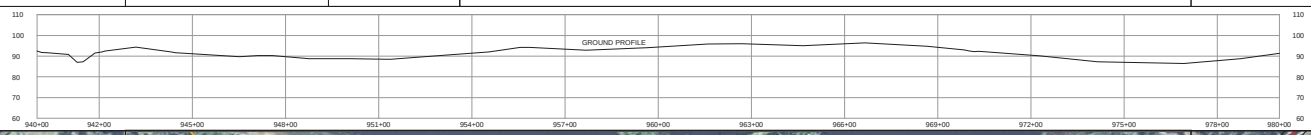
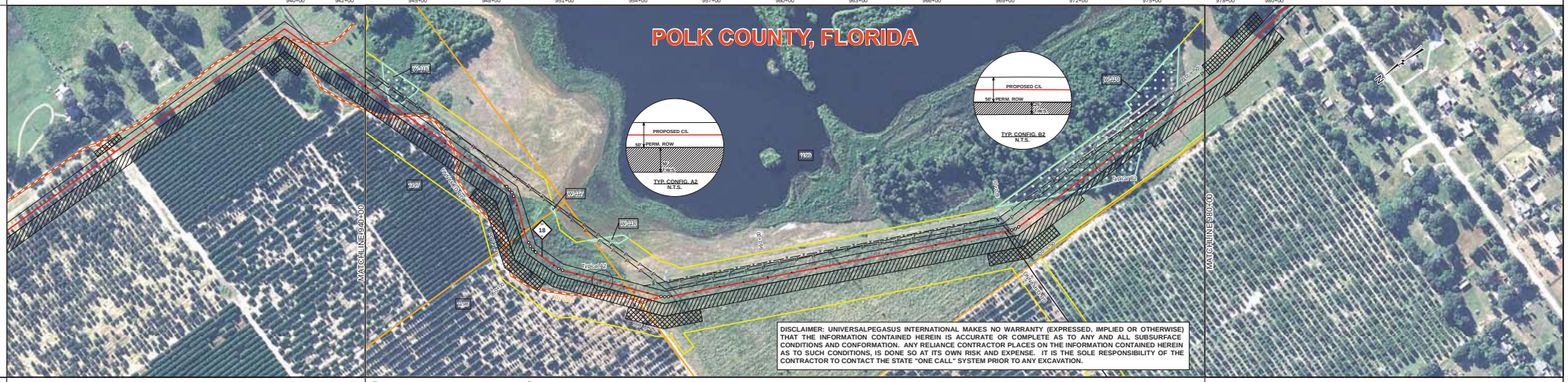
TRACT	MATCHLINE 940+00	1197 HOLMES GARDENS ASSOCIATES, LTD. 910 FT 940+00 TO 949+10	1198 B & D, LLC 509 FT 949+10 TO 954+19	1199 HOLMES GARDENS ASSOCIATES, LTD. 2581 FT 954+19 TO 980+00	MATCHLINE 980+00

GROUND PROFILE HORIZ: 1" = 200' VERT: 1" = 30'



SCALE: 1" = 200'



SURVEY DATA

STATIONING

940+03 TOE OF SLOPE
940+05 PROP. ROW CORNER RT 12'
941+00 TOE OF SLOPE
941+03 TOP OF BANK
941+08 TOP OF BANK
942+00 CL AR 1342
942+03 UNNAMED RD
942+14 ROAD EDGE
944+39 ROAD EDGE
944+43 CL AR 1342
944+47 UNNAMED RD
944+53 ROAD EDGE
947+10 PI 9°12'45" RT
947+20 PI 9°12'45" RT
948+74 PI 9°12'45" RT
949+00 PROP. ROW CORNER RT 18'
949+00 PI 9°16'41" LT
949+05 PI 9°16'41" LT
949+10 PI 9°16'41" LT
954+19 PI 10°53'35" LT
955+71 PI 10°53'35" LT
955+71 PI 8°38'10" LT
960+00 POWER LINE LT 45'
965+58 PI 8°38'10" LT
965+58 PI 9°16'41" LT
965+58 PI 9°16'41" LT
969+97 UNNAMED RD
969+99 PROP. ROW LINE LT 18'
969+99 PI 8°43'16" LT
970+31 PI 8°43'16" LT
972+69 PI 8°43'16" LT
977+12 PI 8°43'16" LT

ENGINEERING DATA

MATERIAL

5 4000'

78-9K# SBW 11.5 CC

940+03 947+10 949+74 955+71 965+58 965+58 969+97 969+99 970+31 978+42

REFERENCE DRAWING	
CLASS LOCATION	Class II
MINIMUM DEPTH OF COVER	3' 4' 3' 4' 3'
AC MITIGATION / CATHODIC PROTECTION	

ENVIRONMENTAL DATA

WATERBODY/WETLAND CROSSINGS	W 210
WATERBODY/WETLAND LENGTH	49.5'
STATIONS	942+03 942+15 944+39 944+53 972+69 977+12
PERMANENT EROSION CONTROL: EROSION CONTROL CODE	THIS BAND NOT UTILIZED
PERMANENT EROSION CONTROL: SLOPE BREAKER CODE	THIS BAND NOT UTILIZED
PERMANENT EROSION CONTROL: TOPSOIL SALVAGE	THIS BAND NOT UTILIZED
THREATENED AND ENDANGERED SPECIES	
SPECIAL CONDITIONS: TIMING CONSTRAINT	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS: CONSTRAINT 2	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS: CONSTRAINT 3	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS: CONSTRAINT 4	THIS BAND NOT UTILIZED

BILL OF MATERIALS

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
5	4000	FT			36" O.D. x 0.625" W.T., API 5L, X70, PSL2, DSAW, 14-16 MLS FBE

MISCELLANEOUS MATERIALS

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
78	EA			SET ON WEIGHTS
5	EA			PIPELINE MARKERS
3	EA			WARNING SIGNS
0	EA			CP TEST STATION TYPE 1
0	EA			CP TEST STATION TYPE 2
0	EA			AERIAL MARKERS
0	EA			ANODE BED DEEP WELL

FITTINGS SUMMARY

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION

PIPE ASSEMBLIES

QTY	UOM	DESCRIPTION

CONTINUOUS CONCRETE COATING

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION

PIPE COATING DATA

PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO

GIRTH WELD COATING: 2 PART EPOXY

INTERNAL COATING (YES/NO): NO

TYPICAL DRAWINGS

DWG/FIELD BOOK NO.	TITLE
21040-510-TYP-20001	CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1
21040-510-TYP-20002	CATHODIC PROTECTION STD. FOREIGN PIPELINE CROSSING TEST STATION, TYPE 2
21040-510-TYP-20028 21040-510-TYP-20029	TYPICAL OPEN CUT / BORE
21040-510-TYP-20112	CONTINUOUS CONCRETE COATING STANDARD FOR 36" / 30" PIPELINE
21040-510-TYP-20113	TYPICAL SADDLE BAG WEIGHTS
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

GENERAL INFORMATION

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.
2. THE BOUNDARIES OF ALL WORK AREAS WILL BE CLEARLY MARKED AND ALL WORK SHALL REMAIN WITHIN THE DESIGNATED WORK AREA.
3. THE REQUIRED STATE ONE CALL NOTIFICATION IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.
4. THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.
5. ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DICTATED BY CONSTRUCTION CONTRACT.
6. MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA EAST FIPS 0901 FEET. VERTICAL DATUM: NAVD 88.

SPECIAL NOTES

1. INDUCTION BEND QUANTITIES ALONG WITH THEIR DESCRIPTIONS ARE LOCATED ON DRAWING 21040-505-FBW-00001.
2. SEE ARK DRAWING PACKAGE FOR ANODE BED DEEP WELL.

LEGEND

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

REVISIONS

NO.	DESCRIPTION	DATE	REV BY	CHK BY	APP 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

	APPROVAL	COMPANY
ENVIRONMENTAL		
LAND		

0 100 200 400 600 800

1 INCH = 200 FT

APPROVALS

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

UniversalPegasus INTERNATIONAL — A Subsidiary of Huntington Ingalls Industries

FLORIDA SOUTHEAST CONNECTION

FLORIDA SOUTHEAST CONNECTION PROJECT

STA: 940+00 TO 980+00 | DISCIPLINE#: 03

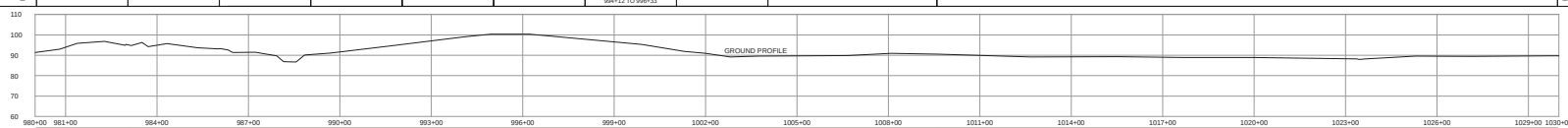
FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET POLK COUNTY, FLORIDA

SCALE: 1" = 200' | 21040-510-ALS-00021 | REV. 1

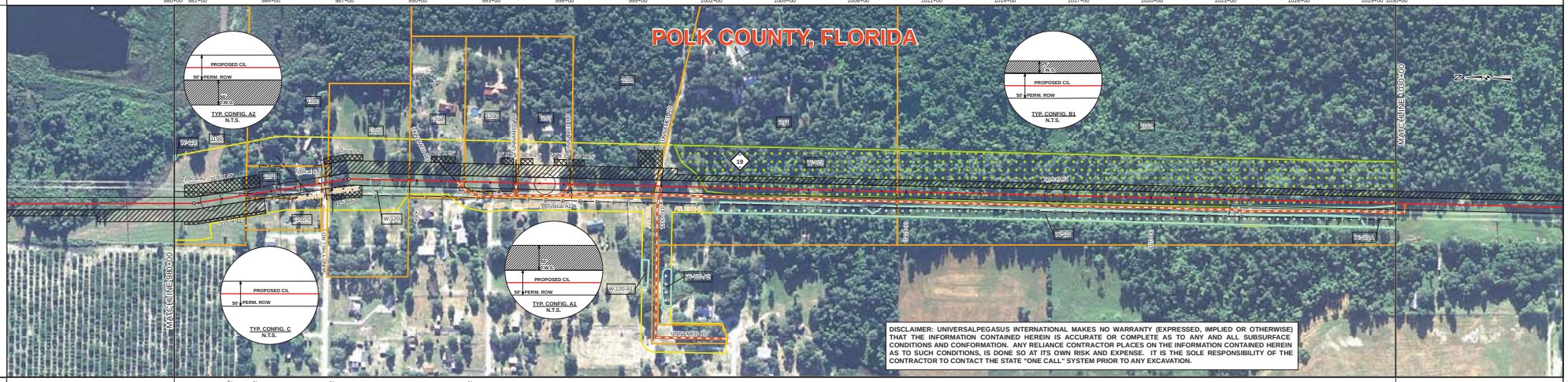
TRACT	1199 HOLMES GARDENS ASSOCIATES, LTD. 297 FT 980+00 TO 982+97	1201 MICHAEL ALLEN COLE 302 FT 982+97 TO 985+99	WINDY HILL RD POLK COUNTY 35 FT 985+99 TO 986+34	1203 BETTY L. CARR AND ROBERT C. BLUE 334 FT 986+34 TO 989+68	1204 KEITH E. WEBSTER AND BIRDIE L. WEBSTER 224 FT 989+68 TO 991+92	1206 JULIE E. FIREBAUGH AND DENNIS E. GLASS 220 FT 991+92 TO 994+12	1207 NELSON J. RHEAUME AND JAMES A. RHEAUME, LAURA A. RHEAUME 221 FT 994+12 TO 996+33	1209 WASHITA LAND, INC. 343 FT 996+33 TO 999+76	1211 E. WILLIAM BARNHART AND ANGIE O. BARNHART 987 FT 999+76 TO 1009+63	1212 BARBARA LOUISE VAUGHN HUNTER 2037 FT 1009+63 TO 1030+00

MATCHLINE 980+00 / MATCHLINE 1030+00

GROUND PROFILE HORIZ: 1" = 200' VERT: 1" = 30'



SCALE: 1" = 200'



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SURVEY DATA — STATIONING

980+41 PI, BS312-1
982+95 IRON PIPE RT 32'
982+98 FENCE POST
983+36 POWER LINE CLOSE CORNER LT 24'
984+08 POWER POLE RT 22'
984+30 POWER POLE RT 22'
984+55 POWER POLE RT 22'
984+78 POWER POLE RT 18'
984+81 FENCE CORNER LT 14'
985+00 ROAD EDGE
985+00 POWER LINE
985+00 POWER LINE
985+00 POWER LINE
985+23 ROAD EDGE
985+25 WINDY HILL RD.
987+22 PI, 10°14'18" RT
987+50 PI, 10°14'18" RT
988+34 WATER EDGE
988+47 WATER EDGE
988+55 WATER BANK
989+46 POWER POLE
989+47 LT 21'
989+49 FENCE
991+00 CL AR 1345
991+26 WINDY HILL RD
991+26 POWER LINE
991+36 FENCE CORNER RT 21'
993+32 FENCE
994+00 CL AR 1345
994+00 WINDY HILL RD
994+13 POWER LINE
996+31 UNNAMED RD
996+31 CL AR 1344-A
996+33 FENCE
999+74 FENCE
999+96 CL AR 1220
999+96 UNNAMED RD
1023+81 FENCE
1023+81 WATER EDGE
1023+44 CL DITCH
1023+49 WATER EDGE

MATCHLINE 980+00 / MATCHLINE 1030+00

ENGINEERING DATA — MATERIAL

5 376' | 4 280' | 14-9K# SBW 11.5 CC | 22-9K# SBW 11.5 CC | 5 4344' | 2876'-7" CCC

980+41 | 983+76 | 985+99 | 986+51 | 986+56 | 987+22 | 987+50 | 989+09 | 993+32 | 996+33 | 998+72 | 999+74 | 1000+21 | 1001+13 | 1001+24 | 1009+61 | 1019+61 | 1023+31 | 1023+69

REFERENCE DRAWING	21040-440-PMW-00061
CLASS LOCATION	Class II
MINIMUM DEPTH OF COVER	3' | SEE REF DWG | 3' | 4' | 3' | 3' | 3'
AC MITIGATION / CATHODIC PROTECTION	CCP 216 | 1,684 feet of single strand zinc ribbon | RCD 216 | 196 feet of single strand zinc ribbon
WATERBODY/WETLAND CROSSINGS	W-122-A1 | W-122
WATERBODY/WETLAND LENGTH	55' | 2826'
STATIONS	983+76 | 986+56 | 986+73 | 988+11 | 988+57 | 996+30 | 1000+00 | 1001+57 | 1001+74 | 1003+23 | 1023+34 | 1023+54
PERMANENT EROSION CONTROL: EROSION CONTROL CODE	THIS BAND NOT UTILIZED
PERMANENT EROSION CONTROL: SLOPE BREAKER CODE	THIS BAND NOT UTILIZED
PERMANENT EROSION CONTROL: TOPSOIL SALVAGE	THIS BAND NOT UTILIZED
THREATENED AND ENDANGERED SPECIES	
SPECIAL CONDITIONS: DWING CONSTRAINT	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS: CONSTRAINT 2	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS: CONSTRAINT 3	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS: CONSTRAINT 4	THIS BAND NOT UTILIZED

MATCHLINE 980+00 / MATCHLINE 1030+00

BILL OF MATERIALS

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
4	280	FT			36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO
5	4720	FT			36" O.D. x 0.625" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE

MISCELLANEOUS MATERIALS

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
36	EA			SET ON WEIGHTS
3	EA			PIPELINE MARKERS
8	EA			WARNING SIGNS
2	EA			CP TEST STATION TYPE 1
0	EA			CP TEST STATION TYPE 2
0	EA			AERIAL MARKERS
0	EA			ANODE BED DEEP WELL

FITTINGS SUMMARY

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION

CONTINUOUS CONCRETE COATING

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
2876	FT			7" OF CONTINUOUS CONCRETE COATING (140 PCF DENSITY CONCRETE)

PIPE COATING DATA

PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO
GIRTH WELD COATING: 2 PART EPOXY
INTERNAL COATING (YES/NO): NO

PIPE ASSEMBLIES

QTY	UOM	DESCRIPTION

TYPICAL DRAWINGS

DWG/FIELD BOOK NO.	TITLE
21040-510-TYP-20001	CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1
21040-510-TYP-20002	CATHODIC PROTECTION STD. FOREIGN PIPELINE CROSSING TEST STATION, TYPE 2
21040-510-TYP-20028 21040-510-TYP-20029	TYPICAL OPEN CUT / BORE
21040-510-TYP-20112	CONTINUOUS CONCRETE COATING STANDARD FOR 36" / 30" PIPELINE
21040-510-TYP-20113	TYPICAL SADDLE BAG WEIGHTS
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

GENERAL INFORMATION

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.
2. THE BOUNDARIES OF ALL WORK AREAS WILL BE CLEARLY MARKED AND ALL WORK SHALL REMAIN WITHIN THE DESIGNATED WORK AREA.
3. THE REQUIRED STATE ONE CALL NOTIFICATION IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.
4. THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.
5. ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DICTATED BY CONSTRUCTION CONTRACT.
6. MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA EAST FIPS 0901 FEET. VERTICAL DATUM: NAVD 88.

SPECIAL NOTES

1. INDUCTION BEND QUANTITIES ALONG WITH THEIR DESCRIPTIONS ARE LOCATED ON DRAWING 21040-505-FBW-00001.
2. SEE ARK DRAWING PACKAGE FOR ANODE BED DEEP WELL.

LEGEND

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

0 100 200 400 600 800

1 INCH = 200 FT

REVISIONS

NO.	DESCRIPTION	DATE	REV BY	CHK BY	APP 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

	APPROVAL	COMPANY
ENVIRONMENTAL		
LAND		

APPROVALS

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

UniversalPegasus INTERNATIONAL — A Subsidiary of Huntington Ingalls Industries

FLORIDA SOUTHEAST CONNECTION

FLORIDA SOUTHEAST CONNECTION PROJECT

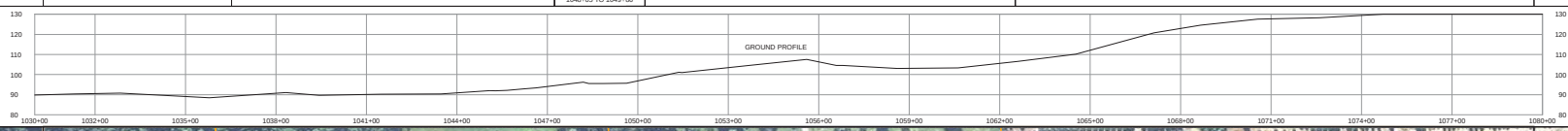
STA: 980+00 TO 1030+00 | DISCIPLINE#: 03

FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET POLK COUNTY, FLORIDA

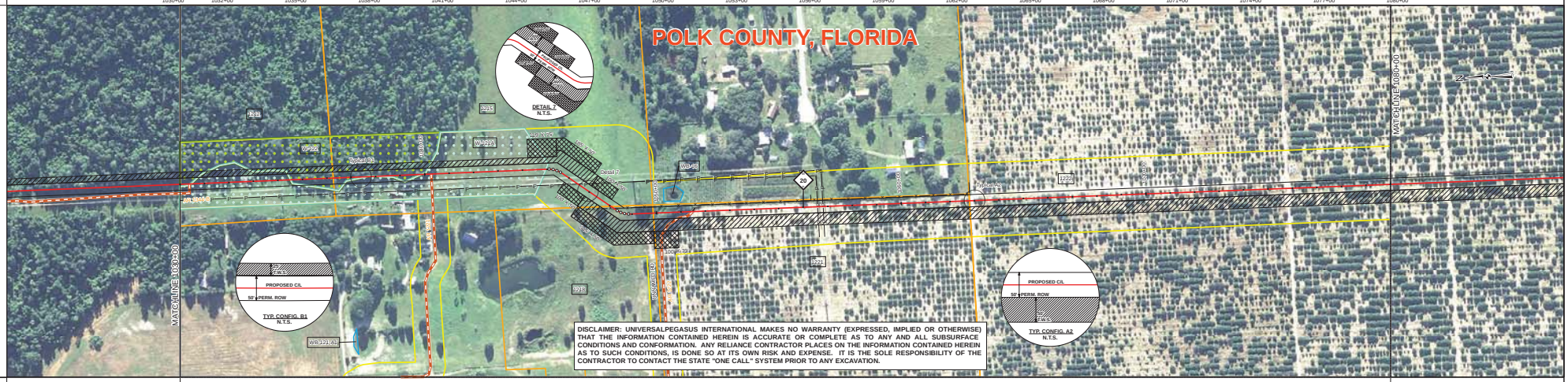
SCALE: 1" = 200' | 21040-510-ALS-00022 | REV. 1

TRACT	1212 BARBARA LOUISE VAUGHN HUNTER 625 FT 1030+00 TO 1036+25	1215 ELLERY BRICE FARMER AND NICOLE FARMER 1180 FT 1036+25 TO 1048+05	1218 TERRY ARNOLD AND SONNDRA FARMER ARNOLD 181 FT 1048+05 TO 1049+86	1221 SEIBELS ENTERPRISES, INC. 1293 FT 1049+86 TO 1062+79	1222 JOHNSTON PROPERTIES, INC. 1721 FT 1062+79 TO 1080+00

GROUND PROFILE HORIZ: 1" = 200' VERT: 1" = 30'



SCALE: 1" = 200'



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SURVEY DATA

STATIONING

1030+08 CL AR 1344-8
1040+26 CL AR 1221
1045+06 R 2/3/17 RT
1045+41 R 2/3/17 RT
1045+61 R 2/3/17 RT
1046+42 POWER LINE
1046+19 FENCE
1046+37 R 2/3/17 LT
1046+53 R 2/3/17 LT
1046+85 R 2/3/17 LT
1051+40 ROAD EDGE
1051+47 CL AA 1222
1051+47 CL AA 1222
1051+54 ROAD EDGE
1056+68 POWER LINE
1056+80 POWER LINE

ENGINEERING DATA

MATERIAL

1495'-7" CCC
5000'
1033+49
1043+49
1044+95
1045+25
1048+53
1051+15
1051+35
1058+17
1068+17
1079+17

REFERENCE DRAWING	
CLASS LOCATION	Class II
MINIMUM DEPTH OF COVER	3' 4' 3'
AC MITIGATION / CATHODIC PROTECTION	736 feet of double strand zinc ribbon (two 30# anodes on either side of the pipeline) install 30' of ground rods every 30' (14 total locations) DCO-22A; 930 feet of double strand zinc ribbon (two 40# anodes on either side of the pipeline) install 30' ground rods every 30' (16 total locations) DCO-23A; 1,200 feet of double strand zinc ribbon (two 60# anodes on either side of the pipeline) install 30' ground rods every 30' (18 total locations) DCO-24A; 930 feet of double strand zinc ribbon (two 40# anodes on either side of the pipeline) install 30' ground rods every 30' (16 total locations) DCO-25A
WATERBODY/WETLAND CROSSINGS	W-122; W-121.A; W-122; W-122.A; W-122; W-121.B
WATERBODY/WETLAND LENGTH	44'; 402'; 312'; 28'; 195'; 508'

ENVIRONMENTAL DATA

STATIONS

1030+44 1033+44; 1034+51 1034+61; 1037+63 1037+53 1037+49 1037+92; 1039+87 1039+67 1041+37; 1044+95 1045+06; 1049+07 1049+92; 1052+83; 1056+42; 1059+23; 1056+08; 1069+08; 1075+61 1075+56

PERMANENT EROSION CONTROL: EROSION CONTROL CODE	THIS BAND NOT UTILIZED; THIS BAND NOT UTILIZED
PERMANENT EROSION CONTROL: SLOPE BREAKER CODE	THIS BAND NOT UTILIZED
PERMANENT EROSION CONTROL: TOPSOIL SALVAGE	THIS BAND NOT UTILIZED
THREATENED AND ENDANGERED SPECIES	Potential Sand Skink Habitat
SPECIAL CONDITIONS: TIMING CONSTRAINT	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS: CONSTRAINT 2	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS: CONSTRAINT 3	THIS BAND NOT UTILIZED
SPECIAL CONDITIONS: CONSTRAINT 4	THIS BAND NOT UTILIZED

BILL OF MATERIALS

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
5	5000	FT			36" O.D. x 0.625" W.T., API 5L, X70, PSL2, DSAW, 14-16 MLS FBE

FITTINGS SUMMARY

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION

PIPE ASSEMBLIES

QTY	UOM	DESCRIPTION

MISCELLANEOUS MATERIALS

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
0	EA			SET ON WEIGHTS
7	EA			PIPELINE MARKERS
0	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

CONTINUOUS CONCRETE COATING

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
1495	FT			7" OF CONTINUOUS CONCRETE COATING (140 PCF DENSITY CONCRETE)

PIPE COATING DATA

PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO
GIRTH WELD COATING: 2 PART EPOXY
INTERNAL COATING (YES/NO): NO

TYPICAL DRAWINGS

DWG/FIELD BOOK NO.	TITLE
21040-510-TYP-20001	CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1
21040-510-TYP-20002	CATHODIC PROTECTION STD. FOREIGN PIPELINE CROSSING TEST STATION, TYPE 2
21040-510-TYP-20028 21040-510-TYP-20029	TYPICAL OPEN CUT / BORE
21040-510-TYP-20112	CONTINUOUS CONCRETE COATING STANDARD FOR 36" / 30" PIPELINE
21040-510-TYP-20113	TYPICAL SADDLE BAG WEIGHTS
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

GENERAL INFORMATION

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.
2. THE BOUNDARIES OF ALL WORK AREAS WILL BE CLEARLY MARKED AND ALL WORK SHALL REMAIN WITHIN THE DESIGNATED WORK AREA.
3. THE REQUIRED STATE ONE CALL NOTIFICATION IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR.
4. THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.
5. ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DICTATED BY CONSTRUCTION CONTRACT.
6. MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA EAST FIPS 0901 FEET. VERTICAL DATUM: NAVD 88.

SPECIAL NOTES

1. INDUCTION BEND QUANTITIES ALONG WITH THEIR DESCRIPTIONS ARE LOCATED ON DRAWING 21040-505-FBW-00001.
2. Ⓐ - SEE ARK DRAWING PACKAGE FOR ANODE BED DEEP WELL.

LEGEND

HDD PIPE; BORE PIPE; LINE PIPE; 3R ROD PIT; INDUCTION BEND; TRANSITION PIPE; CONT CONC COAT; SET-ON WEIGHTS; WARNING SIGN; MATERIAL ITEM; AERIAL MARKER; CP TEST STATION; BV MOV / BV & CV; PIPELINE MARKER; PIPELINE MILEPOST; ANODE BED DEEP WELL; PIPELINE ROUTE; FENCE; POWER LINE; TELEPHONE LINE; WATERLINE; SEWER LINE; BURIED CABLE; UTILITY LINE; GENERAL SURVEY; FOREIGN PIPELINE; RAILROAD; HIGHWAY / ROAD; PRIVATE ACCESS / SHIDDLY ROAD; COUNTY BOUNDARY; ROW PARCEL; PLSS SECTION LINE; TRAP; WATER WELL; HDD ENTRY / EXIT; PERMANENT ROW; TEMPORARY WORKSPACE; ADDITIONAL TEMPORARY WORKSPACE; NON FORESTED WETLAND; FORESTED WETLAND; WATERBODY; PARCEL NUMBER; WETLAND / WATERBODY NAME; RODNERY; RODNERY BUFFER (1000 FEET); TYPICAL / DETAIL CONFIGURATION; POINT OF INTERSECTION (PI); VERTICAL FITTING; SPREAD BREAK; ENVIRONMENTAL SURVEY AREA

REVISIONS

NO.	DESCRIPTION	DATE	REV BY	CHK BY	APP 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

	APPROVAL	COMPANY
ENVIRONMENTAL		
LAND		

0 100 200 400 600 800

1 INCH = 200 FT

APPROVALS

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

UniversalPegasus INTERNATIONAL — A Subsidiary of Huntington Ingalls Industries

FLORIDA SOUTHEAST CONNECTION

FLORIDA SOUTHEAST CONNECTION PROJECT

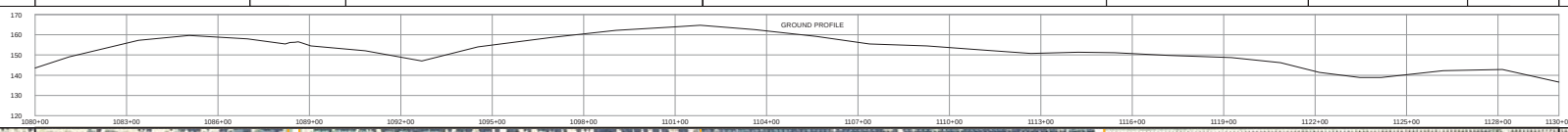
STA: 1030+00 TO 1080+00 — DISCIPLINE#: 03

FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET POLK COUNTY, FLORIDA

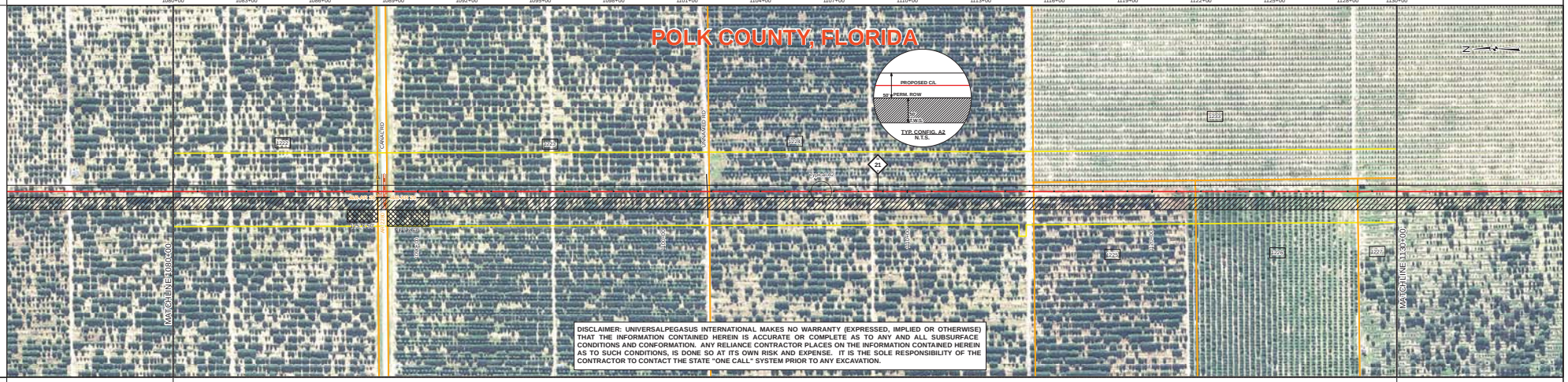
SCALE: 1" = 200' — 21040-510-ALS-00023 — REV. 1

TRACT	1222 JOHNSTON PROPERTIES, INC. 835 FT 1080+00 TO 1088+35	CANAL RD POLK COUNTY 38 FT 1088+35 TO 1088+73	1223 ESTES GROVES, INC. 1317 FT 1088+73 TO 1101+90	1224 SEIBELS ENTERPRISES, INC. 1326 FT 1101+90 TO 1115+16	1225 JOHN CLAY HENDERSON TRUST 662 FT 1115+16 TO 1121+78	1226 TEA GROVES 662 FT 1121+78 TO 1128+40	1227 TUAN NGUYEN AND DAI THI TRANG 160 FT 1128+40 TO 1130+00

GROUND PROFILE
HORIZ: 1" = 200'
VERT: 1" = 30'



SCALE: 1" = 200'



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SURVEY DATA

STATIONING

3089+36 POWER LINE
3088+36 POWER POLE
3088+73 ROAD EDGE
3088+53 ROAD EDGE
3088+63 C.MAT. 2280
3088+73 C.MAT. 2280
3088+73 ROAD EDGE

1101+82 UNNAMED RD

ENGINEERING DATA

MATERIAL

5 824'
4 80'
5 4096'

1088+17
1089+24
1089+04
1088+36
1088+96
1089+96
1089+04

1101+68
1101+98
1103+97
1111+98
1121+98

REFERENCE DRAWING	21040-440-PMW-00021
CLASS LOCATION	Class II
MINIMUM DEPTH OF COVER	3' 4' 3' SEE REF DWG 3' 4' 3' 4' 3' 4' 3' 4' 3'
AC MITIGATION / CATHODIC PROTECTION	

ENVIRONMENTAL DATA

WATERBODY/WETLAND CROSSINGS		
WATERBODY/WETLAND LENGTH		
STATIONS		1082+16 1082+46; 3089+24; 3089+04; 1095+34 1095+68; 1101+68 1101+98; 1108+37 1108+72; 1114+69 1115+20
PERMANENT EROSION CONTROL	EROSION CONTROL CODE	THIS BAND NOT UTILIZED
	SLOPE BREAKER CODE	THIS BAND NOT UTILIZED
	TOPSOIL SALVAGE	THIS BAND NOT UTILIZED
THREATENED AND ENDANGERED SPECIES		
SPECIAL CONDITIONS	NWPO CONSTRAINT	THIS BAND NOT UTILIZED
	CONSTRAINT 2	THIS BAND NOT UTILIZED
	CONSTRAINT 3	THIS BAND NOT UTILIZED
	CONSTRAINT 4	THIS BAND NOT UTILIZED

BILL OF MATERIALS

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
4	80	FT			36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO
5	4920	FT			36" O.D. x 0.625" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE

MISCELLANEOUS MATERIALS

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
0	EA			SET ON WEIGHTS
4	EA			PIPELINE MARKERS
4	EA			WARNING SIGNS
1	EA			CP TEST STATION TYPE 1
0	EA			CP TEST STATION TYPE 2
0	EA			AERIAL MARKERS
0	EA			ANODE BED DEEP WELL

FITTINGS SUMMARY

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION

PIPE ASSEMBLIES

QTY	UOM	DESCRIPTION

CONTINUOUS CONCRETE COATING

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION

PIPE COATING DATA

PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO
GIRTH WELD COATING: 2 PART EPOXY
INTERNAL COATING (YES/NO): NO

TYPICAL DRAWINGS

DWG/FIELD BOOK NO.	TITLE
21040-510-TYP-20001	CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1
21040-510-TYP-20002	CATHODIC PROTECTION STD. FOREIGN PIPELINE CROSSING TEST STATION, TYPE 2
21040-510-TYP-20028 21040-510-TYP-20029	TYPICAL OPEN CUT / BORE
21040-510-TYP-20112	CONTINUOUS CONCRETE COATING STANDARD FOR 36" / 30" PIPELINE
21040-510-TYP-20113	TYPICAL SADDLE BAG WEIGHTS
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

GENERAL INFORMATION

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.
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4. THE CONTRACTOR SHALL ACCESS THE WORK AREA USING ONLY PUBLIC ROADS AND APPROVED ACCESS ROADS.
5. ADDITIONAL WARNING SIGNS MAY BE REQUIRED AS DICTATED BY CONSTRUCTION CONTRACT.
6. MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA EAST FIPS 0901 FEET. VERTICAL DATUM: NAVD 88.

SPECIAL NOTES

1. INDUCTION BEND QUANTITIES ALONG WITH THEIR DESCRIPTIONS ARE LOCATED ON DRAWING 21040-505-FBW-00001.
2. SEE ARK DRAWING PACKAGE FOR ANODE BED DEEP WELL.

LEGEND

HDD PIPE
BORE PIPE
LINE PIPE
3R RAD FIT
INDUCTION BEND
TRANSITION PIPE
CONT. CONC. COAT.
SET-ON WEIGHTS
WARNING SIGN
MATERIAL ITEM
AERIAL MARKER
CP TEST STATION
BV MOV / BV & CV
PIPELINE MARKER
PIPELINE MILEPOST
ANODE BED DEEP WELL
PIPELINE ROUTE
FENCE
POWER LINE
TELEPHONE LINE
WATERLINE
SEWER LINE
BURIED CABLE
UTILITY LINE
GENERAL SURVEY
FOREIGN PIPELINE
RAILROAD
HIGHWAY / ROAD
PRIVATE ACCESS / SHORELY ROAD
COUNTY BOUNDARY
ROW PARCEL
PLSS SECTION LINE
TRAP
WATER WELL
HDD ENTRY / EXIT
PERMANENT ROW
TEMPORARY WORKSPACE
ADDITIONAL TEMPORARY WORKSPACE
NON FORESTED WETLAND
FORESTED WETLAND
WATERBODY
PARCEL NUMBER
WETLAND / WATERBODY NAME
ROOKERY
ROOKERY BUFFER (1000 FEET)
TYPICAL / DETAIL CONFIGURATION
POINT OF INTERSECTION (PI)
VERTICAL FITTING
SPREAD BREAK
ENVIRONMENTAL SURVEY AREA

REVISIONS

NO.	DESCRIPTION	DATE	REV BY	CHK BY	APP 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

	APPROVAL	COMPANY
ENVIRONMENTAL		
LAND		

0 100 200 400 600 800

1 INCH = 200 FT

APPROVALS

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

UniversalPegasus INTERNATIONAL
A Subsidiary of Huntington Ingalls Industries

FLORIDA SOUTHEAST CONNECTION

FLORIDA SOUTHEAST CONNECTION PROJECT

STA: 1080+00 TO 1130+00 | DISCIPLINE#: 03

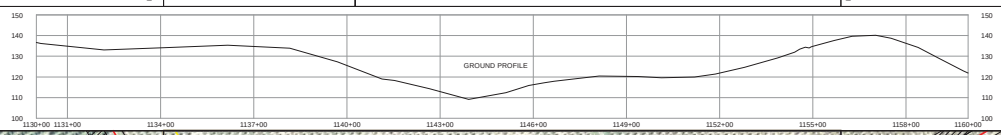
FLORIDA SOUTHEAST CONNECTION ALIGNMENT SHEET POLK COUNTY, FLORIDA

SCALE: 1" = 200' | 21040-510-ALS-00024 | REV. 1

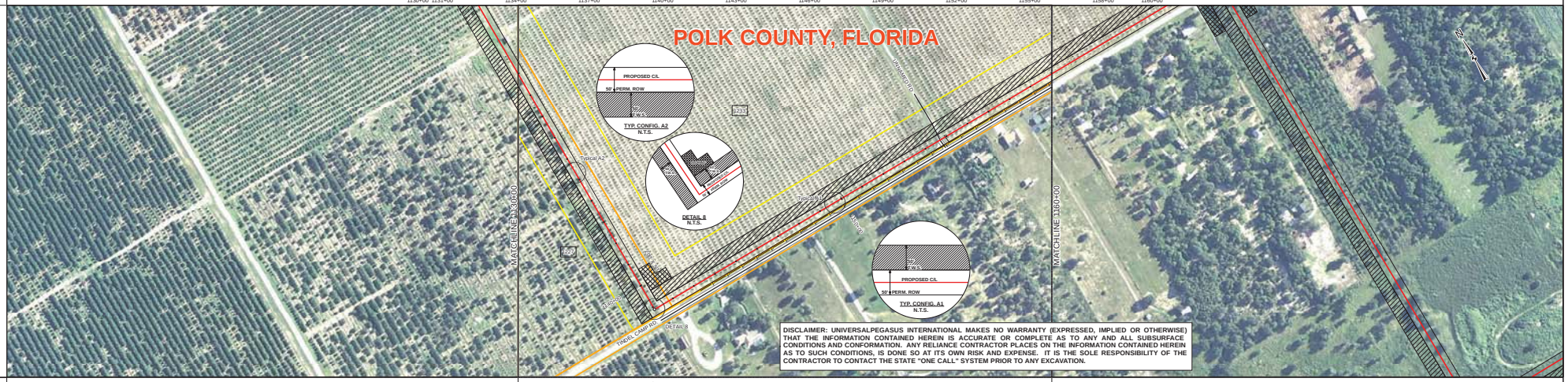
SHEET 24

TRACT	MATCHLINE 1130+00	1227 TUAN NGUYEN AND DAI THI TRANG 1181 FT 1130+00 TO 1141+81	1233 WHEELER FARMS, INC. 1819 FT 1141+81 TO 1160+00	MATCHLINE 1160+00

GROUND PROFILE
HORIZ: 1" = 200'
VERT: 1" = 30'



SCALE: 1" = 200'



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SURVEY DATA

STATIONING	MATCHLINE 1130+00		MATCHLINE 1160+00
		1141+13 ft 90°25'42" LT 1143+16 GUY ANCHOR RT 20' 1146+36 GUY ANCHOR RT 15' 1148+12 GUY ANCHOR LT 12' 1154+57 ROAD EDGE 1154+76 ROAD EDGE 1154+93 POWER POLE LT 9' 1154+94 GUY ANCHOR RT 9' 1154+94 POWER LINE	

ENGINEERING DATA

MATERIAL	MATCHLINE 1130+00		MATCHLINE 1160+00
	1131+98	S 2439' 1141+13 90° 1141+13	A 60' S 501' 1154+99 1154+34 1154+34 1154+94 1155+04

REFERENCE DRAWING			
CLASS LOCATION		Class II	
MINIMUM DEPTH OF COVER		3' / 4' / 3'	
AC MITIGATION / CATHODIC PROTECTION			

ENVIRONMENTAL DATA

WATERBODY/WETLAND CROSSINGS			
WATERBODY/WETLAND LENGTH			
STATIONS			1154+39 1154+99
PERMANENT EROSION CONTROL	EROSION CONTROL CODE	THIS BAND NOT UTILIZED	
	SLOPE BREAKER CODE	THIS BAND NOT UTILIZED	
	TOPSOIL SALVAGE	THIS BAND NOT UTILIZED	
THREATENED AND ENDANGERED SPECIES			
SPECIAL CONDITIONS	TIMING CONSTRAINT	THIS BAND NOT UTILIZED	
	CONSTRAINT 2	THIS BAND NOT UTILIZED	
	CONSTRAINT 3	THIS BAND NOT UTILIZED	
	CONSTRAINT 4	THIS BAND NOT UTILIZED	

BILL OF MATERIALS

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
4	60	FT			36" O.D. x 0.750" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE & 24-30 MILS ARO
5	2940	FT			36" O.D. x 0.625" W.T., API 5L, X70, PSL2, DSAW, 14-16 MILS FBE

MISCELLANEOUS MATERIALS

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
0	EA			SET ON WEIGHTS
2	EA			PIPELINE MARKERS
2	EA			WARNING SIGNS
1	EA			CP TEST STATION TYPE 1
0	EA			CP TEST STATION TYPE 2
0	EA			AERIAL MARKERS
0	EA			ANODE BED DEEP WELL

FITTINGS SUMMARY

ITEM NO.	QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION
	1	EA			90° 3R HORIZONTAL FITTING

CONTINUOUS CONCRETE COATING

QTY	UOM	REQ'N NUMBER	MATERIAL NUMBER	DESCRIPTION

PIPE ASSEMBLIES

QTY	UOM	DESCRIPTION

PIPE COATING DATA

PIPE COATING: 14 MIL MINIMUM FBE AND 24 MIL MINIMUM ARO
GIRTH WELD COATING: 2 PART EPOXY
INTERNAL COATING (YES/NO): NO

TYPICAL DRAWINGS

DWG/FIELD BOOK NO.	TITLE
21040-510-TYP-20001	CATHODIC PROTECTION STD. SINGLE POINT TEST STATION, TYPE 1
21040-510-TYP-20002	CATHODIC PROTECTION STD. FOREIGN PIPELINE CROSSING TEST STATION, TYPE 2
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21040-510-TYP-20116	AERIAL MARKER DETAIL
21040-510-TYP-20117	TYPICAL PIPELINE MARKER ASSEMBLY
21040-510-TYP-20118	PIPELINE MARKER "WARNING" DECAL

GENERAL INFORMATION

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6. MAP PROJECTION: NAD 1983 HARN STATE PLANE FLORIDA EAST FIPS 0901 FEET. VERTICAL DATUM: NAVD 88.

SPECIAL NOTES

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2. SEE ARK DRAWING PACKAGE FOR ANODE BED DEEP WELL.

LEGEND

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

REVISIONS

NO.	DESCRIPTION	DATE	REV BY	CHK BY	APP 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

	APPROVAL	COMPANY
ENVIRONMENTAL		
LAND		

0 100 200 400 600 800
1 INCH = 200 FT

APPROVALS

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

UniversalPegasus INTERNATIONAL
A Subsidiary of Huntington Ingalls Industries

FLORIDA SOUTHEAST CONNECTION

FLORIDA SOUTHEAST CONNECTION PROJECT

STA: 1130+00 TO 1160+00 | DISCIPLINE#: 03

FLORIDA SOUTHEAST CONNECTION
ALIGNMENT SHEET
POLK COUNTY, FLORIDA

SCALE: 1" = 200' | 21040-510-ALS-00025 | REV. 1