



CITY OF DAYTONA BEACH

FINANCIAL PROJECT ID 439871-1-54-01

CITY PROJECT No. 2016-037

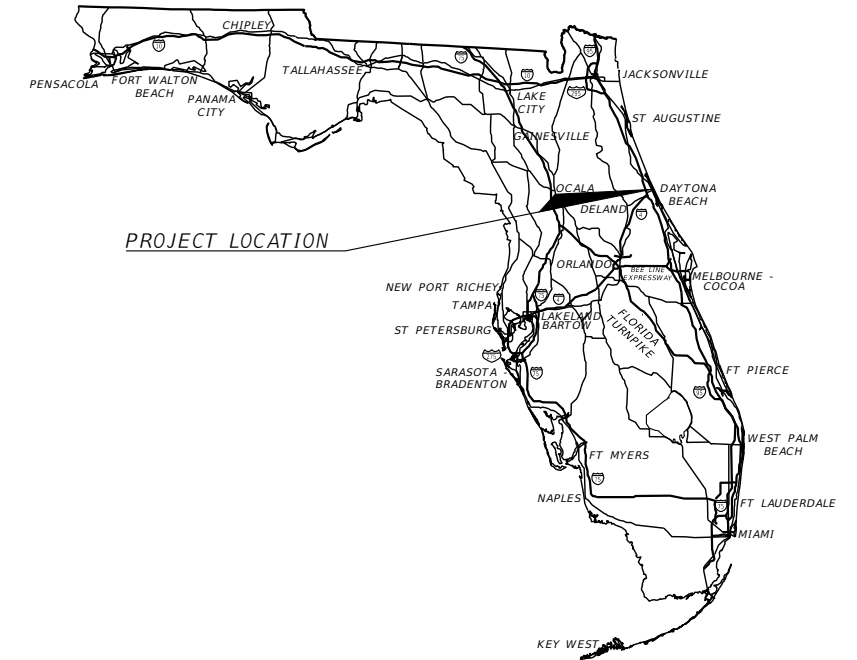
(STATE FUNDS)

VOLUSIA COUNTY

SWEETHEART TRAIL
(SICKLER DR)

INDEX OF PLANS

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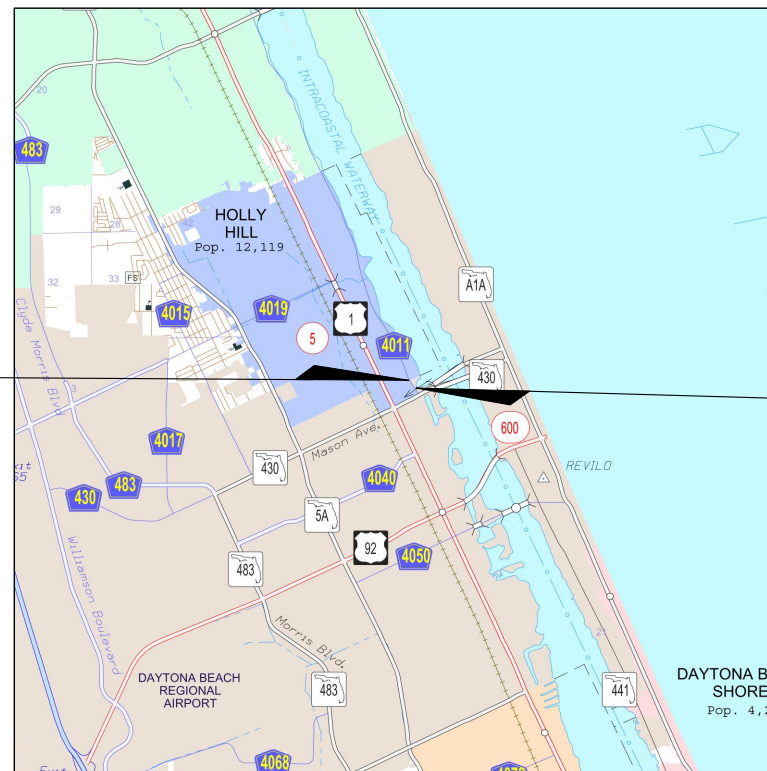


CITY OF DAYTONA BEACH

PUBLIC WORKS DEPARTMENT - TECHNICAL SERVICES DIVISION

DERRICK L. HENRY-MAYOR
RUTH TRAGER, COMMISSIONER - ZONE 1
AARON DELGADO, COMMISSIONER - ZONE 2
KELLY WHITE, COMMISSIONER - ZONE 3
ROBERT A. GILLILAND - ZONE 4
DANNETTE HENRY, COMMISSIONER - ZONE 5
PAULA R. REED, COMMISSIONER - ZONE 6
JAMES V. CHISHOLM - CITY MANAGER
DAVID WALLER, DEPUTY PUBLIC WORKS DIRECTOR
FRANK VANPELT, TECHNICAL SERVICES DIRECTOR
JIM NELSON, CITY ENGINEER
MICHELLE MARTIN, TECHNICAL SERVICES PROJECT MANAGER

Beginning of Project
STA. 9+93.78



Ending of Project
STA. 13+36.09



ROADWAY PLANS
ENGINEER OF RECORD:

MICHAEL STEVEN REPSCH, P.E.
P.E. NO.: 79870
ALTA PLANNING + DESIGN
313 DATURA STREET, SUITE 100
WEST PALM BEACH, FL 33401
VENDOR NO.: 106278
CERTIFICATE OF AUTHORIZATION NO.: 31108



GOVERNING DESIGN STANDARDS:
Florida Department of Transportation, FY2018-19 Standard Plans for Road and Bridge Construction and applicable Standard Plans Interim Revisions (SPIRs). Standard Plans for Road Construction and SPIRs are available at the following website: http://www.fdot.gov/design/standard_plans

GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, July 2018 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T-0000	2019	1

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
<i>I. BASE BID</i>			
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-18	INLET PROTECTION SYSTEM	EA	3
110-1-1	CLEARING AND GRUBBING	AC	0.158
120-1	REGULAR EXCAVATION	CY	157
120-6	EMBANKMENT	CY	7
425-1503	INLETS, DT BOT, TYPE A, J BOT, <10'	EA	1
425-2-91	MANHOLES, J-8, <10'	EA	1
425-51	MANHOLE, ADJUST, UTILITIES	EA	2
425-6	VALVE BOXES, ADJUST	EA	1
430-174-115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15"SD	LF	12
520-2-4	CONCRETE CURB, TYPE D	LF	203
522-1	CONCRETE SIDEWALK, 4" THICK, 2500 PSI	SY	358
522-2	CONCRETE DRIVEWAYS, 6" THICK, 2500 PSI	SY	132
527-2	DETECTABLE WARNINGS	SF	17
570-1-2	PERFORMANCE TURF, SOD	SY	257
700-1-50	SINGLE POST SIGN, RELOCATE	AS	2

PAY ITEM NOTES (I. BASE BID):

PAY ITEM NO. 101-1 MOBILIZATION - INCLUDES ALL COSTS ASSOCIATED WITH ESTABLISHING PROJECT CONTROL IN THE FIELD, INCLUDING STAKING OUT BASELINE OF CONSTRUCTION AND ALL PROPOSED IMPROVEMENTS, AS WELL AS PRE/POST CONSTRUCTION VIDEO AND AS-BUILT SURVEYING.

PAY ITEM NO. 102-1 MAINTENANCE OF TRAFFIC - FOR VEHICULAR AND PEDESTRIAN TRAFFIC. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED TO THE CONTRACTOR SHOULD TIME BE ADDED TO THE CONTRACT SCHEDULE REQUIRING MAINTENANCE OF TRAFFIC FOR A LONGER DURATION.

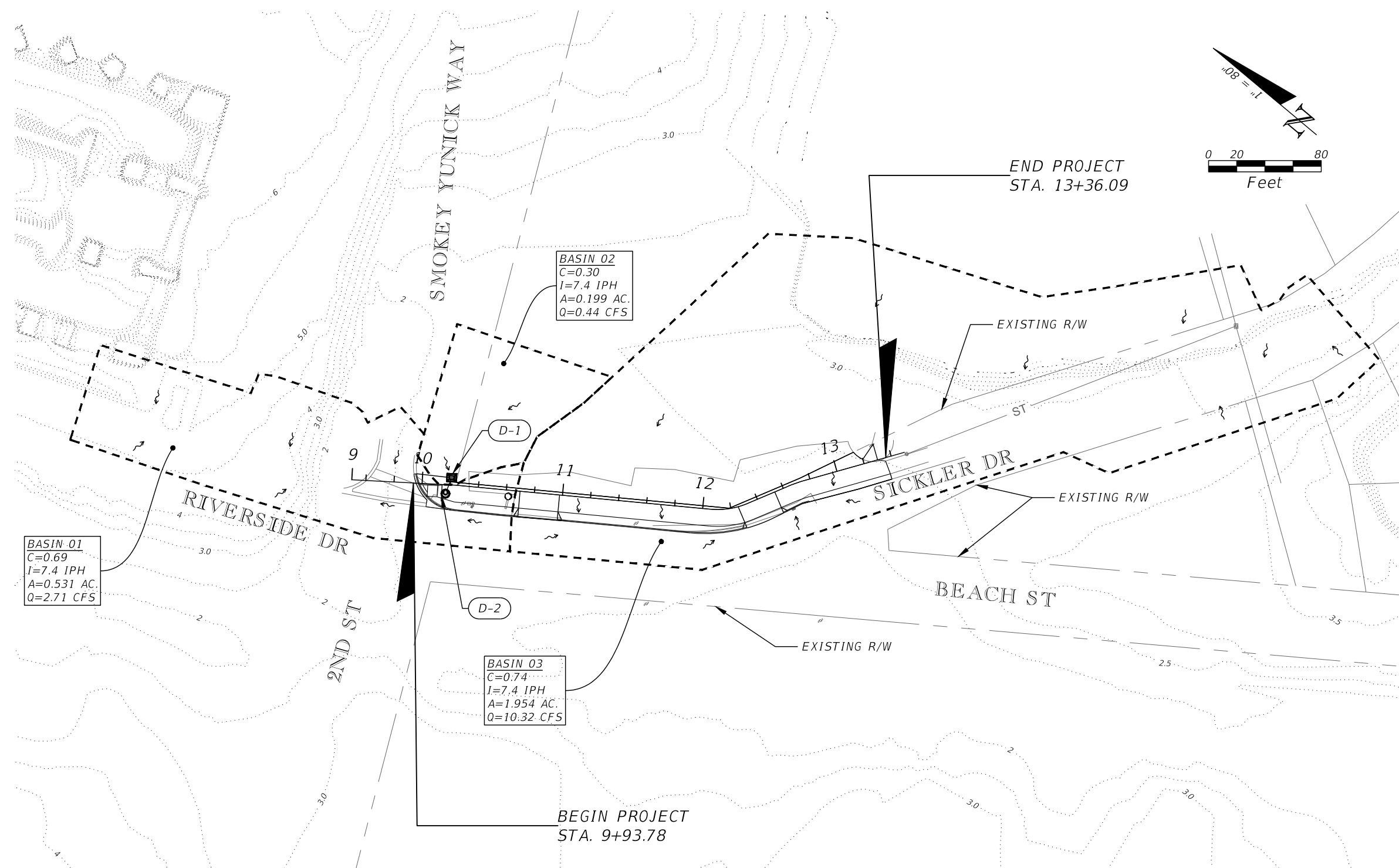
PAY ITEM NO. 110-1-1 CLEARING & GRUBBING - INCLUDES ALL COSTS ASSOCIATED WITH REMOVAL OF EXISTING CONCRETE AND ASPHALT PAVEMENT, CONCRETE SIDEWALK, EXISTING TREES, POLES, AND CONCRETE SLABS.

PAY ITEM NO. 520-2-4 CONCRETE CURB, TYPE D - INCLUDES ALL COSTS ASSOCIATED WITH THE CONSTRUCTION AND COMPACTION OF THE CURB PAD AND ANY NECESSARY ROADWAY REPAIRS AS PER GENERAL NOTE 25.

PAY ITEM NO. 522-1 CONCRETE SIDEWALK, 4" THICK, 2500 PSI - INCLUDES ALL COSTS ASSOCIATED WITH CONSTRUCTING SIDEWALKS AND CURB RAMPS UTILIZING A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI CONCRETE WITH STANDARD BROOM FINISH AS PER STANDARD FDOT SIDEWALK CONSTRUCTION.

PAY ITEM NO. 522-2 CONCRETE DRIVEWAY, 6" THICK, 2500 PSI - INCLUDES ALL COSTS ASSOCIATED WITH CONSTRUCTING DRIVEWAYS UTILIZING A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI CONCRETE WITH STANDARD BROOM FINISH AS PER STANDARD FDOT SIDEWALK CONSTRUCTION.

REVISIONS		 CITY OF DAYTONA BEACH	MICHAEL STEVEN REPSCH, P.E. P.E. LICENSE NUMBER 79870 ALTA PLANNING + DESIGN 313 DATURA STREET, SUITE 100 WEST PALM BEACH, FL 33401 CERTIFICATE OF AUTHORIZATION 31108		SWEETHEART TRAIL (SICKLER DRIVE)	SUMMARY OF PAY ITEMS	SHEET NO.
DATE	DESCRIPTION						2



BASIN 01
 C=0.69
 I=7.4 IPH
 A=0.531 AC.
 Q=2.71 CFS

BASIN 02
 C=0.30
 I=7.4 IPH
 A=0.199 AC.
 Q=0.44 CFS

BASIN 03
 C=0.74
 I=7.4 IPH
 A=1.954 AC.
 Q=10.32 CFS

DRAINAGE MAP LEGEND	
SYMBOL	ITEM
	DIRECTION OF FLOW
	DRAINAGE BASIN LIMIT

NOTE:
 DO NOT USE THE INFORMATION ON THIS SHEET
 FOR CONSTRUCTION PURPOSES.

REVISIONS	
DATE	DESCRIPTION



**CITY OF
 DAYTONA BEACH**

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 P.E. LICENSE NUMBER 79870
alta
 ALTA PLANNING + DESIGN
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 WEST PALM BEACH, FL 33401
 CERTIFICATE OF AUTHORIZATION 31108

SWEETHEART TRAIL
 (SICKLER DRIVE)

DRAINAGE MAP

SHEET
 NO.
 3

GENERAL NOTES:

1. CONTRACTOR SHALL NOTIFY THE CITY OF DAYTONA BEACH PROJECT MANAGER, MICHELLE MARTIN AT 386-671-8632 TWO (2) BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION.
2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATION AS REQUIRED BY CHAPTER 77-153 OF THE FLORIDA STATUTES.
3. BEARING STRUCTURE BASED ON NAD83, FLORIDA STATE PLANE, EAST ZONE. ELEVATIONS REFER TO N.G.V.D. OF 1988, PER FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION MONUMENT 79-78-A36 HAVING A PUBLISHED ELEVATION OF 17.10 FEET.
4. CONTRACTOR SHALL FIELD VERIFY THE EXISTING PAVEMENT ELEVATIONS OF ALL DRIVEWAYS AND SIDEWALKS TO ENSURE THE PROPOSED IMPROVEMENTS MATCH EXISTING ELEMENTS AT CONNECTION.
5. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON RECORDS AND SURVEYS AVAILABLE DURING PLAN DEVELOPMENT, BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES, AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATES PRIOR TO AND DURING ANY CONSTRUCTION ACTIVITIES, AS WELL AS ANY COORDINATION OF UTILITY RELOCATION NECESSARY WITHIN THE PROJECT CONSTRUCTION. CONTRACTOR SHALL VERIFY DEPTH OF ALL EXISTING UTILITY MAINS AND ENSURE THAT THE MINIMUM COVERAGE TO THE TOP OF PIPE WILL BE MAINTAINED.
6. SOD ALL DISTURBED AREAS UNLESS OTHERWISE DIRECTED. SOD SHALL MATCH EXISTING TYPE SOD UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SEED AND MULCH IS NOT ACCEPTABLE IN RIGHT-OF-WAY. SHOULDER SODDING SHALL BE PLACED 1" BELOW EDGE OF PAVEMENT IN ACCORDANCE WITH FDOT INDEX # 105.
7. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED APPURTENANCES (I.E. VALVE BOXES, METER BOXES, PULL BOXES, MANHOLES, ETC.) MEANT TO BE FLUSH WITH FINISHED GRADE.
8. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
9. UNLESS OTHERWISE NOTED, ALL REMOVED MATERIAL (EXCEPT FOR SIGNS) SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND ARE TO BE APPROPRIATELY DISPOSED OF IN AREAS PROVIDED BY THE CONTRACTOR.
10. ALL EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE RIGHT-OF-WAY SHALL REMAIN, UNLESS OTHERWISE DIRECTED.
11. ALL P.R.M.'S SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED IN A PERMANENT MANNER.
12. ANY U.S.C. & G.S. MONUMENTS (I.E. PUBLIC LAND CORNERS) WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED, AND IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE STATE GEODETIC ADVISOR, 3900 COMMONWEALTH BOULEVARD, TALLAHASSEE, FL, (850)245-2606. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO MARKERS AND SHALL REPLACE AT CONTRACTOR'S EXPENSE IF DAMAGED.
13. CONTRACTOR SHALL COOPERATE WITH CITY'S DESIGNATED REPRESENTATIVE(S) AT ALL TIMES WITH RESPECT TO SAMPLING, TESTING, AND INSPECTIONS.
14. SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED AND NOTED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION. MINOR ADJUSTMENTS MAY BE MADE TO ENSURE NO SIGNS ARE OBSCURED.
15. UNLESS OTHERWISE NOTED, ALL EXISTING SIGNS SHALL REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL SIGNS WHICH ARE TO BE REMOVED OR RELOCATED, AS NOTED IN THESE PLANS. SIGNS TO BE RELOCATED SHALL BE STORED AND PROTECTED DURING CONSTRUCTION, UNTIL SUCH TIME THEY ARE RE-INSTALLED AND THE PROJECT IS COMPLETE. ANY SIGNS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE CITY OF DAYTONA BEACH. SIGNS WHICH ARE NOT INTENDED TO BE RE-UTILIZED SHALL BE DELIVERED TO THE CITY OF DAYTONA BEACH PUBLIC WORKS STREETS MAINTENANCE DIVISION 386.671.8660.

16. ALL STATION/OFFSETS SHOWN ARE TO THE BASELINE OF CONSTRUCTION UNLESS OTHERWISE SPECIFIED. CAD FILES WILL BE PROVIDED FOR THE BENEFIT OF THE CONTRACTOR IN STAKING OUT THE PROPOSED IMPROVEMENTS. NO OTHER PROJECT CONTROL INFORMATION OTHER THAN THAT SHOWN IN THESE PLANS WILL BE PROVIDED. PRIOR TO FIRST APPLICATION FOR PAYMENT, THE CONTRACTOR SHALL STAKE THE RIGHT OF WAY AT 100 FEET WHOLE-STATION INTERVALS (WITH STATIONING SHOWN ON THE STAKES), FOR THE CITY'S INSPECTION.
17. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL BE REQUIRED TO DETERMINE WHETHER OR NOT THERE ARE ANY PRIVATE IMPROVEMENTS LOCATED IN THE PUBLIC RIGHT OF WAY THAT ARE IN CONFLICT WITH PROPOSED CONSTRUCTION, SUCH AS LANDSCAPING, IRRIGATION, LIGHTING, FENCES, ETC. WHENEVER SUCH IMPROVEMENTS EXIST, CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ADJACENT PROPERTY OWNER(S) THAT THEIR PRIVATE IMPROVEMENTS ARE ENCRDACHING ON THE PUBLIC RIGHT OF WAY. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR COORDINATING WITH THE PRIVATE PROPERTY OWNERS TO ENSURE THAT THE PRIVATE IMPROVEMENTS ARE RELOCATED ONTO PRIVATE PROPERTY BY THE OWNERS OF THE EXISTING IMPROVEMENTS, SUCH THAT THEY DO NOT DELAY THE PROJECT AND ARE NOT IN CONFLICT WITH THE PROPOSED CONSTRUCTION.
18. WITH EXCEPTION OF MAILBOXES, ALL PERSONAL PROPERTY WITHIN THE RIGHT-OF-WAY THAT IS NOT RELOCATED BY THE PROPERTY OWNER SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS.
19. CONTRACTOR IS TO MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AT ALL TIMES AND IS TO NOTIFY PROPERTY OWNERS FIVE (5) DAYS PRIOR TO STARTING CONSTRUCTION ADJACENT TO THEIR INDIVIDUAL PROPERTIES.
20. ACCESS TO INTERSECTING SIDE STREETS SHALL BE MAINTAINED AT ALL TIMES.
21. CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS, SECTION 104 - PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION. ENVIRONMENTAL CONTROLS SHALL BE USED AT LOCATIONS DESIGNATED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PROVIDED IN THESE PLANS AND/OR APPROVED BY THE ENGINEER.
22. CONTRACTOR SHALL ENSURE THAT PROPOSED CONDITIONS WILL NOT RESULT IN LESS COVER OVER THE EXISTING UTILITIES THAN THE MINIMUM REQUIREMENTS BELOW, UNLESS SPECIFICALLY APPROVED BY THE CITY IN WRITING:

STORM DRAINS	36 INCHES MINIMUM COVER
WATER MAINS	36 INCHES MINIMUM COVER
WATER SERVICES	30 INCHES MINIMUM COVER
RECLAIMED WATER MAINS	36 INCHES MINIMUM COVER
SANITARY SEWER FORCE MAINS	36 INCHES MINIMUM COVER
GRAVITY SEWER MAINS & SERVICES	36 INCHES MINIMUM COVER
PRIMARY OR SECONDARY ELECTRIC	36 INCHES MINIMUM COVER
TELECOMMUNICATIONS	30 INCHES MINIMUM COVER
TRAFFIC SIGNAL CONDUIT	36 INCHES MINIMUM COVER
23. PROPOSED CONCRETE SHARED USE PATH SHALL BE CONSTRUCTED PER MOST STRINGENT REQUIREMENTS OF FDOT STANDARD SPECIFICATION, SECTION 522.
24. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC CONSTRUCTED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION, SECTION 711.
25. IN LOCATIONS WHERE EXISTING ASPHALT IS TO BE SAWCUT OR CURBING IS TO BE REMOVED / REPLACED WITH NEW CURB OR CURB & GUTTER, CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE EXISTING TRAVEL LANES THROUGH THE DURATION OF THE PROJECT, AND SHALL BE REQUIRED TO REPAIR ANY PAVEMENT THAT IS DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE CITY OF DAYTONA BEACH, WHICH COULD ENTAIL MILLING/RESURFACING AND/OR FULL DEPTH RECONSTRUCTION OF THE PAVEMENT SECTION DEPENDING UPON THE LEVEL OF DAMAGE THAT MAY OCCUR. ALL COSTS ASSOCIATED WITH ANY NECESSARY ROADWAY REPAIRS ARE TO BE INCLUDED IN THE COSTS FOR PAY ITEM 520-2-4 CONCRETE CURB, TYPE D.
26. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL HAVE A CONTINUOUS COLOR VIDEO RECORDING WITH AUDIO LOG TAKEN ALONG THE ENTIRE LENGTH OF THE PROPOSED PROJECT TO SERVE AS A RECORD OF PRE-CONSTRUCTION CONDITIONS. TWO (2) COPIES OF THE VIDEOS SHALL BE DELIVERED TO THE CITY'S CONSTRUCTION REPRESENTATIVE FOR APPROVAL. VIDEO RECORDINGS SHALL NOT BE MADE MORE THAN THIRTY (30) DAYS PRIOR TO CONSTRUCTION IN ANY AREA. NO CONSTRUCTION SHALL BEGIN PRIOR TO REVIEW AND APPROVAL OF THE VIDEOS

- COVERING THE CONSTRUCTION AREA BY THE CITY'S CONSTRUCTION REPRESENTATIVE. THE CITY'S CONSTRUCTION REPRESENTATIVE SHALL HAVE THE AUTHORITY TO REJECT ALL OR ANY PORTION OF THE VIDEO. ALL VIDEOS SHALL BECOME THE PROPERTY OF THE CITY. THE CONTRACTOR SHALL NOTIFY THE CITY'S CONSTRUCTION REPRESENTATIVE 48 HOURS IN ADVANCE SO AN ENGINEER'S REPRESENTATIVE MAY BE PRESENT DURING PROJECT TAPING.
27. CONTRACTOR SHALL NOT CREATE A PUBLIC NUISANCE INCLUDING, BUT NOT LIMITED TO, ENCRDACHMENT ON ADJACENT LANDS, FLOODING OF ADJACENT LANDS, OR EXCESSIVE NOISE. SOUND LEVELS SHALL NOT EXCEED 65 DBA 7 A.M. TO 10 P.M., OR 60 DBA FROM 10 P.M. TO 7 A.M. WHEN PERMITTED TO WORK AT NIGHT. THIS SOUND LEVEL SHALL BE MEASURED AT THE EXTERIOR OF THE NEAREST EXTERIOR WALL OF THE NEAREST RESIDENCE. LEVELS AT THE EQUIPMENT SHALL NOT EXCEED 85 DBA AT ANY TIME. SOUND LEVELS IN EXCESS OF THESE VALUES ARE SUFFICIENT CAUSE TO HAVE THE WORK HALTED UNTIL EQUIPMENT CAN BE QUIETED TO THESE LEVELS. WORK STOPPAGE BY THE ENGINEER OR OWNER FOR EXCESSIVE NOISE SHALL NOT RELIEVE THE CONTRACTOR OF THE COMPLETION DATES AND BID AMOUNTS, AND NO ADDITIONAL COMPENSATION OR SCHEDULE EXTENSIONS WILL BE PROVIDED FOR TIME LOST DUE TO WORK STOPPAGE RESULTING FROM THE CREATION OF A PUBLIC NUISANCE.
28. EXTENSIVE TRIMMING OF SHRUBS AND PRUNING OF TREE LIMBS AND ROOTS IS ANTICIPATED TO BE REQUIRED FOR CONSTRUCTION OF THE PROPOSED SHARED USE PATH. THROUGHOUT THE PRUNING PROCESS, CONTRACTOR SHALL BE REQUIRED TO COORDINATE WITH THE CITY OF DAYTONA BEACH AND SHALL BE REQUIRED TO COMPLETE ALL PRUNING TO THE CITY'S SATISFACTION. PRIOR TO COMPLETING ANY PRUNING, CONTRACTOR SHALL EXCAVATE SOILS AROUND ROOT SYSTEMS SUCH THAT ROOTS ARE EXPOSED AND CAN BE VISIBLY INSPECTED BY THE CITY. LIMBS OF ALL EXISTING TREES OR SHRUBS WHICH OVERHANG THE PROPOSED SHARED USE PATH SHALL BE PRUNED TO PROVIDE 10 FEET OF VERTICAL CLEARANCE. ANY TREES, SHRUBS, OR BRUSH ADJACENT TO THE PROPOSED SHARED USE PATH SHALL BE TRIMMED TO PROVIDE A MINIMUM OF 4 FOOT HORIZONTAL CLEARANCE, AS MEASURED FROM THE EDGE OF THE SHARED USE PATH, UNLESS THIS DISTANCE EXCEEDS AVAILABLE RIGHT-OF-WAY LIMITS, IN WHICH CASE TRIMMING SHALL BE TERMINATED AT THE RIGHT-OF-WAY.
29. WHEN NOTED FOR REMOVAL IN THESE PLANS, EXISTING TREES SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR, INCLUDING LIMBS, TRUNKS, AND THEIR ENTIRE ROOT SYSTEM(S). CONTRACTOR SHALL USE CAUTION WHEN REMOVING EXISTING TREES IN ORDER TO AVOID DAMAGE TO OTHER ELEMENTS THAT MAY BE IN CLOSE PROXIMITY, SUCH AS FENCES OR OTHER PRIVATE PROPERTY, EXISTING UTILITIES, OTHER TREES, ETC. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE CAUSED, AND NO ADDITIONAL COMPENSATION SHALL BE PROVIDED TO RESTORE ITEMS THAT ARE DAMAGED DURING CONSTRUCTION. IN LOCATIONS WHERE SUBSTANTIAL ROOT SYSTEMS ARE ENCOUNTERED IN CLOSE PROXIMITY TO EXISTING UTILITIES, CONTRACTOR SHALL CONTACT CITY OF DAYTONA BEACH PUBLIC UTILITIES DIRECTOR TO DETERMINE WHETHER OR NOT PORTIONS OF EXISTING ROOT SYSTEMS WILL BE PERMITTED TO REMAIN IN THE GROUND IN ORDER TO AVOID DISRUPTION OF EXISTING UTILITIES.
30. AS-BUILT DRAWINGS ARE TO BE PROVIDED MEETING ALL THE REQUIREMENTS OUTLINED IN CITY STANDARD DETAIL M-8.

REVISIONS	
DATE	DESCRIPTION



**CITY OF
DAYTONA BEACH**

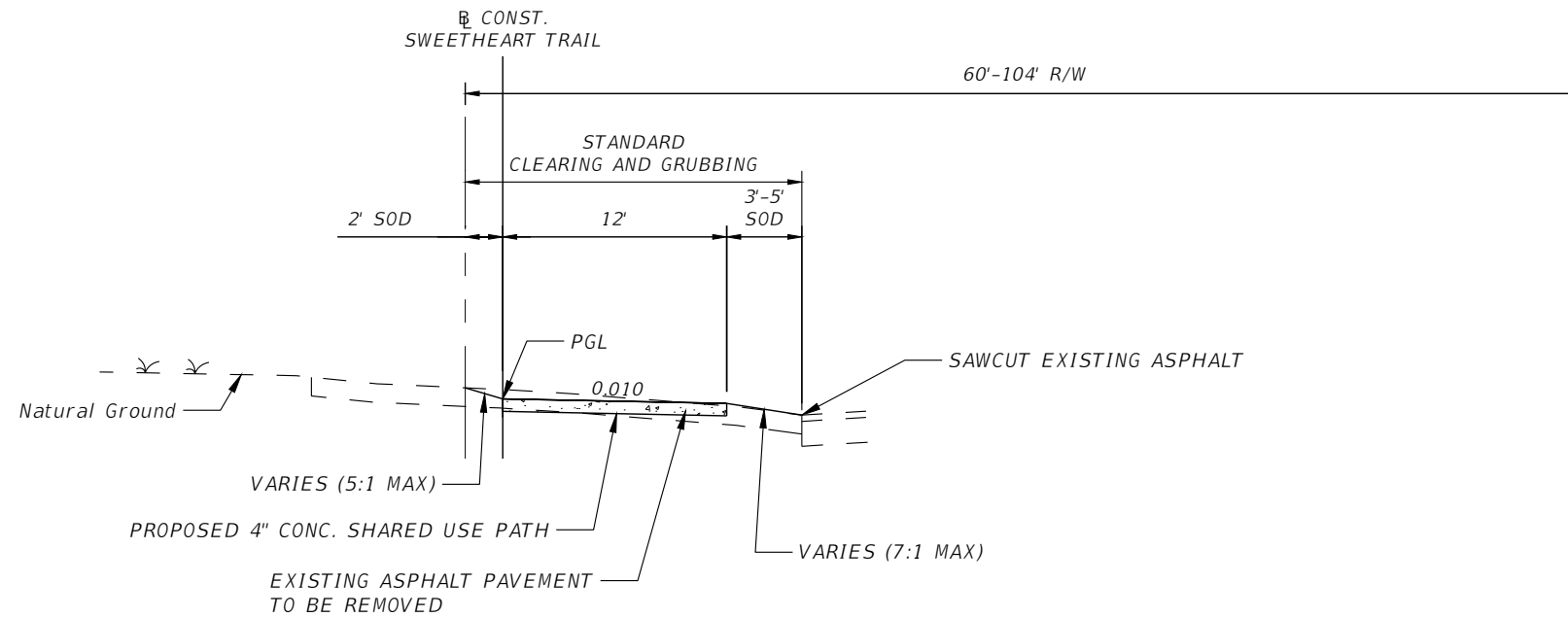
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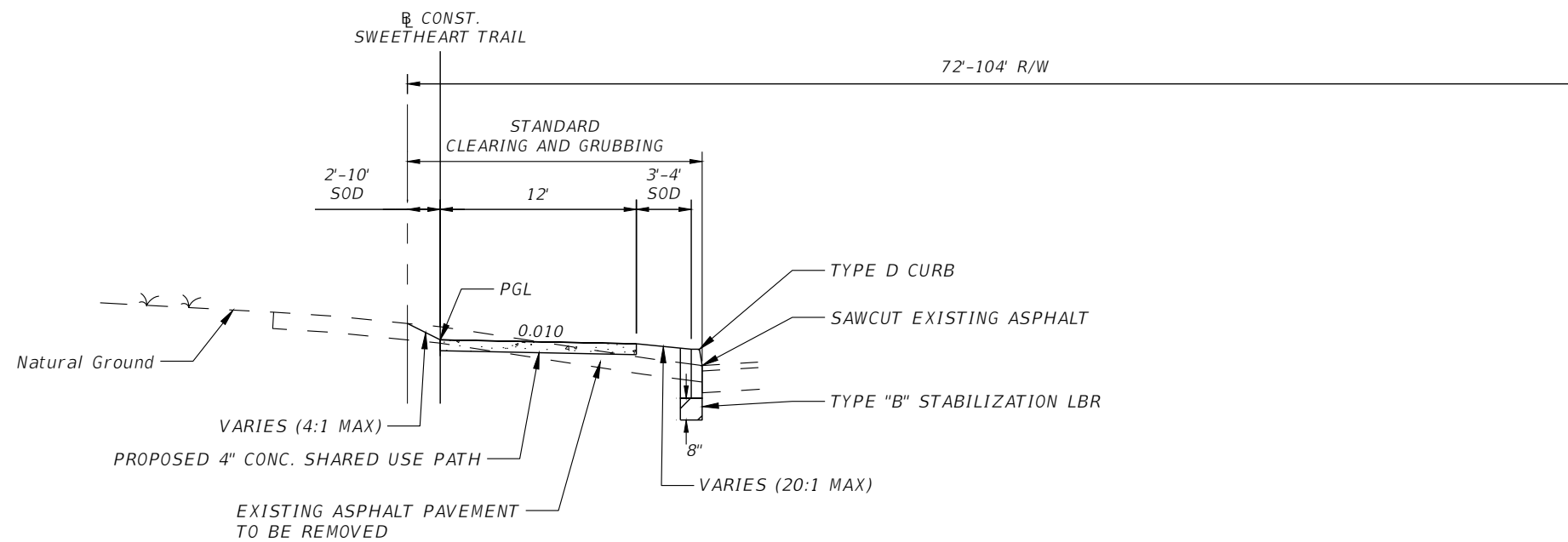
SWEETHEART TRAIL
(SICKLER DRIVE)

GENERAL NOTES

SHEET NO.
4



TYPICAL SECTION NO. 2
 SICKLER DR
 STA. 12+75.00 TO STA. 13+36.09
 NTS



TYPICAL SECTION NO. 1
 SICKLER DR
 STA. 10+11.04 TO STA. 12+75.00
 NTS

REVISIONS	
DATE	DESCRIPTION



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SWEETHEART TRAIL
 (SICKLER DRIVE)

TYPICAL SECTIONS

SHEET
 NO.
 5

BEGIN PROJECT
BEGIN CONSTRUCTION
STA. 9+93.78

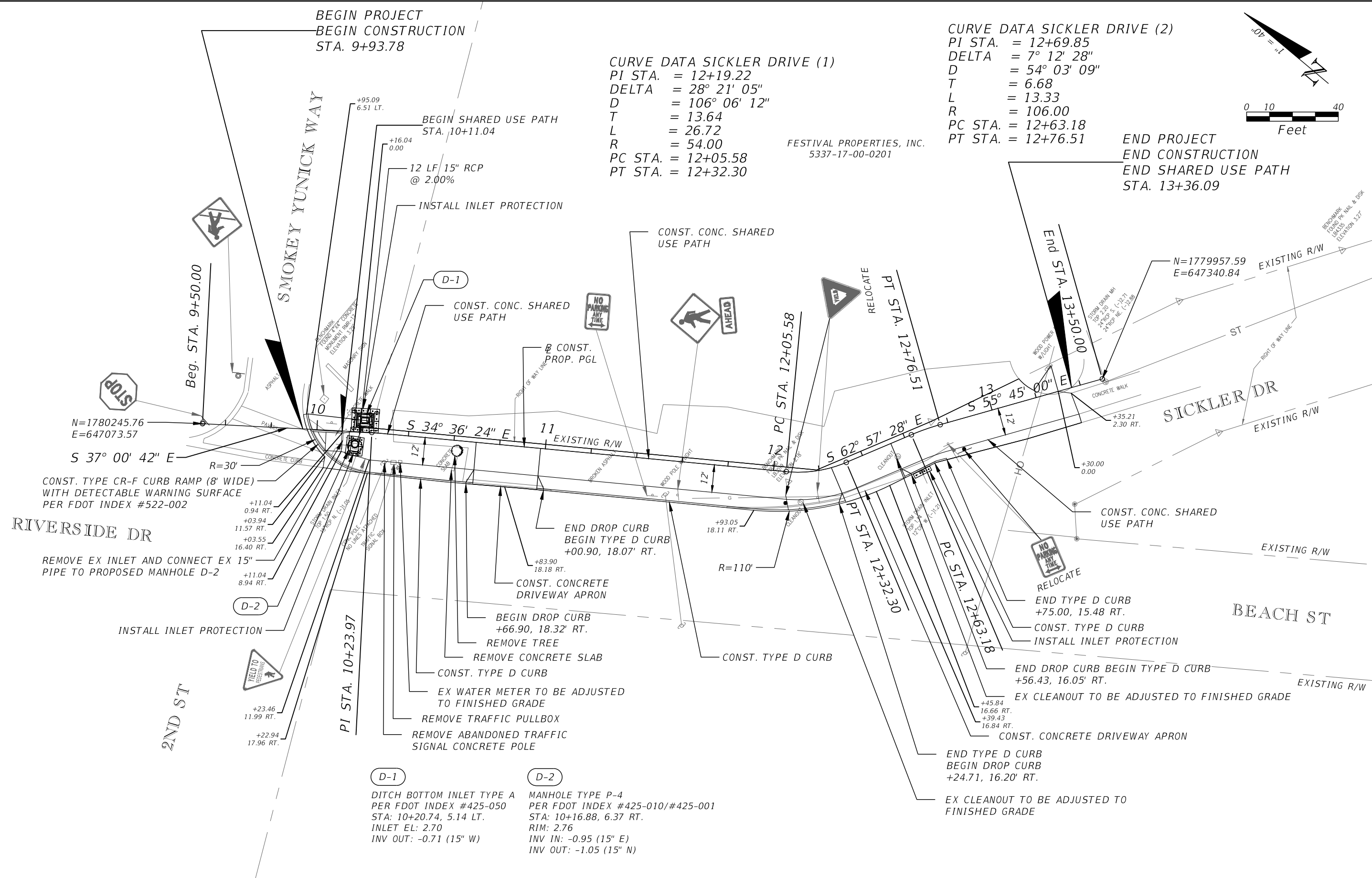
CURVE DATA SICKLER DRIVE (1)
PI STA. = 12+19.22
DELTA = 28° 21' 05"
D = 106° 06' 12"
T = 13.64
L = 26.72
R = 54.00
PC STA. = 12+05.58
PT STA. = 12+32.30

CURVE DATA SICKLER DRIVE (2)
PI STA. = 12+69.85
DELTA = 7° 12' 28"
D = 54° 03' 09"
T = 6.68
L = 13.33
R = 106.00
PC STA. = 12+63.18
PT STA. = 12+76.51

END PROJECT
END CONSTRUCTION
END SHARED USE PATH
STA. 13+36.09



FESTIVAL PROPERTIES, INC.
5337-17-00-0201



REVISIONS	
DATE	DESCRIPTION



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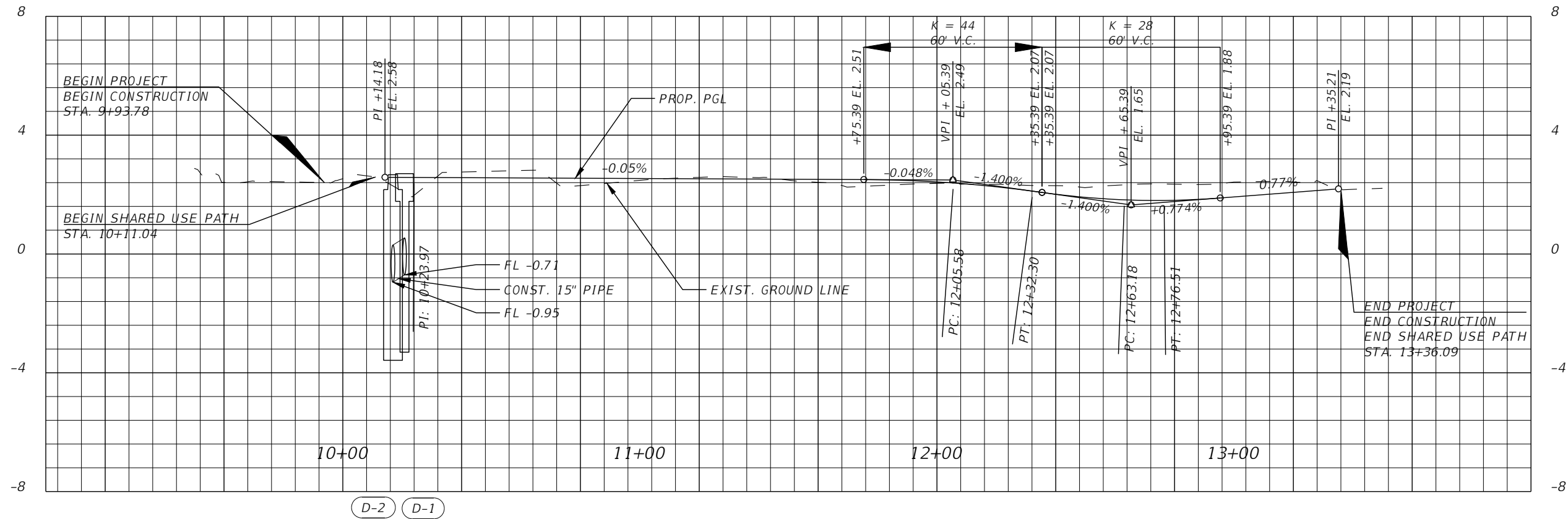
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**SWEETHEART TRAIL
(SICKLER DRIVE)**

ROADWAY PLAN SHEET

SHEET NO.
6



SCALE:
 1" = 40' HORIZ.
 1" = 4' VERT.

REVISIONS	
DATE	DESCRIPTION



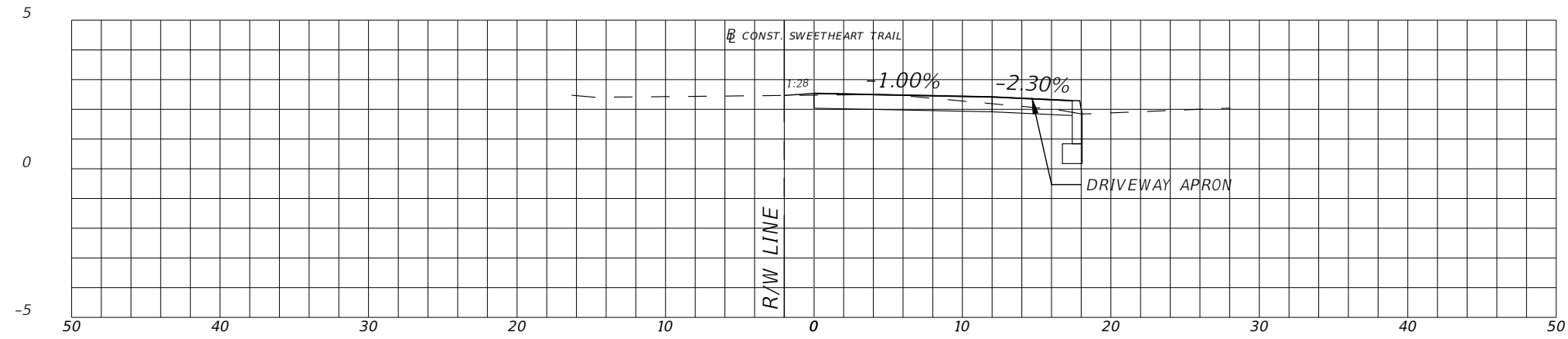
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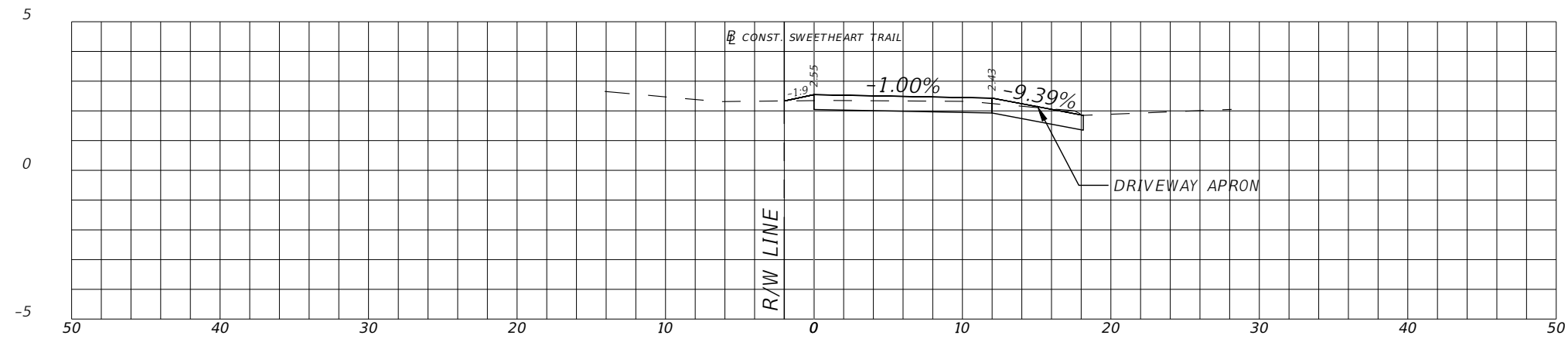
SWEETHEART TRAIL
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ROADWAY PROFILE SHEET

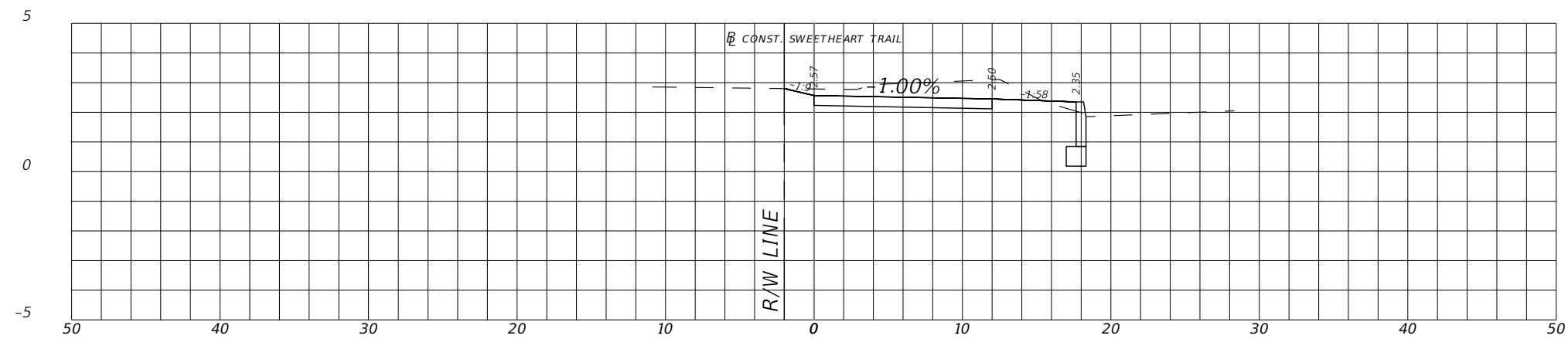
SHEET NO.
7



11+00.00



10+85.00



10+50.00

REVISIONS	
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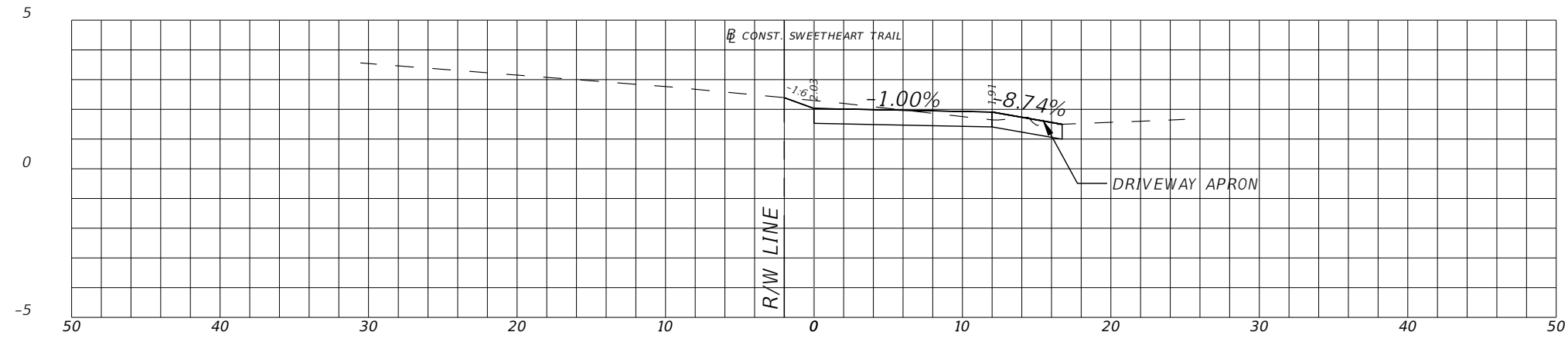


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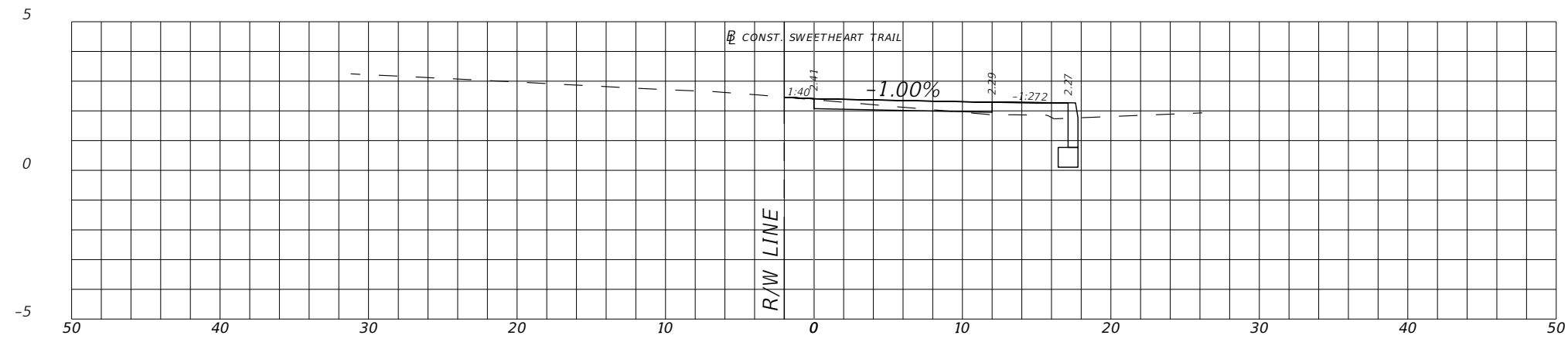
CROSS SECTIONS

SHEET NO.

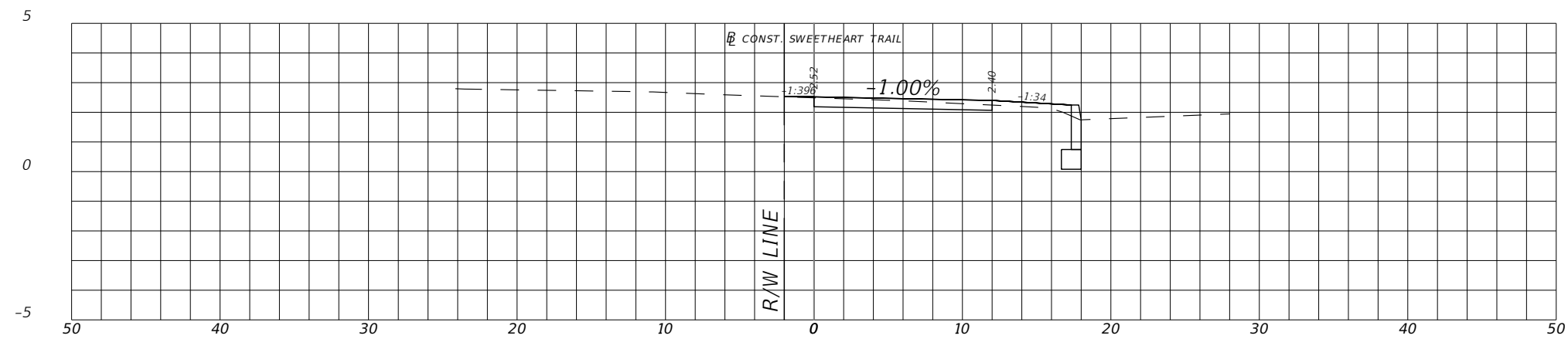
8



12+40.00



12+00.00



11+50.00

REVISIONS	
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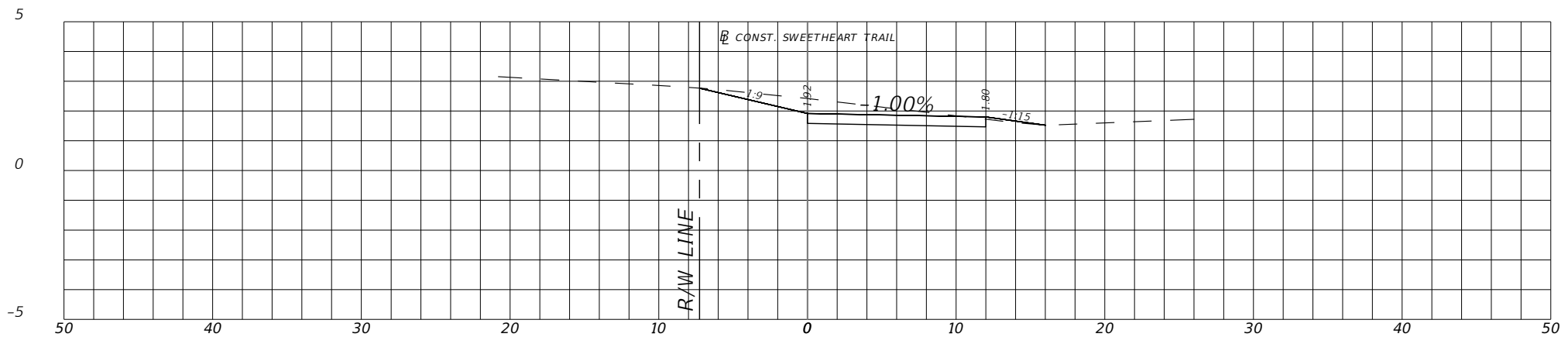


SWEETHEART TRAIL
(SICKLER DRIVE)

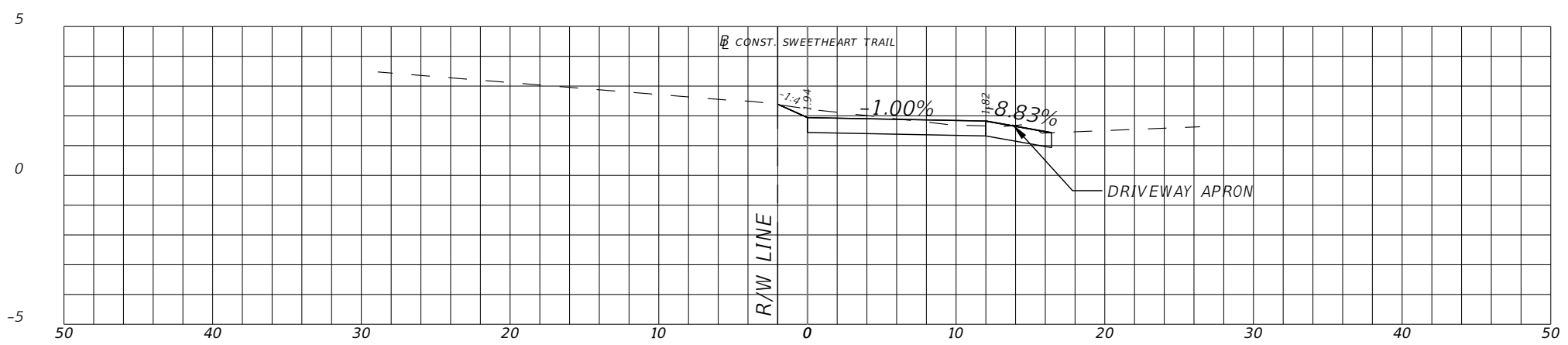
CROSS SECTIONS

SHEET NO.

9



13+00.00



12+50.00

REVISIONS	
DATE	DESCRIPTION



**CITY OF
DAYTONA BEACH**

MICHAEL STEVEN REPSCH, P.E.
P.E. LICENSE NUMBER 79870
ALTA PLANNING + DESIGN
313 DATURA STREET, SUITE 100
WEST PALM BEACH, FL 33401
CERTIFICATE OF AUTHORIZATION 31108



SWEETHEART TRAIL
(SICKLER DRIVE)

CROSS SECTIONS

SHEET NO.
10

SITE DESCRIPTION

PROJECT NAME AND LOCATION

SWEETHEART TRAIL
(SICKLER DRIVE)
FPID: 439871-1-54-01
CITY OF DAYTONA BEACH
VOLUSIA COUNTY, FL

*SEE COVER SHEET FOR LOCATION MAP

PROJECT OWNER AND ADDRESS

CITY OF DAYTONA BEACH
301 S. RIDGEWOOD AVE
DAYTONA BEACH, FL 32114

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF CONSTRUCTION 0.06 MILES OF PROPOSED CONCRETE GREENWAY WITH MINIMAL DISTURBANCE OF SURROUNDING AREA. REQUIRED DRAINAGE DESIGN IS LIMITED TO GRADING TO MAINTAIN THE EXISTING CONDITIONS.

PROJECT AREA: 0.066 ACRES (RIGHT OF WAY)
TOTAL DISTURBED AREA: 0.158 ACRES

ULTIMATE RECEIVING WATERS: HALIFAX RIVER

ACTIVITIES THAT REQUIRE EROSION CONTROL

CLEARING AND GRUBBING; GRADING

*SEE PLANS FOR THE LOCATION OF TEMPORARY SEDIMENT BARRIERS AND OTHER EROSION CONTROL METHODS.

SOIL PARAMETERS

TURNBULL VARIANT SAND 68
CERTIFICATION OF LOCAL, STATE AND FEDERAL LAWS

THE FOLLOWING REQUIRED PERMITS ARE BEING OBTAINED:

EXEMPTION FROM SJRWMD ENVIRONMENTAL RESOURCE PERMIT

SEQUENCE OF MAJOR ACTIVITIES

THE ORDER OF CONSTRUCTION IS AS FOLLOWS:

1. INSTALL SILT FENCES AND OTHER EROSION CONTROL METHODS
2. FINISH CLEARING AND GRUBBING
3. REMOVE AND STORE TOPSOIL
4. PROVIDE INITIAL GRADING AS REQUIRED
5. STABILIZE ALL DISTURBED AREAS AS SOON AS POSSIBLE
6. INSTALL RIGHT TURN LANE AND SIDEWALK IMPROVEMENTS
7. FINISH GRADING ENTIRE PROJECT
8. REMOVE ACCUMULATED SEDIMENT
9. REMOVE ANY ITEMS THAT ARE NOT REQUIRED

TIMING OF CONTROL MEASURES

THE INSTALLATION OF SILT FENCE (AND OTHER EROSION CONTROL MEASURES) AND TEMPORARY CONSTRUCTION ENTRANCE(S) SHALL OCCUR PRIOR TO CLEARING AND GRUBBING ACTIVITY. AFTER CONSTRUCTION IS COMPLETE, THE ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE AREAS SHALL BE REGRADED AND PERMANENTLY STABILIZED AS SHOWN ON THE PLANS.

EROSION AND SEDIMENT CONTROLS

BEST MANAGEMENT PRACTICES SHALL BE USED FOR THIS PROJECT TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN-OFF. THE LOCATION AND DETAILS OF EROSION CONTROL METHODS ARE SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING THESE CONTROL METHODS AS SHOWN ON THE PLANS OR AS REQUIRED. HE/SHE SHALL ALSO PROVIDE THE REQUIRED EROSION PROTECTION AS REQUIRED BY LOCAL, STATE AND FEDERAL LAW

STORMWATER MANAGEMENT

UNDER PRESENT CONDITIONS, STORM WATER RUNOFF WITHIN THE PROJECT CORRIDOR FLOWS OVERLAND INTO AN OPEN CHANNEL SYSTEM JUST UPSTREAM OF THE SYSTEM'S DIRECT DISCHARGE TO THE HALIFAX RIVER. IN PROPOSED CONDITIONS, ROADSIDE SWALES AND LOCAL DEPRESSIONAL AREAS WILL BE CREATED WHICH WILL RECEIVE AND STORE SMALL AMOUNTS OF RUNOFF, SUCH THAT EXISTING DRAINAGE PATTERNS ARE MAINTAINED.

STABILIZATION PRACTICES:

TEMPORARY STABILIZATION - NO TEMPORARY STABILIZATION IS ANTICIPATED TO BE REQUIRED.

PERMANENT STABILIZATION - DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASE SHALL BE STABILIZED WITH PERMANENT SOD NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.

WASTE DISPOSAL

WASTE MATERIALS - ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER WITH A SECURE LID IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITIES TO HAVE THE DUMPSTER EMPTIED AT LEAST TWICE A WEEK AND THE WASTE TAKEN TO AN APPROPRIATE LANDFILL. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE. THE SUPERINTENDENT SHALL ORGANIZE TRAINING FOR THE EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH WASTE MATERIALS. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR POSTING AND ENFORCING WASTE MATERIAL PROCEDURES.

HAZARDOUS WASTE - HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS OR AS DIRECTED BY THE MANUFACTURER. THE SUPERINTENDENT SHALL ORGANIZE THE PROPER TRAINING FOR EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH HAZARDOUS WASTE MATERIALS. THESE PROCEDURES SHALL BE POSTED ON THE SITE. THE PERSON WHO MANAGES THE SITE SHALL BE RESPONSIBLE FOR ENFORCING THE PROCEDURES.

SANITARY WASTE - SANITARY WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITY FOR COLLECTION OF THE SANITARY WASTE AT LEAST THREE TIMES A WEEK TO PREVENT SPILLAGE ONTO THE SITE.

OFFSITE TRACKING

A TEMPORARY CONSTRUCTION ENTRANCE OR OTHER MEASURES SHALL BE INSTALLED TO REDUCE OFFSITE TRACKING FROM CONSTRUCTION VEHICLES ENTERING AND EXITING THE PROJECT SITE, WHICH SHALL BE MAINTAINED PROPERLY TO ENSURE THEIR CONTINUED EFFECTIVE OPERATION. ALL TRUCKS HAULING MATERIALS OFFSITE SHALL BE COVERED WITH A TARPULIN.

ITEMS REQUIRING POLLUTION PREVENTION

THE FOLLOWING ITEMS ARE EXPECTED TO BE PRESENT WITHIN THE PROJECT AREA:

- CONCRETE
- CLEANING SUPPLIES
- FERTILIZERS
- DETERGENTS
- METAL PIECES
- WOOD
- PETROLEUM BASED PRODUCTS

THE FOLLOWING ARE NON-STORM WATER SOURCES THAT MAY BE ENCOUNTERED AT THE SITE AND SHOULD BE DIRECTED TO THE SEDIMENT BASIN, IF UTILIZED, PRIOR TO DISCHARGE:

- UNCONTAMINATED GROUNDWATER EXPOSED DURING EXCAVATION
- PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

SPILL PREVENTION AND CONTROL

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

- SUPERINTENDENT SHALL INSPECT PROJECT AREA DAILY FOR PROPER STORAGE, USE, AND DISPOSAL OF CONSTRUCTION MATERIALS.
- STORE ONLY ENOUGH MATERIAL ON SITE FOR PROJECT COMPLETION.
- ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER.
- ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER CONTAINER AND IF POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER.
- PRODUCTS SHALL NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER.
- ALL PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

HAZARDOUS PRODUCTS

- MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED. IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION SHALL BE SAVED.
- PROPER DISPOSAL PRACTICES SHALL ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS.

PRODUCT SPECIFIC PRACTICES

- PETROLEUM PRODUCTS MUST BE STORED IN PROPER CONTAINERS AND CLEARLY LABELED. VEHICLES CONTAINING PETROLEUM PRODUCTS SHALL BE PERIODICALLY INSPECTED FOR LEAKS. PRECAUTIONS SHALL BE TAKEN TO AVOID LEAKAGE OF PETROLEUM PRODUCTS ON SITE.
- CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER WITHIN THE PROJECT AREA.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

- SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES AND RESOURCES.
- THE FOLLOWING CLEAN-UP EQUIPMENT MUST BE KEPT ON-SITE NEAR THE MATERIAL STORAGE AREA: GLOVES, MOPS, RAGS, BROOMS, DUST PANS, SAND, SAWDUST, LIQUID ABSORBER, GOGGLES, AND TRASH CONTAINERS.
- ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE.
- WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER PROTECTIVE COVERING TO PREVENT INJURY.
- TOXIC SPILLS MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL.
- AFTER A SPILL, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL, MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL UP SHALL BE RECORDED.
- THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND IS RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS. THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATING THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANUP PROCEDURES.

MAINTENANCE AND INSPECTION PRACTICES

THE FOLLOWING ARE MAINTENANCE AND INSPECTION PRACTICES THAT SHALL BE COMPLETED BY THE CONTRACTOR:

- ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL BY THE SUPERINTENDENT OR SOMEONE UNDER HIS/HER DIRECT SUPERVISION.

MAINTENANCE AND INSPECTION PRACTICES, CONT.

- ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE KEPT IN GOOD CONDITION. REPAIRS MUST BE MADE WITHIN 24 HOURS OF REPORT.
- THE SILT FENCE SHALL BE CLEARED OF SEDIMENT WHEN SEDIMENT MEASURES ONE-THIRD THE HEIGHT OF THE FENCE.
- THE SILT FENCE SHALL BE INSPECTED PERIODICALLY FOR HEIGHT OF SEDIMENT AND CONDITION OF FENCE.
- IF UTILIZED, THE SEDIMENT BASINS/DITCHES SHALL BE CHECKED MONTHLY FOR DEPTH OF SEDIMENT. THEY SHALL BE CLEANED WHEN SEDIMENT REACHES 10%OF TOTAL CAPACITY AND AFTER CONSTRUCTION IS COMPLETE.
- IF UTILIZED, THE DIVERSION DIKE SHALL BE INSPECTED MONTHLY. ANY BREACHES SHALL BE PROMPTLY REPAIRED.
- ALL SEEDING/SODDING SHALL BE CHECKED FOR PROPER GROWTH AND UNIFORMITY. UNSTABILIZED AREAS SHALL BE RE-SODDED.
- A MAINTENANCE REPORT SHALL BE COMPLETED DAILY AFTER EACH INSPECTION OF THE SEDIMENT AND EROSION CONTROL METHODS. THE REPORTS SHALL BE FILED IN AN ORGANIZED MANNER AND RETAINED ON-SITE DURING CONSTRUCTION. AFTER CONSTRUCTION IS COMPLETED, THE REPORTS SHALL BE SAVED FOR AT LEAST THREE YEARS. THE REPORTS SHALL BE AVAILABLE FOR ANY AGENCY THAT HAS JURISDICTION OVER EROSION CONTROL.
- THE SUPERINTENDENT SHALL ORGANIZE THE TRAINING FOR INSPECTION PROCEDURES AND PROPER EROSION CONTROL METHODS FOR EMPLOYEES THAT COMPLETE INSPECTIONS AND REPORTS.

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION. IT IS DESIGNED IN ACCORDANCE WITH AN EXISTING SYSTEM AND QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION OBTAINED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE.

SIGNED: *Michael S. Respch* DATE: 11/29/18
MICHAEL STEVEN RESPCH, P.E.
FLORIDA REGISTRATION NUMBER: 79870
PROFESSIONAL ENGINEER

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE/DATE	COMPANY NAME/ADDRESS	RESPONSIBILITY

REVISIONS	
DATE	DESCRIPTION



CITY OF DAYTONA BEACH

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SWEETHEART TRAIL
(SICKLER DRIVE)

STORMWATER POLLUTION PREVENTION PLAN

SHEET NO. 11

TRAFFIC CONTROL GENERAL NOTES:

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH 2018/2019 FDOT DESIGN STANDARDS INDEX 600, 601, 602, 603, 604, 605, AND 660.
2. IN ACCORDANCE WITH FDOT SPECIFICATIONS 8-6.4, SPECIAL EVENT DAYS FOR THIS PROJECT INCLUDE: SPEED WEEK AND BIKE WEEK.
3. THE POSTED SPEED DURING ALL PHASES OF CONSTRUCTION SHALL NOT BE CHANGED.
4. LANE CLOSURE RESTRICTIONS: NONE, HOWEVER LANE CLOSURES ARE ONLY ALLOWED DURING ACTIVE WORK PERIODS
5. EXISTING SIGNS SHALL BE MAINTAINED AT ALL TIMES. ALL EXISTING SIGNS, WHEN TAKEN OUT OF USE, SHALL BE DISPOSED OF ACCORDING TO SPECIFICATIONS.
6. ALL EXISTING PAVEMENT MARKINGS AND REFLECTIVE PAVEMENT MARKERS OUTSIDE THE LIMITS OF CONSTRUCTION WHICH ARE DISTURBED OR REMOVED DUE TO TEMPORARY DETOURS AND/OR CONSTRUCTION OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT DESIGN STANDARDS, INDEX NOS. 17345, 17346, AND 17352. PAYMENT FOR THIS SHALL BE INCLUDED IN PAY ITEM 102-1 (MAINTENANCE OF TRAFFIC).
7. THE CONTRACTOR SHALL RESTORE DROP OFF CONDITIONS FOR INACTIVE WORK ZONES PER FDOT STANDARD INDEX 600 SHEET 9 OF 12.
8. CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE DRIVEWAYS AT ALL TIMES. SURFACE SHALL BE FIRM AND UNYIELDING.
9. SIDEWALK CAN ONLY BE CLOSED TO PEDESTRIAN TRAFFIC BETWEEN 7 AM AND 6 PM. MAINTAIN PEDESTRIAN TRAFFIC ON EXISTING AND NEWLY COMPLETED SIDEWALK DURING ALL INACTIVE WORK PERIODS.

REVISIONS	
DATE	DESCRIPTION



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SWEETHEART TRAIL
(SICKLER DRIVE)

**TEMPORARY TRAFFIC
CONTROL PLAN**

SHEET
NO.

12