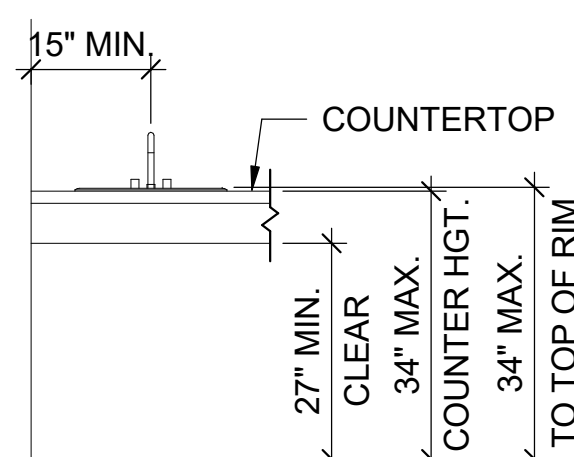
SCALE: 1/2"=1'-0"

LAVATORY ADA  
CLEARANCES

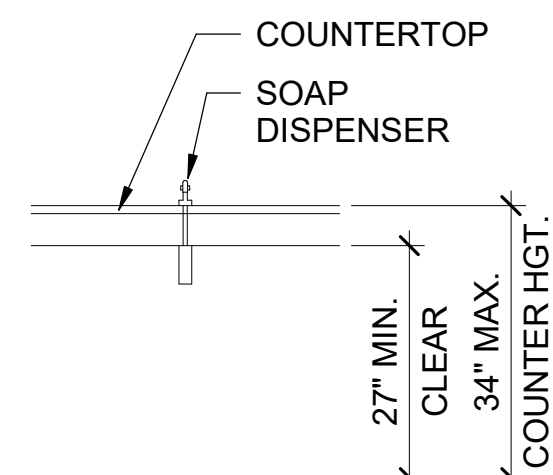
SCALE: 1/2"=1'-0"

WALL MOUNTED  
LAVATORY

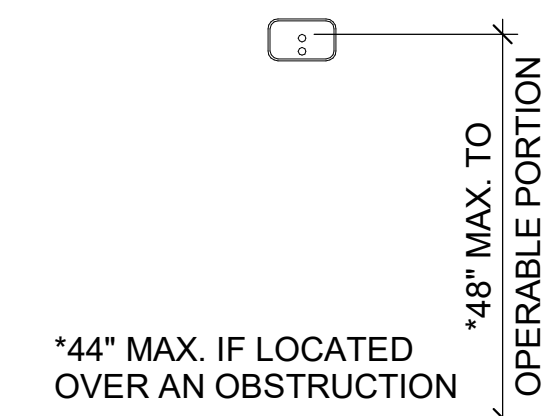
SCALE: 1/2"=1'-0"

SOLID SURFACE  
LAVATORY

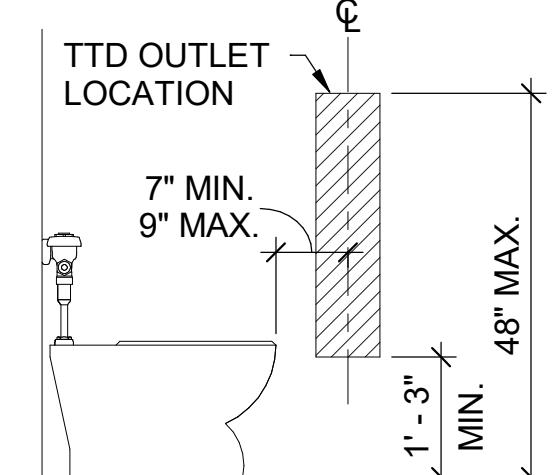
SCALE: 1/2"=1'-0"

SOAP DISPENSER  
(SD-1)

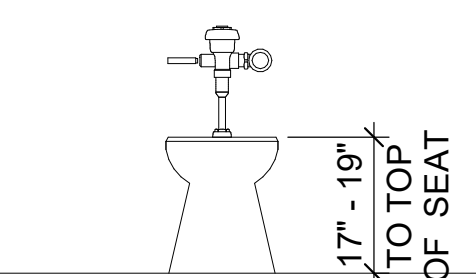
SCALE: 1/2"=1'-0"

SOAP DISPENSER  
(SD-2)

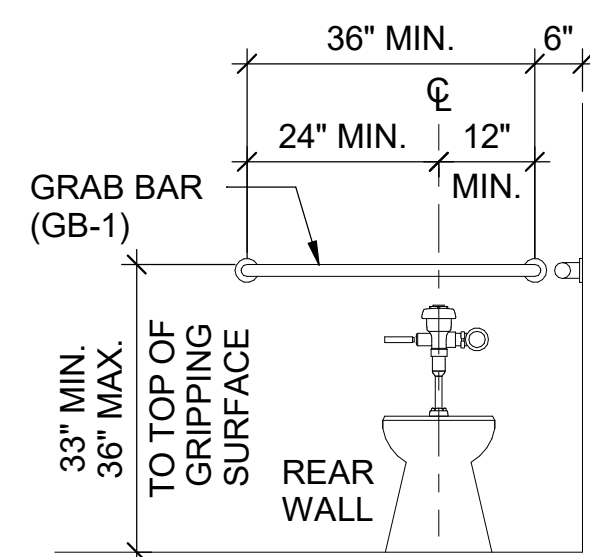
SCALE: 1/2"=1'-0"

TOILET TISSUE  
DISPENSER (TTD)

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

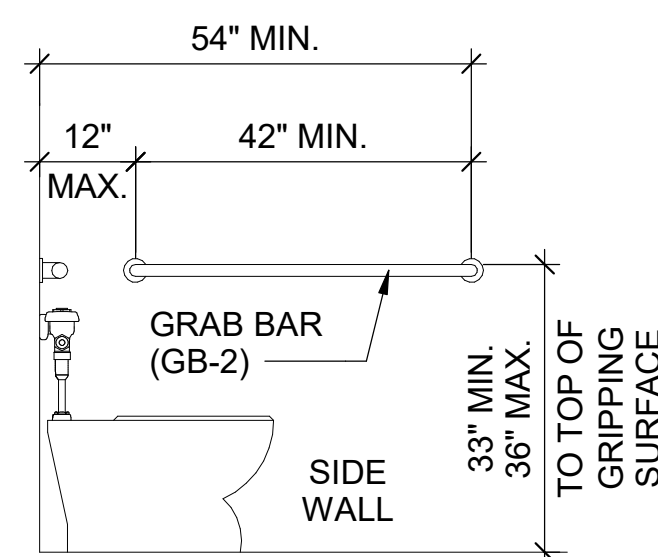
COMFORT HEIGHT  
FLOOR MOUNTED  
WATER CLOSET (WC-2)

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



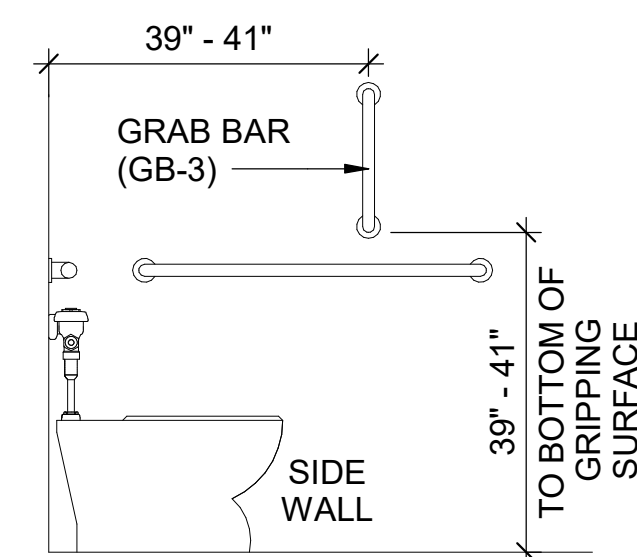
GRAB BAR (GB-1)

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



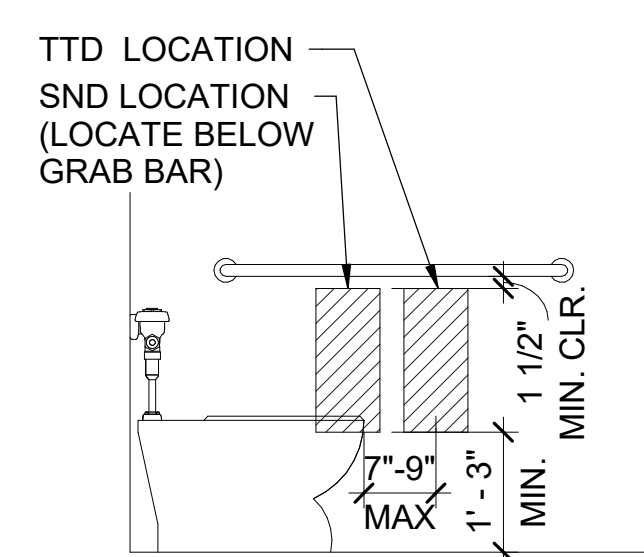
GRAB BAR (GB-2)

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



GRAB BAR (GB-3)

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

SANITARY NAPKIN  
DISPOSER (SND)

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

0 1' 2' 4'  
SCALE: 1/2" = 1'-0"



## SHEET NOTES

1. THIS SHEET INDICATES TYPICAL AND ACCESSIBLE MOUNTING HEIGHTS AND ADDITIONAL CRITERIA.
2. THE ACCESSIBLE CRITERIA INDICATED ON THIS SHEET ARE IN COMPLIANCE WITH THE **ADA** STANDARDS FOR ACCESSIBLE DESIGN (2010).
3. DETAILS ON THIS SHEET INDICATING ACCESSIBLE REQUIREMENTS ARE MARKED WITH THE "INTERNATIONAL SYMBOL OF ACCESSIBILITY".
4. VERIFY MANUFACTURER'S RECOMMENDED ACCESSIBLE MOUNTING LOCATIONS WITH THOSE LISTED ON THIS SHEET.
5. THIS SHEET IS FOR REFERENCE ONLY. CONTRACTOR TO INFORM **ARCHITECT** OF ANY DISCREPANCY WITH OTHER DRAWINGS PRIOR TO INSTALLATION.

 "INTERNATIONAL SYMBOL OF ACCESSIBILITY"

## CLIENT INFORMATION



US Fish &amp; Wildlife Service

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

## SHEET TITLE

MANEUVERING  
CLEARANCES

## SHEET NUMBER

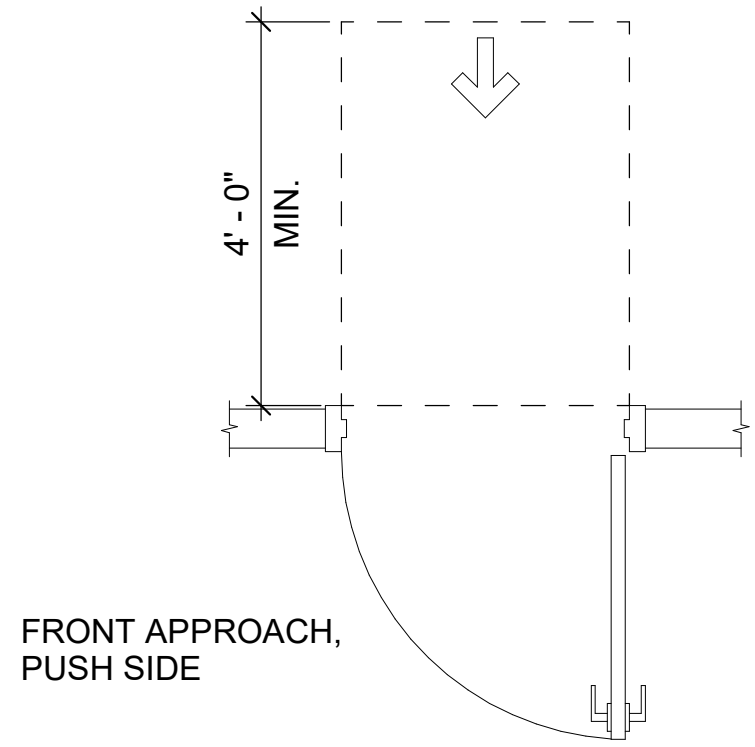
A-004

ORIGINAL SHEET SIZE:  
24" X 36"

0 1' 2' 4'  
SCALE: 1/2" = 1'-0"

100% ISSUED FOR CONSTRUCTION

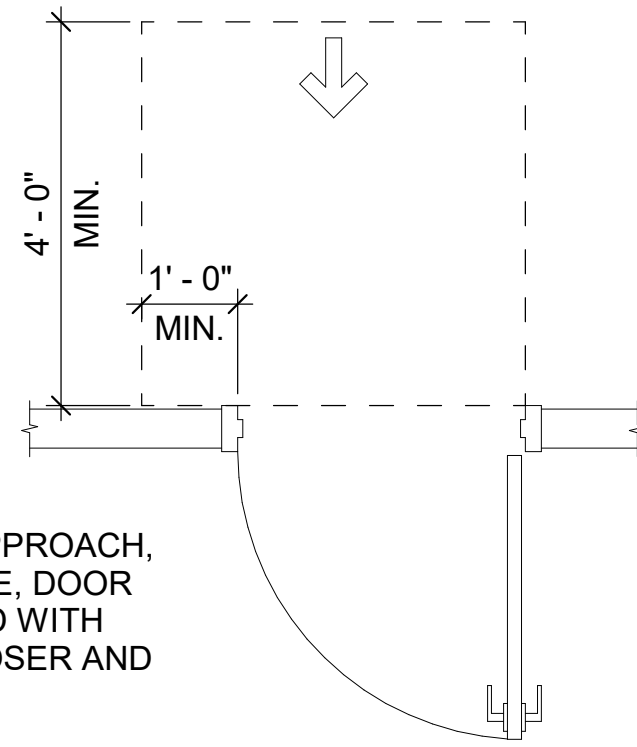
D



FRONT APPROACH,  
PUSH SIDE

MANEUVERING CLEARANCES

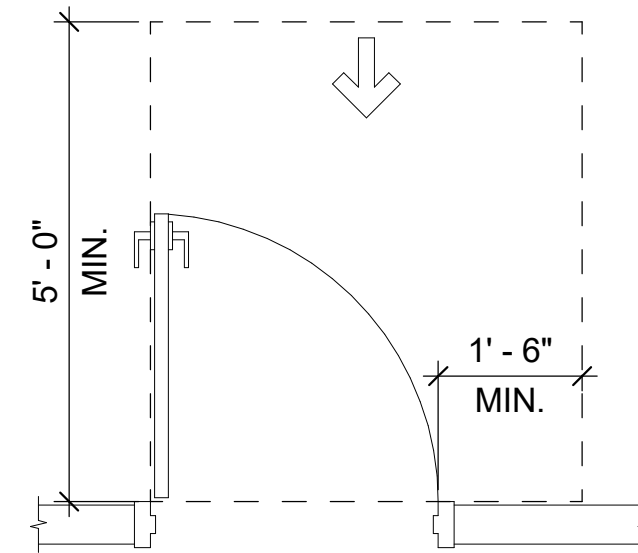
SCALE: 1/2" = 1'-0"



FRONT APPROACH,  
PUSH SIDE, DOOR  
PROVIDED WITH  
BOTH CLOSER AND  
LATCH

MANEUVERING CLEARANCES

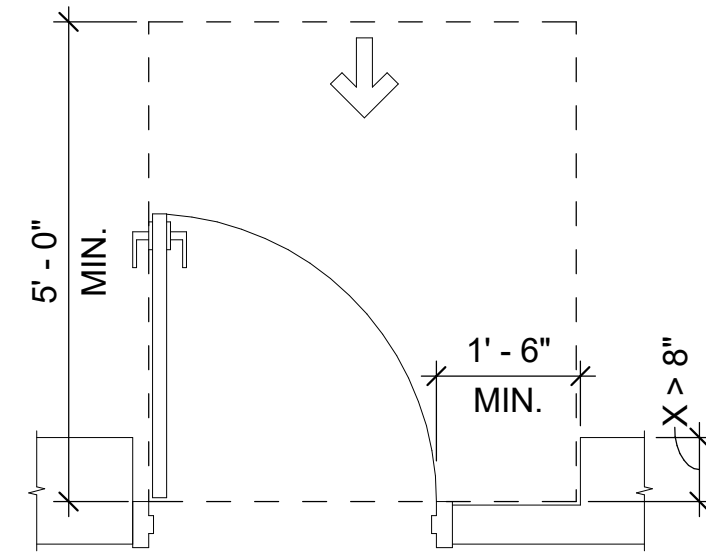
SCALE: 1/2" = 1'-0"



FRONT APPROACH,  
PULL SIDE

MANEUVERING CLEARANCES

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



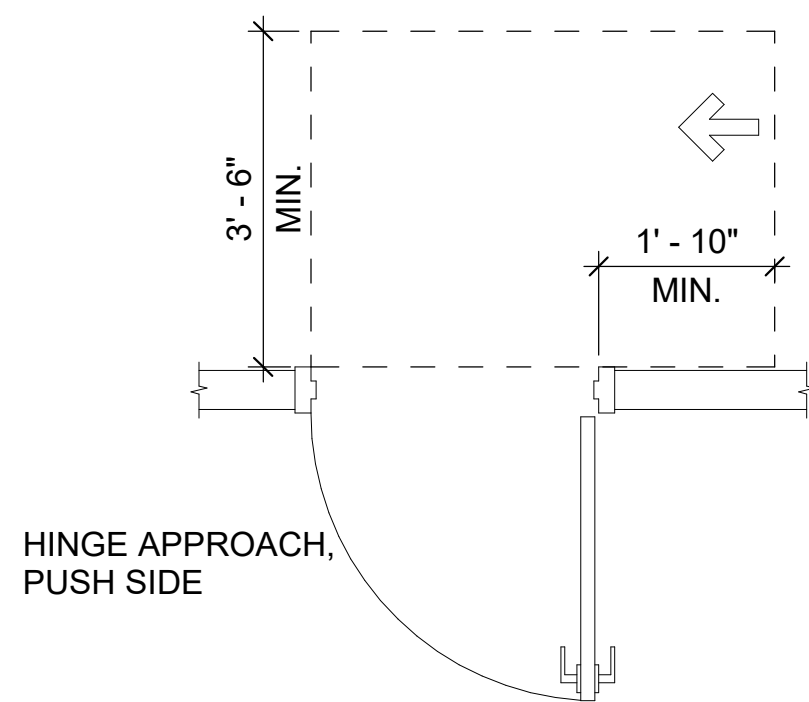
FRONT APPROACH,  
PULL SIDE

MANEUVERING CLEARANCES

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



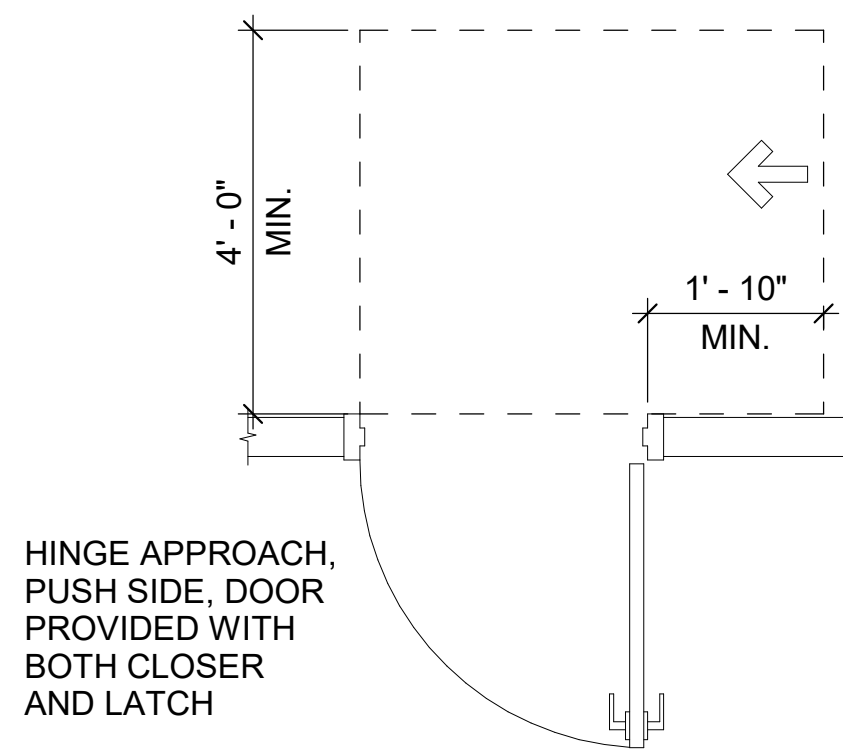
C



HINGE APPROACH,  
PUSH SIDE

MANEUVERING CLEARANCES

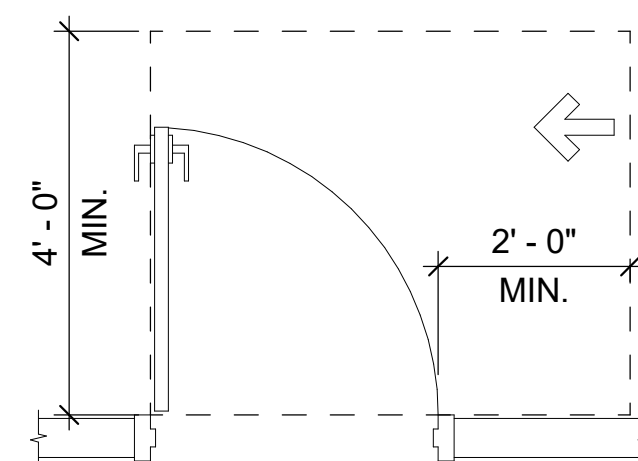
SCALE: 1/2" = 1'-0"



HINGE APPROACH,  
PUSH SIDE, DOOR  
PROVIDED WITH  
BOTH CLOSER AND  
LATCH

MANEUVERING CLEARANCES

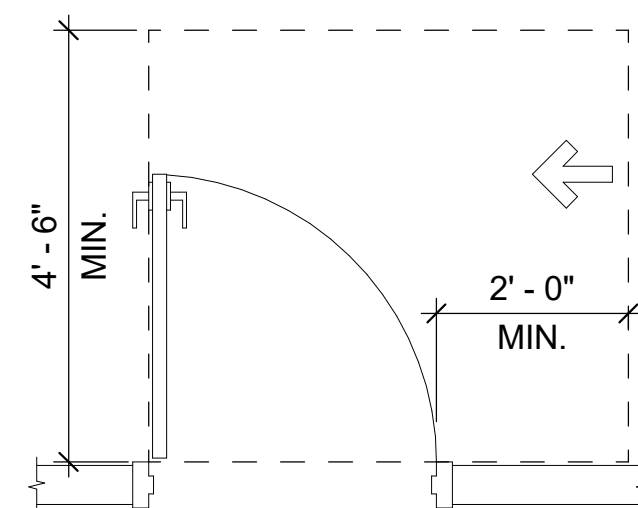
SCALE: 1/2" = 1'-0"



LATCH APPROACH,  
PULL SIDE

MANEUVERING CLEARANCES

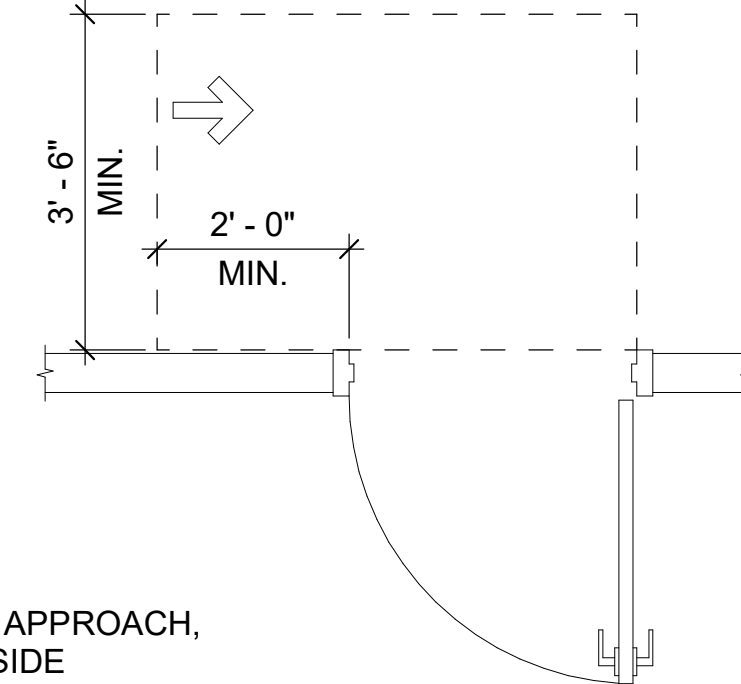
SCALE: 1/2" = 1'-0"



LATCH APPROACH, PULL SIDE,  
DOOR PROVIDED WITH CLOSER

MANEUVERING CLEARANCES

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



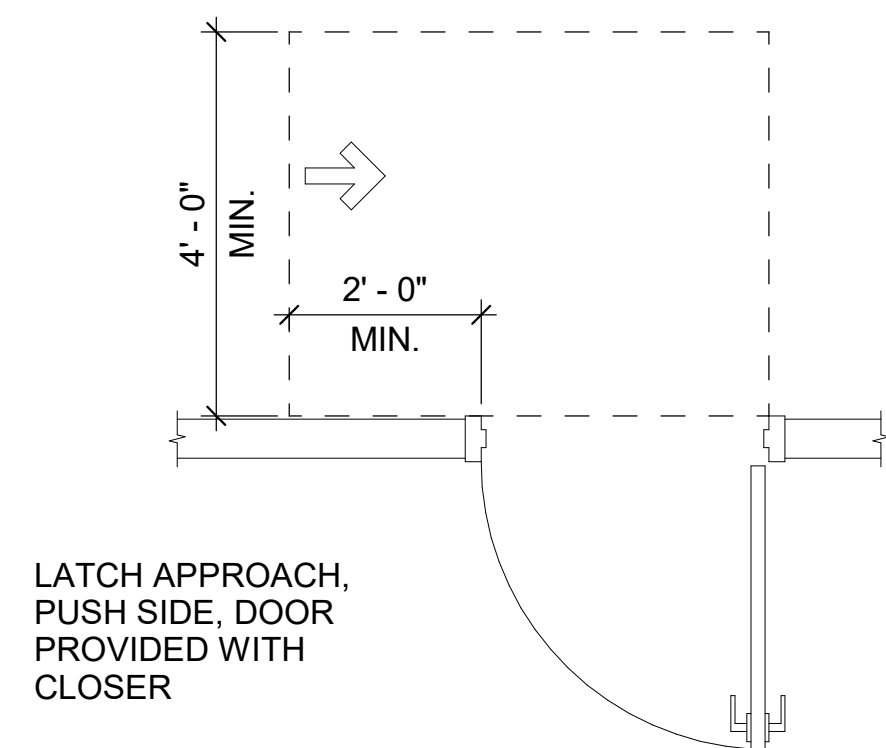
LATCH APPROACH,  
PUSH SIDE

MANEUVERING CLEARANCES

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



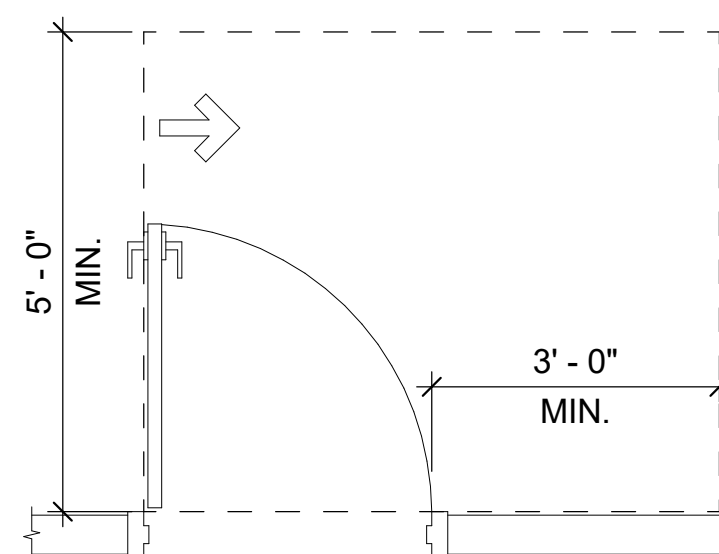
B



LATCH APPROACH,  
PUSH SIDE, DOOR  
PROVIDED WITH  
CLOSER

MANEUVERING CLEARANCES

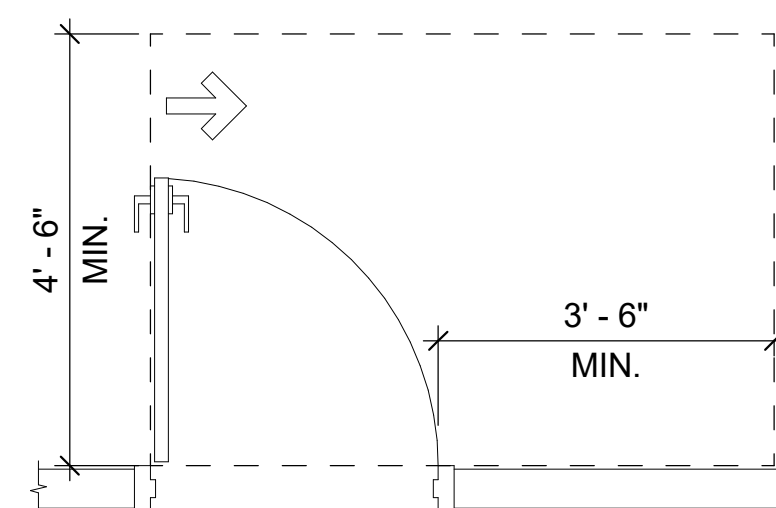
SCALE: 1/2" = 1'-0"



HINGE APPROACH,  
PULL SIDE

MANEUVERING CLEARANCES

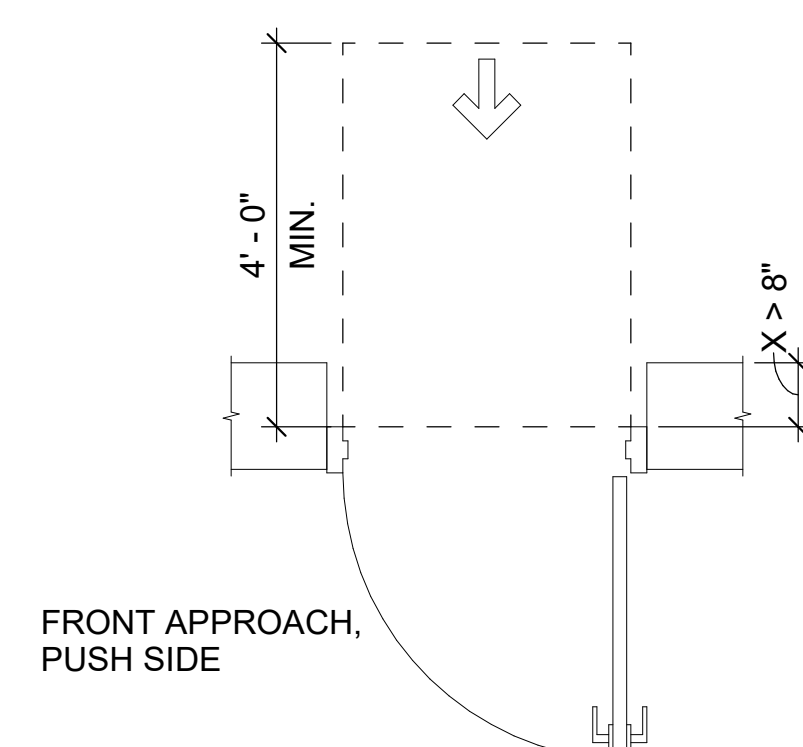
SCALE: 1/2" = 1'-0"



HINGE APPROACH,  
PULL SIDE

MANEUVERING CLEARANCES

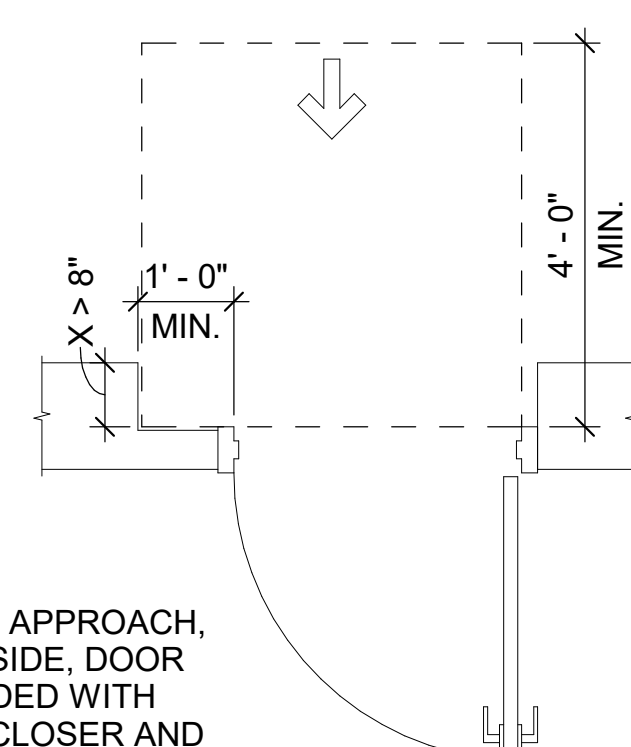
SCALE: 1/2" = 1'-0"



FRONT APPROACH,  
PUSH SIDE

MANEUVERING CLEARANCES

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



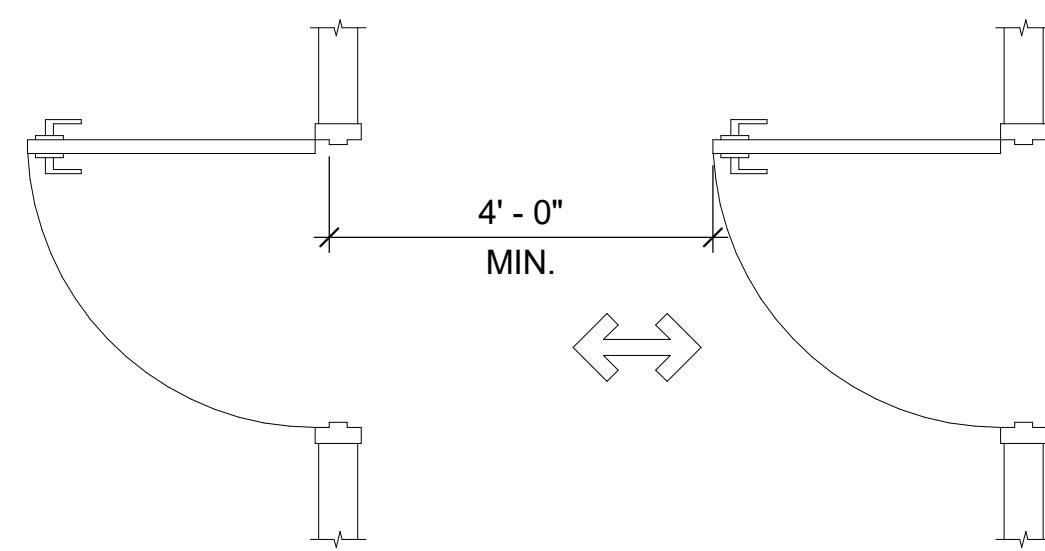
FRONT APPROACH,  
PUSH SIDE, DOOR  
PROVIDED WITH  
BOTH CLOSER AND  
LATCH

MANEUVERING CLEARANCES

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

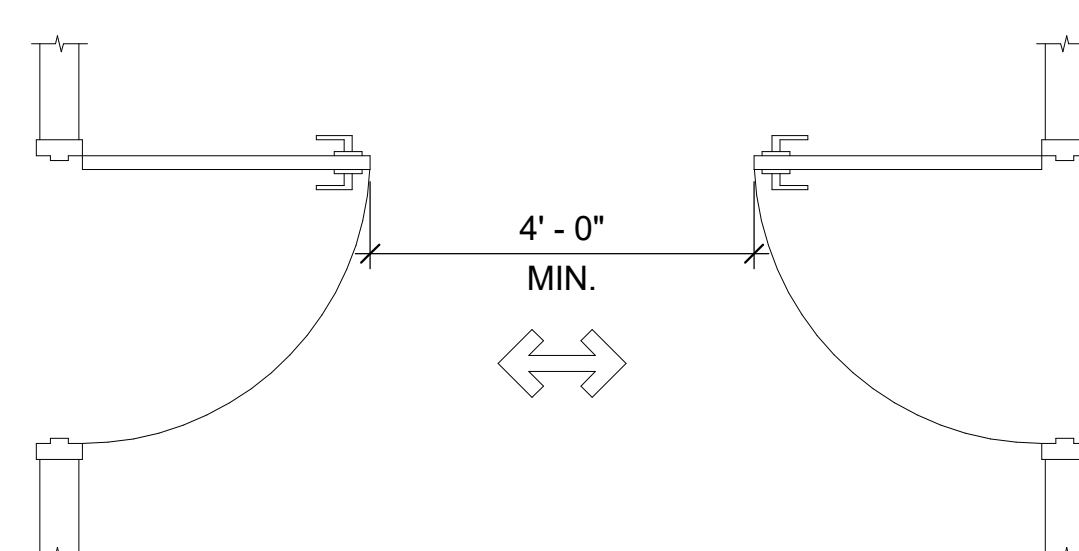
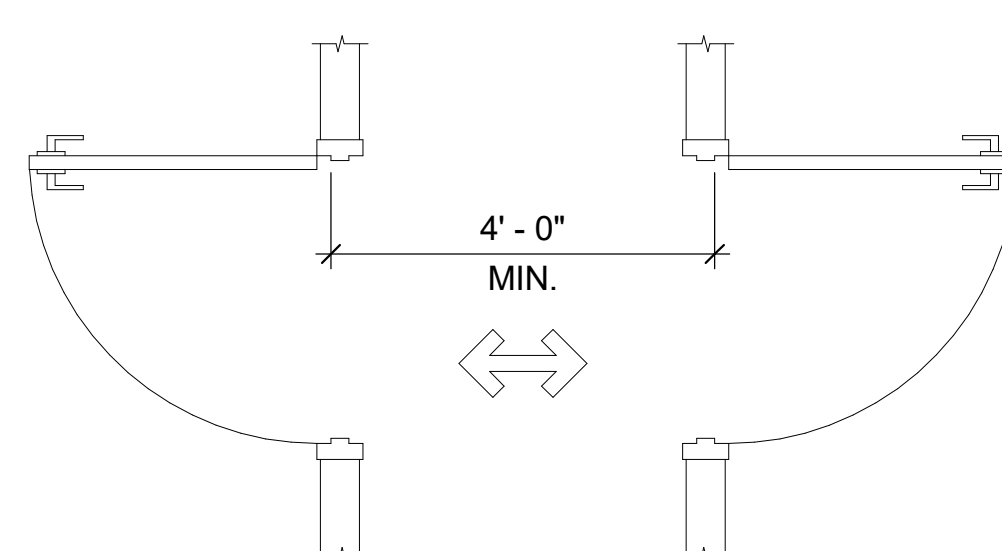


A



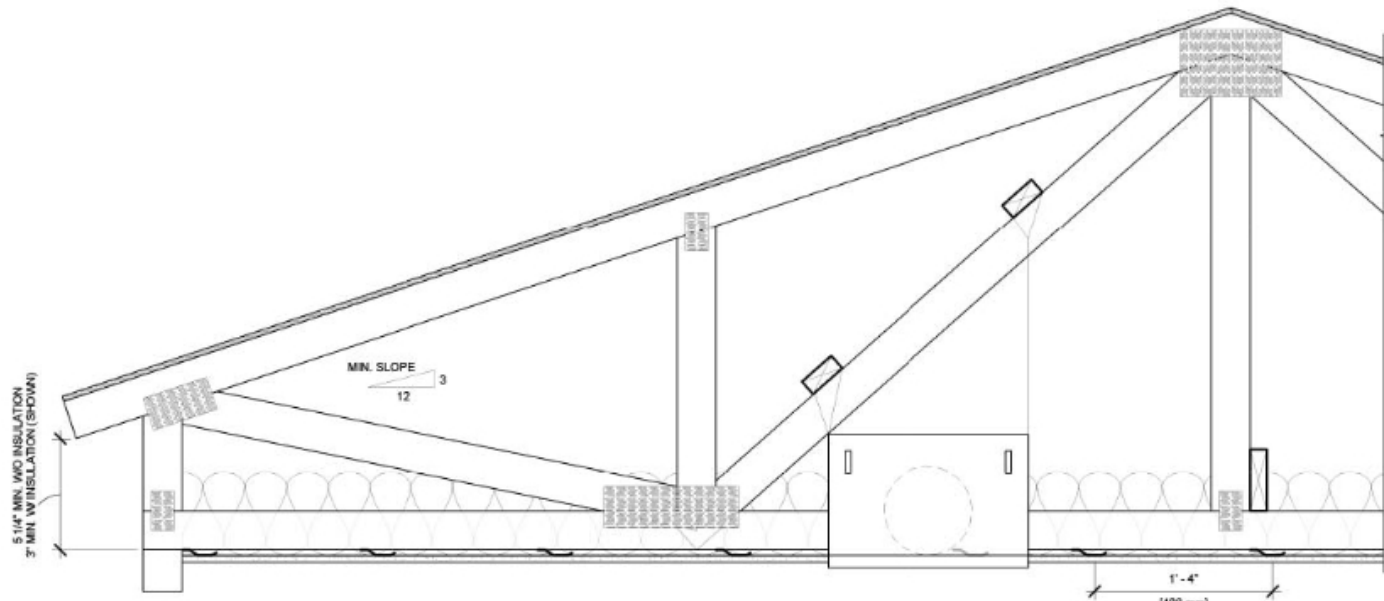
DOOR IN SERIES  
CLEARANCES

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





2/10/2025 6:33:51 PM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_ARCH\_V21.rvt



UL FIRE RATED CEILING

UL P522

Wood Truss

Fire Rating	System Thickness	STC	IIC
1 hours	Varies	n/a	null

ASSEMBLY DETAILS

**Roofing System:** 1 layer Any UL Class A, B or C Roofing System (TGFU) or prepared Roof Covering (TFWZ)

**Roof Sheathing:** 1 layer Nom. 15/32" Thick Wood Structural Panels, Min. Grade "C-D" or "Sheathing"

**Trusses:** 1 layer Pitched or Parallel Chord Wood Trusses, Spaced 24" Max. O.C., Fabricated from Nom. 2x4 Lumber, Oriented Vertically or Horizontally. Min. Truss depth shall be 5-1/4" with a Min. Roof Slope of 3/12

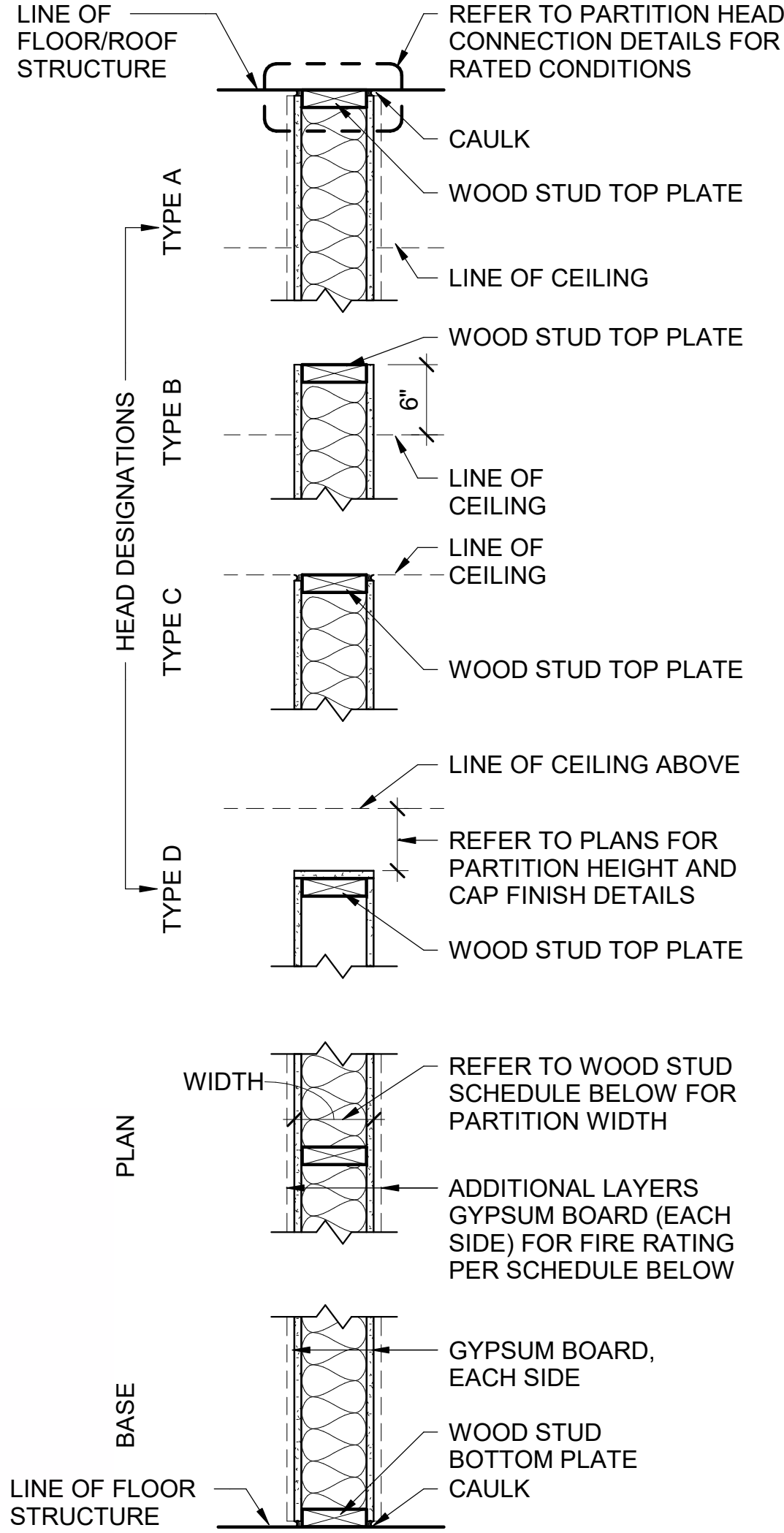
**Air Duct:** 1 layer Any UL Class 0 or Class 1 Flexible Air Duct

**Ceiling Damper:** 1 layer Max. Nom. Area, 324 SQ IN., Max. square size, 18" by 18", Rectangular sizes not to exceed 324 SQ IN. with width of 18" Max., Damper height 14" Max.

**Insulation:** 1 layer 3-1/2" Thick Min. Batts and Blankets draped over Resilient Channel and Gypsum Board Ceiling Membrane

**Resilient Channel:** 1 layer 1/2" Deep, 25ga., Installed perpendicular to the Trusses, Spaced 16" Max. O.C.

**Gypsum Panel:** 1 layer 5/8" [15.9 mm] Sheetrock® EcoSmart Gypsum Panel (UL Type ULIX™)



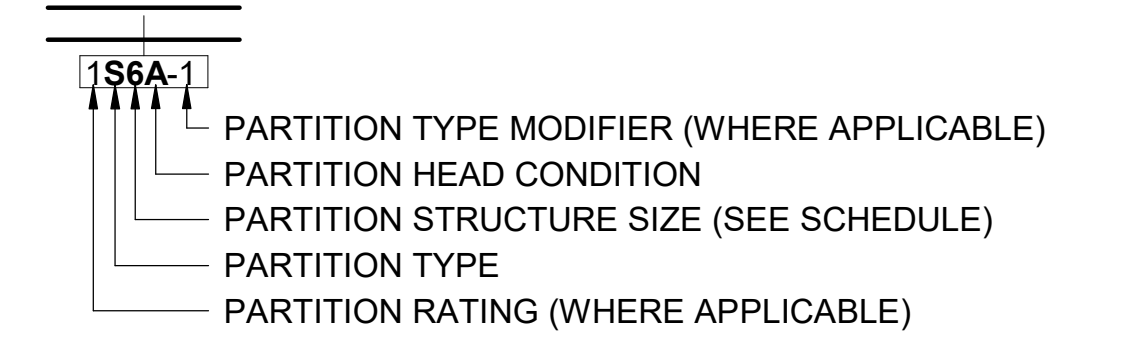
PARTITION TYPE W

WOOD STUD SCHEDULE					
MARK	STUD WIDTH	GWV (LAYERS EACH SIDE)	PARTITION WIDTH	FIRE RATING	UL LISTING
W4C	3 1/2"	(1) 5/8"	4 3/4"	0 HR	N/A
W4C-1	3 1/2"	(1) 5/8"	4 3/4"	0 HR	N/A
W4C-2	3 1/2"	(1) 5/8"	4 1/8"	0 HR	N/A
W6C	5 1/2"	(1) 5/8"	6 3/4"	0 HR	N/A
W6C-1	5 1/2"	(1) 5/8"	6 3/4"	0 HR	N/A
1W4C-3	3 1/2"	(1) 5/8" TYPE X	4 3/4"	1 HR	U305
1W6C-3	5 1/2"	(1) 5/8" TYPE X	6 3/4"	1 HR	U305

INTERIOR PARTITION GENERAL NOTES

- PARTITION TYPES DESCRIBE GENERAL REQUIREMENTS FOR PARTITIONS. REFER TO THE MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS OF APPLICABLE TESTING AGENCIES FOR SPECIFICS OF PARTITION CONSTRUCTION.
- REFER TO "PARTITION TYPE NOMENCLATURE" FOR SYMBOLS USED TO IDENTIFY ADDITIONAL REQUIREMENTS AND MODIFIERS TO BASIC PARTITION TYPES.
- "LINE OF STRUCTURE" INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.
- TYPICAL FLOOR PLAN DIMENSIONS OF PARTITIONS ARE TO FACE OF STUD OR CMU UNLESS NOTED OTHERWISE.
- WHERE A CLEAR OPENING DIMENSION IS INDICATED, THE DIMENSION IS MEASURED FACE-TO-FACE BETWEEN FINISHED SURFACES.
- REFER TO SPECIFICATIONS FOR MINIMUM STUD DESIGN CRITERIA, MAXIMUM SPACING AND ALLOWABLE LIMITING HEIGHTS DEFLECTION CRITERIA FOR GYPSUM BOARD.
- METAL STUD GAUGE (IF NOTED) AND UL TEST NUMBERS WILL VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED.
- REFER TO FLOOR PLANS FOR FIRE PROTECTION RATINGS.
- RATED PARTITIONS SHALL BE LABELED ABOVE CEILING WITH LABELS PER AHJ AS REQUIRED. IBC CHAPTER 7 AT MINIMUM.
- PENETRATIONS IN RATED PARTITIONS AND CONNECTIONS OF THE PARTITIONS TO OTHER PORTIONS OF THE WORK TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED DETAILS AND IN COMPLIANCE WITH APPLICABLE TESTING AGENCY REQUIREMENTS.
- INSTALLATION OF GYPSUM BOARD, BACKER BOARD AND BASE BOARD TO CONFORM TO REQUIREMENTS FOR FIRE RATINGS AND ACOUSTICAL RATINGS.
- PROVIDE WATER RESISTANT TYPE GYPSUM BOARD AT AREAS THAT ARE NOTED IN ROOM FINISH SCHEDULE TO RECEIVE CERAMIC OR PORCELAIN TILE FINISH.
- INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT / MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT DESCRIBED IN THE DOCUMENTS. ALL BLOCKING TO BE FIRE RETARDANT TREATED.
- PARTITIONS THAT ARE REQUIRED TO EXTEND TO THE DECK ABOVE ARE TO HAVE THE GYPSUM BOARD CUT TO FIT WITHIN A 1/4" MAXIMUM TOLERANCE TO THE SHAPE OF THE DECK ABOVE. GYPSUM BOARD SHALL BE CONTINUOUSLY SEALED FOR THE FULL DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT.
- PROVIDE METAL STRAPPING @ 24" VERT. TO HOLD BATT INSULATION FOR AREAS WITHOUT GYPSUM WALLBOARD.
- GYPSUM BOARD IS TO BE CUT SO THAT THE CLEARANCE BETWEEN METALLIC ELECTRICAL OUTLET BOXES AND THE GYPSUM BOARD DOES NOT EXCEED 1/8".
- THE BOTTOM OF THE GYPSUM BOARD AT INTERIOR PARTITIONS IS TO BE 1/4" MINIMUM AND 1/2" MAXIMUM ABOVE THE FLOOR STRUCTURE AND IS TO BE SEALED FOR THE FULL DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT.
- AT WALLS WITH SOUND ATTENUATION BLANKETS PROVIDE SOUND ATTENUATION BLANKETS ON CEILING TO 2'-0" ON BOTH SIDES OF WALL EXCEPT AT WALLS WITH SOUND ATTENUATION BLANKETS EXTENDING TO STRUCTURE.
- REFER TO INTERIOR FINISH SCHEDULE FOR WALL FINISHES.
- REFER TO PARTITION TYPE MODIFIERS FOR STC RATED PARTITIONS

PARTITION TYPE NOMENCLATURE



PARTITION TYPES				PARTITION HEAD CONDITION	
M	CONCRETE MASONRY UNIT (CMU)	F	FURRING	A	BOTTOM OF STRUCTURE
		W	WOOD STUD	B	6" ABOVE CEILING
G	METAL STUD	P	INSULATED METAL PANEL (IMP)	C	BOTTOM OF CEILING ABOVE
S	SHAFTWALL			D	PARTIAL HEIGHT

PARTITION STRUCTURE WIDTH (FURRING MEMBER \*)

#	METAL	WOOD	CMU	IMP
0	*0-7/8"	--	--	--
1	*1-1/2"	--	--	--
2	2-1/2"	*1-1/2"	--	2"
3	3-5/8"	2-1/2"	--	3"
4	4"	3-1/2"	3-5/8"	4"
6	6"	5-1/2"	5-5/8"	6"
7	--	--	--	7"
8	8"	7-1/4"	7-5/8"	8"
10	10"	9-1/4"	--	--
12	12"	11-1/4"	11-5/8"	--

PARTITION TYPE MODIFIER

1	SOUND BATT MINIMUM STC RATING - 42	4
2	GYPSUM BOARD - EXPOSED SIDE ONLY	5
3	SOUND BATT & SMOKE PARTITION	6



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

PARTITION TYPES  
& DETAILS

SHEET NUMBER

A-005

ORIGINAL SHEET SIZE:  
24" X 36"



## KEYNOTES

- 5 TONGUE & GROOVE COMPOSITE DECKING  
104 3" X 5" PREFINISHED METAL DOWNSPOUT AND PRECAST SPLASH BLOCK  
305 FIBERGLASS NO-SEE-UM INSECT SCREEN MESH INSTALLED ON SCREEN KIT  
306 AL GUARDRAIL WITH COMPOSITE BOARD TOP RAIL, OFF-CENTER FROM COLUMN AT SCREENED PORCH  
352 DISHWASHER N.I.C.  
353 REFRIGERATOR N.I.C.

- 354 RESIDENTIAL STOVE & RANGE N.I.C.  
358 DOUBLE COMPARTMENT SINK  
403 FIRE EXTINGUISHER IN SEMI RECESSED CABINET  
460 ELECTRICAL PANEL  
461 MECHANICAL PLATFORM SEE MECH/STRUCT  
463 MECHANICAL UNIT  
467 1-1/2" DIA REMOVABLE GALV. PIPE GUARDRAIL- PTD.

## SHEET NOTES

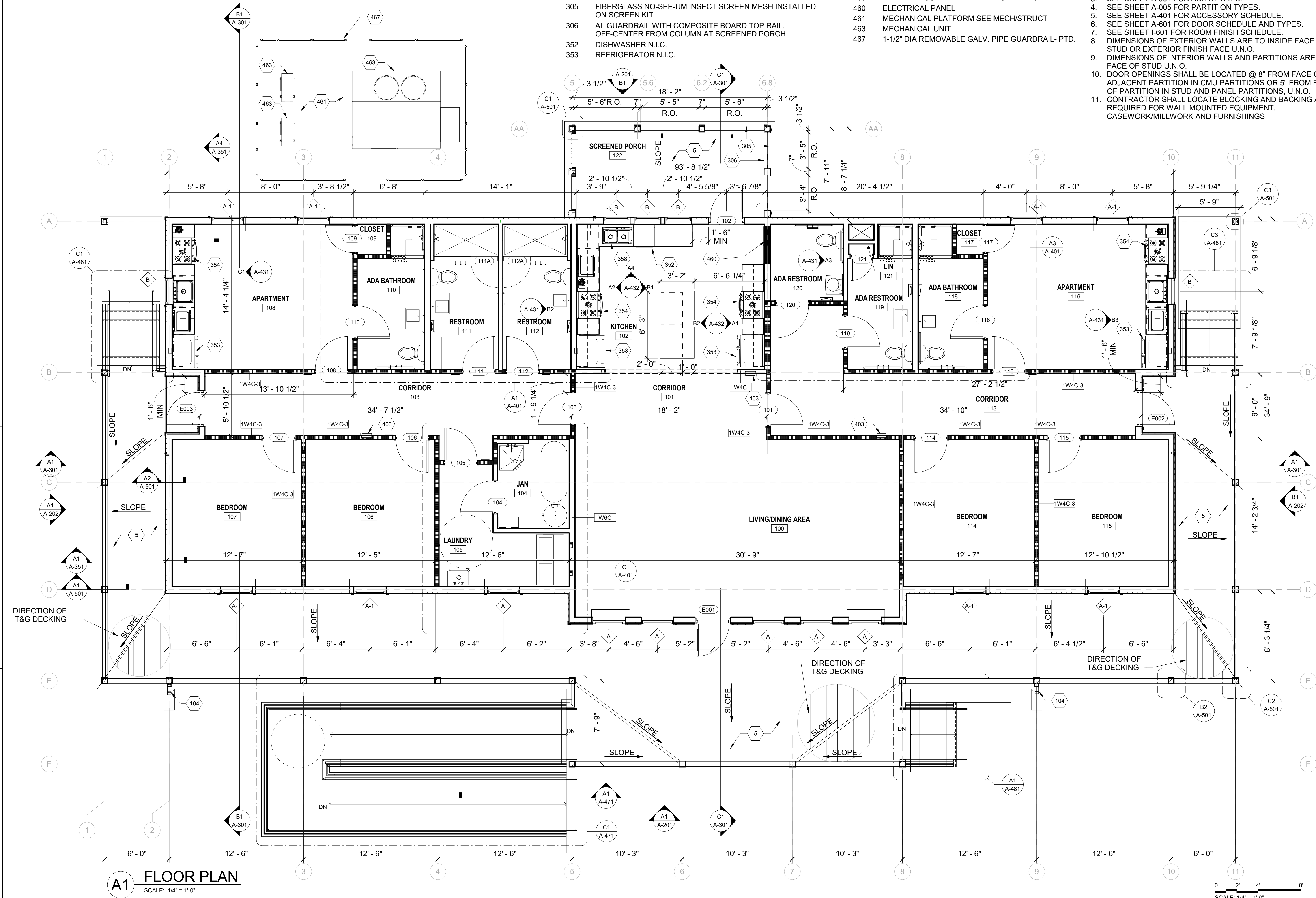
- SEE SHEET A-001 FOR GENERAL NOTES.
- SEE SHEET A-002 FOR TYPICAL MOUNTING HEIGHTS, LOCATIONS AND DETAILS.
- SEE SHEET A-004 FOR ADA DETAILS.
- SEE SHEET A-005 FOR PARTITION TYPES.
- SEE SHEET A-401 FOR ACCESSORY SCHEDULE.
- SEE SHEET A-601 FOR DOOR SCHEDULE AND TYPES.
- SEE SHEET I-601 FOR ROOM FINISH SCHEDULE.
- DIMENSIONS OF EXTERIOR WALLS ARE TO INSIDE FACE OF STUD OR EXTERIOR FINISH FACE U.N.O.
- DIMENSIONS OF INTERIOR WALLS AND PARTITIONS ARE TO FACE OF STUD U.N.O.
- DOOR OPENINGS SHALL BE LOCATED @ 8" FROM FACE OF ADJACENT PARTITION IN CMU PARTITIONS OR 5" FROM FACE OF PARTITION IN STUD AND PANEL PARTITIONS, U.N.O.
- CONTRACTOR SHALL LOCATE BLOCKING AND BACKING AS REQUIRED FOR WALL MOUNTED EQUIPMENT, CASEWORK/MILLWORK AND FURNISHINGS

D

C

B

A



A1

## FLOOR PLAN

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

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



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/IAOR SEAL

CONSULTANT

## CLIENT INFORMATION



U.S. Fish &amp; Wildlife Service

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

## SHEET TITLE

FLOOR PLAN

## SHEET NUMBER

A-101

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



1

2

3

4

5

KEYNOTES

SHEET NOTES

201 ATTIC TO BE DRAFTSTOPPED INTO 3000SF MAX SECTIONS. APPLY 1 LAYER 5/8" GWB TO TRUSS AND SEAL TO DECK AND RATED CLG BELOW ROOF DECK



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

ATTIC PLAN

SHEET NUMBER

A-111

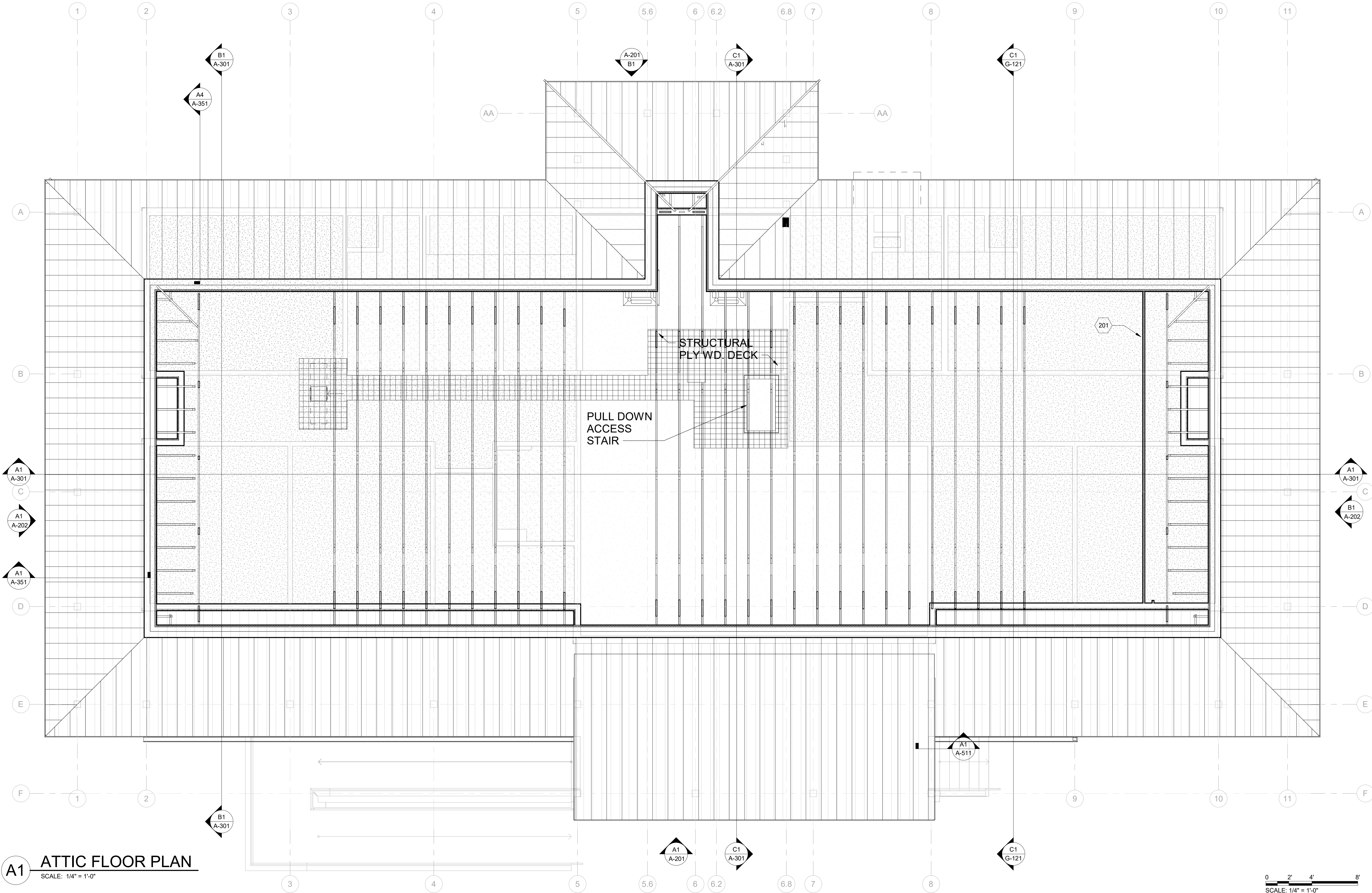
ORIGINAL SHEET SIZE:  
24" X 36"

D

C

B

A



A1 ATTIC FLOOR PLAN  
SCALE: 1/4" = 1'-0"

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



100% ISSUED FOR CONSTRUCTION



1

2

3

4

5

## REFLECTED CEILING PLAN SHEET LEGEND

- |     |  |   |   |
|-----|--|---|---|
| ○   | DOWNLIGHT- CENTER IN CEILING, TYP., U.N.O.           | ☒ | SUPPLY AIR DEVICE   |
| ●   | EMERGENCY DOWNLIGHT- CENTER IN CEILING, TYP., U.N.O. | ☑ | RETURN AIR DEVICE   |
| —○— | 1' X 4' PENDANT LIGHT FIXTURE                        | ☒ | EXHAUST AIR DEVICE  |
| —●— | 1' X 4' EMERGENCY PENDANT LIGHT FIXTURE              | — | LINEAR SLOT DIFFUSER  |
| ⊕   | EXTERIOR WALL MOUNTED FIXTURE                        | ⌒ | RATED OR NON-RATED, LOCKABLE, STEEL ACCESS PANEL 2'-0" W. X 3'-0" DP. - PROVIDE ACCESS PANELS AS REQUIRED TO ALLOW ACCESS TO EQUIPMENT, SHUT-OFF VALVES, FIXTURES, MECH. LOUVERS, FIRE DAMPERS AND OTHER ITEMS ABOVE THE CEILING. PAINT TO MATCH THE ADJACENT SURFACE'S COLOR, U.N.O. |
| ⊕   | EXTERIOR EMERGENCY WALL MOUNTED FIXTURE              |   |   |
| ⊕   | WALL MOUNTED EXIT SIGN                               |   |   |
| ⊕   | CEILING MOUNTED EXIT SIGN                            |   |   |
|     |  | ⊗ | CEILING FAN   |

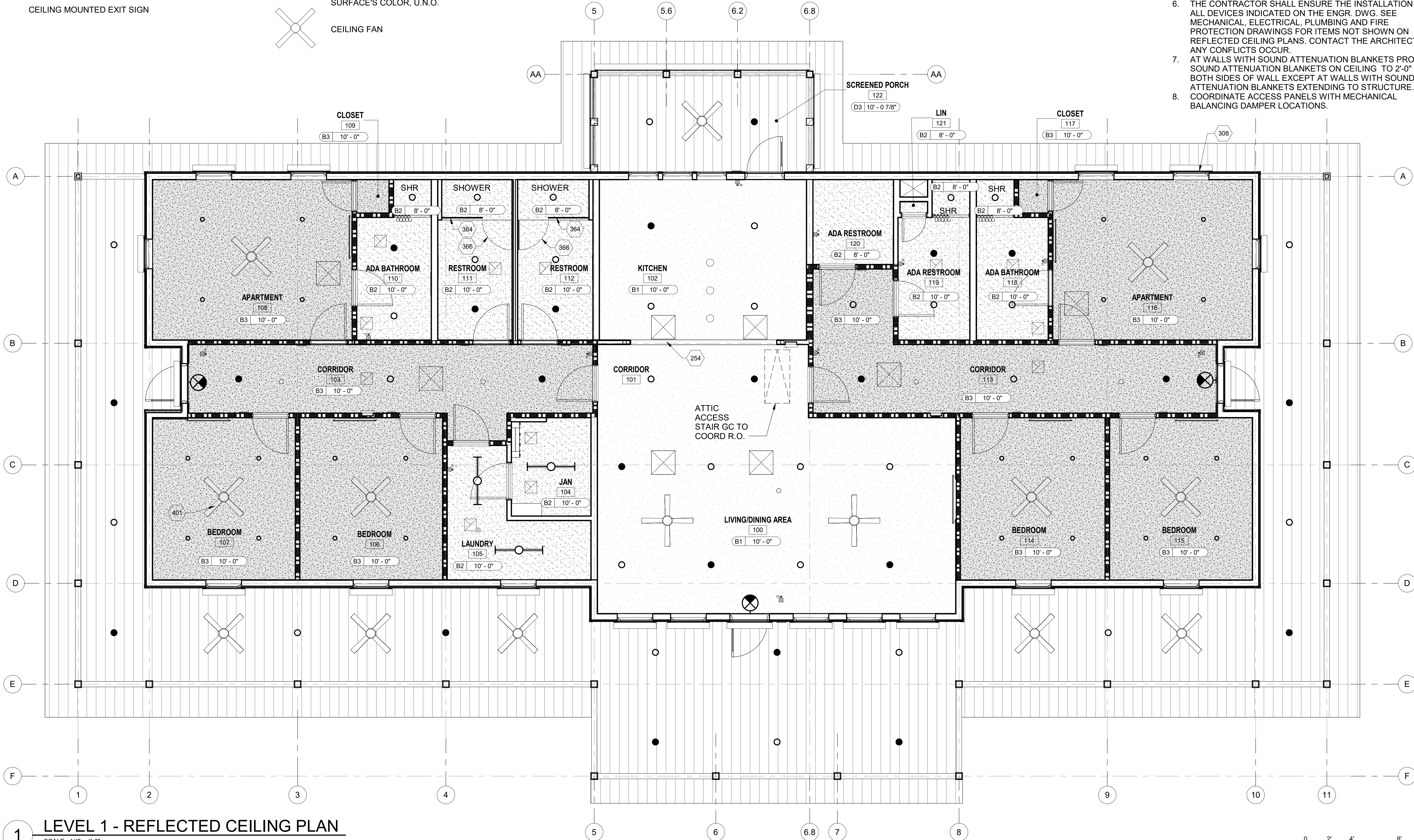
- |    |   |
|----|---|
| B1 | 5/8" GYPSUM BOARD                           |
| B2 | 5/8" WATER- RESISTANT GYPSUM BOARD          |
| B3 | 5/8" 1 HOUR FIRE-RATED GYPSUM BOARD UL P522 |
| D3 | EXTERIOR CEMENT BOARD PANEL SOFFIT          |

## KEYNOTES

- |     |  |
|-----|--|
| 254 | 9FT AFF GWB WRAPPED BEAM AT OPENING                                  |
| 308 | MANUAL ROLL-DOWN HURRICANE SHUTTERS W/ INTERIOR CRANK WHERE POSSIBLE |
| 364 | LOW GWB WALL WITH SOLID SURFACE CAP & 3/8"THK TEMP GLASS ABOVE       |
| 366 | FRAMELESS TEMPERED GLASS SHOWER DOOR 3/8" CEILING FAN                |

## SHEET NOTES

- ALL MATERIAL EXPOSED WITHIN A RETURN AIR CEILING PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL BE LIMITED IN COMBUSTIBILITY AND HAVE A FLAME SPREAD INDEX OF 25 MAX. AND A SMOKE- DEVELOPMENT INDEX OF 50 MAX., PER ASTM E84.
- IN RESTROOMS, LOCKER ROOMS AND JANITOR CLOSETS ALL GYPSUM BOARD CEILINGS SHALL BE WATER RESISTANT GYPSUM BOARD.
- COORDINATE THE LOCATION OF THE SPRINKLER HEADS WITH OTHER CEILING FIXTURES AND EQUIPMENT IN ALL CEILING. ENSURE THAT A SYMMETRICAL AND BALANCED ARRANGEMENT IS INSTALLED.
- CEILING HEIGHTS INDICATED (I.E. 9'-0") ARE RELATIVE TO THE FINISH FLOOR ELEVATION OF THE ROOM FOR WHICH THEY ARE INDICATED.
- DEVICES HAVE BEEN SHOWN FOR COORDINATION PURPOSES. ALL DEVICES MAY NOT BE SHOWN.
- THE CONTRACTOR SHALL ENSURE THE INSTALLATION OF ALL DEVICES INDICATED ON THE ENGR. DWG. SEE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ITEMS NOT SHOWN ON REFLECTED CEILING PLANS. CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR.
- AT WALLS WITH SOUND ATTENUATION BLANKETS PROVIDE SOUND ATTENUATION BLANKETS ON CEILING TO 2'-0" ON BOTH SIDES OF WALL EXCEPT AT WALLS WITH SOUND ATTENUATION BLANKETS EXTENDING TO STRUCTURE.
- COORDINATE ACCESS PANELS WITH MECHANICAL BALANCING DAMPER LOCATIONS.



1

## LEVEL 1 - REFLECTED CEILING PLAN

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

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

3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

## CLIENT INFORMATION



U.S. Fish &amp; Wildlife Service

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27

Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

## SHEET TITLE

REFLECTED  
CEILING PLAN

## SHEET NUMBER

A-131

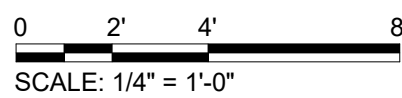
ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



## SHEET NOTES

1. ROOF MATERIALS & INSTALLATION SHALL COMPLY WITH APPLICABLE CODES & STANDARDS AS SET FORTH BY THE LOCAL AUTHORITY HAVING JURISDICTION.
2. ROOF(S) SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT.
3. ROOF DRAINAGE & OVERFLOW SYSTEM SHALL BE SIZED FOR A 100 YEAR RAINFALL EVENT, AND SHALL OTHERWISE COMPLY WITH THE PLUMBING CODE.
4. ALL ROOF PENETRATIONS SHALL BE FLASHED IN ACCORDANCE WITH ROOF MANUFACTURER'S RECOMMENDATIONS AND/OR STANDARD DETAILS.
5. PROVIDE CRICKETS TO DIVERT WATER AROUND EQUIPMENT CURBS AND OTHER OBSTRUCTIONS, MINIMUM SLOPE AT VALLEYS TO BE 1/4" PER FOOT.



PROJECT NAME  
Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

---

**DRAWING ISSUE**

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

ROOF PLAN

SHEET NUMBER

**A-151**

---

ORIGINAL SHEET SIZE:  
24" X 36"



1

2

3

4

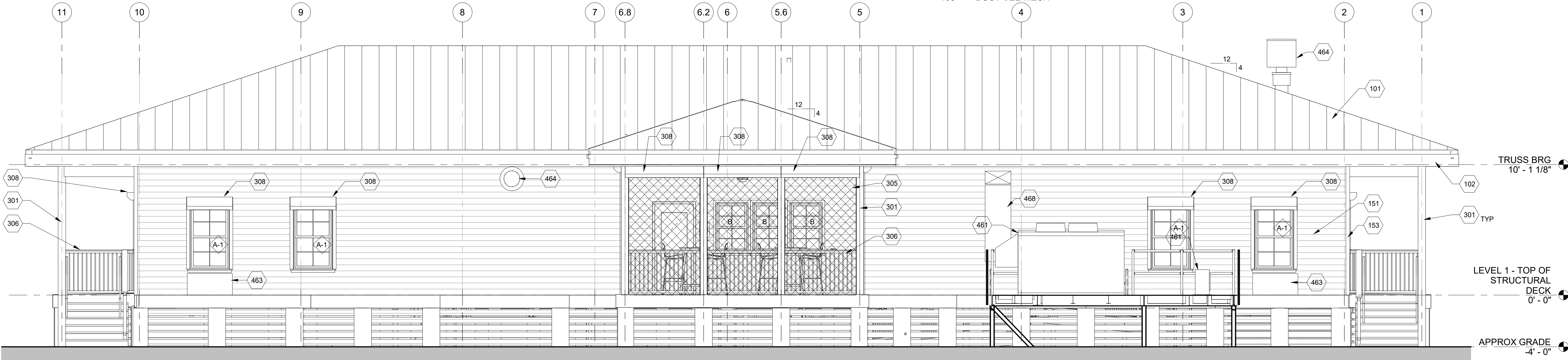
5

KEYNOTES

- 101 180 DEG MECHANICALLY SEALED STANDING SEAM METAL ROOF  
102 3/4" X 12" CEMENT BOARD FASCIA  
103 5" X 5" PREFINISHED METAL GUTTER  
104 3" X 5" PREFINISHED METAL DOWNSPOUT AND PRECAST SPLASH BLOCK  
151 FIBER CEMENT BOARD SIDING  
153 3 1/2" x 3/4" FIBER CEMENT BOARD TRIM  
253 FIBERGLASS/GLASS DOOR- PAINTED  
301 CEMENT BOARD COLUMN WRAP ON 6X6 P.T. WOOD COLUMN- REF STRUCTURAL  
304 COMPOSITE BOARD SLAT SCREEN WALL  
305 FIBERGLASS NO-SEE-UM INSECT SCREEN MESH INSTALLED ON SCREEN KIT  
306 AL GUARDRAIL WITH COMPOSITE BOARD TOP RAIL, OFF-CENTER FROM COLUMN AT SCREENED PORCH  
308 MANUAL ROLL-DOWN HURRICANE SHUTTERS W/ INTERIOR CRANK WHERE POSSIBLE  
461 MECHANICAL PLATFORM SEE MECH/STRUCT  
463 MECHANICAL UNIT  
464 EXHAUST FAN  
468 DUCT SEE MECH

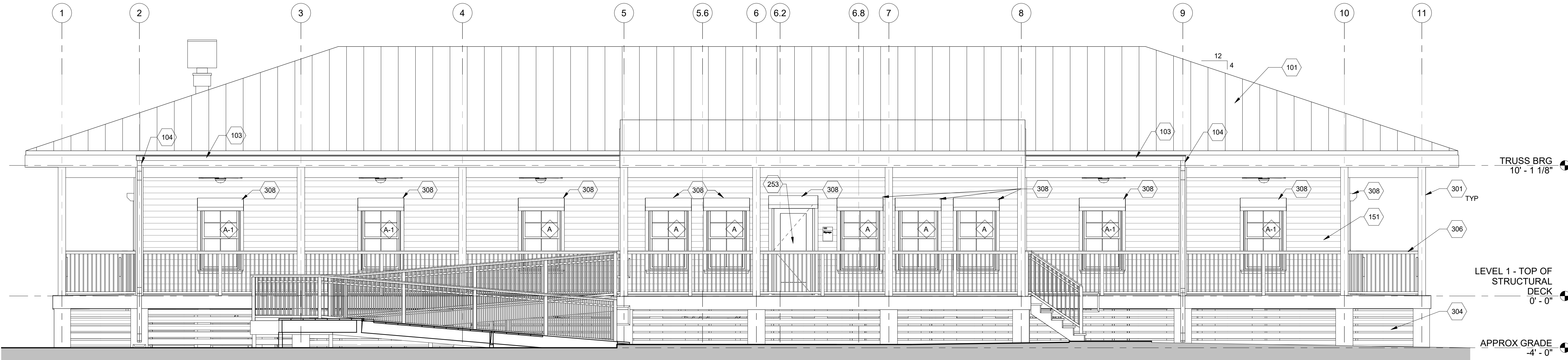
SHEET NOTES

1. SEE SHEET A-001 FOR GENERAL NOTES.  
2. SEE SHEET A-601 FOR DOOR SCHEDULE AND DOOR AND WINDOW TYPES.  
3. SEE CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.  
4. LEVEL 1 ELEVATION 0'-0" IS FOR ARCHITECTURE REFERENCE ONLY. SEE CIVIL FOR HEIGHT ABOVE SEA LEVEL.  
5. SEE PLANS AND WALL SECTIONS FOR ROUGH OPENING LOCATIONS, WINDOW & STOREFRONT TYPES.  
6. EXTERIOR WINDOW GLAZING TO BE INSULATED GL-1, EXTERIOR DOOR GLAZING TO BE TEMPERED GL-2, UNLESS NOTED OTHERWISE.  
7. VERIFY WITH AHJ FOR SITE REQUIREMENTS FOR TEMPERED INSULATED GLAZING BEFORE IMPLEMENTING.  
8. FIXED INSULATED GLAZING SHALL BE CERTIFIED & LABELED WITH ITS MAX U-FACTOR & SOLAR HEAT GAIN COEFFICIENT BY AN INDEPENDENT AGENCY LICENSED BY THE NFRC (NATIONAL FENESTRATION RATING COUNCIL), IN COMPLIANCE WITH THE VALUES LISTED IN THE DESIGN CRITERIA.  
9. PROVIDE AND COORDINATE KNOX BOX LOCATION WITH FIRE DEPARTMENT AND ARCHITECT PRIOR TO INSTALLATION.  
10. VERTICAL DIMENSIONS ARE FROM FINISHED FLOOR (T.O. SLAB), UNLESS NOTED OTHERWISE.



B1 WEST ELEVATION

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



A1 EAST ELEVATION

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

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



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

EXTERIOR  
ELEVATIONS

SHEET NUMBER

A-201

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION

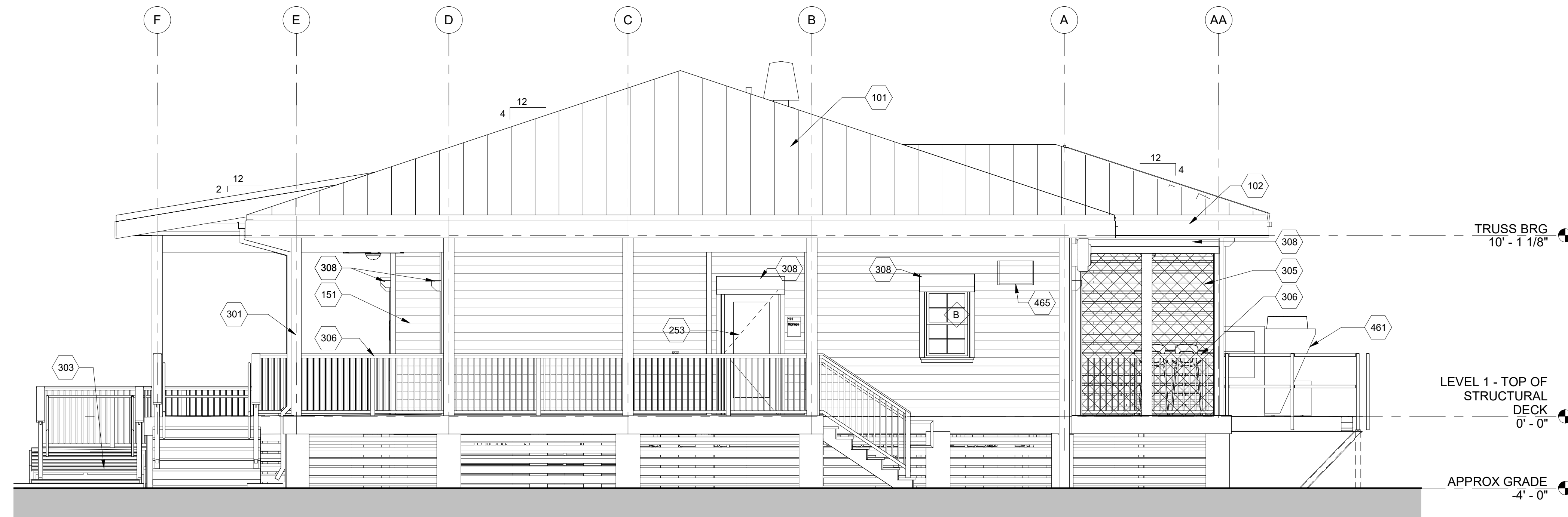


## SHEET NOTES

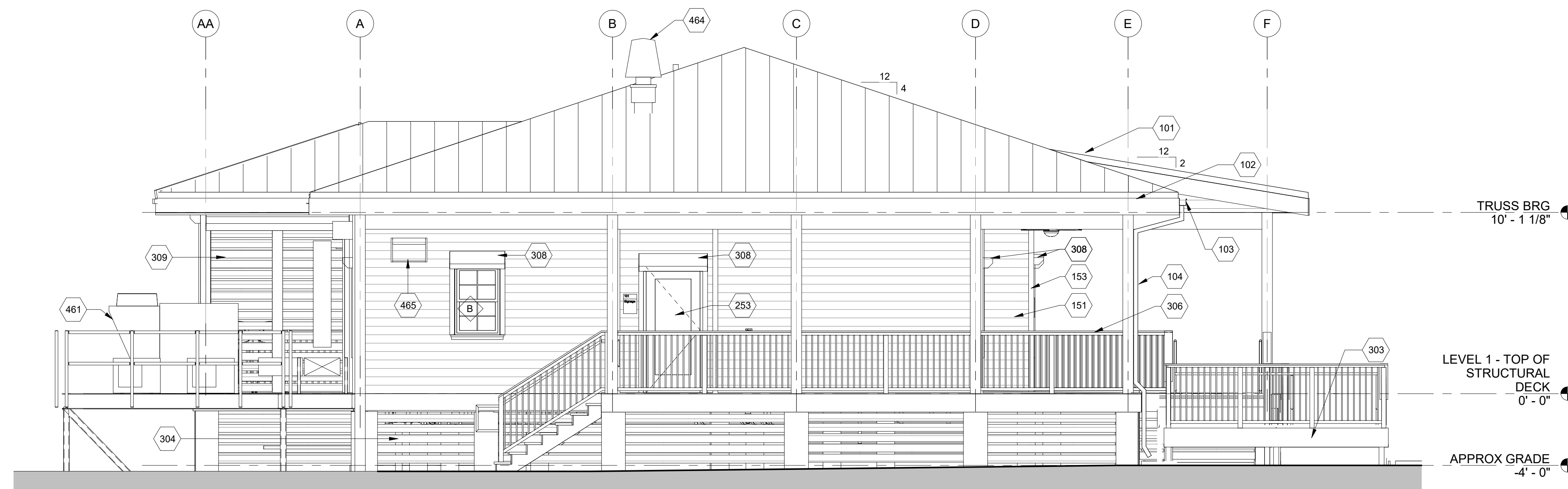
- SEE SHEET A-001 FOR GENERAL NOTES.
- SEE SHEET A-601 FOR DOOR SCHEDULE AND DOOR AND WINDOW TYPES.
- SEE CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- LEVEL 1 ELEVATION 0'-0" IS FOR ARCHITECTURE REFERENCE ONLY. SEE CIVIL FOR HEIGHT ABOVE SEA LEVEL.
- SEE PLANS AND WALL SECTIONS FOR ROUGH OPENING LOCATIONS, WINDOW & STOREFRONT TYPES.
- EXTERIOR WINDOW GLAZING TO BE INSULATED **GL-1**, EXTERIOR DOOR GLAZING TO BE TEMPERED **GL-2**, UNLESS NOTED OTHERWISE.
- VERIFY WITH AHJ FOR SITE REQUIREMENTS FOR TEMPERED INSULATED GLAZING BEFORE IMPLEMENTING.
- FIXED INSULATED GLAZING SHALL BE CERTIFIED & LABELED WITH ITS MAX U-FACTOR & SOLAR HEAT GAIN COEFFICIENT BY AN INDEPENDENT AGENCY LICENSED BY THE NFRC (NATIONAL FENESTRATION RATING COUNCIL), IN COMPLIANCE WITH THE VALUES LISTED IN THE DESIGN CRITERIA.
- PROVIDE AND COORDINATE KNOX BOX LOCATION WITH FIRE DEPARTMENT AND ARCHITECT PRIOR TO INSTALLATION.
- VERTICAL DIMENSIONS ARE FROM FINISHED FLOOR (T.O. SLAB), UNLESS NOTED OTHERWISE.

## # KEYNOTES

- |     |  |
|-----|--|
| 101 | 180 DEG MECHANICALLY SEAMED STANDING SEAM METAL ROOF                                 |
| 102 | 3/4" X 12" CEMENT BOARD FASCIA   |
| 103 | 5" X 5" PREFINISHED METAL GUTTER   |
| 104 | 3" X 5" PREFINISHED METAL DOWNSPOUT AND PRECAST SPLASH BLOCK                         |
| 151 | FIBER CEMENT BOARD SIDING  |
| 153 | 3 1/2" x 3/4" FIBER CEMENT BOARD TRIM  |
| 253 | FIBERGLASS/GLASS DOOR- PAINTED   |
| 301 | CEMENT BOARD COLUMN WRAP ON 6X6 P.T. WOOD COLUMN- REF STRUCTURAL                     |
| 303 | 2X12 P.T. ADA RAMP- PTD.   |
| 304 | COMPOSITE BOARD SLAT SCREEN WALL   |
| 305 | FIBERGLASS NO-SEE-UM INSECT SCREEN MESH INSTALLED ON SCREEN KIT                      |
| 306 | AL GUARDRAIL WITH COMPOSITE BOARD TOP RAIL, OFF-CENTER FROM COLUMN AT SCREENED PORCH |
| 308 | MANUAL ROLL-DOWN HURRICANE SHUTTERS W/ INTERIOR CRANK WHERE POSSIBLE                 |
| 309 | COMPOSITE BOARD SLAT SCREEN WITH FIBERGLASS NO-SEE-UM INSECT SCREEN                  |
| 461 | MECHANICAL PLATFORM SEE MECH/STRUCT  |
| 464 | EXHAUST FAN  |
| 465 | EXHAUST LOUVER   |



**B1 NORTH ELEVATION**  
SCALE: 1/4" = 1'-0"



**A1 SOUTH ELEVATION**  
SCALE: 1/4" = 1'-0"

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



Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

EXTERIOR  
ELEVATIONS

**A-202**



## SHEET NOTES

- SEE SHEET A-001 FOR GENERAL NOTES
- SEE SHEET A-601 FOR DOOR SCHEDULE AND DOOR & WINDOW TYPES.
- REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE LOCATION OF ALL MEP WORK, INCLUDING BUT NOT LIMITED TO LIGHTS, DIFFUSERS, PIPES AND DUCTWORK.
- ELEVATIONS GIVEN ARE RELATIVE TO GROUND LEVEL T.O. SLAB (0'-0"). SEE CIVIL FOR HEIGHT ABOVE SEA LEVEL.

**POND**3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond &amp; Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond &amp; Company.

EOR/AOR SEAL

CONSULTANT

## CLIENT INFORMATION



US Fish &amp; Wildlife Service

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
BunkhouseLA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

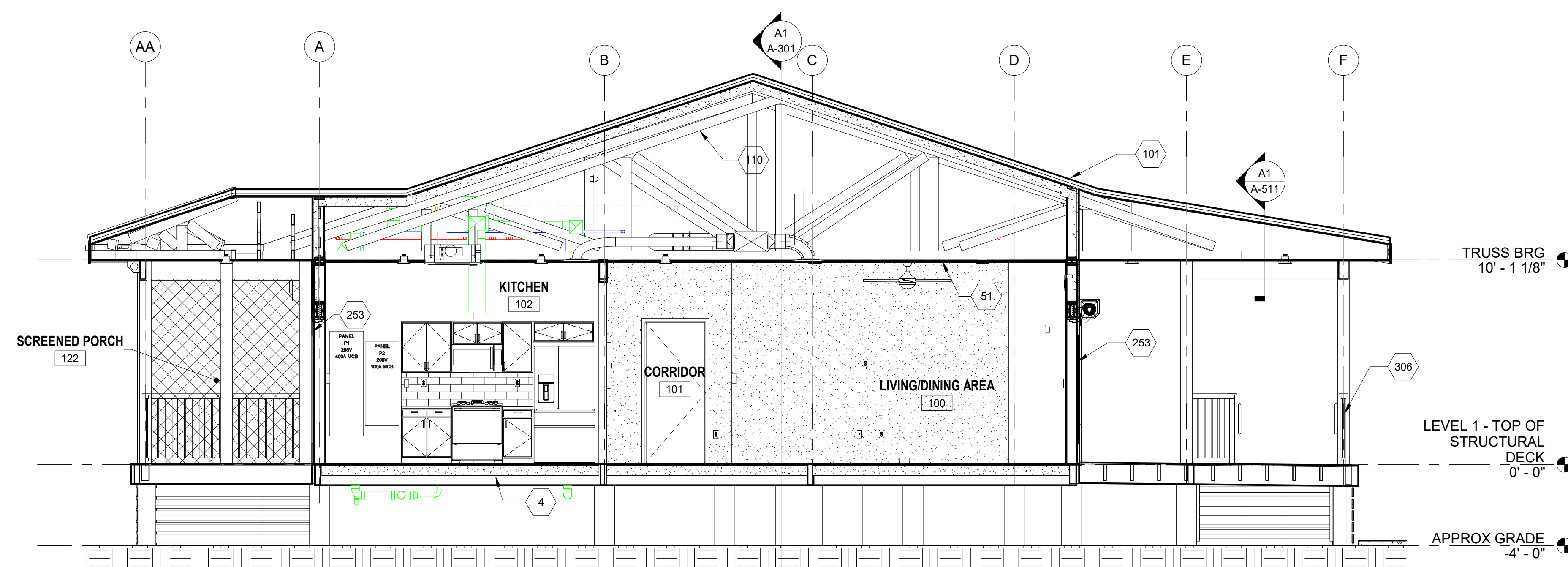
MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

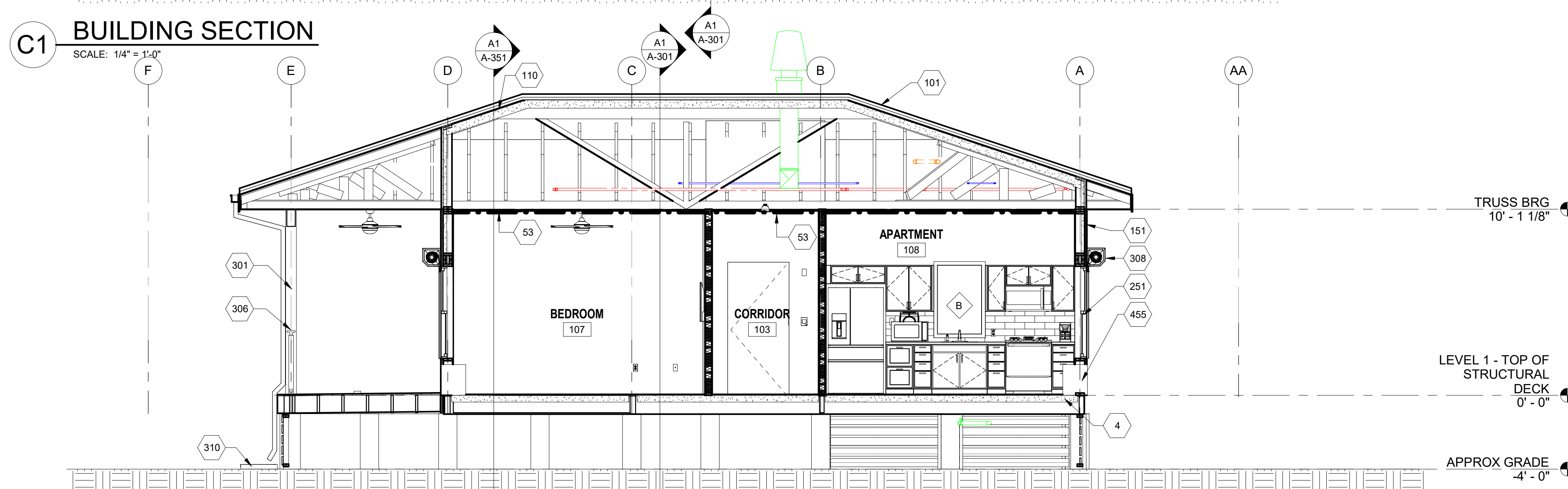
## SHEET TITLE

BUILDING  
SECTIONS

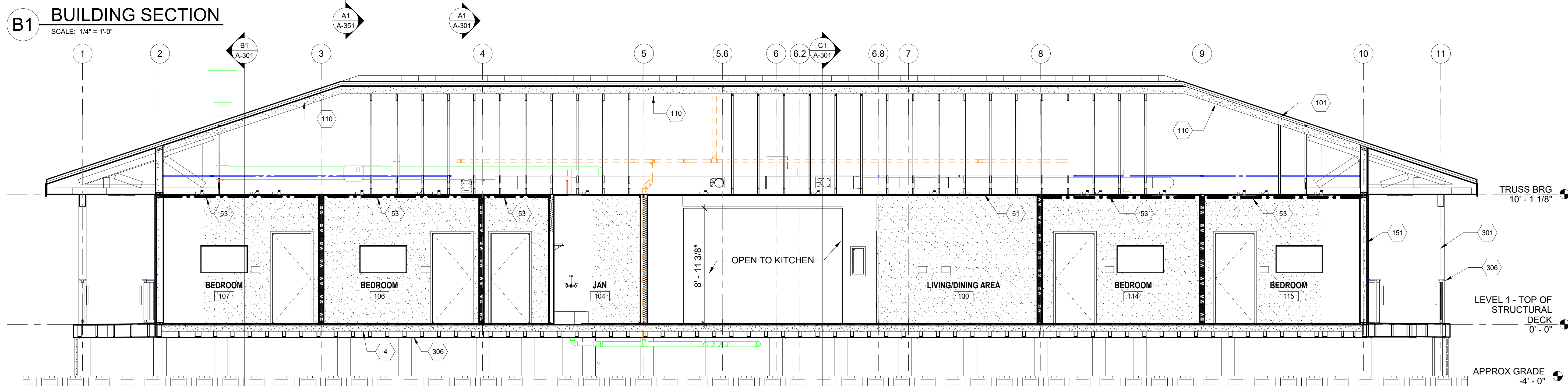
## SHEET NUMBER

**A-301**ORIGINAL SHEET SIZE:  
24" X 36"**C1 BUILDING SECTION**

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

**B1 BUILDING SECTION**

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

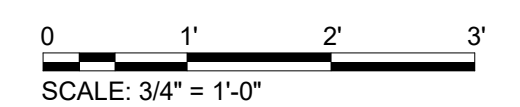
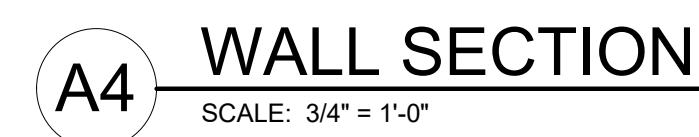
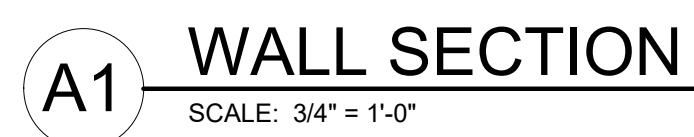
**A1 BUILDING SECTION**

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

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

100% ISSUED FOR CONSTRUCTION







1

2

3

4

5

ACCESSORY SCHEDULE

Type Mark	Description	Manufacturer	Model
CH	Surface Mounted Single Robe Hook	Bobrick	B-76717
FM	Bobrick B-165 2436 Channel Frame Mirror	Bobrick Washroom Equipment, Inc.	B-165 2436
GB-1	Bobrick B-5806x36 Straight Grab Bar	Bobrick Washroom Equipment, Inc.	B-5806x36
GB-2	Bobrick B-5806x42 Straight Grab Bar	Bobrick Washroom Equipment, Inc.	B-5806x42
GB-3	Bobrick B-5806x18 Straight Grab Bar	Bobrick Washroom Equipment, Inc.	B-5806x18
MH	Bobrick B-224 Utility Shelf with Rag Hooks and Broom Holders	Bobrick Washroom Equipment, Inc.	B-224
PTDWR	Bobrick B-3699 Classic Series Surface Mounted Combination Towel and Waste Unit	Bobrick Washroom Equipment, Inc.	B-3699
SC	Shower Curtain Rod with Shower Curtain (SC) and Hooks (SCRS)	BRADLEY CORP.	9536, 9537, 9538
TTD	Bobrick B-2740 Surface Mounted Double Toilet Tissue Dispenser	Bobrick Washroom Equipment, Inc.	B-2740

SHEET NOTES

- SEE SHEET A-001 FOR GENERAL NOTES.
- SEE SHEET A-002 FOR TYPICAL MOUNTING HEIGHTS, LOCATIONS AND DETAILS.
- SEE SHEET A-004 FOR ADA DETAILS.
- SEE SHEET A-005 FOR PARTITION TYPES.
- SEE SHEET A-401 FOR ACCESSORY SCHEDULE.
- SEE SHEET A-601 FOR DOOR SCHEDULE AND TYPES.
- SEE SHEET I-601 FOR ROOM FINISH SCHEDULE.
- DIMENSIONS OF EXTERIOR WALLS ARE TO INSIDE FACE OF STUD OR EXTERIOR FINISH FACE U.N.O.
- DIMENSIONS OF INTERIOR WALLS AND PARTITIONS ARE TO FACE OF STUD U.N.O.
- DOOR OPENINGS SHALL BE LOCATED @ 8" FROM FACE OF ADJACENT PARTITION IN CMU PARTITIONS OR 5" FROM FACE OF PARTITION IN STUD AND PANEL PARTITIONS. U.N.O.
- CONTRACTOR SHALL LOCATE BLOCKING AND BACKING AS REQUIRED FOR WALL MOUNTED EQUIPMENT, CASEWORK/MILLWORK AND FURNISHINGS

# KEYNOTES

- 153 3 1/2" x 3/4" FIBER CEMENT BOARD TRIM
- 356 STACKABLE WASHER/DRYER N.I.C.
- 357 CASEWORK SHELVING- P.LAM.
- 359 FLOOR MOUNT ADA TOILET
- 362 ADA SHOWER STALL WITH A DRAIN, SHOWER VALVE & HEAD WITH SLIDE BAR, GRAB BARS, FOLD-UP SEAT, CURATIN ROD WITH CURTAIN. BASIS OF DESIGN IS AQUATIC MODEL #1363BFSC
- 365 MOLD HOLDER W/ SHELF
- 366 FRAMELESS TEMPERED GLASS SHOWER DOOR 3/8"
- 451 WATER HEATER
- 453 SPRINKLER TANK & PUMP SYSTEM
- 455 HVAC UNIT
- 459 GFGI WALL MOUNTED COMMUNICATIONS CABINET - GC PROVIDE PLYWD BACKER
- 464 EXHAUST FAN

C1 ENLARGED PLAN

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

A1 ENLARGED PLAN

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

A3 ENLARGED PLAN

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



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



U.S. Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

ENLARGED  
FLOOR PLANS

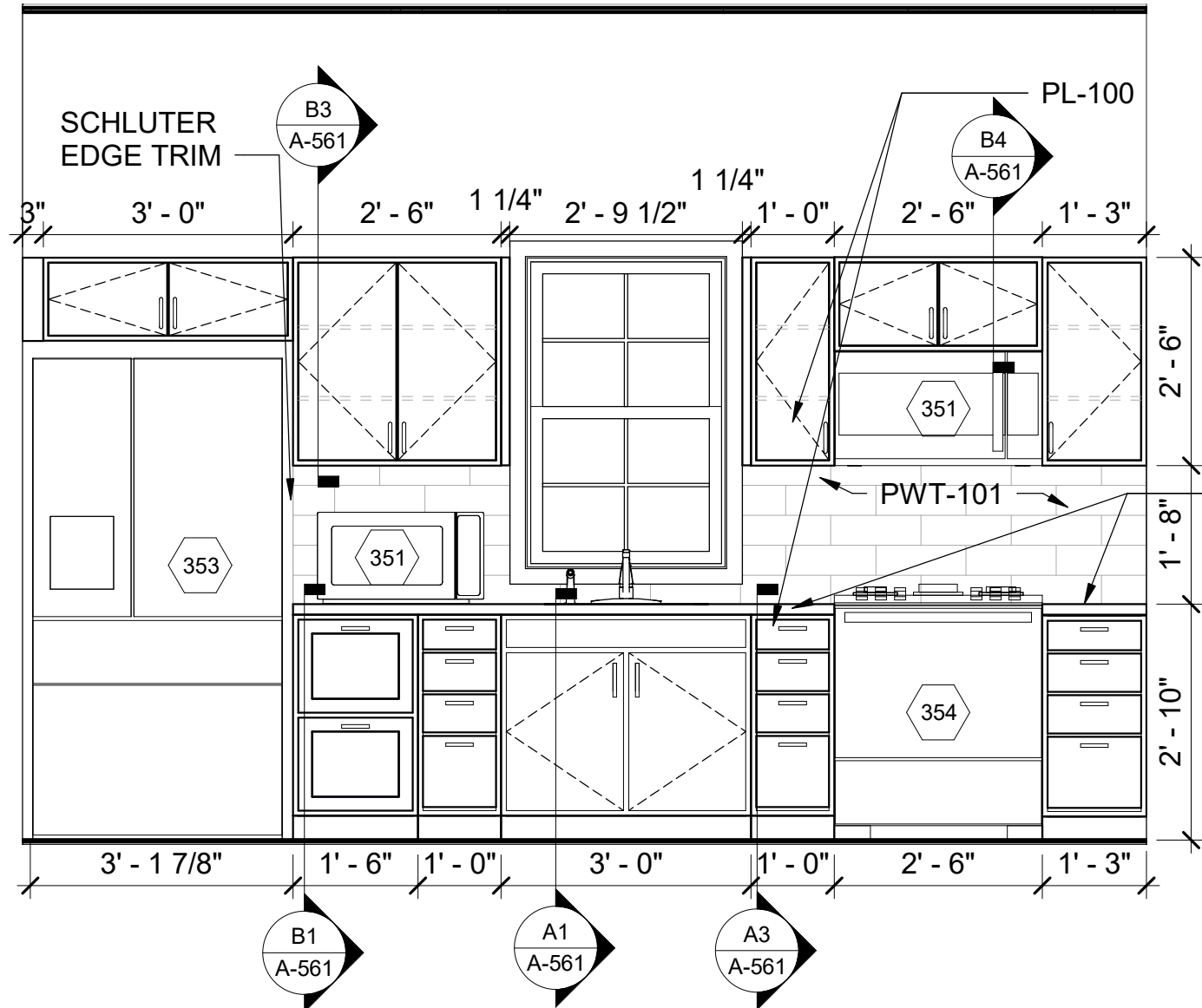
SHEET NUMBER

A-401

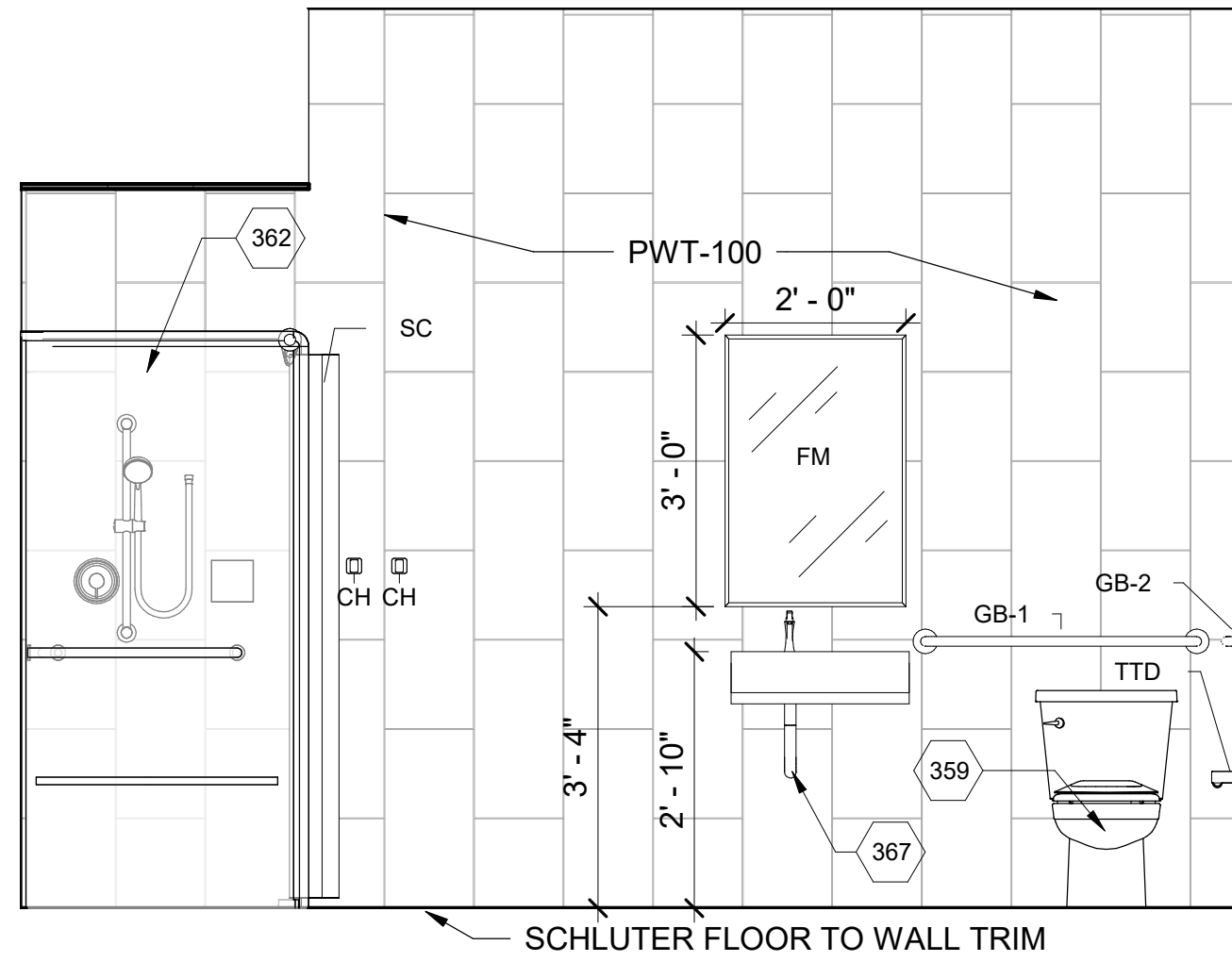
ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION

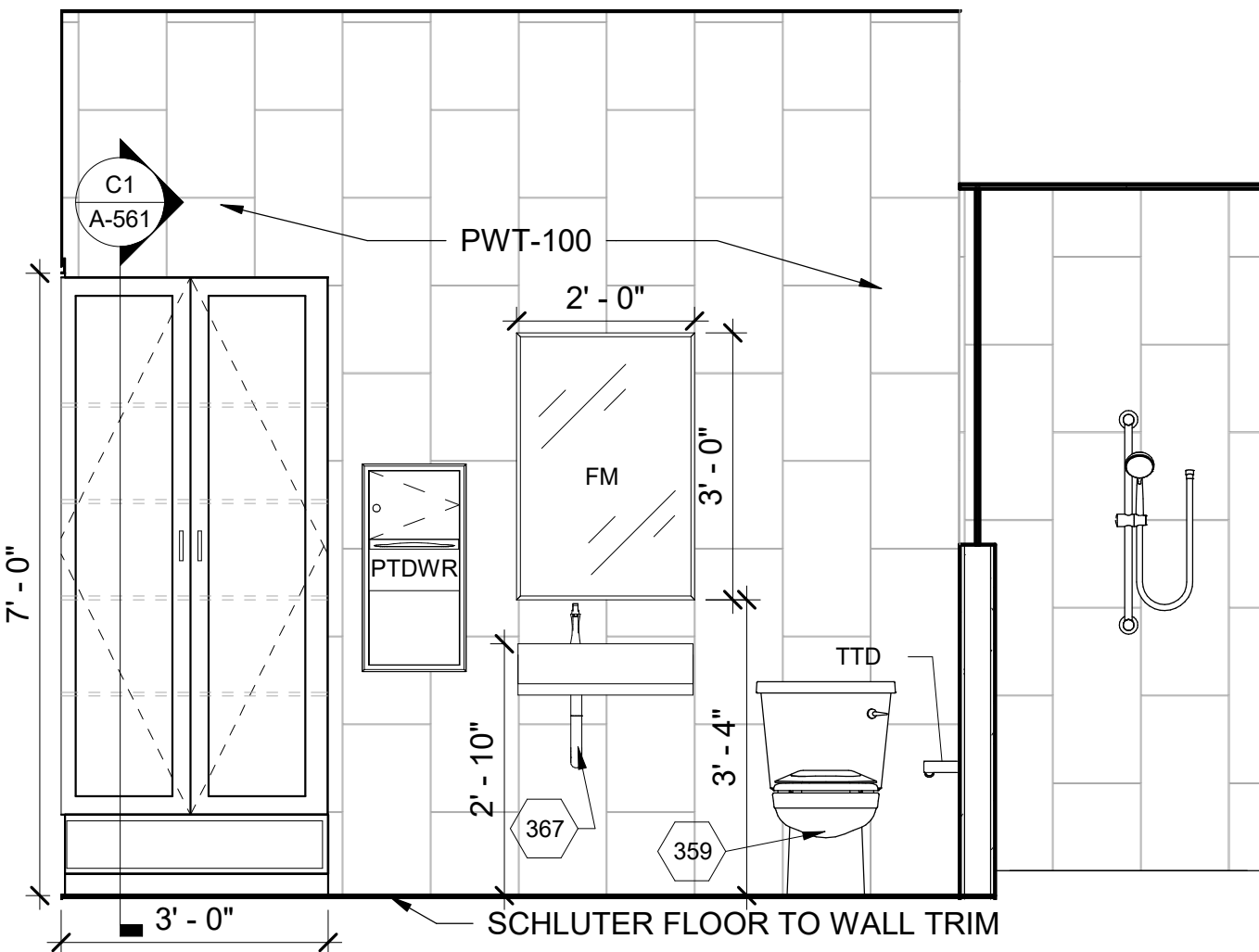




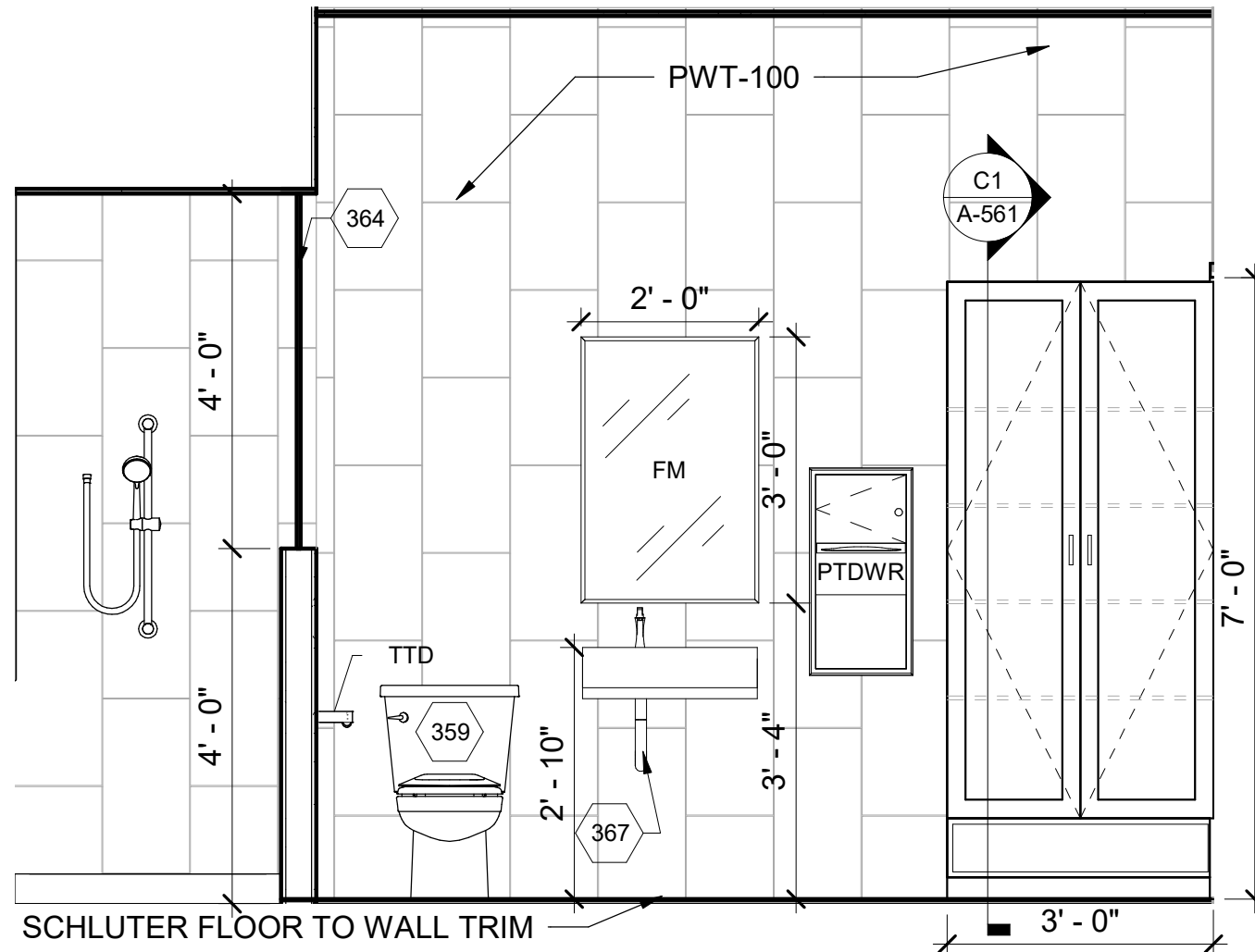
**C1** APARTMENT 108 ELEVATION  
SCALE: 1/2" = 1'-0"



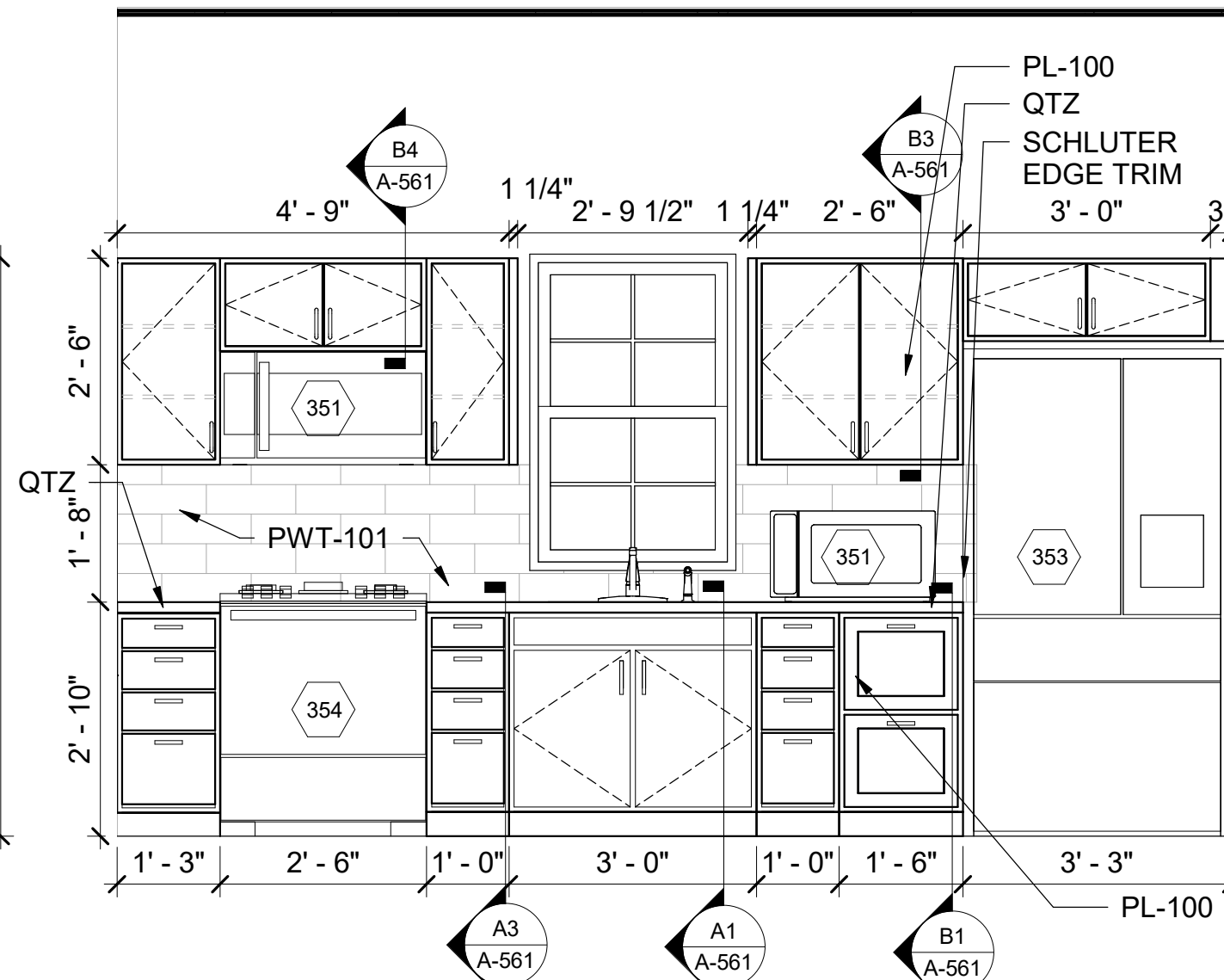
**C2** BATHROOM 110 ELEVATION - ADA  
SCALE: 1/2" = 1'-0"



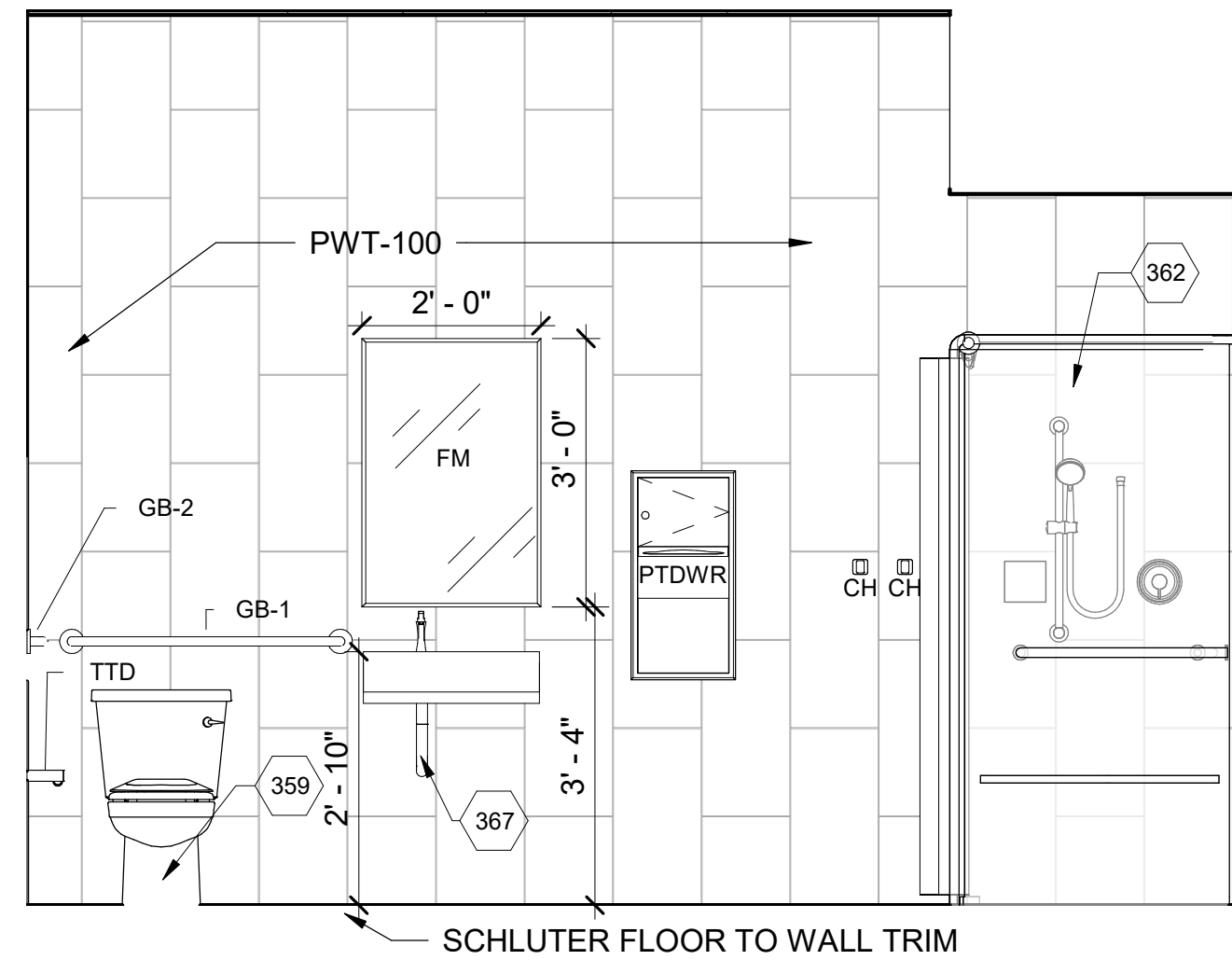
**B1** RESTROOM 111 ELEVATION  
SCALE: 1/2" = 1'-0"



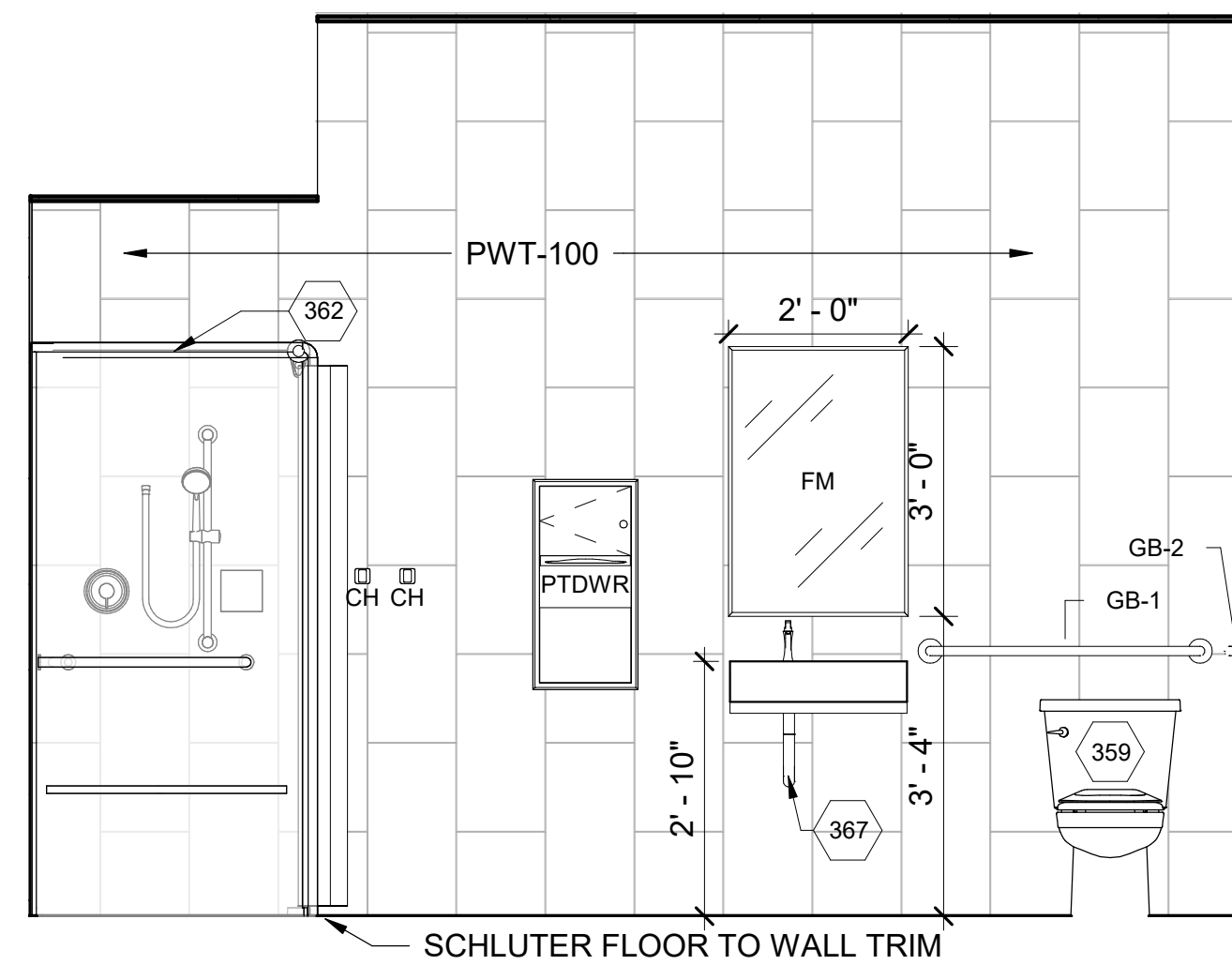
**B2** RESTROOM 112 ELEVATION  
SCALE: 1/2" = 1'-0"



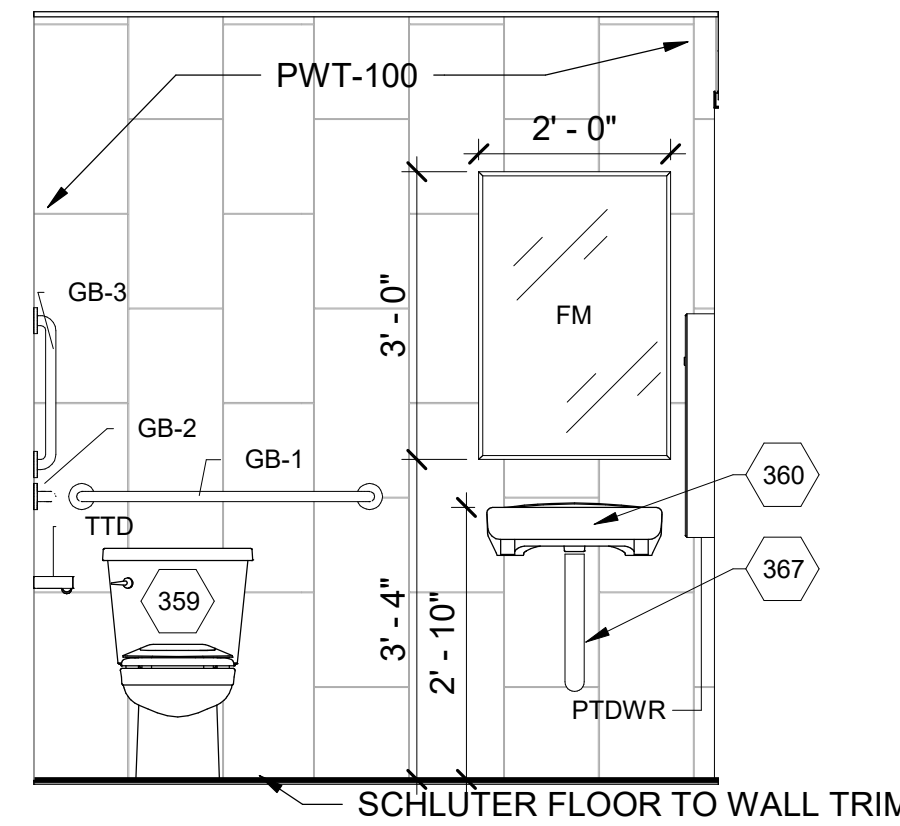
**B3** APARTMENT 116 ELEVATION  
SCALE: 1/2" = 1'-0"



**A1** BATHROOM 118 ELEVATION - ADA  
SCALE: 1/2" = 1'-0"



**A2** RESTROOM 119 ELEVATION  
SCALE: 1/2" = 1'-0"



**A3** RESTROOM 120 ELEVATION - ADA  
SCALE: 1/2" = 1'-0"

## SHEET NOTES

- SEE SHEET A-001 FOR GENERAL NOTES.
- SEE SHEET A-002 FOR TYPICAL MOUNTING HEIGHTS, LOCATIONS AND DETAILS.
- SEE SHEET A-004 FOR ADA DETAILS.
- SEE SHEET A-005 FOR PARTITION TYPES.
- SEE SHEET A-401 FOR ACCESSORY SCHEDULE.
- SEE SHEET A-601 FOR DOOR SCHEDULE AND TYPES.
- SEE SHEET I-601 FOR ROOM FINISH SCHEDULE.
- DIMENSIONS OF EXTERIOR WALLS ARE TO INSIDE FACE OF STUD OR EXTERIOR FINISH FACE U.N.O.
- DIMENSIONS OF INTERIOR WALLS AND PARTITIONS ARE TO FACE OF STUD U.N.O.
- DOOR OPENINGS SHALL BE LOCATED @ 8" FROM FACE OF ADJACENT PARTITION IN CMU PARTITIONS OR 5" FROM FACE OF PARTITION IN STUD AND PANEL PARTITIONS. U.N.O.
- CONTRACTOR SHALL LOCATE BLOCKING AND BACKING AS REQUIRED FOR WALL MOUNTED EQUIPMENT, CASEWORK/MILLWORK AND FURNISHINGS

## # KEYNOTES

- |     |  |
|-----|--|
| 351 | MICROWAVE N.I.C.   |
| 353 | REFRIGERATOR N.I.C.  |
| 354 | RESIDENTIAL STOVE & RANGE N.I.C.   |
| 359 | FLOOR MOUNT ADA TOILET   |
| 360 | WALL-MOUNTED LAVATORY  |
| 362 | ADA SHOWER STALL WITH A DRAIN, SHOWER VALVE & HEAD WITH SLIDE BAR, GRAB BARS, FOLD-UP SEAT, CURTAIN ROD WITH CURTAIN. BASIS OF DESIGN IS AQUATIC MODEL #1363BFSC |
| 364 | LOW GWB WALL WITH SOLID SURFACE CAP & 3/8"THK TEMP GLASS ABOVE   |
| 367 | ADA PIPE COVER   |



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

## CLIENT INFORMATION



U.S. Fish & Wildlife Service

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

## SHEET TITLE

INTERIOR  
ELEVATIONS

## SHEET NUMBER

A-431

ORIGINAL SHEET SIZE:  
24" X 36"

0 1' 2' 4'  
SCALE: 1/2" = 1'-0"

100% ISSUED FOR CONSTRUCTION



## SHEET NOTES

- SEE SHEET A-001 FOR GENERAL NOTES.
- SEE SHEET A-002 FOR TYPICAL MOUNTING HEIGHTS, LOCATIONS AND DETAILS.
- SEE SHEET A-004 FOR ADA DETAILS.
- SEE SHEET A-005 FOR PARTITION TYPES.
- SEE SHEET A-401 FOR ACCESSORY SCHEDULE.
- SEE SHEET A-601 FOR DOOR SCHEDULE AND TYPES.
- SEE SHEET I-601 FOR ROOM FINISH SCHEDULE.
- DIMENSIONS OF EXTERIOR WALLS ARE TO INSIDE FACE OF STUD OR EXTERIOR FINISH FACE U.N.O.
- DIMENSIONS OF INTERIOR WALLS AND PARTITIONS ARE TO FACE OF STUD U.N.O.
- DOOR OPENINGS SHALL BE LOCATED @ 8" FROM FACE OF ADJACENT PARTITION IN CMU PARTITIONS OR 5" FROM FACE OF PARTITION IN STUD AND PANEL PARTITIONS. U.N.O.
- CONTRACTOR SHALL LOCATE BLOCKING AND BACKING AS REQUIRED FOR WALL MOUNTED EQUIPMENT, CASEWORK/MILLWORK AND FURNISHINGS

## # KEYNOTES

- |     |                                  |
|-----|----------------------------------|
| 351 | MICROWAVE N.I.C.                 |
| 352 | DISHWASHER N.I.C.                |
| 353 | REFRIGERATOR N.I.C.              |
| 354 | RESIDENTIAL STOVE & RANGE N.I.C. |
| 358 | DOUBLE COMPARTMENT SINK          |

## CLIENT INFORMATION



US Fish &amp; Wildlife Service

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
BunkhouseLA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

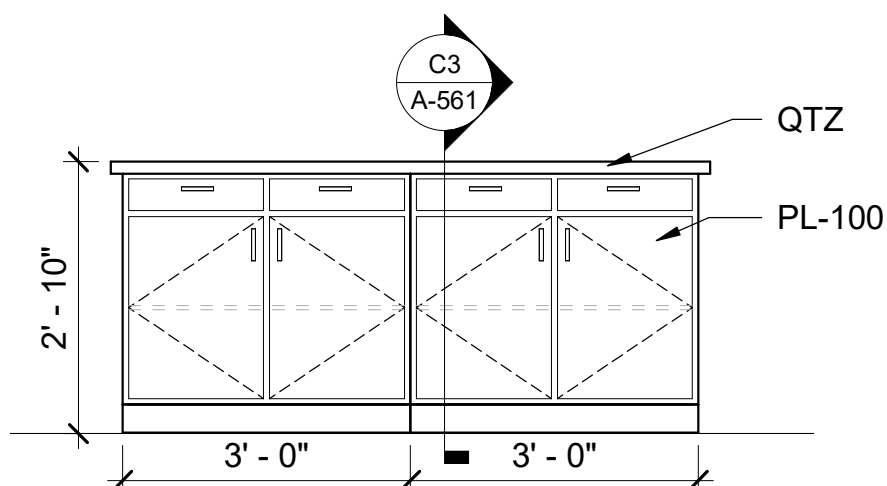
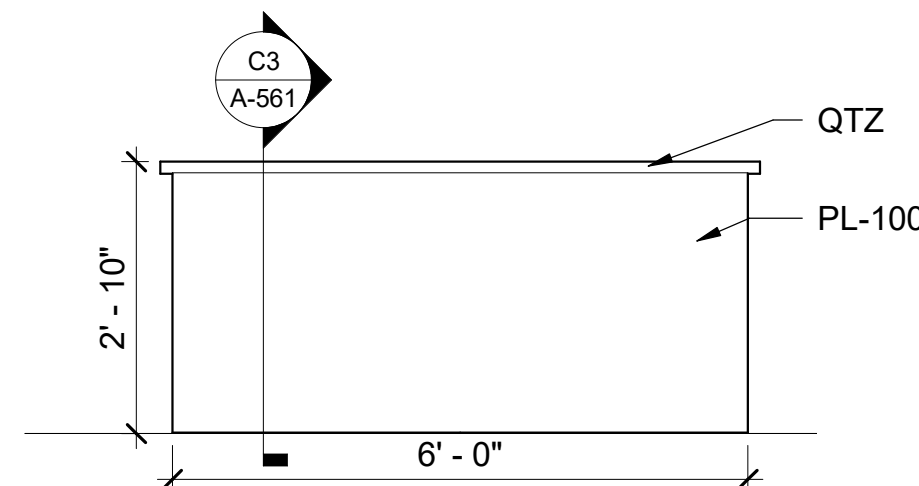
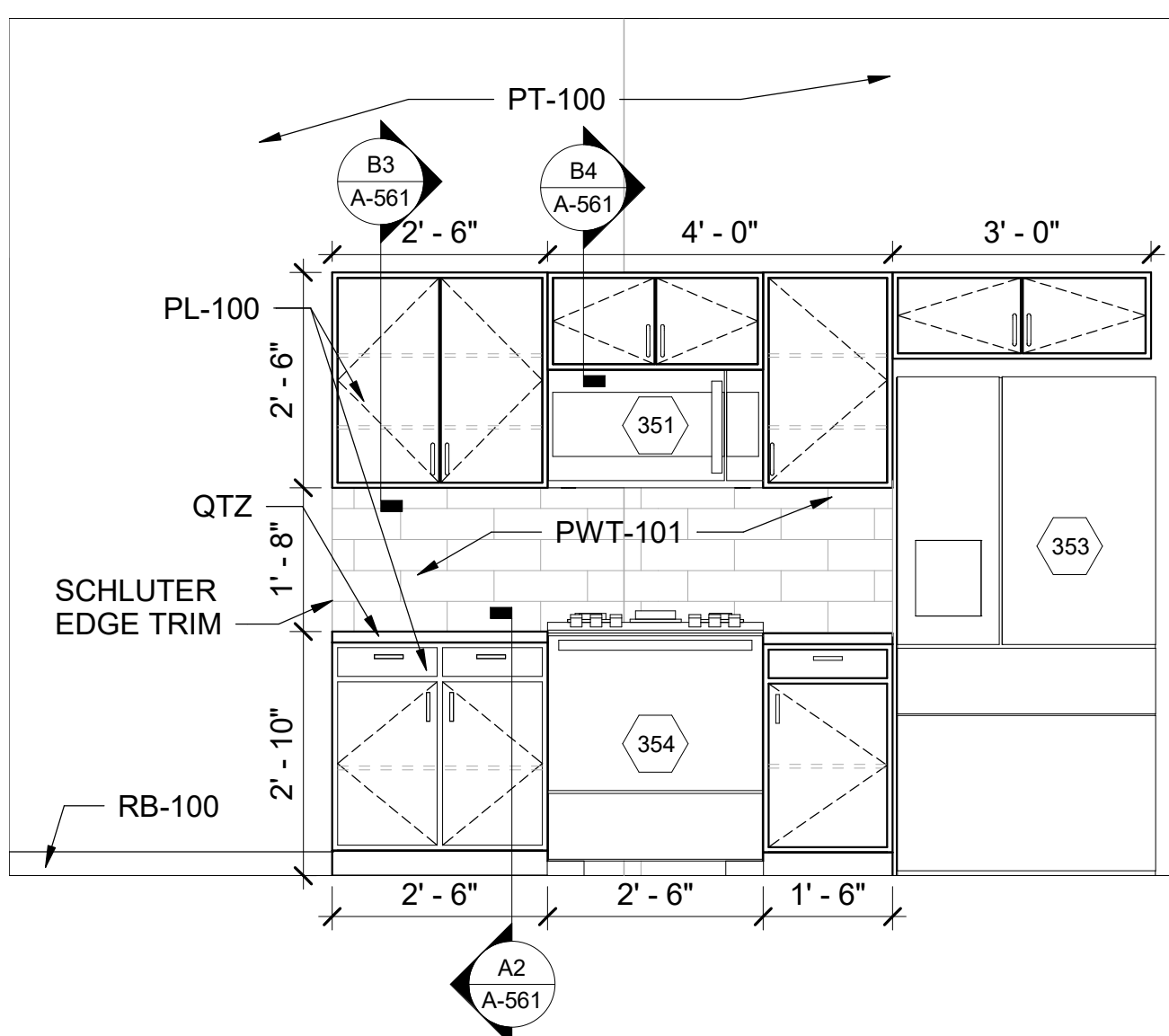
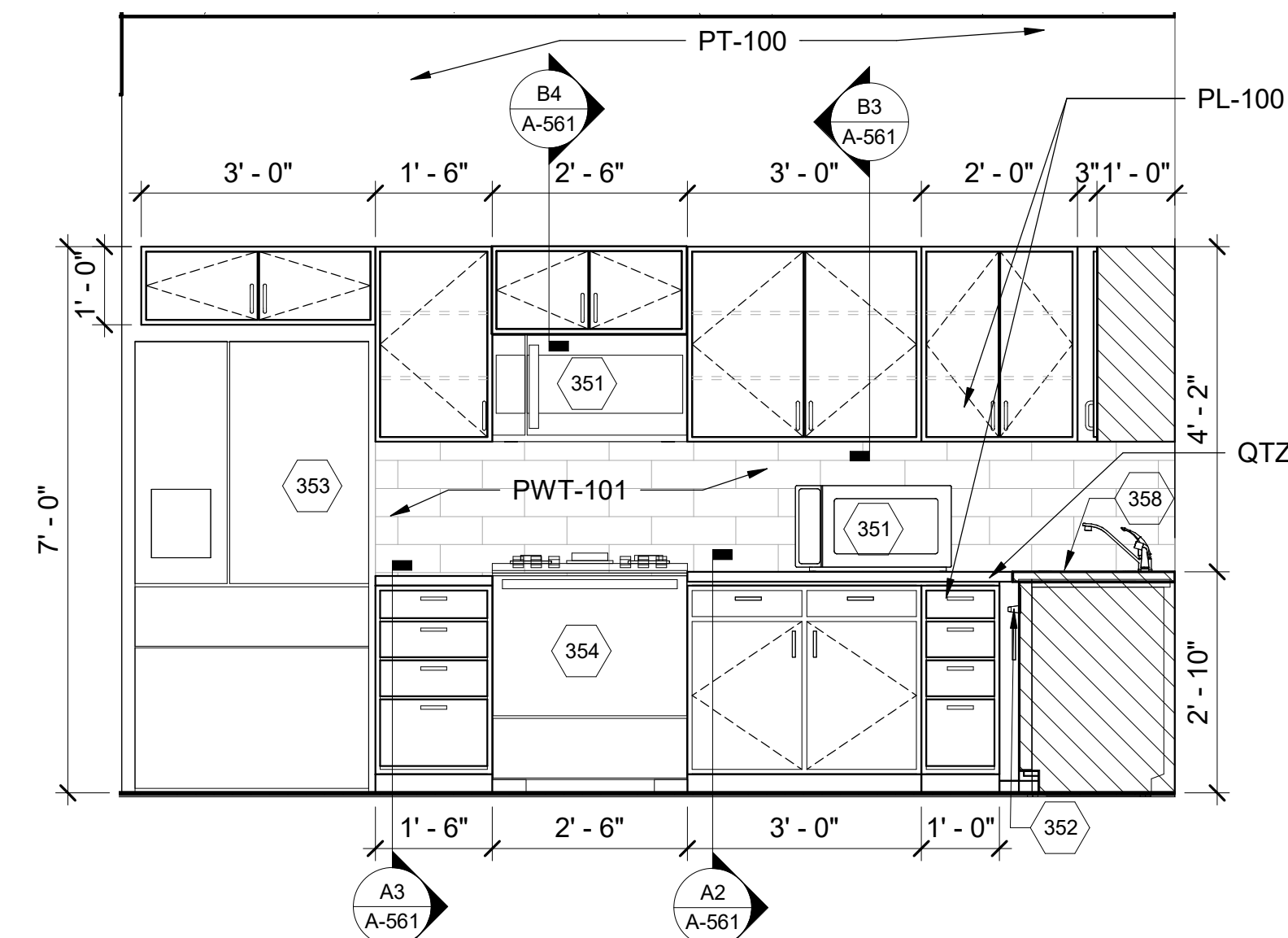
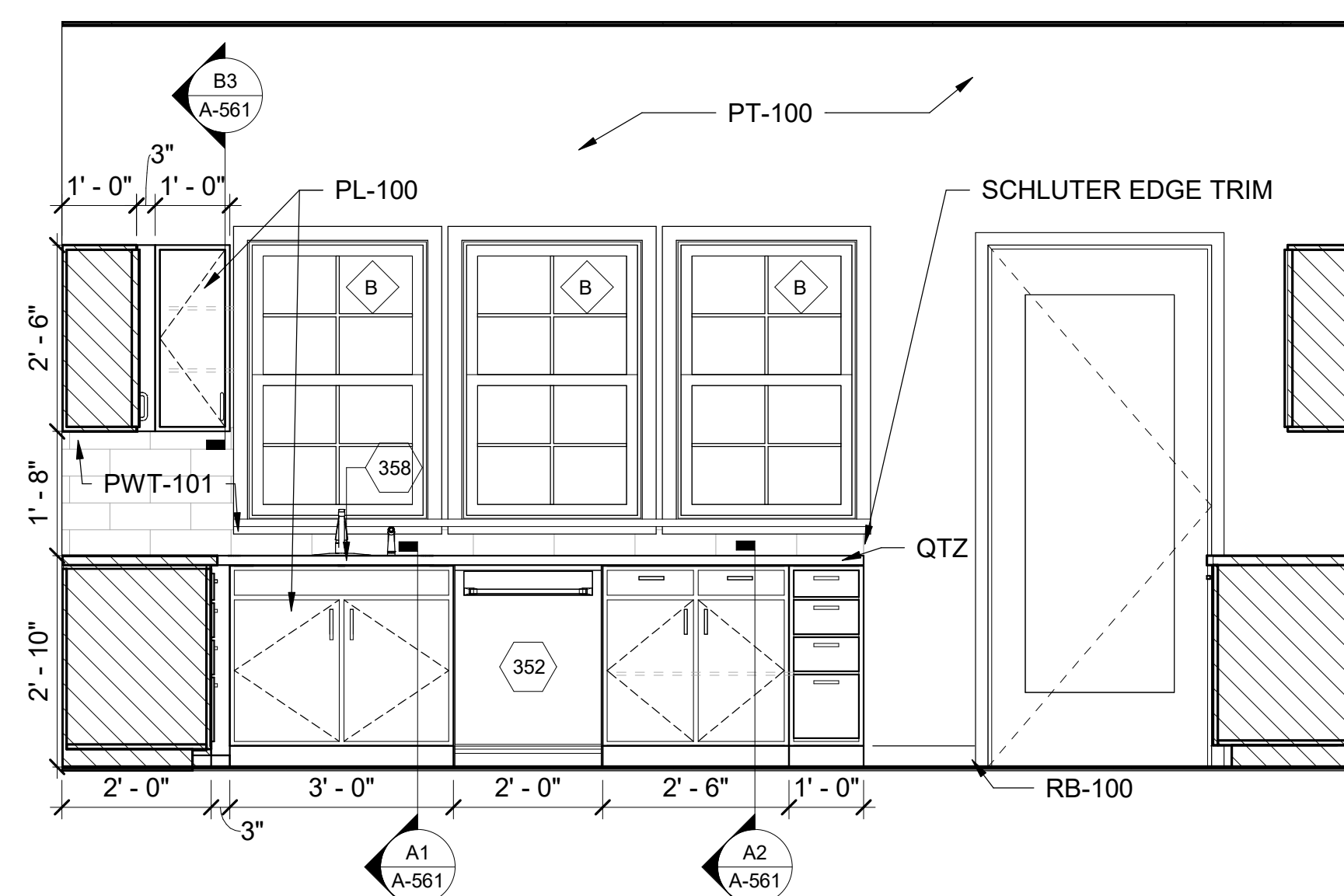
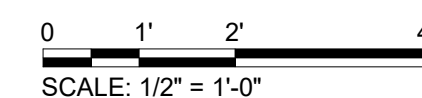
DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

## SHEET TITLE

INTERIOR  
ELEVATIONS

## SHEET NUMBER

A-432

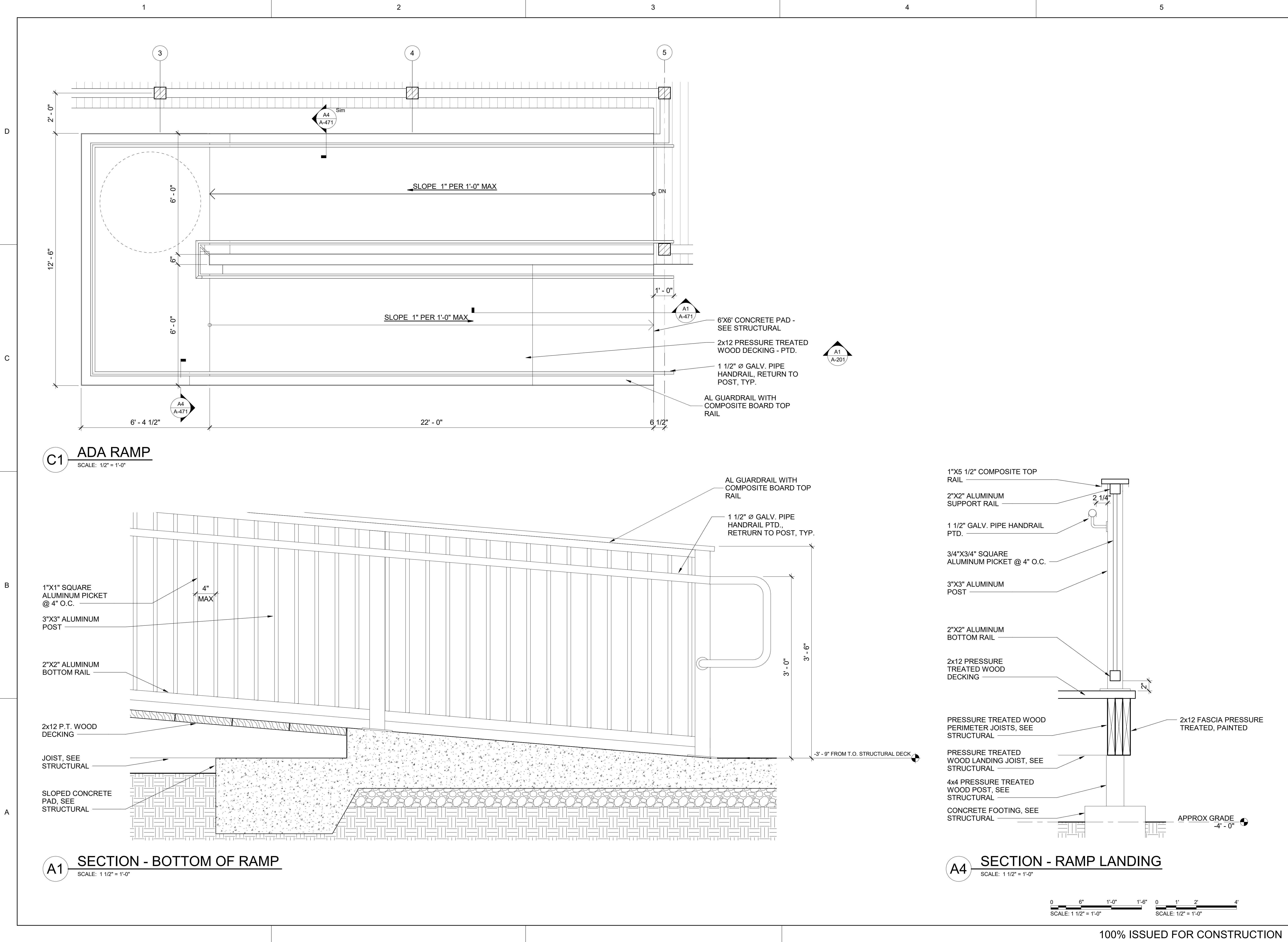
ORIGINAL SHEET SIZE:  
24" X 36"B1 KITCHEN ISLAND NORTH ELEVATION  
SCALE: 1/2" = 1'-0"B2 KITCHEN ISLAND SOUTH ELEVATION  
SCALE: 1/2" = 1'-0"A1 MAIN KITCHEN NORTH ELEVATION  
SCALE: 1/2" = 1'-0"A2 MAIN KITCHEN SOUTH ELEVATION  
SCALE: 1/2" = 1'-0"A4 MAIN KITCHEN WEST ELEVATION  
SCALE: 1/2" = 1'-0"

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

100% ISSUED FOR CONSTRUCTION



2/10/2025 11:53:08 AM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_ARCH\_V21.rvt



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

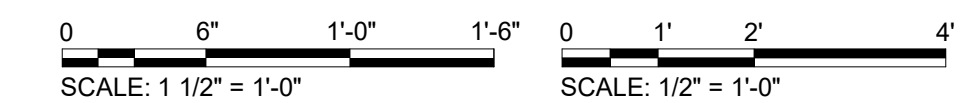
SHEET TITLE

VERTICAL  
CIRCULATION  
PLANS

SHEET NUMBER

A-471

ORIGINAL SHEET SIZE:  
24" X 36"



100% ISSUED FOR CONSTRUCTION



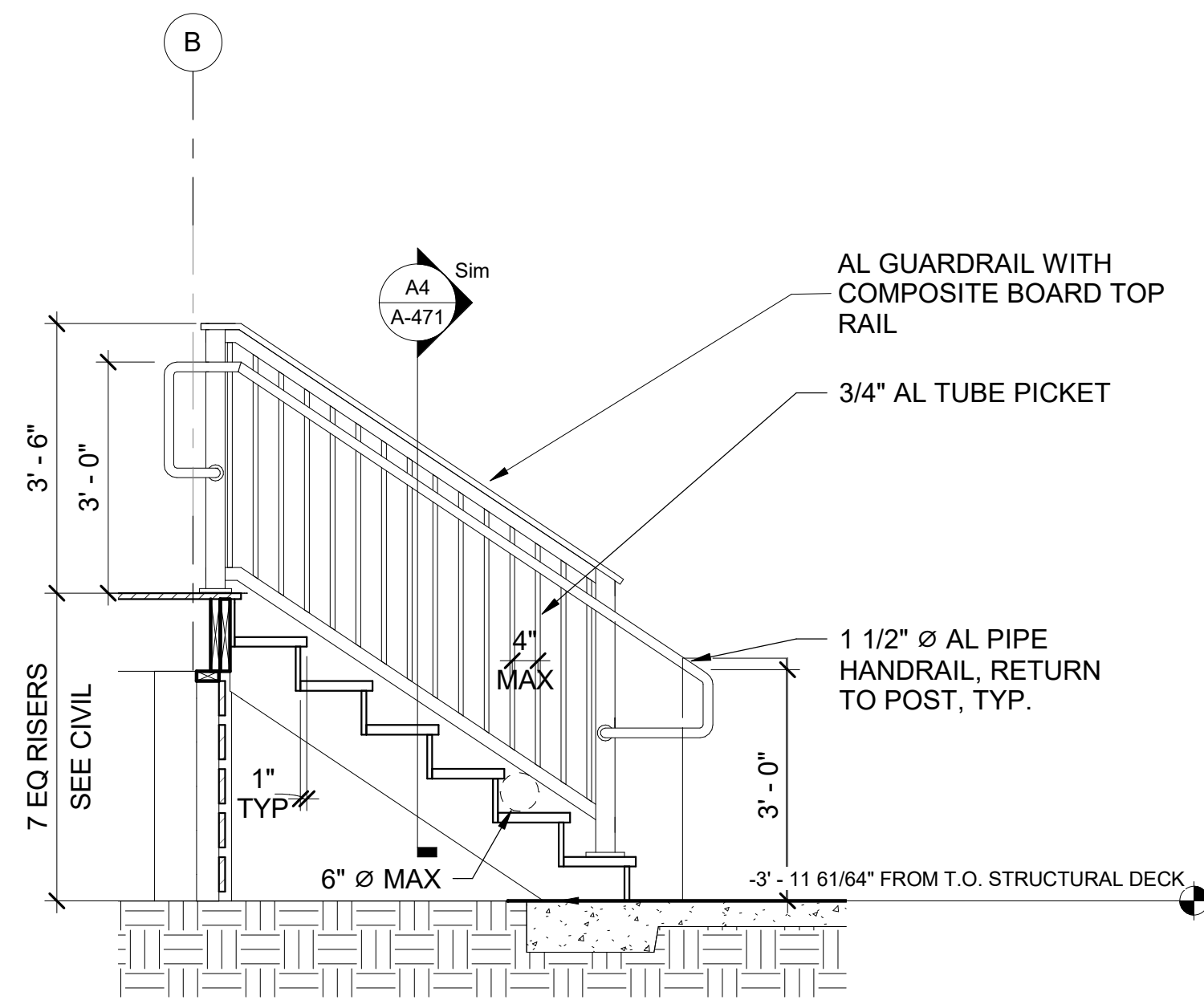
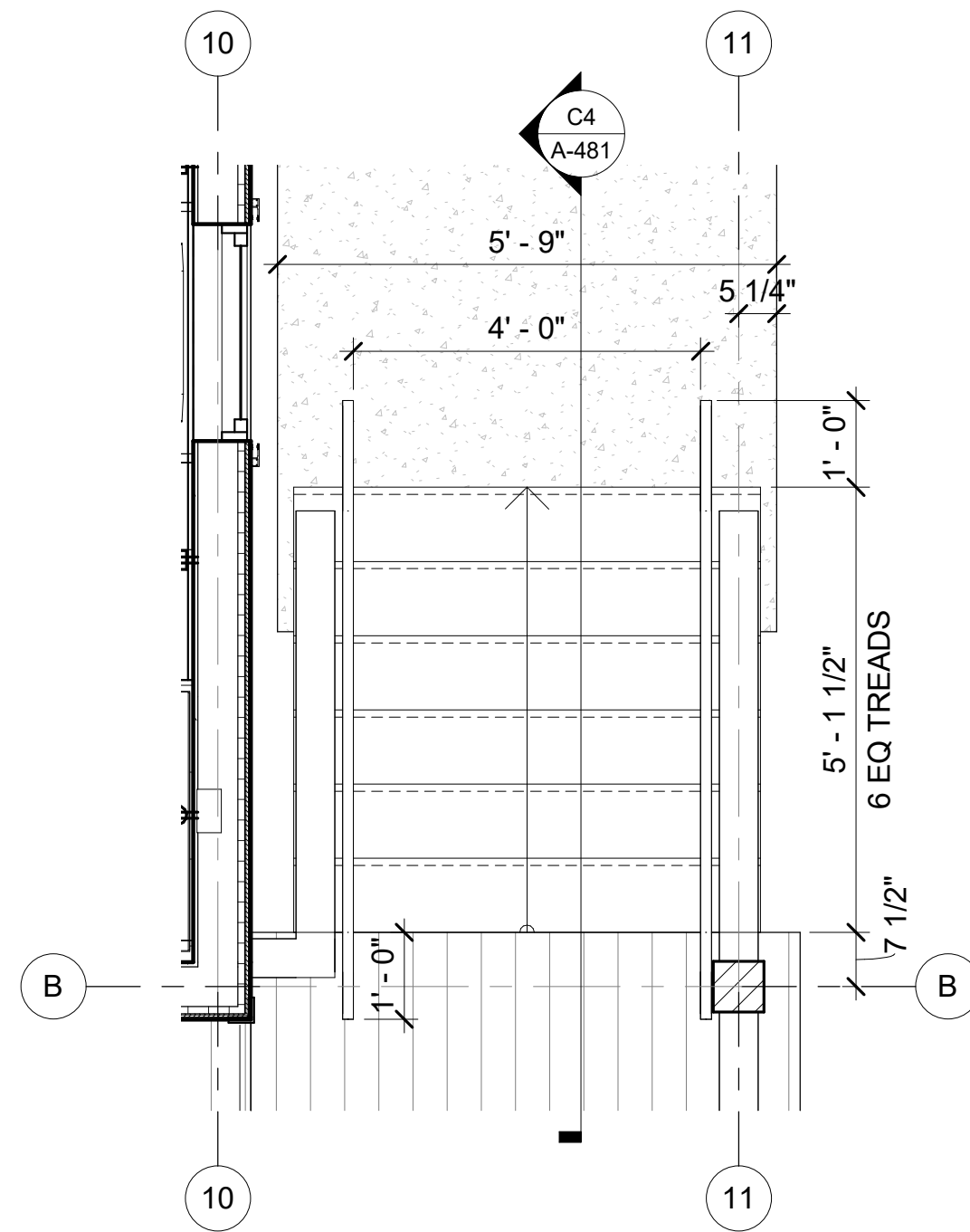
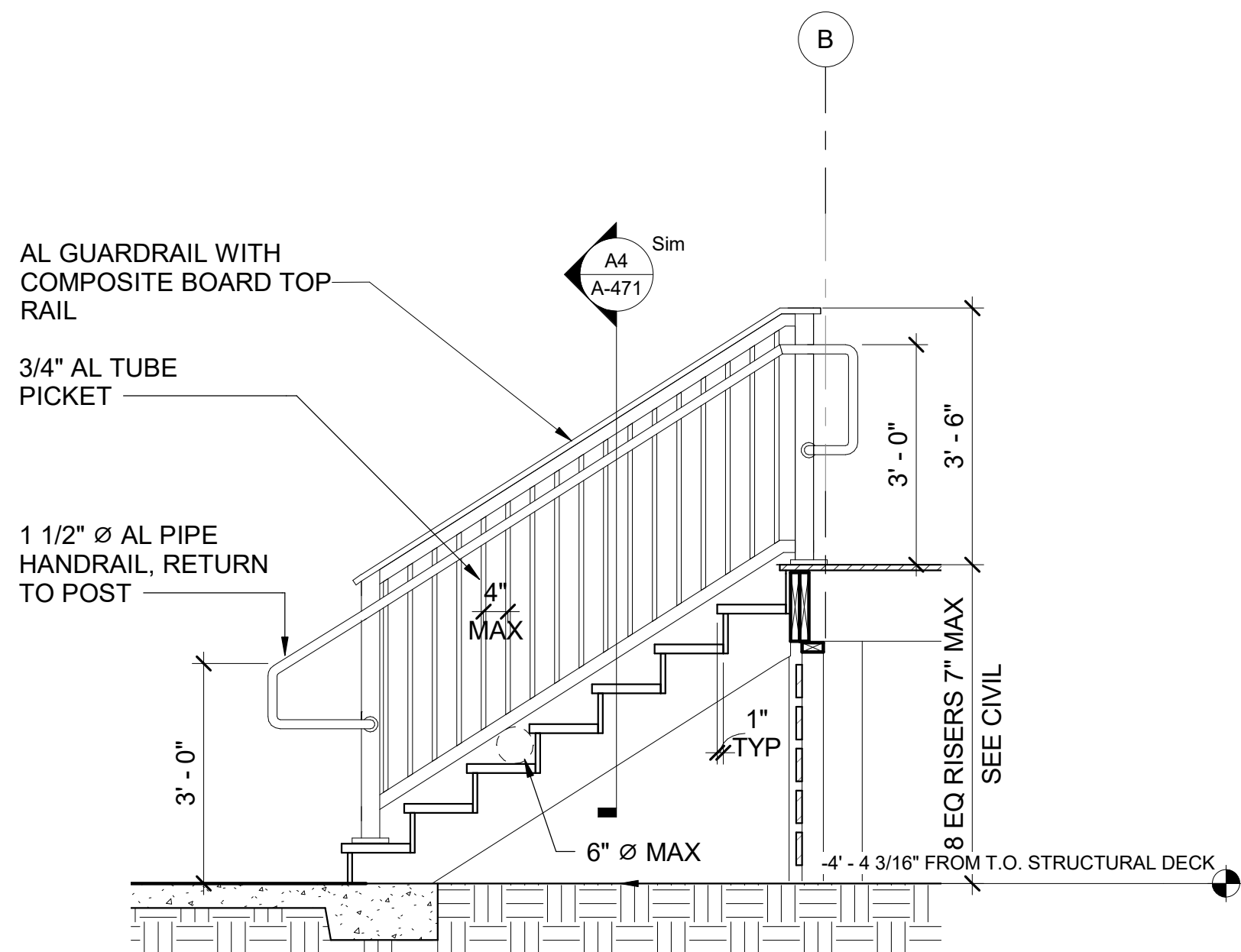
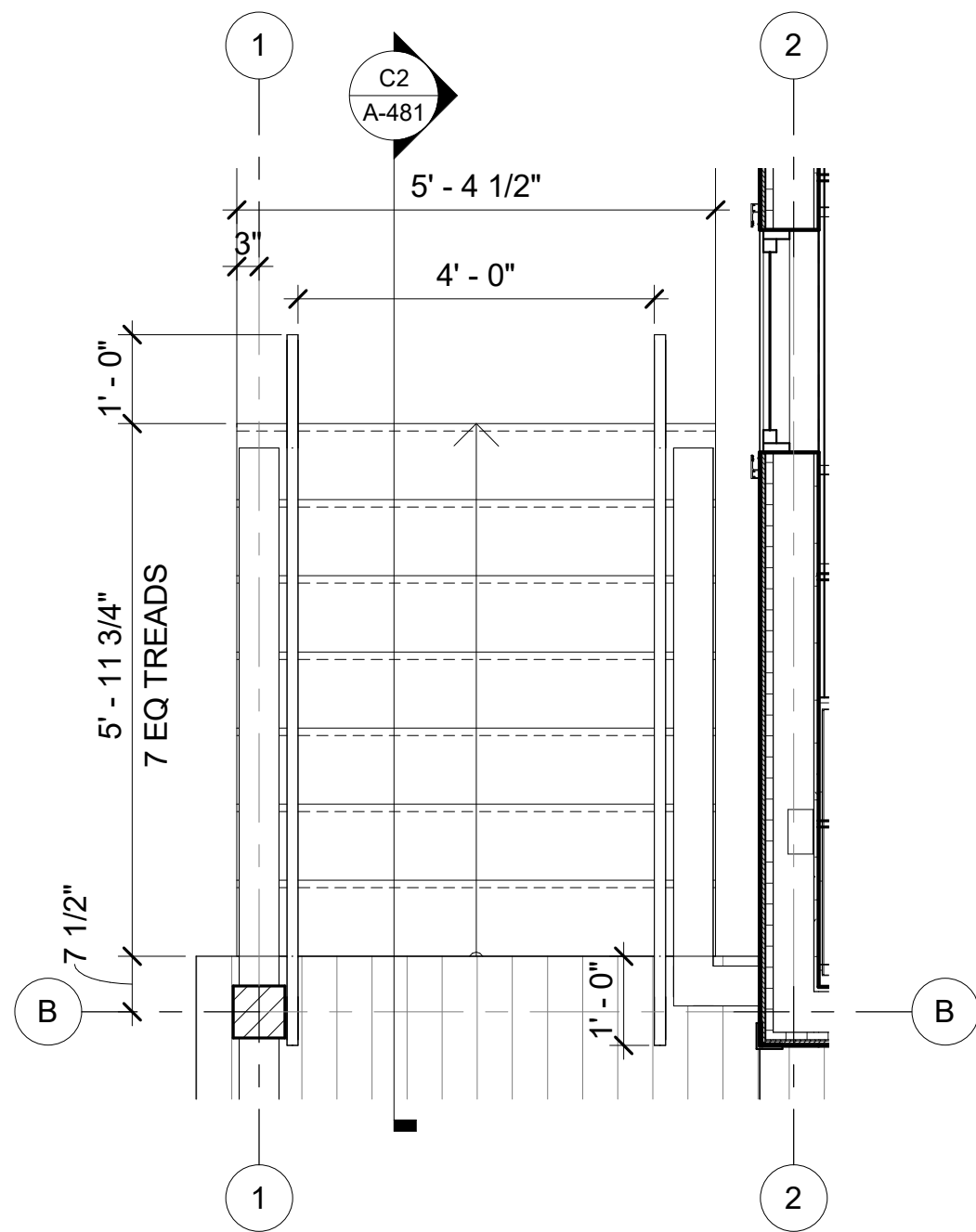
1

2

3

4

5

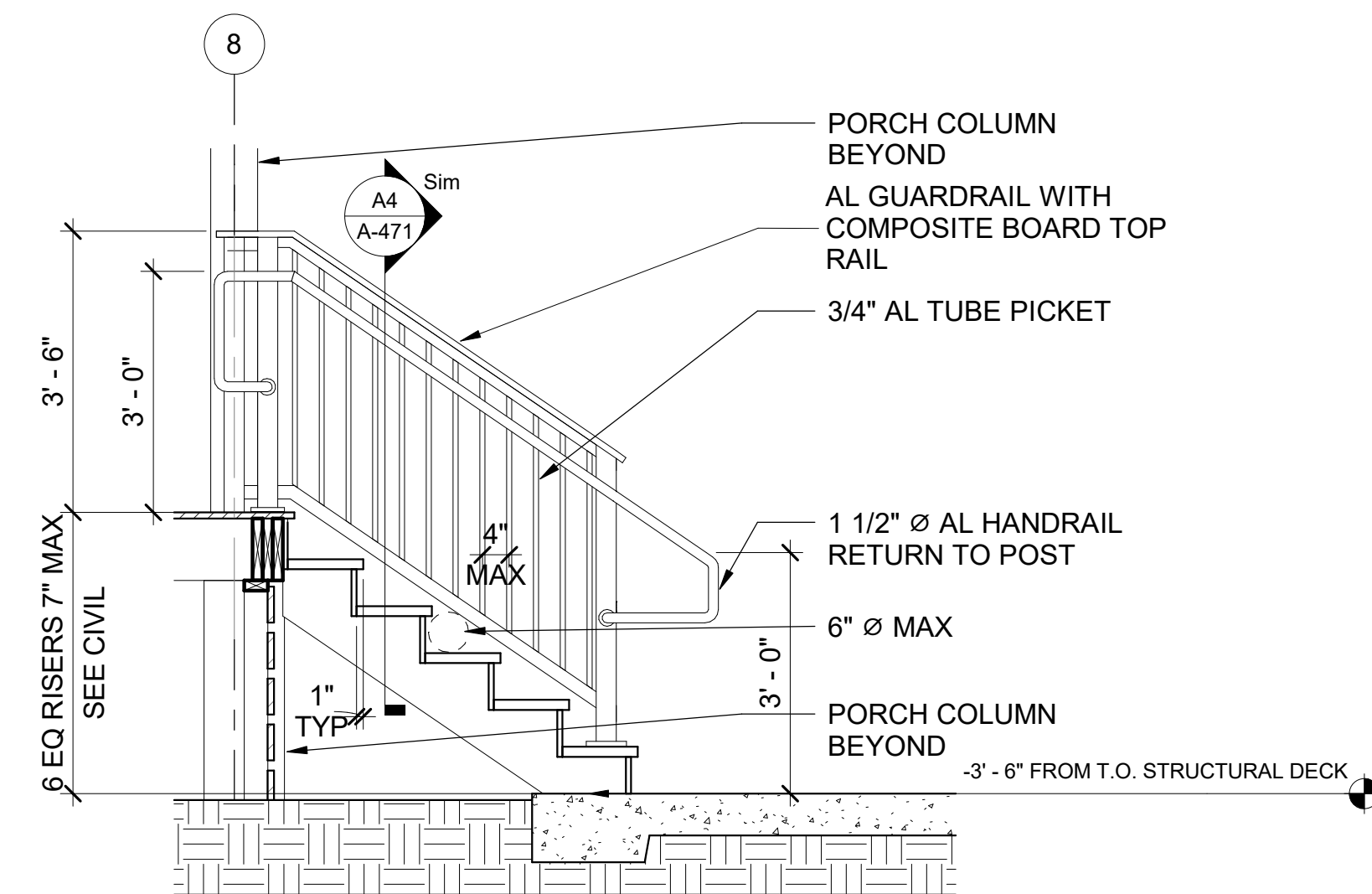
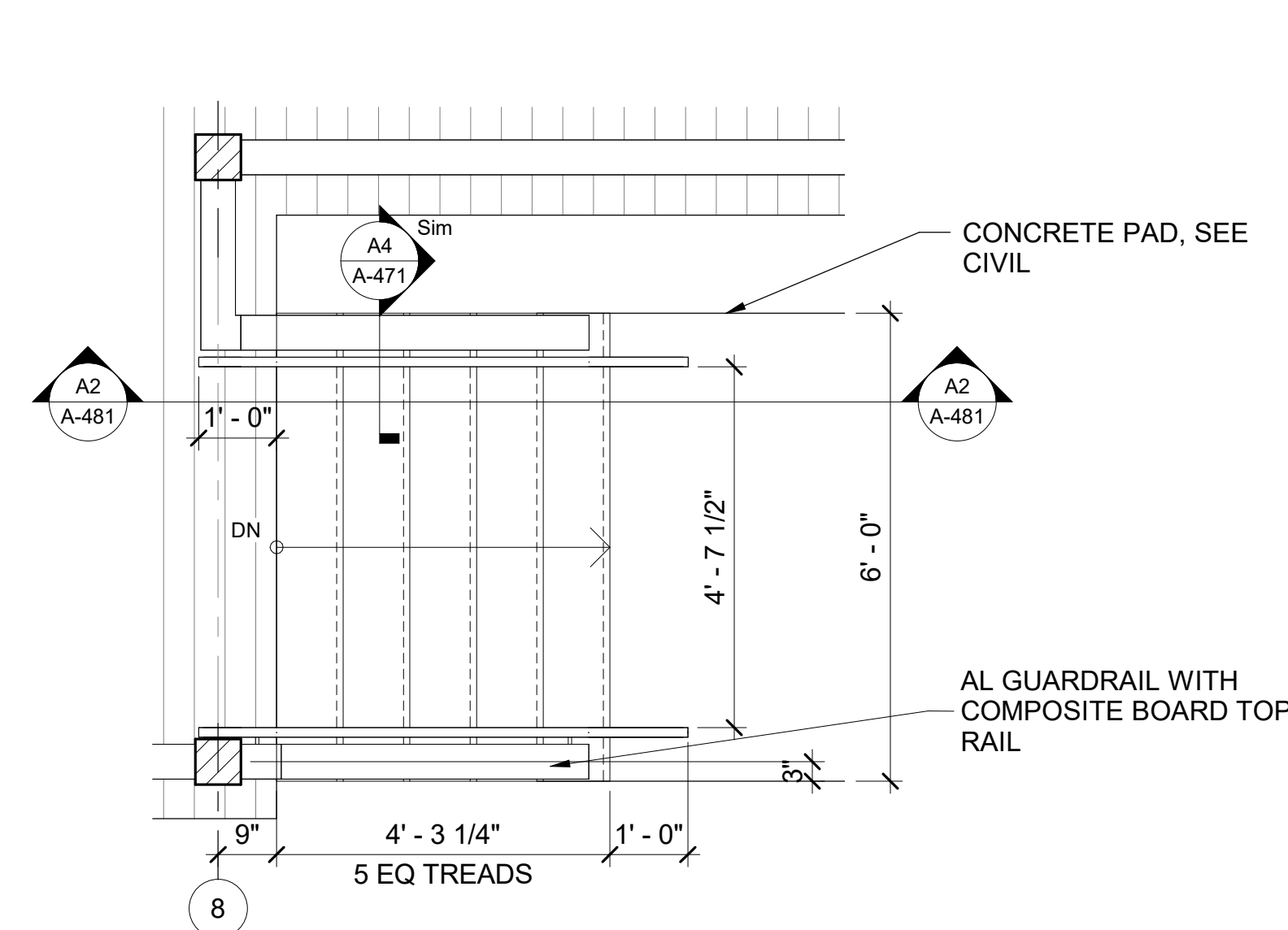


**C1** PLAN DETAIL - SIDE STAIR SOUTH  
SCALE: 1/2" = 1'-0"

**C2** SECTION - SIDE STAIR SOUTH  
SCALE: 1/2" = 1'-0"

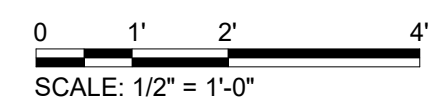
**C3** PLAN DETAIL - SIDE STAIR NORTH  
SCALE: 1/2" = 1'-0"

**C4** SECTION - SIDE STAIR NORTH  
SCALE: 1/2" = 1'-0"



**A1** PLAN DETAIL - ENTRY STAIR  
SCALE: 1/2" = 1'-0"

**A2** SECTION - ENTRY STAIR  
SCALE: 1/2" = 1'-0"



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

STAIR PLANS &  
SECTIONS

SHEET NUMBER

**A-481**

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



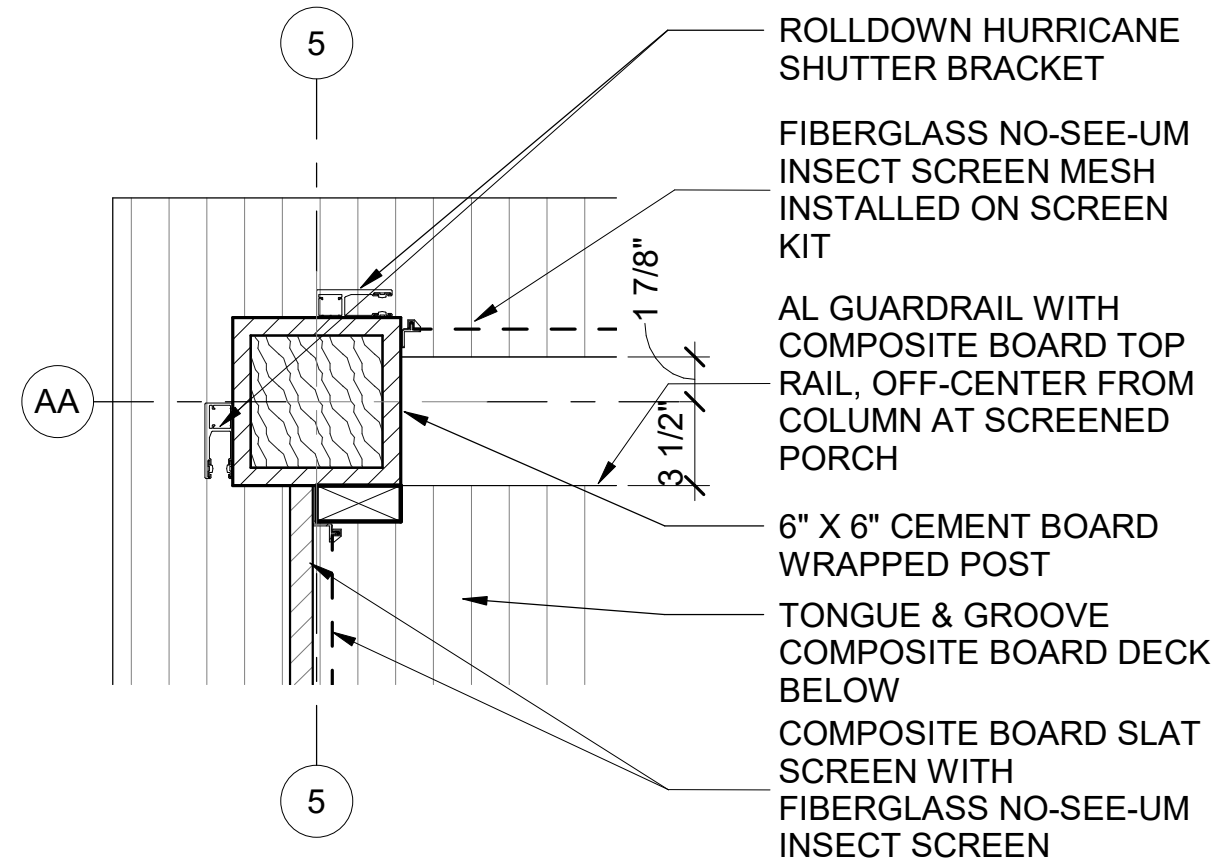
1

2

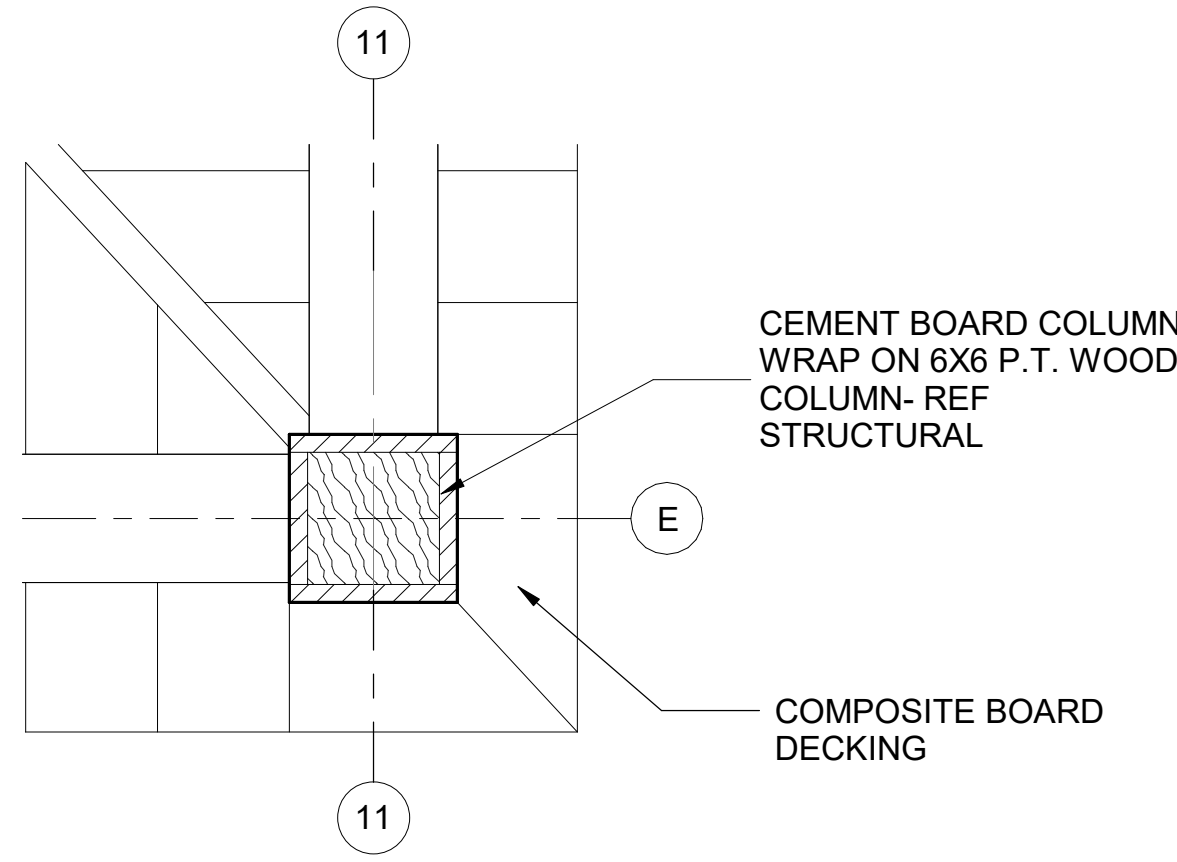
3

4

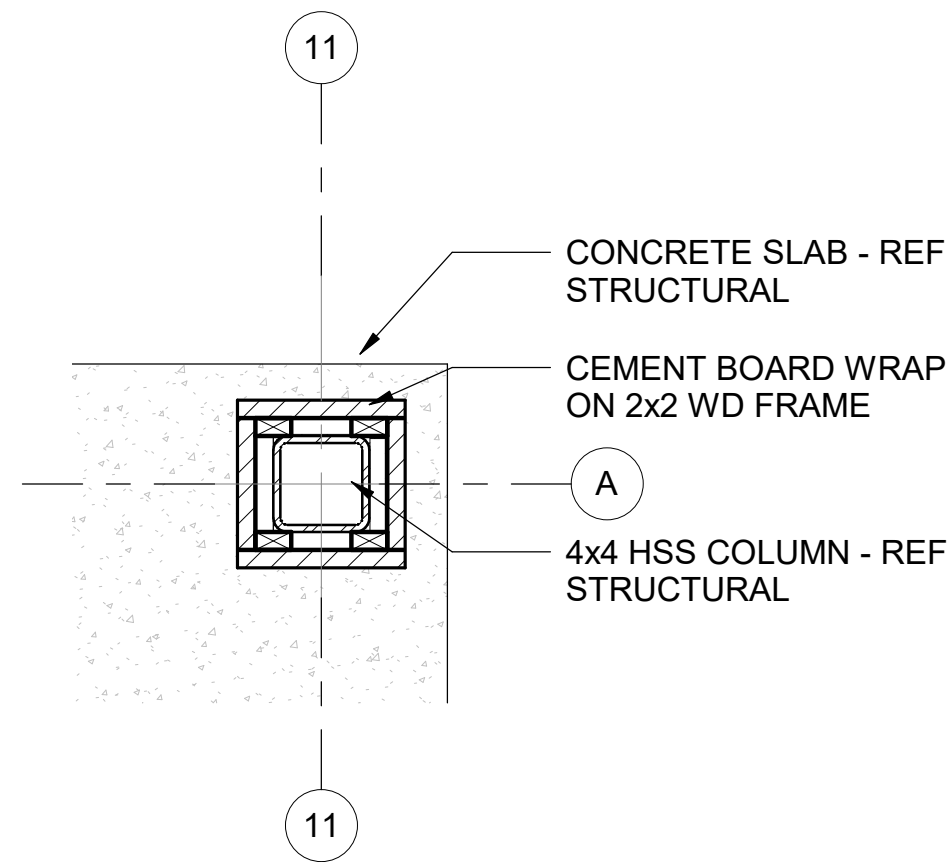
5

**C1** PLAN DETAIL - SCREEN PORCH

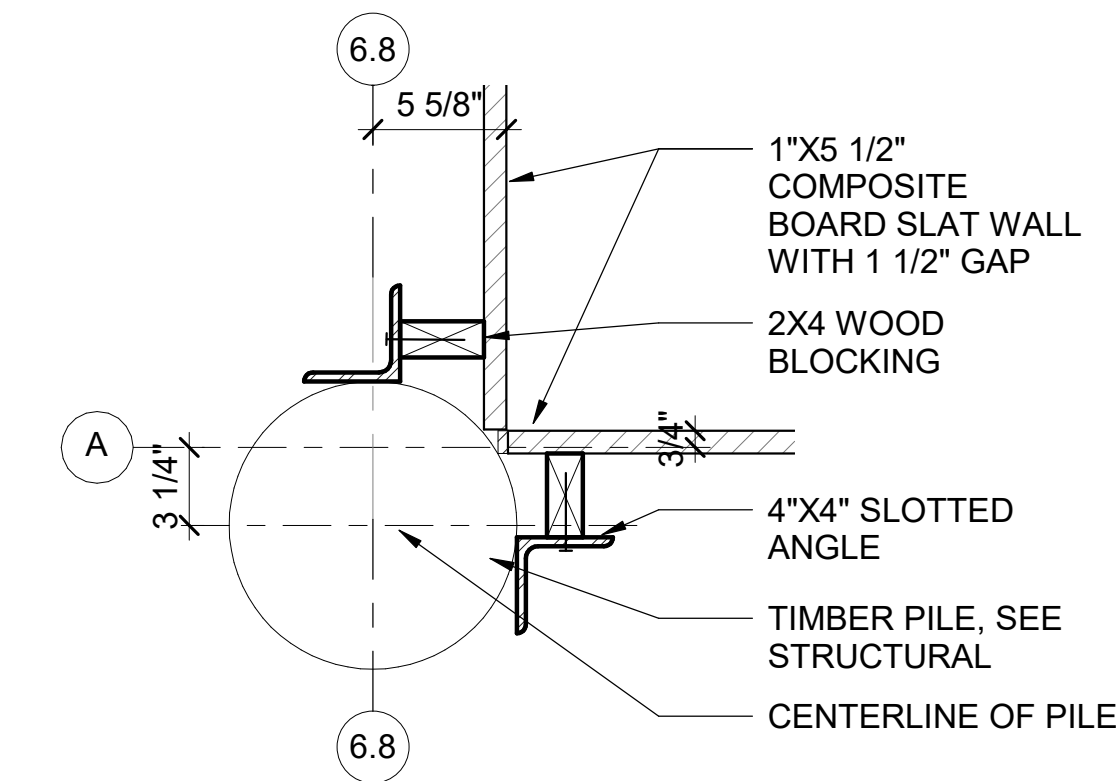
SCALE: 1 1/2" = 1'-0"

**C2** PLAN DETAIL - CORNER WOOD COLUMN

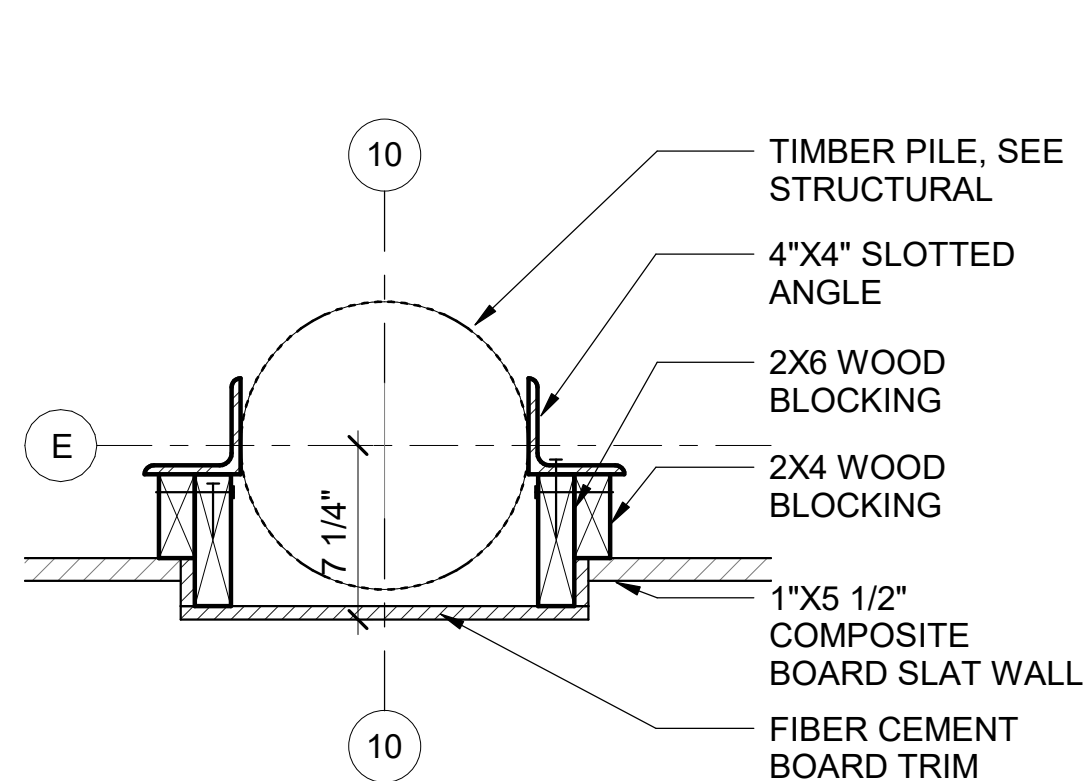
SCALE: 1 1/2" = 1'-0"

**C3** PLAN DETAIL - CORNER STEEL COLUMN

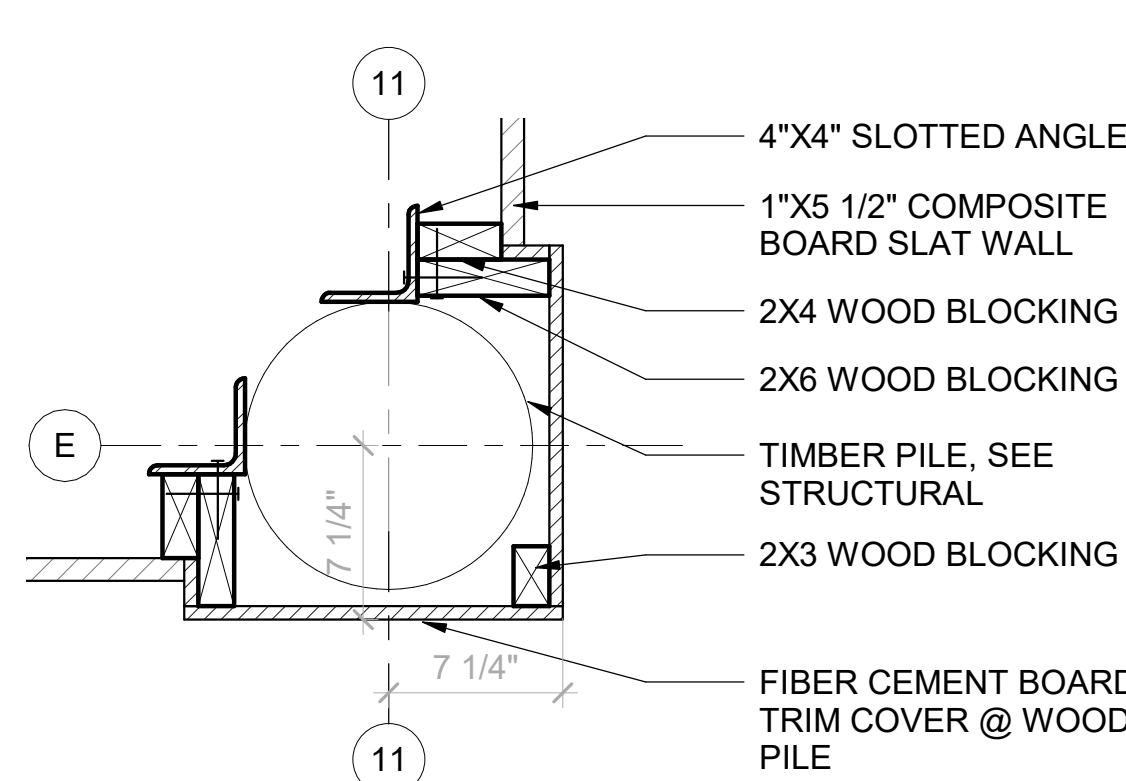
SCALE: 1 1/2" = 1'-0"

**B1** PLAN DETAIL - SCREEN WALL @ INSIDE CORNER TYP.

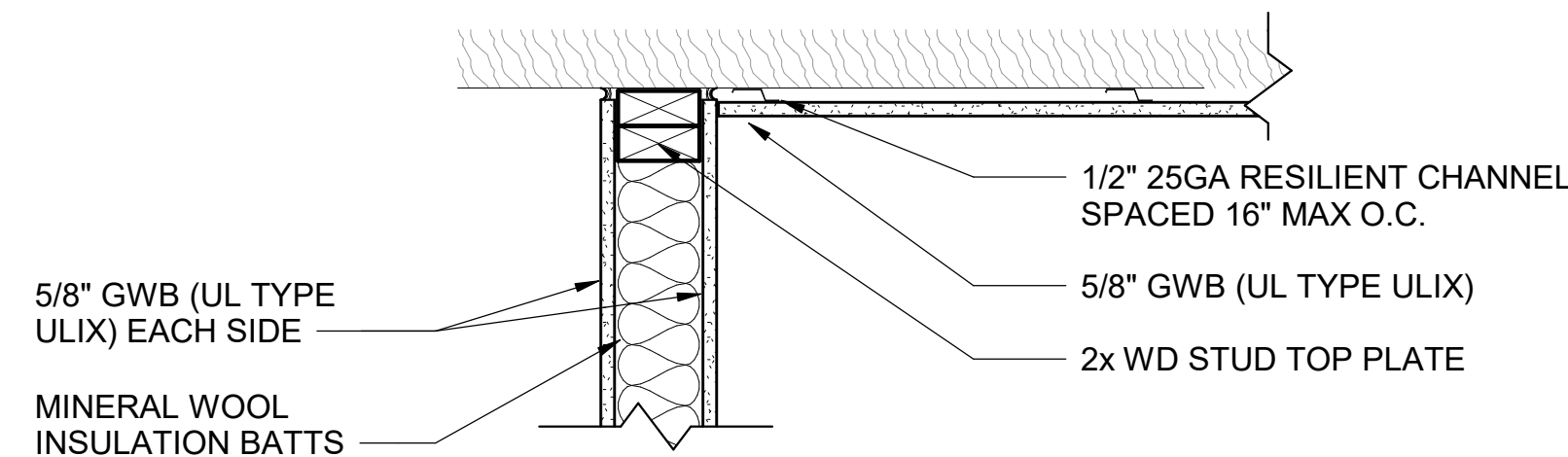
SCALE: 1 1/2" = 1'-0"

**B2** PLAN DETAIL - SCREEN WALL TYP.

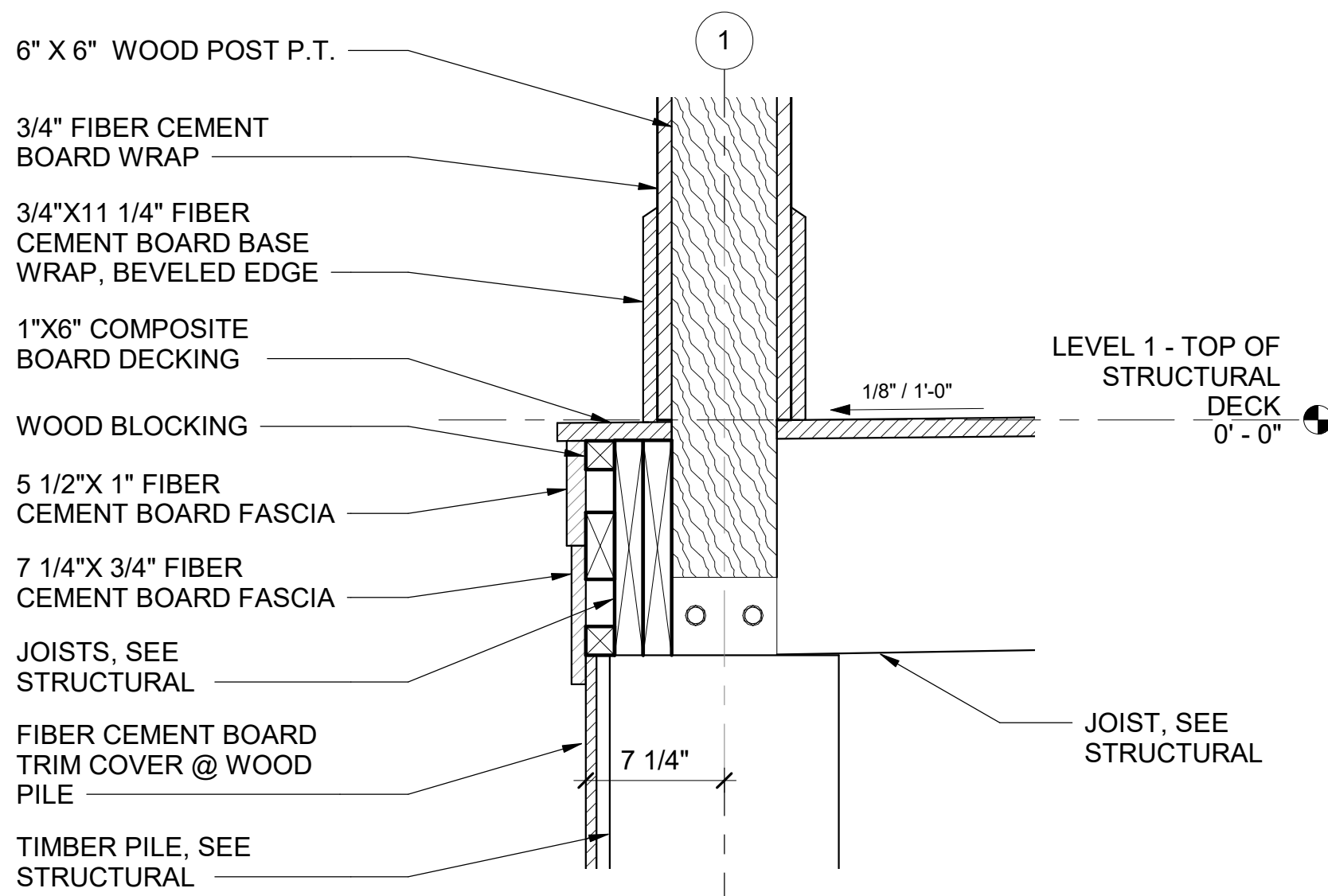
SCALE: 1 1/2" = 1'-0"

**B3** PLAN DETAIL - SCREEN WALL @ CORNER TYP.

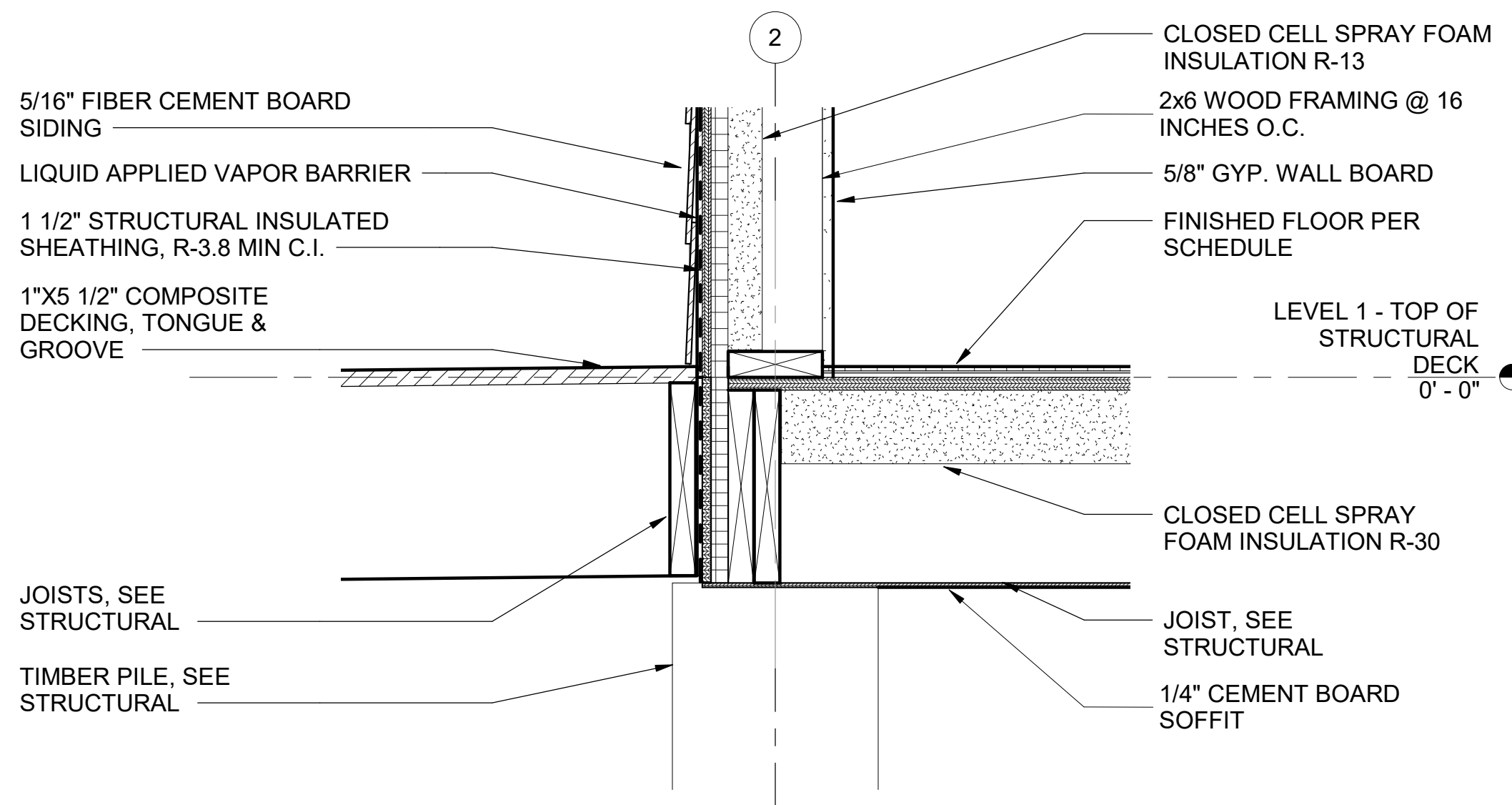
SCALE: 1 1/2" = 1'-0"

**B4** PARTITION HEAD CONNECTION FOR RATING UL P522

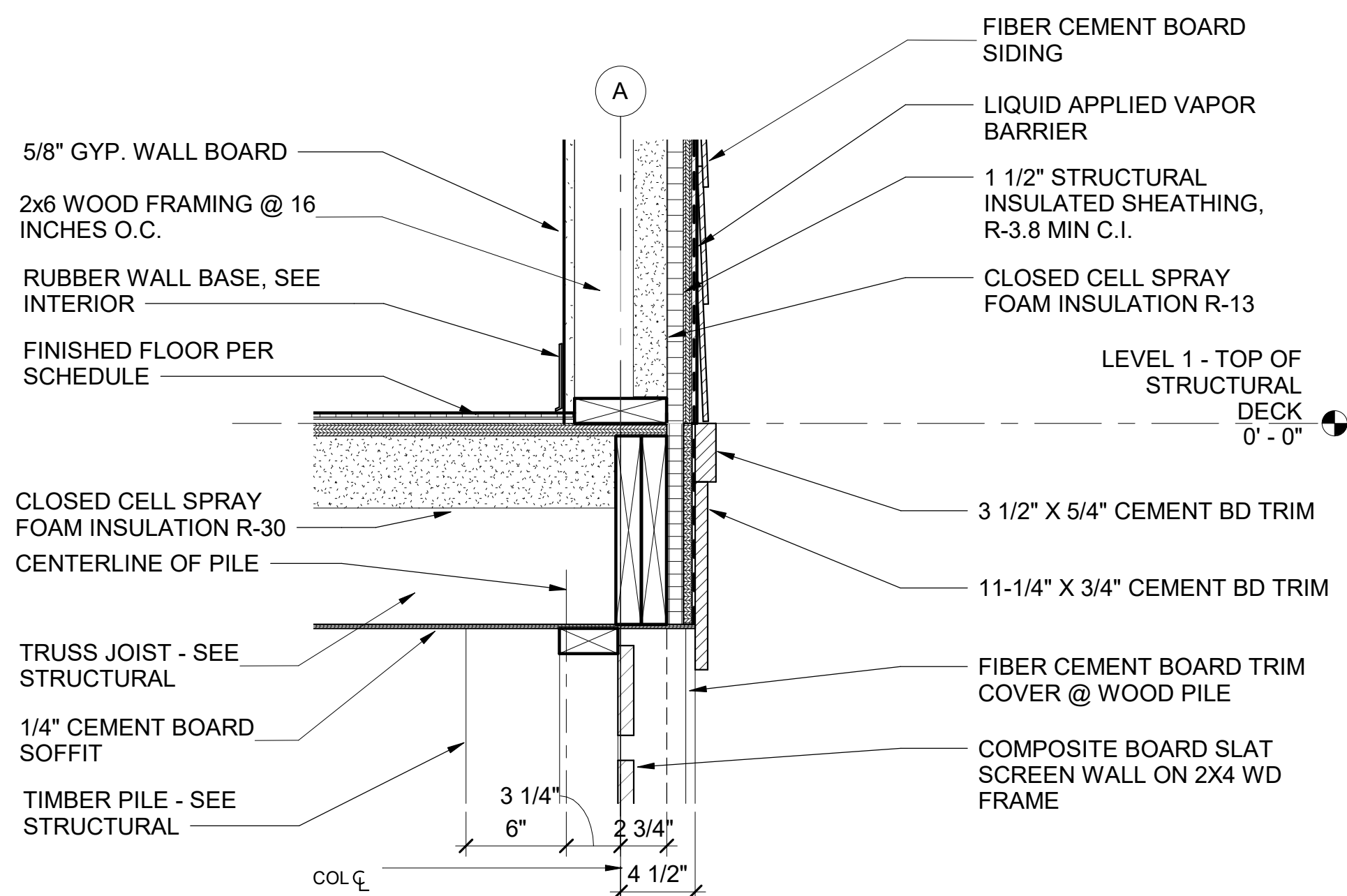
SCALE: 1 1/2" = 1'-0"

**A1** SECTION DETAIL - PORCH POST AND DECK

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

**A2** SECTION DETAIL - DECK AT EXT. WALL

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

**A4** SECTION DETAIL - EXT. WALL TO PILE

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

0 6" 1'-0" 1'-6"  
SCALE: 1 1/2" = 1'-0"**POND**3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond &amp; Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond &amp; Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish &amp; Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
BunkhouseLA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

PLAN & SECTION  
DETAILS

SHEET NUMBER

**A-501**ORIGINAL SHEET SIZE:  
24" X 36"

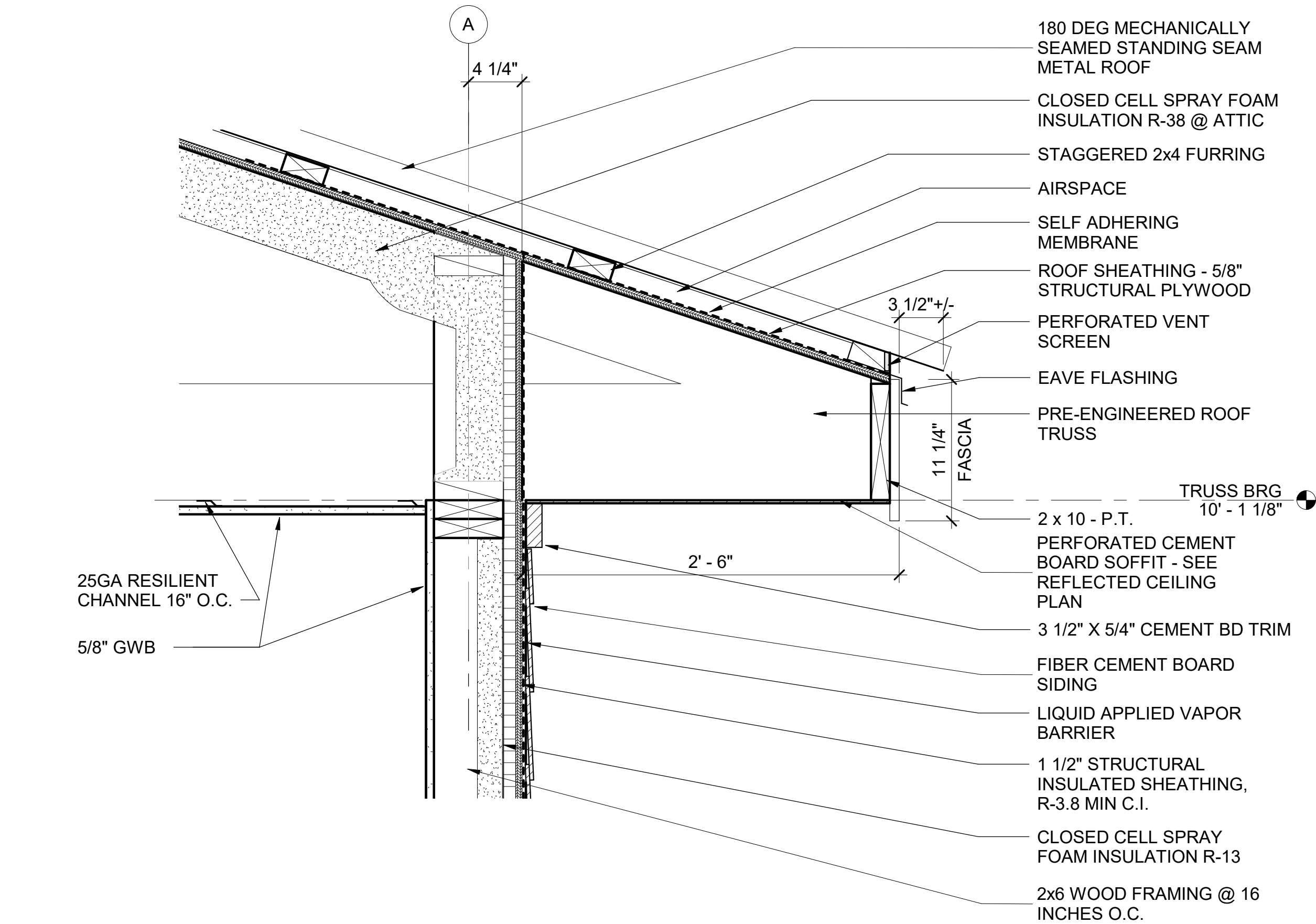
100% ISSUED FOR CONSTRUCTION

2/10/2025 11:53:11 AM BIM 360://1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_ARCH\_V21.rvt

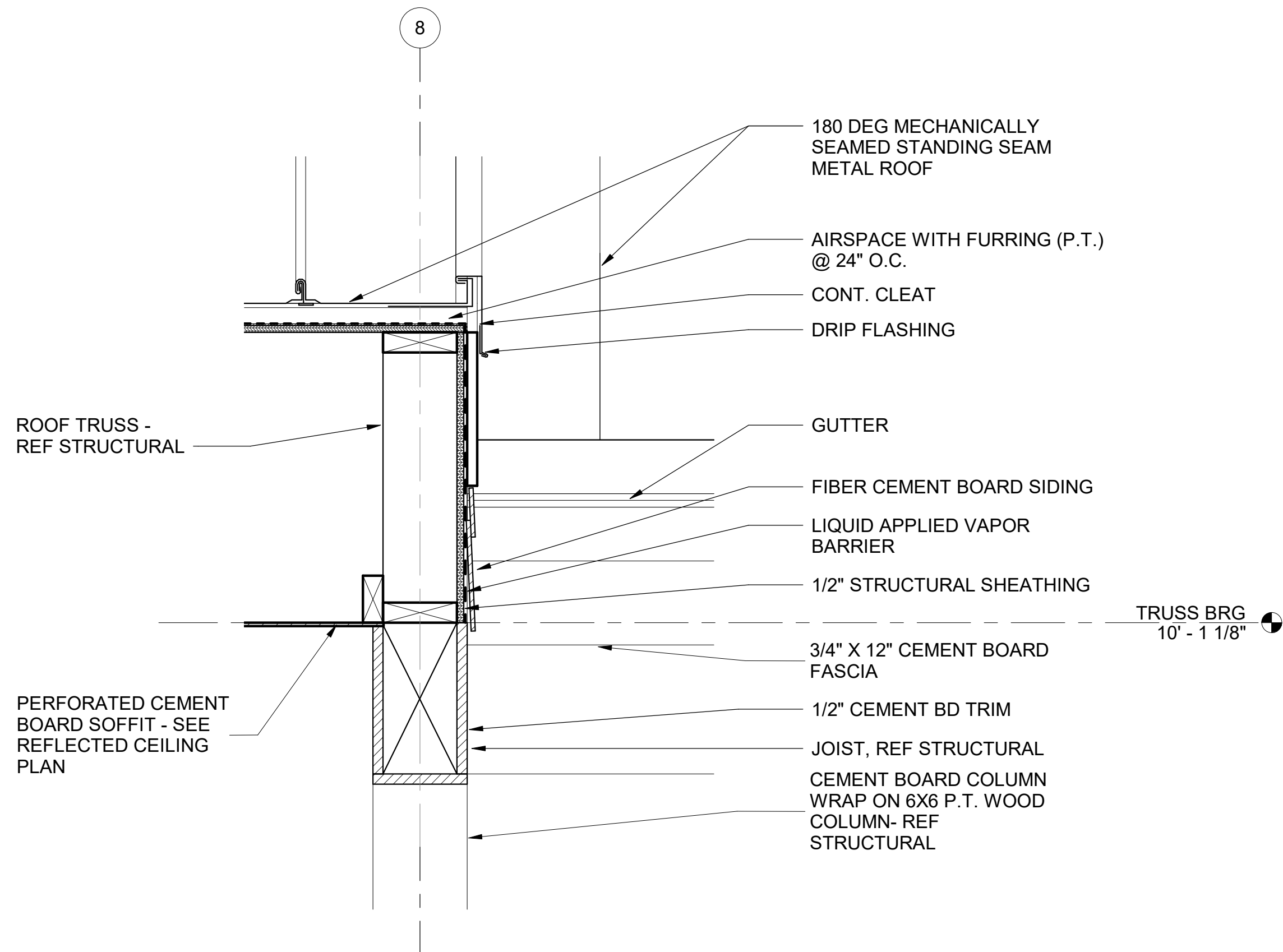


Cameron Prairie  
National Wildlife  
Refuge  
BunkhouseDESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834ROOF SECTION  
DETAILS

A-511

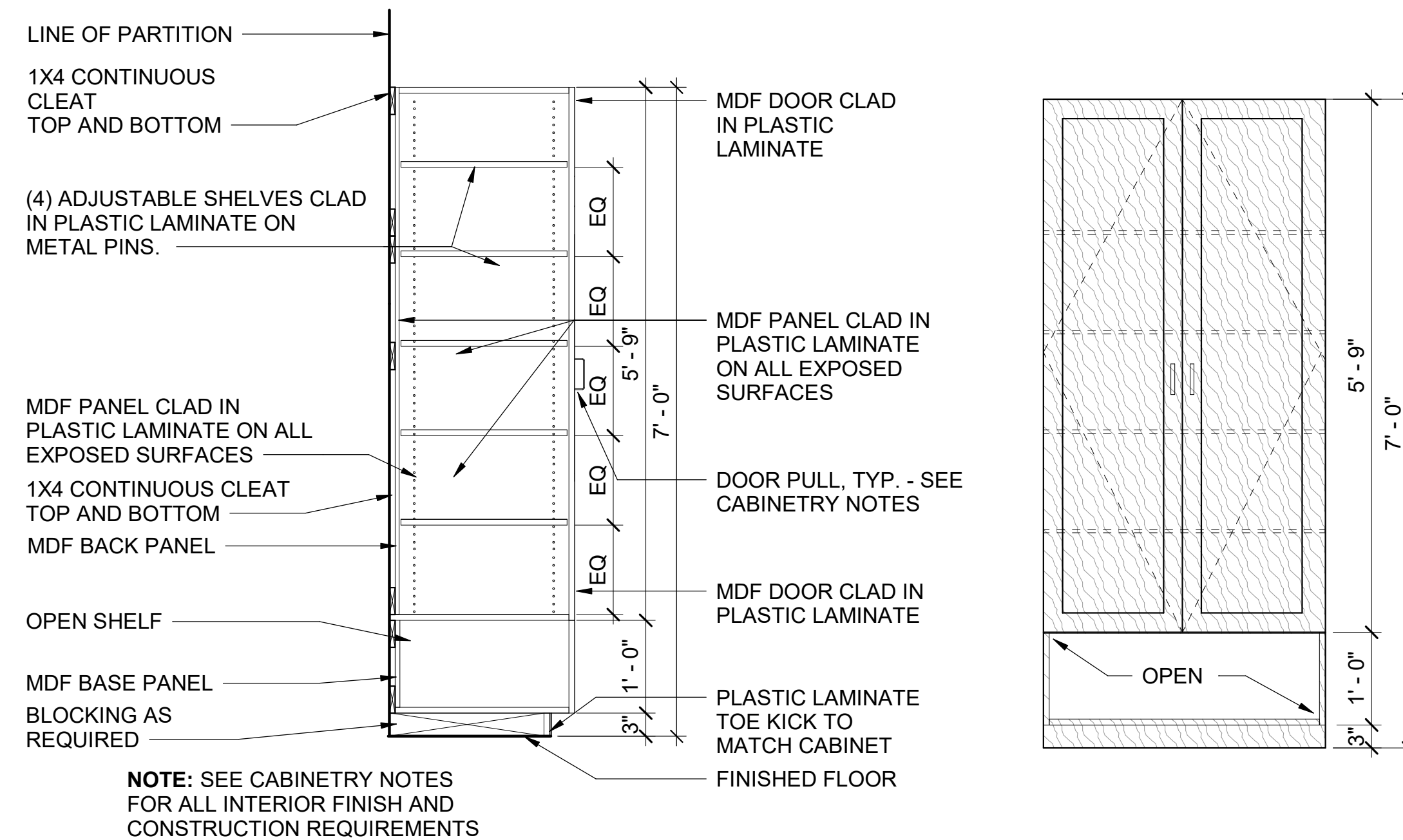
**C1 SECTION DETAIL - ROOF OVERHANG**

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

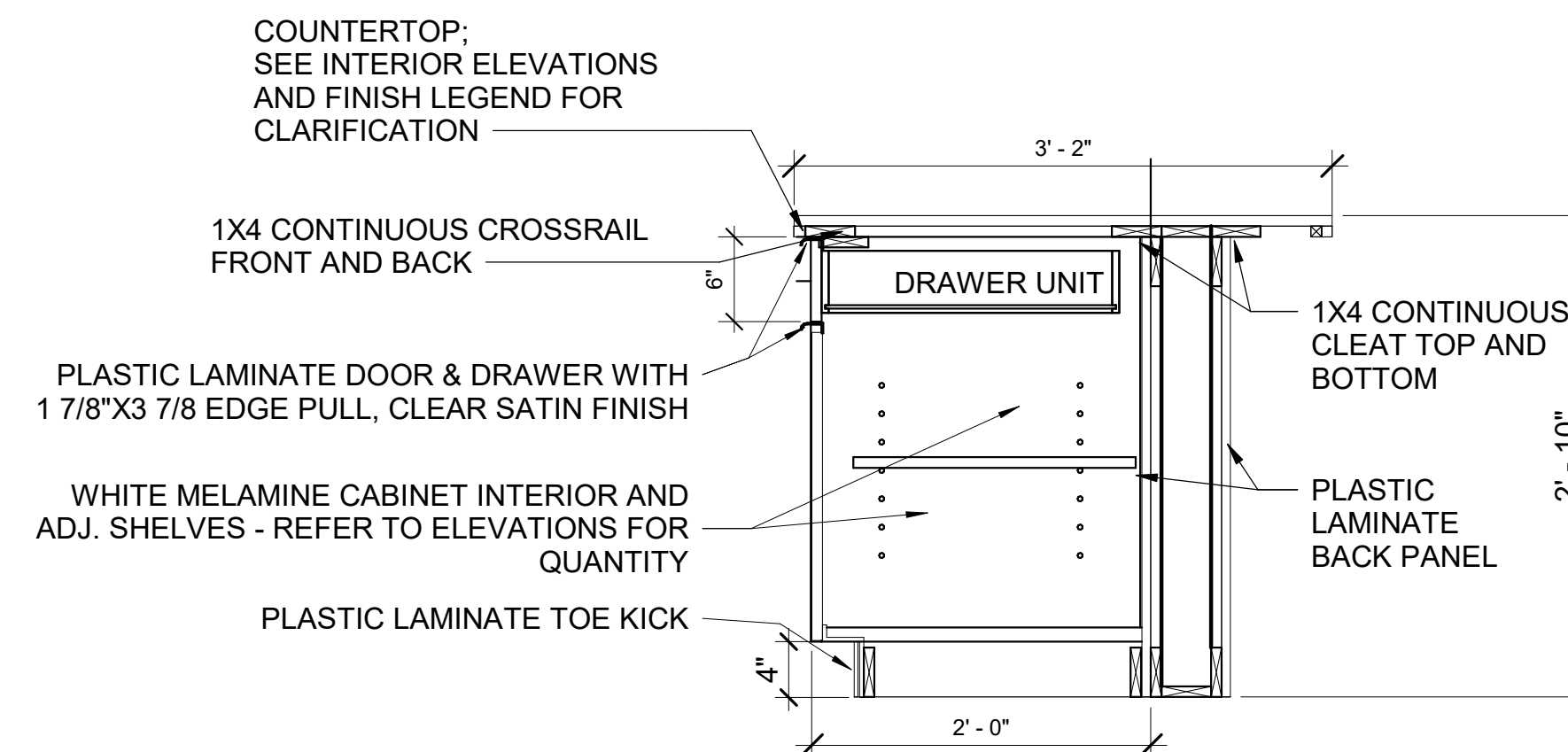
**A1 SECTION DETAIL - EDGE OF CANOPY ROOF**

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

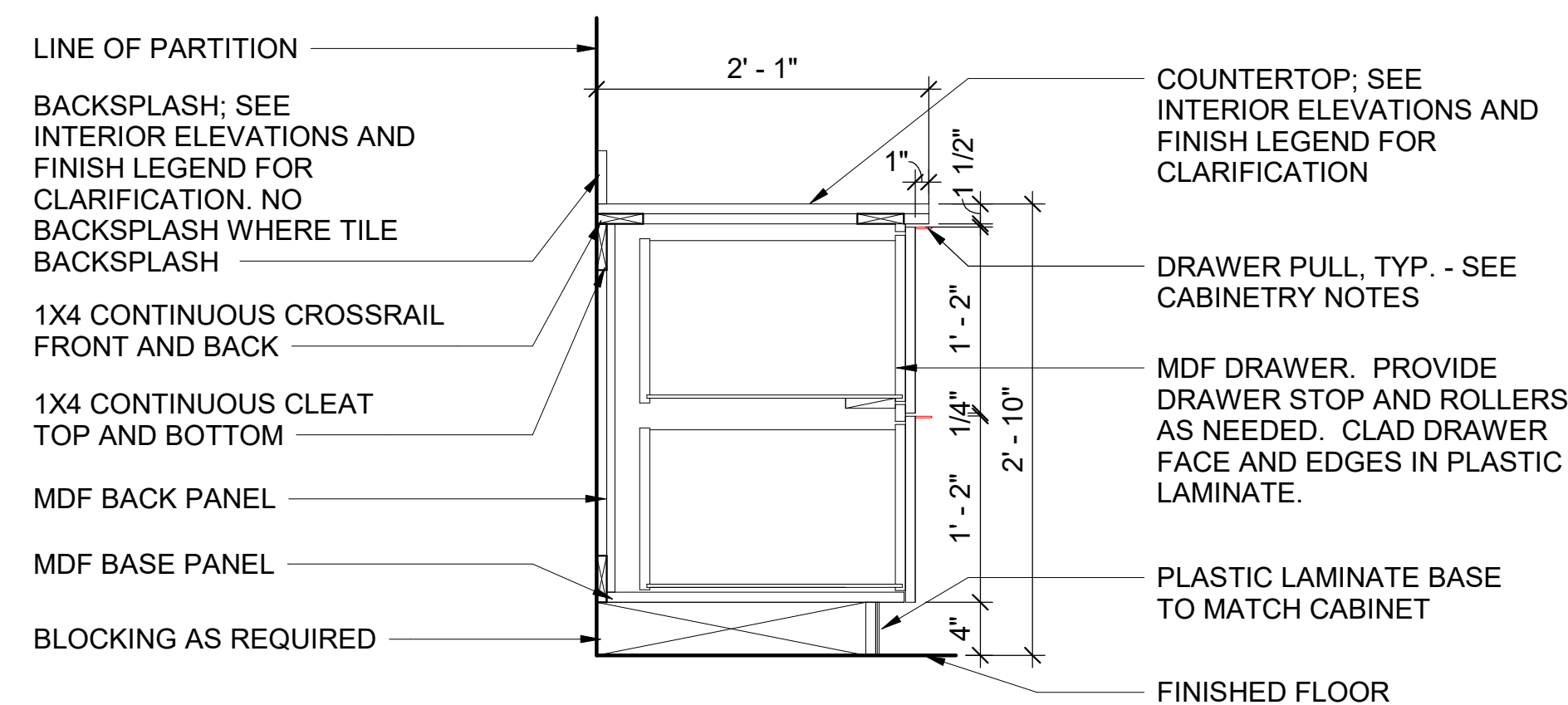




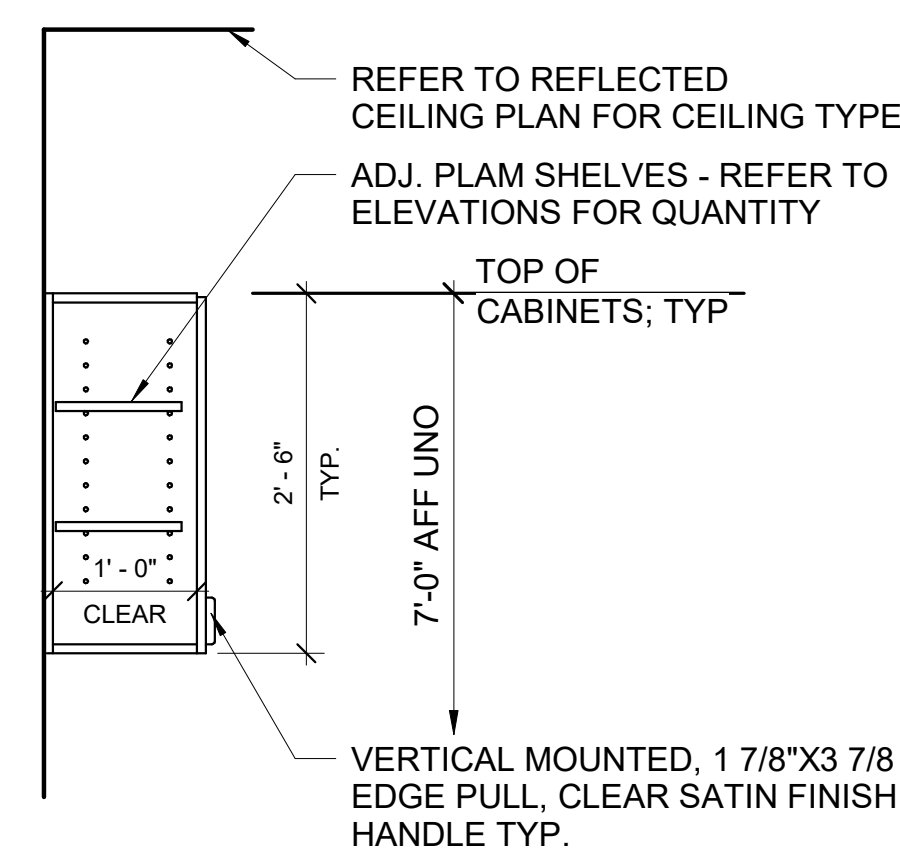
**C1 TALL CABINET**  
SCALE: 3/4" = 1'-0"



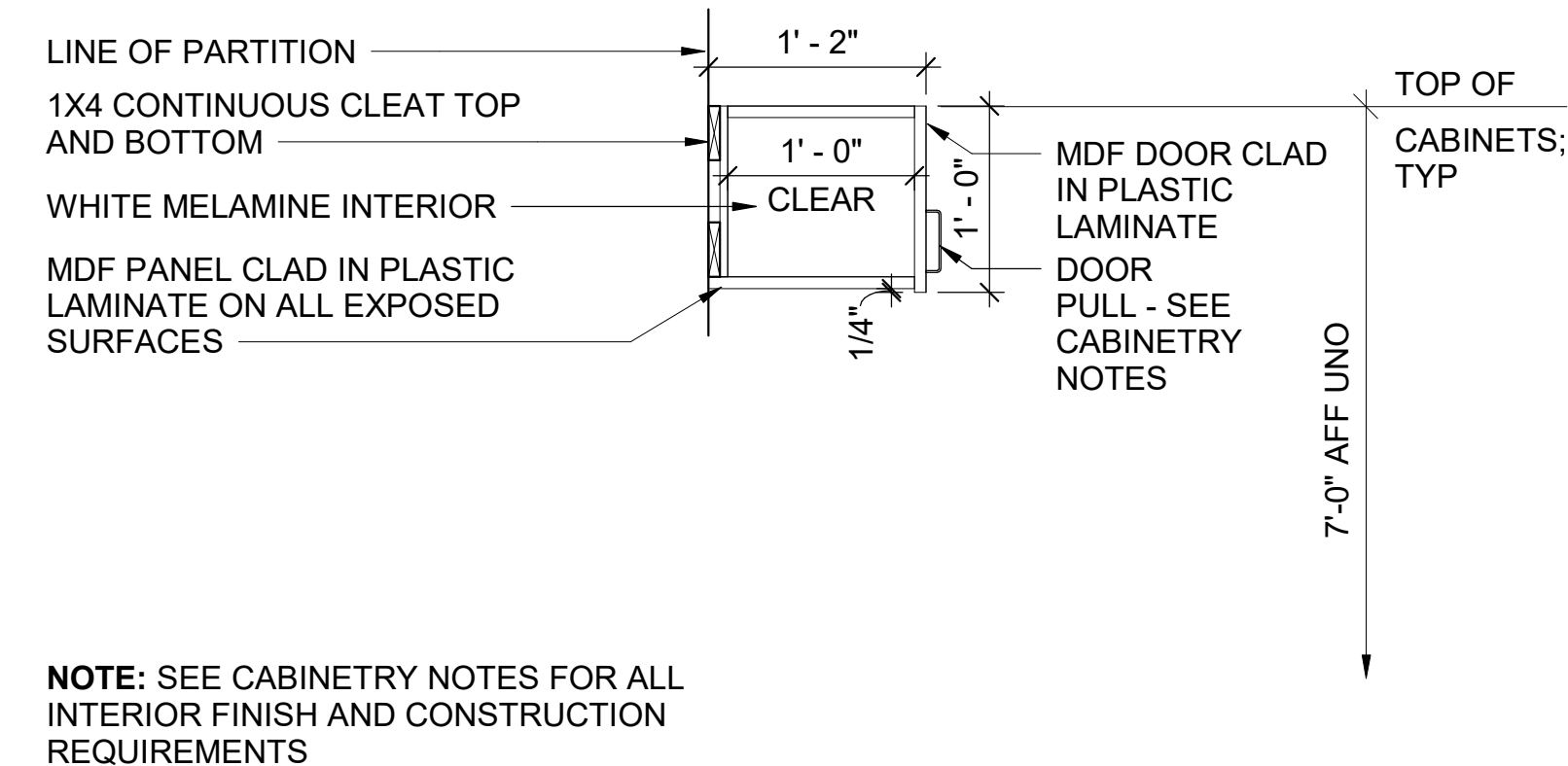
**C3** BASE CABINET - ISLAND  
SCALE: 1" = 1'-0"



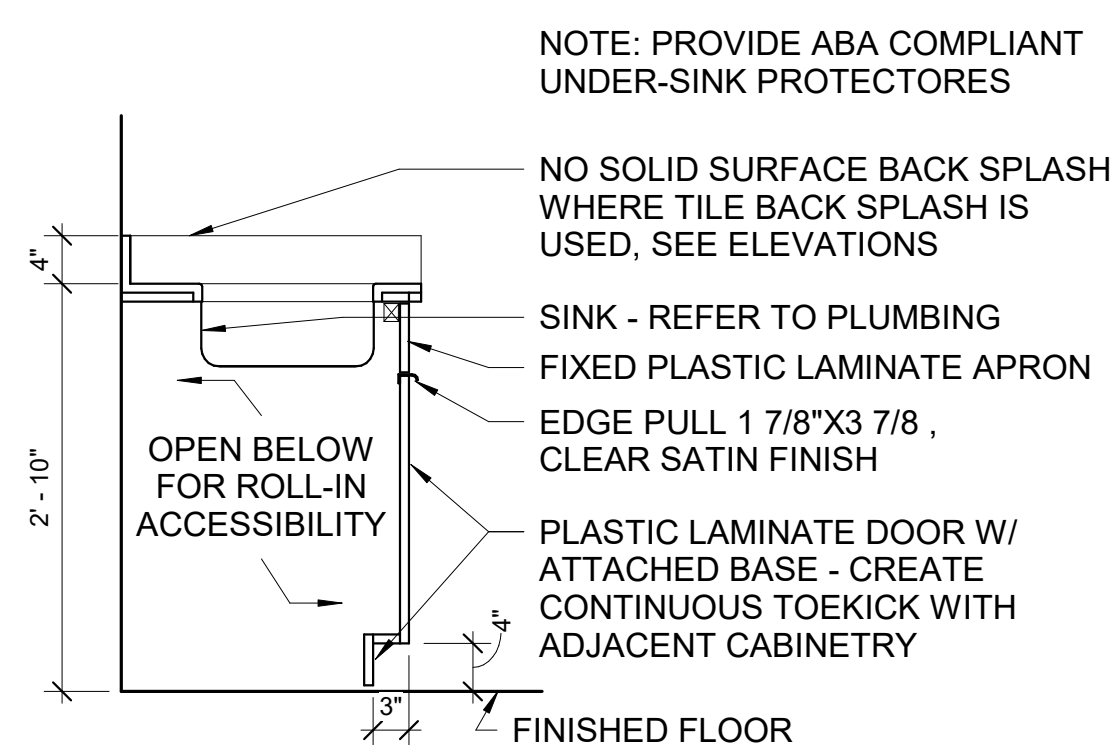
**B1** BASE CABINET W/ 2 DRAWERS  
SCALE: 1" = 1'-0"



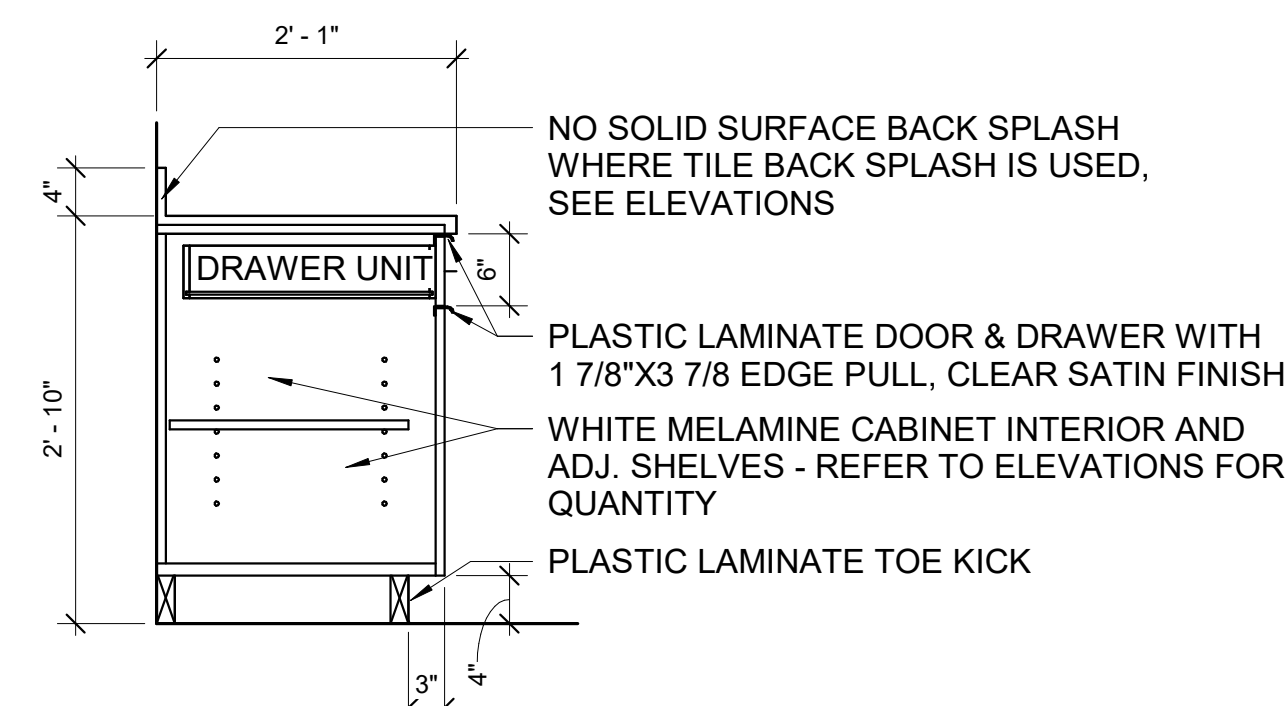
**B3** WALL CABINET  
SCALE: 3/4" = 1'-0"



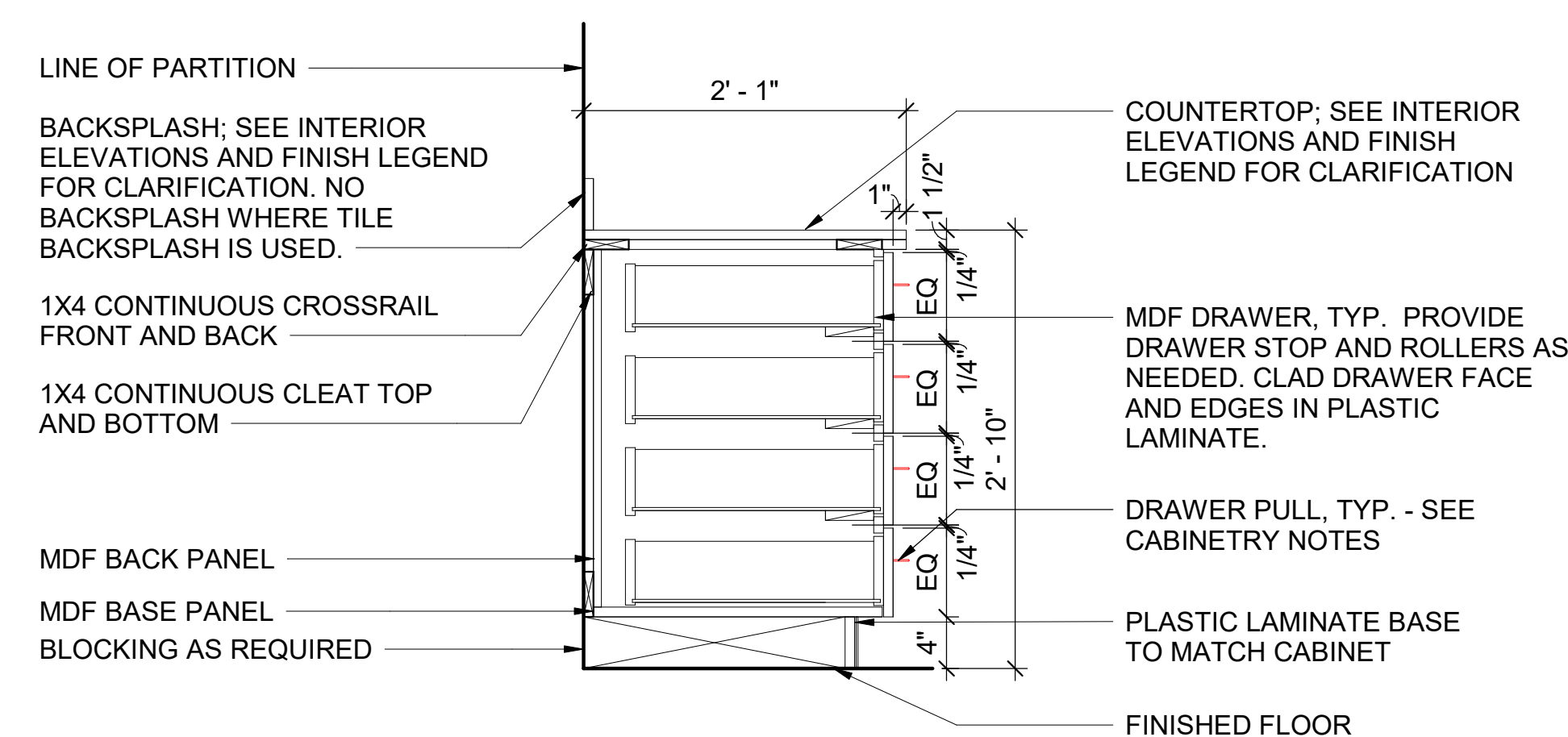
**B4** UPPER CABINET - OVER REFRIGERATOR  
SCALE: 1" = 1'-0"



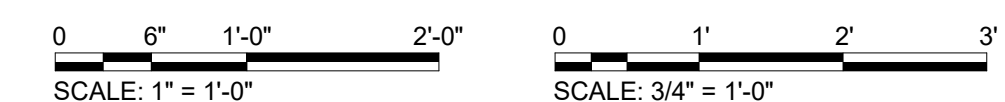
**A1** ADA SINK BASE CABINET  
SCALE: 3/4" = 1'-0"



**A2** TYPICAL BASE CABINET  
SCALE: 3/4" = 1'-0"



**A3** BASE CABINET W/ 4 DRAWERS  
SCALE: 1" = 1'-0"



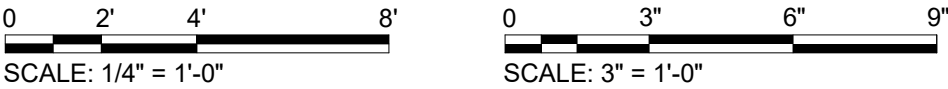
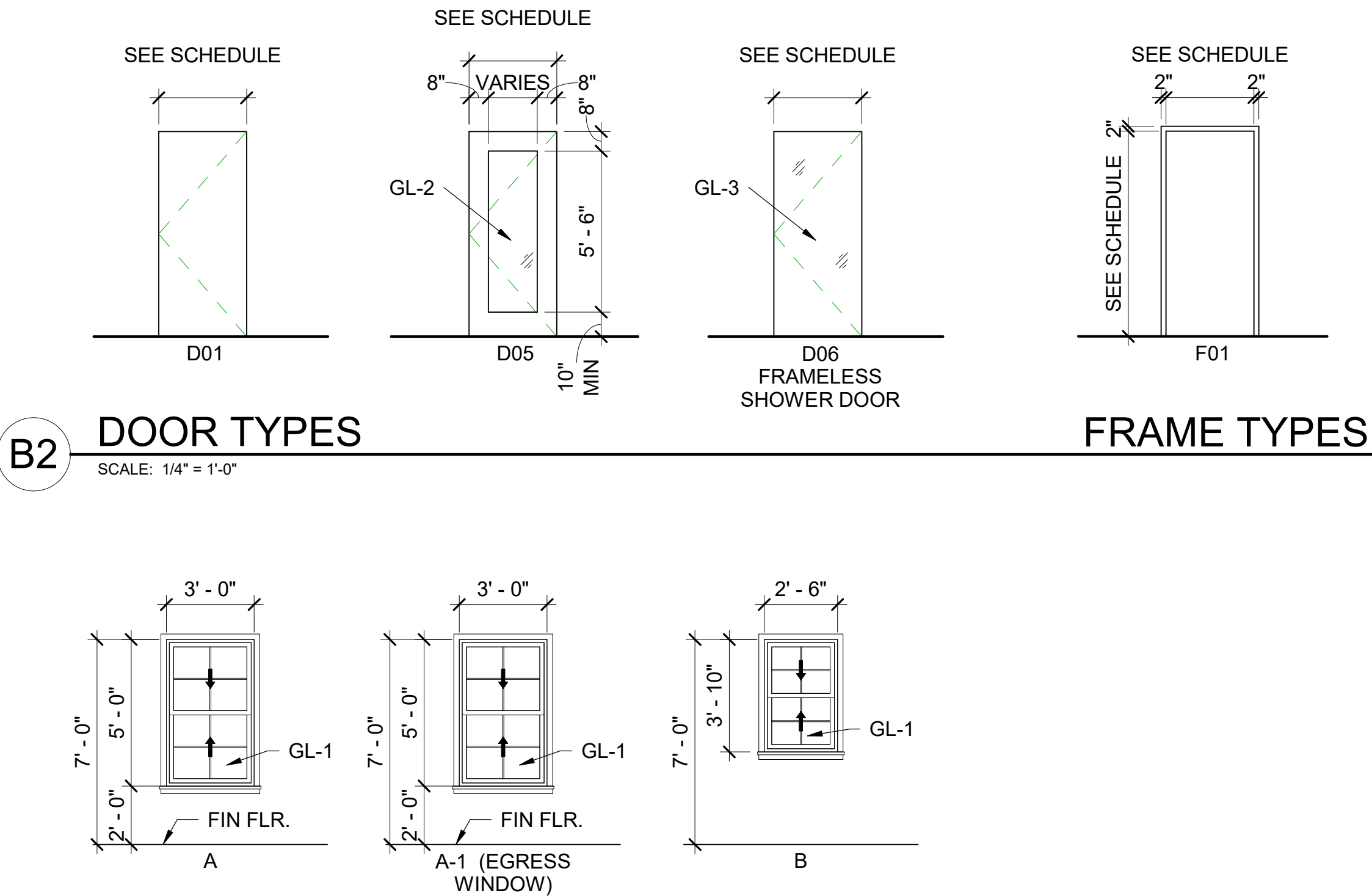
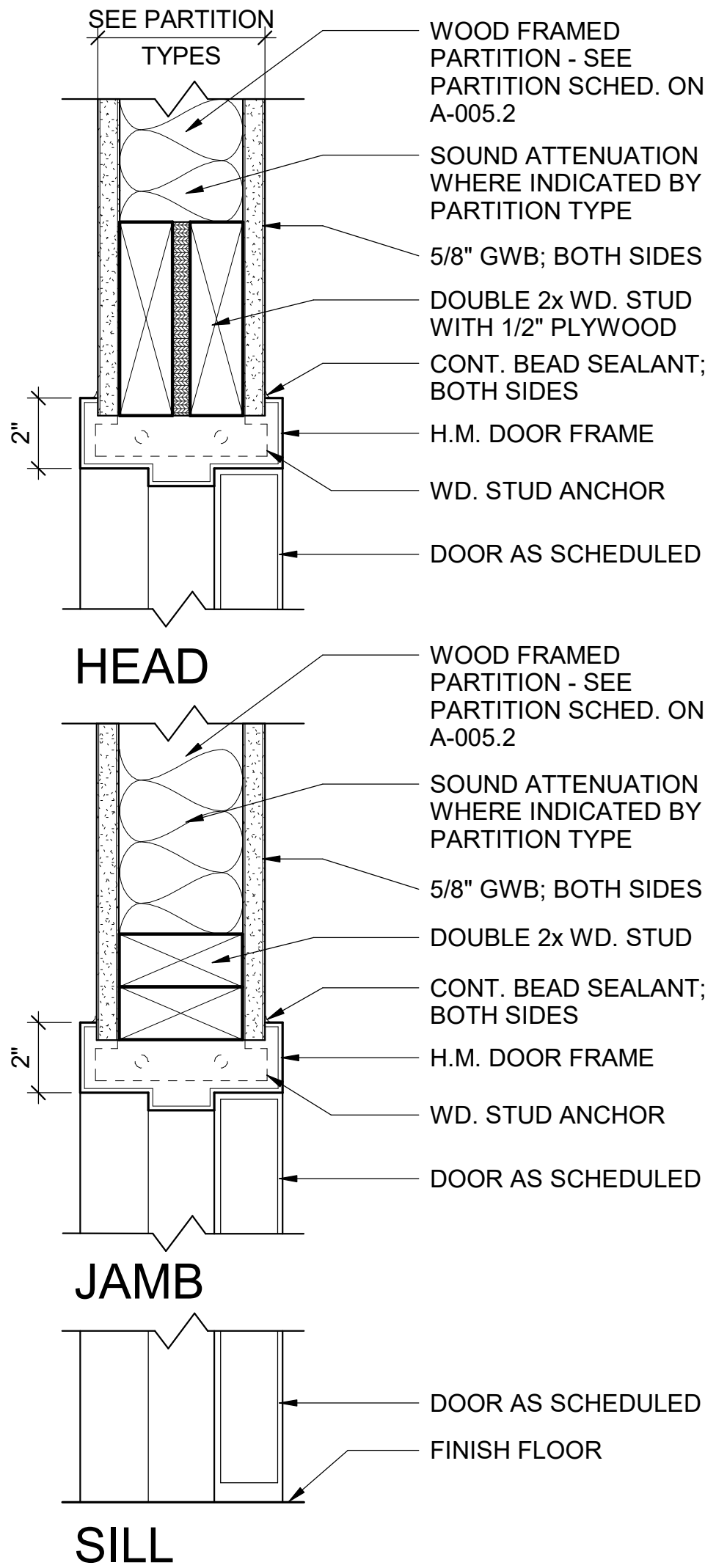


DOOR SCHEDULE

MARK	PANEL						FRAME			DETAILS	FIRE RATIN G	HARDWARE	REMARKS	Type Mark
	TYPE	WIDTH	HEIGHT	THK.	MATL.	FIN.	TYPE	MATL.	FIN.	SILL/JAMB/HEAD				
101	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1/A-601	45 MIN.	2.0		328
102	D05	3' - 0"	7' - 0"	1 3/4"	H.M.	PT	F01	H.M.	PT	A1/A-611	-	1.0		64
103	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1/A-601	45 MIN.	2.0		328
104	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1/A-601	-	3.0		221
105	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	45 MIN.	2.0		328
106	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	45 MIN.	4.0		328
107	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	45 MIN.	4.0		328
108	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	45 MIN.	4.0		328
109	D01	2' - 6"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	-	5.0		327
110	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	45 MIN.	6.0		328
111	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	45 MIN.	6.0		328
111A	D06	2' - 6"	8' - 0"	3/8"	GL3								FRAMELESS GLASS SHOWER DOOR & S.S. GLASS DOOR HARDWARE KIT: PULL HINGES W/ LIMIT PLATES & HANDLES BY FHC, GLASS SIMPLE OR EQUAL	329
112	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	45 MIN.	6.0		328
112A	D06	2' - 6"	8' - 0"	3/8"	GL3								FRAMELESS GLASS SHOWER DOOR & S.S. GLASS DOOR HARDWARE KIT: PULL HINGES W/ LIMIT PLATES & HANDLES BY FHC, GLASS SIMPLE OR EQUAL	329
114	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	45 MIN.	4.0		328
115	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	45 MIN.	4.0		328
116	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	45 MIN.	4.0		328
117	D01	2' - 6"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	-	5.0		327
118	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	45 MIN.	6.0		328
119	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	45 MIN.	6.0		328
120	D01	3' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	45 MIN.	6.0		328
121	D01	2' - 0"	7' - 0"	1 3/4"	SCW	ST	F01	H.M.	PT	A1	-	5.0		331
E001	D05	3' - 0"	7' - 0"	1 3/4"	H.M.	PT	F01	H.M.	PT	A1/A-611	-	1.0		64
E002	D05	3' - 0"	7' - 0"	1 3/4"	H.M.	PT	F01	H.M.	PT	A1/A-611	-	1.0		64
E003	D05	3' - 0"	7' - 0"	1 3/4"	H.M.	PT	F01	H.M.	PT	A1/A-611	-	1.0		64

GLAZING SCHEDULE		ASSEMBLY MAX U VALUE
GL-1	1" INSULATED GLAZING (LOW-E)	
GL-2	1/4" CLEAR TEMPERED	
GL-3	3/8" CLEAR TEMPERED WITH POLISHED EDGES	

1" INSULATED GLAZING B.O.D.: SOLARBAN 60 SOLAR CONTROL LOW-E GLASS



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: R. ELLIOTT  
DRAWN BY: U. MARGULL  
CHECKED BY: K. KOTELLOS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

DOOR & WINDOW  
SCHEDULES,  
ELEVATIONS &  
DETAILS

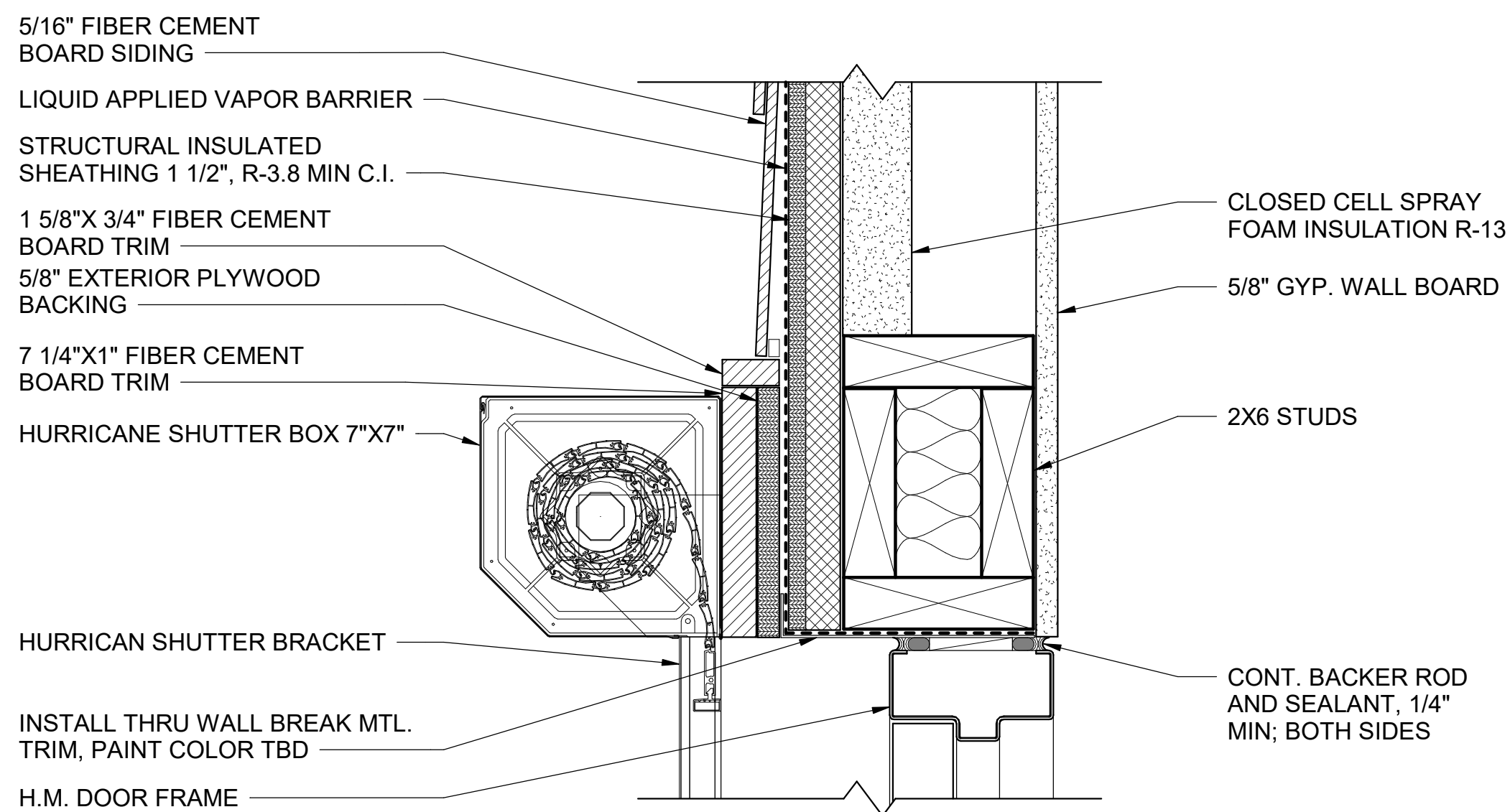
SHEET NUMBER

A-601

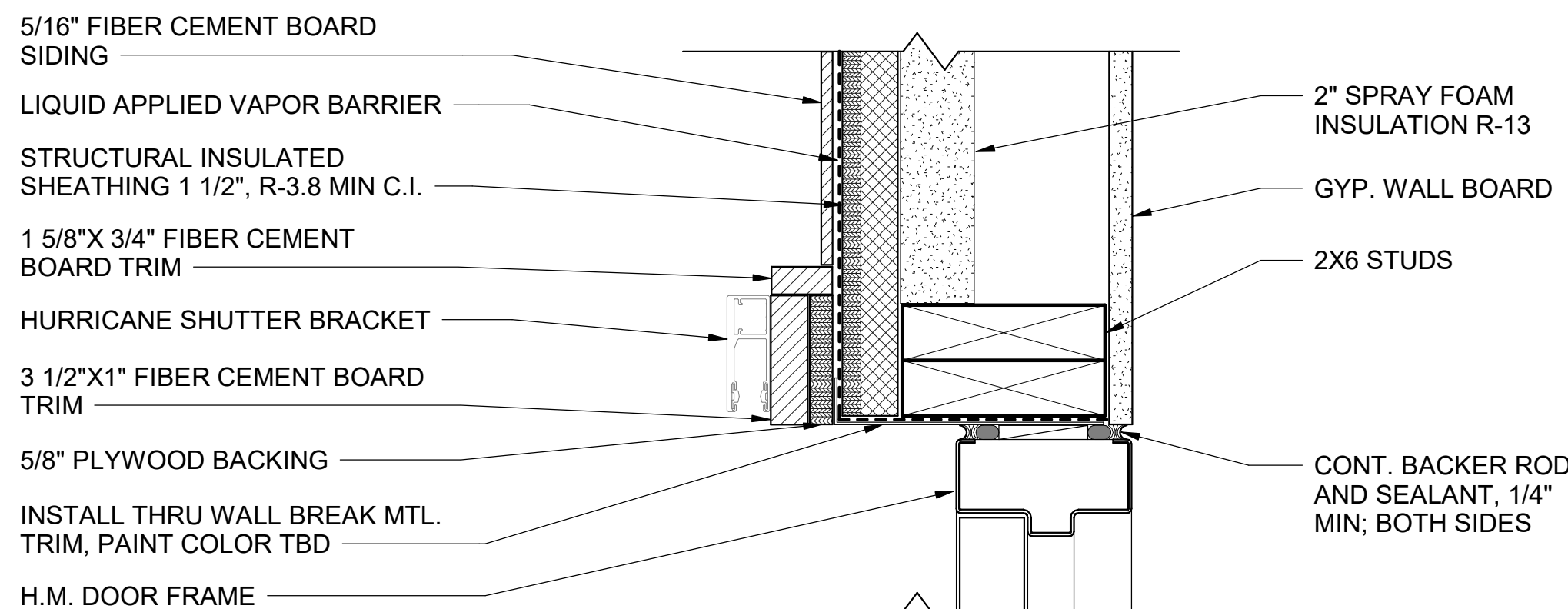
ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION

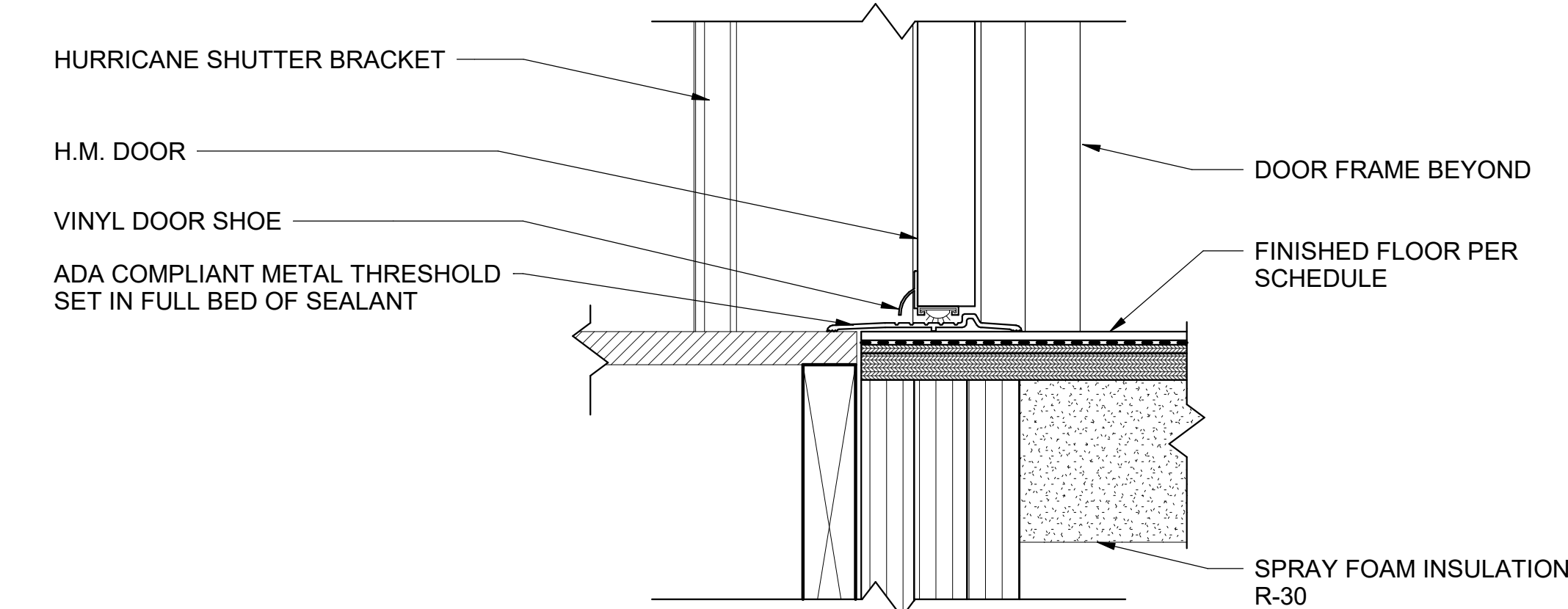




HEAD



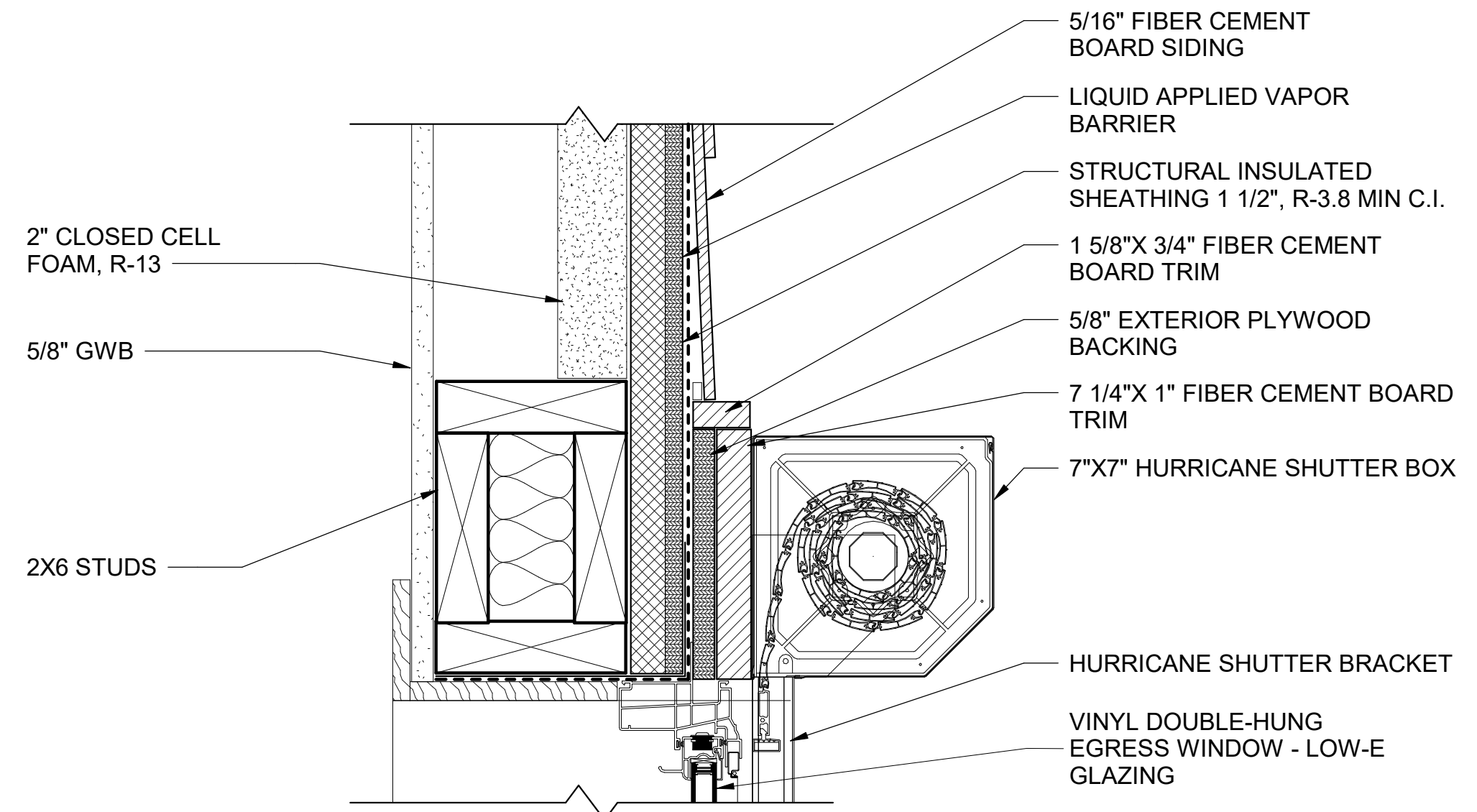
JAMB



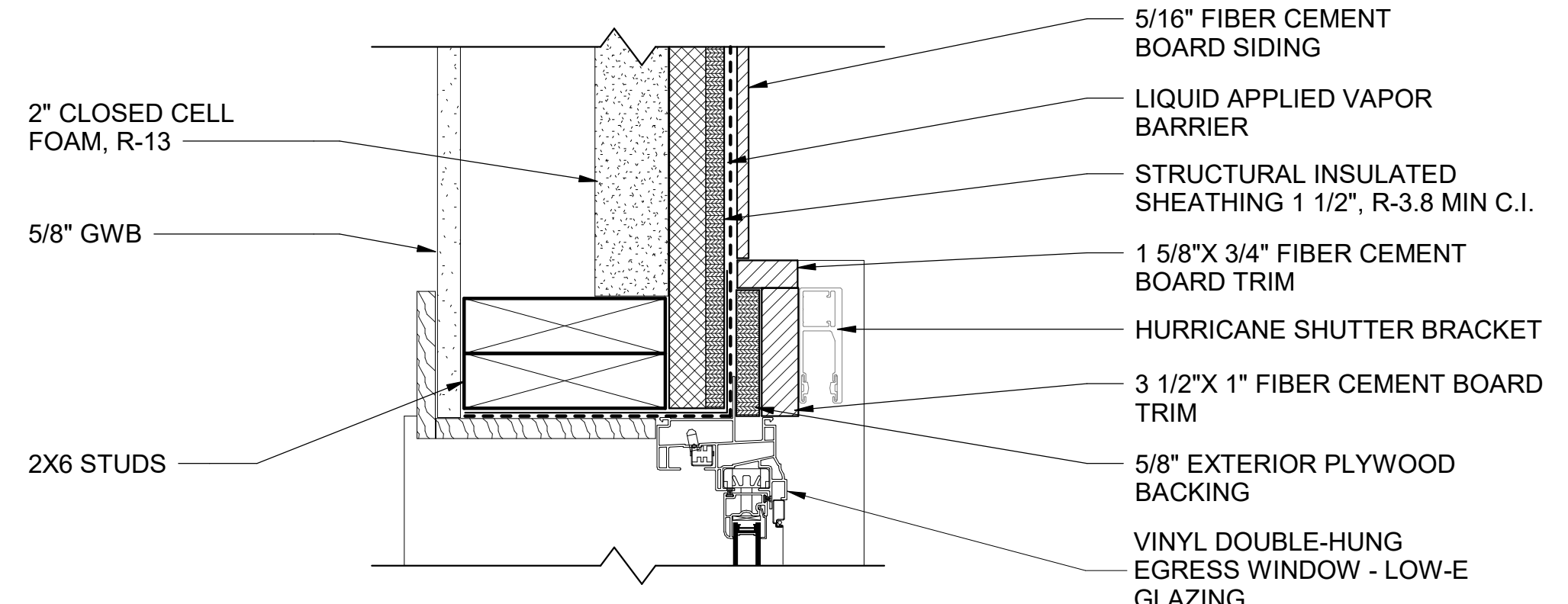
SILL

A1 EXTERIOR DOOR DETAILS

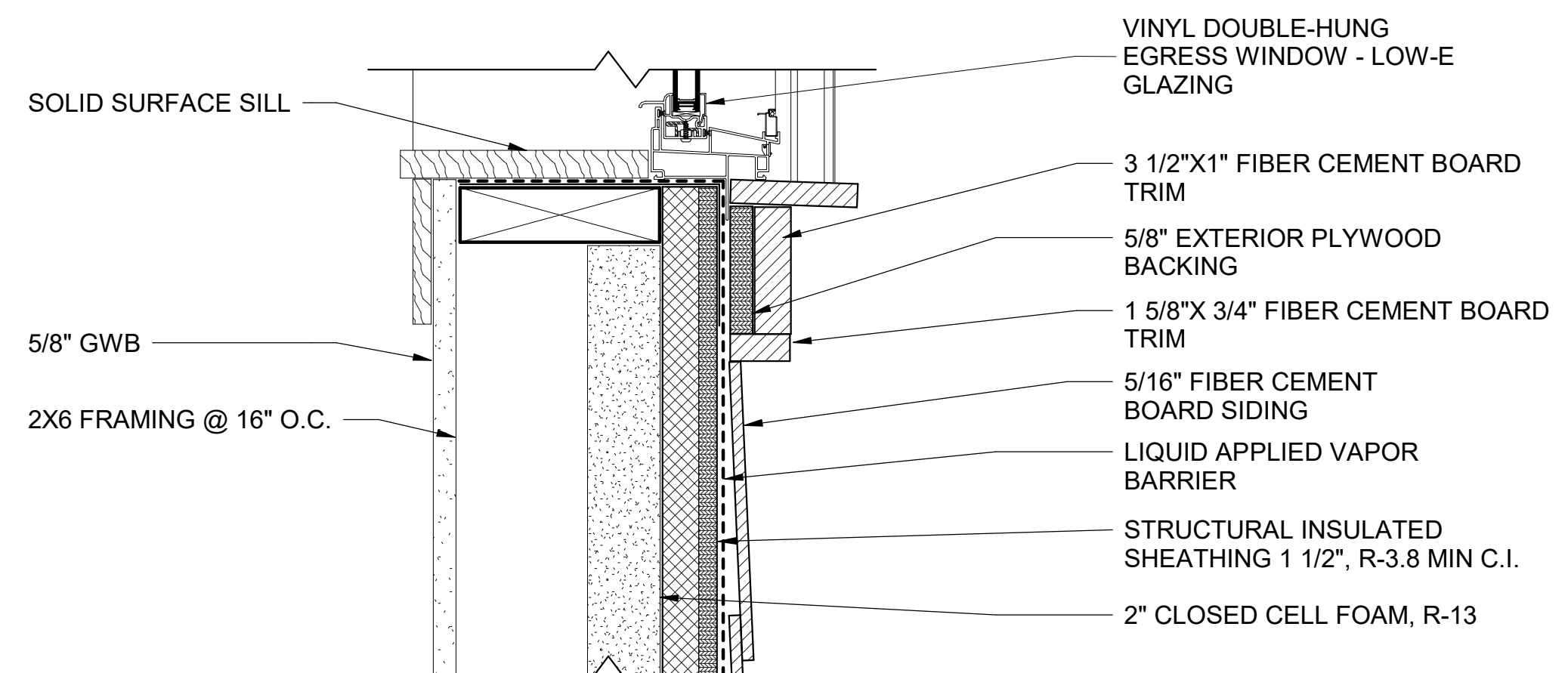
SCALE: 3" = 1'-0"



HEAD



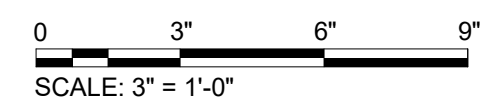
JAMB



SILL

A4 WINDOW HEAD JAMB SILL DETAIL

SCALE: 3" = 1'-0"



SCALE: 3" = 1'-0"



1

2

3



4

5

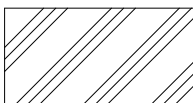
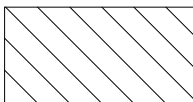
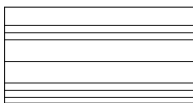
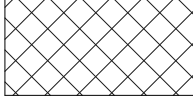
SHEET NOTES

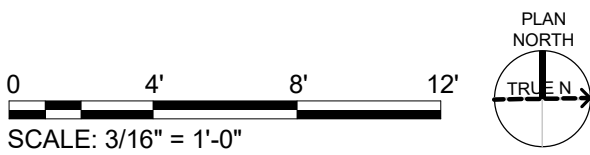
- SEE SHEET A-001 FOR GENERAL NOTES
- SEE SHEET A-002 FOR SYMBOLS AND MATERIALS
- SEE SHEET A-003 FOR TYPICAL MOUNTING HEIGHTS, LOCATIONS AND DETAILS
- SEE SHEET I-601 FOR ROOM FINISH SCHEDULE
- ALL WALLS TO BE PAINTED PT-1 UNLESS OTHERWISE NOTED.
- INSTALL INSETS AT ALL ELECTRICAL FLOOR BOX LOCATIONS, FLOORING TO MATCH ADJACENT FLOORING MATERIAL.
- ALL FINISH SELECTIONS IDENTIFIED IN LEGENDS, SCHEDULES, AND SPECIFICATIONS ARE SUBJECT TO 'OR EQUAL' SUBSTITUTIONS UNLESS NOTED OTHERWISE. THE CONTRACTOR AND SUBCONTRACTORS SHALL SUBMIT PRODUCTS AND FINISHES AS INDICATED IN THE DOCUMENTS.
- NOTIFY OWNER OF SCHEDULED FINISHES THAT ARE UNAVAILABLE OR DISCONTINUED AT THE EARLIEST OPPORTUNITY SUCH THAT A SUBSTITUTION CAN BE SELECTED WITHOUT JEOPARDIZING THE CONSTRUCTION SCHEDULE.
- INSTALL ALL FINISH MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS, SURFACE PREPARATION, ADHESIVES AND BACKINGS; INCLUDING WALLCOVERINGS, COATINGS, FLOORING MATERIALS, LAMINATES, ETC.
- FLOOR MATERIAL TRANSITIONS AT DOOR OPENINGS ARE TO BE CENTERED BELOW THE DOOR IN THE CLOSED POSITION, UNLESS NOTED OTHERWISE. SEE ALSO TRANSITION DETAILS ON SHEET I-601.
- PROVIDE TRANSITION STRIPS AT ALL FLOORING MATERIAL CHANGES, UNLESS NOTED OTHERWISE PER DETAIL(S) ON SHEET I-601. RESILIENT TRANSITION STRIPS TO MATCH BASE COLOR UNLESS NOTED OTHERWISE. WHEN PROVIDED, REFER TO PLAN FOR ADDITIONAL DETAIL LOCATIONS.
- WHERE FLOOR FINISH THICKNESS REQUIRES, FLOAT FLOOR SLAB AT FINISH TRANSITION AREAS A MINIMUM OF 2'-0" OR TO ACHIEVE A UNIFORM AND FLUSH TRANSITION BETWEEN FINAL FINISHED SURFACES.
- ACCESS PANELS, VISIBLE COVES OR ENCASEMENTS, VISIBLE ELECTRICAL PANELS, ETC. TO BE PAINTED TO MATCH ADJACENT SURFACES
- ALL INTERIOR WALLS, TRIM AND CEILING FINISHES OF PUBLIC AREAS TO COMPLY WITH CLASS A MATERIAL CLASSIFICATION; FLAME SPREAD RATING 0 TO 25, SMOKE DEVELOPED 200. ALL INTERIOR WALL AND CEILING FINISHES AND TRIM IN NON PUBLIC AREAS TO COMPLY WITH CLASS B MATERIAL CLASSIFICATION; FLAME SPREAD RATING 26 TO 75, SMOKE DEVELOPED 450, PER IBC CHAPTER 8.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR MEETING ALL ACCESSIBILITY REQUIREMENTS FOR ALL FLOORING AND WALL SYSTEMS.
- PROVIDE MOISTURE TESTING OF CONCRETE PER FLOOR MFR PRIOR TO INSTALLATION OF FLOORING SYSTEMS.
- PROVIDE 2 1/2" X 2 1/2" X 48" HIGH STAINLESS-STEEL CORNER GUARDS AT ALL EXPOSED GYPSUM BOARD CORNERS. ALL CORNER GUARDS TO BE SET DIRECTLY ABOVE THE FLOOR BASE.

FINISH LEGEND

-  FAUX WOOD BLINDS
-  SOLID SURFACE WINDOW SILL

FLOOR FINISH LEGEND

-  LVT-100
-  LVT-101
-  PFT-100
-  PFT-101



100% ISSUED FOR CONSTRUCTION



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: K. SHELL  
DRAWN BY: K. SHELL  
CHECKED BY: A. DIS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

INTERIOR FINISH  
PLAN

SHEET NUMBER

I-101

ORIGINAL SHEET SIZE:  
24" X 36"

2/10/2025 12:17:57 PM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_ARCH\_V21.rvt



2/10/2025 12:17:58 PM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_ARCH\_V21.rvt

D

C

B

A

FINISH SCHEDULE									
SPACE		FLOOR		WALLS				CEILING	REMARKS
ROOM NO.	ROOM NAME	MAT.	BASE	NORTH	EAST	SOUTH	WEST	FIN.	
100	LIVING/DINING AREA	LVT-100	RB-100	PT-100	PT-100	PT-100	PT-100	CP-100	
101	CORRIDOR	LVT-100	RB-100	PT-100	PT-100	PT-100	PT-100	CP-100	
102	KITCHEN	LVT-100	RB-100	PT-100	PT-100	PT-100	PT-100	CP-100	
103	CORRIDOR	LVT-100	RB-100	PT-100	PT-100	PT-100	PT-100	CP-100	
104	JAN	LVT-100	RB-100	FRP/PT-101	FRP/PT-101	FRP/PT-101	FRP/PT-101	CP-100	
105	LAUNDRY	PFT-100	PTB-100	PT-101	PT-101	PT-101	PT-101	CP-100	
106	BEDROOM	LVT-101	RB-100	PT-100	PT-100	PT-100	PT-100	CP-100	
107	BEDROOM	LVT-101	RB-100	PT-100	PT-100	PT-100	PT-100	CP-100	
108	APARTMENT	LVT-101	RB-100	PT-100	PT-100	PT-100	PT-100	CP-100	
109	CLOSET	LVT-101	RB-100	PT-100	PT-100	PT-100	PT-100	CP-100	
110	ADA BATHROOM	PFT-100	PTB-100	PWT-100/PT-101	PWT-100/PT-101	PT-101	PT-101	CP-100	R1. R2.
111	RESTROOM	PFT-100	PTB-100	PWT-10	PWT-100/PT-101	PT-101	PWT-100	CP-100	R1. R2.
112	RESTROOM	PFT-100	PTB-100	PWT-100	PWT-100	PT-101	PWT-100/PT-101	CP-100	R1. R2.
113	CORRIDOR	LVT-100	RB-100	PT-100	PT-100	PT-100	PT-100	CP-100	
114	BEDROOM	LVT-101	RB-100	PT-100	PT-100	PT-100	PT-100	CP-100	
115	BEDROOM	LVT-101	RB-100	PT-100	PT-100	PT-100	PT-100	CP-100	
116	APARTMENT	LVT-101	RB-100	PT-100	PT-100	PT-100	PT-100	CP-100	
117	CLOSET	LVT-101	RB-100	PT-100	PT-100	PT-100	PT-100	CP-100	
118	ADA BATHROOM	PFT-100	PTB-100	PWT-100/PT-101	PWT-100/PT-101	PT-101	PWT-100	CP-100	R1. R2.
119	ADA RESTROOM	PFT-100	PTB-100	PWT-100/PT-101	PWT-100	PT-101	PWT-100/PT-101	CP-100	R1. R2.
120	ADA RESTROOM	PFT-100	PTB-100	PT-101	PWT-100	PT-101	PT-101	CP-100	R1

**NOTE:** CONTRACTORS ARE FREE TO USE ANY PRODUCT WHICH MEETS THE GOVERNMENT'S MINIMUM REQUIREMENTS AND NOT IN CONFLICT WITH OTHER CONTRACT PROVISIONS. UNLESS INDICATED OTHERWISE ON THE PLANS OR SPECIFICATIONS (E.G. SOLE-SOURCE), ALL LISTED MANUFACTURERS ARE THE BASIS OF DESIGN. FOR THESE BASIS OF DESIGN PRODUCTS, OTHER MANUFACTURERS MAY BE SUBSTITUTED AS LONG AS THE STANDARD OF QUALITY AND CHARACTERISTICS OF THE SUBSTITUTED MANUFACTURER MEET OR EXCEED THE STANDARD OF QUALITY AND CHARACTERISTICS OF THE BASIS OF DESIGN.

### FINISH LEGEND

#### CEILING

CP-100 CEILING PAINT: SHERWIN WILLIAMS, HIGH REFLECTIVE WHITE, SW7757

#### WALLS

PT-100 PAINT: SHERWIN WILLIAMS, AGREEABLE GRAY, SW7029, EGGSHELL  
PT-101 PAINT: EPOXY PAINT, TWO-PART WATERBASE CATALYZED EPOXY, SHERWIN WILLIAMS, AGREEABLE GRAY, SW7029, EGGSHELL  
PT-102 PAINT: SHERWIN WILLIAMS, RETREAT, SW6207, EGGSHELL  
PT-103 PAINT: SHERWIN WILLIAMS, MOUNTAIN ROAD, SW7743, EGGSHELL  
PT-104 PAINT: SHERWIN WILLIAMS, THUNDEROUS, SW6201, EGGSHELL  
TP-100 TRIM PAINT: SHERWIN WILLIAMS, AGREEABLE GRAY, SW7029, SEMIGLOSS  
PWT-100PORCELAIN WALL TILE: DAL TILE, AVERY, WHITE AV17, 12"X24".TO BE INSTALLED ON ALL SHOWER WALLS AND WET WALLS, INSTALL VERTICAL 1/3 OFFSET  
PWT-101PORCELAIN WALL TILE: ARCHITESSA, DAVENPORT WHITE MATTE WALL TILE, 4000-0171-0, 4"X16", INSTALL HORIZONTAL 1/3 OFFSET

#### WALL BASE

RB-100 RUBBER WALL BASE: BURKE, EDGE EFFECTS SIMPLICITY EESIM, EACH SAND 030, 4" HIGH  
PTB-100 PORCELAIN WALL BASE: ATLAS CONCORDE USA, FRAY, TAUPE, BULLNOSE BASE 6"X12"  
PTB-1 NOT TO BE USED WITH WALL TILE.

#### FLOOR

PFT-100 PORCELAIN FLOOR TILE: ATLAS CONCORDE USA, FRAY, TAUPE, 12"X24", INSTALLED 1/3 OFFSET  
PFT-101 PORCELAIN FLOOR TILE: ATLAS CONCORDE USA, FRAY, TAUPE, HERRINGBONE MOSAIC 12"X12", TO BE INSTALLED IN ALL SHOWER FLOORS.  
LVT-100 LUXURY VINYL TILE: J+J FLOORING, FRAMEWORK V5001, ANCHOR 1012, 9"X48", INSTALLED OFFSET  
LVT-101 LUXURY VINYL TILE: J+J FLOORING, TATMI V5003, GOZA 1021, 18"X36", INSTALLED OFFSET

#### MISC.

QTZ QUARTZ: CORIAN, QUARTZ, ANTIQUE PEARL  
SS SOLID SURFACE: FORMICA, COFFEE SILICA 763  
PL-100 PLASTIC LAMINATE: WILSONART, WILSONART, STUDIO TEAK 7960K-18  
WB FAUX WOOD BLINDS: SWF CONTRACT, FAUX PREMIUM WOOD BLINDS, 2" SLATS, MATCHING VALANCE, CORDLESS TILT ONLY, COLOR: MOREL 2706  
GR-100 GROUT: MAPIE, KERAPOXY, DRIFTWOOD 105  
GR-101 GROUT: MAPIE, KERAPOXY, FROST 77  
GR-102 GROUT: MAPIE, KERAPOXY, SAHARA BEIGE 11  
ST WOOD DOOR STAIN: STAIN TO MATCH WILSONART STUDIO TEAK 7960K-18

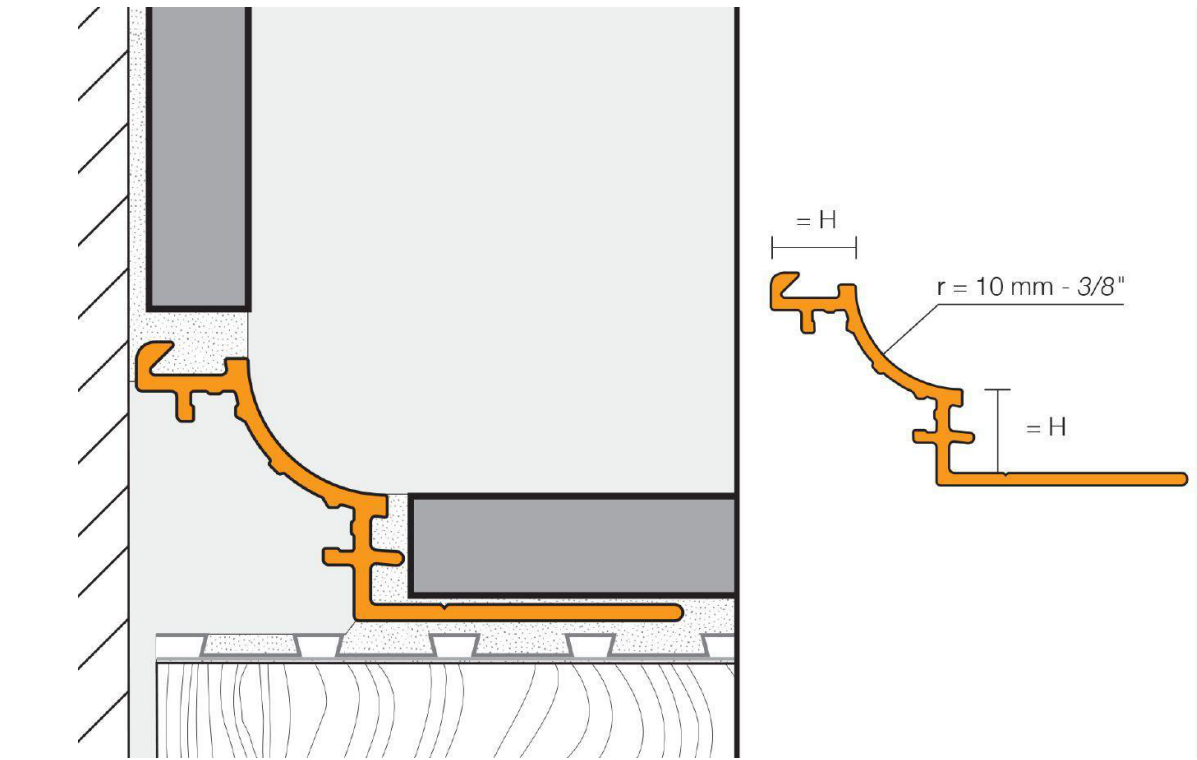
### REMARKS

R1. PWT-100 TO ABUTT PFT-100 ON WET WALLS WITH SCHLUTER TRANSITION TRIM.  
R2. SHOWERS TO HAVE PWT-100 ON ALL WALLS.

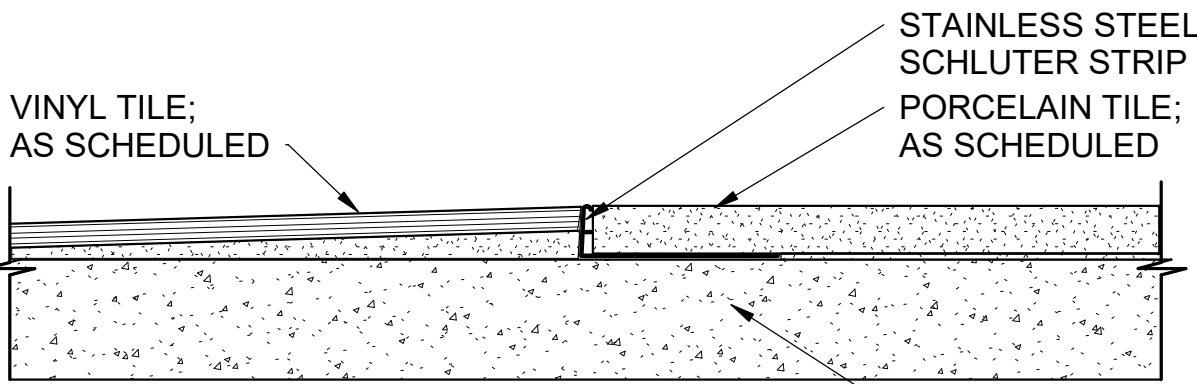
B3

N.T.S

### FLOOR TO WALL TILE TRANSITION DETAIL



\*FEATHER FLOOR WITH LEVELING COMPOUND TO ALLOW SMOOTH TRANSITION BETWEEN BOTH FLOORING SURFACES. CONTRACTOR TO ENSURE SMOOTH TRANSITION BETWEEN MATERIALS.



PORCELAIN TO LVT

A3

N.T.S

### TRANSITION DETAILS

### MATERIALS & FINISHES ABBREVIATIONS LIST

ACT	ACOUSTIC CEILING TILE
CG	CORNER GUARD
CONC	CONCRETE
CPT	CARPET
EXP	EXPOSED
GR	GROUT
HPC	HIGH PERFORMANCE COATING
PL	PLASTIC LAMINATE
PFT	PORCELAIN FLOOR TILE
PTB	PORCELAIN TILE BASE
PWT	PORCELAIN WALL TILE
LVT	LUXURY VINYL TILE
PT	PAINT
RB	RUBBER BASE
SS	SOLID SURFACE
STN	STAIN
WP	WALL PROTECTION

### FINISH PLAN GENERAL NOTES

- CONTRACTOR SHALL READ ALL NOTES BEFORE BEGINNING WORK.
- FURNISH AND INSTALL MATERIALS IN COMPLIANCE WITH MANUFACTURER'S PRINTED SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
- ANY DISCONTINUED ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE GOVERNMENT IMMEDIATELY. CONTRACTOR TO NOTIFY GOVERNMENT OF ANY ITEMS REQUIRING FURTHER CLARIFICATION OF FINISH SELECTION.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING OF MATERIALS. DO NOT SCALE ARCHITECTURAL DRAWINGS. REFER TO DIMENSIONED PLANS
- CONTRACTOR SHALL PROVIDE TO OWNER ALL MANUFACTURER'S RECOMMENDED MAINTENANCE INSTRUCTIONS ON ALL FINISH MATERIALS. CONTRACTOR TO PROVIDE GOVERNMENT WITH SHOP DRAWINGS FOR APPROVAL FOR ALL NEW MATERIALS INSTALLED
- INTERIOR CONSTRUCTION REQUIRING FINISH / COLOR SELECTION NOT NOTED WITHIN THE SCHEDULE SHALL BE SUBMITTED TO THE GOVERNMENT IN WRITING, WITH SAMPLES OR FINISH / COLORS AVAILABLE, CLEARLY IDENTIFYING ANY THAT MIGHT BE AT A PREMIUM ABOVE THE PRODUCT BID.
- ALL PRODUCT SPECIFICATIONS ARE GIVEN TO DEFINE DESIGN, COLOR AND QUALITY. SUBSTITUTIONS REQUIRE THE PRIOR APPROVAL OF THE GOVERNMENT. PROPOSED SUBSTITUTIONS SHALL ADHERE TO THE INTENT OF THE QUALITY, DESIGN, COLOR AND PATTERN.
- ALL FIRE HOSE CABINETS, FIRE EXTINGUISHER CABINETS AND ELECTRICAL PANELS SHALL NOT BE PAINTED AS THEY ARE PRE-FINISHED.

### MILLWORK NOTES

- SHOP TO BE CERTIFIED PARTICIPANT IN AWI'S QUALITY CERTIFICATION PROGRAM. NO EXCEPTIONS TAKEN. MILLWORK SHOP TO PROVIDE SHOP DRAWING FOR REVIEW AND APPROVAL BY DESIGNER.
- ALL MILLWORK TO MEET AWI'S PREMIUM STANDARD.
- 120 DEGREE EURO SELF CLOSING HINGES.
- MILLWORK, DOORS TO BE FLUSH OVERLAY W/ CONCEALED EUROPEAN HINGES AND 1 7/8"X3 7/8 EDGE PULL, CLEAR SATIN FINISH. MILLWORK SHOP TO PROVIDE SAMPLE TO BE APPROVED BY GOVERNMENT.
- ALL MDF AND PLYWOOD PRODUCTS TO CONTAIN NO ADDED UREA FORMALDEHYDE.

### DOOR & FRAME NOTES

- ALL NEW DOOR FRAMES SHALL BE PAINTED TP-100 ON BOTH SIDE OF DOORS (UNLESS NOTED OTHERWISE).

### FLOOR FINISH NOTES

- CONTRACTOR TO FOLLOW MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS ON ALL FLOORING PRODUCTS AND USE THE ADHESIVES, EQUIPMENT / TOOLS REQUIRED / RECOMMENDED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- CONTRACTOR TO FOLLOW MANUFACTURER'S PRINTED INSTRUCTIONS ON PROTECTION OF FLOORING MATERIAL AFTER INSTALLATION. PROTECT FLOORING AGAINST MARS, INDENTATIONS AND OTHER DAMAGE FROM CONSTRUCTION OPERATIONS. PLACEMENT OF EQUIPMENT AND FIXTURES DURING THE REMAINDER OF THE CONSTRUCTION PERIOD. USE PROTECTION METHODS INDICATED OR RECOMMENDED IN WRITING BY THE FLOOR COVERING MANUFACTURER.
- CONTRACTOR TO PROVIDE AND INSTALL APPROPRIATE TRANSITION STRIPS WHERE DIFFERING MATERIALS ABUT IF NOT NOTED OTHERWISE. PROVIDE GOVERNMENT WITH COLOR SAMPLES TO SELECT FROM.
- FLOOR FINISH CHANGES SHALL OCCUR UNDER THE DOOR CENTERLINE (OR CENTER OF THE WALL OPENING IF NO DOOR) BETWEEN ROOMS.
- WATER BASED NON-SKID FINISH TO BE APPLIED TO ALL POLISHED CONCRETE.
- CONTRACTOR TO RECESS FLOOR SLAB WERE RECESSED WALK OFF GRILLS ARE SPECIFIED, SEE MANUFACTURER FOR DEPTH.
- CONTRACTOR TO INSTALL SCHLUTER DITRA, UNCOUPLING MEMBRANE OR APPROVED EQUAL. UNDER ALL PORCELAIN TILE FLOORS. AT ALL PERIMETER LOCATION WHERE PORCELAIN TILE IS INSTALLED, GC SHALL INSTALL SCHLUTER DILEX-BWA PERIMETER JOINT PROFILE.
- ALL FLOORING SHOULD CONTINUE UNDER EQUIPMENT AND VANITIES.
- PFT-100, PORCELAIN FLOOR TILE TO BE INSTALLED WITH A 1/3 OFFSET PATTERN. GC TO USE GR-100

### WALL FINISH NOTES

- MISCELLANEOUS GRILLS AND ACCESSORIES SHALL BE PAINTED TO MATCH ADJACENT WALL FINISHES UNLESS THEY ARE PREFINISHED. CONTRACTOR TO VERIFY PAINT COLOR WITH GOVERNMENT.
- SEE FLOOR FINISH PLAN FOR ACCENT PAINT WALL LOCATIONS.

### WINDOW NOTES

- ALL WINDOW SILLS TO BE SS
- WINDOW BLINDS WITH FASCIA, WB



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: K. SHELL  
DRAWN BY: K. SHELL  
CHECKED BY: A. DIS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

FINISH SCHEDULE  
& GENERAL  
NOTES

SHEET NUMBER

I-601

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



1

2

3

4

5

SHEET NOTES

1. THIS PLAN IS PROVIDED FOR COORDINATION PURPOSES OF FURNITURE, EQUIPMENT, APPLIANCES, SIGNAGE, ACCESS CONTROL, AND SECURITY. IF CONFLICTS ARE IDENTIFIED, PLEASE NOTIFY TENANT AND/OR OWNER IMMEDIATELY.
2. REFER TO ARCHITECTURAL GENERAL NOTES ON A-002 FOR ADDITIONAL INFORMATION.
3. REFER TO A-005 FOR WALL TYPES.
4. DETAIL REFERENCES SHOULD BE APPLIED TO ALL INSTANCES WHERE THE SAME CONDITIONS OCCUR, UNLESS NOTED OTHERWISE.
5. FURNITURE PROVIDED BY GOVERNMENT, SHOWN FOR REFERENCE ONLY.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: K. SHELL  
DRAWN BY: K. SHELL  
CHECKED BY: A. DIS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE  
FURNITURE PLAN

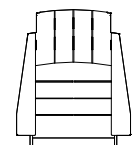
SHEET NUMBER

IF-101

ORIGINAL SHEET SIZE:  
24" X 36"

FURNITURE LEGEND

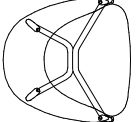
GOVERNMENT FURNISHED, GOVERNMENT INSTALLED



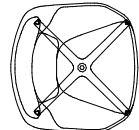
C1 OUTDOOR LOUNGE CHAIR



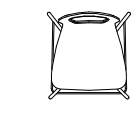
C2 DINING CHAIR



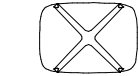
C3 LOUNGE CHAIR



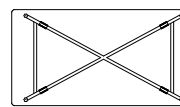
C4 LOUNGE CHAIR



C5 OUTDOOR DINING CHAIR



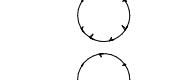
C6 OTTOMAN



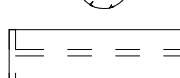
T3 COFFEE TABLE



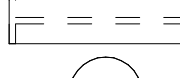
T4 SIDE TABLE



T5 18"H SIDE TABLE



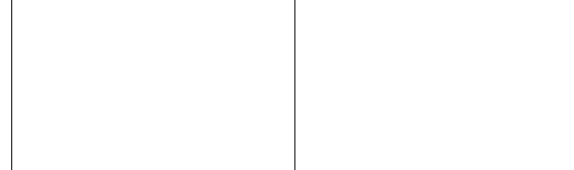
T6 22"H SIDE TABLE



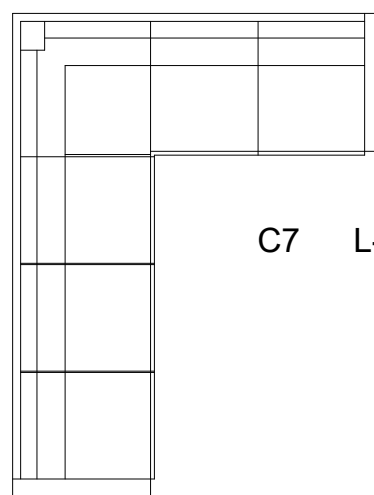
T7 OUTDOOR DINING TABLE



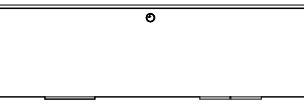
T8 OUTDOOR SIDE TABLE



T9 COMMUNITY DINING TABLE



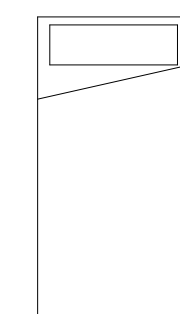
C7 L-SHAPE SECTIONAL



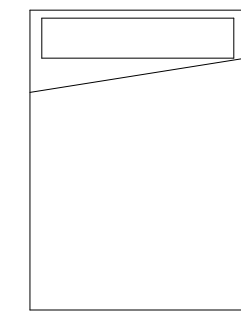
T1 CREDENZA



T2 NIGHTSTAND



B1 TWIN BED

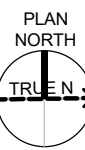


B2 DOUBLE BED

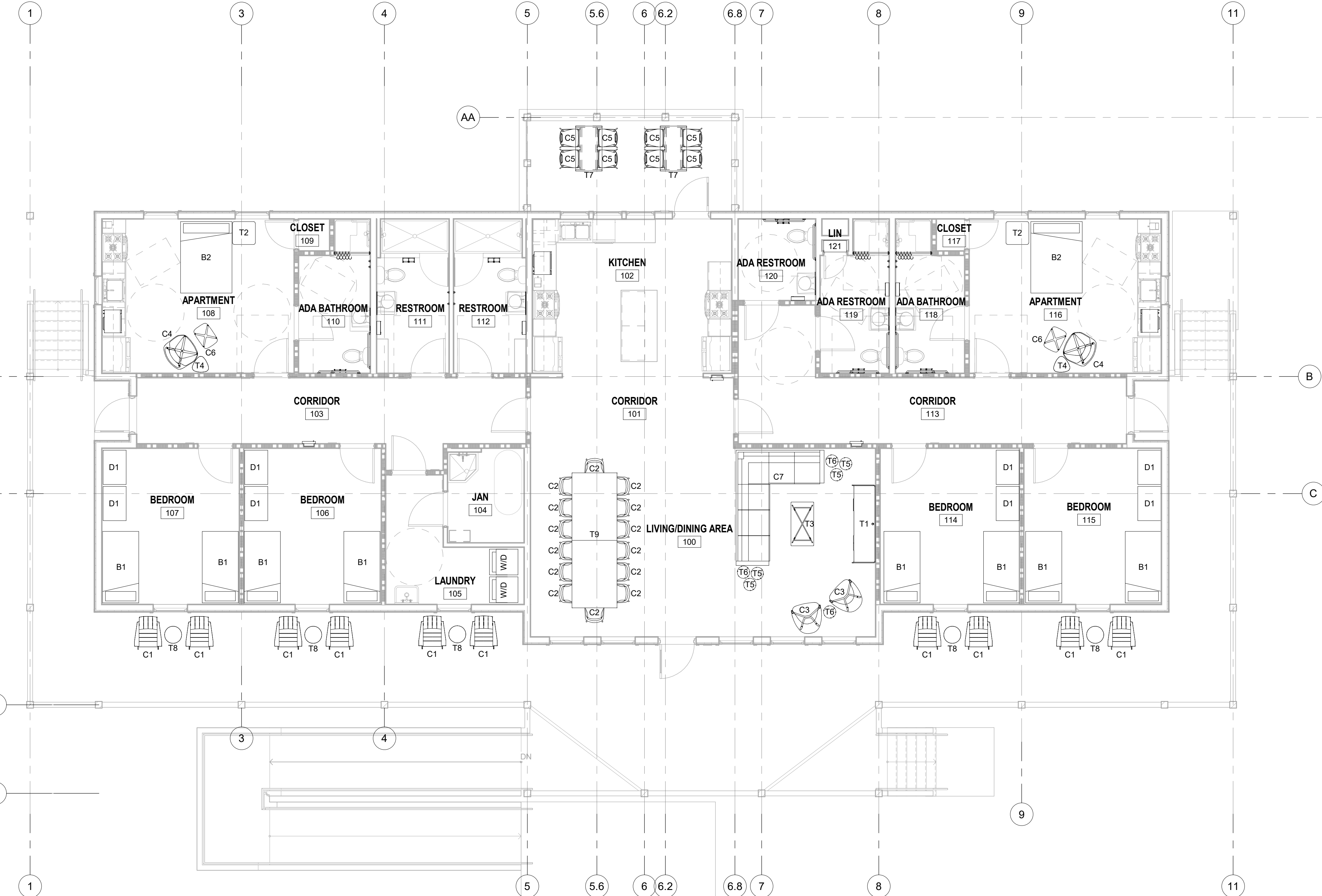


D1 DRESSER

0 4' 8' 12'  
SCALE: 3/16" = 1'-0"



100% ISSUED FOR CONSTRUCTION



A1 FURNITURE PLAN  
SCALE: 3/16" = 1'-0"



1

2

3

4

5

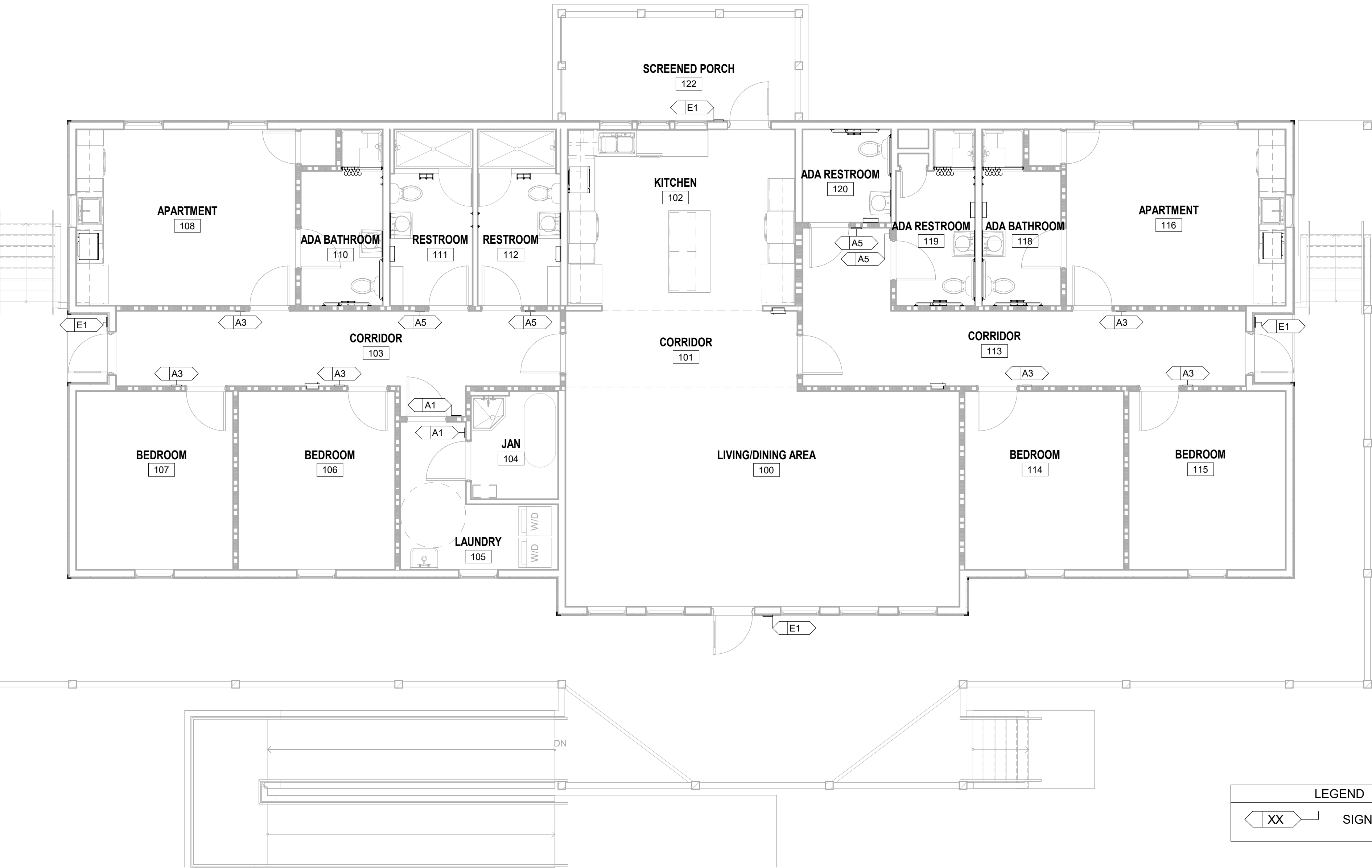
D

C

B

A

2/10/2025 12:18:00 PM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_ARCH\_V21.rvt



**A1** LEVEL 1 - SIGNAGE PLAN  
SCALE: 3/16" = 1'-0"



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: K. SHELL  
DRAWN BY: K. SHELL  
CHECKED BY: A. DIS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SHEET TITLE

SIGNAGE PLAN

SHEET NUMBER

IG-101

ORIGINAL SHEET SIZE:  
24" X 36"

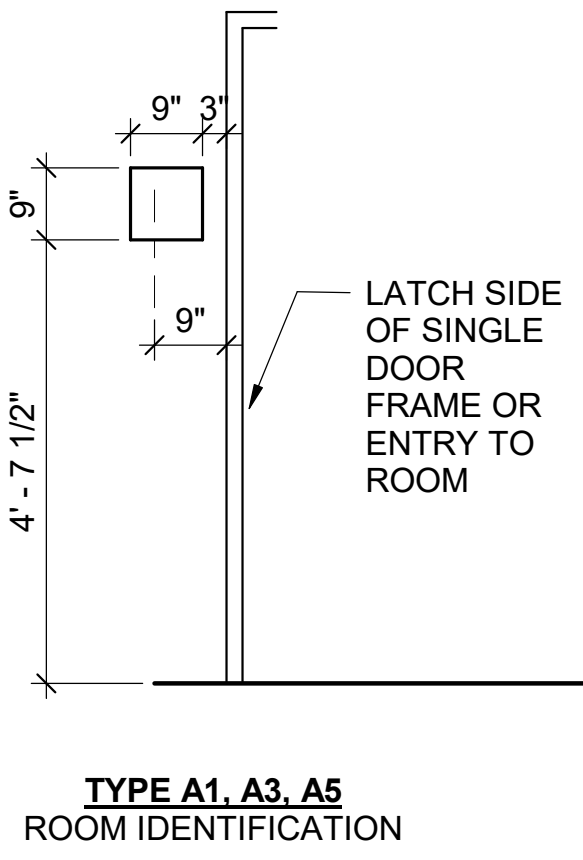
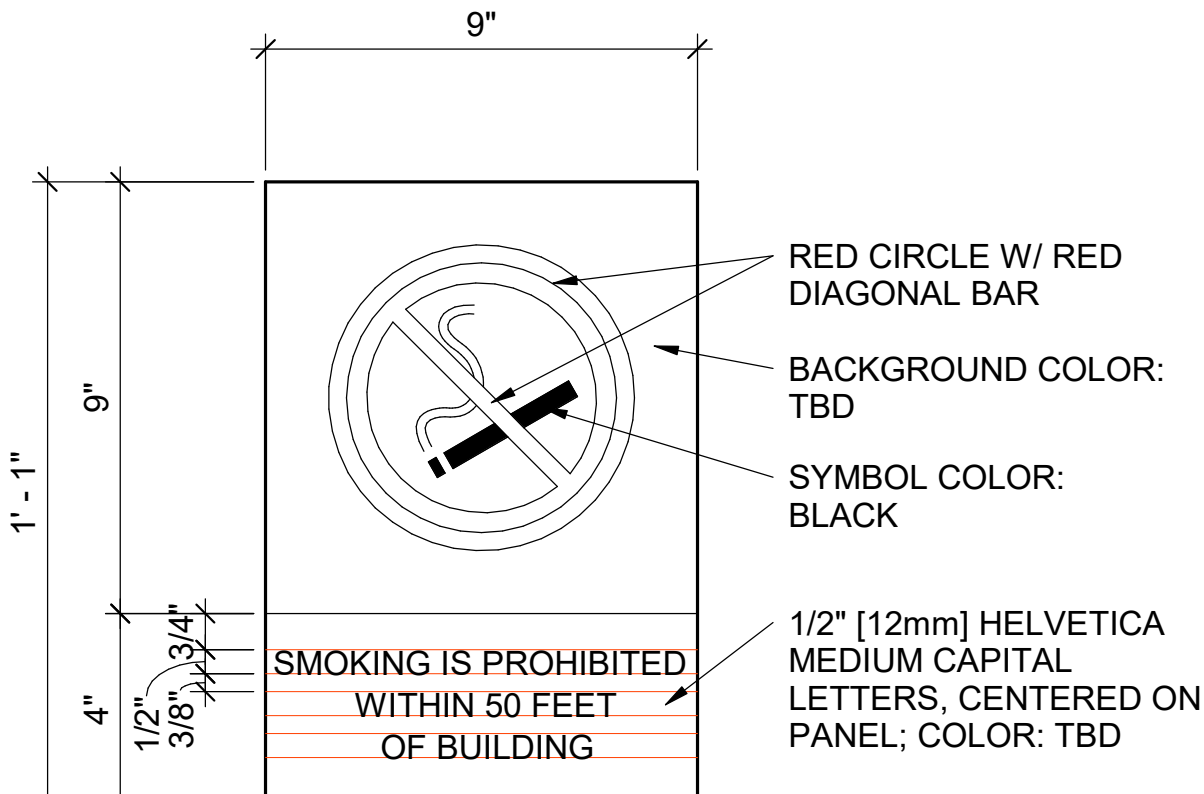
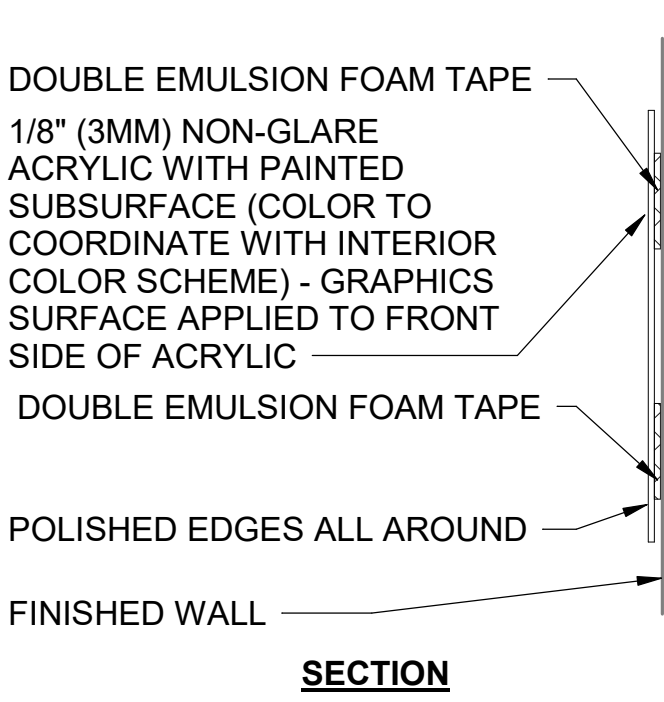
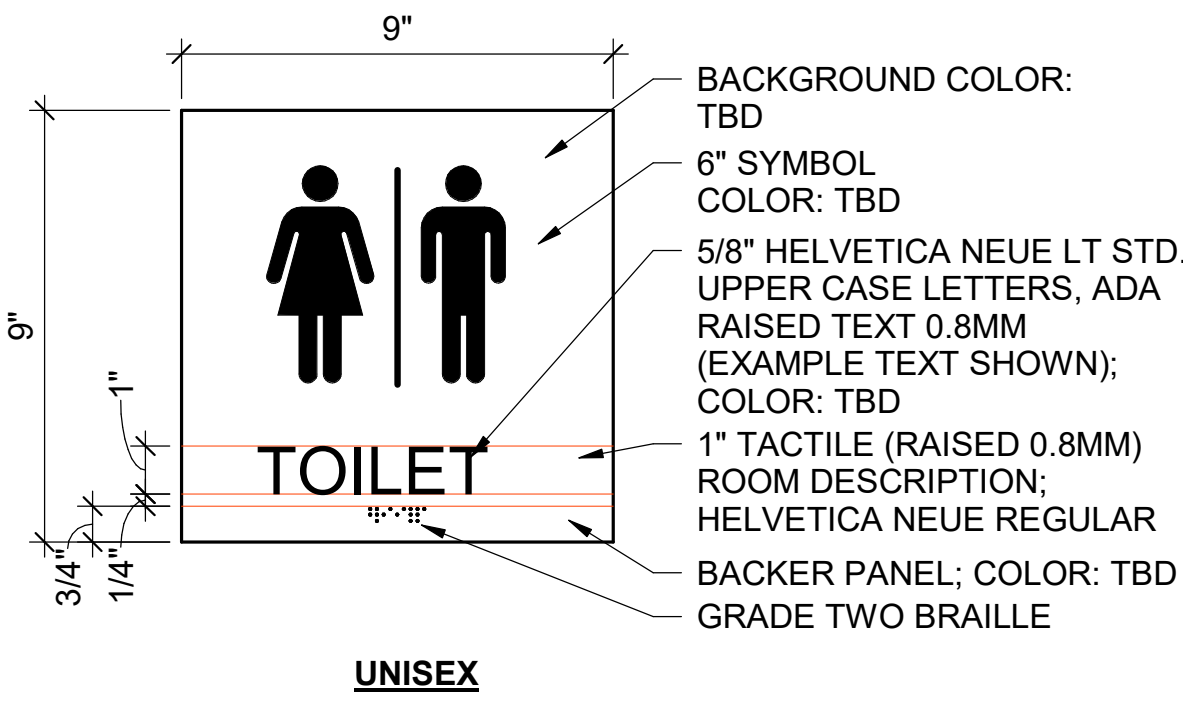
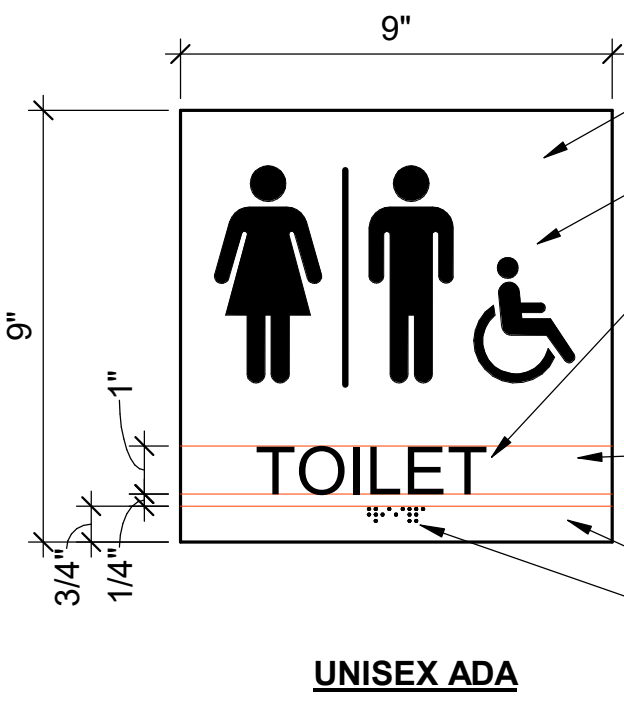
100% ISSUED FOR CONSTRUCTION



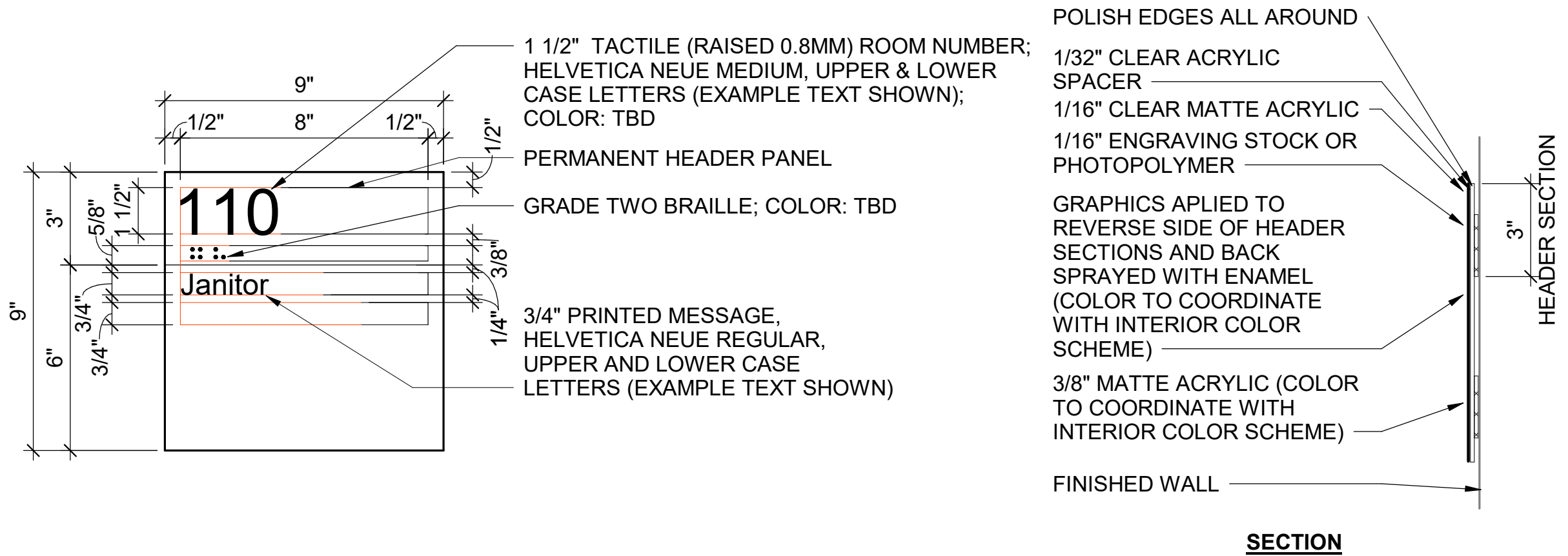
SIGNAGE SCHEDULE							
DOOR TAG	ROOM DATA		ROOM NO. ON SIGN	EXACT TEXT FOR SIGNAGE MESSAGE	MOUNTING LOCATION L = LEFT OF DOOR R = RIGHT OF DOOR C = CENTER OF DOOR	SIGN TYPE	REMARKS
	ROOM NUMBER	ROOM NAME ON SIGN					
102	102	KITCHEN	-	NO SMOKING	R	E1	
104	104	JAN	104	JANITOR	L	A1	
105	105	LAUNDRY	105	LAUNDRY	L	A1	
106	106	BEDROOM	106	TBD	R	A3	
107	107	BEDROOM	107	TBD	R	A3	
108	108	APARTMENT	108	TBD	L	A3	
111	111	RESTROOM	111	RESTROOM	L	A5	
112	112	RESTROOM	112	RESTROOM	R	A5	
114	114	BEDROOM	114	TBD	L	A3	
115	115	BEDROOM	115	TBD	L	A3	
116	116	APARTMENT	116	TBD	R	A3	
119	119	ADA RESTROOM	119	RESTROOM	L	A5	
120	120	ADA RESTROOM	120	RESTROOM	R	A5	
E001	100	LIVING/DINING AREA	-	NO SMOKING	R	E1	
E002	113	CORRIDOR	-	NO SMOKING	R	E1	
E003	103	CORRIDOR	-	NO SMOKING	L	E1	

SIGNAGE SCHEDULE GENERAL NOTES

- SIGNAGE TO COMPLY WITH THE APPLICABLE REQUIREMENTS OF NFPA 101, IBC, AND ICC A117.1-2009.
- SIGN TYPES ARE CLASSIFIED BY FUNCTION ACCORDING TO THE FOLLOWING CATEGORIES:  
TYPE A - ROOM, SPACE, AND WORKSTATION IDENTIFICATION.  
TYPE B - LIFE SAFETY
- CONTRACTOR TO COORDINATE SIGNS WITH SIGNAGE STANDARDS AND TYPES PRIOR TO FABRICATION.
- VERIFY ROOM NUMBERS, ROOM NAMES, TEXT, GRAPHICS, AND LOCATION OF SIGNS WITH CONTRACTING OFFICER'S REPRESENTATIVE.
- MOUNTING LOCATION REFERS TO THE LOCATION OF THE SIGN WHILE FACING THE DOOR / FRAME.  
L=LEFT  
R=RIGHT  
C=CENTER OF DOOR LEAF  
ADJ=ADJACENT WALL AS SHOWN ON SIGNAGE PLAN
- COLOR(S) OF PANEL SIGNAGE BACKING MATERIAL TO BE SELECTED DURING SUBMITTAL REVIEWS.
- RAISED TEXT AND BRAILLE CHARACTERS SHALL BE WHITE, UNLESS NOTED OTHERWISE.
- TACTILE ELEVATOR HOISTWAY LEVEL INDICATOR SIGNS TO BE FURNISHED AND INSTALLED BY ELEVATOR MANUFACTURER.
- SIGNAGE FOR FIRE EXTINGUISHERS (FE) AND FE CABINETS TO BE FURNISHED BY MANUFACTURER AND INSTALLED BY CONTRACTOR.
- ALL INTERIOR SIGNAGE SHOULD HAVE DOUBLE SIDED EMULSION FOAM TAPE AND ALL EXTERIOR PERMANENT SIGNAGE TO HAVE COUNTERSUNK SCREWS.
- CLEAR ACRYLIC NOT ACCEPTABLE. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARDS.

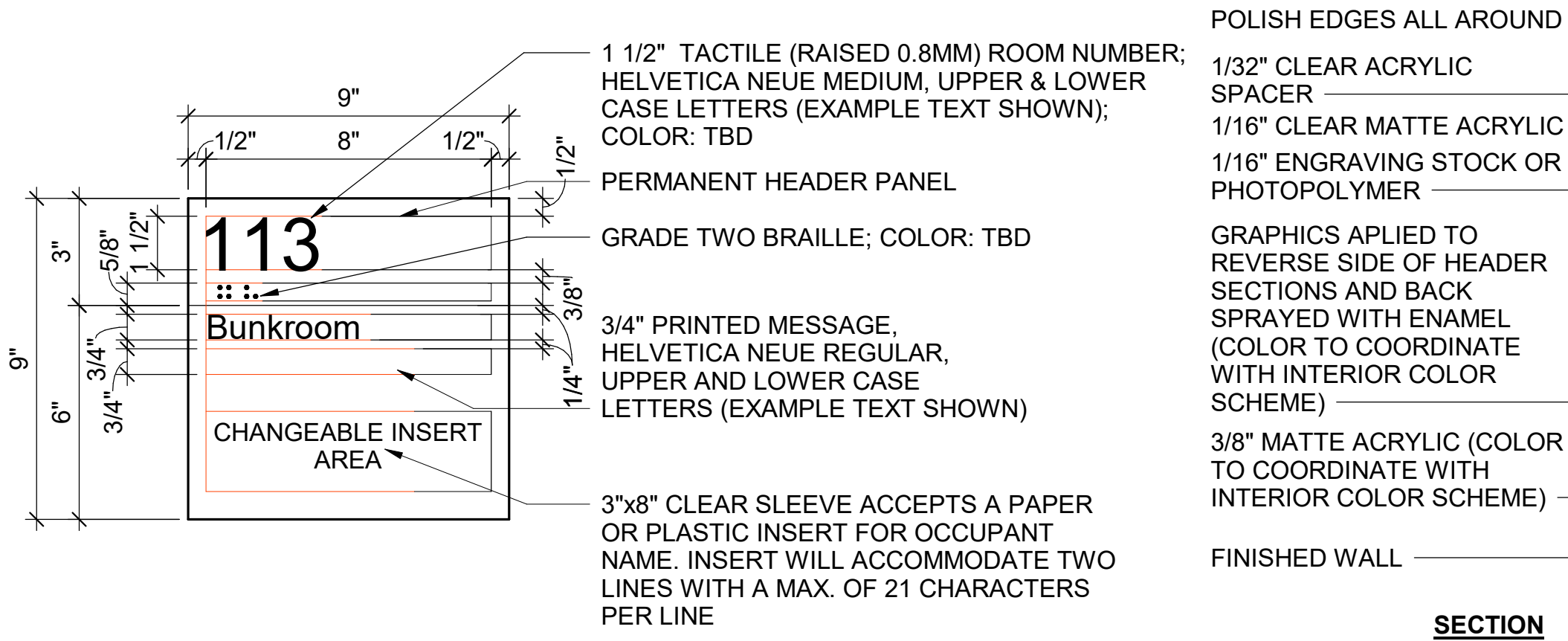


B1 SIGNAGE A5  
SCALE: 3" = 1'-0"



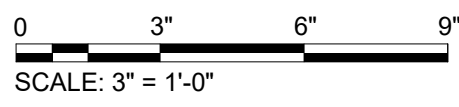
A1 SIGNAGE A1  
SCALE: 3" = 1'-0"

B4 SIGNAGE E1  
SCALE: 3" = 1'-0"



A3 SIGNAGE A3  
SCALE: 3" = 1'-0"

B5 SIGN TYPE PLACEMENT  
SCALE: 1/2" = 1'-0"



Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

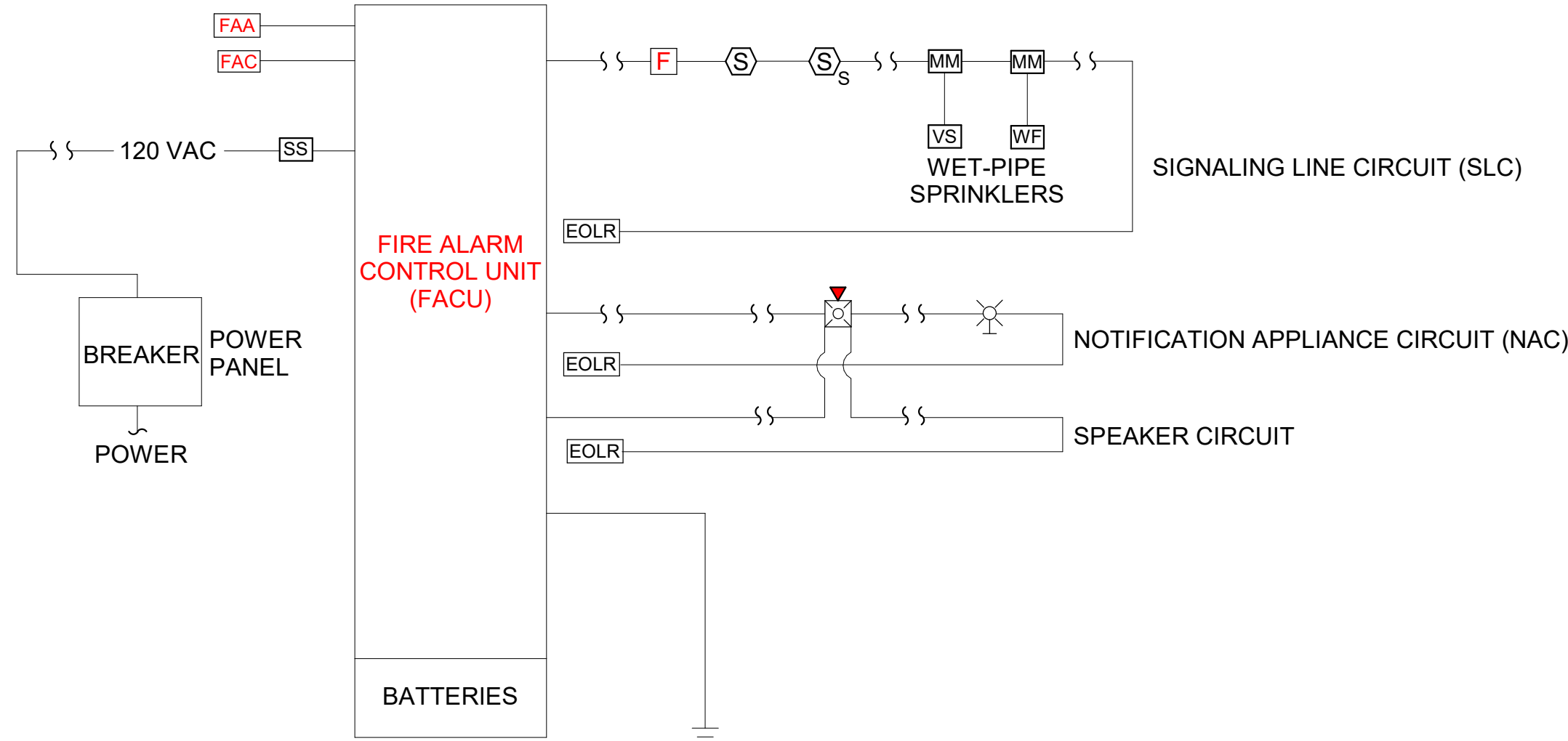
DESIGNED BY: K. SHELL  
DRAWN BY: K. SHELL  
CHECKED BY: A. DIS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2025  
PROJECT #: 1220834

SIGNAGE  
SCHEDULE

IG-601



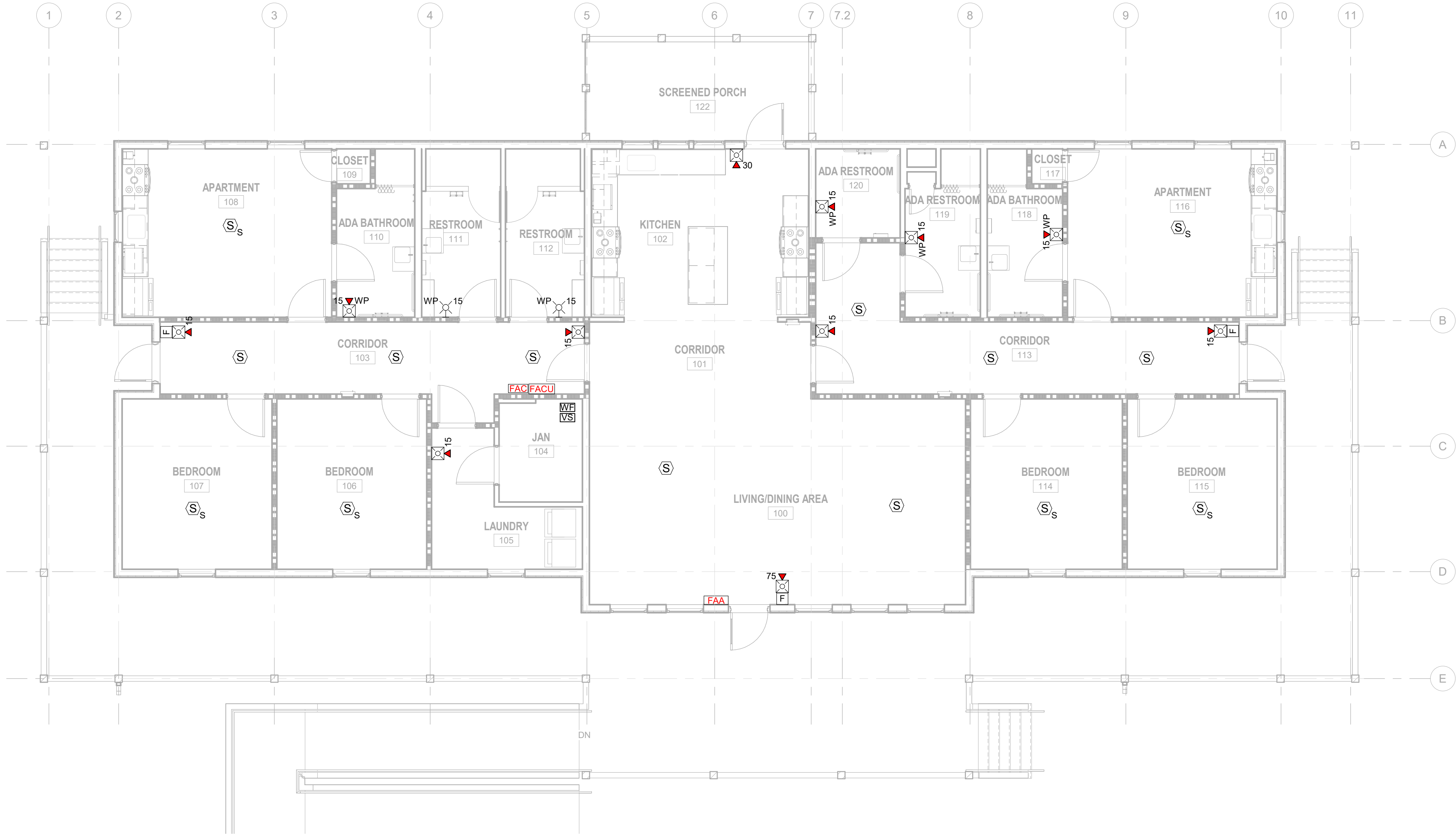
2/10/2025 11:04:49 AM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_MEFP\_V21.rvt



C1 FIRE ALARM RISER DIAGRAM  
N.T.S.

SYSTEM INPUTS		SYSTEM OUTPUTS							
FIRE ALARMS		FACU		CENTRAL STATION			EVAC SIGNALS		
		ACTUATE AUDIO VISUAL ALARM INDICATOR DEVICES	ACTUATE AUDIO VISUAL SUPERVISORY INDICATION DEVICE	ACTUATE AUDIO VISUAL COMMON TROUBLE INDICATOR	TRANSMIT ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO REMOTE STATION	TRANSMIT TROUBLE SIGNAL TO REMOTE STATION	ALERT STROBE THROUGHOUT THE BUILDING	FIRE ALARM EVACUATION SIGNAL THROUGHOUT BUILDING
F1	MANUAL PULL STATION	X			X			X	X
F2	SMOKE DETECTOR	X			X			X	X
F3	WATER FLOW SWITCH	X			X			X	X
SUPERVISORY SIGNALS									
S1	SPRINKLER CONTROL VALVE		X			X			
TROUBLE CONDITIONS									
T1	FIRE ALARM AC POWER FAILURE			X			X		
T2	FIRE ALARM SYSTEM LOW BATTERY			X			X		
T3	OPEN CIRCUIT			X			X		
T4	GROUND FAULT			X			X		
T5	NOTIFICATION APPLIANCE CIRCUIT SHORT			X			X		

C3 FIRE ALARM OPERATIONAL MATRIX  
N.T.S.



A1 FIRE ALARM FLOOR PLAN  
SCALE: 3/16" = 1'-0"

## SHEET NOTES

- DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LOUISIANA STATE UNIFORM CONSTRUCTION CODE (LSUCC) WITH 2023 AMENDMENTS; INTERNATIONAL BUILDING CODE (IBC) 2021 EDITION WITH LSUCC AMENDMENTS; NFPA 1, "FIRE CODE" 2021 EDITION; NFPA 70, "NATIONAL ELECTRICAL CODE" 2023 EDITION; NFPA 72, "NATIONAL FIRE ALARM AND SIGNALING CODE" 2022 EDITION; AND NFPA 101, "LIFE SAFETY CODE" 2021 EDITION.
- CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72, NFPA 101, AND THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ). THE SYSTEM SHALL BE COMPLETE TO PROVIDE ALL NECESSARY EQUIPMENT TO SERVE ALL REQUIRED AREAS.
- FIRE ALARM FLOOR PLAN IS DIAGRAMMATIC AND NOT INTENDED TO SHOW EACH AND EVERY COMPONENT, DEVICE, APPLIANCE, ETC. CONDUIT PATHWAYS AND INTERCONNECTIONS SHALL BE DETERMINED BY THE BUILDING FEATURES, NFPA 70, NFPA 72, SYSTEM MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS.
- CONTRACTOR SHALL REVIEW PROJECT DOCUMENTS AND SPECIFICATIONS PRIOR TO BID TO BECOME FAMILIAR WITH THE SCOPE OF WORK. NOTIFY ENGINEER OF RECORD WITH ANY DISCREPANCIES OUTSIDE THIS DESIGN INTENT. ANY CHANGE ORDER REQUEST AS A RESULT OF COORDINATION BETWEEN TRADES SHALL BE DENIED.
- CONTRACTOR SHALL SUBMIT COMPLETE BATTERY CALCULATIONS, VOLTAGE DROP CALCULATIONS, MATERIAL SPECIFICATION BROCHURE, AND SHOP DRAWINGS TO CONTRACTING OFFICER'S REPRESENTATIVE FOR REVIEW PRIOR TO COMMENCING ORDERING/PURCHASING. FAILURE TO COMPLY IS AT THE RISK OF THE CONTRACTOR.
- ADHERE TO AND OBTAIN ALL PERMITS, LICENSES AND ALL STATE AND LOCAL GOVERNMENT REQUIREMENTS.
- DO NOT SCALE PLANS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS. FIELD DIMENSIONS GOVERN.
- FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE PARTITIONS. FIRE STOPPING SHALL BE OF UL LISTED ASSEMBLY.
- CONTRACTOR SHALL COORDINATE ALL NEW FIRE ALARM WORK WITH OTHER TRADES. CONTRACTOR SHALL COORDINATE ALL FIRE ALARM DEVICE LOCATIONS WITH THE ARCHITECTURAL PLANS.
- A LICENSED FIRE ALARM CONTRACTOR SHALL APPLY FOR PERMIT AND PROVIDE ANY ASSOCIATED CALCULATIONS OR PLANS REQUIRED BY THE LOCAL AHJ.
- ADJUST AND/OR ADD FIRE ALARM DEVICES AS NECESSARY TO PROVIDE REQUIRED AUDIO/VISUAL COVERAGE THROUGHOUT ALL AREAS IN SCOPE.
- COORDINATE WITH FIRE ALARM VENDOR FOR SYSTEM OPERATING INSTRUCTIONS AND WIRING DIAGRAMS.
- ALL NOTIFICATION APPLIANCES CIRCUITS (NAC), SIGNALING LINE CIRCUITS (SLC), AND INDICATING DEVICE CIRCUITS (IDC) SHALL PERFORM TO CLASS "B"
- PROVIDE TRANSIENT VOLT SURGE SUPPRESSION DEVICE WHERE CIRCUITS PENETRATE THE BUILDING ENVELOPE AND FIRE ALARM EQUIPMENT SUPPLIED FROM THE BUILDING ELECTRICAL SYSTEM IN ACCORDANCE WITH NFPA 70 AND NFPA 72 REQUIREMENTS.
- ALL FIRE ALARM PANELS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NFPA 70 ARTICLE 250 AND 800 WITH A MAXIMUM OF 25 OHMS RESISTANCE.
- FIRE ALARM MANUAL PULL STATIONS AT DOOR OPENINGS SHALL BE WITHIN 5' - 0" HORIZONTALLY OF THE DOOR OPENING.
- FIRE ALARM SYSTEM SHALL REPORT TO CAMERON PARISH FIRE DEPARTMENT.

## LEGEND

- FACU FIRE ALARM CONTROL UNIT  
FAA FIRE ALARM ANNUNCIATOR  
FAC FIRE ALARM COMMUNICATOR  
F MANUAL FIRE ALARM PULL STATION  
15 WP FIRE ALARM COMBINATION HORN AND CLEAR VISUAL STROBE. WALL MOUNT. NUMBER "15" INDICATES CANDELA LEVEL. WP = WEATHERPROOF  
WP 15 FIRE ALARM COMBINATION CLEAR VISUAL STROBE. WALL MOUNT. NUMBER "15" INDICATES CANDELA LEVEL. WP = WEATHERPROOF  
S SMOKE DETECTOR  
S = 520 Hz AUDIO SIGNAL  
WF FLOW DETECTOR/SWITCH  
VS VALVE SUPERVISORY SWITCH

0 4' 8' 12'  
SCALE: 3/16" = 1'-0"



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

## EOR/AOR SEAL

This document originally issued and sealed by:  
Brandon T. Hoffstad, PE  
LA 004639

on 02/12/2025  
Pond & Company  
EF 0002346  
Using a Digital Signature and date. Printed copies of this document are not considered a certified document and signature must be verified on any electronic copies.

## CONSULTANT

## CLIENT INFORMATION



US Fish & Wildlife Service

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: J. CAHILL  
DRAWN BY: Z. MITCHELL  
CHECKED BY: N. SHEWELT  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

## SHEET TITLE

FIRE ALARM  
FLOOR PLAN

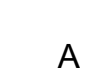
## SHEET NUMBER

FA101

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION





NS NON-SPRINKLERED SPACE

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



2/10/2025 11:22:00 AM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_MEFP\_V21.rvt

NOTES:

- EXISTING EQUIPMENT IS SHOWN WITH THIN LINEWORK.
- DEMOLISHED EQUIPMENT IS SHOWN WITH BOLD LINEWORK, DASHED, AND HATCHED.
- NEW OR RELOCATED EQUIPMENT IS SHOWN WITH BOLD LINEWORK.
- BELOW IS AN EXAMPLE OF EACH:

- EXISTING EQUIPMENT OR EQUIPMENT BY OTHERS
- EQUIPMENT TO BE DEMOLISHED
- NEW OR RELOCATED EQUIPMENT

PLUMBING GENERAL NOTES:

- PLUMBING WORK MUST BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, INTERNATIONAL PLUMBING CODE, AND INTERNATIONAL FUEL GAS CODE.
- SLOPES AND INVERT ELEVATIONS MUST BE ESTABLISHED BEFORE ANY PIPE IS INSTALLED IN ORDER TO MAINTAIN PROPER SLOPES. ANY DISCREPANCIES MUST BE REPORTED TO CONTRACTING OFFICER'S REPRESENTATIVE. ALL PIPING MUST BE LOCATED AND DETERMINED WHEN TO BE INSTALLED TO AVOID CONFLICT WITH OTHER TRADES.
- PIPING MUST BE CONCEALED UNLESS OTHERWISE NOTED.
- KEEP ALL BURIED PIPING CLEAR OF FOOTINGS. COORDINATE WITH STRUCTURAL.
- ALL WALL CLEANOUTS MUST BE PROVIDED WITH WALL COVERS AND MOUNTED IN UNOBTUSIVE LOCATIONS WHILE MAINTAINING ACCESSIBILITY. SET ALL FLOOR CLEANOUTS FLUSH WITH FLOOR AREAS OR FINISHED GRADE. COORDINATE FINAL WALL AND FLOOR CLEANOUT LOCATIONS WITH ARCHITECTURAL PLANS TO AVOID BEING COVERED BY FURNITURE OR OTHER APPURTENANCES.
- COORDINATE LOCATION OF PIPING AND DRAINS WITH ALL MECHANICAL AND ELECTRICAL EQUIPMENT. PIPING MUST NOT BE INSTALLED ABOVE ELECTRICAL, COMMUNICATIONS, OR DATA EQUIPMENT OR PANELS. COMPLY WITH ARCHITECTURAL PLANS FOR EXACT LOCATION OF PLUMBING FIXTURES, COMPLIANCE TO ADA CLEARANCES, AND FINISHES.
- PROVIDE REQUIRED WATER, WASTE, AND VENT PIPING, FITTINGS, AND INSULATION, AND MAKE FINAL CONNECTIONS TO EQUIPMENT. PLANS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. PLANS DO NOT SHOW ALL REQUIRED BENDS, OFFSETS, VALVES, AND MISCELLANEOUS FITTINGS FOR A COMPLETE INSTALLATION. ALL PIPING, EQUIPMENT, AND CONNECTIONS MUST BE INSTALLED IN ACCORDANCE WITH SPECIFICATIONS, LOCAL CODES AND ORDINANCES, AND MANUFACTURER'S INSTRUCTIONS, WHICHEVER IS MORE STRINGENT.
- WASTE PIPING MUST BE INSTALLED TO PROVIDE A MINIMUM SLOPE OF 1% (1/8" PER LINEAR FOOT). WASTE PIPING SMALLER THAN 3" MUST BE INSTALLED TO PROVIDE A MINIMUM SLOPE OF 2% (1/4" PER LINEAR FOOT).
- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, FIXTURE LOCATIONS, ROOM NAMES, AND NUMBERS.
- PROVIDE EXTENSION OF EQUIPMENT DRAINS TO FLOOR DRAINS, FLOOR SINKS, AND OPEN SITE DRAINS.
- WHERE POSSIBLE, INSTALL SHUT-OFF VALVES AND EQUIPMENT REQUIRING MAINTENANCE, CLEANING AND ADJUSTMENT ABOVE ACCESSIBLE CEILINGS OR IN SERVICE AREAS SUCH AS JANITOR'S CLOSETS. IN OTHER LOCATIONS, PROVIDE ACCESS PANELS IN INCONSPICUOUS LOCATIONS WITH FINISH TO MATCH ARCHITECTURAL. FIELD VERIFY FINAL LOCATIONS OF ACCESS PANELS WITH OTHER TRADES PRIOR TO INSTALLATION.
- ALL HOSE BIBBS, WALL HYDRANTS, AND VALVES WITH THREADED HOSE CONNECTIONS MUST BE EQUIPPED WITH VACUUM BREAKER.
- WHERE CONNECTING TO A UTILITY OR SERVICE, VERIFY LOCATION, SIZES, MATERIALS, FLUID BEING HANDLED, AND INVERT ELEVATIONS OF ALL EXISTING UTILITIES AND CONFIRM THAT NEW PIPES BEING ROUTED TO EXISTING UTILITIES CAN BE INSTALLED CONFORMING TO CODE AND AS SHOWN. NOTIFY CONTRACTING OFFICER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO PURCHASING ANY MATERIALS OR PERFORMING ANY WORK OR EXTENSION OF CONNECTION, WITH THE EXCEPTION OF EXCAVATION OR OTHER WORK TO PROVIDE ACCESS TO THE CONCEALED UTILITY.
- PROVIDE INSULATION, PIPE IDENTIFICATION, AND OTHER REQUIREMENTS AS LISTED IN SPECIFICATIONS.
- ALL PIPING ABOVE GRADE MUST BE SUPPORTED FROM THE BUILDING STRUCTURE AND MUST NOT REST ON CEILING TILES OR BE SUPPORTED FROM CEILING TILES.
- WATER PIPING ROUTED ABOVE CEILINGS AND IN EXTERIOR WALLS MUST BE ROUTED ON HEATED SIDE (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION.
- SET TOPS OF ALL FLOOR DRAINS AND CLEANOUTS FLUSH WITH FINISHED FLOOR, UNLESS NOTED OTHERWISE.
- LOCATE ALL SECTIONAL OR MAIN CONTROL VALVES WITHIN 1'-0" FROM ACCESS PANELS, CEILING TILES, OR OTHER POINT OF ACCESS.
- PROVIDE WATER HAMMER ARRESTORS SIZED PER PLUMBING DRAINAGE INSTITUTE SPECIFICATIONS ON ALL DOMESTIC WATER LINES SERVING FLUSH VALVE FIXTURES, WASHING MACHINES SUPPLIES, PRV STATIONS, AND OTHER INSTALLATIONS WITH QUICK CLOSING VALVES.
- COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND THE ELECTRICAL CONTRACTOR, AND FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
- ALL PLUMBING EQUIPMENT AND SYSTEMS MUST BE GUARANTEED FOR A MINIMUM PERIOD OF ONE YEAR AFTER CONTRACTING OFFICER'S REPRESENTATIVE'S FINAL ACCEPTANCE.
- ALL PIPE PENETRATIONS OF FIRE AND/OR SMOKE-RATED ASSEMBLIES MUST BE FIRE-STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS MUST BE AS MANUFACTURED BY 3M COMPANY, CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/STRIP, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MANUFACTURER FOR PARTICULAR APPLICATION, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.
- LOCATE ALL WATER CLOSET FLUSH VALVE LEVERS ON THE APPROACH SIDE OF THE WATER CLOSET.
- ALL GAS REGULATORS REQUIRING VENTS MUST BE VENTED TO THE EXTERIOR PER THE INTERNATIONAL GAS CODE REQUIREMENTS. VENT TERMINALS MUST BE A MINIMUM OF 10'-0" FROM ANY AIR INTAKE OR SOURCE OF IGNITION.
- ALL VENTS THROUGH ROOF MUST BE LOCATED A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE.
- ALL COLD WATER, HOT WATER, AND DRAIN PIPING AT HANDICAPPED FIXTURES MUST BE INSULATED WITH HANDI-LAV GUARD MODELS 102 AND 105 (OR APPROVED EQUAL) INSULATION KITS.
- NOT ALL PLUMBING ABBREVIATIONS SHOWN WILL BE USED FOR THIS PROJECT.

PLUMBING ABBREVIATIONS:

AAV	AIR ADMITTANCE VALVE
AC	AIR COMPRESSOR
A/C	ABOVE CEILING
AD	AIR DRYER
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ARCH	ARCHITECTURE, ARCHITECTURAL
BFP	BACKFLOW PREVENTER
B/F	BELOW FLOOR
B/G	BELOW GRADE
BLDG	BUILDING
BV	BALL VALVE
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CONT.	CONTINUATION
CO	CLEANOUT
CV	CHECK VALVE
CONTR	CONTRACTOR
CW	COLD WATER (POTABLE / DOMESTIC)
DEG.	DEGREES
DF	DRINKING FOUNTAIN
DHWR	DOMESTIC HOT WATER RETURN
DN	DOWN
DSN	DOWNSPOUT NOZZLE
DWGS	DRAWINGS
(E), EXST.	EXISTING
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
EMEW	EMERGENCY EYEWASH
EMSH	EMERGENCY SHOWER
ESEW	EMERGENCY SHOWER / EYEWASH
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
GC	GENERAL CONTRACTOR
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE
GW	GAS WATER HEATER
HB	HOSE BIBB
H/C	HANDICAP
HW	HOT WATER (POTABLE / DOMESTIC)
I.E.	INVERT ELEVATION
IBC	INTERNATIONAL BUILDING CODE
IFGC	INTERNATIONAL FUEL GAS CODE
IMB	ICE MAKER BOX
IPC	INTERNATIONAL PLUMBING CODE
IW	INDIRECT WASTE
KW	KILOWATT
L	LAUNDRY
LP	LIQUID PETROLEUM
LV	LAVATORY
MFG	MANUFACTURER
MS	MOP SINK
NFRH	NON-FREEZE ROOF HYDRANT
NFWH	NON-FREEZE WALL HYDRANT
NG	NATURAL GAS
NIC	NOT IN CONTRACT
ORD	OVERFLOW ROOF DRAIN
OST	OVERFLOW STORM DRAINAGE
P, PLBG	PLUMBING
PDI	PLUMBING DRAINAGE INSTITUTE
PRV	PRESSURE REDUCING / REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
RL	RAIN LEADER
RPZ	REDUCED PRESSURE ZONE
SAN, S	SANITARY PIPING
SANS	SANITARY SEWER
SH	SHOWER
SK	SINK
SOV	SHUT-OFF VALVE
ST	STORM DRAINAGE
STR	STRAINER
SS	STAINLESS STEEL
TD	TRENCH DRAIN
TMV	THERMOSTATIC MIXING VALVE
T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
TP	TRAP PRIMER
TYP	TYPICAL
UR	URINAL
U/G	UNDERGROUND
U/SAN	UNDERGROUND SANITARY
V	VENT PIPING
VTR	VENT THROUGH ROOF
W	WASTE PIPING
WB	CLOTHES WASHER OUTLET BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR
W/O	WITHOUT
W/	WITH
YCO	YARD CLEANOUT

PLUMBING LEGEND:

	DIRECTION OF FLOW
	PIPE TURNED DOWN
	PIPE TURNED UP
	RISE OR DROP
	BRANCH BOTTOM CONNECTION
	BRANCH TOP CONNECTION
	TEE OUTLET UP
	TEE OUTLET DOWN
	CAP ON END OF PIPE
	CONTINUATION OF PIPE
	PIPING BELOW FLOOR OR GRADE, SINGLE LINE
	PIPING BELOW FLOOR OR GRADE, DOUBLE LINE
	SANITARY WASTE PIPING - ABOVE FLOOR OR GRADE, SINGLE LINE
	SANITARY WASTE PIPING - ABOVE FLOOR OR GRADE, DOUBLE LINE
	VENT PIPING, SINGLE LINE
	VENT PIPING, DOUBLE LINE
	POTABLE / DOMESTIC COLD WATER PIPING, SINGLE LINE
	POTABLE / DOMESTIC COLD WATER PIPING, DOUBLE LINE
	POTABLE / DOMESTIC HOT WATER SUPPLY PIPING, SINGLE LINE
	POTABLE / DOMESTIC HOT WATER SUPPLY PIPING, DOUBLE LINE
	POTABLE / DOMESTIC HOT WATER RETURN PIPING, SINGLE LINE
	POTABLE / DOMESTIC HOT WATER RETURN PIPING, DOUBLE LINE
	THERMOMETER
	TEMPERATURE & PRESSURE RELIEF VALVE
	FLOW MEASURING / BALANCING / SHUT-OFF VALVE
	BALL VALVE
	CHECK VALVE
	GATE VALVE
	STRAINER
	UNION
	HOSE BIBB
	FLOOR DRAIN
	TRAP PRIMER
	FLOOR CLEANOUT
	WALL CLEANOUT
	WATER HAMMER ARRESTOR
	SANITARY RISER DIAGRAM RISER DIAGRAM NUMBER
	DOMESTIC WATER RISER DIAGRAM RISER DIAGRAM NUMBER
	DEMOLISHED EQUIPMENT, FIXTURES, APPURTENANCES
	DEMOLISHED PIPING
	CONNECT TO EXISTING
	DISCONNECT FROM EXISTING



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: S. THOMAS  
DRAWN BY: S. THOMAS  
CHECKED BY: J. LEDYARD  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

SHEET TITLE

PLUMBING  
GENERAL NOTES,  
ABBREVIATIONS,  
AND LEGENDS

SHEET NUMBER

P-001

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



1

2

3

4

5

## SHEET NOTES

1. REFER TO P-001 FOR PLUMBING GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.

## # KEYNOTES

- 1 DROP 4" SANITARY SEWER BELOW GRADE.
- 2 SANITARY SEWER PIPING UPSTREAM OF THIS LOCATION SHALL BE ROUTED BELOW SLAB, ABOVE GRADE. SUPPORT PIPING FROM SLAB.

**POND**3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond &amp; Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond &amp; Company.

EOR/AOR SEAL

CONSULTANT

## CLIENT INFORMATION



US Fish &amp; Wildlife Service

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
BunkhouseLA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: S. THOMAS  
DRAWN BY: S. THOMAS  
CHECKED BY: J. LEDYARD  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

## SHEET TITLE

PLUMBING WASTE  
AND VENT PLAN  
LEVEL 1

## SHEET NUMBER

PW101

ORIGINAL SHEET SIZE:  
24" X 36"

## A1 PLUMBING WASTE AND VENT PLAN LEVEL 1

SCALE: 3/16" = 1'-0"

0 4' 8' 12'  
SCALE: 3/16" = 1'-0"

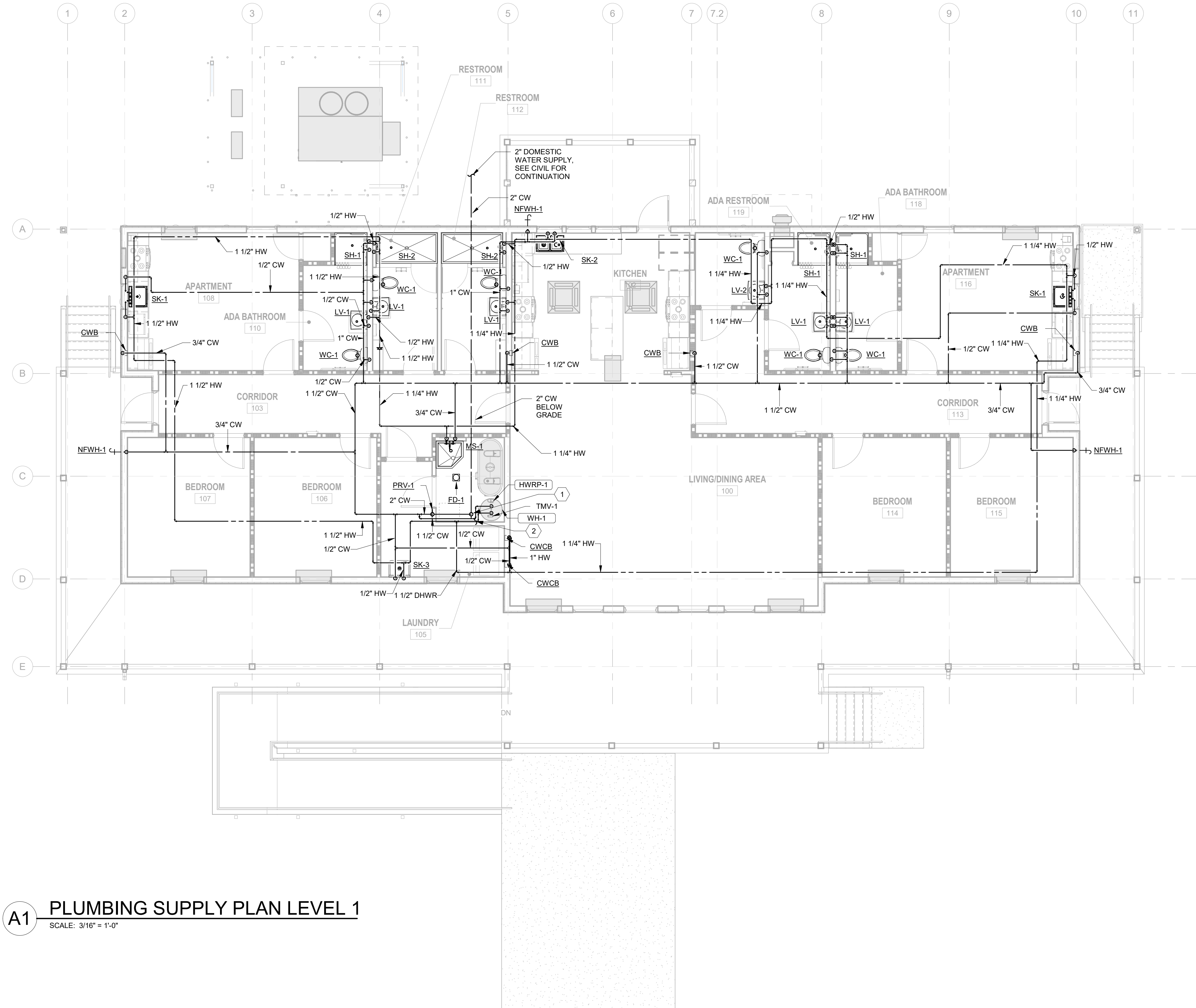
100% ISSUED FOR CONSTRUCTION



2/10/2025 11:22:03 AM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_MEPP\_V21.rvt

# A1 PLUMBING SUPPLY PLAN LEVEL 1

SCALE: 3/16" = 1'-0"

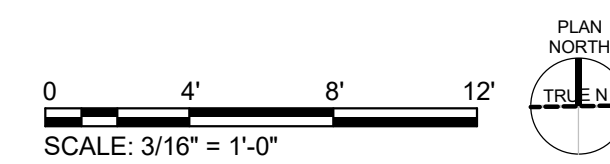


## SHEET NOTES

- REFER TO P-001 FOR PLUMBING GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.

## # KEYNOTES

- 2" CW UP FROM BELOW GRADE TO 105 LAUNDRY. PROVIDE HEAT TRACING PER SPECIFICATION SECTION 220533 ON ALL PIPING EXPOSED TO WEATHER.
- CONNECT PIPING TO WATER HEATER PER DETAIL C1/P-501.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

## CLIENT INFORMATION



US Fish & Wildlife Service

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: S. THOMAS  
DRAWN BY: S. THOMAS  
CHECKED BY: J. LEDYARD  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

## SHEET TITLE

PLUMBING  
SUPPLY PLAN  
LEVEL 1

## SHEET NUMBER

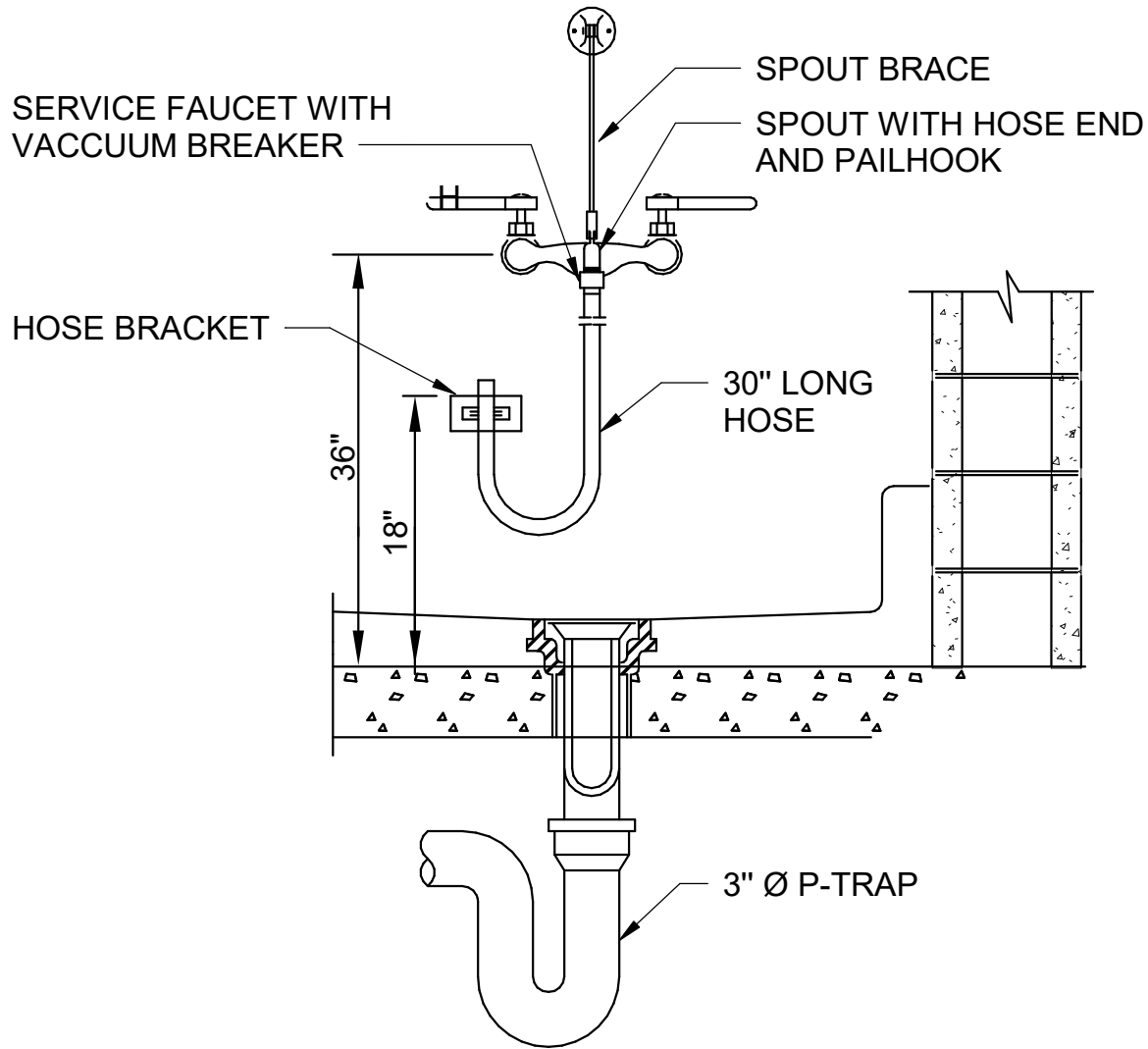
P-101

ORIGINAL SHEET SIZE:  
24" X 36"

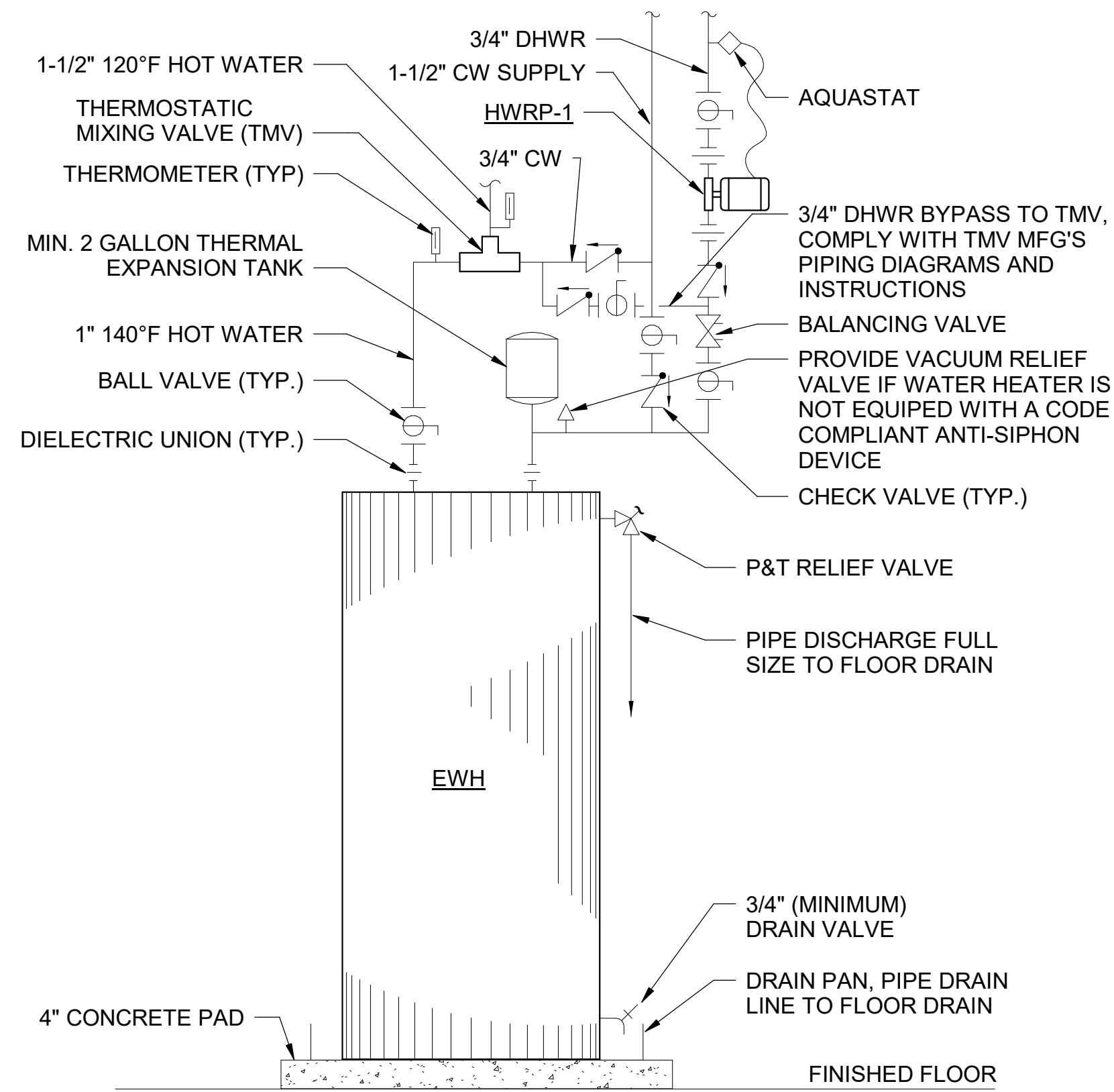
100% ISSUED FOR CONSTRUCTION



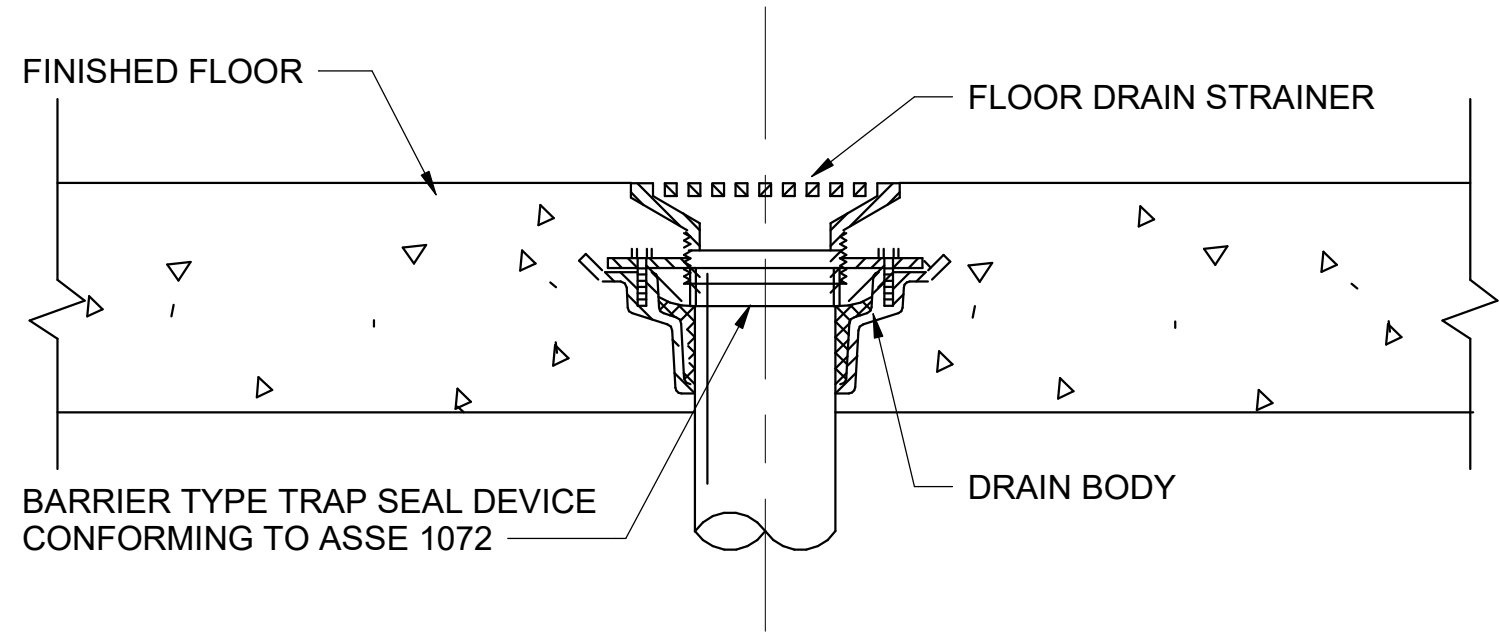
2/10/2025 11:22:03 AM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_MEPP\_V21.rvt



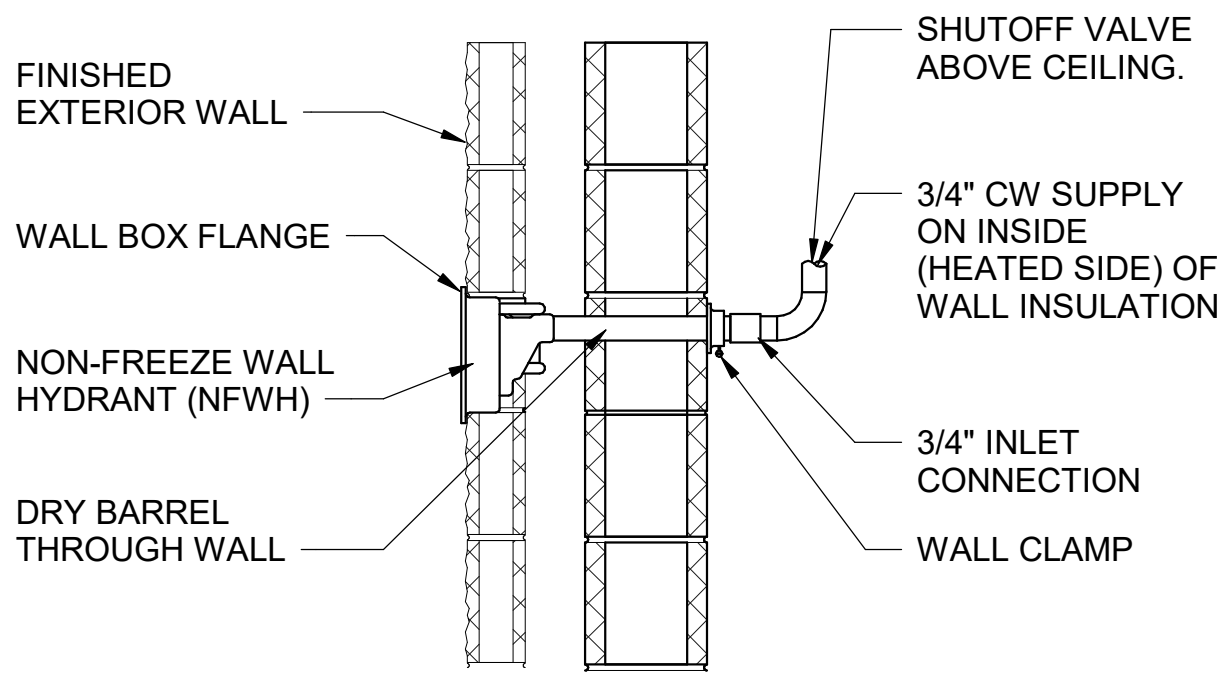
C1 MOP SINK DETAIL  
N.T.S



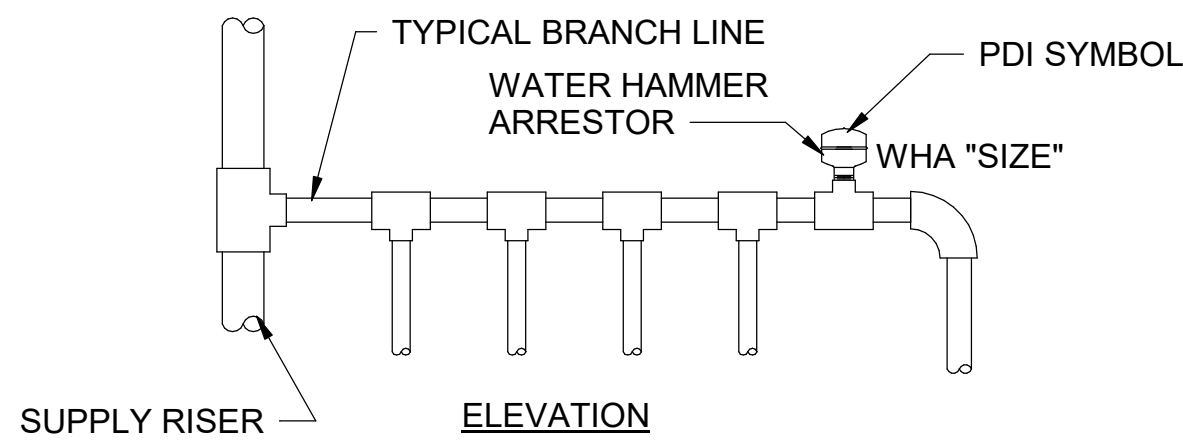
A1 ELECTRIC TANK WATER HEATER DETAIL  
N.T.S



C3 TRAP GUARD DETAIL  
N.T.S



B3 WALL HYDRANT DETAIL  
N.T.S



WATER HAMMER ARRESTOR SCHEDULE						
PDI SYMBOL	A	B	C	D	E	F
FIXTURE UNIT RATING	1-11	12-32	33-60	61-113	114-154	155-330

- NOTES:
1. INSTALL WATER HAMMER ARRESTORS AT THE END OF BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED.
  2. ONE WATER HAMMER ARRESTOR PER 20' LINE, AND ANOTHER FOR BRANCHES OVER 20' IN LENGTH.
  3. THE SUM OF FIXTURE UNIT RATING OF UNITS OVER 20' IN LENGTH MUST BE EQUAL TO OR GREATER THAN THE DEMAND OF THE BRANCHES.

A3 WATER HAMMER ARRESTOR DETAIL  
N.T.S



Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

DESIGNED BY: S. THOMAS  
DRAWN BY: S. THOMAS  
CHECKED BY: J. LEDYARD  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

PLUMBING  
DETAILS

P-501



<



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



U.S. Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: S. THOMAS  
DRAWN BY: S. THOMAS  
CHECKED BY: J. LEDYARD  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

SHEET TITLE

PLUMBING  
SCHEDULES

SHEET NUMBER

P-601

ORIGINAL SHEET SIZE:  
24" X 36"



## SHEET NOTES

1. REFER TO P-001 FOR PLUMBING GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

## CLIENT INFORMATION



US Fish & Wildlife Service

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: S. THOMAS  
DRAWN BY: S. THOMAS  
CHECKED BY: J. LEDYARD  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

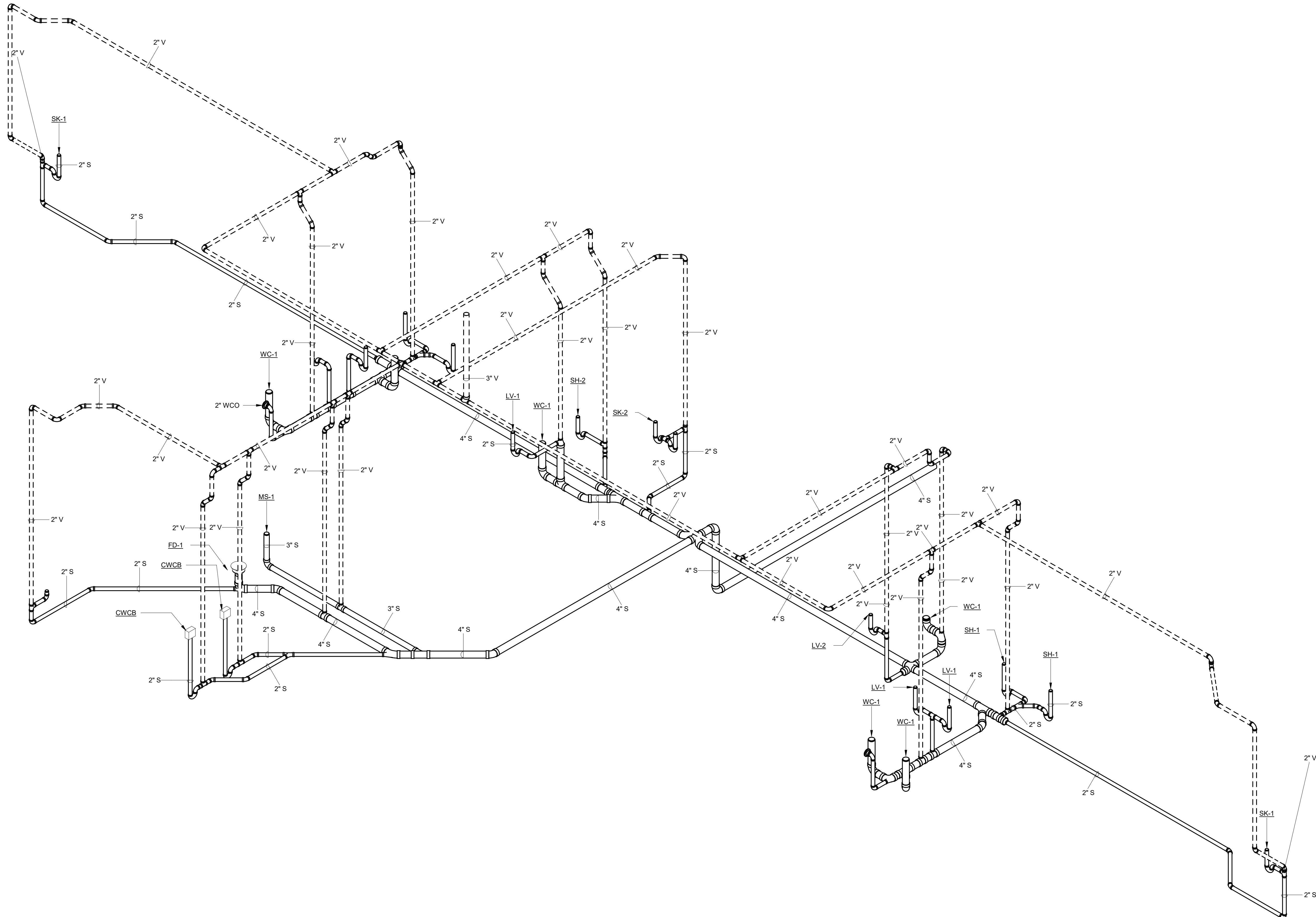
## SHEET TITLE

WASTE AND VENT  
RISER DIAGRAM

## SHEET NUMBER

P-901

ORIGINAL SHEET SIZE:  
24" X 36"



A1

## WASTE AND VENT RISER DIAGRAM

N.T.S

100% ISSUED FOR CONSTRUCTION







2/10/2025 11:09:50 AM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_MEPP\_v21.rvt

D

C

B

A

NOTES:

- 1. EXISTING EQUIPMENT IS SHOWN WITH THIN LINEWORK.
- 2. DEMOLISHED EQUIPMENT IS SHOWN WITH BOLD LINEWORK, DASHED, AND HATCHED.
- 3. NEW OR RELOCATED EQUIPMENT IS SHOWN WITH BOLD LINEWORK.
- 4. BELOW IS AN EXAMPLE OF EACH:

- EXISTING EQUIPMENT OR EQUIPMENT BY OTHERS
- EQUIPMENT TO BE DEMOLISHED
- NEW OR RELOCATED EQUIPMENT

CODE REFERENCES					
CODE REFERENCE				EDITION	
INTERNATIONAL BUILDING CODE				2021	
INTERNATIONAL ENERGY CONSERVATION CODE				2009	
INTERNATIONAL FIRE CODE				2021	
INTERNATIONAL FUEL GAS CODE				2021	
INTERNATIONAL MECHANICAL CODE				2021	
INTERNATIONAL PLUMBING CODE				2021	
HVAC DESIGN CRITERIA					
CATEGORY			DATA VALUE		
CLIMATIC DESIGN LOCATION:			LAKE CHARLES NWS, LA		
LATITUDE:			30.1 N		
LONGITUDE:			93.2 W		
ELEVATION:			19 FT.		
STANDARD DESIGN CONDITIONS					
WINTER DESIGN DRY BULB (99.0%):			33.7 °F		
SUMMER DESIGN DRY BULB (1.0%):			93.2 °F		
SUMMER DESIGN WET BULB (1.0%):			77.8 °F		
DEHUMIDIFICATION DESIGN CONDITIONS					
DEWPOINT (1.0%):			78.6 °F		
HUMIDITY RATIO (1.0%):			148.6		
MEAN COINCIDENT DRY BULB (1.0%):			83.6 °F		
INDOOR DESIGN CONDITIONS					
SPACE CATEGORY	COOLING			HEATING	
	OCC. DRY BULB (°F)	UNOCC. DRY BULB (°F)	OCC. DP (°F)	OCC. DRY BULB (°F)	UNOCC. DRY BULB (°F)
ADMINISTRATION SPACES	78	85	57.9	68	55
COMM ROOMS	75	75	62.5	40	40
ENTRANCE VESTIBULES	N / A	N / A	N / A	55	40
MECHANICAL ROOMS	AMB. + [10°F]	AMB. + [10°F]	N / A	55	55
STORAGE	78	85	57.9	68	55

MECHANICAL GENERAL NOTES:

- 1. INSTALLATION OF HVAC WORK MUST BE COORDINATED WITH OTHER TRADES BEFORE ANY INSTALLATION IS MADE. PLANS ARE DIAGRAMMATIC IN NATURE. PROVIDE ALL TRANSITIONS, ELBOWS, ETC. REQUIRED TO AVOID CONFLICTS WITH OTHER TRADES AND BUILDING ELEMENTS. EQUIPMENT, PIPING, OR DUCTWORK INTERFERING WITH OTHER TRADES MUST BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. DO NOT SCALE THE DRAWINGS.
- 2. THE MECHANICAL EQUIPMENT AND INSTALLATION MUST CONFORM TO THE CODE REFERENCES TABLE SHOWN HEREIN.
- 3. AT THE START OF CONSTRUCTION, PREPARE TYPED LISTS OF EQUIPMENT THAT ARE SUPPLIED REQUIRING ELECTRICAL WORK, AND SEND LISTS TO THE ELECTRICAL CONTRACTOR FOR REVIEW AND COORDINATION.
- 4. WRITTEN DIMENSIONS ON DRAWINGS HAVE PRECEDENCE OVER SCALED DIMENSIONS.
- 5. "PROVIDE" IS AN INCLUSIVE TERM USED TO DESCRIBE ASPECTS OF THE WORK THAT MUST BE ACCOMPLISHED AND IS HEREBY DEFINED TO REQUIRE TO STORE, FURNISH, INSTALL, MOUNT, CONNECT, CONTROL AND POWER EQUIPMENT INDICATED, AS WELL AS ALL APPURTENANCES REQUIRED TO MAKE SYSTEMS OPERATE AS INDICATED WITHIN THESE DRAWINGS AND SPECIFICATIONS AND TO FULFILL THE SCOPE OF WORK.
- 6. COORDINATE MECHANICAL AND ELECTRICAL WORK SUCH THAT MECHANICAL PIPING, DUCTWORK AND EQUIPMENT IS NOT LOCATED OVER OR ABOVE ANY ELECTRICAL, COMMUNICATIONS, OR DATA EQUIPMENT.
- 7. ALL EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S APPROVED PUBLISHED LITERATURE (INCLUDING SERVICE CLEARANCE), AND INTERNATIONAL BUILDING CODE / INTERNATIONAL MECHANICAL CODE, WHICHEVER IS MORE STRINGENT.
- 8. INSTALLATION OF EQUIPMENT MUST PERMIT ACCESSIBILITY FOR SERVICE AND/OR REPLACEMENT WITHOUT NECESSITATING REMOVAL OR MODIFICATION TO OTHER PIPING, WIRING, OR EQUIPMENT.
- 9. CEILING-MOUNTED EQUIPMENT MUST BE INSTALLED IN SUCH A MANNER THAT LIGHTS, PIPING, DUCTWORK, ETC., DO NOT BLOCK ACCESS TO EQUIPMENT AND RELATED ACCESSORIES.
- 10. COORDINATE WALL, FLOOR, AND ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR.
- 11. CAULK WITH SILICONE ALL UNUSED PENETRATION GAPS BETWEEN WALL, CEILING AND FLOOR OPENINGS, AND HVAC EQUIPMENT PENETRATIONS AS SHOWN ON MECHANICAL DETAILS. PATCH LARGE GAPS BEFORE CAULKING IS APPLIED.
- 12. SUPPLEMENTAL STEEL MEMBERS REQUIRED TO SUPPORT HVAC EQUIPMENT FROM MAIN STRUCTURE MUST BE PROVIDED BY THE HVAC CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR CONSTRUCTION TYPES. PROCURE AND INSTALL UPON APPROVAL FROM CONTRACTING OFFICER. PROVIDE STRUCTURAL STEEL SUPPORT SUBMITTAL TO ENGINEER OF RECORD FOR REVIEW.
- 13. DUCTWORK AIR DISTRIBUTION SYSTEMS MUST BE INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS AND THE PRESSURE CLASSIFICATION OF EACH INDIVIDUAL DUCTWORK SYSTEM.
- 14. VOLUME DAMPERS MUST BE PROVIDED AT EACH NEW MAIN BRANCH TAKE-OFF AND IN SUCH OTHER LOCATIONS WHERE REQUIRED TO PROPERLY BALANCE THE SYSTEM. ALL REQUIRED VOLUME DAMPERS MAY NOT BE SHOWN ON THE PLANS, BUT MUST BE PROVIDED AT NO ADDITIONAL COST TO THE PROJECT.
- 15. INSTRUMENT TEST HOLES MUST BE PROVIDED IN AIR DISTRIBUTION SYSTEMS WHEREVER VOLUME DAMPERS ARE INSTALLED. HOLES MUST BE SEAL WITH RUBBER OR PLASTIC TEST HOLE PLUGS.
- 16. DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
- 17. SQUARE ELBOWS SHALL ONLY BE USED WHERE SPACE LIMITATIONS PREVENT USE OF 1.5 RADIUS ELBOW AND ONLY UPON APPROVAL OF CONTRACTING OFFICER. PROVIDE TURNING VANES IN ALL SQUARE ELBOWS 45 DEGREES OR GREATER. TURNING VANES MUST BE SINGLE THICKNESS TYPE WITHOUT TRAILING EDGE. TURNING VANES LONGER THAN 36 INCHES MUST BE DOUBLE THICKNESS TYPE.
- 18. DUCTWORK RUNOUTS TO AIR DISTRIBUTION DEVICES MUST BE THE SAME DIAMETER AS THE AIR DISTRIBUTION DEVICE INLET CONNECTION UNLESS OTHERWISE NOTED ON THE DRAWINGS. DIMENSIONS SHOWN FOR DIFFUSERS AND GRILLES ARE NECK DIMENSIONS.
- 19. FLEXIBLE DUCTWORK RUNOUTS FROM BRANCH DUCTS TO AIR DISTRIBUTION DEVICES MUST NOT EXCEED 5 FEET IN LENGTH. BENDS IN FLEXIBLE DUCTWORK MUST NOT EXCEED A MAXIMUM OF 45 DEGREE CHANGE OF DIRECTION AND BE SUPPORTED SUCH THAT THE BEND RADIUS IS NOT RESTRICTIVE TO AIR FLOW THROUGH THE DUCT. FLEXIBLE DUCTWORK MUST NOT BE CRUSHED OR DISTORTED IN ITS FINAL CONFIGURATION.
- 20. ROUND DUCTWORK CONNECTIONS BETWEEN MAIN DUCT AND TERMINAL UNITS MUST BE RIGID DUCT OF THE SAME DIAMETER AS TERMINAL UNIT INLET CONNECTION UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 21. PROVIDE SHEETMETAL TRANSITIONS AT AIR HANDLING UNITS, HEAT PUMP UNITS, FANS, AND OTHER SIMILAR HVAC EQUIPMENT. TRANSITION TO FULL SIZE OF CONNECTION ON UNIT. FLEXIBLE DUCT CONNECTORS MUST BE USED ON FINAL CONNECTION TO AIR HANDLING EQUIPMENT, UNLESS NOTED OTHERWISE.
- 22. OPEN-ENDED AIR TRANSFER DUCTS AND OPEN-ENDED RETURN AIR DUCTS IN THE CEILING PLENUM MUST BE UNOBSTRUCTED FOR A MINIMUM DISTANCE OF 24 INCHES FROM THE OPENING TO ALLOW FOR FREE AIRFLOW. OPEN-ENDED AIR TRANSFER DUCTS AND OPEN-ENDED RETURN AIR DUCTS IN THE CEILING PLENUM MUST HAVE A 90 DEGREE ELBOW FOR SOUND ATTENUATION AND MUST HAVE WIRE MESH SCREEN COVERS. WIRE MESH SCREENS MUST BE ALUMINUM WITH 1/2" SQUARE HOLES. SIZE FOR MAXIMUM VELOCITY OF 400 FPM.
- 23. LOUVERED SUPPLY AIR DIFFUSERS MUST BE 4-WAY FLOW UNLESS OTHERWISE SHOWN BY FLOW ARROWS ON THE DRAWINGS. LINEAR DIFFUSERS MUST BE ADJUSTABLE 2-WAY FLOW. PROVIDE BATT INSULATION ON DIFFUSER AND GRILLES THAT ARE EXPOSED TO CEILING PLENUM.
- 24. EXACT LOCATION OF CEILING AIR DEVICES MUST BE DETERMINED BY ARCHITECTURAL REFLECTED CEILING PLAN.
- 25. EXACT LOCATIONS OF THERMOSTATS, SENSORS, AND HVAC CONTROL APPURTENANCES MUST BE COORDINATED WITH FINAL LOCATIONS OF WALL-MOUNTED ARCHITECTURAL, FIRE PROTECTION, AND ELECTRICAL EQUIPMENT. MOUNT THERMOSTATS AND SENSORS MINIMUM 4'-0" ABOVE FINISHED FLOOR.
- 26. PROVIDE ACCESS PANELS TO ACCESS DAMPERS, EQUIPMENT, AND VALVES LOCATED ABOVE HARD CEILINGS OR IN WALLS. ACTUAL ACCESS PANEL LOCATIONS MUST BE FIELD DETERMINED.

- 27. UNLESS NOTED OTHERWISE, ACCESS MUST BE PROVIDED AT EACH INSTANCE OF THE FOLLOWING: FIRE DAMPERS, DUCT ACCESS DOORS MUST BE LOCATED CLOSE TO EACH COMPONENT LISTED ABOVE TO ALLOW FOR INSPECTION. IF FEASIBLE, LOCATE DUCT ACCESS DOOR ON THE UNDERSIDE OF THE DUCT RATHER THAN THE SIDE. MINIMUM DUCT ACCESS DOOR SIZE MUST BE BASED ON DUCT SIZE AS FOLLOWS:

DUCT SIZE	ACCESS DOOR SIZE
12" AND SMALLER	12" LONG FLANGED & GASKETED REMOVABLE DUCT SECTION
13" TO 17"	12" X 12"
18" TO 24"	16" X 18"
25" AND LARGER	24" X 16"
- 28. AIR HANDLING UNITS SERVING OCCUPIED AREAS MUST HAVE MINIMUM MERV 8 FILTERS. UNITS NOT SERVING OCCUPIED ZONES MUST HAVE MINIMUM MERV 8 FILTER. FILTERS MUST BE INDUSTRY STANDARD SIZE. FILTERS MUST NOT CREATE PRESSURE DROP EXCEEDING 10% OF EXTERNAL STATIC PRESSURE (ESP) CAPACITY LISTED IN EQUIPMENT SCHEDULE.
- 29. SUPPLY, RETURN, AND OUTDOOR AIR DUCTWORK MUST BE INSULATED TO MEET OR EXCEED ASHRAE 90.1 2013. EXTERIOR SUPPLY AND RETURN AIR DUCTWORK MUST BE PROVIDED WITH WEATHER-PROOF COVER.
- 30. PIPING INSULATION MUST BE PROVIDED ON ALL PIPING SYSTEMS INCLUDING (BUT NOT LIMITED TO) CHILLED WATER, HEATING HOT WATER, CONDENSER WATER, REFRIGERANT, AND CONDENSATE DRAIN IN ACCORDANCE WITH ASHRAE 90.1-2013
- 31. SIZE REFRIGERANT LINES PER MANUFACTURER'S INSTRUCTIONS BASED ON ACTUAL LINE LENGTHS AND EQUIPMENT ELEVATIONS INSTALLED. USE OF HCFC AND CFC REFRIGERANTS IS PROHIBITED. INSULATION ON REFRIGERANT LINES EXPOSED TO WEATHER MUST HAVE ALUMINUM JACKETING.
- 32. PIPING CONTAINING WATER THAT IS EXPOSED TO FREEZING TEMPERATURES MUST BE INSULATED AND HEAT-TRACED.
- 33. COORDINATE LOCATIONS OF CONDENSATE DRAIN PIPING. PROVIDE CONDENSATE PUMPS WHERE SUFFICIENT SLOPE IS NOT AVAILABLE FOR STANDARD GRAVITY DRAIN. PROVIDE WITH OVERFLOW SWITCH TO POWER DOWN THE ASSOCIATED AIR HANDLING EQUIPMENT IN CASE OF CONDENSATE PUMP FAILURE. CONDENSATE DRAIN LINE MUST SLOPE DOWN TOWARDS DISCHARGE LOCATION AT A MINIMUM OF 1/8" PER LINEAR FOOT. INSULATE INDOOR CONDENSATE PIPING WITH 3/4" CLOSED CELL FOAM INSULATION.
- 34. PROVIDE SHUT-OFF VALVES AND FLEXIBLE CONNECTIONS AT PIPE CONNECTIONS TO HVAC EQUIPMENT.
- 35. PROVIDE SUPPORTS FOR PIPING AND DUCTWORK IN ACCORDANCE WITH SPECIFICATIONS.
- 36. PROVIDE EXPANSION LOOPS OR APPROVED FLEXIBLE PIPE EXPANSION DEVICES FOR PIPING SYSTEMS WITH OPERATING TEMPERATURES ABOVE 70°F OR BELOW 50°F. PIPE SUPPORTS FOR PIPING SYSTEMS WITH EXPANSION DEVICES OR EXPANSION LOOPS MUST HAVE ROLLER SUPPORTS.
- 37. PROVIDE AUTOMATIC AIR VENTS AT HIGH POINTS OF HYDRONIC PIPING SYSTEMS. PROVIDE DRAIN VALVES AT THE LOW POINTS IN HYDRONIC PIPING SYSTEMS FOR DRAINAGE. BRANCH VALVES AND DRAINS MUST BE PROVIDED TO ENABLE ISOLATING A PIPE SECTION FOR MAINTENANCE WITHOUT SHUTTING DOWN ENTIRE SYSTEM.
- 38. PROVIDE HOUSEKEEPING PADS FOR MECHANICAL EQUIPMENT. COORDINATE WITH STRUCTURAL.
- 39. CONTROL WIRING (I.E. 120 VOLT AND BELOW) INCLUDING 120 VOLT CONTROL POWER TO MOTOR OPERATED DAMPERS, VALVES, AND VARIABLE VOLUME BOXES MUST BE PROVIDED UNDER THIS DIVISION UNLESS SHOWN ON THE ELECTRICAL DRAWINGS. POWER WIRING (120V) TO CONTROL PANELS MUST BE PROVIDED BY ELECTRICAL. POWER (120V) AND CONTROL (24V) WIRING TO APPLICATION-SPECIFIC CONTROLLERS AND OTHER CONTROL SYSTEM COMPONENTS MUST ORIGINATE AT CONTROL PANELS AND BE PROVIDED UNDER THIS DIVISION.
- 40. INSTALL EXPOSED CONTROL WIRING IN CONDUIT. SEE DIVISION 26 SPECIFICATIONS FOR REQUIREMENTS.
- 41. VARIABLE FREQUENCY DRIVES FOR 3 PHASE MOTORS MUST BE 3 POLE TYPE.
- 42. ALL EQUIPMENT WITH NATURAL GAS COMBUSTION MUST BE VENTED PER THE APPLICABLE CODES.
- 43. MANUFACTURER NAME AND MODEL NUMBERS ARE BASIS OF DESIGN AND ARE SHOWN FOR INFORMATION ONLY. REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
- 44. EQUIPMENT LAYOUT IS BASED ON ONE MANUFACTURER'S PRODUCT. WHERE EQUIPMENT SELECTED BY THE CONTRACTOR FOR USE ON THE JOB DIFFERS FROM LAYOUT, THE CONTRACTOR MUST BE RESPONSIBLE FOR COORDINATING SPACE REQUIREMENTS AND EQUIPMENT CONNECTION ARRANGEMENTS.
- 45. SPECIFICATIONS TAKE PRECEDENCE OVER DRAWINGS. HOWEVER, ITEMS SHOWN ON DRAWING BUT NOT IN THE SPECIFICATIONS ARE REQUIRED WITHIN THE PROJECT SCOPE. IN ADDITION, SPECIFIC ITEMS SHOWN ON THE DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS IN CASES WHERE THE SPECIFICATION HAS OPTIONS.
- 46. FACTORY PAINTED EQUIPMENT THAT HAS BEEN SCRATCHED OR MARRED MUST REPAINTED TO MATCH ORIGINAL COLOR. STEEL EQUIPMENT HANGERS, THREADED RODS, BOLTS, NUTS, SUPPORTS, AND UNINSULATED BLACK STEEL PIPE EXPOSED TO SIGHT INSIDE OR OUTSIDE THE BUILDING WHICH ARE NOT PROVIDED WITH A FACTORY APPLIED PRIME COAT MUST BE CLEANED OF RUST, GREASE, AND SCALE. AFTER CLEANING THE HANGERS, SUPPORTS AND PIPE, A FIELD APPLIED PRIME COAT MUST BE PROVIDED. IN ADDITION, SUCH ITEMS IN FINISHED SPACES MUST ALSO BE PROVIDED WITH TWO COATS OF FINISH PAINT IN A COLOR TO MATCH ADJACENT SURFACES OR AS NOTED; SUCH ITEMS OUTSIDE THE BUILDING MUST ALSO BE PROVIDED WITH TWO COATS OF BITUMINOUS ALUMINUM PAINT. INSULATED PIPES OUTSIDE THE BUILDING MUST BE CLEANED OF RUST, GREASE AND SCALE, AND PROVIDED WITH A FIELD APPLIED PRIME COAT BEFORE INSTALLING INSULATION.
- 47. IF ASBESTOS IS FOUND, STOP WORK IMMEDIATELY AND NOTIFY OWNER AND GENERAL CONTRACTOR AND CONTRACTING OFFICER. COORDINATE WITH CONTRACTING OFFICER'S REPRESENTATIVE FOR ABATEMENT OF ASBESTOS.
- 48. NOT ALL MECHANICAL ABBREVIATIONS SHOWN WILL BE USED FOR THIS PROJECT.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: S. THOMAS  
DRAWN BY: S. THOMAS  
CHECKED BY: J. LEDYARD  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

SHEET TITLE

MECHANICAL  
GENERAL NOTES  
AND DESIGN  
CRITERIA

SHEET NUMBER

M-001

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



2/10/2025 11:09:51 AM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_MEPF\_v21.rvt

## MECHANICAL ABBREVIATIONS:

@	AT	H	HEIGHT
&	AND	HGRH	HOT GAS REHEAT
AFF	ABOVE FINISHED FLOOR	HP	HORSEPOWER, HEAT PUMP
A/C	ABOVE CEILING	HR	HOOR
AC	AIR CONDITIONER	HSPF	HEATING SEASONAL PERFORMANCE FACTOR
ADJ	ADJUSTABLE	HTG	HEATING
AFMS	AIRFLOW MEASURING STATION	HUH	HYDRONIC UNIT HEATER
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
AHRI	AIR CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE	HVLS	HIGH-VOLUME LOW-SPEED
AHU	AIR HANDLING UNIT	HX	HEAT EXCHANGER
AMB	AMBIENT	HZ	HERTZ
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION	IMC	INTERNATIONAL MECHANICAL CODE
ARCH	ARCHITECT, ARCHITECTURAL	IN	INCH, INCHES
AS	AIR SEPARATOR	IN WC	INCHES WATER COLUMN
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS	IN WG	INCHES WATER GAUGE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	IPLV	INTEGRATED PART LOAD VALUE
AUX	AUXILIARY	IRH	INFRARED HEATER
AWS	AMERICAN WELDING SOCIETY	KW	KILOWATTS
AWG	AMERICAN WIRE GAUGE	L	LENGTH, LOUVER (WALL)
		LAT	LEAVING AIR TEMPERATURE
		LBS	POUNDS
		LWT	LEAVING WATER TEMPERATURE
B	BOILER	MAX	MAXIMUM
BD	BACKDRAFT DAMPER	MBH	1000 BRITISH THERMAL UNITS
BLDG	BUILDING	MBH	MINIMUM EFFICIENCY REPORTING VALUE
BOD	BOTTOM OF DUCT	MERV	MECHANICAL
B/F	BELOW FLOOR	MECH	MANUFACTURER, MANUFACTURING
B/S	BELOW SLAB	MFR, MFG	MINIMUM
BT	BUFFER TANK	MOD	MOTOR OPERATED DAMPER
BTU, BTUH	BRITISH THERMAL UNITS, BTUs PER HOUR	MSS	MANUFACTURER'S STANDARDIZATION SOCIETY
		MTD	MOUNTED
		MUW	MAKE-UP WATER (POTABLE/ DOMESTIC)
		MVD	MANUAL VOLUME DAMPER
		NC	NOISE CRITERIA
		N.C.	NORMALLY CLOSED
		NO.	NUMBER
		N.O.	NORMALLY OPEN
		NPLV	NET PART LOAD VALUE
		NTS	NOT TO SCALE
		OA	OUTSIDE AIR
		O.C.	ON CENTER
		OD	OUTSIDE DAMPER
		PD	PRESSURE DROP
		PH	PHASE
		PLBG	PLUMBING
		PPM	PARTS PER MILLION
		PRV	PRESSURE RELIEF VALVE
		PSI(G)	POUNDS-FORCE PER SQUARE INCH (GAUGE)
		QTY	QUANTITY
		RA	RETURN AIR
		RG	RETURN GRILLE
		RH	RELATIVE HUMIDITY, ROOF HOOD
		RHG	REFRIGERANT HOT GAS
		RL	REFRIGERANT LIQUID
		RLA	RELIEF AIR
		RM	ROOM
		RPM	REVOLUTIONS PER MINUTE
		RS	REFRIGERANT SUCTION
		SA	SUPPLY AIR
		SD	SMOKE DAMPER
		SEER	SEASONAL ENERGY EFFICIENCY RATIO
		SF	SUPPLY FAN
		SKD	SMOKE DETECTOR
		SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
		SP	STATIC PRESSURE
		SS	STAINLESS STEEL
		TA	TRANSFER AIR
		TEMP	TEMPERATURE
		TG	TRANSFER GRILLE
		TP	TEMPERATURE/ PRESSURE TEST PORT
		TSTAT	THERMOSTAT
		TYP	TYPICAL
		UH	UNIT HEATER
		UL	UNDERWRITER'S LABORATORY
		UMCS	UTILITY MONITORING AND CONTROL SYSTEM
		V	VOLTAGE, VOLTS
		VAV	VARIABLE AIR VOLUME
		VD	VOLUME DAMPER
		VELO	VELOCITY
		VFD	VARIABLE FREQUENCY DRIVE
		VSD	VARIABLE SPEED DRIVE
		W	WATT(S), WIDTH
		W/O	WITHOUT
		WB, Twb	WET BULB (TEMPERATURE)
		WD	WIDE
		WMS	WIRE MESH SCREEN
FCU	FAN COIL UNIT		
FD	FIRE DAMPER		
FFE	FINISHED FLOOR ELEVATION		
FLA	FULL LOAD AMPS		
FBM	FEET PER MINUTE		
FSD	FIRE SMOKE DAMPER		
FT	FOOT, FEET		
FT WG	FEET WATER GAUGE		
FV	FLUE VENT, FACE VELOCITY		
GA	GAGE		
GC	GENERAL CONTRACTOR		
GPM	GALLONS PER MINUTE		

## DUCTWORK LEGEND:

	ROUND DUCT. DIAMETER INDICATED IN INCHES.
	FLAT OVAL DUCT. SIZE INDICATED IN INCHES, FIRST NUMBER IS SIDE SHOWN
	RECTANGULAR DUCT. SIZE INDICATED IN INCHES, FIRST NUMBER IS SIDE SHOWN. DASHED LINES INDICATE ACOUSTICAL LINER
	90 DEGREE DUCT ELBOW WITH TURNING VANES
	RADIUS DUCT ELBOW - ROUND OR RECTANGULAR (MIN. 1.5 RADIUS UNLESS OTHERWISE NOTED)
	RECTANGULAR DUCT BRANCH TAKE-OFF WITH 45 DEGREE BRANCH INLET
	SQUARE TO ROUND DUCT BRANCH TAKE-OFF WITH 45 DEGREE BRANCH INLET
	FLARED SPIN-IN WITH DAMPER AND FLEX DUCT (DIFFUSER CONNECTION)
	ROUND DUCT BRANCH TAKE-OFF FROM RECTANGULAR MAIN WITH CONICAL TAP
	DUCT SIZE TRANSITION
	DUCT SIZE TRANSITION RECTANGULAR TO ROUND
	FLEXIBLE DUCT CONNECTION
	SUPPLY OR OUTSIDE AIR DUCT UP
	SUPPLY OR OUTSIDE AIR DUCT DOWN
	RETURN AIR DUCT UP
	RETURN AIR DUCT DOWN
	EXHAUST AIR DUCT UP
	EXHAUST AIR DUCT DOWN
	IN-LINE 90 DEGREE RISE/DROP IN SUPPLY DUCT (RIGHT SIDE IS HIGHER)
	IN-LINE 90 DEGREE RISE/DROP IN SUPPLY DUCT (LEFT SIDE IS HIGHER)
	IN-LINE 90 DEGREE RISE/DROP IN RETURN DUCT (RIGHT SIDE IS HIGHER)
	IN-LINE 90 DEGREE RISE/DROP IN RETURN DUCT (LEFT SIDE IS HIGHER)
	IN-LINE 90 DEGREE RISE/DROP IN EXHAUST DUCT (RIGHT SIDE IS HIGHER)
	IN-LINE 90 DEGREE RISE/DROP IN EXHAUST DUCT (LEFT SIDE IS HIGHER)
	DUCT MOUNTED HUMIDIFIER
	DUCT MOUNTED SMOKE DETECTOR
	VOLUME/BALANCING DAMPER (LABEL MAY BE OMITTED)
	BACKDRAFT DAMPER (COUNTER-BALANCED UNLESS OTHERWISE NOTED)
	DAMPER TYPE: M - MOTORIZED DAMPER (ELECTRIC) P - PNEUMATIC-ACTUATED DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE/SMOKE DAMPER

## PIPING LEGEND:

	CONDENSATE DRAIN
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	CONDENSER WATER RETURN
	CONDENSER WATER SUPPLY
	HEATING HOT WATER RETURN
	HEATING HOT WATER SUPPLY
	REFRIGERANT HOT GAS
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	ELBOW UP
	ELBOW DOWN
	RISE OR DROP
	BRANCH BOTTOM CONNECTION
	BRANCH TOP CONNECTION
	TEE OUTLET UP
	TEE OUTLET DOWN
	PIPE CAP
	CLEANOUT
	PIPE CONTINUATION
	PIPE BELOW SLAB OR BELOW GRADE
	DIRECTION OF FLOW
	DIRECTION OF SLOPE DOWN
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	UNION
	PIPE FLANGE
	PIPE ANCHOR (PA)
	PIPE GUIDE (PG)
	EXPANSION JOINT (EJ)
	FLEXIBLE PIPE CONNECTOR
	STRAINER (WITH BLOWDOWN VALVE, CAP, AND CHAIN)
	VALVE (GENERIC)
	GATE VALVE
	GLOBE VALVE
	BALL VALVE
	METERED BALANCING VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	PRESSURE REDUCING VALVE
	PRESSURE/TEMPERATURE PORT WITH GAUGE COCK
	FLOW SWITCH
	PRESSURE SWITCH
	PLUG VALVE
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	T&P RELIEF VALVE
	PRESSURE GAUGE WITH GAUGE COCK
	THERMOMETER
	WATER METER
	FLEXIBLE PIPE

## MISCELLANEOUS LEGEND:

	SUPPLY AIR DEVICE
	RETURN AIR DEVICE
	EXHAUST AIR DEVICE
	LINEAR SLOT AIR DEVICE
	FAN CONTROLLER
	REMOTE CONTROLLER (VRF SYSTEM)
	THERMOSTAT
	HUMIDISTAT
	THERMOSTAT / HUMIDISTAT
	START / STOP SWITCH
	FIRESTAT
	TEMPERATURE SENSOR
	HUMIDITY SENSOR
	STATIC PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	CARBON MONOXIDE SENSOR
	CARBON DIOXIDE SENSOR
	AIR QUALITY SENSOR
	VARIABLE FREQUENCY DRIVE
	ROUND
	OVAL OR FLAT OVAL
	SERVICE CLEARANCE
	DUCT PRESSURE CLASS (IN WG)

## AIR DISTRIBUTION DEVICE TAGS:

	CONNECTION SIZE (X"xX" INDICATES RECTANGULAR, X"/X" INDICATES OVAL, X"Ø INDICATES ROUND)
	DIFFUSER TYPE
	AIRFLOW (CFM), "PLENUM", OR "TRANSFER"
	TYP. OF #
	FLOW ARROW

ALL SUPPLY DIFFUSERS MUST BE 4-WAY FLOW PATTERN, UNLESS NOTED OTHERWISE BY FILLED REGION.

	3-WAY
	2-WAY
	2-WAY
	1-WAY

## DRAWING REFERENCE KEY:

	REFER TO
	DETAIL NUMBER
	SHEET NUMBER OF DETAIL

## DEMOLITION KEY:

	DEMOLISHED EQUIPMENT, DUCTWORK, APPURTENANCES
	DEMOLISHED PIPING
	CONNECT TO EXISTING
	DISCONNECT FROM EXISTING

## NORTH ARROW:

	PLAN NORTH
	TRUE NORTH



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

## CLIENT INFORMATION



US Fish & Wildlife Service

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: S. THOMAS  
DRAWN BY: S. THOMAS  
CHECKED BY: J. LEDYARD  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

## SHEET TITLE

MECHANICAL  
ABBREVIATIONS  
AND LEGENDS

## SHEET NUMBER

M-002

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



## SHEET NOTES

1. REFER TO M-001 FOR MECHANICAL GENERAL NOTES AND DESIGN CRITERIA.
2. REFER TO M-002 FOR MECHANICAL ABBREVIATIONS AND LEGENDS.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

## CLIENT INFORMATION



US Fish & Wildlife Service

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: S. THOMAS  
DRAWN BY: S. THOMAS  
CHECKED BY: J. LEDYARD  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

## SHEET TITLE

MECHANICAL  
HVAC FLOOR  
PLAN

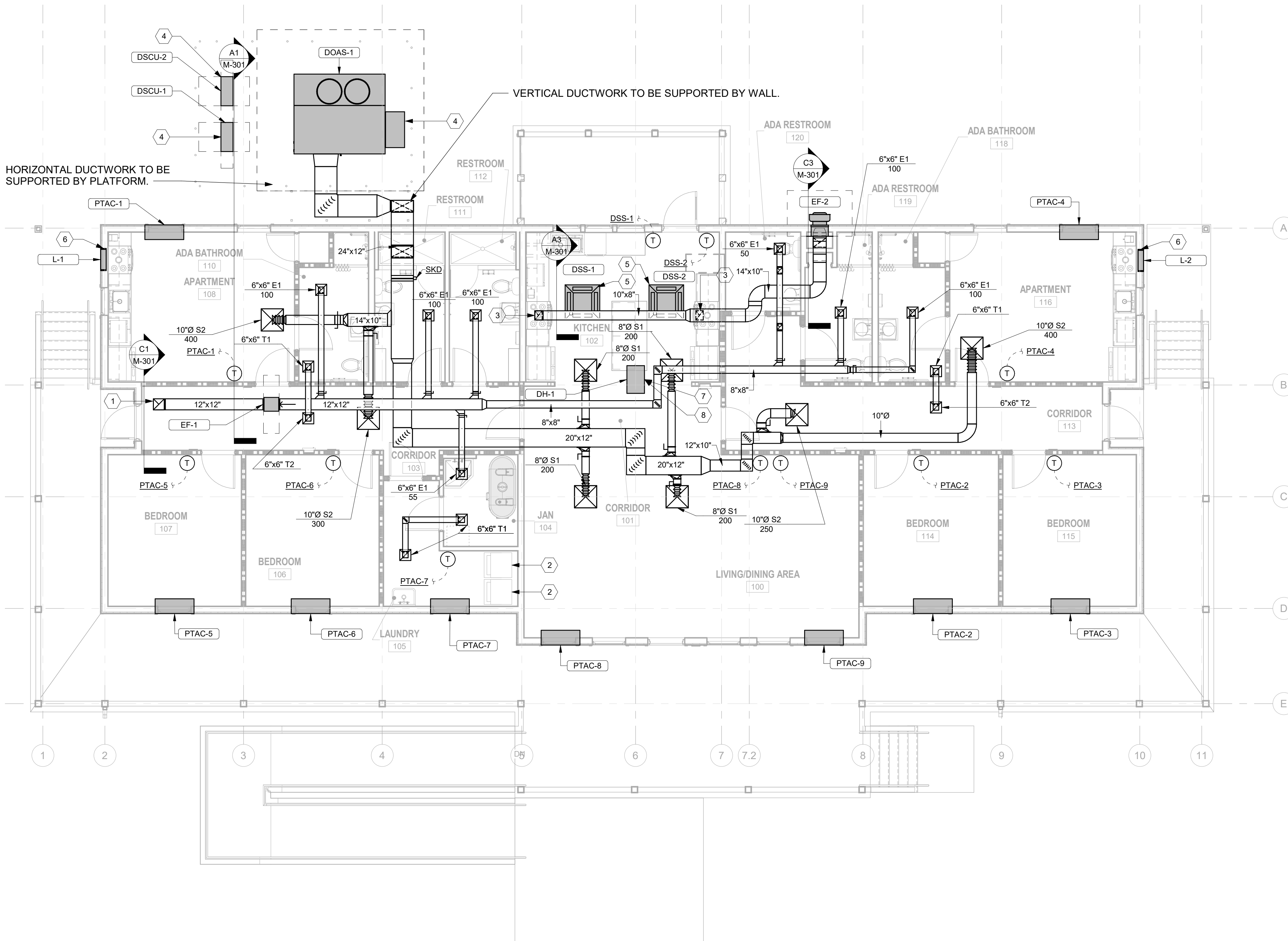
## SHEET NUMBER

MH101

ORIGINAL SHEET SIZE:  
24" X 36"

## # KEYNOTES

- 1 EXHAUST DUCTWORK ROUTED UP THROUGH ROOF TO RH-1. SEE A1/MH102 FOR CONTINUATION.
- 2 ROUTE 4" DRYER VENT DUCTWORK DOWN PENETRATING THROUGH THE FLOOR AND ROUTING OUT TOWARDS THE STAIR. IT SHALL TERMINATE AT A DRYER VENT CAP ON THE UNDERSIDE OF THE STRUCTURE AT COLUMN LINE E.
- 3 TIE KITCHEN EXHAUST DUCTWORK INTO MICROWAVE EXHAUST PLENUM BOX. THE AIRFLOW SHALL BE BALANCED AT 400 CFM PER MANUFACTURER. PROVIDE PLENUM BOX WITH DAMPER. MATCH DUCT SIZE TO PLENUM CONNECTION SIZE AT CONNECTION. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR DETAILS ON HOW TO CONNECT TO PLENUM BOX.
- 4 EQUIPMENT LOCATED ON STRUCTURAL PLATFORM. REFER TO STRUCTURE FOR DETAILS.
- 5 ROUTE CONDENSATE PIPING TO MOP SINK IN 104 JAN. PROVIDE MANUFACTURER'S CONDENSATE PUMP. SLOPE PIPING PER MANUFACTURER'S RECOMMENDATION.
- 6 TIE WALL LOUVER USING MANUFACTURER'S RECOMMENDED DUCTWORK INTO MICROWAVE EXHAUST PLENUM BOX. THE AIRFLOW SHALL BE BALANCED AT 400 CFM PER MANUFACTURER. PROVIDE PLENUM BOX WITH DAMPER. MATCH DUCT SIZE TO LOUVER CONNECTION SIZE AT CONNECTION. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR DETAILS ON HOW TO CONNECT TO PLENUM BOX.
- 7 ROUTE DEHUMIDIFIER DRAIN LINE TO MOP SINK IN 104 JAN. PROVIDE MANUFACTURER'S CONDENSATE PUMP. SLOPE PIPING PER MANUFACTURER'S RECOMMENDATION.
- 8 DEHUMIDIFIER SHALL BE SUSPENDED FROM STRUCTURE AND LOCATED IN THE ATTIC. REFER TO STRUCTURE FOR DETAILS.



## A1 MECHANICAL HVAC FLOOR PLAN

SCALE: 3/16" = 1'-0"

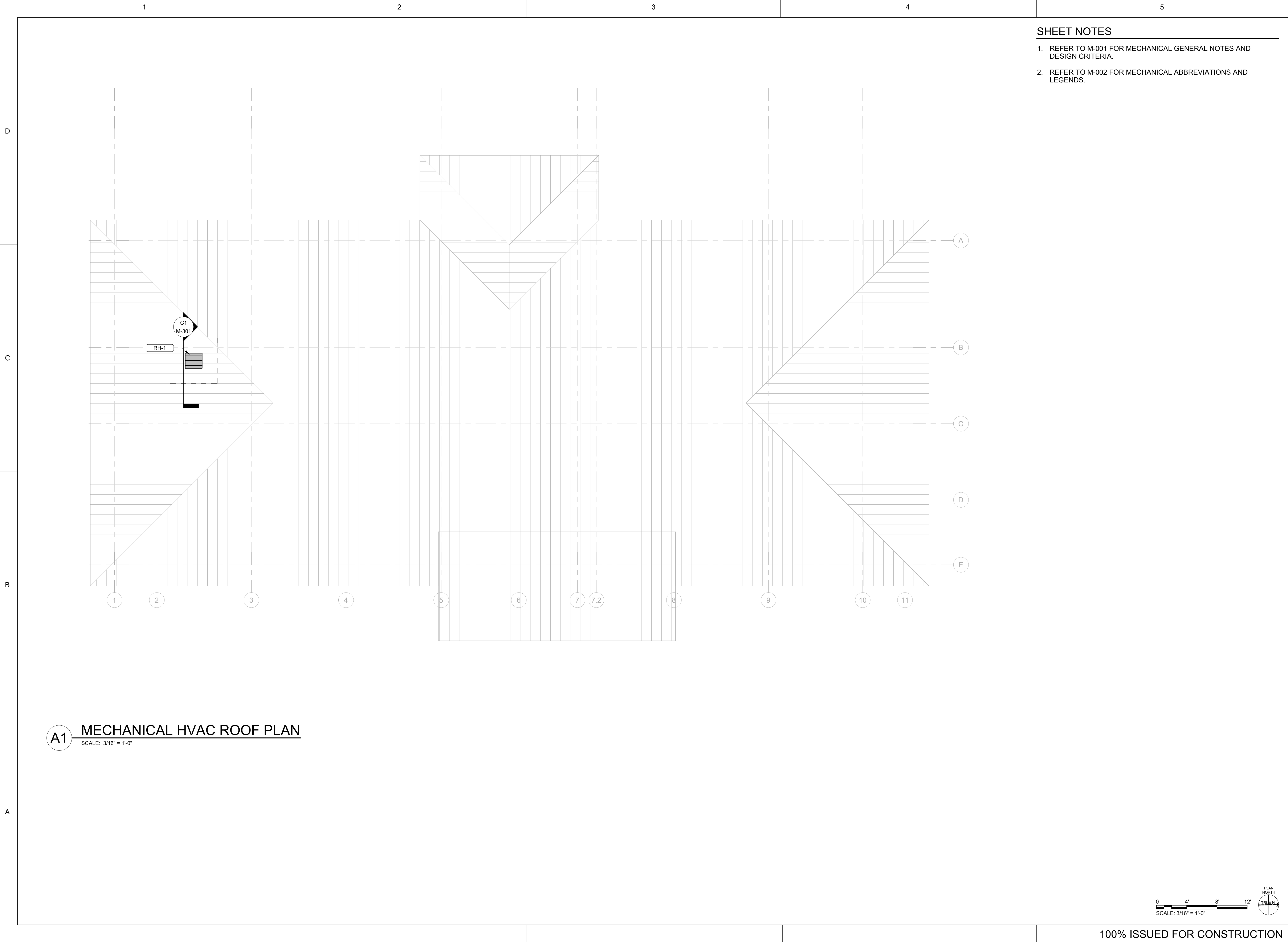
0 4' 8' 12'  
SCALE: 3/16" = 1'-0"



100% ISSUED FOR CONSTRUCTION



2/10/2025 11:09:59 AM BIM 360://1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_MEPP\_V21.rvt



- SHEET NOTES**
1. REFER TO M-001 FOR MECHANICAL GENERAL NOTES AND DESIGN CRITERIA.
  2. REFER TO M-002 FOR MECHANICAL ABBREVIATIONS AND LEGENDS.

**POND**  
3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092  
Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.  
**EOR/AOR SEAL**

**CONSULTANT**

**CLIENT INFORMATION**  
  
US Fish & Wildlife Service

**PROJECT NAME**  
Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

**DRAWING ISSUE**  
DATE

**DESCRIPTION**

**MARK**

DESIGNED BY: S. THOMAS  
DRAWN BY: S. THOMAS  
CHECKED BY: J. LEDYARD  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

**SHEET TITLE**  
MECHANICAL  
HVAC ROOF PLAN

**SHEET NUMBER**  
MH102

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



## SHEET NOTES

1. REFER TO M-001 FOR MECHANICAL GENERAL NOTES AND DESIGN CRITERIA.
2. REFER TO M-002 FOR MECHANICAL ABBREVIATIONS AND LEGENDS.

**POND**3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond &amp; Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond &amp; Company.

EOR/AOR SEAL

CONSULTANT

## CLIENT INFORMATION



US Fish &amp; Wildlife Service

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
BunkhouseLA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

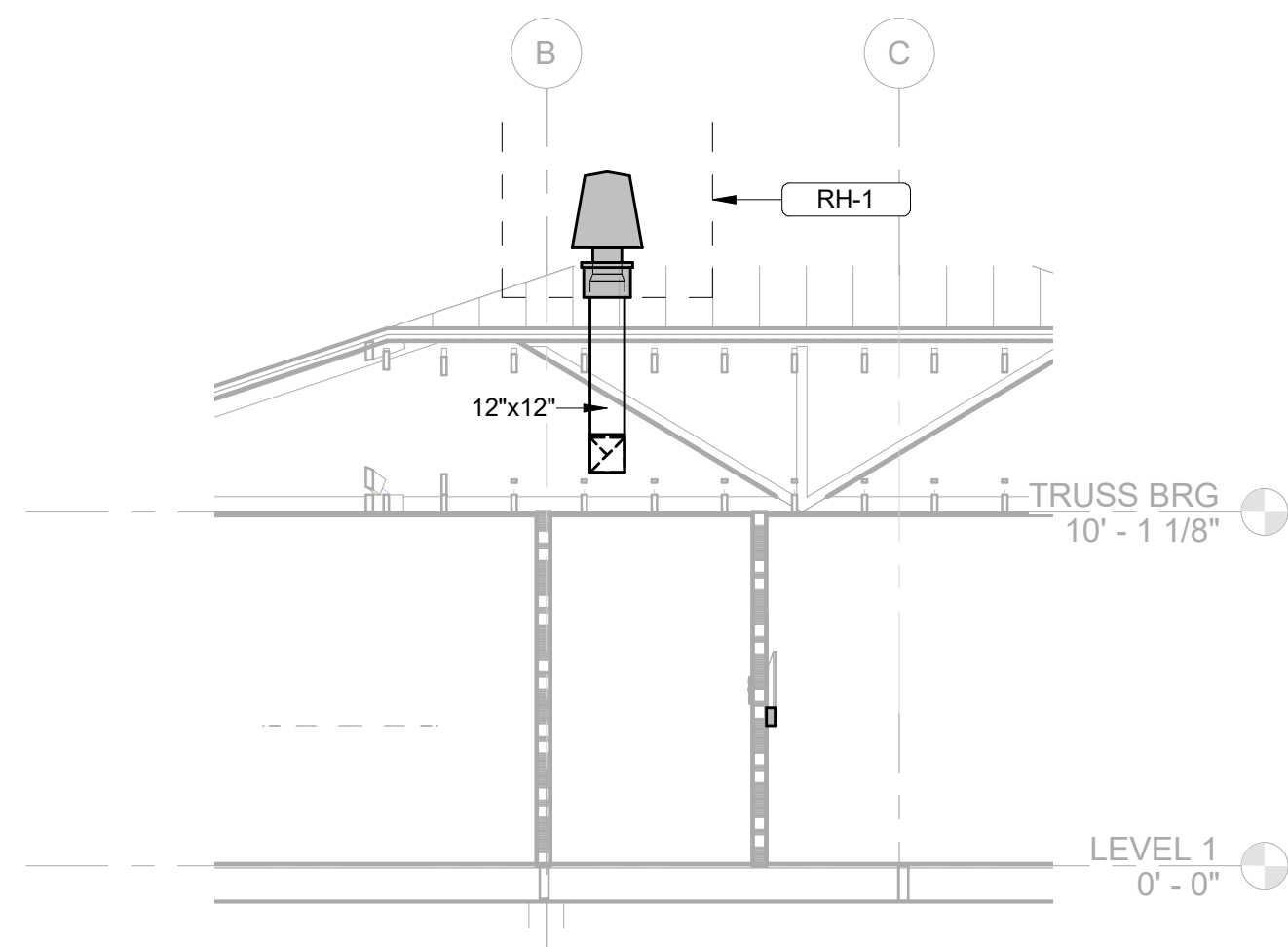
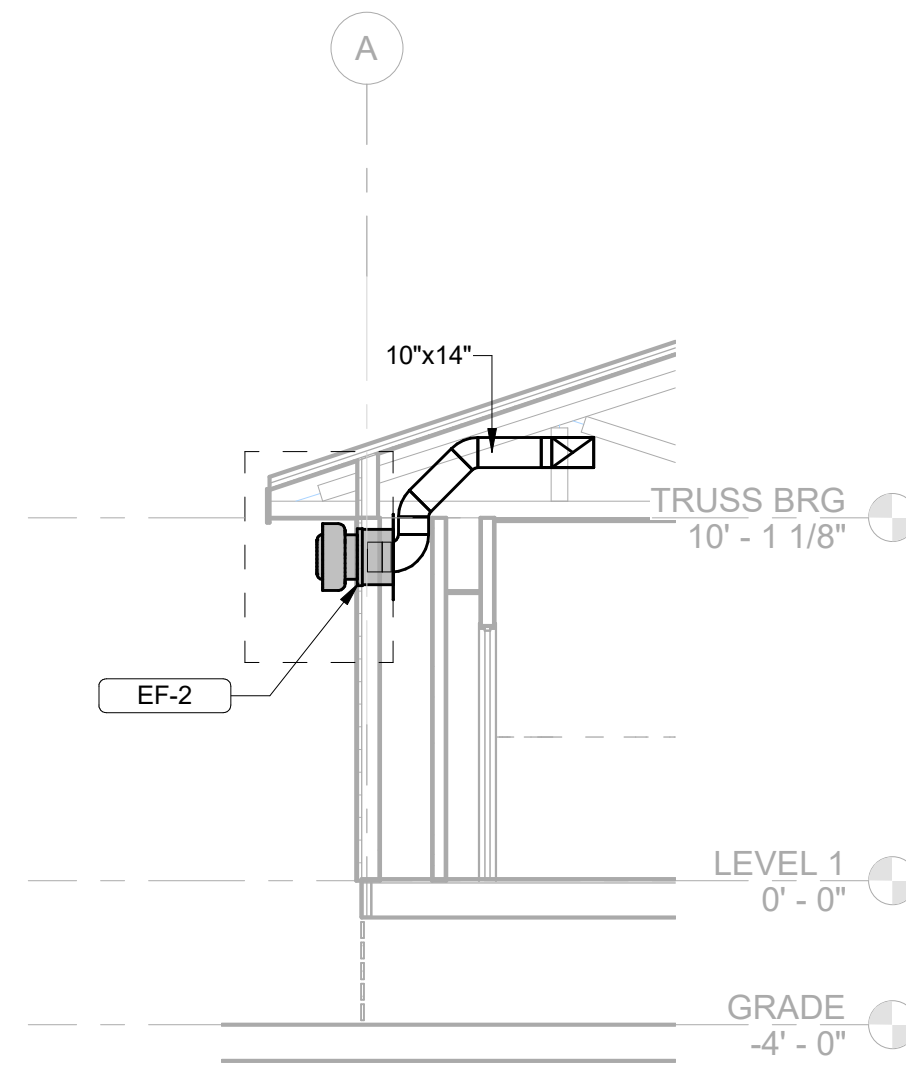
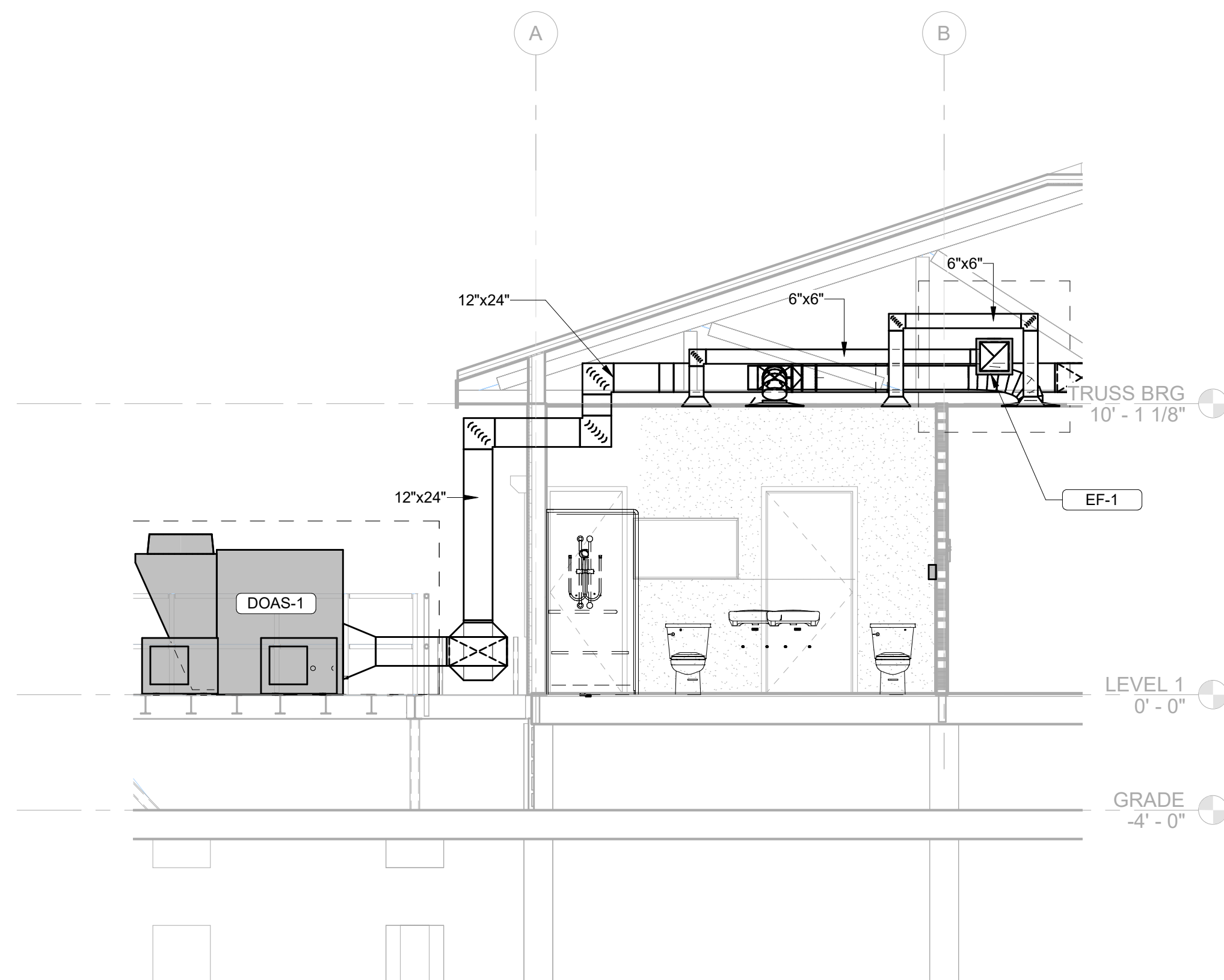
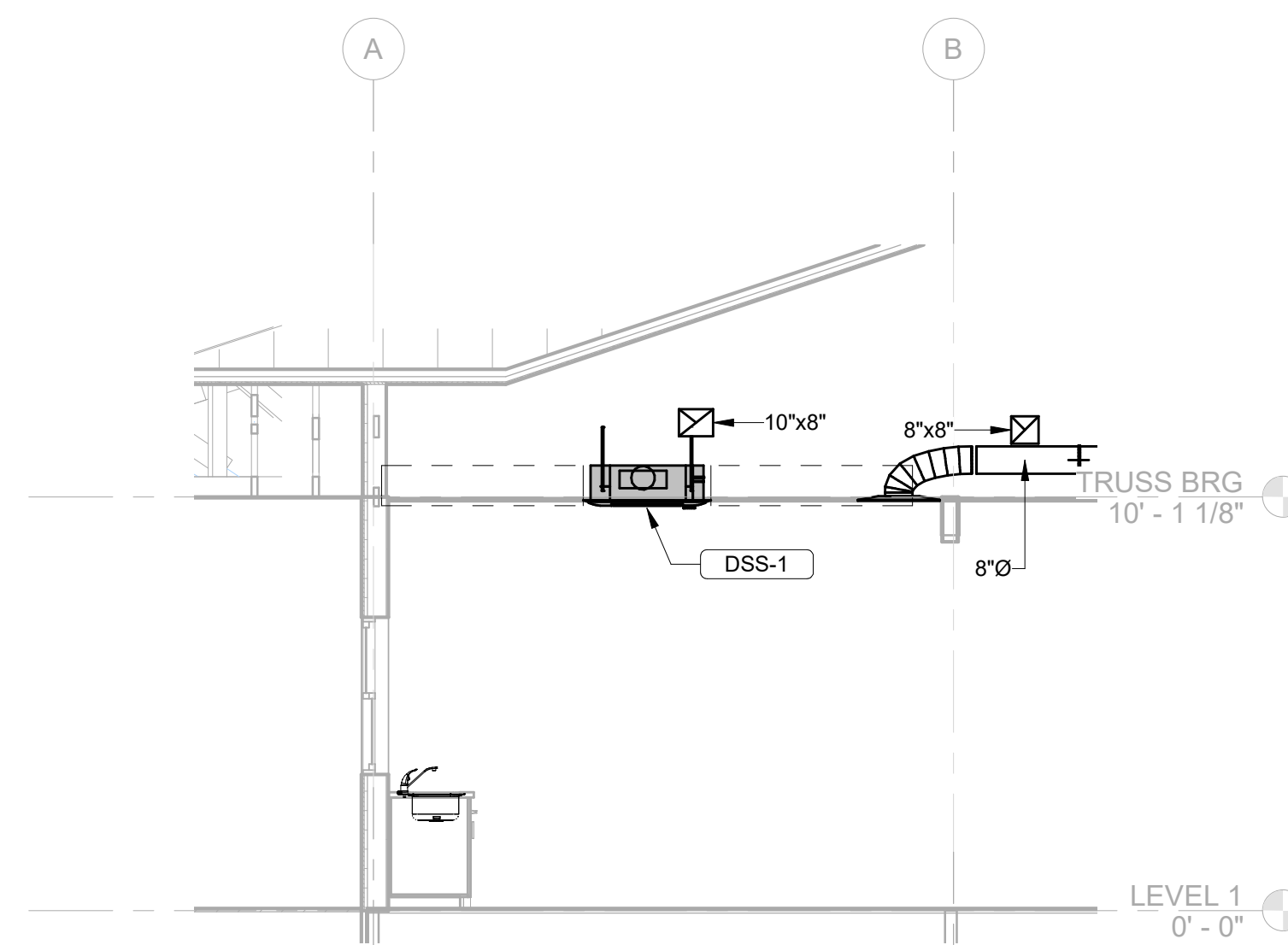
DESIGNED BY: S. THOMAS  
DRAWN BY: S. THOMAS  
CHECKED BY: J. LEDYARD  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

## SHEET TITLE

MECHANICAL  
SECTIONS

## SHEET NUMBER

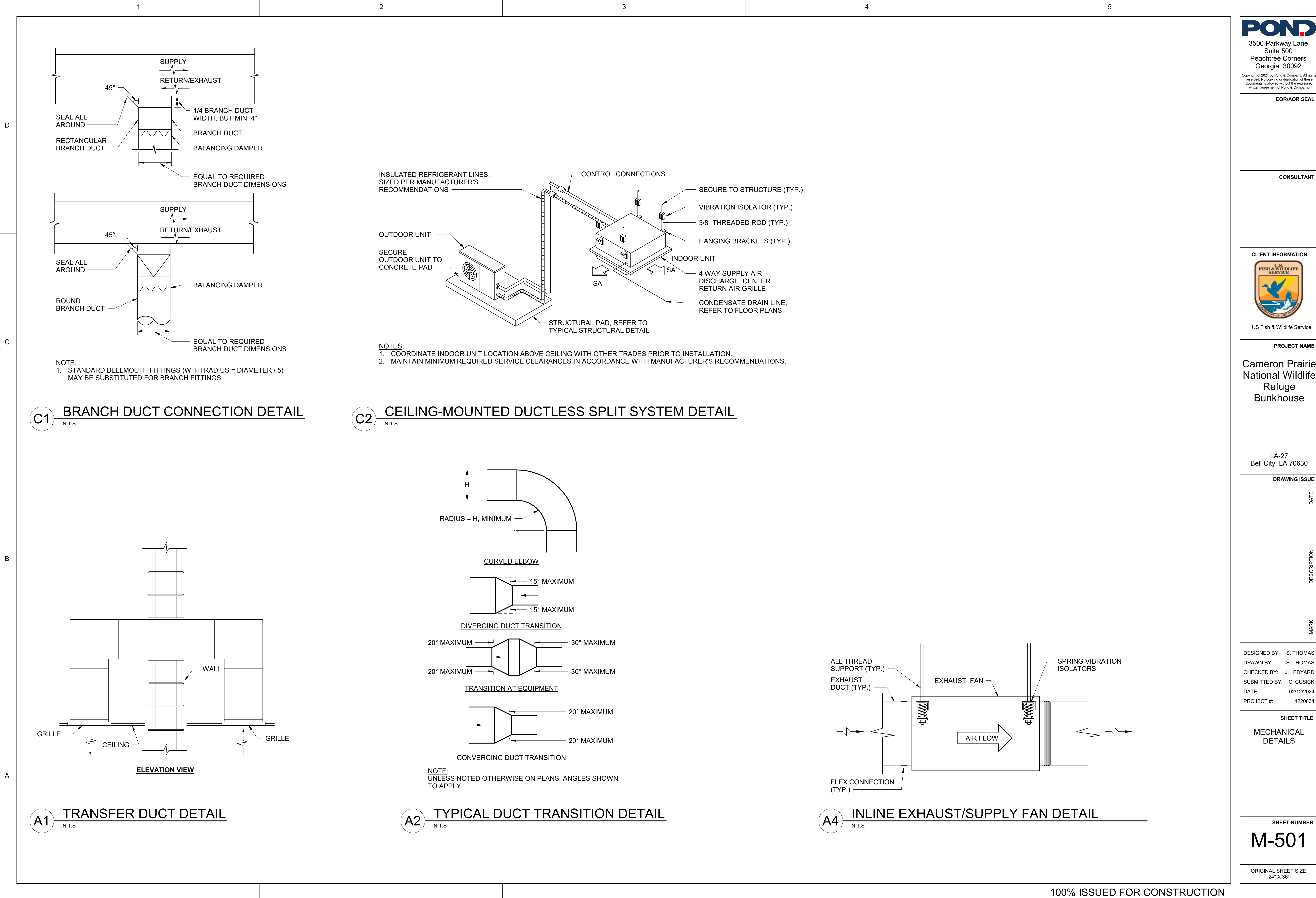
M-301

ORIGINAL SHEET SIZE:  
24" X 36"**C1 EXHAUST DUCT THROUGH TRUSS**  
N.T.S.**C3 KITCHEN EXHAUST FAN**  
N.T.S.**A1 DOAS AND SUPPLY DUCT THROUGH WALL**  
N.T.S.**A3 DSS IN KITCHEN AND EXHAUST DUCT**  
N.T.S.

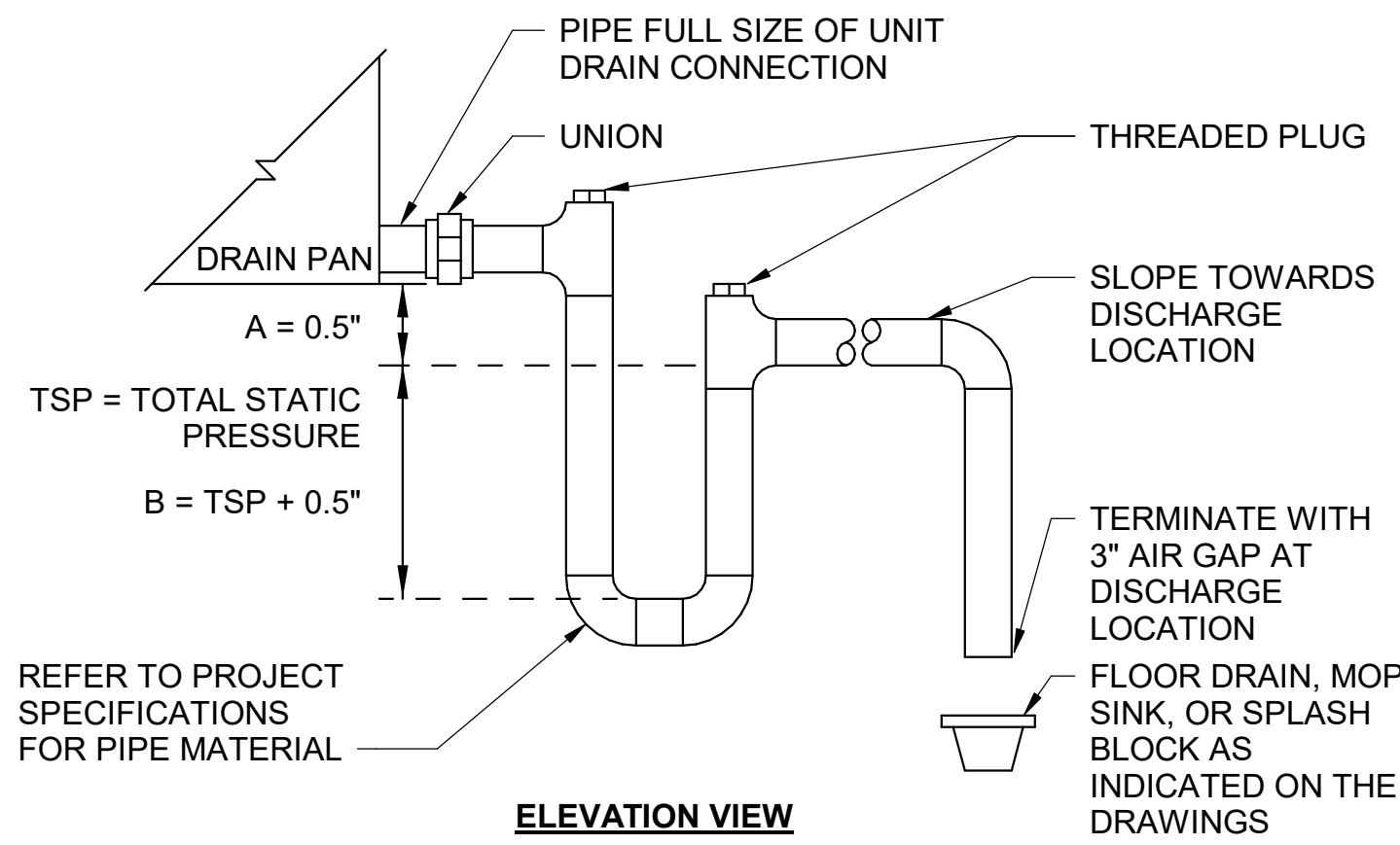
100% ISSUED FOR CONSTRUCTION



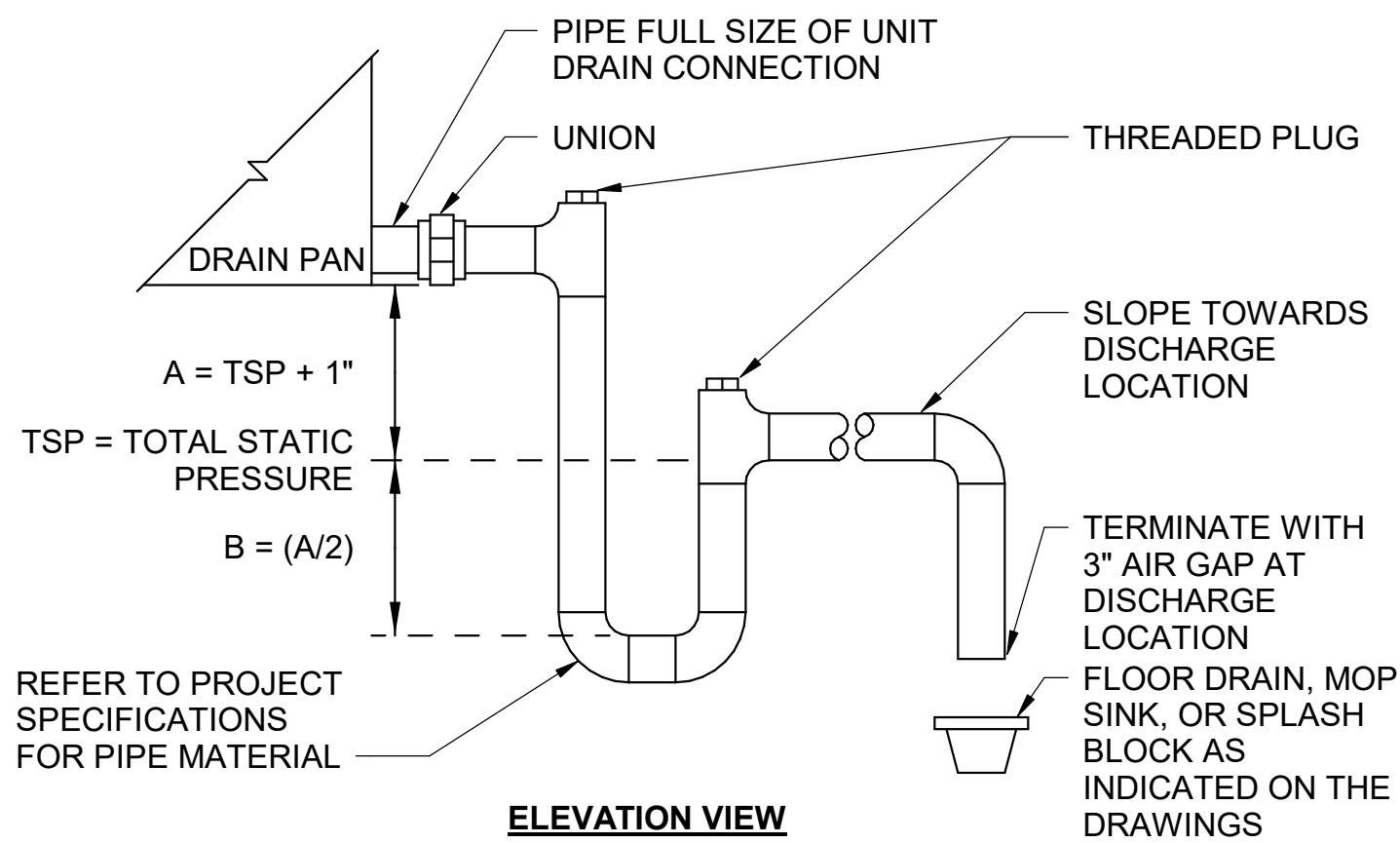
2/10/2025 11:09:53 AM BIM 360://1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_MEPP\_V21.rvt



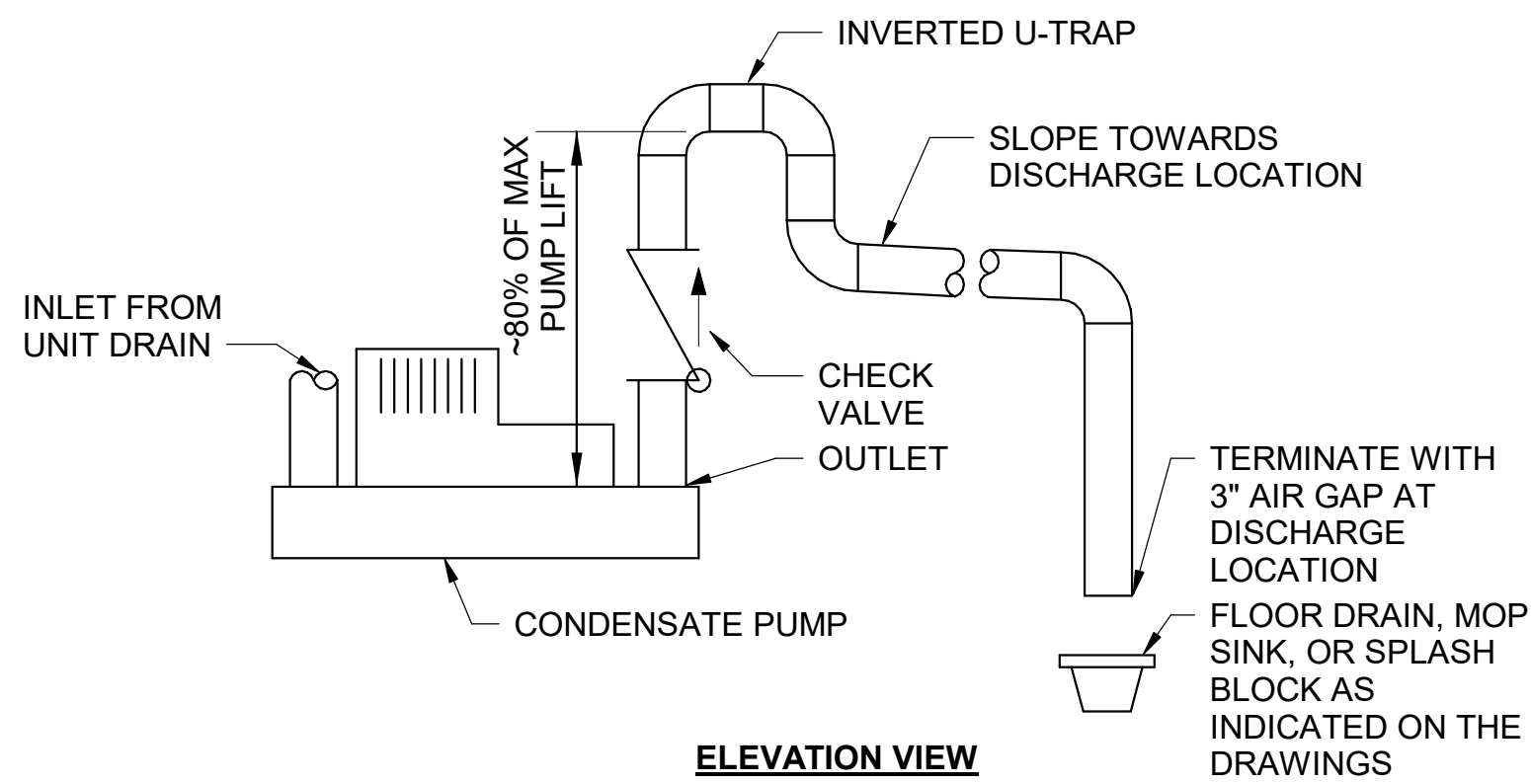




C1 CONDENSATE DRAIN (BLOW-THROUGH FAN) DETAIL  
N.T.S

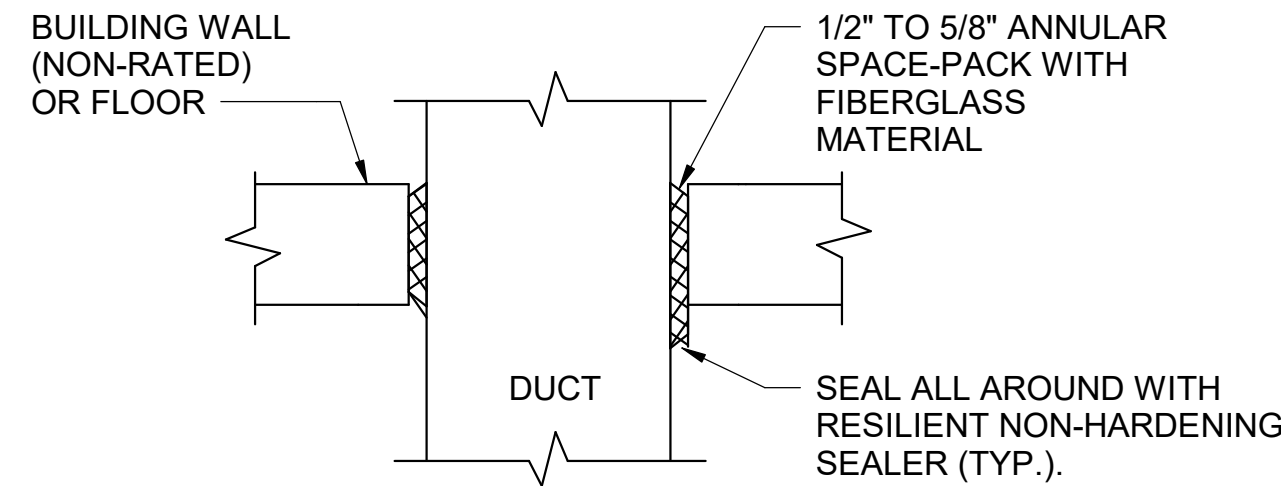


B1 CONDENSATE DRAIN (DRAW-THROUGH FAN) DETAIL  
N.T.S

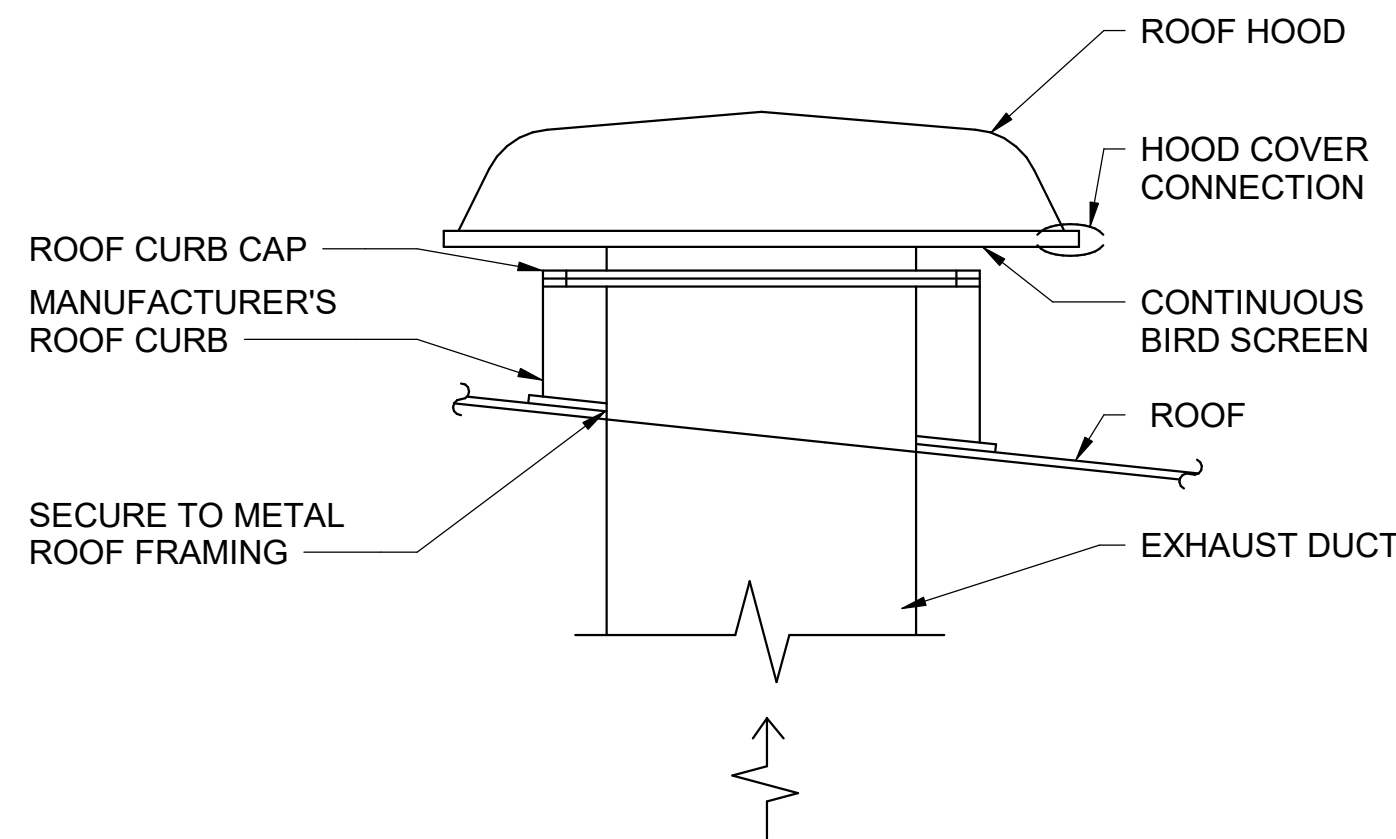


- NOTE:
1. CONNECT UNIT DRAIN OUTLET TO CONDENSATE PUMP PER MANUFACTURER'S RECOMMENDATIONS. PIPE FULL SIZE OF UNIT CONNECTION.
  2. PROVIDE CONDENSATE PUMP OUTLET DRAIN MATERIAL AND SIZE PER MANUFACTURER'S RECOMMENDATIONS.

A1 CONDENSATE DRAIN (PUMPED) DETAIL  
N.T.S

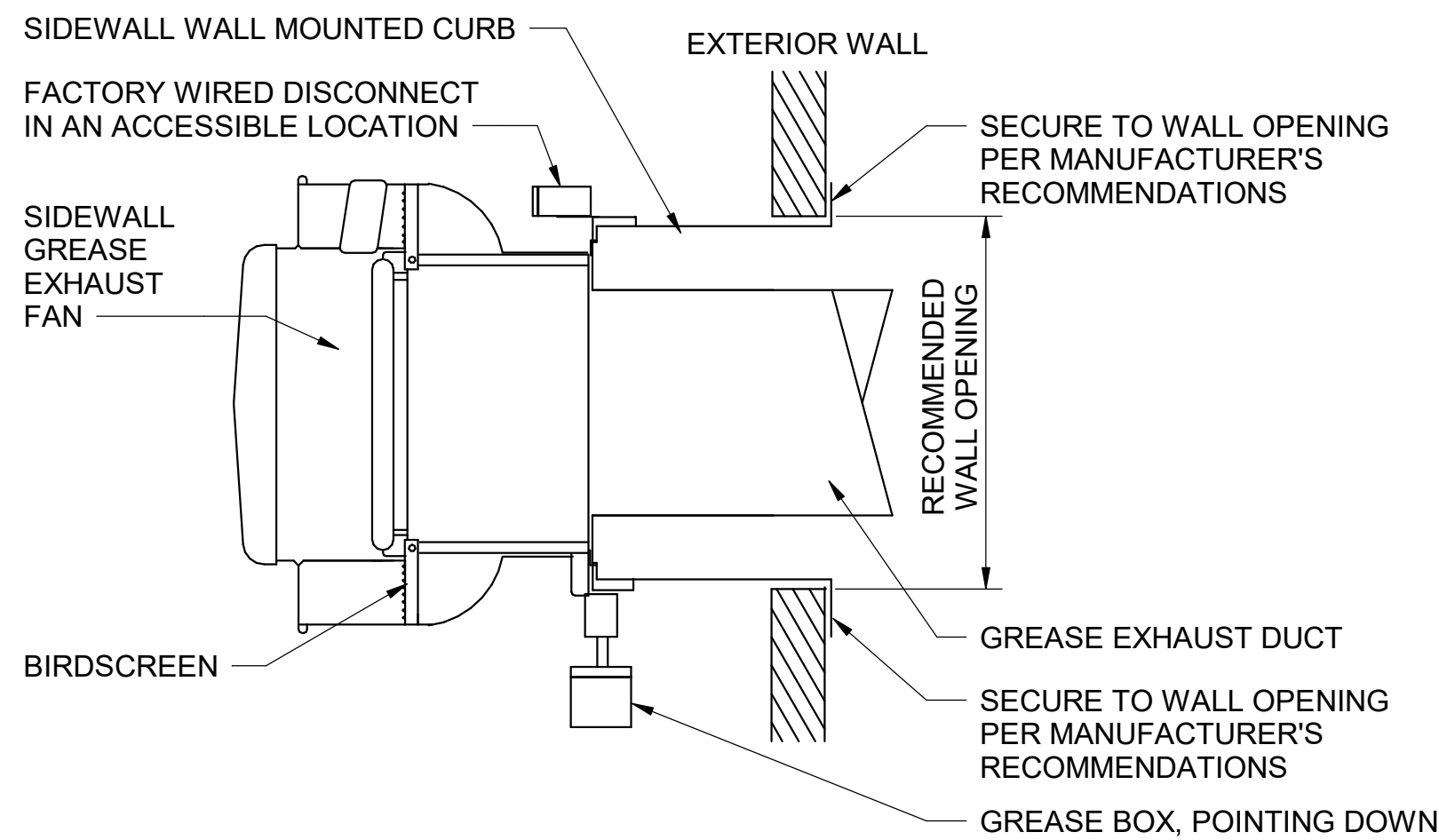


D4 DUCT PENETRATION DETAIL  
N.T.S



- NOTES:
1. INSTALL ROOF HOOD PER ROOF MANUFACTURER'S RECOMMENDATIONS.

B4 EXHAUST ROOF HOOD DETAIL  
N.T.S



A4 GREASE SIDEWALL EXHAUST FAN DETAIL  
N.T.S



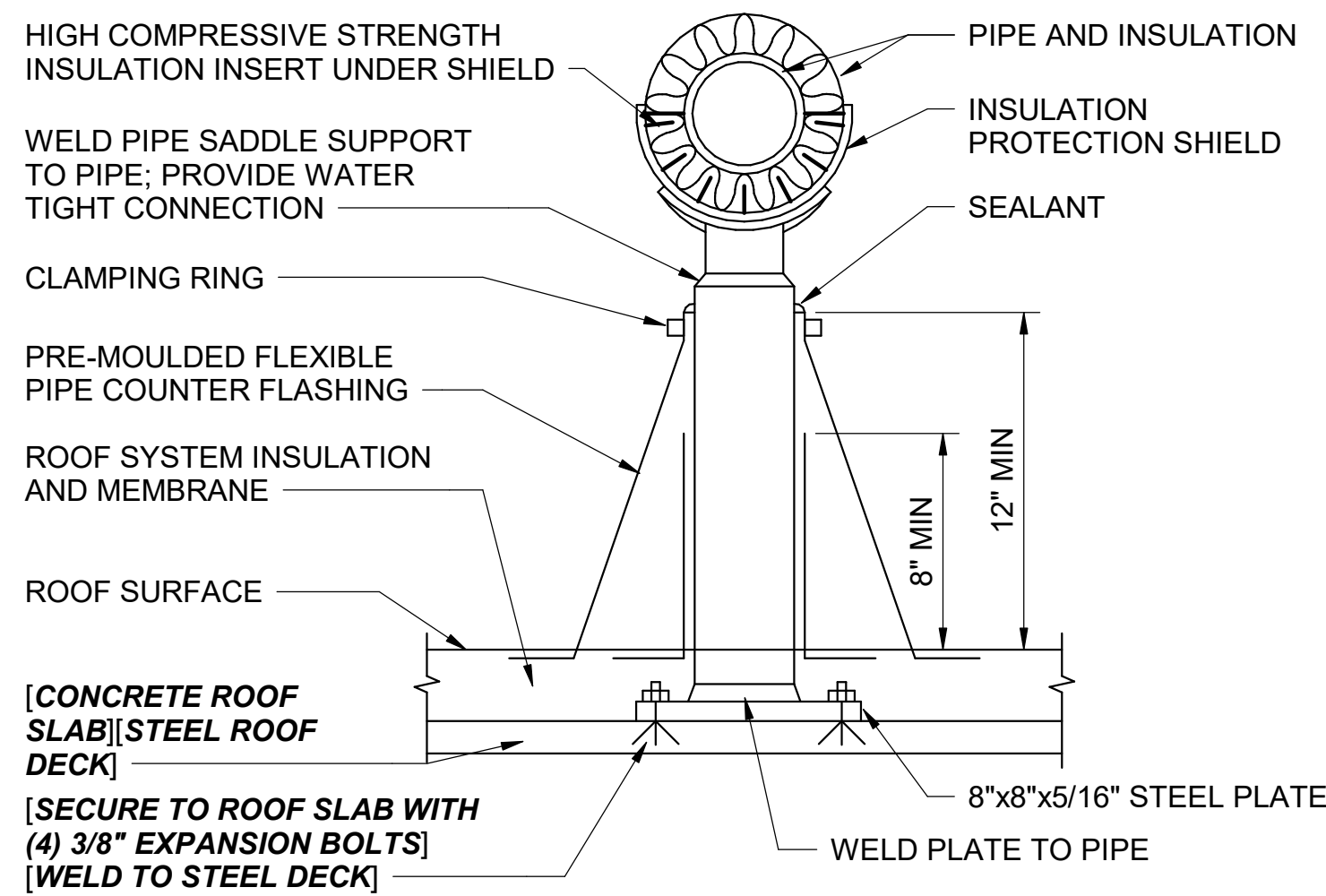
Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

DESIGNED BY: S. THOMAS  
DRAWN BY: S. THOMAS  
CHECKED BY: J. LEDYARD  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

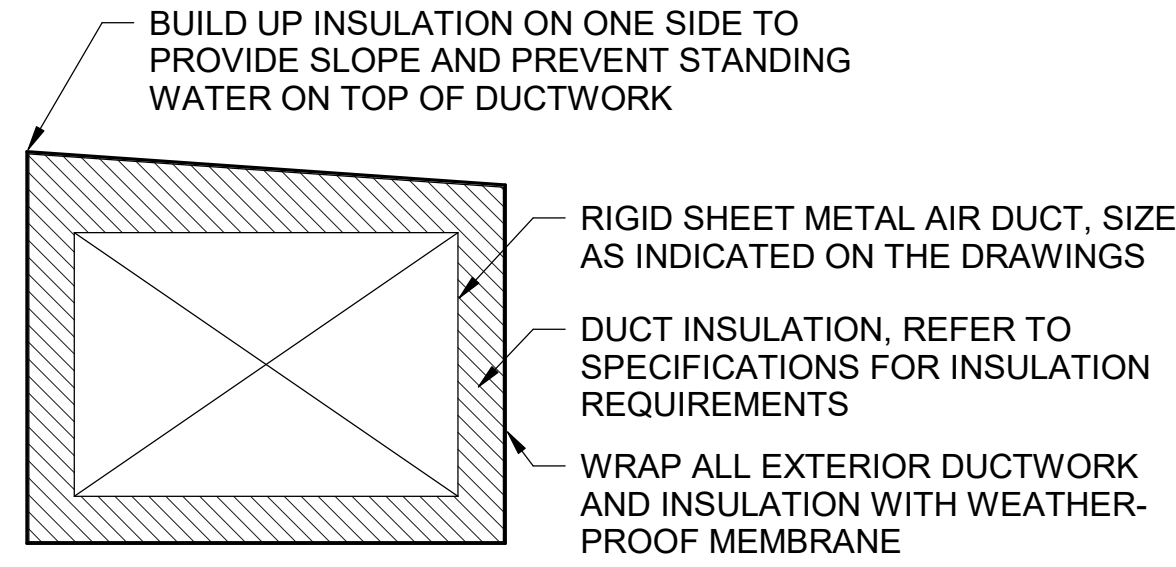
MECHANICAL  
DETAILS

M-502



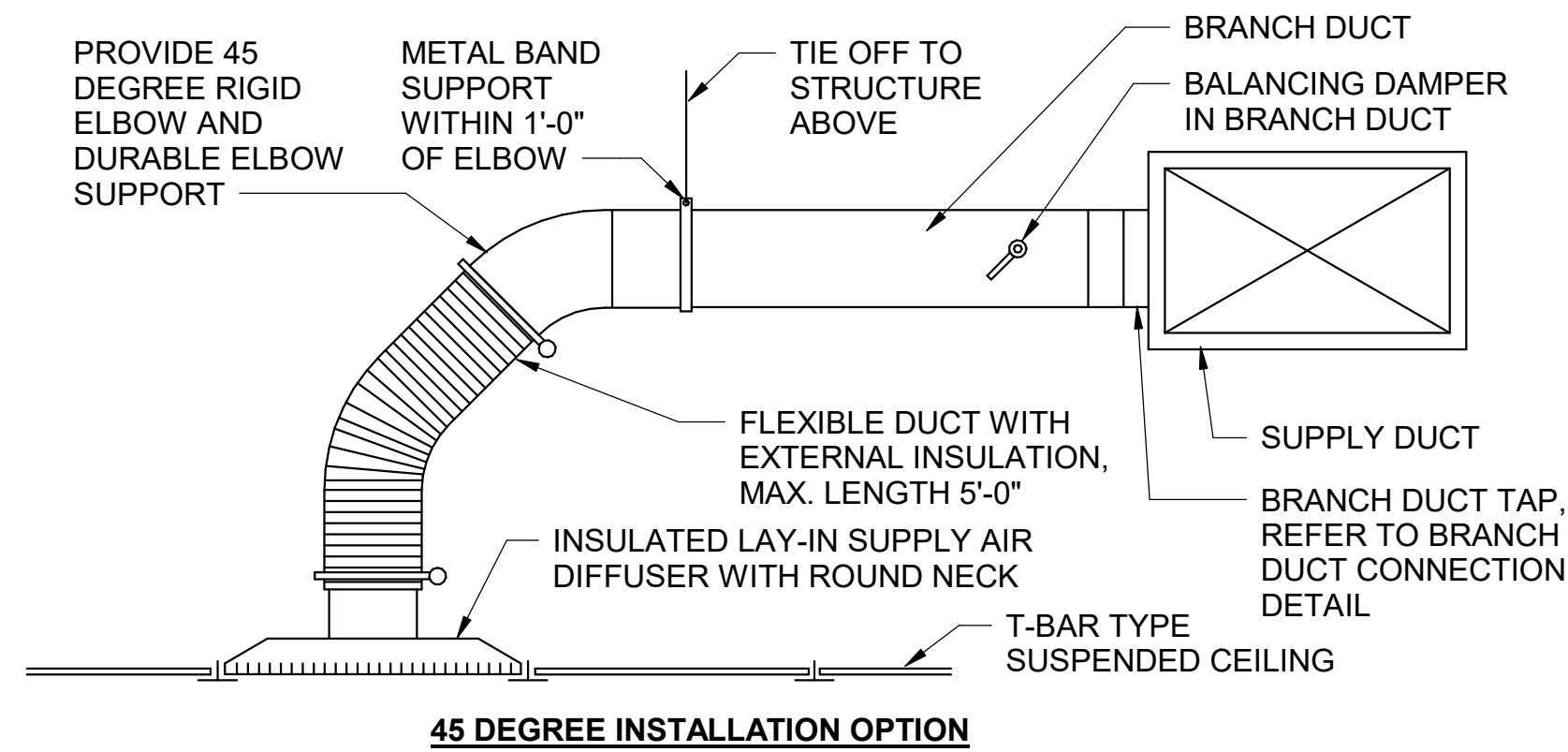


**C1** TYPICAL ROOFTOP PIPE SUPPORT DETAIL  
N.T.S.

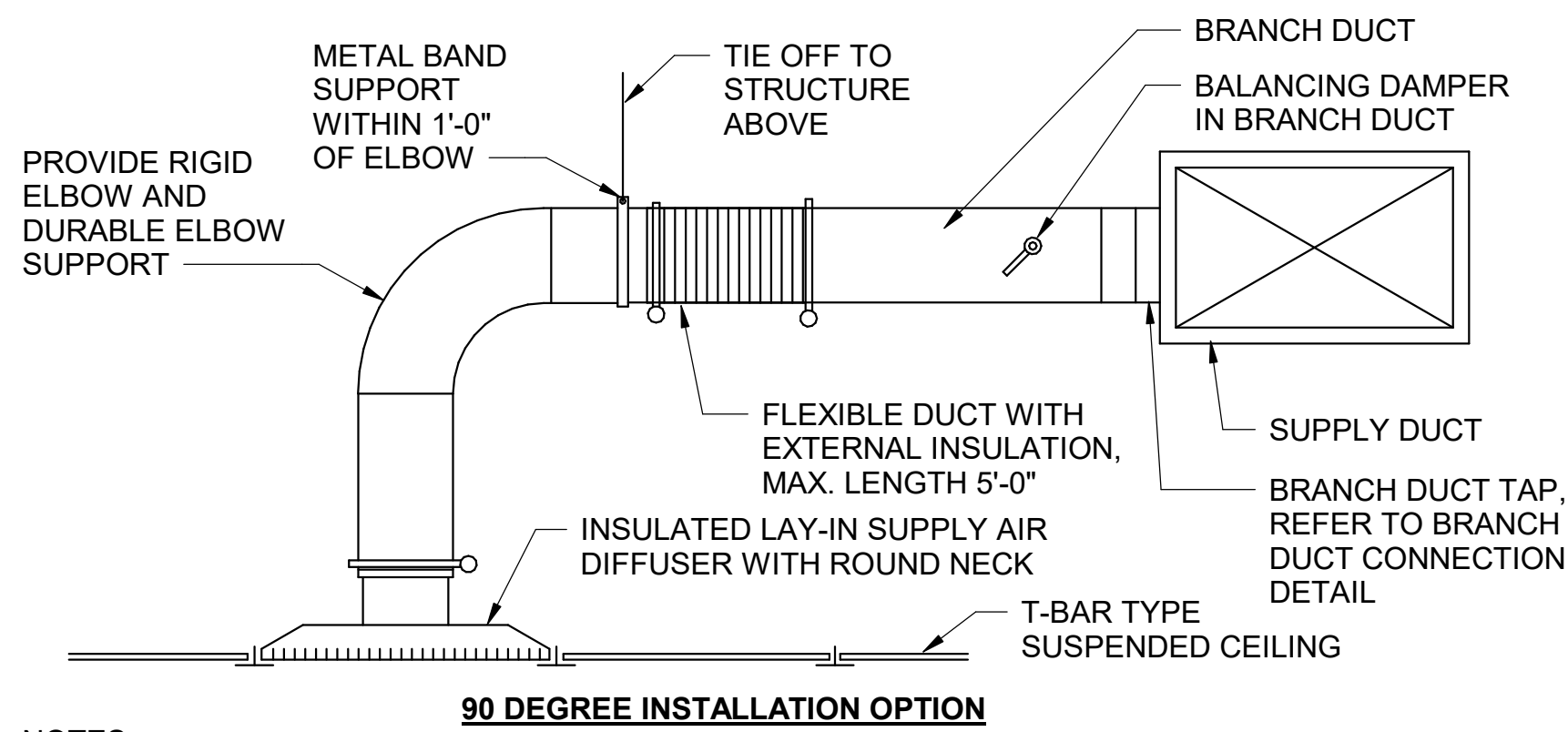


- NOTES:
1. WATERPROOF ALL SEAMS AND JOINTS IN DUCTS PER SPECIFICATIONS.
  2. SEAL ALL SEAMS AND JOINTS AT POINTS OF SUPPORT AND REINFORCEMENT ATTACHMENTS PER SPECIFICATIONS.
  3. REFER TO STRUCTURAL DRAWINGS FOR EXPOSED EXTERIOR DUCT SUPPORT DETAILS.

**C2** EXPOSED EXTERIOR DUCTWORK DETAIL  
N.T.S.



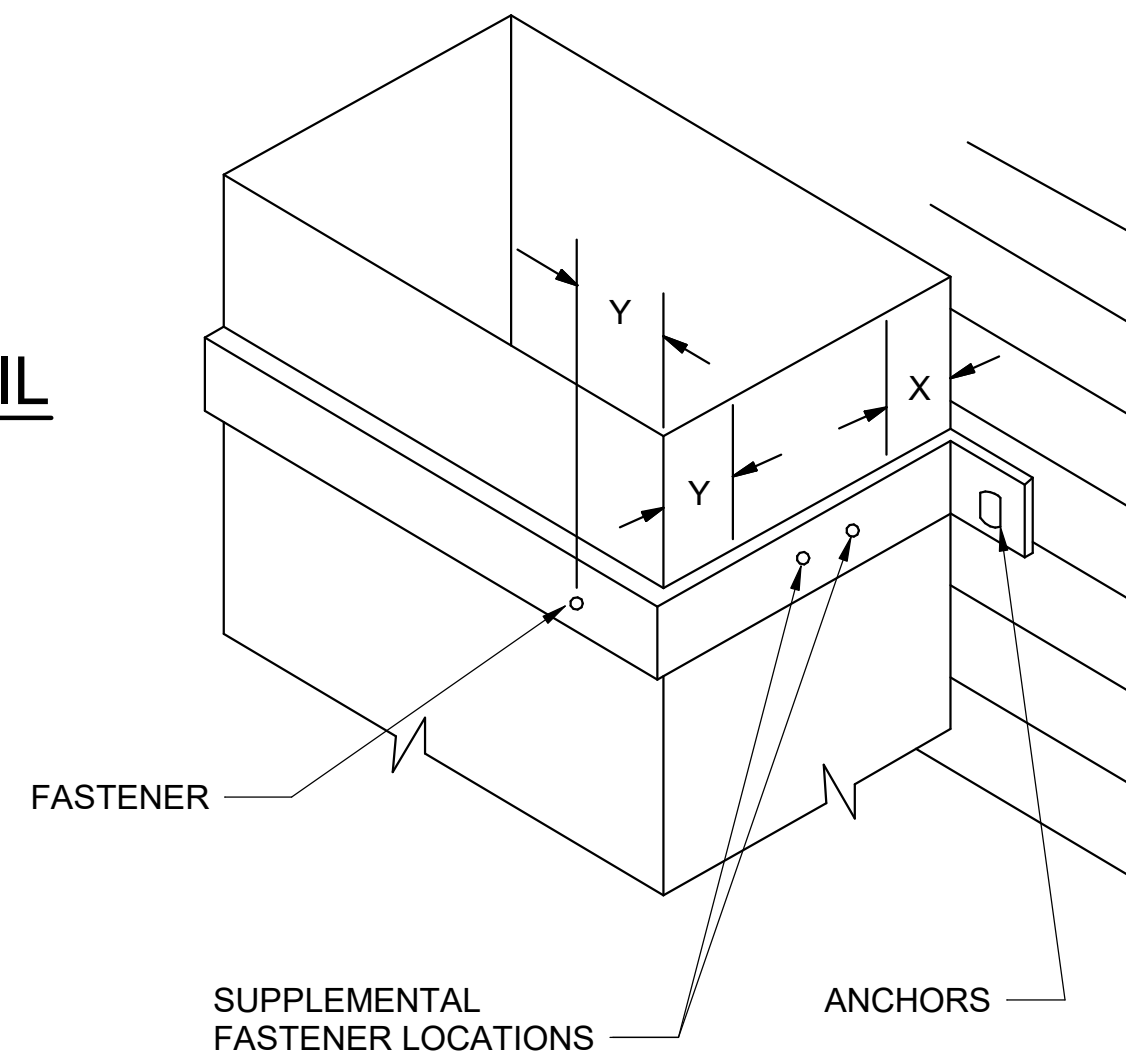
**45 DEGREE INSTALLATION OPTION**



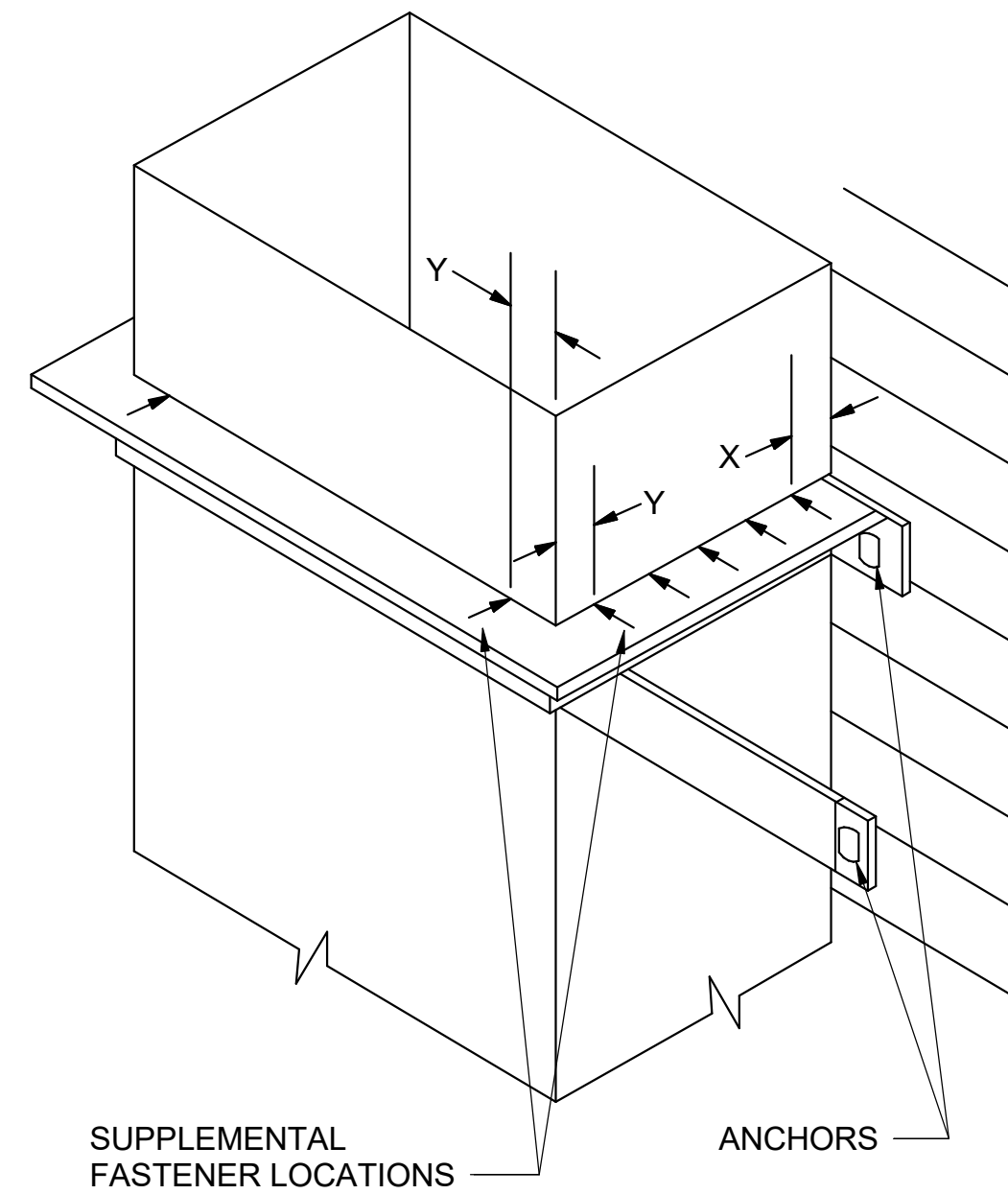
**90 DEGREE INSTALLATION OPTION**

- NOTES:
1. NECK SIZE OF DIFFUSER TO MATCH FLEXIBLE DUCT SIZE UNLESS NOTED OTHERWISE ON PLANS.
  2. COORDINATE DIFFUSER FRAME TYPE WITH CEILING.
  3. FLEXIBLE RUN-OUT DUCT TO NOT EXCEED 5'-0" IN LENGTH AND ANGLE OF OFFSET TO NOT EXCEED 45 DEGREES.

**A1** FLEXIBLE DUCT CONNECTION DETAIL  
N.T.S.



**FIGURE A**



**FIGURE B**

NOTES:

1. BRACKETS ARE SIZED FOR 12 FEET OF DUCT MAXIMUM.
2. LOCATE DUCTS AGAINST WALL OR MAXIMUM OF 2" AWAY FROM WALL.
3. EACH WALL ANCHOR TO SATISFY THE FOLLOWING CRITERIA UNLESS OTHER ANALYSIS IS MADE:
  - A. TENSILE LOAD = 3/8 x DUCT WEIGHT; SAFETY FACTOR 4.
  - B. SHEAR LOAD x 1/2 x DUCT WEIGHT; SAFETY FACTOR 4.

(DETAIL FROM SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE, 3RD EDITION)

**A3** RECTANGULAR DUCT SUPPORT FROM WALL DETAIL  
N.T.S.

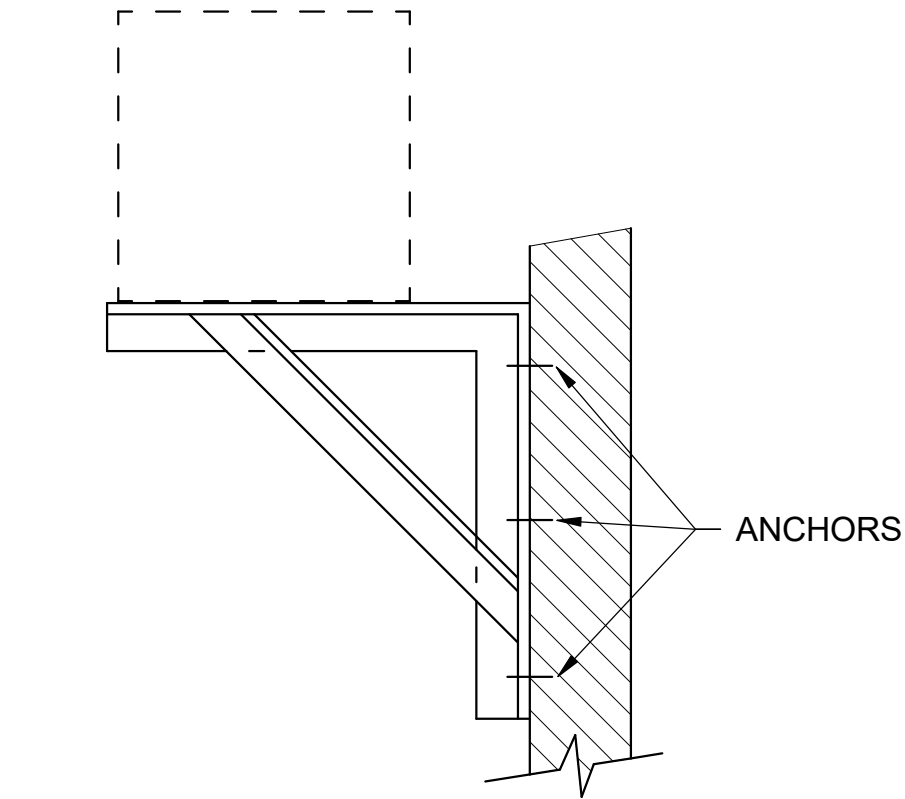
**FIG. A - SUGGESTED SIZING**

DUCT SIZE	BAND
18" x 12"	1 - 1/2" x 16" GA
24" x 20"	1" x 1/8"

DUCT GAGE
28, 26
24, 22, 20
18, 16

ALLOWABLE LOAD PER FASTENER*
25 LB
35 LB
50 LB

\* WELD, BOLT, OR NO. 8 SCREW (MIN.) DEVIATION PERMITTED BY OTHER ANALYSIS. X=1", Y=2"; ADD OTHER TO ACCOMMODATE LOAD. MINIMUM OF 3 ON 24" WIDTH AND UP. ADD ALONG SIDES NEAREST ANCHORS.



SEE KNEE BRACKET TABLES IN THE SMACNA ROUND INDUSTRIAL STANDARDS.

**FIG. B - SUGGESTED SIZING**

DUCT SIZE	ANGLE
30" x 12"	1" x 1" x 1/8"
36" x 18"	1" x 1" x 1/8"
42" x 24"	1-1/4" x 1-1/4" x 1/8"
48" x 30"	1-1/4" x 1-1/4" x 1/8"



Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

DESIGNED BY: S. THOMAS  
DRAWN BY: S. THOMAS  
CHECKED BY: J. LEDYARD  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

MECHANICAL  
DETAILS

**M-503**







1

2

3

4

5

D

C

B

A

DEDICATED OUTDOOR AIR SYSTEM DX COOLING AND ELECTRIC HEATING SCHEDULE

ID	LOCATION		BASIS OF DESIGN			TYPE	SUPPLY FAN DATA				DX COOLING COIL DATA					REFRIGERANT TYPE	HOT GAS REHEAT COIL DATA		PRIMARY HEAT PUMP DATA			SECONDARY HEAT DATA			FILTER	UNIT WEIGHT (LBS)	ELECTRICAL DATA			REMARKS
	NAME	NO.	MANUFACTURER	MODEL NO.	DESIGN AIRFLOW (CFM)		ESP (IN. WG.)	POWER EACH (HP)	RPM	TOTAL CAPACITY (BTUH)	SENSIBLE (BTUH)	LAT (db °F)	LAT (wb °F)	FACE VELOCITY (FPM)	CAPACITY (MBH)		LAT (db °F)	CAPACITY (BTUH)	EAT (db °F)	LAT (db °F)	CAPACITY (kW)	EAT (db °F)	LAT (db °F)	EFF (MERV)	VOLTAGE		NO. OF POLES			
DOAS-1	OUTSIDE	-	GREENHECK	RV-25-15A-1-F1	AIR SOURCE HEAT PUMP	2150	1.00	1	1150	192800	97700	52.0	52.0	173	R410A	59.200	77.5	123300.0	33.7	86.8	12.3	86.8	104.9	13	2652	208	3	ALL		
<div>REMARKS:</div> <div>1. PROVIDE MANUFACTURER'S MOTOR CONTROLLER.</div> <div>2. DISCONNECT PROVIDED BY ELECTRICAL.</div> <div>3. SINGLE POINT POWER.</div> <div>4. SHALL RUN CONTINUOUSLY WHILE BUILDING IS OCCUPIED.</div> <div>5. PROVIDE NEMA PREMIUM EFFICIENCY MOTOR.</div> <div>6. PROVIDE VIBRATION ISOLATION FOR FAN SECTION.</div> <div>7. PROVIDE INTEGRAL BASE RAIL FRAME, MINIMUM 4 INCH HEIGHT.</div> <div>8. PROVIDE MANUFACTURER'S STANDARD COIL DRAIN PAN IN COMPLIANCE WITH ASHRAE 62.1.</div> <div>9. UNIT CASING MUST BE DOUBLE WALL WITH INTERNAL INSULATION AND WITH MAXIMUM 1% LEAKAGE.</div> <div>10. PROVIDE FACTORY-APPLIED ANTI-CORROSION COATING ON CONDENSER COILS FOR SEACOAST ENVIRONMENT.</div> <div>11. PROVIDE MODULATING SILICON-CONTROLLED RECTIFIER (SCR) ELECTRIC HEATER CONTROL.</div> <div>12. PROVIDE UNIT WITH FACTORY WIRED MARINE LIGHTS AND SWITCH IN FAN SECTION.</div> <div>13. UNIT MUST BE HIGH-WIND RATED. PROVIDE BRACING CABLES DESIGNED FOR EXPOSURE CATEGORY AND BASIC WIND SPEEDS INDICATED IN PROJECT SPECIFICATIONS.</div> <div>14. PROVIDE SUPPLY DUCT SMOKE DETECTOR.</div> <div>15. FOR EQUIPMENT PROCURED ON OR AFTER JANUARY 1, 2025, THE SYSTEM REFRIGERANT MUST HAVE A GLOBAL WARMING POTENTIAL (GWP) LESS THAN OR EQUAL TO 700 IN ACCORDANCE WITH THE AMERICAN INNOVATION AND MANUFACTURING (AIM) ACT (ADOPTED DECEMBER 27, 2020) AS PART OF THE CODE OF FEDERAL REGULATIONS (CFR).</div> <div>16. PROVIDE MANUFACTURER'S LOCAL CONTROLS OPTION WITH 24 HOUR 7 DAY PROGRAMMABLE SPACE HUMIDITY AND TEMPURATURE SENSOR. ENSURE FULL UNITS FULL SEQUENCE OF OPERATIONS ARE AVAILABLE WITH LOCAL CONTROLS OPTION.</div>																														

LOUVER SCHEDULE

ID	LOCATION		BASIS OF DESIGN		SERVES	SYSTEM	MATERIAL	DESIGN AIRFLOW (CFM)	FREE AREA (SF)	FREE AREA VELOCITY (FPM)	MAX PRESSURE DROP (IN. WG.)	DIMENSIONS		UNIT WEIGHT (LBS)	REMARKS
	NAME	NO.	MANUFACTURER	MODEL NO.								WIDTH	HEIGHT		
L-1	APARTMENT	108	GREENHECK	ESD-635X	KITCHEN HOOD EXHAUST	EXHAUST	ALUMINUM	400	0.9	437	0.03	2' - 0"	1' - 4"	10	ALL
L-2	APARTMENT	116	GREENHECK	ESD-635X	KITCHEN HOOD EXHAUST	EXHAUST	ALUMINUM	400	0.9	437	0.03	2' - 0"	1' - 4"	10	ALL
<div>REMARKS:</div> <div>1. HURRICANE-RATED TYPE.</div> <div>2. AMCA 500-L LICENSED FOR AIR PERFORMANCE, WATER PENETRATION, AND WIND DRIVEN RAIN.</div> <div>3. AMCA 540 LICENSED FOR WIND-BORNE DEBRIS IMPACT RESISTANCE.</div> <div>4. AMCA 550 LICENSED FOR HIGH-VELOCITY WIND-DRIVEN RAIN RESISTANCE.</div> <div>5. FINISH TO BE SELECTED BY ARCHITECTURAL. PROVIDE MANUFACTURER'S COLOR WHEEL WITH SUBMITTAL PACKAGE.</div> <div>6. PROVIDE BIRDSCREEN. SCREEN MUST BE CONTAINED WITHIN A REMOVABLE FRAME.</div>															

AIR TERMINALS SCHEDULE

TAG	BASIS OF DESIGN		SYSTEM	DESCRIPTION	MOUNTING	FACE SIZE	MATERIAL	BORDER TYPE	FINISH COLOR	DESIGN NC	REMARKS
	MANUFACTURER	MODEL									
E1	TITUS	50F	EXHAUST	EGGCRATE GRILLE	CEILING	VARIES	ALUMINUM	LAY-IN	WHITE	25	ALL
S1	TITUS	TMS-AA	SUPPLY	THREE CONE DIFFUSER	CEILING	24" X 24"	ALUMINUM	LAY-IN	WHITE	25	ALL
S2	TITUS	XG-5500S-FRS	SUPPLY	THREE CONE DIFFUSER	CEILING	24" X 24"	ALUMINUM	LAY-IN	WHITE	25	ALL
T1	TITUS	50F	EXHAUST	EGGCRATE GRILLE	CEILING	VARIES	ALUMINUM	LAY-IN	WHITE	25	ALL
T2	TITUS	XG-7550DF-FRS	EXHAUST	EGGCRATE GRILLE	CEILING	VARIES	ALUMINUM	LAY-IN	WHITE	25	ALL
<div>REMARKS:</div> <div>1. WHERE COLOR LISTED IN AIR TERMINAL SCHEDULE CONFLICTS WITH COLOR LISTED IN INTERIOR DESIGN OR ARCHITECTURAL SHEETS, SPECIFICATION FROM INTERIOR DESIGNER OR ARCHITECT MUST TAKE PRECEDENCE.</div> <div>2. PROVIDE MOUNTING HARDWARE/FRAME FOR DIFFUSERS AND GRILLES TO MATCH CEILING TYPE.</div> <div>3. PROVIDE INLET DAMPER WITH REMOTE CABLE OPERATOR. LOCATE OPERATOR IN CEILING NEAR DIFFUSER.</div> <div>4. PROVIDE UL CLASSIFIED FIRE-RATED ASSEMBLY WITH INTEGRAL CEILING RADIATION DAMPER.</div>											

DEHUMIDIFIER SCHEDULE

ID	LOCATION		BASIS OF DESIGN		MAX OPERATING TEMP (°F)	AIRFLOW (CFM)	EXTRACTION AT 80°F / 60% RH (PPD)	EXTRACTION AT 73°F / 60% RH (PPD)	DIMENSIONS			UNIT WEIGHT (LBS)	ELECTRICAL DATA		REMARKS
	NAME	NO.	MANUFACTURER	MODEL NO.					LENGTH	WIDTH	HEIGHT		VOLTAGE	NO. OF POLES	
DH-1	LIVING ROOM	100	APRILAIRE	E130	140	310	130	105	2' - 6"	1' - 7"	1' - 6"	110	120	1	ALL
<div>REMARKS:</div> <div>1. DISCONNECT PROVIDED BY ELECTRICAL.</div> <div>2. PROVIDE MANUFACTURER'S STANDARD CONTROL FEATURES INCLUDING (BUT NOT LIMITED TO): ELECTRONIC DEFROST, ADJUSTABLE HUMIDISTAT, HOT GAS DEFROST SYSTEM.</div>															

ROOF HOOD SCHEDULE

ID	BASIS OF DESIGN		TYPE	AIRFLOW (CFM)	THROAT VELOCITY (FPM)	THROAT AREA (ft²)	MAX PD (IN. WG.)	DAMPER TYPE	DIMENSIONS				UNIT WEIGHT (LBS)	REMARKS
	MANUFACTURER	MODEL NO.							LENGTH	WIDTH	LENGTH	WIDTH		
RH-1	GREENHECK	FGR-10x10	EXHAUST	605	872	1.0	0.18	BACKDRAFT	2' - 3"	2' - 0"	1' - 4"	1' - 4"	37	ALL
<div>REMARKS:</div> <div>1. PROVIDE ROOF CURB TO MATCH ROOF SLOPE.</div> <div>2. PROVIDE BIRD SCREEN.</div> <div>3. PROVIDE INTEGRAL GRAVITY BACKDRAFT DAMPER.</div> <div>4. HIGH-WIND RATED ASSEMBLY.</div>														


3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: S. THOMAS  
DRAWN BY: S. THOMAS  
CHECKED BY: J. LEDYARD  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

SHEET TITLE

MECHANICAL  
SCHEDULES

SHEET NUMBER

M-602

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION

2/10/2025 11:09:55 AM BIM 360//1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_MEPP\_V21.rvt



2/7/2025 12:53:24 PM BIM 360://1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_MEFP\_V21.rvt

D

C

B




A

NOTE:

1. NOT ALL ABBREVIATIONS SHOWN WILL BE USED ON THIS PROJECT.

NOTES:

1. ALL EXISTING EQUIPMENT IS SHOWN IN THIN LINEWORK. ALL DEMOLISHED EQUIPMENT IS SHOWN IN BOLD LINEWORK, DASHED AND HATCHED. ALL NEW OR RELOCATED EQUIPMENT IS SHOWN IN BOLD LINEWORK. BELOW IS AN EXAMPLE OF EACH:

-  EXISTING EQUIPMENT
-  NEW OR RELOCATED EQUIPMENT
-  HATCH INDICATES EQUIPMENT TO BE DEMOLISHED

WIRE SIZE FOR ALL 120V, 20A CIRCUITS,UIO:

FOR ALL ONE-WAY CIRCUITS OF LENGTH LESS THAN 75 FT, PROVIDE 2#12 & 1#12G, 3/4"C.

FOR ALL ONE-WAY CIRCUITS OF LENGTH LESS THAN 125 FT AND GREATER THAN OR EQUAL TO 75 FT, PROVIDE 2#10 & 1# 10G, 3/4"C.

FOR ALL ONE-WAY CIRCUITS OF LENGTH LESS THAN 190 FT AND GREATER THAN OR EQUAL TO 125 FT, PROVIDE 2#8 & 1#8G, 3/4"C.

FOR ALL ONE-WAY CIRCUITS OF LENGTH LESS THAN 300 FT AND GREATER THAN OR EQUAL TO 190 FT, PROVIDE 2#6 & 1#6G, 3/4"C. PROVIDE CABLE REDUCING ADAPTER PRIOR TO TERMINATION INTO CIRCUIT BREAKER AS NECESSARY.

ELECTRICAL GENERAL NOTES

1. THE WORK MUST CONFORM WITH ALL REQUIREMENTS OF:  
A. NFPA 70-2020 (NATIONAL ELECTRICAL CODE) WITH AMENDMENTS  
B. INTERNATIONAL BUILDING CODE (IBC), 2021 AMENDMENTS  
C. INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2009  
D. APPLICABLE LOCAL CODES AND FEDERAL AND STATE LAWS.
2. MINIMUM RACEWAY SIZE MUST BE 3/4". INCREASE RACEWAY SIZE AS REQUIRED TO LIMIT RACEWAY FILL RATIO TO LESS THAN 40% FULL.
3. CONTRACTOR MUST COORDINATE WORK WITH OTHER TRADES AND MUST BE RESPONSIBLE FOR SECURING SPACE REQUIREMENTS FOR ELECTRICAL EQUIPMENT, CLEARANCE FOR RECESSED LUMINAIRES, AND CORRECT ROUGH-IN LOCATIONS OF ELECTRICAL CONNECTIONS.
4. CONTRACTOR MUST BE RESPONSIBLE FOR VERIFYING CATALOG NUMBERS ON THESE DRAWINGS TO MATCH WITH MATERIAL DESCRIPTIONS INDICATED.
5. VERIFY EXACT HEIGHT OF EACH COUNTERTOP AND BACKSPLASH ON ARCHITECTURAL DETAILS AND/OR CASE WORK SHOP DRAWINGS AND ADJUST SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS TO LOCATE BOTTOM OF OUTLET BOX 4" ABOVE TOP OF BACKSPLASH. IF NO BACKSPLASH IS USED, LOCATE BOTTOM OF OUTLET BOX 6" ABOVE COUNTERTOP.
6. VERIFY DOOR SWINGS WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING IN WALL SWITCHES. SWITCHES IN THE SAME LOCATION MUST BE GANGED TOGETHER IN ONE COMMON BACKBOX AND MUST HAVE ONE COMMON FACE PLATE.
7. ALL FEEDERS AND BRANCH CIRCUITS MUST INCLUDE A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR, SIZE PER NATIONAL ELECTRICAL CODE, OR AS SHOWN, CONNECTED TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD GROUND BUS. PROVIDE NEUTRAL CONDUCTORS AS INDICATED HEREIN. MULTIPLE BRANCH CIRCUITS IN ONE RACEWAY REQUIRE ONLY ONE EQUIPMENT GROUNDING CONDUCTOR.
8. VERIFY LUMINAIRE AND CEILING MOUNTED OCCUPANCY SENSOR LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS AND DIMENSIONS PRIOR TO INSTALLATION. VERIFY EXACT LOCATIONS OF MOTORS AND EQUIPMENT BEFORE ROUGHING-IN.
9. EXISTING ELECTRICAL WORK (NOT SHOWN) MUST REMAIN, UNLESS INDICATED OTHERWISE. SHOULD ANY EXISTING ELECTRICAL POWER, LIGHTING OR AUXILIARY CIRCUIT, FEEDER OR EQUIPMENT BE SEVERED, DISCONNECTED OR DEMOLISHED IN THE PROCESS OF CONSTRUCTION OR REMODELING WHICH IS DONE AS A RESULT OF CONTRACT PLANS AND SPECIFICATIONS, AND UNLESS SPECIFICALLY DESIGNATED BY THE DRAWINGS TO BE DEMOLISHED, THEN SAID CIRCUIT OR FEEDER MUST BE RESTORED TO WORKING CONDITION. THE RESTORATION MUST INCLUDE RE-ROUTING, RELOCATION, RECONNECTION OR REPLACEMENT AS MAY BE REQUIRED BY THE NEW WORK. ANY SUCH WORK REQUIRED MUST BE INCLUDED IN THE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
10. NEW WORK MUST BE MADE TO TIE INTO THE EXISTING IN A UNIFORM MANNER. SIMILAR ITEMS OF NEW WORK MUST BE CHECKED AGAINST EXISTING WORK FOR TYPE MOUNTING, MOUNTING HEIGHTS, ETC. ITEMS SHOWN IN NEW WORK AT VARIANCE FROM THE EXISTING MUST BE REFERRED TO THE ARCHITECT FOR DECISION BEFORE ROUGH-IN.
11. REFER TO ONE-LINE DIAGRAMS, SCHEDULES AND RISER DIAGRAMS FOR CONDUCTOR AND CONDUIT SIZES NOT SHOWN ON PLANS.
12. PROVIDE IS AN INCLUSIVE TERM USED TO DESCRIBE ASPECTS OF THE WORK THAT MUST BE ACCOMPLISHED, AND IS HEREBY DEFINED TO REQUIRE TO STORE, FURNISH, INSTALL, MOUNT, CONNECT, CONTROL AND POWER EQUIPMENT INDICATED, AS WELL AS ALL APPURTENANCES REQUIRED TO MAKE ELECTRICAL SYSTEMS OPERATE AS INDICATED WITHIN THESE DRAWINGS AND SPECIFICATIONS AND TO FULFILL THE SCOPE OF WORK.
13. DEMOLISH IS AN INCLUSIVE TERM USED TO DESCRIBE ASPECTS OF THE WORK THAT MUST BE ACCOMPLISHED, AND IS HEREBY DEFINED TO REQUIRE CONTRACTOR TO DISCONNECT EQUIPMENT FROM ALL CONNECTIONS, REMOVE FROM THE OWNER'S SITE, AND DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. COST OF DISPOSAL IS ENTIRELY THE CONTRACTOR'S RESPONSIBILITY.
14. ALL CONDUCTORS MUST BE COPPER UNLESS SPECIFICALLY NOTED AS ALUMINUM.
15. CONTRACTOR MUST FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE PROCUREMENT OF ANY MATERIALS AND DEVELOPMENT OF ANY SHOP DRAWINGS OR SUBMITTALS.
16. PROVIDE LABELS ON ALL RECEPTACLES, WALL MOUNTED LIGHT SWITCHES/OCCUPANCY SENSORS AND JUNCTION BOXES INDICATING THE SOURCE PANEL & CIRCUIT(S). HANDWRITTEN LABELS ARE NOT PERMITTED EXCEPT FOR JUNCTION BOXES LOCATED ABOVE FINISHED CEILING WHICH MAY BE HANDWRITTEN WITH AN INDELIBLE MARKER.
17. ALL EQUIPMENT PADS FOR INTERIOR ELECTRICAL EQUIPMENT MUST EXTEND 2" BEYOND THE FOOTPRINT OF THE EQUIPMENT. EQUIPMENT PADS FOR EXTERIOR ELECTRICAL EQUIPMENT MUST EXTEND 6" BEYOND THE FOOTPRINT OF THE EQUIPMENT.

ELECTRICAL ABBREVIATIONS

A or AMP	AMPERE(S)	HZ	HERTZ
AC	AIR COMPRESSOR or AIR CURTAIN or ALTERNATING CURRENT	IDS	INTRUSION DETECTION SYSTEM
ACC	AIR COOLED CHILLER	IMC	INTERMEDIATE METAL CONDUIT
AF	AMP FRAME	IRH	INFRARED HEATER
AFF	ABOVE FINISHED FLOOR	J OR JB	JUNCTION BOX
AFG	ABOVE FINISHED GRADE	K	KILO
AHU	AIR HANDLING UNIT	KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY
AIC	AMPERE INTERRUPTING CAPACITY	KCMIL	THOUSAND OF CIRCULAR MILS
AL	ALUMINUM	KEF	KITCHEN EXHAUST FAN
AM	AMMETER	KH	KITCHEN HOOD
ASYM	ASYMMETRICAL	KK	KIRK KEY INTERLOCK
AT	AMP TRIP	KV	KILOVOLT
ATS	AUTOMATIC TRANSFER SWITCH	KVA	KILOVOLT AMPERES
AUTO	AUTOMATIC	KVAR	KILOVOLT AMPERES REACTIVE
AWG	AMERICAN WIRE GAUGE	KW	KILOWATT
B	BOILER	KWHR	KILOWATT-HOUR
BC	BRANCH CONTROLLER	L	LENGTH
BCW	BARE COPPER WIRE	LA	LIGHTNING ARRESTOR
BFF	BELOW FINISHED FLOOR	LAN	LOCAL AREA NETWORK
BFG	BELOW FINISHED GRADE	LAV	LAVATORY
BLDG	BUILDING	LS	LONG TIME, SHORT TIME
C	CONDUIT	LSI	LONG TIME, SHORT TIME & INSTANTANEOUS
CAT	CATEGORY	LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS & GROUND FAULT
CB	CIRCUIT BREAKER	LTG	LIGHTING
CCT	CORRELATED COLOR TEMPERATURE	MAU	MAKE-UP AIR UNIT
CCTV	CLOSED CIRCUIT TELEVISION	MAX	MAXIMUM
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	MCA	MINIMUM CIRCUIT AMPACITY
CH	CHILLER	MCB	MAIN CIRCUIT BREAKER
CHWCP	CHILLED WATER CIRCULATING PUMP	MCC	MOTOR CONTROL CENTER
CHWP	CHILLED WATER PUMP	MGB	MAIN GROUND BAR
CHWSP	CHILLED WATER SUPPLY PUMP	MH	MANHOLE
CKT	CIRCUIT	MIN	MINIMUM
CMH	COMMUNICATIONS MANHOLE	MLO	MAIN LUGS ONLY
CP	CONDENSATE PUMP	MOD	MOTOR OPERATED DAMPER
CPT	CONTROL POWER TRANSFORMER	MRS	MOTOR RATED SWITCH
CRAC	COMPUTER ROOM AC UNIT	MT or MTD	MOUNT or MOUNTED
CRI	COLOR RENDERING INDEX	MTS	MANUAL TRANSFER SWITCH
CT	CURRENT TRANSFORMER or COOLING TOWER	N	NEUTRAL
CU	COPPER	N/A	NOT APPLICABLE
CWP	CONDENSER WATER PUMP	NC	NORMALLY CLOSED
D	DEPTH	NEC	NATIONAL ELECTRICAL CODE
DC	DIRECT CURRENT	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
DF	DESTRATIFICATION FAN	NESC	NATIONAL ELECTRICAL SAFETY CODE
DH	DUCT HEATER or DEHUMIDIFIER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
DHWCP	DOMESTIC HOT WATER CIRCULATING PUMP	NL	NIGHT LIGHT
DISC	DISCONNECT SWITCH	NO	NORMALLY OPEN
DOAS	DEDICATED OUTSIDE AIR SYSTEM	NTS	NOT TO SCALE
DPDT	DOUBLE POLE DOUBLE THROW	P	POLE(S) or PUMP
DPST	DOUBLE POLE SINGLE THROW	PA	PUBLIC ADDRESS
DSCU	DUCTLESS SPLIT CONDENSING UNIT	PDU	POWER DISTRIBUTION UNIT
DSHP	DUCTLESS SPLIT HEAT PUMP	PF	POWER FACTOR
DSS	DUCTLESS SPLIT SYSTEM (INDOOR UNIT)	PH	PHASE
DUH	DUCT UNIT HEATER	PIU	PRIMARY INDUCTION UNIT (VAV TERMINAL UNIT)
DWBP	DOMESTIC WATER BOOSTER PUMP	PMT	PAD MOUNTED TRANSFORMER
DX	DIRECT EXPANSION COOLING COIL	PNL	PANEL OR PANELBOARD
E or EMER	EMERGENCY	PTAC	PACKAGED THRU-WALL AIR CONDITIONER
EC	EMPTY CONDUIT	PVC	POLYVINYL CHLORIDE
EF	EXHAUST FAN	RECP	RECEPTACLE
ELEC	ELECTRICAL	RF	RETURN FAN
EMEW	EMERGENCY EYEWASH	RH	RADIANT HEATERS (ELECTRIC)
EMH	ELECTRICAL MANHOLE	RMC	RIGID METAL CONDUIT
EMSH	EMERGENCY SHOWER	RMS	ROOT MEAN SQUARE
EMT	ELECTRICAL METALLIC TUBING	RTU	ROOF TOP UNIT
EPA	EFFECTIVE PROJECTED AREA	RVNR	REDUCED VOLTAGE NON-REVERSING
EQUIP	EQUIPMENT	SA	SURGE ARRESTOR
ERU	ENERGY RECOVERY UNIT	SBB	SECONDARY BONDING BAR
ERV	ENERGY RECOVERY VENTILATOR	SCCR	SHORT CIRCUIT CURRENT RATING
ESEW	EMERGENCY SHOWER / EYEWASH	SD	SMOKE DAMPER
EUH	ELECTRIC UNIT HEATER	SF	SUPPLY FAN
EWC	ELECTRIC WATER COOLER	S/N	SOLID NEUTRAL
EWB	ELECTRIC WATER HEATER	SP	SUMP PUMP
EXISTING	EXISTING	SPD	SURGE PROTECTIVE DEVICE
EXP	EXPLOSION PROOF	SPDT	SINGLE POLE DOUBLE THROW
F	FUSE	SPEC	SPECIFICATIONS
FACP	FIRE ALARM CONTROL PANEL	SPST	SINGLE POLE SINGLE THROW
FCU	FAN COIL UNIT	SWBD	SWITCHBOARD
FLEX	FLEXIBLE	SWGR	SWITCHGEAR
FWE	FURNISHED WITH EQUIPMENT	TMGB	TELECOMMUNICATIONS MAIN GROUNDING
G or GND	GROUND		BUSBAR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TOL	THERMAL OVERLOAD
GUH	GAS UNIT HEATER	TP	TWISTED PAIR
GWH	GAS WATER HEATER	TYP	TYPICAL
H or HT	HEIGHT	U	URINAL
HAC	HEATED AIR CURTAIN	UG	UNDERGROUND
HOA	HAND-OFF AUTOMATIC	UH	UNIT HEATER
HP	HORSE POWER or HEAT PUMP	UIO	UNLESS INDICATED OTHERWISE
HT	HEAT TRACKING	UL	UNDERWRITERS LABORATORY
HVU	HEATING/VENTILATING UNIT	UTP	UNSHIELDED TWISTED PAIR
HWCP	HEATING WATER CIRCULATING PUMP	V	VOLTS
HWP	HEATING WATER PUMP	VA	VOLT AMPERES
HWRP	HOT WATER RECIRCULATION PUMP	VAR	VOLT AMPERES REACTIVE
HWSP	HEATING WATER SUPPLY PUMP	VAV	VAV TERMINAL UNIT
HWUH	HOT WATER UNIT HEATER	VEF	VEHICLE EXHAUST FAN
		VM	VOLTMETER
		VRF	VARIABLE REFRIGERANT FLOW SYSTEM
		W	WATTS or WIRE
		WC	WATER CLOSET
		WEF	WELDING EXHAUST FAN
		WH	WATER HEATER
		WHDM	WATTHOUR DEMAND METER
		WP	WEATHERPROOF
		WSHP	WATER SOURCE HEAT PUMP
		XFMR	TRANSFORMER
		Z	IMPEDANCE



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: J. REYES  
DRAWN BY: J. REYES  
CHECKED BY: J. WILLIAMS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

SHEET TITLE

ELECTRICAL  
GENERAL NOTES  
AND  
ABBREVIATIONS

SHEET NUMBER

E-001

ORIGINAL SHEET SIZE:  
24" X 36"






100% ISSUED FOR CONSTRUCTION


















































NOTE:






















1. NOT ALL SYMBOLS SHOWN WILL BE USED ON THIS PROJECT.

















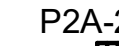










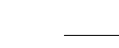



TELECOMMUNICATIONS LEGEND






































	<b>COMMUNICATIONS</b> COAXIAL CABLE TELEVISION OUTLET WALL MOUNTED 60" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	COMMUNICATIONS COMBINATION VOICE/DATA OUTLET MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	COMMUNICATIONS VOICE OUTLET MOUNT 48" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	COMMUNICATIONS DATA OUTLET, MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	WIRELESS ACCESS POINT

ELECTRICAL LEGEND

			LUMINAIRE AND OUTLET BOX. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
			LUMINAIRE AND OUTLET BOX WIRED FOR MULTILEVEL SWITCHING. LOWER CASE LETTER INDICATES SWITCHLEG DESTINATION.
			LUMINAIRE AND OUTLET BOX, WITH PROVISIONS FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
			WALL MOUNTED LUMINAIRE AND OUTLET BOX. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
			CEILING OR WALL MOUNTED EXIT SIGN AND OUTLET BOX. PROVIDE NUMBER OF ARROWS AND FACES INDICATED. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE. WALL MOUNT AT 96" ABOVE FINISHED FLOOR.
			RECESSED OR PENDANT MOUNTED LUMINAIRE AND OUTLET BOX. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
			WALL MOUNTED LUMINAIRE AND OUTLET BOX. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
			CEILING OR WALL MOUNTED LUMINAIRE AND OUTLET BOX WITH PROVISIONS FOR EMERGENCY LIGHTING. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
			EMERGENCY LIGHT UNIT. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
			REMOTE HEAD OR FLOOD LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
			WALL WASH DOWNLIGHT. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
			POLE MOUNTED LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
			POST-TOP OR BOLLARD LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
			MOTOR, HORSEPOWER AS INDICATED
			MOTORIZED DAMPER
			3-POLE COMBINATION MOTOR CONTROLLER/ DISCONNECT (POLES/FRAME SIZE/FUSE SIZE/NEMA ENCLOSURE) NF = NONFUSED
			DISCONNECT SWITCH, (FRAME SIZE/FUSE SIZE/POLES/NEMA ENCLOSURE) NF = NON-FUSED
			INDIVIDUALLY MOUNTED CIRCUIT BREAKER, (CIRCUIT BREAKER SIZE/ POLES/ NEMA ENCLOSURE)
			MOTOR CONTROLLER MOUNTED 48" AFF. UNLESS OTHERWISE NOTED.
			DRY TYPE TRANSFORMER
			SURFACE MOUNTED PANELBOARD. DASHED BOX INDICATES WORKING ACCESS REQUIRED BY CODE.
			RECESSED MOUNTED PANELBOARD. DASHED BOX INDICATES WORKING ACCESS REQUIRED BY CODE.
			DISTRIBUTION PANELBOARD. DASHED BOX INDICATES WORKING ACCESS REQUIRED BY CODE.
			EQUIPMENT AS INDICATED
			CEILING OR WALL MOUNTED JUNCTION BOX
			PULL OR JUNCTION BOX
			CEILING MOUNTED BLUE LIGHT SYSTEM ROTATING BEACON
			WHITE NOISE PLENUM SPEAKER; MOUNT ABOVE DROP CEILING
			CEILING FAN

	SIMPLEX RECEPTACLE NEMA 5-20R, MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE.
	DUPLEX RECEPTACLE NEMA 5-20R, MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT 6" ABOVE COUNTERTOP (TO BOTTOM OF DEVICE) OR 4" ABOVE BACKSPLASH (TO BOTTOM OF DEVICE)
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE NEMA 5-20R, MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE NEMA 5-20R, MOUNT 6" ABOVE COUNTERTOP (TO BOTTOM OF DEVICE) OR 4" ABOVE BACKSPLASH (TO BOTTOM OF DEVICE)
	DOUBLE-DUPLEX RECEPTACLE NEMA 5-20R, MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	SPLIT YOKE, DUPLEX RECEPTACLE NEMA 5-20R WITH ONE CONTROLLED AND ONE NON-CONTROLLED RECEPTACLE. MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE.
	SPLIT YOKE, DUPLEX RECEPTACLE NEMA 5-20R WITH ONE CONTROLLED AND ONE NON-CONTROLLED RECEPTACLE. MOUNT 6" ABOVE COUNTERTOP (TO BOTTOM OF DEVICE) OR 4" ABOVE BACKSPLASH (TO BOTTOM OF DEVICE)
	SPLIT YOKE, DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE NEMA 5-20R WITH ONE CONTROLLED AND ONE NON-CONTROLLED RECEPTACLE. MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	SPLIT YOKE, DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE NEMA 5-20R, WITH ONE CONTROLLED AND ONE NON-CONTROLLED RECEPTACLE. MOUNT OR 6" ABOVE COUNTERTOP (TO BOTTOM OF DEVICE) OR 4" ABOVE BACKSPLASH (TO BOTTOM OF DEVICE)
	DOUBLE-DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE, NEMA 5-20R, MOUNTED CONCEALED BEHIND ELECTRIC WATER COOLER
	FLOOR BOX WITH DUPLEX RECEPTACLE NEMA 5-20R. PROVIDE FIRE RATED POKE-THROUGH DEVICES ON ALL FLOORS ABOVE GROUND LEVEL.
	FLOOR RECEPTACLE NEMA 5-30R. PROVIDE FIRE RATED POKE-THROUGH DEVICES ON ALL FLOORS ABOVE GROUND LEVEL.
	SPECIAL RECEPTACLE, NEMA TYPE AS INDICATED. MOUNT 18" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	CEILING BOX WITH DUPLEX RECEPTACLE, NEMA 5-30R
	CEILING BOX WITH DUPLEX RECEPTACLE, NEMA 5-20R
	WP = IN-USE WEATHER PROOF TR = TAMPER RESISTANT TV = TELEVISION, MOUNT AT 60" ABOVE FINISHED FLOOR AFCI = ARC FAULT CIRCUIT INTERRUPTER M1 = PTAC (PACKAGED TERMINAL AIR CONDITIONER)
	FLOOR BOX SUITABLE FOR CONCRETE FLOOR POUR; TWO COMPARTMENTS - POWER AND TELECOMMUNICATIONS; FLUSH COVER/FLANGE WITH HINGED ACCESS TO RECEPTACLES AND JACKS RECESSED BELOW COVER IN FLOOR BOX. PROVIDE 8" FIRE RATED POKE-THROUGH ABOVE GROUND FLOOR.
	WALL SWITCH, AC TYPE, SPST, MOUNT 48" ABOVE FINISHED FLOOR
	WALL SWITCH, AC TYPE, DPDT, MOUNT 48" ABOVE FINISHED FLOOR
	3-WAY WALL SWITCH, MOUNT 48" ABOVE FINISHED FLOOR

	4-WAY WALL SWITCH, MOUNT 48" ABOVE FINISHED FLOOR
	SLIDE DIMMER, MOUNT 48" ABOVE FINISHED FLOOR
	MOTOR RATED DISCONNECT SWITCH WITH THERMAL OVERLOADS, SINGLE POLE SINGLE THROW, MOUNT ON UNIT, UNLESS INDICATED OTHERWISE.
	WALL MOUNTED, DUAL TECHNOLOGY OCCUPANCY SWITCH, MOUNT 48" ABOVE FINISHED FLOOR
	WALL MOUNTED, DUAL TECHNOLOGY VACANCY SWITCH, MOUNT 48" ABOVE FINISHED FLOOR
	LOW VOLTAGE ON/OFF WALL SWITCH, WALL MOUNT 48" ABOVE FINISHED FLOOR. PROVIDE DIMMER CONTROL WITH DIMMABLE FIXTURES INTEGRAL WITH SWITCH.
	BLUE LIGHT LOCAL CONTROL SWITCH; MOUNT 48" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE
	WHITE NOISE ROTARY VOLUME CONTROL; MOUNT 48" ABOVE FINISHED FLOOR, UNLESS INDICATED OTHERWISE.
	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
	CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR
	CEILING MOUNTED DAYLIGHT SENSOR
	PHOTOELECTRIC CELL
	<b>WIRING</b> CIRCUIT HOMERUN TO PANELBOARD. P2A-1,3,5, ADJACENT TO ARROW, INDICATES HOMERUN CIRCUITS 1, 3, AND 5 IN PANEL P2A. MARKS ACROSS RACEWAY INDICATE THE NUMBER OF PHASE CONDUCTORS AND NEUTRALS IN RACEWAY. NEUTRAL CONDUCTORS ARE INDICATED BY LONGER HASHMARKS. NO MARKS ACROSS RACEWAY INDICATES 2#12 CONDUCTORS AND 1#12 GROUND CONDUCTOR. CONDUCTOR SIZE #12 UNLESS INDICATED OTHERWISE.
	
	PANEL, BRANCH CIRCUIT AND WIRE SIZE (IF OTHER THAN #12)
	RECEPTACLE TYPE IF APPLICABLE (SEE SHEET E-002 - WIRING DEVICES)
	PANEL, BRANCH CIRCUIT AND WIRE SIZE (IF OTHER THAN #12)
	LUMINAIRE TYPE (SEE SHEET E-611)
	PANEL, BRANCH CIRCUIT AND WIRE SIZE (IF OTHER THAN #12)
	LUMINAIRE TYPE (SEE SHEET E-611)
	PANEL, BRANCH CIRCUIT AND WIRE SIZE (IF OTHER THAN #12)
	RACEWAY EXPOSED TO VIEW
	CONCEALED RACEWAY, LOCATED IN WALL OR ABOVE FINISHED CEILING
	UNDERGROUND RACEWAY. LOCATED BELOW GRADE OR CONCRETE SLAB
	FLEXIBLE RACEWAY
	RACEWAY TURNED TOWARD VIEWER
	RACEWAY TURNED AWAY FROM VIEWER
	RACEWAY TERMINATION, STUB-OUT AND CAP
	PLUG-IN BUSWAY, UNLESS INDICATED OTHERWISE
	SURFACE METAL RACEWAY OR MULTIOUTLET ASSEMBLY AS INDICATED
	LADDER TYPE CABLE TRAY (SIZE AS INDICATED ON PLAN)

	3/4" x 10'-0" COPPERCLAD GROUND ROD, 18" BELOW FINISHED GRADE
	GROUND ROD TEST WELL
	BARE COPPER GROUND CONDUCTOR, 1/0 UNLESS INDICATED OTHERWISE.
	4/0 BARE COPPER GROUND CONDUCTOR
	LIGHTNING PROTECTION SYSTEM AIR TERMINAL
	LIGHTNING PROTECTION ROOF CONDUCTOR
	ELECTRICAL CONNECTION
	<b>SITE</b>
	ELECTRICAL MANHOLE
	ELECTRICAL HANDHOLE
	PAD MOUNTED TRANSFORMER
	POWER POLE
	DOWN GUY AND ANCHOR (QUANTITY AS INDICATED)
	DUCTBANK, TEXT INDICATES QUANTITY AND SIZE OF DUCTS (I.E. 2W4" = TWO 4" DUCTS)
	<b>ONE-LINE</b>
	TRANSFORMER
	CURRENT TRANSFORMER
	FUSE
	ELECTRICAL CONNECTION
	CIRCUIT BREAKER
	SWITCH
	SURGE ARRESTORS
	SEPARABLE CONNECTION
	DRY TYPE TRANSFORMER, KVA AS INDICATED
	GROUND
	INDIVIDUALLY MOUNTED MOTOR STARTER OR VARIABLE FREQUENCY DRIVE, NEMA SIZE AS INDICATED
	FUSED DISCONNECT, FRAME, POLE AND FUSE SIZE AS INDICATED.
	
	INDIVIDUALLY MOUNTED CIRCUIT BREAKER, TRIP AND POLE SIZE AS INDICATED.
	<b>SCHEMATIC</b>
	PILOT LIGHT (G=GREEN, R=RED, Y=AMBER)
	CONTROL RELAY COIL
	SHUNT TRIP COIL
	TIME DELAY RELAY COIL
	MOTOR STARTER COIL
	METER
	ELECTRONIC METER



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: J. REYES  
DRAWN BY: J. REYES  
CHECKED BY: J. WILLIAMS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

SHEET TITLE

ELECTRICAL  
LEGEND

SHEET NUMBER

E-002

ORIGINAL SHEET SIZE:  
24" X 36"



SHEET NOTES

- 1. REFER TO SHEETS E-001 AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
- 2. REFER TO SHEET E-611 FOR LUMINAIRE SCHEDULE.
- 3. ALL ELECTRICAL CONDUITS ABOVE CEILING SHALL BE RMC WITH STAINLESS FASTENERS.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: J. REYES  
DRAWN BY: J. REYES  
CHECKED BY: J. WILLIAMS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

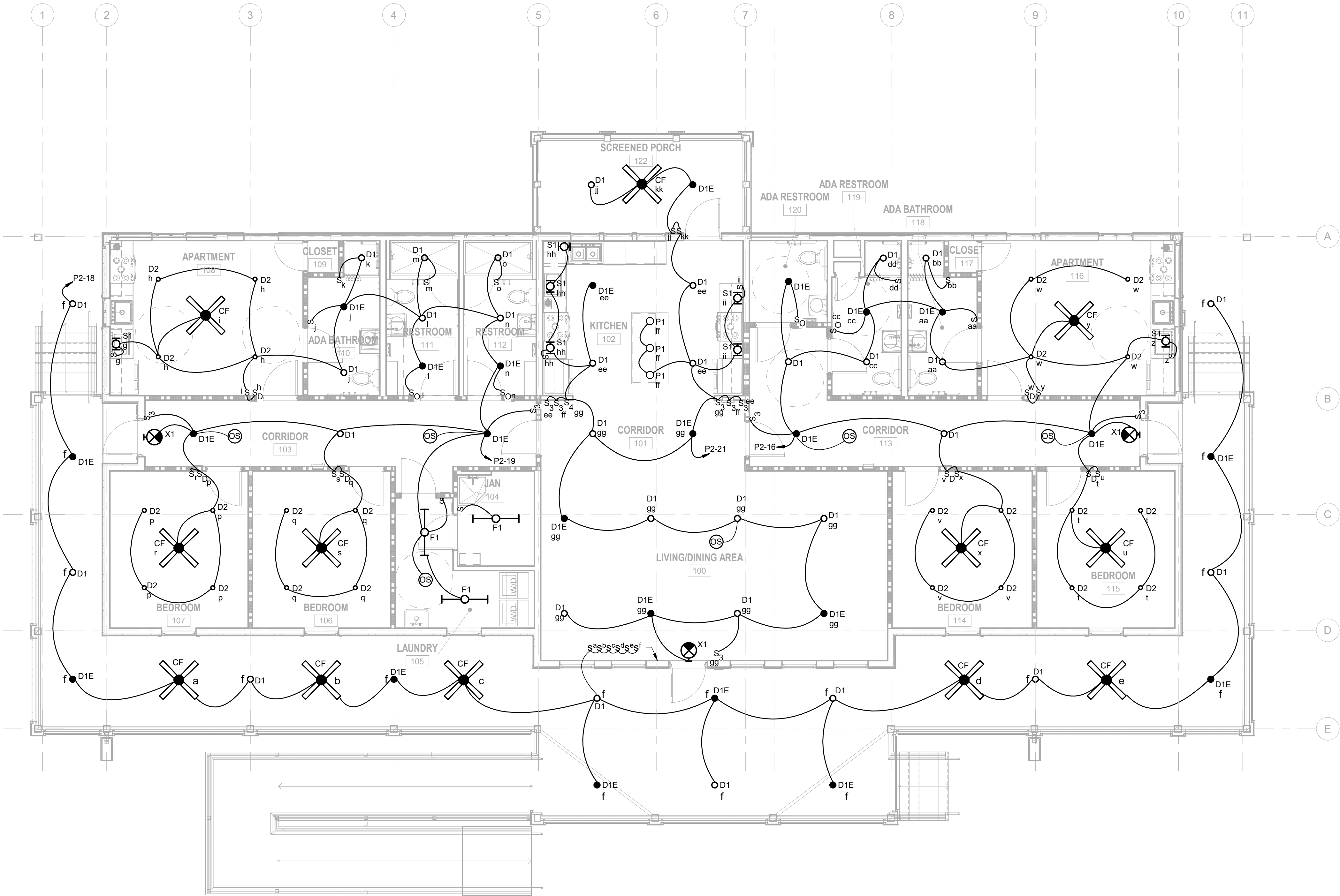
SHEET TITLE

LIGHTING PLAN

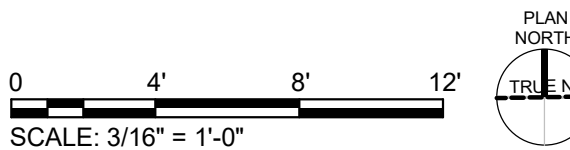
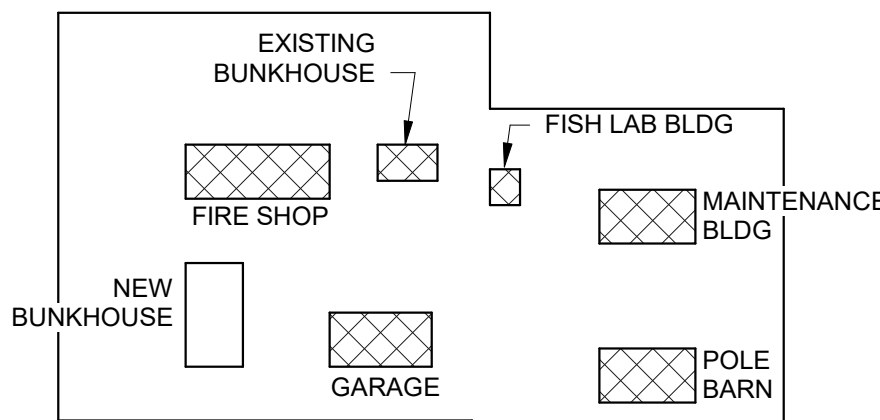
SHEET NUMBER

E-101

ORIGINAL SHEET SIZE:  
24" X 36"



A1 LIGHTING PLAN  
SCALE: 3/16" = 1'-0"



100% ISSUED FOR CONSTRUCTION



## SHEET NOTES

- REFER TO SHEETS E-001 AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
- REFER TO SHEET E-611 FOR LUMINAIRE SCHEDULE.
- ALL ELECTRICAL CONDUITS IN ATTIC SPACE SHALL BE RMC WITH STAINLESS FASTENERS.

## # KEYNOTES

- 3/4" THICK PLYWOOD SHEATHING. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
- MOUNT LUMINAIRE TO THE BOTTOM OF ROOF TRUSS. COORDINATE EXACT LOCATION IN THE FIELD.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

## CLIENT INFORMATION



US Fish & Wildlife Service

## PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

## DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: Designer  
DRAWN BY: Author  
CHECKED BY: Checker  
SUBMITTED BY: Approver  
DATE: 02/12/2024  
PROJECT #: 1220834

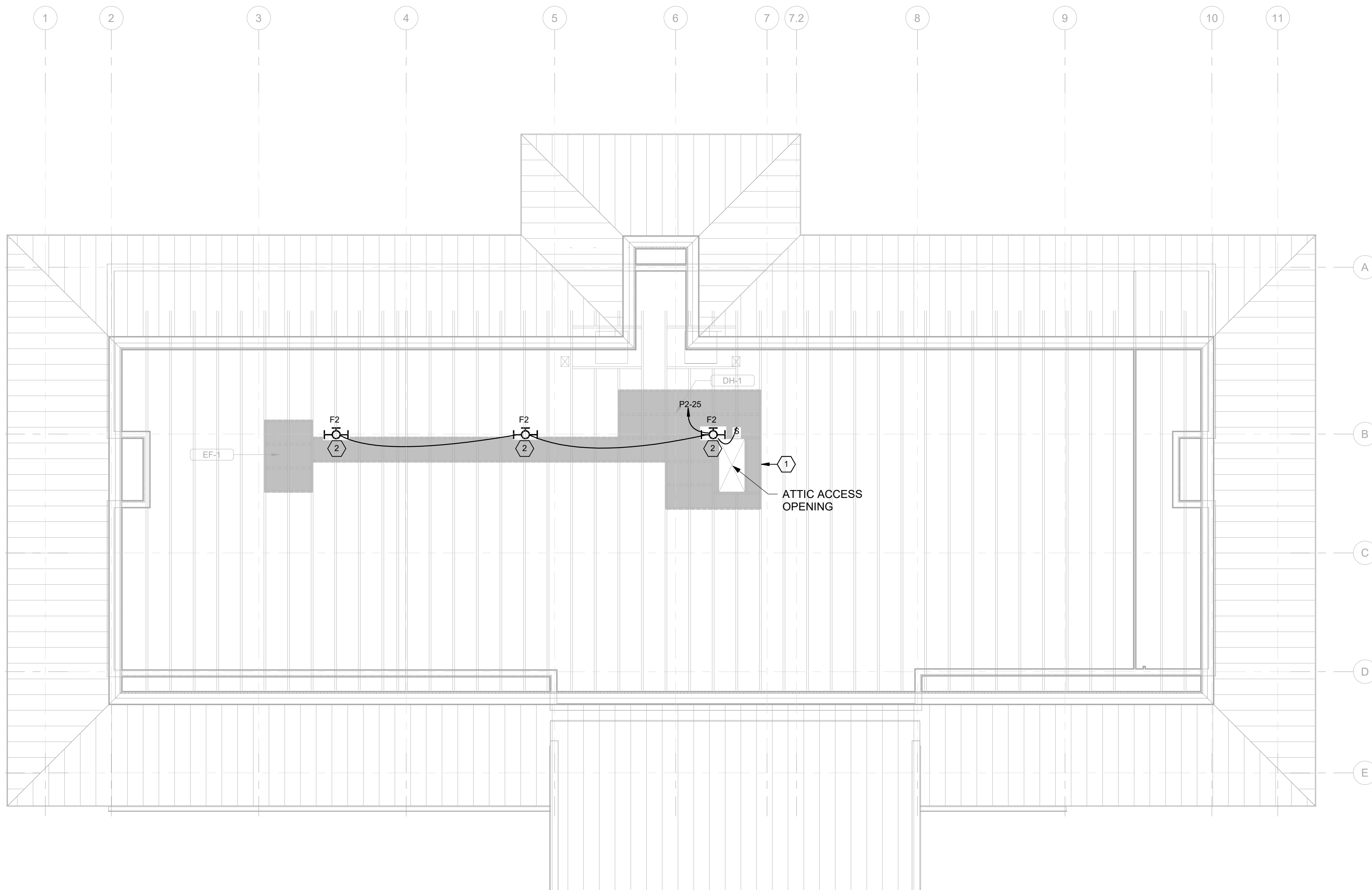
## SHEET TITLE

LIGHTING PLAN -  
ATTIC

## SHEET NUMBER

E-102

ORIGINAL SHEET SIZE:  
24" X 36"



A1 LIGHTING PLAN - ATTIC  
SCALE: 3/16" = 1'-0"

0 4' 8' 12'  
SCALE: 3/16" = 1'-0"

100% ISSUED FOR CONSTRUCTION



## SHEET NOTES

1. REFER TO SHEETS E-001 AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
2. REFER TO SHEET E-601 FOR ELECTRICAL SCHEDULES AND ONE-LINE DIAGRAM.
3. COORDINATE WITH ARCHITECTURAL DRAWINGS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF EQUIPMENT.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEVICES NEEDING PRECISE INSTALLATION.
5. ALL BUILDING EXTERIOR ELECTRICAL CONDUITS SHALL BE RMC WITH STAINLESS FASTENERS.
6. REFER TO INFORMATION RESOURCES AND TECHNOLOGY MANAGEMENT (IRTM) FOR TELECOMMUNICATIONS REQUIREMENTS FOR FWS AGENCY SPECIFIC REQUIREMENTS FOR IT INFRASTRUCTURE.

## # KEYNOTES

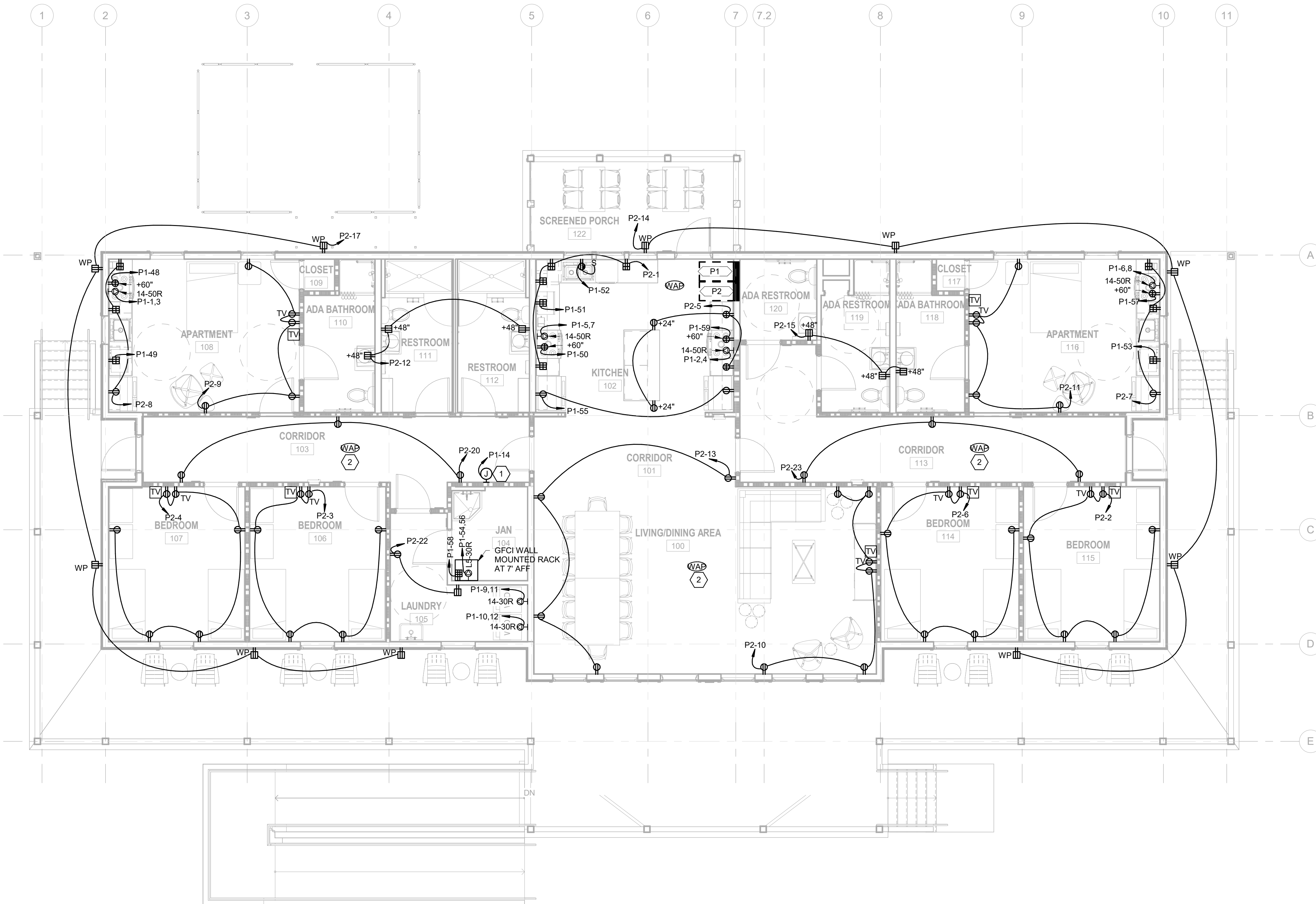
1. PROVIDE JUNCTION BOX FOR ELECTRICAL CONNECTION TO FIRE ALARM CONTROL PANEL. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH EQUIPMENT SUPPLIER.
2. PROVIDE (2) CAT6A CABLE FOR DATA CONNECTION TO GFCI WIRELESS ACCESS POINT.

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

DESIGNED BY: J. REYES  
DRAWN BY: J. REYES  
CHECKED BY: J. WILLIAMS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

POWER PLAN

E-111





1

2

3

4

5

SHEET NOTES

- 1. REFER TO SHEETS E-001 AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
- 2. REFER TO SHEET E-611 FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE.

# KEYNOTES

- 1. MOUNT DISCONNECT ON/ADJACENT TO EQUIPMENT SERVED. LOCATE DISCONNECT TO PROVIDE CLEARANCE AND ACCESS AS REQUIRED BY THE NEC.
- 2. PROVIDE JUNCTION BOX FOR ELECTRICAL CONNECTION TO HEAT TRACING SYSTEM. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH EQUIPMENT VENDOR.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: J. REYES  
DRAWN BY: J. REYES  
CHECKED BY: J. WILLIAMS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

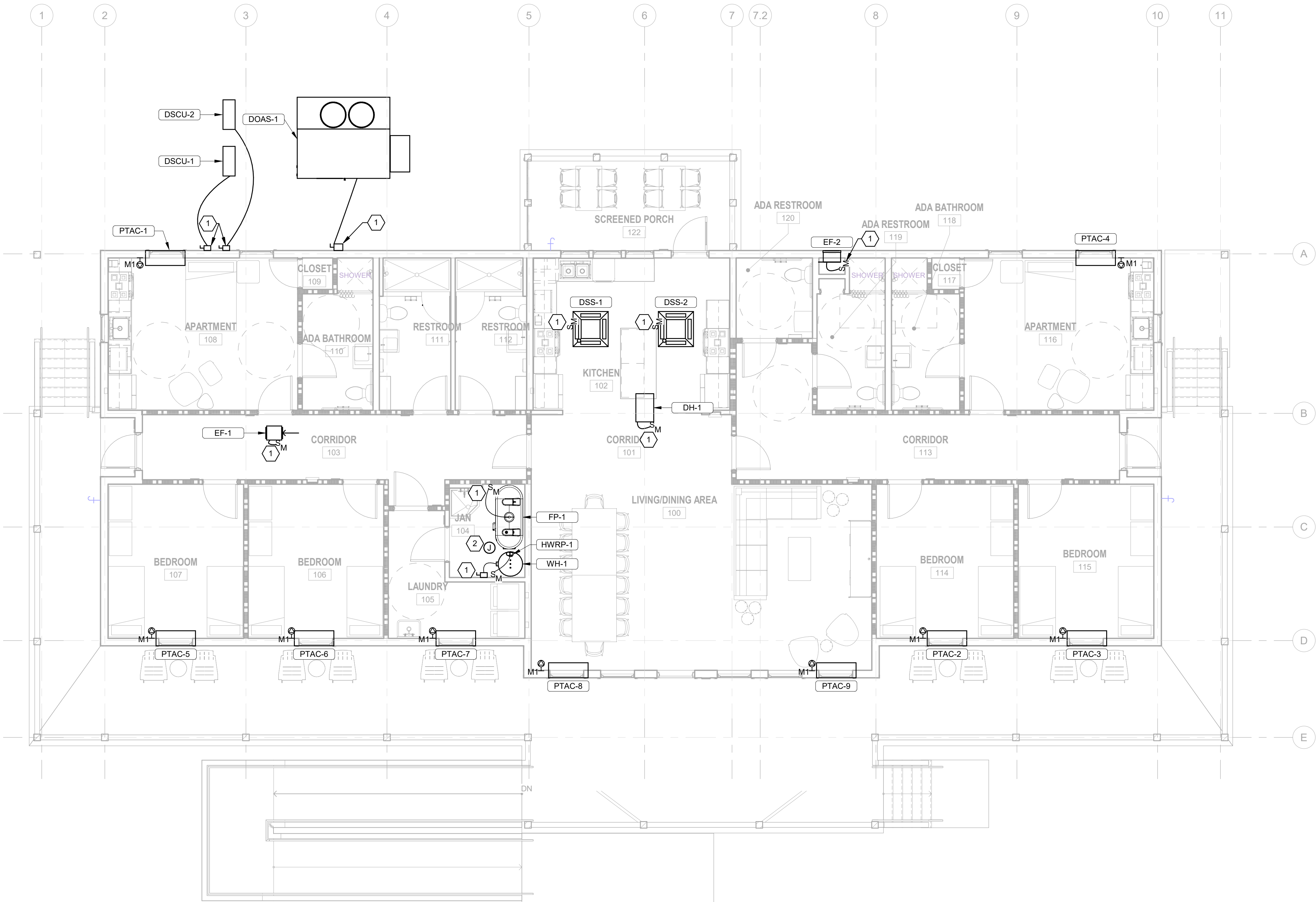
SHEET TITLE

MECHANICAL  
EQUIPMENT  
POWER PLAN

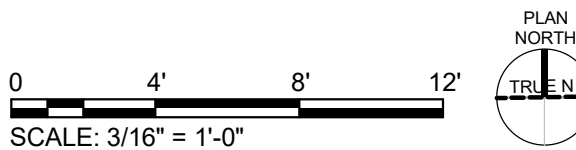
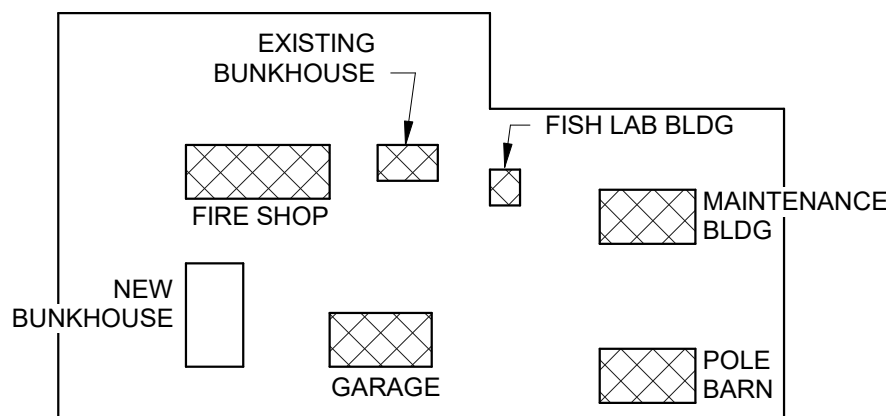
SHEET NUMBER

E-121

ORIGINAL SHEET SIZE:  
24" X 36"



**A1 MECHANICAL EQUIPMENT POWER PLAN**  
SCALE: 3/16" = 1'-0"



100% ISSUED FOR CONSTRUCTION



SHEET NOTES

1. REFER TO SHEETS E-001 AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS AND LEGEND.
2. REFER TO SHEET E-601 FOR ELECTRICAL SCHEDULES AND ONE-LINE DIAGRAM.
3. COORDINATE WITH ARCHITECTURAL DRAWINGS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF EQUIPMENT.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DEVICES NEEDING PRECISE INSTALLATION.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: J. REYES  
DRAWN BY: J. REYES  
CHECKED BY: J. WILLIAMS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

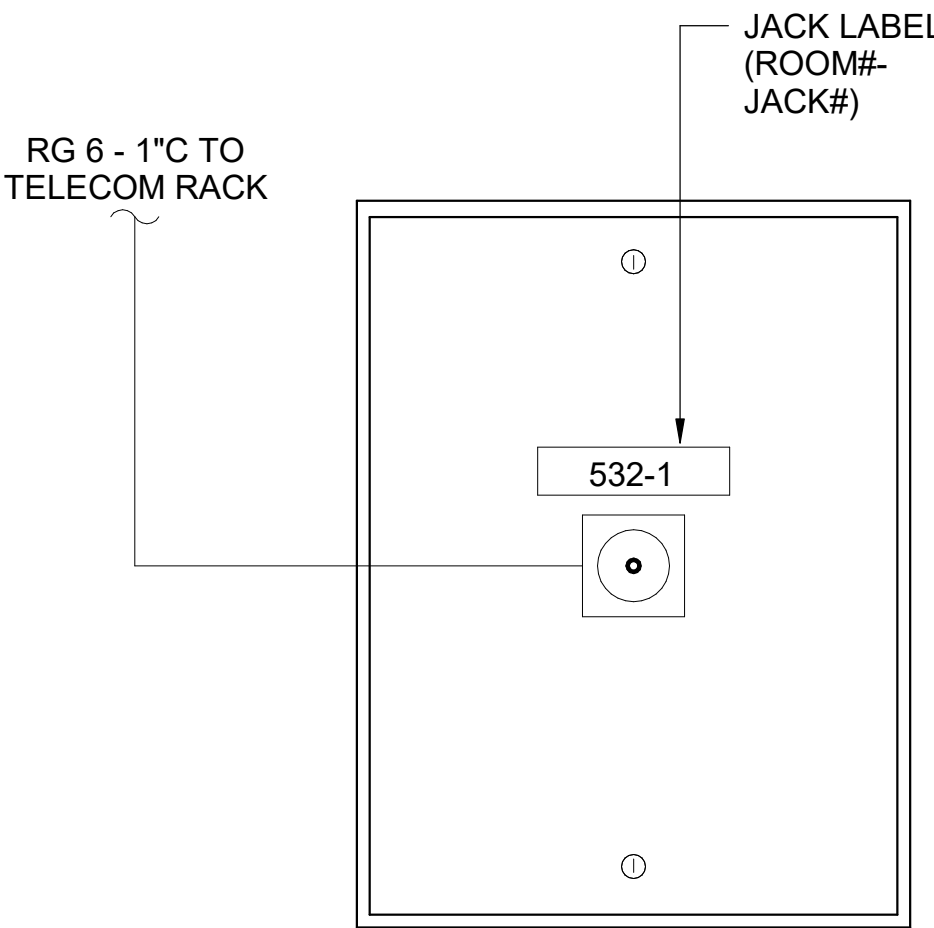
SHEET TITLE

ELECTRICAL  
DETAILS

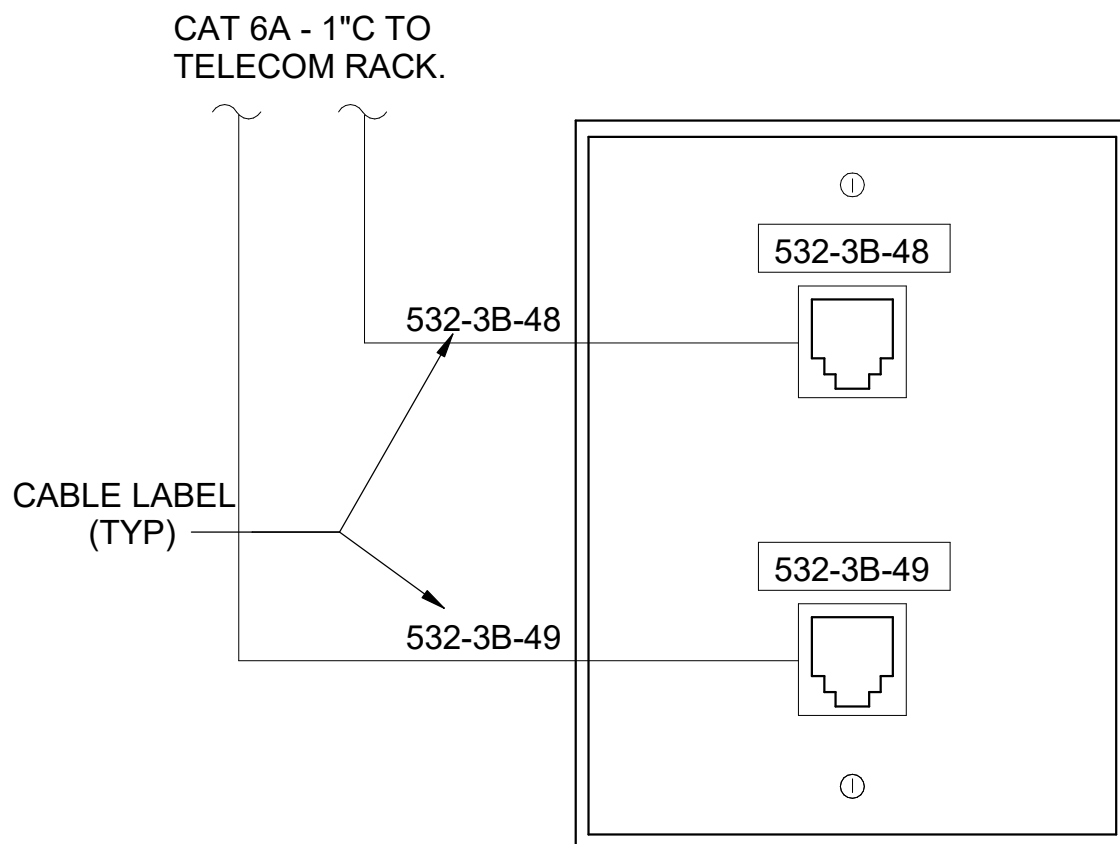
SHEET NUMBER

E-501

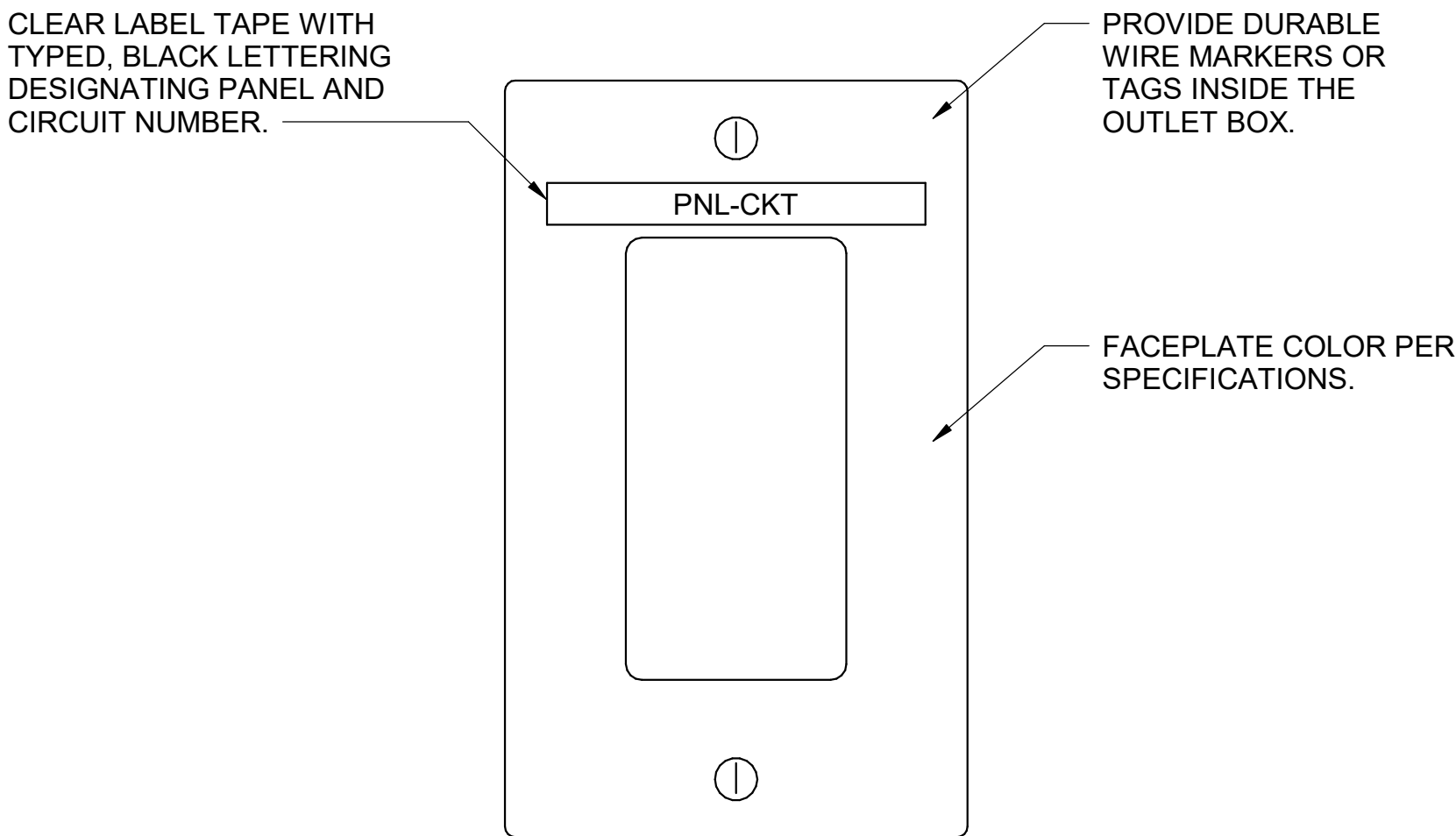
ORIGINAL SHEET SIZE:  
24" X 36"



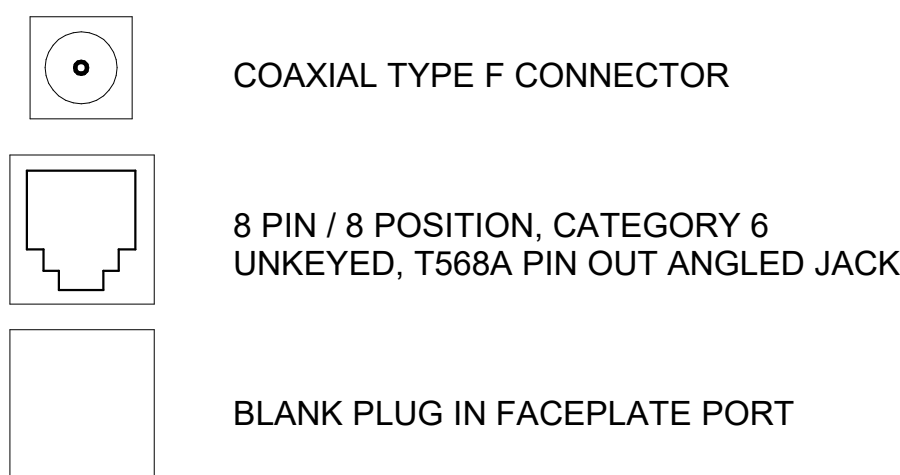
C4 TYPICAL TV OUTLET  
SCALE: N.T.S.



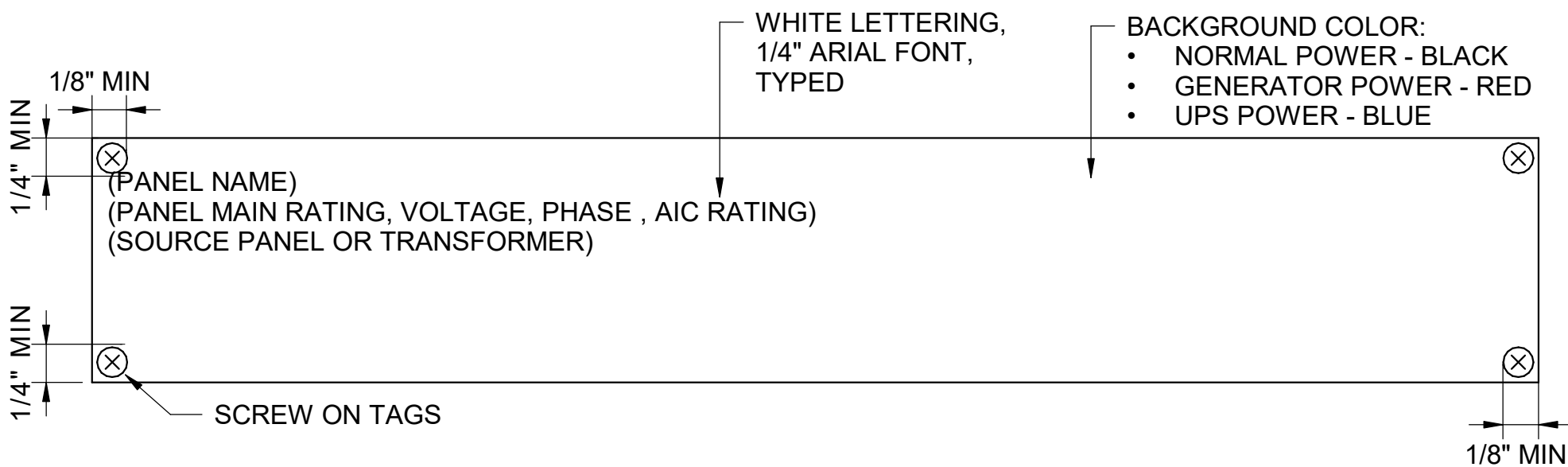
B4 TYPICAL VOICE OR DATA OUTLET  
SCALE: N.T.S.



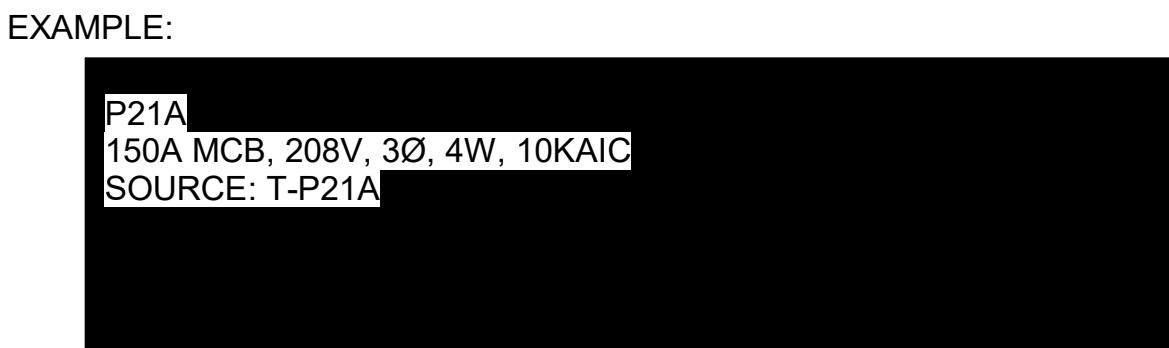
C3 LIGHT SWITCH DETAIL (TYP)  
SCALE: N.T.S.



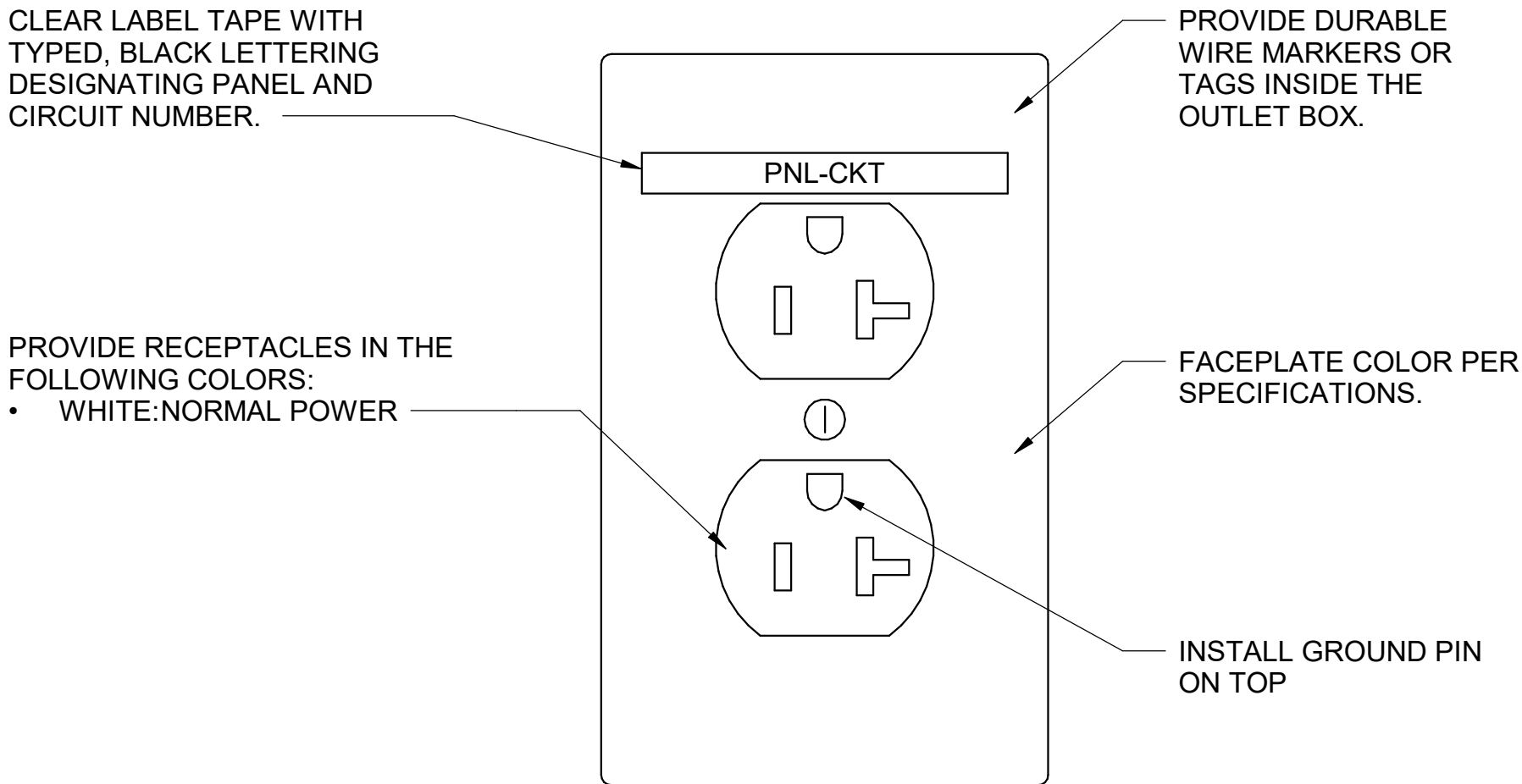
B3 JACK TYPES  
SCALE: N.T.S.



A3 PANELBOARD LABEL  
SCALE: 12" = 1'-0"

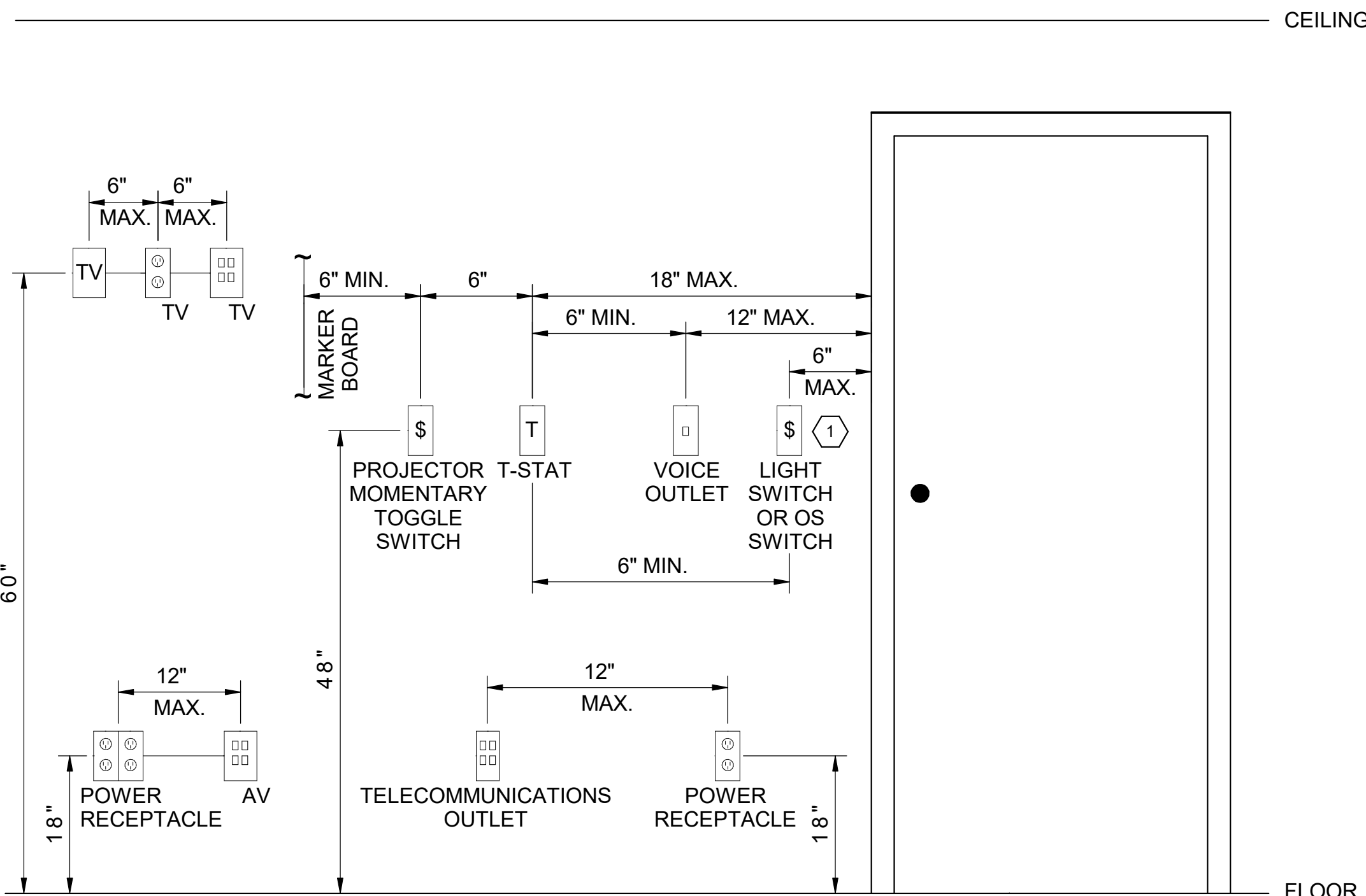


EXAMPLE:



C1 RECEPTACLE DETAIL (TYP)  
SCALE: N.T.S.

- NOTES:
1. RECEPTACLES MARKED AS CONTROLLED SHALL BE SPLIT YOKE WITH THE CONTROLLED RECEPTACLE INSTALLED ABOVE THE NON-CONTROLLED RECEPTACLE.



- KEYNOTE:
1. ELECTRICAL CONTRACTOR TO SHIFT LIGHT SWITCH IF SOLID FRAMING IS ENCOUNTERED NEXT TO THE OPENING.

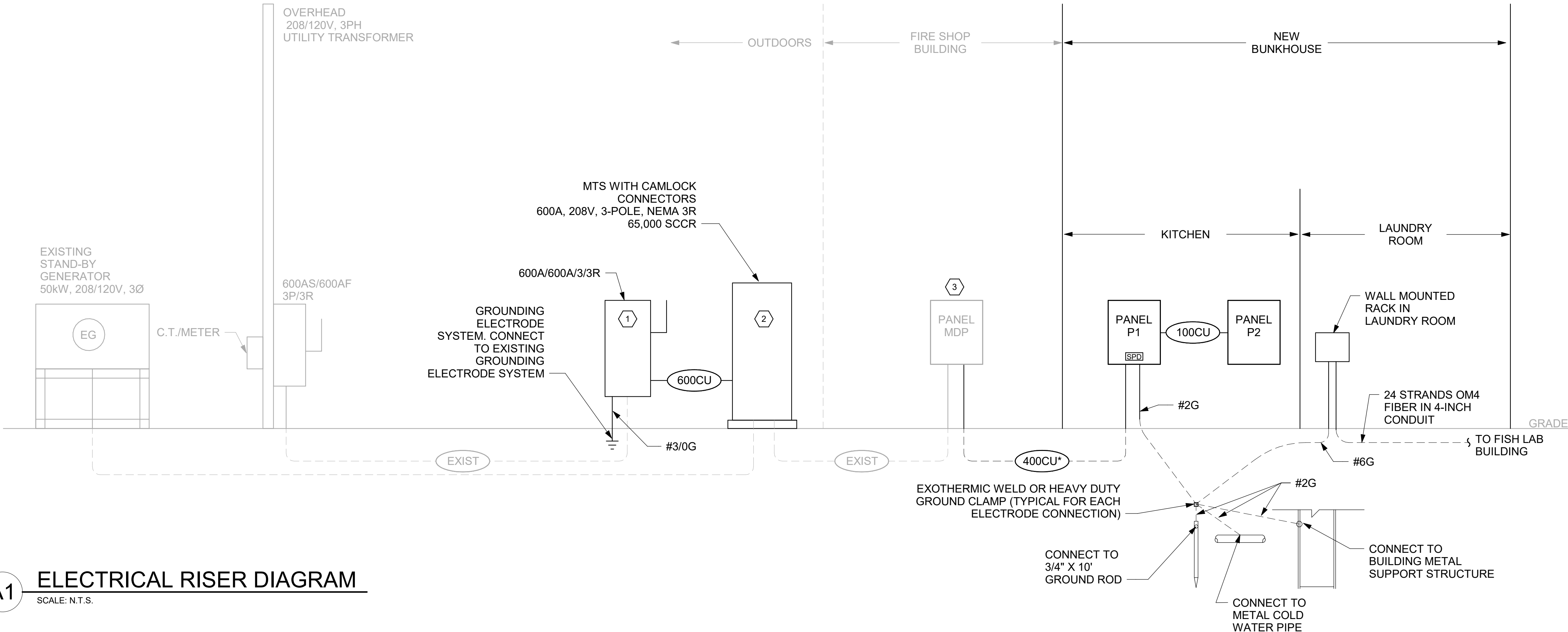
A1 MOUNTING HEIGHT DETAIL  
SCALE: N.T.S.



FEEDER SCHEDULE	
FEEDER TAG	COPPER FEEDER
20CU	4#12 & 1#12G, 3/4"C.
25CU	4#10 & 1#10G, 3/4"C.
30CU	4#10 & 1#10G, 3/4"C.
35CU	4#8 & 1#10G, 1"C.
40CU	4#8 & 1#10G, 1"C.
45CU	4#6 & 1#10G, 1"C.
50CU	4#6 & 1#10G, 1"C.
60CU	4#4 & 1#10G, 1-1/2"C.
70CU	4#4 & 1#8G, 1-1/2"C.
80CU	4#2 & 1#8G, 1-1/2"C.
90CU	4#2 & 1#8G, 1-1/2"C.
100CU	4#1 & 1#8G, 2"C.
110CU	4#1 & 1#6G, 2"C.
125CU	4#1/0 & 1#6G, 2"C.
150CU	4#1/0 & 1#6G, 2"C.
175CU	4#2/0 & 1#6G, 2"C.
200CU	4#3/0 & 1#6G, 3"C.
225CU	4#4/0 & 1#4G, 3"C.
250CU	4-250 KCMIL & 1#4G, 3"C.
300CU	4-350 KCMIL & 1#4G, 3"C.

FEEDER SCHEDULE	
FEEDER TAG	COPPER FEEDER
350CU	4-500 KCMIL & 1#2G, 4"C.
400CU	4-500 KCMIL & 1#2G, 4"C.
400CU*	TWO 3-INCH CONDUITS, EACH WITH FOUR 350 KCMIL AND ONE #1G
450CU	TWO 3-INCH CONDUITS, EACH WITH FOUR 4/0 AND ONE #2G
500CU	TWO 3-INCH CONDUITS, EACH WITH FOUR 250 KCMIL AND ONE #2G
600CU	TWO 3-INCH CONDUITS, EACH WITH FOUR 350 KCMIL AND ONE #1G
700CU	TWO 4-INCH CONDUITS, EACH WITH FOUR 500 KCMIL AND ONE 1/0G
800CU	TWO 4-INCH CONDUITS, EACH WITH FOUR 500 KCMIL AND ONE 1/0G
1000CU	THREE 4-INCH CONDUITS, EACH WITH FOUR 500 KCMIL AND ONE 2/0G
1200CU	FOUR 3-INCH CONDUITS, EACH WITH FOUR 350 KCMIL AND ONE 3/0G
1600CU	FIVE 4-INCH CONDUITS, EACH WITH FOUR 500 KCMIL AND ONE 4/0G
2000CU	SIX 4-INCH CONDUITS, EACH WITH FOUR 500 KCMIL AND ONE 250KCMIL G
EXIST	THREE 3-INCH CONDUITS, EACH WITH FOUR 350 KCMIL AND ONE #1/0G

- NOTES:
- FEEDER TAGS WITH A "\*" IN THE TAG HAVE BEEN INCREASED IN SIZE TO ACCOUNT FOR VOLTAGE DROP.
  - COORDINATE PANEL LUG SIZE AND QUANTITIES WITH THE SPECIFIED CONDUCTOR SIZES AND NUMBER OF PARALLEL RUNS AS APPLICABLE. LUG SIZES AND QUANTITIES MUST ACCOUNT FOR CONDUCTORS THAT WERE INCREASED IN SIZE AND/OR PARALLEL RUNS ADDED TO ACCOUNT FOR VOLTAGE DROP.
  - ALUMINUM CONDUCTORS ARE NOT PERMITTED TO BE USED FOR MECHANICAL EQUIPMENT OR ANY OTHER EQUIPMENT REQUIRING FLEXIBLE CONNECTIONS.



**A1 ELECTRICAL RISER DIAGRAM**  
SCALE: N.T.S.

- SHEET NOTES**
- REFER TO SHEETS E-001 AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND LEGEND.
  - ENSURE THAT ARC-FAULT CIRCUIT INTERRUPTERS (AFCIs) ARE INSTALLED AND LISTED PER NFPA 70, SECTION 210.12, SPECIFICALLY 210.12(B) THROUGH (E). THE AFCIs SHALL BE LISTED AND INSTALLED IN A READILY ACCESSIBLE LOCATION.

- # KEYNOTES**
- REPLACE EXISTING 800A DISCONNECT WITH NEW 600A DISCONNECT AS INDICATED.
  - REPLACE EXISTING 800A MTS WITH NEW 600A MTS AS INDICATED.
  - CONTRACTOR SHALL PERFORM A 30-DAY LOAD STUDY ON EXISTING PANEL MDP USING A RECORDING AMMETER OR POWER METER CONNECTED TO THE HIGHEST LOADED PHASE OF THE FEEDER. THE RECORDING SHALL REFLECT THE MAXIMUM DEMAND OF THE FEEDER WHEN THE BUILDING IS OCCUPIED. CONTRACTOR SHALL PROVIDE THE RESULTS OF THE STUDY TO THE ENGINEER IMMEDIATELY UPON COMPLETION FOR ANALYSIS.

**POND**  
3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092  
Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

**CLIENT INFORMATION**  
  
U.S. Fish & Wildlife Service

**PROJECT NAME**  
Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

**DRAWING ISSUE**  
DATE

**DESCRIPTION**

**MARK**

DESIGNED BY: J. REYES  
DRAWN BY: J. REYES  
CHECKED BY: J. WILLIAMS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

**SHEET TITLE**  
ELECTRICAL  
FEEDER  
SCHEDULE AND  
ONE-LINE  
DIAGRAM

**SHEET NUMBER**  
E-601

ORIGINAL SHEET SIZE:  
24" X 36"



2/7/2025 12:53:28 PM BIM 360://1220834 Cameron Prairie NWR/1220834\_Cameron NWR\_Bunkhouse\_MEFP\_V21.rvt

D

C

B

A

1

2

3

4

5

SHEET NOTES

1. REFER TO SHEETS E-001 AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND LEGEND.

LUMINAIRE SCHEDULE										
FIXTURE	DESCRIPTION	LAMP	LUMENS	CRI	CCT	VOLTAGE	WATTAGE	MOUNTING	MANUFACTURER	NOTES
CF	52" CEILING FAN WITH LIGHT KIT.	LED	1600			120	100 W	FLUSH MOUNT	GENERATION LIGHTING DISCUS 52-IN MATTE BLACK INTEGRATED LED INDOOR/OUTDOOR DOWNROD OR FLUSH MOUNT WITH LIGHT (5-BLADE)	1
D1	6" RECESSED DOWNLIGHT, WET RATED, WHITE FINISH	LED	850	80	3500	120	14 W	RECESSED	LITHONIA LDN6 6" DOWNLIGHT	1,2
D1E	6" RECESSED DOWNLIGHT WITH EMERGENCY BATTERY PACK, WET RATED, WHITE FINISH	LED	850	80	3500	120	14 W	RECESSED	LITHONIA LDN6 6" DOWNLIGHT	1,2,3
D2	4" RECESSED FIRE RATED DOWNLIGHT, WHITE FINISH, DIMMABLE	LED	700	90	3500	120	10 W	RECESSED	JUNO FIREWALL LED DOWNLIGHT SERIES 4" FIRE RATED INTERNALLY	1,2
F1	4' LINEAR STRIP, ACRYLIC ROUND DIFFUSER, WHITE FINISH.	LED	2500	80	3500	120	22 W	SURFACE MOUNT	LITHONIA ZL1D STRIPLIGHT	1,2
F2	2' LINEAR STRIP, ACRYLIC ROUND DIFFUSER, WHITE FINISH.	LED	1500	80	3500	120	17 W	SURFACE MOUNT	LITHONIA ZL1D STRIPLIGHT	1
P1	6" LED PENDANT DOWNLIGHT, WHITE FINISH	LED	1600	90	3000	120	19 W	PENDANT	WAC LIGHTING AMELIA MINI PENDANT SCOTT ARCHITECTURAL LIGHTING METEOR	1,2
S1	12" STRIP LIGHT, WHITE FINISH	LED	520	80	3000	120	4 W	SURFACE MOUNT	SHELF LIGHTING	1
X1	DECORATIVE EDGE LIT ACRYLIC PANEL EXIT SIGN WITH RED LETTERS AND MIRROR BACKGROUND, UNIVERSAL ARROWS.	LED				120	5 W	CEILING, WALL	LIGHTALARMS DUAL-LITE LITHONIA	1,2,3

NOTES:

1. DESIGN BASIS SHOWN FOR REFERENCE ONLY. FIXTURES OF EQUAL QUALITY AND PERFORMANCE ARE ACCEPTABLE. ALL FIXTURES MUST BE EQUAL IN MATERIAL, QUALITY, WARRANTY, PHOTOMETRIC, SIZE AND FINISH.
2. VERIFY CEILING TYPES WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING.
3. WIRE ALL EXIT SIGNS AND EMERGENCY BATTERY PACKS IN EMERGNECY LUMINAIRES AHEAD OF ALL LOCAL LIGHTING CONTROL DEVICES.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE												
UNIT	VOLTAGE	NUMBER OF POLES	KVA	MCA	DISCONNECT	BRANCH CIRCUIT FEEDER SIZE	PANEL	CIRCUIT	LOCATION		NOTES	
									NUMBER	NAME		
DH-1	120 V	1	0.80 kVA	8.3 A	MRS	2#12 & 1#12G ~ 3/4" C	P1	42	100	LIVING ROOM	2	
DOAS-1	208 V	3	22.70 kVA	76.0 A	100/80/3/3R	3#2 & 1#8G, 1"C.	P1	28,30,32	-	OUTSIDE	2	
DSCU-1	208 V	2	3.20 kVA	19.0 A	30/30/2//3R	2#10 & 1#10G ~ 3/4" C	P1	34,36	-	OUTSIDE	1,2	
DSCU-2	208 V	2	3.20 kVA	19.0 A	30/30/2//3R	2#10 & 1#10G ~ 3/4" C	P1	38,40	-	OUTSIDE	1,2	
DSS-1	208 V	2	0.12 kVA	1.0 A	MRS	2#12 & 1#12G ~ 3/4" C	P1	34,36	102	KITCHEN	1,2	
DSS-2	208 V	2	0.12 kVA	1.0 A	MRS	2#12 & 1#12G ~ 3/4" C	P1	38,40	102	KITCHEN	1,2	
EF-1	120 V	1	0.46 kVA	4.8 A	MRS	2#12 & 1#12G ~ 3/4" C	P1	16	103	CORRIDOR	2	
EF-2	120 V	1	0.34 kVA	3.5 A	MRS	2#12 & 1#12G ~ 3/4" C	P1	18	16	APARTMENT	2	
FP-1	208 V	2	0.20 kVA	1.0 A	MRS	2#12 & 1#12G ~ 3/4" C	P1	44,46	104	JAN	2	
HWRP-1	120 V	1	0.63 kVA	0.7 A	MRS	2#12 & 1#12G ~ 3/4" C	P1	20	105	LAUNDRY	2	
PTAC-1	208 V	2	0.69 kVA	4.9 A	NEMA 6-20R	2#12 & 1#12G ~ 3/4" C	P1	13,15	108	APARTMENT	2	
PTAC-2	208 V	2	0.53 kVA	3.7 A	NEMA 6-20R	2#12 & 1#12G ~ 3/4" C	P1	17,19	114	BEDROOM	2	
PTAC-3	208 V	2	0.53 kVA	3.7 A	NEMA 6-20R	2#12 & 1#12G ~ 3/4" C	P1	21,23	115	BEDROOM	2	
PTAC-4	208 V	2	0.69 kVA	4.9 A	NEMA 6-20R	2#12 & 1#12G ~ 3/4" C	P1	25,27	116	APARTMENT	2	
PTAC-5	208 V	2	0.53 kVA	3.7 A	NEMA 6-20R	2#12 & 1#12G ~ 3/4" C	P1	29,31	107	BEDROOM	2	
PTAC-6	208 V	2	0.53 kVA	3.7 A	NEMA 6-20R	2#12 & 1#12G ~ 3/4" C	P1	33,35	106	BEDROOM	2	
PTAC-7	208 V	2	0.53 kVA	3.7 A	NEMA 6-20R	2#12 & 1#12G ~ 3/4" C	P1	37,39	105	LAUNDRY	2	
PTAC-8	208 V	2	1.36 kVA	6.7 A	NEMA 6-20R	2#12 & 1#12G ~ 3/4" C	P1	41,43	100	LIVING ROOM	2	
PTAC-9	208 V	2	1.36 kVA	6.7 A	NEMA 6-20R	2#12 & 1#12G ~ 3/4" C	P1	45,47	100	LIVING ROOM	2	
WH-1	208 V	3	24.00 kVA	83.0 A	100/90/3/1	3#2 & 8G ~ 1" C	P1	22,24,26	104	JAN	2	

NOTES:

1. INDOOR DSS UNIT FED FROM ASSOCIATED OUTDOOR UNIT.
2. ALL CONDUCTORS FOR MECHANICAL AND PLUMBING EQUIPMENT SHALL BE COPPER. THE USE OF ALUMINUM CONDUCTORS TO FEED THIS EQUIPMENT IS NOT PERMITTED.

POND

3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION

US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: J. REYES  
DRAWN BY: J. REYES  
CHECKED BY: J. WILLIAMS  
SUBMITTED BY: C. CUSICK  
DATE: 02/12/2024  
PROJECT #: 1220834

SHEET TITLE

LUMINAIRE AND  
MECHANICAL  
EQUIPMENT  
SCHEDULES

SHEET NUMBER

E-611

ORIGINAL SHEET SIZE:  
24" X 36"

100% ISSUED FOR CONSTRUCTION



PANELBOARD SCHEDULE: P1

LOCATION: KITCHEN 102  
SUPPLY FROM: MDP  
MOUNTING: FLUSH  
ENCLOSURE: NEMA 1

MAINS RATING: 400A MCB  
VOLTAGE: 208Y/120  
PHASES: 3  
WIRES: 4

MINIMUM BREAKER SCCR: 25,000

CONNECTED LOAD KVA													
CKT	CIRCUIT DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	CIRCUIT DESCRIPTION	CKT			
** 1	RANGE ROOM 108	60 A	2	4.55	4.55		2	60 A	RANGE ROOM 102	2	**		
-- 3	--	--	--		4.55	4.55	--	--	--	4	--		
** 5	RANGE ROOM 102	60 A	2			4.55	2	60 A	RANGE ROOM 116	6	**		
-- 7	--	--	--	4.55	4.55		--	--	--	8	--		
9	WASHER/DRYER RM 105	30 A	2		1.18	1.18	2	30 A	WASHER/DRYER RM 105	10			
-- 11	--	--	--			1.18	--	--	--	12	--		
13	PTAC-1	20 A	2	0.35	0.18		1	20 A	FIRE ALARM CONTROL PANEL	14			
-- 15	--	--	--		0.35	0.46	1	20 A	EF-1	16			
17	PTAC-2	20 A	2			0.27	0.34	1	20 A	EF-2	18		
-- 19	--	--	--	0.27	0.63		1	20 A	HWRP-1	20			
21	PTAC-3	20 A	2		0.27	8.00	3	90 A	WH-1	22			
-- 23	--	--	--			0.27	8.00	--	--	24	--		
25	PTAC-4	20 A	2	0.35	8.00		--	--	--	26	--		
-- 27	--	--	--		0.35	7.57	3	80 A	DOAS-1	28			
29	PTAC-5	20 A	2			0.27	7.57	--	--	30	--		
-- 31	--	--	--	0.27	7.57		--	--	--	32	--		
33	PTAC-6	20 A	2		0.27	1.66	2	30 A	DSCU-1, DSS-1	34			
-- 35	--	--	--			0.27	1.66	--	--	36	--		
37	PTAC-7	20 A	2	0.27	1.66		2	30 A	DSCU-2, DSS-2	38			
-- 39	--	--	--		0.27	1.66	--	--	--	40	--		
41	PTAC-8	20 A	2			0.68	0.80	1	20 A	DH-1	42		
-- 43	--	--	--	0.68	0.10		2	20 A	FP-1	44			
45	PTAC-9	20 A	2		0.68	0.10	--	--	--	46	--		
-- 47	--	--	--			0.68	1.10	1	20 A	MICROWAVE ROOM 108	48		
49	MICROWAVE ROOM 108	20 A	1	1.10	1.10		1	20 A	MICROWAVE ROOM 102	50			
51	MICROWAVE ROOM 102	20 A	1		1.10	0.50	1	20 A	DISHWASHER ROOM 102	52			
53	MICROWAVE ROOM 116	20 A	1			1.10	1.44	2	30 A	L5-30R RACK RECP	54		
55	REFRIGERATOR ROOM 102	20 A	1	0.18	1.44		--	--	--	56	--		
** 57	MICROWAVE ROOM 116	20 A	1		1.10	0.36	1	20 A	RACK RECP	58			
59	MICROWAVE ROOM 102	20 A	1			1.10	0.00	1	20 A	SPARE	60		
61	SPARE	20 A	1	0.00	0.00		1	20 A	SPARE	62			
63	SPARE	20 A	1		0.00	0.00	1	20 A	SPARE	64			
65	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	66		
67	SPACE	--	1	--	--		1	--	SPACE	68			
69	SPACE	--	1		--	--	1	--	SPACE	70			
71	SPACE	--	1			--	1	--	SPACE	72			
73	SPACE	--	1	--	--		1	--	SPACE	74			
75	SPACE	--	1		--	--	1	--	SPACE	76			
77	SPACE	--	1			--	1	--	SPACE	78			
79	PANEL P2	100 A	3	5.24	0.00		3	30 A	SPD	80			
-- 81	--	--	--		5.52	0.00	--	--	--	82	--		
-- 83	--	--	--			4.86	0.00	--	--	84	--		
TOTAL LOAD:				47.56	41.64	41.83							

NOTES: 1. PROVIDE AFCI CIRCUIT BREAKERS FOR BRANCH CIRCUITS NOTED WITH \*\*\*  
2. PROVIDE GFCI CIRCUIT BREAKERS FOR BRANCH CIRCUITS NOTED WITH \*\*\*\*

Load Classification	Connected Load	Estimated Demand	Panel Totals
HVAC	56.12 kVA	62.12 kVA	Total Conn. Load: 131.03 kVA
LTG	1.13 kVA	1.13 kVA	Total Est. Demand Load: 135.03 kVA
Other	6.52 kVA	6.52 kVA	Total Conn. Current: 364 A
Power	0.18 kVA	0.18 kVA	Total Est. Demand Current: 375 A
Recp - General Purpose	14.00 kVA	12.00 kVA	Total Est. Design Current: 375 A
Recp - Specific Appliance or Load	53.08 kVA	53.08 kVA	

PANELBOARD SCHEDULE: P2

LOCATION: KITCHEN 102  
SUPPLY FROM: P1  
MOUNTING: FLUSH  
ENCLOSURE: NEMA 1

MAINS RATING: 100A MCB  
VOLTAGE: 208Y/120  
PHASES: 3  
WIRES: 4

MINIMUM BREAKER SCCR: 25,000

CONNECTED LOAD KVA													
CKT	CIRCUIT DESCRIPTION	TRIP	POLE	A	B	C	POLE	TRIP	CIRCUIT DESCRIPTION	CKT			
** 1	RECP ROOM 102	20 A	1	0.72	1.05		1	20 A	RECP ROOM 115	2	*		
* 3	RECP ROOM 106	20 A	1		1.05	1.05	1	20 A	RECP ROOM 107	4	*		
** 5	RECP ROOM 102	20 A	1			0.72	1.05	1	20 A	RECP ROOM 114	6	*	
** 7	RECP ROOM 116	20 A	1	0.45	0.45		1	20 A	RECP ROOM 108	8	*		
* 9	RECP ROOM 108	20 A	1		0.87	1.05	1	20 A	RECP ROOM 100	10	*		
* 11	RECP ROOM 116	20 A	1			0.87	0.54	1	20 A	RECP RM 112,103,111,110	12	*	
** 13	RECP RM 100,101,104,105	20 A	1	0.72	0.90		1	20 A	RECP EXTERIOR	14			
* 15	RECP RM 120,119,118,113	20 A	1		0.54	0.28	1	20 A	INTERIOR LIGHTING	16			
17	RECP EXTERIOR	20 A	1			0.90	0.24	1	20 A	EXTERIOR LIGHTING	18		
19	INTERIOR LIGHTING	20 A	1	0.36	0.54		1	20 A	RECP CORRIDOR 103	20			
21	INTERIOR & PORCH LIGHTING	20 A	1		0.32	0.36	1	20 A	RECP LAUNDRY 105	22			
23	RECP CORRIDOR 113	20 A	1			0.54	0.00	1	20 A	SPARE	24		
25	ATTIC LIGHTING	20 A	1	0.05	0.00		1	20 A	SPARE	26			
27	SPARE	20 A	1		0.00	0.00	1	20 A	SPARE	28			
29	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	30		
31	SPARE	20 A	1	0.00	0.00		1	20 A	SPARE	32			
33	SPARE	20 A	1		0.00	0.00	1	20 A	SPARE	34			
35	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	36		
37	SPACE	--	1	--	--		1	--	SPACE	38			
39	SPACE	--	1		--	--	1	--	SPACE	40			
41	SPACE	--	1			--	1	--	SPACE	42			
TOTAL LOAD:				5.24	5.52	4.86							

NOTES: 1. PROVIDE AFCI CIRCUIT BREAKERS FOR BRANCH CIRCUITS NOTED WITH \*\*\*  
2. PROVIDE GFCI CIRCUIT BREAKERS FOR BRANCH CIRCUITS NOTED WITH \*\*\*\*

Load Classification	Connected Load	Estimated Demand	Panel Totals
LTG	1.13 kVA	1.13 kVA	Total Conn. Load: 15.62 kVA
Other	0.12 kVA	0.12 kVA	Total Est. Demand Load: 14.05 kVA
Recp - General Purpose	13.14 kVA	11.57 kVA	Total Conn. Current: 43 A
Recp - Specific Appliance or Load	1.23 kVA	1.23 kVA	Total Est. Demand Current: 39 A
			Total Est. Design Current: 39 A

EXISTING DISTRIBUTION PANEL: MDP

LOCATION: FIRE SHOP  
MOUNTING: SURFACE  
ENCLOSURE: NEMA 1

MAINS RATING: 800A MLO  
VOLTAGE: 208Y/120  
PHASES: 3  
WIRES: 4  
SCCR RATING: 65,000

CKT	CIRCUIT DESCRIPTION	POLES	TRIP RATING	LOAD	COMMENTS
1	NEW PANEL P1	3	400 A	131.0 kVA	SEE NOTE 1
2	EXISTING PANEL MPFH	3	400 A	40.0 kVA	SEE NOTE 2
3	SPARE	3	200 A	0.0 kVA	
4	UNKNOWN LOAD	3	225 A	20.0 kVA	SEE NOTE 2
5	EXISTING PANEL STORAGE BUILDING	3	125 A	10.0 kVA	SEE NOTE 2
6	SPACE	3	--	--	
7	SPACE	3	--	--	

NOTES: 1. PROVIDE 100% RATED CIRCUIT BREAKER.  
2. ESTIMATED LOAD.

LOAD CLASSIFICATION:	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS
HVAC	56.12 kVA	62.12 kVA	TOTAL CONN. LOAD: 201.03 kVA
LTG	1.13 kVA	1.13 kVA	TOTAL EST. DEMAND LOAD: 205.03 kVA
Other	6.52 kVA	6.52 kVA	TOTAL CONN. CURRENT: 558 A
Power	0.18 kVA	0.18 kVA	TOTAL EST. DEMAND CURRENT: 569 A
Spare	70.00 kVA	70.00 kVA	TOTAL EST. DESIGN CURRENT:
Recp - Specific Appliance or Load	53.08 kVA	53.08 kVA	
Recp - General Purpose	14.00 kVA	12.00 kVA	

SHEET NOTES

1. REFER TO SHEETS E-001 AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS, AND LEGEND.

# KEYNOTES

1. PROVIDE 100% RATED CIRCUIT BREAKER.



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

Copyright © 2024 by Pond & Company. All rights reserved. No copying or duplication of these documents is allowed without the expressed written agreement of Pond & Company.

EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION



US Fish & Wildlife Service

PROJECT NAME

Cameron Prairie  
National Wildlife  
Refuge  
Bunkhouse

LA-27  
Bell City, LA 70630

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: J. REYES  
DRAWN BY: J. REYES  
CHECKED BY: J. WILLIAMS  
SUBMITTED BY: Approver  
DATE: 02/12/2024  
PROJECT #: 1220834

SHEET TITLE

PANELBOARD  
SCHEDULES

SHEET NUMBER

E-621

ORIGINAL SHEET SIZE:  
24" X 36"