

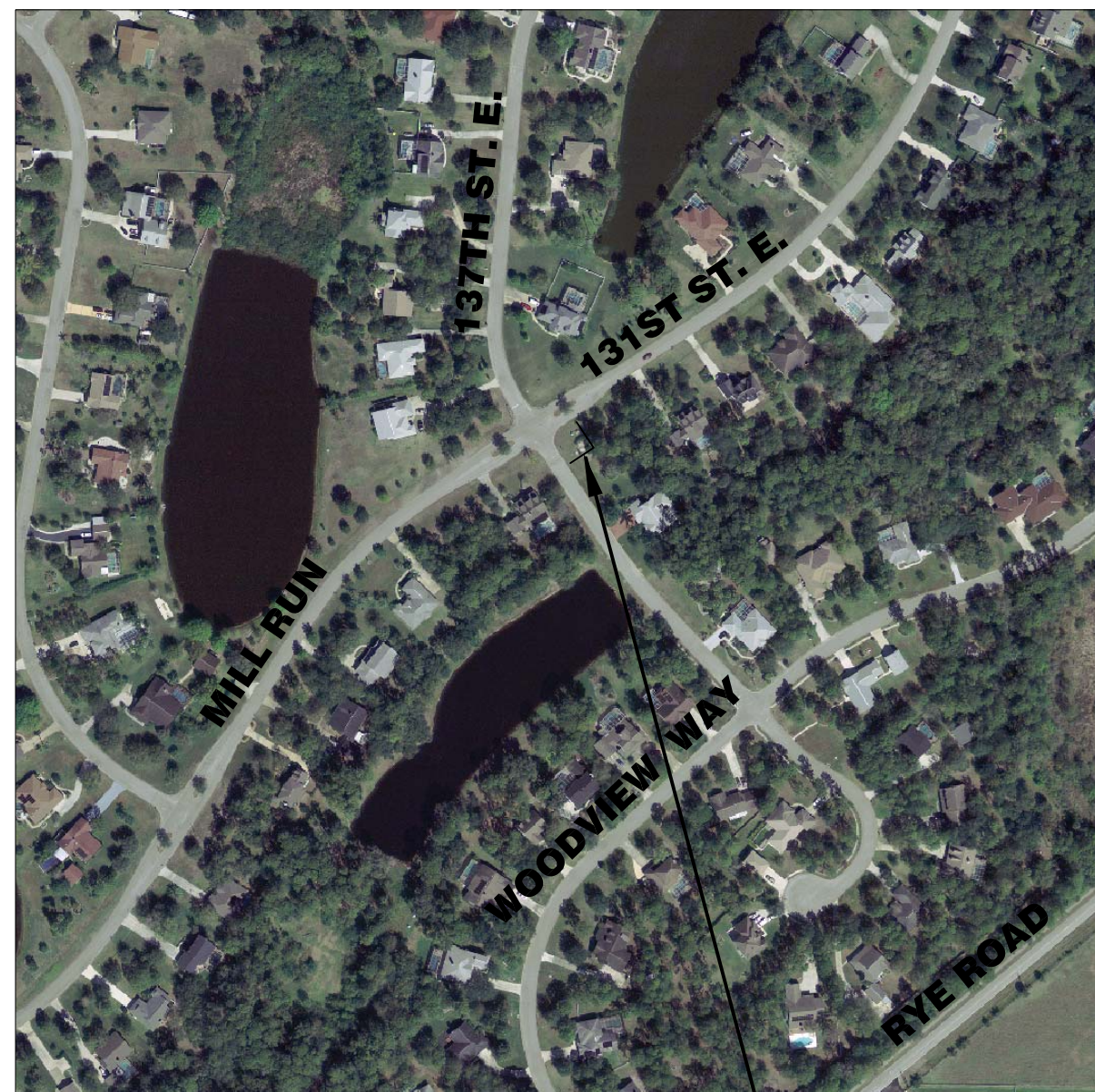
MANATEE COUNTY, FLORIDA

LIFT STATION UPGRADES

MILL CREEK 1 LIFT STATION REHAB

404-6050980/5310001

NOVEMBER 2008

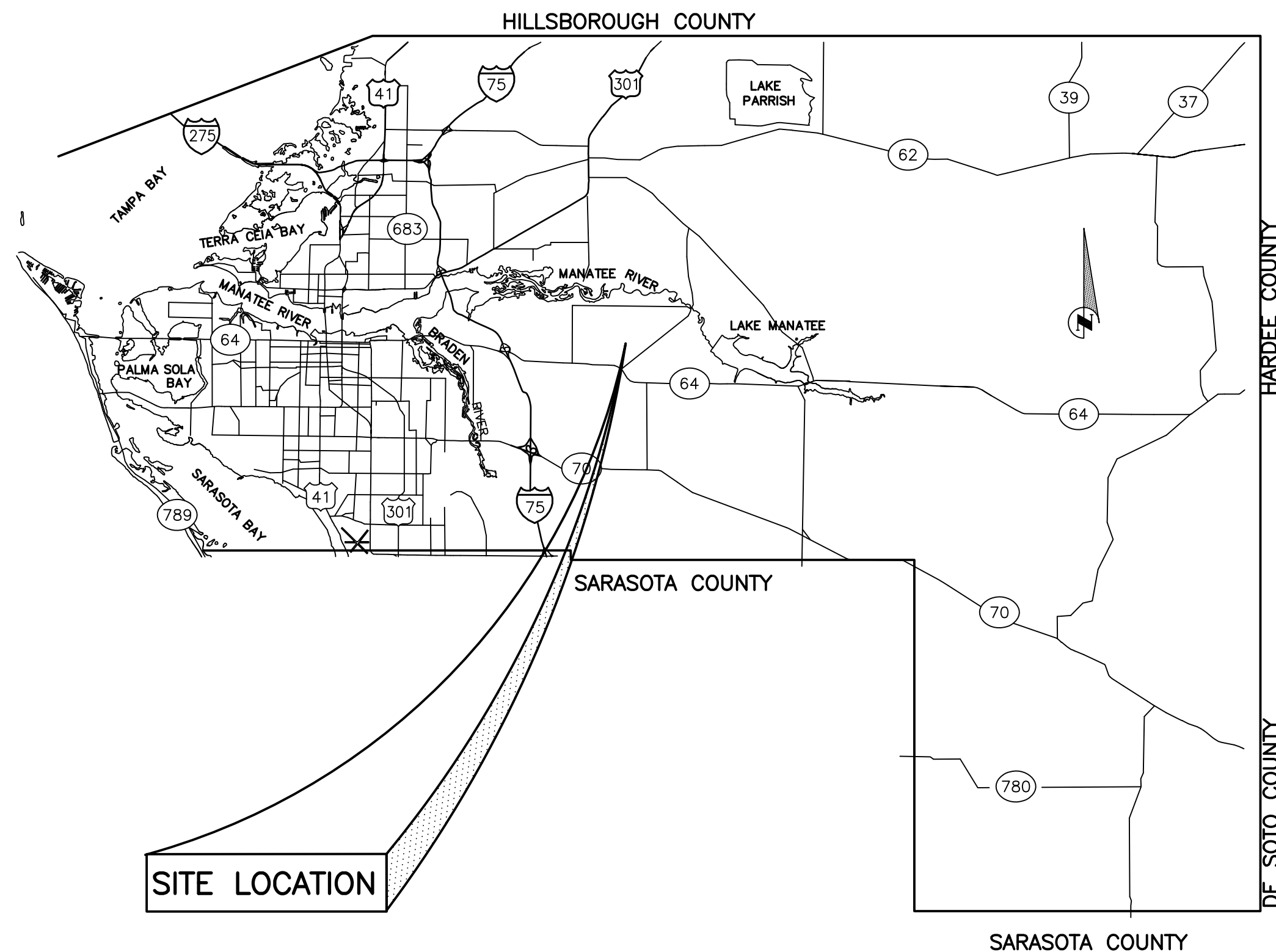
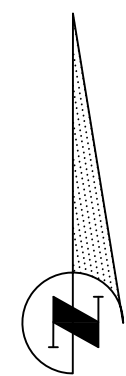


VICINITY MAP
N.T.S.

PROJECT SITE
MILL CREEK 1 LIFT STATION
RTU 350

PROJECT DESCRIPTION

REMOVE AND REPLACE PUMP BASE ELLS,
PIPING, VALVES, FITTINGS, FLOW METER,
REPAIR EXISTING LINER IN WET WELL AND
INSTALL EMERGENCY GENERATOR ON SITE PER
MANATEE COUNTY STANDARDS, LATEST EDITION.



NO. INDEX OF SHEETS

1	COVER SHEET
2	GENERAL NOTES & LEGEND
3	PLAN & ELEVATION
4	DETAILS
5	EMERGENCY GENERATOR SITE PLAN
6	EROSION CONTROL

SEC. TWP. RGE	28,34S,19		
SURVEY BOOK NO.	----		
PROJECT NUMBER	404-6050980		
	By	Checked	Date
Surveyed	N/A	----	----
Drawn	JEL		
Designed	WRT		

NOTE:
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WAYNE R. TROXLER/62204
Engineer / Reg. No.

PUBLIC WORKS DEPT.-ENGINEERING DIVISION



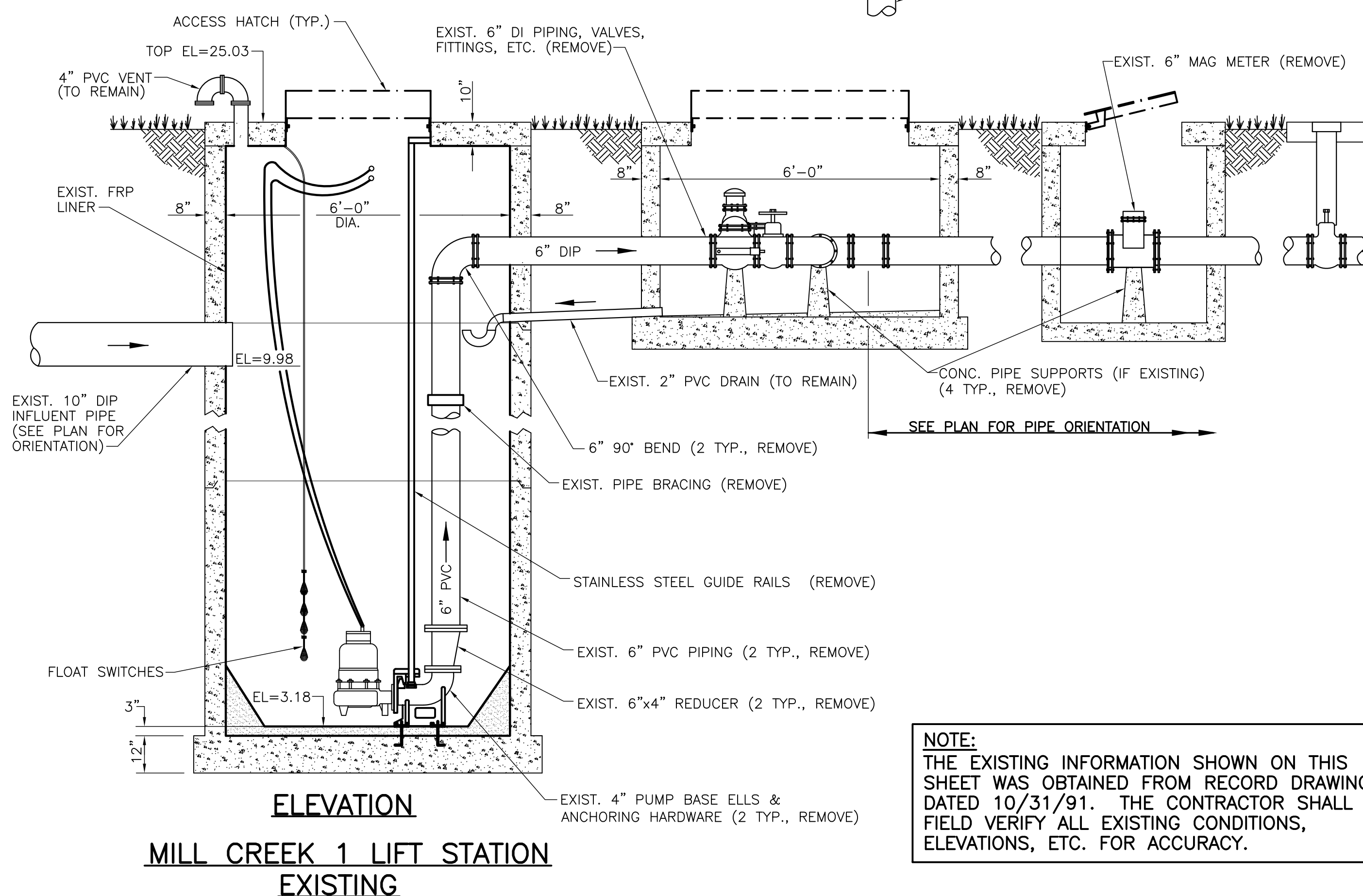
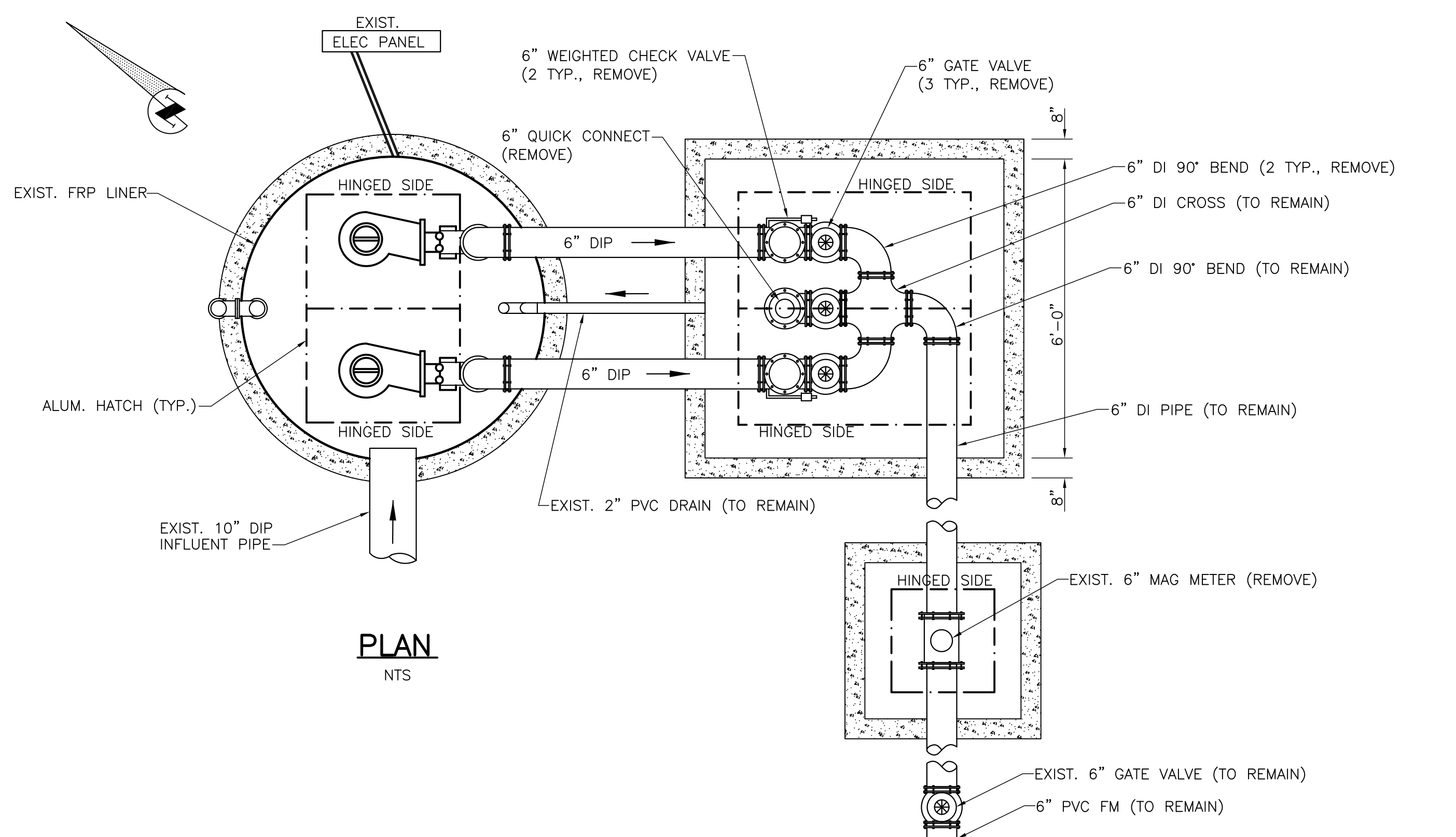
4422-B 66th Street West, Bradenton, FL 34210

NO.	REVISION DESCRIPTION	BY	DATE

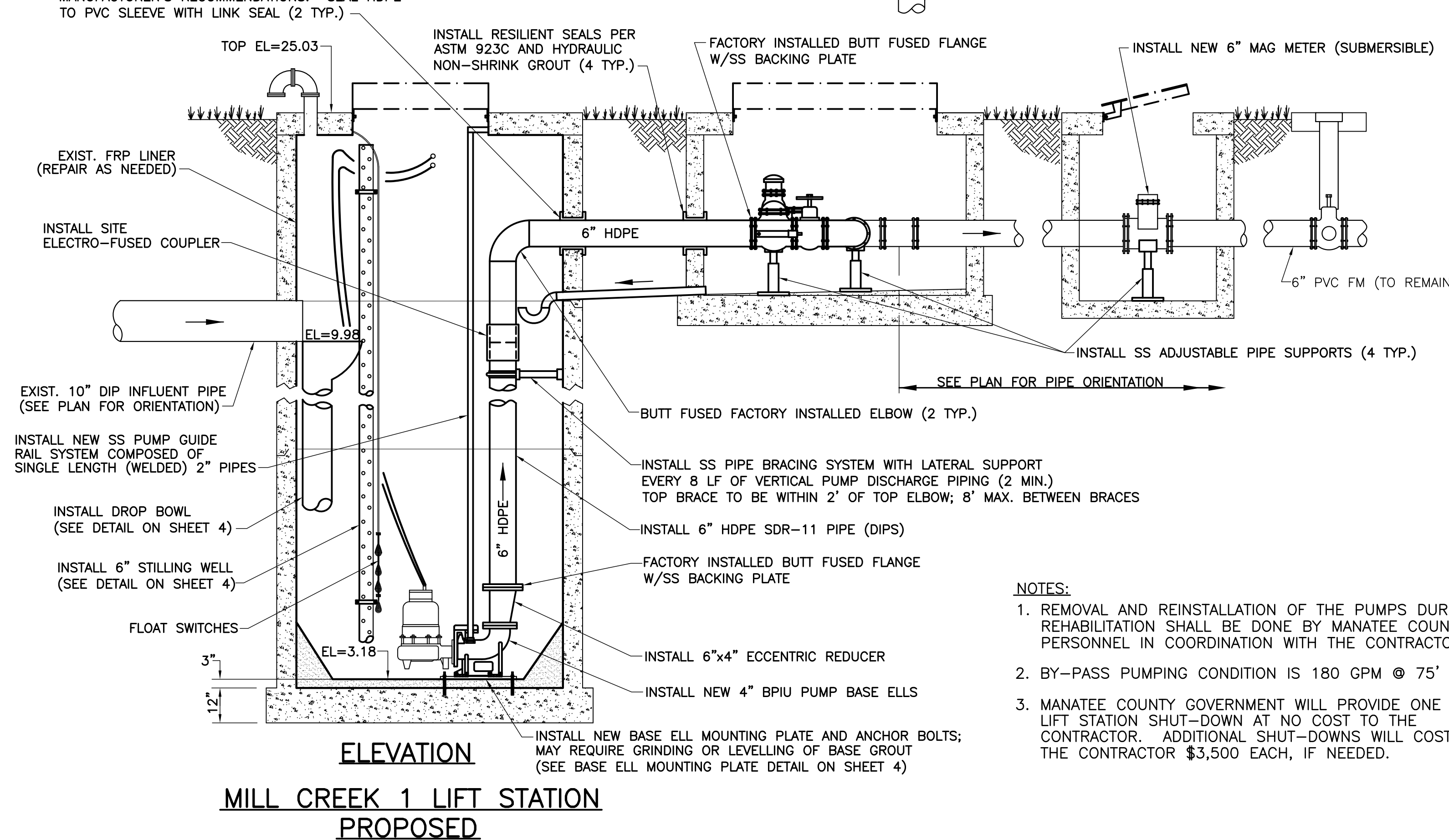
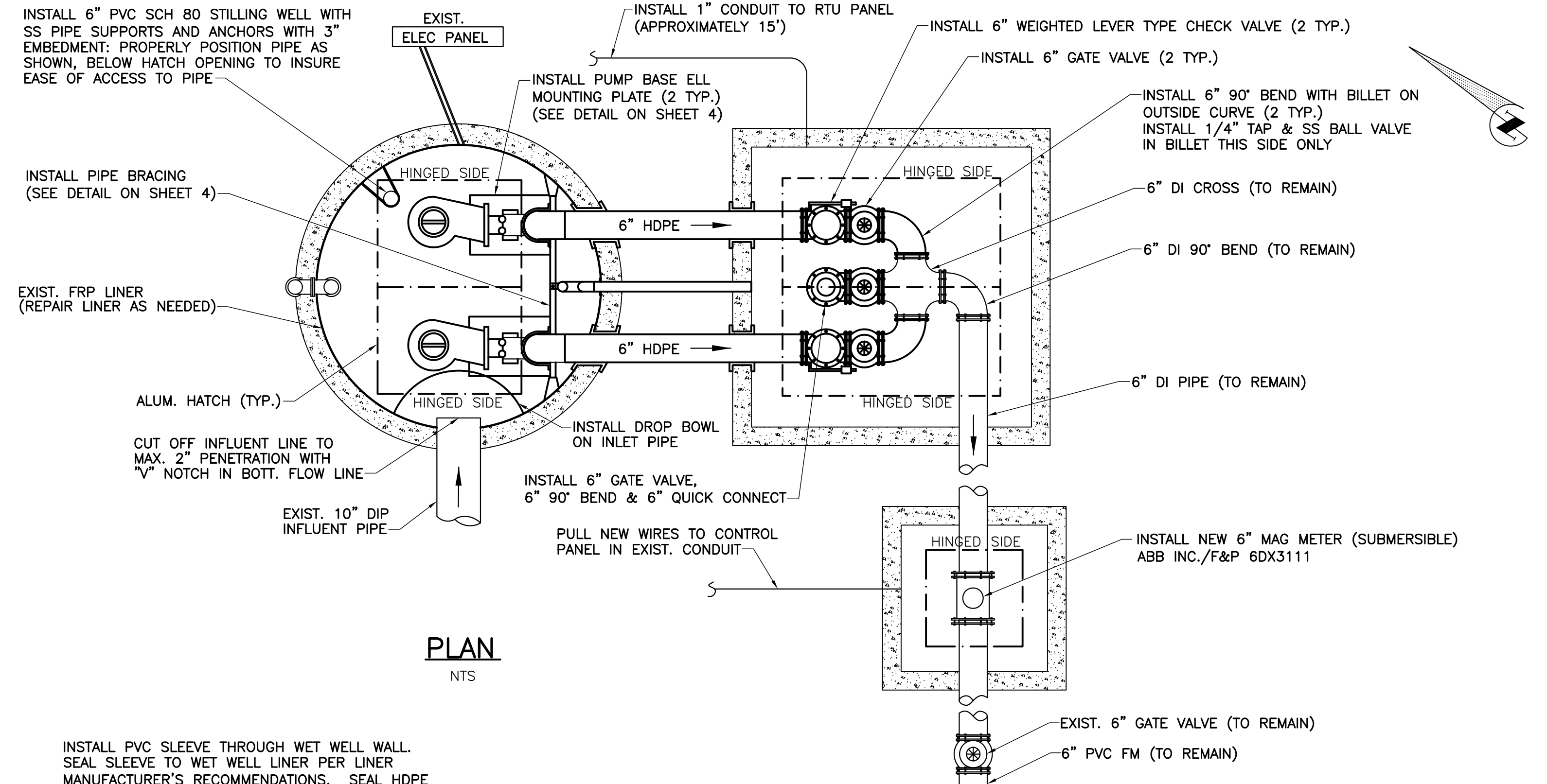
**LIFT STATION UPGRADES
MILL CREEK 1 LIFT STATION REHAB**

COVER SHEET

P:\SANTARY SEWER Projects\Sanitary Sewer - Lift Station Upgrades\Bayshore Yacht Basin - Braden Woods, Mill Creek - Mill Creek 1\Mill Creek 1\Wg_Cover_Sheet_11/02/08 2:24 PM Bruce Robertson_11_ARCH.D



NOTE:
THE EXISTING INFORMATION SHOWN ON THIS SHEET WAS OBTAINED FROM RECORD DRAWINGS DATED 10/31/91. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, ETC. FOR ACCURACY.



- NOTES:**
- REMOVAL AND REINSTALLATION OF THE PUMPS DURING REHABILITATION SHALL BE DONE BY MANATEE COUNTY PERSONNEL IN COORDINATION WITH THE CONTRACTOR.
 - BY-PASS PUMPING CONDITION IS 180 GPM @ 75' TDH.
 - MANATEE COUNTY GOVERNMENT WILL PROVIDE ONE (1) LIFT STATION SHUT-DOWN AT NO COST TO THE CONTRACTOR. ADDITIONAL SHUT-DOWNS WILL COST THE CONTRACTOR \$3,500 EACH, IF NEEDED.

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Drawn	JEL		
Designed	WRT		

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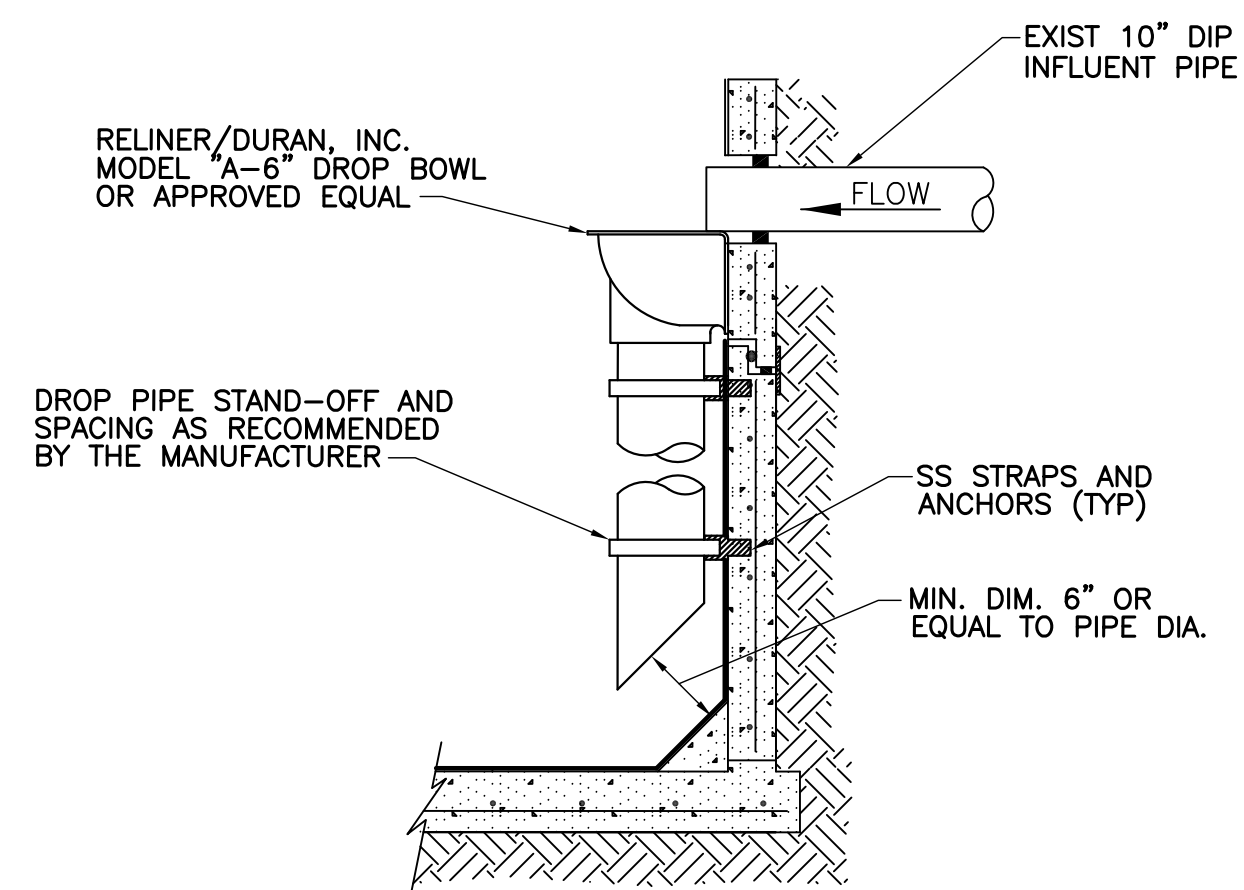
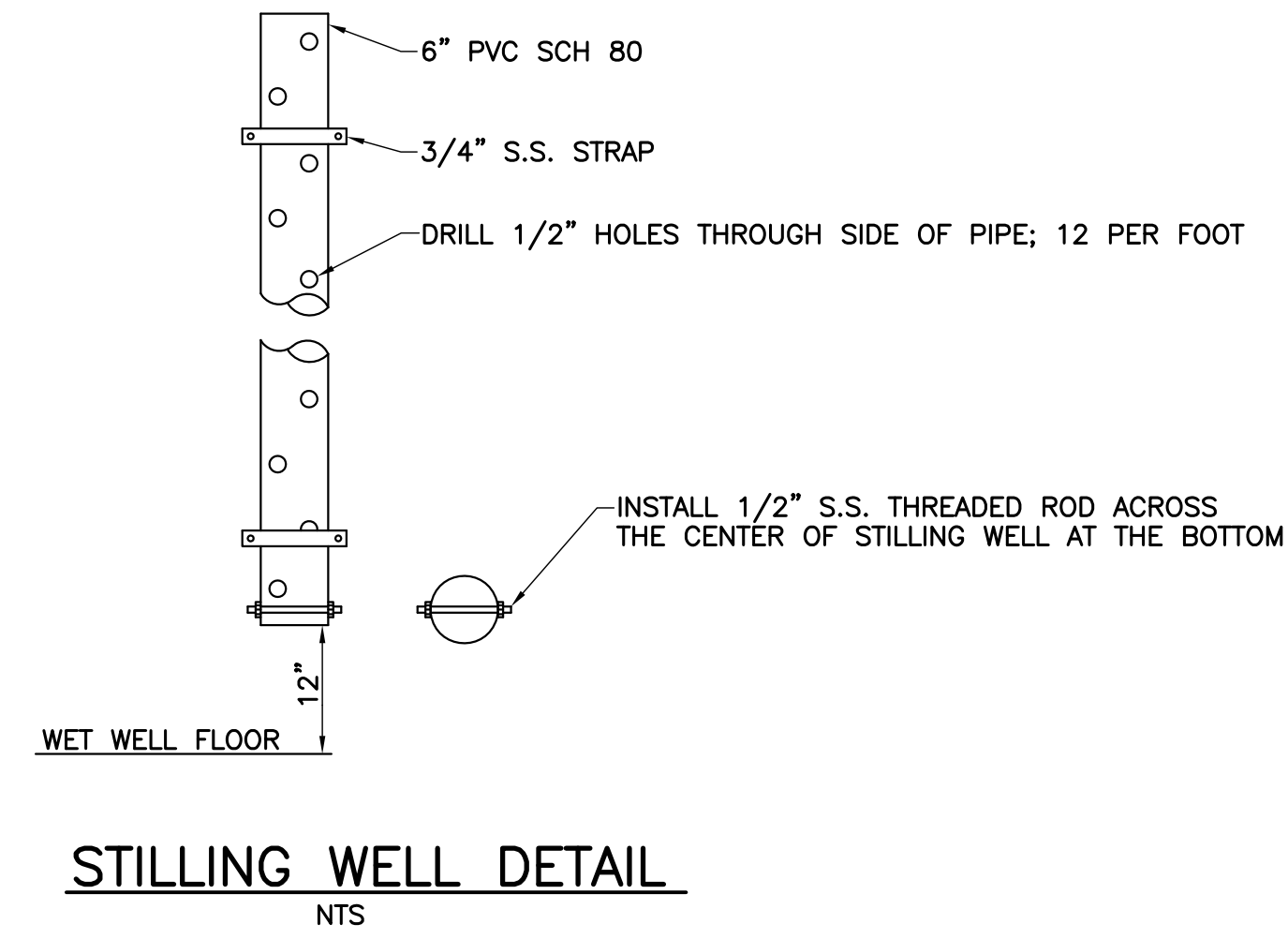
NO.	REVISION DESCRIPTION	BY	DATE

LIFT STATION UPGRADES
MILL CREEK 1 LIFT STATION REHAB

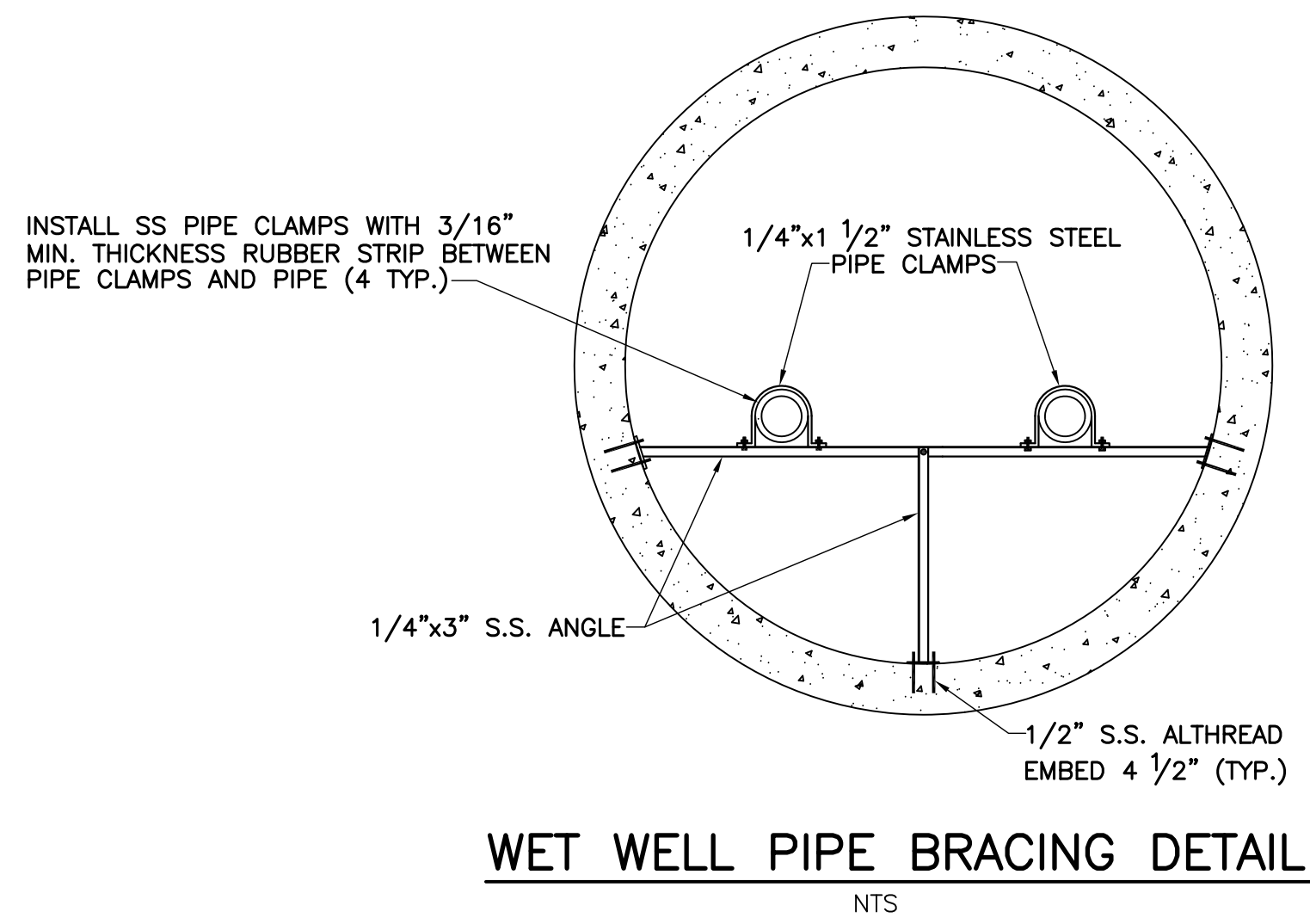
PLAN & ELEVATION

Sheet
3
6

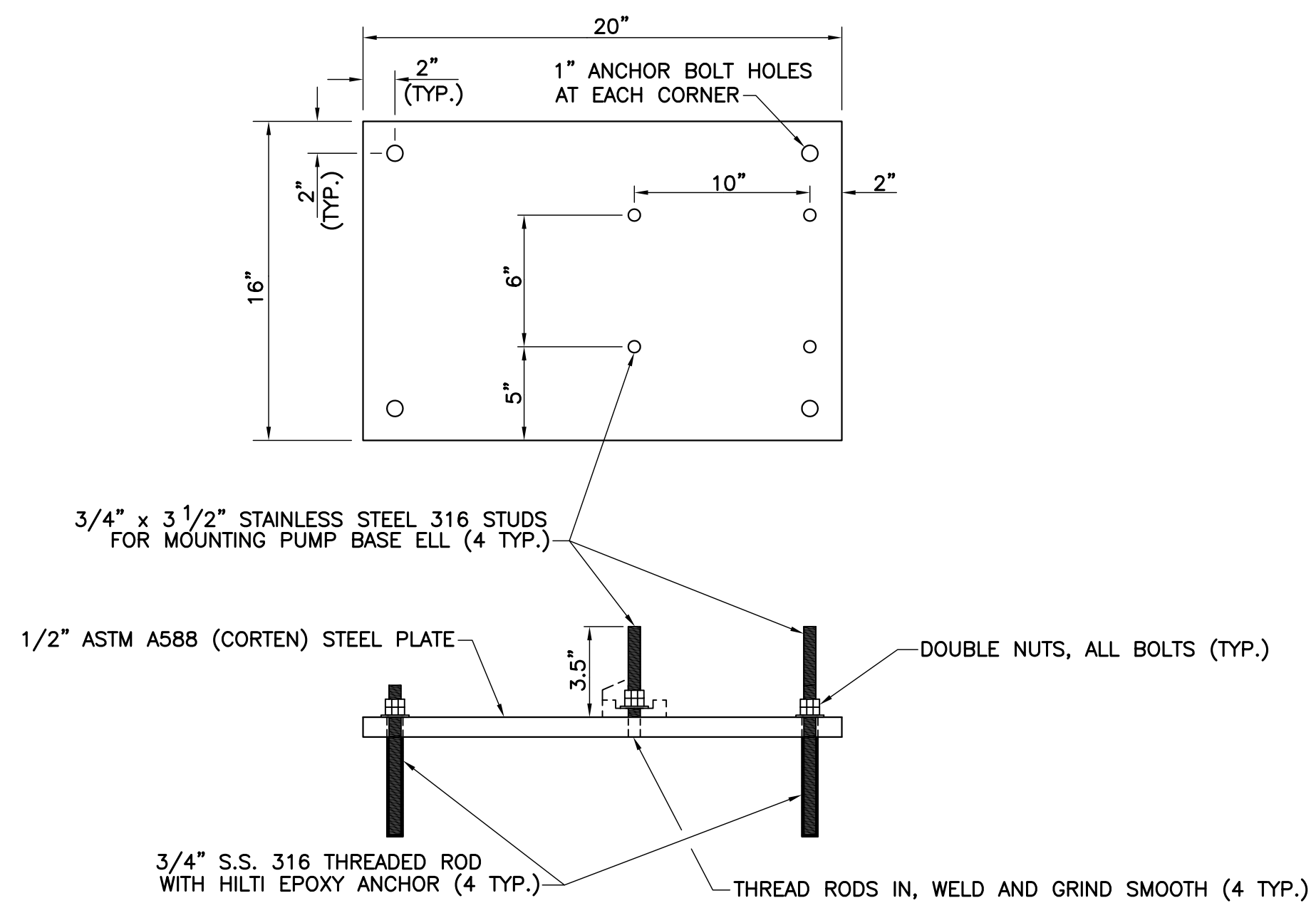
P:\SANITARY SEWER PROJECTS\Substation Sewer - Lift Station Upgrade\Bayshore Yacht Basin, Braden Woods, Mill Creek, 1 Mill Creek 1Degr100%Mill Creek 1.dwg, Details, 11/22/2008 2:25 PM Bruce Robinson, 1:1, ARCH D



- NOTES:
1. PVC PIPE AND FITTINGS SHALL BE SDR-35.
2. ALL HARDWARE AND FASTENERS SHALL BE 304 STAINLESS STEEL.



NOTE:
THE PIPE CLAMPS SHALL BE CONSTRUCTED FROM MIN. 1 1/2" x 1/4" STAINLESS STEEL FLAT STOCK. ALL BRACING SYSTEM COMPONENTS SHALL BE CONNECTED USING STAINLESS STEEL FASTENERS. ALL THREADED CONNECTIONS SHALL HAVE STAINLESS STEEL FLAT WASHERS AND STAINLESS STEEL NYLON INSERT LOCK NUTS.




- NOTES:
1. INSTALL DOUBLE NUTS ON ALL EIGHT (8) THREADED RODS.
2. THE PLATE EDGES AND ALL HOLES SHALL BE GROUND SMOOTH TO REMOVE ALL BURS.

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Drawn	JEL		
Designed	WRT		

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WAYNE R. TROXLER/62204
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4422-B 66th Street West, Bradenton, FL 34210

NO.	REVISION DESCRIPTION	BY	DATE

LIFT STATION UPGRADES
MILL CREEK 1 LIFT STATION REHAB

DETAILS

Sheet 4
6

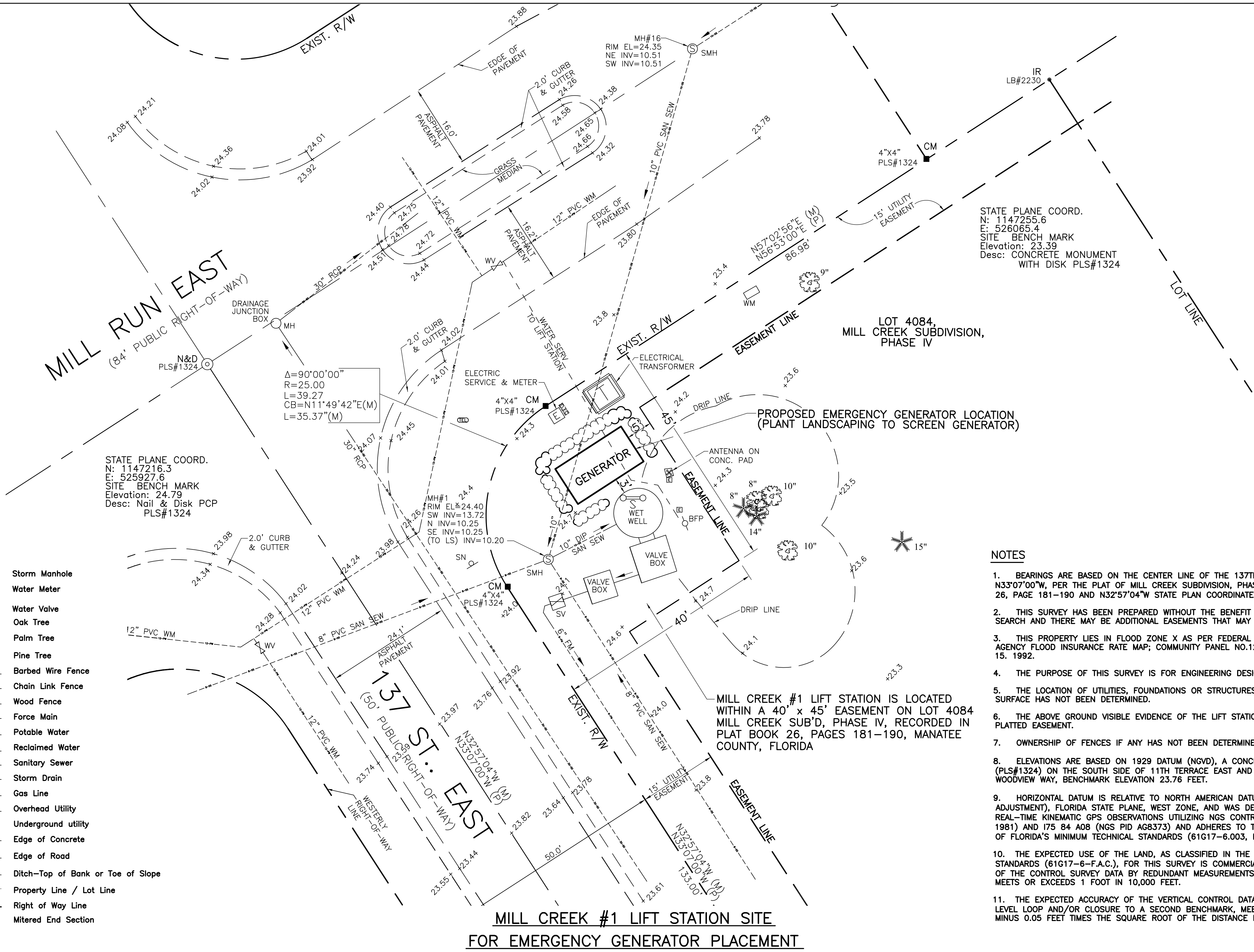
- ABBREVIATIONS**
- C — CENTER LINE
 - P.S.M. — PROFESSIONAL SURVEYOR & MAPPER
 - SEC. — SECTION
 - TWP. — TOWNSHIP
 - RGE. — RANGE
 - R/W — RIGHT-OF-WAY
 - (D) — DEED DATA
 - (P) — PLAT DATA
 - (M) — MEASURED DATA
 - CONC. — CONCRETE
 - C.B. — CONCRETE BLOCK
 - BLDG. — BUILDING
 - O.R. — OFFICIAL RECORDS
 - EL. — ELEVATION
 - USC&GS — UNITED STATES COAST & GEODETIC SURVEY
 - NGVD — NATIONAL GEODETIC VERTICAL DATUM
 - W. — WOOD
 - C.P. — CARPORT
 - STY. — STORY
 - SAN. — SANITARY
 - INV. — INVERT
 - IR&C — IRON ROD & CAP
 - V.C.P. — VITRIFIED CLAY PIPE
 - C.M.P. — CORRUGATED METAL PIPE
 - P.B.K. — PLAT BOOK
 - BLK. — BLOCK
 - P.V.M.T. — PAVEMENT
 - A/C — AIR CONDITION
 - R.R. — RAILROAD
 - SUB. — SUBDIVISION
 - FND. — FOUND
 - MON. — MONUMENT
 - COR. — CORNER
 - RM. — ROOM
 - HSE. — HOUSE
 - STA. — STATION
 - R.C.P. — REINFORCED CONC. PIPE
 - P.V.C. — POLYVINYL CHLORIDE PIPE
 - P. — PLAT
 - P.O.B. — POINT OF BEGINNING
 - P.O.C. — POINT OF COMMENCEMENT
 - P.O.M. — PERMANENT REFERENCE MONUMENT
 - P.C.P. — PERMANENT CONTROL POINT
 - W. — WITH
 - FL. — FLOOR
 - TYP. — TYPICAL

LEGEND

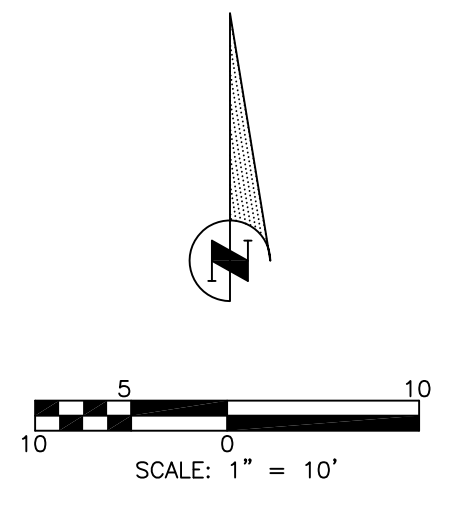
- | | | | |
|------|--|-------|-----------------------------------|
| BFP | BACK FLOW PREVENTOR | STSMH | Storm Manhole |
| CM | Concrete Monument (Found unless otherwise noted) | WM | Water Meter |
| Elev | Elevation | WV | Water Valve |
| GLWP | Gas Line Warning Post | OT | Oak Tree |
| GR | Guard Rail | PT | Palm Tree |
| GW | Guy Wire | PT | Pine Tree |
| PH | Fire Hydrant | BWF | Barbed Wire Fence |
| IR | Iron Rod (Found unless otherwise noted) | CLF | Chain Link Fence |
| N&D | Nail & Disk (Found unless otherwise noted) | WF | Wood Fence |
| LP | Light Pole | FM | Force Main |
| TEP | Telephone Pedestal | PW | Potable Water |
| MB | Mail Box | RW | Reclaimed Water |
| WP | Power Pole | SS | Sanitary Sewer |
| EM | Electric Meter | SD | Storm Drain |
| TR | Transformer | GAS | Gas Line |
| SS | Street Sign | OH | Overhead Utility |
| SPR | Sprinkler | EP | Edge of Concrete |
| SSMH | Sanitary Sewer Manhole | EP | Edge of Road |
| SC | Sanitary Sewer Clean-out | DM | Ditch—Top of Bank or Toe of Slope |
| SSVC | Sanitary Sewer Valve Cover | PL | Property Line / Lot Line |
| VENT | VENT | R/W | Right of Way Line |
| ES | ELECTRIC SERVICE | EP | Mitered End Section |

MILL RUN EAST
(84' PUBLIC RIGHT-OF-WAY)

STATE PLANE COORD.
N: 1147216.3
E: 525927.6
SITE BENCH MARK
Elevation: 24.79
Desc: Nail & Disk PCP
PLS#1324



STATE PLANE COORD.
N: 1147255.6
E: 526065.4
SITE BENCH MARK
Elevation: 23.39
Desc: CONCRETE MONUMENT
WITH DISK PLS#1324



NOTES

- BEARINGS ARE BASED ON THE CENTER LINE OF THE 137TH STREET EAST, BEING N33°07'00"W, PER THE PLAT OF MILL CREEK SUBDIVISION, PHASE IV, RECORDED IN PLAT BOOK 26, PAGE 181-190 AND N32°57'04"W STATE PLAN COORDINATES.
- THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OR TITLE SEARCH AND THERE MAY BE ADDITIONAL EASEMENTS THAT MAY BE OF PUBLIC RECORD.
- THIS PROPERTY LIES IN FLOOD ZONE X AS PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP; COMMUNITY PANEL NO.120153-0360-C, DATED JULY 15, 1992.
- THE PURPOSE OF THIS SURVEY IS FOR ENGINEERING DESIGN.
- THE LOCATION OF UTILITIES, FOUNDATIONS OR STRUCTURES, IF ANY, BENEATH THE SURFACE HAS NOT BEEN DETERMINED.
- THE ABOVE GROUND VISIBLE EVIDENCE OF THE LIFT STATION APPEARS TO BE WITHIN THE PLATTED EASEMENT.
- OWNERSHIP OF FENCES IF ANY HAS NOT BEEN DETERMINED.
- ELEVATIONS ARE BASED ON 1929 DATUM (NGVD), A CONCRETE MONUMENT WITH DISK (PLS#1324) ON THE SOUTH SIDE OF 11TH TERRACE EAST AND ITS INTERSECTION WITH WOODVIEW WAY, BENCHMARK ELEVATION 23.76 FEET.
- HORIZONTAL DATUM IS RELATIVE TO NORTH AMERICAN DATUM (NAD) OF 1983 (1990 ADJUSTMENT), FLORIDA STATE PLANE, WEST ZONE, AND WAS DERIVED FROM REDUNDANT REAL-TIME KINEMATIC GPS OBSERVATIONS UTILIZING NGS CONTROL POINTS J 254 (NGS PID AG 1981) AND I75 84 A08 (NGS PID AG8373) AND ADHERES TO THE ACCURACY REQUIREMENTS OF FLORIDA'S MINIMUM TECHNICAL STANDARDS (61G17-6.003, F.A.C.).
- THE EXPECTED USE OF THE LAND, AS CLASSIFIED IN THE FLORIDA MINIMUM TECHNICAL STANDARDS (61G17-6-F.A.C.), FOR THIS SURVEY IS COMMERCIAL/HIGH RISK. THE ACCURACY OF THE CONTROL SURVEY DATA BY REDUNDANT MEASUREMENTS AND/OR CLOSED TRAVERSE MEETS OR EXCEEDS 1 FOOT IN 10,000 FEET.
- THE EXPECTED ACCURACY OF THE VERTICAL CONTROL DATA FOR THIS SURVEY, BY A LEVEL LOOP AND/OR CLOSURE TO A SECOND BENCHMARK, MEETS OR EXCEEDS PLUS OR MINUS 0.05 FEET TIMES THE SQUARE ROOT OF THE DISTANCE IN MILES.

MILL CREEK #1 LIFT STATION SITE
FOR EMERGENCY GENERATOR PLACEMENT
SCALE: 1"=10'

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Drawn	JEL	----	----
Designed	WRT	----	----

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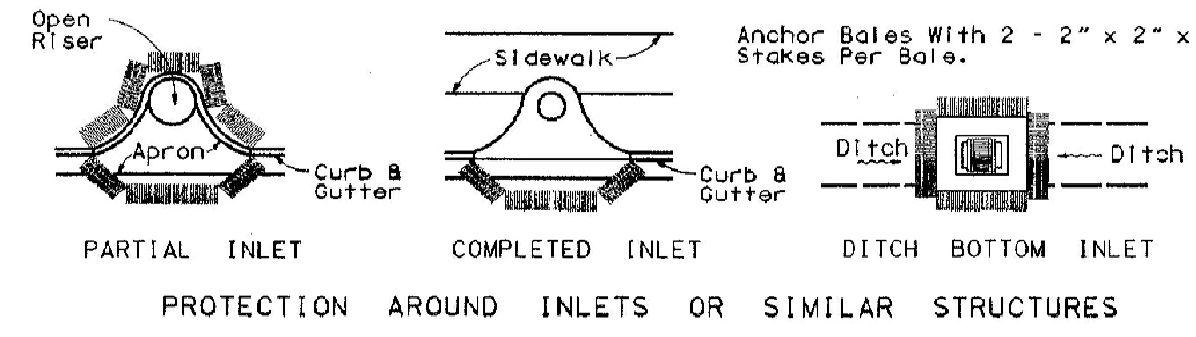
NO.	REVISION DESCRIPTION	BY	DATE

LIFT STATION UPGRADES
MILL CREEK 1 LIFT STATION REHAB

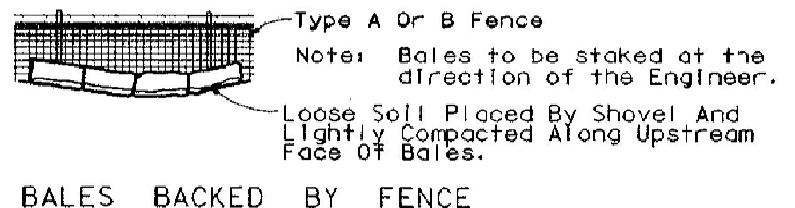
EMERGENCY GENERATOR SITE PLAN

Sheet 5
6

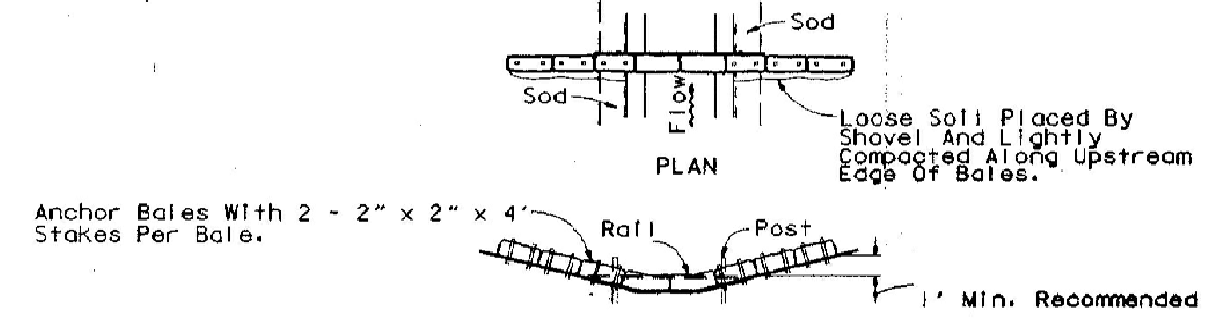
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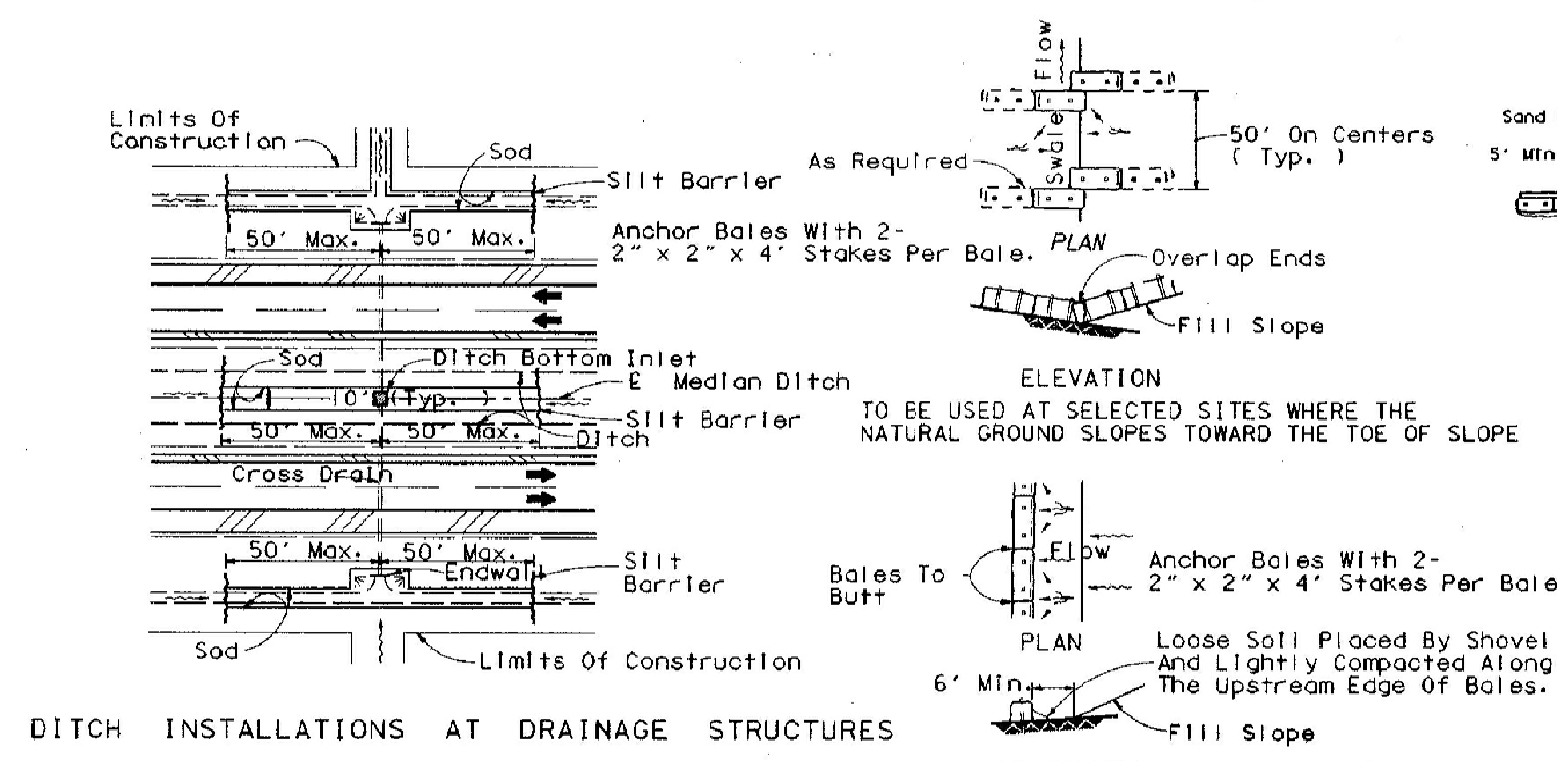
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



BALES BACKED BY FENCE



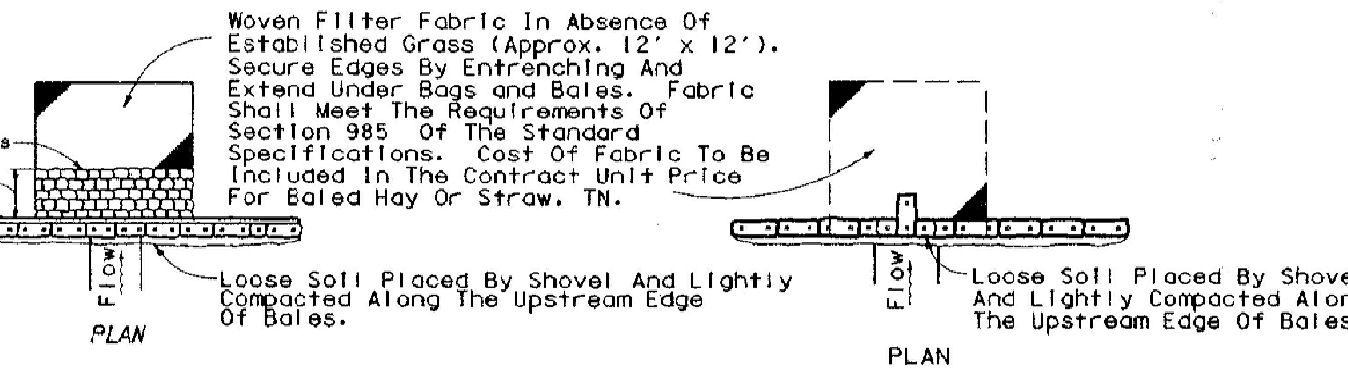
BARRIER FOR PAVED DITCH



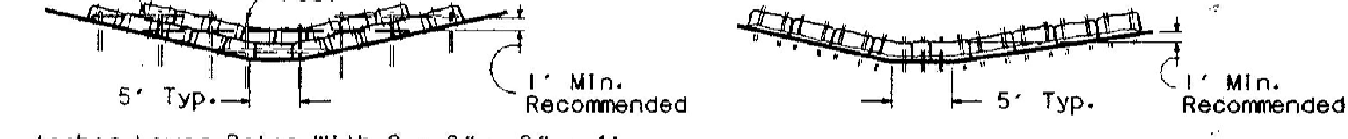
DITCH INSTALLATIONS AT DRAINAGE STRUCTURES

TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

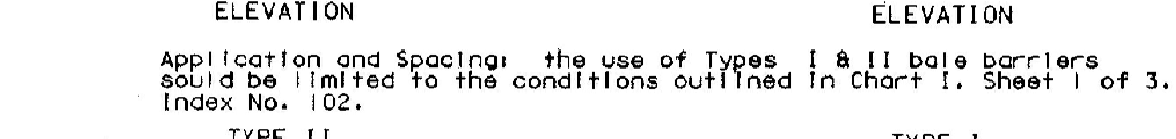
BARRIERS FOR FILL SLOPES



BARRIER FOR UNPAVED DITCHES

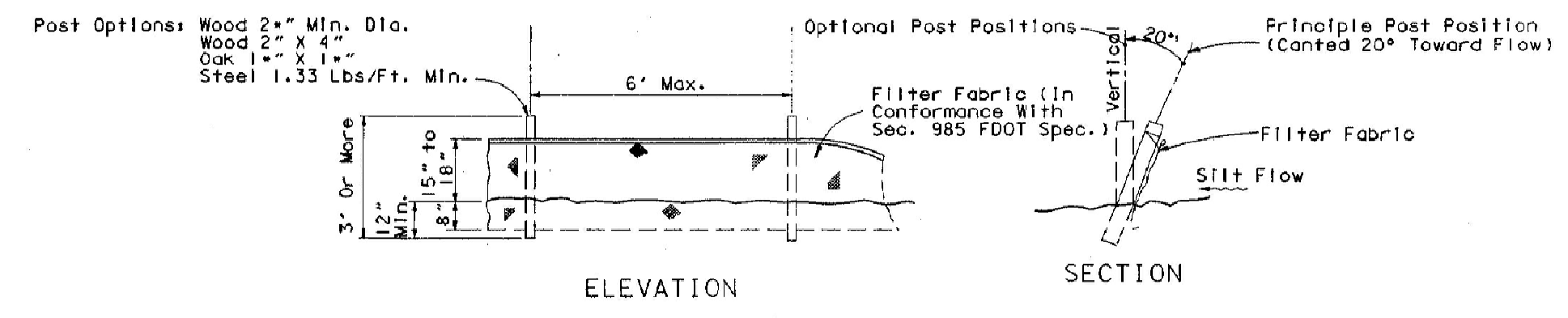


TYPE II



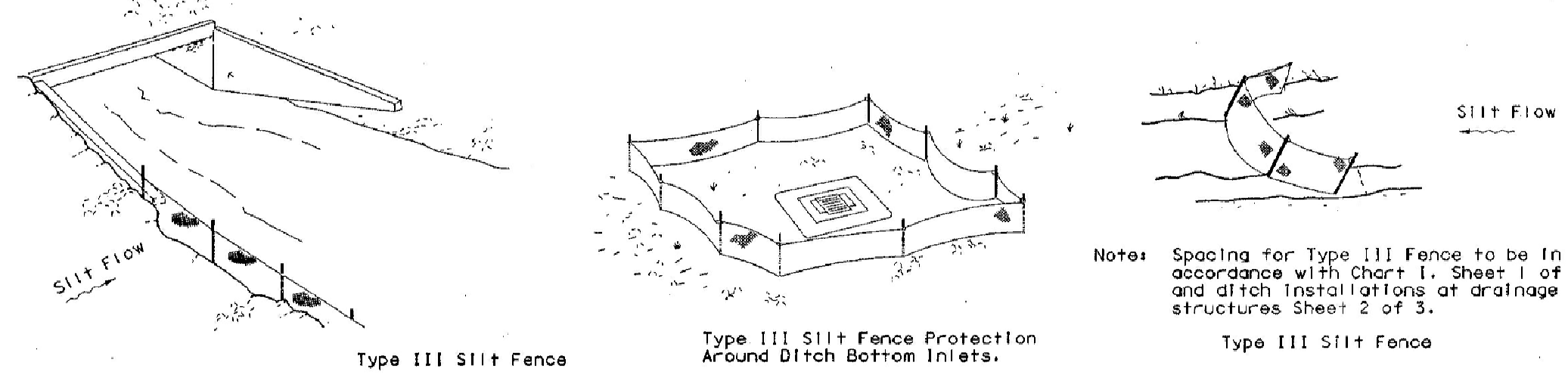
TYPE I

BALED HAY OR STRAW BARRIER AND SILT FENCES

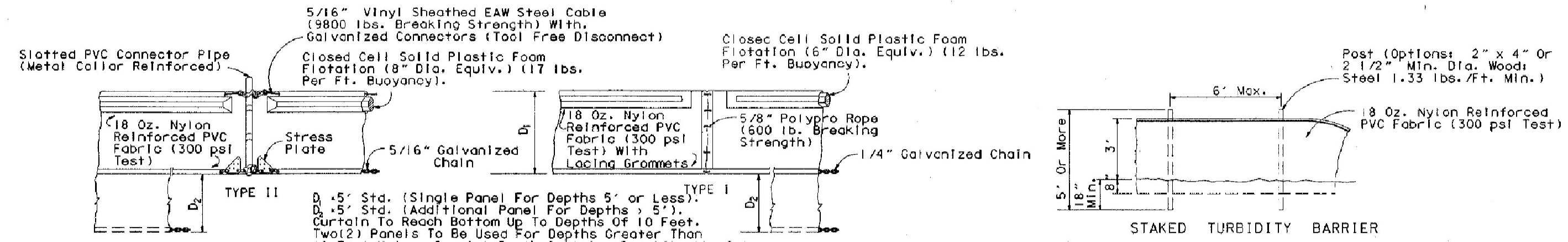


TYPE III SILT FENCE

Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).



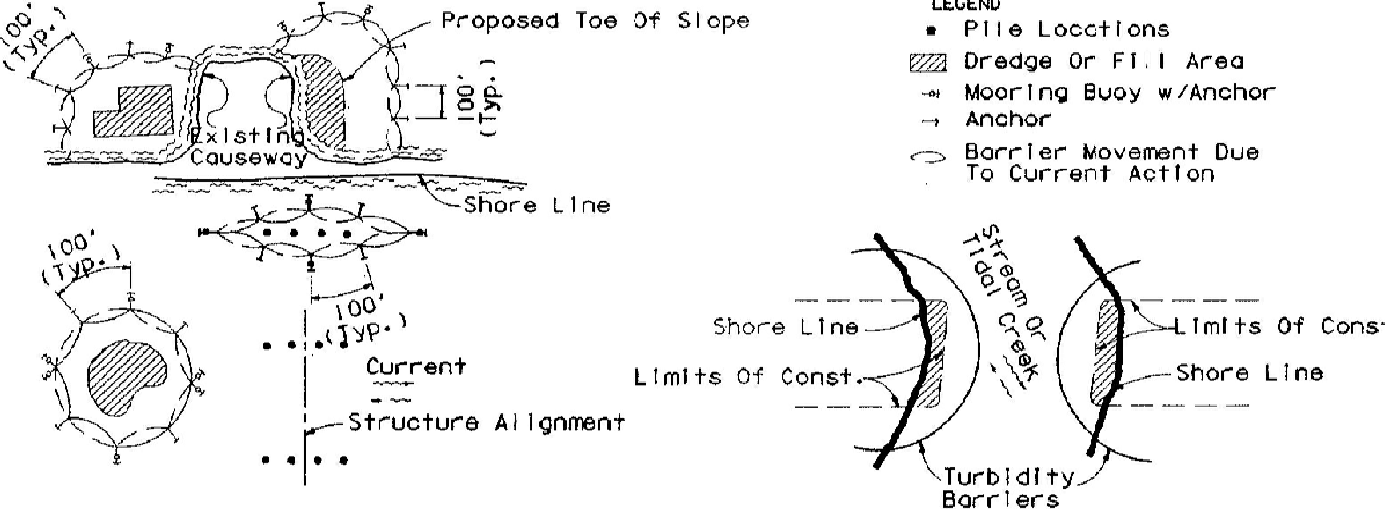
SILT FENCE APPLICATIONS



STAKED TURBIDITY BARRIER

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

FLOATING TURBIDITY BARRIERS



TURBIDITY BARRIER APPLICATIONS

TURBIDITY BARRIERS

NOTE:
REFERENCE THE FDOT DESIGN STANDARDS
LATEST EDITION FOR ALL TEMPORARY
EROSION CONTROL MEASURES.

P:\SANTARY SEWER Projects\Sanitary Sewer - Lift Station Upgrades\Bayshore Yacht Basin, Erden Woods, Mill Creek - Mill Creek 1 Mill Creek 1 Dwg\100%Mill Creek 1.dwg, Erosion Control, 11/13/2008 2:26 PM Bruce Robertson, 11_ARCH D

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**LIFT STATION UPGRADES
MILL CREEK 1 LIFT STATION REHAB**

EROSION CONTROL

Sheet 6
6