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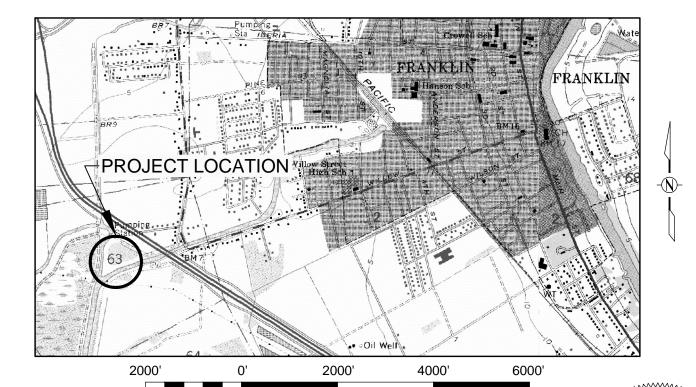
LICENSURE CLASSIFICATION REQUIREMENTS:

MAJOR CLASSIFICATION: HEAVY CONSTRUCTION

HEAVY CONSTRUCTION:

STATE OF LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY

Franklin Canal Flood Protection System PHASE II – PUMP STATION PROJECT# TV-52 St. Mary Parish, Louisiana









			Shaw Environmental & Infrastructure, Inc.		ROTECTION AND ON AUTHORITY	TITLE SHEET	
				450 LA	AUREL STREET	STATE PROJECT NUMBER: TV-52	
(08/16/13	ISSUED FOR CONSTRUCTION MCD	OFFICE LOCATIONS: 197 ELYSIAN DRIVE 4171 ESSEN LANE	BATON ROUGE, LOUISIANA 70801			DATE: AUGUST 2013
RE	/. DATE	DESCRIPTION BY		DRAWN BY: TOT	DESIGNED BY: MCD	APPROVED BY:	SHEET G-001



CHIEF - ENGINEERING DIVISION

ENGINEER MANAGER

ENGINEER SUPERVISOR

PROJECT ENGINEER

4G\CLIENT\St. Mary Parish\St Mary Levee District\Franklin Canal Pump Station\AutoCAE

	Base Bid						
Item No.	Description	Quantity	Unit				
1							
2	Surveying	1	LS				
3	Limestone Surface Course	145	CY				
4	Geotextile Separator	812	SY				
5	Temporary Silt Fencing	620	LF				
6	18" Square Precast Prestressed Concrete (PPC) Piles	841	LF				
7	12" Diameter Steel Pipe Piles	144	LF				
8	Articulated Concrete Block Revetment	1395	SF				
9	Precast Concrete Capsills	3	EA				
10	Precast Concrete Deck, 10.5"	450	SF				
11	Precast Concrete Deck, 10"	276	SF				
12	Trash Screen	1	LS				
13	Pre-engineered Metal Building - 18'x25'	1	LS				
14	Walkway Extension	1	LS				
15	Pump Station Handrail	46	LF				
16	Pump System	2	LS				
17	Discharge Pipe System, Pump 1	1	LS				
18	Discharge Pipe System, Pump 2	1	LS				
19	Natural Gas Supply	1	LS				
20	Electrical Service and Amenities	1	LS				
21	Discharge Pipe Supports, Flood Side	1	LS				
22	Discharge Pipe Supports, Protected Side	2	EA				
23	Discharge Pipe Supports, Under Deck	2	EA				
24	Seeding and Fertilizing	1.1	AC				
25	Placement of Onsite Riprap	1	LS				
26	East Side Walkway	1	LS				

	Alternate No. 1		
Item No.	Description	Quantity	Unit
27	Deck Opening Cover Plate	2	EA
28	Geotextile Separator	58	SY
29	18" Square Precast Prestressed Concrete (PPC) Piles	561	LF
30	Articulated Concrete Block Revetment	525	SF
31	Precast Concrete Capsills	2	EA
32	Precast Concrete Deck, 10.5"	450	SF
33	Precast Concrete Deck, 10"	276	SF
34	Deduction For Pre-engineered Metal Building 18'x25'	1	LS
35	Pre-engineered Metal Building 18'x50'	1	LS
36	Pump Station Handrail	25	LF
37	Discharge Pipe Supports, Protected Side	7	EA
38	Discharge Pipe Supports, Under Deck	2	EA
39	Trash Screen	1	LS
40	12" Diameter Steel Pipe Piles	506	LF
41	Electrical Service and Amenities	1	LS
42	Deduction For East Side Walkway	1	LS

Alternate No. 2									
ltem No.	Quantity	Unit							
43	Deduction For Deck Opening Cover Plate	1	EA						
44	Pump System No. 3	1	LS						
45	Discharge Pipe System, Pump 3	1	LS						

Alternate No. 3									
Item No.	Item No. Description								
46	Deduction For Deck Opening Cover Plate	1	EA						
47	Pump System No. 4	1	LS						
48	Discharge Pipe System, Pump 4	1	LS						

QUANTITIES SHOWN ARE FOR BID PURPOSES ONLY. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES HIGHER OR LOWER WITHOUT ADJUSTMENT OF THE UNIT PRICE.

F				Shaw Environmental & Infrastructure, Inc.	RESTORATION AUTHORITY 450 LAUREL STREET		SUMMARY OF ESTIMATED BID QUANTITIES	
-	-		-	(STATE PROJECT NUMBER: TV-52	
┢	0 08/16/1	3 ISSUED FOR CONSTRUCTION	мср	OFFICE LOCATIONS:	BATON ROU	GE, LOUISIANA 70801		DATE: AUGUST 2013
R	V. DATE	DESCRIPTION	BY	197 ELYSIAN DRIVE 4171 ESSEN LANE HOUMA, LA. 70363 BATON ROUGE, LA 70809 PHONE: 985.868.3434 PHONE: 225.932.2758	DRAWN BY: TOT	DESIGNED BY: MCD	APPROVED BY:	SHEET G-002



SCOPE OF WORK

1. CONTRACTOR WILL VISIT THE SITE PRIOR TO BID AND REVIEW THE PLANS & SPECIFICATIONS OF THE WORK AT THE PLANE STATION SITE.

UTILITIES

- 1. LOCATION OF UTILITIES INDICATED ON THE PLAN SHEETS ARE FOR INFORMATIONAL PURPOSES ONLY AND RE BASED, IN PART, ON INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES BEFORE STARTING CONSTRUCTION.
- 3. CONTRACTOR SHALL CONTACT OWNER OF ALL AFFECTED UTILITY COMPANIES AT LEAST THREE (3) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION AROUND THEIR RESPECTIVE UTILITIES: a) LOUISIANA ONE-CALL: 1-800-272-3020
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, SCHEDULING, AND NOTICES TO UTILITY OWNERS.
- 5. EXISTING UTILITIES SHALL BE RELOCATED BY UTILITY OWNER IF NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE RESPECTIVE UTILITY COMPANIES FOR THE REMOVAL OR RELOCATION OF THE EXISTING UTILITIES WHICH INTERFERE WITH THE WORK.
- 6. ALL WORK CONDUCTED NEAR HIGH VOLTAGE POWER LINES SHALL BE IN ACCORDANCE WITH EM385-1-1, OSHA AND ELECTRIC UTILITY REQUIREMENTS
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES WHICH OCCURS DURING CONSTRUCTION AND SHALL IMMEDIATELY REPORT ANY DAMAGE TO THE UTILITY ENTITIES. ALL REPAIRS OF THE DAMAGED UTILITIES SHALL BE DONE BY THE RESPECTIVE UTILITY ENTITY. ALL REPAIR COSTS SHALL BE BORNE

MATERIALS:

1. ALL NECESSARY MATERIALS FOR COMPLETION OF THIS PROJECT TO BE FURNISHED BY THE CONTRACTOR.

INSTALLATION:

- . INSTALLATION SHALL BE IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DRAWINGS AND SPECIFICATIONS.
- 2. GUIDE TEMPLATE PILING AND TIMBERS SHALL BE FURNISHED BY CONTRACTOR AT NO DIRECT PAY TO INSURE PLACEMENT OF PILES WITHIN TOLERANCE.
- 3 GUIDE TEMPLATE PLUNGS SHALL BE CUT AND REMOVED 1'-0" BELOW MUD LINE AT GUIDE TEMPLATE PILINGS SHALL BE CUT AND REMOVED 1-0 BELLOW MUD LINE AT CONTRACTOR'S EXPENSE IF WITHIN 2.5 X DIAMETER CLEAR OF EXISTING AND PROPOSED STELL PIPE PILES 10' CLEAR OF PROPOSED CASSONS FOR RECEIVING STRUCTURE, AND 2 X DIAMETER CLEAR OF PPC PILES.
- 4. CONTRACTOR SHALL BE SOLFLY RESPONSIBLE FOR MEANS. METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION, ENGINEER MAY PROHIBIT AN MEANS AND METHODS THAT IN THE ENGINEER'S OPINION COMPROMISE THE
- 5. CONTRACTOR SHALL MAKE ALL ATTEMPTS POSSIBLE TO MINIMIZE THE CLOSURE OF CANALS TO MARINE TRAFFIC. ANY CLOSURE OF CANALS MUST BE COORDINATED IN ADVANCE WITH THE ENGINEER, SURFACE LEASE HOLDERS & U.S.C.G.
- 6. CONTRACTOR TO MAINTAIN 20 FT. NAVIGABLE CLEAR OPENING AT ALL TIMES

GENERAL NOTES:

- 1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE START OF CONSTRUCTION AND COMPLETELY INFORM HIMSELE RELATIVE TO THE EXISTING CONDITIONS.
- 2. ALL ELEVATIONS ARE GIVEN IN FEET AND REFER TO NORTH AMERICAN VERTICAL DATUM (NAVD 88). 3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, EXISTING ELEVATIONS AND CONDITIONS ON THE PLANS PRIOR TO ORDERING MATERIAL, COMMENCEMENT OF CONSTRUCTION, AND PREPARATION OF SHOP DRAWINGS. THE ENGINEER SHALL BE NOTIFIED OF ALL DISCREPANCIES.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY(S) REQUIRED FOR PROJECT
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND VERIFYING ALL MEASUREMENTS AND GRADES PRIOR TO BEGINNING OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE PROLECT CENTERLINE AND ADDITIONAL TEMPORARY BENCH MARKS FOR CONSTRUCTION PURPOSES.
- THE LINES AND GRADES SHOWN ON THE PLANS MAY BE VARIED SLIGHTLY BY THE ENGINEER IN THE FIELD IF CONDITIONS JUSTIFY SUCH A VARIATION. THE CONTRACTOR SHALL NOT BE ENTITLED TO AN EXTRA PAYMENT OTHER THAN WHATEVER INCREASE IN CONTRACT QUANTITIES IS INVOLVED.
- 7. DIMENSIONS AND/OR ELEVATIONS MARKED (+/-) ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS IN THE FIELD.
- 8. DIMENSIONS AND/OR ELEVATIONS MARKED THUS (N.T.S.) ARE NOT SHOWN TO SCALE.
- THE CONTRACTOR SHALL MAKE HIS OWN INTERPRETATION OF THE CHARACTER AND CONDITION OF THE MATERIALS WHICH WILL BE ENCOUNTERED ELSEWHERE FROM THE BORING AND CONE PENETROMETER TESTS. ACCATIONS THE CONTRACTOR, AT HIS OWN EXPENSE, MAY MAKE ADDITIONAL SURVEYS AND INVESTIGATION AS HE DEEMS NECESSARY TO DETERMINE CONDITIONS WHICH WILL AFFECT THE PERFORMANCE OF THE W
- THE CONTRACTOR SHALL DESIGN AND PROVIDE ANY REQUIRED EXCAVATIONS, COFFERDAMS, AND DEWATERING SYSTEMS THAT ARE ALLOWED BY THE ENGINEER. DESIGN TO BE STAMPED BY PROFESSIONAL ENGINEER IN THE STATE OF LOUISIANA AND TO BE APPROVED BY OWNER'S ENGINEER
- ITEMS OR FEATURES NOTED AS "EXISTING" ON DRAWINGS MAY OR MAY NOT BE EXISTING.
- 2. OWNER RESERVES THE RIGHT TO ACCESS AND INSPECT ALL WORK INCLUDING NON DESTRUCTIVE TESTING ON WELDS.

DESIGN NOTES

- 1. DESIGN SPECIFICATION BUILDING CODE". ACI CONCRETE", AND AISC DESIGN.
- 2. DESIGN CRITERIA: STR ALLOWABLE STRESS I STRENGTH DESIGN MI 3. DESIGN WIND SPEED

STEEL NOTES:

- 1. g.) ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED
- b.) HSS TUBE SHALL CONFORM TO ASTM A500 GR. B.
- c.) W SHAPES ASTM A992, Fy=50 ksi
- CHANNELS, ANGLES, AND PLATES UNLESS NOTED OTHERWISE ASTM A36, Fv=36 ksi.
- ROUND STRUCTURAL TUBES AND STEEL PILES SHALL BE STRUCTURAL PIPE OR FABRICATED FROM STRUCTURAL PLATE. SEAMLESS OR WELDED PIPE, WITH LONGTUDINAL WELDS AND CIRCUMFERENTIAL BUTT WELDS, SHALL CONFORM TO ONE OF THE FOLLOWING -1. API 5L PSL 1 GRADE X42, NO SPIRAL WELDS, Fy=42 ksi. 2. ASTM A500 GRADE B (ROUND) Fy=42 ksi.
- FABRICATED PIPE SHALL BE FABRICATED FROM ONE OF THE FOLLOWING PLATES -ALED PIPE SHALL BE FABRICATED FROM (1. ASTM A572 GRADE 42, Fy=42 ksi. 2. API SPEC 2H GRADE 42, Fy=42 ksi. 3. ASTM A633 GRADE A, Fy=42 ksi.

FABRICATED STRUCTURAL PIPE SHALL BE FABRICATED IN ACCORDANCE WITH API SPEC 2B. HYDROSTATIC

PIPE 12" DIAMETER OR SMALLER SHALL BE ASTM A53 GRADE B, Fy=35 ksi.

- STEEL SHEET PILE HOT ROLLED ASTM A572 GR 50, Fv=50 ksi,
- d.) BOLTS IN STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO ASTM A325, UNLESS NOTED OTHERWISE
- e.) TIMBER PILE BOLTS SHALL CONFORM TO ASTM A307 (GALVANIZED), UNLESS OTHERWISE NOTED. TIMBER PILE WASHERS FOR BOLTS SHALL CONFORM TO CAST OGEE GRAY IRON HOT
- 2. ALL LIFTING HOLES IN STEEL SHEET PILE TO BE FILLED WITH 3/8" PLATE STABBING HOLES IN PERMANENT SECTIONS OF PIPE PILES NOT ALLOWED)
- 3. DIMENSIONS SHOWN OR CALLED FOR ARE FINAL DIMENSIONS: ALLOWANCES MUST BE MADE FOR MACHINING.
- 4. TO PREVENT CORROSION BY MOISTURE BETWEEN STEEL SURFACES IN CONTACT, ALL SUCH CONTACTS SHALL BE SEALED WATERTICHT BY RUNNING A CONTINUOUS 1/8" FILLET WELD ALONG ALL EDGES OF THE CONTACT, UNLESS OTHERWISE NOTED. (DOES NOT INCLUDE PLATED EDGES OR MEMBER ENDS).
- ALL WELDING SHALL BE ELECTRIC WELDING. WORKMANSHIP AND TECHNIQUE, WHERE APPLICABLE, SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE AWS D1.1 OR LATEST VERSION THEREOF, UNLESS OTHERWISE NOTED.
- 6 WELDING SYMBOLS SHOWN ARE THOSE ADOPTED BY THE AMERICAN WELDING SOCIETY AND INDICATE ONLY SIZE AND TYPE OF WELDS REQUIRED. DETAILED INFORMATION SHALL BE SHOWN ON THE SHOP DRAWINGS AND SUBMITTED BY THE CONTRACTOR FOR
- 7. ANCHOR RODS, CONCRETE ANCHORS, CONCRETE BRACKETS, WASHERS, AND NUTS SHALL BE HOT DIPPED GALVANIZED (AFTER FABRICATION) AS PER ASTM A153.
- 8. STRUCTURAL STEEL FABRICATION AND ERECTION SHALL CONFORM TO THE A.I.S.C MANUAL OF STEEL CONSTRUCTION 1.3th EDITION AND API RP2A-WSD, UNLESS NOTED OTHERWISE.
- 9. CONNECTIONS SHALL BE SHOP WELDED UNLESS NOTED OTHERWISE.
- 10. ALL MISCELLANEOUS HARDWARE WHICH IS SPECIFIED TO BE GALVANIZED SHALL BE COATED IN ACCORDANCE WITH ASTM A-153, AFTER FABRICATION. DAMAGED GALVANIZED COATS THAT ARE NOT TO BE EMBEDDED IN MORE THAN THREE (3) INCHES OF CONCRETE SHALL BE REPAIRED WITH COLD APPLIED, ZINC RICH, ORGANIC PAINT, OR OTHER APPROVED METHOD OF REPAIR.
- 11. CONTRACTOR TO PROVIDE PREQUALIFIED FULL PENETRATION BUTT JOINT WELDS TO SPLICE WALKWAY SUPPORT BEAMS & FRAMING.

PRE-CAST PRE-STRESSED CONCRETE

1. PRE-CAST AND PRE-CAST PRE-STRESSED CONCRETE WILL PERFORM TO SATISFY BOTH STRENGTH AND SERVICEABILITY REQUIREMENTS SET FORTH BY AMERICAN CONCRETE INSTITUTE ACI-318, AND THE PRESTRESSED CONCRETE INSTITUTE FOR PRE-CAST CONCRETE.

CATHODIC PROTECTION:

1. NATURAL GAS DISTRIBUTION LINE WILL BE PROTECTED AGAINST GALVANIC CORROSION BY UTILIZING PASSIVE TYPE CATHODIC PROTECTION. DESIGN OF CATHODIC PROTECTION MUST COMPLY WITH ESTABLISHED STANDARDS AND TECHNIQUES.

PILING NOTES:

- 1. SEE STRUCTURAL DRAWINGS FOR THE FOLLOWING: A. PILE CUTOFF ELEVATION C. DESIGN CAPACITY B. TIP ELEVATION
- 2. PILE REQUIREMENTS FOR SIZE, TYPE AND MAXIMUM DESIGN LOADS REQUIREMENTS SHALL BE AS DESCRIBED ON THE PLANS AND IN THE SPECIFICATIONS.
- 3. CONTRACTOR SHALL PROBE AT PILE LOCATIONS TO ENSURE THERE ARE NO SUBSURFACE OBSTRUCTIONS. REMOVAL OF OBSTRUCTIONS AT NO DIRECT PAY.
- 4 TOLERANCES P.P.C. PILES
 - VERTICAL PLUS 0, MINUS 1 INCH LATERAL 1/2 INCH STEEL PIPE PILES

VERTICAL PLUS 0, MINUS 1/2 INCH LATERAL ± 2 INCH

REINFORCEMENT EMBEDMENT AND SPLICE NOTES:

- 1. USE THE BASIC TABLE IF ALL OF THE FOLLOWING CONDITIONS ARE MET:
- A) CENTER TO CENTER BAR SPACING LATERALLY IS AT LEAST 4 BAR DIAMETERS B) CONCRETE COVER IS AT LEAST 2 BAR DIAMETERS, AND
- C) EDGE DISTANCE TO THE FIRST BAR IN A LAYER IS AT LEAST 2 BAR DIAMETERS.
- 2. THE ALTERNATE TABLE MAY BE USED IF ALL OF THE FOLLOWING CONDITIONS ARE MET: A) CENTER TO CENTER BAR SPACING LATERALLY IS AT LEAST 6 BAR DIAMETERS B) CONCRETE COVER IS AT LEAST 2 BAR DIAMETERS, AND C) EDGE DISTANCE TO THE FIRST BAR IN A LAYER IS AT LEAST 2.5 BAR DIAMETERS
- 3. IF CONCRETE COVER OR EDGE DISTANCE IS LESS THAN 2 BAR DIAMETERS OR THE CENTER TO CENTER BAR SPACING LATERALLY IS LESS THAN 4 DIAMETERS, SEE ACI 318 FOR APPROPRIATE GUIDANCE
- 4. TOP BARS ARE HORIZONTAL BARS AND BARS INCLINED LESS THAN 45 DEGREES WITH RESPECT TO A HORIZONTAL PLANE WHICH ARE PLACED SUCH THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.
- 5. THE TABLE SHOWN BELOW 15 FOR NORMAL WEIGHT CONCRETE AND UNCOATED REINFORCING BARS. IF EPOXY COATED BARS ARE USED. SEE ACI 318 FOR ADDITIONAL CONSIDERATIONS

	REINFORCEMENT EMBEDMENT AND SPLICE TABLE										
		BASIC	TABLE	ALTERNATE TABLE							
BAR SIZE	MINIMUM EI LENGTH,		MINIMUM LA		MINIMUM EN LENGTH,		MINIMUM LAP LENGTH INCHES				
	TOP OTHER		TOP OTHE		TOP	OTHER	TOP	OTHER			
5	27	21	35	27	27	21	35	27			
6	32	25	42	32	32	25	42	32			
7	37	29	49	37	37	29	49	37			
8	45	35	59	45	43	33	56	43			
9	57	44	74	57	48	37	63	48			

PAINT SPECIFICATIONS:

- PAINT STRUCTURAL STEEL ENTIRE EXPOSED SURFACE AREA AS REQUIRED IN SPECIFICATIONS.
- STEEL REQUIRING PAINT TO BE "SHOP" PAINTED PRIOR TO INSTALLATION 2.
- REQUIRED FABRICATION TO BE COORDINATED WITH BLASTING AND PAINTING TO AVOID 3. DAMAGE TO COATINGS.
- CONTRACTOR TO BLAST AND PAINT ALL SURFACES WITH DAMAGE TO COATINGS ABOVE THE 4. WATERLINE AFTER FABRICATION IS COMPLETED.
- 5 PAINT SYSTEM: REFER TO TECHNICAL SPECIFICATIONS

CONCRETE NOTES:

- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH (f'c) OF 4000 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED. PRECAST CONCRETE DECK f'c=5000 PSI, PPC PILES IS 6000 PSI
- 2. ALL REINFORCING STEEL SHALL BE ASTM A-615, UNLESS OTHERWISE NOTED.
- 3. REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH (Fy) OF 60,000 PSI.
- 4. CONSTRUCTION JOINTS SHALL BE PROVIDED WHERE SHOWN.
- UNLESS OTHERWISE NOTED, PROVIDE 3/4" CHAMFER AT ALL EXPOSED JOINTS, EDGES, EXTERNAL CORNERS, AND VERTICAL EXPANSION JOINTS.
- 6. ALL REINFORCEMENT SHALL HAVE A MINIMUM COVER OF 3" UNLESS OTHERWISE NOTED.
- 7. ALL BENDS OF REINFORCEMENT AND ALL BAR SPACERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH AC1 SP-66 (AMERICAN CONCRETE INSTITUTE DETAILING MANUAL - LATEST EDITION)
- 8. REINFORCING BAR DESIGNATION NUMBERS CONFORM TO THE NUMBERING SYSTEM OF THE CONCRETE REINFORCING STEEL INSTITUTE
- 9. REINFORCING BARS SHALL BE CONTINUOUS AT ALL CORNERS UNLESS OTHERWISE NOTED.
- 10. THE EMBEDMENT AND SPLICE TABLE, SHALL BE USED IN DETERMINING LAP SPLICES AND EMBEDMENT LENGTHS WHERE LENGTHS ARE NOT OTHERWISE INDICATED. SPLICE LENGTHS SHALL BE BASED ON THE SMALLER BAR BEING LAPPED. THE CONTRACTOR WILL BE ALLOWED TO MAKE SPLICES IN ADDITION TO THOSE INDICATED IN THE DRAWINGS, WHERE ESSENTIAL TO CONSTRUCTABILITY, SUBJECT TO APPROVAL BY THE ENGINEER. SPLICES OTHER THAN THOSE SHOWN ON THE DRA AND OTHER THAN ANY ADDITIONAL SPLICES REQUIRED BY THE ENGINEER WILL BE AT THE CONTRACTOR'S EXPENSE
- 11. MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS" ACI-301-05.
- REINFORCING DETAILS SHALL CONFORM WITH "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" ACI-315-99.
- 13. PROVIDE ALL BARS, CHAIRS, ACCESSORIES, ETC. REQUIRED TO MAINTAIN ALL REINFORCING PROPER LOCATION AND ORIENTATION.
- 14. WHERE CONTINUOUS REINFORCING IS DESIGNATED (UNLESS NOTED OTHERWISE), LAP BARS WITH FULL TENSION LAP SPLICES, AT NON-CONTINUOUS ENDS OF ALL BEAMS AND SLAB, PROVIDE ACI 90 DEGREE HOOK TOP BARS, EXCEPT AT CORNERS, ONIT HOOKS ON EXTERIOR BARS AND PROVIDE CORNER "L" BARS (EXTERIOR HORIZONTAL TOP, BOTTOM, AND ALL INTERMEDIATE BARS) LAPPING 24 BAR DIAMETERS IN EACH DIRECTION.

S: STRUCTURAL DESIGN IS IN ACCORDANCE WITH "2006 INTER-NATIONAL 318-08/318R-08 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL "MANUAL OF STEEL CONSTRUCTION", THIRTEENTH EDITION ALLOWABLE STRESS UCTURAL STEEL MEMBERS AND CONNECTIONS ARE DESIGNED BY ESIGN METHOD. STRUCTURAL CONCRETE MEMBERS ARE DESIGNED BY THOD. 140 MPH.	 	08/16/13	ISSUED FOR CONSTRUCTION	мср	Shaw Environmental & Infrastructure, Inc. (A CB&I COMPANY)	RESTORATIO 450 LA	COTECTION AND ON AUTHORITY JUREL STREET GE, LOUISIANA 70801
	REV.	DATE	DESCRIPTION	BY		DRAWN BY: TOT	DESIGNED BY: MCD

REPAIRS:

1. DEFECTIVE WELD SHALL BE REMOVED BY AIR CARBONATE OR OXYGEN GOUGING TO SOUND METAL. THE SURFACES SHALL BE REWELDED IN COMPLIANCE WITH ARTICLE 6.6 OF AWS D1.1. WELDS THAT HAVE BEEN REPARED SHALL BE RE-TESTED BY THE SAME METHOD USED IN THE ORIGINAL INSPECTION. ALL COST OF REPARES AND RE-TESTING SHALL BE BORNE BY THE CONTRACTOR, EXCEPT FOR REPARE OF MEMBERS CUT TO REMOVE TEST COUPONS WHICH WERE FOUND ADDITION TO CONTRACT OF DESTINGTION. FOUND TO CONTAIN ACCEPTABLE WELDS.

MATERIAL STORAGE:

STEEL PIPES, PILES, PLATES OR ANY STEEL MATERIAL (FABRICATED OR NON-FABRICATED) IS TO BE STORED AND HANDLED IN SUCH A MANNER THAT SAGGING OR BENDING IS AVDIDED. ALL STEEL MATERIALS TO BE STORED ON THE GROUND SHALL BE STACKED AND BLOCKED IN SUCH A WAY THAT ALL STEEL MATERIAL HAVE A UNIFORM SUPPORT ALONG ITS ENTIRE LENGTH.

WORKMANSHIP:

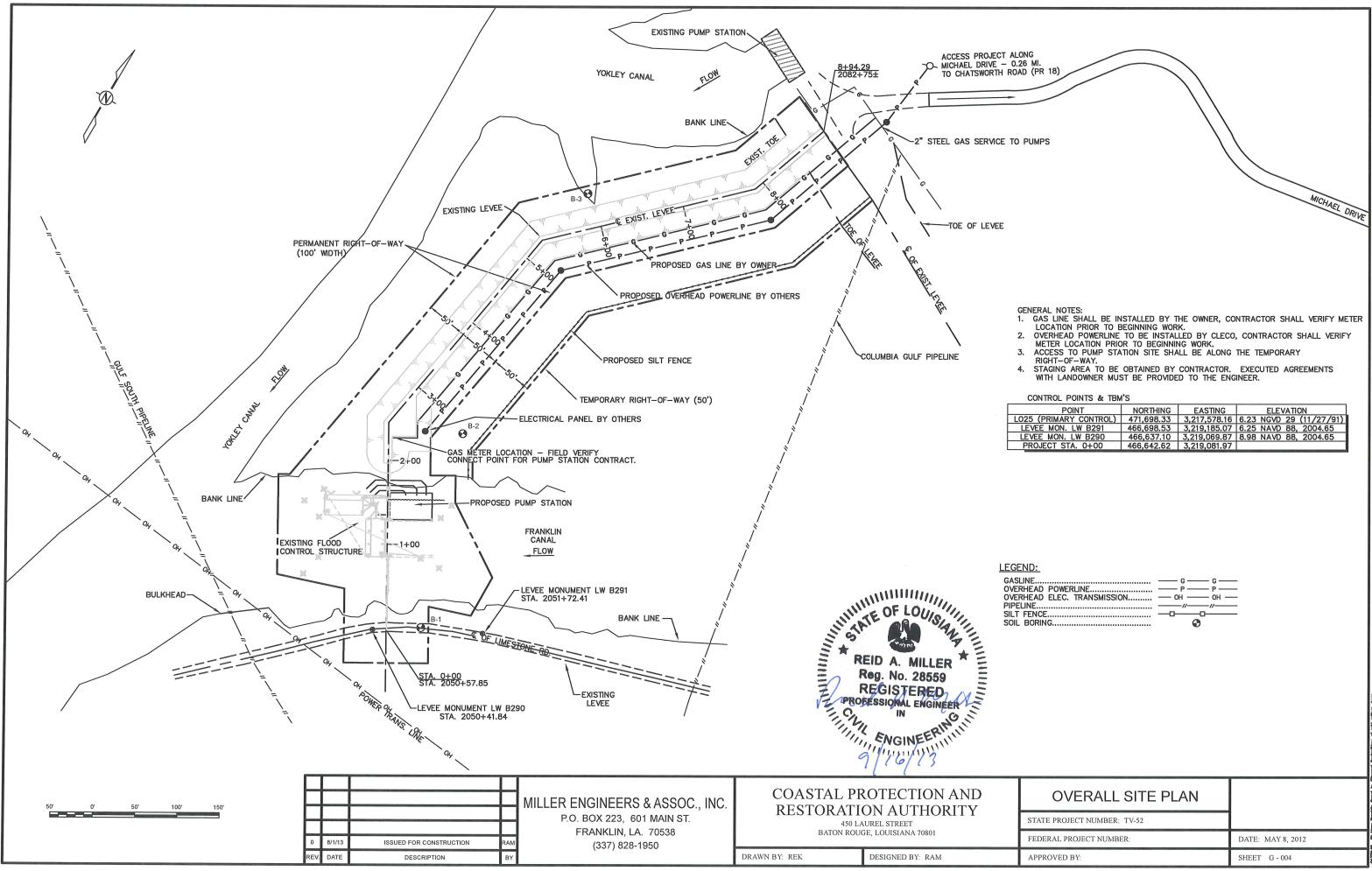
1 THE CONTRACTOR SHALL LITUIZE WEIDING PROCEDURES COMPATIBLE WITH THE TYPE OF MATERIAL THE CONTRACTOR SHALL DILLE WELDING PROCEDURES CONTAILBLE WITH THE TYPE OF MATERIAL BEING WORKED ON, AND SHALL EXERCISE CAUTION TO MINIMIZE RESIDUAL STRESSES AND DISTORTIONS CAUSED BY EXCESSIVE HEAT. APPROVAL OF THE CONTRACTOR'S WELDING PROCEDURES WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PRODUCING A FINISHED STUCTURE MEETING ALL REQUIREMENTS OF THESE SPECIFICATIONS.

ABBREVIATIONS:

AWS	-AMERICAN WELDING SOCIETY
EL	-ELEVATION
FLG PL	-FLANGE PLATE
FS	-FAR SIDE
MFG	-MANUFACTURE
NS	-NEAR SIDE
PL	-PLATE
SCH	-SCHEDULE
STD	-STANDARD
HDG	-HOT DIPPED GALVANIZED
TOS	-TOP OF STEEL
CSK	-COUNTERSUNK
FRP	-FIBERGLASS REINFORCED PLASTIC

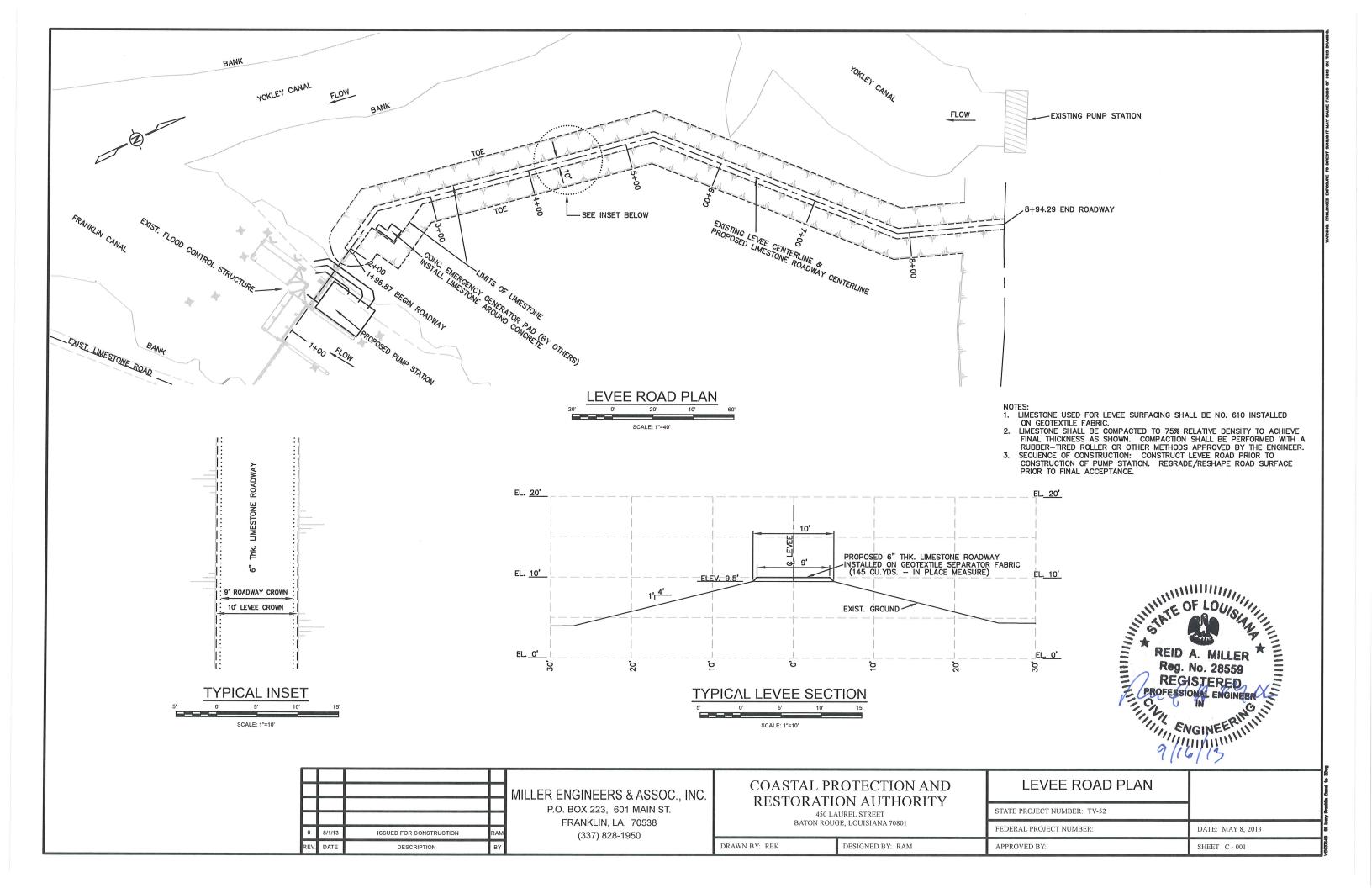
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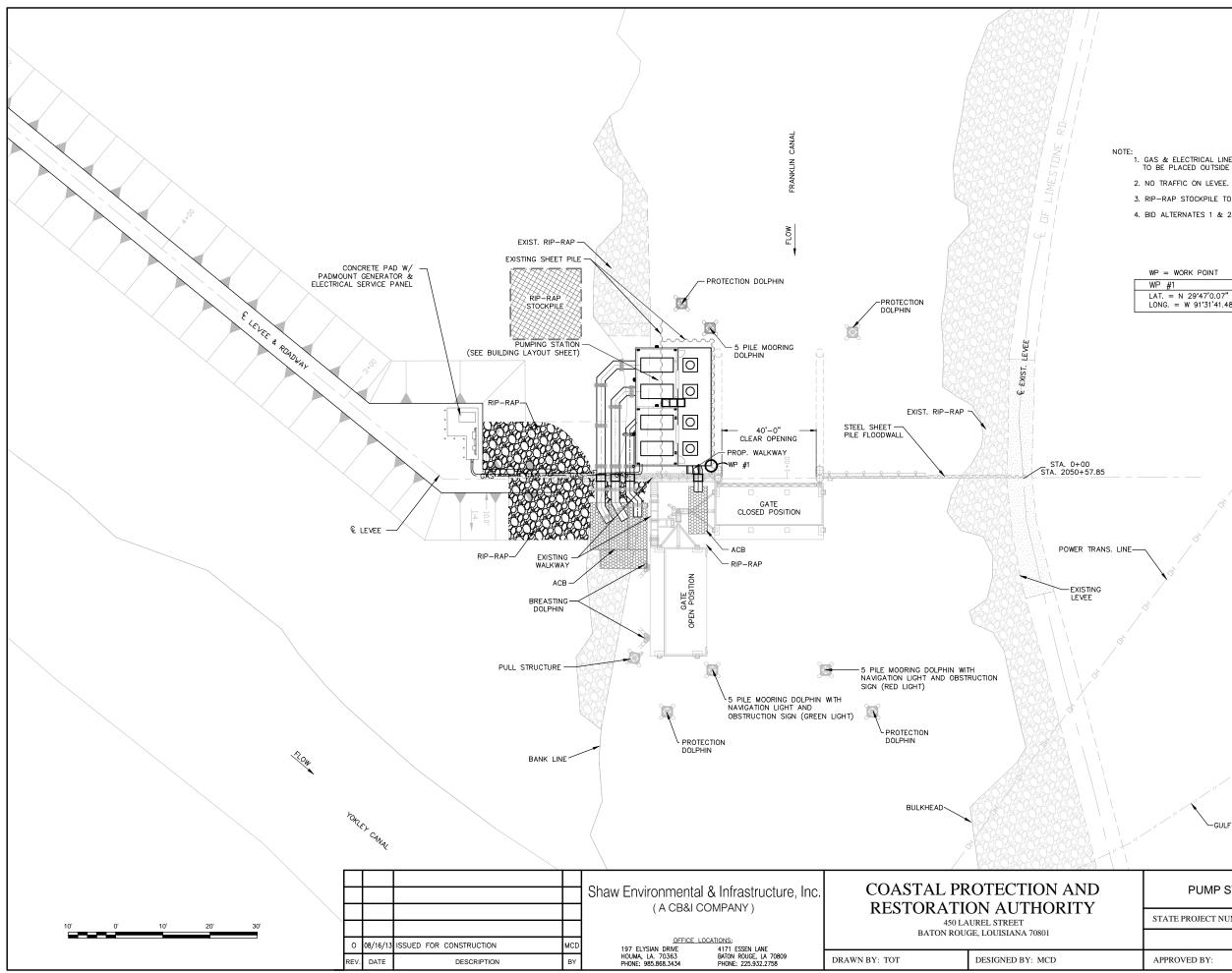
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DATE: AUGUST 2013	CLIENT\st
SHEET G-003	P:\ENG\0



POINT	NORTHING	EASTING	ELEVATION
25 (PRIMARY CONTROL)	471,698.33	3,217,578.16	6.23 NGVD 29 (11/27/91)
LEVEE MON. LW B291	466,698.53	3,219,185.07	6.25 NAVD 88, 2004.65
LEVEE MON. LW B290	466,637.10	3,219,069.87	8.98 NAVD 88, 2004.65
PROJECT STA. 0+00	466,642.62	3,219,081.97	

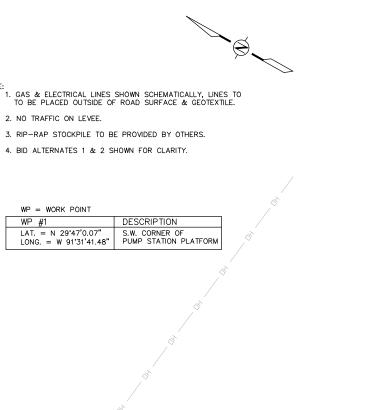
OVERALL SITE PLAN		Min Cand to JUnga
STATE PROJECT NUMBER: TV-52		
FEDERAL PROJECT NUMBER:	DATE: MAY 8, 2012	2
APPROVED BY:	SHEET G-004	DISTIN











LEGEND:

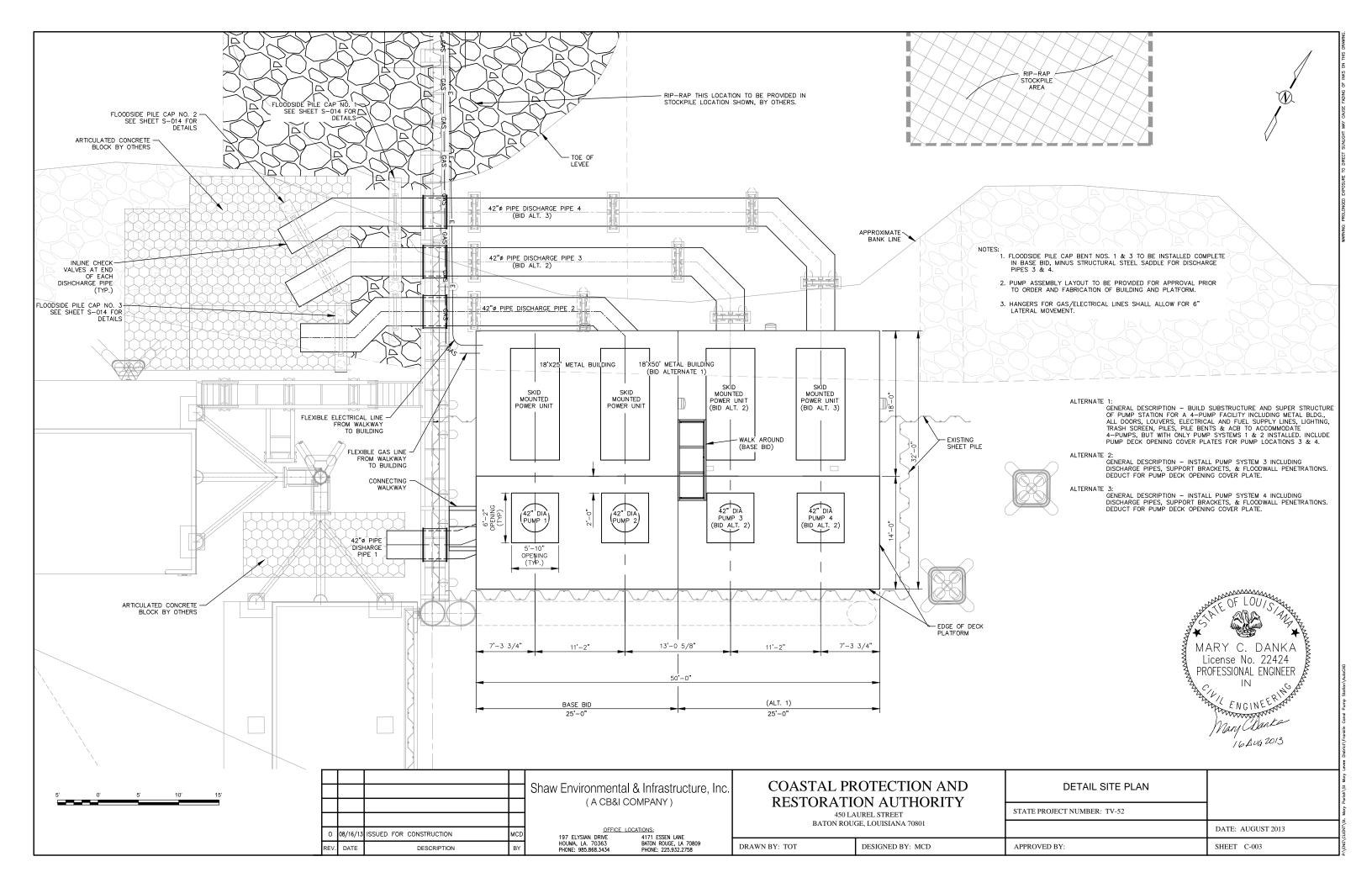
-GULF SOUTH PIPELINE

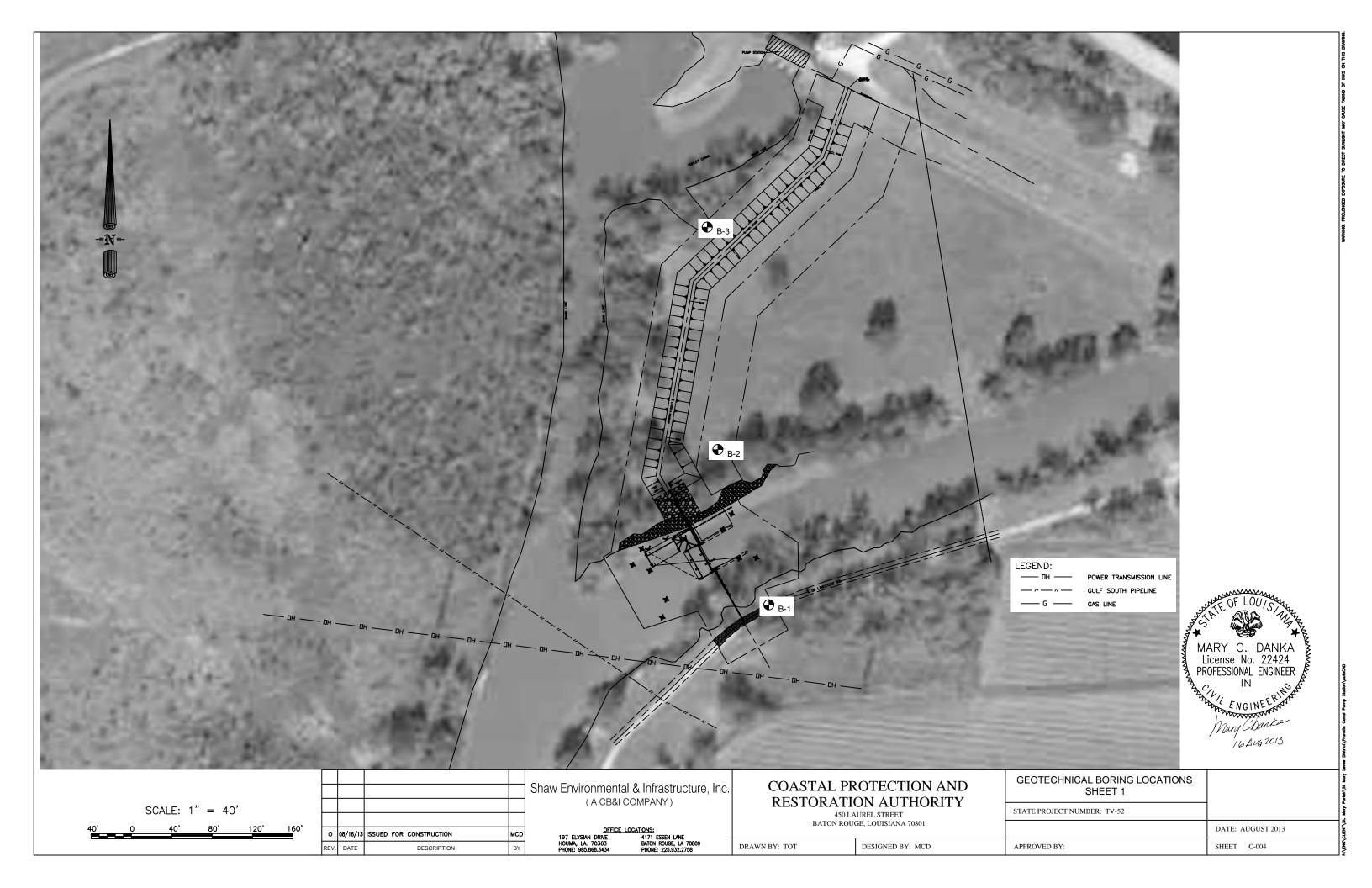
WP = WORK POINT

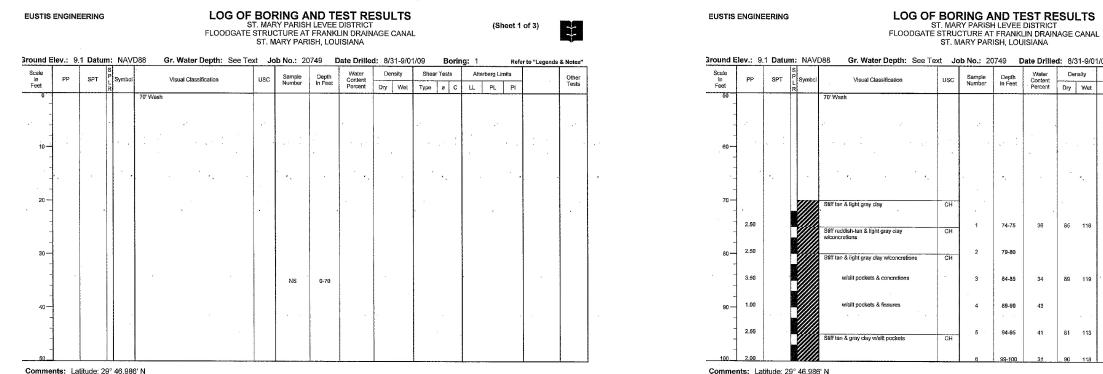
POWER TRANSMISSION LINE GULF SOUTH PIPELINE

OF LOU MARY C. DANKA License No. 22424 PROFESSIONAL ENGINEER IN ENGINEER Many Chanks 16 AUG 2013

PUMP STATION SITE PLAN	
STATE PROJECT NUMBER: TV-52	
	DATE: AUGUST 2013
APPROVED BY:	SHEET C-002







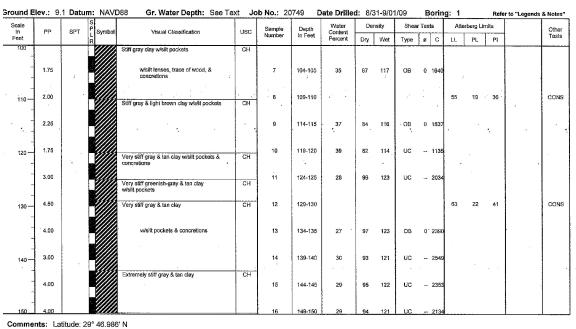
Comments: Latitude: 29° 46.986' N Longitude: 91° 31.673' W

EUSTIS ENGINEERING

LOG OF BORING AND TEST RESULTS ST. MARY PARISH LEVEE DISTRICT FLOODGATE STRUCTURE AT FRANKLIN DRAINAGE CANAL ST. MARY PARISH, LOUISIANA

(Sheet 3 of 3) ŧ

Longitude: 91° 31.673' W



Longitude: 91° 31.673' W

				Shaw Environmental & Infrastructure, Inc. (A CB&I COMPANY)	RESTORATI 450 LA	ROTECTION AND ON AUTHORITY AUREL STREET GE, LOUISIANA 70801
0	08/16/13	ISSUED FOR CONSTRUCTION	MCD	197 ELYSIAN DRIVE 4171 ESSEN LANE		
REV.	DATE	DESCRIPTION	BY	HOUMA, LA. 70363 BATON ROUGE, LA 70809 PHONE: 985.868.3434 PHONE: 225.932.2758	DRAWN BY: TOT	DESIGNED BY: MCD

(Sheet 2 of 3)

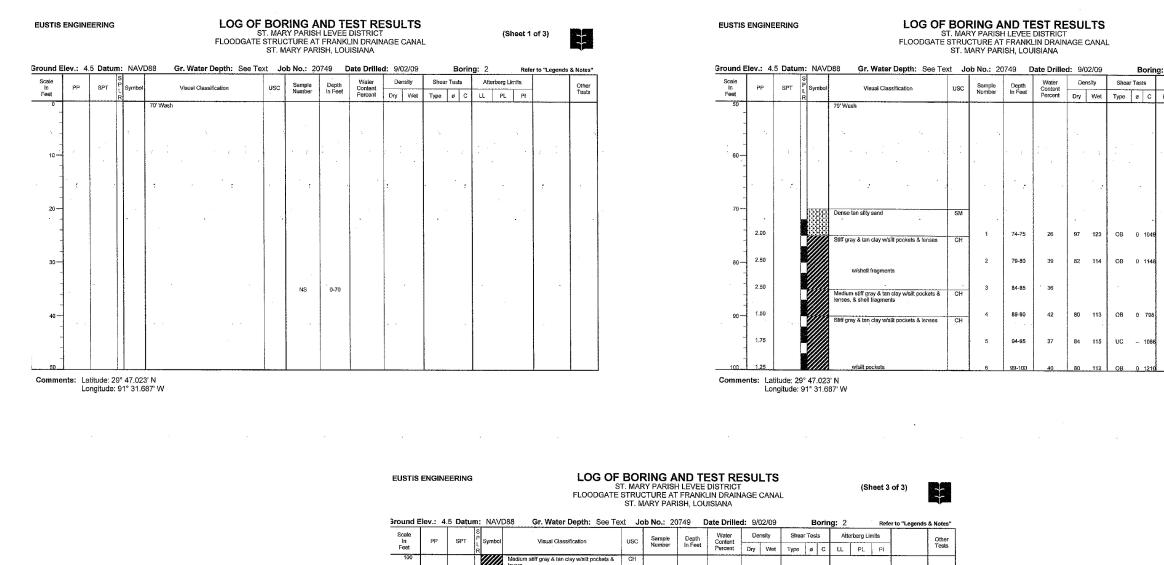


31-9/01/09	Boring: 1	Refer to "Legends & Notes"
		· · · · · · · · · · · · · · · · · · ·

-		51-5/0			UIII.	9. 1		Reie	riu Legenus	or motes	
	Der	nsity	Shea	r Tes	ts	Atte	erberg Lh	nits		Other Tests	
	Dry	Wet	Туре	ø	С	ш	PL	PI		Tests	
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		י .						·			
	85	116	OB	0	1142	t			•		
	89	119	' OB	0	1788	65	19	46		CONS	
	81	113	OB	0	1074		•				
	90	118	UC		1208						



GEOTECHNICAL BORING LOGS SHEET 2		ontish\st marv
STATE PROJECT NUMBER: TV-52		Nom
	DATE: AUGUST 2013	CI IENT\st
APPROVED BY:	SHEET C-005	P-\ENG\0



in PP SPT SPT		COT	P	Symbol	Visual Classification	USC	Sample	Depth	Water	Dei	nsity	Shea	n Tes	ts	Atte	erberg L	imits		Other
eet	PP	30	R	Бутьсі	Visual Glassification	USC	Number	In Feet	Content Percent	Dry	Wet	Туре	ø	С	LL	PL	PI		Tests
100			U		Medium stiff gray & tan clay w/silt pockets & lavers	CH					L		-			I			
_	1.75		10.0		ingero -		7	104-105	39	81	112	uc		513					
~	1.15		D		Stiff gray & brown clay w/slity sand pockets & lenses, & shell fragments	CH	1 '	104-105		01	112			515		÷.,			×.
- 1	1.50						8	109-110	32	1			÷.,	-				1.1	
110	indo	-			Stiff gray clay w/silt pockets .	СН			32	· .	.								
	2.00				· · · · · · · · · · · · · · · · · · ·		- 9	114-115	24	103	127	UC ·	_	1862					
ť	·				Very stiff gray clay w/sitty sand pockets & lenses	СН					÷	00	.*	1002	· ·			· · ·	
120	2.25						10	119-120	21	108	131	OB	0	2266					
-					Very sliff greenish-gray clay w/concretions	CH										۰,			
-	3.75						11	124-125	32	91	119	ОВ	0	2051					
-					Very stiff light gray & tan clay w/concretions & trace of decayed wood	CH													
130-	3,75				(fissured)		12	129-130	32	90	119	UC		2211					
-					Very stiff light gray, tan, & brown clay w/silt lenses, trace of decayed wood, & concretions	CH													
-	3.50				Extremely stiff gray & tan clay	СН	13	134-135	32					•				×	
]					CARCINELY Still gray of tall day														
140 —	3.00						14	139-140	35	86	117	uc		1476					
-					е <u>к</u> е		1.1						÷					1	
]	3.00						15	144-145	26	98	124	ОВ	0	398 4					
1							1												
150	4.60			THI.		1	16	149-150	27	1								1	

Comments: Latitude: 29° 47.023' N Longitude: 91° 31.687' W

				Shaw Environmental & Infrastructure, Inc. (A CB&I COMPANY) OFFICE LOCATIONS: 197 ELYSIAN DRIVE HOUMA, LA. 70363 BATON ROUGE, LA 70609 PHONE: 955.688.3334 PHONE: 255.9322.758	RESTORATIO 450 LA	ROTECTION AND ON AUTHORITY AUREL STREET GE, LOUISIANA 70801
0	08/16/13	ISSUED FOR CONSTRUCTION	MCD			
REV.	DATE	DESCRIPTION	BҮ		DRAWN BY: TOT	DESIGNED BY: MCD

(Sheet 2 of 3)



Boring: 2 Refer to "Legends & Notes"

Water Content	Der	nsity	Shear	Tes	ts	Atterberg Limits				Other	
Percent	Dry	Wet	Туре	ø	С	£L.	PL	PI		Tests	
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(e)						•	.*			*	
26	97	123	ОВ	0	1049						
39	82	114	ОВ	0	1148						
' 36											
42	80	113	OB	0	798				ľ		
37	84	115	UC	-	1068						
40	80	112	ОВ	0	1210						

NAMMAN OF LOUT ARA MARY C. DANKA License No. 22424 PROFESSIONAL ENGINEER IN .0 ENGINEERING Many Charks 16 AUG 2013

GEOTECHNICAL BORING LOGS SHEET 3		.
STATE PROJECT NUMBER: TV-52		
	DATE: AUGUST 2013	1
APPROVED BY:	SHEET C-006	

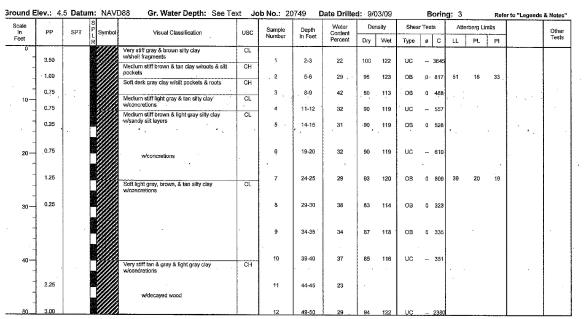
EUSTIS ENGINEERING

LOG OF BORING AND TEST RESULTS ST. MARY PARISH LEVEE DISTRICT FLOODGATE STRUCTURE AT FRANKLIN DRAINAGE CANAL ST. MARY PARISH, LOUISIANA

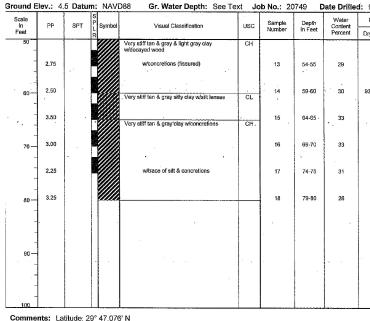
++ (Sheet 1 of 2)

EUSTIS ENGINEERING

LOG OF BORING AND TEST RESULTS ST. MARY PARISH LEVEE DISTRICT FLOODGATE STRUCTURE AT FRANKLIN DRAINAGE CANAL ST. MARY PARISH, LOUISIANA



Comments: Latitude: 29° 47.076' N Longitude: 91° 31.690' W



Longitude: 91° 31.690' W

COASTAL PROTECTION AND Shaw Environmental & Infrastructure, Inc. **RESTORATION AUTHORITY** (A CB&I COMPANY) 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801 OFFICE LOCATIONS: 0 08/16/13 ISSUED FOR CONSTRUCTION MCD 197 ELYSIAN DRIVE HOUMA, LA. 70363 PHONE: 985.868.3434 4171 ESSEN LANE BATON ROUGE, LA 70809 PHONE: 225.932.2758 REV. DATE DRAWN BY: TOT DESIGNED BY: MCD ΒY DESCRIPTION

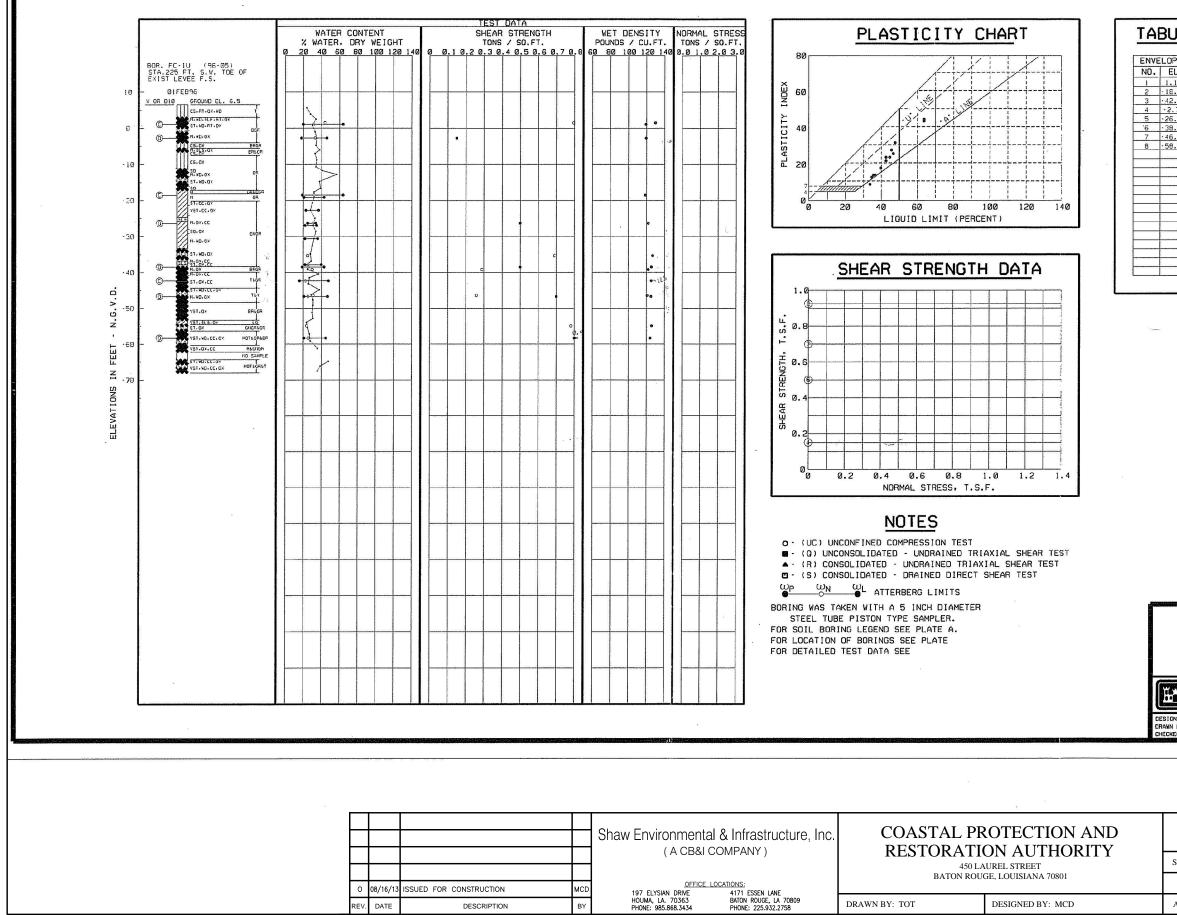
(Sheet 2 of 2)



03/09	5	В	orin	g: 3		Refe	er to "Legends & Notes"					
nsity	Shear	Tes	ts	Atte	erberg Lir	nits		Other				
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GEOTECHNICAL BORING LOGS SHEET 4		
STATE PROJECT NUMBER: TV-52		
	DATE: AUGUST 2013	1
APPROVED BY:	SHEET C-007	



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ULAR TEST DATA		
DPE TYPE STRENGTH CLASS 1.10 C 0.0 0.000 CH 2.50 C 0.0 0.000 CH 2.30 C 0.0 0.000 CH 2.30 C 0.0 0.000 CH 5.30 0 0.0 0.150 CL 5.30 0 0.0 0.5000 HL 8.50 0 0.0 0.700 CL 6.70 0 0.0 0.700 CL 8.30 0 0.0 0.925 CL		
n og en sen e		TE OF LOU/S/44
U.S. ARRY COGINECT DISTRICT. CORPS OF ENGINEERS NEW ORLEAMS. LOUISIA DRED BY. PLOT SCALE PLOT DATE: CAOO FI	NEW ORLE IS	MARY C. DANKA License No. 22424 PROFESSIONAL ENGINEER
N BY: KED BY: DATE:		ENGINEER CA
FC-10	PLATE	Mary Clanks 16 AUG 2013
GEOTECHNICAL BORING SHEET 5	LOGS	
STATE PROJECT NUMBER: TV-52		DATE, AUGUOT 2012
APPROVED BY:		DATE: AUGUST 2013
APPROVED BY:		SHEET C-008

G\CLIENT\st. mary parish\st mary levee district\franklin canal pump station\AutoC

TEST DA WATER CONTENT % WATER, DRY WEIGHT PLASTICITY CHART SHEAR STRENGTH TONS / SO.FT. WET DENSITY NORMAL STRESS POUNDS / CU.FT. TONS / SO.FT. 20 40 60 80 100 120 14 0 0.10.20.30.40.50.60.70.8 60 80 100 120 140 0.0 1.0 2.0 3.0 80 INDEX 00 16 1 BOR. FC-2U (96-05) STA. SEE MAP 225 FT. W. C/L FRANKLIN CANAL WATER TABLE 6.2 FT. 28FEB96 PLASTICITY N & 28FEB95 <u>V 0F DIO</u> DGR - 10 17th · 20 @---ST. DX 20 40 60 80 100 120 140 LIQUID LIMIT (PERCENT)] } 1. VD. OX - 30 • 11.04 6 SHEAR STRENGTH DATA - 46 VET-OX-CC VET. 0X. CC VET. 0X. CC VET. 0D. CC.0 VET. ND.CC.0 CRI व्यक्षे N.G.V.D. 1.0 ¥0.23.0 GHORSY NO SAMPLE CHOR т. s. F. 1.0 1 æ РЕП 19-19-₩ø. RENG IN ELEVATIONS ST Ø. **IEAR** Ø. 0 L 0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 NORMAL STRESS, T.S.F. NOTES o - (UC) UNCONFINED COMPRESSION TEST . (D) UNCONSOLIDATED - UNDRAINED TRIAXIAL SHEAR TEST - (R) CONSOLIDATED - UNDRAINED TRIAXIAL SHEAR TEST C - (S) CONSOLIDATED - DRAINED DIRECT SHEAR TEST ₩<u>P</u> ₩N ₩L ATTERBERG LIMITS BORING WAS TAKEN WITH A 5 INCH DIAMETER STEEL TUBE PISTON TYPE SAMPLER. FOR SOIL BORING LEGEND SEE PLATE A. FOR LOCATION OF BORINGS SEE PLATE FOR DETAILED TEST DATA SEE COASTAL PROTECTION AND Shaw Environmental & Infrastructure, Inc. **RESTORATION AUTHORITY** (A CB&I COMPANY) 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801 OFFICE LOCATIONS: 0 08/16/13 ISSUED FOR CONSTRUCTION MCD

197 ELYSIAN DRIVE HOUMA, LA. 70363 PHONE: 985.868.3434

ΒY

DESCRIPTION

REV. DATE

4171 ESSEN LANE BATON ROUGE, LA 70809 PHONE: 225.932.2758

DRAWN BY: TOT

DESIGNED BY: MCD

TABULAR	TEST DATA		
ENVELOPE TYPE	STRENGTH CLASS		
NO. EL.	Φ C · TSF CLH33		
2 -21.00 D 3 -34.20 D	0.0 0.750 CL 0.0 0.750 CL		
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		JAN M	THE
			₩ 1
		∮ MARY C	. DANKA 👔
		₹ License	No. 22424
		MT OLLA & PROFESSION	IAL ENGINEER 🖉
H*H	CORPS OF ENGINEERS	A ACIL.	N NOA
DESIGNED BY.	PLOT SCALE PLOT DATE CADD	EI ZUNTEN	GINEEKIN
DRAWN BY: CHECKED BY:	DATE:	, Juntary	C. DANKA No. 22424 NaL ENGINEER GINEER GINEER M GINEER M M M M M M M M M M M
		LATE	A 2012
		MARY C License D PROFESSION A LATE	Danke A 14 2013

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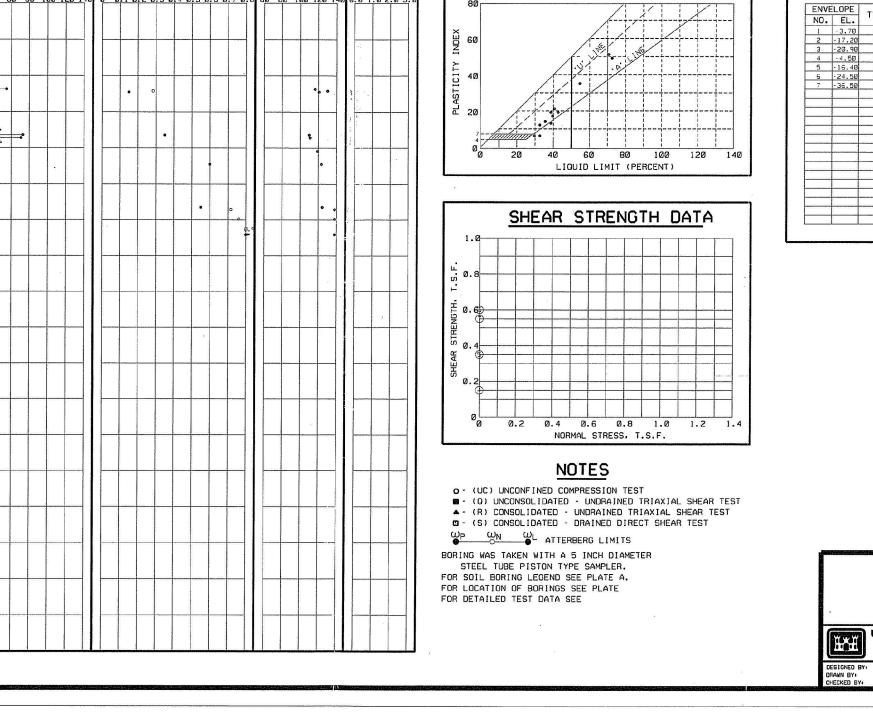
GEOTECHNICAL BORING LOGS SHEET 6	
STATE PROJECT NUMBER: TV-52	
	DATE: AUGUST 2013
APPROVED BY:	SHEET C-009

TEST DATA SHEAR STRENGTH TONS / SO.FT. PLASTICITY CHART WATER CONTENT WET DENSITY POUNDS / CU.FT. NORMAL STRESS TONS / SQ.FT. % WATER, DRY WEIGHT <u>0 20 40 60 80 100 120 140 0 0,1 0,2 0,3 0,4 0,5 0,6 0,7 0,</u>E 60 80 100 120 140 0.0 1.0 2.0 3.0 80 BOR. FC-3U (96-05) TA.225 FT. S.W. F.S. TOE OF EXIST LEVEE Z INDEX 60 10 · Yill I we 30 JAN96
 # OR DID
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 # OR DID
 ORCUMD EL. 4.7

 # THE STORT SCIDENT S ASTICITY ASTICITY C • -. . 10 SAUPLI 1 20 -10 C5+0× GP. V50. VD. BT C · 20 ©— ØČ 60 80 20 40 @---4 VO. 07. T2V - 30 GNCP C5.0X. ND ->-T. VD. OX 0fo ST.OY.CC - 40 BRORL T.0Y 51+0×+CC N.G.V.D. 1.0 GRIBR 11.0X.CC 51.0X.CC V51.WD.07 (5.0x 100 \mathbf{n}_{C} 03- EE EE N

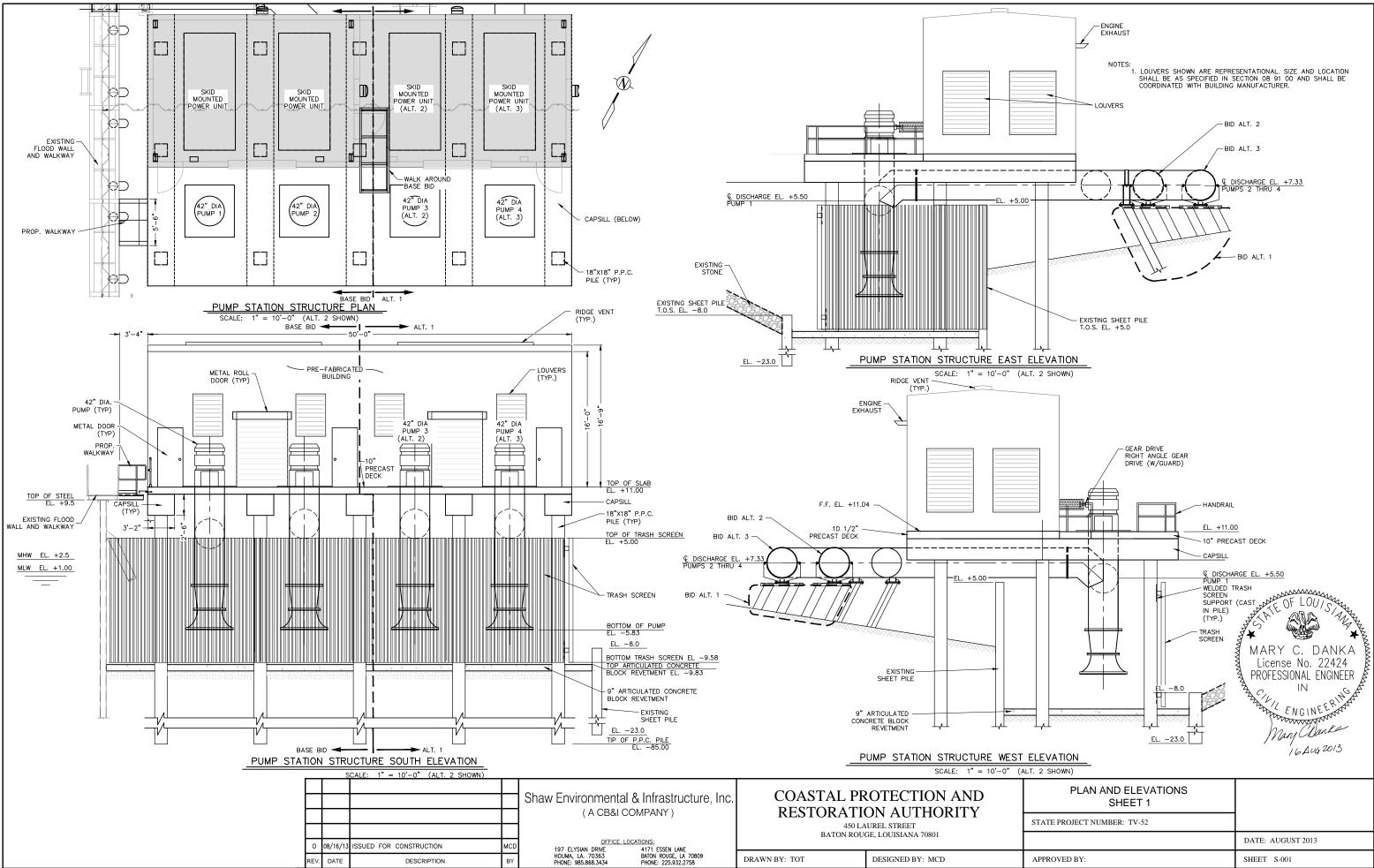
ELEVATIONS



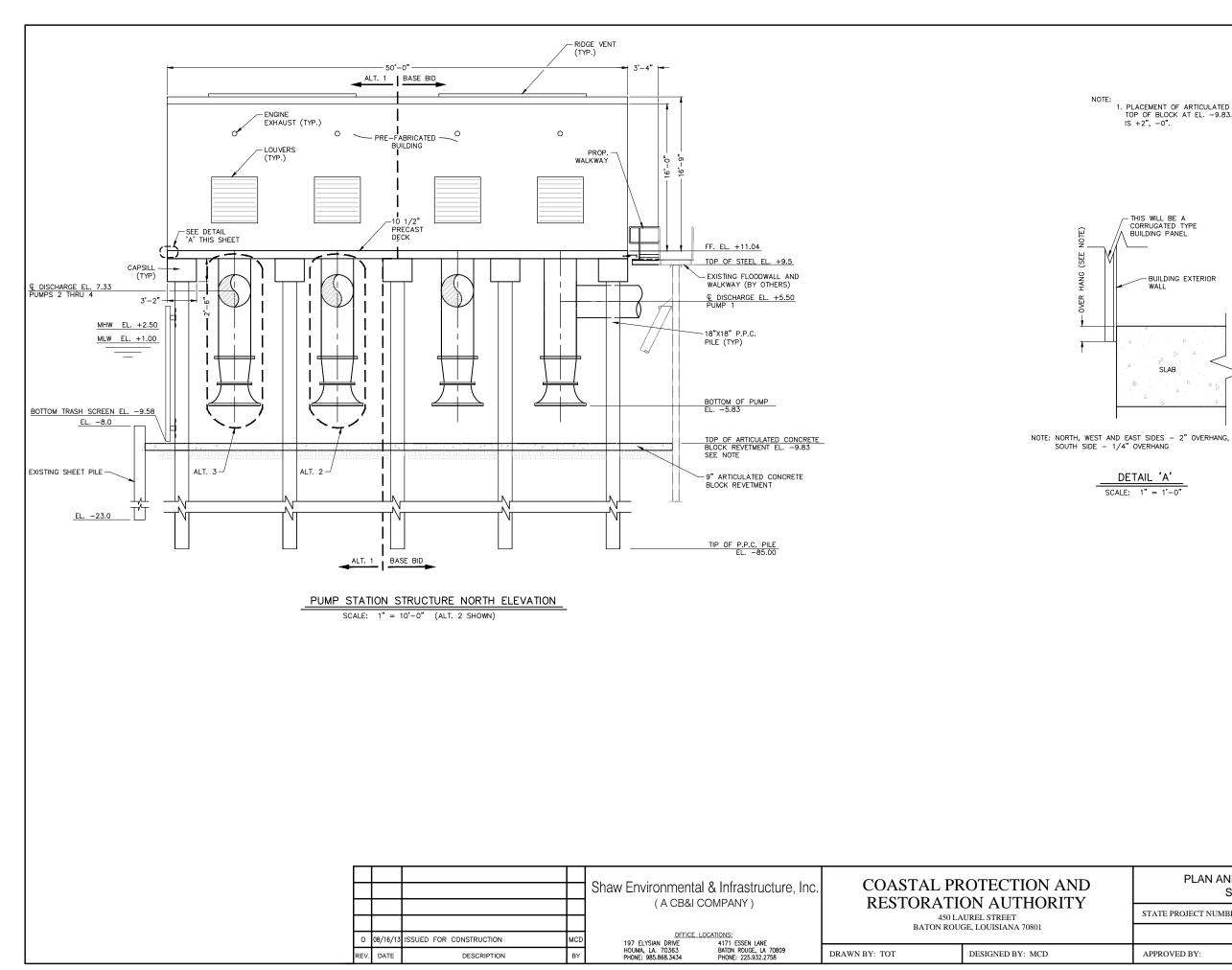
	0	08/16/13	ISSUED FOR CONSTRUCTION	MCD	Shaw Environmental & Infrastructure, Inc. (A CB&I COMPANY)	RESTORATIO 450 LA	ROTECTION AND ON AUTHORITY JUREL STREET GE, LOUISIANA 70801
F	REV.	DATE	DESCRIPTION	BY	HOUMA, LA. 70363 BATON ROUGE, LA 70809 PHONE: 985.868.3434 PHONE: 225.932.2758	DRAWN BY: TOT	DESIGNED BY: MCD

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ELOPE TYPE STRENGTH CLASS 3.70 C 0.0 0.000 CH -17.20 C 0.0 0.000 CH -20.90 C 0.0 0.000 CH -20.90 C 0.0 0.000 CL -4.50 0 0.0 0.150 CL -15.40 0 0.0 0.350 CH -24.50 0 0.0 0.500 CL -35.50 0 0.0 0.550 CL		
·3.70 C 0.0 0.000 CH -17.20 C 0.0 0.000 CH -20.90 C 0.0 0.000 CL -4.50 0 0.0 0.150 CL -15.40 0 0.0 0.350 CH -24.50 0 0.0 0.600 CL		
-20.90 C 0.0 0.000 CL -4.50 0 0.0 0.150 CL -15.40 0 0.0 0.350 CH -24.50 0 0.0 0.600 CL		
-16.40 0 0.0 0.350 CH -24.50 0 0.0 0.600 CL		
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	∛ MARY (C. DANI
	License	No. 2242
mann) U.S. Man Caciacta Dismici.	PROFESSIO	NAL ENGIN
CORPS OF ENGINEERS	ACIL.	
ESIGNED BY: PLOT SCALE PLOT DATE: CAOO FILE:	EN EN	VGINEER
AVN BY: ECKED BY: DATE:		Manke
The show on the second seco	ATE //lan	Danke 6 A UG 2013
	/	6AUG WIS
GEOTECHNICAL BORING L	DGS	
SHEET 7		
STATE PROJECT NUMBER: TV-52		
	DATE: AUGUS	ST 2013
APPROVED BY:	SHEET C-01	



NING: PROLONGED EXPOSURE TO DIRECT SUNLIGHT MAY CAUSE FADING OF INKS ON



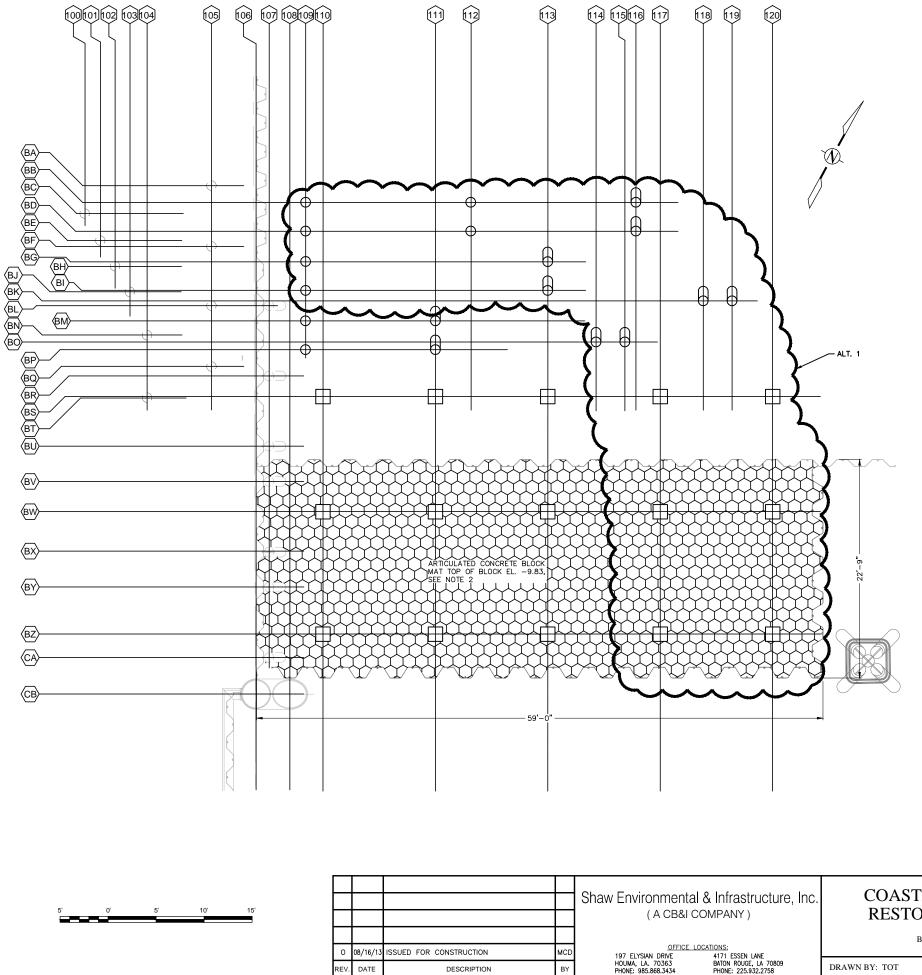
1. PLACEMENT OF ARTICULATED CONCRETE BLOCK SHALL HAVE TOP OF BLOCK AT EL. -9.83. TOLERANCE FOR PLACEMENT IS +2", -0".

- BUILDING EXTERIOR WALL SLAB

DETAIL 'A' SCALE: 1'' = 1' - 0''



PLAN AND ELEVATIONS SHEET 2		
STATE PROJECT NUMBER: TV-52		
	DATE: AUGUST 2013	ŀ
APPROVED BY:	SHEET S-002	<u>ן</u>



			PROPOSED PIL	E SCHEDULE					
GRID LINE	NORTHING	EASTING	PILE TYPE	WALL THK.	PILE TIP EL.	PILE CUT-OFF EL.	PILE LENGTH (FT.)	INSTALL	BID
BB109	466802.151	3218997.480	12"ø STEEL PILE	0.375"	-30.00	+4.88	35.00	VERTICAL	ALT. 1
BB112	466810.606	3219012.457	12"ø STEEL PILE	0.375"	-30.00	+4.88	35.00	VERTICAL	ALT. 1
BB116	466819.060	3219027.435	12"ø STEEL PILE	0.375"	-30.00	+4.88	37.00	BATTERED	ALT. 1
BD109	466799.539	3218998.955	12"ø STEEL PILE	0.375"	-30.00	+4.88	35.00	VERTICAL	ALT. 1
BD112	466807.933	3219013.932	12"ø STEEL PILE	0.375"	-30.00	+4.88	35.00	VERTICAL	ALT. 1
BD116	466816.447	3219028.909	12"ø STEEL PILE	0.375"	-30.00	+4.88	37.00	BATTERED	ALT. 1
BG109	466796.781	3219000.512	12"ø STEEL PILE	0.375"	-30.00	+4.88	35.00	VERTICAL	ALT. 1
BG113	466809.176	3219022.471	12"ø STEEL PILE	0.375"	-30.00	+4.88	37.00	BATTERED	ALT. 1
BI109	466794.169	3219001.987	12"ø STEEL PILE	0.375"	-30.00	+4.88	35.00	VERTICAL	ALT. 1
BI113	466806.564	3219023.946	12"ø STEEL PILE	0.375"	-30.00	+4.88	37.00	BATTERED	ALT. 1
BK118	466813.580	3219038.580	12"ø STEEL PILE	0.375"	-30.00	+4.88	37.00	BATTERED	ALT. 1
BK119	466815.055	3219041.192	12"ø STEEL PILE	0.375"	-30.00	+4.88	37.00	BATTERED	ALT. 1
BM109	466791.404	3219003.533	12"ø STEEL PILE	0.375"	-30.00	+4.88	35.00	VERTICAL	BASE BID
BM111	466798.050	3219015.307	12"ø STEEL PILE	0.375"	-30.00	+4.88	37.00	BATTERED	BASE BID
B0114	466804.353	3219030.965	12"ø STEEL PILE	0.375"	-30.00	+4.88	37.00	BATTERED	ALT. 1
B0115	466805.828	3219033.578	12"ø STEEL PILE	0.375"	-30.00	+4.88	37.00	BATTERED	ALT. 1
BP109	466788.792	3219005.008	12"ø STEEL PILE	0.375"	-30.00	+4.88	35.00	VERTICAL	BASE BID
BP111	466795.437	3219016.782	12"ø STEEL PILE	0.375"	-30.00	+4.88	37.00	BATTERED	BASE BID
BS110	466785.432	3219008.984	18"X18" PPC PILE	N/A	-85.00	+8.42	93.42	VERTICAL	BASE BID
BS111	466791.187	3219019.180	18"X18" PPC PILE	N/A	-85.00	+8.42	93.42	VERTICAL	BASE BID
BS113	466796.943	3219029.377	18"X18" PPC PILE	N/A	-85.00	+8.42	93.42	VERTICAL	BASE BID
BS117	466802.698	3219039.573	18"X18" PPC PILE	N/A	-85.00	+8.42	93.42	VERTICAL	ALT. 1
BS120	466808.453	3219049.769	18"X18" PPC PILE	N/A	-85.00	+8.42	93.42	VERTICAL	ALT. 1
BW110	466774.982	3219014.883	18"X18" PPC PILE	N/A	-85.00	+8.42	93.42	VERTICAL	BASE BID
BW111	466780.737	3219025.079	18"X18" PPC PILE	N/A	-85.00	+8.42	93.42	VERTICAL	BASE BID
BW113	466786.493	3219035.275	18"X18" PPC PILE	N/A	-85.00	+8.42	93.42	VERTICAL	BASE BID
BW117	466792.248	3219045.471	18"X18" PPC PILE	N/A	-85.00	+8.42	93.42	VERTICAL	ALT. 1
BW120	466798.003	3219055.668	18"X18" PPC PILE	N/A	-85.00	+8.42	93.42	VERTICAL	ALT. 1
BZ110	466763.879	3219021.151	18"X18" PPC PILE	N/A	-85.00	+8.42	93.42	VERTICAL	BASE BID
BZ111	466769.634	3219031.347	18"X18" PPC PILE	N/A	-85.00	+8.42	93.42	VERTICAL	BASE BID
BZ113	466775.389	3219041.543	18"X18" PPC PILE	N/A	-85.00	+8.42	93.42	VERTICAL	BASE BID
BZ117	466781.145	3219051.739	18"X18" PPC PILE	N/A	-85.00	+8.42	93.42	VERTICAL	ALT. 1
BZ120	466786.900	3219061.935	18"X18" PPC PILE	N/A	-85.00	+8.42	93.42	VERTICAL	ALT. 1

* PDA PILES

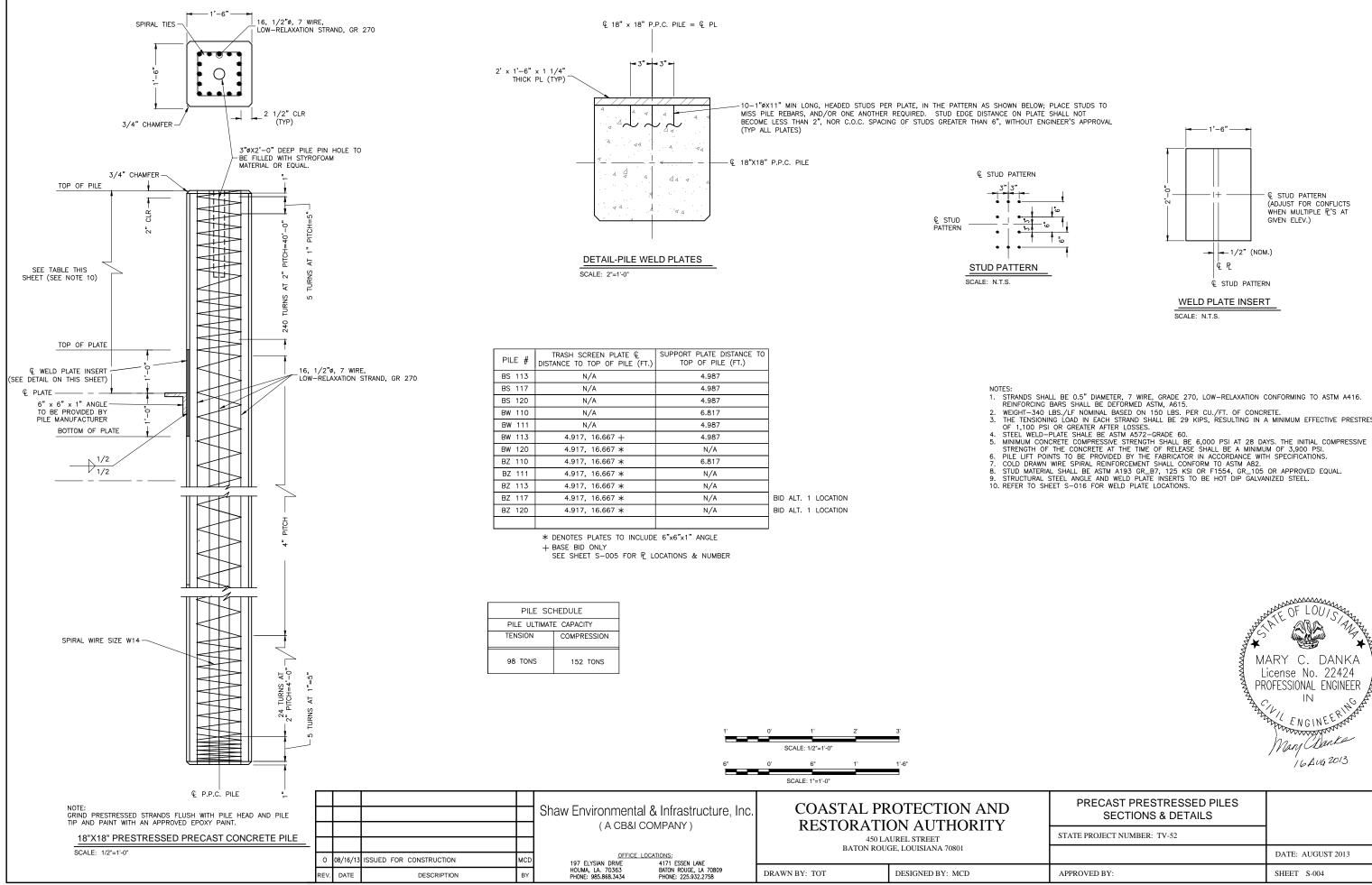
EXISTI	NG PILES
GRID LINE	PILE TYPE
BA105	VERTICAL STEEL
BC100	VERTICAL STEEL
BE101	VERTICAL STEEL
BF105	VERTICAL STEEL
BH102	VERTICAL STEEL
BJ103	VERTICAL STEEL
BL105	VERTICAL STEEL
BL107	BATTERED STEE
BN104	VERTICAL STEEL
BQ105	VERTICAL STEEL
BR107	BATTERED STEE
BT104	VERTICAL STEEL
BU107	BATTERED STEE
BV107	BATTERED STEE
BX107	BATTERED STEE
BY107	BATTERED STEE
CA107	BATTERED STEE
CB106	CAISSON
CB108	CAISSON

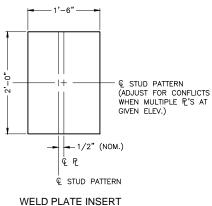
				Shaw Environmental & Infrastructure, Inc. (A CB&I COMPANY)	RESTORATI	ROTECTION AND ON AUTHORITY
						AUREL STREET GE, LOUISIANA 70801
0	08/16/13	ISSUED FOR CONSTRUCTION	MCD	OFFICE_LOCATIONS: 197 ELYSIAN DRIVE 4171 ESSEN LANE		
EV.	DATE	DESCRIPTION	BY	HOUMA, LA. 70363 BATON ROUGE, LA 70809 PHONE: 985.868.3434 PHONE: 225.932.2758	DRAWN BY: TOT	DESIGNED BY: MCD

- NOTE: 1. PRE-CONSTRUCTION SURVEY TO LOCATE ALL EXISTING PILE LOCATIONS.
- CONTRACTOR SHALL REMOVE SINGULAR BLOCK ELEMENT AS NECESSARY TO DROP ACB MATS OVER PPC PILES. MATS SHALL BE STRAPPED TOGETHER EVERY 5' (MIN.) AND AS RECOMMENDED BY MANUFACTURER.
- 3. SEE DETAIL A SHEET S-010 FOR MAT TIE DETAIL.



PILE LAYOUT	
STATE PROJECT NUMBER: TV-52	
	DATE: AUGUST 2013
APPROVED BY:	SHEET S-003





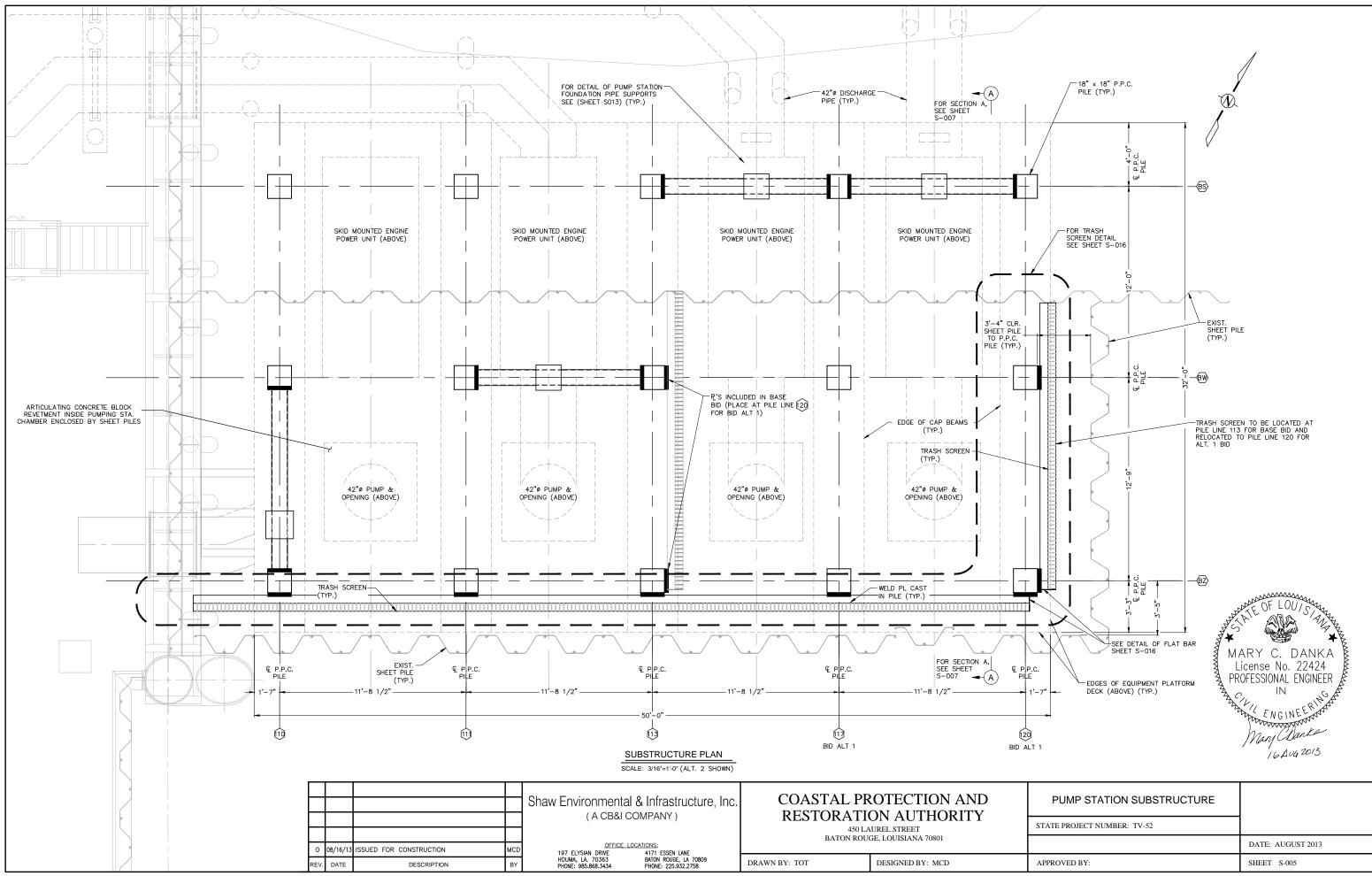


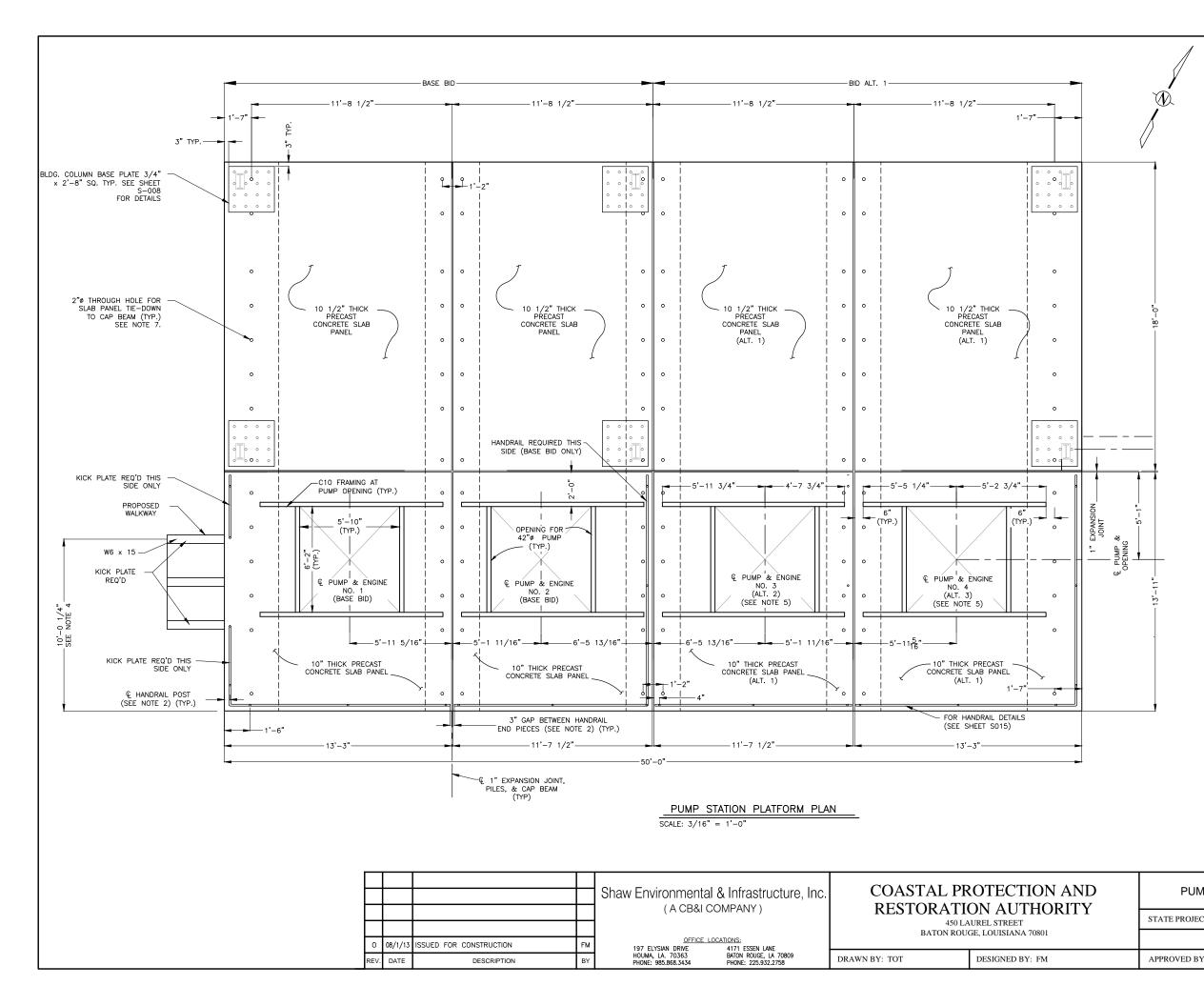
SCALE: N.T.S.

NOIES: 1. STRANDS SHALL BE 0.5" DIAMETER, 7 WIRE, GRADE 270, LOW-RELAXATION CONFORMING TO ASTM A416. REINFORCING BARS SHALL BE DEFORMED ASTM, A615. 2. WEIGHT-340 LBS./LF NOMINAL BASED ON 150 LBS. PER CU./FT. OF CONCRETE. 3. THE TENSIONING LOAD IN EACH STRAND SHALL BE 29 KIPS, RESULTING IN A MINIMUM EFFECTIVE PRESTRESS OF 1,100 PSI OR GREATER AFTER LOSSES.



	A STATE OF A
DATE: AUGUST 2013	THE REAL OF
SHEET S-004	1010

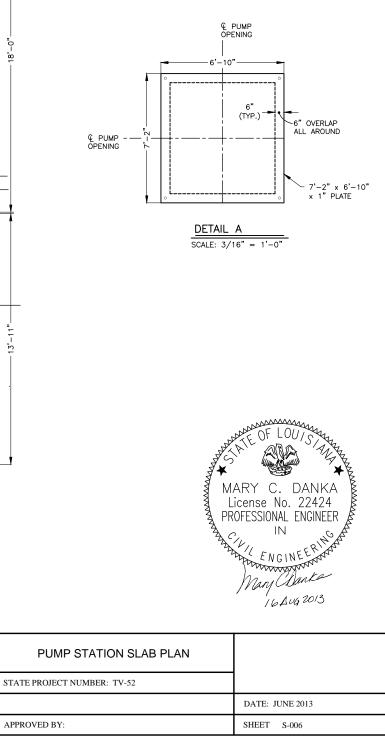


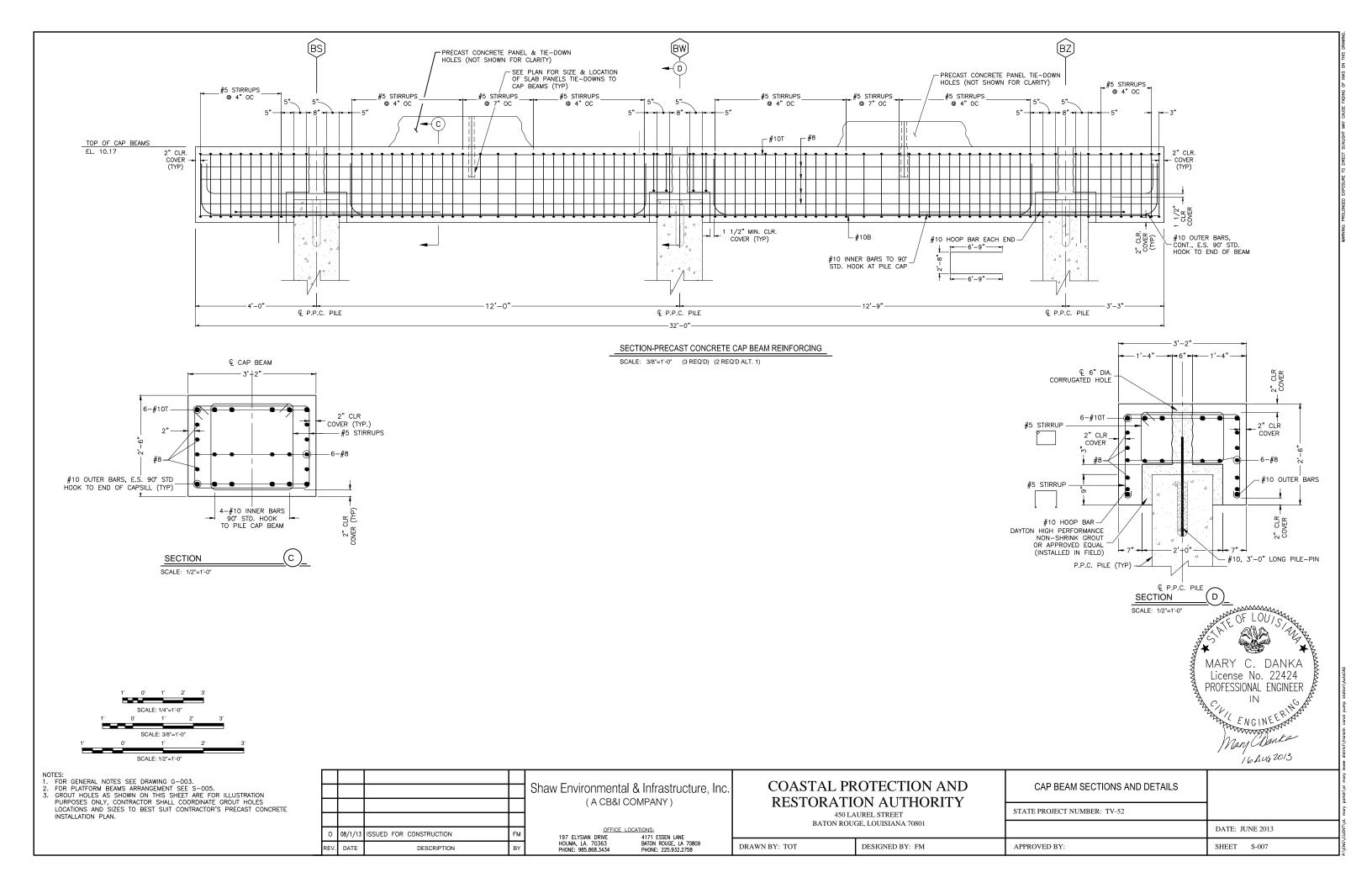


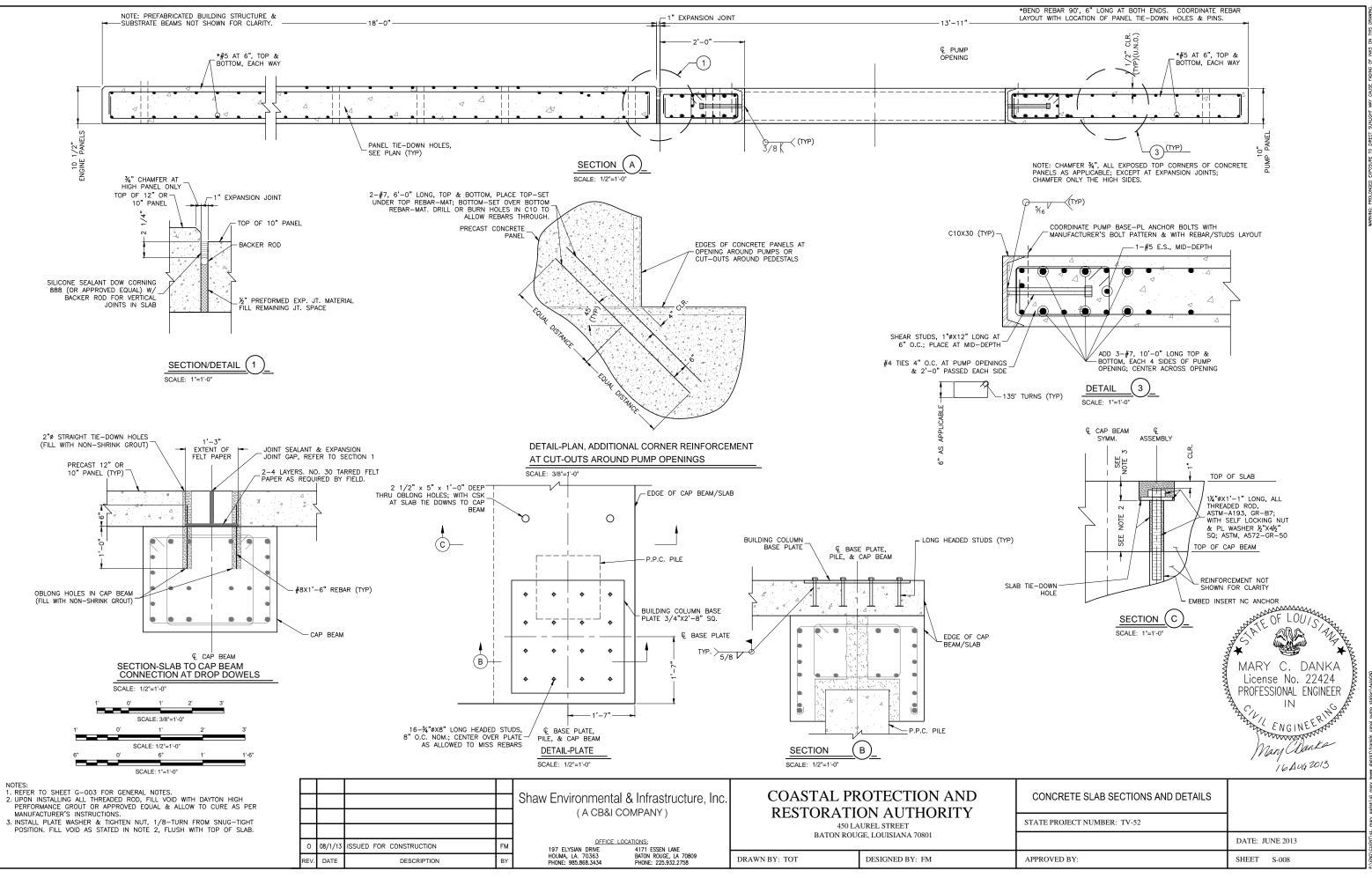


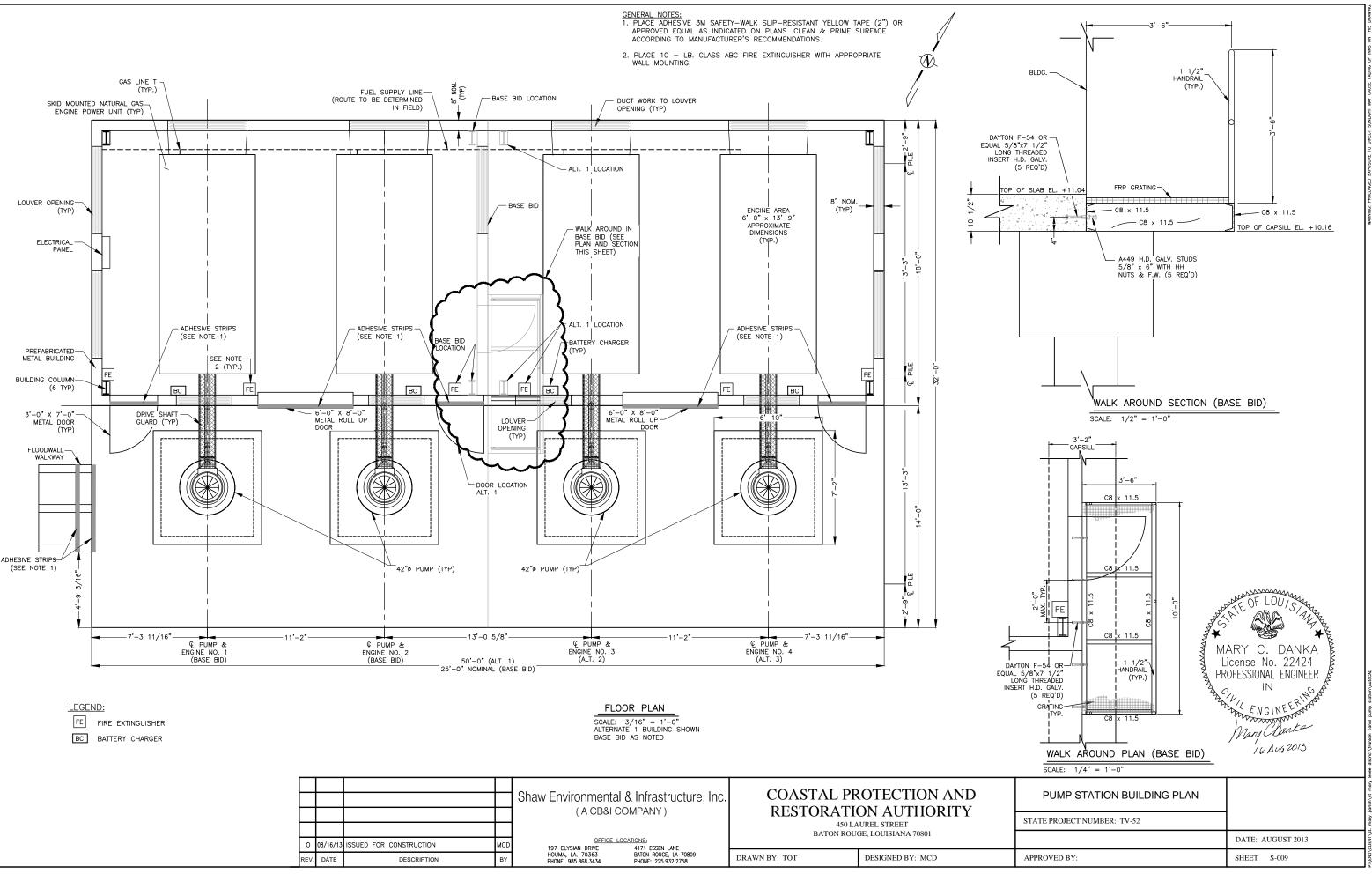
- 1. REFER TO SHEET GOO3 FOR GENERAL NOTES.
- 2. FOR HANDRAIL STD. DETAIL, REFER TO SHEET S-015.
- 3. ALL SLAB JOINTS ARE 1". SEE DETAILS, SHEET S-008.
- 4. WALKWAY LOCATION TO BE VERIFIED IN FIELD. W6 x 15 SECTION TO BE FIELD END SPLICED TO EXISTING WALKWAY W6 x 15 SECTION.
- 5. FOR BID ALT. 1, SEE DETAIL 'A' WHERE COVER PLATE WILL BE INSTALLED IN PLACE OF PUMPS 3 AND 4. UTILIZE SAME BOLT PATTERN AS FOR BASE PLATE.
- 6. PUMP OPENING SIZE SHALL BE VERIFIED WITH PUMP MANUFACTURER.
- DIMENSIONS OF 2"

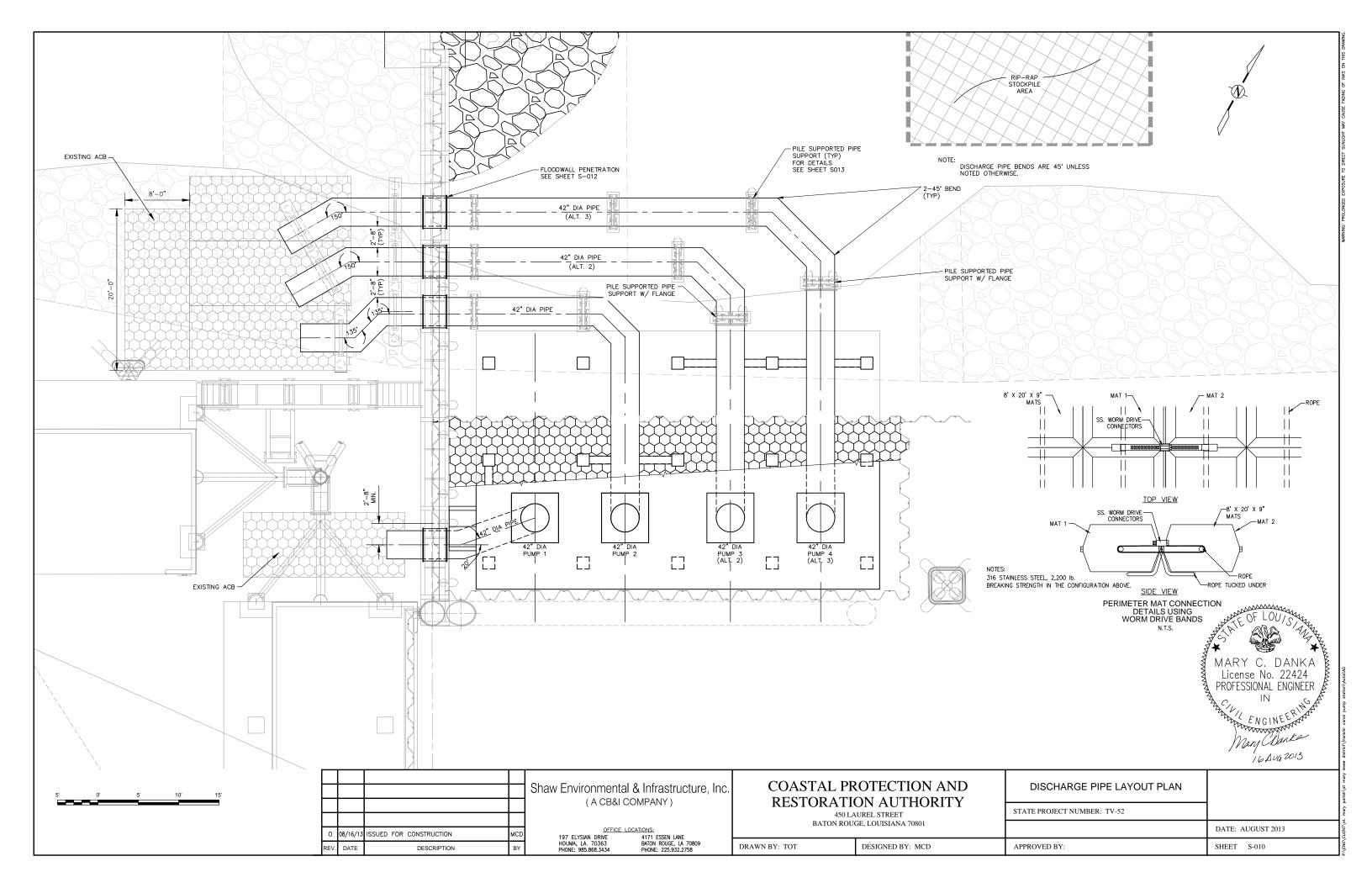
 THROUGH HOLES FOR SLAB PANEL TIE-DOWN TO CAP BEAM TO BE PROVIDED BY CONTRACTOR IN SHOP DRAWINGS.

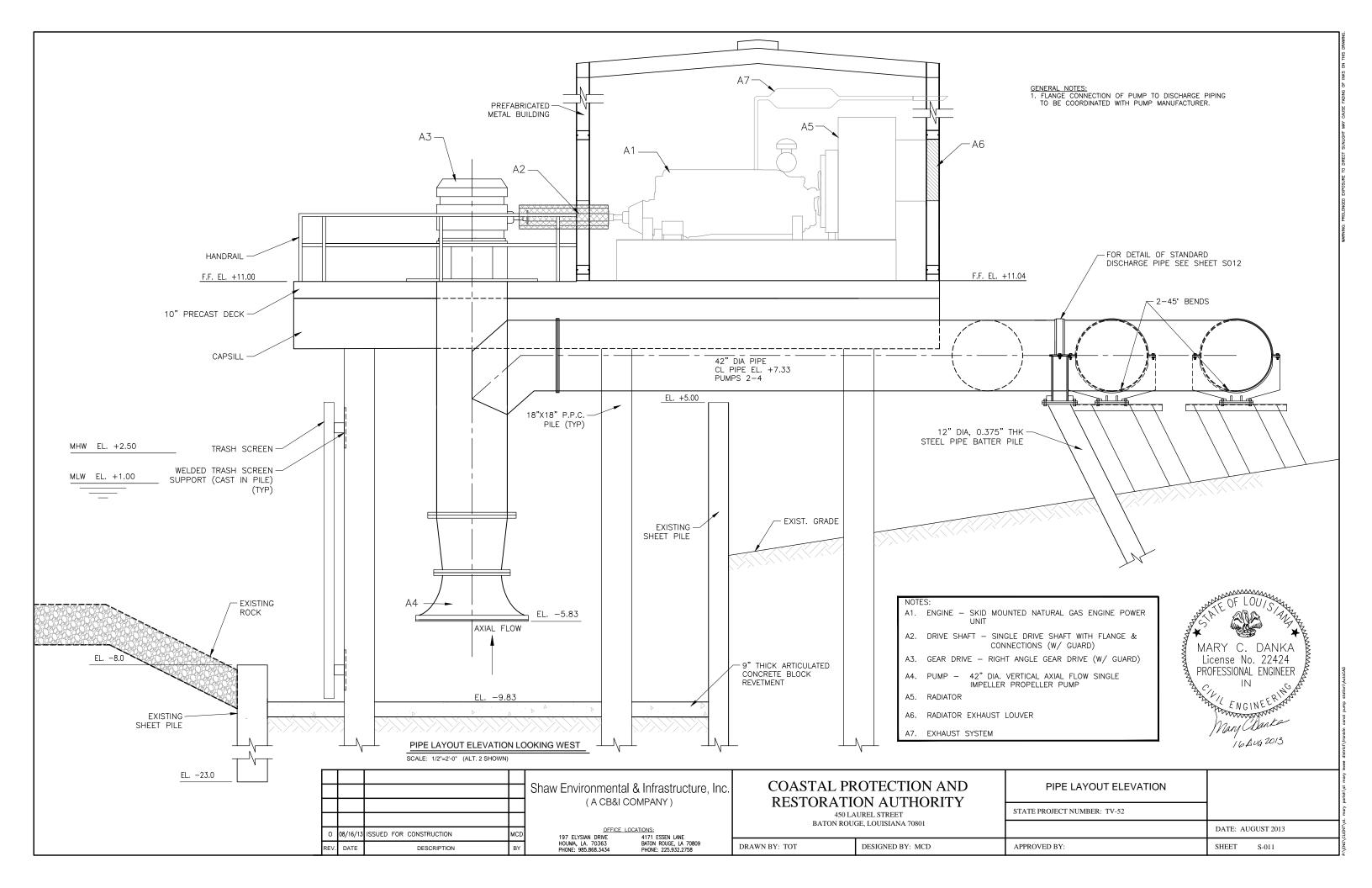


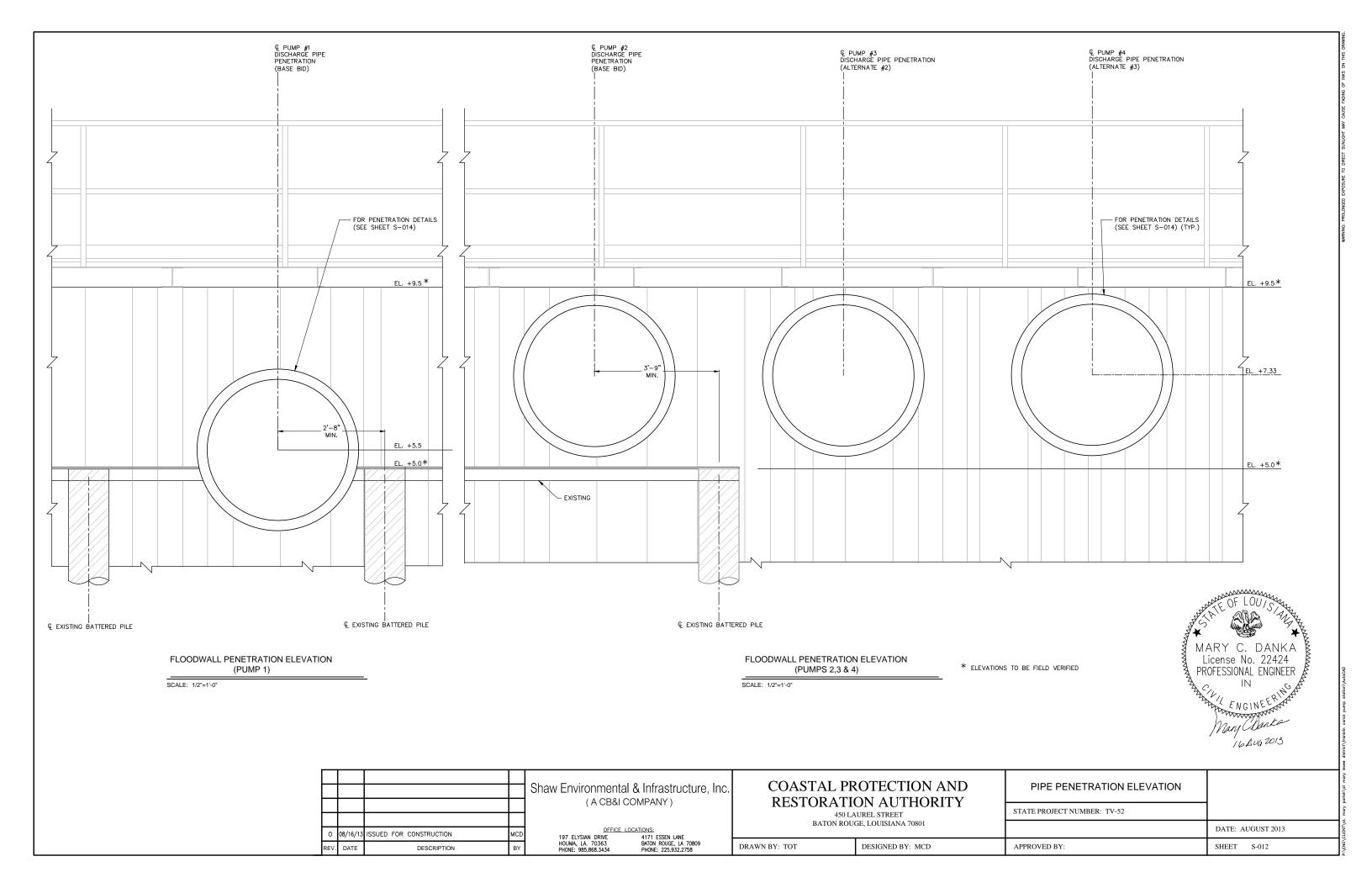


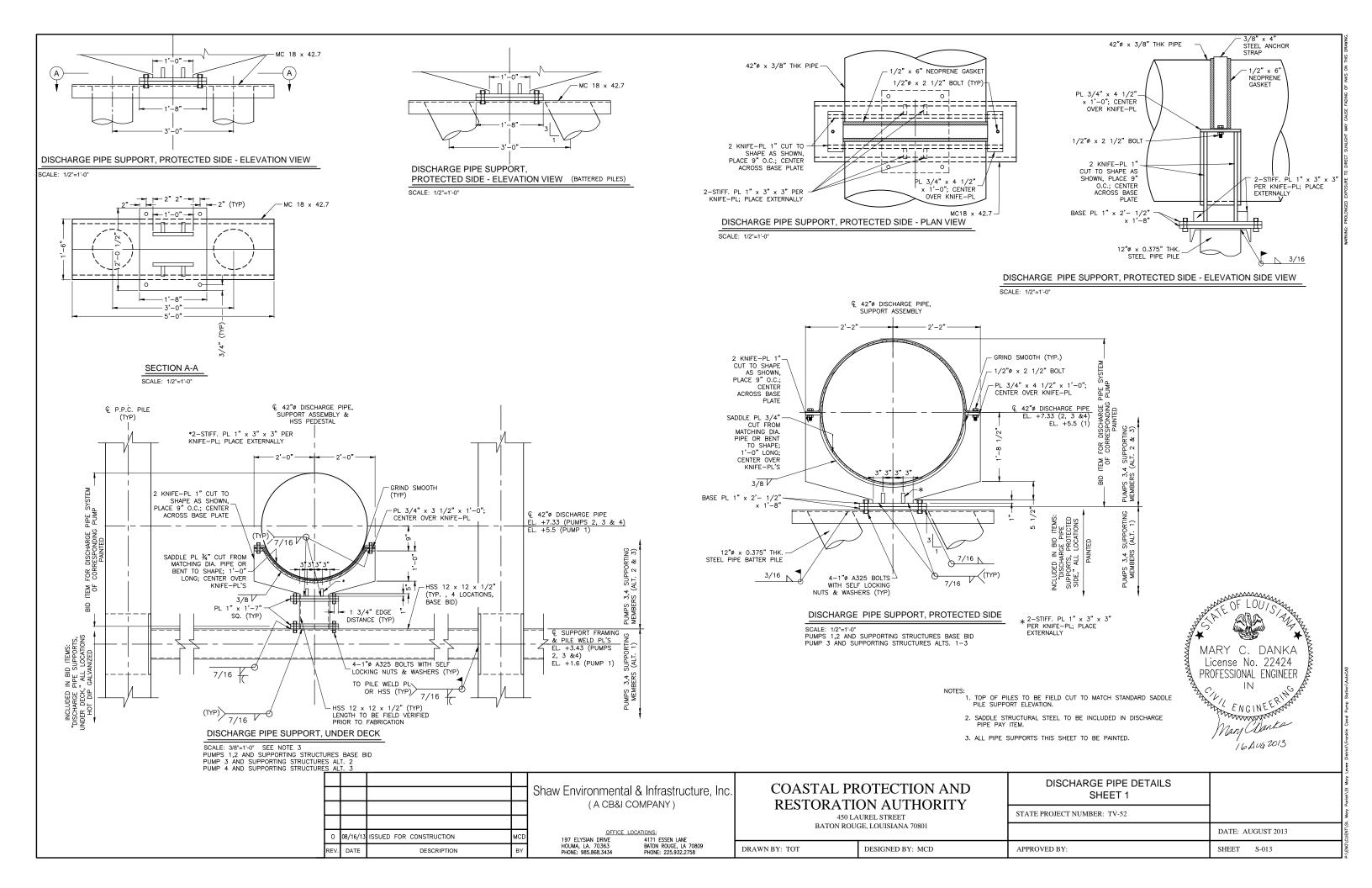


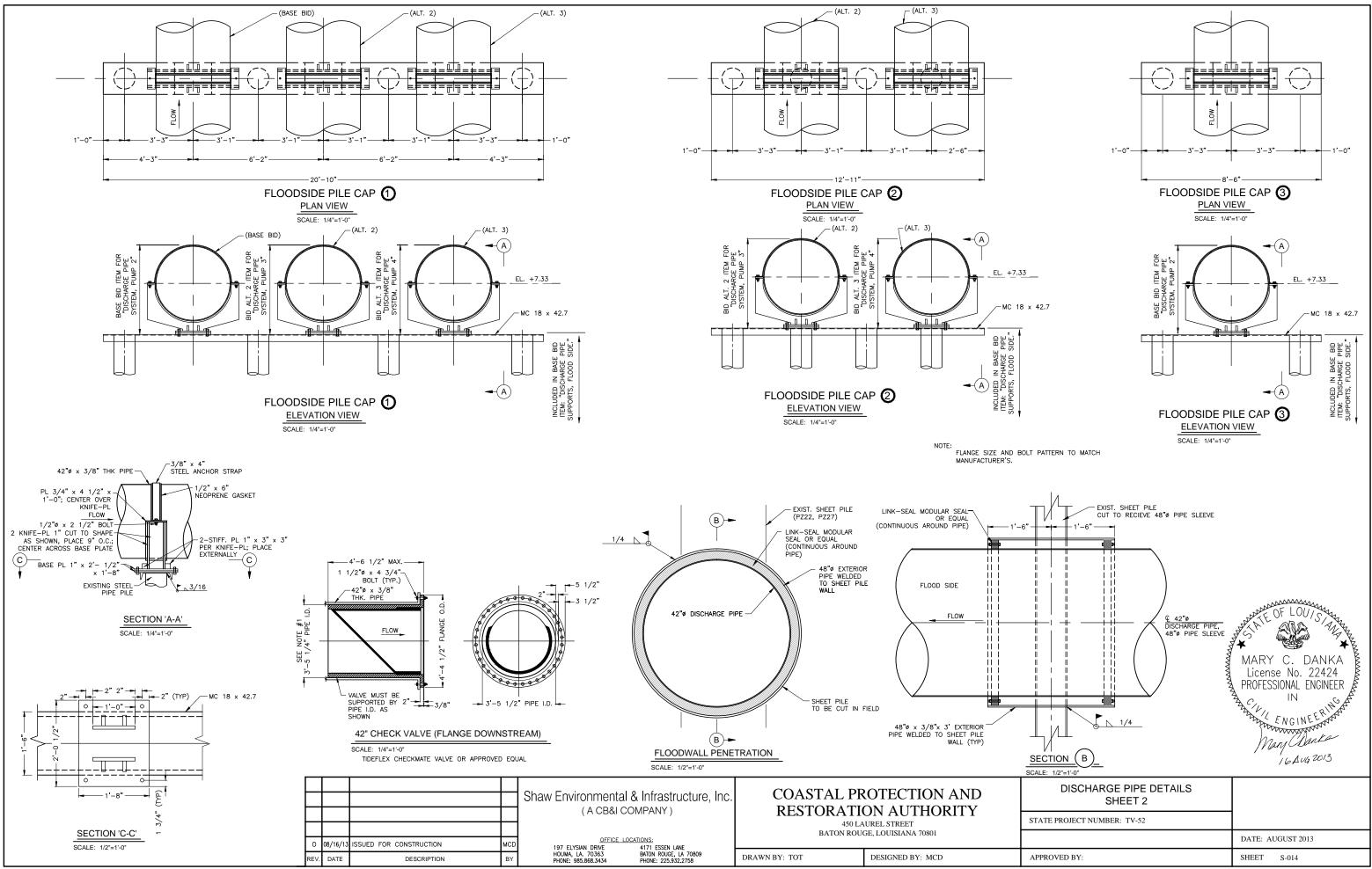




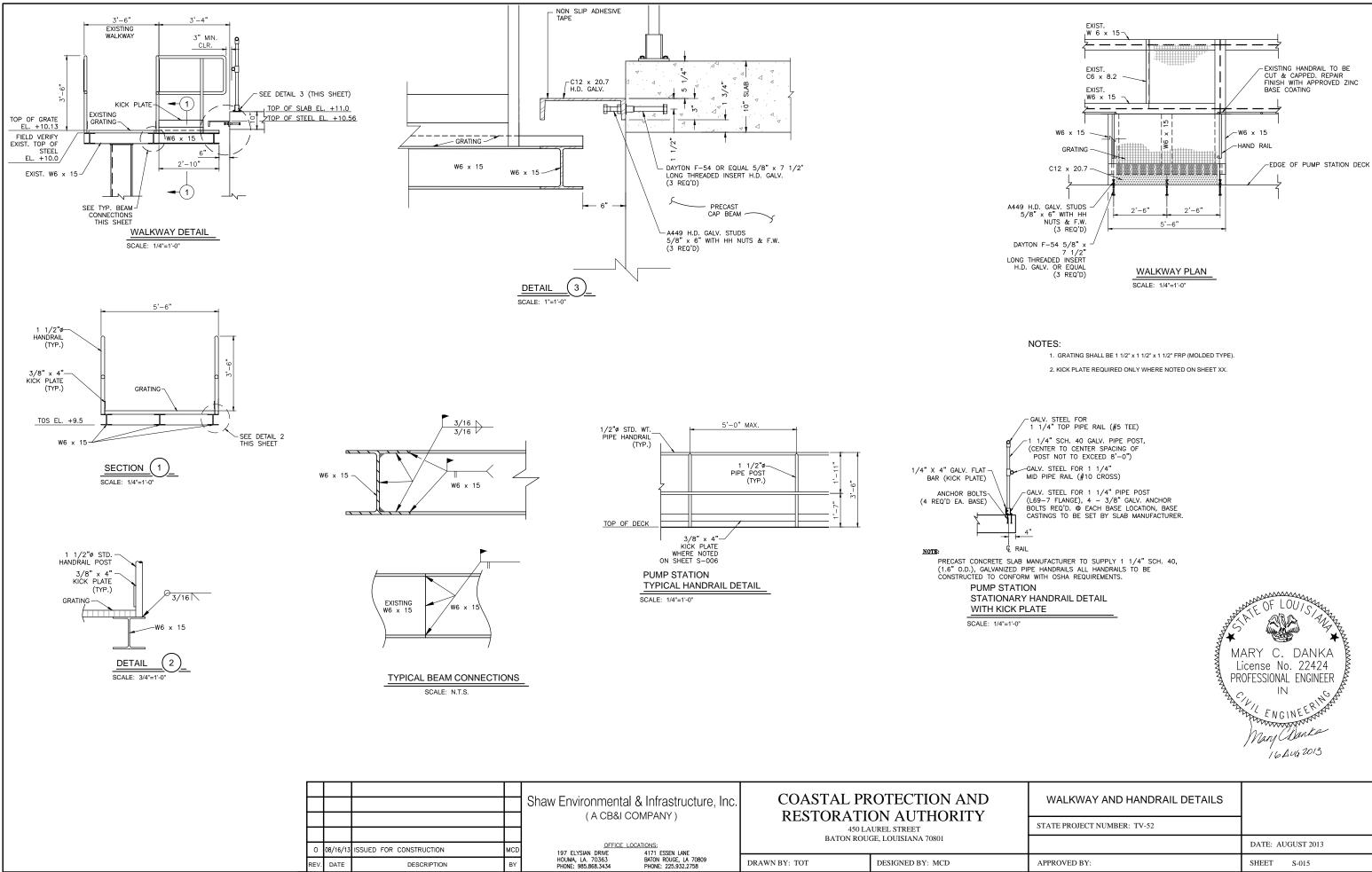




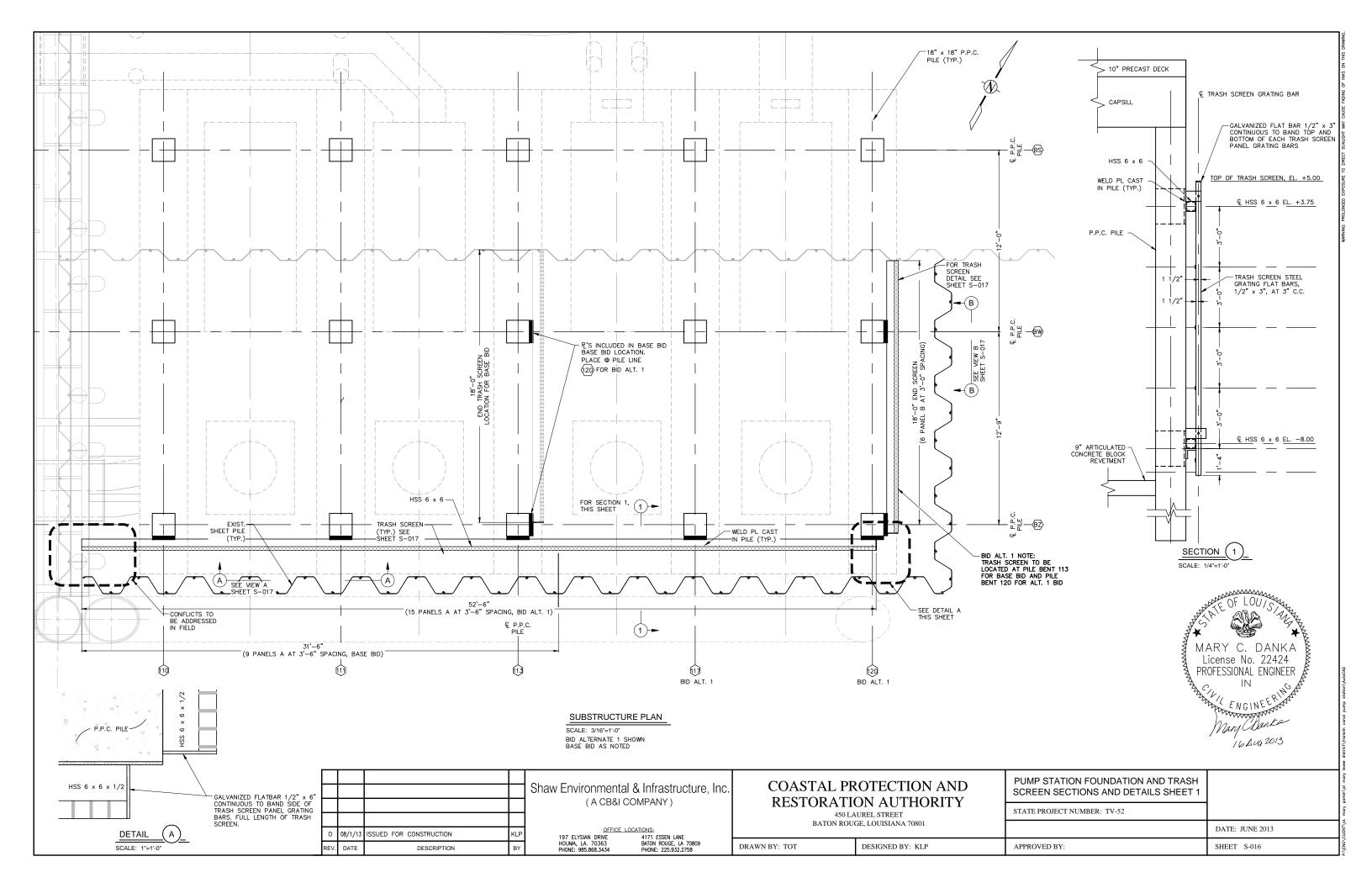


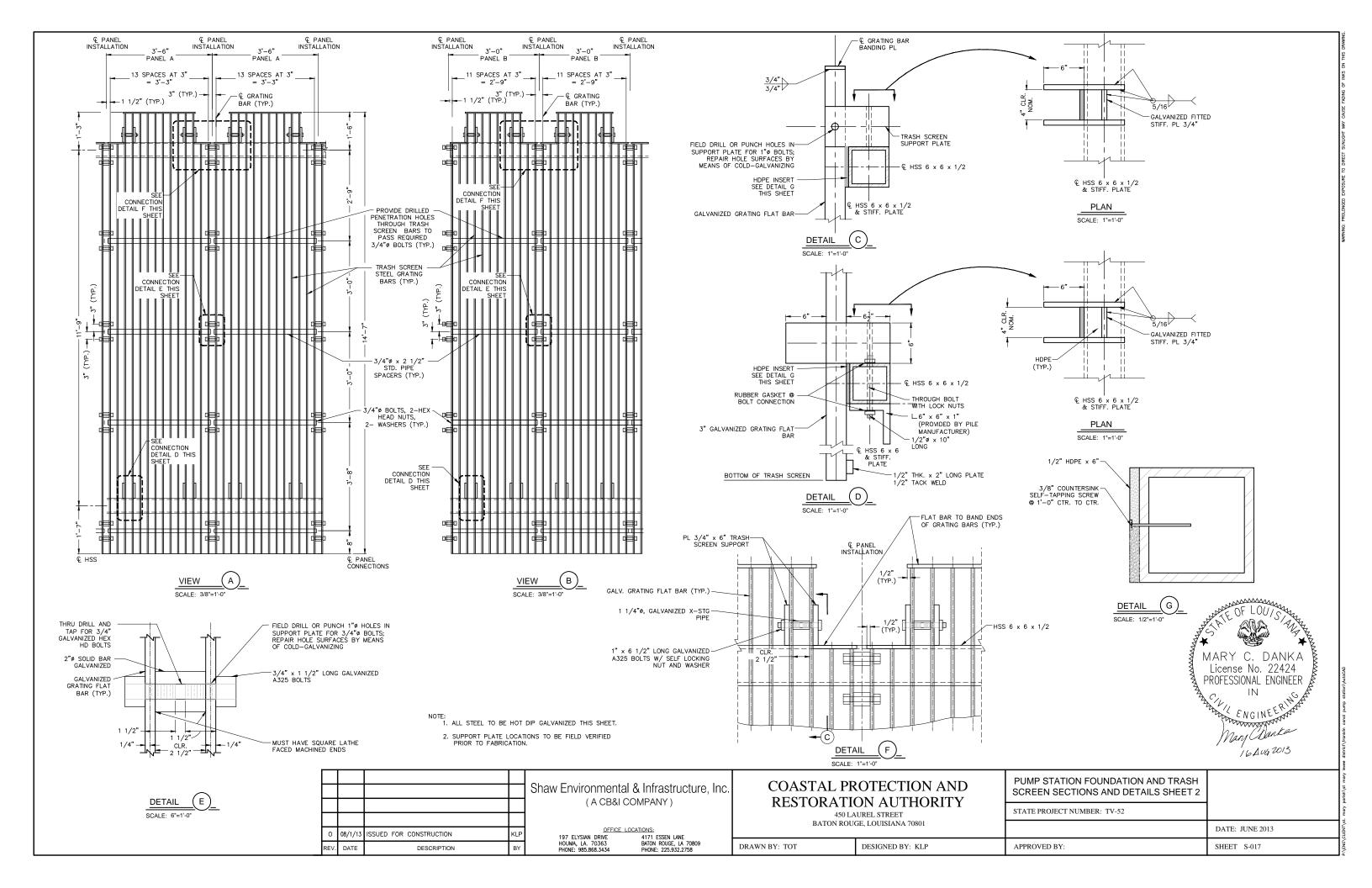


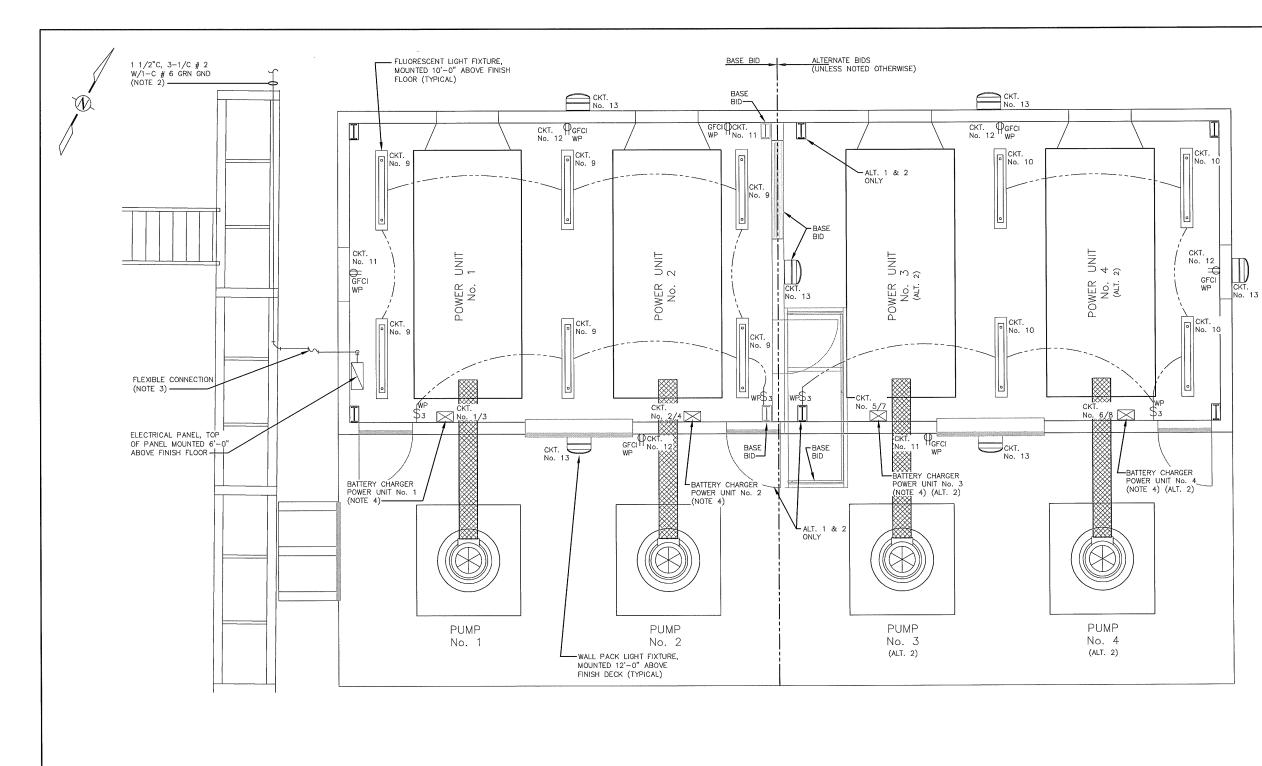
NG\CLIENT\St. Mary Parish\St Mary Levee District\Franklin Canal Pump Station\AutoCAD



WALKWAY AND HANDRAIL DETAILS		parish\st mary
STATE PROJECT NUMBER: TV-52		mary
	DATE: AUGUST 2013	CLIENT\st
APPROVED BY:	SHEET S-015	P:\ENG\C







SCALE: $\frac{PLAN:}{3/8"} = 1'-0"$



1		REVISED FOR CONSTRUCTION	Π	Shaw Environmental & Infrastructure, Inc. (A CB&I COMPANY)	RESTORATIO 450 LA	ROTECTION AND ON AUTHORITY JUREL STREET GE, LOUISIANA 70801
REV	. DATE	DESCRIPTION	BY	197 ELYSIAN DRIVE 4171 ESSEN LANE HOUMA, LA. 70363 BATON ROUGE, LA 70809 PHONE: 985.868.3434 PHONE: 225.932.2758	DRAWN BY: PH	DESIGNED BY: PH

PUMP STATION BUILDING ELECTRICAL PLAN	
STATE PROJECT NUMBER: TV-52	
	DATE: AUGUST 2013
APPROVED BY: RST	SHEET E-001

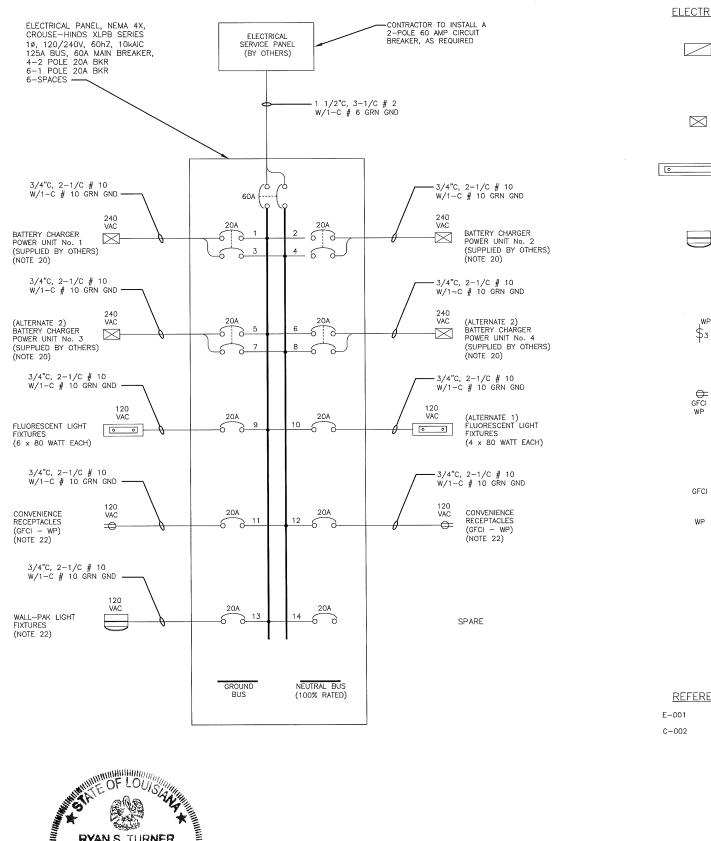


REFERENCE DRAWINGS:

E-002	ELECTRICAL NOTES & BLOCK	DIAGRAM
C-002	PUMP STATION SITE PLAN	

- 1. FOR ELECTRICAL GENERAL NOTES AND LEGEND, SEE ELECTRICAL NOTES & BLOCK DIAGRAM, DRAWING №. E-002.
- CONTINUE TO ELECTRICAL SERVICE PANEL, BY WAY OF WALKWAY AND UNDERGROUND. CONTRACTOR TO ROUTE AND SUPPORT, AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR CONDUIT TO BE SUPPORTED PER APPLICABLE CODES.
- 3. DUE TO THE DEFLECTION OF THE WALKWAY CAUSED BY STORM WATERS, THE CONDUIT INSTALLATION AT THIS LOCATION SHALL BE FLEXIBLE TO ALLOW A FOUR (4) INCH DECREASE IN DISTANCE BETWEEN WALKWAY AND PUMP HOUSE. SEALTITE LIQUID-TIGHT FLEXIBLE METAL CONDUIT (LFMC) WITH A GROUND BONDING JUMPER IS ACCEPTACLE FOR INSTALLATION AT THIS LOCATION.
- 4. BATTERY CHARGER SUPPLIED BY THE PUMP SYSTEM VENDOR AND ENERGIZED BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL VERIPY THE REQUIRED CIRCUIT SIZE AND CIRCUIT CONNECTION METHOD WITH THE BATTERY CHARGER SUPPLIED.
- 5. LIGHTING OF THE ACCESS WALKWAY TO BE PROVIDED BY OTHERS.

NOTES:

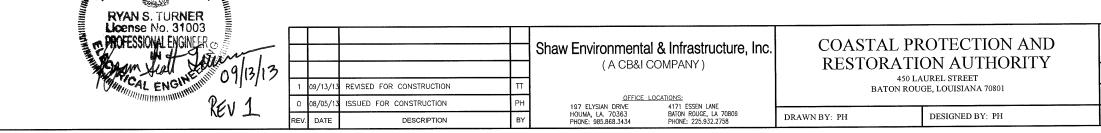


RICAL LEGE	END:	EL	ECTRICAL
1	ELECTRICAL PANEL, NEMA 4X, CROUSE-HINDS XLPB SERIES (OR APPROVED EQUAL)		ALL ELECTRIC ELECTRIC CO RULES/REGU
	1ø, 120/240V, 60hZ, 10kAlC 125A BUS, 60A MAIN BREAKER, 4-2 POLE 20A BKR 6-1 POLE 20A BKR		THE ELECTRI STATE OR LO REQUIRED FO
3	6-SPACES BATTERY CHARGER	3.	<u>CAUTION:</u> U THE CONTRA ARE NOT SH
]	(SUPPLIED BY OTHERS) (NOTE 20)	4.	ANY NECESS ATTENTION. ALL FIELD C
0	FLUORESCENT LIGHT FIXTURE CROUSE-HINDS FVN SERIES (OR APPROVED EQUAL) 80W, 120VAC, 60hZ CLASS 1, DIV. 2 2-40W BULB FIXTURE	5.	ALL ABOVE AND SHALL AND UNDERC URETHANE IN AND LARGER
	WALL PACK, METAL HALIDE LIGHT FIXTURE CROUSE-HINDS CHAMP-PAK SERIES	6.	FACTORY AN TO A 4.0 M "A" BEFORE
	(OR APPROVED EQUAL) MARINE & WET LOCATION 100W, 120VAC, 60HZ -BULB TIXTURE	7.	CONTRACTOR BUT REQUIR AND THE RE
	WITH BUILT IN PHOTO EYE	8.	CONTRACTOR BE SUPPOR ALL FIELD F BE HOT DIP
/P 3	INDUSTRIAL GRADE, 3-WAY SWITCH, 20A, 120VAC, (HUBBELL HBL1223) IN CAST IRON SINGLE GANG BOX (0-2/GEDNEY TYPE FD) WITH GASKETED LOCKING TOGGLE	9.	CONDUIT RU CONDUIT AN
	SWITCH COVER (O–Z/GEDNEY FS–1–WSCA) (OR APPROVED EQUAL) (MOUNTED 48" AFF)	10.	WHEN REQU CHANNEL W
		11.	ALL CONDUI WITH THE C
= I	WEATHER RESISTANT, INDUSTRIAL GRADE, DUPLEX RECEPTACLE, 20A, 125VAC, 2P-3W-G, NEMA 5-20R (HUBBELL	12.	INSTALL AT (3) 90 DEG
	GFR5362TR) IN CAST IRON SINGLE GANG BOX (O-Z/GEDNEY TYPE FD) WITH GASKETED COVER (O-Z/GEDNEY	13.	CONDUIT CO FITTINGS (O
	FS-1-GFCA) (OR APPROVED EQUAL) (MOUNTED 18" AFF)		ALL EQUIPM LATEST EDIT
1		15.	CONDUIT FI DEFINED IN
	GROUND FAULT CIRCUIT INTERRUPT	16.	UNLESS OTI COPPER. (CONDUCTOR CABLES.
		17.	ALL ELECTR
		18.	ALL ELECTR CONDUCTOR CODE (NEC
		19.	EQUIPMENT REQUIREMEN
		20.	BATTERY CH CONTRACTO CONNECTIO
		21	ELECTRICAL CONTRACTO ALL PHASE
		~~~	

#### REFERENCE DRAWINGS:

E-001 PUMP STATION BLDG ELECTRICAL PLAN

002 PUMP STATION SITE PLAN



L GENERAL NOTES:

ICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ODE (NEC), NFPA, NEMA, ANSI STANDARDS, NATIONAL ELECTRICAL SAFETY CODE AND ULATIONS OUTLINED IN ANY FEDERAL, STATE OR LOCAL ORDINANCE AND CODES.

RICAL CONTRACTOR SHALL PROVIDE ALL PERMITS AND INSPECTIONS AS REQUIRED BY FEDERAL, LOCAL ORDINANCES. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TEMPORARY POWER FOR CONSTRUCTION PURPOSES.

UNCHARTED AND/OR UNDOCUMENTED OBSTRUCTIONS MAY EXIST. PRIOR TO ANY EXCAVATION, VACTOR SHALL FIELD VERIFY THE LOCATIONS OF ANY POSSIBLE UNDERGROUND UTILITIES THAT SHOWN ON THE CONTRACT DOCUMENTS.

SSARY FIELD CHANGES TO DRAWINGS SHALL BE RECORDED AND BROUGHT TO OWNER'S AGENT . AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL RETURN ONE SET OF PRINTS WITH CHANGES INDICATED ON THEM.

GROUND CONDUIT AND FITTINGS SHALL BE HOT DIPPED RIGID GALVANIZED STEEL (U.L. LISTED) BE A MINIMUM OF 3/4" IN DIAMETER. ALL UNDERGROUND CONDUIT SHALL BE SCH. 80 PVC RGROUND CONDUIT ELBOW FITTINGS SHALL BE PVC COATED RIGID GALVANIZED STEEL WITH INTERIOR COATING. CONDUIT FITINGS SHALL BE FORM 7 AND ALL CONDUIT BENDS 1 1/2" RS SHALL BE FACTORY LONG RADIUS ELBOWS.

IND FIELD CUT STEEL CONDUIT THREADS SHALL BE CLEANED WITH A DEGREASER AND COATED MIL DRY FILM THICKNESS WITH ZINC GALVANIZED SPRAY PAINT, THEN COATED WITH PENETROX E MAKING JOINTS. CONDUIT JOINTS TO BE SCREWED TIGHT TO ENSURE GOOD CONDUCTIVITY.

OR SHALL BE RESPONSIBLE FOR ALL CONDUIT FITTINGS, DRAINS, BREATHERS, ETC, NOT SHOWN IRED FOR A COMPLETE ELECTRICAL INSTALLATION CONSISTENT WITH GOOD ENGINEERING PRACTICE REQUIREMENTS DEFINED IN THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (NEC).

OR IS RESPONSIBLE FOR CONDUIT TO BE SUPPORTED PER APPLICABLE CODES. CONDUIT SHALL ORTED FROM BUILDING STRUCTURAL STEEL. PROVIDE ADDITIONAL SUPPORT STEEL AS REQUIRED. FABRICATED STEEL CONDUIT SUPPORTS THAT WILL BE ATTACHED TO STRUCTURAL STEEL SHALL BIPED GALVANIZED. ALL WELDS SHALL BE TOUCHED UP WITH A COLD GALVANIZED SPRAY.

RUNS SHALL BE ROUTED PARALLEL WITH THE BUILDING STRUCTURAL STEEL. FIELD ROUTED NOT SUPPORTS SHALL BE INSTALLED TO AVOID INTERFERENCES WITH MECHANICAL EQUIPMENT.

DUIRED, UNISTRUT CONDUIT SUPPORTS SHALL BE P-1000 OR P-1001 GALVANIZED STEEL WITH UNISTRUT PIPE CLAMPS FOR MULTIPLE CONDUIT RUNS.

UIT FITTINGS AND JUNCTION BOXES SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATIONS COVERED OPENING ORIENTED FOR MAXIMUM ACCESSIBILITY.

LEAST ONE PULL FITTING IN EVERY 300 FEET OF A CONDUIT RUN. NO MORE THAN THREE GREE CONDUIT BENDS SHALL BE ALLOWED BETWEEN PULL FITTINGS.

CONNECTIONS TO SHEET METAL ENCLOSURES SHALL BE MADE WITH A GROUNDING MYERS HUB OR APPROVED EQUAL).

MENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH LOCAL REGULATIONS AND THE ITION OF THE NATIONAL ELECTRIC CODE (NEC).

FITTINGS AND BOXES CONTAINING CONDUCTOR SPLICES SHALL BE SIZED PER THE REQUIREMENTS N THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (NEC).

THERWISE NOTED, ALL SINGLE CONDUCTORS SHALL BE TYPE THWN, 600V, 75°C INSULATED CONDUCTOR SIZE SHALL BE BASED ON 40°C AMBIENT TEMPERATURE. SIZE # 10 AWG RS SHALL BE SOLID CABLES AND # 8 AWG & LARGER CONDUCTORS SHALL BE STRANDED

RICAL CIRCUITS SHALL INCLUDE A SEPARATE NEUTRAL CONDUCTOR (WHERE REQUIRED).

TRICAL CIRCUITS SHALL INCLUDE A SEPARATE GREEN, THWN COPPER EQUIPMENT GROUNDING OR, SIZED PER THE REQUIREMENTS DEFINED IN THE LATEST EDITION OF THE NATIONAL ELECTRIC EC), TO GROUND THE ELECTRICAL EQUIPMENT TO THE POWER PANEL.

T INSTALLATION SHALL COMPLY WITH WORKING CLEARANCES AND DEDICATED EQUIPMENT SPACE SNTS DEFINED IN THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (NEC).

CHARGER SUPPLIED BY THE PUMP SYSTEM VENDOR AND ENERGIZED BY THE ELECTRICAL OR. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE REQUIRED CIRCUIT SIZE AND CIRCUIT ON METHOD WITH THE BATTERY CHARGER SUPPLIED.

L CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL EQUIPMENT WITH ALL OTHER ORS (CIVIL / STRUCTURAL / MECHANICAL) PRIOR TO COMMENCEMENT OF PROJECT AND DURING ES OF CONSTRUCTION.

22. SOME ELECTRICAL LOADS ARE FOR BASE BID AND ALTERNATE 1. FOR QUANTITY OF ELECTRICAL LOADS, REFER TO PUMP STATION BLDG ELECTRICAL PLAN ON DRAWING E-001.

ELECTRICAL NOTES & BLOCK DIAGRAM		Parish\St Mary
STATE PROJECT NUMBER: TV-52		t. Mary
	DATE: AUGUST 2013	CLIENT\S
APPROVED BY: RST	SHEET E-002	P:\ENC\