

PROJECT COMPLETION REPORT
FOR THE
GIWW TO CLOVELLY RESTORATION (BA-02)
2015 MAINTENNCE PROJECT



January 5, 2018



Coastal Protection and
Restoration Authority of Louisiana



PROJECT COMPLETION REPORT

PROJECT NAME	GIWW to Clovelly Hydrologic Restoration (BA-02) 2015 Maintenance
CONTRACT NUMBER	4400010331
PURCHASE ORDER NUMBER	2000248112

Report Date: Decemeber 11, 2017 By: Stanley Consultants, Inc./CPRA

1. Project Personnel

CPRA Project Manager:	Brian Babin, P.E.	(985) 447-0956
Stanley Consultants Senior Engineer:	James Smith, P.E.	(225) 983-1191
Stanley Consultants Project Manager:	Jacob Loeske, P.E.	(225) 388-4209
Stanley Consultants Inspector:	Stanley Jordan	N/A
DQSI Project Manager:	Stanley Lee	(813) 961-0751
DQSI Project Superintendent:	Martin Klein	(504) 458-8631
DQSI Project Superintendent:	Darryl Deviller	(985) 960-0447
Land Owner – Little Lake Land Co. –Rep.	Randy Moertle	(985) 856-3630

2. Project Location & Description

The GIWW to Clovelly Hydrologic (BA-02) Project encompasses approximately 14,948 acres of marsh habitat located in the Barataria Basin near the Gulf Intracoastal Waterway (GIWW) in Lafourche Parish, Louisiana. The project was completed in 2000 and included four (4) fixed crest rock weirs, one (1) variable crest weir, four (4) canal plugs, one (1) channel plug with culvert and flap gate, approximately 6,000 linear ft. of rock lake rim restoration and approximately 5,000 linear ft. of earthen bankline stabilization.

As a result of annual inspections and damage assessments of the GIWW to Clovelly Hydrologic (BA-02) Restoration project conducted over the years by the Coastal Protection and Restoration Authority (CPRA) and the Natural Resource Conservation Service (NRCS), deficiencies along the shoreline of Bay L' Ours south of Little Lake were identified as an area that needed to be protected with a hardened structure to slow erosion of the bankline. The bankline between Structures No.4 and No.2 in this area has eroded to a point where there is only a small strip of marsh remaining between the bank and the interior canal connecting the structures. The GIWW to Clovelly (BA-02) -2015 Maintenance Project was implemented to provide protection along the bankline of Bay L' Ours between Structures No.2 and No.4 with approximately 1,700 linear feet of rock dike revetment.

3. Final Constructed Features

The final constructed length of the rock bankline protection project between Structures No.2 and No.4 was approximately 1,730 liner ft., utilizing nearly 13,912 tons of 130# class of rock riprap, 7,830 square yards of geotextile fabric, and installation of twelve (12) permanent warning signs. Temporary access and floatation channels were also constructed and temporary warning signs installed to facilitate the work.

4. Project Cost Element

	CPRA Overall Projected Cost Estimates	Actual Overall Project Costs
Construction	\$1,457,850	\$1,377,181.66
Surveying	\$22,500	\$15,910
E&D	\$88,812	\$99,283
Construction Admin, Inspection	\$120,000	\$148,196
CPRA Administration	\$20,000 (est.)	\$30,000 (est.)
Project Cost Totals:	\$1,709,162	\$1,670,571

5. Items of Work

Item	Work	Estimated Quantity	Unit	Estimated Unit Price	Estimated Amount	Unit Bid Price	Bid Amount	Final Quantity	Final Contract Amount	% Over/Under
1	MOBILIZATION AND DEMOBILIZATION	1	LS	\$60,000.00	\$60,000.00	\$130,000.00	\$130,000.00	1	\$130,000.00	0%
2	CONSTRUCTION SURVEYS	1	LS	\$40,000.00	\$40,000.00	\$60,000.00	\$60,000.00	1	\$60,000.00	0%
3	ACCESS AND FLOATATION CHANNELS	1	LS	\$60,000.00	\$60,000.00	\$84,000.00	\$84,000.00	1	\$84,000.00	0%
4	130 LB RIPRAP	14,300	TON	\$75.00	\$1,072,500.00	\$66.00	\$943,800.00	13,912	\$918,192	-3%
5	TEMPORARY WARNING SIGNS	36	EA	\$4,000.00	\$144,000.00	\$1,666.67	\$60,000.12		\$60,000.12	0%
6	PERMANENT WARNING SIGNS	12	EA	\$5,000.00	\$60,000.00	\$4,166.67	\$50,000.04		\$50,000.04	0%
7	WOVEN GEOTEXTILE FABRIC	11,000	SY	\$4.00	\$44,000.00	\$4.55	\$50,050.00	7,830	\$35,626.50	-29%
8	DE-ENERGIZE POWER LINES	4	EA	\$6,000.00	\$24,000.00	\$20,000.00	\$80,000.00		\$40,000	0%
				Total Estimate	\$1,504,500.00	Total Bid	\$1,457,850.16		\$1,377,818.66	

6. Construction and Construction Oversight

Prime construction contractor	DQSI, LLC
Subcontractor	APC Construction, LLC
Original construction contract	\$1,457,850.16
Change orders	4 (No Cost)
Over/Under runs	\$80,031.50
Final construction contract	\$1,377,818.66

7. Major Equipment Used

120 x 30 or 130 x 54 or 140 x 40 Spud barge
 Cat 290 Long Reach or Komatsu 290 Long Reach Excavator or Hyundai 520 Long Reach Excavator

30' Crew Boat
 +/-4 – 195 x 35 Hopper Barges
 Crawler Crane

8. Construction Sequence

11/09/16	Survey and stakeout access route across little lake.
11/16/16	Began staking out rock dike alignment and piling locations.
11/28/16	Mobilized crane and barge on-site and fabricated temporary warning signs.
11/29/16	Began driving temporary warnings signs.
12/01/16	installation of temporary warning signs and surveyed locations of permanent warning signs.
12/02/16	Installed permanent warning sign piling and relocated alignment as requested.
12/04/16	Installation of temporary warning signs and excavation of floatation.
12/06/16	Installation of temporary warning signs and continued excavation of floatation channel.
12/12/16	Layout fabric, began placing rock riprap on northern end of structure.
12/14/16	Placing rock, dredge access at southern end of project (200+00 – 200+55). Rock placement was halted due to fabric tearing at seams.
12/16/16	Excavation of access channel and layout of rock dike toe.
12/20/16	Installation of temporary warning signs.
12/21/16	Installation of permanent warning signs.
12/22/16	Gradation test by Kendall, Inc. due to suspect rock gradation and size.
12/27/16	Installation of permanent pile caps.
04/01/17	repairs to damaged berm
04/06/17	Excavation of south access channel and completed permanent warning signs.
04/07/17	Set up equipment for demonstration of rock placement.
04/10/17	Performed demonstration of rock placement.
04/11/17 – 05/03/17	Fabric layout and placement of rock riprap
05/04/17	rock placement and surveying
05/12/17	Completed construction of rock dike.
05/15/17	Pulling temporary sign piling.
05/16/17	Backfilling floatation channel removing temporary signs.
05/19/17	Completed backfilling of floatation channel and removing signs.
05/22/17	Project completed.

9. Contract Modifications & Field Changes

Change Order No.1 – Additional 92 days due to delays in Entergy de-energizing power transmission lines from the June 2, 2016, date of the notice to proceed, until September 1, 2016.

Change Order No.2 – an additional 88 days due to further delays of Entergy de-energizing the power transmission line for access to the site. New contract end date of December 30, 2016.

Change Order No.3 – an additional 38 day time extension due to periodic delays in de-energizing power transmission line. New contract end date May, 5, 2017.

Change Order No.4 (Balancing) – an additional 2 day time extension due to inclement weather. New contract end date May 7, 2017.

10. Pipeline and Utility Crossings

Entergy Corporation – transmission line de-energized as required for access to the project site.

11. Construction Safety

No accidents reported during construction.

12. Additional Comments

The project was suspended in December 2016 due to rock riprap quality control problems and workmanship issues with placing stone. Quality control and workmanship issues were resolved and construction ensued in April 2017. The project was substantially completed on May 12, 2017. A lien was filed by the subcontractor to DQSI, LLC, APC Construction, LLC. on July 27, 2017 in the amount of \$359,505.48

13. Significant Construction Dates

	Date
Site Showing	N/A
Bid Opening	04/05/2016
Construction Contract Award	04/18/2016
Preconstruction Conference	06/14/2016
Notice to Proceed	06/02/2016
Mobilization	11/09/2016
Construction Start	11/28/2016
Substantial Completion	05/12/2017
Final Inspection	10/02/2017
Release of Claims	Lien filed 07/27/2017 by APC

14. Appendices

Attachment A – Project Permits

Attachment B – Notice of Award/Construction Contract

Attachment C – Notice to Proceed

Attachment D – Pre-construction Conference Report

Attachment E - Submittals

Attachment F – Change Orders/Field Orders

Attachment G – Request for Information (RFI's) – (Not included in this report)

Attachment H - Substantial Completion

ATTACHMENT A
PROJECT PERMITS

BOBBY JINDAL
GOVERNOR



STEPHEN CHUSTZ
SECRETARY

State of Louisiana
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF COASTAL MANAGEMENT

July 8, 2015

Brian Babin, Agent for NRCS
Coastal Protection and Restoration Authority
1440 Tiger Drive, Suite B
Thibodaux, LA 70301

RE: **C19960223 mod 8**, Coastal Zone Consistency
Natural Resources Conservation Service
Direct Federal Action
Modification of GIWW to Clovelly Hydrologic Restoration Project CWPPRA (BA-02) –
Rock Dike Only (no Marine mattresses) along Bay L'Ours
Lafourche Parish, Louisiana

Dear Mr. Babin:

The above referenced project has been reviewed for consistency with the approved Louisiana Coastal Resource Program (LCRP) as required by Section 307 (c)(1)(A) of the Coastal Zone Management Act of 1972, as amended. The project, as proposed in the application, is consistent with the LCRP. If you have any questions concerning this determination please contact Jim Bondy of the Consistency Section at (225) 342-3870 or 1-800-267-4019.

Sincerely,

/S/ Don Haydel

Acting Administrator
Interagency Affairs/Field Services Division

DH/SK/jab

cc: Michael Farabee, NOD-COE
Dave Butler, LDWF
Kirk Kilgen, OCM FI
Amanda Voisin, Lafourche Parish
James Smith, Stanley Consultants, Inc.

Sheet No.	Sheet Contents
1	Title Sheet
2	General Notes & Quantities
3	Site Plan
4	Typical Section Rock Dike: Sta 100+00 to 106+01 and Sta 200+00 to 200+55
5	Typical Section Rock Dike: Sta 106+01 to 117+31
6	Plan View Sta 100+00 to 107+00 and 200+00 to 200+55
7	Plan View Sta 107+00 to 117+31
8-15	Cross Sections
16	Warning Sign Details

STATE OF LOUISIANA

COASTAL PROTECTION AND RESTORATION AUTHORITY

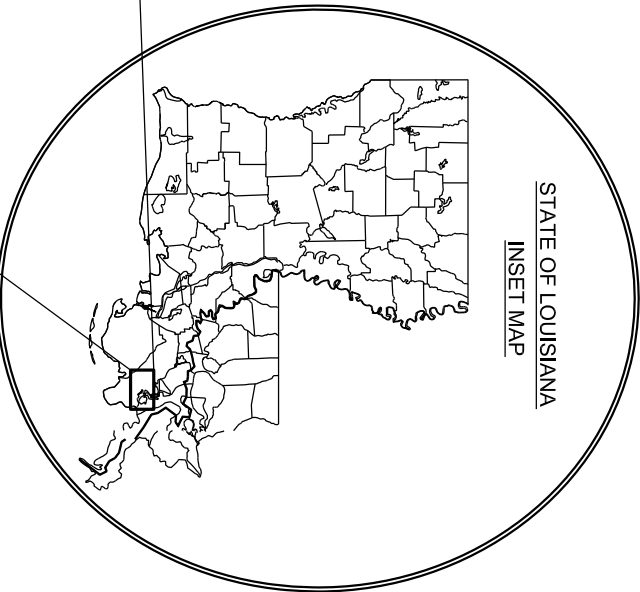
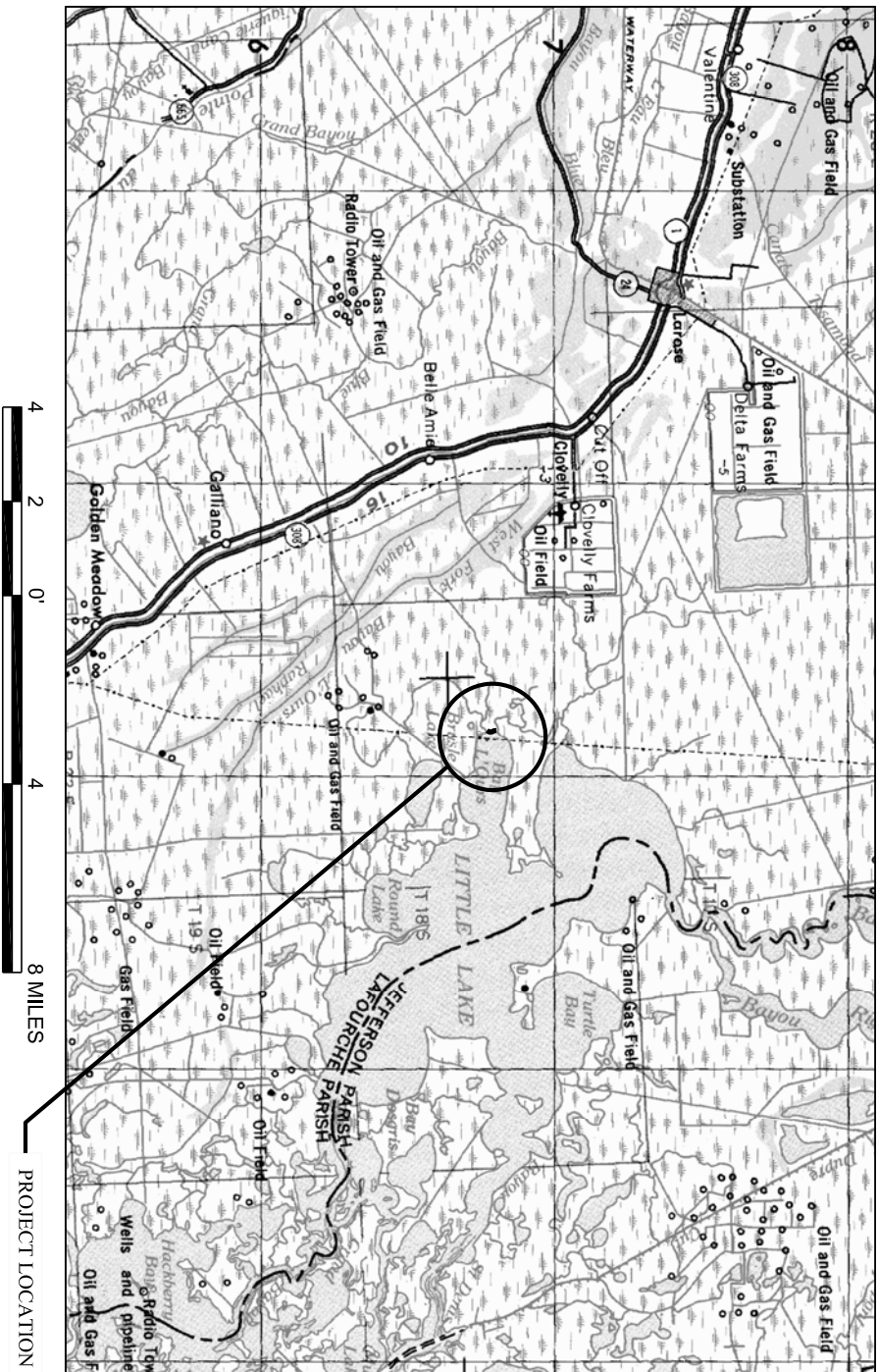
OPERATIONS DIVISION

GIWW TO CLOVELLY HYDROLOGIC RESTORATION

2015 MAINTENANCE PROJECT

PROJECT NO: BA-02

LAFOURCHE PARISH, LA



TYPE OF CONSTRUCTION			
CLASSIFICATION III			
HEAVY CONSTRUCTION			
REV.	DATE	DESCRIPTION	BY
<div><p>Stanley Consultants inc.</p><p>225 Iowa Avenue, Muscatine, Iowa 52761-3764 www.stanleyconsultants.com</p></div>			
DRAWN BY: SRH		DESIGNED BY: SRH	
COASTAL PROTECTION AND RESTORATION AUTHORITY OPERATIONS DIVISION 450 LAUREL STREET, SUITE 1200 BATON ROUGE, LOUISIANA 70801			
GIWW TO CLOVELLY HYDROLOGIC RESTORATION 2015 MAINTENANCE PROJECT		TITLE SHEET	
STATE PROJECT NUMBER: BA-02		DATE: JUNE 2015	
FEDERAL PROJECT NUMBER: BA-02		SHEET 1 OF 16	
APPROVED BY: JRS			

GENERAL NOTES

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM ON 1988 (NAVD 88). ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD 83).

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT PLAN AREA. CPRA OR ASSIGNED PROJECT REPRESENTATIVE SHALL MONITOR THE LOCATION DURING CONSTRUCTION.

3. THE CONTRACTOR SHALL NOT, AT ANY TIME, TREAD ON EXISTING MARSH OR VEGETATIVE WETLANDS UNLESS OTHERWISE DIRECTED BY THE CPRA PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE.

4. THE LOCATIONS OF UTILITIES, PIPELINES, AND STRUCTURES SHOWN HEREON HAVE BEEN DETERMINED FROM DATA PROVIDED BY OTHERS. THE ACTUAL LOCATIONS MAY VARY FROM THESE SHOWN AND IT IS POSSIBLE SOME MAY EXIST THAT HAVE NOT BEEN SHOWN. THE CONTRACTOR SHALL BE ON ALERT FOR SUCH UTILITIES, PIPELINES, AND STRUCTURES AND REPORT THEM IMMEDIATELY TO THE CPRA PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES, PIPELINES, AND STRUCTURES PRIOR TO COMMENCING ANY WORK.

5. PRIOR TO FLOATING EQUIPMENT BENEATH ELECTRICAL TRANSMISSION LINES, THE CONTRACTOR SHALL COORDINATE THE DE-ENERGIZING OF POWER LINES, FOR POWER LINES ADJACENT TO LIMITS OF WORK, CONTACT ENTERGY:

JIMMY SHOLAR

CELL: 504-615-5540

EMAIL: JSHOLAR@ENTERGY.COM

ENTERGY REQUIRES A MINIMUM 6 WEEK NOTICE TO SCHEDULE DE-ENERGIZING OF POWER LINES. ONCE THE CONTRACT IS AWARDED, THE CONTRACTOR SHALL SUBMIT A SCHEDULE SHOWING WHEN DE-ENERGIZING WILL BE REQUIRED AND CONTACT ENTERGY TO SCHEDULE THESE SERVICE INTERRUPTIONS. DE-ENERGIZING OF POWER LINES ARE FIRST COME, FIRST SERVED AND ARE DEPENDENT ON WEATHER, LOAD REQUIRED, AND OTHER WORK BEING SCHEDULED AND LINES IN THE AREA BEING OUT OF SERVICE. THE CONTRACTOR MAY BE REQUIRED TO ADJUST THE CONSTRUCTION SCHEDULE IF ENTERGY CANNOT GRANT THE REQUESTED SERVICE INTERRUPTIONS.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING PIPELINE OPERATORS 48 HOURS IN ADVANCE OF THE WORK. ALL PIPELINES SHALL BE MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION OR HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. THE CONTRACTOR SHALL NOT ANCHOR OR EXCAVATE WITHIN 50 FEET OF ANY PIPELINE. NOTICE: 48 HOURS BEFORE DREDGING CALL LOUISIANA ONE CALL AT 1-800-272-3020 TO LOCATE ANY OTHER PIPELINES OR UTILITIES.

PIPELINE COMPANIES MAY INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
STONE ENERGY CORPORATION - CONTACT SONNY CROSBY (989) 870-5001

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING FROM ACCESS WATER BODIES TO THE PROJECT AREA, DEPENDING ON THE CONTRACTOR'S ACCESS ROUTE TO THE PROJECT AREA. THERE MAY BE OTHER PIPELINES. THE CONTRACTOR SHALL CALL LOUISIANA ONE CALL TO LOCATE PIPELINES AND COORDINATE WITH THE PIPELINES FOR ACCESS.

8. VOLUMES SHOWN ARE FOR BIDDING PURPOSES ONLY AND WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED IN 2014. DREDGE CROSS-SECTIONS WILL BE SURVEYED BY THE CONTRACTOR BEFORE AND AFTER FOR BACKFILL VERIFICATION. ALL SURVEYING AND MEASUREMENTS BY THE CONTRACTOR FOR MEASUREMENT AND PAYMENT WILL BE MONITORED BY THE CPRA PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE. THE CPRA PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE SHALL REVIEW ALL BEFORE AND AFTER SURVEYS, MEASUREMENTS AND PAYMENT CALCULATIONS. IF A DISCREPANCY CANNOT BE RESOLVED, THE CONSTRUCTION MANAGER SHALL PERFORM A CROSS-SECTION SURVEY TO VERIFY THE CONTRACTORS WORK.
9. DREDGED MATERIAL SHALL BE PLACED IN AREAS SHOWN ON THE PLANS.
10. DREDGED MATERIAL SHALL NOT IMPEDE FLOW OF NATURAL WATERWAYS NOR BE STOCKPILED WHERE NATURAL WATERWAYS INTERSECT CREVASSES.
11. CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. ANY OBSERVED DISCREPANCIES BETWEEN PRE-CONSTRUCTION SURVEY AND THE PROJECT PLANS NEED TO BE DOCUMENTED AND PROVIDED TO CPRA PROJECT ENGINEER OR ASSIGNED PROJECT REPRESENTATIVE FOR ACCEPTANCE.
12. DISTURBANCE TO MARINE TRAFFIC NEEDS TO BE AVOIDED BY THE CONTRACTOR. NECESSARY WARNING SIGNS/TEMPORARY NAVIGATIONAL AIDS SHALL BE INSTALLED IN ACCORDANCE WITH USCG REGULATIONS. SEQUENCE OF CONSTRUCTION AND PLAN FOR MAINTAINING MARINE TRAFFIC THROUGH THE STRUCTURE SHALL BE SUBMITTED TO CPRA FOR APPROVAL.
13. EXISTING ELEVATIONS OF STRUCTURES AND NATURAL GROUND ARE BASED ON SURVEYS CONDUCTED IN 2014. IN AREAS WHERE SURVEY DATA WAS UNAVAILABLE, THE EXISTING CONDITIONS WERE EXTENDED AT THE SAME ELEVATION AS THE LAST MEASURED POINT. THE DRAWINGS INDICATE THE LOCATION OF 2014 AND EXTENDED DATA USED TO DEPICT EXISTING CONDITIONS.
14. THE SOUTH COASTAL WETLANDS (SLCW) SECONDARY GPS NETWORK MONUMENT, "BA02SM01 AND/OR BA02SM02, SHALL BE USED FOR HORIZONTAL AND VERTICAL CONTROL. THE DATA SHEET FOR THESE MONUMENTS CAN BE FOUND IN APPENDIX D OF THE SPECIFICATIONS.
15. MEAN HIGH WATER AND MEAN LOW WATER DATA BASED UPON 2009 MONITORING DATA PROVIDED BY CPRA.

ITEM No.	ITEM	UNIT	QUANTITY
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
2	CONSTRUCTION SURVEYS	LUMP SUM	1
3	ACCESS AND FLOATATION CHANNELS	LUMP SUM	1
4	130 LB RIPRAP	TONS	16750
5A	PERMANENT WARNING SIGNS	EACH	13
5B	PERMANENT WARNING SIGNS (SIGNS ONLY)	EACH	5
6	WOVEN GEOTEXTILE FABRIC	SQ YD	11000
7	DE-ENERGIZE POWER LINES	EACH	4

SUMMARY OF ESTIMATED QUANTITIES

BASE BID



REV.	DATE	DESCRIPTION



Stanley Consultants inc.

225 Iowa Avenue, Muscatine, Iowa 52761-3764

www.stanleyconsultants.com

COASTAL PROTECTION AND RESTORATION AUTHORITY
OPERATIONS DIVISION

430 LAUREL STREET, SUITE 1200
BATON ROUGE, LOUISIANA 70801

DRAWN BY: SRH

DESIGNED BY: SRH

GIWW TO CLOVELLY HYDROLOGIC RESTORATION 2015 MAINTENANCE PROJECT	STATE PROJECT NUMBER: BA-02
	FEDERAL PROJECT NUMBER: BA-02

GENERAL
NOTES &
QUANTITIES

DATE: JUNE 2015

SHEET 2 OF 16



SCALE: 1"= 800' (11" X 17")

IMAGE DATE: 11/14/2012

LEGEND			
	PROPOSED SHORELINE PROTECTION		
	PROPOSED EXCAVATION AREA		
	TEMPORARY SPOIL LOCATION		
	EXISTING MARSH EDGE		
	POWER LINES		
	SURVEYED POWER POLES		
	50 FT ENTERWAY POWER LINE RIGHT OF WAY		
	POTENTIAL ACCESS ROUTE (CONTRACTOR TO DETERMINE)		

Utility Disposition				
Item	Description	Northing	Easting	Disposition
PP 1	Wooden Poles (triple)	369083.35'	3631165.86'	Do Not Disturb
PP 2	Metal Pole	369703.60'	3631177.08'	Do Not Disturb
PP 3	Metal Pole	370198.75'	3631188.40'	Do Not Disturb
PP 4	Wooden Poles (double)	3631193.48'	370714.44'	Do Not Disturb

NOTES:

- ACCESS ROUTES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. ACCESS CHANNELS, OTHER THAN THOSE SHOWN ON THE PLANS MAY BE REQUIRED TO REACH LAKE RIM TO CONSTRUCT PROPOSED SHORELINE PROTECTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ACCESS CHANNEL REQUIREMENTS PRIOR TO SUBMITTING BID AND INCLUDE IN BID PRICE.
- PRIOR TO FLOATING EQUIPMENT BENEATH ELECTRICAL TRANSMISSION LINES, THE CONTRACTOR SHALL COORDINATE THE DE-ENERGIZING OF POWER LINES. FOR POWER LINES ADJACENT TO LIMITS OF WORK, CONTACT INTERGY:
JIMMY SHOLAR
CELL: 504-615-5540
EMAIL: JSHOLAR@INTERGY.COM
SEE NOTE 5 ON SHEET 2 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ON DE-ENERGIZING.
- SEE NOTE 4, 6 AND 7 ON SHEET 2.



REV.	DATE	DESCRIPTION	BY		



Stanley Consultants inc.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com









COASTAL PROTECTION AND RESTORATION AUTHORITY
OPERATIONS DIVISION

430 LAUREL STREET, SUITE 1200
BATON ROUGE, LOUISIANA 70801

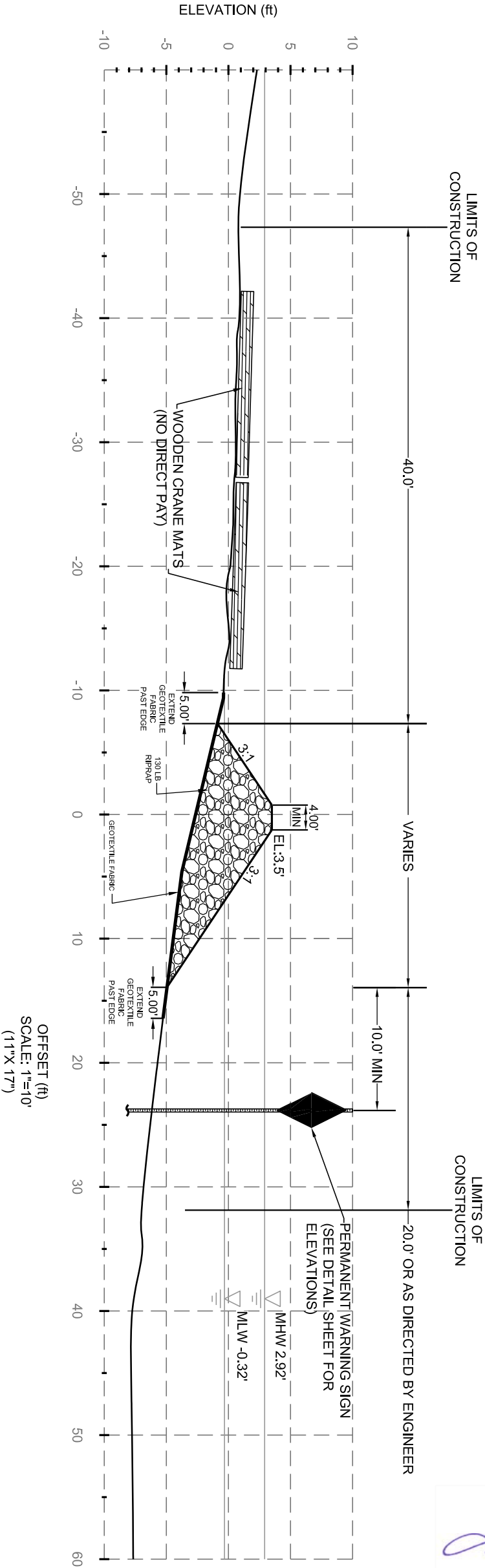
DRAWN BY: SRH

DESIGNED BY: SRH

GIWW TO CLOVELLY HYDROLOGIC RESTORATION 2015 MAINTENANCE PROJECT		SITE PLAN
STATE PROJECT NUMBER: BA-02		
FEDERAL PROJECT NUMBER: BA-02		
APPROVED BY: JRS		
DATE: JUNE 2015		
		SHEET 3 OF 16

LEGEND	
	WOODEN MATS
	PROPOSED ROCK DIKE
	PROPOSED ACCESS CHANNEL
	TEMPORARY SPOIL LOCATION
	WARNING SIGN
	EXISTING PROFILE
	GEOTEXTILE FABRIC
	MEAN HIGH/LOW WATER LEVEL

TYPICAL SECTION
ROCK DIKE SECTION:
STA 100+00 TO 106+01 AND
STA 200+00 TO 200+55











STATE OF LOUISIANA
JAMES R. SMITH
License No. 19893
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
18 June 15

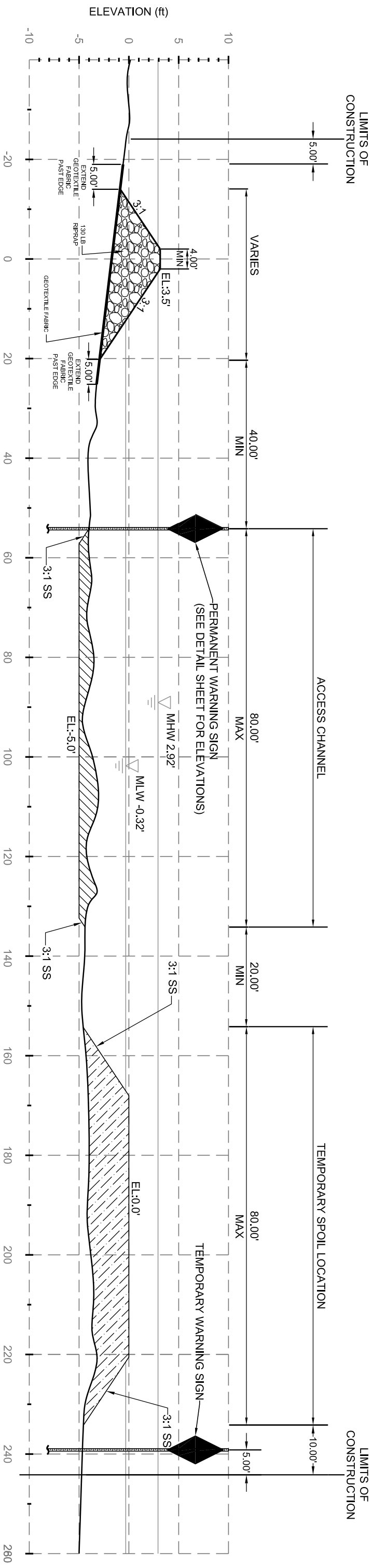
			COASTAL PROTECTION AND RESTORATION AUTHORITY OPERATIONS DIVISION 430 LAUREL STREET, SUITE 1200 BATON ROUGE, LOUISIANA 70801				TYPICAL SECTION ROCK DIKE: STA 100+00 TO 106+01 AND STA 200+00 TO 200+55	
			GIMW TO CLOVELLY HYDROLOGIC RESTORATION 2015 MAINTENANCE PROJECT				DATE: JUNE 2015	
			STATE PROJECT NUMBER: BA-02				SHEET 4 OF 16	
			FEDERAL PROJECT NUMBER: BA-02					
REV.	DATE	DESCRIPTION	BY	DRAWN BY: SRH	DESIGNED BY: SRH	APPROVED BY: JRS		



Stanley Consultants inc.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

	WOODEN MATS
	PROPOSED ROCK DIKE
	PROPOSED ACCESS CHANNEL
	TEMPORARY SPOIL LOCATION
	WARNING SIGN
	EXISTING PROFILE
	GEOTEXTILE FABRIC
	MEAN HIGH/LOW WATER LEVEL

TYPICAL SECTION
ROCK DIKE:
STA 106+01 TO 117+31

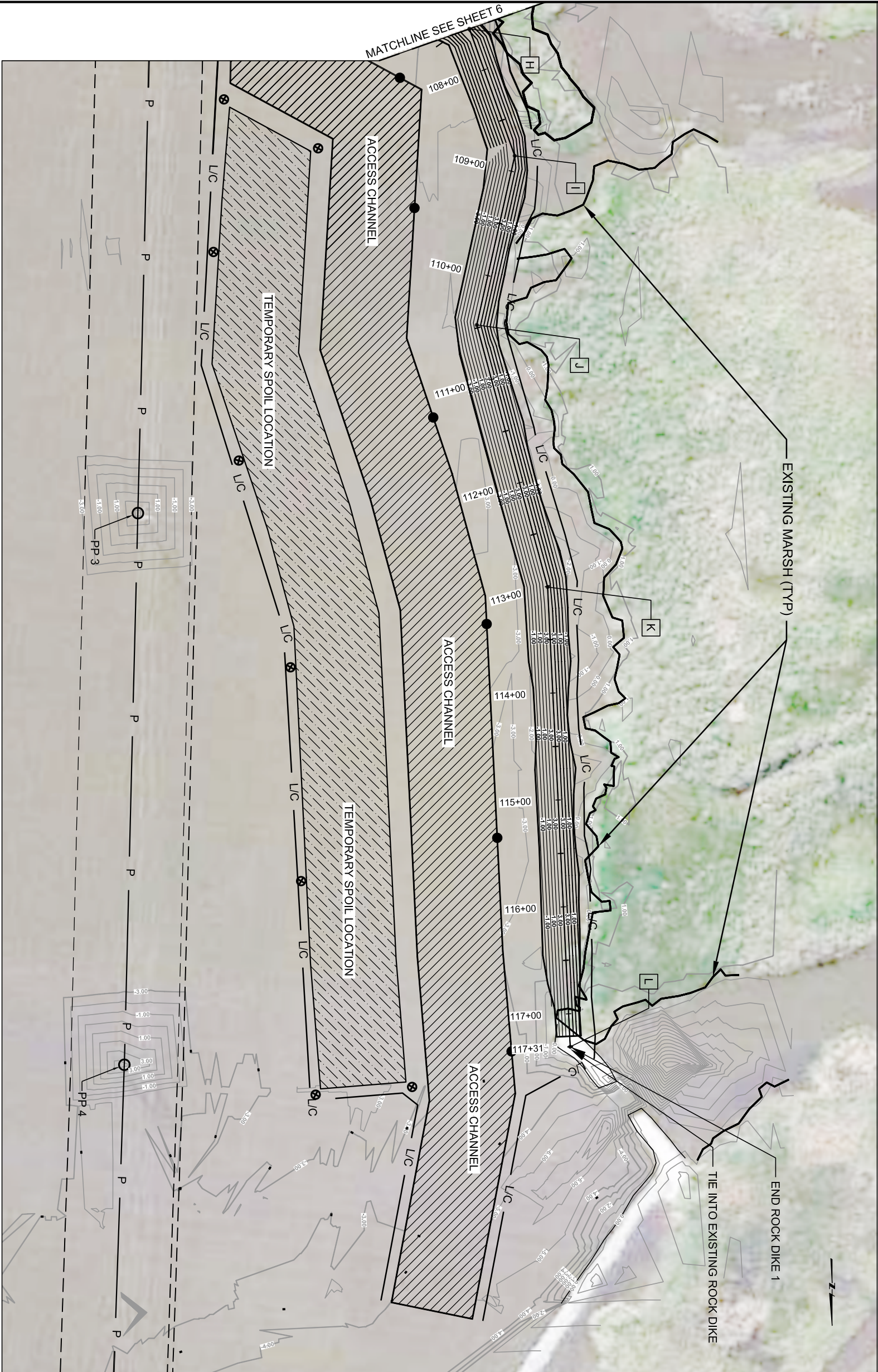


OFFSET (ft)
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'
(11"X 17")

NOTES:

1. CONTRACTOR SHALL INSTALL PERMANENT WARNING SIGNS ADJACENT TO SHORE UPON ROCK DIKES COMPLETION. THE SIGNS SHOULD BE INSTALLED 40 FEET FROM THE TOE OF THE ROCK DIKE ALONG 200 FOOT INTERVALS. THE TEMPORARY WARNING SIGNS MAY BE REUSED FOR THIS PURPOSE IF FOUND TO BE IN ACCEPTABLE ORDER BY THE OWNER.

[illegible]



LEGEND			
	EXISTING MARSH BANK		
	EXISTING SURFACE CONTOURS		
	ROCK DIKE CONTOURS		
	ROCK DIKE ALIGNMENT		
	SECTION LINES		
	POWER LINES		
	SURVEYED POWER POLE		
	50 FT. ENTERGY POWER LINE RIGHT OF WAY		
	LIMITS OF CONSTRUCTION		
	PERMANENT WARNING SIGNS		
	TEMPORARY WARNING SIGNS		
	PROPOSED ACCESS CHANNEL		
	TEMPORARY SPOIL LOCATION		
	WOODEN CRANE MATS (NO DIRECT PAY)		

ROCK DIKE 1 POINT TABLE (CON'T)			
POINT	STATION	NORTHING	EASTING
H	107+59.29	369745.49	3630871.41
I	108+85.28	369864.16	3630829.09
J	110+47.22	370022.17	3630864.54
K	113+00.81	370266.97	3630798.35
L	117+30.85	370696.50	3630777.23

SCALE: 1"= 100' (11"X 17")



NOTES:

- THE END COORDINATES OF THE PROPOSED ROCK DIKES ARE APPROXIMATE. THE ACTUAL ENDS MAY BE ADJUSTED IN FIELD TO COMPLETELY PROTECT THE SHORE LINE.
- LOCATIONS OF PERMANENT WARNING SIGNS MAY BE ADJUSTED IN THE FIELD BY ENGINEER.

REV.	DATE	DESCRIPTION	BY	



Stanley Consultants inc.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

COASTAL PROTECTION AND RESTORATION AUTHORITY
OPERATIONS DIVISION
450 LAUREL STREET, SUITE 1200
BATON ROUGE, LOUISIANA 70801





DRAWN BY: SRH
DESIGNED BY: SRH

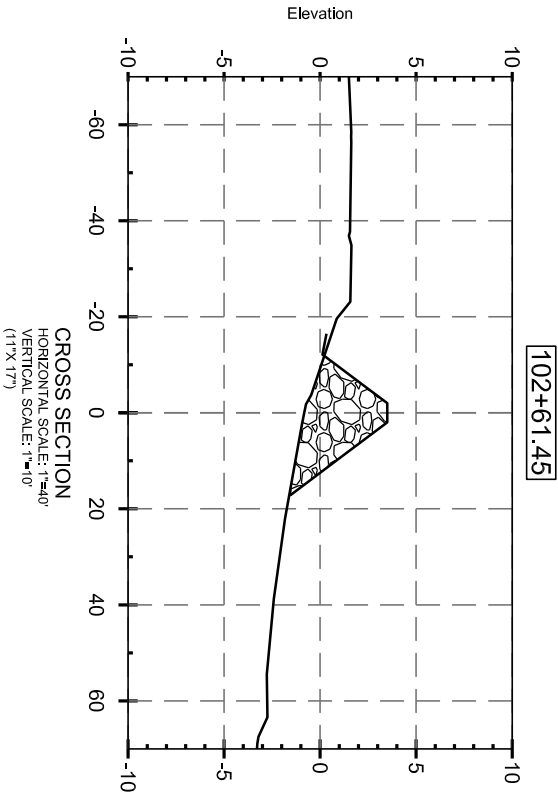
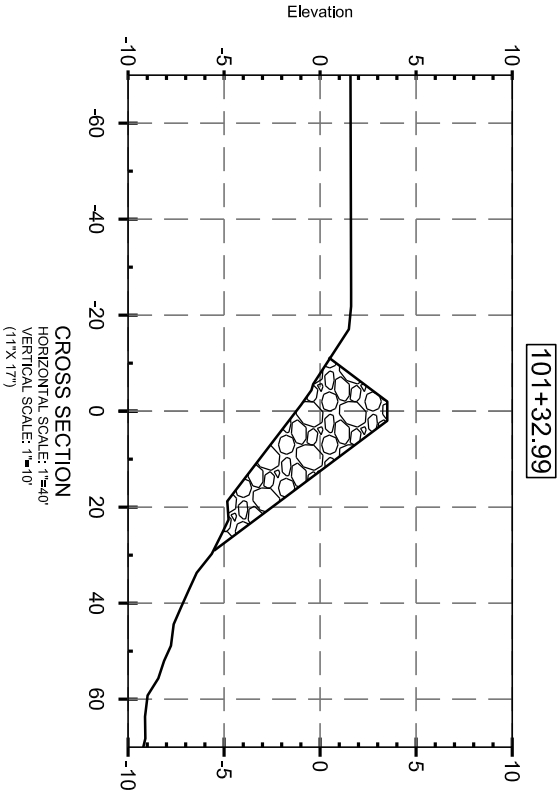
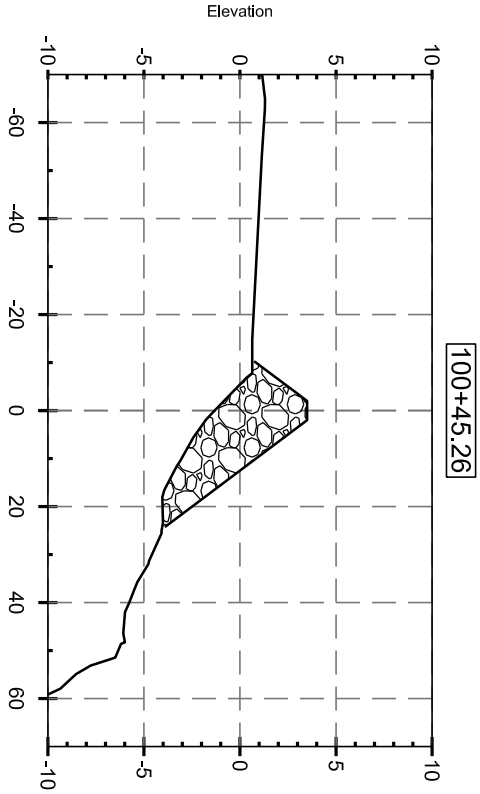
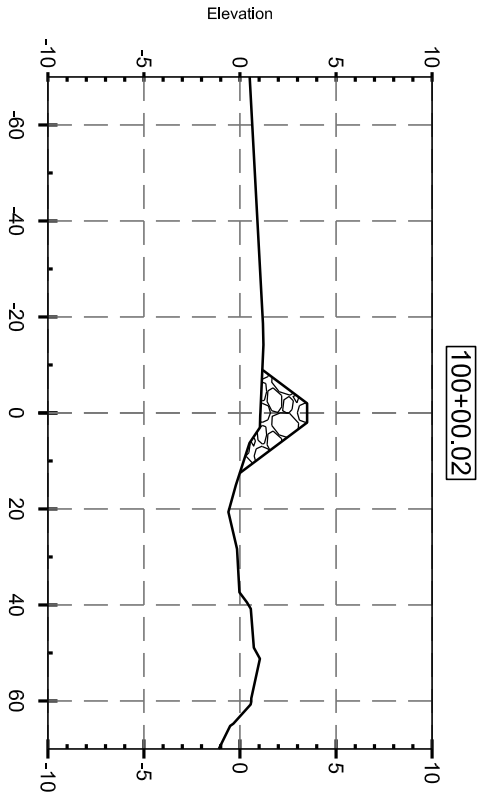
GIWW TO CLOVELLY HYDROLOGIC RESTORATION 2015 MAINTENANCE PROJECT	
STATE PROJECT NUMBER: BA-02	
FEDERAL PROJECT NUMBER: BA-02	

PLAN VIEW
STA 107+00 to 117+31

DATE: JUNE 2015

SHEET 7 OF 16

LEGEND	
	EXISTING PROFILE
	PROPOSED ROCK DIKE
	PROPOSED EXCAVATION AREA
	TEMPORARY SPOIL LOCATION



REV.	DATE		DESCRIPTION		BY







Stanley Consultants Inc.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

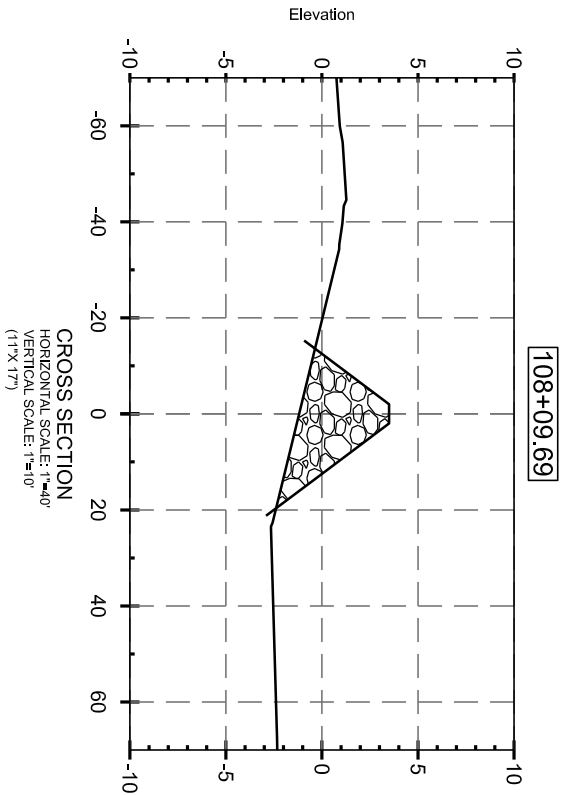
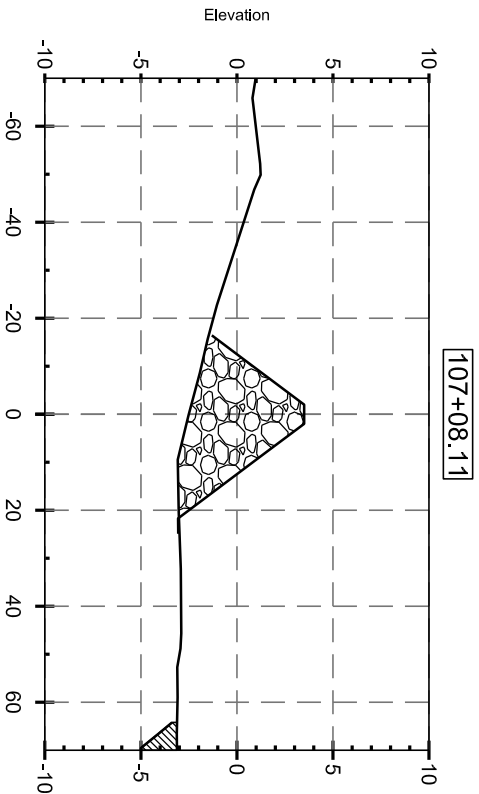
COASTAL PROTECTION AND RESTORATION AUTHORITY OPERATIONS DIVISION	
450 LAUREL STREET, SUITE 1200 BATON ROUGE, LOUISIANA 70801	
DRAWN BY: SRH	DESIGNED BY: SRH

GIWW TO CLOVELLY HYDROLOGIC RESTORATION 2015 MAINTENANCE PROJECT	
STATE PROJECT NUMBER: BA-02	
FEDERAL PROJECT NUMBER: BA-02	
APPROVED BY: JRS	

CROSS SECTIONS	
DATE: JUNE 2015	
SHEET 8 OF 16	



LEGEND	
	EXISTING PROFILE
	PROPOSED ROCK DIKE
	PROPOSED EXCAVATION AREA
	TEMPORARY SPOIL LOCATION



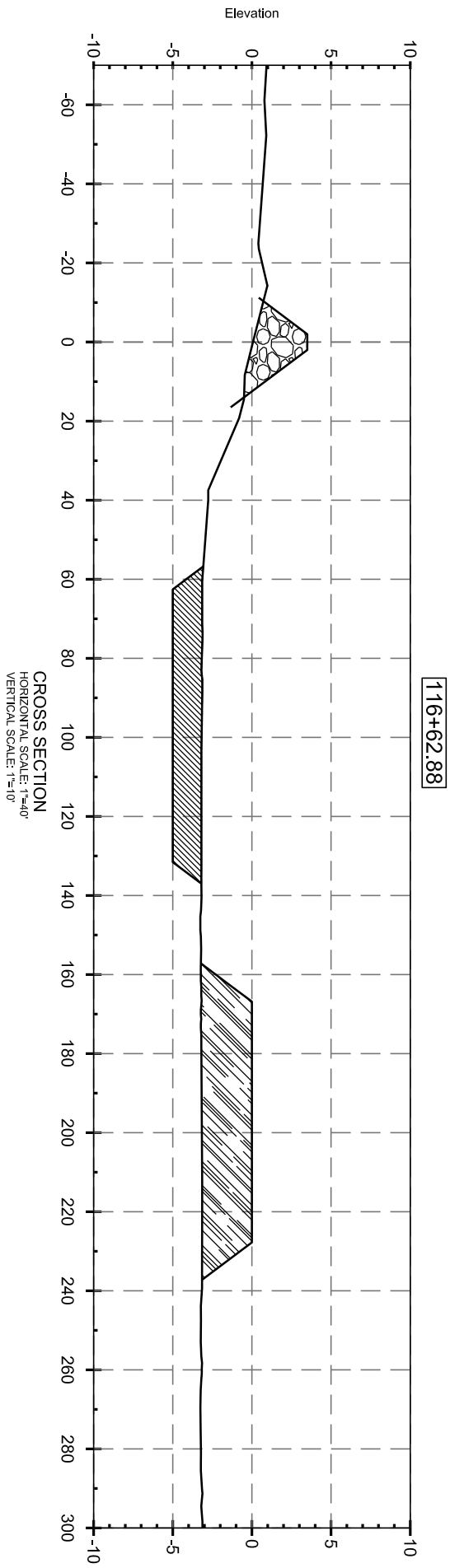
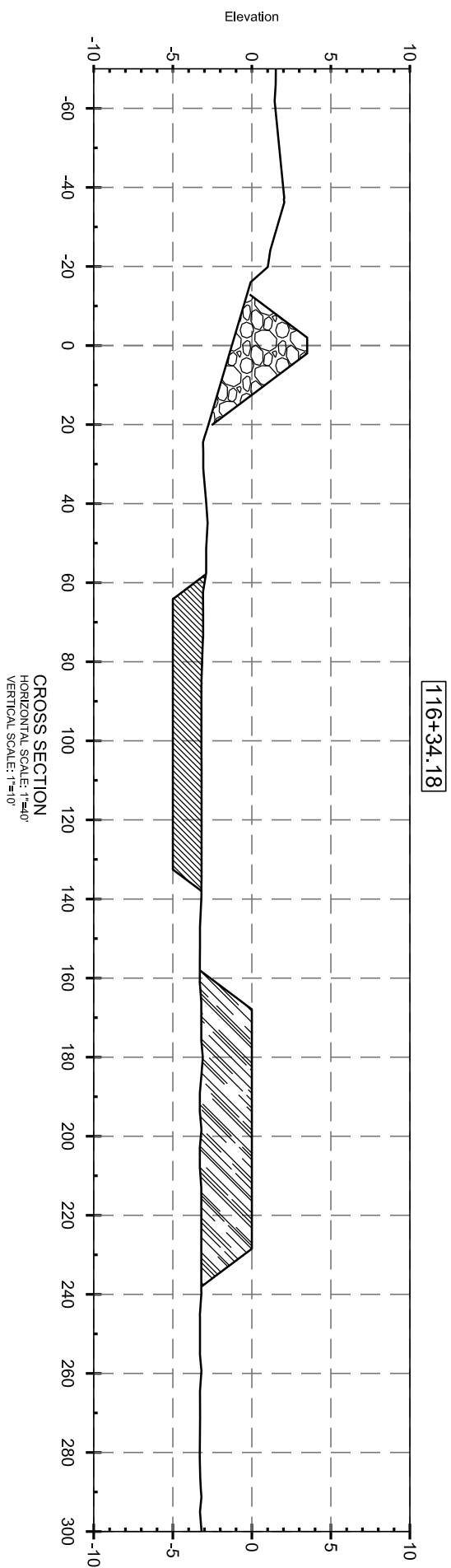
REV.	DATE	DESCRIPTION



Stanley Consultants inc.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

COASTAL PROTECTION AND RESTORATION AUTHORITY OPERATIONS DIVISION 430 LAUREL STREET, SUITE 1200 BATON ROUGE, LOUISIANA 70801		DRAWN BY: SRH		DESIGNED BY: SRH		GIMW TO CLOVELLY HYDROLOGIC RESTORATION 2015 MAINTENANCE PROJECT		STATE PROJECT NUMBER: BA-02		DATE: JUNE 2015	
						FEDERAL PROJECT NUMBER: BA-02		APPROVED BY: JRS		SHEET 10 OF 16	

LEGEND	
	EXISTING PROFILE
	PROPOSED ROCK DIKE
	PROPOSED EXCAVATION AREA
	TEMPORARY SPOIL LOCATION

[illegible]

LEGEND

EXISTING PROFILE

PROPOSED ROCK DIKE

PROPOSED EXCAVATION AREA

TEMPORARY SPOIL LOCATION

200+00.00

CROSS SECTION
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'
(11"x 17")

200+19.56

CROSS SECTION
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'
(11"x 17")

200+39.84

CROSS SECTION
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=10'
(11"x 17")

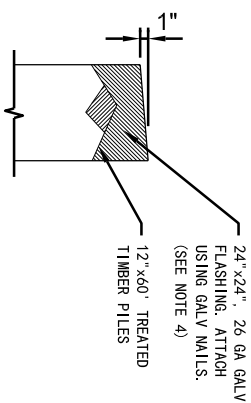
200+54.79

CROSS SECTION
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VERTICAL SCALE: 1"=10'
(11"x 17")

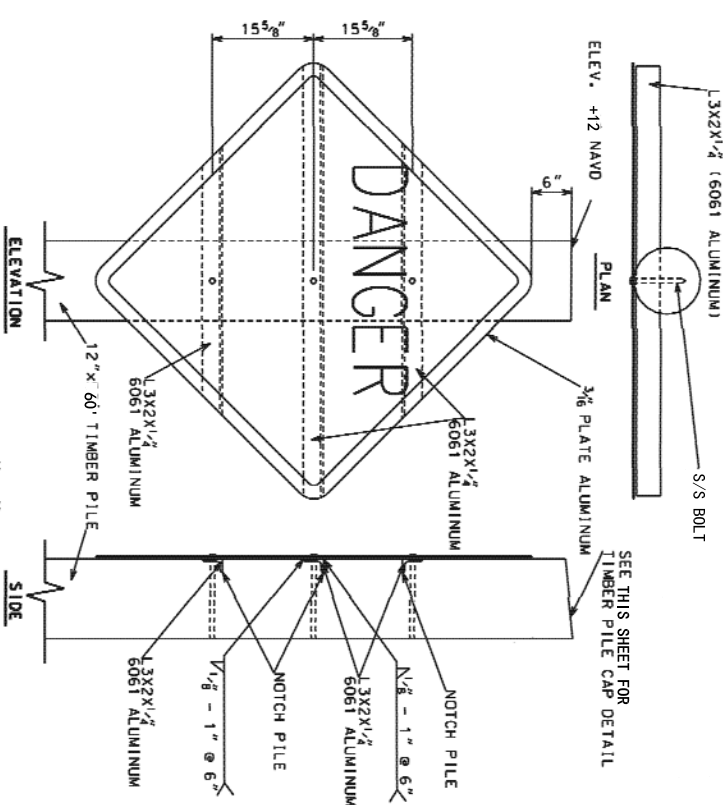
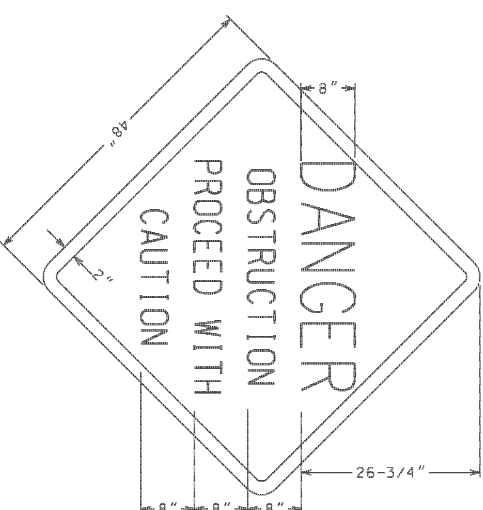
REV.	DATE		DESCRIPTION		BY

225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

COASTAL PROTECTION AND RESTORATION AUTHORITY OPERATIONS DIVISION			CROSS SECTIONS	
450 LAUREL STREET, SUITE 1200 BATON ROUGE, LOUISIANA 70801			STATE PROJECT NUMBER: BA-02	DATE: JUNE 2015
DRAWN BY: SRH			FEDERAL PROJECT NUMBER: BA-02	
DESIGNED BY: SRH			APPROVED BY: JRS	SHEET 15 OF 16



- NOTES:**
1. CONTRACTOR TO REMOVE AND PROPERLY DISPOSE OF SUBSTRUCTURES FOLLOWING APPLICABLE LAWS.
 2. ALL 3/4" DIAMETER ALL-THREAD TIE RODS SHALL BE SECURED BY NOTCHED IN PLACE GORE WASHERS AND TACK WELDED NUTS.
 3. GALVANIZED WOOD PILE CAPS SHALL BE INSTALLED ON EACH PILE AT STRUCTURE .
 4. THE TOP OF THE PILES SHALL BE COATED WITH COAL TAR EPOXY PAINT PRIOR TO PILING CAP.



- NOTES:
1. THE 2" BORDER ON THE TYPE "B" WARNING SIGN SHALL BE A RETRO-REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD SHALL BE A RETRO-REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS SHALL BE BLACK. WARNING SIGNS SHALL BE PLACED ONLY ON THE SIDE FACING THE BAY.
 2. NEOPRENE OR TEFLON WASHERS SHALL BE PLACED BETWEEN STEEL ANGLE AND ALUMINUM SIGNS.

[illegible]

BOBBY JINDAL
GOVERNOR



STEPHEN CHUSTZ
SECRETARY

State of Louisiana
DEPARTMENT OF NATURAL RESOURCES
OFFICE OF COASTAL MANAGEMENT

October 27, 2015

Brian Babin, Agent for NRCS
Coastal Protection and Restoration Authority
1440 Tiger Drive, Suite B
Thibodaux, LA 70301

RE: **C19960223 mod 09**, Coastal Zone Consistency
Natural Resources Conservation Service
Direct Federal Action
Modification of GIWW to Clovelly Hydrologic Restoration Project CWPPRA (BA-02) –
change depth of temporary access channel for rock dike construction from 5' to 6'.
Lafourche Parish, Louisiana

Dear Mr. Babin:

The above referenced project has been reviewed for consistency with the approved Louisiana Coastal Resource Program (LCRP) as required by Section 307 (c)(1)(A) of the Coastal Zone Management Act of 1972, as amended. The project, as proposed in the application, is consistent with the LCRP. If you have any questions concerning this determination please contact Jim Bondy of the Consistency Section at (225) 342-3870 or 1-800-267-4019.

Sincerely,

/S/ Don Haydel

Acting Administrator
Interagency Affairs/Field Services Division

DH/SK/jab

cc: John Herman, COE-NOD
Dave Butler, LDWF
Kirk Kilgen, OCM FI
Amanda Voisin, Lafourche Parish
James Smith, Stanley Consultants, Inc.
Brian Buchert, Stanley Consultants, Inc.

ATTACHMENT B
NOTICE OF AWARD



State of Louisiana

JOHN BEL EDWARDS
GOVERNOR

April 18, 2016

DQSI, LLC
19218 North 5th Street
Covington LA 70433

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
7010 0290 00 02 9193 8942

RE: **GIWW to Clovelly – 2015 Maintenance Project (BA-02)**

Gentlemen:

Congratulations on being the successful bidder on the referenced project. We appreciate your bidding on this state job, and we look forward to working with you in the successful execution and completion of this project. In order to expeditiously execute this construction contract, please find enclosed, for your completion, seven (7) copies of the Construction Contract for the referenced project in the amount of **\$1,457,850.16**. You should sign all copies and have your signature witnessed by two (2) witnesses. **Please do not date this contract. If you put a date on this contract, we will send the contract back to be signed again.**

Please return **all seven (7)** completed documents to this office along with the items listed below within fifteen (15) days after receipt. It is imperative that we receive this information as soon as possible but no later than fifteen (15) days after receipt of this communication.

1. Certificates of Insurance, as per specifications
 - a. General Liability, with additional insured and waiver of subrogation
 - b. Workers Compensation with waiver of subrogation
 - c. Automobile and Watercraft (if applicable)

Executive Division

Post Office Box 44027 • Baton Rouge, Louisiana 70804-4027 • 450 Laurel Street • 15th Floor Chase Tower North • Baton Rouge, Louisiana 70801
(225) 342-7308 • Fax (225) 342-4674 • <http://www.coastal.la.gov>
An Equal Opportunity Employer

April 18, 2016
Page 2

2. Disclosure of Ownership (LLCs are exempt from this requirement) & Corporate Resolution
3. Vendor Request Form with W-9 form & Vendor Location Form
4. Signed and Notarized Non-Collusion Affidavit
5. Surety should complete the Performance and Payment Bond section of the contract and attach the necessary Power of Attorney. (Surety signature must be witnessed by 2 witnesses)

This contract is not valid until fully executed by the State of Louisiana, Coastal Protection and Restoration Authority.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dean Andrus', written over a horizontal line.

Dean Andrus
Coastal Resources Program Specialist

Attachments

c: CPRA Project Files

ATTACHMENT C

NOTICE TO PROCEED/CONSTRUCTION CONTRACT



State of Louisiana

JOHN BEL EDWARDS
GOVERNOR

June 2, 2016

NOTICE TO PROCEED

Shelly Stubbs, President & CEO
DQSI, LLC
19218 North 5th Street
Covington LA 70433

RE: **GIWW to Clovelly Hydrologic Restoration 2015 Maintenance Project
(BA-02)
Amount of Contract: \$1,457,850.16**

Dear Ms. Stubbs

You are hereby notified to commence work on the referenced contract on or before **June 2, 2016**, and are to fully complete the work within **One-Hundred-Twenty (120)** consecutive calendar days thereafter. Your contract completion date is therefore **September 30, 2016**.

The contract provides for assessment of the sum of **\$1,500.00** per day as liquidated damages for each consecutive calendar day after the above established contract completion date that the work remains incomplete.

Once you have obtained your Certificate of Recordation, please submit it to our office. No invoice payments will be processed without this document.

If there are any questions, in regards to this project, please contact Dean Andrus at 225-342-7295.

Sincerely,

Dean Andrus

Attachments

CC: Project Support File
Project Manager

Executive Division

CONTRACT BETWEEN OWNER AND CONTRACTOR
AND PERFORMANCE AND PAYMENT BOND

This agreement entered into this 9 day of May, 2016, by DQSL LLC, hereinafter called the "Contractor", whose business address is 19218 North 5th Street, Covington, LA 70433, and the State of Louisiana Coastal Protection and Restoration Authority, herein represented by its Executive Director executing this contract, and hereinafter called the "Owner".

Witnesseth that the Contractor and the Owner, in consideration of premises and the mutual covenants; consideration and agreement herein contained, agree as follows:

Statement of Work: The contractor shall furnish all labor and materials and perform all of the work required to build, construct and complete in a thorough and workmanlike manner:

Project No. BA-02
Project Name: GIWW to Clovelly Hydrologic Restoration 2015 Maintenance

in strict accordance with Contract Documents prepared by Owner.

It is recognized by the parties herein that said Contract Documents, including by way of example and not of limitation, the Plans, all Specifications (including General Provisions, Special Provisions, and Technical Specifications), any Addenda thereto, Instructions To Bidders, this Contract, Advertisement For Bids, Affidavit, Bid Form, Bonds (Bid, Performance, and Payment), any and all Submitted Post-Bid Documentation, Notice of Award, Notice to Proceed, Change Orders, Field Orders, and Claims, if any, impose duties and obligations upon the parties herein, and said parties thereby agree that they shall be bound by said duties and obligations. For these purposes, all of the provisions contained in the aforementioned Contract Documents are incorporated herein by reference with the same force and effect as though said Contract Documents were herein set out in full.

Time for Completion: The work shall be commenced on a date to be specified in a written order of the Owner and shall be completed within 120 consecutive calendar days from and after the said date.

Liquidated Damages: Contractor shall be assessed Liquidated Damages in the amount of \$1,500.00 per day for each consecutive calendar day which work is not complete beginning with the first day beyond the completion time.

Compensation to be paid to the Contractor: The Owner will pay and the Contractor will accept in full consideration for the performance of the contract the sum of One-Million-Four-Hundred-Fifty-Seven-Thousand-Eight-Hundred-Fifty-Dollars-and-Sixteen-Cents (\$1,457,850.16) which sum represents the Contract Price.

Performance and Payment Bond: To these presents personally came and intervened Druml Group, Inc., herein acting for Allied World Specialty Insurance Company, a corporation organized and existing under the laws of the State of Delaware, and duly authorized to transact business in the State of Louisiana, as surety, who declared that having taken cognizance of this contract and of the Construction Documents mentioned herein, he hereby in his capacity as its Attorney in Fact obligates his said company, as Surety for the said Contractor, unto the said Owner, up to the sum of One-Million-Four-Hundred-Fifty-Seven-Thousand-Eight-Hundred-Fifty-Dollars-and-Sixteen-Cents (\$1,457,850.16). By issuance of this bond, the surety acknowledges they are in compliance with R.S. 38:2219.

The condition of this performance and payment bond shall be that should the Contractor herein not perform the contract in accordance with the terms and conditions hereof, or should said Contractor not fully indemnify and save harmless the Owner, from all cost and damages which he may suffer by said Contractor's non-performance or should said Contractor not pay all persons who have and fulfill obligations to perform labor and/or furnish materials in the prosecution of the work provided for herein, including by way of example workmen, laborers, mechanics, and furnishers of materials, machinery, equipment and fixtures, then said Surety agrees and is bound to so perform the contract and make said

payment(s).

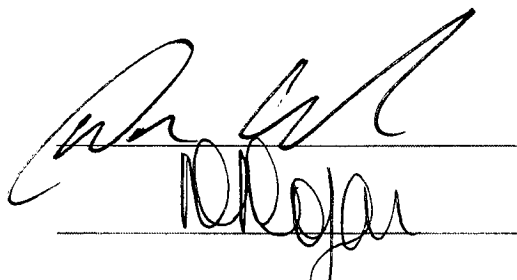
Provided, that any alterations which may be made in the terms of the contract or in the work to be done under it, or the giving by the Owner of any extensions of time for the performance of the contract, or any other forbearance on the part of either the Owner or the Contractor to the other shall not in any way release the Contractor or the Surety from their liability hereunder, notice to the Surety of any such alterations, extensions or other forbearance being hereby waived.

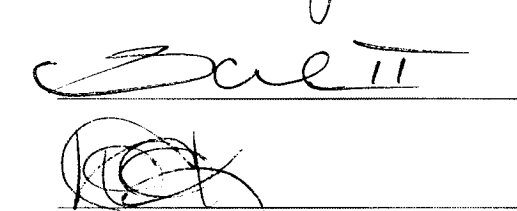
The Contractor agrees to abide by the requirements of the following as applicable: Title VI and VII of the Civil Rights Act of 1964, as amended by the Equal Opportunity Act of 1972, Federal Executive Order 11246, the Federal Rehabilitation Act of 1973, as amended, the Vietnam Era Veteran's Readjustment Assistance Act of 1974, Title IX of the Education Amendments of 1972, the Age Act of 1972, and contractor agrees to abide by the requirements of the Americans with Disabilities Act of 1990.

Contractor agrees not to discriminate in its employment practices, and will render services under this contract without regard to race, color, sex, religion, national origin, age, or disabilities. Any act of discrimination committed by Contractor or failure to comply with these statutory obligations when applicable shall be grounds for termination of this contract.

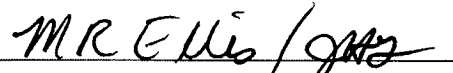
In Witness whereof, the parties hereto on the day and year first above written have executed this agreement in SEVEN (7) counterparts, each of which shall, without proof or accountancy for the other counterparts, be deemed an original thereof.

WITNESSES:



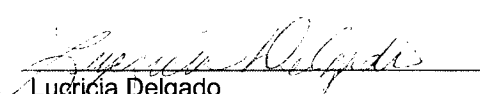


STATE OF LOUISIANA
COASTAL PROTECTION AND
RESTORATION AUTHORITY

BY: 
Michael R. Ellis, Executive Director

DQSI, LLC

BY: 


Lucricia Delgado


Anita McKague

SURETY: Allied World Sepecialty Insurance Company

BY: 
ATTORNEY IN FACT David Druml

April 29, 2016

30 S. 17th Street, Suite 1600
Philadelphia, PA 19103

ADDRESS

(650) 274-0194

TELEPHONE NUMBER

STATE OF LOUISIANA
PARISH OF St. TAMMANY

PROJECT NO.: BA-05
NAME: GIWW to Clovelly Hydrologic Restoration 2015
Maintenance
LOCATION: LaFourche Parish, Louisiana

A F F I D A V I T

Before me, the undersigned authority, duly commissioned and qualified within and for the State and Parish aforesaid, personally came and appeared SHELLY STUBBS representing DQSI, LLC who, being by me first duly sworn deposed and said that he has read this affidavit and does hereby agree under oath to comply with all provisions herein as follows:

PART I.

Section 2224 of Part II of Chapter 10 of Title 38 of the Louisiana Revised Statutes, as amended.

(1) That affiant employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for affiant; and

(2) That no part of the Contract price received by affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the Contract, other than the payment of their normal compensation to persons regularly employed by the affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for affiant.

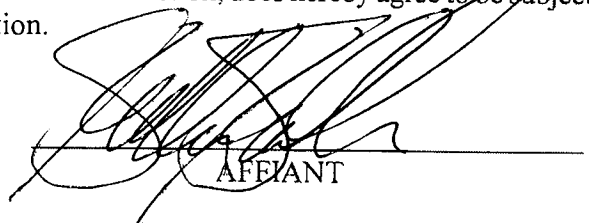
PART II.

Section 2190 of Part I of Chapter 10 of Title 38 of the Louisiana Revised Statutes, as amended.

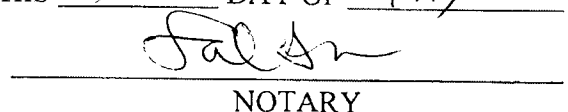
That affiant, if an architect or engineer, or representative thereof, does not own a substantial financial interest, either directly or indirectly, in any corporation, firm, partnership, or other organization which supplies materials for the construction of a public work when the architect or engineer has performed architectural or engineering services, either directly or indirectly, in connection with the public work for which the materials are being supplied.

For the purposes of this Section, a "substantial financial interest" shall exclude any interest in stock being traded on the American Stock Exchange or the New York Stock Exchange.

That affiant, if subject to the provisions of this section, does hereby agree to be subject to the penalties involved for the violation of this section.


AFFIANT

SWORN TO AND SUBSCRIBED BEFORE ME THIS 3RD DAY OF MAY, 2016.


NOTARY

Salvadore A. Mortillaro
Notary Public For Life
Parish of St. Tammany
Louisiana
Notary I.D. # 51701



Allied World Specialty Insurance Company
30 S. 17th St, Suite 1600
Philadelphia, PA 19103
USA

POWER OF ATTORNEY

Issue Date: April 14, 2016

No. 28650-AS1758

Single Transaction Limit: \$5,000,000

KNOW ALL MEN BY THESE PRESENTS:

Allied World Specialty Insurance Company, a Delaware corporation (the "Company") does hereby appoint

NAME(s):

David Mahler

David Druml

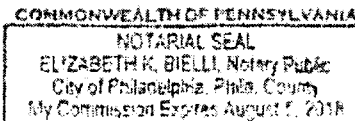
FIRM:


Druml Group, Inc. 1135 Farragut Boulevard Foster City, CA 94404

Its true and lawful Attorney(s)-in-Fact, with full authority to execute on its behalf bonds, undertakings, recognizances and other contracts of indemnity and writings obligatory in the nature thereof, issued in the course of its business, and to bind the Company thereby. This Power of Attorney shall remain in full force and effect for one year from the issued date above-referenced and shall expire on close of business of the first anniversary of such Issue Date.

IN WITNESS WHEREOF, ALLIED WORLD SPECIALTY INSURANCE COMPANY has caused these presents to be executed by the officer named below, who is duly authorized and empowered to execute on the Company's behalf.

This 14th day of April, 2016




Title: Senior Vice President - Surety

State of Pennsylvania)
County of Philadelphia)ss.

On this 14th day of April, 2016, before me came the above-named officer of ALLIED WORLD SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described herein, and acknowledged that he executed the foregoing instrument and affixed the seals of said corporation thereto by authority of his office.



Notary
My Commission Expires: 08/05/2018

CERTIFICATE

Excerpt of Resolution adopted by the Board of Directors of the ALLIED WORLD SPECIALTY INSURANCE COMPANY (formerly known as *Darwin National Assurance Company*), on December, 2012:

"RESOLVED, that the President, or any Vice President be, and hereby is, authorized to appoint Attorneys-in-Fact to represent and act for and on behalf of the Company to execute bonds, undertakings, recognizances and other contracts of indemnity and writings obligatory in the nature thereof, and to attach thereto the corporate seal of the Company, in the transaction of its surety business;

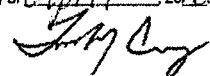
"RESOLVED, that the signatures and attestations of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company when so affixed with respect to any bond, undertaking, recognizance or other contract of indemnity or writing obligatory in the nature thereof;

"RESOLVED, that the facsimile or mechanically reproduced signature of the Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a copy of any Power of Attorney of the Company, with signatures affixed as next above noted, shall be valid and binding upon the Company with the same force and effect as though manually affixed."

"RESOLVED, that any such Attorney-in-Fact delivering a secretarial certification that the foregoing resolutions still be in effect may insert in such certification the date thereof, said date to be not later than the date of delivery thereof by such Attorney-in-Fact."

I, TIMOTHY J. CURRY, Secretary of the ALLIED WORLD SPECIALTY INSURANCE COMPANY, do hereby certify that the foregoing excerpts of Resolution adopted by the Board of Directors of this corporation, and the Power of Attorney issued pursuant thereto, are true and correct, and that both the Resolution and the Power of Attorney are in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the facsimile seal of the corporation, this 24th day of April, 2016.



Timothy J. Curry, Secretary

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

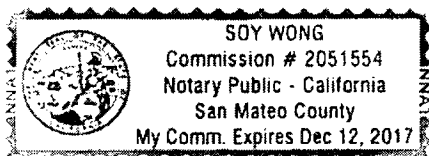
State of California)

County of San Mateo)On April 29, 2016 before me, Soy Wong, Notary Public,
Date Here Insert Name and Title of the Officerpersonally appeared David F. Druml
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature]
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

☐ Corporate Officer — Title(s): _____☐ Partner — ☐ Limited ☐ General☐ Individual ☐ Attorney in Fact☐ Trustee ☐ Guardian or Conservator☐ Other: _____

Signer Is Representing: _____

Signer's Name: _____

☐ Corporate Officer — Title(s): _____☐ Partner — ☐ Limited ☐ General☐ Individual ☐ Attorney in Fact☐ Trustee ☐ Guardian or Conservator☐ Other: _____

Signer Is Representing: _____

ATTACHMENT D
PRE-CONSTRUCTION CONFERENCE REPORT

PRE-CONSTRUCTION CONFERENCE REPORT

STATE PROJECT: BA-02

NAME: GIWW to Clovelly – 2016 Maintenance Project

DATE: 6/14/2016

1. INTRODUCTION

- A. All parties in attendance were introduced. The attendance sheet is attached to this project.
- B. The scope of the project was briefly reviewed.
- C. Contact Personnel for the project:

2. **FEDERAL AGENCY** Natural Resource Conservation Service

	<u>NAME</u>	<u>PHONE #</u>	<u>EMERGENCY #</u>
PROJECT MANAGER	<u>N/A</u>	<u></u>	<u></u>

3. **STATE AGENCY** Coastal Protection and Restoration Authority (CPRA)

	<u>NAME</u>	<u>PHONE #</u>	<u>EMERGENCY #</u>
CONSTRUCTION MANAGER	<u>Brian Babin</u>	<u>(985) 447-0956</u>	<u>(985)414-0883</u>
ENGINEER MANAGER	<u></u>	<u></u>	<u></u>

4. **PROJECT REP.** Stanley Consultants

	<u>NAME</u>	<u>PHONE #</u>	<u>EMERGENCY #</u>
PROJECT MANAGER	<u>Jim Smith</u>	<u>(225) 387-242</u>	<u>(225) 938-1191</u>
CONST. ADMIN.	<u></u>	<u></u>	<u></u>
PROJECT REP.	<u></u>	<u></u>	<u></u>
PROJECT REP.	<u></u>	<u></u>	<u></u>

5. **LANDOWNER** Little Lake Land Company

	<u>NAME</u>	<u>PHONE #</u>	<u>EMERGENCY #</u>
LAND MANAGER	<u>Randy Moertle</u>	<u></u>	<u>(985) 856-3630</u>

6. **CONTRACTOR** DQSI, LLC.

	<u>NAME</u>	<u>PHONE #</u>	<u>EMERGENCY #</u>
PROJECT MANAGER	<u>Stanley Lee</u>	<u></u>	<u>(813) 961-0751</u>
PROJECT SUPERINT.	<u>Martin Klein</u>	<u></u>	<u>(504) 458-8631</u>
OTHER	<u>Darryl Deviller</u>	<u></u>	<u>(985) 960-0447</u>

7. **CONSTRUCTION AGREEMENT**

A. Executed and Recorded	<u>X</u>	Yes	<u></u>	No
B. Copies Distributed	<u>X</u>	Yes	<u></u>	No
C. Payment and Performance Bonds	<u>X</u>	Yes	<u></u>	No

Remarks:

8. **SUBCONTRACTORS -** X Applicable to this project Not Applicable to this project

A. Subcontractors List Received	<u></u>	Yes	<u></u>	No
B. List Approved	<u></u>	Yes	<u></u>	No
C. MBE's Approved	<u></u>	Yes	<u></u>	No
D. Contracts Received	<u></u>	Yes	<u></u>	No

Remarks: Surveyor – Brett Fitzgerald, PLS. (225) 276-8761
Pile Driver Subcontractor - TBD

9. **PAYROLLS AND LABOR STANDARDS -** Applicable to this project X Not Applicable to this project

A. Certifications Reviewed	<u></u>	Yes	<u></u>	No
B. Wage Rates and Rosters Distributed	<u></u>	Yes	<u></u>	No
C. Payrolls to be submitted to:	<u></u>			

	Name			
D. Will job interviews be required	<u></u>	Yes	<u></u>	No

Remarks:

10. PROGRESS SCHEDULES

- A. Time to complete project 120 days
- B. Amount of liquidated damages \$1,500
- C. Bar Chart Received X Yes No
- D. CPM Received Yes No
- If not received C and/or D will be submitted by: _____
- E. Does Contractor expect any unavoidable delays
in completing the project on time? X Yes No
- If yes, explain: In order to access the project site, the utilities (Entergy) will have to de-energize the overhead power lines. The earliest Entergy will be able to cut power to will be end of August depending on duration of summer.

Remarks: DQSI, LLC has submitted a request for a time extension for this period

11. SHOP DRAWINGS, SUBMITTAL, REPORTS AND RECORDS

The Contractor shall submit an estimated progress schedule, schedule of material compliance and sample submittals, and schedule of values of the work to the Engineer within ten days after the Notice to Proceed for acceptability and approval, including those of Subcontractors.

- A. Schedule of Submittals Received _____ Yes _____ No
If not, date due: _____
- B. Distribution of Copies: Contractor will submit 3 copies for review. Submittals that no exceptions are taken to will be distributed as follows:
- | | | |
|----------------|----------------|---------------|
| Federal Agency | _____ | (# of Copies) |
| State Agency | <u>One (1)</u> | (# of Copies) |
| Engineer | <u>One (1)</u> | (# of Copies) |
| Contractor | <u>One (1)</u> | (# of Copies) |
- C. Has Contractor been informed he must certify submittals before submission: Failure to comply will result in rejection of submittal. X Yes _____ No
Remarks: All submittals must be certified by the DQSI
- D. Contractor shall furnish to the Engineer weekly reports of progress of the work including Contractors' compliance with the approved progress schedule and current schedule of submittals. Due Date:

12. QUALITY CONTROL

- A. Quality Control Person: Name Martin Klein
Phone # (504) 458-8631
- B. Field Superintendent: Name Darryl Deviller
Phone # (985) 960-0447
24 hr. # _____
- C. Authorized to Execute
Change Orders and
Modifications: Name Stanley Lee
- D. Contractors informed will be responsible for record drawings X Yes No

E. Daily Quality Control Form and Report reviewed: _____ Yes X No
Remarks: Contract shall submit Quality Control Forms

13. ENVIRONMENTAL PROTECTION PLAN

(Burning, Dust Control, Sanitary Facilities, Storm Water Pollution, etc.)

Received _____ X Yes _____ No

If not, date due: _____

Remarks: _____

14. NOTICE TO PROCEED

A. Issued at Meeting _____ X Yes _____ X No

B. Date June 2, 2016

C. Construction Start Date June 2, 2013

D. Construction Completion Date September 30, 2016

Remarks: _____

15. MONTHLY PAYMENT REQUESTS

A. Has Schedule of Values Been Submitted _____ Yes _____ No

If not, due date _____

B. Has Schedule of Values been approved _____ Yes _____ No

C. Pay request ending date will be Any day of month
(Day of Month)

D. Time anticipated for review A. Engineer 15 Days

B. Owner 15 Days

Remarks: _____

16. AS-BUILT DRAWINGS

The Contractor shall keep an accurate as-built record, in a manner approved by the Engineer, of all changes in the Contract Document during construction. Any markings for changes, revisions, etc. shall be red erasable pencil.

17. WEEKLY PROGRESS MEETINGS: To be determined prior to beginning construction

Day _____ Time _____ Place _____

18. A review of the technical plans and specifications was made.

Comments _____

DQSI, LLC has indicated that they will be mobilizing equipment and rock barges via Barataria Waterway and St. Vincent Bayou through Little Lake and Bay L' Ours to project site.

DQSI, LLC has been notified of the following:

1. Requirements of Louisiana First Hire on page 48 of the specifications.
2. All rock barges shall be certified with barge tables. Barges shall be measured at the project site.
3. Pre-construction surveys shall be conducted just prior to mobilization to the project site.
4. Landowner shall be notified prior to mobilization.
5. DQSI, LLC has agreed to shuttle the resident project representative to and from the site and around the project site to perform his/her duties and responsibilities in lieu of providing a separate boat for exclusive use by the project representative. Should boat transportation impede the project representative from performing his/her duties, DQSI, LLC shall immediately provide a boat meeting the specifications in the project manual.

SIGNED:

STATE AGENCY

DATE

PROJECT REPRESENTATIVE

DATE

ATTACHMENT E

SUBMITTALS

**TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR
MANUFACTURER'S CERTIFICATES OF COMPLIANCE**

For use of this form, see ER 415-1-10; the proponent agency is CECM-CE.

DATE

2016-08-22

TRANSMITTAL NO.

TS-6

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by the contractor)

TO:

Stanley Lee
DQSI, LLC
19218 North 5th Street
Covington, LA 70433

FROM:

Joel McLain
APC Construction, LLC
400 Lafayette Street, Suite 100
New Orleans, LA 70130

CONTRACT NO.

BA-02

CHECK ONE:

☒ THIS IS A NEW TRANSMITTAL

☐ THIS IS A RESUBMITTAL OF

TRANSMITTAL

SPECIFICATION SEC. NO. (Cover only one section with each transmittal)

TS-6 Woven Geotextile Fabric

PROJECT TITLE AND LOCATION
GIWW to Clovelly Hydrologic Restoration

THIS TRANSMITTAL IS FOR: (Check one)

☐ FIO ☒ GA ☐ DA ☐ CR ☐ DACR ☐ DAGA

ITEM NO. (See Note 3)	DESCRIPTION OF SUBMITTAL ITEM (Type size, model number/etc.)	SUBMITTAL TYPE CODE (See Note 8)	NO. OF COPIES	CONTRACT DOCUMENT REFERENCE		CONTRACTOR REVIEW CODE	VARIATION Enter "Y" if requesting a variation (See Note 6)	USACE ACTION CODE (Note 9)
				SPEC. PARA. NO.	DRAWING SHEET NO.			
1	Geotextile Fabric	SD-03	6	6.2		A		
	DQSI							
	Approved							
	Approved with corrections as noted on							
	Submittal data and/or sheet(s)							
	SIGNATURE: <i>[Signature]</i>							
	TITLE: Project Manager							
	DATE: 8-23-2016							

REMARKS

I certify that the above submitted items had been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.

Joel McLain

NAME OF CONTRACTOR

Joel McLain

SIGNATURE OF CONTRACTOR

Digitally signed by Joel McLain
Date: 2016.08.22 14:19:54
+05'00'

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by item No.)

NAME AND TITLE OF APPROVING AUTHORITY

SIGNATURE OF APPROVING AUTHORITY

DATE



PRODUCT DATA SHEET

WINFAB 4x4

WINFAB 4x4 is manufactured using high tenacity polypropylene yarns that are woven to form a dimensionally stable network, which allows the yarns to maintain their relative position. WINFAB 4x4 resists ultraviolet deterioration, rotting and biological degradation and is inert to commonly encountered soil chemicals.

PROPERTY	TEST METHOD	MARV ENGLISH	MARV METRIC
Tensile Strength (Grab)	ASTM D-4632	600 x 500 lbs	2670 x 2220 N
Elongation	ASTM D-4632	15 x 15%	15 x 15%
Wide Width Tensile	ASTM D-4595	4800 x 4800 lbs/ft	70 x 70 kN/m
Wide Width Elongation	ASTM D-4595	10 x 8%	10 x 8%
Wide Width Tensile Strength at 5% Strain	ASTM D-4595	1452 x 2604 lbs/ft	21.2 x 38 kN/m
Puncture	ASTM D-4833	180 lbs	800 N
Mullen Burst	ASTM D-3786	1350 psi	9300 kPa
Trapezoidal Tear	ASTM D-4533	250 x 250 lbs	1110 x 1110 N
UV Resistance (at 500 hrs)	ASTM D-4355	80%	80%
Apparent Opening Size (AOS)*	ASTM D-4751	30 US Std. Sieve	0.60 mm
Permittivity	ASTM D-4491	.15 sec ⁻¹	.15 sec ⁻¹
Water Flow Rate	ASTM D-4491	10 gpm/ft ²	405 l/min/m ²
Roll Sizes		15' x 300'	4.57 m x 91.5 m

*Maximum average roll value.

☐
☒
☐
☐
☐

Reviewed & Approved
Reviewed & Approved As Noted
Resubmit
Rejected

Willacoochee Industrial Fabrics
Quality at Competitive Prices.

769 West Main Street
 721 Government Street, Ste 302, Baton Rouge, LA 70802
 PO Box 599
 Willacoochee, GA 31650

PH: 912-534-5757
 FAX: 912-534-5533

www.winfabusa.com

Review is only for general conformance with design concept of project and general compliance with the Contract Documents. Contractor is responsible for confirming and correlating dimensions at job site; for information that pertains to fabrication process or construction techniques and for construction of all trades. Review of shop drawings shall not relieve Contractor, any Subcontractor, and/or Material Supplier of responsibility for deviation from requirements of Contract Documents. The governing local jurisdiction(s) or entity(s) must approve this shop drawing submittal for compliance with the current approved project list, where applicable.

1. The elongation shall meet the 10x8 as revised by supplier on attached sheet
 2. Test seam strength

Reviewed by: _____ Date: _____

Smith, James

From: Tanisha Pena <TPena@ind-fab.com>
Sent: Friday, September 09, 2016 11:39 AM
To: Smith, James
Cc: Joel McLain (joel.mclain@apcconstruction.com)
Subject: RE: Fabric questions

Hello Jim,

After reviewing I thought it would be easier to create a chart with both product comparison:

Property	Test Method	Units	Specification	Winfab 4x4	Comments
Wide Width Tensile	ASTM D4595	lbs/ft	4800	4800	Product meets minimum.
Seam Strength	ASTM D4884	lbs/ft	2400	TBD	this requires a seam destruction to have to send off a seam for testing
Elongation at Break (assumed as Wide Width Elongation)	ASTM D4595	%	9%	10% x 8%	Spec states Elongation at Break, 1 for Wide width Elongation (D4632) Product meets Elongation at Break
Elongation at Break	ASTM D4632	%		15% x 15%	Product meets in one direction, elongation in the other. This is as stronger fabrics have less elongation allows them to stretch less, it is good is desired.
Puncture Resistance	ASTM D4833	lbs.	90	n/a	ASTM D4833 is no longer an accepted test method, manufacturers no longer tests.
UV Stability	ASTM D4355	% residual	70% @ 500 hrs	80%	Product Exceeds specification.
AOS	ASTM D4751	Sieve	no finer than 50, no coarser than 30	30	Product meets minimum.
Permittivity	ASTM D4491	sec -1	0.15	0.15	Product meets minimum.
Flow Rate	ASTM D4491	gal/min/ft2	10	10	Product meets minimum.
Trapezoidal Tear	ASTM D4533	lbs.	220	250	Product exceeds minimum.

Please review and let me know if you have any questions.

Thank you sir!!

From: Smith, James [mailto:SmithJames@stanleygroup.com]
Sent: Friday, September 09, 2016 8:30 AM
To: Tanisha Pena <TPena@ind-fab.com>
Subject: Fabric questions



APC Construction, LLC

Physical Office:
400 Lafayette Street
Suite 100
New Orleans, LA
70130

Tel: (504) 539-4260
Fax: (504) 324-0777
Website: www.apcconstruction.com
E-Mail: info@apcconstruction.com

GIWW To Clovelly Hydrologic Restoration Geotextile Fabric Placement Plan

APC Construction, LLC proposes the following procedures to install geotextile fabric as per the lines and grades shown on the plans or as approved by the Owner:

1. A 3-4" pipe approximately 50' in length will be installed into the rolled geotextile fabric and rigged to the 1st excavator, similar to a spreader bar configuration.
2. An additional pipe or similar material will be attached to the start and/or beginning of the geotextile fabric to hold down the beginning of the geotextile fabric to the starting point. A 2nd excavator will utilized to perform this operation.
3. The 1st excavator will begin laying out the geotextile fabric, to lines and grades as shown in plans, in 15' increments. An additional pipe will be used to provide weight to hold geotextile fabric to the curvature of the existing water bottom.
4. Once geotextile fabric is laid out in 15' section, the 2nd excavator will begin placing rip-rap onto the geotextile fabric, limiting the height of stone drop to less than one (1) foot. During this time insuring the surface is relative smooth and free of obstruction, depressions, debris, soft or low density pockets of material, and stone.
5. The above procedure will continue until the total fabric section are installed and rip-rap has been placed to hold geotextile fabric to the lines and grades as shown on plans and Owners approval.
6. The geotextile fabric panels are approximately 50' x 105' with sewn panels approximately every 15'.

<input type="checkbox"/>	Reviewed & Approved
<input checked="" type="checkbox"/>	Reviewed & Approved As Noted
<input type="checkbox"/>	Resubmit
<input type="checkbox"/>	Rejected

Stanley Consultants, Inc.
721 Government Street, Ste 302, Baton Rouge, LA 70802

Review is only for general conformance with design concept of project and general compliance with the Contract Documents. Contractor is responsible for confirming and correlating dimensions at job site; for information that pertains to fabrication process or construction techniques, and for coordination of work of all trades. Review of shop drawings shall not relieve Contractor, any Subcontractor, and/or Material Supplier of responsibility for deviation from requirements of Contract Documents nor for errors or omissions in shop drawings. The governing local jurisdiction(s) or entity(s) must approve this shop drawing submittal for compliance with the current approved project list, where applicable.

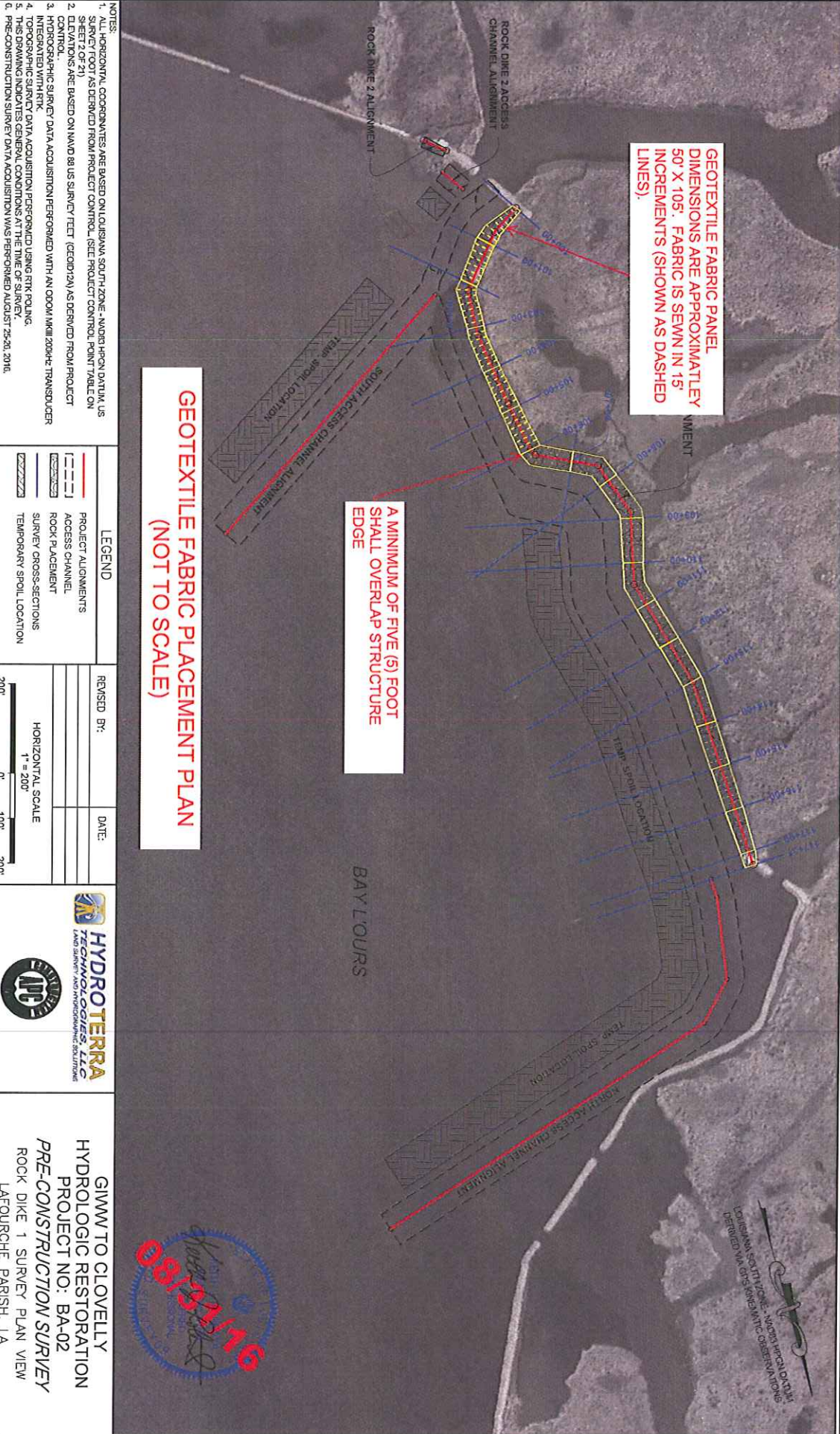
Reviewed by: James L. Smith Date: 9 Sept 15

1. Fabric to be laid perpendicular to centerline
2. Fabric to extend 5' beyond rock
3. Follow spec for seams and how sewed

GEOTEXTILE FABRIC PANEL
DIMENSIONS ARE APPROXIMATELY
50' X 105'. FABRIC IS SEWN IN 15'
INCREMENTS (SHOWN AS DASHED
LINES).

A MINIMUM OF FIVE (5) FOOT
SHALL OVERLAP STRUCTURE
EDGE

GEOTEXTILE FABRIC PLACEMENT PLAN (NOT TO SCALE)



- NOTES:
1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HIGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL. (SEE PROJECT CONTROL POINT TABLE ON SHEET 2 OF 21)
 2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET. (CEOD12A) AS DERIVED FROM PROJECT CONTROL.
 3. CONTROL POINTS SURVEY DATA ACQUISITION PERFORMED WITH AN ODOM MM18 2004Hz TRANSCEIVER INTERFERED WITH RTK.
 4. TOPOGRAPHIC SURVEY DATA ACQUISITION PERFORMED USING RTK POLING.
 5. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
 6. PRE-CONSTRUCTION SURVEY DATA ACQUISITION WAS PERFORMED AUGUST 25-26, 2016.

LEGEND	
	PROJECT ALIGNMENTS
	ACCESS CHANNEL
	ROCK PLACEMENT
	SURVEY CROSS-SECTIONS
	TEMPORARY SPOIL LOCATION

REMOVED BY:	DATE:
HORIZONTAL SCALE	
1" = 200'	

HYDROTERRA TECHNOLOGIES, LLC
LAND SURVEY AND HYDROLOGIC SOLUTIONS

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC - 202 JACOBS RUN, SCOTT, LA 70563

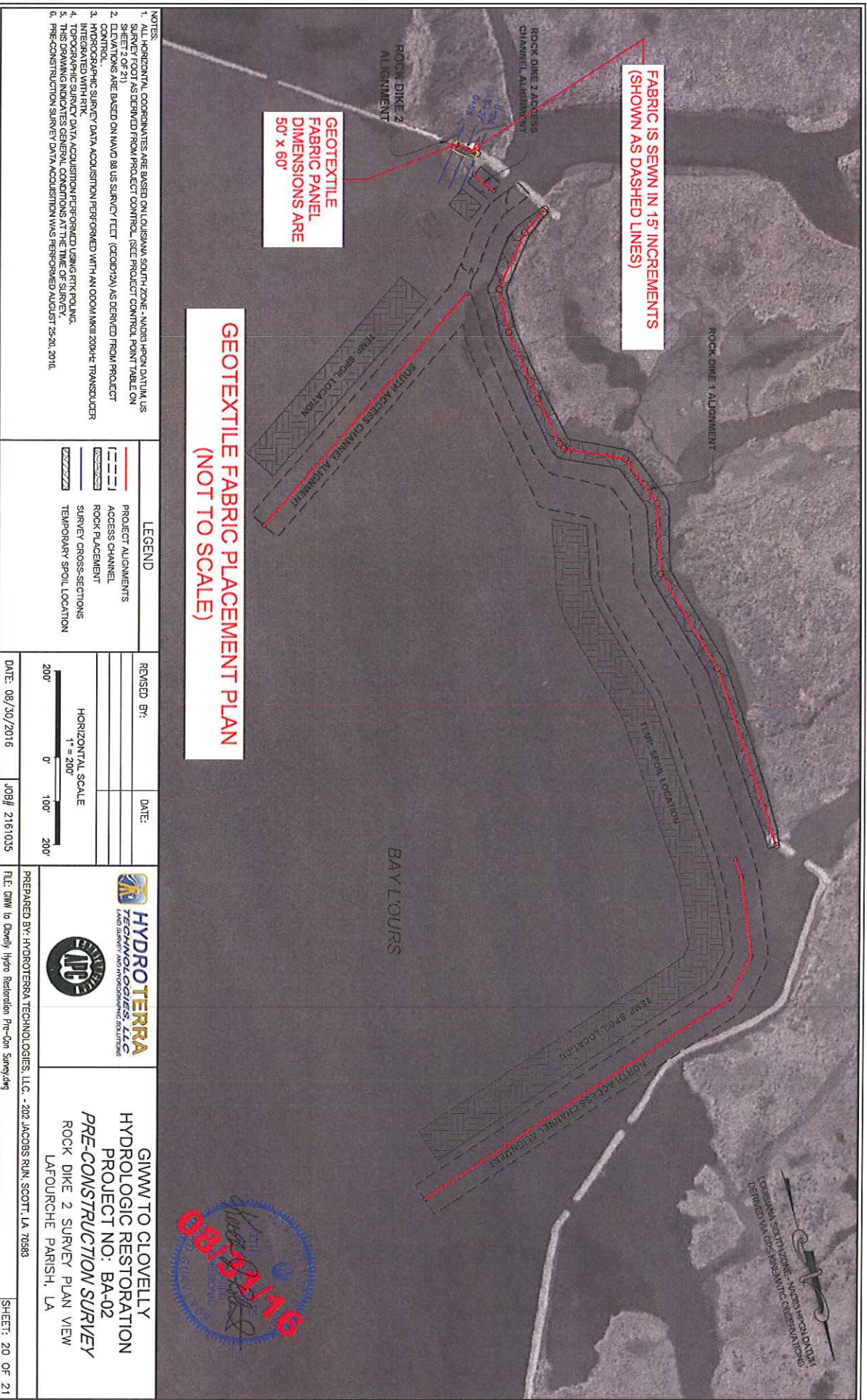
GIWW TO CLOVELLY
HYDROLOGIC RESTORATION
PROJECT NO: BA-02
PRE-CONSTRUCTION SURVEY
ROCK DIKE 1 SURVEY PLAN VIEW
LAFOURCHE PARISH, LA

DATE: 08/30/2016

JOB# 2161035

FILE: GIWW to Clovelly Hydro Restoration Pre-Con Survey.dwg

SHEET: 5 OF 21



TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE				DATE		TRANSMITTAL NO.		
For use of this form, see ER 415-1-10; the proponent agency is CECW-CE.				2016-09-06		TS-6		
SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by the contractor)								
TO: Stanley Lee DQSI, LLC 19218 North 5th Street Covington, LA 70433		FROM: Joel McLain APC Construction, LLC 400 Lafayette Street, Suite 100 New Orleans, LA 70130		CONTRACT NO. BA-02		CHECK ONE: <input checked="" type="checkbox"/> THIS IS A NEW TRANSMITTAL <input type="checkbox"/> THIS IS A RESUBMITTAL OF TRANSMITTAL _____		
SPECIFICATION SEC. NO. (Cover only one section with each transmittal) TS-6 Woven Geotextile Fabric		PROJECT TITLE AND LOCATION GIWW To Clovelly Hydrologic Restoration		THIS TRANSMITTAL IS FOR: (Check one) <input type="checkbox"/> FIO <input checked="" type="checkbox"/> GA <input type="checkbox"/> DA <input type="checkbox"/> CR <input type="checkbox"/> DA/GA				
ITEM NO. (See Note 3)	DESCRIPTION OF SUBMITTAL ITEM (Type size, model number/etc.)	SUBMITTAL TYPE CODE (See Note 8)	NO. OF COPIES	CONTRACT DOCUMENT REFERENCE SPEC. PARA. NO. DRAWING SHEET NO.		CONTRACTOR REVIEW CODE	VARIATION Enter "v" if requesting a variation (See Note 6)	USAGE ACTION CODE (Note 9)
2	a. Geotextile Fabric Placement Plan	b. SD-01	c. 1	d. 6.6	e. f.	g. h.	i. l.	
	DQSI							
	Approved							
	Approved with corrections as noted on							
	Submittal data and/or sheet(s)							
	SIGNATURE: <u>[Signature]</u>							
	TITLE: <u>Project Manager</u>							
	DATE: <u>9-8-16</u>							
REMARKS								
I certify that the above submitted items had been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.								
APC Construction, LLC NAME OF CONTRACTOR				Joel McLain SIGNATURE OF CONTRACTOR				
SECTION II - APPROVAL ACTION								
ENCLOSURES RETURNED (List by item No.)			NAME AND TITLE OF APPROVING AUTHORITY			SIGNATURE OF APPROVING AUTHORITY		

Pine Bluff Sand & Gravel Company

W. SCOTT McGEORGE, PRES.

RIVER CONTRACTORS

DREDGING

POST OFFICE BOX 7008

PINE BLUFF, ARK. 71611-7008

REVTMENTS

PILE DIKES

MATERIAL DATA SHEET

CUMBERLAND RIVER QUARRY
(LaDOTD SOURCE CODE ABBS)

LaDOTD Class 130#

<u>STONE SIZE (lb)</u>	<u>TYPICAL % SMALLER</u>	<u>LaDOTD SPEC.</u>
650	100	100
260	86	45 - 100
130	44	15 - 50
40	14	0 - 15

Specific Gravity:

Bulk	2.66
SSD	2.68
Apparent	2.72
Absorption	0.8%

Abrasion Loss: 20.4%

Soundness Loss: 4.8%

- ☒ Reviewed & Approved
☐ Reviewed & Approved As Noted
☐ Resubmit
☐ Rejected

Stanley Consultants, Inc.
721 Government Street, Ste 302, Baton Rouge, LA 70802

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Reviewed by: Stanley Consultants, Inc. Date: 9 Sep 16

September 2013

MVD/MVK Master List
Stone Protection Sources

On the basis of information and data available, stone meeting the quality requirements in paragraph EVALUATION TESTING OF STONE of UFGS Section 02380, has been produced from the sources listed. Acceptance of a source of stone is not to be construed as acceptance of all material from that source. The right is reserved to reject materials from certain localized areas, zones, strata, or channels, when such materials are unsuitable for stone as determined by the Contracting Officer. The Contracting Officer also reserves the right to reject individual units of produced specified materials in stockpiles at the quarry, all transfer points, and at the project construction site when such materials are determined to be unsuitable. Additional guidance is presented in paragraph GOVERNMENT TESTING AND STUDIES of UFGS Section 02380.

Lat/Long (Tested)	Quarry Location, Address and Telephone Number	Main Office Address and Telephone Number
ALABAMA		
34°26.0'N 88°03.2' W NEW SOURCE Added August (2013)	Red Bay Quarry – From Red Bay, AL take AL Hwy 24 and go east approx. 6 miles to Country Rd. 25 (near mile marker 6) approx. 0.8mile east of intersection of AL Hwy 24 and 27. Turn south onto County Rd 25 and go approx. 1 mile and bear right onto Cooney Rd. to quarry entrance on right. 250 Cooney Road Red Bay, Alabama (256)-356-4030	Limestone Red Bay, Inc. P.O. Box 8057 2601 Celda Drive POC: John Wroten (662)327-9224
33.14768 N 85.57094 W NEW SOURCE Added May (2013)	Wadley Crushed Stone Quarry – go to north of Alabama 177, turn right on County Rd. 868, go about ½ mile. A wide unmarked gravel road is on you left, a baseball field on your right. Turn left on the gravel road and follow it to the quarry office and scale house.	Wadley Crushed Stone 874 County Road 838 Wadley, Alabama 36276 Office Phone Number is 256-914-1011 Point of Contact is Mike Fordham
34N/88W (2010)	Allsboro Quarry- 8 miles east of intersection of MS Hwy 25 & Tish. Co. #957 at Midway, MS, just across AL. state line. Hoover Incorporated P. O. Box 613 Iuka, MS 38852 (256) 360-2400 (800) 535-2636	Hoover Incorporated 1205 Bridgestone Parkway P. O. Box 1700 LaVergne, TN 37086-1700 (615) 793-2600
34N/88W	Pride Quarry located on N side of US Hwy 72,	Vulcan Materials Co.

Lat/Long (Tested)	Quarry Location, Address and Telephone Number	Main Office Address and Telephone Number
Updated (2010)	Pride, AL. Vulcan Materials, Pride Quarry P.O. 740250 18055 Hwy 72 Tuscumbia, AL 35674 (256) 381-0012	Southern and GLF CST DVSN P.O. Box 385016 Birmingham, AL 35238-5016 (205) 298-3701
34°44'40"N 87°56'0"W Updated (2010)	Cherokee Quarry- 3 miles east of Cherokee, AL on old Hwy 72. Vulcan Materials Co., Cherokee Quarry P.O. Box 459 Cherokee, AL 35616 (256) 359-6404	Vulcan Materials Co. Southern and GLF CST DVSN P.O. Box 385016 Birmingham, AL 35238-5016 (205) 298-3701
32N/86W NEW SOURCE Added Aug (2010)	Hard Rock Hill Quarry – North of Highway 231, go through Wetumpka, then go through Wallasboro. When the 4 lane goes to a 2 lane in Wallsboro go 8 miles. You will see 2 white water towers on the right of the road, past this you will see County Rd. 428 (Providence Rd) take this to the left and go 2.5 miles on County Rd 428. Go straight through a cross roads, the Hard Rock Hill gate will be on the right. Quarry Phone – 334.514.8800	North Montgomery Materials, LLC 2194 Providence Rd Titus Alabama 36080 P.O. Box 469 Millbrook, AL 36054 Office: 334.290.2935 Fax: 334.514.8873
	<u>ARKANSAS</u>	
N 34° 57' 31.72" W 92° 4' 16.30" NEW SOURCE Test data dated 2009	Cabot Quarry 10302 AR Hwy 5, Cabot AR 72023 The quarry is located in Lonoke County off AR Highway 5 approx. 1.6miles north of US Highways 167/67 exit 16B, Cabot, AR.	Rogers Group, Inc 1223 Front St. Arkansas 72032 POC: Mike Knight
36.088950N 91.112365W	Black Rock Quarry (Powhatan Quarry) Powhatan Quarry	Capital Quarries Co. Inc, PO Box 105050

Lat/Long (Tested)	Quarry Location, Address and Telephone Number	Main Office Address and Telephone Number
NEW SOURCE Added Nov 2012	Div. Capital Quarries Co. Inc, 4549 Hwy 25 Powhatan AR 72458 Directions to quarry: Take Hwy 63 north or south to Hwy 25/3rd street east. Travel approx .1 miles and turn right to stay on Hwy 25, quarry will be on right hand side approx two miles ahead.	Jefferson City, Mo 65110 Chris W. Pitts Phone (870) 248-1212 Fax (870) 248-0532 Cell (573) 694-0797
36.297637N 90.982139W NEW SOURCE Added Nov 2012	Pocahontas Quarry Div. Capital Quarries Co. Inc, 632 Johnson Church Rd Pocahontas AR 72455 Directions to the quarry: Take Hwy 67 north or south to the Hwy 90/115 junction west. Follow Hwy 90/115 until the two highways split, bear right to stay on Hwy 115. Stay on Hwy 115 approx two miles and turn left on Hwy 251. Proceed .1 miles and turn left onto Johnson Church Rd. The quarry is .5 miles ahead on left.	Capital Quarries Co. Inc, PO Box 105050 Jefferson City, Mo 65110 Chris W. Pitts Phone (870) 248-1212 Fax (870) 248-0532 Cell (573) 694-0797
35 51 39.22N 91 19 42.77W (2012) NEW SOURCE Added 2012	Batesville Quarry 2.4 miles north of Cord, AR	Bradley Contracting 500 Bradley Lane Cord, AR 72524 (870) 779-2338
34°40'38"N 92°15'38"W (2010)	Granite Mountain Quarry #1 is located on east side of AR I-530 and just north of Dixon Road, AR Hwy 338	McGeorge Corporation P.O. Box 408 1425 Shamburger Lane

Lat/Long (Tested)	Quarry Location, Address and Telephone Number	Main Office Address and Telephone Number
	Granite Mountain Quarries P.O. Box 138 Sweet Home, AR 72164 (501) 490-1535	Sweet Home, AR 72164 (501) 490-1456
34°40'38"N 92°15'38"W (2010)	Granite Mountain Quarry #2 is located on west side of AR I-530 and just north of Dixon Road, AR Hwy 338 Granite Mountain Quarries P.O. Box 138 Sweet Home, AR 72164 (501) 490-1535	McGeorge Corporation P.O. Box 408 1425 Shamburger Lane Sweet Home, AR 72164 (501) 490-1456
34°34'48"N 92°27'59"W (2010)	Granite Mountain Quarry #3 is located 3 miles south of intersection of I-30 and AR Hwy 183 and south of Bryant, AR and 1 mile east on County Rd. #2 Granite Mountain Quarries P.O. Box 886 Bryant, AR 72089	McGeorge Corporation P.O. Box 408 1425 Shamburger Lane Sweet Home, AR 72164 (501) 490-1456
36N/91W Updated (2010)	Black Rock Quarry Sloan/Cavanaugh – 4.5 miles northwest of Black Rock, AR off U.S. Hwy 63 on County Rd. 208. Mr. Bill Brown (870.879.6201)	Martin Marietta Aggregates P. O. Box 260 Black Rock, AR 72415 (870) 878-6201
34°26.027'N 92°51.513'W Added June 2009	Jones Mill Quarry is located off US Highway 270 approximately 2 miles west of I-30, exit 98, Malvern, AR Contact: Gary Gray – Plant Manager 501.844.1640 Gary.gray@martinmarietta.com Doug Morin 501.520.7250 Douglas.morin@martinmarietta.com	Martin Marrietta Aggregates Inc. 4202 Highway 270 West Malvern, AR 72104 501.844.1640 501.520.7250
34° 1.083'N 94°21.259'W	Hatton Quarry is located off US Highway 59/71, Hatton AR. From US H-way 59/71 turn east on to	Martin Marrietta Aggregates Inc. 4202 Highway 270 West

Lat/Long (Tested)	Quarry Location, Address and Telephone Number	Main Office Address and Telephone Number
Added June 2009	Hatton Lane, go 0.3 miles and take a slight right onto County Rd. 15 for 0.6 miles to quarry. Contact: Gary Gray – Plant Manager 501.844.1640 Gary.gray@martinmarietta.com Doug Morin 501.520.7250 Douglas.morin@martinmarietta.com	Malvern, AR 72104 501.844.1640 501.520.7250
34N/95W Updated (2011)	River Mountain Quarry – From intersection of AR Hwy 7 and AR Hwy 22 in Dardanelle, AR, go west to Delaware, AR and turn north on AR Hwy 393, then go 0.9 miles and then turn left onto River Mountain Road and go 4.0 miles to entrance to quarry, at AR River Mile 218.5 Pine Bluff Sand & Gravel, River Mountain Quarry P.O. Box 96 Delaware, AR 72835-0096 (479) 938-7018	Pine Bluff Sand and Gravel P.O. Box 7008 Pine Bluff, AR 71611-7008 (870) 534-7120 (800) 850-2300
34N/92W Updated (2010)	Big Rock Quarry- Off AR Hwy 367, 0.5 mile north of junction with 65 th Street, Little Rock, AR Analcime-Syenite Unacceptable Monzonite Unacceptable	Arkansas Aggregates (3M Quarry) 1910 W. 65 th St. Little Rock, AR 72209 (501)565-5333
35N/91W Updated (2009)	Searcy Quarry – from I-67, exit 48, Judsonia, AR exit (AR Hwy 385), turn to go toward Plainview, AR on AR Hwy 385, go approximately 1.5 miles and turn left into quarry, Rock Lane. Vulcan Materials Co., Searcy Quarry 125 Rock Road Judsonia, AR 72081 (501) 729-3925	Vulcan Materials Co. Southern and GLF CST DVSN P.O. Box 385016 Birmingham, AL 35238-5016 (205) 298-3701
	<u>GEORGIA</u>	
	<u>ILLINOIS</u>	

Lat/Long (Tested)	Quarry Location, Address and Telephone Number	Main Office Address and Telephone Number
37.503255N 88.970074W Updated (2008)	Southern Illinois Stone: From Marion IL, take I-57 South to exit 45, turn Right onto ramp, turn Right (East) onto SR-148 (N. Refuge Rd.), keep straight onto SR-37. The quarry is 3-4 miles South of Goreville. Southern Illinois Stone Co. 4800 State Route 37 N Goreville, IL 62939-3003 (618) 995-2392	Delta Companies, Inc www.deltacos.com (573) 785-2757
37N/88W Updated (2010)	Cave-In-Rock Quarry is located approximately 5 miles east of Cave in Rock, IL. From the flashing light on Illinois Highway 1, from the ferry across the Ohio River, head east past Cave-in-Rock State Park to intersection with next road and turn south toward river. Quarry is on right 0.25 miles from intersection.	Lafarge of North America No. 2 Riverchase Office Plaza Suite 206 Birmingham, AL 35244 Mr. Barron Aaron 205.492.7934
37.31873N 89.02010W Added May 2010	Shawnee Stone, LLC- Cypress Plant From Cairo IL, go to north on I-57 to exit 18, Ullin and take ramp right. At the end of ramp turn right on Co. Rd. 7 (East), Ullin Rd. (Shawnee College Rd.), and proceed 7 mi. to St. Rt. 37. Turn left on St. Rt. 37 (North) and proceed north for 3.2 mi. and the quarry is on the right hand side of the road.	Shakespeare Aggregates, Inc. 202 West Main Street Salem, IL 62881 Tel. No. 618.548.1585 www.shakespeare-oil.com
	Bench B, Ledge 3 --ACCEPTABLE NOTE: Stone Protection from Bench B, Ledge 3 should perform satisfactory based on an assumed Resistance to F&T, 20 cycles and a mixture of the light colored and dark colored stone, mixture base on 60/40 respectively. BENCH A, LEDGES 1&2 - UNACCEPTABLE	
<u>Ledge 006</u> 37 ⁰ 20 24N 88 ⁰ 12 38W <u>Ledge 007</u>	Cave-In-Rock Quarry : Located in Hardin Couty, IL roughly 3 miles northwest of the town of Cave-in-Rock County is in extreme southern Illinois on the Ohio River. The	Hastie Mining and Trucking Co. Rt. 1 Box 55 Cave In Rock, IL 62919 Contact Terry Teitloff

Lat/Long (Tested)	Quarry Location, Address and Telephone Number	Main Office Address and Telephone Number
37° 19 41N 88° 15 57W <u>Ledge 009</u> 37° 18 42N 88° 09 55W <u>Ledge 011</u> 37° 21 56N 88° 09 48W NEW SOURCE Added Dec 2012	Quarry is accessed via Illinois Rt. 146. POC - Don Hastie LEDGE 007 – UNACCEPTABLE	
	<u>KENTUCKY</u>	
37°11'36"N 88°15'59"W Updated (2010)	Cumberland River Quarry (Formerly Smith Quarry) is located approximately 6 miles south of Salem, KY, at Cumberland River Mile 14.5. From the intersection of US Hwy 60 and KY Hwy 723 in Salem, KY go south approximately 3.5 miles and then turn right onto Maddox Road and go approximately 2.5 miles	Pine Bluff Sand and Gravel Co. 780 Spencer Road Salem, KY 42078 Tel: 870.541.4464 Fax: 870.541.4465 Formerly Titan Cumberland Resources
37N/88W Updated (2010)	Fredonia Quarry – Take US Hwy 641 2.8 miles Southeast of Fredonia, KY and turn east onto Fredonia Quarry Road. 297 Fredonia Quarry Rd. Fredonia, KY 42411 (270) 545-9338 POC: Robbie Maxwell robby.maxwell@lafarge.com	Lafarge of North America 800 N. Causeway Blvd. Ste 2A Mandeville, LA 70448 POC: John Pooler and Bob Beste (985)-727-7572 or (314) 910-9999 john.pooler@lafarge.com bob.beste@lafarge.com
37N/88W Updated (2010)	Three Rivers Quarry – 7 miles northeast of Smithland, KY, off U.S. Hwy 60 (Cumberland Road). From I-24 exit 31 and go N on KY Hwy 453 to intersection with U.S. Hwy 60 and turn right and go over Cumberland River. Quarry is on the right	Lafarge of North America 800 N. Causeway Blvd. Ste 2A Mandeville, LA 70448 POC: John Pooler and Bob Beste

Lat/Long (Tested)	Quarry Location, Address and Telephone Number	Main Office Address and Telephone Number
	4.5 mile from bridge. POC: Eddie Cooper ((270)-210-4993 eddie.cooper@lafarge.com	(985)-727-7572 or (314) 910-9999 john.pooler@lafarge.com bob.beste@lafarge.com
37°02'13"N 88°15'00"W (2010)	Grand Rivers Quarry (Gilbertsville Quarry) – On US Hwy 62/641, "Between the Dams", Lake City, KY. From I-24 exit 31 and go S on KY Hwy 453 to ramp for US Hwy 62/641 and go west to quarry office on left. Vulcan Materials Co., Grand Rivers Quarry 947 U.S. Hwy 62 Grand Rivers, KY 42045 (270) 362-4264	Vulcan Materials Co. Southern and GLF CST DVSN P.O. Box 385016 Birmingham, AL 35238-5016 (205) 298-3701
35 16.254N 91 12.210W (2010) Added July 2010	Slats Lucas Quarry - is located in Livingston County, KY, From Paducah, KY take US Hwy 60N through Smitland, KY to Salem, KY. Turn South on KY Hwy 723 for 5.4 mi to Pinkneyville, KY and turn left onto Lee Rd to entrance to Slats Lucas Quarry. 712 Lee Road (270)988.2647	Warren Paving Co. 562 Elks Lake Road P.O. Box 572 Hattiesburg, MS 39403 (601)544.7800 Jonathan Gilland Gen. Manager T.J. Palmer – Quality Control Tech.
37 03 29.13N 88 17 04.54W Elev. 300ft(NGVD) present quarry floor (2012) NEW SOURCE Added January 2012	Chaudet Creek Quarry - is located in Livingston County, KY. Form the intersection of I-24 and KY Hwy 453 (Dover Rd), Grand Rivers, KY, take KY 453 1.7 miles north to the entrance quarry on the left.	Calx Resources 877 Dover Road Grand Rivers, KY 42045 TJ Palmer: (270)928-4757
<u>MISSOURI</u>		
39 14 50.27N 91 14 16.0W Added Dec 2011	Ashley quarry is located approximately two miles south of Ashley Missouri on the west side of Highway 161.	Magruder Limestone Company Inc. 255 Watson Rd. Troy, MO 63379

Lat/Long (Tested)	Quarry Location, Address and Telephone Number	Main Office Address and Telephone Number
38N/90W Updated (2010) 38 05 03N 90 12 30W	Brickeys Quarry (Old Menefee Quarry) @MRM 135.8 above the mouth of the Ohio River,- Take I- 55 4 miles north of Bloomsdale, MO, exit 162, and take exit for County Rds. DD & OO and turn east and go 1 mile to US Hwy 61 and continue straight ahead thru intersection on Brickeys Rd. to quarry. (Formerly Brickeys Stone LLC) Added Platin Limestone formation - 2013	APAC 13588 Brickeys Rd. Bloomsdale, MO 63627 (573) 483-3475
37.23053N 89.564899W Updated (2008)	Southeast Missouri Stone Company is located approx. 5 minutes South of Cape Gerardeau, MO. The quarry is located on the Northeast corner of Route 72 and South Kingshighway, East of Interstate I-55, exit no. 93. Southeast Missouri Stone Co. 1224 S. Kingshighway Cape Girardeau, MO 63702 (573) 986-9516	Delta Companies, Inc www.deltacos.com (573) 785-2757
36N/90 W Updated (2008)	Williamsville Stone Co. Quarry, State Highway 67N, Poplar Bluff, MO 63901 Approximately 10 miles north of Poplar Bluff, MO on Highway 67 on East side of road. Contact: Mike Martin (573) 785-2757	Delta Companies, Inc www.deltacos.com (573) 785-2757
37 26.068 N 89 38.248W NEW SOURCE Added Dec 2012	Fruitland Quarry – located in Cape Girardeau County, MO. Take I-55 North from Cape Girardeau, MO, to exit 105 for Pocahtonat, MO and go 0.4 mile north on U.S. 61 to quarry entrance. Ledge #25 - Orange Contact: Dennis Winters – Quarry Manager	Strack Stone Company 5120 State Highway 74 Cape Girardeau, MO 63701 (573)335-9430

Lat/Long (Tested)	Quarry Location, Address and Telephone Number	Main Office Address and Telephone Number
37.14.667N 90 27.284W NEW SOURCE Added Dec 2012	Lodi Quarry – located in Wayne County, MO. From Cape Girardeau, MO take MO Highway 34 west to junction with the U.S. Highway 67 and turn north onto U.S. 67 and go approx. 5 miles and the quarry will be on the right. Ledge #9 Contact: Dennis Winters – Quarry Manager	Strack Stone Co. 5120 State Highway 74 Cape Girardeau, MO 63701 (573) 335-9430
37N/89W (2005)	Gray's Point Quarry - MRM 46.2, above the mouth of the Ohio River. Take Exit 91 of I-55 on Rd. AB at Scott City, MO, and go east 4 miles to quarry. Tower Rock Stone Co. P.O. Box 4248 Scott City, MO 63780 (573) 264-3800 CLASSIFIED AS INACTIVE	Tower Rock Stone Co. P. O. Box 50 Columbia, IL 62236 (618) 281-4106
38N/90W Updated (2010)	Bussen Quarry - 5 miles north of St. Genevieve, MO, MRM 127.6, above the mouth of the Ohio River, 19829 Lower Frenchman Rd. Bench 8 updated and Zone 12 added on 23 Sept 2010 Tower Rock Stone Co. P.O. Box 111 St. Genevieve, MO 63670 (573) 883-7415	Tower Rock Stone Co. P. O. Box 50 Columbia, IL 62236 (618) 281-4106
	HONDURAS, CENTRAL AMERICA	
Bench 8 updated 2010 and Zone- 12 new source added 15° 10'N 87° 52'W	Quarry is located in The State Of Cortez in Honduras. Located about 18 miles south of the city of El Progreso and 22 miles north of the city of Santa Barbara, Zacatales, Honduras Sources only tested for use along Gulf Coast at present time.	AMERICAN STONE SUPPLY, INC. (ASSI) Importaciones Rodriguez, S.A. 3500 N. Causeway Blvd., Ste 160 Metairie, LA 70002 Tel: (504) 355-9500 Fax: (504)322-3933

Lat/Long (Tested)	Quarry Location, Address and Telephone Number	Main Office Address and Telephone Number
Updated (2011)		Email: ASSI@americanstonesupply.com Contact: Sharon E. Brown



PRODUCT DATA SHEET

WINFAB 4x4

WINFAB 4x4 is manufactured using high tenacity polypropylene yarns that are woven to form a dimensionally stable network, which allows the yarns to maintain their relative position. WINFAB 4x4 resists ultraviolet deterioration, rotting and biological degradation and is inert to commonly encountered soil chemicals.

PROPERTY	TEST METHOD	MARV ENGLISH	MARV METRIC
Tensile Strength (Grab)	ASTM D-4632	600 x 500 lbs	2670 x 2220 N
Elongation	ASTM D-4632	15 x 15%	15 x 15%
Wide Width Tensile	ASTM D-4595	4800 x 4800 lbs/ft	70 x 70 kN/m
Wide Width Elongation	ASTM D-4595	10 x 8%	10 x 8%
Wide Width Tensile Strength at 5% Strain	ASTM D-4595	1452 x 2604 lbs/ft	21.2 x 38 kN/m
Puncture	ASTM D-4833	180 lbs	800 N
Mullen Burst	ASTM D-3786	1350 psi	9300 kPa
Trapezoidal Tear	ASTM D-4533	250 x 250 lbs	1110 x 1110 N
UV Resistance (at 500 hrs)	ASTM D-4355	80%	80%
Apparent Opening Size (AOS)*	ASTM D-4751	30 US Std. Sieve	0.60 mm
Permittivity	ASTM D-4491	.15 sec ⁻¹	.15 sec ⁻¹
Water Flow Rate	ASTM D-4491	10 gpm/ft ²	405 l/min/m ²
Roll Sizes		15' x 300'	4.57 m x 91.5 m

*Maximum average roll value.

Willacoochee Industrial Fabrics
Quality at Competitive Prices.

769 West Main Street
PO Box 599
Willacoochee, GA 31650

PH: 912-534-5757
FAX: 912-534-5533
www.winfabusa.com

Disclaimer: Willacoochee Industrial Fabrics assumes no liability for the completeness or accuracy of this information or the ultimate use of this information. This document should not be construed as engineering advice. Always consult the project engineer for project specific requirements. The end user assumes sole responsibility for the use of this information and product. The property values listed above are subject to change without notice.



St. Charles Parish
LaBranche Salinity
Barrier Project PO-43a

September 14, 2016

TRANSMITTAL SHEET

Transmittal #012

To:
Stanley Consultants, Inc.
Attn: Jim Smith
721 Government Street
Baton Rouge, Louisiana 70802
Tel: 225-388-4208

From:
DQSI, LLC
19218 North 5th Street
Covington, LA 70433
Tel: (985) 871-7472 Ext 211
Fax: (985) 259-8789

Project:
CPRA
GIWW To Clovelly Hydrologic Restoration
2015 Maintenance
Lafourche Parish
Little Lake

Contract Number:
Project No. (BA-02)

Submittal #	Copies	Submittal Description	Section #	Paragraph
013	1	Timber Pile - Resubmittal	TS-5	5.2.1


Stanley E Lee
DQSI, LLC

☒ Reviewed & Approved
☐ Reviewed & Approved As Noted
☐ Resubmit
☐ Rejected

Stanley Consultants, Inc.
721 Government Street, Ste 302, Baton Rouge, LA 70802

Review is only for general conformance with design concept of project and general compliance with the Contract Documents. Contractor is responsible for confirming and correlating dimensions at job site; for information that pertains to fabrication process or construction techniques, and for coordination of work of all trades. Review of shop drawings shall not relieve Contractor, any Subcontractor, and/or Material Supplier of responsibility for deviation from requirements of Contract Documents nor for errors or omissions in shop drawings. The governing local jurisdiction(s) or entity(s) must approve this shop drawing submittal for compliance with the current approved project list, where applicable.

Reviewed by:



Date:

18 Sept 16

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE				DATE	TRANSMITTAL NO.			
For use of this form, see ER 415-1-10; the proponent agency is CECW-CE.				2016-09-07/14	TS-5			
SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by the contractor)								
TO: Stanley Lee DQSI, LLC 19218 North 5th Street Covington, LA 70433		FROM: Joel McLain APC Construction, LLC 400 Lafayette Street, Suite 100 New Orleans, LA		CONTRACT NO. BA-2				
SPECIFICATION SEC. NO. (Cover only one section with each transmittal) TS-5 Warning Signs		PROJECT TITLE AND LOCATION GIWW to Clovelly Hydrologic Restoration						
THIS TRANSMITTAL IS FOR: (Check one) <input type="checkbox"/> FIO <input checked="" type="checkbox"/> GA <input type="checkbox"/> DA <input type="checkbox"/> CR <input type="checkbox"/> DA/CR <input type="checkbox"/> DA/GA		CHECK ONE: <input checked="" type="checkbox"/> THIS IS A NEW TRANSMITTAL <input type="checkbox"/> THIS IS A RESUBMITTAL OF TRANSMITTAL						
ITEM NO. (See Note 3)	a.	b.	SUBMITTAL TYPE CODE (See Note 8)	NO. OF COPIES	CONTRACT DOCUMENT REFERENCE SPEC. PARA. NO. DRAWING SHEET NO.	CONTRACTOR REVIEW CODE	VARIATION Enter "Y" if requesting a variation (See Note 6)	USACE ACTION CODE (Note 9)
1	Timber Pile		SD-07	1	5.2.1	A		i.
		DQSI						
		Approved						
		Approved with corrections as noted on Submittal data and/or sheet(s)						
		SIGNATURE						
		TITLE: Project Manager						
		DATE: 9-14-16						
REMARKS I certify that the above submitted items had been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.								
APC Construction, LLC NAME OF CONTRACTOR			Joel McLain SIGNATURE OF CONTRACTOR			<small>Digitally signed by Joel McLain Date: 2016.09.07 17:57:15 -0500</small>		
SECTION II - APPROVAL ACTION								
ENCLOSURES RETURNED (List by item No.)			NAME AND TITLE OF APPROVING AUTHORITY			SIGNATURE OF APPROVING AUTHORITY		
DATE			SIGNATURE OF APPROVING AUTHORITY			DATE		

Desoto Treated Materials, Inc.

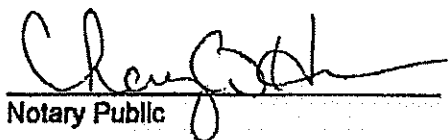
P. O. Box 460
Wiggins, MS 39577

Tel: (601) 928-3921
Fax: (601) 928-5091

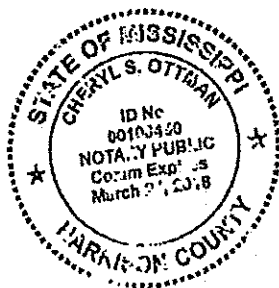
CERTIFICATION OF TREATMENT

This certifies that the wood piling on the GIWW to Clovelly Hydrologic Restoration 2015 Maintenance Project (BA-02) project meets and/or exceeds ASTM-D25 specifications for wood quality and have been pressure treated to 2.5CCA in accordance with AWWA U1-09 section 6-G (Marine Salt Water Applications), table 2-1: UC5C and T1-09 subsection 8-G9B.

Sold To: APC Construction, LLC
Shipped To: LaFourche Parish, LA Coastal Protection & Restoration
Material Shipped: (12) 60' 12" Butt 2.5CCA


Notary Public


Steve Owen, Sales/Treating Mgr



SALT WATER USE SPECIFIC REQUIREMENTS

1.1 Lumber timbers, bridge ties and mine ties shall be treated in accordance with the requirements of American Wood-Preservers' Association Standard C1, "All Timber Products—Preservative Treatment by Pressure Processes," except as modified or supplemented by the following table.

- 1.11 In those areas where Teredo and pholod attack are expected or known and where *Liknoris tripunctata* are not prevalent, creosote or creosote solution treatment will provide adequate protection.
- 1.12 In those areas where Teredo and *Liknoris tripunctata* are expected or known and where pholod attack is not prevalent, either dual treatment or high concentrations of ACA, ACZA or CCA treatment will provide adequate protection.
- 1.13 In those areas where sphaeroma terribilis attack or where *Liknoris tripunctata* and pholod attack are expected or known, the dual treatment provides the maximum protection known at present.
- 1.14 Southern Pine with exposed heartwood that is treated with CCA and used in salt or brackish water is subject to early attack from marine borers. Longer pressure periods and incising can improve the heartwood penetration.

	Southern Pine (A)	Coastal Douglas-fir (C)	Hem-fir (C)
1. First Treatment			
1.3 Conditioning	Air-seasoning, kiln drying, steaming (S), heating in the preservative (S), vapor drying or a combination.	Air-seasoning, kiln drying, Boulton drying (S), heating in the preservative (S), or a combination.	Air-seasoning, kiln drying, Boulton drying (S), heating in the preservative (S), or a combination.
1.32 Steaming			
Temp.—deg. F.—Max.	245	240	240
Duration—hr.—Max.	17	6	6
Vacuum		22	22
Inches at sea level—Min.	22		
1.33 Heating in Preservative			
Temp.—deg. F.—Max.	220	Seasoned: 210 and 6 hr. Green or partially seasoned: 220 and no time limit.	Seasoned: 210 and 6 hr. Green or partially seasoned: 220 and no time limit.
Duration—hr.—Max.	No time limit	Required	Required
1.6 Incising (D)	Not required		
2. TREATMENT			
2.22 Pressure—psi—Min.	125	75	75
—Max.	200	150	150
2.23 Expansion Bath			
Temp.—deg. F.—Max.	220	220	220
	Not permitted	Not permitted	Not permitted
2.24 Final Steaming			
	Not permitted	Not permitted	Not permitted
3. RESULTS OF TREATMENT			
3.1 Retention—pcf—Min. By Assay			
Sampling zone for assay—Inches from surface	0 to 0.60	0 to 0.60	0 to 0.60
Number of borings per charge	20	20	20
ACA	1.50	1.50	1.50
ACZA	1.50	1.50	1.50
CCA	1.50	1.50(E)	1.50
3.2 Penetration in inches of wood and/or percent of sapwood—Min. (C1, 3.2.1)	1.00	0.5 and 90	0.5 and 90
3.21 Determination of Penetration	A borer core shall be taken from 20 pieces in each charge. If 80% of the borings meet the penetration requirements the charge will be accepted.	A borer core shall be taken from the incised face of 20 pieces in each charge. If 80% of the borings meet the penetration requirements the charge shall be accepted.	A borer core shall be taken from the incised face of 20 pieces in each charge. If 80% of the borings meet the penetration requirements the charge shall be accepted.
1.3 Second Treatment			
1.3 Conditioning	Air-seasoning, steaming, heating in the preservative, or a combination.	Air-seasoning, Boulton drying, heating in the preservative, or a combination.	Air-seasoning, Boulton drying, heating in the preservative, or a combination.
1.32 Steaming			
Temp.—deg. F.—Max.	245		
Duration—hr.—Max.	20	Not permitted	Not permitted
Inches at sea level—Min.	22	22	22
1.33 Heating in Preservative			
Temp.—deg. F.—Max.	220	Seasoned: 210 and 6 hr. Green or partially seasoned: 220 and no time limit.	Seasoned: 210 and 6 hr. Green or partially seasoned: 220 and no time limit.
Duration—hr.—Max.	No time limit		
2. TREATMENT			
2.22 Pressure—psi—Min.	125	75	75
—Max.	200	150	150
2.23 Expansion Bath			
Temp.—deg. F.—Max.	220	220	220
	Not permitted	Not permitted	Not permitted
2.24 Final Steaming			
	Not permitted	Not permitted	Not permitted
3. RESULTS OF TREATMENT			
3.1 Retention—pcf—Min. By Assay			
Sampling zone —Inches from surface	0 to 0.60	0 to 0.60	0 to 0.60
Number of borings per charge	20	20	20
Creosote	20.0	20.0	20.0
Creosote solution - By Assay	20.0	20.0	20.0
3.2 Penetration in inches of wood and/or percent of sapwood—Min. (C1, 3.2.1)	0.5 or 85	0.5 and 90	0.5 and 90
3.21 Determination of Penetration	A borer core shall be taken from 20 pieces in each charge. If 80% of the borings meet the penetration requirements the charge will be accepted.	A borer core shall be taken from the incised face of 20 pieces in each charge. If 80% of the borings meet the penetration requirements the charge shall be accepted.	A borer core shall be taken from the incised face of 20 pieces in each charge. If 80% of the borings meet the penetration requirements the charge shall be accepted.
4. PRESERVATIVES	All standard preservatives listed above	All standard preservatives listed above	All standard preservatives listed above
5. Redrying after Treatment (max. permissible kiln temp.—degrees F)	165	165	165

All notes referenced above are found on page 2 of this Standard.

TABLE 2-1 SERVICE CONDITIONS FOR USE CATEGORY DESIGNATIONS

USE CATEGORY	SERVICE CONDITIONS	USE ENVIRONMENT	COMMON AGENTS OF DETERIORATION	TYPICAL APPLICATIONS
UC1 INTERIOR/ DRY	Interior construction Above Ground Dry	Continuously protected from weather or other sources of moisture	Insects only	Interior construction and furnishings
UC2 INTERIOR/ DAMP	Interior construction Above Ground Damp	Protected from weather, but may be subject to sources of moisture	Decay fungi and insects	Interior construction
UC3A ABOVE GROUND Protected	Exterior construction Above Ground Coated & rapid water runoff	Exposed to all weather cycles, not exposed to prolonged wetting	Decay fungi and insects	Coated millwork, siding and trim
UC3B ABOVE GROUND Exposed	Exterior construction Above Ground Uncoated or poor water run-off	Exposed to all weather cycles including prolonged wetting	Decay fungi and insects	Decking, deck joists, railings, fence pickets, uncoated millwork
UC4A GROUND CONTACT General Use	Ground Contact or Fresh Water Non-critical components	Exposed to all weather cycles, normal exposure conditions	Decay fungi and insects	Fence, deck, and guardrail posts, crossies & utility poles (low decay areas)
UC4B GROUND CONTACT Heavy Duty	Ground Contact or Fresh Water Critical components or difficult replacement	Exposed to all weather cycles, high decay potential includes salt water splash	Decay fungi and insects with increased potential for biodeterioration	Permanent wood foundations, building poles, horticultural posts, crossies & utility poles (high decay areas)
UC4C GROUND CONTACT Extreme Duty	Ground Contact or Fresh Water Critical structural components	Exposed to all weather cycles, severe environments extreme decay potential	Decay fungi and insects with extreme potential for biodeterioration	Land & Freshwater piling, foundation piling, crossies & utility poles (severe decay areas)
UC5A MARINE USE Northern Waters	Salt or brackish water and adjacent mud zone which includes Long Island, NY and northward, north of San Francisco	Continuous marine exposure (salt water)	Salt water organisms	Piling, bulkheads, bracing
UC5B MARINE USE Central Waters	Salt or brackish water and adjacent mud zone south of Long Island, NY to the southern border of GA, south of San Francisco	Continuous marine exposure (salt water)	Salt water organisms including creosote tolerant <i>Littoraria tripunctata</i>	Piling, bulkheads, bracing
UC5C MARINE USE Southern Waters	Salt or brackish water and adjacent mud zone South of GA, Gulf Coast, Hawaii, and Puerto Rico	Continuous marine exposure (salt water)	Salt water organisms including <i>Martesia</i> , <i>Sphaeroma</i>	Piling, bulkheads, bracing
UC7A FIRE RETARDANT Interior	Fire protection as required by codes Above Ground Interior construction	Continuously protected from weather or other sources of moisture	Fire	Roof sheathing, roof trusses, studs, joists, paneling
UC7B FIRE RETARDANT Exterior	Fire protection as required by codes Above Ground Exterior construction	Subject to wetting	Fire	Vertical exterior walls, inclined roof surfaces or other construction which allows water to quickly drain

Stanley Lee

From: Joel McLain <joel.mclain@apcconstruction.com>
Sent: Wednesday, September 14, 2016 1:38 PM
To: Stanley Lee
Cc: Shelly Stubbs; Martin Klein; Jason Huff; Todd Miller
Subject: RE: GIWW to Clovelly: Submittals Returned from the Engineer
Attachments: Timber Piles Certification resubmittal.pdf

Stanley,

See attached revised timber pile certification. Let me know if you have any questions.

Thanks,

--

Joel McLain

APC Construction, LLC
400 Lafayette Street, Suite 100 | New Orleans, LA 70130
Office (504) 539.4260 | Cell (504) 289.6207
Fax (504) 324.0777
joel.mclain@apcconstruction.com
www.apcconstruction.com

*An SBA 8(a)/SDB/HUBZone/LA DOTD DBE/ NOAB SLDBE/SRMSDC MBE Company
ISNetworld Member Contractor*

From: Stanley Lee [mailto:stanley@dgsi.com]
Sent: Tuesday, September 13, 2016 2:51 PM
To: Joel McLain <joel.mclain@apcconstruction.com>
Cc: Shelly Stubbs <shelly@dgsi.com>; Martin Klein <martin@dgsi.com>; Jason Huff <jason.huff@apcconstruction.com>;
Todd Miller <todd.miller@apcconstruction.com>; Stanley Lee <stanley@dgsi.com>
Subject: RE: GIWW to Clovelly: Submittals Returned from the Engineer

Joel,

That answers one of the engineers questions/concerns. Now we need a certification of some type. Generic in that the "piles supplied for the project will meet or exceed the project contract requirements" or something like that. Or the one you sent, but with an invoice number.

Stanley

From: Joel McLain [mailto:joel.mclain@apcconstruction.com]
Sent: Tuesday, September 13, 2016 2:17 PM
To: Stanley Lee <stanley@dgsi.com>
Cc: Shelly Stubbs <shelly@dgsi.com>; Martin Klein <martin@dgsi.com>; Jason Huff <jason.huff@apcconstruction.com>;
Todd Miller <todd.miller@apcconstruction.com>
Subject: RE: GIWW to Clovelly: Submittals Returned from the Engineer

Attached is what is contained in the email from the timber pile vendor.

Stanley Lee

From: Joel McLain <joel.mclain@apcconstruction.com>
Sent: Tuesday, September 13, 2016 2:17 PM
To: Stanley Lee
Cc: Shelly Stubbs; Martin Klein; Jason Huff; Todd Miller
Subject: RE: GIWW to Clovelly: Submittals Returned from the Engineer
Attachments: S36C-116091211220.pdf

Attached is what is contained in the email from the timber pile vendor.

Thanks,

--

Joel McLain

APC Construction, LLC
400 Lafayette Street, Suite 100 | New Orleans, LA 70130
Office (504) 539.4260 | Cell (504) 289.6207
Fax (504) 324.0777
joel.mclain@apcconstruction.com
www.apcconstruction.com

*An SBA 8(a)/SDB/HUBZone/LA DOTD DBE/ NOAB SLDBE/SRMSDC MBE Company
ISNetworld Member Contractor*

From: Stanley Lee [mailto:stanley@dgsi.com]
Sent: Tuesday, September 13, 2016 12:07 PM
To: Joel McLain <joel.mclain@apcconstruction.com>
Cc: Shelly Stubbs <shelly@dgsi.com>; Martin Klein <martin@dgsi.com>; Jason Huff <jason.huff@apcconstruction.com>;
Todd Miller <todd.miller@apcconstruction.com>
Subject: RE: GIWW to Clovelly: Submittals Returned from the Engineer

Joel,

The attached email is empty.

Stanley

From: Joel McLain [mailto:joel.mclain@apcconstruction.com]
Sent: Tuesday, September 13, 2016 7:26 AM
To: Stanley Lee <stanley@dgsi.com>
Cc: Shelly Stubbs <shelly@dgsi.com>; Martin Klein <martin@dgsi.com>; Jason Huff <jason.huff@apcconstruction.com>;
Todd Miller <todd.miller@apcconstruction.com>
Subject: RE: GIWW to Clovelly: Submittals Returned from the Engineer

Stanley,

Find attached email from vendor regarding the timber pile certification and see below. If you have any questions please call or email.



St. Charles Parish
LaBranche Salinity
Barrier Project PO-43a

September 19, 2016

TRANSMITTAL SHEET

Transmittal #013

To:
Stanley Consultants, Inc.
Attn: Jim Smith
721 Government Street
Baton Rouge, Louisiana 70802
Tel: 225-388-4208

From:
DQSI, LLC
19218 North 5th Street
Covington, LA 70433
Tel: (985) 871-7472 Ext 211
Fax: (985) 259-8789

Project:
CPRA
GIWW To Clovelly Hydrologic Restoration
2015 Maintenance
Lafourche Parish
Little Lake

Contract Number:
Project No. (BA-02)

Submittal #	Copies	Submittal Description	Section #	Paragraph
014	1	Warning Signs	TS-5	5.2.2
015	1	Warning Sign Hardware	TS-5	5.2.2 & 5.3

1. All material shall be 316 stainless


Stanley E Lee
DQSI, LLC

☐
☒
☐
☐
☐
☐

Reviewed & Approved
Reviewed & Approved As Noted
Resubmit
Rejected

Stanley Consultants, Inc.
721 Government Street, Ste 302, Baton Rouge, LA 70802

Review is only for general conformance with design concept of project and general compliance with the Contract Documents. Contractor is responsible for confirming and correlating dimensions at job site; for information that pertains to fabrication process or construction techniques, and for coordination of work of all trades. Review of shop drawings shall not relieve Contractor, any Subcontractor, and/or Material Supplier of responsibility for deviation from requirements of Contract Documents nor for errors or omissions in shop drawings. The governing local jurisdiction(s) or entity(s) must approve this shop drawing submittal for compliance with the current approved project list, where applicable.

Reviewed by:  Date: 23 Sept 16

For use of this form, see ER 415-1-10; the proponent agency is CECW-CE.

REMOVAL OF THE EN

CONTRACT NO.

CHECK ONE:

19218 North 5th Street
Covington, LA 70433


BA-02

☒ THIS IS A NEW TRANSMITTAL
☐ THIS IS A RESUBMITTAL OF
TRANSMITTAL _____

PROJECT TITLE AND LOCATION
GIWW to Clovelly Hydrologic Restoration

THIS TRANSMITTAL IS FOR: (Check one)

☐ FIO ☒ GA ☐ DA ☐ CR ☐ DACR ☐ DAGA

✓ Approved
Approved with corrections as noted on
Submittal data and/or sheet(s)
SIGNATURE: 
TITLE: Project Manager
DATE: 9-19-16

REMARKS

I certify that the above submitted items had been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.

APC Construction, LLC

NAME OF CONTRACTOR

Digitally signed by Joel
McLain
Date: 2016.09.19 09:46:47
+0300

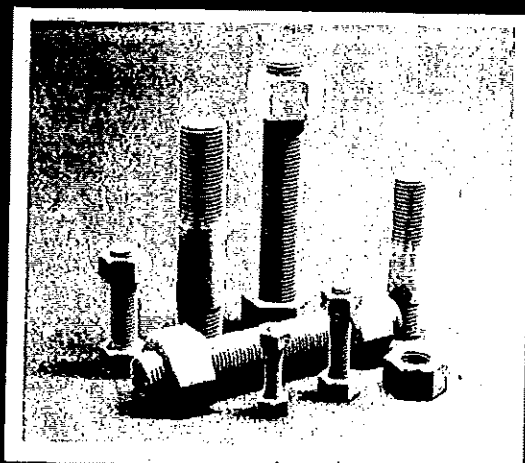
SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by item No.)

NAME AND TITLE OF APPROVING AUTHORITY

SIGNATURE OF APPROVING AUTHORITY

DATE _____



Normally used in piping and flanging operations which are subject to certain corrosive environments that do not require a high strength bolt.

ASTM A193 Grade B8 Class 1 Stud Bolts

ASTM A193 Grade B8M Class 1 Stud Bolts

MATERIAL

B8 material is equal to AISI 304 stainless steel in the solution treated condition. B8M is equal to AISI 316 stainless steel in the solution treated condition. Class 2 and other grade materials available on request.

MECHANICAL PROPERTIES

Minimum Tensile
75,000 PSI
Minimum Yield at 0.2% offset
30,000 PSI
Minimum Elongation in 2 Inches
30%
Minimum Reduction of Area
50%

MANUFACTURING TECHNIQUE

Unless specified by customer threads will be either cut or rolled. Some sizes are available as cut thread only.

DIAMETERS

1/2" to 2"

LENGTHS

2" to 144"

Diameters and lengths beyond this range can be produced on special order.

STANDARD THREADS

National Coarse threads to 1" diameter, 8 pitch UN threads 1 1/8" and larger, all class 2A fit. National Fine (NF), larger size National Coarse (NC) and other diameter pitch combinations and fits available on request. All threads per ANSI B1.1.

TESTING AND CERTIFICATION

B8 and B8M studs are available with complete chemical and mechanical test results per specification.

TSP maintains a Quality Assurance Program to provide material traceability and assure production of high quality parts.



THREADED STEEL PRODUCTS CO.

Manufacturing For The Energy Industry

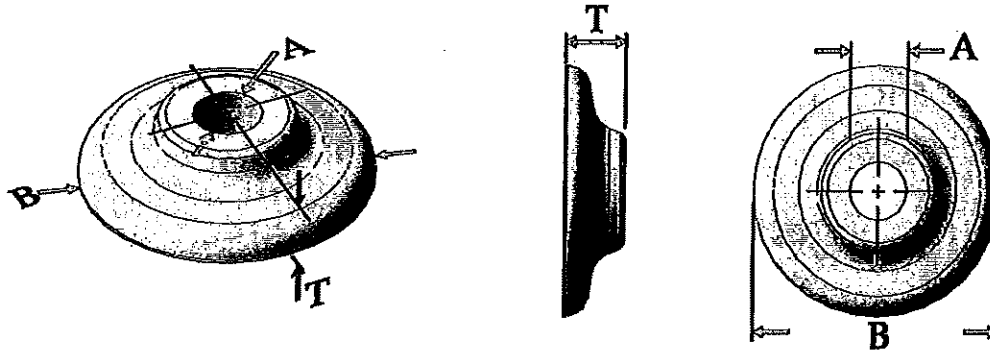
since 1946

Home Office and Plant: Box 3824 • Beaumont, Texas 77704 • (713) 842-0030 • 1-800-231-3610 (National)

Houston Branch: Box 15146 • Houston, Texas 77020 • (713) 675-5315

Sulphur Branch: Box 242 • Sulphur, Louisiana 70663 • (348) 527-8333

OGEE WASHERS



GALVANIZED OGEE WASHERS

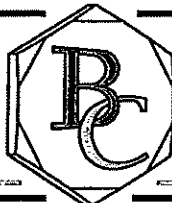
SPECIAL SIZES AVAILABLE UPON REQUEST

BOLT SIZE	OUTSIDE DIAMETER (A)	HOLE DIAMETER (B)	THICKNESS (T)	APPROX. SHIPPING WT. PER 100 PCS.	APPROX. NUMBER PER 100 LBS.
1/2"Ø	2"Ø	5/8"Ø	1/2"	27 LBS.	370 LBS.
5/8"Ø	2-3/4"Ø	3/4"Ø	5/8"	56 LBS.	179 LBS.
3/4"Ø	3"Ø	7/8"Ø	3/4"	95 LBS.	105 LBS.
7/8"Ø	3-1/2"Ø	1"Ø	7/8"	124 LBS.	81 LBS.
1"Ø	4"Ø	1-1/8"Ø	1"	180 LBS.	56 LBS.
1-1/8"Ø	4-1/4"Ø	1-1/4"Ø	1-1/8"	240 LBS.	42 LBS.
1-1/4"Ø	4-1/2"Ø	1-3/8"Ø	1-1/4"	258 LBS.	39 LBS.
1-1/2"Ø	5-1/4"Ø	1-5/8"Ø	1-1/2"	464 LBS.	22 LBS.

304/316 STAINLESS STEEL
SIZES AVAILABLE

BARRON COMPANY

TOLL FREE (888) 320-BOLT
109 20TH STREET NORTH
IRONDALE, ALABAMA 35210



PLEASE VISIT US AT
BarronNow.com

FOR A FULL LIST OF PARTS AND SPECIALS

OGEE WASHER DIMENSIONS

An ogee washer has an S-shaped curved profile. Ogee washers are typically used in dock and wood construction and have an over-sized bearing surface designed to prevent bolt heads and nuts from pulling into the wood.

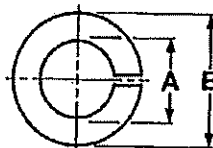
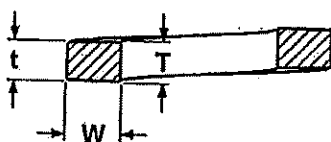
Ogee washers are 304 Stainless Steel

<i>Bolt Diameter</i>	<i>Top Diameter</i>	<i>Outside Bottom Diameter</i>	<i>Outside Thickness</i>	<i>Shipping WT per 100pcs</i>	<i>Units per 100Lbs</i>
1/2"	1-3/8"	2-3/8"	1/2"	27Lbs +/-	300 units +/-
5/8"	1-5/8"	2-3/4"	5/8"	56Lbs +/-	179 units +/-
3/4"	1-7/8"	3"	3/4"	95Lbs +/-	105 units +/-
7/8"	2"	3-1/2"	7/8"	124Lbs +/-	81 units +/-
1"	2-1/2"	4"	1"	180Lbs +/-	56 units +/-
1-1/8"	2-1/2"	4-1/4"	1-1/8"	240Lbs +/-	42 units +/-
1-1/4"	2-1/2"	4-1/2"	1-1/4"	258Lbs +/-	39 units +/-
1-1/2"	3"	5-1/2"	1-1/2"	464Lbs +/-	22 units +

Washers

Regular & High-Alloy Split

Steel & Stainless
Lockwashers



REGULAR & HIGH ALLOY HELICAL SPRING LOCKWASHERS						ASME B18.21.1-1999
Nominal Washer Size		A		B	(T+1)/2	W
		Inside Diameter		Outside Diameter	Mean Section Thickness	Section Width
		Max	Min	Max	Min	Min
#2	0.086	0.094	0.088	0.172	0.020	0.035
#3	0.099	0.107	0.101	0.195	0.025	0.040
#4	0.112	0.120	0.114	0.209	0.025	0.040
#5	0.125	0.133	0.127	0.236	0.031	0.047
#6	0.138	0.148	0.141	0.250	0.031	0.047
#8	0.164	0.174	0.167	0.293	0.040	0.055
#10	0.190	0.200	0.193	0.334	0.047	0.062
#12	0.216	0.227	0.220	0.377	0.058	0.070
1/4	0.250	0.260	0.252	0.487	0.062	0.109
5/16	0.312	0.322	0.314	0.583	0.078	0.125
3/8	0.375	0.385	0.377	0.680	0.094	0.141
7/16	0.438	0.450	0.440	0.776	0.109	0.156
1/2	0.500	0.512	0.502	0.869	0.126	0.171
9/16	0.562	0.574	0.564	0.965	0.141	0.188
5/8	0.625	0.641	0.628	1.073	0.156	0.203
3/4	0.750	0.766	0.753	1.265	0.188	0.234
7/8	0.875	0.894	0.878	1.459	0.219	0.266
1	1.000	1.024	1.003	1.656	0.250	0.297
1-1/8	1.125	1.163	1.129	1.847	0.281	0.328
1-1/4	1.250	1.280	1.254	2.036	0.312	0.369
1-3/8	1.375	1.408	1.379	2.219	0.344	0.391
1-1/2	1.500	1.534	1.504	2.419	0.375	0.422
1-3/4	1.750	1.789	1.758	2.679	0.389	0.424
2	2.000	2.039	2.008	2.936	0.422	0.427

Description	<p>Regular: A coiled, hardened, split circular washer with a slightly trapezoidal wire section.</p> <p>High-Alloy: Dimensionally identical to a regular split lock washer but made from 4037 alloy steel (sizes over 1" are equivalent to heavy split lockwashers in size and material).</p> <p>Stainless: A regular split lock washer made from austenitic stainless steel.</p>
Applications/Advantages	<p>Regular: (A) Applies greater bolt tension per unit of applied torque; (B) Provides a hardened bearing surface, creating more uniform torque control; (C) Provides more uniform load distribution; (D) Resists loosening caused by vibration and corrosion; (E) Is preferred lockwasher for use with hardened bearing surfaces.</p> <p>High-Alloy: Designed for use with Grade-5 & Grade-8 bolts and nuts.</p> <p>Stainless: For use with stainless nuts and screws of a similar stainless alloy in corrosive environments.</p>
Material	<p>Carbon Steel: SAE J403 1055 - 1065 carbon steel.</p> <p>High-Alloy Steel: 1/4 thru 1": SAE J404 4037 alloy steel; 1-1/8 thru 1-1/2": SAE J403 1055 - 1065 carbon steel</p> <p>18-8 Stainless: SAE J405 302 - 305 stainless steel.</p> <p>316 Stainless: SAE J405 316 stainless steel.</p>
Hardness	<p>Carbon & High-Alloy Steel: Rockwell C38 - 46</p> <p>Stainless: Thru 5/8": Rockwell C35 - 43; Sizes over 5/8": Rockwell C32 - 43</p>
Twist Test	<p>With the washer in a vice with the split ends free and straight above the vice jaws, a 90° segment of the free end is gripped with a wrench and bent. Washers are to withstand being twisted through a 90° angle without signs of fracture. When the washer ultimately fractures beyond the prescribed 90° limit, the structure at the breaking point shall show a fine grain.</p>
Plating	<p>See Appendix-A for information about the plating of carbon steel and alloy steel lock washers.</p>

Structural profiles—dimensions, mass, weight

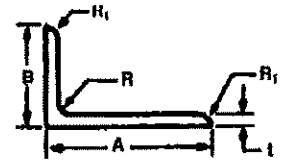


TABLE 13.6 American Standard Structural Profiles—Unequal Angles ③

A	B	t	R	R ₁	AREA ①	WEIGHT PER FOOT ② lb.
1½	¾	⅜	⅜	⅜	0.180	0.212
1½	1	½	½	½	0.267	0.314
1½	¾	⅜	⅜	⅜	0.267	0.314
1½	¾	⅜	⅜	⅜	0.386	0.454
1½	1	½	½	½	0.386	0.433
1½	1	⅜	⅜	⅜	0.583	0.662
1½	1¼	⅜	⅜	⅜	0.329	0.387
1½	1¼	⅜	⅜	⅜	0.481	0.566
1½	1½	½	½	½	0.624	0.734
1½	1½	⅜	⅜	⅜	0.358	0.421
1½	1½	⅜	⅜	⅜	0.528	0.621
1½	1½	½	½	½	0.688	0.809
2	1½	⅜	⅜	⅜	0.422	0.496
2	1½	⅜	⅜	⅜	0.622	0.731
2	1½	½	½	½	0.813	0.958
2	1½	¾	¾	¾	1.172	1.378
2½	1½	⅜	⅜	⅜	0.723	0.850
2½	1½	⅜	⅜	⅜	0.944	1.110
2½	1½	⅜	⅜	⅜	1.152	1.355
2½	2	⅜	⅜	⅜	0.554	0.652
2½	2	⅜	⅜	⅜	0.817	0.961
2½	2	⅜	⅜	⅜	1.059	1.257
2½	2	⅜	⅜	⅜	1.314	1.545
2½	2	½	½	½	1.554	1.828
3	2	⅜	⅜	⅜	0.911	1.071
3	2	⅜	⅜	⅜	1.183	1.403
3	2	⅜	⅜	⅜	1.471	1.730
3	2	⅜	⅜	⅜	1.740	2.046
3	2	⅜	⅜	⅜	2.001	2.353
3	2½	½	½	½	1.307	1.597

mechanical properties/wire, rod, bar and profiles—extruded

TABLE 11.1 Mechanical Property Limits—Extruded Wire, Rod, Bar and Profiles ③
(continued)

ALLOY AND TEMPER	SPECIFIED DIAMETER OR THICKNESS ① OR MINIMUM DISTANCE ACROSS FLATS In.	AREA sq. in.	TENSILE STRENGTH—ksi				ELONGATION ② percent min. In 2 in. or 4D ③
			ULTIMATE		YIELD		
			min.	max.	min.	max.	
6005A							
6005A-T1	Up thru 0.249	All	25.0	..	14.5	..	15
6005A-T5	Up thru 0.249	All	38.0	..	31.0	..	7
	0.250-0.999	All	38.0	..	31.0	..	9
6005A-T61	Up thru 0.249	All	38.0	..	35.0	..	8
	0.250-1.000	All	38.0	..	35.0	..	10
6061							
6061-O	All	All	..	22.0	..	16.0	16
6061-T1	Up thru 0.625	All	26.0	..	14.0	..	16
6061-T4, T4510 ④ ⑦ and T4511 ④ ⑦	All	All	26.0	..	16.0	..	16
6061-T42 ④ ⑦	All	All	26.0	..	12.0	..	16
6061-T51	Up thru 0.625	All	35.0	..	30.0	..	8
6061-T6, T62 ④ ⑦, T6510 ④ and T6511 ④	Up thru 0.249	All	38.0	..	35.0	..	8
	0.250 and over	All	38.0	..	35.0	..	10
6063							
6063-O	All	..	..	19.0	..	..	18

6xxx series—Alloys in this group contain silicon and magnesium in approximate proportions to form magnesium silicide, thus making them heat-treatable. The major alloy in this series is 6061, one of the most versatile of the heat-treatable alloys. Though less strong than most of the 2xxx or 7xxx alloys, the magnesium-silicon (or magnesium-silicide) alloys possess good formability and corrosion resistance, with medium strength. Alloys in this heat-treatable group may be formed in the T4 temper (solution heat-treated but not artificially aged) and then reach full T6 properties by artificial aging.

4.1 Basic Temper Designations

- F** as fabricated. Applies to the products of shaping processes in which no special control over thermal conditions or strain hardening is employed. For wrought products, there are no mechanical property limits.
- O** annealed. Applies to wrought products that are annealed to obtain the lowest strength temper, and to cast products that are annealed to improve ductility and dimensional stability. The O may be followed by a digit other than zero.
- H** strain-hardened (wrought products only). Applies to products that have their strength increased by strain-hardening, with or without supplementary thermal treatments to produce some reduction in strength. The H is always followed by two or more digits.
- W** solution heat-treated. An unstable temper applicable only to alloys that spontaneously age at room temperature after solution heat-treatment. This designation is specific only when the period of natural aging is indicated; for example: W ½ hr.
- T** thermally treated to produce stable tempers other than F, O, or H. Applies to products that are thermally treated, with or without supplementary strain-hardening, to produce stable tempers. The T is always followed by one or more digits.

TABLE 1.1 Nominal Chemical Composition—Wrought Alloys (concluded)

The following values are shown as a basis for general comparison of alloys and are not guaranteed. Refer to Standards Section, Table 6.2, for composition limits.

PERCENT OF ALLOYING ELEMENTS—Aluminum and Normal Impurities Constitute Remainder								
Alloy	Silicon	Copper	Manganese	Magnesium	Chromium	Nickel	Zinc	Titanium
6003	0.7	..	..	1.2	..	..	..	..
6005	0.8	..	..	0.50	..	..	..	..
6005A [®]	0.7	..	..	0.55	..	..	..	..
6053	0.7	..	..	1.2	0.25	..	..	..
6061	0.6	0.28	..	1.0	0.20	..	..	..
6063	0.40	..	..	0.7	..	..	..	..



St. Charles Parish
LaBranche Salinity
Barrier Project PO-43a

September 19, 2016

TRANSMITTAL SHEET

Transmittal #013

To:
Stanley Consultants, Inc.
Attn: Jim Smith
721 Government Street
Baton Rouge, Louisiana 70802
Tel: 225-388-4208

From:
DQSI, LLC
19218 North 5th Street
Covington, LA 70433
Tel: (985) 871-7472 Ext 211
Fax: (985) 259-8789

Project:
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GIWW To Clovelly Hydrologic Restoration
2015 Maintenance
Lafourche Parish
Little Lake

Contract Number:
Project No. (BA-02)

Submittal #	Copies	Submittal Description	Section #	Paragraph
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015	1	Warning Sign Hardware	TS-5	5.2.2 & 5.3

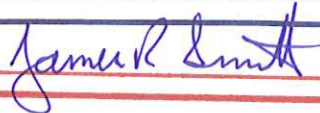

Stanley E. Lee
DQSI, LLC

- ☒ Reviewed & Approved
- ☐ Reviewed & Approved As Noted
- ☐ Resubmit
- ☐ Rejected

Stanley Consultants, Inc.
721 Government Street, Ste 302, Baton Rouge, LA 70802

Review is only for general conformance with design concept of project and general compliance with the Contract Documents. Contractor is responsible for confirming and correlating dimensions at job site; for information that pertains to fabrication process or construction techniques, and for coordination of work of all trades. Review of shop drawings shall not relieve Contractor, any Subcontractor, and/or Material Supplier of responsibility for deviation from requirements of Contract Documents nor for errors or omissions in shop drawings. The governing local jurisdiction(s) or entity(s) must approve this shop drawing submittal for compliance with the current approved project list, where applicable.

Reviewed by:



Date: 23 Sep 16

**TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR
MANUFACTURER'S CERTIFICATES OF COMPLIANCE**

For use of this form, see ER 415-1-10; the proponent agency is CECMCE.


DATE
2016-09-12

TRANSMITTAL NO.
TS-5

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by the contractor)

TO:	FROM:	CONTRACT NO.	CHECK ONE: <input checked="" type="checkbox"/> THIS IS A NEW TRANSMITTAL <input type="checkbox"/> THIS IS A RESUBMITTAL OF TRANSMITTAL
Stanley Lee DQSI, LLC 19281 North 5th Street Covington, LA 70433	Joel McLain APC Construction, LLC 400 Lafayette Street, Suite 100 New Orleans, LA 70130	BA-02	

SPECIFICATION SEC. NO. (Cover only one section with each transmittal)	PROJECT TITLE AND LOCATION	THIS TRANSMITTAL IS FOR: (Check one)
TS-Warning Signs	GITW to Clovelly Hydrologic Restoration	<input type="checkbox"/> FIO <input checked="" type="checkbox"/> GA <input type="checkbox"/> DA <input type="checkbox"/> CR <input type="checkbox"/> DACR <input type="checkbox"/> DAGA

ITEM NO. (See Note 3)	DESCRIPTION OF SUBMITTAL ITEM (Type size, model number/etc.)	SUBMITTAL TYPE CODE (See Note 8)	NO. OF COPIES	CONTRACT DOCUMENT REFERENCE		CONTRACTOR REVIEW CODE	VARIATION Enter "Y" if requesting a variation (See Note 6)	USAGE ACTION CODE (Note 9)
				SPEC. PARA. NO.	DRAWING SHEET NO.			
1	Warning Signs: Signs	SD-02	1			A		
	DQSI							
	Approved							
	Approved with corrections as noted on							
	Submittal data and/or sheet(s)							
	SIGNATURE: 							
	TITLE: Project Manager							
	DATE: 9-19-16							

I certify that the above submitted items had been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.

REMARKS	NAME OF CONTRACTOR	SIGNATURE OF CONTRACTOR
	APC Construction, LLC	Joel McLain <small>Digitally signed by Joel McLain, Date: 2016.09.12 08:23:01 -0500</small>

ENCLOSURES RETURNED (List by item No.)

NAME AND TITLE OF APPROVING AUTHORITY

SIGNATURE OF APPROVING AUTHORITY

DATE

Page 1 of 2

SIGN SPECS

Size (W x H)

48 x 48

Radius Corners Rounded

Hole Size none

Location _____

SUBSTRATE

Aluminum ☒

Steel ☐

Coroplast ☐

Magnetic ☐

Other _____

Thickness 1875

Single face ☒

Double face ☐

BORDER

Edge ☒ 2" Orange
Engineer
Border
As Shown

FONT USED

FHWA Series D

SHEETING

Engineer Grade ☐

High Intensity ☒

Super HIR ☐

Diamond Grade ☐

Other _____

Color:

White ☒ Green ☐

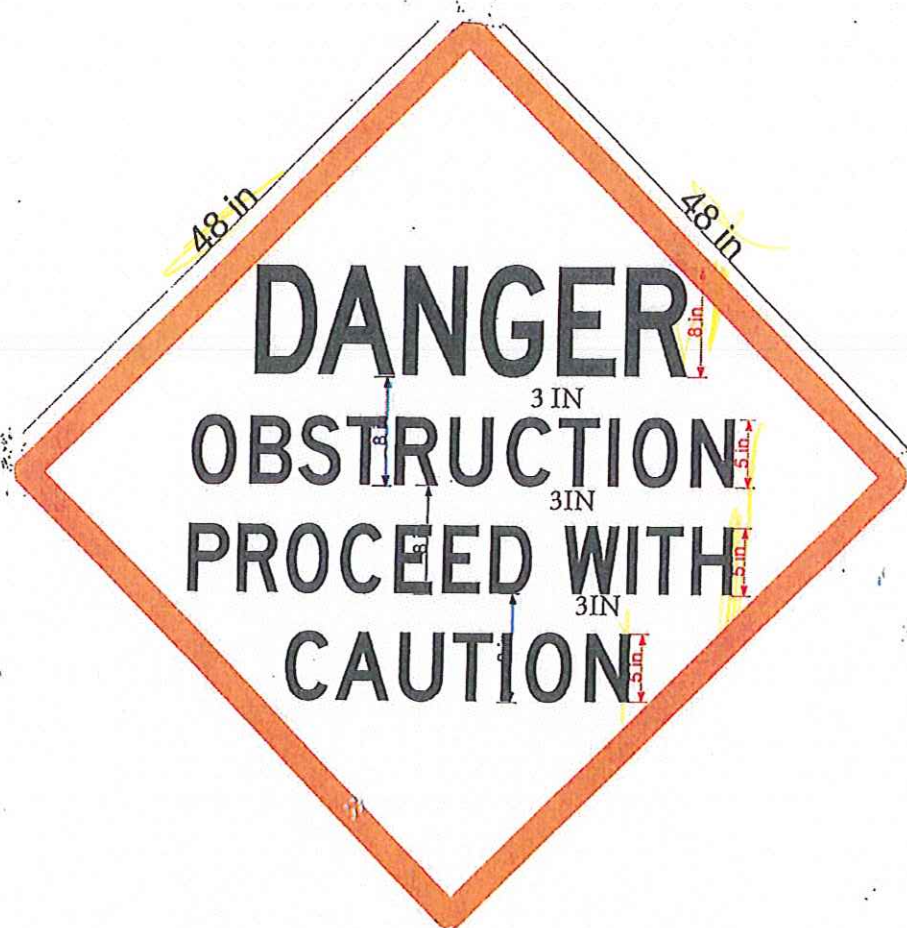
Orange ☐ Yellow ☐

Blue ☐ Red ☐

Brown ☐ Gold ☐

Other _____

Version 2



By approving this paper pattern with your signature, or your "APPROVED" response, you accept responsibility and are allowing us to proceed according to your instructions.

Description: 48x48 Black on White HIP with 2" Orange Engineer Border, .1875 aluminum, No Holes,

PO# QUOTE - STEVE

Job No.: 299898

Order Date:

Layout By:

Printed On:

9/12/16

Customer: Traffic Control

file name is 299898 Danger Obstruction.fs

Plant Manager Initials:

Production Mgr. Initials:

Sales Person Initials:

Salesperson

KW

NO ORDER for Custom Artwork
Can Be Processed Without
Authorized Signature Of Approval.

By Signing, I Indicate That
All Aspects of The Depicted Artwork
Are Correct And As Specified.

X

ATTACHMENT F
CHANGE ORDERS/FIELD ORDERS

CHANGE ORDER

No. 1

Dated January 23, 2017

OWNER's P.O. No. 2000181730

ENGINEER's Project No. 25455.03.00

GIWW to Clovelly Hydrologic Restoration (BA-02)
2015 Maintenance Project
Project: Lafourche Parish, Louisiana

CONTRACTOR DQSI, LLC

Contract For Shoreline Protection & Restoration

Contract Date 06/2/2016

To: DQSI, LLC

CONTRACTOR

You are directed to make the changes noted below in the subject Contract:

Coastal Protection and Restoration Authority

OWNER

By [Signature]

Dated January 23, 2017

Nature of the Changes:

Add an additional 92 days to the contract time. At the June 14th pre-construction meeting DQSI handed SCI's Project Manager and the Owner an email from Mr. Sholar (Entergy) where he explained that power outages were not granted until September at the earliest. DQSI requested a time extension until the 1st of September 2016 based on the fact that the project could not begin until then.

Enclosures:

Entergy's email to DQSI

These changes result in the following adjustment of Contract Price and Contract Time:

Contract Price Prior to This Change Order	\$ <u>1,457,850.16</u>
Net (Increase) (Decrease) Resulting from this Change Order	\$ <u>0.00</u>
Current Contract Price Including This Change Order	\$ <u>1,457,850.16</u>

CHANGE ORDER

No. 1

Contract Time Prior to This Change Order 120 days – September 29, 2016
(Days or Date)
Net Increase Resulting from This Change Order 92 days
(Days)
Current Contract Time Including This Change Order 212 days – December 30, 2016
(Days or Date)

The Above Changes Are Approved:

..... Stanley Consultants, Inc.
ENGINEER

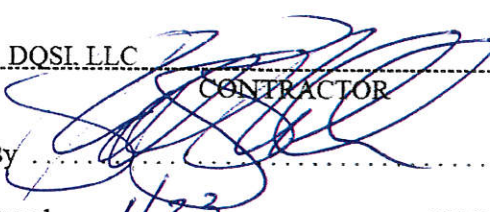
By 
Jacob M. Loeske, PE, LSI

Dated January 23, 2017

Contractor acknowledges that the values set forth in this change order include any and all claims for additional compensation due to equitable adjustment resulting from any addition, deletion or revision in the Work, or changes in contract time.

The Above Changes Are Accepted:

..... DQSI LLC
CONTRACTOR

By 
Dated 1/23, 2017

Loeske, Jacob

From: SHOLAR, JAMES D <JSHOLAR@entergy.com>
Sent: Tuesday, March 22, 2016 4:01 PM
To: Stanley Lee
Cc: Martin Klein
Subject: RE: Power Line De-Energizing
Attachments: Barataria to Golden Meadow .kmz; MASTER_ELL_EGSL_ENOI_Temporary Outage Agreement.pdf; Clearance training powersafe May 2 2013.pptx

Stanley,

Entergy 115,000kV transmission line

Attachment 01 is Google Earth with Entergy line and structure numbers

Attachment 02 is the outage agreement with cost

Attachment 03 an on line Clearance Training Powersafe course is required if an outage is requested

- No less than a six weeks' notice for a scheduled outage
- No outage will be granted during summer months
 - From the end of the second week of June to the end of August an outage will not be granted (This could be extended or decreased either way; weather conditions and temp. will determine that)
 - Beginning and end of each year is the best chance of getting an outage on this line

Energized line:

- Crossing under (non-stop) 10ft (Barge, Crane, Tug, etc...)
- Working near 20ft (Barge, Crane, Tug, etc...)
- Worst case (Mid-span) from Entergy conductor (wire) to water: (Not 100% accurate do to tidal change)
 - Between structures 107 and 106 (worst case is 24ft)
 - Between structures 103 and 102 (worst case is 30ft)

What is the maximum time that the line can be de-energized?

- Normally max is around 2 weeks (Working weekend)
 - * What is the duration you looking for:
 - One day to push in under line and another date to push back under line.
 - One week Monday to Friday, Two week Monday to Friday

What is meant by "Hold Back Lines"?

- The de-energized Entergy conductor that could be located directly above your work site. Under normal working conditions, we would set a truck up at your work location, grab the conductor and hold back as far as possible and then you would work your project.
Please keep in mind that this is not a normal project and your cost of \$8,500.00 a day to complete this task would dramatically increase. Entergy would add additional cost of a barge, tug, etc.

From: Stanley Lee [mailto:stanley@dqsi.com]
Sent: Thursday, March 17, 2016 10:59 AM
To: SHOLAR, JAMES D
Cc: Martin Klein; Stanley Lee
Subject: RE: Power Line De-Energizing

Mr. Sholar,

We will be passing between poles:

106 – 107 and

102 – 103.

What are the “summer” months that we can’t get an outage?

Stanley Lee

From: SHOLAR, JAMES D [<mailto:JSHOLAR@entergy.com>]

Sent: Wednesday, March 16, 2016 5:39 PM

To: Stanley Lee <stanley@dgsi.com>

Cc: Martin Klein <martin@dgsi.com>

Subject: RE: Power Line De-Energizing

Stanley,

Entergy 115,000kV transmission line

Attachment 04 is Google Earth with Entergy line and structure numbers

Attachment 05 is the outage agreement with cost

- No less than a six weeks’ notice for a scheduled outage.
- No outage will be granted during summer months.

Energized line:

- Crossing under (non-stop) 10ft
- Working near 20ft

Worst case from Entergy conductor (wire) to ground: We need to know the location(s) of where you would like to passing under the line. (Barge, Tub, etc...)

Thanks,

Jimmy Sholar

Operations Coordinator

Entergy Louisiana, LLC

Entergy New Orleans, Inc.

Southeast Louisiana Transmission Grid

jsholar@entergy.com

Office: Internal 8-569-4204

External 504-219-4204

Cell: 504-615-5540

Fax: 504-219-4301

From: Stanley Lee [<mailto:stanley@dgsi.com>]

Sent: Thursday, March 10, 2016 1:36 PM

To: SHOLAR, JAMES D

Cc: Martin Klein; Stanley Lee

Subject: Power Line De-Energizing
Importance: High

EXTERNAL SENDER. DO NOT click links if sender is unknown. DO NOT provide your user ID or password.

Mr. Sholar,

We are bidding on the, "GIWW to Clovelly Hydrologic Restoration 2016 Maintenance Project (BA-02)" in Lafourche Parish (Bay L'Ours). We have a bid item "De-Energize Power Lines" in our bid package. Therefore, I have a couple of questions for you as you are the named contact.

What is the cost to de-energize and then re-energize the power line in the project area?

Also, what clearance is required not to have to de-energize the power lines? As we will be bringing in many tugs and barges loaded with rip-rap. Is it required for draglines/cranes only? Barge with excavators? All tugs?

Please clarify as to when we will need a de-energization. How long can the lines be de-energized? Can they be down for a few couple of weeks while we do the work?

See attached photos of the proposed work areas.

The red lines are where the rock dike (rip-rap) will be built/placed.

Thank you,
Stanley Lee

DQSI, LLC
19218 North 5th Street
Covington, LA 70433

Phone: 985-871-7472 ext 211
Fax: 985-259-8789

CHANGE ORDER

No. 2

Dated March 1, 2017

OWNER's P.O. No. 2000181730

ENGINEER's Project No. 25455.03.00

GIWW to Clovelly Hydrologic Restoration (BA-02)
2015 Maintenance Project
Project: Lafourche Parish, Louisiana

CONTRACTOR DQSI, LLC

Contract For Shoreline Protection & Restoration

Contract Date 06/2/2016

To: DQSI, LLC

CONTRACTOR

You are directed to make the changes noted below in the subject Contract:

Coastal Protection and Restoration Authority

OWNER

By [Signature]

Dated 3/13/, 2017

Nature of the Changes:

Add an additional 88 days to the contract time due to delays in Entergy Powerline De-energization.

Enclosures:

None.

These changes result in the following adjustment of Contract Price and Contract Time:

Contract Price Prior to This Change Order \$ 1,457,850.16

Net (Increase) (Decrease) Resulting from this Change Order \$ 0.00

Current Contract Price Including This Change Order \$ 1,457,850.16

CHANGE ORDER

No. 2

Contract Time Prior to This Change Order 212 days – December 30, 2016
(Days or Date)
Net Increase Resulting from This Change Order 88 days
(Days)
Current Contract Time Including This Change Order 300 days – March 28, 2017
(Days or Date)

The Above Changes Are Approved:

..... Stanley Consultants, Inc.

ENGINEER

By

Jacob M. Loeske, PE, LSI

Dated March 1, 2017

Contractor acknowledges that the values set forth in this change order include any and all claims for additional compensation due to equitable adjustment resulting from any addition, deletion or revision in the Work, or changes in contract time.

The Above Changes Are Accepted:

..... DOSI LLC

CONTRACTOR

By

Dated 3/1, 2017

CHANGE ORDER

No. 3

Dated March 14, 2017

OWNER's P.O. No. 2000181730

ENGINEER's Project No. 25455.04.00

GIWW to Clovelly Hydrologic Restoration (BA-02)
2015 Maintenance Project
Project: Lafourche Parish, Louisiana

CONTRACTOR DQSI, LLC

Contract For Shoreline Protection & Restoration

Contract Date 06/2/2016

To: DQSI, LLC

CONTRACTOR

You are directed to make the changes noted below in the subject Contract:

Coastal Protection and Restoration Authority

OWNER

By B. Bu

Dated 4/12/17, 2017

Nature of the Changes:

Add an additional 38 days to the contract time due to delays in Entergy Powerline De-energization.

Enclosures:

DQSI Request For a Change Order (RCO) #3.

These changes result in the following adjustment of Contract Price and Contract Time:

Contract Price Prior to This Change Order \$ 1,457,850.16

Net (Increase) (Decrease) Resulting from this Change Order \$ 0.00

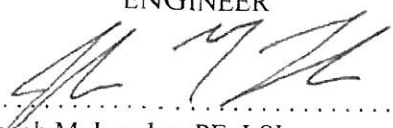
Current Contract Price Including This Change Order \$ 1,457,850.16

CHANGE ORDER

No.3.

Contract Time Prior to This Change Order 300 days — March 28, 2017
(Days or Date)
Net Increase Resulting from This Change Order 38 days
(Days)
Current Contract Time Including This Change Order 338 days — May 5, 2017
(Days or Date)

The Above Changes Are Approved:

..... Stanley Consultants, Inc.
ENGINEER
By 
Jacob M. Loeske, PE, LSI

Dated March 14, 2017

Contractor acknowledges that the values set forth in this change order include any and all claims for additional compensation due to equitable adjustment resulting from any addition, deletion or revision in the Work, or changes in contract time.

The Above Changes Are Accepted:

..... DQSI, LLC
CONTRACTOR
By 
Dated 3/14, 2017

ATTACHMENT H
SUBSTANTIAL COMPLETION

CERTIFICATE OF SUBSTANTIAL COMPLETION

GIWW to Clovelly Hydrologic Restoration (BA-02)
2015 Maintenance Project
PROJECT Lafourche Parish, Louisiana

DATE OF ISSUANCE May 30, 2017

OWNER Coastal Protection and Restoration Authority

OWNER's Contract No. 2000181730

ENGINEER's Project No. 25455.04.00

CONTRACTOR DQSI, LLC

ENGINEER Stanley Consultants, Inc.

This Certificate of Substantial Completion applies to all Work under the Contract Documents or to the following specified parts thereof:

All work performed in accordance with contract plans and specifications.

To Coastal Protection and Restoration Authority

OWNER

And To DQSI, LLC

CONTRACTOR

The work to which this Certificate applies has been inspected by authorized representatives of OWNER, CONTRACTOR and ENGINEER, and that Work is hereby declared to be substantially complete in accordance with the Contract Documents on

May 12, 2017
DATE OF SUBSTANTIAL COMPLETION

A tentative list of items to be completed or corrected is included herewith. This list may not be all-inclusive, and the failure to include an item in it does not alter the responsibility of CONTRACTOR to complete all the Work in accordance with the Contract Documents. The items in the tentative list shall be completed or corrected by CONTRACTOR within 60 days of the above date of Substantial Completion.

The following document is attached to and made a part of this Certificate:

- “Compliance Survey” of Rock Dock overlaid onto the pre-construction survey. Note: This does not serve as the specified As-Built Survey deliverable to satisfy construction closeout requirements.
-

Punch List Items (in no particular/priority order):

1. Remove all staking and metal fabric pins
 - NOTE: some metal pins are submerged
2. Cut fabric to specification
3. Pull Temporary Piles
4. Replace broken Permanent Pile and Sign
5. Replace damaged Permanent Signs (sticker torn or sign bent)
6. Push riprap that is out of template into template without damaging the lake bottom or fabric (two locations noted)
7. Remove Spoil and backfill the floatation channel
8. Recover any dropped signs or other debris from construction of our project

[For items to be attached see definition of Substantial Completion as supplemented and other specifically noted conditions precedent to achieving Substantial Completion as required by Contract Documents.]

This certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of CONTRACTOR’s obligation to complete the Work in accordance with the Contract Documents.

Executed by ENGINEER on May 30, 2017

..... Stanley Consultants, Inc.

ENGINEER

By: 

(Authorized Signature)

CONTRACTOR accepts this Certificate of Substantial Completion on, 2017

..... DQSI, LLC.

CONTRACTOR

By:

(Authorized Signature)

OWNER accepts this Certificate of Substantial Completion on, 2017

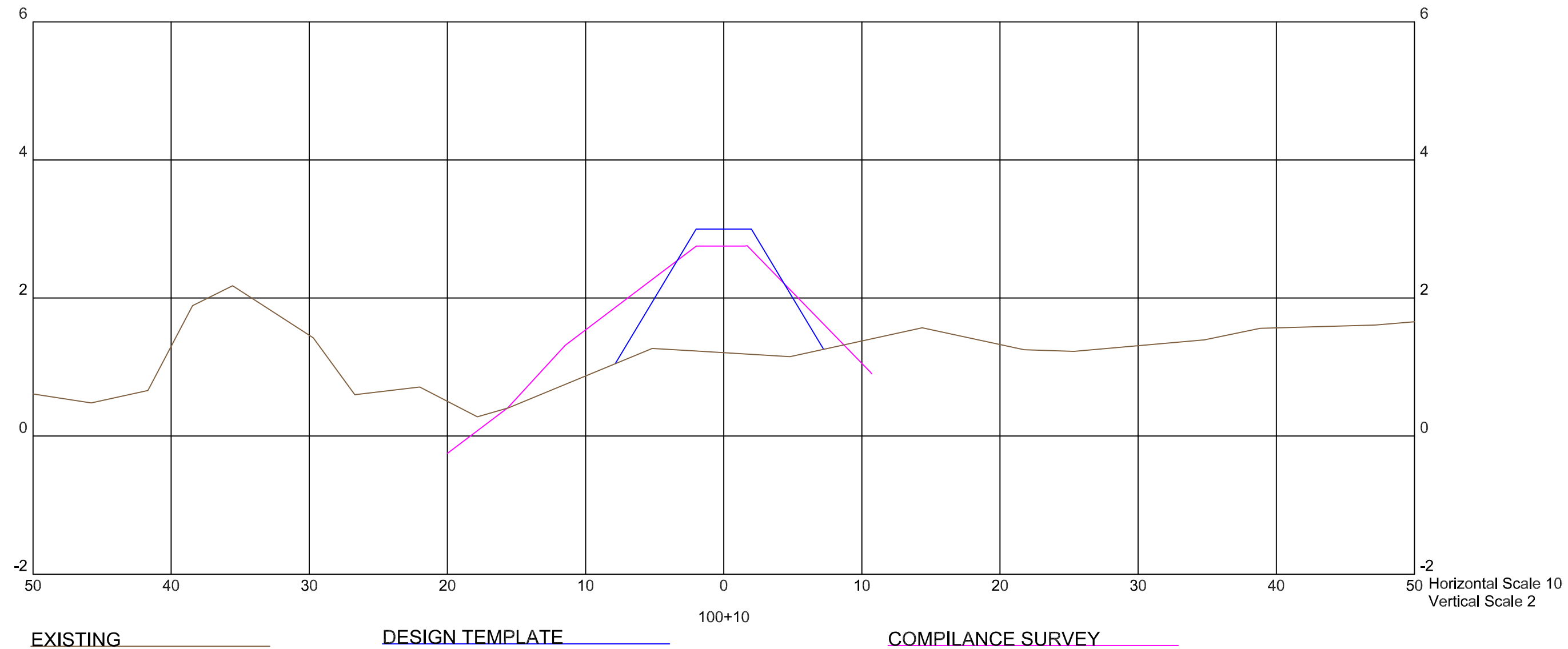
..... Coastal Protection and Restoration Authority

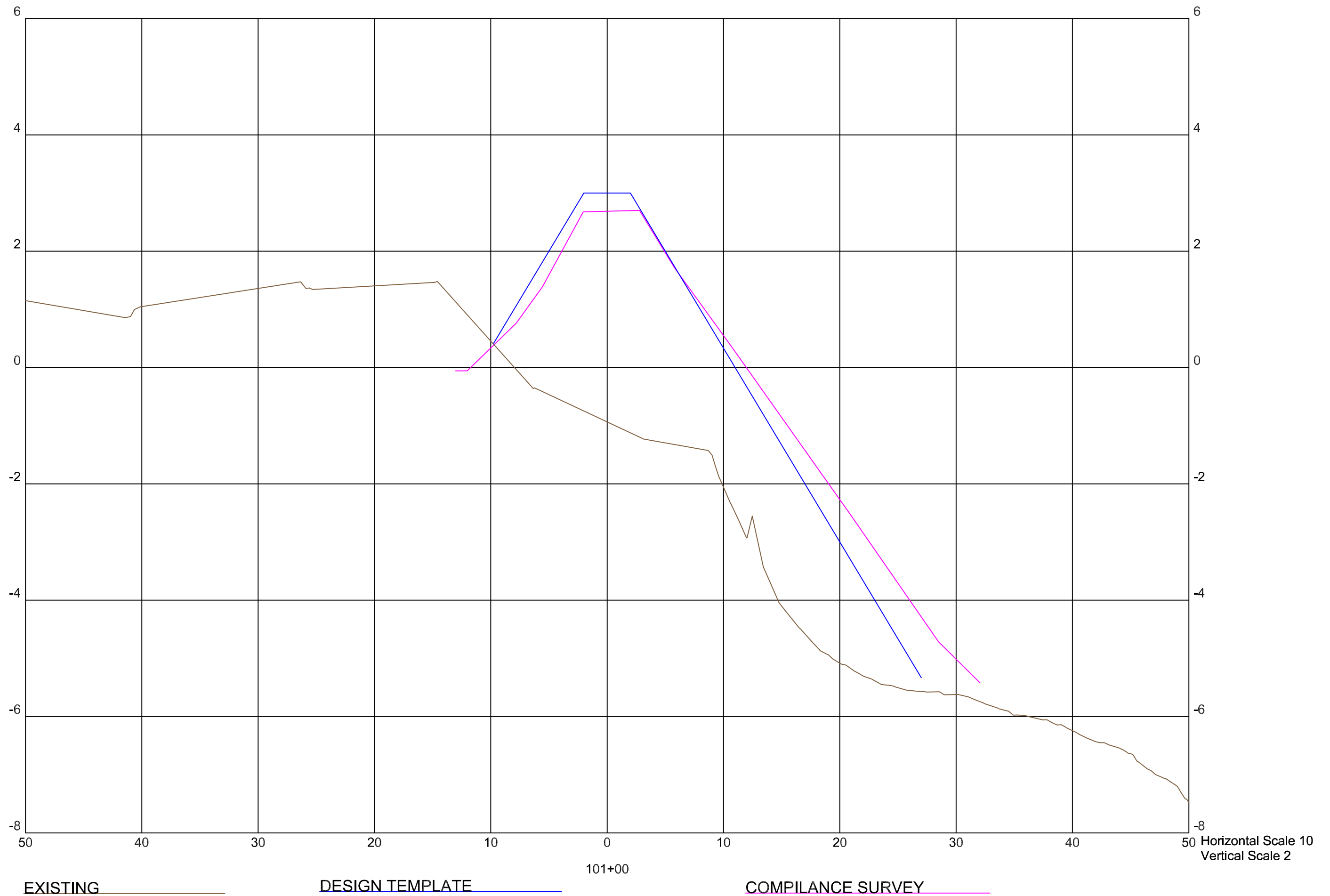
OWNER

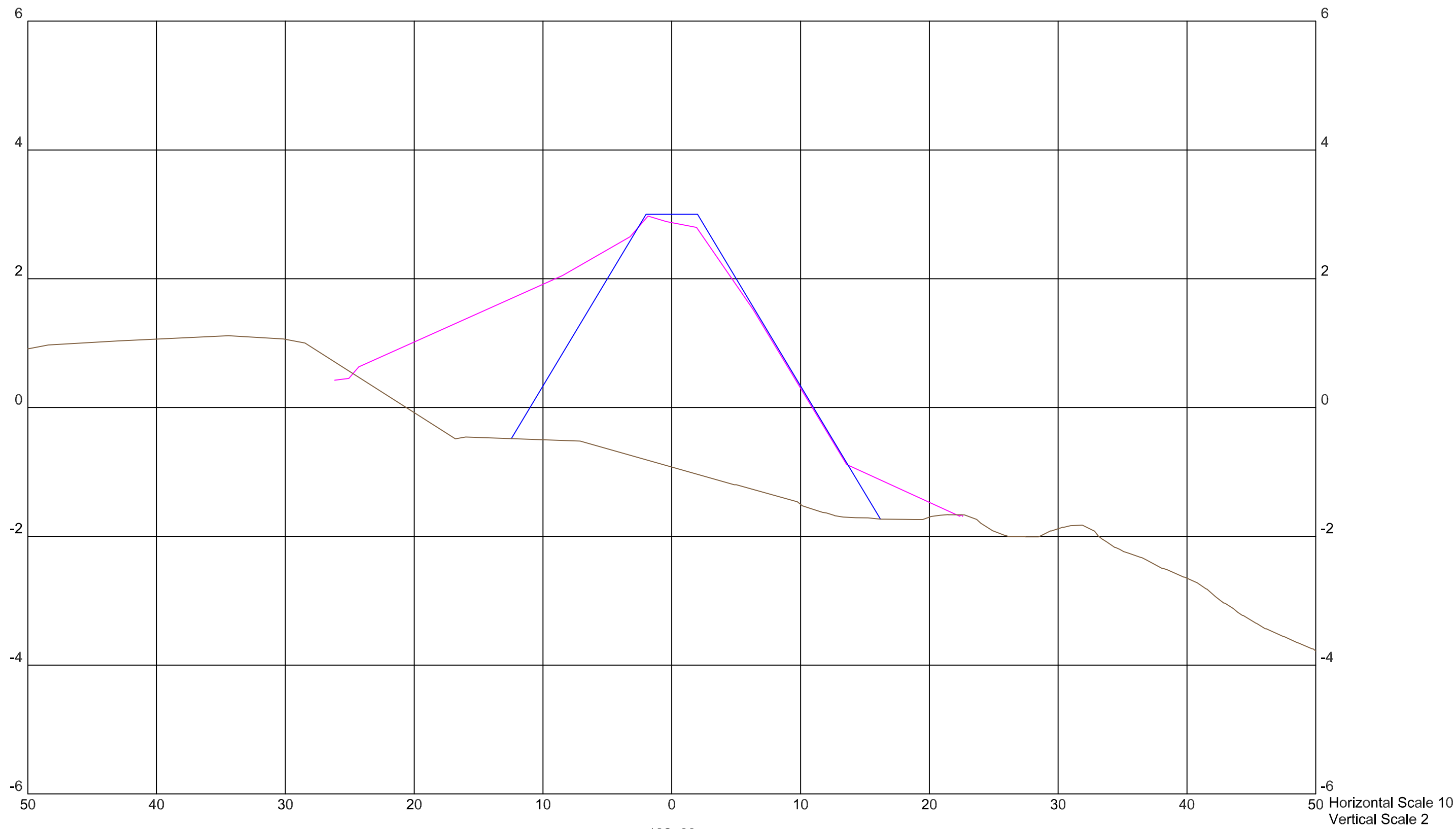
By:

(Authorized Signature)

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE For use of this form, see ER 415-1-10; the proponent agency is CECW-CE.					DATE 5/18/2017		TRANSMITTAL NO. TS-2	
SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS <i>(This section will be initiated by the contractor)</i>								
TO: Stanley Lee DQSI, LLC 19218 North 5th Street Covington, LA 70433			FROM: Joel McLain APC Construction, LLC 400 Lafayette Street, Suite 100 New Orleans, LA 70130			CONTRACT NO. BA-02		CHECK ONE: <input checked="" type="checkbox"/> THIS IS A NEW TRANSMITTAL <input type="checkbox"/> THIS IS A RESUBMITTAL OF TRANSMITTAL _____
SPECIFICATION SEC. NO. <i>(Cover only one section with each transmittal)</i> TS-2 Surveying			PROJECT TITLE AND LOCATION GIWW to Clovelly Hydrologic Restoration			THIS TRANSMITTAL IS FOR: <i>(Check one)</i> <input type="checkbox"/> FIO <input checked="" type="checkbox"/> GA <input type="checkbox"/> DA <input type="checkbox"/> CR <input type="checkbox"/> DA/CR <input type="checkbox"/> DA/GA		
ITEM NO. <i>(See Note 3)</i> a.	DESCRIPTION OF SUBMITTAL ITEM <i>(Type size, model number/etc.)</i> b.	SUBMITTAL TYPE CODE <i>(See Note 8)</i> c.	NO. OF COPIES d.	CONTRACT DOCUMENT REFERENCE		CONTRACTOR REVIEW CODE g.	VARIATION Enter "Y" if requesting a variation <i>(See Note 6)</i> h.	USACE ACTION CODE <i>(Note 9)</i> i.
				SPEC. PARA. NO. e.	DRAWING SHEET NO. f.			
1	Compliance As- Built Surveys	SD-01	1	2.3				
REMARKS				I certify that the above submitted items had been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.				
				APC Construction, LLC NAME OF CONTRACTOR			Joel McLain	
SECTION II - APPROVAL ACTION								
ENCLOSURES RETURNED <i>(List by item No.)</i>			NAME AND TITLE OF APPROVING AUTHORITY			SIGNATURE OF APPROVING AUTHORITY		DATE



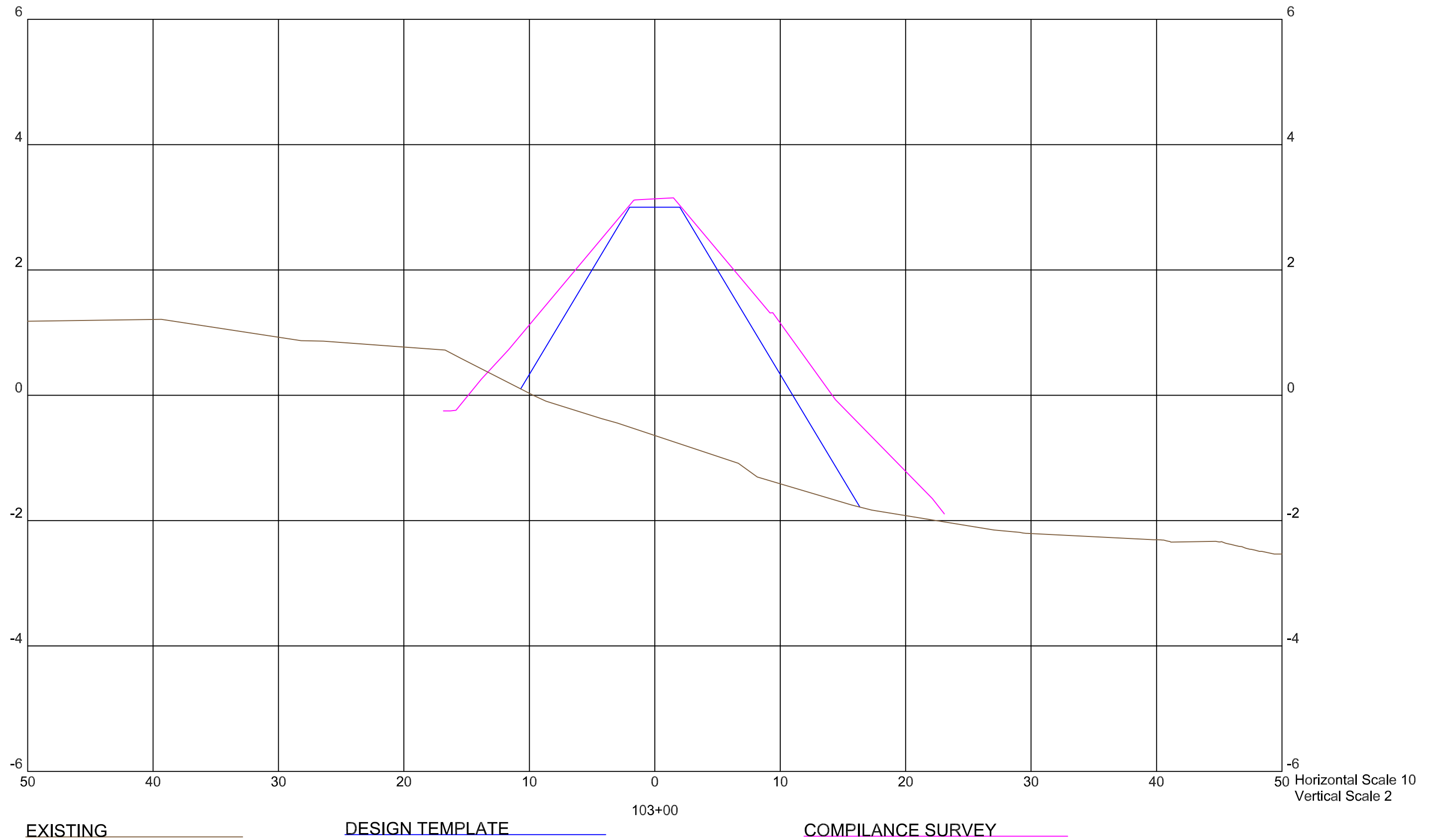


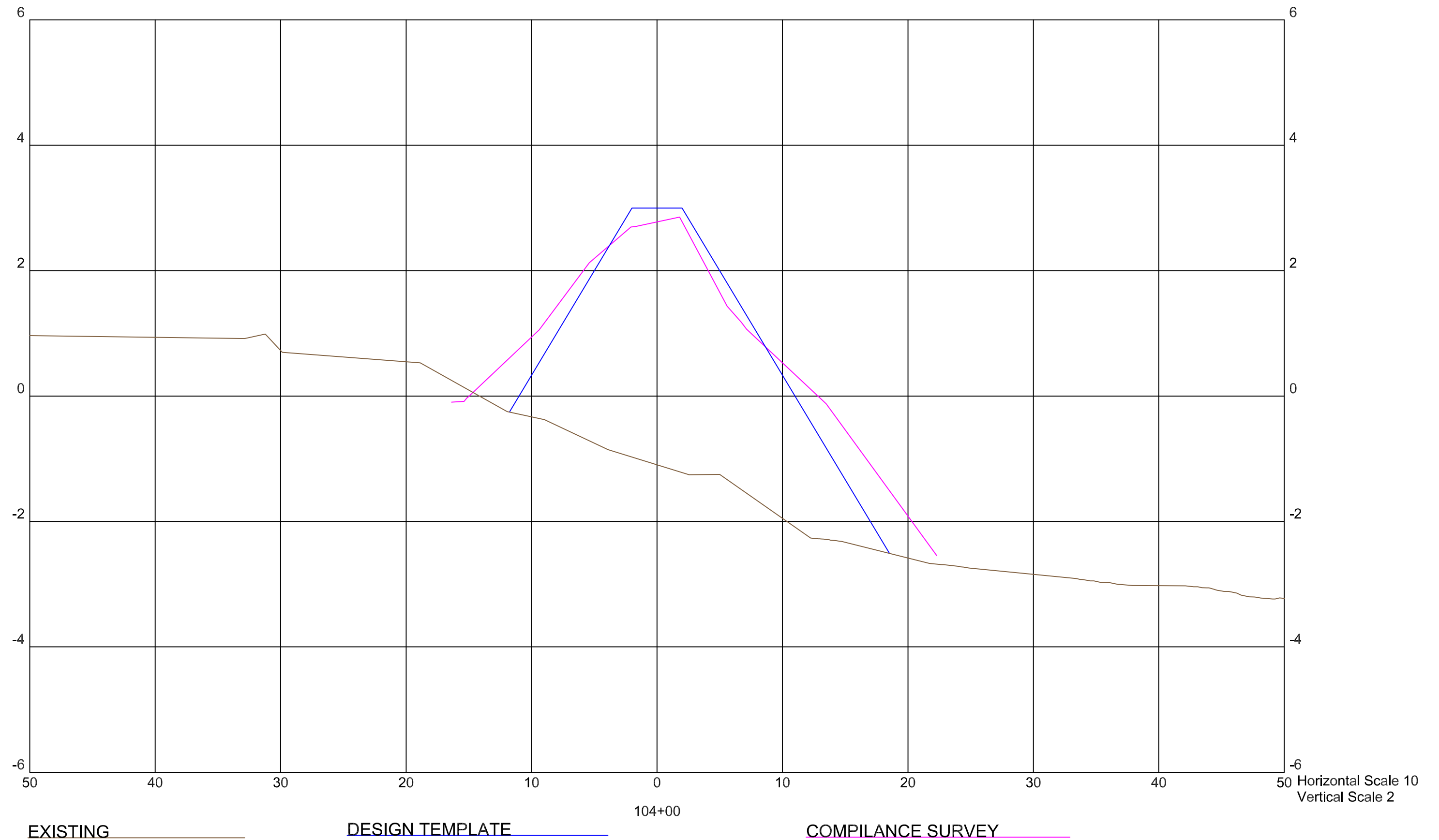


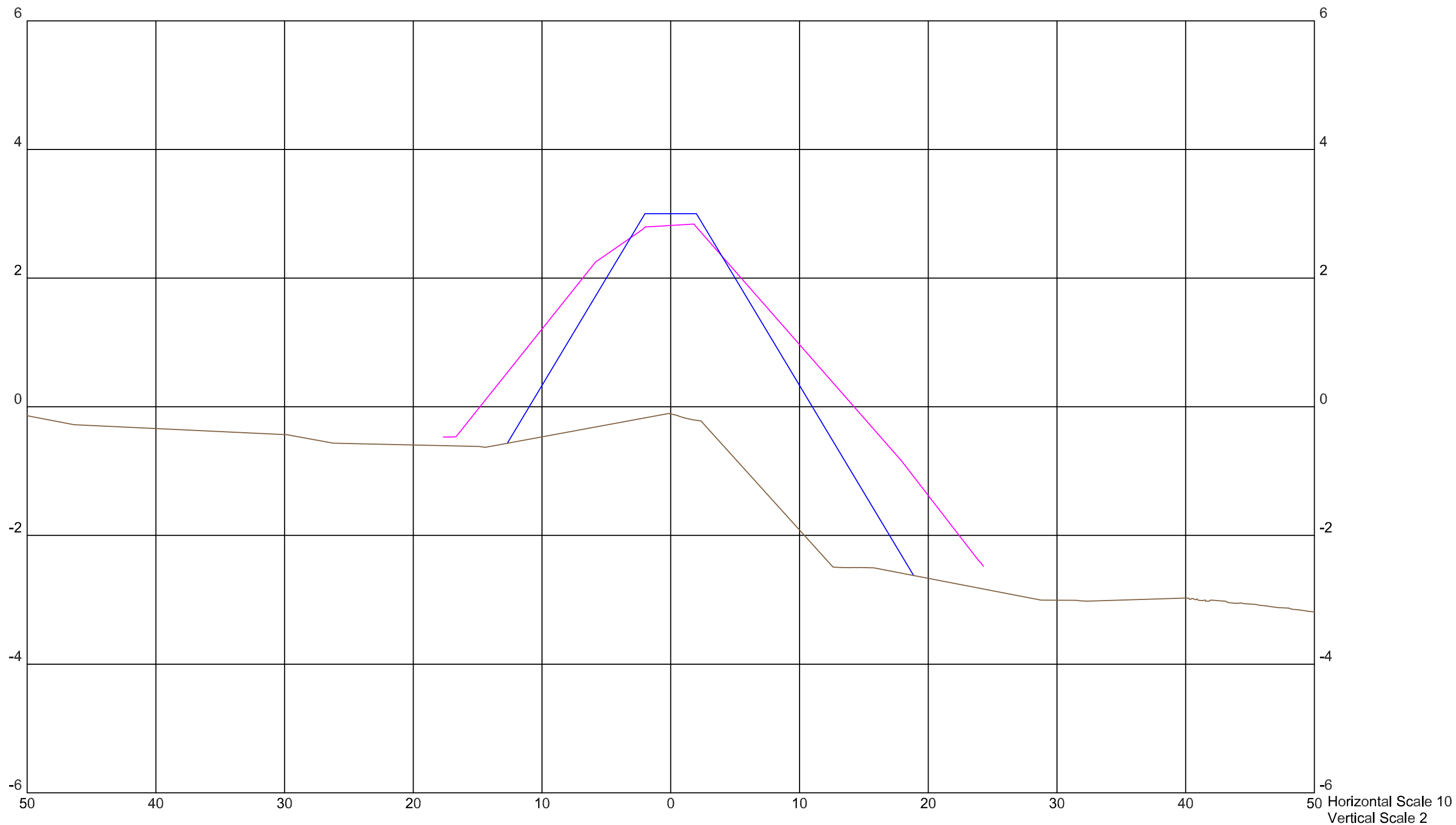
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COMPLIANCE SURVEY



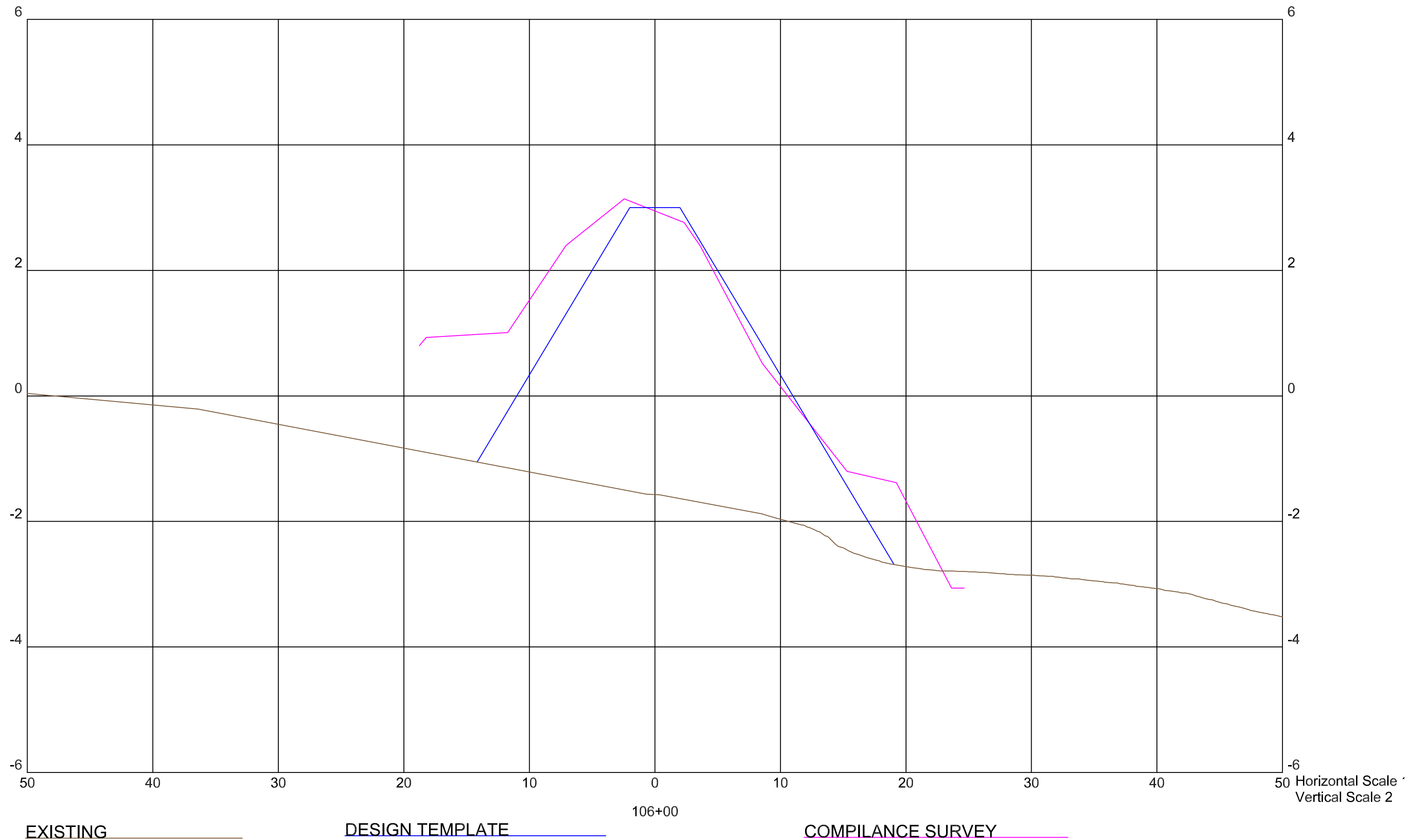


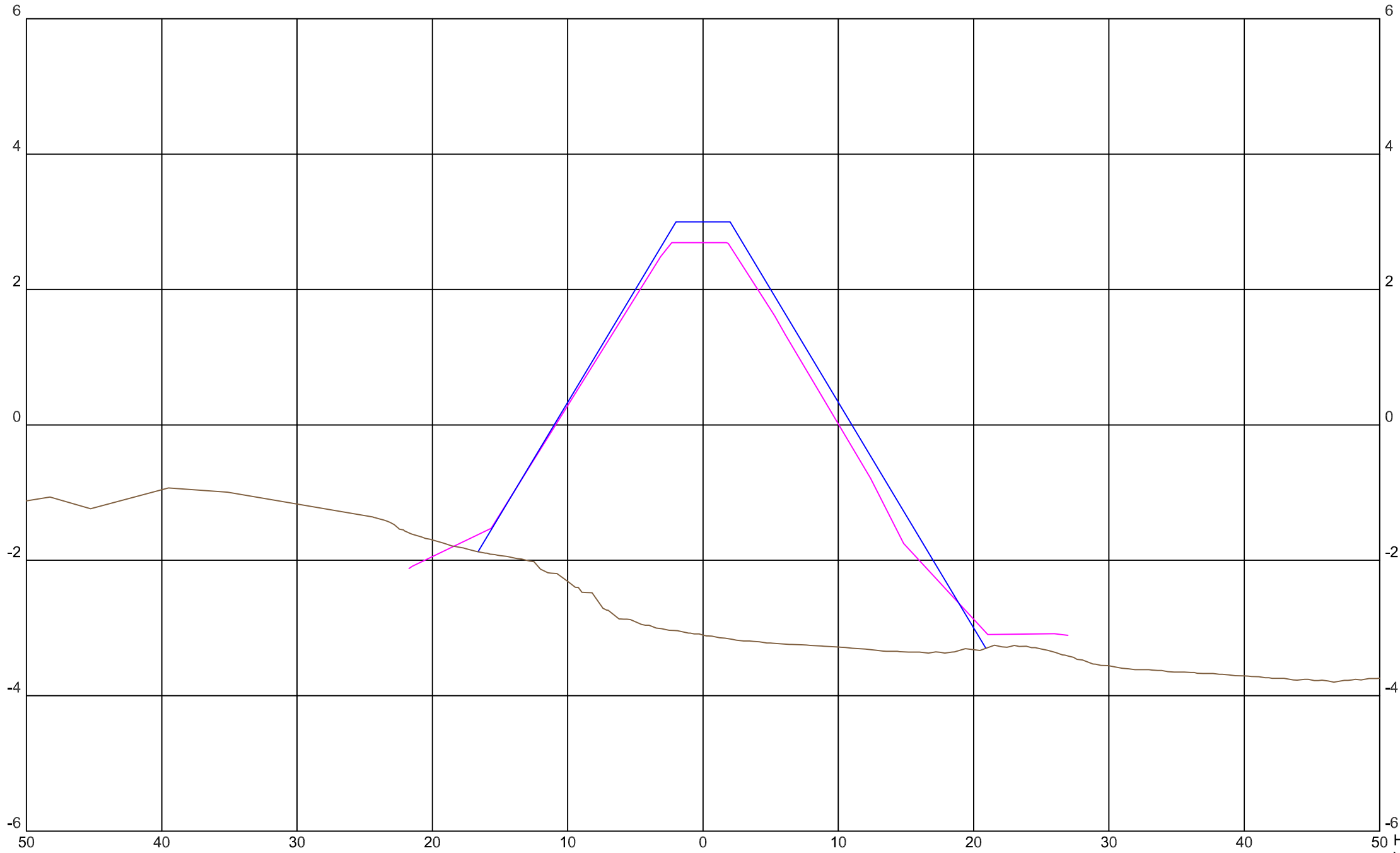


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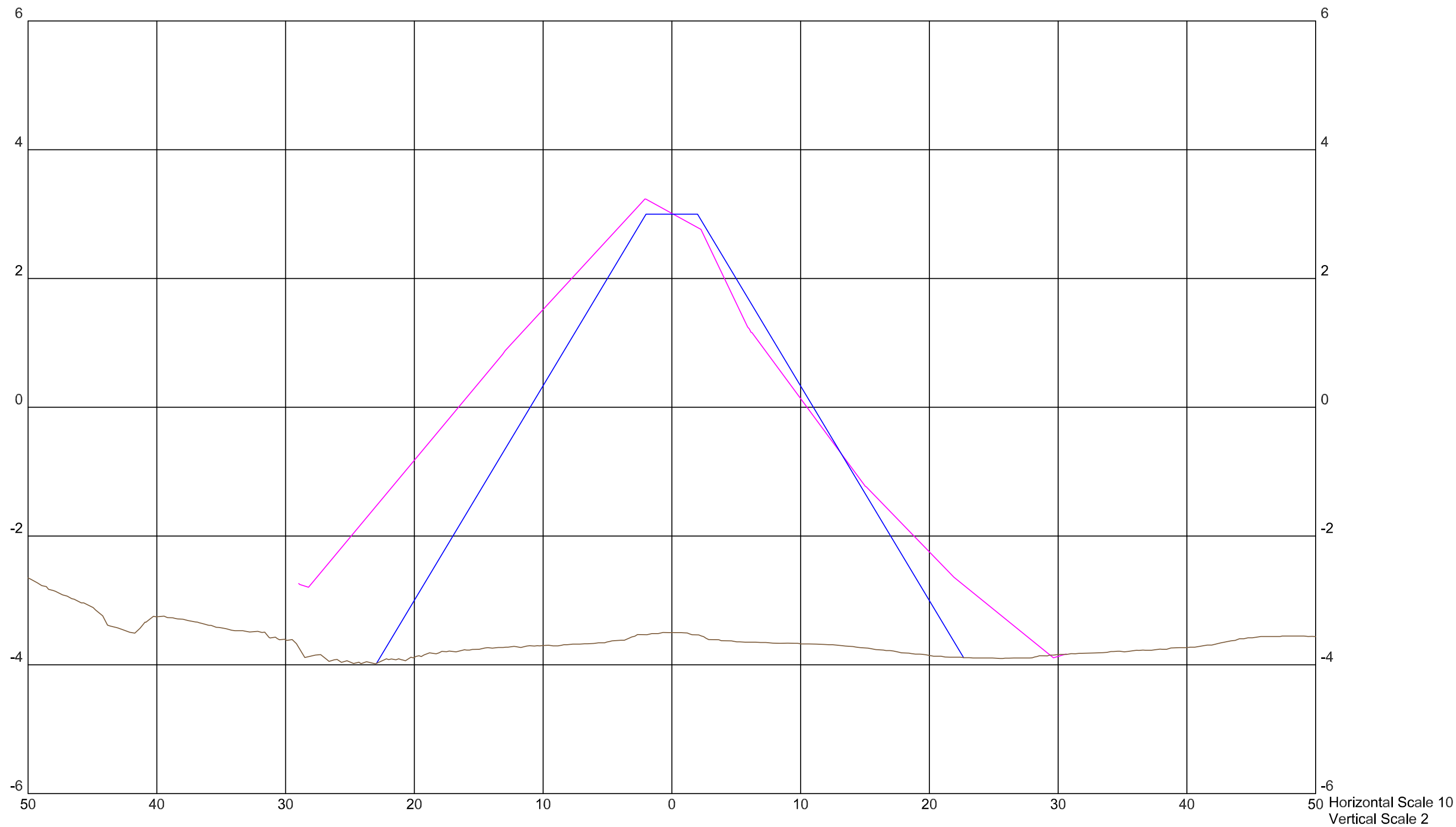


Horizontal Scale 10
Vertical Scale 2

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DESIGN TEMPLATE

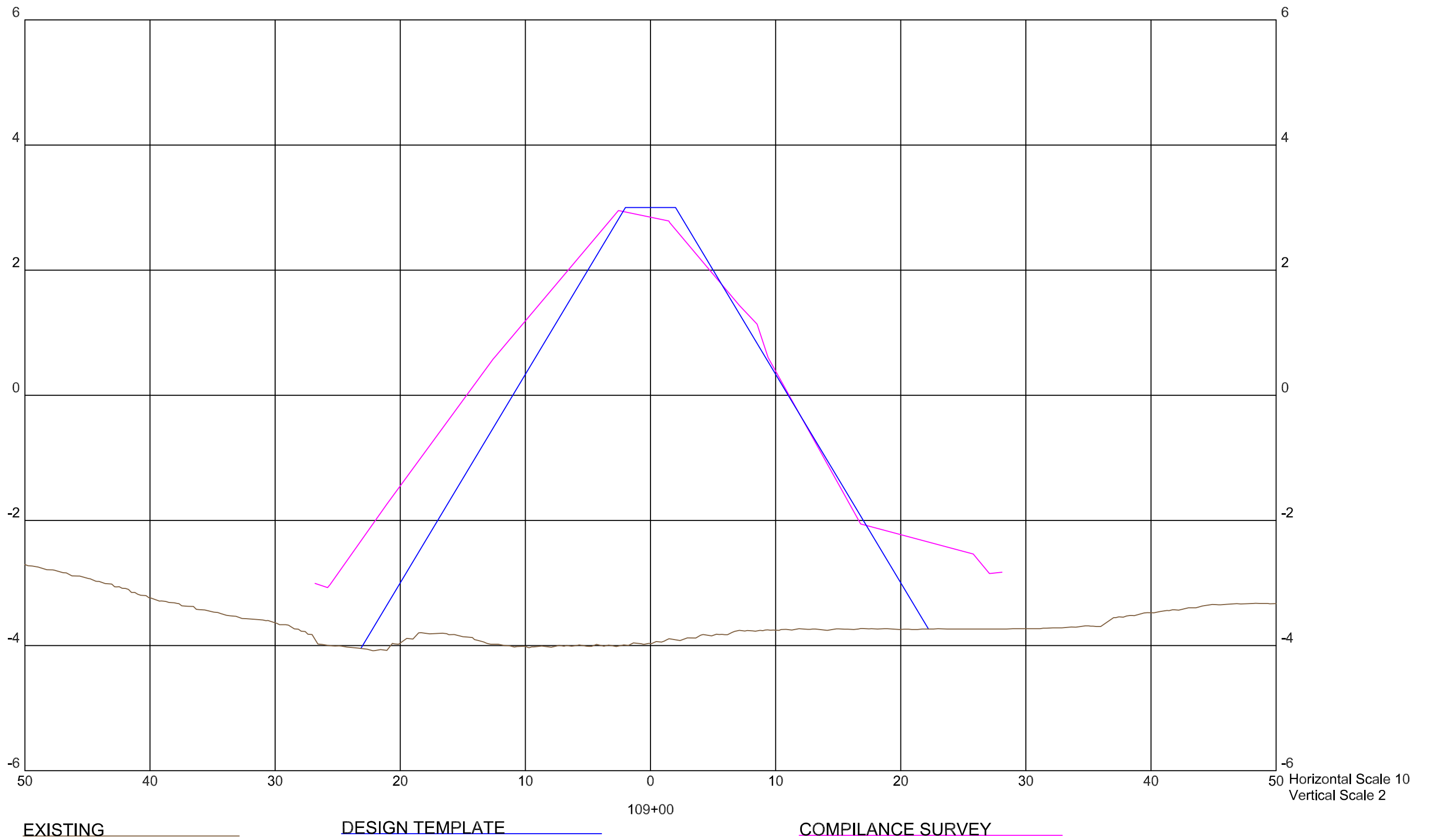
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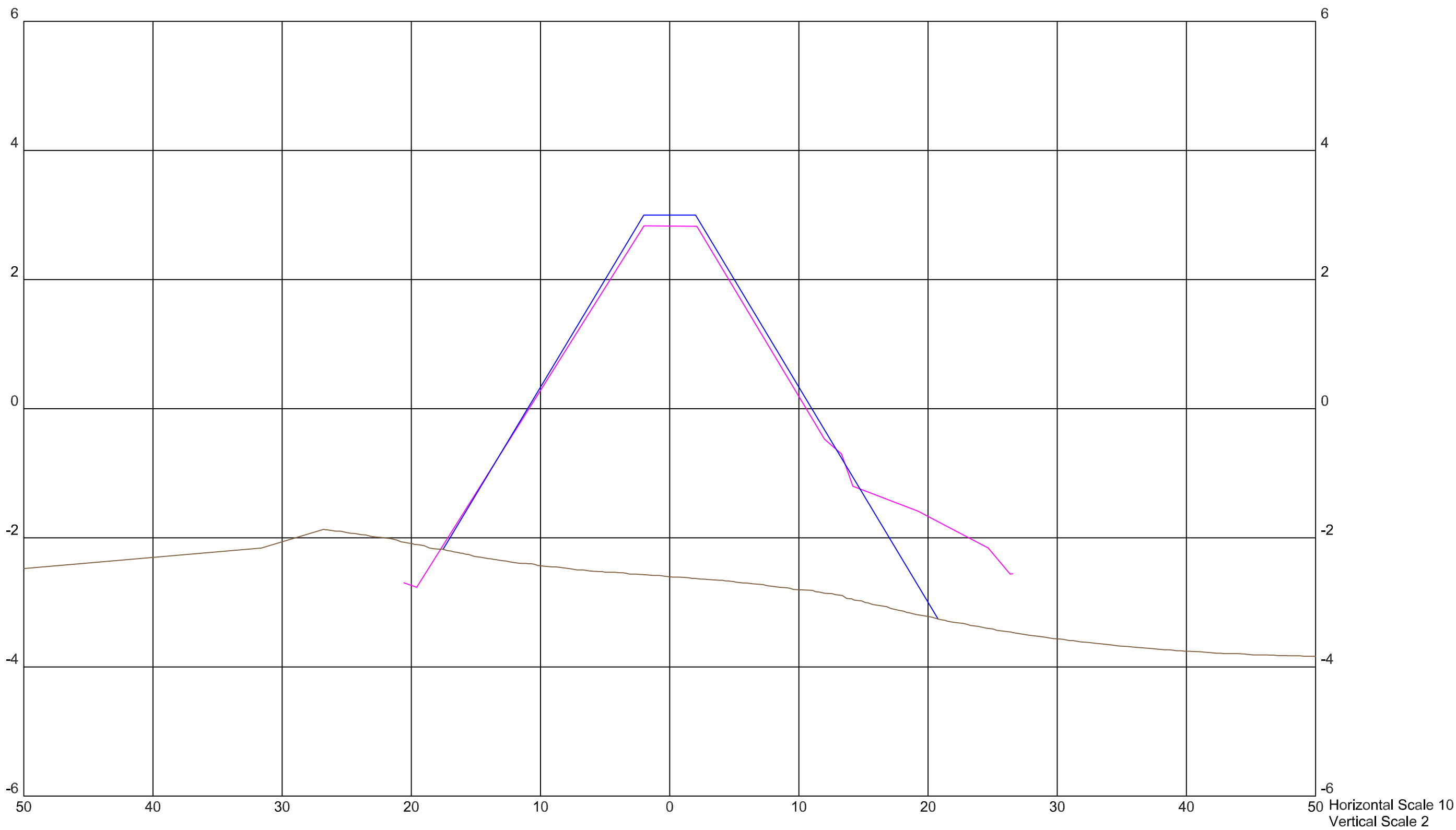


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DESIGN TEMPLATE

COMPLIANCE SURVEY

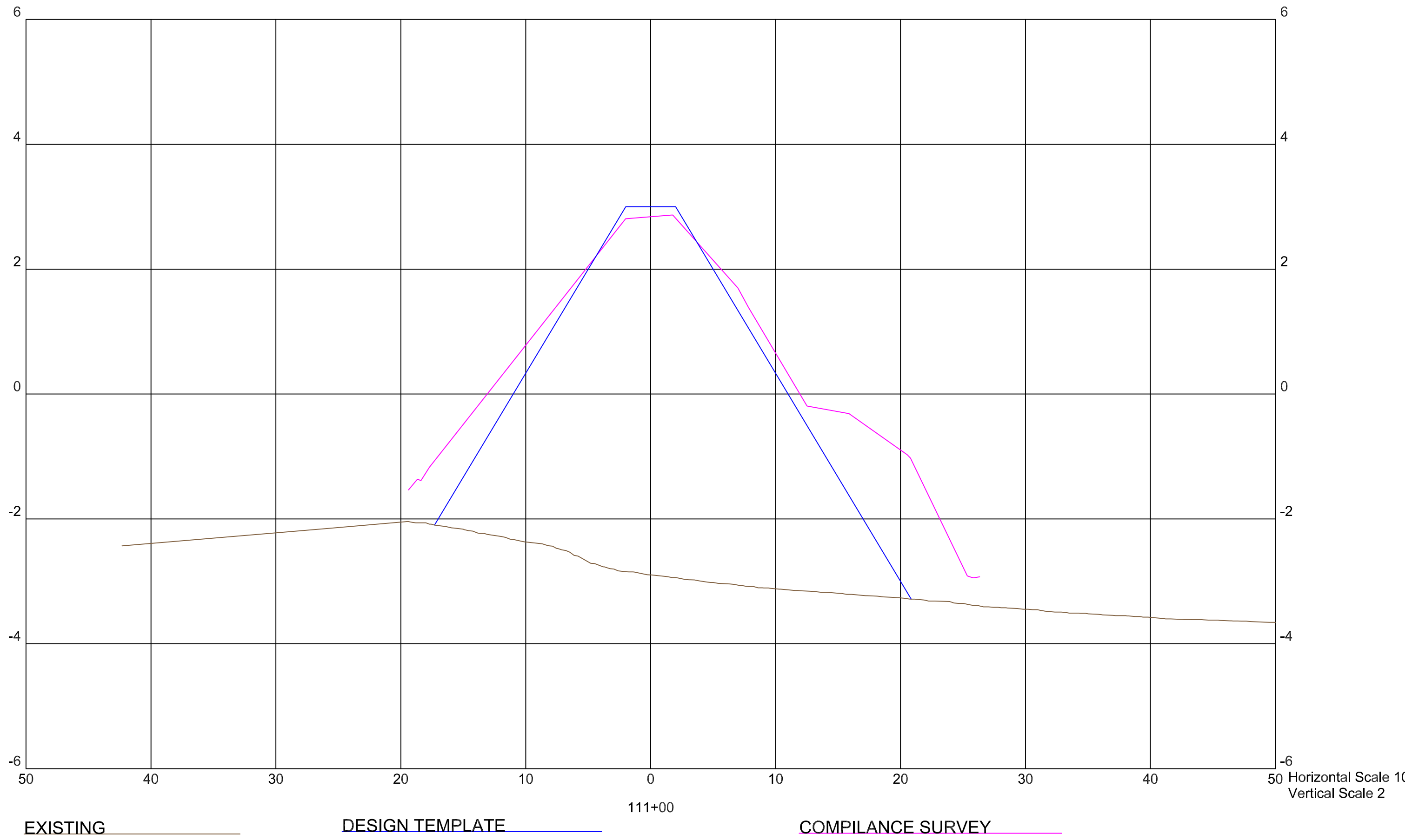


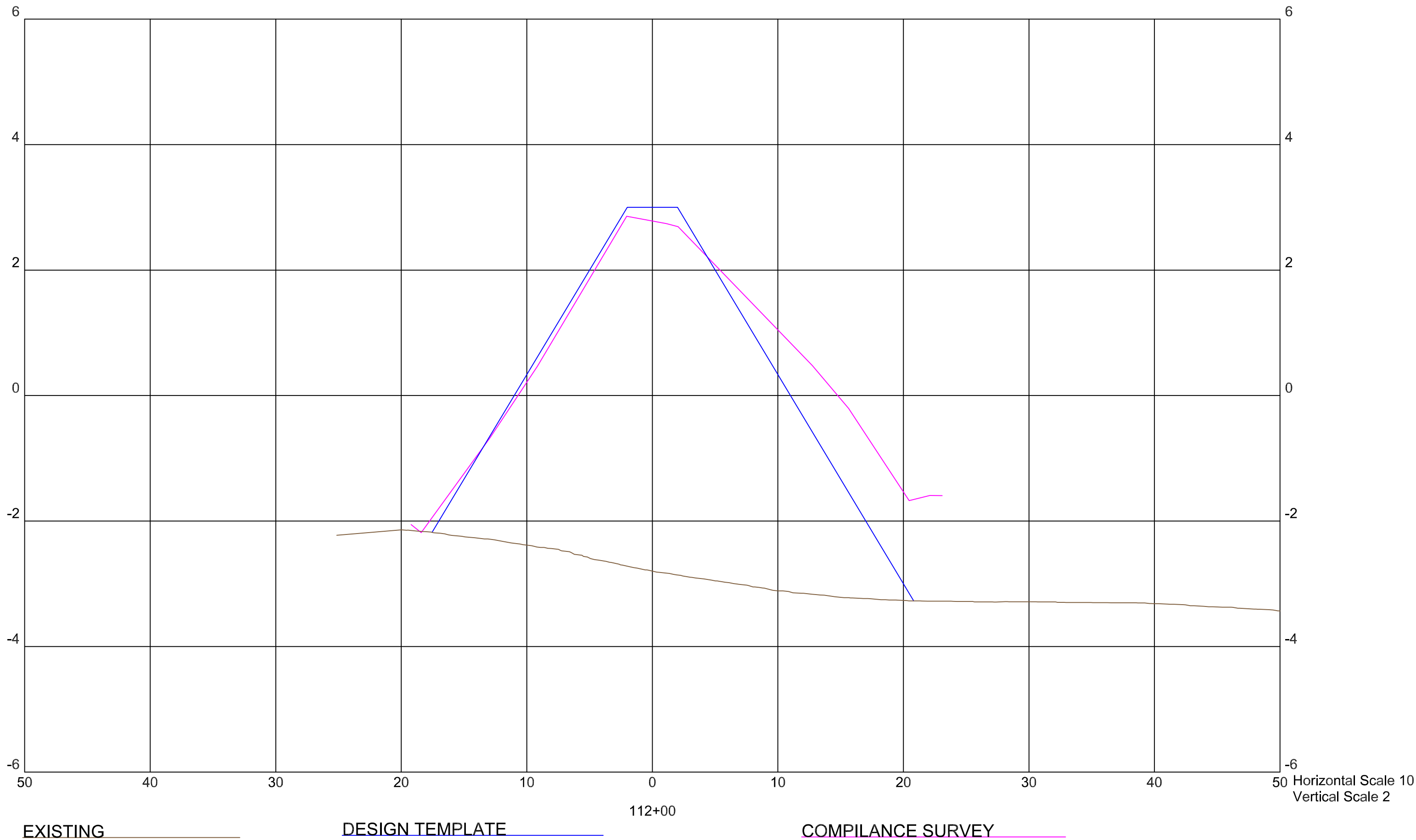


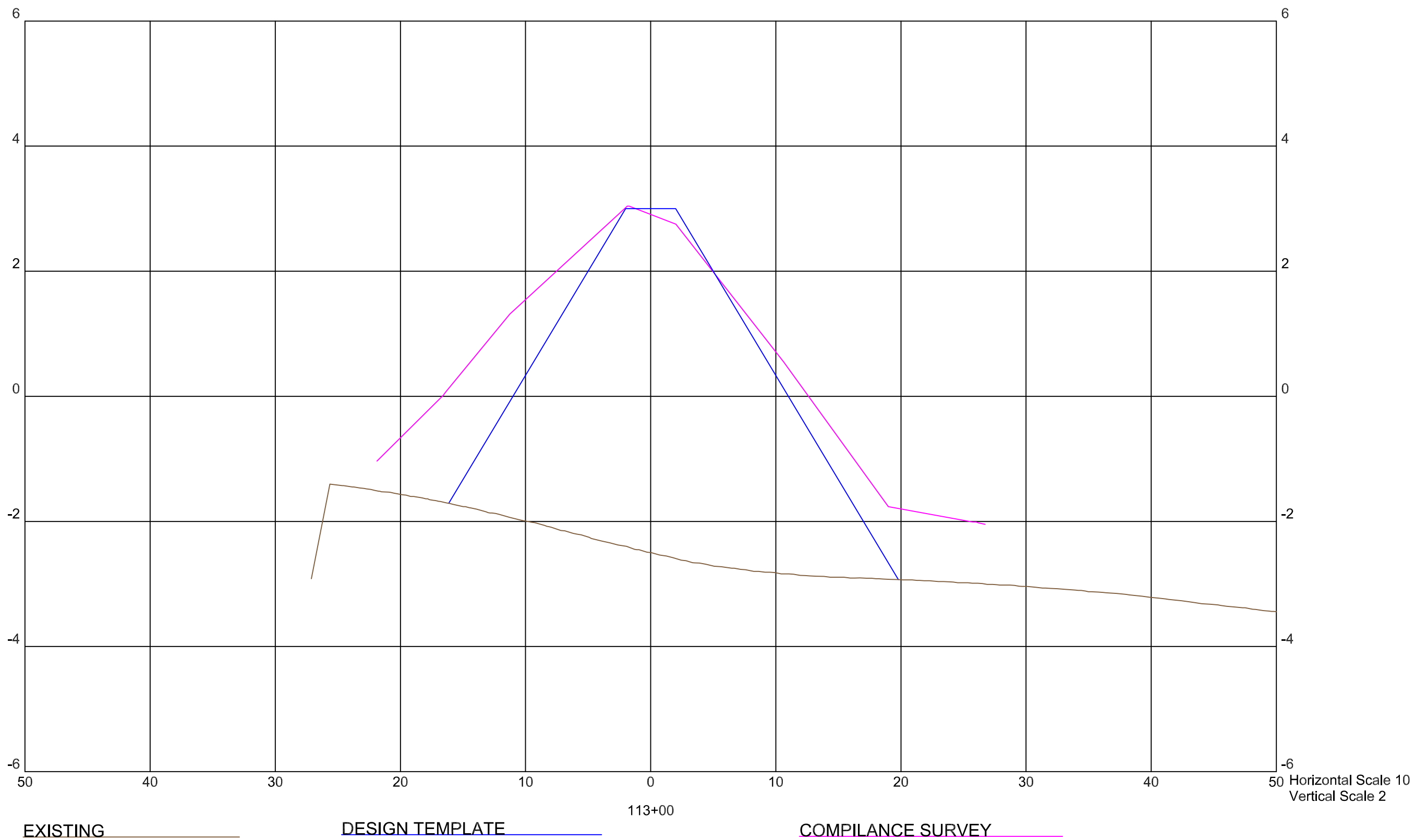
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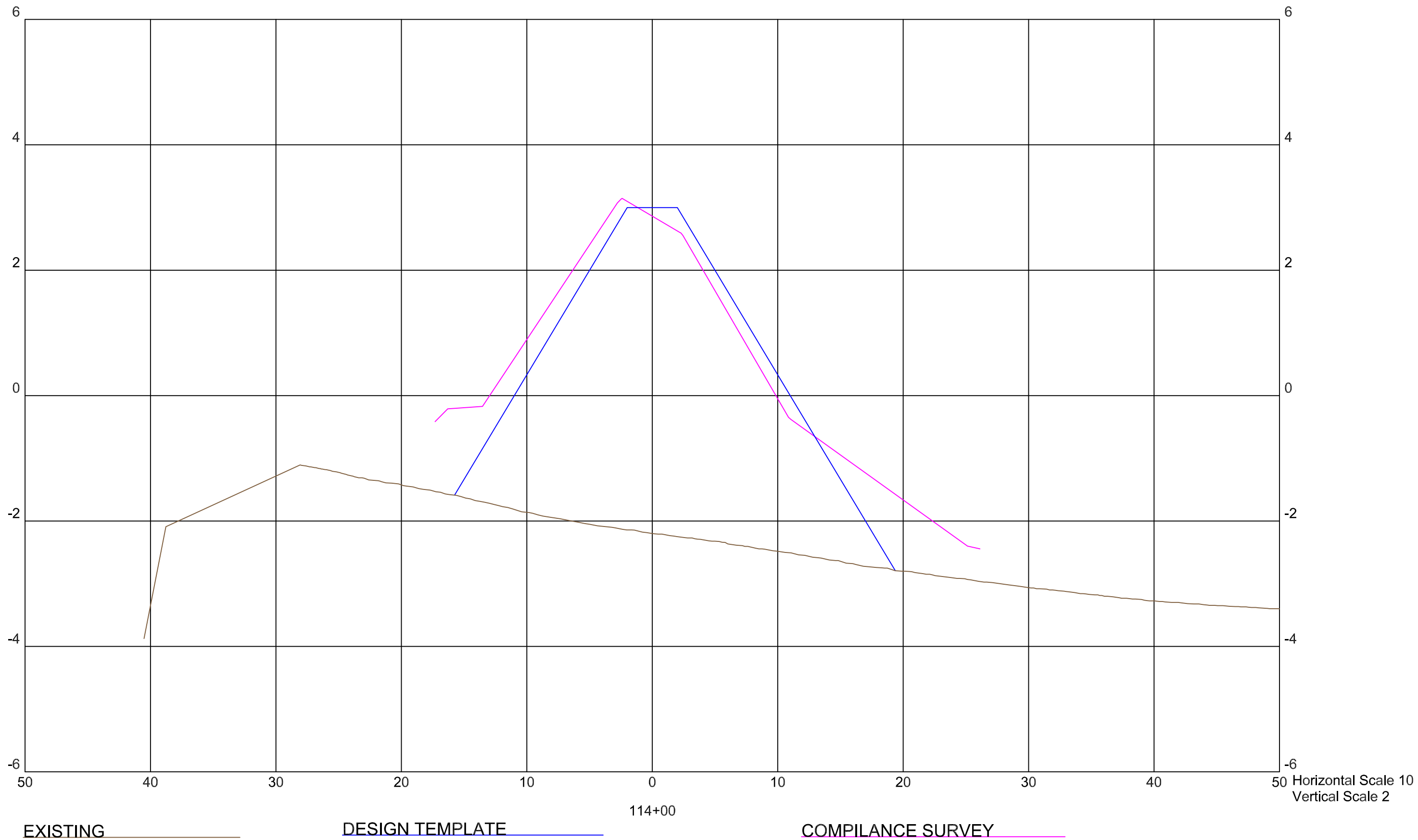
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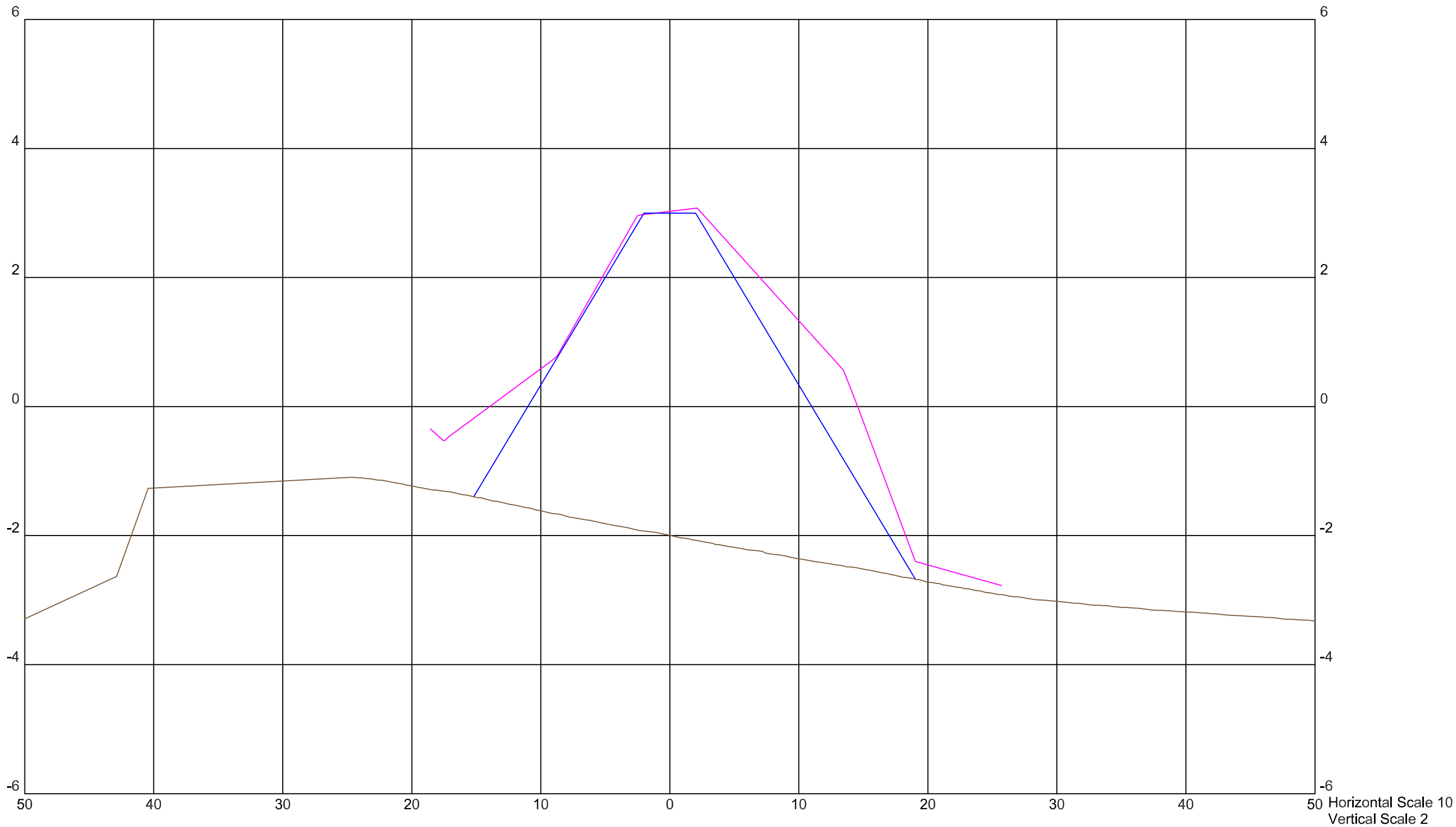
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EXISTING

DESIGN TEMPLATE

COMPLIANCE SURVEY

