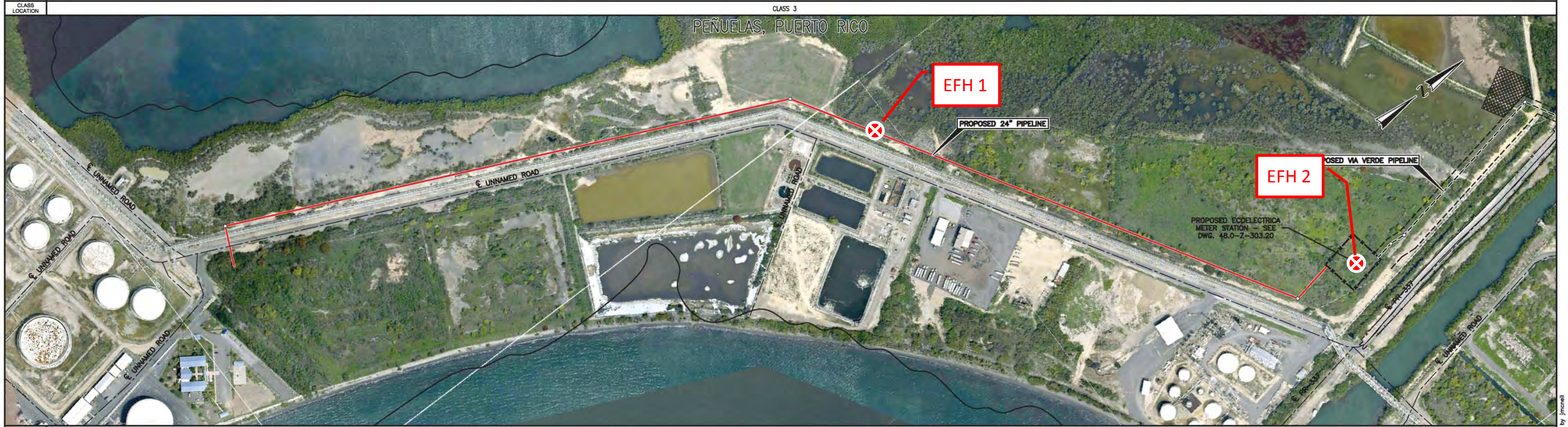
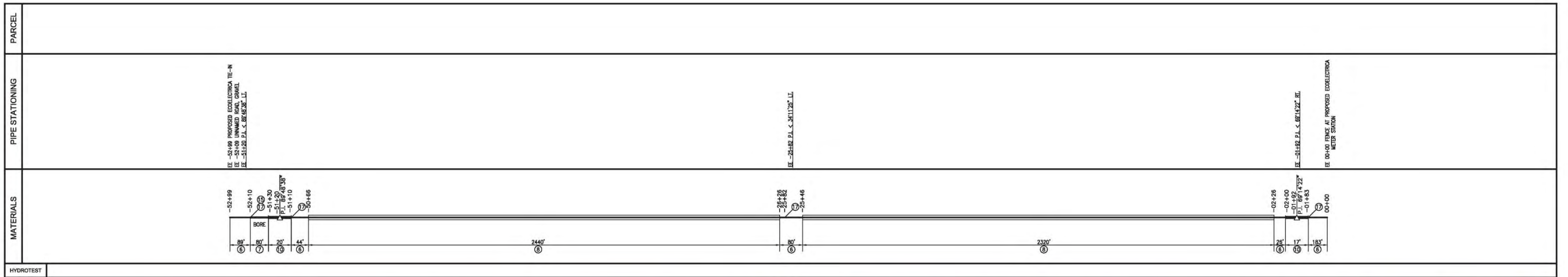


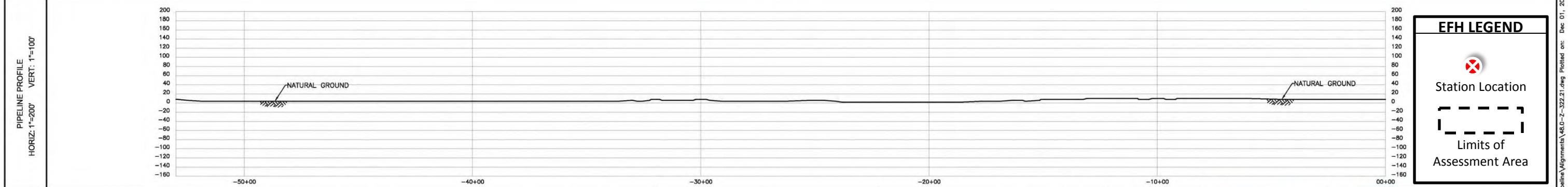
APPENDIX A

Via Verde Construction Alignment and Proposed HDD Sheets w/EFH Stations

10 Sheets



ENV.	
MIN. COV.	3' COVER
REF. DWG.	



EFH LEGEND

- Station Location
- Limits of Assessment Area

MATERIAL SUMMARY			MATERIAL SUMMARY			REFERENCE DRAWINGS		
ITEM NO.	DESCRIPTION	QTY.	ITEM NO.	DESCRIPTION	QTY.	REF. DWG.	DESCRIPTION	
1	PIPE, 24" O.D. x 0.375" W.T., API-5L-X70 W/14 MILS FBE	0	15	TEST LEAD, CPA - TYPICAL	1	48.0-Z-303.20	PROPOSED ECOELECTRICA METER STATION	
2	PIPE, 24" O.D. x 0.375" W.T., API-5L-X70, W/14 MILS FBE W/ 4" CONC. COAT.	0	17	LINE MARKER	4	48.0-Z-321.01	PROPOSED VIA VERDE PIPELINE	
3	PIPE, 24" O.D. x 0.438" W.T., API-5L-X70, W/14 MILS FBE	0						
4	PIPE, 24" O.D. x 0.438" W.T., API-5L-X70, W/14 MILS FBE & 40 MILS ARO	0						
5	PIPE, 24" O.D. x 0.438" W.T., API-5L-X70, 14 MILS FBE W/ 3.5" CONC. COAT.	0						
6	PIPE, 24" O.D. x 0.500" W.T., API-5L-X70, W/14 MILS FBE	422'						
7	PIPE, 24" O.D. x 0.500" W.T., API-5L-X70, W/14 MILS FBE & 40 MILS ARO	80'						
8	PIPE, 24" O.D. x 0.500" W.T., API-5L-X70, 14 MILS FBE W/ 3.25" CONC. COAT.	4760'						
10	BEND - 50, 24" O.D. x 0.625" W.T., API-5L-X70, TAPER BORED TO 0.500" W/ 14 MILS FBE	2						

NO.	REVISION	BY	DATE	CHKD	APP.
1	ISSUED FOR BID		11-30-2010		

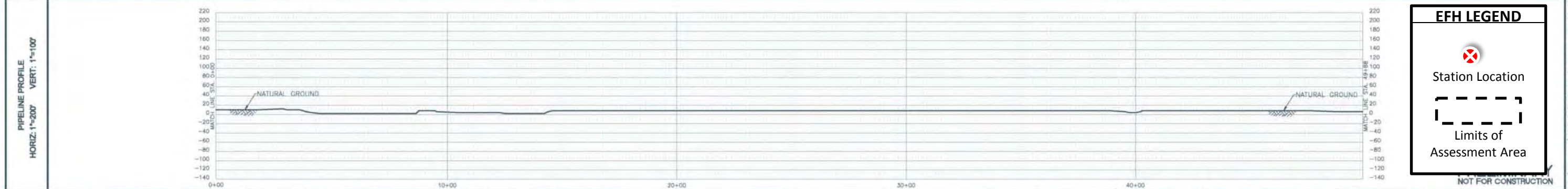
		VIA VERDE PIPELINE PROJECT CONSTRUCTION ALIGNMENT SHEET PROPOSED VIA VERDE PIPELINE ECOELECTRICA LATERAL STA. 0+00 TO STA. +52+99 PEÑUELAS, PUERTO RICO	
DWN. BY: APB	DATE: 09-03-2010	DWG. NO. 48.0-Z-322.21	SHT. NO. 1 OF 1
CHKD BY:	DATE:	SCALE: 1"=200'	REV.
PROJ. ENGR.:	DATE:		
PROJ. MGR.:	DATE:		
CLIENT APP.:	DATE:		

H:_dm\1445\600 - Pipeline\48.0-Z-322.21.dwg Plotted on: Dec 01, 2010 - 9:44am by jmcnett

PARCEL	(387-000-006-10 14011)	PR-337	(NO DATA)	(NO DATA)	(387-000-006-10)	CANAL	(387-000-006-10)	ROAD	(387-000-006-10)
	1116'	69'	68'	149'	2573'	35'	585'	33'	360'
PIPE STATIONING	0+00	1+16	1+85	2+53	4+02	10+75	11+10	11+43	11+79
MATERIALS	3" HDPE	3" HDPE	3" HDPE	3" HDPE	3" HDPE	3" HDPE	3" HDPE	3" HDPE	3" HDPE



ENV.							
MIN. COV.	3' COVER	MLV CS #1 - MLV CS #2	3' COVER	HDD - MATILDE RIVER	3' COVER	HDD - CANAL	3' COVER
REF. DWG.	48.0-Z-326.42 (REF. ONLY)			48.0-Z-325.00		48.0-Z-325.18	



MATERIAL SUMMARY			MATERIAL SUMMARY			REFERENCE DRAWINGS		
ITEM NO.	DESCRIPTION	QTY.	ITEM NO.	DESCRIPTION	QTY.	REF. DWG.	DESCRIPTION	QTY.
1	PPE, 24" O.D. x 0.375" W.T., API-5L-X70, W/14 MILS FBE	0	11	MAIN LINE VALVE INSTALLATION - BT (SEE DRAWING 47.0-2-306.42) REF. ONLY	2	48.0-Z-322.21	PROPOSED ECOELECTRICA LATERAL	
2	PPE, 24" O.D. x 0.375" W.T., API-5L-X70, W/14 MILS FBE W/ 4" CONC. COAT.	0	15	TEST LEAD, CPA - TYPICAL	1	48.0-Z-303.20	PROPOSED ECOELECTRICA METER STATION	
3	PPE, 24" O.D. x 0.438" W.T., API-5L-X70, W/14 MILS FBE	0	16	TEST LEAD, CPC - CALIBRATED SPAN	1	48.0-Z-325.00	HDD - MATILDE RIVER	
4	PPE, 24" O.D. x 0.438" W.T., API-5L-X70, W/14 MILS FBE & 40 MILS ARO	0	17	LINE MARKER	3	48.0-Z-325.18	HDD - CANAL	
5	PPE, 24" O.D. x 0.438" W.T., API-5L-X70, 14 MILS FBE W/ 3.5" CONC. COAT.	0	19	AERIAL MARKER	1	48.0-Z-306.42	PIPING PLOT PLAN (FOR REFERENCE ONLY)	
6	PPE, 24" O.D. x 0.500" W.T., API-5L-X70, W/14 MILS FBE	2468'						
7	PPE, 24" O.D. x 0.500" W.T., API-5L-X70, W/14 MILS FBE & 40 MILS ARO	2467'						
8	PPE, 24" O.D. x 0.500" W.T., API-5L-X70, 14 MILS FBE W/ 3.5" CONC. COAT.	0						
10	BEND - 90, 24" O.D. x 0.625" W.T., API-5L-X70, TAPER BORED TO 0.500" W/ 14 MILS FBE COATING	2						

EFH LEGEND

Station Location

Limits of Assessment Area

NOT FOR CONSTRUCTION

VIA VERDE PIPELINE PROJECT

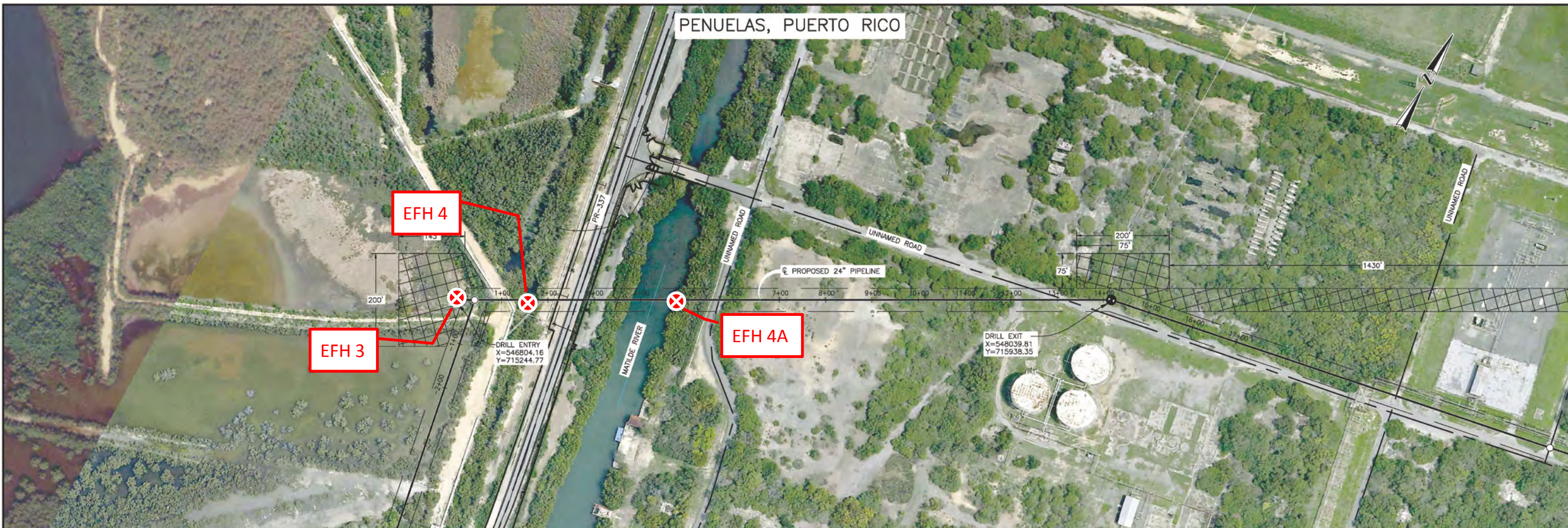
CONSTRUCTION ALIGNMENT SHEET
 PROPOSED VIA VERDE PIPELINE
 ECOELECTRICA TO SAN JUAN
 STA. 0+00 TO STA. 49+88
 PEÑUELAS, PUERTO RICO

DWG. NO. 48.0-Z-321.01 SHT. NO. 01 OF 96 REV. 3

SCALE: 1"=200'

H:_com\1448\600 - Pipeline\3 Pipeline\Alignments\48.0-Z-321.01.dwg Plotat an: Mar 09, 2011 - 12:56pm by [unclear]

PENUELAS, PUERTO RICO



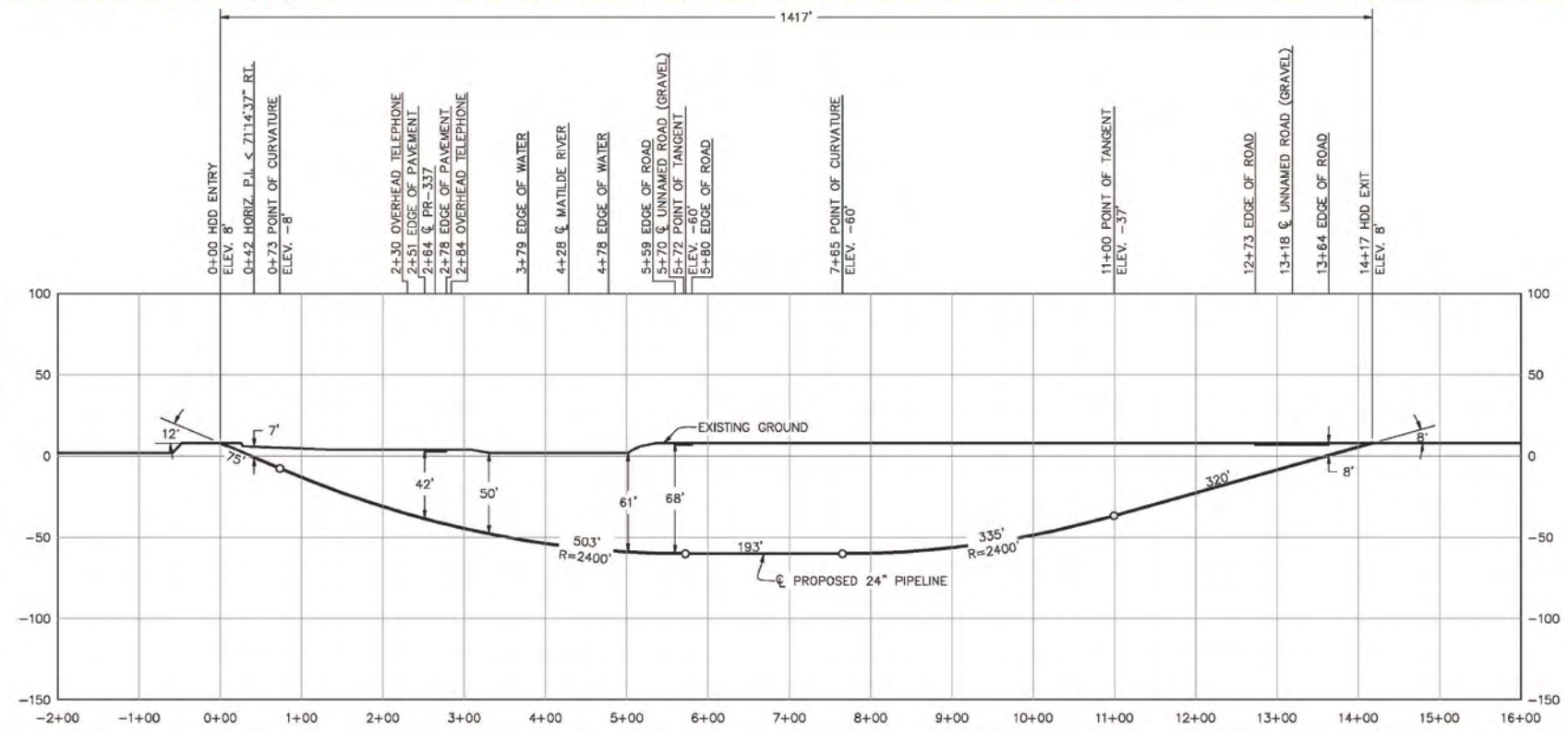
DESIGN DATA DRILL
 CROSSING HORIZONTAL LENGTH 1,417'
 DIRECTIONAL BORE LENGTH 1,430'
 DESIGN RADIUS 2400'

CARRIER PIPE
 24" O.D. X 0.500" WT.
 API-5L X70 14 MILS MIN. FBE
 COATED WITH ADHESIVE ABRASION RESISTANT OVERCOAT

HYDROSTATIC TEST
 PRIOR TO INSTALLATION CARRIER PIPE SHALL BE HYDROSTATICALLY TESTED FOR 4 HOURS. MINIMUM TEST PRESSURE SHALL BE 2625 PSI. MAXIMUM TEST PRESSURE SHALL BE 2800 PSI.

- DIRECTIONAL DRILL NOTES**
- CONTRACTOR TO SUPPLY AND INSTALL A CONDUIT IN THE HDD CROSSING. CONDUIT SHALL BE BUNDLED WITH THE PIPELINE AND INSTALLED IN A COMMON BORE. THE HDD BORE DIAMETER SHALL BE 40" - 42". ALTERNATIVELY THE CONDUIT MAY BE INSTALLED IN A SEPARATE HDD BORE. IN THIS CASE THE BORE FOR THE PIPELINE SHALL BE 34"-36". THE CONDUIT MUST BE INSTALLED WITHIN THE PERMANENT GASSEMENT. CHECKOUT SHALL BE INSTALLED NO LESS THAN 1" FROM EDGE OF PERMANENT GASSEMENT.
 - MINIMUM ALLOWABLE 3 JOINT BORE SIZE.
 - HORIZONTAL POSITION OF BOREHOLE SHALL BE NO LESS THAN 1" FROM EDGE OF PERMANENT R.O.M.
 - DRILLED ENTRY POINT SHALL BE EXACTLY AT LOCATION SHOWN.
 - DRILLED EXIT POINT SHALL NOT BE MORE THAN 10' FROM DESIGNED CENTERLINE. (ALSO SEE NOTE 3)
 - HDD BORE WILL NOT BE REINSTALLED AT A DEPTH SHALLOWER THAN SHOWN.
 - AFTER INSTALLATION IS COMPLETE A GAUGING PLATE SHALL BE RUN THROUGH CARRIER PIPE. GAUGING PLATE SHALL HAVE A DIAMETER OF 22.5". PLATE MATERIAL SHALL BE 3" ALUMINUM PLATE.
 - GEOTECHNICAL DATA SHOWN IS CURRENT AS OF 11/30/10. GEOTECHNICAL INVESTIGATION IS ONGOING.
 - DRILL FLUID AND DRILL SPOILS SHALL BE DISPOSED OF EITHER AT AN APPROVED LANDFILL OR BY MIXING WITH TOPSOIL AT AN APPROVED SITE.
 - DISPOSAL SITES TO BE DETERMINED BY CONTRACTOR AND SUBMITTED TO "TRENCH" FOR APPROVAL PRIOR TO USE.
 - THERE SHALL BE NO CLEARING OF TREES BETWEEN THE ENTRY SIDE WORKSPACE AND THE EXIT SIDE WORKSPACE. MINOR BRUSH CLEARING USING HAND TOOLS IS PERMITTED FOR INSTALLING OF SURFACE COIL FOR CONDUIT SURVEY SYSTEM.
 - CONTRACTOR SHALL IDENTIFY WATER SOURCE FOR DRILL FLUID MAKEUP. SOURCES MUST BE APPROVED BY PREPRA PRIOR TO STARTING WORK.
 - WATER SOURCE AND DISCHARGE POINT FOR HYDROSTATIC TEST OF PIPE PRIOR TO PULLBACK SHALL BE AS PER HYDROSTATIC TEST PLAN AND APPLICABLE PERMITS.
 - ELEVATIONS SHOWN ARE BASED ON SURVEY DATA PROVIDED BY OTHERS. ELEVATIONS ARE APPROXIMATE AND MUST BE FIELD VERIFIED BY CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.
 - PHOTOGRAPHY SHOWN IS OF UNKNOWN VINTAGE AND MAY NOT DEPICT CURRENT CONDITIONS.
 - COORDINATES PROVIDED ARE BASE UPON NAD 83 PUERTO RICO AND VIRGIN ISLANDS, US FOOT.

- NOTES:**
- WATERBODY CROSSING CONSTRUCTION, RESTORATION AND MITIGATION WILL BE PERFORMED IN ACCORDANCE WITH TERMS & CONDITIONS OF APPLICABLE PERMITS AND PREPRA'S EROSION PREVENTION AND SEDIMENT CONTROL AND WETLAND & WATERBODY CONSTRUCTION GUIDANCE MANUAL.
 - SEDIMENT BARRIERS SHALL BE INSTALLED AND MAINTAINED AS PER ALL APPLICABLE STORMWATER CONTROL REQUIREMENTS.
 - THE LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION. THIS INCLUDES CONTRACTING THE PRELIMINARY CENTER 72 HOURS PRIOR TO BEGINNING WORK. (C87) 782-7478
 - WORKMATS OR OTHER APPROVED PROTECTION TO BE INSTALLED OVER FOREIGN LINES. OWNERS OF FOREIGN PIPELINES TO BE NOTIFIED 48 HOURS PRIOR TO BEGINNING WORK.



EFH LEGEND

Station Location

Limits of Assessment Area

MATERIAL SUMMARY			MATERIAL SUMMARY		
ITEM NO.	DESCRIPTION	QTY.	ITEM NO.	DESCRIPTION	QTY.

REFERENCE DRAWINGS		
REF. DWG.	DESCRIPTION	
DWG. 48.0-Z-321.01	ALIGNMENT SHEET	

LEGEND

	Road		Parcel Number
	Creek		Transmission Tower
	Fence		Power Pole
	O.H. Pwr. Ln.		Mile Post
	U.G. Cable		Cathodic Test Sta.
	Sewer Line		Elevation
	Water Line		Wetlands
	Foreign Pipeline		HDD Entry/Exit
	Property Line		Extra workspace
	Municipality Line		
	Survey/Section Ln.		
	Karst Boundary		

NO.	REVISION	BY	DATE	CHKD	APP.
1	ISSUED FOR BID	CEL	11/30/10	MB	

AE **RAY**

DWN. BY: CEL DATE: 09-03-2010
 CHKD BY: MB DATE: --
 PROJ. ENGR.: -- DATE: --
 PROJ. MGR.: -- DATE: --
 CLIENT APP.: -- DATE: --

SCALE: H: 1"=100' V: 1"=50'

VIA VERDE PIPELINE PROJECT

HORIZONTAL DIRECTIONAL DRILL PROPOSED VIA VERDE PIPELINE MATILDE RIVER MP 0.28 PENUELAS, PUERTO RICO

DWG. NO. 48.0-Z-325.00

SHT. NO. 1 OF 1

REV. 1

PENUELAS, PUERTO RICO



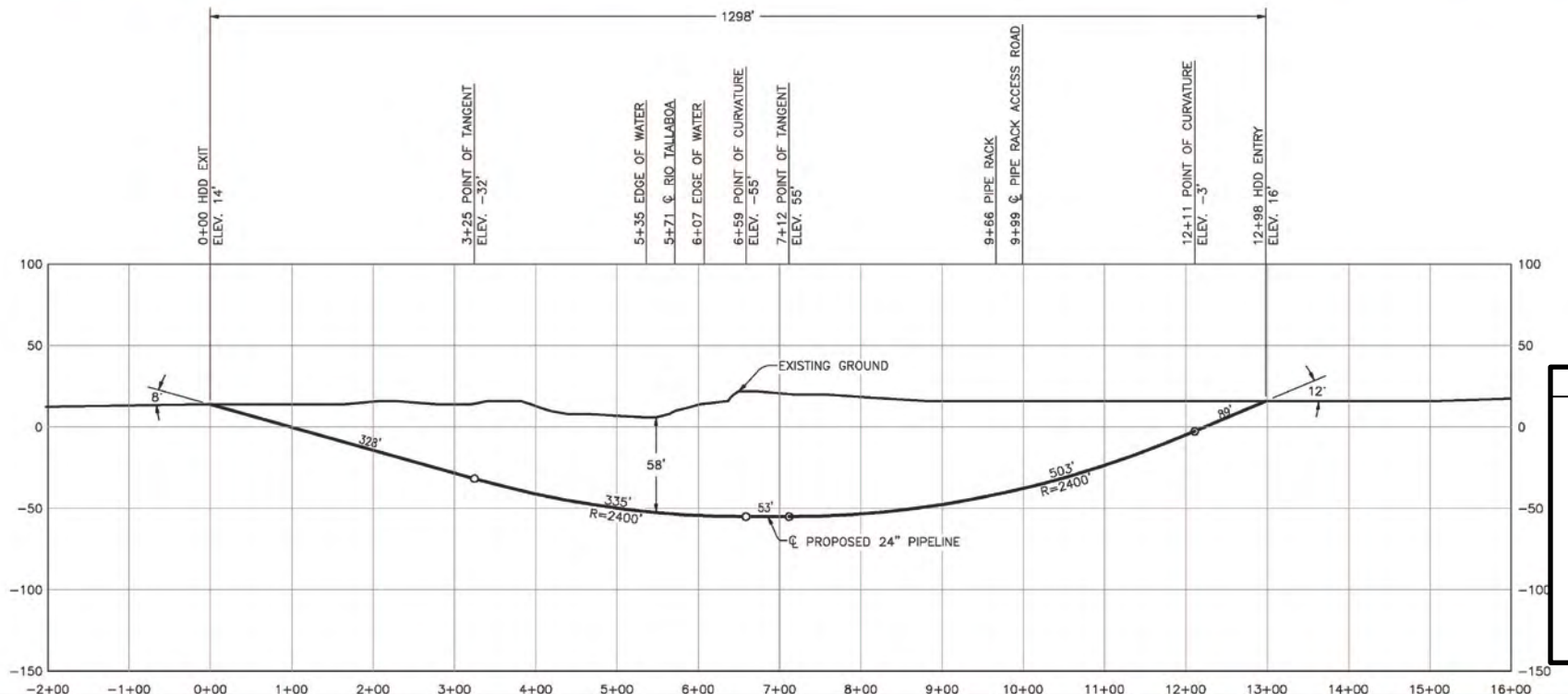
DESIGN DATA DRILL
 CROSSING HORIZONTAL LENGTH: 1,298'
 DIRECTIONAL BORE LENGTH: 1,307'
 DESIGN RADIUS: 2400'

CARRIER PIPE
 24" O.D. X 6.500" W.T.
 API-5L X70 14 WELS MIN. FBE
 COATED WITH ADHESION RESISTANT OVERCOAT

HYDROSTATIC TEST
 PRIOR TO INSTALLATION CARRIER PIPE SHALL BE HYDROSTATICALLY TESTED FOR 4 HOURS. MINIMUM TEST PRESSURE SHALL BE 2825 PSI. MINIMUM TEST PRESSURE SHALL BE 2800 PSI.

- DIRECTIONAL DRILL NOTES**
- CONTRACTOR TO SUPPLY AND INSTALL A CONDUIT IN THE HDD CROSSING. CONDUIT SHALL BE BUNDLED WITH THE PIPELINE AND INSTALLED IN A COMMON BORE. THE HDD BORE DIAMETER SHALL BE 40" - 42". ALTERNATIVELY THE CONDUIT MAY BE INSTALLED IN A SEPARATE HDD BORE. IN THIS CASE THE BORE FOR THE PIPELINE SHALL BE 34"-36". THE CONDUIT MUST BE INSTALLED WITHIN THE PERMANENT EASEMENT. CONDUIT SHALL BE INSTALLED NO LESS THAN 1' FROM EDGE OF PERMANENT EASEMENT AT A DEPTH NO SHALLOWER THAN THE PIPELINE. THE CONDUIT SHALL CONSIST OF 4-1/2" O.D. X 0.337" W.T. WELDED STEEL PIPE.
 - MINIMUM ALLOWABLE JOINT SPACING: 2000'.
 - HORIZONTAL POSITION OF BOREHOLE SHALL BE NO LESS THAN 1" FROM EDGE OF PERMANENT EASEMENT.
 - DRILLED ENTRY POINT SHALL BE EXACTLY AT LOCATION SHOWN.
 - DRILLED EXIT POINT SHALL NOT BE MORE THAN 10' FROM DESIGNED CENTERLINE. (ALSO SEE NOTE 3)
 - HDD BORE WILL NOT BE INSTALLED AT A DEPTH SHALLOWER THAN SHOWN.
 - AFTER INSTALLATION IS COMPLETE A GAUGING PLATE SHALL BE RUN THROUGH CARRIER PIPE. GAUGING PLATE SHALL HAVE A DIAMETER OF 23.5". PLATE MATERIAL SHALL BE 8" ALUMINUM PLATE.
 - GEOTECHNICAL DATA SHOWN IS CURRENT AS OF 11/30/10. GEOTECHNICAL INVESTIGATION IS ONGOING.
 - DRILL FLUID AND DRILL SPOILS SHALL BE DISPOSED OF EITHER AT AN APPROVED LANDFILL OR BY BORING WITH TOPSOIL AT AN APPROVED SITE.
 - DISPOSAL SITES TO BE DETERMINED BY CONTRACTOR AND SUBMITTED TO "PRIMA" FOR APPROVAL PRIOR TO USE.
 - THERE SHALL BE NO CLEARING OF TREES BETWEEN THE ENTRY SIDE WORKSPACE AND THE EXIT SIDE WORKSPACE. MINOR BRUSH CLEARING, USING HAND TOOLS IS PERMITTED FOR INSTALLING OF SURFACE COIL FOR DOWNHOLE SURVEY SYSTEM.
 - CONTRACTOR SHALL IDENTIFY WATER SOURCE FOR DRILL FLUID MAKEUP. SOURCES MUST BE APPROVED BY PREPA PRIOR TO STARTING WORK.
 - WATER SOURCE AND DISCHARGE POINT FOR HYDROSTATIC TEST OF PIPE PRIOR TO PULLBACK SHALL BE AS PER HYDROSTATIC TEST PLAN AND APPLICABLE PERMITS. ELEVATIONS SHOWN ARE BASED ON SURVEY DATA PROVIDED BY OTHERS. ELEVATIONS ARE APPROXIMATE AND MUST BE FIELD VERIFIED BY CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.
 - PHOTOGRAPHY SHOWN IS OF UNKNOWN VINTAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
 - COORDINATES PROVIDED ARE BASED UPON NAD 83 PUERTO RICO AND VIRGIN ISLANDS, US FOOT.

- NOTES:**
- WATERBODY CROSSING CONSTRUCTION, RESTORATION AND MITIGATION WILL BE PERFORMED IN ACCORDANCE WITH TERMS & CONDITIONS OF APPLICABLE PERMITS AND PREPA'S EROSION PREVENTION AND SEDIMENT CONTROL AND WETLAND & WATERBODY CONSTRUCTION GUIDANCE MANUAL.
 - SEDMENT BARRIERS SHALL BE INSTALLED AND MAINTAINED AS PER ALL APPLICABLE STEWARDSHIP CONTROL REQUIREMENTS.
 - THE LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION. THIS INCLUDES CONTACTING THE PREP EXAMINER CENTER 72 HOURS PRIOR TO BEGINNING WORK. (787) 793-7478
 - WORKMANS OR OTHER APPROVED PROTECTION TO BE INSTALLED OVER FOREIGN LINES. OWNERS OF FOREIGN PIPELINES TO BE NOTIFIED 48 HOURS PRIOR TO BEGINNING WORK.



EFH LEGEND

Station Location

Limits of Assessment Area

MATERIAL SUMMARY			MATERIAL SUMMARY		
ITEM NO.	DESCRIPTION	QTY.	ITEM NO.	DESCRIPTION	QTY.

REFERENCE DRAWINGS	
REF. DWG.	DESCRIPTION
DWG. 48.0-Z-321.02	ALIGNMENT SHEET

LEGEND

Road	Creek	Fence	O.H. Pwr. Ln.	U.C. Cable	Sewer Line	Water Line	Foreign Pipeline	Property Line	Municipality Line	Survey/Section Ln.	Korral Boundary	Top Valve	Main Line Valve	Induction Band	Warning Sign	Cont. Conc. Coating	Set-On Weights	Pipeline P.I.	Extra workspace	Parcel Number	Transmission Tower	Power Pole	Mile Post	Cathodic Test Sta.	Elevation	Wetlands	HDD Entry/Exit
------	-------	-------	---------------	------------	------------	------------	------------------	---------------	-------------------	--------------------	-----------------	-----------	-----------------	----------------	--------------	---------------------	----------------	---------------	-----------------	---------------	--------------------	------------	-----------	--------------------	-----------	----------	----------------

NO.	REVISION	BY	DATE	CHKD	APP.
1	ISSUED FOR BD	CEL	11/30/10	MB	

AEE **RAY**

DWN. BY: CEL DATE: 09-03-2010
 CHKD BY: MB DATE: --
 PROJ. ENGR.: -- DATE: --
 PROJ. MGR.: -- DATE: --
 CLIENT APP.: -- DATE: --

SCALE: H: 1"=100' V: 1"=50'

VIA VERDE PIPELINE PROJECT

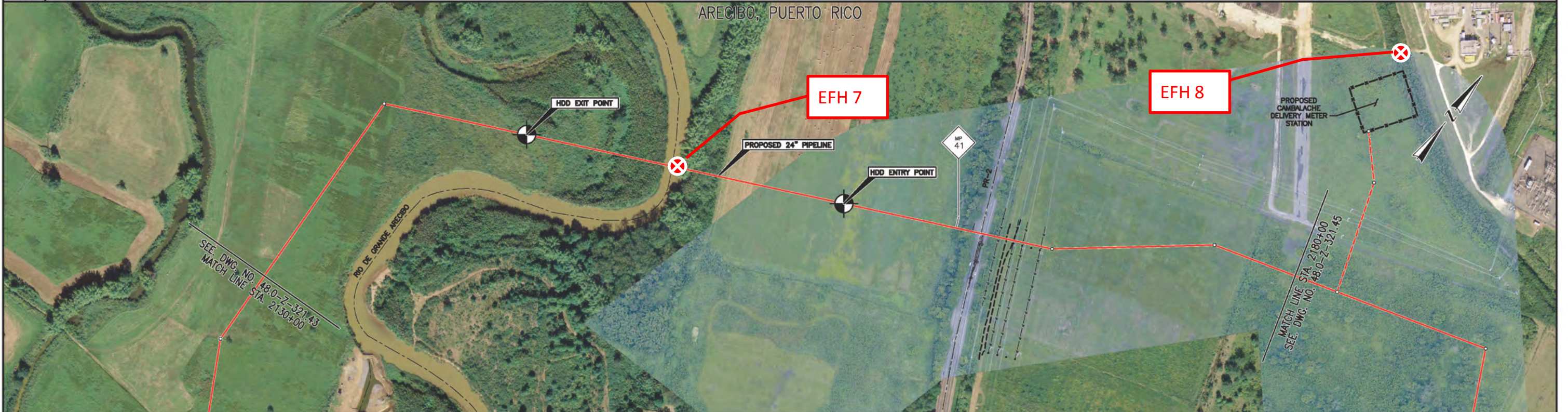
HORIZONTAL DIRECTIONAL DRILL PROPOSED VIA VERDE PIPELINE RIO TALLABOA MP 1.48 PENUELAS, PUERTO RICO

DWG. NO. **48.0-Z-325.01** SHT. NO. **1 OF 1** REV. **1**

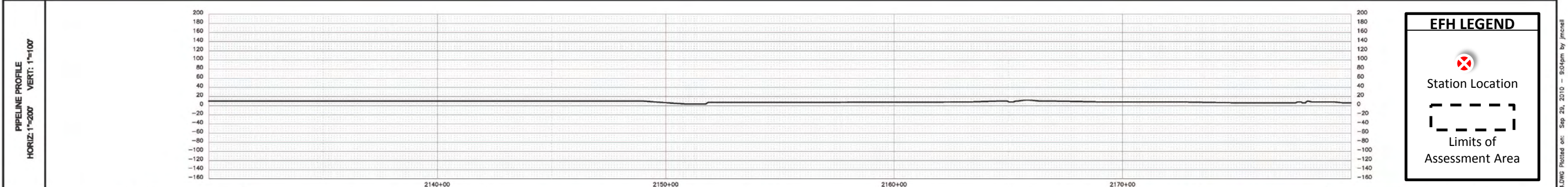
C:\Work\1448\Verde\48.0-Z-325.01.DWG Plotted on: Dec 01, 2010 - 8:22am by cllite

PARCEL	
PIPE STATIONING	2138+19 P.L. < 672138' EG. 2146+58 HDD EXIT POINT 2154+07 RD DE GRANDE ARECIBO 2159+78 HDD ENTRY POINT 2166+04 PR. 2, APPROX. EXISTING PIPELINE 2166+10 OVERHEAD POWERLINE 2167+78 OVERHEAD POWERLINE 2168+58 OVERHEAD POWERLINE 2168+59 P.L. < 134015' LT. 2176+20 P.L. < 221738' EG.
MATERIALS	

HYDROTEST	
CLASS LOCATION	



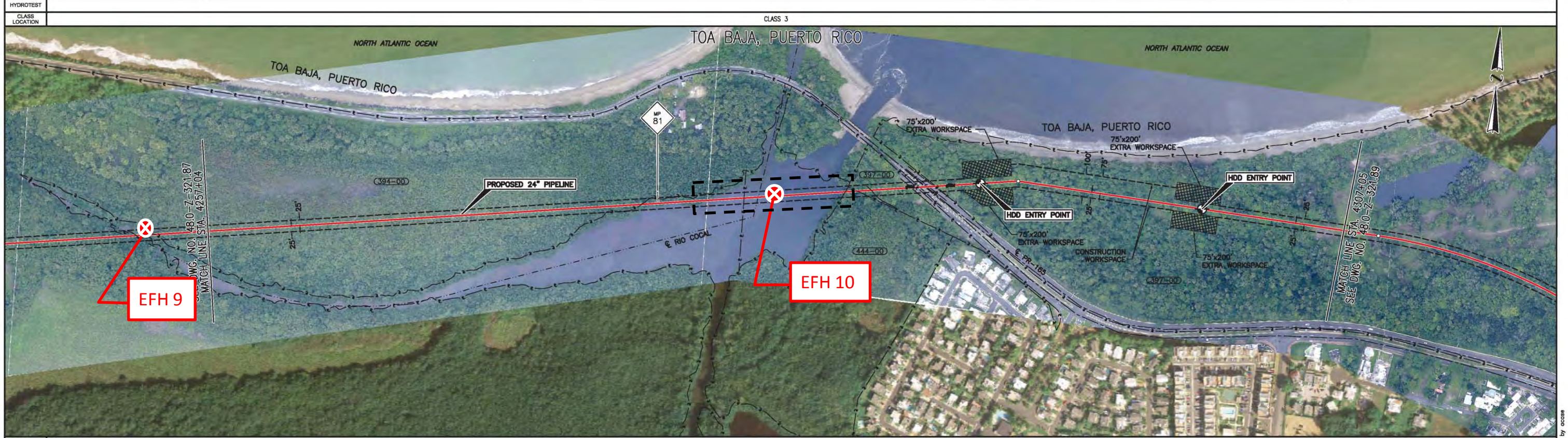
ENV.	
MIN. COV.	100



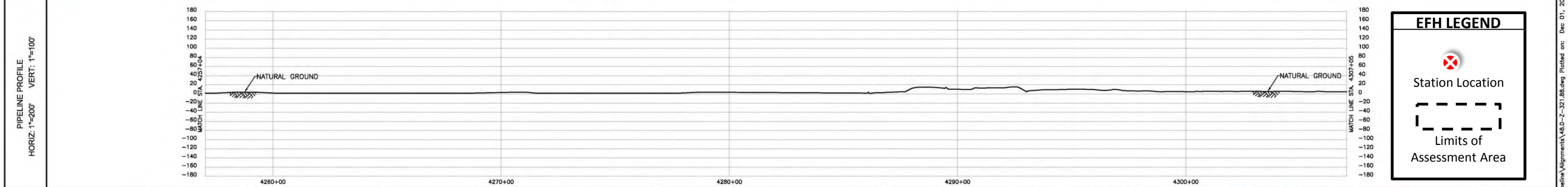
MATERIAL SUMMARY ITEM NO. DESCRIPTION QTY.			MATERIAL SUMMARY ITEM NO. DESCRIPTION QTY.			REFERENCE DRAWINGS ---			LEGEND --- Road --- Creek --- Fence --- O.H. Per. Ln. --- U.G. Cable --- Sewer Line --- Water Line --- Foreign Pipeline --- Property Line --- Municipality Line --- Survey/Section Ln. --- Temporary Work Space --- Top Valve --- Main Line Valve --- Induction Bend --- Warning Sign --- Cont. Conc. Coating --- Set-On Weights --- Pipeline P.I. --- Additional Temporary Work Space --- Parcel Number --- Transmission Tower --- Power Pole --- Mile Post --- Cathodic Test Sta. --- Ejection --- Wetlands			0 100' 200' 300' 						VIA VERDE PIPELINE PROJECT CONSTRUCTION ALIGNMENT SHEET PROPOSED VIA VERDE PIPELINE ECOELECTRICA TO SAN JUAN STA. 2130+00 TO STA. 2180+00 ARECIBO, PUERTO RICO		
DWN. BY: DRS DATE: 09-03-2010 CHKD BY: DATE: PROJ. ENGR.: DATE: CLIENT APP.: DATE:			DWG. NO. 48.0-Z-321.44			SH. NO. 44 OF 96			REV. 0											

©:Work\1448\jmcene\48.0-Z-321.44.DWG Plotted on: Sep 29, 2010 - 9:05pm by jmcene

PARCEL		(394-00) U.S. NAVY 1900' 115 RODS	(NO DATA) 453'	4280+57 RIO COCAL 444'	(444-00) 53'	(397-00) PR-165 82'	(397-00) 1807'	
PIPE STATIONING	MATCH LINE STA. 4257+04				4281+19 & RIO COCAL	4285+15 PR-165 82' 4285+97	4300+75 HDD ENTRY POINT	MATCH LINE STA. 4307+05
MATERIALS	MATCH LINE STA. 4257+04		3380'	4276+80		4285+07 4285+07 4291+94 4291+21 4292+41 4292+81	4300+41 4300+75	MATCH LINE STA. 4307+05



ENV.	
MIN. COV.	HDD - RIO COCAL / PR-165
REF. DWG.	48.0-Z-325.12



EFH LEGEND

- Station Location
- Limits of Assessment Area

MATERIAL SUMMARY			MATERIAL SUMMARY			REFERENCE DRAWINGS		
ITEM NO.	DESCRIPTION	QTY.	ITEM NO.	DESCRIPTION	QTY.	REF. DWG.	DESCRIPTION	
1	PIPE, 24" O.D. X 0.375" W.T., API-SL-X70 W/14 MILS FBE	0	19	AERIAL MARKER	1	48.0-Z-325.12	HDD - RIO COCAL	
2	PIPE, 24" O.D. X 0.375" W.T., API-SL-X70 W/14 MILS FBE W/ 4" CONC. COAT.	0				48.0-Z-325.19	HDD - PUNTA SALINAS	
3	PIPE, 24" O.D. X 0.438" W.T., API-SL-X70, W/14 MILS FBE	0						
4	PIPE, 24" O.D. X 0.438" W.T., API-SL-X70, W/14 MILS FBE & 40 MILS ARO	0						
5	PIPE, 24" O.D. X 0.438" W.T., API-SL-X70, 14 MILS FBE W/ 3.5" CONC. COAT.	0						
6	PIPE, 24" O.D. X 0.500" W.T., API-SL-X70, W/14 MILS FBE	101'						
7	PIPE, 24" O.D. X 0.500" W.T., API-SL-X70, W/14 MILS FBE & 40 MILS ARO	4020'						
8	PIPE, 24" O.D. X 0.500" W.T., API-SL-X70, 14 MILS FBE W/ 3.25" CONC. COAT.	860'						
15	TEST LEAD, CPA - TYPICAL	1						
17	LINE MARKER	2						

VIA VERDE PIPELINE PROJECT

CONSTRUCTION ALIGNMENT SHEET
PROPOSED VIA VERDE PIPELINE
EEOLECTRICA TO SAN JUAN
STA. 4257+04 TO STA. 4307+05
TOA BAJA, PUERTO RICO

DWN. BY: APB DATE: 09-03-2010
CHKD BY: DATE:
PROJ. ENGR.: DATE:
PROJ. MGR.: DATE:
CLIENT APP.: DATE:

DWG. NO. 48.0-Z-321.88 SH. NO. 88 OF 96 REV. 1

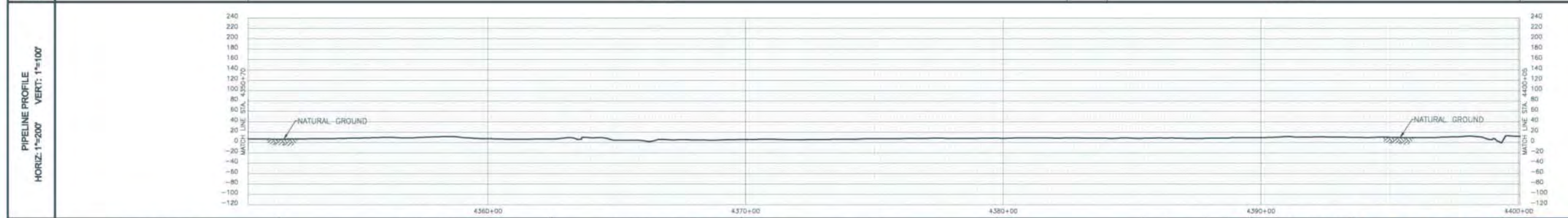
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H:_User\1449\600 - Pipeline\Alignments\48.0-Z-321.88.dwg Plotted on: Dec 01, 2010 - 1:07pm by acas

PARCEL		4935'	4388-00
PIPE STATIONING	MATCH LINE STA. 4350+70		MATCH LINE STA. 4400+05
MATERIALS	MATCH LINE STA. 4350+70		MATCH LINE STA. 4400+05
HYDROTEST			
CLASS LOCATION		CLASS 3	



ENV.			
MIN. COV.		5' COVER	
REF. DWG.	HDD-LEWITOWN BEACH 48.0-Z-325.20		HDD-LEWITOWN BEACH 48.0-Z-325.21



EFH LEGEND

Station Location

Limits of Assessment Area

PRELIMINARY
NOT FOR CONSTRUCTION

ITEM NO.	DESCRIPTION	QTY.
1	PIPE 24" O.D. x 0.375" WT., API-5L-X70 W/14 MLS FBE	0
2	PIPE 24" O.D. x 0.375" WT., API-5L-X70, W/14 MLS FBE W/ 4" CONC. COAT	0
3	PIPE 24" O.D. x 0.438" WT., API-5L-X70, W/14 MLS FBE	0
4	PIPE 24" O.D. x 0.438" WT., API-5L-X70, W/14 MLS FBE & 40 MLS ABD	0
5	PIPE 24" O.D. x 0.438" WT., API-5L-X70, 14 MLS FBE W/ 3.5" CONC. COAT	0
6	PIPE 24" O.D. x 0.500" WT., API-5L-X70, W/14 MLS FBE	20'
7	PIPE 24" O.D. x 0.500" WT., API-5L-X70, W/14 MLS FBE & 40 MLS ABD	4795'
8	PIPE 24" O.D. x 0.500" WT., API-5L-X70, 14 MLS FBE W/ 3.5" CONC. COAT	120'
17	LINE MARKER	1

ITEM NO.	DESCRIPTION	QTY.
48.0-Z-325.20	HDD-LEWITOWN BEACH	
48.0-Z-325.21	HDD-LEWITOWN BEACH	

REF. DWG.	DESCRIPTION
48.0-Z-325.20	HDD-LEWITOWN BEACH
48.0-Z-325.21	HDD-LEWITOWN BEACH

NO.	REVISION	BY	DATE	CHKD.	APP.
2	RE-ISSUED FOR BID		03-07-2011		
1	ISSUED FOR BID		11-30-2010		

LEGEND

- C Road
- C Creek
- P Fence
- G.L. Per. Lx.
- U.G. Cable
- S Sewer Line
- W Water Line
- F Foreign Pipeline
- P Property Line
- M Municipality Line
- S Survey/Section Lx.
- K Kart Boundary

VIA VERDE PIPELINE PROJECT

CONSTRUCTION ALIGNMENT SHEET
PROPOSED VIA VERDE PIPELINE
ECOELECTRICA TO SAN JUAN
STA. 4350+70 TO STA. 4400+05
TOA BAJA, PUERTO RICO

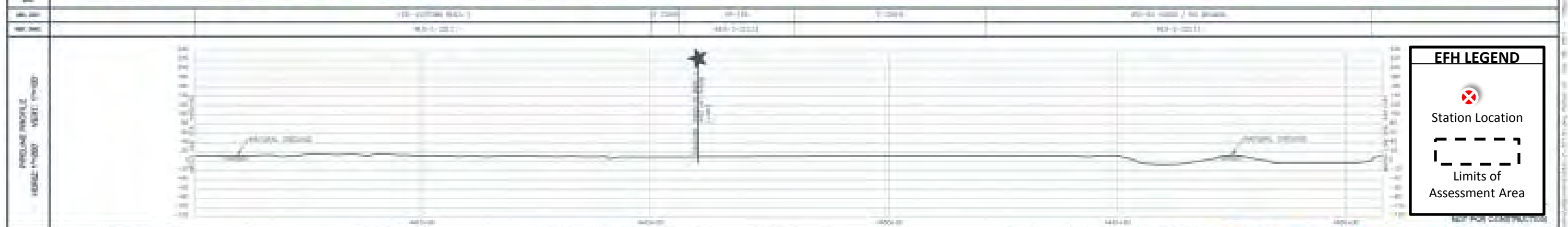
OWN. BY: APB DATE: 09-03-2010
CHKD BY: DATE:
PROJ. ENGR.: DATE:
PROJ. MGR.: DATE:
CLIENT APP.: DATE:

DWG. NO. 48.0-Z-321.90 SHT. NO. 90 OF 96 REV. 2

SCALE: 1"=200'

N:_sant\1448\600 - Pipeline\Agreements\48.0-Z-321.90.DWG. Printed on: Mar 09, 2011 1:03pm by jmcarr

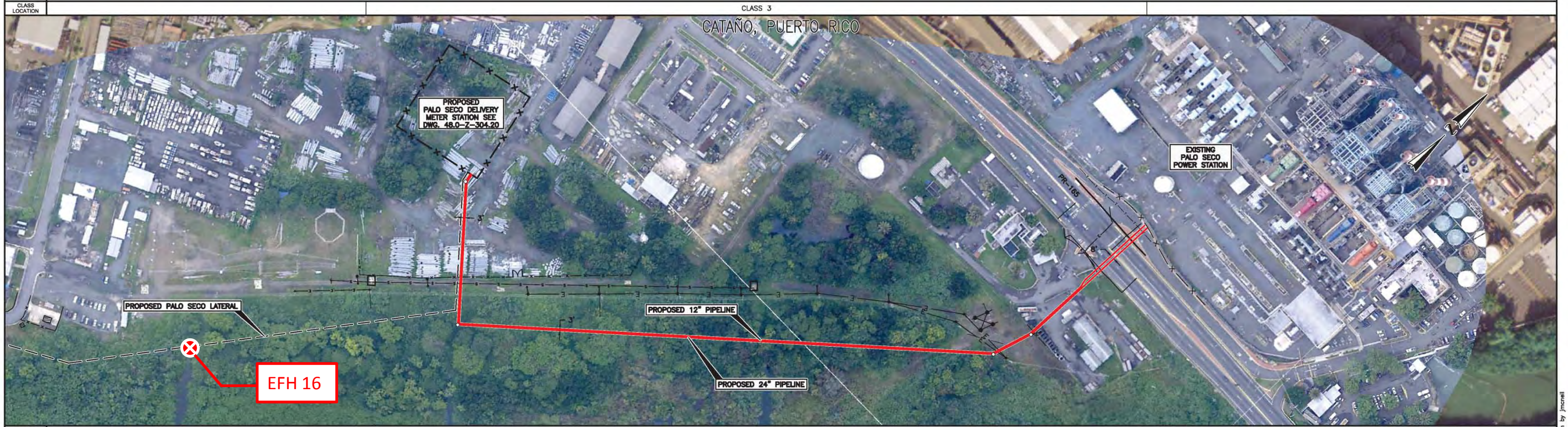
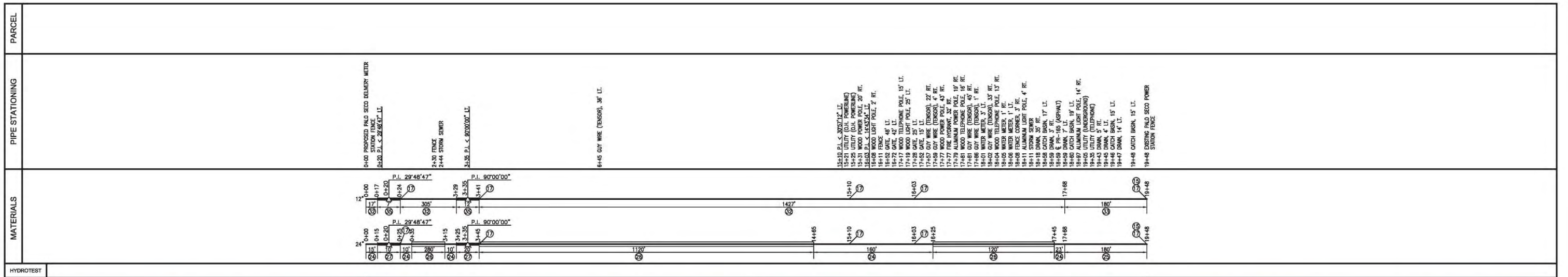
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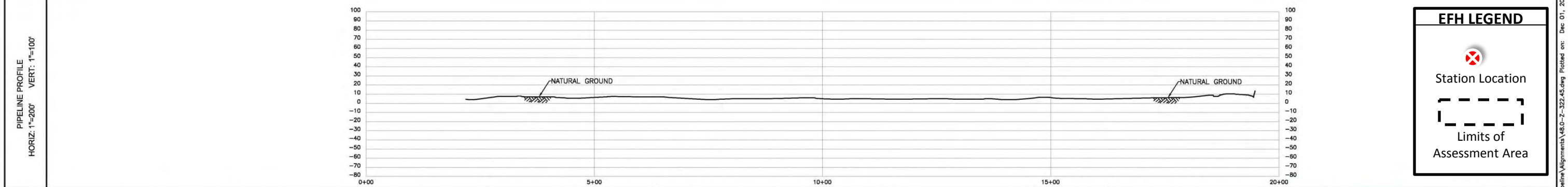
EFH LEGEND

- Station Location
- Limits of Assessment Area

<p>MATERIAL SUMMARY</p> <table border="1"> <tr> <th>ITEM NO.</th> <th>DESCRIPTION</th> <th>QTY.</th> <th>UNIT</th> </tr> <tr> <td>1</td> <td>PIPELINE</td> <td>1000</td> <td>LINEAL FEET</td> </tr> <tr> <td>2</td> <td>VALVES</td> <td>2</td> <td>PIECES</td> </tr> <tr> <td>3</td> <td>TELEPHONE CABLE</td> <td>1000</td> <td>LINEAL FEET</td> </tr> <tr> <td>4</td> <td>CONCRETE</td> <td>1000</td> <td>CY</td> </tr> <tr> <td>5</td> <td>STEEL</td> <td>1000</td> <td>LBS</td> </tr> </table>		ITEM NO.	DESCRIPTION	QTY.	UNIT	1	PIPELINE	1000	LINEAL FEET	2	VALVES	2	PIECES	3	TELEPHONE CABLE	1000	LINEAL FEET	4	CONCRETE	1000	CY	5	STEEL	1000	LBS	<p>MATERIAL SUMMARY</p> <table border="1"> <tr> <th>ITEM NO.</th> <th>DESCRIPTION</th> <th>QTY.</th> <th>UNIT</th> </tr> <tr> <td>6</td> <td>PIPELINE</td> <td>1000</td> <td>LINEAL FEET</td> </tr> <tr> <td>7</td> <td>VALVES</td> <td>2</td> <td>PIECES</td> </tr> <tr> <td>8</td> <td>TELEPHONE CABLE</td> <td>1000</td> <td>LINEAL FEET</td> </tr> <tr> <td>9</td> <td>CONCRETE</td> <td>1000</td> <td>CY</td> </tr> <tr> <td>10</td> <td>STEEL</td> <td>1000</td> <td>LBS</td> </tr> </table>		ITEM NO.	DESCRIPTION	QTY.	UNIT	6	PIPELINE	1000	LINEAL FEET	7	VALVES	2	PIECES	8	TELEPHONE CABLE	1000	LINEAL FEET	9	CONCRETE	1000	CY	10	STEEL	1000	LBS	<p>INTERFERENCES SUMMARY</p> <table border="1"> <tr> <th>ITEM NO.</th> <th>DESCRIPTION</th> <th>QTY.</th> <th>UNIT</th> </tr> <tr> <td>11</td> <td>CONCRETE</td> <td>1000</td> <td>CY</td> </tr> <tr> <td>12</td> <td>STEEL</td> <td>1000</td> <td>LBS</td> </tr> </table>		ITEM NO.	DESCRIPTION	QTY.	UNIT	11	CONCRETE	1000	CY	12	STEEL	1000	LBS	<p>LEGEND</p> <table border="1"> <tr> <th>SYMBOL</th> <th>DESCRIPTION</th> </tr> <tr> <td>(Symbol)</td> <td>PIPELINE</td> </tr> <tr> <td>(Symbol)</td> <td>VALVE</td> </tr> <tr> <td>(Symbol)</td> <td>TELEPHONE CABLE</td> </tr> <tr> <td>(Symbol)</td> <td>CONCRETE</td> </tr> <tr> <td>(Symbol)</td> <td>STEEL</td> </tr> </table>		SYMBOL	DESCRIPTION	(Symbol)	PIPELINE	(Symbol)	VALVE	(Symbol)	TELEPHONE CABLE	(Symbol)	CONCRETE	(Symbol)	STEEL	<p>DATE 08/20/2024</p> <p>BY [Signature]</p> <p>CHECKED BY [Signature]</p> <p>SCALE 1" = 100'</p> <p>TITLE CONSTRUCTION ALIGNMENT SHEET</p> <p>PROJECT VIA VERDE PIPELINE PROJECT</p> <p>CONSTRUCTION ALIGNMENT SHEET</p> <p>PROPOSED VIA VERDE PIPELINE</p> <p>ELECTRICAL TO SAN JUAN</p> <p>STA. 482+00 TO STA. 488+00</p> <p>TOM SAJA, PROJECT MGR.</p> <p>48.0-2-321.01</p> <p>91 OF 95</p> <p>3</p>	
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ENV.	
MIN. COV.	3' COVER
REF. DWG.	PR-165 48.0-Z-323.28



EFH LEGEND

Station Location

Limits of Assessment Area

ITEM NO.	DESCRIPTION	QTY.
15	TEST LEAD, CPA - TYPICAL	2
17	LINE MARKER	10
24	PIPE, 24" O.D. x 0.375" W.T., GR. B, W/14 MILS FBE	218'
25	PIPE, 24" O.D. x 0.375" W.T., GR. B, W/14 MILS FBE & 40 MILS ARO	180'
26	PIPE, 24" O.D. x 0.375" W.T., GR. B, 14 MILS FBE W/ 4" CONC. COAT.	1520'
27	BEND - 50, 24" O.D. x 0.500" W.T., GR. B, TAPER BORED TO 0.375" W/ 14 MILS FBE	2
32	PIPE, 12" O.D. x 0.500" W.T., GR. B, W/14 MILS FBE	1749'
33	PIPE, 12" O.D. x 0.500" W.T., GR. B, W/14 MILS FBE & 40 MILS ARO	180'
35	BEND - 50, 12" O.D. x 0.500" W.T., GR. B, W/ 14 MILS FBE	2

ITEM NO.	DESCRIPTION	QTY.

REF. DWG.	DESCRIPTION
48.0-Z-304.20	PROPOSED PALO SECO METER STATION
48.0-Z-322.41	PROPOSED PALO SECO LATERAL
48.0-Z-323.28	ROAD CROSSING PR-165

LEGEND	
	Road
	Creek
	Fence
	O.H. Pwr. Ln.
	U.G. Cable
	Sewer Line
	Water Line
	Foreign Pipeline
	Property Line
	Municipality Line
	Survey/Section Ln.
	Karst Boundary
	Top Valve
	Main Line Valve
	Induction Bend
	Warning Sign
	Cont. Conc. Coating
	Set-On Weights
	Pipeline P.I.
	Extra workspace
	Parcel Number
	Transmission Tower
	Power Pole
	Mile Post
	Cathodic Test Sta.
	Equation
	Wetlands
	HDD Entry/Exit

NO.	REVISION	BY	DATE	CHKD	APP.
1	ISSUED FOR BID		11-30-2010		

AE **RAY**

DWN. BY: APB DATE: 09-03-2010

CHKD BY: DATE:

PROJ. ENGR.: DATE:

PROJ. MGR.: DATE:

CLIENT APP.: DATE:

SCALE: 1"=200'

VIA VERDE PIPELINE PROJECT

CONSTRUCTION ALIGNMENT SHEET
PROPOSED VIA VERDE PIPELINE
PALO SECO POWER STATION FEED LINES
STA. 0+00 TO STA. 19+48
CATAÑO, PUERTO RICO

DWG. NO. 48.0-Z-322.45

SHT. NO. 1 OF 1

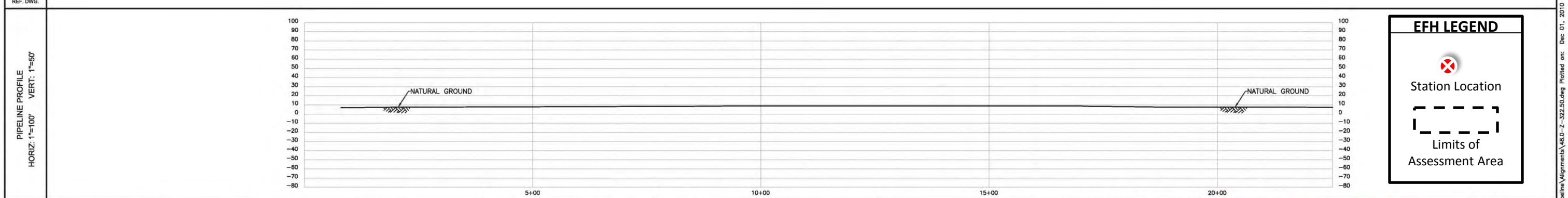
REV. 1

H:_Data\1448\600 - Pipeline\Alignments\48.0-Z-322.45.dwg Plotted on: Dec 01, 2010 - 10:02am by jmerrell

PARCEL	PIPE STATIONING	MATERIALS	
	0+00 BEGIN STA. PROPOSED SAN JUAN DELIVERY METER STATION FENCE 1+45 MANHOLE, 12' RT. 3+33 MANHOLE, 18' RT. 4+83 MANHOLE, 13' RT. 6+34 MANHOLE, 20' RT. 7+38 P.I. < 88'31"41" L.I. 8+10 MANHOLE, 28' RT. 8+17 GUY WIRE (TENSOR), 43' RT. 8+21 P.I. < 88'31"41" L.I. 8+28 BUILDING CORNER, 14' RT. 8+32 BUILDING CORNER, 15' RT. 8+35 BUILDING CORNER, 15' RT. 8+40 BUILDING CORNER, 14' RT. 8+44 BUILDING CORNER, 14' RT. 8+48 BUILDING CORNER, 14' RT. 8+52 BUILDING CORNER, 14' RT. 8+56 BUILDING CORNER, 14' RT. 8+60 BUILDING CORNER, 14' RT. 8+64 BUILDING CORNER, 14' RT. 8+68 BUILDING CORNER, 14' RT. 8+72 BUILDING CORNER, 14' RT. 8+76 BUILDING CORNER, 14' RT. 8+80 BUILDING CORNER, 14' RT. 8+84 BUILDING CORNER, 14' RT. 8+88 BUILDING CORNER, 14' RT. 8+92 BUILDING CORNER, 14' RT. 8+96 BUILDING CORNER, 14' RT. 8+100 BUILDING CORNER, 14' RT. 8+104 BUILDING CORNER, 14' RT. 8+108 BUILDING CORNER, 14' RT. 8+112 BUILDING CORNER, 14' RT. 8+116 BUILDING CORNER, 14' RT. 8+120 BUILDING CORNER, 14' RT. 8+124 BUILDING CORNER, 14' RT. 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ENV.	
MIN. COV.	5' COVER
REF. DWG.	



EFH LEGEND

Station Location

Limits of Assessment Area

ITEM NO.	DESCRIPTION	QTY.
15	TEST LEAD, CPA - TYPICAL	2
17	LINE MARKER	14
24	PIPE, 24" O.D. x 0.375" W.T., GR. B, W/14 MILS FBE	238'
26	PIPE, 24" O.D. x 0.375" W.T., GR. B, 14 MILS FBE W/ 4" CONC. COAT.	1960'
27	BEND - 50, 24" O.D. x 0.500" W.T., GR. B, TAPER BORED TO 0.375" W/ 14 MILS FBE	4
32	PIPE, 12" O.D. x 0.500" W.T., GR. B, W/14 MILS FBE	2216'
35	BEND - 50, 12" O.D. x 0.500" W.T., GR. B W/14 MILS FBE	4

ITEM NO.	DESCRIPTION	QTY.

REF. DWG.	DESCRIPTION
48.0-2-305.20	PROPOSED SAN JUAN METER STATION
48.0-2-321.98	PROPOSED VIA VERDE PIPELINE

LEGEND

	Road		Parcel Number
	Creek		Transmission Tower
	Fence		Power Pole
	O.H. Pwr. Ln.		Mile Post
	U.G. Cable		Cathodic Test Sta.
	Sewer Line		Elevation
	Water Line		Wetlands
	Foreign Pipeline		HDD Entry/Exit
	Property Line		
	Municipality Line		
	Survey/Section Ln.		
	Karst Boundary		

NO.	REVISION	BY	DATE	CHKD	APP.
1	ISSUED FOR BID		11-30-2010		

AE **RAY**

DWN. BY: APB DATE: 09-03-2010

CHKD BY: DATE:

PROJ. ENGR.: DATE:

PROJ. MGR.: DATE:

CLIENT APP.: DATE:

SCALE: 1"=100'

VIA VERDE PIPELINE PROJECT

CONSTRUCTION ALIGNMENT SHEET
PROPOSED VIA VERDE PIPELINE
SAN JUAN POWER STATION FEED LINES
STA. 0+00 TO STA. 22+52
GUAYNABO & SAN JUAN, PUERTO RICO

DWG. NO. 48.0-Z-322.50

SHT. NO. 1 OF 1

REV. 1

R:_dm\1448\600 - Pipeline\Alignments\48.0-2-322.50.dwg Plotted on: Dec 01, 2010 - 10:26am by jmeral