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Please Email ALL Questions:
[MailTo:ContractAdministration@TampaGov.net](mailto:ContractAdministration@TampaGov.net)

Please Let Us Know If You Plan To Bid

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456

TAMPA RIVERWALK DOYLE CARLTON SEGMENT

350 LAUREL ST.
TAMPA, FL 33602

FINAL BIDDING DOCUMENTS
11/05/2014

PREPARED FOR:

CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

CIVIL ENGINEER:
DENNIS W. SYRJA, P.E.
LICENSE NO.: 43423

LANDSCAPE ARCHITECT:
SHIRLEY PEARSALL, RLA
LICENSE NO.: 607

STRUCTURAL ENGINEER:
EVAN BIRK, P.E.
LICENSE NO.: 74988

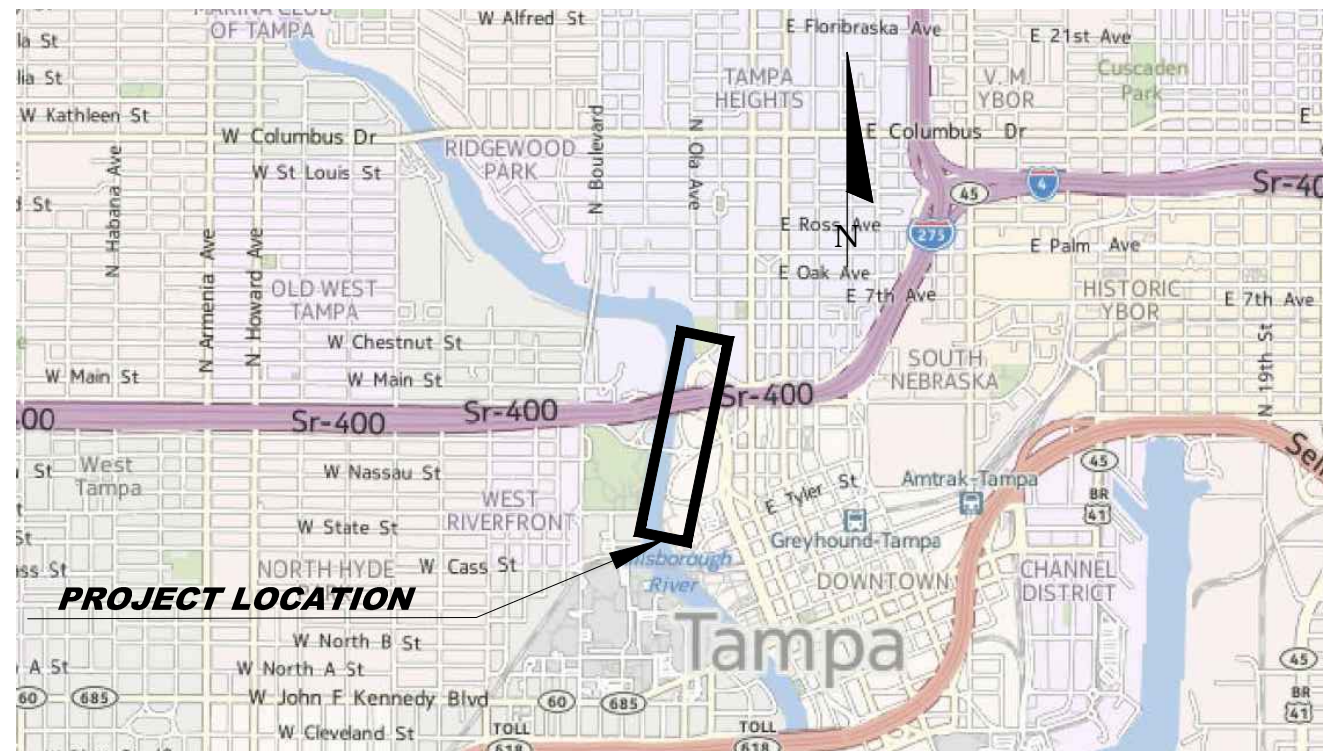
GEORGE PAPADOPOULOS, P.E.
LICENSE NO.: 55843

ELECTRICAL ENGINEER:
SHAHZAD AHMED
LICENSE NO.: 68863

ARCHITECT:
WILLIAM H. S. MURRAY
LICENSE NO.: 0014993

FEDERAL GRANT #
DTFH61-13-G-00001

FDOT PROJECT ID
430752-1



PLANS PREPARED BY:

URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
No. 00000002, NO. 000234



NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

SHEET NO.

G001

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\G001-INDEX OF DRAWINGS.dwg Last Modified: Sep 02, 2014 - 8:55am Plotted on: Sep 04, 2014 - 7:54am by rick_myers

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NO.	BY	DATE	DESCRIPTION



TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

INDEX OF DRAWINGS

DENNIS W. SYRJIA, PE
Registered Professional
43423
FL Reg No. Sign Date

G002

print date

GENERAL CONSTRUCTION NOTES

- A. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROPOSED IMPROVEMENTS, THE ENGINEER, LANDSCAPE ARCHITECT, AND THE ARCHITECT. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE ANY NECESSARY INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DEWATERING PLAN APPROVED BY THE WATER MANAGEMENT DISTRICT, IF APPLICABLE.
- B. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO IN THESE PLANS SHALL BE OF THE CURRENT REVISION.
- C. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH CITY OF TAMPA TECHNICAL SPECIFICATIONS AND FDOT SPECIFICATIONS CURRENT EDITION.
- D. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRE-CAST AND MANUFACTURED ITEMS TO THE OWNER'S ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE FABRICATION AND/OR INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
- E. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES (INCLUDING, BUT NOT LIMITED TO LIGHTING, POWER, TELEPHONE, CABLE, GAS, ETC...).
- F. THE WATER, SANITARY SEWER, AND STORM DRAINAGE FACILITIES ARE SUBJECT TO THE REVIEW AND APPROVAL OF APPLICABLE AGENCIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE REQUIRED PERMITS TO PERFORM WORK IN THE PUBLIC RIGHT-OF-WAY.
- G. IT WILL BE NECESSARY TO EXAMINE, COORDINATE AND ADJUST ACCORDINGLY THE PROPOSED LOCATIONS OF THE VARIOUS COMPONENTS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT COORDINATION DRAWINGS SHOWING PIPE SIZES, STRUCTURES, AND ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SCHEDULING AND COORDINATION OF THE UNDERGROUND WORK ASSOCIATED WITH THIS PROJECT.
- H. ALL MECHANICAL EQUIPMENT SHALL BE SCREENED FROM VIEW, WHEN POSSIBLE.
- I. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY ENVIRONMENTAL PROTECTION AGENCY PERMITTING WHERE REQUIRED. THIS INCLUDES FILING A NPDES NOTICE OF INTENT.
- J. TOPOGRAPHIC SURVEY PREPARED BY ECHEZABEL & ASSOCIATES IS INCLUDED WITHIN THE CONSTRUCTION BID SET. CONTRACTOR SHALL VERIFY THE SURVEY DATUM USED FOR THE DESIGN OF THE PROJECT. THE SAME DATUM SHALL BE USED FOR CONSTRUCTION.
- K. A GEOTECHNICAL REPORT HAS BEEN PREPARED BY TERRA, INC. TO INVESTIGATE SUBSURFACE SOIL CONDITIONS AND IS MADE PART OF THESE DOCUMENTS BY REFERENCE.
- L. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT.
- M. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED OR INSPECTED PRIOR TO BASE AND PAVEMENT CONSTRUCTION.
- N. FORTY-EIGHT (48) HOUR NOTICE IS REQUIRED TO THE ENGINEER PRIOR TO SITE INSPECTIONS AND/OR WITNESSING OF STORM, WATER, AND SEWER TESTING.
- O. THE CITY OF TAMPA CONSTRUCTION ADMINISTRATION CONSTRUCTION DIVISION WILL SCHEDULE AND COORDINATE A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR AND AGENCIES HAVING JURISDICTION.
- P. CONSTRUCTION SHALL ADHERE TO APPLICABLE AGENCY CRITERIA, PERMIT CONDITIONS, AS WELL AS SPECIFICATIONS PROVIDED BY OWNER.
- Q. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OWNER CONCERNING LIMITS OF CONSTRUCTION, TRANSITIONS, ETC. WHICH MAY NOT BE SHOWN ON THESE PLANS.
- R. CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE OWNER OR ENGINEER IMMEDIATELY FOR RESOLUTION.

SAFETY NOTES

- A. DURING THE CONSTRUCTION AND MAINTENANCE OF THIS PROJECT, ALL OSHA SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL.
- B. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLAN MUST BE SUBMITTED AND APPROVED BY APPLICABLE AGENCIES AND ENGINEER PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.
- C. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION AND CONSTRUCTION WORK PER STANDARD 1910.12.
- D. CONTRACTOR SHALL PROVIDE AND MAINTAIN ITS OWN SAFETY EQUIPMENT IN ACCORDANCE WITH ITS HEALTH & SAFETY PROGRAM AND ALL OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING ITS EMPLOYEES AND SUB CONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES AND SUB CONTRACTORS AND SUB CONTRACTOR'S EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH REGULATIONS AS WELL AS THE ENVIRONMENTAL PROTECTION LAWS. THE FOLLOWING IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST BASIC REQUIREMENTS.
- E. ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AND REGULATIONS AND FLORIDA TRENCH SAFETY ACT. PARTICULAR ATTENTION MUST BE PAID TO THE CONSTRUCTION STANDARDS FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P.

SAFETY NOTES (cont.)

- F. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS.
- G. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
- H. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
- I. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES. CALL SUNSHINE STATE ONE CALL AT 800-432-4770.

PROJECT SPECIFIC NOTES

- 1. THE CONTRACTOR IS TO COORDINATE HIS WORK AND SITE ACCESS WITH THE OTHER ENTITIES THAT MAY BE WORKING ON SITE. ANY CONFLICTS ON COORDINATION ISSUES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR ENGINEER FOR MUTUAL RESOLUTION.
- 2. FORTY-EIGHT (48) HOUR NOTICE IS REQUIRED BY THE ENGINEER PRIOR TO SITE INSPECTIONS AND/OR WITNESSING OF WATER AND/OR SEWER TESTING.
- 3. ALL EXISTING TREES TO REMAIN SHALL BE BARRICADED PROTECTED FROM DAMAGE BY EQUIPMENT AND/OR PERSONNEL.
- 4. THE PROPOSED PROJECT WILL NOT ADVERSELY AFFECT SIGNIFICANT HISTORICAL OR ARCHEOLOGICAL RESOURCES UNDER THE PROVISIONS OF SECTION 267.061, F.S. IF EVIDENCE OF THE EXISTENCE OF HISTORIC OR ARCHEOLOGICAL RESOURCES IS DISCOVERED OR OBSERVED AT DEVELOPMENT SITES OR DURING DEVELOPMENT ACTIVITIES AFTER FINAL APPROVAL, ALL WORK SHALL CEASE IN THE AREA OF EFFECT AS DETERMINED BY THE DIRECTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER IMMEDIATELY, AND THE DEPARTMENT OF HISTORICAL RESOURCES WITHIN TWO WORKING DAYS. EXAMPLES OF EVIDENCE OF HISTORIC RESOURCES INCLUDE WHOLE OR FRAGMENTARY STONE TOOLS, SHELL TOOLS, ABORIGINAL OR HISTORIC POTTERY, HISTORIC GLASS, HISTORIC BOTTLES, BONE TOOLS, HISTORIC BUILDING FOUNDATIONS, SHELL MOUNDS, SHELL MIDDENS, OR SAND MOUNDS; THE DIRECTOR SHALL ASSESS THE SIGNIFICANCE OF THE FINDS AND MITIGATE ANY ADVERSE EFFECTS AS SOON AS POSSIBLE, BUT NO LATER THAN THREE WORKING DAYS OF NOTIFICATION.
- 5. CONTRACTOR SHALL REFER TO MOFFAT & NICHOL "SEAWALL REPAIR PLANS" DATED AUGUST 2014, FOR PILE CAP RECONSTRUCTION DETAILS AND SPECIFICATIONS.
- 6. CONTRACTOR MUST EMPLOY A LICENSED LAND SURVEYOR TO STAKE OUT THE PROPOSED IMPROVEMENTS. AN AUTOCAD FILE WILL BE PROVIDED TO THE SURVEYOR.
- 7. COORDINATION WITH COAST GUARD SECTOR, ST. PETERSBURG IS REQUIRED BEFORE THE PLACEMENT OF BARGES OR RIGGING OF EQUIPMENT IN NAVIGABLE WATERS OF THE UNITED STATES. THE USCG CONTACT IS LIEUTENANT BRETT SILLMAN AT THE SECTOR. HE MAY BE REACHED BY PHONE AT (813) 228-2191, EXT 8146 OR BY EMAIL AT BRETT.S.SILLMAN@USCG.MIL. ALSO COPY MICHAEL LIEBERUM OF THIS OFFICE. HE MAY BE REACHED AT (305) 415-6744 OR BY EMAIL AT MICHAEL.B.LIEBERUM@USCG.MIL.
- 8. SOURCE OF SUPPLY - STEEL (FEDERAL-AID CONTRACTS ONLY): FOR FEDERAL-AID CONTRACTS, ONLY USE STEEL AND IRON PRODUCED IN THE UNITED STATES, IN ACCORDANCE WITH THE BUY AMERICA PROVISIONS OF 23 CFR 635.410, AS AMENDED. ENSURE THAT ALL MANUFACTURING PROCESSES FOR THIS MATERIAL OCCUR IN THE UNITED STATES. AS USED IN THIS SPECIFICATION, A MANUFACTURING PROCESS IS ANY PROCESS THAT MODIFIES THE CHEMICAL CONTENT, PHYSICAL SHAPE OR SIZE, OR FINAL FINISH OF A PRODUCT, BEGINNING WITH THE INITIAL MELTING AND MIXING AND CONTINUING THROUGH THE BENDING AND COATING STAGES. A MANUFACTURED STEEL OR IRON PRODUCT IS COMPLETE ONLY WHEN ALL GRINDING, DRILLING, WELDING, FINISHING AND COATING HAVE BEEN COMPLETED. IF A DOMESTIC PRODUCT IS TAKEN OUTSIDE THE UNITED STATES FOR ANY PROCESS, IT BECOMES FOREIGN SOURCE MATERIAL. WHEN USING STEEL AND IRON AS A COMPONENT OF ANY MANUFACTURED PRODUCT INCORPORATED INTO THE PROJECT (E.G. CONCRETE PIPE, PRESTRESSED BEAMS, CORRUGATED STEEL PIPE, ETC.), THESE SAME PROVISIONS APPLY, EXCEPT THAT THE MANUFACTURER MAY USE MINIMAL QUANTITIES OF FOREIGN STEEL AND IRON WHEN THE COST OF SUCH FOREIGN MATERIALS DOES NOT EXCEED 0.1% OF THE TOTAL CONTRACT AMOUNT OR \$2,500, WHICHEVER GREATER. THESE REQUIREMENTS ARE APPLICABLE TO ALL STEEL AND IRON MATERIALS INCORPORATED INTO THE FINISHED WORK, BUT ARE NOT APPLICABLE TO STEEL AND IRON ITEMS THAT THE CONTRACTOR USES BUT DOES NOT INCORPORATE INTO THE FINISHED WORK. PROVIDE A CERTIFICATION FROM THE PRODUCER OF STEEL OR IRON, OR ANY PRODUCT CONTAINING STEEL OR IRON AS A COMPONENT, STATING THAT ALL STEEL OR IRON FURNISHED PRODUCT WAS MANUFACTURED IN THE UNITED STATES IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION AND THE BUY AMERICA PROVISIONS OF 23 CFR 635.410, AS AMENDED. SUCH CERTIFICATION SHALL ALSO INCLUDE (1) A STATEMENT THAT THE PRODUCT WAS PRODUCED ENTIRELY WITHIN THE UNITED STATES, OR (2) A STATEMENT THAT THE PRODUCT WAS PRODUCED WITHIN THE UNITED STATES EXCEPT FOR MINIMAL QUANTITIES OF FOREIGN STEEL AND IRON VALUED AT \$ (ACTUAL VALUE), FURNISH EACH SUCH CERTIFICATION TO THE ENGINEER PRIOR TO INCORPORATING THE MATERIAL INTO THE PROJECT. WHEN FHWA ALLOWS THE USE OF FOREIGN STEEL ON A PROJECT, FURNISH INVOICES TO DOCUMENT THE COST OF SUCH MATERIAL, AND OBTAIN THE ENGINEER'S WRITTEN APPROVAL PRIOR TO INCORPORATING THE MATERIAL INTO THE PROJECT.
- 9. CONTRACTOR SHALL KEEP OPEN AS MANY PARKING SPACES ALONG DOYLE CARLTON AS POSSIBLE DURING CONSTRUCTION.

TESTING SCHEDULE

ITEM	TEST	TEST FREQUENCY
PIPE TRENCH BACK FILL OVER PIPELINES AND AROUND STRUCTURES FROM R.O.W. LINE TO R.O.W. LINE AND IN STRUCTURAL AREAS	OPTIMUM MOISTURE/MAXIMUM DENSITY 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70)	PER SOIL TYPE (SEE NOTES 1 AND 2 BELOW)
STABILIZED SUB GRADE	OPTIMUM MOISTURE/MAXIMUM DENSITY MINIMUM 40 LBR 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70)	PER MATERIAL TYPE PER MATERIAL TYPE (SEE NOTE 3 BELOW)
BASE (OTHER THAN SOIL CEMENT)	OPTIMUM MOISTURE/MAXIMUM DENSITY MINIMUM 100 LBR 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-57 (ASTM D1557-70) - NO TOLERANCE GRADATION, ATTERBURG LIMITS	PER SOURCE PER SOURCE EACH LIFT (SEE NOTE 3 BELOW) PER SOURCE
BASE (SOIL CEMENT)	SOIL CEMENT SHALL BE PLANT MIX OR PUG MILL MIX - NO MIX IN PLACE 95% MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-134 MINIMUM COMPRESSIVE STRENGTH AT 7 DAYS THICKNESS TEST CORES	1 PER 300 LF (MIN 1 PER STREET) 3 SAMPLES COMPACTED DAILY (300 PSD) 300 FT. INTERVALS (MIN 1 PER STREET)
CONCRETE (SEE NOTE 4 BELOW) (PER AASHTO & ASTM SPECS)	SLUMP TEST MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS COMPRESSIVE STRENGTH CYLINDERS AIR CONTENT	ONE PER SET OF CYLINDERS 3,500 PSI ONE SET OF THREE (3) CYLINDERS FOR 100 CUBIC YARDS OR FRACTION THEREOF ONE PER SET OF CYLINDERS
ASPHALTIC CONCRETE (PER FDOT SECTION 320)	AGGREGATE ANALYSIS DESIGN MIX BITUMEN CONTENT GRADATION STABILITY FLOW PROPERTIES OF IN-PLACE MATERIALS (MARSHALL) THICKNESS 95% OF LAB DENSITY	ONE PER DESIGN ONE PER TYPE ONE PER DAY ONE PER DAY ONE PER DAY (SEE NOTE 3 BELOW) (SEE NOTE 3 BELOW)

NOTE: REFER TO PLANS AND/OR SURVEY FOR ADDITIONAL ABBREVIATIONS NOT SHOWN IN THIS INDEX.

- 1. TESTS SHALL BE LOCATED NO MORE THAN 500 FEET APART. TESTS SHALL BE PERFORMED ON EACH LIFT, EXCEPT THAT TESTS SHALL NOT BE FURTHER APART THAN ONE (1) FOOT VERTICALLY. FIELD DENSITIES SHALL BE TAKEN OVER ALL ROAD CROSSINGS. FIELD DENSITIES FOR SANITARY LINES SHALL BE STAGGERED TO INCLUDE RESULTS OVER SERVICE LATERALS. THERE SHALL BE A MINIMUM OF ONE (1) TEST SERIES FOR EACH 6 INCHES OF LIFT OVER PIPELINE BETWEEN MANHOLES. TESTS AROUND STRUCTURES SHALL BE SPIRALED IN 6 INCH LIFTS. TESTS AROUND BOX CULVERTS SHALL BE DONE ON BOTH SIDES EVERY LIFT.
- 2. FOR FLEXIBLE PIPE (CORRUGATED STEEL OR ALUMINUM), 95% OF MAXIMUM DENSITY (AASHTO-199) PER FDOT SUPPLEMENTAL SPECIFICATIONS SUB ARTICLE 125-8.3.2 AS MODIFIED.
- 3. TESTS SHALL BE LOCATED NO MORE THAN 300 FEET APART. THERE SHALL BE NO LESS THAN THREE (3) TESTS PER ROAD.
- 4. APPLIES TO SITE CONCRETE SUCH AS CURBS, GUTTERS, FLUMES, DRIVEWAYS AND SIDEWALKS.
- 5. ENGINEER OF RECORD SHALL RECEIVE MATERIAL TESTING REPORTS NO LATER THAN ONE (1) WEEK FROM THE TEST DATE.
- 6. TESTING FOR RCP SHALL BEGIN AT THE SPRING LINE OF THE PIPE.
- 7. EMBANKMENT, FILL, AND BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED IN LIFTS NOT TO EXCEED TWELVE (12) INCHES VERTICALLY. EACH COMPACTED LIFT SHALL PASS THE AFOREMENTIONED TESTING CRITERIA BEFORE PROCEEDING TO THE NEXT VERTICAL LIFT.
- 8. DENSITY TESTS SHALL BE PERFORMED AT A MINIMUM FREQUENCY OF ONE TEST PER EVERY 250 SQUARE YARDS OF FILL MATERIAL BEING PLACED, PER VERTICAL LIFT.
- 9. IF SUCCESSIVE VERTICAL LIFTS ARE PLACED, THE DENSITY TESTS SHALL BE STAGGERED SO AS TO NOT BE REPEATED IN THE SAME LOCATION.

CONTRACTOR SHALL CALL "SUNSHINE STATE ONE CALL" 1-800-432-4770 A MINIMUM OF 2-DAYS AND A MAXIMUM OF 5-DAYS PRIOR TO START OF CONSTRUCTION.

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\2014-11-03\TREC GEN\KTS-dwg User Modified: Aug 25, 2014 - 3:17pm by lym_walker

DRWN:				
DSGN:				
CHKD:				
APVD:				
DATE:	07/11/14	NO.	BY	DATE
OB #:	12011325			
				DESCRIPTION
REVISIONS				

URS URS Corporation Southern
7650 W. Courtney Campbell Cwy.
Tampa, Florida 33607 (813) 288-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

GENERAL NOTES

DENNIS W. SYRJA, PE
Registered Professional
43423
FL Reg No. Sign Date
print date

G003

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK
2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or in Vero Beach (1-772-562-3909) for south Florida, and emailed to FWC at ImperiledSpecies@myFWC.com.
- f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8½" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at http://www.myfwc.com/WILDLIFEHABITATS/manatee_sign_vendors.htm. Questions concerning these signs can be forwarded to the email address listed above.

CAUTION: MANATEE HABITAT

All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work
all in-water activities must

SHUT DOWN

Report any collision with or injury to a manatee:



Wildlife Alert:

1-888-404-FWCC(3922)

cell *FWC or #FWC

Drawing Name: S:\Projects\Tampa Riverwalk\Drawings\Production\DWG\2011-TRWC GEN\WTS.dwg Last Modified: Jun 30, 2014 - 2:31pm Plotted on: Jun 30, 2014 - 2:35pm by lym_carter

NO.	BY	DATE	DESCRIPTION

URS URS Corporation Southern
7650 W. Courtney Campbell Causeway,
Tampa, Florida 33607 (813) 286-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

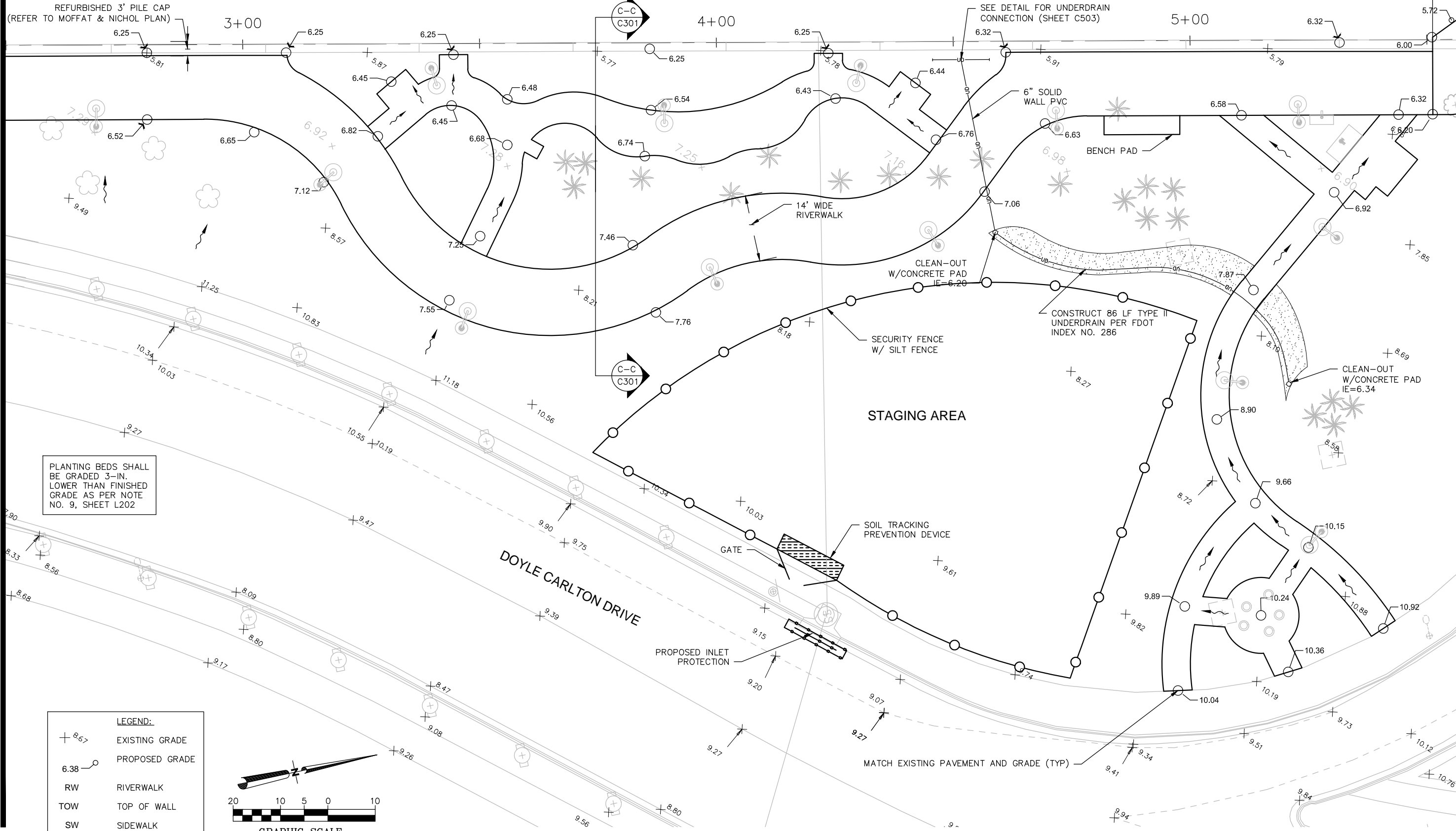
DENNIS W. SYRJIA, PE
Registered Professional
43423
FL Reg No. Sign Date

G004

print date

HILLSBOROUGH RIVER

PROPOSED CANTILEVER SECTION (REFER TO STRUCTURAL PLANS FOR DETAIL)



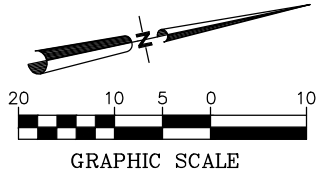
REFURBISHED 3' PILE CAP (REFER TO MOFFAT & NICHOL PLAN)

SEE DETAIL FOR UNDERDRAIN CONNECTION (SHEET C503)

PLANTING BEDS SHALL BE GRADED 3-IN. LOWER THAN FINISHED GRADE AS PER NOTE NO. 9, SHEET L202

LEGEND:

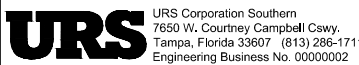
+ 8.65	EXISTING GRADE
6.38	PROPOSED GRADE
RW	RIVERWALK
TOW	TOP OF WALL
SW	SIDEWALK



TAMPA RIVERWALK - DOYLE CARLTON SEGMENT

FOR CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

EQUIPMENT STAGING AREA



DENNIS W. SYRJJA, PE
Registered Professional
43423
FL Reg No. Sign Date print date

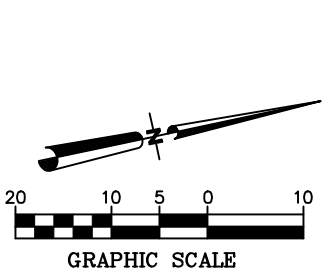
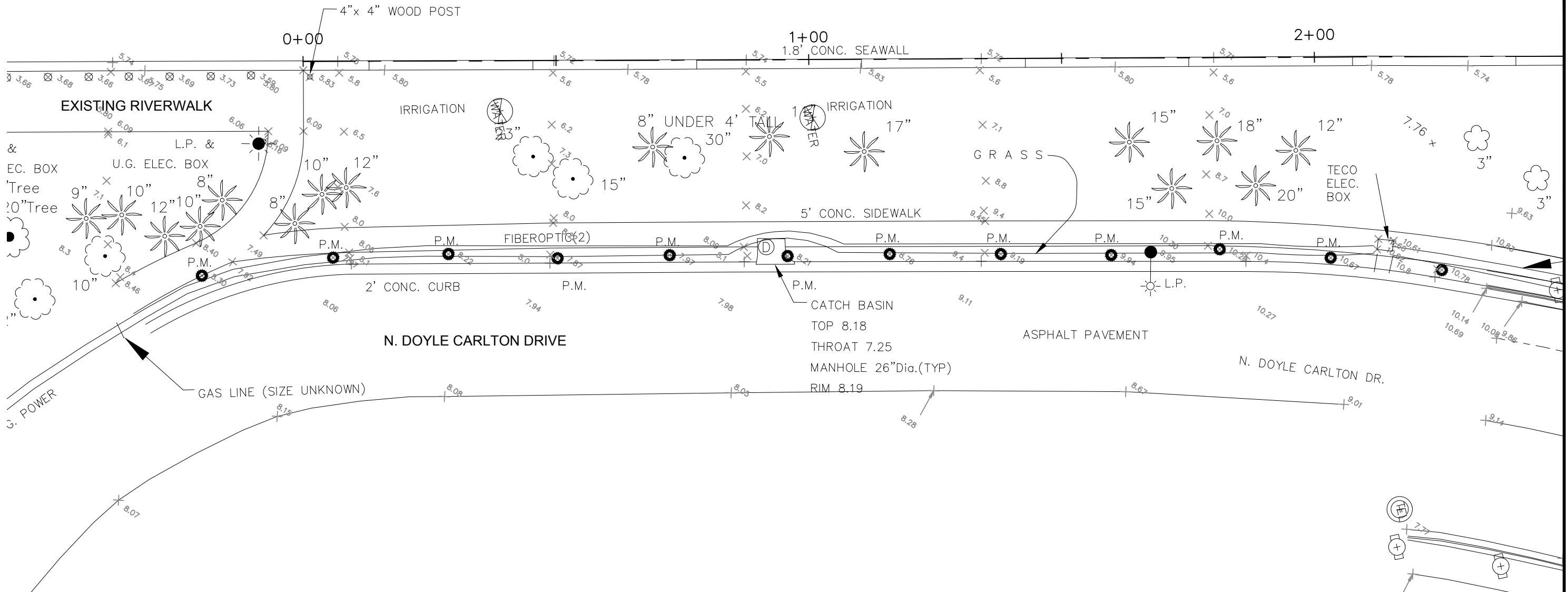
G005

Drawing Name: S:\Projects\Tampa Riverwalk\Doyle Carlton\Production\DWG\G005.dwg Unit: Modified: Sep 12, 2014 - 8:05am Plotted on: Sep 12, 2014 - 8:05am by: jmc_center

NO.	BY	DATE	DESCRIPTION

(TYP)

HILLSBOROUGH RIVER



TREE LEGEND:	
	PALM TREE
	OAK TREE
	TREE FLOWERING

MATCHLINE (SHEET V102)

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\V101 TREE EX COND TREE INV.dwg Last Modified: Aug 25, 2014 - 3:14pm Plotted on: Aug 25, 2014 - 3:18pm by lym_center



SURVEY PROVIDED BY:
ECHEZABAL & ASSOCIATES, INC.
 108 W. Country Club Drive
 Tampa, Florida 33612
 Ph: (813) 933-2505
 Fax: (813) 933-2721
 STEVEN M. TATE, PSM
 #5242

NO.	BY	DATE	DESCRIPTION

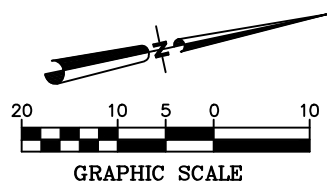


TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

EXISTING CONDITIONS UPDATED TREE INVENTORY PLAN

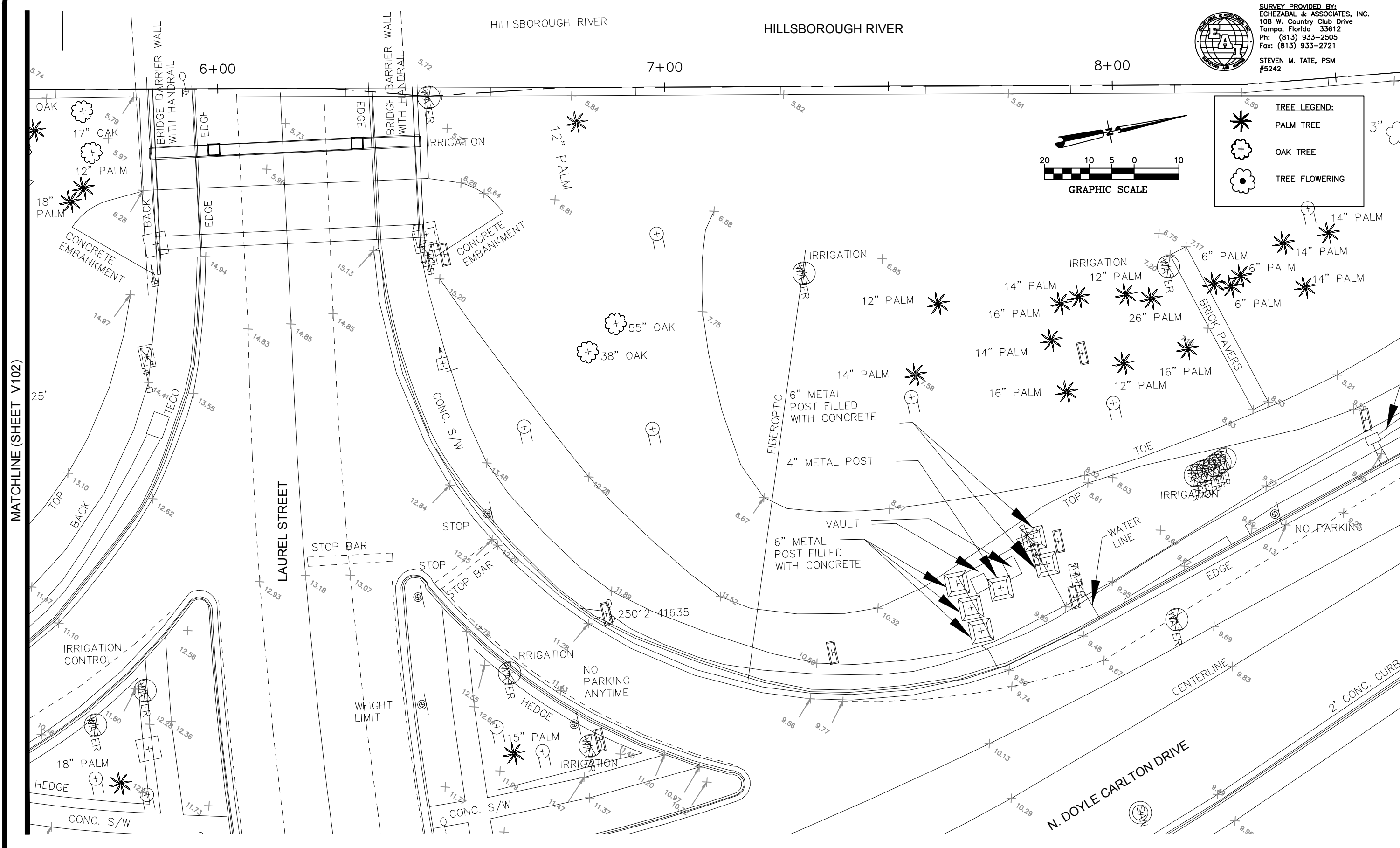
V101
print date

SURVEY PROVIDED BY:
 ECHEZABAL & ASSOCIATES, INC.
 108 W. Country Club Drive
 Tampa, Florida 33612
 Ph: (813) 933-2505
 Fax: (813) 933-2721
 STEVEN M. TATE, PSM
 #5242



TREE LEGEND:

	PALM TREE
	OAK TREE
	TREE FLOWERING



MATCHLINE (SHEET V102)

MATCHLINE (SHEET V104)

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\V103 TREE EX CONC TREE INV.dwg Last Modified: Aug 25, 2014 - 3:14pm Plotted on: Aug 25, 2014 - 3:25pm by lym_center

NO.	BY	DATE	DESCRIPTION

REVISIONS

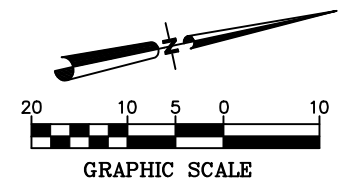
URS URS Corporation Southern
 7650 W. Courtney Campbell Cswy.
 Tampa, Florida 33607 (813) 286-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

EXISTING CONDITIONS UPDATED TREE INVENTORY PLAN

V103
 print date

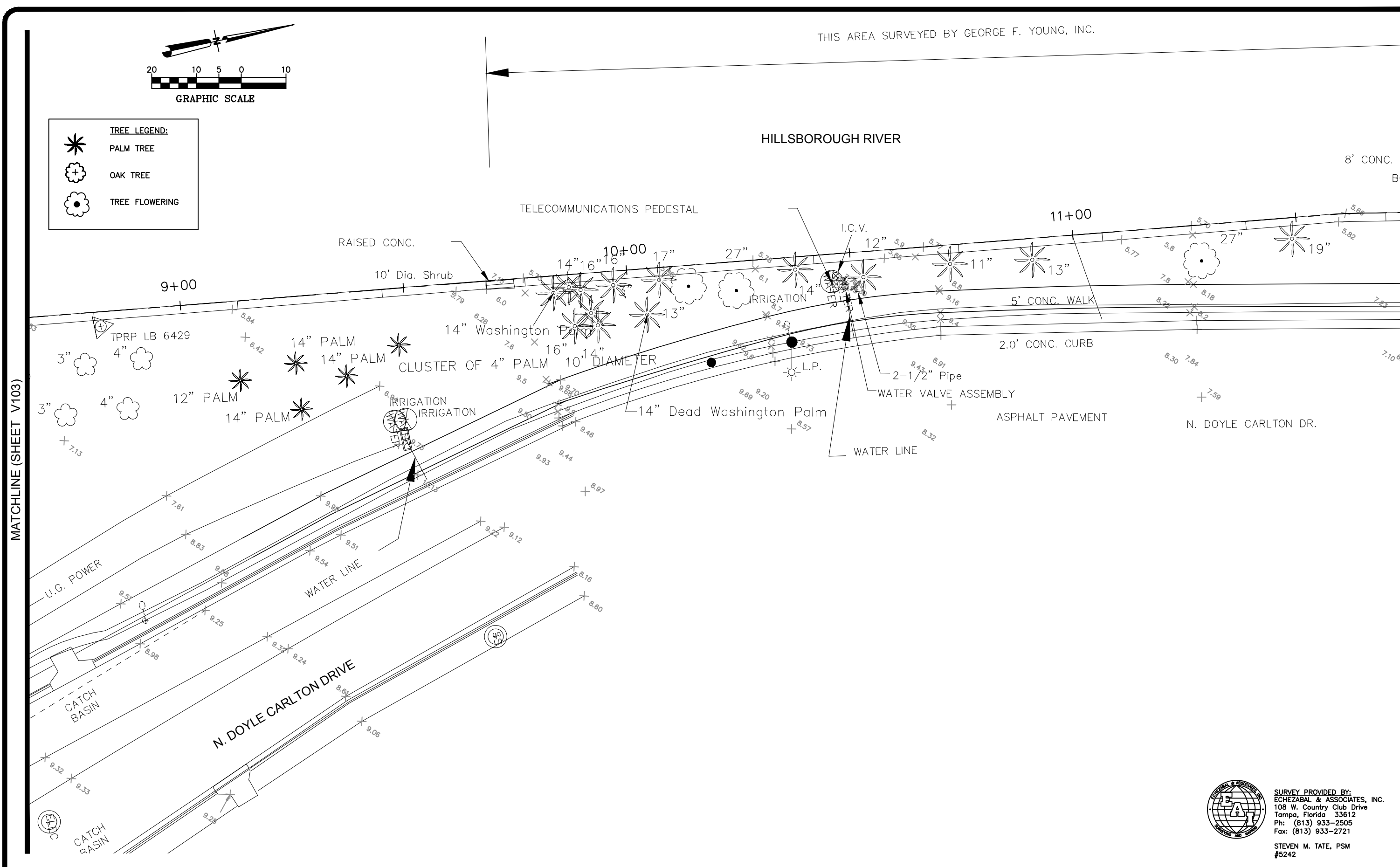
THIS AREA SURVEYED BY GEORGE F. YOUNG, INC.



TREE LEGEND:

- PALM TREE
- OAK TREE
- TREE FLOWERING

HILLSBOROUGH RIVER



MATCHLINE (SHEET V103)

MATCHLINE (SHEET V105)



SURVEY PROVIDED BY:
 ECHEZABAL & ASSOCIATES, INC.
 108 W. Country Club Drive
 Tampa, Florida 33612
 Ph: (813) 933-2505
 Fax: (813) 933-2721

STEVEN M. TATE, PSM
 #5242

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\V101 TREE EX CONC TREE INV.dwg Last Modified: Aug 25, 2014 - 3:14pm Plotted on: Aug 25, 2014 - 3:25pm by lym_center

NO.	BY	DATE	DESCRIPTION

REVISIONS

URS URS Corporation Southern
 7650 W. Courtney Campbell Cswy.
 Tampa, Florida 33607 (813) 286-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

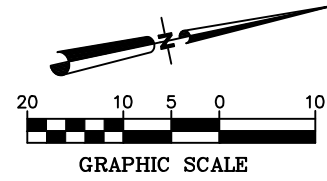
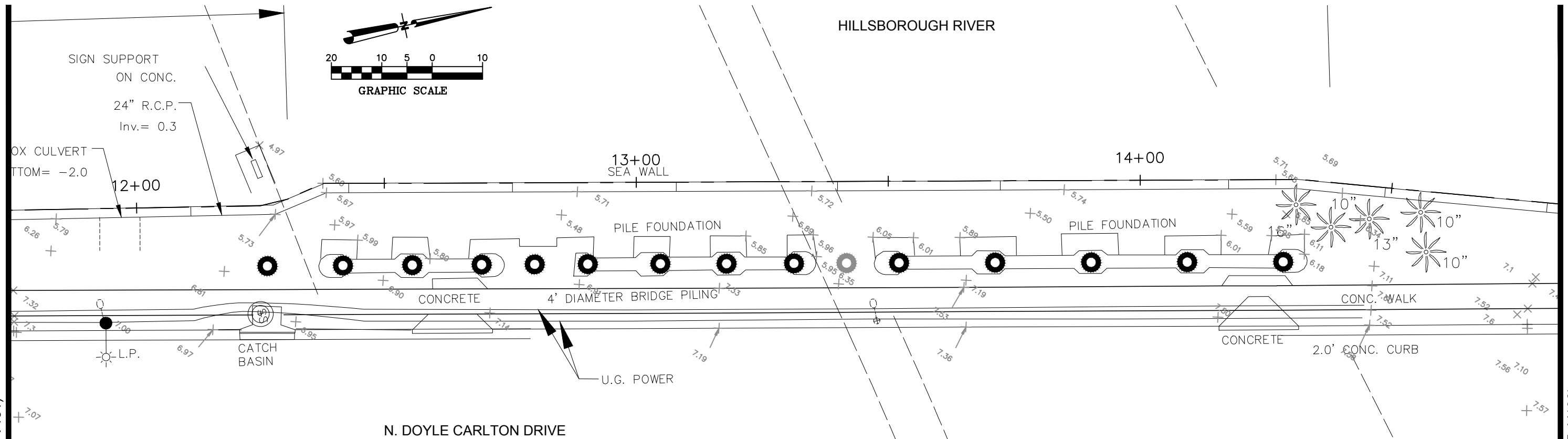
EXISTING CONDITIONS UPDATED TREE INVENTORY PLAN

V104

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\V101 TREE EX CONC TREE INV.dwg Last Modified: Aug 25, 2014 - 3:14pm Plotted on: Aug 25, 2014 - 3:26pm by lym_center

MATCHLINE (SHEET V104)

MATCHLINE (SHEET V106)



TREE LEGEND:	
	PALM TREE
	OAK TREE
	TREE FLOWERING



SURVEY PROVIDED BY:
ECHEZABAL & ASSOCIATES, INC.
 108 W. Country Club Drive
 Tampa, Florida 33612
 Ph: (813) 933-2505
 Fax: (813) 933-2721
 STEVEN M. TATE, PSM
 #5242

NO.	BY	DATE	DESCRIPTION

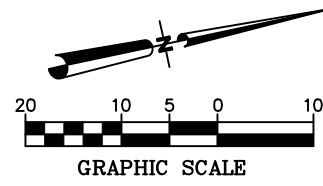


TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

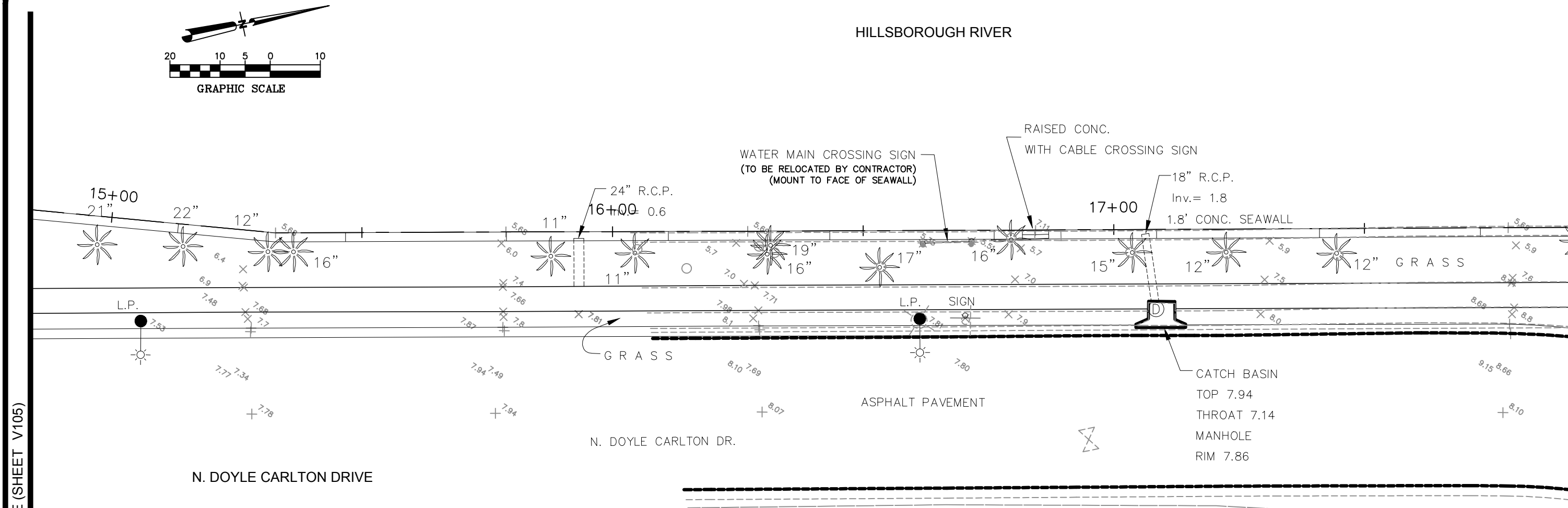
EXISTING CONDITIONS UPDATED TREE INVENTORY PLAN

V105

print date:



HILLSBOROUGH RIVER



MATCHLINE (SHEET V105)

MATCHLINE (SHEET V107)

TREE LEGEND:

- PALM TREE
- OAK TREE
- TREE FLOWERING

SURVEY PROVIDED BY:
ECHEZABAL & ASSOCIATES, INC.
108 W. Country Club Drive
Tampa, Florida 33612
Ph: (813) 933-2505
Fax: (813) 933-2721
STEVEN M. TATE, PSM
#5242

Drawing Name: S:\Projects\Tampa Riverwalk Doyle Carlton\Production\DWG\V101 TREE EX COND TREE INV.dwg Last Modified: Aug 25, 2014 - 3:14pm Plotted on: Aug 25, 2014 - 3:27pm by lym_center

NO.	BY	DATE	DESCRIPTION

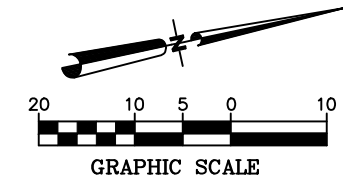
REVISIONS

URS URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 286-1711
Engineering Business No. 00000002

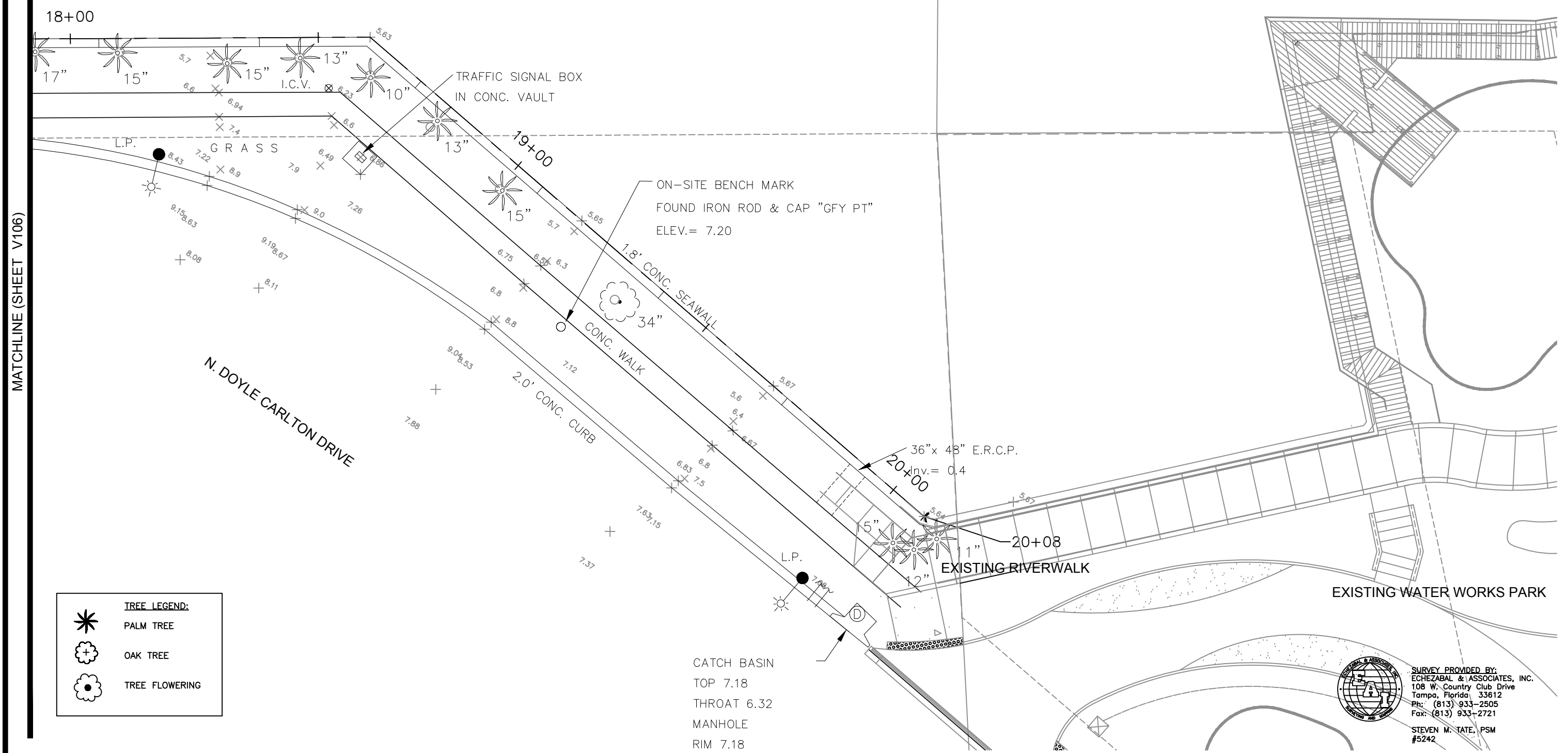
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

EXISTING CONDITIONS UPDATED TREE INVENTORY PLAN

V106
print date



HILLSBOROUGH RIVER



MATCHLINE (SHEET V106)

TREE LEGEND:

	PALM TREE
	OAK TREE
	TREE FLOWERING

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\V101 TRWC EX CONC TREE INV.dwg Last Modified: Aug 25, 2014 - 3:14pm Plotted on: Aug 25, 2014 - 3:28pm by lym_center

NO.	BY	DATE	DESCRIPTION

REVISIONS

URS URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 286-1711
Engineering Business No. 00000002

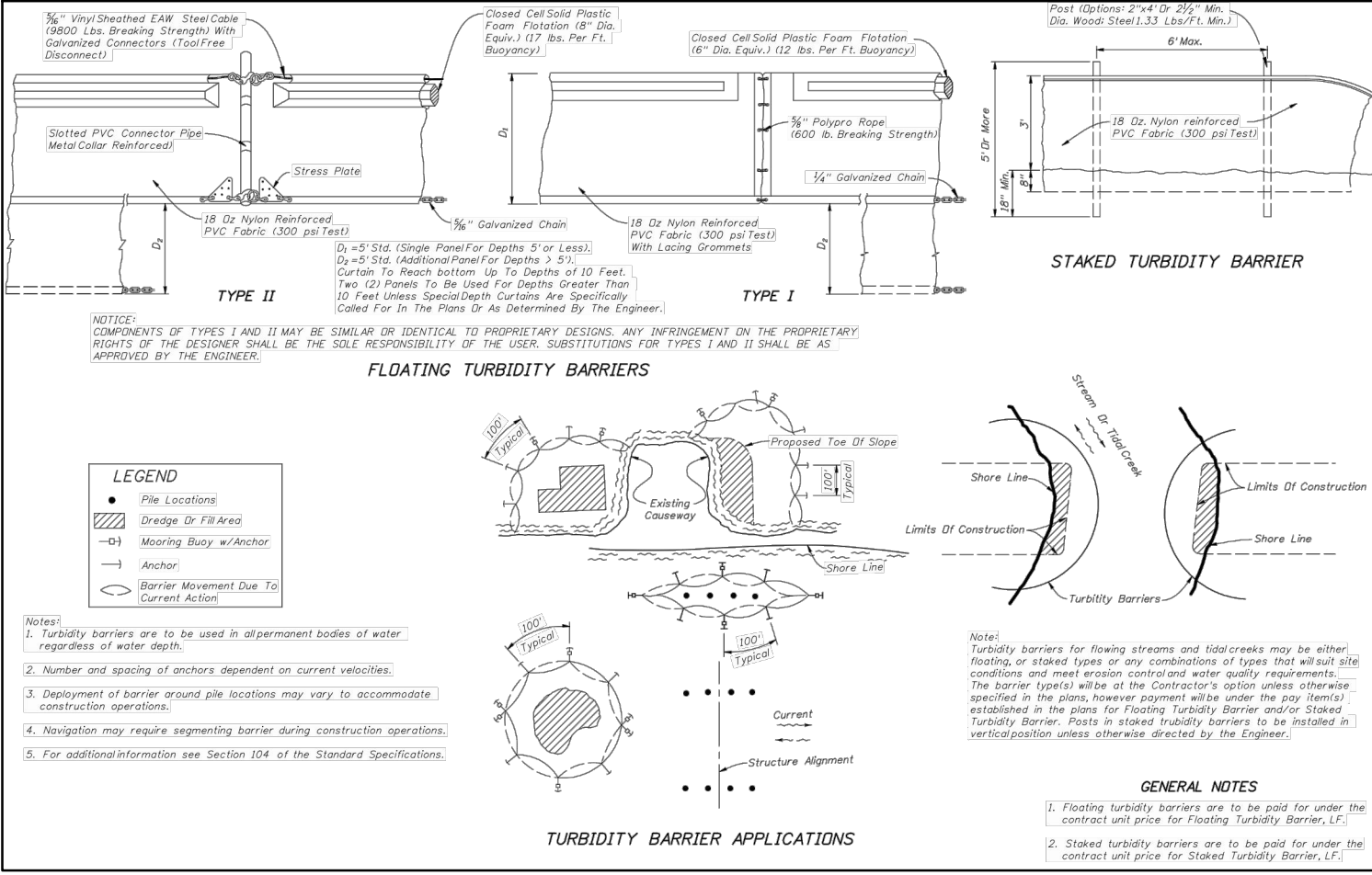
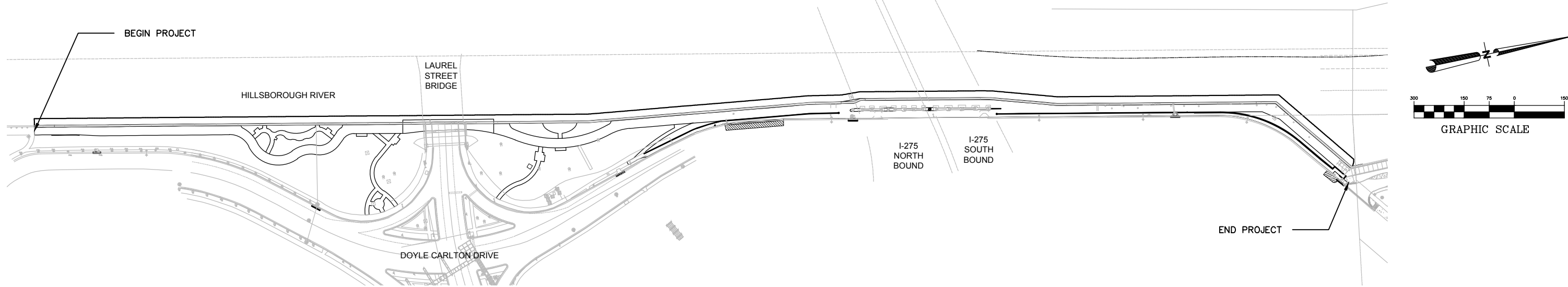
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

EXISTING CONDITIONS UPDATED TREE INVENTORY PLAN



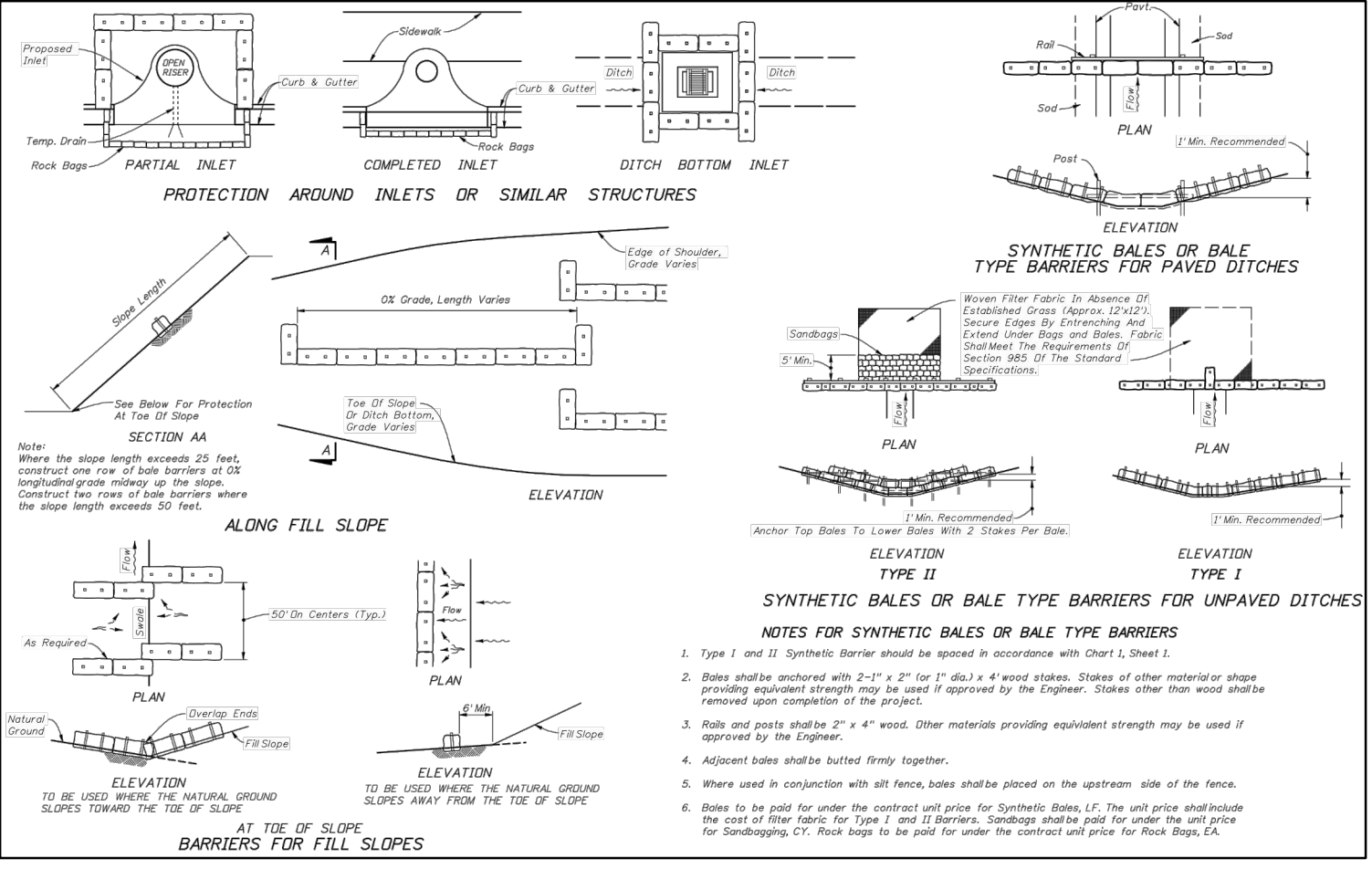
SURVEY PROVIDED BY:
ECHEZABAL & ASSOCIATES, INC.
108 W. Country Club Drive
Tampa, Florida 33612
Ph: (813) 933-2505
Fax: (813) 933-2721
STEVEN M. TATE, PSM
#5242

V107
print date



FLOATING TURBIDITY BARRIER

N.T.S.



TEMPORARY SEDIMENTATION/EROSION CONTROL

N.T.S.

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

EROSION & SEDIMENTATION CONTROL PLAN

C111

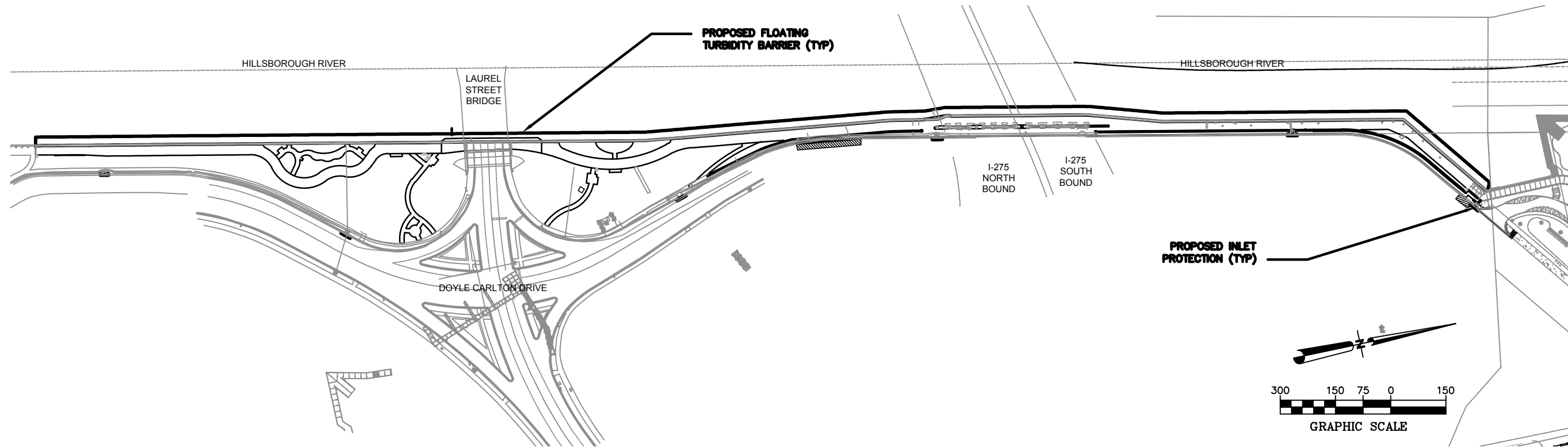
Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C501-TRWC CSPP-Long Link Modified: Apr 14, 2014 - 10:17am Plotted on: Jun 19, 2014 - 8:55am by christopher_bryant

NO.	BY	DATE	DESCRIPTION

URS URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 288-1711
Engineering Business No. 00000002

DENNIS W. SYRJIA, PE
Registered Professional
43423
FL Reg. No. Sign Date

print date



CONSTRUCTION SURFACE WATER MANAGEMENT PLAN:

CONTAINED ON THESE PLANS AND WITHIN THE FOLLOWING NOTES IS A STORMWATER POLLUTION PREVENTION PLAN (THE PLAN) WHICH HAS BEEN DEVELOPED BY URS CORPORATION, INC. IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION AGENCY'S "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM" (NPDES) GENERAL PERMIT.

THE FOLLOWING ENTITIES ARE IDENTIFIED AS TEAM MEMBERS OF "THE PLAN": URS CORPORATION, THE DEVELOPER AS IDENTIFIED IN THE TITLE BOX OF THESE PLANS, AND THE SITE CONTRACTOR AND HIS SUB-CONTRACTORS. EACH TEAM MEMBER HAS SPECIFIC RESPONSIBILITIES AND OBLIGATIONS. IN GENERAL, ALL TEAM MEMBERS, WITH REGARD TO THEIR INVOLVEMENT AND RESPONSIBILITIES ON THE PROJECT, ARE TO IMPLEMENT ALL NECESSARY STORMWATER MANAGEMENT CONTROLS TO ASSURE COMPLIANCE WITH STATE WATER POLICY OF FLORIDA (CHAPTER 17-40, FLORIDA ADMINISTRATIVE CODE), THE APPLICABLE STORMWATER REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION, THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT, AND THE GUIDELINES CONTAINED IN THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FDER 1988). MORE SPECIFICALLY, THE DUTIES AND RESPONSIBILITIES OF THE TEAM MEMBERS ARE AS FOLLOWS:

URS CORPORATION, INC.

- A. DEVELOP A DESIGN FOR STORMWATER POLLUTION PREVENTION INCLUDING, BUT NOT LIMITED TO, RETENTION/DETENTION PONDS, CONTROL STRUCTURES, EROSION CONTROL METHODS AND LOCATIONS AND STABILIZATION CRITERIA. THIS DESIGN IS INCLUDED WITHIN THESE CONSTRUCTION PLANS.
- B. UPON NOTIFICATION BY THE CONTRACTOR, MODIFY THE PLAN AS REQUIRED TO PREVENT STORMWATER POLLUTION RUN-OFF.
- C. SUBMIT AND OBTAIN THE NECESSARY DESIGN RELATED STORMWATER PERMITS FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT AND OTHER APPLICABLE GOVERNMENTAL BODIES.
- D. UPON NOTIFICATION BY THE DEVELOPER OF HIS INTENT TO COMMENCE CONSTRUCTION, SUBMIT A NOTICE OF INTENT PERMIT TO THE ENVIRONMENTAL PROTECTION AGENCY, ALONG WITH A NARRATIVE STATEMENT CERTIFYING THAT THE STORMWATER POLLUTION PREVENTION PLAN PROVIDES COMPLIANCE WITH APPROVED STATE OF FLORIDA ISSUED PERMITS, EROSION AND SEDIMENTATION CONTROL PLANS AND STORMWATER MANAGEMENT PLANS.
- E. SUBMIT TO EPA, ALONG WITH THE ABOVE CERTIFICATION, A COPY OF THE COVER PAGE OF THE STATE OF FLORIDA PERMIT ISSUED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION AND/OR THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT.
- F. SUBMIT TO EPA A COPY OF THE NOTICE OF INTENT TO THE APPLICABLE OPERATOR OF THE MUNICIPAL SEPARATE STORMWATER SYSTEM.
- G. COMPLETE THE APPROPRIATE FORMS FOR THE DEVELOPER'S SUBMISSION OF THE NOTICE OF TERMINATION TO THE ENVIRONMENTAL PROTECTION AGENCY AND ALL APPLICABLE GOVERNMENTAL ENTITIES UPON COMPLETION OF CONSTRUCTION AND FINAL STABILIZATION.

CONTRACTOR

- A. DURING CONSTRUCTION, ASSURE COMPLIANCE WITH THE DESIGNED STORMWATER POLLUTION PREVENTION PLANS PREPARED BY URS CORPORATION.
- B. NOTIFY URS CORPORATION, INC. AND THE DEVELOPER IN WRITING OF ANY NON-STORMWATER POLLUTION SOURCES WHICH ARE BEING STORED, OR OTHERWISE USED DURING THE CONSTRUCTION OF THE PROJECT, I.E., FERTILIZERS, FUELS, PESTICIDES, OTHER CHEMICALS. THIS NOTIFICATION SHOULD BE ACCOMPANIED WITH THE CONTRACTOR'S DESIGN AND METHODS TO PREVENT POLLUTION RUN-OFF FROM THESE SOURCES.
- C. INSPECT ALL EROSION CONTROL DEVICES (MINIMUM WEEKLY), REPAIR AND/OR REPLACE AS NEEDED.
- D. INSPECT ALL STORMWATER POINTS OF DISCHARGE AND NOTIFY URS CORPORATION IN WRITING IF EROSION CONTROL AND STORMWATER MANAGEMENT MEASURES ARE INEFFECTIVE, AND IF REVISION TO THE STORMWATER MANAGEMENT PLAN ARE NEEDED.
- E. INITIATE SITE STABILIZATION MEASURES AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.
- F. SUBMIT A CERTIFICATION, UTILIZING YOUR COMPANY LETTERHEAD, TO URS CORPORATION AND TO THE DEVELOPER AS FOLLOWS:

"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 STORMWATER DISCHARGES ASSOCIATED WITH ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION."

CONTRACTOR
 ADDRESS _____
 CITY, STATE, ZIP _____
 TELEPHONE NUMBER _____
 DATE _____
 SIGNATURE _____
 NAME & TITLE _____

THIS CERTIFICATION SHALL BE MADE PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR IS ALSO RESPONSIBLE TO ASSURE THAT ALL SUB-CONTRACTORS SIGN THE ABOVE CERTIFICATION AND SUBMIT SAME TO THE DEVELOPER AND URS CORPORATION, INC.

- G. MAINTAIN A COPY OF THE CONSTRUCTION PLANS, WHICH INCLUDE THE STORMWATER POLLUTION PREVENTION PLANS, ON-SITE.
- H. UNDERTAKE ALL REASONABLE MEASURES TO ASSURE THAT SILTED OR OTHERWISE POLLUTED STORMWATER IS NOT ALLOWED TO DISCHARGE FROM THE SITE.
- I. USE THE DETENTION PONDS AS SEDIMENTATION BASINS OR CREATE SEDIMENTATION BASINS AS NEEDED.

DEVELOPER

- A. SIGN AND CERTIFY THE NOTICE OF INTENT FORM AS OPERATOR OF THE STORMWATER DISCHARGE FACILITY AND PERMITTEE.
- B. SIGN AND SUBMIT A NOTICE OF TERMINATION FORM FOLLOWING CONSTRUCTION AND FINAL STABILIZATION OF THE SITE.

SITE SPECIFIC NOTES:

- 1. RECEIVING WATERS OR MUNICIPAL SEPARATE STORM WATER SYSTEM: HILLSBOROUGH RIVER.
- 2. ANTICIPATED START DATE: JANUARY 5, 2015
- 3. ANTICIPATED COMPLETION DATE: JANUARY 1, 2016
- 4. ANTICIPATED CONSTRUCTION SEQUENCE IS AS FOLLOWS: COMPLETE EROSION CONTROL INSTALLATION, CLEARING AND GRUBBING, EARTHWORK ACTIVITIES, STORMWATER SYSTEM CONSTRUCTION, UTILITY CONSTRUCTION, BASE AND PAVEMENT CONSTRUCTION, FINAL STABILIZATION.
- 5. TOTAL SITE ACRES: 1.00 ACRES ±
- 6. RUN-OFF COEFFICIENTS ('C' FACTORS)
 PRE-DEVELOPED: 0.20
 POST-DEVELOPED: 0.78
- 7. THE STORMWATER MANAGEMENT SYSTEM, UPON COMPLETION OF CONSTRUCTION AND APPROPRIATE CERTIFICATION AND AS-BUILT SUBMITTALS, WILL BE OPERATED AND MAINTAINED BY THE CITY OF TAMPA.
- 8. THE POTENTIAL SOURCE OF POLLUTION FROM THIS PROJECT IS SOIL EROSION DURING CONSTRUCTION ACTIVITIES.

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C501-TRWC CSWP-Eng Layout Modified: Aug 25, 2014 - 3:32pm Plotted on: Aug 25, 2014 - 3:33pm by lym_center

NO.	BY	DATE	DESCRIPTION



TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

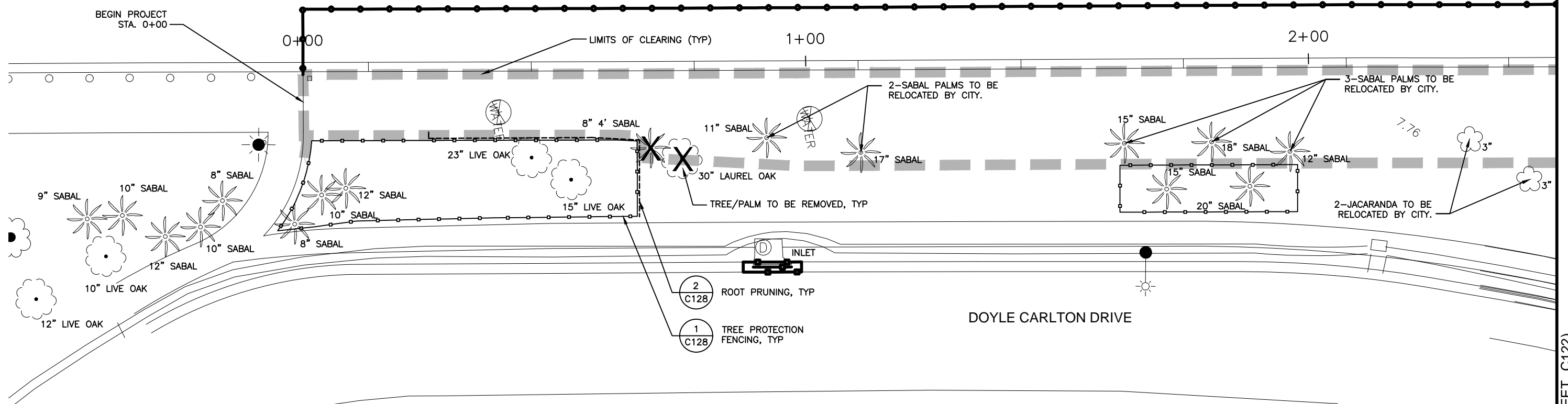
CONSTRUCTION SURFACE WATER POLLUTION PREVENTION PLAN

SIGNATURE _____ DATE _____
 PRINT NAME: _____
 AUTHORIZED AGENT FOR:
 CITY OF TAMPA

DENNIS W. SYRJIA, PE
 Registered Professional
 43423
 FL Reg No. _____
 Sign Date _____

C112

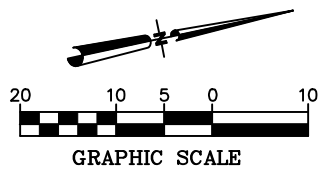
HILLSBOROUGH RIVER



- 2
C128
ROOT PRUNING, TYP
- 1
C128
TREE PROTECTION FENCING, TYP

LEGEND:

- TREE BARRICADE (REFER TO LANDSCAPE PLANS FOR DETAIL)
- TREE TO BE REMOVED
- ROOT PRUNING
- INLET PROTECTION/EROSION CONTROL
- FLOATING TURBIDITY BARRIER
- LIMITS OF CLEARING
- EXISTING PAVEMENT/SIDEWALK TO BE REMOVED



MATCHLINE (SHEET C122)

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C121 TREE PROTECTION.dwg User: jmc_center Date: 07/11/14 11:13am

NO.	BY	DATE	DESCRIPTION

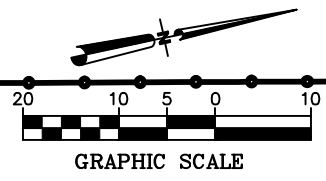
URS URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 285-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

TREE PROTECTION & SITE DEMOLITION PLAN

DENNIS W. SYRJJA, PE
Registered Professional
43423
FL Reg No. Sign Date print date

C121



3+00

4+00

HILLSBOROUGH RIVER

5+00 REFER TO STRUCTURAL DEMOLITION PLAN (SD101) FOR DETAIL

4-JACARANDA TO BE RELOCATED BY CITY.

7-SABAL PALMS TO BE RELOCATED BY CITY.

1 TREE PROTECTION FENCING, TYP C128

LIMITS OF CLEARING (TYP)

REMOVE EXISTING WALKWAY PAVERS

DOYLE CARLTON DRIVE

MATCHLINE (SHEET C121)

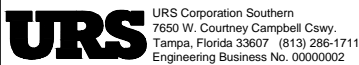
MATCHLINE (SHEET C123)

LEGEND:

- TREE BARRICADE (REFER TO LANDSCAPE PLANS FOR DETAIL)
- TREE TO BE REMOVED
- ROOT PRUNING
- INLET PROTECTION/EROSION CONTROL
- FLOATING TURBIDITY BARRIER
- LIMITS OF CLEARING
- EXISTING PAVEMENT/SIDEWALK TO BE REMOVED

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C121 TREE PROTECTION.dwg Last Modified: Aug 27, 2014 - 1:55pm Plotted on: Sep 11, 2014 - 11:03am by jmc_center

NO.	BY	DATE	DESCRIPTION



TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

TREE PROTECTION & SITE DEMOLITION PLAN

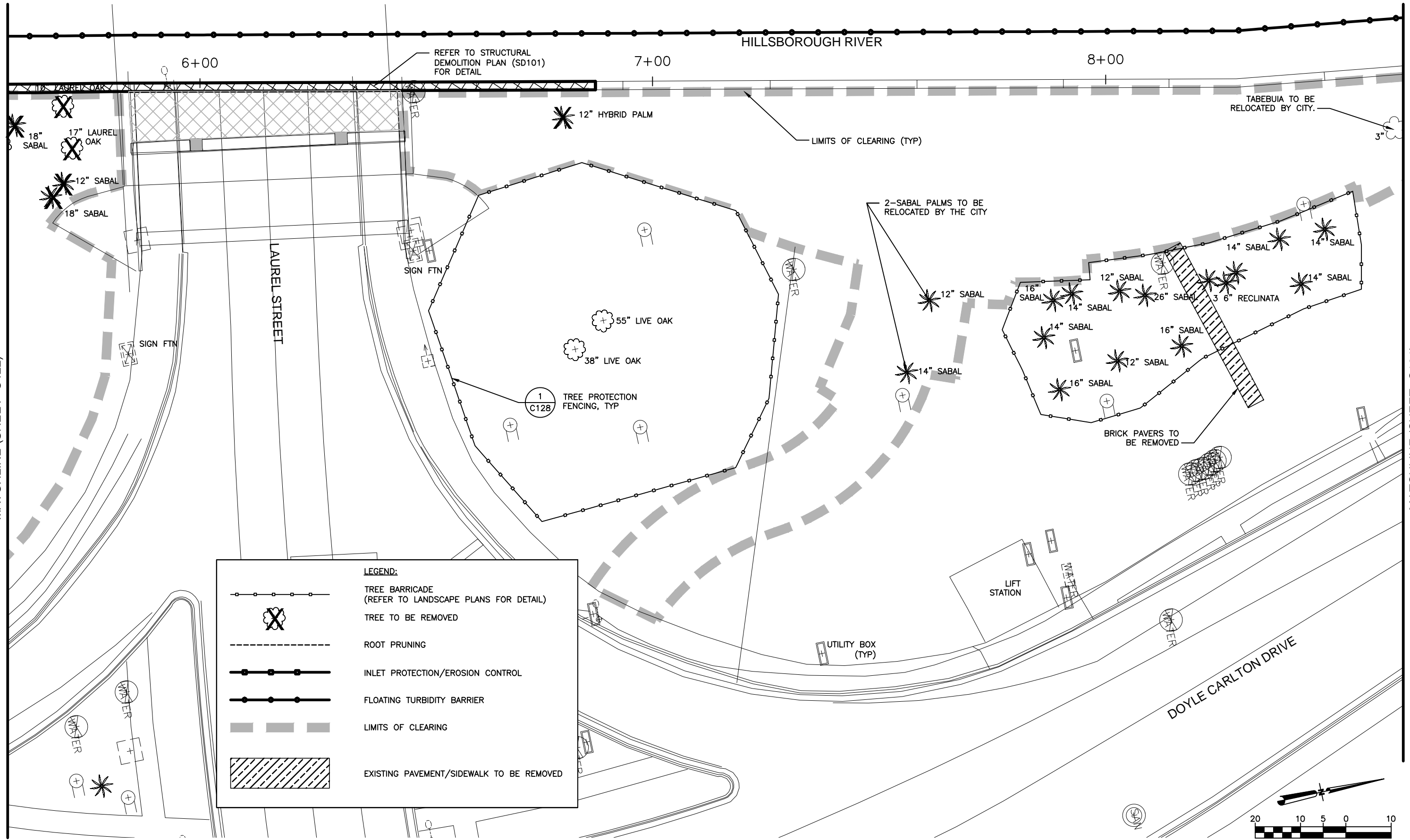
DENNIS W. SYRJJA, PE
Registered Professional
43423
FL Reg No. Sign Date print date

C122

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C123 TREE PROTECTION.dwg Last Modified: Aug 27, 2014 - 1:58pm Plotted on: Sep 11, 2014 - 11:03am by jmc_center

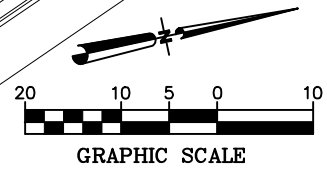
MATCHLINE (SHEET C122)

MATCHLINE (SHEET C124)



LEGEND:

- TREE BARRICADE (REFER TO LANDSCAPE PLANS FOR DETAIL)
- TREE TO BE REMOVED
- ROOT PRUNING
- INLET PROTECTION/EROSION CONTROL
- FLOATING TURBIDITY BARRIER
- LIMITS OF CLEARING
- EXISTING PAVEMENT/SIDEWALK TO BE REMOVED



NO.	BY	DATE	DESCRIPTION

REVISIONS

URS URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 286-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

TREE PROTECTION & SITE DEMOLITION PLAN

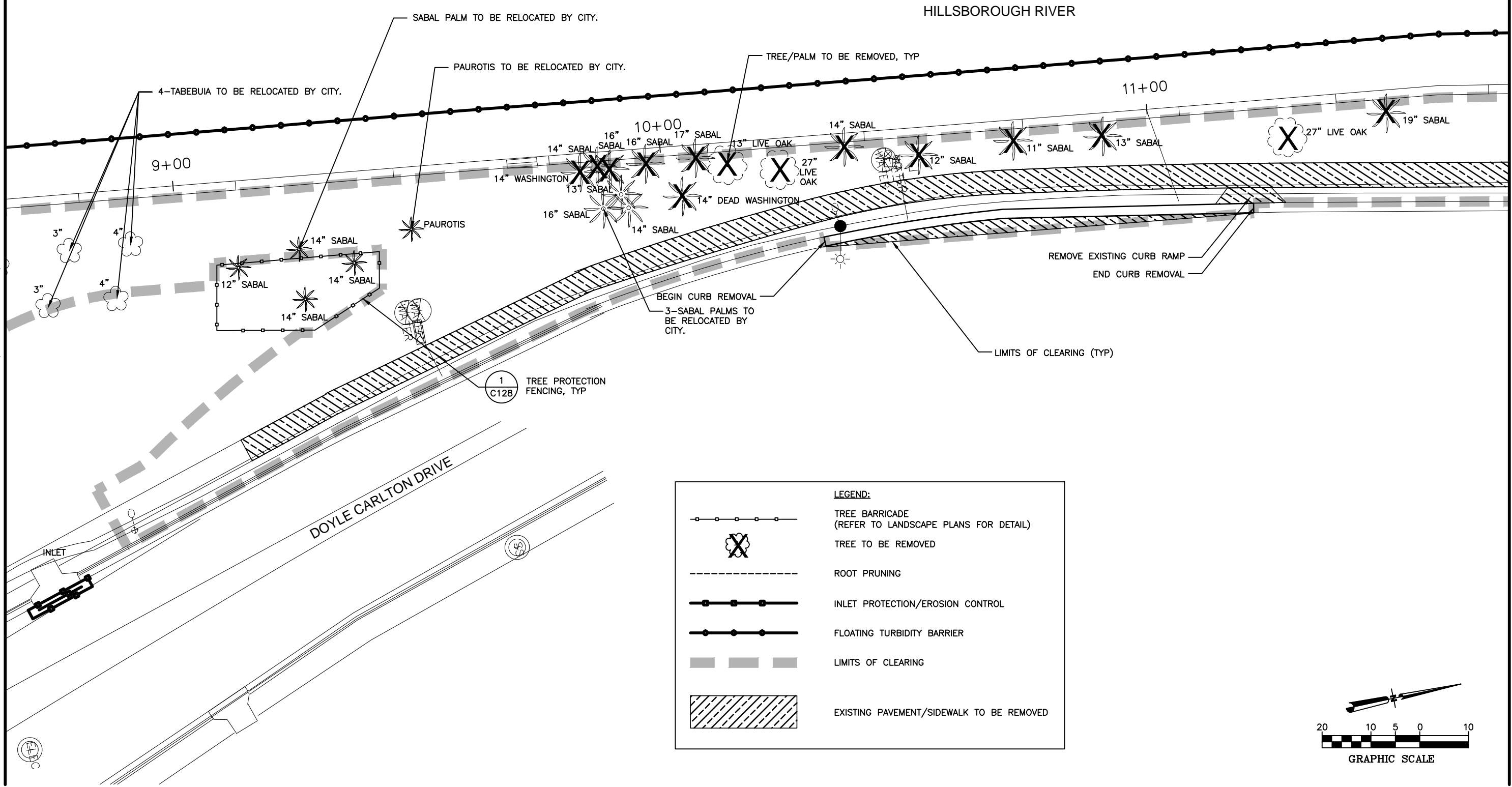
C123

DENNIS W. SYRJJA, PE
Registered Professional
43423
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Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C124 TREE PROTECTION.dwg Last Modified: Aug 27, 2014 - 1:55pm Plotted on: Sep 11, 2014 - 11:30am by jmc_center

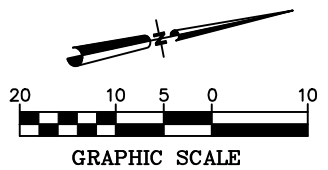
MATCHLINE (SHEET C123)

MATCHLINE (SHEET C125)



LEGEND:

- TREE BARRICADE (REFER TO LANDSCAPE PLANS FOR DETAIL)
- TREE TO BE REMOVED
- ROOT PRUNING
- INLET PROTECTION/EROSION CONTROL
- FLOATING TURBIDITY BARRIER
- LIMITS OF CLEARING
- EXISTING PAVEMENT/SIDEWALK TO BE REMOVED



NO.	BY	DATE	DESCRIPTION

REVISIONS

URS URS Corporation Southern
 7650 W. Courtney Campbell Cswy.
 Tampa, Florida 33607 (813) 286-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

TREE PROTECTION & SITE DEMOLITION PLAN

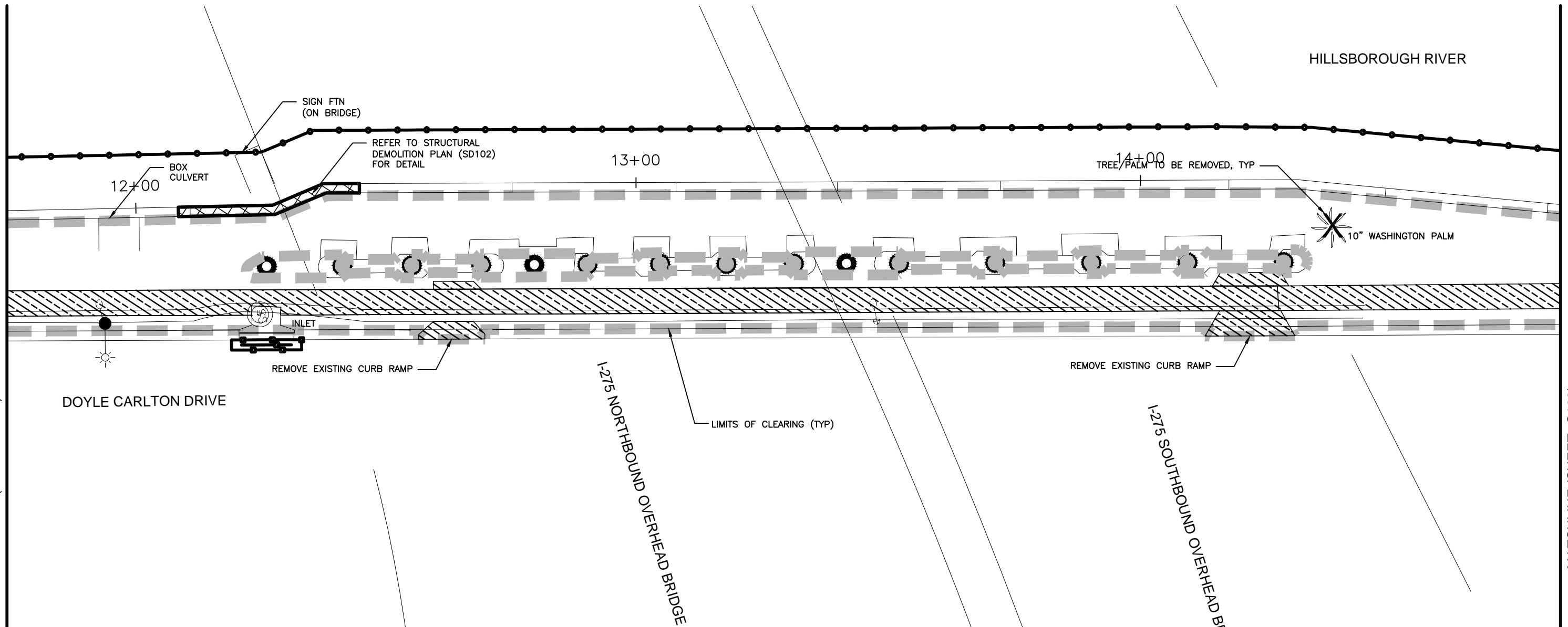
DENNIS W. SYRJA, PE
 Registered Professional
 43423
 FL Reg No. Sign Date print date

C124

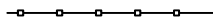






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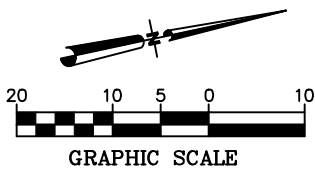
MATCHLINE (SHEET C124)

MATCHLINE (SHEET C126)



LEGEND:

-  TREE BARRICADE (REFER TO LANDSCAPE PLANS FOR DETAIL)
-  TREE TO BE REMOVED
-  ROOT PRUNING
-  INLET PROTECTION/EROSION CONTROL
-  FLOATING TURBIDITY BARRIER
-  LIMITS OF CLEARING
-  EXISTING PAVEMENT/SIDEWALK TO BE REMOVED



NO.	BY	DATE	DESCRIPTION

REVISIONS

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 Tampa, Florida 33607 (813) 285-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

TREE PROTECTION & SITE DEMOLITION PLAN

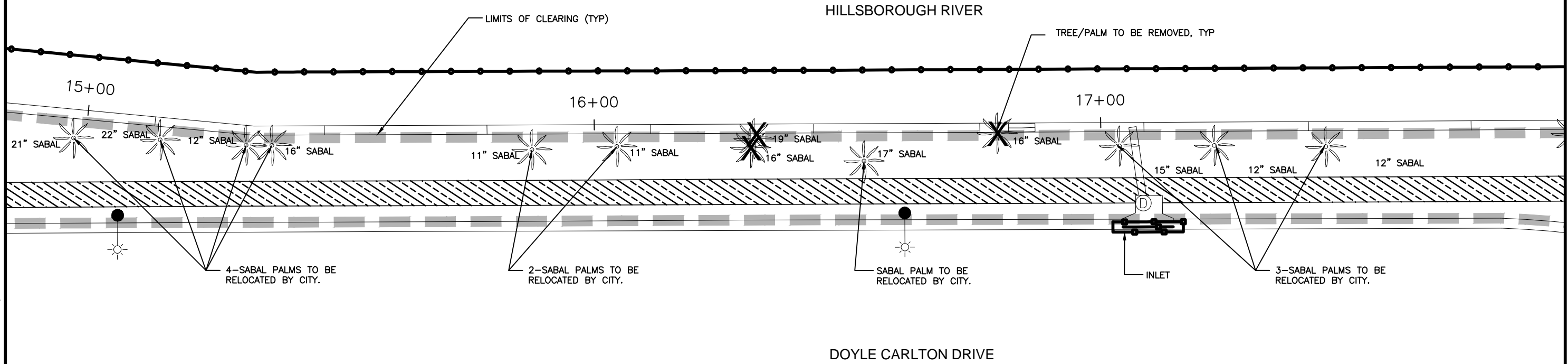
DENNIS W. SYRJJA, PE
 Registered Professional
 43423
 FL Reg No. Sign Date print date

C125

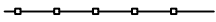

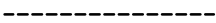



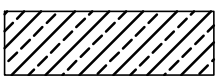
Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C125 TREE PROTECTION.dwg Last Modified: Aug 27, 2014 - 1:55pm Plotted on: Sep 11, 2014 - 11:40am by jmc_center

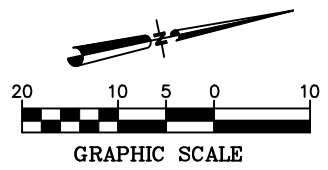
MATCHLINE (SHEET C125)

MATCHLINE (SHEET C127)



LEGEND:

-  TREE BARRICADE (REFER TO LANDSCAPE PLANS FOR DETAIL)
-  TREE TO BE REMOVED
-  ROOT PRUNING
-  INLET PROTECTION/EROSION CONTROL
-  FLOATING TURBIDITY BARRIER
-  LIMITS OF CLEARING
-  EXISTING PAVEMENT/SIDEWALK TO BE REMOVED



NO.	BY	DATE	DESCRIPTION

REVISIONS

URS URS Corporation Southern
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 Tampa, Florida 33607 (813) 285-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

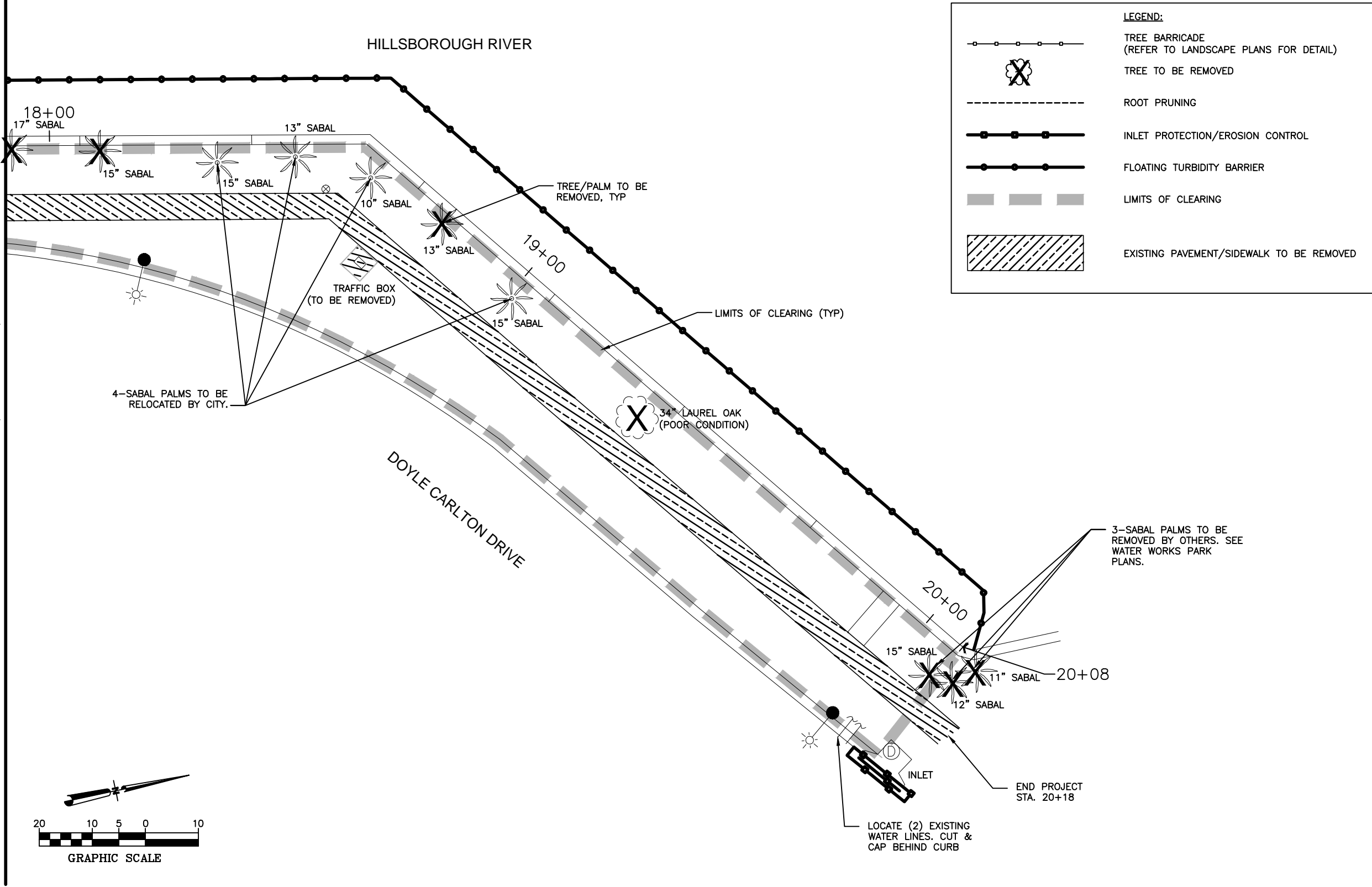
TREE PROTECTION & SITE DEMOLITION PLAN

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 Registered Professional
 43423
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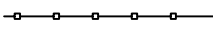

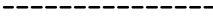



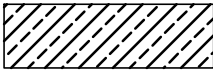
C126

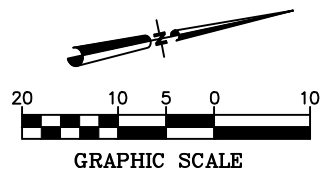
Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C127 TREE PROTECTION.dwg Last Modified: Aug 27, 2014 - 1:55pm Plotted on: Sep 11, 2014 - 11:40am by jmc_center

MATCHLINE (SHEET C126)



LEGEND:

-  TREE BARRICADE (REFER TO LANDSCAPE PLANS FOR DETAIL)
-  TREE TO BE REMOVED
-  ROOT PRUNING
-  INLET PROTECTION/EROSION CONTROL
-  FLOATING TURBIDITY BARRIER
-  LIMITS OF CLEARING
-  EXISTING PAVEMENT/SIDEWALK TO BE REMOVED



NO.	BY	DATE	DESCRIPTION

REVISIONS

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 7650 W. Courtney Campbell Cswy.
 Tampa, Florida 33607 (813) 286-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

TREE PROTECTION & SITE DEMOLITION PLAN

DENNIS W. SYRJA, PE
 Registered Professional
 43423
 FL Reg No. Sign Date print date

C127

ROOT PRUNING/TREE BARRICADE NOTES:

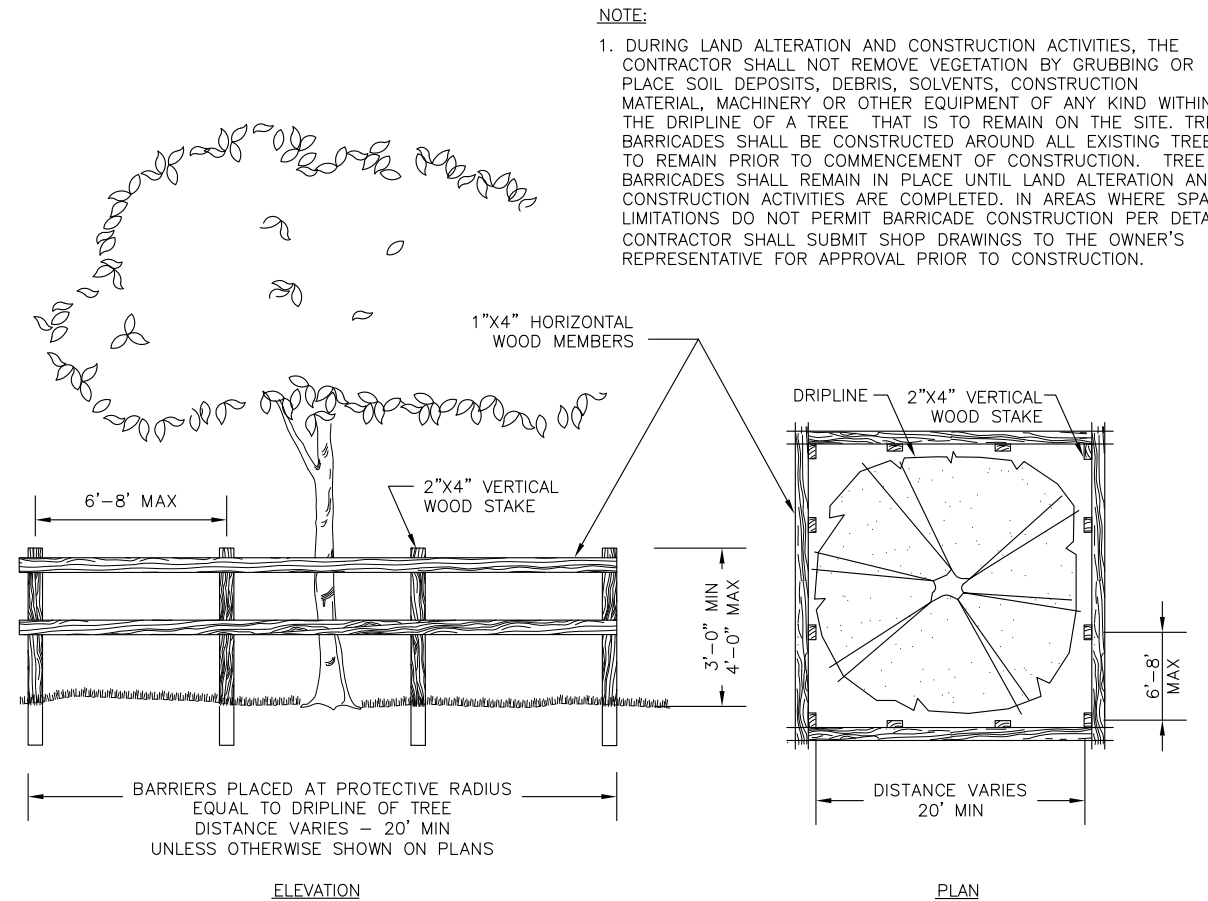
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE CITY OF TAMPA'S LAND DEVELOPMENT CODE (LDC), CHAPTER 13 AND CHAPTER 27, WHICH PERTAIN TO LANDSCAPING, TREE PROTECTION/REMOVAL AND SITE CLEARING.
- PRIOR TO COMMENCEMENT OF SITE DEMOLITION AND CLEARING OR OTHER CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL COORDINATE WITH THE CITY OF TAMPA TO FACILITATE THE CITY'S RETRIEVAL AND RELOCATION OF SELECTED TREES, PALMS AND SHRUBS FROM THE PROJECT SITE. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THIRTY (30) DAYS ADVANCE NOTICE OF ANY SCHEDULED SITE DEMOLITION ACTIVITIES TO KARLA PRICE, CITY PARKS AND RECREATION DEPARTMENT; (813) 274-5134. ANY PLANT MATERIAL TO BE RELOCATED SHALL BE IDENTIFIED BY SURVEY FLAGGING AND PROTECTED UNTIL RELOCATED BY THE CITY. CONTRACTOR SHALL IDENTIFY TREES TO BE PRESERVED AND THOSE TO BE REMOVED. TREES TO BE REMOVED SHALL BE CLEARLY IDENTIFIED BY SURVEY FLAGGING A MINIMUM OF 72 HOURS PRIOR TO REMOVAL.
- CONTRACTOR SHALL PROTECT TREES TO BE PRESERVED FROM DAMAGE BY PROVIDING TREE BARRICADES ERECTED PRIOR TO SITE CLEARING OR OTHER CONSTRUCTION ACTIVITIES, INCLUDING ROOT PRUNING. TREE BARRICADES SHALL BE INSPECTED BY OWNER'S REPRESENTATIVE. CONTRACTOR SHALL PROVIDE 72 HOURS ADVANCE NOTICE TO OWNER'S REPRESENTATIVE AND PROJECT CERTIFIED ARBORIST TO SCHEDULE AN INSPECTION OF BARRICADES AND ROOT PRUNING. DO NOT ROOT PRUNE OR INSTALL TREE BARRICADES BEYOND THE PROJECT LIMITS.
- TREE BARRICADES WILL REMAIN THROUGHOUT THE DURATION OF PROJECT CONSTRUCTION. CONTRACTOR SHALL MONITOR THE CONDITION OF THE BARRICADES DAILY AND REPAIR ANY BREACHES IMMEDIATELY.
- CONTRACTOR SHALL PROTECT THE ROOT SYSTEMS OF TREES TO BE PRESERVED. CONSTRUCTION MATERIALS, FILL, DEBRIS, EXCAVATED MATERIALS AND CHEMICALS SHALL NOT BE STORED WITHIN THE TREE BARRICADE AREAS. EQUIPMENT SHALL NOT BE PARKED NOR OPERATED WITHIN BARRICADES UNLESS EXPRESSLY PERMITTED FOR IRRIGATION PIPE OR ELECTRICAL CONDUIT INSTALLATION. HAND EXCAVATE IRRIGATION TRENCHES OR TUNNEL UNDER EXISTING ROOTS OF PROTECTED TREES AND GRAND TREES.
- TREE BARRICADES MAY BE TEMPORARILY REMOVED TO ALLOW FOR LIMITED WORK INCLUDING INSTALLATION OF SITE LIGHTING FIXTURES OR IRRIGATION PIPING FOR IRRIGATION OF SHRUB BEDS LOCATED WITHIN TREE BARRICADES. EQUIPMENT ACCESS SHALL BE LIMITED TO THOSE AREAS WITHIN THE BARRICADES THAT ARE ABSOLUTELY ESSENTIAL TO COMPLETE THE WORK AND MUST BE APPROVED BY THE PROJECT CERTIFIED ARBORIST. BARRICADES SHALL BE REINSTALLED IMMEDIATELY FOLLOWING COMPLETION OF THE WORK.
- ALL TREE TRIMMING, ROOT PRUNING, FERTILIZER AND FUNGICIDE APPLICATIONS SHALL BE PERFORMED BY AN ISA CERTIFIED ARBORIST AND STATE LICENSED OPERATOR IN ACCORDANCE WITH FLORIDA STATUTES AND ANSI A300 PARTS 1-4, LATEST EDITIONS.
- THE CONTRACTOR SHALL EMPLOY AN ISA CERTIFIED ARBORIST TO PERFORM OR SUPERVISE ROOT PRUNING, TREE TRIMMING AND APPLICATION OF FERTILIZER AND FUNGICIDE. SUBMIT THE CERTIFIED ARBORIST'S INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFICATION TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PERFORMING THE WORK.
- CONTRACTOR SHALL LOCATE AND MARK ROOT-PRUNING LOCATIONS FOR APPROVAL BY THE OWNER'S REPRESENTATIVE AND PROJECT CERTIFIED ARBORIST PRIOR TO TRENCHING. CONTRACTOR SHALL ROOT PRUNE TREES TO BE PRESERVED AS LOCATED ON THE PLANS. ROOT PRUNING SHALL OCCUR AT LOCATIONS SHOWN ON THE PLAN IN A TRENCH 12 INCHES IN WIDTH MINIMUM AND 18 INCHES IN DEPTH. CONTRACTOR SHALL HAND PRUNE ANY ROOTS OVER 1 INCH IN DIAMETER ENCOUNTERED DURING SITE GRADING DEEPER THAN 14 INCHES TO THE LIMIT OF CUT. NO ROOT PRUNING SHALL OCCUR OUTSIDE OF PROJECT LIMITS.
- A VERMEER ROOT-PRUNING MACHINE (OR APPROVED EQUAL) SHALL BE USED TO CUT THROUGH THE ROOTS. ALL ROOTS SHALL BE CUT CLEANLY WITH NO FRAYED OR JAGGED CUTS ALLOWED.
- FOLLOWING COMPLETION OF ROOT PRUNING, CONTRACTOR SHALL BACKFILL THE TRENCH WITH NATIVE SOILS. BACKFILLING SHALL OCCUR AT THE END OF EACH DAY. A SOIL DRENCH FUNGICIDE SHALL BE APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE TO THE TRENCH AREAS WITHIN FIVE DAYS FOLLOWING COMPLETION OF ROOT PRUNING.

CITY OF TAMPA-TREE TABLES FOR CREDIT AND DEBIT

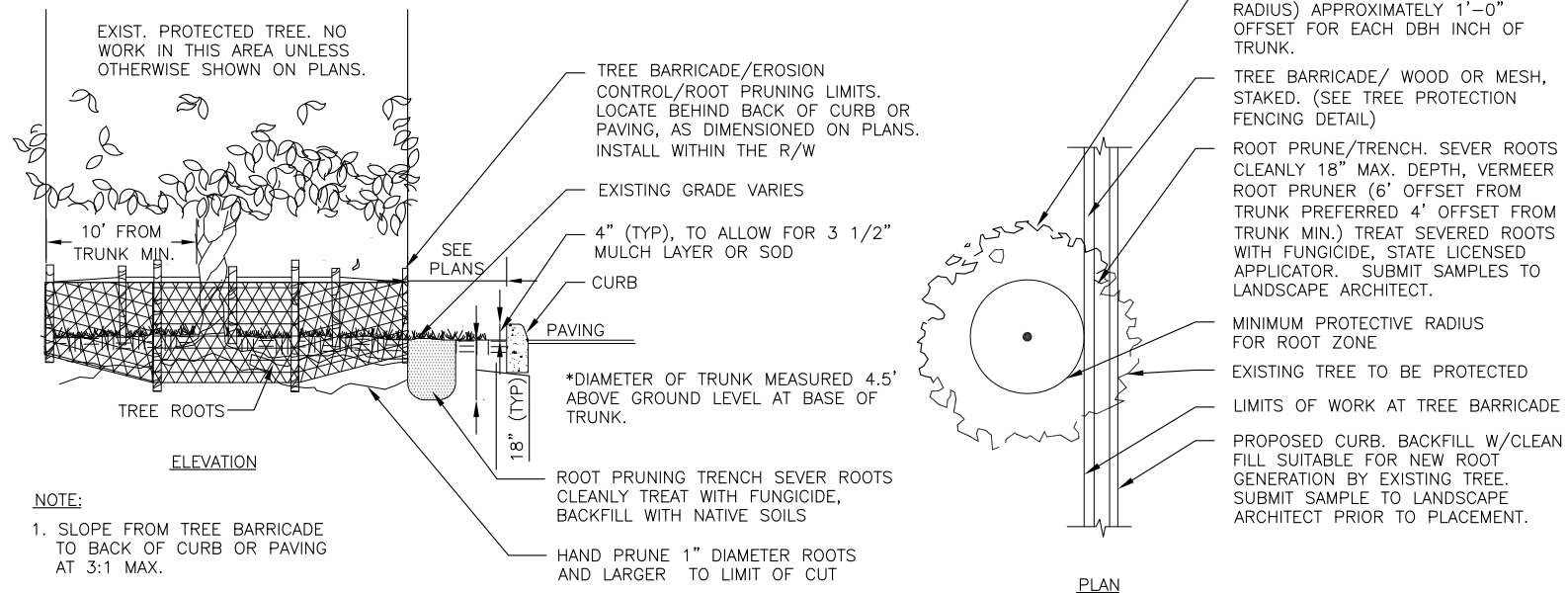
DIAMETER (INCHES)	NO. RETAINED ON SITE	MULTIPLIER FOR CREDIT	CREDIT
5" TO 7" DBH	0	0	0
8" TO 12" DBH	0	1	0
13" TO 19" DBH	1	2	2
20" TO 29" DBH	1	4	4
30" OR MORE	2	10	20
ALL PALMS	27	1	27
TOTAL	31		53
DIAMETER (INCHES)	NO. REMOVED ON SITE	MULTIPLIER FOR DEBIT	DEBIT
5" TO 7" DBH	0	0	0
8" TO 12" DBH	1	1	1
13" TO 19" DBH	3	2	6
20" TO 29" DBH	2	4	8
30" OR MORE	2 (30", 34")	INCH PER INCH	64
PALMS (REMOVED)	23	1	23
PALMS (RELOCATED)	33	1	33
TOTAL	64		135
PROPOSED TREES/PALMS (INCH PER INCH)			
PROPOSED 3" CALIPER TREES	11 TREES @ 3" PER TREE		33
PROPOSED 4" CALIPER TREES	7 TREES @ 4" PER TREE		28
PROPOSED PALMS	84 (1:1)		84
TOTAL INCHES PROVIDED			145

TREE TABLE NOTES:

- THERE ARE THIRTY-THREE (33) EXISTING PALMS IDENTIFIED ON THE TREE PROTECTION AND SITE DEMOLITION PLAN SHEETS FOR RELOCATION BY THE CITY OF TAMPA. THESE PALMS ARE INCLUDED IN THE TABLE AS DEBIT FOR THE NUMBER OF PALMS REMOVED FROM THE SITE.
- THERE ARE A TOTAL OF SIX (6) EXISTING JACARANDA AND FIVE (5) EXISTING TABEBUIA TREES IDENTIFIED ON THE TREE PROTECTION AND SITE DEMOLITION PLAN SHEETS FOR RELOCATION BY THE CITY OF TAMPA. THESE TREES ARE NOT REFLECTED IN THE TREE TABLE SINCE THEY ARE LESS THAN 5" CALIPER.
- THERE IS AN EXISTING 34" LAUREL OAK IDENTIFIED ON THE TREE PROTECTION AND SITE DEMOLITION PLAN SHEET C127 FOR REMOVAL. THE TREE IS IN POOR CONDITION. IT HAS BEEN INCLUDED IN THE TABLE, PER THE CITY OF TAMPA, AS A DEBIT FOR THE NUMBER OF TREES 30" AND LARGER REMOVED FROM THE SITE.



1 TREE PROTECTION FENCING



2 ROOT PRUNING DETAIL

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Tree\CD01 TRD0 TREE PRO.dwg Last Modified: Jun 30, 2014 - 2:25pm Plotted on: Jun 30, 2014 - 2:25pm by jnn_carter

NO.	BY	DATE	DESCRIPTION

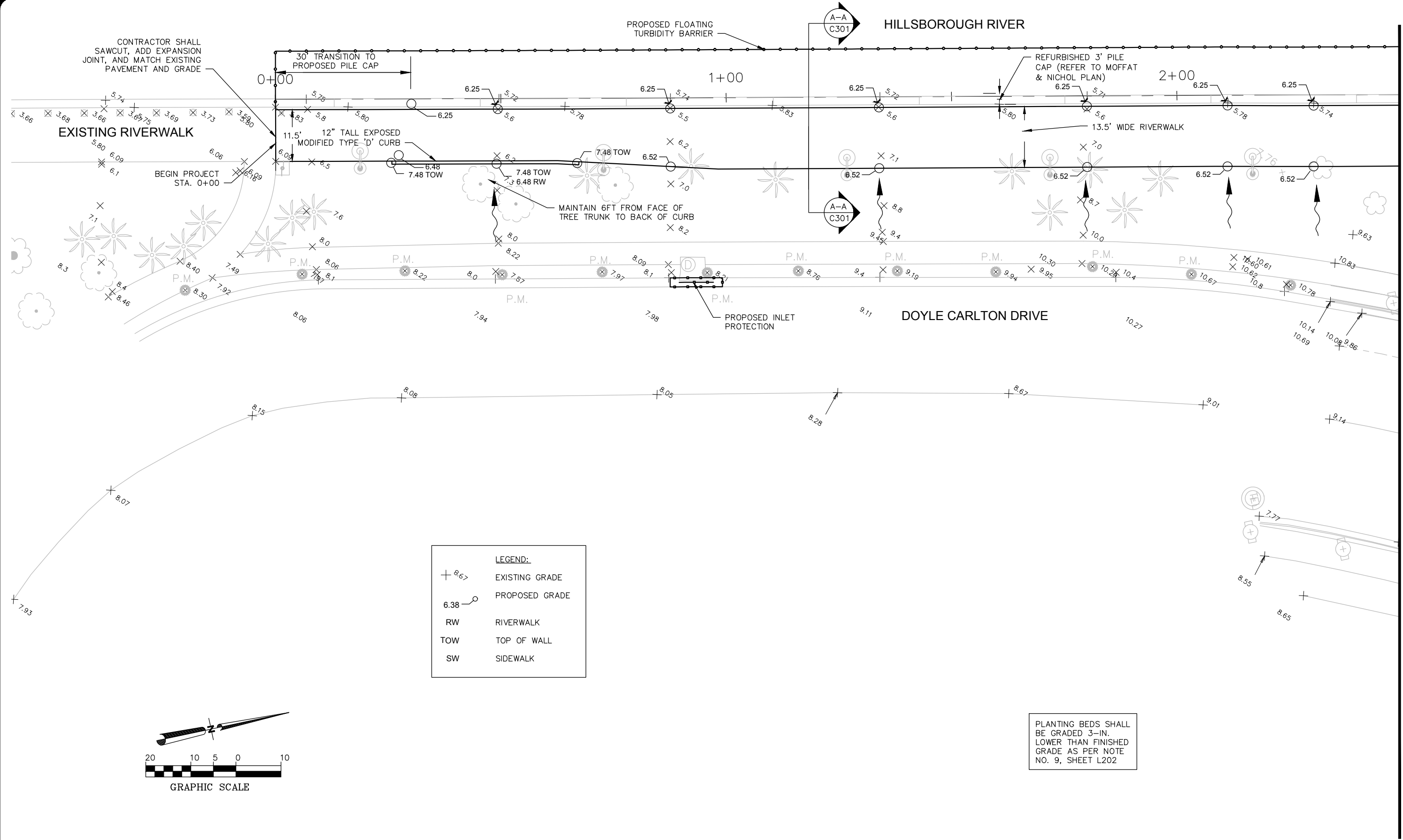
URS URS Corporation Southern
 7650 W. Courtney Campbell Cswy.,
 Tampa, Florida 33607 (813) 285-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

TREE PROTECTION & SITE DEMOLITION DETAILS

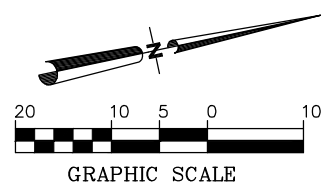
C128
 DENNIS W. SYRJIA, PE
 Registered Professional
 43423
 FL Reg No. Sign Date print date

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C301-TRWC GRD.dwg Last Modified: Jul 09, 2014 - 10:55am Plotted on: Jul 09, 2014 - 10:55am by jym_corder



LEGEND:

+ 8.67	EXISTING GRADE
6.38 —○	PROPOSED GRADE
RW	RIVERWALK
TOW	TOP OF WALL
SW	SIDEWALK



PLANTING BEDS SHALL BE GRADED 3-IN. LOWER THAN FINISHED GRADE AS PER NOTE NO. 9, SHEET L202

MATCHLINE (SHEET C132)

DRWN:	
DSGN:	
CHND:	
APVD:	
DATE:	07/11/14
OB #:	12011325

NO.	BY	DATE	DESCRIPTION



TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

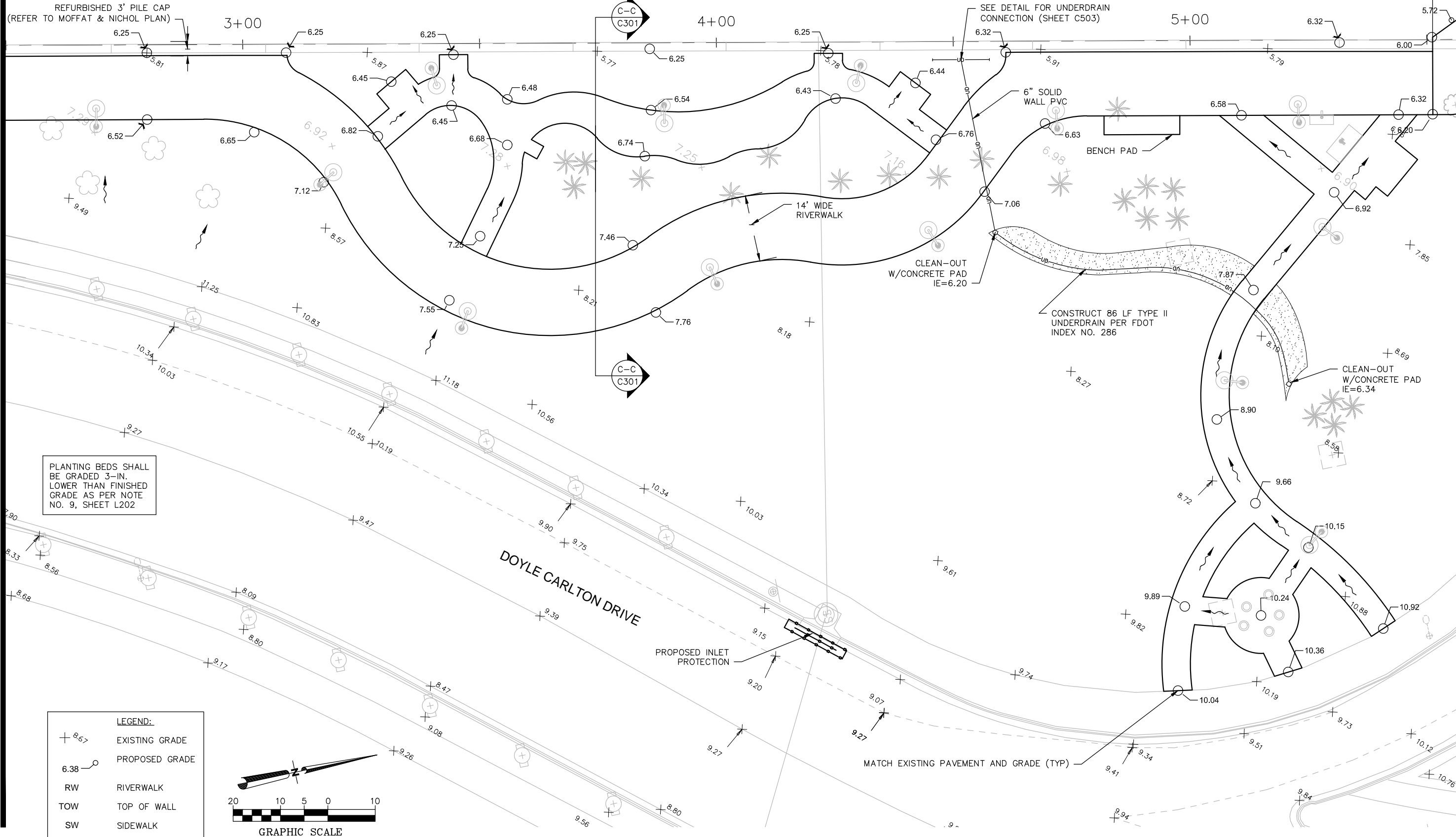
GRADING PLAN

DENNIS W. SYRJIA, PE
 Registered Professional
 43423
 FL Reg No. Sign Date print date

C131

HILLSBOROUGH RIVER

PROPOSED CANTILEVER SECTION (REFER TO STRUCTURAL PLANS FOR DETAIL)

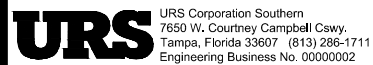


MATCHLINE (SHEET C131)

MATCHLINE (SHEET C133)

Drawing Name: S:\Projects\Tampa Riverwalk\Doyle Carlton\Production\DWG\C131-TBDC GRD.dwg Last Modified: Aug 27, 2014 - 3:10pm Plotted on: Sep 11, 2014 - 11:42am by lym_center

NO.	BY	DATE	DESCRIPTION



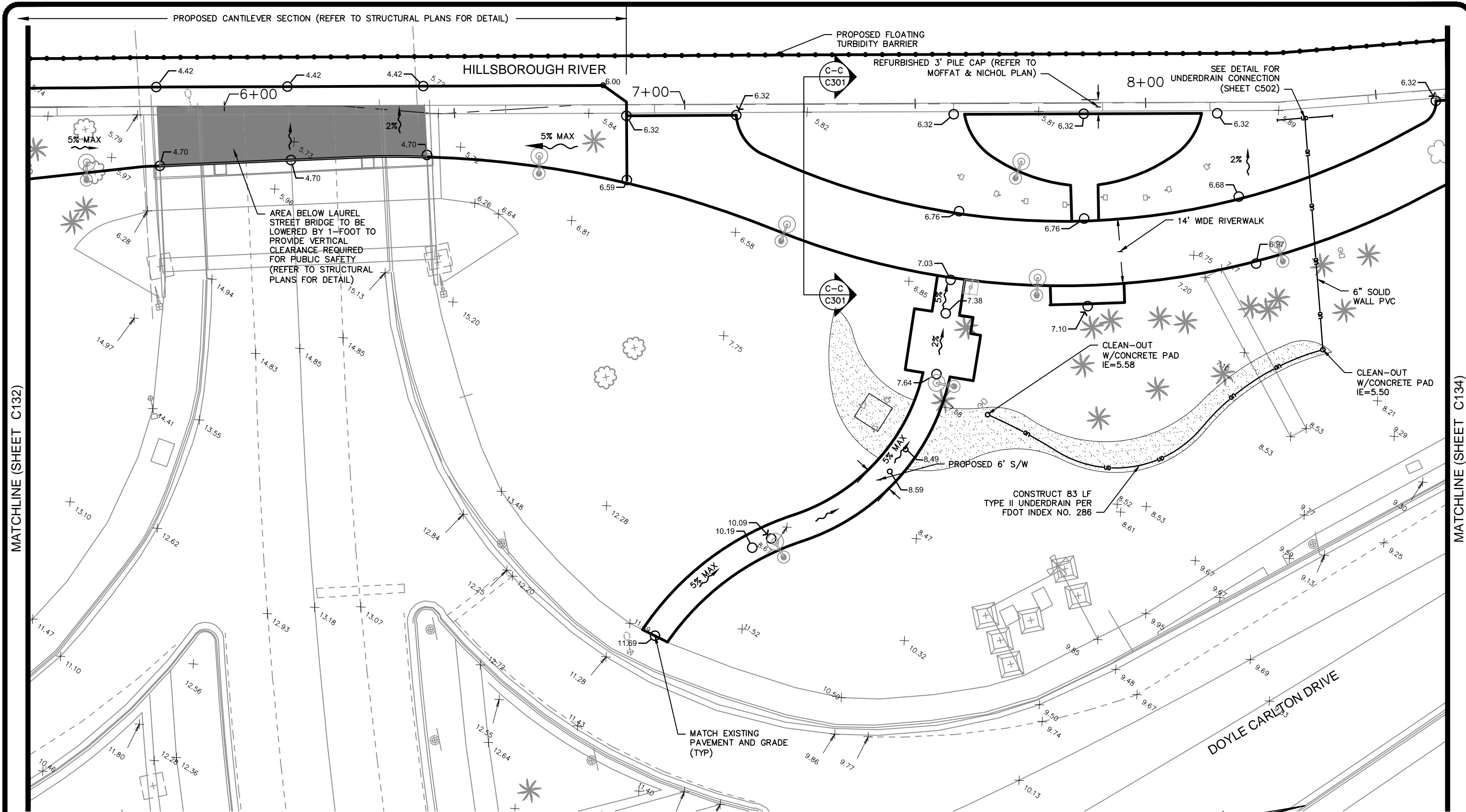
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

GRADING PLAN

DENNIS W. SYRJA, PE
 Registered Professional
 43423
 FL Reg No. Sign Date print date

C132

Drawing Name: S:\Projects\Tampa Riverwalk\Doyle Carlton\Production\DWG\C131-TRWC GRADING.dwg Last Modified: Sep 11, 2014 - 10:46am Plotted on: Nov 04, 2014 - 8:11am by jym_center

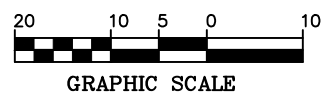


MATCHLINE (SHEET C132)

MATCHLINE (SHEET C134)

LEGEND:		RW	RIVERWALK
+ 8.67	EXISTING GRADE	TOW	TOP OF WALL
6.38	PROPOSED GRADE	SW	SIDEWALK

PLANTING BEDS SHALL BE GRADED 3" LOWER THAN FINISHED GRADE AS PER NOTE NO. 9, SHEET L202



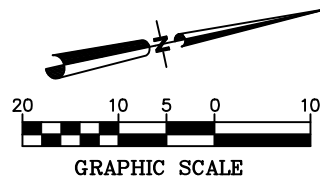
NO.	BY	DATE	DESCRIPTION

URS URS Corporation Southern
7650 W. Courtney Campbell Causeway
Tampa, Florida 33607 (813) 286-1711
Engineering Business No. 00000002

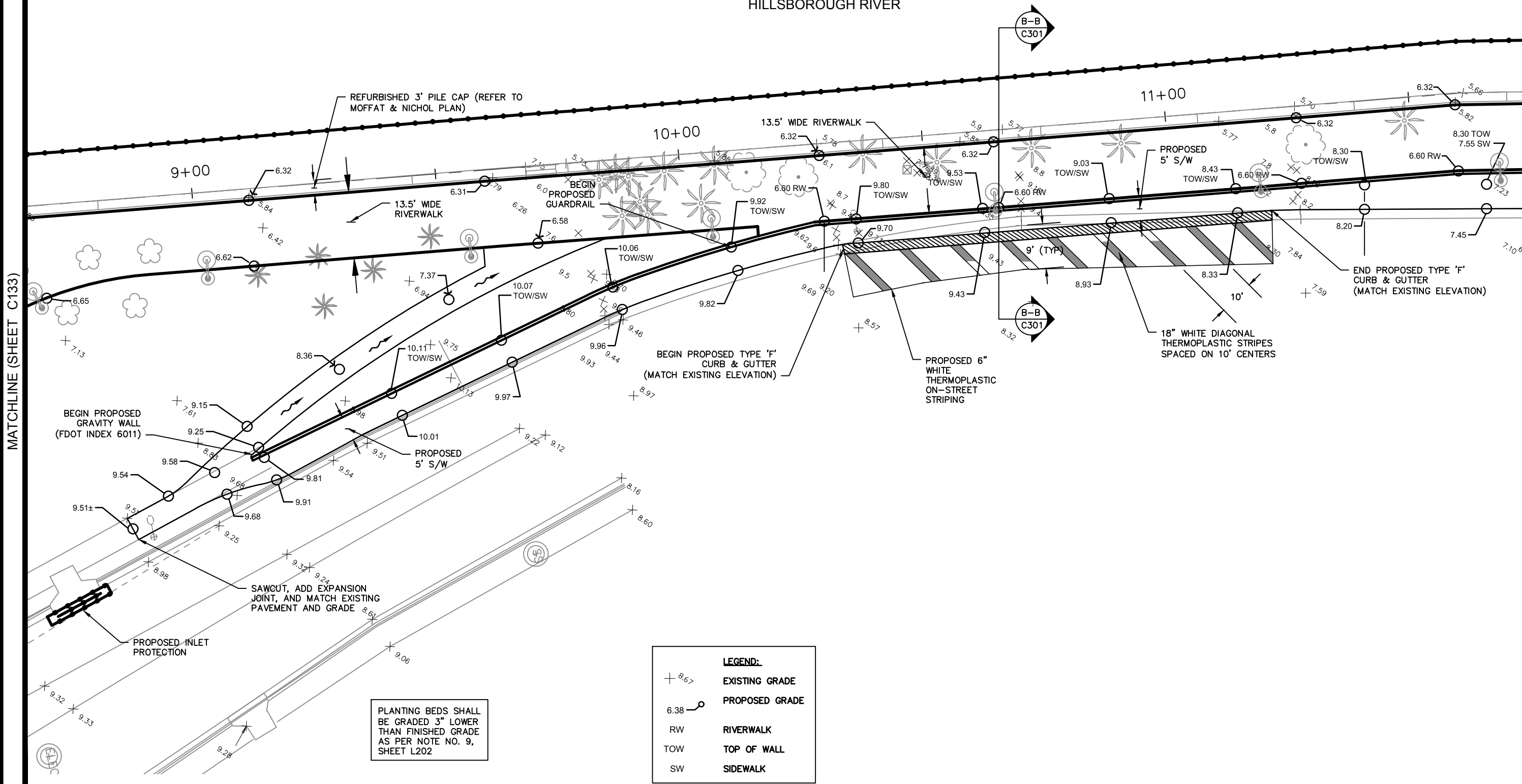
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

GRADING PLAN

C133
DENNIS W. SYRJIA, PE
Registered Professional
43423
FL Reg No. Sign Date print date



HILLSBOROUGH RIVER



MATCHLINE (SHEET C133)

MATCHLINE (SHEET C135)

PLANTING BEDS SHALL BE GRADED 3" LOWER THAN FINISHED GRADE AS PER NOTE NO. 9, SHEET L202

LEGEND:

+ 8.67	EXISTING GRADE
6.38	PROPOSED GRADE
RW	RIVERWALK
TOW	TOP OF WALL
SW	SIDEWALK

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C131-TRWC GRD\DWG Last Modified: Aug 26, 2014 - 10:05am Plotted on: Aug 27, 2014 - 2:23pm by lym_center

NO.	BY	DATE	DESCRIPTION

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 Tampa, Florida 33607 (813) 286-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

GRADING PLAN

DENNIS W. SYRJA, PE
 Registered Professional
 43423
 FL Reg No. Sign Date

C134
 print date

I-275 NORTH

I-275 SOUTH

HILLSBOROUGH RIVER

MATCHLINE (SHEET C134)

MATCHLINE (SHEET C136)

PROPOSED 80 SF CANTILEVER SECTION (28 LF SHORELINE) REFER TO STRUCTURAL PLANS FOR DETAIL

PROPOSED CANTILEVER SECTION (REFER TO STRUCTURAL PLANS FOR DETAIL)

PROPOSED FLOATING TURBIDITY BARRIER

REFER TO SHEET C135A FOR BLOW-UP DETAIL A

14+00

13+00

12+00

11.5' WIDE RIVERWALK

PROPOSED 10' S/W

REFER TO SHEET C135B FOR BLOW-UP DETAIL B

BEGIN PROPOSED GRAVITY WALL AND GUARDRAIL (FDOT INDEX 6011)

END PROPOSED GRAVITY WALL AND GUARDRAIL

END PROPOSED GRAVITY WALL (FDOT INDEX 6011)



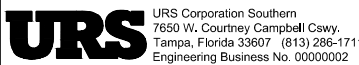
LEGEND:

+ 6.5	EXISTING GRADE
6.38	PROPOSED GRADE
RW	RIVERWALK
TOW	TOP OF WALL
SW	SIDEWALK

PLANTING BEDS SHALL BE GRADED 3" LOWER THAN FINISHED GRADE AS PER NOTE NO. 9, SHEET L202

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C131-TRWC GRD\DWG Lst Modified: Aug 26, 2014 - 9:15am by jym_confer

NO.	BY	DATE	DESCRIPTION



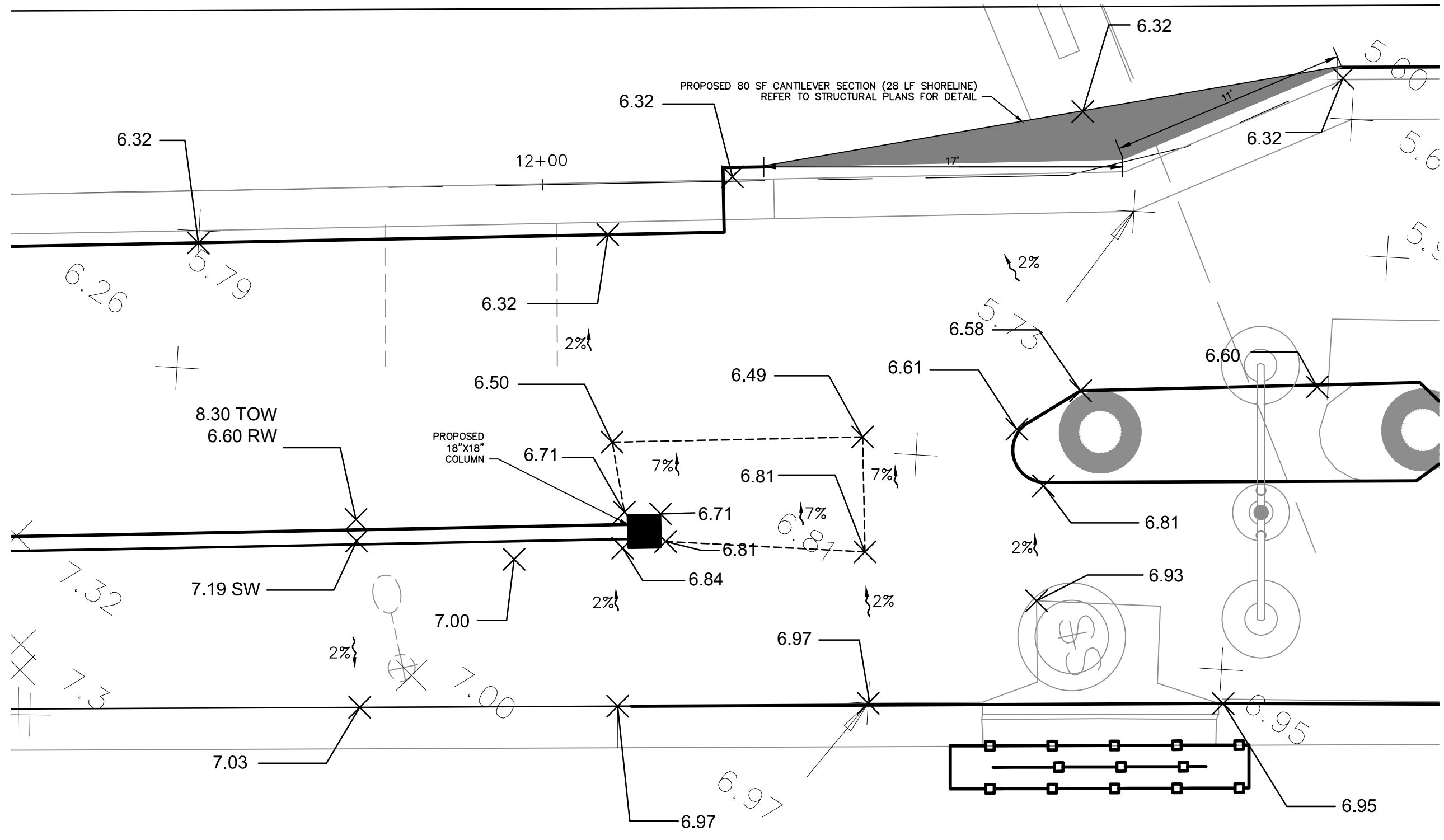
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT

FOR CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

GRADING PLAN

DENNIS W. SYRJIA, PE
Registered Professional
43423
FL Reg No. Sign Date

C135



PROPOSED 80 SF CANTILEVER SECTION (28 LF SHORELINE)
REFER TO STRUCTURAL PLANS FOR DETAIL

PROPOSED 18"X18" COLUMN

8.30 TOW
6.60 RW

7.19 SW

BLOW-UP DETAIL A
SCALE 1"=5'

LEGEND:

+ 8.67	EXISTING GRADE
6.38	PROPOSED GRADE
RW	RIVERWALK
TOW	TOP OF WALL
SW	SIDEWALK

PLANTING BEDS SHALL BE GRADED 3" LOWER THAN FINISHED GRADE AS PER NOTE NO. 9, SHEET L202

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C301-TBDC GRD\DWG L202.dwg Last Modified: Aug 26, 2014 - 9:45am by jym_cofar

NO.	BY	DATE	DESCRIPTION

URS URS Corporation Southern
7650 W. Courtney Campbell Causeway
Tampa, Florida 33607 (813) 288-1711
Engineering Business No. 00000002

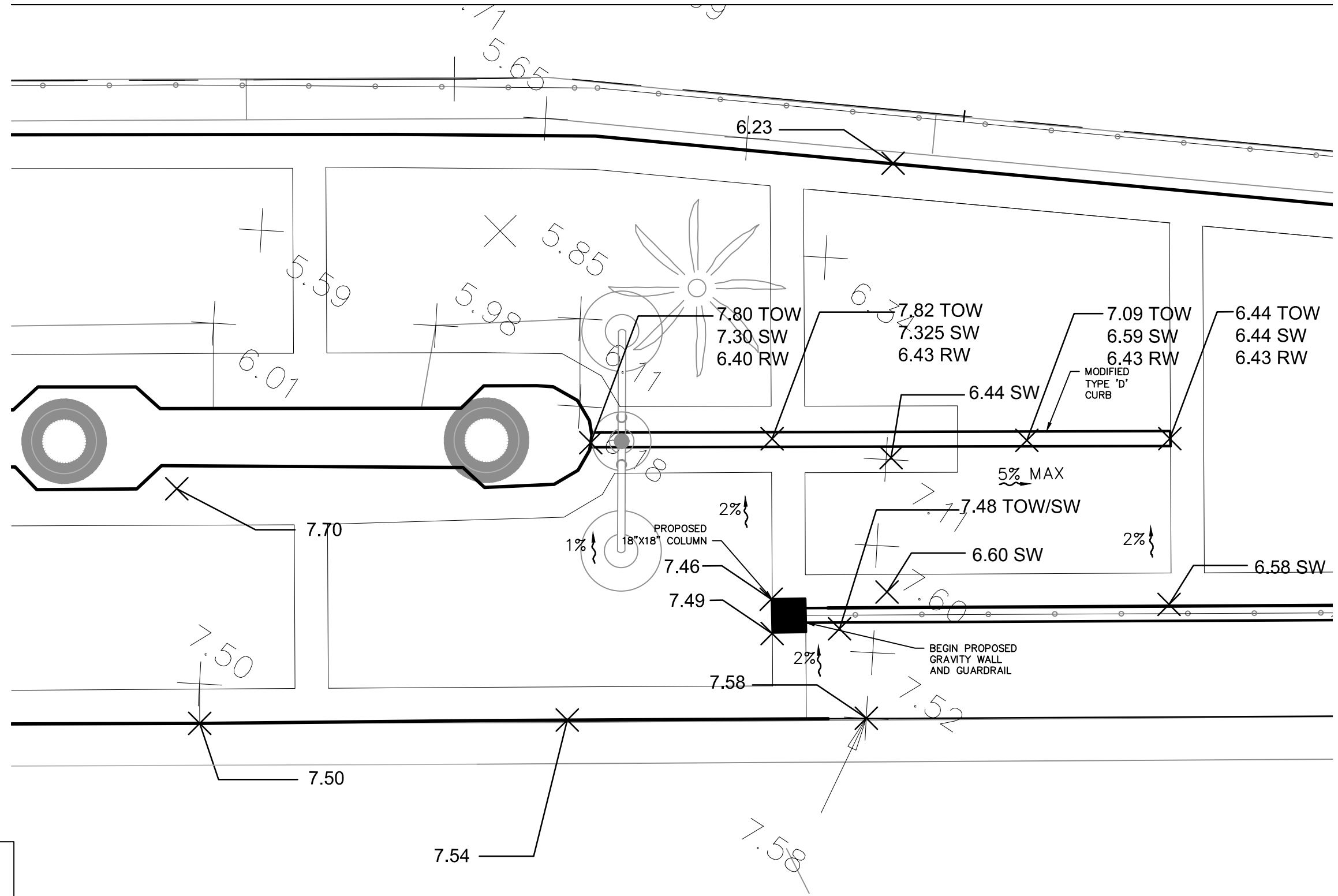
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

GRADING PLAN

C135A

DENNIS W. SYRJIA, PE
Registered Professional
43423
FL Reg No. Sign Date print date

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C301-TBDC GRD\DWG L202 Modified: Aug 26, 2014 - 9:45am Plotted on: Aug 26, 2014 - 9:45am by jym_confer



BLOW-UP DETAIL B
SCALE 1"=5'

LEGEND:

+ 8.62	EXISTING GRADE
6.38	PROPOSED GRADE
RW	RIVERWALK
TOW	TOP OF WALL
SW	SIDEWALK

PLANTING BEDS SHALL BE GRADED 3" LOWER THAN FINISHED GRADE AS PER NOTE NO. 9, SHEET L202

NO.	BY	DATE	DESCRIPTION

URS URS Corporation Southern
7650 W. Courtney Campbell Causeway
Tampa, Florida 33607 (813) 256-1711
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TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

GRADING PLAN

DENNIS W. SYRJJA, PE
Registered Professional
43423
FL Reg No. Sign Date

C135B

HILLSBOROUGH RIVER

PROPOSED FLOATING
TURBIDITY BARRIER

15+00

EXISTING SEA WALL

16+00

REFURBISHED 3' PILE
CAP (REFER TO MOFFAT
& NICHOL PLAN) 6.22

17+00

6.22

0+00

PROPOSED INLET
PROTECTION
END PROPOSED
GRAVITY WALL.
END PROPOSED
GUARDRAIL
BEGIN PROPOSED
VEHICLE BARRIER WALL
(SEE SHEET C138)
10.77 TOW

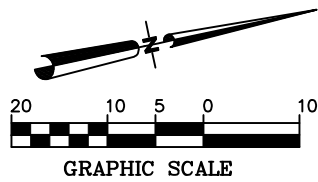
EXISTING 3' S/W
(TO BE REMOVED)

PROPOSED SW
(WIDTH VARIES)

DOYLE CARLTON DRIVE

MATCHLINE (SHEET C135)

MATCHLINE (SHEET C137)



PLANTING BEDS SHALL
BE GRADED 3" LOWER
THAN FINISHED GRADE
AS PER NOTE NO. 9,
SHEET L202

LEGEND:

+ 8.67	EXISTING GRADE
6.38	PROPOSED GRADE
RW	RIVERWALK
TOW	TOP OF WALL
SW	SIDEWALK

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT

FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

GRADING PLAN

C136

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C131-TBDC GRD0.dwg Last Modified: Aug 26, 2014 - 9:47am Plotted on: Aug 26, 2014 - 9:47am by jym_cofar

NO.	BY	DATE	DESCRIPTION

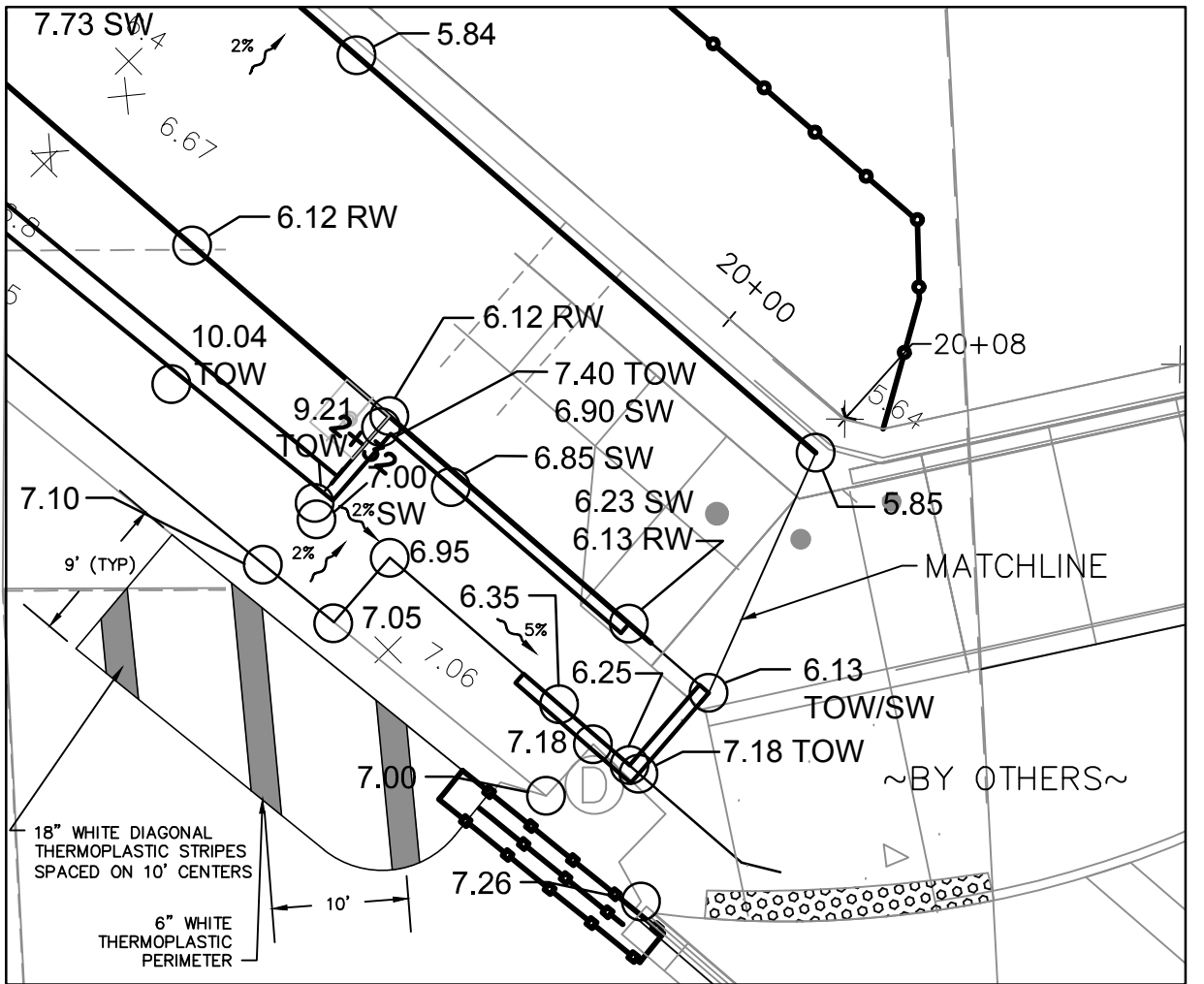
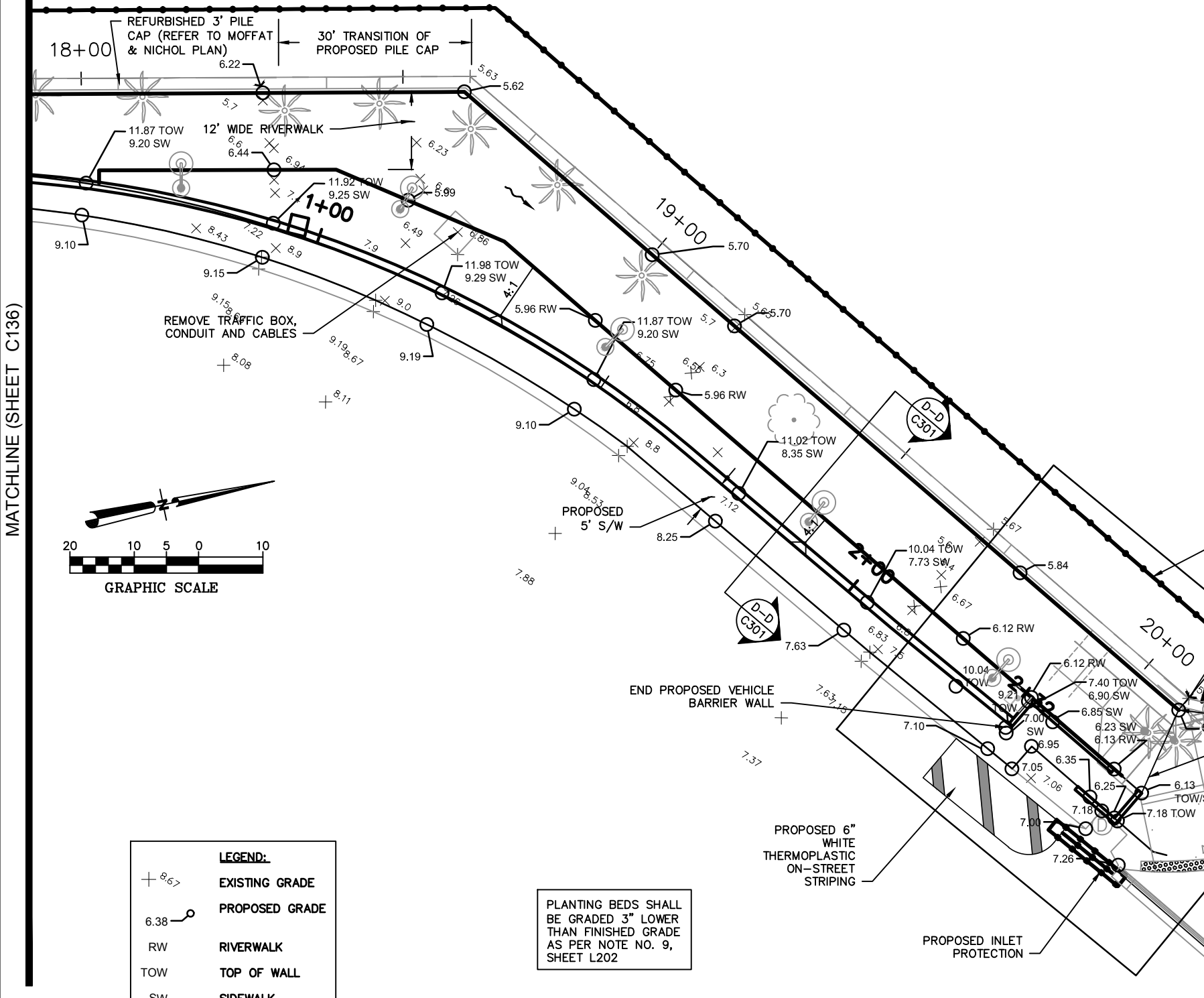
REVISIONS

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Engineering Business No. 00000002

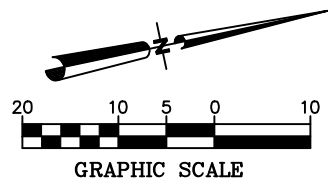
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Registered Professional
43423
FL Reg No. Sign Date

print date

HILLSBOROUGH RIVER



BLOW-UP DETAIL C
SCALE 1"=10'



LEGEND:

+ 8.67	EXISTING GRADE
6.38	PROPOSED GRADE
RW	RIVERWALK
TOW	TOP OF WALL
SW	SIDEWALK

PLANTING BEDS SHALL BE GRADED 3" LOWER THAN FINISHED GRADE AS PER NOTE NO. 9, SHEET L202

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C137-TRWC GRD.dwg Last Modified: Aug 26, 2014 - 10:55am Plotted on: Aug 27, 2014 - 3:09pm by lym_center

NO.	BY	DATE	DESCRIPTION

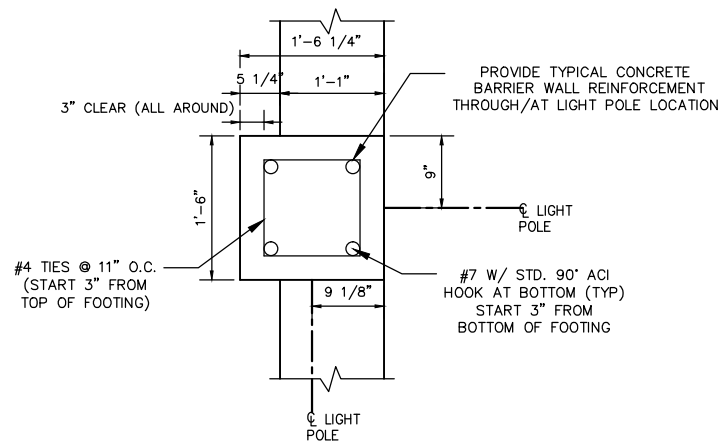
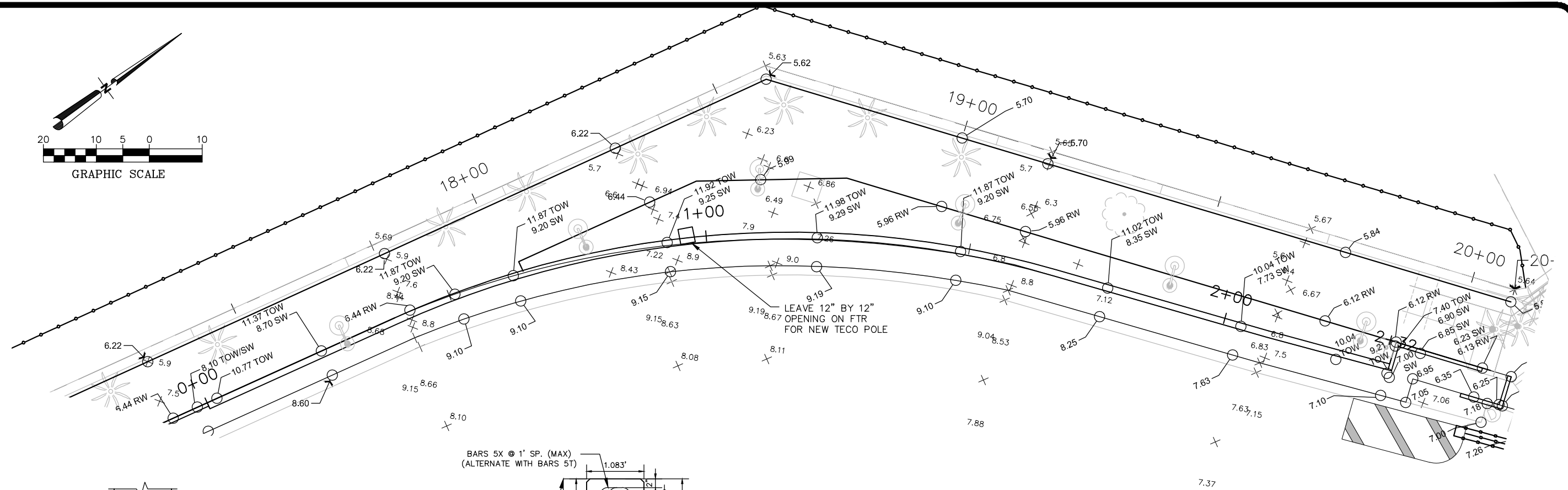
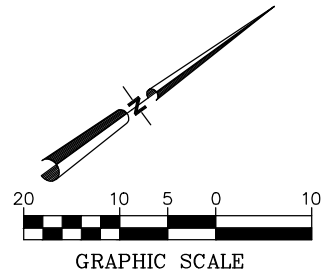


TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

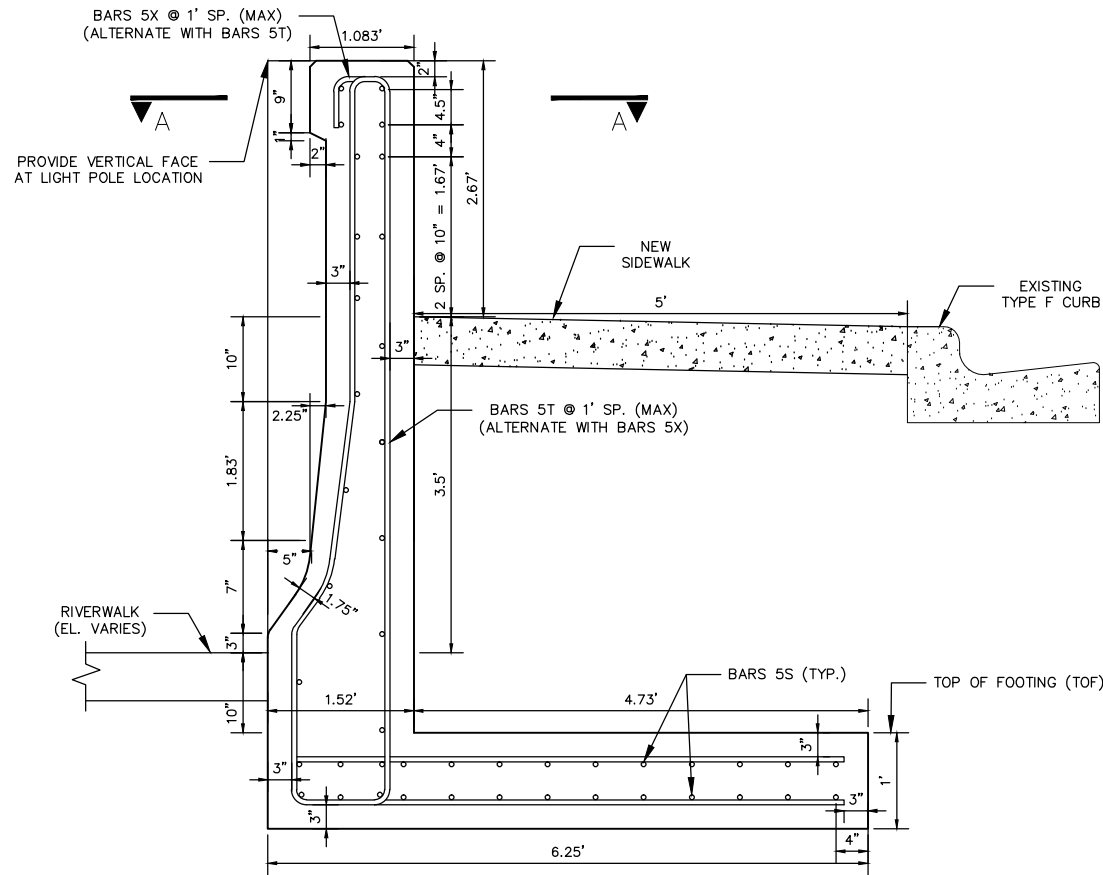
GRADING PLAN

DENNIS W. SYRJJA, PE
Registered Professional
43423
FL Reg. No. Sign Date print date

C137



SECTION A-A
SCALE: 1" = 2'
AT LIGHT POLE LOCATION



VEHICLE BARRIER WALL

MODIFIED FDOT INDEX 410 & 423
SCALE: 1" = 2'

TOP OF FOOTING ELEVATIONS	
STATION	ELEVATION
0+00	5.8'
0+90	5.6'
1+10	5.1'
2+33	5.3'

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C301-TRWC 0802.dwg Last Modified: Aug 27, 2014 - 3:10pm Plotted on: Sep 11, 2014 - 11:44am by lym_center

NO.	BY	DATE	DESCRIPTION

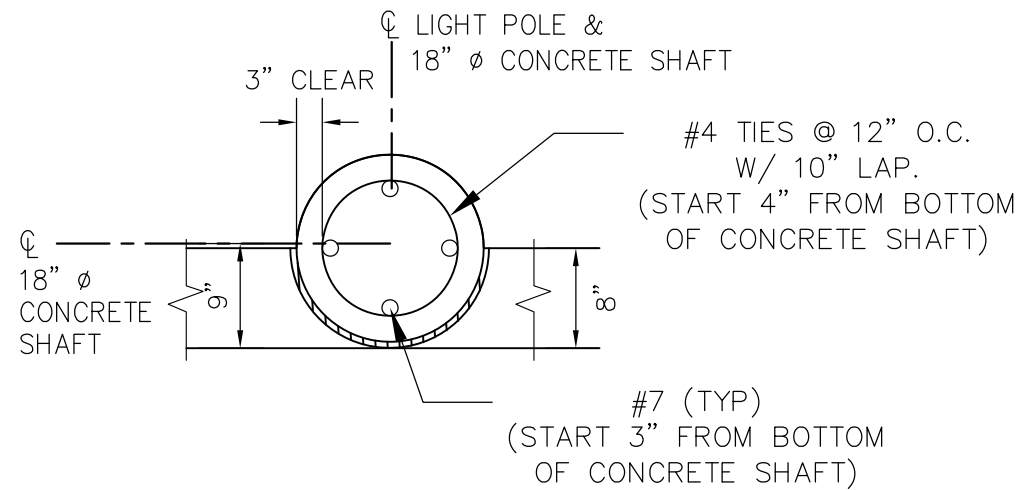


TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

VEHICULAR BARRIER WALL PLAN

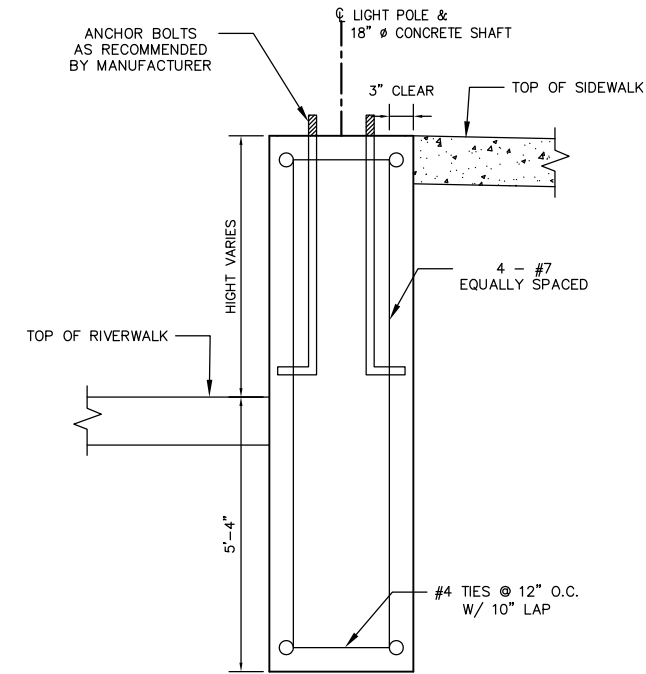
DENNIS W. SYRJJA, PE
Registered Professional
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FL Reg No. Sign Date

C138



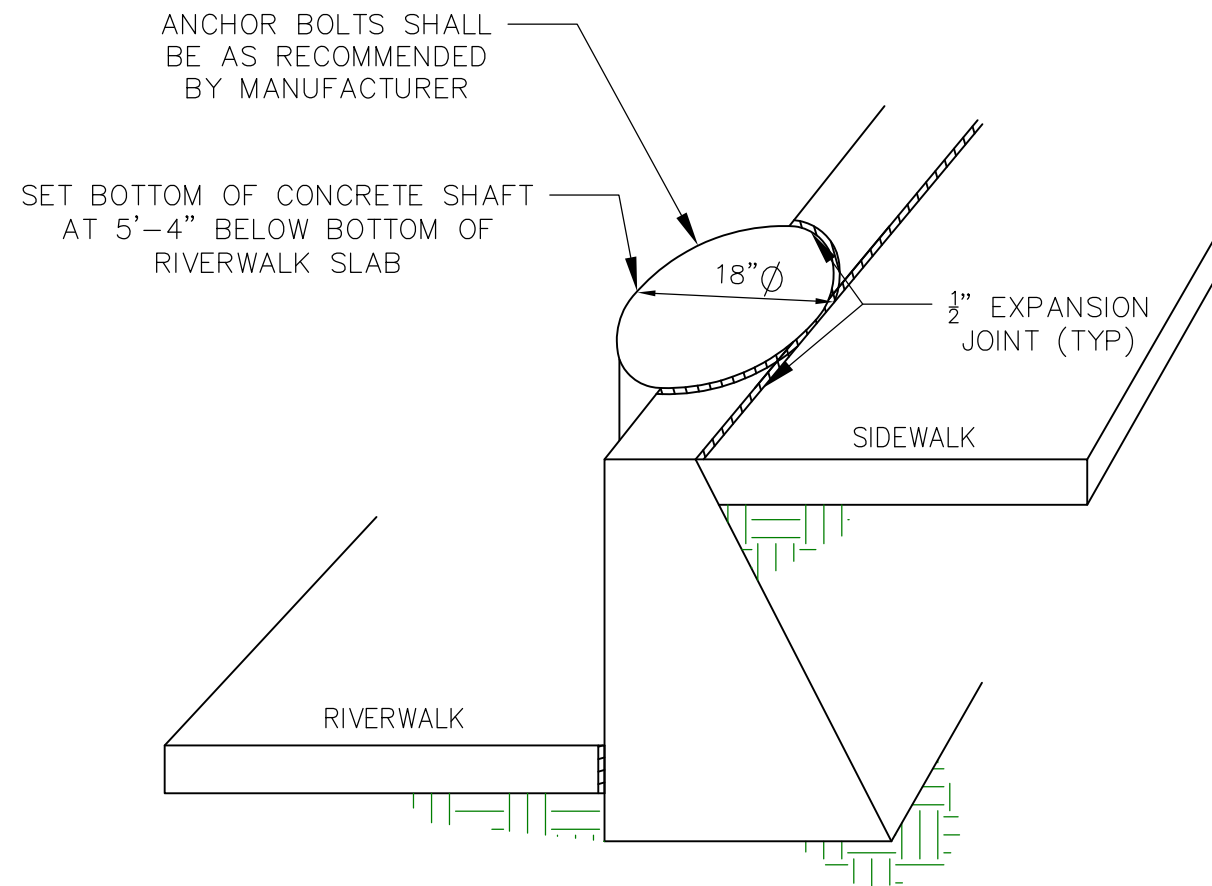
GRAVITY WALL LIGHT POLE PLAN

NTS



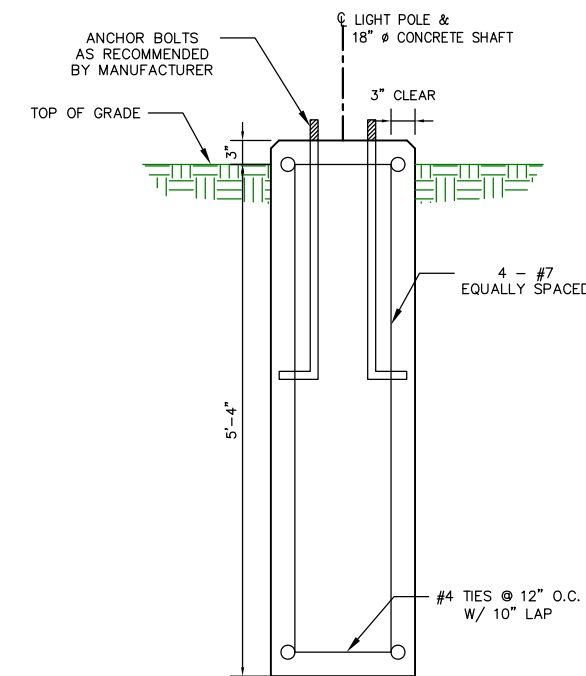
GRAVITY WALL LIGHT POLE PROFILE

NTS



GRAVITY WALL LIGHT POLE DETAIL

NTS



TYPICAL LIGHT POLE PROFILE

NTS

NOTE:
REFER TO E504 AND E505
FOR ELECTRICAL DETAILS

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Drawings\CD01-TRWC 08050.dwg Last Modified: Jun 27, 2014 - 2:13pm Plotted on: Jun 27, 2014 - 2:14pm by jym_carter

NO.	BY	DATE	DESCRIPTION

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7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 286-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

LIGHT POLE DETAIL

DENNIS W. SYRJJA, PE
Registered Professional
43423
FL Reg No. Sign Date print date

C139

0+00

1+00

2+00

PROPOSED 2" CAP/PLUG (RESTRAINED)
STA. 0+68.23
OFFSET=12.129
NORTHING=1315892.2925
EASTING=506129.7179

SAMPLING POINT #1

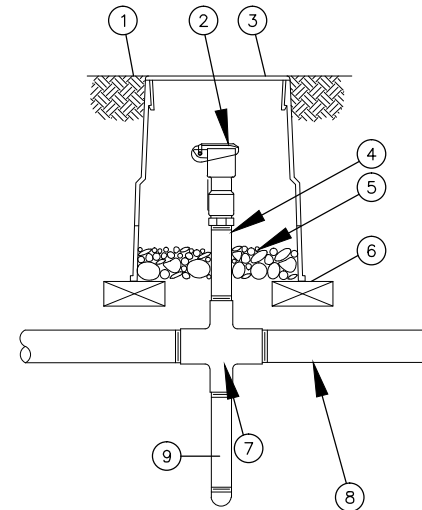
PROPOSED QUICK COUPLING VALVE ASSEMBLY
STA. 0+75.21
OFFSET=12.520
NORTHING=1315899.0618
EASTING=506131.5001

PROPOSED 2" SCH40 PVC
WATER MAIN

PROPOSED 2" GATE VALVE W/BOX
STA. 0+72.22
OFFSET=12.352
NORTHING=1315896.1627
EASTING=506130.7368

PROPOSED QUICK COUPLING VALVE ASSEMBLY
STA. 2+47.51
OFFSET=13.854
N=1316067.6190
E=506167.1554

NOTE:
CONTRACTOR TO PERFORM CHLORINATION AND
BACTERIOLOGICAL SAMPLING PURSUANT TO AGENCY
REQUIREMENTS AND OBTAIN CLEARANCE OF DOMESTIC
WATER SYSTEM (IE: TWO DAYS OF PASSING TESTS
AT EACH SAMPLING LOCATION). COPIES OF ALL
BACTERIOLOGICAL TESTS TO BE SUBMITTED TO OWNER'S
ENGINEER WITHIN 3 DAYS AFTER TESTING.

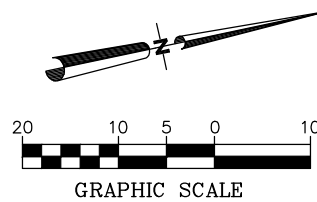


- ① Finished Grade/Top of Mulch
- ② Quick-Coupling Valve: Rain Bird Model 3RC
- ③ Valve Box with Cover: Generic 10" Round, Green
- ④ Galvanized Nipple (Length as required)
- ⑤ 3" Minimum Depth of 3/4" Washed Gravel
- ⑥ Brick (1 of 2)
- ⑦ Galvanized "X" Connector
- ⑧ Galvanized Mainline Pipe (3' in each direction)
- ⑨ Galvanized Nipple, Capped (2' in ground below mainline)

NOTE:
Furnish fittings and piping nominally sized identical to nominal quick coupling valve inlet size.

RAINBIRD QUICK COUPLER VALVE 3RC DETAIL

NTS



MATCHLINE (SHEET C142)

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C142-TRWC UTI QP.dwg Last Modified: Jul 01, 2014 - 9:16am Plotted on: Aug 27, 2014 - 11:47am by lym_carter

NO.	BY	DATE	DESCRIPTION



TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

QUICK COUPLER PLAN

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Registered Professional
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C141

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C142-TRWC UTL QP.dwg Last Modified: Jul 01, 2014 - 9:16am Plotted on: Aug 27, 2014 - 11:45am by lym_center

MATCHLINE (SHEET C141)

MATCHLINE (SHEET C143)

3+00

4+00

5+00

PROPOSED QUICK COUPLING VALVE ASSEMBLY
STA. 5+43.93
OFFSET=8.926
NORTHING=1316359.0528
EASTING=506221.5946

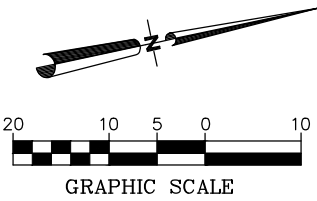
6.75'

2'

2'

PROPOSED QUICK COUPLING VALVE ASSEMBLY
STA. 4+47.37
OFFSET=39.423
NORTHING=1316258.3731
EASTING=506232.1894

PROPOSED 2" SCH40 PVC
WATER MAIN



NO.	BY	DATE	DESCRIPTION

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Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

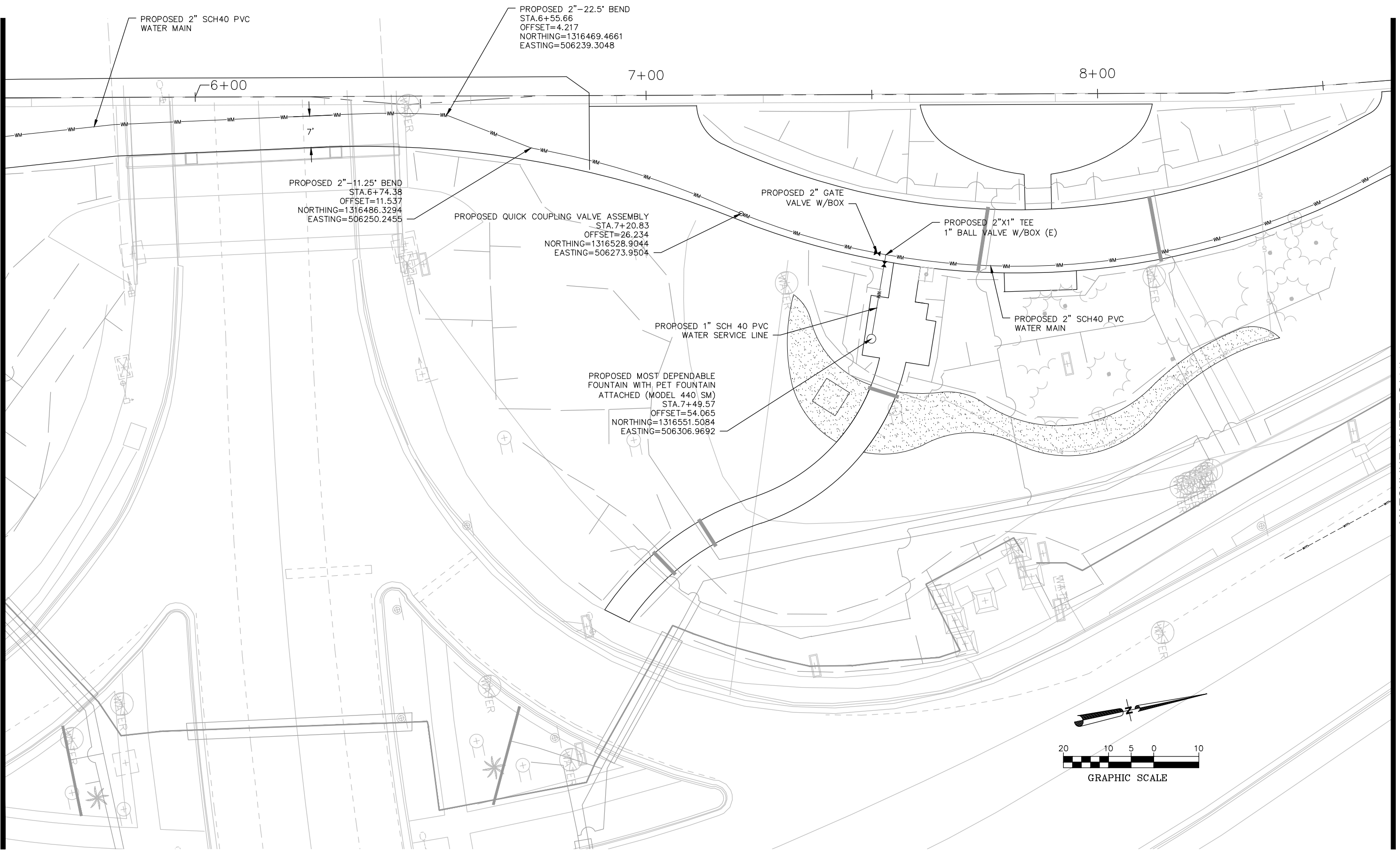
QUICK COUPLER PLAN

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43423
FL Reg. No. Sign Date

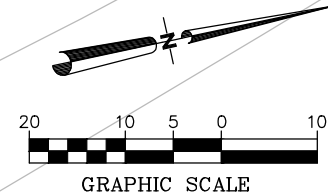
C142

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C142-TRWC UTL QP.dwg Last Modified: Jul 01, 2014 - 9:16am Plotted on: Aug 27, 2014 - 1:29pm by jim_corder

MATCHLINE (SHEET C142)



MATCHLINE (SHEET C144)



DRWN:				
DSGN:				
CHKD:				
APVD:				
DATE:	07/11/14			
NO.	BY	DATE	DESCRIPTION	
REVISIONS				

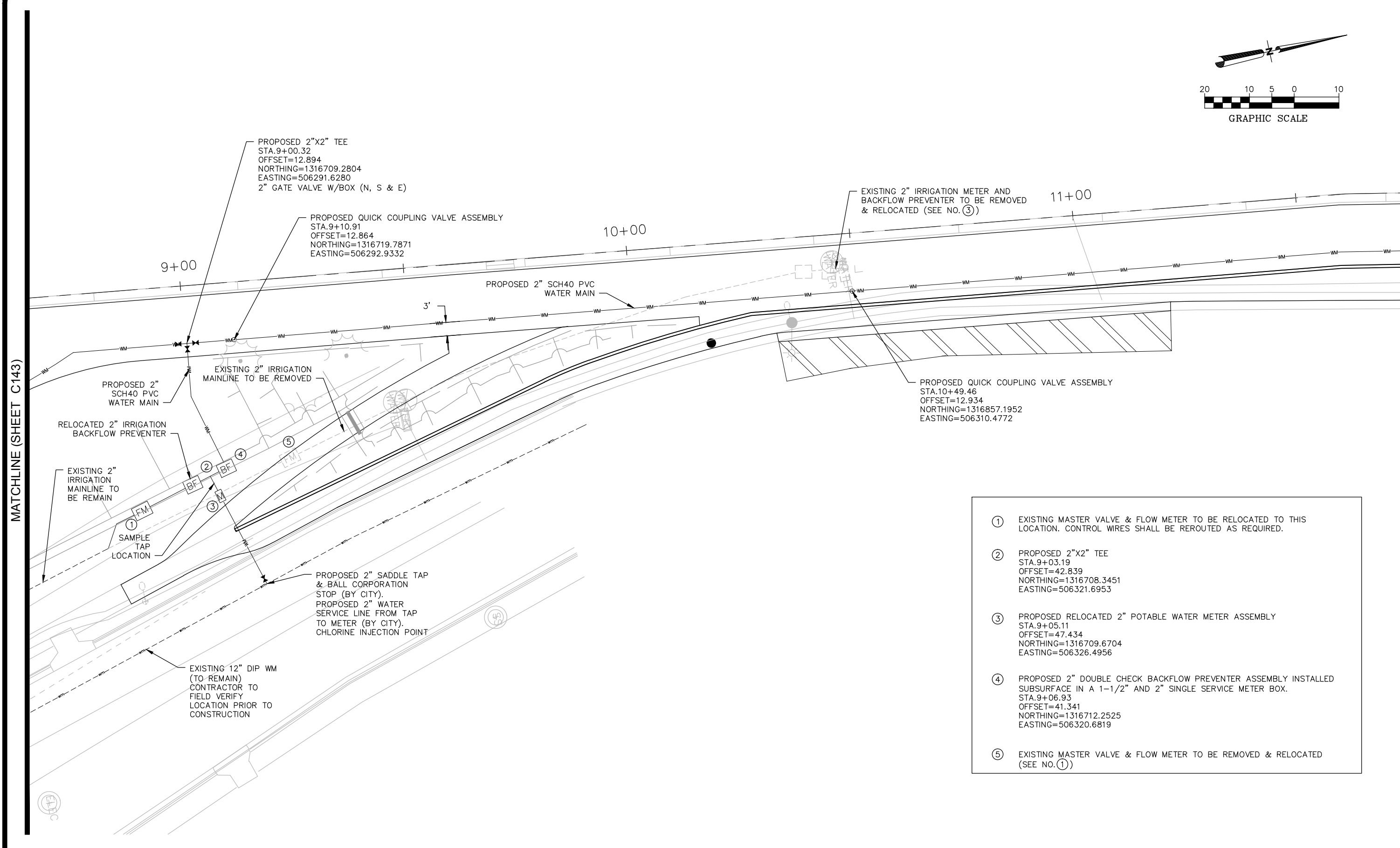
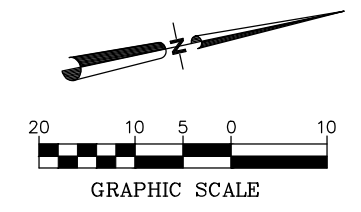
URS URS Corporation Southern
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TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
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QUICK COUPLER PLAN

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C143
print date



- ① EXISTING MASTER VALVE & FLOW METER TO BE RELOCATED TO THIS LOCATION. CONTROL WIRES SHALL BE REROUTED AS REQUIRED.
- ② PROPOSED 2"x2" TEE
STA. 9+03.19
OFFSET=42.839
NORTHING=1316708.3451
EASTING=506321.6953
- ③ PROPOSED RELOCATED 2" POTABLE WATER METER ASSEMBLY
STA. 9+05.11
OFFSET=47.434
NORTHING=1316709.6704
EASTING=506326.4956
- ④ PROPOSED 2" DOUBLE CHECK BACKFLOW PREVENTER ASSEMBLY INSTALLED SUBSURFACE IN A 1-1/2" AND 2" SINGLE SERVICE METER BOX.
STA. 9+06.93
OFFSET=41.341
NORTHING=1316712.2525
EASTING=506320.6819
- ⑤ EXISTING MASTER VALVE & FLOW METER TO BE REMOVED & RELOCATED (SEE NO. ①)

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C143-IBDC UTL QP.dwg Last Modified: Jul 01, 2014 - 9:16am Plotted on: Aug 27, 2014 - 11:46am by lym_carter

MATCHLINE (SHEET C143)

MATCHLINE (SHEET C145)

NO.	BY	DATE	DESCRIPTION

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TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

QUICK COUPLER PLAN

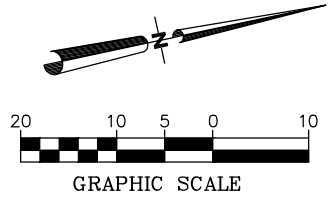
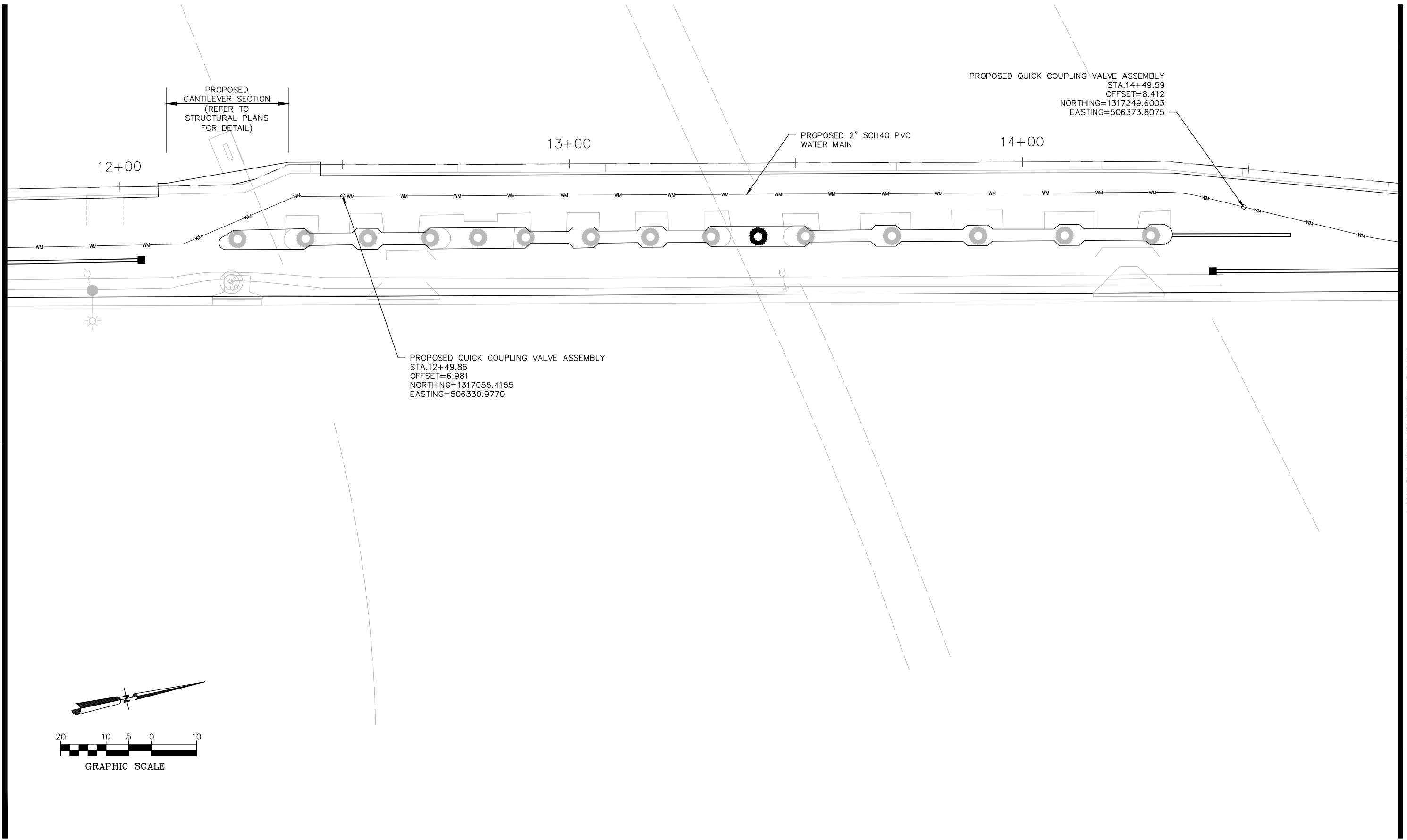
C144

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Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C147-TRWC UTL QP.dwg Last Modified: Jul 01, 2014 - 9:16am Plotted on: Aug 27, 2014 - 11:46am by lym_carter

MATCHLINE (SHEET C144)

MATCHLINE (SHEET C146)



NO.	BY	DATE	DESCRIPTION

REVISIONS

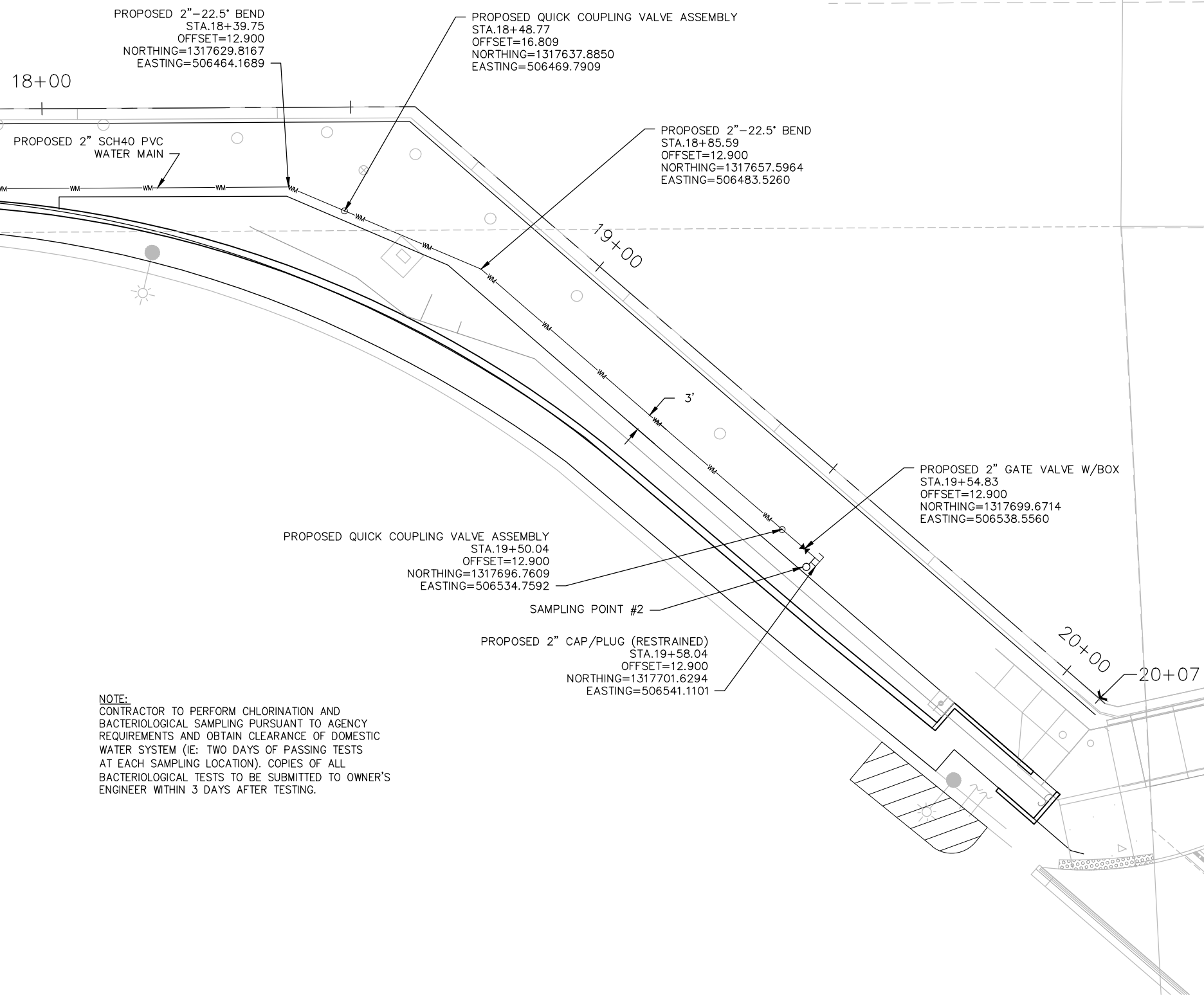
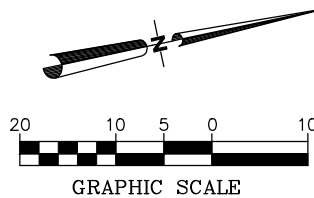
URS URS Corporation Southern
 7650 W. Courtney Campbell Causeway
 Tampa, Florida 33607 (813) 286-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

QUICK COUPLER PLAN

DENNIS W. SYRJJA, PE
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C145
 print date



NOTE:
 CONTRACTOR TO PERFORM CHLORINATION AND BACTERIOLOGICAL SAMPLING PURSUANT TO AGENCY REQUIREMENTS AND OBTAIN CLEARANCE OF DOMESTIC WATER SYSTEM (IE: TWO DAYS OF PASSING TESTS AT EACH SAMPLING LOCATION). COPIES OF ALL BACTERIOLOGICAL TESTS TO BE SUBMITTED TO OWNER'S ENGINEER WITHIN 3 DAYS AFTER TESTING.

MATCHLINE (SHEET C146)

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C147-TRWC UTL GP.dwg Last Modified: Jul 01, 2014 - 9:16am Plotted on: Aug 27, 2014 - 11:46am by lym_carter

NO.	BY	DATE	DESCRIPTION

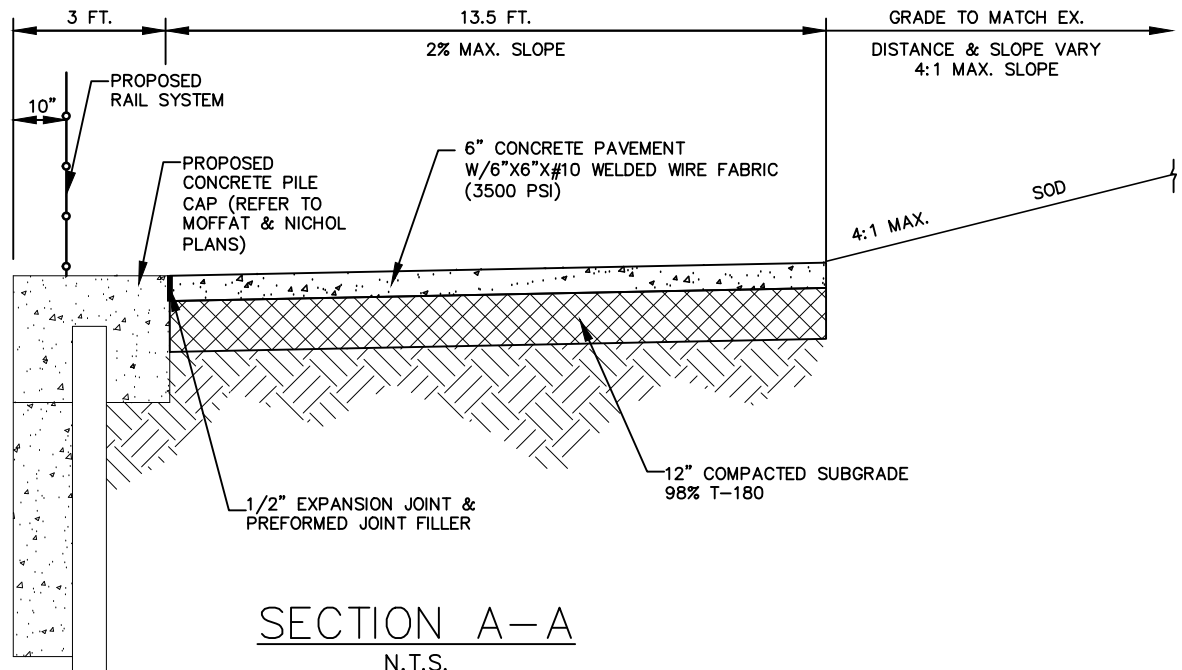
URS URS Corporation Southern
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 Tampa, Florida 33607 (813) 286-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

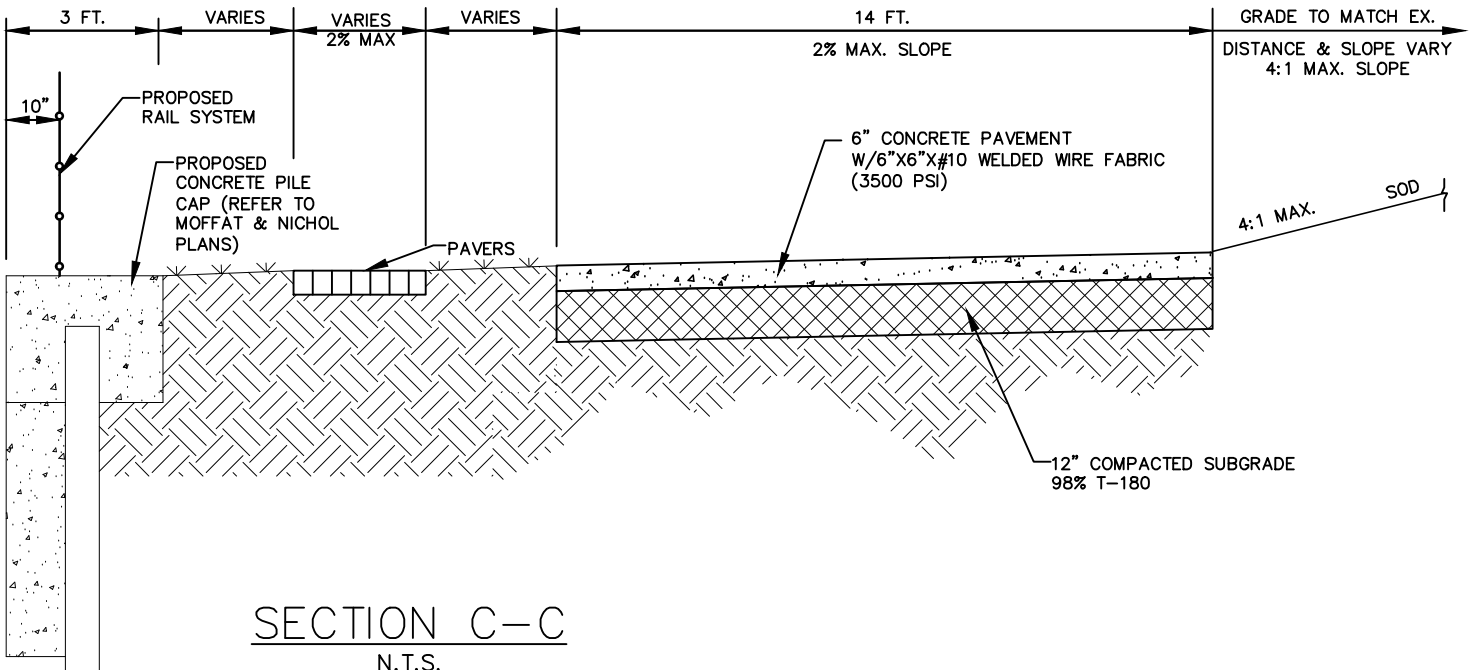
QUICK COUPLER PLAN

C147

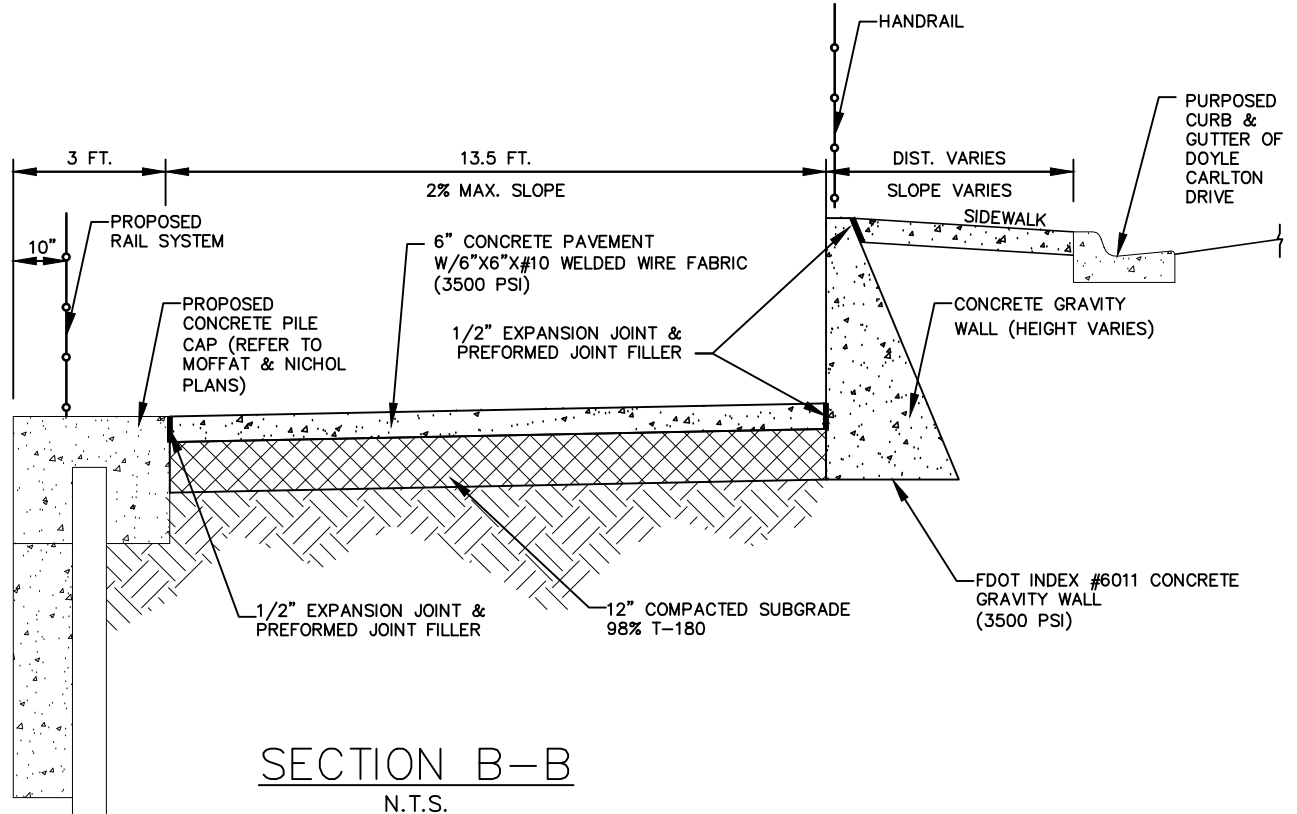
DENNIS W. SYRJJA, PE
 Registered Professional
 43423
 FL Reg. No. Sign Date print date



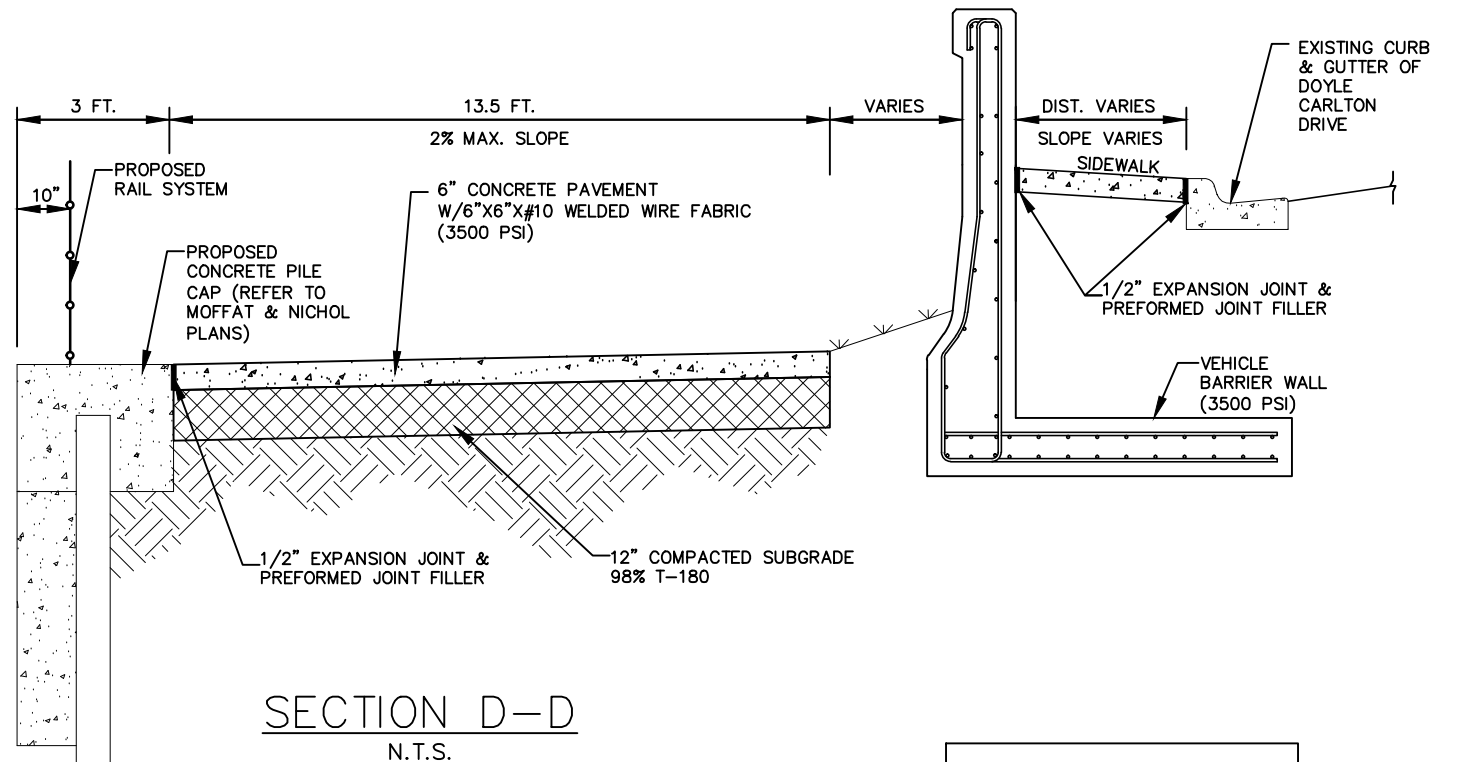
SECTION A-A
 N.T.S.
 STA. 0+00 TO STA. 3+09
 STA. 4+61 TO STA. 5+55
 STA. 6+91 TO STA. 7+11
 STA. 8+88 TO STA. 10+28



SECTION C-C
 N.T.S.
 STA. 3+09 TO STA. 4+61
 STA. 7+11 TO STA. 8+88



SECTION B-B
 N.T.S.
 STA. 10+28 TO STA. 12+00
 STA. 15+40 TO STA. 17+40



SECTION D-D
 N.T.S.
 STA. 17+40 TO STA. 20+08

REFER TO S501 AND S502 FOR STRUCTURAL SECTIONS

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C301_TREC_DET_Rev.dwg Last Modified: Aug 29, 2014 - 11:43am by lym_carter

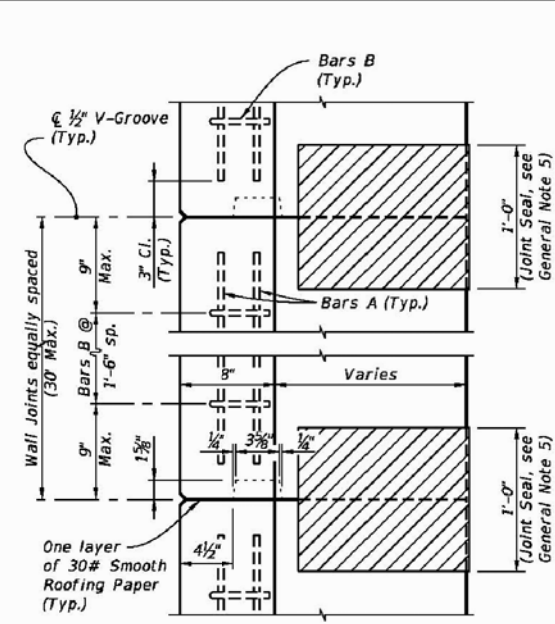
NO.	BY	DATE	DESCRIPTION

URS URS Corporation Southern
 7650 W. Courtney Campbell Cswy.
 Tampa, Florida 33607 (813) 286-1711
 Engineering Business No. 00000002

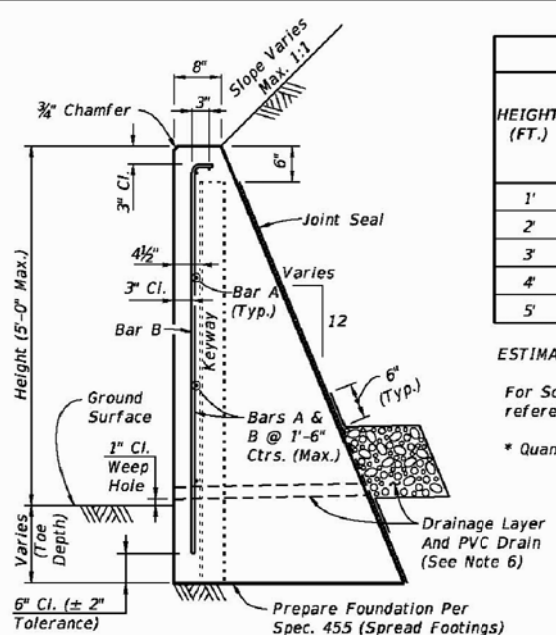
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

TYPICAL SECTIONS

C301
 DENNIS W. SYRJJA, PE
 Registered Professional
 43423
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KEYWAY & WALL JOINT DETAIL (TOP VIEW)



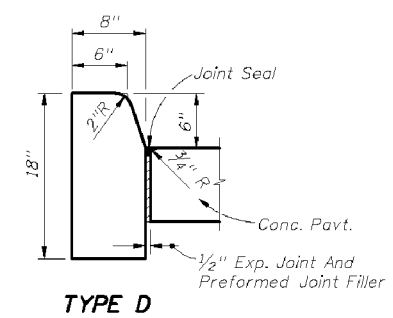
TYPICAL SECTION

HEIGHT (FT.)	PER LINEAR FOOT OF WALL			REINF. STEEL (LB.)	WEEP HOLES & DRAIN REQD.
	CLASS NS CONCRETE (CY)				
	SCHEME 1	SCHEME 2	SCHEME 3		
1'	0.08	0.11 (0.20*)	0.03	3 (4*)	No
2'	0.14	0.20 (0.32*)	0.09	4 (5*)	No
3'	0.22	0.32 (0.47*)	0.29	5 (6*)	Yes
4'	0.32	0.47 (0.65*)	0.43	6 (7*)	Yes
5'	0.43	0.65 (0.85*)	0.60	7 (8*)	Yes

ESTIMATED QUANTITIES NOTES:
 For Scheme 3 Junction Slab and Traffic Railing see the referenced Design Standards for estimated quantities.
 * Quantity for 2'-0" Toe Depth in Scheme 2.

GENERAL NOTES

- Gravity walls constructed as extensions of reinforced concrete retaining walls, except walls of proprietary designs, shall have the same face texture and finish as the reinforced concrete retaining wall.
- Concrete for Gravity Wall shall be Class NS per Section 347. Concrete for Scheme 3 Junction Slab and Traffic Railing shall be Class II per Section 346, unless otherwise specified in the plans.
- Reinforcing steel shall be ASTM A615, Grade 40 or 60 provided at the max. spacings shown. ASTM A185 Smooth or ASTM A497 Deformed Welded Wire Reinforcement (WWR) may be substituted on an equal area basis. Do not increase bar/wire spacing for Grade 60 reinforcing steel or WWR.
- When required, for adjunct guiderail see the plans, Index No. 870 or 880 as appropriate. For adjunct Type B fence see Index No. 802.
- Joint seal to be two layers of 30# smooth roofing paper or Type D-5 geotextile fabric in accordance with Index No. 199. Mop all contact surfaces of concrete and roofing paper or geotextile fabric with cut-back asphalt. Stop roofing paper or geotextile fabric 6" below top of wall.
- Provide a continuous 1'x1' clean gravel or crushed rock drain for wall heights 3 ft. and higher. Wrap drainage layer as shown, with Type D-3 geotextile fabric in accordance with Index No. 199. Provide 8"x8" galvanized mesh with 1/2" openings, at the inside end of the PVC Drain Pipe. Provide 2" Ø PVC Drain Pipe (Sch. 40) at 10 ft. max. spacing (When Drainage Layer required). Locate minimum 2'-0" clear of wall joints.
- Cost of reinforcing steel, face texture, finish, joint seal, drain pipes, drainage layer, galvanized mesh and geotextile fabric to be included in the Contract Unit Price for Concrete Class NS, Gravity Wall. Cost of concrete for Junction Slab in Scheme 3, to be included in Contract Unit Price for Concrete Traffic Railing Barrier With Junction Slab. Adjunct railings or fences to be paid for separately.

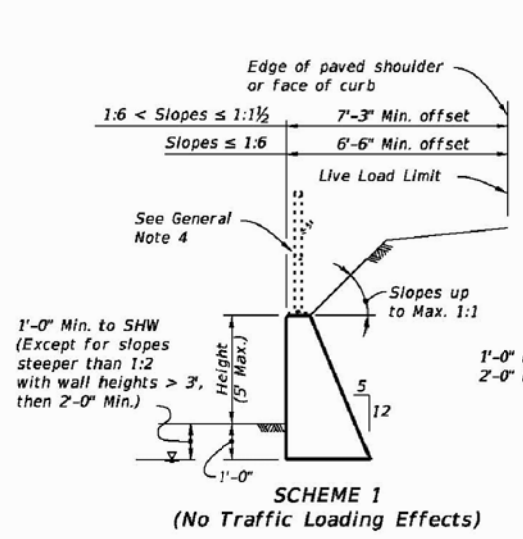


Note:
 For use adjacent to concrete or flexible pavement, concrete shown. Expansion joint, preformed joint filler and joint seal are required between curbs and concrete pavement only, see Sheet 2.

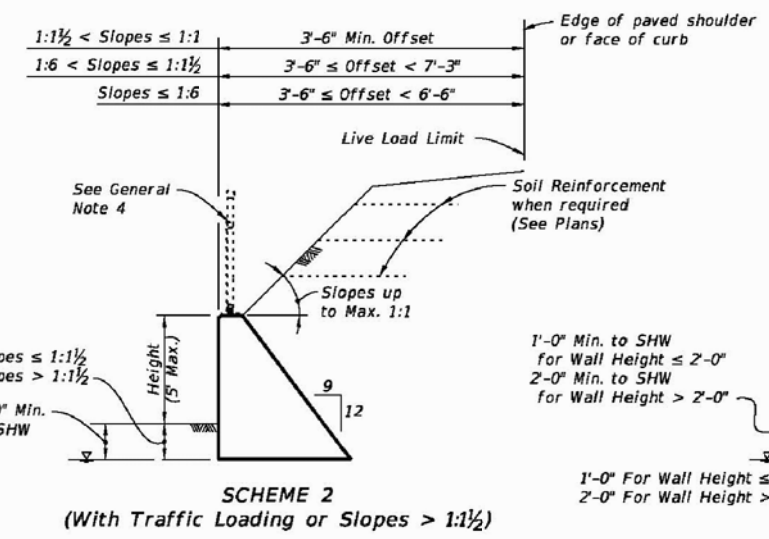
CONCRETE CURB

FDOT TYPE 'D' CURB

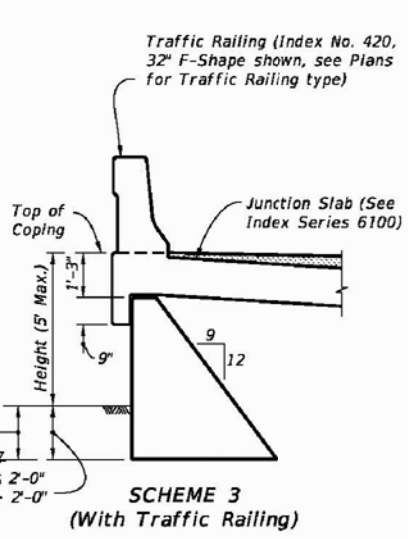
N.T.S.



SCHEME 1 (No Traffic Loading Effects)



SCHEME 2 (With Traffic Loading or Slopes > 1:1 1/2)



SCHEME 3 (With Traffic Railing)

BILL OF REINFORCING STEEL		
MARK	SIZE	LENGTH
A	4	As Reqd.
B	4	As Reqd.

BAR BENDING DIAGRAM

NOTES:
 1. All bar dimensions are out to out.
 2. Lap splices for Bars A must be a minimum of 1'-6".

LAST REVISION	DESCRIPTION:		C-I-P GRAVITY WALL	INDEX NO.	SHEET NO.
01/01/11				6011	1

GRAVITY WALL DETAIL

N.T.S.

Drawing Name: S:\Projects\Tempo Riverwalk Doyle Carlton\Production\DWG\C001 TRDC DES.dwg Last Modified: Jun 19, 2014 - 12:41pm Plotted on: Jun 19, 2014 - 1:12pm by christopher_bryant

NO.	BY	DATE	DESCRIPTION

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 Tampa, Florida 33607 (813) 286-1711
 Engineering Business No. 00000002

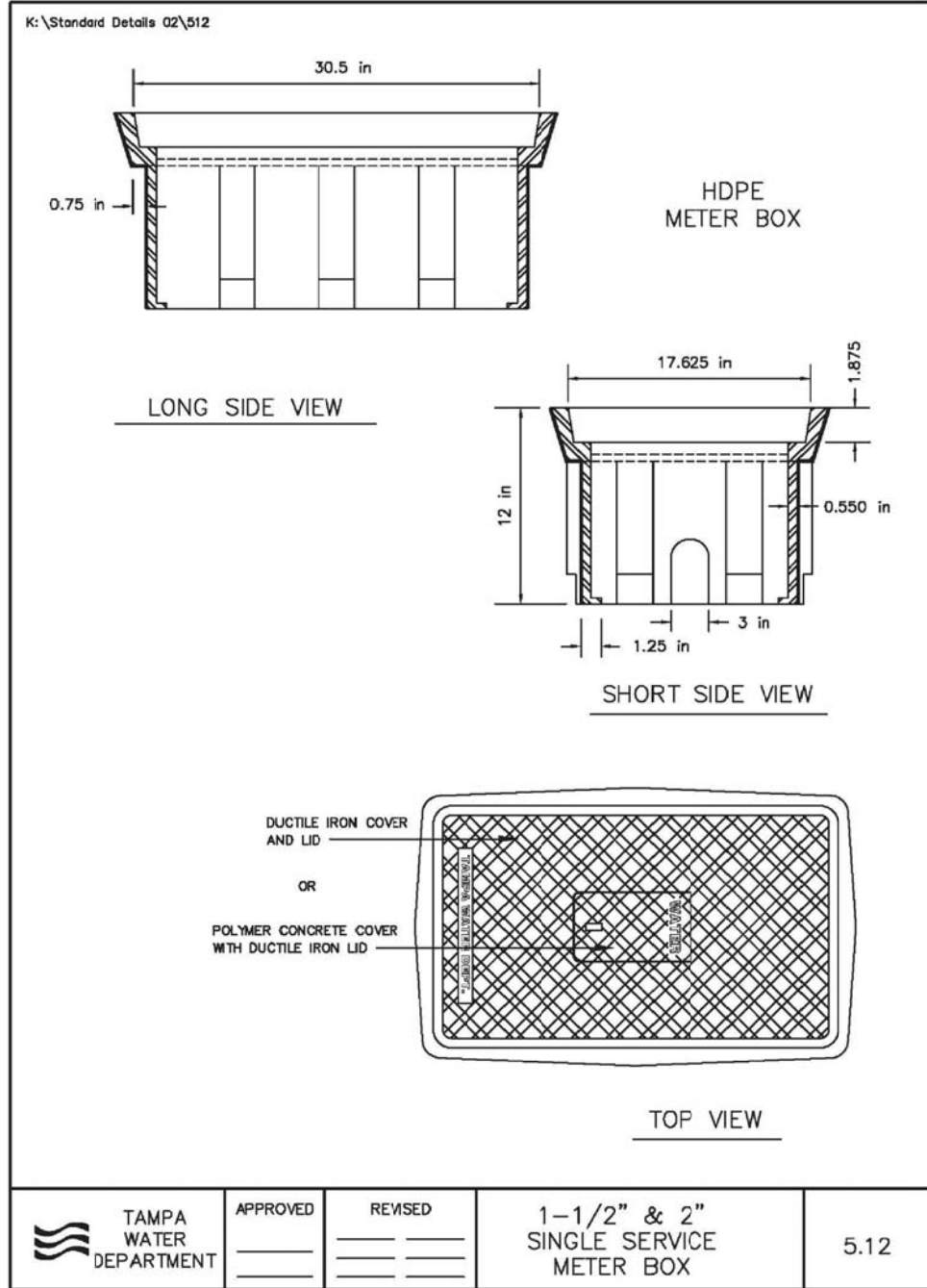
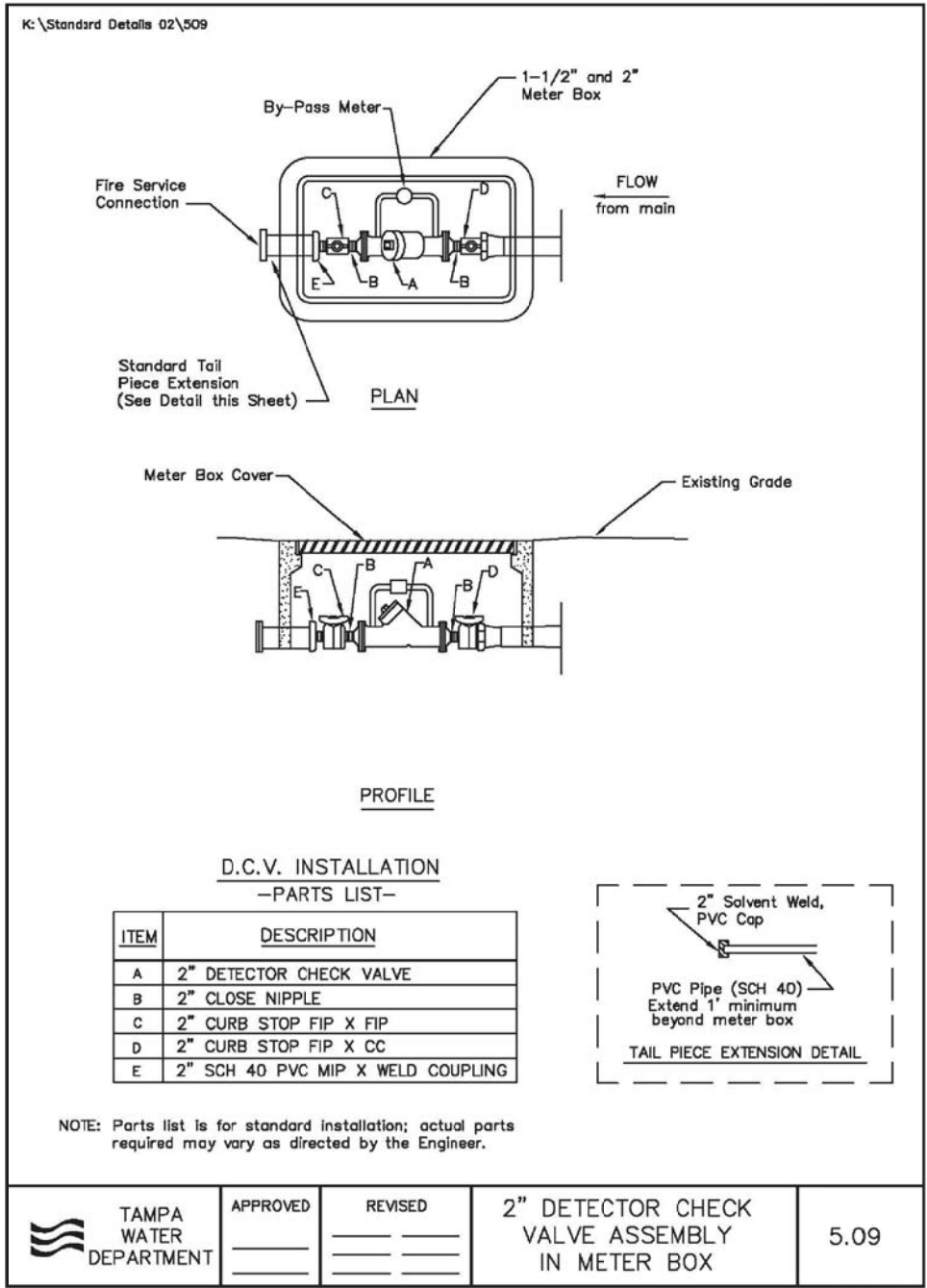
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

CIVIL DETAILS

DENNIS W. SYRJIA, PE
 Registered Professional
 43423
 FL Reg No. Sign Date

C501

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\C001 TRDC DEFS.dwg Last Modified: Jun 19, 2014 - 12:41pm Plotted on: Jun 19, 2014 - 11:53am by chloethorbyrj



DRWN: ---	NO.	BY	DATE	DESCRIPTION
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CHKD: ---				
APVR: ---				
DATE: 06/27/13				
JOB #: 12011325	REVISIONS			

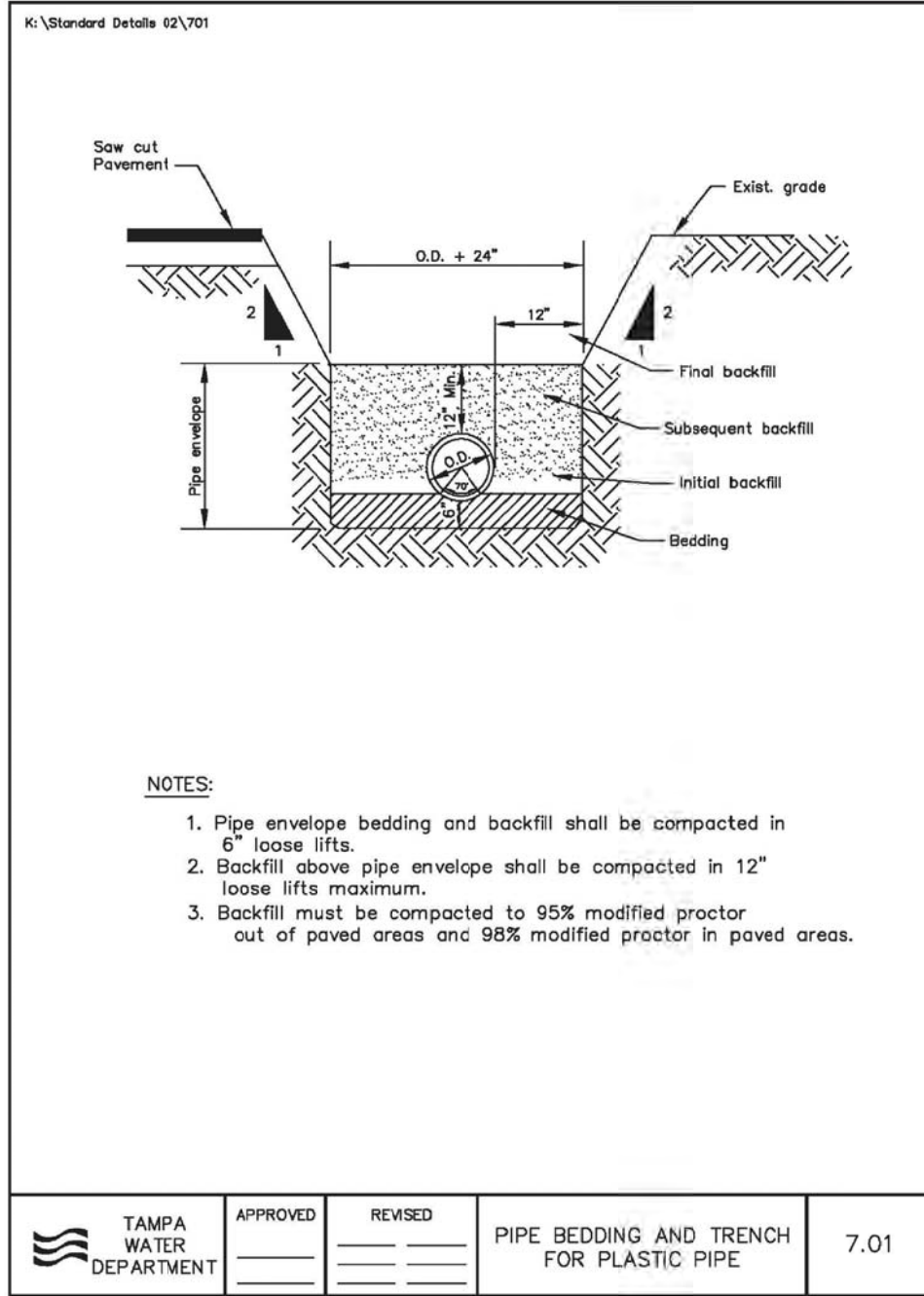
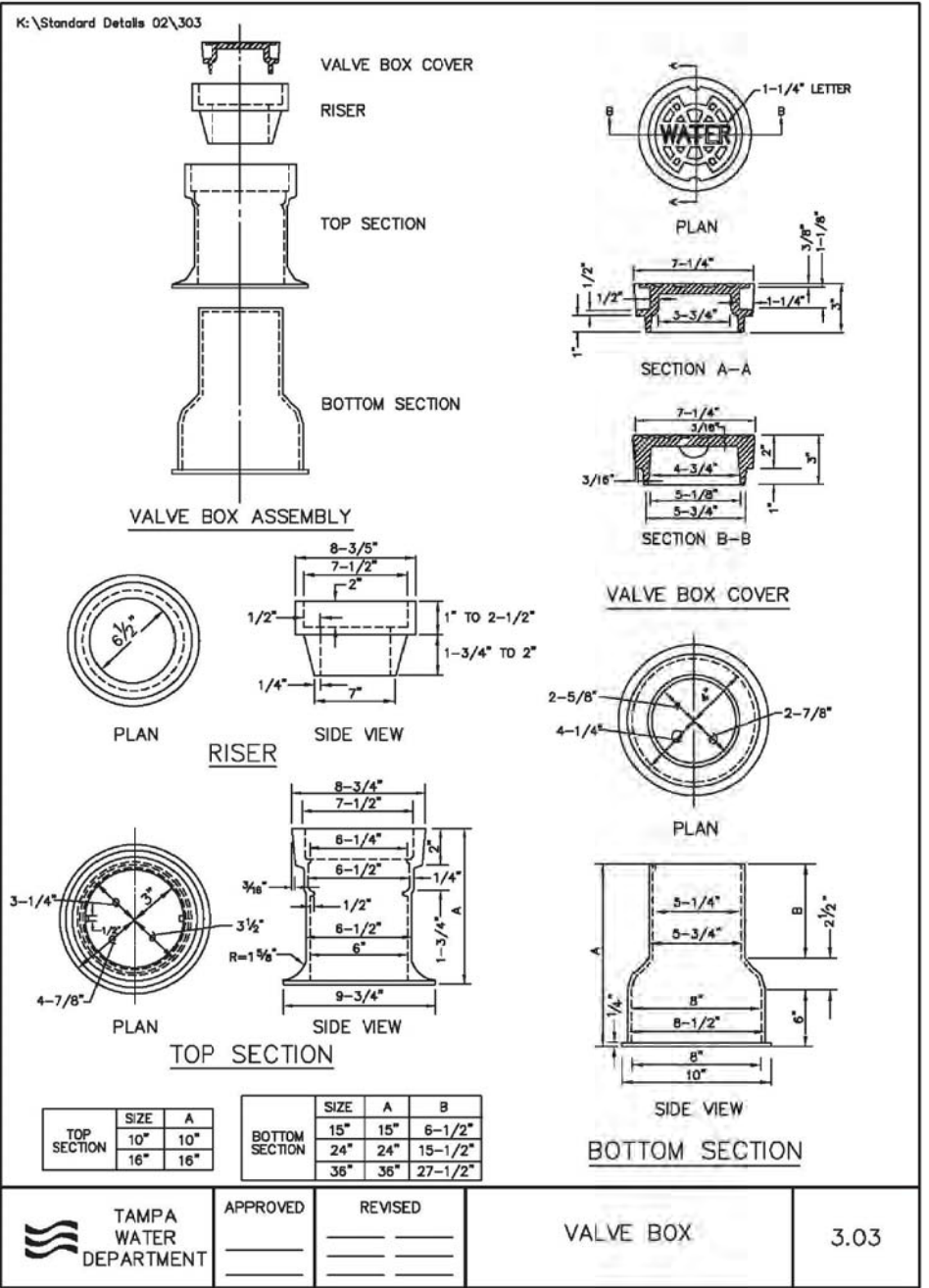
URS
URS Corporation Southern
7650 W. Courtney Campbell Causeway,
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CONTRACT ADMINISTRATION

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43423
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C503



Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\0201 TRDC DECS.dwg Last Modified: Jun 19, 2014 - 12:41pm Plotted on: Jun 19, 2014 - 11:14pm by chlotheper_layout

NO.	BY	DATE	DESCRIPTION

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URS URS Corporation Southern
 7650 W. Courtney Campbell Cswy.,
 Tampa, Florida 33607 (813) 285-1711
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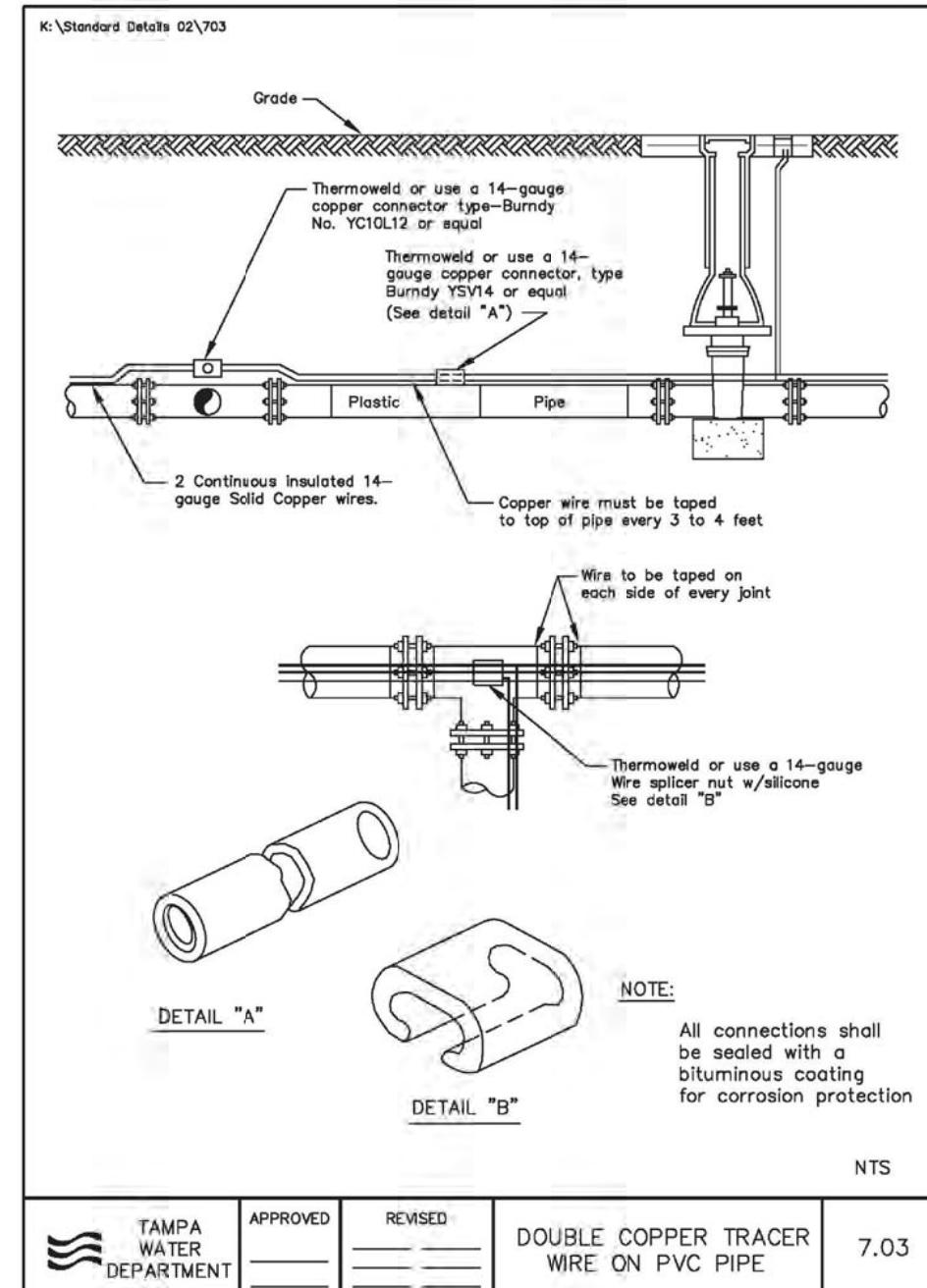
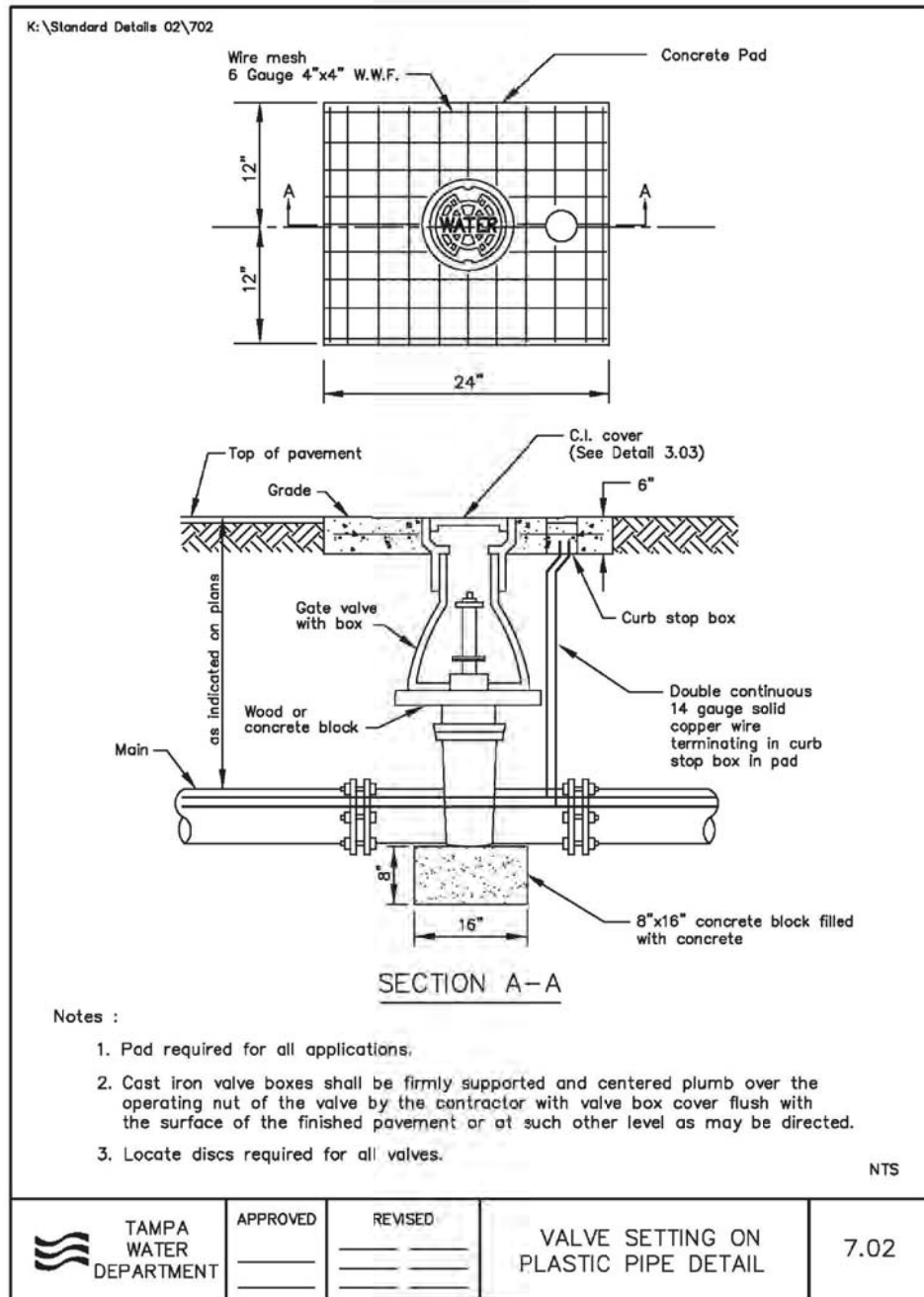
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
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 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

UTILITY DETAILS

DENNIS W. SYRJIA, PE
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 43423
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C504

Drawing Name: S:\Projects\Tampa Riverwalk Doyle Carlton\Production\DWG\001 TRDC DECS.dwg Last Modified: Jun 19, 2014 - 12:41pm Plotted on: Jun 19, 2014 - 1:15pm by chloepeter_bryant



DRWN: --	DSGN: --	CHKD: --	APVR: --	DATE: 06/27/13	NO.	BY	DATE	DESCRIPTION
REVISIONS								

URS URS Corporation Southern
7650 W. Courtney Campbell Cswy.,
Tampa, Florida 33607 (813) 286-1711
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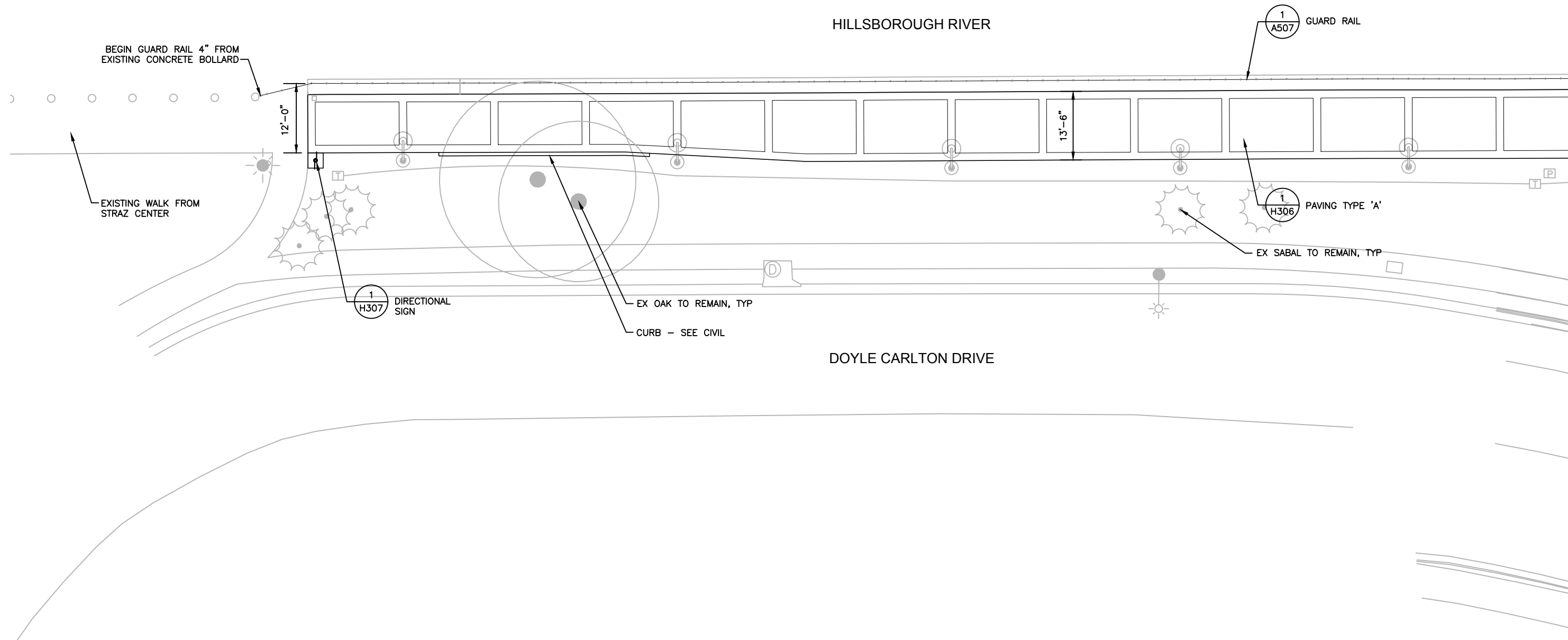
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

UTILITY DETAILS

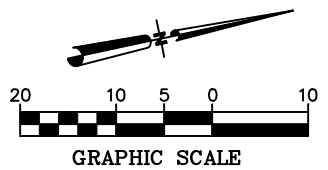
DENNIS W. SYRJIA, PE
Registered Professional
43423
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C505

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MATCHLINE SEE HARDSCAPE PLAN (2)



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TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

HARDSCAPE PLAN (1)

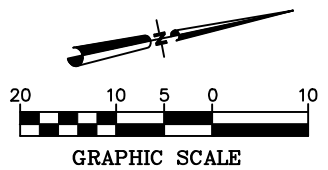
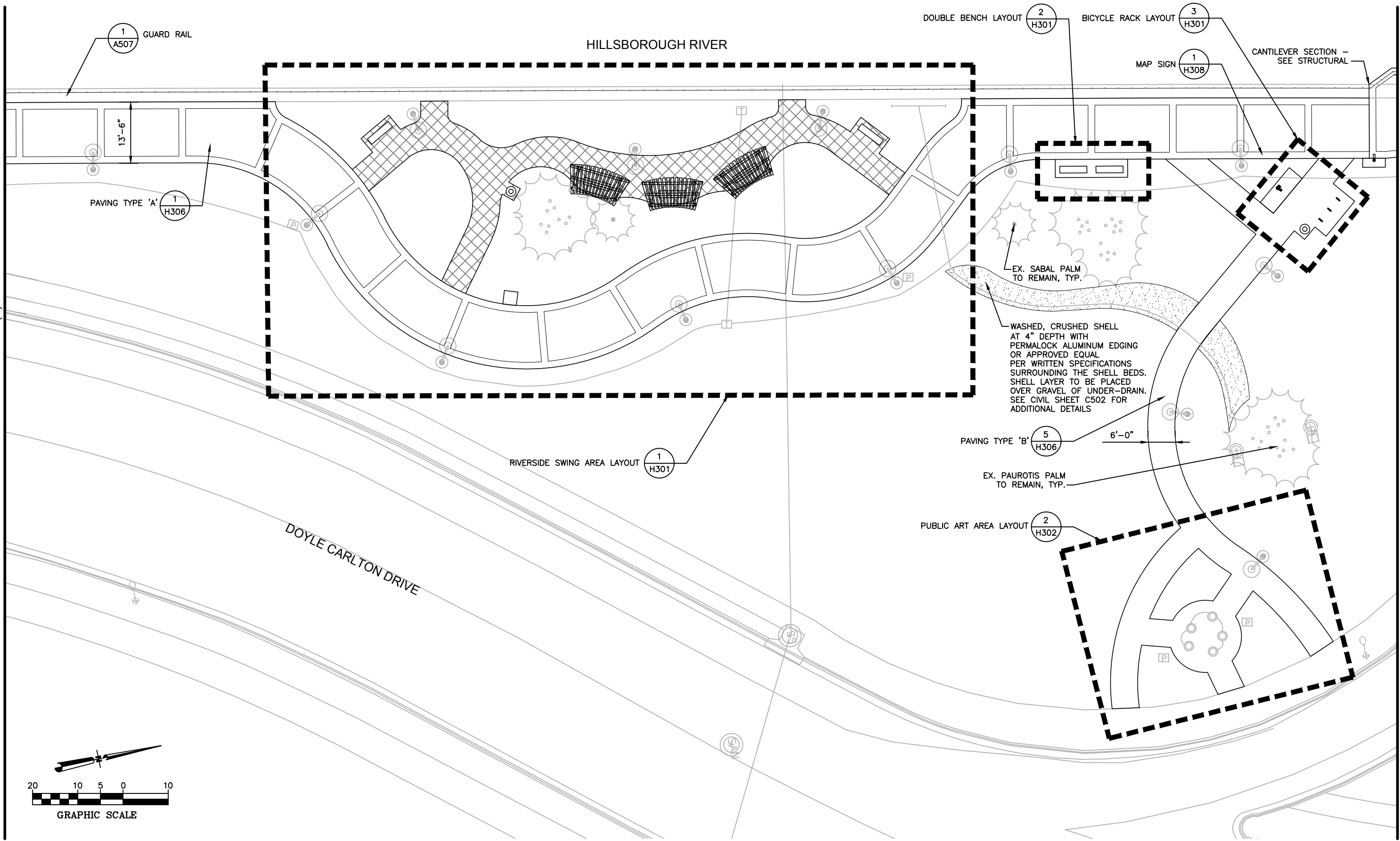
SHIRLEY PEARSALL, L.A.
 Registered Professional
 607
 FL Reg. No. Sign Date

H101
 print date

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MATCHLINE SEE HARDSCAPE PLAN (1)

MATCHLINE SEE HARDSCAPE PLAN (3)



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REVISIONS

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TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

HARDSCAPE PLAN (2)

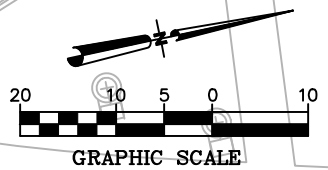
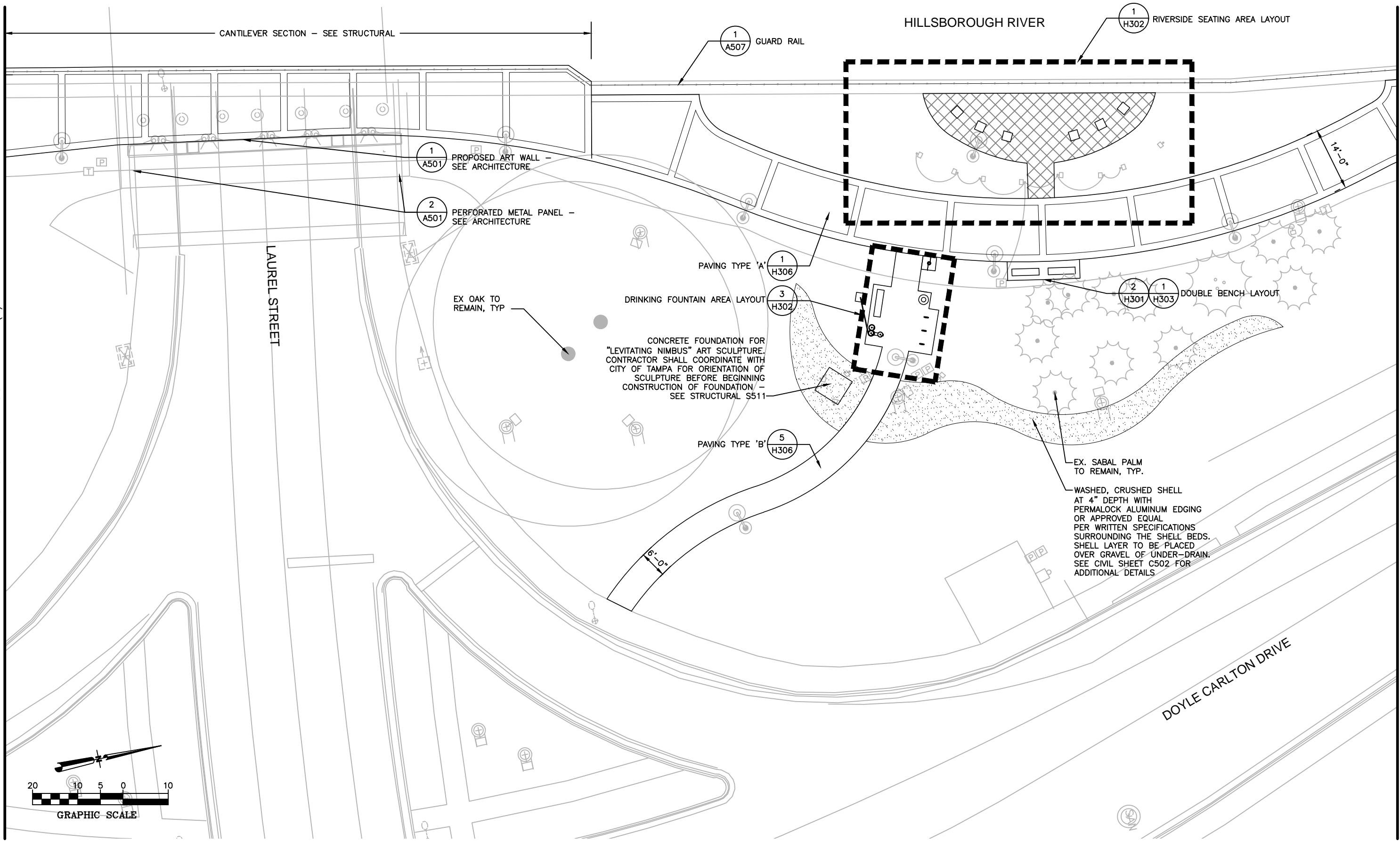
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 Registered Professional
 607
 FL Reg. No. Sign Date print date

H102

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MATCHLINE SEE HARDSCAPE PLAN (2)

MATCHLINE SEE HARDSCAPE PLAN (4)



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HARDSCAPE PLAN (3)

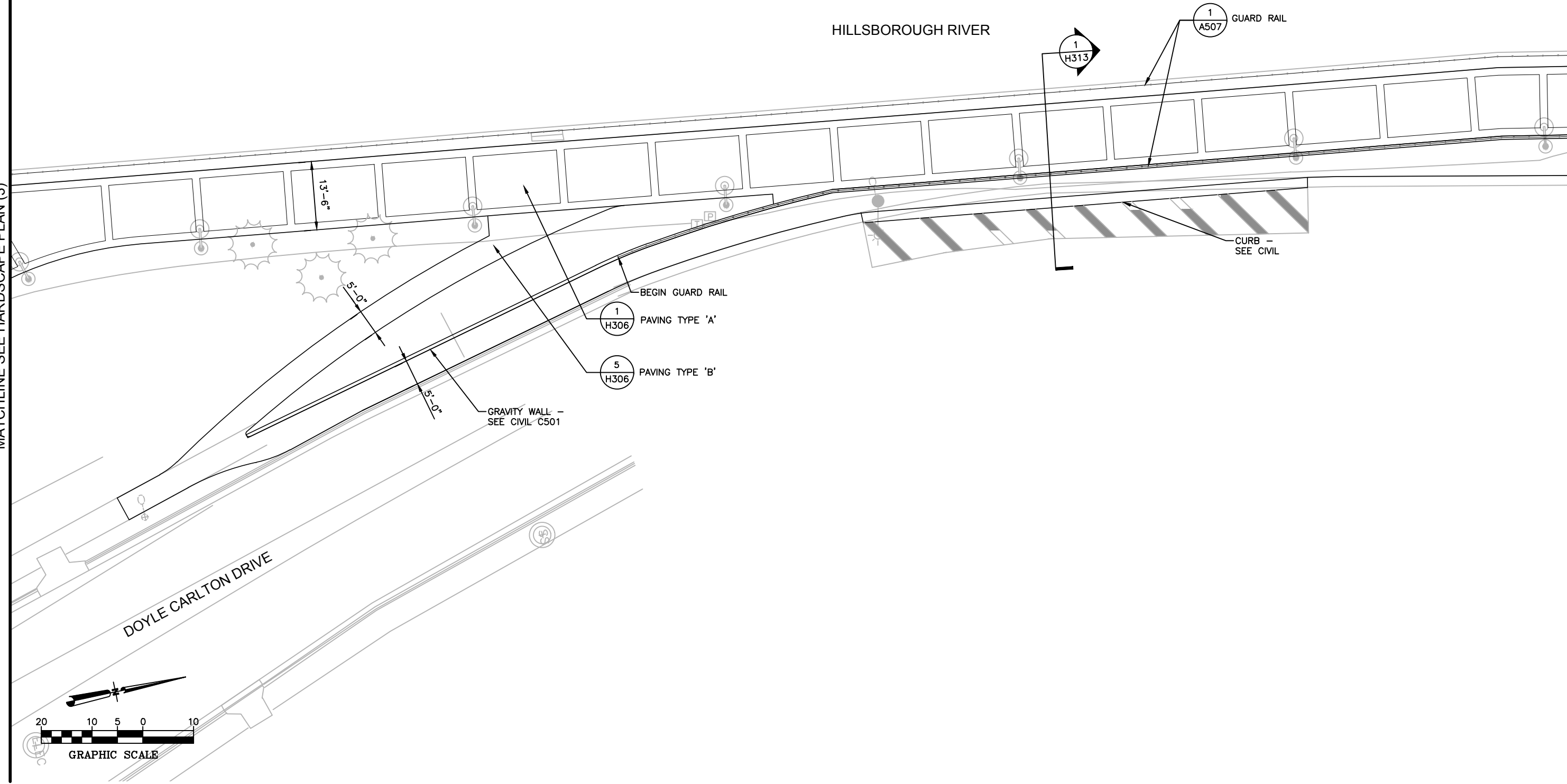
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 Registered Professional
 607
 FL Reg. No. Sign Date print date

H103

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MATCHLINE SEE HARDSCAPE PLAN (3)

MATCHLINE SEE HARDSCAPE PLAN (5)



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TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
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 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

HARDSCAPE PLAN (4)

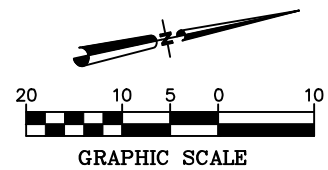
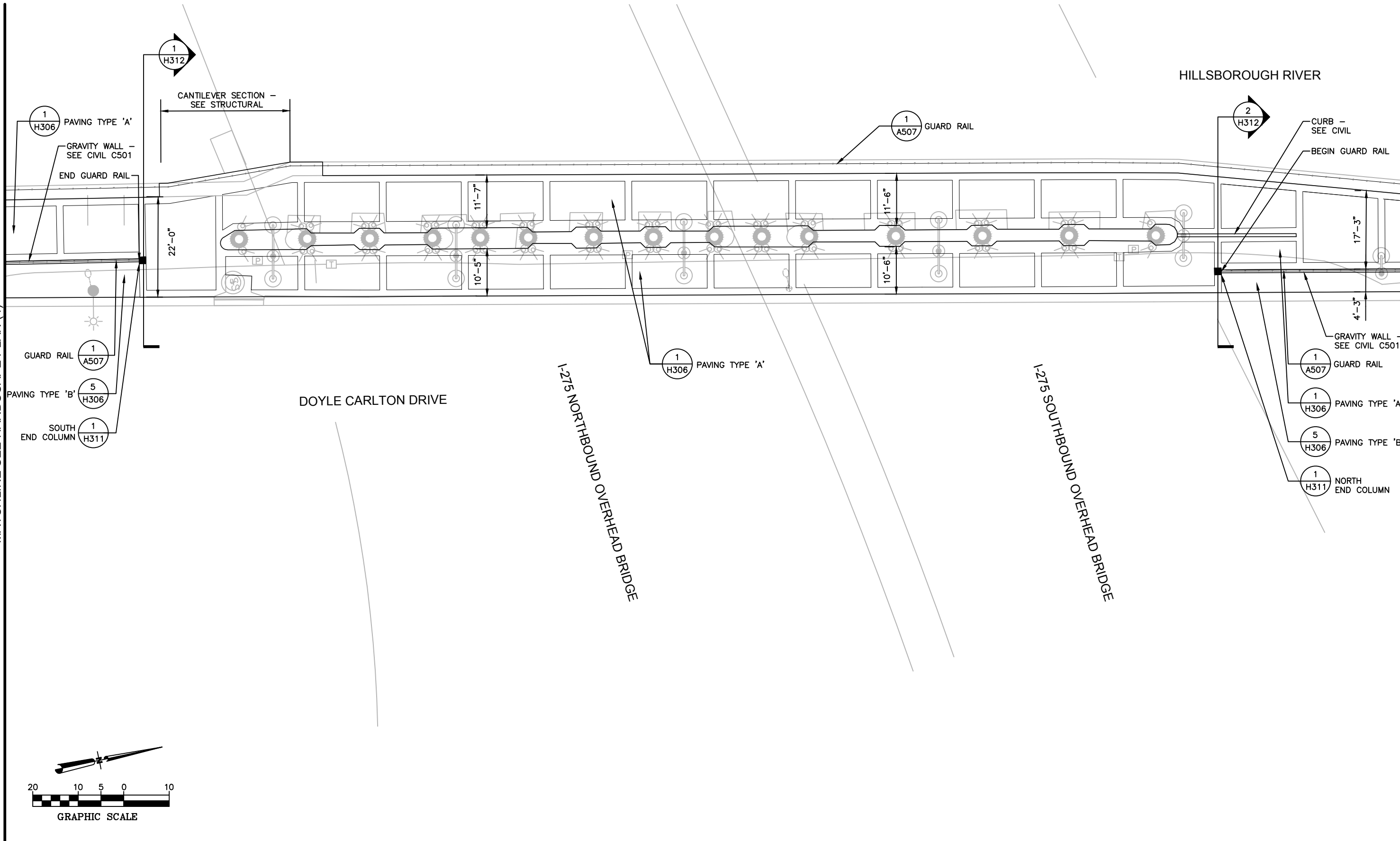
SHIRLEY PEARSALL, L.A.
 Registered Professional
 607
 FL Reg. No. Sign Date

H104
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MATCHLINE SEE HARDSCAPE PLAN (4)

MATCHLINE SEE HARDSCAPE PLAN (6)



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HARDSCAPE PLAN (5)

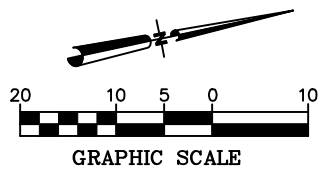
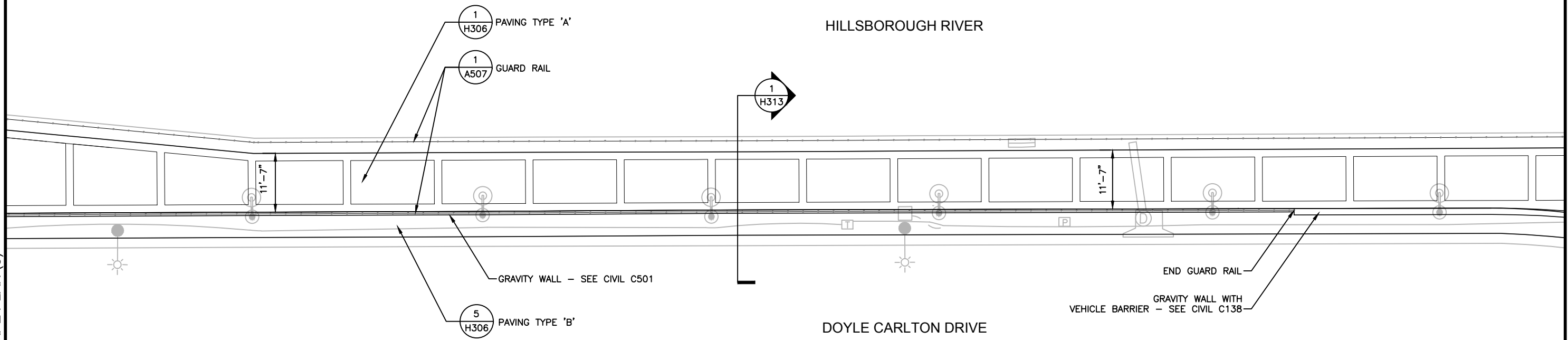
SHIRLEY PEARSALL, L.A.
 Registered Professional
 607
 FL Reg. No. Sign Date

H105
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MATCHLINE SEE HARDSCAPE PLAN (5)

MATCHLINE SEE HARDSCAPE PLAN (7)



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TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

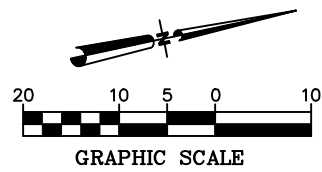
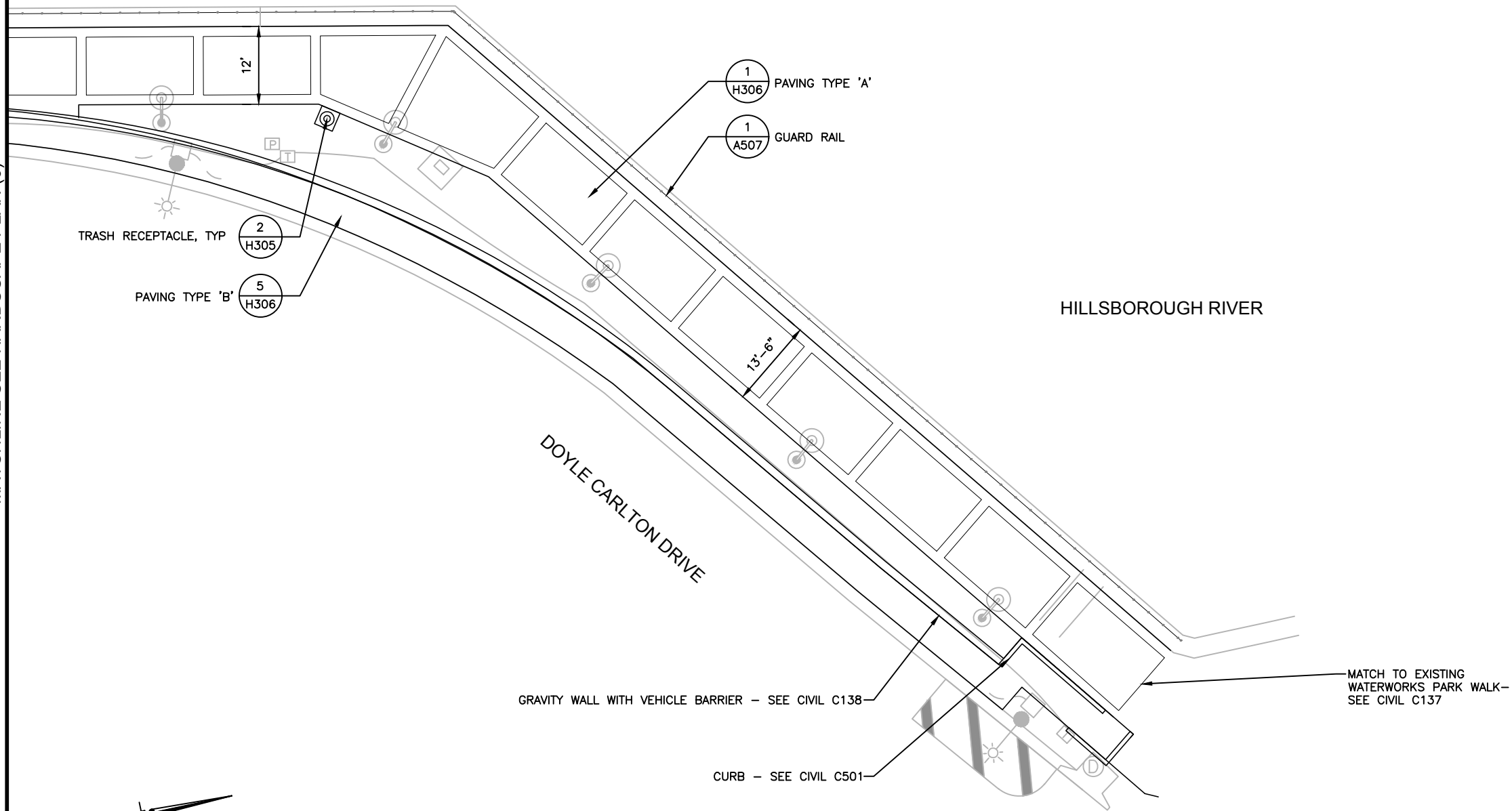
HARDSCAPE PLAN (6)

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 607
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H106
 print date

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MATCHLINE SEE HARDSCAPE PLAN (6)



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FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

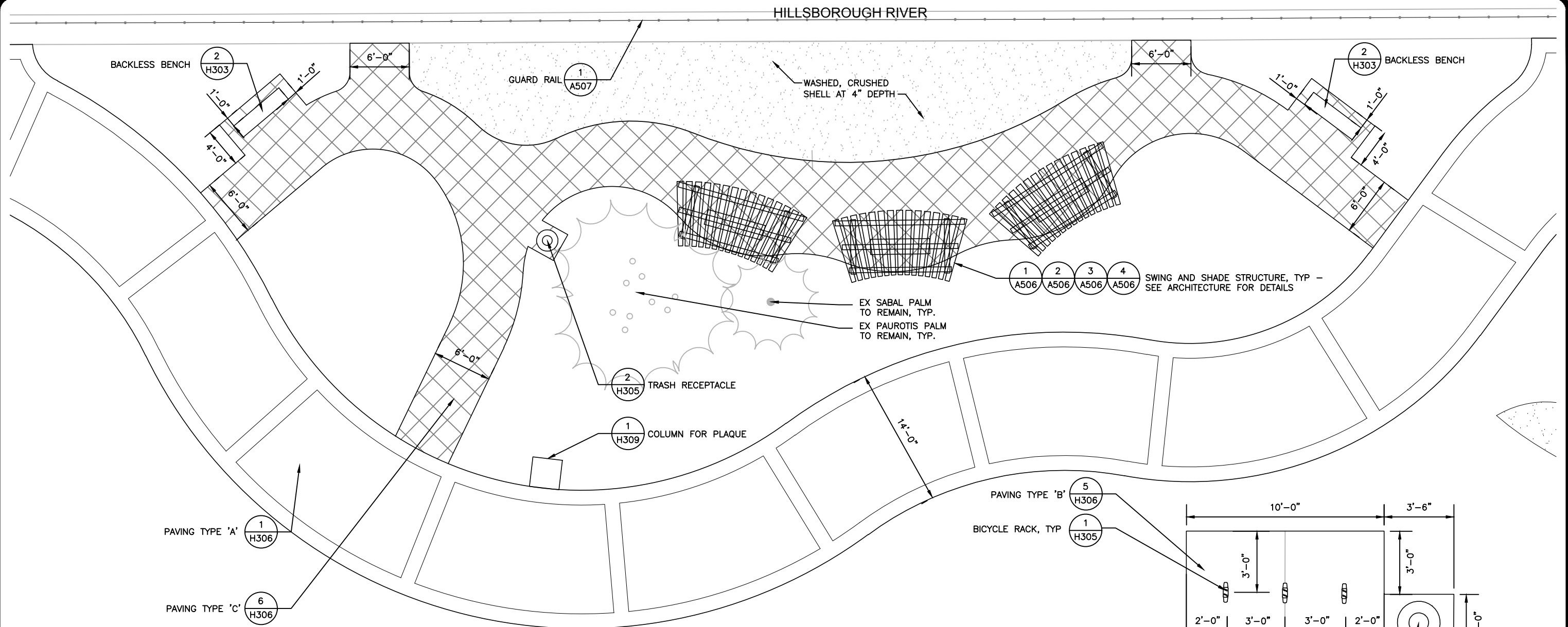
HARDSCAPE PLAN (7)

SHIRLEY PEARSALL, L.A.
Registered Professional
607
FL Reg. No. Sign Date

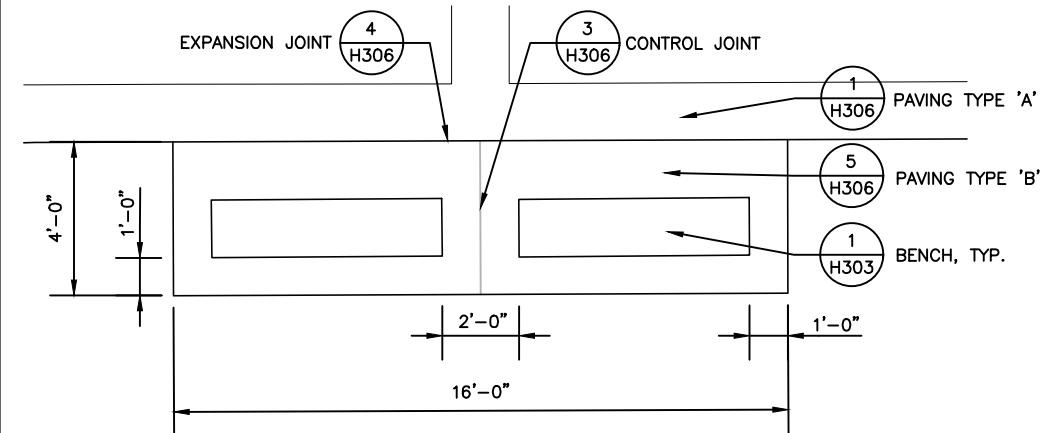
H107

print date

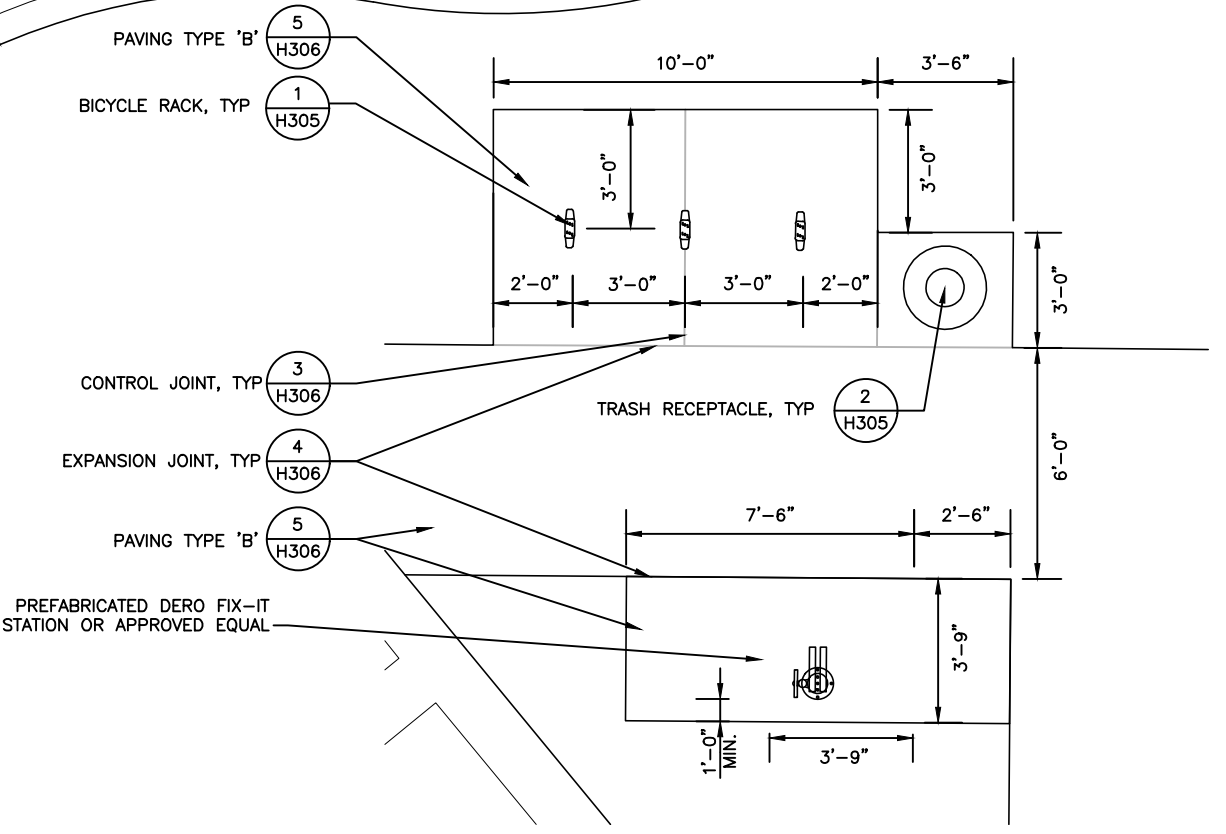
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1 1"=10' RIVERSIDE SWING AREA LAYOUT



2 1"=5' DOUBLE BENCH LAYOUT



3 1"=5' BICYCLE RACK LAYOUT

NO.	BY	DATE	DESCRIPTION

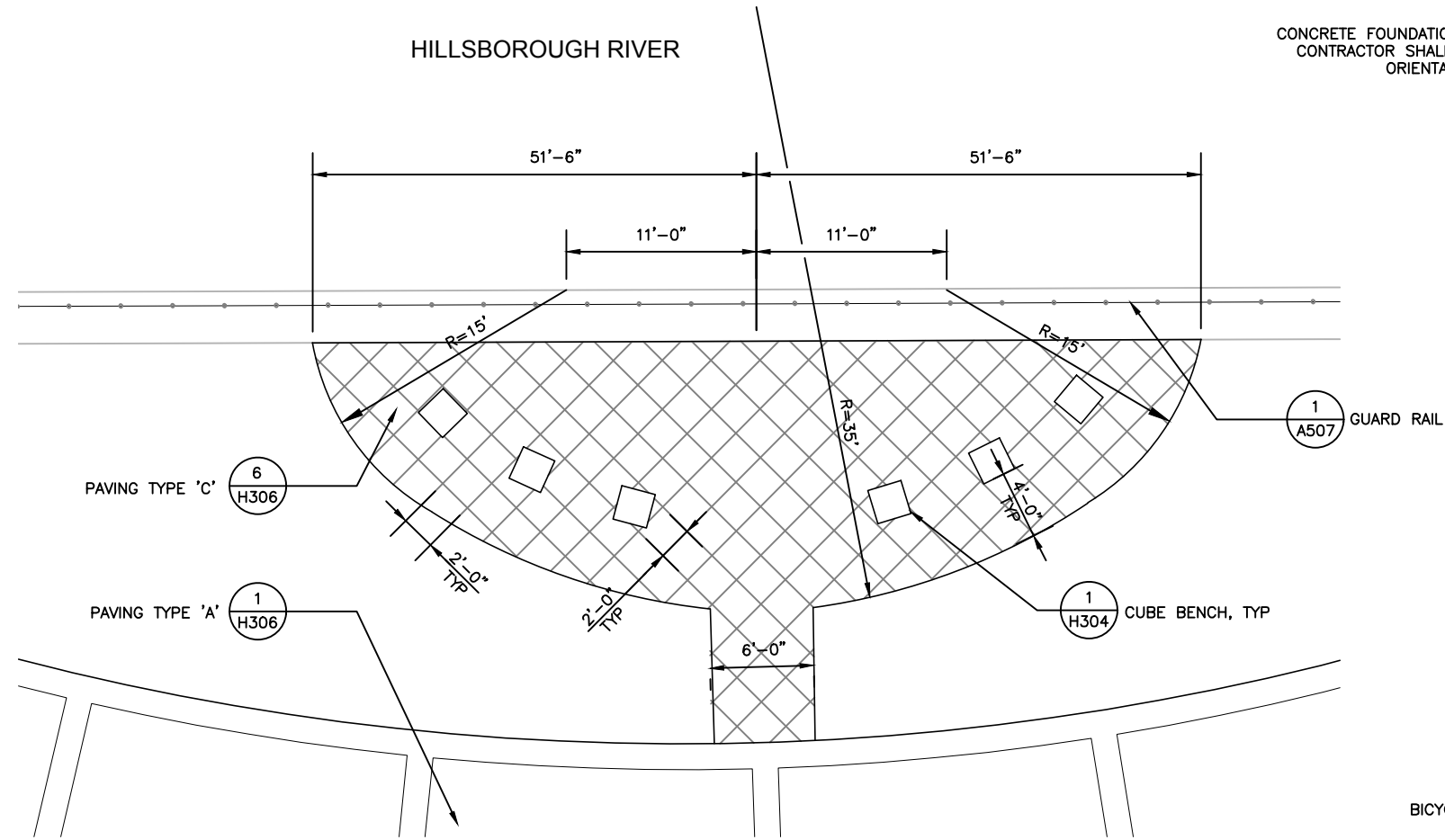
URS URS Corporation Southern
 7650 W. Courtney Campbell Cswy.
 Tampa, Florida 33607 (813) 285-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

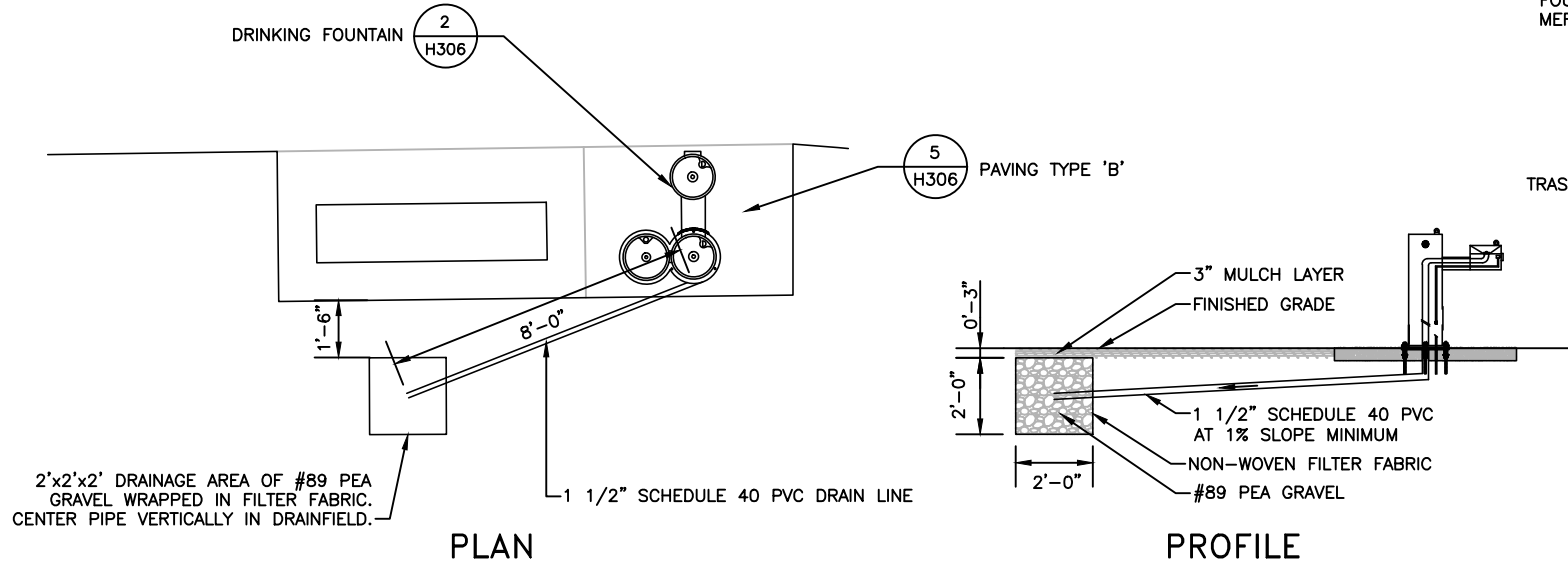
HARDSCAPE DETAILS

H301
 SHIRLEY PEARSALL, L.A.
 Registered Professional
 607
 FL Reg. No. Sign Date print date

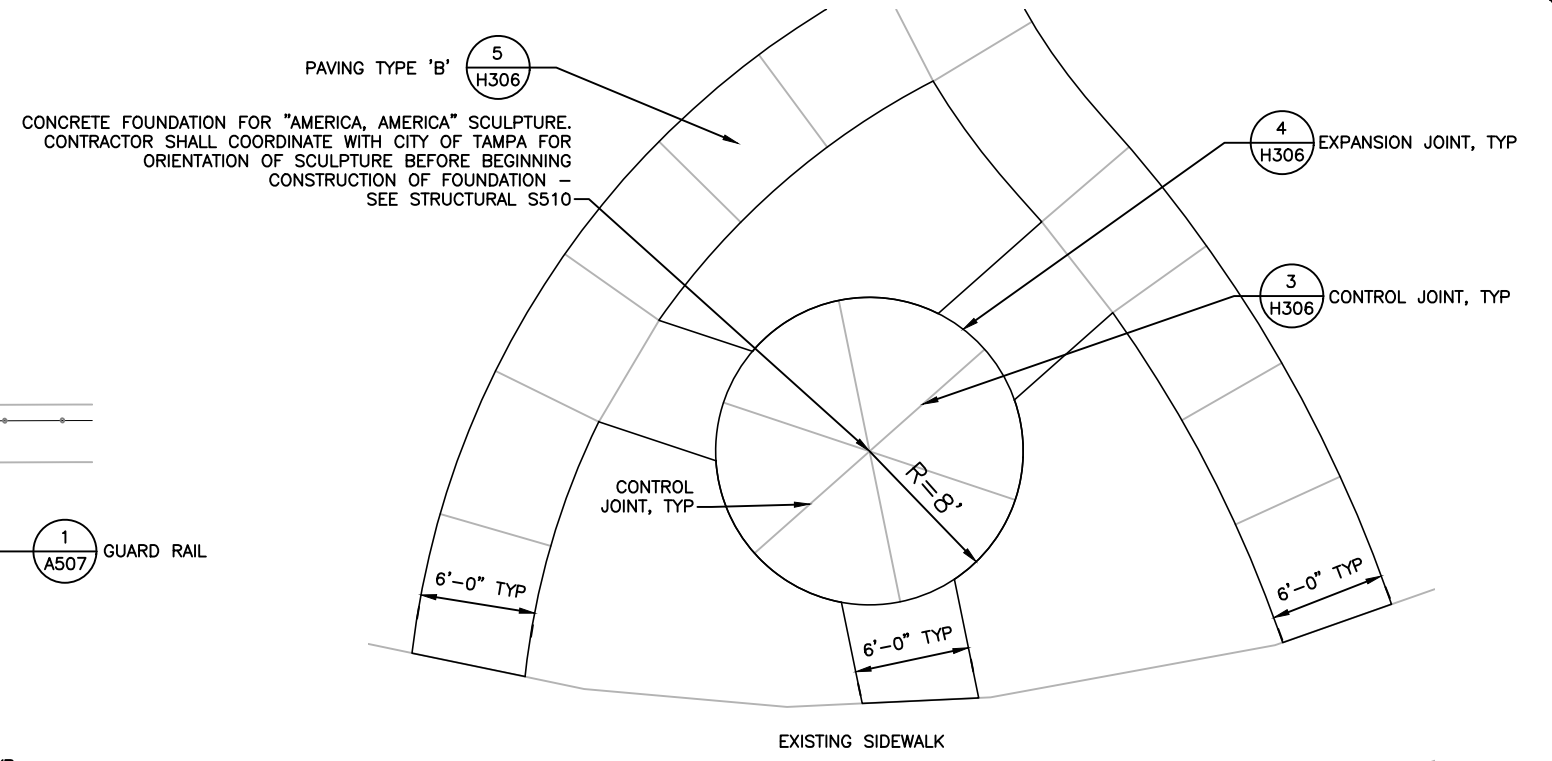
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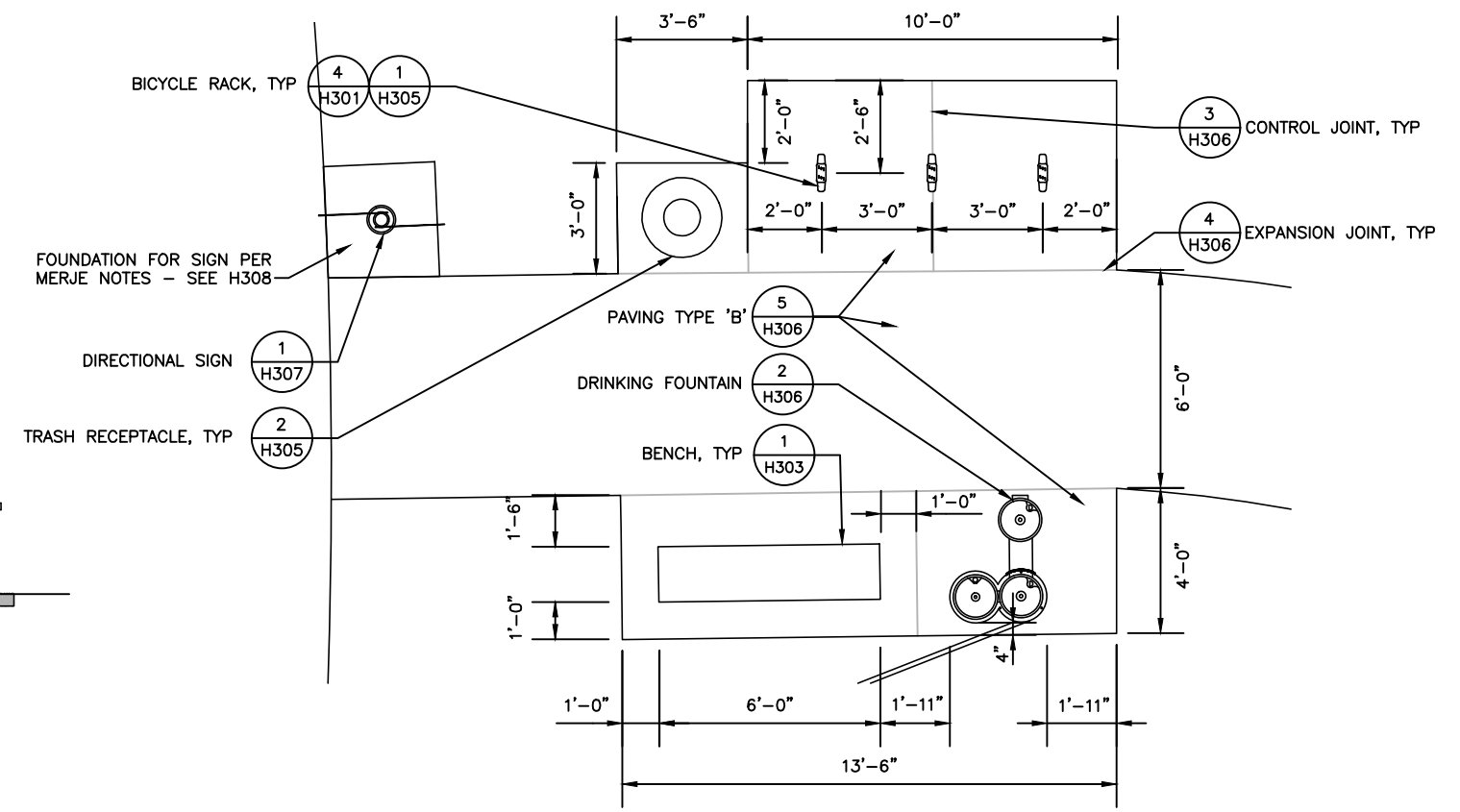
1 1"=10' RIVERSIDE SEATING AREA LAYOUT



4 1"=5' DRINKING FOUNTAIN DRAIN LAYOUT



2 1"=10' PUBLIC ART AREA LAYOUT



3 1"=5' DRINKING FOUNTAIN AREA LAYOUT

NO.	BY	DATE	DESCRIPTION

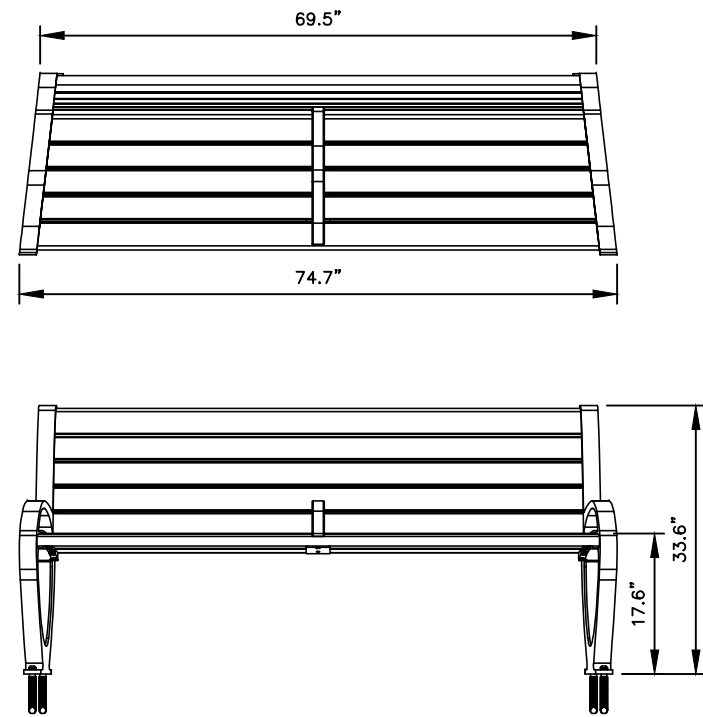


TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

HARDSCAPE DETAILS

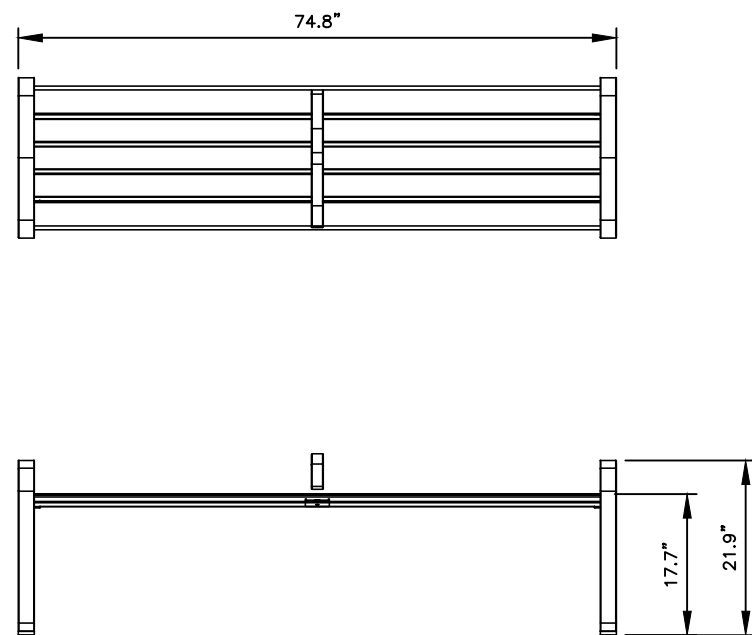
H302

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FL Reg. No. Sign Date print date



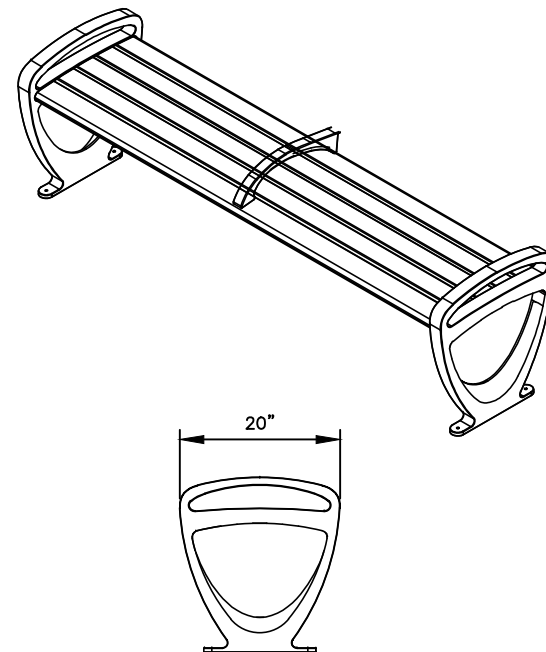
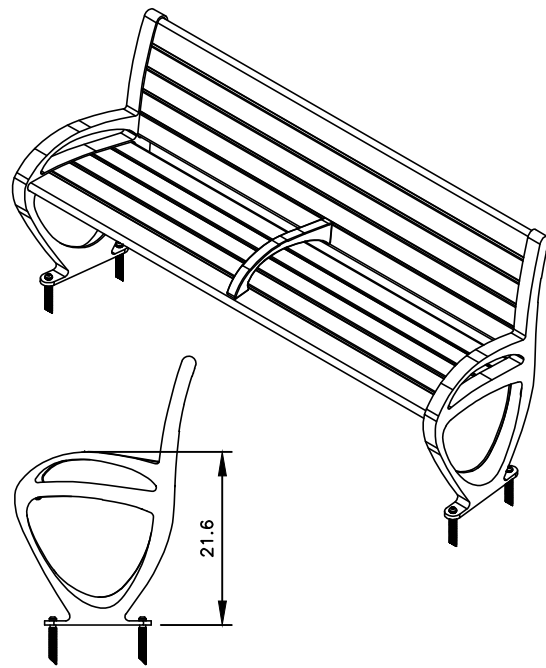
BACK OPTION

1 BENCH
NTS



BACKLESS OPTION

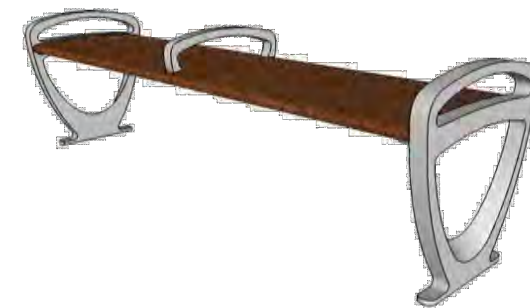
2 BACKLESS BENCH
NTS



INSPIRATION IMAGE

NOTES:

1. BENCHES SHALL BE TRIO BY FORMS + SURFACES, MODEL SBTRO-72BW (BACK) AND MODEL SBTRO-72NW OR APPROVED EQUAL. BENCHES SHALL HAVE ONE INTERMEDIATE ARMREST INSTALLED IN THE CENTER OF THE BENCHES.
2. SURFACE MOUNT BENCH TO CONCRETE PAD PER MANUFACTURER'S SPECIFICATIONS.
3. COLOR AND FINISH SHALL BE SILVER TEXTURE POWDER COATED. SLATS SHALL BE FSC 100% IPE HARDWOOD.
4. SUBMIT SHOP DRAWINGS FOR APPROVAL.



INSPIRATION IMAGE

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscape\hardscape_details.dwg Last Modified: Aug 29, 2014 - 12:28pm Plotted on: Sep 05, 2014 - 3:35pm by ncl_meyers

DRWN: NM				
DSGN: SP				
CHKD: PK				
APVD: DC				
DATE: 07/11/14				
JOB #: 12011325				
NO.	BY	DATE	DESCRIPTION	REVISIONS

URS URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 285-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

HARDSCAPE DETAILS

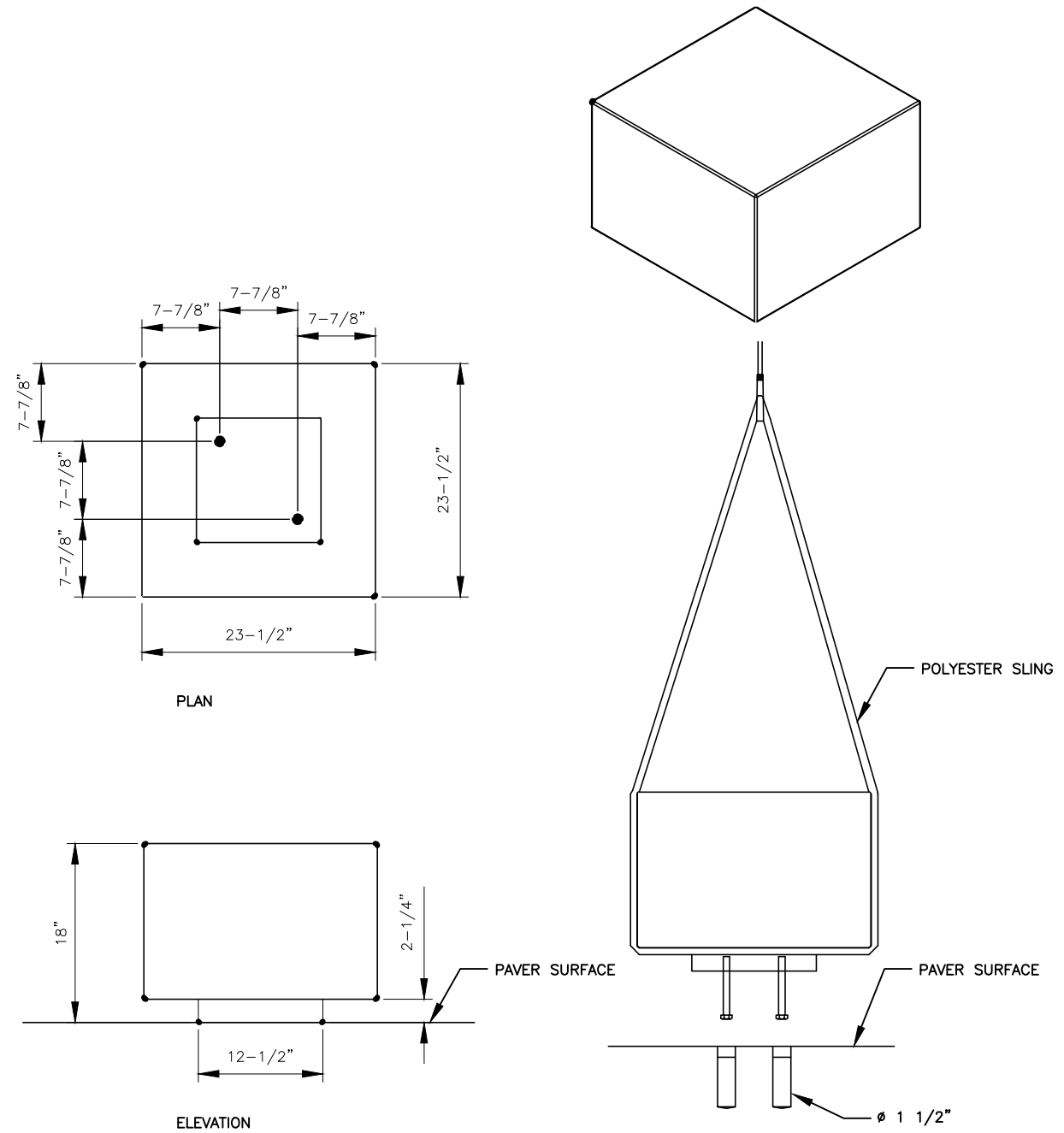
SHIRLEY PEARSALL, L.A.
Registered Professional
607
FL Reg. No. Sign Date

H303

print date



INSPIRATION IMAGE



- NOTES:**
1. BENCH SHALL BE SOCRATES BY LANDSCAPE FORMS OR APPROVED EQUAL, 24" LENGTH.
 2. INSTALLATION SHALL BE IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS FOR EMBEDDED INSTALLATION.
 3. COLOR SHALL BE GREY.
 4. CONTRACTOR TO STAKE LOCATION OF BENCH FOR APPROVAL PRIOR TO INSTALLATION.
 5. SUBMIT SHOP DRAWINGS FOR APPROVAL.

1 CUBE BENCH
NTS

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscape\landscape details.dwg Last Modified: Aug 29, 2014 - 12:28pm Plotted on: Sep 05, 2014 - 3:35pm by ncl_meyers

NO.	BY	DATE	DESCRIPTION

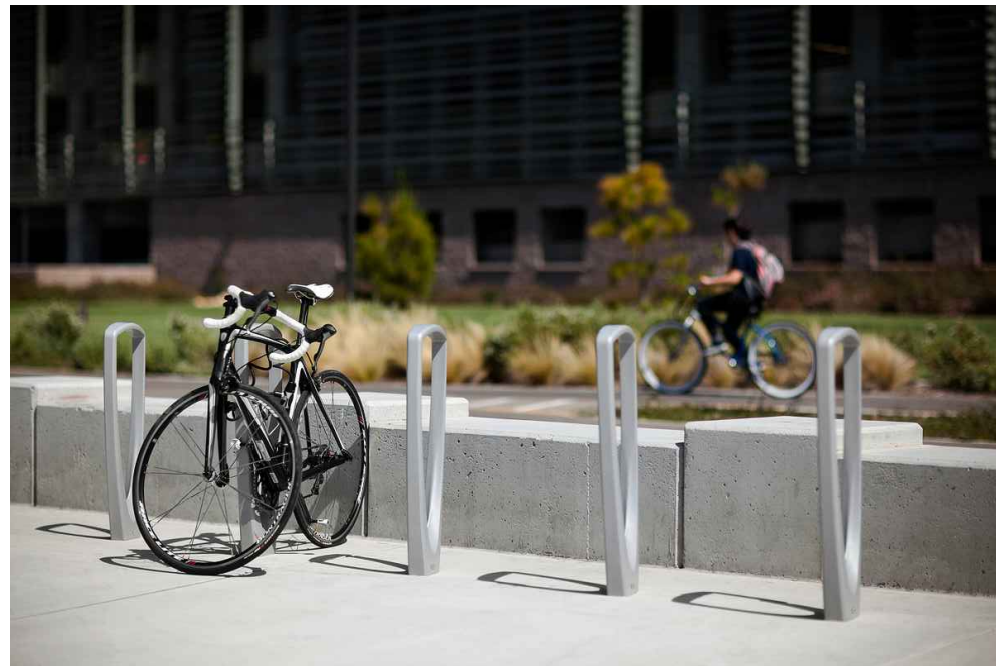
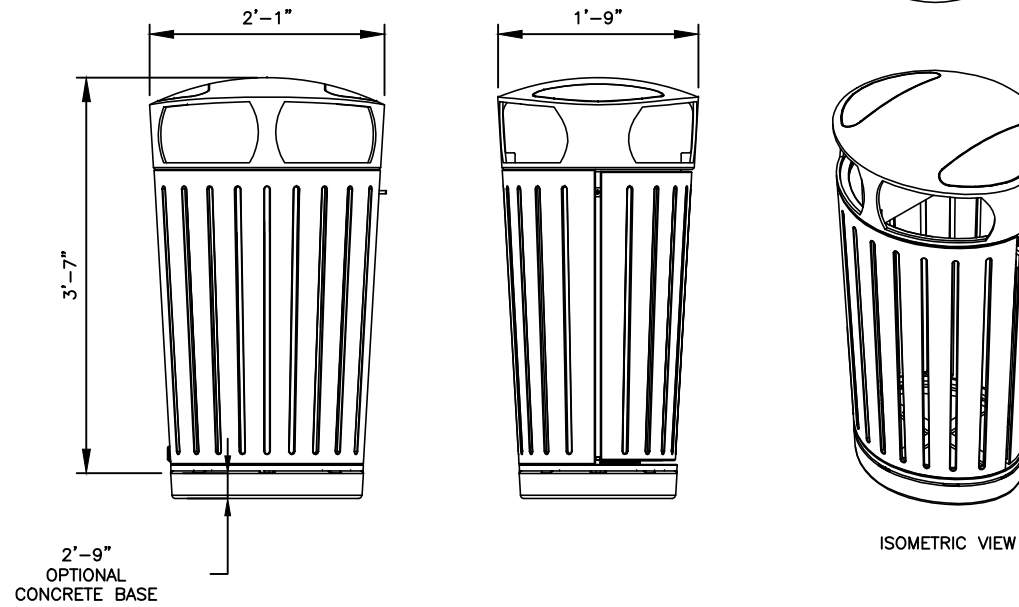
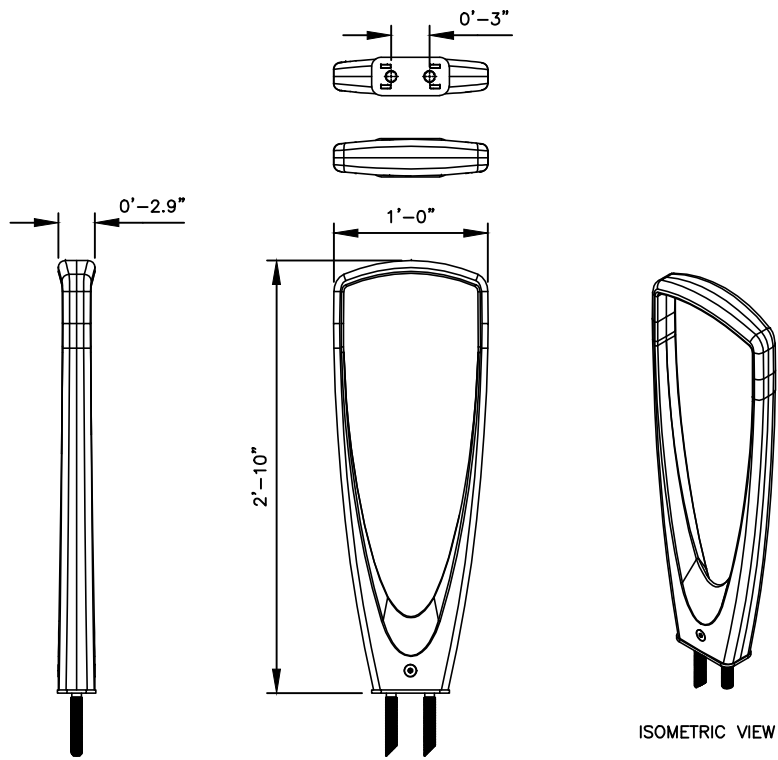
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Tampa, Florida 33607 (813) 285-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

HARDSCAPE DETAILS

SHIRLEY PEARSALL, L.A.
Registered Professional
607
FL Reg. No. Sign Date

H304
print date



INSPIRATION IMAGE



INSPIRATION IMAGE

NOTES:

1. BICYCLE RACK SHALL BE TRIO BY FORMS + SURFACES, MODEL SKTRO OR APPROVED EQUAL.
2. TRASH RECEPTACLE SHALL BE DISPATCH BY FORMS + SURFACES, MODEL SLDIS-136 WITH CONCRETE BASE AND LITTER OPENING OPTION OR APPROVED EQUAL.
3. SURFACE MOUNT BICYCLE RACK AND LITER RECEPTACLE TO CONCRETE PAD (SEE SHEET H107 FOR SIZE) PER MANUFACTURER'S SPECIFICATIONS.
4. COLOR AND FINISH OF BIKE RACK AND TRASH RECEPTACLE SHALL BE SILVER TEXTURE POWDER COATED.
5. SUBMIT SHOP DRAWINGS FOR APPROVAL.

① **BICYCLE RACK**
NTS

② **TRASH RECEPTACLE**
NTS

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscape\hardscape details.dwg Last Modified: Aug 29, 2014 - 12:28pm Plotted on: Sep 05, 2014 - 3:35pm by ncl_myers

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DSGN: SP				
CHKD: PK				
APVD: DC				
DATE: 07/11/14				
JOB #: 12011325				

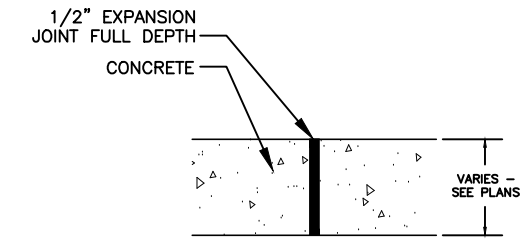
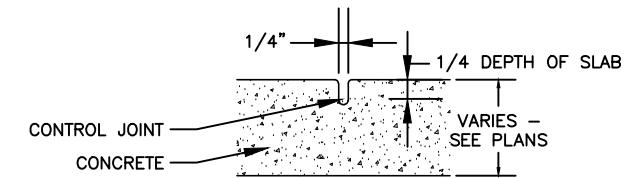
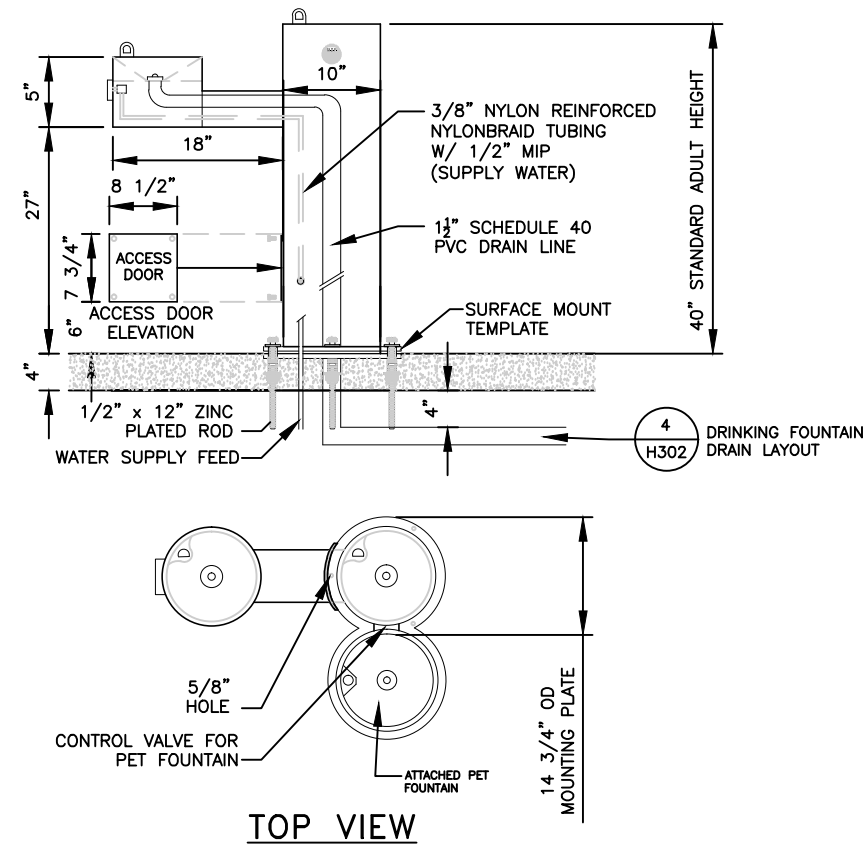
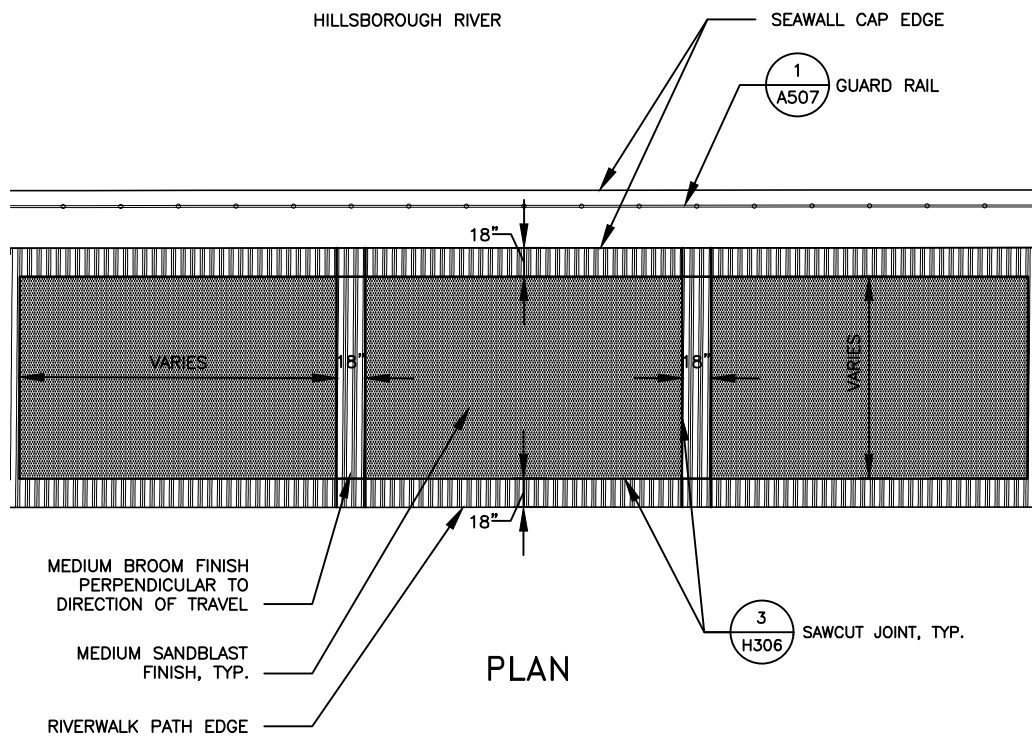


TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
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HARDSCAPE DETAILS

SHIRLEY PEARSALL, L.A.
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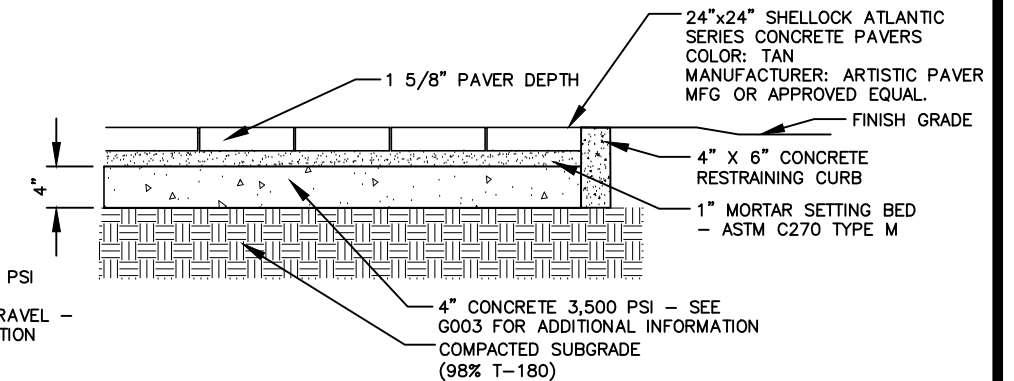
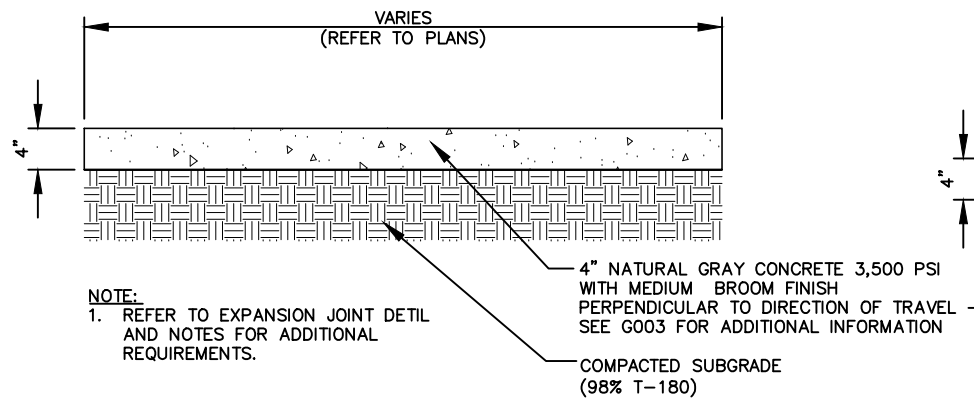
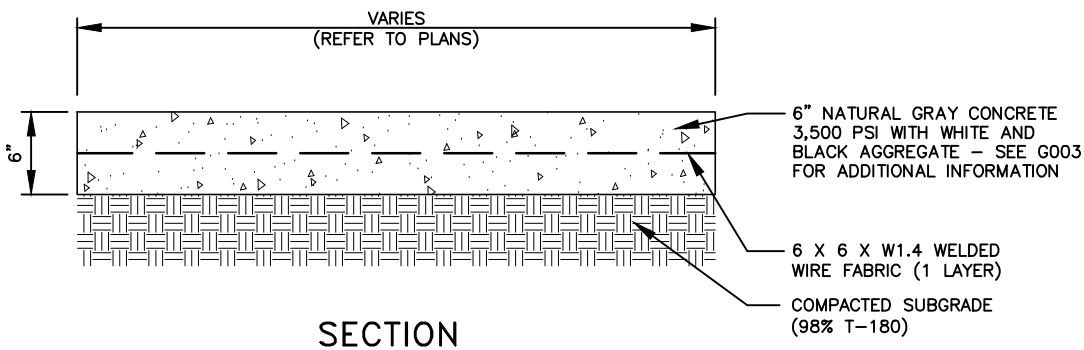
H305



NOTE:
 1. EXPANSION JOINT MATERIAL SHALL BE CLOSED CELL NEOPRENE MATERIAL AT MAXIMUM 50' SPACING.
 2. CONTRACTOR TO SUBMIT JOINTING PLAN FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT AND ENGINEER.

- NOTES:
 1. FOUNTAIN SHALL BE BY MOST DEPENDABLE FOUNTAINS, INC. MODEL 440 SMSS, OR APPROVED EQUAL.
 2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 3. FINISH TO BE POWDERCOATED IN COLOR TO MATCH STAINLESS STEEL.
 4. SUBMIT SHOP DRAWINGS FOR APPROVAL.

2 NTS DRINKING FOUNTAIN WITH PET FOUNTAIN



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DRWN: NM				
DSGN: SP				
CHKD: PK				
APVD: DC				
DATE: 07/11/14				
NO.	BY	DATE	DESCRIPTION	
REVISIONS				

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 7650 W. Courtney Campbell Cswy.
 Tampa, Florida 33607 (813) 285-1711
 Engineering Business No. 00000002

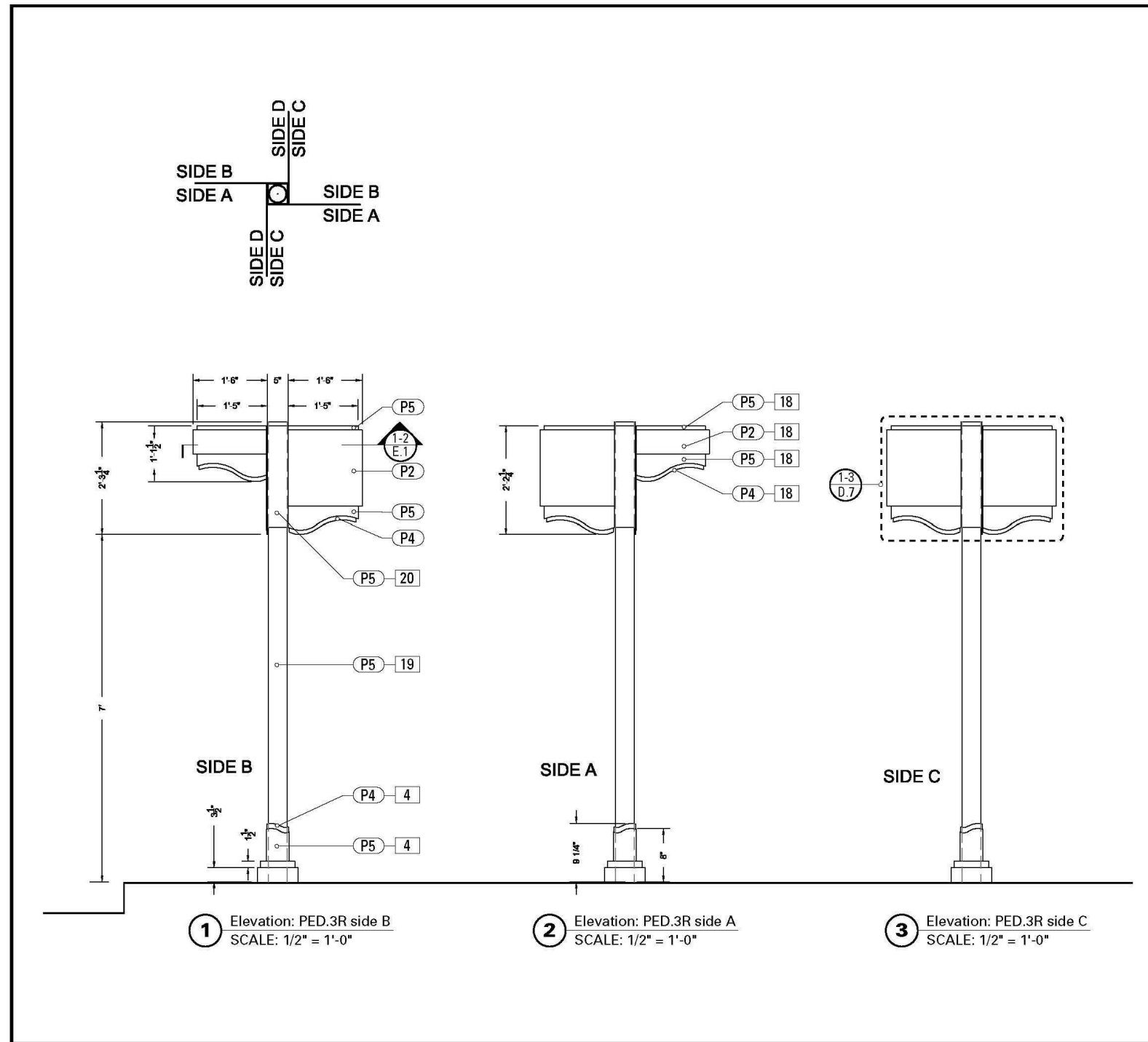
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

HARDSCAPE DETAILS

SHIRLEY PEARSALL, LA
 Registered Professional
 607
 FL Reg No. Sign Date print date

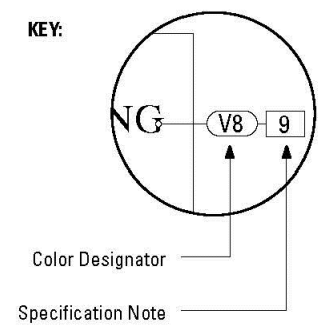
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Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscapes\hardscapes\details\sig List Modified: Aug 23, 2014 - 12:28pm Plotted on: Sep 05, 2014 - 3:35pm by ncl_meyers



SPECIFICATIONS SIGN TYPE: PED.3R FUNCTION: Pedestrian Directional	
<p>4. FABRICATED BASE FABRICATION PROCESS: Custom-Cut/Extruded/Welded MATERIAL: 1/4" thick aluminum BACKGROUND PROCESS: Surface painted - all exposed areas TOPCOAT: MPC Acrylic Polyurethane Satin MAP EDGES: Routed, finished smooth MOUNTING: Mechanically fastened to post with tamper resistant hardware</p> <p>18. 1/8" ALUMINUM PANEL MATERIAL: 1/8" Thick Alum. FABRICATION Process: Router Cut FASTENER: Mechanically fasten to fabricated sign box SURFACE PROCESS: Refer to color page EDGES: Routed, finished smooth COLOR: Custom as noted TOPCOAT: MPC Acrylic Polyurethane Satin MAP CLEARCOAT: MPC Acrylic Polyurethane 42228 MAP Clear Satin Vinyl Graphics applied to front face of Sign Panel. See Color Page for Specifications.</p> <p>19. 4" ROUND POST FABRICATION PROCESS: Custom /Extruded/Welded MATERIAL: 4" diameter x 1/4" thick aluminum BACKGROUND PROCESS: Surface painted - all exposed areas TOPCOAT: MPC Acrylic Polyurethane Satin MAP EDGES: Routed, finished smooth FOOTER: J-Bolt</p> <p>20. 5" SQUARE SLEEVE MATERIAL: 1/4" thick Aluminum FABRICATION PROCESS: 5" Extruded square tube EDGES: Smooth COLOR: custom, as noted SURFACE PROCESS: Paint all exposed surfaces TOPCOAT: MPC Acrylic Polyurethane Satin MAP CLEARCOAT: MPC Acrylic Polyurethane 42228 MAP Clear Satin FASTENER: Mechanically fastened to pole</p>	
<p>NOTES</p> <p>1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.</p> <p>2. Welds: All welds shall be ground smooth, paint all seams.</p> <p>3. Hardware: All exposed hardware shall be tamper proof fasteners.</p> <p>4. All exposed edges painted to match adjacent face.</p>	
<p>ENVIRONMENTS & EXPERIENCES</p> <p>merje</p> <p>The Widener Building, Suite 1500 One South Penn Square Philadelphia, PA 19107 T 215.699.4407 F 215.636.9989 www.merjedesign.com</p>	<p>CLIENT / PROJECT</p> <p>Tampa Riverwalk Wayfinding & Interpretive Signage Program Tampa, FL</p> <p>PROJECT NO: PHI.31370.000</p>
<p>DATE: 08/01/2009</p> <p>DRAWN BY: KB</p> <p>REVISIONS: 06/06/2011</p> <p><small>These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions in present. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.</small></p>	<p>SUBCONSULTANT</p> <p>SHEET TITLE</p> <p>PED.3R Pedestrian Directional</p> <p>SHEET NO.</p> <p>C.17</p>

C. Design Intent Drawings



The Color Designator Chart is found in the Graphic Standards section A under "Colors". The Specification Notation is found on the same page as the drawings.

1 NTS DIRECTIONAL SIGN - AS DESIGNED BY MERJE

CONTRACTOR TO OBTAIN THE WAY FINDING AND INTERPRETIVE SIGNAGE DESIGN FROM THE CITY OF TAMPA. DRAWINGS AND SPECIFICATIONS PREPARED BY MERJE ARE SHOWN ARE FOR REFERENCE ONLY.

NOTES:

1. TEXT AND SIGN CONTENT TO BE PROVIDED BY THE CITY OF TAMPA.
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR PROPOSED FOUNDATION DESIGN FOR APPROVAL.
3. COORDINATE WITH THE CITY OF TAMPA FOR SPECIFIC FINISHES.

DRWN: NM	
DSGN: SP	
CHKD: PK	
APVD: DC	
DATE: 07/11/14	
OB #: 12011325	



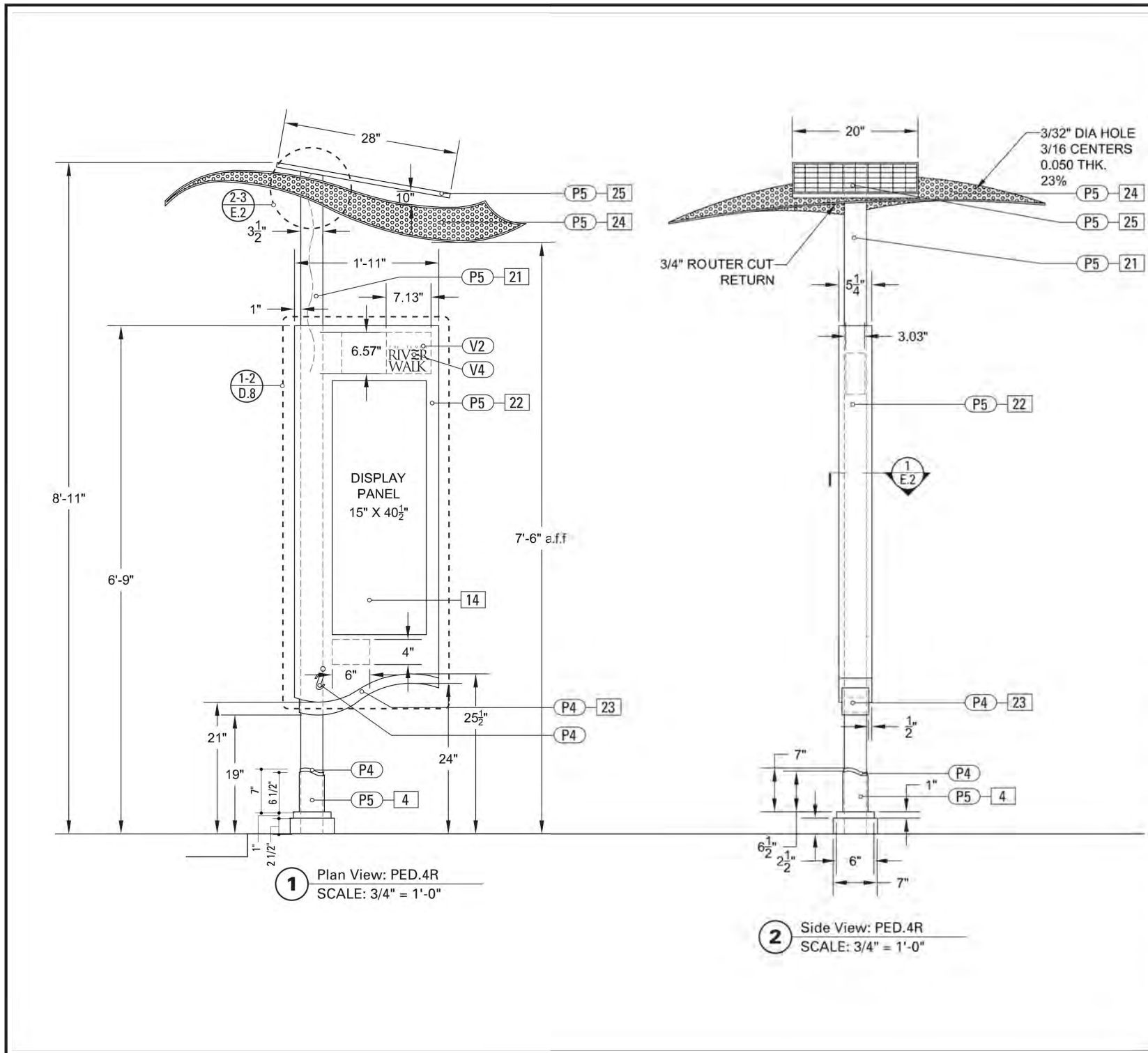
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

HARDSCAPE DETAILS

SHIRLEY PEARSALL, LA
 Registered Professional
 607
 FL Reg No. Sign Date

H307
 print date

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscapes\hardscapes\details\sig.Lant Modified: Aug 29, 2014 - 12:28pm Plotted on: Sep 05, 2014 - 3:35pm by ncl_meyers



SPECIFICATIONS	SIGN TYPE: PED.4R	FUNCTION: Pedestrian Kiosk								
<p>4. FABRICATED BASE FABRICATION PROCESS: Custom - Cut/Extruded/Welded MATERIAL: 1/4" thk. aluminum BACKGROUND PROCESS: Surface painted - all exposed areas TOPCOAT: MPC Acrylic Polyurethane Satin MAP EDGES: Routed, finished smooth MOUNTING: Mechanically fastened to post with tamper resistant hardware</p>										
<p>14. MAP INSET PANEL MATERIAL: 1/8" thk. Lexane panel BACKGROUND PROCESS: Sub-surface digitally printed 4-color map graphic</p>										
<p>21. 4" ROUND POST FABRICATION PROCESS: Custom /Extruded/Welded MATERIAL: 4" diameter x 1/4" thk. aluminum BACKGROUND PROCESS: Surface painted - all exposed areas TOPCOAT: MPC Acrylic Polyurethane Satin MAP EDGES: Routed, finished smooth FOOTER: J-Bolt</p>										
<p>22. SIGN PANEL MATERIAL: 1/8" Thk. Alum. FABRICATION PROCESS: Router Cut Surface Process: Paint all exposed surfaces Edges: Routed, finished smooth Color: Custom as noted Topcoat: MPC Acrylic Polyurethane Satin MAP Clearcoat: MPC Acrylic Polyurethane 42228 MAP Clear Satin Fastener: Mechanically fasten to fabricated sign box Vinyl Graphics applied to front face of Sign Panel. See Color Page for Specifications.</p>										
<p>23. FABRICATED BOX MATERIAL: 1/8" Thk. Alum.</p>										
<p>24. CANOPY MATERIAL: Perforated Aluminum - 3/32" dia. holes, 3/16 centers, .050 thick, 23% FABRICATION PROCESS: Custom SURFACE PROCESS: Paint all exposed surfaces EDGES: Routed, finished smooth COLOR: Custom as noted LIGHTING: Exterior Grade (dry, damp and wet conditions), Linear, Low Profile, Low Voltage LED lighting TOPCOAT: MPC Acrylic Polyurethane Satin MAP CLEARCOAT: MPC Acrylic Polyurethane 42228 MAP Clear Satin FASTENER: Mechanically fastened and welded to Post</p>										
<p>25. SOLAR POWER SOLAR PANEL: BP 350J (50 Watt) CONTROLLER: Morning star SL-10 BATTERY: AGM 12 Volt (7 amp hour) LED: CAO Group STD white (Luxem Bright)</p>										
<p>NOTES</p> <p>1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication.</p> <p>2. Welds: All welds shall be ground smooth, paint all seams.</p> <p>3. Hardware: All exposed hardware shall be tamper proof fasteners.</p> <p>4. All exposed edges: painted to match adjacent face.</p>										
<p>ENVIRONMENTS & EXPERIENCES</p> <p>merje</p> <p>The Widener Building, Suite 1500 One South Penn Square Philadelphia, PA 19107 T 215.599.4407 F 215.636.9989 www.merjedesign.com</p>		<p>CLIENT / PROJECT</p> <p>Tampa Riverwalk Wayfinding & Interpretive Signage Program Tampa, FL</p>								
<p>SUBCONSULTANT</p>		<p>PROJECT NO. PHI.31370.000</p>								
<p>DATE 08/01/2009</p>	<p>DRAWN BY: KB</p>	<p>SHEET TITLE</p> <p>PED.4R Pedestrian Map</p>								
<p>These drawings are meant for DESIGN INTENT ONLY and are not for construction. Contractor shall verify and be responsible for all dimensions and conditions of the job. Contractor shall be familiar with the site and conditions it presents. This office must be notified of any variations from the dimensions and conditions shown on this drawing. Shop drawings and details must be submitted to this office for approval prior to proceeding with fabrication. All copy shall be proofread by client and legal requirements checked by legal department.</p>										
<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		NO.	BY	DATE	DESCRIPTION					<p>SHEET NO.</p> <p style="font-size: 24pt; font-weight: bold; text-align: center;">C.19</p>
NO.	BY	DATE	DESCRIPTION							

1 NTS **MAP SIGN - AS DESIGNED BY MERJE**

CONTRACTOR TO OBTAIN THE WAY FINDING AND INTERPRETIVE SIGNAGE DESIGN FROM THE CITY OF TAMPA. DRAWINGS AND SPECIFICATIONS PREPARED BY MERJE ARE SHOWN ARE FOR REFERENCE ONLY.

- NOTES:**
- TEXT AND SIGN CONTENT TO BE PROVIDED BY THE CITY OF TAMPA.
 - CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR PROPOSED FOUNDATION DESIGN FOR APPROVAL.
 - COORDINATE WITH THE CITY OF TAMPA FOR SPECIFIC FINISHES.

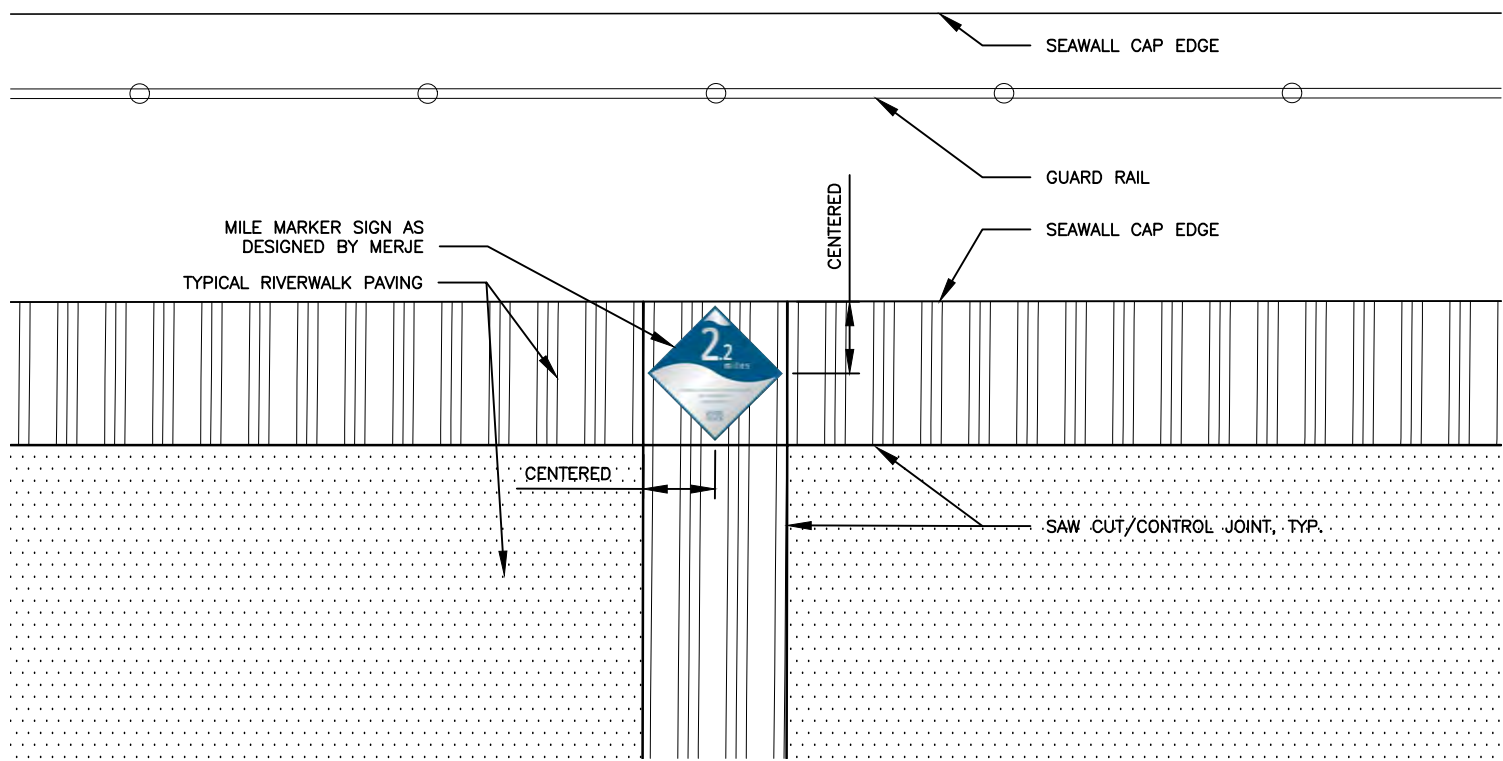
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CHND: PK				
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DATE: 07/11/14				
OB #: 12011325				



TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

HARDSCAPE DETAILS

<p>SHIRLEY PEARSALL, LA Registered Professional 607 FL Reg. No. Sign Date</p>	<p>H308</p>
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1 TYPICAL MILE MARKER SIGN LOCATION PLAN

SIGN LOCATIONS TO BE COORDINATED WITH CITY OF TAMPA FOR BEGINNING AND SIGN INTERVAL DISTANCES.

NOTES:

1. CONTRACTOR TO OBTAIN MILE MARKER SIGNS FROM THE CITY OF TAMPA.
2. THE WAY FINDING SIGNAGE DRAWINGS AND SPECIFICATIONS PREPARED BY MERJE ARE SHOWN FOR REFERENCE ONLY.
3. CONTRACTOR TO SUBMIT PLACEMENT AND INSTALLATION SHOP DRAWINGS FOR APPROVAL.

1 Elevation: MILE.1R
SCALE: 1/2" = 1'-0"

2 INSTALL: MILE.1R
SCALE: NA

SPECIFICATIONS	SIGN TYPE: MILE.1R	FUNCTION: Mile Marker
<p>2.2 MILE PLaque</p> <p>NATIONAL 1/4" thick zinc plate FABRICATOR: Precision Sign Co. Etched and Welded plate MOUNTING: Bolted into the ground SURFACE FINISH: Refer to color page EDGES: Beveled, finished smooth COLOR: Custom as noted</p>		
<p>NOTES</p> <p>1. Fabricator to verify the mounting conditions and provide a detail drawing for each mounting situation, prior to fabrication. 2. Fabricator must obtain approval from the Designer or Client for placement prior to fabrication. 3. Mount all signs with the ground smooth, paint all signs. 4. Fabricator All exposed hardware shall be factory proof finished. 5. All exposed edges painted to match adjacent face.</p>		
<p>ENVIRONMENTS & EXPERIENCES</p> <p>merje The Watershed Building, Suite 1100 One South Park Square Philadelphia, PA 19107 T 215.599.4407 F 215.599.9999 www.merjedesign.com</p>		<p>CLIENT / PROJECT</p> <p>Tampa Riverwalk Wayfinding & Interpretation Signage Program Tampa, FL</p>
<p>SUBCONSULTANT</p> <p>DATE: 08/01/2009 DRAWN BY: KB REVISIONS: 06/06/2011 02/25/2014</p>		<p>PROJECT NO. PH1.31370.000</p> <p>SHEET TITLE</p> <p>MILE.1R MILE MARKER</p> <p>SHEET NO.</p> <p>C.21</p>

MILE MARKERS – AS DESIGNED BY MERJE

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NO.	BY	DATE	DESCRIPTION

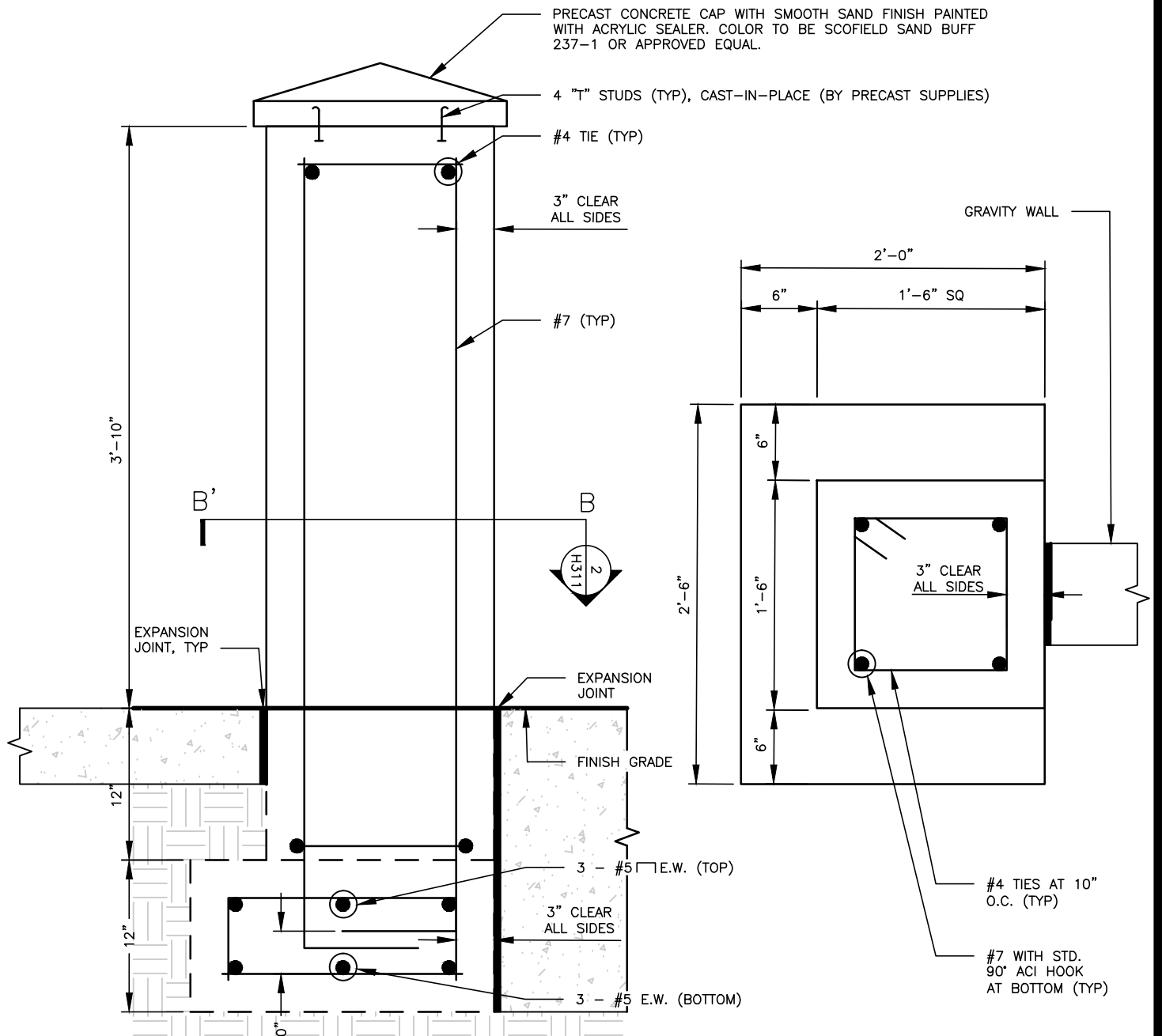
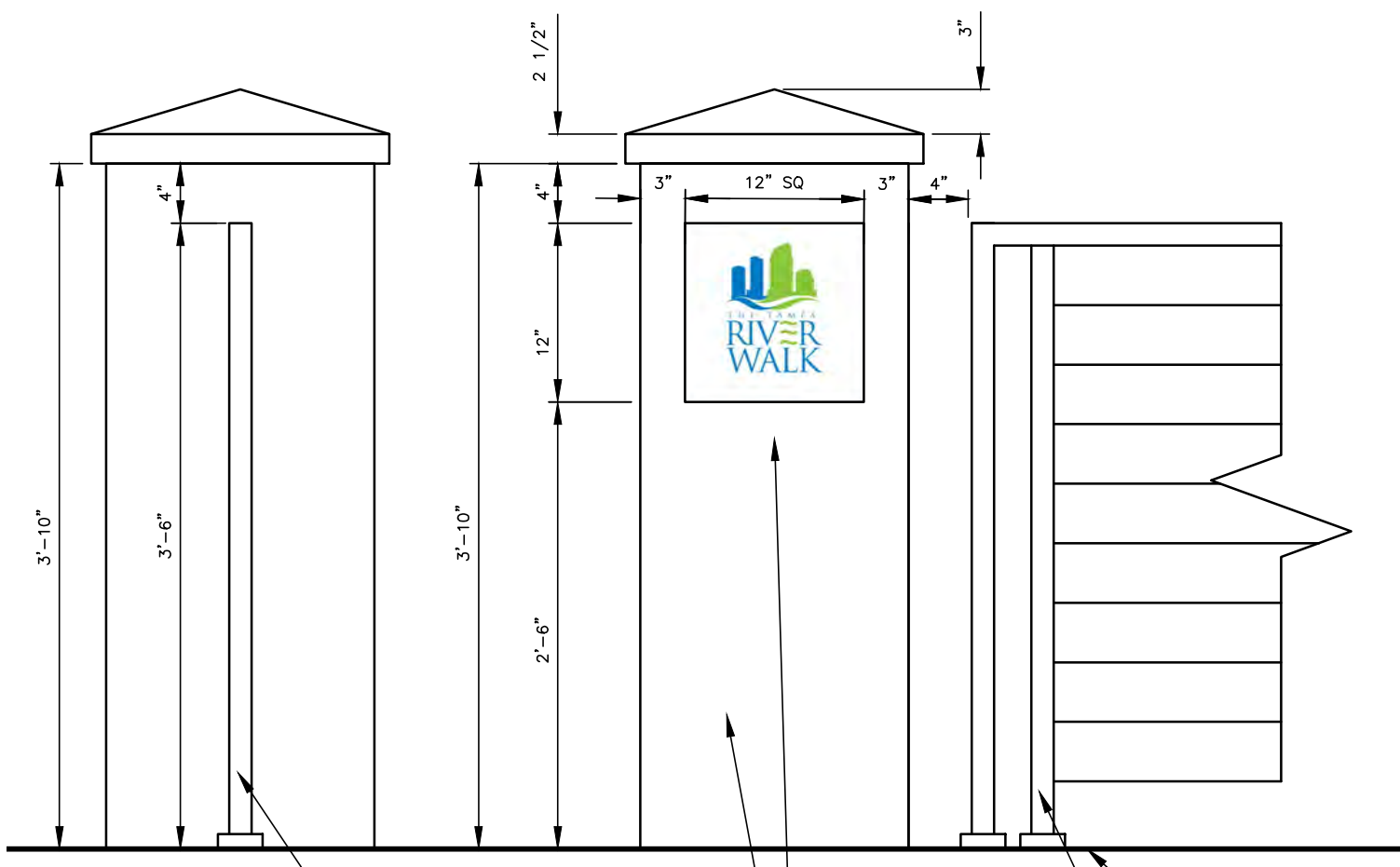
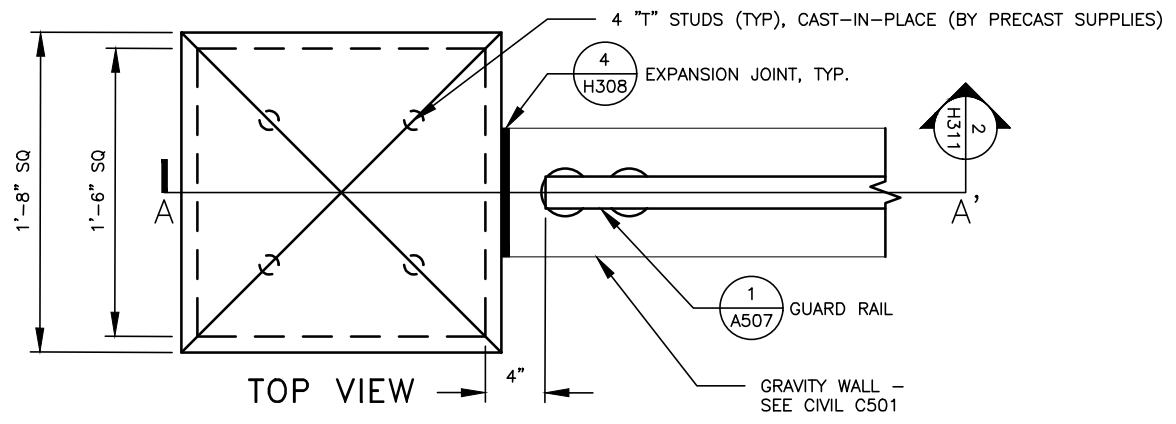
URS URS Corporation Southern
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 Tampa, Florida 33607 (813) 285-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
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SHIRLEY PEARSALL, L.A.
 Registered Professional
 607
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H310
 print date



PROPOSED GUARD RAIL ON GRAVITY WALL

ELEVATION

IDENTIFICATION SIGNAGE TO BE PROVIDED BY THE CONTRACTOR BASED ON THE DESIGN AND CONTENT PROVIDED BY THE CITY OF TAMPA - TO BE RECESSED INTO COLUMN ON EAST AND WEST SIDES ONLY

COLORED CONCRETE COLUMN WITH LIGHT SANDBLAST FINISH TO MATCH GRAVITY WALL

FINISH GRADE

1 A507 GUARD RAIL ON GRAVITY WALL

1 TYPICAL NORTH AND SOUTH END COLUMNS
1"=1'-0"

2 END COLUMN FOOTING
1"=1'-0"

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscape\landscape details.dwg Last Modified: Aug 29, 2014 - 12:28pm Plotted on: Sep 03, 2014 - 3:35pm by ncl_meyers

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JOB #: 12011325				

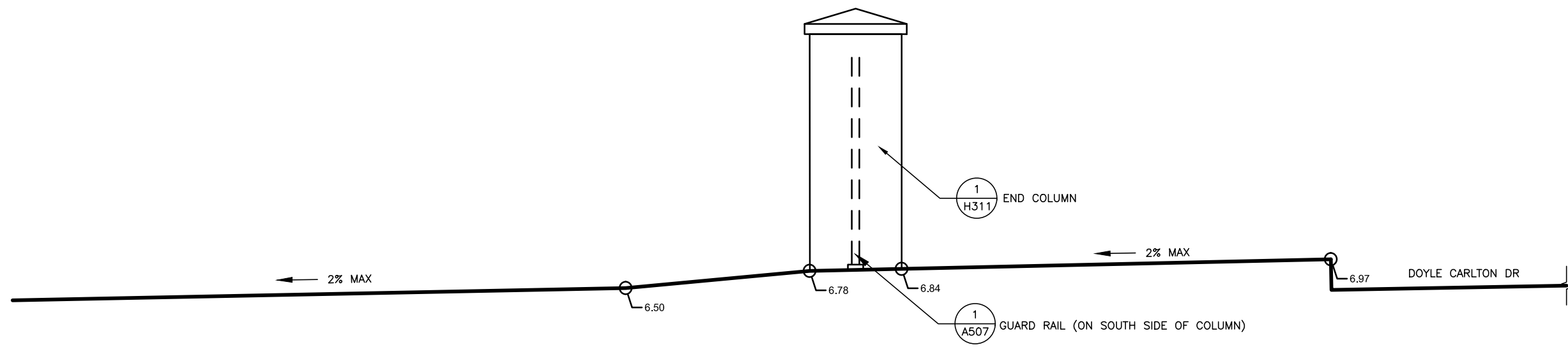
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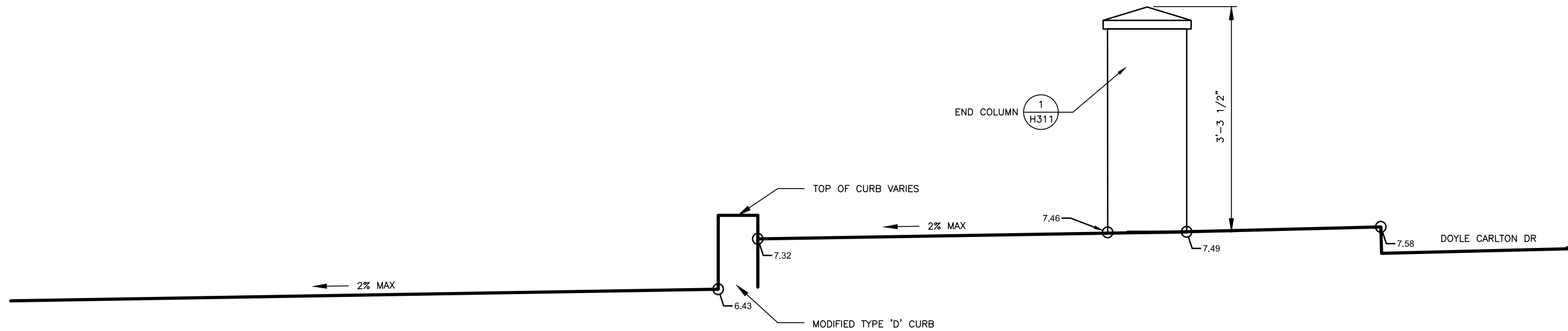
HARDSCAPE DETAILS

H311

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1 SOUTH END COLUMN - SOUTH OF I-275 (VIEW LOOKING NORTH) - SEE SHEET C135 FOR MORE INFORMATION
1"=2'-0"



2 NORTH END COLUMN - NORTH OF I-275 (VIEW LOOKING NORTH) - SEE SHEET C135 FOR MORE INFORMATION
1"=2'-0"

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscape\landscape details.dwg Last Modified: Aug 29, 2014 - 12:28pm Plotted on: Sep 05, 2014 - 3:35pm by ncl_mjrs

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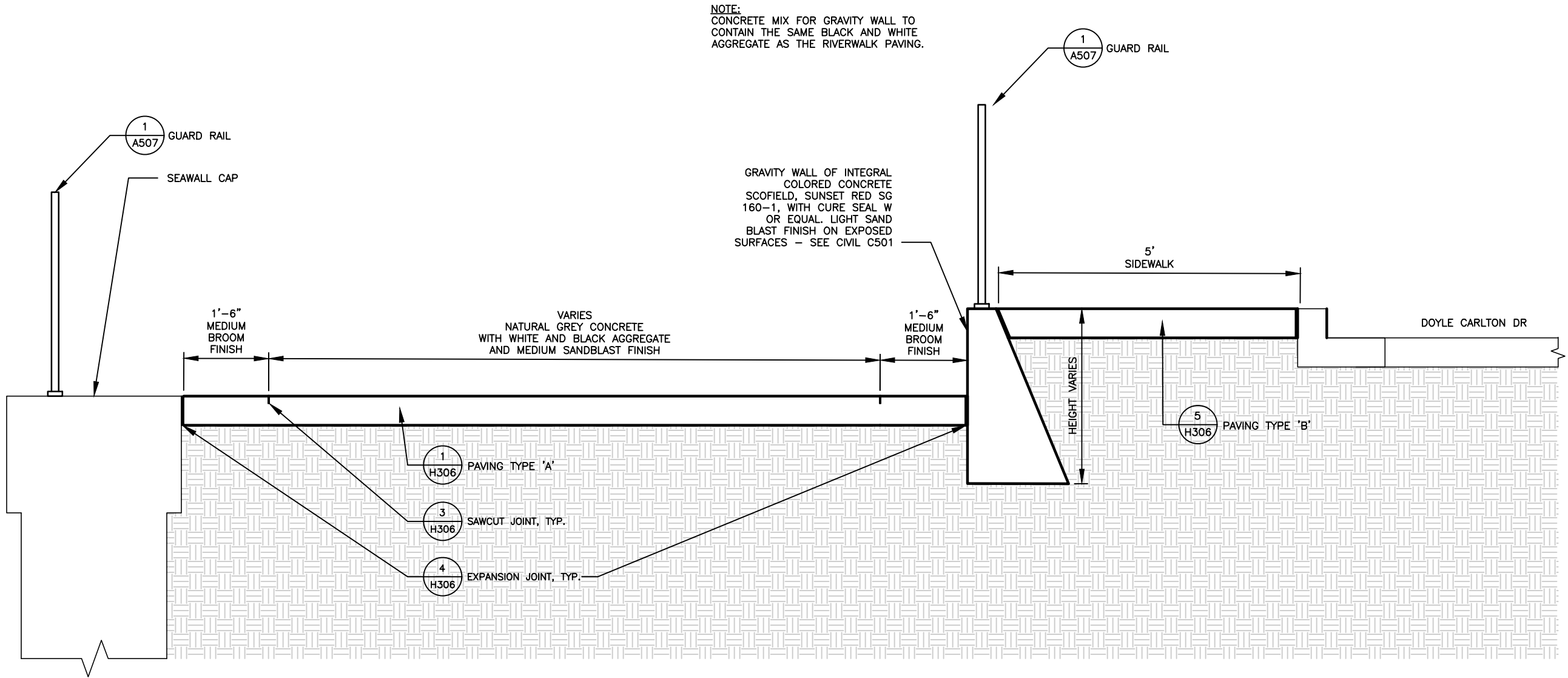
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
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Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscape\hardscape details.dwg Last Modified: Aug 29, 2014 - 12:28pm Plotted on: Sep 03, 2014 - 3:35pm by ncl_mjms



1 TYPICAL HARDSCAPE SECTION FOR SURFACE FINISHES ALONG GRAVITY WALL
 1" = 2'-0"

NO.	BY	DATE	DESCRIPTION

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 Tampa, Florida 33607 (813) 285-1711
 Engineering Business No. 00000002

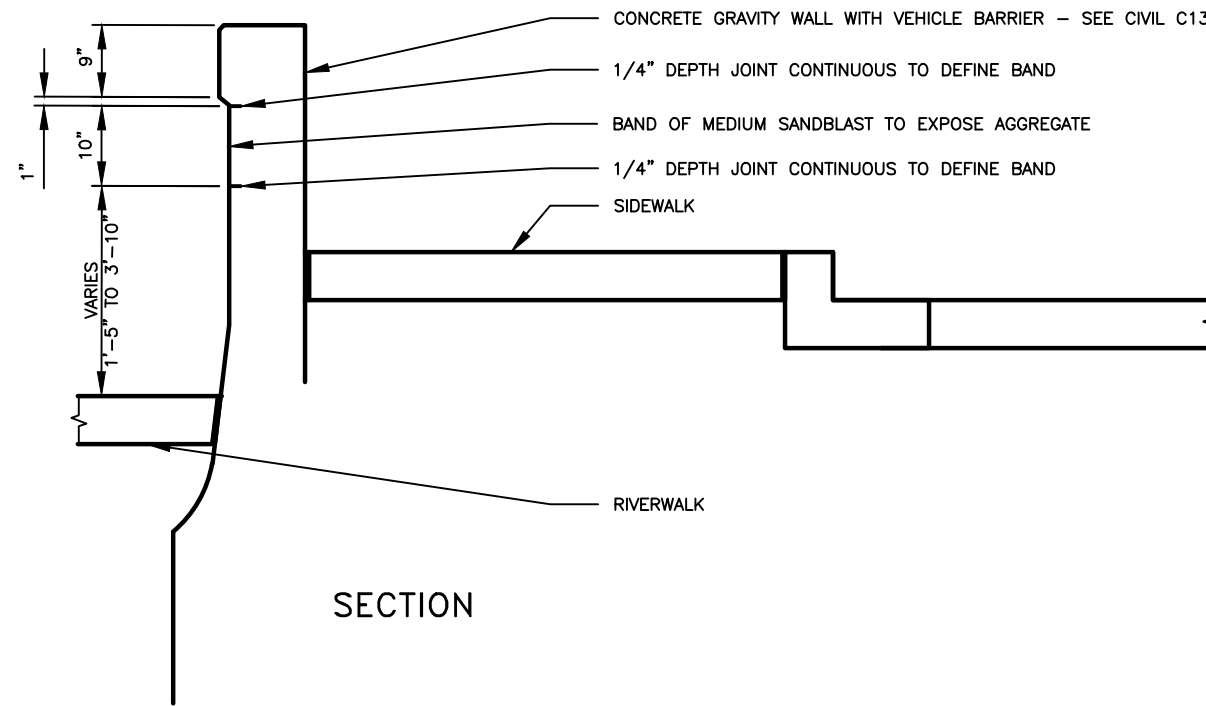
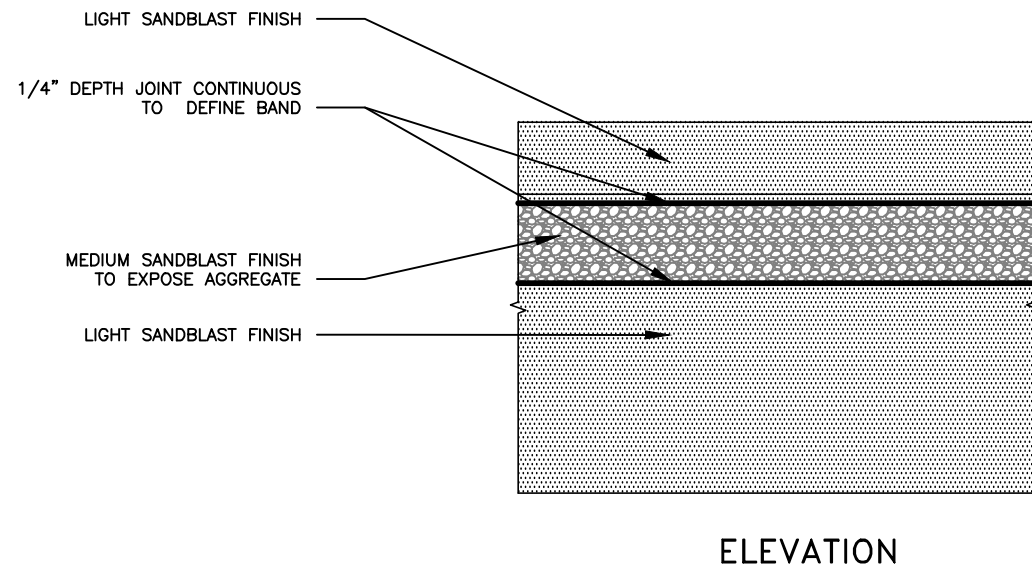
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Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscape\hardscape details.dwg Last Modified: Aug 29, 2014 - 12:28pm Plotted on: Sep 05, 2014 - 3:35pm by ncl_mjrs



- NOTES:
1. INTEGRAL COLOR: SCOFIELD, SUNSET RED (SG160-1) WITH CURESEAL W OR EQUAL
 2. AGGREGATE TO MEET FDOT STANDARD SPECIFICATION 346.2.4 FOR CONCRETE EXCEPT AGGREGATE SHALL BE SIZE NO. 89 STONE MIX OF LIMESTONE AND BLACK GRANITE. INTENT IS FOR THE LARGER AGGREGATE TO BE WHITE AND SMALLER AGGREGATE TO BE BLACK.

1 TYPICAL HARDSCAPE SECTION FOR SURFACE FINISHES ALONG GRAVITY WALL WITH VEHICLE BARRIER
 1"=2'-0" SEE CIVIL C136-C138

DRWN: NM				
DSGN: SP				
CHKD: PK				
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DATE: 07/11/14				
NO.	BY	DATE	DESCRIPTION	
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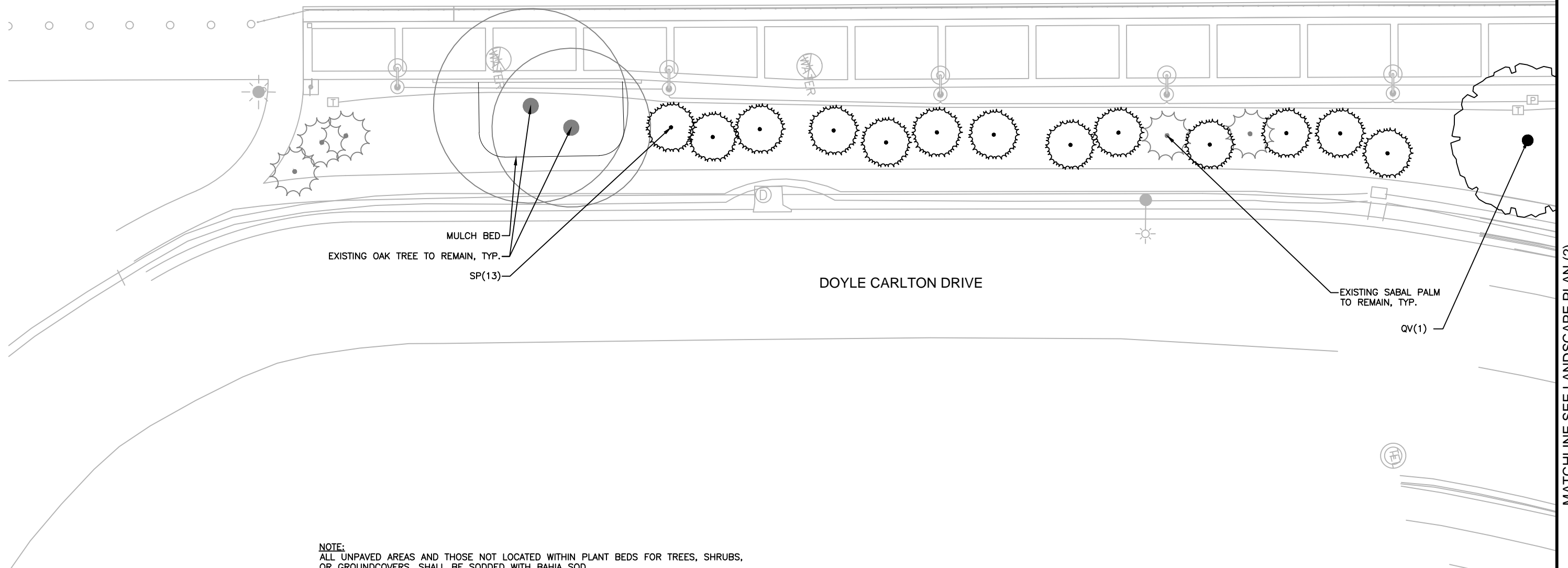
SHIRLEY PEARSALL, L.A.
 Registered Professional
 607
 FL Reg. No. Sign Date

H314

print date

HILLSBOROUGH RIVER

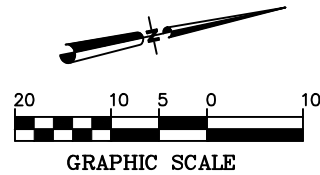
DOYLE CARLTON DRIVE



NOTE:
 ALL UNPAVED AREAS AND THOSE NOT LOCATED WITHIN PLANT BEDS FOR TREES, SHRUBS,
 OR GROUNDCOVERS, SHALL BE SODDED WITH BAHIA SOD.

PLANT KEY:

- CC = CALLISTEMON CITRINUS
- QV = QUERCUS VIRGINIANA
- SR = STRELITZIA REGINAE
- SS = SENNA SURATTENSIS
- CSV = CITRUS X SINENSIS 'VALENCIA'
- SP = SABAL PALMETTO
- DV = DIETES VEGETA
- JM = JASMINUM MULTIFLORUM
- MC = MUHLENBERGIA CAPILLARIS
- ND = NERIUM OLEANDER 'DWARF'
- PSA = PENNISETUM SETACEUM 'ALBA'
- TA = TRACHELOSPERMUM ASIATICUM
- ZP = ZAMIA PUMILA



MATCHLINE SEE LANDSCAPE PLAN (2)

Drawing Name: S:\Projects\Tampa Riverwalk\Doyle Carlton\Production\Landscapes\Landscapes.dwg Last Modified: Sep 15, 2014 - 10:44am Plotted on: Sep 15, 2014 - 10:47am by nld_meyers

NO.	BY	DATE	DESCRIPTION

REVISIONS

URS URS Corporation Southern
 7650 W. Courtney Campbell Cswy.
 Tampa, Florida 33607 (813) 285-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

LANDSCAPE PLAN (1)

SHIRLEY PEARSALL, L.A.
 Registered Professional
 607
 FL Reg. No. Sign Date

L101

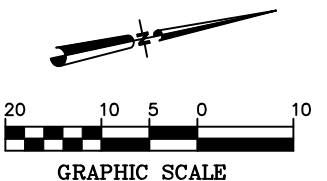
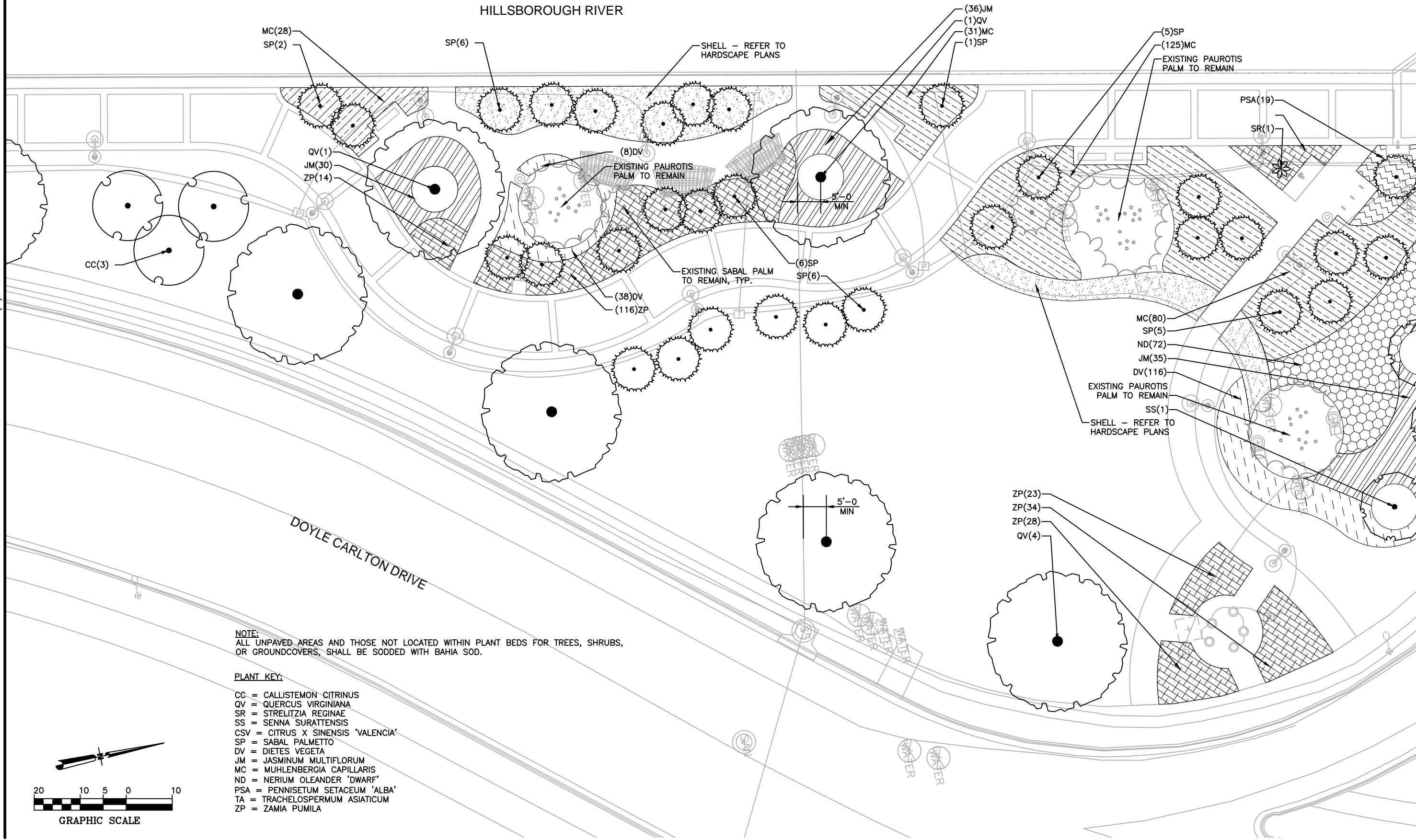
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MATCHLINE SEE LANDSCAPE PLAN (1)

MATCHLINE SEE LANDSCAPE PLAN (3)

HILLSBOROUGH RIVER



NO.	BY	DATE	DESCRIPTION

URS URS Corporation Southern
 7650 W. Courtney Campbell Cswy.
 Tampa, Florida 33607 (813) 286-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
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 CONTRACT ADMINISTRATION

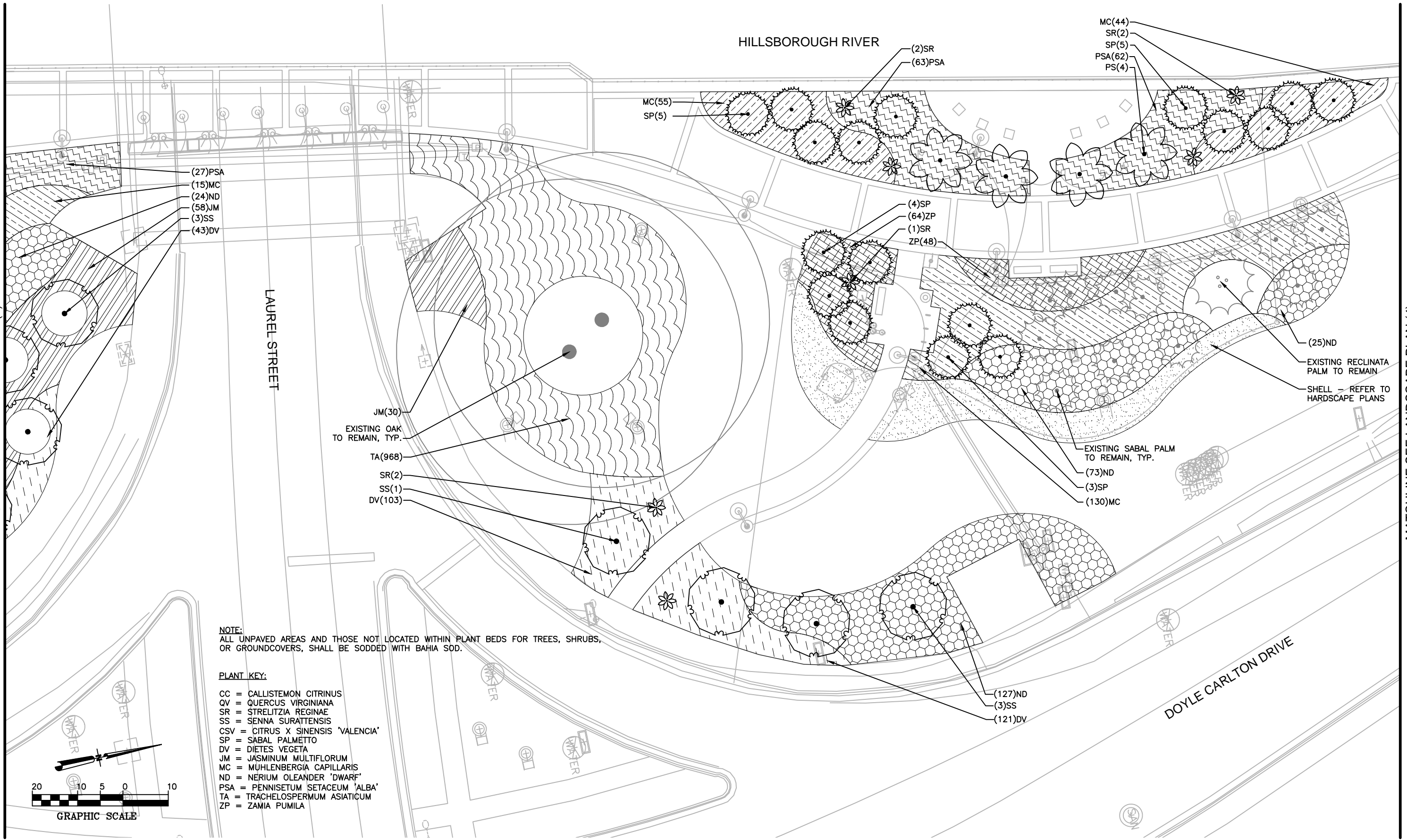
LANDSCAPE PLAN (2)

SHIRLEY PEARSALL, L.A.
 Registered Professional
 607
 FL Reg. No. Sign Date print date

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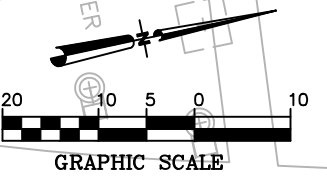
MATCHLINE SEE LANDSCAPE PLAN (2)

MATCHLINE SEE LANDSCAPE PLAN (4)



NOTE:
ALL UNPAVED AREAS AND THOSE NOT LOCATED WITHIN PLANT BEDS FOR TREES, SHRUBS,
OR GROUNDCOVERS, SHALL BE SODDED WITH BAHIA SOD.

- PLANT KEY:
- CC = CALLISTEMON CITRINUS
 - QV = QUERCUS VIRGINIANA
 - SR = STRELITZIA REGINAE
 - SS = SENNA SURATTENSIS
 - CSV = CITRUS X SINENSIS 'VALENCIA'
 - SP = SABAL PALMETTO
 - DV = DIETES VEGETA
 - JM = JASMINUM MULTIFLORUM
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 - ND = NERIUM OLEANDER 'DWARF'
 - PSA = PENNISETUM SETACEUM 'ALBA'
 - TA = TRACHELOSPERMUM ASIATICUM
 - ZP = ZAMIA PUMILA



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URS URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 285-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

LANDSCAPE PLAN (3)

SHIRLEY PEARSALL, L.A.
Registered Professional
607
FL Reg. No. Sign Date print date

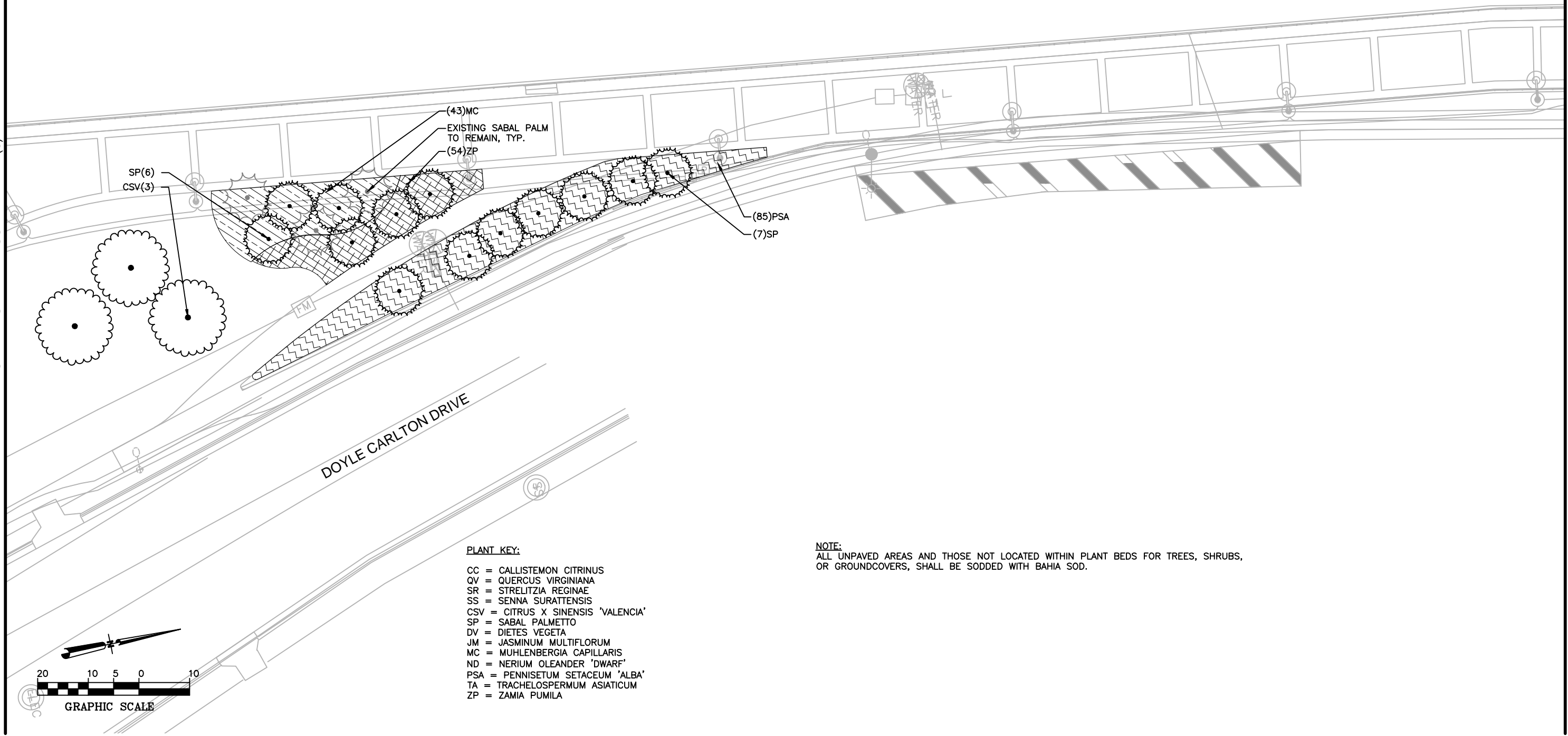
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Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscape\Landscaping.dwg Last Modified: Sep 15, 2014 - 10:44am Plotted on: Sep 15, 2014 - 10:46am by nicl_meyers

MATCHLINE SEE LANDSCAPE PLAN (3)

MATCHLINE SEE LANDSCAPE PLAN (5)

HILLSBOROUGH RIVER

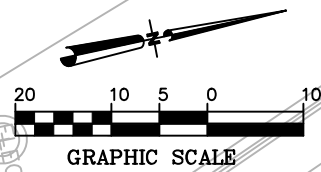


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- ZP = ZAMIA PUMILA

NOTE:

ALL UNPAVED AREAS AND THOSE NOT LOCATED WITHIN PLANT BEDS FOR TREES, SHRUBS, OR GROUNDCOVERS, SHALL BE SODDED WITH BAHIA SOD.



NO.	BY	DATE	DESCRIPTION

URS URS Corporation Southern
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 Tampa, Florida 33607 (813) 286-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT

FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

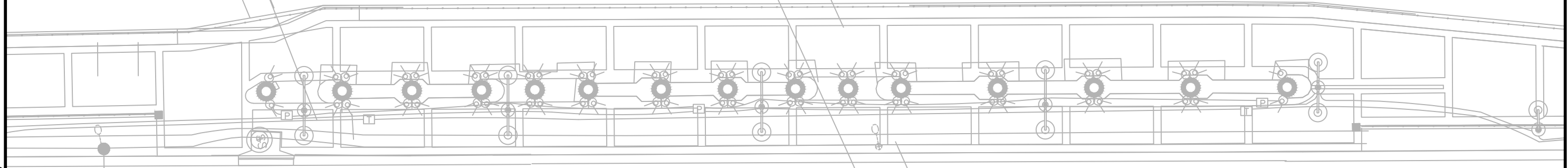
LANDSCAPE PLAN (4)

SHIRLEY PEARSALL, L.A.
 Registered Professional
 607
 FL Reg. No. Sign Date

L104

NO LANDSCAPING THIS SHEET

HILLSBOROUGH RIVER



DOYLE CARLTON DRIVE

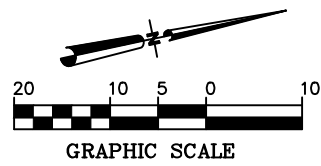
I-275 NORTHBOUND OVERHEAD BRIDGE

I-275 SOUTHBOUND OVERHEAD BRIDGE

MATCHLINE SEE LANDSCAPE PLAN (4)

MATCHLINE SEE LANDSCAPE PLAN (6)

Drawing Name: S:\Projects\Tampa Riverwalk\Doyle Carlton\Production\Landscapes\Landscapes.dwg Last Modified: Aug 29, 2014 - 12:29pm Plotted on: Sep 03, 2014 - 3:07pm by nld_myers



NOTE:
ALL UNPAVED AREAS AND THOSE NOT LOCATED WITHIN PLANT BEDS FOR TREES, SHRUBS,
OR GROUNDCOVERS, SHALL BE SODDED WITH BAHIA SOD.

NO.	BY	DATE	DESCRIPTION

URS URS Corporation Southern
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Tampa, Florida 33607 (813) 285-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

LANDSCAPE PLAN (5)

SHIRLEY PEARSALL, L.A.
Registered Professional
607
FL Reg. No. Sign Date

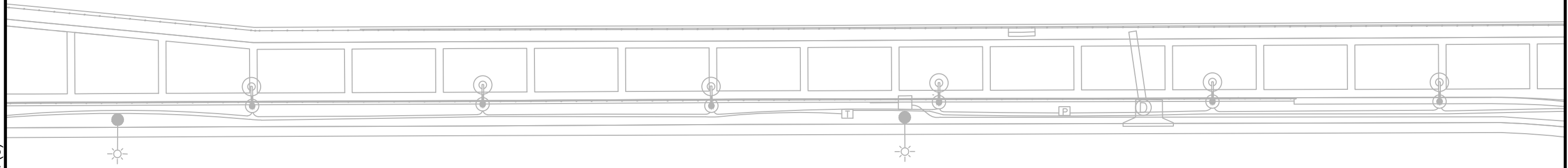
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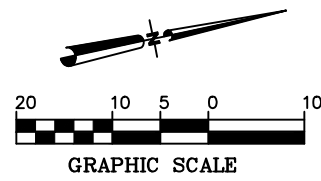
NO LANDSCAPING THIS SHEET

HILLSBOROUGH RIVER

DOYLE CARLTON DRIVE



NOTE:
ALL UNPAVED AREAS AND THOSE NOT LOCATED WITHIN PLANT BEDS FOR TREES, SHRUBS,
OR GROUNDCOVERS, SHALL BE SODDED WITH BAHIA SOD.



MATCHLINE SEE LANDSCAPE PLAN (5)

MATCHLINE SEE LANDSCAPE PLAN (7)

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscapes\Landscapes.dwg Last Modified: Aug 29, 2014 - 12:29pm Plotted on: Sep 03, 2014 - 3:07pm by nck_myers

NO.	BY	DATE	DESCRIPTION

URS URS Corporation Southern
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 Tampa, Florida 33607 (813) 285-1711
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TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

LANDSCAPE PLAN (6)

SHIRLEY PEARSALL, L.A.
 Registered Professional
 607
 FL Reg. No. Sign Date

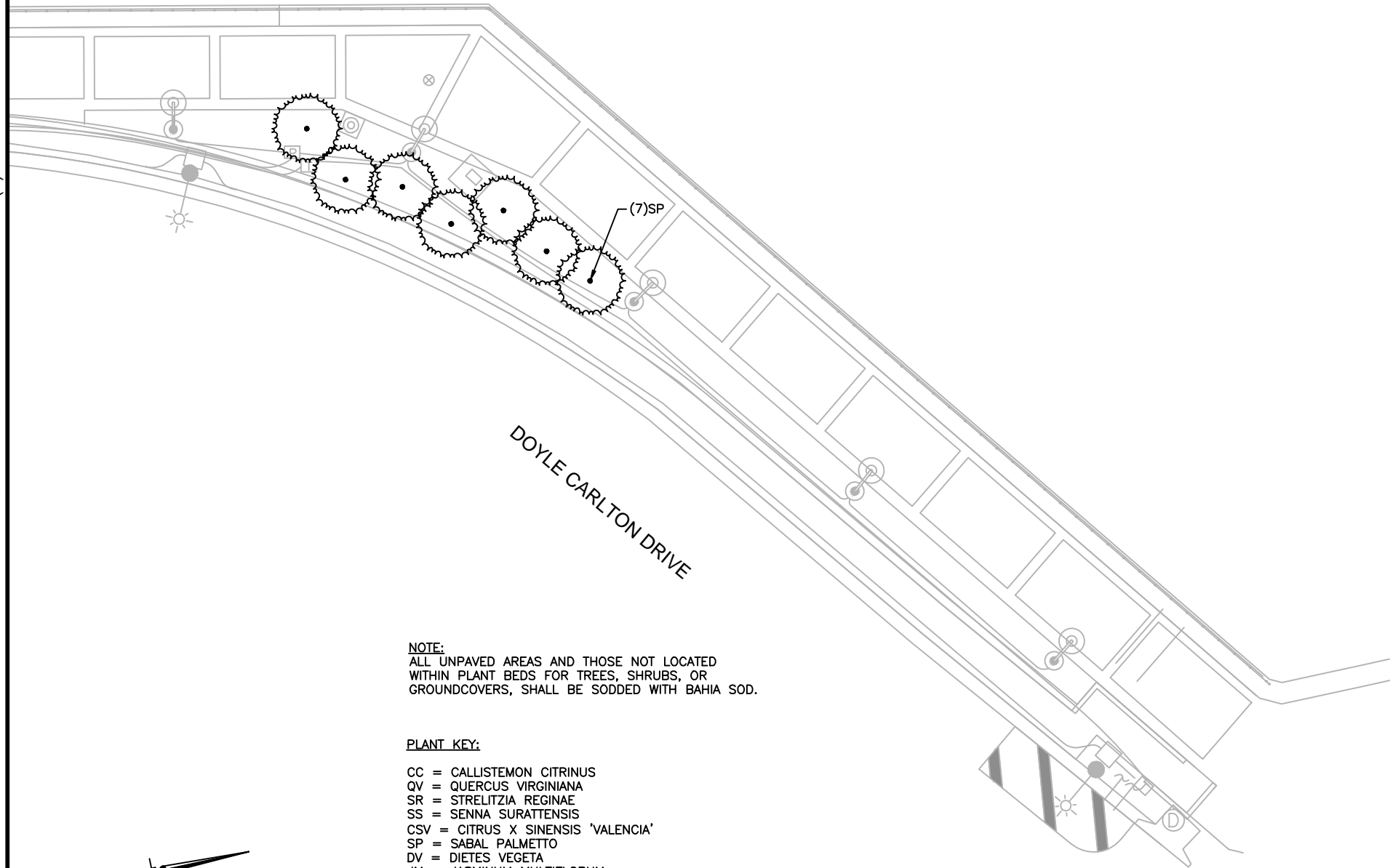
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Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscape\landscapes\landscapes.dwg Last Modified: Sep 15, 2014 - 10:44am Plotted on: Sep 15, 2014 - 10:46am by nld_meyers

MATCHLINE SEE LANDSCAPE PLAN (6)

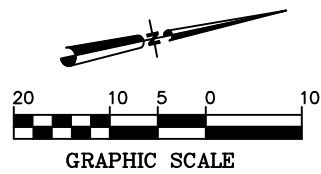
HILLSBOROUGH RIVER



NOTE:
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PLANT KEY:

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DRWN: NM				
DSGN: SP				
CHKD: PK				
APVD: DC				
DATE: 07/11/14				
NO.	BY	DATE	DESCRIPTION	
REVISIONS				



TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

LANDSCAPE PLAN (7)

SHIRLEY PEARSALL, L.A.
Registered Professional
607
FL Reg. No. Sign Date

L107

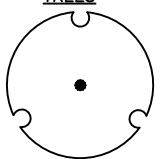
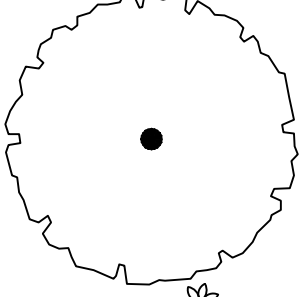
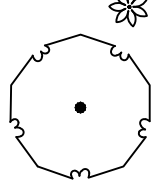
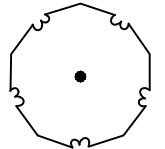
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PLANT_SCHEDULE

ABBREVIATIONS:

CAL = CALIPER
 CT = CLEAR TRUNK
 FG = FIELD GROWN
 FTG = FULL TO GROUND
 GAL = GALLON
 HT = HEIGHT
 ML = MULTI-TRUNK
 OA = OVER ALL
 SPR = SPREAD
 STD = STANDARD
 TYP = TYPICAL
 OC = ON CENTER
 FF = FLORIDA FANCY

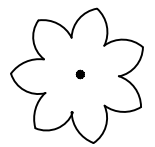
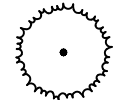
TREES

	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
	CC	3	CALLISTEMON CITRINUS	RED BOTTLEBRUSH	45 GAL	3" CAL, 11'-12' HT X 5'-6' SPR, STANDARD OR MAX. 3 TRUNKS, TREE FORM 5' CT, AS SHOWN
	QV	7	QUERCUS VIRGINIANA	LIVE OAK	100 GAL	4" CAL, 14'-16' HT X 6'-8' SPR
	SR	8	STRELITZIA REGINAE	BIRD OF PARADISE	15 GAL	24" X 24", FULL
	SS	8	SENNA SURATTENSIS	SCRAMBLED EGG TREE	45 GAL	3" CAL, 12'-14' HT X 5'-6' SPR, STANDARD, FF, 5' CT




FRUIT TREES

	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
	CSV	3	CITRUS X SINENSIS 'VALENCIA'	VALENCIA ORANGE	45 GAL	7'-8' HT X 4'-5' SPR

PALM TREES

	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
	PS	4	PHOENIX SYLVESTRIS	WILD DATE PALM	FG	12' CT, MATCH SPECIMENS WILD DATE PALMS SHALL BE INOCULATED FOR TEXAS PHOENIX PALM DECLINE (TPPD). CONTRACTOR SHALL PROVIDE RECORD OF INOCULATION DATES.
	SP	81	SABAL PALMETTO	SABAL PALM	FG	16'-20' CT, NO BOOTS, REGENERATED ROOTS & LEAVES SABAL PALMS TO BE PLANTED IN INFORMAL GROUPINGS AS SHOWN ON PLANS WITH VARYING HEIGHTS FROM 16' TO 20' CT SUCH THAT NO TWO (2) ADJACENT PALMS ARE OF EQUAL HEIGHT.

GROUND COVERS

	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	REMARKS
	DV	429	DIETES VEGETA	AFRICAN IRIS	1 GAL	24" o.c.	18" HT, FULL
	JM	189	JASMINUM MULTIFLORUM	DOWNEY JASMINE	3 GAL	36" o.c.	SHALL NOT BE PLANTED CLOSER THAN 5' FROM TRUNKS OF TREES.
	MC	551	MUHLENBERGIA CAPILLARIS	MUHLY GRASS	3 GAL	36" o.c.	18" HT, FULL
	ND	321	NERIUM OLEANDER 'DWARF'	DWARF OLEANDER	3 GAL	36" o.c.	
	PSA	256	PENNISETUM SETACEUM 'ALBA'	WHITE FOUNTAIN GRASS	3 GAL	36" o.c.	18" HT, FULL
	*TA	968	*TRACHELOSPERMUM ASIATICUM	ASIAN JASMINE	1 GAL	18" o.c.	12" RUNNERS, FULL
	ZP	401	ZAMIA PUMILA	COONTIE	3 GAL	30" o.c.	18" HT, FULL

*NOTE:
 INFILL ASIAN JASMINE UNDER EXISTING OAK CANOPY ON NORTH SIDE OF LAUREL STREET TO PROVIDE A UNIFORM COVERAGE AT MINIMUM 18" O.C. WITHIN BEDLINE. ACTUAL QUANTITIES MAY VARY.

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscape\Landscaping.dwg Last Modified: Sep 15, 2014 - 10:46am by nld_meyers

DRWN: NM				
DSGN: SP				
CHND: PK				
APVD: DC				
DATE: 07/11/14				
OB #: 12011325				



TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

PLANT SCHEDULE

SHIRLEY PEARSALL, LA
 Registered Professional
 607
 FL Reg No. Sign Date

L201

print date

LANDSCAPE NOTES

1. THE WORK CONSISTS OF THE COMPLETE PLANT MATERIAL INSTALLATION AS SHOWN ON THE DRAWINGS AND AS HEREIN SPECIFIED. THIS WORK SHALL INCLUDE BUT IS NOT LIMITED TO THE RELOCATION/TRANSPLANTING OF EXISTING PALMS, THE SUPPLYING OF ALL PLANT MATERIAL SPECIFIED, THE FURNISHING OF LABOR, EQUIPMENT, AND MATERIALS CALLED FOR, AND PERFORMING ALL OPERATIONS IN CONNECTION WITH THE LANDSCAPE INSTALLATION AS SHOWN ON THESE PLANS. FURTHER, THE WORK SHALL INCLUDE THE MAINTENANCE OF ALL NEW PLANTS, PLANTING AREAS, AND SOD UNTIL FINAL ACCEPTANCE BY THE OWNER AND THE FULFILLING OF GUARANTEE PROVISIONS SPECIFIED HEREIN.
2. THE CONTRACTOR SHALL BE FULLY ACQUAINTED WITH THE RELATED PAVING, LIGHTING, WATER SUPPLY, ELECTRICAL SUPPLY, AND OTHER UTILITIES TO PREVENT ANY MISUNDERSTANDING AND TO FACILITATE A TROUBLE FREE INSTALLATION. CALL THE SUNSHINE STATE ONE CALL OF FLORIDA 1-800-432-4770 PRIOR TO ANY CONSTRUCTION FOR UTILITY COORDINATION. IN ADDITION, NOTIFY THE UTILITY OWNER A MINIMUM OF 72 HOURS IN ADVANCE OF CONSTRUCTION TO IDENTIFY UTILITY LINE LOCATIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGES TO EXISTING FACILITIES THAT MAY RESULT FROM WORK PERFORMED BY THE CONTRACTOR. THE WORK PERFORMED UNDER THIS CONTRACT WILL INTERFACE WITH OTHER WORK BEING PERFORMED BY OTHER CONTRACTORS. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE ACTIVITIES WITH OTHER CONTRACTORS AND THEIR SUBCONTRACTORS.
4. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT OF RECORD AND OWNER'S REPRESENTATIVE, PRIOR TO INSTALLATION OF SUCH MATERIALS.
5. IN THE EVENT DISCREPANCIES ARE NOTED BETWEEN THE PLANT LIST AND THE ACTUAL NUMBER OF PLANTS SHOWN ON THE PLANS, THE PLANS SHALL CONTROL. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF DISCREPANCIES ARE FOUND.
6. PLANT MATERIALS WILL BE INSPECTED AT THE JOB SITE BY THE OWNER'S REPRESENTATIVE. AFTER INSPECTION, IF THE WORK DOES NOT COMPLY WITH PROJECT REQUIREMENTS, CONTRACTOR SHALL REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL WORK IS REINSPECTED AND FOUND TO BE ACCEPTABLE. REMOVE REJECTED PLANTS AND MATERIALS FROM THE SITE WITHIN 48 HOURS AND REPLACE WITH ACCEPTABLE MATERIALS. ALL TREES AND PALMS SHALL BE TAGGED AT THE NURSERY BY THE LANDSCAPE ARCHITECT PRIOR TO SHIPPING AND INSTALLATION. CONTRACTOR TO CONTACT THE LANDSCAPE ARCHITECT TWO (2) WEEKS IN ADVANCE TO SCHEDULE NURSERY TAGGING TRIPS WITH THE LANDSCAPE ARCHITECT AND SUPPLIER GROWERS.
7. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO DIRECT THE REMOVAL AND REPLACEMENT OF ANY ITEMS WHICH DO NOT REPRESENT SUCH AN INSTALLATION.
8. ALL PLANT MATERIALS SHALL BE GRADE FLORIDA NO. 1, OR BETTER AS OUTLINED UNDER GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, FLORIDA DIVISION OF PLANT INDUSTRY, AND SHALL CONFORM TO ANSI STANDARDS FOR NURSERY STOCK (ANSI Z60.1-LATEST EDITION).
9. ALL PLANTING BEDS SHALL BE MULCHED IN ACCORDANCE WITH THE PLANTING DETAILS. NO CYPRESS MULCH SHALL BE USED ON THIS PROJECT SITE. NEW MULCH SHALL BE MINI PINE BARK NUGGETS, INSTALLED TO A WETTED DEPTH OF 3" IN ALL AREAS AS INDICATED ON PLANS.
10. AFTER INITIAL PLANTINGS HAVE BEEN COMPLETED AND PRIOR TO MULCHING, APPLY "CHIPCO RONSTAR G" WITH A PROPERLY CALIBRATED GRANULAR APPLICATOR. APPLY AT A RATE AS DIRECTED BY MANUFACTURER'S RECOMMENDATIONS, FOR PLANTED AREAS SPECIFIED. DO NOT APPLY PRE-EMERGENT CHEMICAL DIRECTLY ON ANY PLANT MATERIALS. SUBMIT MSDS AND APPLICATION RATE INFORMATION TO THE LANDSCAPE ARCHITECT OF RECORD FOR APPROVAL PRIOR TO APPLICATION.
11. PLANTING SOIL:
 - A. PLANTING SOIL FOR ALL TREES, SHRUBS, AND GROUND COVERS SHALL CONSIST OF 50% TOPSOIL AND 50% PEAT.
 - B. PLANTING SOIL MIXTURE FOR ALL PALMS SHALL CONSIST OF THREE (3) PARTS SILICA SAND AND ONE (1) PART NATIVE SOIL BACKFILL.
 - C. PLANTING SOIL MIXTURE SAMPLES SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT OF RECORD FOR APPROVAL. NO PLANTING SHALL OCCUR UNTIL PLANTING SOILS ARE APPROVED. CONTRACTOR SHALL TAKE RESPONSIBILITY FOR PERFORMING PERCOLATION TESTS PRIOR TO BACKFILLING WITH APPROVED PLANTING SOIL. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF PERCOLATION DOES NOT SUPPORT HEALTHY GROWTH OF PLANTINGS.
12. ALL PLANT MATERIALS AND SOD SHALL BE WATERED AND MAINTAINED BY THE CONTRACTOR FROM TIME OF INITIAL PLANTING UNTIL 90 DAYS AFTER FINAL ACCEPTANCE BY THE OWNER. THE CONTRACTOR SHALL MAINTAIN IN ACCORDANCE WITH SECTION 3.4 OF WRITTEN SPECIFICATION 02900 WHICH CONTAINS DETAILED MAINTENANCE REQUIREMENTS. ALL PLANT MATERIALS SHALL BE ADEQUATELY WATERED AND MAINTAINED TO REMAIN IN FLORIDA NO. 1 GRADE CONDITION THROUGHOUT THE MAINTENANCE PERIOD.
13. ALL SOD (GRASS) DAMAGED BY THE CONTRACTOR SHALL BE REPLACED WITH ARGENTINE BAHIA SOD BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
14. SOD TYPE SHALL BE SAND GROWN, ARGENTINE BAHIA, UNLESS OTHERWISE SHOWN, AND SHALL BE WELL MATTED WITH ROOTS. THE SOD SHALL BE TAKEN UP IN RECTANGLES, PREFERABLY 12" X 24" AND SHALL BE LIVE, FRESH AND UNINJURED AT THE TIME OF PLANTING. SOD SHALL BE REASONABLY FREE OF WEEDS AND OTHER GRASS AND SHALL HAVE A SOIL MAT OF SUFFICIENT THICKNESS ADHERING FIRMLY TO THE ROOTS TO WITHSTAND ALL NECESSARY HANDLING. THE SOD SHALL BE SHADED AND KEPT MOIST UNTIL IT IS PLANTED. DUMPING FROM VEHICLES WILL NOT BE PERMITTED. DAMAGED SOD WILL BE REJECTED. REPLANTING SHALL BE DONE WITHIN 48 HOURS AFTER TIME OF HARVESTING OR SOD SHALL BE KEPT DAMP UNTIL PLANTED. SOD SHALL BE FULLY IRRIGATED.
15. SODDING SCHEDULE:
 - A. SOFT SPOTS AND INEQUITIES IN GRADE SHALL BE CORRECTED BEFORE BEGINNING SOD WORK.
 - B. GROUND SHALL BE SUFFICIENTLY MOIST PRIOR TO LAYING OF SOD. CONTRACTOR SHALL WATER AS NEEDED PRIOR TO LAYING SOD.
 - C. LAY SOD WITHOUT VOIDS, THEN TAMP OR ROLL SOD. SOD SHALL BE THOROUGHLY WATERED. THE SURFACE SHALL BE TRUE TO FINISHED GRADE LINES; EVEN AND FIRM AT ALL POINTS.
 - D. PLACE SOD WITH STAGGERED JOINTS CLOSELY BUTTED, TAMPED OR ROLLED TO AN EVEN SURFACE TO THE REQUIRED FINISHED GRADE. AVOID CONTINUOUS SEAM ALONG LINES OF WATER FLOW IN SWALES. PLACE SOD IN ROWS AT RIGHT ANGLES TO SLOPE.
 - E. FERTILIZE WITH A SLOW RELEASE FERTILIZER. SUBMIT FERTILIZER GUARANTEED ANALYSIS AND APPLICATION RATES TO THE LANDSCAPE ARCHITECT OF RECORD PRIOR TO APPLICATION.
 - F. SOD ALL AREAS WITHIN 5 FEET OF ANY PAVEMENT, STRUCTURE, PAS, INLET, OR SIMILAR HARDSCAPE
16. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONFLICT OR DISCREPANCY IN PLANS AND/OR ACTUAL FIELD CONDITIONS PRIOR TO PERFORMING ANY WORK IN THE AFFECTED AREA.
17. CONTRACTOR SHALL CLEAN UP AND REMOVE ALL SURPLUS AND DISCARDED MATERIALS AND RUBBISH FROM HIS CONSTRUCTION ON A DAILY BASIS.
18. ALL NEW PLANT MATERIAL SHALL BE WARRANTED BY THE CONTRACTOR FOR ONE (1) YEAR AND ALL SOD SHALL BE WARRANTED FOR 90 DAYS AFTER FINAL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.
19. FINAL INSPECTION WILL NOT TAKE PLACE UNTIL ALL MATERIALS ARE PLANTED/INSTALLED CORRECTLY. CONTRACTOR SHALL REQUEST A FINAL INSPECTION BY OWNER'S REPRESENTATIVE IN WRITING.

20. CONTRACTOR WILL BE NOTIFIED BY LETTER OF FINAL ACCEPTANCE WITHIN TEN DAYS AFTER FINAL INSPECTION OR TEN DAYS AFTER REINSPECTION, BY THE OWNER'S REPRESENTATIVE.
21. THE OWNER WILL ASSUME MAINTENANCE 90 DAYS AFTER FINAL ACCEPTANCE AT WHICH TIME CONTRACTOR SHALL REQUEST A FIELD MAINTENANCE INSPECTION. THE CONTRACTOR'S ONE (1) YEAR WARRANTY PERIOD BEGINS THEREAFTER.
22. SABAL PALMS (SABAL PALMETTO):
 - A. SPECIFIED AS HAVING "REGENERATED ROOTS AND LEAVES" AS SHOWN ON THE PLANT SCHEDULE (L201) SHALL BE MINIMUM FLORIDA NO. 1 GRADE UNLESS NOTED OTHERWISE. THE ROOT BALLS SHALL HAVE NEW, REGENERATED, ROUND-TIPPED ROOTS THAT HAVE EMERGED FROM THE ROOT INITIATION ZONE. ROOTS SHALL BE WHITISH-YELLOW IN COLOR, HAVE TAPERED ENDS AND BE PRESENT ON ALL SIDES OF THE ROOT BALL. TO QUALIFY AS "REGENERATED ROOTS" SABAL PALMS, AFTER FIELD HARVESTING AND DURING THE ROOT REGENERATION PERIOD, SABAL PALM ROOT BALLS SHALL HAVE BEEN PLACED IN CONTAINERS OR BE CONTAINED WITHIN "PLASTIC FABRIC OR FILM MATERIAL", OR APPROVED EQUAL. THEY SHALL HAVE A MINIMUM OF THREE FULLY EXPANDED NEW FRONDS THAT HAVE NOT BEEN PRUNED. FULLY EXPANDED NEW FRONDS SHALL MEET THE MINIMUM REQUIREMENTS TO BE CONSIDERED "EXCELLENT LEAVES", AS DEFINED BY THE GLOSSARY OF TERMS IN THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES GRADES AND STANDARDS FOR NURSERY PLANTS - PALMS AND CYCADS.
 - B. COLOR PHOTOGRAPHS OF "REGENERATED ROOTS" SABAL PALMS SHALL BE PROVIDED BY THE CONTRACTOR AND SUBMITTED TO THE CITY OF TAMPA AND LANDSCAPE ARCHITECT OF RECORD FOR APPROVAL PRIOR TO DELIVERY AND INSTALLATION ON THE PROJECT CONSTRUCTION SITE. PHOTOS SHALL CLEARLY DEPICT: THE CLEAR TRUNK HEIGHT; THE TRUNK DIAMETER MEASURED AT THE BASE; THE ROOT BALL MEASUREMENTS; REGENERATED ROOTS ON ALL SIDES OF THE ROOT BALL; THREE FULLY EXPANDED NEW FRONDS. ALL MEASUREMENTS AND REQUIREMENTS NOTED HEREIN SHALL BE CLEARLY IDENTIFIABLE IN THE COLOR PHOTOGRAPH SUBMITTALS. UPON DELIVERY TO THE PROJECT CONSTRUCTION SITE OR HOLDING AREA "REGENERATED ROOTS" SABAL PALMS WILL BE SUBJECT TO INSPECTION BY THE LANDSCAPE ARCHITECT OF RECORD AND THE CITY TO CONFIRM COMPLIANCE WITH THESE SPECIFICATIONS BEFORE INSTALLATION. SABAL PALMS THAT DO NOT MEET THE MINIMUM REQUIREMENTS NOTED HEREIN WILL NOT BE APPROVED. REJECTED MATERIALS SHALL BE REMOVED FROM THE PROJECT CONSTRUCTION SITE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
23. PRIOR TO SITE DEMOLITION AND CLEARING OR OTHER CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL COORDINATE WITH THE CITY OF TAMPA TO FACILITATE THE CITY'S RETRIEVAL AND RELOCATION OF SELECT TREES, PALMS, AND SHRUBS FROM THE PROJECT SITE PRIOR TO COMMENCEMENT OF DEMOLITION. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF FORTY-FIVE (45) DAYS ADVANCE NOTICE OF ANY SCHEDULED SITE DEMOLITION ACTIVITIES TO KARLA PRICE, CITY PARKS AND RECREATION DEPARTMENT; (813) 274-5134.
24. WILD DATE PALMS (PHOENIX SYLVESTRIS):
 - A. UNTIE FRONDS OF WILD DATE PALMS IMMEDIATELY AFTER INSTALLATION. REMOVE AND DISPOSE OF ANY TWINE, ROPE, TAGS, FLAGGING MATERIAL, ETC. PROPERLY.
 - B. PRIOR TO START OF WORK, CONTRACTOR TO FURNISH THE LANDSCAPE ARCHITECT WITH A NOTARIZED CERTIFICATION FORM THAT PROJECT DATE PALMS ARE TRUE TO VARIETY, (I.E. GENUS: PHOENIX SPECIES: SYLVESTRIS)
 - C. WILD DATE PALM TRUNKS TO BE DIAMOND CUT.
 - D. WILD DATE PALMS TO BE FERTILIZED WITH 8-2-12+4 MAGNESIUM SLOW RELEASE FERTILIZER WITH MICRONUTRIENTS UNDER ENTIRE DRIP LINE OF PALM.
 - E. WILD DATE PALMS TO BE SOURCED FROM NURSERIES WITH NO HISTORY OF TEXAS PHOENIX PALM DECLINE (TPPD)
 - F. WILD DATE PALM CANOPIES SHALL BE TREATED WITH INSECTICIDE AT THE NURSERY/SUPPLIER SOURCE PRIOR TO SHIPMENT TO THE PROJECT SITE. PROVIDE WRITTEN DOCUMENTATION TO THE ENGINEER OF THE CHEMICAL TREATMENT AND A COPY OF THE MANUFACTURER'S LABEL.
 - G. WILD DATE PALMS TO BE INOCULATED FOR TPPD. CONTRACTOR TO PROVIDE RECORD OF INOCULATION DATES.
25. PROPER SPACING OF PLANTS SHALL TAKE PRECEDENCE OVER PLANT QUANTITIES IN THE PLANT SCHEDULE OR ON PLANS. ANY EXTRA PLANTS THAT WILL NOT FIT ON SITE DUE TO UNFORESEEN CONDITIONS SHALL BECOME CITY OF TAMPA PROPERTY. THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE CITY THAT UNUSED PLANTS ARE AVAILABLE FOR THE CITY TO PICK UP.
26. FERTILIZER SHALL NOT BE APPLIED BETWEEN JUNE 1ST AND OCTOBER 1ST IN COMPLIANCE WITH CITY OF TAMPA FERTILIZER BAN.

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DSGN: SP				
CHND: PK				
APVD: DC				
DATE: 07/11/14				
JOB #: 12011325				

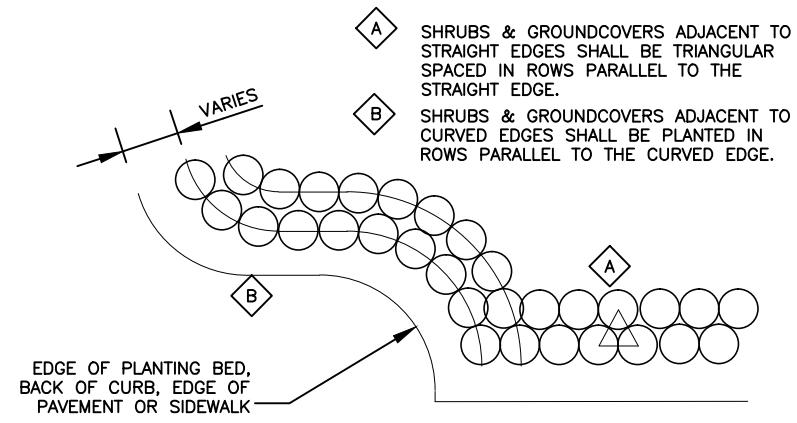
URS URS Corporation Southern
 7650 W. Courtney Campbell Cswy.
 Tampa, Florida 33607 (813) 286-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

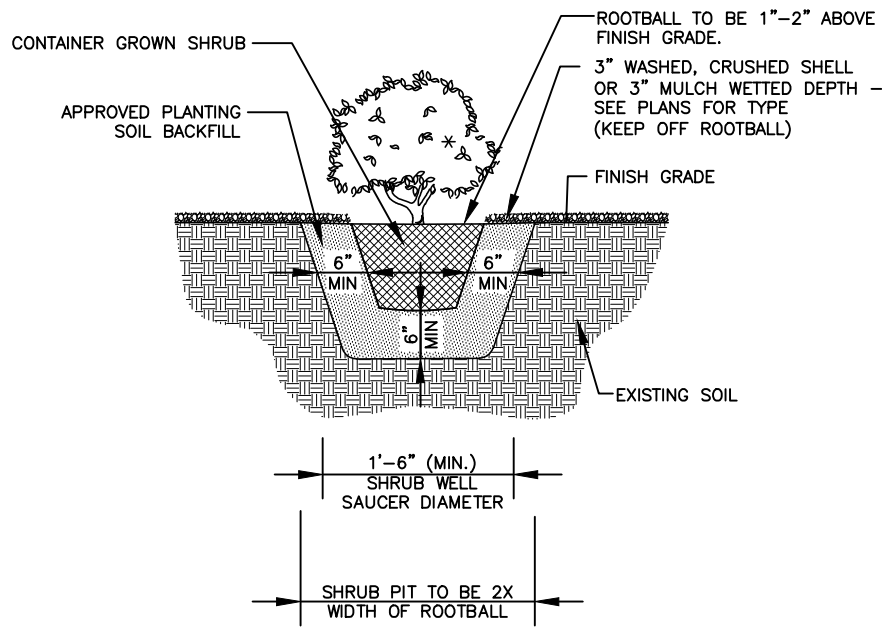
LANDSCAPE NOTES

L202

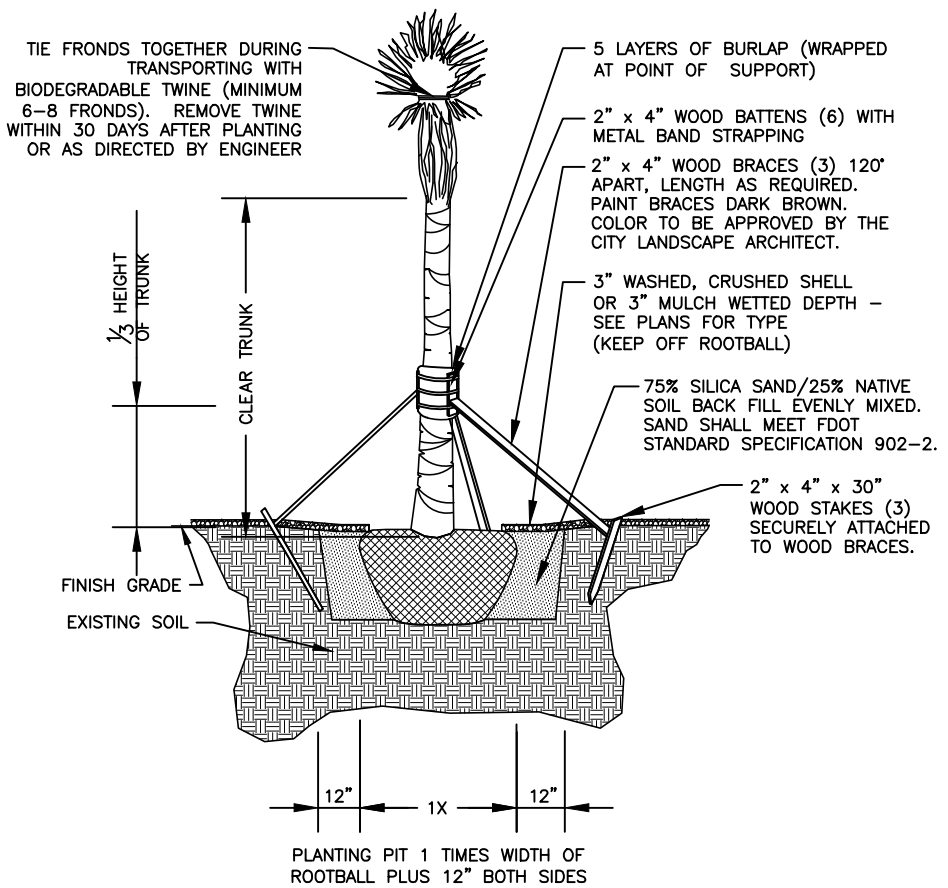
SHIRLEY PEARSALL, L.A.
 Registered Professional
 607
 FL Reg. No. Sign Date print date



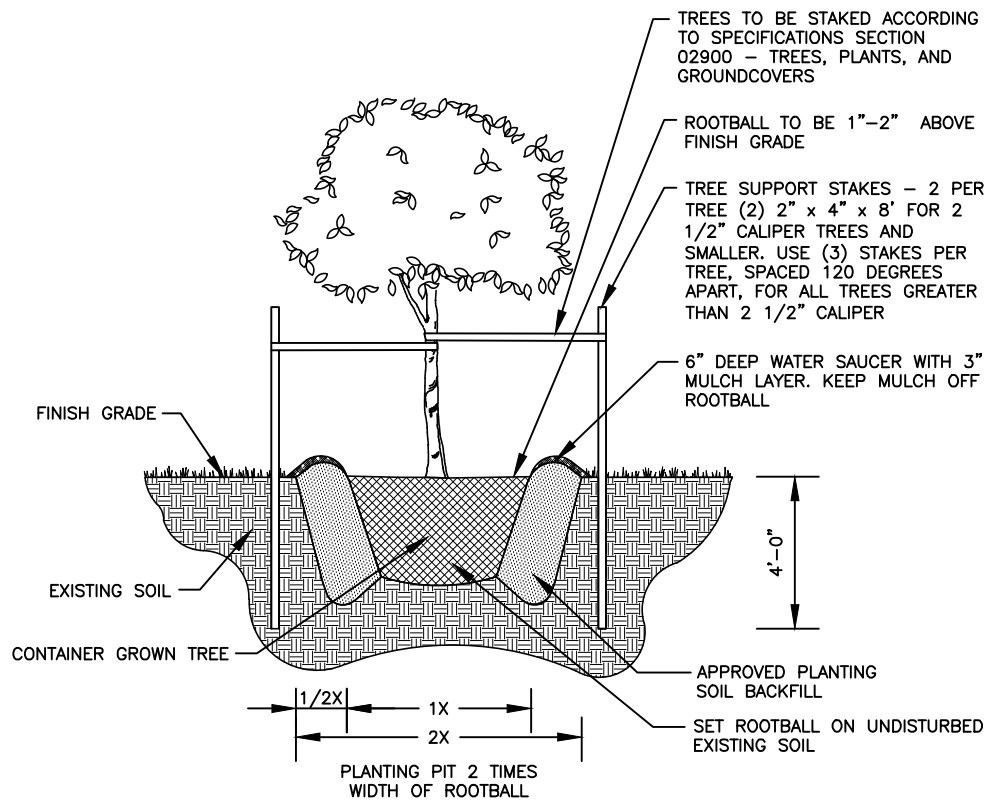
1 NTS SHRUB LAYOUT DETAIL



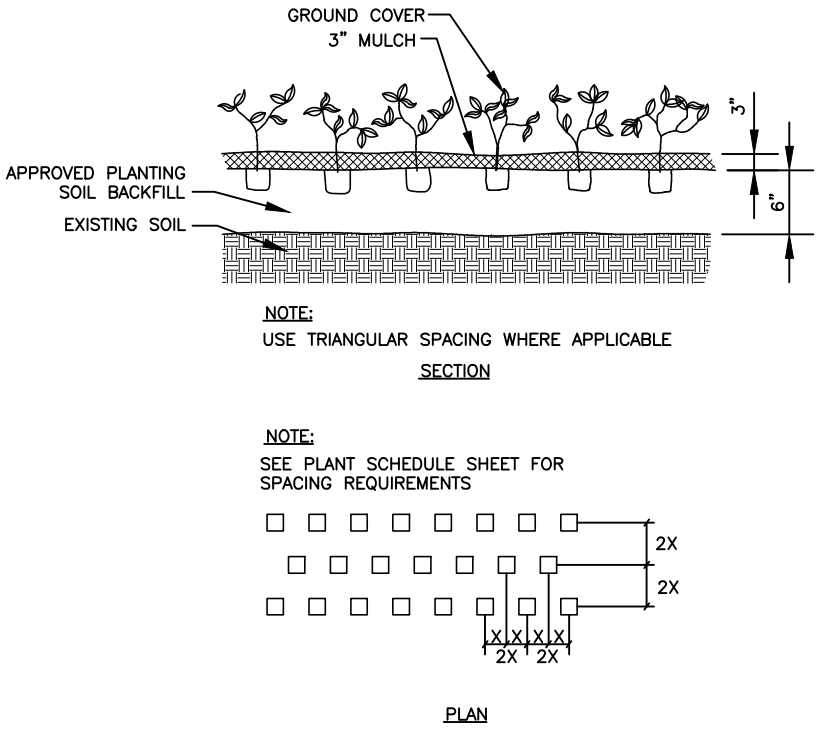
2 NTS SHRUB PLANTING DETAIL



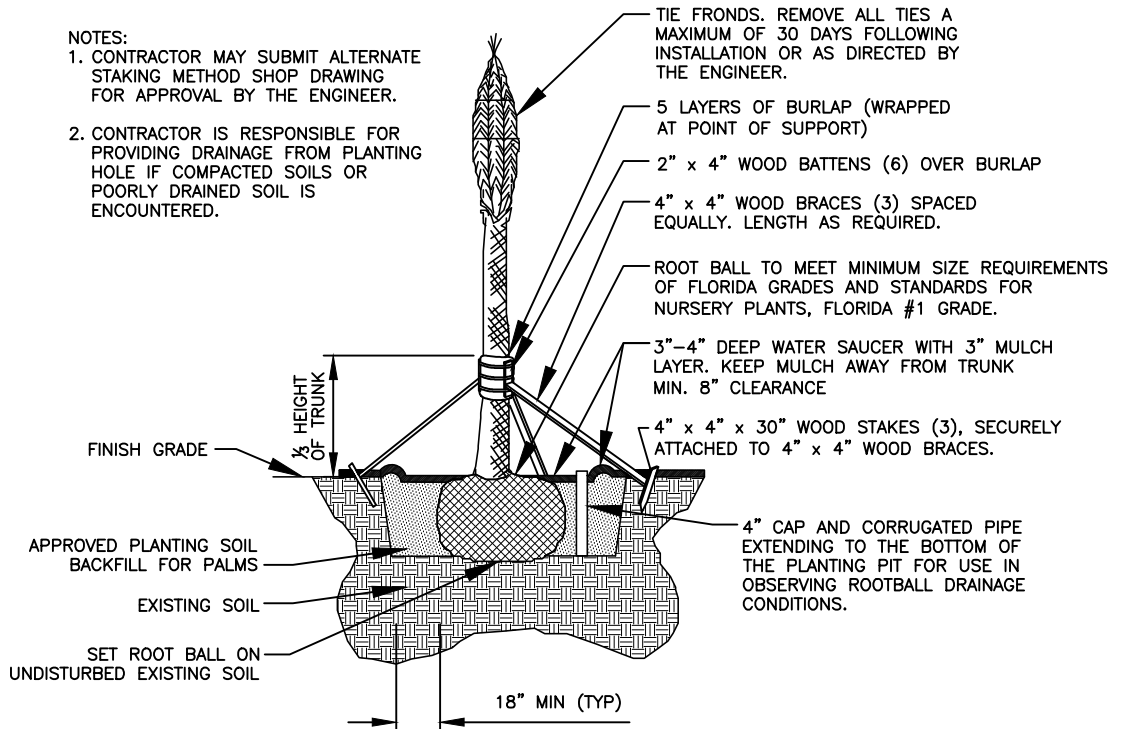
3 NTS SABAL PALM PLANTING DETAIL



4 NTS TREE PLANTING DETAIL



5 NTS GROUND COVER PLANTING DETAIL



6 NTS DATE PALM PLANTING DETAIL

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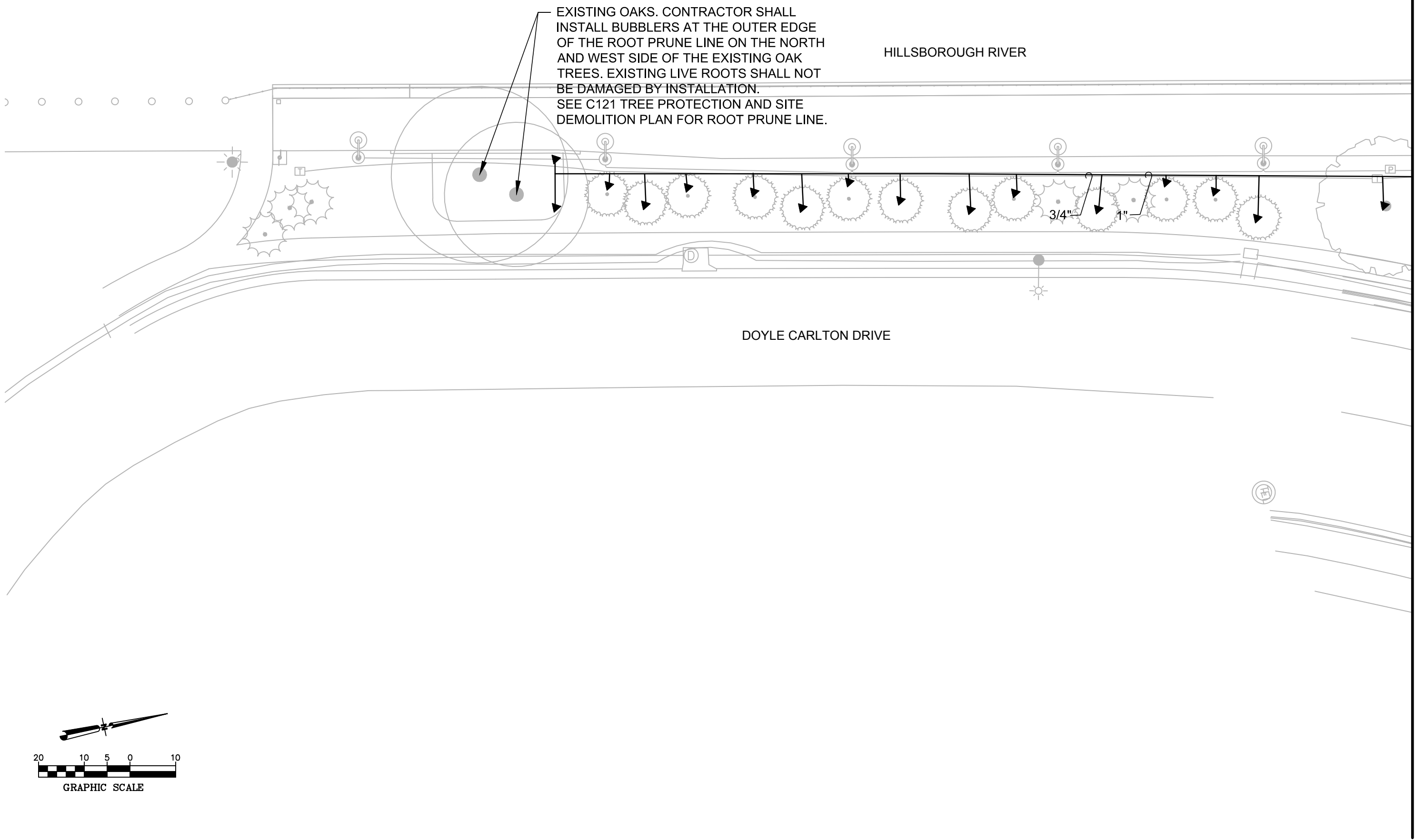
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
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 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

LANDSCAPE DETAILS

SHIRLEY PEARSALL, LA
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 FL Reg No. Sign Date print date

L301

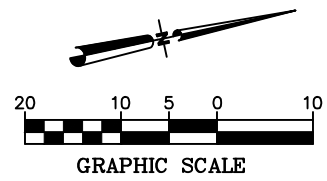
Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscape\Irrigation\Irrigation.dwg Last Modified: Aug 29, 2014 - 9:22am Plotted on: Sep 03, 2014 - 2:38pm by jcd_myers



EXISTING OAKS. CONTRACTOR SHALL INSTALL BUBBLERS AT THE OUTER EDGE OF THE ROOT PRUNE LINE ON THE NORTH AND WEST SIDE OF THE EXISTING OAK TREES. EXISTING LIVE ROOTS SHALL NOT BE DAMAGED BY INSTALLATION. SEE C121 TREE PROTECTION AND SITE DEMOLITION PLAN FOR ROOT PRUNE LINE.

HILLSBOROUGH RIVER

DOYLE CARLTON DRIVE



MATCHLINE SEE IRRIGATION PLAN (2)

DRWN: EC				
DSGN: EC				
CHKD: SP				
APVD: DC				
DATE: 07/11/14				
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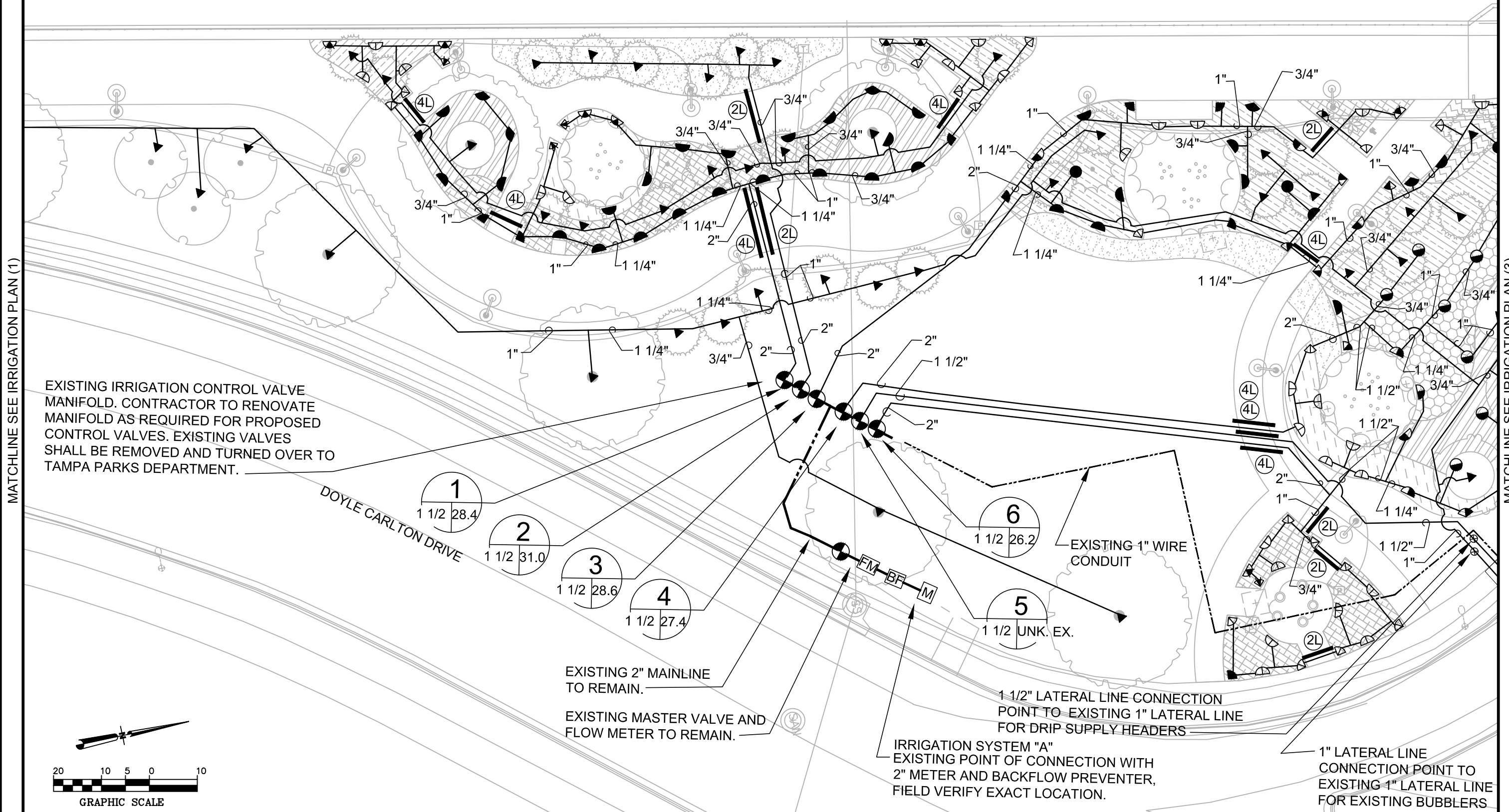
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

IRRIGATION PLAN (1)

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 607
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IR101
 print date

HILLSBOROUGH RIVER



MATCHLINE SEE IRRIGATION PLAN (1)

MATCHLINE SEE IRRIGATION PLAN (3)

EXISTING IRRIGATION CONTROL VALVE MANIFOLD. CONTRACTOR TO RENOVATE MANIFOLD AS REQUIRED FOR PROPOSED CONTROL VALVES. EXISTING VALVES SHALL BE REMOVED AND TURNED OVER TO TAMPA PARKS DEPARTMENT.

DOYLE CARLTON DRIVE

1
1 1/2 28.4

2
1 1/2 31.0

3
1 1/2 28.6

4
1 1/2 27.4

6
1 1/2 26.2

5
1 1/2 UNK. EX.

EXISTING 2" MAINLINE TO REMAIN.

EXISTING MASTER VALVE AND FLOW METER TO REMAIN.

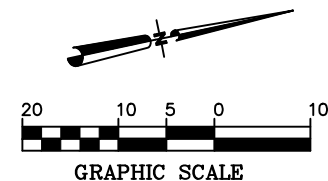
EXISTING 1" WIRE CONDUIT

1 1/2" LATERAL LINE CONNECTION POINT TO EXISTING 1" LATERAL LINE FOR DRIP SUPPLY HEADERS

IRRIGATION SYSTEM "A" EXISTING POINT OF CONNECTION WITH 2" METER AND BACKFLOW PREVENTER, FIELD VERIFY EXACT LOCATION.

1" LATERAL LINE CONNECTION POINT TO EXISTING 1" LATERAL LINE FOR EXISTING BUBBLERS

MATCHLINE SEE IRRIGATION PLAN (8)



TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

IRRIGATION PLAN (2)

IR102

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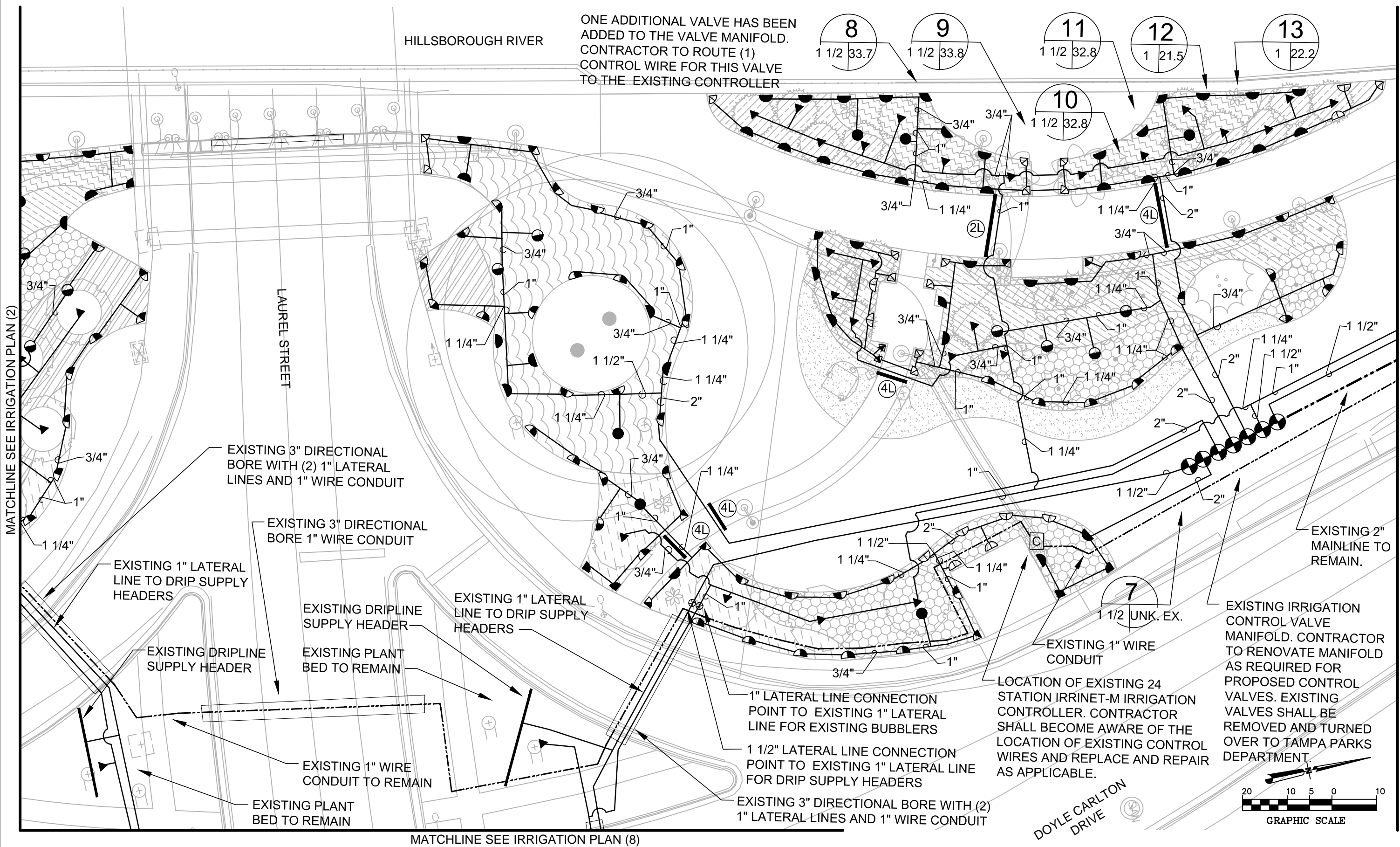
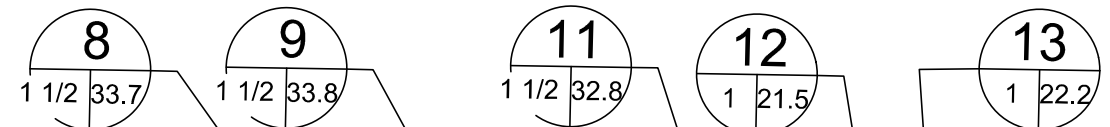
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Engineering Business No. 00000002

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Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscape\Irrigation\Irrigation.dwg Last Modified: Sep 03, 2014 - 2:20pm Plotted on: Nov 04, 2014 - 7:56am by jcd_myers

ONE ADDITIONAL VALVE HAS BEEN ADDED TO THE VALVE MANIFOLD. CONTRACTOR TO ROUTE (1) CONTROL WIRE FOR THIS VALVE TO THE EXISTING CONTROLLER



MATCHLINE SEE IRRIGATION PLAN (2)

MATCHLINE SEE IRRIGATION PLAN (4)

EXISTING 3\" DIRECTIONAL BORE WITH (2) 1\" LATERAL LINES AND 1\" WIRE CONDUIT

EXISTING 3\" DIRECTIONAL BORE 1\" WIRE CONDUIT

EXISTING 1\" LATERAL LINE TO DRIP SUPPLY HEADERS

EXISTING DRIPLINE SUPPLY HEADER

EXISTING DRIPLINE SUPPLY HEADER

EXISTING PLANT BED TO REMAIN

EXISTING 1\" LATERAL LINE TO DRIP SUPPLY HEADERS

EXISTING 1\" WIRE CONDUIT TO REMAIN

EXISTING PLANT BED TO REMAIN

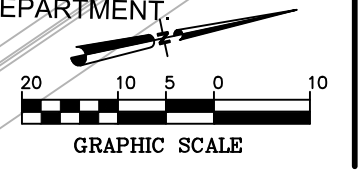
1\" LATERAL LINE CONNECTION POINT TO EXISTING 1\" LATERAL LINE FOR EXISTING BUBBLERS

1 1/2\" LATERAL LINE CONNECTION POINT TO EXISTING 1\" LATERAL LINE FOR DRIP SUPPLY HEADERS

EXISTING 3\" DIRECTIONAL BORE WITH (2) 1\" LATERAL LINES AND 1\" WIRE CONDUIT

LOCATION OF EXISTING 24 STATION IRRINET-M IRRIGATION CONTROLLER. CONTRACTOR SHALL BECOME AWARE OF THE LOCATION OF EXISTING CONTROL WIRES AND REPLACE AND REPAIR AS APPLICABLE.

EXISTING IRRIGATION CONTROL VALVE MANIFOLD. CONTRACTOR TO RENOVATE MANIFOLD AS REQUIRED FOR PROPOSED CONTROL VALVES. EXISTING VALVES SHALL BE REMOVED AND TURNED OVER TO TAMPA PARKS DEPARTMENT.



DOYLE CARLTON DRIVE

MATCHLINE SEE IRRIGATION PLAN (8)

DRWN: EC				
DSGN: EC				
CHKD: SP				
APVD: DC				
DATE: 07/11/14				
JOB #: 12011325				

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TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
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IRRIGATION PLAN (3)

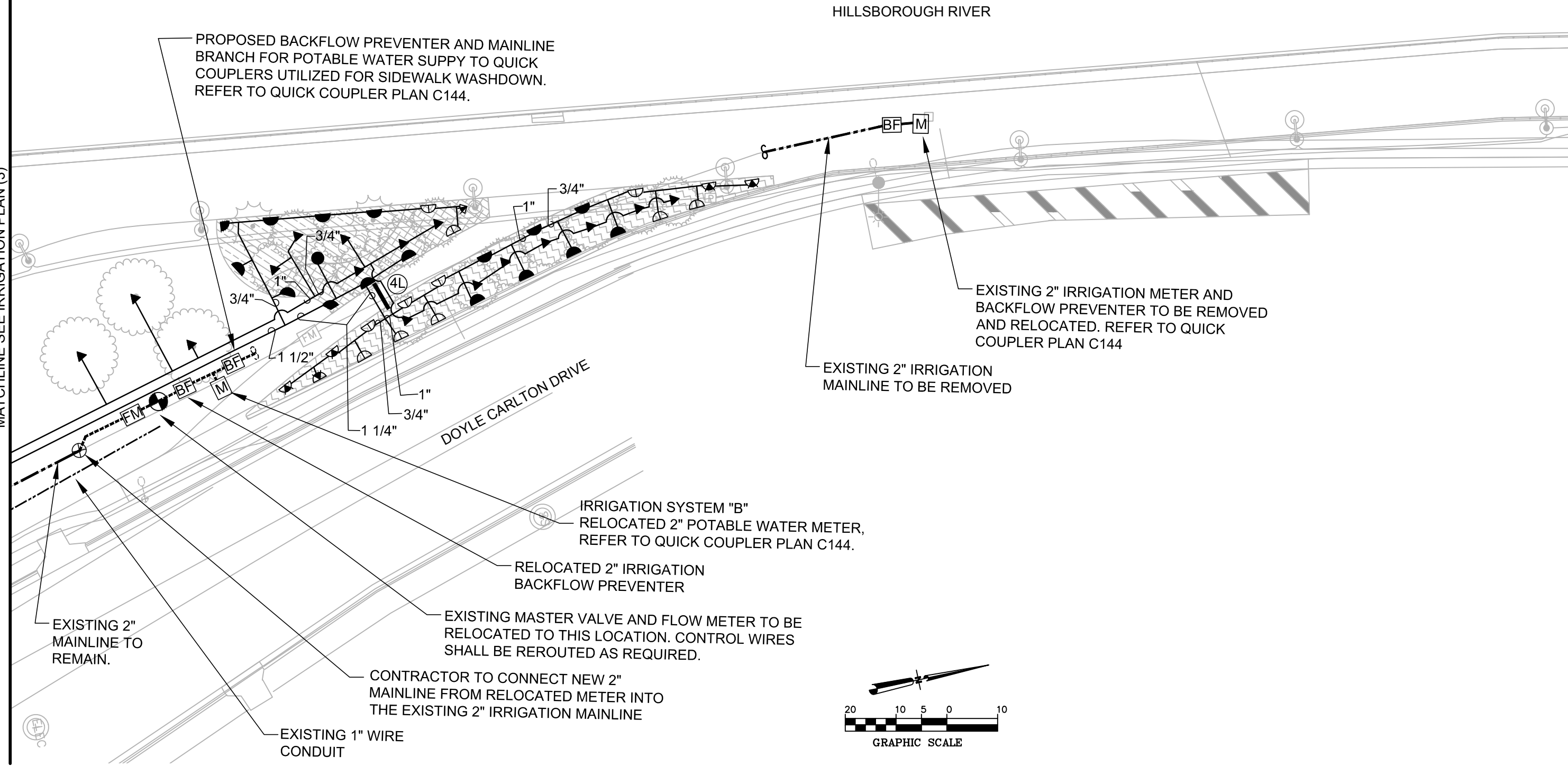
IR103

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MATCHLINE SEE IRRIGATION PLAN (3)

MATCHLINE SEE IRRIGATION PLAN (5)



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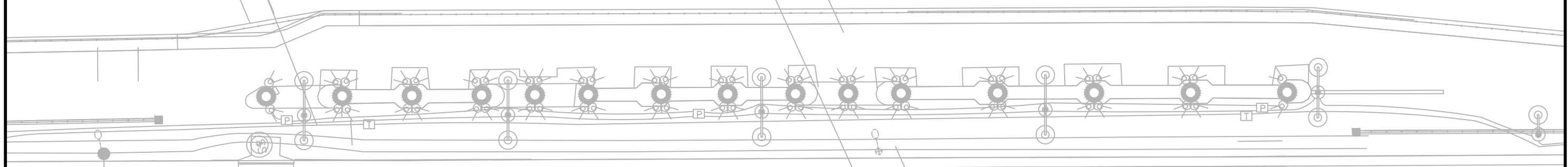
IRRIGATION PLAN (4)

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IR104
 print date

NO IRRIGATION THIS SHEET

HILLSBOROUGH RIVER



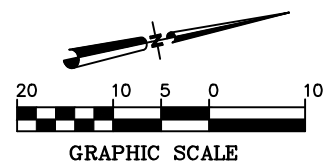
DOYLE CARLTON DRIVE

I-275 NORTHBOUND OVERHEAD BRIDGE

I-275 SOUTHBOUND OVERHEAD BRIDGE

MATCHLINE SEE IRRIGATION PLAN (4)

MATCHLINE SEE IRRIGATION PLAN (6)



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IRRIGATION PLAN (5)

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IR105

print date

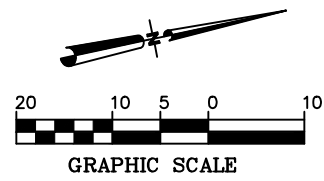
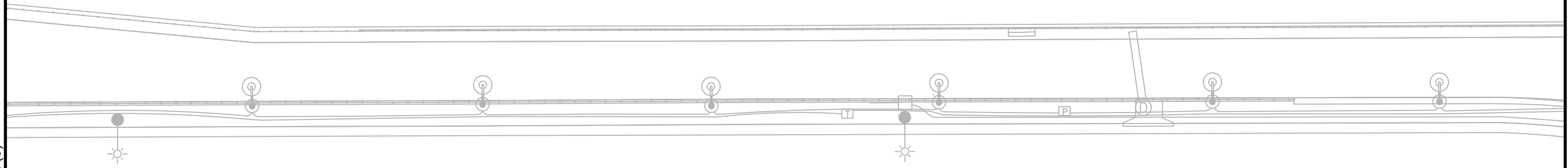
NO IRRIGATION THIS SHEET

HILLSBOROUGH RIVER

DOYLE CARLTON DRIVE

MATCHLINE SEE IRRIGATION PLAN (5)

MATCHLINE SEE IRRIGATION PLAN (7)



Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscape\Irrigation\Irrigation.dwg Last Modified: Aug 29, 2014 - 9:22am Plotted on: Sep 03, 2014 - 2:39pm by rld_myers

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IRRIGATION PLAN (6)

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IR106

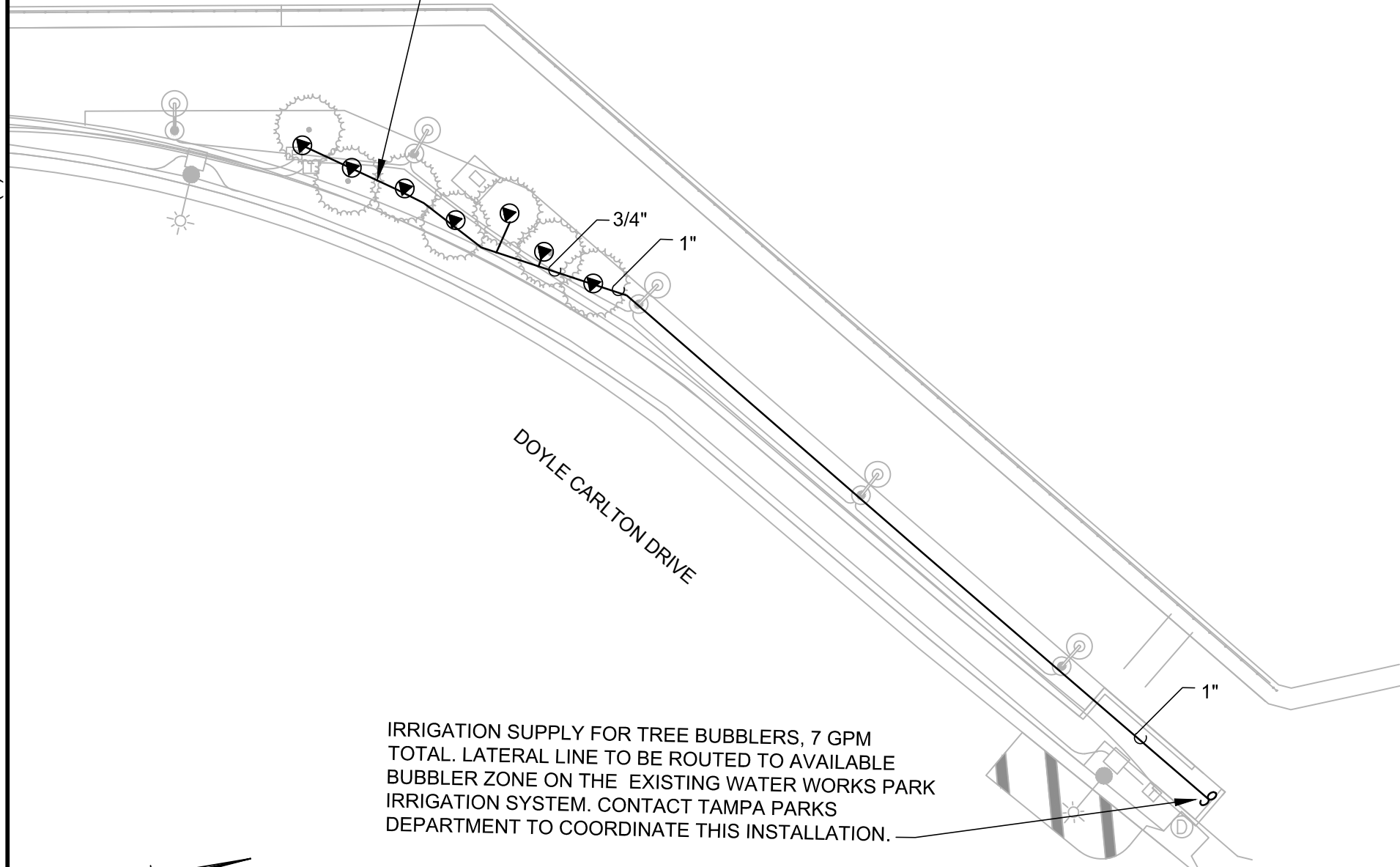
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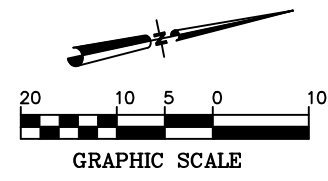
MATCHLINE SEE IRRIGATION PLAN (6)

HILLSBOROUGH RIVER

IRRIGATION SUPPLY FOR TREE BUBBLERS SHALL BE PROVIDED FROM THE EXISTING WATER WORKS PARK IRRIGATION SYSTEM



IRRIGATION SUPPLY FOR TREE BUBBLERS, 7 GPM TOTAL. LATERAL LINE TO BE ROUTED TO AVAILABLE BUBBLER ZONE ON THE EXISTING WATER WORKS PARK IRRIGATION SYSTEM. CONTACT TAMPA PARKS DEPARTMENT TO COORDINATE THIS INSTALLATION.



NO.	BY	DATE	DESCRIPTION

REVISIONS

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TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
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IRRIGATION PLAN (7)

SHIRLEY PEARSALL, L.A.
 Registered Professional
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 FL Reg. No. Sign Date

IR107

MATCHLINE SEE IRRIGATION PLAN (2)

MATCHLINE SEE IRRIGATION PLAN (3)

LAUREL STREET

DOYLE CARLTON DRIVE

EXISTING 3" DIRECTIONAL BORE

EXISTING 3" DIRECTIONAL BORE

EXISTING 1" LATERAL LINE FOR TREE BUBBLERS

EXISTING 1" LATERAL LINE FOR TREE BUBBLERS

EXISTING 1" LATERAL LINE TO DRIP SUPPLY HEADER

EXISTING 1" LATERAL LINE TO DRIP SUPPLY HEADER

EXISTING DRIPLINE SUPPLY HEADER

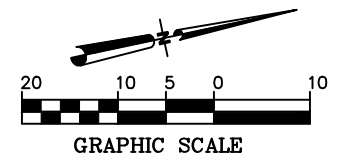
EXISTING DRIPLINE SUPPLY HEADER

REPLACE EXISTING 0.50 GPM BUBBLERS WITH 0.25 GPM BUBBLERS

REPLACE EXISTING 0.50 GPM BUBBLERS WITH 0.25 GPM BUBBLERS

EXISTING PLANT BED TO REMAIN

EXISTING PLANT BED TO REMAIN



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TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
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IRRIGATION PLAN (8)

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IR108
print date

IRRIGATION TABULATION OF QUANTITIES

DESCRIPTION	UNIT	TOTAL
IRRITROL 214B 1" CONTROL VALVE 24V SOLENOID WITH VALVE BOX	EA.	2
IRRITROL 216B 1 1/2" CONTROL VALVE 24V SOLENOID WITH VALVE BOX	EA.	11
VALVE CONTROL WIRE 14/1 GAUGE WITH WIRE CONNECTORS	LF.	70
VALVE COMMON WIRE 14/1 GAUGE WITH WIRE CONNECTORS	LF.	0
RAIN BIRD 1812-SAM SPRINKLER WITH RAIN BIRD NOZZLE AND 1/2" K-FLEX PIPE @ 24" LONG	EA.	315
RAIN BIRD 1401 PC BUBBLER W/ 1/2" K-FLEX PIPE @ 5' LONG	EA.	210
RAIN BIRD 1402 PC BUBBLER W/ 1/2" K-FLEX PIPE @ 5' LONG	EA.	14
2" PVC SCHEDULE 40 MAINLINE, SOLVENT WELD	LF.	40
2" PVC SCHEDULE 40 LATERAL LINE, SOLVENT WELD	LF.	665
1 1/2" PVC SCHEDULE 40 LATERAL LINE, SOLVENT WELD	LF.	410
1 1/4" PVC SCHEDULE 40 LATERAL LINE, SOLVENT WELD	LF.	560
1" PVC SCHEDULE 40 LATERAL LINE, SOLVENT WELD	LF.	1,155
3/4" PVC SCHEDULE 40 LATERAL LINE, SOLVENT WELD	LF.	3,315
4" PVC SCHEDULE 40 SLEEVE	LF.	145
2" PVC SCHEDULE 40 SLEEVE	LF.	90
RELOCATION OF BACKFLOW PREVENTER, FLOW METER AND MASTER VALVE	EA.	1

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DESIGN: EC																				
CHKD: SP																				
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DATE: 07/11/14																				
NO.	BY	DATE	DESCRIPTION																	
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TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
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CONTRACT ADMINISTRATION

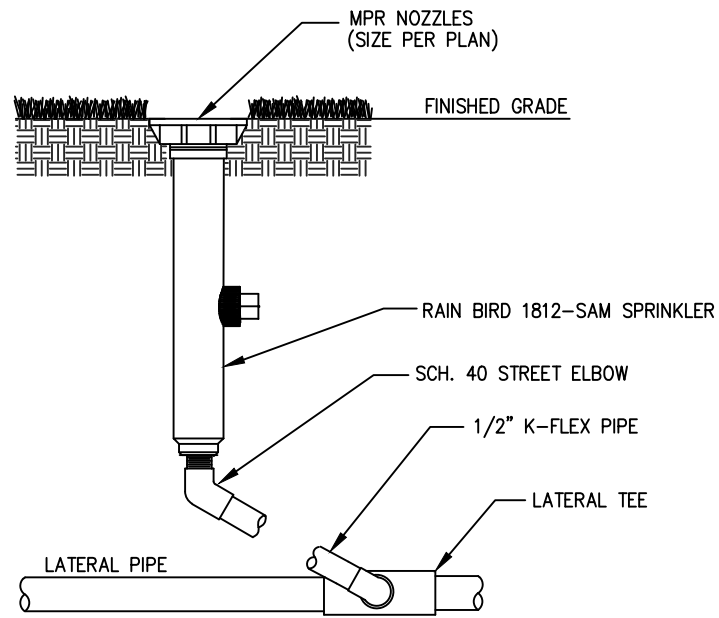
IRRIGATION MATERIALS LIST

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IR201

print date

NOTE: RAIN BIRD 1812-SAM SPRINKLERS TO BE INSTALLED UNLESS NOTED OTHERWISE.

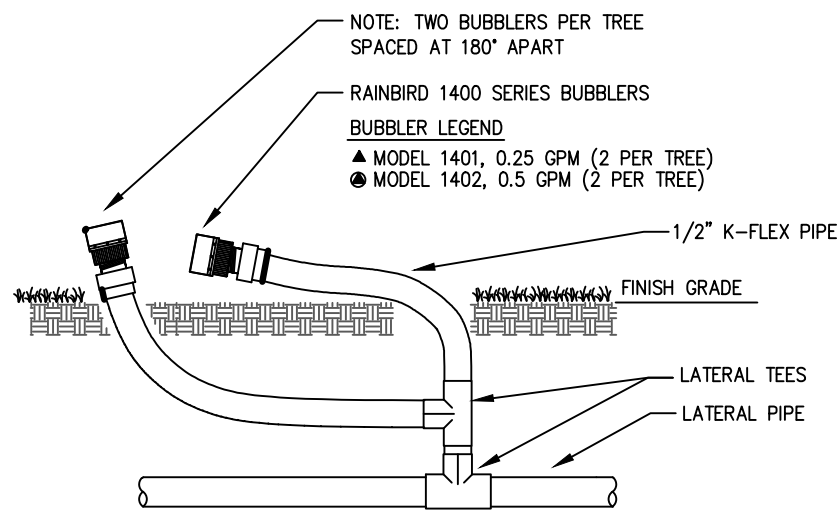


RAIN BIRD 1812-SAM SPRINKLER

NTS

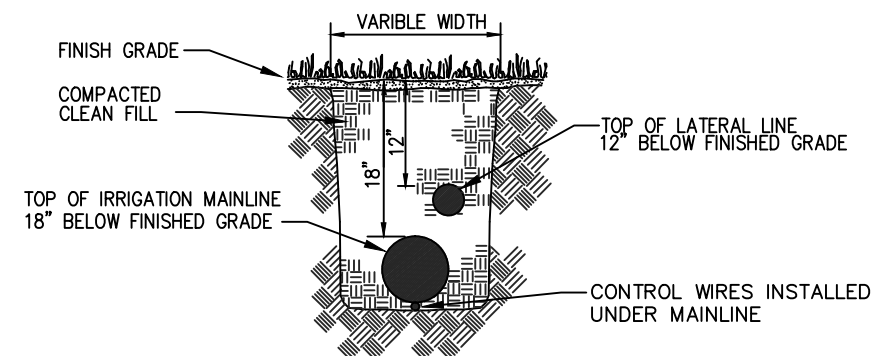
NOTES:

1. BUBBLERS SHALL BE PLACED ON THE UPHILL SIDE OF ANY SLOPES & ON THE OPPOSING SIDES OF EACH ROOTBALL WITHIN THE SAUCER
2. BUBBLERS TO BE INSTALLED ADJACENT TO ROOTBALL PERIMETER, DO NOT INSTALL BUBBLER ON TOP OF ROOTBALL OR NEXT TO TRUNK



RAIN BIRD 1400 SERIES BUBBLER APPLICATION

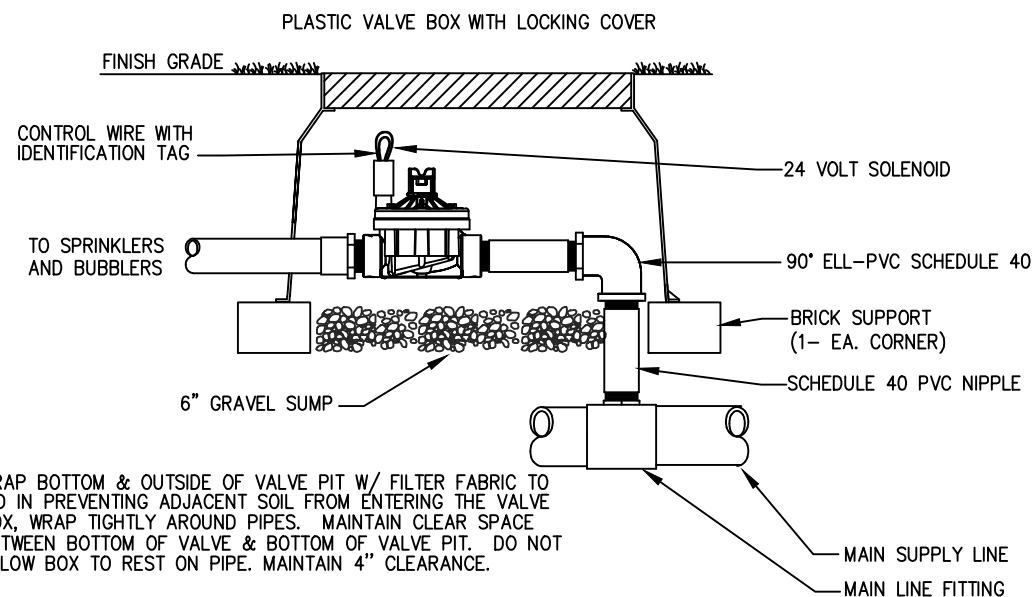
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1. DEPTH MEASUREMENTS ARE TO BE DONE FROM FINISH GRADE TO TOP OF PIPE.
2. PROVIDE A 6" MINIMUM VERTICAL SEPARATION BETWEEN MAINLINES AND LATERAL LINES.
3. ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN SOIL FREE OF DEBRIS & NOXIOUS WEEDS. TRENCHES SHALL BE COMPACTED TO A 90% STANDARD PROCTOR DENSITY, ASTM D698-78.

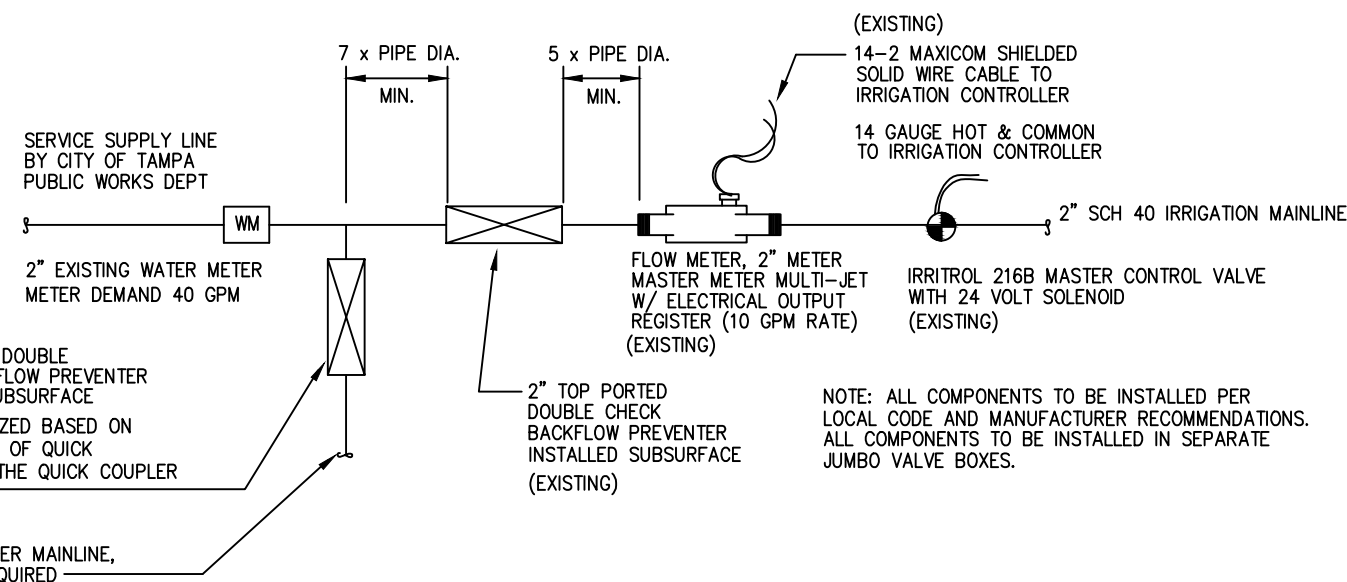
TRENCHING DETAIL

NTS



IRRITROL 200B SERIES CONTROL VALVE

NTS



METER ASSEMBLY SCHEMATIC

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\Landscaping\Irrigation\Irrigation.dwg User: jmc Modified: Aug 29, 2014 - 9:22am Plotted on: Sep 03, 2014 - 2:39pm by jmc_myers

DRWN: EC				
DSGN: EC				
CHKD: SP				
APVD: DC				
DATE: 07/11/14				
NO.	BY	DATE	DESCRIPTION	
REVISIONS				

URS URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 285-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

IRRIGATION DETAILS

SHIRLEY PEARSALL, L.A.
Registered Professional
607
FL Reg. No. Sign Date

IR301

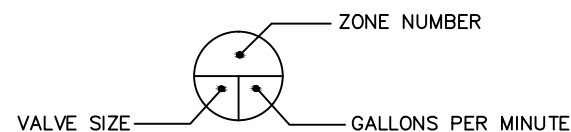
CONTROLLER SCHEDULE

IRRIGATION SYSTEM 'A'

ZONE	GPM	VALVE SIZE	TYPE
1	28.4	1 1/2"	SPRAY
2	31.0	1 1/2"	BUBBLER
3	28.6	1 1/2"	SPRAY
4	27.4	1 1/2"	SPRAY
5	UNKNOWN	1 1/2"	EX. DRIP
6	26.2	1 1/2"	SPRAY
23	SYSTEM "A" MASTER VALVE		
	INPUT FLOW SENSOR SYSTEM "A"		

IRRIGATION SYSTEM 'B'

7	UNKNOWN	1 1/2"	EX. DRIP
8	33.7	1 1/2"	SPRAY
9	33.8	1 1/2"	SPRAY
10	32.8	1 1/2"	SPRAY
11	32.8	1 1/2"	SPRAY
12	21.5	1"	BUBBLER
13	22.2	1"	SPRAY
24	SYSTEM "B" MASTER VALVE		
	INPUT FLOW SENSOR SYSTEM "B"		



IRRIGATION NOTES

- ALL IRRIGATION COMPONENTS AND INSTALLATION SHALL CONFORM TO THE CITY TAMPA IRRIGATION SPECIFICATIONS
- THE HEAD LAYOUT HAS BEEN DESIGNED TO PROVIDE 100% COVERAGE. ANY CHANGES MADE IN THE HEAD LAYOUT DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THESE STANDARDS.
- SET SPRAY HEADS 3" AND ROTORS 6" IN FROM BACK OF CURB OR 12" IF PAVEMENT HAS NO CURB.
- VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. MAINLINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE PROJECT MANAGER AND THE LANDSCAPE ARCHITECT. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THESE PLANS—CONTRACTOR SHALL VERIFY.
- ALL PRESSURE MAINLINES UNDER ASPHALT PAVEMENT SHALL BE WITHIN SLEEVES AS NOTED. IRRIGATION COMMUNICATION CABLE SHALL HAVE ITS OWN SEPARATE SLEEVE. LATERAL LINES SHALL BE CONTAINED WITHIN THEIR OWN SLEEVE WHERE SHOWN ON THE PLAN.
- ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR, WHETHER INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS. THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF EACH SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION ON THE "AS-BUILT" DRAWINGS. ALL SLEEVES ON PLAN FOR WALL PENETRATIONS AND UNDER SIDEWALKS SHALL BE SIZED TWO PIPE SIZES GREATER THAN PIPE IT CARRIES.
- MAINLINE AND VALVES ARE SHOWN IN SCHEMATIC FORM. LOCATE AS NOTED ON PLANS.
- LOCATE ALL VALVES A MINIMUM OF 24" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS NOTED OTHERWISE.
- ALL UNSIZED PIPE SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- ALL VALVES SHALL BE INSTALLED IN AN AMETEK PLASTIC VALVE BOX WITH LOCKING LID.
- IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR. WORK IN THE R.O.W. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE HIGHWAY JURISDICTION.
- VERIFY EXISTING MAINLINE POINT OF CONNECTIONS AND EXISTING IRRIGATION CONTROLLER AT PROJECT SITE WITH OWNER.
- DURING INSTALLATION AND UPON COMPLETION OF THE IRRIGATION SYSTEM, VALVES AND FLOW METER WIRING SHALL BE NUMBERED PER THE PLAN AND ROUTED INTO THE APPROPRIATE CONTROLLER CABINET. ALL CONNECTIONS AND PROGRAMMING TO BE DONE BY CITY OF TAMPA.
- ALL 24 VAC WIRING SHALL BE OF DIRECT BURIAL COPPER WIRE AS FOLLOWS:
CONTROL WIRES - #14-1 RED
COMMON WIRE - #14-1 WHITE
EXTRA WIRE - #14-1 BLACK
MASTER VALVE WIRE - #14-1 BLUE
EXISTING CONTROL WIRES TO BE UTILIZED WHERE POSSIBLE.
- INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.
- CONTACTOR TO BE KNOWLEGABLE OF BOTH EXISTING IRRIGATION SYSTEMS PRIOR TO CONSTRUCTION
- PRODUCTS SHALL BE AS SPECIFIED.

IRRIGATION LEGEND

RAIN BIRD MPR SPRAY NOZZLES UNLESS NOTED OTHERWISE

	15-Q	30' TRAJECTORY
	15-T	30' TRAJECTORY
	15-H	30' TRAJECTORY
	15-TQ	30' TRAJECTORY
	15-F	30' TRAJECTORY
	12-Q	30' TRAJECTORY
	12-T	30' TRAJECTORY
	12-H	30' TRAJECTORY
	12-TQ	30' TRAJECTORY
	12-F	30' TRAJECTORY
	10-Q	15' TRAJECTORY
	10-T	15' TRAJECTORY
	10-H	15' TRAJECTORY
	10-F	15' TRAJECTORY
	8-Q	10' TRAJECTORY
	8-T	10' TRAJECTORY
	8-H	10' TRAJECTORY
	4-Q VAN	0' TRAJECTORY
	4-H VAN	0' TRAJECTORY
	15EST	
	15SST	
	15CST	
	RAIN BIRD 1401 PC BUBBLER, 0.25 GPM (2 PER TREE)	
	RAIN BIRD 1402 PC BUBBLER, 0.50 GPM (2 PER TREE)	
	IRRITROL 200B SERIES CONTROL VALVE	
	PVC BALL VALVE INSTALLED IN 12" VALVE BOX	
	SCHEDULE 40 PVC MAINLINE, SOLVENT WELD	
	SCHEDULE 40 PVC LATERAL LINE, SOLVENT WELD	
	SCHEDULE 40 PVC SLEEVE	
	② 2" LATERAL SLEEVE	
	④ 4" LATERAL SLEEVE	
	NOTE: SOME SLEEVES HAVE BEEN SIZED TO ACCOMMODATE TWO LATERAL LINES.	

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NO.	BY	DATE	DESCRIPTION

URS URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 285-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT

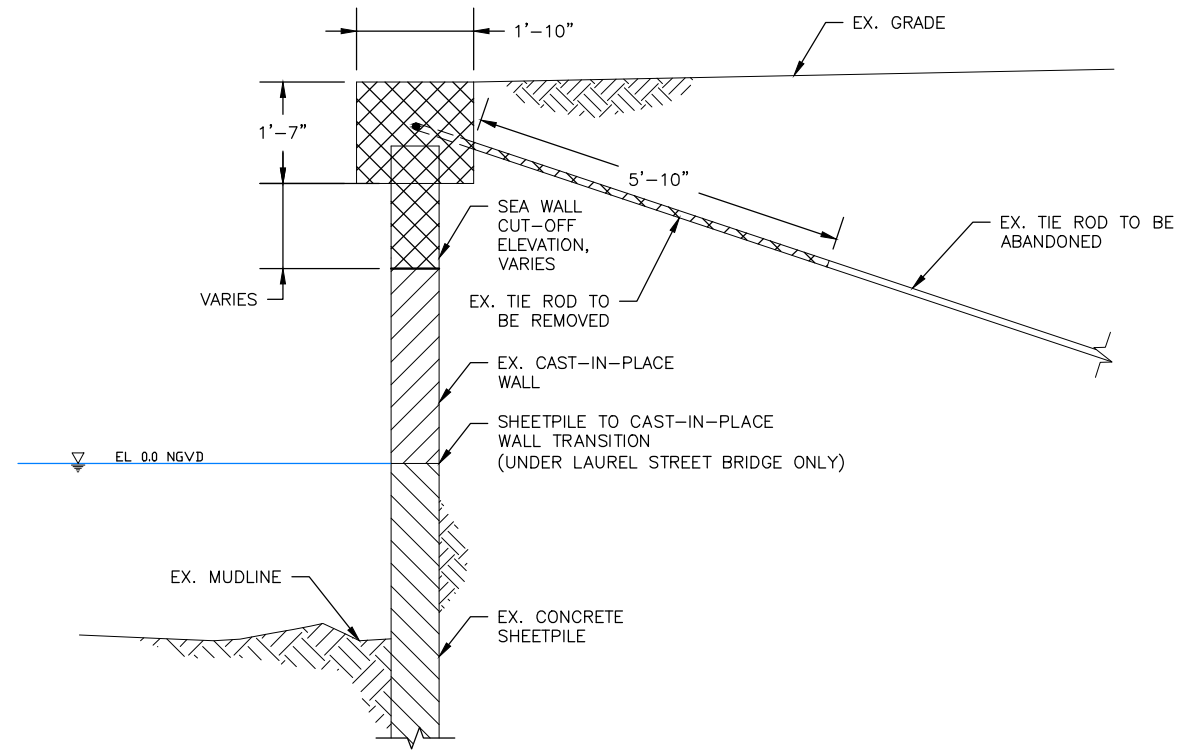
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

IRRIGATION DETAILS

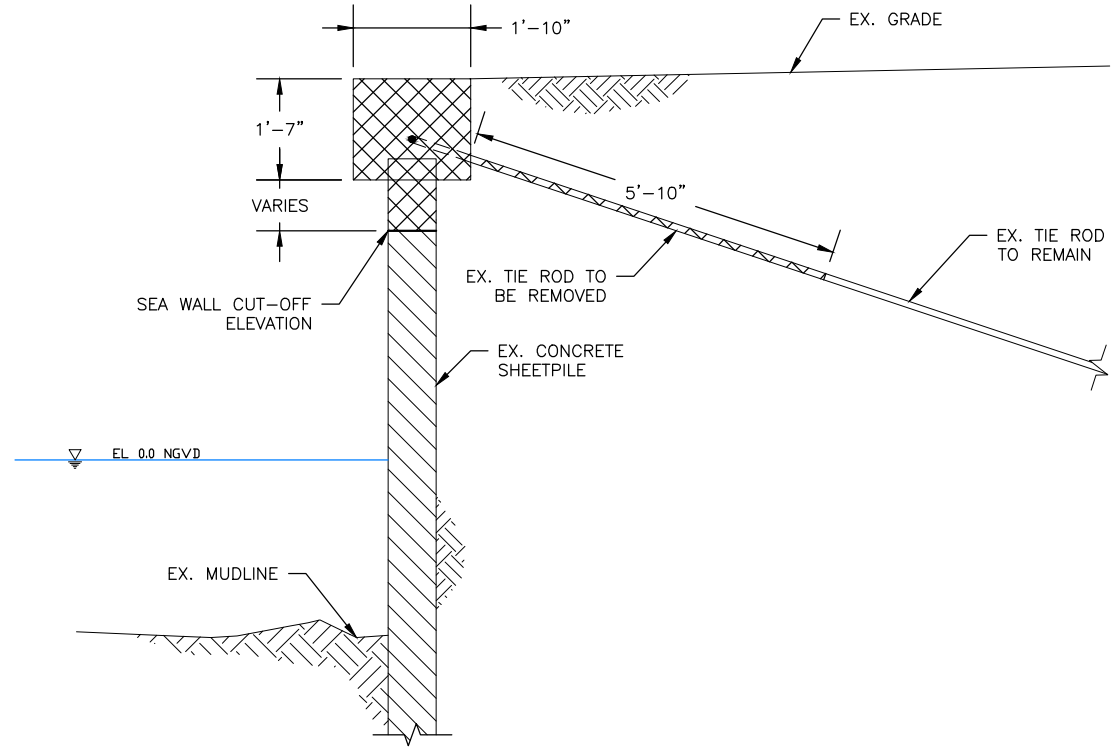
SHIRLEY PEARSALL, LA
Registered Professional
607
FL Reg. No. Sign Date

IR302

print date



SEA WALL DEMOLITION UNDER LAUREL STREET (1)
NTS SD101



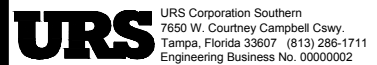
SEA WALL DEMOLITION UNDER I-275 (2)
NTS SD102

SEQUENCE OF DEMOLITION:

1. CONTRACTOR WILL EXCAVATE BEHIND AND UNLOAD SEA WALL BEFORE REMOVING ANY PORTION OF THE TIE ROD.
2. EXISTING TIE ROD WILL BE REMOVED TO DISTANCE SHOWN ON DETAIL SHEETS. REMAINING TIE ROD TO REMAIN OR BE ABANDONED IN PLACE.
3. REMOVE SEA WALL CAP AND CONCRETE SHEET PILE OR CAST-IN-PLACE WALL TO CUT OFF ELEVATION AS SHOWN.
4. EXISTING CONCRETE AT CONSTRUCTION JOINT BETWEEN EXISTING SEA WALL AND NEW CAP SHALL BE CLEANED AND ROUGHENED WITH A SURFACE AMPLITUDE OF 1/4".
5. SEE EXISTING SEA WALL PLANS DATED 1967 FOR LOCATION OF EXISTING TIE-BACKS, SEA WALL CAP REINFORCEMENT, AND DETAILS.

Drawing Name: S:\Projects\Tampa Riverwalk\Doyle Carlton\Production\DWG\SD001 TRBC NOTES_DET.DWG User: Modified: Apr 09, 2014 - 3:31pm Plotted on: Jul 08, 2014 - 2:05pm by evan_birk

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CHKD: CC				
APVD: DWS				
DATE: 07/11/14				
NO.	BY	DATE	DESCRIPTION	
REVISIONS				



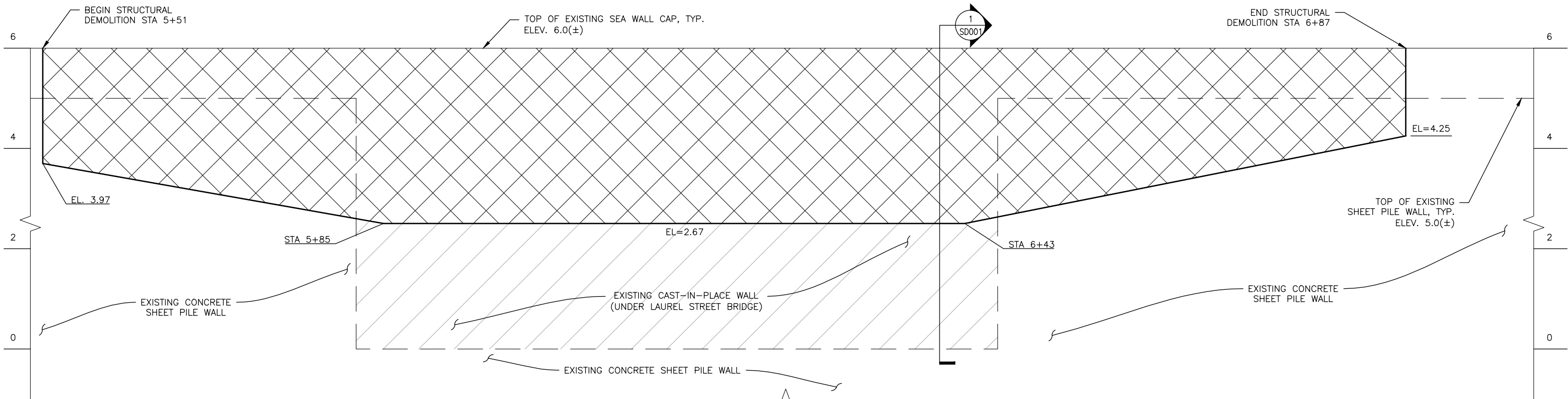
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

STRUCTURAL DEMOLITION NOTES & DETAILS

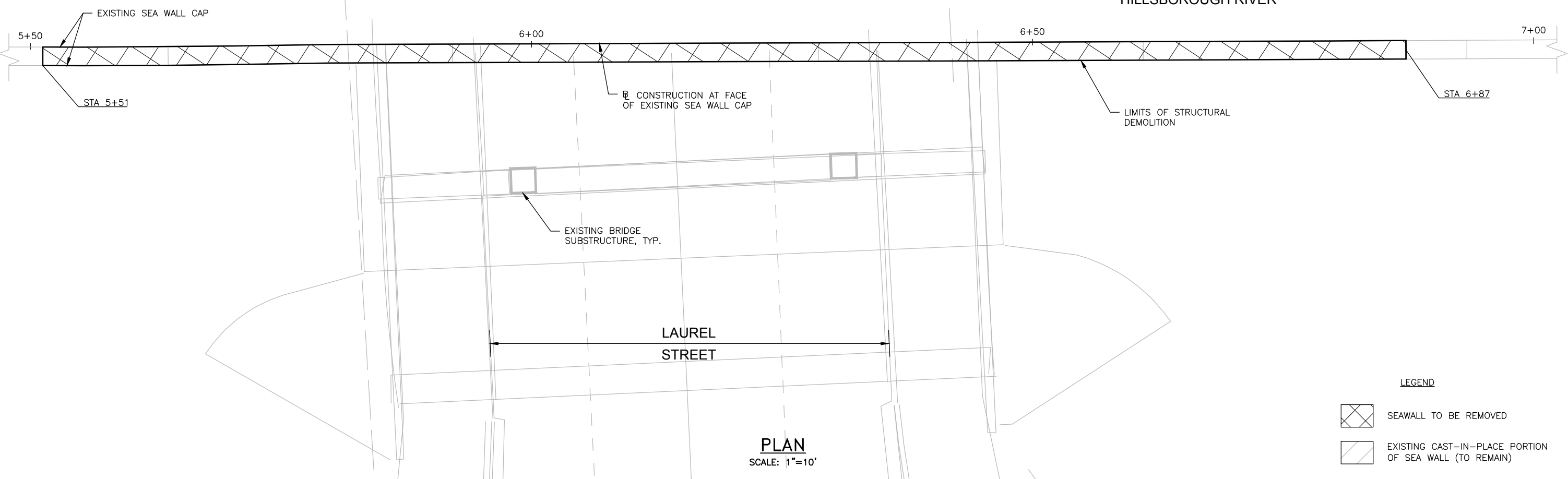
EVAN BIRK, PE
Registered Professional
74988
FL Reg. No. Sign Date

SD001
print date:

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\SD101-TIBC Bridge Demolition.dwg Last Modified: Jul 10, 2014 - 11:55am Plotted on: Jul 10, 2014 - 11:55am



**ELEVATION
(REFLECTED VIEW)**
SCALE: VERT.: 1"=2'; HORIZ.: 1"=10'



PLAN
SCALE: 1"=10'

LEGEND

- SEAWALL TO BE REMOVED
- EXISTING CAST-IN-PLACE PORTION OF SEA WALL (TO REMAIN)

NO.	BY	DATE	DESCRIPTION



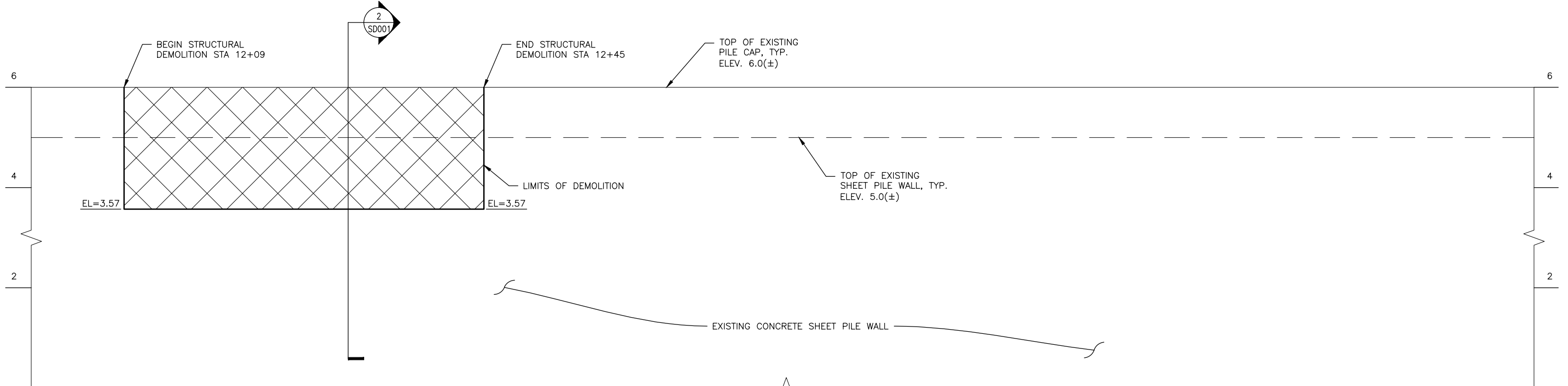
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

STRUCTURAL DEMOLITION PLAN UNDER LAUREL STREET

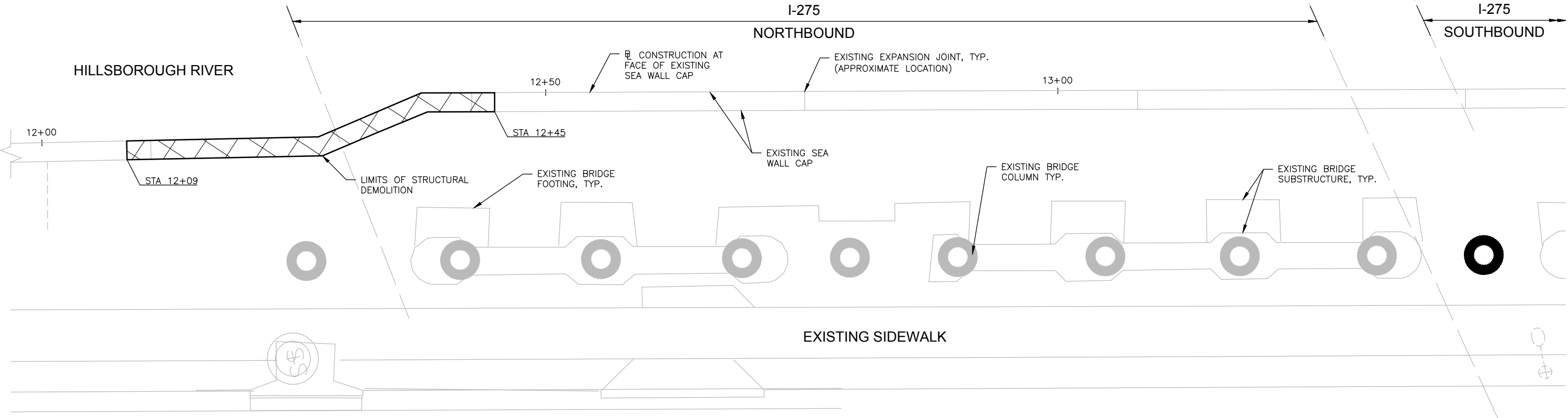
EVAN BIRK, PE
Registered Professional
74988
FL Reg No. Sign Date

SD101


print date



**ELEVATION
(REFLECTED VIEW)**
SCALE: VERT.: 1"=2'; HORIZ.: 1"=10'



PLAN
SCALE: 1"=10'

LEGEND
 SEAWALL TO BE REMOVED

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\SD101-TRBC Bridge Demo.dwg Last Modified: Jul 10, 2014 - 11:58am Plotted on: Jul 10, 2014 - 12:15pm by: evan_birk

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URS URS Corporation Southern
 7650 W. Courtney Campbell Cswy.
 Tampa, Florida 33607 (813) 286-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

STRUCTURAL DEMOLITION PLAN UNDER I-275

EVAN BIRK, PE
 Registered Professional
 74988
 FL Reg No. Sign Date

SD102
 print date

GENERAL SPECIFICATIONS:

1. FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AS AMENDED BY CONTRACT DOCUMENTS.
2. CITY OF TAMPA SPECIFIC PROVISIONS FOR THIS PROJECT.

DESIGN SPECIFICATIONS:

1. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), LRFD BRIDGE DESIGN SPECIFICATION (6TH EDITION).
2. 2009 AASHTO LRFD GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES, 2ND EDITION.
3. AASHTO GUIDE DESIGN SPECIFICATIONS FOR BRIDGE TEMPORARY WORKS (LATEST EDITION).
4. AASHTO CONSTRUCTION HANDBOOK FOR TEMPORARY WORKS (LATEST EDITION).

DESIGN LOADING:

1. 10,000 LB. H-5 TRUCK, AASHTO LRFD GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES, 2ND EDITION.

CONCRETE AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTIONS 346 AND 400, LATEST EDITION.
2. INTERFACE BETWEEN STRUCTURAL CANTILEVER SIDEWALK SECTION AND ANY EXISTING CONCRETE WILL RECEIVE APPLICATION OF EPOXY BONDING AGENT FROM FDOT QUALIFIED PRODUCTS LIST AND BE IMPLEMENTED PER FDOT SPECIFICATION 926 AND THE MANUFACTURER'S RECOMMENDATIONS.
3. ENVIRONMENTAL CONDITION: EXTREMELY AGGRESSIVE PER FDOT STRUCTURES DESIGN GUIDELINES SECTION 1.3.
4. MATERIALS SHALL CONFORM TO THE FOLLOWING:
 - 4.1. CONCRETE 28-DAY STRENGTH
 - 4.1.1. SLAB ON GRADE SIDEWALK..... 4000 PSI
 - 4.1.2. CANTILEVER SIDEWALK SECTION..... 5500 PSI (CLASS IV)*
- *CONCRETE SHALL CONTAIN ADMIXTURE FOR CORROSION PROTECTION WITH SILICA FUME, METAKAOLIN, OR ULTRAFINE FLY ASH.
5. REINFORCING STEEL AND DOWELS SHALL BE IN ACCORDANCE WITH ASTM A615, GRADE 60 OR ASTM A706, GRADE 60.
 - 5.1. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING STEEL ARE TO CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE OR OTHER.
 - 5.2. MINIMUM COVER TO REINFORCING STEEL SHALL BE 4.5" UNLESS NOTED OTHERWISE IN THIS PLAN SET.
 - 5.3. CONCRETE COVER SHOWN IN THE PLANS DOES NOT INCLUDE REINFORCEMENT PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE FDOT SPECIFICATIONS FOR ALLOWABLE TOLERANCES.
6. ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
7. CONTRACTOR SHALL REPAIR ALL SURFACE BLEMISHES IN CONCRETE WITHIN 24 HOURS AFTER FORM REMOVAL.
8. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315-99.
9. ALL REINFORCING BAR SPLICES AND HOOKS SHALL BE IN ACCORDANCE WITH ACI 318-05.
10. ALL CONSTRUCTION JOINTS BETWEEN EXISTING CONCRETE AND CAST IN PLACE CONCRETE SHALL BE COATED WITH EPOXY BONDING AGENT. EPOXY BONDING AGENT MAY BE OMITTED, IF HARDENED CONCRETE HAS BEEN PLACED WITHIN THE PREVIOUS 24 HOURS. EPOXY BONDING AGENT SHALL CONFORM TO FDOT STANDARD SPECIFICATION SECTION 400.
11. LOCATE CONSTRUCTION JOINTS AS INDICATED IN THIS PLAN SET.
12. EXPOSED CONCRETE SURFACES TO RECEIVE SURFACE TREATMENT AS SPECIFIED IN THIS PLAN SET AND IMPLEMENTED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS.

MISCELLANEOUS STRUCTURAL MATERIAL NOTES:

1. ALL MISCELLANEOUS METALS INCLUDING BOLTS, WASHERS, NUTS, ANGLES, INSERTS, AND PLATES SHALL BE ZINC-COATED OR HOT-DIPPED GALVANIZED.
2. FIELD TREAT DAMAGED GALVANIZED FINISH AND EXPOSED SURFACES IN ACCORDANCE WITH FDOT SPECIFICATION 562 AND 975.
3. INSTALL ADHESIVE ANCHORS AND DOWELS IN ACCORDANCE WITH FDOT SPECIFICATION 416, 926, AND 937.
4. INSTALL ANCHOR BOLTS IN ACCORDANCE WITH FDOT SPECIFICATION 460.
5. ANCHOR BOLT EMBEDMENT AND HOLE DIAMETER SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS TO DEVELOP 150% OF THE ANCHOR BOLT TENSILE CAPACITY.
6. MECHANICAL COUPLERS AND TURNBUCKLES SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS AND DEVELOP 125% OF THE STEEL REINFORCEMENT TENSILE CAPACITY.
7. EPOXY GROUT FOR BONDING DOWELS SHALL COMPLY WITH ASTM C-881 AND FDOT SPECIFICATION 926.
8. COMPRESSIBLE JOINT FILLER SHALL BE DURAbordHD100 AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS OR APPROVED EQUAL LOW-LOAD TRANSFER JOINT MATERIAL.

CONSTRUCTION NOTES:

1. ALL FIELD LAYOUT AND SURVEYING FOR CONSTRUCTION OF THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR AT HIS EXPENSE; UNDER THE DIRECTION OF A LICENSED PROFESSIONAL LAND SURVEYOR.
2. VERTICAL CONTROL IS BASED UPON N.G.V.D. 1929. REFER TO GENERAL NOTES AND SURVEY PLAN SHEETS FOR VERTICAL AND HORIZONTAL CONTROL AND TIDAL DATA.
3. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING STRUCTURES, IMPROVEMENTS, UTILITIES, PROPERTY LINES AND CONFIRM ALL PROPOSED DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION OR ORDERING ANY MATERIALS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING HIS BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUB-SURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED AND THE EQUIPMENT, LABOR AND MATERIAL REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT.
5. SHOULD THE SURFACE OR SUBSURFACE CONDITIONS VARY FROM WHAT IS SHOWN ON THESE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
6. ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
7. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP EXCAVATIONS DRY AND SHALL PROVIDE ALL SHORING, SHEETING, AND BRACING NECESSARY TO PROTECT WORKMEN, ADJACENT STRUCTURES, UTILITIES, EXISTING PAVEMENT, OR TO MINIMIZE TRENCH WIDTH AT NO ADDITIONAL COST.
8. CONTRACTOR SHALL CONSTRUCT A CONTINUOUS DRAINAGE LAYER BEHIND THE SEA WALL COMPRISED OF COARSE AGGREGATE TO THE DIMENSIONS SHOWN SHEETS S501 AND S502. THE COARSE AGGREGATE SHALL BE GRAVEL OR STONE MEETING THE REQUIREMENTS OF SECTIONS 901-2 OR 901-3 OF THE 2013 FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE GRADATION OF THE COARSE AGGREGATE SHALL MEET SECTION 901, GRADES 2, 467, 5, 56 OR 57 STONE OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. WRAP THE DRAINAGE LAYER AS SHOWN, WITH TYPE D-3 GEOTEXTILE FABRIC IN ACCORDANCE WITH INDEX 199 OF THE 2013 FDOT DESIGN STANDARDS. ALL FILTER FABRIC JOINTS SHALL OVERLAP A MINIMUM OF 1'. CORE DRILL THE NEW SEA WALL CAP AND/OR EXISTING SHEET PILE WALLS AT THE APPROPRIATE DIAMETER TO ACCOMMODATE THE INSTALLATION OF A 3" DIAMETER PVC PIPE (SCH 40). INSTALL A 3" DIAMETER PRE-FABRICATED STEEL FILTER AS FLUSH MOUNTED ON THE NEW SEA WALL AT THE WATERSIDE END OF THE PVC DRAIN PIPE. THE 3" DIAMETER STEEL FILTER SHALL BE MANUFACTURED BY JET FILTER SYSTEM L.L.C. OR AN APPROVED EQUAL.
9. THE CONTRACTOR SHALL ANTICIPATE TIDAL FLUCTUATIONS DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL DETERMINE WORK SCHEDULE FROM THE TABLES FOR THE PERIOD OF CONSTRUCTION. THE SITE IS SUBJECT TO VARIABLE WAVE CONDITIONS AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE TEMPORARY SUPPORT FOR THE STRUCTURES AND SHORELINE DURING CONSTRUCTION.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ADEQUACY OF THE EXISTING WALL WITH RESPECT TO ANY LOADS RESULTING FROM THE CONTRACTOR'S CONSTRUCTION PROCEDURES OR OPERATIONS.
11. SUPPLEMENTAL REINFORCEMENT TO STABILIZE AND SUPPORT THE REQUIRED REINFORCEMENT SHOWN IN THESE PLANS IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS NOT INCLUDED IN THE PLANS OR QUANTITIES.
12. ALL BORROW MATERIAL REQUIRED FOR CONSTRUCTION OF THE PROJECT SHALL BE PROVIDED BY THE CONTRACTOR.
13. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "DESIGN STANDARDS".
14. ALL ACTIVITIES WITHIN RIGHT-OF-WAY WILL REQUIRE CONFORMANCE TO THE "MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS". (CHAPTER 316 FLORIDA STATUTES).
10. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF TAMPA STANDARDS, DETAILS, AND SPECIFICATIONS.
11. ALL WORK AREAS SHALL BE COMPLETED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF OSHA SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS RESULTING FROM THIS JOB.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL/DISPOSAL OF ALL BROKEN CONCRETE, ROOTS, TREES, MUCK, SOIL BEHIND EXISTING SEA WALL, ETC. FROM HIS OPERATION, AND FURNISHING AND COMPACTING SUITABLE REPLACEMENT BACKFILL MATERIAL, AND FILL MATERIAL FOR THE PROJECT.
13. ALL EXCAVATION AND BACKFILLING SHALL ADHERE FDOT SPECIFICATIONS 120, 125, AND 455. BACKFILL UNDER CANTILEVER SIDEWALK SECTION SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH ASTM D1557 IN 6". HAND TAMPING FOR COMPACTION SHALL BE USED WITHIN FIVE (5) FEET OF EXISTING SEA WALL.
14. CONTRACTOR SHALL SUBMIT FOR APPROVAL A CASTING SEQUENCE IF THE STRUCTURAL CANTILEVER SIDEWALK SECTION CANNOT BE COMPLETED AT ONE TIME. SUBMITTAL SHALL INCLUDE A PLAN VIEW SHOWING THE LOCATION OF THE PROPOSED CONSTRUCTION JOINTS AND COORDINATED WITH THE LANDSCAPE ARCHITECT OF RECORD.

REMOVAL OF EXISTING STRUCTURES:

1. NO EXPLOSIVES SHALL BE PERMITTED DURING ANY PHASE OF THE PROPOSED CONSTRUCTION FOR SEA WALL REMOVAL.
2. CONTRACTOR SHALL DISPOSE OF SPOILS OFF SITE AND NOT IN THE RIVER.
3. ALL CONSTRUCTION/DEMOLITION AND DISPOSAL TO BE IN ACCORDANCE WITH APPLICABLE CODES AND ENVIRONMENTAL RULES AND REGULATIONS.
4. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN TO THE CITY FOR APPROVAL.
5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO STRICTLY CONTAIN THE DEMOLITION WITHIN THE LIMITS OF THE REQUIRED CONSTRUCTION AND AVOID ANY DAMAGE TO EXISTING STRUCTURES.
6. PRIOR TO GENERAL DEMOLITION, THE CONTRACTOR SHALL SAW CUT WHERE NOTED, OR OTHERWISE PROVIDE A SMOOTH CLEAN BREAK FROM ALL CONNECTING LINKS TO THE REMAINING STRUCTURE.
7. ANY DAMAGE INCURRED IN EXECUTION OF THIS CONTRACT TO ANY PART OF THE PROPERTY AND/OR STRUCTURE NOT SPECIALLY DESIGNATED FOR DEMOLITIONS SHALL BE REPAIRED, REPLACED, AND/OR RECONSTRUCTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, TO ITS ORIGINAL CONDITION AS DIRECTED BY THE OWNER.
8. THE CONTRACTOR SHALL USE METHODS/PROCEDURES DEEMED APPROPRIATE FOR REPAIR/REPLACEMENT OF STRUCTURAL COMPONENTS SHOWN.
9. EXISTING STRUCTURE AND/OR COMPONENTS TEMPORARILY REMOVED TO FACILITATE SUCH REPAIRS/REPLACEMENT SHALL BE REPAIRED, RESTORED, OR RECONSTRUCTED AS NOTED ABOVE.
10. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE SEA WALL AND EMBANKMENT DURING ALL CONSTRUCTION OPERATIONS.
11. THE CONTRACTOR SHALL LIMIT THE EXTENT OF THE SEA WALL CAP AND SHEET PILE REMOVAL AND PROVIDE TEMPORARY SHORING AND BRACING, AS DEEMED NECESSARY BY THE CONTRACTOR, TO MAINTAIN THE SEA WALL'S STABILITY.
12. THE PORTIONS OF SEA WALL CAP AND SHEET PILE TO BE REMOVED SHALL BE DONE TO AVOID DAMAGE TO EXISTING TIE BACK ANCHORS THAT ARE DESIGNATED TO REMAIN. ANY DAMAGE TO THE PORTION OF THE SEA WALL CAP, SHEET PILE, OR TIE BACKS NOT SCHEDULED FOR DEMOLITION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
13. THE CONTRACTOR SHALL EXPOSE AND LOCATE ALL TIE BACK ANCHORS AT THE SEA WALL CAP PRIOR TO ANY CAP AND/OR TIE BACK REMOVAL OPERATIONS.
14. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY TIE BACK ANCHORS THAT EXHIBIT DETERIORATION DUE TO CORROSION FOR POSSIBLE ADDITIONAL REMEDIAL REPAIRS.

HELICAL PILE & TIE-BACK SPECIFICATIONS:

1. THE CONTRACTOR SHALL ANTICIPATE THAT DIFFICULT INSTALLATION OF PILES AND TIE-BACKS MAY BE ENCOUNTERED DUE TO SOIL CONDITIONS, EXISTING STRUCTURES, AND/OR BURIED DEBRIS. REFER TO SPECIFICATIONS FOR PILES AND TIE-BACKS FOR FURTHER INFORMATION.

DRWN: NAH				
DSGN: EAB				
CHND: CC				
APVD: DWS				
DATE: 07/11/14				
JOB #: 12011325				
	NO.	BY	DATE	DESCRIPTION
REVISIONS				



TAMPA RIVERWALK - DOYLE CARLTON SEGMENT

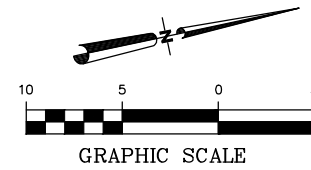
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

CANTILEVER SIDEWALK STRUCTURAL NOTES

EVAN BIRK, PE
Registered Professional
74988
FL Reg No. Sign Date

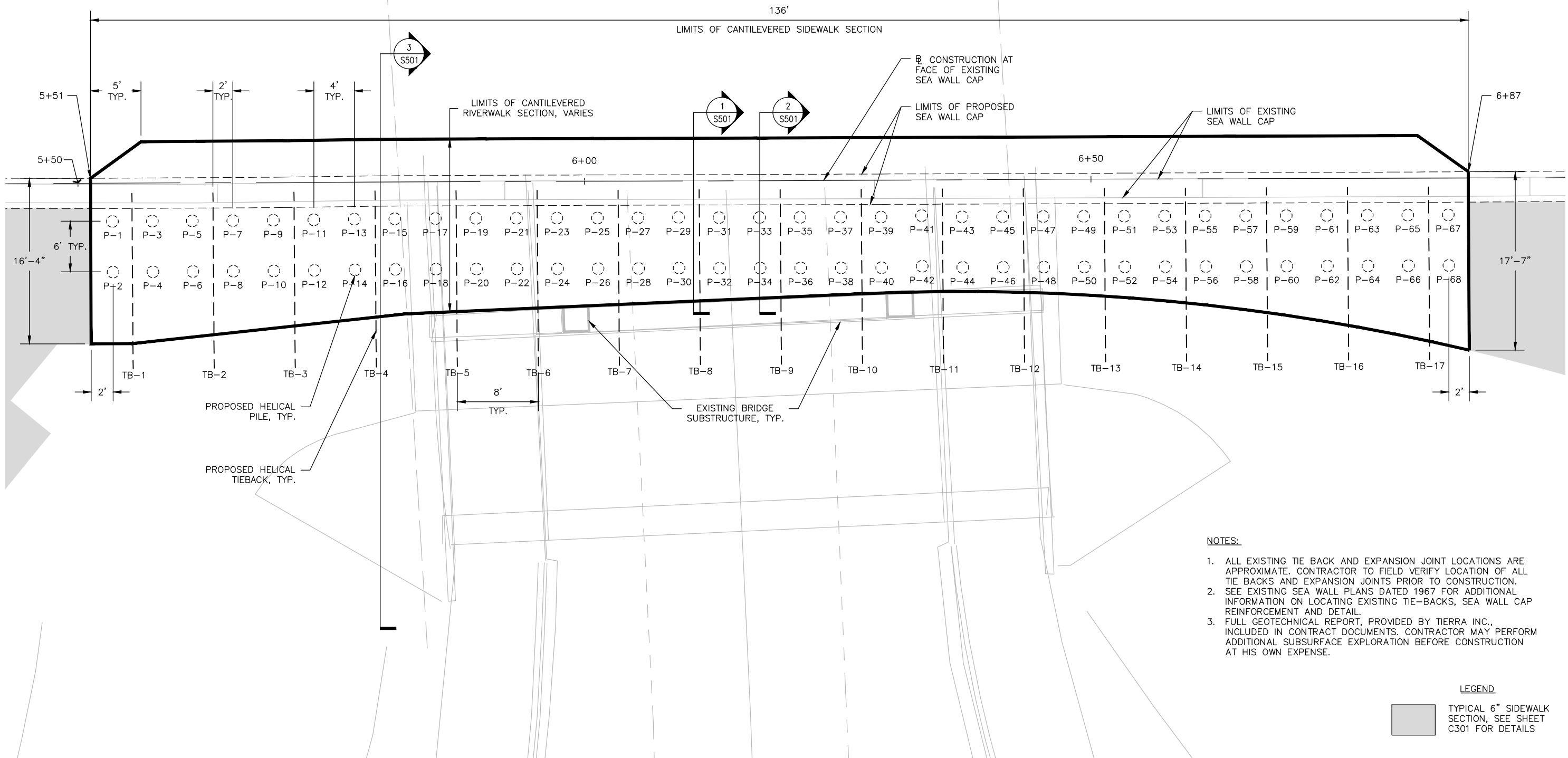
S001

print date



HILLSBOROUGH RIVER

LAUREL STREET
BRIDGE LIMITS



NOTES:

1. ALL EXISTING TIE BACK AND EXPANSION JOINT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL TIE BACKS AND EXPANSION JOINTS PRIOR TO CONSTRUCTION.
2. SEE EXISTING SEA WALL PLANS DATED 1967 FOR ADDITIONAL INFORMATION ON LOCATING EXISTING TIE-BACKS, SEA WALL CAP REINFORCEMENT AND DETAIL.
3. FULL GEOTECHNICAL REPORT, PROVIDED BY TIERRA INC., INCLUDED IN CONTRACT DOCUMENTS. CONTRACTOR MAY PERFORM ADDITIONAL SUBSURFACE EXPLORATION BEFORE CONSTRUCTION AT HIS OWN EXPENSE.

LEGEND

TYPICAL 6" SIDEWALK SECTION, SEE SHEET C301 FOR DETAILS

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\S101-TBDC Bridges.swg Last Modified: Jul 08, 2014 - 1:58pm Plotted on: Jul 08, 2014 - 1:57pm by: even_bak

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DSGN: EAB				
CHND: CC				
APVD: DWS				
DATE: 07/11/14				
JOB #: 12011325				
NO.	BY	DATE	DESCRIPTION	REVISIONS

URS URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 288-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

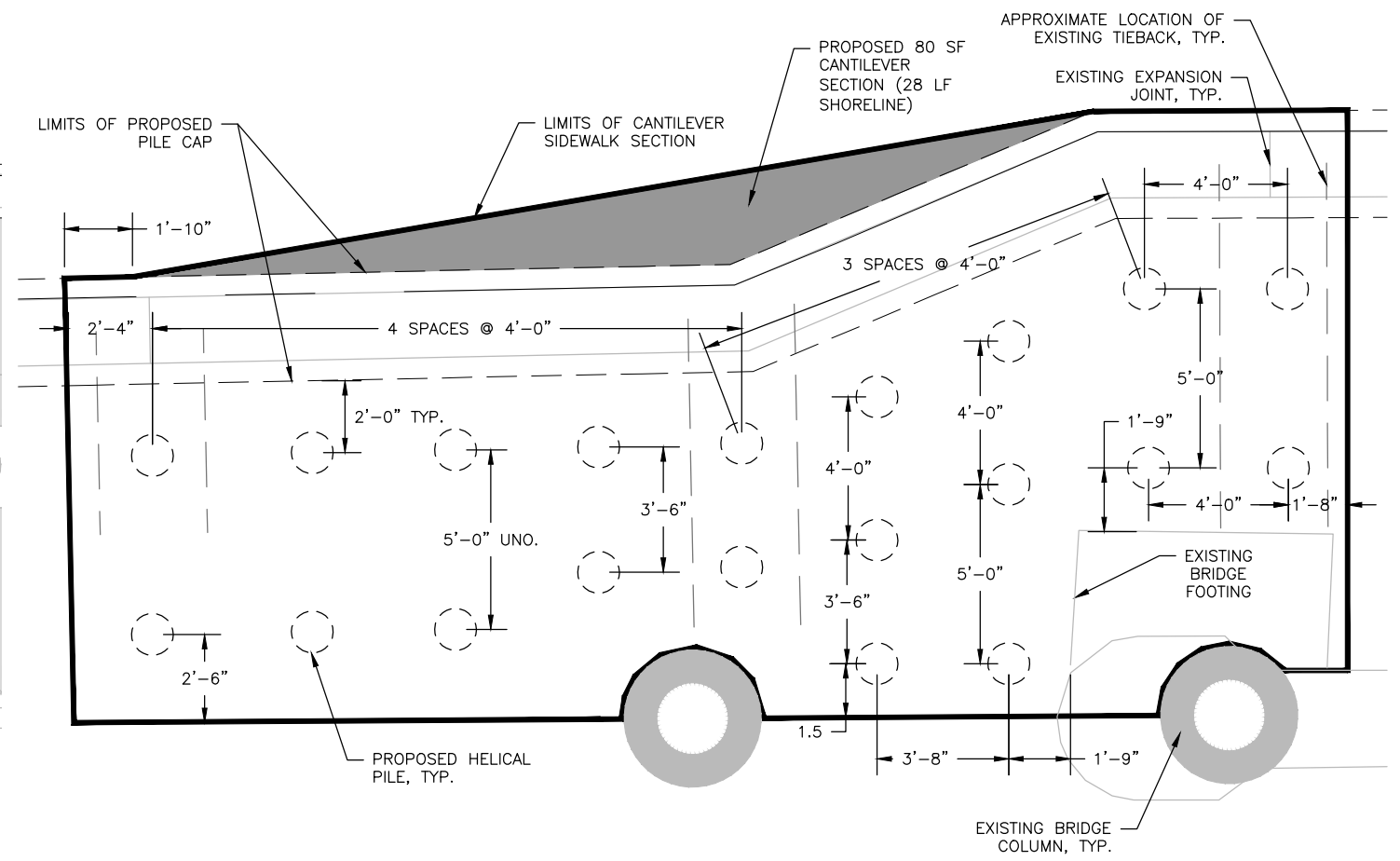
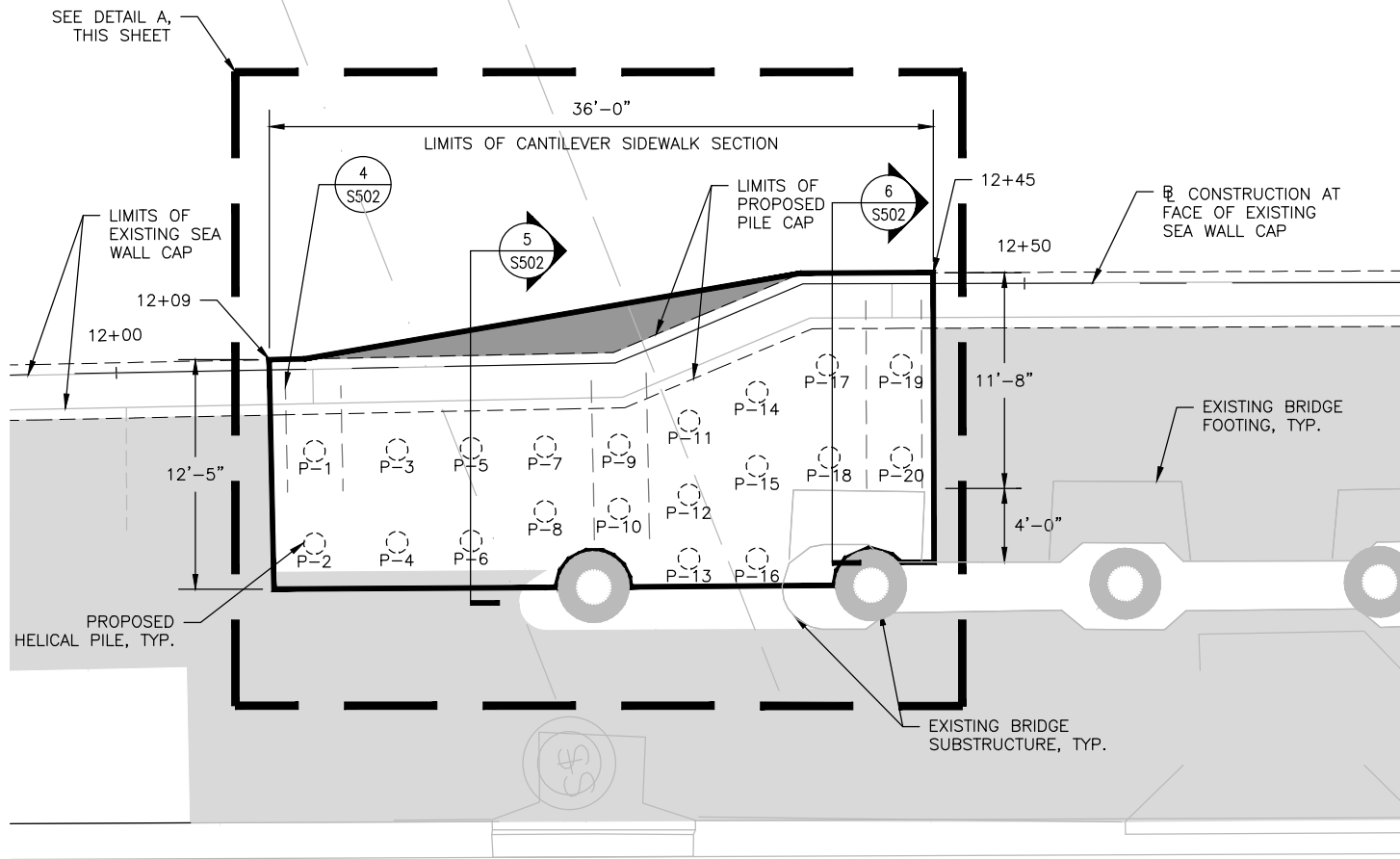
CANTILEVER SIDEWALK SECTION UNDER LAUREL STREET

EVAN BIRK, PE
Registered Professional
74988
FL Reg No. Sign Date

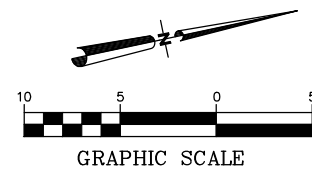
S101

print date

HILLSBOROUGH RIVER
I-275 NORTHBOUND
BRIDGE LIMITS



DOYLE CARLTON DRIVE



LEGEND

- TYPICAL 6" SIDEWALK SECTION, SEE SHEET C301 FOR DETAILS
- AREA OF CANTILEVER SECTION OVER WATER

NOTES:

1. ALL EXISTING TIE BACK AND EXPANSION JOINT LOCATIONS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATION OF ALL TIE BACKS AND EXPANSION JOINTS PRIOR TO CONSTRUCTION.
2. SEE EXISTING SEA WALL PLANS DATED 1967 FOR ADDITIONAL INFORMATION ON LOCATING EXISTING TIE-BACKS, SEA WALL CAP REINFORCEMENT AND DETAIL.
3. FULL GEOTECHNICAL REPORT, PROVIDED BY TIERRA INC., INCLUDED IN CONTRACT DOCUMENTS. CONTRACTOR MAY PERFORM ADDITIONAL SUBSURFACE EXPLORATION BEFORE CONSTRUCTION AT HIS OWN EXPENSE.

DETAIL A:
EXISTING TIE BACK TIE-IN DETAIL
AND PROPOSED PILE LAYOUT

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton\Production\DWG\S101-TIBC Bridges.dwg Last Modified: Jul 08, 2014 - 1:57pm Plotted on: Jul 08, 2014 - 1:58pm by: evan_btk

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OB #: 12011325				

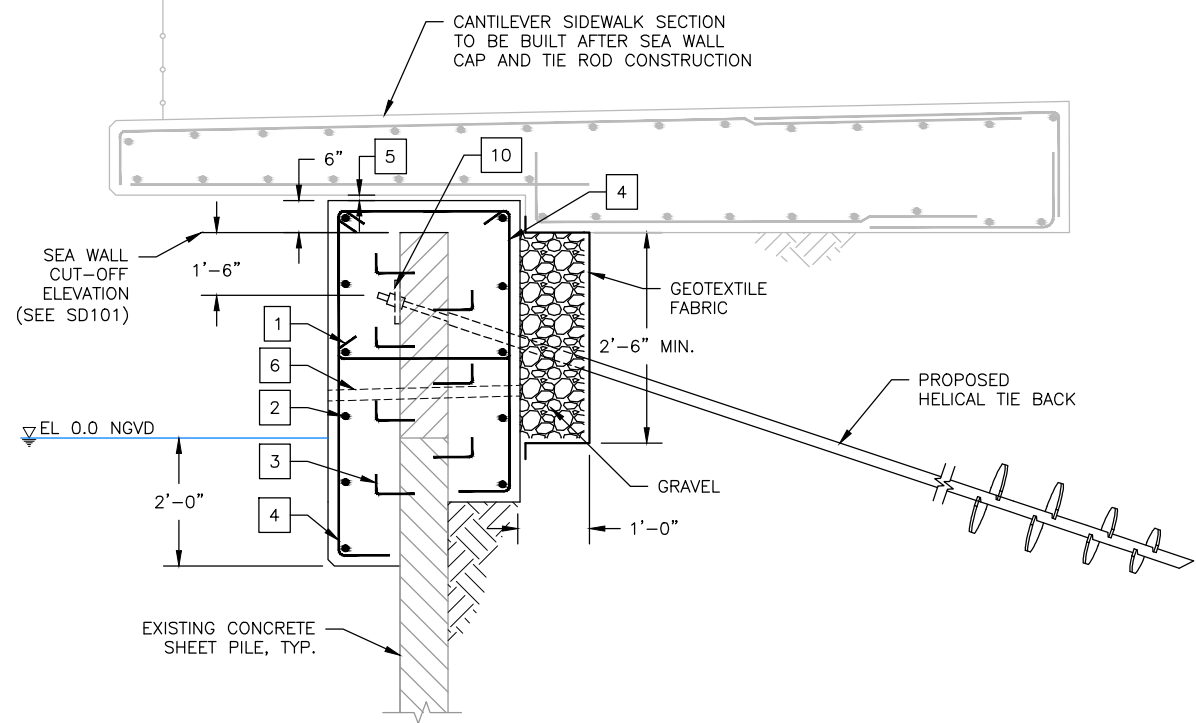


TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

CANTILEVER SIDEWALK SECTION UNDER I-275

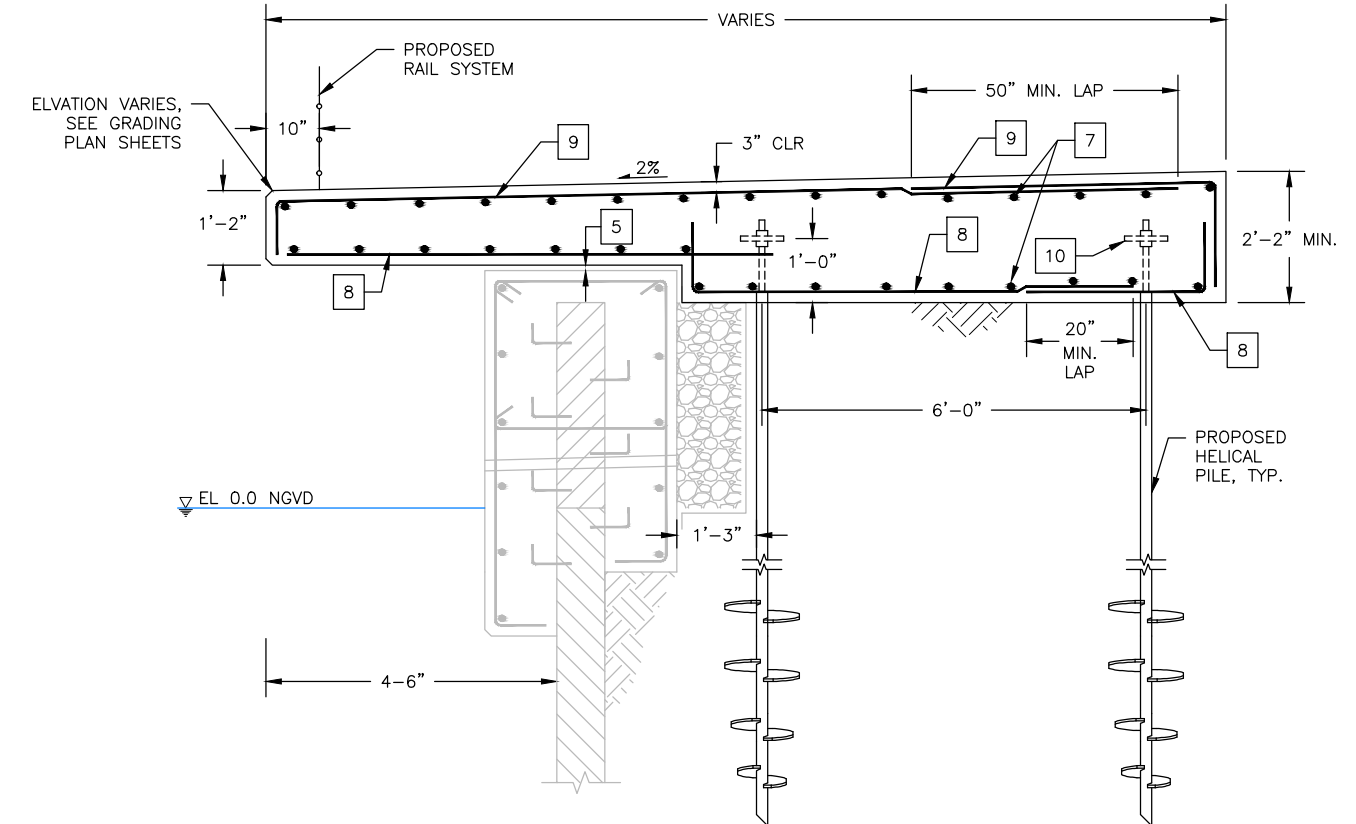
EVAN BIRK, PE
Registered Professional
74988
FL Reg No. Sign Date

S102



TIEBACK UNDER LAUREL ST.
NTS S101 1

- STRUCTURAL NOTES**
- #4 STIRRUP @ 6" O.C.
 - #6 BAR, TYP.
 - DRILL AND EPOXY GROUT #4 DOWELS @ 12" O.C. WITH 6" EXTENSION INTO FASCIA, TYP.
 - #4 STIRRUP @ 6" O.C.
 - 1" CONSTRUCTION JOINT. SEE MISCELLANEOUS STRUCTURAL MATERIALS NOTE #8 ON SHEET S001.
 - 3" PVC WEEP HOLE TO MATCH EXISTING WEEP HOLE LOCATIONS AND ELEVATIONS. SEE CONSTRUCTION NOTE #8 ON SHEET S001
 - #4 BAR @ 12" O.C., TYP.
 - #4 BAR @ 12" O.C.
 - #7 BAR @ 6" O.C.
 - 1-1/2"x10"x10" ANCHOR BEARING PLATE, TYP.

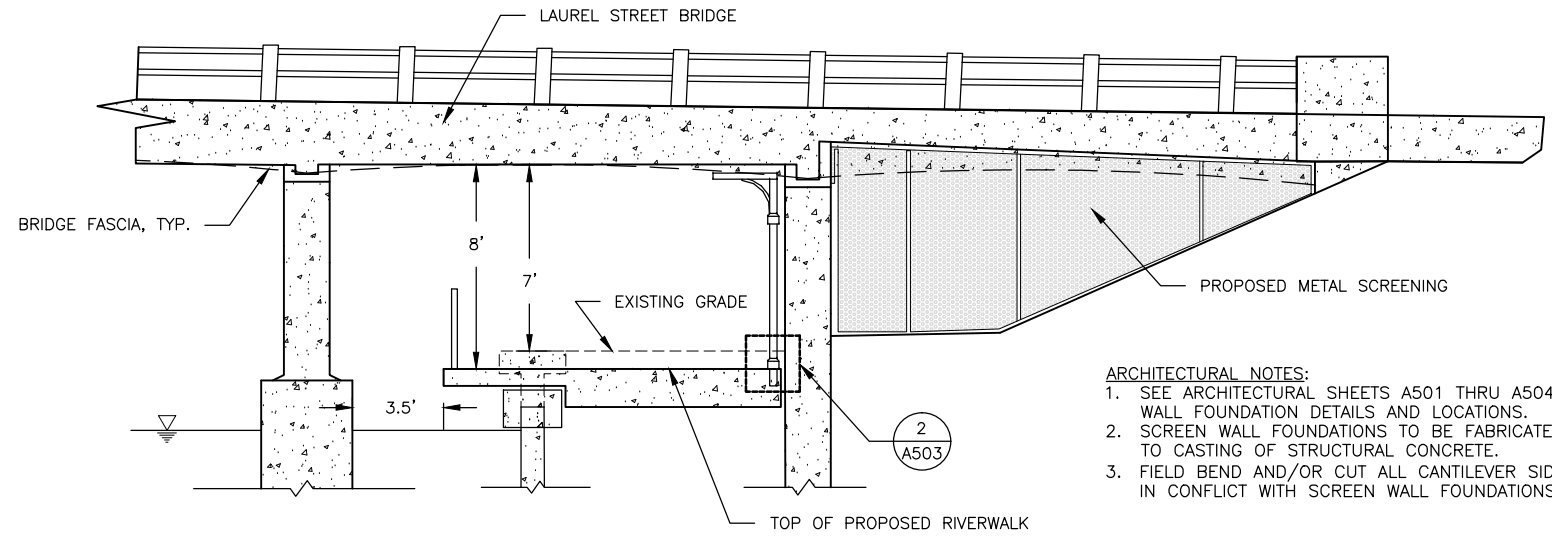


PILES UNDER LAUREL ST.
NTS S101 2

SECTIONS APPLY TO:
STA. 5+51 TO STA. 6+87

TIE-BACK NOTES:
ANCHOR TYPE: CHANCE@SQUARE SHAFT HELICAL ANCHOR
SHAFT MATERIAL: TYPE SS5 (1.5"x1.5" SOLID SQUARE SHAFT)
HELICAL CONFIGURATION: 8"x10"x12"x14"
INSTALLATION ANGLE: 30°
ESTIMATED LENGTH: 43-48 FT
MIN. FREE LENGTH: 15 FT
DESIGN LOAD: 26 KIPS
ULTIMATE LOAD: 39 KIPS
TEST LOAD (PERFORMANCE & PROOF TESTS): 33 KIPS (125% DESIGN LOAD)
MIN. INSTALLATION TORQUE: 4,000 FT-LBS
MAX. INSTALLATION TORQUE: 5,500 FT-LBS

PILE NOTES:
PILE TYPE: CHANCE@HELICAL PULLDOWN™ PILE
SHAFT MATERIAL: TYPE SS175 (1.75"x1.75" SOLID SQUARE SHAFT)
HELICAL CONFIGURATION: 8"x10"x12"x14"
GROUT COLUMN DIAMETER: 5"
ESTIMATED LENGTH: 30-35 FT
MIN. OVERALL LENGTH: 25 FT
DESIGN LOAD:
62 KIPS COMPRESSION
14 KIPS TENSION
ULTIMATE LOAD: 124 KIPS COMPRESSION
28 KIPS TENSION
TEST LOAD (PRE-PRODUCTION): 124 KIPS (200% DESIGN LOAD)
TEST LOAD (PRODUCTION): 62 KIPS (100% DESIGN LOAD)
MIN. INSTALLATION TORQUE: 10,000 FT-LBS
MAX. INSTALLATION TORQUE: 11,000 FT-LBS



- ARCHITECTURAL NOTES:**
- SEE ARCHITECTURAL SHEETS A501 THRU A504 FOR COMPLETE SCREEN WALL FOUNDATION DETAILS AND LOCATIONS.
 - SCREEN WALL FOUNDATIONS TO BE FABRICATED AND INSTALLED PRIOR TO CASTING OF STRUCTURAL CONCRETE.
 - FIELD BEND AND/OR CUT ALL CANTILEVER SIDEWALK REINFORCEMENT IN CONFLICT WITH SCREEN WALL FOUNDATIONS.

SECTION/ELEVATION
NTS S101 3

Drawing Name: S:\Projects\Tampa Riverwalk Doyle Carlton\Production\DWG\S001 TRWC DES.dwg Last Modified: Aug 27, 2014 - 4:13pm Plotted on: Aug 28, 2014 - 7:24am by lynn_center

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DSGN: EAB				
CHKD: CC				
APVD: DWS				
DATE: 07/11/14				
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REVISIONS				

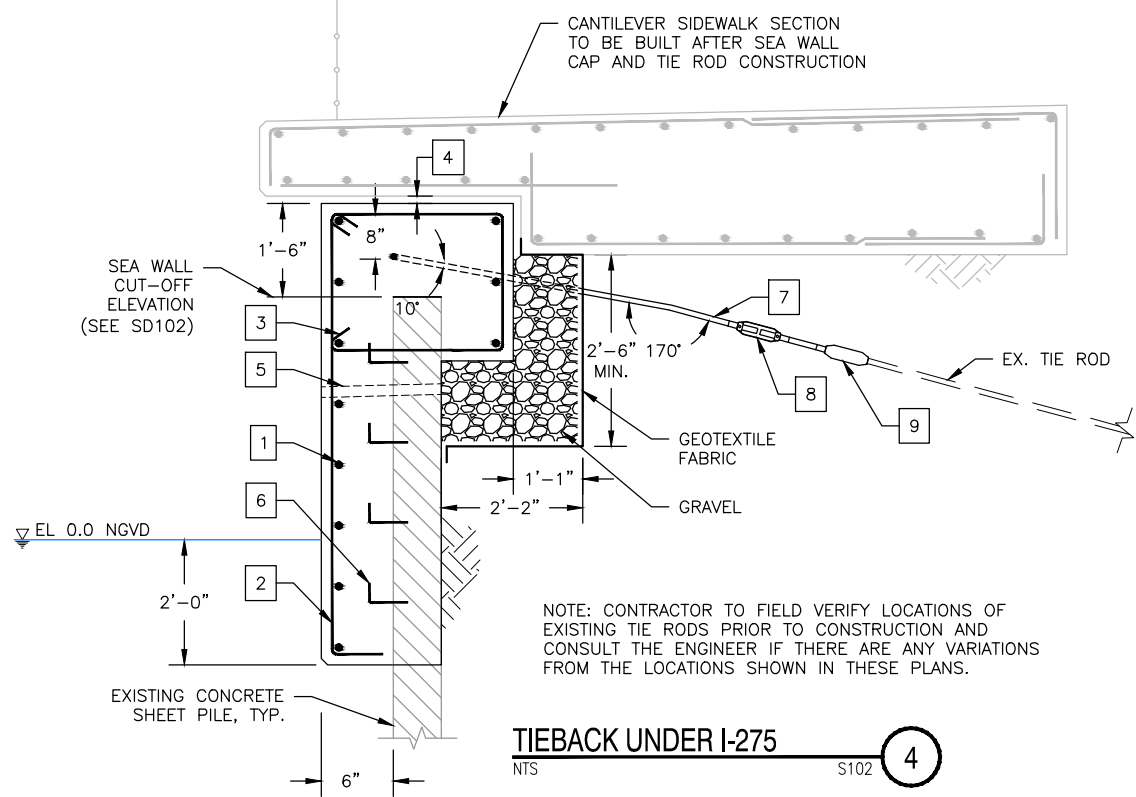


TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

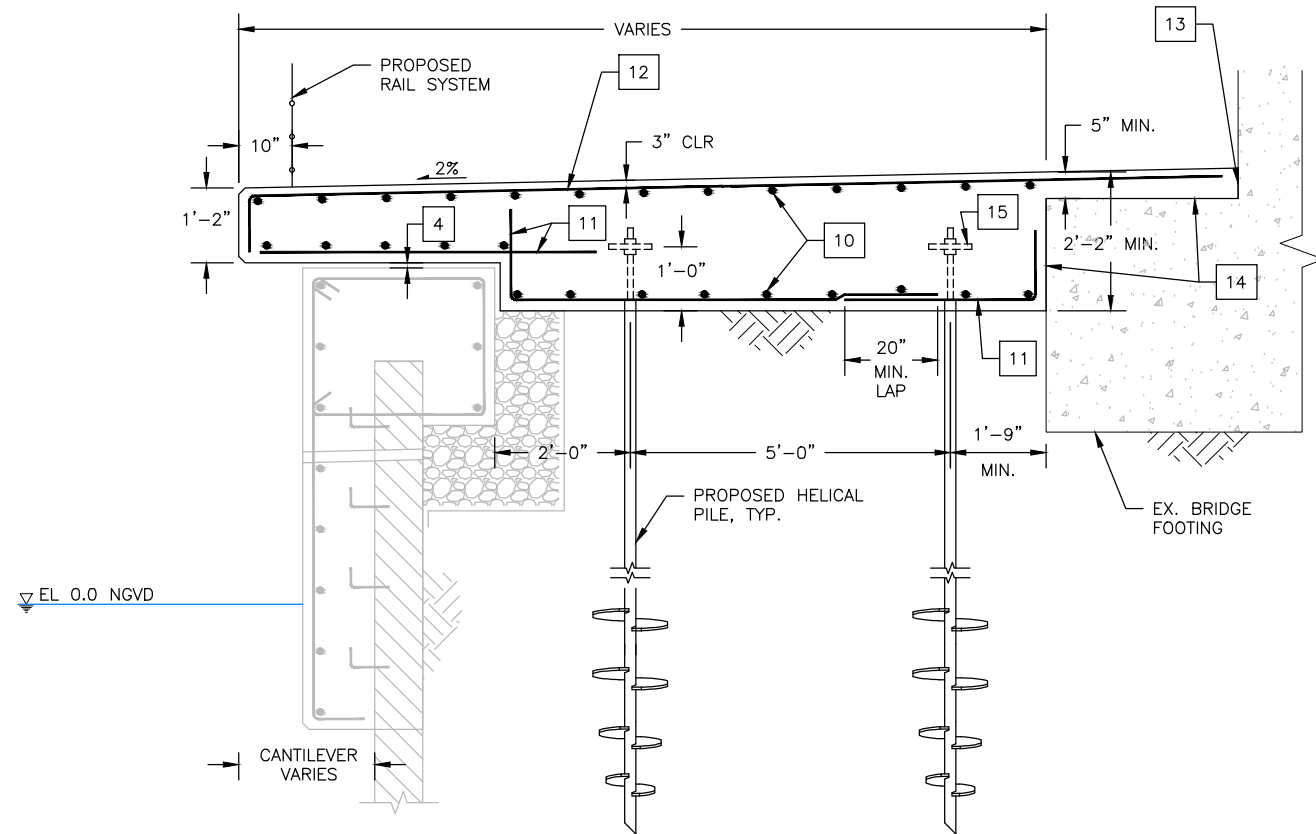
CANTILEVER SIDEWALK CROSS SECTIONS

EVAN BIRK, PE
Registered Professional
74986
FL Reg. No. Sign Date

S501



TIEBACK UNDER I-275
NTS S102 4



PILES UNDER I-275
NTS S102 6

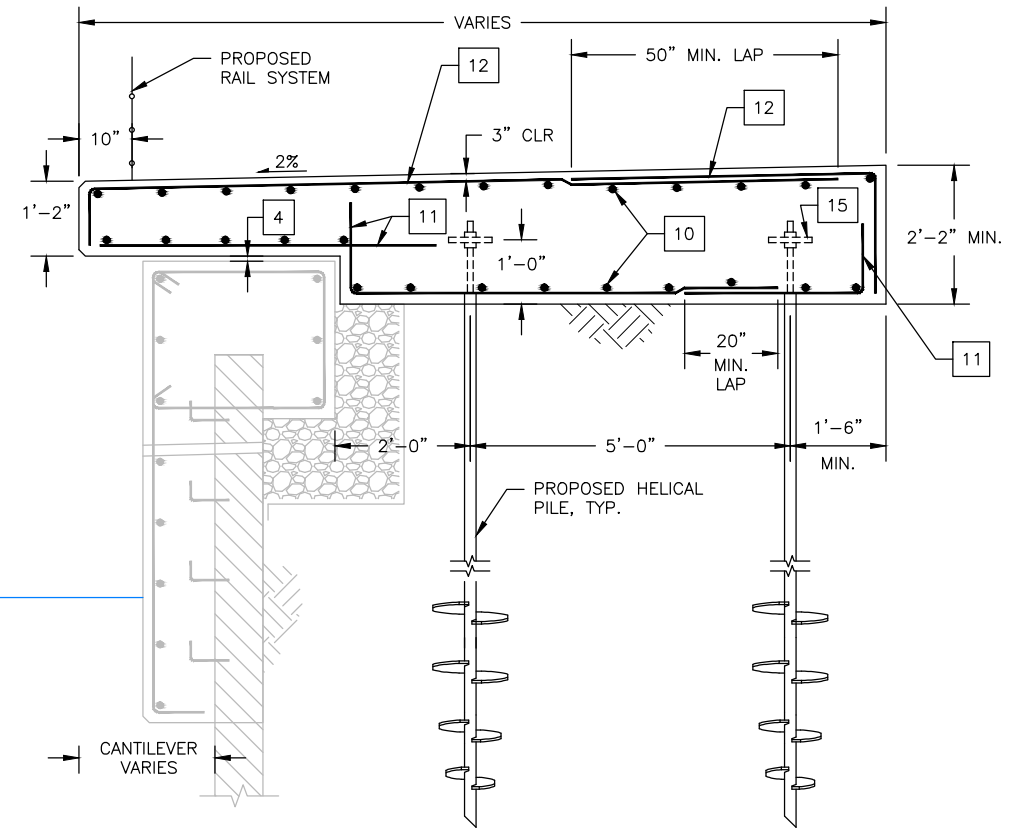
STRUCTURAL NOTES

1. #6 BAR, TYP.
2. #4 STIRRUP @ 6" O.C.
3. #4 STIRRUP @ 6" O.C.
4. 1" CONSTRUCTION JOINT. SEE MISCELLANEOUS STRUCTURAL MATERIALS NOTE #8 ON SHEET S001
5. 3" PVC WEEP HOLE TO MATCH EXISTING WEEP HOLE LOCATIONS AND ELEVATIONS. SEE CONSTRUCTION NOTE #8 ON SHEET S001
6. DRILL AND EPOXY GROUT #4 DOWELS @ 12" O.C. WITH 6" EXTENSION INTO FASCIA, TYP.
7. NEW GRADE 60 TIE ROD, MATCH EXISTING TIE ROD, WITH STANDARD 90° HOOK EMBEDDED IN SEAWALL CAP
8. TURNBUCKLE
9. MECHANICAL COUPLER
10. #4 BAR @ 12" O.C., TYP.
11. #4 BAR @ 12" O.C.
12. #7 BAR @ 6" O.C.
13. 1/2" EXPANSION JOINT AND PREFORMED JOINT FILLER
14. FDOT EPOXY BONDING AGENT. SEE CONCRETE AND REINFORCING STEEL NOTE #3 ON SHEET S001
15. 1-1/2"x10"x10" ANCHOR BEARING PLATE, TYP.

PILE NOTES:

PILE TYPE: CHANCE® HELICAL PULLDOWN™ PILE
 SHAFT MATERIAL: TYPE SS175 (1.75"x1.75" SOLID SQUARE SHAFT)
 HELICAL CONFIGURATION: 8"x10"x12"x14"
 GROUT COLUMN DIAMETER: 5"
 ESTIMATED LENGTH: 30-35 FT
 MIN. OVERALL LENGTH: 25 FT
 DESIGN LOAD: 62 KIPS COMPRESSION
 14 KIPS TENSION
 ULTIMATE LOAD: 124 KIPS COMPRESSION
 28 KIPS TENSION
 TEST LOAD (PRE-PRODUCTION): 124 KIPS (200% DESIGN LOAD)
 TEST LOAD (PRODUCTION): 62 KIPS (100% DESIGN LOAD)
 MIN. INSTALLATION TORQUE: 10,000 FT-LBS
 MAX. INSTALLATION TORQUE: 11,000 FT-LBS

SECTIONS APPLY TO:
 STA. 12+09 TO STA. 12+45



PILES UNDER I-275
NTS S102 5

Drawing Name: S:\Projects\Tampa Riverwalk Doyle Carlton\Production\DWG\S001 TRWC DEFS.dwg Last Modified: Jul 09, 2014 - 10:40am Plotted on: Jul 09, 2014 - 10:41am by evan_birk

DRWN: NAH				
DSGN: EAB				
CHKD: CC				
APVD: DWS				
DATE: 07/11/14				
NO.	BY	DATE	DESCRIPTION	
REVISIONS				



TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

CANTILEVER SIDEWALK CROSS SECTIONS

EVAN BIRK, PE
 Registered Professional
 74988
 FL Reg. No. Sign Date

S502

NOTES FOR ART SCULPTURE FOUNDATION: AMERICA, AMERICA

A. BUILDING CODES

1. FLORIDA BUILDING CODE, 2010 EDITION WITH 2012 SUPPLEMENT.
2. ACI 318-08 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.

B. BASIS OF DESIGN

1. THE DIMENSIONS OF THE METAL SCULPTURE ARE BASED ON THE ENGINEERING DRAWING BY J. AGUERO & CO. DATED JANUARY 19, 1978.
2. WIND LOADS PER ASCE 7-10 FOR AN ULTIMATE DESIGN WIND SPEED (3-SECOND GUST) OF 145 MPH AND NOMINAL DESIGN WIND SPEED OF 112 MPH.
 - a. RISK CATEGORY II
 - b. EXPOSURE "C"
 - c. OPEN STRUCTURE WITH A GUST-EFFECT FACTOR = 1.14 AND FORCE COEFFICIENTS RANGING FROM 1.60 TO 1.63.
 - d. NOMINAL WIND DESIGN PRESSURE = 24.57 PSF.
3. THE DESIGN WAS BASED ON THE ASSUMPTION THAT THE METAL SCULPTURE HAS BEEN PROPERLY FABRICATED, ERECTED, MAINTAINED, CONNECTIONS ARE IN PLACE, AND THAT THE STRUCTURAL INTEGRITY OF THE METAL SCULPTURE HAS NOT BEEN COMPROMISED DUE TO DAMAGE OR CORROSION OF LOAD CARRYING MEMBERS.

C. CONSTRUCTION MATERIALS

1. CAST-IN-PLACE CONCRETE FOR THE FOUNDATION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF F'C = 4000 PSI AT 28 DAYS.
2. CAST-IN-PLACE CONCRETE FOR THE "PROTECTION POUR" LAYER AND SIDEWALK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF F'C = 3000 PSI AT 28 DAYS.
3. REINFORCING STEEL FOR CONCRETE SHALL BE ASTM A 615, GRADE 60, UNCOATED.
4. WELDED WIRE FABRIC FOR THE "PROTECTION POUR" LAYER SHALL BE ASTM A 1064. SIZE SHALL BE W.W.F. 6X6-W1.4XW1.4. FLAT SHEETS SHALL BE USED. ROLLED WELDED WIRE FABRIC IS NOT PERMITTED.

D. FOUNDATION SOIL

1. NET MAXIMUM ALLOWABLE BEARING CAPACITY OF SOIL = 2000 PSF.
2. REFER TO THE MAY 6, 2014 GEOTECHNICAL REPORT BY TIERRA, INC. (TIERRA PROJECT NO. 6511-13-025)
3. ALL EARTHWORK AND COMPACTION SHALL BE AS DETAILED IN THE "GENERAL RECOMMENDATIONS - SHALLOW SPREAD FOOTING ALTERNATIVE" SECTION OF THE GEOTECHNICAL REPORT. THE GROUNDWATER SHALL BE ASSUMED TO BE AT THE GROUND SURFACE. THE CONTRACTOR SHALL EXPECT TO PERFORM DEWATERING AS PART OF THE WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT THE FLOTATION OF METAL SCULPTURE AND FOUNDATION UNTIL CONSTRUCTION IS COMPLETE.

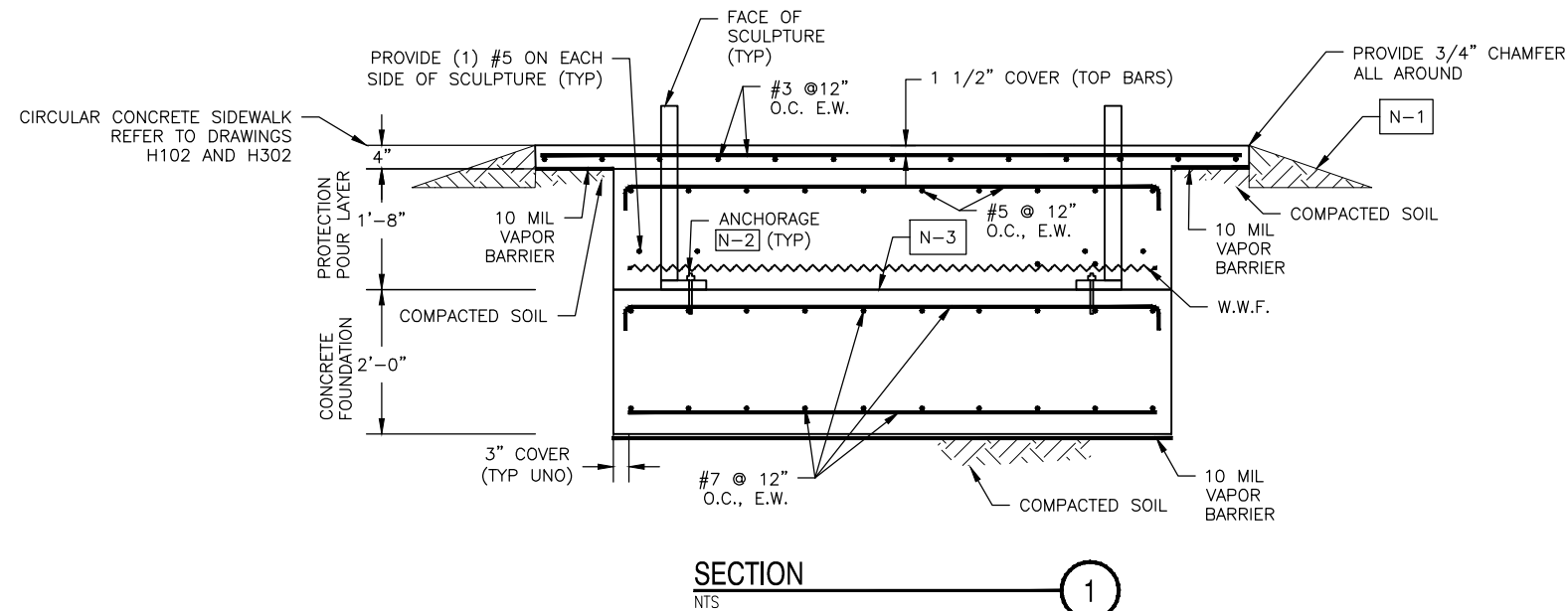
E. MISCELLANEOUS NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ACTIVITIES NECESSARY TO PROCURE, TRANSPORT AND INSTALL TWO SCULPTURE PIECES; THE "AMERICA, AMERICA" SCULPTURE CURRENTLY LOCATED AT THE JOHN F. GERMANY PUBLIC LIBRARY, 900 N. ASHLEY DR., TAMPA, AND THE "LEVITATING NIMBUS" SCULPTURE CURRENTLY LOCATED AT THE TAMPA MUSEUM OF ART, 120 W. GASPARILLA PLAZA, TAMPA AND FOR COORDINATING ALL ACTIVITIES REGARDING THESE RELOCATIONS WITH THE CITY OF TAMPA.
2. THE STRUCTURAL DRAWING(S) SHALL BE COORDINATED WITH THE OTHER DRAWINGS FOR THIS PROJECT. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
3. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION.
4. THE METAL SCULPTURE AND ALL RELATED EQUIPMENT SHALL BE PROTECTED DURING ALL STAGES OF CONSTRUCTION.
5. FOR ALL OTHER ITEMS, REFER TO "STRUCTURAL NOTES" ON DRAWING S001.
6. THE DISTANCE AND GEOMETRIC LOCATION OF THE TWO PORTIONS OF THE SCULPTURE, RELATIVE TO EACH OTHER, SHALL MATCH THE EXISTING PLACEMENT AS MUCH AS POSSIBLE. THE CONTRACTOR SHALL SURVEY THE EXISTING PLACEMENT OF THE ART SCULPTURE PRIOR TO REMOVING IT FROM ITS PRESENT LOCATION. A COPY OF THIS SURVEY SHALL BE SUBMITTED AS PART OF THE "SHOP DRAWING" PROCESS.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT THEIR PROPOSED FINAL ORIENTATION OF THE ART SCULPTURE AND ITS FOUNDATION FOR APPROVAL. THIS SHALL BE PART OF THE "SHOP DRAWING" PROCESS.

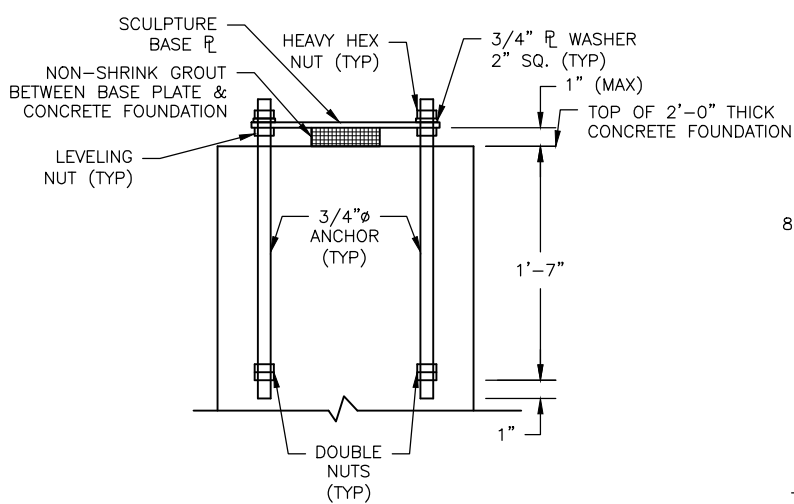
N-1: SLOPE THE SIDEWALK AND GRADE AWAY FROM THE CONCRETE FOUNDATION. REFER TO CIVIL DRAWINGS.

N-2: INSTALL NEW ANCHORS FOR THE METAL SCULPTURE AT THE LOCATION OF THE EXISTING HOLES IN THE BASE PLATE. THE CONTRACTOR SHALL EXPECT TO SLIGHTLY "REAM" ALL OF THE EXISTING HOLES IN ORDER TO INSTALL THE NEW ANCHORS. ANCHORS ARE TO BE HILTI HSL-3 EXPANSION ANCHORS, SIZE M20 WITH A HOLE DEPTH OF 6 1/8 INCHES. THE CONTRACTOR SHALL FOLLOW ALL OF THE INSTALLATION RECOMMENDATIONS OF THE EXPANSION ANCHOR MANUFACTURER. UNLESS SPECIFIED OTHERWISE BY THE MANUFACTURER, WAIT A MINIMUM OF 7 DAYS AFTER CONCRETE PLACEMENT BEFORE INSTALLING EXPANSION ANCHORS. AS AN ALTERNATIVE, THE CONTRACTOR MAY ELECT TO USE CAST-IN-PLACE ANCHOR BOLTS. IF CAST-IN-PLACE ANCHOR BOLTS ARE USED, THEY SHALL BE ASTM F 1554, GRADE 55. REFER TO THE "ALTERNATE ANCHORAGE DETAIL". THE NON-SHRINK GROUT SHALL BE NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI.

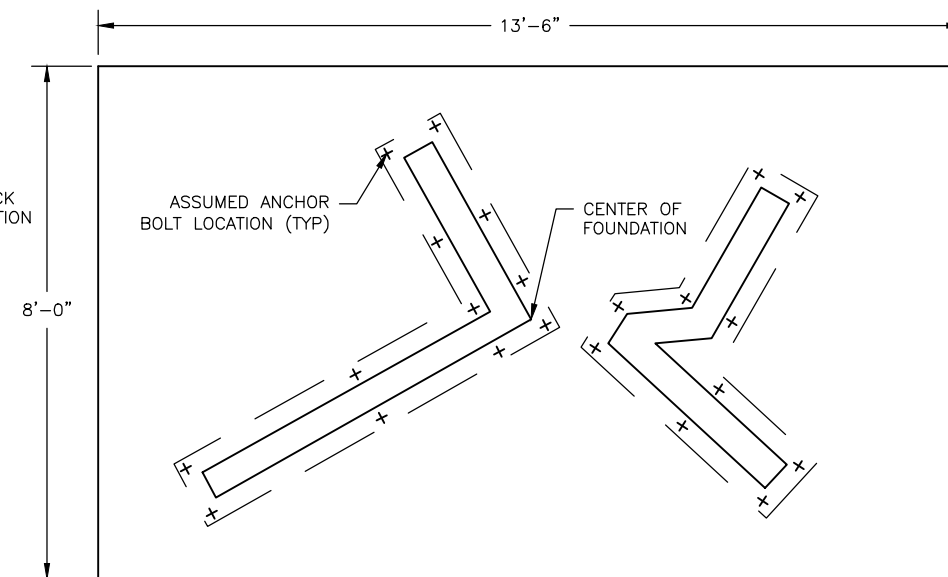
N-3: THE CONCRETE FOUNDATION SHALL BE LEVEL.



NOTE: PROTECTION POUR LAYER NOT SHOWN FOR CLARITY.



ALTERNATE ANCHORAGE DETAIL N-2
NTS



FOUNDATION PLAN N-1 N-3
NTS

Drawing Name: S:\Projects\Tampa Riverwalk - Doyle Carlton Production\DWG\S001 TRWC DEFS_resolving.dwg Last Modified: Jul 02, 2014 - 7:55am Plotted on: Jul 02, 2014 - 7:55am By: jym_center

NO.	BY	DATE	DESCRIPTION

URS
URS Corporation Southern
7550 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 288-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

ART SCULPTURE FOUNDATION (1)

S510
GEORGE PAPADOPOULOS, PE
Registered Professional
55843
FL Reg. No. Sign Date
print date:

NOTES FOR ART SCULPTURE FOUNDATION: LEVITATING NIMBUS

A. BUILDING CODES

1. FLORIDA BUILDING CODE, 2010 EDITION WITH 2012 SUPPLEMENT.
2. ACI 318-08 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.

B. BASIS OF DESIGN

1. BASE OF SCULPTURE ASSUMED TO BE 3'-3" BY 2'-1"
2. WIND LOADS PER ASCE 7-10 FOR AN ULTIMATE DESIGN WIND SPEED (3-SECOND GUST) OF 145 MPH AND NOMINAL DESIGN WIND SPEED OF 112 MPH.
 - a. RISK CATEGORY II
 - b. EXPOSURE "C"
 - c. OPEN STRUCTURE WITH A GUST-EFFECT FACTOR = 1.14 AND FORCE COEFFICIENTS = 1.55
 - d. NOMINAL WIND DESIGN PRESSURE = 23.20 PSF.
3. THE DESIGN WAS BASED ON THE ASSUMPTION THAT THE METAL SCULPTURE HAS BEEN PROPERLY FABRICATED, ERECTED, MAINTAINED, CONNECTIONS ARE IN PLACE, AND THAT THE STRUCTURAL INTEGRITY OF THE SCULPTURE HAS NOT BEEN COMPROMISED DUE TO DAMAGE OR CORROSION OF LOAD CARRYING MEMBERS.

C. CONSTRUCTION MATERIALS

1. CAST-IN-PLACE CONCRETE FOR THE FOUNDATION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF $f'_c = 4000$ PSI AT 28 DAYS.
2. REINFORCING STEEL FOR CONCRETE SHALL BE ASTM A 615, GRADE 60, UNCOATED.
3. STEEL PLATE TO BE ASTM A36.

D. FOUNDATION SOIL

1. NET MAXIMUM ALLOWABLE BEARING CAPACITY OF SOIL = 2000 PSF.
2. REFER TO THE MAY 6, 2014 GEOTECHNICAL REPORT BY TIERRA, INC. (TIERRA PROJECT NO. 6511-13-025)
3. ALL EARTHWORK AND COMPACTION SHALL BE AS DETAILED IN THE "GENERAL RECOMMENDATIONS - SHALLOW SPREAD FOOTING ALTERNATIVE" SECTION OF THE GEOTECHNICAL REPORT. THE GROUNDWATER SHALL BE ASSUMED TO BE AT THE GROUND SURFACE. THE CONTRACTOR SHALL EXPECT TO PERFORM DEWATERING AS PART OF THE WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT THE FLOTATION OF THE SCULPTURE AND FOUNDATION UNTIL CONSTRUCTION IS COMPLETE.

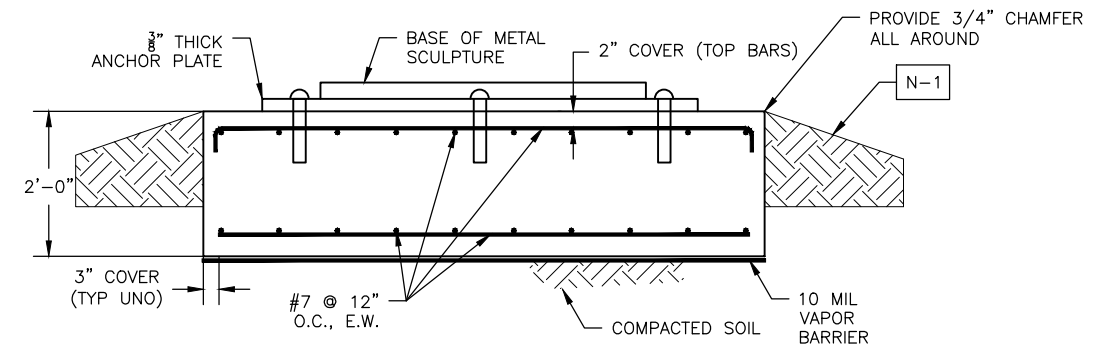
E. MISCELLANEOUS NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ACTIVITIES NECESSARY TO PROCURE, TRANSPORT AND INSTALL TWO SCULPTURE PIECES; THE "AMERICA, AMERICA" SCULPTURE CURRENTLY LOCATED AT THE JOHN F. GERMANY PUBLIC LIBRARY, 900 N. ASHLEY DR., TAMPA, AND THE "LEVITATING NIMBUS" SCULPTURE CURRENTLY LOCATED AT THE TAMPA MUSEUM OF ART, 120 W. GASPARILLA PLAZA, TAMPA AND FOR COORDINATING ALL ACTIVITIES REGARDING THESE RELOCATIONS WITH THE CITY OF TAMPA.
2. THE STRUCTURAL DRAWING(S) SHALL BE COORDINATED WITH THE OTHER DRAWINGS FOR THIS PROJECT. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
3. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION.
4. THE METAL SCULPTURE AND ALL RELATED EQUIPMENT SHALL BE PROTECTED DURING ALL STAGES OF CONSTRUCTION.
5. FOR ALL OTHER ITEMS, REFER TO "STRUCTURAL NOTES" ON DRAWING S001.
6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT THEIR PROPOSED FINAL ORIENTATION OF THE ART SCULPTURE AND ITS FOUNDATION FOR APPROVAL. THIS SHALL BE PART OF THE "SHOP DRAWING" PROCESS.

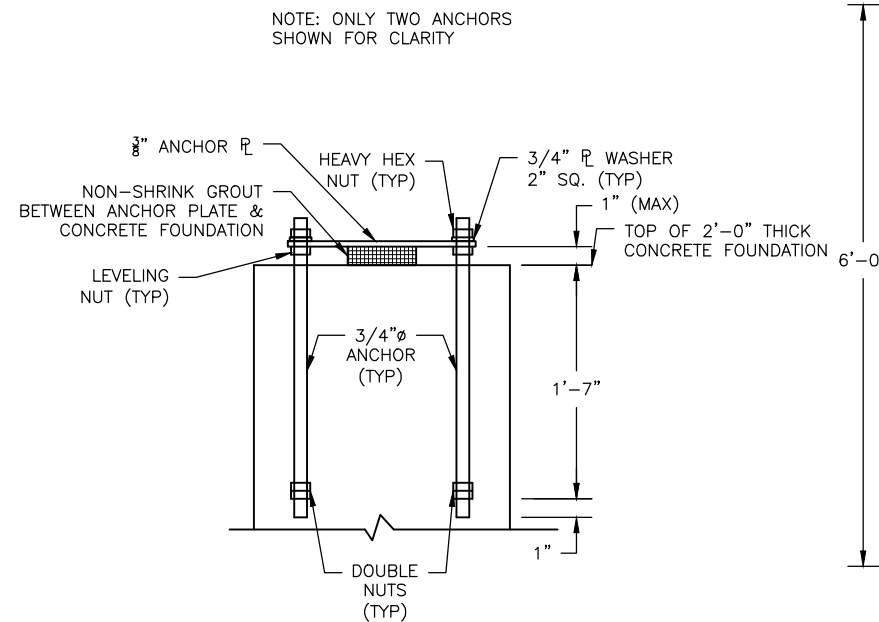
N-1: SLOPE THE SIDEWALK AND GRADE AWAY FROM THE CONCRETE FOUNDATION. REFER TO CIVIL DRAWINGS.

N-2: INSTALL NEW ANCHORS FOR THE SCULPTURE IN THE ANCHOR PLATE. ANCHORS ARE TO BE HILTI HSL-3 EXPANSION ANCHORS, SIZE M20 WITH A HOLE DEPTH OF 6 1/8 INCHES. THE CONTRACTOR SHALL FOLLOW ALL OF THE INSTALLATION RECOMMENDATIONS OF THE EXPANSION ANCHOR MANUFACTURER. UNLESS SPECIFIED OTHERWISE BY THE MANUFACTURER, WAIT A MINIMUM OF 7 DAYS AFTER CONCRETE PLACEMENT BEFORE INSTALLING EXPANSION ANCHORS. AS AN ALTERNATIVE, THE CONTRACTOR MAY ELECT TO USE CAST-IN-PLACE ANCHOR BOLTS. IF CAST-IN-PLACE ANCHOR BOLTS ARE USED, THEY SHALL BE ASTM F 1554, GRADE 55. REFER TO THE "ALTERNATE ANCHORAGE DETAIL". THE NON-SHRINK GROUT SHALL BE NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI.

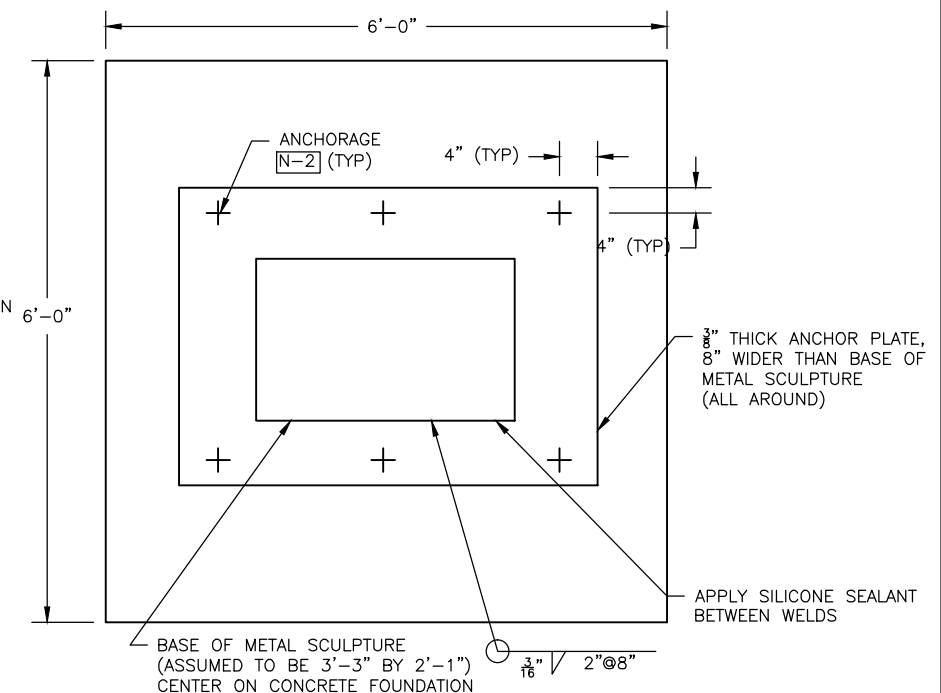
N-3: THE CONCRETE FOUNDATION SHALL BE LEVEL.



SECTION 1
NTS



ALTERNATE ANCHORAGE DETAIL N-2
NTS



FOUNDATION PLAN N-1 N-3
NTS

Drawing Name: S:\Projects\Tampa Riverwalk Doyle Carlton Production\DWG\S001 TRWC DEFS_resolving.dwg Last Modified: Jul 02, 2014 - 7:47am By: lym_center

NO.	BY	DATE	DESCRIPTION

URS
URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 286-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

ART SCULPTURE FOUNDATION (2)

S511
GEORGE PAPADOPOULOS, PE
Registered Professional
55843
FL Reg. No. Sign Date

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RIVERFRONT BULKHEAD

RIVERFRONT URBAN RENEWAL PROJECT FLA. R-2
TAMPA, FLORIDA

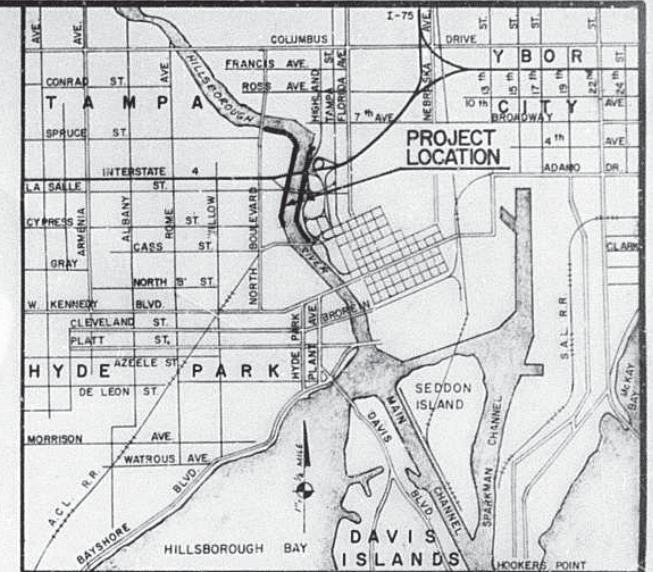
SPONSOR
URBAN RENEWAL AGENCY
TAMPA, FLORIDA

ENGINEERS
DEPARTMENT OF PUBLIC WORKS
TAMPA, FLORIDA

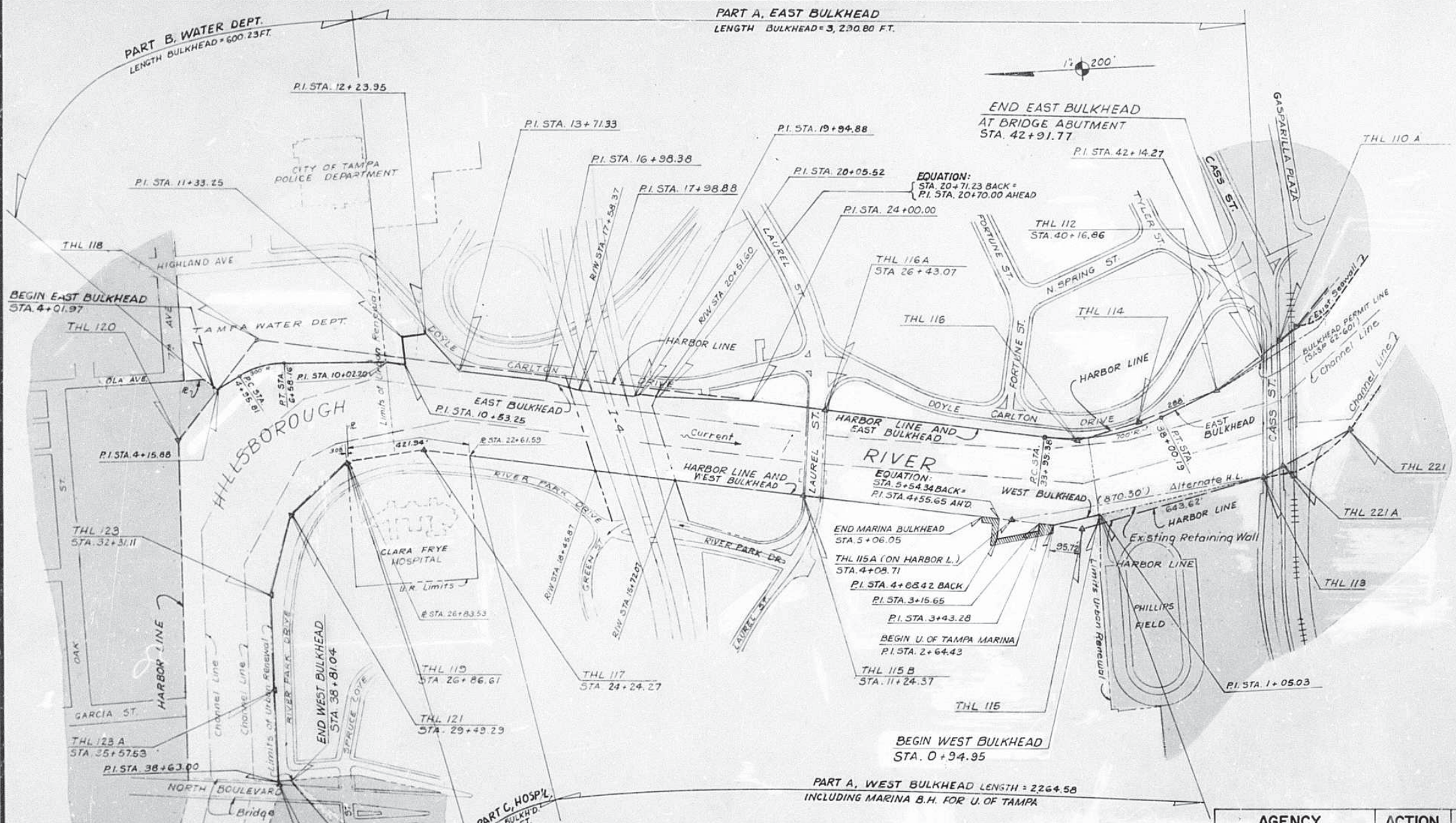
AS-BUILT STATIONS

EAST BULKHEAD						WEST BULKHEAD*					
DESIGN STA.	AS-BUILT STA.	DESIGN STA.	AS-BUILT STA.	DESIGN STA.	AS-BUILT STA.	DESIGN STA.	AS-BUILT STA.	DESIGN STA.	AS-BUILT STA.	DESIGN STA.	AS-BUILT STA.
BEGIN 4+01.97	BEGIN 4+00.12	PI. 16+98.38	PI. 16+97.86	P.T. 38+00.19	P.T. 37+97.17	BEGIN 0+94.95	BEGIN 0+94.04	THL 117 24+24.27	THL 117 24+24.27		
PI. 4+15.88	PI. 4+14.32	PI. 17+98.88	PI. 17+99.34	THL 112 40+16.86	THL 112 40+21.37	PI. 1+05.03	PI. 1+04.94	THL 119 26+86.61	THL 119 26+86.04		
PC. 4+35.81	PC. 4+32.23	PI. 19+94.88	PI. 19+92.88	PI. 42+14.27	PI. 42+19.57	PI. 2+64.43	PI. 2+63.30	THL 121 29+49.29	THL 121 29+49.70		
PT. 6+58.16	PT. 6+54.58	PI. 20+05.52	PI. 20+03.47	END 42+91.77	END 42+94.77	PI. 3+15.65	PI. 3+14.80	THL 123 32+31.11	THL 123 32+31.55		
PI. 10+02.20	PI. 9+98.62	EQUA { 20+71.23 BK+ PI. 20+70.00 AH	PI. 20+69.56			PI. 3+43.28	PI. 3+42.40	THL 123A 35+57.53	THL 123A 35+57.53		
PI. 10+53.25	PI. 10+43.90					PI. 4+88.42 BK	PI. 4+88.90	PI. 38+63.00	PI. 38+66.70		
PI. 11+33.25	PI. 11+30.75	PI. 24+00.00	PI. 24+01.93			EQUA { 5+54.34 BK+ PI. 4+55.65 AH	EQUA { 5+55.90 BK+ 4+57.50 AH	END 38+81.04	END 38+84.5		
PI. 12+23.95	PI. 12+21.25	THL 116A 26+43.07	THL 116A 26+43.07			THL 116B 11+24.37	THL 116B 11+24.37				
PI. 13+71.33	PI. 13+70.15	PC. 33+99.38	PC. 34+01.37								

* AS-BUILT STATIONS ON WEST SIDE BASED ON THL 117 (DATUM POINT) WITH AS-BUILT DISTANCES FROM THIS POINT. NO SURVEY HAS BEEN MADE TO FIELD CHECK ACTUAL ALIGNMENT OF WEST BULKHEAD.



LOCATION MAP



LAYOUT PLAN

SUMMARY OF BULKHEAD LENGTHS

PART A: EAST BULKHEAD 3,290.80 FT.	TOTAL PART A	3,290.80'
WEST BULKHEAD *3,462.09 FT.	TOTAL PART A	6,752.89'
PART B: WATER DEPT.	TOTAL PART B	600.23'
PART C: HOSPITAL	TOTAL PART C	421.94'
* INCLUDES PART D: MARINA - U OF TAMPA (339.58' TOTAL PART D)		
OVERALL TOTAL		7,775.06'

- NOTES:**
- CONSTRUCTION WITHIN URBAN RENEWAL AREA:
 - PART A: BULKHEAD ON EAST SIDE OF RIVER.
 - PART B: BULKHEAD ON WEST SIDE OF RIVER.
 - PART D: MARINA BULKHEAD - WEST - U. OF TAMPA.
 CONSTRUCTION OUTSIDE OF URBAN RENEWAL AREA:
 - PART B: BULKHEAD AT TAMPA WATER DEPT.
 - PART C: BULKHEAD AT CLARA FRYE HOSPITAL.
 - LOCATION OF BULKHEAD BEYOND HARBOR LINE AUTHORIZED BY CORPS OF ENGINEERS, S.A. U.S.P. PERMITS (66-251)
 - ALL STREET AND SIDEWALK CONSTRUCTION SHOWN ON PLANS WILL BE BY OTHERS.
 - STORM SEWERS CONSTRUCTED BUT NOT CONNECTING TO EXISTING STORM SEWER PIPES OR DRAINAGE STRUCTURES SHALL BE PLUGGED AT THE UPPER END UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - ELEVATIONS ARE BASED ON CITY OF TAMPA DATUM: MEAN SEA LEVEL + 0.00 TIDE DATA (FROM FLA. S.R.D.): MEAN HIGH WATER = +1.15 MEAN LOW WATER = -0.65
 - FOR AIRSPACE AND RIGHT OF WAY AT INTERSTATE 4 SEE DEPT. PUBLIC WORKS DRAWING FILE NO. C-25-1.
 - CONTRACTOR MAY USE AREAS ON EAST SIDE OF THE RIVER WEST OF DOYLE CARLTON DRIVE IN URBAN RENEWAL AREA FOR STORAGE OF MATERIAL AND MANUFACTURE OF SHEET PILES. SIMILAR AREAS WILL BE DESIGNATED ON THE WEST SIDE OF THE RIVER.
- ALL ALIGNMENT SHOWN IS DESIGN. FOR AS-BUILT STATIONS SEE CHART ABOVE. FOR AS-BUILT ALIGNMENT SEE SHEET 2-A.

REVISION	DATE	DESCRIPTION	BY
3	10-30-69	AS-BUILT STATIONS & NOTE #8	J.D.
2	1-20-69	NAME CHANGED - CONSTANT TO LAUREL ST.	J.D.
1	1-2-69	ADDN. MARINA BULKHEAD WEST SIDE	J.D.

LOCATION MAP AND LAYOUT PLAN

AGENCY	ACTION	SIGNATURE	DATE
Dept. of Public Works	Approved	<i>Carague Jumps</i>	12-15-67
Bur. of San. Sewers	Reviewed	<i>Est. Anderson</i>	12-14-67
Water Dept.	Reviewed	<i>Frank R. ...</i>	12-15-67
Urban Renewal Agency	Reviewed	<i>Thomas G. ...</i>	12-15-67
County Planning Comm.	Reviewed	<i>Walter ...</i>	12-15-67
Co. Hosp. & Welfare Board	Reviewed	<i>Clarence ...</i>	12/14/67

PUBLIC WORKS DEPARTMENT
CITY OF TAMPA, FLORIDA

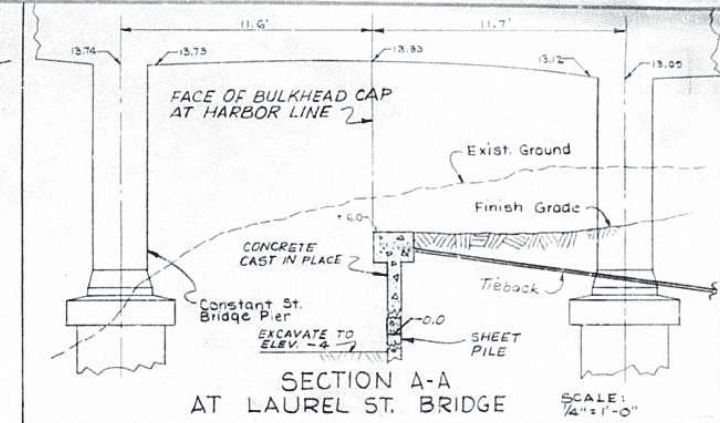
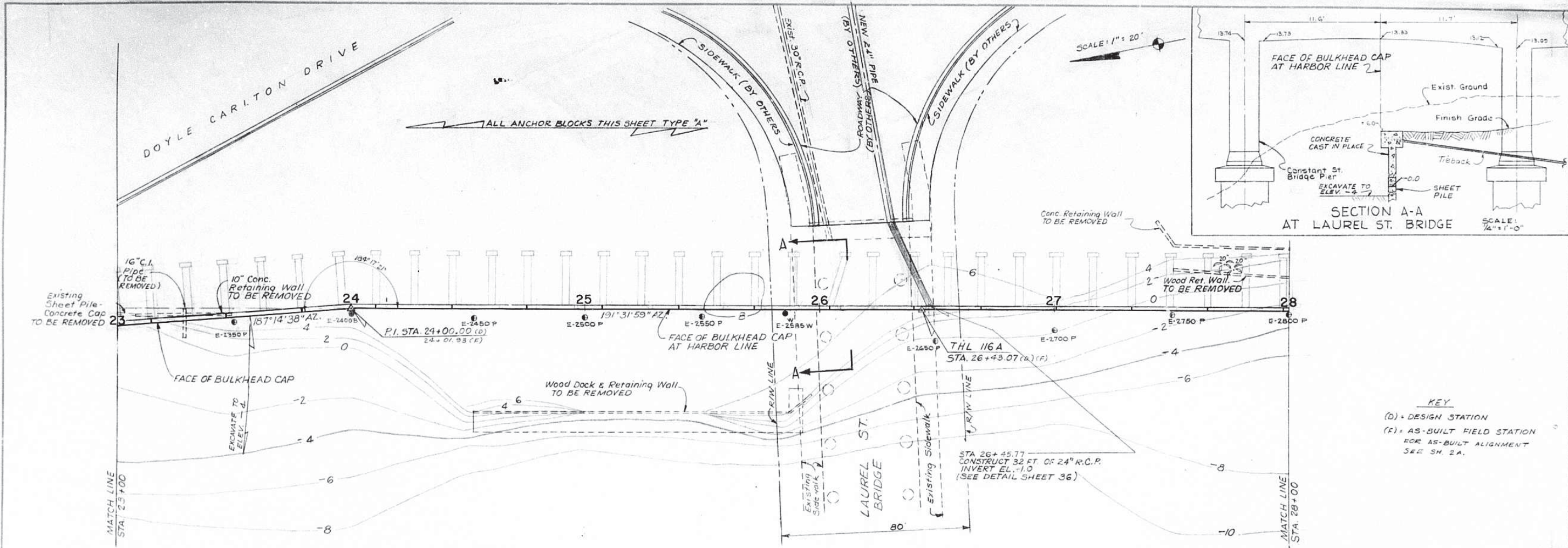
URBAN RENEWAL AGENCY
OF THE CITY OF TAMPA, FLORIDA

RIVERFRONT BULKHEAD

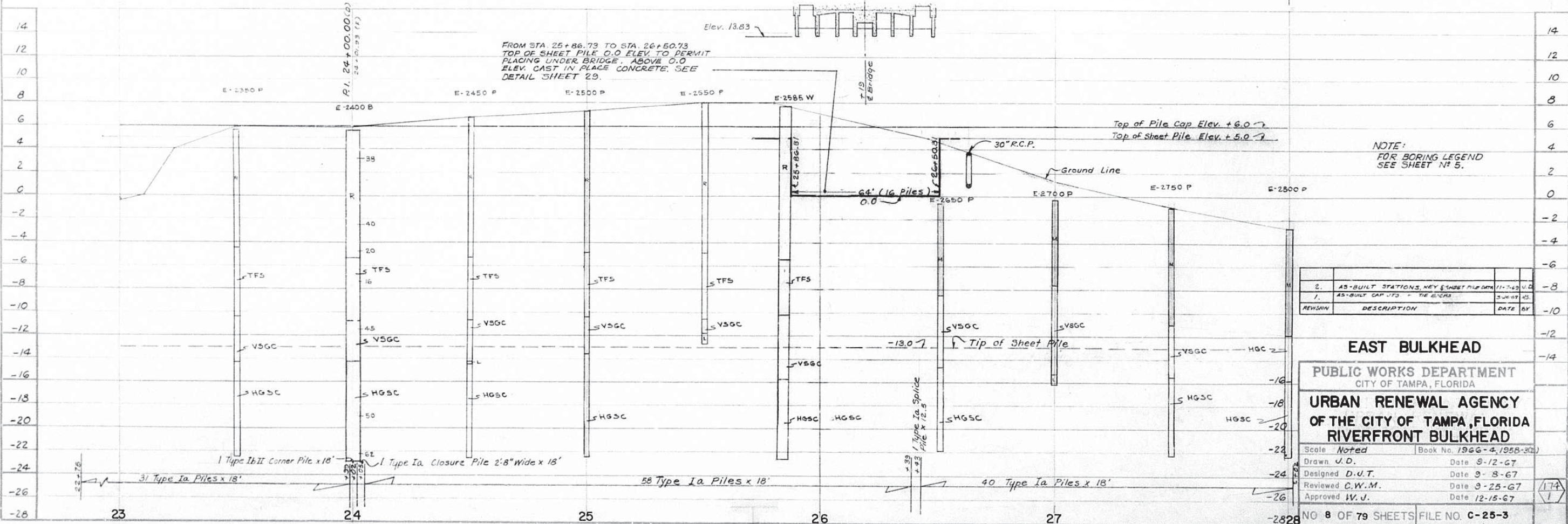
Scale NOTED Book No.

Drawn J.D. Date 11-20-67
 Designed J.T. Date 11-18-67
 Reviewed C.W.M. Date 11-25-67
 Approved J.V. Date 12-15-67

NO 2 OF 79 SHEETS FILE NO C-25-3



KEY
 (D) = DESIGN STATION
 (F) = AS-BUILT FIELD STATION
 FOR AS-BUILT ALIGNMENT
 SEE SH. 2A.



NOTE:
 FOR BORING LEGEND
 SEE SHEET NO. 5.

REVISION	DESCRIPTION	DATE	BY
2.	AS-BUILT STATIONS, KEY & SHEET PILE DATA	11-7-63	U.D.
1.	AS-BUILT CAP JOINTS - TIE BLOCKS	3-26-67	MS

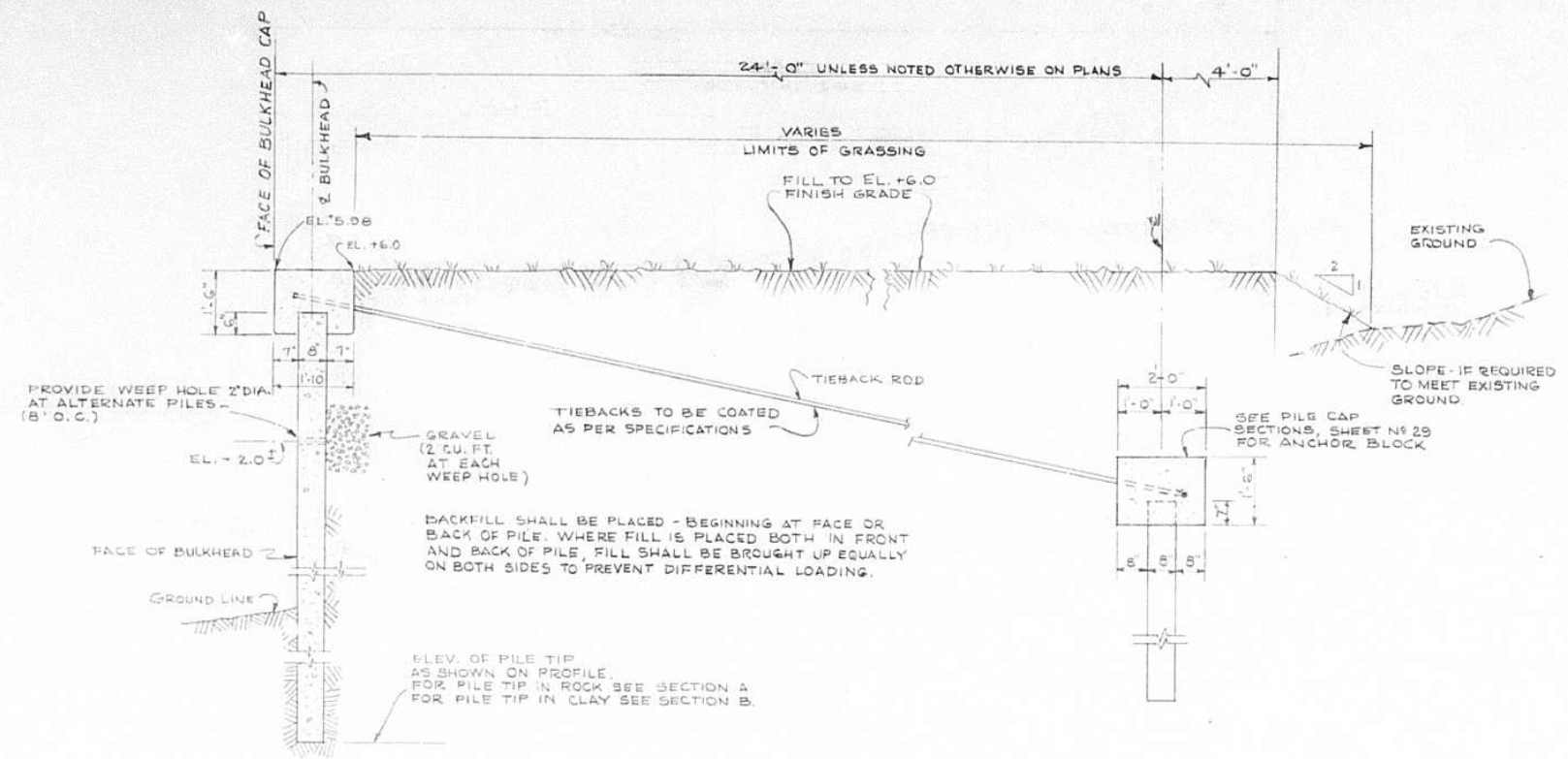
EAST BULKHEAD

PUBLIC WORKS DEPARTMENT
 CITY OF TAMPA, FLORIDA

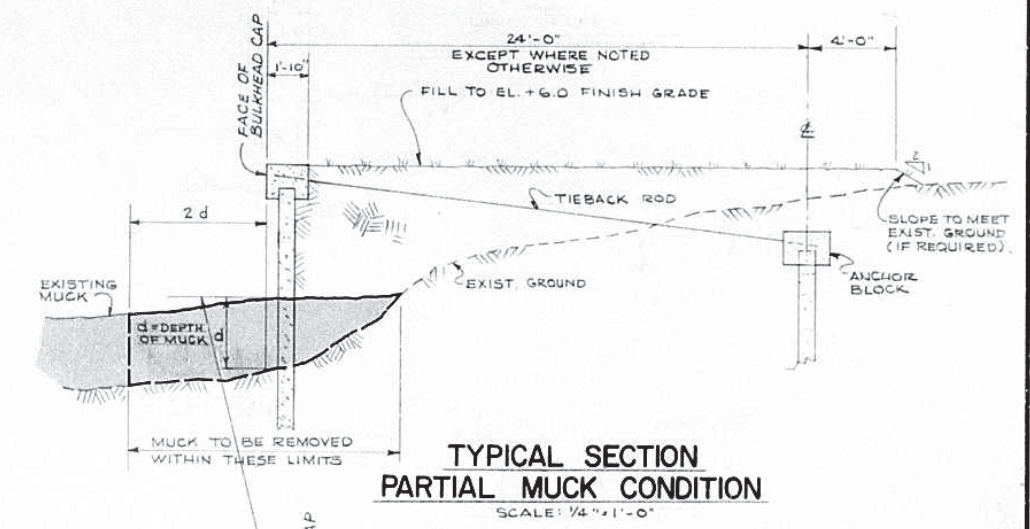
**URBAN RENEWAL AGENCY
 OF THE CITY OF TAMPA, FLORIDA
 RIVERFRONT BULKHEAD**

Scale Noted	Book No. 1966-4, 1958-32)
Drawn U.D.	Date 8-12-67
Designed D.U.T.	Date 8-8-67
Reviewed C.W.M.	Date 9-25-67
Approved W.J.	Date 12-15-67

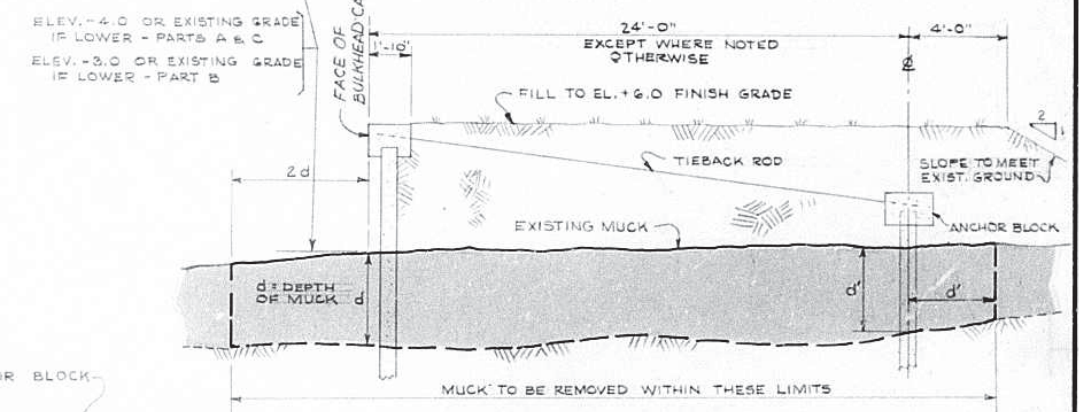
NO. 8 OF 79 SHEETS FILE NO. C-25-3



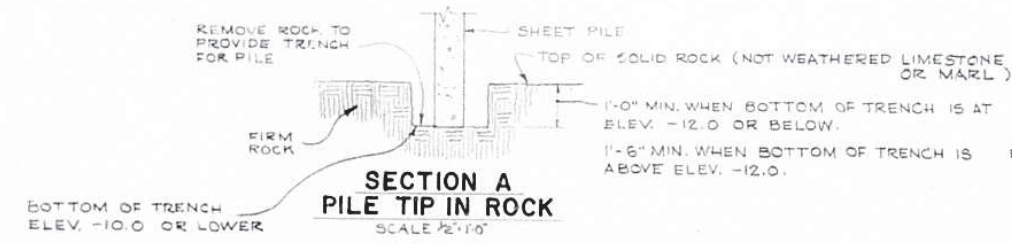
TYPICAL SECTION BULKHEAD AND TIEBACK
SCALE: 1/2" = 1'-0"



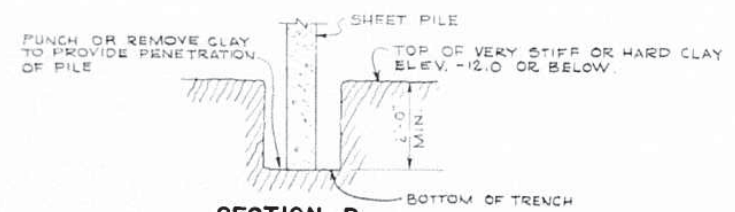
TYPICAL SECTION PARTIAL MUCK CONDITION
SCALE: 1/4" = 1'-0"



TYPICAL SECTION FULL MUCK CONDITION
SCALE: 1/4" = 1'-0"

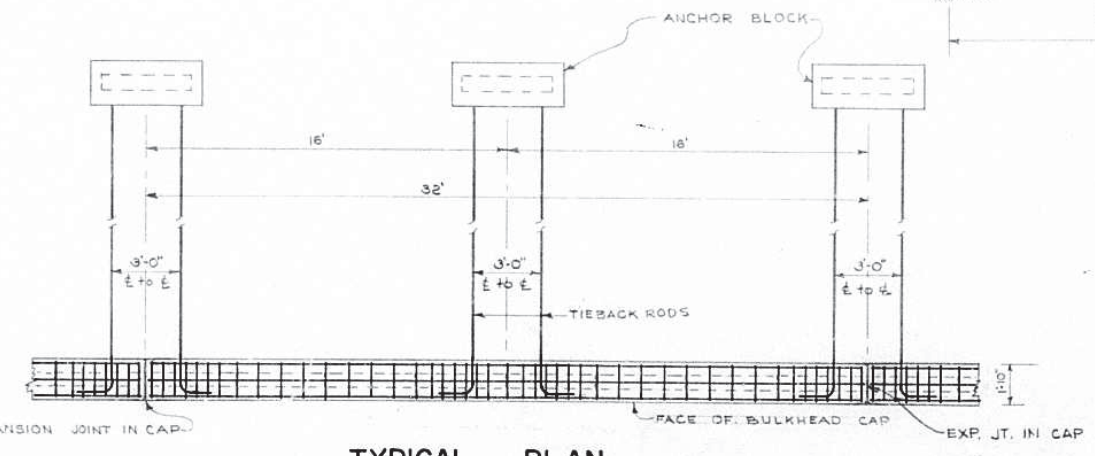


SECTION A PILE TIP IN ROCK
SCALE: 1/2" = 1'-0"

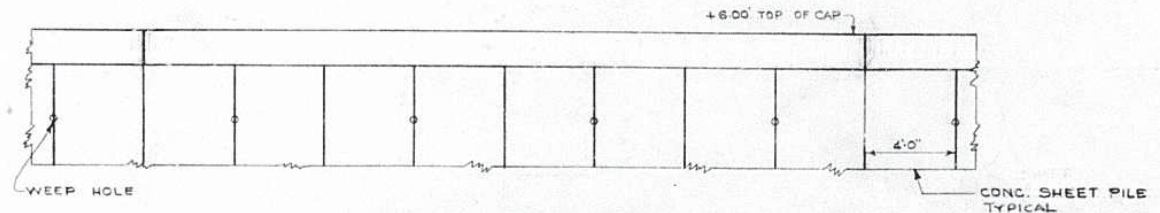


SECTION B PILE TIP IN VERY STIFF OR HARD CLAY

NOTE:
TRENCHING IN VERY STIFF OR HARD CLAY WILL BE PERMITTED TO SEAT PILING WHEN CONDITIONS ARE SUCH THAT LATERAL STABILITY IS ASSURED AND APPROVAL OF ENGINEER IS OBTAINED.



TYPICAL PLAN BULKHEAD & TIEBACKS
SCALE: 1/4" = 1'-0"



TYPICAL ELEVATION FACE OF BULKHEAD
SCALE: 1/4" = 1'-0"

TYPICAL BULKHEAD SECTIONS

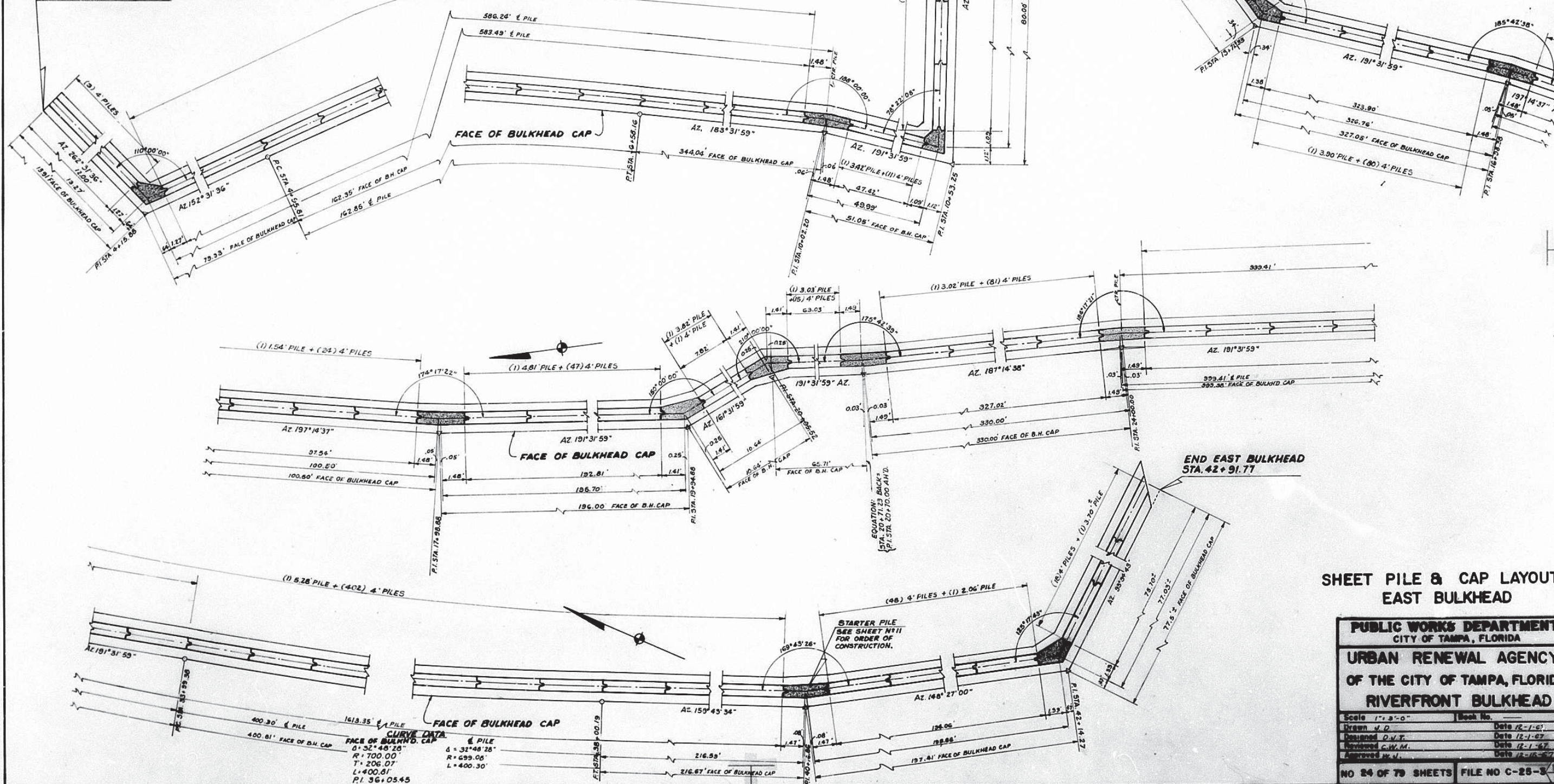
PUBLIC WORKS DEPARTMENT CITY OF TAMPA, FLORIDA	
URBAN RENEWAL AGENCY OF THE CITY OF TAMPA, FLORIDA	
RIVERFRONT BULKHEAD	
Scale NOTED	Book No.
Drawn RE.H.	Date 9-12-67
Designed D.V.T.	Date 8-12-67
Reviewed C.W.M.	Date 8-15-67
Approved W.J.	Date 12-15-67

NO 26 OF 79 SHEETS FILE NO C-25-3

CURVE DATA

FACE OF BULKHEAD CAP	PILE
$\Delta = 31^{\circ}00'23"$	$\Delta = 31^{\circ}00'23"$
$R = 300'$	$R = 300.92'$
$T = 83.22'$	$L = 162.85'$
$P.I. = 5+78.03$	

BEGIN EAST BULKHEAD
STA. 4+01.97



**SHEET PILE & CAP LAYOUT
EAST BULKHEAD**

PUBLIC WORKS DEPARTMENT
CITY OF TAMPA, FLORIDA

URBAN RENEWAL AGENCY
OF THE CITY OF TAMPA, FLORIDA
RIVERFRONT BULKHEAD

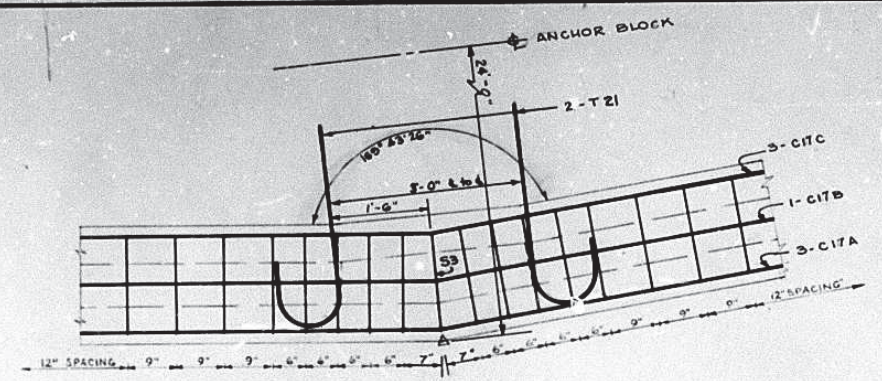
Scale 1" = 3'-0"	Book No.
Drawn H.D.	Date 12-1-67
Designed D.V.T.	Date 12-1-67
Reviewed C.W.M.	Date 12-1-67
Approved H.V.	Date 12-15-67

NO 24 OF 79 SHEETS FILE NO C-25-3174

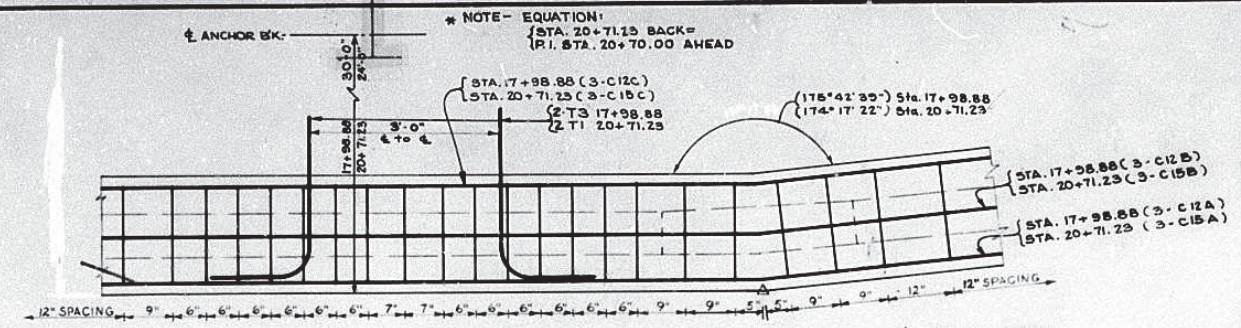
TIEBACK ROD SCHEDULE

MARK	SIZE	LENGTH	NO. REQ'D.			"y"	TOTAL NO. REQ'D.
			PART "A"	PART "B"	PART "C"		
T1	#9	27'-8"	500	54	50	24'-11"	684
T2	#10	27'-11 1/2"	172	18		24'-10 1/2"	190
T3	#9	33'-6 1/2"	24			30'-3 1/2"	24
T5	#9	22'-10"	6			20'-1"	6
T6	#9	36'-9 1/2"	12			34'-0 1/2"	12
T7	#9	25'-4"		1		22'-8"	1
T8	#9	26'-11 1/2"		1		24'-4"	1
T9	#10	27'-1 1/2"		1		24'-2 1/2"	1
T10	#10	28'-9"		1		25'-10"	1
T11	#10	20'-5 1/2"		1		17'-6 1/2"	1
T12	#10	21'-7"		1		18'-8"	1
T13	#10	29'-6"		1		26'-7"	1
T14	#10	29'-7 1/2"		1		26'-8 1/2"	1
T15	#10	23'-5"		1		20'-6"	1
T16	#10	21'-8 1/2"		1		18'-3 1/2"	1
T17	#9	23'-0 1/2"		1		20'-3 1/2"	1
T18	#9	21'-10 1/2"		1		19'-11 1/2"	1
T19	#9	22'-5"	2			20'-1 1/2"	2
T21	#9	27'-5 1/2"	6		2	24'-10"	8
T22	#10	27'-9 1/2"	2			24'-10 1/2"	2
T23	#9	24'-10 1/2"		1		22'-3"	1
T24	#9	26'-1"		1		23'-5 1/2"	1
T25	#9	26'-0 1/2"		1		23'-5"	1
T26	#9	24'-10 1/2"		1		22'-5"	1

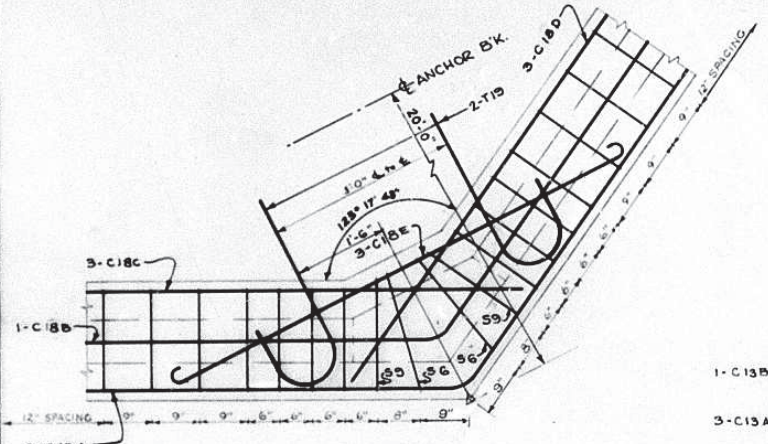
SEE BENDING DIAGRAM BELOW.



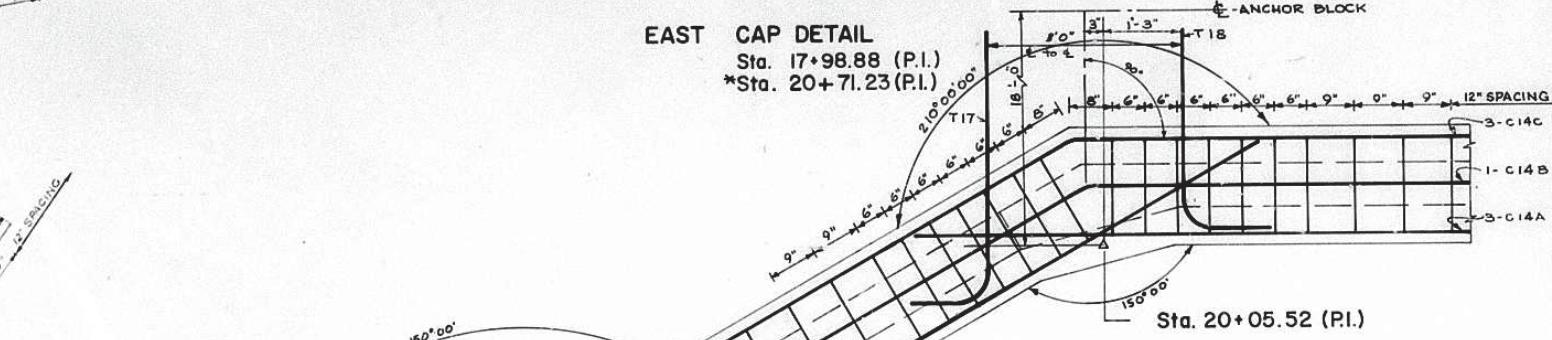
EAST CAP DETAIL
Sta. 40+16.86 (P.I.)



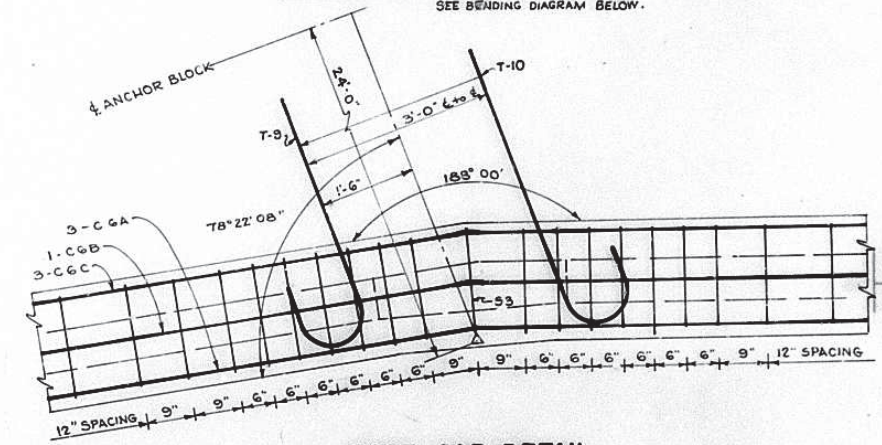
EAST CAP DETAIL
Sta. 17+98.88 (P.I.)
*Sta. 20+71.23 (P.I.)



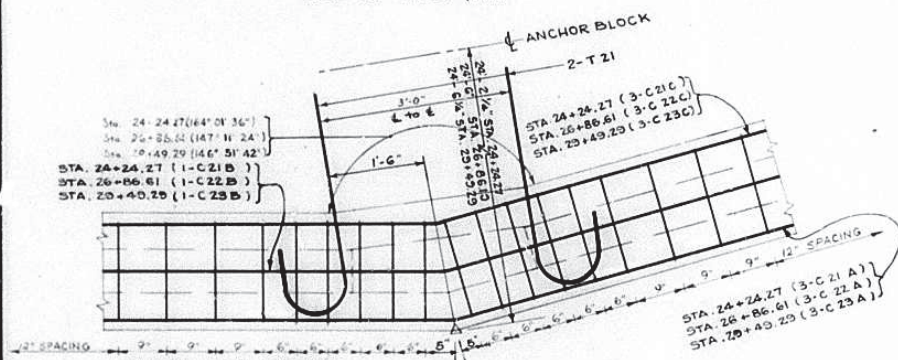
EAST CAP DETAIL
Sta. 42+14.27 (P.I.)



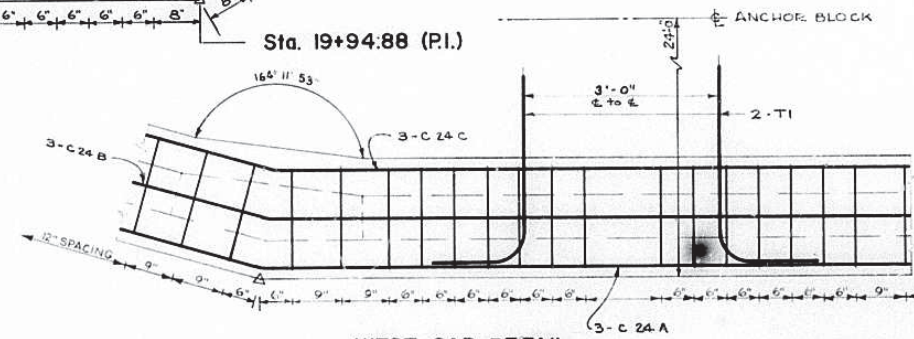
EAST CAP DETAIL
Sta. 19+94.88 (P.I.)
Sta. 20+05.52 (P.I.)



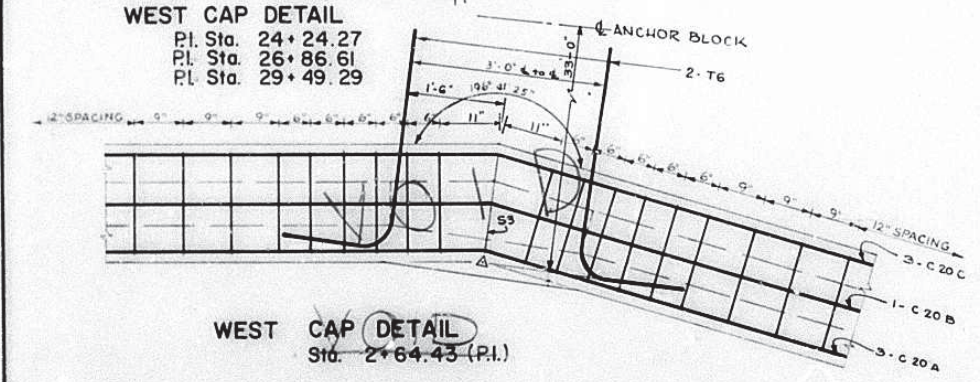
EAST CAP DETAIL
Sta. 10+02.20 (P.I.)



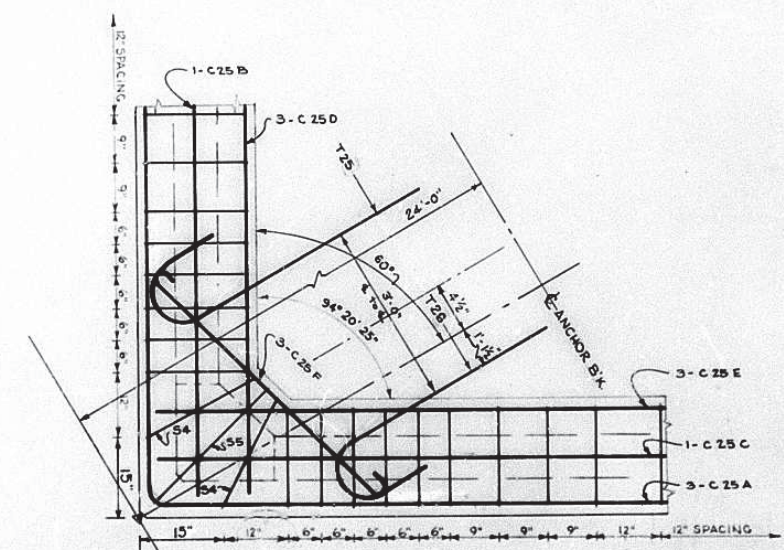
WEST CAP DETAIL
P.I. Sta. 24+24.27
P.I. Sta. 26+86.61
P.I. Sta. 29+49.29



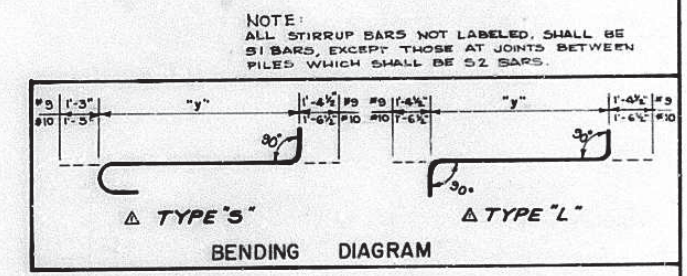
WEST CAP DETAIL
Sta. 32+31.11 (P.I.)



WEST CAP DETAIL
Sta. 2+64.43 (P.I.)



WEST CAP DETAIL
Sta. 38+63.00 (P.I.)



NOTE: ALL STIRRUP BARS NOT LABELED, SHALL BE #1 BARS, EXCEPT THOSE AT JOINTS BETWEEN PILES WHICH SHALL BE #2 BARS.

PILE CAP DETAILS

PUBLIC WORKS DEPARTMENT
CITY OF TAMPA, FLORIDA

URBAN RENEWAL AGENCY
OF THE CITY OF TAMPA, FLORIDA

RIVERFRONT BULKHEAD

Scale 3/8" = 1'-0" Book No. _____
 Drawn P.E.H. C.J.D. Date 9-8-67
 Designed D.J.T. Date 9-4-67
 Reviewed C.W.M. Date 9-15-67
 Approved W.U. Date 7-15-67

REV.	DATE	DESCRIPTION	BY
1	12-16-68	DETAIL VOIDED FOR MARINA, ADD BEND DIAG.	J.D.

NO 27 OF 79 SHEETS FILE NO C-25-3

Drawing Name: T:\Tampa Riverwalk Doyle Carlton Drawings\E001-LEGEND & NOTE.dwg Last Modified: Nov 03, 2014 - 2:29pm by ahshazad_ahmed

ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	POWER SERVICE AND LOAD CENTER (TO BE MODIFIED)
	GROUND CONNECTION
	COMMUNICATION PULL BOX, 12"x12"x12", ANSI TIER 15, QUAZITE OR APPROVED EQUAL, LABEL "CCTV FIBER OPTIC"
	ELECTRICAL PULL BOX, 12"x12"x12", ANSI TIER 15, QUAZITE OR APPROVED EQUAL, LABEL "LIGHTING"
	CONDUIT RACEWAY SAWCUT OR DIRECTIONAL BORE
	1.5" SCH.40 CONDUIT(S) UNDERGROUND UON.
	1" RGS CONDUIT(S) SURFACE MOUNTED UON.
	1" SCH.40 CONDUIT(S) UNDERGROUND UON.
	EXISTING UNDERDRAIN
	EXISTING UNDERGROUND LIGHTING
	EXISTING UNDERGROUND WATER
	DEVICE OR EQUIPMENT AS NOTED
	REFER TO DRAWING REFERENCE NOTES
	LIGHT FIXTURE POLE MOUNTED - SINGLE ARM
	LIGHT FIXTURE POLE MOUNTED - DOUBLE ARM
	LIGHT FIXTURE POLE MOUNTED - DOUBLE ARM, ONE ARM LONGER THAN THE OTHER
	LIGHT FIXTURE SURFACE MOUNT (UNDERDECK)
	IN-GRADE LIGHT FIXTURE (FOR AMERICA-AMERICA SCULPTURE LIGHTING)
	FLOOD LIGHT FIXTURE (FOR SCULPTURE AND PALM TREE UP-LIGHTING)
	LIGHT FIXTURE (FOR ART LIGHTING)
	EX. LANDSCAPE LIGHT FIXTURE (TO BE RELOCATED)
	EX. STREET LIGHT POLE
	EXISTING LANDSCAPE LIGHT FIXTURE (TO REMAIN)

ABBREVIATIONS

A	AMPS
AFG	ABOVE FINISH GRADE
C	CONDUIT
CB	CIRCUIT BREAKER
COMM.	COMMUNICATION
DN	DOWN
DWG	DRAWING
EX.	EXISTING
FT-X	FIXTURE TYPE "X"
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
KVA	KILOVOLTAMP
KW	KILOWATT
LTG	LIGHTING
MIN	MINIMUM
MNT.	MOUNTED
N.T.S.	NOT TO SCALE
OH	OVERHEAD
REC	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
SCH	SCHEDULE
SPD	SURGE PROTECTION DEVICE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
WP	WEATHERPROOF (NEMA 3R)

GENERAL NOTES

- ELECTRICAL INSTALLATIONS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NFPA 70), THE NATIONAL ELECTRICAL SAFETY CODE (ANSI C2) AND ALL LOCAL LAWS, CODES AND STANDARDS CURRENTLY ENFORCED BY AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL ASCERTAIN THAT ALL LIGHTING SYSTEM COMPONENTS FURNISHED BY HIM ARE COMPATIBLE IN ALL RESPECTS WITH EACH OTHER AND THE REMAINDER OF THE NEW/EXISTING SYSTEM.
- IN CASE THE CONTRACTOR SELECTS TO FURNISH AND INSTALL ANY LIGHTING EQUIPMENT REQUIRING ADDITIONAL WIRING, TRANSFORMERS, ADAPTERS, MOUNTINGS, ETC. TO THOSE SHOWN ON THE DRAWINGS AND/OR LISTED IN THE SPECIFICATIONS, ANY COST FOR THESE ITEMS SHALL BE INCIDENTAL TO THE EQUIPMENT COST.
- ANY AND ALL INSTRUCTIONS FROM THE ENGINEER TO THE CONTRACTOR REGARDING CHANGES IN OR DEVIATIONS FROM THE PLANS AND SPECIFICATIONS SHALL BE IN WRITING. THE CONTRACTOR SHALL NOT ACCEPT ANY VERBAL INSTRUCTIONS FROM THE ENGINEER REGARDING ANY CHANGES FROM THE PLANS AND SPECIFICATIONS.
- COLOR CODE ALL PHASE WIRING BY THE USE OF COLORED WIRE INSULATION AND/OR COLORED TAPE. WHERE TAPE IS USED, THE WIRE INSULATION SHALL BE BLACK. BLACK AND RED SHALL BE USED FOR SINGLE-PHASE, THREE WIRE SYSTEMS. NEUTRAL CONDUCTORS, SIZE NO. 6 AWG OR SMALLER, SHALL BE IDENTIFIED BY A CONTINUOUS WHITE OR NEUTRAL GRAY OUTER FINISH ALONG ITS ENTIRE LENGTH. NEUTRAL CONDUCTORS LARGER THAN NO. 6 AWG SHALL BE IDENTIFIED EITHER BY A CONTINUOUS WHITE OR NATURAL GRAY OUTER FINISH ALONG ITS ENTIRE LENGTH OR BY THE USE OF WHITE TAPE AT ITS TERMINATIONS AND INSIDE ACCESSIBLE WIREWAYS.
- ALL BRANCH CIRCUIT CONDUCTORS CONNECTED TO A PARTICULAR PHASE SHALL BE IDENTIFIED WITH THE SAME COLOR. THE COLOR CODING SHALL BE EXTENDED TO THE POINT OF UTILIZATION.
- IN CONTROL WIRING, THE SAME COLOR SHALL BE USED THROUGHOUT THE SYSTEM FOR THE SAME FUNCTION.
- ALL POWER AND CONTROL CIRCUIT CONDUCTORS SHALL BE COPPER; ALUMINUM SHALL NOT BE ACCEPTED. THIS INCLUDES WIRE, CABLE, BUSSES, TERMINALS, SWITCH/PANEL COMPONENTS, ETC.
- CONTROL AND POWER CIRCUIT CONDUCTORS SHALL BE INSTALLED IN SEPARATE CONDUITS.
- NEATLY LACE WIRING IN DISTRIBUTION PANELS, WIREWAYS, SWITCHES AND JUNCTION/PULL BOXES.
- EQUIPMENT CABINETS SHALL NOT BE USED AS PULL/JUNCTION BOXES. ONLY WIRING TERMINATING AT THE EQUIPMENT SHALL BE BROUGHT INTO THESE ENCLOSURES.
- SPLICES AND JUNCTION POINTS SHALL BE PERMITTED ONLY IN JUNCTION BOXES, DUCTS EQUIPPED WITH REMOVABLE COVERS AND AT EASILY ACCESSIBLE LOCATIONS.
- CIRCUIT BREAKERS IN POWER DISTRIBUTION PANEL(S) SHALL BE THERMAL-MAGNETIC, MOLDED CASE, PERMANENT TRIP WITH KAIC RATING AS SHOWN.
- PVC CONDUIT SHALL BE USED WHEN INSTALLING EQUIPMENT UNLESS OTHERWISE SPECIFIED. THE MINIMUM TRADE SIZE SHALL BE 3/4 INCH.
- ALL EXPOSED CONDUITS SHALL BE RIGID STEEL PVC COATED AND RUN PARALLEL TO OR AT RIGHT ANGLES WITH THE LINES OF STRUCTURE.
- ALL STEEL CONDUITS, FITTINGS, NUTS, BOLTS, ETC. SHALL BE GALVANIZED.
- BOTH ENDS OF EACH CONTROL CONDUCTOR SHALL BE TERMINATED AT A TERMINAL BLOCK. THE TERMINAL BLOCKS SHALL BE OF PROPER RATING AND SIZE FOR THE FUNCTION INTENDED AND THEY SHALL BE LOCATED IN EQUIPMENT ENCLOSURES OR SPECIAL TERMINAL CABINETS.
- ALL CONTROL CONDUCTOR TERMINATIONS SHALL BE OF THE OPEN-EYE CONNECTOR/SCREW TYPE. SOLDERED, CLOSED-EYE TERMINATIONS, OR TERMINATIONS WITHOUT CONNECTORS, ARE NOT ACCEPTABLE.
- IN TERMINAL BLOCK CABINETS, THE MINIMUM SPACING BETWEEN PARALLEL TERMINAL BLOCKS SHALL BE SIX INCHES. THE MINIMUM SPACING BETWEEN TERMINAL BLOCK SIDES/ENDS AND CABINET SIDES/BOTTOM/TOP SHALL BE FIVE INCHES. THE MINIMUM SPACING WILL BE INCREASED AS REQUIRED BY THE NUMBER OF CONDUCTORS. ADDITIONAL SPACING SHALL BE PROVIDED AT CONDUCTOR ENTRANCES.
- BOTH ENDS OF ALL CONTROL CONDUCTORS SHALL BE IDENTIFIED AS TO THE CIRCUIT, TERMINAL BLOCK AND TERMINAL NUMBER.
- PROVIDE ALL ELECTRICAL MATERIALS, TOOLS AND TRANSPORTATION, AND PERFORM ALL SERVICES AND LABOR REQUIRED TO COMPLETE ELECTRICAL INSTALLATIONS
- PROVIDE ALL FITTINGS, SUPPORTS, TRIMS, RELATED COMPONENTS AND APPURTENANCES NECESSARY FOR COMPLETE, OPERATIONAL AND FULLY FUNCTIONAL ELECTRICAL INSTALLATIONS.
- COMPLY WITH THE GENERAL REQUIREMENTS OF THE CONTRACT GOVERNING SUBMITTALS. CLEARLY IDENTIFY ALL SUBMITTALS WITH PROJECT NAME AND LOCATION, PRODUCT MANUFACTURER'S NAME, PRODUCT CATALOG NUMBER, COMPANY NAME (CONTRACTOR), PROJECT MANAGER (CONTRACTOR) AND DATE REVIEWED. REVIEW AND APPROVE ALL SUBMITTALS PRIOR TO SUBMITTING TO THE ENGINEER. SUBMITTALS NOT SO MARKED AND APPROVED WILL BE REJECTED AND RESUBMITTAL REQUIRED. SUBMIT PRODUCT DATA CONSISTING OF CATALOG CUT SHEETS, BROCHURES, CIRCULARS, SPECIFICATIONS, PERFORMANCE DATA, INSTALLATION INSTRUCTIONS, CONTROL AND WIRING DIAGRAMS, DRAWINGS AND PRINTED INFORMATION IN SUFFICIENT DETAIL TO VERIFY COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT. CLEARLY MARK PRODUCT DATA TO IDENTIFY PERTINENT PRODUCTS, MODELS, PART NUMBERS, FEATURES AND OPTIONS BEING PROPOSED. IDENTIFY PERFORMANCE CHARACTERISTICS, CAPACITIES, DIMENSIONS AND REQUIRED CLEARANCES.
- PROVIDE ALL ELECTRICAL MATERIALS, TOOLS AND TRANSPORTATION, AND PERFORM ALL SERVICES AND LABOR REQUIRED TO COMPLETE ELECTRICAL INSTALLATIONS.
- ELECTRICAL MATERIALS SHALL BE NEW AND SHALL BE UL (UNDERWRITER'S, INC.) LISTED AND LABELED AS CONFORMING TO ITS STANDARDS, WHERE SUCH A STANDARD HAS BEEN ESTABLISHED BY UL FOR THE PARTICULAR TYPE OF ELECTRICAL MATERIAL IN QUESTION. INSTALL ELECTRICAL MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS USING THE BEST METHODS KNOWN TO THE TRADE.
- PROVIDE TWO (2) SPARE LIGHT FIXTURES (TYPE USED FOR LIGHT POLE MOUNTING) TO THE OWNER AS PART OF THIS PROJECT.
- AFTER TWO WEEKS OF COMPLETE INSTALLATION, CONTACT AND COORDINATE WITH THE CITY OF TAMPA ENGINEER FOR THE ORIENTATION, TILT, VISOR POSITIONS AND OTHER ADJUSTMENTS OF THE NEW LIGHTING SYSTEM AND FIXTURES, PROVIDED AS PART OF THIS PROJECT.
- ALL PROPOSED UNDERGROUND CONDUITS SHALL BE MIN. 1.5" OR AS SHOWN IN THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO INVESTIGATE THE EXISTING UTILITIES IN THE PROJECT AREA BEFORE ANY EXCAVATION OR BORING. IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO RESEARCH AND INVESTIGATE THE EXISTING UTILITIES IN THE WORK AREA. THE UTILITIES SHOWN IN THE PLANS ARE THE BEST OF INFORMATION AVAILABLE TO THE ENGINEER AND DRAWN FOR THE CONTRACTOR INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY THE UTILITIES BEFORE ANY DIGGING, EXCAVATION OR BORINGS.
- COORDINATE WITH SITE DRAWINGS, OTHER DISCIPLINES, AND EXISTING CONDITIONS TO AVOID INTERFERENCE AND CONDITIONS THAT WILL NOT ALLOW THE INSTALLATION OF MATERIALS, AS INDICATED.
- PULL BOXES SHALL BE SIZED WITH AT LEAST 50% MORE CAPACITY ABOVE AND BEYOND THE MINIMUM REQUIRED BY THE NEC UON.
- FURNISH LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO INSTALL, COMPLETE AND OPERABLE, THE ITEM OR SYSTEM INDICATED.
- PROVIDE ALL FITTINGS, SUPPORTS, JUNCTION BOXES, CLIPS, CONDULETS, RELATED COMPONENTS AND APPURTENANCES NECESSARY FOR MOUNTING UNDER-DECK AND ARTWORK LIGHTING. INSTALL UNDER-DECK LIGHT FIXTURES IN THE CENTER OF THE TWO BEAMS ON THE CEILING WITH WALL ADAPTERS AT LAUREL STREET BRIDGE COMPLETE AND FULLY FUNCTIONAL INSTALLATIONS.
- CONDUITS FOR CCTV FIBER OPTIC AND LIGHTING SHALL SHARE THE SAME TRENCH UON. PROVIDE PULL-STRING INSIDE THE EMPTY CCTV FIBER OPTIC CONDUIT FOR FUTURE USE. PULL-STRING SHALL BE CAPABLE OF PULLING FUTURE 12 STRAND FIBER OPTIC CABLE BETWEEN ADJACENT PULL BOXES.
- THE CONTRACTOR SHALL STAKE PROPOSED LIGHT POLE LOCATIONS IN THE FIELD FOR APPROVAL BY ELECTRICAL ENGINEER AND LANDSCAPE ARCHITECT PRIOR TO FINAL INSTALLATION.

DRWN:	
DSGN:	
CHKD:	
APVD:	
DATE:	07/11/14
JOB #:	12011325

NO.	BY	DATE	DESCRIPTION

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

LEGEND & NOTE

SHAHZAD AHMED, PE
 Registered Professional
 69863
 FL Reg No. Sign Date

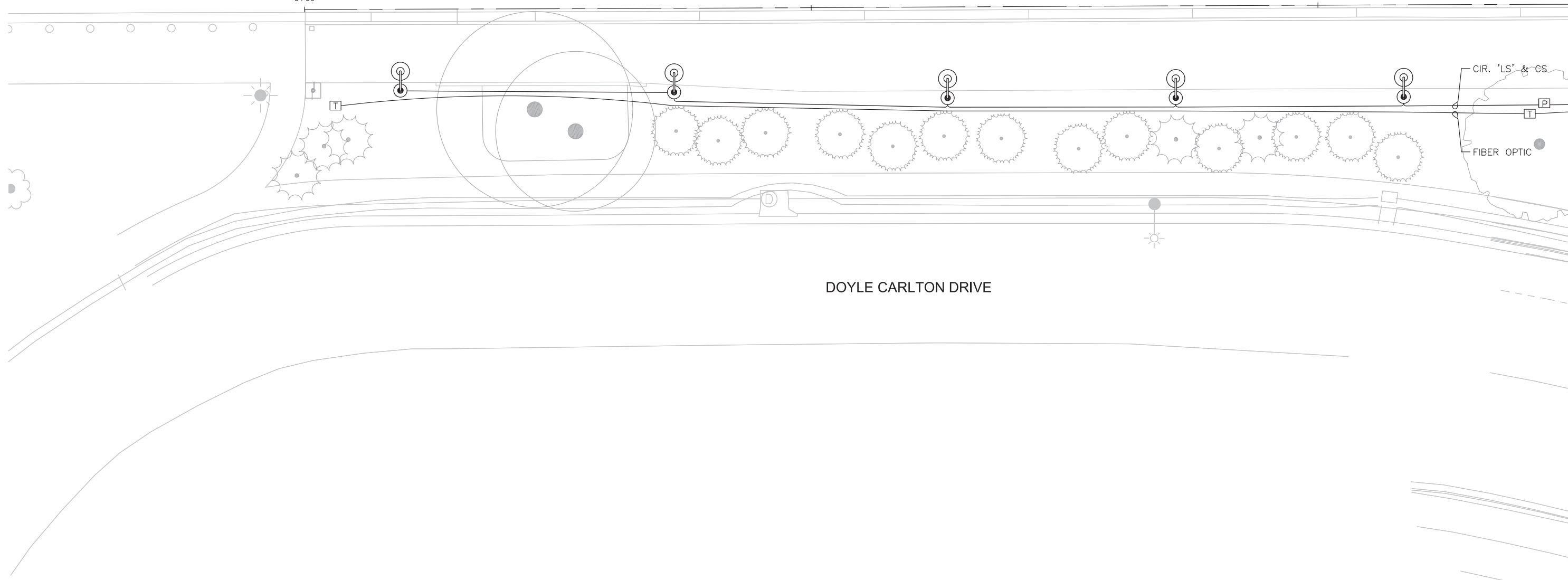
E001
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HILLSBOROUGH RIVER

0+00

1+00

2+00



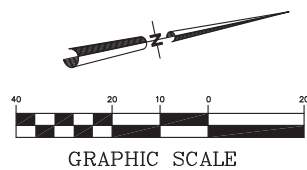
DOYLE CARLTON DRIVE

CIR. 'LS' & CS
FIBER OPTIC

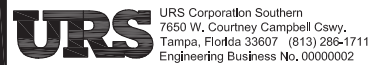
MATCHLINE SEE ELECTRICAL PLAN (E102)

NOTES:

- 1- CONDUITS FOR FIBER OPTIC AND LIGHTING SHALL SHARE THE SAME TRENCH.
- 2- SEE SHEET C-121 TREE PROTECTION AND DEMOLITION PLAN FOR CONDUITS INSTALLATION COORDINATION



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TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

ELECTRICAL SITE PLAN (SHEET 1 OF 7)

SHAHZAD AHMED, PE
Registered Professional
69863
FL Reg. No. Sign Date

E101

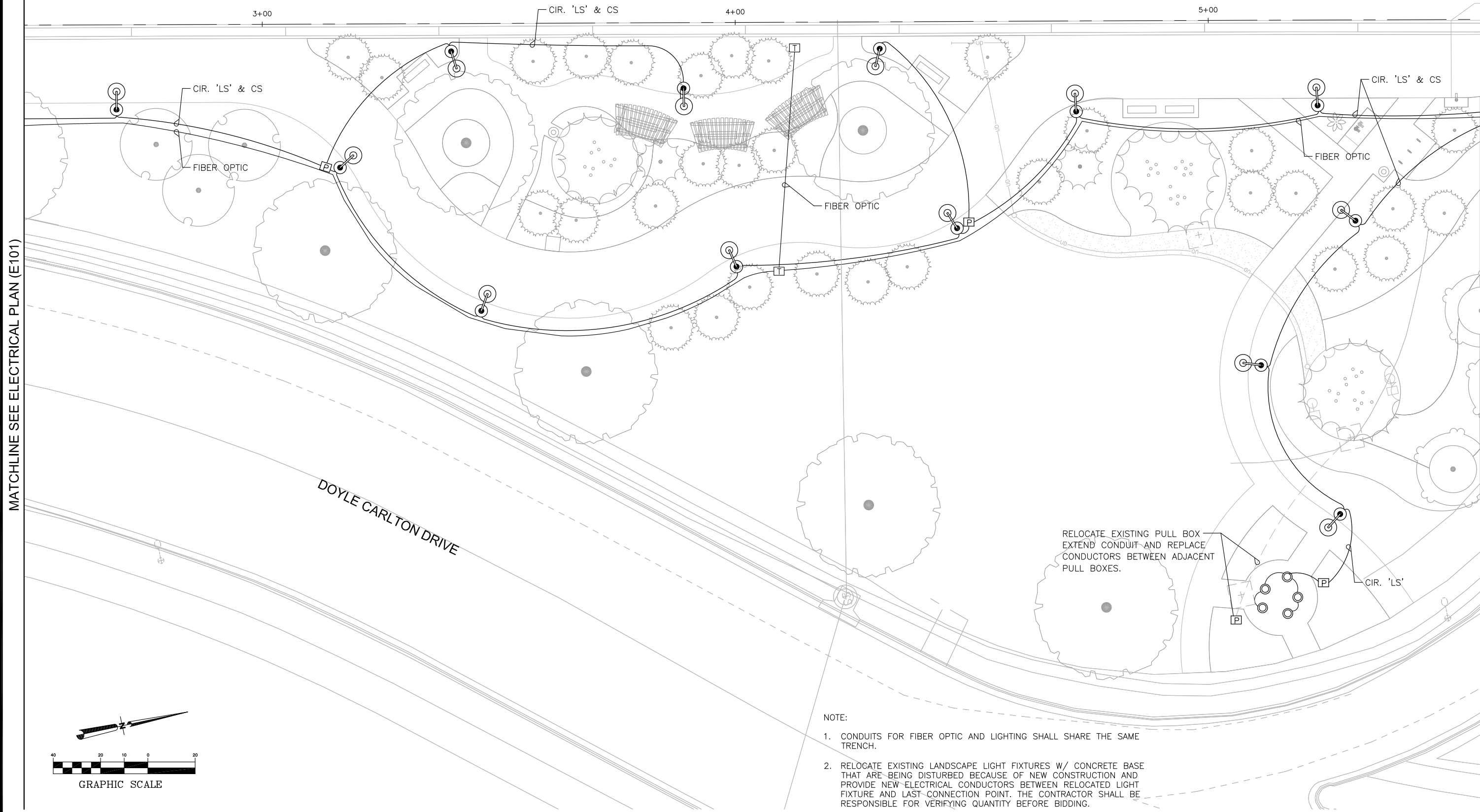
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HILLSBOROUGH RIVER

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MATCHLINE SEE ELECTRICAL PLAN (E101)

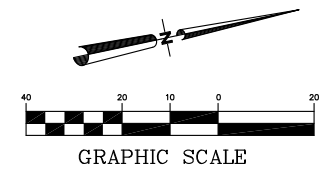
MATCHLINE SEE ELECTRICAL PLAN (E103)

DOYLE CARLTON DRIVE

RELOCATE EXISTING PULL BOX
EXTEND CONDUIT AND REPLACE
CONDUCTORS BETWEEN ADJACENT
PULL BOXES.

NOTE:

1. CONDUITS FOR FIBER OPTIC AND LIGHTING SHALL SHARE THE SAME TRENCH.
2. RELOCATE EXISTING LANDSCAPE LIGHT FIXTURES W/ CONCRETE BASE THAT ARE BEING DISTURBED BECAUSE OF NEW CONSTRUCTION AND PROVIDE NEW ELECTRICAL CONDUCTORS BETWEEN RELOCATED LIGHT FIXTURE AND LAST CONNECTION POINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING QUANTITY BEFORE BIDDING.



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7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 286-1711
Engineering Business No. 00000002

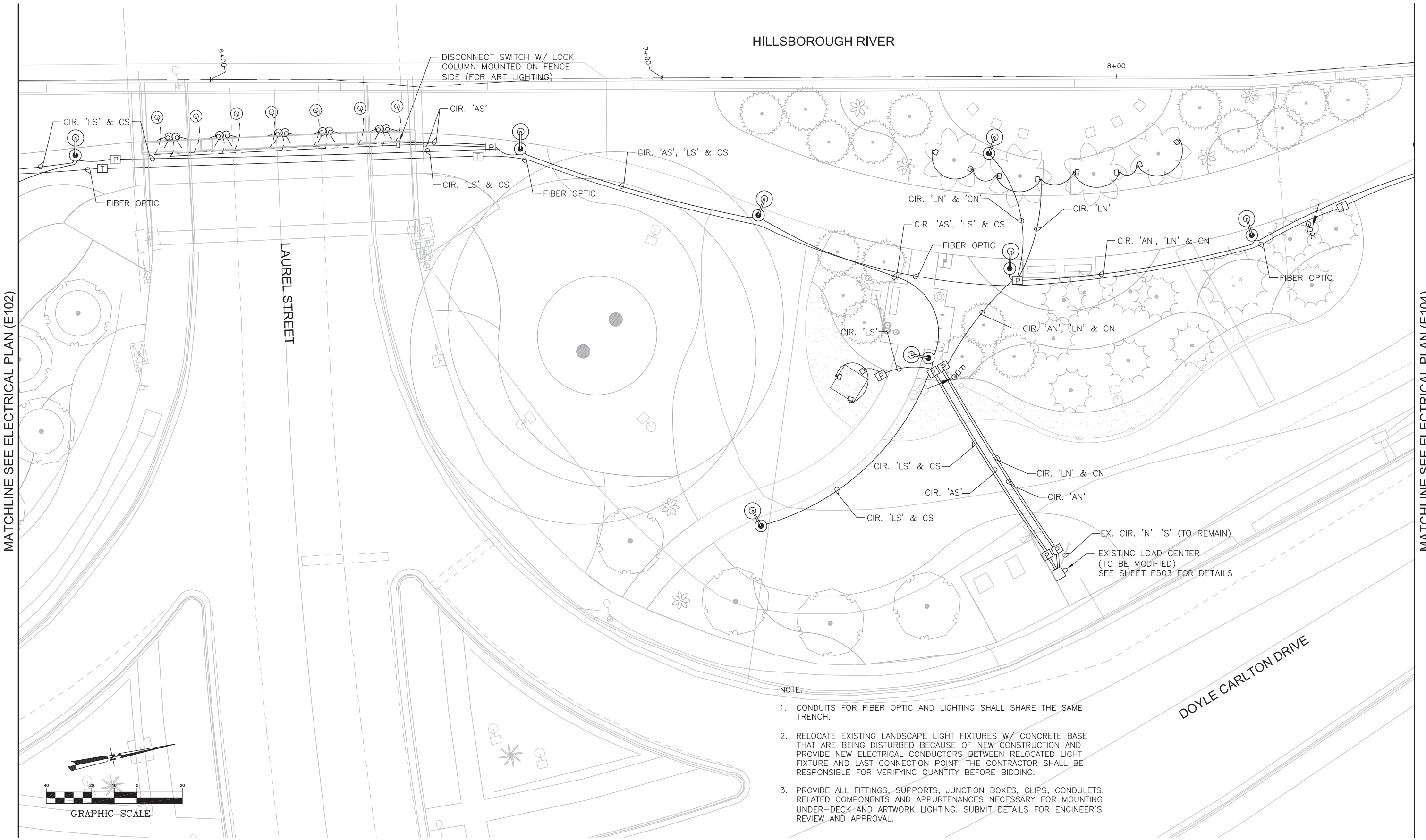
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

ELECTRICAL SITE PLAN (SHEET 2 OF 7)

SHAHZAD AHMED, PE
Registered Professional
69863
FL Reg No. Sign Date

MATCHLINE SEE ELECTRICAL PLAN (E102)

MATCHLINE SEE ELECTRICAL PLAN (E104)



NOTE:

1. CONDUITS FOR FIBER OPTIC AND LIGHTING SHALL SHARE THE SAME TRENCH.
2. RELOCATE EXISTING LANDSCAPE LIGHT FIXTURES W/ CONCRETE BASE THAT ARE BEING DISTURBED BECAUSE OF NEW CONSTRUCTION AND PROVIDE NEW ELECTRICAL CONDUCTORS BETWEEN RELOCATED LIGHT FIXTURE AND LAST CONNECTION POINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING QUANTITY BEFORE BIDDING.
3. PROVIDE ALL FITTINGS, SUPPORTS, JUNCTION BOXES, CLIPS, CONDULETS, RELATED COMPONENTS AND APPURTENANCES NECESSARY FOR MOUNTING UNDER-DECK AND ARTWORK LIGHTING. SUBMIT DETAILS FOR ENGINEER'S REVIEW AND APPROVAL.

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 7650 W. Courtney Campbell Causeway
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 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

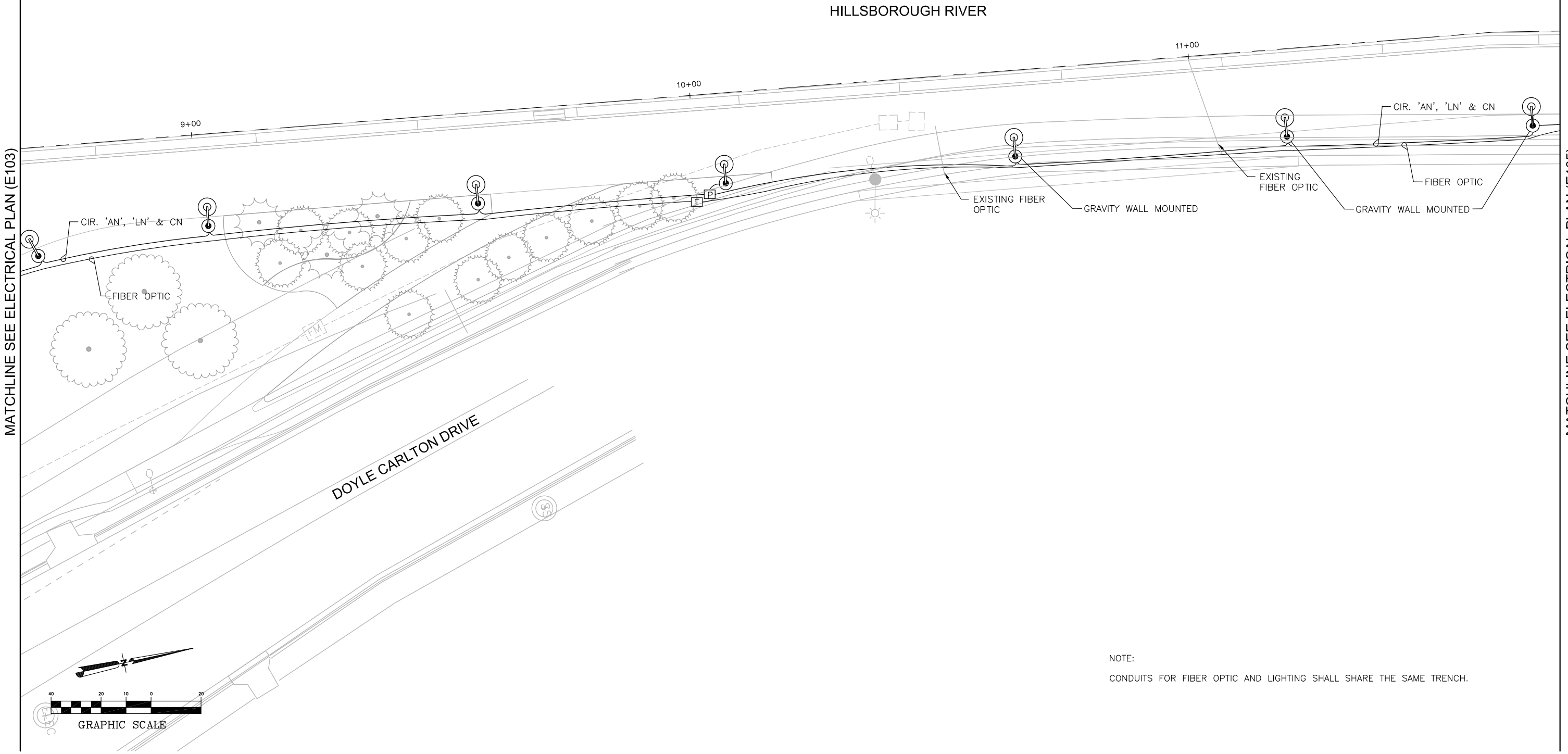
ELECTRICAL SITE PLAN (SHEET 3 OF 7)

SHAHZAD AHMED, PE
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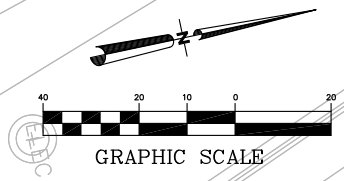
E103
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MATCHLINE SEE ELECTRICAL PLAN (E103)

MATCHLINE SEE ELECTRICAL PLAN (E105)



NOTE:
 CONDUITS FOR FIBER OPTIC AND LIGHTING SHALL SHARE THE SAME TRENCH.



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 Engineering Business No. 00000002

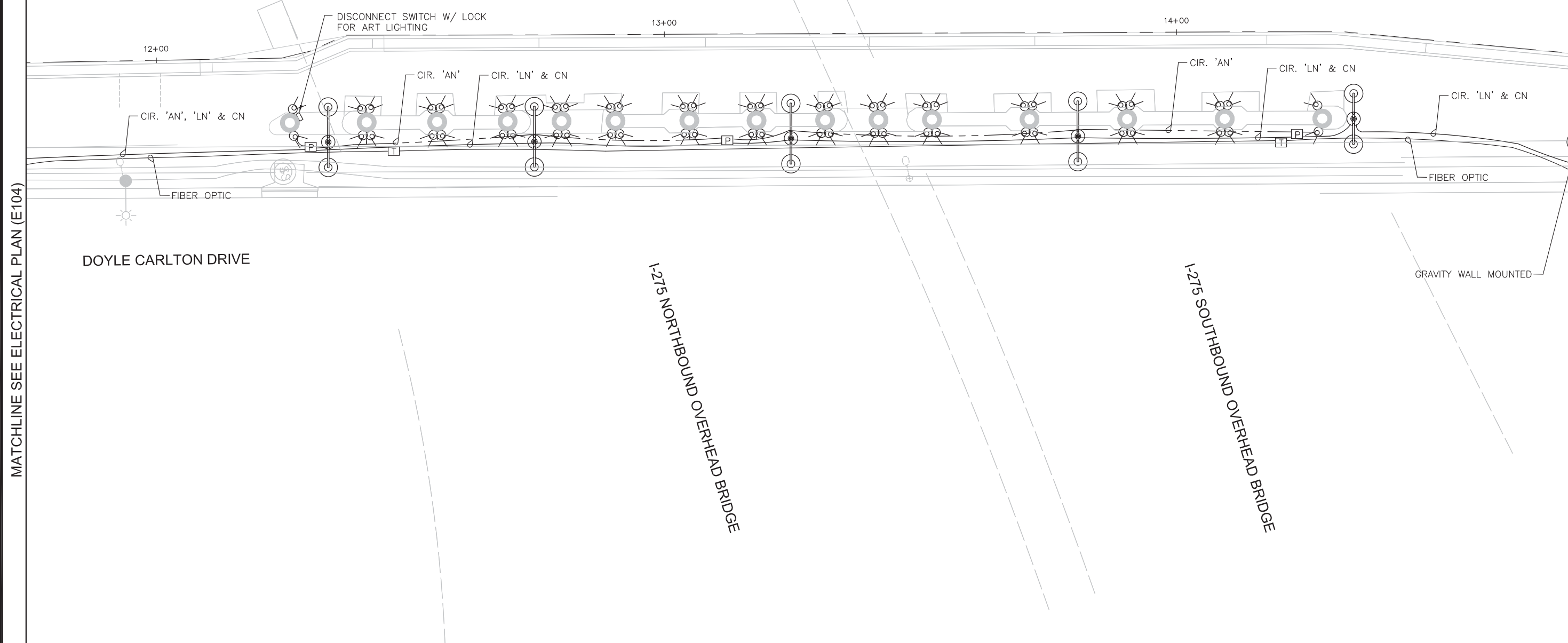
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

ELECTRICAL SITE PLAN (SHEET 4 OF 7)

SHAHZAD AHMED, PE
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E104
 print date:

HILLSBOROUGH RIVER



DOYLE CARLTON DRIVE

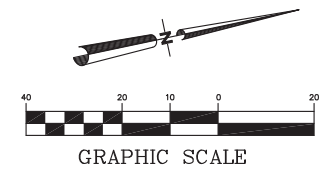
I-275 NORTHBOUND OVERHEAD BRIDGE

I-275 SOUTHBOUND OVERHEAD BRIDGE

GRAVITY WALL MOUNTED

MATCHLINE SEE ELECTRICAL PLAN (E104)

MATCHLINE SEE ELECTRICAL PLAN (E106)



NOTE:

1. CONDUITS FOR FIBER OPTIC AND LIGHTING SHALL SHARE THE SAME TRENCH.
3. PROVIDE ALL FITTINGS, SUPPORTS, JUNCTION BOXES, CLIPS, CONDULETS, RELATED COMPONENTS AND APPURTENANCES NECESSARY FOR MOUNTING UNDER-DECK AND ARTWORK LIGHTING. SUBMIT DETAILS FOR ENGINEER'S REVIEW AND APPROVAL.

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TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
 CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

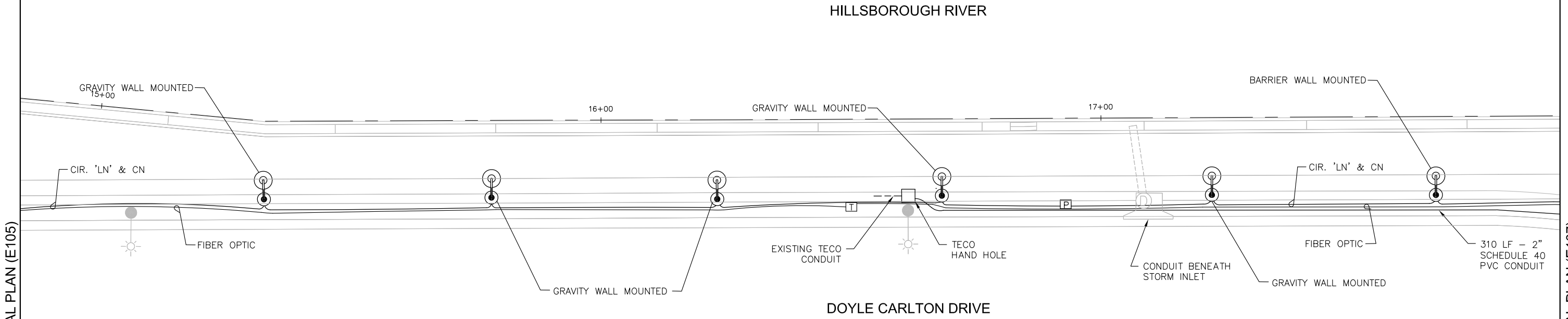
ELECTRICAL SITE PLAN (SHEET 5 OF 7)

SHAHZAD AHMED, PE
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E105

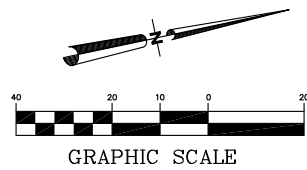
MATCHLINE SEE ELECTRICAL PLAN (E105)

MATCHLINE SEE ELECTRICAL PLAN (E107)



NOTES:

1. CONDUITS FOR FIBER OPTIC AND LIGHTING SHALL SHARE THE SAME TRENCH EXCEPT TECO STREET LIGHTING CONDUIT.
2. TECO TO BE CONTACTED PRIOR TO INITIATING EXCAVATION (PAUL MILLER, (813) 275-3377).
3. HAND HOLES WILL BE SUPPLIED BY TECO.



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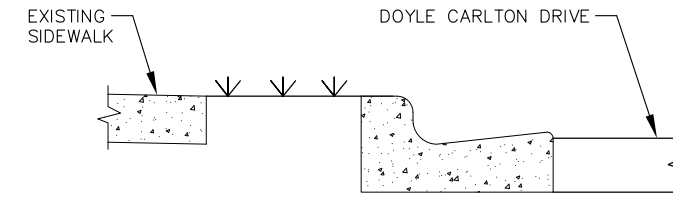
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
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 CONTRACT NO. 14-C-00033
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ELECTRICAL SITE PLAN (SHEET 6 OF 7)

SHAHZAD AHMED, PE
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E106
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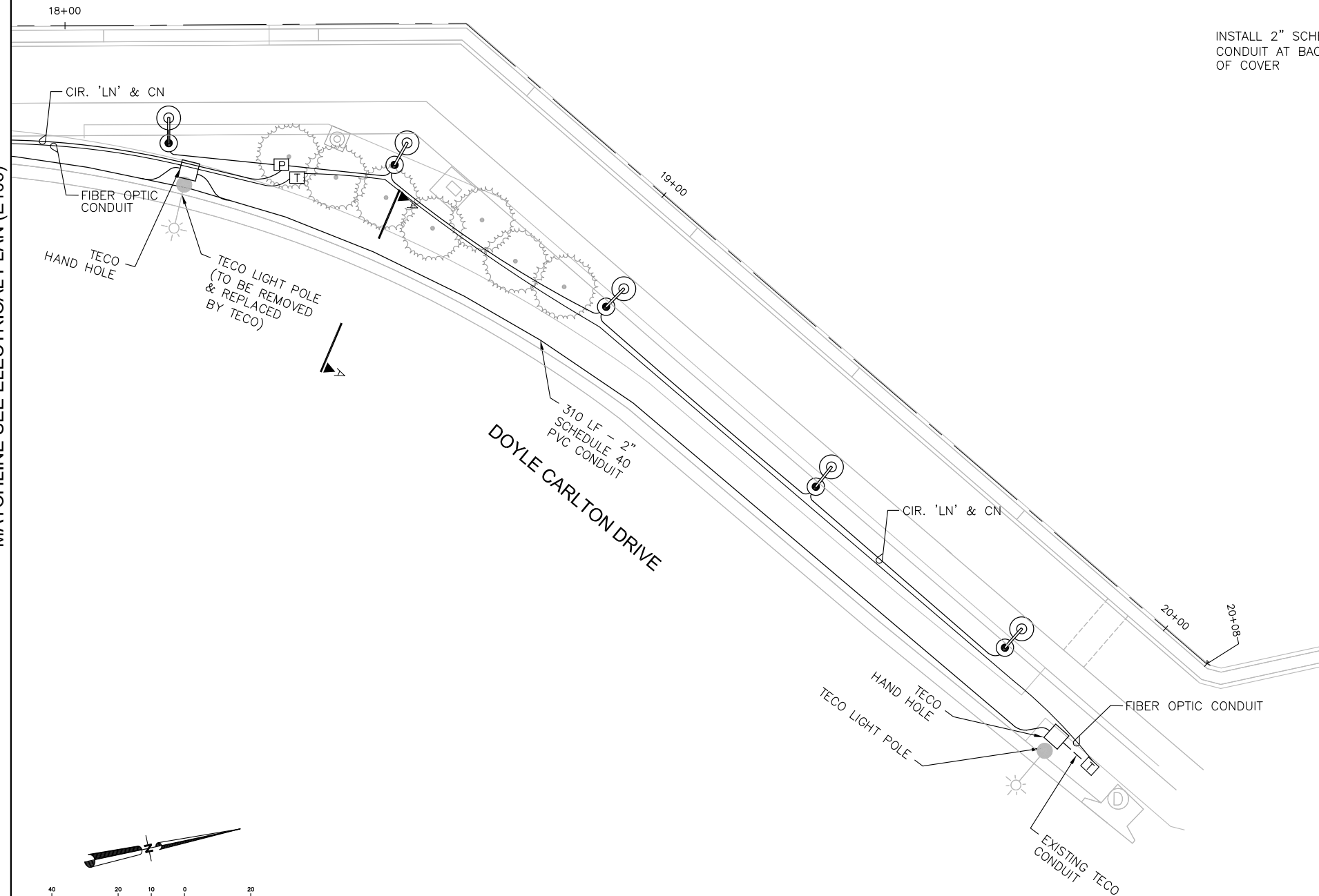
HILLSBOROUGH RIVER



INSTALL 2" SCHEDULE 40 PVC CONDUIT AT BACK OF CURB W/ 3' OF COVER

1 SECTION A-A
E107 SCALE: N.T.S.

MATCHLINE SEE ELECTRICAL PLAN (E106)

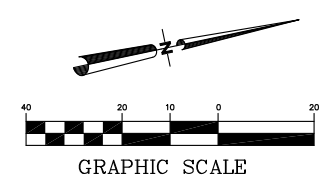


TECO LIGHT POLE (TO BE REMOVED & REPLACED BY TECO)
TECO HAND HOLE
FIBER OPTIC CONDUIT
CIR. 'LN' & CN

310 LF - 2" SCHEDULE 40 PVC CONDUIT
DOYLE CARLTON DRIVE

EXISTING TECO CONDUIT
TECO LIGHT POLE
HAND TECO HOLE
FIBER OPTIC CONDUIT
CIR. 'LN' & CN

- NOTES:
1. CONDUITS FOR FIBER OPTIC AND LIGHTING SHALL SHARE THE SAME TRENCH EXCEPT TECO STREET LIGHTING CONDUIT.
 2. TECO TO BE CONTACTED PRIOR TO INITIATING EXCAVATION (PAUL MILLER, (813) 275-3377).
 3. HAND HOLES WILL BE SUPPLIED BY TECO.



NO.	BY	DATE	DESCRIPTION

REVISIONS

URS URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 286-1711
Engineering Business No. 00000002








TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

ELECTRICAL SITE PLAN (SHEET 7 OF 7)

SHAHZAD AHMED, PE
Registered Professional
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E107
print date:

LIGHTING FIXTURE SCHEDULE

FIXT. TYPE	FIXTURE DESCRIPTION	MANUFACTURER & BASIS OF DESIGN	MODEL #	VOLT	MOUNTING	REMARKS
SINGLE 	POLE MOUNTED LED 4500K PENDANT LIGHT FIXTURE WITH TYPE II DISTRIBUTION. PROVIDE DOUBLE FUSE, BANNER ARMS, RECEPTACLE, SINGLE CLUSTER AND COLOR SILVER.	SELUX LIGHTING - BETA PENDANT LED LIGHTING - TYPE II DISTRIBUTION 40W, SILVER COLOR OR APPROVED EQUAL	BPL-R2-1C-4TLO-45-SV-208	208	SINGLE LIGHT FIXTURE PER POLE - 14' MOUNTING HEIGHT	PROVIDE RECEPTACLE AND DUAL BANNER MOUNTING WITH ARMS
DOUBLE 	POLE MOUNTED LED 4500K (WHITE) DOUBLE PENDANT LIGHT FIXTURES WITH TYPE II DISTRIBUTION. PROVIDE DOUBLE FUSE, SINGLE CLUSTER AND COLOR SILVER.	SELUX LIGHTING - BETA PENDANT LED LIGHTING - TYPE II DISTRIBUTION 40W, SILVER COLOR OR APPROVED EQUAL	BPL-R2-2C-4TLO-45-SV-208	208	DOUBLE LIGHT FIXTURE PER POLE - 14' MOUNTING HEIGHT	PROVIDE RECEPTACLE.
DOUBLE 	POLE MOUNTED LED 4500K (WHITE) DOUBLE PENDANT LIGHT FIXTURES WITH TYPE II DISTRIBUTION. PROVIDE DOUBLE FUSE, SINGLE CLUSTER AND COLOR SILVER.	SELUX LIGHTING - BETA PENDANT LED LIGHTING - TYPE II DISTRIBUTION 40W, SILVER COLOR OR APPROVED EQUAL	BPL-R2-2C-4TLO-45-SV-208	208	DOUBLE LIGHT FIXTURE PER POLE - 14' MOUNTING HEIGHT	PROVIDE RECEPTACLE.
UNDER DECK 	UNDER DECK LIGHTING FIXTURE SURFACE MOUNTED, 4100K, NATURAL ALUMINUM COLOR, DOUBLE FUSE, TAMPER RESISTANT SCREWS	LITHONIA GATEWAY LIGHTING - SURFACE FIXTURE LED LIGHTING, ROUND OPEN FACE, CEILING MOUNTED OR APPROVED EQUAL	VGR5C-40LED-41-MVOLT-DNAT-DF-TRS-LPI	208	SURFACE MOUNT, CENTER THE LIGHT FIXTURE BETWEEN BRIDGE BEAMS	PROVIDE WALL ADOPTER, MOUNT UNDER THE BRIDGE CENTERED BETWEEN TWO BEAMS
SCULPTURE#1 LIGHTING 	IN-GRADE LED FIXTURE WITH MEDIUM FLOOD DISTRIBUTION. 4100 NEUTRAL WHITE, STAINLESS STEEL, FLAT ANTI-SLIP LENS, RATED IP67, UL LISTED, STAINLESS STEEL	HYDREL LIGHTING - IN-GRADE PARADOX 10 SERIES LED ARCHITECTURAL - MEDIUM FLOOD DISTRIBUTION OR APPROVED EQUAL	PDX10-SS-18LED-WHT41K-MVOLT-MFL-FLCAS-34S-LP	208	IN-GRADE	THE LIGHT FIXTURE SHALL BE PLACED AND ADJUSTED IN THE FIELD TO PROVIDE THE MAX. LIGHTING EFFECT FOR THE AMERICA-AMERICA ART PIECE. CONSULT ENGINEER AND CITY BEFORE FINAL PLACEMENT AND ADJUST IF REQUIRED.
SCULPTURE#2 AND TREE LIGHTING 	STANCHION MOUNTED LED FLOOD FOR METAL ART LIGHTING AND PALM TREE UP-LIGHTING	LITHONIA LIGHTING, D-SERIES SIZE 2 LED FLOOD LUMINAIRE, UPPER/BOTTOM VISOR OR APPROVED EQUAL	DSXF2 LED - THREE COB ENGINES - A530/40K - FL - 208-IS-UBV-DNAXD	208	STANCHION - PROVIDE MOUNTING AS REQUIRED FOR 8" ABOVE GRADE	THE LIGHT FIXTURE SHALL BE PLACED AND ADJUSTED IN THE FIELD TO PROVIDE THE MAX. LIGHTING EFFECT FOR THE ART PIECE AND PALM TREES PLACED NORTH OF LAUREL STREET. CONSULT ENGINEER AND CITY BEFORE FINAL PLACEMENT AND MAKE ADJUSTMENTS AS REQUIRED.
ART WORK LIGHTING 	SIDE MOUNTED LED FLOOD FOR ART WORK LIGHTING, SEE DETAILS OF COLUMNS FOR MOUNTING ON ARCHITECT PLANS.	WINIONA BLANCA SERIES FLOOD SPOT LED LIGHTING, ROUND OPEN FACE OR APPROVED EQUAL	BSP-715-60-40K 120-277-A1-SIT-STD	208	YOKE OR KNUCKLE AS REQUIRED	PROVIDE MOUNTING INCLUDING HARDWARE AT LOCATIONS SHOWN ON ARCHITECTURE PLAN

NOTES :

- LIGHT POLE SHALL BE SELUX ALUMINUM WITH STANDARD BASE COVER OR APPROVED EQUAL. ALL LIGHTING POLES SHALL BE ROUND STRAIGHT ALUMINUM IN THE HEIGHTS SHOWN, ALL POLES SHALL BE RATED AT FDOT RECOMMENDED STANDARDS FOR WIND SPEED AND PROVIDED WITH FLORIDA SIGNED AND SEALED ENGINEERED DRAWINGS. ALL POLES SHALL HAVE FULL BASE COVERS, NUT COVERS ALONE ARE NOT ACCEPTABLE. THREADED STEEL COLLAR REQUIRED FOR MOUNTING OF FIXTURE TO ARMS. SET SCREW TYPE MOUNTING OR ANY OTHER TYPE IS NOT ACCEPTABLE. SIDE BRACKET MOUNTING DESIGN FROM ARM TO POLE IS MANDATORY, TENON MOUNTING IS NOT ACCEPTABLE. BANNER ARM MOUNTING IS THRU THE USE OF A THREADED HUB, CLAMP BRACKETS OF ANY TYPE ARE NOT ACCEPTABLE.
- SCULPTURE LIGHTING FIXTURES SHALL HAVE FINAL OPTICS DETERMINED ONCE AWARD OF PROJECT IS MADE. THERE SHALL NOT BE A COST DIFFERENCE BETWEEN DIFFERENT OPTICAL CHOICES FOR THIS TYPE. A SAMPLE FIXTURE MAY BE REQUIRED TO DETERMINE BEST REFLECTOR TYPE FOR THIS INSTALLATION, TO BE FIELD MODELED.
- ART WORK LIGHTING MOUNTING BRACKET(S) DRAWINGS SHALL BE PROVIDED BY CONTRACTOR TO DETERMINE BEST METHOD OF INSTALLING THESE TYPES. A SUBMITTED DRAWING SHALL BE MADE AFTER AWARD FOR APPROVAL BY CONSULTING ENGINEER.
- POLE RECEPTACLES SHALL BE GFCI TYPE AND HAVE WEATHERPROOF COVERS.
- THE SPECIFIED LIGHTING PACKAGE HAS BEEN ENGINEERED AND SELECTED FOR PERFORMANCE AND AESTHETIC PURPOSES. ANY PROPOSED SUBSTITUTIONS SHALL BE REQUESTED IN WRITING, THRU CHANNELS, TO THE APPROPRIATE PERSON HANDLING THIS PROJECT. PRODUCT SAMPLES, PHOTOMETRIC CALCULATIONS, AND OTHER INFORMATION MAY/WILL BE REQUIRED FOR CONSIDERATION OF OTHER MANUFACTURERS. ONLY MANUFACTURERS BEING PRIOR APPROVED WILL BE CONSIDERED, NO APPROVAL OF OTHER FIRMS WILL BE CONSIDERED ONCE PROJECT HAS BEEN BID. MINIMUM 14 DAYS PRIOR TO BID REQUIRED FOR ANY SUBSTITUTION REQUESTS. ANY SUBSTITUTION REQUESTS MAY REQUIRE ENGINEERING COSTS TO BE BORNE BY SUBMITTING COMPANY AND/OR THE CONTRACTOR.
- THE CONTRACTOR SHALL FACTOR ALL THE REQUIRED FILED ADJUSTMENTS AND HARDWARE AT THE TIME OF BID.

Drawing Name: T:\Tampa Riverwalk Doyle Carlton Drawings\E501-Details.dwg Last Modified: Nov 03, 2014 - 2:44pm Plotted on: Nov 04, 2014 - 2:30pm by ahshad.ahmed

DRWN:	
DSGN:	
CHKD:	
APVD:	
DATE: 07/11/14	
JOB #: 12011325	

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Engineering Business No. 00000002

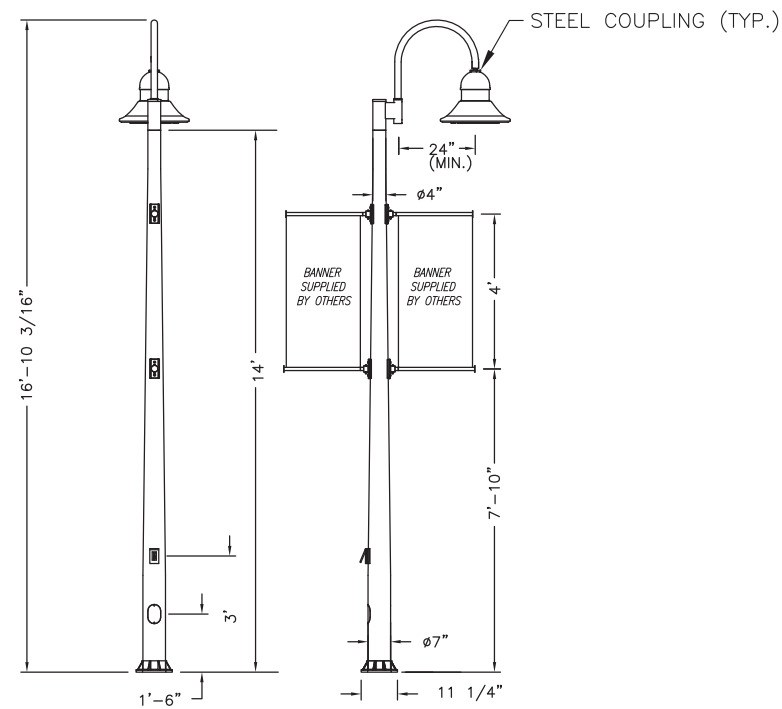
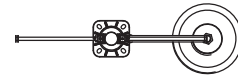
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

ELECTRICAL DETAILS (1 OF 5)

SHAHZAD AHMED, PE
Registered Professional
69863
FL Reg. No. Sign Date

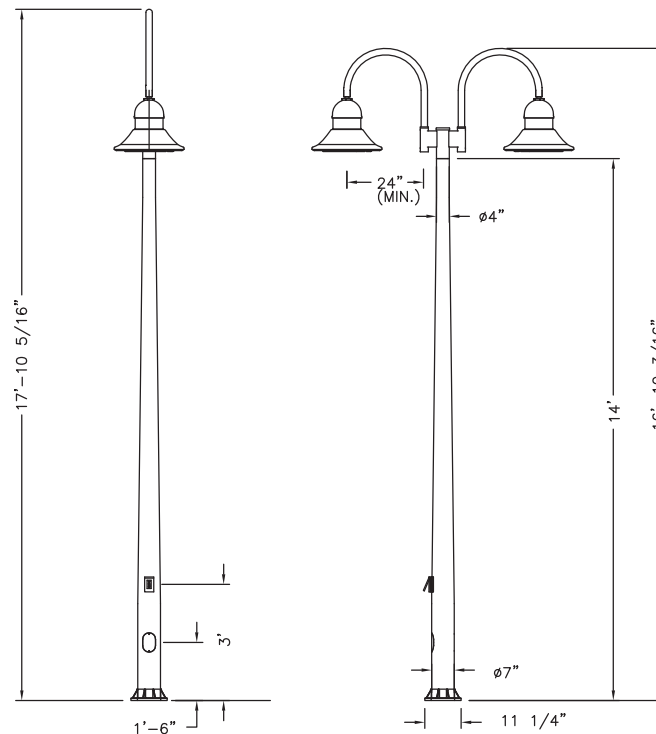
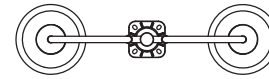
E501
print date:

NOTE: BANNER ARMS WILL BE PROVIDED WITH SINGLE LUMNAIRE POLES.

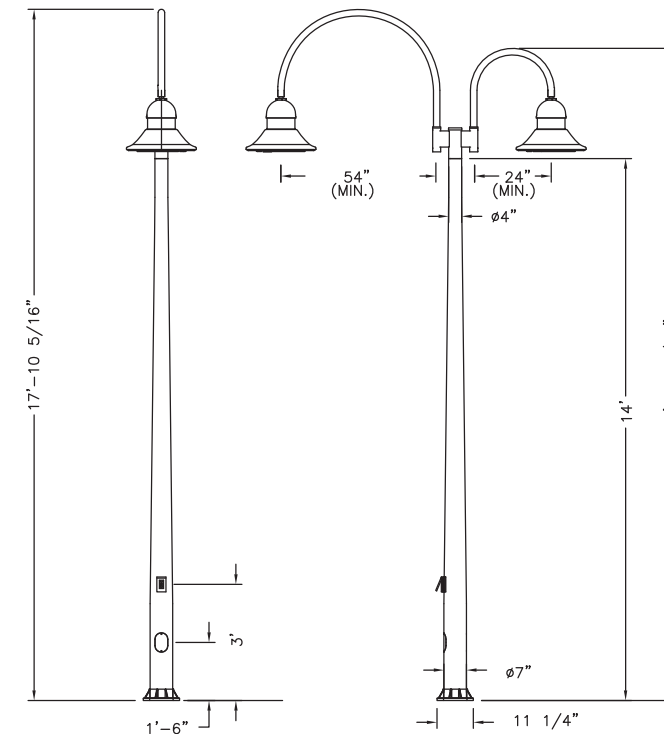
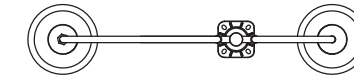


1 LIGHT FIXTURE - SINGLE LUMINAIRE
E502 SCALE: N.T.S.

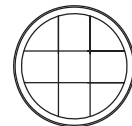
NOTE: NO BANNER ARMS WILL BE REQUIRED FOR DOUBLE LUMNAIRE POLES.



2 LIGHT FIXTURE - DOUBLE LUMINAIRE
E502 SCALE: N.T.S.



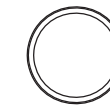
3 LIGHT FIXTURE - DOUBLE LUMINAIRE (ONE ARM LONGER THAN OTHER)
E502 SCALE: N.T.S.



4 LIGHT FIXTURE - UNDERDECK
E502 SCALE: N.T.S.



5 LIGHT FIXTURE - ART LIGHTING
E502 SCALE: N.T.S.



(IN-GRADE)

6 LIGHT FIXTURE - SCULPTURE LIGHTING
E502 SCALE: N.T.S.

Drawing Name: T:\Tampa Riverwalk Doyle Carlton Drawings\E502-Details.dwg Last Modified: Nov 03, 2014 - 2:35pm Plotted on: Nov 04, 2014 - 2:35pm by shahzad_ahmed

NO.	BY	DATE	DESCRIPTION



TAMPA RIVERWALK - DOYLE CARLTON SEGMENT

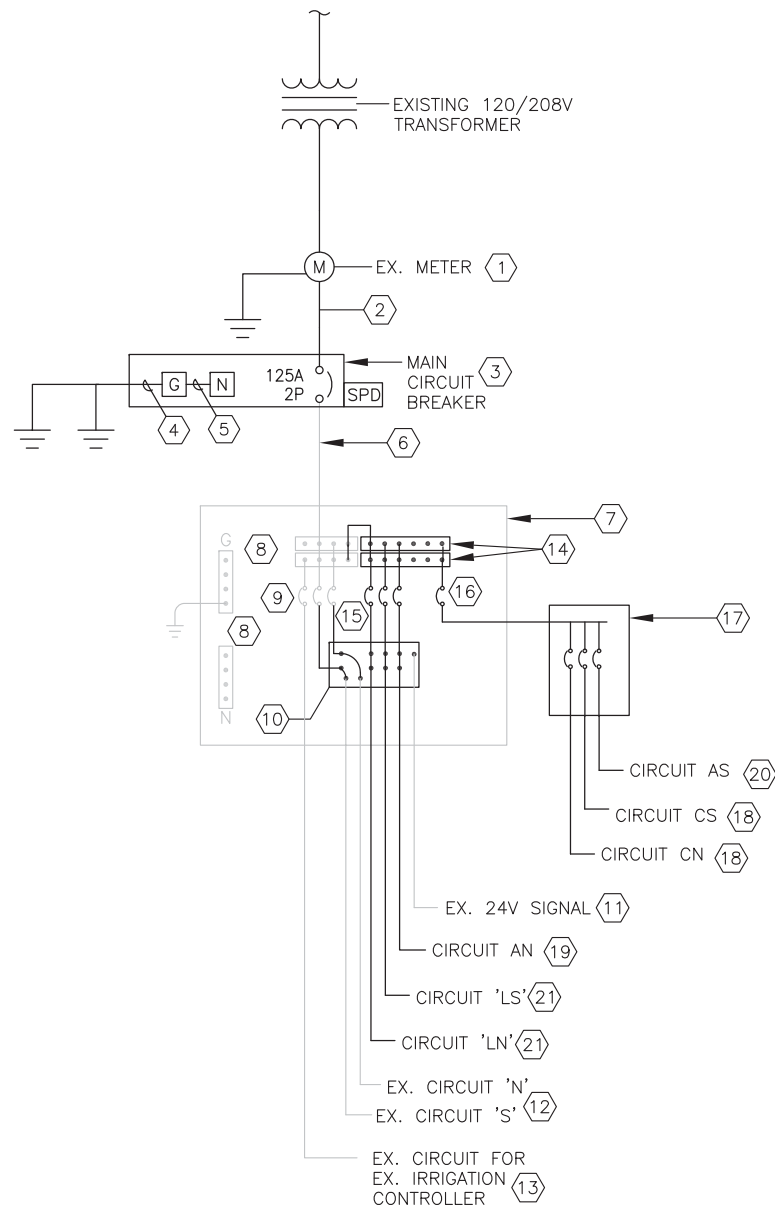
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

ELECTRICAL DETAILS (2 OF 5)

SHAHZAD AHMED, PE
Registered Professional
69863
FL Reg No. Sign Date

E502

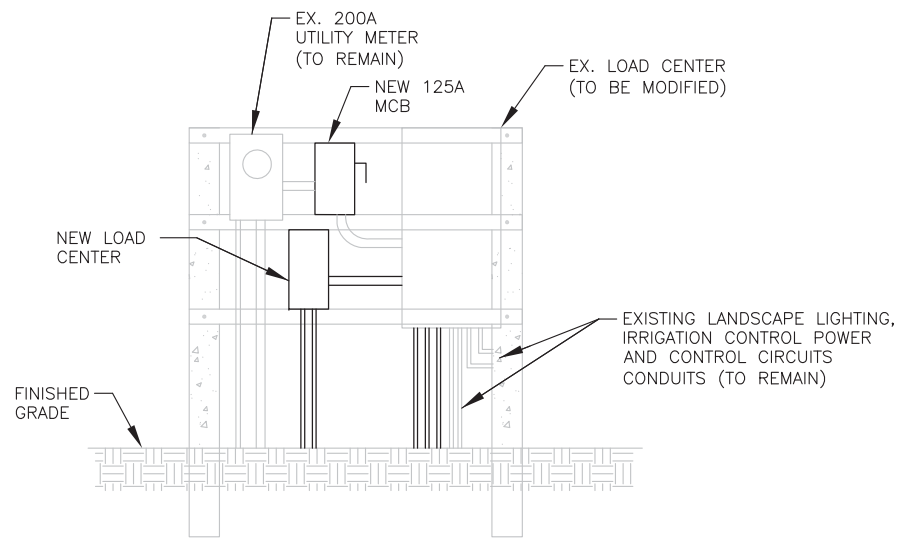
print date:



1 ONE LINE DIAGRAM
E503 SCALE: N.T.S.

REFERENCE NOTES:

- 1 EXISTING METER WITH POWER SERVICE CONNECTION FROM TECO POWER SERVICE 120/208V, SINGLE PHASE, 3 WIRE TO REMAIN.
- 2 EXISTING 3#1/0 AWG SERVICE CONDUCTORS CONDUIT TO REMAIN.
- 3 REPLACE EXISTING 60A SERVICE RATED MAIN DISCONNECT WITH MAIN CIRCUIT BREAKER 125A, 2P, SINGLE PHASE, 240V, 22KAIC, SERVICE RATED IN NEMA TYPE 4X ENCLOSURE WITH SOLID NEUTRAL KIT. PROVIDE TYPE 2 SURGE PROTECTION DEVICE (SPD) ON SECONDARY SIDE OF MAIN BREAKER AS PER UL1349 3RD EDITION.
- 4 USE EXISTING COPPER GROUNDING ELECTRODE CONDUCTOR FOR GROUNDING.
- 5 PROVIDE NEUTRAL GROUND BOND IN THE DISCONNECT.
- 6 3 #1/0 AWG, 1#4 AWG GND IN 2" C.
- 7 EXISTING 24"X36"X10" NEMA 4X STAINLESS STEEL ENCLOSURE WITH BACKPANEL TO REMAIN. REMOVE EXISTING RECEPTACLE INSIDE THE ENCLOSURE, CONDUCTORS, AND RELATED CIRCUIT BREAKER. ARRANGE THE EXISTING AND PROPOSED CIRCUIT BREAKERS, CONTACTOR, CONDUCTORS, AND OTHER ITEMS IN THE ENCLOSURE FOR A CLEAN INSTALLATION.
- 8 EXISTING PANEL MOUNT POWER DISTRIBUTION BLOCKS (PDB) TO REMAIN.
- 9 EXISTING TWO 20A BACKPANEL MOUNTED CIRCUIT BREAKERS FOR LANDSCAPE LIGHTING CIRCUIT 'N' AND 'S' TO REMAIN.
- 10 REPLACE EXISTING ELECTRICALLY HELD 6 POLE LIGHTING CONTACTOR WITH 12 POLE 100A, 240V RATED CONTACTS AND 24V COIL VOLTAGE. USE TWO (2) POLES FOR 208V WALKWAY, ART LIGHTING UNDER I-275, AND EXISTING LANDSCAPE LIGHTING CIRCUITS. CONTACTOR SHALL BE OPERATED BY 24V SIGNAL FROM THE EXISTING IRRIGATION CONTROLLER FROM LANDSCAPE LIGHTING CONTROL.
- 11 EXISTING 2#14AWG CONDUCTORS (24V SIGNAL CIRCUIT) IN CONDUIT FROM IRRIGATION CONTROLLER TO THE LIGHTING CONTACTOR TO REMAIN.
- 12 EXISTING 208V CIRCUIT FOR EXISTING LANDSCAPE LIGHTING CIRCUITS TO REMAIN.
- 13 EXISTING IRRIGATION SYSTEM POWER CIRCUIT TO BE CONNECTED TO NEW CONTACTOR.
- 14 PROVIDE 600V TIN PLATED COPPER PANEL MOUNT POWER DISTRIBUTION BLOCKS (PDB) SUITABLE FOR USE WITH COPPER CONDUCTORS. PROVIDE ONE 2P PDB (A AND B PHASE).
- 15 THREE 20A, 2P, 240V, 10 KAIC, BACKPANEL MOUNTED CIRCUIT BREAKERS FOR WALKWAY LIGHTING CIRCUITS 'LN', 'LS', AND 'AN' ART LIGHTING UNDER I-275 BRIDGE.
- 16 60A, 2P, 208V, 10 KAIC, BACKPANEL MOUNTED CIRCUIT BREAKER TO THE NEW LOAD CENTER. PROVIDE 2 #4 AWG, 1#4 AWG GND TO NEW LOAD CENTER.
- 17 NEW 60A, 240V, SINGLE PHASE, NEMA RATED 4X ENCLOSURE, NEUTRAL AND GROUND BARS LOAD CENTER WITH SIX 20A, 1P, 10 KAIC, CIRCUIT BREAKERS. USE THREE 20A CIRCUIT BREAKERS FOR RECEPTACLE CIRCUITS 'CN', 'CS', AND 'AS' ART/UNDERDECK LIGHTING AND THREE CIRCUIT BREAKERS SPARES.
- 18 2#6 AWG, 120V CIRCUIT FOR RECEPTACLES.
- 19 2#6 AWG, 120V CIRCUIT FOR ART LIGHTING UNDER I-275 BRIDGE. PROVIDE 1#6 AWG GND CONDUCTOR WHERE CIRCUIT IS NOT IN SHARED CONDUIT.
- 20 2#6 AWG, 120V CIRCUIT FOR ART AND UNDERDECK LIGHTING UNDER LAUREL STREET BRIDGE. PROVIDE 1#6 AWG GND CONDUCTOR WHERE CIRCUIT IS NOT IN SHARED CONDUIT.
- 21 2 #4 AWG, 1#6 AWG GND, 208V CIRCUIT FOR WALKWAY LIGHTING CIRCUITS 'LN' AND 'LS'.



2 ELECTRICAL LOAD CENTER DETAIL
E503 SCALE: N.T.S.

EXISTING AND PROPOSED SERVICE LOAD SUMMARY	
EXISTING LANDSCAPE LIGHTING	2.0 KW
EXISTING IRRIGATION SYSTEM	0.2 KW
PROPOSED LIGHTING	7.3 KW
PROPOSED RECEPTACLES	6.0 KW
PROJECTED DEMAND AFTER PROJECT (KVA)	15.5 KVA
PROJECTED DEMAND AFTER PROJECT @ 208V (AMPERES)	74.5 AMPERES

Drawing Name: T:\Tampa Riverwalk Doyle Carlton\Drawings\E503-Details.dwg Last Modified: Nov 04, 2014 - 2:30pm by shahzad_ahmed

NO.	BY	DATE	DESCRIPTION

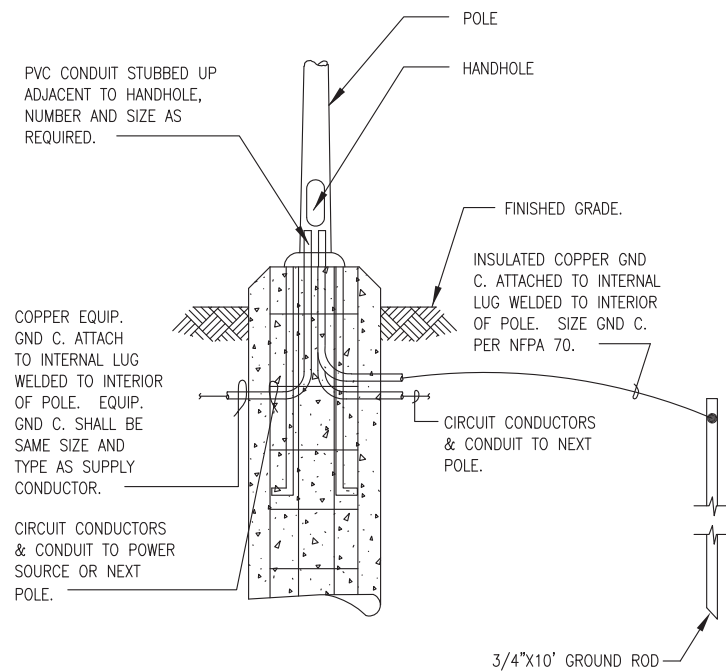


TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
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CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

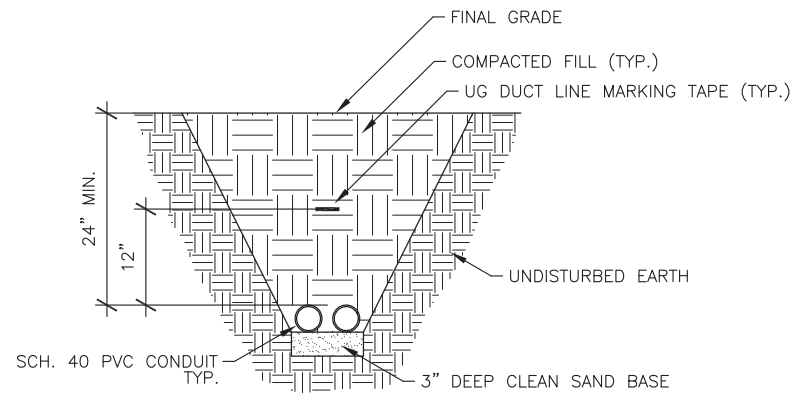
ELECTRICAL DETAILS (3 OF 5)

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Registered Professional
69863
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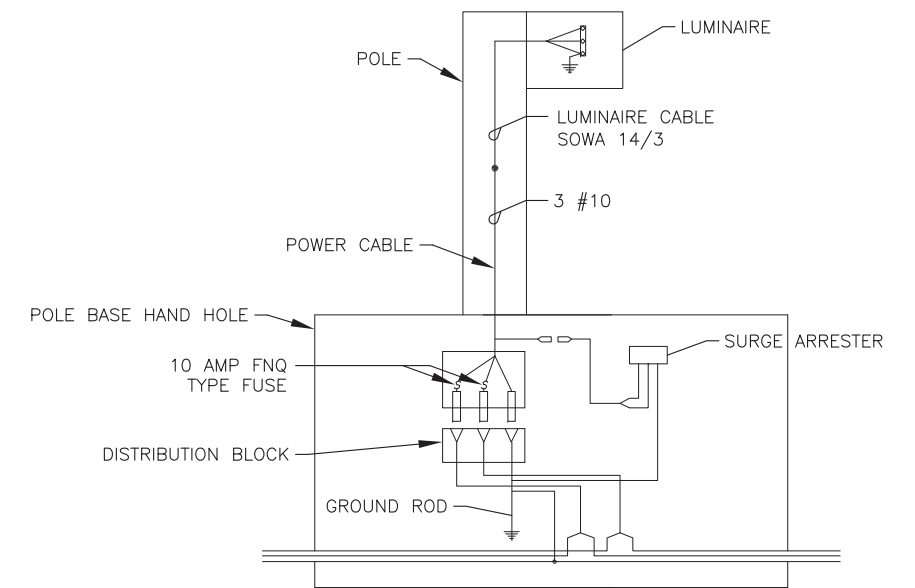
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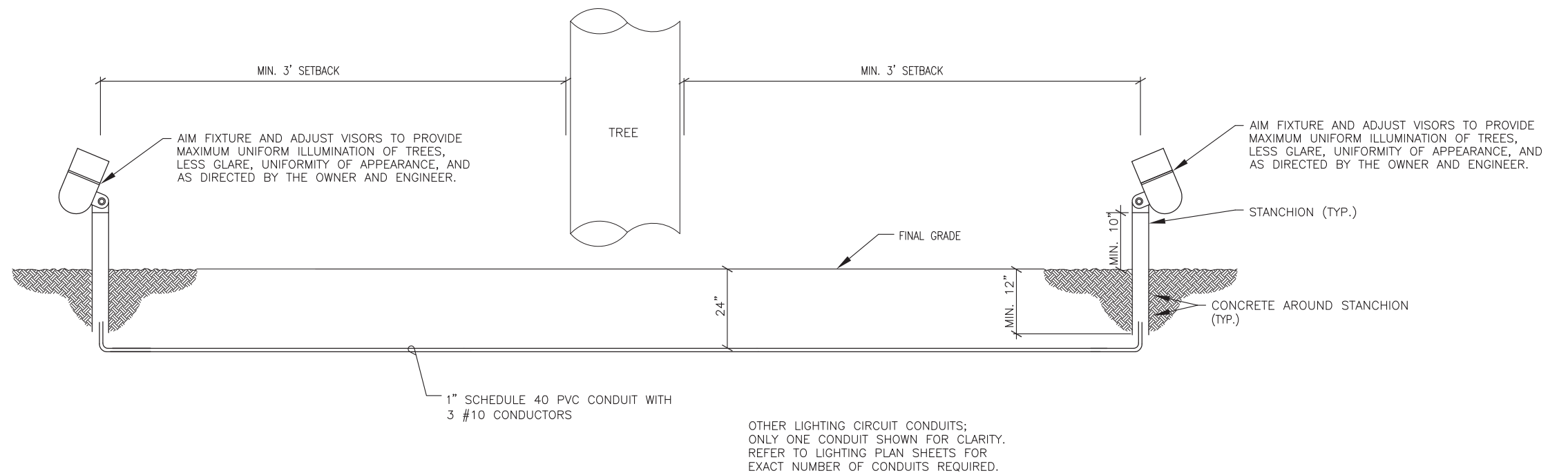
1 LIGHT POLE FOUNDATION DETAILS
 E504 SCALE: N.T.S. (SEE SITE CIVIL PLANS FOR DETAILS)



2 TYP. CONDUIT UNDERGROUND
 E504 SCALE: N.T.S.



3 SCHEMATIC WIRING DIAGRAM
 E504 SCALE: N.T.S. (TYPICAL FOR POLE LIGHTING LUMINAIRES)



4 LANDSCAPE LIGHTING - GROUND MOUNTED LUMINAIRES
 E-504 SCALE: N.T.S.

Drawing Name: T:\Tampa Riverwalk Doyle Carlton\Drawings\E504-Details.dwg Last Modified: Nov 04, 2014 - 2:23pm Plotted on: Nov 04, 2014 - 2:30pm by shahzad_ahmed

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 Engineering Business No. 00000002

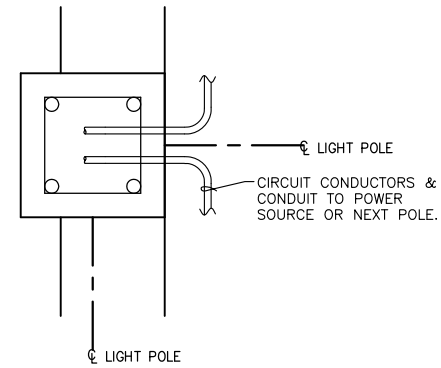
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

ELECTRICAL DETAILS (4 OF 5)

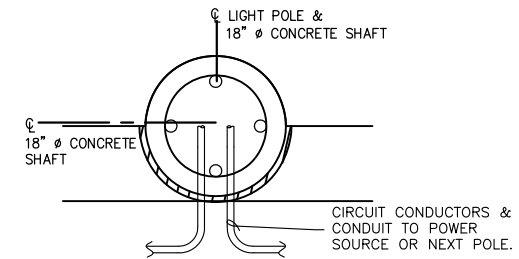
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E504

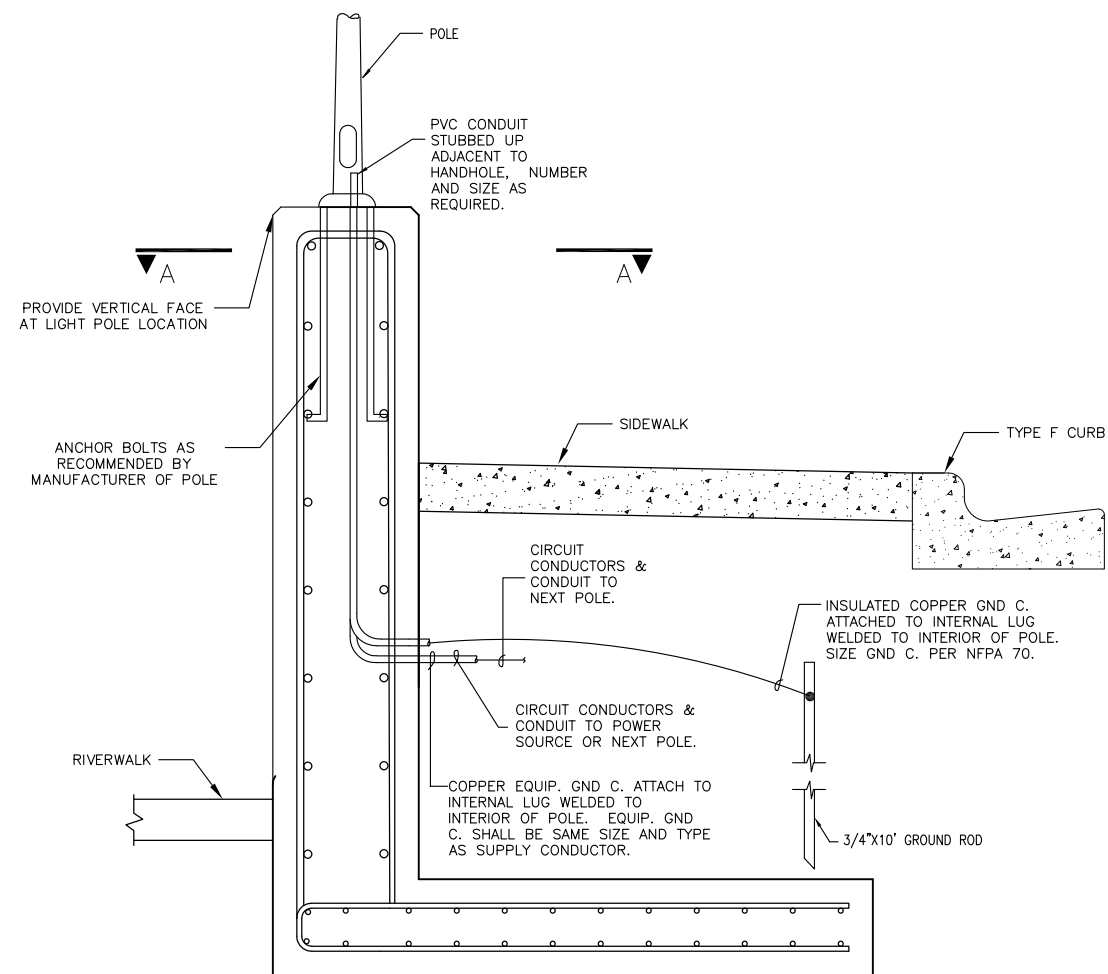
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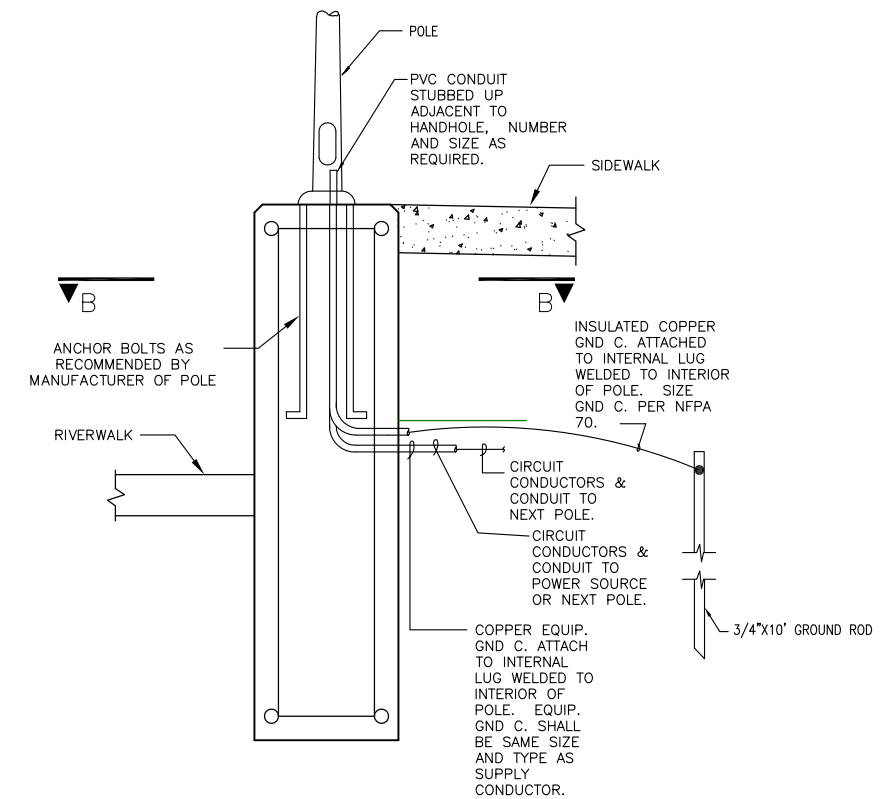
SECTION A-A
NTS



SECTION B-B
NTS



1 VEHICLE BARRIER WALL LIGHT POLE DETAIL
E505 SCALE: N.T.S. (SEE SITE CIVIL PLANS FOR DETAILS)



2 GRAVITY WALL LIGHT POLE DETAIL
E505 SCALE: N.T.S. (SEE SITE CIVIL PLANS FOR DETAILS)

Drawing Name: T:\Tampa Riverwalk Doyle Carlton\Drawings\E505-Details.dwg Last Modified: Jul 01, 2014 - 12:23pm Plotted on: Aug 29, 2014 - 11:15am by herman_gmaldonado

DRWN:				
DSGN:				
CHKD:				
APVD:				
DATE:	07/11/14			
JOB #:	12011325			
NO.	BY	DATE	DESCRIPTION	REVISIONS

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Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

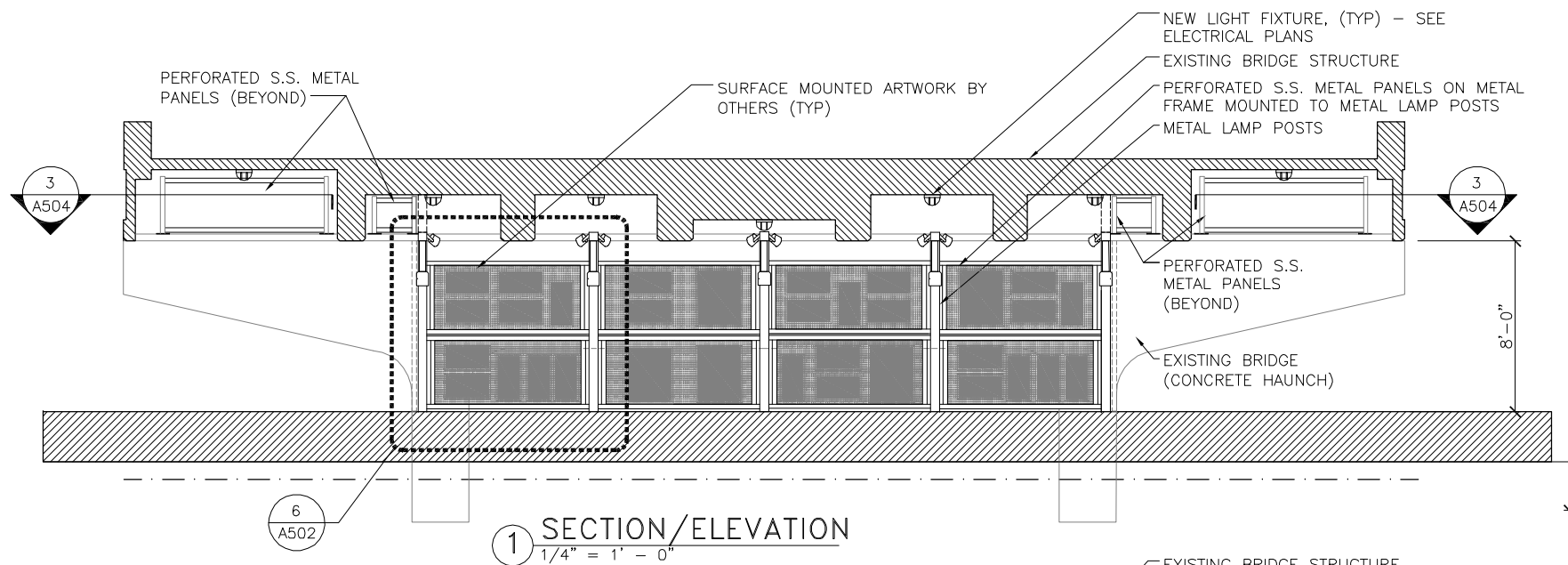
ELECTRICAL DETAILS 5 OF 5

Registered Professional
FL Reg No. Sign Date

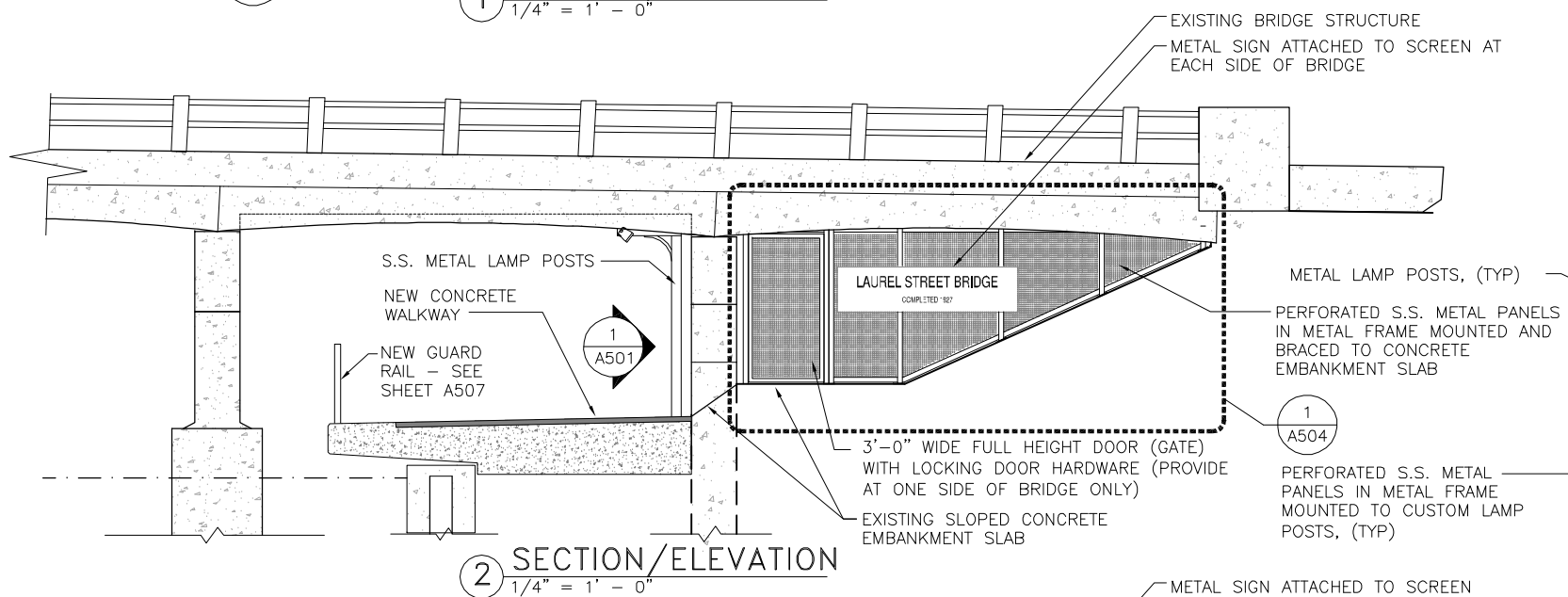
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print date:

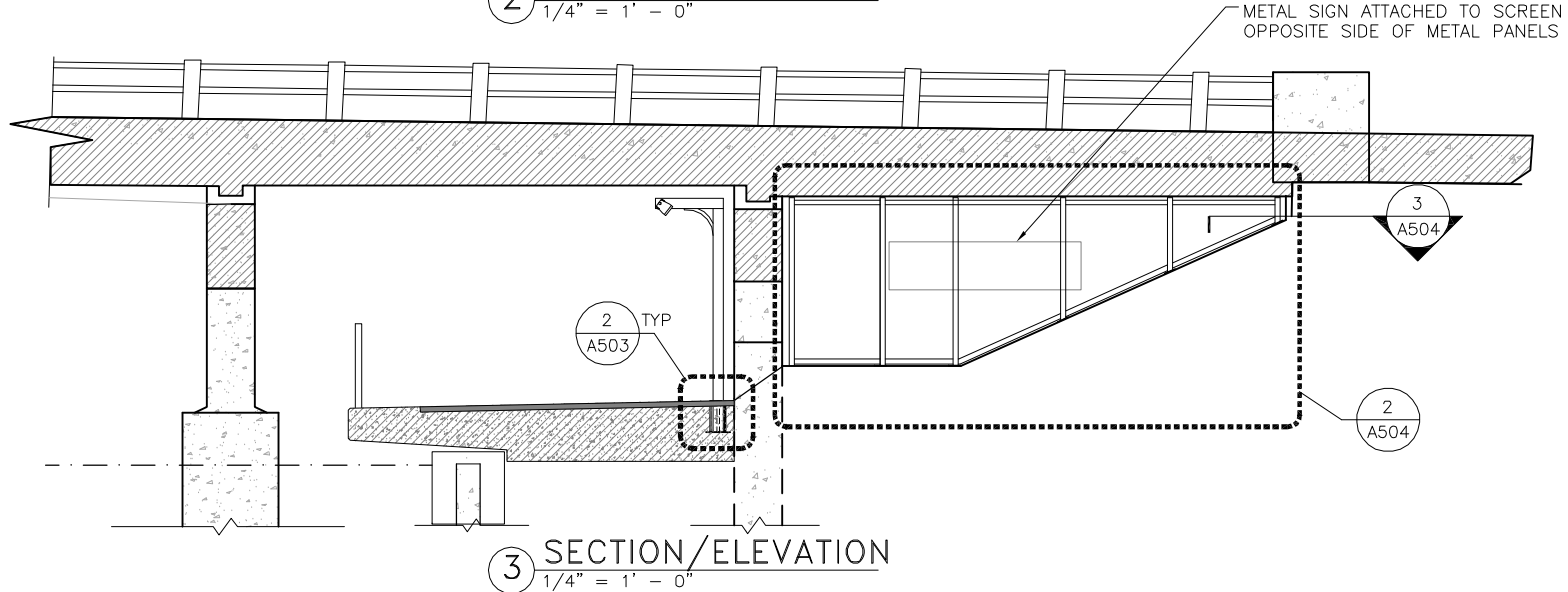
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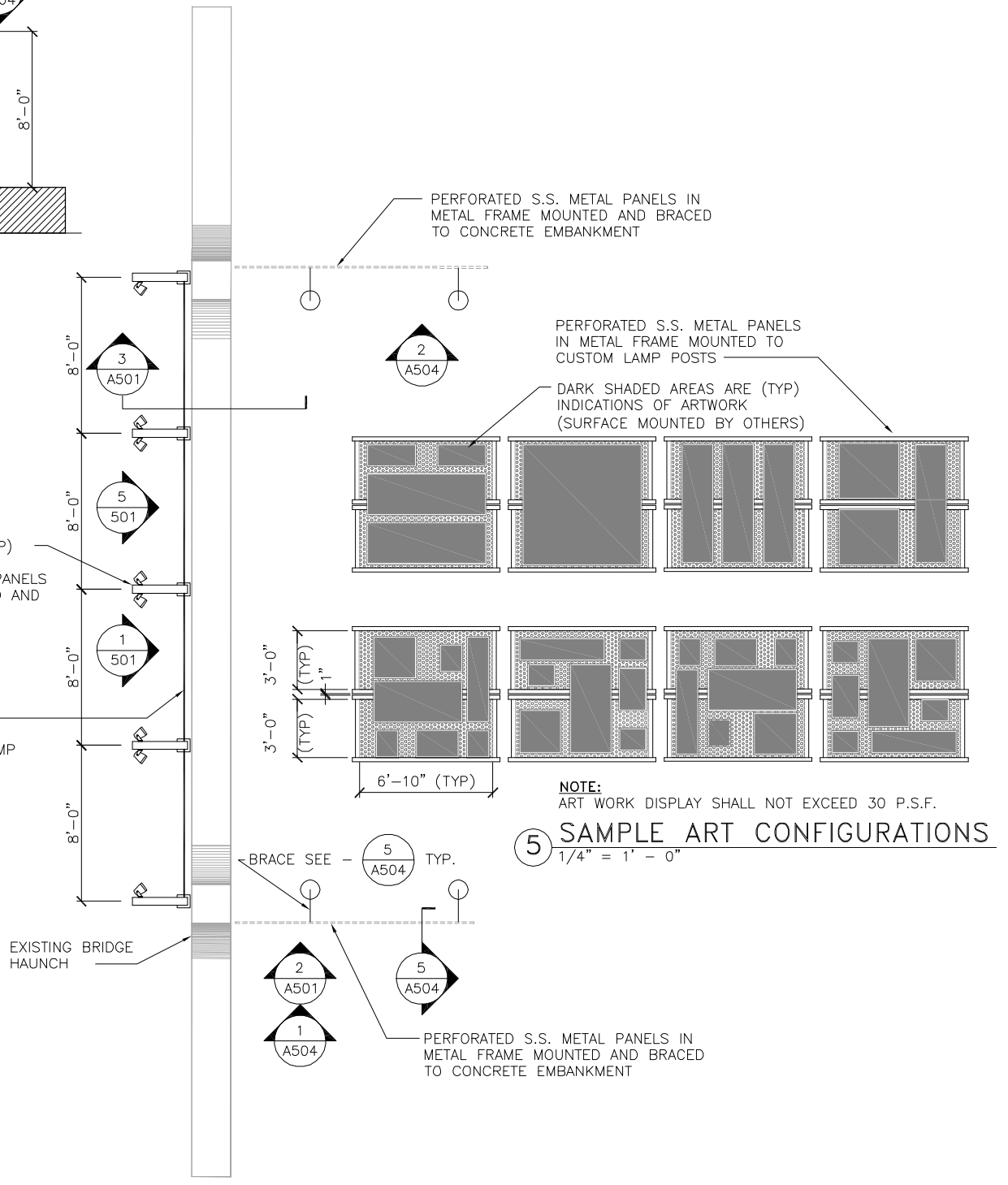
1 SECTION/ELEVATION
1/4" = 1' - 0"



2 SECTION/ELEVATION
1/4" = 1' - 0"



3 SECTION/ELEVATION
1/4" = 1' - 0"



4 SCREEN WALL PLAN
1/4" = 1' - 0"

NOTE:
PROVIDE SHOP DRAWINGS FOR METAL PANELS, STEEL SUPPORT FRAMING, METAL LAMP POSTS, METAL SIGNS, SHOWING FABRICATION AND INSTALLATION.

NOTE:
ART WORK DISPLAY SHALL NOT EXCEED 30 P.S.F.

5 SAMPLE ART CONFIGURATIONS
1/4" = 1' - 0"



NO.	BY	DATE	DESCRIPTION

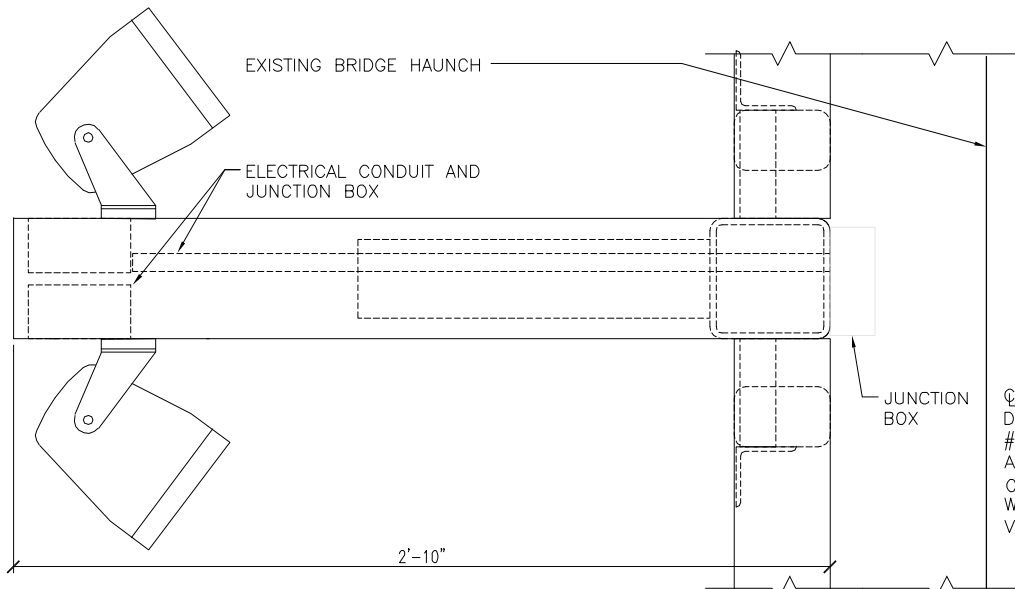
URS URS Corporation Southern
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FOR
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CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

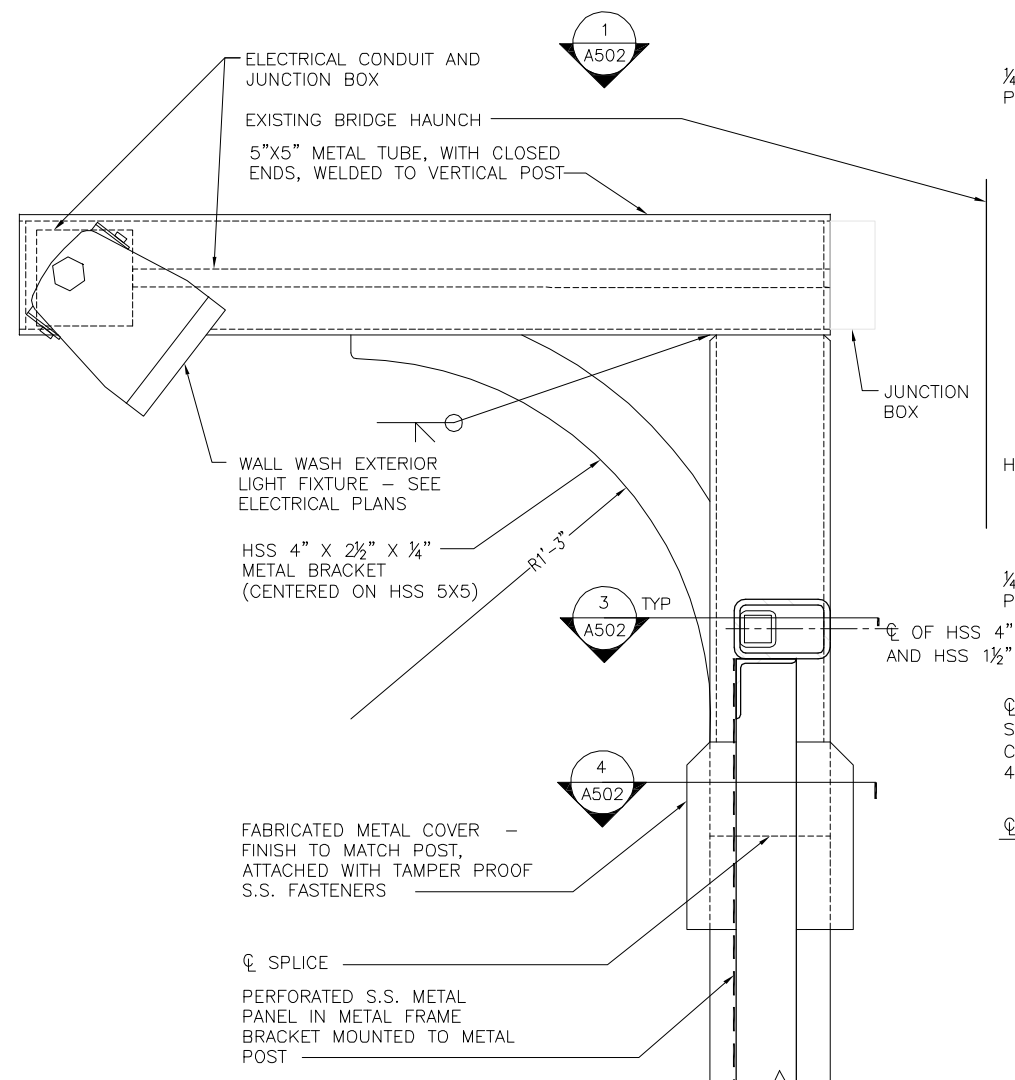
**SCREEN WALL DETAILS AT
LAUREL STREET BRIDGE**

A501

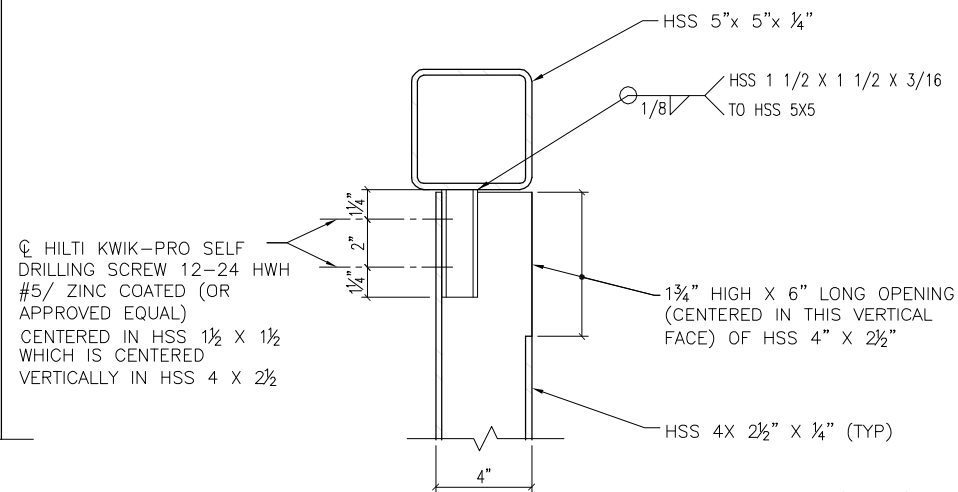
William H.S. Murray
Registered Professional
A.R. 00142833
F.L. Reg. No. Sign Date print date



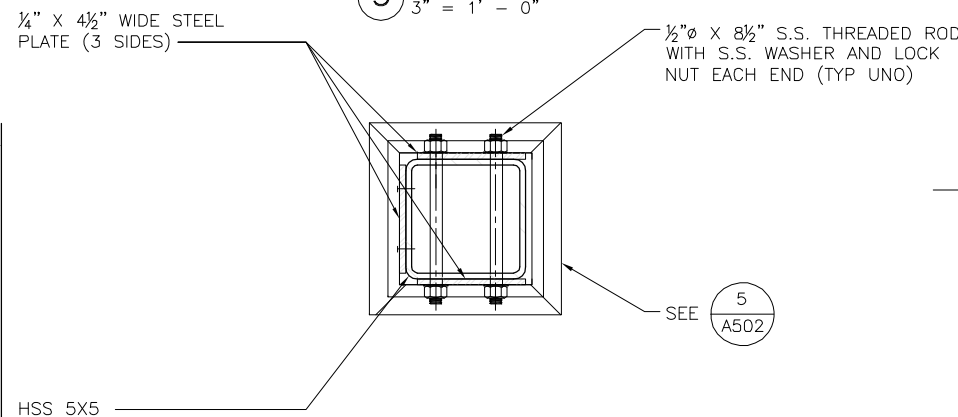
1 POST TOP VIEW
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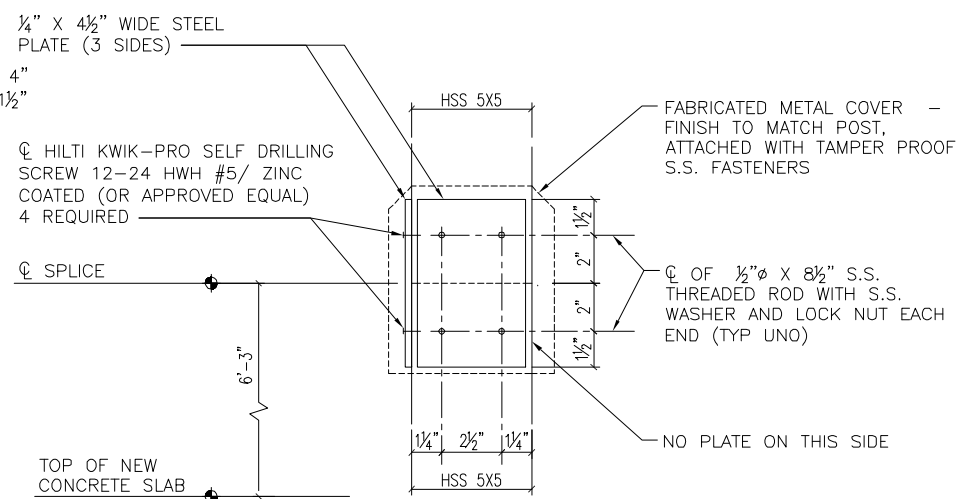
2 PARTIAL SECTION/ELEVATION
3" = 1' - 0"



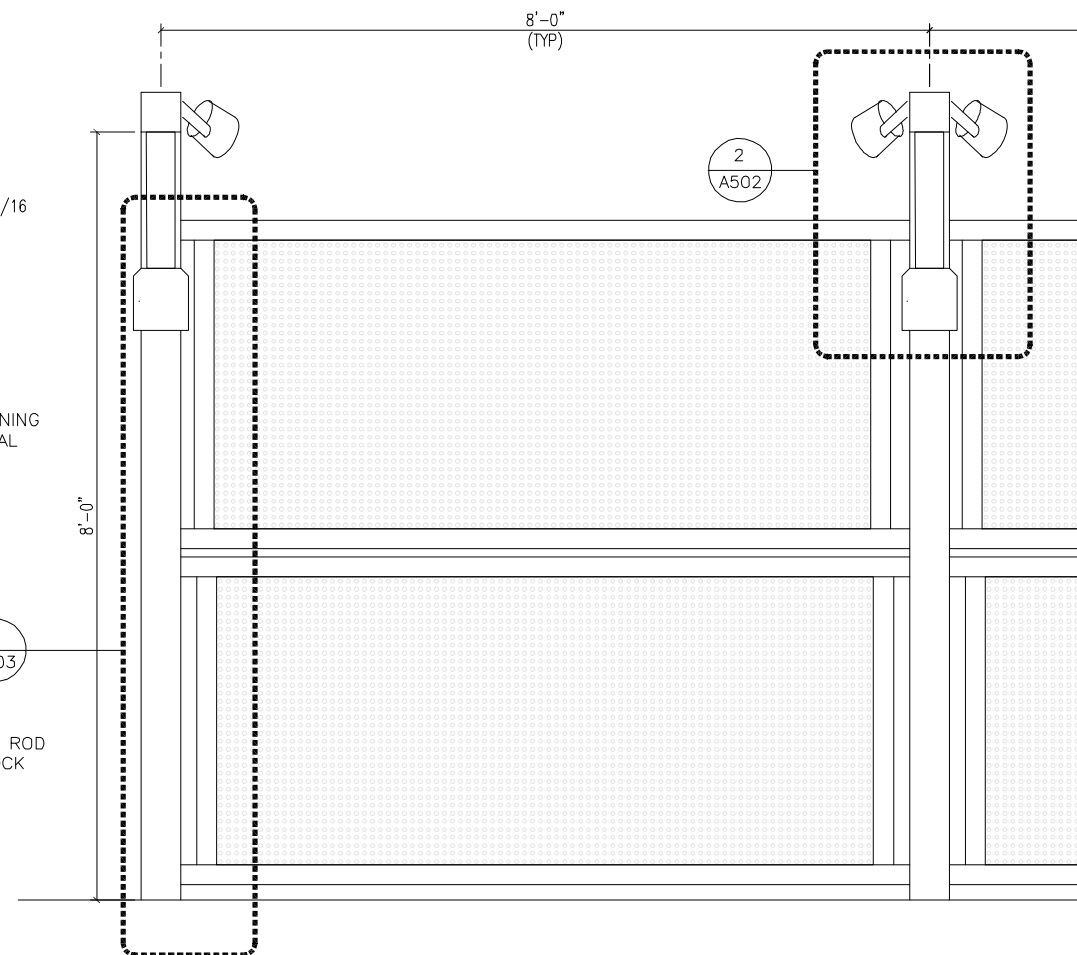
3 SECTION
3" = 1' - 0"



4 SECTION
3" = 1' - 0"



5 DETAIL
3" = 1' - 0"



6 PARTIAL ELEVATION
1" = 1' - 0"

NOTE:

ALL STEEL MATERIAL (EXCEPT FASTENERS) SHALL BE STAINLESS STEEL 316L.



Drawing Name: W:\City of Tampa\Riverwalk\Working-Tech\Drawings\Screen wall\Screen wall details.dwg Last Modified: Jul 07, 2014 - 10:57am by brant_coburn

NO.	BY	DATE	DESCRIPTION

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Engineering Business No. 00000002

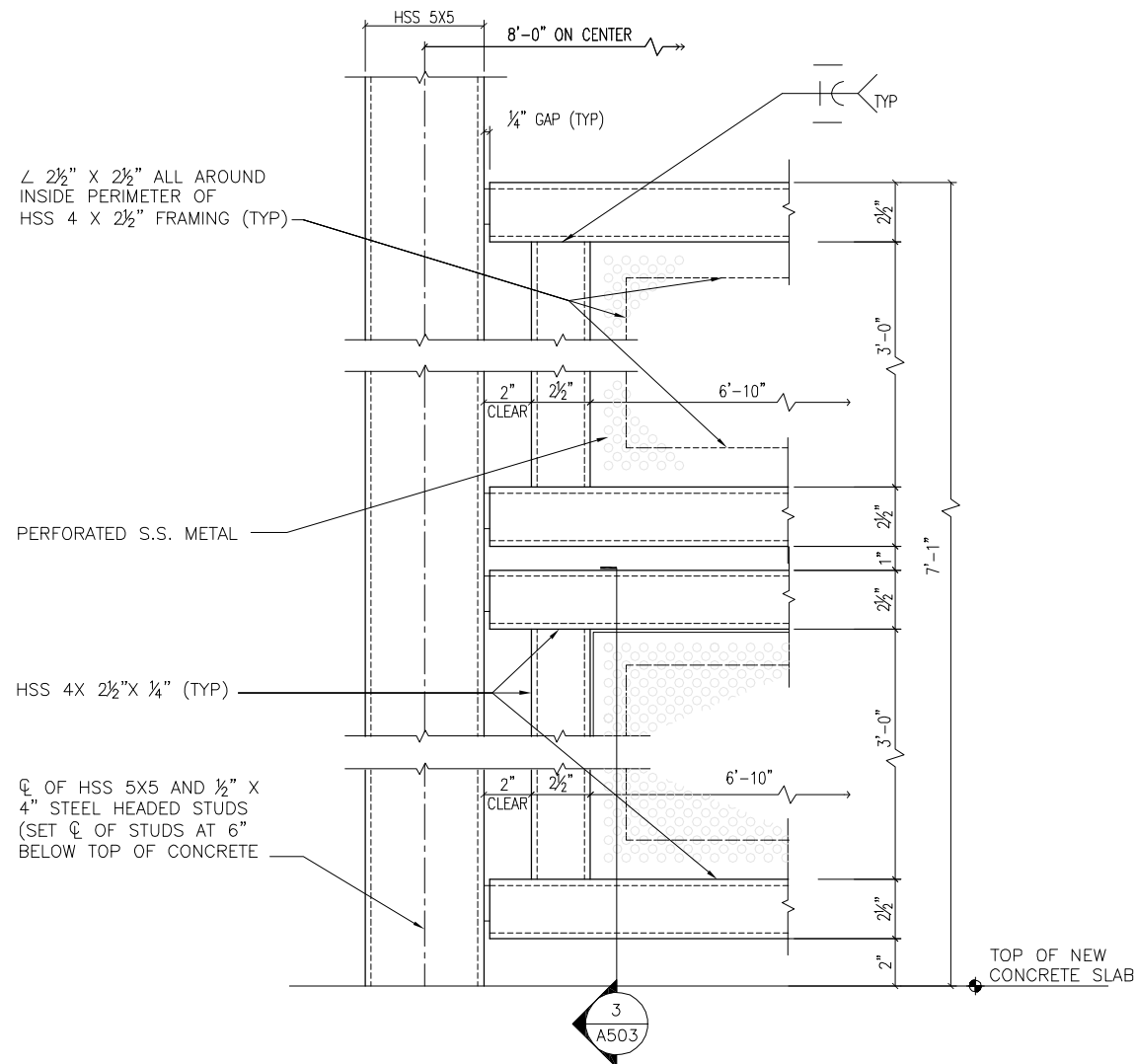
TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

SCREEN WALL DETAILS

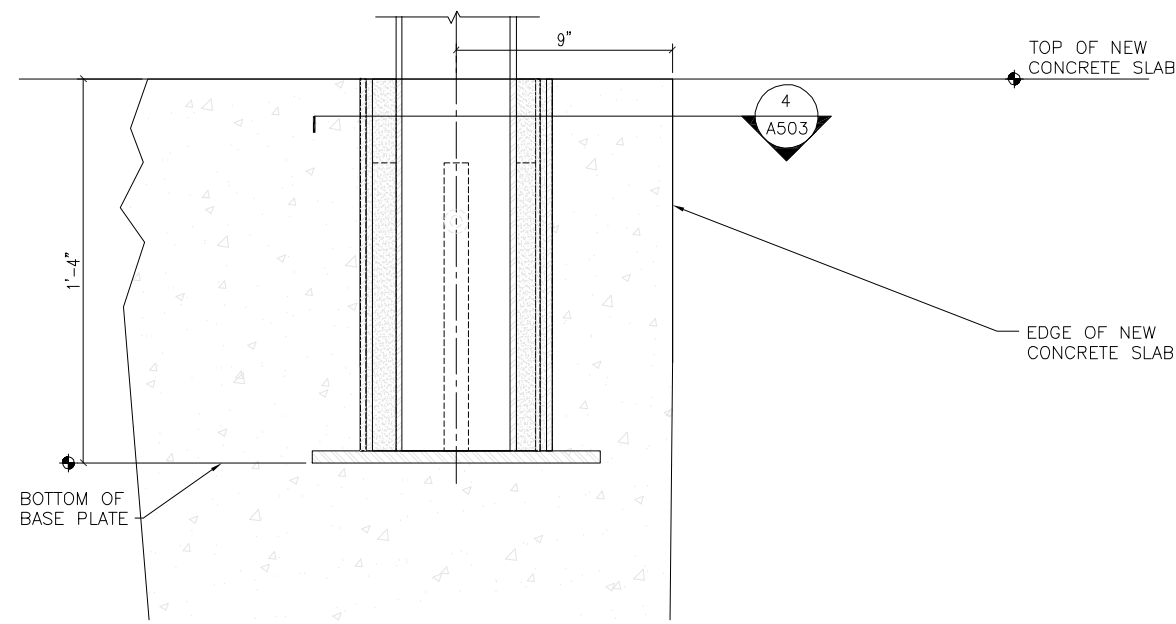
William H.S. Murray
Registered Professional
A.R. 0014555
FL Reg No. Sign Date

A502

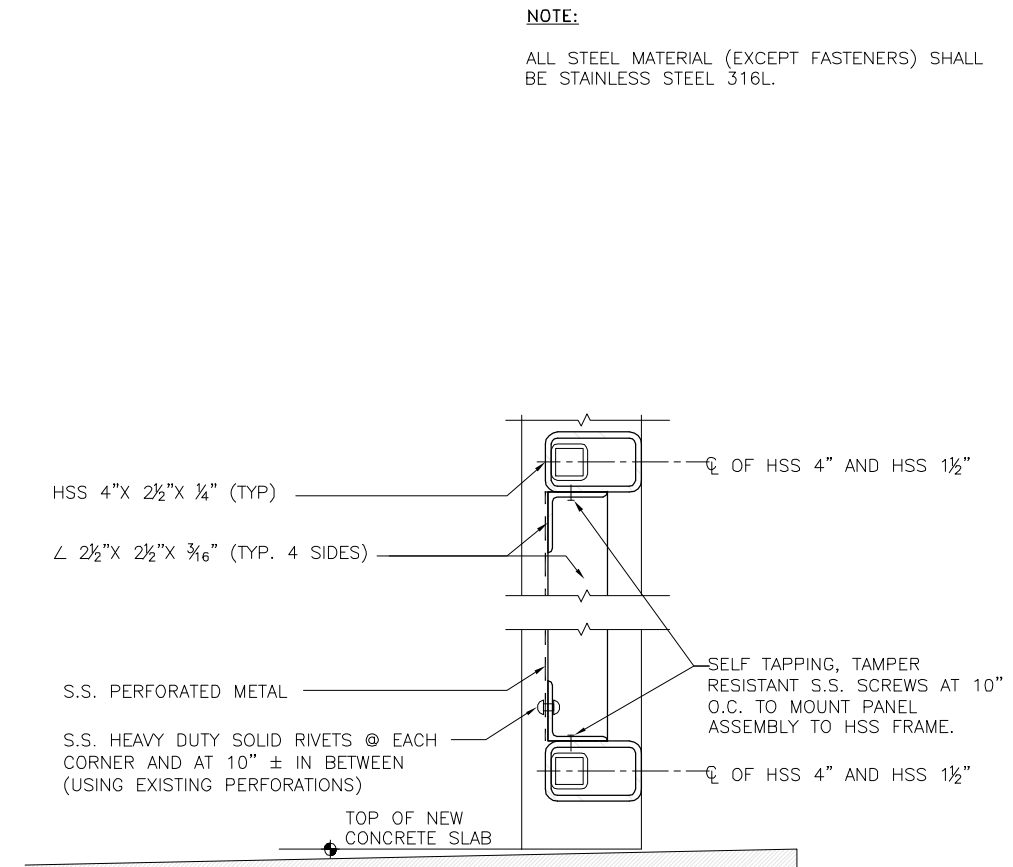
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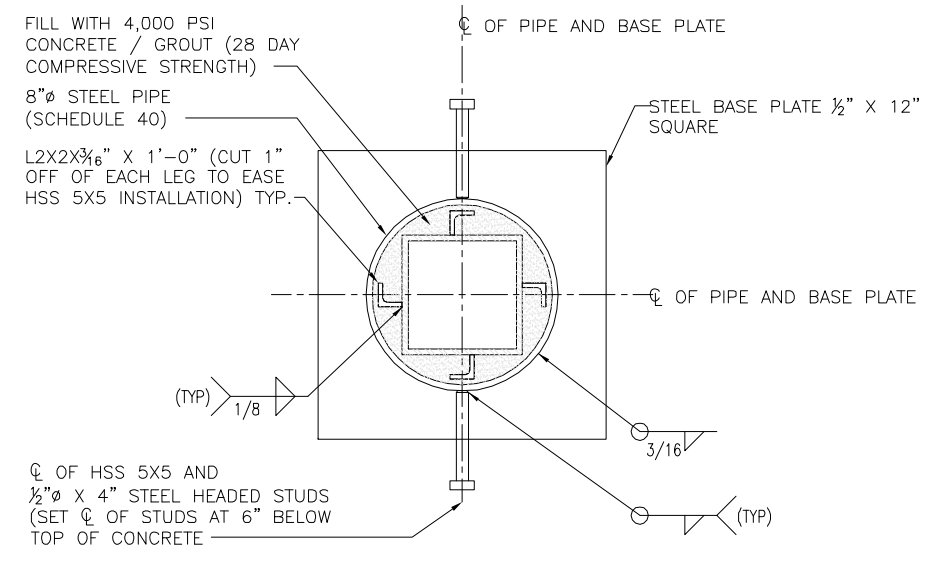
1 DETAIL
3" = 1' - 0"



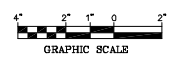
2 DETAIL
3" = 1' - 0"



3 SECTION
3" = 1' - 0"



4 SECTION
3" = 1' - 0"



Drawing Name: W:\City of Tampa\Riverwalk\Working-Tech\Drawings\Screen Wall\A503.dwg Last Modified: Jul 07, 2014 - 12:05pm Plotted on: Aug 27, 2014 - 10:58am by brant_coburn

NO.	BY	DATE	DESCRIPTION

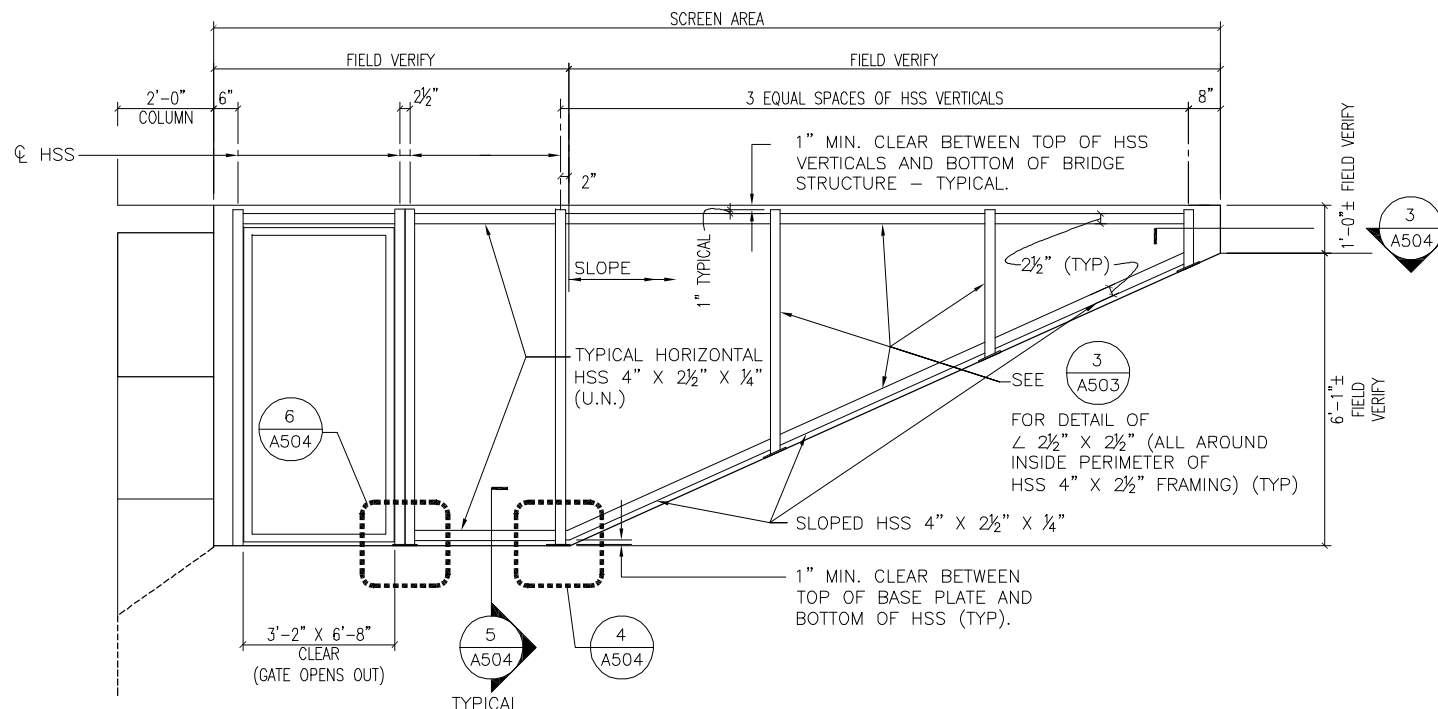
URS
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 7650 W. Courtney Campbell Cswy.
 Tampa, Florida 33607 (813) 286-1711
 Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
 FOR
CITY OF TAMPA
 CONTRACT NO. 14-C-00033
 CONTRACT ADMINISTRATION

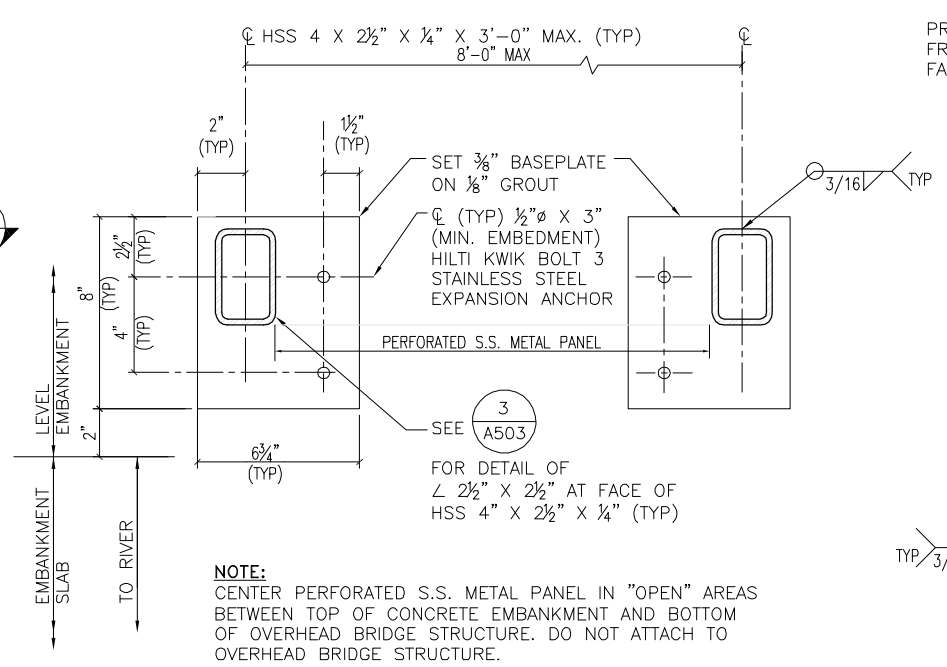
SCREEN WALL DETAILS

William H.S. Murray
 Registered Professional
 A.R. 0014355
 FL Reg No. Sign Date print date

A503

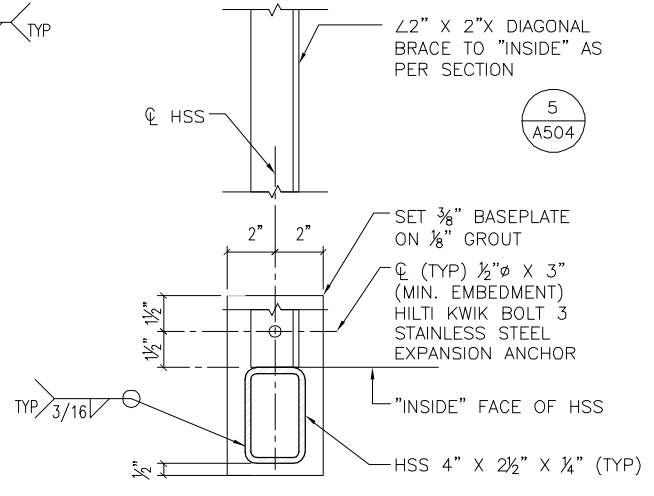


1 ELEVATION - VIEWED FROM OUTSIDE
1/2" = 1' - 0"

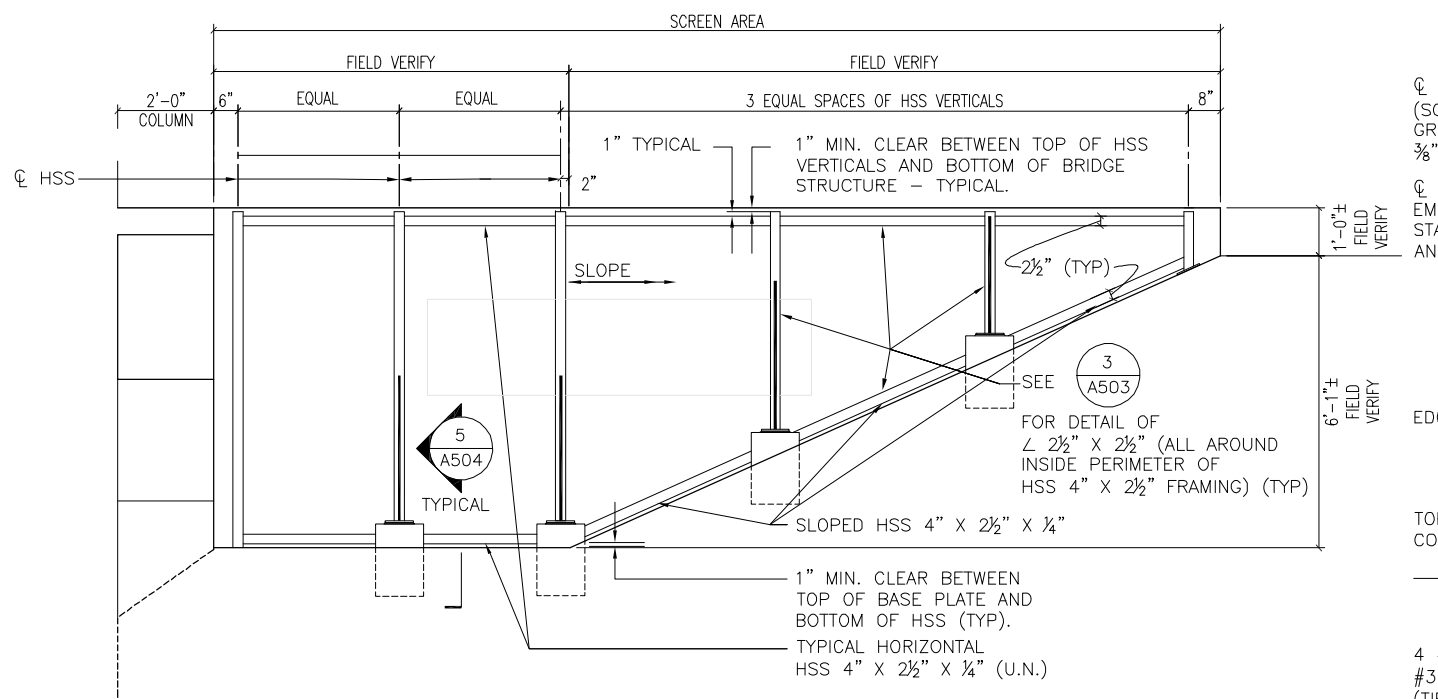


3 SECTION
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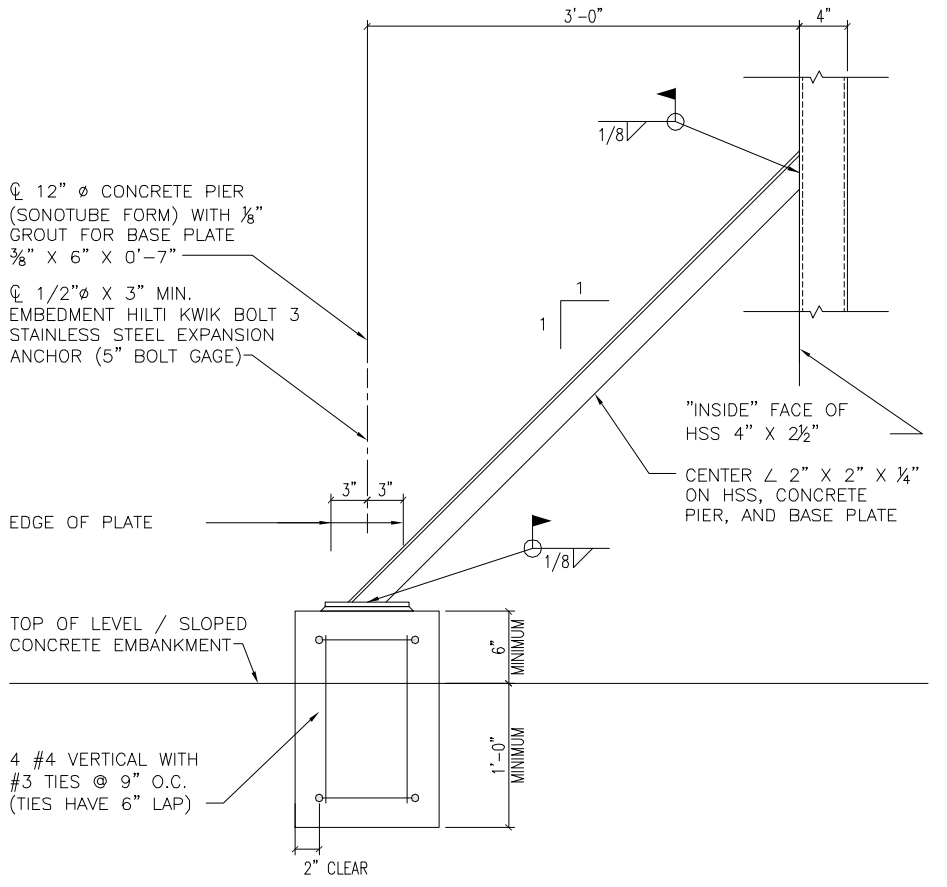
NOTE:
PROVIDE SHOP DRAWINGS FOR METAL PANELS, STEEL SUPPORT FRAMING, METAL LAMP POSTS, METAL SIGNS, SHOWING FABRICATION AND INSTALLATION.



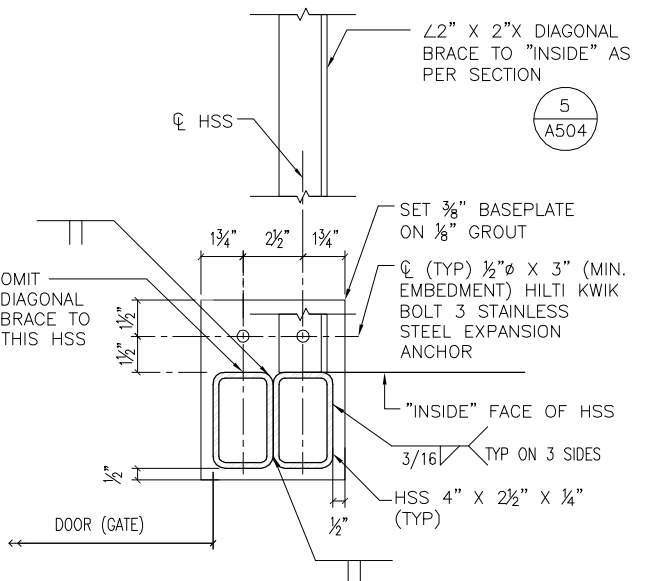
4 DETAIL
NTS



2 ELEVATION - VIEWED FROM INSIDE
1/2" = 1' - 0"

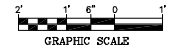


5 BRACE/SECTION
NTS



6 DETAIL
NTS

NOTE:
ALL STEEL MATERIAL SHALL BE STAINLESS STEEL 316L.



Drawing Name: W:\City of Tampa\Riverwalk\Working-Tech\Drawings\Screen wall details at Laurel Street Bridge.dwg Last Modified: Aug 27, 2014 - 10:58am Printed on: Aug 27, 2014 - 11:00am by brnt.lachman

DRWN:			
DSGN:			
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APPD:			
DATE:	07/11/14		
NO.	BY	DATE	DESCRIPTION
REVISIONS			

URS URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 286-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

SCREEN WALL DETAILS AT
LAUREL STREET BRIDGE

A504
William H.S. Murray
Registered Professional
AR 0014293
FL Reg No. Sign Date

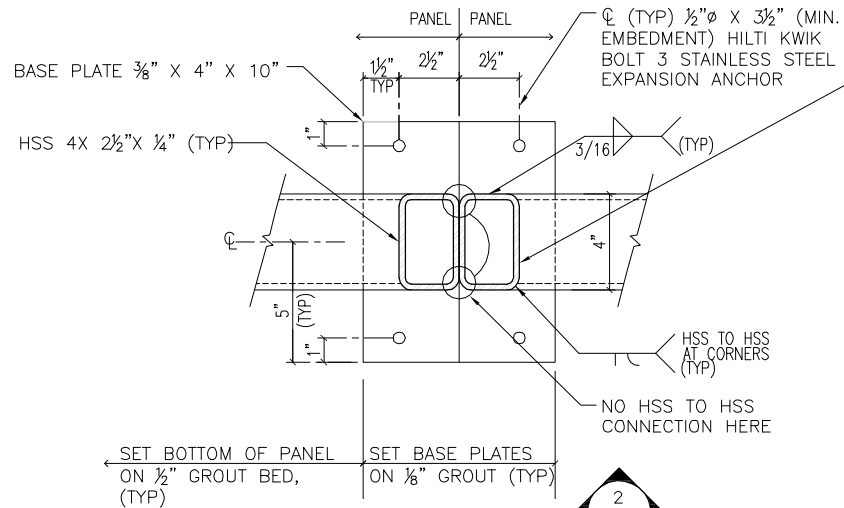
NOTE:

PROVIDE SHOP DRAWINGS FOR METAL PANELS, STEEL SUPPORT FRAMING, METAL LAMP POSTS, METAL SIGNS, SHOWING FABRICATION AND INSTALLATION.

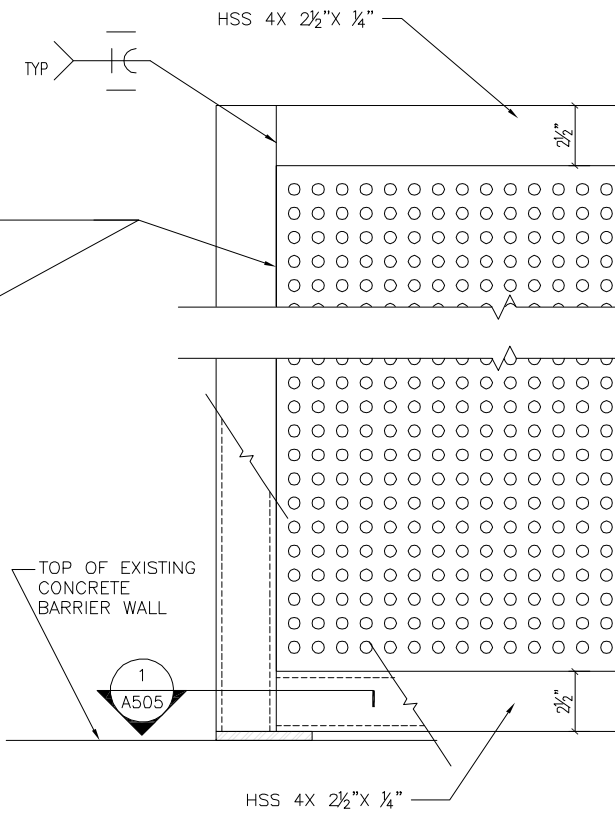
ALL STEEL MATERIAL (EXCEPT FASTENERS) SHALL BE STAINLESS STEEL 316L.

SEE **3**
A503

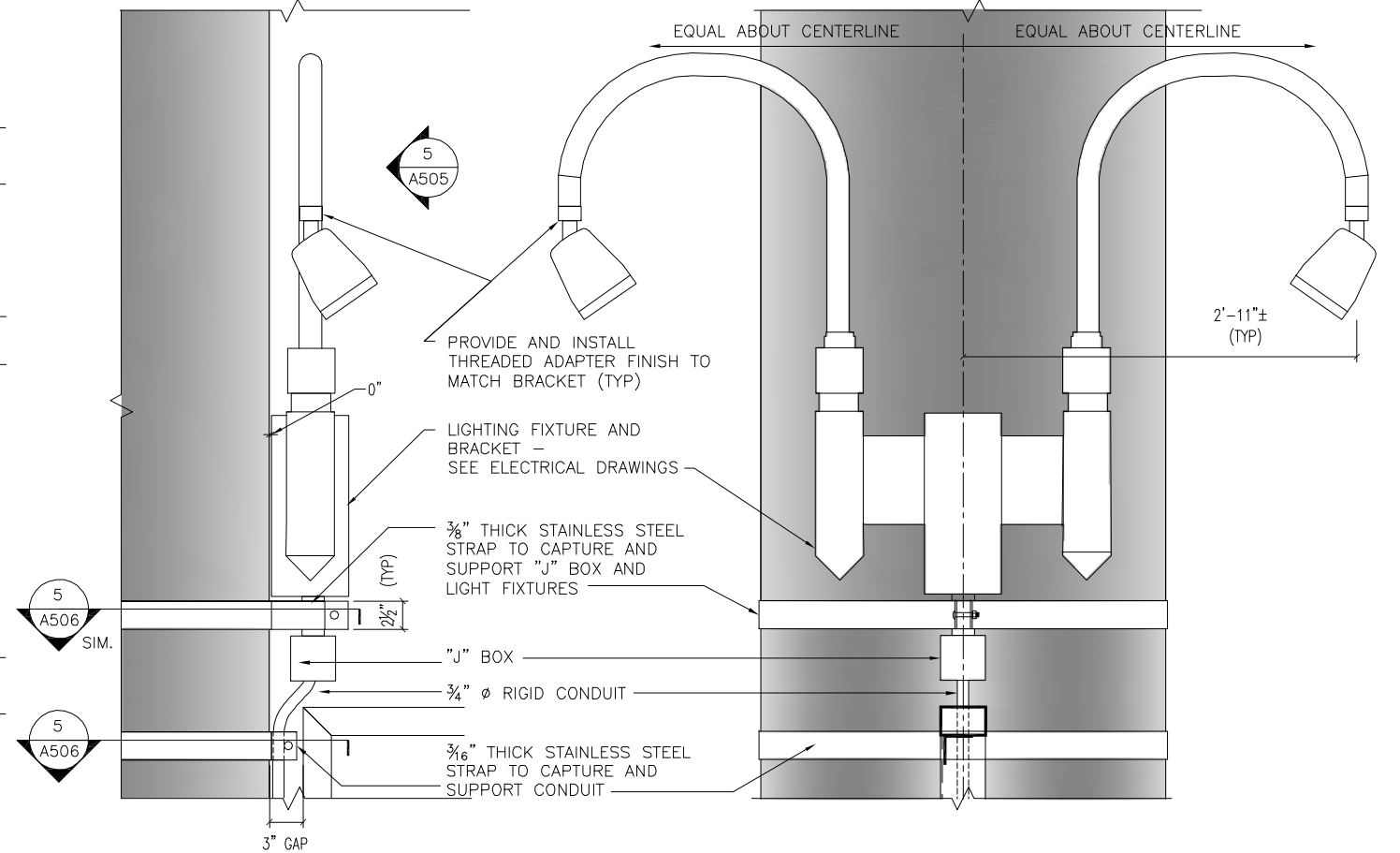
FOR DETAIL OF $\angle 2\frac{1}{2}'' \times 2\frac{1}{2}''$
(ALL-AROUND INSIDE PERIMETER
OF HSS $4 \times 2\frac{1}{2}''$ FRAMING)



1 SECTION
3\"/>

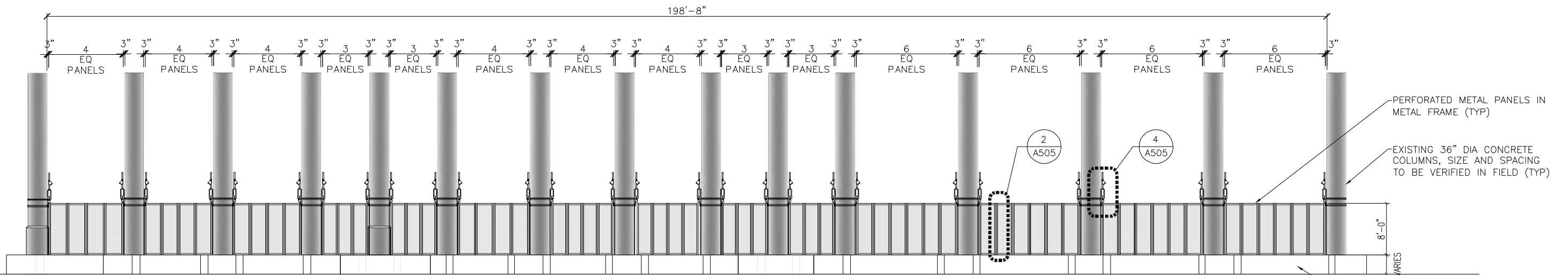


2 DETAIL
3\"/>

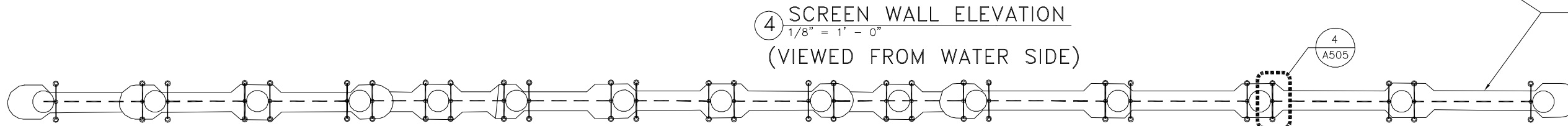


4 DETAIL
1 1/2\"/>

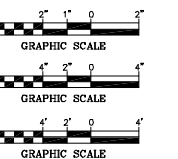
5 DETAIL
1 1/2\"/>



4 SCREEN WALL ELEVATION
1/8\"/>



3 SCREEN WALL PLAN
1/8\"/>



Drawing Name: W:\City of Tampa\Riverwalk\Working\Tech Drawings\Screen wall\14-C-00033-14-C-00033.dwg Last Modified: Aug 27, 2014 - 10:58am Plotted on: Aug 27, 2014 - 11:02am by brnt.lachman

NO.	BY	DATE	DESCRIPTION

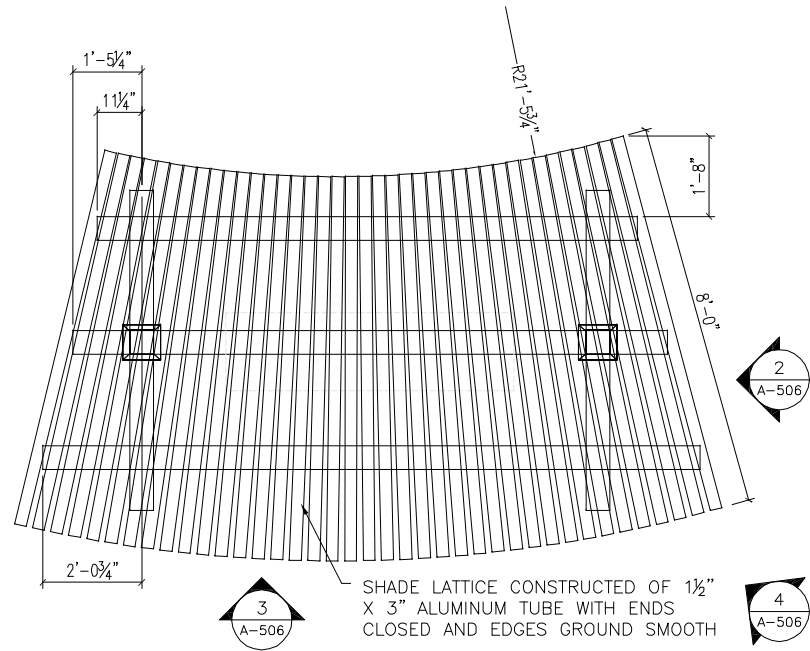
URS
URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 286-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

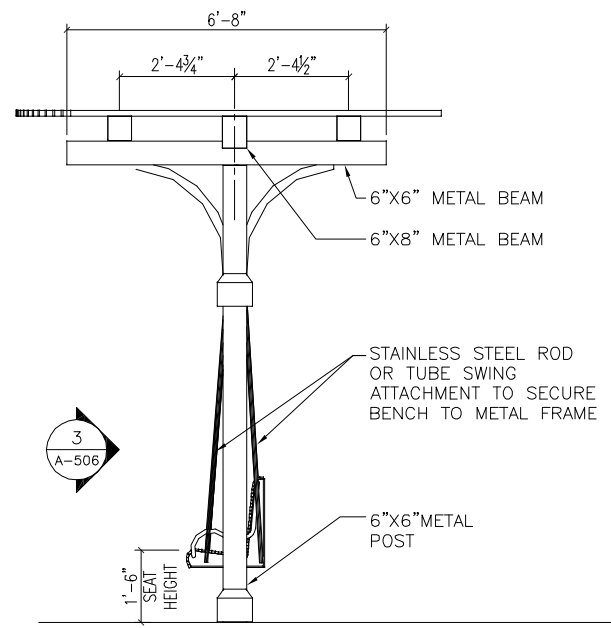
SCREEN WALL DETAILS AT I-275 OVERPASS

William H.S. Murray
Registered Professional
A.P. 0014355
FL Reg. No. Sgn Date

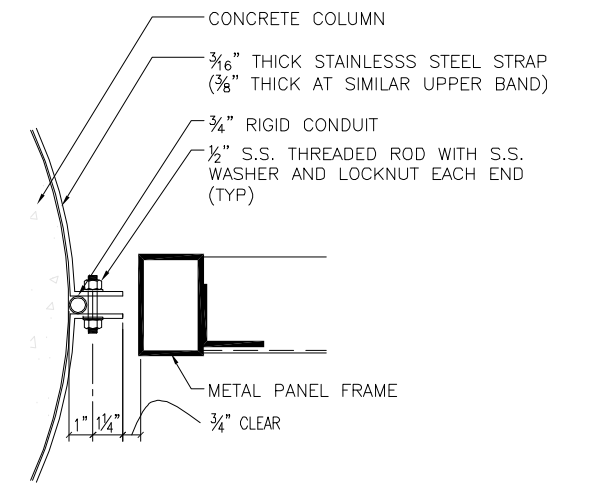
A505



1 BENCH SWING PLAN
1/2" = 1' - 0"

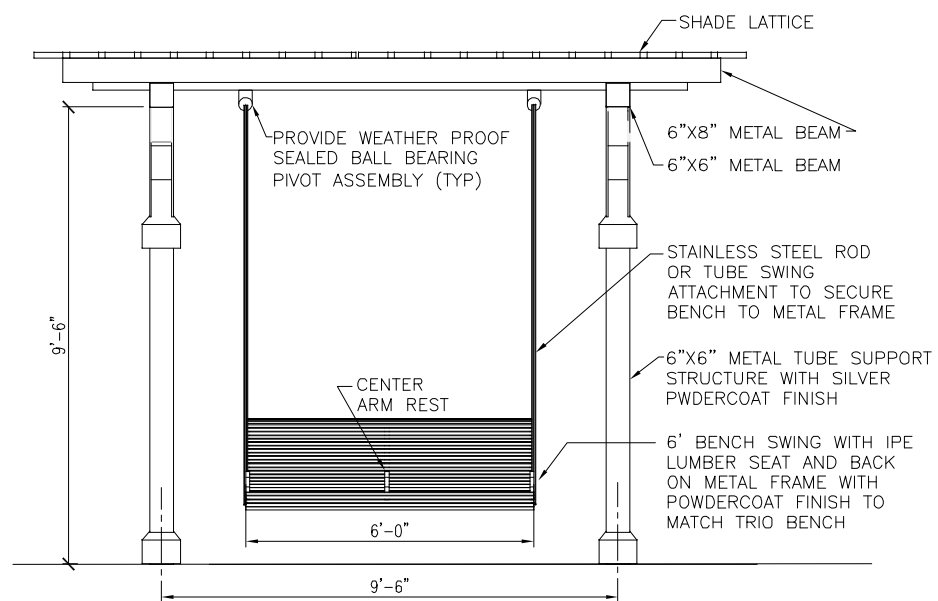


2 BENCH SWING ELEVATION
1/2" = 1' - 0"



5 STAINLESS STEEL STRAP DETAIL
3" = 1' - 0"

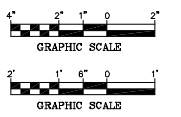
NOTE:
SEE ARCHITECTURAL PERFORMANCE SPECIFICATIONS
FOR ADDITIONAL BENCH SWING INFORMATION



3 BENCH SWING ELEVATION
1/2" = 1' - 0"



4 BENCH SWING PERSPECTIVE
NTS



Drawing Name: W:\City of Tampa\Riverwalk\Working-Tech\Tech Drawings\Layout sheet bldgs.dwg Last Modified: Aug 27, 2014 - 10:58am Plotted on: Aug 27, 2014 - 11:02am by brnt.lachran

NO.	BY	DATE	DESCRIPTION

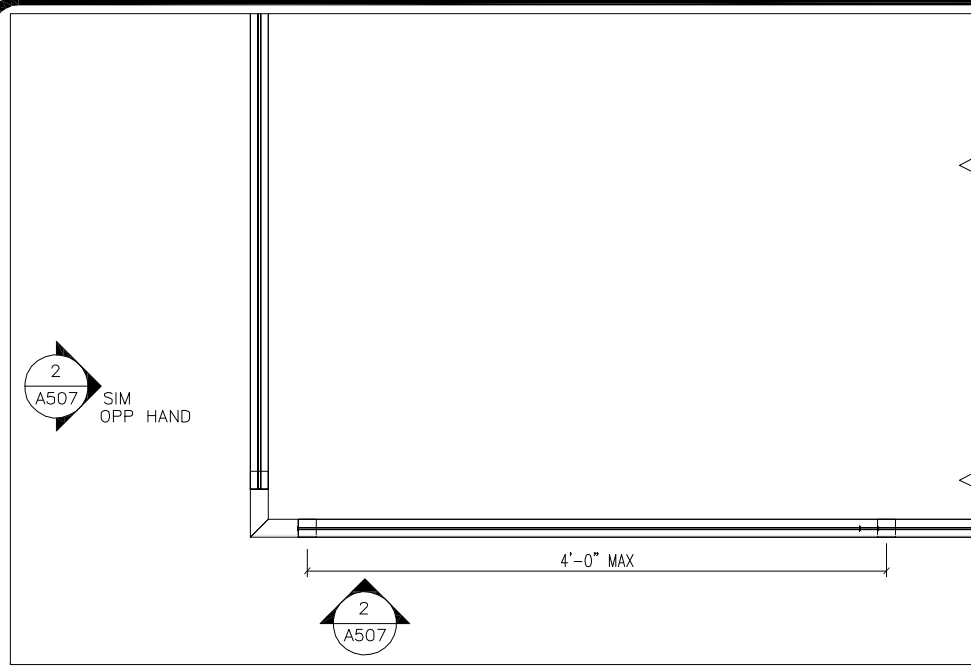
URS
URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 286-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

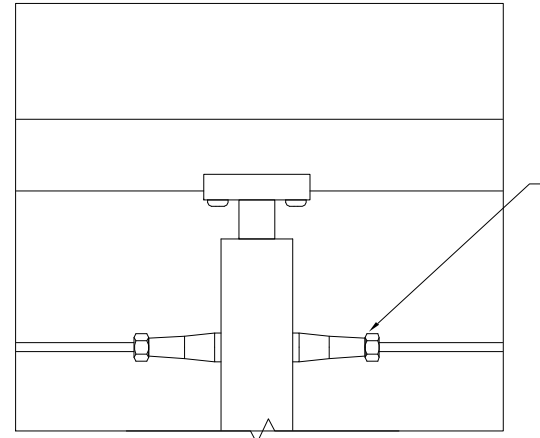
BENCH SWING DETAILS

William H.S. Murray
Registered Professional
A.P. 0014383
FL Reg No. Sign Date

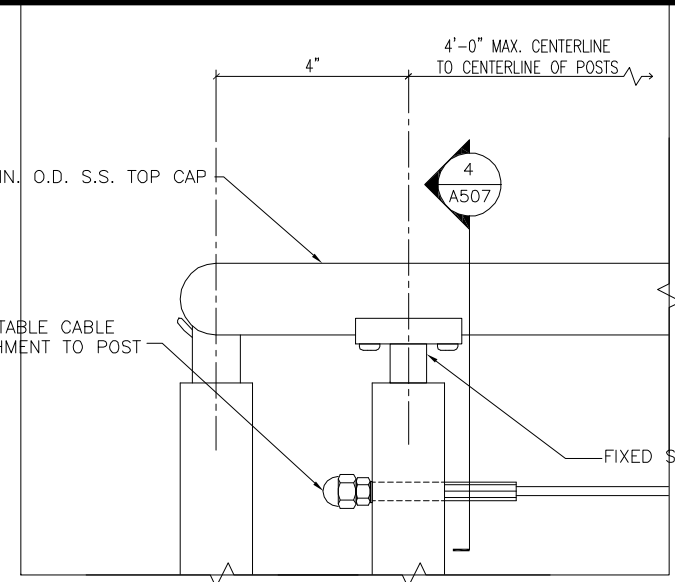
A506



1 GUARD RAILING PARTIAL PLAN
1 1/2" = 1' - 0"



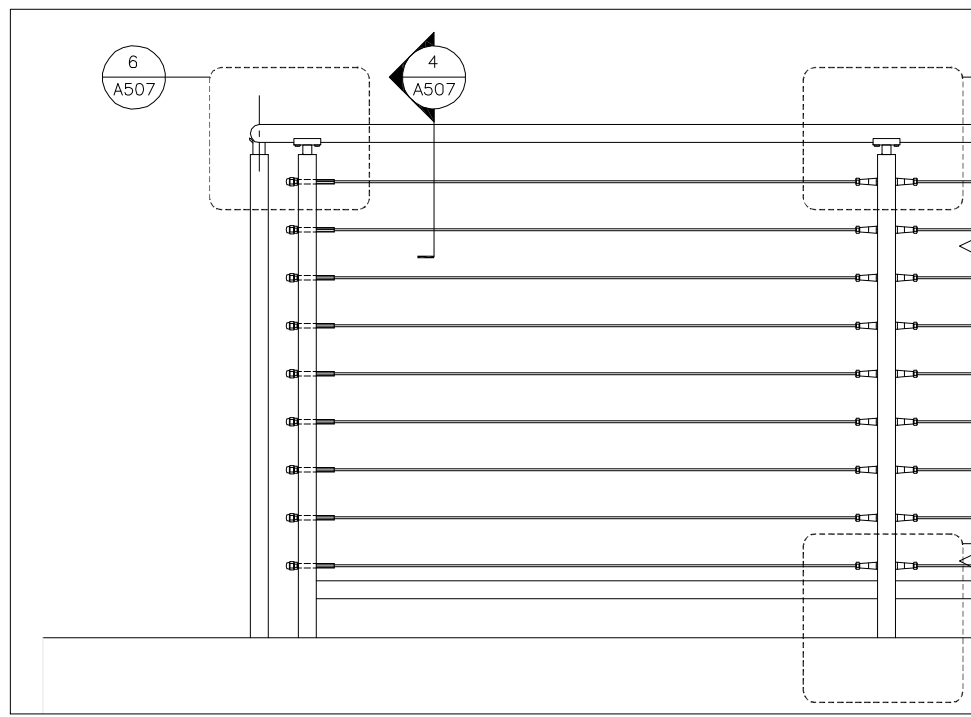
3 GUARD RAILING DETAIL
1 1/2" = 1' - 0"



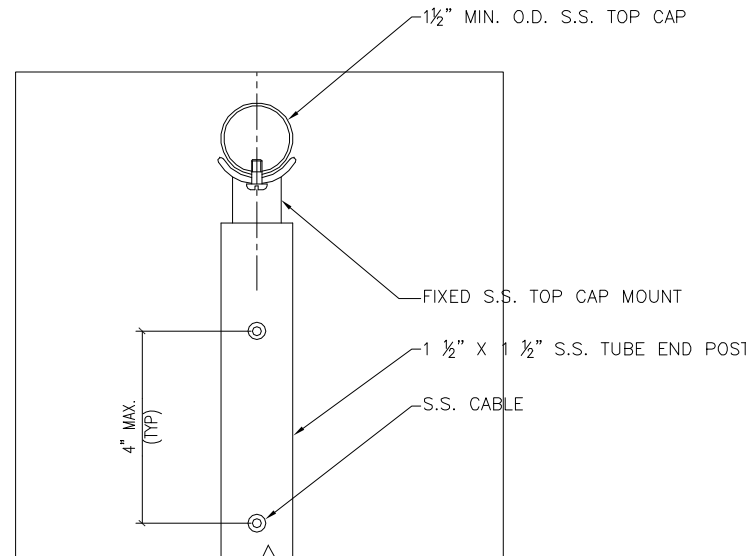
6 GUARD RAILING DETAIL
1 1/2" = 1' - 0"

GENERAL NOTE:

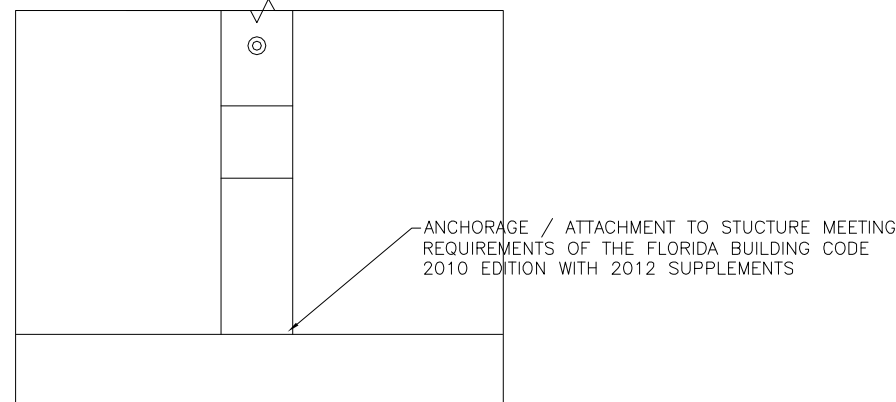
SUBMIT STRUCTURAL CALCULATIONS FOR RAILING SYSTEM, PREPARED BY OR UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA, SHOWING COMPLIANCE WITH THE HANDRAIL DESIGN PROVISIONS OF THE FLORIDA BUILDING CODE (2010 EDITION WITH 2012 SUPPLEMENTS). SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW.



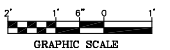
2 GUARD RAILING ELEVATION
1 1/2" = 1' - 0"



4 GUARD RAILING DETAIL
1 1/2" = 1' - 0"



5 GUARD RAILING BASE DETAIL
1 1/2" = 1' - 0"



Drawing Name: W:\City of Tampa\Riverwalk\Working-Tech Drawings\Guard street bridge.dwg Last Modified: Aug 27, 2014 - 10:58am Plotted on: Aug 27, 2014 - 10:58am by brnt.lachran

DRWN:				
DSGN:				
CHKD:				
APPD:				
DATE:	07/11/14			
NO.	BY	DATE	DESCRIPTION	
REVISIONS				

URS
URS Corporation Southern
7650 W. Courtney Campbell Cswy.
Tampa, Florida 33607 (813) 286-1711
Engineering Business No. 00000002

TAMPA RIVERWALK - DOYLE CARLTON SEGMENT
FOR
CITY OF TAMPA
CONTRACT NO. 14-C-00033
CONTRACT ADMINISTRATION

GUARD RAILING "BASIS OF DESIGN" DETAILS

William H.S. Murray
Professional Professional
A.R. 0014353
FL Reg No. Sign Date

A507

print date: