



SURVEY DATA	STATIONING
MATCHLINE 4950+00	4952+00 P.I. 854139' LT 4952+15 P.I. 854139' LT 4952+30 P.I. 854139' LT 4952+47 P.I. 854139' LT
	4956+88 FENCE
	4960+72 FENCE
	4965+23 P.I. 74338' LT
	4975+95 P.I. 49300' LT 4976+22 UNNAMED RD CL AR 1421 4977+14 UNNAMED RD CL AR 1421 4977+54 UNNAMED RD CL AR 1421 4978+67 DUMPS/STP PAD LT 1' 4978+88 DUMPS/STP PAD LT 1' 4978+98 POWER POLE RT 20' 4979+00 POWER LINE RT 20' ANCHOR 4979+69 RT 13'
	4993+36 BEGIN EQUATION
	4993+36 P.I. 6492014' RT
	4993+68 FENCE
	4993+80 UNDERGROUND TELEPHONE
	4994+25 CL DITCH LT 27'
	4994+32 CL DITCH LT 27'
	4994+37 SIGN LT 25'
	4994+61 TOP OF BANK
	4994+79 SE 224 ST
	4994+92 ROAD EDGE
	4995+22 CL DITCH
	4995+38 GATE RT 116'
	4995+39 POWER POLE
	4995+41 TOP OF BANK
	4995+55 UNNAMED RD
	4995+55 UNNAMED RD
	4995+82 FENCE CORNER RT 22'
	4995+88 POWER LINE
	4996+05 POWER POLE LT
	4996+05 POWER POLE LT
	4996+10 35' FENCE CORNER
	4996+22 GATE LT 56'
	4996+32 50' POWER POLE LT
	4996+35 CATTLE GUARD
	4996+55 LT 80'
	4996+55 CL AR 1422
	4997+32 3-7K# SBW 15 CC
	4997+32 P.I. 4439359' LT
	EO. 4997+42 AH (+4)
	EO. 4997+42 AH (+4)
	4997+44 FENCE
	4997+51 POWER LINE
	4997+51 UNNAMED RD CL AR 1421
	4997+83 CL AR 1421
	4998+00 FENCE CORNER
	4998+05 TOE OF SLOPE
	4998+08 FENCE CORNER
	4998+14 TOP OF BANK
	4998+15 FENCE
	4998+05 P.I. 552224' RT
	MATCHLINE 5000+00

ENGINEERING DATA	MATERIAL
MATCHLINE 4950+00	231' 180' 5" CCC
	8-7K# SBW 11.5 CC
	1720'-6" CCC
	4115'
	IB-208
	4975+95
	4975+95
	4976+47
	4965+23
	4968+87
	IB-209
	260'
	35'
	28'
	20'
	IB-210
	80'
	109'
	IB-210
	68'
	MATCHLINE 5000+00

ENVIRONMENTAL DATA	STATIONS
WATERBODY/WETLAND CROSSINGS	W-480A W-480B W-480B
WATERBODY/WETLAND LENGTH	873' 166' 743'
PERMANENT EROSION CONTROL	4958+73 4959+73
THREATENED AND ENDANGERED SPECIES	4960+39 4881+84
SPECIAL CONDITIONS	4860+37

REFERENCE DRAWING	CLASS LOCATION	MINIMUM DEPTH OF COVER	AC MITIGATION / CATHODIC PROTECTION
	Class I 4952+31		
	Class III	3'	
		SEE REF DWG	3'
			Class I

BILL OF MATERIALS			
ITEM NO.	QTY	UOM	DESCRIPTION
Z	299	FT	30" O.D. x 0.429" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE
10	340	FT	30" O.D. x 0.617" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO
12	4282	FT	30" O.D. x 0.617" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE
13	55	FT	30" O.D. x 0.625" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE

MISCELLANEOUS MATERIALS			
QTY	UOM	RECN NUMBER	DESCRIPTION
11	EA		SET ON WEIGHTS
6	EA		PIPELINE MARKERS
3	EA		WARNING SIGNS
1	EA		CP TEST STATION TYPE 1
0	EA		CP TEST STATION TYPE 2
1	EA		AERIAL MARKERS
0	EA		ANODE BED DEEP WELL

TYPICAL DRAWINGS		GENERAL INFORMATION	
DWG/FIELD BOOK NO.	TITLE	DESCRIPTION	NOTES
21040-510-TYP-20001	CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1		1. THE MINIMUM DEPTH OF COVER FOR THE PROJECT IS 36 INCHES. ADDITIONAL DEPTH OF COVER IS REQUIRED FOR ROAD AND WATERBODY CROSSINGS, AND IS TO BE IN ACCORDANCE WITH REFERENCED PERMIT DRAWINGS, SITE SPECIFIC DRAWINGS, OR CONSTRUCTION SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
21040-510-TYP-20002	CATHODIC PROTECTION STD. FOREIGN PIPELINE CROSSING TEST STATION, TYPE 2		2. THE BOUNDARIES OF ALL WORK AREAS WILL BE CLEARLY MARKED AND ALL WORK SHALL REMAIN WITHIN THE DESIGNATED WORK AREA.
21040-510-TYP-20028	CONTINUOUS CONCRETE COATING STANDARD FOR 36" / 30" PIPELINE		3. THE REQUIRED STATE ONE CALL NOTIFICATION IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.
21040-510-TYP-20029	WARNING SIGN DETAIL		4. THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.
21040-510-TYP-20112	TYPICAL OPEN CUT / BORE		5. ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DICTATED BY CONSTRUCTION CONTRACT.
21040-510-TYP-20113	TYPICAL SADDLE BAG WEIGHTS		6. MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA EAST FIPS 0901 FEET. VERTICAL DATUM: NAVD 88.
21040-510-TYP-20114	WARNING SIGN DETAIL		
21040-510-TYP-20115	AERIAL MARKER INSTALLATION DETAIL		
21040-510-TYP-20116	AERIAL MARKER DETAIL		
21040-510-TYP-20117	TYPICAL PIPELINE MARKER ASSEMBLY		
21040-510-TYP-20118	PIPELINE MARKER "WARNING" DECAL		

LEGEND	
HDD PIPE	PIPELINE ROUTE
BORE PIPE	FENCE
LINE PIPE	POWER LINE
IR RAD FIT	TELEPHONE LINE
INDUCTION BEND	WATERLINE
TRANSITION PIPE	SEWER LINE
CONT. CONC. COAT.	BURIED CABLE
SET ON WEIGHTS	UTILITY LINE
WARNING SIGN	GENERAL SURVEY
MATERIAL ITEM	FOREIGN PIPELINE
AERIAL MARKER	RAILROAD
CP TEST STATION	PRIVATE ACCESS / SHOOPLY ROAD
BY MOV. BY V CV	COUNTY BOUNDARY
PIPELINE MARKER	ROW PARCEL
PIPELINE MILEPOST	PLSS SECTION LINE
ANODE BED DEEP WELL	TRAP
	WATER WELL
	HDD ENTRY / EXIT
	PERMANENT ROW
	TEMPORARY WORKSPACE
	ADDITIONAL TEMPORARY WORKSPACE
	NON FORESTED WETLAND
	FORESTED WETLAND
	WATERBODY
	PARCEL NUMBER
	WETLAND / WATERBODY NAME
	ROCKERY BUFFER (1000 FEET)
	TYPICAL DETAIL CONFIGURATION
	POINT OF INTERSECTION (PI)
	VERTICAL FITTING
	SPREAD BREAK
	ENVIRONMENTAL SURVEY AREA

REVISIONS			
NO.	DESCRIPTION	DATE	REV BY
1	IFC (UPDATE ENV., RE-ROUTES, FOOT-PRINT)	2016-04-08	MB MJ RG
0	ISSUED FOR CONSTRUCTION	2015-12-15	MB MJ RG

APPROVALS	
DRAWN BY:	MB
CHECKED BY:	MJ
PROJECT MANAGER:	RG
PROJECT DEF. NO.:	
CONSTRUCTION PERMIT NO.	
MAINTENANCE OPERATION REGION	
MIN. TEST PRESSURE	1816 PSI
DESIGN PRESSURE	1440 PSI