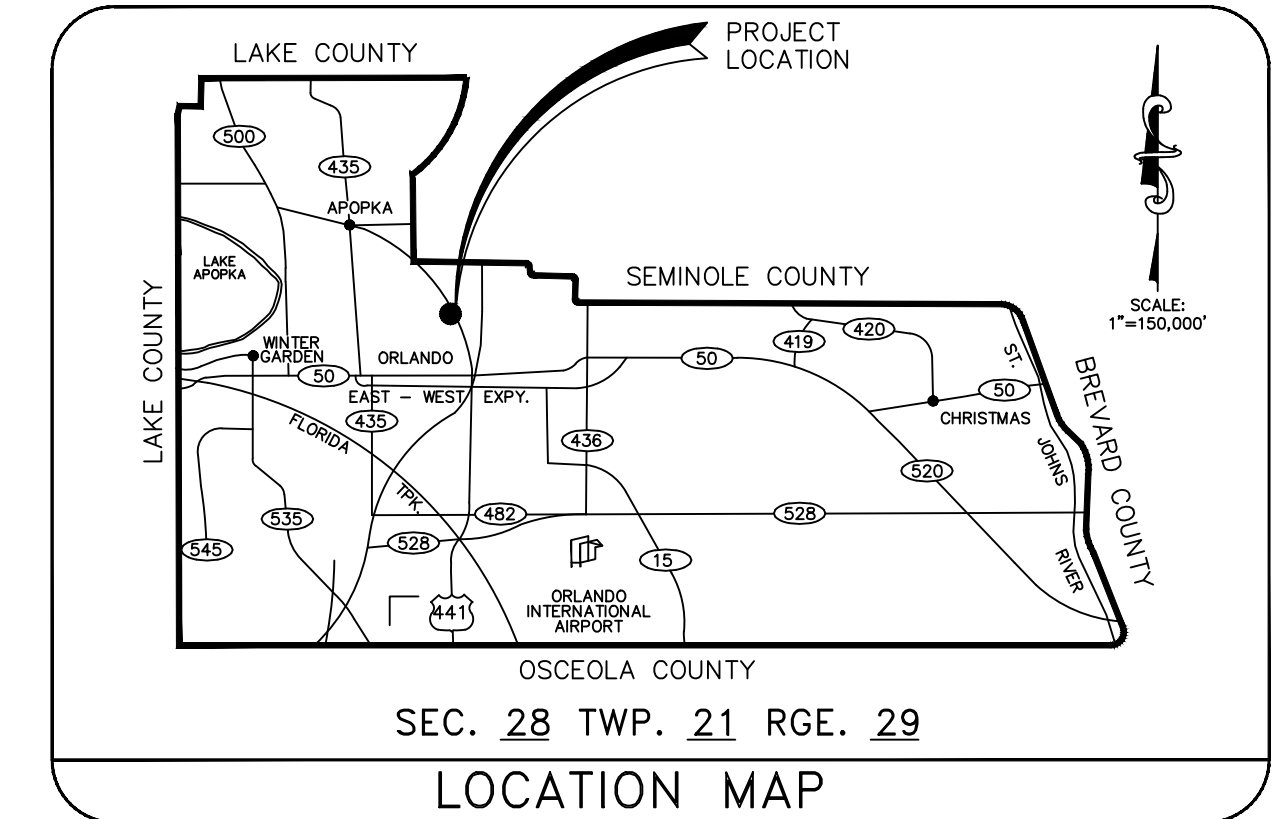




PERMIT AND BID SET

PARKS-RIVERSIDE ACRES

EROSION REPAIR (CP17243)

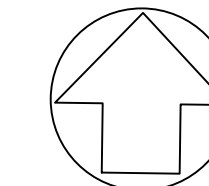
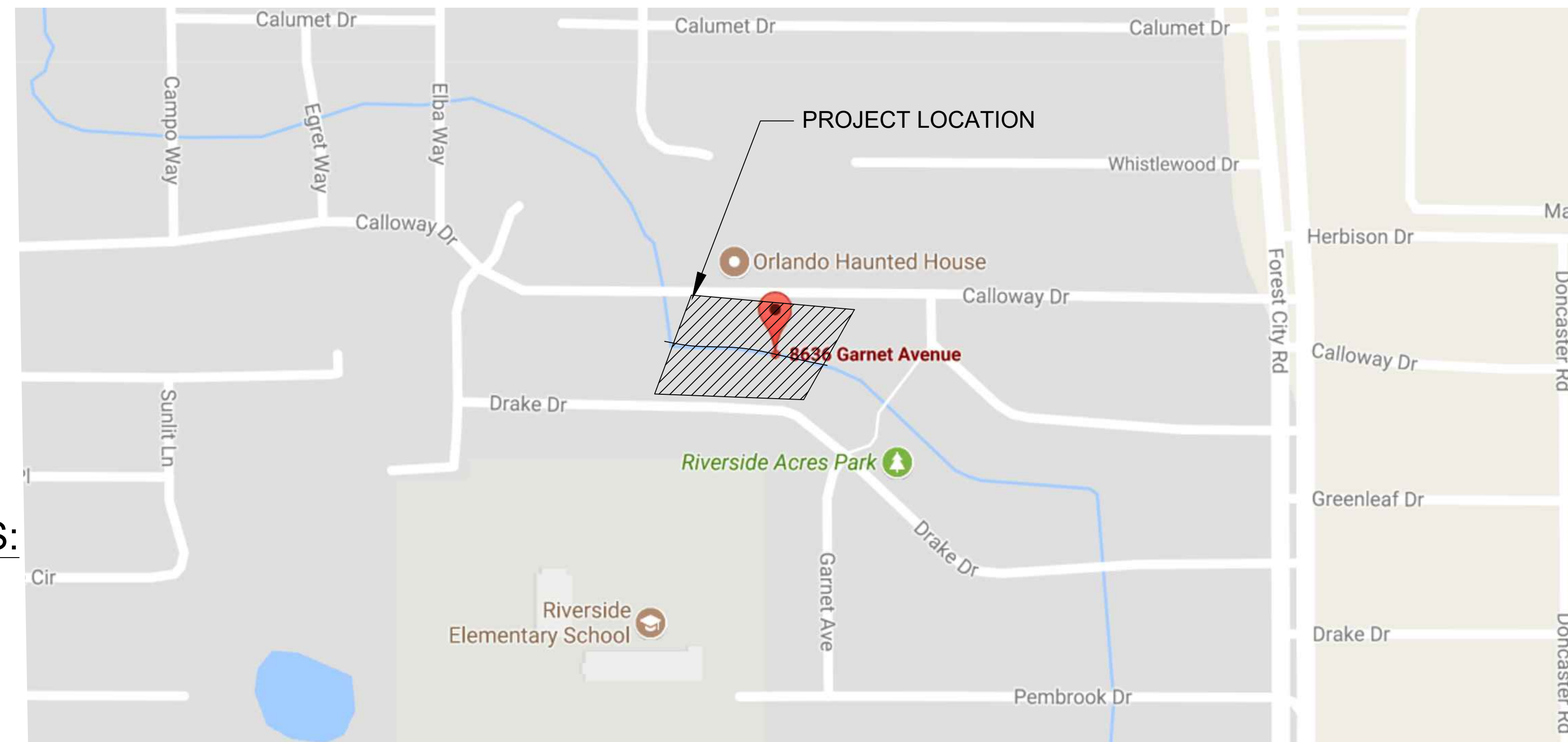


SOURCE OF BENCH MARK DATUM

VERTICAL CONTROL BASED ON ORANGE COUNTY DATUM

B.M.#
U-52 SQ-CUT IN CURB INLET @ NE CORNER RIVERSIDE PARK ROAD AND MEADOW GLENN DRIVE.

B.M.#
TP-4259 SQ-CUT ON EAST SIDE SOUTH HEADWALL OF BRIDGE ON RIVERSIDE PARK ROAD.



SHEET INDEX

- C-1 COVER SHEET
- C-2 OVER ALL SITE PLAN
- C-3 GENERAL NOTES
- C-4 EROSION RESTORATION/STABILIZATION PLAN
- C-5 TYPICAL DETAILS
- C-6 TYPICAL EROSION DETAILS

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

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

2. INFORMATION SHOWN WITHIN THESE PLANS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

STANDARDS AND SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM (2010 EDITION).

AND

FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2010 EDITION) AS AMENDED BY CONTRACT DOCUMENTS.

BOARD OF COUNTY COMMISSIONERS

TERESA S. JACOBS

COUNTY MAYOR

BETSY VANDERLEY

DISTRICT 1

BRYAN NELSON

DISTRICT 2

PETE CLARKE

DISTRICT 3

JENNIFER THOMPSON

DISTRICT 4

EMILY BONILLA

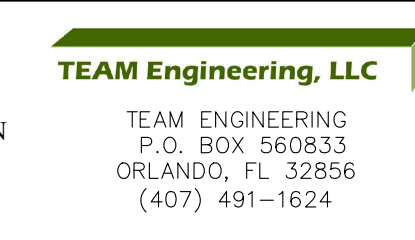
DISTRICT 5

VICTORIA P. SIPLIN

DISTRICT 6

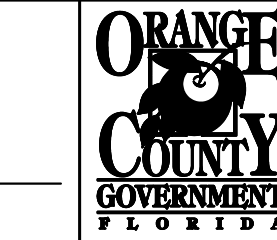
DISTRICT No. 2 ORANGE COUNTY, FLORIDA 8636 GARNET AVENUE, ORLANDO

NO.	DATE	REVISION
1	07/06/2017	60% ISSUE FOR CLIENT REVIEW
2	08/17/2017	100% SUBMITTAL



ENGINEER OF RECORD
JEFFREY EARHART, P.E.
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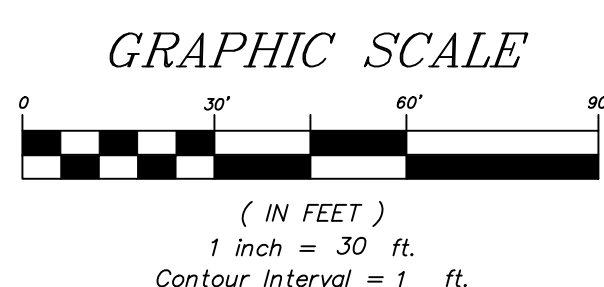
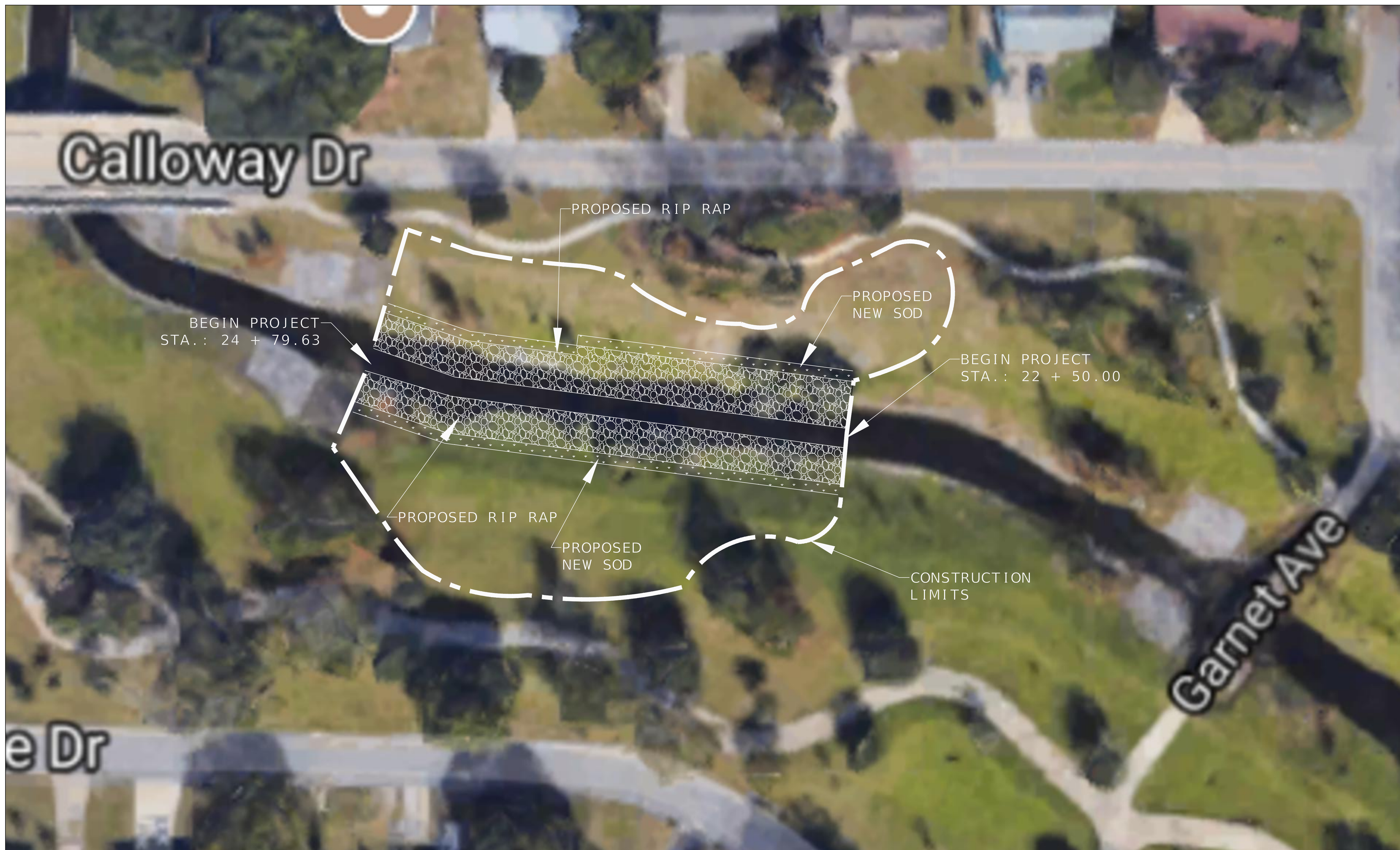
JEFFREY EARHART, P.E.
FL. LIC. NO. 49935



PARKS-RIVERSIDE ACRES
EROSION REPAIR

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CHECKED BY:	JE	JOB NO.:	170078

COVER SHEET	SHEET NUMBER C-1
1 OF 6	



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ORLANDO, FL 32856
(407) 491-1624

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ORANGE COUNTY GOVERNMENT
FLORIDA

DATE

**PARKS-RIVERSIDE ACRES
EROSION REPAIR**

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DESIGNED BY:	YB	SCALE:	1"=30'
CHECKED BY:	JE	JOB NO.:	170078

OVER ALL - SITE PLAN

SHEET NUMBER
C-2
2 OF 6

D:\Active Projects Files Copy\170078 RIVERSIDE ACRES PARK\CADD\DWG\Layouts\Riverside.acres.park.dwg

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENT OF THE PROJECT SPECIFICATIONS, THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SUPPLEMENTS THERETO, AND ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS.
2. THE DISPOSAL OF EXCESS EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. APPROVALS OF DISPOSAL SITES SHALL BE OBTAINED FROM ORANGE COUNTY PRIOR TO DISPOSAL. ALL EXCESS MATERIAL IS THE PROPERTY OF THE CONTRACTOR.
3. CONTRACTOR IS TO MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AND SIDE STREETS AT ALL TIMES.
4. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL CALL SUNSHINE ONE TWO BUSINESS DAY IN ADVANCE OF PERFORMING ANY UTILITY ADJUSTMENTS OR RELOCATIONS, SUNSHINE ONE PHONE NUMBER 1-(800)-432-4770.
5. CONTRACTOR TO VIDEOTAPE AND PHOTOGRAPH THE LIMITS OF CONSTRUCTION PRIOR TO CONSTRUCTION AND GIVE A COPY TO THE COUNTY. COST TO BE INCLUDED IN THE PRICE BID FOR ITEM NO.101-1, MOBILIZATION.
6. REMOVAL OF TREES EXISTING WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED IN ACCORDANCE WITH THE PLANS OR AS DIRECTED BY THE COUNTY. THIS ITEM OF WORK SHALL BE INCLUDED IN CLEARING AND GRUBBING.
7. SOD ALL DISTURBED AREAS UNLESS OTHERWISE DIRECTED. SOD SHALL MATCH EXISTING TYPE OF SOD WHERE SO DIRECTED BY THE ORANGE COUNTY PROJECT MANAGER.
8. PEGGED SOD TO BE PLACED ON ALL SLOPES 2:1 OR STEEPER
9. ALL STATION AND OFFSETS SHOWN REFER TO BASELINE OF CONSTRUCTION.
10. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND AS-BUILT PLANS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH PROJECT CONSTRUCTION.
11. ALL IRON AND CONCRETE MONUMENTS (INCLUDING PRM'S) SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.
12. ANY DRAINAGE PROBLEM CREATED BY CONSTRUCTION, OR EXISTING BEFORE CONSTRUCTION, NOT ALLEVIATED, SHALL BE BROUGHT TO THE ATTENTION OF THE ORANGE COUNTY PROJECT MANAGER.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE SITE CONDITIONS OF THE PROJECT AND BE FULLY SATISFIED OF BOTH THE SURFACE AND SUBSURFACE CONDITIONS AND BASE BID PRICING ACCORDINGLY.
14. THE CONTRACTOR SHALL RESTORE ALL PROPERTY DISTURBED BY CONSTRUCTION TO A CONDITION EQUAL TO OR SUPERIOR TO THAT EXISTING PRIOR TO COMMENCEMENT OF WORK. COST SHALL BE INCIDENTAL TO OTHER CONSTRUCTION WITH NO EXTRA COMPENSATION BEING ALLOWED FOR THIS ITEM OF WORK.
15. ANY U.S.C AND G.S MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, ORANGE COUNTY SURVEY SECTION 407-836-7940 AND BOTH SHALL NOTIFY: GULF COAST REGIONAL GEODETIC ADVISOR, DENIS RIORDAN, NOAA C/O MDOT, 412 EAST WOODROW WILSON AVENUE, 66-01 JACKSON, MS 32916 TELEPHONE: 601-359-5357
16. ALL STORM SEWER LINES AND INLETS SHALL BE MAINTAINED DURING CONSTRUCTION AND CLEANED OF DEBRIS AND ERODED MATERIAL AT LAST STAGES OF CONSTRUCTION.
17. WHERE MUCK, ROCK, CLAY, ORGANICS, OR OTHER MATERIAL ENCOUNTERED IS, IN THE OPINION OF THE ORANGE COUNTY PROJECT MANAGER, UNSUITABLE, THE CONTRACTOR SHALL EXCAVATE SUCH MATERIAL AND BACKFILL WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED AND SHAPED TO THE REQUIRED CROSS SECTION.
18. MATERIAL USED FOR EMBANKMENT SHALL CONSIST OF SAND, GRAVEL, A MIXTURE THEREOF, OR OTHER SUITABLE MATERIAL APPROVED BY THE ORANGE COUNTY PROJECT MANAGER. NEITHER ORGANIC NOR PEAT MATERIAL SHALL BE USED FOR FILL.
19. ALL DIMENSIONS ARE GIVEN IN FEET UNLESS OTHERWISE NOTED.
20. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND PERMIT CONDITIONS BEARING ON THE CONDUCT OF THE WORK, AS DRAWN AND SPECIFIED. IF THE CONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT VARIANCE THERewith, HE SHALL PROMPTLY NOTIFY THE ENGINEER AND ORANGE COUNTY, IN WRITING, AND ANY NECESSARY CHANGES SHALL BE ADJUSTED, AS PROVIDED IN THE AGREEMENT FOR CHANGES IN THE WORK.
21. THE CONTRACTOR SHALL BE RESPONSIBLE TO ORANGE COUNTY AND THE ENGINEER FOR THE ACTS AND OMISSIONS OF CONTRACTOR'S EMPLOYEES AND ALL HIS SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES AND OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH GOVERNMENTAL DEPARTMENTS, PUBLIC UTILITIES, SERVICE COMPANIES, AND CORPORATIONS OWNING OR CONTROLLING WATER, SEWER, GAS, ELECTRICAL, TELEPHONE, CABLE TV, AND TELEGRAPH FACILITIES SUCH AS PIPING, WIRES, CABLES, CONDUITS, POLES, WIRE GUYS, OR OTHER SIMILAR FACILITIES, INCLUDING INCIDENTAL STRUCTURES CONNECTED THERewith THAT ARE ENCOUNTERED IN THE WORK IN ORDER THAT SUCH ITEMS MAY BE PROPERLY SUPPORTED, PROTECTED, LOCATED OR ADJUSTED.
23. UNLESS OTHERWISE SPECIFIED IN THE GENERAL CONDITIONS, ALL CONSTRUCTION IS TO BE GOVERNED BY THE PLANS, APPLICABLE PERMITS, AND SPECIFICATIONS HEREIN, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING AND SAFETY CODES, LAWS AND ORDINANCES.
24. PRIOR TO PERFORMING ANY WORK WITHIN ANY PUBLIC OR UTILITY RIGHT-OF-WAY, CONTRACTOR IS RESPONSIBLE FOR STAKING PUBLIC RIGHT-OF-WAY. IN ADDITION CONTRACTOR SHALL OBTAIN AUTHORIZATION AND PERMIT FROM JURISDICTION RESPONSIBLE FOR SUCH RIGHT-OF-WAY. CONTRACTOR SHALL OBTAIN GAS I.D. NUMBER FROM LOCAL GAS COMPANY AND NOTIFY UNDERGROUND UTILITIES AT LEAST 72 HOURS PRIOR TO START OF WORK.
25. IN THE EVENT THE CONTRACTOR DISCOVERS ANY ERRORS OR OMISSIONS IN THE PLANS HE SHALL IMMEDIATELY NOTIFY THE OWNER OR OWNER'S AGENT.
26. THE OWNER, OWNER'S AGENT AND INSPECTORS OF APPLICABLE GOVERNMENT JURISDICTIONS, SHALL AT ALL TIMES HAVE ACCESS TO THE WORK WHEREVER AND WHENEVER IT IS IN PREPARATION OR PROGRESS; AND THE CONTRACTOR SHALL PROVIDE PROPER FACILITIES FOR SUCH ACCESS AND FOR THE INSPECTION.
27. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL REASONABLE AND PRUDENT PRECAUTIONS TO INSURE THAT ALL COMPLETED WORK, MATERIALS AND EQUIPMENT STORED ON SITE ARE SAFE AND SECURED FROM UNAUTHORIZED ACCESS OR USE. SUCH PRECAUTIONS MAY INCLUDE INSTALLATION OF SIGNS, FENCES, OR POSTING OF SECURITY GUARDS.
28. CONTRACTOR SHALL, AT ALL TIMES, UTILIZE ALL NORMALLY ACCEPTED AND REASONABLY EXPECTED SAFETY PRACTICES AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND GUIDELINES PERTAINING TO SAFE UTILIZATION OF EQUIPMENT OR MATERIALS AS PUBLISHED BY MANUFACTURER.
29. PRIOR TO INITIATING ANY EXCAVATION CONTRACTOR SHALL INSTALL FENCES AND TAKE ALL OTHER REASONABLE AND PRUDENT STEPS TO INSURE THAT ACCESS TO EXCAVATION BY UNAUTHORIZED PERSONNEL IS PREVENTED.

30. CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE PROVISIONS OF THE FLORIDA STATE TRENCH SAFETY ACT. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE ALL REASONABLE PROTECTION TO PREVENT DAMAGE, INJURY OR LOSS TO: ALL EMPLOYEES ON THE WORK AND ALL OTHER PERSONS WHO MAY BE AFFECTED THEREBY; ALL THE WORK AND ALL MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE, UNDER THE CARE, CUSTODY OR CONTROL OF THE CONTRACTOR OR ANY OF ITS SUBCONTRACTORS; AND OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAY, STRUCTURES AND UTILITIES NOT DESIGNATED FOR DEMOLITION IN THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC, QUASI PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR FOR THEIR PROTECTION AGAINST DAMAGE, INJURY OR LOSS, OR DESIGNED TO PROTECT THE ENVIRONMENT. THE CONTRACTOR SHALL ERECT AND MAINTAIN, AS REQUIRED BY EXISTING CONDITIONS AND PROGRESS OF THE WORK, ALL REASONABLE SAFEGUARDS FOR SAFETY AND PROTECTION, INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS, PROMULGATING SAFETY REGULATIONS AND NOTIFYING OWNERS AND USERS OF ADJACENT UTILITIES OF THE EXISTENCE OF HAZARDS AND OF THE SAFETY REGULATIONS. ALL DAMAGE OR LOSS TO ANY PROPERTY REFERRED TO IN THESE GENERAL NOTES CAUSED IN WHOLE OR IN PART BY THE CONTRACTOR, A SUBCONTRACTOR, OR BY ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY THE CONTRACTOR, EXCEPT DAMAGE OR LOSS PROPERLY ATTRIBUTABLE SOLELY TO THE ACTS OR OMISSIONS OF THE OWNER, OR THE ENGINEER OR ANYONE EMPLOYED BY THEM, OR FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, AND NOT PROPERLY ATTRIBUTABLE IN WHOLE OR IN PART, TO THE FAULT OR NEGLIGENCE OF THE CONTRACTOR. UNTIL FINAL ACCEPTANCE OF THE WORK BY OWNER, THE CONTRACTOR SHALL HAVE THE CHARGE AND CARE OF AND SHALL BEAR THE RISK OF INJURY OR DAMAGE, LOSS OR EXPENSE TO ANY PART THEREOF, OR TO ANY MATERIALS STORED ON SITE, BY THE ACTION OF THE ELEMENTS OR FROM ANY OTHER CAUSE WHETHER ARISING FROM THE EXECUTION OR NON-EXECUTION OF THE WORK. THE CONTRACTOR SHALL REBUILD, REPAIR, RESTORE AND MAKE GOOD ALL INJURIES OR DAMAGES TO ANY PORTION OF THE WORK OCCASIONED BY ANY OF THE ABOVE CAUSES BEFORE FINAL ACCEPTANCE AND SHALL BEAR THE EXPENSES THEREOF. THE CONTRACTOR SHALL NOT LOAD OR PERMIT ANY PART OF THE WORK TO BE LOADED SO AS TO ENDANGER ITS SAFETY. THOSE PARTS OF WORK IN PLACE WHICH ARE SUBJECT TO DAMAGE BECAUSE OF OPERATIONS BEING CARRIED ON ADJACENT THERETO SHALL BE COVERED, BOARDED UP OR SUBSTANTIALLY ENCLOSED WITH ADEQUATE PROTECTION BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL COMPLY IN EVERY RESPECT WITH THE FEDERAL OCCUPATIONAL HEALTH AND SAFETY ACT OF 1970 AND ALL RULES AND REGULATIONS NOW OR HEREAFTER IN EFFECT UNDER SAID ACT, AND THE CONTRACTOR FURTHER AGREES TO COMPLY WITH ANY AND ALL APPLICABLE STATE LAWS AND REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH. THE CONTRACTOR SHALL PROTECT AND KEEP ORANGE COUNTY (INCLUDING THEIR AGENTS AND EMPLOYEES) FREE AND HARMLESS FROM ANY AND ALL LIABILITY, PUBLIC OR PRIVATE, PENALTIES, CONTRACTUAL OR OTHERWISE, LOSSES, DAMAGES, COSTS, ATTORNEY'S FEES, EXPENSES, CAUSES OF ACTION, CLAIMS OR JUDGMENTS RESULTING FROM THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AS AMENDED OR ANY RULE OR REGULATION PROMULGATED THEREUNDER OR OF ANY STATE LAWS OR REGULATIONS PERTAINING TO JOB SAFETY AND HEALTH ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, AND CONTRACTOR SHALL INDEMNIFY OWNER FROM ANY SUCH CLAIMS, PENALTIES, SUITS OR ACTIONS, PUBLIC OR PRIVATE, ADMINISTRATIVE OR JUDICIAL, INCLUDING ATTORNEY'S FEES PAID OR INCURRED BY OR ON BEHALF OF OWNER, JOINTLY OR SEVERALLY, AND/OR THEIR AGENTS AND EMPLOYEES. THE CONTRACTOR FURTHER AGREES, IN THE EVENT OF A CLAIMED VIOLATION OF ANY FEDERAL OR STATE SAFETY AND HEALTH LAW OR REGULATION ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE PERFORMANCE OF WORK OR WORK TO BE PERFORMED UNDER THIS CONTRACT, OWNER MAY IMMEDIATELY TAKE WHATEVER ACTION IS DEEMED NECESSARY BY OWNER TO REMEDY THE CLAIMED VIOLATION. ANY AND ALL COSTS OR EXPENSES PAID OR INCURRED BY OWNER IN TAKING SUCH ACTION SHALL BE BORNE BY CONTRACTOR, AND CONTRACTOR AGREES TO PROTECT, HOLD HARMLESS AND INDEMNIFY OWNER AGAINST ANY AND ALL SUCH COSTS OR EXPENSES. ALL WORK PERFORMED UNDER THE CONTRACT, AND ALL EQUIPMENT, APPLIANCES, TOOLS AND LIKE ITEMS USED IN THE WORK SHALL CONFORM TO APPLICABLE SAFETY CODES AND REGULATIONS OF ANY PUBLIC OR OTHER AUTHORITY HAVING JURISDICTION, IN THE EVENT OF CONFLICTING REQUIREMENTS, THE MORE STRINGENT INTERPRETATION OR REGULATION SHALL GOVERN.
31. CONTRACTOR AND ITS SUBCONTRACTORS SHALL USE, HANDLE, TRANSPORT, AND DISPOSE OF ALL HAZARDOUS MATERIALS IN COMPLIANCE WITH ALL PRESENT FEDERAL, STATE AND LOCAL ENVIRONMENTAL, HEALTH OR SAFETY LAW, INCLUDING, BUT NOT LIMITED TO, ALL SUCH STATUTES, REGULATIONS, RULES, ORDINANCES, CODES, AND RULES OF COMMON LAW. CONTRACTOR FURTHER AGREES THAT CONTRACTOR AND ITS SUBCONTRACTORS SHALL NOT CAUSE THE DISCHARGE, RELEASE OR DISPOSAL OF ANY HAZARDOUS MATERIAL CREATED BY ITS WORK ON OR ABOUT THE JOB SITE. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY, AND BE RESPONSIBLE FOR ALL CLEANUP COSTS. CONTRACTOR AND ITS SUBCONTRACTORS SHALL, UPON COMPLETION OF PERFORMANCE OF ALL DUTIES UNDER THIS CONTRACT, REMOVE ALL SUPPLIES, MATERIALS, AND WASTE CONTAINING HAZARDOUS MATERIAL FROM THE JOB SITE. CONTRACTOR SHALL BEAR FULL FINANCIAL RESPONSIBILITY, AS BETWEEN THE PARTIES OF THIS CONTRACT, FOR THE COMPLIANCE OF CONTRACTOR AND ITS SUBCONTRACTORS WITH THE PROVISIONS OF THIS PARAGRAPH. CONTRACTOR AGREES TO INDEMNIFY, DEFEND, PROTECT AND HOLD THE OWNER HARMLESS FROM AND AGAINST ANY CLAIMS INCLUDING, WITHOUT LIMITATION, ACTUAL ATTORNEY'S FEES AND ANY COSTS OF INVESTIGATION, SOILS TESTING, GOVERNMENTAL APPROVALS, REMEDIATION AND CLEAN-UP ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE FAILURE OF CONTRACTOR OR ITS SUBCONTRACTORS, OR THEIR AGENTS, EMPLOYEES, OFFICERS, OR REPRESENTATIVES, TO COMPLY WITH THE TERMS OF THIS NOTE. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS DISCHARGE, RELEASE OR DISPOSE OF ANY HAZARDOUS MATERIAL ON OR ABOUT THE JOB SITE IN VIOLATION OF THIS PARAGRAPH, CONTRACTOR SHALL IMMEDIATELY SO INFORM OWNER IN WRITING. IN THE EVENT OF ANY SPILL, RELEASE OR ANY OTHER REPORTABLE OCCURRENCE, CONTRACTOR SHALL NOTIFY THE APPROPRIATE GOVERNMENTAL AGENCY AND SHALL TAKE SUCH ACTION AS MAY BE NECESSARY TO MINIMIZE THE DELETERIOUS EFFECT OF SUCH SPILL ON PERSONS OR PROPERTY. IN THE EVENT CONTRACTOR OR ITS SUBCONTRACTORS ENCOUNTER ON THE PREMISES ANY PIPELINE, UNDERGROUND STORAGE TANK OR OTHER CONTAINER, OF ANY KIND, THAT MAY CONTAIN A HAZARDOUS MATERIAL, OR ENCOUNTER MATERIAL REASONABLY BELIEVED TO BE A HAZARDOUS MATERIAL, CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO OWNER IN WRITING. IF CONTRACTOR OR ITS SUBCONTRACTORS DO NOT COMPLY WITH THE REQUIREMENTS OF THIS PARAGRAPH, OWNER MAY, BUT IS NOT OBLIGATED TO, GIVE WRITTEN NOTICE OF VIOLATION TO CONTRACTOR. SHOULD CONTRACTOR OR ITS SUBCONTRACTORS FAIL TO COMPLY WITH THE REQUIREMENTS OF THE PARAGRAPH WITHIN TWENTY-FOUR (24) HOURS FROM THE TIME OWNER ISSUES SUCH WRITTEN NOTICE OF NONCOMPLIANCE OR WITHIN THE TIME OF AN ABATEMENT PERIOD SPECIFIED BY ANY GOVERNMENTAL AGENCY, WHICHEVER PERIOD IS SHORTER, CONTRACTOR SHALL BE IN MATERIAL DEFAULT OF THIS CONTRACT. "HAZARDOUS MATERIAL" MEANS ANY SUBSTANCE: (A) THE PRESENCE OF WHICH REQUIRES INVESTIGATION OR REMEDIATION UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, ORDINANCE, RULE, CODE, ORDER, ACTION, POLICY OR COMMON LAW, OR (B) WHICH IS OR BECOMES DEFINED AS "HAZARDOUS WASTE," "HAZARDOUS SUBSTANCE," POLLUTANT OR CONTAMINANT UNDER ANY PRESENT FEDERAL, STATE OR LOCAL STATUTE, REGULATION, RULE OR ORDINANCE OR AMENDMENTS THERETO INCLUDING, WITHOUT LIMITATION, THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (42 U.S.C. SECTIONS 9601 ET SEQ.) AND/OR THE RESOURCE CONSERVATION AND RECOVERY ACT (42 U.S.C. SECTIONS 6901 ET SEQ.), OR (C) WHICH IS TOXIC, EXPLOSIVE, CORROSIVE, FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC, OR OTHERWISE HAZARDOUS AND IS REGULATED BY ANY GOVERNMENTAL AUTHORITY, AGENCY, DEPARTMENT, COMMISSION, BOARD, AGENCY OR INSTRUMENTALITY OF THE UNITED STATES, THE STATE IN WHICH THE PREMISES ARE LOCATED OR ANY POLITICAL SUBDIVISION THEREOF, OR (D) THE PRESENCE OF WHICH ON THE PREMISES CAUSES OR THREATENS TO CAUSE A NUISANCE UPON THE PREMISES OR TO ADJACENT PROPERTIES OR POSSES OR THREATENS TO POSE A HAZARD TO THE HEALTH OR SAFETY OF PERSONS ON OR ABOUT THE PREMISES, OR (E) WHICH CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, OR (F) WHICH CONTAINS POLYCHLORINATED BIPHENYLS (PCBS), ASBESTOS, LEAD OR UREA FORMALDEHYDE FOAM INSULATION.

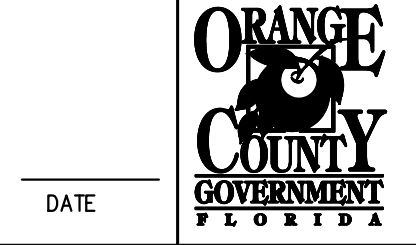
32. ALL STRUCTURE OFFSETS AND DIMENSIONS SHOWN ARE TO THE PROPOSED CENTERLINE OF STRUCTURE UNLESS OTHERWISE NOTED.
33. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A SEDIMENT AND EROSION CONTROL PLAN TO MINIMIZE EROSION AND INSURE FUNCTIONING OF STORMWATER MANAGEMENT SYSTEM UPON COMPLETION OF CONSTRUCTION.
34. USE OF TEMPORARY EROSION CONTROL FEATURES WILL BE AUTHORIZED TO CORRECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT FORESEEN AT THE TIME OF DESIGN OR TO PROVIDE IMMEDIATE TEMPORARY CONTROL OF EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION OPERATIONS. TEMPORARY EROSION AND WATER POLLUTION CONTROL FEATURES SHALL CONSIST OF BUT NOT TO BE LIMITED TO, TEMPORARY GRASSING, TEMPORARY SODDING, TEMPORARY MULCHING, SANDBAGGING, SLOPE DRAINS, SEDIMENT BASINS, SEDIMENT CHECKS BERMS, WATTLES, FLOATING TURBIDITY BARRIER, STAKED TURBIDITY BARRIER AND SILT FENCE.
35. THE CONTRACTOR SHALL, AT HIS EXPENSE, PROVIDE ROUTINE MAINTENANCE ON TEMPORARY EROSION AND SEDIMENT CONTROL FEATURES UNTIL THE PROJECT IS COMPLETED AND ACCEPTED.
36. EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN RIVERS, STREAMS, CANALS OR IMPROVEMENTS, OR IN A POSITION CLOSE ENOUGH THERETO, TO BE WASHED AWAY BY HIGH WATER OR RUNOFF. STOCKPILED MATERIAL MUST BE TEMPORARILY STABILIZED AND CONTAINED WITH ADEQUATE PERIMETER CONTROLS.
37. THE CONTRACTOR SHALL PROVIDE CLEARING AND GRUBBING WITHIN THE LIMITS SPECIFIED TO THE EXTENT REQUIRED TO CONSTRUCT THE IMPROVEMENTS.
38. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY ACCESS ON BOTH SIDES OF THE RIVER TO PREVENT SOIL TRACKING ONTO NEIGHBORING ROADS. THE CONTRACTOR SHALL PROTECT EXISTING SIDEWALK OR REPLACED DAMAGED SIDEWALK AT THE END OF CONSTRUCTION WHEN TEMPORARY CONSTRUCTION ACCESS IS REMOVED.
39. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLOW OF WATER IN THE RIVER AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. AT NO TIME IS THE CONTRACTOR ALLOWED TO BLOCK THE FLOW OF WATER IN THE RIVER.
40. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE NPDES NOI TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR CLEARING RELATED TO CONSTRUCTION ACTIVITIES.

NO.	DATE	REVISION
1	07/06/2017	60% ISSUE FOR CLIENT REVIEW
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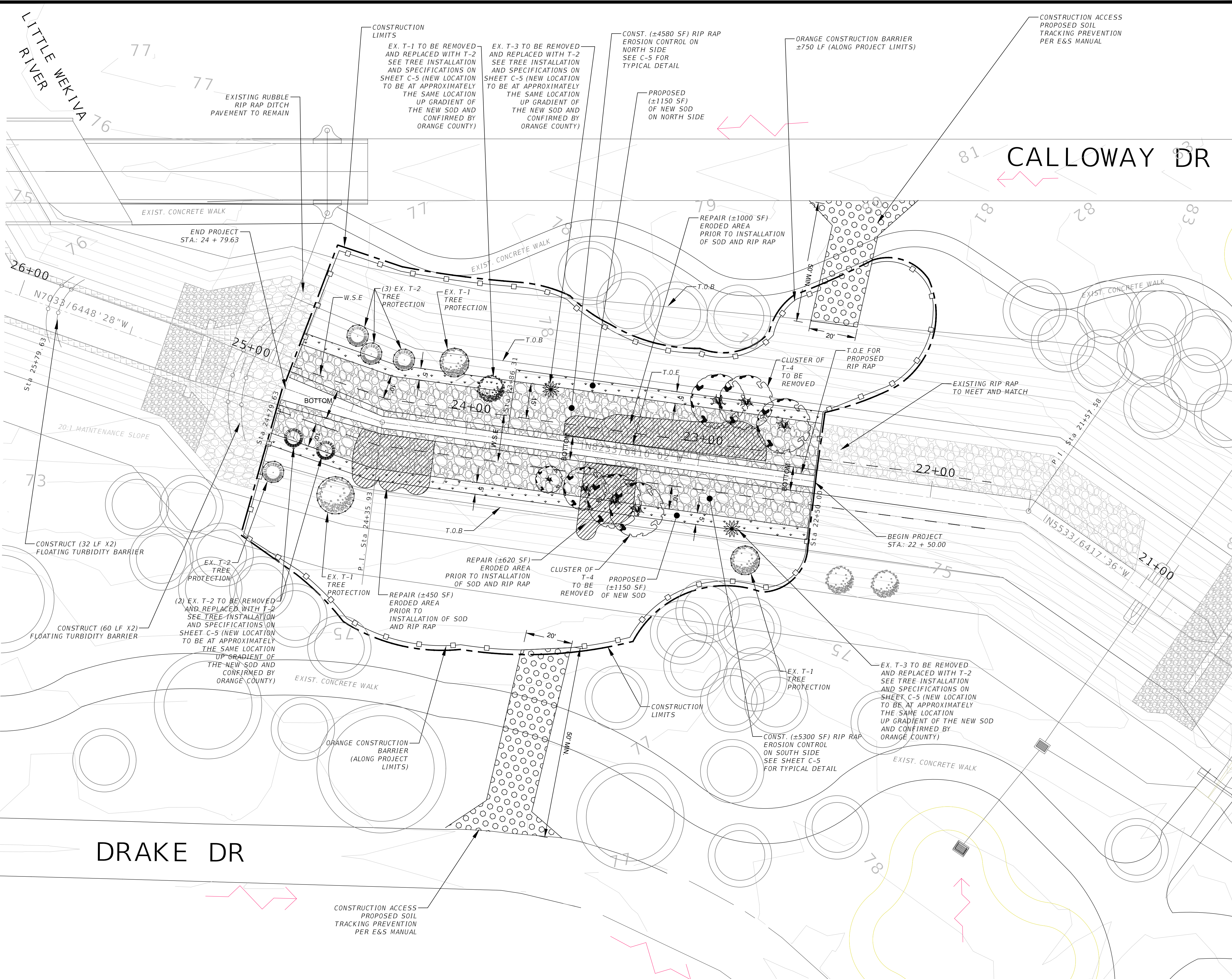
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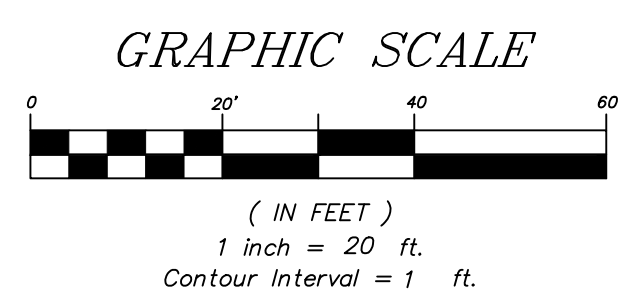
DRAWN BY:	DATE:
YB	08/17/2017
DESIGNED BY:	SCALE:
YB	N/S
CHECKED BY:	JOB NO.:
JE	170078

GENERAL NOTES	SHEET NUMBER
	C-3
	3 OF 6



SITE PLAN LEGEND	
PROPOSED	
SYMBOL	DESCRIPTION
	RIP RAP
	FILL
	NEW SOD
	SOIL TRACKING PREVENTION
	TEMPORARY FLOATING TURBIDITY BARRIER
	ORANGE CONSTRUCTION FENCE
W.S.E. ---	WATER SURFACE ELEVATION
T.O.B. ---	TOP OF BANK
T.O.E. ---	TOE OF SLOPE
	RUNOFF FLOW
	CONSTRUCTION LIMITS
	TREE PROTECTION FENCE
	EXISTING TREES SHOWN FOR REFERENCE ONLY (THEY ARE LOCATED OUTSIDE OF CONSTRUCTION LIMITS)
	T-1 EXISTING OAK
	T-2 EXISTING BALD CYPRESS
	T-3 EXISTING RED MAPLE
	T-4 EXISTING WAX MYRTLES

NOTE: ALL TREES SHOWN IN GRAY SCALE ARE TO REMAIN, IF LOCATED INSIDE THE CONSTRUCTION LIMITS, TREES SHALL BE PROTECTED.



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2	08/17/2017	100% SUBMITTAL

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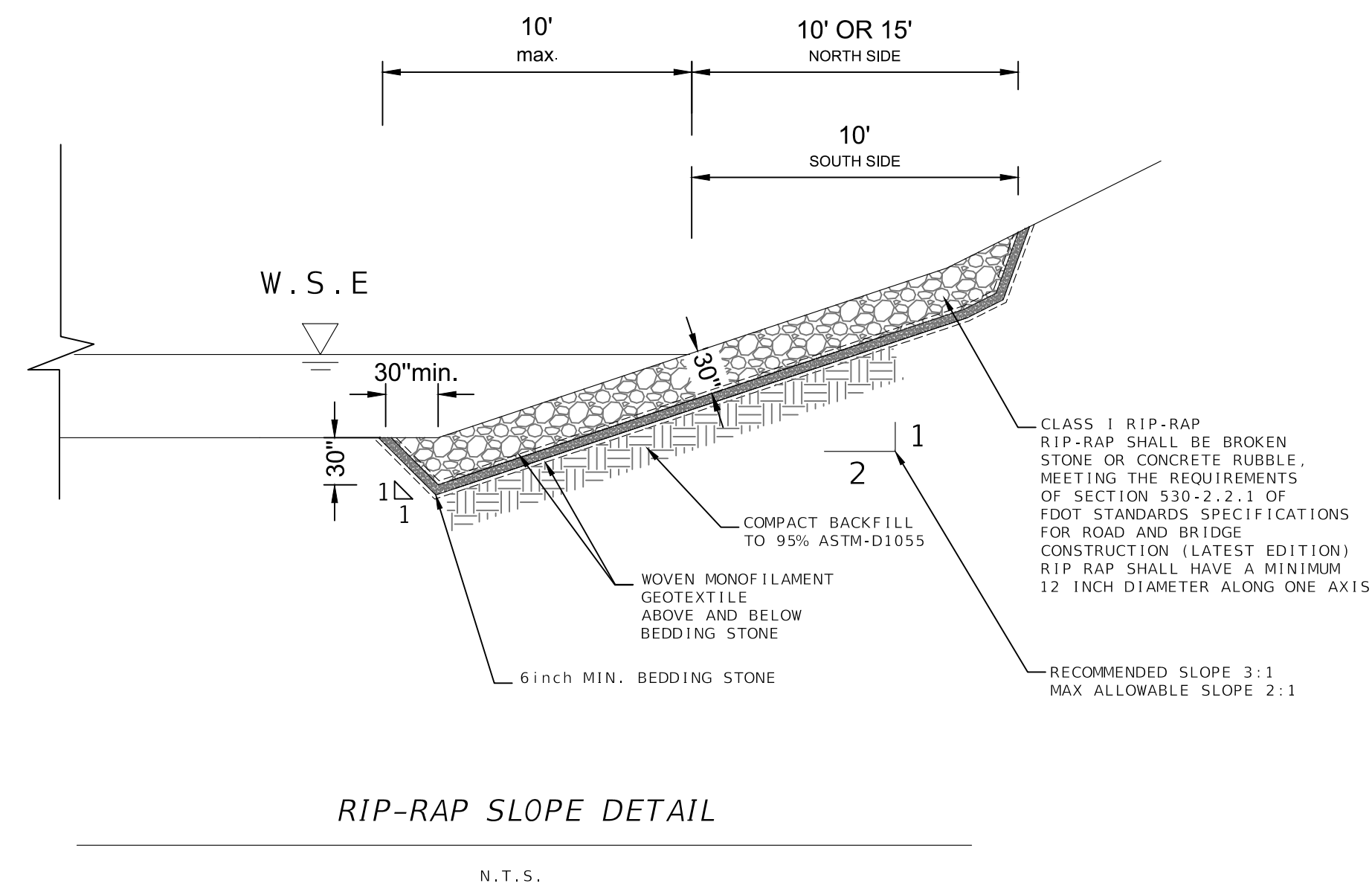


PARKS-RIVERSIDE ACRES
EROSION REPAIR

DRAWN BY:	YB	DATE:	08/17/2017
DESIGNED BY:	YB	SCALE:	1"=20'
CHECKED BY:	JE	JOB NO.:	170078

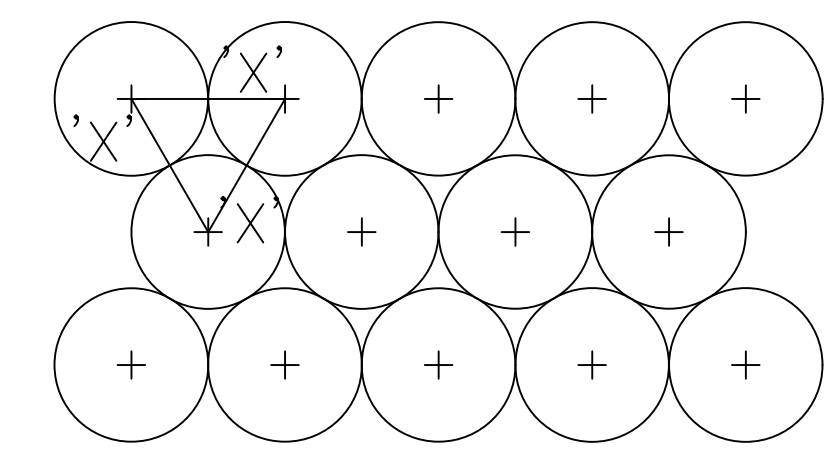
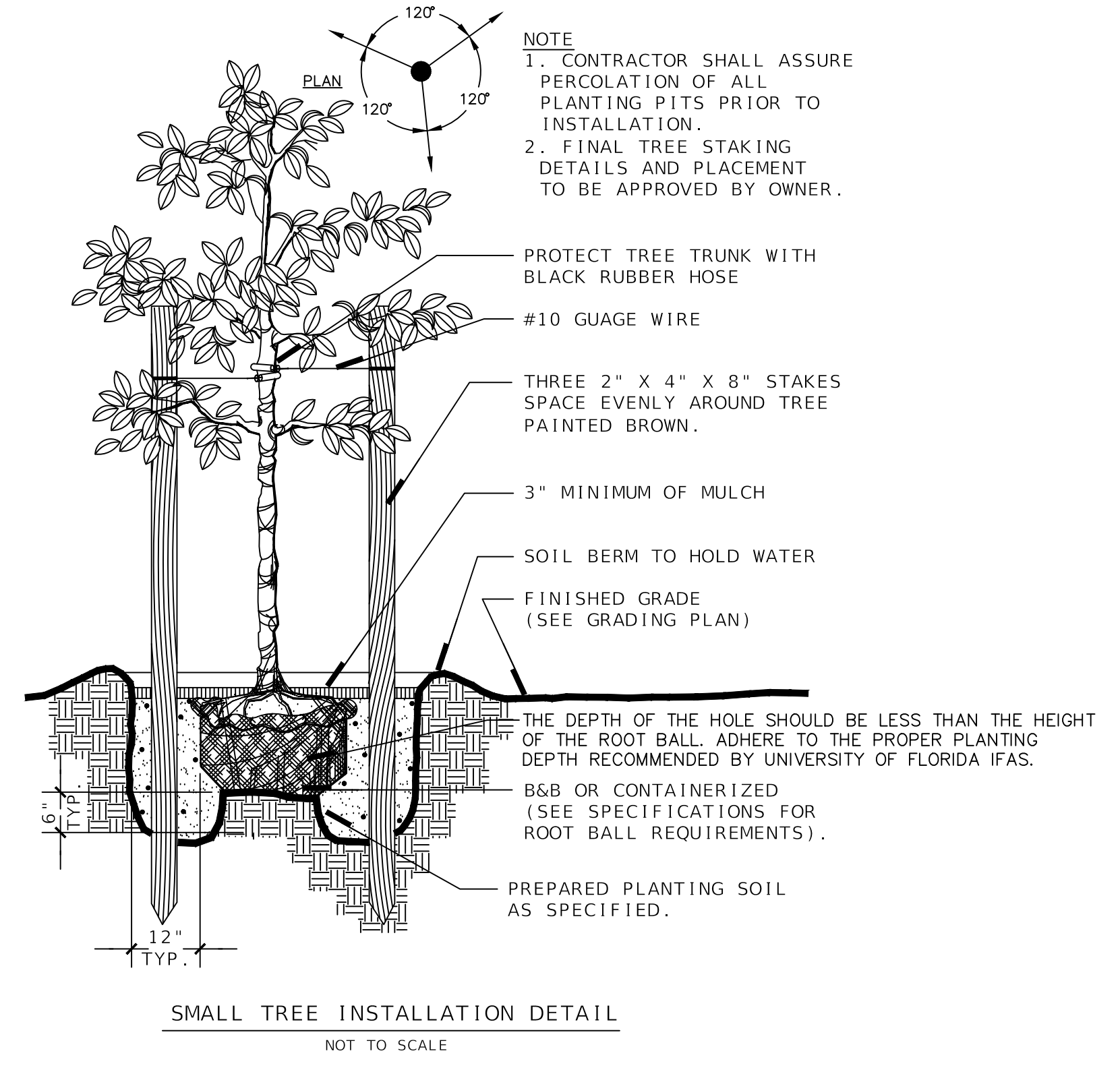
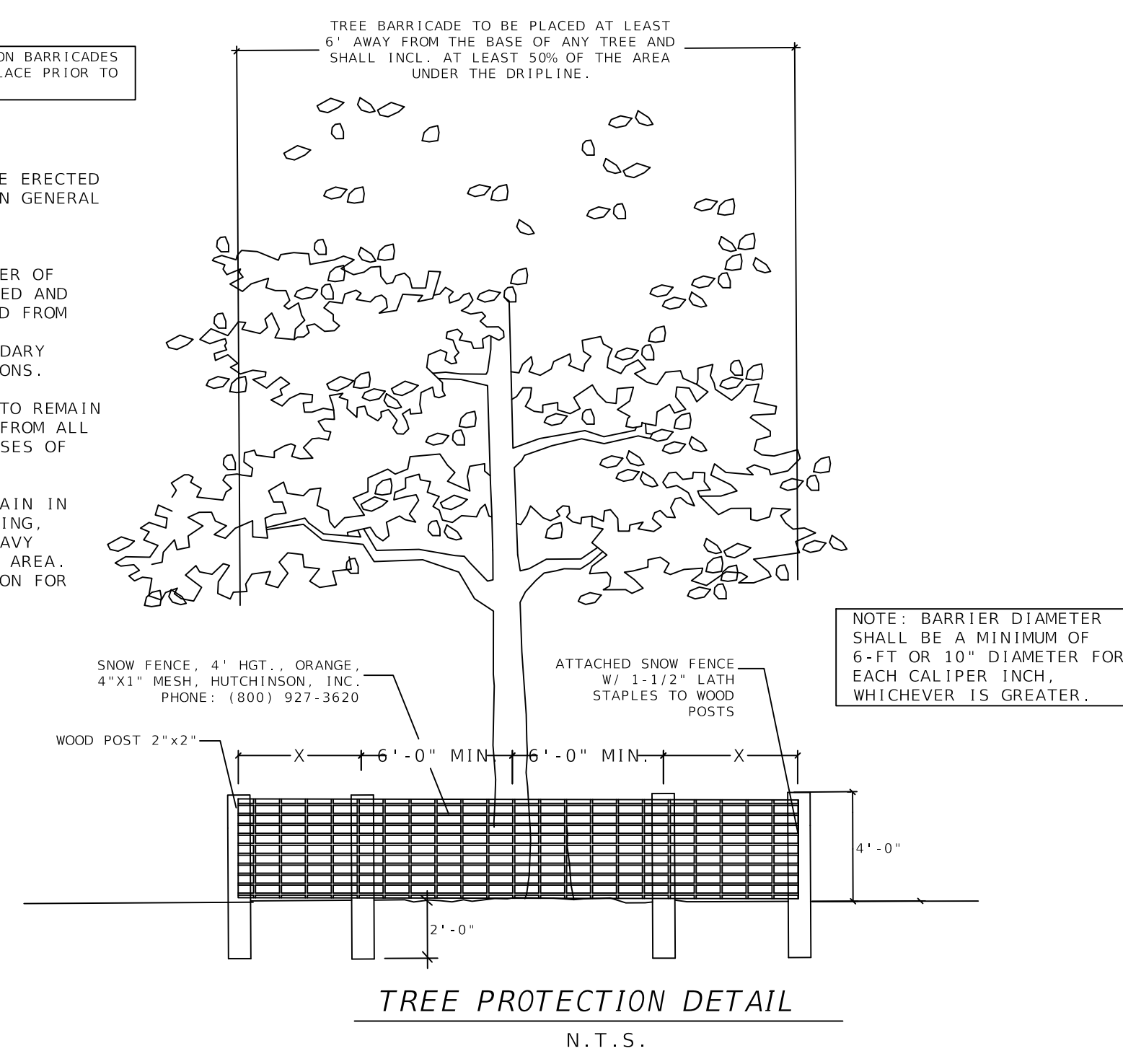
EROSION RESTORATION
STABILIZATION PLAN

SHEET NUMBER
C-4
4 OF 6



TREE PROTECTION BARRICADES SHALL BE IN PLACE PRIOR TO CONSTRUCTION.

- NOTES:**
- BARRIER SHALL BE ERECTED PRIOR TO ANY WORK IN GENERAL AREA OF TREES TO BE PROTECTED.
 - TREES AND CLUSTER OF TREES SHALL BE MARKED AND PHYSICALLY PROTECTED FROM PARKING, STORAGE OF MATERIALS AND SECONDARY UTILITY LINE LOCATIONS.
 - EXISTING TREES TO REMAIN SHALL BE PROTECTED FROM ALL CONSTRUCTION PROCESSES OF THE DEVELOPMENT.
 - BARRIERS TO REMAIN IN PLACE UNTIL ALL PAVING, CONSTRUCTION AND HEAVY EQUIPMENT IS OUT OF AREA. REMOVE AS PREPARATION FOR SOD INSTALLATION.



TREE SPECIFICATIONS AND IRRIGATION PLAN		
QUANTITY	NURSERY STOCK DETAILS	SCHEDULE
5 trees #1 grade BALD Cypress (Taxodium Distichum)	65 gallon 3 inch caliper min. 14' in height bag & burlap roots + grower	Water period is a maximum of 8 weeks. Water every days for the first 2 weeks; water 4 days per week during second 2 weeks; water 3 days per week during the third 2 weeks and 2 days per weeks during the last 2 weeks.

Notes :

- At each irrigation, apply 1-2 gallons (cool climates) or 2-3 gallons (warmest climates) per inch trunk caliper to the root ball. Apply it in a manner so all water soaks into the root ball. Do not water if root ball is wet/saturated on the irrigation day.
- Contractor shall submit photos of all typical tree planting and specifications with scale reference in photograph for county approval prior to planting. Photo to be 8" x 10" size.

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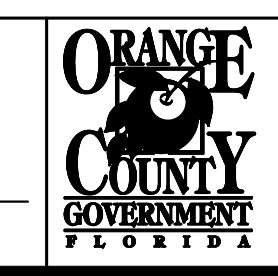
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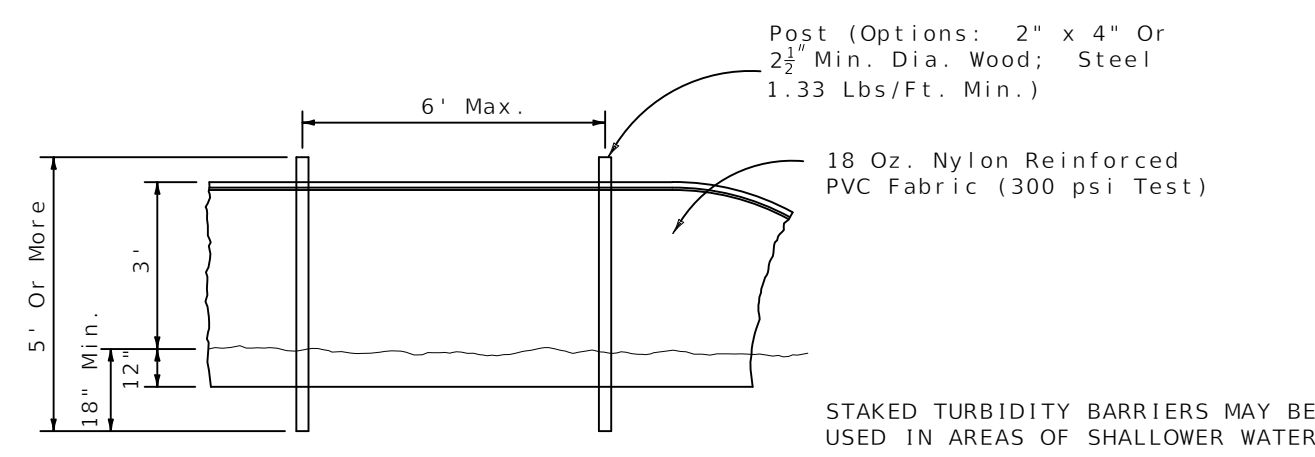


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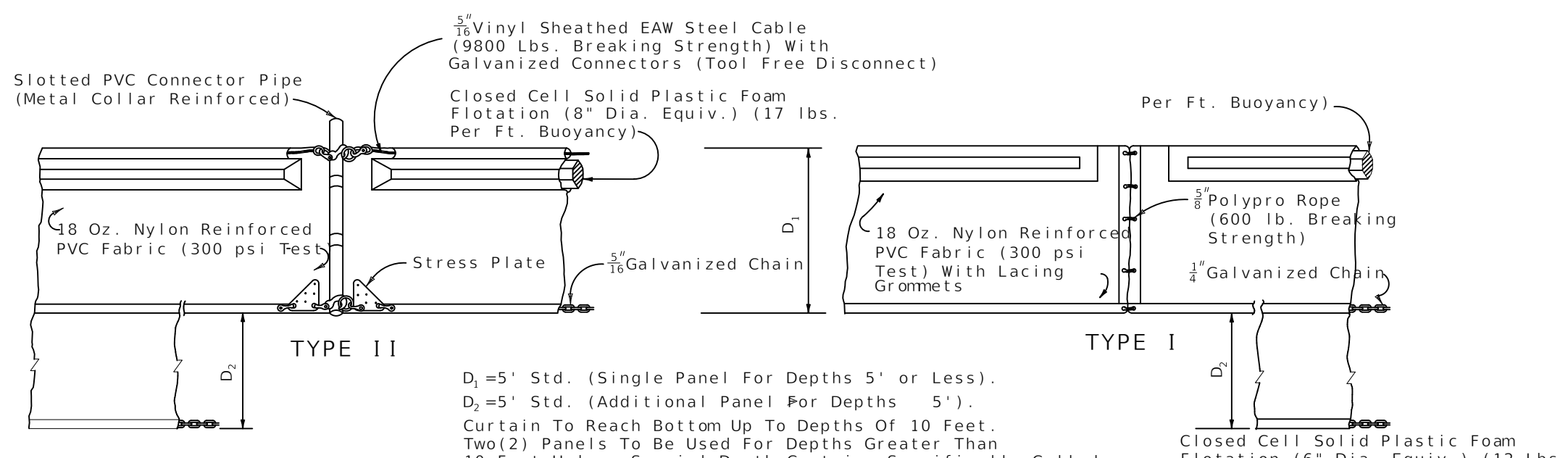
TYPICAL DETAILS

SHEET NUMBER	C-5
5 OF 6	



STAKED TURBIDITY BARRIER
N.T.S.

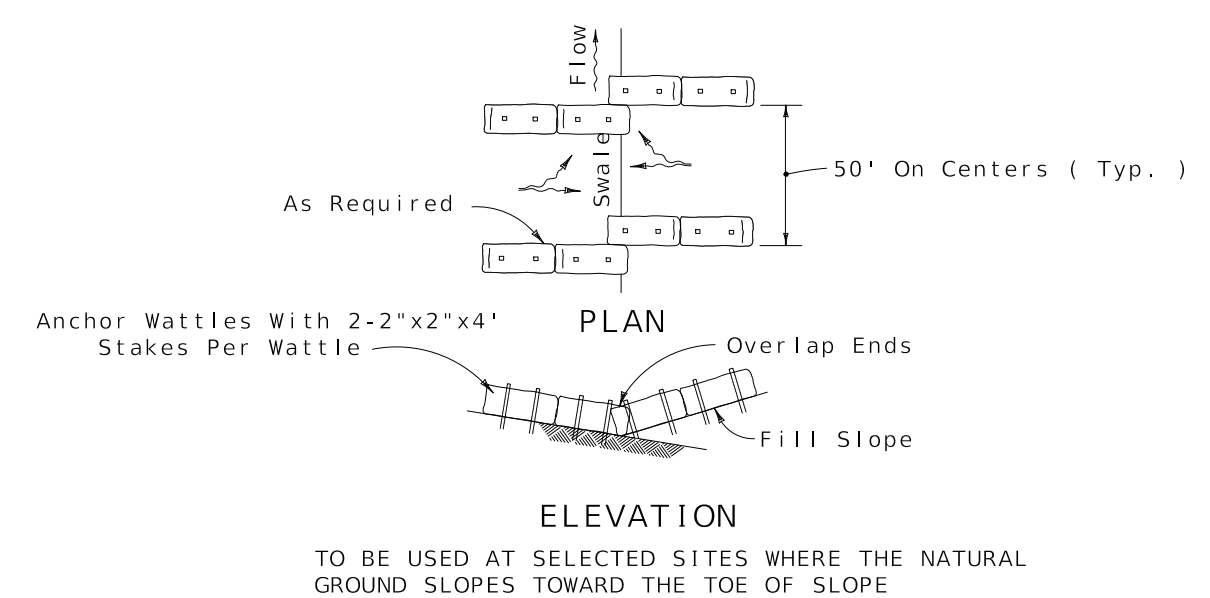
STAKED TURBIDITY BARRIERS MAY BE USED IN AREAS OF SHALLOWER WATER



NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIER
N.T.S.

TURBIDITY BARRIERS (FDOT INDEX NO. 103)

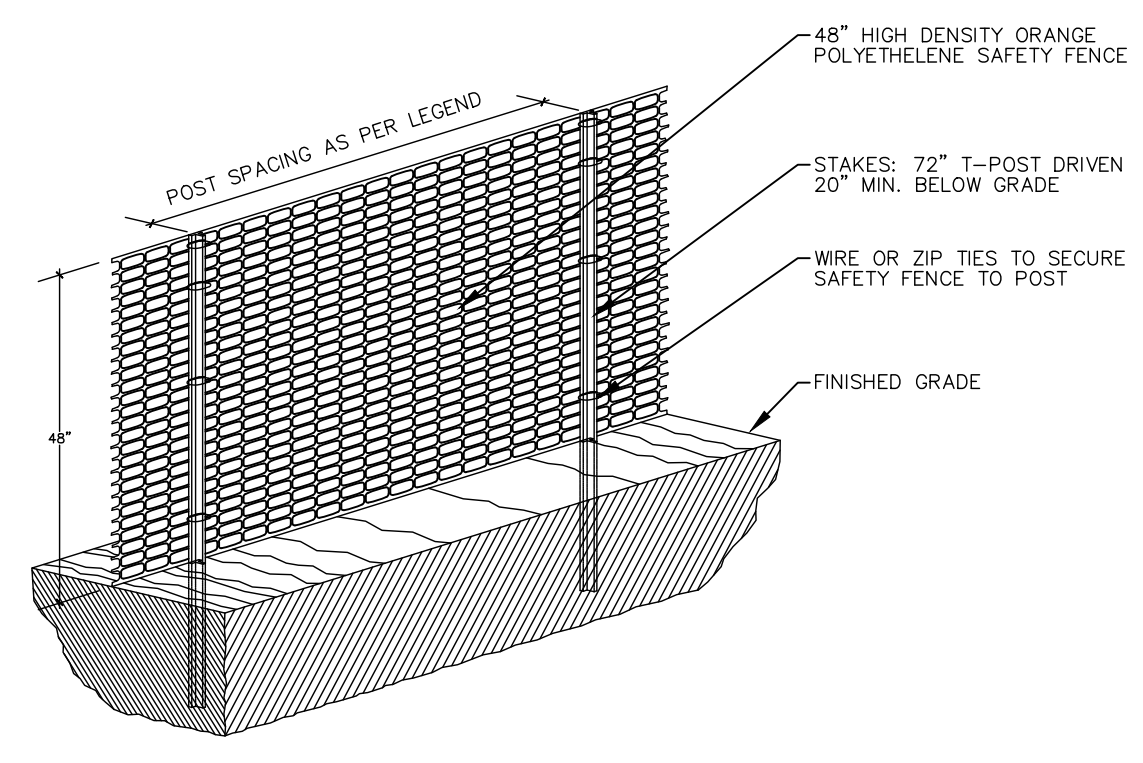


BARRIERS FOR FILL SLOPES

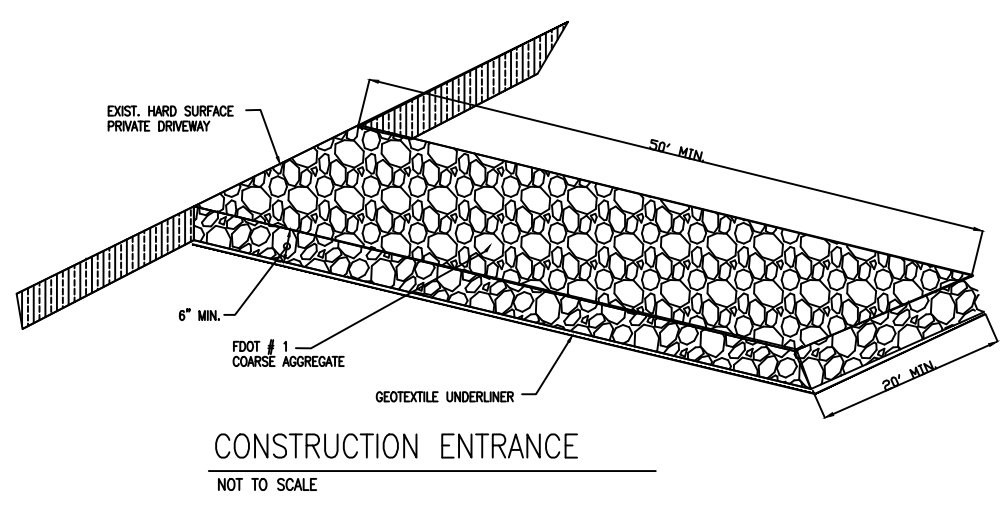
48" Safety Fence, 72" T-Posts

LEGEND

SAF12	48" ORANGE FENCE, 12 FEET O.C.
SAF11	48" ORANGE FENCE, 11 FEET O.C.
SAF10	48" ORANGE FENCE, 10 FEET O.C.
SAF9	48" ORANGE FENCE, 9 FEET O.C.
SAF8	48" ORANGE FENCE, 8 FEET O.C.
SAF7	48" ORANGE FENCE, 7 FEET O.C.
SAF6	48" ORANGE FENCE, 6 FEET O.C.



1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
2. ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.
3. WHEN PRACTICABLE, INSTALL HIGH VISIBILITY 3 FEET OUTSIDE OF THE DRIP LINE OF THE TREE.
4. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
5. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.



CONSTRUCTION ENTRANCE
NOT TO SCALE

1. TEMPORARY EROSION CONTROL PLAN

A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PREPARED AND IMPLEMENTED ON SITE BY THE CONTRACTOR. CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT THAT ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTICIPATED CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF CHECK WEIRS, SEDIMENT BASINS, SLOPE DRAINS, GRACING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. CONTRACTOR SHALL PROVIDE WATTLES, SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS PLAN.

THE CONTRACTOR SHALL PREPARE AN SWPPP DOCUMENT IN ACCORDANCE WITH THE NPDES REQUIREMENTS OUTLINED BY THE US ENVIRONMENTAL PROTECTION AGENCY AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, INCLUDING, BUT NOT LIMITED TO, PRIOR TO THE START OF LAND DISTURBING ACTIVITIES, WHICH INCLUDES DEMOLITION, EARTHWORK AND/OR CONSTRUCTION, THE DEVELOPER/CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND SUBMIT TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) A NOTICE OF INTENT (NOI) TO OBTAIN COVERAGE UNDER THE NPDES GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (CGP) PURSUANT TO THE REQUIREMENTS OF 62-621.300(4)(A) F.A.C. A COPY OF THE NOI SHALL BE SUBMITTED TO THE OPERATOR(S) OF THE MS4. COPIES OF THE SWPPP NOI, AND FDEP ACKNOWLEDGEMENT LETTER ARE TO BE KEPT ON THE PROJECT SITE AND MADE AVAILABLE UPON REQUEST. UPON COMPLETION OF ALL LAND DISTURBING ACTIVITIES AND AFTER FINAL STABILIZATION OF THE SITE IS COMPLETE, THE DEVELOPER/CONTRACTOR SHALL SUBMIT TO FDEP A NOTICE OF TERMINATION (NOT) TO END THEIR COVERAGE UNDER THE CGP AND PROVIDE A COPY OF THE NOT TO THE OPERATOR(S) OF THE MS4.

DISCHARGE OF GROUNDWATER FROM DEWATERING OPERATIONS REQUIRES APPROVAL FROM FDEP AND THE APPLICABLE WATER MANAGEMENT DISTRICT. IF REQUIRED, THE DEVELOPER/CONTRACTOR SHALL OBTAIN AND FDEP GENERIC PERMIT FOR THE DISCHARGE OF GROUND WATER FROM DEWATERING OPERATIONS PURSUANT TO THE REQUIREMENTS OF 62-621.300(2)(a) AND 62-620 F.A.C. AND FLORIDA STATUTES CHAPTER 403. PLEASE NOTE THAT FDEP HAS UPDATED THEIR PERMIT FOR DEWATERING DISCHARGES AS WELL AS THE CONSTRUCTION GENERIC PERMIT. PLEASE REFER TO THE DEWATERING REQUIREMENTS IN 62-621.300(4)a CONSTRUCTION GENERIC PERMIT OR 62-621.300(2)a DEWATERING GENERIC PERMIT AS APPLICABLE. APPROPRIATE BMPs MUST BE IMPLEMENTED TO ENSURE THAT DISCHARGES DO NOT EXCEED SURFACE WATER QUALITY STANDARDS PER THE CGP. IF DEWATERING OFF SITE OR INTO THE COUNTY MS4, TURBIDITY MUST BE MONITORED TO ENSURE THAT DISCHARGES DO NOT EXCEED 29 NTU OVER BACKGROUND PER 62-302.530 FAC.

THE CONTRACTOR SHALL PROVIDE MONITORING OF EROSION AND SEDIMENT CONTROLS AND SHALL DOCUMENT ALL CORRECTIVE MEASURES TAKEN.

THE APPROVED SWPPP SHALL BE EXECUTED BY THE CONTRACTOR AND THE DOCUMENT SHALL BE KEPT ON SITE AT ALL TIMES FOR REVIEW BY THE OWNER'S REPRESENTATIVE AND BY NPDES INSPECTORS.

2. STOCKPILING MATERIAL

NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY. STOCKPILED MATERIAL MUST BE TEMPORARILY STABILIZED AND CONTAINED WITH ADEQUATE PERIMETER CONTROLS.

3. EXPOSED AREA LIMITATION

THE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING SHALL NOT EXCEED 40 ACRES SO LONG AS THIS OPERATION WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.

4. INLET PROTECTION

INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.

5. TEMPORARY SEEDING

AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN SEVEN DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED, AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 LBS. PER ACRE.

6. TEMPORARY GRASSING

THE SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.

7. TEMPORARY REGRASSING

IF AFTER FOURTEEN DAYS, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATION COVER.

8. TURBIDITY MONITORING PLAN

THE CONTRACTOR SHALL TAKE TURBIDITY METER READINGS DAILY AT BOTH THE UPSTREAM AND DOWNSTREAM PORTION OF THE PROJECT. IF THESE READINGS ARE EQUAL TO OR ABOVE 29 NTU THEN THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL EROSION CONTROL ACTIVITIES. AND NOTIFY ORANGE COUNTY PROJECT MANAGER WITHIN 24 HOURS OF THE READING ABOVE 29 NTU. THE LOG OF THESE READINGS SHALL BE KEPT ON SITE WITH THE SWPPP PERMIT FOR INFORMATIONAL PURPOSES.

9. MAINTENANCE

ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.

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TYPICAL EROSION DETAILS
C-6
6 OF 6