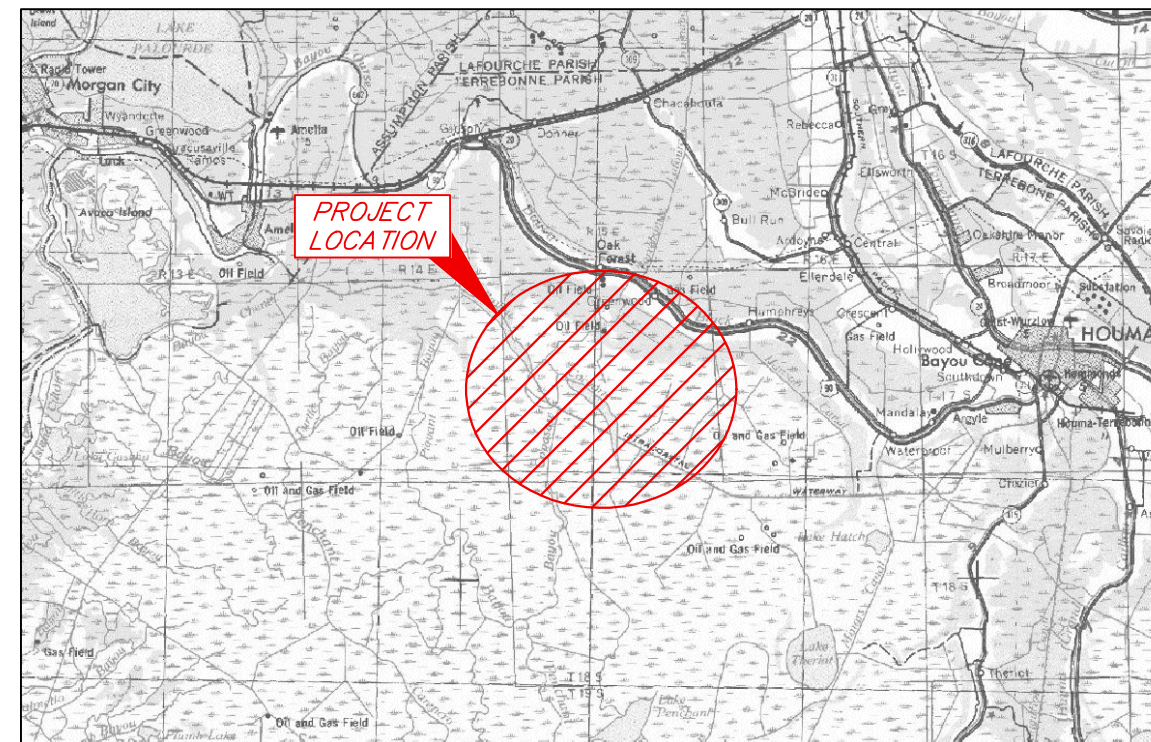


TARPAN CONSTRUCTION, LLC
SEGMENT 4
TE-43 GIWW BANK RESTORATION
AS-BUILT SURVEY (STA 0+06 - 105+78)
TERREBONNE PARISH, LOUISIANA

INDEX TO SHEETS

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2	PLAN VIEW
3 - 19	SECTION VIEWS
20 - 21	PROFILE VIEWS
22	AS-BUILT WARNING SIGN POINT TABLES



"AS-BUILT"



"AS-BUILT PLANS"

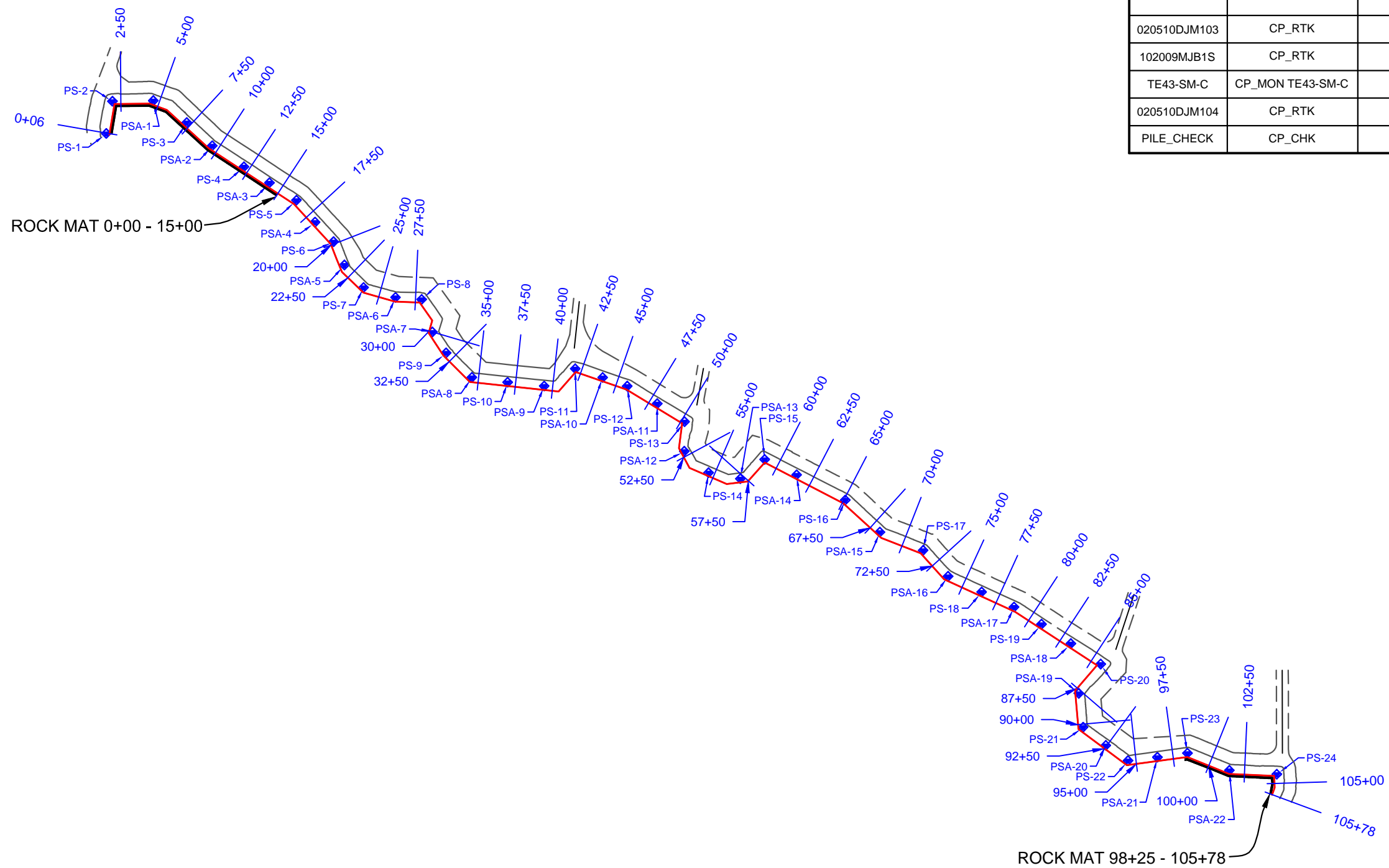
SUBMITTED BY: JASON KROLL 08/21/14
 GOVERNMENT REPRESENTATIVE DATE
 APPROVED BY: BRANDON SAMSON 08/21/14
 ASSISTANT STATE CONSERVATION ENGINEER DATE
MARI GILFORD 08/21/14
 STATE CONSERVATION ENGINEER DATE
 CONTRACT NO. AG-7217-C-13-0006 DATE 6/17/2013
 CONTRACTOR TARPAN CONSTRUCTION LLC
 INSPECTOR CAROL CLEMENT & MEL RODRIGUE
 DATE OF COMPLETION 04/02/14

VICINITY MAP (N.T.S.)

REVISED BY: _____ _____ _____	DATE: _____ _____ _____	New Logo-Model 2.jpg 	TE-43 GIWW BANK RESTORATION SEGMENT 4 AS-BUILT SURVEY STA 0+06 - 105+78 TITLE PAGE TERREBONNE PARISH, LOUISIANA
PLAN SCALE SCALE: NTS 		PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583	
DATE: 03/26/2014	JOB# 2131032	FILE: Segment 4 - As-Built Survey (0+06 - 105+78) (03-26-14).dwg	SHEET: 1 OF 22



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



Project Control Point Table				
Point Name	Raw Description	Elevation (USft)	Northing (USft)	Easting (USft)
020510DJM103	CP_RTK	6.44	385426.36	3412662.80
102009MJB1S	CP_RTK	2.62	390696.19	3401150.56
TE43-SM-C	CP_MON TE43-SM-C	3.35	383893.93	3412721.49
020510DJM104	CP_RTK	6.43	385419.72	3412678.73
PILE_CHECK	CP_CHK	5.15	390707.95	3401177.86

- NOTES
1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL VIA GPS KINEMATIC OBSERVATIONS.
 2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID 99) AS DERIVED FROM PROJECT CONTROL.
 3. TOPOGRAPHIC SURVEY DATA ACQUISITION PERFORMED WITH RTK AND CONVENTIONAL SURVEY METHODS.
 4. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
 5. AS-BUILT SURVEY DATA OF RIPRAP WAS ACQUIRED BY LUHR BROS. FROM AUGUST 8, 2013 TO JANUARY 25, 2014 AND PRESENTED AS SHOWN IN SURVEY CROSS-SECTION VIEWS. AS-BUILT SURVEY DATA OF FLOTATION BACKFILL WAS ACQUIRED BY WEEKS MARINE, INC. ON MARCH 19, 2014 AND PRESENTED AS SHOWN IN SURVEY CROSS-SECTION VIEW.
 6. SEE AS-BUILT PERMANENT WARNING SIGN AND PILE LOCATIONS TABLE ON SHEET 20 OF 22.

LEGEND

- PROPOSED ϵ OF SEGMENT 4 ALIGNMENT
- PROPOSED SURVEY SECTIONS
- - - EXCAVATION TEMPLATE
- AS-BUILT WARNING SIGN

REVISED BY: _____ DATE: _____

HORIZONTAL SCALE

800' 0' 400' 800'

DATE: 03/26/2014 JOB# 2131032

New Logo-Model 2.jpg

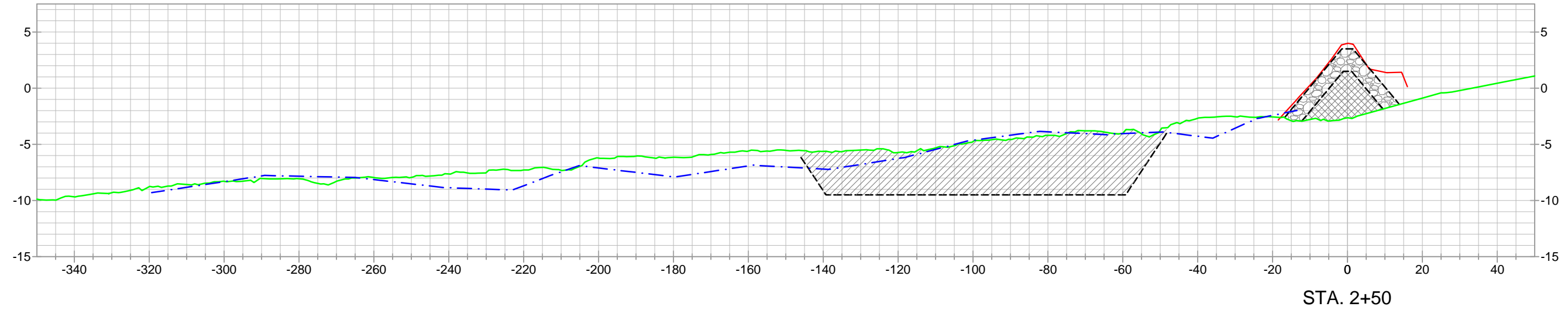
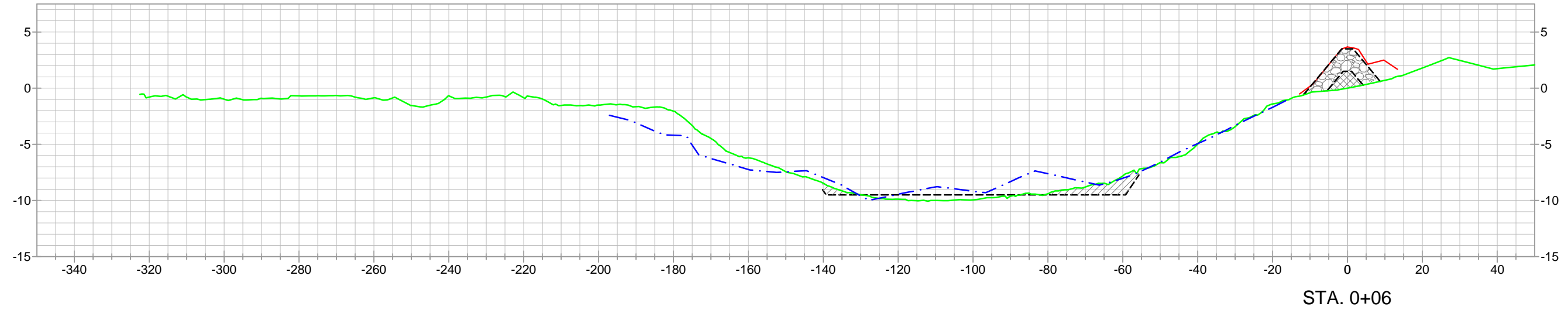
Tarpan Const LLC.gif

**TE-43 GIWW BANK RESTORATION
SEGMENT 4
AS-BUILT SURVEY
STA 0+06 - 105+78
PLAN VIEW
TERREBONNE PARISH, LOUISIANA**

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Segment 4 - As-Built Survey (0+06 - 105+78) (03-26-14).dwg

SHEET: 2 OF 22



"AS-BUILT"

LEGEND	
	PRE - CONSTRUCTION SURVEY
	TEMPLATE
	AS-BUILT RIPRAP SURVEY
	FLOTATION AS-BUILT SURVEY
	ENCAPSULATED LIGHTWEIGHT AGGREGATE
	RIPRAP

REVISED BY:	DATE:
HORIZONTAL SCALE	
VERTICAL SCALE	
DATE: 03/26/2014	JOB# 2131032

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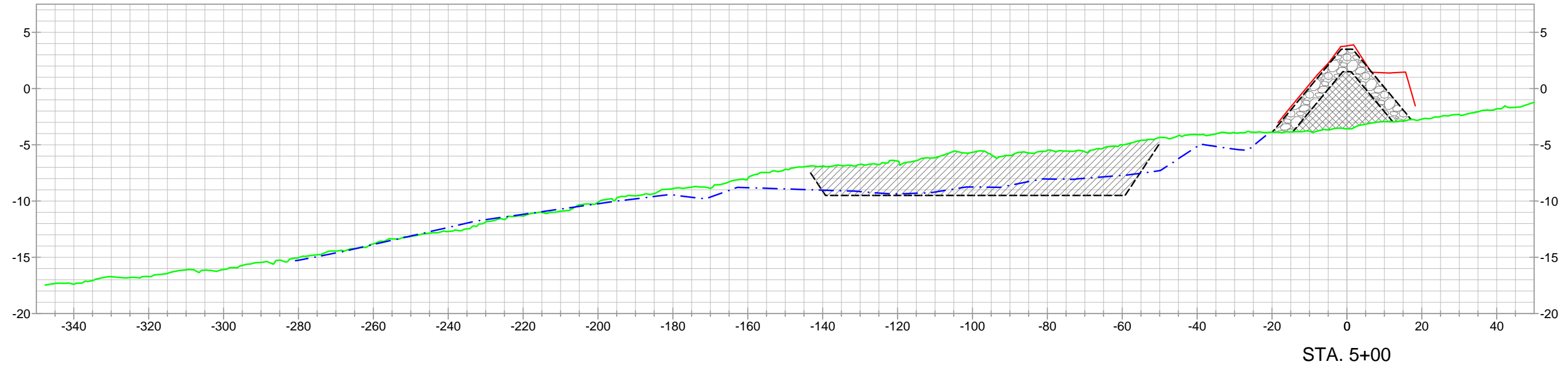
Tarpan Const LLCgfp

**TE-43 GIWW BANK RESTORATION
SEGMENT 4
AS-BUILT SURVEY
STA 0+06 - 105+78
SECTION VIEWS
TERREBONNE PARISH, LOUISIANA**

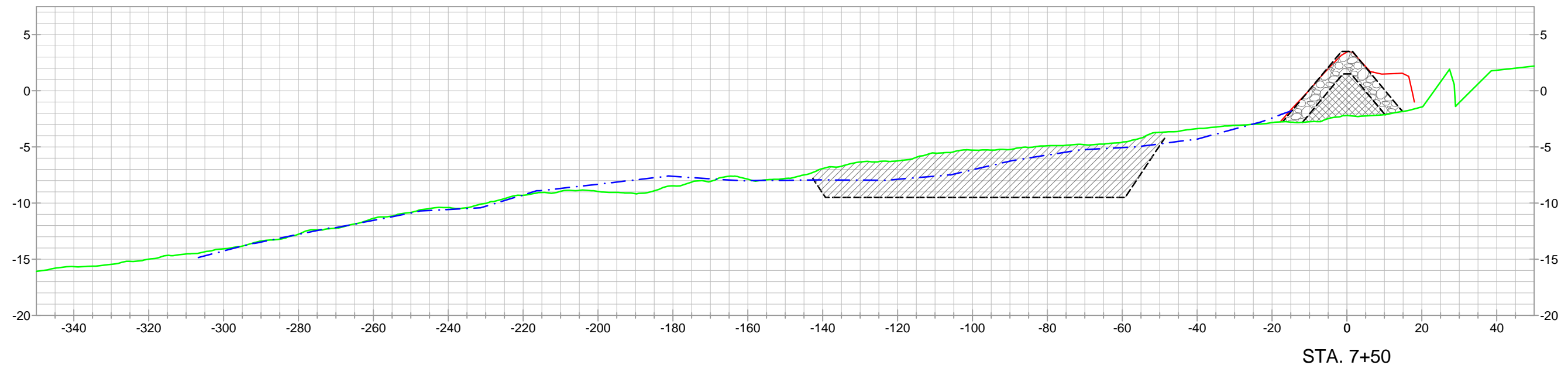
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Segment 4 - As-Built Survey (0+06 - 105+78) (03-26-14).dwg

SHEET: 3 OF 22



STA. 5+00



STA. 7+50

"AS-BUILT"

LEGEND	
	PRE - CONSTRUCTION SURVEY
	TEMPLATE
	AS-BUILT RIPRAP SURVEY
	FLOTATION AS-BUILT SURVEY
	ENCAPSULATED LIGHTWEIGHT AGGREGATE
	RIPRAP

REVISED BY:	DATE:
HORIZONTAL SCALE	
VERTICAL SCALE	
DATE: 03/26/2014	JOB# 2131032

New Logo-Model 2.jpg

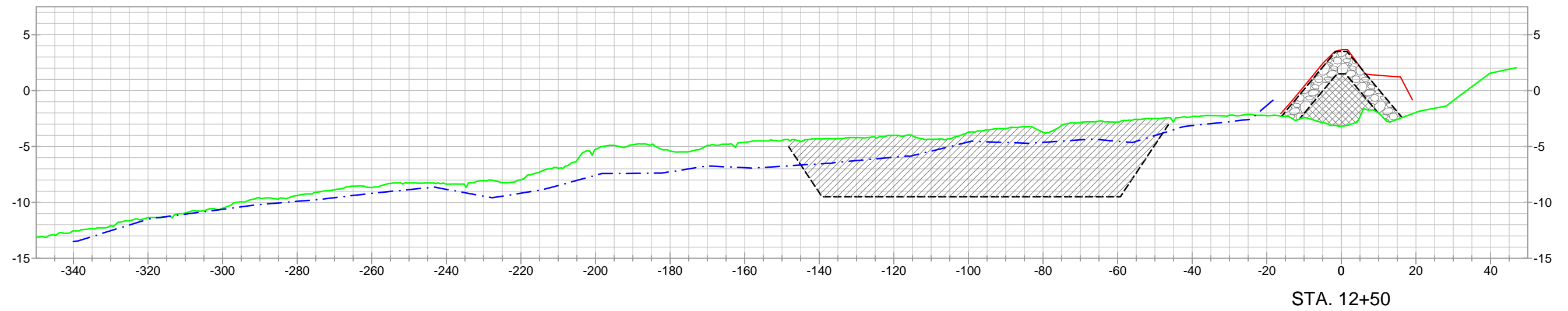
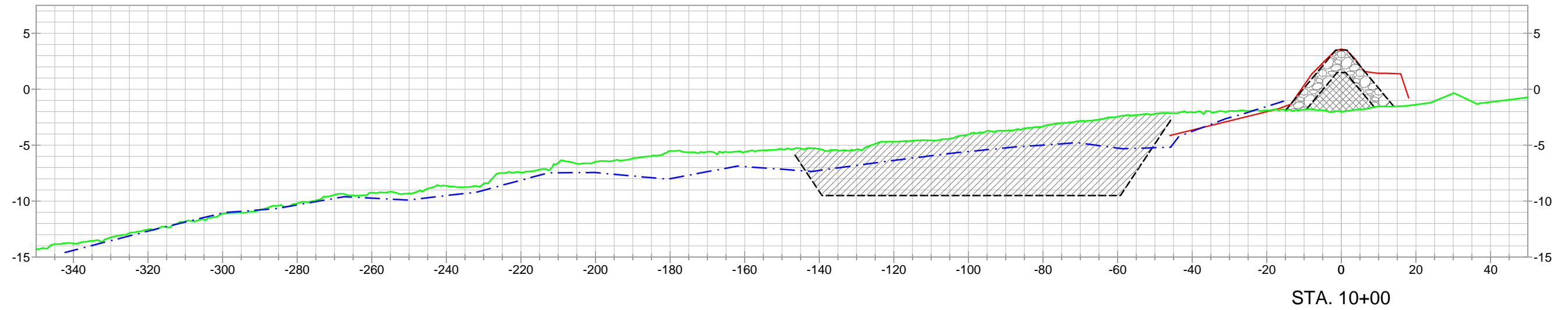
Tarpan Const LLC.gif

**TE-43 GIWW BANK RESTORATION
SEGMENT 4
AS-BUILT SURVEY
STA 0+06 - 105+78
SECTION VIEWS
TERREBONNE PARISH, LOUISIANA**

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

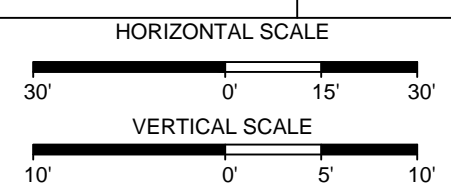
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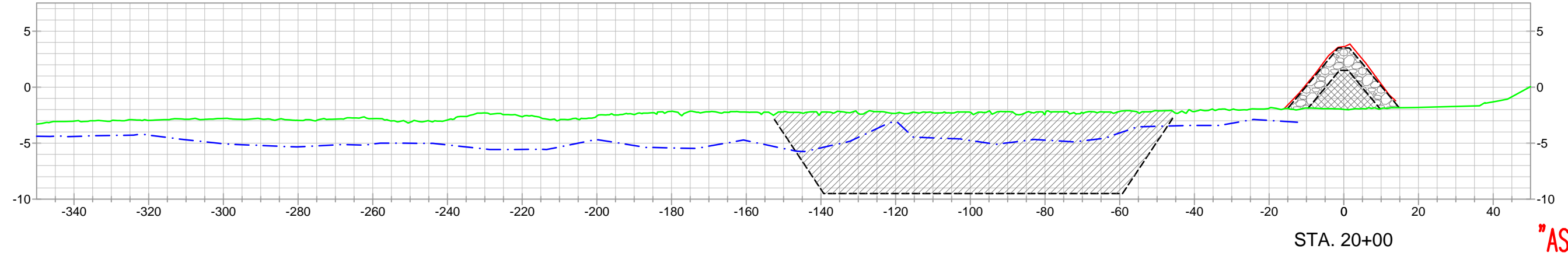
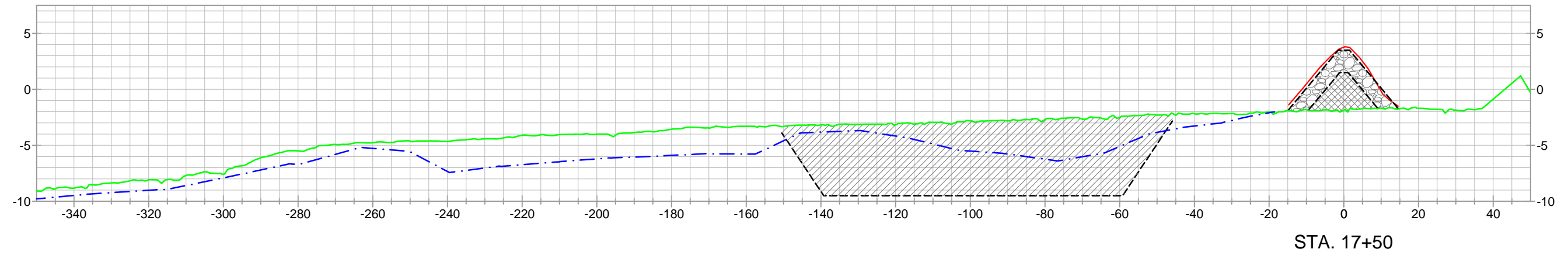
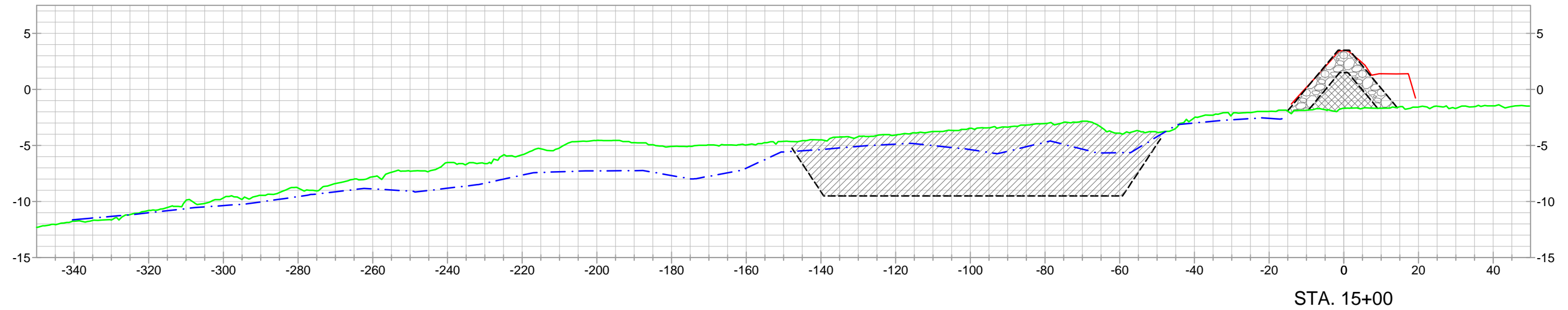
SHEET: 4 OF 22



"AS-BUILT"

<p>LEGEND</p> <ul style="list-style-type: none"> PRE - CONSTRUCTION SURVEY TEMPLATE AS-BUILT RIPRAP SURVEY FLOTATION AS-BUILT SURVEY ENCAPSULATED LIGHTWEIGHT AGGREGATE RIPRAP 	<p>REVISED BY:</p>	<p>DATE:</p>	<p>New Logo-Model 2.jpg</p> <p style="text-align: center; font-size: small;">Tarpan Const LLC.gif</p>	<p>TE-43 GIWW BANK RESTORATION SEGMENT 4 <i>AS-BUILT SURVEY</i> STA 0+06 - 105+78 SECTION VIEWS TERREBONNE PARISH, LOUISIANA</p>
	<p>DATE: 03/26/2014</p>	<p>JOB# 2131032</p>		

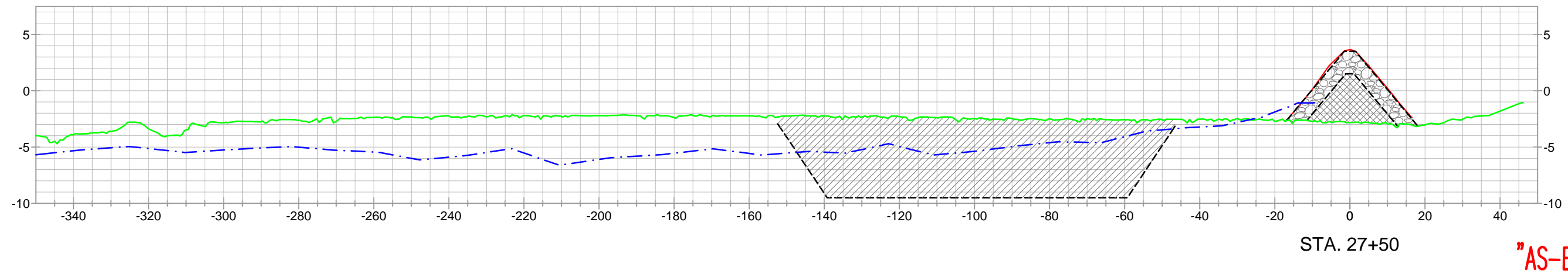
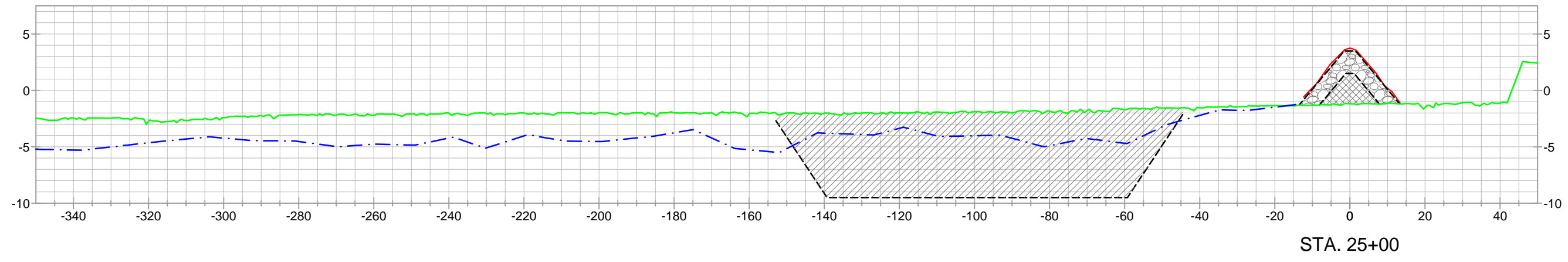
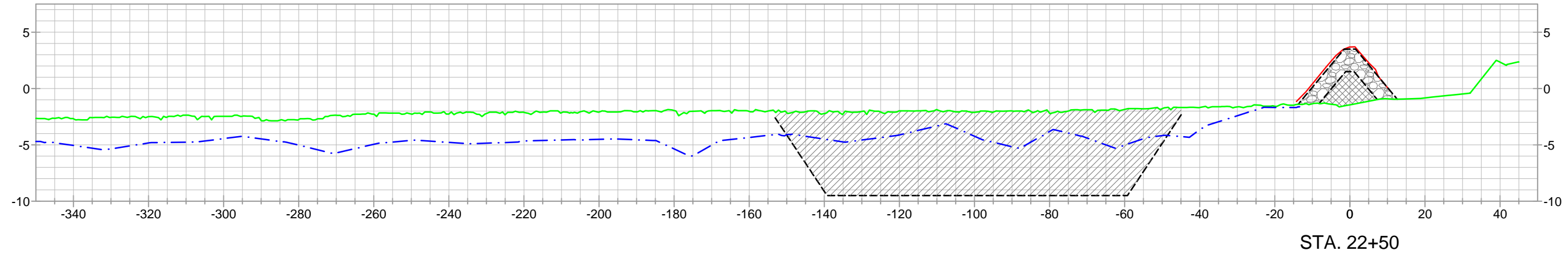




"AS-BUILT"

LEGEND PRE - CONSTRUCTION SURVEY TEMPLATE AS-BUILT RIPRAP SURVEY FLOTATION AS-BUILT SURVEY ENCAPSULATED LIGHTWEIGHT AGGREGATE RIPRAP	REVISED BY:	DATE:	New Logo-Model 2.jpg 	TE-43 GIWW BANK RESTORATION SEGMENT 4 AS-BUILT SURVEY STA 0+06 - 105+78 SECTION VIEWS TERREBONNE PARISH, LOUISIANA	
	HORIZONTAL SCALE				
	VERTICAL SCALE				
	DATE: 03/26/2014	JOB# 2131032			PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Segment 4 - As-Built Survey (0+06 - 105+78) (03-26-14).dwg



"AS-BUILT"

LEGEND	
	PRE - CONSTRUCTION SURVEY
	TEMPLATE
	AS-BUILT RIPRAP SURVEY
	FLOTATION AS-BUILT SURVEY
	ENCAPSULATED LIGHTWEIGHT AGGREGATE
	RIPRAP

REVISED BY:	DATE:
HORIZONTAL SCALE	
VERTICAL SCALE	
DATE: 03/26/2014	JOB# 2131032

New Logo-Model 2.jpg

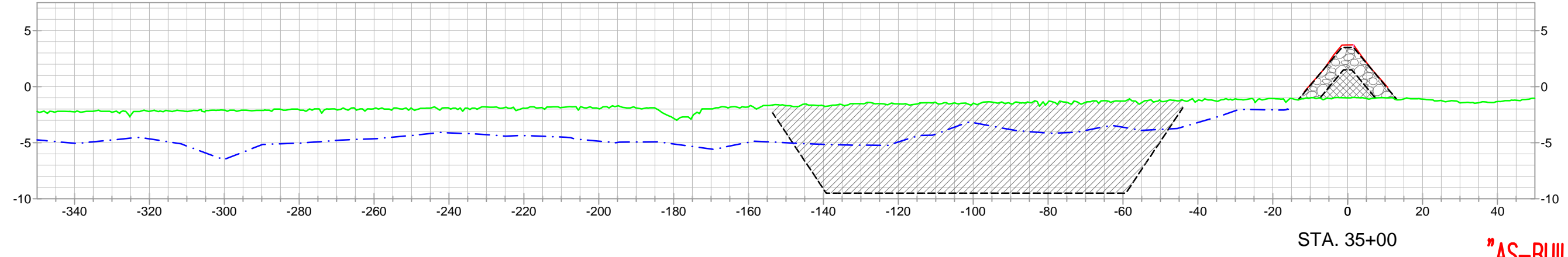
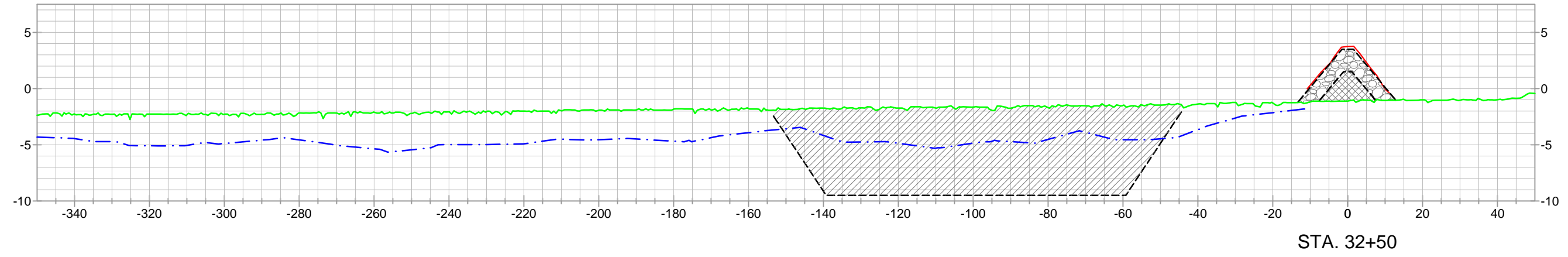
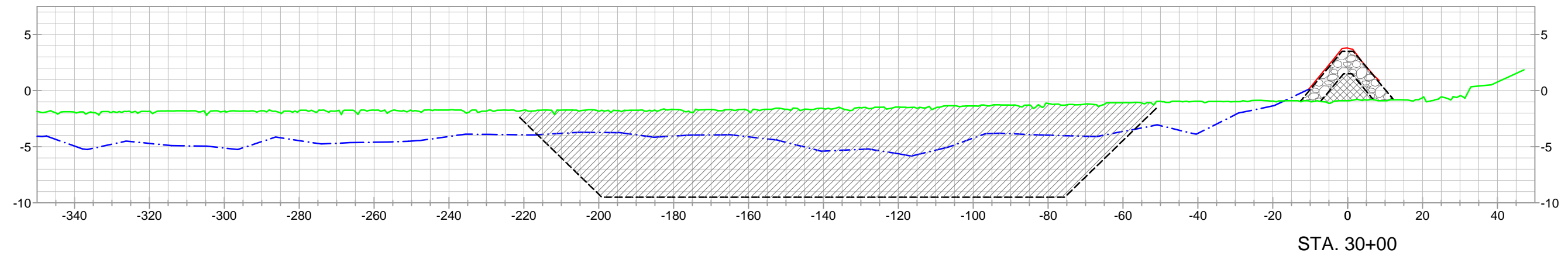
Tarpan Const LLCgfp

**TE-43 GIWW BANK RESTORATION
SEGMENT 4
AS-BUILT SURVEY
STA 0+06 - 105+78
SECTION VIEWS
TERREBONNE PARISH, LOUISIANA**

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Segment 4 - As-Built Survey (0+06 - 105+78) (03-26-14).dwg

SHEET: 7 OF 22



"AS-BUILT"

LEGEND	
	PRE - CONSTRUCTION SURVEY
	TEMPLATE
	AS-BUILT RIPRAP SURVEY
	FLOTATION AS-BUILT SURVEY
	ENCAPSULATED LIGHTWEIGHT AGGREGATE
	RIPRAP

REVISED BY:	DATE:
HORIZONTAL SCALE	
VERTICAL SCALE	
DATE: 03/26/2014	JOB# 2131032

New Logo-Model 2.jpg

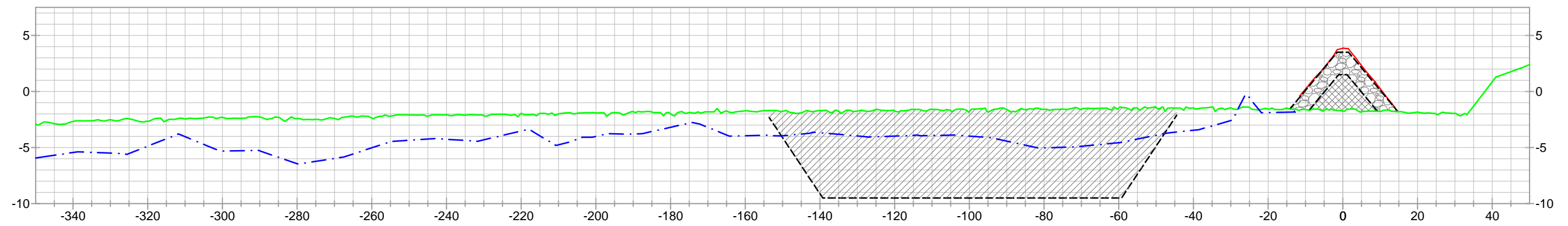
Tarpan Const LLC

**TE-43 GIWW BANK RESTORATION
SEGMENT 4
AS-BUILT SURVEY
STA 0+06 - 105+78
SECTION VIEWS
TERREBONNE PARISH, LOUISIANA**

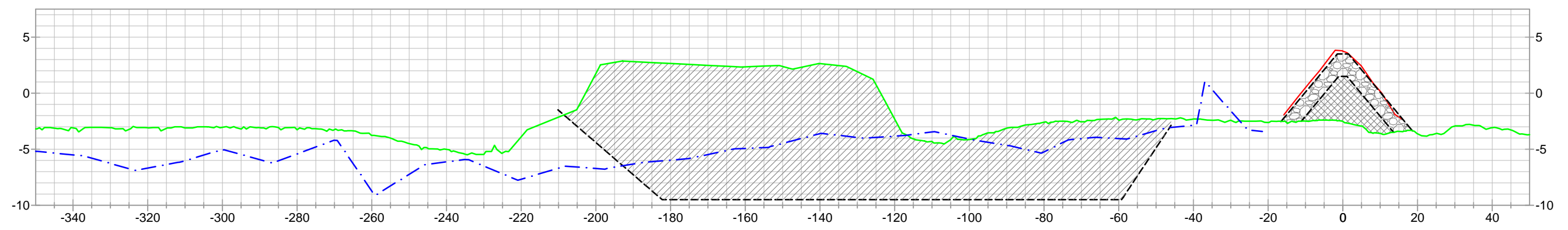
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Segment 4 - As-Built Survey (0+06 - 105+78) (03-26-14).dwg

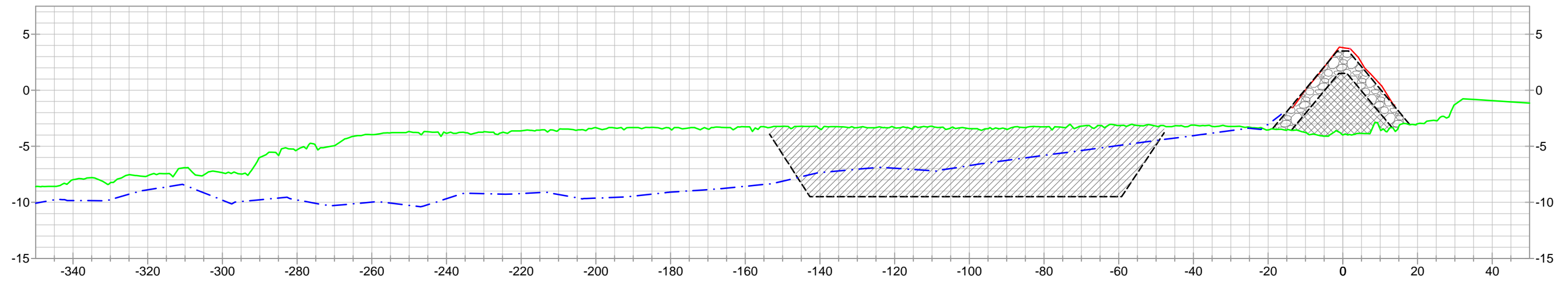
SHEET: 8 OF 22



STA. 37+50



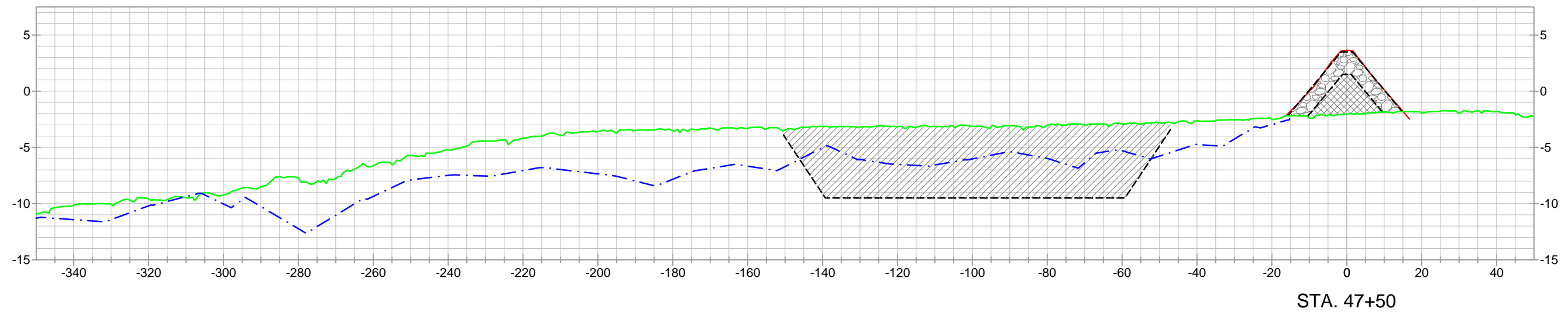
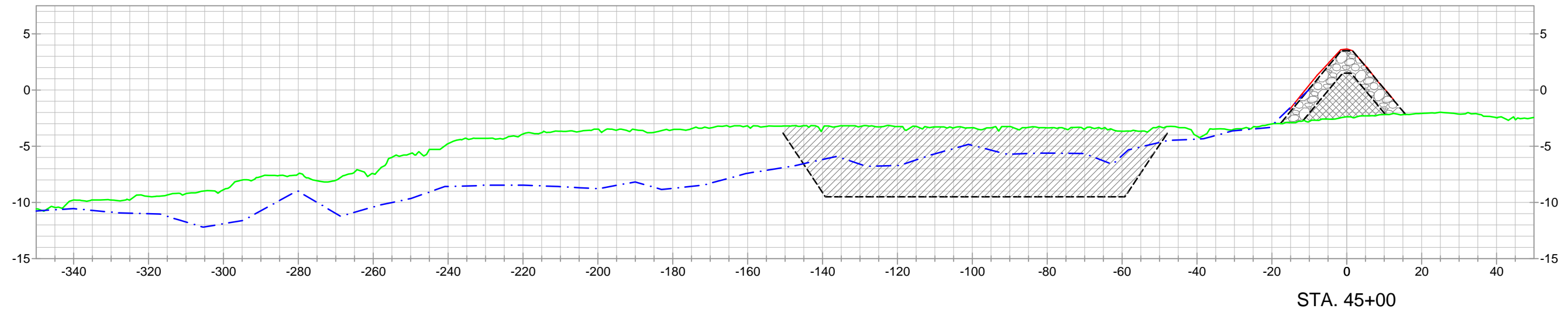
STA. 40+00



STA. 42+50

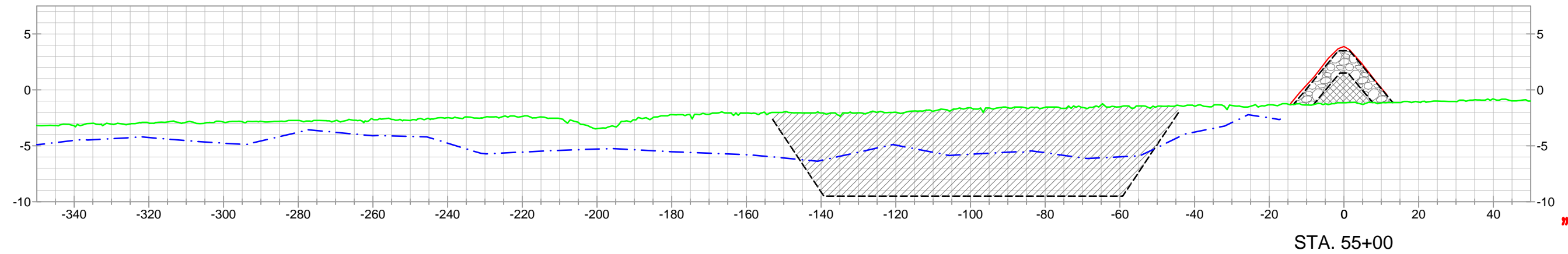
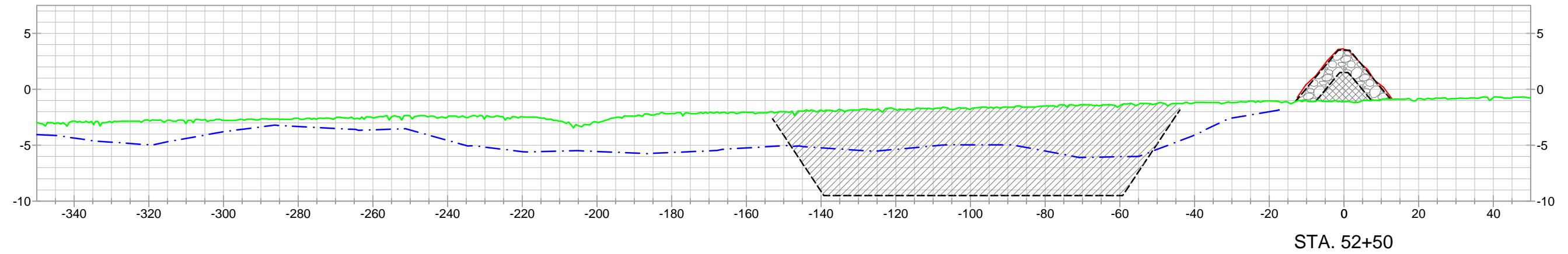
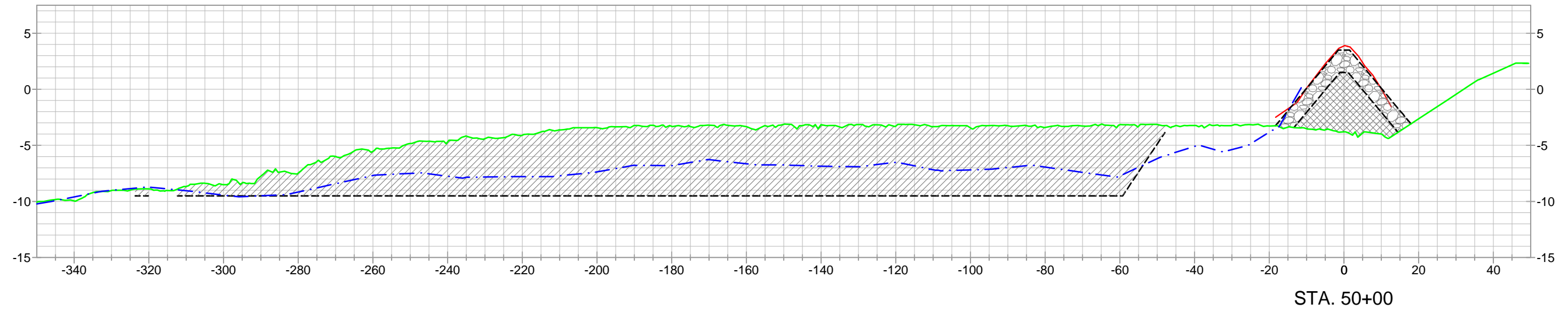
"AS-BUILT"

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	<p>HORIZONTAL SCALE</p>			
	<p>VERTICAL SCALE</p>			
	DATE: 03/26/2014	JOB# 2131032		
			FILE: Segment 4 - As-Built Survey (0+06 - 105+78) (03-26-14).dwg	SHEET: 9 OF 22



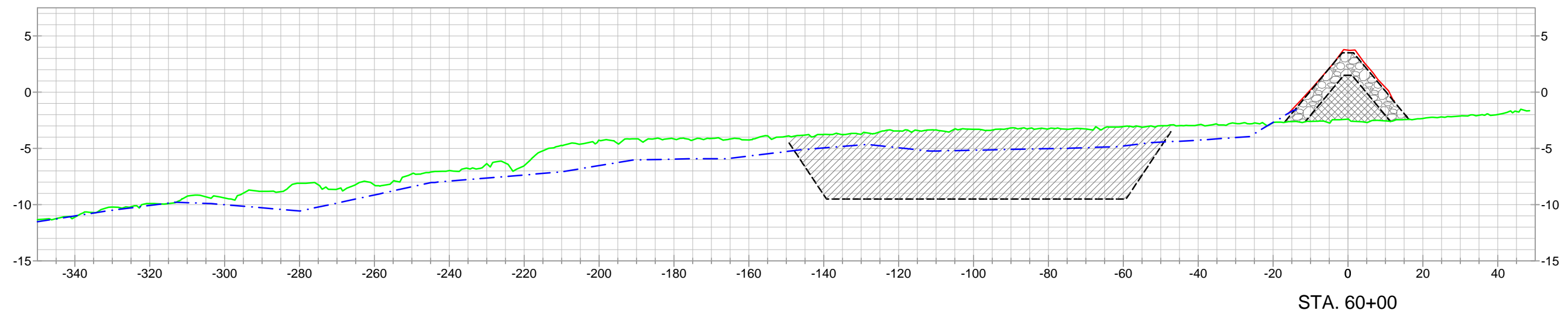
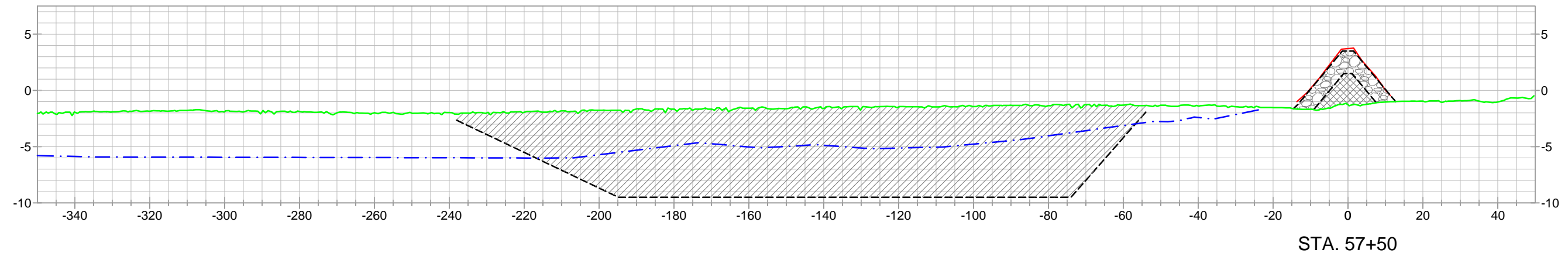
"AS-BUILT"

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	<p>DATE: 03/26/2014</p>	<p>JOB# 2131032</p>		



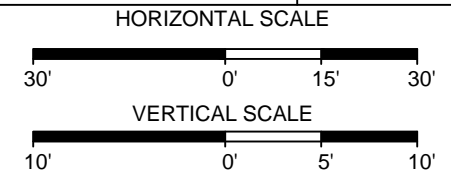
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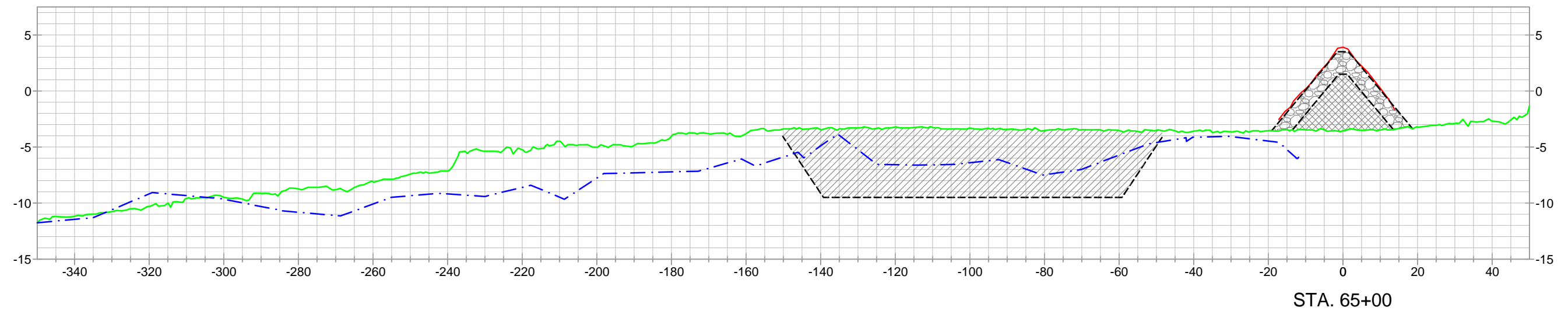
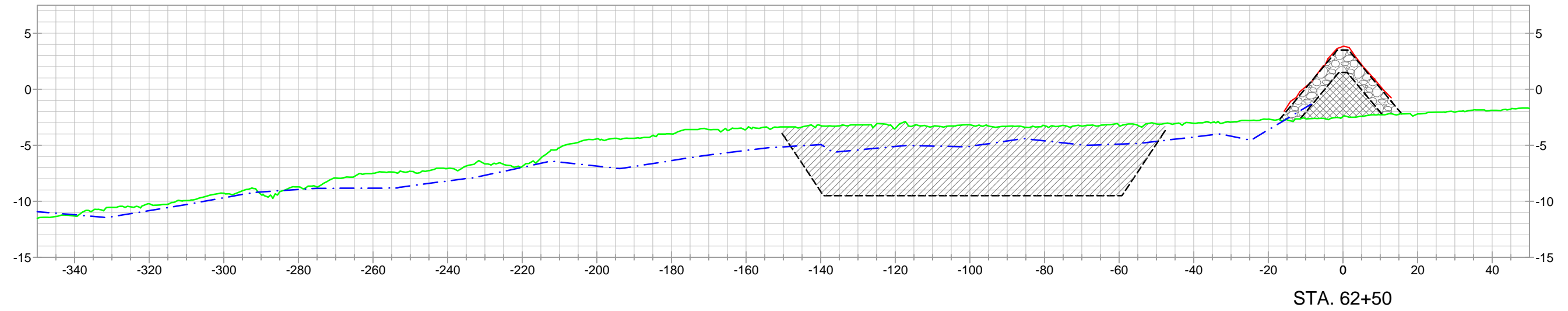
<p>LEGEND</p> <ul style="list-style-type: none"> PRE - CONSTRUCTION SURVEY TEMPLATE AS-BUILT RIPRAP SURVEY FLOTATION AS-BUILT SURVEY ENCAPSULATED LIGHTWEIGHT AGGREGATE RIPRAP 	REVISED BY:	DATE:	<p>New Logo-Model 2.jpg</p> <p style="text-align: center; font-size: small;">Tarpan Const LLC.gif</p>	<p>TE-43 GIWW BANK RESTORATION SEGMENT 4 <i>AS-BUILT SURVEY</i> STA 0+06 - 105+78 SECTION VIEWS TERREBONNE PARISH, LOUISIANA</p>
	<p>HORIZONTAL SCALE</p> <p>30' 0' 15' 30'</p>			
	<p>VERTICAL SCALE</p> <p>10' 0' 5' 10'</p>			
	DATE: 03/26/2014	JOB# 2131032		
			FILE: Segment 4 - As-Built Survey (0+06 - 105+78) (03-26-14).dwg	SHEET: 11 OF 22



"AS-BUILT"

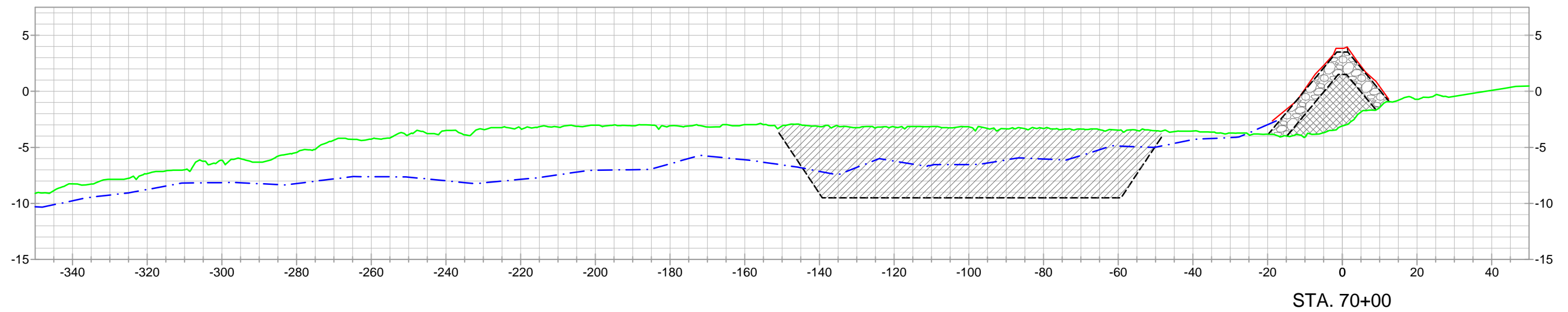
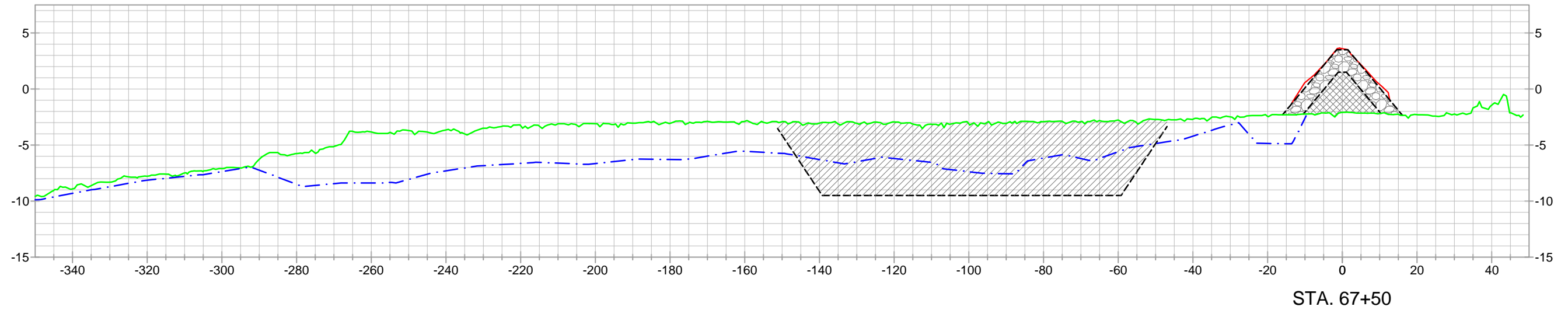
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	<p>DATE: 03/26/2014</p>	<p>JOB# 2131032</p>		











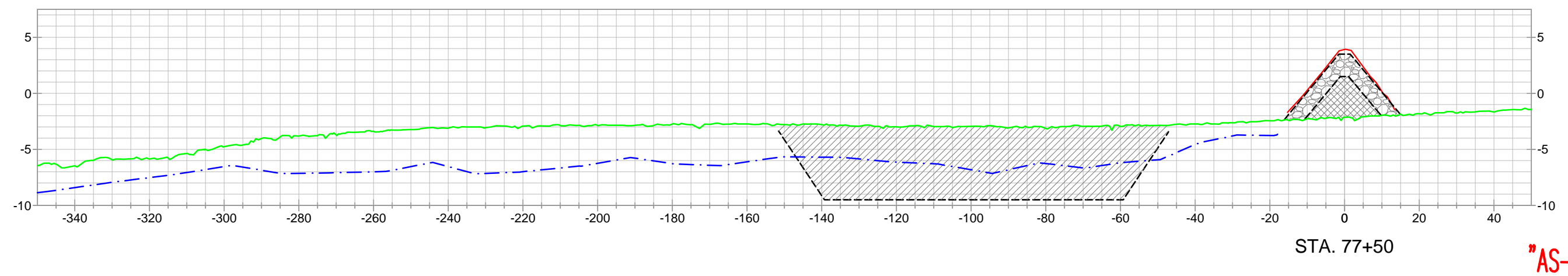
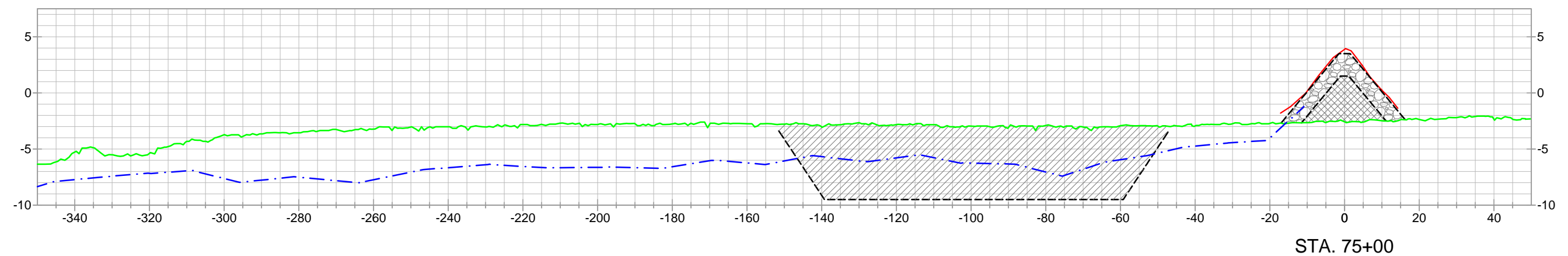
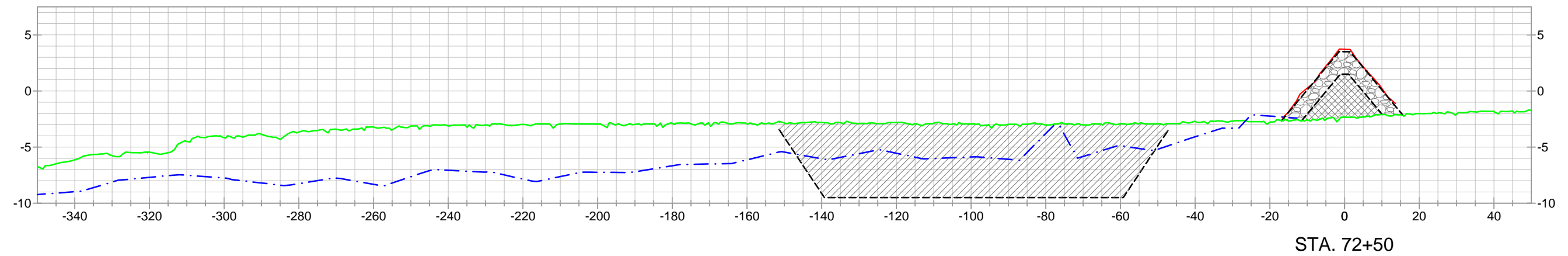
"AS-BUILT"

LEGEND	REVISED BY:	DATE:	New Logo-Model 2.jpg	TE-43 GIWW BANK RESTORATION SEGMENT 4 AS-BUILT SURVEY STA 0+06 - 105+78 SECTION VIEWS TERREBONNE PARISH, LOUISIANA
PRE - CONSTRUCTION SURVEY TEMPLATE AS-BUILT RIPRAP SURVEY FLOTATION AS-BUILT SURVEY ENCAPSULATED LIGHTWEIGHT AGGREGATE RIPRAP			Terpan Const LLC.gif	
	HORIZONTAL SCALE			
	VERTICAL SCALE			
	DATE: 03/26/2014	JOB# 2131032	PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583	
	FILE: Segment 4 - As-Built Survey (0+06 - 105+78) (03-26-14).dwg			SHEET: 13 OF 22



"AS-BUILT"

<p>LEGEND</p> <ul style="list-style-type: none">  PRE - CONSTRUCTION SURVEY  TEMPLATE  AS-BUILT RIPRAP SURVEY  FLOTATION AS-BUILT SURVEY  ENCAPSULATED LIGHTWEIGHT AGGREGATE  RIPRAP 	<p>REVISED BY:</p>	<p>DATE:</p>	<p>New Logo-Model 2.jpg</p> <p style="text-align: center; font-size: small;">Terpan Const LLC.gif</p>	<p>TE-43 GIWW BANK RESTORATION SEGMENT 4 <i>AS-BUILT SURVEY</i> STA 0+06 - 105+78 SECTION VIEWS TERREBONNE PARISH, LOUISIANA</p>
	<p>DATE: 03/26/2014</p>	<p>JOB# 2131032</p>		



"AS-BUILT"

LEGEND	
	PRE - CONSTRUCTION SURVEY
	TEMPLATE
	AS-BUILT RIPRAP SURVEY
	FLOTATION AS-BUILT SURVEY
	ENCAPSULATED LIGHTWEIGHT AGGREGATE
	RIPRAP

REVISED BY:	DATE:
HORIZONTAL SCALE	
VERTICAL SCALE	
DATE: 03/26/2014	JOB# 2131032

New Logo-Model 2.jpg

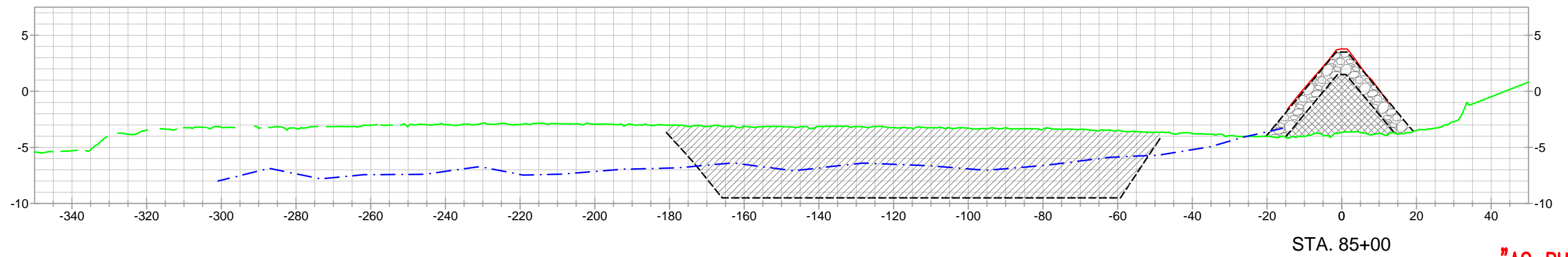
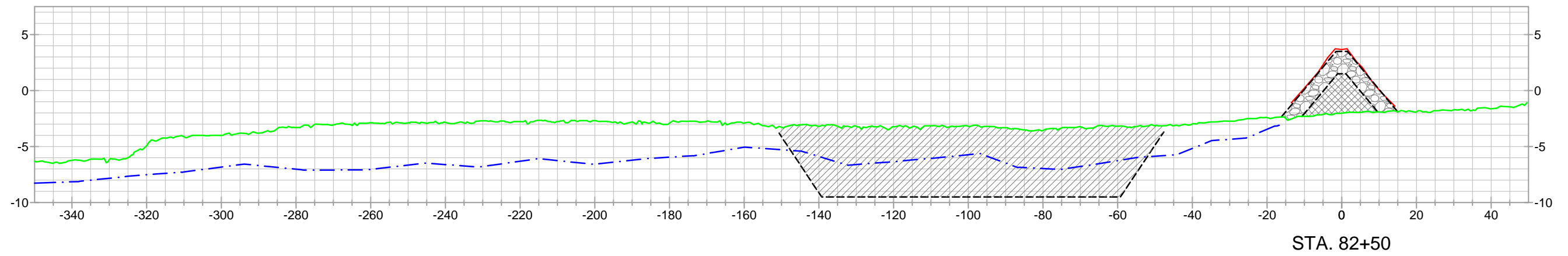
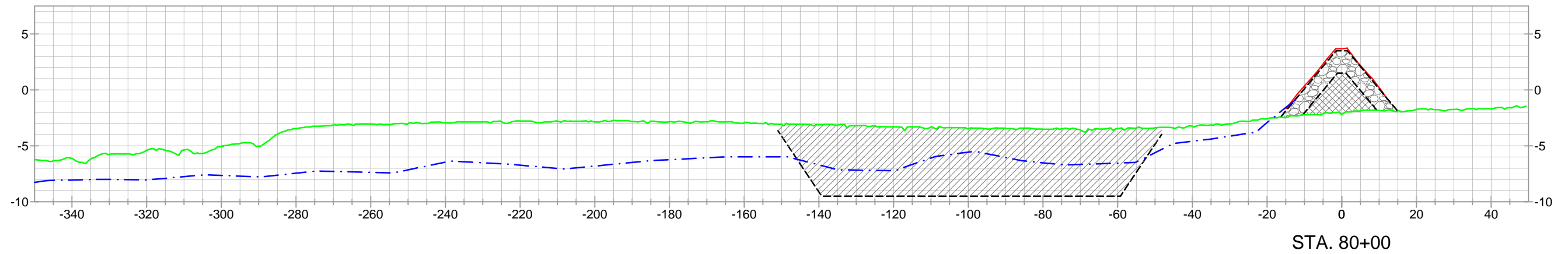
Tarpan Const LLC

**TE-43 GIWW BANK RESTORATION
SEGMENT 4
AS-BUILT SURVEY
STA 0+06 - 105+78
SECTION VIEWS
TERREBONNE PARISH, LOUISIANA**

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

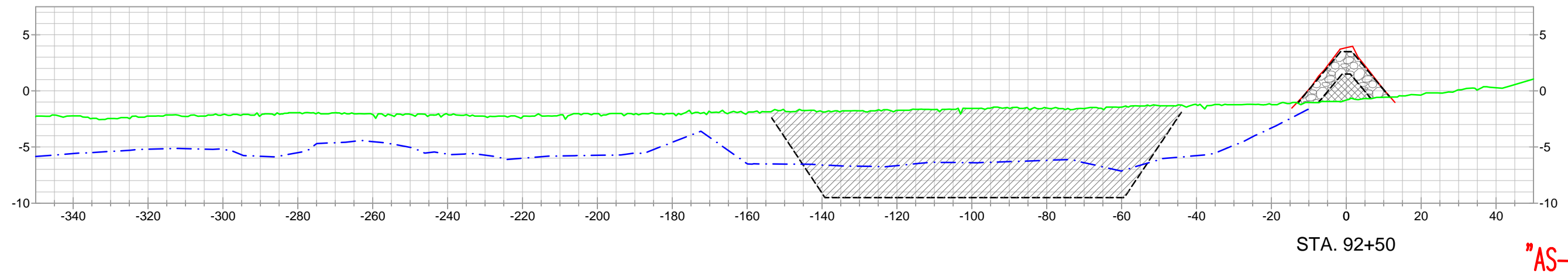
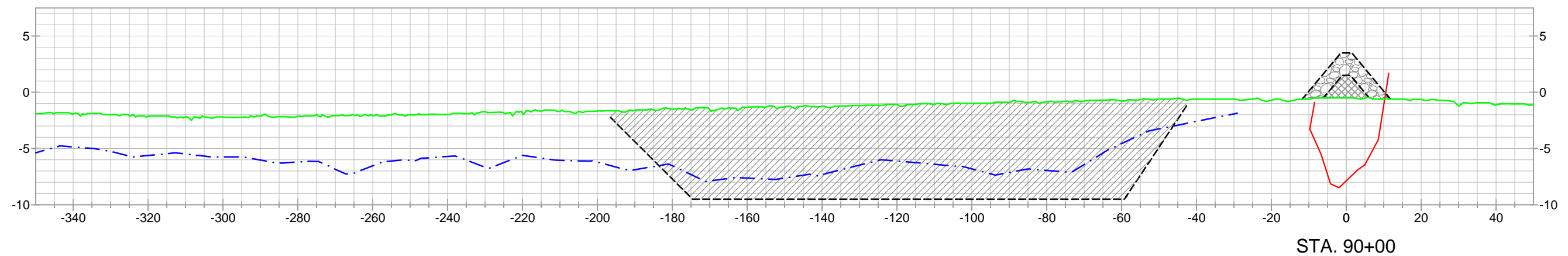
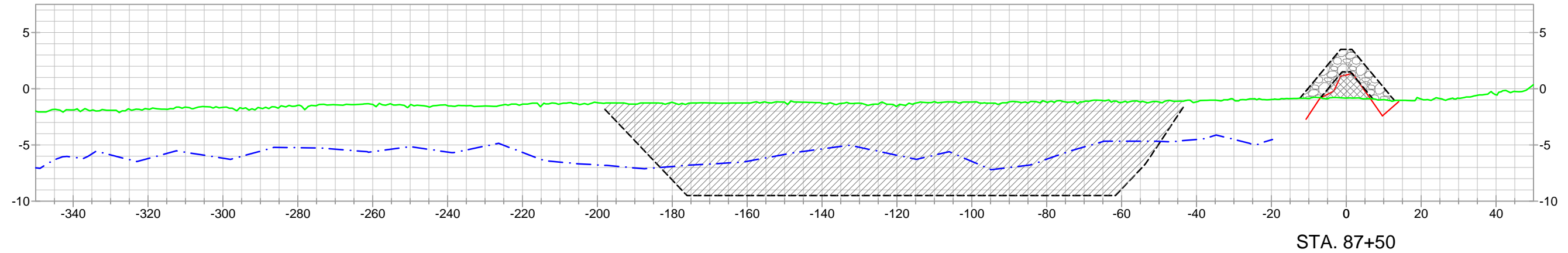
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SHEET: 15 OF 22



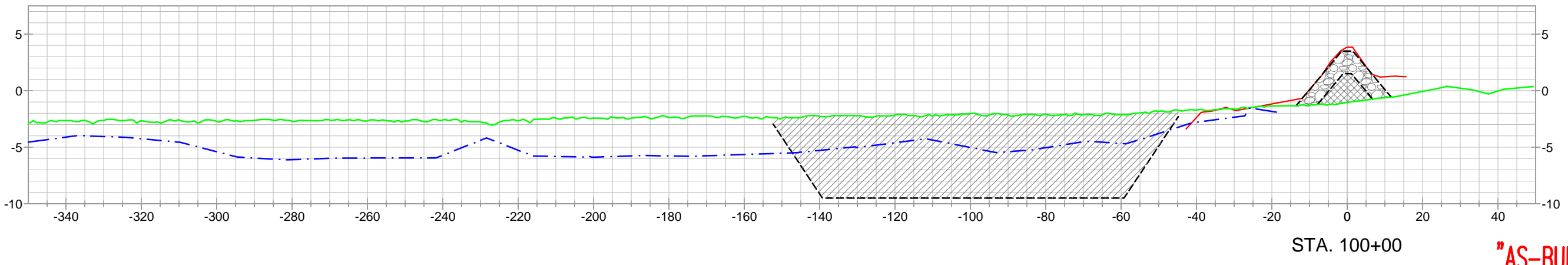
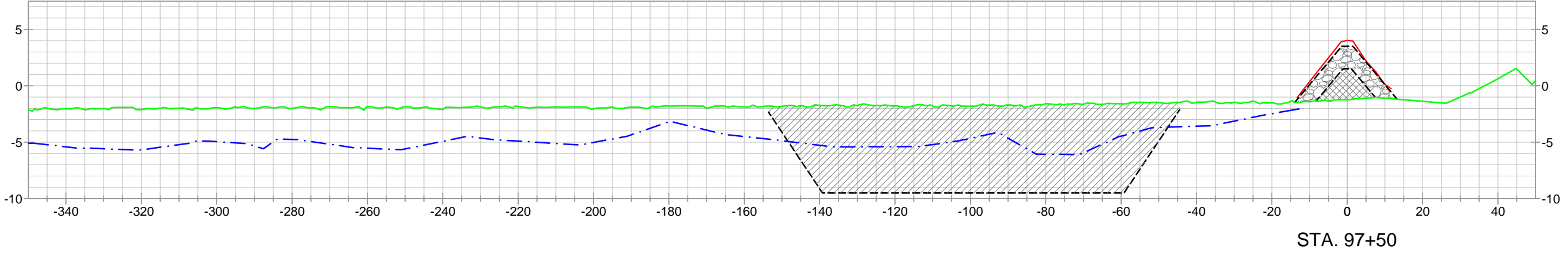
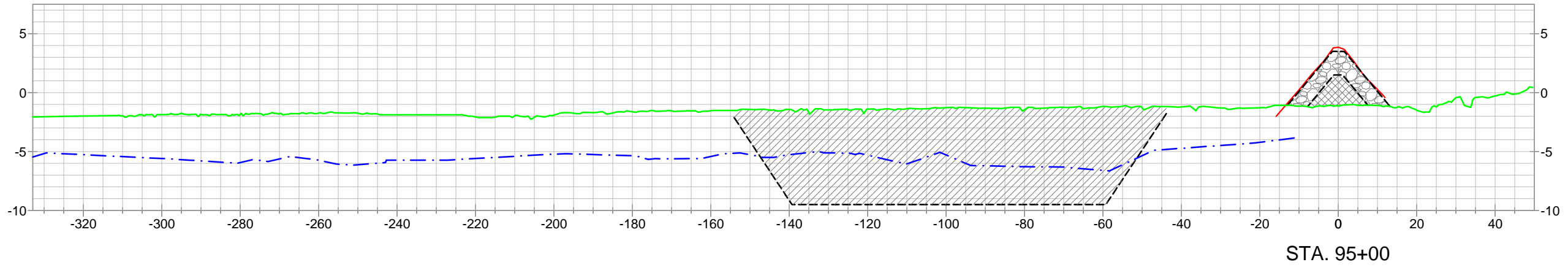
"AS-BUILT"

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	<p>HORIZONTAL SCALE</p>			
	<p>VERTICAL SCALE</p>			
	DATE: 03/26/2014	JOB# 2131032		
			FILE: Segment 4 - As-Built Survey (0+06 - 105+78) (03-26-14).dwg	SHEET: 16 OF 22



"AS-BUILT"

<p>LEGEND</p> <ul style="list-style-type: none"> PRE - CONSTRUCTION SURVEY TEMPLATE AS-BUILT RIPRAP SURVEY FLOTATION AS-BUILT SURVEY ENCAPSULATED LIGHTWEIGHT AGGREGATE RIPRAP 	REVISED BY:	DATE:	<p>New Logo-Model 2.jpg</p> <p><small>Tarpan Const LLC</small></p>	<p>TE-43 GIWW BANK RESTORATION SEGMENT 4 <i>AS-BUILT SURVEY</i> STA 0+06 - 105+78 SECTION VIEWS TERREBONNE PARISH, LOUISIANA</p>
	<p>HORIZONTAL SCALE</p>			
	<p>VERTICAL SCALE</p>			
	DATE: 03/26/2014	JOB# 2131032		
			FILE: Segment 4 - As-Built Survey (0+06 - 105+78) (03-26-14).dwg	SHEET: 17 OF 22



LEGEND	
	PRE - CONSTRUCTION SURVEY
	TEMPLATE
	AS-BUILT RIPRAP SURVEY
	FLOTATION AS-BUILT SURVEY
	ENCAPSULATED LIGHTWEIGHT AGGREGATE
	RIPRAP

REVISED BY:	DATE:
HORIZONTAL SCALE	
VERTICAL SCALE	
DATE: 03/26/2014	JOB# 2131032

New Logo-Model 2.jpg

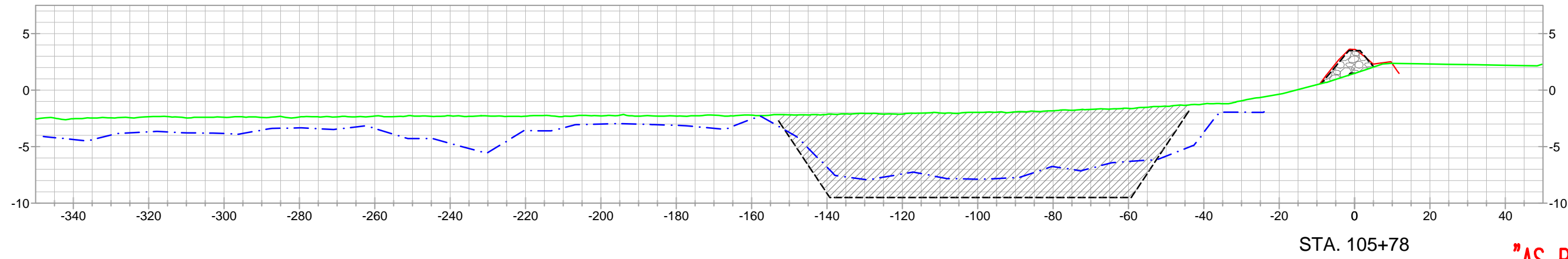
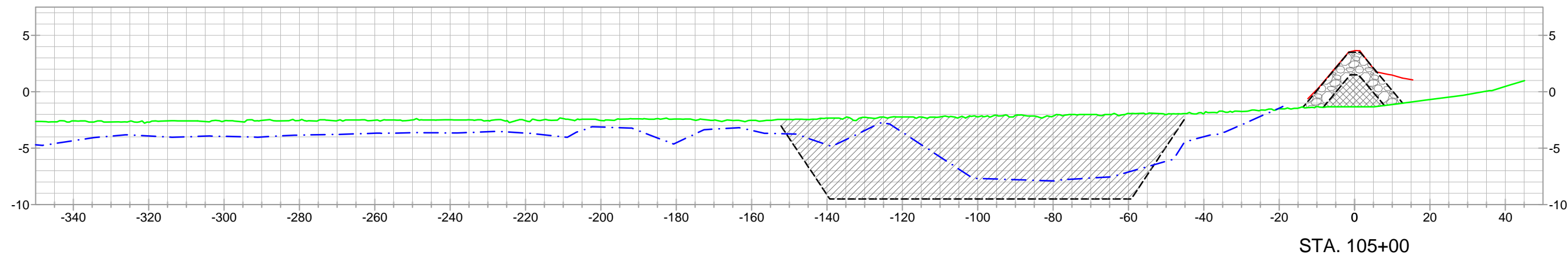
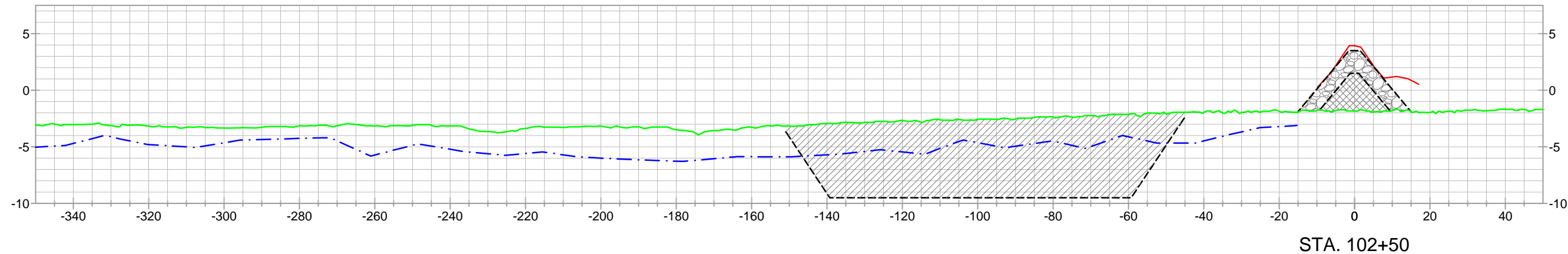
Tarpan Const LLCgif

**TE-43 GIWW BANK RESTORATION
SEGMENT 4
AS-BUILT SURVEY
STA 0+06 - 105+78
SECTION VIEWS
TERREBONNE PARISH, LOUISIANA**

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Segment 4 - As-Built Survey (0+06 - 105+78) (03-26-14).dwg

SHEET: 18 OF 22



"AS-BUILT"

LEGEND	
	PRE - CONSTRUCTION SURVEY
	TEMPLATE
	AS-BUILT RIPRAP SURVEY
	FLOTATION AS-BUILT SURVEY
	ENCAPSULATED LIGHTWEIGHT AGGREGATE
	RIPRAP

REVISED BY:	DATE:
HORIZONTAL SCALE	
VERTICAL SCALE	
DATE: 03/26/2014	JOB# 2131032

New Logo-Model 2.jpg

Terpan Const LLC

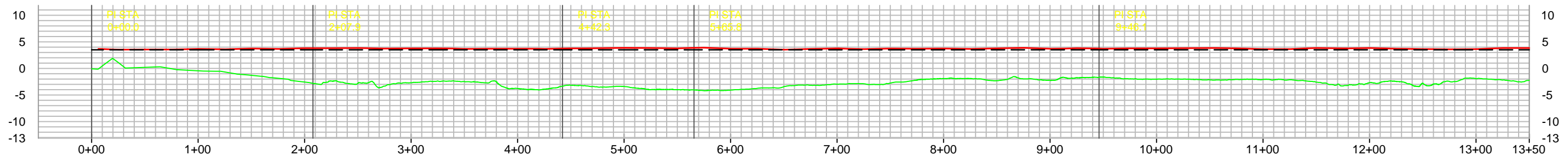
**TE-43 GIWW BANK RESTORATION
SEGMENT 4
AS-BUILT SURVEY
STA 0+06 - 105+78
SECTION VIEWS
TERREBONNE PARISH, LOUISIANA**

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

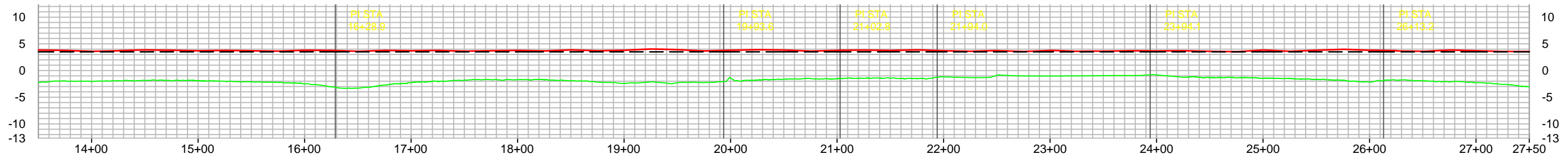
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SHEET: 19 OF 22

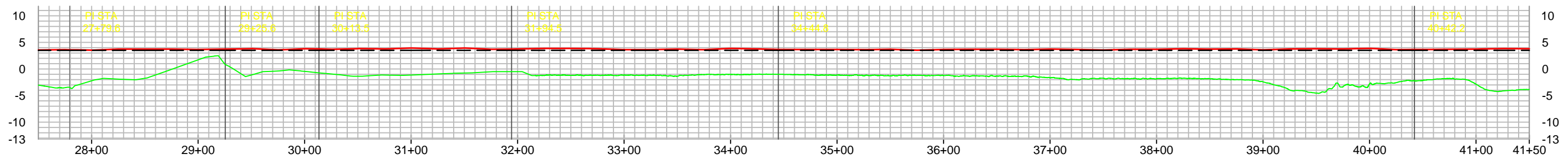
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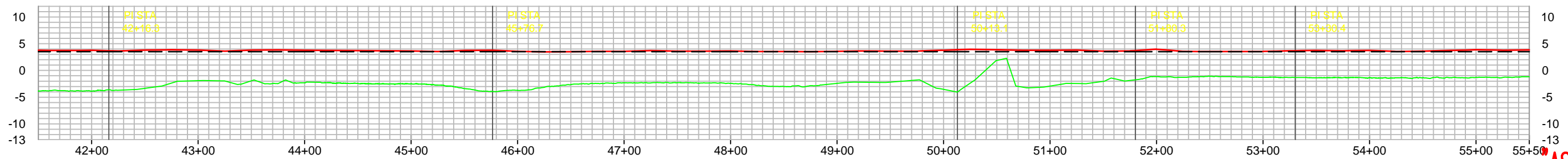
SEGMENT 4 CENTERLINE



SEGMENT 4 CENTERLINE



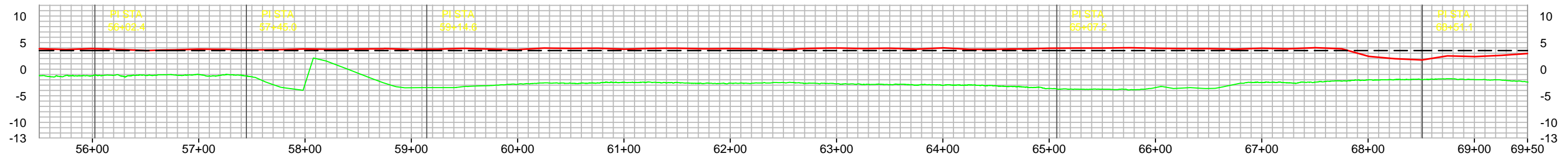
SEGMENT 4 CENTERLINE



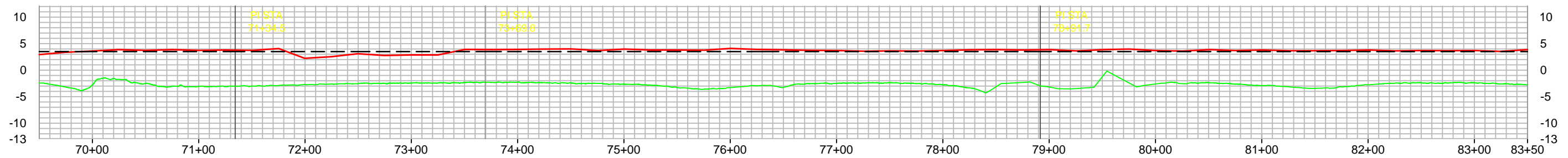
AS-BUILT

<p>LEGEND</p> <ul style="list-style-type: none"> PRE - CONSTRUCTION SURVEY TEMPLATE PI STATION AS-BUILT RIPRAP SURVEY 	<p>REVISED BY:</p>	<p>DATE:</p>	<p>New Logo-Model 2.jpg</p> <p style="text-align: center; font-size: small;">Tarpan Const LLC.gif</p>	<p>TE-43 GIWW BANK RESTORATION</p> <p>SEGMENT 4</p> <p><i>AS-BUILT SURVEY</i></p> <p>STA 0+06 - 105+78</p> <p>PROFILE VIEWS</p> <p>TERREBONNE PARISH, LOUISIANA</p>	
	<p>HORIZONTAL SCALE</p>				<p>PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583</p>
	<p>VERTICAL SCALE</p>				
					<p>JOB# 2131032</p>

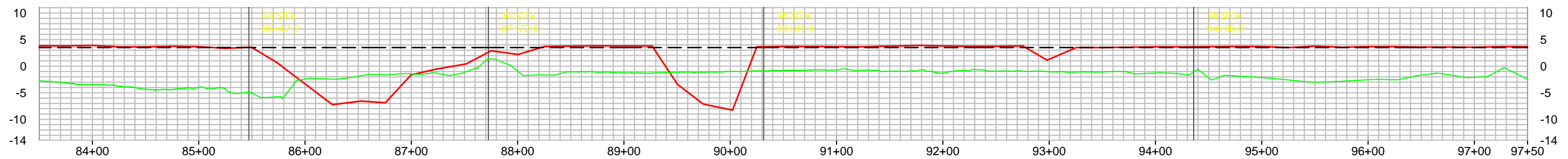
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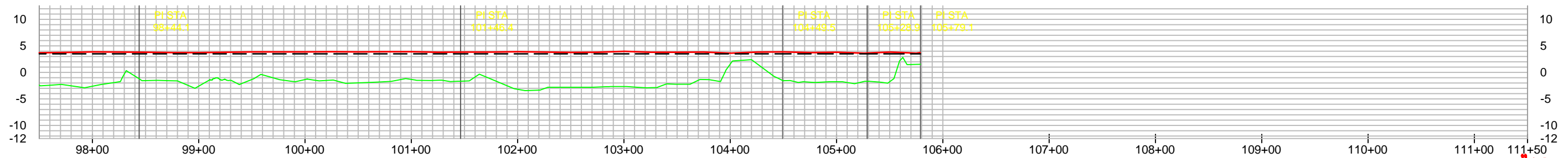
SEGMENT 4 CENTERLINE



SEGMENT 4 CENTERLINE



SEGMENT 4 CENTERLINE



"AS-BUILT"

<p>LEGEND</p> <ul style="list-style-type: none"> PRE - CONSTRUCTION SURVEY TEMPLATE PI STATION AS-BUILT RIPRAP SURVEY 	<p>REVISED BY:</p>	<p>DATE:</p>	<p>New Logo-Model 2.jpg</p> <p style="text-align: center; font-size: small;">Tarpan Const LLC</p>	<p>TE-43 GIWW BANK RESTORATION</p> <p>SEGMENT 4</p> <p><i>AS-BUILT SURVEY</i></p> <p>STA 0+06 - 105+78</p> <p>PROFILE VIEWS</p> <p>TERREBONNE PARISH, LOUISIANA</p>	
	<p>HORIZONTAL SCALE</p>				<p>PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583</p>
	<p>VERTICAL SCALE</p>				
					<p>JOB# 2131032</p>

AS-BUILT LOCATIONS FOR PERMANENT WARNING SIGNS					AS-BUILT LOCATIONS FOR PERMANENT WARNING SIGNS (ADDITIVE ALTERNATE BID NO. 1)				
NAME	NORTHING	EASTING	SIGN ELEVATION (US FT)	PILE ELEVATION (US FT)	NAME	NORTHING	EASTING	SIGN ELEVATION (US FT)	PILE ELEVATION (US FT)
PS-1	389827	3401852	9.6	10.0	PSA-1	390047	3402167	9.4	10.0
PS-2	390043	3401893	10.5	11.1	PSA-2	389745	3402562	9.4	10.0
PS-3	389900	3402391	9.7	10.2	PSA-3	389497	3402945	9.6	10.1
PS-4	389604	3402774	9.7	10.2	PSA-4	389233	3403251	9.7	10.2
PS-5	389380	3403126	9.6	10.0	PSA-5	388946	3403448	9.6	10.0
PS-6	389102	3403375	9.5	10.1	PSA-6	388729	3403790	9.7	10.1
PS-7	388795	3403576	9.5	10.1	PSA-7	388497	3404037	9.7	10.1
PS-8	388715	3403965	10.5	11.0	PSA-8	388193	3404302	9.5	10.0
PS-9	388357	3404129	9.6	10.1	PSA-9	388135	3404786	9.4	10.0
PS-10	388160	3404541	9.4	10.1	PSA-10	388192	3405178	9.6	10.1
PS-11	388251	3404994	9.5	10.0	PSA-11	388017	3405544	9.3	10.0
PS-12	388134	3405343	9.6	10.1	PSA-12	387698	3405725	9.4	9.9
PS-13	387896	3405727	9.5	10.2	PSA-13	387514	3406101	9.6	10.1
PS-14	387554	3405888	9.6	10.1	PSA-14	387540	3406478	9.5	10.0
PS-15	387643	3406264	9.6	10.2	PSA-15	387156	3407036	9.5	9.9
PS-16	387371	3406804	10.5	11.0	PSA-16	386860	3407493	9.6	10.1
PS-17	387034	3407326	9.5	10.1	PSA-17	386654	3407935	9.5	10.0
PS-18	386755	3407718	9.5	10.1	PSA-18	386409	3408316	9.5	10.1
PS-19	386539	3408119	9.5	10.1	PSA-19	386076	3408369	9.5	10.0
PS-20	386272	3408516	9.5	10.0	PSA-20	385727	3408550	9.5	10.1
PS-21	385849	3408398	9.5	10.0	PSA-21	385648	3408896	9.6	10.1
PS-22	385625	3408699	9.5	10.0	PSA-22	385560	3409378	9.6	10.1
PS-23	385675	3409097	9.4	10.0					
PS-24	385534	3409696	10.6	11.1					

"AS-BUILT"

REVISED BY:	DATE:	New Logo-Model 2.jpg	TE-43 GIWW BANK RESTORATION SEGMENT 4 AS-BUILT SURVEY STA 0+06 - 105+78 AS-BUILT WARNING SIGN POINT TABLES TERREBONNE PARISH, LOUISIANA
DATE: 03/26/2014	JOB# 2131032	PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583	FILE: Segment 4 - As-Built Survey (0+06 - 105+78) (03-26-14).dwg
			SHEET: 22 OF 22

GENERAL NOTES:

1. THERE ARE NO KNOWN PIPELINES WITHIN THE FOOTPRINT OF THE PROJECT AREA. IT IS POSSIBLE THAT SOME PIPELINES AND/OR UTILITIES EXIST THAT HAVE NOT BEEN SHOWN. THE CONTRACTOR SHALL BE ON ALERT FOR SUCH PIPELINES OR UTILITIES, AND SHALL REPORT THEM IMMEDIATELY TO THE CONTRACTING OFFICER (CO). THE CONTRACTOR SHALL NOTIFY LOUISIANA ONE CALL (LA ONE CALL) AT 1-800-272-3020 72 HOURS PRIOR TO DIGGING OR DRIVING PILING IN ORDER TO LOCATE UTILITY LINES.
2. HOURS OF WORK SHALL BE 10 HOURS PER DAY, MONDAY THRU SATURDAY.
3. THE CONTRACTOR SHALL NOTIFY THE EIGHTH COAST GUARD DISTRICT SO THAT A NOTICE TO MARINERS MAY BE PREPARED AS REQUIRED. NOTIFICATION, WITH A COPY OF THE PERMIT APPROVAL AND DRAWINGS, SHOULD BE MAILED TO THE FOLLOWING ADDRESS WITHIN 48 HOURS OF ISSUANCE OF THE NOTICE TO PROCEED
 CDR 8TH COAST GUARD DISTRICT (DPW)
 HALE BOGGS FEDERAL BLDG.
 500 POYDRAS ST. SUITE 1230
 NEW ORLEANS, LA. 70130-3396
 E-MAIL NOTIFICATION MUST ALSO BE PROVIDED TO THE EIGHTH COAST GUARD DISTRICT, AIDS TO NAVIGATION BRANCH, MARINE INFORMATION OFFICE 7 TO 10 DAYS PRIOR TO DREDGING OR CONSTRUCTION OPERATIONS. THE MARINE INFORMATION OFFICE MAY BE REACHED BY E-MAIL AT D8MARINEINFO@D8.USCG.MIL. TELEPHONE INQUIRIES CAN BE DIRECTED TO 504-671-2327. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION OF THE NOTIFICATION TO THE CO PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
4. ALL ELEVATIONS STATED IN THE PLANS AND SPECIFICATIONS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEOID99. ALL HORIZONTAL DATUM REFERENCES REFER TO NORTH AMERICAN DATUM OF 1983 (NAD83). ALL SURVEYS PERFORMED SHALL UTILIZE THESE DATUMS AND BE CONDUCTED IN STATE PLANE FEET COORDINATE SYSTEM, LOUISIANA SOUTH ZONE.
5. BENCHMARK 'TE43-SM-C' LOCATED AT NORTHING 383,893.93, EASTING 3,412,721.49 SHALL BE USED FOR HORIZONTAL AND VERTICAL POSITIONING.
6. MEAN HIGH WATER (MHW) OF +2.1' AND MEAN LOW WATER (MLW) OF +1.4' HAVE BEEN DETERMINED FOR THIS PROJECT AND ARE BASED ON US GEOLOGICAL SURVEY GAUGE #07381331 ON THE GIWW AT HOUMA. LA AND STATE OF LOUISIANA COASTWIDE REFERENCE MONITORING SYSTEM (CRMS) GAUGE #5035-H01. WATER ELEVATIONS ARE SHOWN IN NAVD88, GEOID99. THE CONTRACTOR IS ADVISED THAT THE MHW AND MLW ARE AVERAGES AND DAILY TIDAL FLUCTUATIONS MAY VARY SIGNIFICANTLY FROM THESE VALUES DEPENDING ON TIDE LEVELS AND WEATHER.
7. THE CONTRACTOR IS ADVISED THAT TIDAL FLUCTUATIONS IN THIS AREA WILL VARY DUE TO WEATHER AND DAILY TIDES. HISTORICAL TIDE DATA CAN BE OBTAINED FROM THE US ARMY CORPS OF ENGINEERS OR THE US GEOLOGICAL SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR TAKING THE APPROPRIATE MEASURES TO INSURE THAT TIDAL FLUCTUATIONS DO NOT INTERFERE WITH THE PROSECUTION OF THE CONTRACT.
8. THE CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS FOR ACCURACY AND COMPLETENESS. ANY DISCREPANCIES, ERRORS, OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER (CO) PRIOR TO THE BID DUE DATE.
9. THE CONTRACTOR SHALL CONDUCT SURVEYS OF THE PROJECT AREA PRIOR TO CONSTRUCTION. THE SURVEYS SHALL BE USED TO VERIFY THE QUANTITIES AND ALIGNMENTS DETERMINED BY NRCS. SURVEYS TAKEN SHALL BE CONDUCTED AS DETAILED IN THE SPECIFICATIONS AND INCLUDE THE CENTERLINE OF THE PLANNED DIKE ALIGNMENT AND TRANSECTS EXTENDING FROM DIKE FOOTPRINT ON THE BANK SIDE TO THE GIWW SIDE OF THE PLANNED SPOIL PLACEMENT AREAS.

10. A MAGNETOMETER SURVEY SHALL BE CONDUCTED AS DETAILED IN THE SPECIFICATIONS AT ALL LOCATIONS WHERE EXCAVATION AND PLACEMENT ACTIVITIES WILL TAKE PLACE. A MAGNETOMETER SURVEY WAS CONDUCTED IN THE PROJECT AREA IN 2003. DATA FROM THAT SURVEY IS AVAILABLE UPON REQUEST.
11. A 90 DAY WAITING PERIOD SHALL BE REQUIRED BETWEEN THE FIRST LIFT OF RIPRAP PLACED AND ANY SUBSEQUENT LIFTS.

SUMMARY OF BID QUANTITIES				
ITEM NO.	WORK	SPEC NO.	QUANTITY	UNIT
1	MOBILIZATION AND DEMOBILIZATION	8	1	JOB
2	POLLUTION CONTROL	5	1	JOB
3	CONSTRUCTION SURVEYS	7	1	JOB
4	CONTRACTOR QUALITY CONTROL	94	1	JOB
5	LIGHTWEIGHT AGGREGATE ENCAPSULATED	25	15,000 13,702.6	CY
6	EXCAVATION, ACCESS DREDGING	21	1	JOB
7	ROCK RIPRAP	61	50,000 65,951	TON
8	GEOTEXTILE	95	40,650 43,132.5	SY
9	METAL FABRICATION, SETTLEMENT PLATES	84	9	EA
10	TEMPORARY WARNING SIGNS	93	18	EA
11	PERMANENT WARNING SIGNS	93	24	EA
12	PERMANENT WARNING SIGNS (ADDITIVE ALTERNATE NO. 1)	93	22	EA

"AS-BUILT"



Date: 12/12
 Designed: D. GILLEN
 Drawn: D. WILLMORE
 Checked: J. PELTO
 Approved: M. GILFORD

GENERAL NOTES
 SEGMENT 4
 TE-43 - GIWW BANK RESTORATION
 TERREBONNE PARISH, LOUISIANA



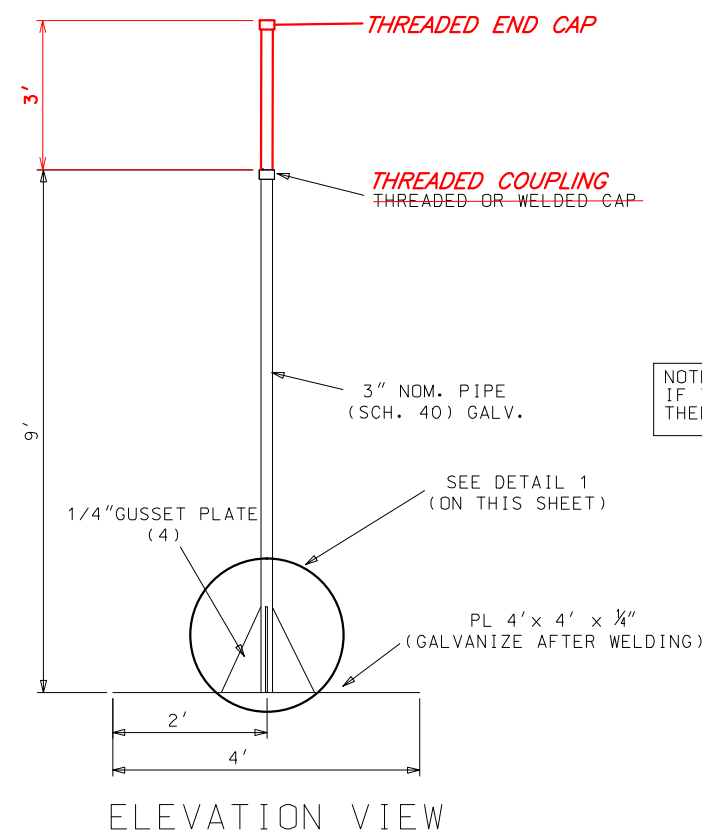
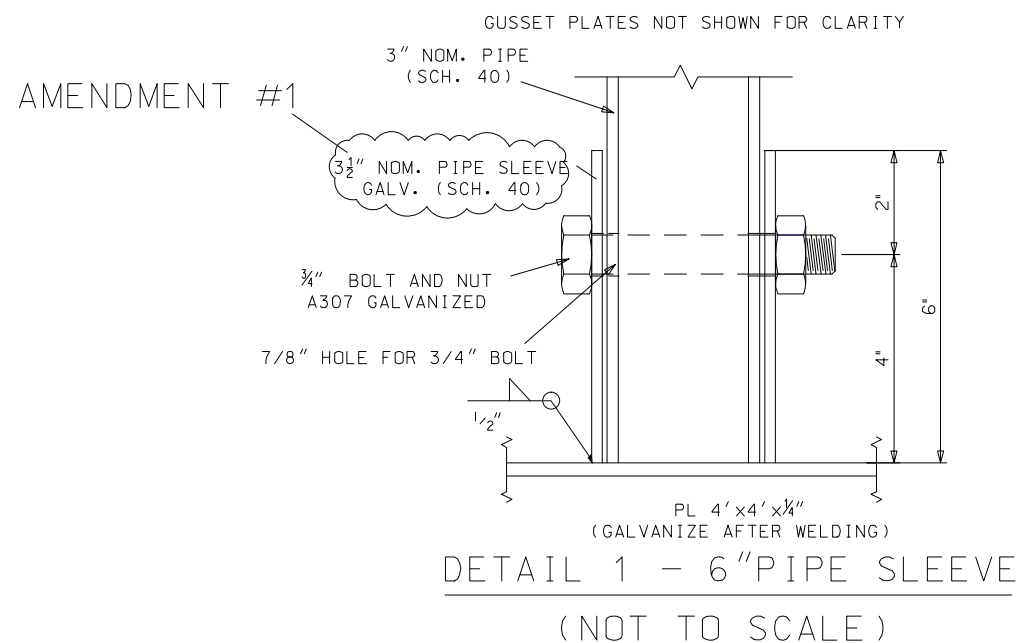
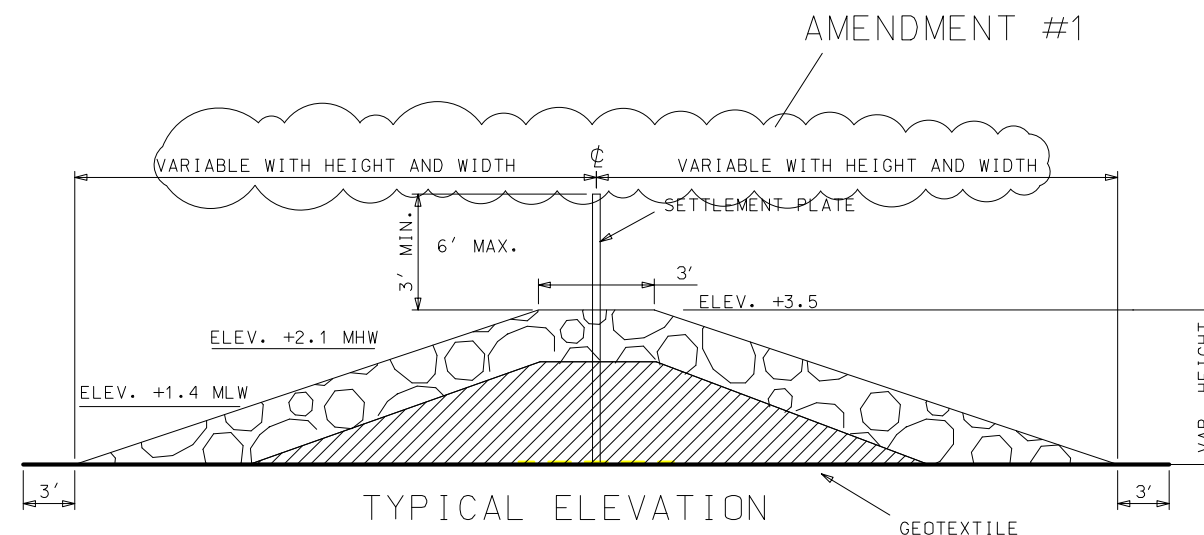
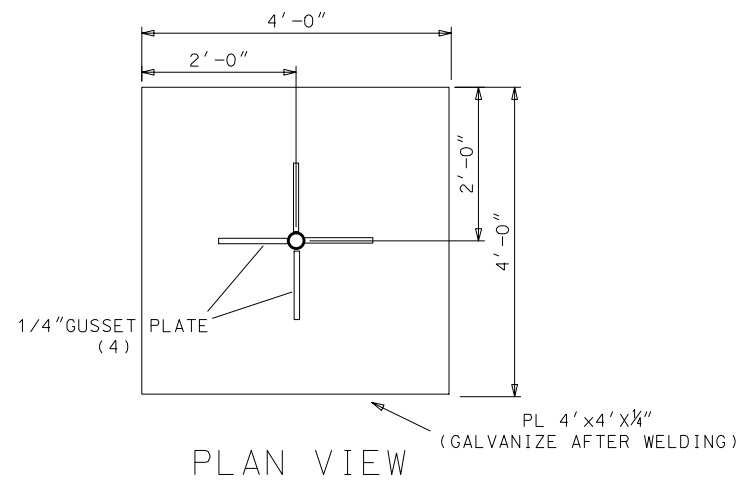
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Drawing No.

NOTICE:
72 HOURS BEFORE DIGGING
CALL 1-800-272-3020
TO LOCATE UTILITY LINES

SP #	NORTHING	EASTING
23	390028	3402143
24	389458	3402956
25	388728	3403700
26	388129	3404620
27	387980	3405559
28	387527	3406454
29	387009	3407317
30	386504	3408128
31	385622	3408874

NOTE:
SETTLEMENT PLATE NUMBERING CORRESPONDS
TO BORE HOLE NUMBERING.



NOTE:
IF THREADED CAP IS USED ON COUPLING TO EXTEND PIPE,
THEN COLD GALVANIZE ALL THREADS AFTER INSTALLATION.

"AS-BUILT"



DATE	DESIGNED	DRAWN	CHECKED	APPROVED
12/12	D. GILLEN	D. WILMORE	J. PELTO	M. GILFORD

SETTLEMENT PLATE DETAILS
SEGMENT 4
TE-43 - GIWW BANK RESTORATION
TERREBONE PARISH, LOUISIANA

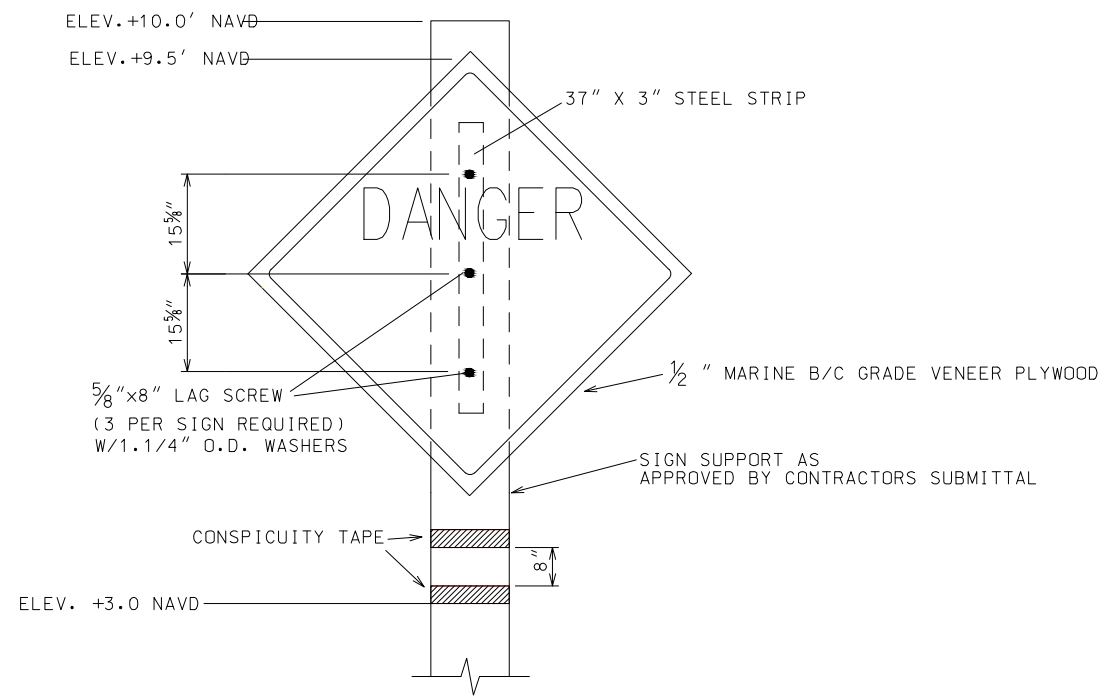


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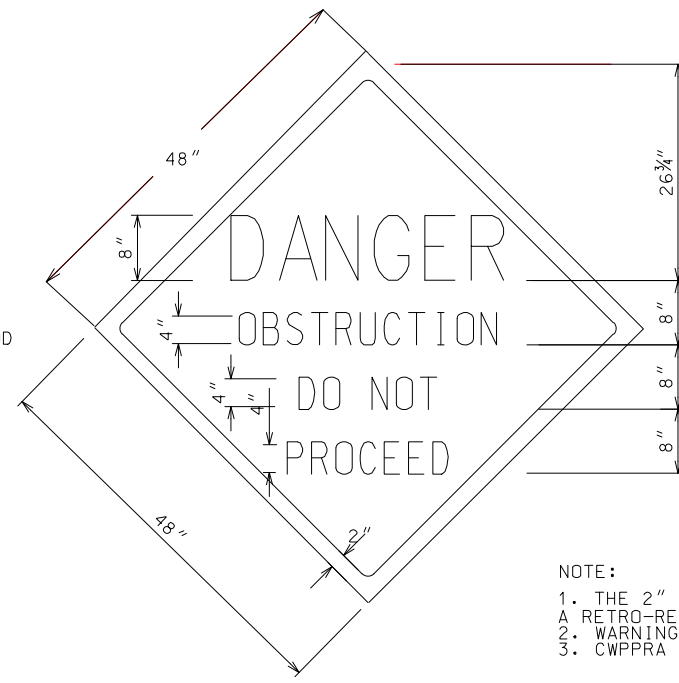
DRAWING NAME

REVISIONS			
NO.	DATE	APPROVED	TITLE
A1	2/13	D.G.	D.E.

SHEET 22A1 of 27



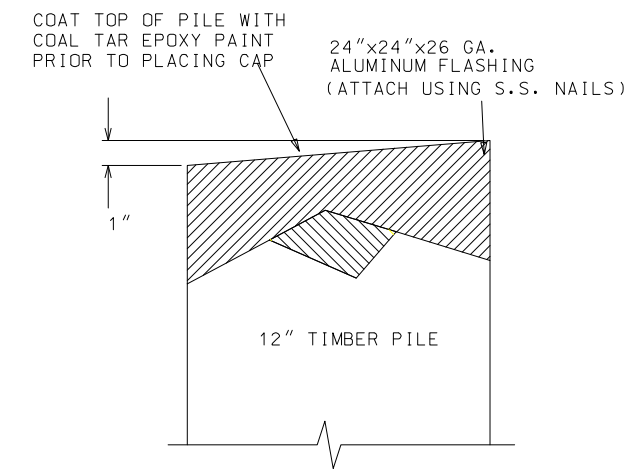
ELEVATION VIEW



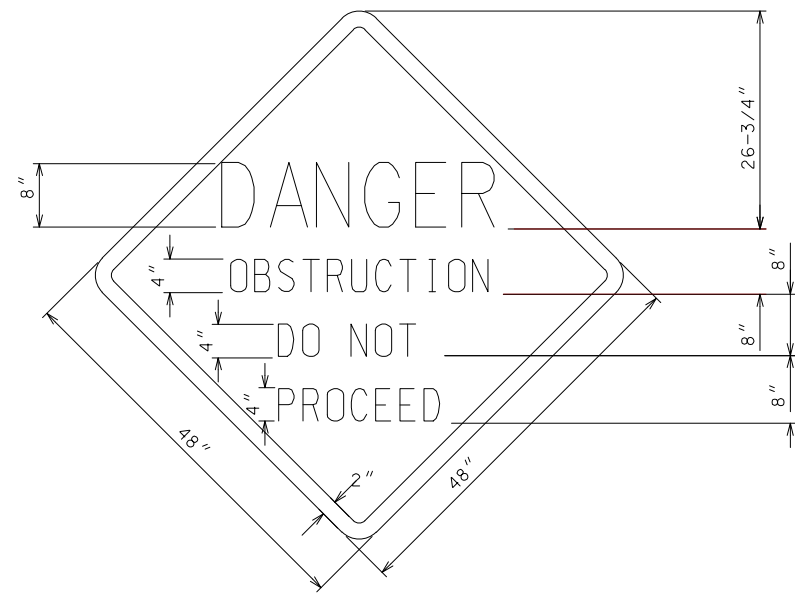
WARNING SIGN DETAILS

TEMPORARY WARNING SIGN DETAILS
TYPE 'A'

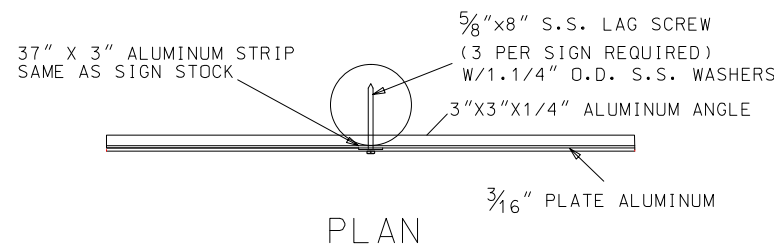
- NOTE:
1. THE 2" BORDER ON THE WARNING SIGN SHALL BE A REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD SHALL BE A RETRO-REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS SHALL BE BLACK.
 2. WARNING SIGNS SHALL BE FACING PERPENDICULAR AND AWAY FROM THE SHORELINE AS CONCURRED IN BY THE COR.
 3. CWPRA SIGNS WILL BE FURNISHED TO THE CONTRACTOR BY NRCS.



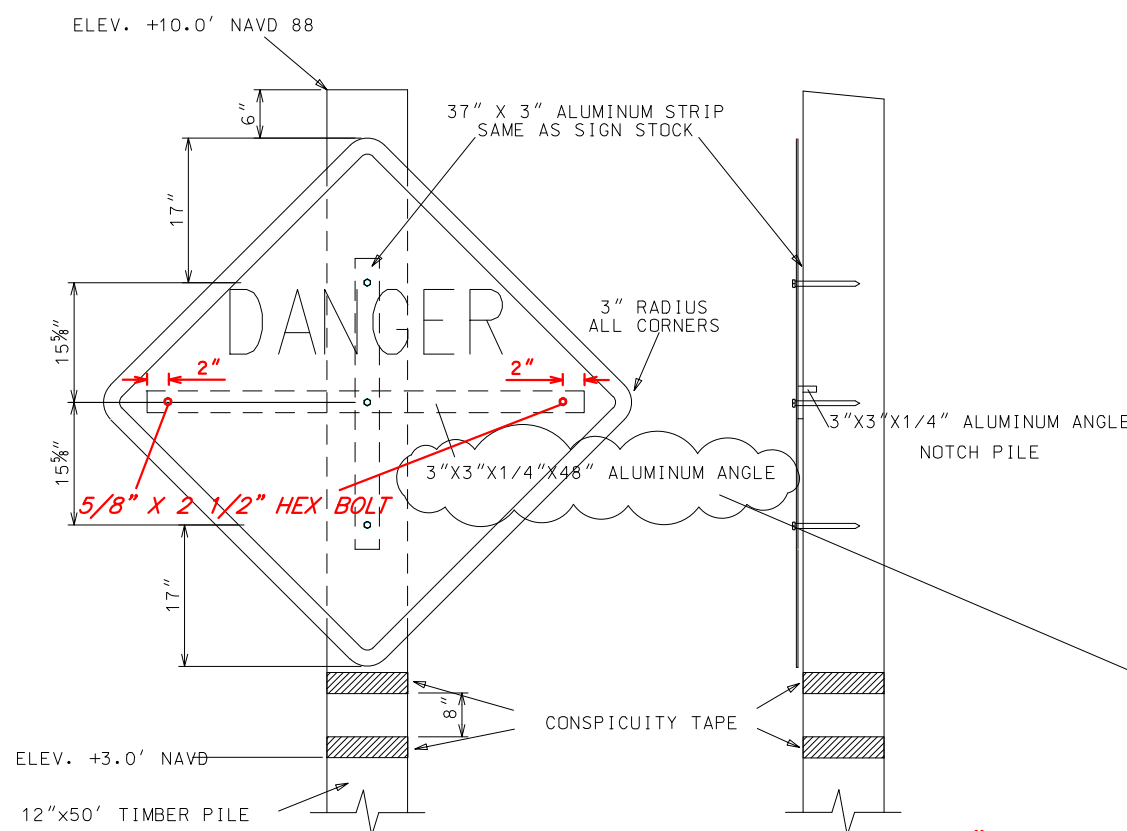
TYPICAL TIMBER PILE CAP
(NOT TO SCALE)



WARNING SIGN DETAILS



PLAN

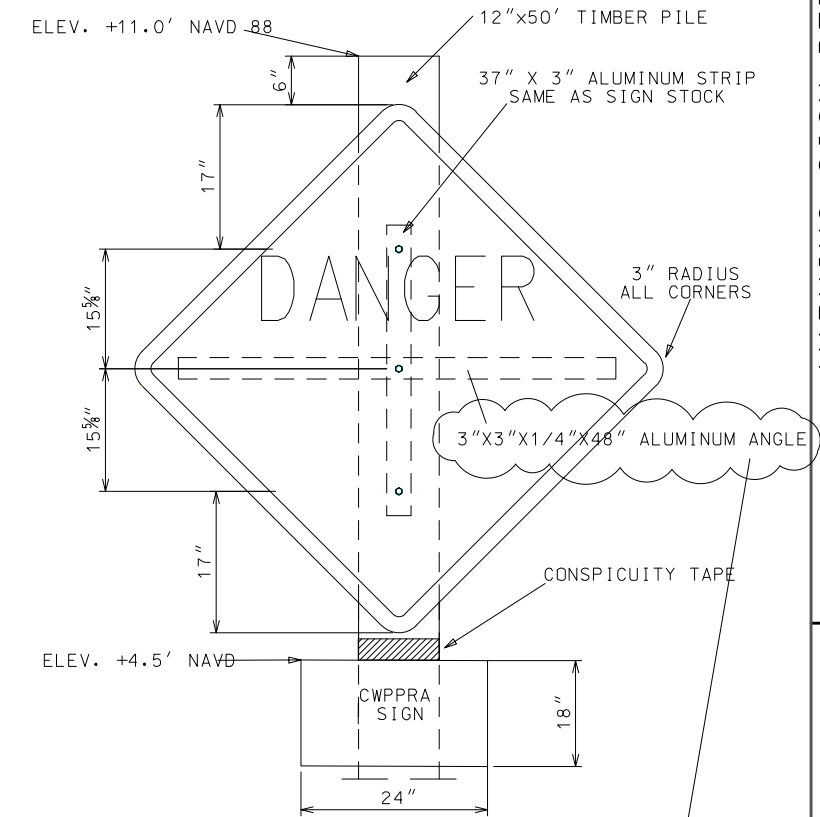


CONNECTION DETAILS

ELEVATION SIDE

PERMANENT WARNING SIGN DETAILS
TYPE 'B'

"AS-BUILT"



PERMANENT WARNING SIGN DETAILS
TYPE 'C'

MODIFICATION #2



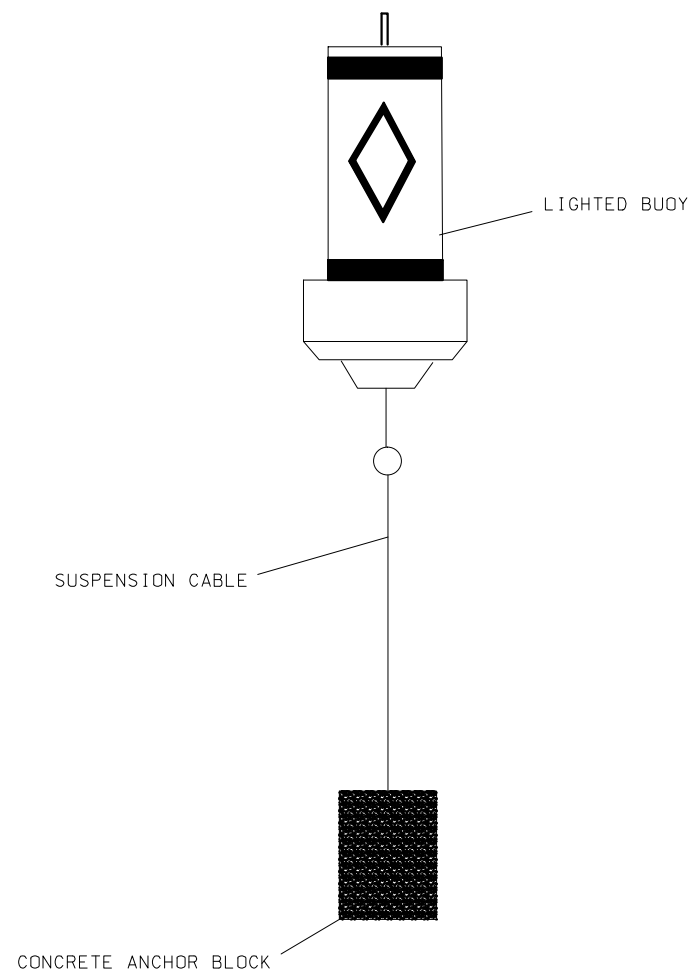
REVISIONS		
DATE	APPROVED	TITLE
6/02	D.G.	P.E.

Date	12/12
Designed	D. GILLEN
Drawn	D. WILMORE
Checked	J. PELTO
Approved	M. GILFORD

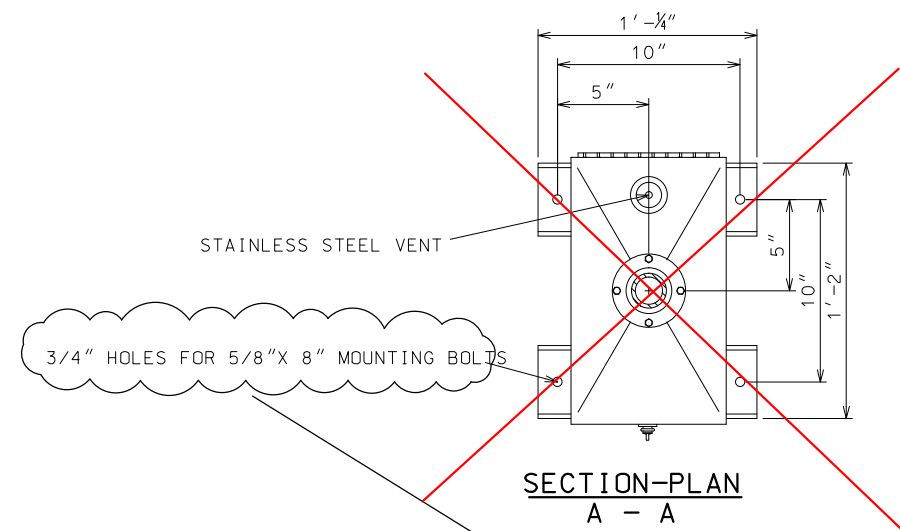
WARNING SIGN DETAILS
SEGMENT 4
TE-43 - GIWW BANK RESTORATION
TERREBONNE PARISH, LOUISIANA



File Name	LA386023M2.DGN
Drawing Name	
Sheet	23M2 of 27

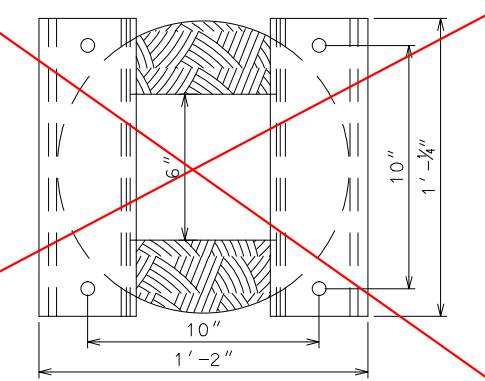


BUOY DETAILS



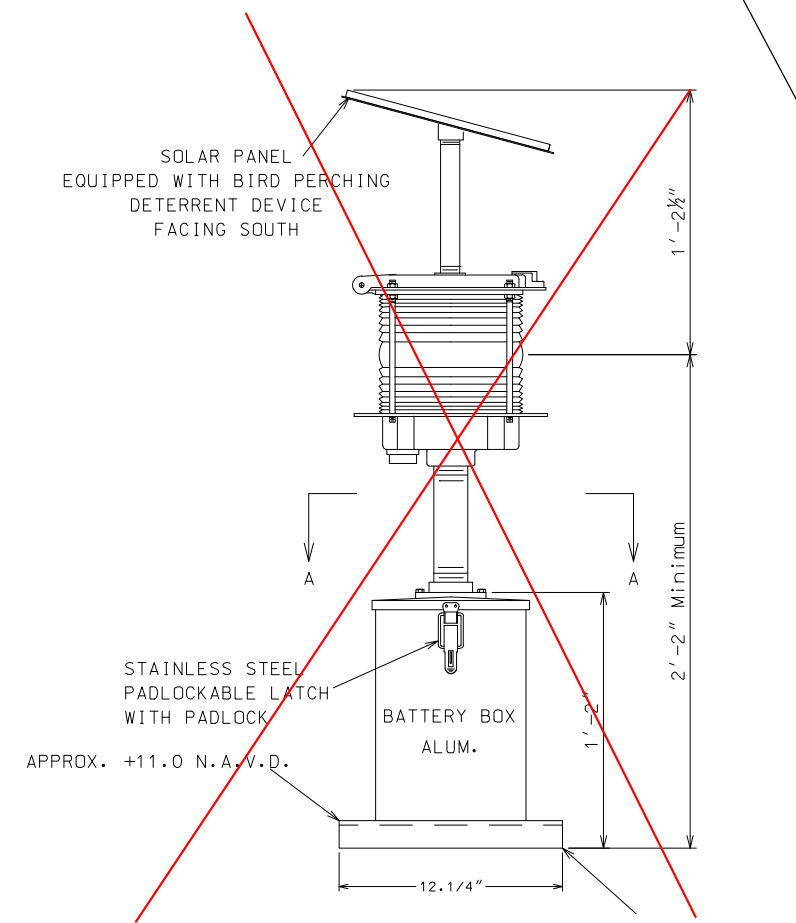
**SECTION-PLAN
A - A**

1. NOTCH ROUND TIMBER PILE FOR FLUSH ALUMINUM MOUNTING BRACKET ATTACHMENT.
2. HOLES IN ALUMINUM SHALL BE 1/8" OVERSIZE AND HOLES IN ROUND TIMBER PILE SHALL BE 1/8" OVERSIZE FOR THEIR CORRESPONDING BOLTS.

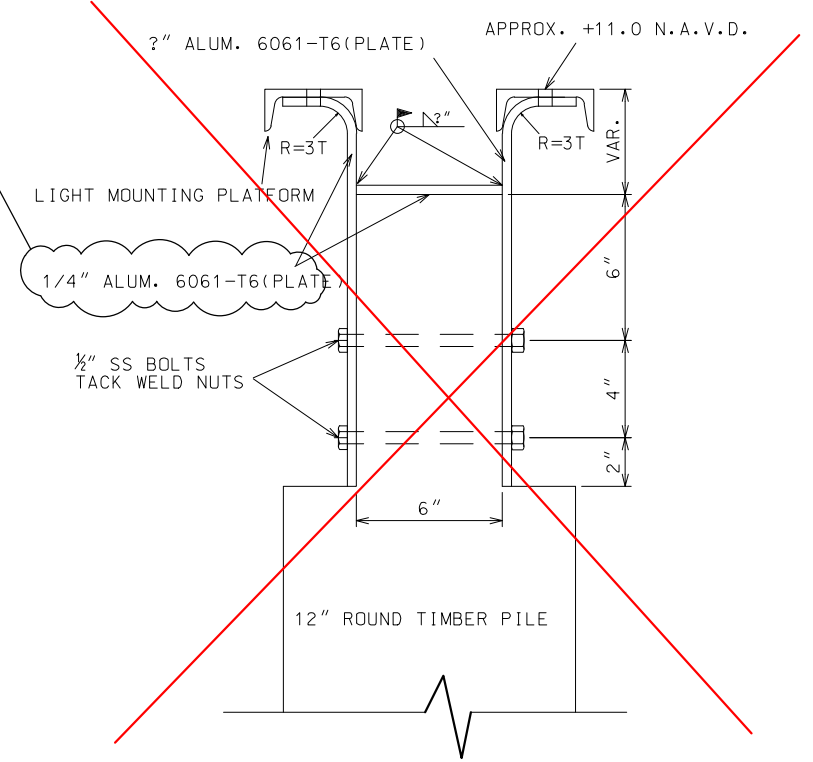


PLAN

AMENDMENT #1



**ELEVATION
2.5 SEC. DAYLIGHT
ALUM.**



**ELEVATION
MOUNTING DETAILS-2.5 SEC. DAYLIGHT
ALUM.**

"AS-BUILT"

- NOTES: 1. BUOYS SHOULD BE USCG APPROVED WITH 1 NAUTICAL MILE VISIBILITY FLASHING WHITE LIGHT 0.3 SEC ON/2.2 SEC OFF.
2. BUOYS SHALL BE REMOVED AT THE COMPLETION OF CONSTRUCTION.

LIGHT DETAILS

Designed	D. GILLEN	Date	12/12
Drawn	D. WILMORE	Checked	J. PELTO
Approved	M. GILFORD		

**DETAILS - LIGHTED SIGNS & BUOYS
SEGMENT 4
TE-43 - GIWW BANK RESTORATION
TERREBONNE PARISH, LOUISIANA**



File Name	
Drawing Name	LA38624A1.DGN
Sheet	24A1 of 27

REVISIONS		
DATE	APPROVED	TITLE
2/13	D.G.	D.E.



TEMPORARY WARNING SIGNS
TYPE 'A'

TS-1	N390254	E3401931
TS-2	N390257	E3401999
TS-3	N389887	E3402668
TS-4	N389259	E3403475
TS-5	N388861	E3404059
TS-6	N388616	E3404888
TS-7	N388479	E3405108
TS-8	N388172	E3405721
TS-9	N388047	E3405942
TS-10	N387786	E3406895
TS-11	N387265	E3407237
TS-12	N386749	E3408120
TS-13	N386595	E3408570
TS-14	N386506	E3408792
TS-15	N385959	E3408559
TS-16	N385800	E3409258
TS-17	N386074	E3409617
TS-18	N386029	E3409685

PERMANENT WARNING SIGNS
TYPE 'B'

PS-1	N389826	E3401853
PS-3	N389900	E3402389
PS-4	N389604	E3402773
PS-5	N389379	E3403123
PS-6	N389102	E3403375
PS-7	N388795	E3403574
PS-9	N388357	E3404128
PS-10	N388162	E3404539
PS-11	N388050	E3404997
PS-12	N388135	E3405342
PS-13	N387897	E3405724
PS-14	N387554	E3405889
PS-15	N387643	E3406262
PS-17	N387035	E3407323
PS-18	N386755	E3407714
PS-19	N386536	E3408119
PS-20*	N386271	E3408513
PS-21	N385850	E3408394
PS-22	N385627	E3408699
PS-23	N385672	E3409099

* - LIGHTED SIGNS

PERMANENT WARNING SIGNS
TYPE 'C'

PS-2*	N390043	E3401893
PS-8	N388717	E3403963
PS-16	N387371	E3406802
PS-24*	N385537	E3409694

MODIFICATION #2 CHANGE LIGHTED SIGNS

ADDITIVE ALTERNATE NO.1

PERMANENT WARNING SIGNS
TYPE 'B'

PSA-1	N390047	E3402167
PSA-2	N389743	E3402561
PSA-3	N389492	E3402945
PSA-4	N389234	E3403252
PSA-5	N388948	E3403448
PSA-6	N388724	E3403788
PSA-7	N388496	E3404035
PSA-8	N388190	E3404300
PSA-9	N388134	E3404788
PSA-10	N388194	E3405177
PSA-11	N388021	E3405537
PSA-12	N387698	E3405725
PSA-13	N387512	E3406101
PSA-14	N387541	E3406476
PSA-15	N387159	E3407037
PSA-16	N386858	E3407488
PSA-17	N386653	E3407932
PSA-18	N386410	E3408315
PSA-19	N386077	E3408370
PSA-20	N385731	E3408547
PSA-21	N385645	E3408897
PSA-22	N385557	E3409380

NOTE:
PSA-1 THROUGH PSA-22 WILL ONLY BE INSTALLED
IF ADDITIVE ALTERNATE NO.1 IS ACCEPTED

NOTE:
TEMPORARY WARNING SIGNS SHALL BE INSTALLED AT THE
LOCATIONS LISTED ABOVE OR AT LOCATIONS DIRECTED BY
THE CDR.

LIGHTED BUOYS
AMENDMENT #1

B-1	N390359	E3401956
B-2	N390326	E3402017
B-3	N388762	E3404913
B-4	N388644	E3405136
B-5	N388315	E3405741
B-6	N388190	E3405965
B-7	N386790	E3408630
B-8	N386681	E3408844
B-9	N386267	E3409618
B-10	N386248	E3409685

SEE SHEET 22 FOR
SIGN LOCATIONS

"AS-BUILT"



REVISIONS			
DATE	APPROVED	TITLE	
6/02	D.C.	P.E.	

Designed	D. GILLEN	Date	12/12
Drawn	D. WILLMORE		12/12
Checked	J. PELTD		12/12
Approved	M. GILFORD		12/12

WARNING SIGN & BUOY LOCATIONS
SEGMENT 4
TE-43 - GIWW BANK RESTORATION
TERREBONNE PARISH, LOUISIANA



File No.
A386025M2.dwg

Drawing No.