



City of Tarpon Springs, Florida  
 324 East Pine Street  
 Tarpon Springs, Florida 34688-5004

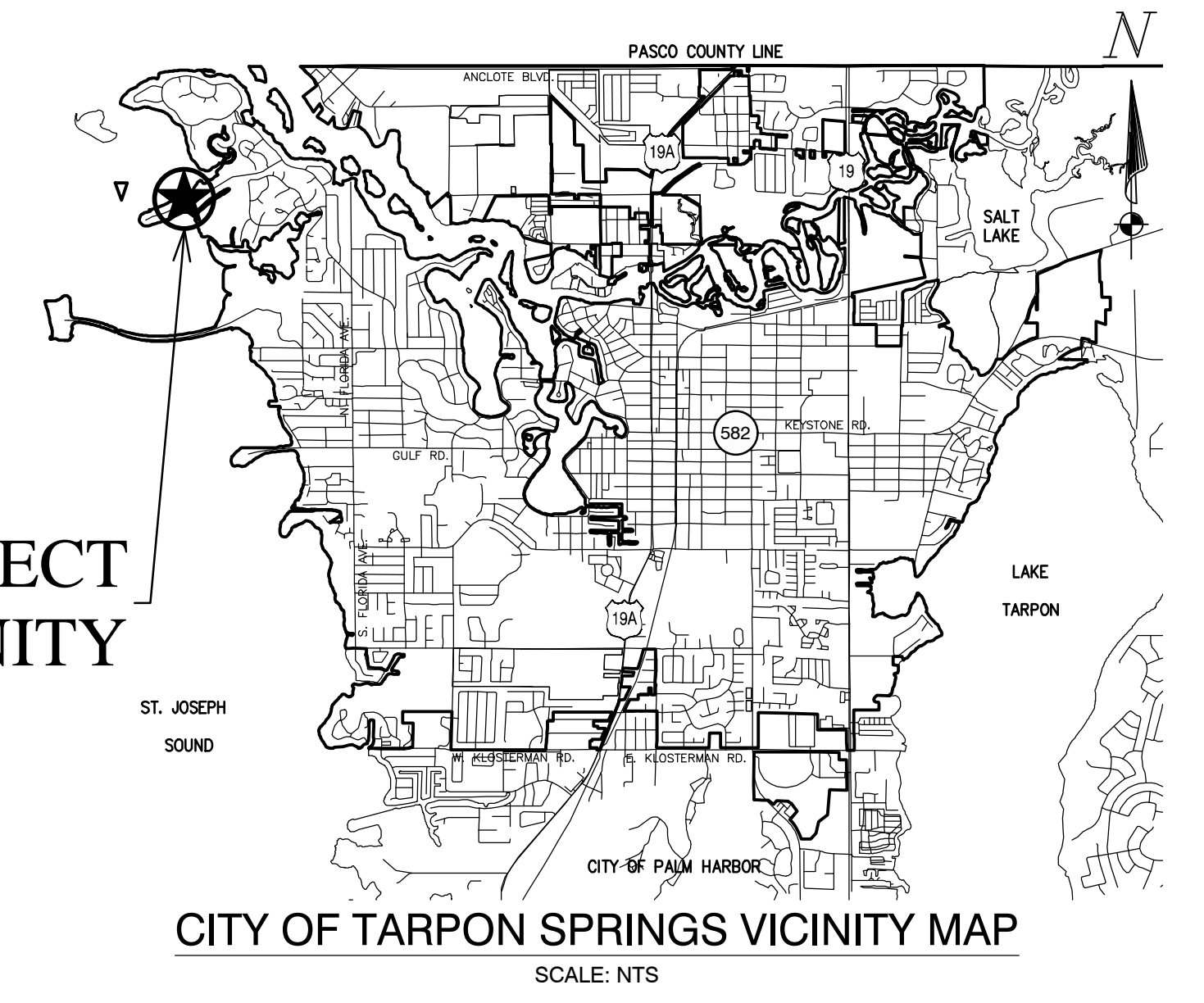
**CITY OF TARPON SPRINGS  
 ENGINEERING SERVICES & UTILITIES**

**SEABREEZE DRIVE SANITARY SEWER PROJECT**

SECTIONS 3, TOWNSHIP 27 S, RANGE 15 E

CITY PROJECT NO: WS1720

PROJECT VICINITY



THE BOARD OF CITY COMMISSIONERS

- |                   |              |
|-------------------|--------------|
| CHRIS ALAHOZOS    | MAYOR        |
| JACOB KARR        | VICE MAYOR   |
| TOWNSEND TARAPANI | COMMISSIONER |
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| COSTA VATIKIOTIS  | COMMISSIONER |

PLANS PREPARED BY:

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LOCATION MAP  
 SCALE: NTS

FOR:

**CITY OF TARPON SPRINGS  
 ENGINEERING SERVICES & UTILITIES  
 324 EAST PINE STREET  
 P.O. BOX 5004  
 TARPON SPRINGS, FLORIDA 34688-5004**

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NO.	DATE	REVISION	BY

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**50% SUBMITTAL**

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 05/01/20

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

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**GENERAL NOTES**

1. 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 WILL BE BASED.
2. THE CONTRACTOR SHALL NOTIFY THE CITY'S REPRESENTATIVE IMMEDIATELY TO REPORT ANY CONFLICTS BETWEEN WHAT IS SHOWN HEREIN AND ACTUAL CONDITIONS DISCOVERED DURING CONSTRUCTION.
3. THE CONTRACTOR, WORKING WITH THE CITY, SHALL COORDINATE THE SHUTDOWN, STARTUP AND/OR PARTIAL INTERFERENCE WITH ONGOING SYSTEM OPERATIONS. SEE THE CONTRACT SPECIAL PROJECT PROCEDURES FOR SPECIFIC REQUIREMENTS.
4. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ALL SAFETY PROCEDURES AND REQUIREMENTS. SPECIAL ATTENTION SHALL BE PAID TO OSHA CONFINED SPACE ENTRY REQUIREMENTS.
5. ALL PRACTICABLE EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT MATERIALS TO INLETS, SURFACE DRAINS, WETLANDS AND LAKE AREAS, PER SWFWM "BEST MANAGEMENT PRACTICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION EFFORTS THAT MAY BE REQUIRED.
6. THE CONTRACTOR SHALL CONTROL ALL FUGITIVE DUST ORIGINATING FROM THE PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
7. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS HAVE BEEN ESTABLISHED BASED ON BEST AVAILABLE INFORMATION AT THE TIME OF THE PREPARATION OF THE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT SIZE, LOCATION, DEPTH AND HEIGHT OF ALL UNDERGROUND AND OVERHEAD UTILITIES WHICH MAY BE WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY FAILURE TO COMPLY WITH THESE INSTRUCTIONS.
8. THE MINIMUM HORIZONTAL SEPARATION BETWEEN POTABLE WATER MAINS AND SANITARY SEWERS SHALL BE 6'-FEET FACE-TO-FACE UNLESS OTHERWISE SPECIFICALLY CALLED OUT ON THE DRAWINGS OR ALLOWED BY THE PROJECT PERMITS. ALTERNATE PIPE MATERIAL OR CONCRETE ENCASEMENT SHALL BE UTILIZED AS SHOWN ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.
9. THE MINIMUM VERTICAL SEPARATION BETWEEN THE PROPOSED MAINS AND ALL OTHER UTILITY CROSSINGS SHALL BE 12 INCHES FACE-TO-FACE UNLESS OTHERWISE SPECIFICALLY CALLED OUT ON THE DRAWINGS.
10. WHERE THE MINIMUM REQUIRED VERTICAL SEPARATION CANNOT BE MAINTAINED BETWEEN WATER AND SEWER UTILITIES, THE CROSSING SHALL BE ARRANGED SUCH THAT THE NEW MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10 FEET BETWEEN ANY TWO JOINTS.
11. A 36" MINIMUM DEPTH OF COVER SHALL BE PROVIDED UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.
12. THE CONTRACTOR SHALL PROVIDE SUPPORT FOR UTILITY POLES WHERE CONSTRUCTION MAY CAUSE THE POLE TO LOSE ITS SUPPORT. CONTRACTOR SHALL COORDINATE WITH POWER COMPANY TO SUPPORT POLES AS NECESSARY FOR CONSTRUCTION OF FACILITIES.
13. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED SHEETING AND TRENCH SHORING REQUIRED TO PROTECT PRIVATE PROPERTY EXISTING UTILITIES AND OTHER FACILITIES INTENDED TO REMAIN IN SERVICE.
14. THE CONTRACTOR SHALL EMPLOY THE SERVICES OF A SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO ESTABLISH THE PROPOSED PIPELINE, RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEVATION), CENTER LINES AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.
15. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, TO REFERENCE AND RESTORE PROPERTY CORNERS, CITY OF TARPON SPRINGS AND PINELLAS COUNTY LANDMARKS/BENCHMARKS WHICH MAY BE DISTURBED BY CONSTRUCTION. KNOWN CORNER LOCATIONS ARE SHOWN ON THE DRAWINGS. OTHER CORNERS AND LANDMARKS DISCOVERED DURING CONSTRUCTION WILL ALSO BE RESTORED.
16. THE CONTRACTOR SHALL COMPLY WITH THE "TRENCH SAFETY ACT", CHAPTER 90-96, FLORIDA STATUTES. THE CONTRACTOR SHALL INSTALL BARRIER WALLS, SHEETING, SHORING, ETC. THAT COMPLIES WITH THE LATEST FDOT STANDARDS AND OSHA REQUIREMENTS AROUND ALL EXCAVATION PITS
17. THE CONTRACTOR SHALL NOTIFY AND CALL "SUNSHINE STATE ONE CALL" AT 1-800-432-4770 PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL FURTHER COORDINATE WITH UTILITY COMPANIES TO RESOLVE CONFLICTS WHICH MAY ARISE IN THE FIELD DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES AT LEAST 72 HOURS PRIOR TO EXCAVATION.
18. CONFLICTS ARISING FROM EXISTING UTILITIES SHALL BE BROUGHT TO THE CITY REPRESENTATIVE'S ATTENTION IMMEDIATELY.
19. ALL DISTURBED GRASS AREAS SHALL BE RESTORED WITH SOLID SOD UNLESS OTHERWISE NOTED OR DIRECTED BY THE CITY'S REPRESENTATIVE. ALL TREES, SHRUBS AND LANDSCAPING REQUIRED TO BE REMOVED FOR THE INSTALLATION OF THE NEW UTILITIES SHALL BE RESTORED BY THE CONTRACTOR.
20. SPECIAL PIPE FOUNDATIONS, IF REQUIRED, SHALL BE DETERMINED IN THE FIELD AND THE TYPE REQUIRED WILL BE AS DIRECTED BY THE CITY'S REPRESENTATIVE.
21. FINISHED GRADE FOR GROUND ELEVATIONS ON DRAWINGS REFER TO GRADE AFTER SODDING.
22. ALL WORK SHOWN ON THESE DRAWINGS IS TO BE CONSTRUCTED WITHIN PUBLIC RIGHTS-OF-WAY, EASEMENTS OF RECORD OR CITY OF TARPON SPRINGS OWNED PROPERTY. ANY CONFLICT BETWEEN PUBLIC RIGHT-OF-WAY, EASEMENTS OF RECORD OR CITY OF TARPON SPRINGS OWNED PROPERTY AS SHOWN ON THE DRAWINGS AND THOSE ESTABLISHED IN THE FIELD SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CITY'S REPRESENTATIVE FOR RESOLUTION.
23. SIDEWALKS, DRIVEWAYS AND CURBING DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH THE CITY OF TARPON SPRINGS STANDARDS. SIDEWALKS REMOVED AND REPLACED IN CURB AND GUTTER AREAS AT INTERSECTIONS SHALL HAVE HANDICAP RAMPS INSTALLED. DRIVEWAYS AND SIDEWALKS SHALL BE SAWCUT ALONG THE RIGHT-OF-WAY LINE OR NEAREST JOINT AND REMOVED AND REPLACED TO THE EDGE OF THE STREET.
24. ALL SIDEWALK RECONSTRUCTION SHALL BE HANDICAP ACCESSIBLE AND SHALL MEET OR EXCEED THE MOST RECENT ADA STANDARDS.
25. CONTRACTOR SHALL PROVIDE "AS-BUILT" ELEVATIONS AND LOCATIONS FOR THE FOLLOWING, WHICH INCLUDE, BUT IS NOT LIMITED TO: AT MINIMUM, EVERY 100 FEET AND AT ANY GRADE CHANGES OR DIRECTION CHANGES OF THE PROPOSED UTILITIES; ALL PIPE INVERTS INTO EXISTING STRUCTURES; BOTTOM OF ALL MANHOLES AND; ELEVATIONS AND LOCATIONS OF EACH EXISTING UTILITY CROSSING ANY PROPOSED UTILITY.
26. THE ELEVATIONS SHOWN FOR CLEANOUTS AT THE RIGHT-OF-WAY SHALL BE TAKEN AS APPROXIMATE ELEVATIONS ONLY. THE CONTRACTOR SHALL ADJUST THE ELEVATION OF THE CLEANOUT AS NECESSARY TO ALLOW FOR CONNECTION OF THE SERVICE LATERAL AT THE MINIMUM SLOPE AS SHOWN ON THE DRAWINGS.
27. RIM ELEVATIONS SHOWN ON THE MANHOLES SHALL BE FIELD ADJUSTED BY THE CONTRACTOR IN ORDER TO BE INSTALLED FLUSH WITH THE RESTORED ASPHALT ROADWAY.
28. ALL WORK WITHIN THE CITY RIGHT OF WAY SHALL ADHERE TO CITY OF TARPON SPRINGS STANDARD SPECIFICATIONS AND DETAILS. IN CASES WHEN A CITY DETAIL OR STANDARD SPECIFICATION IS NOT AVAILABLE, THE CONTRACTOR SHALL DEFER TO PINELLAS COUNTY STANDARD SPECIFICATIONS AND DETAILS.

**TREE PROTECTION NOTES**

THE FOLLOWING ARE MINIMUM GUIDELINES FOR THE PROTECTION OF EXISTING TREES TO BE PRESERVED ON OR ADJACENT CITY PROJECT SITES.

1. ALL TREE PRUNING AND/OR ROOT PRUNING ON EXISTING TREES TO REMAIN SHALL ONLY BE PERFORMED UNDER THE DIRECT SUPERVISION OF THE CITY'S ARBORIST. TO CLARIFY, THE CITY'S ARBORIST SHALL BE ONSITE DURING ALL TREE TRIMMING, ROOT PRUNING, TREE REMOVAL, OR OTHER TREE WORK. FURTHERMORE, ALL TREE WORK SHALL CONFORM TO THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) 2001, AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS - TREE, SHRUB AND OTHER WOODY PLANT MAINTENANCE - STANDARD PRACTICES (PRUNING) ANSI A-300.
2. WHERE CALLED FOR ON THE PLANS, INSTALL TREE BARRICADES. EROSION CONTROL/SILT FENCING OR OTHER APPROVED PROTECTIVE BARRIERS AROUND ALL TREES TO BE PRESERVED, PER CITY STANDARD DETAIL. WHERE APPLICABLE PROTECTIVE BARRIERS SHALL BE PLACED IN ROOT PRUNE TRENCHES.
3. CONSTRUCTION MATERIALS, VEHICLES, EQUIPMENT, SOILS, DEBRIS AND SUPPLIES SHALL NOT BE STORED WITHIN THE DRIP LINE/PROTECTIVE BARRIER AREA UNDER ANY TREE TO REMAIN.
4. VEHICLES UNDER ANY TREE SHALL NOT BE PARKED WITHIN THE DRIP LINE/PROTECTIVE BARRIER AREA OF THE TREE.
5. WOODCHIPS, MULCH OR ANOTHER CUSHIONING SURFACE MATERIAL APPROVED BY THE CITY'S REPRESENTATIVE SHALL BE PLACED TO A MINIMUM DEPTH OF 10" OVER AREAS WHERE ROOTS ARE PRESENT AND CONSTRUCTION TRAFFIC OCCURS.
6. ALL TREE PROTECTION MEASURES SHALL REMAIN IN PLACE AT ALL TIMES DURING CONSTRUCTION UNTIL THE CITY'S REPRESENTATIVE AUTHORIZES REMOVAL.

**ROOT PRUNING NOTES**

THE FOLLOWING ARE MINIMUM GUIDELINES FOR THE ROOT PRUNING ADJACENT TO EXISTING TREES TO BE PRESERVED ON OR ADJACENT CITY PROJECT SITES.

**ROOT PRUNING SCOPE.** WHERE PROPOSED CONSTRUCTION IMPROVEMENTS INVOLVE EXCAVATION AND/OR IMPACTS TO THE CRITICAL ROOT ZONE OF PROTECTED TREES, THE CONTRACTOR SHALL PERFORM ROOT PRUNING WORK UNDER THE DIRECT SUPERVISION OF THE CITY'S ARBORIST TO REDUCE THE IMPACTS OF CONSTRUCTION. THE CRITICAL ROOT ZONE IS EQUIVALENT TO THE TREE'S DRIFLINE. PRIOR TO ANY CLEARING, GRUBBING OR EXCAVATION ACTIVITIES, THE AFFECTED ROOTS MUST BE SEVERED BY CLEAN PRUNING CUTS AT THE POINT WHERE GRUBBING OR EXCAVATION IMPACTS THE ROOT SYSTEM. ROOTS CAN BE PRUNED UTILIZING SPECIFIED ROOT PRUNING EQUIPMENT DESIGNED FOR THAT PURPOSE OR BY HAND DIGGING A TRENCH AND PRUNING ROOTS WITH A PRUNING SAW, CHAIN SAW OR OTHER EQUIPMENT DESIGNED FOR TREE PRUNING. ROOT PRUNING BY TRENCHING EQUIPMENT OR EXCAVATION EQUIPMENT IS STRICTLY PROHIBITED. ROOTS LOCATED IN THE CRITICAL ROOT ZONE THAT WILL BE IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE PRUNED TO A MINIMUM DEPTH OF 18 INCHES BELOW EXISTING GRADE OR TO THE DEPTH OF THE PROPOSED IMPACT IF LESS THAN 18 INCHES FROM EXISTING GRADE.

1. ROOT PRUNING SHALL ONLY BE PERFORMED UNDER THE DIRECT SUPERVISION OF THE CITY'S ARBORIST.
2. ANY PROPOSED ROOT PRUNING TRENCHES SHALL BE IDENTIFIED (I.E. STAKED OR PAINTED) ON SITE, INSPECTED AND APPROVED BY THE CITY'S ARBORIST PRIOR TO ACTUAL ROOT PRUNING.
3. ROOT PRUNING SHALL BE PERFORMED AS FAR IN ADVANCE OF OTHER CONSTRUCTION ACTIVITIES AS IS FEASIBLE, BUT AT A MINIMUM SHALL BE PERFORMED PRIOR TO ANY IMPACTS TO THE SOIL. ASSOCIATED TREE PROTECTION MEASURES SHOULD BE IMPLEMENTED UPON COMPLETION OF SAID ROOT PRUNING.
4. IF THERE IS A LIKELIHOOD OF EXCESSIVE WIND AND/OR RAIN EXCEPTIONAL CARE SHALL BE TAKEN ON ANY ROOT PRUNING ACTIVITIES.
5. ROOT PRUNING SHALL BE LIMITED TO A MINIMUM OF TEN INCHES PER ONE INCH OF THE TRUNK DIAMETER FROM THE TREE BASE. ANY EXCEPTION MUST BE APPROVED BY THE CITY'S REPRESENTATIVE PRIOR TO SAID ROOT PRUNING.
6. ROOTS SHALL BE CUT CLEANLY, AS FAR FROM THE TRUNK OF THE TREE AS POSSIBLE. ROOT PRUNING SHALL BE DONE TO A MINIMUM DEPTH OF 18" FROM EXISTING GRADE, OR TO THE DEPTH OF THE DISTURBANCE IF LESS THAN 18".
7. ROOT PRUNING SHALL BE PERFORMED USING A DOSCOOL ROOT CUTTING MACHINE OR EQUIVALENT. ALTERNATE EQUIPMENT OR TECHNIQUES MUST BE APPROVED BY THE CITY'S REPRESENTATIVE, PRIOR TO ANY WORK ADJACENT TO TREES TO BE PRESERVED.
8. ROOT PRUNING SHALL BE COMPLETED, INSPECTED AND ACCEPTED PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION OR OTHER IMPACTS TO THE CRITICAL ROOT ZONES OF TREES TO BE PROTECTED.
9. EXCAVATIONS IN AN AREA WHERE ROOT ARE PRESENT SHALL NOT CAUSE THE TEARING OR RIPPING OF TREE ROOTS. ROOTS MUST FIRST BE CLEANLY SEVERED PRIOR TO CONTINUING WITH THE EXCAVATION, OR TUNNELED AROUND TO PREVENT DAMAGE TO THE ROOT.
10. TREE ROOTS SHALL NOT BE EXPOSED TO DRYING OUT. ROOT ENDS SHALL BE COVERED WITH NATIVE SOIL OR BURLAP AND KEPT MOST UNTIL FINAL BACKFILL OR FINAL GRADES HAS BEEN ESTABLISHED.
11. WHEN DEEMED APPROPRIATE (E.G., DURING PERIODS OF DROUGHT) THE CITY REPRESENTATIVE MAY REQUIRE A TEMPORARY IRRIGATION SYSTEM BE UTILIZED IN THE REMAINING CRITICAL ROOT ZONES OF ROOT PRUNED TREES.

**CITY OF TARPON SPRINGS RIGHT OF WAY CONSTRUCTION NOTES**

1. THE FOLLOWING NOTES SHALL APPLY TO ALL CONSTRUCTION WITHIN THE CITY OF TARPON SPRINGS RIGHT-OF-WAY:

- A. ALL RIGHT-OF-WAY INSTALLATIONS SHALL BE IN ACCORDANCE WITH PRACTICES REFERENCED IN THE STATE OF FLORIDA UTILITIES ACCOMMODATIONS MANUAL.
- B. ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE MINIMUM STANDARDS SET DOWN IN CITY OF TARPON SPRINGS LAND DEVELOPMENT, ZONING AND/OR RELATED ORDINANCES, AND MINIMUM TESTING FREQUENCY REQUIREMENTS.
- C. SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND THE FLORIDA DEPARTMENT OF TRANSPORTATION'S "ROADWAY AND TRAFFIC DESIGN STANDARDS" INDEXES 600 THROUGH 670 (LATEST EDITIONS)
- D. SAFE PEDESTRIAN TRAFFIC IS TO BE MAINTAINED AT ALL TIMES.
- E. ANY SIDEWALK WHICH BECOMES UNDERMINED SHALL BE REMOVED AND REPLACED, SIDEWALKS ARE TO BE RECONSTRUCTED WITHIN THREE (3) DAYS AFTER REMOVAL. WHEN EXISTING SIDEWALK IS REMOVED, IT IS TO BE REMOVED TO THE NEAREST JOINT.
- F. PLACE EXPANSION JOINTS WHERE 4" AND 6" CONCRETE ABUT.
- G. PLACE EXPANSION JOINT BETWEEN BACK-OF-CURB AND CONCRETE DRIVEWAY.
- H. COMPACTION FOR PIPE BACKFILL SHALL COMPLY WITH AASHTO T-180 (98%).
- I. DISTURBED AREA WITHIN THE RIGHT OF WAY SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 AND SODDED OR PAVED AS APPROPRIATE.
- J. THE CONTRACTOR'S AND PERMITTEE'S ATTENTION IS DIRECTED TO THE PROVISIONS OF THE TRENCH SAFETY ACT (FLORIDA STATUTES, SECTION 553.60 ET SEQ.) AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS (29 CFR SECTION 1926.650, SUBPART 8) WHICH SHALL APPLY TO CONSTRUCTION, OPERATION AND MAINTENANCE PURSUANT TO THIS PERMIT.

- K. OPEN-CUT STREETS HAVING CURB SHALL HAVE MINIMUM 4' SECTIONS OF CURB REMOVED ON EACH SIDE; THE CURB SHALL BE SAW CUT, REMOVED, AFTER PIPE LAID, THE AREA BENEATH THE CURB SHALL BE TREATED AS A CURB PAD WITH APPROVED STABILIZED MATERIAL USED AS BACKFILL AND COMPACTED AND TESTED FOR DENSITY AND NEW CURB CONSTRUCTED.
- L. COORDINATE THE CUTTING OF DRIVEWAYS WITH OWNER PRIOR TO CUT. ALL DRIVEWAYS SHALL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY.
- M. CONCRETE DRIVEWAYS PERMITTED TO BE CUT ARE TO BE RESTORED WITH 5" OF 3000 PSI CONCRETE WITH 6" X 6" 10GA. WWF. PLACE 1/2" EXPANSION JOINT BETWEEN BACK OF CURB AND NEW DRIVE. ANY PORTION OF DRIVEWAY AT OR NEAR CUT THAT BECOMES UNDERMINED SHALL BE REMOVED PRIOR TO CONCRETE BEING PLACED. EXISTING CRACKS IN DRIVEWAYS ARE TO BE DOCUMENTED AS PRE-EXISTING OR THAT SECTION REPLACED AT CITY OF TARPON SPRINGS OPERATIONS DEPARTMENT'S OPTION. AREA BENEATH PATCH TO BE MECHANICALLY TAMPED PRIOR TO PLACING CONCRETE. MINIMUM REPAIR WIDTH TO BE 5' WITH NO SECTION LEFT SMALLER THAN 5'.
- N. ASPHALT DRIVES PERMITTED TO BE CUT ARE TO BE RESTORED UTILIZING THE SAME MATERIAL AS EXISTING BASE WITH MINIMUM 6" THICKNESS. ASPHALT TO BE PC-3 OR ALTERNATE APPROVED BY CITY OF TARPON SPRINGS OPERATIONS DEPARTMENT PRIOR TO USE. ASPHALT IS TO BE COMPACTED TO ACHIEVE DENSITY REQUIREMENTS FOR PC-3. RECEIPTS AND DELIVERY TICKETS SHALL REFLECT SUPPLIER AND HIS CERTIFICATION AS TO TYPE OF ASPHALT SUPPLIED.
- O. RESTORATION OF CURB, STREET, DRIVEWAYS AND PLACEMENT OF SOD SHALL BE COMPLETED PRIOR TO EXCAVATION STARTING IN ANOTHER AREA BY SAME CONTRACTOR.
- P. TYPE OF SOD USED TO RESTORE OWNER-MAINTAINED AREA IN RIGHT OF WAY SHALL BE COORDINATED WITH OWNER.
- Q. NO STOCKPILING OF MATERIAL IN ROADWAY OR ON SIDEWALK; ALL DIRT AND DEBRIS SHALL BE REMOVED FROM JOB SITE DAILY. ROADS AND SIDEWALK TO BE SWEEPED DAILY AS PART OF DAILY CLEAN-UP.
- R. AT LEAST ONE LANE OF TRAFFIC SHALL BE OPEN AT ALL TIMES. WHENEVER TRAFFIC IS REDUCED TO ONE LANE, "FLAGMAN" AND "FLAGMAN AHEAD" SIGNS SHALL BE UTILIZED. APPROPRIATE BARRICADES AND "CONSTRUCTION AHEAD" SIGNS SHALL BE UTILIZED PER FDOT MANUAL TRAFFIC CONTROL THROUGH WORK ZONE.
- S. NO STREET SHALL BE CLOSED WITHOUT THE WRITTEN PERMISSION OF THE CITY OF TARPON SPRINGS TRAFFIC DIVISION. AT LEAST 48 HOUR ADVANCE COORDINATION IS REQUIRED.
- T. ANY PORTION OF THE ROADWAY THAT SUSTAINS EXCESSIVE CONSTRUCTION RELATED DAMAGE, IN THE OPINION OF CITY OF TARPON SPRINGS OPERATIONS DEPARTMENT, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN A MANNER SPECIFIED BY CITY OF TARPON SPRINGS OPERATIONS DEPARTMENT.
- U. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION AGAINST OBJECTIONABLE NOISE LEVELS CAUSED BY THE OPERATION OF CONSTRUCTION EQUIPMENT AND SHALL FOLLOW THE REQUIREMENTS OF THE LATEST CITY OF TARPON SPRINGS NOISE ORDINANCE.

**EROSION AND SEDIMENTATION CONTROL NOTES**

1. ALL PRACTICABLE AND NECESSARY EFFORT SHALL BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT MATERIAL TO INLETS, SURFACE DRAINS, MARSH AND SUMP AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION EFFORTS THAT MAY BE REQUIRED.
2. PROVIDE ALL DISTURBED AREAS WITHIN THE LIMITS OF THE WORK WITH TEMPORARY SOIL EROSION CONTROL AND SEDIMENT CONTROL, UTILIZING EARTH DAMS & PONDS, GRADE TO DRAIN SWALES, SETTLING BASINS, SILT FENCES, STONE FILTERS, HAY BALE FILTERS, ETC., TREATING ALL SOIL SURFACES WITH SEEDED TOPSOIL AND/OR MULCH AFTER GRADING.
3. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND AIR AND WATER POLLUTION WILL BE MINIMIZED. STATE AND LOCAL LAWS SHALL BE COMPLIED WITH AT ALL TIMES.
5. MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ONE TIME AND INSTALL SOIL EROSION CONTROL FENCES AS SHOWN AND IN SUCH A MANNER AS TO CAPTURE AND FILTER SURFACE WATER DURING CONSTRUCTION.
6. PERMANENT STABILIZATION SHALL BE BY SODDING ALL EXPOSED AREAS WITHIN THREE DAYS AFTER FINAL GRADING. MULCH SHALL BE USED FOR PROTECTION UNTIL 75% GROWTH IS ESTABLISHED. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL WHICH WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY AS TO PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER.
7. ALL NEW EROSION AND SILT CONTROL METHODS AND LOCATIONS INDICATED ON THIS DRAWING ARE FOR START-UP AND GENERAL REFERENCE AND SHALL BE ADJUSTED, AS REQUIRED, TO SUIT THE PROCESS OF THE CONSTRUCTION.
8. HAYBALES SHALL BE PLACED ON THE UPLAND SIDE AND ADJACENT TO ALL SILT FENCE WHICH IS ADJACENT TO WETLAND AREAS TO PROVIDE ADDED SILTATION PROTECTION AT THE COMMENCEMENT OF CONSTRUCTION. THE HAYBALES SHALL BE REMOVED AT SUCH TIME AS THEIR PRESENCE IMPEDES CONSTRUCTION.
9. 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 CONSTRUCTION PHASE.
10. WHERE PUMPS ARE TO BE USED TO REMOVE TURBID WATERS FROM THE CONSTRUCTION AREA, THE WATER SHALL BE TREATED TO REDUCE TURBIDITY TO STATE WATER QUALITY STANDARDS PRIOR TO DISCHARGE.
11. THE CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF PERMANENT AND TEMPORARY EROSION CONTROL FEATURES UNTIL THE PROJECT IS COMPLETE AND ALL BARED SOIL STABILIZED. SILTATION ACCUMULATIONS SHALL BE IMMEDIATELY REMOVED AND PLACED IN UPLAND AREAS.
12. WATER REMAINING IN THE EXCAVATIONS AFTER CONSTRUCTION MUST BE KEPT CONFINED WITHIN THE EXCAVATIONS PRIOR TO DISCHARGE (IF APPLICABLE), UNTIL THE TURBIDITY LEVEL OF THE WATER MEETS STATE WATER QUALITY STANDARDS.
13. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
14. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER THE EXISTING SURFACE WATER AREAS THAT MAY BE ONSITE EXCEPT AS DIRECTED BY THESE PLANS AND ALLOWED BY THE PROJECT PERMITS. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR MARSH IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL PERMITS FOR THE SITE. MAINTAIN A MINIMUM 25 FEET SETBACK FROM WETLAND/SURFACE WATERS (JD LINE) AT ALL TIMES. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINE RESULTING FROM HIS VIOLATION OF PERMIT CONDITIONS.
15. NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMITTING.
  - A. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DEVELOPMENT OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH ALL FEDERAL REQUIREMENTS. THE SWPPP SHALL BE PREPARED PRIOR TO CONTRACTOR'S SUBMITTAL OF A NOTICE OF INTENT (NOI) TO THE EPA.
  - B. THE NOI SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REFERENCE THE CONTRACTOR AS THE PARTY RESPONSIBLE FOR IMPLEMENTING THE SWPPP.
  - C. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO EPA A NOTICE OF TERMINATION (NOT) WHEN ALL REQUIREMENTS FOR WORK SUBMITTAL HAVE BEEN MET.
16. DEWATERING SHALL BE ACCOMPLISHED UTILIZING THE BEST MANAGEMENT PRACTICES TO MINIMIZE IMPACTS TO ADJACENT WETLANDS, OR A RECEIVING WATER BODY. DISCHARGE FROM DEWATERING FOR EXCAVATION OF THE UTILITIES BEING INSTALLED SHALL BE TREATED (FILTERED) BEFORE IT ENTERS OTHER WATER BODIES, AND SHALL MEET STATE WATER QUALITY STANDARDS FOR TURBIDITY.
17. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH THE FDP'S "GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY", 62-621.300 FAC, INCLUDING ALL REQUIRED SAMPLING.



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SEABREEZE DRIVE SANITARY SEWER PROJECT

CITY OF TARPON SPRINGS  
PINELLAS, FLORIDA

NOTES

JOB NO.: 0517-00102-2018-1740  
DATE: 12/12/2018  
SCALE: AS SHOWN

**G1.02**  
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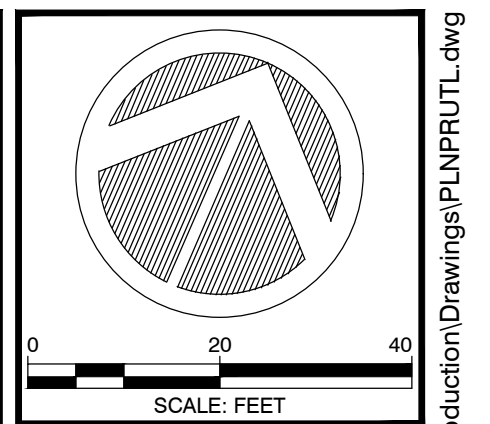
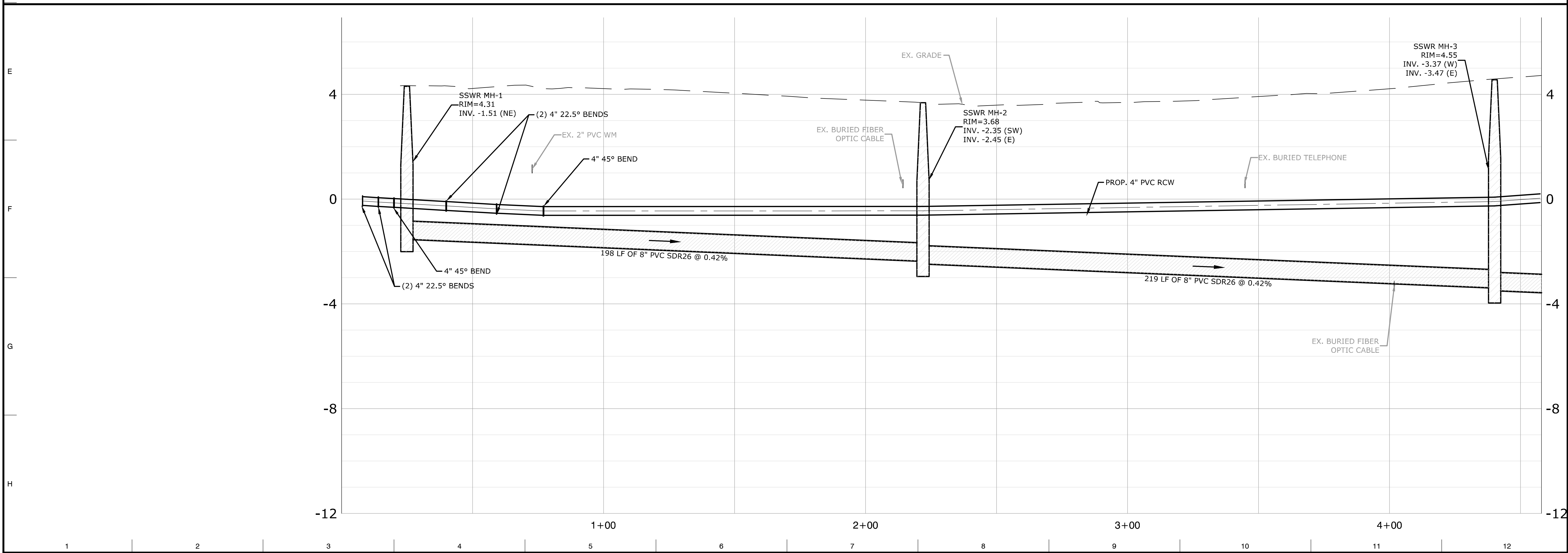
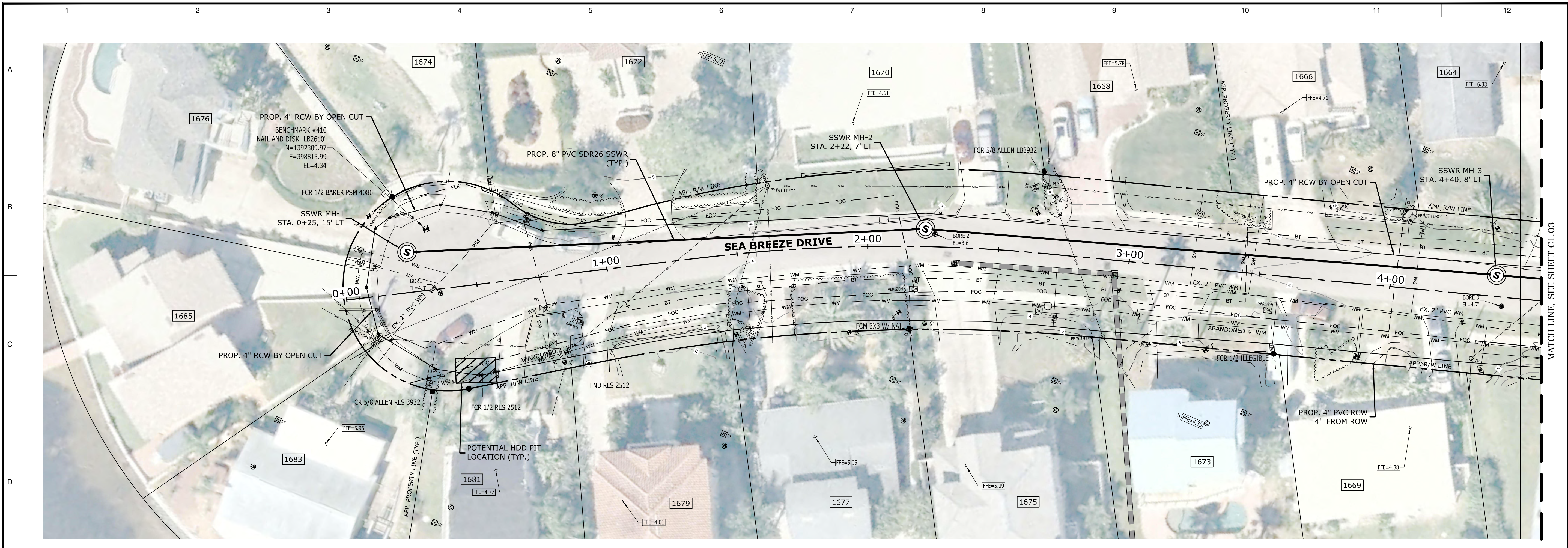












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**SEABREEZE DRIVE PLAN AND PROFILE**  
 STA. 0+00 THRU STA. 4+58

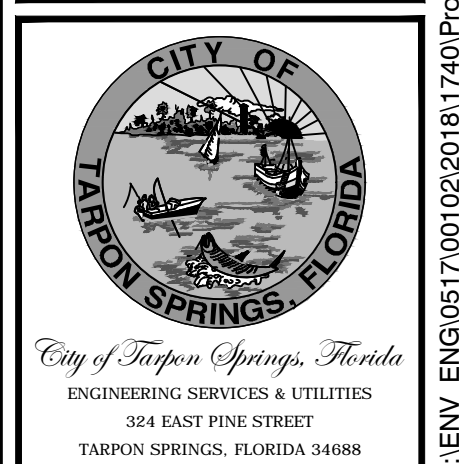
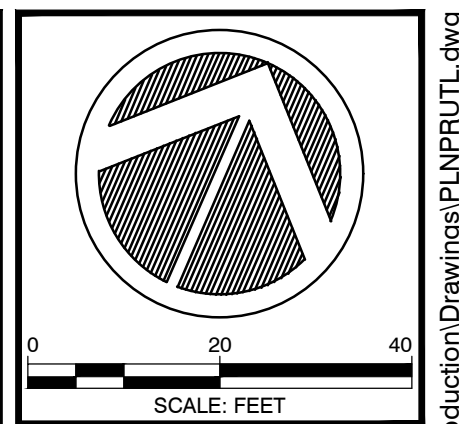
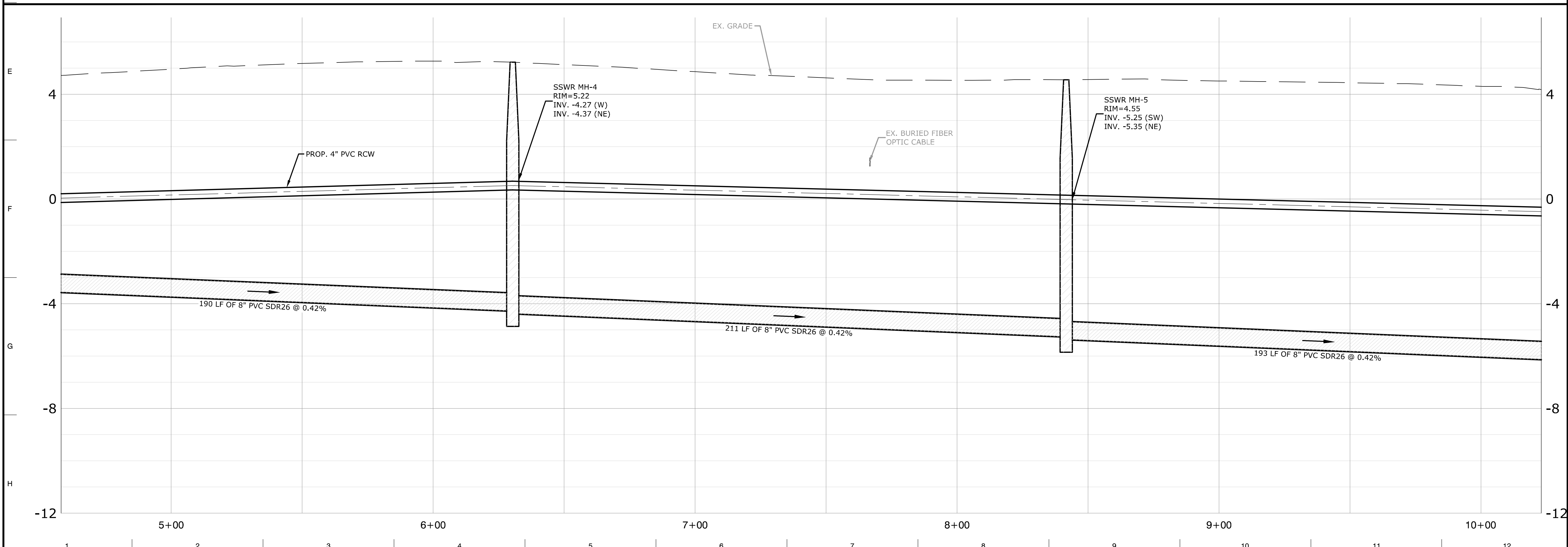
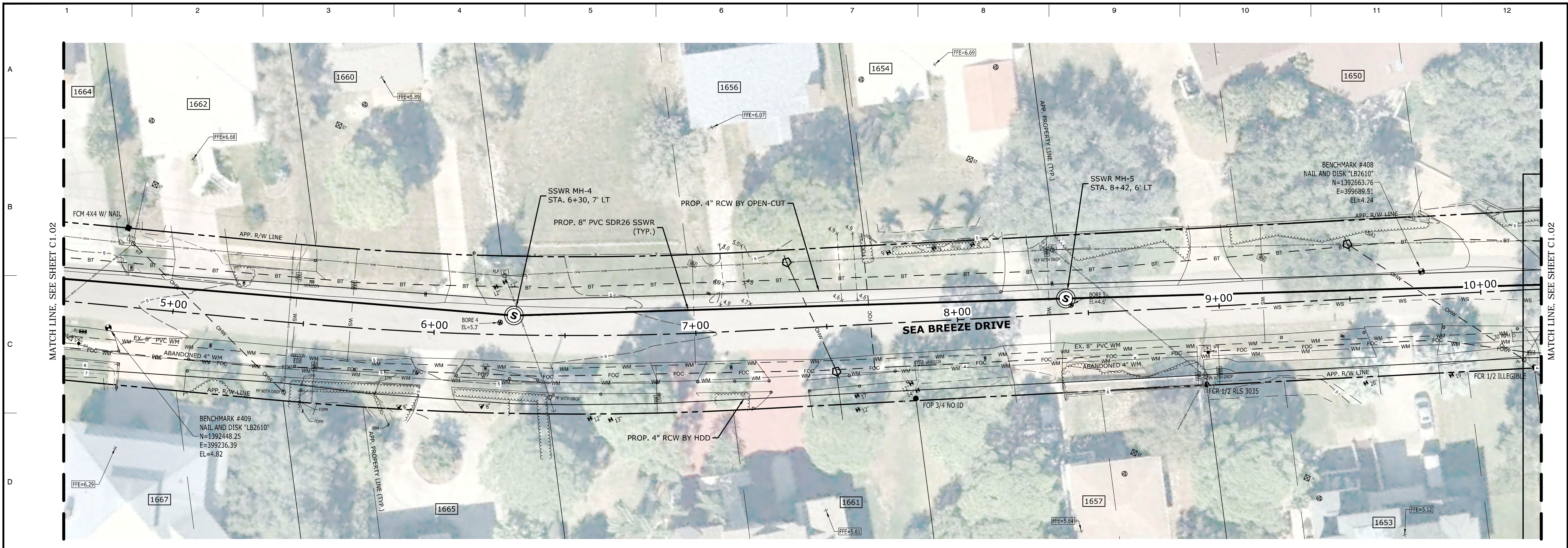
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 STA. 4+58 THRU STA. 10+23

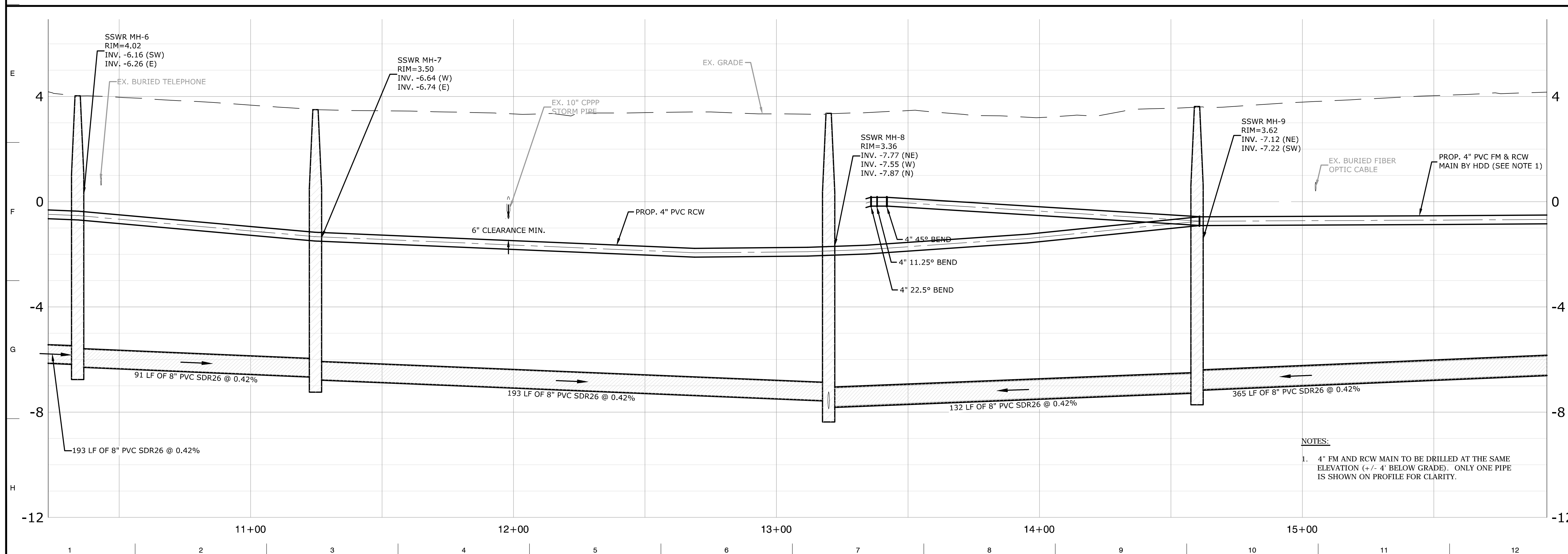
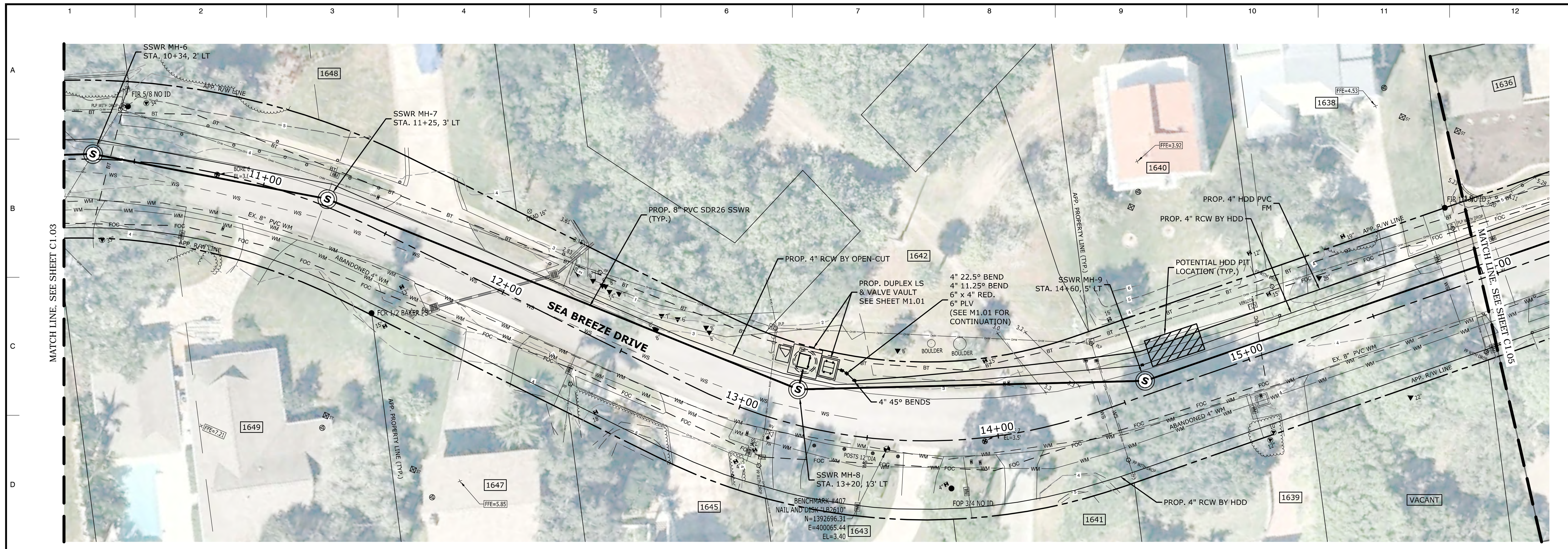
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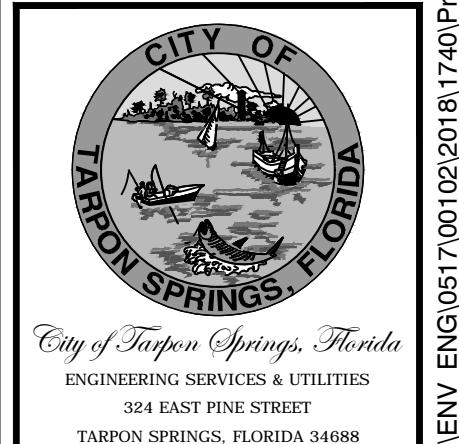
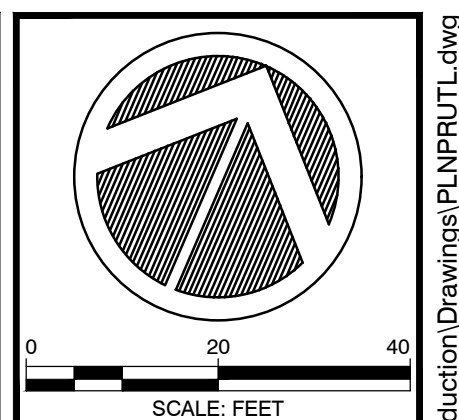
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**NOTES:**  
 1. 4" FM AND RCW MAIN TO BE DRILLED AT THE SAME ELEVATION (+/- 4' BELOW GRADE). ONLY ONE PIPE IS SHOWN ON PROFILE FOR CLARITY.



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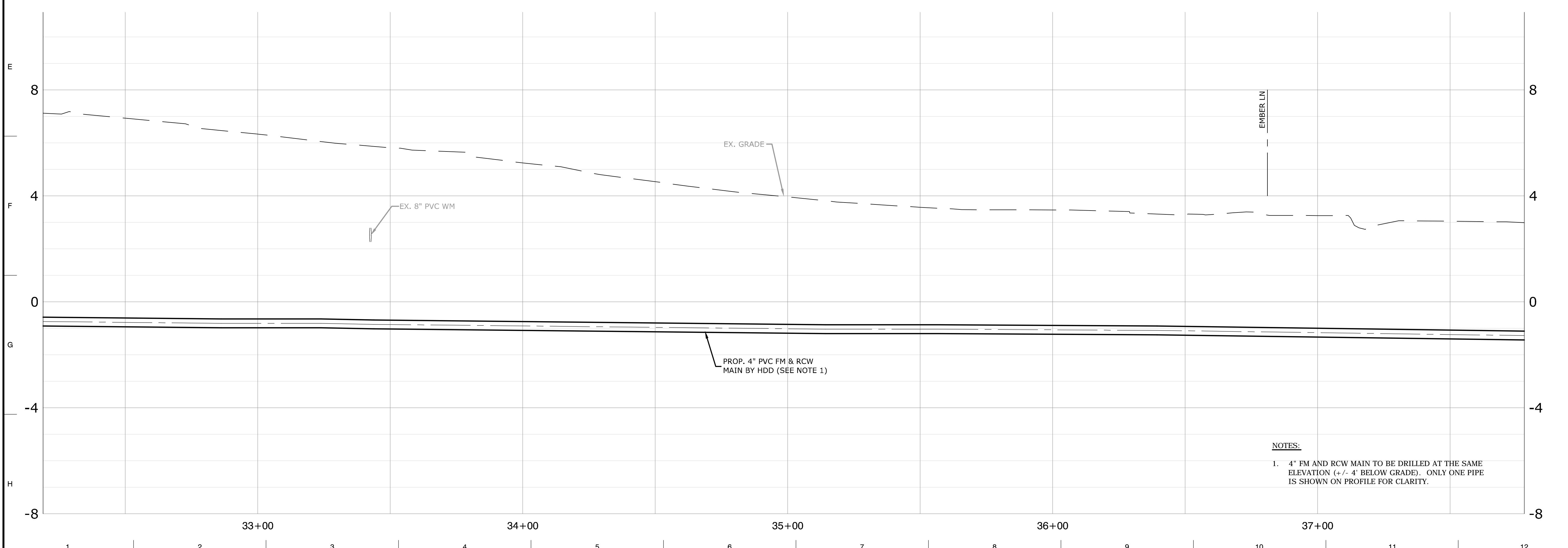
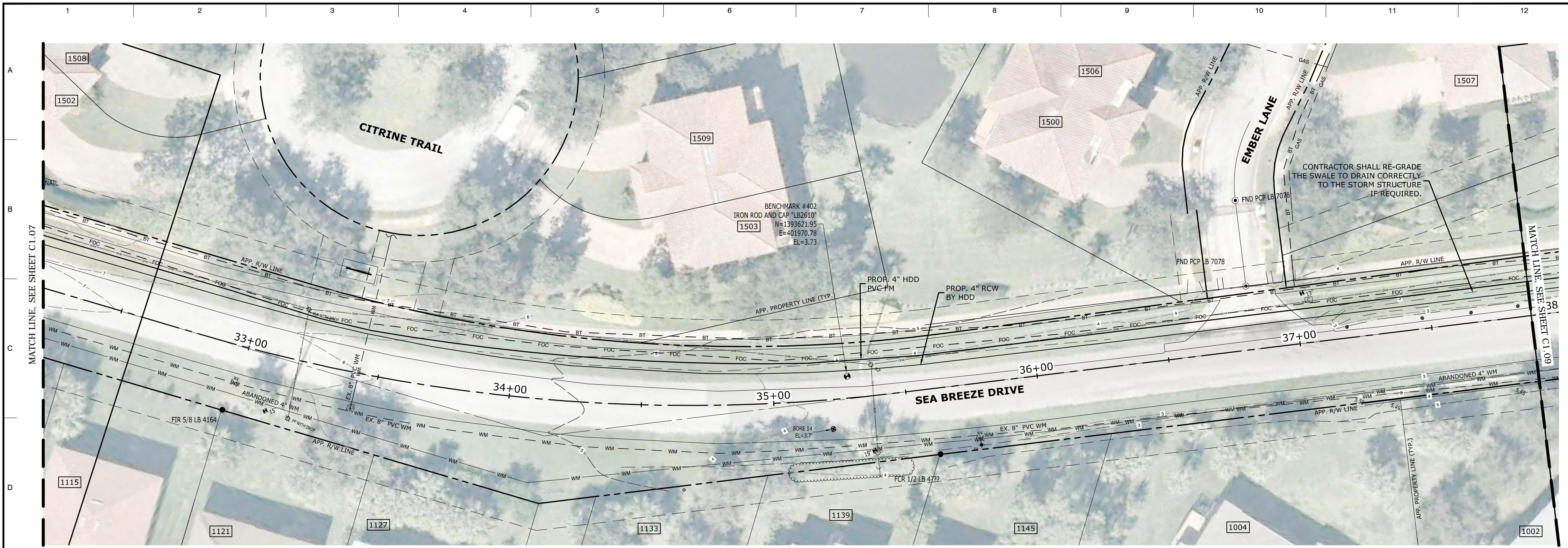




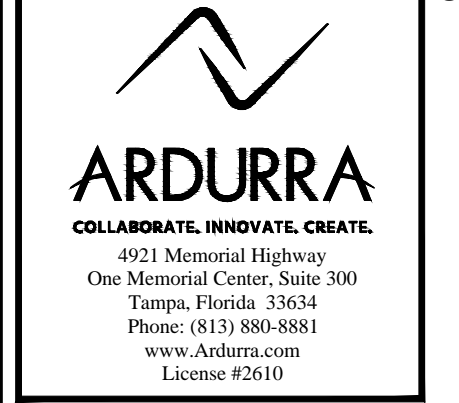
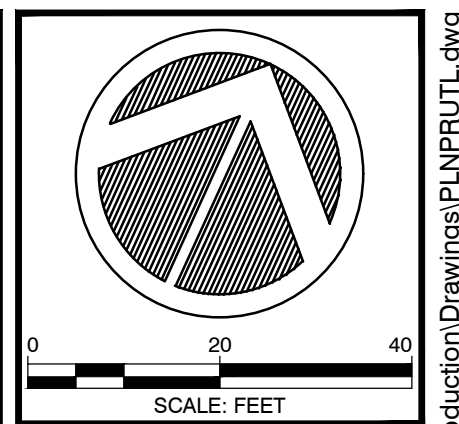






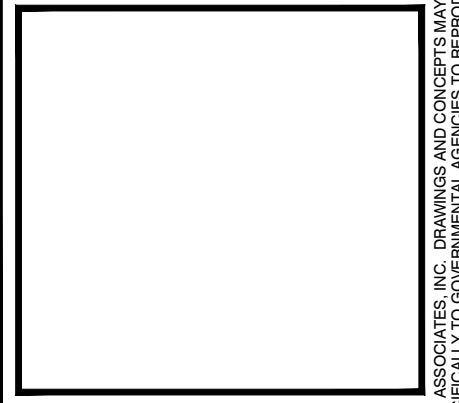


- NOTES:**
- 4" FM AND RCW MAIN TO BE DRILLED AT THE SAME ELEVATION (+/- .4' BELOW GRADE). ONLY ONE PIPE IS SHOWN ON PROFILE FOR CLARITY.



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STA. 32+19 THRU STA. 37+78



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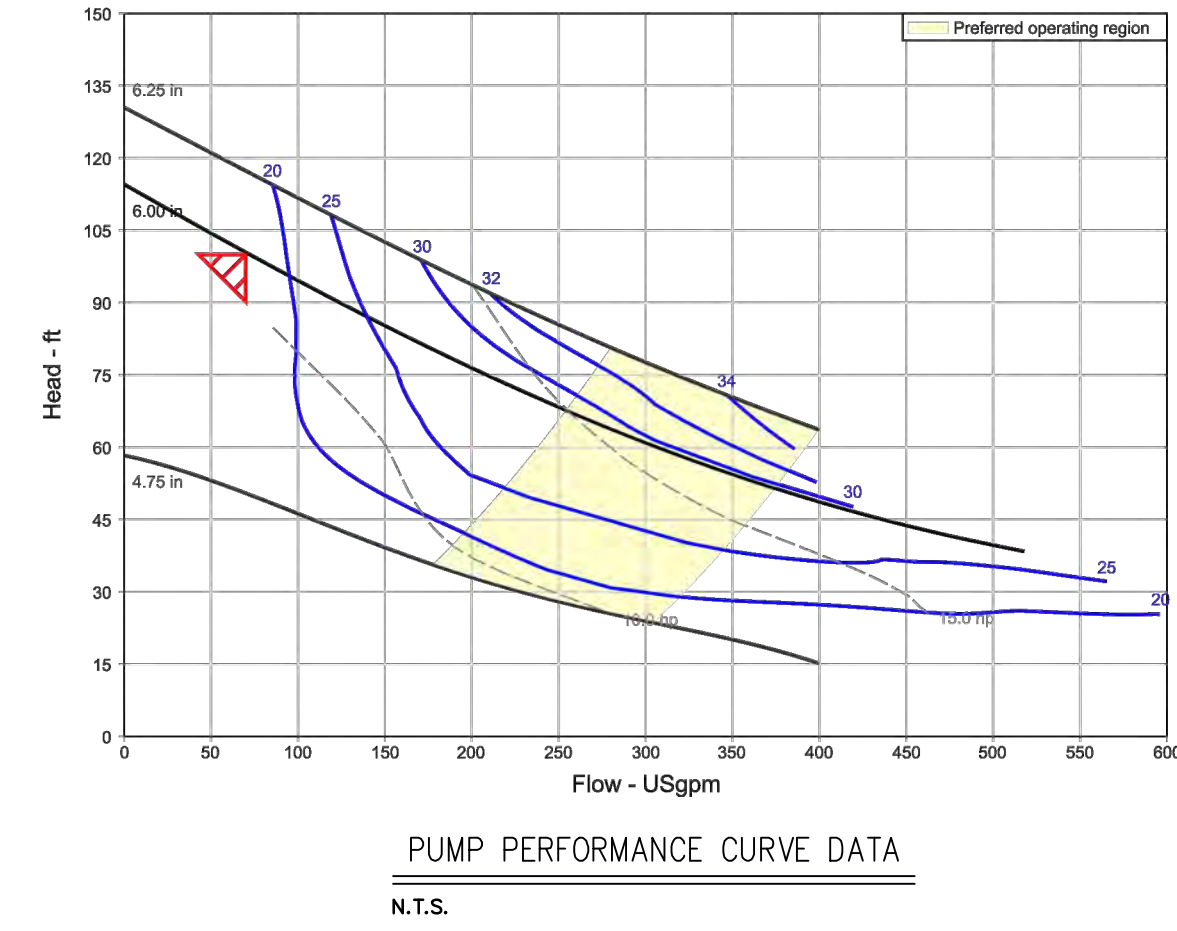
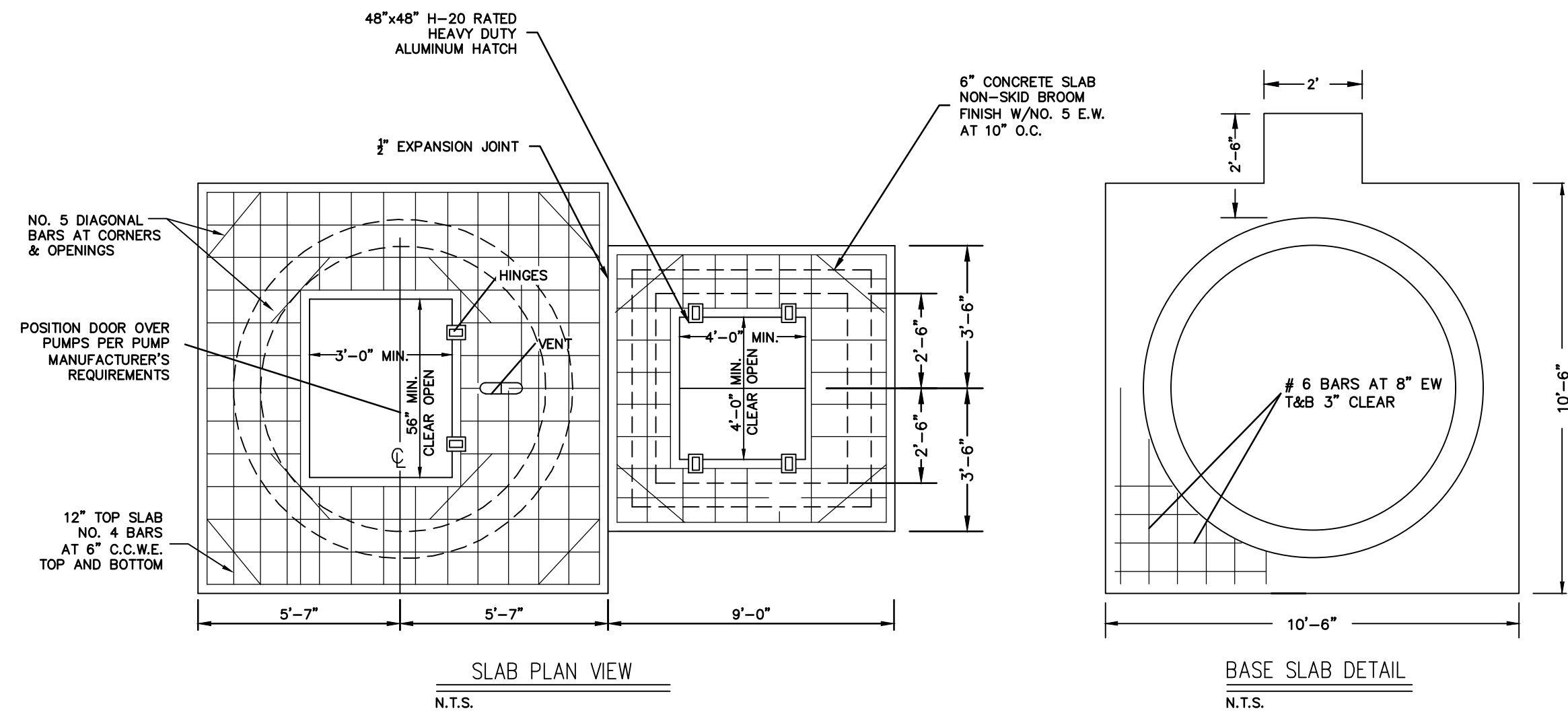
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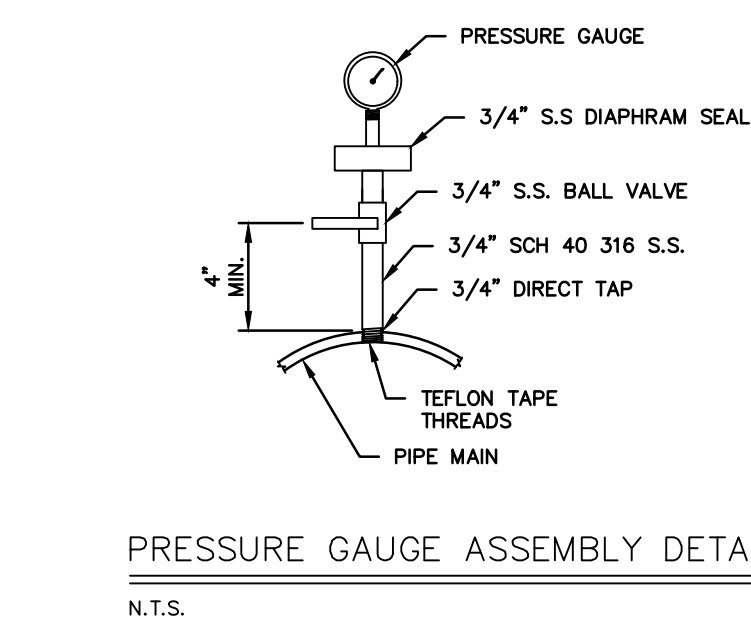
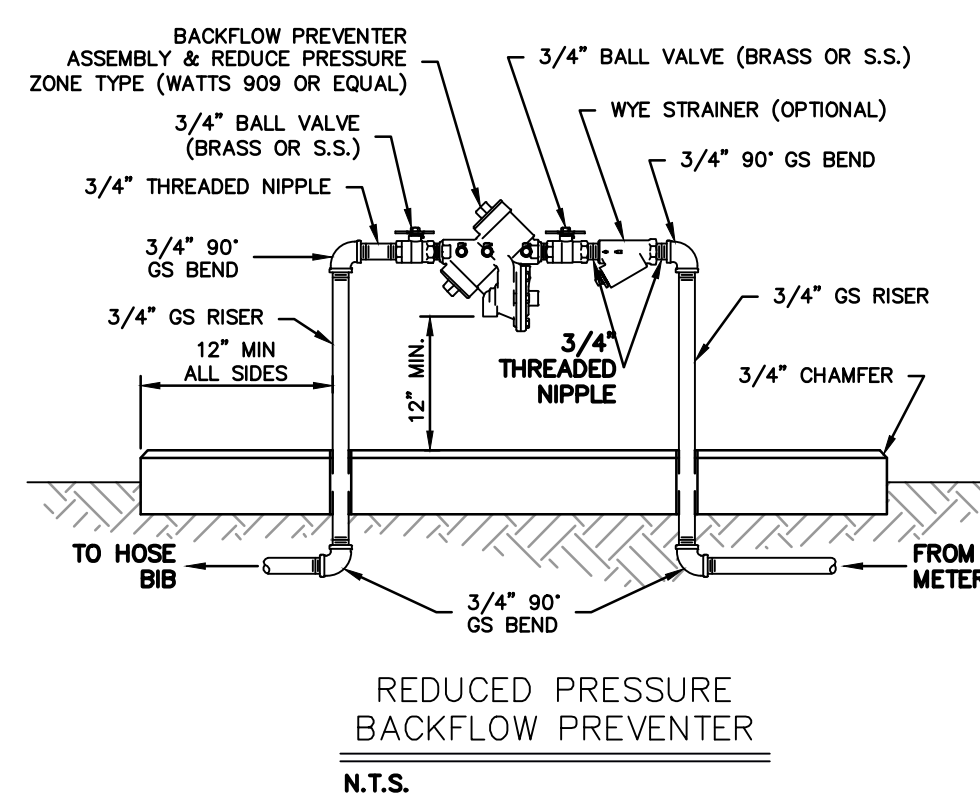
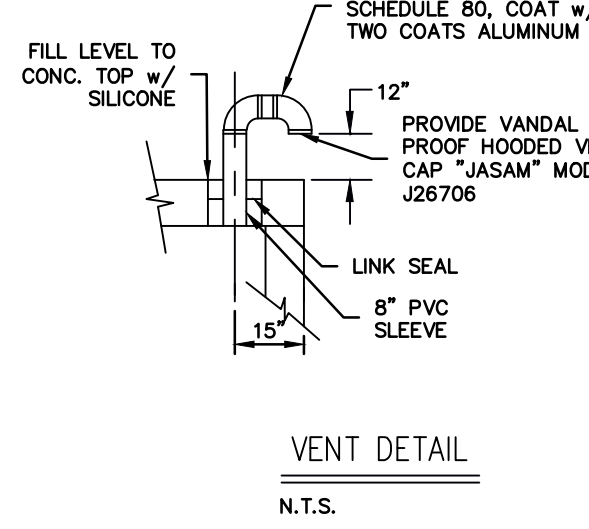
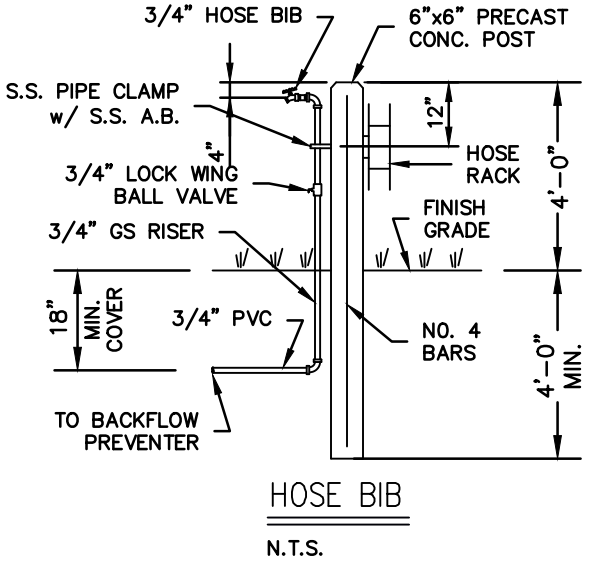
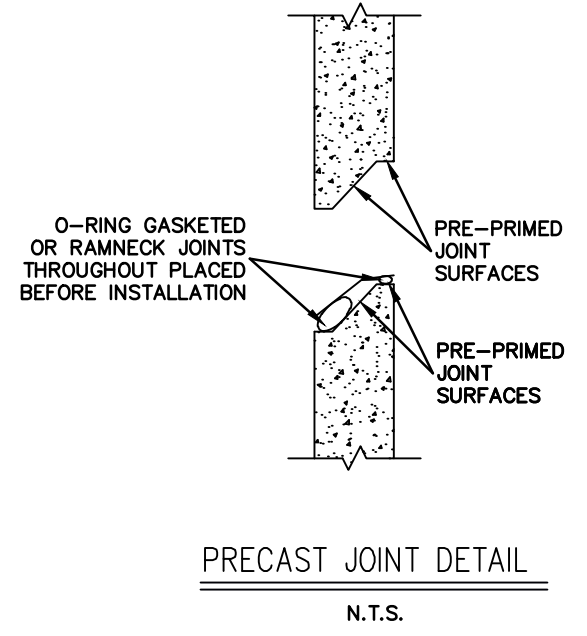
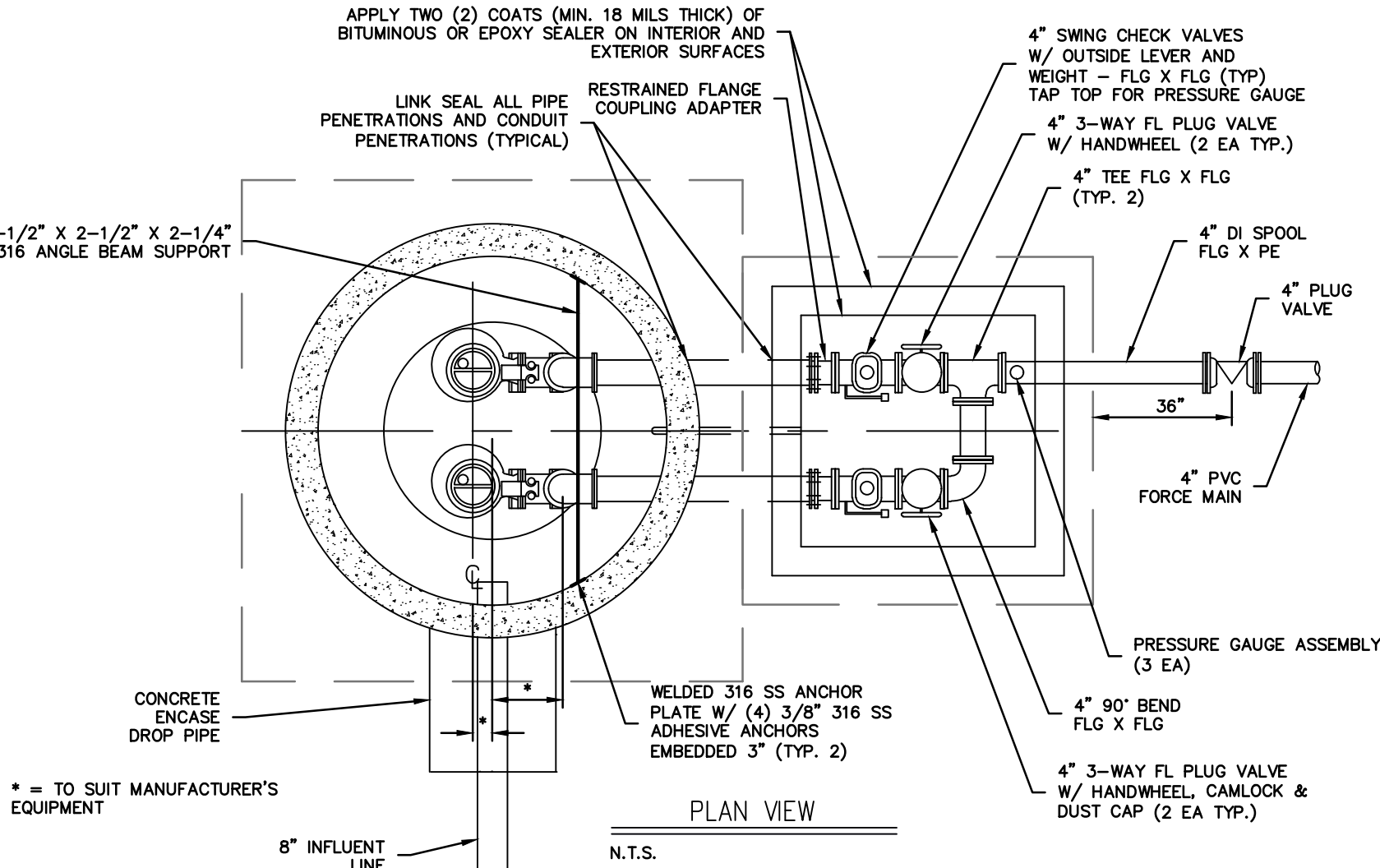


**NOTES**

1. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW 240V/3PA TRANSFORMER, APPROPRIATELY SIZED PER PUMP MANUFACTURER'S POWER REQUIREMENTS, TO BE INSTALLED BY ELECTRIC COMPANY. LOCATION OF TRANSFORMER TO BE DETERMINED INFIELD. CONTRACTOR SHALL PROVIDE APPROPRIATELY-SIZED LATERAL, CONDUIT AND FUSED DISCONNECT TO NEW PUMP STATION.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CLEARANCES, ORIENTATIONS, AND LOCATIONS OF ALL EQUIPMENT WITH THE RESPECTIVE MANUFACTURERS.
4. EXCAVATIONS SHALL REMAIN FULLY DEWATERED UNTIL BACKFILLING IS COMPLETED.
5. CONTRACTOR IS RESPONSIBLE FOR ALL BALLAST REQUIRED DURING CONSTRUCTION. CONTRACTOR TO PROVIDE CALCULATIONS TO SHOW THAT BUOYANCY IS OVERCOME FOR THE SYSTEM SHOWN ON SHOP DRAWINGS SUBMITTED FOR APPROVAL.
6. SEE SITE PLAN FOR ORIENTATION OF PUMP STATION COMPONENTS.
7. A 3/4" WATER SERVICE WITH INTEGRAL REDUCED PRESSURE ZONE BACKFLOW PREVENTOR SHALL BE INSTALLED AT THE PUMP STATION CONTROL PANEL.
8. THE CONTRACTOR SHALL INSTALL THE CONTROL PANEL, COVERS, PUMPS, GUIDE RAIL AND ASSOCIATED EQUIPMENT TO PUMP MANUFACTURERS RECOMMENDATIONS AND APPROVED SHOP DRAWINGS.
9. ALL HARDWARE (INCLUDING FLANGE BOLTS & NUTS) SHALL BE 316 STAINLESS STEEL UNLESS OTHERWISE SHOWN.
10. COAT THE EMBEDDED AREAS OF ALL ALUMINUM PRODUCTS IN CONTACT WITH CONCRETE, WITH 1 COAT OF CARBOLINE BITUMASTIC 300 M.
11. INDIVIDUAL WALL PENETRATION SLEEVES SHALL BE PROVIDED FOR EACH PUMP CABLE.
12. IF LIFT CABLES ARE USED IN LIEU OF CHAINS, LIFTING RINGS MUST BE PROVIDED EVERY 4 FT. LIFT CABLES AND RINGS SHALL BE 316 STAINLESS STEEL.
13. ALL LIFT STATION PIPING SHALL BE D.I.P. PRESSURE CLASS 350 FLANGED UNLESS OTHERWISE INDICATED.
14. ALL UNDERGROUND FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT DUCTILE IRON AND SHALL BE PROVIDED WITH PROTECTO 401 INTERIOR LINING.
15. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE PROVIDED WITH CERAMIC EPOXY INTERIOR LINING (PROTECTO 401).
16. BURIED DISCHARGE FORCE MAIN SHALL BE C900 PVC, DR 18, COLORED GREEN. PROVIDE MINIMUM 36" COVER IN ALL LOCATIONS. INSTALL GREEN METALLIC IDENTIFICATION TAPE MARKED "FORCE MAIN BURIED BELOW" AT 12-18 INCHES BELOW GRADE ABOVE THE PIPE.
17. ELECTRICAL AND CONTROLS: THE FOLLOWING SHALL BE MINIMUM ELECTRICAL/CONTROLS REQUIREMENTS. ADDITIONAL ITEMS SHALL BE AS SHOWN ON PUMP STATION ELECTRICAL PLAN IF ANY. ALL PANELS SHALL BE SS, NEMA 4/4X. A 110-VOLT GFI POWER RECEPTACLE SHALL BE PROVIDED INSIDE THE PANEL DEAD FRONT, OR IN A SEPARATE OUT-DOOR RATED BOX WIRED TO THE PANEL. A SS NEMA 4/4X JUNCTION BOX SHALL BE PROVIDED BETWEEN THE WETWELL AND CONTROL PANEL PER THE ELECTRICAL SHEET. SEAL-OFFS SHALL BE PROVIDED AT ALL PENETRATIONS INTO THE WETWELL AND AT THE JUNCTION BOX UPSTREAM OF THE WET WELL. ALL PUMP MOTOR POWER CORDS SHALL BE HEAVY-DUTY FOR WASTEWATER APPLICATIONS, WITH CORROSION-RESISTANT TERMINAL FITTINGS. ALL PANELS SHALL BE MOUNTED ONTO TWO 6 INCH CONCRETE POSTS WITH SS UNI-STRUTS. THE PUMP STATION CONTROL SHALL BE PROVIDED WITH THE FOLLOWING FEATURES/OPTIONS, AT A MINIMUM.

- FDEP REQUIREMENTS, AT MINIMUM, INCLUDING:**
- PUMP FAIL INDICATOR LIGHTS AND MOMENTARY TEST SWITCHES. FAIL CONDITION SHALL INCLUDE PUMP SEAL FAIL/LEAK.
  - EXTERNALLY MOUNTED LIGHTNING ARRESTOR.
  - RECEPTACLE FOR PORTABLE GENERATOR, PROTECTED FROM DAMAGE IN THE EVENT OF RESTORATION OF POWER.
  - ALARM LIGHT AND HORN, WITH EMERGENCY BATTERY BACKUP UPON LOSS OF MAIN POWER.
  - ELAPSED TIME METER FOR EACH PUMP.
  - ALTERNATION OF LEAD/LAG PUMP AFTER EACH OFF CYCLE.
  - HOA SWITCH, EACH PUMP, PUMP RUN/FAL/STDBY/LIGHTS
  - ALARM BATTERY BACKUP (1 HR)

18. POST AN UNOBSERVED SIGN MADE OF DURABLE WEATHER RESISTANT MATERIAL MIN. 2" BLACK LETTERING ON REFLECTIVE BACKGROUND AT A LOCATION VISIBLE TO THE PUBLIC WITH A TELEPHONE NUMBER FOR A POINT OF CONTACT IN CASE OF EMERGENCY.
19. ALL DISCHARGE PIPING SHALL BE SUBJECT TO HYDROSTATIC PRESSURE TESTING TO 100 PSI FOR 2 HOURS. LEAKAGE EXCEEDING 0 GAL SHALL FAIL.
20. ACCEPTANCE OF THE FORCE MAIN SHALL NOT BE PRIOR TO SUCCESSFUL COMPLETION, IN THE PRESENCE OF THE ENGINEER'S REPRESENTATIVE, OF A 2-HR PRESSURE TEST TO 100 PSI IN ACCORDANCE WITH AWWA C605
21. ALL VALVES AND PIPING SHALL BE PAINTED WITH TWO COATS OF CARBOLINE BITUMASTIC 300 M OR EQUAL AFTER INSTALLATION.
22. THE WET WELL AND VALVE VAULT INTERIORS SHALL BE COATED WITH 16 MILS MINIMUM OF CARBOLINE BITUMASTIC 300 M.
23. PUMP MOTORS SHALL NOT BE OVERLOADED ON ANY POINT OF THE OPERATING CURVE.
24. CONTRACTOR SHALL PERFORM A "PRELIMINARY PUMP STATION START-UP", PRIOR TO SCHEDULING A FINAL PUMP STATION START-UP WITH THE ENGINEER OF RECORD, CLIENT AND GOVERNING AGENCIES. ENGINEER'S TIME AT ADDITIONAL PUMP STATION START-UPS REQUIRED DUE TO THE CONTRACTOR'S FAILURE TO COMPLETE A SUCCESSFUL PRELIMINARY START-UP WILL BE PAID FOR BY THE CONTRACTOR AT THE ENGINEER'S STANDARD BILLING RATE.



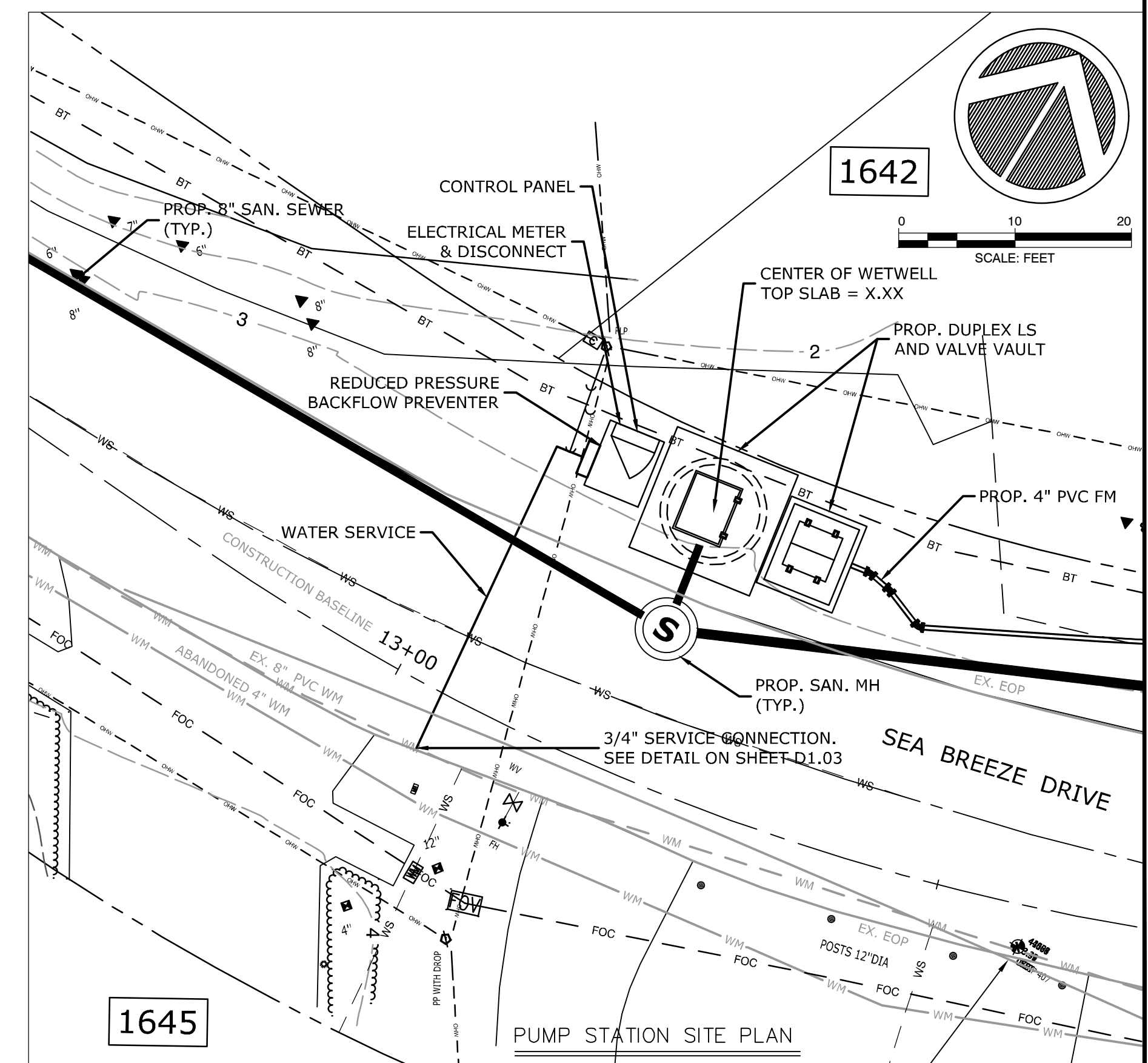
**LIFT STATION & PIPING ELEVATION TYPICAL**

TOP SLAB ELEV. =	3.00
INVERT ELEV. =	-7.94
HIGH LEVEL ALARM ELEV. =	-8.44
LAG PUMP "ON" ELEV. =	-8.94
LEAD PUMP "ON" ELEV. =	-9.44
BOTH PUMPS "OFF" ELEV. =	-9.79
BOTTOM ELEV. =	-11.79

**PUMP DESIGN REQUIREMENTS**

TYPE OF PUMP	SUBMERSIBLE NON-CLOG
MANUFACTURER	* PENTAIR MYERS
MODEL	4RH/4RH-X-M2
DESIGN FLOW RATE	70 GPM
DESIGN TOTAL DYNAMIC HEAD	100 FEET
RUNOUT FLOW RATE	515 GPM
RUNOUT TOTAL DYNAMIC HEAD	40 FEET
SHUT-OFF HEAD	115 FEET
DISCHARGE DIAMETER	4 INCHES
HORSEPOWER	11 MAXIMUM
PUMP SPEED	3500 RPM, MAX.
MINIMUM SOLIDS SIZE	3.0 INCHES
IMPELLER SIZE	6.0 INCHES

\* OR ENGINEER APPROVED EQUAL



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 CITY OF TARPON SPRINGS  
 PINELLAS, FLORIDA

**PUMP STATION MECHANICAL PLAN**

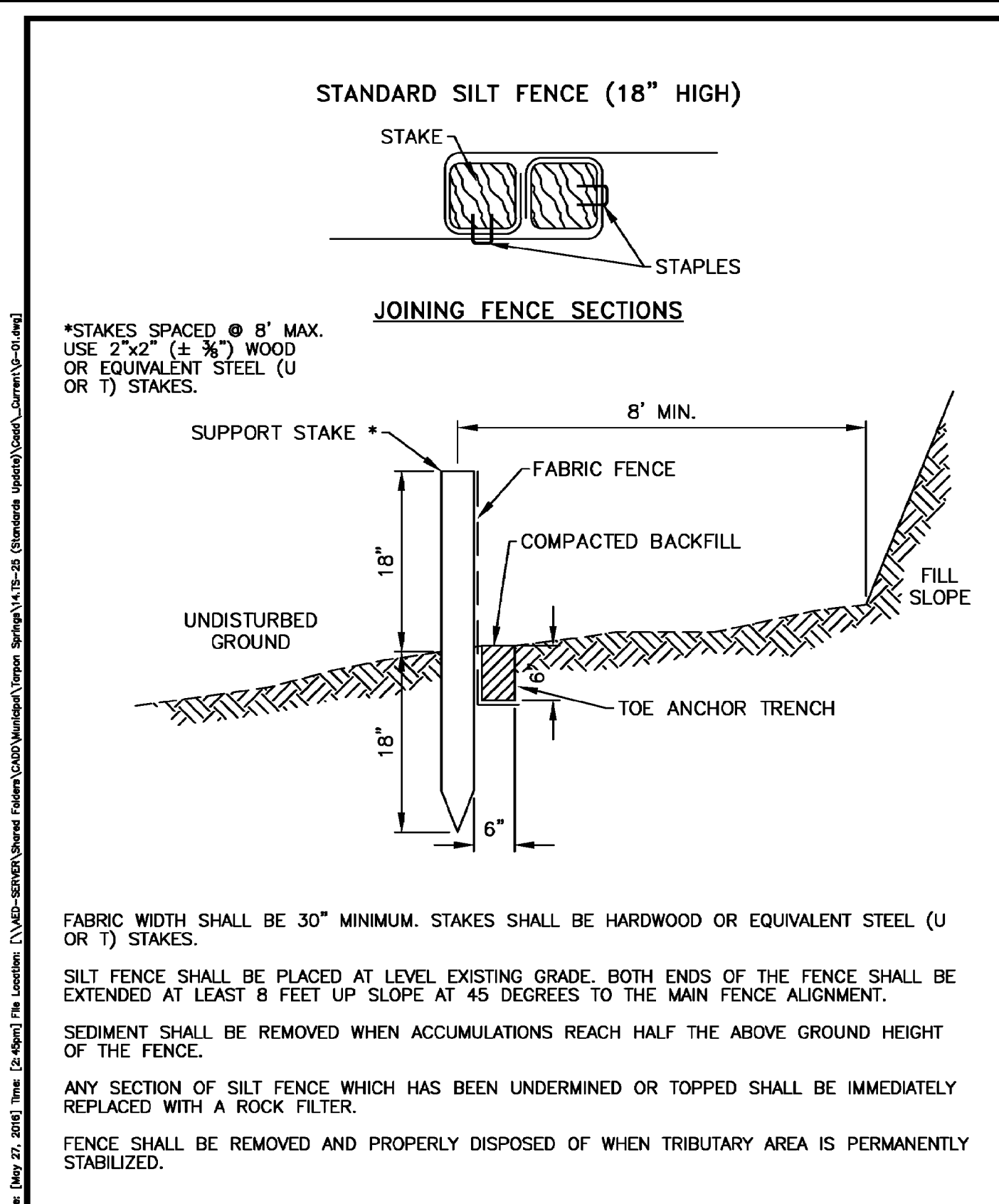
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 DATE: 02/10/2017  
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**STANDARD SILT FENCE (18" HIGH)**

STAKE  
STAPLES

**JOINING FENCE SECTIONS**

\*STAKES SPACED @ 8' MAX. USE 2"x2" (± 1/8") WOOD OR EQUIVALENT STEEL (U OR T) STAKES.

8' MIN.

SUPPORT STAKE  
FABRIC FENCE  
COMPACTED BACKFILL  
UNDISTURBED GROUND  
TOE ANCHOR TRENCH  
FILL SLOPE

FABRIC WIDTH SHALL BE 30" MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT STEEL (U OR T) STAKES.

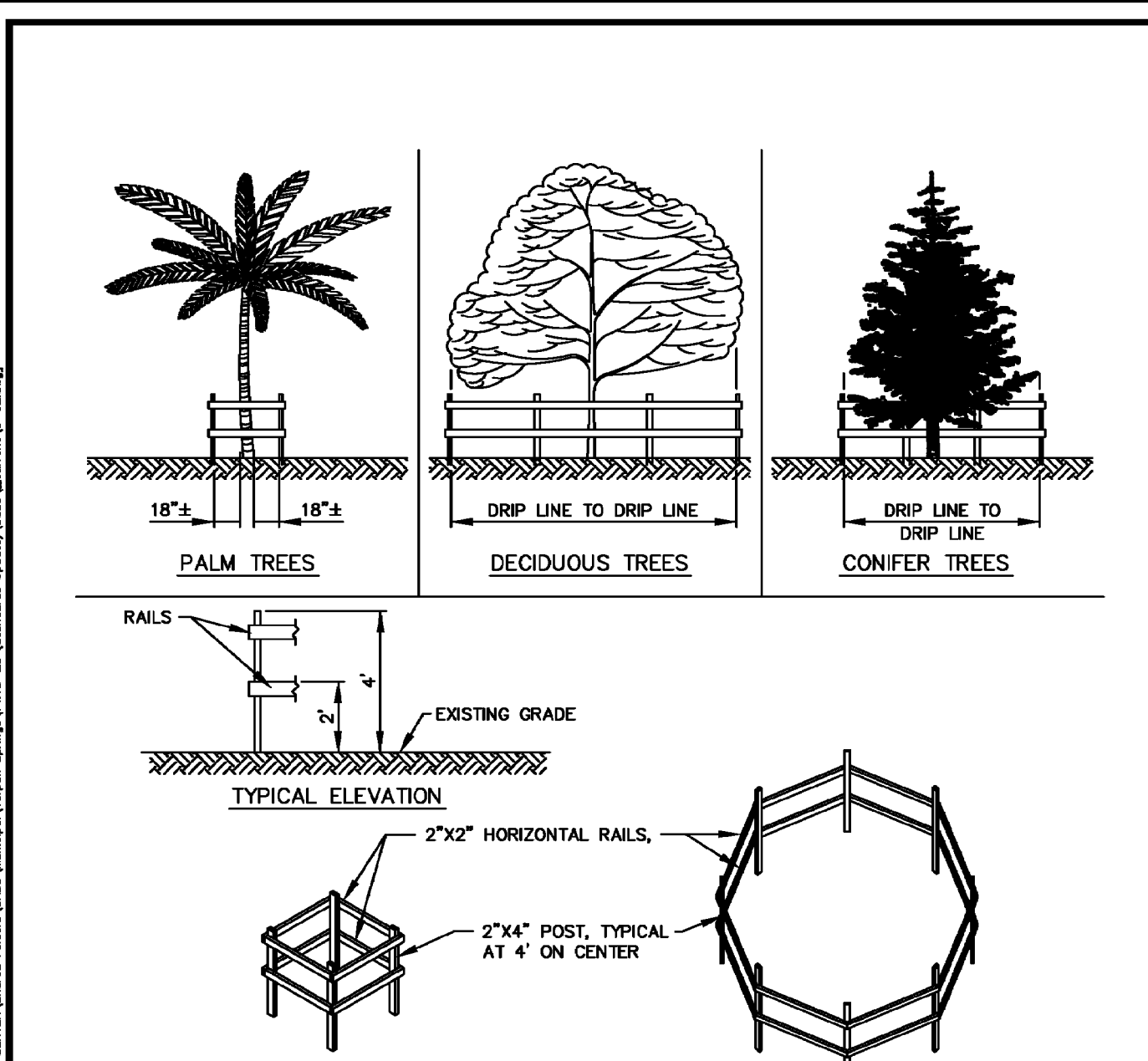
SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE.

ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER.

FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

	<b>CITY OF TARPON SPRINGS</b> PINELLAS COUNTY, FLORIDA	<b>SILT FENCE INSTALLATION DETAIL</b>	DATE: 12/15/15
			INDEX: G-01
			SHEET: 1 OF 1
			SCALE: N.T.S.



**PALM TREES**  
**DECIDUOUS TREES**  
**CONIFER TREES**

18"±  
18"±

D RIP LINE TO D RIP LINE

D RIP LINE TO D RIP LINE

D RIP LINE TO D RIP LINE

RAILS

EXISTING GRADE

TYPICAL ELEVATION

2"x2" HORIZONTAL RAILS

2"x4" POST, TYPICAL AT 4' ON CENTER

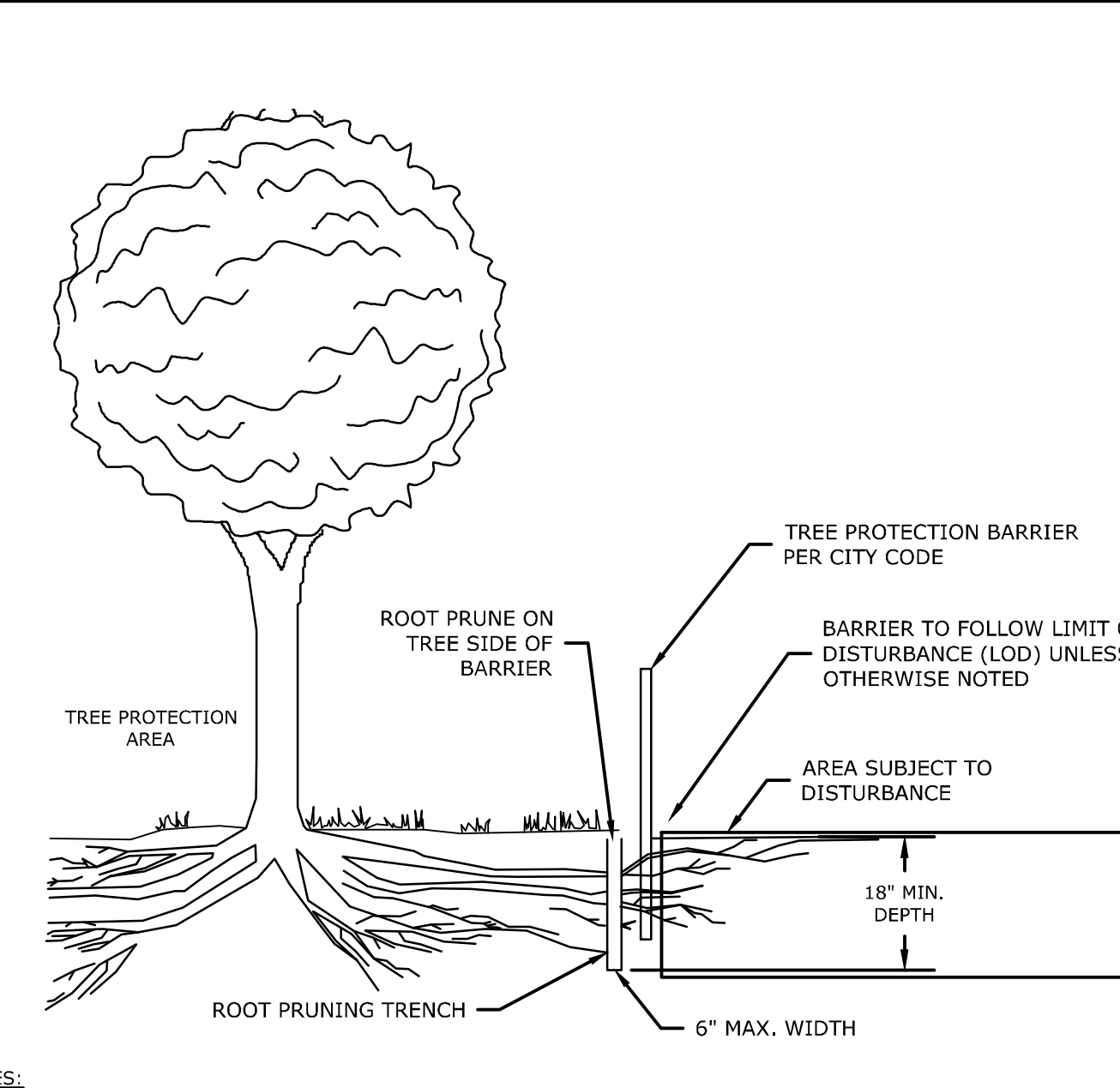
**PALMS AND SMALL TREES**  
SEE NOTE 5

**LARGE TREES AND TREE CLUSTERS**  
SEE NOTE 6

**NOTES:**

- NO TRUCKS OR HEAVY EQUIPMENT ALLOWED WITHIN BARRIERS. ONLY HAND LABOR ALLOWED.
- NO CONSTRUCTION MATERIALS, SOIL DEPOSITS, OR SOLVENTS SHALL BE ALLOWED INSIDE BARRIERS.
- BARRIERS ARE TO BE IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITIES NEAR TREES.
- BARRIERS ARE TO REMAIN IN PLACE UNTIL ALL PAVING, CONSTRUCTION, AND HEAVY EQUIPMENT ARE REMOVED FROM THE AREA.
- FOR SINGULAR PALM TREES AND TREES FROM 1" TO 8" DBH.
- FOR LARGER TREES LARGER THAN 8" DBH AND TREE CLUSTERS THAT NEED BARRIERS.

	<b>CITY OF TARPON SPRINGS</b> PINELLAS COUNTY, FLORIDA	<b>TREE PROTECTION FENCE BARRIERS DETAIL</b>	DATE: 12/15/15
			INDEX: G-02
			SHEET: 1 OF 1
			SCALE: N.T.S.

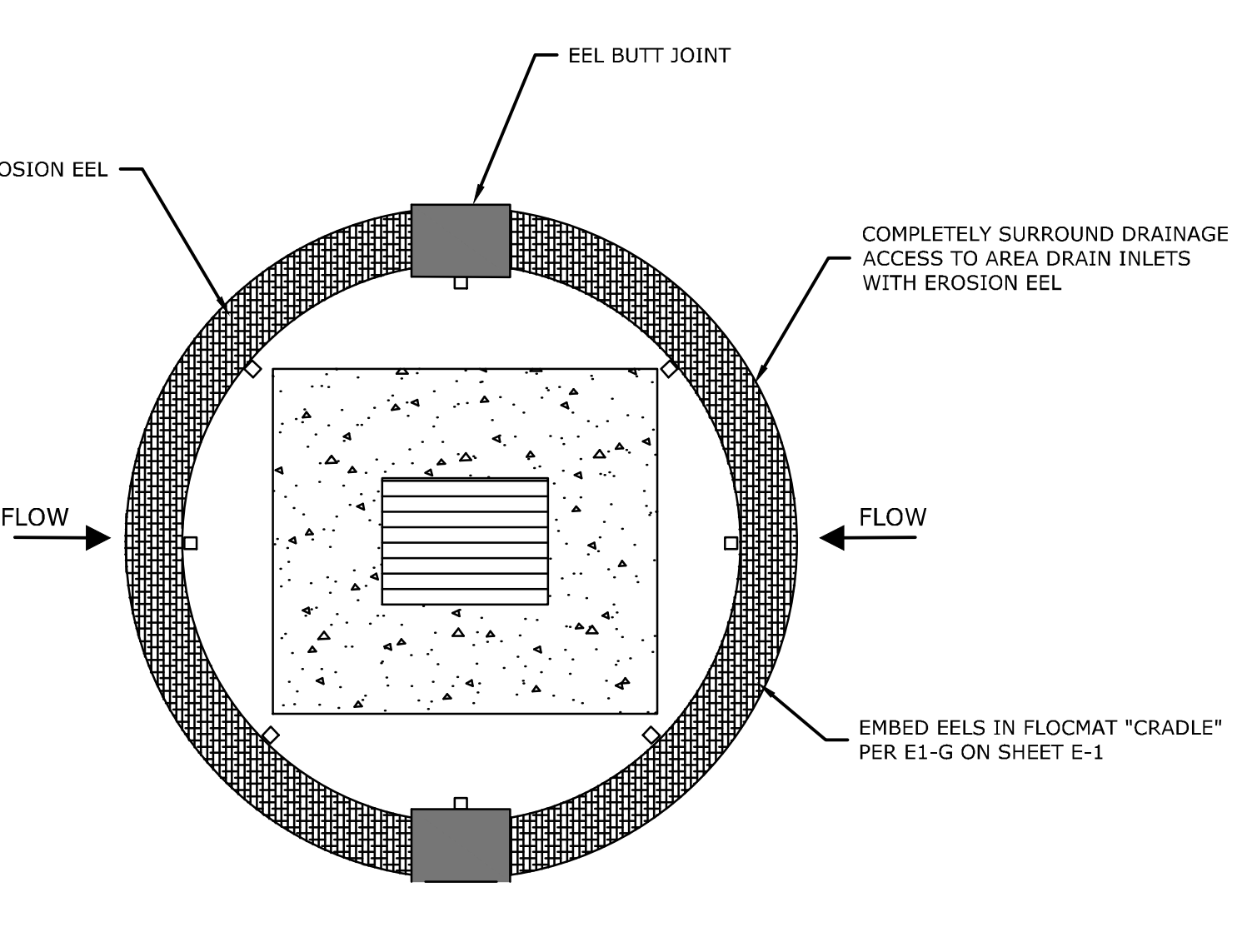


**ROOT PRUNING DETAIL**  
N.T.S.

**NOTES:**

- CRITICAL ROOT ZONE (CRZ) IS EQUAL TO 10" PER INCH OF TRUNK DIAMETER MEASURED 4.5 INCHES HIGH OFF OF GRADE. IE 30" DIAMETER = 25' (CRZ).
- TREE PROTECTION ZONE (TPZ) IS AREA AS DEFINED IN CLEARWATER INDEX NO. 909.
- ROOT PRUNING TO BE PERFORMED BY AN ISA CERTIFIED ARBORIST ONLY USING A SPECIALIZED ROOT PRUNING MACHINE.
- ALL ROOTS TO BE CUT CLEAN AND AN APPROVED FUNGICIDE APPLIED TO ALL CUTS UNDER 30 MINUTES FROM TIME OF CUTTING.
- NO CUTTING OF ROOTS SHALL BE PERMITTED WITHIN THE CRZ.
- TPZ BARRIER TO BE ERRECTED PRIOR TO ANY WORK ON SITE.
- BACKFILL TENCH WITH NATIVE SOIL AFTER CUTTING IS APPROVED BY CITY ARBORIST.

	<b>CITY OF TARPON SPRINGS</b> PINELLAS COUNTY, FLORIDA	<b>TREE PROTECTION FENCE BARRIERS DETAIL</b>	DATE: 12/15/15
			INDEX: G-02
			SHEET: 1 OF 1
			SCALE: N.T.S.



**INLET SEDIMENT TRAP DETAIL**  
N.T.S.

EROSION EEL  
EEL BUTT JOINT

COMPLETELY SURROUND DRAINAGE ACCESS TO AREA DRAIN INLETS WITH EROSION EEL

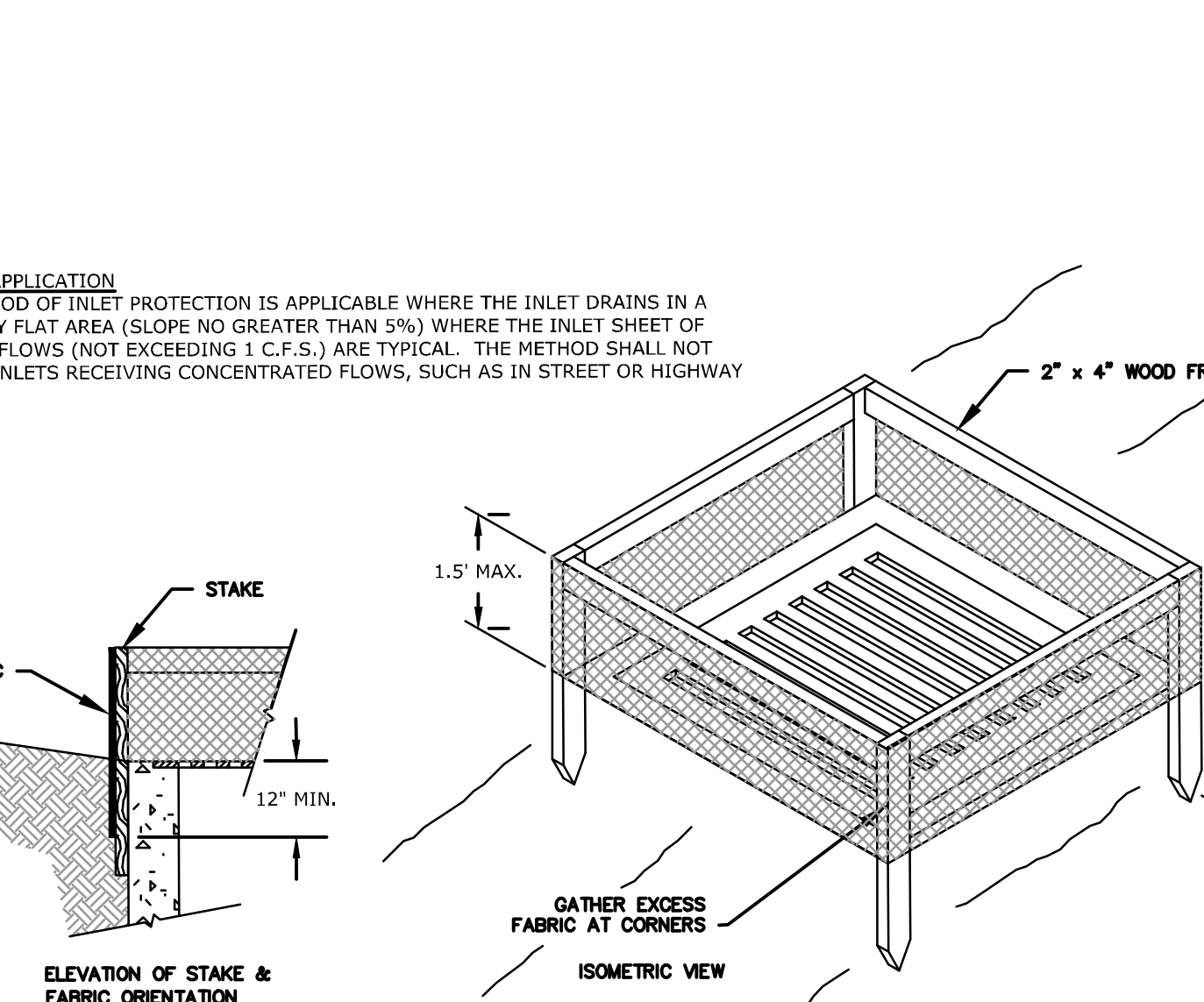
FLOW

FLOW

EMBED EEELS IN FLOCMAT "CRADLE" PER E-1-G ON SHEET E-1

**NOTE:**  
EROSION EEELS USED FOR INLET PROTECTION SHALL CONSIST OF EITHER MIXTURE SPECIFICATION 1.0 OR 1.1, PER ENGINEER'S RECOMMENDATIONS.

**NOTE:**  
PERIODIC MAINTINEENCE SHALL INCLUDE CLEANING EEL SURFACE WITH HIGH PRESSURE WASH OR BRUSHING SURFACE WITH BROOM.



**TEMPORARY SEDIMENT BARRIER AT DROP INLET**  
N.T.S.

**SPECIFIC APPLICATION**  
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS IN A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OF OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

2" x 4" WOOD FRAME

1.5' MAX.

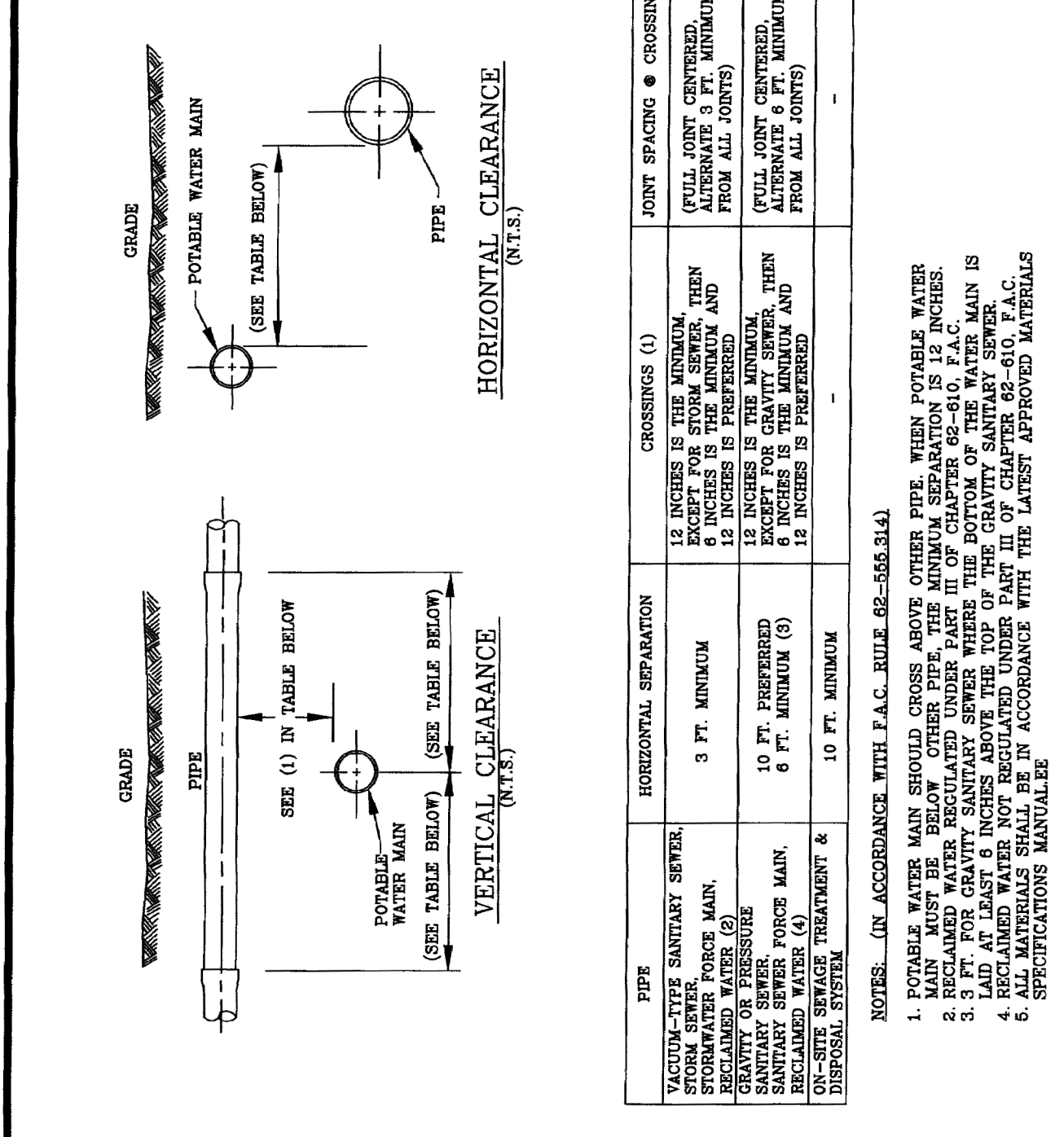
3' MIN.

GATHER EXCESS FABRIC AT CORNERS

ISOMETRIC VIEW

**ELEVATION OF STAKE & FABRIC ORIENTATION**

12" MIN.



**MAIN CLEARANCES DETAIL**  
N.T.S.

	<b>PINELLAS COUNTY</b>	<b>MAIN CLEARANCES DETAIL</b>	DATE: 12/12/2018
			SCALE: AS SHOWN
			REVISION: <i>Kevin Beattie</i>
			REVISION: <i>Kevin Beattie</i>

**CITY OF TARPON SPRINGS, FLORIDA**

City of Tarpon Springs, Florida  
ENGINEERING SERVICES & UTILITIES  
324 EAST PINE STREET  
TARPON SPRINGS, FLORIDA 34688

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NO.	DATE	REVISION	BY

**SEABREEZE DRIVE SANITARY SEWER PROJECT**

CITY OF TARPON SPRINGS  
PINELLAS, FLORIDA

**TREE BARRICADE, EROSION & SEDIMENTATION CONTROL DETAILS**

**PINELLAS COUNTY**

**PCU GD 2**

DATE: FEB/2016

REVISION: *Kevin Beattie*

JOB NO: 0517-00102-2018-1740

DATE: 12/12/2018

SCALE: AS SHOWN

**D1.01**

50% SUBMITTAL  
05/01/20































