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**Please Email ALL Questions:**  
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# CITY of TAMPA

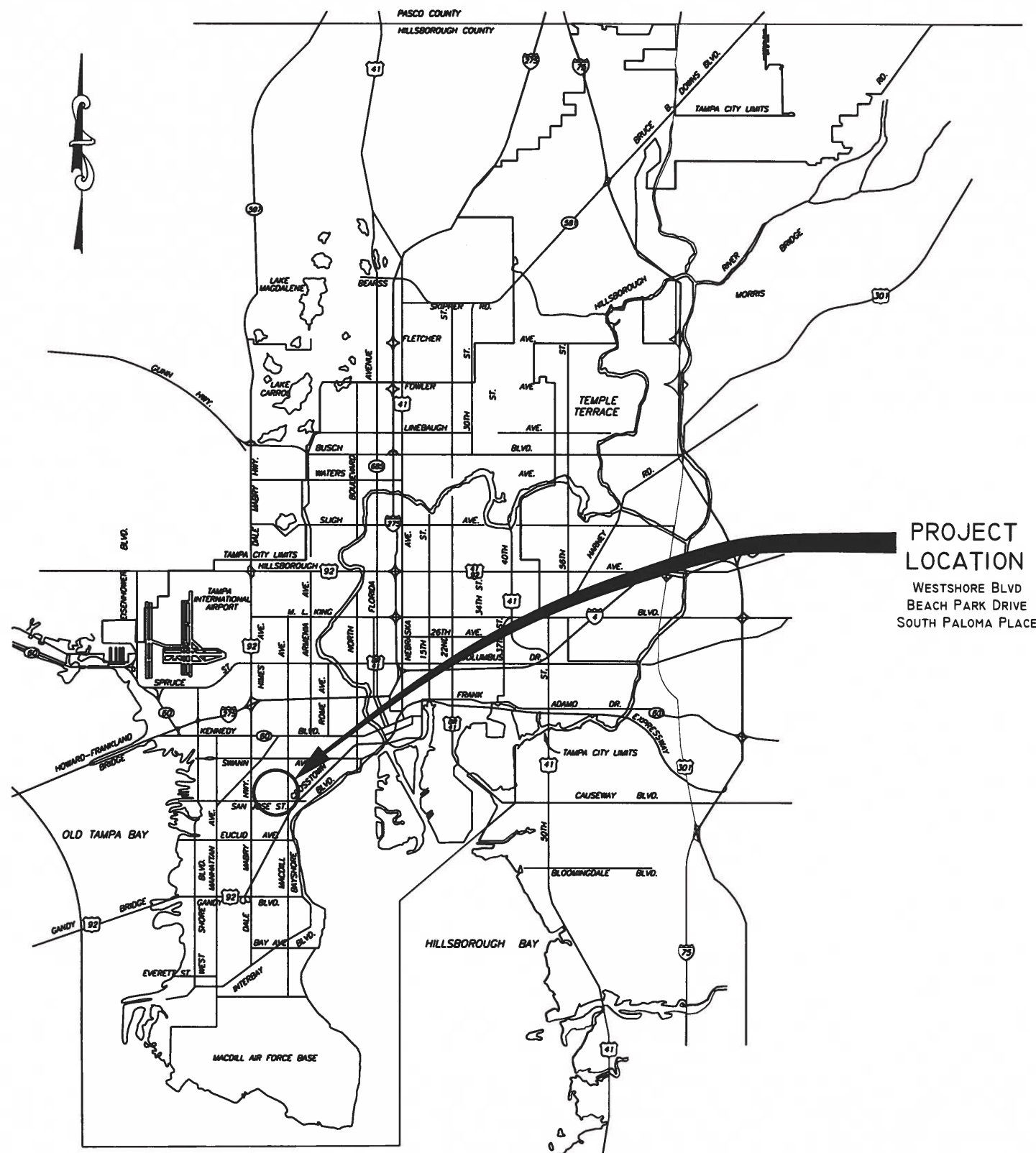


## MOBILITY DEPARTMENT STORMWATER ENGINEERING DIVISION

PLANS FOR

## BEACH PARK STORMWATER IMPROVEMENTS

CONTRACT No. 21-C-00017



PLOT DATE: 11/15/2021, April 24, 2021

*Richard Alfred Hoel*  
RICHARD ALFRED HOEL, P.E. #41026  
CHIEF ENGINEER

DES: Y.P.  
DRN: BB  
CKD: BB  
DATE: 4-2021

No.	DATE	REVISIONS
3		
2		
1		

CITY of TAMPA  
Mobility Department  
Stormwater Engineering Division

COVER SHEET

SHEET  
1  
OF 21

LEGEND

EX STORMWATER

FORCE MAIN

PIPES & MANHOLES

CATCH BASIN, GRATE

DITCHES, SWALES

PROP STORMWATER

FORCE MAIN

PIPES & MANHOLES

OTHER UTILITIES

SAN SEWER & MANHOLES

WATER LINE

GAS LINE

ELECTRICAL CABLE or DUCT

TELEPHONE CABLE or DUCT

TV CABLE

VALVE

HYDRANT

CLEAN OUT

EXISTING WYE

POWER POLE

TELEPHONE POLE

GUY POLE

GUY WIRE

VALVE VAULT

WATER METER

ELECTRICAL MANHOLE or VAULT

TELEPHONE MANHOLE or VAULT

TRAFFIC BOX or VAULT

OTHER FEATURES

RIGHT of WAY LINE

EDGE of PAVEMENT

BUILDING LIMIT

PROPERTY OWNERSHIP

FENCE

CONIFER

PALM

OAK

OTHER

SHRUB

HEDGE

RAILROAD TRACKS

IRON PIPE

CONCRETE MONUMENT

UP to 18"  
& SMALLER

24" & LARGER

ABBREVIATIONS

TOP of PIPE

INVERT ELEVATION

RIGHT of WAY

MANHOLE

POLYVINYL CHLORIDE PIPE

VITRIFIED CLAY PIPE

ADVANCED DRAINAGE SYSTEM

DUCTILE IRON PIPE

REINFORCED CONCRETE PIPE

CONCRETE PIPE

APPROXIMATE LOCATION

BENCH MARK

POINT of INTERSECTION

TP

IE or INV EL

R/W

MH

PVCP

VCP

ADS

DIP

RCP

CP

AL

BM

PI

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PLAN VIEW - WEST SHORE BLVD. STA. 0+00 - 2+50

7

PROFILE - WEST SHORE BLVD. STA. 0+00 - 2+50

8

PLAN VIEW - WEST SHORE BLVD. STA. 2+50 - 5+00

9

PROFILE - WEST SHORE BLVD. STA. 2+50 - 5+00

10

PLAN VIEW - BEACH PARK DR. STA. 20+00 - 22+00

11

PROFILE - BEACH PARK DR. STA. 20+00 - 22+00

12

PLAN VIEW - BEACH PARK DR. STA. 22+00 - 23+83

13

PROFILE - BEACH PARK DR. STA. 22+00 - 23+83

14

PLAN VIEW - SOUTH PALOMA PL. STA. 30+00 - 32+00

15

PROFILE - SOUTH PALOMA PL. STA. 30+00 - 32+00

16

PLAN VIEW - SOUTH PALOMA PL. STA. 32+00 - 35+00

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PROFILE - SOUTH PALOMA PL. STA. 32+00 - 35+00

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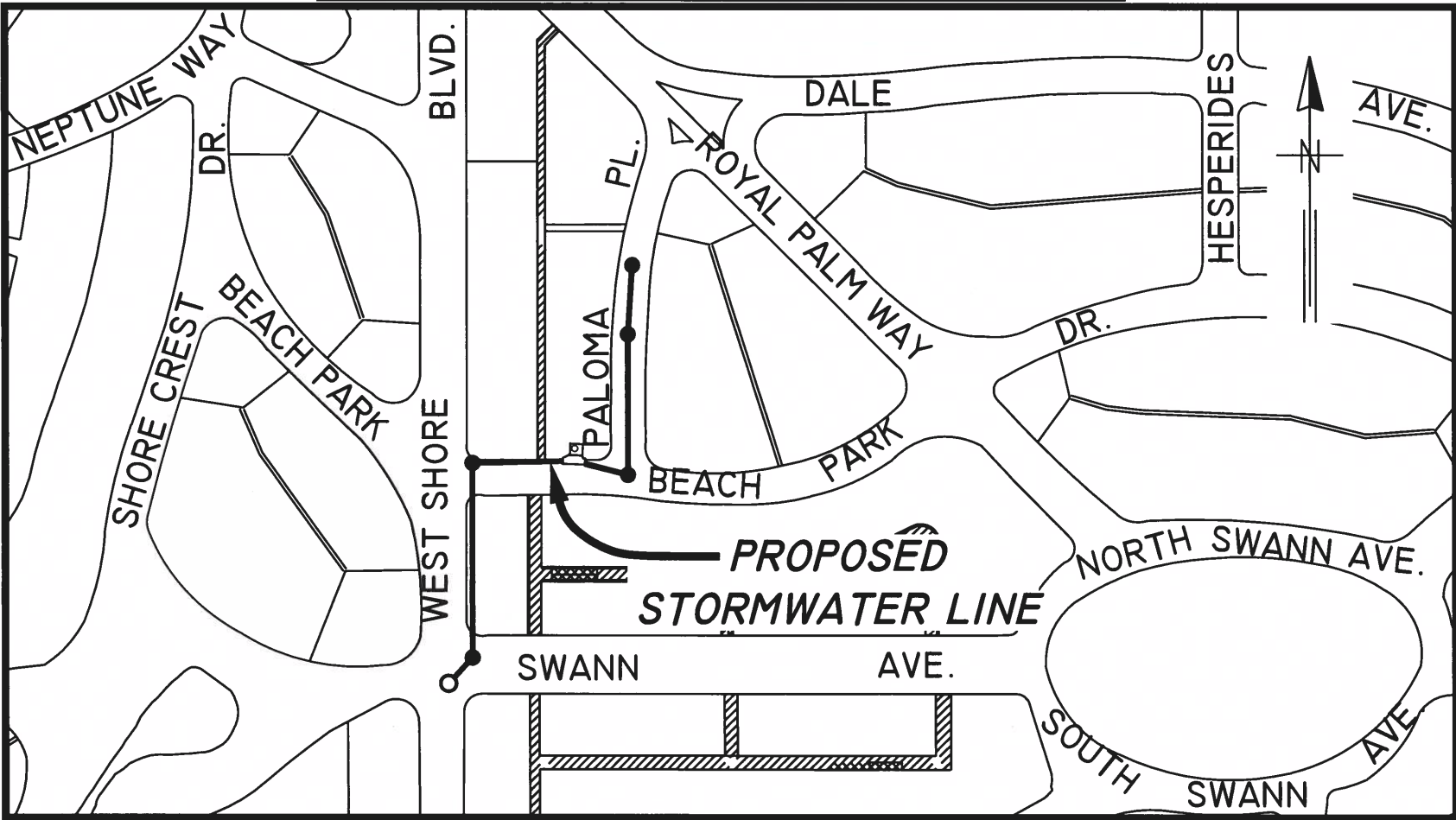
CONFLICT STRUCTURE DETAILS

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PROJECT LOCATION

NOT TO SCALE

Bearings and coordinates shown on this survey are based on the North American Datum of 1983, 2011 adjustment (NAD 83/2011) as referenced to the Florida State Plane Coordinate System, West Zone and are shown in U.S. Survey Feet. Control utilized for this survey is as follows:

NGS Designation: 872 4267 TIDAL 2, PID: AA0971, Northing: 119,232.08, Easting: 511,263.40

NGS Designation: 872 4332 G TIDAL, PID: AA0724, Northing: 119,878.66, Easting: 485,330.05

No.	DATE	REVISIONS	No.	DATE	REVISIONS
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DES: Y.P.  
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CITY of TAMPA  
Mobility Department  
Stormwater Engineering Division

BEACH PARK  
STORMWATER DRAINAGE IMPROVEMENTS  
LEGEND, INDEX & PROJECT MAP

SHEET  
2  
OF 21



GENERAL NOTES

1. ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1988.
2. LOCATIONS, ELEVATIONS AND DIMENSIONS OF THE EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS, OF ALL EXISTING UTILITIES, STRUCTURE, AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO CONSTRUCTION. GAS, VERIZON, WATER MAIN, WATER SERVICES, SEWER LATERALS AND OTHER SUBSURFACE PIPING HAS NOT BEEN LOCATED. ENGINEER OF RECORD SHOWS LOCATIONS AS APPROXIMATE AS PROVIDED BY OTHERS.
3. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION DENOTED BY UPPER AND LOWER CASE. PROPOSED WORK DENOTED BY ALL UPPER CASE.
4. THE CONTRACTOR SHALL CALL SUNSHINE (1-800-432-4770) AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
5. WHEN IN CONFLICT, UTILITY POLES, GAS LINES, UNDERGROUND ELECTRIC, TELEPHONE AND OTHER COMMUNICATION CABLES AND CONDUIT WILL BE RELOCATED BY THE RESPECTIVE UTILITY OWNERS AT THEIR OWN EXPENSE.
6. PRIOR TO ANY CONSTRUCTION, CONTACT TAMPA ELECTRIC COMPANY (PH: 813-228-4111 OR 813-275-3037) FOR EXACT LOCATION OF UNDERGROUND LINES. TECO TO RELOCATE ANY CONFLICTING LINES.
7. PRIOR TO ANY CONSTRUCTION, CONTACT TECO GAS (813-275-3743) FOR EXACT LOCATION OF UNDERGROUND LINES. TECO GAS TO RELOCATE ANY CONFLICTING LINES.
8. PRIOR TO ANY CONSTRUCTION, CONTACT VERIZON (813-978-2164) FOR EXACT LOCATION OF UNDERGROUND LINES. VERIZON TO RELOCATE ANY CONFLICTING LINES.
9. STATIONS AND OFFSETS GIVEN ARE TO THE CENTER LINE OF THE INLETS AND MANHOLES, AND REFER TO THE SURVEY BASE LINES.
10. THE SOLID WASTE DEPARTMENT (813-348-1146) IS TO BE NOTIFIED PRIOR TO ANY STREET CLOSURES IN THE PROJECT AREA.
11. TREE REMOVAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING SITE CLEARING PERMIT PRIOR TO START OF ANY CONSTRUCTION.
12. NECESSARY ROOT PRUNING AND TRIMMING OF BRANCHES SHALL BE DONE BY A CERTIFIED ARBORIST.
13. THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF THE LATEST "TREE ORDINANCE" OF THE CITY OF TAMPA. THE CONTRACTOR IS REQUIRED TO RELOCATE THE TREES REMOVED AS A PART OF THE NECESSARY CONSTRUCTION INDICATED ON PLANS.
14. SOD ALL THE DISTURBED AREAS WITHIN APPROVED TRENCH LIMITS.
15. WHERE CONNECTIONS TO EXISTING DRIVES AND WALKS ARE NOT INDICATED ON THE PLANS, PROPER CONNECTIONS SHALL BE MADE AT THE DIRECTION OF THE ENGINEER.
16. STREET SIGNS, STREET MARKERS AND R-O-W MARKERS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER.
17. MAILBOXES SHALL BE REMOVED AND REPLACED IN-KIND.
18. DRIVEWAYS SHALL BE RECONSTRUCTED IN ACCORDANCE WITH CHAPTER 25 OF THE CITY CODE AND THE TRANSPORTATION TECHNICAL MANUAL. DEVIATION FROM ESTABLISHED STANDARDS SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER.
19. THE CONTRACTOR SHALL PROTECT ALL TREES IN THE VICINITY OF THE PROPOSED CONSTRUCTION IN ACCORDANCE WITH CHAPTER 13 OF THE CITY OF TAMPA CODE. NO TREES SHALL BE PRUNED WITHOUT PRIOR APPROVAL FROM THE CITY OF TAMPA PARKS & RECREATION DEPARTMENT, NATURAL RESOURCES DIVISION, AND SHALL BE COMPLETED BY A CERTIFIED ARBORIST. ROOT PRUNING MAY BE REQUIRED AT CERTAIN LOCATIONS AND SHALL BE COMPLETED IN ACCORDANCE WITH CHAPTER 13 TECHNICAL MANUAL SPECIFICATIONS.
20. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE CITY OF TAMPA DEPARTMENT ORDINANCES AND REGULATIONS.
21. THE CONTRACTOR SHALL MAINTAIN COPIES OF ALL APPLICABLE PERMITS ON-SITE AND SHALL BE RESPONSIBLE TO ADHERE TO ALL PERMIT CONDITIONS DURING CONSTRUCTION.
22. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO THE ENGINEER FOR APPROVAL. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
23. COMPACTION FOR PIPE BACKFILL SHALL COMPLY WITH AASHTO T-99 (100%).

SITE NOTES

1. ALL DESIGN AND CONSTRUCTION MUST CONFORM TO THE MINIMUM STANDARDS SET DOWN IN CITY OF TAMPA STORMWATER TECHNICAL MANUAL, LATEST VERSION.
2. ALL RIGHT-OF-WAY INSTALLATIONS MUST COMPLY WITH THE CITY OF TAMPA STANDARDS AND TECHNICAL MANUALS.
3. IN AREAS WHERE FILL MATERIAL IS REQUIRED, THE EXISTING VEGETATION AND ROOTS SHALL BE REMOVED PRIOR TO PLACING ANY FILL MATERIAL. THE FILL SHALL BE PLACED IN LIFTS NO GREATER THAN 12 INCHES AS MEASURED LOOSE, AND COMPACTED TO A UNIFORM DENSITY ASTM D698. THE MATERIAL SHALL BE COMPACTED AT A MOISTURE CONTENT PERMITTING THE SPECIFIED COMPACTION. THE FILL SHALL BE TESTED BY THE CITY OF TAMPA THROUGH THE CITY INSPECTOR AND THE RESULTS SUPPLIED TO THE ENGINEER.
4. THE CONTRACTOR SHALL CONTACT THE ENGINEER'S OFFICE IMMEDIATELY ON ANY CONFLICTS ARISING DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONSULT WITH THE ENGINEER FOR MAKING ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS. HOWEVER, THIS IN NO WAY RELIEVES THE CONTRACTOR OF HIS RESPONSIBILITY FOR CONSTRUCTING THE PROJECT TO ACCOMPLISH THE INTENT OF THE PLANS.
5. REPAIR AND REPLACEMENT OF ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING BEFORE COMMENCING CONSTRUCTION UNLESS SPECIFICALLY EXEMPTED BY THE PLANS.
6. EROSION/SEDIMENTATION CONTROL: THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN), IF REQUIRED TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, THE CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON THE GROUND, AS REQUIRED, IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE, EITHER BY NATURAL DRAINAGE OR BY VEHICLE TRAFFIC, THE CONTRACTOR IS TO REMOVE AND CLEAN SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR LOCAL AUTHORITIES.
7. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREA TO CONTROL BOTH SIGNIFICANT WIND EROSION OR FUGITIVE DUST.
9. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. PORTLAND CEMENT SHALL CONFORM TO ASTM C150. AGGREGATE SHALL CONFORM TO ASTM C33. READY MIXED CONCRETE SHALL CONFORM TO ASTM C-04. SUBSURFACE SHALL BE FREE FROM TROWEL OR MACHINE MARKS. SURFACE VARIATIONS SHALL NOT EXCEED 1/4 INCH UNDER TEN-FOOT (10') STRAIGHT EDGE.
10. ALL GRADING OF SIDEWALKS AND PEDESTRIAN WALKWAYS SHALL MEET MINIMUM 'ADA' STANDARDS. SIDEWALK CROSS SLOPES AND DRIVEWAY CROSSINGS FOR SIDEWALKS TO BE 2.0% MAX. SLOPE. ALL SIDEWALK RUNNING SLOPES SHALL NOT EXCEED 5% WITHOUT USE OF PROPER RAMPS FOR FDOT OR FLORIDA BUILDING CODE. CONTRACTOR SHALL FIELD-VERIFY SIDEWALK FORM BOARDS PRIOR TO CONSTRUCTING WALKWAYS.
11. ALL INLET GRATE SEATS SHALL BE GALVANIZED GRATE SEATS.

SW 2021-05

CONSTRUCTION NOTES

1. PRICE FOR ALL REMOVAL, AS SHOWN ON THE PLANS OUTSIDE OF CONSTRUCTION EXCAVATION AREA, SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE STORMWATER UNIT PRICES.
2. CONTRACTOR TO SOD DISTURBED RIGHT-OF-WAY WITH BAHIA SOD AND/OR LIKE KIND OF EXISTING SOD.
3. CONTRACTOR TO RESTORE DISTURBED RESIDENTIAL YARDS WITHIN CONSTRUCTION LIMITS WITH BAHIA, ST. AUGUSTINE, AND/OR LIKE KIND OF SOD.
4. CONTRACTOR SHALL RESTORE ALL NEIGHBORING RESIDENTIAL YARDS WITH LIKE KIND OF LANDSCAPING, MAILBOXES, WALK WAYS, DRIVEWAYS, ETC. EACH YARD SHALL BE RESTORED TO EXISTING CONDITIONS UP TO AND INCLUDING FROM BACK OF CURB TO RIGHT OF WAY LINE.
5. CONTRACTOR TO PROTECT EXISTING IRRIGATION SYSTEMS AND ANY OTHER UTILITIES IN RESIDENTIAL YARDS WITHIN CONSTRUCTION LIMITS AND/OR RESTORE ANY DAMAGED SYSTEMS DURING CONSTRUCTION BACK TO EXISTING CONDITIONS.
6. CONTRACTOR TO PROTECT EXISTING PRIVATE FENCES DURING CONSTRUCTION OR REPLACE IN LIKE KIND.
7. CONTRACTOR TO PROTECT THE EXISTING CONDUIT THAT IS TO REMAIN.
8. ALL REMOVAL WITHIN PROPOSED EXCAVATION AREAS IS PART OF PIPE & DITCH CONSTRUCTION.
9. PRICE FOR ALL REMOVAL, AS SHOWN ON THE PLANS OUTSIDE OF CONSTRUCTION AREA, SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE STORMWATER UNIT PRICE ITEMS.
10. CONTRACTOR SHALL CONTACT SUNSHINE WITHIN 48 HOURS PRIOR TO ANY CONSTRUCTION.
11. CONTRACTOR TO PROTECT ALL POWER POLES & SUBSURFACE UTILITIES. IN THE EVENT OF A CONFLICT THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY PROVIDER RESPONSIBLE FOR THE RELOCATION.
12. ALL RCP PIPES SHALL BE CLASS III WITH MINIMUM COVER OF 18". ALL RCP PIPES WITH LESS THAN 18" OF COVER ON RESIDENTIAL ROADS SHALL BE CLASS IV.
13. CONCRETE STRUCTURES AND JUNCTION BOXES MAY BE PRECAST OR CAST IN PLACE.
14. FOR BRICK/PAVER DRIVEWAYS THE INTENT IS TO STACK AND STORE ANY DISTURBED PAVERS, AND TO RESTORE ANY DAMAGED PAVERS AS CLOSE AS POSSIBLE.

Plot Date: Tuesday, April 13, 2021

No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES: Y.P. DRN: BB CKD: BAC DATE: 4-20-21	CITY of TAMPA Mobility Department Stormwater Engineering Division	BEACH PARK STORMWATER DRAINAGE IMPROVEMENTS GENERAL, SITE AND CONSTRUCTION NOTES	SHEET 3 of 21
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TREE PROTECTION NOTES

1. PROTECTIVE BARRICADES SHALL BE PLACED AROUND ALL PROTECTED TREES AND GRAND TREES DURING SITE CLEARING, AND SHALL REMAIN IN PLACE UNTIL LAND ALTERATION, SITE CLEARING AND CONSTRUCTION ACTIVITIES ARE COMPLETE. BARRICADES SHALL BE ERECTED AT A MINIMUM DISTANCE OF TEN FEET (10') FROM THE BARK OF PROTECTED TREES AND TWENTY FEET (20') FROM THE BARK OF GRAND TREES.
2. REQUIRED TREE BARRICADES AND EROSION CONTROL MEASURES MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. ENCROACHMENT INTO OR FAILURE TO MAINTAIN TREE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS AND/OR PERMIT REVOCATION.
3. A MINIMUM DISTANCE OF TEN FEET (10') SHALL BE MAINTAINED FROM ALL PROTECTED TREES WHEN INSTALLING UNDERGROUND UTILITIES. IF THIS RESULTS IN UNREASONABLE HARDSHIP, A SOIL AUGER SHALL BE USED TO TUNNEL UNDER THE ROOT SYSTEMS.
4. THE CONTRACTOR IS REQUIRED TO PREVENT DAMAGE TO TREES WHICH ARE TO REMAIN. THE CONTRACTOR SHALL BE LIABLE FOR FINES DUE TO ALL DAMAGE OF TREES THAT ARE DESIGNATED TO BE SAVED DURING CONSTRUCTION. SPECIAL CARE IS REQUIRED TO PREVENT DAMAGE TO TREES WHICH ARE TO REMAIN.
5. INSTALLATION OF ARTIFICIAL BARRIERS SUCH AS PROTECTIVE BARRICADES, FENCES, POSTS, OR WALLS SHALL NOT DESTROY OR IRREVERSIBLY HARM THE ROOT SYSTEM OF PROTECTED TREES AND GRAND TREES. FOOTERS FOR WALLS SHALL BE AT THE POINT WHERE LARGER ROOTS ARE ENCOUNTERED, AND THE ROOTS SHALL BE BRIDGED. POST HOLES AND TRENCHES LOCATED CLOSE TO PROTECTED TREES OR GRAND TREES SHALL BE ADJUSTED TO AVOID DAMAGE TO MAJOR ROOTS.
6. ALL ROOTS TO BE REMOVED DURING THE SITE CLEARING PHASE SHALL BE SEVERED CLEAN AT THE PERIMETER OF THE DESIGNATED PROTECTED RADIUS AND SHALL BE DONE BY A CERTIFIED ARBORIST.
7. ALL TREES SHALL BE PROTECTED, ROOT PRUNING AND CANOPY PRUNING SHALL BE PERFORMED BY A CERTIFIED ARBORIST. ALL ROOT PRUNING AS WELL AS CANOPY PRUNING SHALL BE PERFORMED UNDER THE CITY OF TAMPA PARKS DEPARTMENT SUPERVISION.
8. A TWO-INCH (2") LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS OF PROTECTED TREES AND GRAND TREES DURING THE SITE CLEARING PHASE.
9. CONTRACTOR SHALL COORDINATE WITH CITY ARBORIST AND APPROVAL FOR ROOT PRUNING AND LIMB TRIMMING FOR CONSTRUCTION ACTIVITIES.
10. CONTRACTOR IS RESPONSIBLE FOR ANY PERMITS FOR TREE REMOVAL, TRIMMING, AND ROOT PRUNING, AS WELL AS ANY NECESSARY NOTICING FOR BOTH GRAND TREES AND NON GRAND TREES.

NPDES/FDEP NOTICE OF INTENT AND REPORTING NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF THE EROSION AND SEDIMENTATION CONTROL PLAN TO BE SUBMITTED TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE PLAN SHALL INCLUDE THE FOLLOWING:
  - A. NARRATIVE: A BRIEF DESCRIPTION OF THE OVERALL STRATEGY FOR EROSION AND SEDIMENT CONTROL.
  - B. MAP/SITE PLAN: SITE PLAN WHICH SHOWS THE EXISTING AND FINAL ELEVATION CONTOURS, CRITICAL AREAS WITHIN OR NEAR THE PROJECT AREA, EXISTING VEGETATION, LIMITS OF CLEARING AND GRADING, AND LOCATIONS AND NAMES OF EROSION AND SEDIMENT CONTROL MEASURES, WITH DIMENSIONS.
  - C. CONSTRUCTION DETAILS
  - D. CALCULATIONS: INCLUDE CALCULATIONS USED TO SIZE THE CONTROL MEASURES AND THE DESIGN ASSUMPTIONS FOR SEDIMENT BASINS AND TRAPS.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BEFORE AND AFTER EACH RAIN EVENT OF 1/4 INCH OR MORE.
3. DISTURBED AREAS WHICH HAVE BEEN BROUGHT TO FINAL GRADE OR WHICH WILL REMAIN AT ROUGH GRADE FOR 14 DAYS OR MORE SHALL RECEIVE PERMANENT STABILIZATION IMMEDIATELY.
4. CONTRACTOR SHALL MAINTAIN ON-GOING INSPECTION REPORTS FOR EROSION & SEDIMENT CONTROL INSPECTIONS AND MAINTENANCE.
5. CONTRACTOR SHALL HAVE A CERTIFIED INSPECTOR ON STAFF AND BE RESPONSIBLE FOR ALL NPDES REPORTING.
6. ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATIVE MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE. SODDING, PLUGGING, SPRIGGING, OR SEEDING IS ACCEPTABLE FOR STABILIZATION; HOWEVER, SODDING MAY BE REQUIRED IN AREAS OF EROSION-PRONE SOILS OR WHERE SLOPES ARE GREATER THAN 5:1. VEGETATION OTHER THAN GRASS IS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.
7. THE CONTRACTOR SHALL SUBMIT THE REQUIRED NPDES/FDEP NOTICE OF INTENT 30 DAYS PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL RAINFALL AND DISCHARGE LOGS DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION A NOTICE OF TERMINATION SHALL BE FILED WITH FDEP.

EROSION/TURBIDITY-CONTROL NOTES

1. THE INSTALLATION OF TEMPORARY EROSION CONTROL BARRIERS SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE PERMANENT EROSION CONTROL FEATURES TO THE EXTENT NECESSARY TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL OF EROSION AND WATER POLLUTION THROUGHOUT THE LIFE OF THE CONSTRUCTION PHASE.
2. THE TYPE OF EROSION CONTROL BARRIERS USED SHALL BE GOVERNED BY THE NATURE OF THE CONSTRUCTION OPERATION AND SOIL TYPE THAT WILL BE EXPOSED. SILTY AND CLAYEY MATERIAL USUALLY REQUIRE SOLID SEDIMENT BARRIERS TO PREVENT TURBID WATER DISCHARGE, WHILE SANDY MATERIAL MAY NEED ONLY SILT SCREENS OR HAY BALES TO PREVENT EROSION. FLOATING TURBIDITY CURTAINS SHALL BE USED IN OPEN WATER SITUATIONS. DIVERSION DITCHES OR SWALES MAY BE REQUIRED TO PREVENT TURBID STORMWATER RUNOFF FROM BEING DISCHARGED TO WETLANDS OR OTHER WATER BODIES. IT MAY BE NECESSARY TO EMPLOY A COMBINATION OF BARRIERS, DITCHES AND OTHER EROSION/TURBIDITY CONTROL MEASURES IF CONDITIONS WARRANT.
3. CONSTRUCTION OPERATIONS IN OR ADJACENT TO WETLANDS SHALL BE RESTRICTED TO THOSE AREAS IDENTIFIED IN THE PLANS AND IN THE SPECIFICATIONS.
4. EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN THE WETLANDS OR IN A POSITION CLOSE ENOUGH THERETO TO BE WASHED AWAY BY HIGH WATER OR RUNOFF.
5. WHERE PUMPS ARE TO BE USED TO REMOVE TURBID WATERS FROM CONSTRUCTION AREAS, THE WATER SHALL BE TREATED PRIOR TO DISCHARGE TO THE WETLANDS. TREATMENT METHODS INCLUDE AND ARE NOT LIMITED TO, TURBID WATER BEING PUMPED INTO GRASSED SWALES OR APPROPRIATE VEGETATED AREAS, SEDIMENT BASINS, OR CONFINED BY AN APPROPRIATE ENCLOSURE SUCH AS TURBIDITY BARRIERS, AND KEPT CONFINED UNTIL ITS TURBIDITY LEVEL MEETS STATE WATER QUALITY STANDARDS.
6. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS SUCH THAT THE AREA OF UNPROTECTED ERODIBLE EARTH EXPOSED AT ANY ONE TIME IS NOT LARGER THAN THE MINIMUM AREA NECESSARY FOR EFFICIENT CONSTRUCTION OPERATIONS, AND THE DURATION OF EXPOSED, UNCOMPLETED CONSTRUCTION TO THE ELEMENTS SHALL BE AS SHORT AS PRACTICABLE. CLEARING AND GRUBBING SHALL BE SO SCHEDULED AND 3PERFORMED THAT GRADING OPERATIONS CAN FOLLOW IMMEDIATELY THEREAFTER, AND GRADING OPERATIONS SHALL BE SCHEDULED AND PERFORMED THAT PERMANENT EROSION CONTROL FEATURES CAN FOLLOW IMMEDIATELY THEREAFTER IF CONDITIONS ON THE PROJECT PERMIT.
7. THE CONTRACTOR AND/OR OWNER'S REPRESENTATIVE SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETE AND ALL BARED SOILS ARE STABILIZED.
8. SILT FENCE SHALL BE LOCATED AT THE PERIMETER OF CONSTRUCTION LIMITS, AS DEFINED BY FIELD CONDITIONS.
9. CONTRACTOR IS TO PROVIDE EROSION CONTROL AND SEDIMENTATION BARRIER (HAY BALES OR SILTATION CURTAIN) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS. IN ADDITION, CONTRACTOR SHALL PLACE STRAW, MULCH OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO REMOVE SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.
10. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE METHODS.

BIDDING NOTES

1. ALL PROPOSED CONSTRUCTION WITHIN LIMITS OF WORK AREAS ARE PART OF PIPE, INLET AND / OR MANHOLE CONSTRUCTION.
2. PRICE FOR ALL REMOVAL, AS SHOWN ON THE PLANS OUTSIDE OF CONSTRUCTION EXCAVATION AREA, SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE STORMWATER UNIT PRICES.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PULLING RIGHT-OF-WAY USE PERMITS FOR CITY OF TAMPA.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PULLING RIGHT-OF-WAY USE PERMIT FOR HILLSBOROUGH COUNTY IF DETERMINED ONE IS NEEDED.
5. CONTRACTOR RESPONSIBLE FOR OBTAINING TREE REMOVAL PERMITS AND GRAND TREE REMOVAL NOTICING. CONTRACTOR RESPONSIBLE FOR ANY PERMITTING NECESSARY FOR TREE TRIMMING AND ROOT PRUNING FOR BOTH GRAND AND NON-GRAND TREES.
6. CONTRACTOR RESPONSIBLE FOR SUPPLYING ALL MOT PLANS.
7. PRIOR TO CONSTRUCTION CONTRACTOR TO RECORD LIMITS OF CONSTRUCTION AREA AND DOCUMENT ALL UNIQUE AND SPECIAL FEATURES OF RESIDENTIAL YARD AREAS WITHIN ROW LIMITS. CONTRACTOR SHALL AT BEST EFFORT PRESERVE ALL SPECIAL AND UNIQUE FEATURES INCLUDING BUT NOT LIMITED TO BRICK PAVERS FOR DRIVEWAYS AND WALKWAYS, MAILBOXES, LANDSCAPE PLANTERS AND OTHER FEATURES, TREES, ETC. CONTRACTOR SHALL PERFORM RESTORATION OF ANY FEATURES REMOVED.
8. ALL BOX CULVERTS AND STORMPIPE SHALL BE WATER TIGHT. BOX CULVERT AND STORM PIPE TRENCH BACKFILLING SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS 125. BOX CULVERT BACKFILLING WILL BE UNDER WET CONDITIONS AND SHALL CONFORM SPECIFICALLY TO FDOT STANDARD SPECIFICATION 125.8.3.4 WITH COARSE AGGREGATE PIPE BEDDING WRAPPED IN FILTER FABRIC.
9. LIMITS OF DISTURBED OPEN CUT AREAS MAY VARY DEPENDENT UPON CONTRACTOR MEANS AND METHODS. CONSTRUCTION OPTIONS INCLUDE BUT NOT LIMITED TO INCLUDE SHEET PILING, SLOPED OPEN CUT, AND TRENCH BOX. CONSTRUCTION PLANS AND SPECS ASSUME A SLOPED OPEN CUT TRENCH.

SW 2021-05

PLOT

Plot Date: Tuesday, April 13, 2021

No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES: Y.P.	<div>CITY of TAMPA</div> <div>Mobility Department</div> <div>Stormwater Engineering Division</div>	<div>BEACH PARK</div> <div>STORMWATER DRAINAGE IMPROVEMENTS</div> <div>TREE PROTECTION, EROSION AND BIDDING NOTES</div>	<div>SHEET</div> <div>4</div> <div>of 21</div>
3			6			DRN: BB			
2			5			CKD: POC			
1			4			DATE: 4-20-21			



WATER NOTES

1. ALL WORKMANSHIP AND MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO WATER DEPARTMENT SPECIFICATIONS AS PROVIDED IN CONTRACT BID DOCUMENTS.
2. THE LOCATIONS AND SIZE OF THE UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. HOWEVER, THERE IS NO GUARANTEE THAT ALL EXISTING UTILITIES HAVE BEEN FOUND OR SHOWN. THE CONTRACTOR IS FOREWARNED TO ASCERTAIN AND DETERMINE PRECISE LOCATIONS PRIOR TO EXCAVATION AND ALSO TO FAMILIARIZE HIM/HER SELF WITH ALL VOLTAGES CARRIED IN OVERHEAD OR UNDERGROUND UTILITY SERVICES. NO CLAIM FOR EXTRA COST SHALL BE MADE AS A RESULT OF THE AFOREMENTIONED APPROXIMATIONS.
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION. CALL "SUNSHINE ONE CALL" AT 1-800-432-4770.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO USE WHATEVER MEANS NECESSARY TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND THE DITCHES DURING CONSTRUCTION. SEE EROSION AND SILTATION CONTROL NOTES FOR ADDITIONAL INFORMATION.
5. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS ARE BASED.
6. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES OR FITTINGS.
7. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY. SPECIAL PRECAUTIONS MAY BE REQUIRED IN THE VICINITY OF POWER LINES AND OTHER UTILITIES.
8. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FROM PROVIDING A CONTINUOUS SAFE WORKSPACE.
9. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS, PERMIT REQUIREMENTS, AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
10. WATER MAIN CONSTRUCTION SHALL INCLUDE EXCAVATION AS REQUIRED, INSTALLATION, AND BACKFILL ONLY - RESTORATION SHALL BE PER THE PROJECT ROADWAY PLANS AND PAID THROUGH THE CONTRACT ROADWAY PAY ITEMS.
11. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO THEIR ORIGINAL OR BETTER CONDITION.
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO PERFORM HIS WORK.
13. THE CONTRACTOR SHALL PROVIDE SUPPORT FOR UTILITY POLES WHERE CONSTRUCTION MAY CAUSE THE POLE TO LOSE ITS SELF-SUPPORTING ABILITY.
14. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY CONSTRUCTION EASEMENTS NECESSARY TO COMPLETE THE WORK. IF SUCH EASEMENTS ARE OBTAINED, THEY MUST CONTAIN PROVISIONS TO HOLD THE CITY OF TAMPA HARMLESS FROM ANY OPERATIONS OF THE CONTRACTOR WITHIN THE EASEMENT LIMITS. THE CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER TO RESTORE PRIVATE PROPERTY TO ITS ORIGINAL OR BETTER CONDITION.

15. THE INTENT OF THIS PROJECT'S PLANS AND TECHNICAL PROVISIONS IS FOR ALL WATER MAINS TO BE INSTALLED AS A CONTINUOUS PROJECT. CONNECTIONS TO EXISTING WATER MAINS SHALL BE DONE IN A TIMELY MANNER. AT NO TIME SHALL THE FLOW OF WATER RUNNING THE LENGTH OF THE PROJECT BE STOPPED EXCEPT TO RECONNECT WATER MAINS THAT HAVE BEEN TESTED AND CLEARED FOR POTABLE WATER USE.
16. CONNECTIONS TO EXISTING SYSTEMS: THE CITY WATER DEPARTMENT REQUIRES THAT ITS CUSTOMERS BE KEPT IN SERVICE AT ALL TIMES. THE CONTRACTOR MUST PROVIDE TEMPORARY SERVICE TO CUSTOMERS WHOSE SERVICE WILL BE AFFECTED BY A SHUTDOWN.
17. WHEN A SHUTDOWN IS AUTHORIZED BY THE CITY WATER DEPARTMENT AND CUSTOMERS WILL HAVE THEIR WATER SHUT OFF, THE CONTRACTOR MUST HAVE PRE-ASSEMBLED ALL NEW PIPING EXCEPT AT THE POINT OF TIE-IN INCLUDING SERVICE LINES BEING TRANSFERRED TO THE NEW MAIN. THE ENTIRE PRE-ASSEMBLY SHALL BE SUCCESSFULLY PRESSURE TESTED AND BACTERIOLOGICAL TESTED PRIOR TO THE SHUTDOWN. THE CONTRACTOR SHALL HAVE SUFFICIENT CREWS ON SITE TO ACCOMPLISH THE SHUTDOWN IN LESS THAN FOUR HOURS.
18. CONTRACTOR SHALL INSTALL LINESOPS IF AND AS REQUIRED TO KEEP CUSTOMERS IN SERVICE DURING SHUTDOWNS, WITH THE CONCURRENCE OF THE CITY WATER DEPARTMENT. SEVERAL REQUIRED LINESOPS HAVE BEEN SHOWN IN THE PLANS, BASED ON KNOWN EXISTING CONDITIONS - HOWEVER, OTHERS MAY BE REQUIRED BASED ON THE CONTRACTOR'S AGREED SEQUENCING OF CONSTRUCTION.
19. THE CONTRACTOR'S SCHEDULE PROPOSED FOR WATER MAIN RELOCATION CONSTRUCTION AND REMOVALS SHALL BE SUBMITTED TO, AND MUST BE APPROVED BY, THE CITY WATER DEPARTMENT. NOTE THAT THE SCHEDULE PROPOSED IN THE PROJECT ROADWAY PLANS IS INTENDED FOR ROADWAY & DRAINAGE CONSTRUCTION ONLY - WATER MAINS CANNOT BE CONSTRUCTED IN THE PROPOSED BLOCK-BY-BLOCK MANNER. IT IS RECOMMENDED THAT WATER MAIN RELOCATIONS BE ACCOMPLISHED PRIOR TO THE DRAINAGE AND ROADWAY CONSTRUCTION.

SANITARY NOTES

1. *PROPOSED SANITARY SEWER SHALL BE CONSTRUCTED PER CITY OF TAMPA WASTEWATER DEPARTMENT TECHNICAL STANDARDS.*
2. *UNLESS INDICATED, ALL PROPOSED GRAVITY SEWER SHALL BE PVC ASTM D3034 SDR-35.*
3. *CONTRACTOR SHALL MAINTAIN CONTINUOUS SEWER SERVICE.*
4. *CONTRACTOR SHALL RAISE OR LOWER EXISTING MANHOLE FRAME AND COVER TO MATCH PROPOSED GRADE AS REQUIRED.*
5. *ALL ABANDONED SANITARY SEWERS SHALL BE REMOVED OR ABANDONED IN PLACE WITH FLOWABLE FILL.*
6. *OSHA STANDARD SAFETY EQUIPMENT SUCH AS SAFETY HARNESSSES, GAS MONITORS, LOWER EXPLOSIVE LIMIT (LEL) DETECTORS, BREATHING APPARATUS, ETC. SHALL BE UTILIZED WHERE THE WORK DICTATES THEIR USE.*

No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES: Y.P. DRN: <del>BB</del> CKD: <i>BY</i> DATE: <i>A-2021</i>	<b>CITY of TAMPA</b> <b>Mobility Department</b> <b>Stormwater Engineering Division</b>	BEACH PARK STORMWATER DRAINAGE IMPROVEMENTS WATER AND WASTEWATER NOTES	SHEET <b>5</b> OF 21
3			6						
2			5						
1			4						



S-1

S-2

SUE LOCATE TABLE			
I.D.	STATION	OFFSET	T.O.P. ELEVATION
TH #3	0+90.00	35.5' Rt.	5.84

[illegible]

## PLAN

No.	DATE	REVISIONS	No.	DATE	REVISIONS
3			6		
2	05/06/21	RELOCATED S-2 5' SOUTH	5		
1	05/06/21	WATER LOCATION AND OFFSET, & NOTE REVISED	4		

DES: Y.P.

DRN: 28

CKD: *[Signature]*

DATE: 5-2021

**CITY of TAMPA**

**Mobility Department**

**Stormwater Engineering Division**

**BEACH PARK**

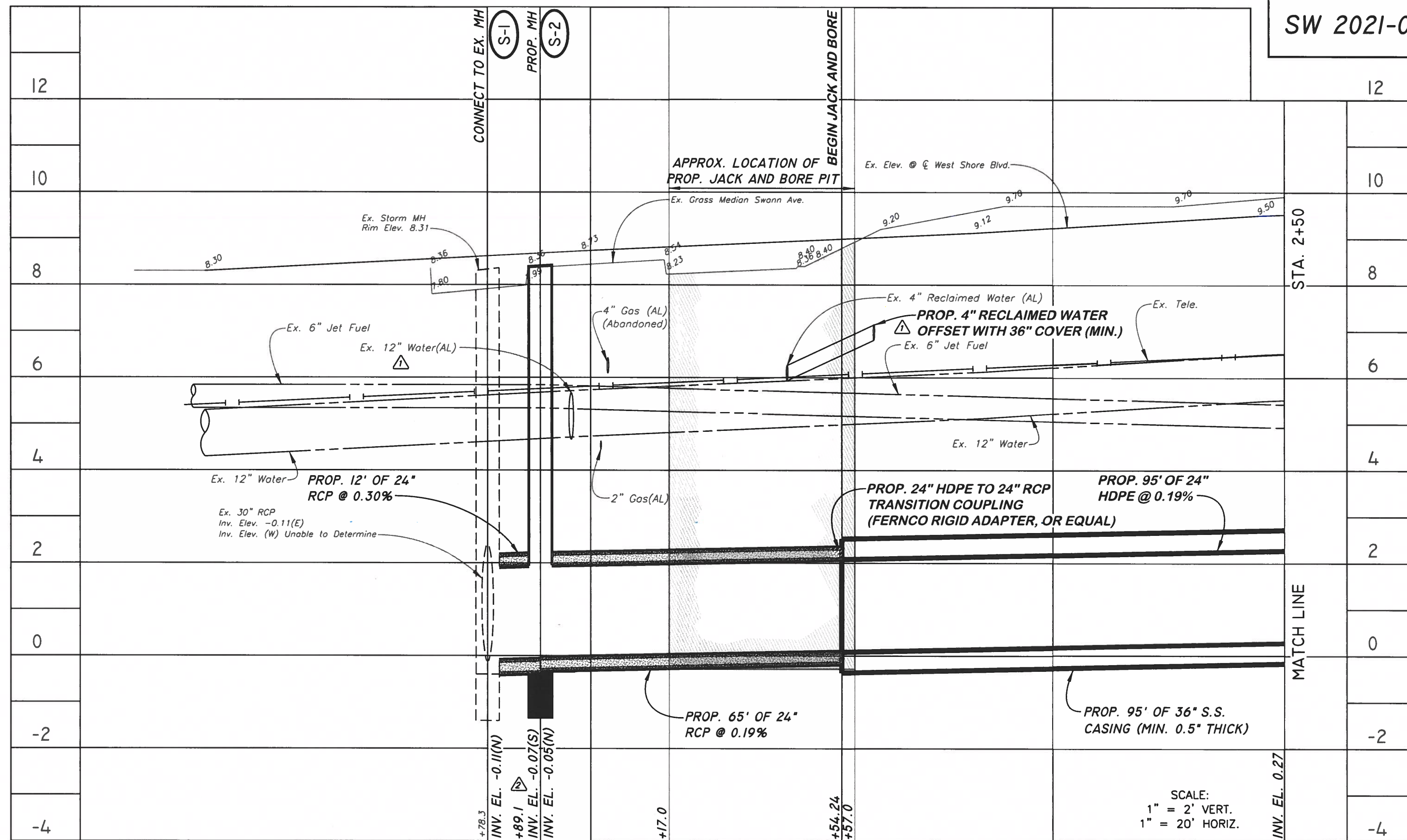
**STORMWATER DRAINAGE IMPROVEMENTS**

**PLAN VIEW - WESTSHORE BLVD. STA. 0+00 - 2+50**

**SHEET**

**6**

**OF 21**



PROFILE

No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES:	CITY of TAMPA	BEACH PARK	SHEET
3			6			Y.P.			7
2	05/06/21	RELOCATED S-2 5' SOUTH	5			DRN: <del>BB</del>	Mobility Department	STORMWATER DRAINAGE IMPROVEMENTS	of 21
1	05/06/21	WATER LOCATION AND OFFSET REVISED	4			CKD: <i>[Signature]</i>	Stormwater Engineering Division	PROFILE - WESTSHORE BLVD. STA. 0+00 - 2+50	
						DATE: 5-2021			

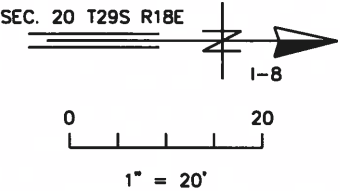


S-3

**PROP. CONFLICT STRUCTURE**  
(8'x 8.5' CONC. BOX W/ACCESS & COT  
MANHOLE RING AND COVER)  
STA. 4+27, 39.5' RT. PROP. RIM. ELEV. 9.60  
(WEST SHORE BLVD. B/L)  
(SEE DETAIL, SH. 19)  
PROP. 24" RCP INV. ELEV. 0.62 (E)  
PROP. 24" RCP INV. ELEV. 0.60 (S)

**NOTE:**  
REPLACE 12" VCP INSIDE STRUCTURE.  
TIE-IN OUTSIDE WITH FERNCO ADAPTERS  
WITH C-900 PVC. INSTALL STEEL CASING  
WITHIN STRUCTURE, NO SPACERS, AND  
FILL ANNULAR SPACE WITH GROUT  
(SEE SHEET 19)

SUE LOCATE TABLE			
I.D.	STATION	OFFSET	T.O.P. ELEVATION
TH #4	4+19.29	34.33' Rt.	4.91



STA. 2+50

SOUTH

WESTSHORE

BLVD.

**PROP. 165' OF 36" STAINLESS STEEL  
CASING (MIN. 0.5" WALL THICKNESS) BY  
JACK AND BORE (USING PILOT TUBE  
SYSTEM, THEN PULLING 36" STEEL CASING)**

Station Equation  
Sta. 04+30.34 West Shore Blvd Baseline,  
= Sta. 20+00.00 Beach Park Baseline

Sta. 4+27.3, 7.5' Rt.  
Wastewater MH, Rim Elev. 9.60  
Inv. El. 1.35(NW)(Per As-Built 70-29)  
Inv. El. 1.32(E)(Per As-Built 70-29)

**CAUTION!!  
6" JET FUEL**

**PROP. 165' OF 24" HDPE WITH SPACERS  
INSTALLED AND GROUTED IN PLACE  
(USING SLURRY MIX) AFTER INSTALL.  
(SEE MIX SPECS IN BID DOCUMENTS)**

**PROP.  
RECEPTION PIT**

WEST SHORE BLVD. B/L

4+00

20+00

5+00

Ex. Asphalt Pavement

6" Conc. Curb

12" Water

OHL  
Ex. 4" Reclaimed Water(AL)

OHL

Ex. Overhead Wires(AL)

6"

Ex. 6" Jet Fuel(AL)

E.O.P.

Ex. E.O.P.

Ex. Tele.

Conc. Walk

7.9'

Ex. 38"x 38" Vault  
(Below Grade)

Ex. 6" PVC Fence

**PROP. 24" HDPE TO RCP (FERNCO  
RIGID ADAPTER, OR EQUAL)**

**PROP. 8' OF  
24" RCP**

R/W

8" HDPE Water

60'

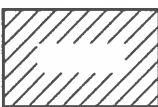
**PROP. 24" RCP  
(SEE SHEETS 10-13)**

R/W

4555 WEST  
SWANN AVE.

4630 WEST  
BEACH PARK DR.

4655 WEST  
BEACH PARK DR.



HATCHED AREA REPRESENTS LIMITS OF  
MILLING AND RESURFACING.

W. BEACH PARK DR.

Brick Drive

Ex. 12" VCP

W. BEACH PARK DR. B/L  
(SEE SHEETS 10-13)

**PLAN**

No.	DATE	REVISIONS	No.	DATE	REVISIONS
3			6		
2			5		
1			4		

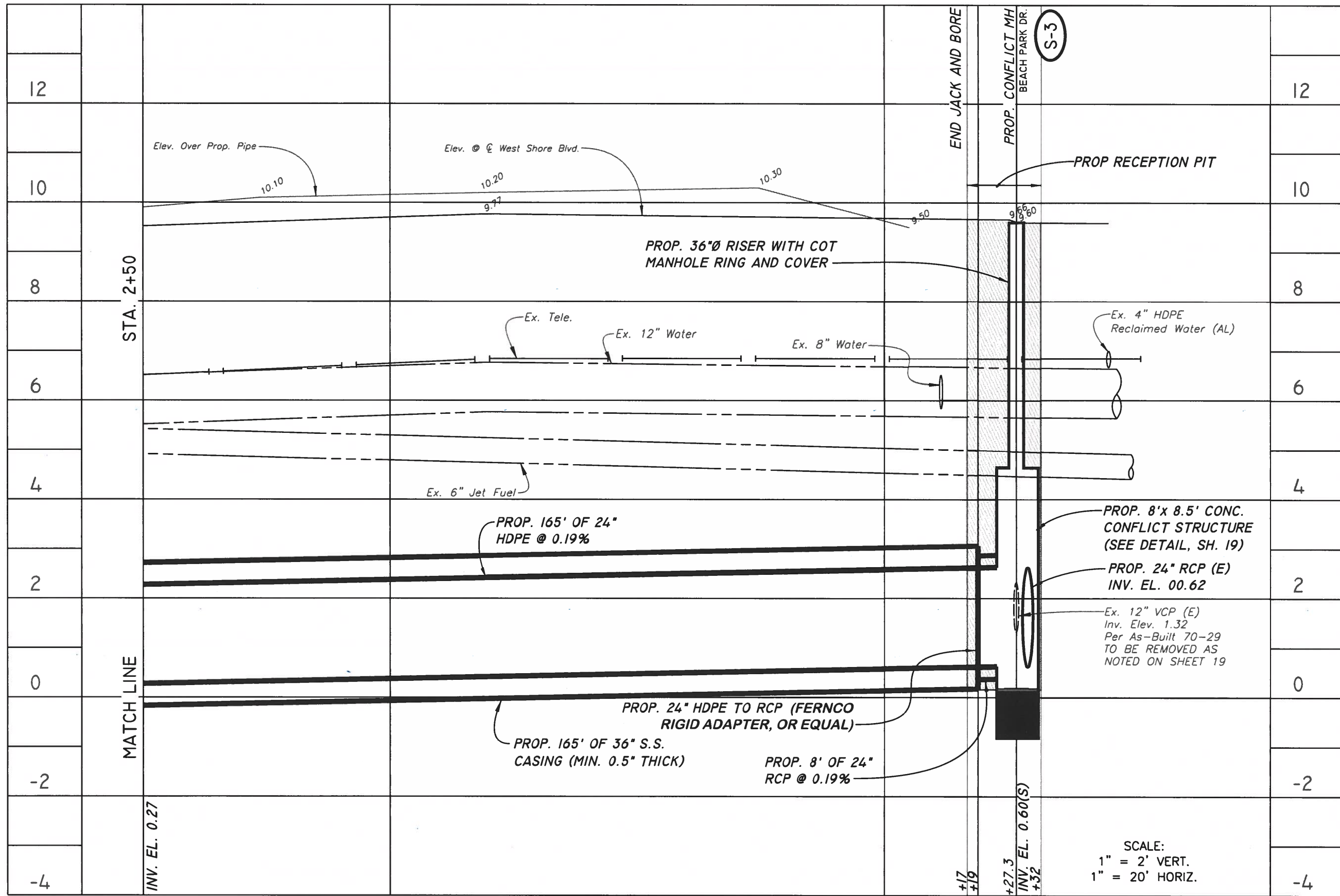
DES: Y.P.  
DRN: BB  
CKD: BB  
DATE: 4/20/21

**CITY of TAMPA**  
Mobility Department  
Stormwater Engineering Division

**BEACH PARK**  
STORMWATER DRAINAGE IMPROVEMENTS  
PLAN VIEW - WESTSHORE BLVD.

SHEET  
**8**  
OF 21

Plot Date: Tuesday, April 20, 2021



PROFILE

No.	DATE	REVISIONS	No.	DATE	REVISIONS
3			6		
2			5		
1			4		

DES: Y.P.  
DRN: BB  
CKD: BB  
DATE: 4-2021

**CITY of TAMPA**  
Mobility Department  
Stormwater Engineering Division

**BEACH PARK**  
STORMWATER DRAINAGE IMPROVEMENTS  
PROFILE - WESTSHORE BLVD.



Wastewater Manhole  
Rim Elev. 9.60  
Inv. El. 1.35(NW)(Per As-Built 70-29)  
Inv. El. 1.32(E)(Per As-Built 70-29) -

Station Equation  
Sta. 04+30.34 West Shore Blvd Baseline,  
= Sta. 20+00.00 Beach Park Baseline —

PROP. 24" STEEL/HDPE  
ADAPTER (FERNCO OR EQUAL)

WESTSHORE

# SOUTH

WEST SHORE BLVD. B/L  
(SEE SHEETS 4-7)


WEST BEACH PARK DR.

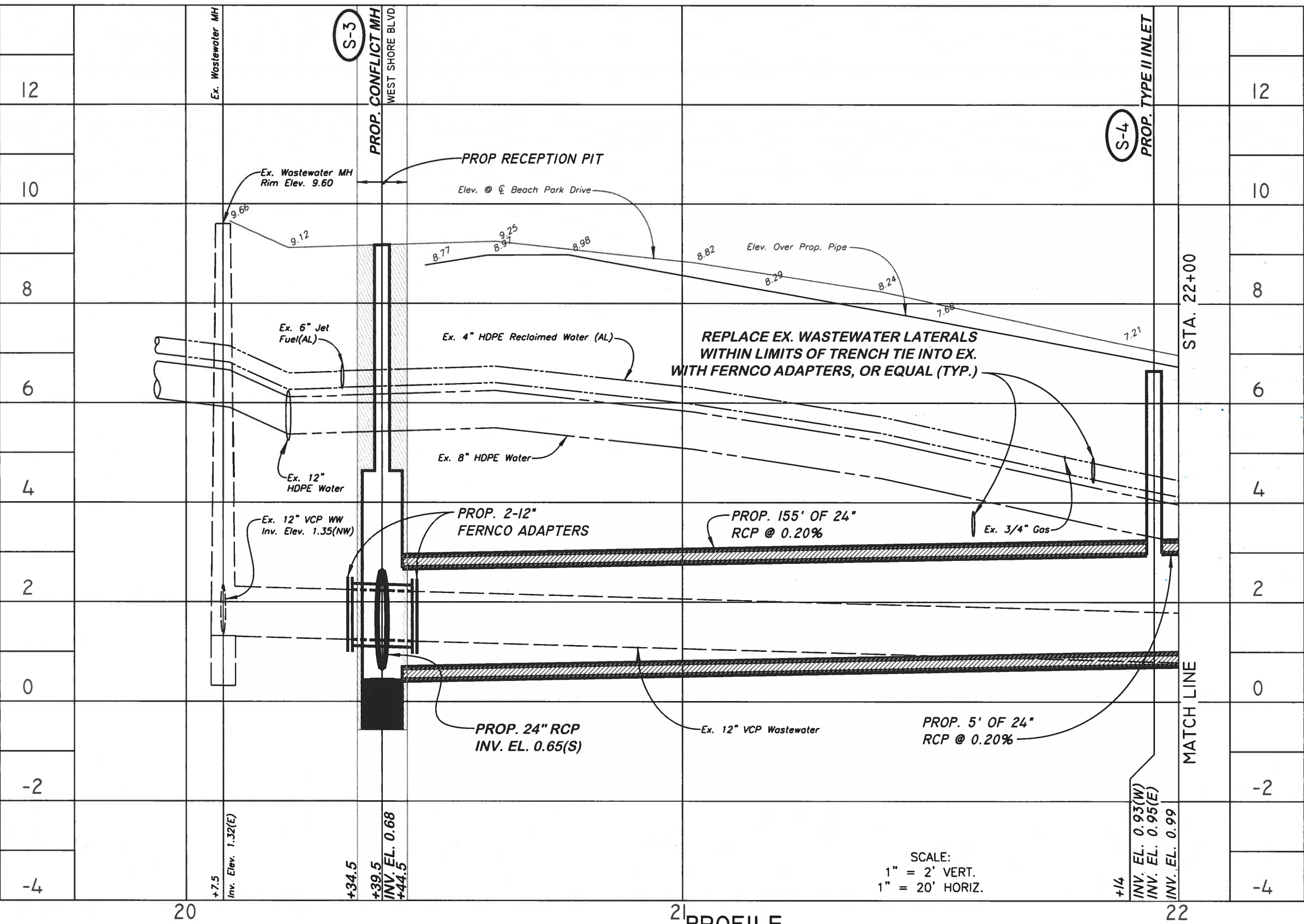
**S-4** PROP. TYPE II INLET, STA. 21+95, 10' LT.  
(BEACH PARK B/L) TOP ELEV. 7.6  
THROAT ELEV. 6.4, EX. EOP ELEV. 7.0±  
24" RCP INV. ELEV. =0.93 (W)  
24" RCP INV. ELEV. =0.95 (E)

**—PROP. 5'**  
**OF 24" RCP**

REC 20 T20C B'9E

## PLAN

No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES: Y.P.	 CITY of TAMPA Mobility Department Stormwater Engineering Division	BEACH PARK STORMWATER DRAINAGE IMPROVEMENTS PLAN VIEW - WEST BEACH PARK DRIVE	SHEET 10 OF 21
3			6			DRN: BB			
2			5			CKD: BGR			
1			4			DATE: 4-2021			



PROFILE

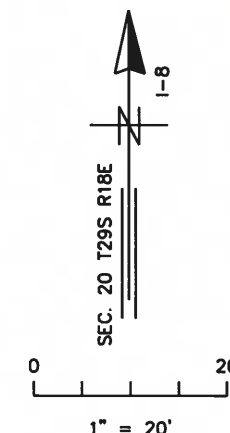
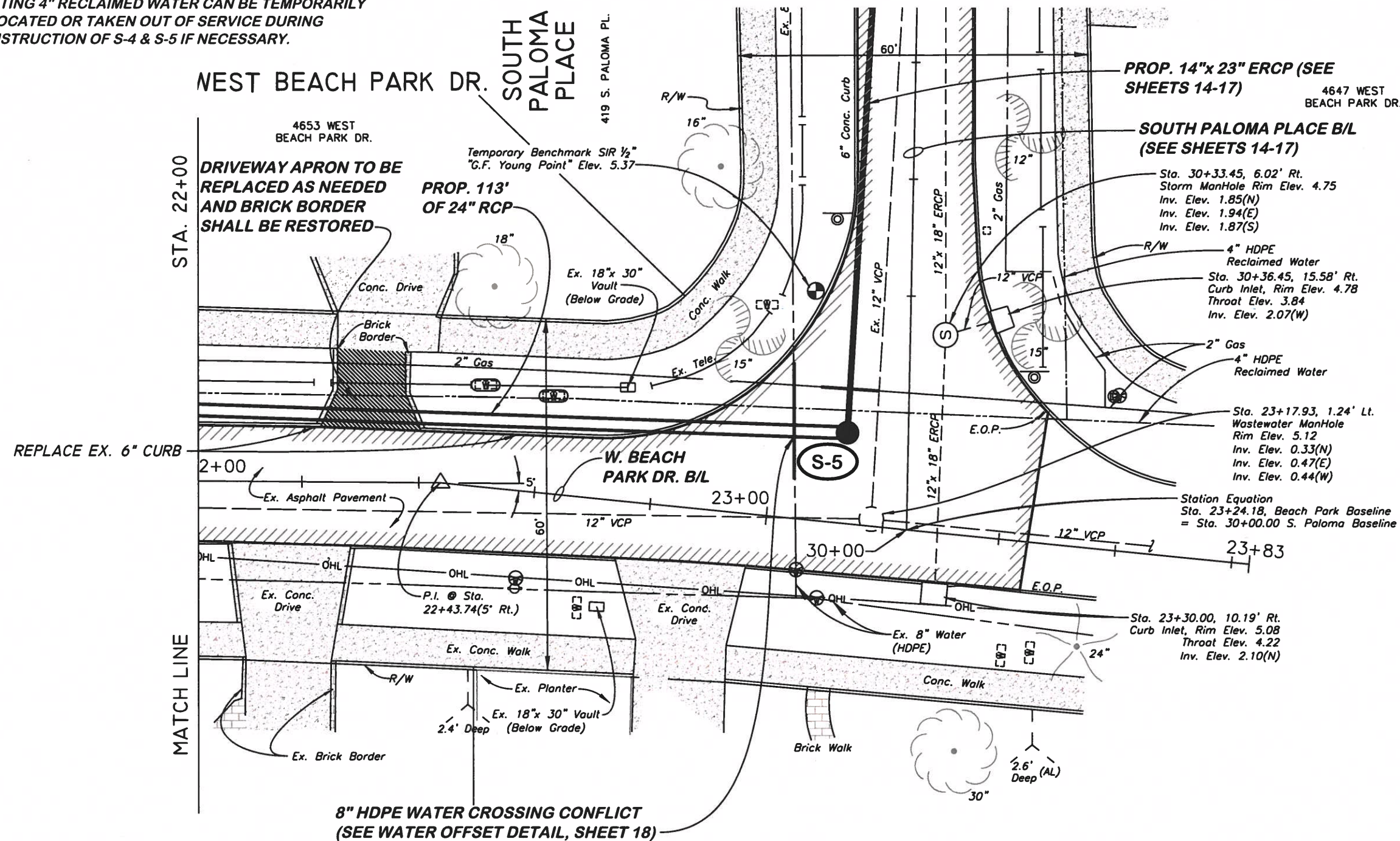
No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES:	CITY of TAMPA	BEACH PARK	SHEET
3			6			Y.P.	Mobility Department	STORMWATER DRAINAGE IMPROVEMENTS	11
2			5			BB	Stormwater Engineering Division	PROFILE - WEST BEACH PARK DRIVE	OF 21
1			4			CKD: A-2021			
						DATE:			



**NOTE:**

EXISTING 4" RECLAIMED WATER CAN BE TEMPORARILY  
RELOCATED OR TAKEN OUT OF SERVICE DURING  
CONSTRUCTION OF S-4 & S-5 IF NECESSARY.

SW 2021-05



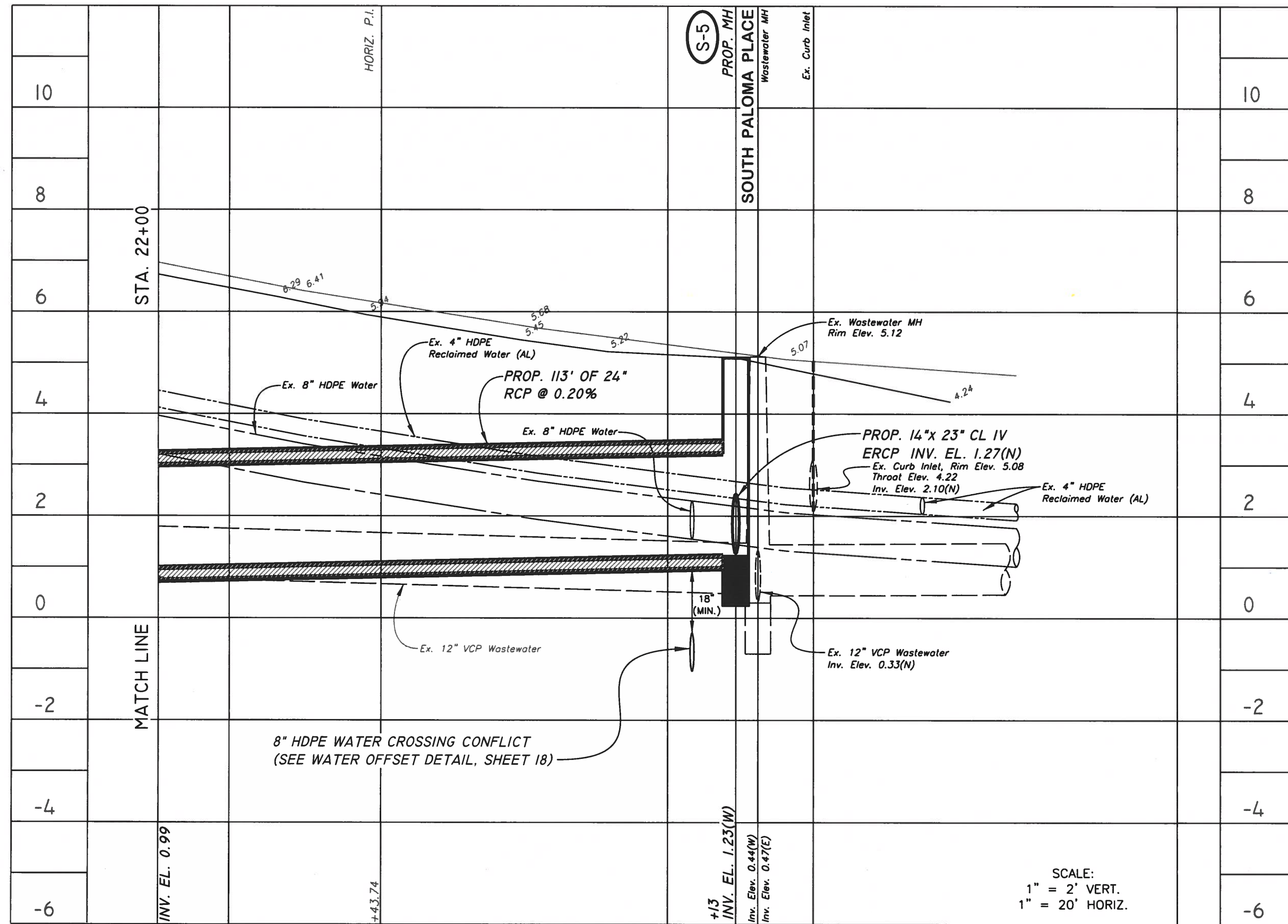
**LEGEND:**

- WATER SERVICES TO BE ADJUSTED  
(4653 BEACH PARK x2)
- HATCHED DRIVEWAYS TO BE REPLACED  
IN-KIND AND MATCH EX. ELEVATIONS
- HATCHED AREA REPRESENTS LIMITS OF  
MILLING AND RESURFACING.

**PLAN**

**S-5** PROP. STORM WATER MANHOLE  
STA. 23+13, 15.5' LT.  
(BEACH PARK B/L) TOP ELEV. = 5.10  
14"x23" ERCP INV. ELEV. = 1.27 (N)  
24" RCP INV. ELEV. = 1.23 (W)

No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES:	CITY of TAMPA	BEACH PARK	SHEET
3			6			Y.P.	Mobility Department	STORMWATER DRAINAGE IMPROVEMENTS	12
2			5			BB	Stormwater Engineering Division	PLAN VIEW - WEST BEACH PARK DRIVE	OF 21
1			4			DATE: 1/25/2021			



SCALE:  
1" = 2' VERT.  
1" = 20' HORIZ.

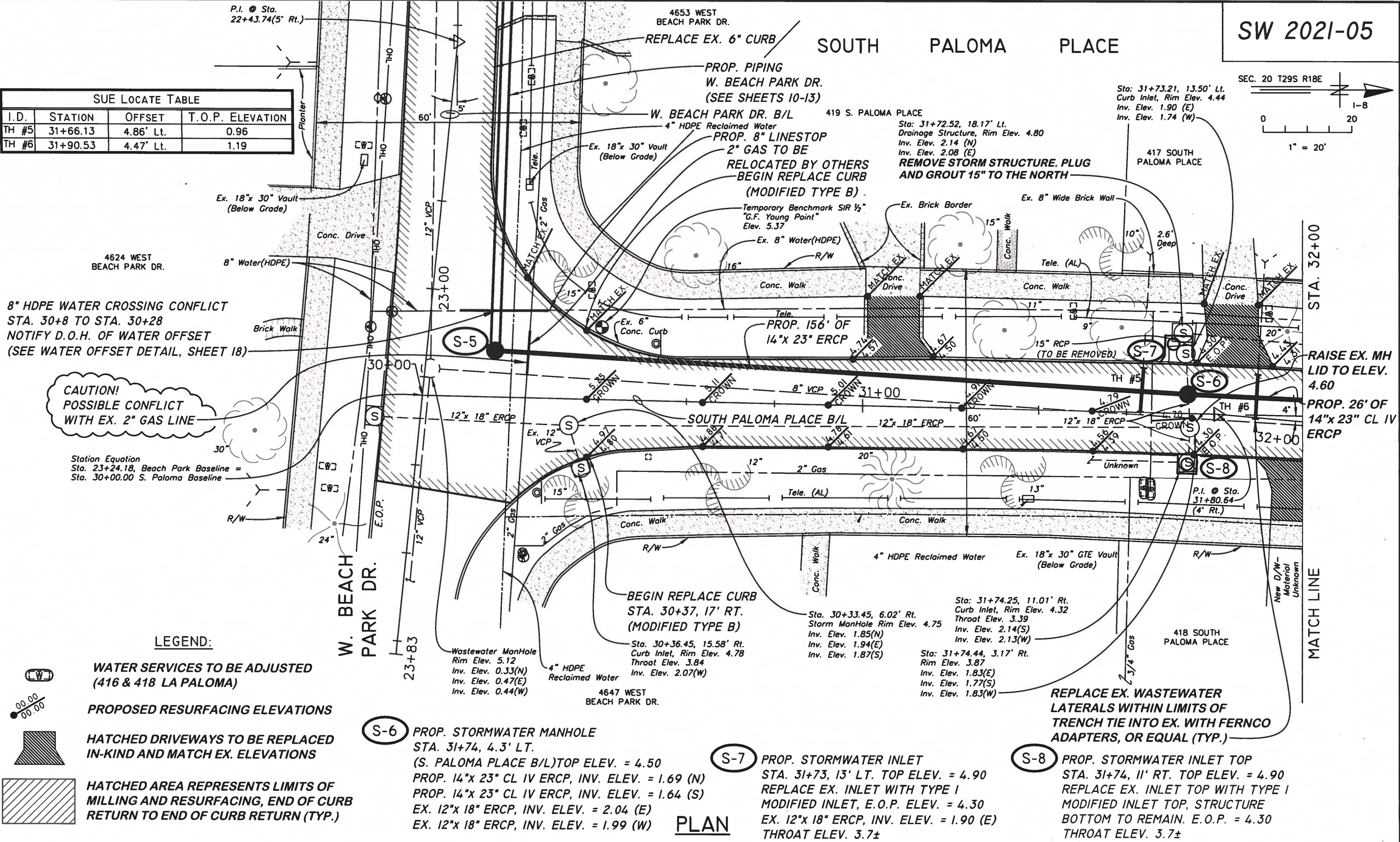
23 PROFILE

No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES: Y.P.	CITY of TAMPA	BEACH PARK	SHEET
3			6			DRN: BB	Mobility Department	STORMWATER DRAINAGE IMPROVEMENTS	13
2			5			CKD: [Signature]	Stormwater Engineering Division	PROFILE - WEST BEACH PARK DRIVE	of 21
1			4			DATE: 4-20-2021			

FILED DATE: 11/15/2021, April 24, 2021



SUE LOCATE TABLE			
I.D.	STATION	OFFSET	T.O.P. ELEVATION
TH #5	31+66.13	4.86' Lt.	0.96
TH #6	31+90.53	4.47' Lt.	1.19



**LEGEND:**

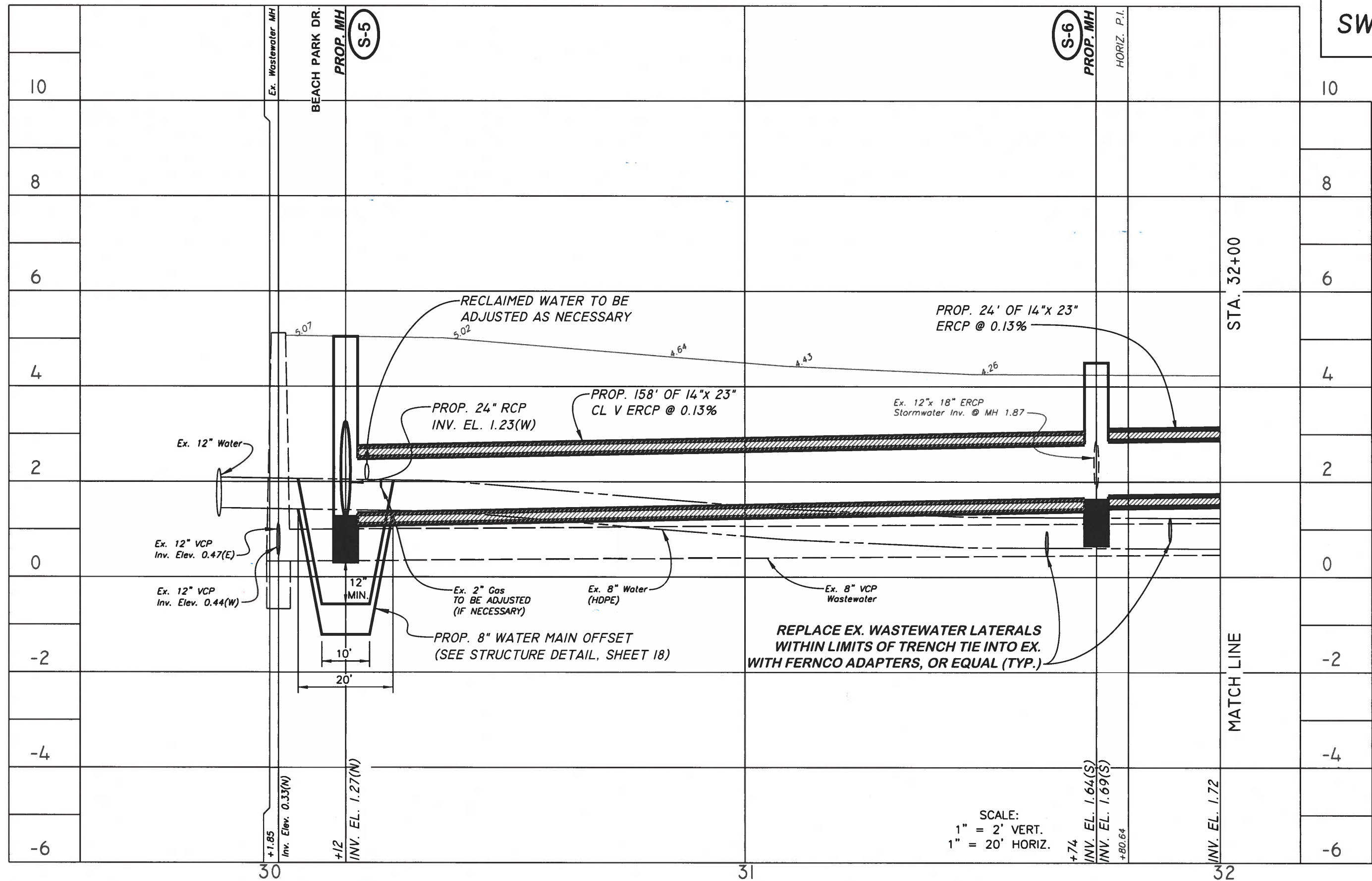
- WATER SERVICES TO BE ADJUSTED (416 & 418 LA PALOMA)**
- PROPOSED RESURFACING ELEVATIONS**
- HATCHED DRIVEWAYS TO BE REPLACED IN-KIND AND MATCH EX. ELEVATIONS**
- HATCHED AREA REPRESENTS LIMITS OF MILLING AND RESURFACING, END OF CURB RETURN TO END OF CURB RETURN (TYP.)**

- S-6** PROP. STORMWATER MANHOLE STA. 31+74, 4.3' LT. (S. PALOMA PLACE B/L) TOP ELEV. = 4.50  
PROP. 14"x 23" CL IV ERCP, INV. ELEV. = 1.69 (N)  
PROP. 14"x 23" CL IV ERCP, INV. ELEV. = 1.64 (S)  
EX. 12"x 18" ERCP, INV. ELEV. = 2.04 (E)  
EX. 12"x 18" ERCP, INV. ELEV. = 1.99 (W)
- S-7** PROP. STORMWATER INLET STA. 31+73, 13' LT. TOP ELEV. = 4.90  
REPLACE EX. INLET WITH TYPE I MODIFIED INLET, E.O.P. ELEV. = 4.30  
EX. 12"x 18" ERCP, INV. ELEV. = 1.90 (E)  
THROAT ELEV. 3.7±
- S-8** PROP. STORMWATER INLET TOP STA. 31+74, 11' RT. TOP ELEV. = 4.90  
REPLACE EX. INLET TOP WITH TYPE I MODIFIED INLET TOP, STRUCTURE BOTTOM TO REMAIN. E.O.P. = 4.30  
THROAT ELEV. 3.7±

PLAN

No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES: Y.P.	CITY of TAMPA	BEACH PARK DRIVE	SHEET
3			6			DRN: BB	Mobility Department	STORMWATER IMPROVEMENTS	14
2			5			CKD: [Signature]	Stormwater Engineering Division	PLAN VIEW - SOUTH PALOMA PLACE	OF 21
1			4			DATE: [Signature]			





PROFILE

No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES: Y.P.	CITY of TAMPA	BEACH PARK	SHEET
3			6			DRN: BB	Mobility Department	STORMWATER DRAINAGE IMPROVEMENTS	15
2			5			CKD: [Signature]	Stormwater Engineering Division	PROFILE - SOUTH PALOMA PLACE	OF 21
1			4			DATE: 4-22-21			

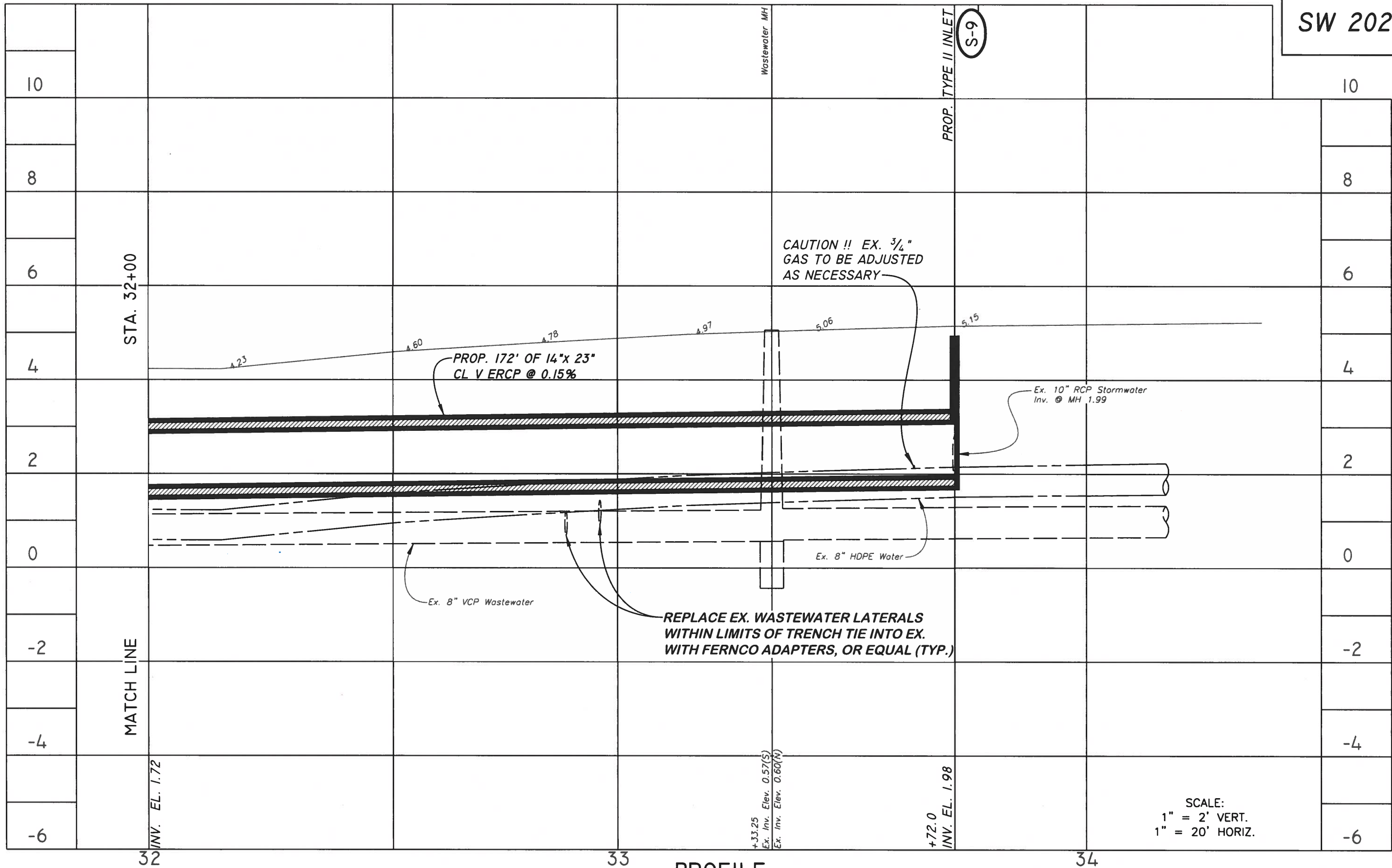






FILED DATE: 11/19/2021, April 22, 2021

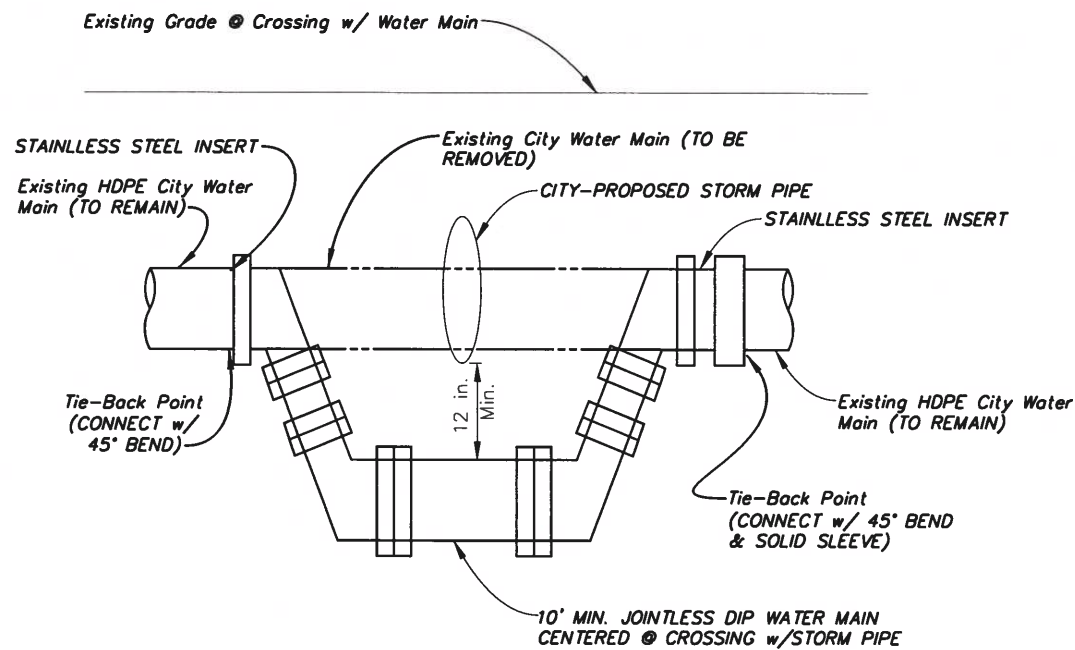
SW 2021-05



PROFILE

No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES: Y.P.	CITY of TAMPA Mobility Department Stormwater Engineering Division	BEACH PARK STORMWATER DRAINAGE IMPROVEMENTS PROFILE - SOUTH PALOMA PLACE	SHEET 17 OF 21
3			6		DRN: BB				
2			5		CKD: [Signature]				
1			4		DATE: 8-12-2021				



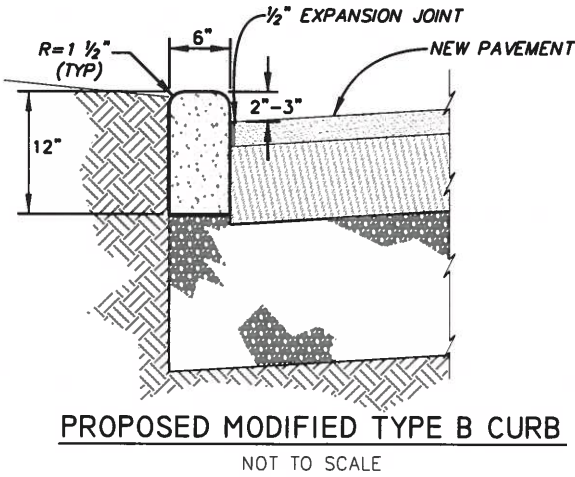


TYPICAL WATERMAIN OFFSET CONSTRUCTION DETAIL  
CITY OF TAMPA WATER DEPARTMENT

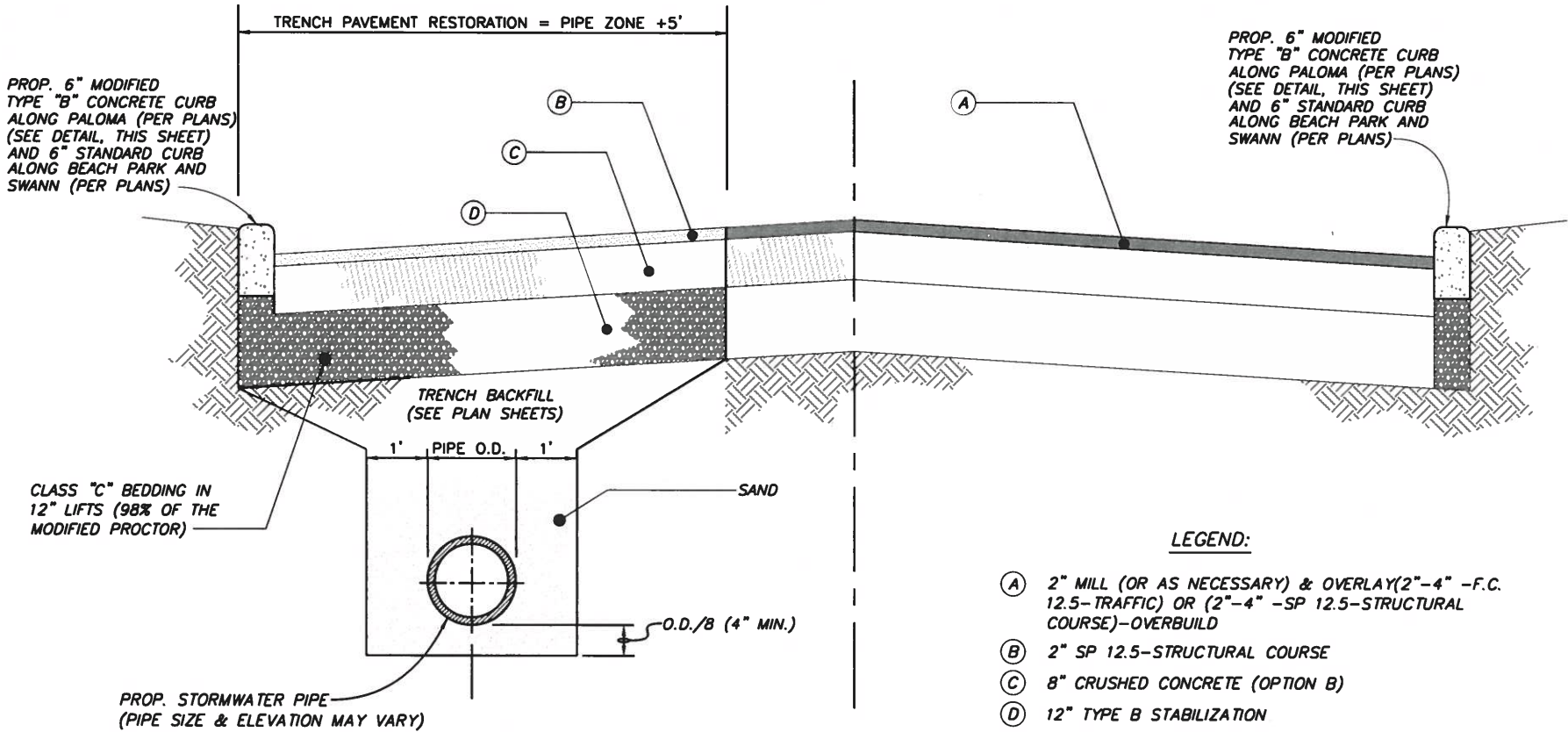
NOT TO SCALE  
TYPICAL MATERIALS REQUIRED:  
1 - SOLID SLEEVE, DI, MJ  
4 - 45° BENDS, DI, MJ  
18 LF OF D.I.P., PC350  
20 LF POLYETHYLENE ENCASEMENT, BLUE, 8-MIL  
10 EA MEGA-LUG RESTRAINTS  
2 STAINLESS STEEL INSERTS

CONSTRUCTION NOTES:

1. RESTRAIN ALL JOINTS OF PIPE AND FITTINGS INSTALLED
2. RESTRAIN ALL JOINTS OF EXISTING WATERMAIN PIPE WITHIN 24/30 ft. OF THE TIE-BACK POINTS AS REQUIRED
3. INSTALL WATERMAIN TO CROSS 12 in. MINIMUM BELOW PROPOSED STORM PIPE
4. POLYWRAP ALL NEW D.I. PIPE & FITTINGS INSTALLED
5. NEW OFFSET WILL INCLUDE A CHLORINE INJECTION AND SAMPLE TAP TO BE DETERMINED BY CONSTRUCTION ENGINEER.



NOTE:  
-SEE PLANS FOR ELEVATIONS FOR TOP OF CURB AND E.O.P.



TYPICAL PAVEMENT SECTION  
URBAN AREAS - CLASS I  
NOT TO SCALE

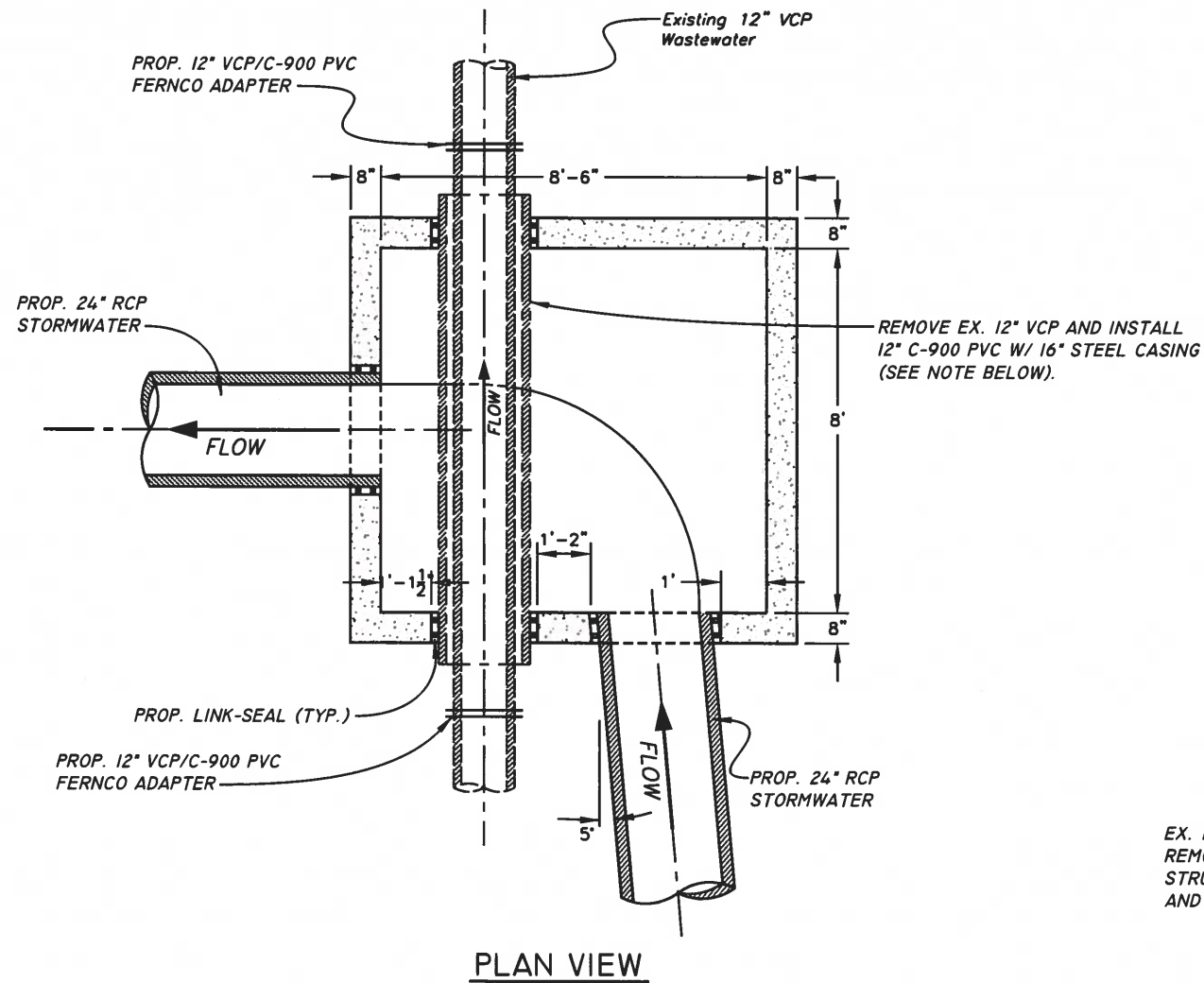
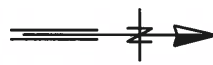
- LEGEND:
- (A) 2" MILL (OR AS NECESSARY) & OVERLAY(2"-4" -F.C. 12.5-TRAFFIC) OR (2"-4" -SP 12.5-STRUCTURAL COURSE)-OVERBUILD
  - (B) 2" SP 12.5-STRUCTURAL COURSE
  - (C) 8" CRUSHED CONCRETE (OPTION B)
  - (D) 12" TYPE B STABILIZATION

No.	DATE	REVISIONS	No.	DATE	REVISIONS
3			6		
2			5		
1			4		

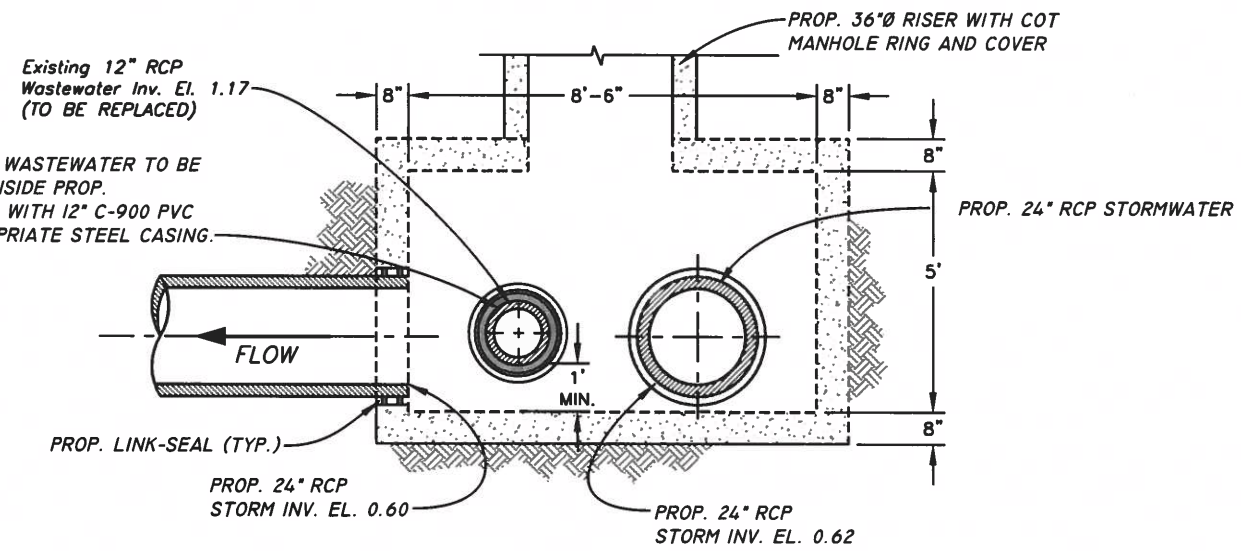
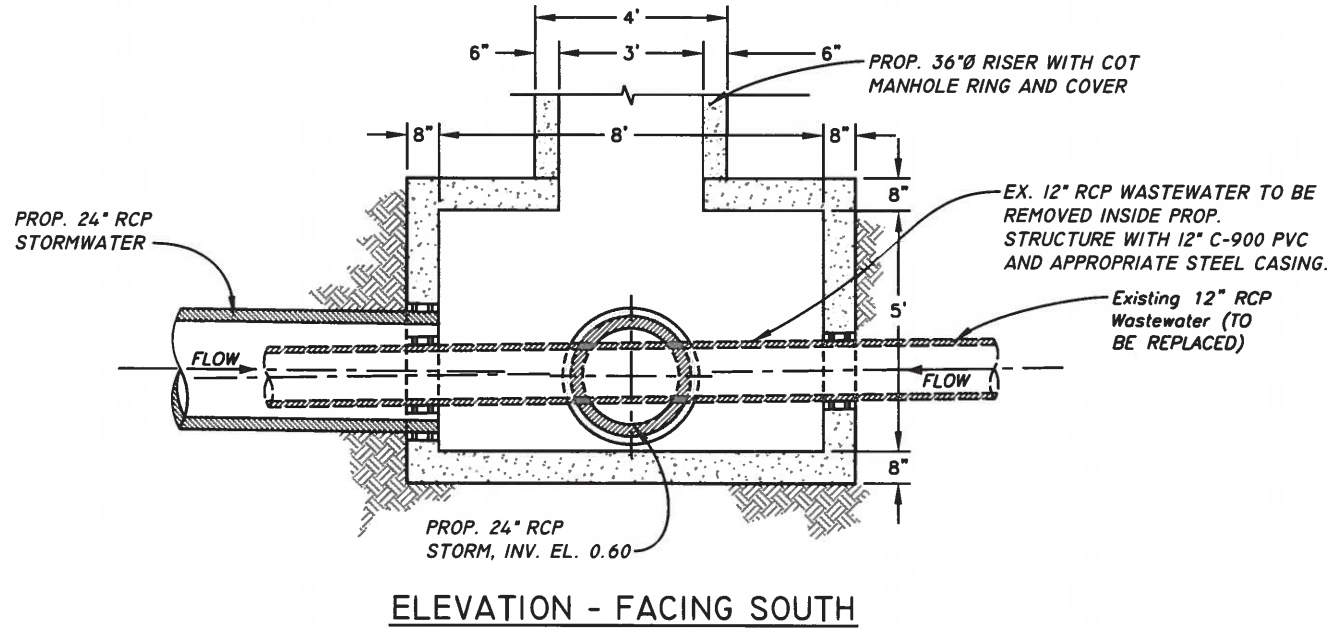
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DRN: BB  
CKD: BB  
DATE: 1-2021

CITY of TAMPA  
Mobility Department  
Stormwater Engineering Division

BEACH PARK  
STORMWATER DRAINAGE IMPROVEMENTS  
MISCELLANEOUS DETAILS



**NOTE:**  
REPLACE 12" VCP INSIDE STRUCTURE. TIE-IN OUTSIDE WITH FERNCO ADAPTERS WITH C-900 PVC. INSTALL STEEL CASING WITHIN STRUCTURE, NO SPACERS, AND FILL ANNULAR SPACE WITH GROUT. SEE GROUT SPECIFICATIONS IN BID DOCUMENTS.



**PROPOSED CONFLICT STRUCTURE**  
SCALE: 1/4" = 1'-0"

**ELEVATION - FACING WEST**

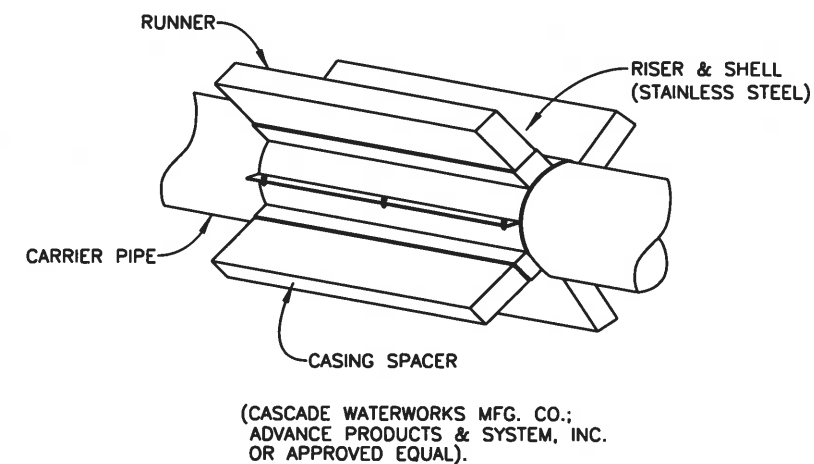
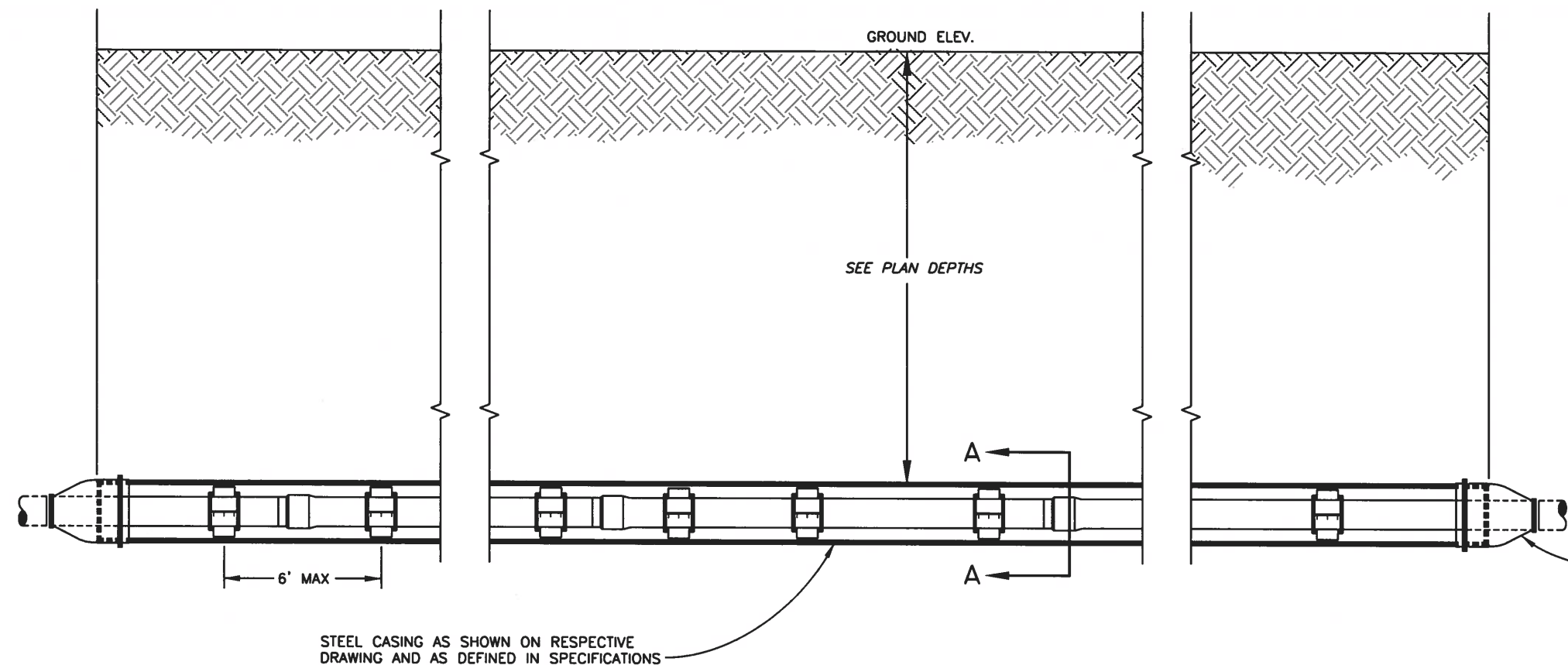
No.	DATE	REVISIONS	No.	DATE	REVISIONS
3			6		
2			5		
1			4		

DES: Y.P.  
DRN: BB  
CKD: [Signature]  
DATE: 8-20-21

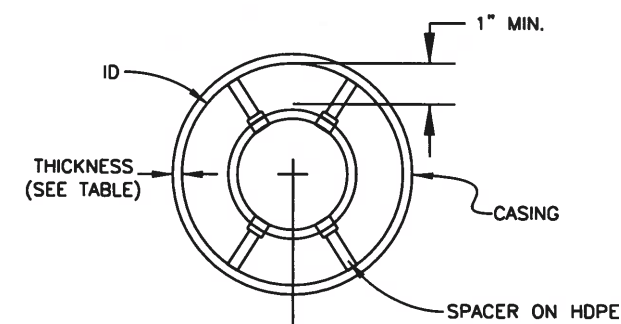
**CITY of TAMPA**  
Mobility Department  
Stormwater Engineering Division

BEACH PARK  
STORMWATER DRAINAGE IMPROVEMENTS  
CONFLICT STRUCTURE DETAILS





RUBBER END SEAL SECURED WITH STAINLESS STEEL BANDS AT EACH END OF CASING PIPE. (CASCADE WATERWORKS MFG. CO. MODEL CCES END SEALS, ADVANCE PRODUCTS & SYSTEM, INC. END SEAL OR APPROVED EQUAL)



SECTION A-A

USE A MINIMUM OF 3 STAINLESS STEEL CASING SPACERS CENTERED ON EACH PIPE LENGTH, TIMBER SKIDS ARE OPTIONAL.

NOTES:

1. VERTICAL DIMENSIONS TYPICAL FOR CASINGS
2. CASING PIPE SHALL CONFORM TO THE REQUIREMENTS OF AWWA C-200 AND ASTM-139, GRADE B.
3. CASING PIPE SHALL BE SLOPED TO ONE END, SEE PLAN SHEETS.
4. SEE GROUT AND STAINLESS STEEL PIPE REQUIREMENTS IN BID DOCUMENTS.

CORRESPONDING CARRIER AND CASING PIPE SIZE	
NOMINAL INSIDE DIAMETER OF CARRIER PIPE (INCHES)	24"
MINIMUM INSIDE DIAMETER OF CASING PIPE (INCHES)	36"
MIN. CASING THICKNESS CITY, COUNTY & FDOT	1/2"

No.	DATE	REVISIONS	No.	DATE	REVISIONS
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DES: Y.P.  
DRN: BB  
CKD: [Signature]  
DATE: 1/20/21

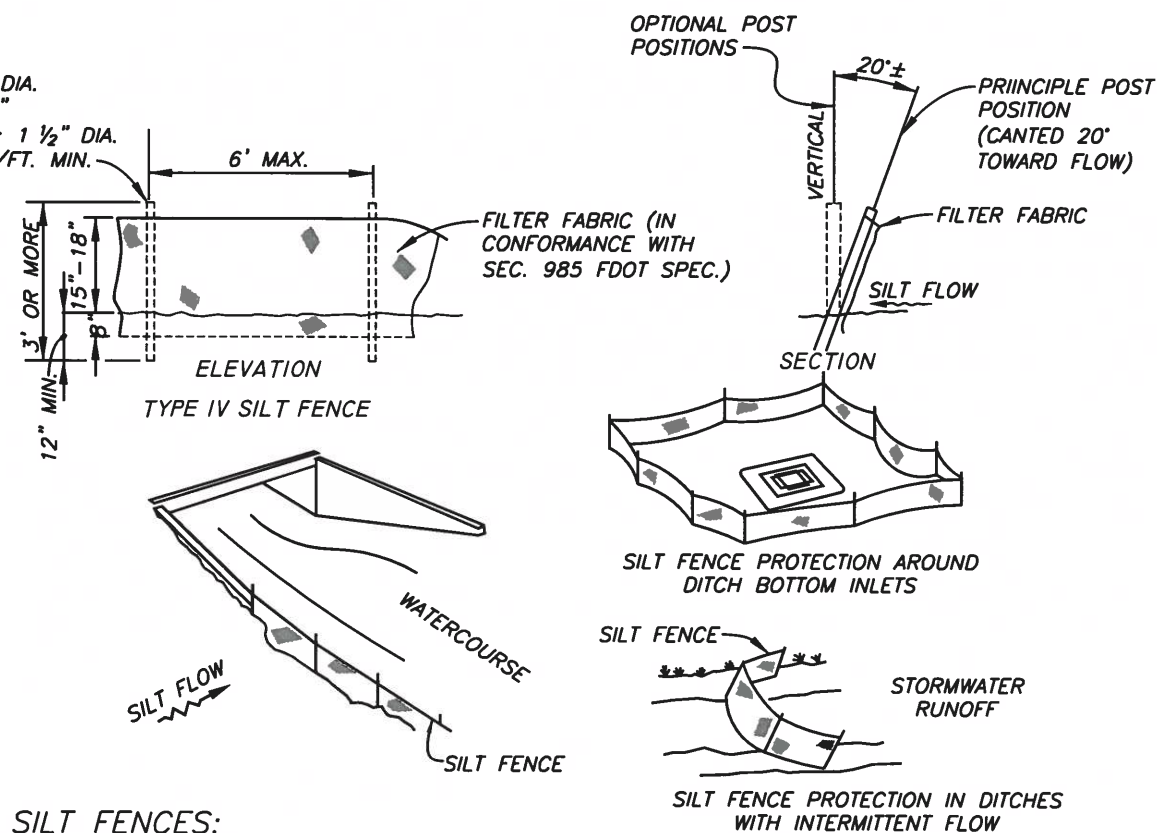
**CITY of TAMPA**  
Mobility Department  
Stormwater Engineering Division

BEACH PARK  
STORMWATER DRAINAGE IMPROVEMENTS  
JACK AND BORE DETAILS

SHEET  
**20**  
OF 21

FILED DATE: TUESDAY, APRIL 13, 2021

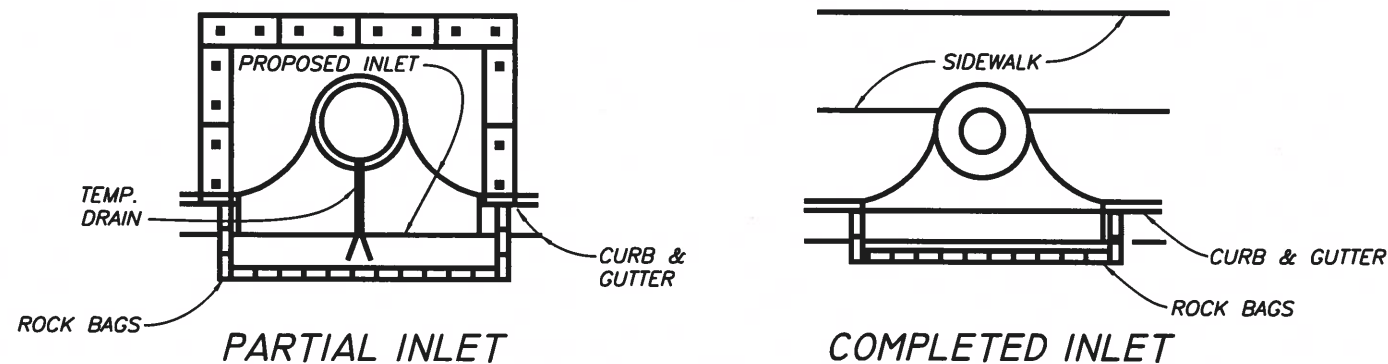
POST OPTIONS:  
SOFTWOOD 2 1/2" DIA.  
SOFTWOOD 2"x 4"  
HARDWOOD 1 1/2"x 1 1/2" DIA.  
STEEL 1.33 LBS./FT. MIN.



NOTES FOR SILT FENCES:

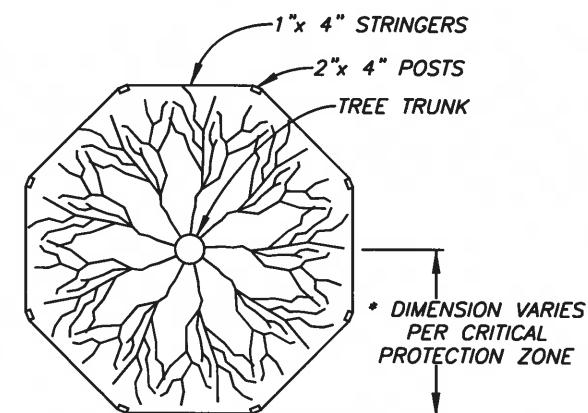
1. TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS. TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 1:2 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25 FEET. AVOID WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.
2. DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
3. WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.

SILT FENCE DETAIL  
NOT TO SCALE

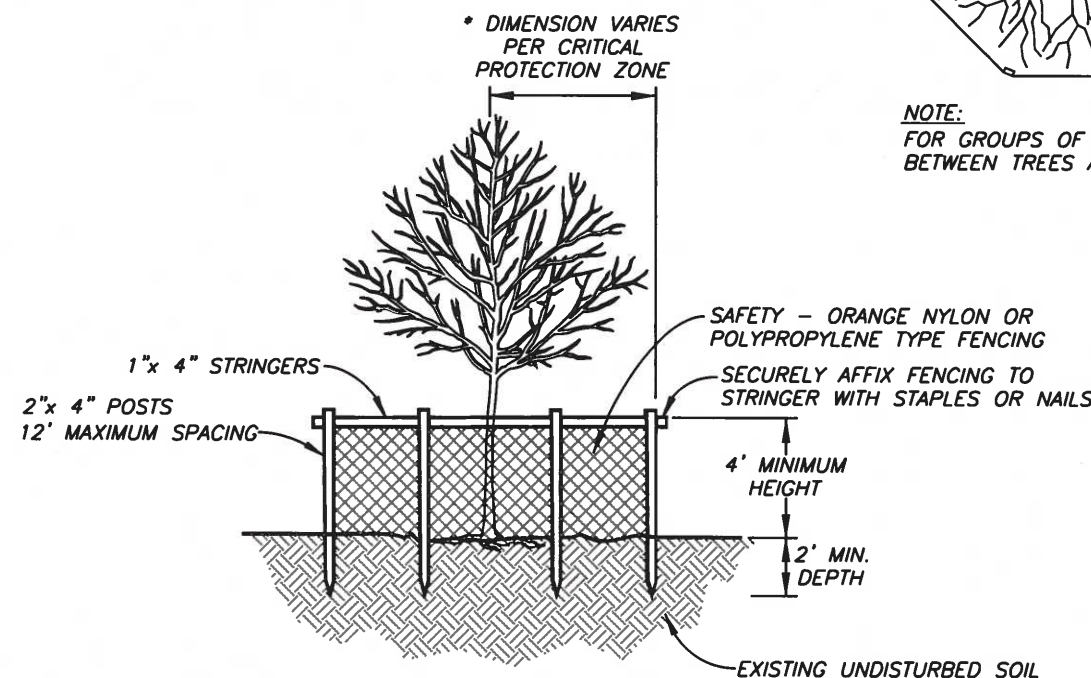


NOTE:  
INSTALL FDOT INLET PROTECTION OR APPROVED EQUAL

INLET PROTECTION DETAIL  
NOT TO SCALE



NOTE:  
FOR GROUPS OF TREES, PLACE BARRICADES BETWEEN TREES AND CONSTRUCTION ACTIVITY.



TREE PROTECTION DETAIL  
NOT TO SCALE

NOTE:  
CRITICAL PROTECTION ZONE: THE AREA SURROUNDING A TREE WITHIN 'A' CIRCLE DESCRIBED BY 'A' RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE TRUNK DIAMETER AT 54" ABOVE FINISHED GRADE. FOR GROUPS OF TREES, PLACE BARRICADES BETWEEN TREES AND CONSTRUCTION ACTIVITY.

\* TREE PROTECTION BARRICADES SHALL BE LOCATED TO PROTECT A MINIMUM OF 75% OF THE CRITICAL PROTECTION ZONE.

No.	DATE	REVISIONS	No.	DATE	REVISIONS	DES: Y.P.	CITY of TAMPA	BEACH PARK	SHEET
3			6			DRN: BB	Mobility Department	STORMWATER DRAINAGE IMPROVEMENTS	21
2			5			CKD: [Signature]	Stormwater Engineering Division	EROSION CONTROL DETAILS	OF 21
1			4			DATE: 2-10-21			