BOARD OF COUNTY COMMISSIONERS JOHN E. MANNING DISTRICT 1 DISTRICT 2 CECIL L. PENDEERGRASS RAYMOND SANDELLI DISTRICT 3 BRIAN HAMMAN DISTRICT 4 FRANK MANN DISTRICT 5

COUNTY MANAGER ROGER DESJARLAIS

ASSISTANT COUNTY MANAGER DAVE HARNER

DIVISION OF NATURAL RESOURCES ROLAND OTTOLINI. PE DIRECTOR

ANURA KARUNA-MUNI, PE OPERATIONS MANAGER

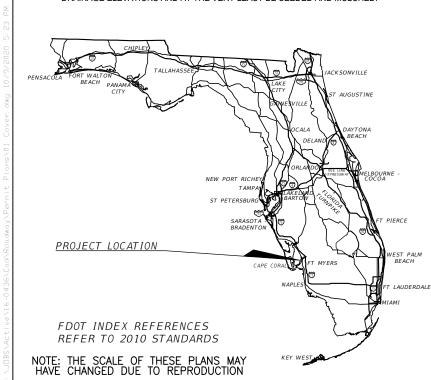
DAVID WARTHEN, EI PROJECT MANAGER

UTILITY / AGENCY OWNERS:

COMPANY	CONTACT	<i>TELEPHONE NUMBER</i>
CITY OF CAPE CORAL	WILLIAM SPERRY	239.573.3039
CENTURY LINK	WILLIS GILSON	239.336.2035
COMCAST	MARK COOK	239.432.1805 / 415.4742
LCEC	TOM BAILEY	239.656.2414
LCDOT TRAFFIC	MIKE PADGETT	239.533.9300
LCDOT SIGNALS	JAMES FENCIL	239.533.9500 / 707.4870
TECO	MARILYN ALOI	239.690.5517 / 896.0812

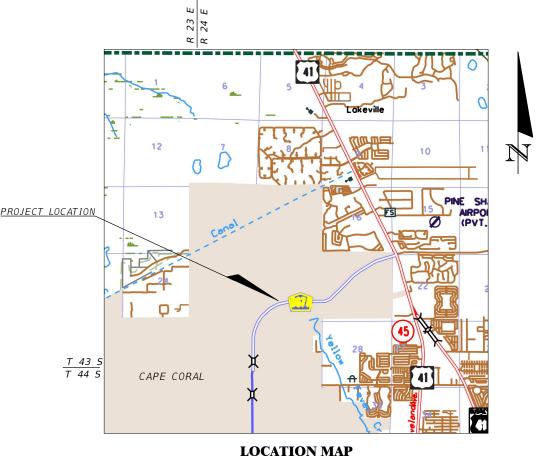
LIMITED REVIEW NOTES:

- 1. THE EXCESS FILL MATERIAL WILL BE TRUCKED ALONG EXISTING ROADS. SUCH AS DEL PRADO BOULEVARD TO A CITY PREPARED SITE. IN THE EVENT PREVIOUSLY DISCUSSED CITY PREPARED SITES IN THE YELLOW FEVER CREEK PRESERVE ARE NOT AVAILABLE, AN ALTERNATE FILL STORAGE SITE SUCH AS THE CITY SITE LOCATED ON NW $27^{\mbox{TH}}$ STREET WILL BE USED.
- 2. A COPY OF THE GOPHER TORTOISE TAKE PERMIT SHALL BE PROVIDED PRIOR TO ANY LAND CLEARING.
- 3. A CULTURAL RESOURCES SURVEY BY A STATE CERTIFIED ARCHEOLOGIST SHALL BE REQUIRED PRIOR TO ANY LAND CLEARING.
- 4. IN REGARD TO THE PUMP STATION: THE CONTRACTOR SHALL BE REQUIRED TO REGRADE AND SOD THE ENTIRE SWALE ALONG THE PROPERTY FRONTAGE TO MAINTAIN PROPER DRAINAGE. STAGING AREAS AND ANY DISTURBED AREAS OF ADJACENT PROPERTY ARE REQUIRED TO BE RESTORED TO PRE-EXISTING DRAINAGE ELEVATIONS AND AT THE VERY LEAST BE SEEDED AND MULCHED.



CONSTRUCTION PLANS OF YELLOW FEVER CREEK HYDROLOGIC RESTORATION / GATOR SLOUGH TRANSFER FACILITY IN COOPERATION WITH THE CITY OF CAPE CORAL

SECTION 20, TOWNSHIP 43S, RANGE 24E CITY OF CAPE CORAL LEE COUNTY, FLORIDA



NOT TO SCALE

PREPARED FOR: LEE COUNTY DIVISION OF NATURAL RESOURCES 1500 MONROE STREET

FORT MYERS, FLORIDA 33901

PREPARED BY: AIM ENGINEERING & SURVEYING, INC.



2161 FOWLER STREET FORT MYERS, FLORIDA 33901 PHONE (239) 332-4569 A I M CERTIFICATE OF AUTHORIZATION NO. 3114

SITE DATA:

PROJECT DESCRIPTION / PURPOSE: THIS IS A LEE COUNTY UTILITY NON-POTABLE WATER TRANSFER PROJECT FOR ENVIRONMENTAL HYDROLOGIC RESTORATION PER INTER-LOCAL AGREEMENT BETWEEN THE CITY OF CAPE CORAL AND LEE COUNTY.

AREA: 15.38 ACRES PARCEL/TAX ID NO: 10136602 STRAP NOs. 20-43-24-C3-00002.0000 & C3-05675.0570 AND 29-43-24-C1-00001.0010 PARK/PRESERVE & R-1B WITH MINOR UTILITY FACILITY 70NING[.] ADDRESS.

3306 NE 20th PLACE, CAPE CORAL, FL 33909 AND 2805 DELPRADO BLVD.

FOR THIS LIMITED REVIEW PROJECT: NO BUILDINGS, NO COMMERICIAL, NO RESIDENTIAL AND NO INSTITUTIONAL USES, NO WATER MANAGEMENT REQUIREMENTS, NO WATER AND SEWER USE, NO TRAFFIC GENERATION, NO REQUIRED PARKING SPACES. NO TREE PRESERVATION DUE TO FILL & EXCAVATION AND NO LANDSCAPING OTHER THAN PLANTS ALONG UTILITY FENCE.

SHEET INDEX

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DESCRIPTION

COVER MASTER PLAN LAKE / RESERVOIR PLAN PUMP STATION PLAN PLAN / PROFILE 10+00 TO 15+00 PLAN / PROFILE 98+00 TO 102+00 INTAKE PIPE AT PUMP STATION LAKE / RESERVOIR INLET STRUCTURE LAKE / RESERVOIR OUTLET STRUCTURE TYPICAL SECTION DETAILS PUMP STATION DETAILS ELECTRIC WIRING DETAILS GENERAL NOTES STORMWATER POLLUTION PREVENTION PLAN STORMWATER POLLUTION PREVENTION NOTES UTILITY DETAILS



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

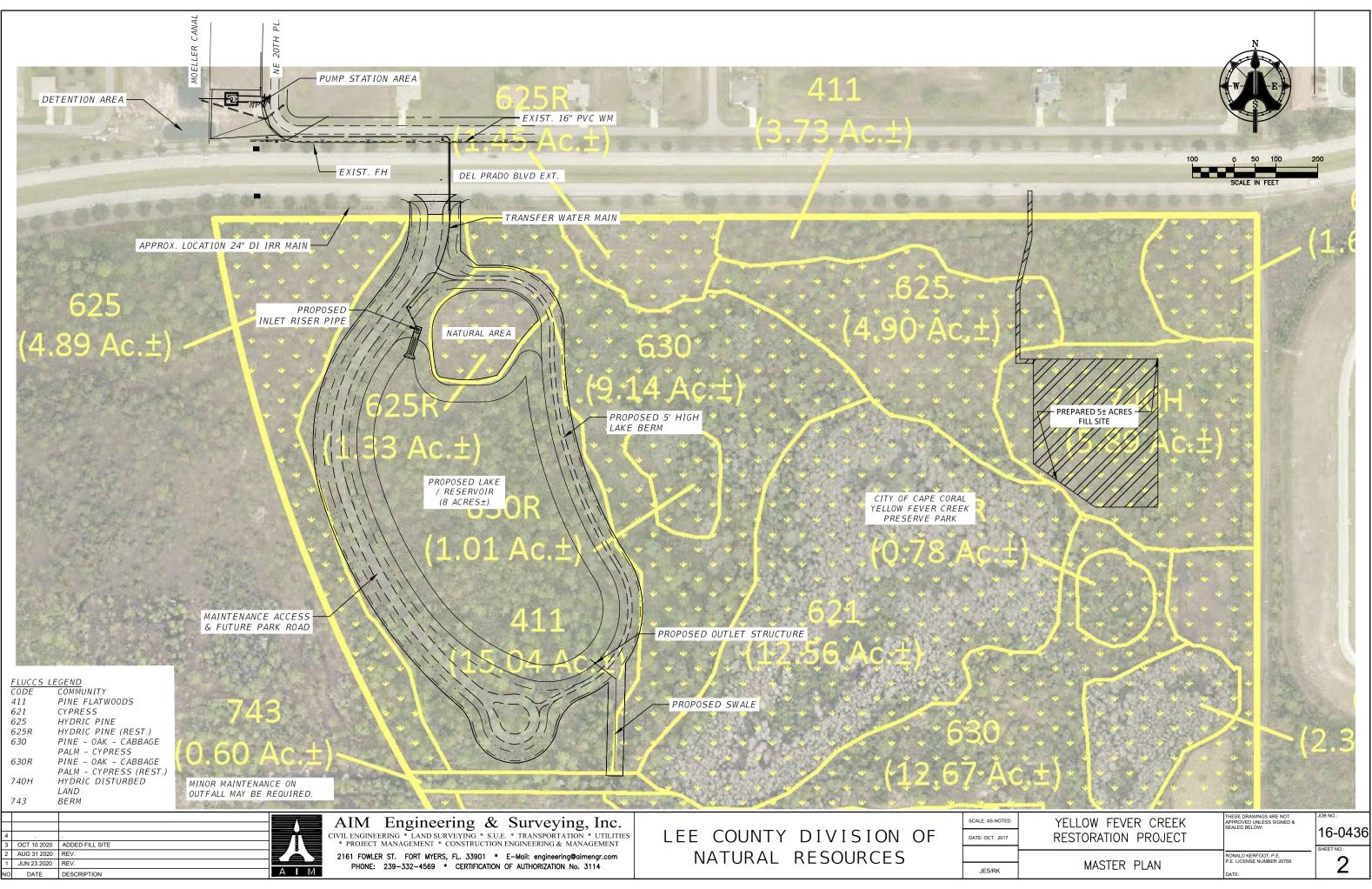
ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

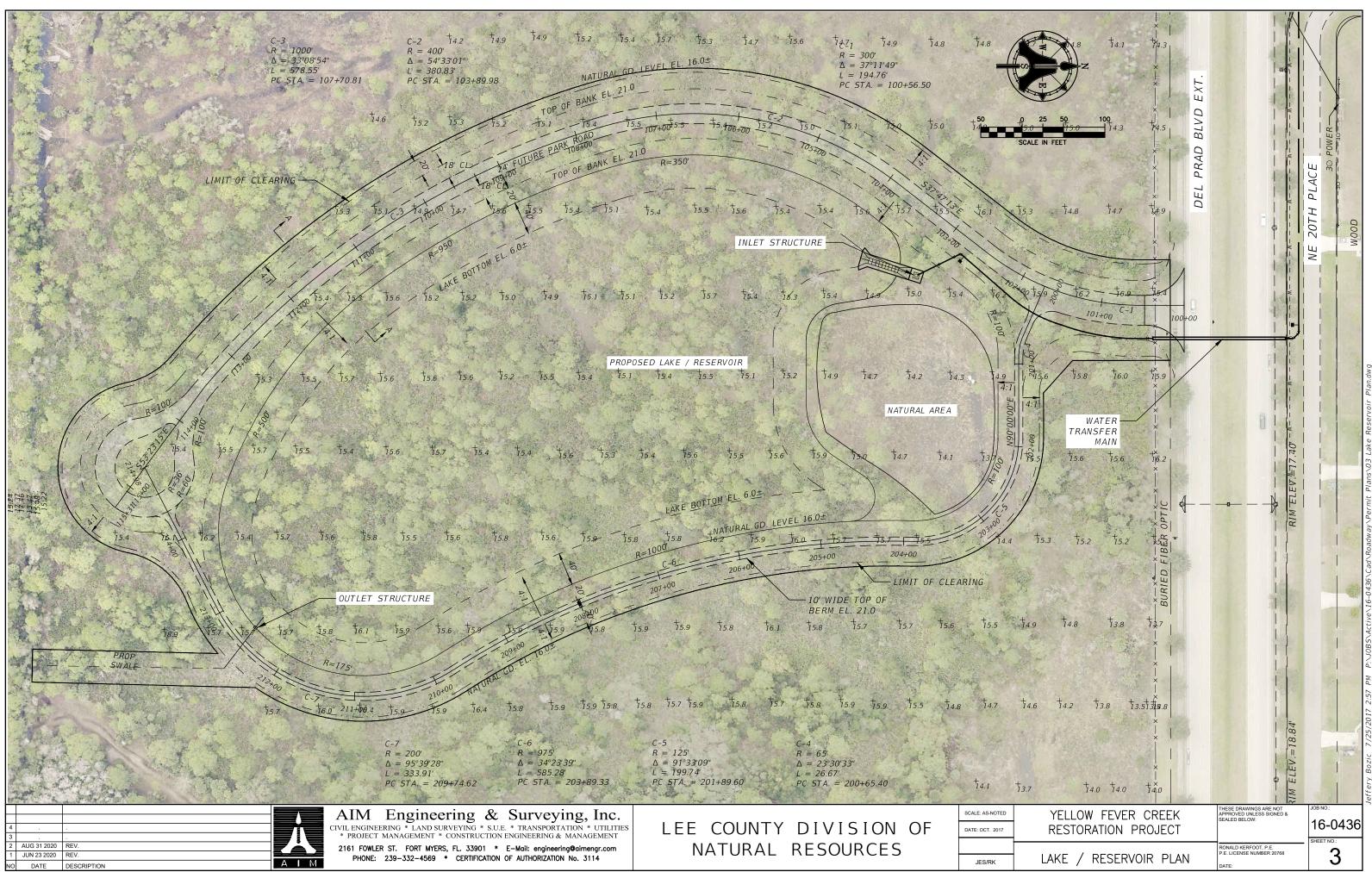
AIM ENGINEERING & SURVEYING, INC. 2161 FOWLER ST., STE, 100 FORT MYERS, FL. 33901 CERTIFICATE OF AUTHORIZATION NO.: 3114 RONALD KERFOOT, P.E. NO. 20768

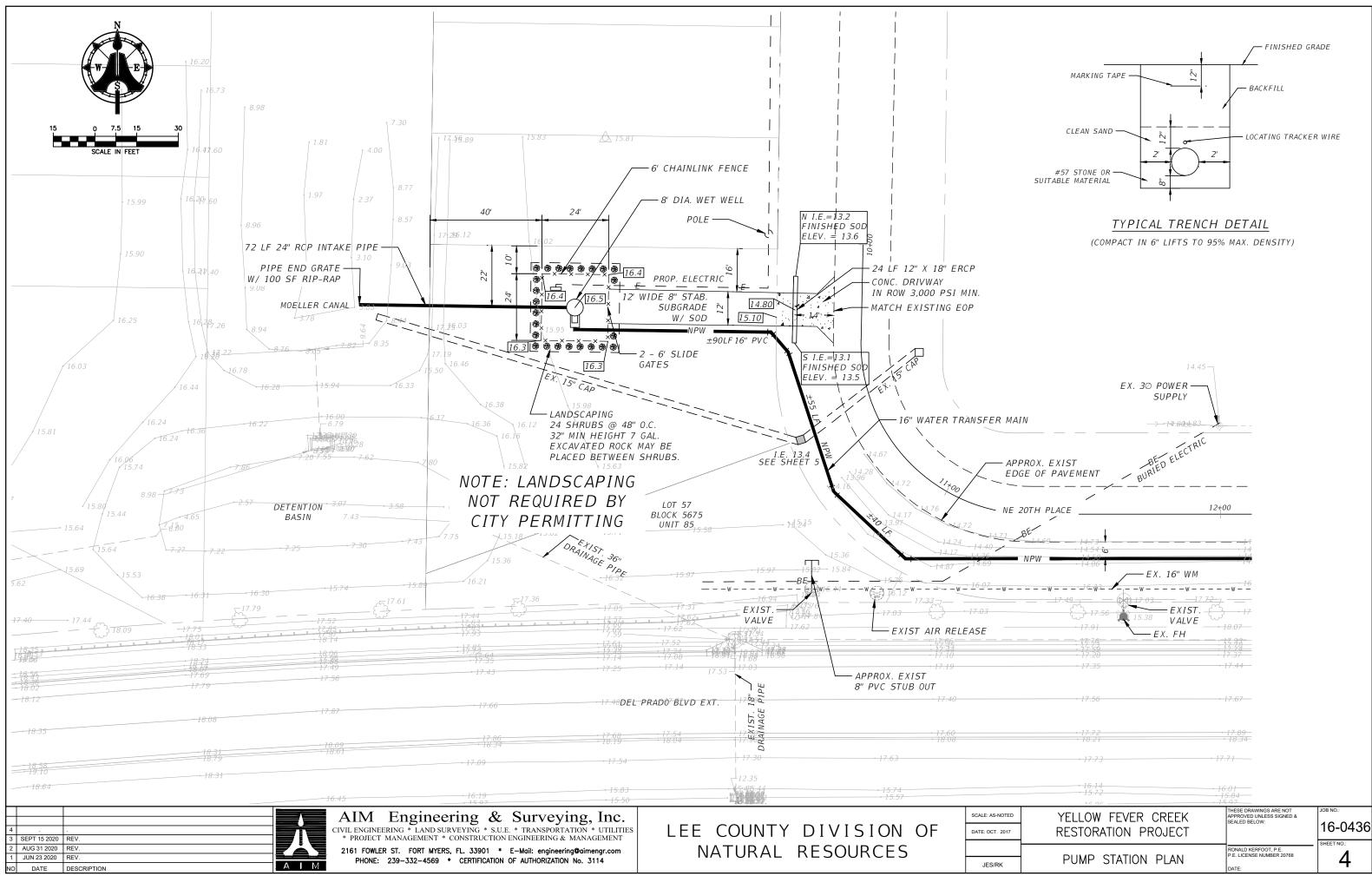
AIM PROJ. 16-0436

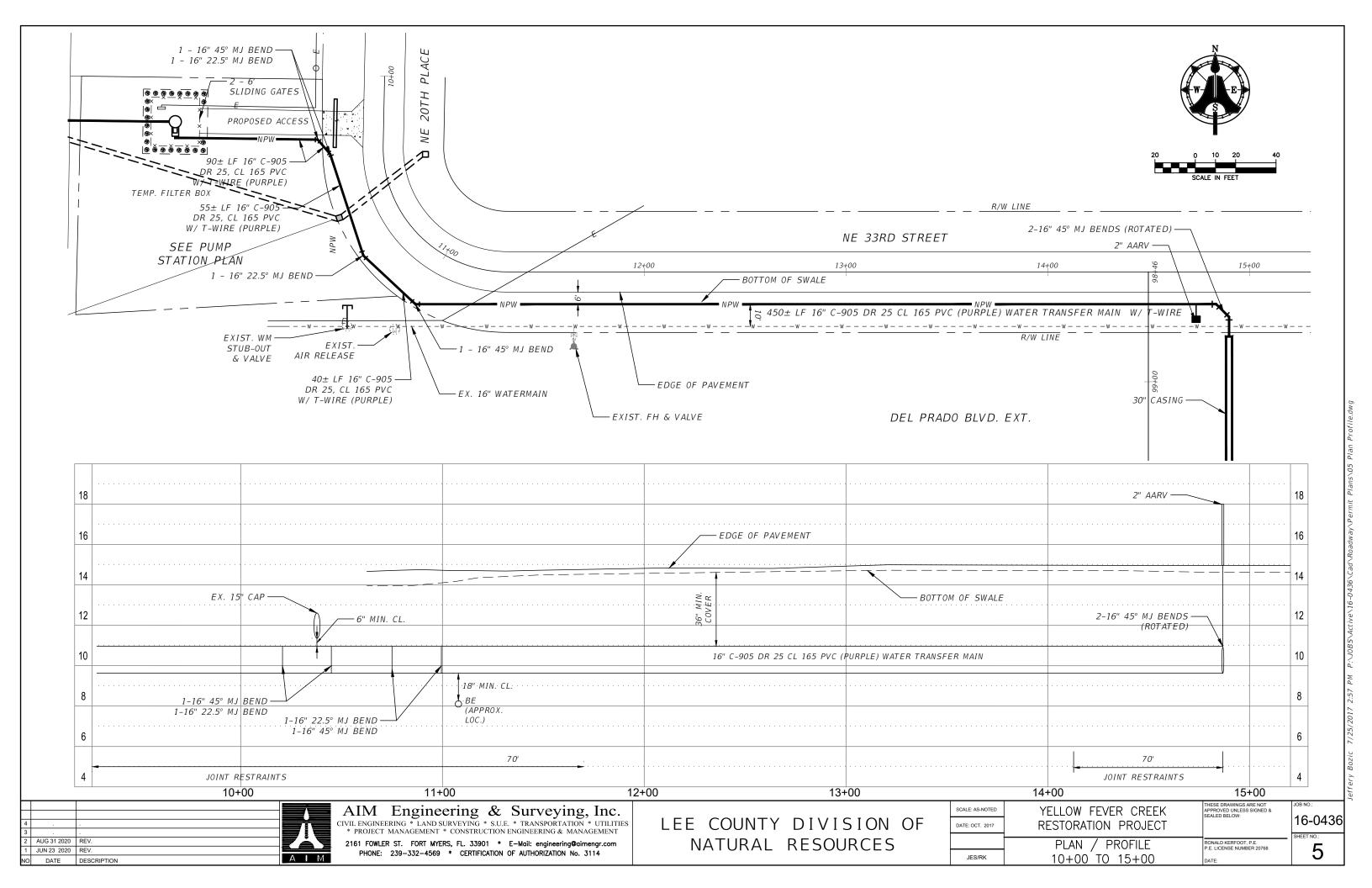
SHEET 01 OCTOBER, 2020

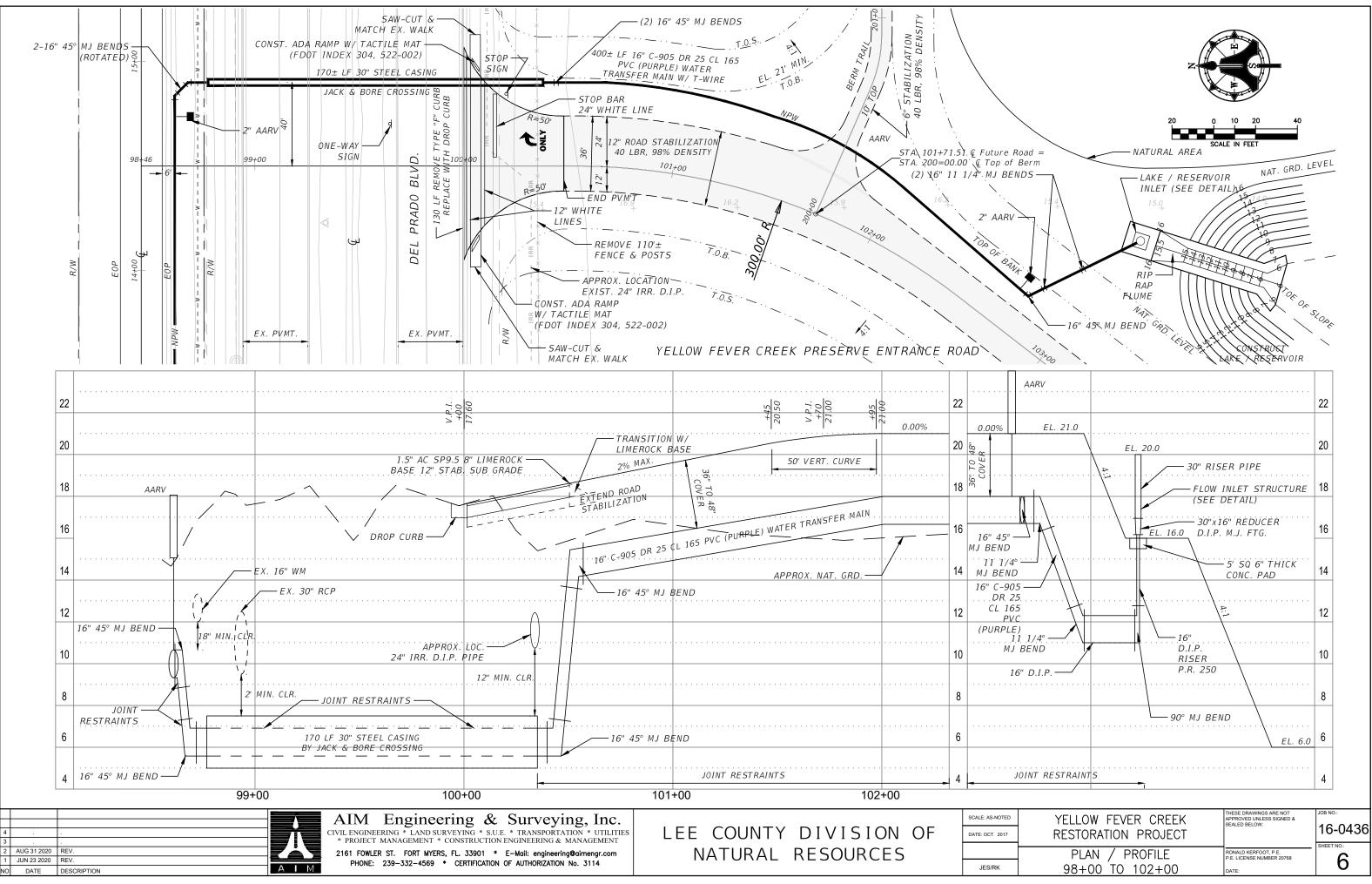


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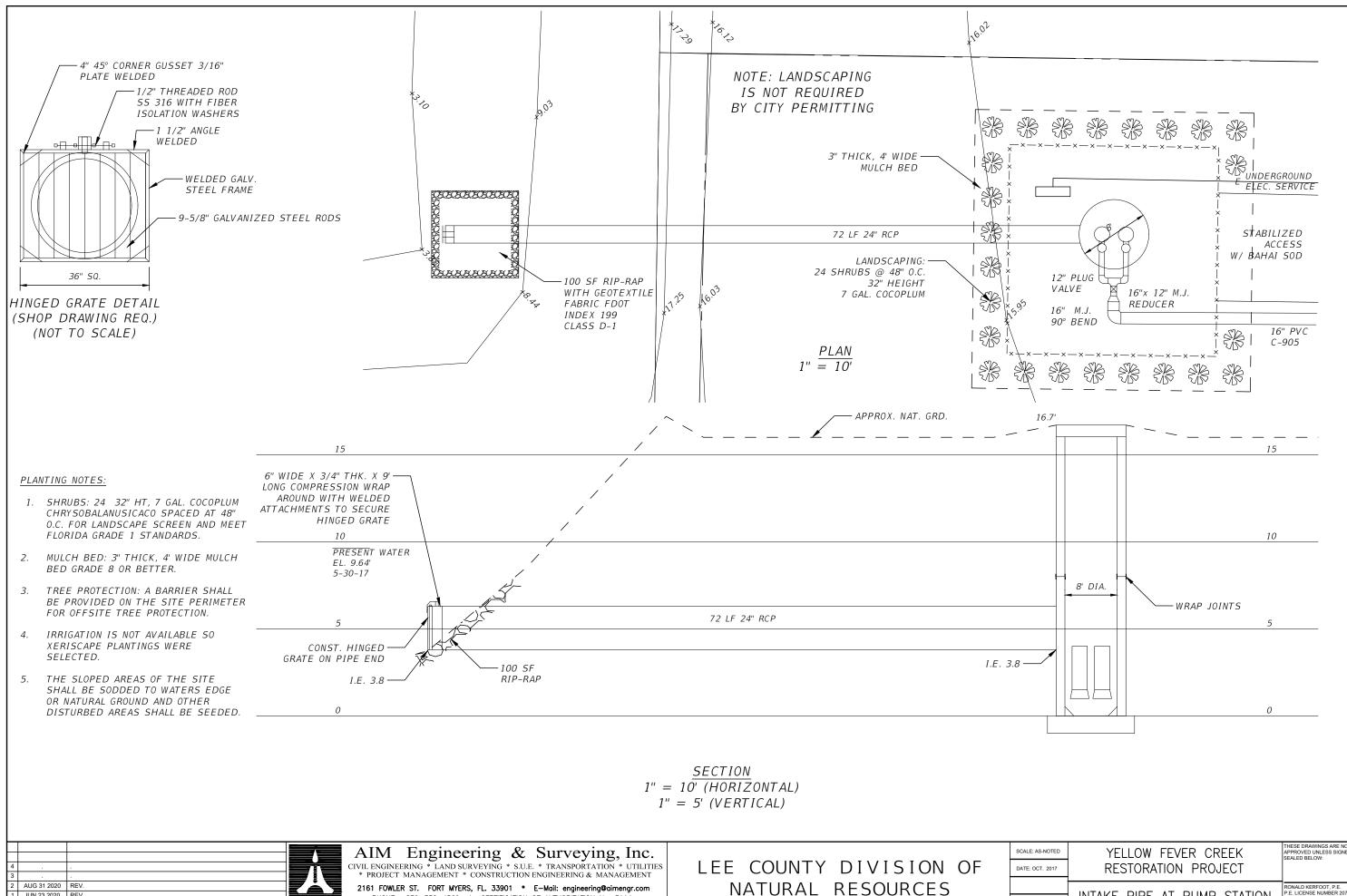








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2161 FOWLER ST. FORT MYERS, FL. 33901 * E-Mail: engineering@aimengr.com PHONE: 239-332-4569 * CERTIFICATION OF AUTHORIZATION No. 3114

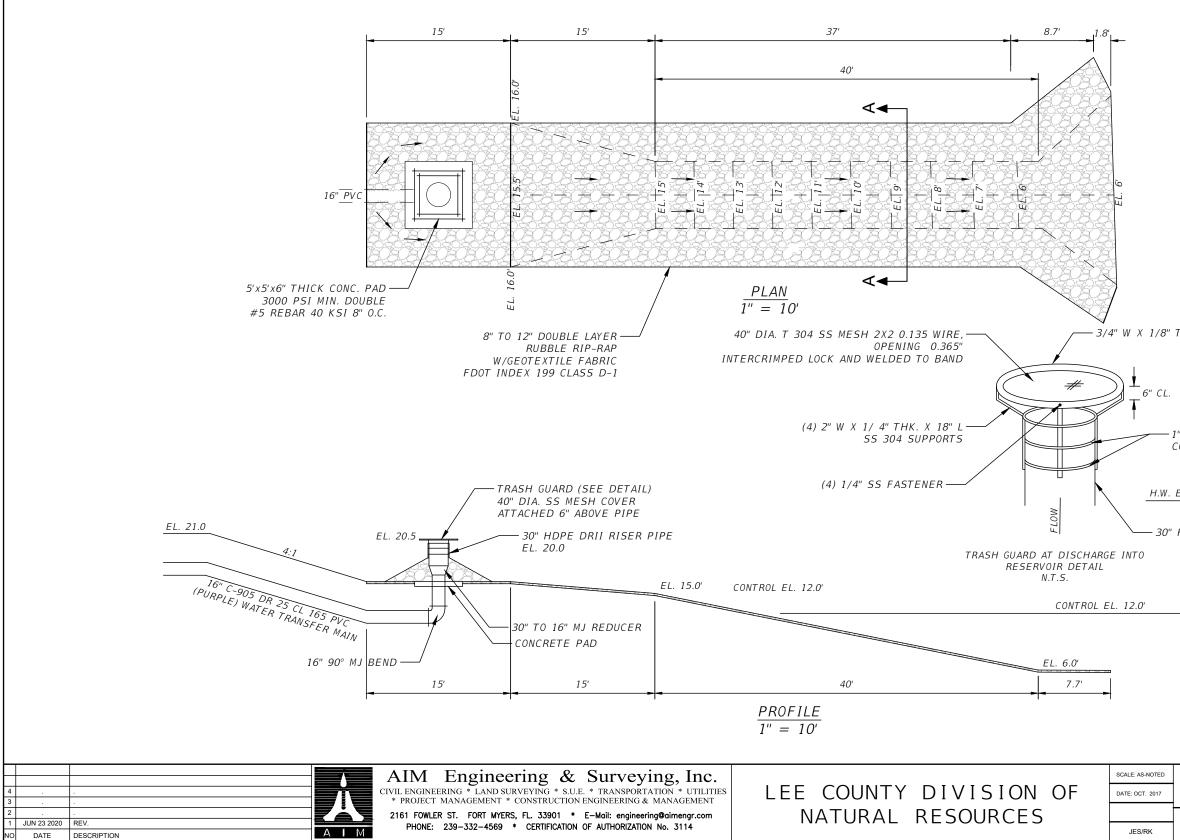
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JES/RK

AUG 31 2020 REV. JUN 23 2020 REV. DATE DESCRIPTION

	THESE DRAWINGS ARE NOT APPROVED UNLESS SIGNED & SEALED BELOW:	JOB NO.: 16-0436
INTAKE PIPE AT PUMP STATION	RONALD KERFOOT, P.E. P.E. LICENSE NUMBER 20768 DATE:	SHEET NO.: 7





YELLOW FEVER CREEK	THESE DRAWINGS ARE NOT APPROVED UNLESS SIGNED & SEALED BELOW:	^{јов №.:} 16-0436
	RONALD KERFOOT, P.E. P.E. LICENSE NUMBER 20768 DATE:	SHEET NO.:

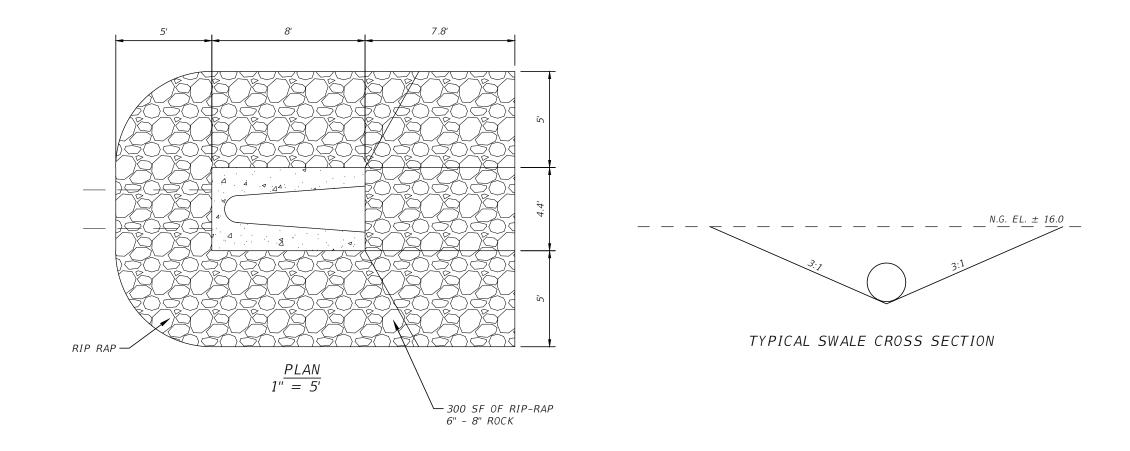
-30" HDPE PIPE

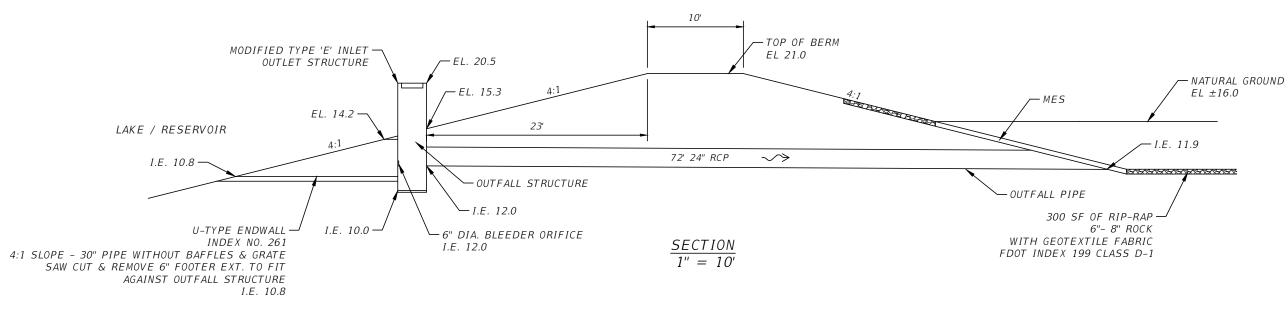
H.W. EL. 20.0

1" W X 1/16" THK. SS 304 COMPRESSION BANDS

3/4" W X 1/8" THK. 55 304 BAND

CHANNEL SECTION A-A

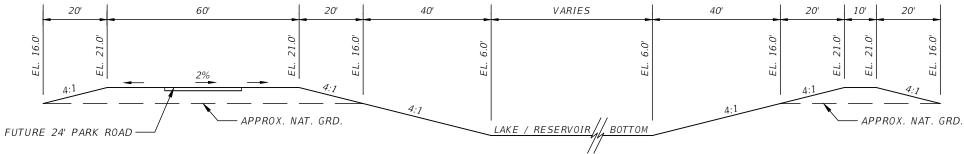




\square			AIM Engineering & Surveying, Inc.	SCALE: AS-NOTED	
4			CIVIL ENGINEERING * LAND SURVEYING * S.U.E. * TRANSPORTATION * UTILITIES * PROJECT MANAGEMENT * CONSTRUCTION ENGINEERING & MANAGEMENT LEE COUNTY DIVISION OF	DATE: OCT. 2018	
2		· ·	2161 FOWLER ST. FORT MYERS, FL. 33901 * E-Mail: engineering@aimengr.com		┢
1 NO	JUN 23 2020 DATE	REV. DESCRIPTION	A I M PHONE: 239-332-4569 * CERTIFICATION OF AUTHORIZATION No. 3114	JES/RK	

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YELLOW FEVER CREEK RESTORATION PROJECT	THESE DRAWINGS ARE NOT APPROVED UNLESS SIGNED & SEALED BELOW:	JOB NO.: 16-0436	
OUTLET STRUCTURE	RONALD KERFOOT, P.E. P.E. LICENSE NUMBER 20768 DATE:	9	

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TYPICAL LAKE / RESERVOIR SECTION

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AIM Engineering & Surveying, Inc. CIVIL ENGINEERING * LAND SURVEYING * S.U.E. * TRANSPORTATION * UTILITIES * PROJECT MANAGEMENT * CONSTRUCTION ENGINEERING & MANAGEMENT

2161 FOWLER ST. FORT MYERS, FL. 33901 * E-Mail: engineering@aimengr.com PHONE: 239-332-4569 * CERTIFICATION OF AUTHORIZATION No. 3114

LEE COUNTY DIVISION OF NATURAL RESOURCES

	OFOTION
IYPICAL	SECTION

YELLOW FEVER CREEK

RESTORATION PROJECT

SCALE: AS-NOTED

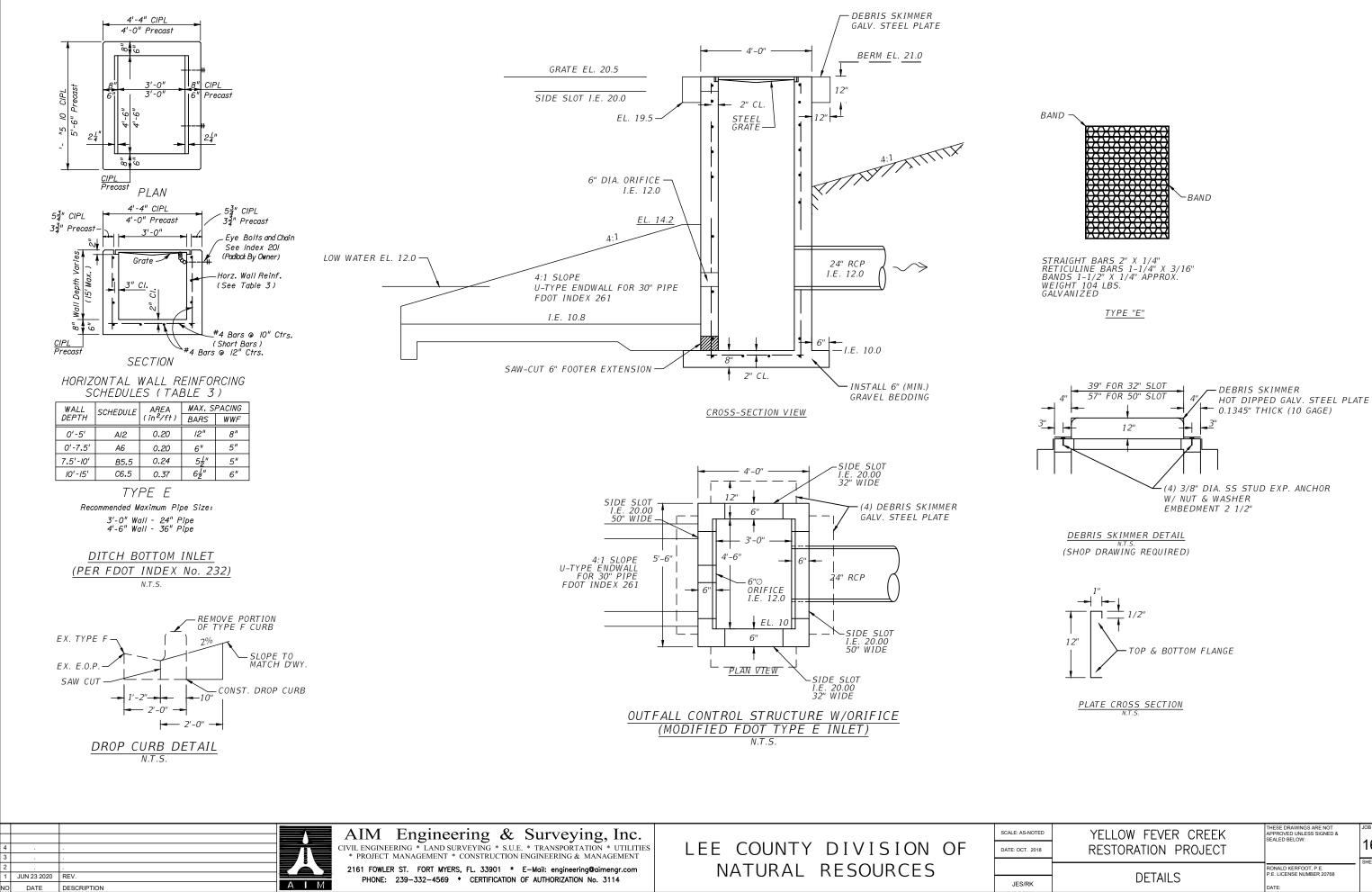
DATE: OCT. 2017

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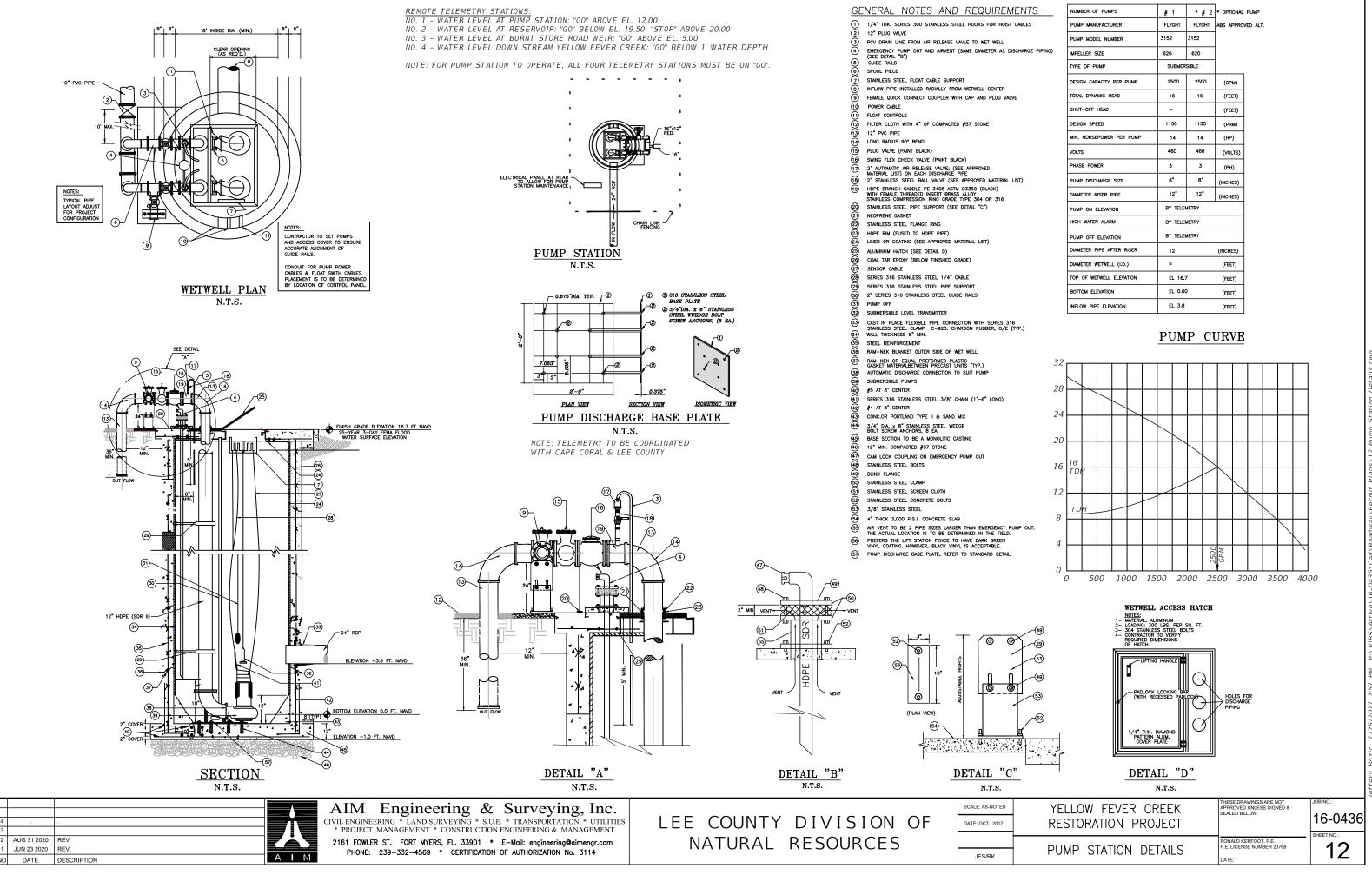
RONALD KERFOOT, P.E. P.E. LICENSE NUMBER 20768

THESE DRAWINGS ARE NOT APPROVED UNLESS SIGNED & SEALED BELOW:



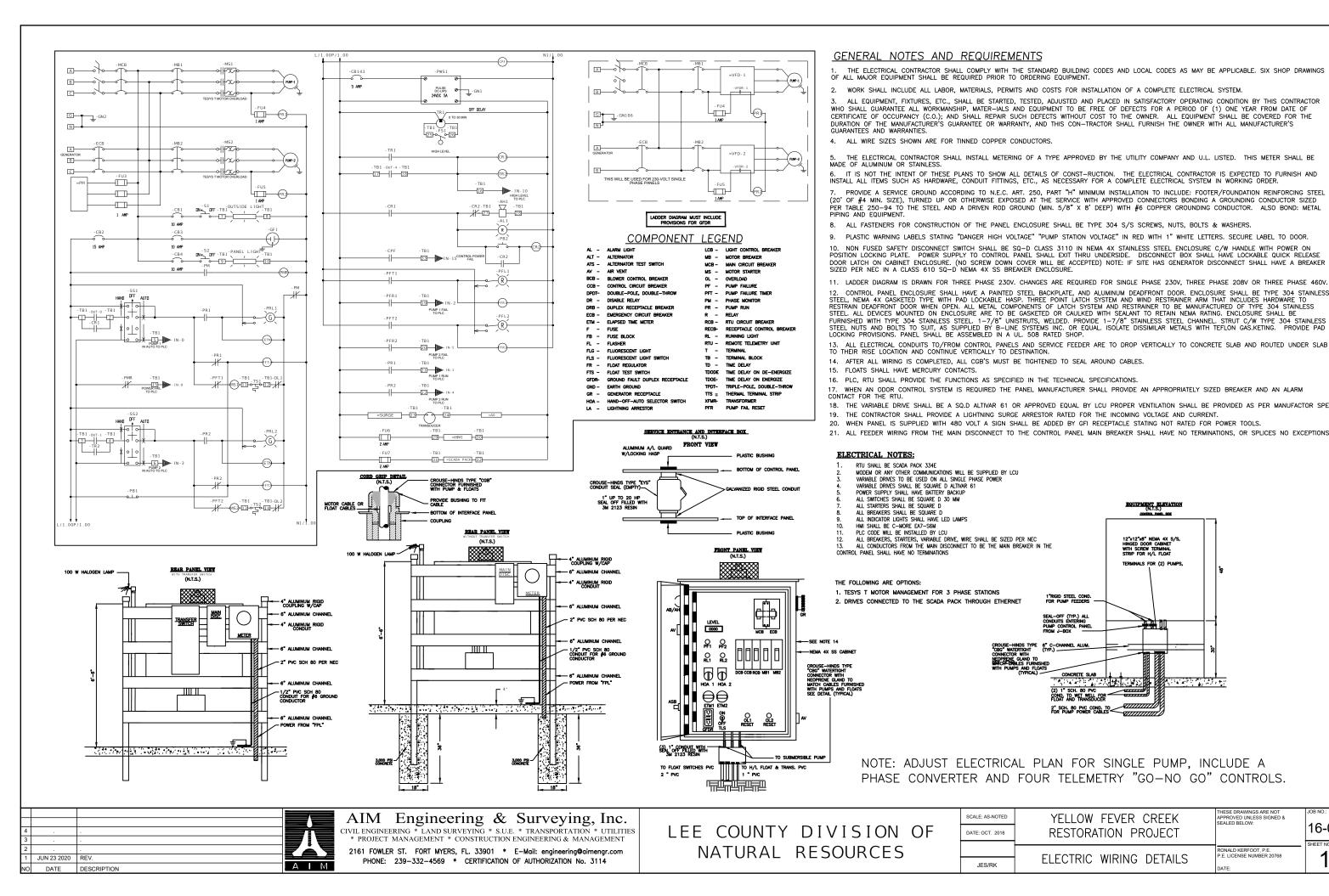
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YELLOW FEVER CREEK	THESE DRAWINGS ARE NOT APPROVED UNLESS SIGNED &	JOB NO.:	
	SEALED BELOW:	16-0436	
RESTORATION PROJECT			
DETAILS	RONALD KERFOOT, P.E. P.E. LICENSE NUMBER 20768	SHEET NO.: 11	
DEMIES	DATE:		



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PUMP MANUFACTURER	FLYGHT	FLYGHT	ABS APPROVE
PUMP MODEL NUMBER	3152	3152	
IMPELLER SIZE	620	620	1
TYPE OF PUMP	SUBMER	SIBLE	
DESIGN CAPACITY PER PUMP	2500	2500	(GPM)
TOTAL DYNAMIC HEAD	16	16	(FEET)
SHUT-OFF HEAD	-		(FEET)
DESIGN SPEED	1150	1150	(PRM)
MIN. HORSEPOWER PER PUMP	14	14	(HP)
VOLTS	460	460	(VOLTS)
PHASE POWER	3	3	(PH)
PUMP DISCHARGE SIZE	8"	8"	(INCHES)
DIAMETER RISER PIPE	12"	12"	(INCHES)
PUMP ON ELEVATION	BY TELE	METRY	
HIGH WATER ALARM	BY TELE	METRY	
PUMP OFF ELEVATION	BY TELE	METRY	
DIAMETER PIPE AFTER RISER	12		(INCHES)
DIAMETER WETWELL (I.D.)	6		(FEET)
TOP OF WETWELL ELEVATION	EL 16.	7	(FEET)
BOTTOM ELEVATION	EL 0.0	0	(FEET)
INFLOW PIPE ELEVATION	EL 3.8		(FEET)

Active\16-0436\Cad



1. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE STANDARD BUILDING CODES AND LOCAL CODES AS MAY BE APPLICABLE. SIX SHOP DRAWINGS OF ALL MAJOR EQUIPMENT SHALL BE REQUIRED PRIOR TO ORDERING EQUIPMENT.

2. WORK SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS AND COSTS FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM.

ALL EQUIPMENT, FIXTURES, ETC., SHALL BE STARTED, TESTED, ADJUSTED AND PLACED IN SATISFACTORY OPERATING CONDITION BY THIS CONTRACTOR WHO SHALL GUARANTEE ALL WORKMANSHIP, MATER-IALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF (1) ONE YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY (C.O.); AND SHALL REPAIR SUCH DEFECTS WITHOUT COST TO THE OWNER. ALL EQUIPMENT SHALL BE COVERED FOR THE DURATION OF THE MANUFACTURER'S GUARANTEE OR WARRANTY, AND THIS CON-TRACTOR SHALL FURNISH THE OWNER WITH ALL MANUFACTURER'S

6. IT IS NOT THE INTENT OF THESE PLANS TO SHOW ALL DETAILS OF CONST-RUCTION. THE ELECTRICAL CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS SUCH AS HARDWARE, CONDUIT FITTINGS, ETC., AS NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM IN WORKING ORDER.

7. PROVIDE A SERVICE GROUND ACCORDING TO N.E.C. ART. 250, PART "H" MINIMUM INSTALLATION TO INCLUDE: FOOTER/FOUNDATION REINFORCING STEEL (20' OF #4 MIN. SIZE), TURNED UP OR OTHERWISE EXPOSED AT THE SERVICE WITH APPROVED CONNECTORS BONDING A GROUNDING CONDUCTOR SIZED PER TABLE 250-94 TO THE STEEL AND A DRIVEN ROD GROUND (MIN. 5/8" X 8' DEEP) WITH #6 COPPER GROUNDING CONDUCTOR. ALSO BOND: METAL

8. ALL FASTENERS FOR CONSTRUCTION OF THE PANEL ENCLOSURE SHALL BE TYPE 304 S/S SCREWS, NUTS, BOLTS & WASHERS

9. PLASTIC WARNING LABELS STATING "DANGER HIGH VOLTAGE" "PUMP STATION VOLTAGE" IN RED WITH 1" WHITE LETTERS. SECURE LABEL TO DOOR. 10. NON FUSED SAFETY DISCONNECT SWITCH SHALL BE SQ-D CLASS 3110 IN NEMA 4X STAINLESS STEEL ENCLOSURE C/W HANDLE WITH POWER ON POSITION LOCKING PLATE. POWER SUPPLY TO CONTROL PANEL SHALL EXIT THRU UNDERSIDE. DISCONNECT BOX SHALL HAVE LOCKABLE QUICK RELEASE DOOR LATCH ON CABINET ENCLOSURE. (NO SCREW DOWN COVER WILL BE ACCEPTED) NOTE: IF SITE HAS GENERATOR DISCONNECT SHALL HAVE A BREAKER

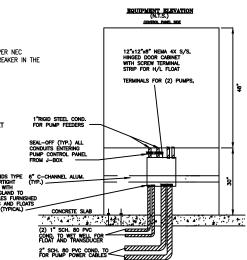
11. LADDER DIAGRAM IS DRAWN FOR THREE PHASE 230V. CHANGES ARE REQUIRED FOR SINGLE PHASE 230V, THREE PHASE 208V OR THREE PHASE 460V. 12. CONTROL PANEL ENCLOSURE SHALL HAVE A PAINTED STEEL BACKPLATE, AND ALUMINUM DEADFRONT DOOR. ENCLOSURE SHALL BE TYPE 304 STAINLESS STEEL, NEMA 4X GASKETED TYPE WITH PAD LOCKABLE HASP. THREE POINT LATCH SYSTEM AND WIND RESTRAINER ARM THAT INCLUDES HARDWARE TO RESTRAIN DEADFRONT DOOR WHEN OPEN. ALL METAL COMPONENTS OF LATCH SYSTEM AND RESTRAINER TO BE MANUFACTURED OF TYPE 304 STAINLESS STEEL. ALL DEVICES MOUNTED ON ENCLOSURE ARE TO BE GASKETED OR CAULKED WITH SEALANT TO RETAIN NEMA RATING. ENCLOSURE SHALL BE FURNISHED WITH TYPE 304 STAINLESS STEEL. 1-7/8" UNISTRUTS, WELDED. PROVIDE 1-7/8" STAINLESS STEEL CHANNEL, STRUT C/W TYPE 304 STAINLESS STEEL NUTS AND BOLTS TO SUIT, AS SUPPLIED BY B-LINE SYSTEMS INC. OR EQUAL. ISOLATE DISSIMILAR METALS WITH TEFLON GAS.KETING. PROVIDE PAD LOCKING PROVISIONS. PANEL SHALL BE ASSEMBLED IN A UL. 508 RATED SHOP.

17. WHEN AN ODOR CONTROL SYSTEM IS REQUIRED THE PANEL MANUFACTURER SHALL PROVIDE AN APPROPRIATELY SIZED BREAKER AND AN ALARM

18. THE VARIABLE DRIVE SHALL BE A SQ.D ALTIVAR 61 OR APPROVED EQUAL BY LCU PROPER VENTILATION SHALL BE PROVIDED AS PER MANUFACTOR SPEC.

20. WHEN PANEL IS SUPPLIED WITH 480 VOLT A SIGN SHALL BE ADDED BY GFI RECEPTACLE STATING NOT RATED FOR POWER TOOLS.

21. ALL FEEDER WIRING FROM THE MAIN DISCONNECT TO THE CONTROL PANEL MAIN BREAKER SHALL HAVE NO TERMINATIONS, OR SPLICES NO EXCEPTIONS.



NOTE: ADJUST ELECTRICAL PLAN FOR SINGLE PUMP, INCLUDE A PHASE CONVERTER AND FOUR TELEMETRY "GO-NO GO" CONTROLS.

YELLOW FEVER CREEK RESTORATION PROJECT	APPROVED UNLESS SIGNED &	^{ЈОВ NO.:} 16-0436
ELECTRIC WIRING DETAILS	RONALD KERFOOT, P.E. P.E. LICENSE NUMBER 20768	SHEET NO.: 13

GENERAL NOTES.

- 1. ALL ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) 1988 (N.G.V.D. +1.2)
- COMPENSATION FOR THE WORK AS SHOWN ON THE PLANS SHALL BE AT THE UNIT PRICE INCLUDED IN THE BID SCHEDULE. NO SEPARATE PAYMENT WILL BE MADE FOR TASKS (NOT ALL INCLUSIVE) INCLUDING SUCH ITEMS AS FIELD OFFICE, SANITARY FACILITIES, ROCK EXCAVATION, DEWATERING, MATERIAL DELIVERY AND STORAGE, TEMPORARY POWER, ETC. NECESSARY FOR THE COMPLETE EXECUTION OF THE WORK
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND FOR ANY DAMAGE WHICH MAY OCCUR BY FAILING TO З. PRESERVE THEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED FEDERAL, STATE, COUNTY AND/OR LOCAL CONSTRUCTION 4. PERMITS/APPROVALS PRIOR TO STARTING ANY CONSTRUCTION ACTIVITIES (INCLUDING A DEWATERING PERMIT IF NEEDED)
- THE CONTRACTOR SHALL NOTIFY ALL REQUIRED UTILITY AND GOVERNMENT AGENCIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF 5. CONSTRUCTION (48 HOURS BEFORE DIGGING CALL TOLL FREE 1-800-432-4770 SUNSHINE ONE CALL).
- ALL QUANTITIES SHOWN HEREIN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON THE PLANS AND PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOUND IN THE QUANTITIES.
- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL PROSPECTIVE CONTRACTORS ARE ENCOURAGED, PRIOR TO BIDDING. TO CONDUCT ANY SITE INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT MAY BE ENCOUNTERED, AND UPON WHICH THEIR BIDS SHALL BE BASED
- TRENCH EXCAVATIONS IN EXCESS OF FIVE FEET (5) DEEP SHALL COMPLY WITH ALL APPLICABLE TRENCH SAFETY STANDARDS SET FORTH IN THE STATE OF FLORIDA "TRENCH SAFETY ACT" BILL #PCS/HB 3183 AND SB 2626, ALONG WITH OSHA STANDARDS DEFINED IN 29 CFR 1926.650 PART "P".
- ALL MATERIALS, MEANS AND CONSTRUCTION METHODS WITHIN THE CITY OF CAPE CORAL R.O.W. SHALL CONFORM WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ANY SUPPLEMENTAL SPECIFICATIONS THEREOF, AND CITY OF CAPE CORAL DEVELOPMENT CODE.
- 10. CONTRACTOR SHALL SOD ALL DISTURBED AREAS WITHIN THE R.O.W.
- 11. THE CONTRACTOR SHALL SECURE ANY TEMPORARY CONSTRUCTION EASEMENTS NECESSARY FOR CONSTRUCTION AND WILL BE RESPONSIBLE FOR RESTORATION OF ANY DISTURBED AREAS.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL ELECTRIC COMPANY TO BRING ELECTRIC TO THE PROJECT SITE, IF REQUIRED.
- 13. ALL BACKFILLING SHALL BE IN LIFTS OF NOT MORE THAN 18" LOOSE MATERIAL AND COMPACTED TO 100% OF AASHTO T-90, METHOD "C". CONTRACTOR SHALL PROVIDE DENSITY REPORTS FOR ALL AREAS BACKFILLED (CONTRACTOR SHALL SUPPLY COPIES TO ENGINEER AND SHALL BEAR ALL COSTS ASSOCIATED WITH TESTING AND/OR ANY RETESTING OF ANY AREAS THAT DO NOT MEET THE ABOVE STANDARDS)
- 14. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE DURING ALL PHASES OF THE WORK. TWO (2) COMPLETE SETS OF "AS-BULT" DRAWINGS MUST BE DELIVERED TO THE ENGINEER OF RECORD WITHIN FIFTEEN (15) DAYS OF COMPLETING CONSTRUCTION, ALONG WITH ELECTRONIC FILES IN AUTOCAD. CONTRACTOR SHALL OBTAIN THE SERVICES OF A REGISTERED LAND SURVEYOR TO PERFORM "AS-BUILT" VERIFICATION OF ANY CRITICAL ELEVATIONS ASSOCIATED WITH ANY STRUCTURES AND/OR CULVERTS BUILT AS PART OF THIS PROJECT.
- 15. THE CONTRACTOR SHALL INSTALL TURBIDITY BARRIERS. FINAL TURBIDITY BARRIERS SHALL BE INSTALLED TO PROPERLY CONTAIN PROJECT WORK AREAS.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTAINMENT AND DISPOSAL OF ALL MATERIAL (I.E. SPOIL & VEGETATION) EXCAVATED OR REMOVED WITHIN THE PROJECT BOUNDARIES
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER CONTRACTORS OR SUB-CONTRACTORS PERFORMING WORK ON THIS SITE
- 18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MOVEMENT OF PERSONNEL, EQUIPMENT, SUPPLIES, AND INCIDENTALS TO THE PROJECT SITE AND FOR THE ESTABLISHMENT OF TEMPORARY OFFICES, BUILDINGS, SAFETY EQUIPMENT, FIRST AID SUPPLIES, AND SANITARY FACILITIES
- 19. UNLESS RESTRICTED TO A SPECIFIC TYPE BY THE CONTRACT DOCUMENT OR THE ENGINEER, THE CONTRACTOR MAY PERFORM THE WORK USING EQUIPMENT, TOOLS, MACHINERY, ETC., OF HIS OWN CHOOSING. EQUIPMENT SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND SHALL BE IN GOOD WORKING CONDITION USING ONLY FACTORY APPROVED EXHAUST MUFFLERS ON INTERNAL COMBUSTION ENGINES. ALL EQUIPMENT, TOOLS AND MACHINERY USED SHALL BE MAINTAINED IN GOOD WORKING CONDITION THROUGHOUT THE PERIOD THEY ARE ON THE JOB SITE. ALL STATIONARY EQUIPMENT SHALL BE SCREENED TO REDUCE NOISE IMPACTS.
- 20. CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITTING AND CONSTRUCTION OF TEMPORARY WORK STRUCTURES, INCLUDING ACCESS ROAD, BRIDGES, ELEVATED PLATFORMS, AND RAIL SYSTEM
- 21. THERE WILL BE NO IMPACT TO FLOOD PLAINS OR RIVERINE AREAS ON THIS SITE
- 22. ALL ON SITE MEANS AND CONSTRUCTION METHODS SHALL CONFORM WITH THE LATEST EDITION OF THE LEE COUNTY DIVISION OF NATURAL RESOURCES CODE
- 23. THE CONTRACTOR SHALL NOTIFY ALL REQUIRED UTILITIES AND GOVERNMENT AGENCIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 24. ITEMS NOT COVERED BY THIS DOCUMENT SHALL BE IN ACCORDANCE WITH THE CURRENT LEE COUNTY DIVISION OF NATURAL RESOURCES CODE
- 25. THE ENGINEER WILL NOT BE RESPONSIBLE FOR USE OF SCALED DIMENSIONS OR ASSUMPTIONS BY OTHERS.
- 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER CONTRACTORS OR SUB CONTRACTORS PERFORMING WORK ON THIS SITE
- 27. 48 HOURS BEFORE DIGGING, CALL TOLL FREE 1-800-432-4770 SUNSHINE ONE CALL CENTER (PREVIOUSLY U.N.C.L.E.)

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2	OCT 8 2020	REV. ADDITIONAL NOTES		à	
1	JUN 23 2020	REV.			
NO	DATE	DESCRIPTION	А		Μ

AIM Engineering & Surveying, Inc. CIVIL ENGINEERING * LAND SURVEYING * S.U.E. * TRANSPORTATION * UTILITIES PROJECT MANAGEMENT * CONSTRUCTION ENGINEERING & MANAGEMENT 2161 FOWLER ST. FORT MYERS, FL. 33901 * E-Mail: engineering@aimengr.com

PHONE: 239-332-4569 * CERTIFICATION OF AUTHORIZATION No. 3114

28. ALL QUANTITIES SHOWN HEREON ARE APPROXIMATE

- 29. ENGINEER IS NOT RESPONSIBLE FOR SUBSOIL CONDITIONS
- PROJECT SIGNAGE, WHICH MAY BE INSTALLED ON THIS PROJECT, SHALL BE IN ACCORDANCE WITH THE CODE AND ANY AMENDING .30. ORDINANCES. SIGN DESIGN CRITERIA AND PLANS SHOULD BE PROVIDED AT THE TIME OF SIGN PERMIT APPLICATION.
- 31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL ELECTRIC COMPANY TO BRING ELECTRICITY TO THE PROJECT SITE, IF REQUIRED.
- 32. PRIOR TO BIDDING THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS AND THOSE POTENTIAL CONDITIONS THAT MAY EXIST DURING THE CONSTRUCTION PERIOD.

CONSTRUCTION SPECIFICATIONS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT IN ACCORDANCE WITH LOCAL, COUNTY, AND STATE REQUIREMENTS. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH THE FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES WITH WARNING SIGNS, BARRIERS AND DEVICES. REFER TO FDOT INDEX No. 600.

WATER AND SEWER NOTES:

- ALL WORK IN PUBLIC R/W'S REQUIRES A CITY OF CAPE CORAL R/W PERMIT AND A LEE COUNTY R/W PERMIT. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY R/W PERMITS AND ASSOCTAIED COST.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WITH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY CITY OF CAPE CORAL.
- З. ALL WORK SHALL CONFORM TO THE CITY OF CAPE CORAL UTILITIES STANDARDS AND SPECIFICATIONS
- ALL FRAMES, COVERS, VALVE BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR 4. RELATED CONSTRUCTION.
- CITY OF CAPE CORAL UTILITIES SHALL BE NOTIFIED 72 HOURS PRIOR TO STARTING OF WORK AND PRIOR TO TESTING
- THE CONTRACTOR SHALL UTILIZE RESTRAINED JOINTS FOR THE INSTALLATION OF WATER AND IRRIGATION PIPING
- WHERE WATER, IRRIGATION AND SEWER MAINS CROSS, THE MINIMUM VERTICAL SEPARATION SHALL BE 18 INCHES. WHERE THIS IS NOT POSSIBLE, THE WATER MAIN SHALL BE ENCASED IN A PVC SLEEVE OR THE JOINTS SHALL BE SEPARATED TEN (10) FEET EITHER SIDE OF THE POINT OF CROSSING. THE CONTRACTOR SHALL COMPLY WITH RULE 62-555.345 FAC .: INCLUDING THE COSTS FOR DEFLECTING PIPE, ROLL-DOWNS OR ENCASEMENT IN THE PRICE OF THE PIPE.
- ALL UTILITY PIPING, INCLUDING SERVICES, SHALL BE COLOR CODED AS FOLLOWS: POTABLE WATER BLUE; SEWER GREEN; 8. IRRIGATION/FIRE - LAVENDER
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL AFFECTED UTILITIES IN THE AREA 72 HOURS PRIOR TO BEGINNING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL UTILITY COMPANIES AND THE ENGINEER TO RESOLVE CONFLICTS WITH EXISTING UTILITIES IN A TIMELY MANNER TO AVOID DELAYS IN COMPLETING THE PROJECT.

ADDITIONAL NOTES

- AFTER MEETING CONSTRUCTION NEEDS AND HAULING MATERIAL AS INDICATED IN BID ITEMS 120-1 & 120-6A, ANY EXCESS EXCAVATED 1. MATERIAL IS THE CONTRACTOR'S RESPONSIBILITY.
- 2. CONTRACTOR SHALL COORDINATE WITH THE CITY OF CAPE CORAL REPRESENTATIVE REGARDING THE QUALITY, AND QUANTITY, OF MATERIAL TO BE TAKEN TO THE STORAGE SITE IDENTIFIED IN BID ITEM 120-6A. SHOULD THE CITY NOT HAVE A REPRESENTATIVE AVAILABLE, THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING THE QUALITY AND QUANTITY OF THE MATERIAL TAKEN TO THE STORAGE SITE
- LEE COUNTY IS NOT RESPONSIBLE FOR QUALITY OF MATERIAL ON SITE. THE GEOTECHNICAL BORING REPORT PROVIDED BY UNIVERSAL З. ENGINEERING SCIENCES, INC. PROVIDES ONLY A QUALITATIVE UNDERSTANDING OF ONSITE MATERIAL AT SELECT LOCATIONS.
- ROCK WAS ENCOUNTERED WHILE PERFORMING SOIL BOING INVESTIGATION AS INDICATED IN THE GEOTECHNICAL REPORT PROVIDED BY UNIVERSAL ENGINEERING SCIENCES, INC. COST ASSOCIATED WITH ROCK EXCAVATION, CRUSHING, DISPOSAL, ETC., SHALL BE INCLUDED IN THE APPLICABLE WORK ITEMS LISTED IN THE CONSTRUCTION CONTRACT.
- 5. NO BURNING IS AUTHORIZED ON SITE.

DRAINAGE NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE HIS ACTIVITIES COMPLY WITH NPDES REQUIREMENTS AND DO NOT CAUSE EROSION OR TURBIDITY PROBLEMS. THE CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO PREVENT SOIL EROSION OR TURBIDITY PROBLEMS FROM OCCURRING IN EITHER ONSITE OR OFFSITE WATER BODIES. FLOATING SILT FENCES, STAKED SILT FENCES OR STAKED SYNTHETIC BALES WILL BE UTILIZED BY THE CONTRACTOR AS NECESSARY TO PREVENT PROBLEMS FROM OCCURRING.
- AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO ACCEPTANCE OF THE PROJECT BY THE OWNER, THE CONTRACTOR WILL CLEAN OUT ALL DRAINAGE PIPES AND REMOVE ALL MATERIAL SO THAT THE INSIDE OF ALL PIPES AND INLETS ARE COMPLETELY FREE OF SANDS, SILTS OR ANY OTHER MATERIAL.

PROTECTIVE BARRIERS:

PROTECTIVE BARRIERS SHALL BE INSTALLED PURSUANT TO THE TREE PROTECTIVE MANUAL FOR BUILDERS AND DEVELOPERS, DIVISION OF FORESTRY, STATE OF FLORIDA, OR OTHER METHODS.

TRAFFIC AND STREET SIGNAGE.

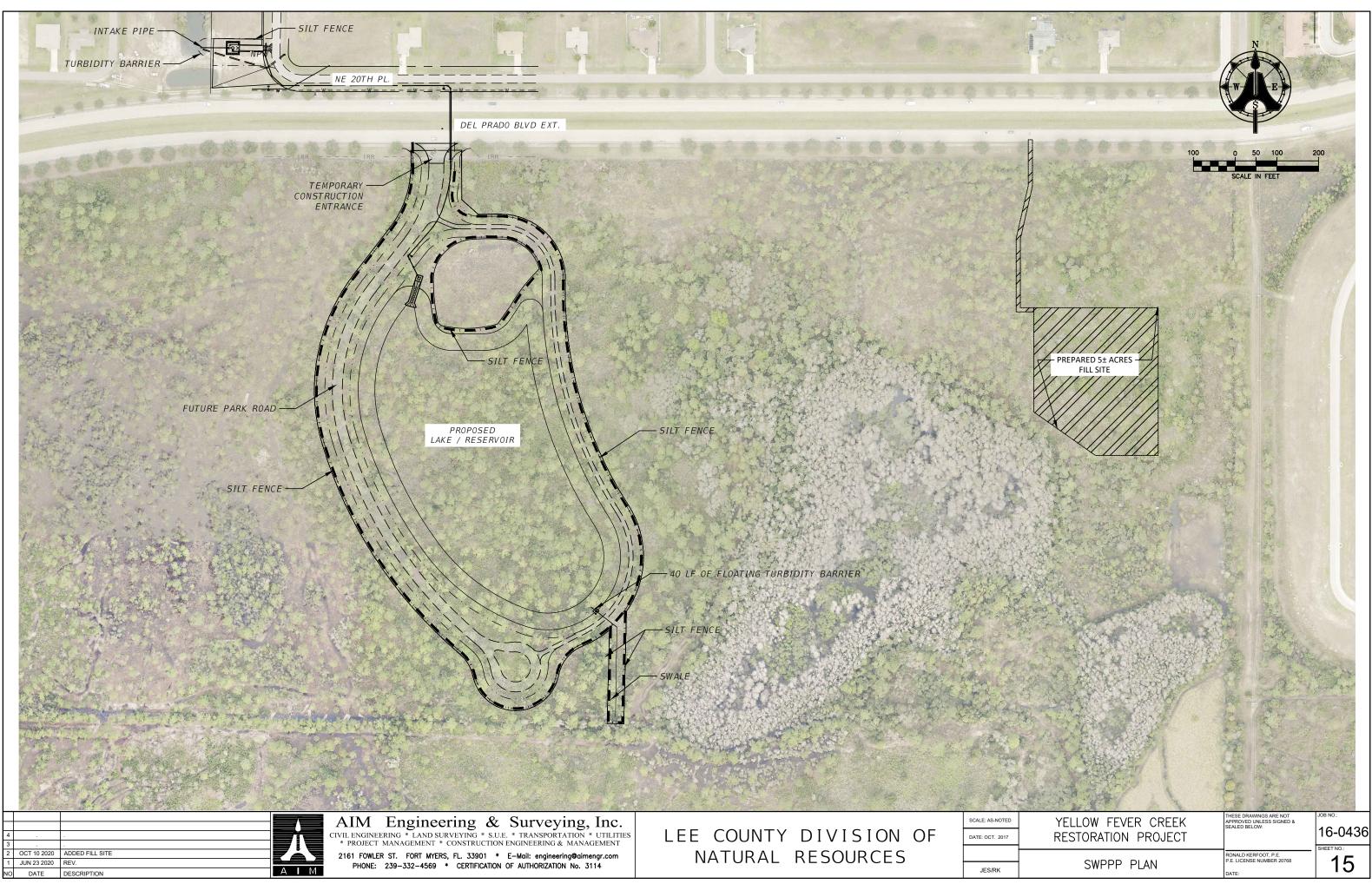
LEE COUNTY DIVISION

NATURAL RESOURCES

ALL TRAFFIC SIGNS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION.

	SCALE: AS-NOTED	
OF	DATE: OCT. 2017	
	JES/RK	

YELLOW FEVER CREEK RESTORATION PROJECT	THESE DRAWINGS ARE NOT APPROVED UNLESS SIGNED & SEALED BELOW:	^{јов №.:} 16-0436
GENERAL NOTES	RONALD KERFOOT, P.E. P.E. LICENSE NUMBER 20768	SHEET NO.: 14



effery Bozic 7/25/2017 2:57 PM P:\J0BS\Active\16-0436\Cad\Roadway\Permit Plans\15 SWPPP Plan.c

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by RECORDING TURBIDITY READINGS FROM THE CENTER OF THE STREAM, ONE (1) UPSTREAM OF THE ACTIVITY AND OWE (1) DOWNSTREAM OF THE SEDIMENT DEVICES, BUT WITHIN THE PROJECT RICHT OF WAY. IF WATER OULLITY STANDARDS ARE VIOLATED, CONSTRUCTION SHOULD BE STOPPED INMEDIATELY AND EROSION CONTROL DEVICES, BUT SERVED BY THE FORD EROSTREATTIVE PRIOR TO ANY CONTINUATION OF ACTIVITY. MUNITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE ESCORDED ON THE CONSTRUCTION INSPECTION REPORT MAD CONTINUES AND CONSTRUCTION SHOULD BE STOPPED INMEDIATE ONSTRUCTION INSPECTION REPORT MAD CONTINUES AND CONSTRUCTION SHOULD BE STOPPED DURIL TREADINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT MAD CONTINUES AND CONSTRUCTION SHOULD BE STOPPED DURING ANY PHASE OF CONSTRUCTION ADD UNIT TERBINGS OF TALE BELW ANA CEEPTABLE LEVEL 22 STUDIES ADD SUBJECTS BUT AS SOODING OR SEEDING OF SIDE SLOPES, PLACEMENT OF ASPHALT OR CONCRETE SHALL BE INITIATED AS SOOD AS PRACTICABLE IN PORTIONS OF THE STE WHENE CONSTRUCTION ACTIVITIES HAVE TERPORARILY OR PERMAMENTLY CEASED. BUT IN THE ORDER CONSTRUCTION ACTIVITIES HAVE TERPORARILY OF PERMAMENTLY CEASED. 3 STRUCTURE PROVINCES INCLUDE: 3 SOUTHAL PRACTICES INCLUDE: 3 SOUTHAL PRACTICES INCLUDE: 3 STRUCTURE PROVINCES INCLUDE: 3 STRUCTURE PROVINCES INCLUDE: 3 SOUTHAL PRACTICES AT CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES. 3 STRUCTURE PROVENTION DEVICES AT CONSTRUCTION ENTRANCES/EXITS 4 FLOATING PRACTICES AT CONSTRUCTION ENTRANCES/EXITS 4 SOUTHAL PRACTICES INCLUDE: 3 SOUTHAL PRACTICES INCLUDE: 3 SOUTHAL PRACTICES INCLUDE: 3 SOUTHAL PRACTICES AT CONSTRUCTION ENTRANCES/EXITS 4 FLOATING PRACTICES AT CONSTRUCTION ENTRANCES/EXITS 4 FLOATING PRACTICES AT CONSTRUCTION ENTRANCES/EXITS 4 FLOATING PRACTICES AT CONSTRUCTION ENTRANCES/EXITS 4 SO		ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (29 NTU'S ABOVE		PERMIT.	
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CONCRETE SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OF PERMANENTLY CEASED. BUT IN NO CASE SHALL THE TIME BE GREATER THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY TEMPORARILY OF PERMANENTLY CEASES. 3) STRUCTURAL PRACTICES INCLUDE: 3) STRUCTURAL PRACTICES INCLUDE: 5) SOLITACKING PREVENTION DEVICES AT CONSTRUCTION ENTRANCES/EXITS 5) SOLITACING PREVENTION DEVICES AT CONSTRUCTION STATEMENTS AND ENTRANCES/EXITS 5) SOLITACING PREVENTION DEVI	2)				Softwood 2"x4" Hardwood 1½" x Steel1.33 lbs./ft.
THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES. 3) STRUCTURAL PRACTICES INCLUDE: 3. SEDIMENT BARRIER 5. SOIT RACKING PREVENTION DEVICES AT CONSTRUCTION ENTRANCES/EXITS c. STAKED TURBIDITY BARRIER e. SYNTHETIC BALES NOTE: CONTRACTOR AND PREPARER CERTIFICATION STATEMENTS ARE REQUIRED. NOTE: CONTRACTOR AND PREPARER CERTIFICATION STATEMENTS ARE REQUIRED. NOTE: CONTRACTOR AND PREPARER CERTIFICATION STATEMENTS ARE REQUIRED. SOIT RACKING PREVENTION DEVICES AT CONSTRUCTION ENTRANCES/EXITS FORTING TURBIDITY BARRIER FORTING TURBIDITY FORTING FORTING TURBIDITY F		STABILIZATION MEASURES SUCH AS SODDING OR SEEDING OF SIDE SLOPES, PLACEMENT OF ASPHALT OR CONCRETE SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION			
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 soil tracking prevention devices at construction entrances/exits staked turbidity barrier e. synthetic bales AIM Engineering & Surveying, Inc. Civil engineering * Land surveying * sue. * transportation * utilities I FF COUNTY DIVISION OF DIVISION OF				NOTE, CONTRACTOR AND TREFAREN CENTIFICATION STATEMENTS ARE REQUIRED.	Dr More
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AIM Engineering & Surveying, Inc.	d. I	FLOATING TURBIDITY BARRIER			
		AIM Enginee	ering	& Surveying, Inc.	SCALE: AS-NOTED
			RVEYING	* S.U.E. * TRANSPORTATION * UTILITIES $ $	OF DATE: OCT. 2017

* PROJECT	MANA	AGEMEN	NT * C	CONS	STRUCT	ION	ENGINE	EERING &	MANA	GEME	NT
2161 FOWLE	r st.	FORT N	MYERS,	FL.	33901	*	E-Mail:	engineerin	g@aim	engr.co	m
PHONE:	239-	332-45	69 *	CE	RTIFICAT	ION	OF AUTH	IORIZATION	No. 3	114	

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1 JUN 23 2020 REV.

DATE DESCRIPTION

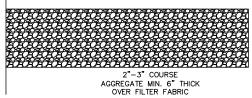
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JES/RK

NATURAL RESOURCES

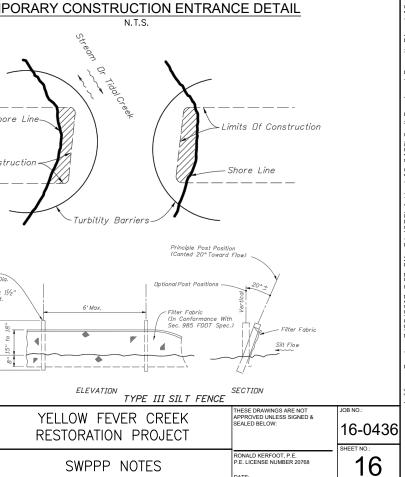
ROL

- SHALL USE TEMPORARY EROSION CONTROL METHODS TO PREVENT SILTATION OF AND STORMWATER DRAIN ENTRANCES, DRAINAGE DITCHES, WATER BODIES, WETLANDS AND RY.
- R SHALL USE BEST MANAGEMENT PRACTICES FOR EROSION CONTROL
- R SHALL SOD, SEED AND MULCH UPON FINAL GRADING TO LIMIT EROSION AND SILTATION.
- SHALL SAFELY STORE EQUIPMENT, FUEL, OIL AND OTHER HAZARDOUS SUBSTANCES
- R SHALL MONITOR, MAINTAIN AND CORRECT DEFICIENCIES OF THE EROSION CONTROL
- NLL CONTROL OFF-SITE TRACKING INCLUDING MATERIAL SPILLAGE OR SOIL TRACKING ONTO HIS MAY BE ACCOMPLISHED BY MANUAL REMOVAL AS NECESSARY, BUT NOT LESS THAN
- GRASSED BERM SHALL BE PLACED AT THE WORK SITE.
- SHALL ENSURE THAT THE ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSION UNCONFINED PARTICULATE MATTER IN ACCORDANCE WITH RULE 62-296.320(4)(c)]. TRATIVE CODE, FROM THE CONSTRUCTION SITE DURING ALL PHASES OF CONSTRUCTION BY ATE MEASURES TO STABILIZE AFFECTED AREAS.
- SHALL IMMEDIATELY CORRECT ALL OFFSITE SURFACE WATER DISCHARGES WITH TURBIDITY NTUS (NEPHELOMETRIC TURBIDITY UNITS) ABOVE BACKGROUND LEVEL SUCH INCIDENTS ED TO THE GOVERNING AGENCY WITHIN 24 HOURS OF THE OCCURRENCE. NOTIFICATION AUSE OF THE DISCHARGE AND CORRECTIVE ACTIONS TAKEN.
- PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS SHALL BE CONTAINED REPORTED IMMEDIATELY TO THE GOVERNING AGENCY. SMALLER GROUND SURFACE SPILLS ED UP AS SOON AS PRACTICAL. IN ACCORDANCE WITH INDUSTRY STANDARDS.
- D SOIL AND/OR GROUNDWATER IS DISCOVERED DURING CONSTRUCTION THE WORK ACTIVITY OF THE CONTAMINATION SHALL IMMEDIATELY CEASE, AND THE GOVERNING AGENCY SHALL



ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE TOP ING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC -OF-WAY.



1. THE CONTRACTOR OR OWNER'S REPRESENTATIVE WILL BE RESPONSIBLE FOR OBTAINING AN APPROPRIATELY SIZED TEMPORARY JUMPER ASSEMBLY WITH METER FROM THE CITY OF CAPE CORALS UTILITY COLLECTION AND DISTRIBUTION DEPARTMENT AT 574, 0852 PRIOR TO RECEIVING CITY WATER FOR CONSTRUCTION AND/OR TYING INTO ANY EXISTING POTABLE WATER MAIN LINES. A BILLING ACCOUNT MUST BE SET UP THROUGH THE CITY'S CUSTOMER BILLING DEPARTMENT PRIOR TO INSTALLATION. A REPRESENTATIVE FROM THE CITY OF CAPE CORAL'S DEVELOPMENT SERVICES AT 239 826 1569 MUST BE NOTIFIED 48 HOURS IN ADVANCE OF INSTALLATION AND BE PRESENT TO WITNESS AND RECORD THE INSTALLATION PROCESS. ACCOUNT DOCUMENTATION MUST BE SUBMITTED TO THE SITE DEVELOPMENT AND REVIEW INSPECTOR AT THE TIME OF METER INSTALLATION. AFTER CONSTRUCTION IS COMPLETE AND BEFORE THE TEMPORARY JUMPER AND METER IS REMOVED ALL POTABLE WATER MAINS SHALL BE FLUSHED AND PRESSURE TESTED PER AWWA SECTION C_600 AND DISINFECTED PER AWWA C_651.

2. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE CITY OF CAPE CORAL'S UTILITIES COLLECTION/ DISTRIBUTION DIVISION AT 574_0852 A MINIMUM OF 7 DAYS PRIOR TO ANY SHUT DOWN OR DIVERSION OF AN EXISTING WATER MAIN. A 48-HOUR NOTICE IS REQUIRED FOR A PRESSURE TEST. HOT TAP. OR TIE INTO EXISTING UTILITY MAIN, AND PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION. ALSO, THE CONTRACTOR WILL DISTRIBUTE ANY INTERRUPTION OF SERVICES NOTICES TO ALL AFFECTED PARTIES AND THE CITY WILL DISTRIBUTE ALL BOIL WATER AND RESCISSION NOTICES.

3. IF ANY UTILITY WORK (WATER, SEWER AND IRRIGATION) IS PERFORMED AFTER HOURS (SCHEDULED OR UNSCHEDULED) AND THE UTILITY WORK REQUIRES THE PRESENCE OF A CITY OF CAPE CORAL UTILITY INSPECTOR THE SUBJECT OVERTIME WILL BE REQUIRED TO BE PAID FOR BY THE CONTRACTOR. A BILL WILL BE CREATED AND ATTACHED TO THE APPROPRIATE PERMIT AND PAYMENT WILL BE REQUIRED BEFORE THE WATER FINAL INSPECTION IS COMPLETED

4. ALL UTILITY MAIN EXTENSIONS AND UTILITY MAIN REPLACEMENTS ARE REQUIRED TO BE A MINIMUM 6" MAIN. ALL SERVICE LATERALS 3" AND LARGER WILL REQUIRE A MINIMUM 6" TAP WITH 6" GATE VALVE AT THE CONNECTION POINT TO THE UTILITY MAIN WITH THE EXCEPTION OF TAPS ON MAINS SMALLER THAN 6".

5. THE CONTRACTOR IS PROHIBITED FROM TURNING OFF ANY EXISTING MAIN LINE VALVES. THESE WILL BE TURNED OFF BY A REPRESENTATIVE OF THE CITY OF CAPE CORAL'S UTILITY DEPARTMENT AT THE CONTRACTORS ARRANGED TIME AND DATE.

6. ALL EXISTING UTILITY SERVICE CONNECTIONS THAT WILL NOT BE UTILIZED FOR THIS PROJECT SHALL BE ABANDONED AT THE MAIN OR POINT AGREED UPON BY THE UTILITY INSPECTOR, PER CITY OF CAPE CORAL SPECIFICATIONS. WATER AND IRRIGATION SERVICES MUST BE ABANDONED AT THE MAIN. SEWER LATERALS MUST BE CAPPED AT THE ROW WITH AN APPROVED LOCATOR INSTALLED. A VISUAL INSPECTION MUST BE COMPLETED BY A CITY OF CAPE CORAL UTILITIES INSPECTOR.

UTILITY PAGE OF THE SITE PLANS.

8. THE CONTRACTOR WILL NEED TO ADJUST THE EXISTING UTILITIES AFFECTED BY THE NEWLY PROPOSED FINISHED GRADE AT THEIR EXPENSE. THESE ITEMS INCLUDE BUT NOT LIMITED TO; VALVE BOXES, VALVE PADS, VALVE STEM EXTENSIONS, SERVICE CONNECTIONS AND ACCESSORIES, BACKELOW PREVENTION DEVICES METER BOXES FIRE HYDRANTS MANHOLE COVERS AND/OR ADJUSTMENT RINGS IT IS THE CONTRACTORS' RESPONSIBILITY TO VERIFY THAT ADEQUATE DEPTHS AND CLEARANCES EXIST TO MAKE THE SYSTEM HYDRAULICS WORK PROPERLY. ANY CHANGES TO EXISTING UTILITIES MUST MEET THE CITY OF CAPE CORAL SPECIFICATIONS. DISINFECTION AND RE_SAMPLING WILL BE REQUIRED WHEN ANY EXISTING POTABLE WATER MAIN OR SERVICE IS DISTURBED AND IS THE RESPONSIBILITY OF THE CONTRACTOR AT HIS EXPENSE.

SECTION 09800.

SCALE: AS-NOTED

DATE: OCT. 2018

JES/RK

10. ALL BACKFLOW CERTIFICATIONS MUST BE EMAILED TO UCDINSP@CAPECORAL.NET AND TO THE ASSIGNED UTILITY INSPECTOR

ANY WORK OR MATERIALS WHICH DO NOT CONFORM TO THE CITY OF CAPE CORAL'S SPECIFICATIONS OR ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF THE CITY OF CAPE CORAL UTILITY INSPECTORS OR REPRESENTATIVES IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

12. THE STANDARD MINIMUM COVER FOR A WATER, IRRIGATION OR FORCE MAIN, WHICH IS NOT UNDER PAVEMENT, IS 30" BELOW FINISHED GRADE, OR 42" BELOW THE EDGE OF PAVEMENT. THE MINIMUM COVER FOR WATER MAINS PLACED UNDER PAVEMENT IS 36". PLEASE DEFER TO THE UTILITY DESIGN PROCEDURES MANUAL SECTION 4.1.5.

13. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO DEWATER TRENCH AND SECURE EXCAVATIONS. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS ASSOCIATED WITH THE CITY OF CAPE CORALS UTILITY DESIGN PROCEDURES MANUAL TECHNICAL SPECIFICATIONS SECTION 02140. ALL DEWATERING SHALL COMPLY WITH THE REGULATIONS OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT AND ANY AGENCY WITH JURISDICTION

14. THE CONTRACTOR SHALL LOCATE AND VERIFY THE SIZE, LOCATION, AND DEPTH OF ALL EXISTING UTILITIES ON SITE. THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR HAS SOLE RESPONSIBILITY TO LOCATE AND PROTECT UNDERGROUND UTILITIES IN THE PROJECT AREA. THE CONTRACTOR SHALL HAVE ALL UTILITIES IDENTIFIED AND MARKED PRIOR TO BEGINNING CONSTRUCTION.

15. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA BEFORE BEGINNING CONSTRUCTION AND BE RESPONSIBLE FOR PROTECTION OF ON SITE UTILITIES INCLUDING LOCATES DURING CONSTRUCTION. ANY UTILITIES THAT ARE DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE USING CITY APPROVED MATERIALS AND MUST BE REPORTED TO THE CITY OF CAPE CORAL UTILITIES COLLECTION/ DISTRIBUTION DEPARTMENT (574 0852), ALL REPAIRS MUST BE INSPECTED BY A CITY UTILITIES INSPECTOR PRIOR TO BACKFILL AND RESTORATION. IF THE CONTRACTOR IS UNABLE TO MAKE THE NECESSARY REPAIRS, THE CONTRACTOR WILL BE HELD LIABLE FOR COSTS ASSOCIATED WITH THE REPAIRS BY CITY PERSONNEL

THE CONTRACTOR SHALL ADJUST (AS REQUIRED) PIPELINE ALIGNMENTS HORIZONTALLY AND/OR VERTICALLY TO AVOID CONFLICTS WITH ACTUAL FIELD CONDITIONS AS UNCOVERED DURING CONSTRUCTION. HORIZONTAL AND VERTICAL SEPARATION SHALL CONFORM TO THE CITY OF CAPE CORAL DESIGN PROCEDURES MANUAL SECTIONS 1.5.1 AND 1.5.2.

17. "IN ACCORDANCE WITH THE CITY LAND DEVELOPMENT CODE SECTION 5.1.6, PROTECTION OF EASEMENTS (FKA LUDR SECTION 3.14), ANY IMPROVEMENTS PERMITTED TO BE INSTALLED IN ANY EASEMENT ON THE PROPERTY ARE SUBJECT TO REMOVAL, REPLACEMENT AND RESTORATION BY THE LANDOWNER SHOULD A UTILITY REQUIRE ACCESS TO THE SUBJECT FASEMENT FOR ANY PURPOSE. THE CITY WILL PROVIDE THE PROPERTY OWNER WITH ADVANCE NOTICE IF THE CITY REQUIRES ACCESS TO THE SUBJECT EASEMENTS FOR INSTALLATION OR MAINTENANCE PURPOSES EXCEPT IN EMERGENCY SITUATIONS."

THE CONTRACTOR SHALL MAINTAIN A CURRENT AND UPDATED SET OF AS_BUILT DRAWINGS AT ALL TIMES AND PROVIDE ONE COPY TO THE ENGINEER UPON COMPLETION OF CONSTRUCTION. ACCEPTANCE OF THE COMPLETED UTILITY SYSTEM WILL NOT BE GIVEN FINAL APPROVAL BY THE UTILITIES DEPARTMENT UNTIL AS BUILT PLANS HAVE BEEN SUBMITTED AND APPROVED BY THE ENGINEER OF RECORD

SEWER LATERAL REMOVAL AND EXISTING UNUSED MANHOLE CORE REPAIR PROCEDURE: THE EXISTING 8" SEWER STUB AND BOOT IS TO BE REMOVED AND THE OLD CORE FILLED BY DOWELING IN EPOXY COATED RE_BAR, FILLING THE VOID WITH POLY_RESIN CONCRETE AND INSTALLING THE REQUIRED PROTECTIVE COATING PER TECHNICAL SPECIFICATION SECTION 09800. THE UTILITY DEPARTMENTS PREFERRED CONTRACTOR FOR THE MANHOLE CORE REPAIR IS PAINTS AND COATINGS OR RESTORATION & PROTECTIVE SOLUTIONS. THE REMOVAL OF THE 8" SEWER STUB AND MANHOLE CORE REPAIR IS REQUIRED TO BE COMPLETED AND CURED PRIOR TO THE NEW CORE BEING DRILLED.

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2	AUG 31 2020	REV.
I	JUN 23 2020	REV.
0	DATE	DESCRIPTION



2161 FOWLER ST. FORT MYERS, FL. 33901 * E-Mail: engineering@aimengr.com PHONE: 239-332-4569 * CERTIFICATION OF AUTHORIZATION No. 3114

LEE COUNTY DIVISION OF NATURAL RESOURCES



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garage slab Finished floof

(TYP)

o' minimun

3 @≤ 12%

2% ≤ Y SLOPE ≤ 10%

SWALE DRIVE

X SLOPE

(2) ≤ 12%

Y SLOPE

CULVERT DRIVE

Ø MAXIMUM SLOPE CHANGE AT ANY VERTICAL ANGLE POINT NOT TO EXCEED 12%. I. SWALE & CULVERT SHALL BE FIELD DETERMINED BY THE CITY OF CAPE CORAL

TYPICAL DRIVEWAY SECTIONS

SWALE DRIVE

C SWALE

TYPICAL PAVEMENT

-2% SLOPE TYP

TYPICAL PAVEMENT

E.0.P.-

TYPICAL PAVEMENT

-2% SLOPE T

FOP-

-2% SLOPE TH

E.0.P.-

G-04

|X| + |Y| ≤ 12% E2% SLOPE TYP.

<u>CASE_#1</u> X ≤ − 14%

<u>CASE #2</u> X ≤ − 14%

|Y| – |Ž| ≤ 12%

<u>CASE #3</u> 2% ≤ Y ≤ 10%

<u>CASE_#4</u> Y ≤ 10%

|Y| – |Ž| ≤ 10%

|X| + |Y| ≤ 12%

1			RESIR	AINED LENGT	H EACH SIDE V	JF RESIRA	INED FIT	IING (FEET)						RESTRAIN	ED LENGI	H FUR REL	JUCERS				
	PIPE			DIP				PVC													
	DIA (INCHES)	90*	45*	22-1/2*	11-1/4	90*	45*	22-1/2*	11-1/4*	3	4	6	8	10	12	16	20	24	30	36	
	4	35	15	10	5	55	25	15	10	40	-	-	-		-	-	-	-	-	-	PVC
ſ	6	55	25	10	5	80	35	20	10	50	45	-	-		-	-	-	-	-	-	PVC
[8	65	30	15	10	90	40	20	10	75	70	40	-	-	-	-	-	-	-	-	PVC
ſ	10	80	35	20	10	110	50	25	15	95	90	70	40	-	-	-	-	-	-	-	PVC
[12	95	40	20	10	130	55	30	15	120	115	100	75	40	-	-	-	-	-	-	PVC
[16	120	50	25	15	165	70	35	20	160	155	140	125	1700	70	-	-	-	-	-	PVC
[20	150	65	30	15	200	85	40	20	200	195	185	170	150	130	75	-	-	-	-	PVC
	24	160	70	35	20	210	90	45	25	160	155	150	140	135	120	90	50	-	-	-	DIP
[30	190	80	40	20	250	105	50	25	195	190	185	180	170	160	120	105	70	-	-	DIP
	36	220	95	45	25	-	-	-	-	225	220	215	210	205	195	180	150	125	70	-	DIP
[42	245	105	50	25	-	-	-	-	245	240	235	230	225	220	205	180	155	105	50	DIP
[48	260	120	60	30	-	-	-	-	255	250	245	240	235	230	215	195	175	125	70	DIP

RESTRAINED LENGTHS FOR DEAD ENDS, BRANCHES AND HDPE TO PVC TRANSITIONS SHALL BE THE SAME AS FOR 90° BENDS, RESTRAINED LENGTHS FOR TEES SHALL BE THE SAME AS FOR 45° BENDS, IN-LINE VALVES SHALL BE RESTRAINED 20° EACH SIDG OF THE VALVE. (FA JUNT FALLS AT THE MAXIMUM DISTANCE, IT SHALL BE RESTRAINED). TABLE BASED ON DUCTILE IRON FITTINGS. TEST PRESSURE 150 PSI.

INED LENGTH FACH SIDE OF RESTRAINED FITTING (FEE

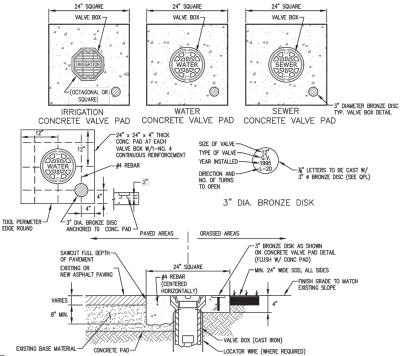


TYPICAL GENERAL UTILITY NOTES: (NOT ALL ITEMS ARE APPLICABLE TO THIS PROJECT)

7. THE ENGINEERS ESTIMATED FLOW DEMANDS FOR POTABLE WATER, IRRIGATION WATER AND SANITARY SEWER MUST BE PROVIDED ON THE

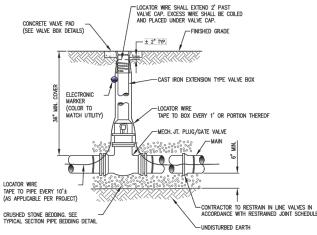
9 ALL FIRE LINES AND PRIVATE HYDRANTS WILL REQUIRE THE INSTALLATION OF AN APPROVED DDCV ASSEMBLY INSTALLED AS CLOSE TO THE ROW AS POSSIBLE WITHIN THE PUE. A FIRE HYDRANT RESPONSIBILITY AGREEMENT WILL BE REQUIRED FOR ALL PRIVATE FIRE HYDRANTS. ALL ABOVE GROUND ASSEMBLIES, PIPE, AND FITTINGS MUST BE PAINTED PER CITY OF CAPE CORAL TECHNICAL SPECIFICATIONS PROTECTIVE COATINGS

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- NOTES:
- 1. CAUTION SHOULD BE TAKEN NOT TO ALLOW ANY MATERIAL TO FALL INTO THE VALVE BOX CYLINDER. CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING ANY AND ALL MATERIAL RESULTING FROM THEIR VALVE BOX INSTALLATION AND/OR ADJUSTMENT OPERATION.
- ELECTRONIC MARKERS SHALL BE REQUIRED AT ALL VALVES 2"OR LARGER.
- FOR PRODUCTS AND MATERIALS SEE THE PROJECT SPECIFICATIONS AND THE CITY OF CAPE CORAL QUALIFIED PRODUCTS LIST.
- 4. EDGE OF VALVE PAD TO BE INSTALLED PARALLEL WITH CENTERLINE OF ROADWAY.
- VALVE PAD SHALL NOT STRADDLE PAVEMENT EDGE.
- 6. FOR DEPTHS GREATER THAN 4' FROM FINISH GRADE TO VALVE NUT PROVIDE EXTENSION WITH COLLAR AS REQUIRED AND BOLT TO VALVE NUT.
- LOCATOR WIRE SHALL EXTEND 2' PAST VALVE CAP. EXCESS WIRE SHALL BE COILED AND PLACED UNDER VALVE CAP. TAPE LOCATOR WIRE TO PIPE EVERY 10'±, AS APPLICABLE PER PROJECT.
- 8. INSTALL TO ADA SLOPE COMPLIANCE IF LOCATED WITHIN SIDEWALK.
- 9. ANY DAMAGE TO THE EXISTING ASPHALT SURFACE SHALL BE REPAIRED AS DEFINED IN THE ENGINEERING DESIGN STANDARDS.
 - W-210 VALVE BOX (PAVED AREAS/GRASSED AREAS)

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- FOR DEPTHS GREATER THAN 4 FEET FROM FINISH GRADE TO VALVE NUT, PROVIDE EXTENSION WITH COLLAR AS REQUIRED AND BOLT TO VALVE NUT.
- 2. ELECTRONIC MARKERS SHALL BE REQUIRED AT ALL VALVES 2"OR LARGER.
- 3. FOR PRODUCTS AND MATERIALS SEE THE PROJECT SPECIFICATIONS AND THE CITY OF CAPE CORAL QUALIFIED PRODUCTS LIST.



(1) FINISHED GRADE 2 PEDESTAL HOUSING (SEE **③ CONCRETE VALVE PAD** (SEE VALVE BOX DETAILS) (4) BRASS STREET ELL (5) S.S. POST WITH S.S. HARDWARE AND S.S. LOCKING HASP WITH BRASS LOCK *(***)**-3

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6 7 BRASS PIPE **8** BRASS REDUCER IF NEEDED 9 BRASS BALL CORP STOP

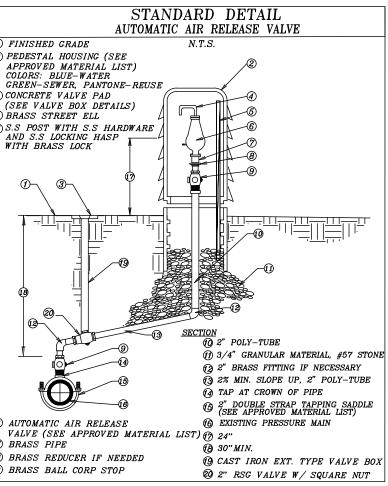
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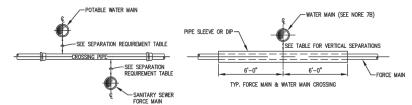
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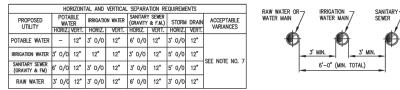
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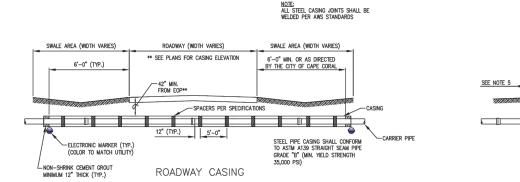




0/0 - DENOTES OUTSIDE OF PIPE TO OUTSIDE OF PIPE NOTES:

- 1. THE TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.D.E.P. RULES OF THE FLORIDA ADMINISTRATIVE CODE (FAC). THESE SEPARATION REQUIREMENTS SHALL APPLY BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES. F.A.C. 62–555.314
- FOR THE PURPOSE OF THIS TABLE IRRGATION WATER SHALL MEAN UNRESTRICTED PUBLIC ACCESS REUSE WATER AS DEFINED BY F.A.C. 62-610. OTHER TYPES OF RECLAIMED WATER ARE CONSIDERED RAW SEWAGE AND SEPARATIONS LISTED FOR SANITARY SEWER SHALL APPLY.
- ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE UNLESS OTHERWISE SPECIFIED. CRITERION PRODUCING GREATEST CLEARANCE SHALL BE USED. 3.
- 4. MINIMUM DISTANCE BETWEEN PIPE AND ANY STRUCTURES TO BE 12" 0/0.
- FOR VERTICAL SEPARATIONS ON WATER MAINS, 12" IS REQUIRED, HOWEVER, 6" IS ACCEPTABLE IF THE WATER MAIN IS ABOVE THE GRAVITY SANTARY SEWER OR STORM DRAIN, UPON RECEIVING PRIOR APPROVAL FROM THE CITY OF CAPE CORAL. 5.
- FOR SEPARATIONS NOT INVOLVING WATER MAINS, 12" IS REQUIRED, HOWEVER, 6" IS ACCEPTABLE UPON RECEIVING PRIOR APPROVAL FROM CONSTRUCTION MANAGER. 6.
- ACCEPTABLE VARIANCES: A WHERE HORIZONTAL SEPARATION IS NOT ATTAINABLE, DUCTLE IRON PIPE OR PVC ENCASEMENT MUST BE USED UNTIL MINIMUM CLEARANCE IS REGAINED. THE PIPE JOINTS SHALL BE STAGGERED AS FOLLOWS: 1) 3' BETWEEN YM AND VACUUM SEWERS, STORM SEWERS, AND RECLAMED WATER MAIN. JOINTS, 2) 6' BETWEEN YM AND GRAVITY SANITARY SEWER, SANITARY FORCE MAINS, SANITARY SEWER AND NON-REGULATED RECLAIMED WATER MAINS.
- MANS. B. FOR SANTARY SEWERS OR STORM DRAINS CROSSING UNDER MAINS WHERE 6° MINIMUM VERTICAL SEPARATION IS NOT ATTAINABLE; FOR IRRIGATION AND FORCE MAINS, USE ONE FULL LENGTH OF PVC ENCASED PIPE CENTERED AT THE FOINT OF CROSSING WITHE WATER MAIN, USE ONE FULL LENGTH OF PIPE CENTERED AT THE FOINT OF COGSING WITH NO LESS THAN 0 EST ENTAN 0'S ENTREMAIN, USE ONE FULL SPECIFICATIONS.
- SPECIFICATIONS. D. MINMUM HORZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS & GRAVITY-TYPE SEWER MAY BE REDUCED TO 3' WHERE BOTTOM OF WATER MAIN IS 6' ABOVE TOP OF SEWER.
- FOR SANITARY SEWERS CROSSING OVER WATER MAINS, A MINIMUM VERTICAL DISTANCE OF 12 INCHES AND THE CRITERIA FOR MINIMUM SEPARATION OF JOINTS IN 7(B) ABOVE MUST BE MAINTAINED.
- 9. NO WATER PIPE SHALL PASS THROUGH, OR COME IN CONTACT WITH, ANY PART OF A SANITARY MANHOLE OR STRUCTURE.
- 10. A MINIMUM VERTICAL SEPARATION OF 6" SHALL BE KEPT BETWEEN SANITARY SEWER SERVICES AND MAIN LINE PIPES.
- UTILITY LINES SHALL HAVE A MINIMUM 3' VERTICAL AND HORIZONTAL SEPARATION FROM ELECTRICAL AND FIBER OPTIC LINES. WHEN FACILITY/UTILITY LINES WILL CROSS ELECTRICAL OR FIBER OPTIC LINES, HAND DIGGING SHALL BE REQUIRED TO LOCATE THESE LINES.





CARRIER PIPE NOMINAL DIAMETER

- NOTES 1. SPACERS REQUIRED FOR ALL JACK AND BORE INSTALLATIONS.
- CARRIER PIPE SHALL BE RESTRAINED PER SPECIFICATIONS.
- CASING SHALL BE SIZED PER THE STEEL CASING PIPE SCHEDULE SHOWN ABOVE.
- EXTEND CASING 6 FEET MINIMUM BEYOND EDGE OF PAVEMENT AND/OR BACK OF CURB FOR LEE COUNTY DOT MAINTAINED ROW AND 8 FEET FOR STATE ROADWAYS.
- ELECTRONIC MARKERS SHALL BE PLACED AT THE ENDS OF THE CASING PIPE, ALL CHANGES OF DIRECTION, START AND END OF VERTICAL DEFLECTIONS, AND SERVICES AT THE CORPORATION STOP OR SEWER SERVICE WYE. LMARKERS SHALL BE LOCATED AT A MAXIMUM DEPTH OF 4 FEET. THE MARKERS SHALL NOT BE PLACED IN CONTACT WITH DIP FITTINGS.

POTABLE WATER		COLOR	BLUE
SANITARY SEWER	R	- COLOR	GREEN
SANITARY SEWER	R FORCE MAIN	- COLOF	R GREEN
IRRIGATION/REU	SE WATER	COLOF	R LAVENDER

6. FOR PRODUCTS AND MATERIALS SEE THE PROJECT SPECIFICATIONS AND THE CITY OF CAPE CORAL QUALIFIED PRODUCTS LIST.



STEEL CASING PIPE SCHEDULE

ROADWAY CASING WALL THICKNESS

0.250

0.312

0.344

0.375" 0.469"

0.531

0.625

0.688

Steel Casing PIPE Nominal Diameter

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DRIVEWAY CASING WALL THICKNESS

0.188"

0.219

0.250

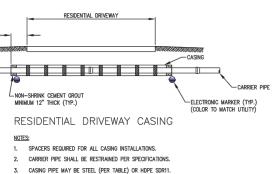
0.281

0.312

0.406" 0.469"

0.562

0.62

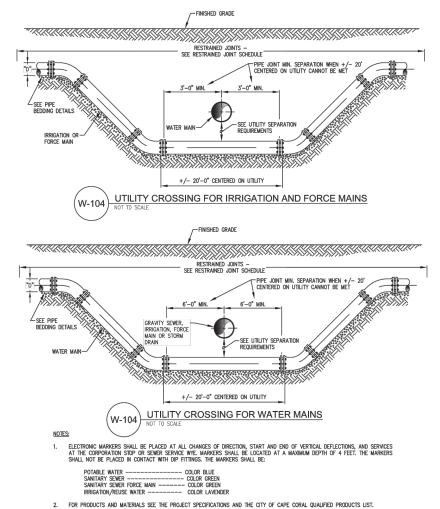


- CASING PIPE SHALL BE SIZED PER THE STEEL CASING PIPE SCHEDULE SHOWN.
- EXTEND CASING 3 FEET MINIMUM BEYOND EDGE OF DRIVEWAY PAVEMENT AND ASSOCIATED BORDERS. ELECTRONIC MARKERS SHALL BE PLACED AT THE ENDS OF THE CASING PIPE, ALL CHANGES OF DIRECTION, START AND END OF VERTICAL DEFLECTIONS, AND SERVICES AT THE CORPORATION STOP OR SEWER SERVICE WYE. MARKERS SHALL BE LOCATED AT A MAXMUM DEPTH OF 4 FEET. THE MARKERS SHALL NOT BE PLACED IN CONTACT WITH DIP FITTINGS.

POTABLE WATER ------ COLOR BLUE SANITARY SEWER FORCE MAIN ------ COLOR GREEN IRRIGATION/REUSE WATER ------ COLOR LAVENDER

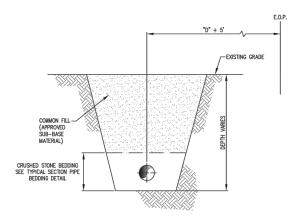
- FOR PRODUCTS AND MATERIALS SEE THE PROJECT SPECIFICATIONS AND THE CITY OF CAPE CORAL QUALIFIED PRODUCTS LIST.
- 8. THE COST OF CASING INSTALLATION SHALL BE INCLUDED IN THE COST OF DRIVEWAY RESTORATION.

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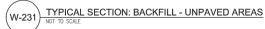
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3. ALL DIVERSIONS SHALL BE CONSTRUCTED USING DUCTILE IRON PIPE.



NOTE

COMMON FILL (APPROVED SUB-BASE MATERIAL) SHALL BE COMPACTED TO AT LEAST 95% MAXIMUM DENSITY (AASHTO T-180). WHEN THE CENTERLINE OF THE TRENCH IS WITHIN A DISTANCE OF "O" + 5" FROM THE EDGE OF A PAVED ROAD OR DRIVEWAY, COMMON FILL (APPROVED SUB-BASE MATERIAL) (LBR 40) MINIMUM SHALL BE USED AND COMPACTED TO AT LEAST 95% MAXIMUM DENSITY (AASHTO T-180).



NOTES:

(w-233)

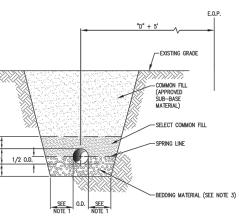
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DIMENSION VARES WITH PIPE DIAMETER: 10'MAX, FOR NOWINAL PIPE DIAMETER OF 24'OR LESS. 12'MAX, FOR NOWINAL PIPE DIAMETER OF MORE THAN 24'AND LESS THAN 42'. 24'MAX, FOR NOWINAL PIPE DIAMETER OF 42'OR MORE.

COMMON FILL (APPROVED SUB-BASE MATERIAL) SHALL BE COMPACTED TO AT LEAST 95% MAXIMUM DENSITY (AASHTO T-180). WHEN THE CENTERLINE OF THE TRENCH IS WITHIN A DISTANCE OF "D" + 5" FROM THE EDGE OF A PAVED ROAD OR DRIVEWAY, COMMON FILL (APPROVED SUB-BASE MATERIAL) (LBR 40) MINIMUM SHALL BE USED AND COMPACTED TO AT LEAST 98% MAXIMUM DENSITY (AASHTD T-180).

BEDDING MATERIAL SHALL BE FDOT #57 STONE IF IN OR BELOW THE GROUNDWATER TABLE, OR FDOT #89 STONE IF ABOVE THE GROUNDWATER TABLE.

4. BEDDING FOR GRAVITY SEWER SHALL BE #57 STONE.

TYPICAL SECTION: PVC BEDDING

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RESTORATION PROJECT	

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UTILITY DETAILS

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