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THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE LATEST ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICAPABLE TO ANY SPECIFICATION REFERED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

# BOARD OF COUNTY COMMISSIONERS ESCAMBIA COUNTY, FLORIDA ENGINEERING DEPARTMENT CONSTRUCTION MANAGEMENT DIVISION

# PLANS PROPOSED FOR MARTLE GROVE GULLY RESTORATION

# FOR CONSTRUCTION MARCH 2022 100% SUBMITTAL

COMMISSIONERS

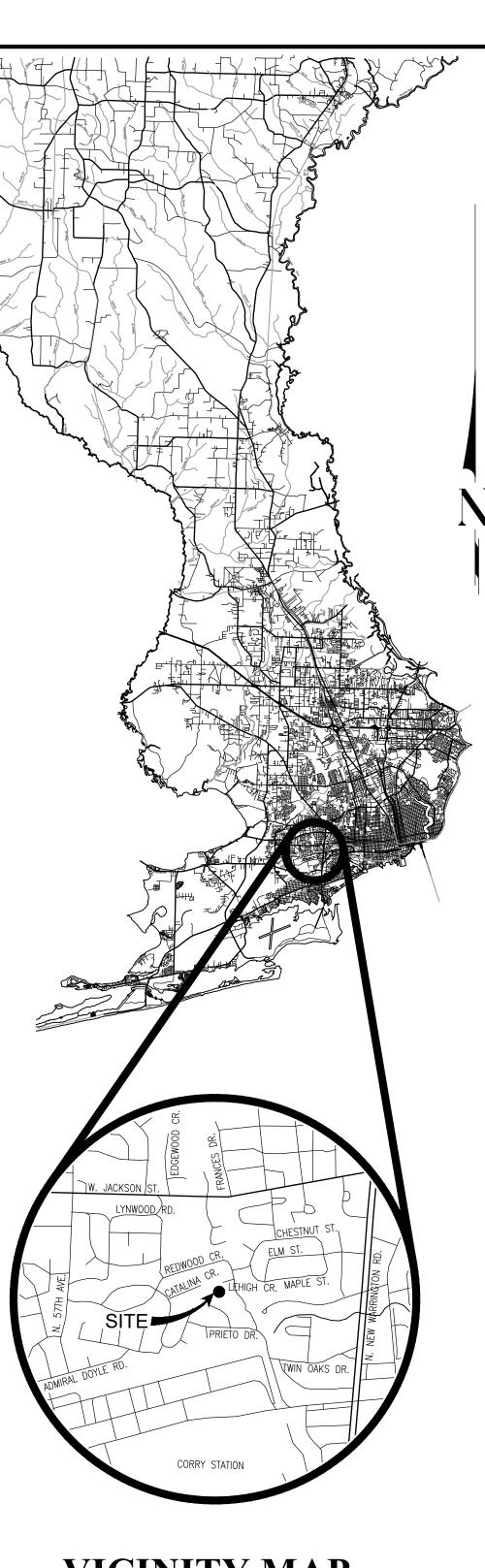
DISTRICT ONE JEFF BERGOSH, CHAIRMAN DISTRICT TWO DOUG UNDERHILL, VICE CHAIRMAN DISTRICT THREE LUMON MAY DISTRICT FOUR ROBERT BENDER, This item has been electronically signed and sealed by Brent Schneider, PE, on 03/09/2022 using a SHA DISTRICT FIVE STEVEN BARRY authentication code.

Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

	PROJECT MANAGER:		
T SCHNE	MARK SOLTERO		
No 70706	SECTION / TOWNSHIP / RANGE:	DISTRICT:	
* * *	56/2S/30W	2	
D. STATE OF	PROJECT ENGINEER:	REG FLA EN	IG NO:
	BRENT SCHNEIDER	70706	
SONAL ENGLIN	SIGNATURE:		DATE
MAL IN			MARCH 2022

# VICINITY MAP

**LENGTH OF PROJECT = \pm 1,400 LF** ±0.27 MI



1.	. THE CONTRACTOR SHALL NOTIFY THE COUNTY DESIGN ENGINEER OR DESIGNEE 48 HOURS PRIOR TO CONSTRUCTION.	1. THE L	OCATION SHOV	WN FOR EXISTING
2	ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY THE ESCAMBIA COUNTY ENGINEER SHALL BE COMPLIED WITH IN EVERY DETAIL.	LOCA	TION OF ALL EX	KISTING UTILITIES
3	ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.	VERI	Y AND/OR EXP	ALL BE NOTIFIED OSE THEIR UTILIT VNERS INCLUDE:
4	THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT EROSION AND ANY OFF SITE SEDIMENT TRANSPORT RESULTING FROM INCREASED RUNOFF DURING CONSTRUCTION BY PROVIDING SILT FENCE AND/OR STAKED HAY BALES AS REQUIRED BY FDOT INDEX 102, THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL INSPECTOR'S MANUAL, 2000 EDITION, OR AS INDICATED ON THE PLANS. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ASSOCIATED DISTURBED AREAS ARE STABILIZED AS TO REDUCE SEDIMENT RUNOFF, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR DESIGNEE.	MR. E P.O.B	RANDON KNIGH DX 15311	ERALD COAST UT 1T 14 PH: (850) 969-6
5	ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ESCAMBIA COUNTY OR ITS DESIGNEE WILL ASSIST CONTRACTOR WITH REQUIRED PERMITS.	MRS. 1625 /	DIANE MOORE	
6	THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING AND/OR CONSTRUCTION.		PHONE - AT&T C	14 PH: (850) 474-5
7	IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS (VERTICAL CONTROL) AS NEEDED DURING CONSTRUCTION. ALL PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR DESIGNEE IMMEDIATELY. ANY ESCAMBIA COUNTY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A HARN/GPS NETWORK MONUMENT OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS ARE DISTURBED OR DESTROYED THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELACEMENT OF THE MONUMENTS AND HAVE THE MONUMENT POSITION DETERMINED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER USING GUIDELINES AS ESTABLISHED BY NATIONAL GEODETIC SURVEY FOR BLUE BOOKING AND APPROVAL.	MR. M 2221 PANA TRAF MRS. 3363	ICHAEL FILLING NDUSTRIAL DRI MA CITY, FL. 324 FIC DEPARTMEI JOHNNY PETTIC VEST PARK PLA	GIM IVE 405 PH: (850) 623- NT - ESCAMBIA CO GREW
8	EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.	3. AT&T WOR		COMPLETE ALL W
9	THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.	4. ALL C	ABLE DAMAGE	MUST BE REPOR G A CELL PHONE.
10	0 EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS.	5. ALL L	OOP DETECTOR	R INSTALLATION S
1	1. ALL ROADWAY CONSTRUCTION SHALL COMPLY WITH THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.			USE CAUTION WH
1:	2. ALL MATERIALS, TESTING AND CONSTRUCTION METHODS SHALL CONFORM TO THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST	UTILI		
1:	EDITION. 3. ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERRED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.			NAND BE PROTEC ND SHALL BE TO <sup>-</sup>
14	4. EXISTING STREET AND ROAD NAME SIGNS ON THE PROJECT SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLES. ALL OTHER EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE TAKEN DOWN AND STOCKPILED WITHIN THE R/W LIMITS BY THE CONTRACTOR AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE. ANY EXISTING SIGNS THAT ARE TO BE RELOCATED AND ARE DAMAGED BEYOND USE BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.	1. PAY IT		HALL INCLUDE CH PES AND DOWNS
1:	5. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE 10' OPEN LANE AT ALL TIMES. NO OPEN EXCAVATION SHALL REMAIN OVER NIGHT. CONTRACTOR SHALL RESTORE ROAD TO TWO LANES OF TRAFFIC AT THE END OF EACH WORK DAY.	2. PAY IT DIAME		TY SHOWS ANTIC
10	6. CONTRACTOR SHALL COMPLY WITH ALL F.D.E.P. AND ARMY CORP. OF ENGINEERS REQUIREMENTS.			HALL INCLUDE SE E LONG-TERM SU
1	7. ONLY ACCESS TO THE ROAD R/W AS SHOWN IS GUARANTEED BY THE COUNTY. PRIVATE R/W REQUIRED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION SHALL BE ACQUIRED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION OR ASSISTANCE FROM THE COUNTY.	4. PAY IT	EM #9 - PRICE S	HALL INCLUDE BE
18	8. IN THE EVENT THAT SURVEY MONUMENTATION OR REFERENCE POINTS ARE MISSING OR HAVE BEEN DESTROYED, PLEASE CONTACT:	5. PAY IT	EM #15 - PRICE S	SHALL INCLUDE A
1: p. 1:	ESCAMBIA COUNTY SURVEYOR 3363 WEST PARK PLACE PENSACOLA, FLORIDA 32505 PH (850) 595-3427	PAY ITEM	SECTION	CATEGORY
MNola	ESCAMBIA COUNTY SURVEYOR 3363 WEST PARK PLACE			
	ESCAMBIA COUNTY SURVEYOR 3363 WEST PARK PLACE PENSACOLA, FLORIDA 32505 PH (850) 595-3427 9. VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS.	PAY ITEN 1 2 3	SECTION 02100- 03100- 03100-	CATEGORY 00101 00102 00105
32:07PM,	ESCAMBIA COUNTY SURVEYOR 3363 WEST PARK PLACE PENSACOLA, FLORIDA 32505 PH (850) 595-3427 9. VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS. 0. GRADED AGGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCROACHES WITHIN TWO (2) FEET OF THE	PAY ITEN 1 2	SECTION 02100- 03100-	CATEGORY 00101 00102
<b>5</b> - 3:32:07PM,	ESCAMBIA COUNTY SURVEYOR 3363 WEST PARK PLACE PENSACOLA, FLORIDA 32505 PH (850) 595-3427 9. VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS. 0. GRADED AGGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCROACHES WITHIN TWO (2) FEET OF THE BOTTOM OF BASE.	PAY ITEM 1 2 3 4 5 6	SECTION 02100- 03100- 03100- 04100- 04100- 04100-	CATEGORY 00101 00102 00105 00101 00104 00106
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ar 08, 2022 – 3:32:07PM, <b>7 7 7 7</b>	<ul> <li>ESCAMBIA COUNTY SURVEYOR 3363 WEST PARK PLACE PENSACOLA, FLORIDA 32505 PH (850) 595-3427</li> <li>VEGETATION ON RW AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.</li> <li>GRADED AGGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCROACHES WITHIN TWO (2) FEET OF THE BOTTOM OF BASE.</li> <li>ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED IN PLANS.</li> <li>ALL COMPACTED FILL SHALL BE PLACED IN 4" LIFTS FOR HAND POWERED TAMPERS AND 8" LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.</li> <li>MAINTENANCE OF TRAFFIC AS PER FDOT INDEX 600.</li> <li>ALL SPEED BUMPS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED TO THE LATEST ESCAMBIA COUNTY DESIGN</li> </ul>	PAY ITEM 1 2 3 4 5 6	SECTION 02100- 03100- 03100- 04100- 04100- 04100-	CATEGORY 00101 00102 00105 00101 00104 00106
Mar 08, 2022 – 3:32:07PM, 2 2 2 2 2 2 2 2 2	<ul> <li>ESCAMBIA COUNTY SURVEYOR 3363 WEST PARK PLACE PENSACOLA, FLORIDA 32505 PH (850) 595-3427</li> <li>VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.</li> <li>GRADED AGGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCROACHES WITHIN TWO (2) FEET OF THE BOTTOM OF BASE.</li> <li>ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED IN PLANS.</li> <li>ALL COMPACTED FILL SHALL BE PLACED IN 4" LIFTS FOR HAND POWERED TAMPERS AND 8" LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.</li> <li>MAINTENANCE OF TRAFFIC AS PER FDOT INDEX 600.</li> </ul>	PAY ITEM 1 2 3 4 5 6 7 8	SECTION 02100- 03100- 03100- 04100- 04100- 04100- 13100- 13100-	CATEGORY 00101 00102 00105 00101 00104 00106 00107 00112
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-Data\Projects\FW8205 -ESC0 - Myrtle Grove Gully\DRAWINGS\FW8205C02.dwg, Mar 08, 2022 - 3:32:07PM, <b>c c c c c c c c c c c c c c c c c c c </b>	<ul> <li>ESCAMBIA COUNTY SURVEYOR 3383 WEST PARK PLACE</li> <li>PENSACOLA, FLORIDA 32505 PH (850) 595-3427</li> <li>9. VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.</li> <li>0. GRADED ACGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCROACHES WITHIN TWO (2) FEET OF THE BOTTOM OF BASE.</li> <li>1. ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED IN PLANS.</li> <li>2. ALL COMPACTED FILL SHALL BE PLACED IN 4" LIFTS FOR HAND POWERED TAMPERS AND 8" LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.</li> <li>3. MAINTENANCE OF TRAFFIC AS PER FDOT INDEX 600.</li> <li>4. ALL SPEED BUMPS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED TO THE LATEST ESCAMBIA COUNTY DESIGN SPECIFICATIONS. ALL COSTS FOR REPLACEMENT OF SAID SPEED BUMPS SHALL BE INCIDENTAL TO OTHER ITEMS AND NO ADDITIONAL COMPENSATION SHALL BE CONSIDERED.</li> <li>5. ALL EXISTING MAILBOXES INTERFERING WITH NEW CONSTRUCTION SHALL BE REPLACED TO REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH POSTAL REQUIREMENTS AND IN ACCORDANCE WITH ESCAMBIA COUNTY TECHNICAL. SPECIFICATION, FDOT DESIGN STANDARDS AND UNITED POSTAL REQUIREMENTS AND IN ACCORDANCE WITH ESCAMBIA COUNTY TECHNICAL. SPECIFICATION, FDOT DESIGN STANDARDS AND UNITED POSTAL REQUIREMENTS AND IN ACCORDANCE WITH ESCAMBIACOUNTY TECHNICAL. SPECIFICATION, FDOT DESIGN STANDARDS AND UNITED POSTAL REQUIREMENTS AND IN ACCORDANCE WITH ESCAMBIACOUNTY TECHNICAL. SPECIFICATION, FDOT DESIGN STANDARDS AND UNITED POSTAL REQUIREMENTS. ALL EXISTING BRICK MAILBOXES WITHIN LIMITS OF CONSTRUCTION OR COUNTY RIGHT OF WAY SHALL BE REMOVED AND PLACED ON THE PROPERTY LINE OF THE OWNER. CONTRACTOR SHALL REPLACE EXISTING BRICK MAILBOX WITH APPROVED PLASTIC BREAK WAY MAILBOX.</li> <li>6. THE CONTRACTOR SHALL AT A MINIMUM, MATCH EXISTING SIGNING AND PAVEMENT MARKINGS.</li> <li>7. WHERE UNSUITABLE MATERIAL. AS DEFINED BY THE COUNTY SPECIFICA</li></ul>	PAY ITEN 1 2 3 4 5 6 7 8 9 10 11 12 13 14	SECTION           02100-           03100-           03100-           04100-           04100-           13100-           13300-           13300-           13400-           07900-	CATEGORY 00101 00102 00105 00101 00104 00106 00107 00102 00107 00112 00101 00109 00110 00101 00101
-ESCO - Myrtle Grove Gully/DRAWINGS/FW8205C02.dwg, Mar 08, 2022 - 3:32:07PM, 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<ul> <li>ESCAMBIA COUNTY SURVEYOR 388 WEST PARK PLACE PENSACOLA, FLORIDA 32505 PH (850) 595-3427</li> <li>9. VEGETATION ON RW AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS.</li> <li>0. BRADED AGGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCROACHES WITHIN TWO (2) FEET OF THE BOTTOM OF BASE.</li> <li>1. ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED IN PLANS.</li> <li>2. ALL COMPACTED FILL SHALL BE PLACED IN 4" LIFTS FOR HAND POWERED TAMPERS AND 8" LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.</li> <li>3. MAINTENANCE OF TRAFFIC AS PER FDOT INDEX 600.</li> <li>4. ALL SPEED BUMPS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED TO THE LATEST ESCAMBIA COUNTY DESIGN SPECIFICATIONS ALL COSTS FOR REPLACEMENT OF SAID SPEED BUMPS SHALL BE INCIDENTIAL TO OTHER ITEMS AND NO ADDITIONAL COMPENSATION SHALL DE CONSIDERED.</li> <li>5. ALL EXISTING MALIBOXES INTERFERING WITH NEW CONSTRUCTION SHALL BE RELOCATED OR REPLACED TO THE LATEST ESCAMBIA COUNTY DESIGN SPECIFICATIONS AND UNITED POSTAL REQUIREMENTS AND IN ACCORDANCE WITH ESCAMBIA COUNTY TECHNICAL SPECIFICATION, SHALL BE CONSIDERED.</li> <li>5. ALL EXISTING MALIBOXES INTERFERING WITH NEW CONSTRUCTION SHALL BE RELOCATED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH POSTAL REQUIREMENTS AND IN ACCORDANCE WITH ESCAMBIA COUNTY TECHNICAL SPECIFICATION, FOOT DESIGN STANDARDS AND UNITED POSTAL REQUIREMENTS AND ACCORDANCE WITH ESCAMBIA COUNTY TECHNICAL SPECIFICATION OR COUNTY TRAFFIC DURING WITH POSTAL REQUIREMENTS AND AND ACCORDANCE WITH ESCAMBIA CONTY TECHNICAL SPECIFICATION, FOOT DESIGN STANDARDS AND UNITED POSTAL REQUIREMENTS AND ADD ACCEDANCE WITH MEDIATEL YOUNTY TECHNICAL SPECIFICATION OR COUNTY TRAFFIC DURING AND PLATC DERKE ANY MALL BUS AND AND PAVEMENT MARKINGS. ALL SIGNING AND PAVEMENT MARKINGS.</li> <li>6. THE CONTRACTOR SHALL AT A MINIMUM, MATCH EXIST</li></ul>	PAY ITEN 1 2 3 4 5 6 7 8 9 10 11 12 13 14	SECTION           02100-           03100-           03100-           04100-           04100-           13100-           13300-           13300-           13400-           07900-	CATEGORY 00101 00102 00105 00101 00104 00106 00107 00102 00107 00112 00101 00109 00110 00101 00101

GENERAL NOTES:

# UTILITY NOTES:

THE LOCATION SHOWN FOR EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR AGREES TO BE COMPLETELY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES.

UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE UTILITY OWNER CAN SPOT VERIFY AND/OR EXPOSE THEIR UTILITIES.

SEWER/WATER - EMERALD COAST UTILITY AUTHORITY MR. BRANDON KNIGHT P.O.BOX 15311

PENSACOLA, FL. 32514 PH: (850) 969-6650 NATURAL GAS - PENSACOLA ENERGY

MRS. DIANE MOORE 1625 ATWOOD DRIVE PENSACOLA, FL. 32514 PH: (850) 474-5319

TELEPHONE - AT&T CORPORATION MR. MICHAEL FILLINGIM 2221 INDUSTRIAL DRIVE PANAMA CITY, FL. 32405 PH: (850) 623-3654

TRAFFIC DEPARTMENT - ESCAMBIA COUNTY PUBLIC WORKS MRS. JOHNNY PETTIGREW 3363 WEST PARK PLACE PENSACOLA, FL. 32505 PH:(850) 595-3404

AT&T FLORIDA WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM - 4:30 PM, MONDAY THRU FRIDAY. NO NIGHT OR WEEKEND WORK.

ALL CABLE DAMAGE MUST BE REPORTED TO THE ATT FLORIDA REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR 877-737-2478 IF USING A CELL PHONE.

ALL LOOP DETECTOR INSTALLATION SHALL BE DONE AS PER FDOT INDEX 17781.

CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.

UTILITIES TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. NECESSARY REPAIRS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS AND SHALL BE TO THE SATISFACTION OF UTILITY OWNERS.

## / ITEM NOTES:

PAY ITEM #2 - PRICE SHALL INCLUDE CHAIN LINK AND/OR WOODEN FENCE REMOVAL. INCLUDES CLEANING/FLUSHING OF THE UPSTREAM 60" PIPES AND DOWNSTREAM 72" PIPES AS STATED ON THE THE PLAN SHEETS.

PAY ITEM #3 - QUANTITY SHOWS ANTICIPATED AMOUNT OF TREES >12" IN DIAMETER. PRICE SHALL INCLUDE TREES <12" DIAMETER.

PAY ITEM #8 - PRICE SHALL INCLUDE SEED BED MATERIAL AND PREPARATION. PRICE SHALL ALSO INCLUDE MEASURES REQUIRED TO ENSURE LONG-TERM SURVIVABILITY OF VEGETATION.

PAY ITEM #9 - PRICE SHALL INCLUDE BEDDING STONE.

PAY ITEM #15 - PRICE SHALL INCLUDE ANCHORS/PINS PER MANUFACTURER'S RECOMMENDATIONS.

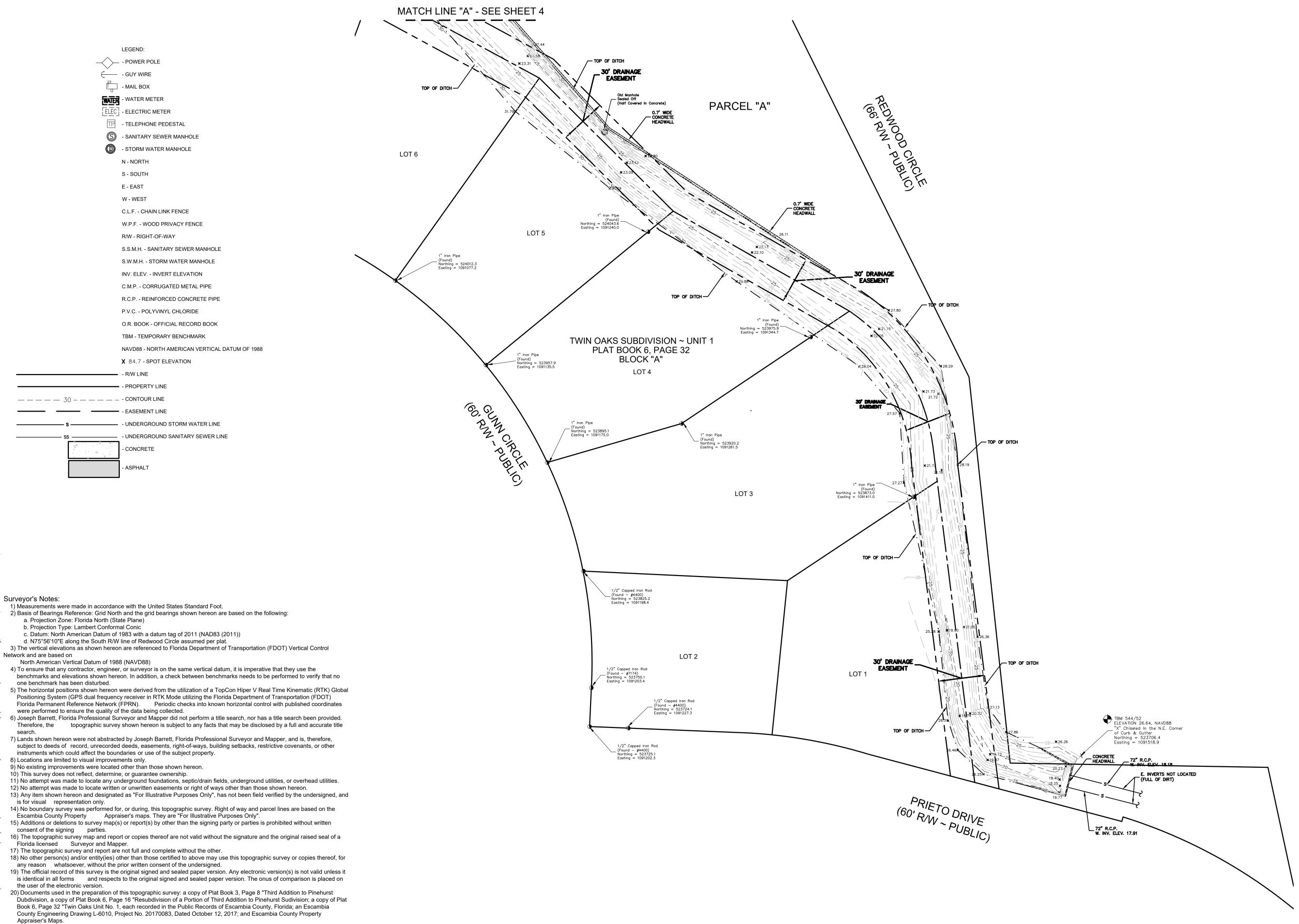
	SUMMARY OF QUANTITIES								
ТЕМ	SECTION	CATEGORY	SUB-CATEGORY	QUANTITY	UNITS				
	02100-	00101	MOBILIZATION, 0-15 MILES	1	EA				
	03100-	00102	CLEARING AND GRUBBING (INCLUDING TREES UNDER 12" DIA.)	5600	SY				
	03100-	00105	REMOVE TREE, 13"-24"	40	EA				
	04100-	00101	EARTHWORK EXCAVATION BY MACHINE	30	CY				
	04100-	00104	EARTHWORK BORROW (FILL)	140	CY				
	04100-	00106	EARTHWORK ESTABLISHING GRADE	5600	SY				
	13100-	00107	ARGENTINE BAHIA SOD, STAKED	4000	SY				
	13100-	00112	SEED AND MULCH ROAD AND SHOULDERS	3000	SY				
	13200-	00101	18" DEPTH RIP RAP RUBBLE W/ 4" BEDDING STONE AND GEOTEXTILE	784	SY				
)	13300-	00109	ESTABLISH, QUANTIFY, AND SUBMIT AN APPROVED EROSION CONTROL PLAN PREPARED BY A CERTIFIED TECHNICIAN	1	EA				
1	13300-	00110	CONSTRUCT STABILIZED GRAVEL CONSTRUCTION ENTRANCE	111	SY				
2	13400-	00101	REMOVE EXISTING RUBBLE (STONE RIP RAP OR CONCRETE)	60	CY				
3	07900-	00100	MOT BASED ON SECTION 07900-0100 AND SUB TOTAL OF PRODUCT	1	EA				
ŀ	01100-	00100	PERFORMANCE AND PAYMENT BOND (REQUIRED FOR PROJECTS OVER \$25,000.00)	1	EA				
5			BALANCE OF LINE ITEM:3,400 SY OF TURF REINFORCMENT MAT (TRM)	3400	SY				

ELECTRIC - GULF POWER MR. CHAD SWAILS 5120 DOGWOOD DRIVE MILTON, FL. 32570 PH: (850) 244-4747

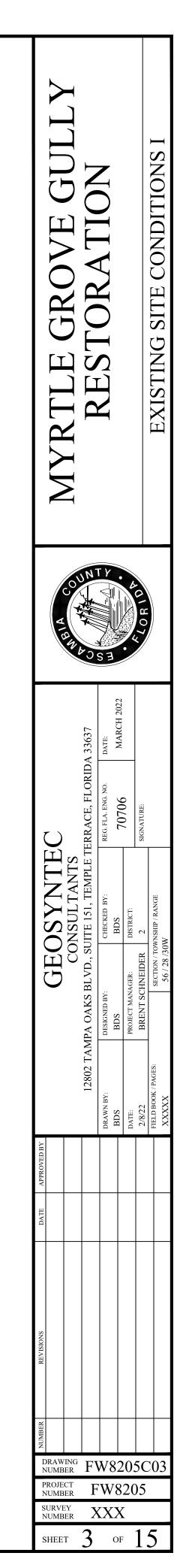
CABLE - COX COMMUNICATIONS MR. TROY YOUNG 2421 EXECUTIVE PLAZA PENSACOLA, FL. 32504 PH: (850) 232-5044

SUNSHINE STATE ONE-CALL 7200 LAKE ELLENOR DRIVE, SUITE 200 ORLANDO, FL. 32809 PH: (800) 432-4770

Montest       Interview       Interview       Interview       Interview       Market Barbar       Market Barbar         Interview													
March and		N S	N P										
RXX       RXX       RCONSULTANTS       CONSULTANTS         RXX       12807 TAMPA OAKS BLVD., SUTTE 151, TEMPLE TERRACE, FLORIDA 33637       12802 TAMPA OAKS BLVD., SUTTE 151, TEMPLE TERRACE, FLORIDA 33637         RXX       12802 TAMPA OAKS BLVD., SUTTE 151, TEMPLE TERRACE, FLORIDA 33637       12802 TAMPA OAKS BLVD., SUTTE 151, TEMPLE TERRACE, FLORIDA 33637         RXX       12802 TAMPA OAKS BLVD., SUTTE 151, TEMPLE TERRACE, FLORIDA 33637       10706       INTEL         RXX       10706       INTEL       INTEL       INTEL         RXXX       56/28/30W       10706       INTEL       INTEL		UMB URVI	IUMB ROJE	DR A TT			CE(	JINYSC	Ũ		ALA		
XX       I2802 TAMPA OAKS BLVD, SUITE 151, TEMPLE TERRACE, FLORIDA 33637       I2802 TAMPA OAKS BLVD, SUITE 151, TEMPLE TERRACE, FLORIDA 33637       I2802 TAMPA OAKS BLVD, SUITE 151, TEMPLE TERRACE, FLORIDA 33637         DAMW BY:       DRAW BY:		ER EY	ER CT	INC			CC	<b>NSULTANTS</b>					
DRAWN BY:       DESIGNED BY:       DEGRUED BY:       DEGRUED BY:       DATE:       DEGRUED BY:       DATE:				-		12802 TA	MPA OAKS BLVD., St	UITE 151, TEMPLE 1	TERRACE, FLORID.				
BDS     BDS     T0706     MARCH 202       DATE:     DATE:     PROJECT MANAGER:     DISTRICT:       DATE:     DATE:     PROJECT MANAGER:     DISTRICT:       DATE:     DATE:     PROJECT MANAGER:     DISTRICT:       DATE:     DATE:     DISTRICT:     DISTRICT:       DATE:     DISTRICT:     DISTRICT:     DISTRICT:       DATE:     DISTRICT:     DISTRICT:     DISTRICT:       DATE:     DISTRICT:     DISTRICT:     DISTRICT:       TATURE:     DISTRICT:     DISTRICT:     DISTRICT:       TATURE:     SECTION / TOWNSHIP / RANGE     DISTRICT:     DISTRICT:       DATE:     DISTRICT:     DISTRICT:     DISTRICT:       TATURE:     DISTRICT:     DISTRICT:     DISTRICT:       DATE:     DISTRICT:     DISTRICT:     DISTRICT:       DATE:     DISTRICT:     DISTRICT:						DRAWN BY:	DESIGNED BY:	CHECKED BY:	REG. FLA. ENG. NO.	DATE:			
DATE:     DATE:     DATE:     DISTRICT:     DISTRICT:       2/8/22     REONT SCHNEIDER     2     SIGNATURE:       1/2/8/20     SECTION / TOWNSHIP / RANGE     3       1/2/8/20     SECTION / TOWNSHIP / RANGE     3						BDS	BDS	BDS	20706	MARCH 2022			
2/8/22         BRENT SCHNEIDER         2         SIGNATURE:         2/0 R 10           FIELD BOOK / PAGES:         SECTION / TOWNSHIP / RANGE         SECTION / TOWNSHIP / RANGE         2000						DATE:	<b>PROJECT MANAGER:</b>	DISTRICT:	00101				
FIELD BOOK / PAGES:     SECTION / TOWNSHIP / RANGE       XXXXX     56 / 28 / 30 W	1	s)				2/8/22	BRENT SCHNEIDER		SIGNATURE:		-101807		
- XXXX 56/28/30W	5		C <b>O</b>			FIELD BOOK / PAGES:	SECTION / TO	WNSHIP / RANGE				DBOILECT NOTES	
			2			XXXXX	56/28/30	MC					

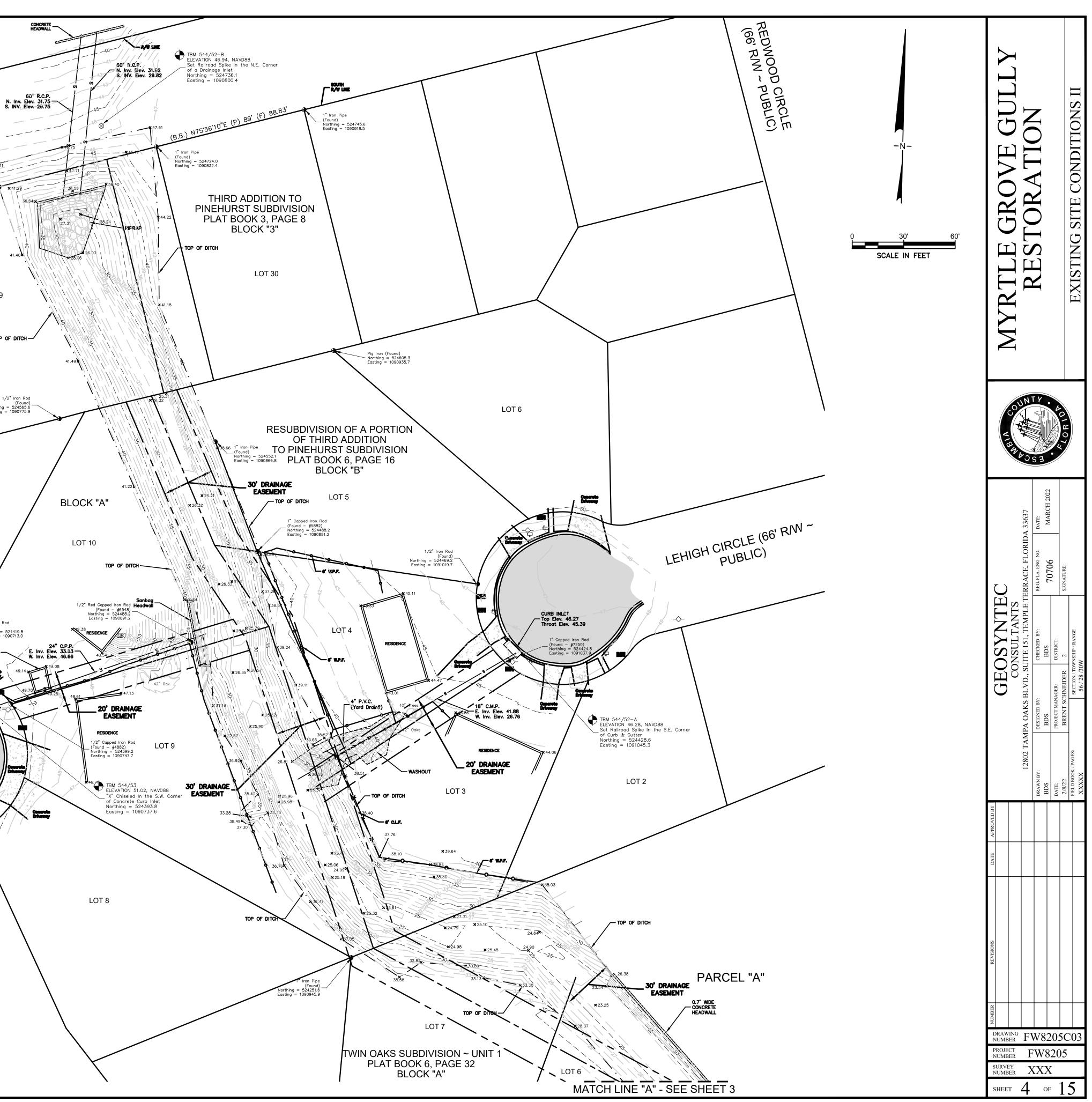


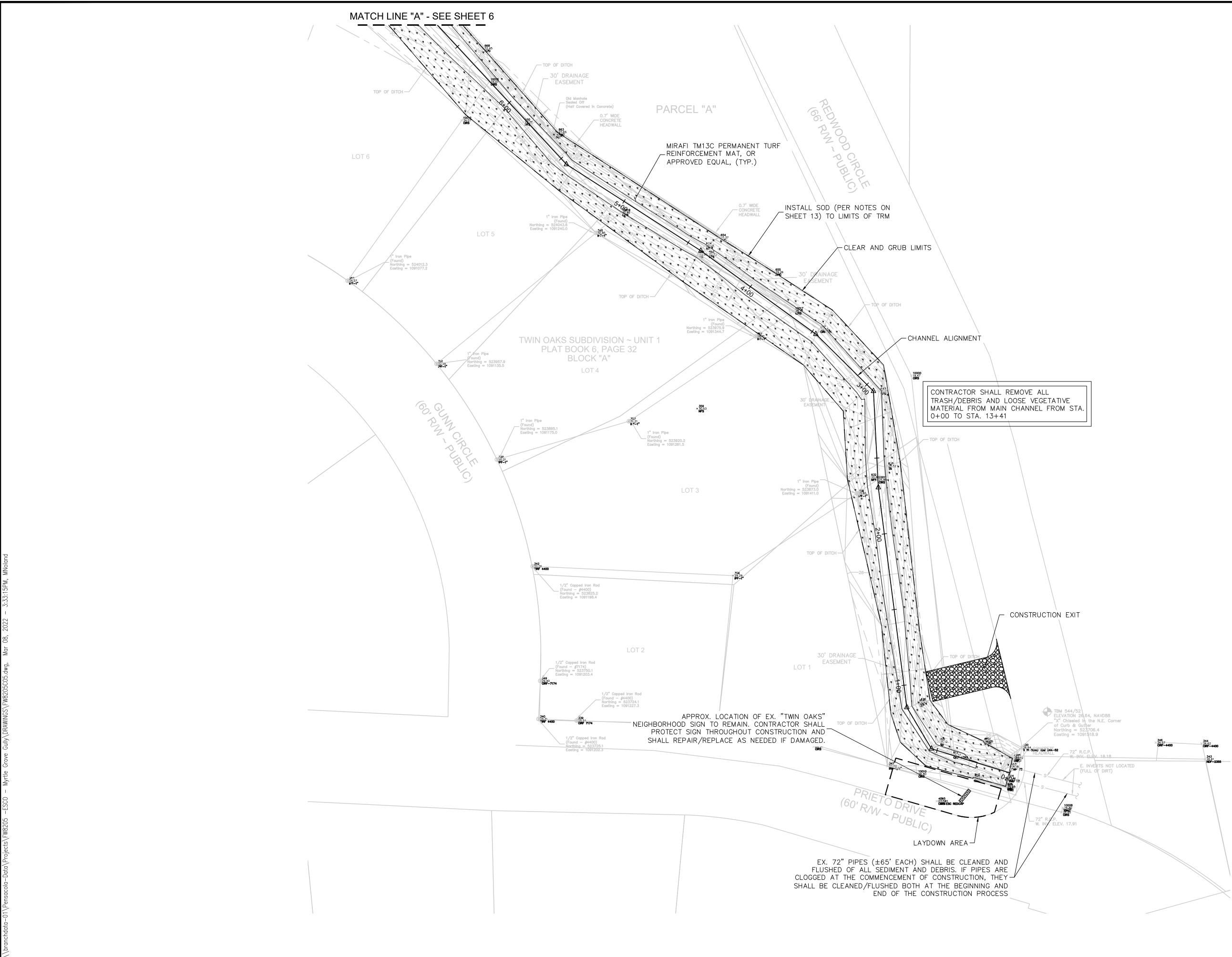
21) Easement width shown hereon is based on Plats of record & best fit based on field monumentation.

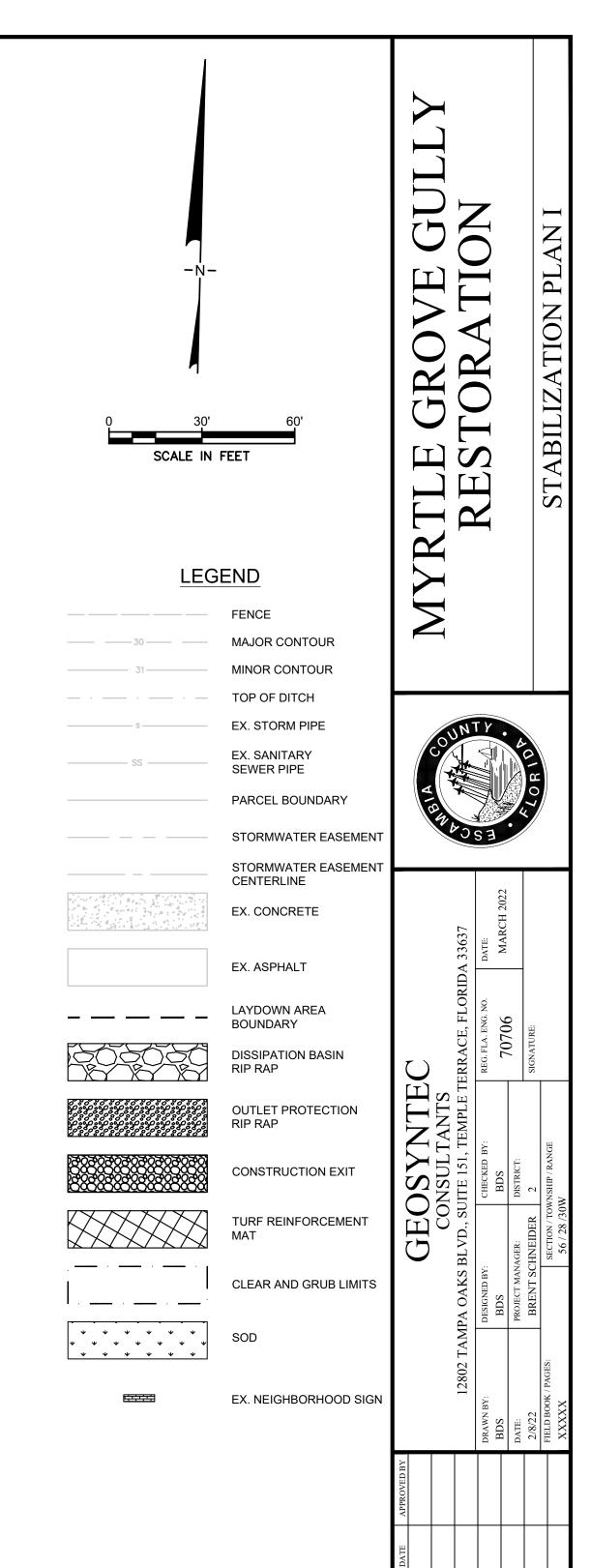


SCALE IN FEET

$\wedge$		
$\rightarrow$	- POWER POLE	- CIRCLE
	- GUY WIRE	DEDWOOD DIBLIC)
لا <del>ر</del> ا	- MAIL BOX	REDWOOD CIRCLE (66' R/W ~ PUBLIC)
WATER		
	- ELECTRIC METER	
IT	- TELEPHONE PEDESTAL	
S	- SANITARY SEWER MANHOLE	1" Capped Iron Rod (Found - #2843)
$\bigcirc$	- STORM WATER MANHOLE	1" Iron Pipe (Found)
	N - NORTH	Northing = 524682.9 Easting = 1090667.4
	S - SOUTH	
	E - EAST	
	W - WEST	
	C.L.F CHAIN LINK FENCE	LOT 29
	W.P.F WOOD PRIVACY FENCE	
	R/W - RIGHT-OF-WAY	
	S.S.M.H SANITARY SEWER MANHOLE	тор
	S.W.M.H STORM WATER MANHOLE	
	INV. ELEV INVERT ELEVATION	
	P.V.C POLYVINYL CHLORIDE	1/ Northing
	O.R. BOOK - OFFICIAL RECORD BOOK	Easting =
	TBM - TEMPORARY BENCHMARK NAVD88 - NORTH AMERICAN VERTICAL DATUM OF 1988	
	X 84.7 - SPOT ELEVATION	
	- R/W LINE	
	- PROPERTY LINE	
20	- CONTOUR LINE	-
	- EASEMENT LINE	
s	- UNDERGROUND STORM WATER LINE	
	- UNDERGROUND SANITARY SEWER LINE	
	- CONCRETE	
4		
	- ASPHALT	LOT 11
		1/2" Iron Ro (Found) Northing =
		Easting = 1
		Corrector Building -
Surveyor's Notes:		CURP INLET Top Elav. 51.02 Throat Elev. 49.76
<ol> <li>Measurements were made in accordance</li> <li>Basis of Bearings Reference: Grid North</li> </ol>	e with the United States Standard Foot. n and the grid bearings shown hereon are based on the following:	Throat Elev. 49.76
a. Projection Zone: Florida North (Sta b. Projection Type: Lambert Conform		3 <sup>d</sup> Clay-
c. Datum: North American Datum of	1983 with a datum tag of 2011 (NAD83 (2011))	8" Clay
3) The vertical elevations as shown hereou	n are referenced to Florida Department of Transportation (FDOT) Vertical Control	TALINA CIRCLE
Network and are based on North American Vertical Datum of 198	8 (NAVD88)	CATALINA CIRCLE (66' R/W ~ PUBLIC). Top Elev. 47.73 S. Inv. Elev. 47.62 N. Inv. Elev. 47.62 N. Inv. Elev. 47.82
benchmarks and elevations shown here	, or surveyor is on the same vertical datum, it is imperative that they use the on. In addition, a check between benchmarks needs to be performed to verify that no	(66 10 N. Inv. Eiev. 47.82
one benchmark has been disturbed. 5) The horizontal positions shown hereon	were derived from the utilization of a TopCon Hiper V Real Time Kinematic (RTK) Global	
	y receiver in RTK Mode utilizing the Florida Department of Transportation (FDOT)	
were performed to ensure the quality of	the data being collected.	
Therefore, the topographic survey	rveyor and Mapper did not perform a title search, nor has a title search been provided. shown hereon is subject to any facts that may be disclosed by a full and accurate title	
	ed by Joseph Barrett, Florida Professional Surveyor and Mapper, and is, therefore,	Opporte Diverge
subject to deeds of record, unrecorded instruments which could affect the boun	deeds, easements, right-of-ways, building setbacks, restrictive covenants, or other daries or use of the subject property.	
<ul><li>8) Locations are limited to visual improven</li><li>9) No existing improvements were located</li></ul>		
10) This survey does not reflect, determine		
12) No attempt was made to locate written	or unwritten easements or right of ways other than those shown hereon.	LOT 7
is for visual representation only.	d as "For Illustrative Purposes Only", has not been field verified by the undersigned, and	
Escambia County Property Appra	r, or during, this topographic survey. Right of way and parcel lines are based on the iser's maps. They are "For Illustrative Purposes Only".	
<ol> <li>Additions or deletions to survey map(s consent of the signing parties.</li> </ol>	) or report(s) by other than the signing party or parties is prohibited without written	
	rt or copies thereof are not valid without the signature and the original raised seal of a per.	
17) The topographic survey and report are		
any reason whatsoever, without the p	prior written consent of the undersigned.	
is identical in all forms and respects	original signed and sealed paper version. Any electronic version(s) is not valid unless it s to the original signed and sealed paper version. The onus of comparison is placed on	
	this topographic survey: a copy of Plat Book 3, Page 8 "Third Addition to Pinehurst	
Book 6, Page 32 "Twin Oaks Unit No. 1	e 16 "Resubdivision of a Portion of Third Addition to Pinehurst Sudivision; a copy of Plat , each recorded in the Public Records of Escambia County, Florida; an Escambia	
	roject No. 20170083, Dated October 12, 2017; and Escambia County Property	
	ed on Plats of record & best fit based on field monumentation.	

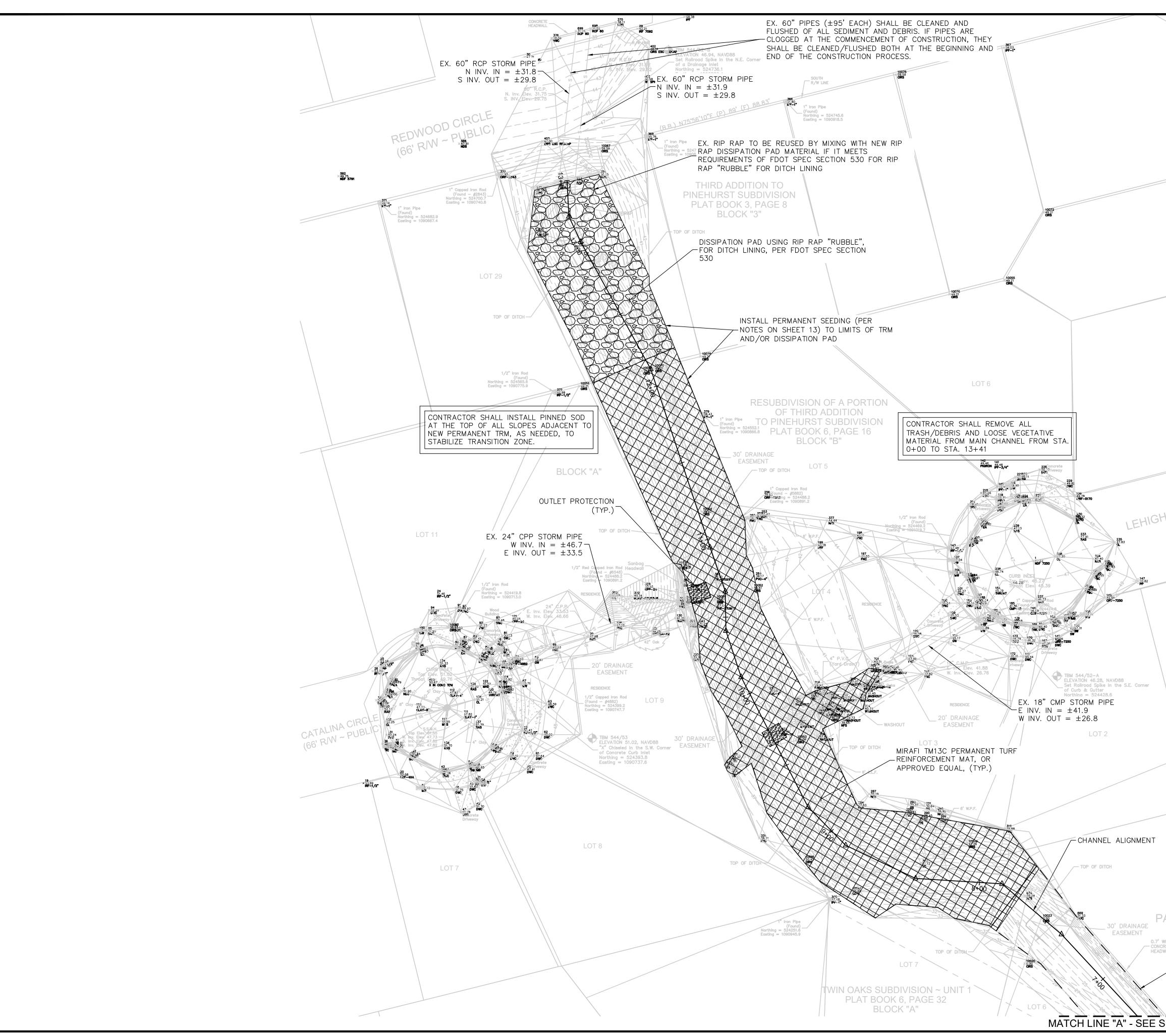




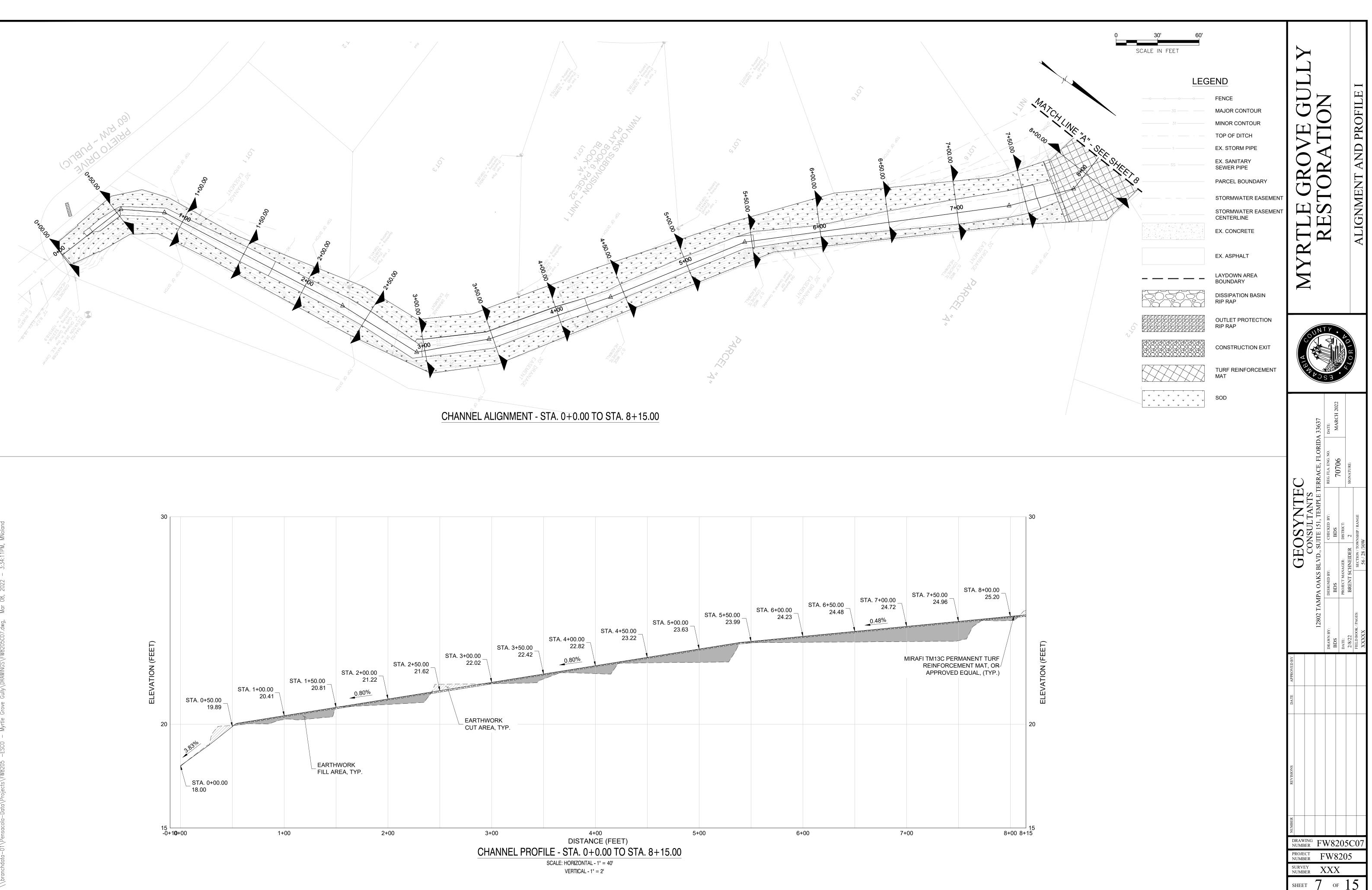


PROJECT NUMBER FW8205 SURVEY NUMBER 5 OF 15

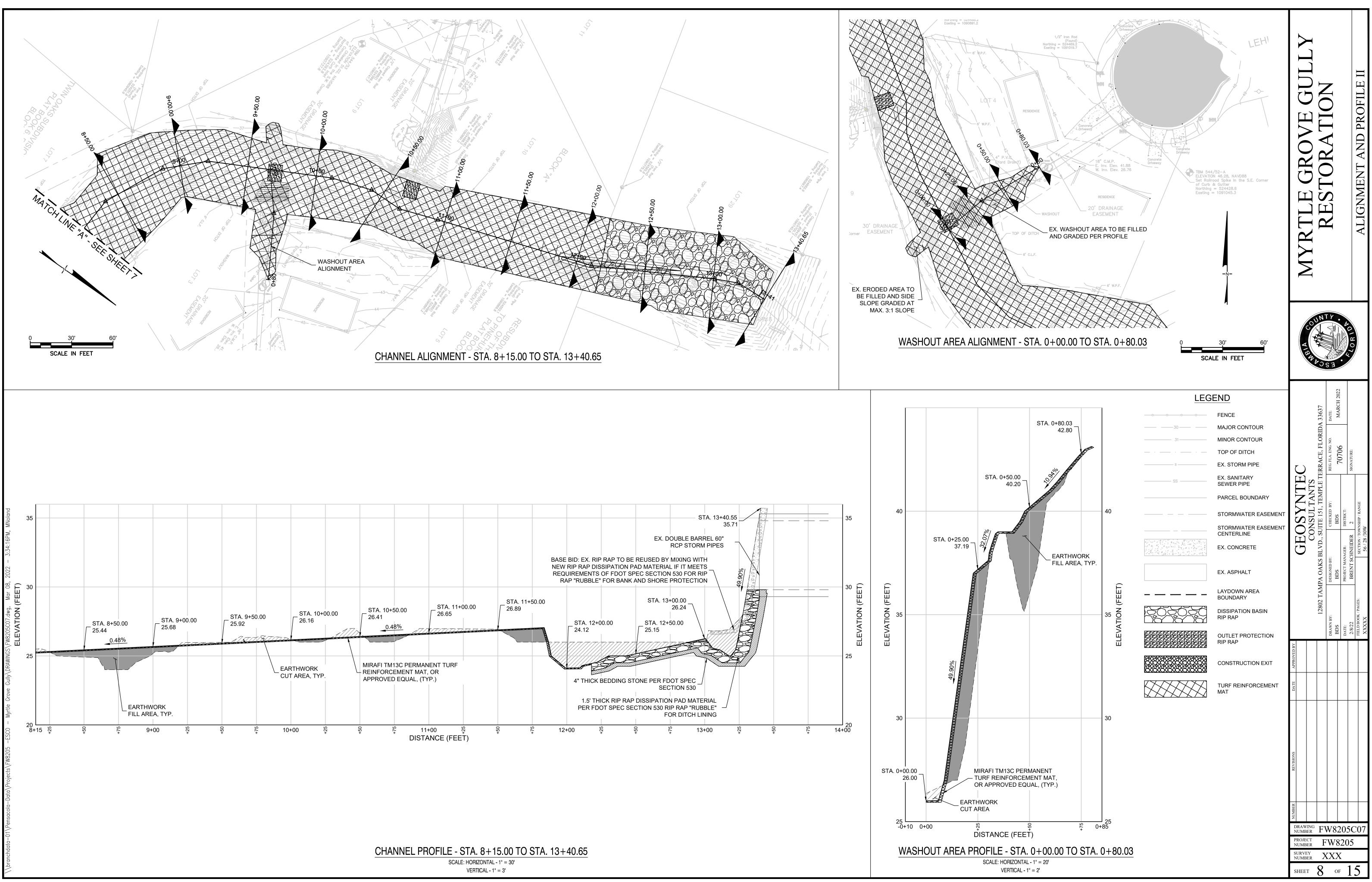
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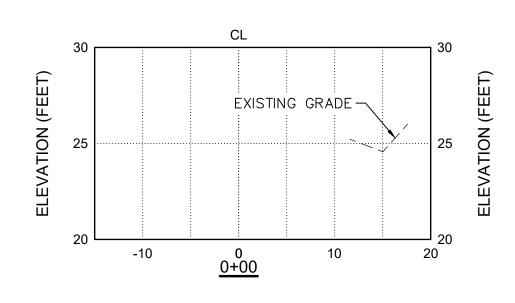


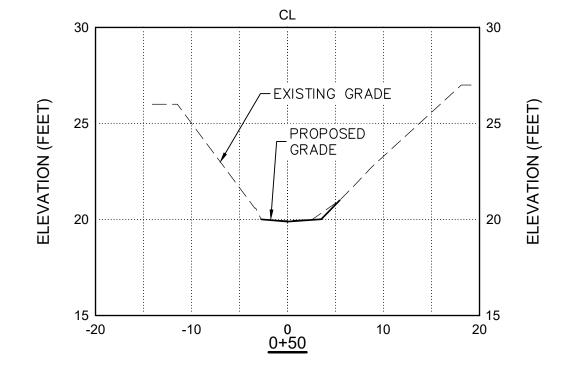
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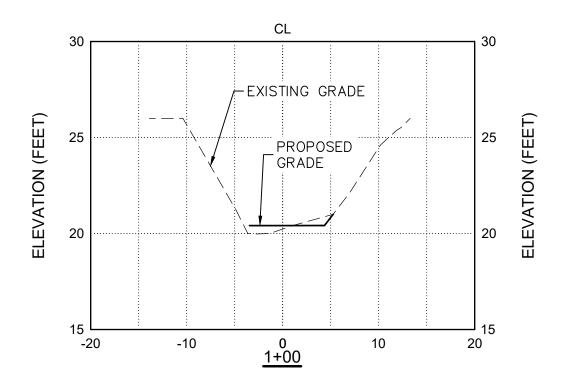


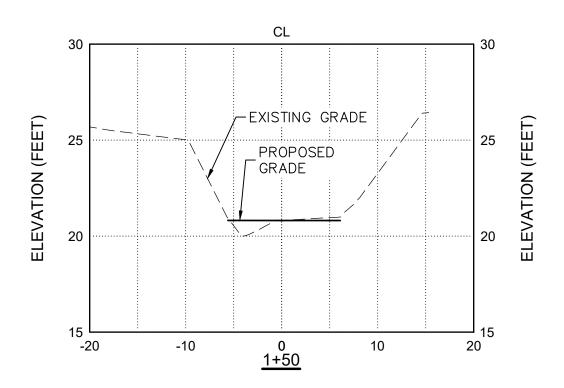
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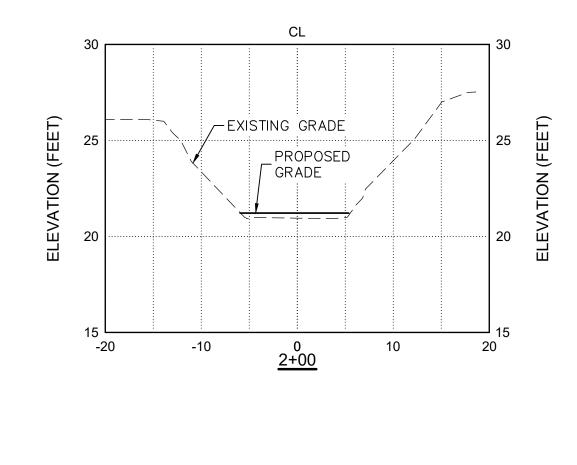


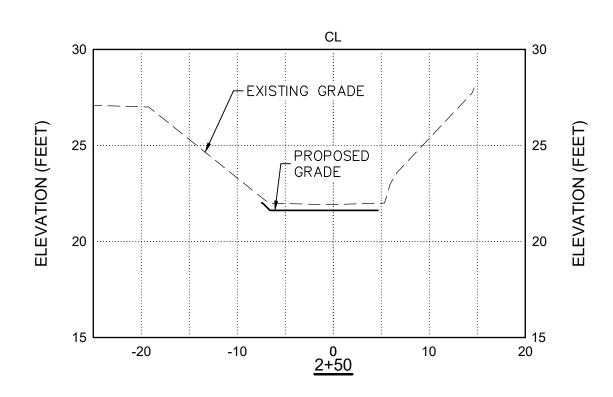


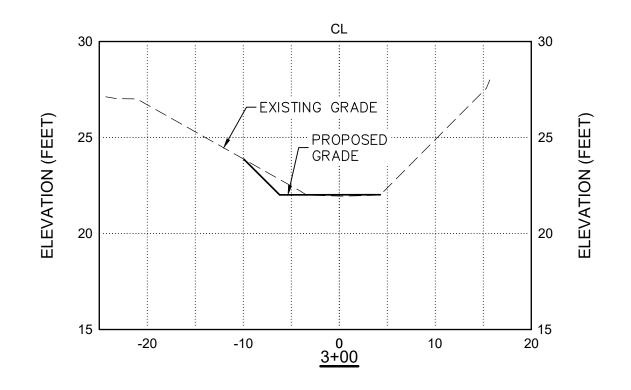


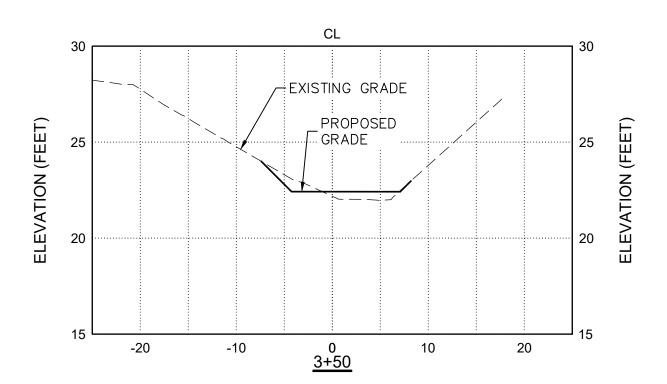


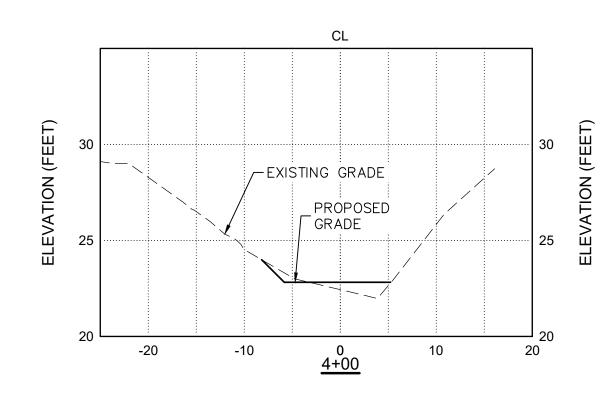


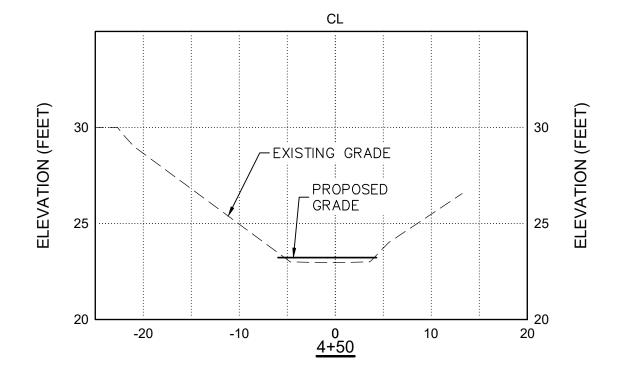


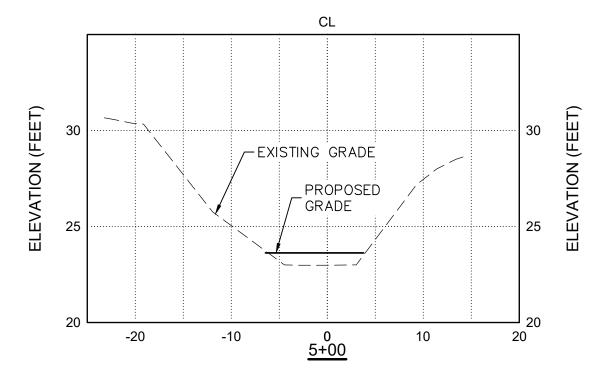


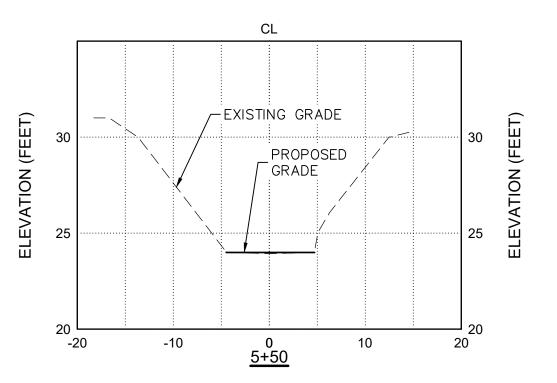




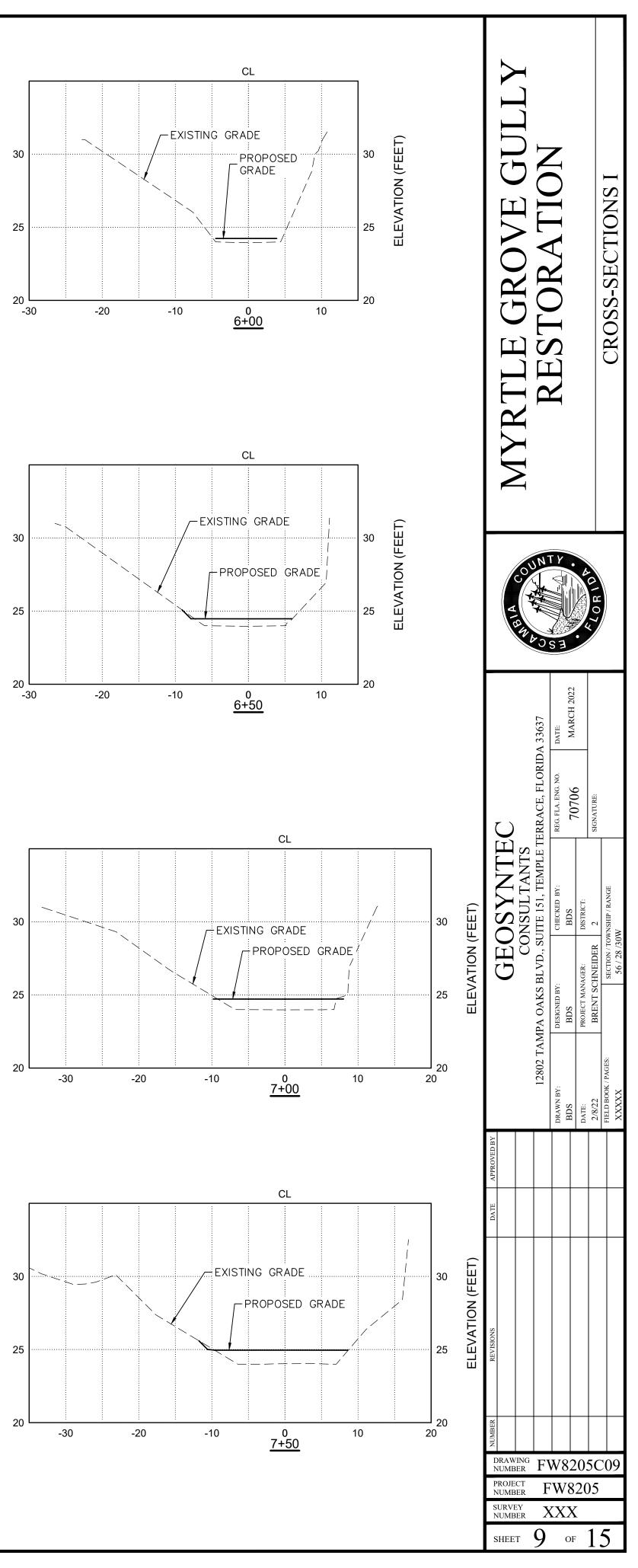


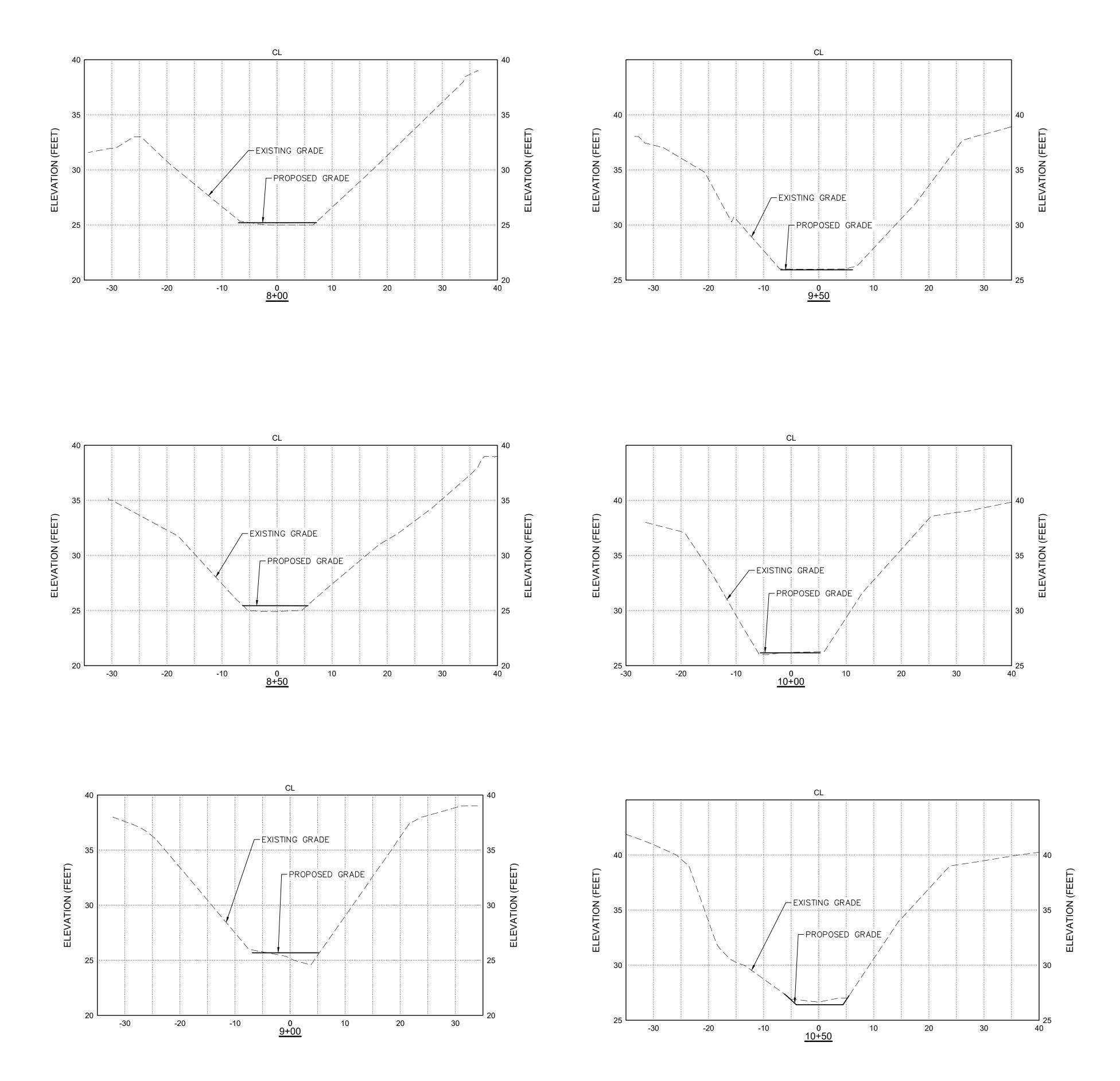


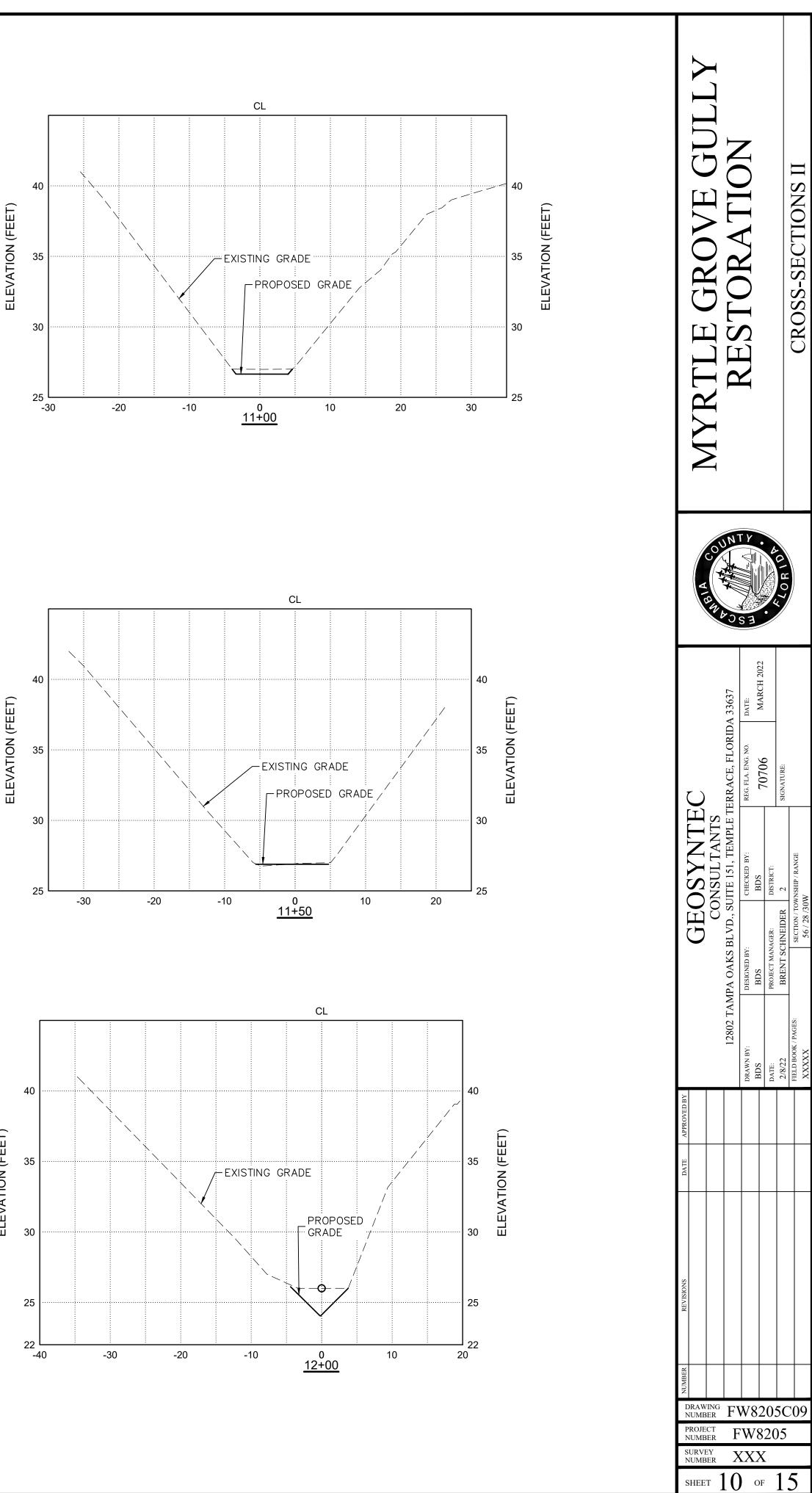


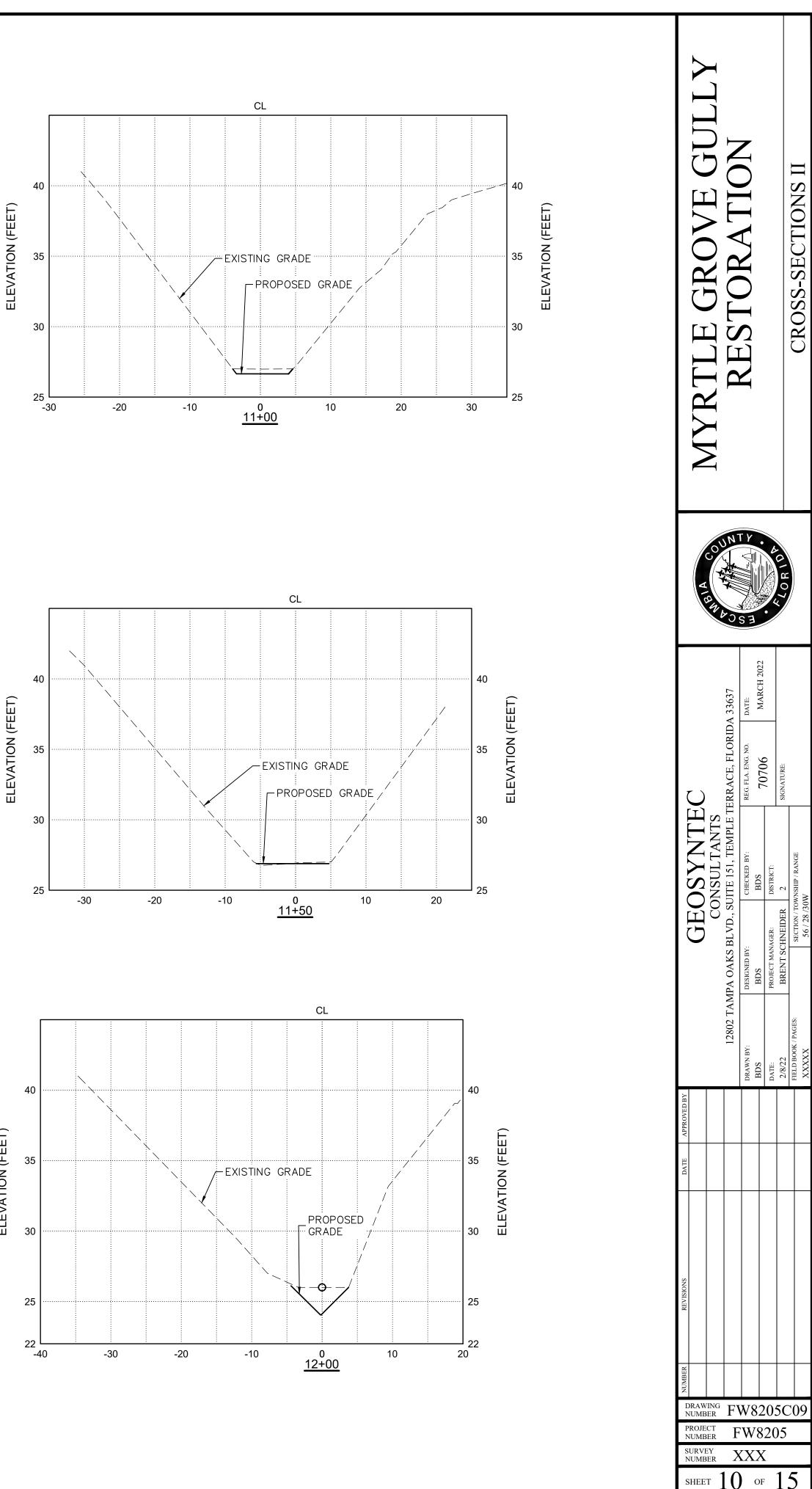


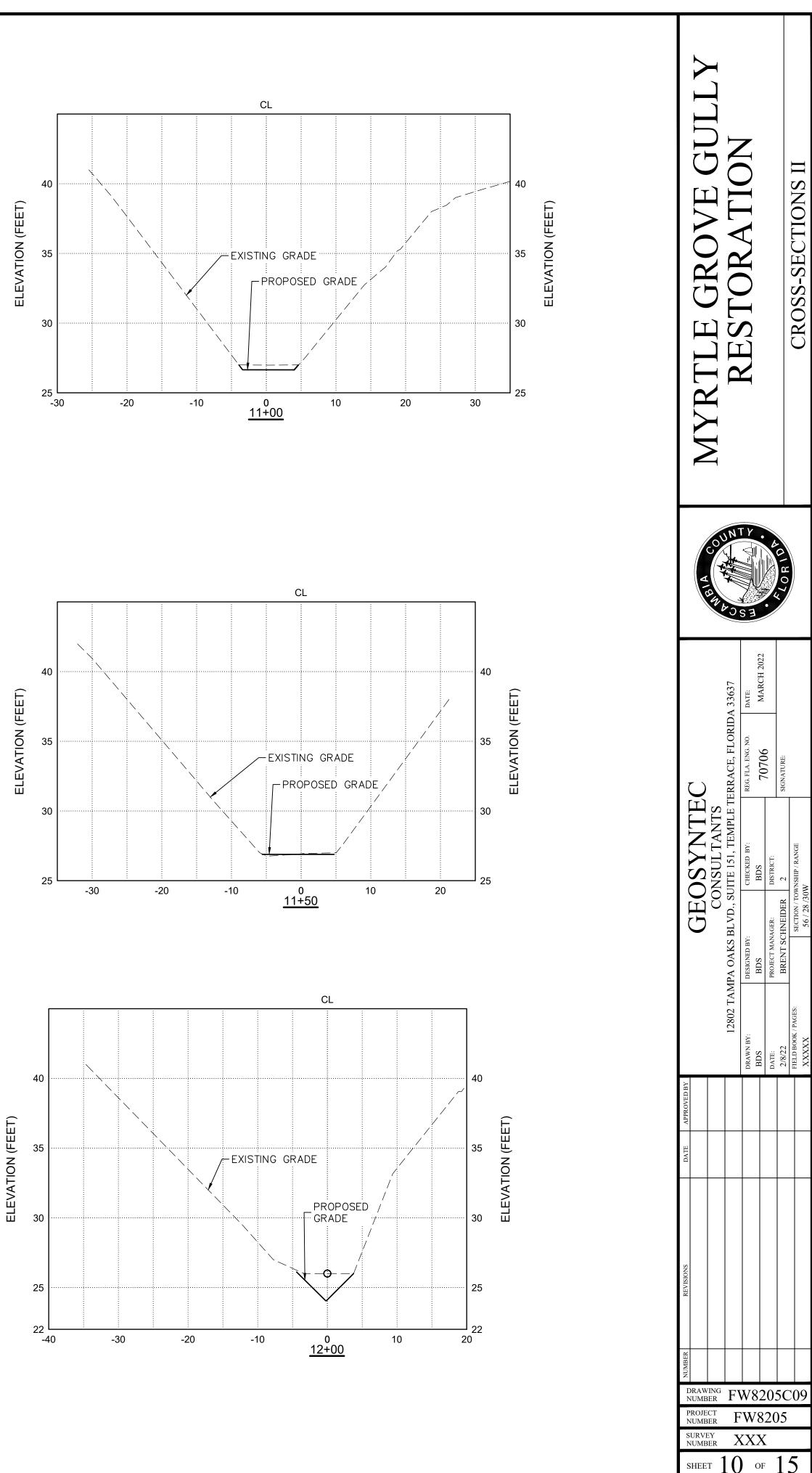






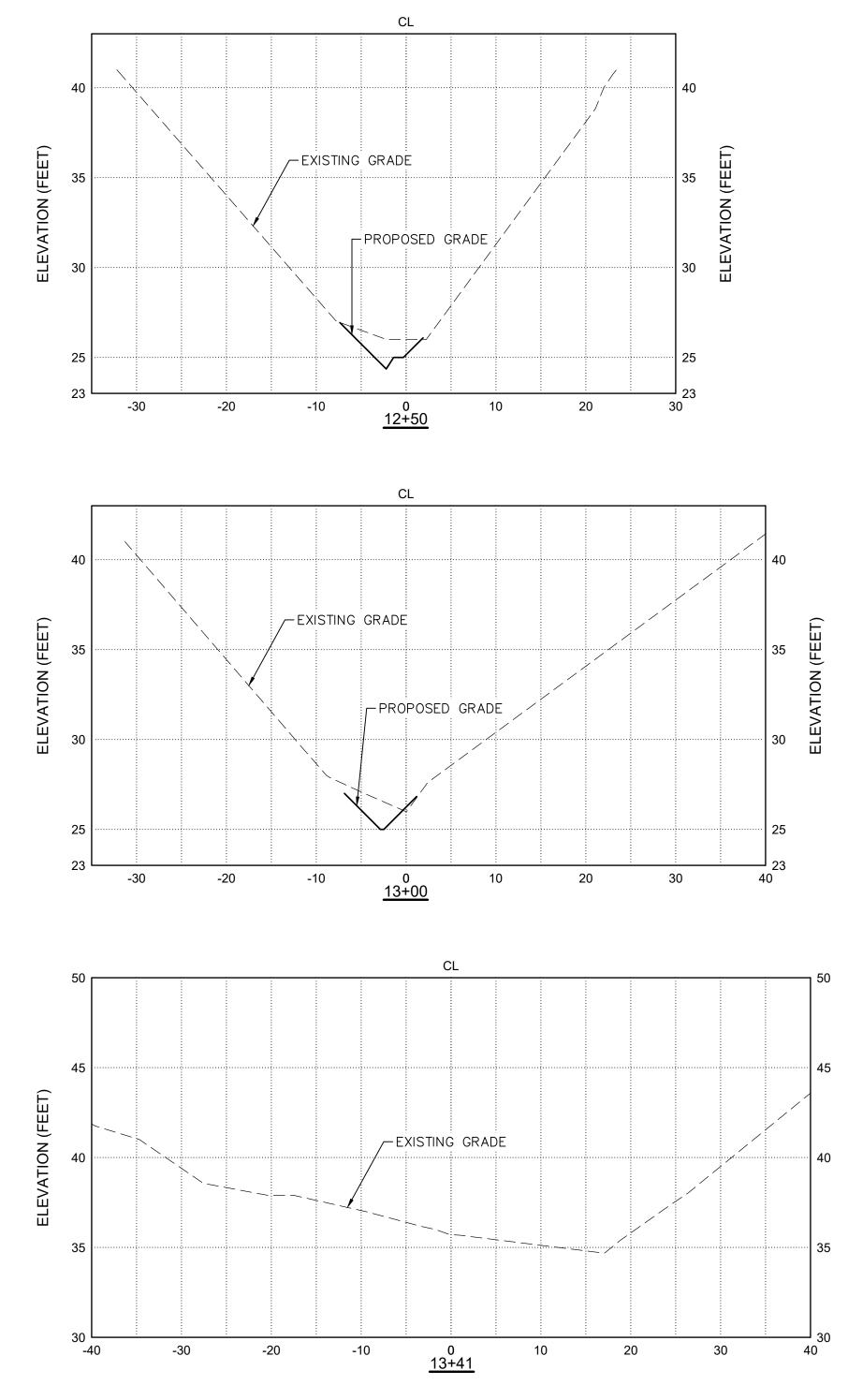






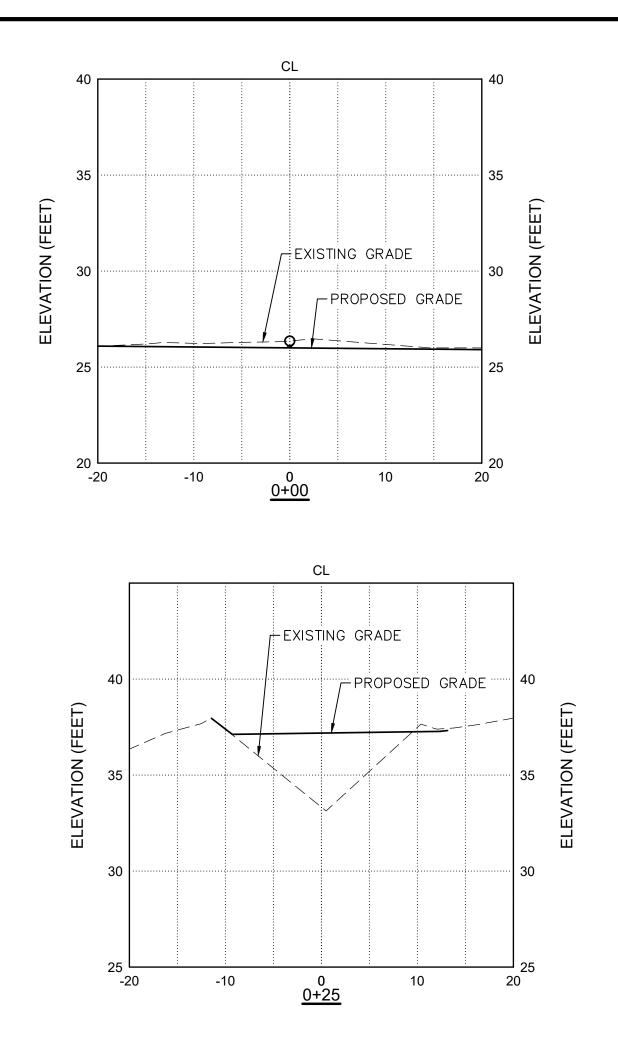
MAIN CHANNEL CROSS-SECTIONS

SCALE: HORIZONTAL - 1" = 10' VERTICAL - 1" = 5'

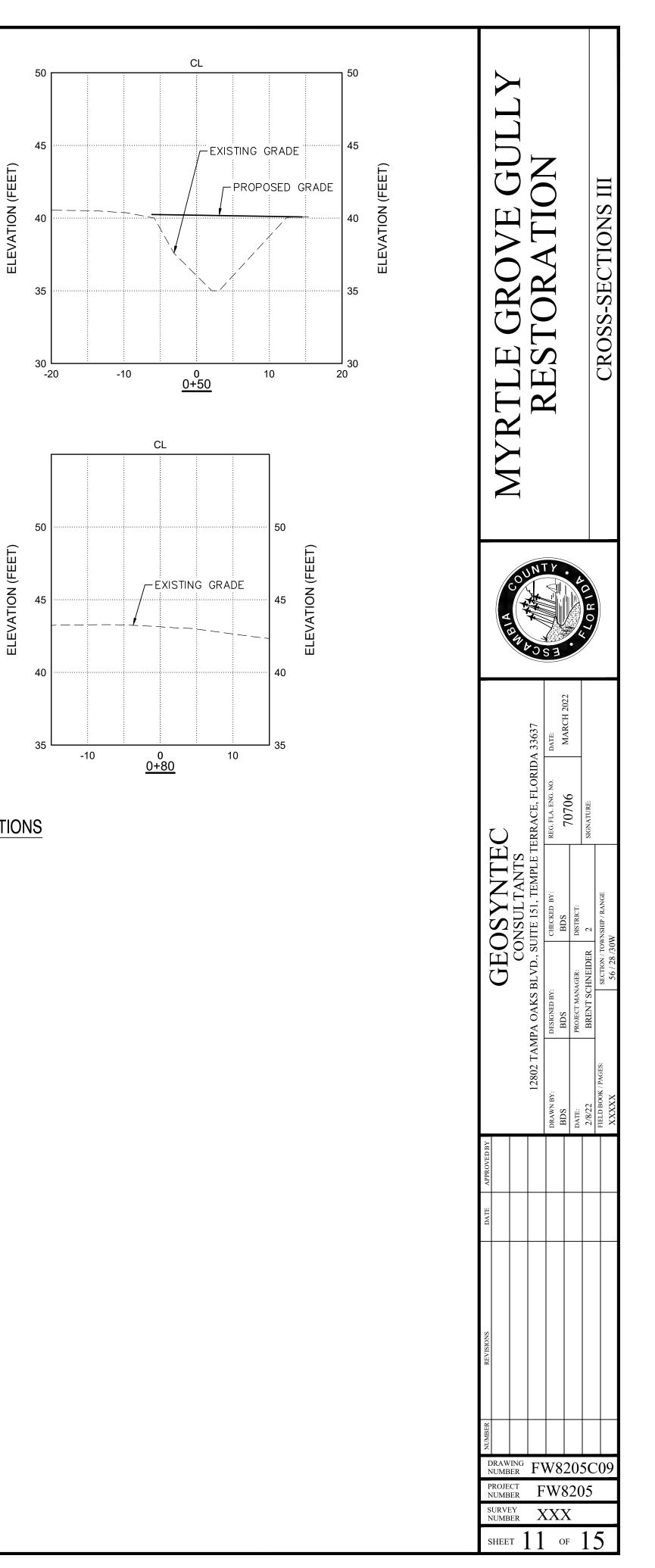


MAIN CHANNEL CROSS-SECTIONS

SCALE: HORIZONTAL - 1" = 10' VERTICAL - 1" = 5'



WASHOUT AREA CROSS-SECTIONS SCALE: HORIZONTAL - 1" = 10' VERTICAL - 1" = 5'



#### STORMWATER POLLUTION PREVENTION PLAN GENERAL NOTES:

- EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- 2. WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, SECTIONS 104, 570, 575 AND 980 TO 986.
- SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATION COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.
- 4. SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR ON OR OFF SITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
- AREAS USED FOR THE CONTRACTOR'S STAGING, INCLUDING BUT NOT LIMITED TO, TEMPORARY STORAGE OF STOCKPILED MATERIALS OR DEBRIS, SHALL BE ENTIRELY PROTECTED BY A SILT FENCE ALONG THE LOW ELEVATION SIDE TO CONTROL SEDIMENT RUNOFF.

#### PROPOSED CONSTRUCTION

THIS PROJECT SHALL CONSIST OF THE CLEARING OF ACCUMULATED DEBRIS FROM THE DRAINAGE CHANNEL, CLEARING AND GRUBBING OF THE CHANNEL AND BANKS, AND THE PERMANENT STABILIZATION OF THE CHANNEL AND BANKS. THE CONSTRUCTION SHALL PROCEED IN THE FOLLOWING MANNER:

- 1. INSTALLATION OF ROCK CHECK DAMS AND ANY OTHER NEEDED SEDIMENT AND EROSION CONTROL DEVICES THAT CAN BE PLACED PRIOR TO ANY MAJOR SOIL DISTURBANCES.
- 2. REMOVE EXISTING VEGETATION AND TRASH/DEBRIS FROM THE MAIN DRAINAGE CHANNEL.
- 3. CLEAR AND GRUB EXISTING VEGETATION FROM MAIN DRAINAGE CHANNEL AND BANKS. REMAINING VEGETATION IS TO BE PROPERLY PROTECTED AND TO REMAIN IN ITS NATURAL STATE.
- 4. INITIATE CONSTRUCTION.
- 5. UPON COMPLETION OF CONSTRUCTION ACTIVITIES, FINE GRADE REMAINDER OF SITE, AND PROVIDE PERMANENT STABILIZATION OF ALL DISTURBED AREAS.
- 6. FINALLY, REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES.

#### EROSION AND SEDIMENTATION CONTROL NOTES

- TEMPORARY CONSTRUCTION ENTRANCES SHALL BE 20'X50'.
- 2. SILT FENCE, WHERE NECESSARY, SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH ENDS OF ADJACENT FENCES TIGHTLY ABUTTING ONE ANOTHER PRIOR TO EARTHWORK OPERATIONS.
- 3. THE SILT FENCE BARRIER SHALL BE ENTRENCHED AND BACK FILLED. A TRENCH SHALL BE EXCAVATED THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF 6 INCHES. THE EXCAVATED SOIL SHALL CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE AND SHALL BE BUILT UP TO 4 INCHES AGAINST THE UPHILL SIDE OF THE BARRIER.
- 4. SILT FENCE BARRIERS SHALL BE SECURELY ANCHORED.
- 5. SILT FENCE BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.
- 6. SILT FENCE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- 7. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE, END RUNS AND UNDERCUTTING BENEATH FENCE.
- NECESSARY REPAIRS TO SILT FENCE BARRIERS OR REPLACEMENT OF FENCE SHALL BE ACCOMPLISHED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE BARRIER.
- 10. SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

#### **BEST MANAGEMENT PRACTICES**

- CHANNELS).
- STRUCTURE WITHIN THE MATRIX.
- BEFORE DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- BELOW THE SLOPE.
- AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES.
- STABILIZED PRIOR TO MOVING ON TO THE SUBSEQUENT PHASE.
- RUNOFF EVENTS.
- WASTE FROM THE PORTABLE UNITS.

#### NPDES NOTES

- INSPECTIONS BY A CERTIFIED INSPECTOR.
- REQUIRED FOR COMPLIANCE WITH THE NPDES GENERIC PERMIT.

#### DISTURBED AREA STABILIZATION NOTES

REQUIREMENT FOR REGULATORY COMPLIANCE MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH (DEPENDING ON THE MATERIAL USED), ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE.

MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS.

IF ANY AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS. PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED. REFER TO Ds2-DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING), AND Ds3 - DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION).

#### SPECIFICATIONS MULCHING WITHOUT SEEDING:

THIS STANDARD APPLIES TO GRADED OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

### SITE PREPARATION

- BERMS, TERRACES AND SEDIMENT BARRIERS.
- 3. LOOSEN COMPACTED SOIL TO A MINIMUM DEPTH OF 3 INCHES.

#### MULCHING MATERIALS

- COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.
- CONTROL COSTS.
- TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND RE-USED.

1. SILT FENCE: SILT FENCE ACTS AS A VERTICAL INTERCEPTOR OF SEDIMENT TRANSPORTED BY OVERLAND SHEET FLOW AS SHOWN ON THE CONSTRUCTION DRAWINGS. SILT FENCE PREVENTS SEDIMENT-LADEN RUNOFF FROM ENTERING INTO DOWNSTREAM CREEKS AND SURFACE WATER MANAGEMENT FEATURES BY PONDING RUNOFF AND SLOWLY DISSIPATING FILTERED RUNOFF. SILT FENCE SHALL NOT BE USED TO TREAT CONCENTRATED FLOWS (I.E., IN GULLIES, DITCHES, OR

ROLLED EROSION CONTROL PRODUCTS (RECPS): ROLLED EROSION CONTROL PRODUCTS (RECPS) ARE DEGRADABLE MANUFACTURED MATERIALS USED TO STABILIZE EASILY ERODED AREAS WHILE VEGETATION BECOMES ESTABLISHED. TWO TYPES OF RECPS CAN BE USED IN DRAINAGE CHANNELS: EROSION CONTROL BLANKETS (ECBS) AND TURF REINFORCEMENT MATS (TRMS). TRMS AS BEING COMPOSED OF INTERWOVEN LAYERS OF NONDEGRADABLE GEOSYNTHETIC MATERIALS SUCH AS POLYPROPYLENE, NYLON, AND POLYVINYL CHLORIDE NETTING, STITCHED TOGETHER TO FORM A THREE-DIMENSIONAL MATRIX. TRMS ARE THICK AND POROUS ENOUGH TO ALLOW FOR PLANTING SEED AND FILLING WITH SOIL. IN THIS MANNER, CONDITIONS WILL EXIST TO ALLOW FOR DEVELOPMENT OF A ROOT

3. INLET PROTECTION: INLET PROTECTION PREVENTS SEDIMENT FROM ENTERING STORMWATER CONVEYANCE SYSTEMS

4. TEMPORARY SLOPE DRAINS: TEMPORARY SLOPE DRAINS SHALL BE USED ON CUT OR FILL SLOPES BEFORE PERMANENT STORMWATER DRAINAGE STRUCTURES ARE INSTALLED. THESE FEATURES TEMPORARILY CONVEY CONCENTRATED STORMWATER RUNOFF SAFELY DOWN THE FACE OF A CUT OR FILL SLOPE WITHOUT CAUSING EROSION PROBLEMS ON OR

5. STABILIZATION: TEMPORARY VEGETATION SHALL BE UTILIZED IN AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE WITHIN 7 DAYS OR ARE LIKELY TO BE REDISTURBED IN AREAS INCLUDING BUT NOT LIMITED TO SOIL STORAGE AREAS AND STOCKPILES, CUT AND FILL SLOPES, AND CONVEYANCE FEATURES. PERMANENT VEGETATION (FINAL STABILIZATION MEASURES) SHALL BE IMPLEMENTED ONCE ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED. A UNIFORM, EVENLY DISTRIBUTED PERENNIAL VEGETATIVE COVER WITH A DENSITY OF AT LEAST 70% FOR ALL UNPAVED

6. PHASED CONSTRUCTION: CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A PHASED APPROACHED AS TO LIMIT THE AMOUNT OF DISTURBED AREA AT ANY ONE TIME. CURRENT PHASE ACTIVITIES SHALL BE COMPLETED AND AREAS

7. WASTE DISPOSAL - WASTE COLLECTION AREAS SHALL BE LOCATED AWAY FROM STREETS. GUTTERS. WATERCOURSES. AND STORM DRAINS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE HAULED TO AN APPROVED LANDFILL. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON-SITE OR DISCHARGED TO WATERS OF THE STATE. ALL PERSONNEL WILL RECEIVE INSTRUCTION REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. EMPLOYEE WASTE AND OTHER LOOSE MATERIALS WILL BE COLLECTED SO AS PREVENT THE RELEASE OF "FLOATABLES" DURING

8. SANITARY WASTE - ALL WORKERS, THROUGHOUT THE LIFE OF THE PROJECT WILL BE PROVIDED PORTABLE SANITARY UNITS, FOR USE. A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR WILL REGULARLY COLLECT ALL SANITARY

1. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR CONTROL OF ALL EROSION AND SEDIMENTATION.

2. ALL DISTURBED AREAS WHICH ARE NOT PAVED SHALL BE SODDED WITH ARGENTINE BAHIA. SODDING SHALL BE WATERED, FERTILIZED UNTIL WELL ESTABLISHED BUT NO LESS THAN FOUR WEEKS FROM DATE OF PLACEMENT.

3. THE CONTRACTOR SHALL SUBMIT THE NPDES NOI TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR USE OF THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL ACT AS THE "OPERATOR" FOR THE PERMIT AND ABIDE BY ALL REQUIREMENTS THEREOF, INCLUDING DEVELOPMENT OF A STORMWATER POLLUTION PREVENTION PLAN FOR THE PROJECT AND PERFORMANCE OF REQUIRED

4. THE CONTRACTOR SHALL INSTALL PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN THROUGHOUT CONSTRUCTION THOSE SEDIMENT AND EROSION CONTROL FEATURES DEPICTED IN THE CONTRACT DOCUMENTS AND AS

. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.

2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS,

SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED: 1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL

2. WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT REMAINING ON SITE CAN BE CHIPPED AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION

3. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL RECEIVE 75% TO 100% SOIL COVER. WHEN SELECTING A MULCH, DESIGN PROFESSIONALS SHOULD CONSIDER THE MULCH'S FUNCTIONAL LONGEVITY, VEGETATION ESTABLISHMENT ENHANCEMENT, AND EROSION CONTROL EFFECTIVENESS. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED:

- 1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE.
- 2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER HYDRAULIC SEEDING.
- 3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 1/4:1 OR STEEPER.
- 4. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE.
- 5. PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS.
- 6. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED. APPLYING MULCH
- 1. STRAW OR HAY MULCH SHALL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING.
- 2. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT, OR BY HAND.
- WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.
- 4. WHEN SEEDING, MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE.
- 5. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION. 20-30 POUNDS OF NITROGEN PER ACRE. IN ADDITION TO THE NORMAL AMOUNT, SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.
- 6. WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.

#### ANCHORING MULCH

ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS:

- 1. HAY AND STRAW MULCH SHALL BE PRESSED INTO THE SOIL WITH A SPECIAL "PACKER DISK" OR DISK HARROW WITH THE DISKS SET STRAIGHT. THE DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT, LEAVING MUCH OF IT IN AN ERECT POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL.
- 2. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED.
- 3. SYNTHETIC TACKIFIERS, BINDERS, OR HYDRAULIC MULCH SPECIFICALLY DESIGNED TO TACK STRAW, SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. ALL TACKIFIERS, BINDERS OR HYDRAULIC MULCH SPECIFICALLY DESIGNED TO TACK STRAW SHOULD BE VERIFIED NONTOXIC THROUGH EPA 2021.0 TESTING.
- 4. RYE OR WHEAT CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE MULCH. THEY SHALL BE APPLIED AT A RATE OF ONE-QUARTER TO ONE-HALF BUSHEL PER ACRE.
- 5. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. THESE MATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

#### LIME AND FERTILIZER APPLICATION

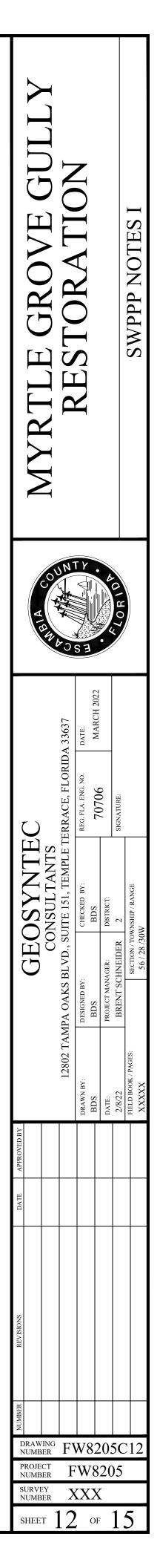
WHEN HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED, INNOCULANT (IF NEEDED), AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLURRY. THE INNOCULANT, IF NEEDED, SHALL BE MIXED WITH THE SEED PRIOR TO BEING PLACED INTO THE HYDRAULIC SEEDER. THE SLURRY MIXTURE WILL BE AGITATED DURING APPLICATION TO KEEP THE INGREDIENTS THOROUGHLY MIXED. THE MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER BEING PLACED IN THE HYDROSEEDER. FINELY GROUND LIMESTONE CAN BE APPLIED IN THE MULCH SLURRY OR IN COMBINATION WITH THE TOP DRESSING. WHEN CONVENTIONAL PLANTING IS TO BE DONE, LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY IN ONE OF THE FOLLOWING WAYS:

- 1. APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED WITH THE SOIL DURING SEED BED REPARATION.
- 2. MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS.
- BROADCAST AFTER STEEP SURFACES ARE SCARIFIED, PITTED OR TRENCHED.

4. A FERTILIZER PELLET SHALL BE PLACED AT ROOT DEPTH IN THE CLOSING HOLE BESIDE EACH PINE TREE SEEDLING.

#### PLANT SELECTION

REFER TO THE FLORIDA STORMWATER, EROSION, AND SEDIMENTATION CONTROL INSPECTOR MANUAL, LATEST EDITION, FOR APPROVED SPECIES. SPECIES NOT LISTED SHALL BE APPROVED BY THE STATE RESOURCE CONSERVATIONIST OF THE NATURAL RESOURCES CONSERVATION SERVICE BEFORE THEY ARE USED. PLANTS SHALL BE SELECTED ON THE BASIS OF SPECIES CHARACTERISTICS, SITE AND SOIL CONDITIONS, PLANNED USE AND MAINTENANCE OF THE AREA; TIME OF YEAR OF PLANTING, METHOD OF PLANTING; AND THE NEEDS AND DESIRES OF THE LAND USER. SOME PERENNIAL SPECIES ARE EASILY ESTABLISHED AND CAN BE PLANTED ALONE. EXAMPLES OF THESE ARE COMMON BERMUDA, TALL FESCUE, AND WEEPING LOVEGRASS. OTHER PERENNIALS, SUCH AS BAHIA GRASS AND SERICEA LESPEDEZA, ARE SLOW TO BECOME ESTABLISHED AND SHOULD BE PLANTED WITH ANOTHER PERENNIAL SPECIES. THE ADDITIONAL SPECIES WILL PROVIDE QUICK COVER AND AMPLE SOIL PROTECTION UNTIL THE TARGET PERENNIAL SPECIES BECOME ESTABLISHED. FOR EXAMPLE, COMMON SEEDING COMBINATIONS ARE 1) WEEPING LOVEGRASS WITH SERICEA LESPEDEZA (SCARIFIED) AND 2) TALL FESCUE WITH SERICEA LESPEDEZA (UNSPECIFIED). PLANT SELECTION MAY ALSO INCLUDE ANNUAL COMPANION CROPS. ANNUAL COMPANION CROPS SHOULD BE USED ONLY WHEN THE PERENNIAL SPECIES ARE NOT PLANTED DURING THEIR OPTIMUM PLANTING PERIOD. A COMMON MIXTURE IS BROWN TOP MILLET WITH COMMON BERMUDA IN MID SUMMER. CARE SHOULD BE TAKEN IN SELECTING COMPANION CROP SPECIES AND SEEDING RATES BECAUSE ANNUAL CROPS WILL COMPETE WITH PERENNIAL SPECIES FOR WATER, NUTRIENTS, AND GROWING SPACE. A HIGH SEEDING RATE OF THE COMPANION CROP MAY PREVENT THE ESTABLISHMENT OF PERENNIAL SPECIES. RYEGRASS SHALL NOT BE USED IN ANY SEEDING MIXTURES CONTAINING PERENNIAL SPECIES DUE TO ITS ABILITY TO OUT-COMPETE DESIRED SPECIES CHOSEN FOR PERMANENT PERENNIAL COVER.



#### PERMANENT SEEDING:

SEEDING SHALL BE INSTALLED IN TWO BATCHES PER PROGANICS AND FLEXTERRA BY PROFILE RECOMMENDATIONS (OR OTHER APPROVED EQUAL). IN GENERAL, THIS REQUIRES ½ OF THE REQUIRED SEED TO BE MIXED WITH THE PROGANICS (OR APPROVED EQUAL) AND APPLIED TO THE GROUND SURFACE IN ONE APPLICATION, AND THEN THE REMAINING ½ OF THE REQUIRED SEED TO BE MIXED WITH THE FLEXIBLE GROWING MEDIA, FLEXTERRA, (OR APPROVED EQUAL) AND APPLIED IN ANOTHER APPLICATION.

SEED MIX SHALL CONTAIN THE FOLLOWING, PERMANENT NATIVE GROUND COVER CERTIFIED, WHEN AVAILABLE (WEIGHT SHOWN IN POUNDS PURE LIVE SEED):

- 4.5 LB/ACRE BEAKED PANICGRASS, GA ECOTYPE (PANICUM ANCEPS, GA ECOTYPE)
- 3.75 LB/ACRE REDTOP PANICGRASS, COASTAL PLAIN NC ECOTYPE (PANICUM RIGIDULUM (P. STIPITATUM), COASTAL PLAIN NC ECOTYPE)
- 3.75 LB/ACRE VIRGINIA WILDRYE, GA ECOTYPE (ELYMUS VIRGINICUS, GA ECOTYPE)
- 3.75 LB/ACRE RIVER OATS, COASTAL PLAIN NC ECOTYPE (CHASMANTHIUM LATIFOLIUM (UNIOLA LATIFOLIA), COASTAL PLAIN NC ECOTYPE)
- 2.5 LB/ACRE SWITCHGRASS, 'CARTHAGE', NC ECOTYPE (PANICUM VIRGATUM, 'CARTHAGE', NC ECOTYPE)
- 1.25 LB/ACRE WINTER BENTGRASS, NC ECOTYPE (AGROSTIS HYEMALIS, NC ECOTYPE)
- 1.25 LB/ACRE PARTRIDGE PEA, FL ECOTYPE (CHAMAECRISTA FASCICULATA (CASSIA F.), FL ECOTYPE)
- 0.75 LB/ACRE SLENDER WOODOATS, NC ECOTYPE (CHASMANTHIUM LAXUM (UNIOLA LAXA), NC ECOTYPE)
- 0.5 LB/ACRE BONESET, FL ECOTYPE (EUPATORIUM PERFOLIATUM, FL ECOTYPE)
- 0.5 LB/ACRE JOE PYE WEED, AL ECOTYPE (EUPATORIUM FISTULOSUM, AL ECOTYPE)
- 0.5 LB/ACRE MISTFLOWER, FL ECOTYPE (EUPATORIUM COELESTINUM (CONOCLINIUM C.), FL ECOTYPE)
- 0.5 LB/ACRE SWAMP (NARROWLEAF) SUNFLOWER, AL ECOTYPE (HELIANTHUS ANGUSTIFOLIUS, AL ECOTYPE)
- 0.5 LB/ACRE LEATHERY RUSH, COASTAL PLAIN NC ECOTYPE (JUNCUS CORIACEUS, COASTAL PLAIN NC ECOTYPE)
- 0.5 LB/ACRE COMMON SNEEZEWEED, FL ECOTYPE (HELENIUM AUTUMNALE, FL ECOTYPE)
- 0.25 LB/ACRE CRIMSONEYED ROSEMALLOW, 'SUTHER'-PIEDMONT NC ECOTYPE (HIBISCUS MOSCHEUTOS, 'SUTHER'-PIEDMONT NC ECOTYPE)
- 0.25 LB/ACRE NEW YORK IRONWEED, 'SUTHER'-PIEDMONT NC ECOTYPE (VERNONIA NOVEBORACENSIS, 'SUTHER'-PIEDMONT NC ECOTYPE)

#### SUPPLEMENTAL PERMANENT GROUNDCOVER SEED MIX TO INCREASE DIVERSITY AND PROVIDE DIFFERING GERMINATION TIMES TO ASSIST WITH SHORT AND LONG-TERM HERBACEOUS COVER (OR APPROVED EQUAL):

- LEMON MINT, MONARDA CITRIODORA 1 POUND PER ACRE
- SIDE OATS GRAMA, BOUTELOUA CURTIPENDULA 1 POUNDS PER ACRE
- BLUE GRAMA, BOUTELOUA GRACILIS 1 POUND PER ACRE
- SAND DROPSEED, SPOROBOLUS CRPTANDRUS 0.1 POUNDS PER ACRE
- GREEN SPRANGLETOP, LEPTOCHLOA DUBIA 0.5 POUNDS PER ACRE
- SAND LOVEGRASS, ERAGROSTIS TRICHODES 0.25 POUNDS PER ACRE.
- EASTERN GRAMA, TRIPSACUM DACTYLOIDES 1 POUND PER ACRE.
- FLORIDA PASPALUM, PASPALUM FLORIDANUM 1 POUND PER ACRE.
- ILLINOIS BUNDLEFLOWER, DESMANTHUS ILLINOENSIS 2 POUNDS PER ACRE
- VIRGINIA WILD RYE, ELYMUS VIRGINICUS 1 POUND PER ACRE.
- CANADA WILD RYE, ELYMUS CANADENSIS 1 POUND PER ACRE.
- BUTTERFLY MILKWEED, ASCLEPIAS TUBEROSA 0.25 POUNDS PER ACRE.
- BLUE FLAX, *LINUM LEWISII* 1 POUND PER ACRE
- COWPEN DAISY, VERBESINA ENCELIODES 1 POUND PER ACRE.
- SPOTTED BEEBALM, MONARDA PUNCTATA 1 POUND PER ACRE.
- SLEEPY DAISY, XANTHISMA TEXANA 1 POUND PER ACRE

## **TOPSOILING NOTES:**

#### CONDITIONS

- GROWTH.
- CONTINUING SUPPLIES OF MOISTURE AND FOOD.

#### CONSTRUCTION SPECIFICATIONS:

#### MATERIALS

EXCEED 500 PPM.

#### TESTING

STRIPPING.

#### STRIPPING

STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. A 4 TO 6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.

### TOPSOIL pH

IF pH VALUE IS LESS THAN 6.0, LIME SHALL BE APPLIED AND INCORPORATED WITH THE TOPSOIL TO ADJUST THE pH TO 6.5 OR HIGHER. TOPSOILS CONTAINING SOLUBLE SALTS GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.

# SITE PREPARATION (WHERE TOPSOIL IS TO BE ADDED)

STABILIZATION STRUCTURES, BERMS, DIKES, LEVEL SPREADERS, WATERWAYS, SEDIMENT BASINS, ETC.

GRADING - GRADES ON THE AREAS TO BE TOPSOILED WHICH HAVE BEEN PREVIOUSLY ESTABLISHED SHALL BE MAINTAINED.

LIMING - SOIL TESTS SHOULD BE USED TO DETERMINE THE pH OF THE SOIL. WHERE THE pH OF THE SUBSOIL IS 5.0 OR LESS OR COMPOSED OF HEAVY CLAYS, AGRICULTURAL LIMESTONE SHALL BE SPREAD AT THE RATE OF 100 POUNDS PER 1,000 SQUARE FEET. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURE.

BONDING - USE ONE OF THE FOLLOWING METHODS TO INSURE BONDING OF TOPSOIL AND SUBSOIL: 1. TILLING. AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO DUMPING AND SPREADING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENED BY DISCING OR SCARIFYING TO A DEPTH OF AT LEAST 3 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SUBSOIL.

2. TRACKING. PASSING A BULLDOZER OVER THE ENTIRE SURFACE AREA OF THE SLOPE TO LEAVE HORIZONTAL DEPRESSIONS.

#### APPLYING TOPSOIL

- ENGINEER OR LANDSCAPE ARCHITECT.

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#### THIS PRACTICE IS RECOMMENDED FOR SITES OF 2H:1V OR FLATTER SLOPES WHERE:

1. THE TEXTURE OF THE EXPOSED SUBSOIL OR PARENT MATERIAL IS NOT SUITABLE TO PRODUCE ADEQUATE VEGETATIVE

2. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS WITH

3. THE SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.

TOPSOIL SHOULD BE FRIABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH. A pH RANGE OF 5.0-7.5 IS ACCEPTABLE. SOLUBLE SALTS SHOULD NOT

FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER THE QUANTITY AND QUALITY OF SURFACE SOIL JUSTIFIES

TOPSOILING - WHEN TOPSOILING, MAINTAIN NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE

1. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE

2. A UNIFORM APPLICATION OF 6 INCHES (UNSETTLED) IS RECOMMENDED, BUT MAY BE ADJUSTED AT THE DISCRETION OF THE

CUBIC YARDS OF TOPSOIL REQUIRED FOR APPLICATION TO VARIOUS DEPTHS

TH (IN.)	PER 1,000 SQUARE FEET	PER ACRE
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806

#### TEMPORARY SEEDING SCHEDULE AND NOTES:

#### DEFINITION

THE ESTABLISHMENT OF TEMPORARY VEGETATION COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS.

#### CONDITIONS

TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE AS COMPANION CROPS UNTIL THE PERMANENT VEGETATION IS ESTABLISHED. NOTE: SOME SPECIES OF TEMPORARY VEGETATION ARE NOT APPROPRIATE FOR COMPANION CROP PLANTINGS BECAUSE OF THEIR POTENTIAL TO OUT-COMPETE THE DESIRED SPECIES (E.G. ANNUAL RYEGRASS). CONTACT NATURAL RESOURCE CONSERVATION SERVICE OR THE LOCAL SOIL WATER CONSERVATION DISTRICT FOR MORE INFORMATION.

#### SPECIFICATIONS:

**GRADING AND SHAPING** 

EXCESSIVE WATER RUNOFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS. NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

#### SEEDBED PREPARATION

WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED, OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LEDGE AND GERMINATE.

#### SEEDING RAT

BROADCAST														
SPECIES	RATES					PL	ANTI	NG D	ATES	;				COMMENTS
		J	F	М	Α	М	J	J	Α	S	0	N	D	
BARLEY ALONE	144 LBS./AC								••••	•••===		•••••	•••	WINTER HARDY, USE ON
BARLEY IN MIXTURE	24 LBS./AC								••••	•••		•••••	•••	PRODUCTIVE SOILS
LESPEDEZA, ANNUAL ALONE	40 LBS./AC		••••	•	••••									MAY VOLUNTEER FOR SEVERAL
LESPEDEZA, ANNUAL IN MIXTURE	10 LBS./AC		••••		••••									YEARS. USE INOCULANT TYPE EL.
LOVEGRASS, WEEPING ALONE LOVEGRASS, WEEPING IN MIXTURE	4 LBS./AC 2 LBS./AC			•••••			••••							MAY LAST FOR SEVERAL YEARS. MIX WITH SERICEA LESPEDEZA.
MILLET, BROWNTOP ALONE	40 LBS./AC				• • •			••••						QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH
MILLET, BROWNTOP IN MIXTURE	10 LBS./AC				•••			••••						RATES.
MILLET, PEARL ALONE	50 LBS./AC				•••				••••	•				QUICK DENSE COVER. MAY REACH 5 FEET IN HEIGHT. NOT RECOMMENDED FOR MIXTURES.
OATS ALONE	128 LBS./AC									•••			•	USE ON PRODUCTIVE SOILS. NOT AS
OATS IN MIXTURE	32 LBS./AC									•••				WINTER HARDY AS RYE OR BARLEY.
RYE ALONE	168 LBS./AC								•••	••••			•••••	QUICK COVER. DROUGHT
RYE IN MIXTURE	28 LBS./AC									••••			•••••	TOLERANT AND WINTER HARDY.
RYEGRASS, ANNUAL ALONE	40 LBS./AC	•••••	• • • • • •	• • • • • •	• • •				• • • • •	•				DENSE COVER. VERY COMPETITIVE AND NOT TO BE USED IN MIXTURES.
SUDANGRASS ALONE	60 LBS./AC				••••				•••••	•				GOOD ON DROUGHTY SITES. NOT RECOMMENDED FOR MIXTURES.
TRITICALE ALONE	144 LBS./AC	• • • • • •									•••			USE ON LOWER PART OF SOUTHERN COASTAL PLAIN AND IN ATLANTIC
TRITICALE IN MIXTURE	24 LBS./AC	• • • • • •								•••	• • •		<u> </u>	COASTAL FLATWOODS ONLY.
WHEAT ALONE	180 LBS./AC									••••	•			WINTER HARDY.
WHEAT WITH OTHER PERENNIALS	30 LBS./AC									••••			+	

SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.

#### LIME AND FERTILIZER

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE DETERMINED BY SOIL TEST FOR pH. QUICK ACTING LIME SHOULD BE INCORPORATED TO MODIFY pH DURING THE GERMINATION PERIOD. BIO STIMULANTS SHOULD ALSO BE CONSIDERED WHEN THERE IS LESS THAN 3% ORGANIC MATTER IN THE SOIL. GRADED AREAS REQUIRE LIME APPLICATION. SOILS MUST BE TESTED TO DETERMINE REQUIRED AMOUNTS OF FERTILIZER AND AMENDMENTS. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER, OR CHISEL. ON SLOPES TOO STEEP FOR OR INACCESSIBLE TO EQUIPMENT, FERTILIZER SHALL BE HYDRAULICALLY APPLIED, PREFERABLY IN THE FIRST PASS WITH SEED AND SOME HYDRAULIC MULCH, THEN TOPPED WITH THE REMAINING REQUIRED APPLICATION RATE.

#### SEEDING

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RAKED" LIGHTLY TO COVER SEED WITH SOIL IF SEEDED BY HAND. SEE THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN FLORIDA, LATEST EDITION, FOR MORE INFORMATION.

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT

THE USE OF MULCH, PROVIDED THERE IS LITTLE TO NO EROSION POTENTIAL

SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. REFER

HOWEVER, THE USE OF MULCH CAN OFTEN ACCELERATE AND ENHANCE

GERMINATION AND VEGETATION ESTABLISHMENT. MULCH WITHOUT

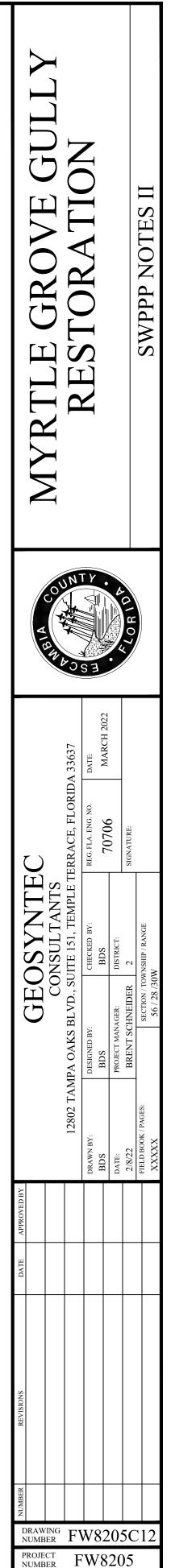
TO Ds1-DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

#### MULCHING

## IRRIGATION

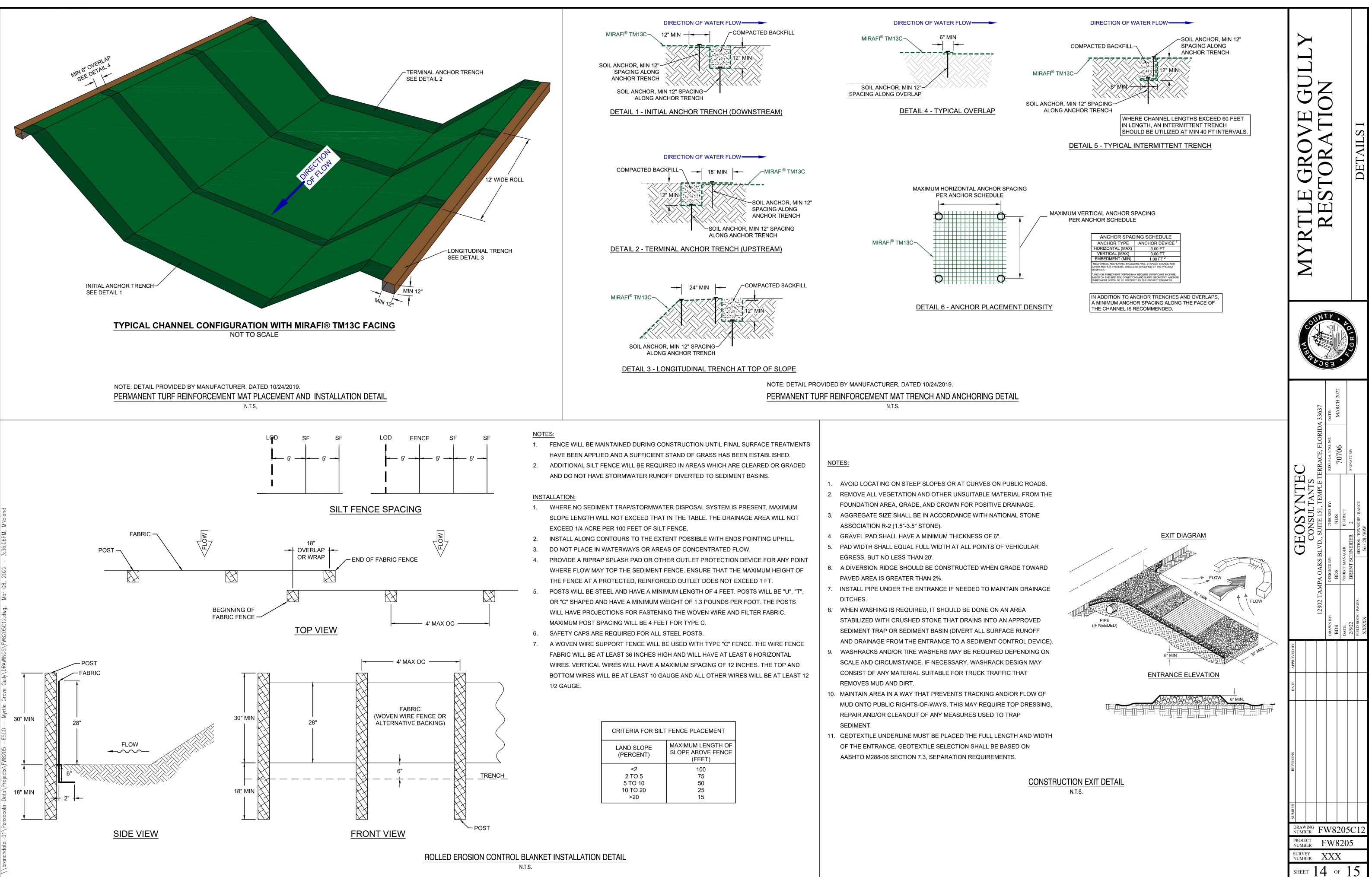
DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

ES FOR	TEMPORA	ARY SEEDING	



SURVEY NUMBER XXX

SHEET **13** OF



CRITERIA FOR SILT	FENCE PLACEMENT
LAND SLOPE (PERCENT)	MAXIMUM LENGTH OF SLOPE ABOVE FENCE (FEET)
<2 2 TO 5 5 TO 10 10 TO 20 >20	100 75 50 25 15

