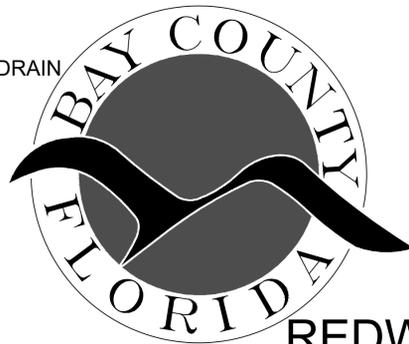
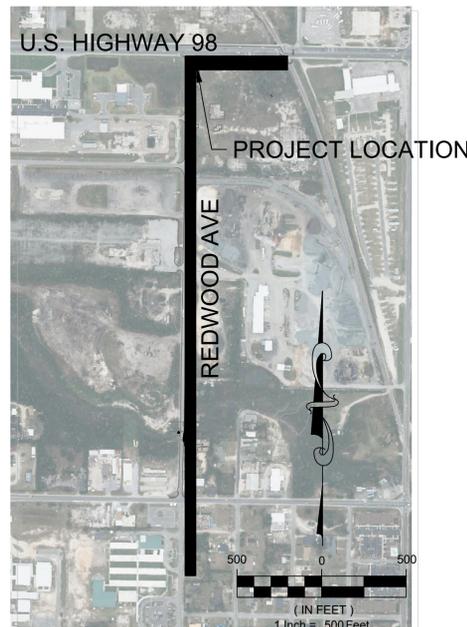


**EXHIBIT 3  
CONSTRUCTION PLANS**

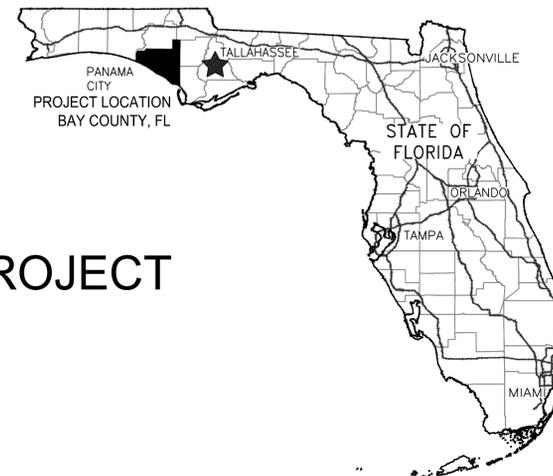
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SITE DATA

APPROXIMATELY 2,740 LF OF 48-IN RCP STORM DRAIN ALONG EAST 15TH ST AND REDWOOD AVENUE.



BAY COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION CONTRACT PLANS DEO AGREEMENT NO.M0015 (FEDERAL FUNDS) REDWOOD AVENUE DRAINAGE IMPROVEMENTS PROJECT BAY COUNTY, FL



MADRIDCPWG ENGINEERING, INC. 3918 N. HIGHLAND AVE. TAMPA, FL 813-361-2644 WWW.MADRIDCPWG.COM



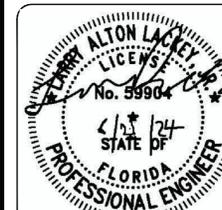
REDWOOD AVENUE DRAINAGE IMPROVEMENTS REDWOOD AVENUE, PANAMA CITY, FL 32401 COVER PAGE

Sheet List Table with columns for Sheet Number and Sheet Title. Includes sheets for COVER, GENERAL NOTES AND LEGEND, BID ITEMS, EXISTING CONDITION, DEMOLITION, AND EROSION CONTROL KEY SHEET, PLAN AND PROFILE KEY SHEET, INLET - DETAIL A, OUTLET - DETAIL B, NUTRIENT REDUCTION UNIT DETAILS, GEOTECHNICAL SURVEY, MAINTENANCE OF TRAFFIC PLAN, and STORMWATER POLLUTION PREVENTION PLAN.

BOARD OF COUNTY COMMISSIONERS

Tommy Hamm, Chairman, District 1; Robert Carroll, Commissioner, District 2; William T. Dozier, Commissioner, District 3; Douglas Moore, Vice Chairman, District 4; Clair Pease, Commissioner, District 5.

THIS HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY LARRY A. LACKEY, JR., PE ON THE REFERENCED DATE USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPY.



LARRY A. LACKEY, P.E. FLORIDA REG. PROF. ENGINEER No.: 59904

Revision table with columns for NO., REVISION/ISSUE, DRAWN, and CHECKED.

PROJECT NO. M2315298.00 DATE NOVEMBER 2023 SCALE AS NOTED SHEET NO. COVER

C:\Users\jagalla\OneDrive - AVG Services, LLC\OneDrive - AVG Services, LLC\Projects\CPWG\Redwood Ave Drainage Improvements\CAD\Redwood Ave Drainage - Conceptual Drawings - Cover.DWG

GENERAL NOTES:

- 1. FOR THE PURPOSE OF DETERMINING THEIR COST TO PERFORM THE WORK, THE CONTRACTOR SHALL PHYSICALLY EXAMINE THE ENTIRE PROJECT SITE AND INFORM THEMSELVES FULLY IN REGARD TO ALL CONDITIONS PERTAINING TO WHERE ALL ASPECTS OF THE CONSTRUCTION ARE TO BE PERFORMED. CLEARING AND GRUBBING LIMITS PRESENTED IN THE PLANS ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL CONSTRUCTION LIMITS.
2. THE CONTRACTOR SHALL HAVE ALL REQUIRED PERMITS IN-HAND PRIOR TO BEGINNING CONSTRUCTION AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITS OBTAINED BY THE NECESSARY REGULATORY AGENCIES AND THOSE PERMITS OBTAINED BY THE CONTRACTOR, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT (NWFWM), AND/OR ARMY CORPS OF ENGINEERS (ACOE) PERMITS SHALL BE FURNISHED BY THE OWNER. THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH ALL OTHER REQUIRED PERMITS TO INCLUDE FDEP GENERIC PERMIT FOR DISCHARGE OF PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY.
3. THE CONTRACTOR SHALL PUT FORTH EVERY REASONABLE EFFORT TO MINIMIZE DISRUPTION AND DISTURBANCE OF ADJACENT PROPERTIES. ACCESS BY PROPERTY OWNERS TO THEIR PROPERTY SHALL BE MAINTAINED AT ALL TIMES.
4. GRADES SHOWN IN THE PLANS ARE FINISH GRADES.
5. B.M. DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY THE CONTROL POINTS AND BENCHMARK ELEVATIONS PROVIDED BY THE COUNTY. SIGNIFICANT INCONSISTENCIES BETWEEN THE CONTROL POINTS AND BENCHMARK ELEVATIONS PROVIDED BY THE COUNTY SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO COMMENCEMENT OF CONSTRUCTION. PAYMENT WILL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND PRESERVING ALL PROPERTY CORNERS AND MONUMENTS SHOWN ON THE DRAWINGS OR FOUND DURING CONSTRUCTION. IF A PROPERTY CORNER OR MONUMENT IS DESTROYED OR DISTURBED, THE CONTRACTOR SHALL HAVE IT REPLACED AND CERTIFIED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA. ALL COSTS FOR PRESERVING, REPLACING, AND CERTIFYING PROPERTY CORNERS AND MONUMENTS WILL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
7. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE BAY COUNTY SURVEYOR'S OFFICE (850) 248-8301 SHOULD BE NOTIFIED WITHOUT DELAY.
8. ANY N.A.V.D.-88 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, NOTIFY THE BAY COUNTY SURVEYOR AT (850) 248-8301.
9. THE LOCATION OF ANY UTILITIES (IF ANY) SHOWN IN THE PLAN ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION AND VERIFIED PRIOR TO PROCEEDING WITH ROAD SIDE WORK.
10. UTILITIES ARE TO BE ADJUSTED BY UTILITY OWNERS. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES WHEN ADJUSTMENTS ARE REQUIRED.

Table with 3 columns: UTILITY OWNER, PHONE NUMBER, CONTACT. Includes AT&T, FLORIDA GAS TRANSMISSION CO., GULF COAST ELECTRIC COOPERATIVE, ONE-CALL (811)\*.

\*CONTRACTOR SHALL CONTACT IRTM ONE-CALL A MINIMUM OF 5-DAYS PRIOR TO CONSTRUCTION.

- 11. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON INFORMATION PROVIDED BY THE UTILITY OWNERS, AVAILABLE RECORDS, AND SURVEYED FIELD INFORMATION. THE INFORMATION MAY NOT REFLECT ACTUAL CONDITIONS. INCLUDE ALL UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE CORRECT HORIZONTAL OR VERTICAL LOCATIONS. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS NECESSARY TO ESTABLISH THEIR LOCATIONS AND AVOID DAMAGE. THE FOLLOWING UTILITIES SHOULD BE CONTACTED FOR INFORMATION CONCERNING TYPE AND LOCATION OF THEIR FACILITIES. THE LIST MAY NOT INCLUDE ALL UTILITIES IN THE AREA.
12. PRIOR TO ANY SCHEDULED INTERRUPTION OF UTILITY SERVICE, THE CONTRACTOR SHALL COORDINATE SUCH INTERRUPTION WITH THE UTILITY PROVIDER AND PROVIDE A MINIMUM 24-HOUR NOTICE TO ALL AFFECTED PARTIES. THE CONTRACTOR SHALL NOTIFY THE ELECTRIC UTILITY PROVIDER A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES.
13. PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL INSTALL ANY REQUIRED SILT FENCING OR INLET PROTECTION FOR SILT CONTROL. LOCATION SHALL BE AS SHOWN ON THE PLANS OR DIRECTED IN THE FIELD OR AS SPECIFIED BY THE APPLICABLE REGULATORY AGENCY STANDARDS.
14. ALL EROSION CONTROL ITEMS SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE COUNTY.
15. THE CONTRACTOR IS EXPECTED TO MONITOR THE LONG-RANGE WEATHER FORECAST, AND SCHEDULE THE WORK DURING A PERIOD OF PREDICTED GOOD CONSTRUCTION WEATHER DURING THE CROSS-DRAIN INSTALLATIONS. NIGHT WORK WILL NOT BE AUTHORIZED EXCEPT IN EMERGENCY CONDITIONS AND ONLY AFTER ALL ELEMENTS OF NIGHT TRAFFIC CONTROLS THROUGH WORK ZONE ARE IMPLEMENTED.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A WORK SCHEDULE SO THAT ANY LOCATION UNDER CONSTRUCTION WILL NOT BE LEFT IN A HAZARDOUS CONDITION AT THE END OF ANY WORK PERIOD. NO TRENCHES OR SHALL BE ALLOWED TO REMAIN OPEN OVERNIGHT.
17. AT THE END OF EACH WORKDAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP-OFF ADJACENT TO THE SUBJECT TRAVEL PATH SHALL BE BACK-FILLED FLUSH WITH THE TRAVEL PATH OR SHALL BE PROTECTED WITH BARRICADES, TEMPORARY BARRIER WALL, OR APPROVED HANDRAIL.
18. THE CONTRACTOR IS TO STORE ALL EXCAVATED MATERIAL, TEMPORARY AND PERMANENT, WITHIN THE PROJECT LIMITS UTILIZING THE PROPER BEST MANAGEMENT PRACTICES (I.E. SILT FENCING AROUND THE EXCAVATED MATERIAL TO PREVENT OFFSITE RUNOFF). UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL RETURN ALL EXCESS SOIL TO THE UPLANDS AS NECESSARY TO COMPLETE FINAL GRADING. AN ACCEPTABLE ALTERNATE METHOD IS TO DISPOSE OF EXCESS EXCAVATED MATERIAL TO A LOCAL MUNICIPALITY APPROVED LANDFILL. IF AN ALTERNATE METHOD IS PREFERRED, THE CONTRACTOR SHALL SUBMIT DISPOSAL DOCUMENTATION TO THE COUNTY AND TO THE NWFWM.
19. CONTRACTOR SHALL SUBMIT HIS PLAN FOR DIVERSION OF CREEK/DITCH FLOW TO THE ENGINEER FOR APPROVAL PRIOR TO PERFORMING ANY EXCAVATION. THE NATURAL STREAM BED ADJACENT TO THE STRUCTURE SHALL NOT BE DISTURBED UNLESS ORDERED BY THE ENGINEER. EARTH BERMS WILL NOT BE PERMITTED FOR CREEK/DITCH DIVERSIONS.
20. DEWATERING WILL BE REQUIRED TO LOWER THE GROUNDWATER LEVEL TO AT LEAST THE BOTTOM OF THE EXCAVATED AREAS FOR THE CONSTRUCTION OF THE ROADWAY, HEADWALLS, PIPES, ETC. DEWATERING SHOULD BE MAINTAINED UNTIL FILL SOILS HAVE BEEN PLACED AT LEAST 12 INCHES ABOVE THE GROUNDWATER LEVEL.
21. UPON COMPLETION OF CONSTRUCTION ALL DISTURBED TERRAIN SHALL BE RESTORED TO ITS ORIGINAL STATUS AND WILL BE SODDED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
22. BEFORE FINAL INSPECTION, THE CONTRACTOR SHALL TURN OVER TO THE COUNTY A SET OF DRAWINGS SHOWING FIELD CHANGES AND ACTUAL INSTALLED CONDITIONS. THE CONTRACTOR SHALL PROVIDE TO THE COUNTY WITH TWO (2) HARD COPIES AND ONE (1) ELECTRONIC COPY OF THE AS-BUILT PLANS IN AUTOCAD. THE PLANS SHALL BE CERTIFIED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA. ALL VALVES, FITTINGS, TRANSITIONS, AND MAJOR P.I. SHALL BE LOCATED IN THREE DIMENSIONS TO THE NEAREST TENTH OF ONE FOOT.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR MINIMIZING DEPOSITION OF ON SITE SEDIMENTS ONTO SURROUNDING PUBLIC STREETS DURING CONSTRUCTION. SEDIMENT TRANSPORTED ONTO A PUBLIC ROAD, REGARDLESS OF SIZE OF THE SITE, SHALL BE CLEANED IMMEDIATELY.
24. EXISTING UTILITIES, SIGNS, PAVEMENT OR OTHER PRIVATE IMPROVEMENTS (FENCES) ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.

- 25. EXISTING MAILBOXES THAT ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS ARE TO BE RELOCATED.
26. ALL TREES, BRUSH, AND VEGETATION REMOVALS NECESSARY FOR THE INSTALLATION OF THE PROPOSED IMPROVEMENTS ARE COVERED UNDER PAY ITEM 0110-1-1.

GEOTECHNICAL NOTES:

GEOTECHNICAL CONSULTANT: ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC. 3676 HARTSFIELD ROAD TALLAHASSEE, FLORIDA, 32303 850-386-1253

CRAIG E. DUNKELBERGER, PE SENIOR GEOTECHNICAL ENGINEER FL PE NO. 49932

GEOTECHNICAL REPORT PROVIDED ON 06/22/23

BEDDING:

- 1. STRATUM 3 SOILS WERE ENCOUNTERED NEAR STATIONS 0+50, 16+00, AND 28+00. STRATUM 3 SOILS ARE NOT CONSIDERED TO BE SUITABLE FOR USE AS BEDDING AND SHOULD BE UNDERCUT A MINIMUM OF 24-INCHES AND BE REPLACED WITH BACKFILL MEETING THE COMPOSITION AND COMPACTION REQUIREMENTS OF SECTION 125 OF THE FDOT STANDARD SPECIFICATIONS. GIVEN THE FINDINGS FROM THE SOIL BORINGS RA-SW-5 AND RA-SW-6 OF THE GEOTECHNICAL REPORT BY ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC., UNDERCUTTING MAY BE REQUIRED BETWEEN STATIONS 16+00 TO 28+00. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR UNSUITABLE SOILS OR UNDERCUTTING.

BACKFILL AND COMPACTION:

- 1. SOILS ENCOUNTERED IN THE SOIL BORINGS ARE GENERALLY CONSIDERED SUITABLE FOR SUPPORT OF A CBC. IF SOILS CONTAINING ROOTS, WOOD, OR OTHER DEBRIS, OR STRATUM 3 ORGANIC SOILS ARE ENCOUNTERED AT THE PROPOSED BEARING DEPTH OF A CONCRETE BOX CULVERT, ENDWALL, OR OUTFALL STRUCTURE, THESE SOILS SHOULD BE REMOVED TO A MINUM DEPTH OF 24-INCHES BELOW THE LOWEST ELEMENT OF THE CBC AND REPLACED WITH SANDS HAVING USCS CLASSIFICATIONS OF SP OR SP-SM, OR AN AASHTO CLASSIFICATION OF A-3. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR UNSUITABLE SOILS OR UNDERCUTTING. FOUNDATIONS FOR STRUCTURES SHALL BE PREPARED IN ACCORDANCE WITH SECTION 410-10 OF THE FDOT STANDARD SPECIFICATIONS. IF UNDERCUTTING IS NOT REQUIRED, PRIOR TO PLACING THE BEDDING MATERIAL SPECIFIED IN SECTION 410-10, THE PREPARED SUBGRAD SHOULD BE COMPACTED TO 100% OF THE STANDARD PROCTOR MAXIMUM DENSITY TO A DEPTH OF 12-INCHES.

CONSTRUCTION CONSIDERATIONS:

- 1. GROUNDWATER IMPACTS AND DEWATERING - ALL CONSTRUCTION IS TO BE PERFORMED IN THE DRY, THEREFORE THE CONTRACTOR SHOULD EXPECT THAT DEWATERING AND CONTROL OF SURFACE WATER WILL BE REQUIRED. DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE FDOT STANDARD SPECIFICATIONS.
2. TEMPORARY EXCAVATIONS - THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S (OSHA) TRENCH SAFETY STANDARDS FOR ALL EXCAVATIONS THE NEED FOR TRENCH BOXES, SHORING, OR OTHER ENGINEERED SAFETY SYSTEMS MAY BE REQUIRED DEPENDING ON THE DEPTH OF THE EXCAVATIONS, PROXIMITY OF STRUCTURES OR OTHER FACILITIES.

SURVEY REPORT:

- 1. NO SEARCH OF THE PUBLIC RECORDS WAS DONE BY FGS-SURVEYORS, LLC., VISIBLE EVIDENCE OF EASEMENTS WILL BE SHOWN HEREON, BUT NO CERTIFICATION IS GIVEN THAT EASEMENTS, DEED OVERLAPS, UNDERGROUND IMPROVEMENTS OR APPARENT USES DO NOT EXIST.
2. THIS SURVEY DEPICTED HEREON WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR PROFESSIONAL SURVEYORS AND MAPPERS AS DEFINED IN CHAPTER 5J-17.051 OF THE FLORIDA ADMINISTRATIVE CODE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS PURSUANT TO SECTION 472.027 OF THE FLORIDA STATUTES.
3. NO ENVIRONMENTAL JURISDICTIONAL LINES HAVE BEEN DETERMINED BY FGS-SURVEYORS, LLC.
4. APPARENT USES ARE AS SHOWN.
5. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT SHOWN ON THIS SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF BAY COUNTY, FLORIDA.
6. BEARINGS SHOWN HEREON ARE REFERENCED TO THE SOUTH R/W LINE OF 15TH STREET, SAID LINE BEARING N88°53'57W AS ESTABLISHED BY STATE PLANE COORDINATES, FLORIDA NORTH ZONE, NORTH AMERICAN DATUM OF 1983.
7. THE DISTANCES SHOWN HEREON ARE IN U.S. SURVEY FEET.
8. THE ELEVATIONS SHOWN HERE ON ARE IN U.S. SURVEY FEET, NORTH AMERICAN VERTICAL DATUM OF 1988.
9. THIS PARCEL LIES IN FLOOD ZONE X (NO MINIMUM), X (0.2%), AE (13), AND AE (34), AS DETERMINED BY SCALE FROM FEMA PANEL #12005C0342 H, DATED 06/02/2009, AND FURNISHED BY THE FEMA FLOOD MAP SERVICE CENTER.
10. SURVEYOR INFORMATION: HORACE WAYNE WALKER, JR. - FL PSM No.5029 DOUGLAS W. COTHERN - FL PSM No.6508 04 - MAY - 2023

EXISTING LEGEND:

Legend defining symbols for No. OR #, L.B., L.S., P.S.M., O.R., P.B., D.B., R/W, FCM, FIR, FND, SIR, ID, NO ID, NAD, NAVD, INV, (F), (D), (P), RCP, (TV), (M), (E), (G), (H), (V), (A), (S), (R).

DEMO AND EROSION CONTROL LEGEND:

Legend defining symbols for ASPHALT, CONCRETE, GRAVEL, and SILT FENCE.

SITE LEGEND:

Legend defining symbols for (FAD) FOUND ALUMINUM DISK FLORIDA DOT, (FCM) FOUND 4"x4" CONCRETE MONUMENT IDENTIFICATION NUMBER FURNISHED, (FIP) FOUND IRON PIPE, NO IDENTIFICATION, (FIR) FOUND 1/2" CAPPED IRON ROD, AS LABELED, and NEW STORM PIPE.

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REDWOOD AVENUE DRAINAGE IMPROVEMENTS REDWOOD AVENUE, PANAMA CITY, FL 32401 GENERAL NOTES AND LEGEND

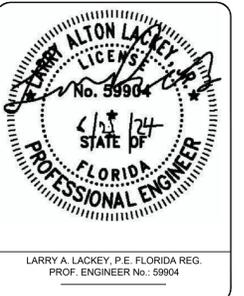


Table with columns for DRAWN, CHECKED, REVISION/ISSUE, and NO.

PROJECT NO. M2315298.00 DATE NOVEMBER 2023 SCALE AS NOTED SHEET NO. G-101

BASE BID PAY ITEMS:

PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNITS OF MEASURE	QUANTITY
0101 1	MOBILIZATION	LS	1.0
0110 1 1	CLEARING & GRUBBING	LS	1.0
0110 4 10	REMOVAL OF EXISTING PAVEMENT	SY	151.0
0102 1	MAINTENANCE OF TRAFFIC	LS	1.0
0570-1-2	PERFORMANCE TURF	SY	6,333.0
SPI - 1	RELOCATION OF UTILITY CONFLICTS	LS	1.0
0104 11	FLOATING TURBIDITY BARRIER	LF	25.0
0104 10 3	SEDIMENT BARRIER	LF	2,611.0
0520 1 7	CONCRETE CURB & GUTTER, TYPE E	LF	26.0
0327 70 1	MILLING EXISTING ASPHALT PAVEMENT, 1" AVG DEPTH	SY	215.0
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, 2" THICK	TN	44.5
0337 7 82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, 1" THICK	TN	18.5
0522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	35.0
0285 706	OPTIONAL BASE, LIMEROCK, 8" THICK	SY	335.0
0530 3 3	RIPRAP-RUBBLE, BANK AND SHORE, 2' THICK	TN	45.0
0536 1 1	GUARDRAIL -ROADWAY, GENERAL TL-3	LF	120.0
0536 7 1	SPECIAL GUARDRAIL POST - DEEP POST FOR SLOPE BREAK CONDITION	EA	14.0
0536 7 2	SPECIAL GUARDRAIL POST-SPECIAL STEEL POST FOR CONCRETE STRUCTURE MOUNT	EA	7.0
0430-175-148	CONCRETE PIPE CULVERT, 48-IN	LF	2,710.0
0430-175-112	SDR21 PIPE CULVERT, 12-IN	LF	140.0
1050 18125	UTILITY PIPE, PLUG & PLACE OUT OF SERVICE, 20-49.9"	LF	3.0
0425 2 91	MANHOLES, J-8, <10'	EA	1.0
0425 2 92	MANHOLES, J-8, >10'	EA	8.0
SPI - 2	NUTRIENT REDUCTION UNIT	EA	1.0
0430 548 120	STRAIGHT CONCRETE ENDWALL, INDEX 430-030, 48" PIPE	EA	1.0
SPI - 3	SPECIAL OUTFALL STRUCTURE	EA	1.0

BASE BID PAY ITEM NOTES:

THE FOLLOWING PAY ITEM NOTES EMPHASIZE PARTS OF FDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION (LATEST EDITION) OR MODIFICATIONS TO FDOT STANDARD SPECIFICATIONS BY THE PLANS, AND/OR SPECIAL PROVISIONS. ITEMS CODED PER FDOT 2024 BASIS OF ESTIMATES.

PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNITS OF MEASURE
0101 1	MOBILIZATION <i>PAY ITEM 0101-1, CONSISTS OF WORK AND OPERATIONS NECESSARY TO BEGIN WORK ON THE PROJECT. INCLUDES MOVING IN EQUIPMENT AND PERSONNEL, ESTABLISHING TEMPORARY OFFICES, SAFETY EQUIPMENT, SANITARY FACILITIES, AND OFFSITE STORAGE YARD AND ANY OTHER EQUIPMENT, LABOR, FEES, PERMITS, OR ACTIVITIES NECESSARY TO COMMENCE THE WORK. INCLUDES SURVEYING, BOND AND INSURANCE EXPENSES, AND PREPARATION OF AS-BUILTS IN AUTOCAD AND PAPER FORMAT. ALSO CONSISTS OF SECURITY SERVICES AND/OR EXPENSES ASSOCIATED WITH NIGHT WORK.</i>	LS
0110 1 1	CLEARING & GRUBBING <i>PAY ITEM 0110-1-1, LUMP SUM, CONSISTS OF COMPLETE REMOVAL AND DISPOSAL OF ALL VEGETATION, TOP SOIL REMOVAL AND STOCKPILE, TOPSOIL REDISTRIBUTION, DEBRIS, DRAINAGE STRUCTURES, FLEXIBLE PAVEMENT, BUILDINGS OR ANY OTHER OBSTRUCTIONS IN ALL AREAS WHERE EXCAVATION IS TO BE DONE, OR WHERE EMBANKMENTS OR STRUCTURES WILL BE CONSTRUCTED. THIS INCLUDES ROADWAY AREA, DITCH AREA, BORROW AND MATERIAL PITS, AND AREAS WHERE CULVERTS OR PIPE LINES WILL BE CONSTRUCTED. ALSO INCLUDES SHRUB AND TREE TRIMMING OR REMOVAL IDENTIFIED IN THE CONTRACT DOCUMENTS.</i>	LS
102 1	MAINTENANCE OF TRAFFIC <i>PAY ITEM 0102-1, LUMP SUM PRICE, CONSISTS OF ALL ITEMS REQUIRED TO SAFELY MAINTAIN TRAFFIC THROUGHOUT A TRANSPORTATION WORK ZONE WITH MINIMAL INCONVENIENCE TO THE PUBLIC. THIS INCLUDES SIGNS, POSTS, TEMPORARY FENCING, ACCESSORIES, BARRICADES, CONNECTIONS, CONES, PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGNS, INSTALLATION, AND REMOVAL. INCLUDES REMOVAL AND REINSTALLATION OR RELOCATION OF EXISTING TRAFFIC SIGNS AS NECESSARY. MAILBOXES DAMAGED BY CONTRACTOR SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. INCLUDES NOTIFICATIONS PER SECTION 102 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.</i>	LS
SPI - 1	RELOCATION OF UTILITY CONFLICTS <i>PAY ITEM SPI - 1, LUMP SUM, UNIT PRICE INCLUDES ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NECESSARY TO RELOCATE EXISTING UTILITIES OR OBJECTS TO FACILITATE INSTALLATION OF THE PROPOSED IMPROVEMENTS.</i>	LS
0536 1 1	GUARDRAIL -ROADWAY, GENERAL TL-3 <i>PAY ITEM 0536-1-1, LINEAR FOOT, CONSISTS OF THE CONSTRUCTION OF METAL GUARDRAIL ON POSTS OF TIMBER AND/OR STEEL, END TREATMENT, AND ALL APPURTENANCES INSTALLED IN ACCORDANCE WITH INDEX 400. OBJECT MARKERS USED FOR FACING REVERSE LANES OF TRAFFIC ARE INCLUDED IN THE COST OF THE GUARDRAIL.</i>	LF
0430-175-112	SDR21 PIPE CULVERT, 12-IN <i>PAY ITEM 1050-11124, LINEAR FOOT, INCLUDES FURNISHING ALL MATERIALS FOR ALL PREPARATION, EXCAVATION/TRENCHING, BACKFILL, AND INSTALLATION OF 12-IN SDR-21 PIPE MEETING ASTM D2241 POLYVINYL CHLORID (PVC) PRESSURE-RATED PIPE (SDR) STANDARDS. ALL GASKETS, LINK SEALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS ARE INCLUDED IN THE BID PRICE.</i>	LF
1050 18-125	UTILITY PIPE, PLUG & PLACE OUT OF SERVICE, 20-49.9" <i>PAY ITEM 1050-18-125, LINEAR FOOT, INCLUDES ALL MATERIALS, LABOR, AND EQUIPMENT REQUIRED TO PLUG PIPE WITH GROUT TO THE LENGTH INDICATED ON THE PLANS.</i>	LF
SPI - 2	NUTRIENT REDUCTION UNIT <i>PAY ITEM SPI - 2, EACH, INCLUDES FURNISHING ALL MATERIALS, LABOR, AND EQUIPMENT REQUIRED TO INSTALL NUTRIENT REDUCTION UNIT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.</i>	EA
0430 548 120	STRAIGHT CONCRETE ENDWALL, INDEX 430-030, 48" PIPE <i>PAY ITEM 430-548-120, EACH, INCLUDES FURNISHING ALL MATERIALS, EQUIPMENT, AND LABOR FOR THE INSTALLATION OF STRAIGHT CONCRETE ENDWALLS, 48", SINGLE, 30 DEGREES, CIRCULAR, COST SHALL BE BASED ON THE PLAN QUANTITIES UNIT PRICE FOR CLASS I CONCRETE (ENDWALLS), EA, PER FDOT STANDARD PLAN INDEX 430-030 AND INCLUDES GROUTING BETWEEN EXISTING END WALL AND PROPOSED ENDWALL.</i>	EA
SPI - 3	SPECIAL OUTFALL STRUCTURE <i>PAY ITEM SPI - 3, EACH, INCLUDES SITE PREP AND FURNISHING ALL MATERIALS, EQUIPMENT, AND LABOR FOR THE INSTALLATION OF SPECIAL OUTFALL STRUCTURE IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS. INCLUDED IN THIS ITEM ARE ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO BYPASS STREAM FLOW DURING THE CONSTRUCTION OF THE SPECIAL OUTFALL STRUCTURE, SELECTIVE DEMOLITION OF EXISTING CULVERTS, SHORING, DEWATERING, SPECIAL BACKFILL, OVEREXCAVATION, TESTING, AND ALL OTHER INCIDENTAL ITEMS REQUIRED TO CONSTRUCT THE SPECIAL OUTFALL STRUCTURE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.</i>	EA



MADRIDCPWG ENGINEERING, INC.  
3918 N. HIGHLAND AVE.  
TAMPA, FL  
813-361-2644  
WWW.MADRIDCPWG.COM



REDWOOD AVENUE  
DRAINAGE  
IMPROVEMENTS  
REDWOOD AVENUE, PANAMA CITY, FL 32401  
BID ITEMS



LARRY A. LACKEY, P.E. FLORIDA REG.  
PROF. ENGINEER No.: 59904

NO.	REVISION/ISSUE	DRAWN	CHECKED

PROJECT NO.  
M2315298.00  
DATE  
NOVEMBER 2023  
SCALE  
AS NOTED  
SHEET NO.  
G-102

















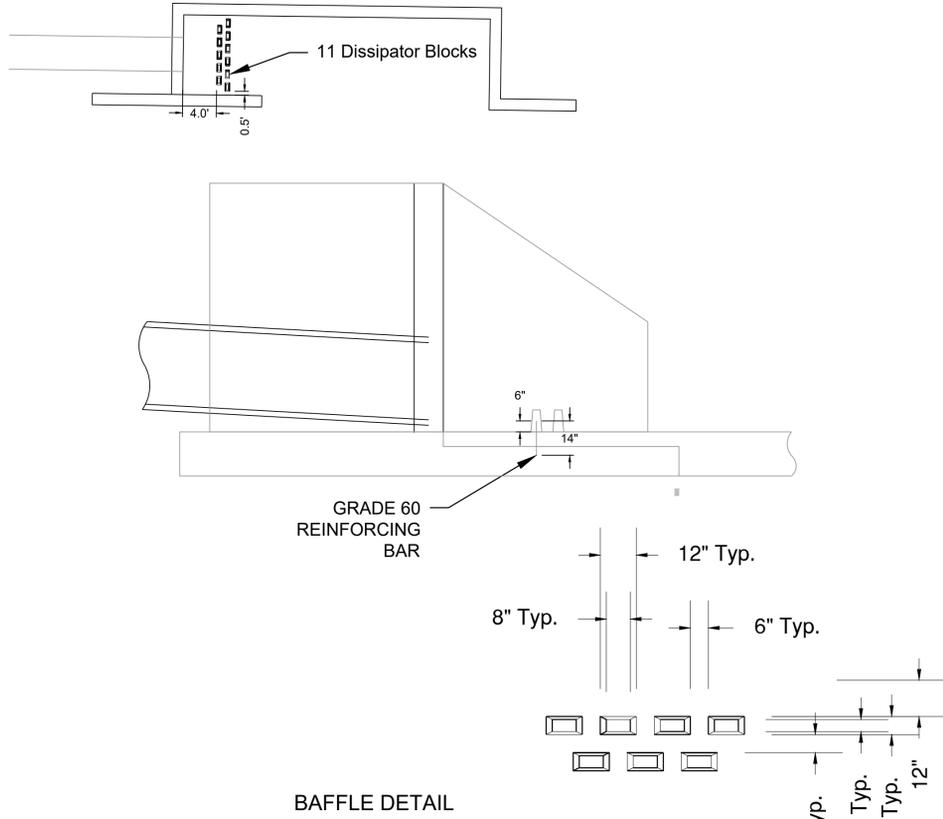




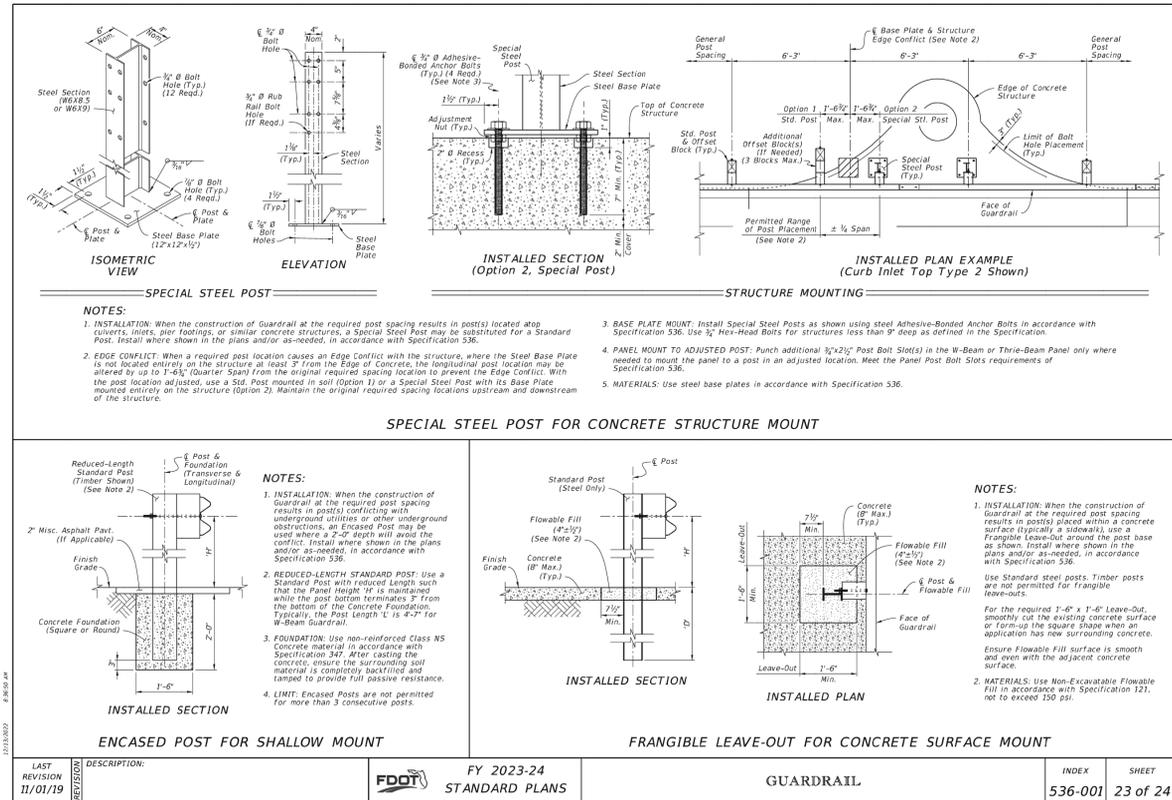




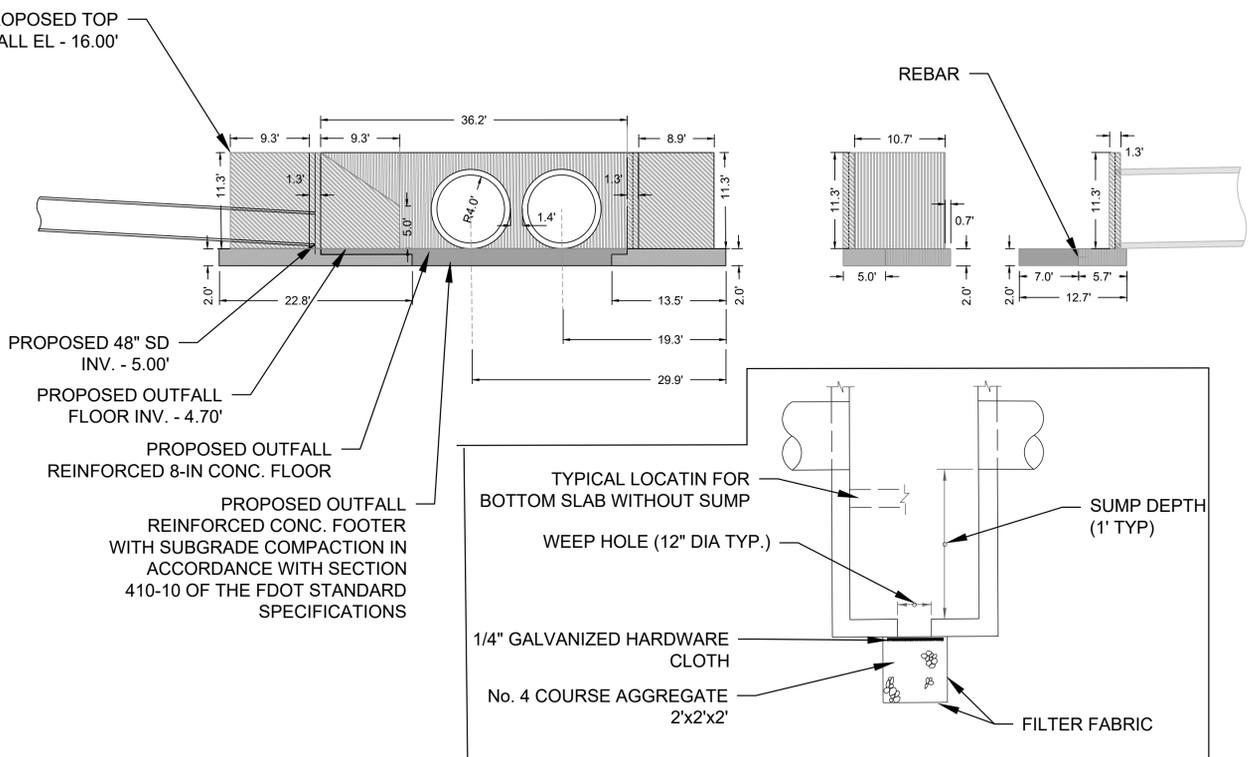
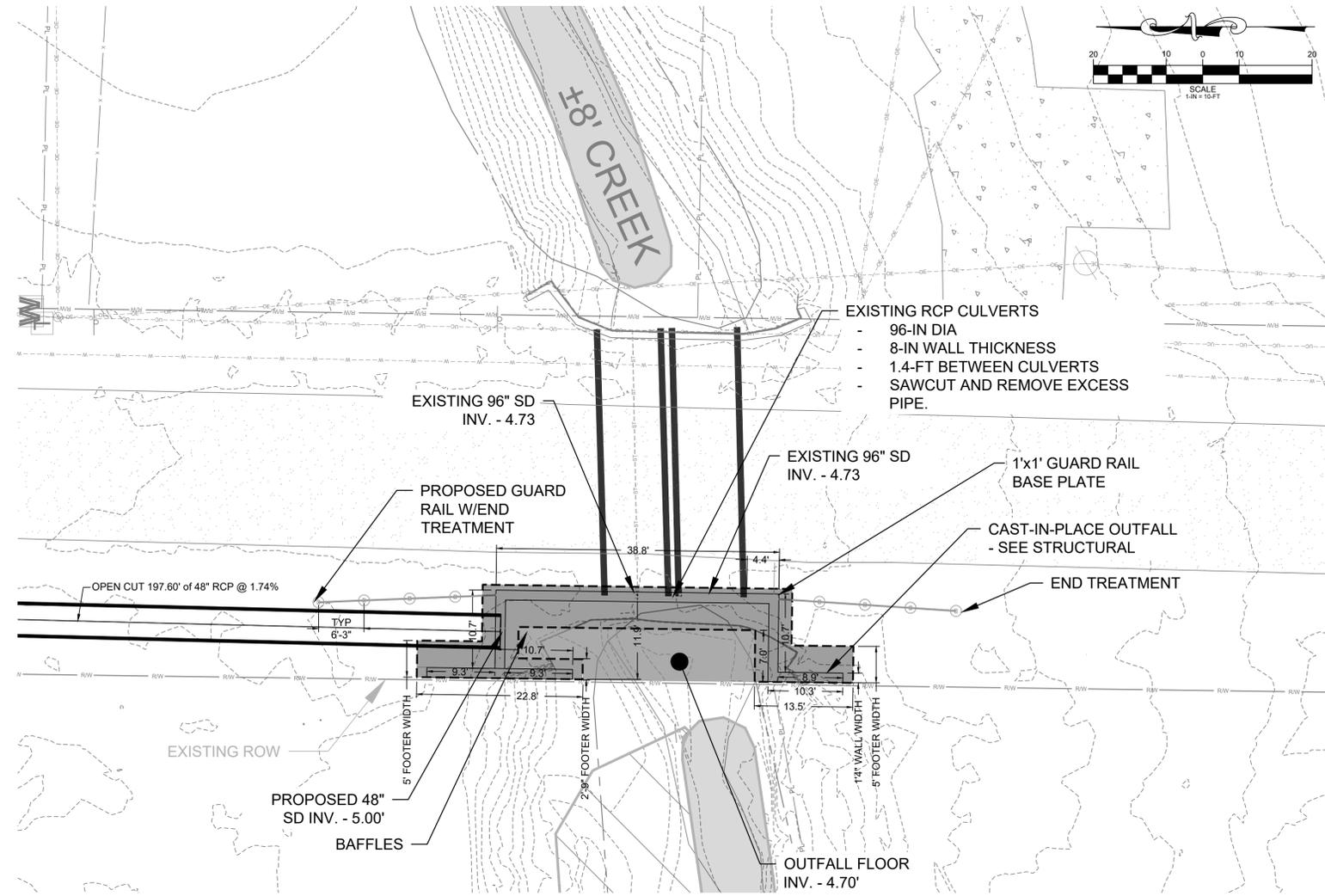




**NOTES:**  
 SUMP BOTTOM APPROPRIATE FOR ALL MANHOLE AND INLET TYPES. SUMPS ARE TO BE CONSTRUCTED IN ALL MANHOLES AS SHOWN ON THE PLANS. WEEP HOLES ARE TO BE CONSTRUCTED IN SUMP BOTTOM. COST OF SUMP BOTTOM AND WEEP HOLE TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR MANHOLE.



LAST REVISION 11/01/19	DESCRIPTION: FY 2023-24 STANDARD PLANS	INDEX 536-001	SHEET 23 of 24
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MANHOLE SUMP DETAIL

**MADRID CPWG**  
 MADRIDCPWG ENGINEERING, INC.  
 3918 N. HIGHLAND AVE.  
 TAMPA, FL  
 813-361-2644  
 WWW.MADRIDCPWG.COM



**REDWOOD AVENUE DRAINAGE IMPROVEMENTS**  
 REDWOOD AVENUE, PANAMA CITY, FL 32401

**OUTLET - DETAIL B**

**LARRY ALTON LACKEY**  
 LICENSED PROFESSIONAL ENGINEER  
 No. 59904  
 STATE OF FLORIDA  
 LARRY A. LACKEY, P.E. FLORIDA REG. PROF. ENGINEER No. 59904

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**C-402**











RECORDS OF THE INSPECTION AND THE CONSTRUCTION PERMIT MUST BE MAINTAINED AT THE CONSTRUCTION SITE AND BE READILY AVAILABLE TO THE COUNTY INSPECTOR AND/OR ENGINEER.

- COMPANY NAME: \_\_\_\_\_
- NAME OF INSPECTOR: \_\_\_\_\_
- QUALIFICATIONS OF INSPECTOR AND TITLE: \_\_\_\_\_
- MEASURES/AREAS INSPECTED: \_\_\_\_\_
- OBSERVED CONDITIONS: \_\_\_\_\_
- CHANGES NECESSARY TO THE SWPPP: \_\_\_\_\_

**STORMWATER POLLUTION PREVENTION PLAN FOR FY 24 REDWOOD AVENUE DRAINAGE IMPROVEMENTS PROJECT**  
AS PER F.D.E.P. GENERAL PERMITS N.P.D.E.S. PERMITS STORMWATER AND DREDGE AND FILL REGULATOR PERMITTING

**NARRATIVE:**

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET POLLUTION PREVENTION PLAN IS REFERENCED IN THIS NARRATIVE.

**1. SITE DESCRIPTION**

NATURE OF CONSTRUCTION ACTIVITY:

- THE PROJECT INCLUDES INSTALLATION OF APPROXIMATELY 2,715 LINEAR FEET OF 48-IN REINFORCED CONCRETE PIPE INSTALLED IN RIGHT-OF-WAY ALONG 15TH STREET AND REDWOOD AVENUE. ASSOCIATED WITH THE PIPE ARE 9 NEW MANHOLES, 1 INLET STRUCTURE, 1 OUTLET STRUCTURE, PAVEMENT AND SURFACE DEMOLITION AND RESTORATION AS NEEDED TO FACILITATE INSTALLATION OF THE PROPOSED IMPROVEMENTS.
- PERMANENT WETLAND IMPACT AREAS ARE: 0.01 ACRES.

**2. TYPICAL EROSION CONTROL CONSTRUCTION INFORMATION:**

- LOCATIONS SHOWN FOR EROSION CONTROL ARE APPROXIMATED, ACTUAL LOCATIONS TO BE DESIGNATED BY COUNTY INSPECTOR/ENGINEER AS FIELD CONDITIONS WARRANT.
- ALL EXISTING AND PROPOSED INLETS MUST HAVE EROSION CONTROL PROTECTION AS SHOWN IN DETAIL (SHEET XX - DETAIL XX) AND PER FDOT SPECIFICATIONS.
- TURBIDITY BARRIERS MUST BE ANCHORED AT BOTH ENDS.
- COUNTY INSPECTOR/ENGINEER MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES TO CONTROL SEDIMENTS (BASED ON FIELD CONDITIONS AND UNFORESEEN CIRCUMSTANCES).
- USE OF TYPE iii EROSION CONTROL FENCING SHALL BE INSTALLED PER DETAIL (SHEET XX - DETAIL XX) AND SHALL MEET FDOT SPECIFICATION 104.

**3. RECOMMENDED SEQUENCE OF CONSTRUCTION (BMP'S)**

- INSTALL ALL PERIMETER EROSION CONTROL STRUCTURES TO RETAIN AND FILTER STORMWATER AND STABILIZE DRAINAGE DISCHARGE POINTS (BMP'S)
- CLEARING AND GRUBBING ALONG THE RIGHT OF WAY AND UTILITY EASEMENT FOR ALL NECESSARY AREAS FOR CONSTRUCTION OF PROPOSED IMPROVEMENTS.
- KEEP ROADS FREE OF DEBRIS AND SAND/FILL BLANKET (TRACKING).
- INSTALL NECESSARY EROSION CONTROL STRUCTURES, MAINTAIN AND/OR REPAIR EROSION CONTROLS ALONG PERIMETER AND DRAINAGE DISCHARGE POINTS.
- CONSTRUCT ON SITE RETENTION AREAS AS NEEDED FOR SEDIMENT DISCHARGE PREVENTION AND EROSION CONTROL.
- INSTALL ALL PRESCRIBED DRAINAGE STRUCTURES.
- SOIL STABILIZATION SHOULD BE COMPLETED WITHIN TWO WEEKS AFTER INSTALLATION OF ALL STORMWATER STRUCTURES, PIPE, AND GRADING. SODDING AND RIP RAP WITH FILTER FABRIC UNDERLAY SHOULD BE INSTALLED IMMEDIATELY TO PREVENT EROSION/SEDIMENT TRANSPORT.
- PHASE CONSTRUCTION, WHEN SCHEDULING CONSTRUCTION SCHEDULE CERTAIN OPERATION FOR DRY PERIODS OF THE YEAR (AVOIDING RAINFALL IMPACTS).
- GOOD HOUSEKEEPING, PROTECT AND/OR COVER AND SEPARATE FUELING AREAS, OILS, PESTICIDES, PLANTS AND ALL HAZARDOUS BLANKET FROM RAINFALL EVENTS AND DRAINAGE STRUCTURES.

**4. SITE CHARACTERISTICS:**

- DRAINAGE PATTERN, SEE PLAN VIEW DRAWINGS.
- WETLAND IMPACT AREA 3,504 SQUARE FEET (0.08 ACRES)
- BASED UPON THE GEOTECHNICAL REPORT, THE SOILS WITHIN THE PROJECT ARE PREDOMINATELY SAND AND LOAMY (SILTY AND CLAYEY) SAND.
- SEE PLAN SHEETS FOR LOCATIONS OF EXISTING OUTFALLS AND RECEIVING WATERS.

**5. EROSION CONTROL INSPECTIONS:**

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND/OR WITHIN 24-HOURS OF A 0.5-INCH OR GREATER RAINFALL EVENT.

QUALIFIED PERSONNEL SHALL BE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) QUALIFIED STORMWATER MANAGEMENT INSPECTOR AS PER NPEDES PERMITTING.

TYPICAL AREAS TO INSPECT:

- POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- ALL POINTS OF STORMWATER DISCHARGE.
- POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM SEWER SYSTEMS.
- DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN COMPLETELY STABILIZED.
- ALL SLOPE AREAS OF STABILIZATION WITH A SLOPE OF 3 TO OR GREATER.
- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION (FUELING AREAS, OILS, PESTICIDES, PLANTS AND ALL HAZARDOUS MATERIAL).
- STORMWATER CONTROL STRUCTURES.
- ACCESS AREAS WHERE VEHICLES ENTER OR EXIT THE SITE (TRACKING MAINTENANCE).

REPORT RELEASES OF REPORTABLE QUANTITIES OF OIL OR HAZARDOUS MATERIALS (IF RELEASE OCCURS)

- NOTIFY NATIONAL RESPONSE CENTER 800/424-8802 IMMEDIATELY
- NOTIFY PERMITTING AUTHORITY IN WRITING WITHIN 14 DAYS.
- MODIFY THE POLLUTION PREVENTION PLAN TO INCLUDE:
  - DATE OF RELEASE
  - CIRCUMSTANCES LEADING TO THE RELEASE
  - STEPS TAKEN TO PREVENT REOCCURRENCE OF THE RELEASE

MODIFY POLLUTION PREVENTION PLAN AS NECESSARY TO:

- COMPLY WITH MINIMUM PERMIT REQUIREMENTS WHEN NOTIFIED BY FDEP THAT THE PLAN DOES NOT COMPLY
- ADDRESS ANY CHANGE IN DESIGN, CONSTRUCTION OPERATION OR MAINTENANCE WHICH HAS AN EFFECT ON THE POTENTIAL FOR DISCHARGE OF POLLUTANT SEDIMENTS.
- PREVENT REOCCURRENCE OF REPORTABLE QUANTITY RELEASE OF A HAZARDOUS MATERIAL OR OIL.

**6. REPAIRS AND MAINTENANCE:**

- THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24-HOURS OF INSPECTION THAT INDICATE ITEMS (EROSION CONTROL) ARE NOT IN GOOD WORKING ORDER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGE AND DAILY RAINFALL RECORDS. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ASLO INSPECT AND CERTIFY THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.
- IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS NEEDED.

**7. LITTER CONTROL AND WASTE DISPOSAL:**

- CONTRACTOR WILL BE RESPONSIBLE FOR LITTER CONTROL OF THE CONSTRUCTION SITE.
- CONTRACTOR WILL BE RESPONSIBLE OF ALL FERTILIZER AND/OR OTHER CHEMICAL CONTAINERS IN ACCORDANCE TO EPA STANDARD PRACTICES (AS DETAILED BY THE MANUFACTURERS LABELING).
- CONTRACTOR WILL BE RESPONSIBLE FOR PROPER DISPOSAL OF ALL SOLID WASTE MATERIAL, INCLUDING BUILDING AND CONSTRUCTION MATERIALS AND GARBAGE.
- CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING PROPER BATHROOM FACILITIES (PORTABLE OR OTHER) FOR THE CONSTRUCTION OPERATION AND WORKERS.
- CONTRACTOR WILL BE RESPONSIBLE FOR ADHERING TO ALL STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER OR SEPTIC TANK REGULATIONS.
- CONTRACTOR WILL BE RESPONSIBLE FOR ADHERING TO ALL APPROVED STATE AND LOCAL CODES THAT ARE REQUIRED AND/OR ASSOCIATED PERMITS.



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 REDWOOD AVENUE, PANAMA CITY, FL 32401  
**STORMWATER POLLUTION PREVENTION PLAN**



LARRY A. LACKEY P.E. FLORIDA REG.  
PROF. ENGINEER No.: 59904

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