



CONSTRUCTION PLANS

NOVEMBER 2018

WINTER PARK PINES OUTFALL CANAL E-03-H IMPROVEMENTS FROM FORSYTH ROAD TO THE CRANE STRAND CANAL

DISTRICT NO. 5
ORANGE COUNTY, FLORIDA

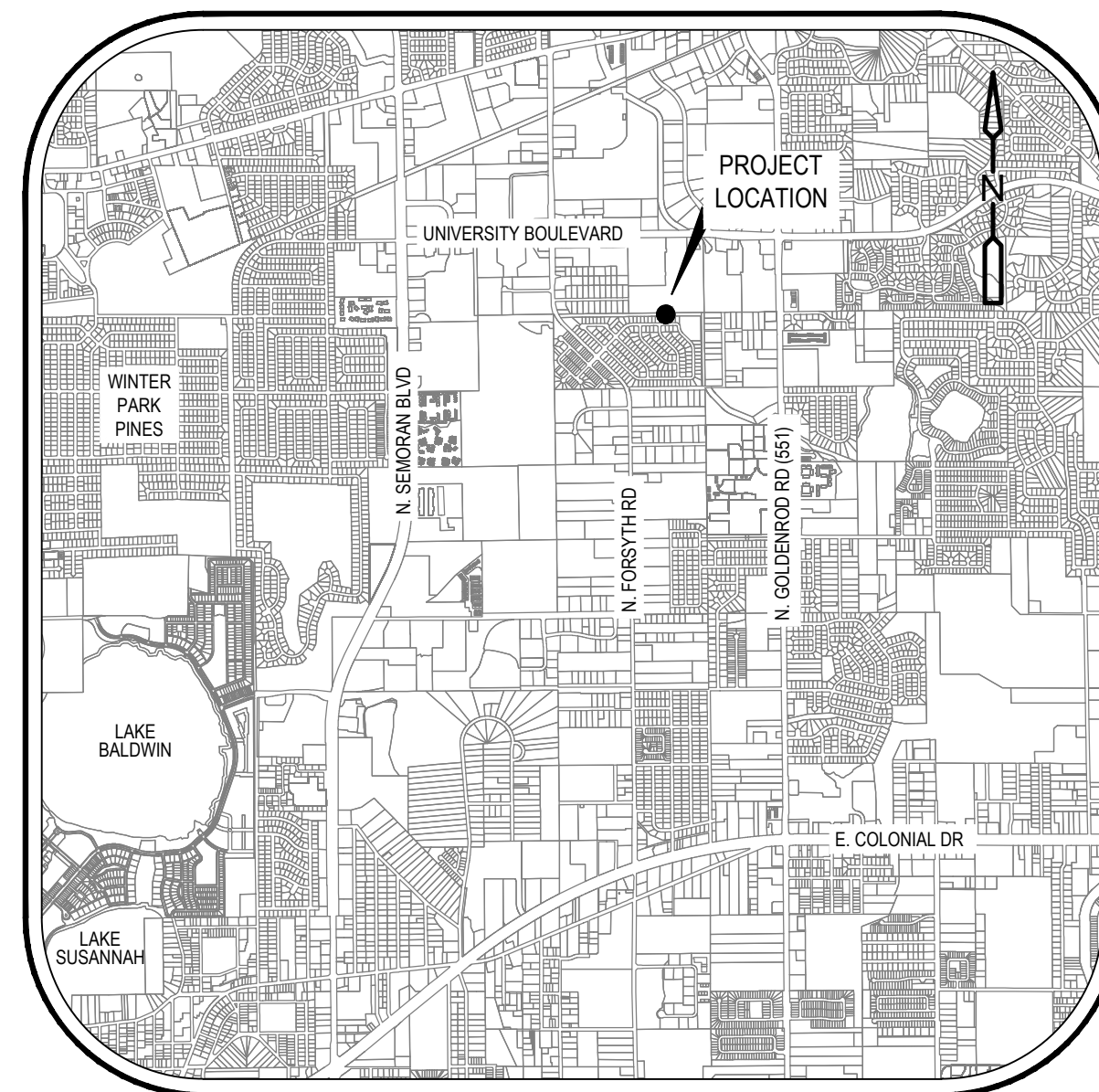
OWNER
ORANGE COUNTY PUBLIC WORKS
4200 SOUTH JOHN YOUNG PARKWAY
ORLANDO, FLORIDA 32839

CIVIL ENGINEER (PRIME CONSULTANT)
CDM SMITH
101 SOUTHHALL LANE, SUITE 200
MAITLAND, FLORIDA 32751

CIVIL ENGINEER (SUB-CONSULTANT)
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708

GEOTECHNICAL (SUB-CONSULTANT)
ANTILLIAN ENGINEERING ASSOCIATES, INC.
3331 BARTLETT BOULEVARD
ORLANDO, FLORIDA 32811

SURVEYOR (SUB-CONSULTANT)
SOUTHEASTERN SURVEYING & MAPPING CORPORATION
6500 ALL AMERICAN BOULEVARD
ORLANDO, FLORIDA 32810



ORANGE COUNTY PROPERTY APPRAISER PARCELS

VICINITY MAP

N.T.S.

SOURCE OF BENCHMARK DATUM

REFER TO SURVEY PREPARED BY SOUTHEASTERN SURVEYING & MAPPING CORPORATION (VERTICAL CONTROL BASED ON NAVD 88 DATUM)

SITE BENCHMARKS

ORANGE COUNTY BENCHMARK R510022
ELEVATION = 86.533'

NOTES

1. ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

- 11" X 17" DRAWINGS - HALF SIZE
- 22" X 34" DRAWINGS - TO SCALE

BOARD OF COUNTY COMMISSIONERS

TERESA JACOBS

COUNTY MAYOR

BETSY VANDERLEY

DISTRICT 1

ROD A. LOVE

DISTRICT 2

PETE CLARKE

DISTRICT 3

JENNIFER THOMPSON

DISTRICT 4

EMILY BONILLA

DISTRICT 5

VICTORIA P. SIPLIN

DISTRICT 6

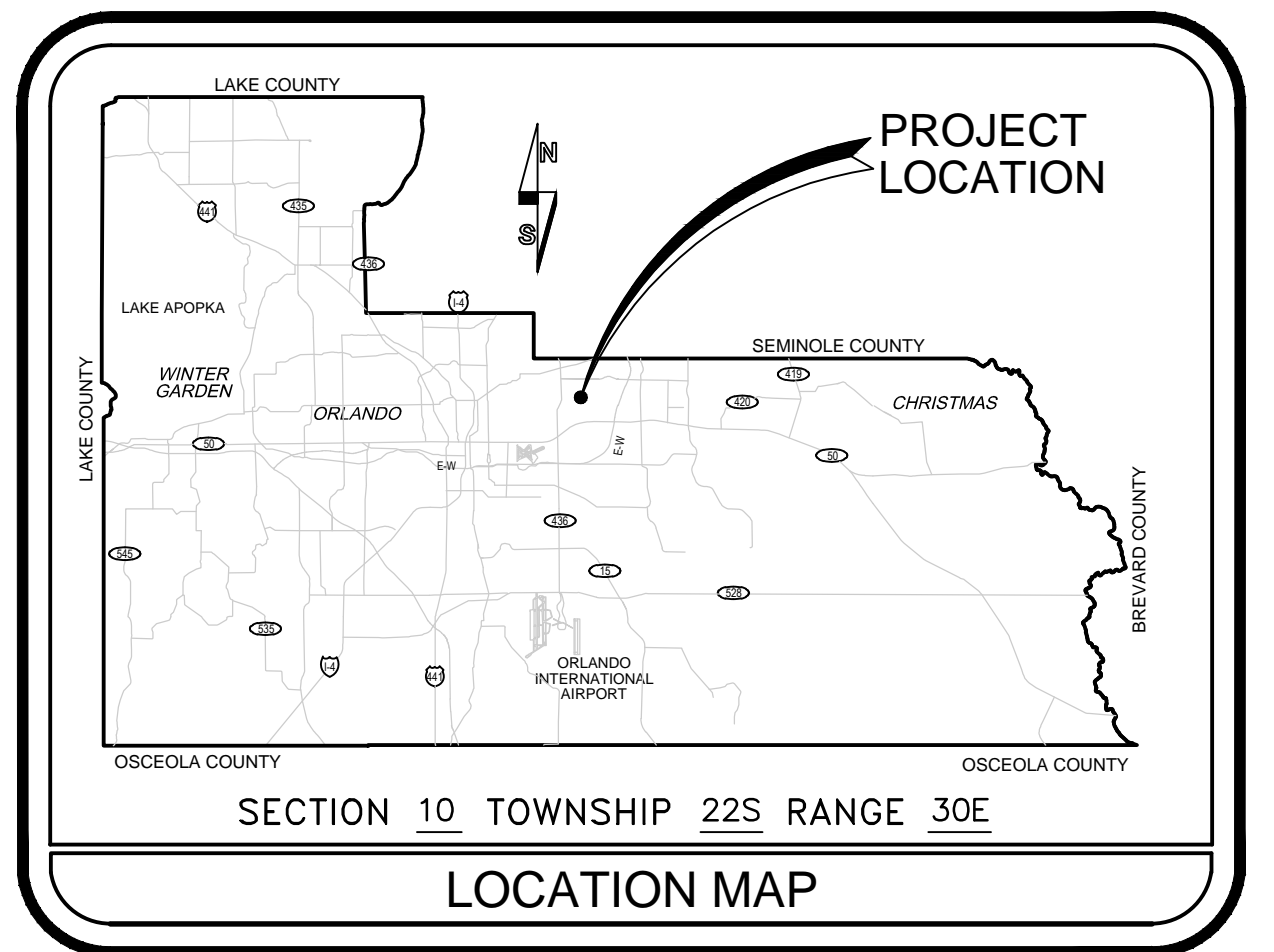
NOTE

PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATELY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLANS PREPARATION. NEEDS, CONDITIONS AND OWNERSHIP OF PROPERTIES MAY HAVE CHANGED SINCE PROJECT DESIGN. THE COUNTY'S REPRESENTATIVE WILL ADDRESS CHANGES AND NEEDS WITH THE PROPERTY OWNER OR THEIR REPRESENTATIVES. CONTRACTOR SHALL WORK WITH THE COUNTY'S REPRESENTATIVE IN ADDRESSING AND MEETING NEEDS AND CONDITIONS THAT MAY HAVE CHANGED SINCE PLANS PREPARATION.

CERTIFICATION TO PLANS

I HEREBY CERTIFY THAT THE DESIGN FOR THIS PROJECT AND THE ATTACHED CONSTRUCTION PLANS COMPLY WITH THE REQUIREMENTS OF SECTION 336.045 OF THE FLORIDA STATUTES AND ARE IN SUBSTANTIAL CONFORMANCE WITH THE STANDARDS CONTAINED IN THE EDITION OF THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" IN EFFECT ON THIS DATE AS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO SUBSECTION 336.045(1) OF THE FLORIDA STATUTES.

ENGINEER: JANE M. WILLIAMS, P.E. REG. NO. 64088



LOCATION MAP

INDEX OF SHEETS

SHEET	DESCRIPTION
G-1	COVER SHEET
G-2	GENERAL NOTES, LEGEND AND SUMMARY OF PAY ITEMS
G-3	EXISTING CONDITIONS
C-1	KEY PLAN AND SOIL BORING LOCATIONS
C-2	PLAN AND PROFILE
C-3	CROSS SECTIONS
C-4	EROSION CONTROL PLAN
C-5	STORMWATER POLLUTION PREVENTION PLAN
CD-1	WEIR DETAILS

UTILITIES ENCOUNTERED

N/A NO UTILITIES ENCOUNTERED
REFER TO SHEET G-2 FOR
UTILITY OWNERS AND CONTACTS

PREPARED BY:



101 SOUTHHALL LANE, SUITE 200
MAITLAND, FLORIDA 32751
TEL: 407-660-2552
CERT. OF AUTHORIZATION NO. EB-0000020

REVISIONS AND SUBMITTAL HISTORY

REVISIONS AND SUBMITTAL HISTORY	DATE	BY

DESIGNED BY: JMW DATE: 11/18
CHECKED BY: JTW DATE: 11/18
DRAWN BY: VCS DATE: 11/18
APPROVED BY: JMW DATE: 11/18
PROJECT NO: 110784

SHEET G-1

CANAL E-03-H IMPROVEMENTS

GENERAL NOTES

- ALL ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENT OF THE PROJECT SPECIFICATION, THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (FDOT), AND SUPPLEMENTS THERETO, AND ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS.
- SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS AVAILABLE, TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND TO MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS.
- ALL COMPENSATION FOR THE COST OF REMOVAL, REPLACEMENT, RELOCATION AND/OR INSTALLATION OF MONUMENTS, FENCES, SIGNS, IRRIGATION SYSTEMS, LANDSCAPING FEATURES, TREES, MAILBOXES AND ASSOCIATED RESTORATION SHALL BE INCLUDED IN THE COST OF CLEARING AND GRUBBING.
- THE DISPOSAL OF EXCESS EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. APPROVAL OF DISPOSAL SITES SHALL BE OBTAINED FROM ORANGE COUNTY PRIOR TO DISPOSAL. ALL EXCESS MATERIAL IS THE PROPERTY OF THE CONTRACTOR.
- EXISTING TREES WITHIN THE RIGHT-OF-WAY ARE TO BE PROTECTED UNLESS MARKED AS TO BE REMOVED.
- SEED AND MULCH ALL DISTURBED AREAS UNLESS OTHERWISE DIRECTED. SOD IN DISTURBED AREAS SHALL MATCH EXISTING TYPE SOD, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- INSTALL A 4" MUCK BLANKET OR TOPSOIL TREATMENT ON ALL PERMANENT GRASS AREAS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR SOD.
- SOD ALL SLOPES 3:1 OR STEEPER.
- THE CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH REQUIREMENTS OF THE VARIOUS PERMITS INCLUDED IN THE BID SPECIFICATIONS. PAYMENT IS INCLUDED IN THE BID PRICE FOR SECTION 104; "PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION", EXCLUDING ITEMS SPECIFIED ELSEWHERE. ENVIRONMENTAL CONTROLS SHALL BE USED AT LOCATIONS DESIGNATED IN THE PLANS AND/OR DESIGNATED BY THE ENGINEER.
- THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH PROJECT CONSTRUCTION. PRIOR TO ORDERING DRAINAGE STRUCTURES, THE CONTRACTOR SHALL DETERMINE IF DRAINAGE/UTILITY CONFLICTS EXIST. INFORMATION ON CONFLICTS IS TO BE SUBMITTED TO THE ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY FOR RESOLUTION.
- PRIOR TO COMMENCEMENT OF WORK CONTRACTOR SHALL CALL SUNSHINE ONE 48 HOURS IN ADVANCE OF PERFORMING ANY UTILITY ADJUSTMENTS OR RELOCATIONS. SUNSHINE ONE PHONE NUMBER IS 1-800-432-4770.
- UTILITIES ARE TO BE ADJUSTED BY OTHERS OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY ALL GAS UTILITY COMPANIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION AS REQUIRED BY CHAPTER 77-153 OF THE FLORIDA STATUTES.
- ALL DRAINAGE PIPES SHALL BE STEEL REINFORCED CONCRETE PIPE, CLASS III, UNLESS OTHERWISE NOTED.
- MEASUREMENT OF DRAINAGE PIPE FOR PAYMENT SHALL BE DETERMINED FROM ACTUAL LENGTHS INSTALLED.
- ALL INLET/MANHOLE - PIPE JOINTS SHALL BE FILLED WITH NON-SHRINK GROUT, COVERED WITH AN ASPHALT MASTIC COATING, AND WRAPPED WITH A FILTER FABRIC MATERIAL PER SECTION 13.03.03 OF THE ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS. ALL PIPE JOINTS IN THIS PROJECT SHALL BE WRAPPED PER FDOT STANDARD INDEX No. 280 OR AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN THE COST OF THE PIPE CULVERT.
- ALL CURB INLETS, DITCH BOTTOM INLETS, AND MANHOLES SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS OR GRATES MEETING HS-20 LOADING REQUIREMENTS.
- ALL EXISTING DRAINAGE STRUCTURES AND PIPES IF ABANDONED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED, UNLESS OTHERWISE SHOWN IN THE PLANS OR DIRECTED BY THE ENGINEER.
- DESIGN CHANGES OF PIPE INVERTS NOT EXCEEDING PLUS OR MINUS ONE FOOT WILL NOT BE CONSIDERED AS A BASIS FOR ADDITIONAL COMPENSATION FOR THE PERTINENT PIPE BID ITEM OR FOR MODIFICATION OF PRECAST STRUCTURES.
- ALL (P.R.M.'s) IRONS AND MONUMENTS SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.
- ANY U.S.C. AND G.S. MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, ORANGE COUNTY SURVEY SECTION 407-836-7940 AND BOTH SHALL NOTIFY: STATE GEODETIC ADVISOR, RONNIE TAYLOR 3900 COMMONWEALTH BOULEVARD, SUITE 309, TALLAHASSEE, FL 850-245-2606
- PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE COUNTY SURVEYOR, WITHOUT DELAY, BY TELEPHONE (407-836-7940). THE CONTRACTOR SHALL PROVIDE WRITTEN FOLLOW UP CONFIRMATION WITHIN 48 HOURS OF TELEPHONE NOTIFICATION.
- PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO ORANGE COUNTY HIGHWAY CONSTRUCTION DEPARTMENT A SET OF FIELD NOTES VERIFYING THE BENCHMARK ELEVATIONS AND THE REFERENCE POINT TIES SHOWN ON THE TITLE SHEET AND PLAN AND PROFILE SHEETS, AND/OR A SET OF FIELD NOTES FOR ALL ADDITIONAL BENCHMARK AND REFERENCE POINT TIES PROPOSED TO BE USED IN CONSTRUCTING THE PROJECT WITH THEIR LOCATION, DESCRIPTION AND ELEVATION, BASED ON ORANGE COUNTY DATUM. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
- ALL EXCAVATIONS SHALL BE REQUIRED TO CONFORM TO THE PROVISION OS PART IV OF CHAPTER 553.60, F.S., ALSO KNOWN AS THE "TRENCH SAFETY ACT", TO PROTECT EXISTING PAVEMENT, STRUCTURES, FOUNDATIONS, AND CONSTRUCTION PERSONNEL DURING CONSTRUCTION OF THE PROJECT.
- CONTRACTOR IS TO MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AND SIDE STREETS AT ALL TIMES AND IS TO NOTIFY PROPERTY OWNERS FIVE DAYS PRIOR TO STARTING CONSTRUCTION.
- ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAT THE CONDITION EXISTING. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- CONTRACTOR SHALL MAINTAIN FLOW CAPACITY OF EXISTING STORMWATER SYSTEM THROUGHOUT DURATION OF CONSTRUCTION. NO FLOODING OF ONSITE OR OFFSITE AREAS DUE TO CONSTRUCTION WILL BE ALLOWED.
- CONTRACTOR SHALL DEVELOP A PHASED DEWATERING AND FLOW DIVERSION PLAN AND SUBMIT TO THE COUNTY AND ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

CAUTION:

Chapter 77-153 of the Florida Statutes requires that an excavator notify all gas utilities a minimum of two working days prior to excavating. Maps show only the approximate location of gas mains or service lines. The only safe and proper way to locate gas facilities is by an on-site inspection by T.E.C.D. GAS SYSTEMS. Therefore, excavators are instructed to telephone us at 407-425-4661 two working days before digging in a construction area.

UTILITY OWNERS & CONTACTS

THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.

BRIGHT HOUSE NETWORKS, LLC
3767 ALL AMERICAN BOULEVARD
ORLANDO, FL 32810
MARVIN USRY 407-532-8509

ORANGE COUNTY UTILITIES
201 S ROSALIND AVENUE
ORLANDO, FL 32801
DAVID SHORETTE 407-254-9764

ORLANDO UTILITIES COMMISSION
6003 E PERSHING AVENUE
ORLANDO, FL 32822
STEVEN LOCKINGTON 407-434-2568

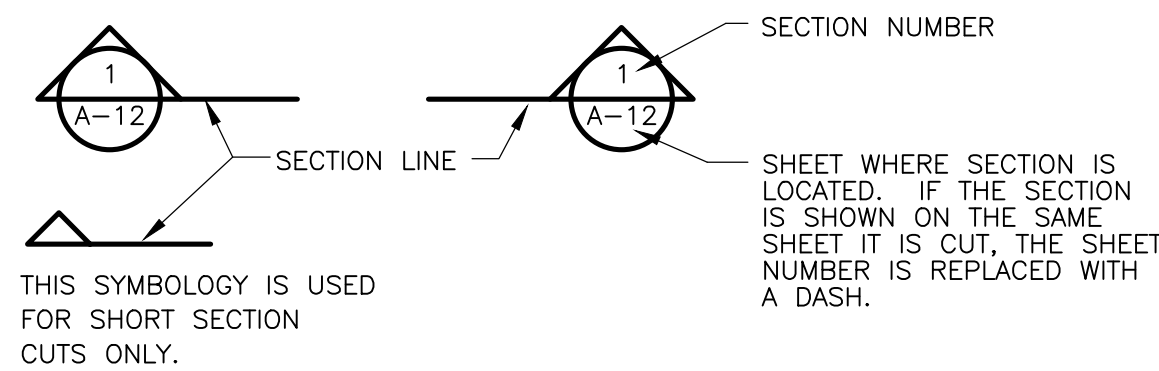
AT&T/DISTRIBUTION
1120 S ROGERS CIRCLE
BOCA RATON, FL 33487 561-997-0240

LEGEND

	STORM SEWER		EXISTING CHAIN LINK FENCE
	EXISTING SANITARY SEWER W/ MANHOLE		STORMSEWER TO BE CONST. UNDER EXISTING UTILITY
	EXISTING FIBER OPTIC		STORMSEWER TO BE CONST. OVER EXISTING UTILITY
	EXISTING WATER MAIN		BENCH MARK/ SOIL BORING
	EXISTING BURIED TELEPHONE		PROPOSED SILT FENCE
	EXISTING POWER DUCTS OR CABLES		EXISTING CONTOUR
	EXISTING OVERHEAD WIRE		PROPOSED CONTOUR
	EXISTING CABLE TELEVISION		EXISTING SPOT ELEVATION
	EXISTING STORM SEWER W/CATCH BASIN		PROPOSED SPOT ELEVATION
	EXISTING FIRE HYDRANT		DRAINAGE STRUCTURE ID
	EXISTING POWER POLE		DITCH BOTTOM INLET
	EXISTING LIGHT POLE		STORMWATER MANHOLE
	R/W - RIGHT OF WAY		EXISTING GAS LINE
	PL - PROPERTY LINE		EXISTING SPRINKLER HEAD
	JURISDICTIONAL BOUNDARY		EXISTING ELECTRICAL BOX
	LIMITS OF CONSTRUCTION		
	EASEMENTS		
	WATER ELEVATION		
	BASE LINE		
	PROPOSED FLOATING TURBIDITY BARRIER		
	PROPOSED CHAIN LINK FENCE		

SUMMARY OF PAY ITEMS					
REF. NUMBER	FDOT PAY ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY TOTAL	
				PLAN	FINAL
1	101-1	Mobilization(10% of Items 2 through 12)	LS	1	
2	102-1	Maintenance of Traffic	LS	1	
3	104-1	Prevention, Control and Abatement of Erosion and Water Pollution	LS	1	
4	104a-1	Dewatering / Flow Diversion	LS	1	
5	110-1-1	Clearing & Grubbing	LS	1	
6	120-9	Excavation Embankment and Grading	LS	1	
7	455-133-3	Sheet Piling Steel (Permanent)	SF	1320	
8	524-1	Concrete Ditch Pavement	SY	128	
9	530-3-3	Riprap-Rubble (Bank & Shore)	TN	160	
10	550-10-220	Fencing Type "B"	LF	32	
11	570-1	Performance Turf	SY	900	
12	571-1-13	Plastic Erosion Mat, TRM, Type 3	SY	1200	
13	900-1	As-Built Plans	LS	1	
14	900-2	Indemnification	LS	1	

SECTION CUT SYMBOLS



DRAWING, SECTION AND DETAIL TITLES

SUBTITLE OR DESCRIPTION

PLAN

1/4" = 1'-0"

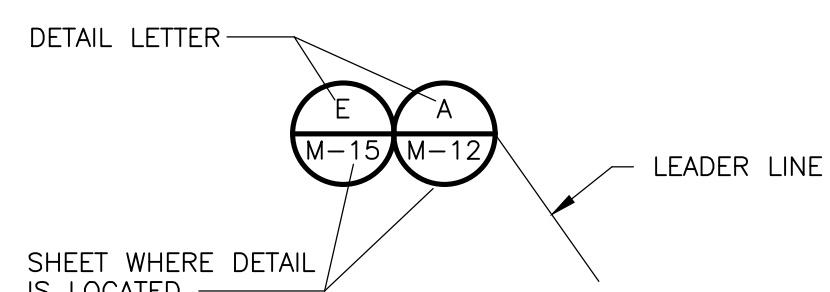
SECTION

3/4" = 1'-0"

DETAIL

3/4" = 1'-0"

DETAIL CALL OUT SYMBOLS



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REV. NO.	DATE	DRWN	CHKD	REMARKS

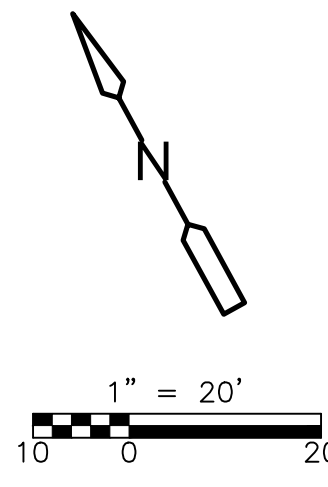
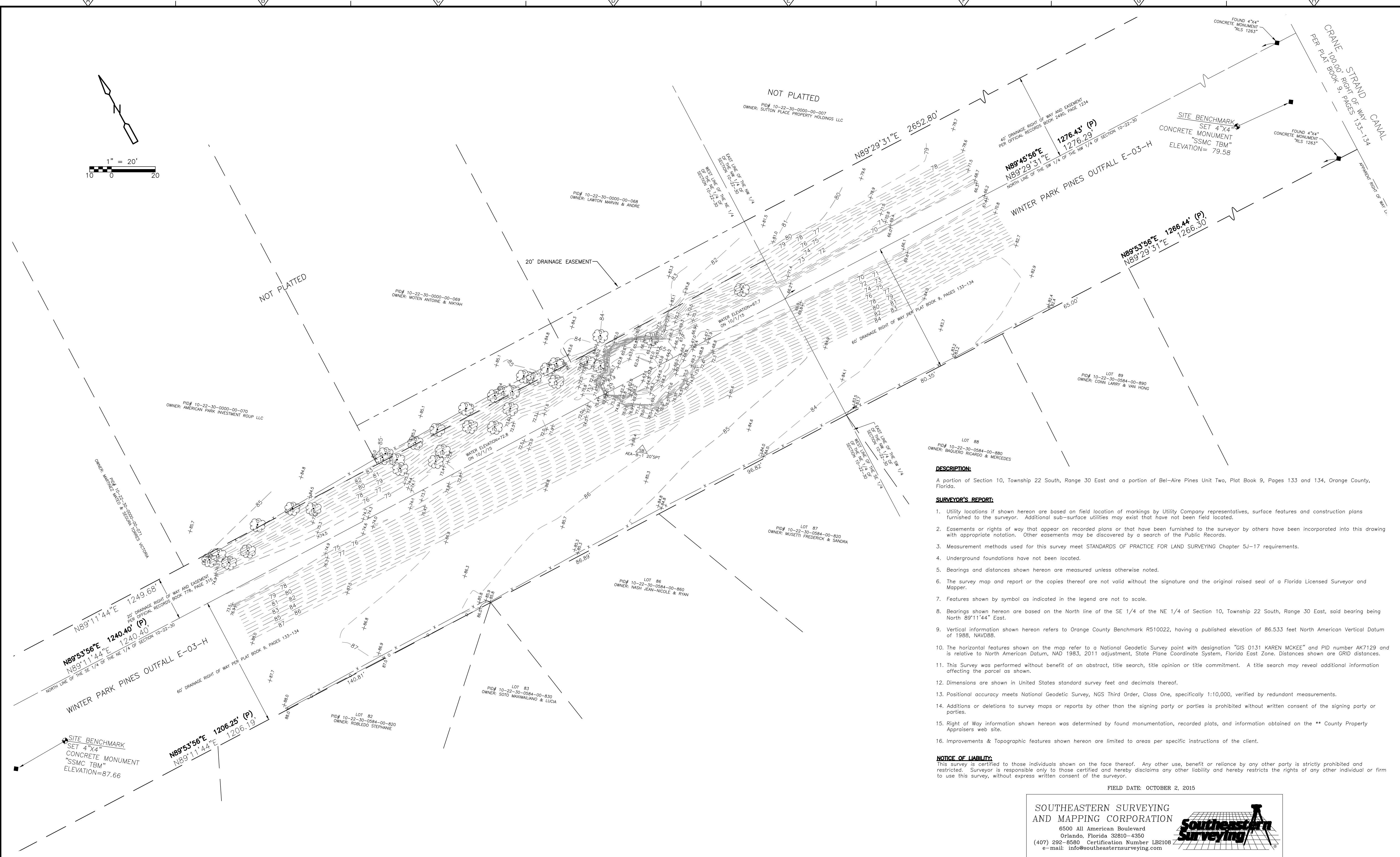
DESIGNED BY: J. WILLIAMS	 101 Southhill Lane, Suite 200 Maitland, FL 32751 Tel: (407) 660-2552 FL COA No. EB-0000020
DRAWN BY: P. ANDUZE	
SHEET CHK'D BY: J. HEALY	
CROSS CHK'D BY: J. WITTIG	
APPROVED BY: J. WILLIAMS	
DATE: NOVEMBER 2018	

ORANGE COUNTY, FLORIDA
STORMWATER MANAGEMENT DIVISION
WINTER PARK PINES OUTFALL CANAL
E-03-H IMPROVEMENTS

GENERAL NOTES, LEGEND AND
SUMMARY OF PAY ITEMS

DATE: JANE M WILLIAMS PE NO. 64088
PROJECT NO. 6059-110784 FILE NAME: G002STPL.DWG
SHEET NO. G-2

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DESCRIPTION:

A portion of Section 10, Township 22 South, Range 30 East and a portion of Bel-Aire Pines Unit Two, Plat Book 9, Pages 133 and 134, Orange County, Florida.

SURVEYOR'S REPORT:

- Utility locations if shown hereon are based on field location of markings by Utility Company representatives, surface features and construction plans furnished to the surveyor. Additional sub-surface utilities may exist that have not been field located.
- Easements or rights of way that appear on recorded plans or that have been furnished to the surveyor by others have been incorporated into this drawing with appropriate notation. Other easements may be discovered by a search of the Public Records.
- Measurement methods used for this survey meet STANDARDS OF PRACTICE FOR LAND SURVEYING Chapter 5J-17 requirements.
- Underground foundations have not been located.
- Bearings and distances shown hereon are measured unless otherwise noted.
- The survey map and report or the copies thereof are not valid without the signature and the original raised seal of a Florida Licensed Surveyor and Mapper.
- Features shown by symbol as indicated in the legend are not to scale.
- Bearings shown hereon are based on the North line of the SE 1/4 of the NE 1/4 of Section 10, Township 22 South, Range 30 East, said bearing being North 89°11'44" East.
- Vertical information shown hereon refers to Orange County Benchmark R510022, having a published elevation of 86.533 feet North American Vertical Datum of 1988, NAVD88.
- The horizontal features shown on the map refer to a National Geodetic Survey point with designation "GIS 0131 KAREN MCKEE" and PID number AK7129 and is relative to North American Datum, NAD 1983, 2011 adjustment, State Plane Coordinate System, Florida East Zone. Distances shown are GRID distances.
- This Survey was performed without benefit of an abstract, title search, title opinion or title commitment. A title search may reveal additional information affecting the parcel as shown.
- Dimensions are shown in United States standard survey feet and decimals thereof.
- Positional accuracy meets National Geodetic Survey, NGS Third Order, Class One, specifically 1:10,000, verified by redundant measurements.
- Additions or deletions to survey maps or reports by other than the signing party or parties is prohibited without written consent of the signing party or parties.
- Right of Way information shown hereon was determined by found monumentation, recorded plats, and information obtained on the ** County Property Appraisers web site.
- Improvements & Topographic features shown hereon are limited to areas per specific instructions of the client.

NOTICE OF LIABILITY:

This survey is certified to those individuals shown on the face thereof. Any other use, benefit or reliance by any other party is strictly prohibited and restricted. Surveyor is responsible only to those certified and hereby disclaims any other liability and hereby restricts the rights of any other individual or firm to use this survey, without express written consent of the surveyor.

FIELD DATE: OCTOBER 2, 2015

SOUTHEASTERN SURVEYING AND MAPPING CORPORATION
 6500 All American Boulevard
 Orlando, Florida 32810-4350
 (407) 292-6580 Certification Number LB2108
 e-mail: info@southeasternsurveying.com

REV. NO.	DATE	DRWN	CHKD	REMARKS

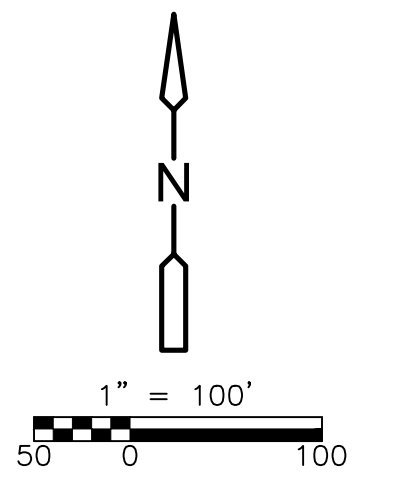
DESIGNED BY: _____
 DRAWN BY: _____
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 APPROVED BY: _____
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CDM Smith
 101 Southhall Lane, Suite 200
 Maitland, FL 32751
 Tel: (407) 660-2552
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ORANGE COUNTY, FLORIDA
 STORMWATER MANAGEMENT DIVISION
**WINTER PARK PINES OUTFALL CANAL
 E-03-H IMPROVEMENTS**

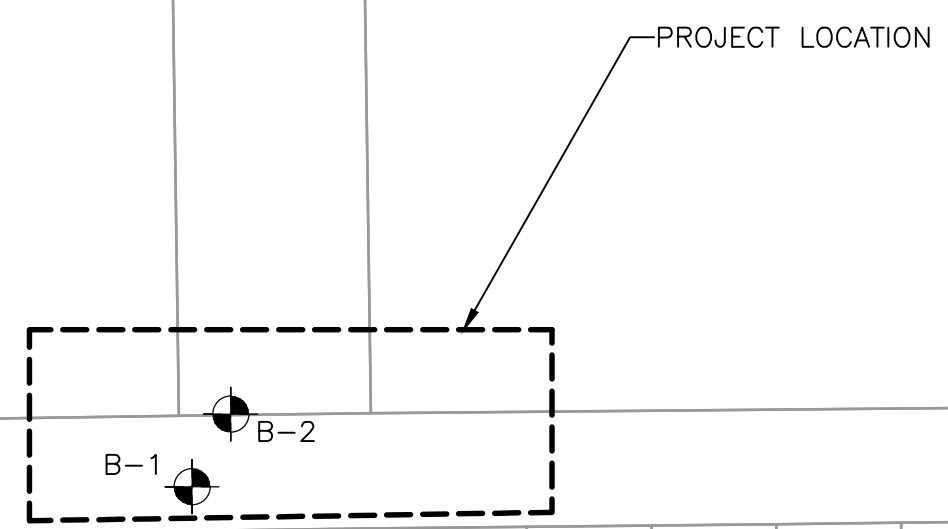
EXISTING CONDITIONS
 PROJECT NO. 6059-110784
 FILE NAME: G003STPL.DWG
 SHEET NO. **G-3**
 CONSTRUCTION PLANS

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SOIL BORING

NOTE:
 FOR GEOTECHNICAL INFORMATION REFER TO REPORT TITLED "GEOTECHNICAL INVESTIGATION REPORT, WINTER PARK PINES OUTFALL CANAL E-03-H, ORANGE COUNTY, FLORIDA, AEA PROJECT NO. 201504-5" PREPARED BY ANTILLIAN ENGINEERING ASSOCIATES, INC., MARCH 3, 2016.



REV. NO.	DATE	DRWN	CHKD	REMARKS

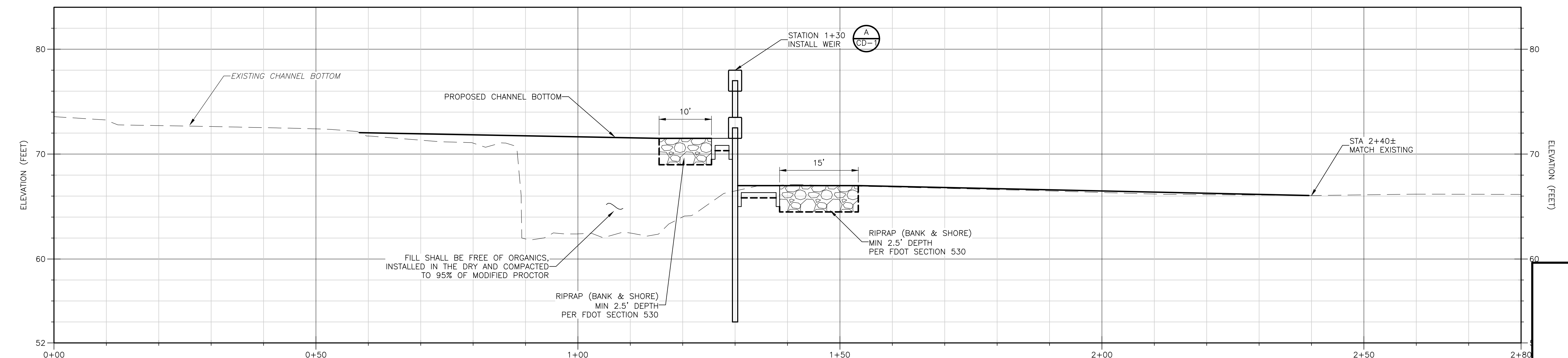
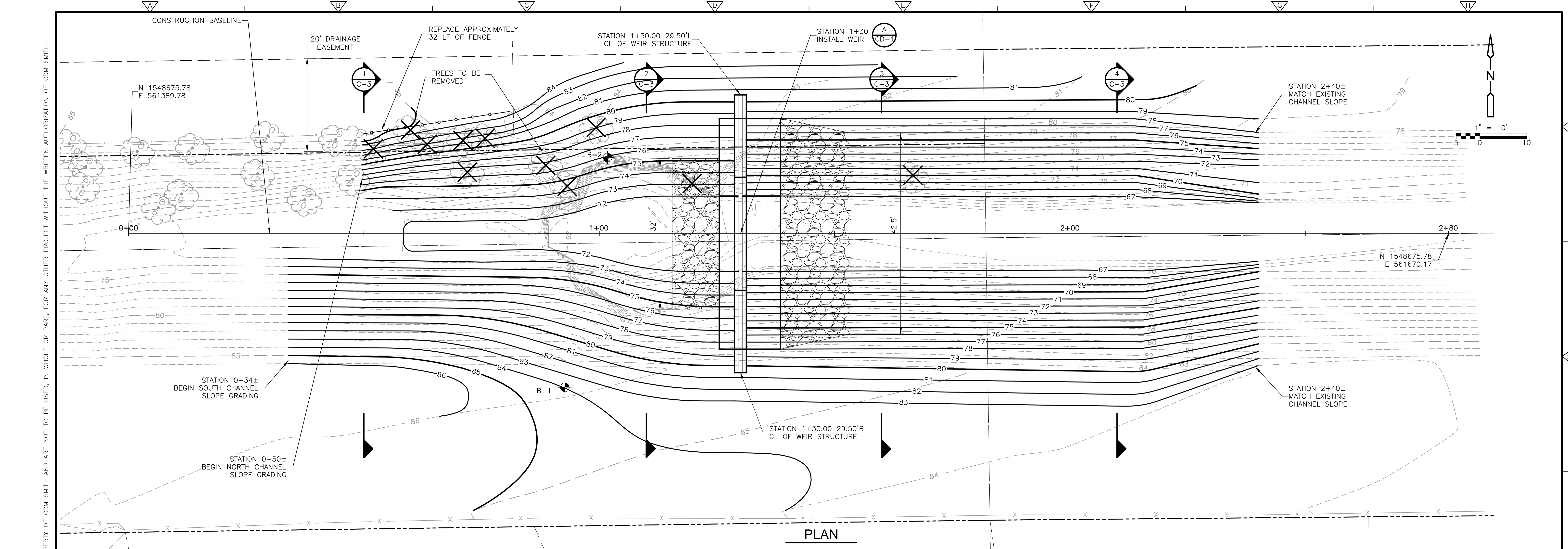
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 APPROVED BY: J. WILLIAMS
 DATE: NOVEMBER 2018

101 Southhall Lane, Suite 200
 Maitland, FL 32751
 Tel: (407) 660-2552
 FL COA No. EB-0000020

ORANGE COUNTY, FLORIDA
 STORMWATER MANAGEMENT DIVISION
**WINTER PARK PINES OUTFALL CANAL
 E-03-H IMPROVEMENTS**

KEY PLAN AND SOIL BORING LOCATIONS

DATE: JANE M WILLIAMS
 PE NO. 64088
 PROJECT NO. 6059-110784
 FILE NAME: C001STPP.DWG
 SHEET NO.
C-1



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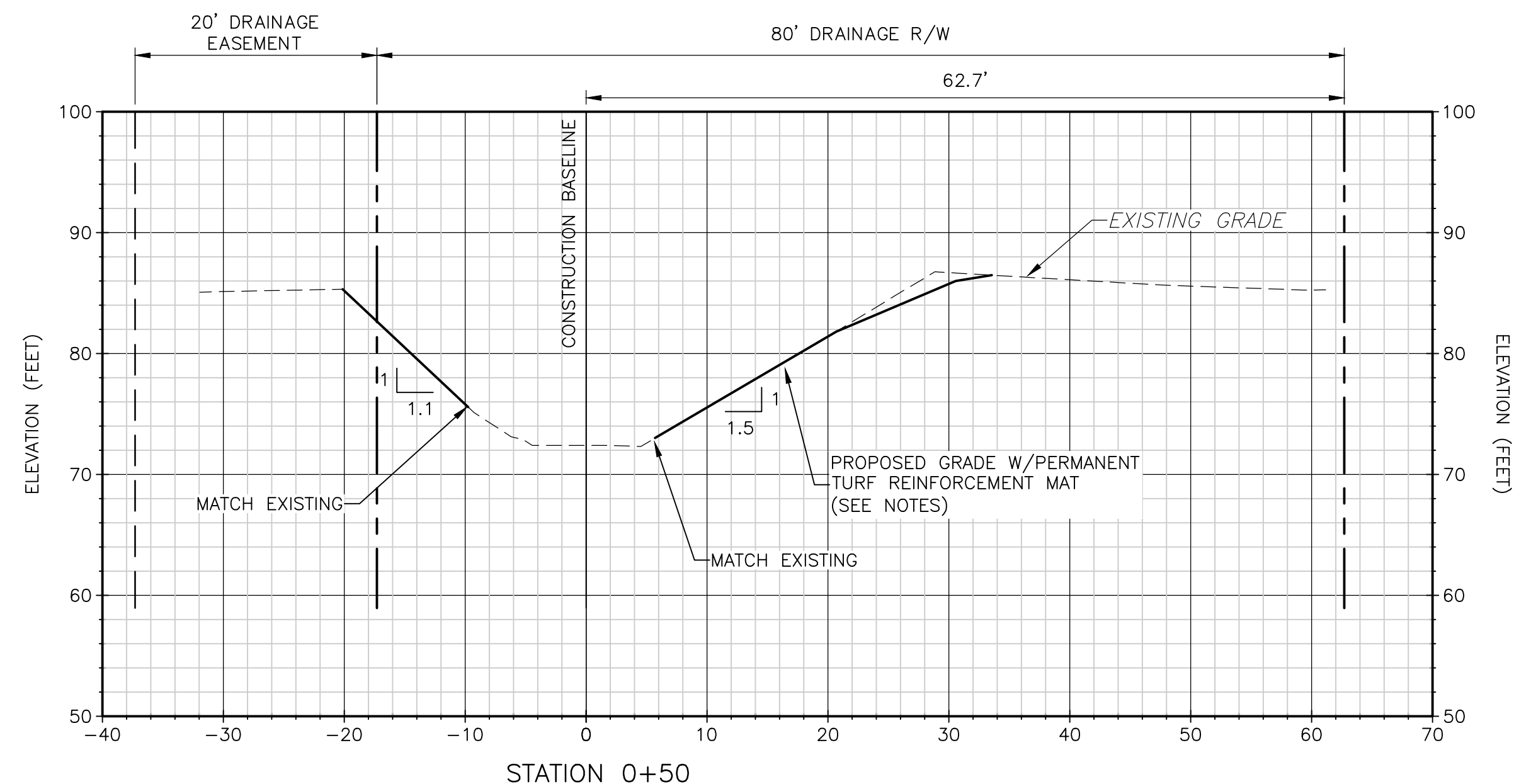


ORANGE COUNTY, FLORIDA
 STORMWATER MANAGEMENT DIVISION
 WINTER PARK PINES OUTFALL CANAL
 E-03-H IMPROVEMENTS

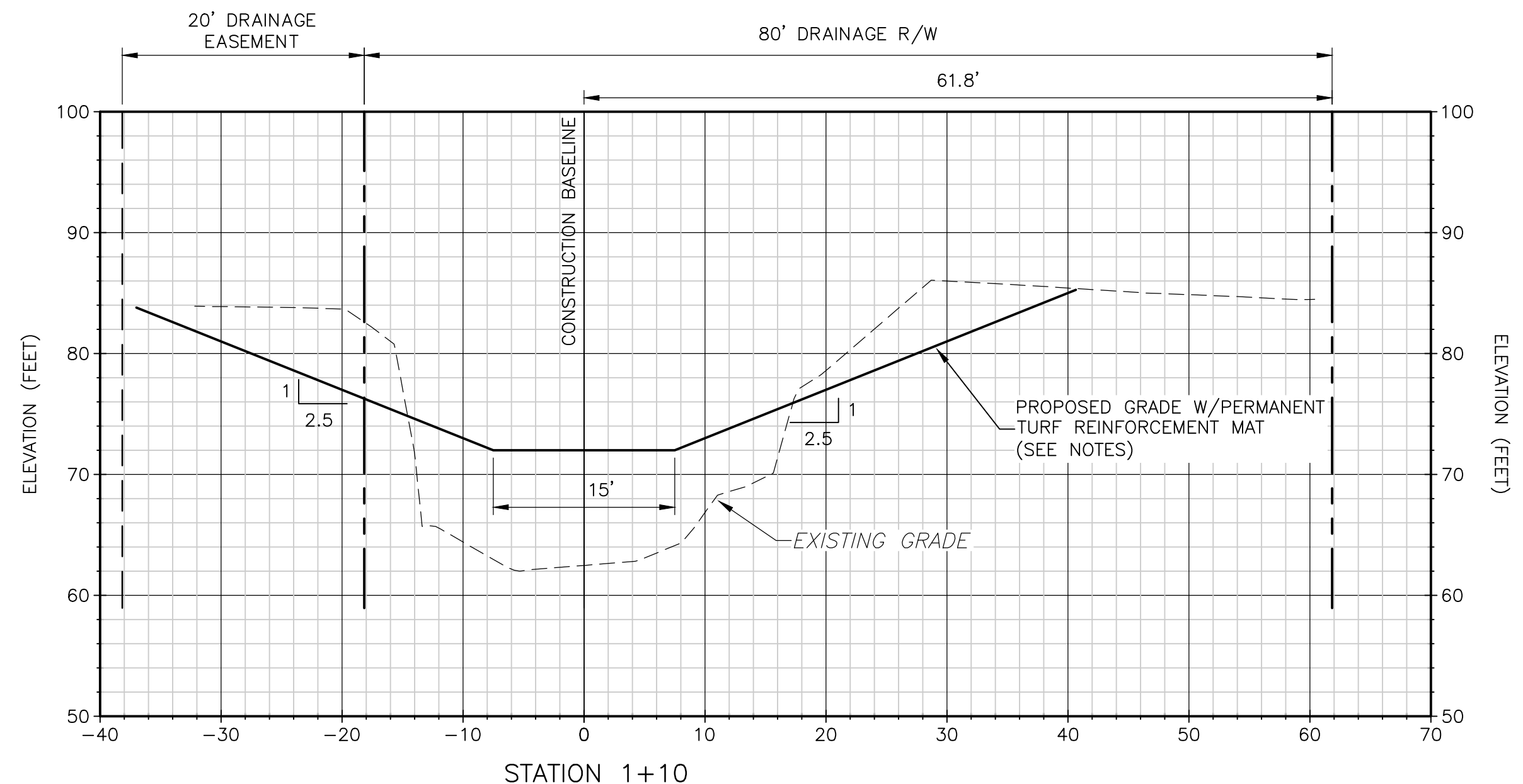
DATE: JANE M WILLIAMS
 PE NO. 64088
 PROJECT NO. 6059-110784
 FILE NAME: C002STPP.DWG
 SHEET NO. C-2

PLAN AND PROFILE
 CONSTRUCTION PLANS

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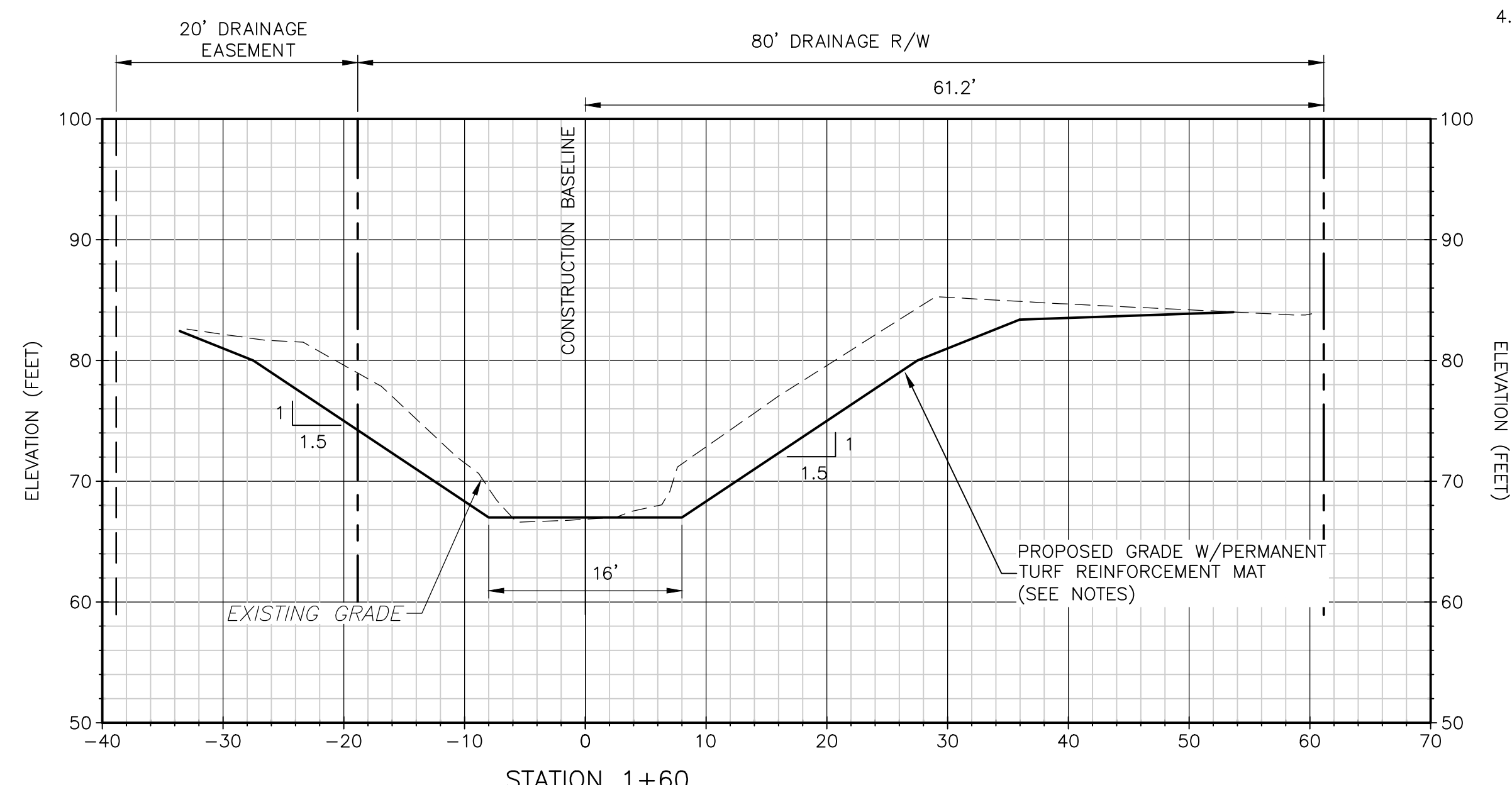


SECTION 1
1"=10'

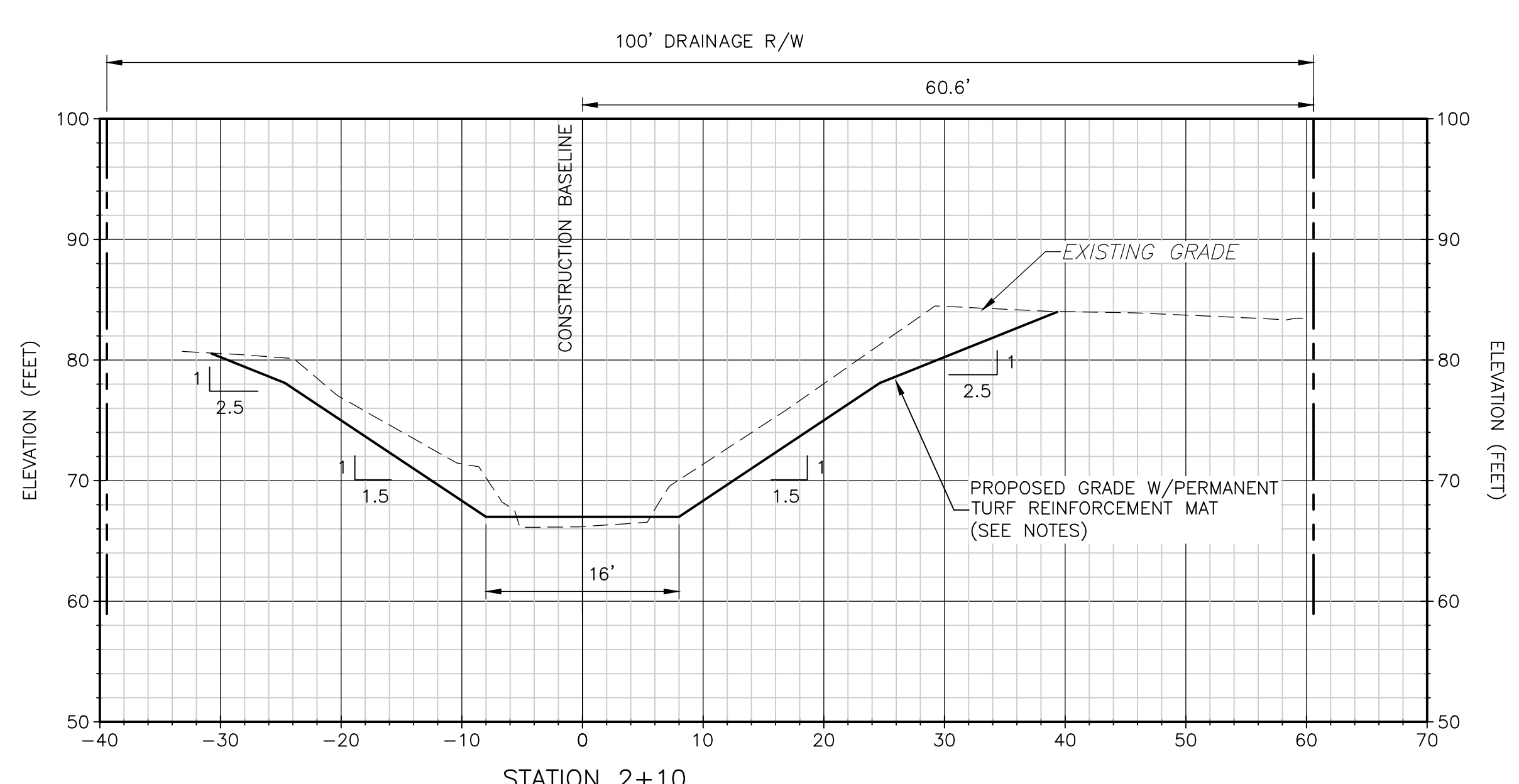


SECTION 2
1"=10'

- NOTES:
1. INSTALL PERMANENT TURF REINFORCEMENT MATTING ON ALL NEW GRADED AREAS.
 2. PERMANENT TURF REINFORCEMENT MAT SHALL BE NORTH AMERICAN GREEN C350 OR APPROVED EQUAL.
 3. PERMANENT TURF REINFORCEMENT MAT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS INCLUDING BUT NOT LIMITED TO ANCHORING, STAPLE SPACING, AND SEAM OVERLAP. SECURE MAT WITH 12 INCH TWIST ANCHORS, MINIMUM 3 PER SQUARE YARD OR APPROVED EQUAL.
 4. STAKED SOD SHALL BE INSTALLED OVER PERMANENT TURF REINFORCEMENT MAT.



SECTION 3
1"=10'



SECTION 4
1"=10'

REV. NO.	DATE	DRWN	CHKD	REMARKS

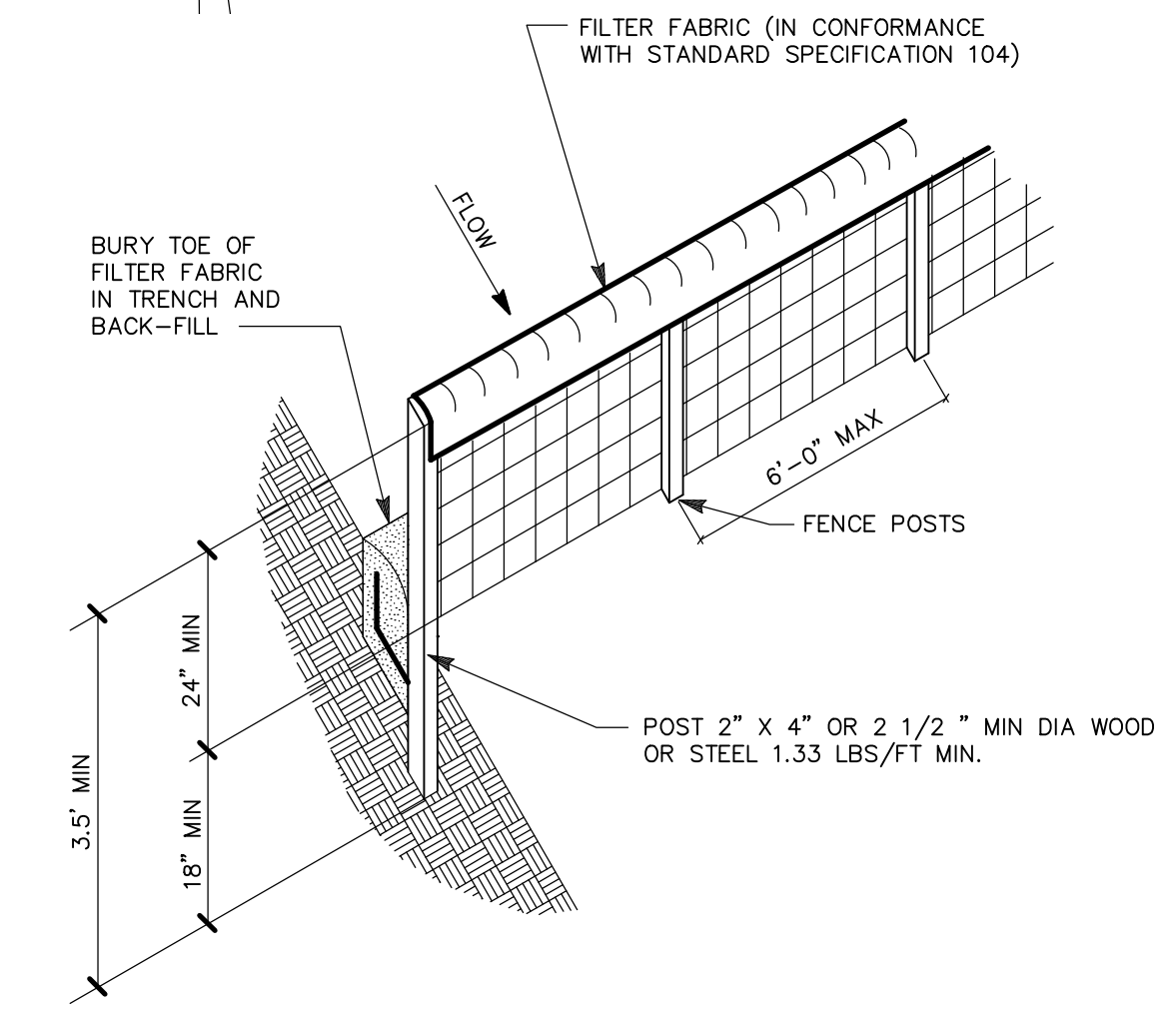
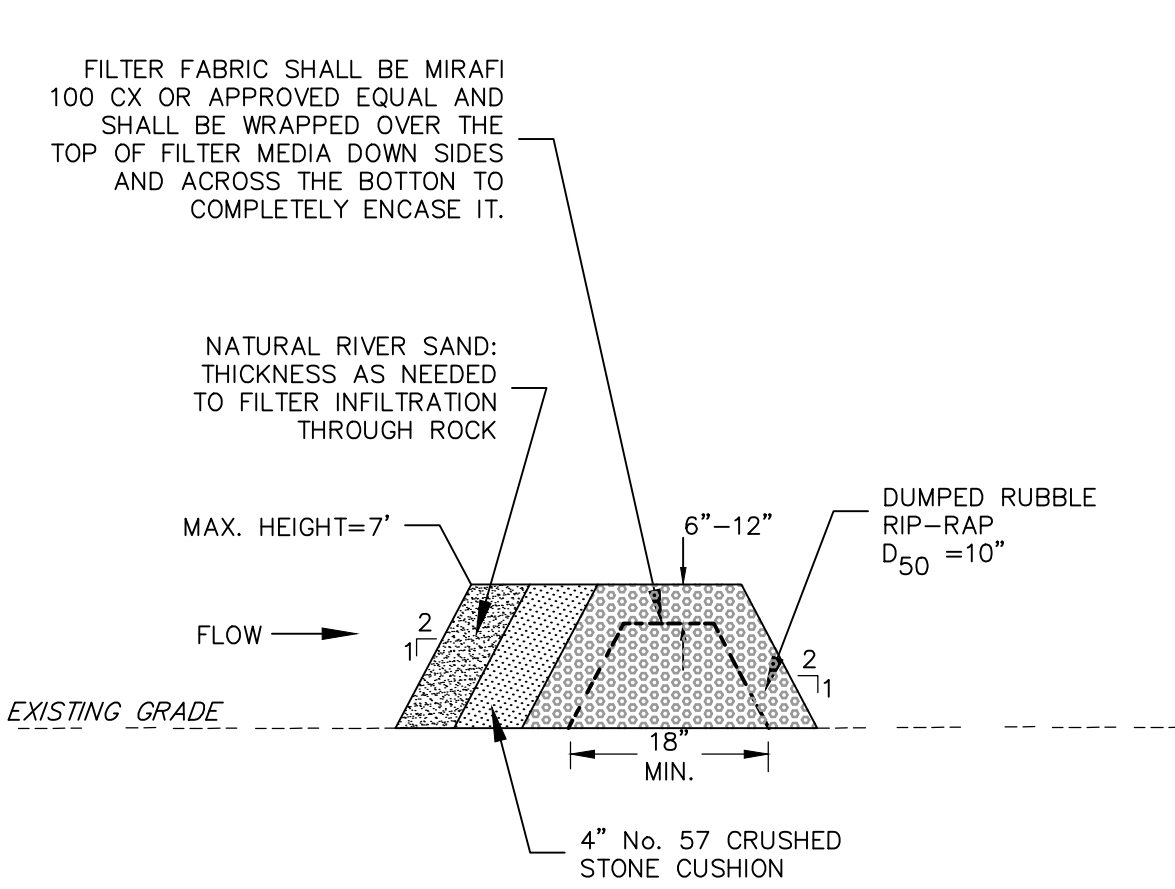
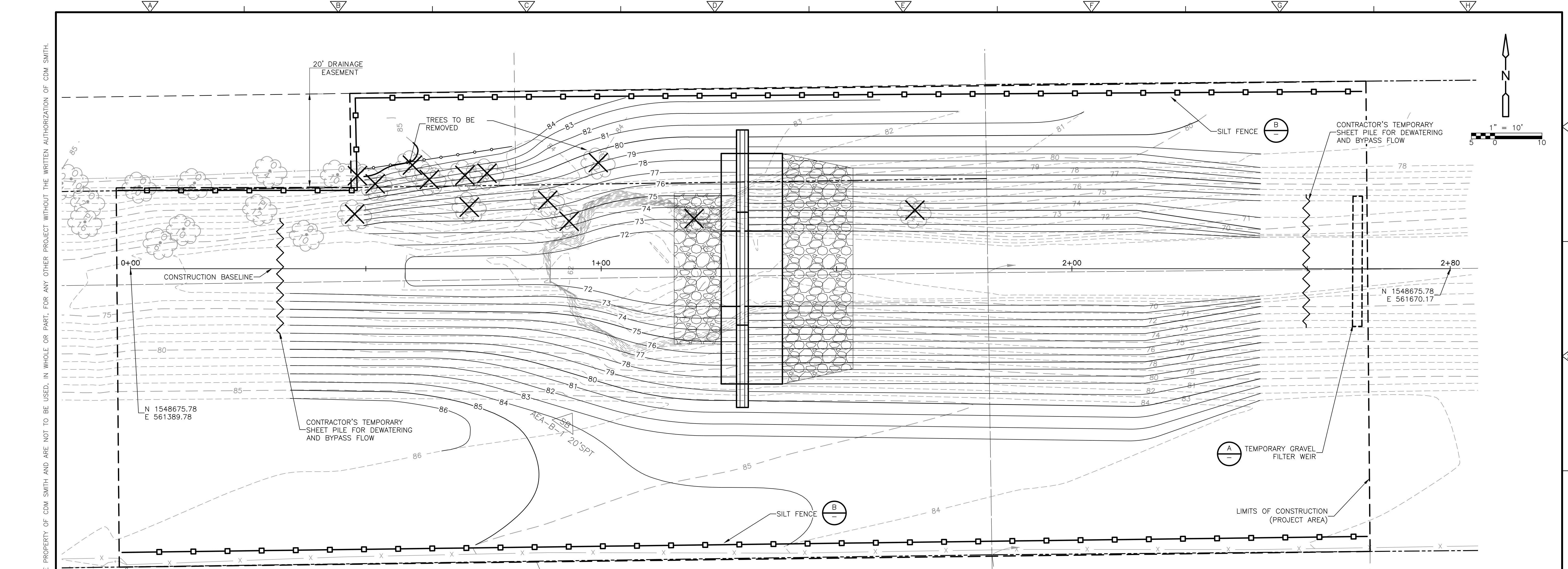
DESIGNED BY: J. WILLIAMS
 DRAWN BY: P. ANDUZE
 SHEET CHK'D BY: J. HEALY
 CROSS CHK'D BY: J. WITTIG
 APPROVED BY: J. WILLIAMS
 DATE: NOVEMBER 2018



ORANGE COUNTY, FLORIDA
 STORMWATER MANAGEMENT DIVISION
 WINTER PARK PINES OUTFALL CANAL
 E-03-H IMPROVEMENTS

CROSS SECTIONS
 SHEET NO. C-3

DATE: JANE M WILLIAMS
 PE NO. 64088
 PROJECT NO. 6059-110784
 FILE NAME: C003STXS.DWG



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REV. NO.	DATE	DRWN	CHKD	REMARKS

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 DATE: NOVEMBER 2018

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 FL COA No. EB-0000020

ORANGE COUNTY, FLORIDA
 STORMWATER MANAGEMENT DIVISION
 WINTER PARK PINES OUTFALL CANAL
 E-03-H IMPROVEMENTS

EROSION CONTROL PLAN
 DATE: JANE M WILLIAMS
 PE NO. 64088
 PROJECT NO. 6059-110784
 FILE NAME: C004ECPL.DWG
 SHEET NO. C-4

CONSTRUCTION PLANS

THE CONTRACTOR IS RESPONSIBLE FOR APPROVING AND IMPLEMENTING THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE COMPLETE AND FINAL SWPPP SHALL INCLUDE THE SITE PLAN, EROSION CONTROL PLAN, A NARRATIVE DESCRIPTION, PROJECT NOTES, CONTACT INFORMATION AND SWPPP COMPLIANCE AGREEMENTS FOR ALL CONTRACTORS AND SUBCONTRACTORS. THE CONTRACTOR SHOULD MODIFY THIS SWPPP THROUGHOUT CONSTRUCTION AS SITE CONDITIONS CHANGE.

THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE RESPONSIBLE PARTY OR SUBCONTRACTOR ACCOUNTABLE FOR IMPLEMENTING EACH MEASURE DESCRIBED IN THE SWPPP AND DELEGATING SWPPP RESPONSIBILITIES. THE CONTRACTOR MUST PREPARE AND SIGN THE FOLLOWING CERTIFICATION: "I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND, AND SHALL COMPLY WITH, THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER." ALL SUBCONTRACTORS ARE REQUIRED TO SIGN A COPY OF THE CERTIFICATION AND ALL CERTIFICATIONS ARE TO BE HELD BY THE CONTRACTOR AS PART OF THE COMPLETE SWPPP.

THE CONTRACTOR SHALL APPROVE THIS STORMWATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE GENERAL REQUIREMENTS AND/OR ANY SPECIAL CONDITIONS OF ALL PERMITS WHICH AUTHORIZE THE CONSTRUCTION OF THE PROJECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING, MONITORING AND MODIFYING THE SWPPP FOR CONSTRUCTION ACTIVITIES TO MEET CHANGING PROJECT SITE CONDITIONS.

1.0 SITE DESCRIPTION:

1.A NATURE OF CONSTRUCTION ACTIVITY:

INSTALLING A SHEET PILE WEIR AND RE-GRADING OF APPROXIMATELY 200 LINEAL FEET OF THE EXISTING CHANNEL.

1.B SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES AS REQUIRED BY CONDITION OF PERMIT. THE CONTRACTOR SHALL IDENTIFY THE SEQUENCE OF MAJOR ACTIVITIES FOR CONTROLLING EROSION AND TRAPPING SEDIMENT.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS PRIOR TO OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED AND APPROVAL TO REMOVE CONTROLS IS PROVIDED BY ENGINEER.

1.C AREA ESTIMATES:

TOTAL SITE AREA: 0.43 ACRES.
 TOTAL AREA TO BE DISTURBED: 0.43 ACRES.

1.D RUNOFF DATA:

APPROXIMATE RUNOFF COEFFICIENTS:
 BEFORE: -
 AFTER: -

SOILS DATA: - "URBAN LAND COMPLEX" DERIVATIVES OF POMELLO FINE SAND AND SMYRNA FINE SAND

OUTFALL INFORMATION:

RECEIVING WATER BODIES: LITTLE ECONLOCKHATCHEE RIVER

1.E SITE MAP:

DRAINAGE PATTERNS:

* APPROXIMATE SLOPES: THE SITE GRADES AND SLOPES ARE PRESENTED IN THE PLAN SHEETS.

AREAS OF SOIL DISTURBANCE: CULVERT REPLACEMENT AREAS INCLUDING APPROXIMATELY 20 FEET UPSTREAM AND DOWNSTREAM WITHIN THE CHANNEL, SEE PLANS AND CROSS SECTIONS.

* AREAS NOT TO BE DISTURBED: AREAS OUTSIDE LIMITS OF CONSTRUCTION.

AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE REQUIRED FOR AREAS OF TEMPORARY SOIL DISTURBANCE. PERMANENT STABILIZATION IS SHOWN ON PLANS.

2.0 CONTROLS

2.A EROSION AND SEDIMENT CONTROLS:

THE CONTRACTOR SHALL REVIEW AND APPROVE THIS PLAN TO MANAGE THE STORMWATER RUNOFF TO MINIMIZE EROSION AND TRANSPORT OF SEDIMENTS. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

ABSOLUTELY NO WORK WILL BE ALLOWED WITHIN ANY CONSERVATION AREA, BUFFER AREA, MITIGATION AREA OR DESIGNATED WETLAND AREA, UNLESS OTHERWISE SPECIFICALLY DESCRIBED BY THE CONSTRUCTION PLANS AND GRANTED BY PERMIT FROM GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THE PROJECT.

PRIOR TO CLEARING AND GRUBBING, THE LIMITS OF CONSTRUCTION SHALL BE CLEARLY MARKED TO PROTECT NATURAL AREAS FROM ENCROACHMENT OF CONSTRUCTION ACTIVITIES.

ALL FILL EMBANKMENT AND GRADED AREAS SHALL BE PROTECTED AGAINST EROSION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF EMBANKMENTS AND SHALL REPLACE ANY PORTION, WHICH IN THE OPINION OF THE ENGINEER, HAS BECOME DISPLACED DUE TO EROSION OR DUE TO CARELESSNESS OR NEGLIGENCE ON THE PART OF THE CONTRACTOR.

2.A.1 STABILIZATION PRACTICES:

THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

- * ARTIFICIAL COVERINGS AS REQUIRED.
- * SEED AND MULCH, AND SOD IN ACCORDANCE WITH PLANS.

PERMANENT:

- * SOD IN ACCORDANCE WITH PLANS.
- * EROSION CONTROL MATTING
- * RIPRAP

2.A.2 STRUCTURAL PRACTICES:

THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

- * SILT FENCE IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS, SECTION 104.

* SANDBAGS TO CONTROL EROSION AND TRAP SILT.

* SEDIMENT BASIN: TEMPORARY STAGING AREAS TO INCLUDE TEMPORARY SEDIMENTATION BASINS.

* STORMWATER CONVEYANCE: STABILIZED CHANNEL TO CONVEY RUNOFF AND CONTROL VELOCITIES

* FLOATING TURBIDITY BARRIER IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS, SECTION 104

* SLOPE CONTROLS SUCH AS EROSION CONTROL BLANKETS OR TACKIFIERS ON STEEP SLOPES.

PERMANENT:

- * SOD
- * RIPRAP

2.B STORMWATER MANAGEMENT:

THE FACILITIES HAVE BEEN PERMITTED BY THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- * PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
- * DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- * DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2 OFFSITE VEHICLE TRACKING & DUST CONTROL:

THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- * COVERING LOADED HAUL TRUCKS WITH TARPULINS.
- * REMOVING EXCESS DIRT FROM ROADS DAILY.
- * STABILIZING CONSTRUCTION ENTRANCES.

* USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS, IF APPLICABLE.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE AND DISPOSAL OF THESE SUBSTANCES.

2.C.6 STATE AND LOCAL PLANS AND PERMITS TO BE OBTAINED:

* THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, PERMITTING AND OPERATION OF AN ADEQUATE DEWATERING SYSTEM TO DEWATER EXCAVATIONS FOR CONSTRUCTION IF REQUIRED.

3.0 MAINTENANCE

THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL, AT A MINIMUM, COMPLY WITH THE FOLLOWING:

- * SILT FENCE: THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 6 MONTH INTERVALS. ANY REPAIRS SHOULD BE MADE IMMEDIATELY AND SEDIMENT REMOVED WHEN IT REACHES A MAXIMUM HEIGHT 1/2 THE BARRIER HEIGHT.
- * SYNTHETIC BALES OR BALE TYPE BARRIERS: REMOVE SEDIMENT WHEN IT REACHES 1/2 HEIGHT OF BALES OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS. THE CONTRACTOR SHOULD ANTICIPATE REPLACING BALES ON 3-MONTH INTERVALS. NATURAL AND STRAW BALES WILL NOT BE ALLOWED.
- * SEEDED OR SODDED AREAS THAT WERE WASHED OUT DUE TO STORMWATER SHALL BE REPLACED IMMEDIATELY OR OTHERWISE STABILIZED.
- * CONSTRUCTION ENTRANCE: MAINTENANCE SHALL BE PERFORMED ON THE ROCK CONSTRUCTION DRIVEWAYS WHEN ANY VOID SPACES ARE FULL OF SEDIMENT.
- * ALL OTHER BMPS: REPAIR IMMEDIATELY FOLLOWING DAMAGE OR DISPLACEMENT.

4.0 INSPECTIONS:

THE PERMITEE SHALL BE RESPONSIBLE FOR THE FUNCTIONALITY OF ALL CONTROL MEASURES IN ACCORDANCE WITH THE INSPECTION SCHEDULE OUTLINED BELOW. THE PURPOSE OF SUCH INSPECTIONS WILL BE TO DETERMINE THE OVERALL EFFECTIVENESS OF THE CONTROL PLAN AND THE POSSIBLE NEED FOR ADDITIONAL CONTROL MEASURES.

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS 0.50 INCHES OR GREATER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

- * POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- * POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM SEWER SYSTEMS.
- * DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- * AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- * STRUCTURAL CONTROLS.
- * STORMWATER MANAGEMENT SYSTEMS.
- * LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

INSPECTIONS SHALL BE RECORDED ON THE FDEP SWPPP INSPECTION FORM AND KEPT ON FILE WITH THE CONTRACTOR AS PART OF THE COMPLETE SWPPP.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER. FOLLOWING FINAL GRADING AND SODDING ACTIVITIES, CONTRACTOR SHALL INSPECT AND REMOVE ANY ACCUMULATED SEDIMENTS FROM EXISTING AND NEW STORMWATER STRUCTURES AND PIPES.

5.0 NON-STORMWATER DISCHARGES:

THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER NOT INDICATED ON THE CONSTRUCTION DRAWINGS, ALL CONSTRUCTION ACTIVITIES SHALL STOP, AND THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD FOR FURTHER INSTRUCTIONS.

NON-STORMWATER DISCHARGES FOR THIS PROJECT ARE EXPECTED TO INCLUDE UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION), PAVEMENT WASH WATER (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS SUBSTANCES HAVE OCCURRED) AND ANY WATER USED FOR DUST CONTROL. TURBID AND OTHER NON-STORMWATER DISCHARGES SHALL BE TREATED SO AS TO NOT ALLOW A DISCHARGE OF POLLUTED STORMWATER. APPROPRIATE TREATMENT MAY INCLUDE TURBIDITY CONTROLS, SETTLING PONDS, THE PROPER USE OF FLOCCULATING AGENTS, OR OTHER APPROPRIATE MEANS.

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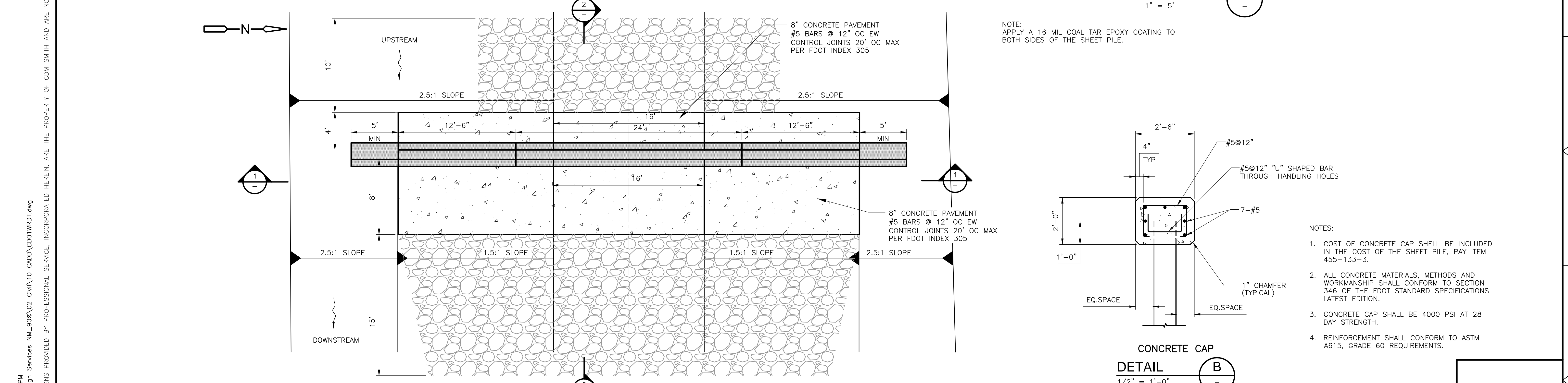
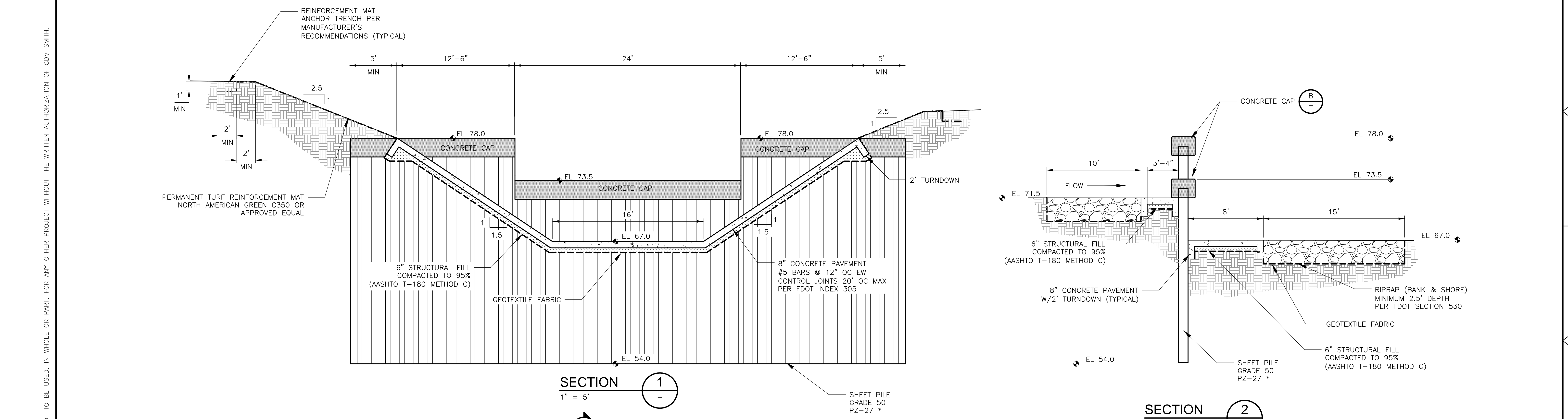
DESIGNED BY: J. WILLIAMS	 <p>101 Southhall Lane, Suite 200 Maitland, FL 32751 Tel: (407) 660-2552 FL COA No. EB-0000020</p>
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ORANGE COUNTY, FLORIDA
 STORMWATER MANAGEMENT DIVISION
 WINTER PARK PINES OUTFALL CANAL
 E-03-H IMPROVEMENTS

STORMWATER POLLUTION PREVENTION PLAN

DATE: JANE M WILLIAMS JAN NO. 64088
PROJECT NO. 6059-110784 FILE NAME: CO05SWPL.DWG
SHEET NO. C-5

A B C D E F G H



NOTE:
APPLY A 16 MIL COAL TAR EPOXY COATING TO BOTH SIDES OF THE SHEET PILE.

- NOTES:
- COST OF CONCRETE CAP SHALL BE INCLUDED IN THE COST OF THE SHEET PILE, PAY ITEM 455-133-3.
 - ALL CONCRETE MATERIALS, METHODS AND WORKMANSHIP SHALL CONFORM TO SECTION 346 OF THE FDOT STANDARD SPECIFICATIONS LATEST EDITION.
 - CONCRETE CAP SHALL BE 4000 PSI AT 28 DAY STRENGTH.
 - REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60 REQUIREMENTS.

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ORANGE COUNTY, FLORIDA
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 WINTER PARK PINES OUTFALL CANAL
 E-03-H IMPROVEMENTS

WEIR DETAILS
 SHEET NO. CD-1

DATE: JANE M WILLIAMS
 PE NO. 64088
 PROJECT NO. 6059-110784
 FILE NAME: CD01WRDT.DWG