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

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

CONTRACT 18-C-00032

PRESCOTT PUMP STATION FORCEMAIN

CITY OF TAMPA
 WASTEWATER DEPARTMENT
 2545 GUY N. VERGER BOULEVARD
 TAMPA, FL 33605



VICINITY MAP
 Not to Scale
 ©OpenStreetMap contributors

PROJECT
 LOCATION

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
C0.0	COVER SHEET
C0.1	OVERALL PROJECT AREA
C1.1	STA. 1+00 TO 5+43.96
C1.2	STA. 5+43.96 TO 10+24.21
C1.3	STA. 10+24.21 TO 15+04.46
C1.4	STA. 15+04.46 TO 19+84.71
C1.5	STA. 19+84.71 TO 22+44.44
C1.6	STA. 22+44.44 TO 27+24.69
C1.7	STA. 27+24.69 TO 32+04.94
C1.8	STA. 32+04.94 TO 33+23.42
C2.1	DETAILS AND NOTES
C2.2	DETAILS AND NOTES
C2.3	SPT BORING DATA

100% CONSTRUCTION DRAWINGS - 10/11/18

REVISIONS					
BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION

MILLS and ASSOCIATES, INC.
 CONSULTING ENGINEERS & LAND SURVEYORS
 3242 HENDERSON BOULEVARD - SUITE 300
 TAMPA, FLORIDA 33609-3056
 TELEPHONE: (813) 876-5869

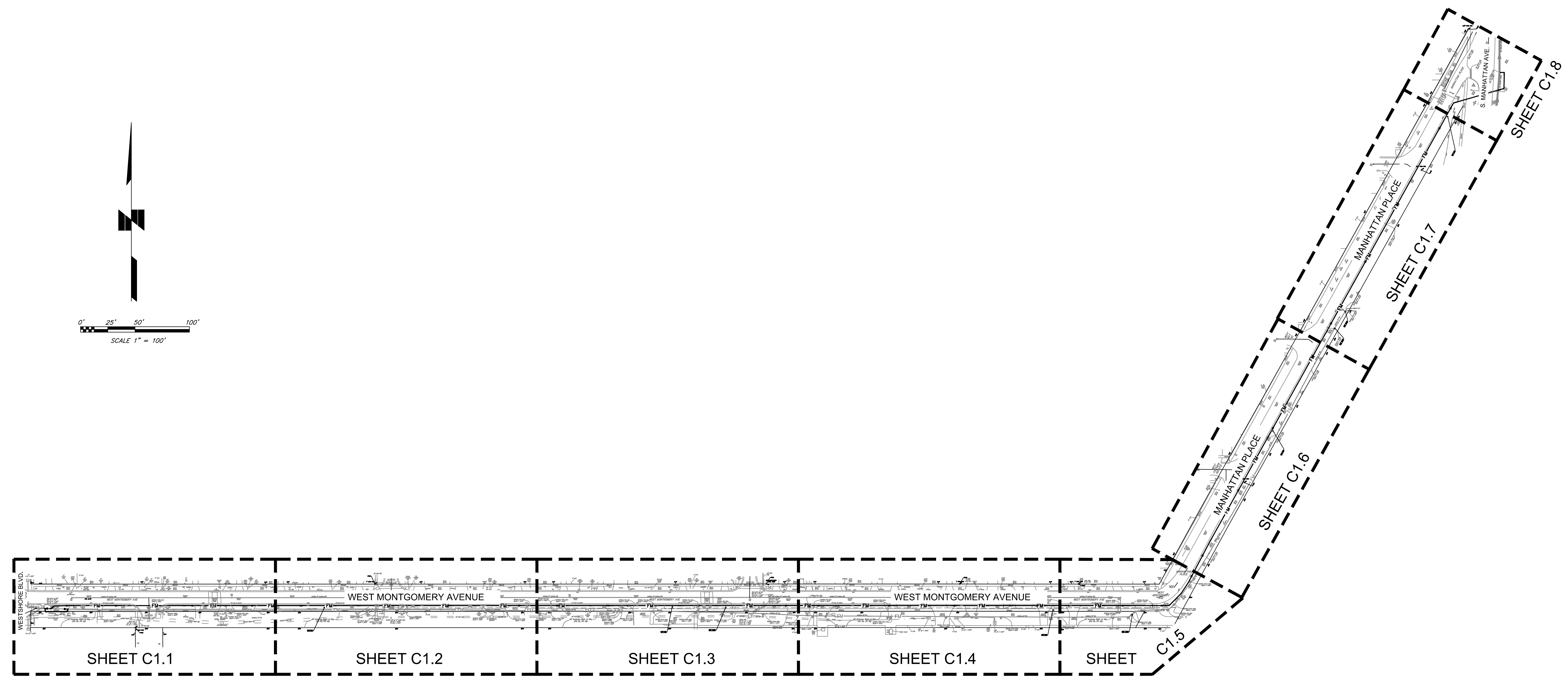
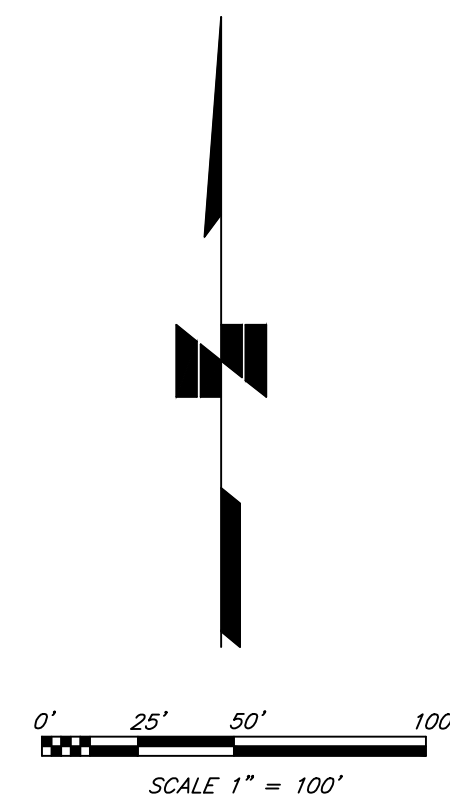
FOR

CITY OF TAMPA
 WASTEWATER DEPARTMENT
 2545 GUY N VERGER BLVD.
 TAMPA, FLORIDA 33605

DRAWN BY: AS DATE 03/30/18
 DESIGN BY: CVL DATE 09/05/18
 CHECKED BY: LEM DATE 09/05/18
 SCALE: N/A

LAWRENCE E. MILLS
 P.E. NO. 22324 - P.L.S. NO. 3141
 E.B. NO. 3860 - L.S. NO. 3868
 STATE OF FLORIDA

PROJECT	SHEET
PRESCOTT PUMP STATION FORCEMAIN	C0.0
COVER SHEET	JOB NO. 18-003



OVERALL PROJECT AREA
Scale: 1" = 100'

100% CONSTRUCTION DRAWINGS – 10/11/18

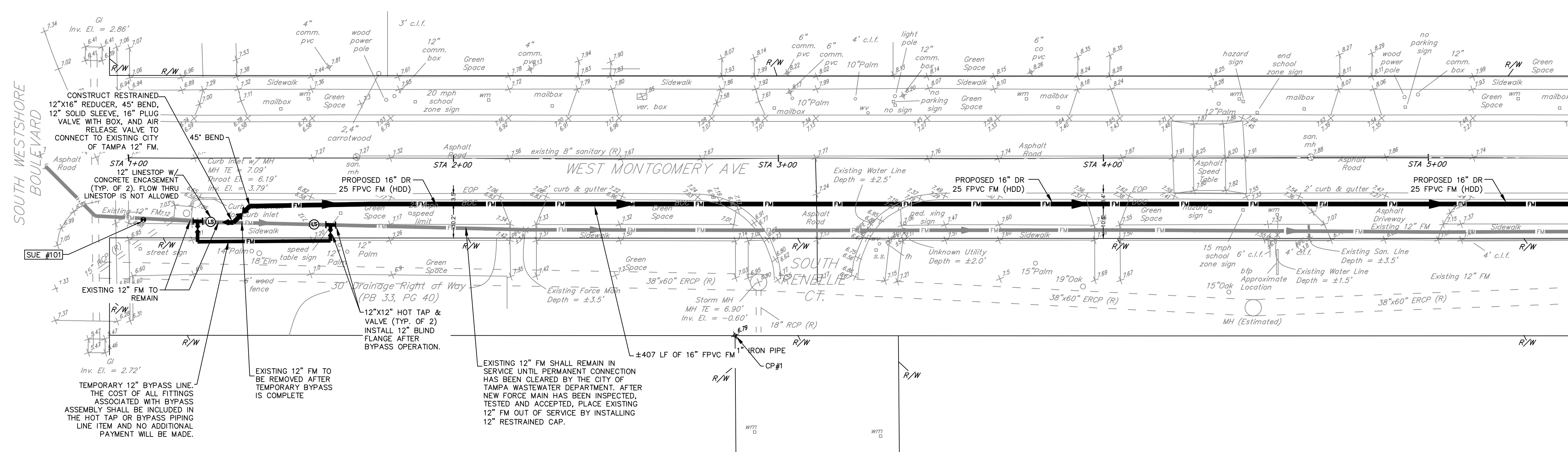
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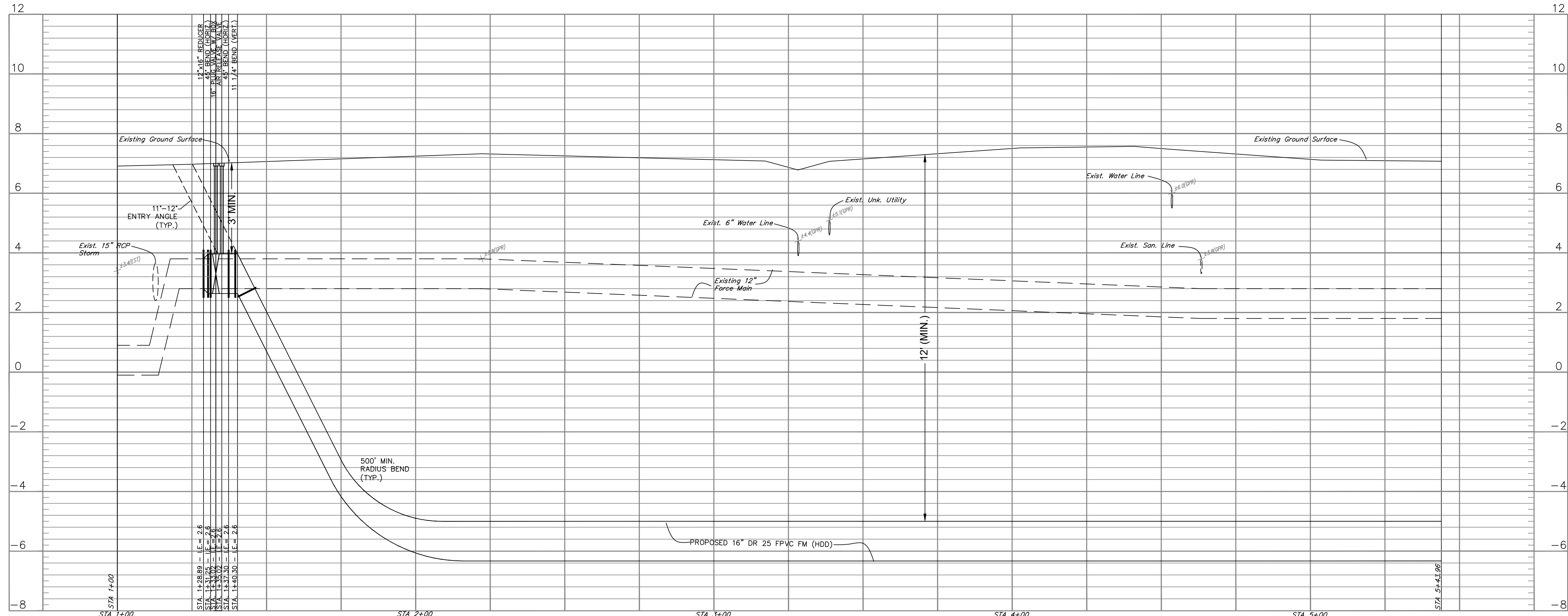
FOR
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2545 GUY N VERGER BLVD.
TAMPA, FLORIDA 33605

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LAWRENCE E. MILLS
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STATE OF FLORIDA

PROJECT	SHEET
PRESCOTT PUMP STATION FORCEMAIN	C0.1
OVERALL PROJECT AREA	JOB NO. 18-003



PLAN VIEW
Horizontal Scale: 1" = 20'



PROFILE VIEW
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'

- LEGEND (As Applicable)
- BOC Back of Curb
 - BFP Backflow Preventer
 - (C) Calculated
 - CLF Chain Link Fence
 - CMP Corrugated Metal Pipe
 - CO Clean Out
 - Conc. Concrete
 - CP Control Point
 - EOP Edge of Pavement
 - FDC Fire Department Connector
 - FF Finished Floor Elevation
 - FL Flow Line
 - GI Grate Inlet
 - GW Guy Wire
 - HYC Handicapped Parking Sign
 - HP High Point
 - ID Identification
 - IE Invert Elevation
 - FCR Found Capped Iron Rod
 - FCM Found Concrete Monument
 - FH Fire Hydrant
 - FIR Found Iron Rod
 - LB Licensed Business
 - L.P. Light Pole
 - (M) Measured data
 - MEC Match Existing Curb
 - MEP Match Existing Pavement
 - MES Mitered End Section
 - MH Manhole
 - O/A Overcut
 - OR Official Records
 - OHW Overhead Wires
 - (P) Plot data
 - PK&D Ped. xing Pedestrian Crossing
 - PK&D Parker Kalam Nail & Disk (as noted)
 - PVC Polyvinyl chloride
 - (R) Recorded
 - RCP Reinforced Concrete Pipe
 - R/W Right of Way
 - San. Sanitary
 - SCD Sanitary CD
 - SF Square Feet
 - SIR Set 5/8" IR with Cap: LB3868
 - SPT Standard Penetration Test
 - S/W Sidewalk
 - TM Temporary Bench Mark
 - TC Top of Curb
 - TE Top Elevation
 - T.O.B. Top of Bank
 - (Typ) Typical
 - OHW Overhead Wires
 - OHW Overhead
 - UEC Underground Electric
 - UP Utility Pole
 - Ver. Verizon
 - WM Water Meter
 - WV Water Valve

- NOTES:
- EXISTING UTILITIES ARE SHOWN FROM THE BEST INFORMATION AVAILABLE. SOME AREAS HAVE BEEN LOCATED BY VACUUM EXCAVATION AND PROVIDED ON THE PLANS. PRIOR TO DIRECTIONAL DRILLING, CONTRACTOR SHALL EXCAVATE AND VERIFY EXISTING HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES VIA VACUUM OF CONVENTIONAL EXCAVATION.
 - CONTRACTOR SHALL LIMIT CURVATURE IN ANY DIRECTION TO REDUCE FORCE ON THE PIPE DURING PULL-BACK. THE BEND RADIUS FOR FUSIBLE POLYVINYL CHLORIDE (PVC) PIPE SHALL NOT BE LESS THAN 500' FOR 16-INCH PIPE.

REVISIONS					
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2545 GUY N VERGER BLVD.
TAMPA, FLORIDA 33605

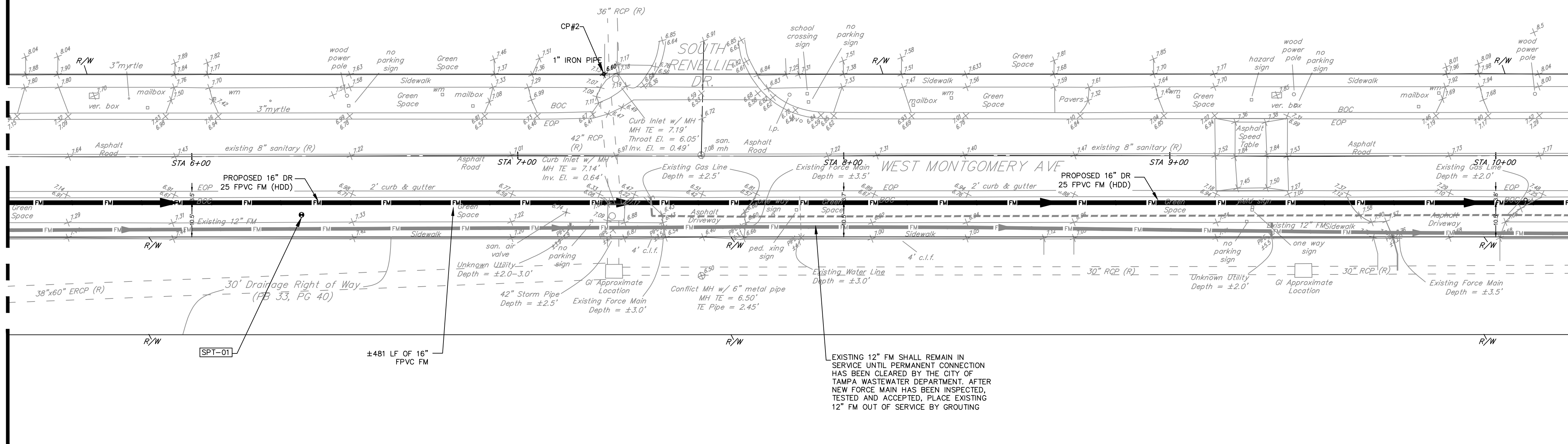
DRWN BY: AS DATE 03/30/18
DSGN BY: CVL DATE 09/05/18
CHKD BY: LEM DATE 09/05/18
SCALE: 1" = 20'

LAWRENCE E. MILLS
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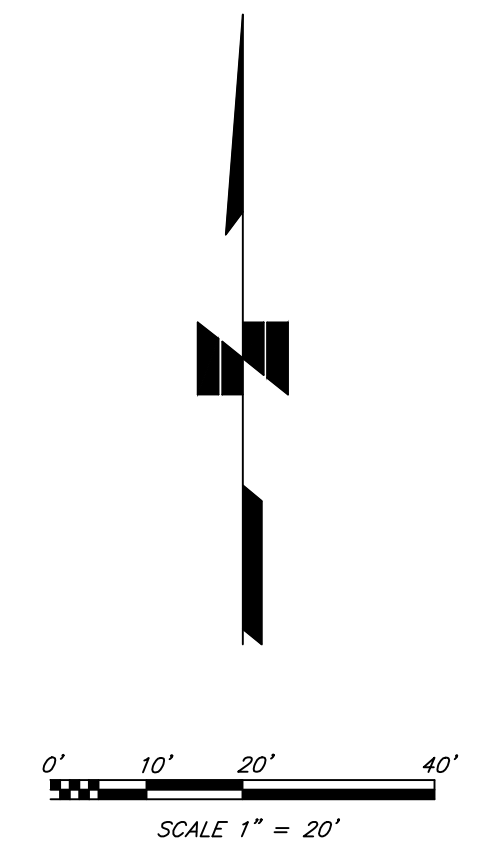
100% CONSTRUCTION DRAWINGS - 10/11/18
PROJECT: PRESCOTT PUMP STATION FORCEMAIN
SHEET: C1.1
JOB NO.: 18-003
STA. 1+00 TO 5+43.96

MATCH LINE - SEE SHEET C1.1

MATCH LINE - SEE SHEET C1.3

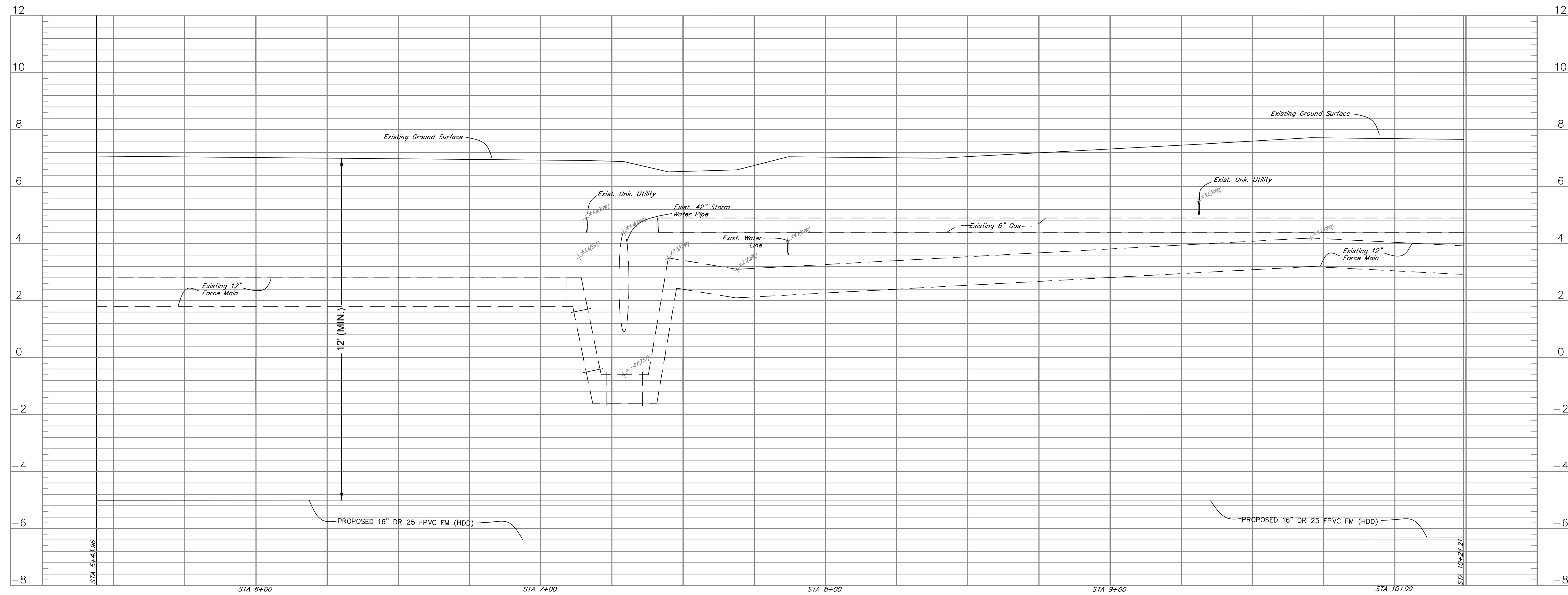


PLAN VIEW
Horizontal Scale: 1" = 20'



- LEGEND (As Applicable)**
- BOC Back of Curb
 - BFP Backflow Preventer
 - (C) Calculated
 - CLF Chain Link Fence
 - CMF Corrugated Metal Pipe
 - CO Clean Out
 - Conc. Concrete
 - CP Control Point
 - EOP Edge of Pavement
 - FDC Fire Department Connector
 - FF Finished Floor Elevation
 - FL Flow Line
 - GI Gate Inlet
 - GW Guy Wire
 - H/C Handicapped Parking Sign
 - HP High Point
 - ID Identification
 - IE Invert Elevation
 - FOR Found Capped Iron Rod
 - FCM Found Concrete Monument
 - FH Fire Hydrant
 - FR Found Iron Rod
 - LB Licensed Business
 - L.P. Light Pole
 - (M) Measured data
 - MEC Match Existing Curb
 - MEP Match Existing Pavement
 - MES Mitered End Section
 - MH Manhole
 - O/A Overall
 - OR Official Records
 - OHW Overhead Wires
 - (P) Plot data
 - Ped. xing Pedestrian Crossing
 - PK&D Parker-Kalon Nail & Disk (as noted)
 - PVC Polyvinyl chloride
 - (R) Recorded
 - RCP Reinforced Concrete Pipe
 - R/W Right of Way
 - San. Sanitary
 - SCO Sanitary CO
 - SF Square Feet
 - SIR Set 5/8" IR with Cap: LB3868
 - SPT Standard Penetration Test
 - S/W Sidewalk
 - TBM Temporary Bench Mark
 - TC Top of Curb
 - TE Top Elevation
 - T.O.B. (Top) Top of Bank
 - (Typ) Typical
 - OHW Overhead Wires
 - O/H Overhang
 - UGE Underground Electric
 - UP Utility Pole
 - Ver. Verizon
 - WM Water Meter
 - WV Water Valve

- NOTES:**
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PROFILE VIEW
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'

REVISIONS

BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION

MILLS and ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
3242 HENDERSON BOULEVARD • SUITE 300
TAMPA, FLORIDA 33609-3056
TELEPHONE: (813) 876-5869

FOR
CITY OF TAMPA
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2545 GUY N VERGER BLVD.
TAMPA, FLORIDA 33605

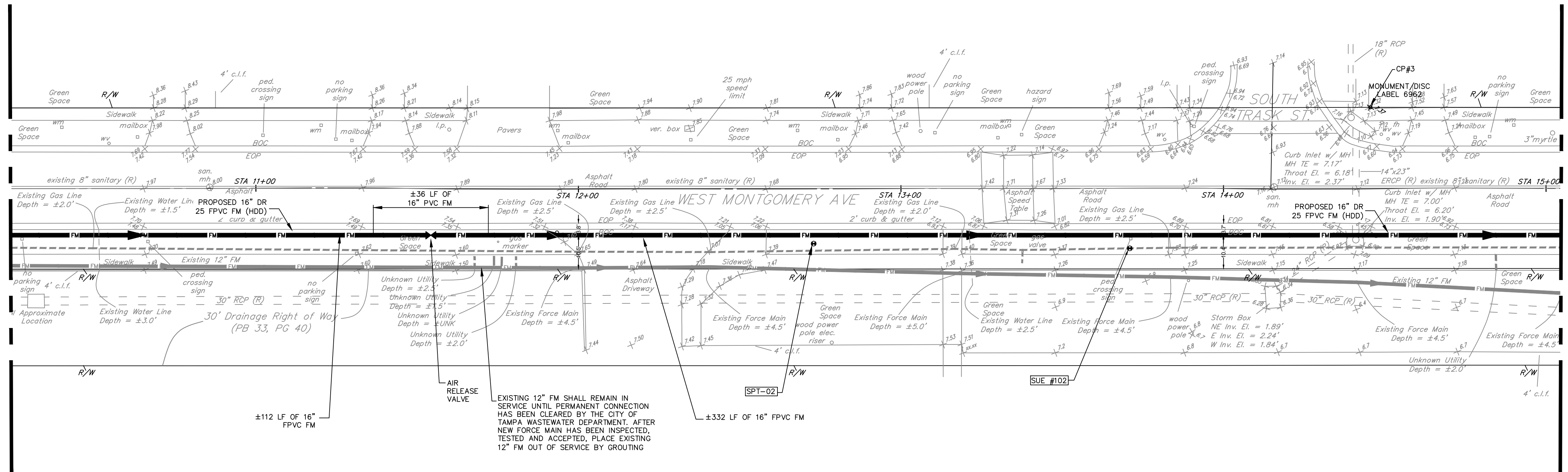
DRWN BY: AS DATE 03/30/18
DSGN BY: CVL DATE 09/05/18
CHKD BY: LEM DATE 09/05/18
SCALE: 1" = 20'

LAWRENCE E. MILLS
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E.B. NO. 3860 - L.B. NO. 3868
STATE OF FLORIDA

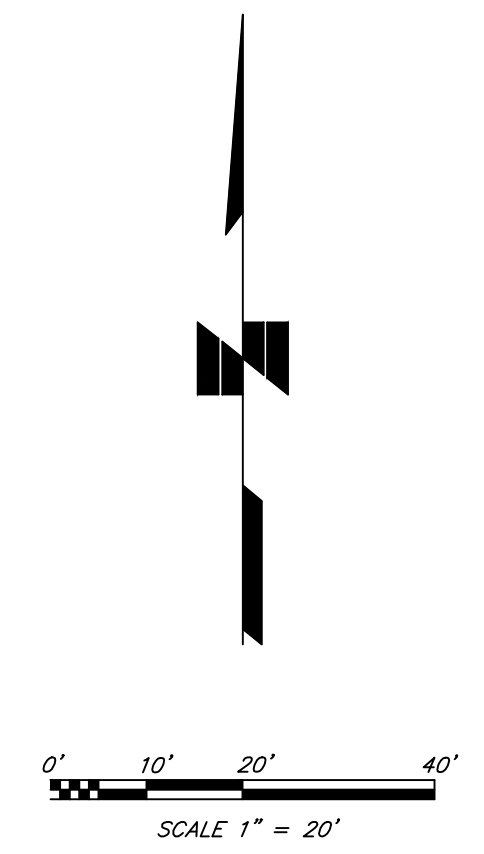
100% CONSTRUCTION DRAWINGS - 10/11/18
PROJECT: PRESCOTT PUMP STATION FORCEMAIN
SHEET: C1.2
JOB NO.: 18-003
STA. 5+43.96 TO 10+24.21

MATCH LINE - SEE SHEET C1.2

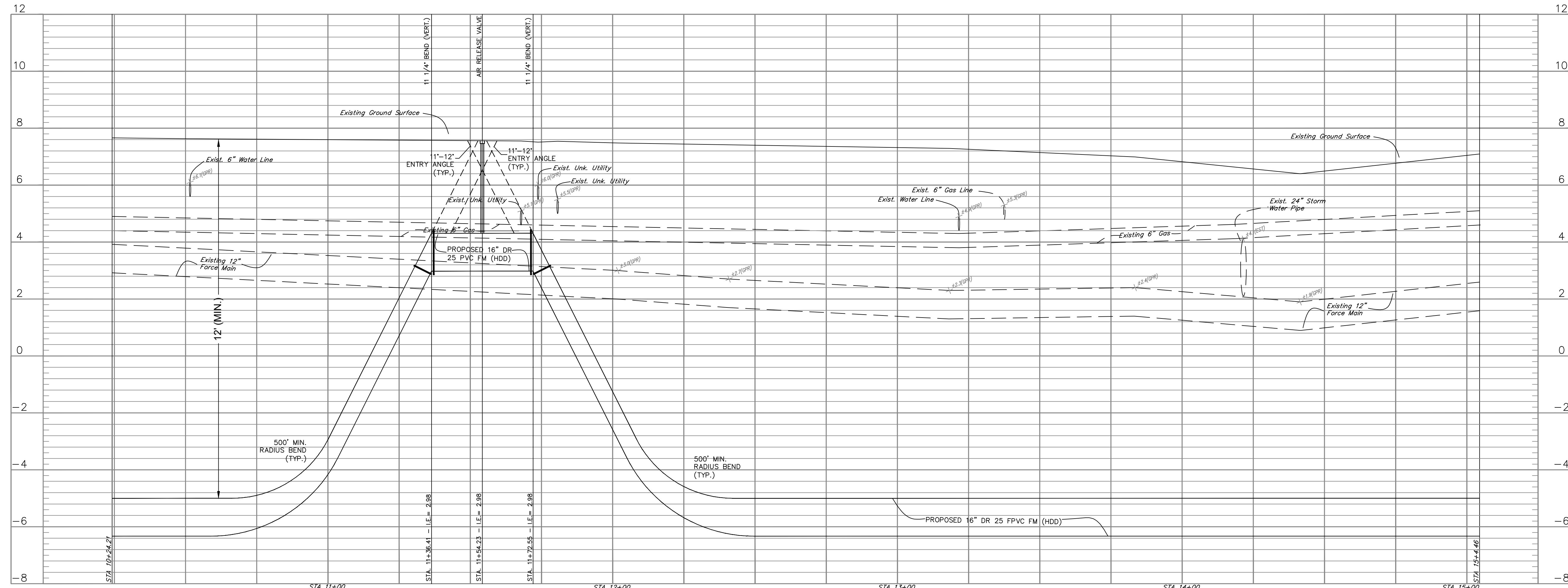
MATCH LINE - SEE SHEET C1.4



PLAN VIEW
Horizontal Scale: 1" = 20'



- LEGEND (As Applicable)
- BOC Back of Curb
 - BFP Backflow Preventer
 - CL Chain Link Fence
 - CLF Chain Link Fence
 - OMP Corrugated Metal Pipe
 - CO Clean Out
 - Conc. Concrete
 - CP Control Point
 - EOP Edge of Pavement
 - FDC Fire Department Connector
 - FF Finished Floor Elevation
 - FL Flow Line
 - GI Grate Inlet
 - GW Guy Wire
 - H/C Handicapped Parking Sign
 - HP High Point
 - ID Identification
 - IE Invert Elevation
 - FICR Found Capped Iron Rod
 - FCM Found Concrete Monument
 - FH Fire Hydrant
 - FIR Found Iron Rod
 - LB Licensed Business
 - L.P. Light Pole
 - (M) Measured data
 - MEC Match Existing Curb
 - MEP Match Existing Pavement
 - MES Mitered End Section
 - MH Manhole
 - O/A Overall
 - OR Official Records
 - OHV Overhead Wires
 - (P) Plat data
 - Ped. xing Pedestrian Crossing
 - PK&D Parker Kalon Nail & Disk (as noted)
 - PVC Polyvinyl chloride
 - (R) Recorded
 - RCP Reinforced Concrete Pipe
 - R/W Right of Way
 - San. Sanitary
 - San. CO Sanitary CO
 - SF Square Feet
 - SIR Set 5/8" IR with Cap. LB3868
 - SPT Standard Penetration Test
 - S/W Sidewalk
 - TBM Temporary Bench Mark
 - TO Top of Curb
 - TE Top Elevation
 - T.O.B. Top of Bank
 - (Typ) Typical
 - OHV Overhead Wires
 - UOE Underground Electric
 - UP Utility Pole
 - Ver. Vertical
 - WM Water Meter
 - WV Water Valve



PROFILE VIEW
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'

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TAMPA, FLORIDA 33609-3056
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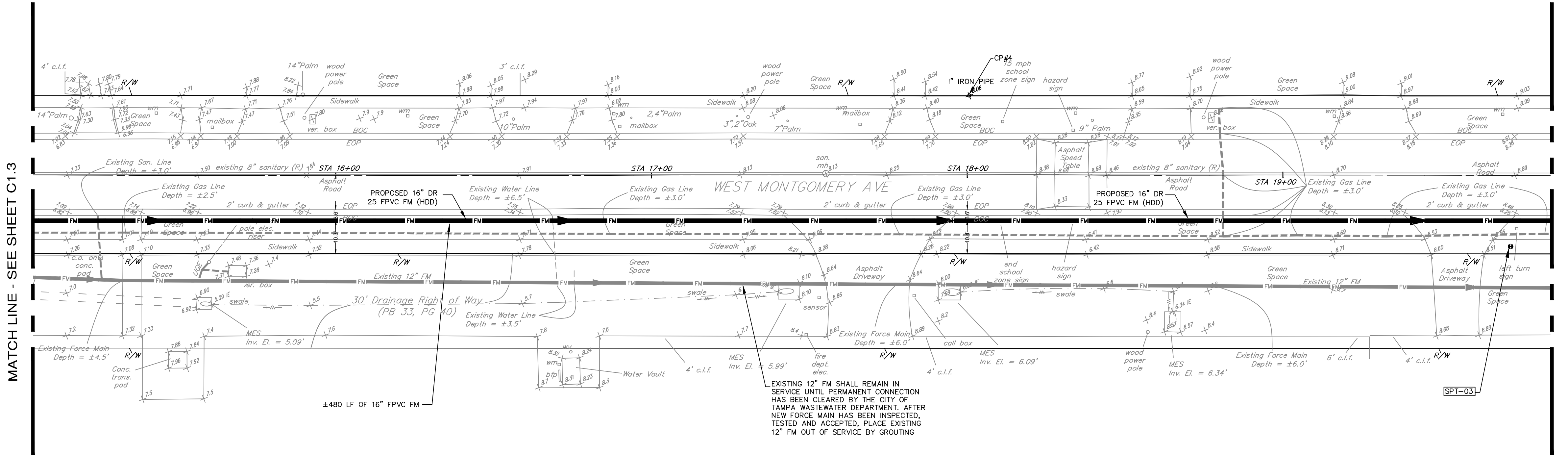
FOR
CITY OF TAMPA
WASTEWATER DEPARTMENT
2545 GUY N VERGER BLVD.
TAMPA, FLORIDA 33605

DRWN BY: AS DATE 03/30/18
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SCALE: 1" = 20'

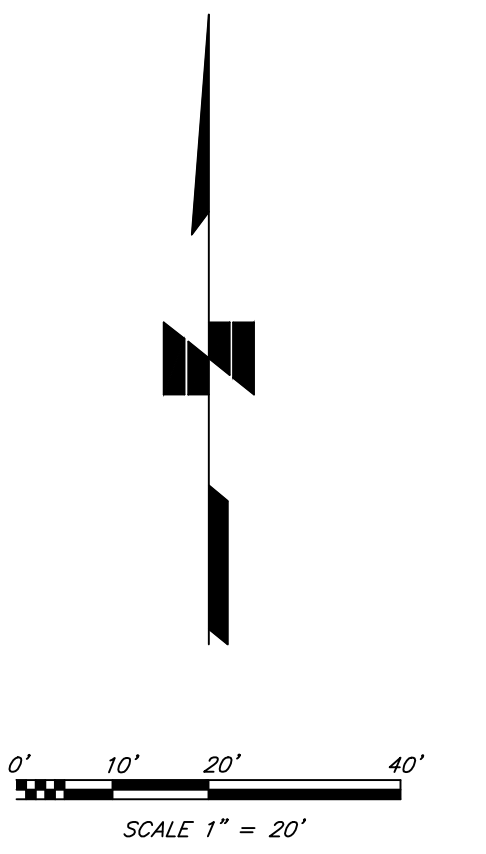
LAWRENCE E. MILLS
P.E. NO. 22324 - P.L.S. NO. 3141
E.B. NO. 3860 - L.B. NO. 3868
STATE OF FLORIDA

100% CONSTRUCTION DRAWINGS - 10/11/18
PROJECT
PRESCOTT PUMP STATION
FORCEMAIN
STA. 10+24.21 TO 15+4.46

SHEET
C1.3
JOB NO.
18-003



PLAN VIEW
Horizontal Scale: 1" = 20'

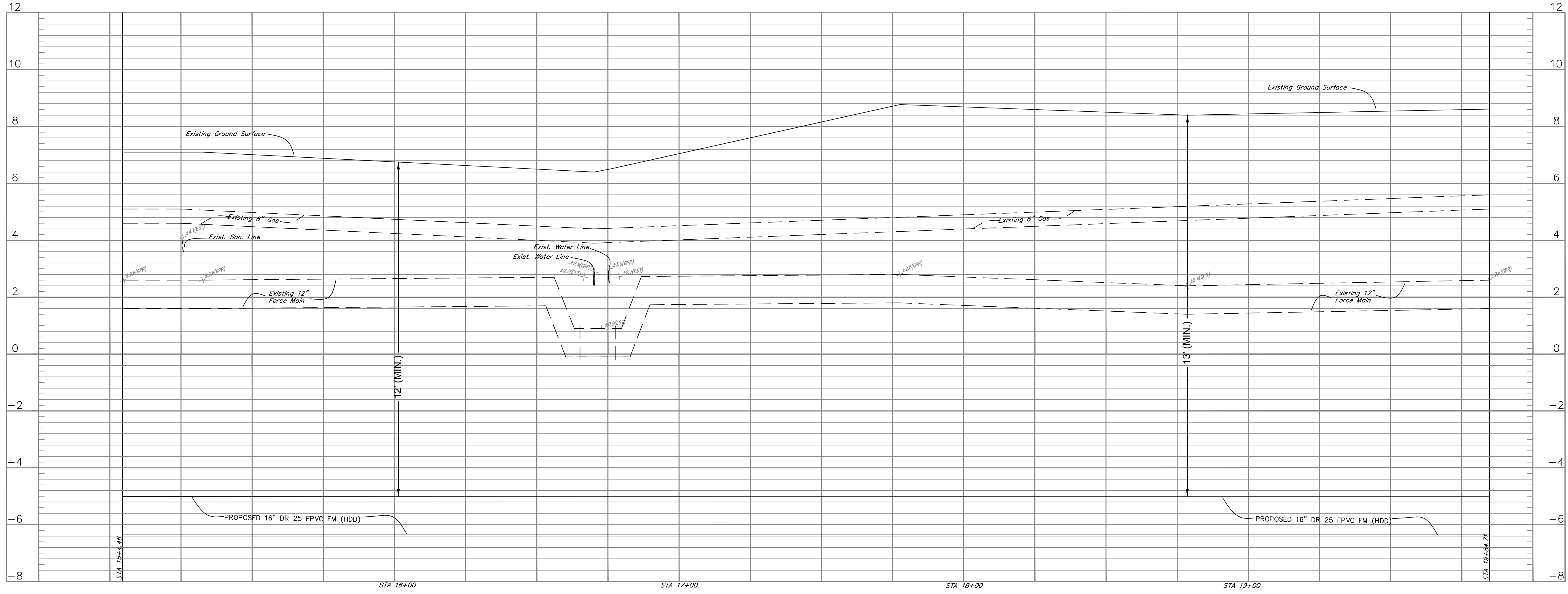


MATCH LINE - SEE SHEET C1.3

MATCH LINE - SEE SHEET C1.5

- LEGEND (As Applicable)
- BOC Back of Curb
 - BPP Backflow Preventer
 - (C) Calculated
 - CLF Chain Link Fence
 - CMP Corrugated Metal Pipe
 - CO Clean Out
 - Conc. Concrete
 - CP Control Point
 - EOP Edge of Pavement
 - FDC Fire Department Connector
 - FF Finished Floor Elevation
 - FL Flow Line
 - GI Grate Inlet
 - GW Guy Wire
 - H/C Handicapped Parking Sign
 - HP High Point
 - ID Identification
 - IE Invert Elevation
 - FCR Found Capped Iron Rod
 - FCM Found Concrete Monument
 - FH Fire Hydrant
 - FIR Found Iron Rod
 - LB Licensed Business
 - L.P. Light Pole
 - (M) Measured data
 - MES Match Existing Pavement
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 - MH Manhole
 - O/A Overall
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 - SF Square Feet
 - SIR Set 5/8" IR with Cap. LB3868
 - SPT Standard Penetration Test
 - S/W Sidewalk
 - TBM Temporary Bench Mark
 - TC Top of Curb
 - TE Top Elevation
 - (Top) Top of Bank
 - (Typ) Typical
 - OHW Overhead Wires
 - OVH Overhang
 - UGE Underground Electric
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 - WM Water Meter
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PROFILE VIEW
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'

REVISIONS					
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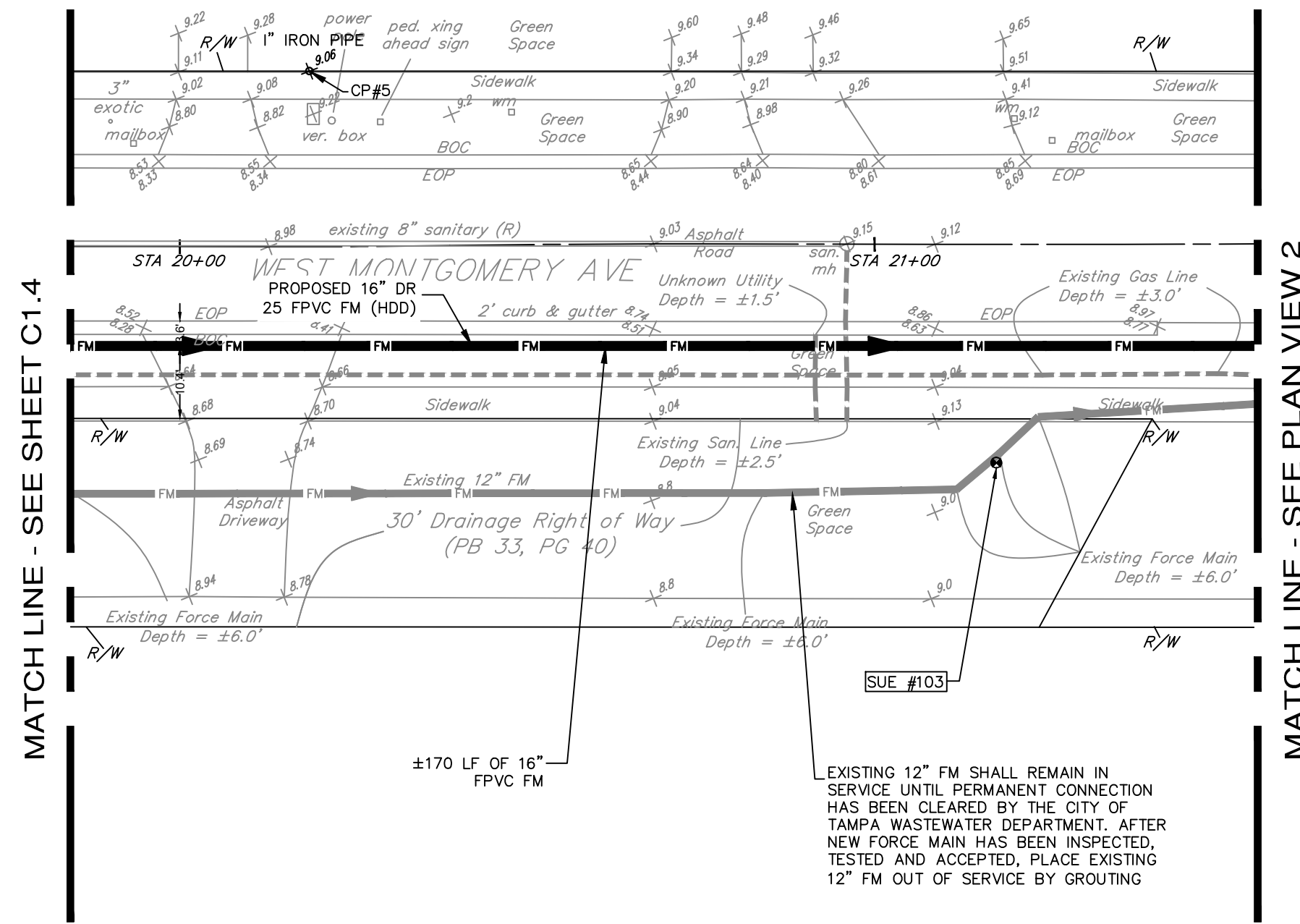
MILLS and ASSOCIATES, INC.
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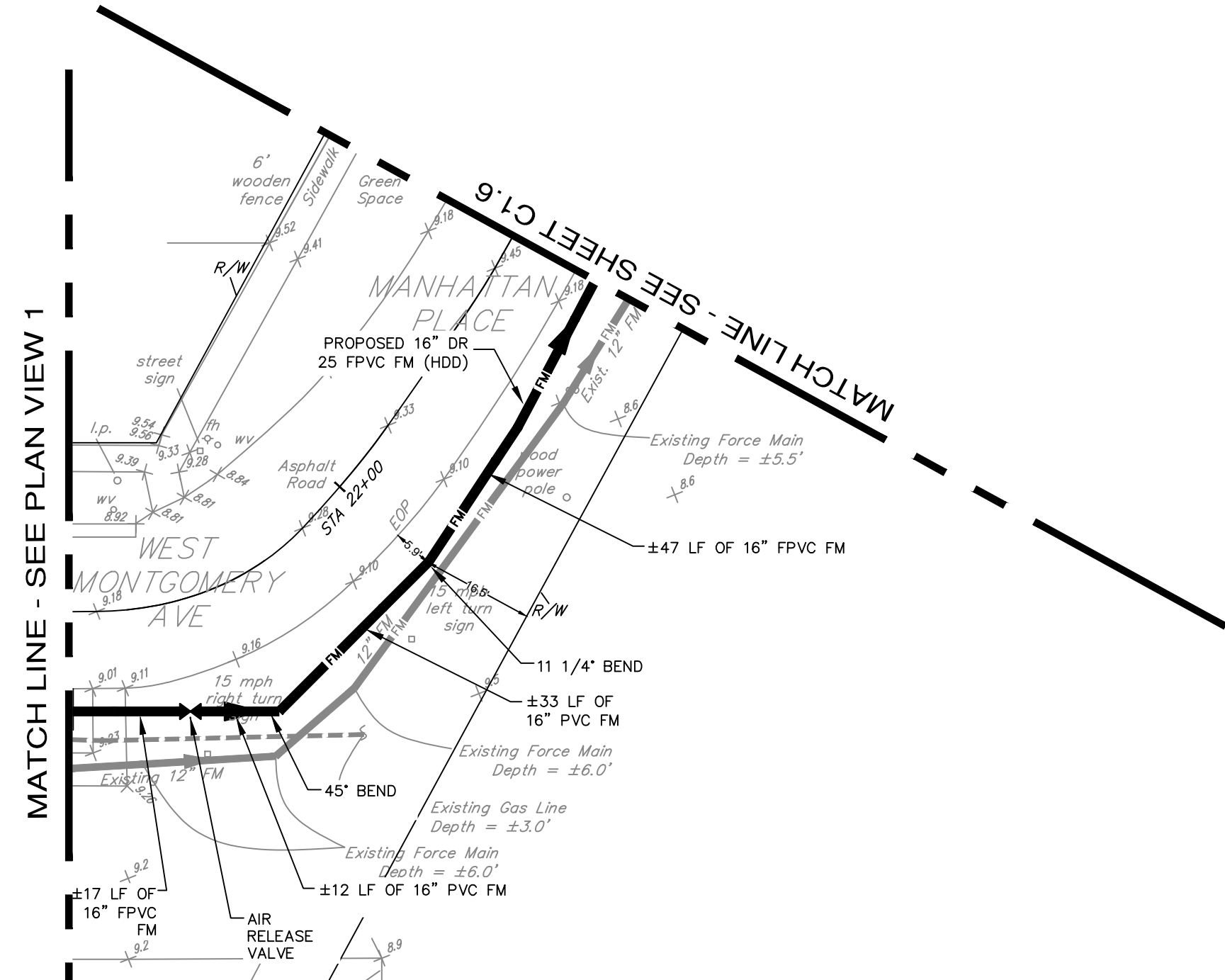
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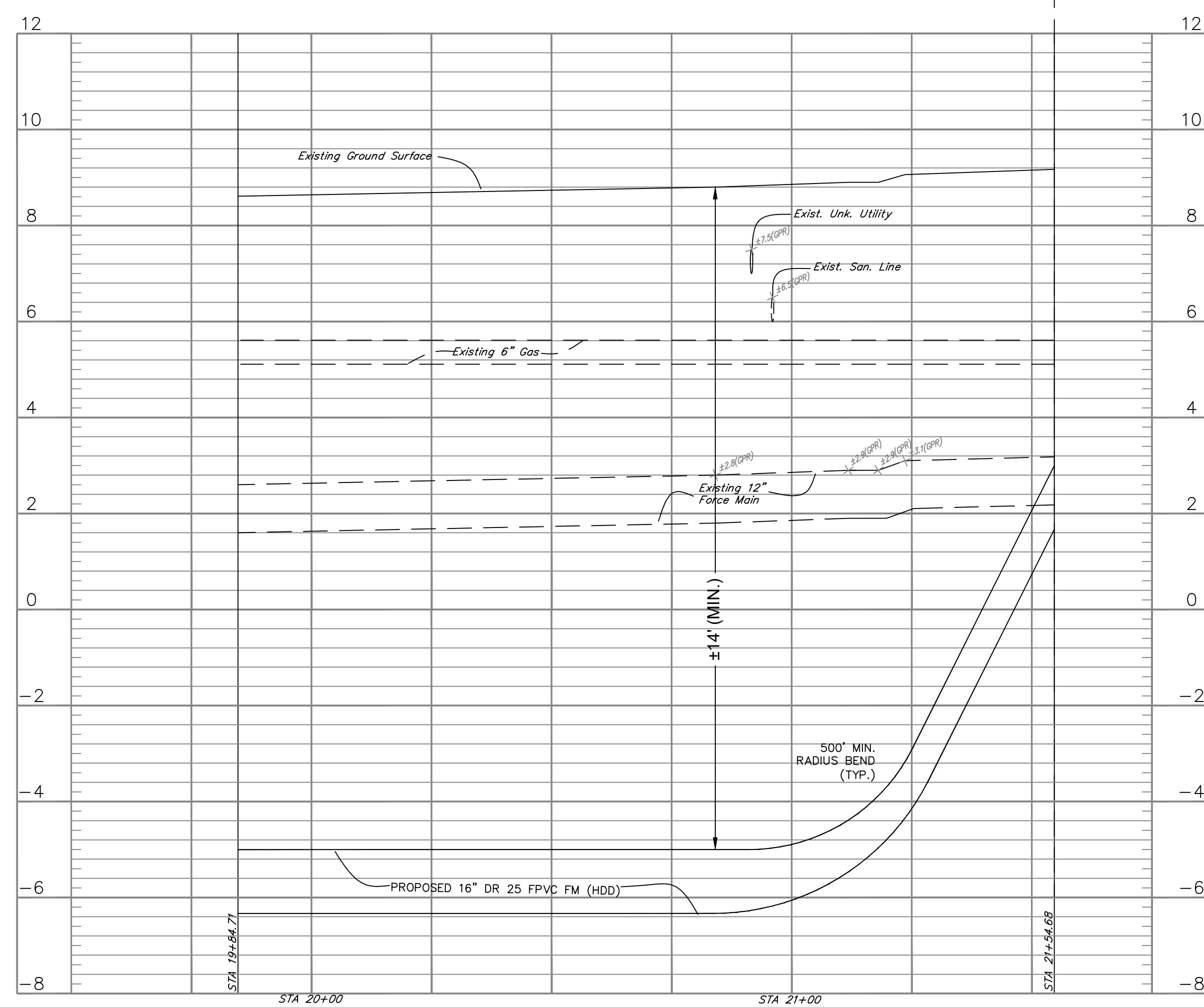
100% CONSTRUCTION DRAWINGS - 10/11/18
PROJECT: PRESCOTT PUMP STATION FORCEMAIN
SHEET: C1.4
JOB NO.: 18-003
STA. 15+4.46 TO 19+84.71



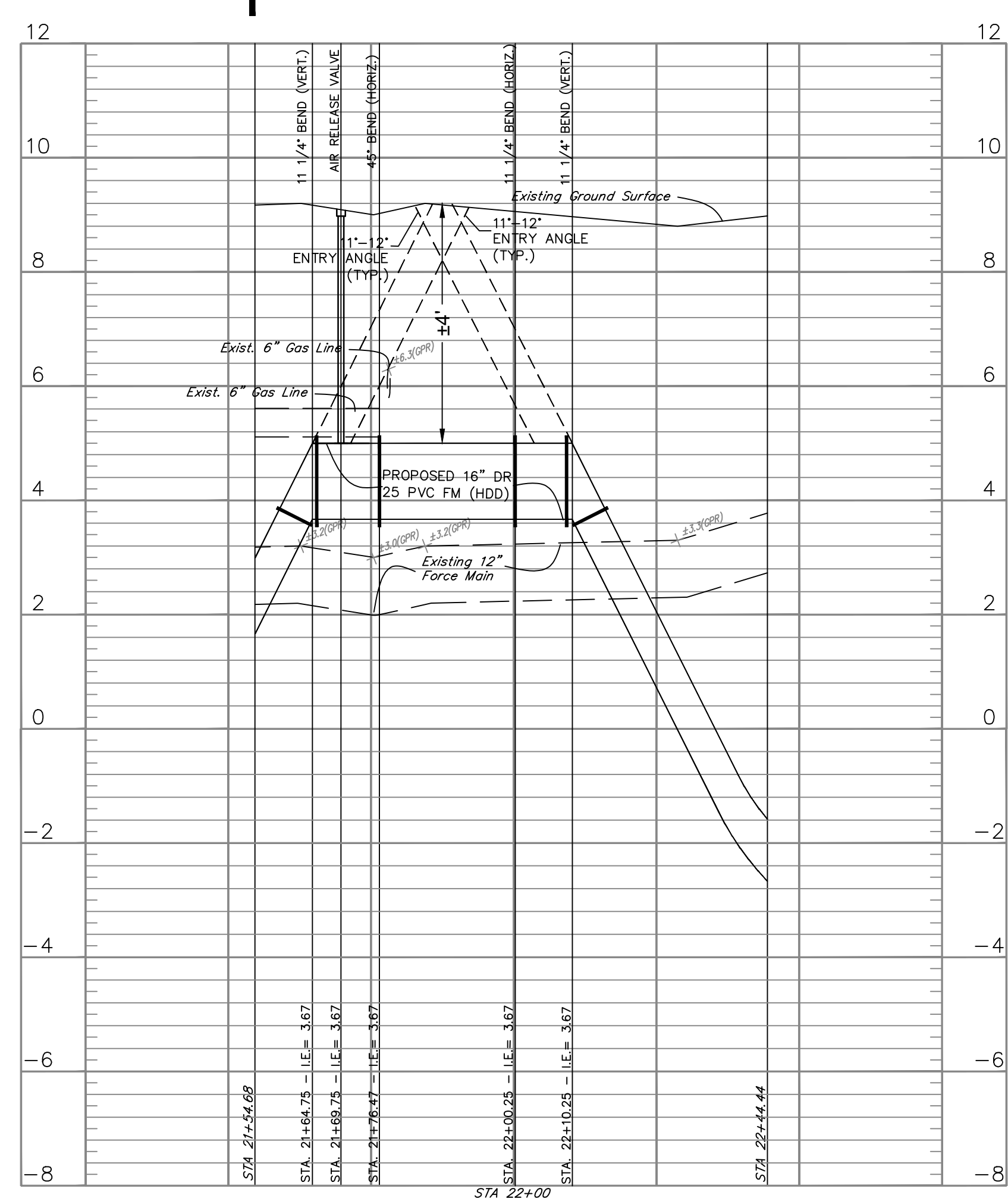
PLAN VIEW 1
Horizontal Scale: 1" = 20'



PLAN VIEW 2
Horizontal Scale: 1" = 20'



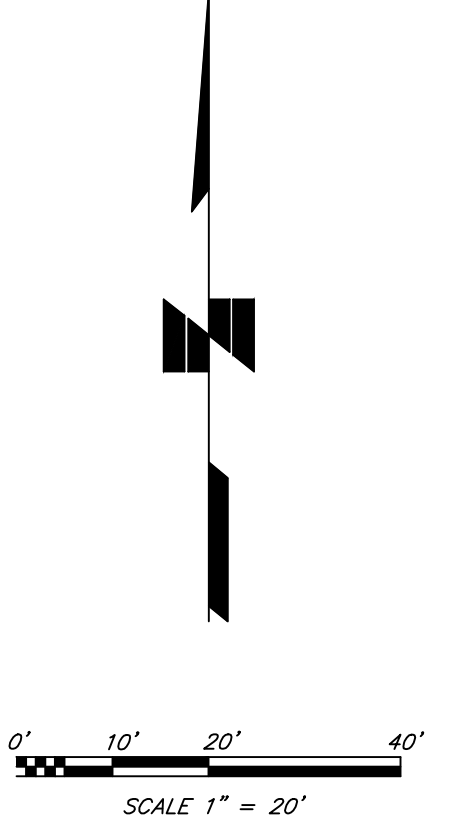
PROFILE VIEW 1
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'



PROFILE VIEW 2
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'

- LEGEND (As Applicable)**
- BOC Back of Curb
 - BFP Backflow Preventer
 - (C) Calculated
 - CLF Chain Link Fence
 - CMP Corrugated Metal Pipe
 - CO Clean Out
 - Conc. Concrete
 - CP Control Point
 - EOP Edge of Pavement
 - FDC Fire Department Connector
 - FL Flow Line
 - FF Finished Floor Elevation
 - FL Flow Line
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 - TBM Temporary Bench Mark
 - TC Top of Curb
 - TE Top Elevation
 - T.O.B. (Typ.) Top of Bank
 - Typical Typical
 - OHW Overhead Wires
 - OHW Overhang
 - USE Underground Electric
 - UP Utility Pole
 - Ver. Verizon
 - WM Water Meter
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- NOTES:**
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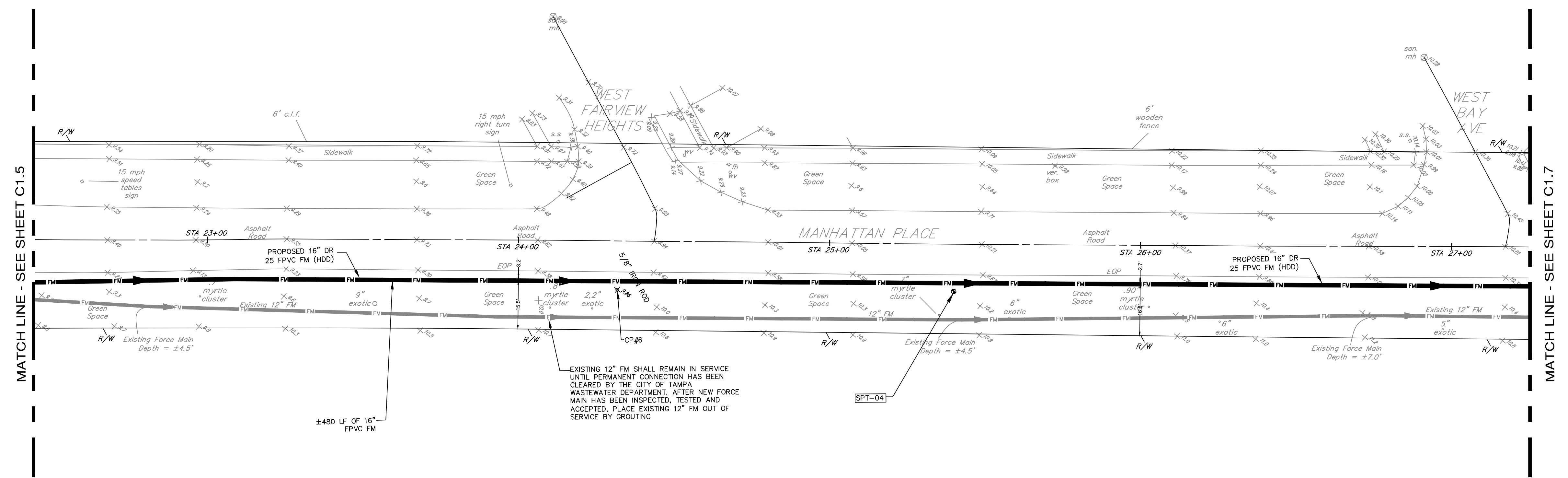
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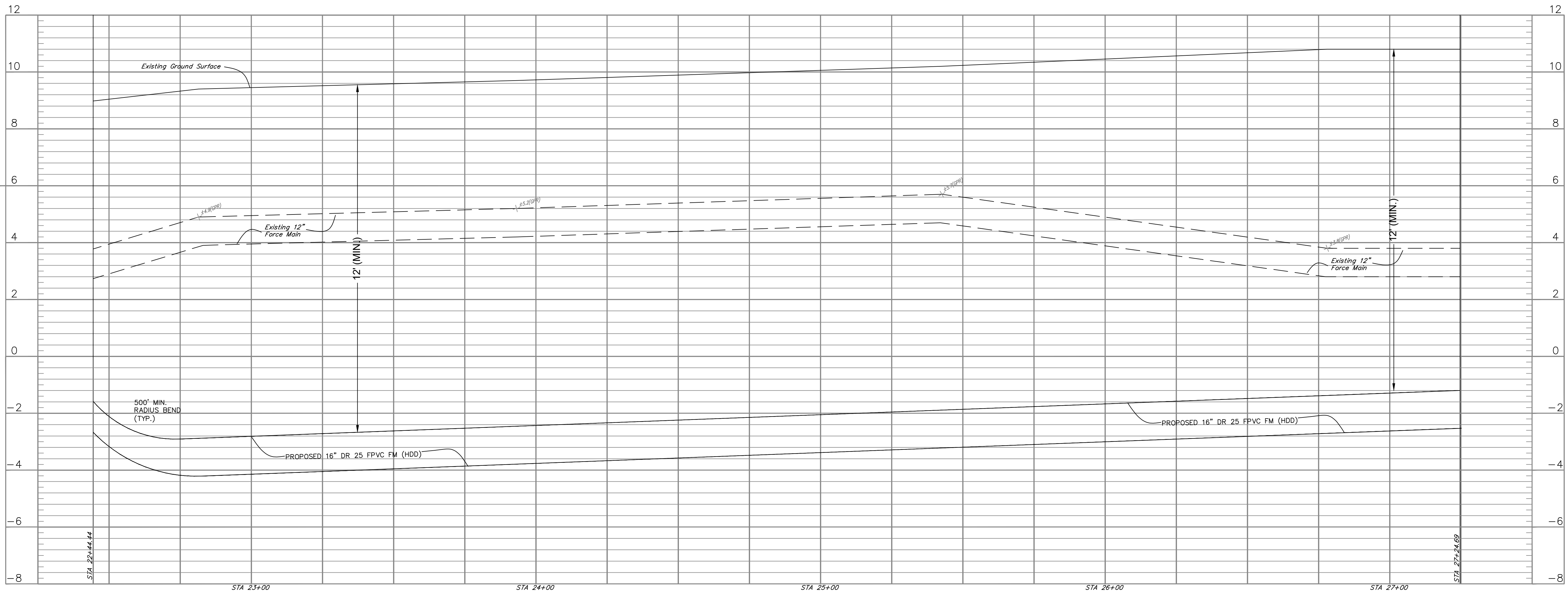
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STATE OF FLORIDA

100% CONSTRUCTION DRAWINGS - 10/11/18
PROJECT: **PRESCOTT PUMP STATION FORCEMAIN**
SHEET: **C1.5**
JOB NO.: **18-003**
STA. 19+84.71 TO 22+44.44



PLAN VIEW
Horizontal Scale: 1" = 20'



PROFILE VIEW
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'

- LEGEND (As Applicable)
- BOC Back of Curb
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 - GI Grate Inlet
 - GW Guy Wire
 - H/C Handicapped Parking Sign
 - HP High Point
 - ID Identification
 - IE Invert Elevation
 - FOIR Found Capped Iron Rod
 - FCM Found Concrete Monument
 - FH Fire Hydrant
 - FIIR Found Iron Rod
 - LB Licensed Business
 - L.P. Light Pole
 - (M) Measured data
 - MEC Match Existing Curb
 - MEP Match Existing Pavement
 - MES Mitered End Section
 - MH Manhole
 - O/A Overall
 - OR Official Records
 - OHW Overhead Wires
 - (P) Plot data
 - Ped. v. Ped. Crossing
 - PK&D Parker Kalon Nail & Disk (as noted)
 - PVC Polyvinyl chloride
 - (R) Recorded
 - RCP Reinforced Concrete Pipe
 - R/W Right of Way
 - San. Sanitary
 - San. CD Sanitary CD
 - SCO Square Feet
 - SF Square Feet
 - SIR Set 5/8" IR with Cap: LB3868
 - SPT Standard Penetration Test
 - S/W Sidewalk
 - IDM Temporary Bench Mark
 - TC Top of Curb
 - TE Top Elevation
 - T.O.B. Top of Bank
 - (Typ) Typical
 - OHW Overhead Wires
 - OHW Overhang
 - UGE Underground Electric
 - UP Utility Pole
 - Ver. Verizon
 - WM Water Meter
 - WV Water Valve

- NOTES:
- EXISTING UTILITIES ARE SHOWN FROM THE BEST INFORMATION AVAILABLE. SOME AREAS HAVE BEEN LOCATED BY VACUUM EXCAVATION AND PROVIDED ON THE PLANS. PRIOR TO DIRECTIONAL DRILLING, CONTRACTOR SHALL EXCAVATE AND VERIFY EXISTING HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES VIA VACUUM OF CONVENTIONAL EXCAVATION.
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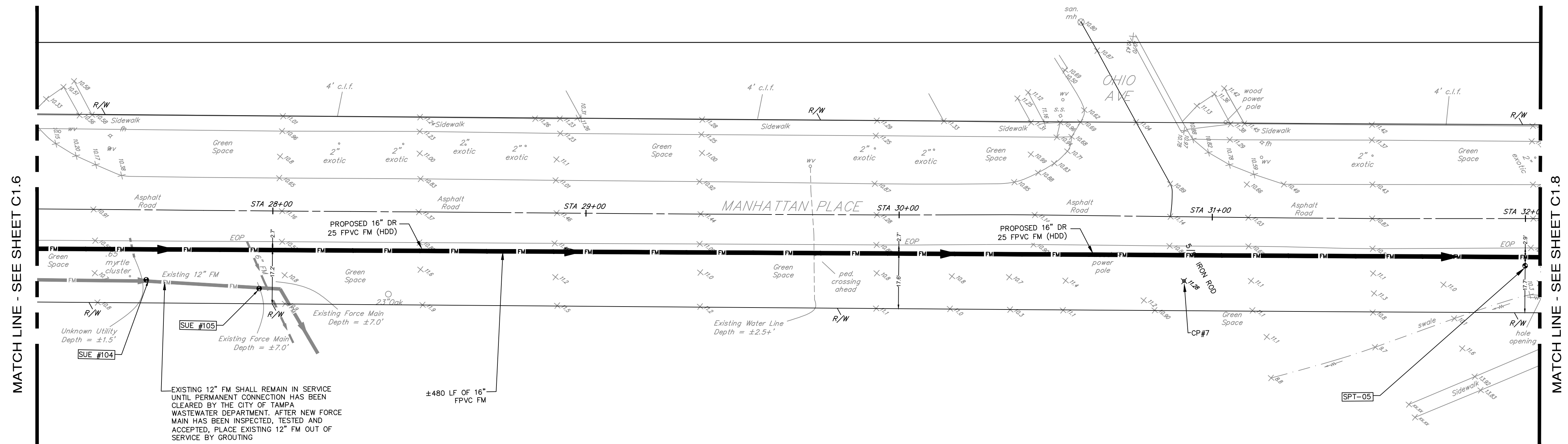
REVISIONS					
BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION

MILLS and ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
3242 HENDERSON BOULEVARD • SUITE 300
TAMPA, FLORIDA 33609-3056
TELEPHONE: (813) 876-5869

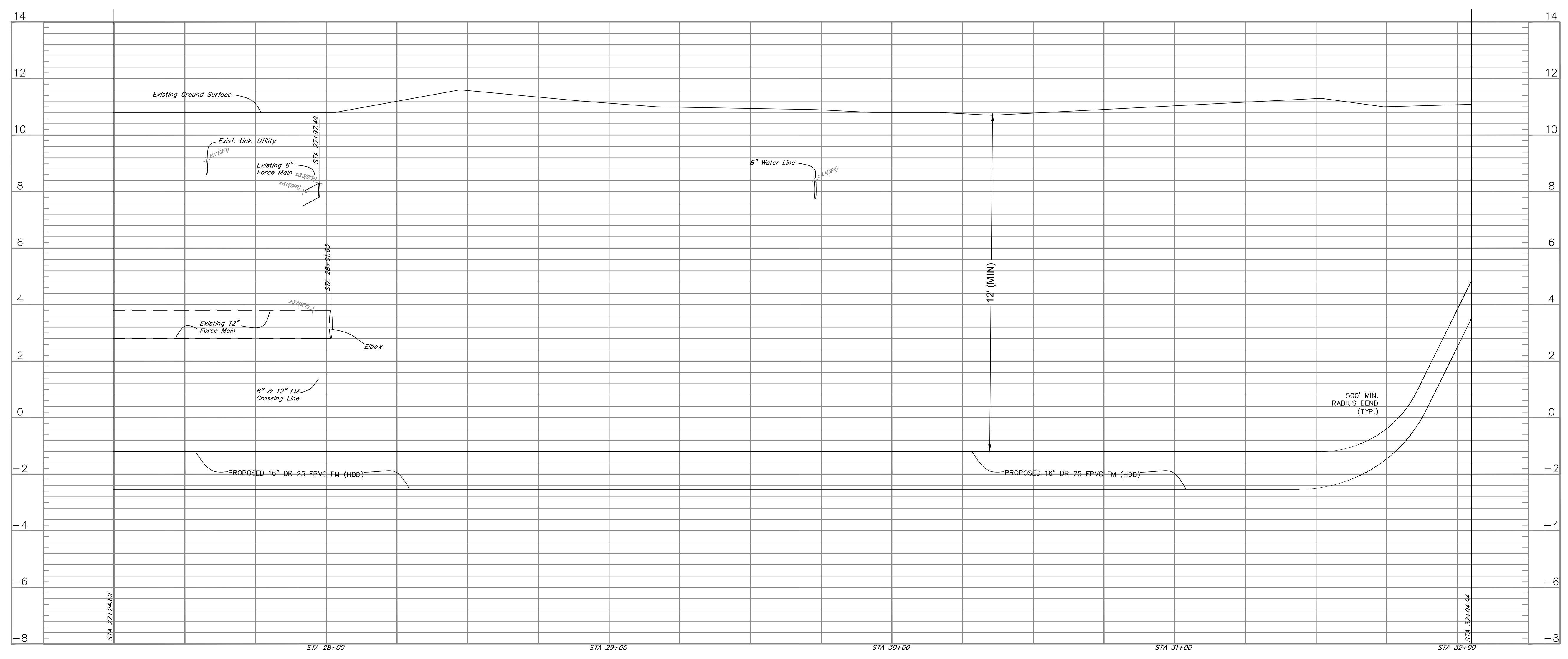
FOR
CITY OF TAMPA
WASTEWATER DEPARTMENT
2545 GUY N VERGER BLVD.
TAMPA, FLORIDA 33605

DRWN BY: AS DATE 03/30/18
DSGN BY: CVL DATE 09/05/18
CHKD BY: LEM DATE 09/05/18
SCALE: 1" = 20'
LAWRENCE E. MILLS
P.E. NO. 22324 - P.L.S. NO. 3141
E.B. NO. 3860 - L.B. NO. 3868
STATE OF FLORIDA

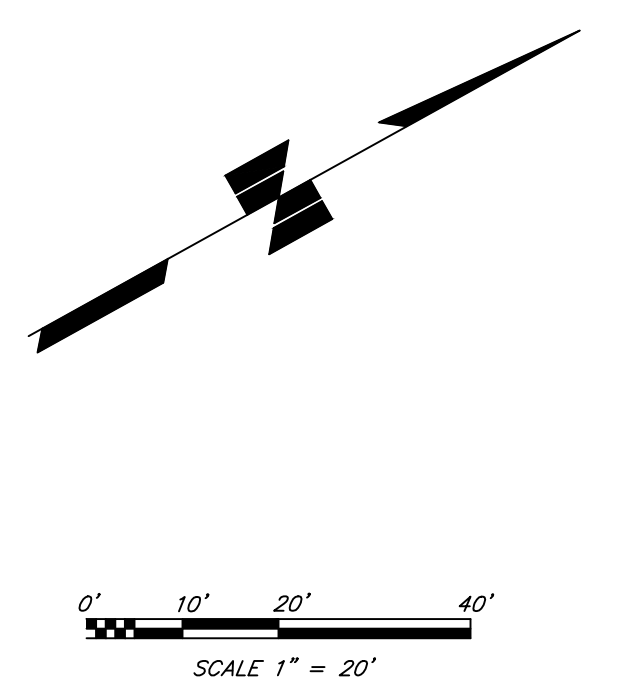
100% CONSTRUCTION DRAWINGS - 10/11/18
PROJECT
PRESCOTT PUMP STATION
FORCEMAIN
SHEET
C1.6
JOB NO.
18-003
STA. 22+44.44 TO 27+24.69



PLAN VIEW
Horizontal Scale: 1" = 20'



PROFILE VIEW
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'



- LEGEND (As Applicable)
- B/C Back of Curb
 - B/P Backflow Preventer
 - (C) Calculated
 - CL Chain Link Fence
 - CMP Corrugated Metal Pipe
 - CO Clean Out
 - Conc. Concrete
 - CP Control Point
 - EOP Edge of Pavement
 - FDC Fire Department Connector
 - FF Finished Floor Elevation
 - FL Flow Line
 - GI Grate Inlet
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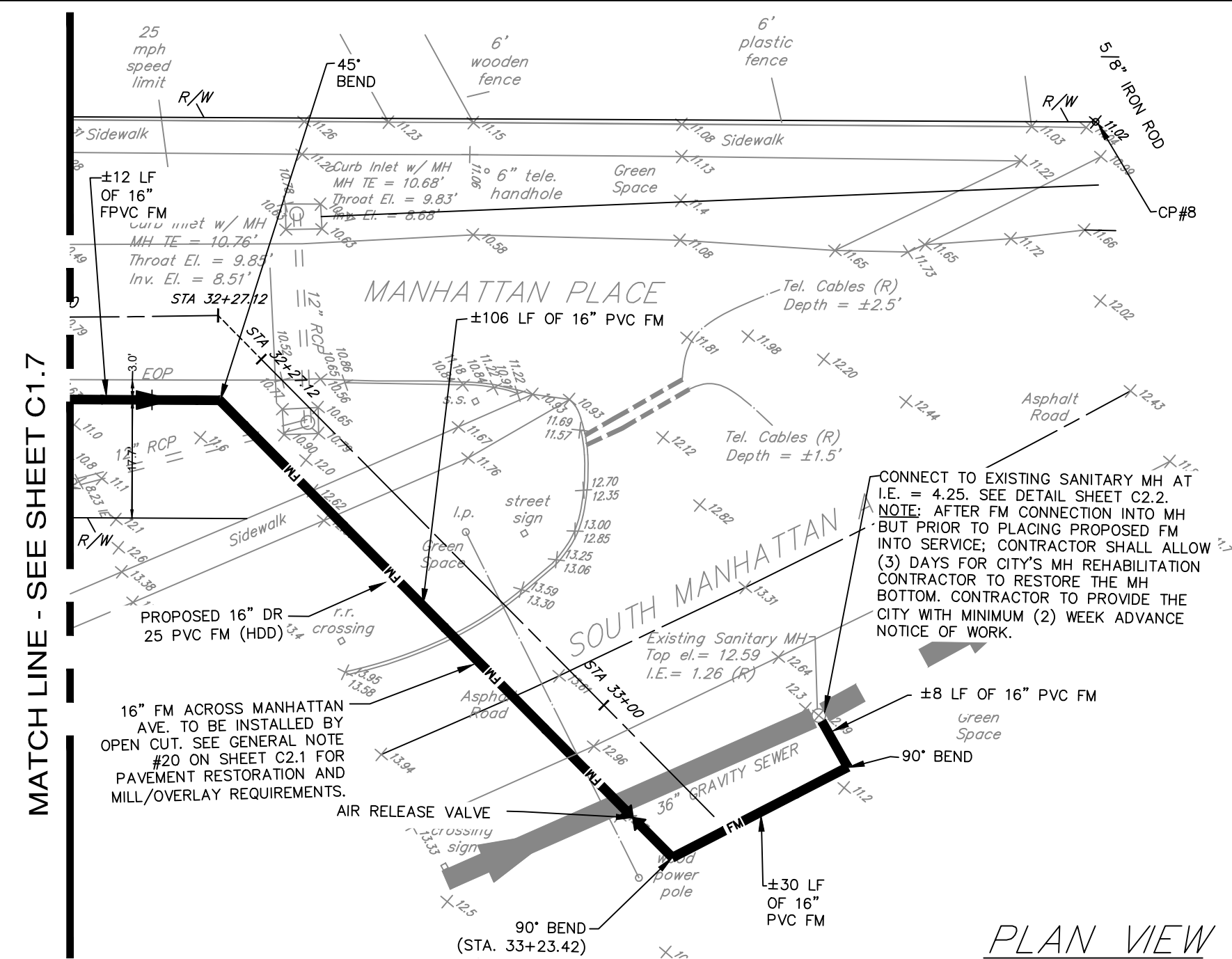
MILLS and ASSOCIATES, INC.
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3242 HENDERSON BOULEVARD • SUITE 300
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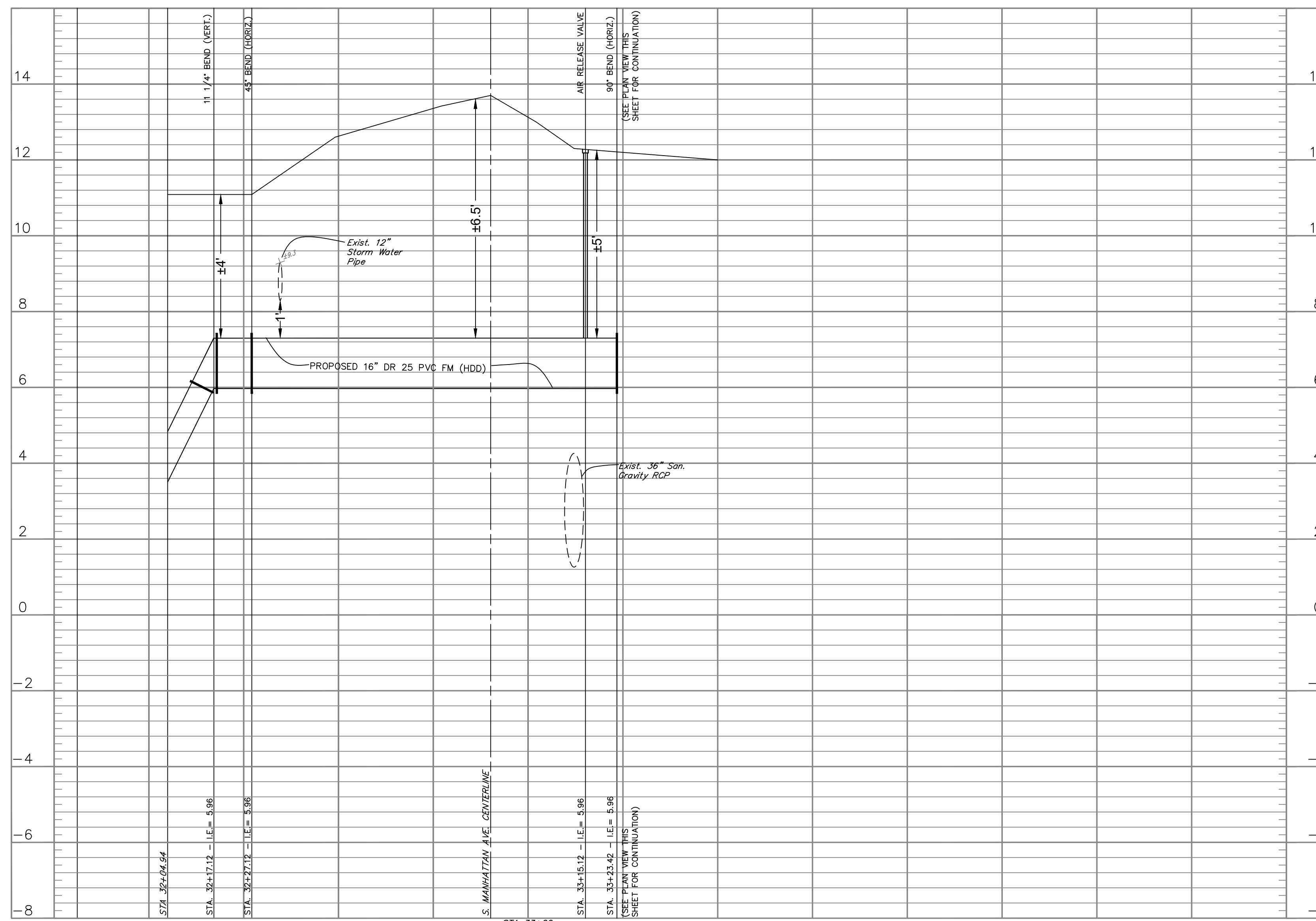
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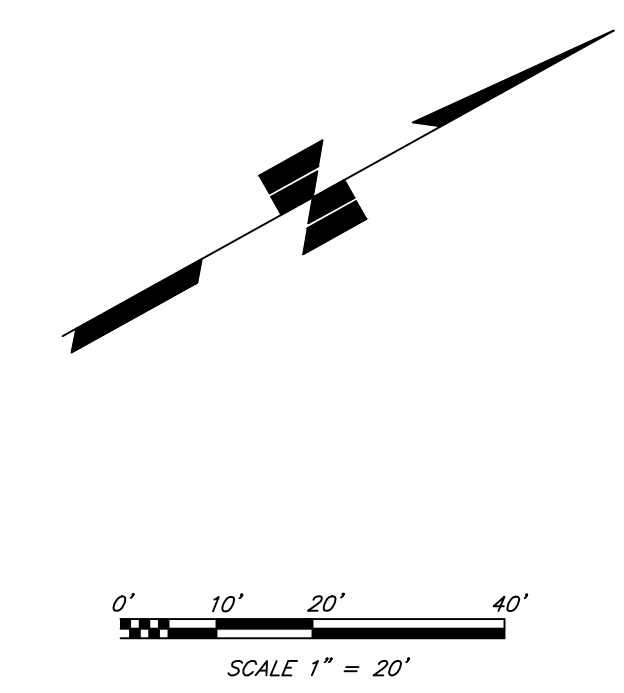
100% CONSTRUCTION DRAWINGS - 10/11/18
PROJECT: PRESCOTT PUMP STATION FORCEMAIN
SHEET: C1.7
JOB NO.: 18-003
STA. 27+24.69 TO 32+04.94



PLAN VIEW
Horizontal Scale: 1" = 20'



PROFILE VIEW
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'



LEGEND (As Applicable)

- BOC Back of Curb
- BFP Backflow Preventer
- (C) Calculated
- CLF Chain Link Fence
- CMP Corrugated Metal Pipe
- CO Clean Out
- Conc. Concrete
- CP Control Point
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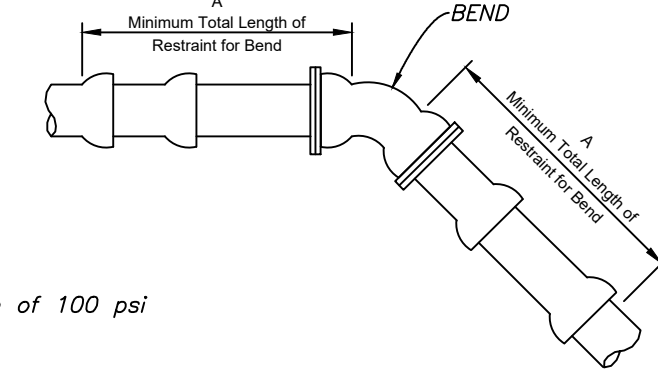
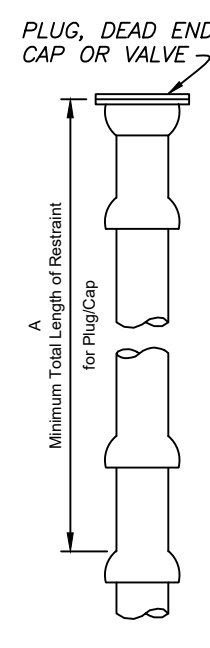
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STATE OF FLORIDA

100% CONSTRUCTION DRAWINGS - 10/11/18
PROJECT: PRESCOTT PUMP STATION FORCEMAIN
SHEET: C1.8
JOB NO.: 18-003
STA. 32+04.94 TO 33+23.42

GENERAL NOTES:

- ELEVATION INFORMATION SHOWN ON THESE PLANS IS REFERENCED TO N.G.V.D. 1929 UNLESS OTHERWISE STATED.
- LOCATIONS OF EXISTING UNDERGROUND UTILITIES WERE PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE. VERIFY THE LOCATION AND DEPTH OF ALL PERTINENT UTILITIES PRIOR TO CONSTRUCTION. NOTIFY UTILITY COMPANIES AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.
- FORCE MAIN CONNECTION LOCATIONS ARE APPROXIMATE ONLY, BASED ON AS-BUILT PLANS AND/OR VISUAL OBSERVATIONS. CONTRACTOR SHALL EXCAVATE AS NECESSARY TO VERIFY SHOWN LOCATIONS.
- WHEN CHANGING THE SEWAGE FLOW FROM THE EXISTING FORCE MAIN TO THE NEW FORCE MAIN, THE CONTRACTOR MAY BE REQUIRED TO PERFORM THE WORK DURING LOW-FLOW TIMES AT NIGHT. CONTRACTOR SHALL COORDINATE SUCH WORK WITH CITY STAFF AND THE PROPERTY OWNERS.
- CONTRACTOR SHALL PROVIDE A BORING LOG TO DOCUMENT THE DEPTH AND HORIZONTAL LOCATION OF THE HDPE PIPE AT A MAXIMUM OF 15 FOOT INTERVALS.
- THE MINIMUM CLEARANCE BETWEEN THE PROPOSED FORCE MAIN AND ALL CROSSING UTILITIES SHALL BE 18-INCHES, UNLESS NOTED OTHERWISE.
- THE PROPOSED FORCE MAIN SHALL BE INSTALLED ACCORDING TO THE STATIONS, OFFSETS AND INVERT ELEVATIONS PROVIDED WITH NO INTERMEDIATE HIGH OR LOW POINTS BETWEEN THE SPECIFIED INVERT ELEVATIONS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ALL FITTINGS AND BENDS SHALL BE DUCTILE IRON AWWA C-110 OR C-153. FITTINGS SHALL BE WRAPPED WITH GREEN POLYWRAP. FITTINGS SHALL BE LINED WITH PROTECTO 401 INTERIOR CERAMIC EPOXY.
- PLUG VALVES SHALL BE DEZURIK 100% PORT PEF.
- ALL FORCE MAIN VALVES, FITTINGS AND BENDS SHALL HAVE RESTRAINED MECHANICAL JOINTS UNLESS THE JOINTS ARE BUTT FUSED HDPE. ADDITIONALLY, ANY JOINTS WITHIN THE LIMITS TO BE RESTRAINED THAT ARE SHOWN ON THE PLANS SHALL ALSO BE RESTRAINED. RESTRAINING DEVICES SHALL BE "MEGA-LUG" AS MANUFACTURED BY EBHA IRON OR APPROVED EQUAL.
- ALL PROPOSED FORCE MAIN PIPE SHALL HAVE 2 LOCATING WIRES IN ACCORDANCE WITH THE PIPE LOCATING WIRE DETAIL. THE WIRES SHALL BE RAISED AND TERMINATED AT ALL PLUG VALVES, AIR RELEASE VALVES AND TERMINAL MANHOLES, SIMILAR TO THAT SHOWN ON THE AIR RELEASE VALVE DETAIL.
- AIR RELEASE BOXES SHALL BE INSTALLED IN GRASSSED AREAS AND NOT IN PAVEMENT OR SIDEWALKS. FINAL LOCATIONS OF BOXES WILL BE DETERMINED IN THE FIELD AT HIGH POINTS.
- CONTRACTOR SHALL ENSURE THAT WHEN PLANNING HIS LAYOUT FOR BORING ENTRANCE AND EXIT LOCATIONS, THAT HE DOES NOT BLOCK A SOLE DRIVEWAY TO THE FRONTING PROPERTY OWNER WITHOUT PROVIDING AN ALTERNATE ACCESS.
- CONNECTIONS BETWEEN HDPE AND PVC OR DIP SHALL BE IN ACCORDANCE WITH THE HDPE TRANSITION DETAIL.
- DURING THE M.O.T., THE CONTRACTOR SHALL MAINTAIN ALL PEDESTRIAN WALKWAYS AT ALL TIMES, INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, PEDESTRIAN RAMPS, CROSSWALKS AND BUS STOPS WHEN WORK IS BEING PERFORMED ON OR IN THE VICINITY OF A SIDEWALK, CROSSWALK, BUS STOPS OR OTHER PEDESTRIAN WAY. THE CONTRACTOR SHALL RELOCATE THE PEDESTRIAN WAY TEMPORARILY OR PROVIDE PEDESTRIANS WITH A SIGNED, SAFE PASSAGE AROUND THE WORK ZONE. PEDESTRIAN DETOURS SHALL BE IN ACCORDANCE WITH FDOT INDEX 660.
- PLUG VALVES SHALL BE DEZURIK OR APPROVED EQUAL.
- INSTALL AIR RELEASE VALVE (ARV) AT HIGH POINTS IN ACCORDANCE WITH STANDARD DETAILS AND AS DIRECTED BY THE CITY'S INSPECTOR. ARV BOX SHALL BE RATED FOR H-20 LOADING. FINAL LOCATION OF ARV SHALL BE IN GRASSSED AREAS AND NOT IN SIDEWALK OR PAVEMENT. MARK FINAL LOCATION OF ARVs ON THE AS-BUILT DRAWINGS.
- 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 RESOURCE 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.
- CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY CLOSURE PERMIT FROM THE CITY OF TAMPA RIGHT-OF-WAY DEPARTMENT.
- PAVEMENT RESTORATION SHALL CONSIST OF 8-INCH CRUSHED CONCRETE BASE, AND 2-INCH ASPHALT (SUPERPAVE SP-9.5) AT TRENCH. MILL AND OVERLAY 1" OF ASPHALT 10' ON EITHER SIDE OF TRENCH.
- THE CONTRACTOR SHALL LIMIT CURVATURE IN ANY DIRECTION TO REDUCE FORCE ON THE PIPE DURING PULL-BACK. THE BEND RADI FOR FUSIBLE POLYVINYL CHLORIDE (PVC) PIPE SHALL NOT BE LESS THAN 500' FOR 16-INCH PIPE.
- CONTRACTOR IS REQUIRED TO DEVELOP MOT DRAWINGS FOR THE MANHATTAN ROAD CLOSURE SHOWING DETOUR ROUTES, VARIABLE MESSAGE BOARDS, AND SIGNAGE. THE MOT MUST BE SIGNED AND SEALED BY AN ENGINEER AND SUBMITTED TO THE CITY'S PERMITTING OFFICE THROUGH ACECLA.
- BID ITEM FOR THE DIRECTIONAL DRILL PIPE IS 18" FPVC (DR-25). CONTRACTOR CAN USE 18" HDPE (DR-11) PIPE IN LIEU OF THE 18" FPVC. IF CONTRACTOR ELECTS TO USE THE 18" HDPE, THE ENTIRE PROPOSED FM SHALL REMAIN 18" DIAMETER INCLUDING THE MJ CONNECTION. ALL 18" BID ITEMS WILL BE PAID BY THE CORRESPONDING 16" BID ITEMS IN THE PROPOSAL AND THERE WILL BE NO ADDITIONAL COSTS TO THE CITY FOR THIS CHANGE IN THE PROPOSAL. FOR EXAMPLE, IF THE CONTRACTOR ELECTS TO USED 18" HDPE, HE WILL NEED TO INSTALL A 12"X18" REDUCER TO CONNECT TO THE EXISTING FM. THIS REDUCER WILL BE PAID BY THE 12"X16" REDUCER BID ITEM WITH NO ADDITIONAL COMPENSATION.



NOTES:

- These tables are based on:
 - Maximum test pressure of 100 psi
 - Class "C" pipe bedding
 - Poor soil conditions
 - PVC pipe
 - For vertical offsets, shallower vertical fitting has a minimum cover of 3 feet.
- Restraining devices for PVC pipe shall be by Megalug (Series 2000 PV) or equal, meeting ASTM F1674.
- Any additional fittings within the restrained section shall be restrained accordingly.
- One standard length of PVC pipe (20 feet) shall be laid on either side of the fitting where possible.

HORIZONTAL OFFSET:

FITTING TYPE	RESTRAIN "A" (L) *											
	4"	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"	48"
11-1/4"	1*	2*	2*	2*	3*	3*	3*	4*	4*	4*	4*	4*
22-1/2"	3*	3*	4*	4*	5*	6*	6*	7*	7*	8*	8*	8*
45°	4*	5*	7*	8*	9*	11*	13*	14*	16*	16*	16*	16*
90°	9*	12*	15*	18*	21*	27*	29*	32*	37*	37*	37*	37*
PLUG / CAP / ISOLATION VALVE	26	36	47	56	66	85	94	102	119	119	119	119

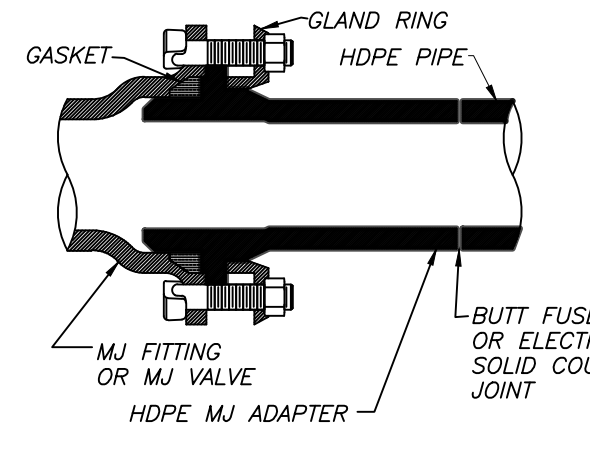
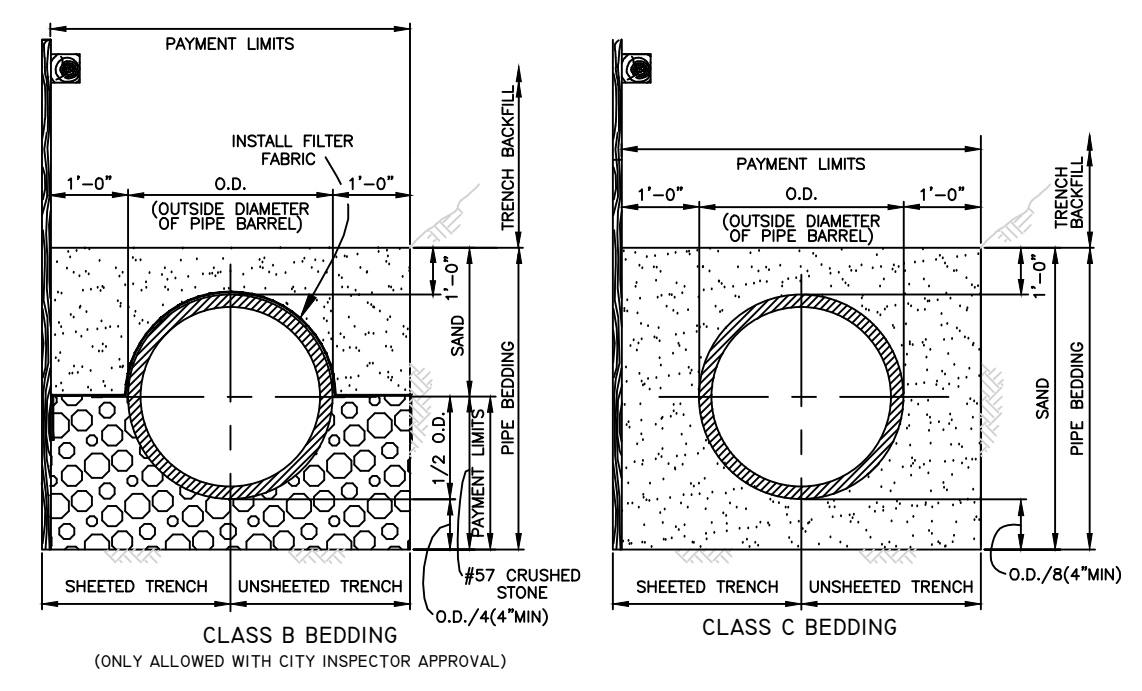
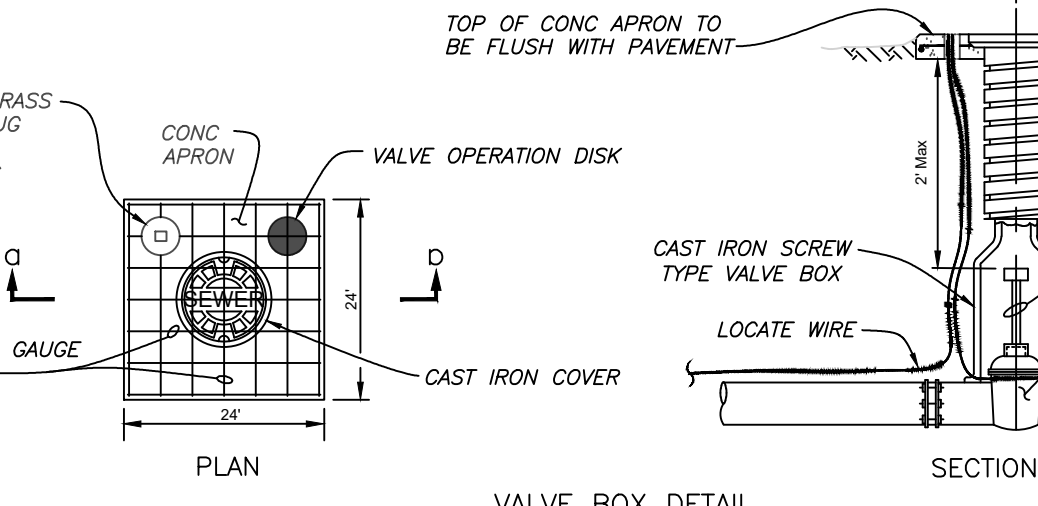
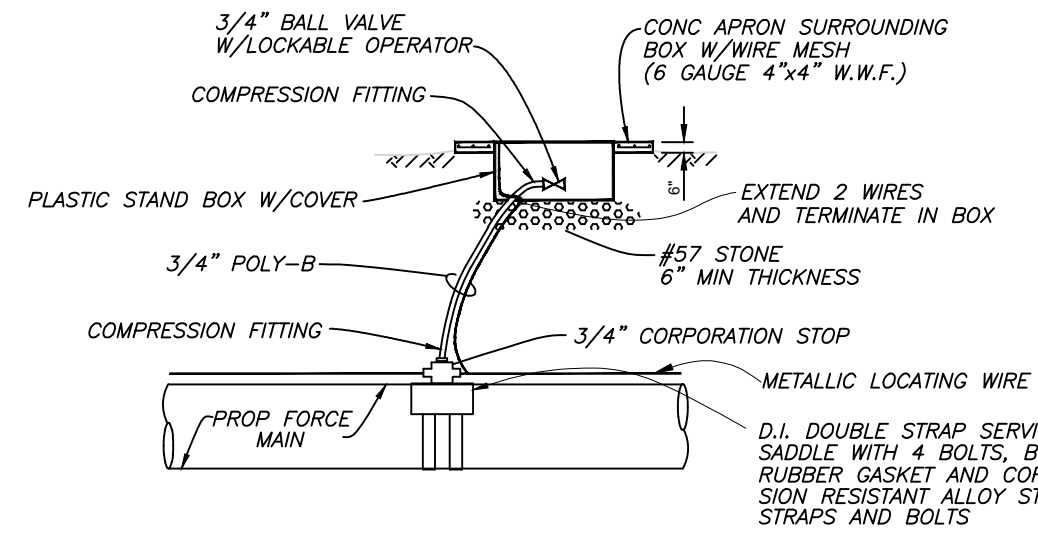
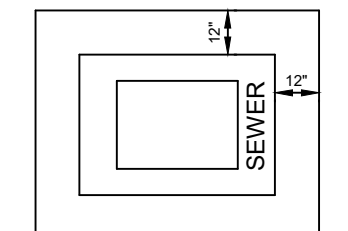
A = MINIMUM FOOTAGE OF PIPE TO BE RESTRAINED
 * MINIMUM ONE PIPE JOINT UPSTREAM AND DOWNSTREAM OF EACH FITTING SHALL BE RESTRAINED

VERTICAL OFFSET:

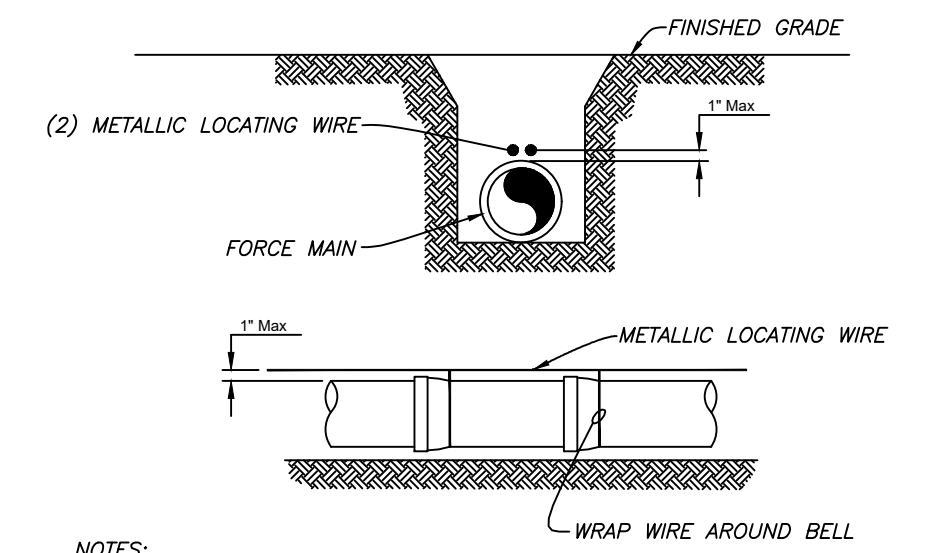
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22-1/2"	5*	8*	10*	12*	14*	17*	19*	21*	24*	24*	24*	24*
45°	11*	15*	20*	23*	28*	35*	39*	43*	50*	50*	50*	50*

A = MINIMUM FOOTAGE OF PIPE TO BE RESTRAINED
 * MINIMUM ONE PIPE JOINT UPSTREAM AND DOWNSTREAM OF EACH FITTING SHALL BE RESTRAINED

FITTING RESTRAINT DETAIL

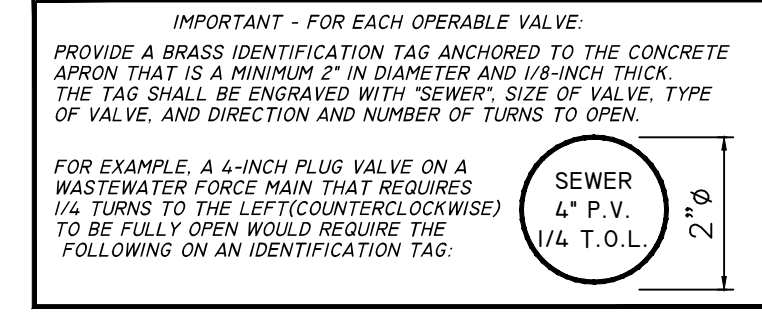


NOTE: Schematic shown for standard MJ fitting and plug valves.



NOTES:

- Pipe shall require 2 green insulated metallic locating wires capable of detection by a cable locator and shall be buried directly above the centerline of the pipe. Use duct tape as necessary to hold wire directly on top of pipe.
- Direct bury pipe shall have (2) 12 gauge insulated solid copper wires. Directional drilled pipe shall have (2) 8 gauge insulated solid copper wires or (2) 10 gauge insulated copper clad steel wires. For directional drilled HDPE pipe a 1" conduit may be pulled back with the locating wires to ease installation and to prevent the wires from breaking.
- Wire insulation must be suitable for buried service. HDPE or HMWPE are acceptable insulation materials. Nylon insulation is not acceptable.
- Wires must be spliced together with wire connectors suitable for buried service. Connectors shall be corrosion and moisture proof such as DBR Kit by 3M, Snakebite by Copperhead Industries or equal. Twisting the wires and sealing with electrical tape alone is not acceptable.
- All tracer wires must pass a continuity test in the presence of a City inspector. No pipe will be accepted by the City until a continuity test passes.
- Locating wire shall terminate at the top of each valve box and air release valve. Wire shall be capable of extending 24" above top of box in such a manner so as not to interfere with valve operation.



SUE DATA TABLE		
POINT #	DESCRIPTION	MEASURED DEPTH (FT)
#101	12" DIP SANITARY FM (CITY OF TAMPA)	4.88
#102	6" POLY. GM (TECO)	3.10
#103	12" DIP SANITARY FM (CITY OF TAMPA)	4.32
#104	6" DIP SANITARY FM (CITY OF TAMPA)	3.14
#105	12" DIP SANITARY FM (CITY OF TAMPA)	6.80

TEMPORARY CONTROL POINTS AND BENCHMARKS	
POINT #	DESCRIPTION
CP#1	1" IRON PIPE LOCATED 26' W. C/L SOUTH RENELLIE CT. & 39' S. OF S. BOC WEST MONTGOMERY AVE., ELEV. 6.79
CP#2	1" IRON PIPE LOCATED 31' W. C/L SOUTH RENELLIE DR. & 12' N. OF N. BOC WEST MONTGOMERY AVE., ELEV. 6.60
CP#3	CONCRETE MONUMENT & DISC LOCATED 31' E. C/L SOUTH TRASK ST. & 11' N. OF N. BOC WEST MONTGOMERY AVE., ELEV. 7.37
CP#4	1" IRON PIPE LOCATED 386' E. C/L SOUTH TRASK ST. & 12' N. OF N. BOC WEST MONTGOMERY AVE., ELEV. 8.08
CP#5	1" IRON PIPE LOCATED 604' E. C/L SOUTH TRASK ST. & 12' N. OF N. BOC WEST MONTGOMERY AVE., ELEV. 9.06
CP#6	5/8" IRON ROD LOCATED 24' S. C/L WEST FAIRVIEW HEIGHTS & 7' E. OF E. EOP MANHATTAN PL., ELEV. 9.85
CP#7	5/8" IRON ROD LOCATED 11' S. C/L OHIO AVE. & 13' E. OF E. EOP MANHATTAN PL., ELEV. 11.28
CP#8	5/8" IRON ROD LOCATED 117' N. OF CURB INLET ON W. SIDE EOP MANHATTAN PL. & 16' W. OF W. EOP MANHATTAN PL., ELEV. 11.02

REVISIONS

BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION

MILLS and ASSOCIATES, INC.
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 3242 HENDERSON BOULEVARD • SUITE 300
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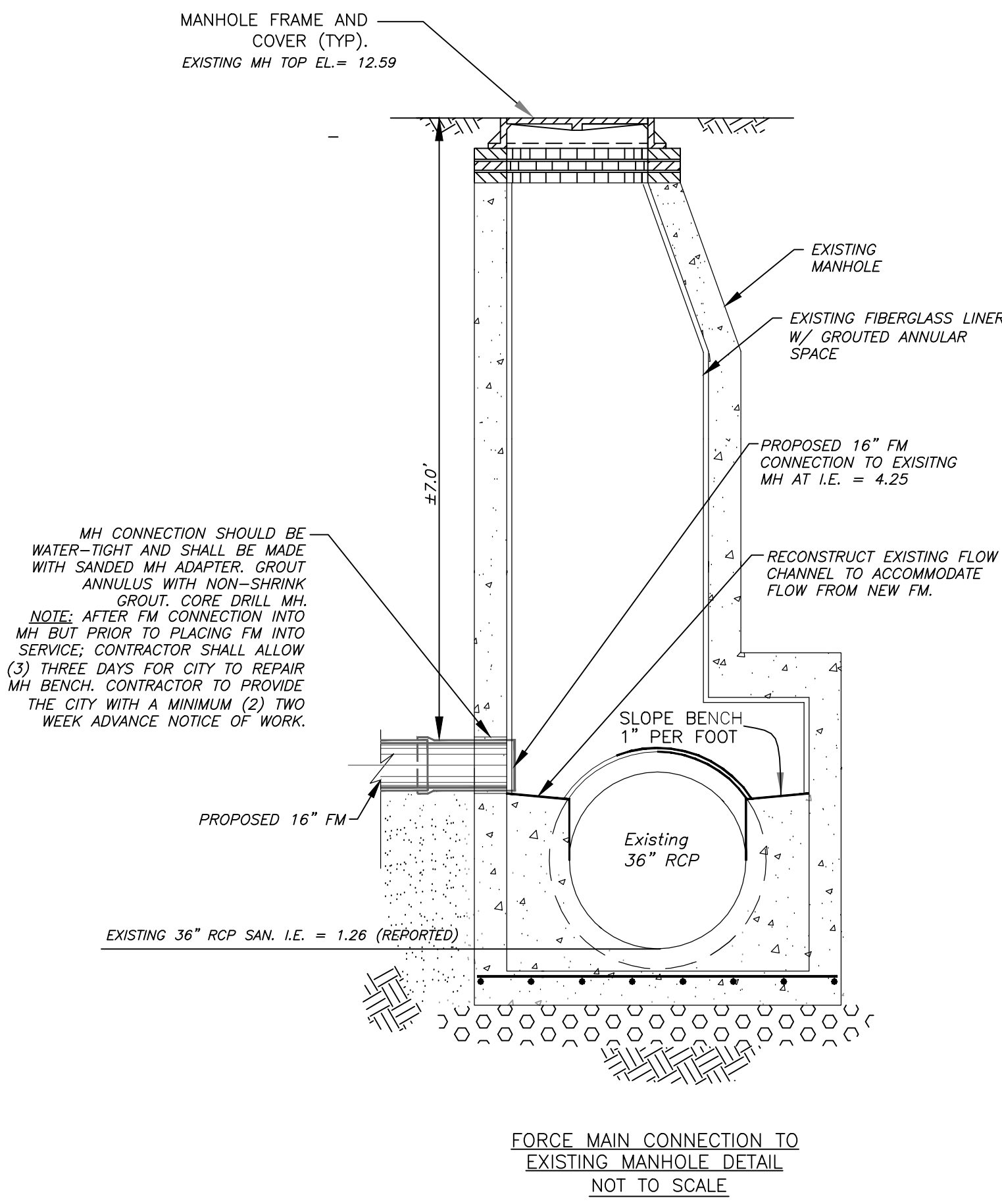
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 STATE OF FLORIDA

100% CONSTRUCTION DRAWINGS - 10/11/18

PROJECT	SHEET
PRESCOTT PUMP STATION FORCEMAIN	C2.1
DETAILS AND NOTES	JOB NO. 18-003



MH CONNECTION SHOULD BE WATER-TIGHT AND SHALL BE MADE WITH SANDED MH ADAPTER. GROUT ANNULUS WITH NON-SHRINK GROUT. CORE DRILL MH. NOTE: AFTER FM CONNECTION INTO MH BUT PRIOR TO PLACING FM INTO SERVICE, CONTRACTOR SHALL ALLOW (3) THREE DAYS FOR CITY TO REPAIR MH BENCH. CONTRACTOR TO PROVIDE THE CITY WITH A MINIMUM (2) TWO WEEK ADVANCE NOTICE OF WORK.

FORCE MAIN CONNECTION TO EXISTING MANHOLE DETAIL NOT TO SCALE

100% CONSTRUCTION DRAWINGS - 10/11/18

REVISIONS					
BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION

MILLS and ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
3242 HENDERSON BOULEVARD • SUITE 300
TAMPA, FLORIDA 33609-3056
TELEPHONE: (813) 876-5869

FOR
CITY OF TAMPA
WASTEWATER DEPARTMENT
2545 GUY N VERGER BLVD.
TAMPA, FLORIDA 33605

DRWN BY: AS DATE 03/30/18
DSGN BY: CVL DATE 09/05/18
CHKD BY: LEM DATE 09/05/18
SCALE: 1" = 20'

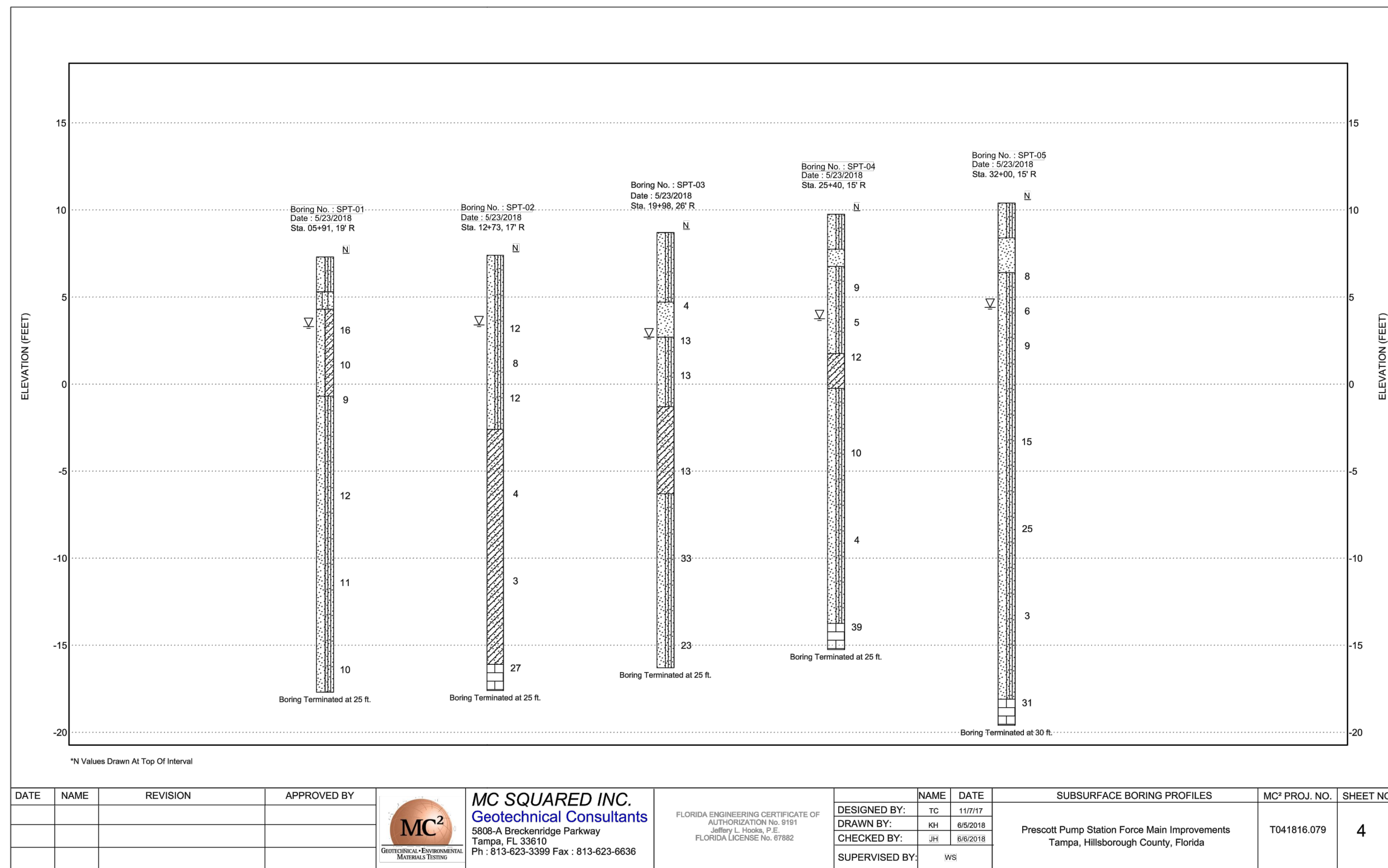
LAWRENCE E. MILLS
P.E. NO. 22324 - P.L.S. NO. 3141
E.B. NO. 3860 - L.B. NO. 3868
STATE OF FLORIDA

PROJECT
PRESCOTT PUMP STATION
FORCEMAIN

DETAILS AND NOTES

SHEET
C2.2

JOB NO.
18-003



LEGEND

	Top Soil		(CL-ML) Silty Clay
	Asphalt		(CH) Fat Clay
	Concrete		(CL) Lean Clay
	(GAB) Graded Aggregate Base		(OH) Organic Clay
	Limerock Base		(OL) Organic Silt
	No. 57 Stone		Peat
	Soil Cement		Fill
	(SP) Poorly Graded Sand		Bedrock
	(SP-SM) Poorly Graded Sand With Silt		Limestone
	(SP-SC) Poorly Graded Sand With Clay		(WLS) Weathered Limestone
	(SM) Silty Sand		(PWR) Partially Weathered Rock
	(SC) Clayey Sand		Granite
	(MH) Elastic Silt		Gneiss
	(ML) Silt		Schist

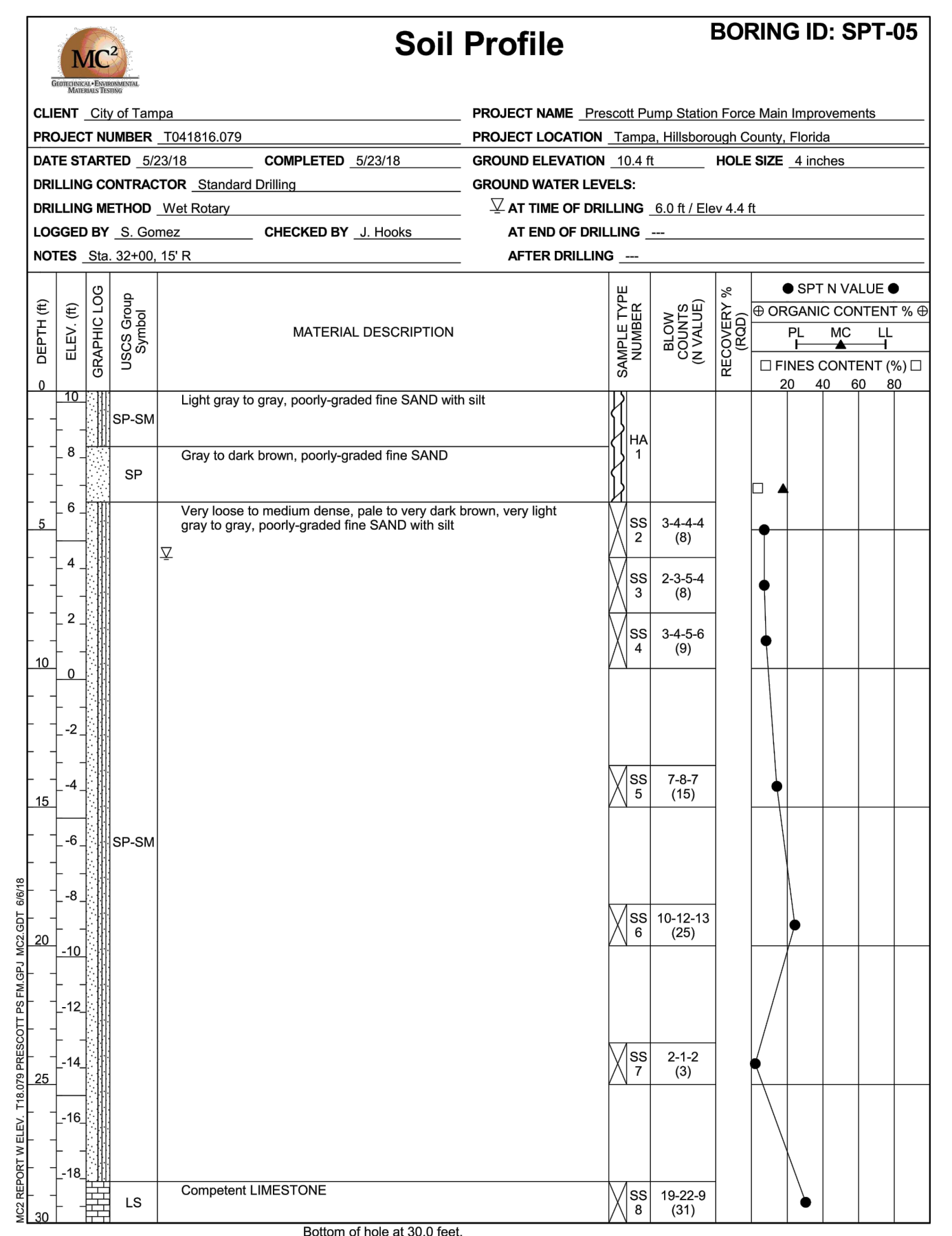
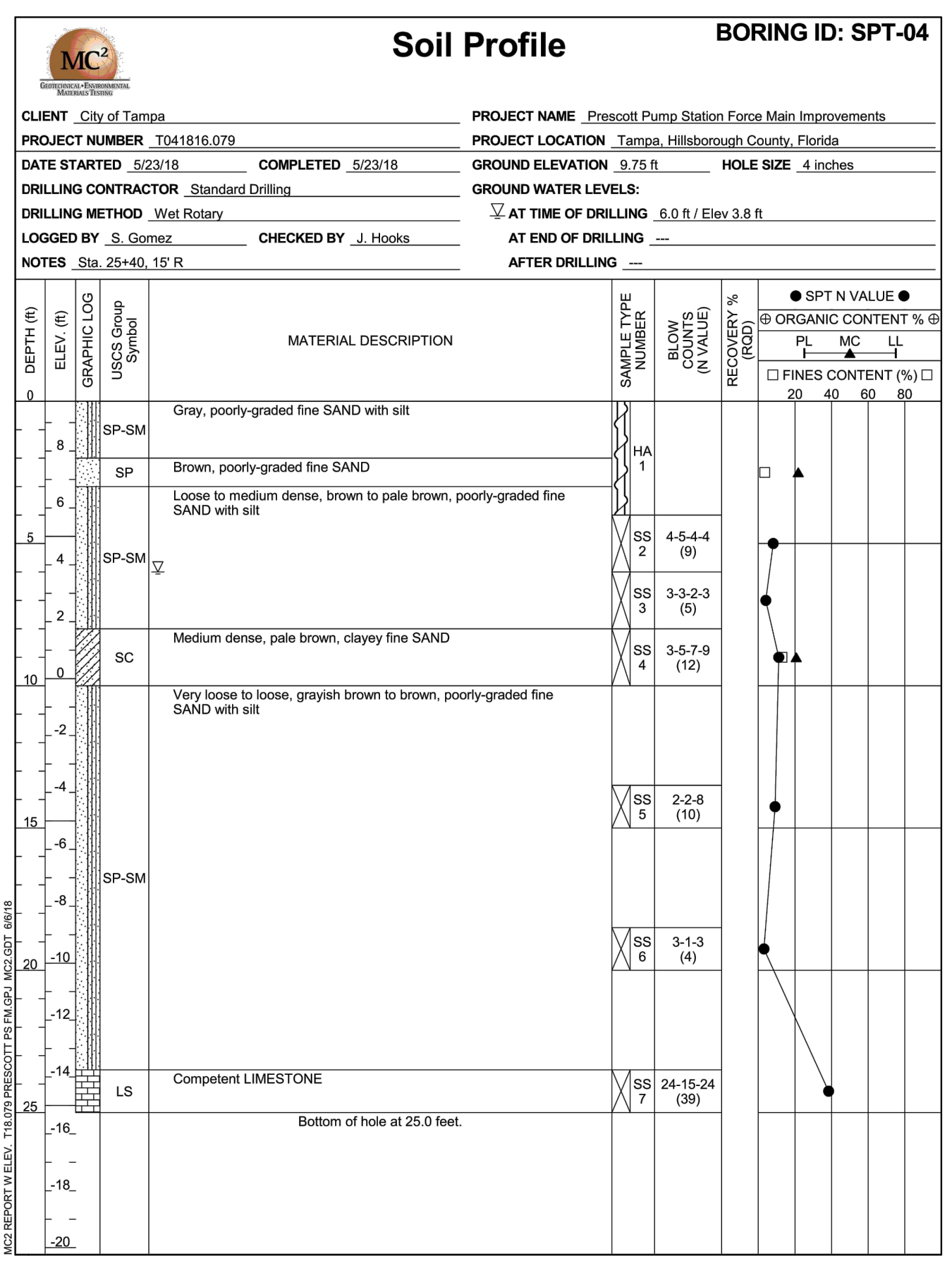
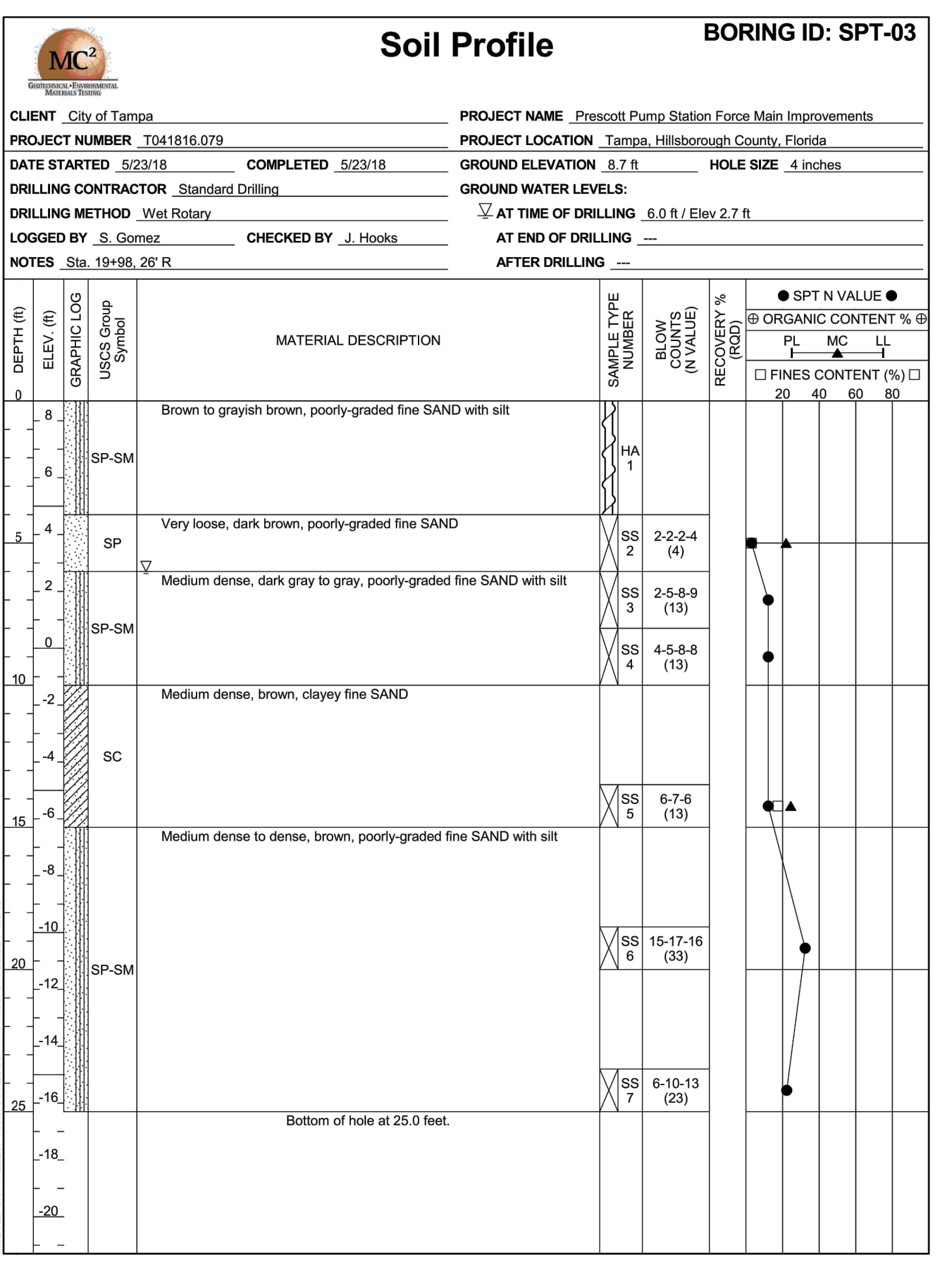
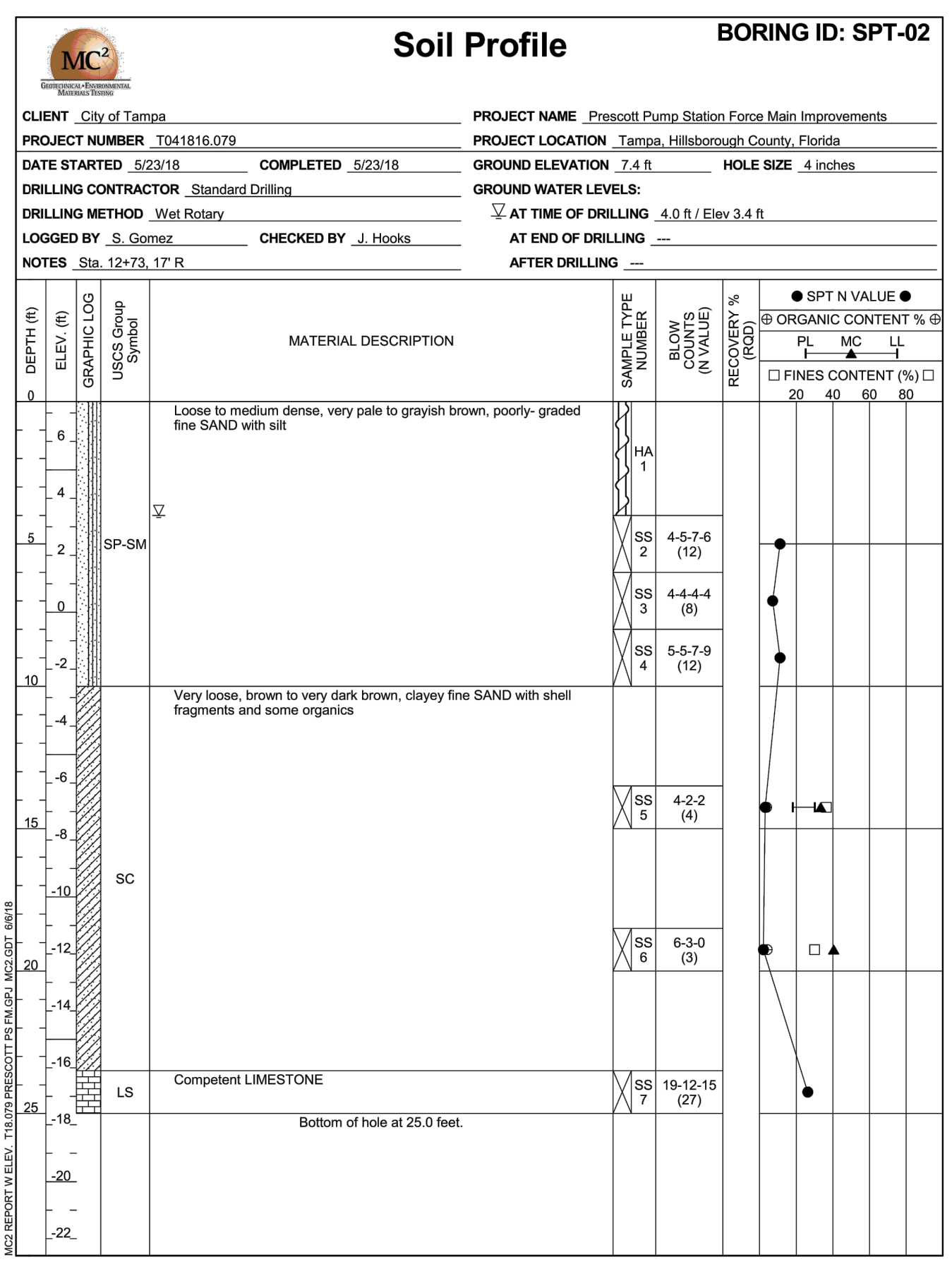
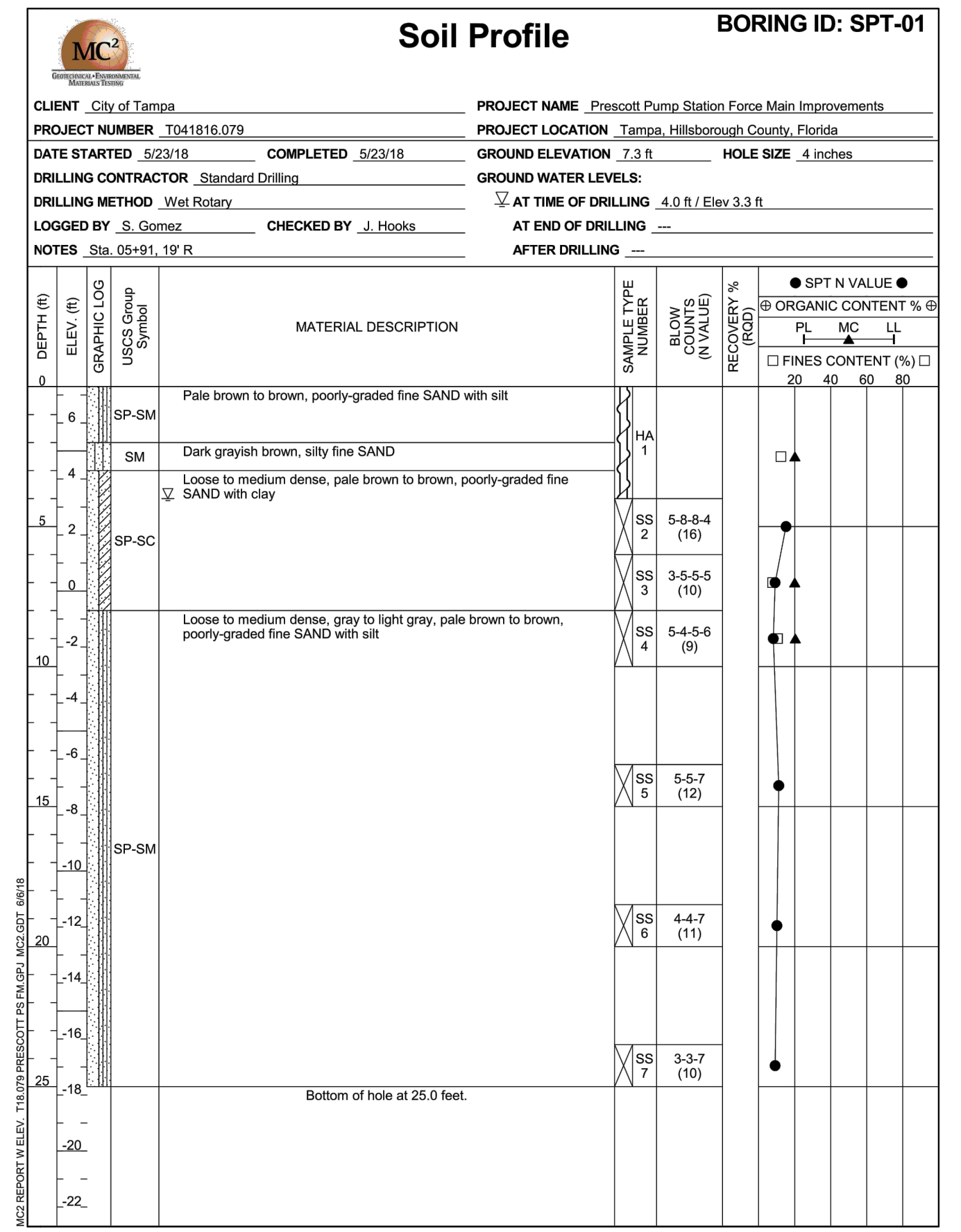
NOTES:

⊕ Water Table At Time Of Drilling	N SPT N-Value
⊕ Water Table After 24 Hours	WOH Weight-Of-Hammer
⊕ Groundwater Not Encountered	WOR Weight-Of-Rod
GNA Groundwater Not Apparent	CPT Cone Penetrometer Test
GNI Groundwater Not Measured	SPT Standard Penetration Test
CL Center Line	DT Dilatometer Test
RT Right Of Center Line	LOC Loss Of Circulation
LT Left Of Center Line	ROC Regain Of Circulation
BGS Below Ground Surface	REC Rock Core Recovery(%)
HA Hand Auger	RQD Rock Quality Designation
PA Power Auger	ST Shelby Tube Sample
NMC Natural Moisture Content (%)	⊕ Unconfined Compressive Strength From Pocket Penetrometer In Isf
-200 Fines Passing A No. 200 Sieve (%)	
PI Plasticity Index	
NP Non Plastic	
LL Liquid Limit	
OC Organic Content (%)	

GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT)
VERY LOOSE	≤ 4
LOOSE	5-10
MEDIUM DENSE	11-30
DENSE	31-50
VERY DENSE	GREATERS THAN 50

SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT)
VERY SOFT	≤ 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	30-50
VERY HARD	GREATERS THAN 50

SPT Spoon Inside Diameter 1 3/8" ASTM Standard Drop Safety Hammer
SPT Spoon Outside Diameter 2" Average Hammer Drop Height 30" Hammer Weight 140 lbs



*REFER TO GEOTECHNICAL REPORT FOR PRESCOTT PUMP STATION FORCE MAIN IMPROVEMENTS PREPARED BY MC SQUARED, INC. (DATED 06/11/18) FOR ADDITIONAL GEOTECHNICAL INFORMATION

100% CONSTRUCTION DRAWINGS - 10/11/18

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DRAWN BY: AS DATE 03/30/18
DESIGN BY: CVL DATE 09/05/18
CHECKED BY: LEM DATE 09/05/18
SCALE: N/A

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PROJECT
PRESCOTT PUMP STATION
FORCEMAIN
SPT BORING DATA
SHEET
C2.3
JOB NO.
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