## CONTRACT PLAN COMPONENTS ROADWAY PLANS

# SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT

# CONTRACT PLANS

FEMA EROSION PROJECTS DELEON ST. AND SWEETWATER CREEK

PUBLIC WORKS DIRECTOR:	JE	AN JREIJ, P.E.	
COUNTY ENGINEER:	Al	NTHONY NELSON, P.E.	
COUNTY COMMISSIONER- DISTRICT	1: BC	OB DALLARI	
COUNTY COMMISSIONER- DISTRICT	2: JA	Y ZEMBOWER (VICE CHAIRM	AN)
COUNTY COMMISSIONER- DISTRICT	3: LE	E CONSTANTINE	
COUNTY COMMISSIONER- DISTRICT	4: Al	MY LOCKHART (CHAIRMAN)	
COUNTY COMMISSIONER- DISTRICT	5: Al	NDRIA HERR	

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## GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY2024-25 Standard Specifications for Road and Bridge Construction at the following website: https://www.fdot.gov/programmanagement/Implemented/SpecBooks

## GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2024-25 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

KEY	SHEET REVISIONS
DATE	DESCRIPTION

CIP NO. 02107077

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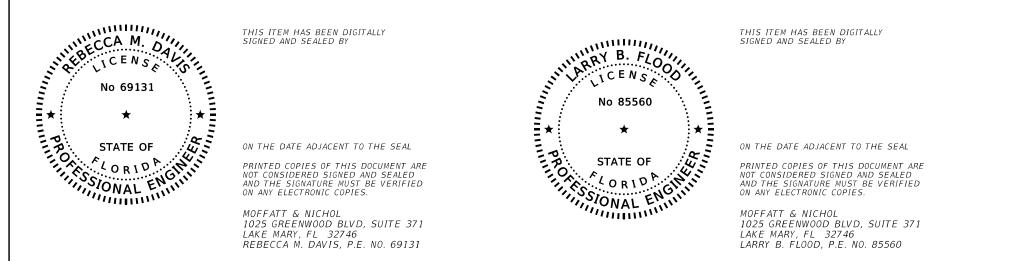
PROJECT MANAGER: JEDIOUS AGGREY

CAS (436) Fern Park

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PROJECT LOCATIO	DN .		1 100
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SHOP DRAWINGS TO BE SUBMITTED TO:			
ADAM CROUCH P.E. 1025 GREENWOOD BLVD. SUITE 371 LAKE MARY, FL 32746			
PLANS PREPARED BY:			CTONED A
moffatt & nichol			11 010
1025 GREENWOOD BLVD. SUITE 371 LAKE MARY, FL 32746 (407) 562-2030			
VENDOR #: F951951343001 CERTIFICATE OF AUTHORIZATION	#: 4877		1 I I I I I I I
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NOTE: THE SCALE OF THESE PLA HAVE CHANGED DUE TO REPROD			
ENGINEER OF RECORD: <u>LARRY B.</u> P.E. NO.: <u>85560</u>	FLOOD, P.E.	<u> </u>	
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THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

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DATE	DESCRIPTION	DATE	DESCRIPTION		SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION
					ENGLINE ERING DIVISION
				moffatt & nichol	
				ENGINEER OF RECORD: LARRY B FLOOD, P.E. FL REGISTRATION NO 85560	DELEON ST. AND SWEETWATER CREEK

SIGNATURE SHEET	SHEET NO.
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	SUMMARY OF PAY ITEMS		[]	
PAY ITEM NUMBER	DESCRIPTION	UNIT	PLAN QUANITY	FINAL QUANTITY
0101-001-000	MOBILIZATION	LS	1.000	
0102-001-000	MAINTENANCE OF TRAFFIC	LS	1.000	
0104-010-003	SEDIMENT BARRIER	LF	2412.000	
0104-012-000	STAKED TURBIDITY BARRIER - NYLON REINFORCED PVC	LF	1000.000	
0104-018-000	INLET PROTECTION SYSTEM	EA	6.000	
0110-001-001	CLEARING & GRUBBING	LS	1.000	
0110-004-010	REMOVAL OF EXISTING CONCRETE	SY	365.000	
0120-001-000	REGULAR EXCAVTION	СҮ	6028.000	
0120-006-000	EMBANKMENT	СҮ	24.000	
0160-004-000	TYPE B STABILIZATION	SY	2044.000	
0285-709-000	OPTIONAL BASE, BASE GROUP 09	SY	1555.000	
0327-070-004	MILLING EXISTING ASPHALT PAVEMENT, 3" AVG DEPTH	SY	2654.000	
0334-001-012	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	ΤN	347.200	
0337-007-081	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC B, FC-12.5, PG 76-22	ΤN	350.800	
0400-002-002	CLASS II CONCRETE, ENDWALLS	СҮ	154.800	
0415-001-006	REINFORCING STEEL, MISCELLANOUS	LB	23199.000	
0425-001-351	INLETS, CURB, TYPE P-5, <10'	EA	4.000	
0430-174-118	CONCRETE PIPE CULVERT, S/CD, CLASS II, 18"	LF	34.000	
0430-174-124	CONCRETE PIPE CULVERT, S/CD, CLASS II, 24"	LF	10.000	
455-133-002	STEEL SHEET PILING, TEMPORARY-CRITICAL	SF	6006.000	
0520-001-010	CONCRETE CURB & GUTTER, TYPE F	LF	1648.000	
0524-001-002	CONCRETE DITCH PAVEMENT, NON REINFORCED, 4"	SY	0.000	
0530-1-6A	GEOWEB WALL	SF	10089.000	
0530-3-4	RUBBLE RIPRAP (DITCH LINING)	ΤN	165.000	
0530-74	BEDDING STONE	ΤN	37.000	
0570-1-1	PERFORMANCE TURF (SEED)	SY	359.000	
0570-1-2	PERFORMANCE TURF (SOD)	SY	1294.000	
0571-1-13	PLASTIC EROSION MAT, TURF REINFORCED MAT, TYPE 3	SY	359.000	
0700-001-111	SINGLE POST SIGN, F&I	EA	1.000	
0700-001-500	SINGLE POST SIGN, REMOVE	ΕA	3.000	
0700-001-600	SINGLE POST SIGN, RELOCATE	EA	3.000	
0706-001-003	RAISED PAVEMENT MARKER, TYPE B	EA	49.000	
0711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	LF	3729.000	
0711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	13.000	
0711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	LF	3263.000	
0909-104	MAINTENANCE OF BY-PASS FLOW/DEWATERING	LS	1.000	

<u>PAY ITEM NOTES:</u>	
GENERAL PAY ITEM	NOTES:
1.	NO SEPARATE PAYMENT WILL BE MAN FABRIC. THE COSTS WILL BE INCLUE ITEMS.
2.	NO SEPARATE PAYMENT WILL BE MAN INCLUDED IN THE UNIT PRICES OF (
0101-001-000	INCLUDES ALL COSTS FOR DOCUMENT PRECONSTRUCTION CONDITIONS ON V PHOTOGRAPHS. INCLUDES ALL COSTS AFFECTED BY THE CONSTRUCTION.
0102-001-000	INCLUDES ALL COSTS FOR PREPARAT AND ALL ITEMS REQUIRED TO SAFEL THE WORK ZONES FOR THE DURATIO FURNISH AND MAINTAIN TEMPORARY CONSTRUCTION. INCLUDES THE COST SITE BY REMOVING ALL CONSTRUCTIO EACH DAY. FOLLOWING CONSTRUCTIO CLEAN AND SWEEP THE WORK ZONE REMOVED.
0104-010-003 & 010	94-012-000 INCLUDE ALL COSTS FOR PREPARATI AND ANY ADDITIONAL EROSION CONT REQUIREMENTS AND SPECIFICATION.
0110-001-001	INCLUDES ALL COSTS FOR REMOVAL EXISTING STRUCTURES IMPACTED B PROTECTION OF TREES TO REMAIN.
0455-133-002	INCLUDES ALL COSTS FOR EMBANKM
0530-1-6A	UNIT IS SQUARE FEET OF WALL FAC COMPENSATION FOR FURNISHING, AS EXCAVATION, FOUNDATION PREPARAT UNSUITABLE MATERIAL, FASTENERS, PLACING MATERIALS, COMPACTION, O MANUFACTURER'S REPRESENTATIVE, TOOLS, SUPPLIES, AND INCIDENTAL
0570-1-1	INCLUDES THE COST TO SEED AND MAT TO THE COUNTY'S SATISFACTION
0909-104	INCLUDES ALL COSTS FOR DEWATER INCLUDES ALL PUMPS, PERMITS, FEL PIPE, HOSE FUEL, AND ANY OTHER I THE WORK AREA.

REVISIONS					SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT	
DATE	DESCRIPTION	DATE	DESCRIPTION		ENGINEERING DIVISION	
				moffatt & nichol		S UN
				ENGINEER OF RECORD: LARRY B FLOOD, P.E. FL REGISTRATION NO. 85560	DELEON ST. AND SWEETWATER CREEK	
jdoerr			2/.	16/2024 9:27:41 AM Default		Q:\ORL\

BE MADE FOR GEOTEXTILE FABRIC OR FILTER INCLUDED IN THE UNIT PRICES OF OTHER PAY

BE MADE FOR NO. 57 STONE. THE COST WILL BE ES OF OTHER PAY ITEMS.

CUMENTING THE EXSITING CONDITIONS, RECORDING L COSTS FOR SECURITY OF THE PROPERTIES

REPARATION OF AN APPROVED TRAFFIC CONTROL PLAN O SAFELY MAINTAIN TRAFFIC THROUGH AND AROUND DURATION OF THE PROJECT. INCLUDES THE COST TO MPORARY RESTROOM FACILITIES TO BE USED DURING HE COST FOR THE CONTRACTOR TO CLEAN THE JOB STRUCTION DEBRIS BEFORE LEAVING THE JOB SITE TRUCTION, THE CONTRACTOR SHALL THOROUGHLY RK ZONES TO ASSURE ALL DEBRIS HAS BEEN

EPARATION OF AN APPROVED EROSION CONTROL PLAN ON CONTROL ITEMS NECESSARY TO MEET ALL ICATIONS FOR EROSION CONTROL.

EMOVAL AND RELOCATION OR REPLACEMENT FOR CTED BY CONSTRUCTION. INCLUDES ALL COSTS FOR

MBANKMENT BEHIND RETAINING WALL.

ALL FACE. UNIT PRICE SHALL CONSTITUTE FULL HING, ASSEMBLING, PLACING GEOWEB WALL, INCLUDING REPARATION, REMOVAL AND DISPOSAL OFF-SITE OF ENERS, GEOGRID, FILTER FABRIC, SELECT BACKFILL, TION, ON-SITE SUPERVISION BY THE TATIVE, AND ALL LABOR, MATERIALS, EQUIPMENT, ENTAL COSTS.

D AND ESTABLISH TURF ABOVE PLASTIC EROSION FACTION.

EWATERING AND BYPASS PUMPING. THE COST ITS, FEES, DRAINS, FILTER SOCKS, WELL POINTS, OTHER ITEMS NECESSARY TO PROPERLY DEWATER

## MMARY OF PAY ITEMS

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R/W (VARIES 45' TO 65') Ç CONST. DELEON ST. R/W LINE R/W LINE -18.8'-19.5' soD MILLING & RESURFACING รงก MATCH EXISTING 0.06 12" TYPE B STABILIZATION LBR 40 - TYPE F CURB & GUTTER TYPICAL SECTION DELEON ST. STA. 14+70.89 TO STA. 18+00.00 NOTE: CONTRACTOR SHOULD ANTICIPATE ENCOUNTERING LIMEROCK BASE DURING THE MILLING OPERATION. THE DISTURBED 1. STA. 32+31.78 TO STA. 33+20.00 LIMEROCK BASE SHALL BE RECOMPACTED BY ROLLING FOR A FIRM, UNYIELDING BASE. THE MILLED PAVEMENT IN THESE AREAS SHALL NOT BE USED AS RAP MATERIAL. SEE PLAN SHEETS FOR LIMITS OF CURB AND EXISTING TRAVEL LANES SHOULDER PAVEMENT 2 GUTTER PLACEMENT. OPTIONAL BASE GROUP 1 MILL EXISTING ASPHALT PAVEMENT (3" DEPTH) AND FRICTION COURSE FC-12.5 (TRAFFIC B) (1  $\frac{1}{2}$ ") TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1  $\frac{1}{2}$ ") AND FRICTION COURSE FC-12.5 (TRAFFIC B)  $(1 \frac{1}{2}")$ 

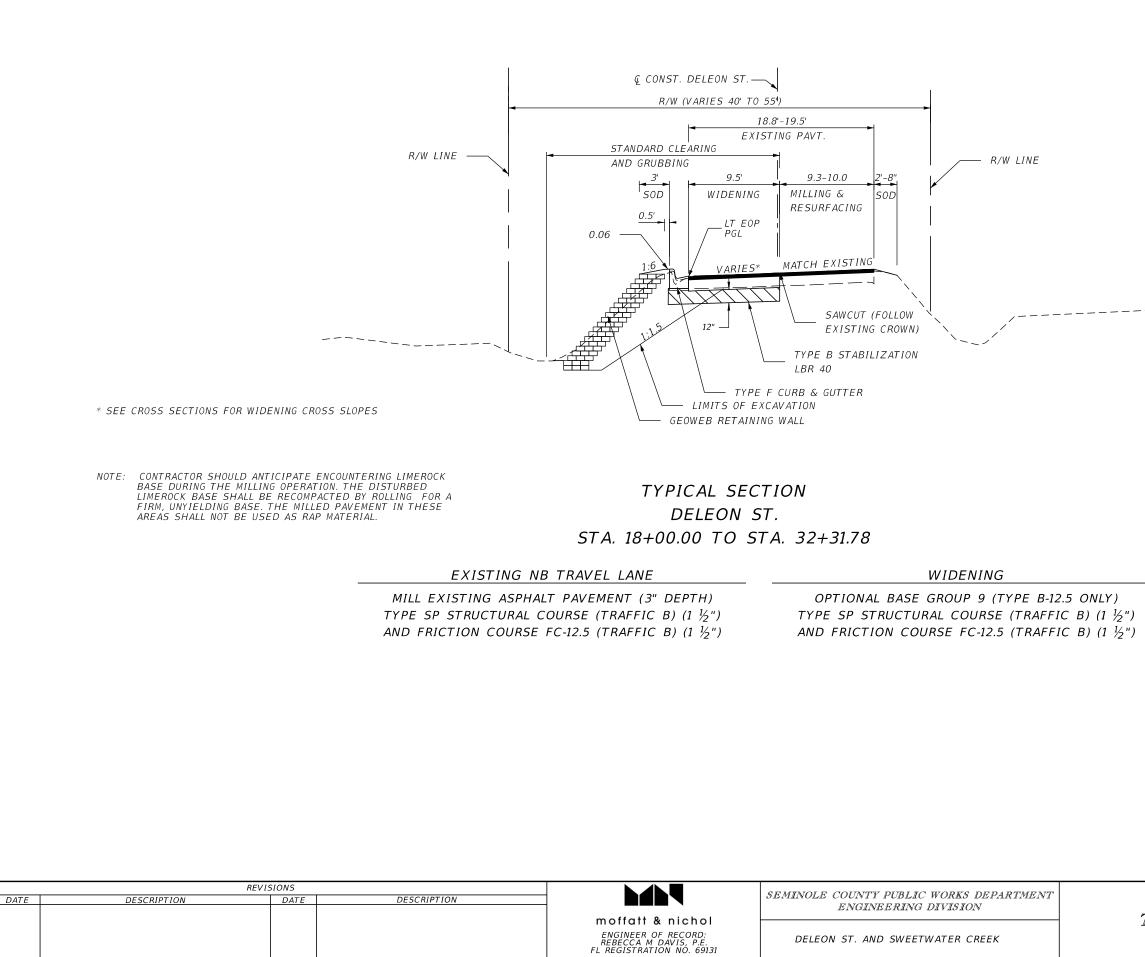
REVISIONS					SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT	
DATE	DESCRIPTION	DATE	DESCRIPTION		ENGINEERING DIVISION	
				moffatt & nichol	13140114313A1140 D1 / 101014	
				ENGINEER OF RECORD: REBECCA M DAVIS, P.E. FL REGISTRATION NO. 69131	DELEON ST. AND SWEETWATER CREEK	

TYPICAL SECTION

SHEET NO.

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# TYPICAL SECTION

NO. 5

SHEET

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# GENERAL NOTES

- 1. GRADES SHOWN ARE FINISHED GRADES
- 2. B.M. DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD88)
- 3. DURING CONSTRUCTION, CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 4. ALL MATERIALS, CONSTRUCTION, INSPECTIONS AND TESTS SHALL, AT A MINIMUM, CONFORM TO FDOT STANDARD SPECIFICATIONS DATED 2024, AND SUPPLEMENTS THERETO, AND TO SPECIAL PROVISIONS FOR THIS PROJECT.
- 5. THE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE LOCATION ONLY AND ARE INTENDED ONLY TO SHOW THE UTILITIES LIKELY TO BE ENCOUNTERED DURING CONSTRUCTION, ALL EXISTING UTILITIES, PUBLIC OR PRIVATE, SHALL BE LOCATED BY THE CONTRACTOR IN AREAS OF CONSTRUCTION AND OWNERS OF SAID MENTIONED UTILITIES NOTIFIED PRIOR TO COMMENCING WORK.

UTILITY/AGENCY OWNERS: COMPANY AT&T DISTRIBUTION CHARTER CENTURYLINK LVL 3 CITY OF LAKE MARY DUKE ENERGY DISTRIBUTION DUKE ENERGY TRANSMISSION FLORIDA PUBLIC UTILITIES SEMINOLE COUNTY PUBLIC WORKS SEMINOLE COUNTY TRAFFIC VERIZON/MCI

CONTACT KIRBY SPENCER JOHN SMITH MICHAEL HUNT DANIELLE KOURY JOHNNY HILL PAUL ZIMMERMAN CHARLES WETZEL TIMOTHY COLE

TELEPHONE NUMBER KS2488@ATT.COM JOHN . SMITCH5@CHARTER . COM MICHAEL . HUNT@LUMEN . COM DKOURY@LAKEMARYFL.COM DEFDISTRIBUTIONGOV@DUKE-ENERGY.COM ( DEFTRANSMISSIONGOV@DUKE - ENERGY . COM JHILL@FPUC.COM PZIMMERMAN@SEMINOLECOUNTYFL.GOV CWETZEL@SEMINOLECOUNTYFL.GOV TIMOTHY .COLE@VERIZON .COM

- 6. IT IS THE RESPONSIBILITY OF THE EXCAVATOR TO COMPLY WITH THE CURRENT STATE OF FLORIDA UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT AND/OR RELATED STATE LAW. THE FOLLOWING INFORMATION IS BEING PROVIDED BY SEMINOLE COUNTY IN AN EFFORT TO ASSIST THE EXCAVATOR BY LISTING UTILITIES THAT MAY PROVIDE SERVICE IN THE APPROXIMATE AREA OF PROPOSED CONSTRUCTION. THE EXCAVATOR SHOULD ASSUME OTHER UTILITIES THAT ARE NOT LISTED MAY PROVIDE SERVICE IN THE APPROXIMATE AREA OF PROPOSED CONSTRUCTION.
- 7. ANY NGVD29 OR NAVD88 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHOULD NOTIFY:

GEODETIC INFORMATION CENTER ATTN: MARK MAINTENANCE SECTION N/CG-162 6001 EXECUTIVE BOULEVARD ROCKVILLE, MARYLAND 20852 TELEPHONE: (301) 443-8319

- 8. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED. THE CONTRACTOR SHOULD NOTIFY THE COUNTY LOCATION SURVEYOR WITHOUT DELAY BY TELEPHONE.
- 9. ALL SURVEY CORNERS INDICATED ON THE PLANS SHALL BE REFERENCED AND CERTIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL CORNERS DESTROYED OR OBLITERATED BY CONSTRUCTION SHALL BE RESET AND SO CERTIFIED BY THE LAND SURVEYOR PRIOR TO COMPLETION OF THE PROJECT. CERTIFIED SKETCHES SHALL BE SUBMITTED TO:

SEMINOLE COUNTY ENGINEERING DIVISION SURVEY SECTION 520 W. LAKE MARY BLVD., SUITE 200 SANFORD, FL 32773

DATE

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- 10. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
- 11. TEMPORARY DRAINAGE SHALL BE PROVIDED DURING CONSTRUCTION TO ELIMINATE ANY FLOODING OF PRIVATE PROPERTY.
- 12. ANY DRAINAGE PROBLEMS, CREATED BY CONSTRUCTION OR EXISTING BEFORE CONSTRUCTION, THAT ARE NOT ALLEVIATED SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEERING DIVISION.
- 13. ALL STORM SEWER LINES AND INLETS SHALL BE CLEARED OF DEBRIS AND ERODED MATERIALS AT LAST STAGES OF CONSTRUCTION.
- 14. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THE CONSTRUCTION WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING PRE-CONSTRUCTION CONDITION, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION TO BE ALLOWED. ANY AREA OUTSIDE THE IMMEDIATE CONSTRUCTION AREA DISTURBED BY THE CONTRACTOR WILL BE SODDED AT THE CONTRACTORS EXPENSE.
- 15. ALL SHOP DRAWING MUST BE APPROVED BY SEMINOLE COUNTY PRIOR TO FABRICATION.
- 16. ONE WEEK PRIOR TO CONSTRUCTION, THE CONTRACTOR IS TO OBTAIN A R/W UTILIZATION PERMIT FROM SEMINOLE COUNTY PUBLIC WORKS. ENGINEERING DIVISION. PERMIT FEE WILL BE WAIVED.
- 17. IRRIGATION LINES DAMAGED DURING CONSTRUCTION ARE TO BE CAPPED IMMEDIATELY AND REPORTED TO THE SEMINOLE COUNTY ENGINEERING INSPECTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE THE DAMAGED IRRIGATION COMPONENTS TO PRE-CONSTRUCTION CONDITION WITH NO ADDITIONAL COMPENSATION PRIOR TO COMPLETION OF THE PROJECT.
- 18. ANY MAILBOX CONFLICTING WITH THE CONSTRUCTION OF THE PROJECT SHALL BE RELOCATED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 110-200. NEW LOCATIONS TO BE COORDINATED WITH LOCAL POST OFFICE.
- 19. ARTESIAN CONDITIONS MAY EXIST WITHIN THE PROJECT LIMITS. SHOULD AN ARTESIAN BE ENCOUNTERED. CONTRACTOR SHALL NOTIFY COUNTY IMMEDIATELY AND BE PREPARED TO REMEDY IF CORRECTIVE ACTIONS ARE REQUIRED.
- 20. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, QUANTITIES, AND DETAILS SHOWN ON THE PLANS, SPECIFICATIONS SPECIAL PROVISIONS, OR OTHER DATA RECEIVED FROM THE COUNTY, AND SHALL NOTIFY THE COUNTY'S REPRESENTATIVE OF ALL ERRORS, OMISSIONS, CONFLICTS, OR DISCREPANCIES FOUND THEREIN. FAILURE TO DISCOVER OR CORRECT ERRORS, CONFLICTS, OR DISCREPANCIES SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR UNSATISFACTORY WORK, FAULTY CONSTRUCTION, IMPROPER OPERATION RESULTING THEREFROM, NOR FROM RECTIFYING SUCH CONDITIONS AT HIS OWN EXPENSE. HE SHALL NOT TAKE ADVANTAGE OF ANY ERRORS OR OMISSIONS.
- 21. THE CONTRACTOR SHALL BE SOLEY RESPONSIBLE FOR THE PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION AS WELL AS TRANSPORTATION OF ERODED MATERIALS OFF-SITE. THE CONTRACTOR IS RESPONSABLE FOR MAINTAINING ALL SEDIMENT CONTROL DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION AS REQUIRED BY THE COUNTY, ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD), AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). AT THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN. THE EROSION CONTROL PLAN SHALL MEET THE REQUIREMENTS ABOVE AND WITHIN FDOT SPECIFICATION 104. THE PLAN SHALL ADDRESS THE INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT SEDIMENT AND EROSION CONTROL DEVICES TO BE USED DURING EACH PHASE OF CONSTRUCTION, INCLUDING TREE REMOVAL, CLEARING AND GRUBBING, HAULING OF EXCAVATED MATERIALS, AND PLACEMENT OF BACKFILL. THE PLAN ALSO SHALL DETAIL THE EROSION CONTOL MEASURES TO BE EMPLOYED AT ALL STOCKPILE AND CONSTRUCTION STAGING AREAS AND SHALL DEFINE THE MAXIMUM LIMITS OF ALL ACTIVE CONSTRUCTION ZONES AND THE MAXIMUM AMOUNT OF TIME EZCH SEGMENT OF THE PROJECT WILL BE UNPROTECTED AGAINST EROSION.

	VISIONS			SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT
DESCRIPTION	DATE	DESCRIPTION		ENGINEERING DIVISION
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			moffatt & nichol	
			ENGINEER OF RECORD: REBECCA M DAVIS, P.E.	DELEON ST. AND SWEETWATER CREEK

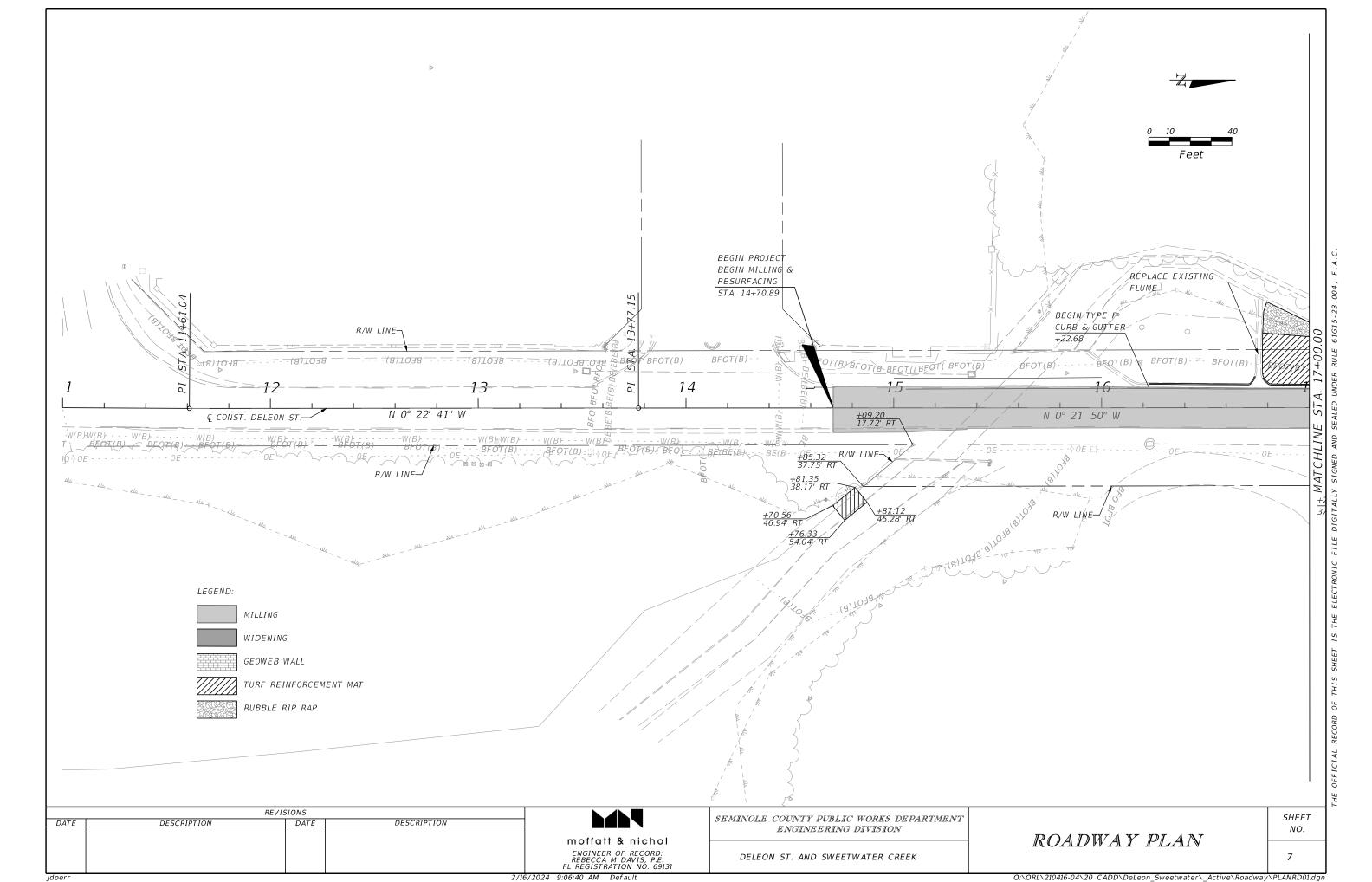
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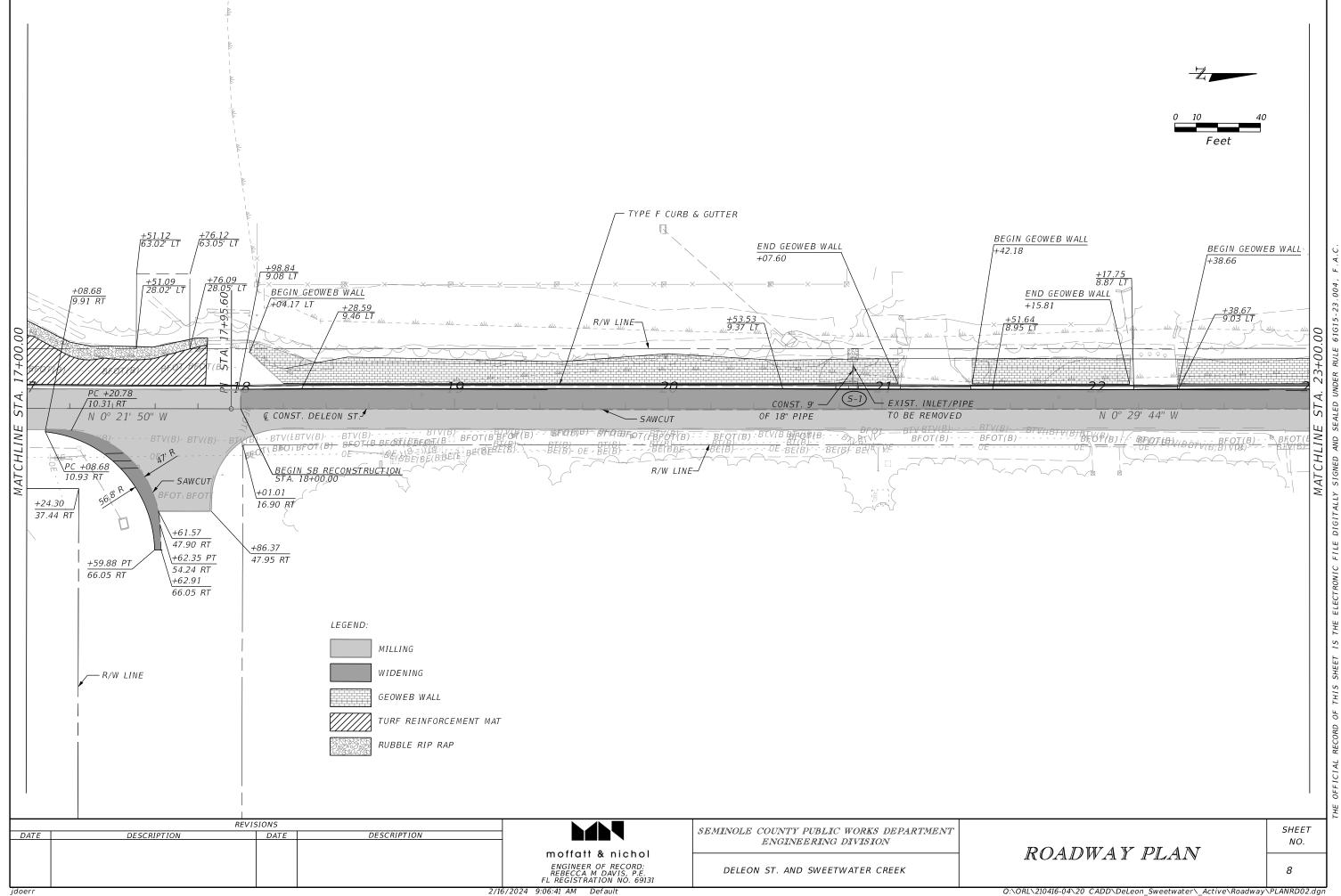
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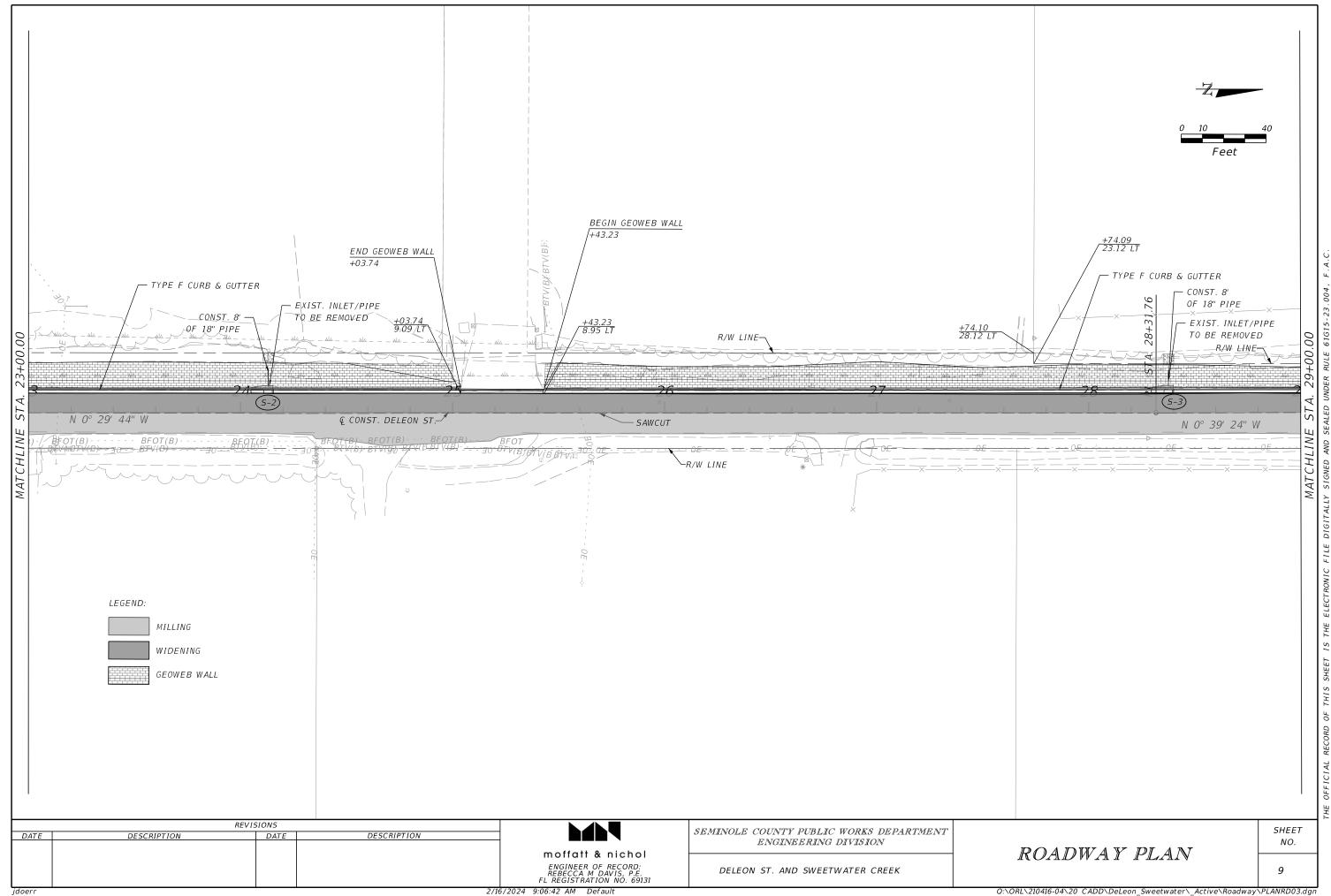
## GENERAL NOTES

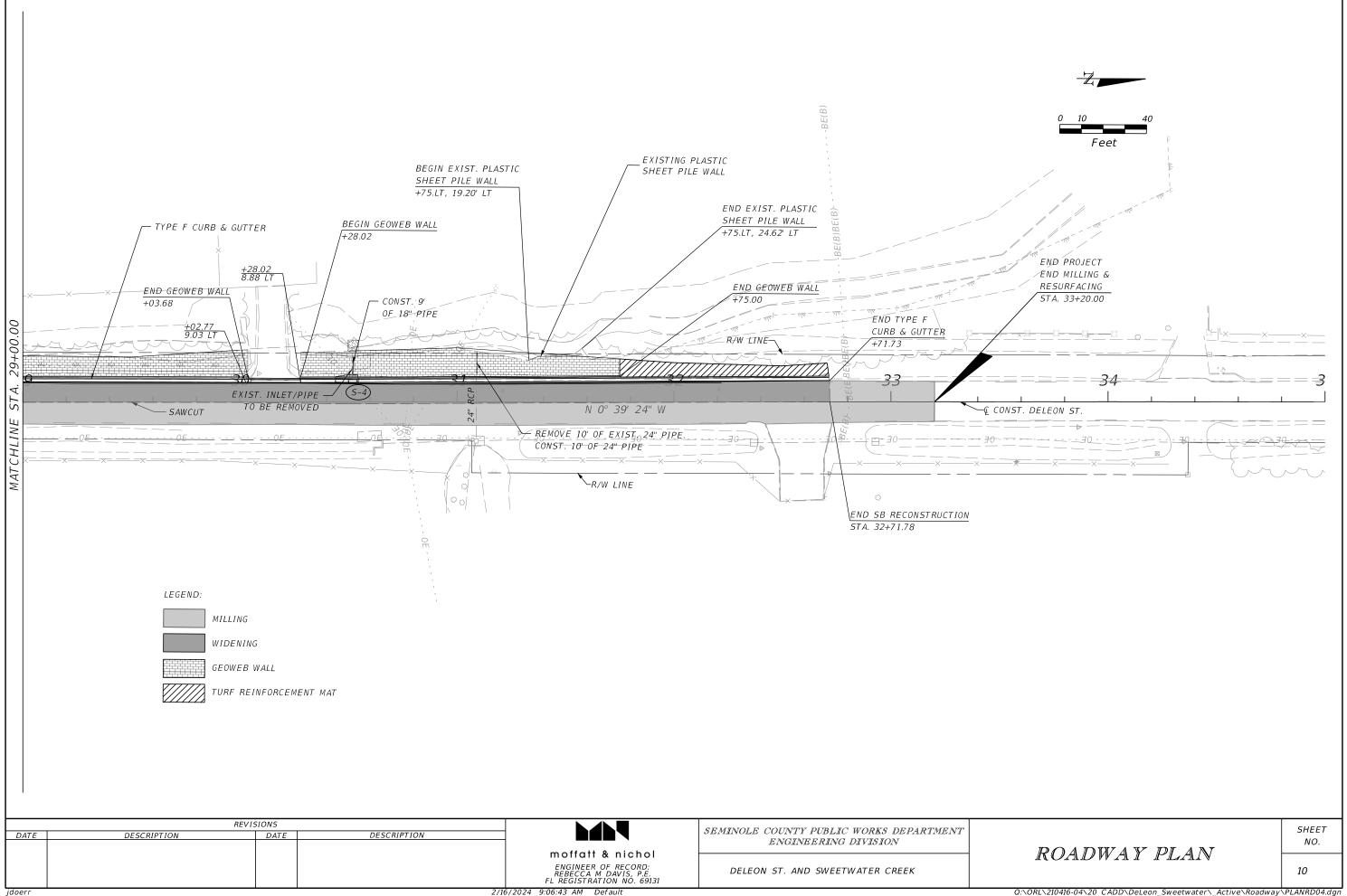
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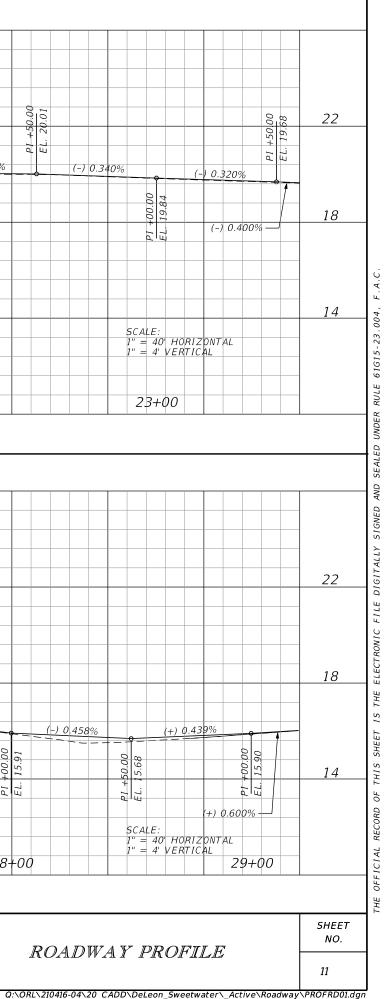




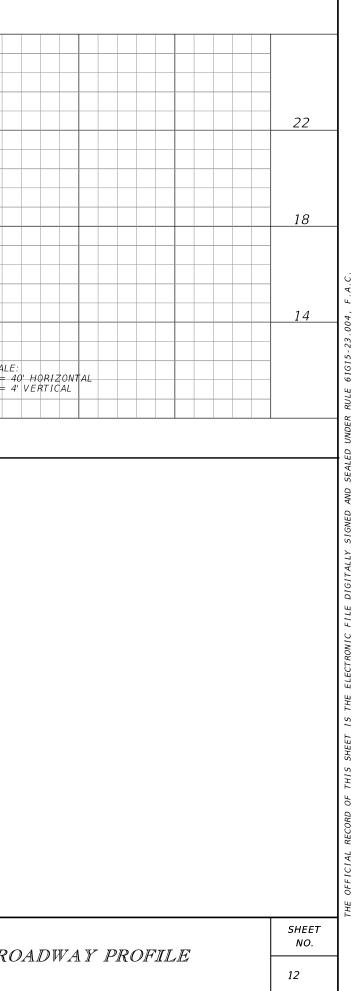


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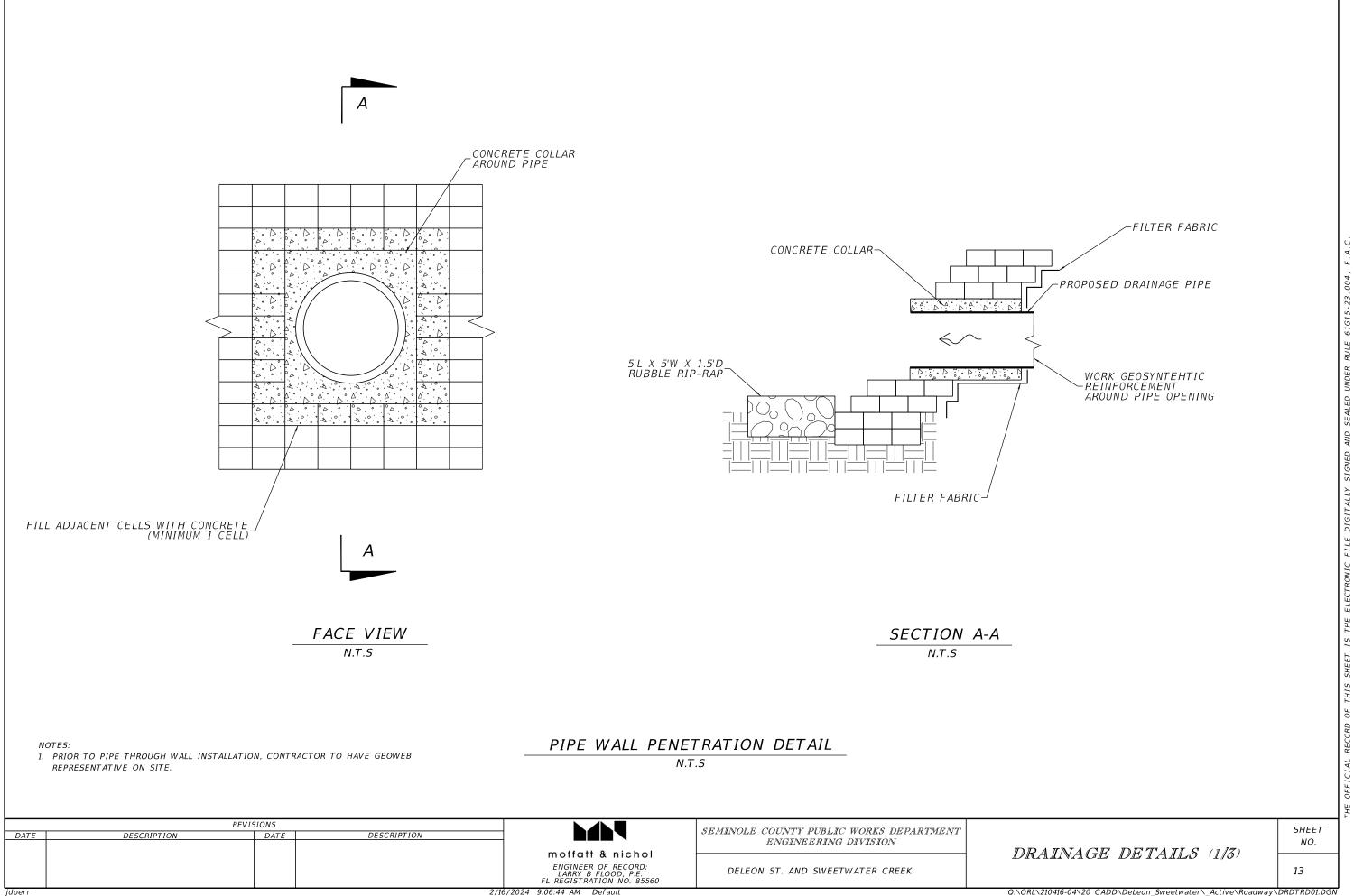
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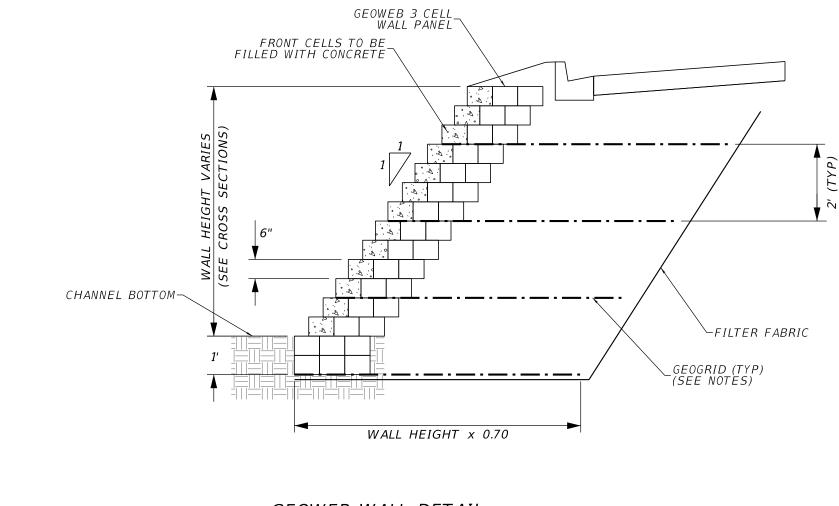


			moffatt & nichol ENGINEER OF RECORD: REBECCA M DAVIS, P.E. FL REGISTRATION NO. 69131	ENGINEERING DIVISION	ŀ
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18	2.2 2	GROUND AT EQP	bit         bit <td>(+) 0.693% (+) 0.702% (-) 0.672%</td> <td></td>	(+) 0.693% (+) 0.702% (-) 0.672%	
22					



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GEOWEB WALL DETAIL N.T.S

## NOTES:

- 1. GEOWEB WALL TO BE GEOWEB GW30V60803P (6-INCH) 3 CELL WALL PANELS OR APPROVED EQUAL. INSTALL PER MANUFACTURER INSTRUCTIONS.
- 2. GEOGRID SHALL BE MIRAFI 2XT OR APPROVED EQUAL WITH A LONG TERM DESIGN STRENGTH OF 1,096 LBS/FT.
- 3. PRE-SHAPE THE GEOWEB SYSTEM PRIOR TO INFILL PLACEMENT.
- 4. INFILL FRONT CELLS WITH CONCRETE TO RESIST EROSION.

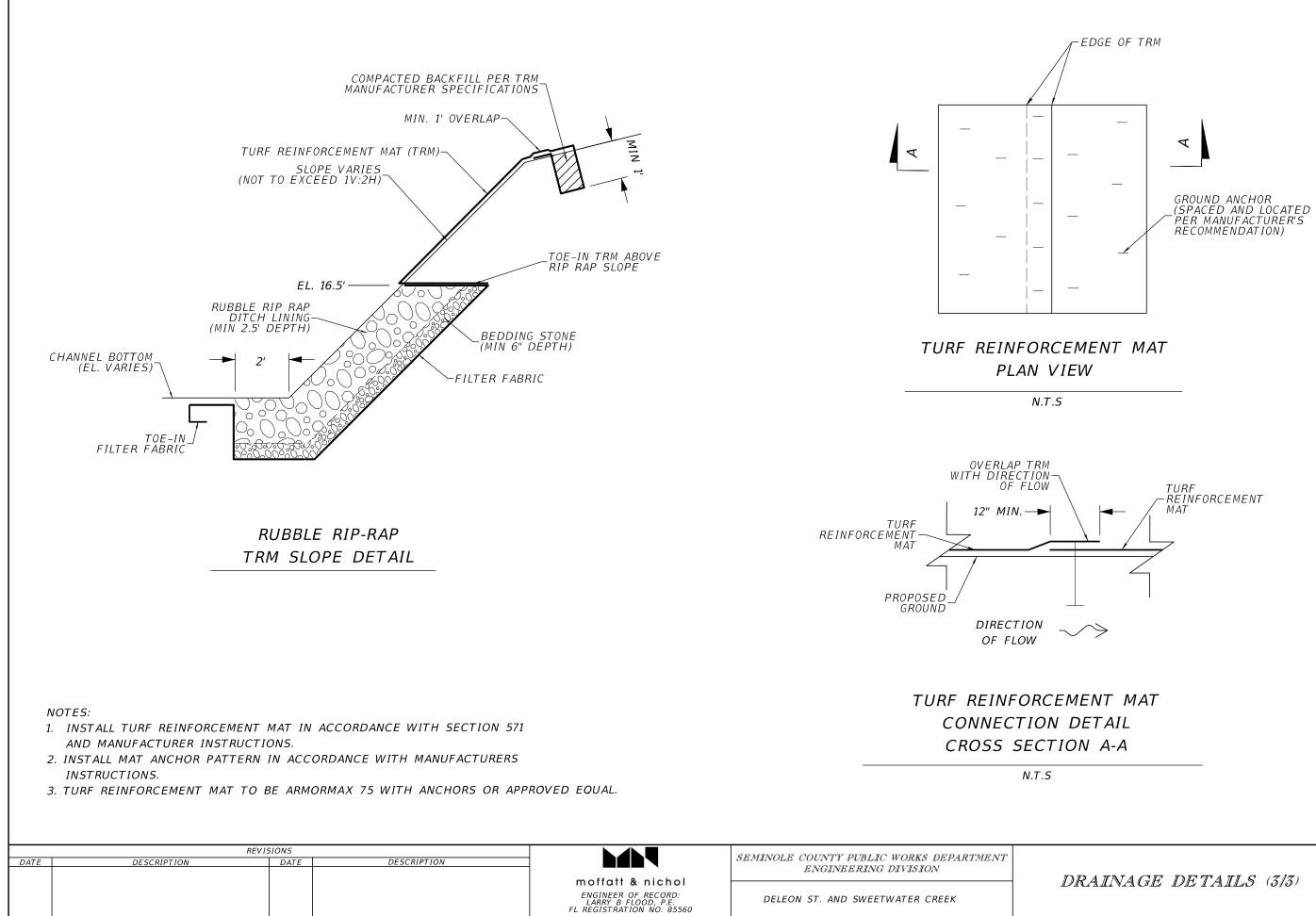
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DATE	DESCRIPTION	DATE	DESCRIPTION		SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	
				moffatt & nichol		DR
				ENGINEER OF RECORD:		
				LARRY B FLOOD, P.E. FL REGISTRATION NO. 85560	DELEON ST. AND SWEETWATER CREEK	
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SHEET NO.

14

# RAINAGE DETAILS (2/3)

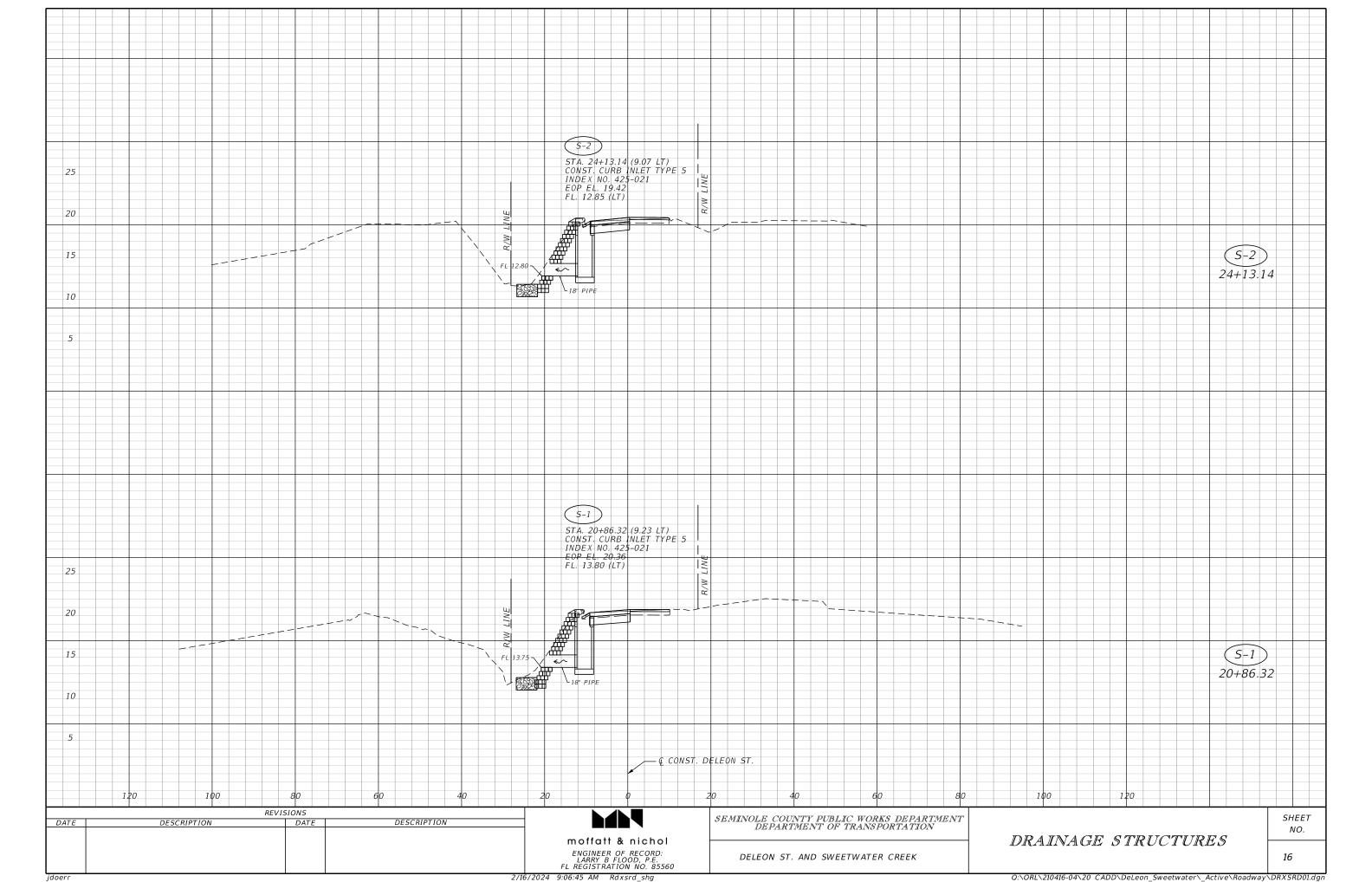
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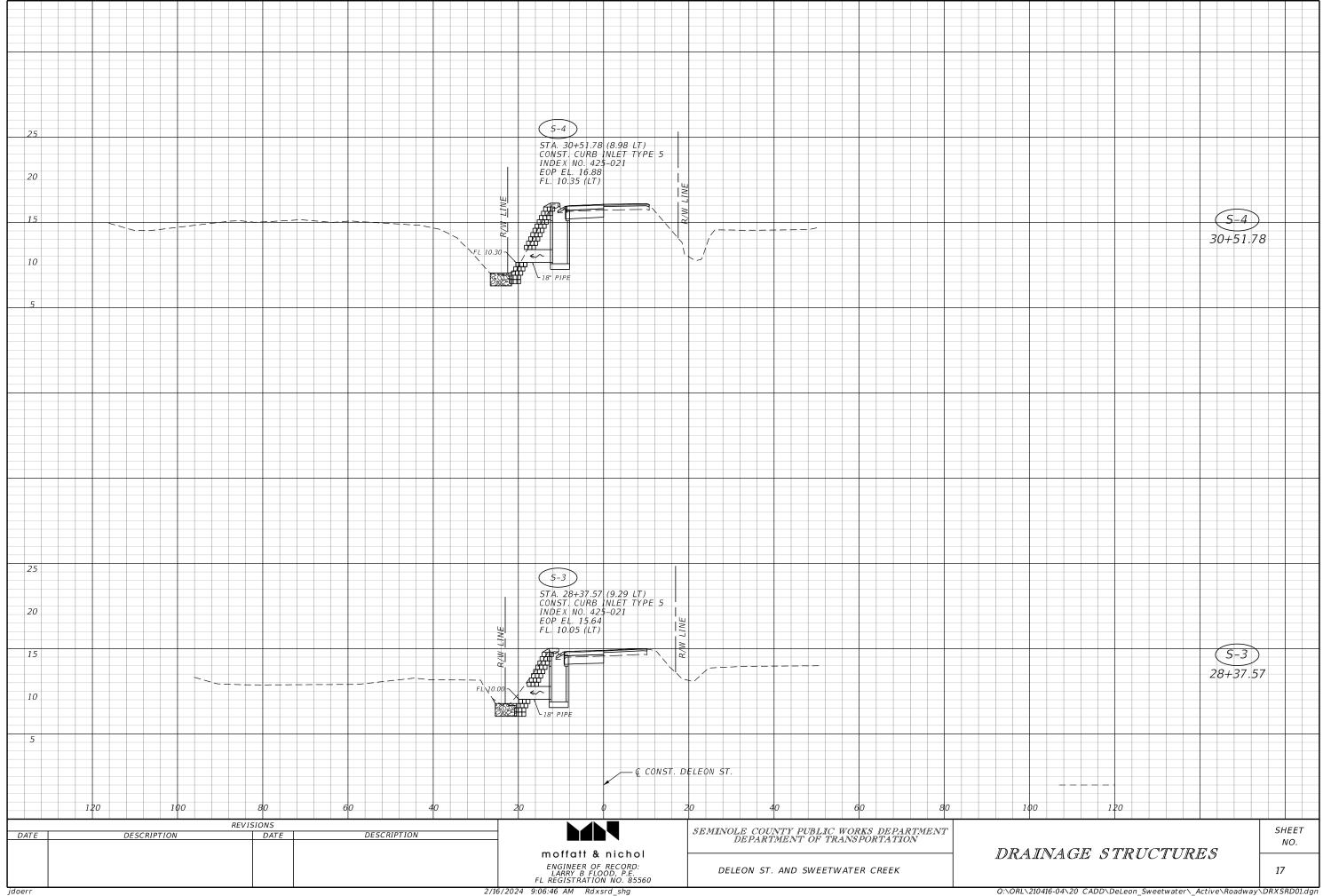


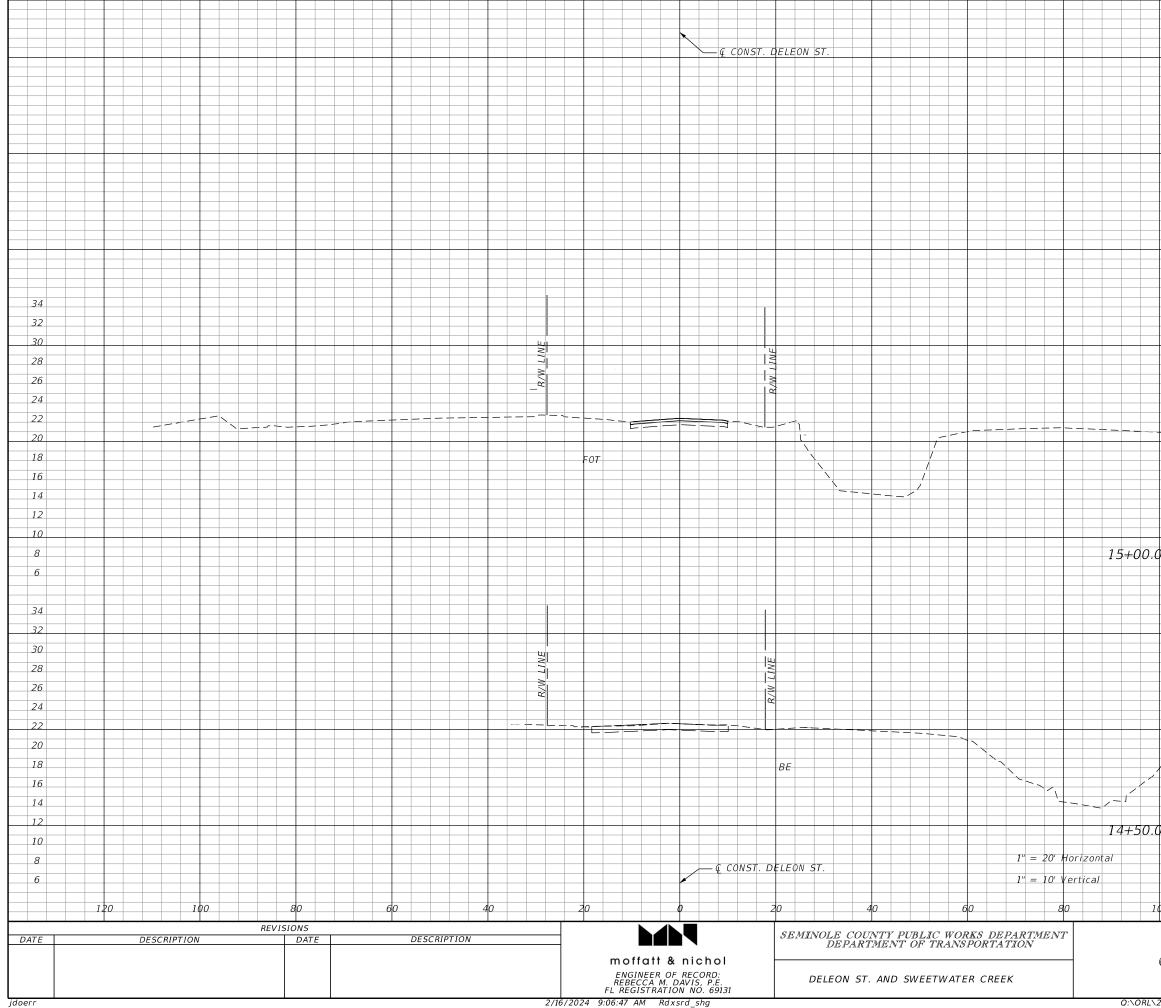
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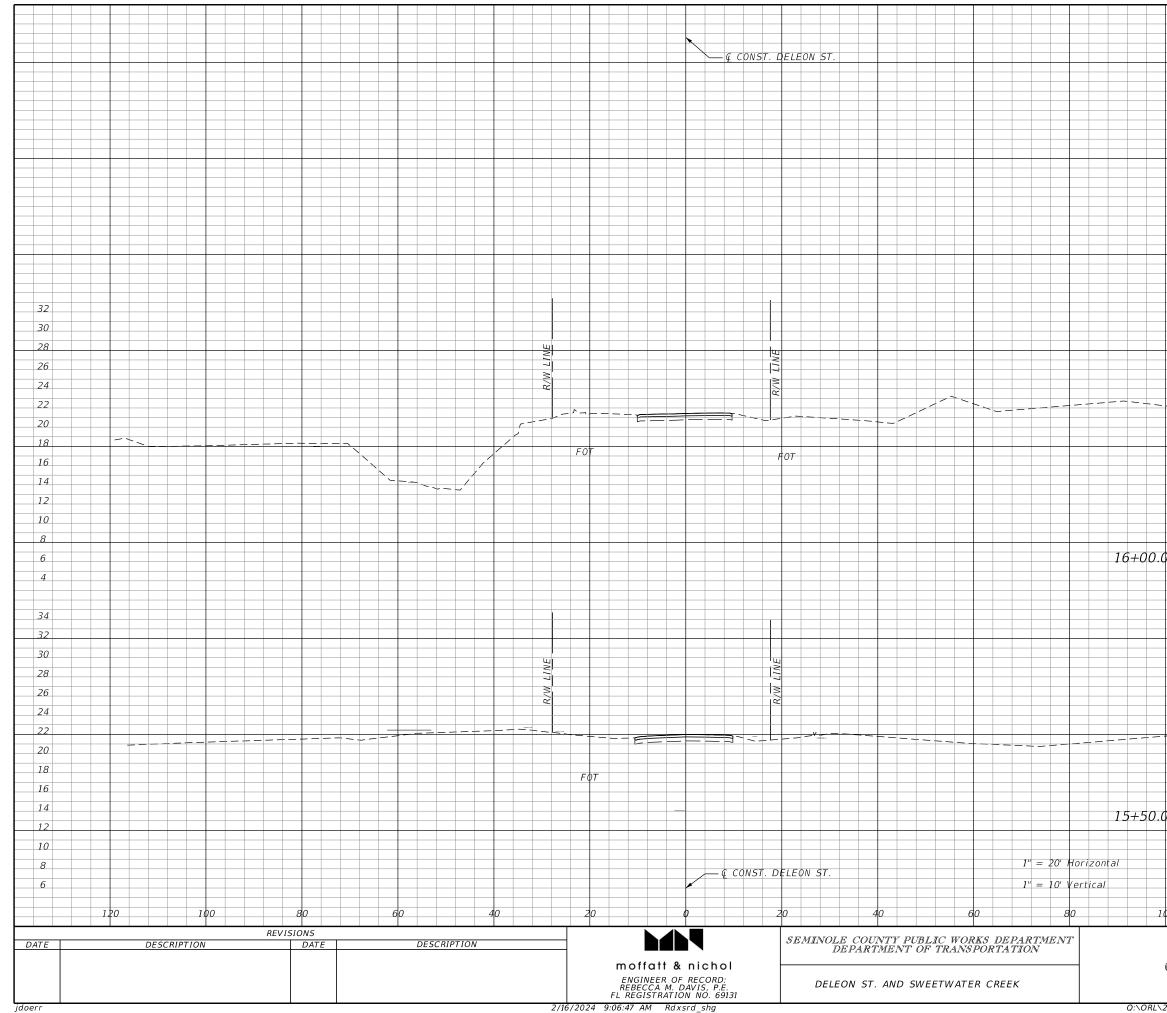
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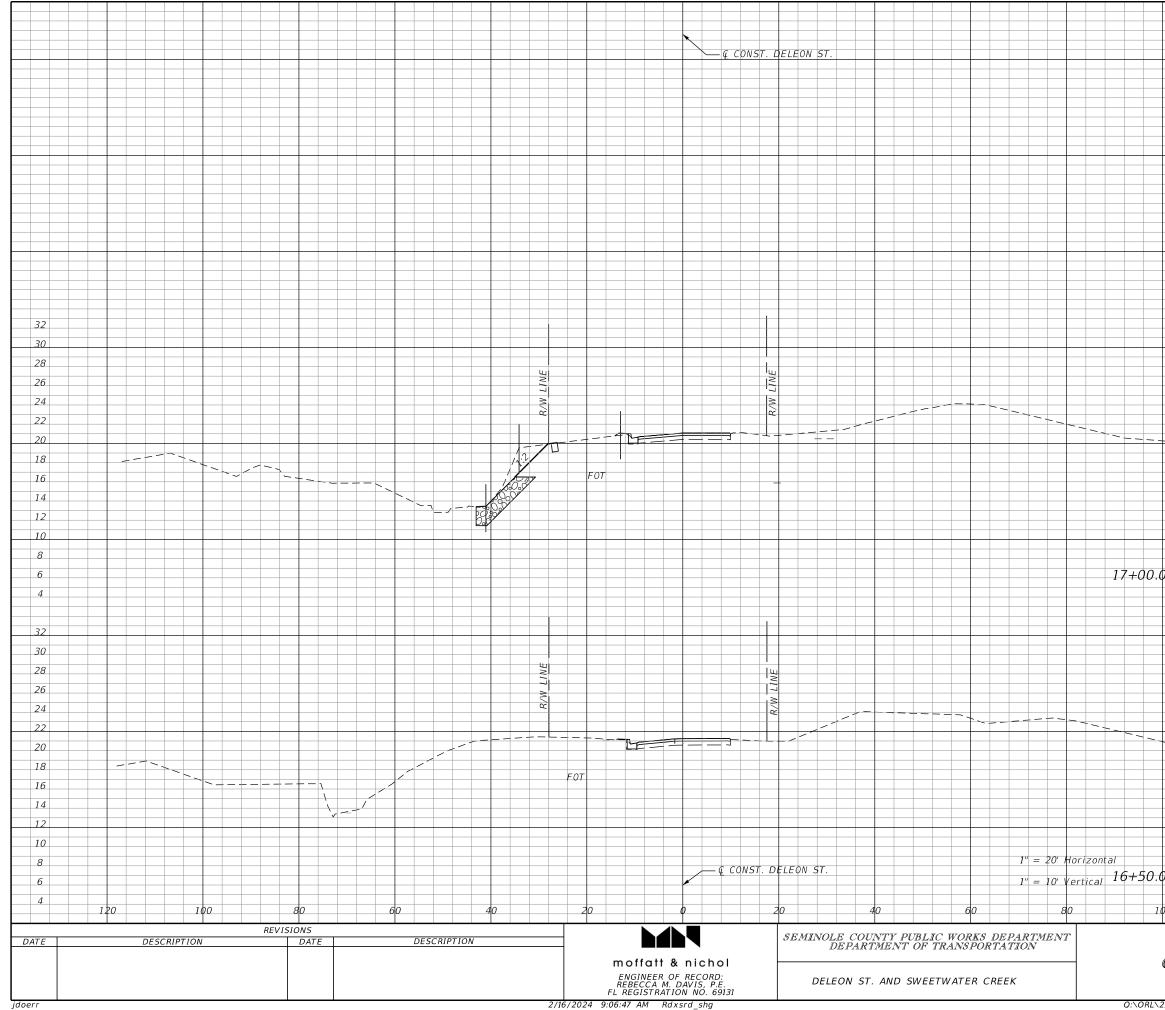




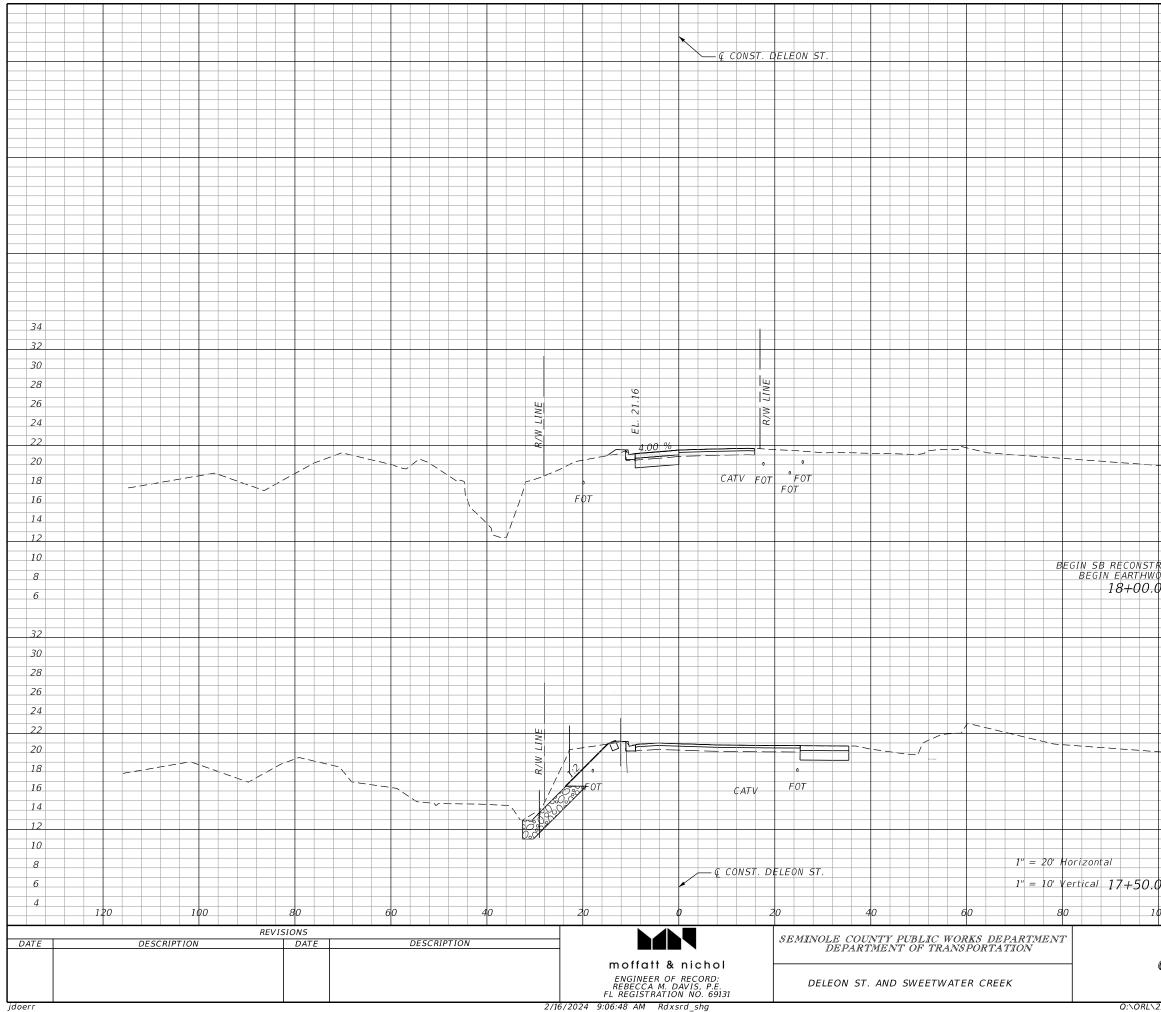
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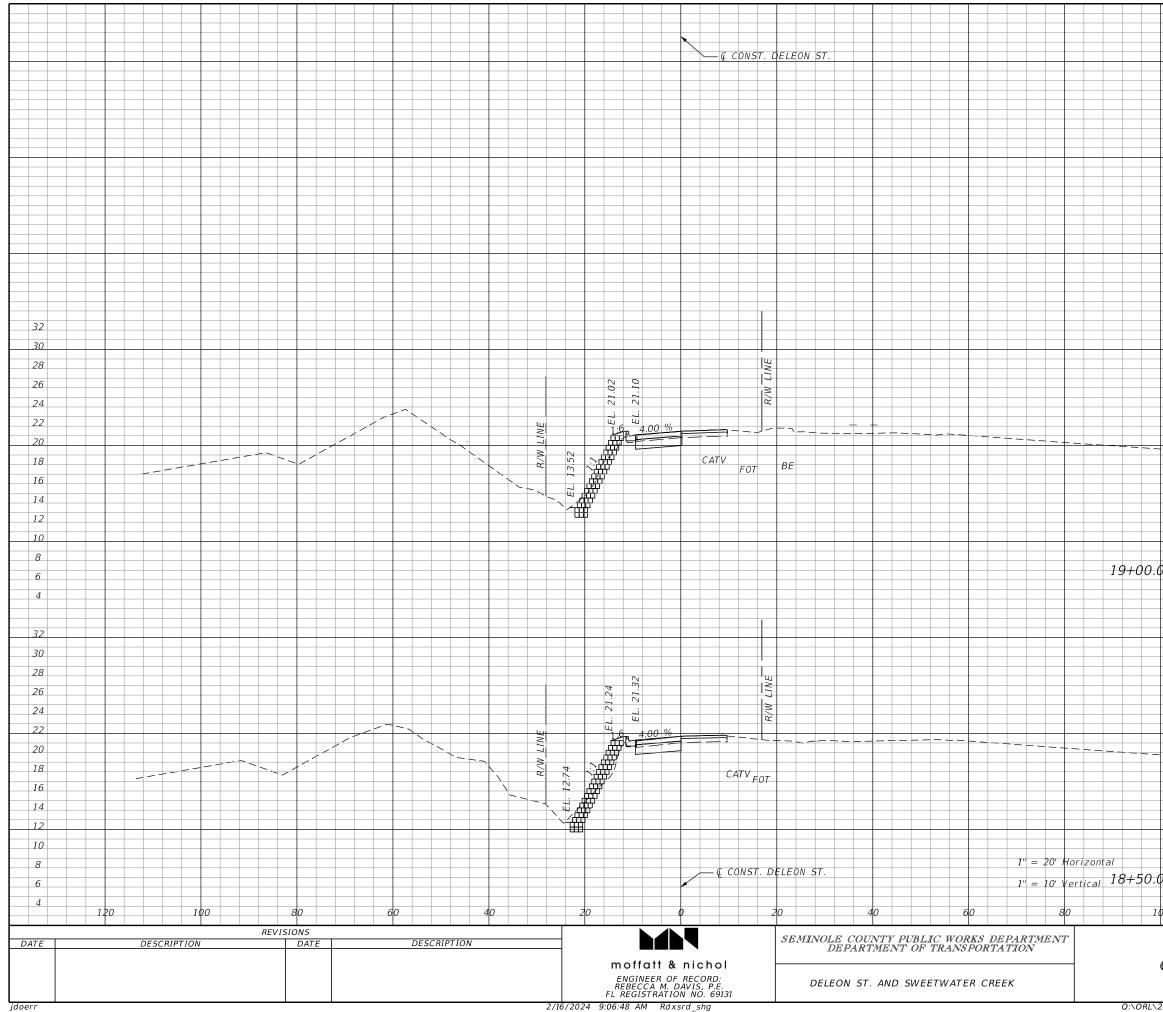
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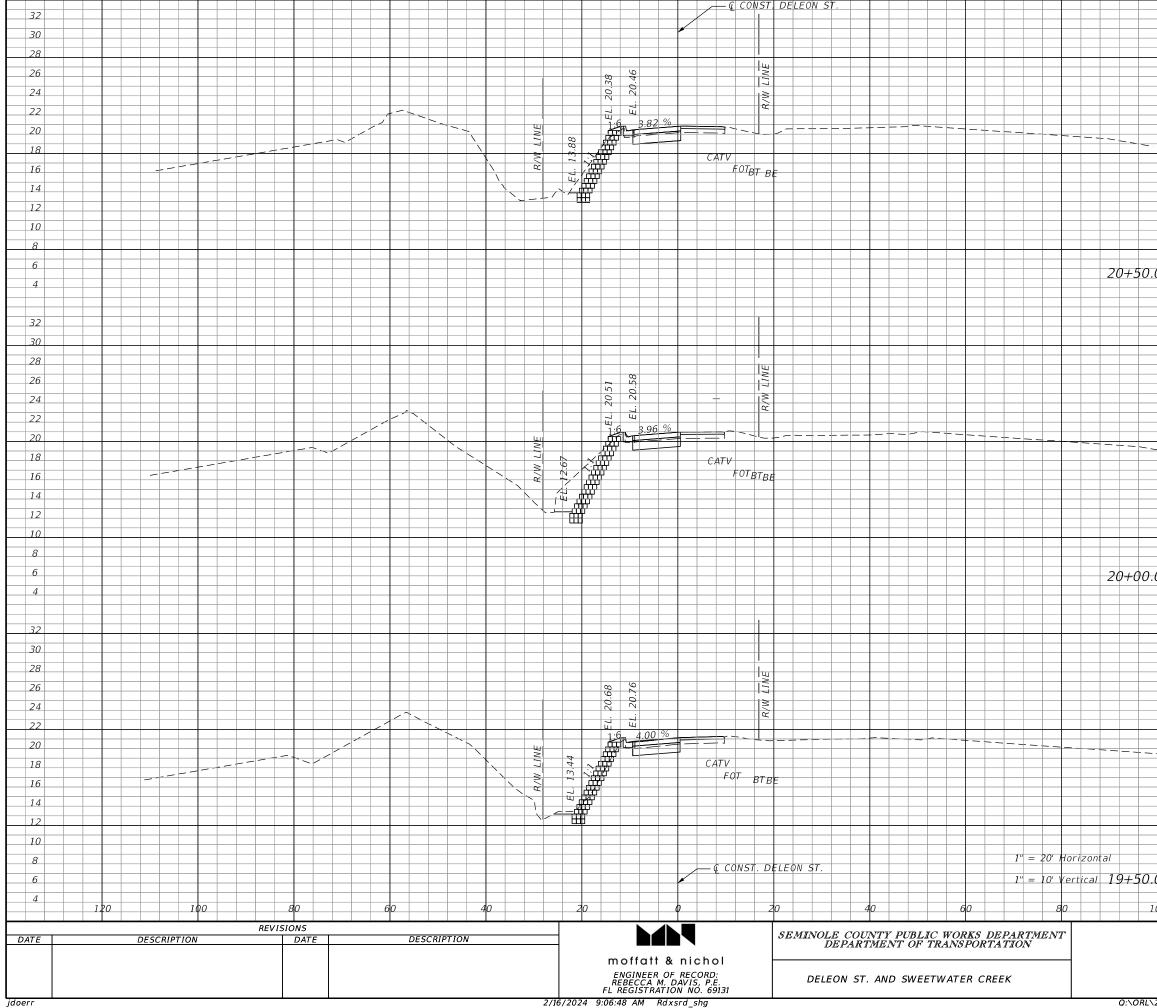
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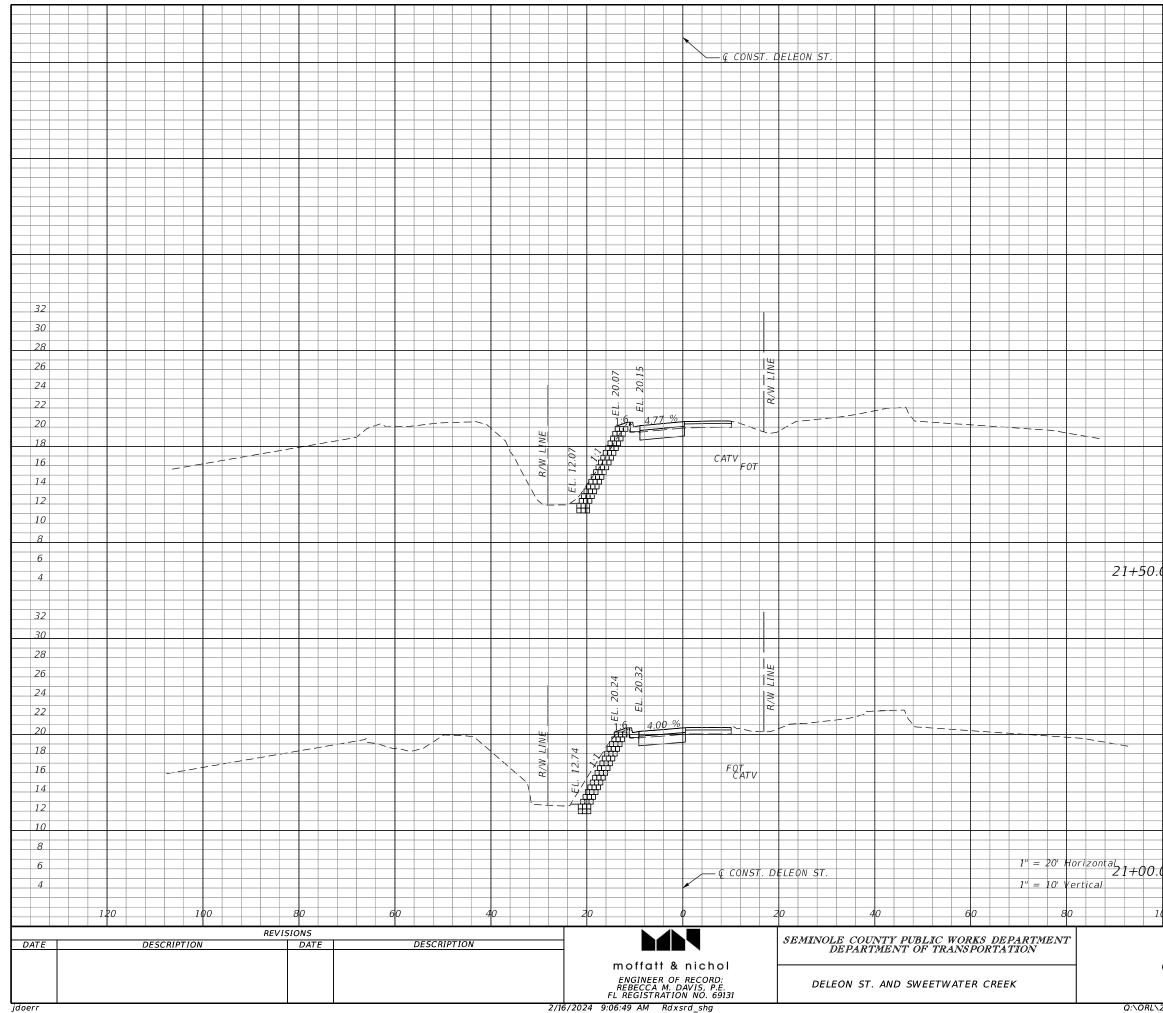
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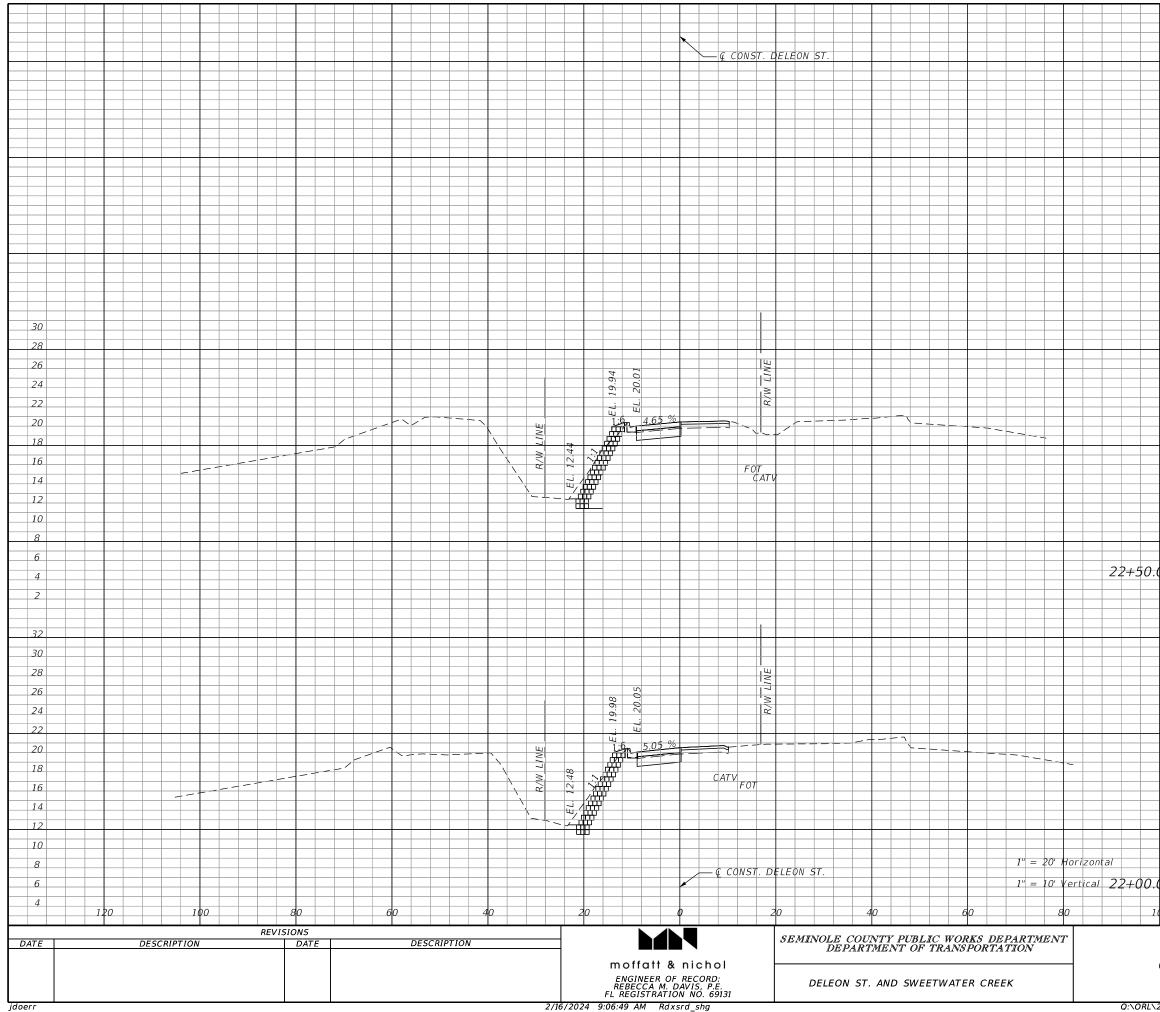
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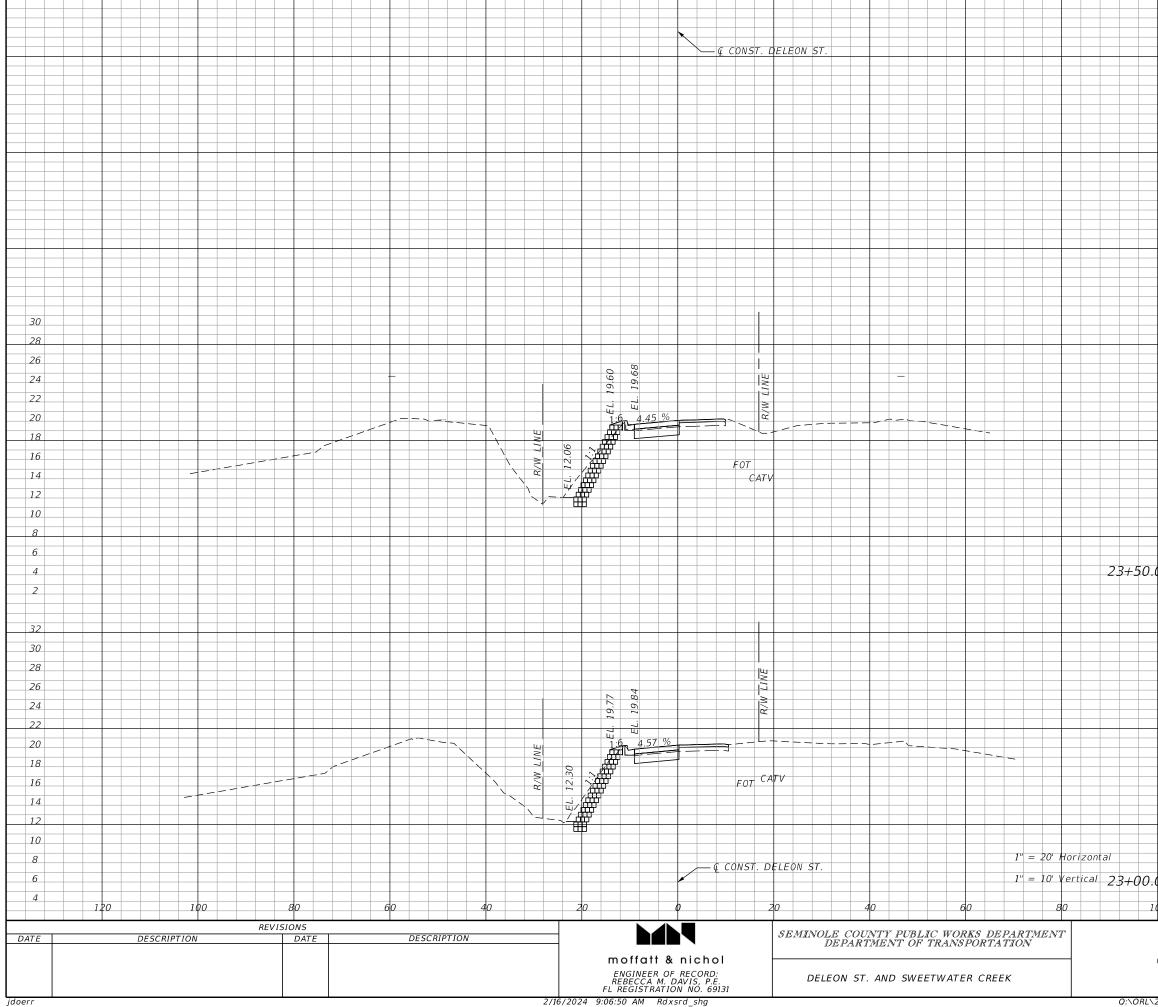
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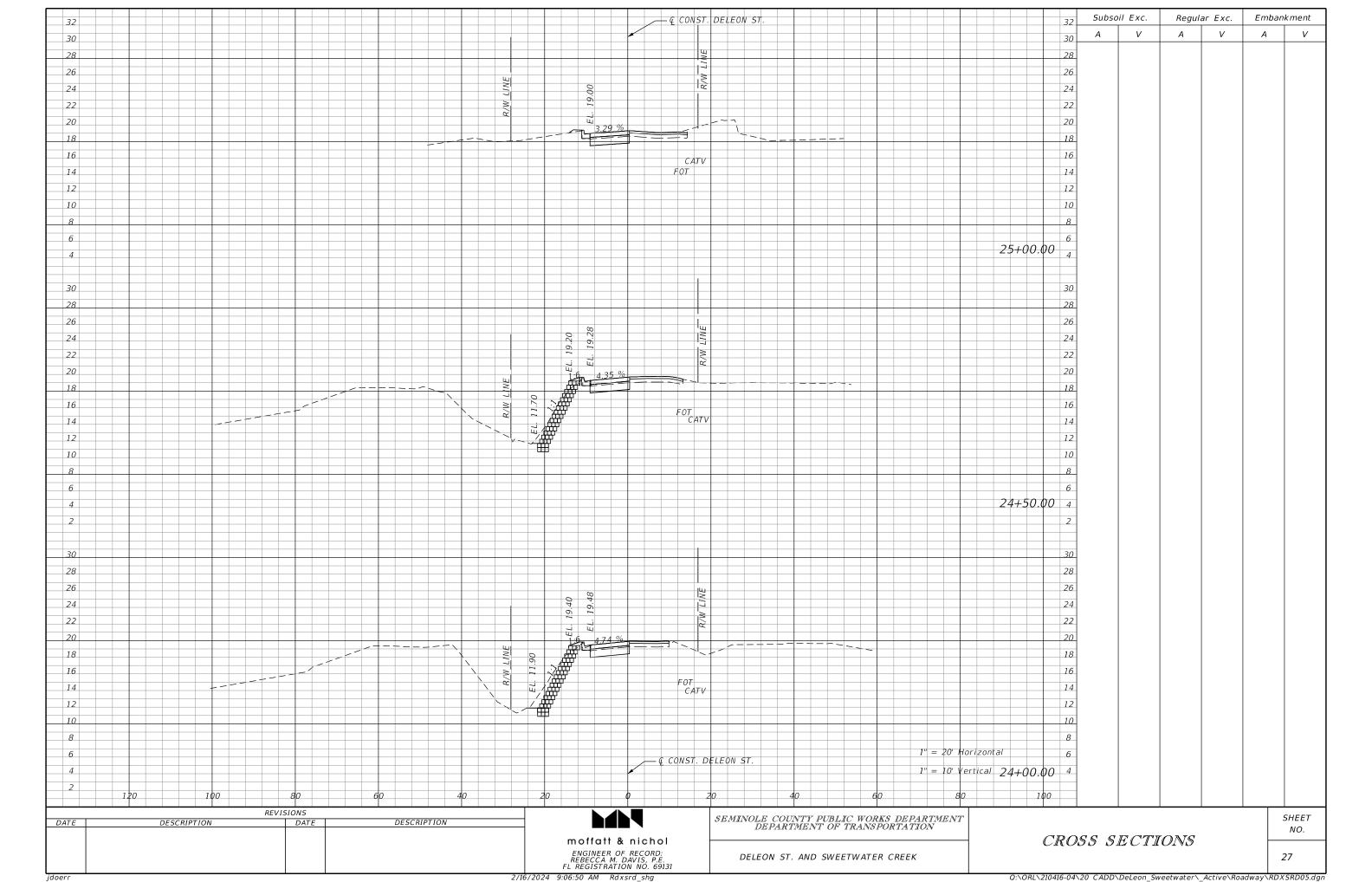
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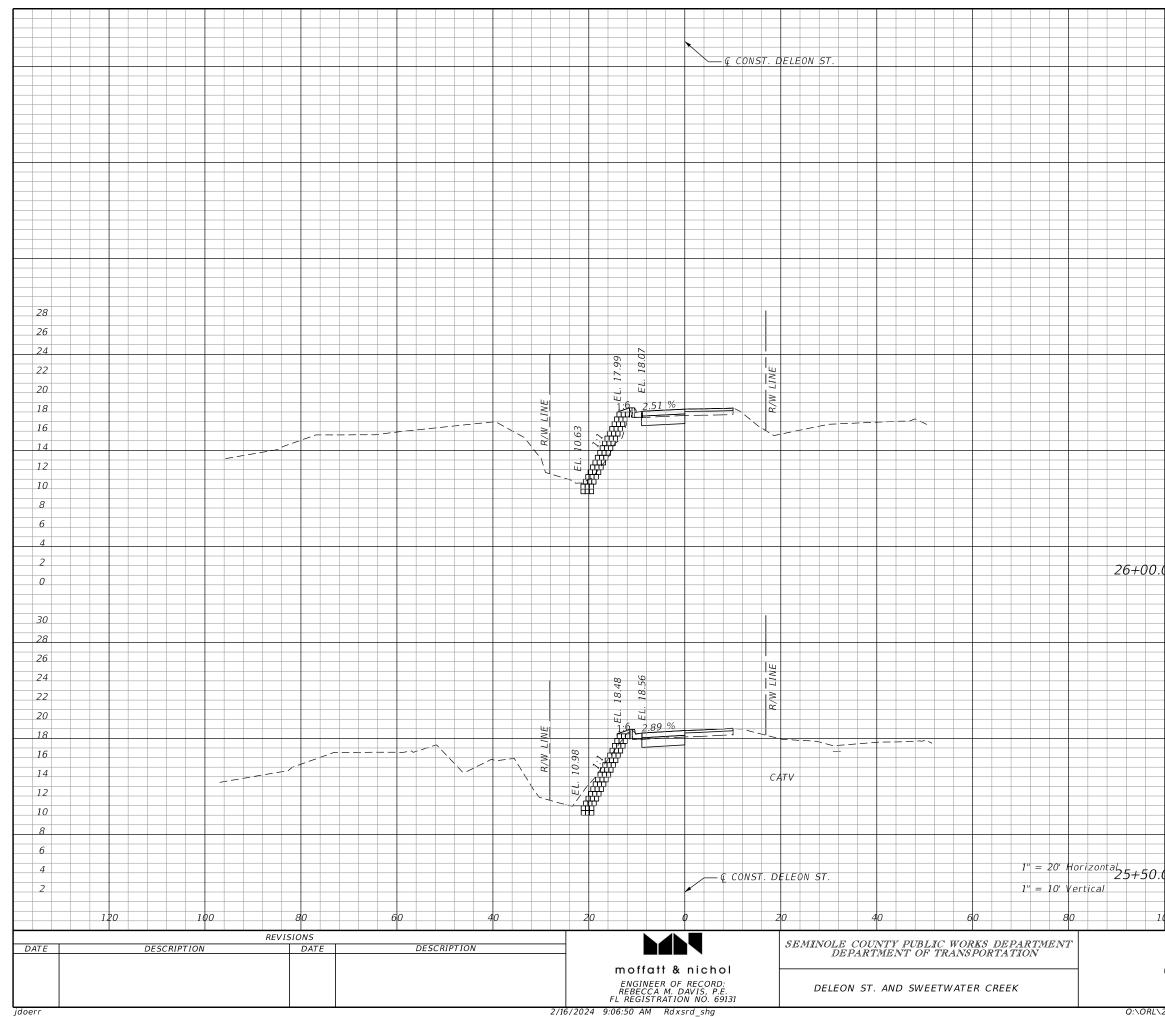


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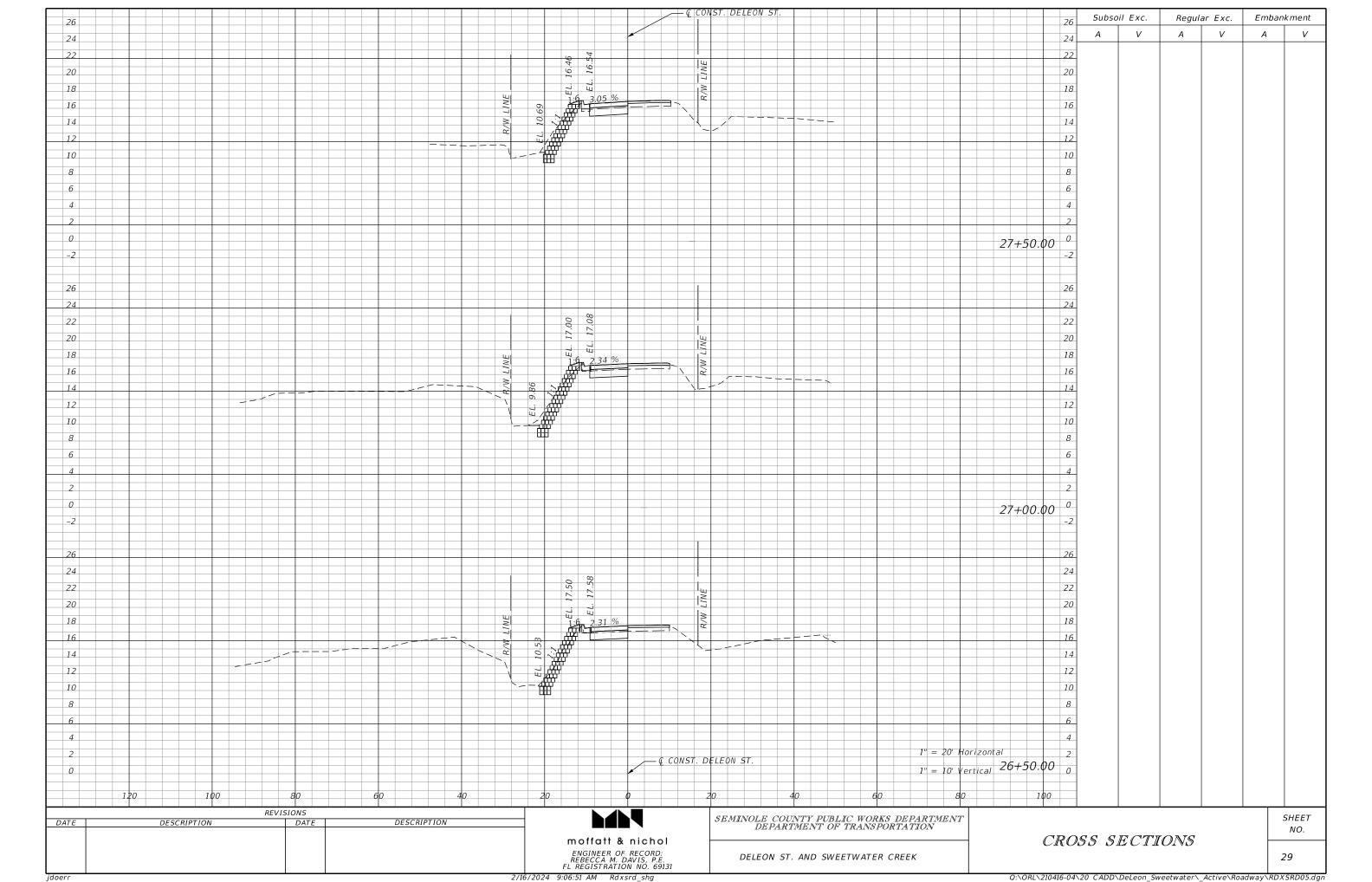


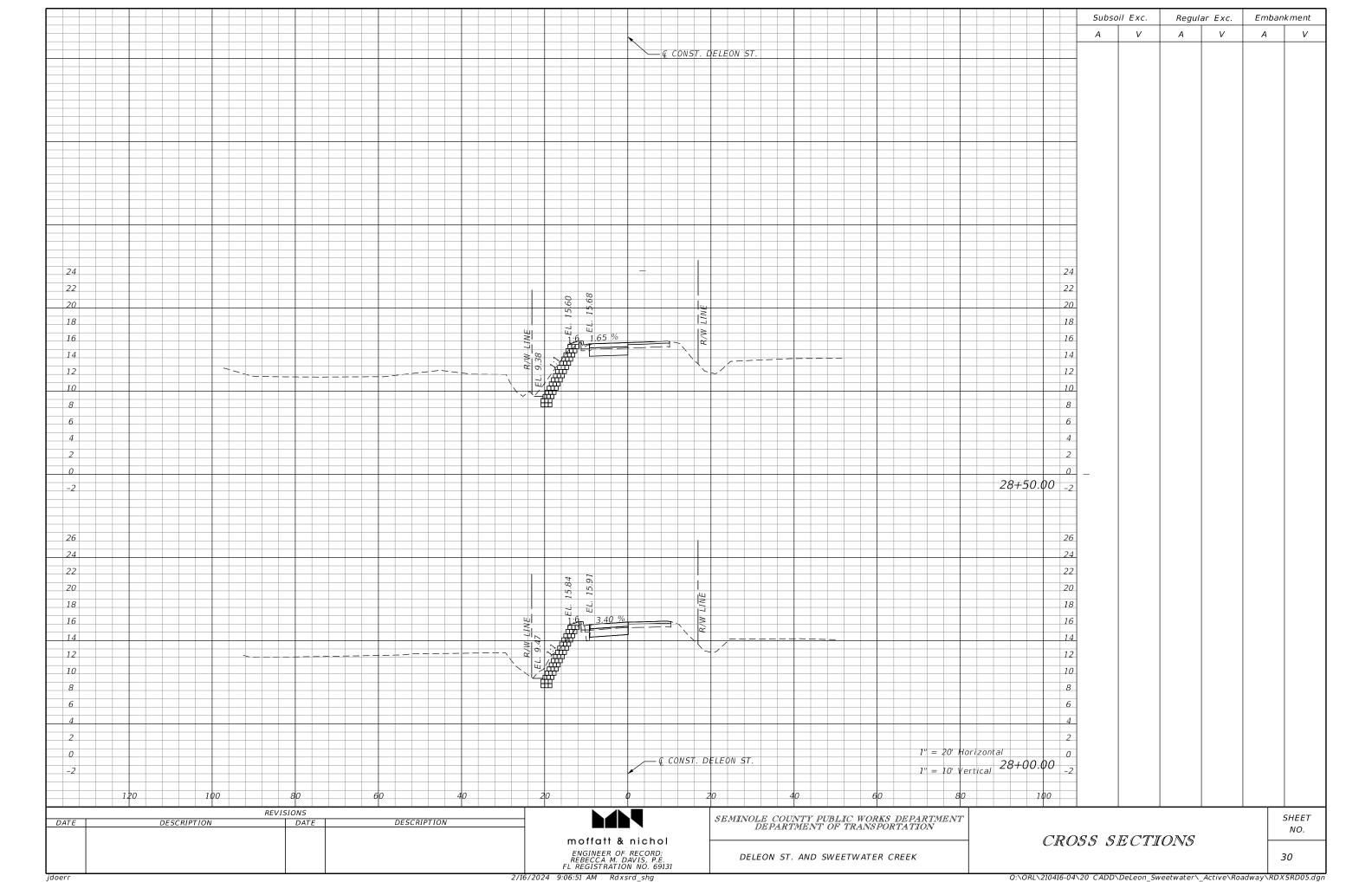
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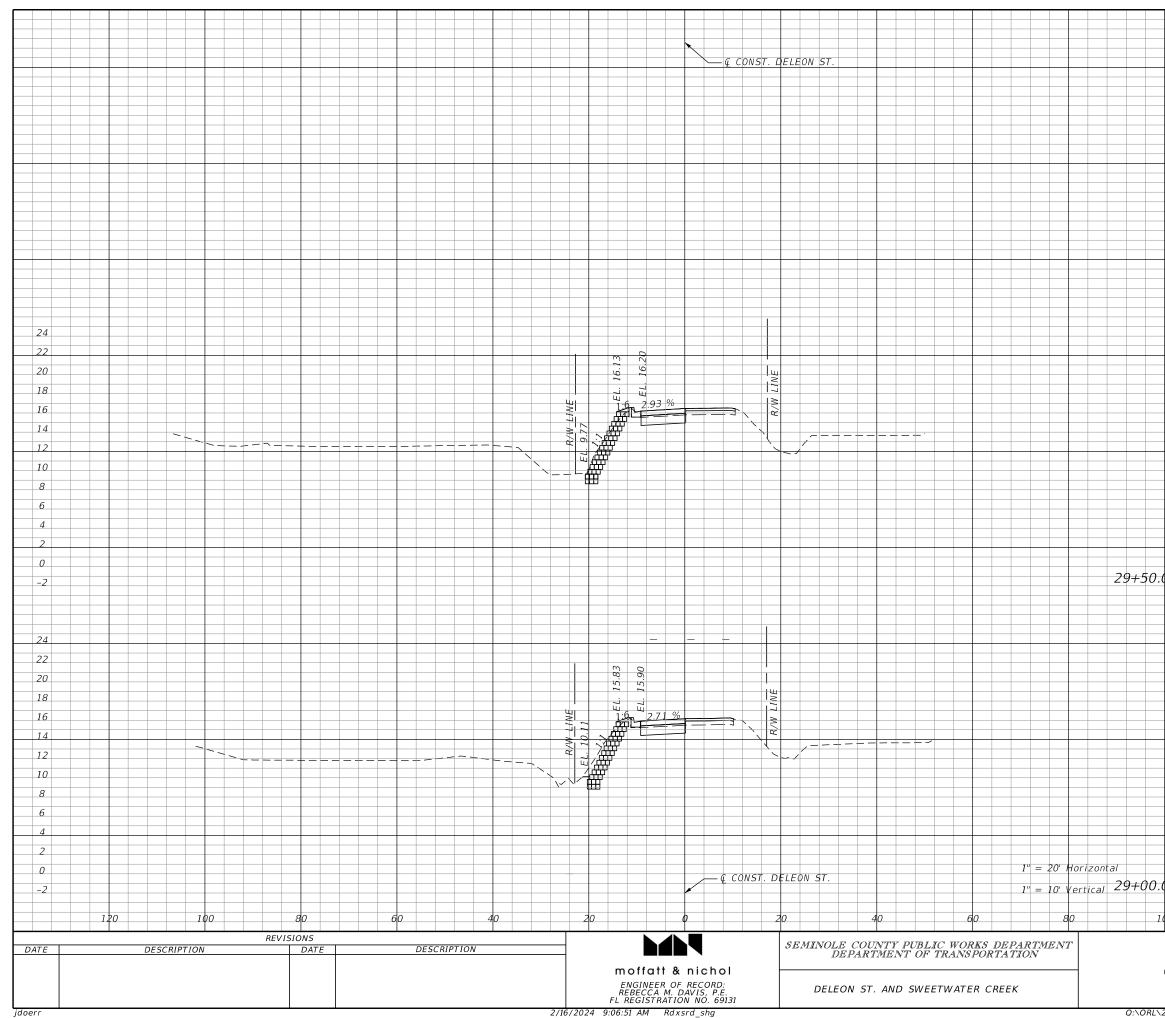




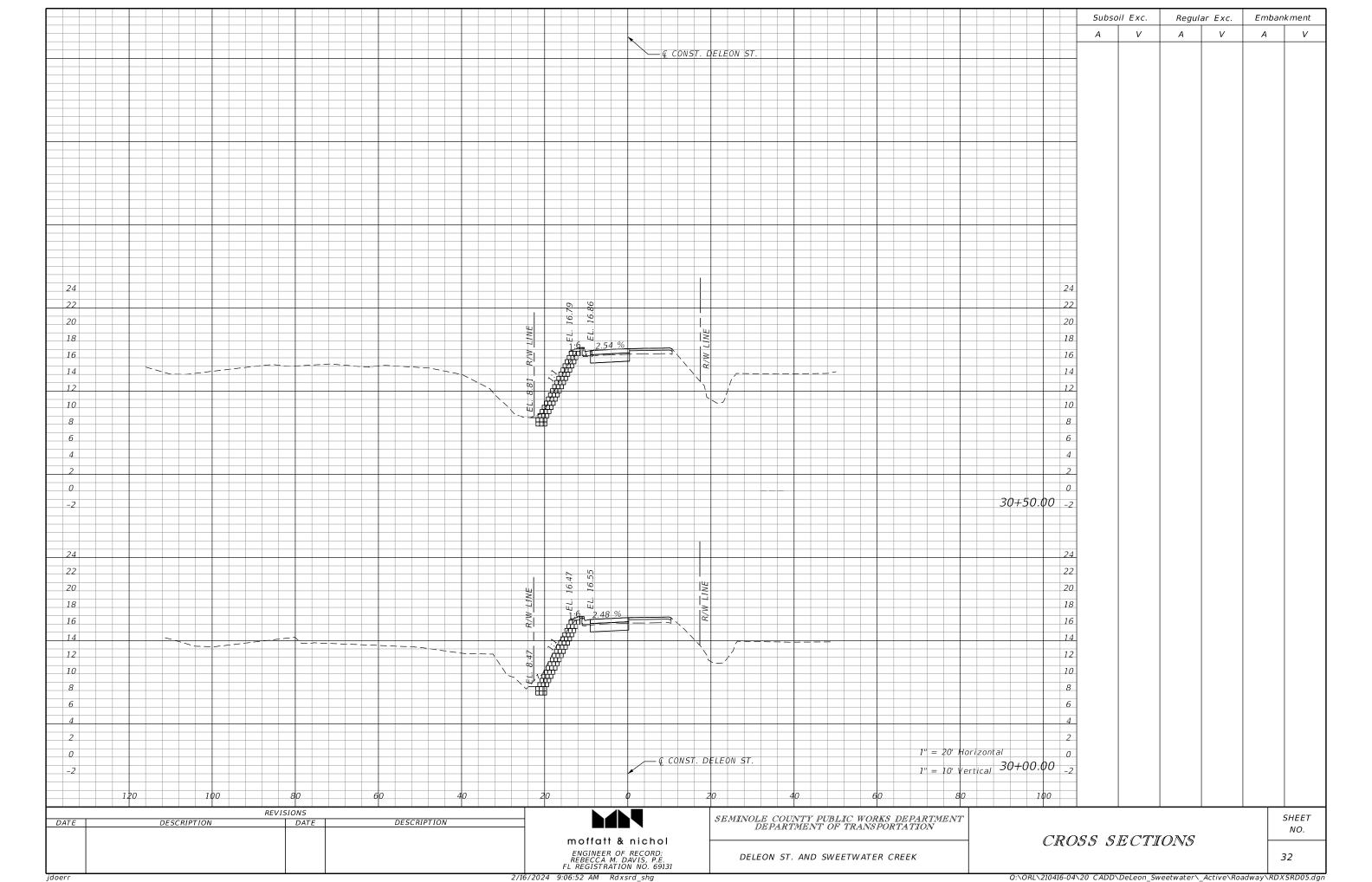
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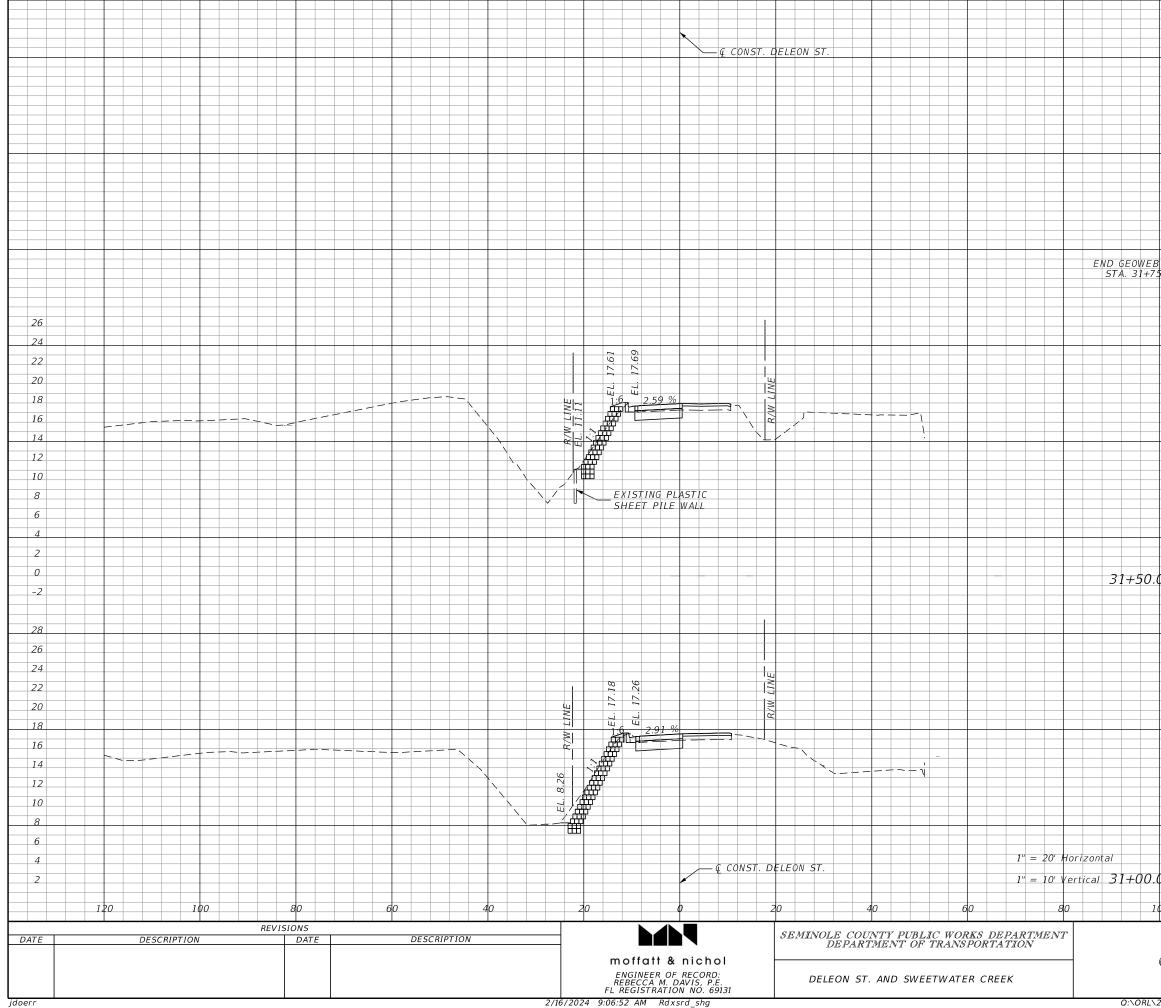




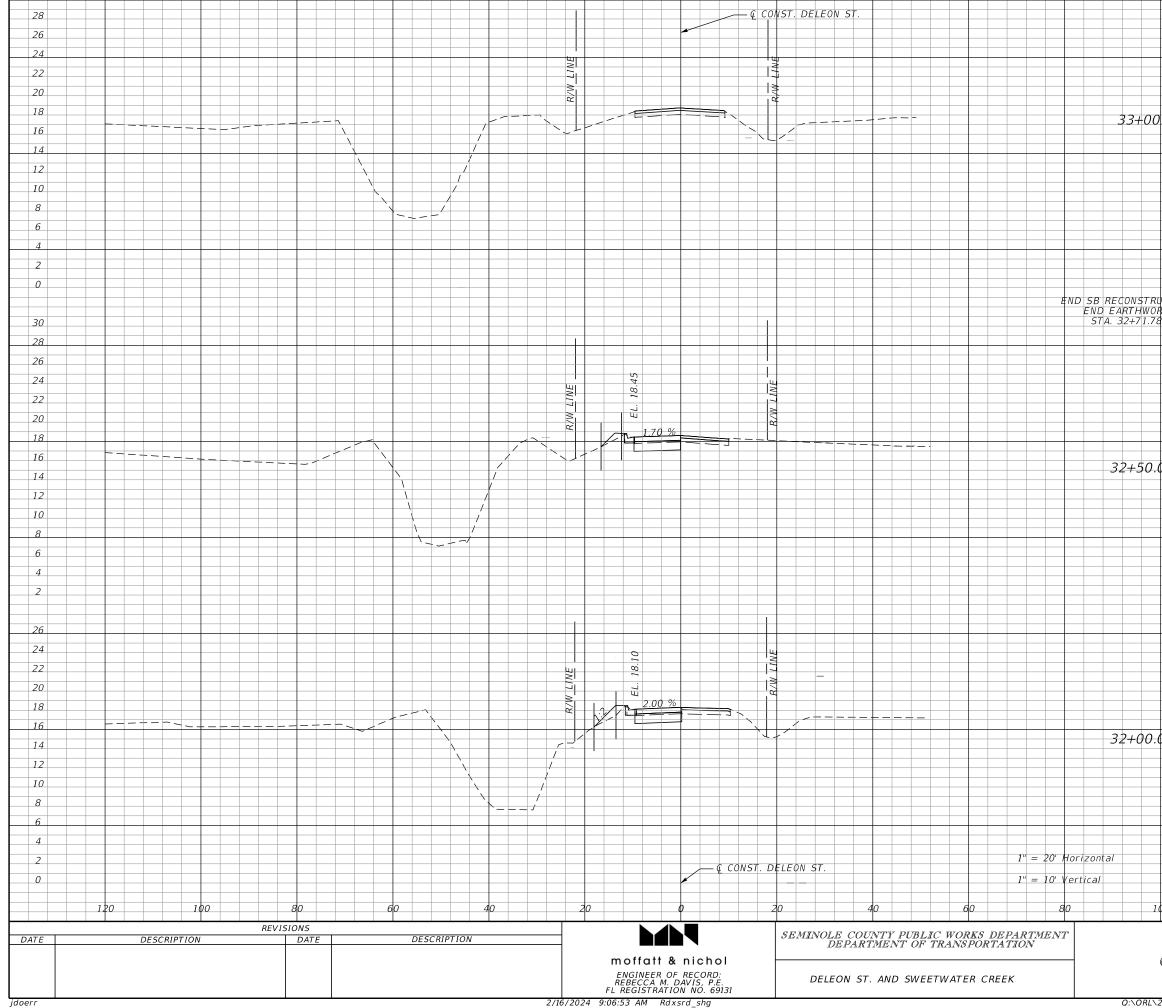


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THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION. THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY FDOT SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

- I. SITE DESCRIPTION:
  - (1) NATURE OF CONSTRUCTION ACTIVITY:
    - ROADWAY RECONSTRUCTION AND EROSION REPAIR ALONG DELEON ST FROM SWEETWATER CREEK CROSSING TO SOUTH OF HOWARD AVE IN SEMINOLE COUNTY.
  - SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: IN THE (2)SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER. FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.
    - INSTALLATION OF EROSION CONTROL DEVICES
    - CLEARING AND GRUBBING
    - CONSTRUCTION OF ROADWAY RECONSTRUCTION, DRAINAGE iii STRUCTURES, GEOWEB WALL, AND MILLING AND RESURFACING
    - iv. FINAL SOD/SEED
  - (3) GENERAL NOTES
    - ALL EROSION AND SEDIMENT CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.
    - INSTALL EROSION AND SEDIMENT CONTROL DEVICES WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR PERIMETER CONTROLS BEFORE THE LAND IS DISTURBED.
    - PROVIDE SEDIMENT BARRIERS WHERE LISTED IN THE iii. CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR DITCH/SWALE CHECK DAMS DURING CONSTRUCTION
    - PROVIDE INLET PROTECTION SYSTEMS AT INLET OPENINGS.
    - COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
    - DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR vi CONSTRUCTION TO PROCEED.
    - TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM vii. SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.
    - DO NOT REMOVE PERIMETER CONTROLS UNTIL ALL viii. UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED.

(4)PROJECT AREAS:

TOTAL SITE AREA: 3.60 ACRES TOTAL AREA TO BE DISTURBED: 3.60 ACRES

(5) ESTIMATED RUNOFF COEFFICIENTS EXISTING SOIL DATA:

DELEON ST. SWEETWATER CREEK ESTIMATED RUNOFF COEFFICIENTS: BEFORE CONSTRUCTION: 0.65 DURING CONSTRUCTION: 0.65 AFTER CONSTRUCTION: 0.65

- (6)DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE: THE PREDOMINANT SOILS ARE POORLY DRAINED FINE SANDS.
- (7) ESTIMATED DRAINAGE FLOW DIRECTION AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL:
  - SITE MAP: THE CONSTRUCTION DRAWINGS WILL SERVE AS THE SITE MAP. DRAINAGE MAP NARRATIVE: OVERALL DRAINAGE PATTERNS WILL NOT BE ALTERED FROM PRE TO POST CONDITIONS.
    - DESCRIPTION: FLOW IS CAPTURED IN SWEEETWATER CREEK, THEN 1. CONVEYED NORTH TO LAKE JESUP.
- (8) RECEIVING WATERS/WETLAND AREAS: THERE IS 1 OUTFALL

i. DESCRIPTION: SWEETWATER CREEK. LOCATION: LATITUDE 28° 41' 47.6" N, LONGITUDE 81° 12' 32.6" W. RECEIVING WATER NAME LAKE JESUP

WETLAND AND/OR SURFACE WATER IMPACTS ARE ANTICIPATED TO OCCUR FOR (9)THE PROPOSED IMPROVEMENTS.

(10) DESCRIPTION OF STORMWATER MANAGEMENT (EXISTING/PROPOSED):

- EXISTING AND PROPOSED DRAINAGE FLOWS ARE TYPICALLY CONVEYED THROUGH STORM SEWER INLETS AND PIPES, ROADSIDE DITCHES, SIDEDRAINS AND CROSS DRAINS ALONG THE PROJECT
- OFF- SITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS.
- THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING iii DUST CONTROL DURING ALL PHASES OF CONSTRUCTION. SEDIMENT CONTROL WILL BE ACCOMPLISHED BY USING STREET OR VACUUM SWEEPERS.
- THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT iv. UNAUTHORIZED MATERIALS FROM ENTERING WETLANDS, WATERWAYS. OTHER SURFACE WATERS OR WATERS OF THE U.S.

iii.

### (1) WATER QUALITY MONITORING:

WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIRONMENTAL PERMIT OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ADMINISTRATOR. THE PROJECT ADMINISTRATOR WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY. NO GREATER THAN 29 NEPHELOMETRIC TURBIDITY UNITS (NTU) ABOVE BACKGROUND OR GREATER THAN O NTU ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S. IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY, THE ENVIRONMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (LESS THAN 29 NTU ABOVE BACKGROUND OR LESS THAN O NTU ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S. WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE PROJECT ENGINEER

(2) STABILIZATION PRACTICES:

(E&SC MANUAL). PERMANENTLY. iii. iv vi vii. NEEDED.

REVISIONS					SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT	
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				ENGINEER OF RECORD: LARRY B FLOOD, P.E. FL REGISTRATION NO. 85560	DELEON ST. AND SWEETWATER CREEK	PRE
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STABILIZATION MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTAINING, ESTABLISHING AND USING VEGETATION, APPLYING MULCHES, SODDING, SEEDING BEST MANAGEMENT PRACTICES (BMP) AND THE USE OF ROLLED EROSION CONTROL PRODUCTS. WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, SIDE SLOPES SHALL BE STABILIZED WITH PERFORMANCE SODDING OR SEEDING OR ANY OTHER APPROVED METHOD OF STABILIZATION INCLUDED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL

STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED. BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR

ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS AND THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN. ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED. SEDIMENT BARRIERS SHOULD BE USED ALONG THE LENGTH OF THE PROJECT WHERE THE GROUND SLOPES AWAY FROM THE RIGHT OF WAY OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF- SITE. PARTICULAR CARE SHOULD BE USED WHEN THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF- SITE. PARTICULAR CARE SHOULD BE USED WHEN THERE ARE WETLANDS OR WATERS OF THE U.S. ARE INVOLVED. SEDIMENT BARRIERS SHOULD BE USED AROUND THE PERIMETER OF STOCKPILE AREAS. SPACING OF SEDIMENT BARRIERS USED AS DITCH OR SWALE CHECKS/DAMS SHOULD BE BASED UPON THE HEIGHT OF THE BARRIER AND THE SLOPE OF THE DITCH OR SWALE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING SOIL TRACKING PREVENTION SYSTEMS OR PROCEDURES AS

> IWATER POLLUTION EVENTION PLAN

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## (3) STRUCTURAL PRACTICES FOR EROSION AND SEDIMENT CONTROL

- ROLLED EROSION CONTROL PRODUCTS (ARTIFICIAL COVERINGS) PURPOSE: TO PROTECT DISTURBED SLOPE SURFACES AGAINST EROSION DUE TO RAINFALL OR FLOWING WATER.
  - 1. USED FOR PAUSES IN CONSTRUCTION DUE TO INCLEMENT WEATHER OR OTHER CIRCUMSTANCES.
  - USED FOR EROSION CONTROL THAT FACILITATES PLANT GROWTH WHILE PERMANENT GRASS IS ESTABLISHED COULD INCLUDE BIODEGRADABLE EROSION CONTROL BLANKETS INSTALLED ON A SEEDED AREA, ON FILL SLOPES OR DITCHES
  - USED TO STABILIZE DRAINAGE CHANNELS. CONSULT E&SC З. MANUAL TO DETERMINE CORRECT PRODUCT TYPE FOR CHANNEL STABILIZATION.
- RUNOFF CONTROL STRUCTURE (TEMPORARY SLOPE DRAIN) PURPOSE: TO PROTECT HILLSIDE SURFACES AGAINST EROSION DUE TO CONCENTRATED FLOW OF RUNOFF WATER.
  - USED ON FILL SLOPES AND CUT SLOPES TO REDUCE 1 SEDIMENT TRANSPORT AND COULD INCLUDE TEMPORARY SLOPE DRAINS, GRASS-LINED CHANNELS, ROCK-LINED CHANNELS AND CHECK DAMS.
  - RUNOFF CONTROL STRUCTURES TYPICALLY DISCHARGE TO A 2. SEDIMENT BASIN.
- SEDIMENT BASIN (CONTAINMENT SYSTEM) PURPOSE: A CONTAINMENT SYSTEM IS DESIGNED TO DETAIN AN ADEQUATE VOLUME OF RUNOFF, REDUCE THE VELOCITY OF FLOW THROUGH THE SYSTEM, ALLOW FOR SETTLEMENT OF SUSPENDED SOLIDS AND REGULATE THE DISCHARGE RATE FROM THE SEDIMENT BASIN.
  - 1. SEDIMENT BASINS MUST BE PLACED IN STRATEGIC LOCATIONS WITHIN THE ACTIVE AREAS OF CONSTRUCTION. CONTRIBUTING AREA AND SIZE OF TARGET SOIL PARTICLE WILL DICTATE WHETHER THE SEDIMENT BASIN WILL BE TYPE 1, TYPE 2 OR TYPE 3 SYSTEM.
  - THE USE OF SMALLER PRE-SEDIMENTATION BASINS USED 2 IN CONJUNCTION WITH LARGER PERMANENT RETENTION/DETENTION PONDS ARE EFFECTIVE IN CAPTURING LARGER VOLUMES OF SEDIMENTS. THIS TECHNIQUE REQUIRES PERIODICALLY SCHEDULED REMOVAL OF THE ACCUMULATED SEDIMENTS.
- SEDIMENT BARRIERS (TEMPORARY CONSTRUCTION SITE BMP) PURPOSE: SEDIMENT BARRIERS EITHER OBSTRUCT FLOW OR PREVENT THE PASSAGE OF WATER WHILE CONSTRUCTION ACTIVITIES OCCUR. SMALLER SEDIMENT BARRIERS MAY FUNCTION AS A SMALL SEDIMENT CONTAINMENT SYSTEM OR AS A METHOD TO REDUCE FLOW VELOCITY.
  - THESE CONSTRUCTION BMP'S CAN INCLUDE SYNTHETIC 1 BALES, STAKED SILT FENCE, TURBIDITY BARRIER, STORM SEWER INLET BARRIERS, ROCK BARRIERS, GEOSYNTHETIC BARRIERS. ETC.
  - APPROPRIATE LOCATIONS INCLUDE SITE PERIMETER, BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION, BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES, ALONG THE TOE OF STREAM AND CHANNEL BANKS, AROUND DRAINS AND INLETS LOCATED IN LOW POINTS OR THE DOWNSTREAM EDGE OF AREAS UNDERGOING VERTICAL OR BOX CULVERT CONSTRUCTION ACTIVITIES.
  - INAPPROPRIATE LOCATIONS FOR THESE SAME MEASURES 3 INCLUDE PARALLEL TO A HILLSIDE CONTOUR, IN CHANNELS WITH CONCENTRATED FLOW (UNLESS PROPERLY REINFORCED), UPSTREAM OR DOWNSTREAM OF CULVERTS WITH CONCENTRATED FLOW, IN FRONT OF OR AROUND INLETS ON A GRADE WITH CONCENTRATED FLOW, IN FRONT OF OR AROUND INLETS ON A GRADE WITH CONCENTRATED FLOW OR IN FLOWING STREAMS.
- FLOATING TURBIDITY BARRIER PURPOSE: USED IN PERMANENT V. BODIES OF WATER TO RETAIN SEDIMENT AND FLOATING DEBRIS FROM A CONSTRUCTION AREA SO THAT REMOVAL OR CONTAINMENT OF THE MATERIAL IS POSSIBLE. THEY ARE ALSO USED TO CONTROL MIGRATION OF SUSPENDED SEDIMENTS.

- TYPE 1, LIGHT DUTY, IS USED WHERE THERE IS LITTLE OR 1. NO CURRENT, NO WIND AND NO WAVE ACTION.
- TYPE II, MODERATE DUTY IS USED WITH SOME CURRENT (3.5 PER SECOND) AND SOME EXPOSURE TO WIND.
- TYPE III, HEAVY DUTY, IS USED WITH GREATER CURRENT (3.5- 5.0 FT. PER SECOND) MODERATE WIND AND WAVE ACTION.
- BARRIER MUST BE ATTACHED AT BOTH ENDS AND WEIGHTED 4 ON THE BOTTOM.
- MULTIPLE LINES OF BARRIER MAY BE USED IN SOME CIRCUMSTANCES FOR ADDITIONAL PROTECTION.
- 6. STANDARD PANELS FOR WATER DEPTHS ARE 5.0'. ADDITIONAL PANELS CAN BE USED FOR WATER DEPTHS > 5.0'.
- STAKED TURBIDITY BARRIER PURPOSE: THIS ITEM IS COMMONLY USED IN AREAS WHERE CONTINUOUS CONSTRUCTION ACTIVITIES CHANGE THE NATURAL CONTOURS AND DRAINAGE RUNOFF PATTERNS.
  - COMMONLY USED IN LAKES AND STREAMS AS A SEDIMENT 1. CONTAINMENT SYSTEM. SHOULD NOT BE USED WHERE WATER CURRENTS MOVE THE CURTAIN AND DISLODGE COLLECTED SEDIMENTS.
  - MAXIMUM DEPTH OF PANEL IS 3' 8".
  - POST MUST BE A MINIMUM LENGTH OF 5.0' AND A MINIMUM OF 3 10" OF FABRIC MUST BE EMBEDDED IN THE GROUND.
- INLET PROTECTION SYSTEM PURPOSE: ANY NUMBER OF SEDIMENT iii. BARRIERS THAT EITHER PREVENT SEDIMENT FROM ENTERING AN INLET OR TRAP THE SEDIMENTS ONCE THEY ENTER THE INLET.
  - 1. TYPICAL APPLICATIONS INCLUDE ROCK BARRIERS, FRAME AND FILTER BARRIERS, CURB INLET "SUMP"BARRIER, CURB INLET DIVERSION BERM, CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM OR CURB INLET SUMP.
  - SHOULD BE INSTALLED ONLY WHEN CONSTRUCTION ACTIVITIES ARE ONGOING AND ONLY WHERE SUMP CONDITIONS EXIST.
  - 3 SHOULD NOT BE USED WHEN CONSTRUCTION IS COMPLETE AND SHOULD NOT BE USED IN AREAS WHERE FLOODING COULD ENCROACH INTO THE TRAVEL LANES.
- SOIL TRACKING PREVENTION DEVICE PURPOSE: TEMPORARY STRUCTURES TO ASSIST WITH THE REMOVAL OF SOIL MATERIAL CAPTURED ON VEHICLE TIRES BEFORE THE VEHICLES ENTER THE ROADWAY
  - USE ONE DEVICE PER MILE WITH A MINIMUM OF TWO PER 1. PROJECT.
  - USE ADDITIONAL DEVICES FOR CONSTRUCTION AREAS THAT ARE NOT ADJACENT TO THE ROAD RIGHT OF WAY AND NO ACCESS IS PROVIDED THROUGH A SOIL TRACKING PREVENTION DEVICE.
  - RRR PROJECTS SHOULD BE HANDLED ON A CASE BY CASE 3 BASIS
- 4. CHEMICAL TREATMENTS FOR EROSION AND SEDIMENT CONTROL.
  - CHEMICAL TREATMENT POLYACRYLAMIDES (PAM AND PAM BLENDS) PURPOSE: REDUCE SOIL EROSION THROUGH SOIL BINDING, USED AS A WATER TREATMENT ADDITIVE TO REMOVE SUSPENDED SOLIDS FROM RUNOFF, PROVIDES APPROPRIATE MEDIUM FOR GROWTH OF VEGETATION FOR STABILIZATION AND INCREASES INFILTRATION BY INCREASING SIZE OF SOIL PARTICLE.
    - (1) CAN BE USED ON DISTURBED SOILS. CAN BE USED IN CONJUNCTION WITH OTHER BMP'S TO ENHANCE PERFORMANCE. CAN BE APPLIED IN DISSOLVED FORM WITH WATER, CAN BE USED AS A DRY POWDER, CAN BE USED IN GRANULAR FORM OR MAY BE USED IN THE FORM OF FLOC LOGS.
    - HIGHER CONCENTRATION OF PAM DOES NOT INCREASE THE (2)EFFECTIVENESS OF THE PRODUCT.
    - ACTIVELY WORKED AREAS WILL REQUIRE REAPPLICATION TO REMAIN EFFECTIVE.
    - PAM SHOULD NOT BE USED WHERE THERE IS A POTENTIAL (4)FOR EQUIPMENT CLOGGING OR TOXICITY IS A CONCERN.

- FACILITIES.
- DEWATERING OPERATION 5 BE REMOVED FROM A WORK AREA.
  - LIMITATIONS.
  - WELL-POINT SYSTEMS.

## III. OTHER CONTROLS:

- (1) WASTE DISPOSAL:
  - ACTIVITIES.
  - DETAILED BY THE MANUFACTURER.
  - iii SITE. iv.
  - BY STATE REGULATIONS.
- METHODS:
  - TIMES
- QUALIFY FOR A SJRWMD PERMIT EXEMPTION.
  - (a) SJRWMD: TBD
- (b) CONSTRUCTION GENERIC
- (c) FDEP STATE 404
- SHALL BE NOTIFIED IMMEDIATELY.

REVISIONS					SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT	
DATE	DESCRIPTION	DATE	DESCRIPTION		ENGINEERING DIVISION	STOR
				moffatt & nichol		PR
				ENGINEER OF RECORD: LARRY B FLOOD, P.E. FL REGISTRATION NO. 85560	DELEON ST. AND SWEETWATER CREEK	<u> </u>
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ii. CHEMICAL TREATMENT ALUM PURPOSE: REMOVE SUSPENDED SOLIDS AND POLLUTANTS BY ENMESHMENT AND ABSORPTION INTO ALUM COLLECT FLOCS OF SUSPENDED SEDIMENTS IN RUNOFF AND STORE THEM IN SEDIMENT BASINS OR STORMWATER MANAGEMENT

(1) ALUM IS INJECTED INTO THE FLOW STREAM CONTAINING TURBID WATER. INJECTION IS CONTROLLED BY VARIABLE SPEED CHEMICAL PUMP TO FEED ALUM AT MULTIPLE TREATMENT POINTS. ALUM TREATMENT IS EFFECTIVE IN TREATMENT OF RUNOFF THAT CONTAINS LIMEROCK FROM UNPAVED SURFACES. (2) ALUM TREATMENT REQUIRES CLOSE MONITORING OF DOSAGE COMBINATION WITH OTHER COMPOUNDS MAY VIOLATE TOXICITY REQUIREMENTS AND THE USE OF ALUM MAY LOWER PH LEVELS.

DESCRIPTION: DEWATERING OPERATIONS ARE PRACTICES THAT MANAGE THE DISCHARGE OF TURBID WATER WHEN WATERS OTHER THAN STORMWATER AND ACCUMULATED SURFACE WATERS MUST BE REMOVED FROM A LOCATION SO THAT CONSTRUCTION WORK MAY BE ACCOMPLISHED. THESE WATERS CAN INCLUDE GROUNDWATER, WATER FROM COFFERDAMS, WATER DIVERSIONS AND WATER USED DURING CONSTRUCTION THAT MUST

i. ENVIRONMENTAL AGENCIES ARE ESPECIALLY CONCERNED WITH THE PROTECTION OF WETLANDS FROM DRAW DOWN EFFECTS, PROTECTING RECEIVING BODIES FROM SEDIMENTATION AND POSSIBLE CAPACITY

THREE PRIMARY METHODS OF DEWATERING COMMONLY USED IN FLORIDA ARE RIM-DITCHING, SOCK/PIPE/HORIZONTAL CELLS AND

METHODS FOR CONTAINING SEDIMENTATION CAN INCLUDE A COMBINATION OF BMP'S AND SEDIMENT TRAPS, SEDIMENT BASINS, GRAVITY BAG FILTERS, WEIR TANKS, DEWATERING TANKS, SAND MEDIA/PRESSURIZED BAGS AND CHEMICAL TREATMENTS.

THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION

ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS

NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO WETLANDS OR BURIED ON

ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED

(6) OFF-SITE VEHICLE TRACKING WILL BE CONTROLLED BY THE FOLLOWING

LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPAULIN AT ALL

EXCESS DIRT ON ROAD WILL BE REMOVED DAILY.

(7) STATE AND FEDERAL REGULATIONS: THIS PROJECT IS ANTICIPATED TO

(8) NON-STORMWATER (INCLUDING SPILL REPORTING) THE CONTRACTOR WILL PROVIDE THE COUNTY WITH AN EROSION AND SEDIMENT CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, THE COUNTY

## MWATER POLLUTION EVENTION PLAN

SHEET NO.

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## IV. MAINTENANCE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF ALL EROSION AND SEDIMENT CONTROL DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION AND SEDIMENT CONTROL DEVICES.

- (1) ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR AND ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. ANY DAMAGES TO SEDIMENT AND EROSION CONTROL ITEMS WILL BE CORRECTED IMMEDIATELY.
- (2) SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- SYNTHETIC BALES SHALL BE MAINTAINED TO ENSURE THEIR (3) USEFULNESS AND NOT BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE (4) MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.
- V. INSPECTION:

idoeri

- (1) THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD DAILY RAINFALL IN ACCORDANCE WITH THE NPDES PERMIT.
- (2)ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED WEEKLY BY CONTRACTOR'S PERSONNEL WHO ARE FDEP CERTIFIED STORMWATER MANAGEMENT INSPECTORS.
- THE CONTRACTOR SHALL COMPLETE ALL SWPPP INSPECTION (3) REPORT FORMS REQUIRED FOR THE NPDES PERMIT.
- ALL EROSION AND CONTROL DEVICES WILL BE INSPECTED (4)WITHIN 24 HOURS OF A RAINFALL EVENT THAT IS 0.5 INCHES OR GREATER.
- VI. TRACKING AND REPORTING:
  - (1) THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO THE COUNTY DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE EROSION AND SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS
  - (2) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION AND SEDIMENT CONTROL DEVICES OR LUMP SUM COST OF THE PROJECT.
  - THE CONTRACTOR SHALL USE THE SWPPP CONSTRUCTION (3) INSPECTION REPORT FORM #650-040-03 FOR DAILY INSPECTIONS.

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DATE	DESCRIPTION	DATE	DESCRIPTION		SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	STOR
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				moffatt & nichol	DELEON ST. AND SWEETWATER CREEK	PI
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# RMWATER POLLUTION REVENTION PLAN

SHEET NO.

37

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## TRAFFIC CONTROL PLAN GENERAL NOTES:

- MAINTAIN THE POSTED SPEED LIMITS DURING CONSTRUCTION. 1. STA. 14+70.89 TO STA 19+00.00 25 MPH STA. 19+00.00 TO STA 33+20.00 35 MPH
- 2. THERE ARE NO LANE CLOSURE RESTRICTIONS
- 3. LANE CLOSURES ARE PERMITTED DURING ACTIVE WORK PERIODS ONLY.
- A PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT ONE WEEK 4 PRIOR TO IMPLEMENTING ANY LANE CLOSURES. THE PCMS SHALL BE PLACED IN A LOCATION APPROVED BY THE ENGINEER. THE DISPLAYS ARE AS FOLLOWS.

DISPLAY 1: EXPECT LANE

CLOSURES

DISPLAY 2: MM/DD TΟ

MM/DD

THE CONTRACTOR SHALL UTILIZE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) DURING ALL LANE CLOSURES. THE PCMS SHALL BE PLACED APPROXIMATELY 500 TO 800 FT. IN ADVANCE OF THE FIRST WORK ZONE SIGN IN A LOCATION APPROVED BY 5. THE ENGINEER. THE DISPLAY IS AS FOLLOWS.

DISPLAY 1: RIGHT/LEFT

LANE CLOSED

DISPLAY 2: MERGE

I F FT / RIGHT

- 6. AT LEAST ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.
- VEHICULAR AND PEDESTRIAN TRAFFIC SHALL BE MAINTAINED IN ACCORDING WITH FDOT DESIGN STANDARD PLANS 102-600 SERIES, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS A MINIMUM.
- COMPLETE ROAD CLOSURE WHILE MAINTAINING LOCAL ACCESS IS PERMITTED DURING ROADWAY RECONSTRUCTION. 8.

### PHASE NOTES:

PHASE 1:

THE INTENT OF THIS PHASE IS TO CONSTRUCT GEOWEB WALL, WIDENING AND RECONSTRUCTION PER THE PLANS.

1. PLACE ADVANCED WARNING SIGNS, TRAFFIC CONTROL DEVICES, AND OTHER WORK ZONE SIGNS PER INDEX 102-613, 102-615 AND THE DETOUR PLAN. 2. CONSTRUCT PROPOSED GEOWEB WALL, WIDENING AND RECONSTRUCTION.

PHASE 2:

THE INTENT OF THIS PHASE IS TO MILL AND RESURFACE THE TRAVEL LANES. 1. PLACE ADVANCED WARNING SIGNS, TRAFFIC CONTROL DEVICES, AND OTHER WORK ZONE SIGNS PER INDEX

102-613, 102-615.

- 2. MILL AND RESURFACE PAVEMENT.
- 3. PLACE FRICTION COURSE
- 4. APPLY PERMANENT STRIPING AND SIGNS

← →	TYPICAL TRAFF	IC CONTROL SIGNAGE	rk 🔊
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			moffatt & nichol
			ENGINEER OF RECORD: REBECCA M DAVIS, P.E. FL REGISTRATION NO. 69131

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SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

DELEON ST. AND SWEETWATER CREEK

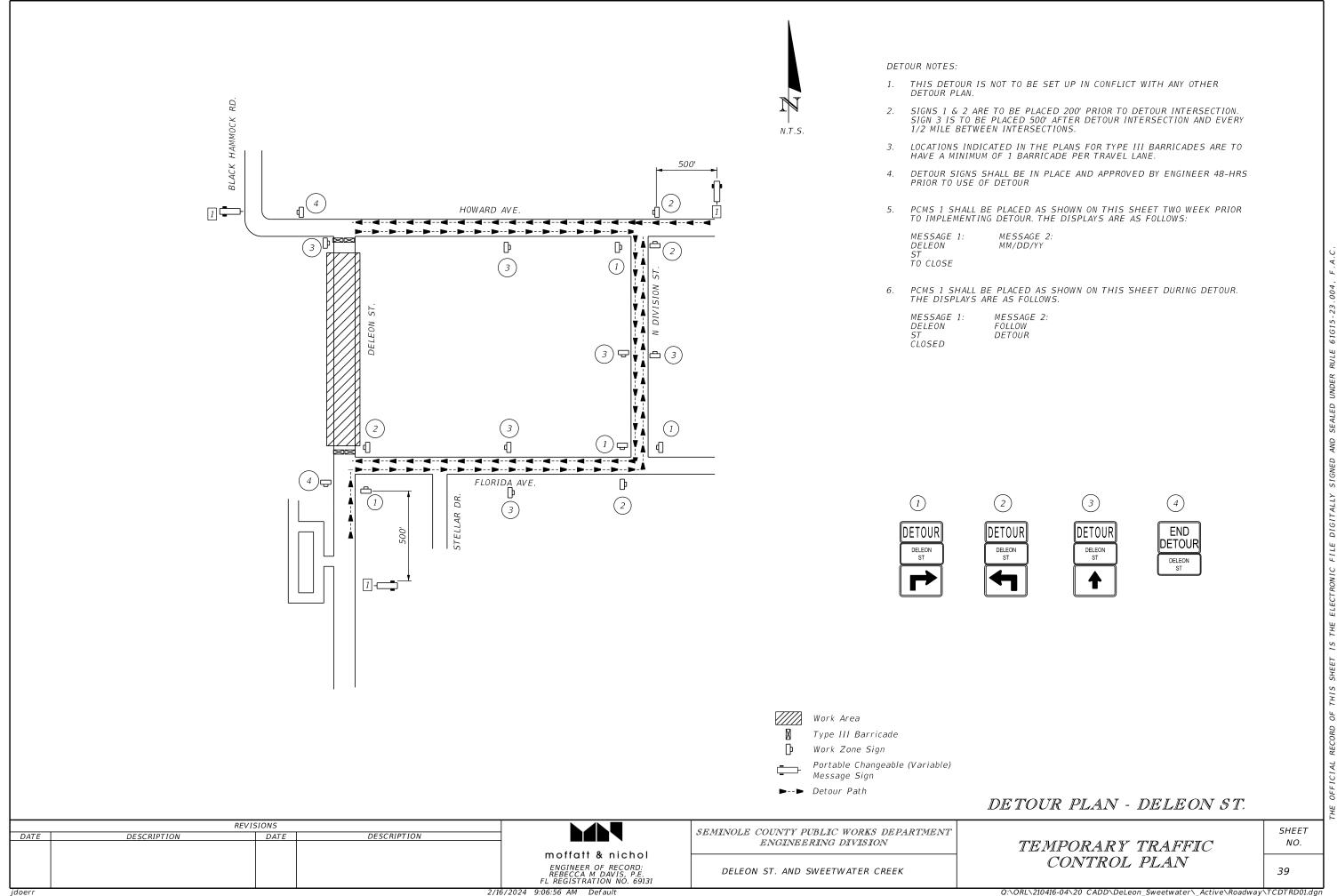
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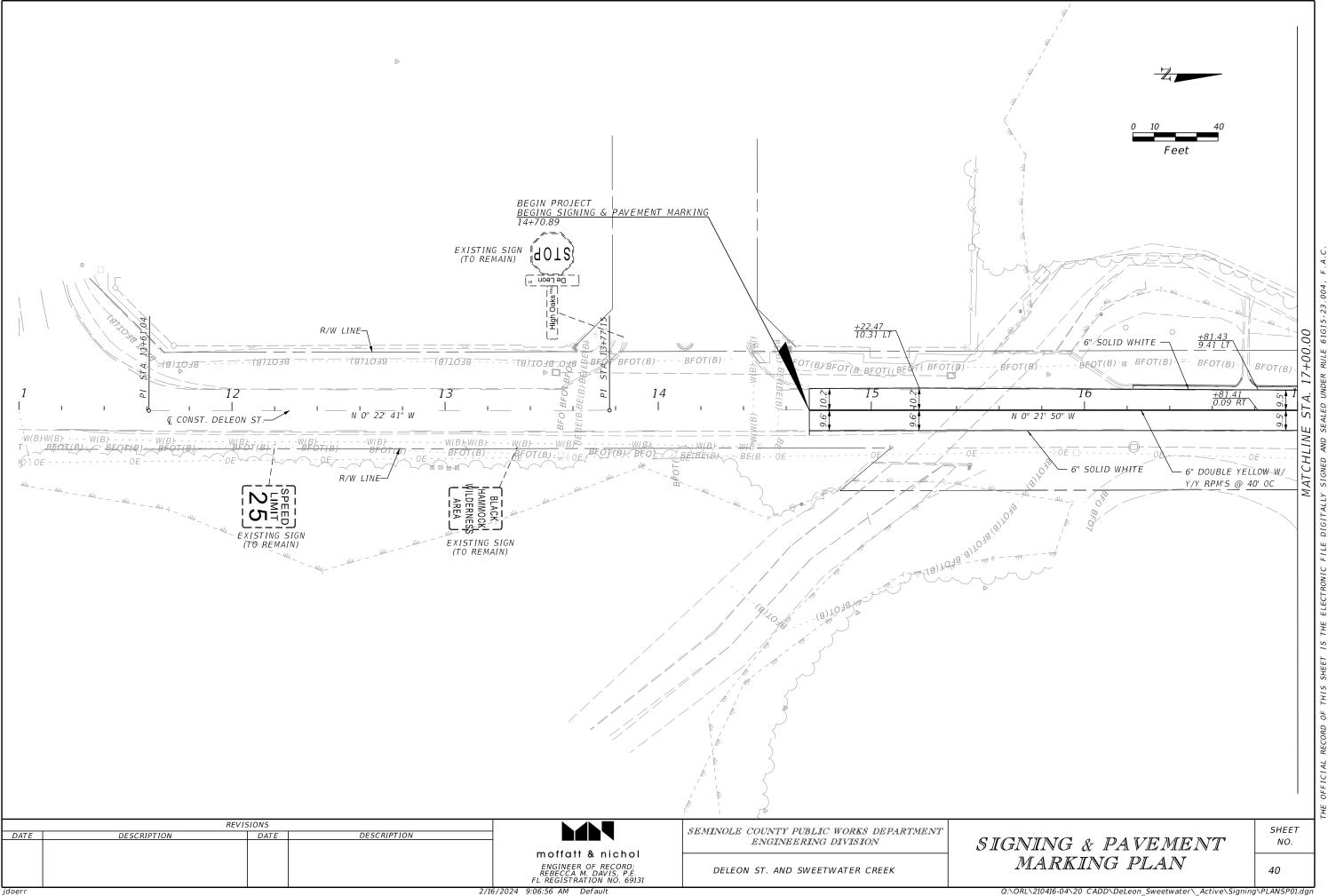
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CONTROL	PLAN

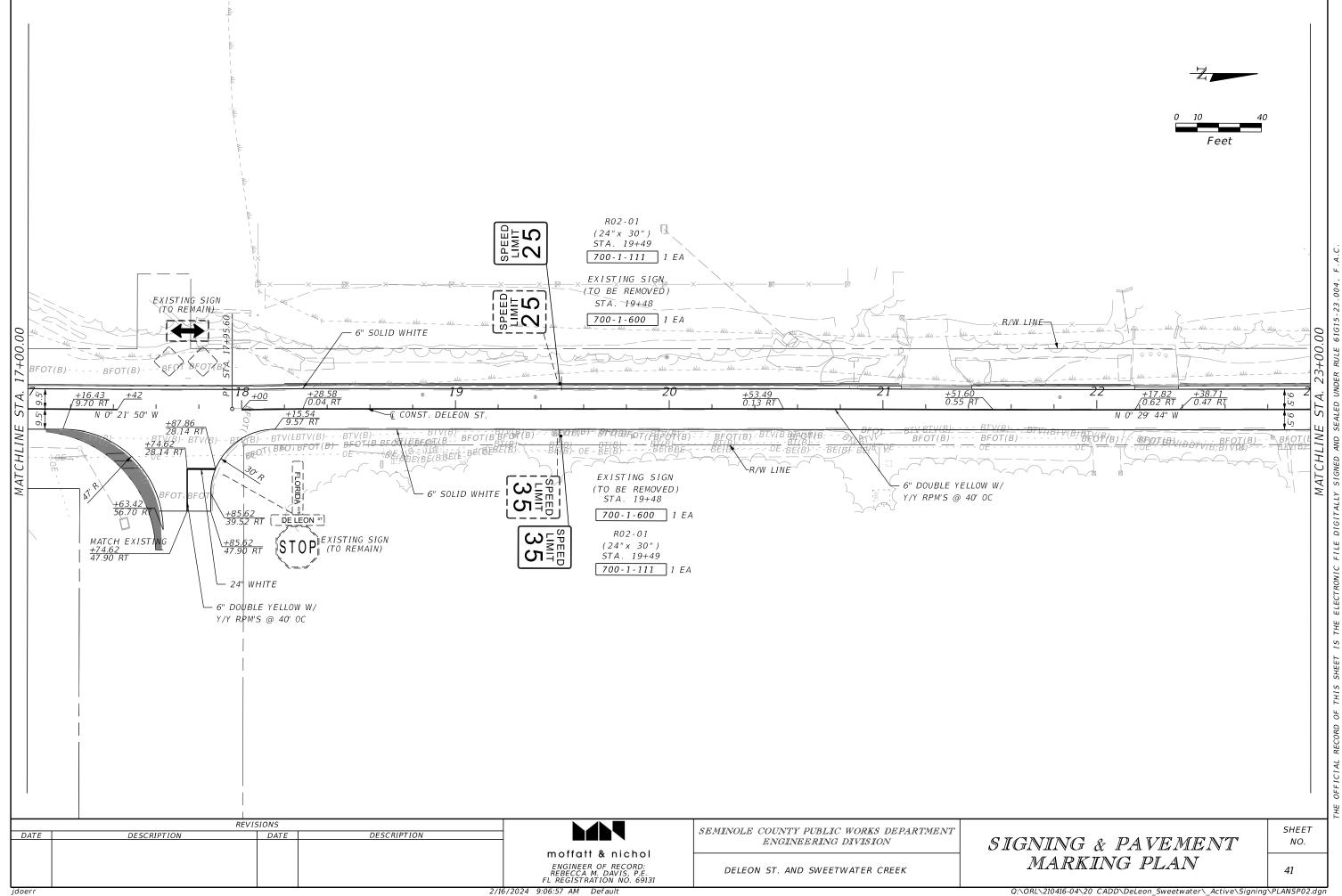
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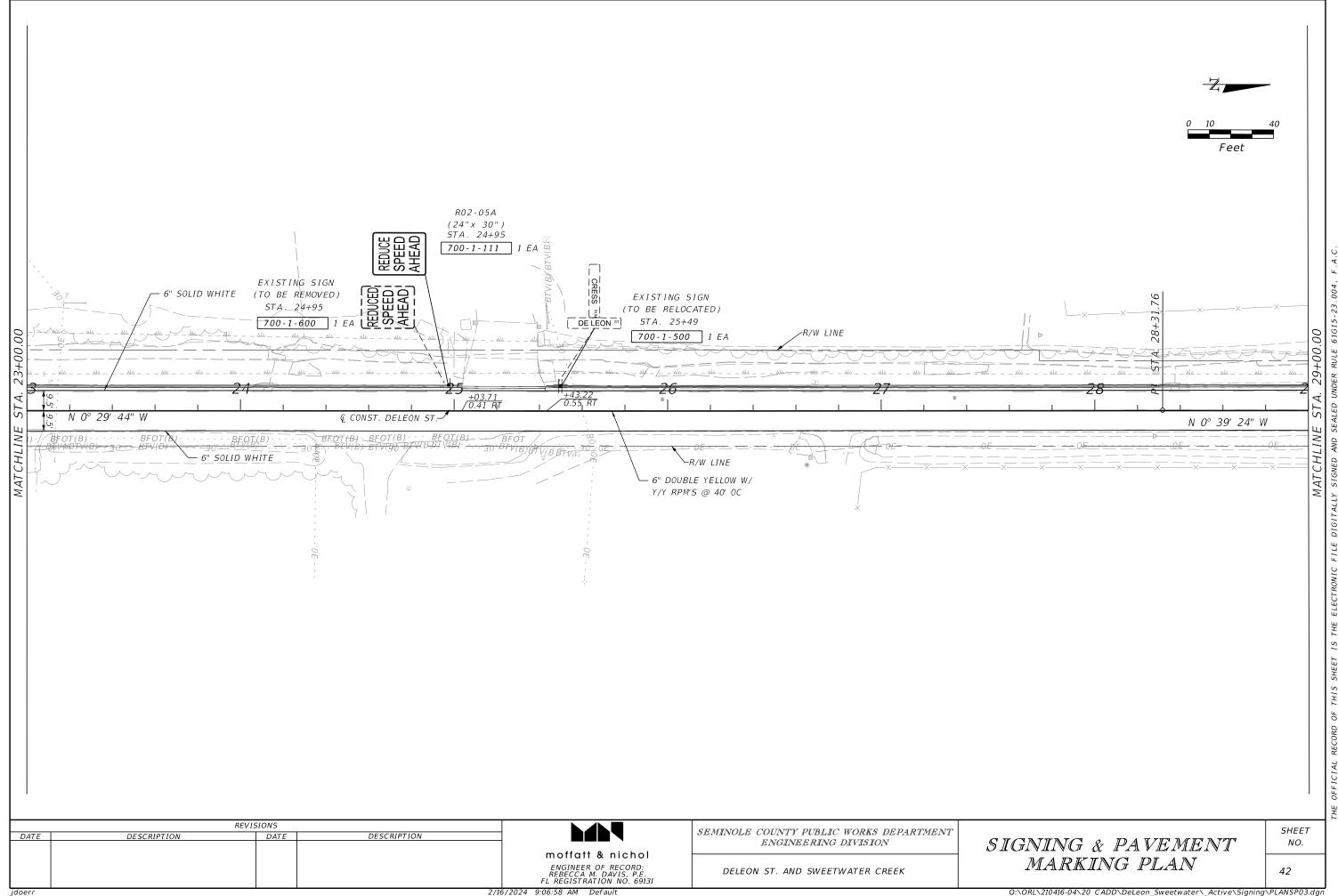
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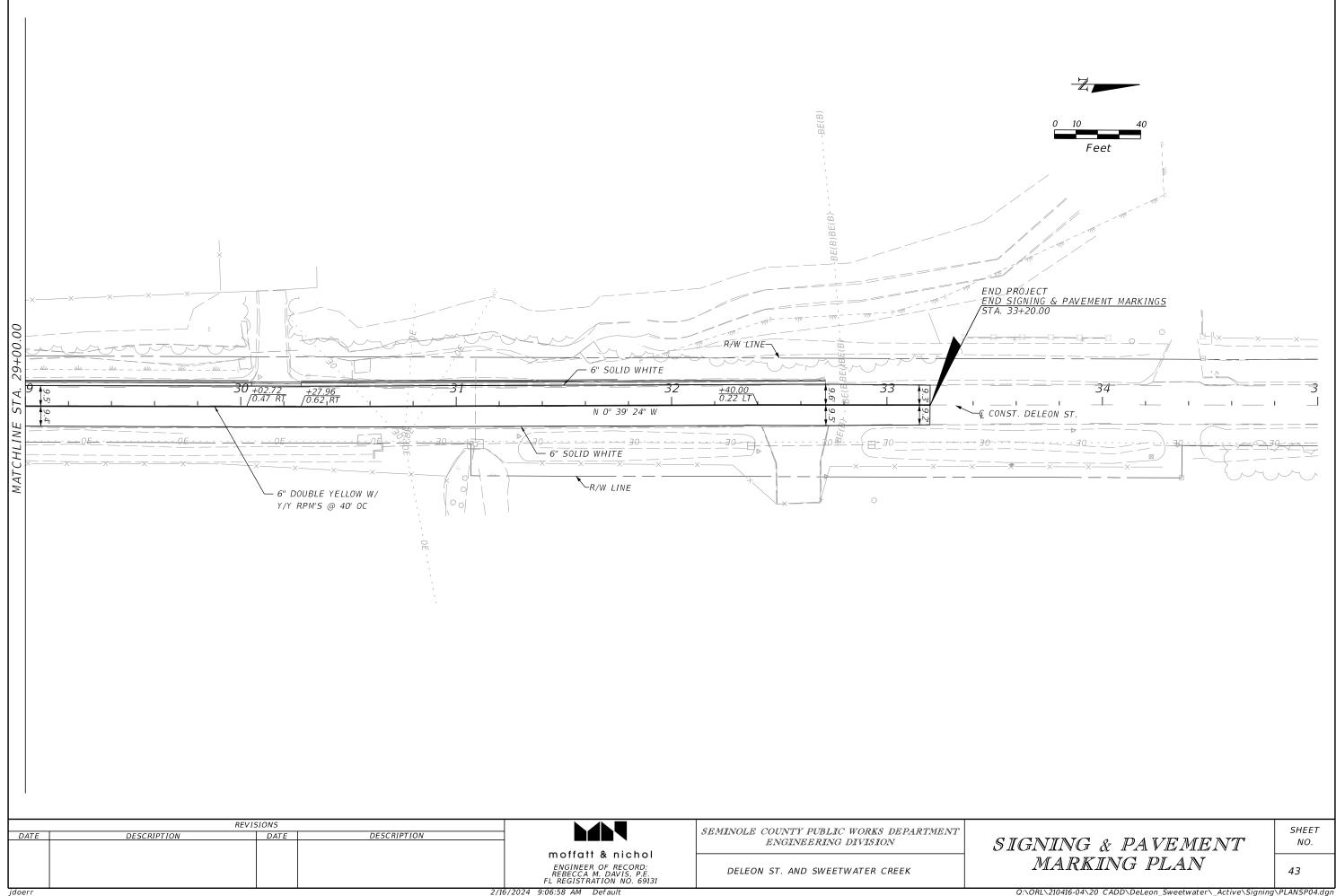








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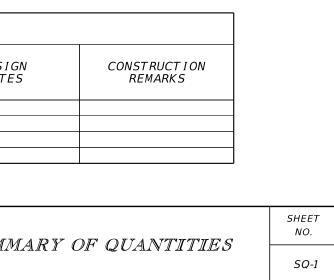
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	SUMMARY OF LUMP SUM ITEMS									
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUAN P	T I TY F	DESIGN NOTES	CONSTRUCTION REMARKS					
0101 1	MOBILIZATION	1								
0102 1	MAINTENANCE OF TRAFFIC	1								

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS	SUMMARY	OF	CLEARING	AND	GRUBBING	&	REMOVAL	ITEMS
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PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA I D	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANT I TY	TOTAL	DESI NOTE
		STA. TO STA.				AREA (AC)	P F	P F	
0110 1 1	CLEARING AND GRUBBING	14+70.89 to 33+20.00	LT/RT	9838	LS	2.100	1.0	1	
0110 4 10	REMOVAL OF EXISTING CONCRETEE	16+22.68 to 32+71.51	LT	9171	SY		364.5	365	

DATE	REVI DESCRIPTION	REVISIONS DATE DESCRIPTION			SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	
				moffatt & nichol ENGINEER OF RECORD: REBECCA M DAVIS, P.E. FL REGISTRATION NO. 69131	DELEON ST. AND SWEETWATER CREEK	S UMN
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					SUMM	ARY O	F PAV	'EMENT						
PAY ITEM	PAY ITEM DESCRIPTION		LOCAT I O	V		SIDE	AREA	ENGTH	HTD1	UNIT	QUANT	TITY	τοτ	4 <i>L</i>
NO.		STA. TO S	STA.	DESCRIPT	FION		ID	ΓEI	MI	-	Р	F	Р	F
0160 4	Type B Stabilization	16+22.68 to 2	1+07.60			LT	7101			SY	134.7	,	2044	
		17+08.68 to 1	7+62.91			RT	6979				64.6			
		18+00.00 to 3	2+71.78			LT/RT	7024				1554.9			
		21+42.17 to 2	2+17.75			LT	7119				21.0			
		22+38.67 to 2	5+03.74			LT	7128				73.6			
		25+43.23 to 3	0+02.77			LT	7136				127.6			
		30+28.01 to 3	2+71.73			LT	7143				67.7			
285701	Optional Base, Base Group 01	17+08.68 to 1	7+62.91			RT	5927			SY	43.8		44	
285709	Optional Base, Base Group 09	18+00.00 to 3	2+71.78			LT/RT	6542			SY	1554.9		1555	
0327 70 4	Milling Exist Asph Pavt, 3" Avg Depth	14+70.89 to 3	3+20.04			LT/RT	4647			SY	2653.8		2654	
0334 1 12	Superpave Asphaltic Conc, Traffic B	14+70.89 to 3	3+20.04				5149			ΤN	218.94		347.2	
		18+00.00 to 3	2+71.78	LT/RT 5445						128.28				
0337 7 81	Asphalt Concrete Friction Course, Traffic B, FC-12.5, PG 76-22	14+70.89 to 3				LT/RT	5531			ΤN	218.94		350.8	
		17+08.68 to 1	7+62.91			RT	5859				3.61			
		18+00.00 to 3	2+71.78			LT/RT	5826				128.28			
			SLIMMAE				DRAI		ITEMS					
			SUMMAR	Y OF MISC		IEOUS	DRAI	NAGE	ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPT	TION	SUMMAR	LOCAT	TION			NAGE	QUAI	IT ITY		DTAL		DES I G NOTES
NO.		TION	SUMMAF	LOCAT ST.	- ION 4.		SIDE	UNIT	QUAI P	F	T C	DT AL		DESIG NOTES
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NO. 0425-001-351 0425-001-351 0425-001-351	INLETS, CURB, TYPE P-5 <10' INLETS, CURB, TYPE P-5 <10' INLETS, CURB, TYPE P-5 <10'	T I ON	SUMMAR	LOCAT ST, 20+86 24+13 28+37	CION A. 5.32 3.14 7.57		SIDE LT LT LT	UNIT EA EA EA	QUAN P 1.0 1.0	F 0		-		DESIG NOTES
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NO. 0425-001-351 0425-001-351 0425-001-351 0425-001-351 0430-175-118	INLETS, CURB, TYPE P-5 <10' INLETS, CURB, TYPE P-5 <10' INLETS, CURB, TYPE P-5 <10' INLETS, CURB, TYPE P-5 <10' CONCRETE PIPE CULVERT, S/CD, CLASS II, 18"	<i>T I ON</i>	SUMMAF	LOCAT ST, 20+86 24+13 28+37 30+51 20+86	<b>A</b> . <b>A</b> . <b>5</b> .32 <b>3</b> .14 <b>7</b> .57 <b>1</b> .78 <b>5</b> .32		SIDE LT LT LT LT LT LT	UNIT EA EA EA LF	QUAN P 1.0 1.0 1.0 1.0 9.0	<i>F</i>		-		DESIG NOTES
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NO. 0425-001-351 0425-001-351 0425-001-351 0425-001-351 0430-175-118 0430-175-118 0430-175-118	INLETS, CURB, TYPE P-5 <10' INLETS, CURB, TYPE P-5 <10' INLETS, CURB, TYPE P-5 <10' INLETS, CURB, TYPE P-5 <10' CONCRETE PIPE CULVERT, S/CD, CLASS II, 18" CONCRETE PIPE CULVERT, S/CD, CLASS II, 18"	Γ I ON		LOCAT ST / 20+86 24+13 28+37 30+51 20+86 24+13 28+37	TION       A.       5.32       3.14       7.57       1.78       5.32       3.14       7.57       1.78       5.32       3.14       7.57       1.78		SIDE LT LT LT LT LT LT LT LT	UNIT EA EA EA EA LF LF LF	QUAN P 1.0 1.0 1.0 1.0 9.0 8.0 8.0 8.0	<i>F</i>		-		DESIG
NO. 0425-001-351 0425-001-351 0425-001-351 0425-001-351 0430-175-118 0430-175-118 0430-175-118	INLETS, CURB, TYPE P-5 <10'			LOCAT ST , 20+86 24+13 28+37 30+51 20+86 24+13 28+37 30+51	TION       A.       5.32       3.14       7.57       1.78       5.32       3.14       7.57       1.78       5.32       3.14       7.57       1.78		SIDE LT LT LT LT LT LT LT LT LT	UNIT EA EA EA LF LF LF LF	QUAN P 1.0 1.0 1.0 1.0 9.0 8.0 8.0 9.0	<i>F</i>		-		DESIG NOTE:
NO. 0425-001-351 0425-001-351 0425-001-351 0425-001-351 0430-175-118 0430-175-118 0430-175-118	INLETS, CURB, TYPE P-5 <10'	<i>F I ON</i>		LOCAT ST , 20+86 24+13 28+37 30+51 20+86 24+13 28+37 30+51	TION       A.       5.32       3.14       7.57       1.78       5.32       3.14       7.57       1.78       5.32       3.14       7.57       1.78		SIDE LT LT LT LT LT LT LT LT LT	UNIT EA EA EA LF LF LF LF	QUAN P 1.0 1.0 1.0 1.0 9.0 8.0 8.0 9.0	<i>F</i>		-		DESIG NOTE:
NO. 0425-001-351 0425-001-351 0425-001-351 0430-175-118 0430-175-118 0430-175-118 0430-175-124	INLETS, CURB, TYPE P-5 <10' INLETS, CURB, TYPE P-5 <10' INLETS, CURB, TYPE P-5 <10' INLETS, CURB, TYPE P-5 <10' CONCRETE PIPE CULVERT, S/CD, CLASS II, 18" CONCRETE PIPE CULVERT, S/CD, CLASS II, 24" AND AND AND AND AND AND AND AND AND AND			LOCAT ST , 20+86 24+13 28+37 30+51 20+86 24+13 28+37 30+51	<b>TION A</b> . <b>5</b> .32 <b>3</b> .14 <b>7</b> .57 <b>9</b> .78 <b>5</b> .32 <b>3</b> .14 <b>7</b> .57 <b>9</b> .78 <b>9</b> .16		SIDE LT LT LT LT LT LT LT L	UNIT EA EA EA LF LF LF LF LF 2 4 4 4 4 4 4 4 4 4 4 4 4 4	QUAN P 1.0 1.0 1.0 9.0 8.0 9.0 10.0	<i>F</i>		F		DE S I G NOT E S
NO. 0425-001-351 0425-001-351 0425-001-351 0425-001-351 0430-175-118 0430-175-118 0430-175-118	INLETS, CURB, TYPE P-5 <10' INLETS, CURB, TYPE P-5 <10' INLETS, CURB, TYPE P-5 <10' INLETS, CURB, TYPE P-5 <10' CONCRETE PIPE CULVERT, S/CD, CLASS II, 18" CONCRETE PIPE CULVERT, S/CD, CLASS II, 24"	DESCRIPTION		LOCAT ST, 20+86 24+13 28+37 30+51 20+86 24+13 28+37 30+51 31+09	TION       A.       5.32       3.14       7.57       1.78       5.32       3.14       7.57       1.78       5.32       3.14       7.57       1.78		SIDE LT LT LT LT LT LT LT L	UNIT EA EA EA LF LF LF LF LF 2 4 4 4 4 4 4 4 4 4 4 4 4 4	QUAN P 1.0 1.0 1.0 9.0 8.0 9.0 10.0	F           0	P	F		UMIN

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	CONSTRUCT REMARK.	<i>I ON</i> <i>S</i>
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					SUMM.	ARY OF R	EVETME	NT				
LOCATION	C L D C	LENGTH	WIDTH	GEOWEE	3 WALL	BEDDING	STONE	RIPRAP - (DITCH L		DESIGN	CONST RUCT I O	
	SIDE	ĒŇ	11	0530	1 6A	0530	74	0530	3 4	NOTES	REMARKS	
STA. TO STA.			м	S	F	TN		TN				
STA. TO STA.				Р	F	Р	F	Р	F			
18+04.13 to 21+07.60	LT	303.5		2579.50								
21+42.18 to 22+15.81	LT	73.6		589.04								
22+38.66 to 25+03.74	LT	265.1		1988.10								
25+43.23 to 30+03.68	LT	460.5		3683.60								
30+28.02 to 31+75.00	LT	147.0		1249.33								
16+77.40 to 17+84.32	LT	106.9				33.84						
20+86.32 to 20+86.32	LT					0.72						
24+13.14 to 24+13.14	LT					0.72						
28+37.57 to 28+37.57	LT					0.72						
30+51.78 to 30+51.78	LT					0.72						
16+77.40 to 17+84.32	LT	106.9						157.00				
20+86.32 to 20+86.32	LT							2.00				
24+13.14 to 24+13.14	LT							2.00				
28+37.57 to 28+37.57	LT							2.00				
30+51.78 to 30+51.78	LT							2.00				
	_											
		SUE	B-TOTAL :	10089.57		36.72		165.00				
			TOTAL :	10089.57		36.72		165.00				

PAY ITEM	DAY ITEM DESCRIPTION	LOCATION	- SIDE	AREA				QUANT I T	Y		TOTAL		DESIGN	CONSTRUCTION	
NO .	PAY ITEM DESCRIPTION	STA. TO STA.		ID		GROSS LENGTH	DEDUC	TIONS	NET LI	ENGTH F	P	F	NOTES	REMARKS	
520 1 10	Concrete Curb & Gutter, Type F	16+22.68 to 16+73.96	LT		LF	53.3	1112	LLINOTTI	53.3	1	1648				
		16+77.69 to 21+08.53	LT			432.2			432.2						
		21+08.53 to 21+41.52	LT			33.0			33.0						
		21+41.52 to 22+17.68	LT			76.2			76.2						
		22+17.68 to 22+38.23	LT			20.5			20.5						
		22+38.67 to 25+03.74	LT			265.1			265.1						
		25+03.74 to 25+42.62	LT			38.9			38.9						
		25+42.63 to 30+05.01	LT			462.4			462.4						
		30+05.01 to 30+28.02	LT			23.0			23.0						
		30+28.02 to 32+71.41	LT			243.4			243.4						
	REVISIONS														
											RTMENT				

	REV	'ISIONS			CENTRICLE COURTER DUDLIC WORKS DEDADTWENT	
DATE	DESCRIPTION	DATE	DESCRIPTION		SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	
				markente Originale et al	EINGLINEERING DIVISION	
				moffatt & nichol		SU
				ENGINEER OF RECORD: REBECCA M DAVIS, P.E. FL REGISTRATION NO. 69131	DELEON ST. AND SWEETWATER CREEK	

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		,	I	I			PERFORM		1			
LOCATION			H	н	PERFOR TURF (		PERFOR		PLAST EROSION			
	SIDE	AREA	ENGTH	WIDTH	0570	1 1	0570	1 2	0571	1 AB	DESIGN NOTES	CONSTRUCTIO
		ID	LEI	I M	S١	/	5)	/	SY		NUTES	REMARKS
STA. TO STA.				Ē	Р	F	Р	F	Р	F		
14+70.56 to 14+81.12	RT		10.6		14.1							
16+77.40 to 17+84.32	LT		106.9		237.6							
31+75.00 to 32+71.73	LT		96.7		107.5							
14+70.56 to 14+81.12	RT		10.6						14.1			
16+77.40 to 17+84.32	LT		106.9						237.6			
31+75.00 to 32+71.73	LT		96.7						107.5			
14+70.89 to 16+12.24	LT	4052					43.2					
14+70.89 to 16+12.24	LT	4052					43.2					
14+70.89 to 17+59.88	RT	4128					97.2					
14+70.89 to 17+59.88	RT	4128					97.2					
16+22.68 to 16+70.53	LT	4057					26.6					
16+22.68 to 16+70.53	LT	4057					26.6					
16+78.13 to 18+19.91	LT	4062					76.7					
17+86.37 to 17+91.22	RT	4071					5.2					
17+86.37 to 17+91.22	RT	4071					5.2					
17+88.65 to 18+19.66	RT	4113					11.7					
17+88.65 to 18+19.66	RT	4113					11.7					
18+19.65 to 21+94.60	RT	4077					114.6					
18+19.65 to 21+94.60	RT	4077					114.6					
22+13.12 to 22+88.41	RT	4082					23.0					
22+13.12 to 22+88.41	RT	4082					23.0					
23+07.23 to 24+33.95	RT	4087					38.7					
23+07.23 to 24+33.95	RT	4087					38.7					
25+40.27 to 26+61.92	RT	4092					37.2					
25+40.27 to 26+61.92	RT	4092					37.2					
26+91.80 to 32+41.95	RT	4097					168.1					
26+91.80 to 32+41.95	RT	4097					168.1					
31+75.00 to 33+20.05	LT	4102					69.9					
32+71.39 to 33+20.05	LT	4102					16.4					
			SUR	-TOTAL :	359.2		1294.0		359.2			
			500	TOTAL :	359		1294.0		359			

TOTAL THIS SHEET GRAND TOTAL SHEET NUMBERS PAY ITEM UNIT DESCRIPTION 40 42 43 41 NO. PLAN FINAL PLAN FINAL PLAN FINAL PLAN FINAL PLAN FINAL PLAN FINAL 0700-001-111 SINGLE POST SIGN, F&I AS 2 2 13 0700-001-500 SINGLE POST SIGN, REMOVE AS 0700-001-600 SINGLE POST SIGN, RELOCATE AS 0706-001-003 RAISED PAVEMENT MARKER, TYPE B ΕA 13 49.00 10 13 49 0711-011-121 THERMOPLASTIC, STANDARD, WHITE, SOLID, 6" LF 458 1231 1200 840 3729 3729.00 THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK LF 0711-011-125 13 13 13.00 0711-011-221 THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6" LF 458 1085 1200 520 3263 3263.00

	REVI	SIONS			SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT	
DATE	DESCRIPTION	DATE	DESCRIPTION			
					ENGINEERING DIVISION	01
				moffatt & nichol		SL
				ENGINEER OF RECORD: REBECCA M DAVIS, P.E. FL REGISTRATION NO. 69131	DELEON ST. AND SWEETWATER CREEK	
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