LA-27 Bell City, LA 70630

100% ISSUED FOR CONSTRUCTION

CONTRACT NUMBER: 140FC123F0003 02/12/2025

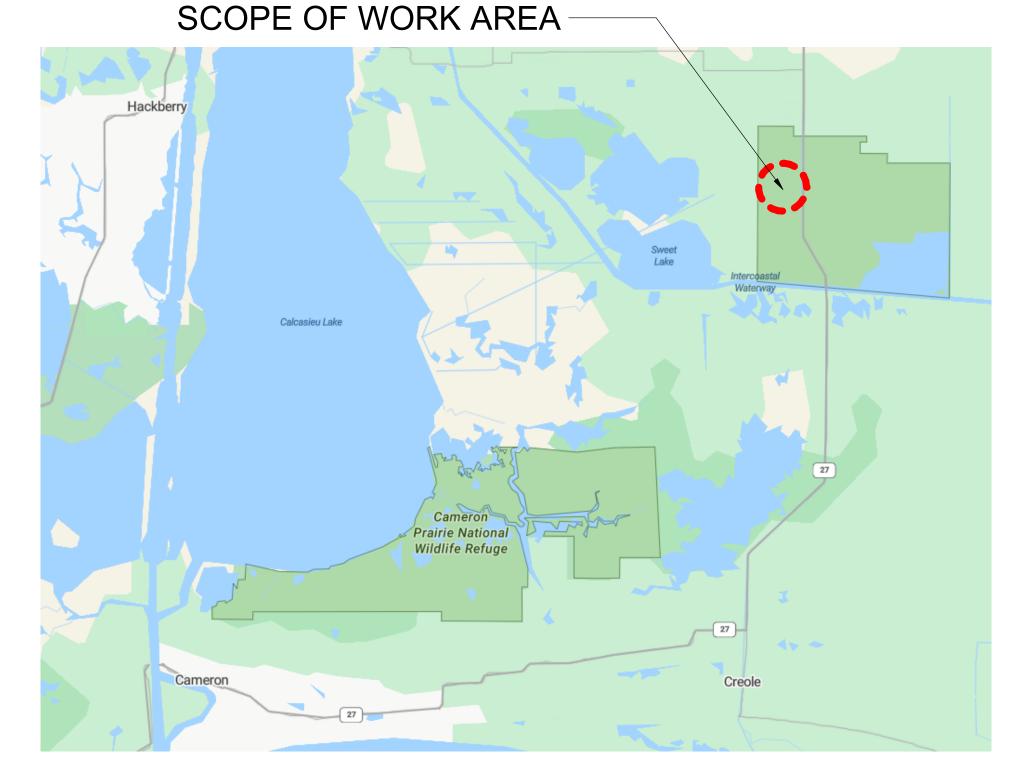
> SHEET NAME NUMBER **COVER SHEET & SHEET INDEX**

S-001	GENERAL STRUCTURAL NOTES
S-002	GENERAL STRUCTURAL NOTES
S-003	SCHEDULE OF SPECIAL INSPECTIONS & ABBREVIATION KEY
S-004	WIND LOADING DIAGRAMS & METAL BUILDING DESIGN CRITERIA
S-101	FOUNDATION AND FRAMING PLANS
S-301	FOUNDATION AND FRAMING SECTIONS
S-501	STRUCTURAL DETAILS
SHEET T	OTAL: 7

ARCHITEC'	ARCHITECTURAL				
A-001	GENERAL NOTES, ABBREVIATIONS & SYMBOLS				
A-101	FLOOR PLAN & ROOF PLAN				
A-201	EXTERIOR ELEVATIONS, BUILDING SECTIONS, AND SECTION DETAILS				
SHEET TOTAL: 3					

ELECTR	CAL			
E-001	ELECTRICAL GENERAL NOTES AND ABBREVIATIONS			
E-002	ELECTRICAL LEGEND			
E-111	ELECTRICAL LIGHTING AND POWER PLAN			
E-501	ELECTRICAL DETAILS			
E-601	ELECTRICAL FEEDER SCHEDULES AND ONE-LINE DIAGRAM			
SHEET TOTAL: 5				

POLE BARN



PROJECT VICINITY 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

<u>CIVIL ENGINEER</u> 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

SCALE: SCALE: N.T.S.

PROJECT LOCATION MAP

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CONSULTANT

CLIENT INFORMATION

US Fish & Wildlife Services

National Wildlife Refuge Pole Barn

Bell City, LA 70630

DRAWING ISSUE

DESIGNED BY: R. ELLIOTT

SHEET TITLE

DRAWN BY: U. MARGULL CHECKED BY: K. KOTELLOS SUBMITTED BY: C. CUSICK 02/12/2025

COVER SHEET & SHEET INDEX

SHEET NUMBER

G-001

A. GENERAL

D

- 1. THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS BEFORE THEY ARE PROVIDED TO THE CONTRACTING OFFICER. THE CONTRACTOR'S REVIEW SHALL BE DOCUMENTED WITHIN THE SUBMITTAL. THE CONTRACTING OFFICER RESERVES 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.
- 3. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE PRE-ENGINEERED METAL BUILDING (PEMB), ARCHITECTURAL, AND ELECTRICAL DRAWINGS, AND THE SPECIFICATIONS.
- 4. 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 ARCHITECTURAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IMMEDIATELY OF ANY CONFLICTS, OMISSIONS, OR DISCREPANCIES. THIS COORDINATION SHALL BE PERFORMED BEFORE THE PROCUREMENT OF MATERIALS AND/OR FABRICATION OF ANY PROJECT COMPONENTS.
- 5. WHERE SECTION IS SHOWN AND DETAILED, OTHER SECTIONS OF SIMILAR CONDITION SHALL BE DETAILED THE SAME OR OPPOSITE HAND. WHETHER SPECIFICALLY NOTED OR NOT.
- 6. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE BEGINNING CONSTRUCTION. NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCIES.
- 7. COORDINATE SIZES AND LOCATIONS OF ALL FLOOR AND ROOF PENETRATIONS WITH PEMB AND ARCHITECTURAL REQUIREMENTS.
- 8. CONTRACTING OFFICER'S APPROVAL MUST BE SECURED FOR ALL SUBSTITUTIONS. SUCH APPROVAL MAY ALSO BE WITHHELD AT THE SOLE DISCRETION OF THE CONTRACTING OFFICER.
- 9. 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).
- b. With the trace of the second of the secon
- c. AMERICAN SOCIETY OF CIVIL ENGINEERS, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES," 2016 EDITION (ASCE 7-16).
- 10. 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.
- 11. DO NOT SCALE DRAWINGS, USE DIMENSIONS.
- 12. DESIGN LOADS USED IN THE DESIGN OF THE STRUCTURAL SYSTEMS IN THIS PROJECT ARE AS FOLLOWS:

a.	RISK CATEGORY	Ш
h	DEAD LOAD.	

b. <u>DEAD LOAD:</u>

ROOF (NOT INCLUDING FRAMING SELF WT.) 5 psf COLLATERAL 5 psf

c. <u>LIVE LOAD:</u>

ROOF 20 psf (REDUCIBLE) SLAB-ON-GRADE 250 psf (EXISTING, ASSUMED)

d. ROOF SNOW LOAD:

GROUND SNOW LOAD, p_g

e. WIND DESIGN CRITERIA:

EXPOSURE CATEGORY D

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

137 mph (FACTORED, OLTIMATE LOAD)

106.1 mph (UNFACTORED, SERVICE LOAD)

INTERNAL PRESSURE COEFFICIENT, GC_p \pm 0.55, PARTIALLY ENCLOSED IN LONGITUDINAL DIRECTION \pm 0.00. OPEN IN TRANSVERSE DIRECTION

5 psf

f. <u>SEISMIC DESIGN CRITERIA:</u>

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

 S_{D1} (LONG PERIOD (1.0 SECOND)) 0.081 g SITE CLASS CLASS D

SEISMIC DESIGN CATEGORY

B
LATERAL FORCE RESISTING SYSTEM MOMENT RESISTING FRAME SYSTEMS: STEEL ORDINARY

MOMENT FRAMES

IMPORTANCE FACTOR, *I*_e
RESPONSE MODIFICATION COEFFICIENT, *R*

RESPONSE MODIFICATION COEFFICIENT, R 3.5 SEISMIC RESPONSE COEFFICIENT, C_s 0.025 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

SEISMIC BASE SHEAR, V 1.0 K

13. ALL VERTICAL ELEVATIONS ARE BASED ON THE CONTROL ELEVATION FROM SURVEY BY OTHERS.

B. FOUNDATION

- 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 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 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. 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	4,000 psi	< 6%	0.45	4" ± 1"
REMAINING AREAS	4,000 psi	< 3%	0.45	4" ± 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.
- 6. ALL ANCHOR RODS SHALL BE BLACK STEEL.
- 7. CONCRETE FORMWORK SHALL COMPLY WITH ACI 347, LATEST EDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FORMWORK.
- 8. DURING AND IMMEDIATELY AFTER PLACING, CONCRETE SHALL BE THOROUGHLY COMPACTED BY SPADING OR MECHANICAL VIBRATING TO PROVIDE DENSE CONCRETE FREE OF HONEYCOMBING.
- 9. 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.
- 10. ROUGHEN ALL CONSTRUCTION JOINTS TO A MINIMUM OF 1/4" AMPLITUDE UNLESS NOTED OTHERWISE.
- 11. LIMIT FLYASH CONTENT TO 20% MAX (BY MASS)
- 12. USE MAXIMUM COARSE AGGREGATE SIZE OF 3/4 INCH.

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CONSULTANT

U.S.
FISH & WILDLIFE SERVICE

US Fish & Wildlife Services

PROJECT NAME

Cameron Prairie
National Wildlife
Refuge
Pole Barn

LA-27 Bell City, LA 70630

DRAWING ISSUE

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NOIL

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"

- D. 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 CONTRACTING OFFICER.
- 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	WALLS,	#6 BAR AND LARGER	2"
TO EARTH OR WEATHER:	SLABS	#5 BAR AND SMALLER	1 1/2"
FORMED CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	WALLS, SLABS	#11 BAR AND SMALLER	3/4"

- 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.

E. <u>PRE-ENGINEERED METAL BUILDING SYSTEMS:</u>

- 1. PRE-ENGINEERED METAL BUILDING (PEMB) SYSTEMS FOR THIS PROJECT SHALL BE DESIGNED IN ACCORDANCE WITH THE METAL BUILDING MANUFACTURERS ASSOCIATION (MBMA) "DESIGN PRACTICES MANUAL" (2018 EDITION), BUILDING CODES REFERENCED IN NOTE A.7 ON S-001, AND THE LOADS SHOWN IN NOTE A.10 ON S-001. WHERE THERE IS A DISCREPANCY IN DESIGN LOAD REQUIREMENTS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- 2. PRE-ENGINEERED METAL BUILDING (PEMB) SYSTEMS SHALL BE FULLY ENGINEERED AND FABRICATED BY THE MANUFACTURER AND SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF LOUISIANA. DESIGN AND ERECTION DRAWINGS SHALL BE SUBMITTED AND SHALL INCLUDE COLUMN LAYOUT/LOCATIONS, MEMBER SPACING, SIZE OF MEMBERS, CONNECTIONS AND BRACING. DESIGN SHALL CONSIDER UNFACTORED LL, DL (INCLUDING TRUE COLLATERAL DEAD LOAD FROM SUSPENDED PIPING, HVAC, AND OTHER EQUIPMENT LOADS SUPPORTED BY THE SUPER-STRUCTURE AND COORDINATED/CALCULATED BY THE PEMB DESIGNER), WIND LOADS (POSITIVE AND NEGATIVE PRESSURES, SEISMIC LOADS, SNOW LOAD AND SNOW DRIFT WHERE APPLICABLE. CALCULATIONS SHALL ALSO BE SUBMITTED AND BEAR THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF LOUISIANA. LOCATION OF INTENDED PORTAL FRAMES AND THEIR ASSOCIATED LOADS SHALL BE GIVEN. BUILDING DESIGNER SHALL REFERENCE THE PROJECT NOTES INCLUDED IN THIS SET OF DRAWINGS FOR BUILDING LOADS AND PROVIDE AN INDEPENDENT CODE ANALYSIS FOR CODE-PRESCRIBED LOADS FOR THE PEMB. REPORT DISCREPANCIES TO CONTRACTING OFFICER FOR REVIEW AND RESOLUTION BEFORE FINALIZING PEMB DESIGN. EXISTING PEMB SHALL BE DEMOLISHED BY FWS AND THE EXISTING SLAB-ON-GRADE SHALL REMAIN.
- 3. FOUNDATIONS HAVE BEEN DESIGNED FOR THE <u>PRELIMINARY</u> COLUMN REACTIONS SHOWN ON S-004. IF THE FINAL BUILDING SYSTEM PROVIDED HAS HIGHER COLUMN REACTIONS, THE CONTRACTOR SHALL REDESIGN AND INSTALL MODIFIED FOUNDATIONS AT NO ADDITIONAL CHARGE TO THE GOVERNMENT. THE REDESIGN SHALL BE PERFORMED AND STAMPED BY A PROFESSIONAL ENGINEER WHO IS REGISTERED IN THE STATE OF LOUISIANA.
- 4. CONCRETE FOOTINGS ARE TO BE CENTERED ON PEMB COLUMNS (U.N.O.)
- 5. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS SHOWN WITH FINAL PEMB DRAWINGS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY CONTRACTING OFFICER OF ANY CONFLICTS FOR DRAWING REVISIONS PRIOR TO CONSTRUCTION.
- 6. STEEL FRAMING SHALL BE FABRICATED AND ERECTED TO BE ELECTRICALLY CONTINUOUS FOR LIGHTNING PROTECTION.
- 7. MINIMUM HEAD CLEARANCE FOR THE PEMB SHALL BE 14 FEET ABOVE EXISTING SLAB-ON-GRADE.

F. POST INSTALLED ANCHORS:

- 1. ALL POST INSTALLED ANCHORS SHALL BE INSTALLED WITH THE PRODUCT DIAMETER AND EMBEDMENT SHOWN IN THE DETAILS.
- 2. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL CONTACT MANUFACTURER'S REPRESENTATIVE FOR PRODUCT INSTALLATION TRAINING.
- 3. REFER TO THE PROJECT BUILDING CODE AND/OR EVALUATION REPORT FOR SPECIAL INSPECTIONS AND PROOF LOAD REQUIREMENTS.
- 4. THREADED RODS SHALL HAVE A MINIMUM YIELD STRENGTH OF 36 ksi.
- 5. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED BELOW MAY BE SUBMITTED BY THE CONTRACTOR TO THE CONTRACTING OFFICER FOR REVIEW. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A RESEARCH REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION UNDER THE PRODUCT BUILDING CODE. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT PERFORMANCE VALUES OF THE DESIGN BASIS PRODUCT.
- 6. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-19 SECTION 26.7.1 (I). INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-19 SECTION 26.13.1.5. PRE-APPROVED PRODUCTS INCLUDE:

	MANUFACTURER	PRODUCT	ICC REPORT
BASIS OF DESIGN	HILTI	HIT-RE 500-VE WITH THREADED ROD	ESR-2322
PRE-APPROVED ALTERNATE	HILTI	HIT-HY 200R WITH HIT-Z ANCHORS	ESR-3187
ANCHORS	SIMPSON STRONG-TIE	SET-XP WITH THREADED ROD	ESR-2508
	DeWALT POWERS FASTENERS	PE1000+ WITH THREADED ROD	ESR-2583

- G. SPECIAL INSPECTIONS:
- QUALIFIED SPECIAL INSPECTORS SHALL BE RETAINED TO PERFORM INSPECTIONS REQUIRED BY THE BUILDING CODE. SEE SHEET 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.



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CONSULTANT

U.S.
FISH & WILDLIFE
SERVICE

US Fish & Wildlife Services

PROJECT NAME

Cameron Prairie
National Wildlife
Refuge
Pole Barn

LA-27 Bell City, LA 70630

DRAWING ISSUE

CRIPTION

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

			MATERIAL / ACTIVITY	SERVICE	EXTENT
	1.	REPORT CHAPTE	ATOR AND ERECTOR DOCUMENTS (VERIFY IS AND CERTIFICATES AS LISTED IN AISC 360, ER N, PARAGRAPH 3.2 FOR COMPLIANCE WITH RUCTION DOCUMENTS)	SUBMITTAL REVIEW	EACH SUBMITTAL
	2.	MATERI	AL VERIFICATION OF STRUCTURAL STEEL	SHOP AND FIELD INSPECTION	PERIODIC
	3.	EMBEDI LENGTH	MENTS (VERIFY DIAMETER, GRADE, TYPE, I, EMBEDMENT. SEE 1705.3 FOR ANCHORS)	FIELD INSPECTION	PERIODIC
,	4.	APPLICA	MEMBER LOCATIONS, BRACES, STIFFENERS, AND ATION OF JOINT DETAILS AT EACH CONNECTION WITH CONSTRUCTION DOCUMENTS	FIELD INSPECTION	PERIODIC
	5.	STRUCT	URAL STEEL WELDING:		
		OR	PECTION TASKS PRIOR TO WELDING (OBSERVE, PERFORM FOR EACH WELDED JOINT OR MEMBER, QA TASKS LISTED IN AISC 360, TABLE N5.4-1)	SHOP AND FIELD INSPECTION	OBSERVE OR PERFORM AS NOTED
		PEF	PECTION TASKS DURING WELDING (OBSERVE, OR FORM FOR EACH WELDED JOINT OR MEMBER, QA TASKS LISTED IN AISC 360, TABLE N5.4-2)	SHOP AND FIELD INSPECTION	OBSERVE
		PEF	PECTION TASKS AFTER WELDING (OBSERVE, OR FORM FOR EACH WELDED JOINT OR MEMBER, QA TASKS LISTED IN AISC 360, TABLE N5.4-3)	SHOP AND FIELD INSPECTION	OBSERVE OR PERFORM AS NOTED
			NDESTRUCTIVE TESTING (NDT) OF WELDED NTS: SEE COMMENTARY		
		1.)	COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY III OR IV	SHOP OR FIELD ULTRASONIC TESTING - 100%	PERIODIC
		2.)	COMPLETE PENETRATION GROOVE WELDS 5/16" OR GREATER IN RISK CATEGORY II	SHOP OR FIELD ULTRASONIC TESTING - 10% OF WELDS MINIMUM	PERIODIC
		3.)	THERMALLY CUT SURFACES OF ACCESS HOLES WHEN MATERIAL t > 2"	SHOP OR FIELD MAGNETIC PARTICLE OR PENETRANT TESTING	PERIODIC
		4.)	WELDED JOINTS SUBJECT TO FATIGUE WHEN REQUIRED BY AISC 360, APPENDIX 3 TABLE A-3.1	SHOP OR FIELD RADIOGRAPHIC OR ULTRASONIC TESTING	PERIODIC
		5.)	FABRICATOR'S NDT REPORTS WHEN FABRICATOR PERFORMS NDT	VERIFY REPORTS	EACH SUBMITTAL
	6.	STRUCT	URAL STEEL BOLTING:	SHOP AND FIELD INSPECTION	
		OR COI	PECTION TASKS PRIOR TO BOLTING (OBSERVE, PERFORM TASKS FOR EACH BOLTED INECTION, IN ACCORDANCE WITH QA TASKS TED IN AISC 360, TABLE N5.6-1)		OBSERVE OR PERFORM AS NOTED
			PECTION TASKS DURING BOLTING (OBSERVE QA TASKS LISTED IN AISC 360, TABLE N5.6-2)		OBSERVE
		1.)	PRE-TENSIONED AND SLIP-CRITICAL JOINTS		
			a.) TURN-OF-NUT WITH MATCHING MARKINGS		PERIODIC
			b.) DIRECT TENSION INDICATOR		PERIODIC
			c.) TWIST-OFF TYPE TENSION CONTROL BOLT		PERIODIC
			d.) TURN-OF-NUT WITHOUT MATCHING MARKINGS		CONTINUOUS
			e.) CALIBRATED WRENCH		CONTINUOUS
		2.)	SNUG-TIGHT JOINTS		PERIODIC
		TAS ACC	PECTION TASKS AFTER BOLTING (PERFORM KS FOR EACH BOLTED CONNECTION IN CORDANCE WITH QA TASKS LISTED IN AISC 360, LE N5.6-3)		PERFORM
	7.	CONST	TION OF STEEL ELEMENTS OF COMPOSITE RUCTION PRIOR TO CONCRETE PLACEMENT IN DANCE WITH QA TASKS LISTED IN AISC 360, N6.1	SHOP AND FIELD INSPECTION AND TESTING	OBSERVE OR PERFORM AS NOTED

170	5.3 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
		L	l

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.

	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

STRUCTURAL ABBREVIATION KEY

@	AT	lb	POUNDS
A.F.F.	ABOVE FINISHED FLOOR	L.L.	LIVE LOAD
ARCH	ARCHITECTURAL	LLH	LONG LEG HORIZONTAL
B/	BOTTOM OF	LLV	LONG LEG VERTICAL
BLDG	BUILDING	L.W.	LIGHT WEIGHT
ВМ	BEAM	MAX.	MAXIMUM
ВТМ.	BOTTOM	MECH.	MECHANICAL
BTW.	BETWEEN	MFR.	MANUFACTURER
C.L.	CENTERLINE	MIN.	MINIMUM
CIP	CAST-IN-PLACE	mph	MILES PER HOUR
CJ	CONTROL JOINT	N/A	NOT APPLICABLE
C.J.P.	COMPLETE JOINT PENETRATING WELD	N.I.C.	NOT IN CONTRACT
CLR.	CLEAR	N.S.	NEAR SIDE
CMU	CONCRETE MASONRY UNIT	N.T.S.	NOT TO SCALE
COL.	COLUMN	N.W.	NORMAL WEIGHT
CONC.	CONCRETE	0/0	OUT TO OUT
CONST.	CONSTRUCTION	O.C.	ON CENTER
CONT.	CONTINUOUS	O.H.	OPPOSITE HAND
DEG.	DEGREE	OPN'G	OPENING .
DEG. DIA.	DIAMETER	OPP.	OPPOSITE
D.L.	DEAD LOAD	РЕМВ	PRE-ENGINEERED METAL BUILDING SYSTEM
D.L. DWG.	DRAWING	PL.	PLATE
DWG.	DOWEL	PL. PJF	PRE-MOLDED JOINT FILLER
	EACH END		
E.E.		P.J.P.	PARTIAL JOINT PENETRATING WELD
E.F.	EACH FACE	PROJ.	PROJECTION PEAM
ELEC.	ELECTRICAL	PTB	POST-TENSION BEAM
ELEV.	ELEVATION	psf	POUNDS PER SQUARE FOOT
E.O.R.	ENGINEER OF RECORD	psi	POUNDS PER SQUARE INCH
E.O.S.	EDGE OF SLAB	RCB	REINFORCED CONCRETE BEAM
EQ.	EQUAL	REINF.	REINFORCEMENT
E.S.	EACH SIDE	REQ'D	REQUIRED
E.W.	EACH WAY	SDSTSMS	SELF-DRILLING, SELF-TAPPING SHEET METAL SCREWS
EXIST.	EXISTING		
EXP.	EXPANSION	S.F.	SQUARE FOOT
EXT.	EXTERIOR	SIM.	SIMILAR
FD	FLOOR DRAIN	SQ.	SQUARE
FDN.	FOUNDATION	STD.	STANDARD
F.P.	FLOOR PENETRATION	STL.	STEEL
F.F.	FINISH FLOOR	S.W.	SELF-WEIGHT
F.S.	FAR SIDE	T&B	TOP AND BOTTOM
FT.	FEET	T/	TOP OF
FTG	FOOTING	THRD'D	THREADED
F.V.	FIELD VERIFY	TOS	TOP OF STEEL
HK.	HOOK	TYP.	TYPICAL
HOR.	HORIZONTAL	U.N.O.	UNLESS NOTED OTHERWISE
H.S.A.	HEADED STUD ANCHOR	VERT.	VERTICAL
HSS	HOLLOW STRUCTURAL SECTION	VIF	VERIFY IN FIELD
HT.	HEIGHT	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
		WWF	WELDED WIRE FABRIC
		WWR	WELDED WIRE REINFORCEMENT

NOTE: NOT ALL ABREVIATIONS WILL BE USED.

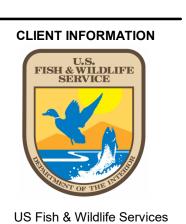
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EOR/AOR SEAL

CONSULTANT



PROJECT NAME

Cameron Prairie National Wildlife Refuge Pole Barn

LA-27 Bell City, LA 70630

DRAWING ISSUE

SCRIPTION

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

SHEET TITLE

SCHEDULE OF SPECIAL INSPECTIONS & ABBREVIATION KEY

PROJECT #: 1220834

SHEET NUMBER

S-003

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 JOIST 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.
- 5. "OH" DENOTES "OVERHANG" AT ROOF.

ROOF COMPONENTS AND CLADDING WIND PRESSURE SCHEDULE

			EFFECTIVE	WIND AREA			
	ZONE	AREA ≤ 10 S.F.	AREA = 25 S.F.	AREA = 50 S.F.	100 S.F. ≤ AREA		
	1	+53.2/-78.7 PSF	+46.4/-76.9 PSF	+41.3/-71.5 PSF	+36.2/-66.0 PSF		
ОН	2e	+53.2/-97.9 PSF	+46.4/-95.3 PSF	+41.3/-93.3 PSF	+36.2/-91.3 PSF		
	2r	+53.2/-125.5 PSF	+46.4/-111.2 PSF	+41.3/-100.4 PSF	+36.2/-89.5 PSF		
ОН	3	+53.2/-123.4 PSF	+46.4/-106.5 PSF	+41.3/-93.7 PSF	+36.2/-80.9 PSF		

		<u>'</u>	5'-0" TYP
3			3
2e 1	1 2r 2r 2r 1		1 2e

ROOF COMPONENTS AND CLADDING WIND PRESSURE DIAGRAM

N.T.S

NOTES: 1. PROVIDED REACTIONS ARE ALLOWABLE STRESS DESIGN LOADS USING LOAD COMBINATIONS FROM ASCE 7-16, SECTION 2.4.1.

TRANSVERSE - CL 2, 3, & 4

LONGITUDINAL

2. LOAD TYPES: C = COMPRESSION T = TENSION

V = SHEAR

TRANSVERSE - CL 1 & 5

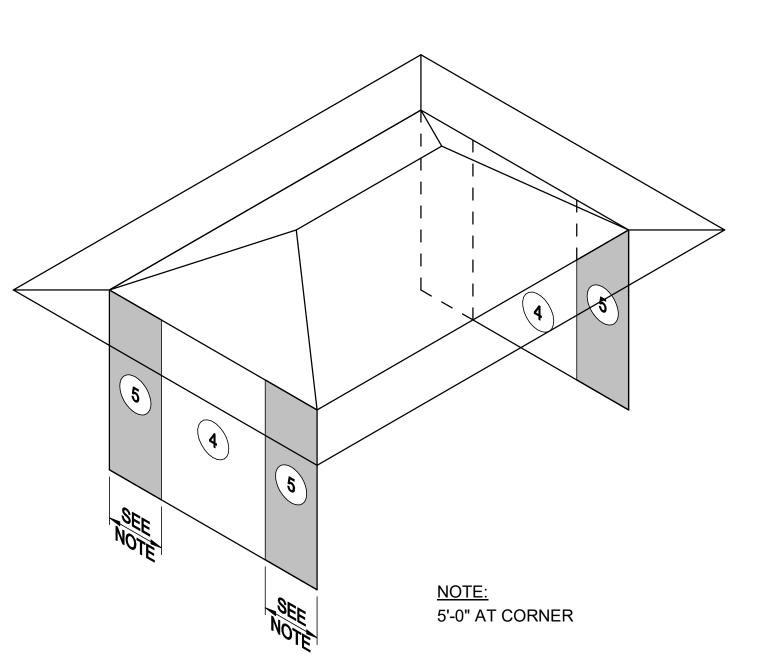
COLUMN	C	т	V _{MAX}	V _{MAX}
COLUMIN	C _{MAX}	I _{MAX}	LONGITUDINAL	TRANSVERSE
A-1, C-1, A-5, C-5	6.7	8.5	2.9	0.7
B-1, B-5	3.5	1.0	3.5	0.8
A-2, C-2, A-4, C-4	7.4	6.6	1.3	1.7
A-3, C-3	8.9	9.9	0.1	2.4

FOOTING REACTION SCHEDULE (k)



WALL COMPONENTS AND CLADDING WIND PRESSURE SCHEDULE

	EFFECTIVE WIND AREA					
ZONE	AREA ≤ 10 S.F.	AREA = 50 S.F.	AREA = 200 S.F.	500 S.F. ≤ AREA		
4	+66.0/-70.2 PSF	+60.7/-65.0 PSF	+56.2/-60.4 PSF	+53.2/-57.4 PSF		
5	+66.0/-83.0 PSF	+60.7/-72.5 PSF	+56.2/-63.4 PSF	+53.2/-57.4 PSF		



WALL COMPONENTS AND CLADDING WIND PRESSURE DIAGRAM - HIP ROOF

3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092
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EOR/AOR SEAL

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CONSULTANT

CLIENT INFORMATION

U.S.
FISH & WILDLIFE
SERVICE

US Fish & Wildlife Services

PROJECT NAME

Cameron Prairie National Wildlife Refuge Pole Barn

LA-27 Bell City, LA 70630

DRAWING ISSUE

SCRIPTION

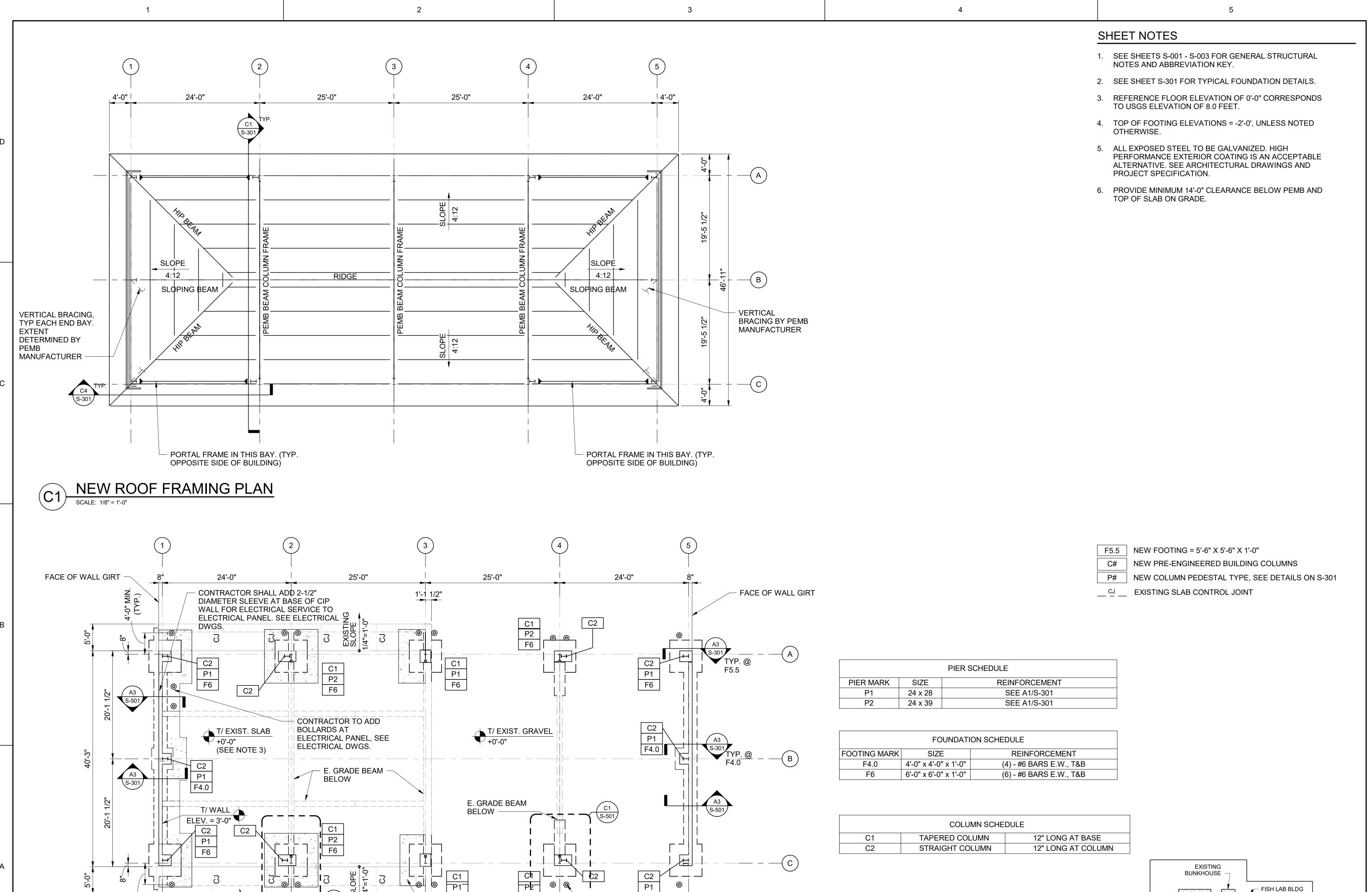
DESIGNED BY: D. SKULLY
DRAWN BY: D. SKULLY

HECKED BY: W. HAYNES
UBMITTED BY: C. CUSICK
ATE: 02/12/2025
ROJECT #: 1220834

SHEET TITLE

WIND LOADING DIAGRAMS & METAL BUILDING DESIGN CRITERIA

S-004



P1

F6

REPLACE BOLLARDS,

SEE A4 / S-501

F6

NEW SECTION OF SLAB

EXIST SLAB DEPTH.

REQ'D FOR FOOTING. USE #4 DOWELS @ 12" O.C., 6" MIN.

EMBEDMENT AT CENTER OF

- EXISTING CONCRETE

FOUNDATION PLAN

APRON TO REMAIN, TYP.

EACH SIDE OF BUILDING

3500 Parkway Lane

Suite 500 Peachtree Corners

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CLIENT INFORMATION

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

SHEET TITLE

1220834

FOUNDATION AND FRAMING PLANS

PROJECT #:

SHEET NUMBER S-101

ORIGINAL SHEET SIZE: 24" X 36"

GARAGE

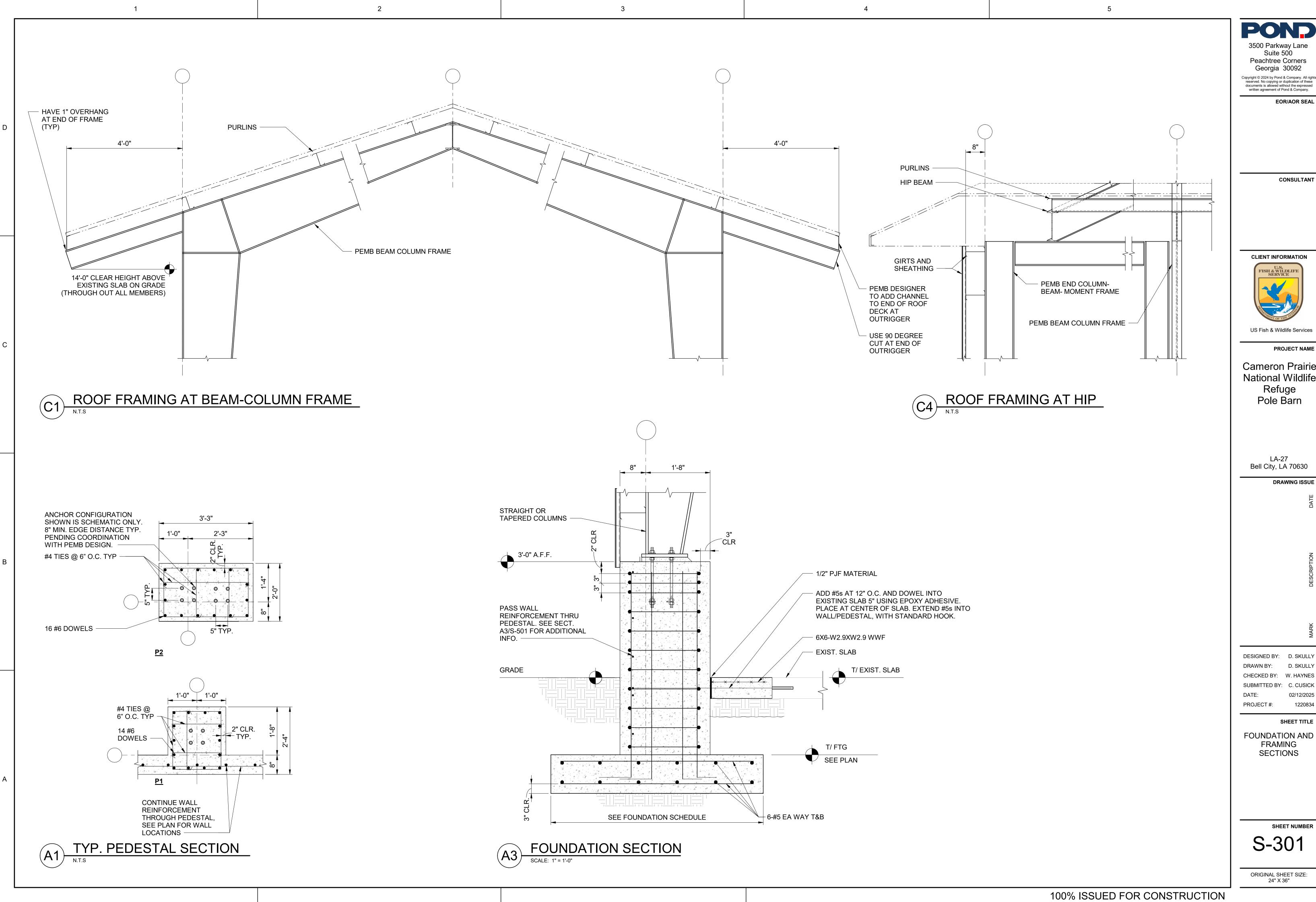
NEW

BUNKHOUSE

FISH LAB BLDG

MAINTENANCE

POLE BARN



3500 Parkway Lane Suite 500

Peachtree Corners Georgia 30092

EOR/AOR SEAL

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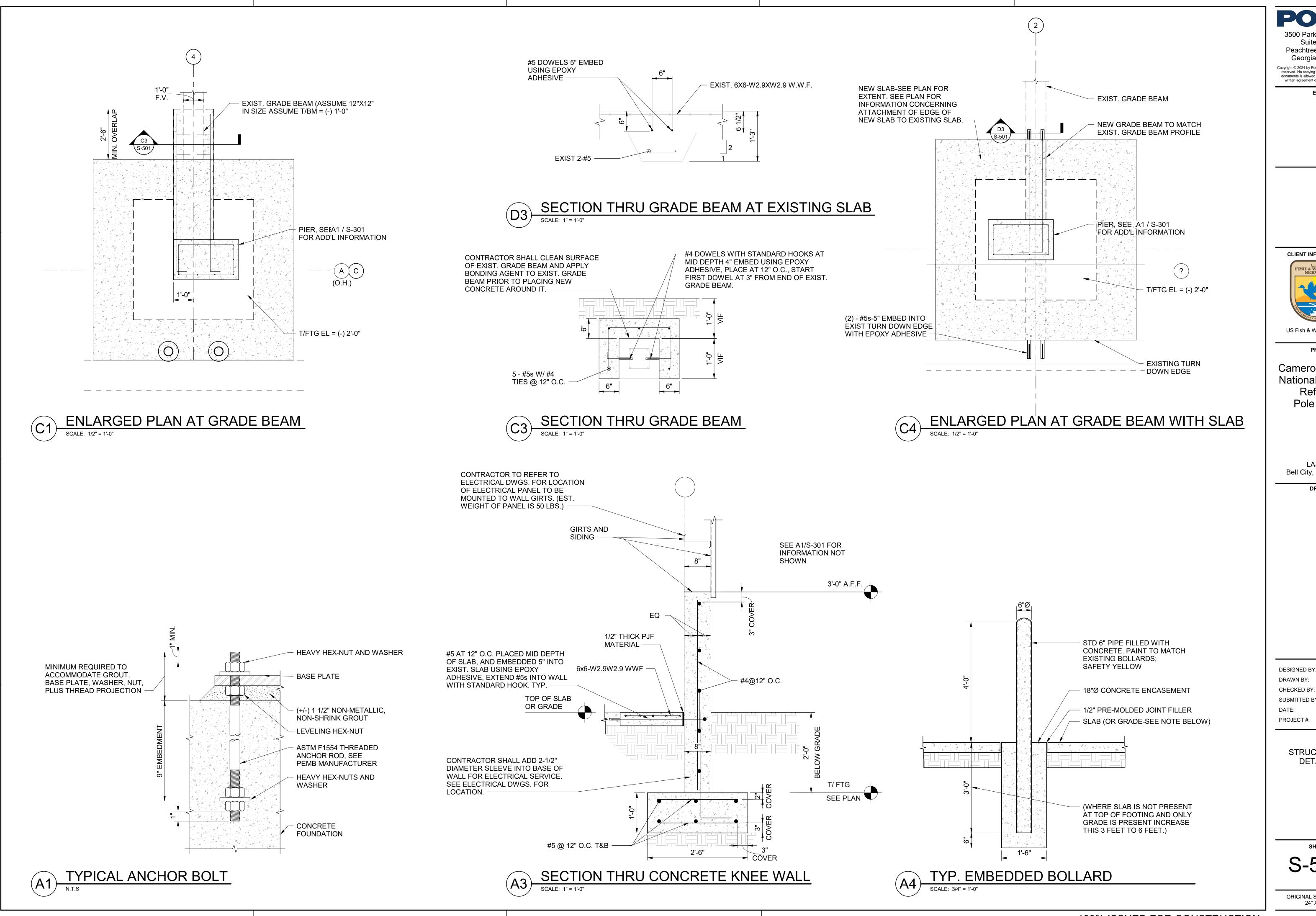
DESIGNED BY: D. SKULLY

CHECKED BY: W. HAYNES SUBMITTED BY: C. CUSICK 02/12/2025 PROJECT #: 1220834

SHEET TITLE

FRAMING SECTIONS

SHEET NUMBER



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SHEET TITLE

1220834

STRUCTURAL **DETAILS**

SHEET NUMBER S-501

ACT

AVG

A/V

BLKG

BD

BTM

B/O

BLDG

CFCI

CFMF

CLG

CTR

CT

CLR

CO

COL

CONC

CORR

CMU

CONF

CONT

CONTR

CJ

CY

DET

DIA

DIM

DN

DS

DESC

DWG

ELEC

EWC

ENGR

EOS

EQ

EXIST

EXP ST

EXP

EXT

FDC

FV

FIN

FF

FE

FΡ

FLR

FD

F/O

FTG

FEC

EJ

EΑ

EL

EΡ

DISP

CONST

CENTER LINE

CLEAR

CLEANOUT

CONCRETE

CORRIDOR

CONFERENCE

CONTINUOUS

CUBIC YARD

DETAIL

DOWN

EACH

DIAMETER

DIMENSION

DISPENSER

DOWNSPOUT

DESCRIPTION

DRAWING

ELEVATION

ENGINEER

EQUAL

EXISTING

EXPOSED

EXTERIOR

CONNECTION

FIELD VERIFY

FINISHED FLOOR

FIRE EXTINGUISHER

FIRE PROTECTION

FLOOR DRAIN

FIRE EXTINGUISHER CABINET

FINISH

FLOOR

FACE OF

FOOTING

SECTION NUMBER

- DWG. NO. WHERE

SECTION IS DRAWN

EPOXY PAINT

EDGE OF SLAB EQUIPMENT

EXPANSION JOINT

FIRE DEPARTMENT

CONTRACTOR

CONTROL JOINT

CONSTRUCTION

COLUMN

CERAMIC TILE

ABOVE FINISHED FLOOR **FOUNDATION** ADAAG AMERICAN W/ DISABILITIES GΑ GAGE / GAUGE ACCESSIBILITY GUIDELINES GALV GALVANIZED GFCI ADJUST/ ADJUSTABLE **GOVERNMENT FURNISHED** ACOUSTICAL CEILING TILE **CONTRACTOR INSTALLED** ANOD **ANODIZED** GFGI GOVERNMENT FURNISHED AL / ALUM. ALUMINUM GOVERNMENT INSTALLED **APPROX APPROXIMATE** GL GLASS / GLAZING AR/ARCH ARCHITECTURAL **GOVT** GOVERNMENT AT / FP ANTI TERRORISM / GYP GYPSUM FORCE PROTECTION **GWB** GYPSUM WALL BOARD **HDW AVERAGE HARDWARE**

AUDIO/VISUAL HGT HEIGHT **BLOCKING** НМ HOLLOW METAL **HORIZ** BOARD HORIZONTAL **BOTTOM** HB HOSE BIBB **BOTTOM OF** HVAC **HEATING VENTILATION &** BUILDING AIR CONDITIONING IMP CONTRACTOR FURNISHED INSULATED METAL PANEL CONTRACTOR INSTALLED IN COLD FORMED INSUL INSULATION METAL FRAMING INT INTERIOR **CARPET** JAN JANITOR CEILING JANITOR'S CLOSET CLG HT CEILING HEIGHT JOINT ΚP CENTER KICK PLATE

LAM LAMINATE LDG LANDING LAV LAVATORY LEFT HAND LH LHR LEFT HAND REVERSE LGT LENGTH LIGHT CONCRETE MASONRY UNIT LTG LIGHTING LONG LONGITUDINAL LVR LOUVER L/V LOW VOLTAGE MAS MASONRY MO MASONRY OPENING MGR MANAGER **MANUF** MANUFACTURER MATL MATERIAL **MAXIMUM**

MAX **MECH** MTL MWP MB MIN MIR ELECTRICAL OR ELECTRIC MISC N.I.C. ELECTRIC WATER COOLER NO. (#) NTS NFPA O.C. **OFCI** OFGI **EXPOSED TO STRUCTURE**

OPNG

OSHA

O/D

PNL

PART

PLAS

PLAM

PT / PNT

OPP

O.D.

MECHANICAL

MINI BLIND

MINIMUM

MIRROR

NUMBER

METAL WALL PANEL

MISCELLANEOUS

NOT TO SCALE

NATIONAL FIRE

ON CENTER

OPENING

PAINT

PAIR

PANEL

PARTITION

PLASTIC

OVHD / OH OVERHEAD

OPPOSITE

NOT IN CONTRACT

OWNER FURNISHED

OWNER FURNISHED

OUTSIDE DIAMETER

AND HEALTH ACT

OVERFLOW DRAIN

PLASTIC LAMINATE

OCCUPATIONAL SAFETY

OPPOSITE HAND

PROTECTION ASSOCIATION

CONTRACTOR INSTALLED

GOVERNMENT INSTALLED

METAL

PLPLATE PLMB **PLUMBING** PLYWD. PLYWOOD PORCELAIN TILE PT LBS. OR # POUNDS PSF

POUNDS / SQUARE FOOT PSI POUNDS / SQUARE INCH PEMB PRE-ENGINEERED METAL BUILDING PREFABRICATED Q.T. **QUARRY TILE** RAF RAISED ACCESS FLOOR **RCPT** RECEPTIONIST / RECEPTION REF REFERENCE REINF REINFORCEMENT REINFORCED REQ'D REQUIRED **REV** REVISIONS / REVISED

ROOF DRAIN R/DRH RIGHT HAND RHR RIGHT HAND REVERSE RMROOM RO **ROUGH OPENING** RB **RUBBER BASE** SG SAFETY GLASS / GLAZING SC SEALED CONCRETE **SCHED** SCHEDULE SECTION **SECT** SSK SERVICE SINK SIM SIMILAR STC SOUND TRANSMISSION CLASS

SPECIFICATION SPEC(S) **SFRM** SPRAYED FIRE RESISTIVE MATERIAL SQ **SQUARE** ST STAIN S.S. STAINLESS STEEL STD STANDARD STL STEEL **STOR STORAGE** STR STRUCTURAL SUSP SUSPENDED TELECOMM TELECOMMUNICATIONS TEL **TELEPHONE** THK THICK / THICKNESS

TOILET

TLT

WD

WDW

W/O

WRGB

YD

ELEVATION

EXTERIOR ELEVATION MARK

- DWG. NO. WHERE

ELEVATION IS DRAWN

NUMBER

TOP OF T/O TYP TYPICAL **UNDERWRITERS** U.L. LABORATORIES UNFIN UNFINISHED U.N.O. UNLESS NOTED OTHERWISE **VERT VERTICAL VEST** VESTIBULE VCT VINYL COMPOSITION TILE VINYL COVE BASE WIDTH WDT W/ WITH WC WATER CLOSET

WOOD

YARD

WINDOW

WITHOUT

WATER RESISTANT

GYPSUM BOARD

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.

10. 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.

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.

12. DISSIMILAR METALS SHALL BE ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION. 13. 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. 14. A FINISH INDICATION ON A WALL SHALL MEAN THE ENTIRE LENGTH AND HEIGHT OF WALL IS TO BE FINISHED OR FIRE-RATED AS INDICATED.

15. 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.

16. THE CONTRACTOR SHALL COORDINATE MECHANICAL AND ELECTRICAL FLOOR AND WALL SLEEVES INCLUDING CONDUITS WITH MECHANICAL. ELECTRICAL. PLUMBING. FIRE PROTECTION. STRUCTURAL AND ARCHITECTURAL DRAWINGS

17. PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES AND AS REQUIRED FOR MECHANICAL EQUIPMENT AND PLUMBING WORK

18. 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. 19. 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 20. PROVIDE EXPANSION AND CONTROL JOINTS IN WORK AS PER PRODUCT MANUFACTURER'S STANDARDS

TIMES, AND EXECUTE THE WORK IN SUCH A MANNER TO AVOID ANY HAZARD TO PERSONS AND PROPERTY AS NECESSARY.

APPLICABLE, WITH THE OWNER PRIOR TO START OF SUCH WORK.

MATERIALS

COMPACTED EARTH

CONCRETE BLOCK(CMU)

METAL-LARGE SCALE

ACOUSTICAL TILE

GYPSUM BOARD

ROCK

ROCKFILI

SAND / MORTAR

4 4 4 4 CONCRETE

EXTERIOR INSULATION FINISH SYSTEM

BRICK

METAL-SMALL SCALE

WOOD-FRAMING (CONTINUOUS)

21. THE CONTRACTOR SHALL PLAN HIS/HER WORK TO PROVIDE ADEQUATE PROTECTION FOR PERSONS AND PROPERTY AT ALL

22. THE CONTRACTOR SHALL COORDINATE THE PHASING OF THE WORK TO BE PERFORMED IN OR ABOUT EXISTING FACILITIES, IF

WOOD-BLOCKING (DISCONTINUOUS)

WOOD-FINISH

INSULATION BATT

INSULATION RIGID

CERAMIC TILE

GLASS

PLYWOOD

PLASTER/ROCK LATH

SHEET NAMING CONVENTION

X - 0 0 1 A 2 DIGIT DISCIPLINE 1 DIGIT AREA DESIGNATOR **DESIGNATOR** (IF ONLY ONE LETTER IS (AREA DESIGNATOR ONLY USED, THE SECOND USED WHEN PLANS ARE SUBDIVIDED INTO AREAS. LETTER IS REPLACED WITH A DASH "-" AS A PLACEHOLDER)** -1 DIGIT SHEET TYPE DESIGNATOR 2 DIGIT SEQUENTIAL # (01-99) 0 - GENERAL (FIRST DIGIT INDICATES PLAN 1 - PLANS TYPE. SECOND DIGIT INDICATES 2 - ELEVATIONS 3 - SECTIONS 4 - ENLARGED PLANS 5 - DETAILS 6 - VARIES

SHEET NAMING CONVENTION

8 - SPECIFICATIONS

9 - 3D VIEWS -

BUILDING SECTION MARK

PLAN SYMBOLS:

SYMBOLS:

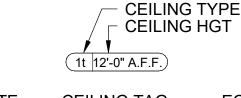
NEW & EXISTING

COLUMN BUBBL

DOOR TAG

PARTITION TYPE SUBSCRIP1 TYPE (AS A1-X REQ) **PARTITION TYPE**

? **KEYNOTI**





ELEVATION

DWG. NO. WHERE

ELEVATION IS DRAWN

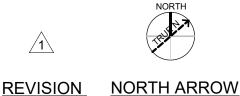
<u>TAG</u>

NUMBER

INTERIOR ELEVATION MARK



<u>TAG</u>



CALLOUT HEAD

VIEW TITLES:

DETAIL IDENTIFIER (MODULE LETTER AND NUMBER) FLOOR PLANS, ELEVATIONS & DETAILS

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

FLOOR PLANS, ELEVATIONS, SECTIONS AND DETAIL VIEWS TITLE

100% ISSUED FOR CONSTRUCTION

(ID#)

\ A-101

ID# 101

ROOM TAG

(A101A)

WINDOW 8

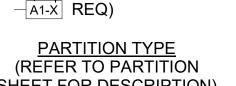
WALL SECTION MARK

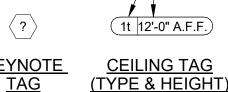
SECTION NUMBER

DWG. NO. WHERE

SECTION IS DRAWN

<u>LOUVER TAG</u> SHEET FOR DESCRIPTION)











DETAIL NUMBER

AREA COVERED

DWG. NO. WHERE

DETAIL IS DRAWN

BY DETAIL

Refuge Pole Barn

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

3500 Parkway Lane

Suite 500

Peachtree Corners

Georgia 30092

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EOR/AOR SEAL

CONSULTANT

CLIENT INFORMATION

US Fish & Wildlife Services

Cameron Prairie

National Wildlife

PROJECT NAME

DESIGNED BY: R. ELLIOTT

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

SHEET TITLE GENERAL NOTES ABBREVIATIONS & SYMBOLS

SHEET NUMBER A-001

SHEET NOTES

- 1. SEE SHEET A-001 FOR GENERAL NOTES, ABRREVIATIONS,
- SYMBOLS AND MATERIALS. 2. DIMENSIONS OF EXTERIOR WALLS ARE TO INSIDE FACE OF
- CMU OR EXTERIOR FINISH FACE U.N.O. 3. DIMENSIONS OF INTERIOR WALLS AND PARTITIONS ARE TO
- FACE OF STUD, FACE OF CMU OR FACE OF IMP U.N.O. 4. 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.
- 5. CONTRACTOR SHALL LOCATE BLOCKING AND BACKING AS REQUIRED FOR WALL MOUNTED EQUIPMENT, CASEWORK/MILLWORK AND FURNISHINGS.
- 6. ROOF MATERIALS & INSTALLATION SHALL COMPLY WITH APPLICABLE CODES & STANDARDS AS SET FORTH BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- 7. ROOF(S) SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT.

⟨#⟩ KEYNOTES

- EXISTING FOUNDATION SEE STRUCTURAL
- 180 DEG MECHANICALLY SEAMED STANDING SEAM METAL
- PREFINISHED FLAT METAL WALL PANEL SYSTEM -CONCEALED FASTENER
- BRACKET MOUNTED FIRE EXTINGUISHER
- PRE-ENGINEERED METAL BUILDING (P.E.M.B) RIGID FRAME
- GALVANIZED
- 8" DIA. x 4' H CONCRETE FILLED STEEL BOLLARD PTD SAFETY YELLOW

POND 3500 Parkway Lane Suite 500 Peachtree Corners Georgia 30092

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US Fish & Wildlife Services

PROJECT NAME

Cameron Prairie National Wildlife Refuge Pole Barn

LA-27 Bell City, LA 70630

DRAWING ISSUE

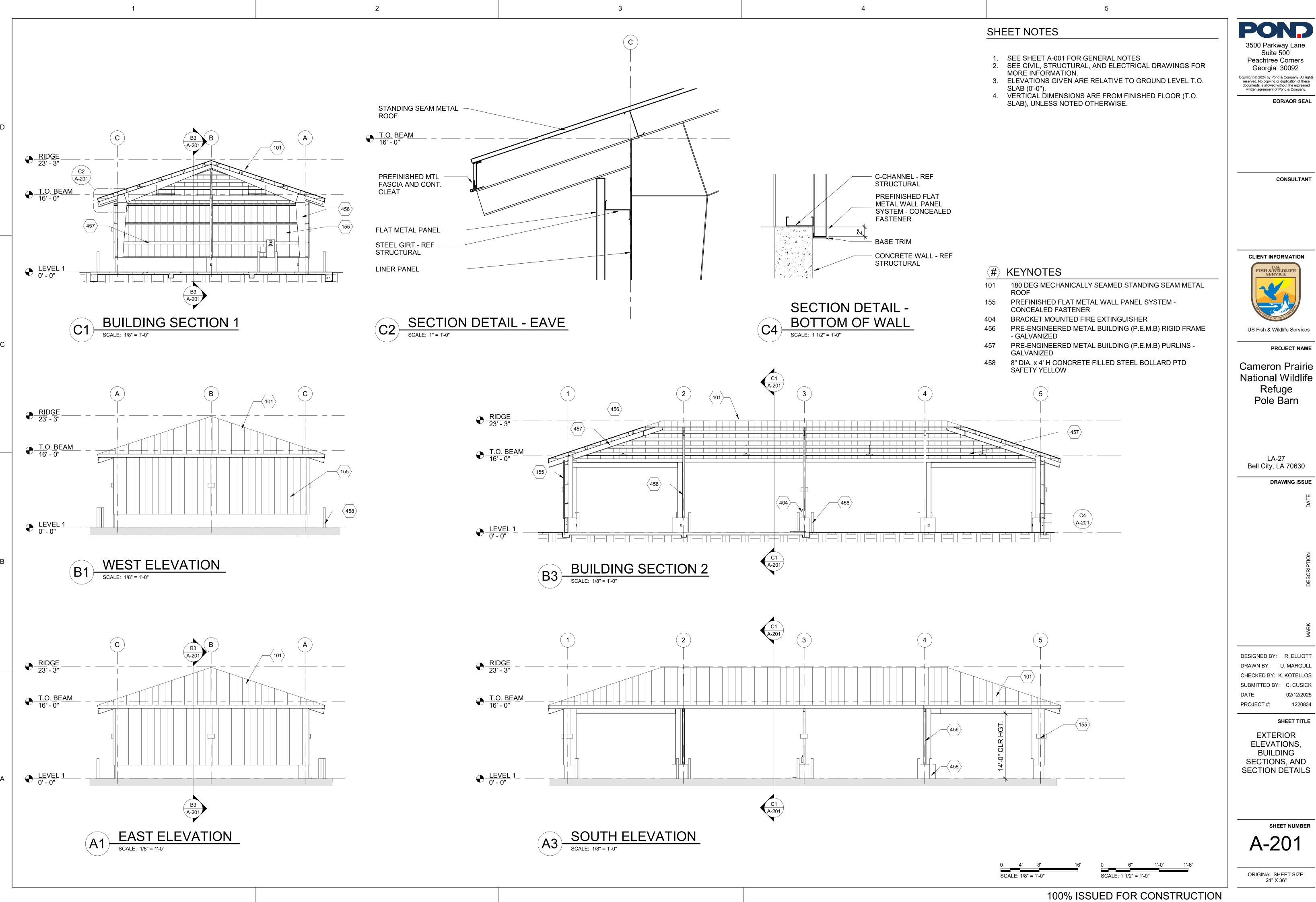
DESIGNED BY: R. ELLIOTT CHECKED BY: K. KOTELLOS

SHEET TITLE

FLOOR PLAN & **ROOF PLAN**

SHEET NUMBER

A-101



CONSULTANT

EOR/AOR SEAL

3500 Parkway Lane Suite 500

Peachtree Corners

Georgia 30092

CLIENT INFORMATION



US Fish & Wildlife Services

PROJECT NAME

Cameron Prairie National Wildlife Refuge Pole Barn

LA-27 Bell City, LA 70630

DRAWING ISSUE

DESIGNED BY: R. ELLIOTT

CHECKED BY: K. KOTELLOS

SHEET TITLE

EXTERIOR ELEVATIONS, BUILDING SECTIONS, AND SECTION DETAILS

SHEET NUMBER

A-201

NOTE:

 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,

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

- 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 LUMINAIRES, AND CORRECT ROUGH-IN LOCATIONS OF ELECTRICAL CONNECTIONS.
- CONTRACTOR MUST BE RESPONSIBLE FOR VERIFYING CATALOG NUMBERS ON THESE DRAWINGS TO MATCH WITH MATERIAL DESCRIPTIONS INDICATED.
- 5. 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.
- 6. 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.
- 7. REFER TO ONE-LINE DIAGRAMS, SCHEDULES AND RISER DIAGRAMS FOR CONDUCTOR AND CONDUIT SIZES NOT SHOWN ON PLANS.
- 8. 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.
- 9. ALL CONDUCTORS MUST BE COPPER UNLESS SPECIFICALLY NOTED AS ALUMINUM.
- 10. CONTRACTOR MUST FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE PROCUREMENT OF ANY MATERIALS AND DEVELOPMENT OF ANY SHOP DRAWINGS OR SUBMITTALS.
- 11. PROVIDE LABELS ON ALL RECEPTACLES, WALL MOUNTED LIGHT SWITCHES 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.

ELECTRIC	CAL ABBREVIATIONS		
A or AMP	AMPERE(S)	HZ	HERTZ
AC .	AIR COMPRESSOR or AIR CURTAIN or ALTERNATING CURRENT	IDS IMC	INTRUSION DETECTION SYSTEM INTERMEDIATE METAL CONDUIT
ACC	AIR COOLED CHILLER	IRH	INFRARED HEATER
AF AFF	AMP FRAME ABOVE FINISHED FLOOR	J OR JB K	JUNCTION BOX KILO
AFG	ABOVE FINISHED GRADE	KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY
AHU AIC	AIR HANDLING UNIT AMPERE INTERRUPTING CAPACITY	KCMIL KEF	THOUSAND OF CIRCULAR MILS KITCHEN EXHAUST FAN
AL	ALUMINUM	KH	KITCHEN HOOD
AM ASYM	AMMETER ASYMMETRICAL	KK KV	KIRK KEY INTERLOCK KILOVOLT
ΑT	AMP TRIP	KVA	KILOVOLT AMPERES
ATS AUTO	AUTOMATIC TRANSFER SWITCH AUTOMATIC	KVAR KW	KILOVOLT AMPERES REACTIVE KILOWATT
WG	AMERICAN WIRE GAUGE	KWHR	KILOWATT-HOUR
3 3C	BOILER BRANCH CONTROLLER	L LA	LENGTH LIGHTNING ARRESTOR
BCW	BARE COPPER WIRE	LAN	LOCAL AREA NETWORK
BFF BFG	BELOW FINISHED FLOOR BELOW FINISHED GRADE	LAV LS	LAVATORY LONG TIME, SHORT TIME
BLDG	BUILDING	LSI	LONG TIME, SHORT TIME & INSTANTANEOUS
CAT	CONDUIT CATEGORY	LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS & GROUND FAULT
CB CCT	CIRCUIT BREAKER CORRELATED COLOR TEMPERATURE	LTG MAU	LIGHTING MAKE-UP AIR UNIT
CCTV	CLOSED CIRCUIT TELEVISION	MAX	MAXIMUM
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	MCA MCB	MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER
CH	CHILLER	MCC	MOTOR CONTROL CENTER
CHWCP CHWP	CHILLED WATER CIRCULATING PUMP CHILLED WATER PUMP	MGB MH	MAIN GROUND BAR MANHOLE
CHWSP	CHILLED WATER SUPPLY PUMP	MIN	MINIMUM
CKT CMH	CIRCUIT COMMUNICATIONS MANHOLE	MLO MOD	MAIN LUGS ONLY MOTOR OPERATED DAMPER
CP	CONDENSATE PUMP	MRS	MOTOR RATED SWITCH
CPT CRAC	CONTROL POWER TRANSFORMER COMPUTER ROOM AC UNIT	MT or MTD N	MOUNT or MOUNTED NEUTRAL
CRI	COLOR RENDERING INDEX	N/A	NOT APPLICABLE
CT CU	CURRENT TRANSFORMER or COOLING TOWER COPPER	NC NEC	NORMALLY CLOSED NATIONAL ELECTRICAL CODE
CWP	CONDENSER WATER PUMP	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S
))C	DEPTH DIRECT CURRENT	NESC	ASSOCIATION NATIONAL ELECTRICAL SAFETY CODE
)F	DESTRATIFICATION FAN	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OH OHWCP	DUCT HEATER or DEHUMIDIFIER DOMESTIC HOT WATER CIRCULATING PUMP	NL NO	NIGHT LIGHT NORMALLY OPEN
DISC	DISCONNECT SWITCH	NTS	NOT TO SCALE
DOAS DPDT	DEDICATED OUTSIDE AIR SYSTEM DOUBLE POLE DOUBLE THROW	P PA	POLE(S) or PUMP PUBLIC ADDRESS
PST	DOUBLE POLE SINGLE THROW	PDU	POWER DISTRIBUTION UNIT
DSCU DSHP	DUCTLESS SPLIT CONDENSING UNIT DUCTLESS SPLIT HEAT PUMP	PF PH	POWER FACTOR PHASE
OSS	DUCTLESS SPLIT SYSTEM (INDOOR UNIT)	PIU	PRIMARY INDUCTION UNIT (VAV TERMINAL UNIT)
DUH DWBP	DUCT UNIT HEATER DOMESTIC WATER BOOSTER PUMP	PMT PNL	PAD MOUNTED TRANSFORMER PANEL OR PANELBOARD
)X For EMED	DIRECT EXPANSION COOLING COIL	PTAC PVC	PACKAGED THRU-WALL AIR CONDITIONER POLYVINYL CHLORIDE
or EMER EC	EMERGENCY EMPTY CONDUIT	RECP	RECEPTACLE
F LEC	EXHAUST FAN ELECTRICAL	RF RH	RETURN FAN RADIANT HEATERS (ELECTRIC)
EMEW	EMERGENCY EYEWASH	RMC	RIGID METAL CONDUIT
EMH EMSH	ELECTRICAL MANHOLE EMERGENCY SHOWER	RMS RTU	ROOT MEAN SQUARE ROOF TOP UNIT
EMT	ELECTRICAL METALLIC TUBING	RVNR	REDUCED VOLTAGE NON-REVERSING
epa Equip	EFFECTIVE PROJECTED AREA EQUIPMENT	SA SBB	SURGE ARRESTOR SECONDARY BONDING BAR
ERU	ENERGY RECOVERY UNIT	SCCR	SHORT CIRCUIT CURRENT RATING
ERV ESEW	ENERGY RECOVERY VENTILATOR EMERGENCY SHOWER / EYEWASH	SD SF	SMOKE DAMPER SUPPLY FAN
EUH	ELECTRIC UNIT HEATER	S/N	SOLID NEUTRAL
EWC EWH	ELECTRIC WATER COOLER ELECTRIC WATER HEATER	SP SPD	SUMP PUMP SURGE PROTECTIVE DEVICE
X or EXIST	EXISTING	SPDT	SINGLE POLE DOUBLE THROW
EXP :	EXPLOSION PROOF FUSE	SPEC SPST	SPECIFICATIONS SINGLE POLE SINGLE THROW
ACP CU	FIRE ALARM CONTROL PANEL FAN COIL UNIT	SWBD SWGR	SWITCHBOARD SWITCHGEAR
ELEX	FLEXIBLE	TMGB	TELECOMMUNICATIONS MAIN GROUNDING
WE or GND	FURNISHED WITH EQUIPMENT GROUND	TOL	BUSBAR THERMAL OVERLOAD
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TP	TWISTED PAIR
GUH GWH	GAS UNIT HEATER GAS WATER HEATER	TYP U	TYPICAL URINAL
l or HT	HEIGHT	UG	UNDERGROUND
HAC HOA	HEATED AIR CURTAIN HAND-OFF AUTOMATIC	UH UIO	UNIT HEATER UNLESS INDICATED OTHERWISE
I P	HORSE POWER or HEAT PUMP	UL	UNDERWRITERS LABORATORY
ℲΤ ℲVU	HEAT TRACKING HEATING/VENTILATING UNIT	UTP V	UNSHIELDED TWISTED PAIR VOLTS
HWCP	HEATING WATER CIRCULATING PUMP	VA	VOLT AMPERES
∃WP ∃WRP	HEATING WATER PUMP HOT WATER RECIRCULATION PUMP	VAR VAV	VOLT AMPERES REACTIVE VAV TERMINAL UNIT
HWSP	HEATING WATER SUPPLY PUMP	VEF	VEHICLE EXHAUST FAN
HWUH	HOT WATER UNIT HEATER	VM VRF	VOLTMETER VARIABLE REFRIGERANT FLOW SYSTEM
		W	WATTS or WIRE
		WC WEF	WATER CLOSET WELDING EXHAUST FAN
		WH	WATER HEATER
		WHDM WP	WATTHOUR DEMAND METER WEATHERPROOF
		WSHP	WATER SOURCE HEAT PUMP
		XFMR 7	TRANSFORMER IMPEDANCE

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EOR/AOR SEAL

CONSULTANT

U.S.
FISH & WILDLIFE
SERVICE

Us Fish & Wildlife Services

PROJECT NAME

Cameron Prairie National Wildlife Refuge Pole Barn

> LA-27 Bell City, LA 70630

DRAWING ISSUE

IPTION

MARK

DESIGNED BY: J. REYES
DRAWN BY: J. REYES
CHECKED BY: J. WILLIAMS
SUBMITTED BY: C. CUSICK
DATE: 02/12/2025

PROJECT #: 1220834

SHEET TITLE

ELECTRICAL GENERAL NOTES AND ABBREVIATIONS

SHEET NUMBER

E-001

ORIGINAL SHEET SIZE: 24" X 36"

IMPEDANCE

FINISHED FLOOR

52" CEILING FAN WITHOUT LIGHTS AND REMOTE

SHEET NUMBER E-002

EOR/AOR SEAL

CONSULTANT

PROJECT NAME

LA-27

DRAWING ISSUE

J. REYES

J. REYES

02/12/2025

SHEET TITLE

1220834

ORIGINAL SHEET SIZE: 24" X 36"

100% ISSUED FOR CONSTRUCTION

SHEET NOTES

- REFER TO SHEETS E-001 AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS & LEGEND.
- REFER TO SHEET E-601 FOR ELECTRICAL FEEDER SCHEDULE, ONE-LINE DIAGRAM, AND LUMINAIRE SCHEDULE.
- 3. ALL ELECTRICAL CONDUITS SHALL BE RMC WITH STAINLESS STEEL FASTENERS.

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Georgia 30092

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U.S.
FISH & WILDLIFE SERVICE

Us Fish & Wildlife Services

PROJECT NAME

Cameron Prairie National Wildlife Refuge Pole Barn

LA-27 Bell City, LA 70630

DRAWING ISSUE

CRIPTION

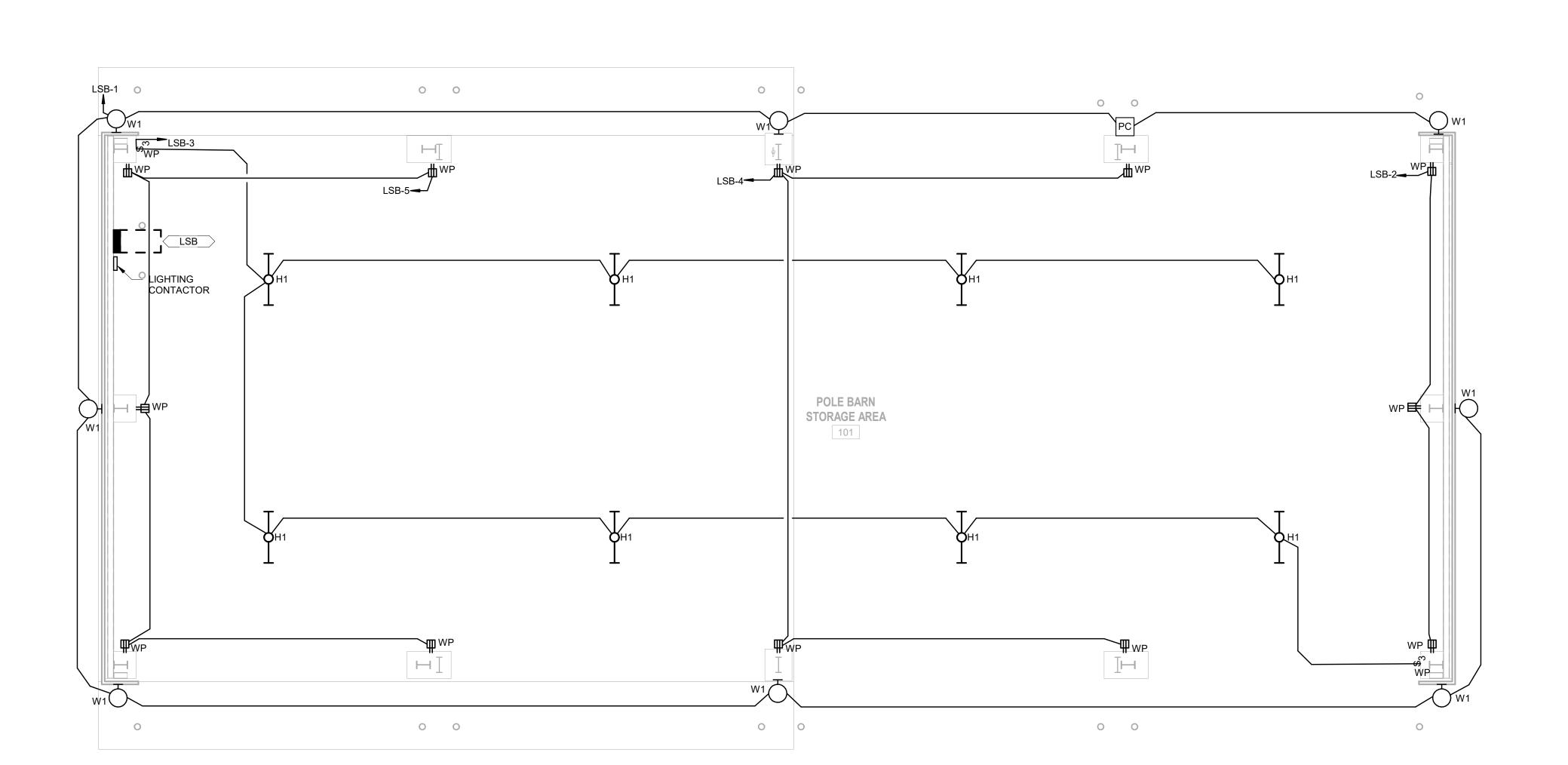
MARK

DESIGNED BY: J. REYES
DRAWN BY: J. REYES
CHECKED BY: J. WILLIAMS
SUBMITTED BY: C. CUSICK
DATE: 02/12/2025

SHEET TITLE

ELECTRICAL LIGHTING AND POWER PLAN

SHEET NUMBER
E-111





SHEET NOTES

EXAMPLE:

150A MCB, 208V, 3Ø, 4W, 10KAIC SOURCE: T-P21A

 REFER TO SHEETS E-001 AND E-002 FOR ELECTRICAL GENERAL NOTES, ABBREVIATIONS & LEGEND. 3500 Parkway Lane Suite 500 Peachtree Corners

Georgia 30092

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U.S.
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Us Fish & Wildlife Services

PROJECT NAME

Cameron Prairie National Wildlife Refuge Pole Barn

LA-27 Bell City, LA 70630

DRAWNO IOOU

DRAWING ISSUE Ш

SCRIPTION

J. REYES

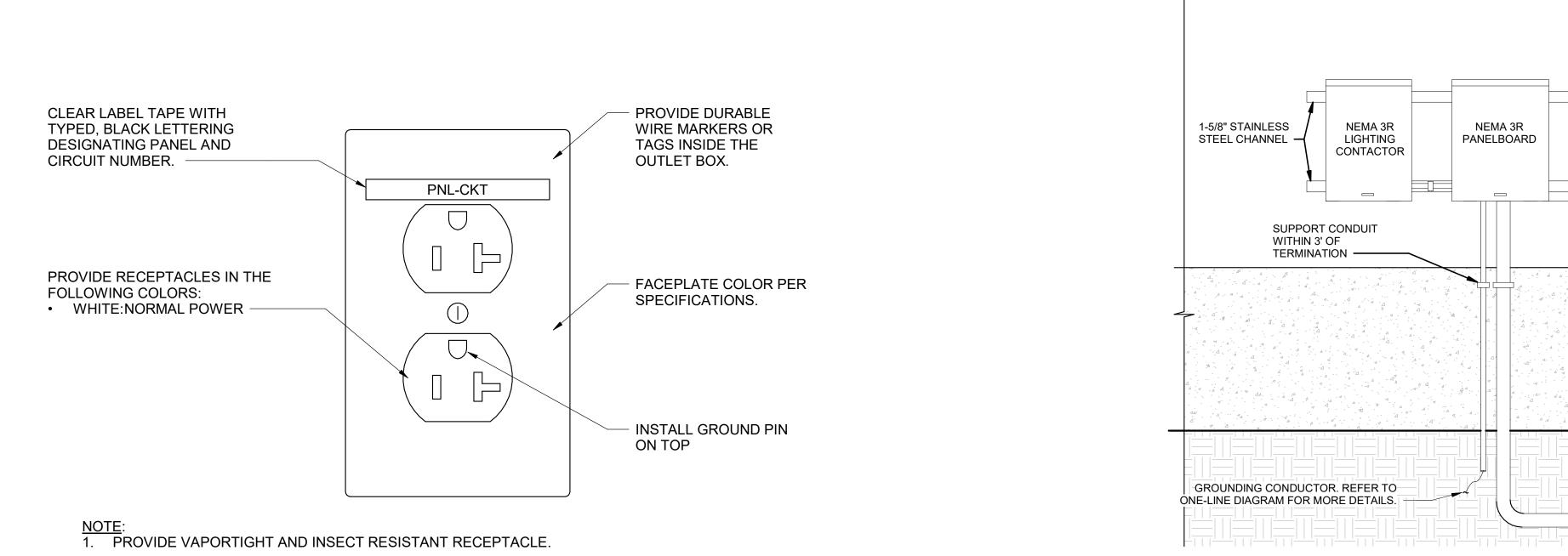
DESIGNED BY: J. REYES
DRAWN BY: J. REYES
CHECKED BY: J. WILLIAMS
SUBMITTED BY: C. CUSICK
DATE: 02/12/2025
PROJECT#: 1220834

SHEET TITLE

ELECTRICAL DETAILS

E-501

ORIGINAL SHEET SIZE: 24" X 36"



ELECTRICAL EQUIPMENT RACK WITH GROUNDING SCALE: N.T.S.

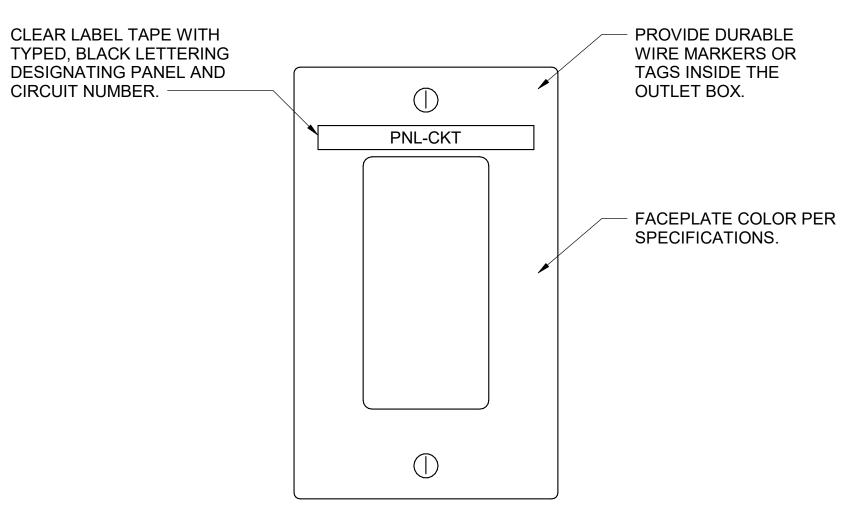
PRE-ENGINEERED

METAL WALL

CAST-IN-PLACE

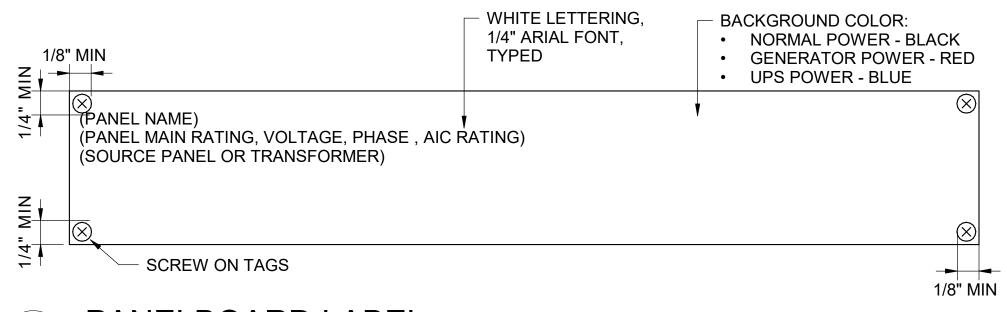
CONCRETE WALL

LOOSE FILL



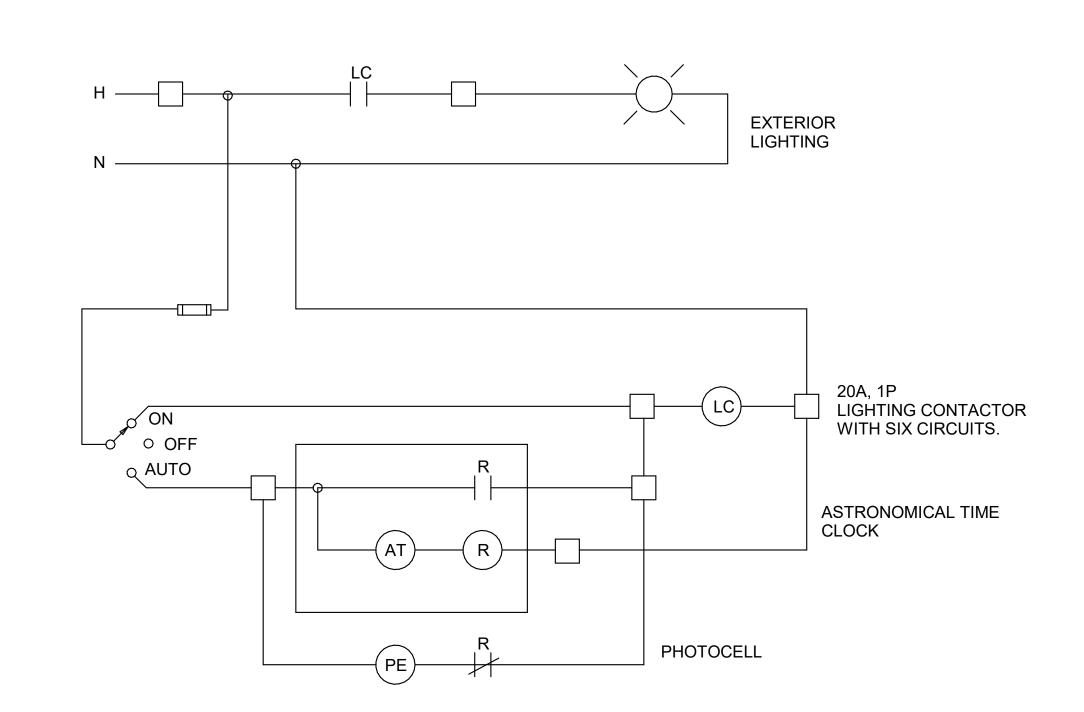
NOTE:
1. PROVIDE VAPORTIGHT AND INSECT RESISTANT LIGHT SWITCH.

B3 LIGHT SWITCH DETAIL (TYP) SCALE: N.T.S.



PANELBOARD LABEL

SCALE: 12" = 1'-0"



A1 EXTERIOR LIGHTING CONTROL SCHEMATIC SCALE: N.T.S.

RECEPTACLE DETAIL (TYP)

100% ISSUED FOR CONSTRUCTION

FEE	DER 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.
350CU	4-500 KCMIL & 1#2G, 4"C.
400CU	4-500 KCMIL & 1#2G, 4"C.
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

1. FEEDER TAGS WITH A " * " IN THE TAG HAVE BEEN INCREASED IN SIZE TO ACCOUNT FOR VOLTAGE DROP.

1600CU

2000CU

FOUR 350 KCMIL AND ONE 3/0G FIVE 4-INCH CONDUITS, EACH WITH

FOUR 500 KCMIL AND ONE 4/0G

SIX 4-INCH CONDUITS, EACH WITH FOUR 500 KCMIL AND ONE 250KCMIL G

- 2. 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.
- 3. ALUMINUM CONDUCTORS ARE NOT PERMITTED TO BE USED FOR MECHANICAL EQUIPMENT OR ANY OTHER EQUIPMENT REQUIRING FLEXIBLE CONNECTIONS.

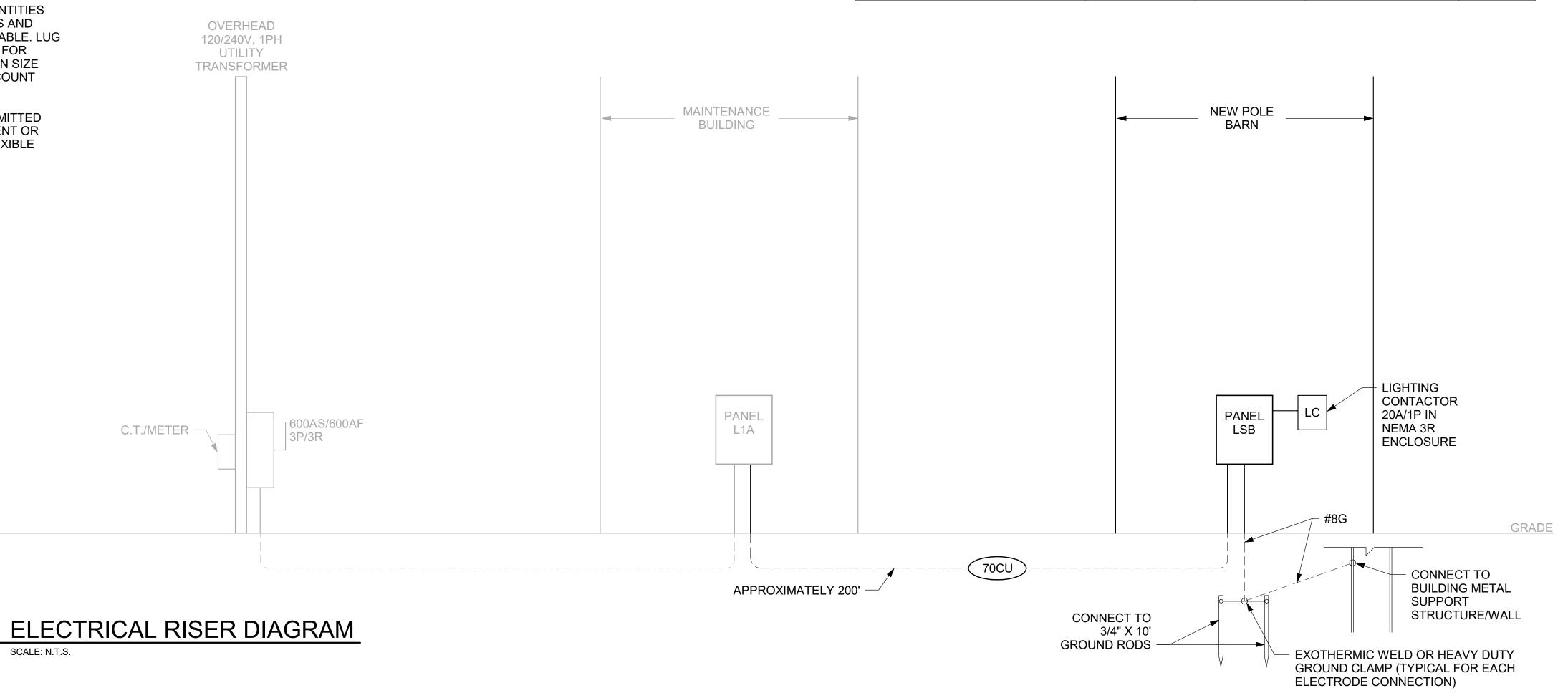
					LU	MINAIRE	SCHED	JLE		
FIXTURE	DESCRIPTION	LAMP	LUMENS	CRI	CCT	VOLTAGE	WATTAGE	MOUNTING	MANUFACTURER	NOTES
H1	LED VAPOR TIGHT, WHITE FINISH	LED	8000	80	4000	MVOLT			LITHONIA LIGHTING FEM-L48-8000LM-LPACL-WD-MVOLT-GZ10-40K-80CRI-STSL	1, 2
W1	LED WALL PACK ,BLACK FINISH	LED	1200	80	4000	MVOLT	48 W		LITHONIA LIGHTING WDGE2 LED-P3-40K-80CRI-VF-MVOLT-DBLXD	1

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. LUMINAIRE SHALL BE UL LISTED FOR DAMP LOCATIONS.

				CON	NECTE	D LOAD	KVA				
СКТ	CIRCUIT DESCRIPTION	TRIP	POLE	1	A	ı	В	POLE	TRIP	CIRCUIT DESCRIPTION	СКТ
1	WALL PACKS	20 A	1	0.38	0.54			1	20 A	RECEPTACLES	2
3	LIGHTING	20 A	1			0.40	0.72	1	20 A	RECEPTACLES	4
5	RECEPTACLES	20 A	1	0.90	0.00			1	20 A	SPARE	6
7	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	8
9	SPARE	20 A	1	0.00	0.00			1	20 A	SPARE	10
11	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	12
13	SPARE	20 A	1	0.00	0.00			1	20 A	SPARE	14
15	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	16
17	SPARE	20 A	1	0.00	0.00			1	20 A	SPARE	18
19	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	20
21	SPARE	20 A	1	0.00	0.00			1	20 A	SPARE	22
23	SPARE	20 A	1			0.00	0.00	1	20 A	SPARE	24
25	SPACE		1					1		SPACE	26
27	SPACE		1					1		SPACE	28
29	SPACE		1					1		SPACE	30
NOTES:		TOTAL	. LOAD:	1.6	82	1.	12]			
ad Class	ification		Conne	cted Lo	oad	Esti	mated	Demand		Panel Totals	
ghting			0.7	79 kVA			0.79 k	VA		Total Conn. Load: 2.94	↓ kVA
	eral Purpose		2 1	16 kVA			2.16 k	VA		Total Est. Demand Load: 2.94	1 k\/Δ

		LOCATION: MAINTENANCE SUPPLY FROM: UTILITY XFMR MOUNTING: SURFACE ENCLOSURE: NEMA 1	EBLDG	MAINS RATING: 400A MCB VOLTAGE: 240/120 PHASES: 1 WIRES: 3							MINIMUM BREAKER SCCR: 10,000			
					CON	NECTE	D LOAD	KVA						
	СКТ	CIRCUIT DESCRIPTION	TRIP	POLE		A		3	POLE	TRIP	CIRCUIT DESCRIPTION	СКТ		
	1	EXISTING LOAD	20 A	1	1.00	2.70			2	50 A	EXISTING LOAD	2		
	3	EXISTING LOAD	20 A	1			1.00	2.70		-		4	T	
	5	EXISTING LOAD	50 A	2	2.70	4.80			2	60 A	EXISTING LOAD	6	T	
	7						2.70	4.80				8	T	
	9	SPARE	20 A	1	0.00	2.70			2	50 A	EXISTING LOAD	10	T	
	11	EXISTING LOAD	20 A	1			1.20	2.70		-		12	Т	
	13	EXISTING LOAD	20 A	1	1.20	1.35			2	40 A	EXISTING LOAD	14	T	
	15	EXISTING LOAD	20 A	1			1.20	1.35				16		
	17	EXISTING LOAD	20 A	1	1.20	1.82			2	70 A	NEW PANEL LSB	18		
	19	EXISTING LOAD	20 A	1			0.70	1.12				20		
	21	EXISTING LOAD	60 A	2	4.80	0.40			1	20 A	EXISTING LOAD	22		
	23						4.80	0.12	1	20 A	EXISTING LOAD	24		
	25	EXISTING LOAD	20 A	1	1.20	0.60			1	20 A	EXISTING LOAD	26		
	27	EXISTING LOAD	20 A	2			1.20	0.90	1	20 A	EXISTING LOAD	28		
	29				1.20	1.80			2	20 A	EXISTING LOAD	30		
	31	EXISTING FISH LAB PNL	90 A	2			5.80	1.80				32		
	33				5.60	1.20			1	20 A	EXISTING LOAD	34		
	35	EXISTING LOAD	20 A	1			0.00	1.20	1	20 A	EXISTING LOAD	36		
	37	EXISTING LOAD	20 A	1	1.00	1.00			1	20 A	EXISTING LOAD	38		
	39	EXISTING LOAD	20 A	1			1.00	1.00	2	30 A	EXISTING LOAD	40		
	41	EXISTING LOAD	30 A	1	1.50	1.00						42	L	
N	OTES:		TOTAL	LOAD:	40	.77	37	.29						
		ification			cted Lo	oad	Esti		Demand	I	Panel Totals	-		
Lighti					'9 kVA			0.79 k			Total Conn. Load: 78			
		eral Purpose			6 kVA			2.16 k			Total Est. Demand Load: 78			
Recp - General Purpose Spare				75.12 kVA		75.12 kVA		VA Total Conn. Current: 3		25 A				



SHEET NOTES

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

3500 Parkway Lane Suite 500 Peachtree Corners

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CONSULTANT

EOR/AOR SEAL

CLIENT INFORMATION

Us Fish & Wildlife Services

PROJECT NAME

Cameron Prairie National Wildlife Refuge Pole Barn

Bell City, LA 70630

DRAWING ISSUE

DESIGNED BY: J. REYES DRAWN BY: J. REYES CHECKED BY: J. WILLIAMS SUBMITTED BY: C. CUSICK DATE: 02/12/2025

PROJECT #:

SHEET TITLE

1220834

ELECTRICAL FEEDER SCHEDULES AND ONE-LINE DIAGRAM

SHEET NUMBER

E-601