DRAWING INDEX **COVER SHEET GENERAL NOTES** DEMOLITION PLAN DEMOLITION PLAN DEMOLITION NOTES CONCEPTUAL UTILITY PLAN CONCEPTUAL UTILITY PLAN CONCEPTUAL UTILITY PLAN STANDARD DETAILS STORMWATER POLLUTION PREVENTION PLAN LECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS ELECTRICAL SITE PLAN SINGLE LINE DIAGRAM CONTROL PANEL BILL OF MATERIALS CONTROL PANEL EXTERIOR LAYOUT CONTROL PANEL COMPONENT LAYOUT CONTROL PANEL ELEMENTARY DIAGRAM - SHEET ⁻ CONTROL PANEL ELEMENTARY DIAGRAM - SHEET 2 CONTROL PANEL ELEMENTARY DIAGRAM - SHEET 3 ENLARGED ELECTRICAL PLAN **ELECTRICAL DETAILS - 1** ELECTRICAL DETAILS - 2



CITY OF FORT LAUDERDALE

PROJECT #12412

PUMP STATION A-16 UPGRADE

WASTEWATER DESIGN CRITERIA PACKAGE
SE CORNER OF SE 11TH STREET & SE 3RD AVENUE
FORT LAUDERDALE, FLORIDA

PREPARED BY:



FLOOD ZONE: AH
BASE FLOOD ELEVATION (BFE): 6.0' NAVD 1988

ATTENTION, THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION.
THIS MUST BE TAKEN INTO ACCOUNT WHEN OBTAINING SCALED DATA.



PROJECT #12412
PUMP STATION A-16 UPGRADE
WASTEWATER DESIGN CRITERIA PACKAGE

SE CORNER OF SE 11TH STREET & SE 3RD AVENUE

CITY of FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT
ENGINEERING & ARCHITECTURE

100 North Andrews Avenue, Fort Lauderdale, Florida 33301

FORT LAUDERDALE CITY COMMISSION

DEAN J. TRANTALIS

HEATHER MORAITIS

STEVEN GLASSMAN

ROBERT McKINZIE

MAYOR

COMMISSIONER - DISTRICT II

COMMISSIONER - DISTRICT III

BEN SORENSEN COMMISSIONER - DISTRICT IV

PROJECT MANAGER

JOB TITLE

JORGE HOLGUIN

GARY R. RATAY

NATHANIEL HAMMOND

PROJECT MANAGER

ENGINEER OF RECO

ELECTRICAL ENGINE

JOB TITLE PHONE NO.
PROJECT MANAGER (954)828-5675
ENGINEER OF RECORD (954)535-5112
ELECTRICAL ENGINEER (404)769-6636

DATE: 03/10/21

CAD FILE: 12412-000-000COVR

DRAWING FILE No.: 4-142-31

DESIGN CRITERIA PACKAGE

- DESIGN BUILD FIRM SHALL MAINTAIN ACCESS TO PRIVATE PROPERTIES AT ALL TIMES
- REFER TO SPECIFICATION SECTION 01010 AND 15060 FOR DETAILED REQUIREMENTS FOR SEQUENCE OF CONSTRUCTION AND CONSTRUCTION CONSTRAINTS.
- RECORD DRAWINGS USED FOR EXISTING FEATURES. RECORD DRAWINGS MAY BE OBTAINED FROM THE OWNER UPON REQUEST.
- 4. DESIGN BUILD FIRM SHALL PROVIDE ALL FIELD SURVEY AND SECTECHNICAL SERVICES REFORE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES DESIGN BUILD FIRM SHALL VERIES EXISTING ELEVATIONS AND DIMENSIONS WHERE NEW WORK WILL MATCH EXISTING DISCREPANCIES SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE
- DESIGN BUILD FIRM SHALL OBTAIN ALL THE NECESSARY PERMITS FROM THE APPROPRIATE AUTHORITIES, DEPARTMENTS, AND/OR AGENCIES HAVING JURISDICTION PRIOR TO COMMENCING WORK.
- ALL PRACTICAL AND NECESSARY EFFORTS SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT UNNECESSARY TREE REMOVAL AND/OR DAMAGE.
- THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THE INFORMATION IS NOT GUARANTEED. THEREFORE THE DESIGN BUILD FIRM SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES
- UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY INFORMATION. IT IS THE DESIGN BUILD FIRM'S RESPONSIBILITY TO VERIFY THEIR EXACT LOCATION AND TO AVOID DAMAGE TO THEM. THE DESIGN BUILD FIRM SHALL CONTACT SUNSHINE 811 AT

- PHONE NUMBER 811 OR 1-800-432-4770 TO REQUEST UNDERGROUND UTILITY LOCATION MARK-OUT AT LEAST TWO (2) WORKING DAYS BUT NO MORE THAN TEN (10) WORKING DAYS PRIOR TO BEGINNING EXCAVATION, INCLUDING SOIL DRILLING. THE DESIGN BUILD FIRM SHALL ALSO CONTACT AND REQUEST UTILITY LOCATION MARK-OUT FROM BURIED UTILITY OWNERS WITH UTILITIES ON THE PROJECT SITE THAT ARE NOT PARTICIPANTS OF SUNSHINE 811.
- THE DESIGN BUILD FIRM SHALL EXERCISE CAUTION WHEN WORKING IN OR AROUND EXISTING CITY-OWNED UTILITIES. THE DESIGN BUILD FIRM SHALL NOTIFY THE CITY AT LEAST TWO BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION WITHIN TEN REPRESENTATIVE MAY BE PRESENT.
- . DESIGN BUILD FIRM SHALL TAKE CARE TO AVOID DAMAGE TO EXISTING PAVEMENT, STRUCTURES, AND UTILITIES THAT ARE NOT INDICATED TO BE DEMOLISHED OR REMOVED. ANY DAMAGE TO EXISTING PAVEMENT, STRUCTURES, AND UTILITIES NOT INDICATED TO BE DEMOLISHED OR REMOVED SHALL BE REPAIRED AT THE DESIGN BUILD FIRM'S EXPENSE.
- WHERE PROPOSED WORK IS IN THE VICINITY OF UTILITY POLES. SUCH THAT SUPPORT OF THE POLE(S) WILL BE REQUIRED. TH DESIGN BUILD FIRM SHALL BE RESPONSIBLE FOR NOTIFYING THI UTILITY OF THE WORK. IT WILL BE THE RESPONSIBILITY OF THE DESIGN BUILD FIRM TO COORDINATE WITH THE UTILITY FOR
- 12. DURING EXCAVATION AND PLACEMENT OF UTILITIES THE DESIGN BUILD FIRM SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS AND SHALL SUBMIT TO THE ENGINEER FOR APPROVAL SHEET PILING, SHORING AND/OR BRACING DESIGNS AS MAY BE NECESSARY TO COMPLY WITH THESE REGULATIONS.

TRAFFIC CONTROL PLAN NOTES:

THE TRAFFIC CONTROL PLANS FOR THE PROJECT SHALL COMPLY WITH THE LATEST EDITION OF THE

FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX

NO. 600-660. MUTCD AND THE STANDARD SPECIFICATIONS. THE CONTRACTOR'S RESPONSE TIME TO

TO ITS LEVEL OF OPERATION PRIOR TO THE MALFUNCTIONING WITHIN TWENTY-FOUR (24) HOURS.

MAINTAIN A SAFE AND EFFICIENT FLOW OF TRAFFIC AT THE AFFECTED WORK ZONE. THE ENGINEER

THE CONTRACTOR SHALL MAINTAIN PROPER OPERATION OF ALL TRAFFIC SIGNAL LOOP ASSEMBLIES

AND LOOP DETECTORS WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL CORRECT ALL LOOP

3. THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT

MARKINGS SHALL BE REMOVED DURING CONSTRUCTION. ALL EXISTING SIGNS THAT ARE REMOVED

SHALL BE STOCKPILED IN A SECURE PLACE AND REINSTALLED AFTER CONSTRUCTION, REMOVE AND

THE CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM THE CITY OF FORT LAUDERDALE

SHALL BE ALLOWED BETWEEN THE HOURS OF 6:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM, MONDAY

THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY TWO (2) BUSINESS DAYS IN

ADVANCE OF ANY EXCAVATION INVOLVING ITS LITILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE

EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. SEE SPECS

TRAFFIC CONTROL ON ALL COUNTY RIGHTS-OF-WAY SHALL MEET THE ADDITIONAL REQUIREMENTS

SHALL OBTAIN ALL REQUIRED APPROVALS AND PERMITS ASSOCIATED WITH THE MOT'S. ALL MOT'S TO

THE CONTRACTOR SHALL ALSO COORDINATE THE CONSTRUCTION SCHEDULE WITH FDOT, BROWARD

COUNTY AND THE CITY OF FORT LAUDERDALE TO AVOID LANE CLOSURES WHICH WOULD ADVERSELY

TRAFFIC CONTROLPLAN NOTES

CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC PLAN (MOT) WHERE REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL AGENCIES HAVING JURISDICTION. CONTRACTOR

FOR ANY AND ALL CONSTRUCTION ACTIVITIES TO BE PERFORMED AT NIGHT, NO LANE CLOSURE

4. A REGULATORY SPEED OF 25 MPH SHALL BE POSTED WITHIN THE LIMITS OF THE WORK ZONE.

5. EXISTING SIGNS AND PAVEMENT MARKINGS THAT CONFLICT WITH CONSTRUCTION SIGNS AND

6. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AND PREVENT ADVERSE

IS BROWARD COUNTY TRAFFIC ENGINEERING

REPLACE ANY GROUND MOUNT SIGN BY USE OF INDEX NO. 611.

FLOODING OF THE TRAVEL LANES DURING CONSTRUCTION.

THROUGH FRIDAY UNLESS APPROVED BY THE ENGINEER.

FOR UST OF UTILITY COMPANIES

AFFECT TRAFFIC DURING RUSH HOUR.

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT

ENGINEERING DETAILS

ASSEMBLY/DETECTOR MALFUNCTIONS WITHIN 24 HOURS OF NOTIFICATION OF SUCH MALFUNCTIONS

DURING THIS TIME THE CONTRACTOR SHALL PROVIDE AT HIS EXPENSE TEMPORARY TRAFFIC

OR THE CITY OF FORT LAUDERDALE SHALL APPROVE ALL MODIFICATIONS PRIOR TO THEIR

MORE THAN TWO (2) HOURS AND SHALL RESTORE ALL MALFUNCTIONING TRAFFIC SIGNAL EQUIPMENT

CONTROL DEVICES, FLAGGLER PERSONNEL AND LAW ENFORCEMENT PERSONNEL AS NECESSARY TO

ALL REPORTED MALFUNCTIONS OF TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS SHALL BE NO

- 13. GROUNDWATER FROM ALL DEWATERING OPERATIONS SHALL BE DISCHARGED TO AN ENVIRONMENTALLY ACCEPTABLE LOCATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 14. THE DESIGN BUILD FIRM SHALL REMOVE AND DISPOSE OF ALL DEBRIS GENERATED DURING THE PROJECT OFF SITE AT A PROPERLY PERMITTED DISPOSAL FACILITY.
- 15. ALL RESTORATION SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION OVER THE RIGHT-OF-WAY WHERE THE PROJECT IS CONSTRUCTED.
- 16. ALL LOOP DETECTORS, COMMUNICATION CABLES AND CONDUITS, IF DAMAGED BY THE DESIGN BUILD FIRM'S ACTIVITIES, SHALL BE REPAIRED AND/OR REPLACED IN ACCORDANCE WITH BCTED AND FDOT REQUIREMENTS
- PIPING, FITTINGS, AND APPURTENANCES FOR DUCTILE IRON, C900 PVC, AND HDPE PIPE SHALL BE RESTRAINED JOINT AS SPECIFIED.
- 18. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING PERMISSION AND A CONSTRUCTION METER FROM THE CITY OF
- THE DESIGN BUILD FIRM WILL BE RESPONSIBLE FOR LOCATING MOVING AND RELOCATING OR REPLACING ALL WATER SERVICES OR SEWER LATERALS WHICH ARE ENCOUNTERED DURING EXCAVATION. THE DESIGN BUILD FIRM SHALL SUBMIT A WRITTEN PLAN FOR WATER SERVICE AND WASTEWATER SERVICE DISRUPTION FOR APPROVAL 7 (SEVEN) CALENDAR DAYS PRIOR TO THE ANTICIPATED DISRUPTION. THÉ DESIGN BUILD FIRM SHALL NOTIFY THE PROPERTY OWNERS 48 HOURS IN ADVANCE OF ANY WORK ON THEIR SERVICES. THIS WORK SHALL BE CONSIDERED

BROWARD COUNTY SCHOOL

STANDARDS INDEX NO. 600 AS WELL AS MEETING ALL ADA REQUIREMENTS.

UNLESS SATISFACTORILY BARRICADED FROM THE WALK ROUTE.

THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT

FLEET SERVICE

TOCHTERMANN FLEET SERVICE

HARRELL

CITY FORT LAUDERDALE PUBLIC WORKS DEPARTMENT

ENGINEERING DETAILS

GNRL 002

IF THEY ARE STATE CERTIFIED AS A SCHOOL CROSSING GUARD.

ALTERNATE CROSSING/ROUTE.

TRAFFIC. THE FOLLOWING ARE MINIMUM REQUIREMENTS:

MAINTENANCE OF TRAFFIC NOTES

THE SAFE WALK ROUTE FOR ALL SCHOOL STUDENTS WITHIN THE VICINITY OF THE CONSTRUCTION

WALKING SURFACE CANNOT BE MAINTAINED, THEN A TEMPORARY WALKABLE SURFACE SHALL BE

PROPER PEDESTRIAN OPENINGS AT DESIGNATED CROSSINGS IN COMPLIANCE WITH FDOT DESIGN

ALL CONSTRUCTION EQUIPMENT ACTIVITY AROUND ANY DESIGNATED CROSSWALK SHALL CEASE TO OPERATE DURING THE STUDENT ARRIVAL AND DISMISSAL TIMES. ALL CONSTRUCTION

IN THE CASE THAT A DESIGNATED CROSSING OR ANY PORTION OF THE DESIGNATED WALK ROUTE

TEN (10) WORKING DAYS PRIOR TO CLOSING THAT ROUTE IN ORDER TO ESTABLISH AN

COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954) 847-2600, A MINIMUM

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL ANY NECESSARY PAVEMENT, ROAD

OTHER THAN THOSE PREVIOUSLY DESIGNATED. THE CONTRACTOR MAY USE FLAGMEN, BUT ONLY

THIRTY (30) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION THE CONTRACTOR SHALL NOTIFY

(954) 847-2600 OR AT BROWARD@TRAFFIC:ORG TO DISCUSS ALL NECESSARY SAFETY MEASURES.

STUDENT TRANSPORTATION & (754) 321-4472 VINCENT.HARRELL@BRO

STUDENT TRANSPORTATION & (754) 321-4400 MARY.TOCHTERMANN@B

BROWARD COUNTY SCHOOL MOT NOTES

SHEET

EMAIL

WARDSCHOOLS.COM

1754\321-4400 RUTH MASTERS@ EXT. # 2309 RDSCHOOLS.COM

EXT. # 2006 ROWARDSCHOOLS.COM

THE SPECIAL PROJECTS COORDINATOR AT BROWARD COUNTY TRAFFIC ENGINEERING DIVISION

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE FOLLOWING BROWARD COUNTY SCHOOL BOARD PUPIL TRANSPORTATION DEPARTMENT PERSONNEL IF CONSTRUCTION WILL

ROCK, PAVEMENT MARKINGS AND SIGNAGE AND/OR ANY PEDESTRIAN SIGNALIZATION AND/OR

EQUIPMENT ACTIVITY ADJACENT TO A DESIGNATED WALK ROUTE SHALL CEASE OPERATING

CANNOT BE MAINTAINED, THE CONTRACTOR SHALL NOTIFY THE SPECIAL PROJECTS

SIGNAL MODIFICATION TO ACCOMMODATE AN EXISTING OR ALTERNATE WALK ROUTE

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE STATE CERTIFIED SCHOOL CROSSING GUARDS OR OFF DUTY POLICE OFFICERS TO CROSS STUDENTS AT ALL LOCATIONS

ZONE SHALL BE MAINTAINED DURING STUDENT ARRIVAL AND DISMISSAL TIMES. IF THE CURRENT

CREATED. THE SAFE WALK ROUTE SHALL BE SEPARATED FROM THE CONSTRUCTION ACTIVITY

DURING THE ENTIRE LENGTH OF THE PROJECT ENCOMPASSING THE ENTIRE WALK ROUTE WITH

THE MAINTENANCE OF TRAFFIC PLAN, PROVIDED BY THE CONTRACTOR, SHALL INCLUDE

PROVISIONS FOR PEDESTRIAN AND/OR SCHOOL STUDENT TRAFFIC AS WELL AS VEHICULAR

- 20. IT WILL BE THE RESPONSIBILITY OF THE DESIGN BUILD FIRM TO NOTIFY THE UTILITIES DEPARTMENT OF THE CITY OF FORT LAUDERDALE AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE TO COORDINATE ANY ACTIVITY TO BE PERFORMED BY THE CITY'S UTILITIES DEPARTMENT.
- 21. DESIGN BUILD FIRM SHALL NOT DISTURB AREAS OUTSIDE EXISTING RIGHTS-OF-WAY.
- 22. ALL WORK WITHIN STATE DEPARTMENT OF TRANSPORTATION (FDOT) RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH FDOT SPECIFICATIONS AND PERMIT REQUIREMENTS.
- 23. ALL WORK WITHIN BROWARD COUNTY RIGHT-OF-WAYS SHALL BE IN CONFORMANCE WITH THE BROWARD COUNTY MINIMUM STANDARDS AND OR REQUIREMENTS.
- 24. DESIGN BUILD FIRM SHALL COMPLY WITH ALL LOCAL CITY, COUNTY AND STATE REGULATIONS PERTAINING TO THE CLOSING OF PUBLIC STREETS FOR USE OF TRAFFIC DURING 25. DESIGN BUILD FIRM SHALL PREPARE AND SUBMIT MAINTENANCE
- OF TRAFFIC (MOT) PLANS TO FDOT, CITY OF FORT LAUDERDALE BROWARD COUNTÝ AS REQUIRED FOR WORK TO BE DONE WITHIN THEIR R/W PRIOR TO COMMENCEMENT OF WORK. SPECIFIC AGENCY MOT REQUIREMENTS ARE THE SOLE RESPONSIBILITY OF THE DESIGN BUILD FIRM.
- 26. DESIGN BUILD FIRM SHALL SUBMIT MOT PLANS FOR APPROVAL BY THE CITY WHEN WORKING WITHIN THE PUBLIC RIGHT-OF-WAY.
- 27. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAY OR WALKWAY SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN

- 28. TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR 34. DESIGN BUILD FIRM SHALL RESTORE EXISTING PAVEMENT AND SHOULDERS SHALL NOT BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT ADEQUATE PROTECTION.
- 29. DESIGN BUILD FIRM SHALL PROMPTLY REPAIR AND RESTORE EXISTING PAVEMENT, SIDEWALKS, CURBS, DRIVEWAYS, PIPES, RESIDENTIAL AND COMMERCIAL SPRINKLER LINES, CONDUIT CABLES, ETC. AND LANDSCAPE AREAS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
- 30. DESIGN BUILD FIRM SHALL PROVIDE TEMPORARY FENCING AS REQUIRED BY AGENCIES HAVING JURISDICTION OVER THE PROJECT AND/OR WHEN REQUIRED FOR PUBLIC SAFETY.
- 31. THE DESIGN BUILD FIRM SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF WORK, FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE DESIGN BUILD FIRM SHALL BE RESPONSIBLE FOR AKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
- 32. DESIGN BUILD FIRM SHALL ADJUST TO GRADE ALL EXISTING UTILITY CASTINGS INCLUDING VALVE BOXES, MANHOLES, HAND HOLES. PULL BOXES. INLETS AND SIMILAR STRUCTURES IN CONSTRUCTION AREA TO BE OVERLAYED WITH ASPHALT.
- 33. EXISTING TRAFFIC SIGNS SHALL BE RESET UPON COMPLETION PER BROWARD COUNTY TRAFFIC ENGINEERING STANDARDS. COST SHALL BE CONSIDERED INCIDENTAL. DESIGN BUILD FIRM SHALL REPAIR OR REPLACE DAMAGED TRAFFIC SIGNAL LOOPS PER BROWARD COUNTY TRAFFIC ENGINEERING SPECIFICATIONS; COST SHALL BE INCIDENTAL.

UPON COORDINATION WITH THE AFOREMENTIONED PERSONNEL, AND IF DEEMED NECESSARY, A PRE-CONSTRUCTION MEETING WILL BE HELD TO DETERMINE ALL BUS ROUTES AND TO MAKE ANY

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION, (954) 847-2600, WILL BE NOTIFIED AND MAY

TRAFFIC PLAN (MOT), SPECIFYING THE ABOVE SCHOOL/PEDESTRIAN CONDITIONS, THROUGH THE

THE ROADWAY JURISDICTION. THE CONDITIONS OUTLINED IN THE MOT ARE FULLY EFFECTIVE AS

ENSURING THAT ALL WORK ASSOCIATED WITH THE PROJECT IS IN COMPLIANCE WITH ALL THE

1. THE CONTRACTOR SHALL ENSURE THAT THERE ARE NO SPEED LIMIT SIGNS INSTALLED WITHIN THE

DESIGNATED REDUCED SPEED SCHOOL ZONE AT ANY TIME THROUGHOUT THE PROJECT.

PART OF THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION OR THE LOCAL MUNICIPALITY, DEPENDING ON

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN APPROVED MAINTENANCE OF

ATTEND THE PRE-CONSTRUCTION MEETING.

REQUIREMENTS OF THE APPROVED MOT.

NECESSARY ARRANGEMENTS FOR REROUTING. THE SPECIAL PROJECTS COORDINATOR FROM THE

- PAVEMENT MARKINGS/SIGNAGE TO ORIGINAL PRE-CONSTRUCTION CONDITION OR AS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS. THIS WORK SHALL BE CONSIDERED INCIDENTAL.
- 35. ALL CONSTRUCTION WITHIN FDOT R/W MUST CONFORM WITH FDOT SPECIFICATIONS, STANDARDS, AND PERMIT REQUIREMENTS. NO WORK SHALL COMMENCE WITHIN FDOT R/W's WITHOUT AN FDOT PERMIT. FULL LANE WIDTH RESTORATION TO MATCH EXISTING PAVEMENT SECTION IS REQUIRED IN ACCORDANCE WITH FDOT STANDARDS FOR PROPOSED WORK WITHIN FDOT R/W.
- 36. THE DESIGN BUILD FIRM SHALL SUBMIT ALL REQUIRED SHOP DRAWINGS FOR CITY APPROVAL PRIOR TO ORDERING MATERIALS AND INSTALLATION.
- 37. EXISTING GAS MAINS SHALL BE IDENTIFIED BY THE APPROPRIATE UTILITY, PRIOR TO START OF CONSTRUCTION.
- 38. REFER TO SECTION 02065 AND DEMOLITION PLANS FOR DEMOLITION DETAILS.
- 39. REFER TO DIVISIONS 2 AND 15 FOR UTILITY SPECIFICATIONS.

<u>UTILITY CONTACTS:</u> TECO PEOPLES GAS 5101 NW 21ST AVENUE FORT LAUDERDALE, FL 33309 PHONF: (954)453-0794 CONTACT: DAVID RIVERA

AT&T FLORIDA 8601 WEST SUNRISE BOULEVARD PLANTATION, FL 33322 PHONE: (305)428-05010

FLORIDA POWER & LIGHT COMPANY '201 CYPRESS ROAD. CSF-CB PLANTATION, FL 33317 PHONE: (954)717-2057 CONTACT: TROY LEWIS

CONTACT: OTIS T. KEEVE CITY OF FORT LAUDERDALE MOT 290 NE 3RD AVENUE FORT LAUDERDALE, FL 33301 PHONE: (954)828-3721 CONTACT: KRISTIN THOMPSON

<u>LEGEND</u>

ABBREVIATIONS

C.L.F. = CHAIN LINK FENCE CMP CONC. = CONCRETE

F.H. GAS = GAS MAIN

OHW = OVERHEAD WIRES R/W = RIGHT-OF-WAY LINE

SAN = SANITARY SEWER PIPE SMH = SANITARY MANHOLE

UNK. = UNKNOWN TREE TYPE U.T.O.

= UNKNOWN VALVE = WATER VALVE

= FIRE HYDRANT INV. = PIPE INVERT

RCP

S.V. T.O.P. = TOP OF PIPE

U.V. W.V.

B.C.H.C.E.D. = BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DEPARTMENT.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT BROWARD COUNTY SCHOOL MOT NOTES ENGINEERING DETAILS

THE CONTRACTOR SHALL PROVIDE SIX (6) SETS OF MARKED UP (AS-BUILT) CONSTRUCTION PLANS TO THE ENGINEER AND BCTED AS DEFINED IN FOOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 611. SEVEN (7) DAYS PRICR TO SCHOOL FLASHER CONDITIONAL ACCEPTANCE INSPECTION BY BCTED. THE CONTRACTOR SHALL ALSO PROVIDE TWO SETS OF AS-BUILT PLANS TO BCTED SIGNAL TECHNICIAN AT THE TIME OF INSPECTION. TWO COPIES OF CABINET PRINTS. TWO SETS OF CABINET KEYS AND PAGER/TIME SWITCH OPERATION MANUALS FOR EACH LOCATION SHALL ALSO BE TURNED OVER AT THIS TIME.

D. THE CONTRACTOR IS ADVISED THAT THE PRESENCE OF OVERHEAD ELECTRICAL CONDUCTORS IN CLOSE PROXIMITY TO THE LOCATIONS OF PROPOSED SCHOOL FLASHERS MAY LIMIT THE TYPE OF EQUIPMENT THAT CAN BE USED IN CONSTRUCTION OF THE SCHOOL FLASHER. THE CONTRACTOR SHALL COORDINATE WITH FPL TO DEACTIVATE LINES IF NECESSARY

GNRL 005

2018/09/21

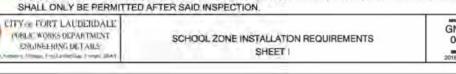
ALL SIGN ASSEMBLIES SHOWN OR NOTED ON THE PLAN SHEETS FOR REMOVAL SHALL BE DELIVERED TO THE BCTED OPERATIONS BUILDING, 2300 WEST COMMERCIAL BLVD., FORT LAUDERDALE. EXISTING FLASHERS ARE NOT TO BE REMOVED UNTIL AFTER THE NEW UNIT HAS

PASSED ITS FINAL INSPECTION. 2. SIGN LOCATIONS MAY BE VARIED IN THE FIELD AS NECESSARY IN ORDER TO AVOID CONFLICTS WITH UNFORESEEN OBSTACLES, DRIVEWAYS, ETC. ANY SIGN LOCATION VARIATIONS SHALL BE APPROVED BY THE ENGINEER OF RECORD AND SHOWN ON THE AS BUILTS.

CITY OF FORT LAUDERDALE PUBLIC WORKS DEPARTMENT ENGINELIUNG DETAILS

SCHOOL ZONE INSTALLATION REQUIREMENTS

- THE CONTRACTOR SHALL BE GOVERNED BY THE LATEST EDITIONS OF THE FOLLOWING MANUALS:
- B. THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND ERIDGE CONSTRUCTION
- C. THE BROWARD COUNTY MINIMUM STANDARDS APPLICABLE TO PUBLIC RIGHTS-OF-WAY
- HTTP://WWW.BROWARD.ORG/TRAFFIC/PAGES/PUBLICATIONS.ASPX. THE "MAINTENANCE OF TRAFFIC SCHOOL/PEDESTRIAN" NOTES SHALL APPEAR ON THE PLAN AS
- EITHER THE BCTED OR FDOT VERSION, WHICH WILL BE DETERMINED BY THE SCHOOL SAFETY PROGRAM SPECIAL PROJECTS COORDINATOR AT BCTED.
- SCHOOL FLASHER PLANS ARE VALID FOR EIGHTEEN (18) MONTHS FROM DATE OF APPROVAL. AFTER THAT DATE, PLANS SHALL BE RESUBMITTED FOR APPROVA
- NO SCHOOL FLASHER AND/OR ASSOCIATED EQUIPMENT SHALL BE PLACED OUTSIDE OF THE PUBLIC RIGHT-OF-WAY OR ON PRIVATE PROPERTY WITHOUT THE PRIOR ACQUISITION OF THE NECESSARY TRAFFIC ENGINEERING EASEMENTS BY THE CONSULTANT/CONTRACTOR: THESE EASEMENTS SHALL BE LARGE ENOUGH TO ALLOW ACCESS TO THE TRAFFIC ENGINEERING EQUIPMENT BY TECHNICIANS AND BY LARGER VEHICLES WHICH MAY REQUIRE ACCESS TO THE EQUIPMENT. THE SIZE AND LOCATION OF THE EASEMENTS WILL BE DETERMINED ON A CASE-BY-CASE BASIS. THE EASEMENTS SHALL BE RECORDED DOCUMENTS AND A COPY OF THE SPECIAL PROJECTS COORDINATOR PRIOR TO INSTALLATION.
- IF ELECTRICAL SERVICE IS REQUIRED, THE CONTRACTOR SHALL MAKE WRITTEN REQUEST TO BCTED, SYSTEMS SECTION - DESIGN ENGINEER, TO PROVIDE BILLING AUTHORIZATION TO FPL. THIS IS REQUIRED BEFORE ELECTRICAL SERVICE CAN BE OBTAINED. THE REQUEST SHALL INCLUDE A STATEMENT CERTIFYING THAT THIS ELECTRICAL INSTALLATION MEETS OR EXCEEDS ALL APPLICABLE REQUIREMENTS OF ALL APPLICABLE CODES AND IS NOW READY FOR CONNECTION TO FPL FACILITIES. ALSO INCLUDE THE DATE SERVICE IS REQUIRED BY IN THE REQUEST.
- THE CONTRACTOR SHALL MAKE WRITTEN REQUEST TO THE SCHOOL SAFETY PROGRAM SPECIAL PROJECTS COORDINATOR AT BCTED EITHER BY FAX: 954-847-2700 OR E-MAIL: TRAFFIC@BROWARD.ORG TO SCHEDULE AN INSPECTION OF THE COMPLETE INSTALLATION, SHALL ONLY BE PERMITTED AFTER SAID INSPECTION.





© 2021 KIMLEY-HORN AND ASSOCIATES, INC

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324

PHONE: 954-535-5100 FAX: 954-739-2247

WWW.KIMLEY-HORN.COM REGISTRY No. 696

141 PI DI ES

(7)

CAD FILE:

12412-MULTI-NOTE DRAWING FILE NO. 4-142-31

KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG 's fast. It's free. It's the lav

THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS

COMMUNICATION NOTES

BROWARD COUNTY

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED). ALL SYSTEM COMMUNICATIONS EQUIPMENT, CABLING AND RELATED MATERIAL SHALL COMPLY WITH BROWARD COUNTY'S LATEST EDITION OF THE MINIMUM STANDARDS AS EXPRESSED IN THE "STANDARDS AND SPECIFICATIONS -COMMUNICATION INFRASTRUCTURE" DOCUMENT, PLEASE REFER TO (BCTED'S) COMMUNICATIONS POLICIES AND PROCEDURES FOR ADDITIONAL INFORMATION. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION WILL NOT ACCEPT ANY PROJECTS THAT DO NOT MEET THESE STANDARDS AND SPECIFICATIONS, IF FIBER OPTIC PULL BOXES ALREADY EXIST AT AN INTERSECTION, NO ADDITIONAL FIBER OPTIC PULL BOXES WILL NEED TO BE INSTALLED. FOR A COPY OF THESE STANDARDS REFER TO THE BROWARD COUNTY WEB SITE AT WWW.BROWARD.ORG/TRAFFIC UNDER PUBLICATIONS.

IF THERE ARE COPPER INTERCONNECT CABLE/S WITHIN YOUR PROJECT LIMITS OR WITHIN 1,500 FEET OF YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.

3. IF THERE ARE FIBER OPTIC CABLE/S WITHIN YOUR PROJECT LIMITS OR WITHIN 1.500 FEET OF YOUR PROJECT LIMITS. CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.

4. IF THERE ARE CELLULAR COMMUNICATIONS WITHIN YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.

5. ALL BCTED COMMUNICATIONS CABLES/CONDUIT SHALL BE LOCATED A MINIMUM OF 48 HOURS IN BROWARD COUNTY TRAFFIC ENGINEERING DIVISION

PROCEDURE FOR NOTIFICATION OF COMMUNICATION DISRUPTION COPPER INTERCONNECT CABLE NOTIFICATION CONTACT PERSON:

WHEN COMMUNICATIONS TO AN INTERSECTION MUST BE DISRUPTED BY A CONTRACTOR TO PERFORM WORK, THE CONTRACTOR SHALL PROVIDE TWO DAY ADVANCE NOTICE IN WRITING TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THIS NOTIFICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (EMAIL) TO THE TRAFFIC SIGNAL TECHNICIAN III AT TECOMMUNICATIONS@BROWARD.ORG. NOTIFICATION SHALL INCLUDE CONTACT PERSON, TELEPHONE NUMBER, PURPOSE, LOCATION AND DURATION. THE DISRUPTION SHALL LAST FOR NO MORE THAN 3 CONSECUTIVE BUSINESS DAYS. WHERE POSSIBLE, THE DISRUPTION SHALL BE DURING OFF PEAK HOURS BEGINNING AT 9:00 AM AND ENDING AT 3:00 PM. FIBER OPTIC CABLE NOTIFICATION CONTACT PERSON:

WHEN COMMUNICATIONS TO AN INTERSECTION MUST BE DISRUPTED BY A CONTRACTOR TO PERFORM WORK, THE CONTRACTOR SHALL PROVIDE TWO DAY ADVANCE NOTICE IN WRITING TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THIS NOTIFICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (EMAIL) TO THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG. NOTIFICATION SHALL INCLUDE CONTACT PERSON, TELEPHONE NUMBER, PURPOSE, LOCATION AND DURATION. THE DISRUPTION SHALL LAST FOR NO MORE THAN 3 CONSECUTIVE BUSINESS DAYS, WHERE POSSIBLE, THE DISRUPTION SHALL BE DURING OFF PEAK HOURS BEGINNING AT 9:00 AM AND ENDING AT 3:00 PM.

UTILITY OWNER CONTACT PERSON INTERCONNECT COMMUNICATIONS CABLES - (ROBERT BLOUNT) BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED) 954-847-2745

CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT BROWARD COUNTY COMMUNICATION NOTES ENGINEERING DET AILS

A. THE FDOT DESIGN STANDARDS

FOR THE LATEST EDITION OF SCHOOL FLASHER DETAIL SHEETS AND MAINTENANCE OF TRAFFIC SCHOOL/PEDESTRIANS NOTES, SEE THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S WEB SITE AT:

INDICATED, DEPENDING ON THE JURISDICTION OF THE ROADWAY THE CONTRACTOR WILL UTILIZE

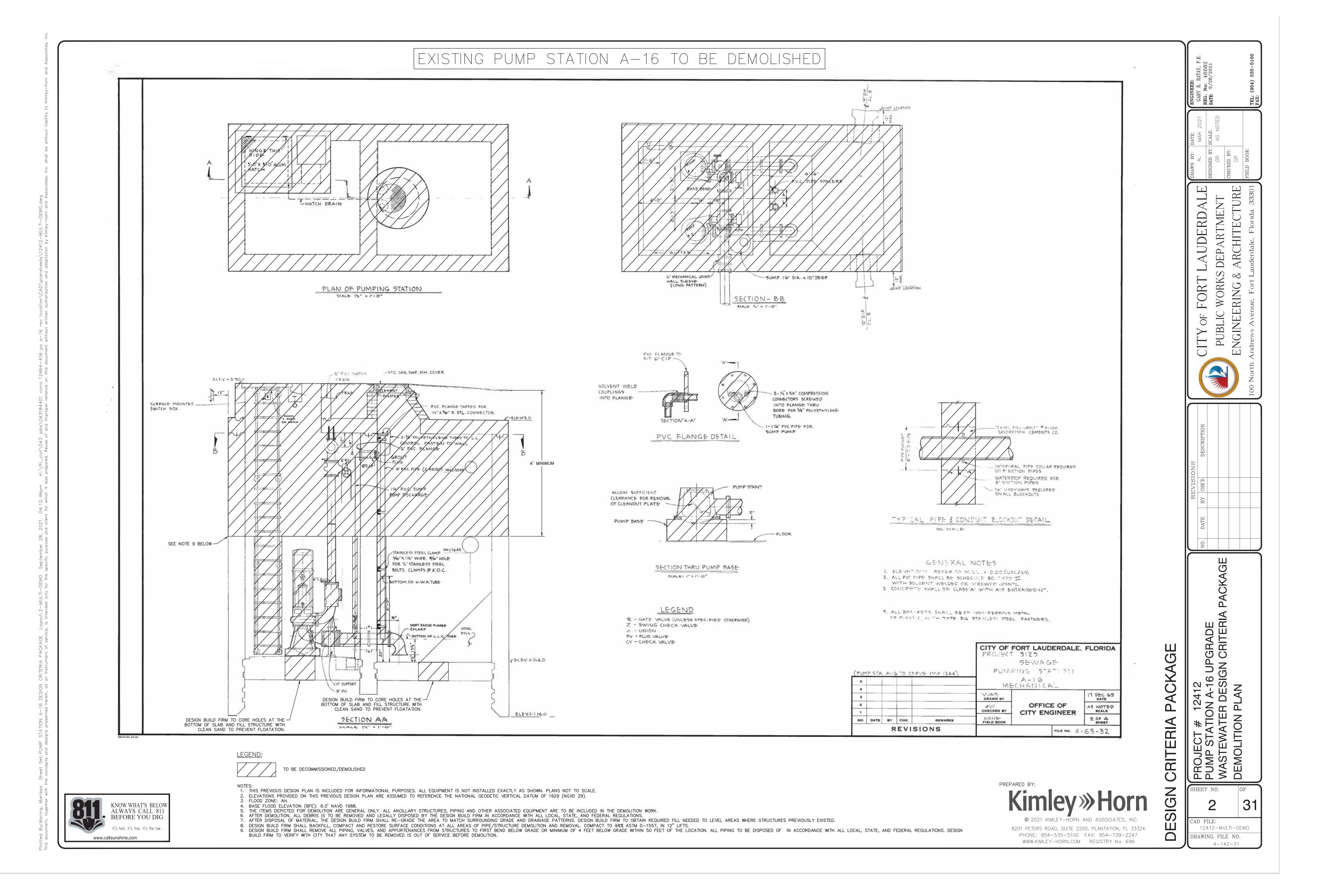
FULLY EXECUTED RECORDED EASEMENT SHALL BE PROVIDED TO THE SCHOOL SAFETY PROGRAM

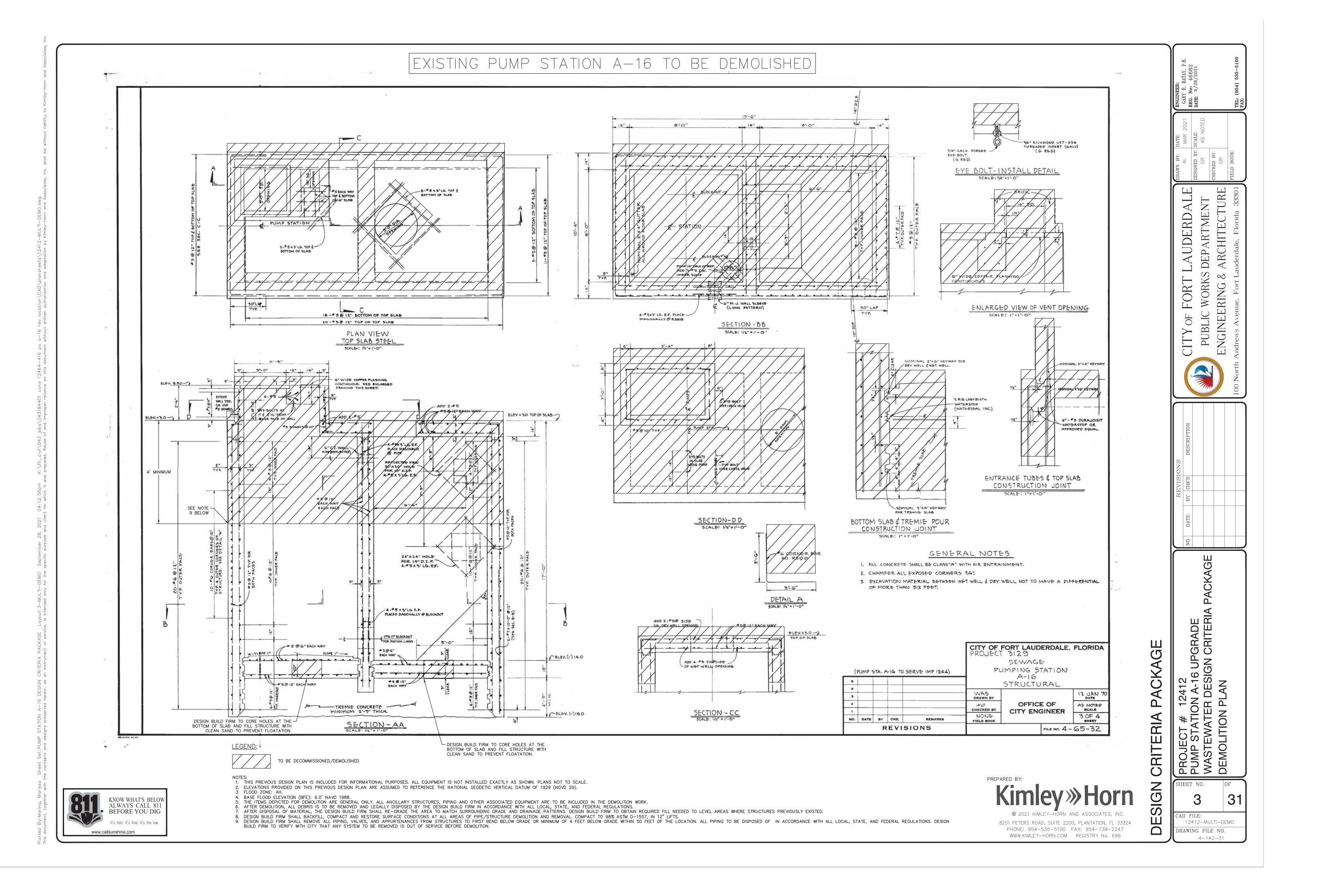
PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT TO THE SCHOOL SAFETY PROGRAM SPECIAL PROJECTS COORDINATOR AT BCTED FOR APPROVAL, ALL OF THE EQUIPMENT SPECIFICATIONS (I.E. SHOP DRAWINGS) FOR ALL MATERIALS PROPOSED FOR THE PROJECT, SEE SECTION 603 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR SUBMITTAL DATA REQUIREMENTS INCLUDED IN THE SUBMITTAL SHALL BE SHOP DRAWINGS FOR GROUND MOUNT AND/OR MAST ARM DETAILS, AS APPLICABLE.

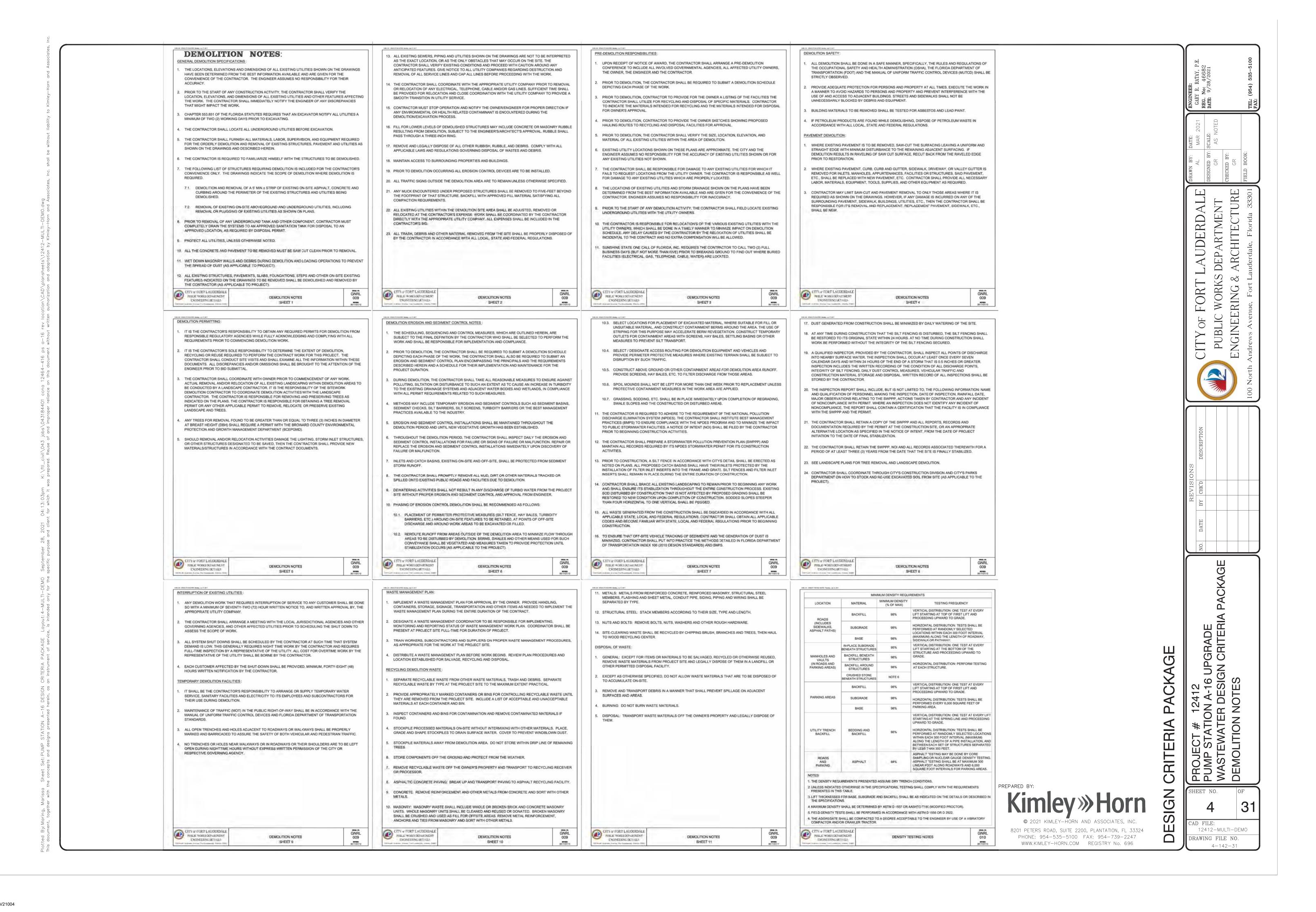
INCLUDING THE INTERIM SIGNING AND PAVEMENT MARKING PLAN. ACTIVATION OF THE FLASHERS

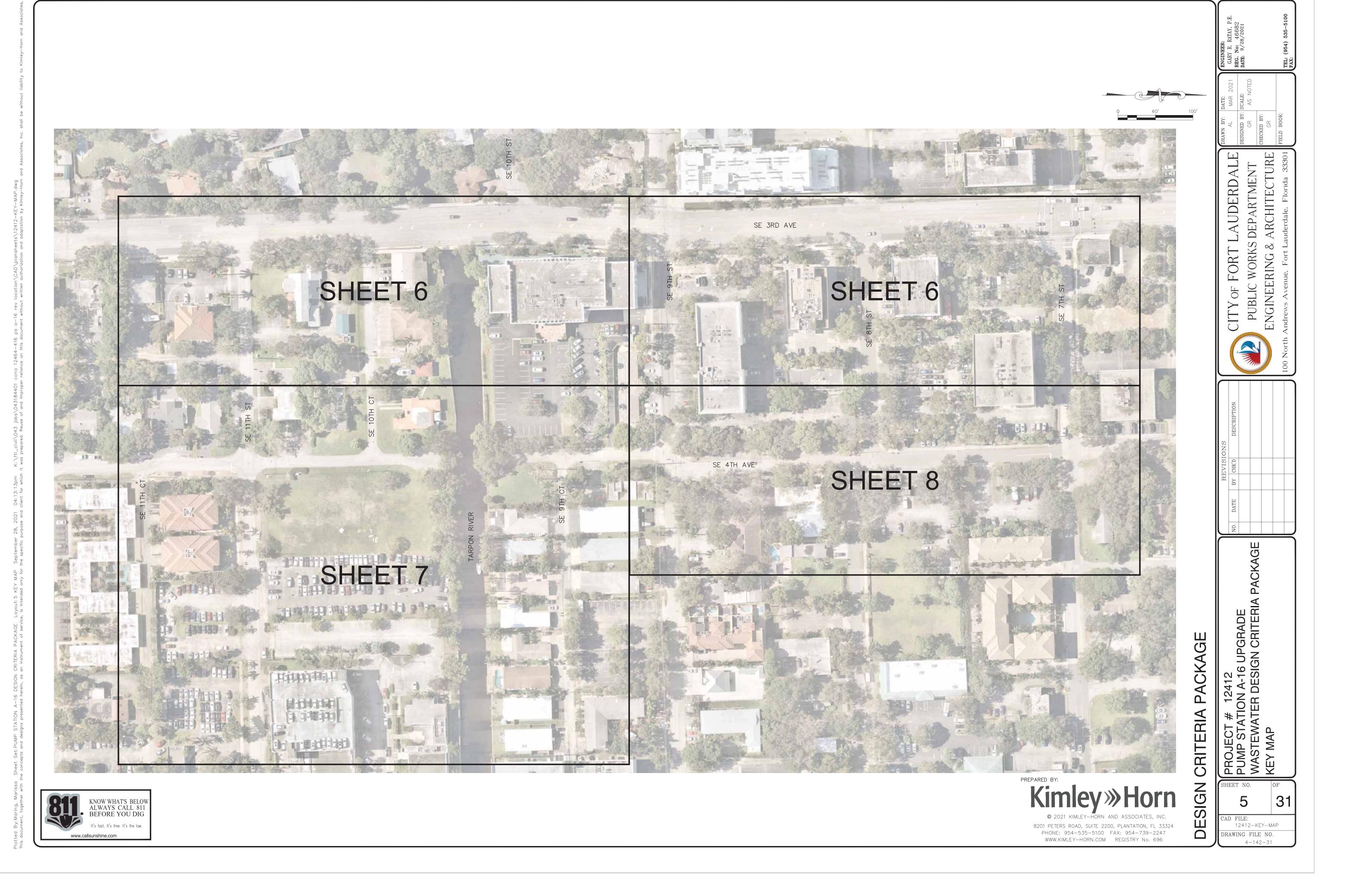
CASE: UDP-V21004 Page 2 of 32

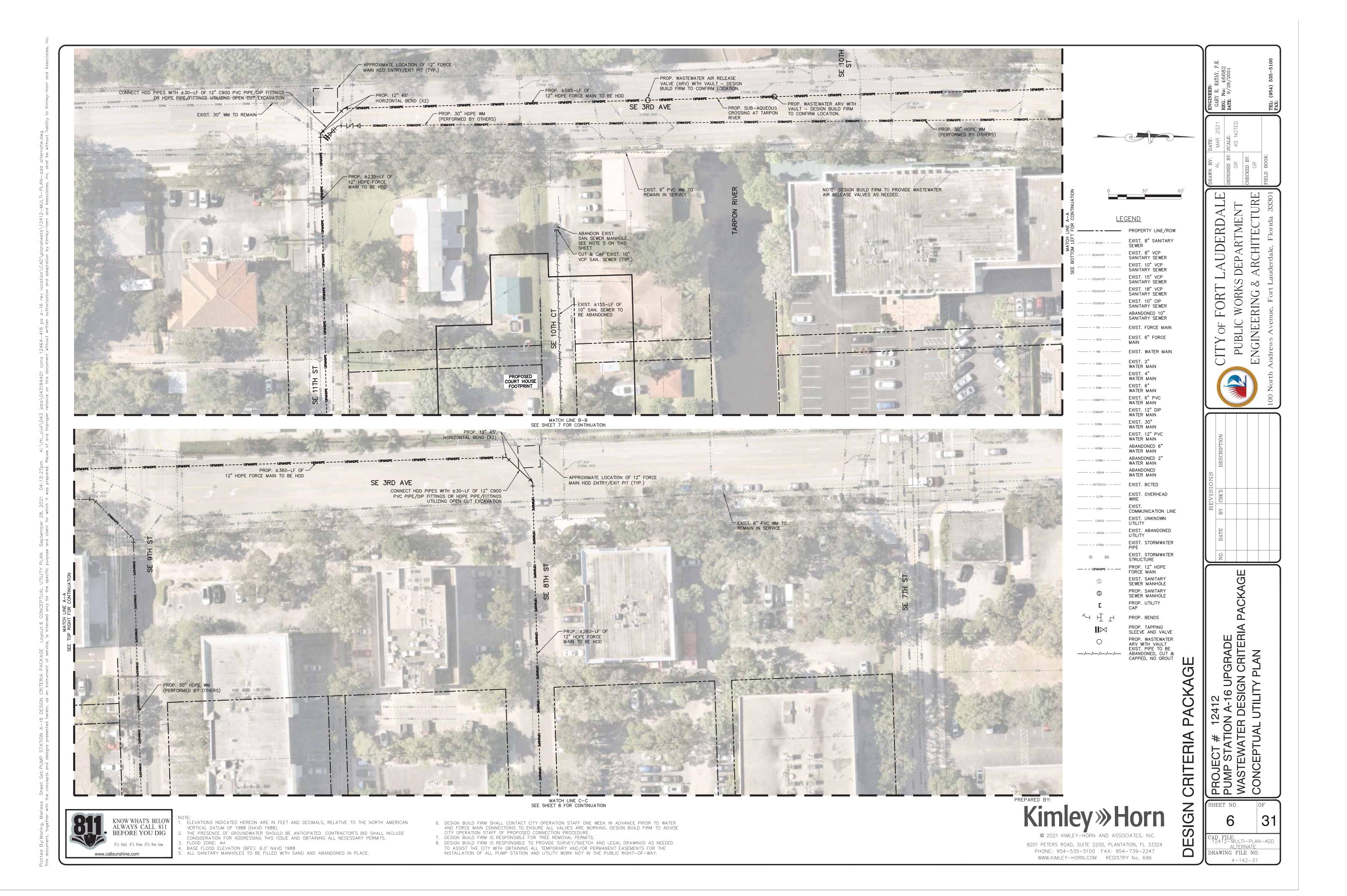
= CORRUGATED METAL PIPE = REINFORCED CONCRETE PIPE = SEWER VALVE = UNABLE TO OBTAIN DATA = BROWARD COUNTY TRAFFIC AND ENGINEERING DEPARTMENT

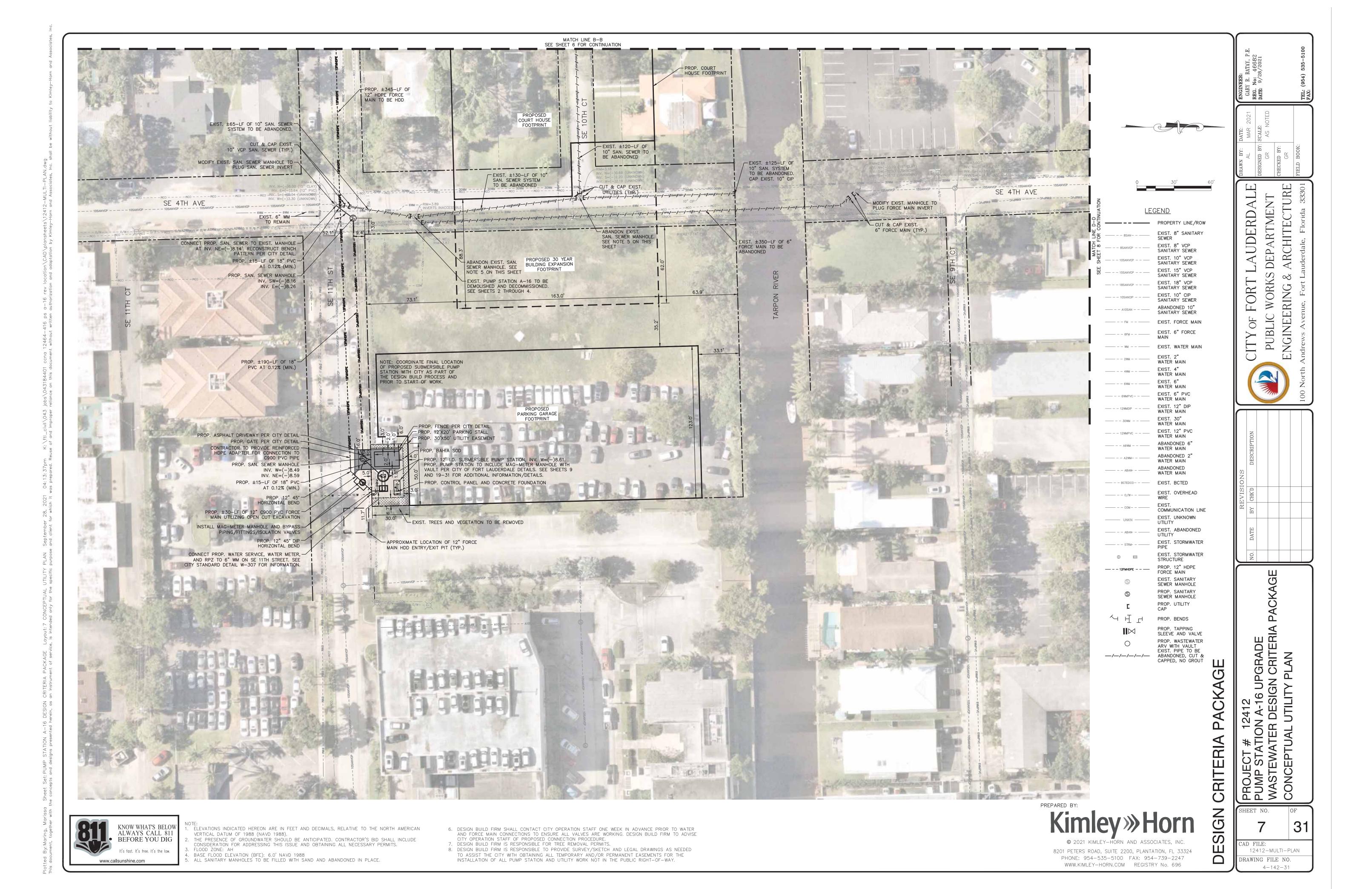












CASE: UDP-V21004 Exhibit 4 Page 8 of 32

<u>LEGEND</u>

EXIST. 8" SANITARY SEWER EXIST. 10" VCP SANITARY SEWER EXIST. 15" VCP SANITARY SEWER EXIST. 18" VCP SANITARY SEWER SANITARY SEWER ABANDONED 10" SANITARY SEWER

------------------------EXIST. WATER MAIN EXIST. 2" WATER MAIN WATER MAIN WATER MAIN

WATER MAIN EXIST. 12" DIP WATER MAIN

WATER MAIN WATER MAIN ABANDONED 6" WATER MAIN ABANDONED 2" WATER MAIN ABANDONED

WATER MAIN ------------------------EXIST. BCTED EXIST. OVERHEAD EXIST.
COMMUNICATION LINE EXIST. UNKNOWN UTILITY

EXIST. STORMWATER STRUCTURE PROP. 12" HDPE FORCE MAIN EXIST. SANITARY SEWER MANHOLE PROP. SANITARY SEWER MANHOLE

PROP. UTILITY CAP PROP. BENDS SLEEVE AND VALVE PROP. WASTEWATER ARV WITH VAULT
EXIST. PIPE TO BE
ABANDONED, CUT &
CAPPED, NO GROUT

© 2021 KIMLEY—HORN AND ASSOCIATES, INC.

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324

PHONE: 954-535-5100 FAX: 954-739-2247

WWW.KIMLEY-HORN.COM REGISTRY No. 696

Q

ALTERNATE DRAWING FILE NO.

KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG It's fast. It's free. It's the law.

ELEVATIONS INDICATED HEREON ARE IN FEET AND DECIMALS, RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988). THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE

CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

- 4. BASE FLOOD ELEVATION (BFE): 6.0' NAVD 1988 5. ALL SANITARY MANHOLES TO BE FILLED WITH SAND AND ABANDONED IN PLACE.
- 6. DESIGN BUILD FIRM SHALL CONTACT CITY OPERATION STAFF ONE WEEK IN ADVANCE PRIOR TO WATER AND FORCE MAIN CONNECTIONS TO ENSURE ALL VALVES ARE WORKING. DESIGN BUILD FIRM TO ADVISE CITY OPERATION STAFF OF PROPOSED CONNECTION PROCEDURE.

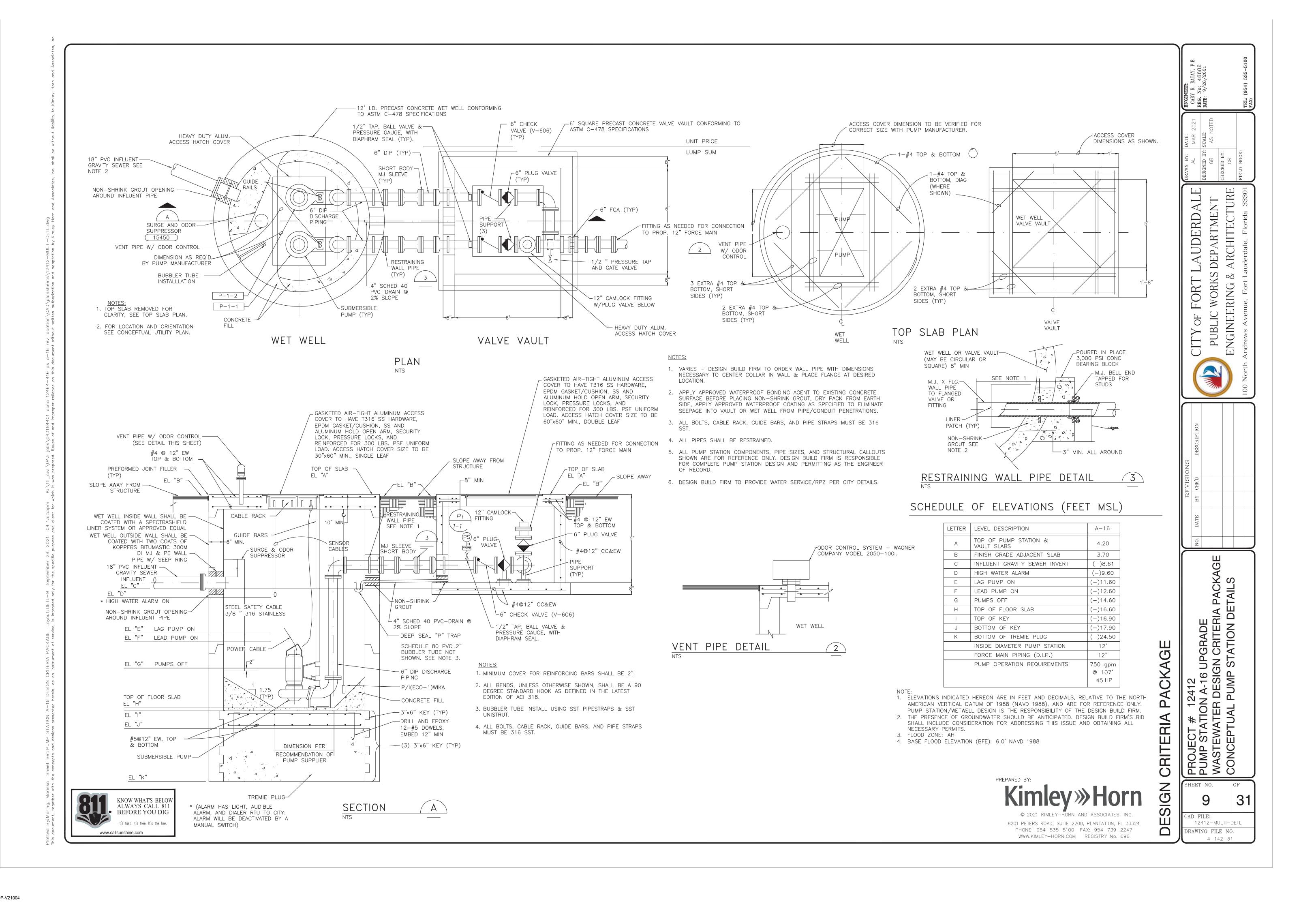
 7. DESIGN BUILD FIRM IS RESPONSIBLE FOR TREE REMOVAL PERMITS.
- TO ASSIST THE CITY WITH OBTAINING ALL TEMPORARY AND/OR PERMANENT EASEMENTS FOR THE

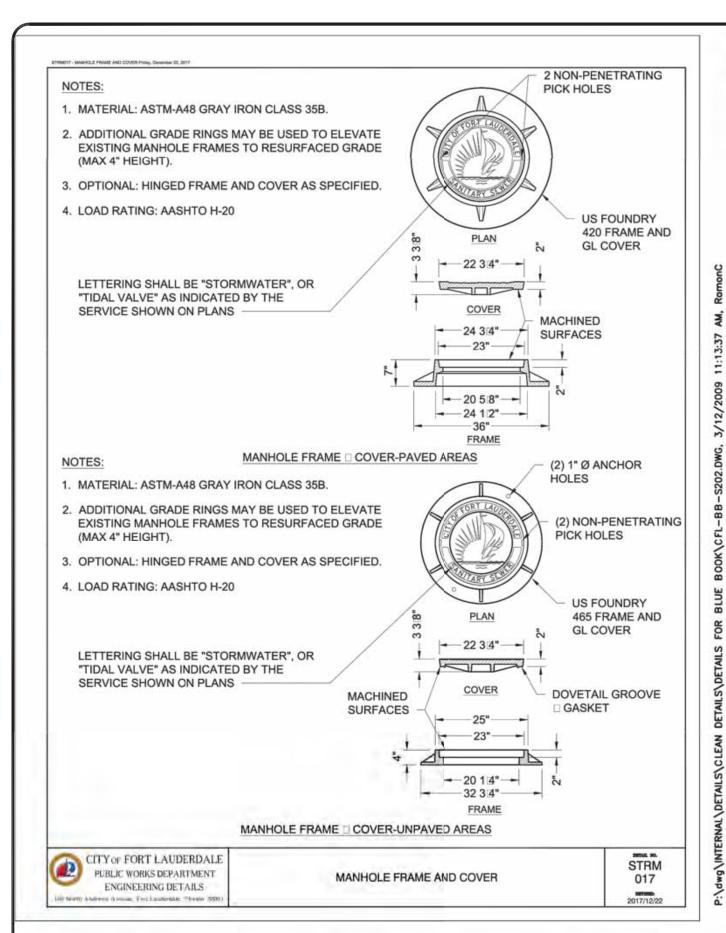
8. DESIGN BUILD FIRM IS RESPONSIBLE TO PROVIDE SURVEY/SKETCH AND LEGAL DRAWINGS AS NEEDED INSTALLATION OF ALL PUMP STATION AND UTILITY WORK NOT IN THE PUBLIC RIGHT-OF-WAY.

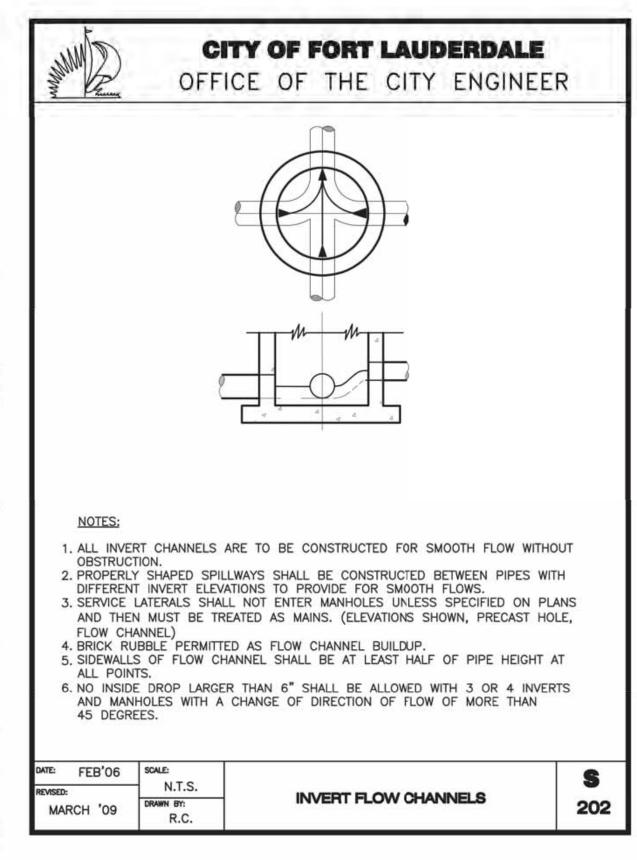
CAUDERDALE
S DEPARTMENT
& ARCHITECTURE
Lauderdale, Florida 33301 PROPERTY LINE/ROW

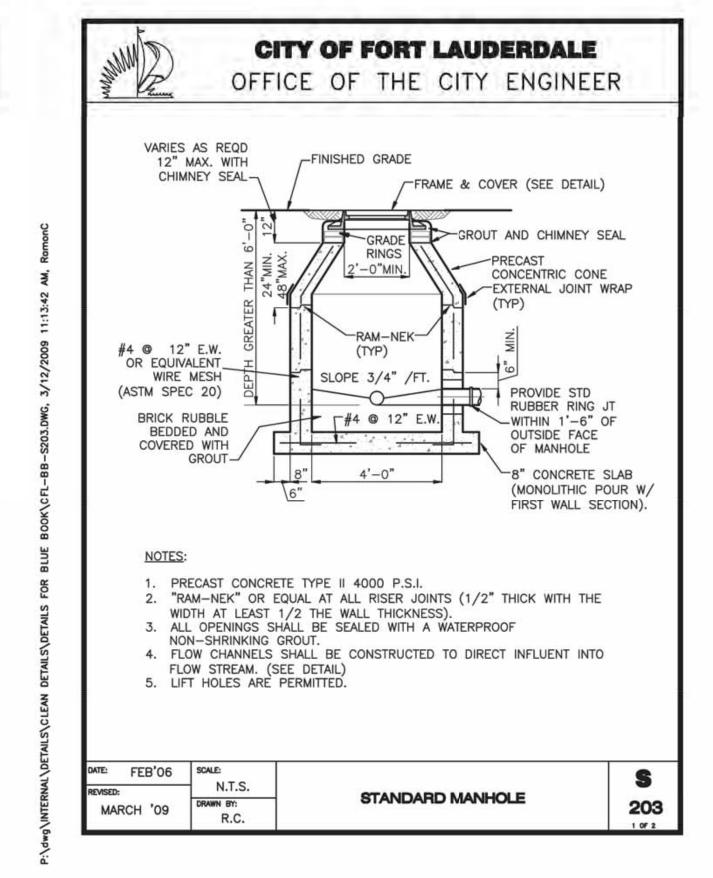
PROJECT # 12412 PUMP STATION A-16 UPGRADE WASTEWATER DESIGN CRITERIA CONCEPTUAL

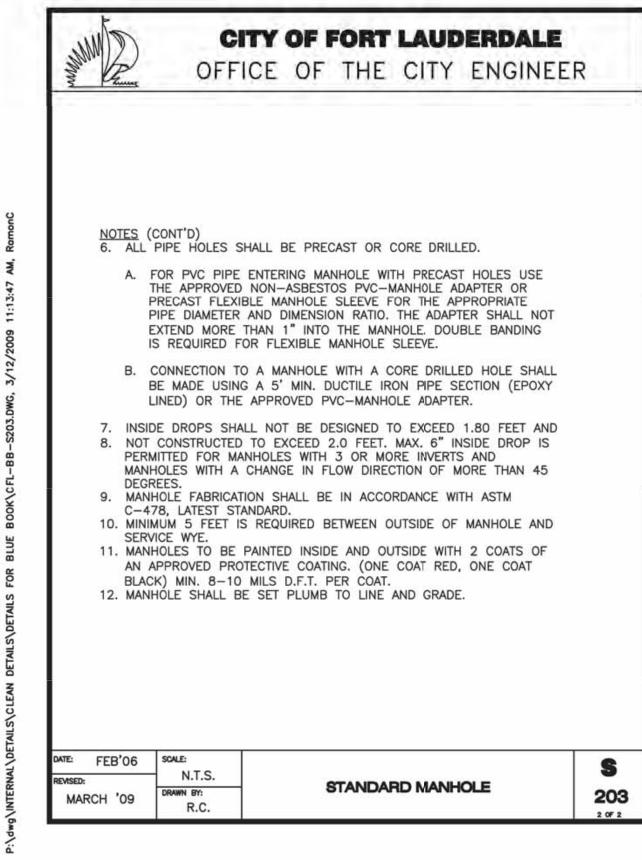
CAD FILE: 12412-MULTI-PLAN-ADD 4-142-31

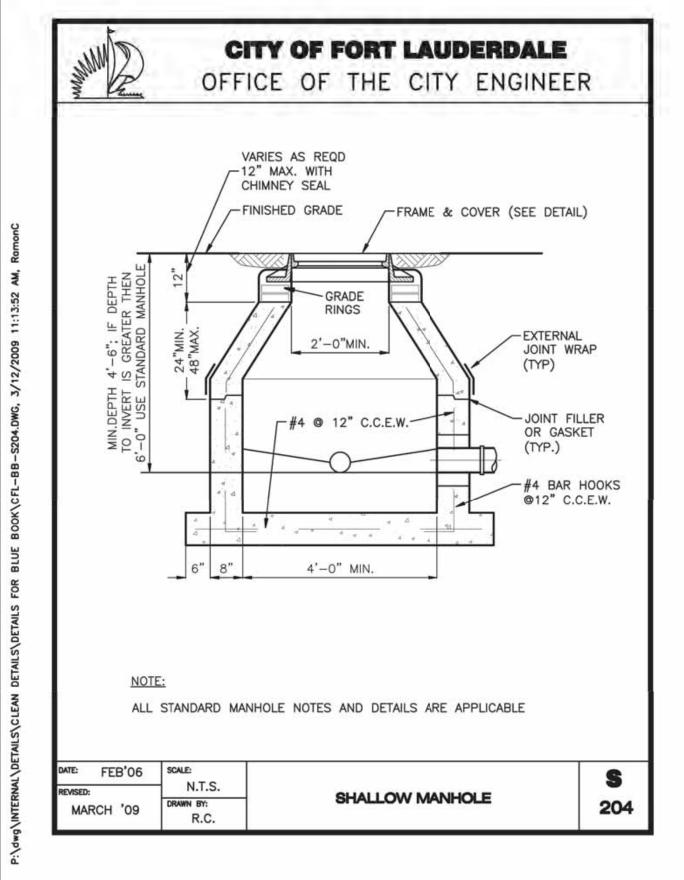


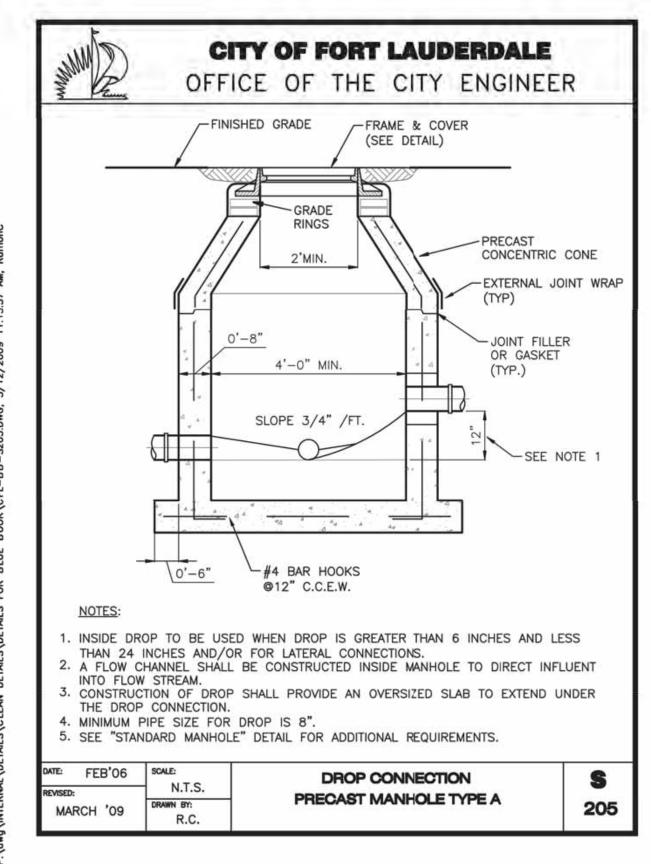


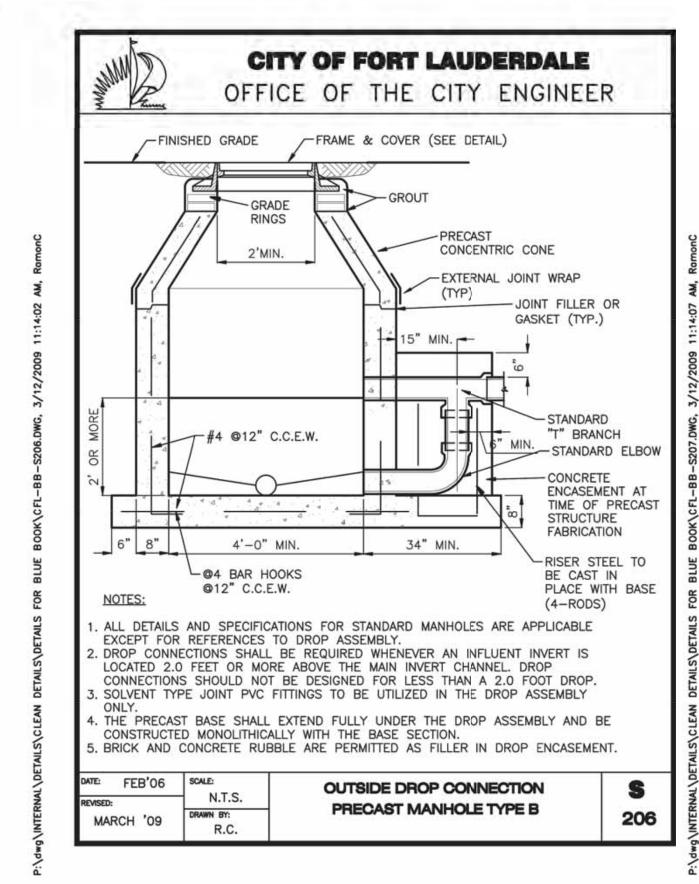


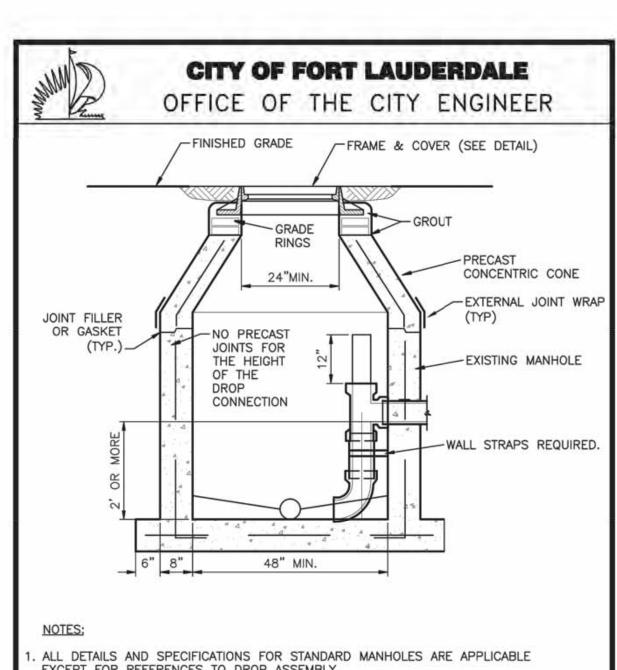












EXCEPT FOR REFERENCES TO DROP ASSEMBLY. INSIDE DROP CONNECTION TO BE USED ONLY FOR A SINGLE DROP CONNECTION

DROP CONNECTIONS SHALL BE REQUIRED WHENEVER AN INFLUENT INVERT IS LOCATED 2.0 FEET OR MORE ABOVE THE MAIN INVERT CHANNEL. DROP CONNECTIONS SHOULD NOT BE DESIGNED FOR LESS THAN A 2.4 FOOT DROP. . SOLVENT TYPE JOINT PVC FITTINGS TO BE UTILIZED IN THE DROP ASSEMBLY

TO AN EXISTING MANHOLE.

FEB'06 INSIDE DROP CONNECTION N.T.S. EXISTING MANHOLE C 207 MARCH '09 R.C.

KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG It's fast. It's free. It's the lav

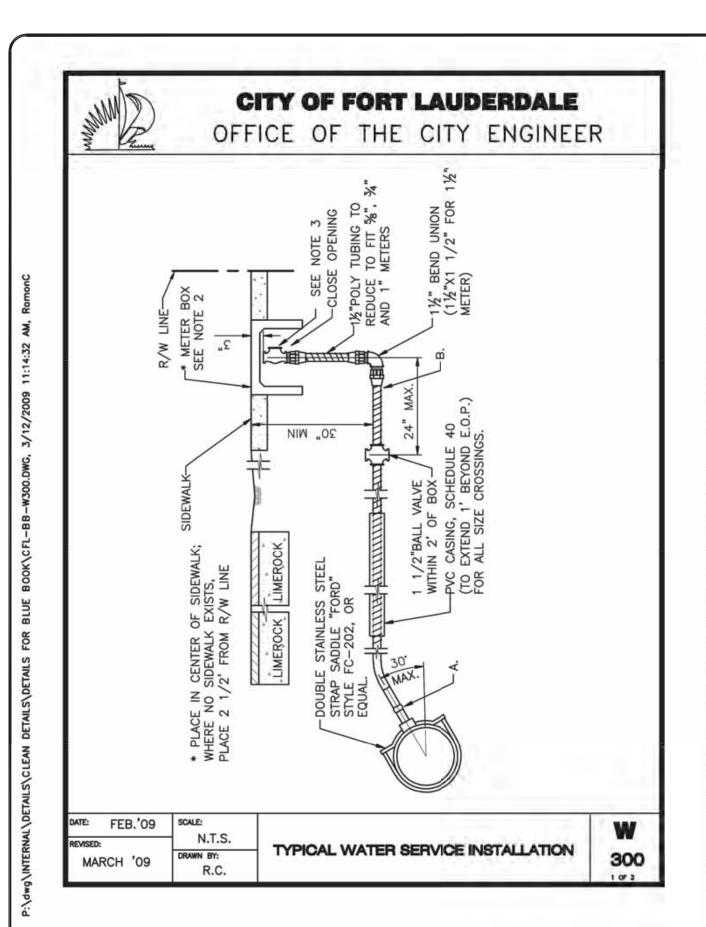
© 2021 KIMLEY-HORN AND ASSOCIATES, INC.

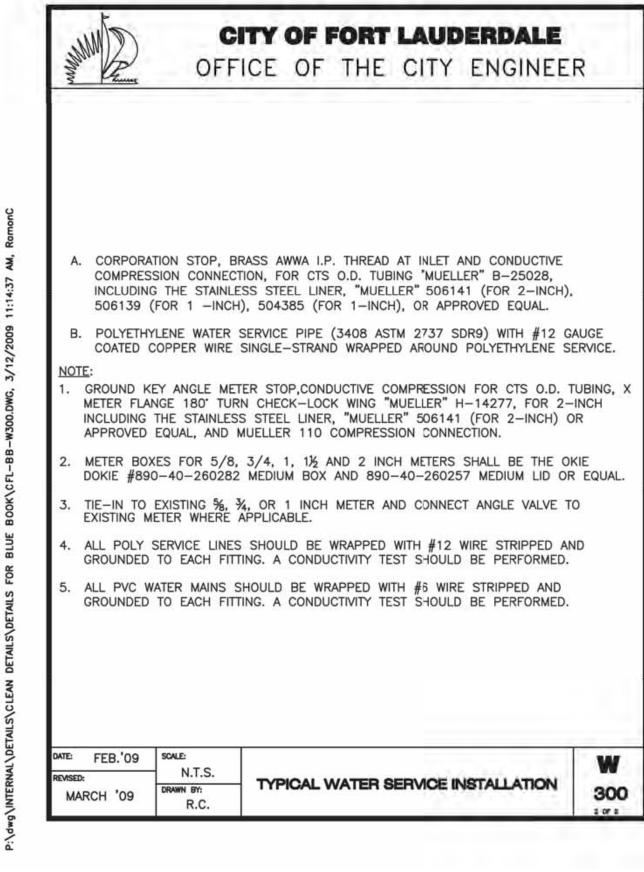
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM REGISTRY No. 696

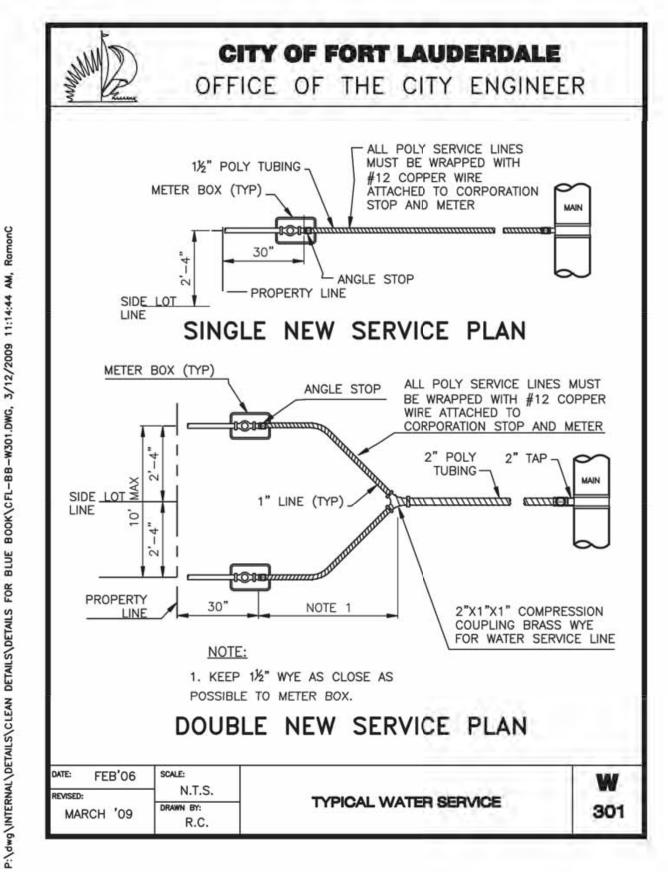
(D Q () 2412 N A-16 UP(DESIGN (TAILS ECT # 124 STATION / TEWATER D IDARD DET/ RIA

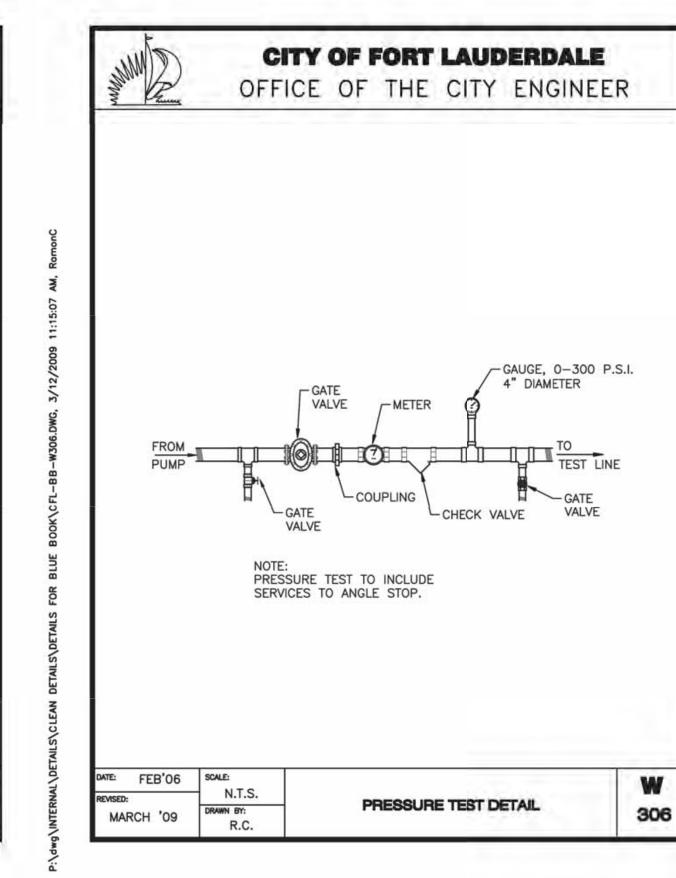
CAD FILE:

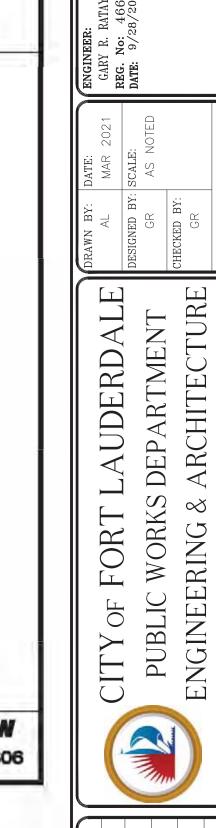
12412-MULTI-DETL DRAWING FILE NO. 4-142-31











NO. DATE BY CHK'D DESCRIPTION

JPGRADE N CRITERIA PACKAGE

PROJECT # 12412
PUMP STATION A-16 UPGRADE
WASTEWATER DESIGN CRITERIA PACATANDARD DETAILS

GIN CHILEHIA F

EHEET NO. OF

11

CAD FILE:

CAD FILE:
12412-MULTI-DETL

DRAWING FILE NO.
4-142-31

OFFICE OF THE CITY ENGINEER WATTS 909 OR EQUAL -STD. STAINLESS STL. U-BOLT. WRAP PIPE REDUCED PRESSURE BACKFLOW-W/ NEOPRENE AT "U" PREVENTION DEVICE AND BALL BOLTS (TYP.) -6" PIPE NIPPLE 1" VALVE W/ 1" CAM LOCK 2"x 2"x 1/4" ALUMINUM ANGLE (TYP.) -3/4" HOSE BIB 1" TYPE "K' COPPER PIPE~ -6"x 3"x 3/8" THICK 18" MAX ALUMINUM PLATE (TYP.) COVER SLAB - 3/8" STAINLESS STL. WEDGE TYPE CONC. EXPANSION ANCHOR (2 REQD.) L1 1/2" PVC BALL VALVE PIPÉ SLEEVE W/ VALVE BÓX └1 1/2" X 1" BUSHING 1 1/2" POLYTUBING FEB'06 SCALE: REDUCED PRESSURE BACKFLOW N.T.S. PREVENTER WITH HOSE CONNECTION 307 MARCH '09 R.C. FOR LIFT STATION

CITY OF FORT LAUDERDALE

KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG

It's fast. It's free. It's the law.

www.callsunshine.com

REPARED BY:

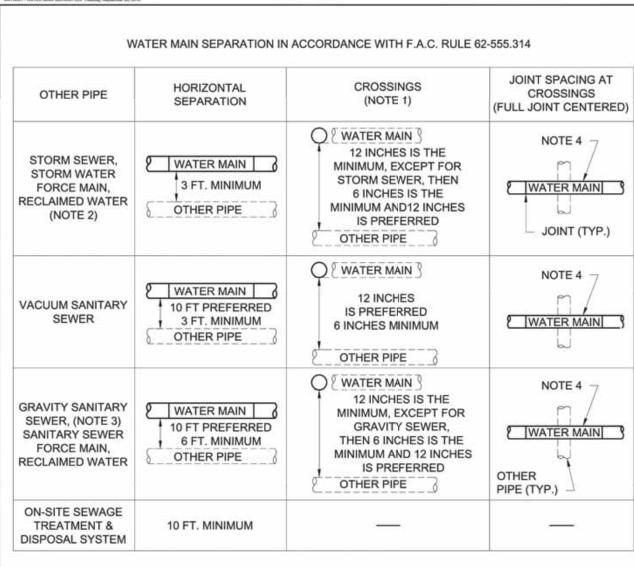
Kimley Horn and Associates, Inc.

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324

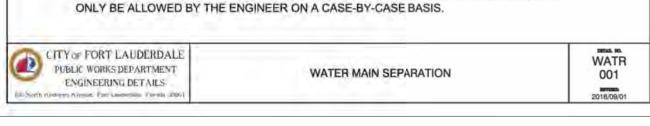
PHONE: 954-535-5100 FAX: 954-739-2247

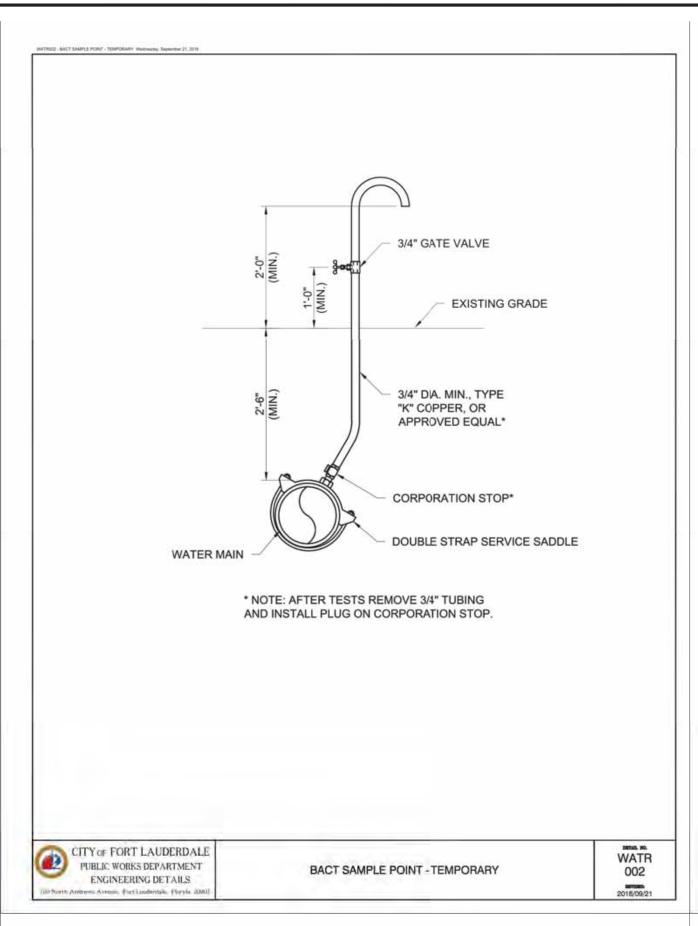
WWW.KIMLEY-HORN.COM REGISTRY No. 696

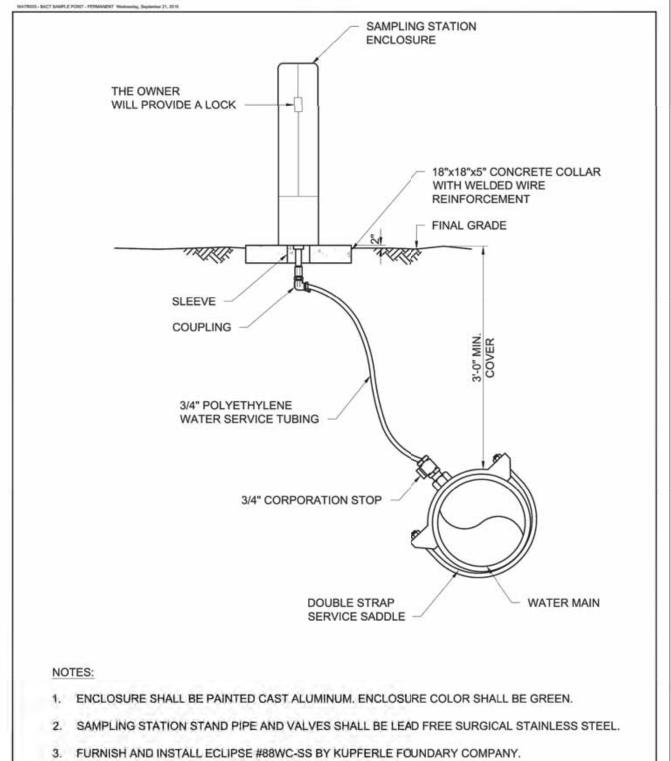
CASE: UDP-V21004 Exhibit 4 Page 12 of 32



- 1. WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
- RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- 3. 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
- 4. ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPE SO THAT THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE, ALTERNATE JOINT LOCATIONS ALLOWED UNDER FAC 62-555.314 WILL







BACT SAMPLE POINT - PERMANENT

WATR

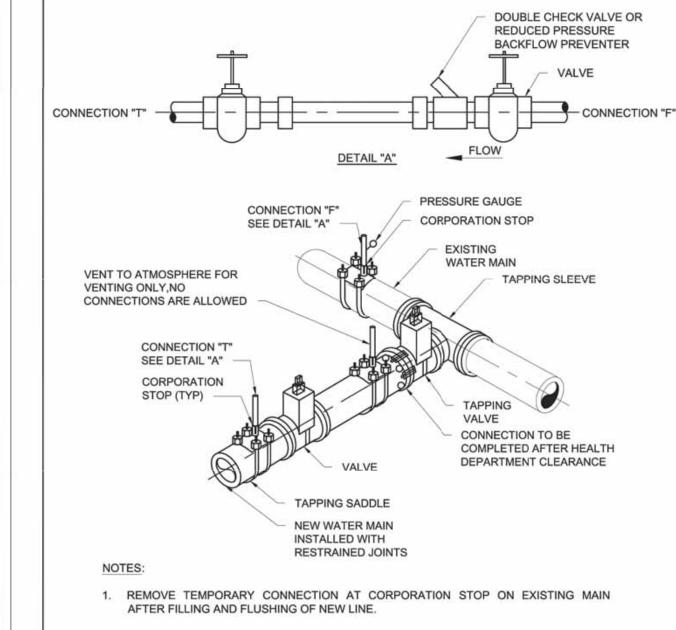
003

2016/09/21

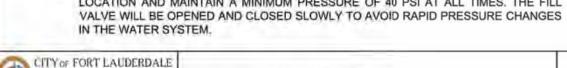
CITY OF FORT LAUDERDALE
PUBLIC WORKS DEPARTMENT

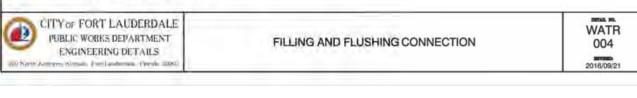
PUBLIC WORKS DEPARTMENT

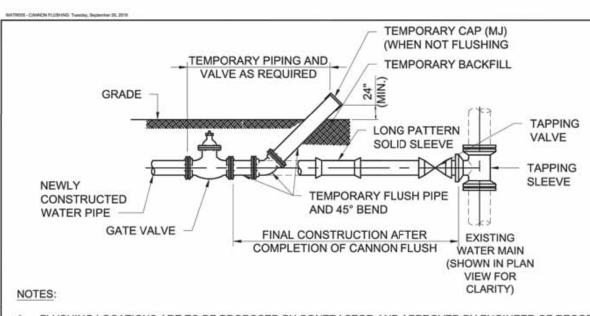
ENGINEERING DETAILS



- 2. DO NOT REMOVE TEMPORARY CONNECTION AT CORPORATION STOP ON NEW MAIN UNTIL ALL TESTING HAS BEEN CLEARED BY HEALTH DEPARTMENT.
- 3. CLOSE CORPORATION STOPS AND PLUG/CAP WITH LEAD-FREE BRASS FITTINGS
- AFTER SAMPLING IS COMPLETED. 4. CONTRACTOR WILL INSTALL A PRESSURE GAUGE AT OR NEAR THE FILL AND FLUSH LOCATION AND MAINTAIN A MINIMUM PRESSURE OF 40 PSI AT ALL TIMES. THE FILL







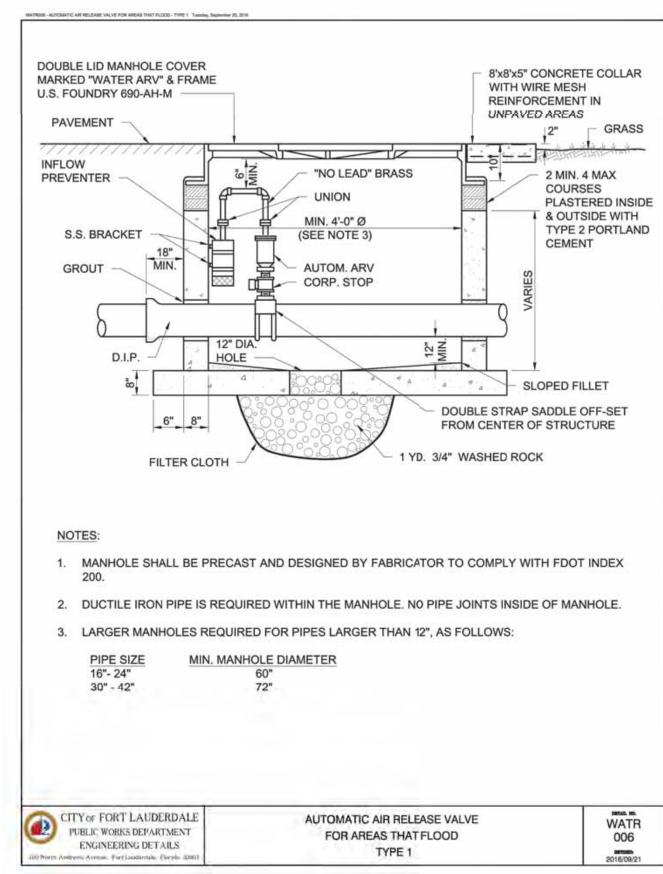
- . FLUSHING LOCATIONS ARE TO BE PROPOSED BY CONTRACTOR AND APPROVED BY ENGINEER OF RECORD.
- . UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAINS SHALL BE CANNON FLUSHED TO REMOVE DIRT AND ANY OTHER FOREIGN MATTER.
- INSTALL A TEMPORARY 45° BEND, VALVE AND ASSOCIATED TEMPORARY PIPING AS SHOWN TO DIRECT THE FLUSHING WATER AWAY FROM THE IMMEDIATE WORK AREA AND EXERCISE DUE CARE SO AS TO ENSURE THAT THE WATER USED IN FLUSHING DOES NOT CAUSE A NUISANCE OR INFLICT PROPERTY DAMAGE.
- BENDS AND PIPING SHALL BE THE SAME SIZE OR LARGER AS THE LINE BEING FLUSHED.
- PRIOR TO THE ACTUAL LINE FLUSHING OPERATION THE CONTRACTOR SHALL PROPERLY NOTIFY OWNER'S INSPECTOR OF SUCH INTENDED WATER USE.
- 6. NO EXISTING VALVES SHALL BE OPERATED, EXCEPT BY AUTHORIZED OWNER PERSONNEL.
- FLUSHING SHALL NOT BE ACCOMPLISHED WITHOUT THE ACTUAL PRESENCE OF THE OWNER'S INSPECTOR. AFTER THE LINE UNDER CONSTRUCTION HAS BEEN SUCCESSFULLY FLUSHED, THE CONTRACTOR SHALL REMOVE THE TEMPORARY PIPING ARRANGEMENT AND PROCEED WITH THE REMAINING CONSTRUCTION AS
- 9. ALL PIPING SHALL BE RESTRAINED.
- 10. CONTRACTOR WILL INSTALL A PRESSURE GAUGE AT OR NEAR THE FILL AND FLUSH LOCATION AND MAINTAIN A MINIMUM PRESSURE OF 40 PSI AT ALL TIMES. THE FILL VALVE WILL BE OPENED AND CLOSED SLOWLY TO AVOID RAPID PRESSURE CHANGES IN THE WATER SYSTEM.
- 1. CONTRACTOR IS CAUTIONED THAT GOVERNING AGENCIES OR UTILITIES MAY HAVE REGULATIONS LIMITING OR PROHIBITING DISCHARGE INTO SEWERS, SURFACE WATERS, CANALS, DITCHES AND OTHER CONVEYANCES/RETENTION AREAS. ALL COMPLIANCE WITH GOVERNING AGENCY REQUIREMENTS (INCLUDING PERMITTING, IF REQUIRED) IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 12. CANNON FLUSHING TO PROCEED AFTER HEALTH DEPARTMENT CLEARANCE IS RECEIVED.

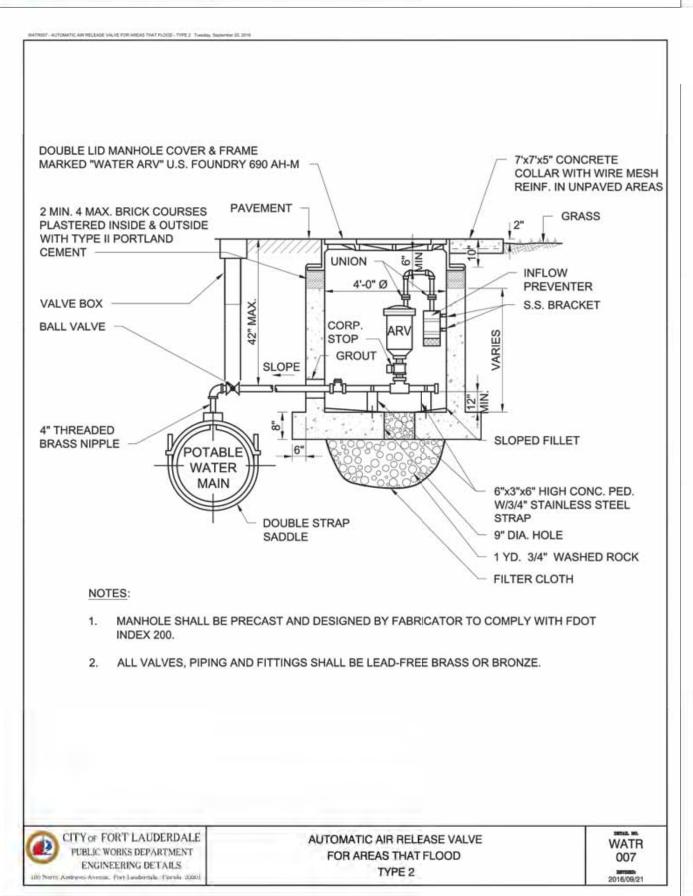
FLUSHING CONNECTION NOT TO SCALE

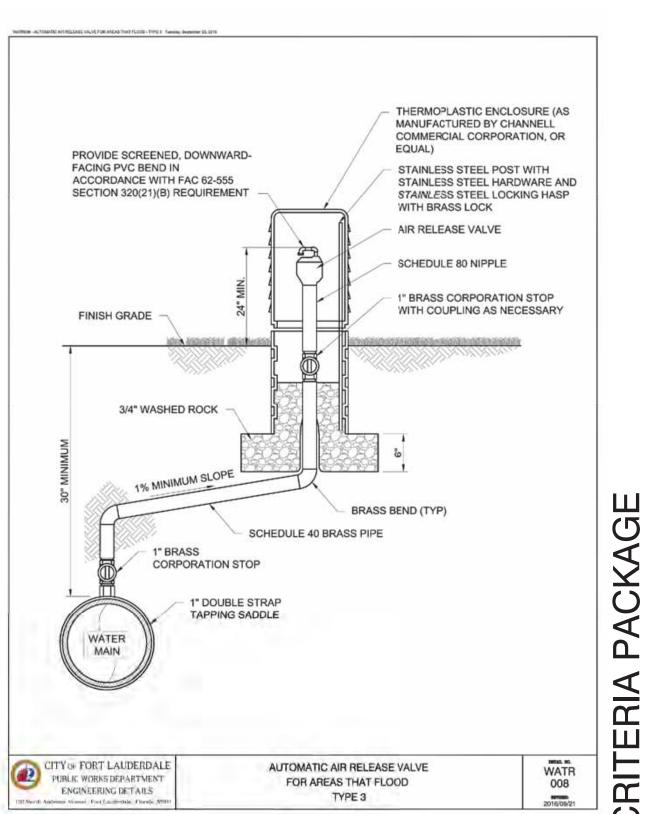
CITY OF FORT LAUDERDAL PUBLIC WORKS DEPARTMENT ENGINEERING DETAILS

CANNON FLUSHING

WATR 005







KNOW WHAT'S BELOV ALWAYS CALL 811 BEFORE YOU DIG t's fast. It's free. It's the law

© 2021 KIMLEY-HORN AND ASSOCIATES, INC.

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM REGISTRY No. 696

12 -16 UP :SIGN 241 V A-DE

(7)

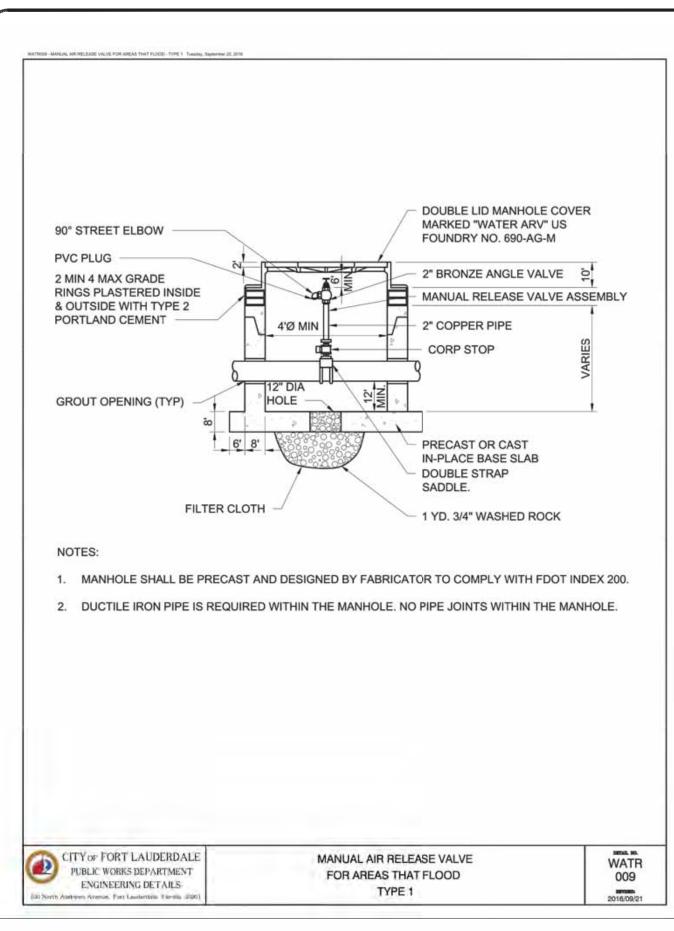
(J)

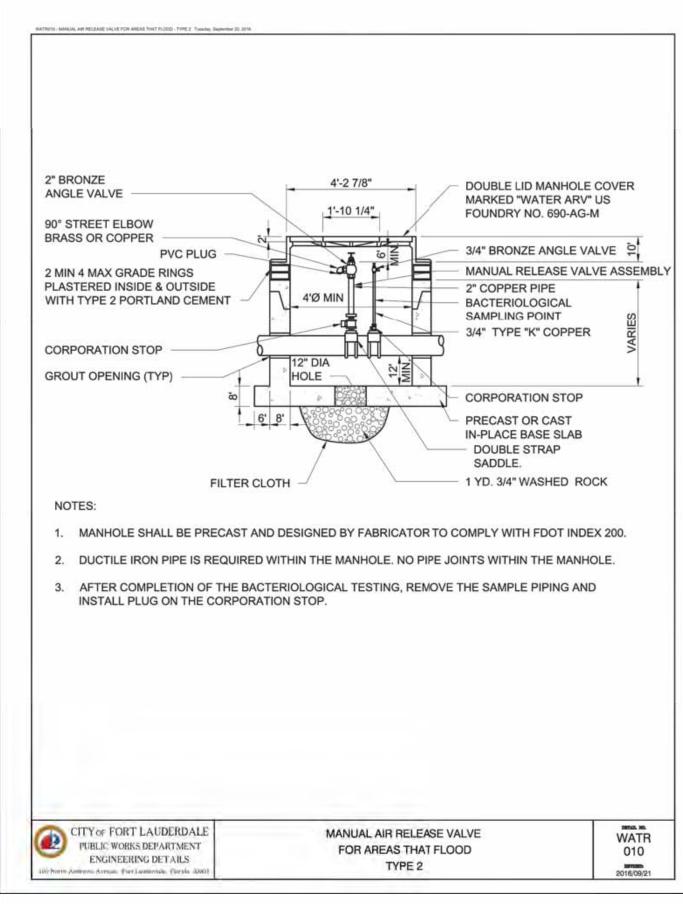
CAD FILE: 12412-MULTI-DETL

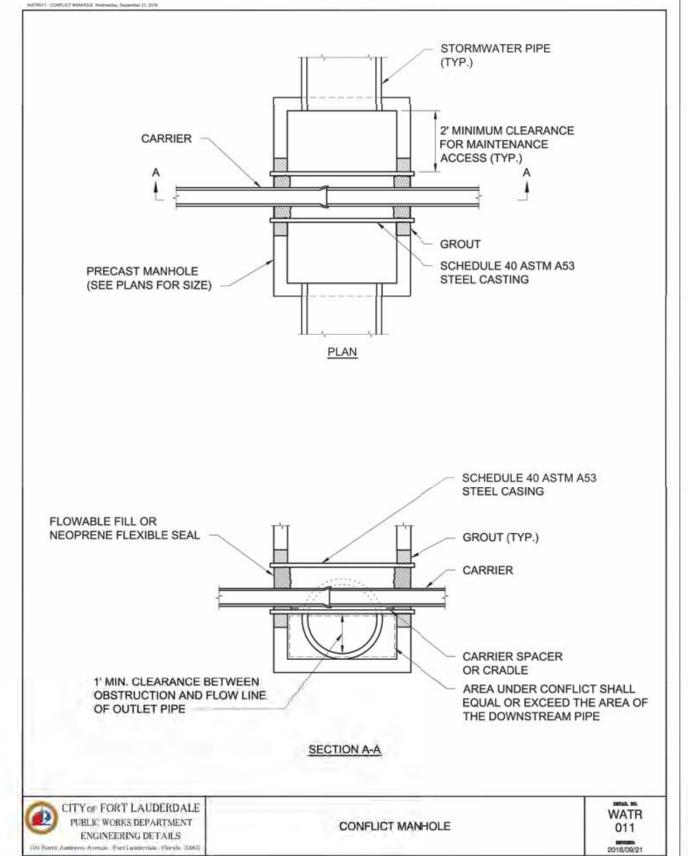
4-142-31

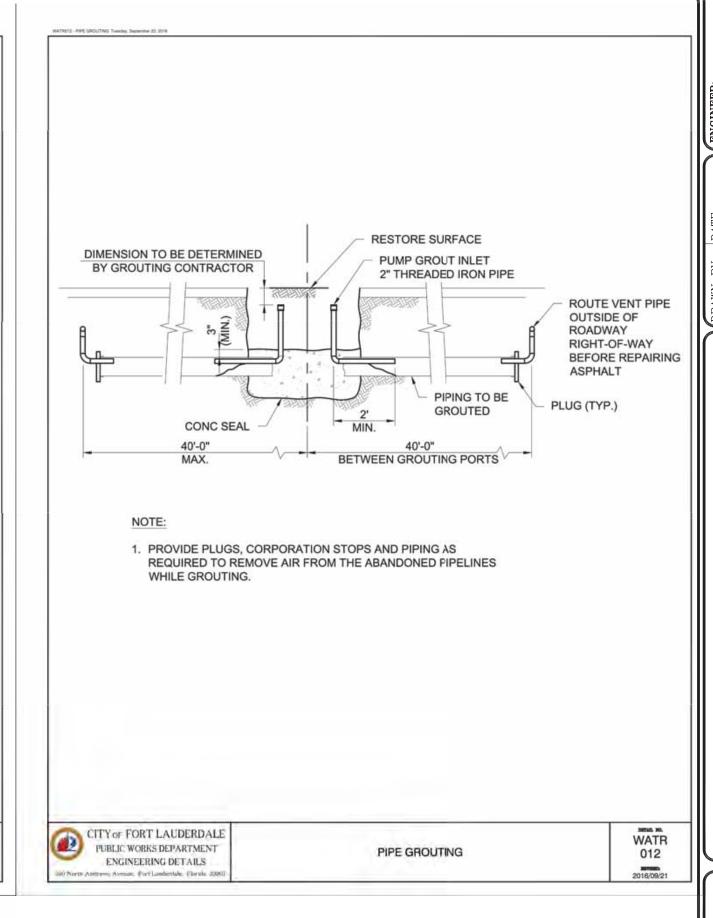
DRAWING FILE NO.

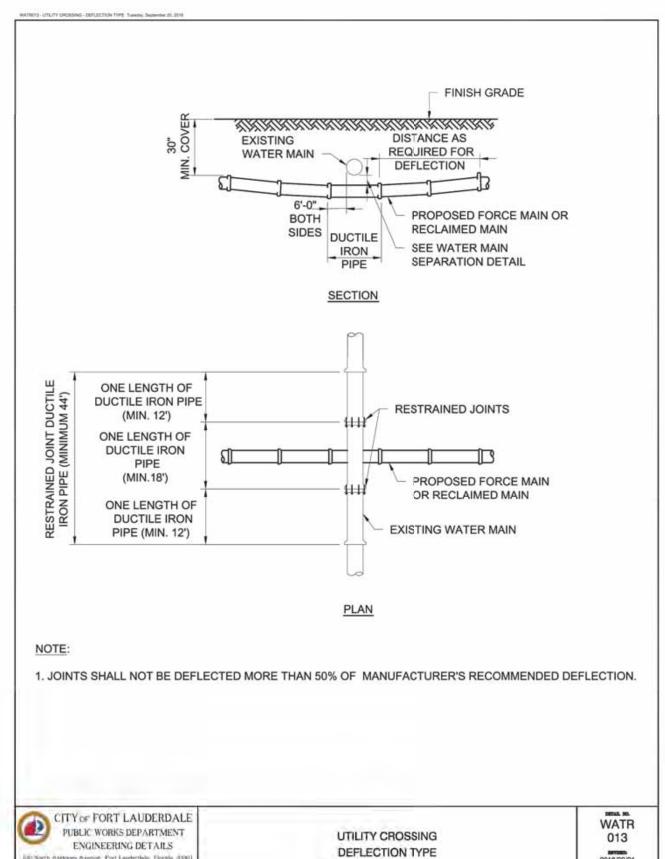
CASE: UDP-V21004 Page 13 of 32

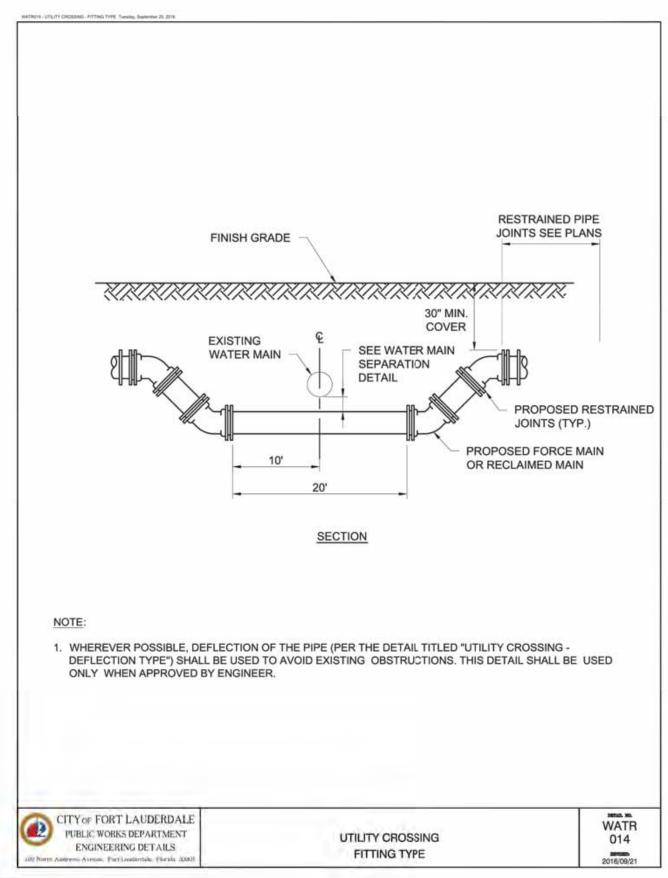


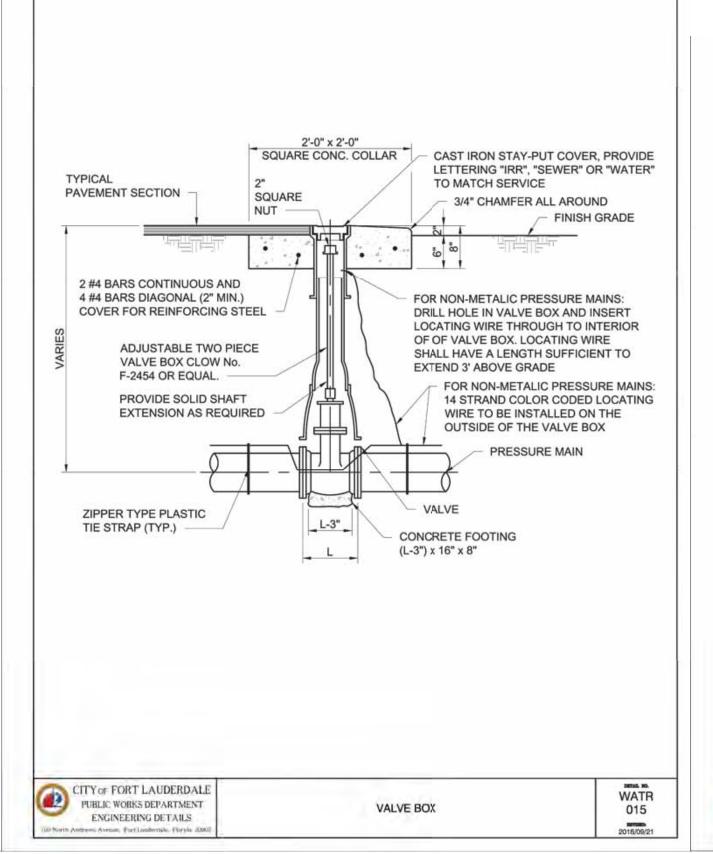




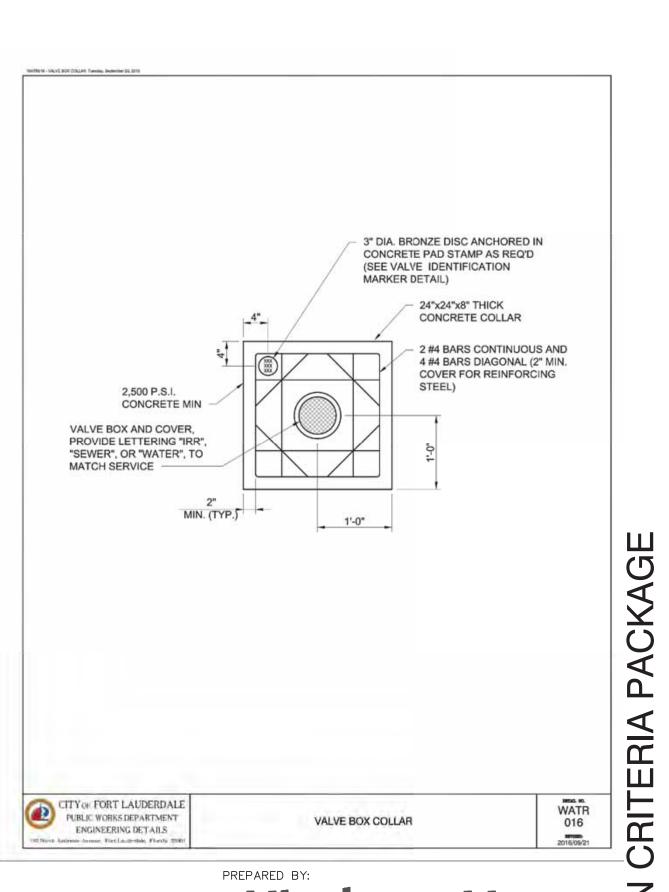








NATROYS - VALVE BOX Tuesday, Deplender 20, 2011





PROJECT # 12412
PUMP STATION A-16 UPGRADE
WASTEWATER DESIGN CRITERIA PA
STANDARD DETAILS

Q

HEET NO. OF

13 31

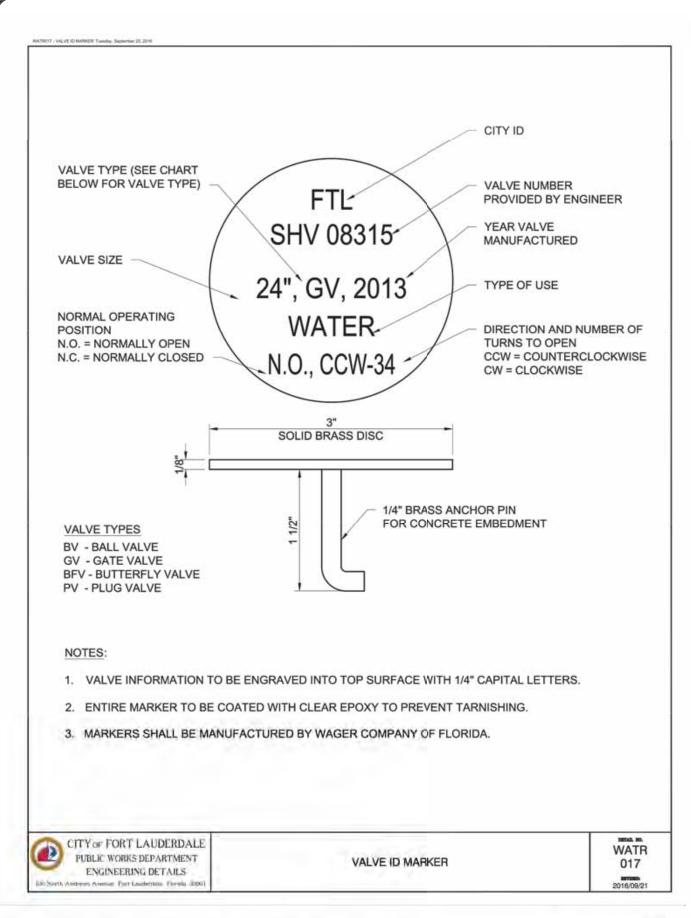
AD FILE:

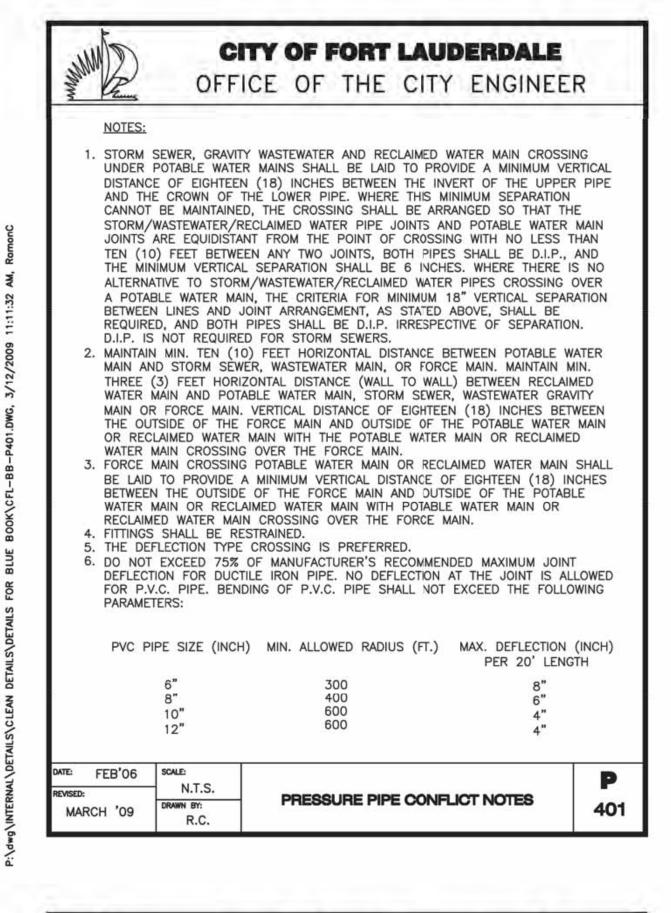
CAD FILE: 12412-MULTI-DETL DRAWING FILE NO. 4-142-31

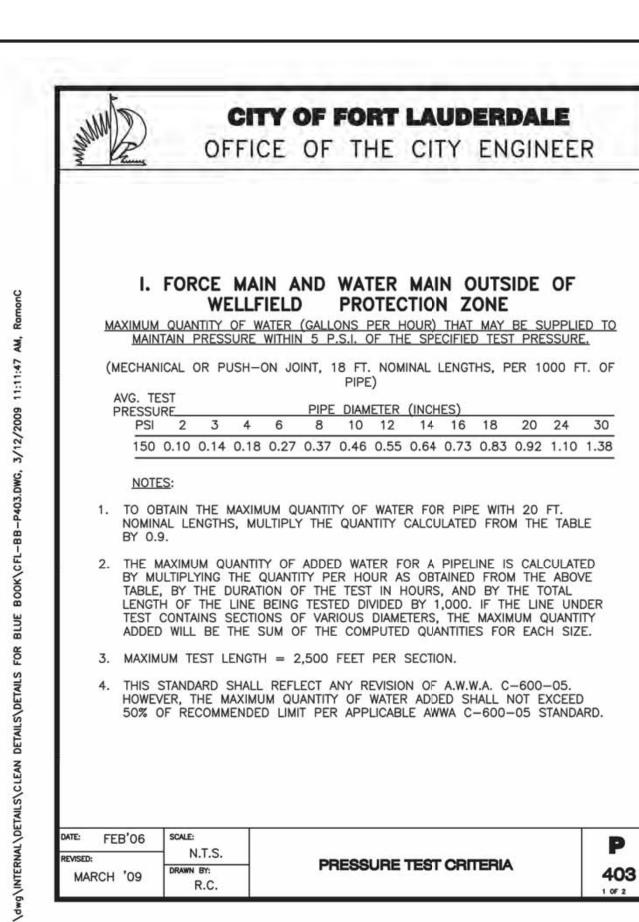
KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG

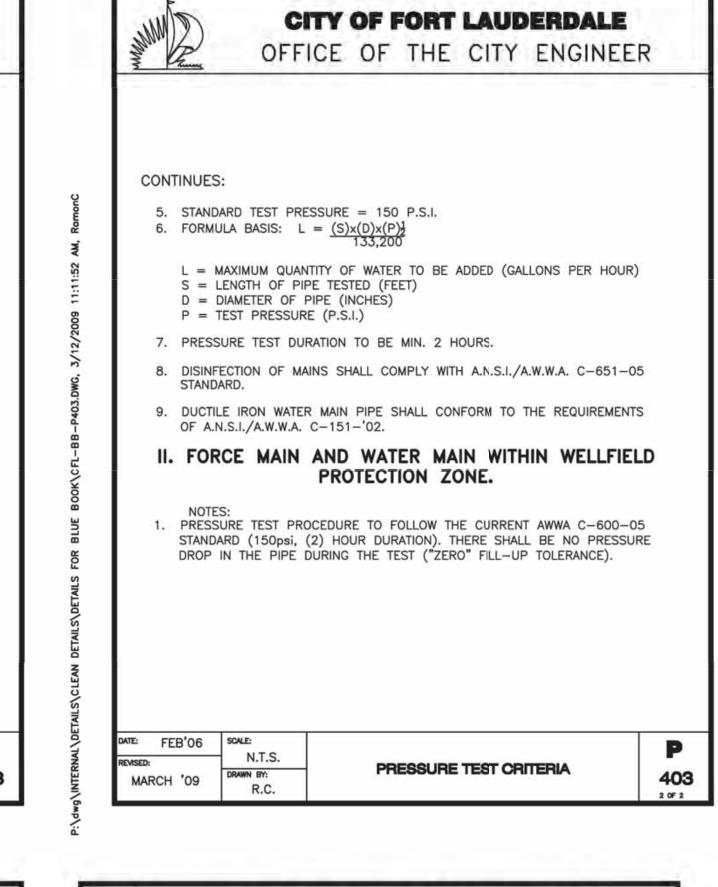
It's fast. It's free. It's the law.

www.callsunshine.com

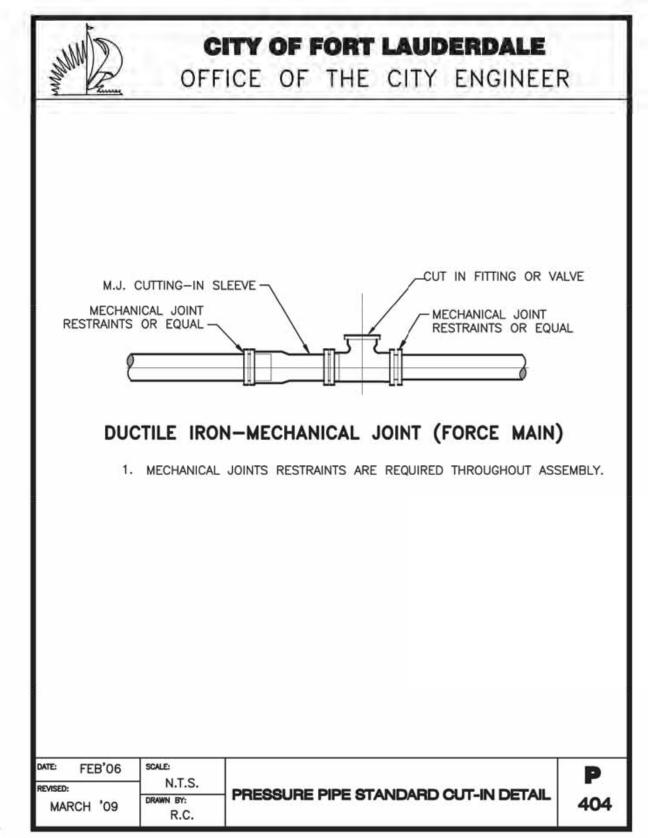


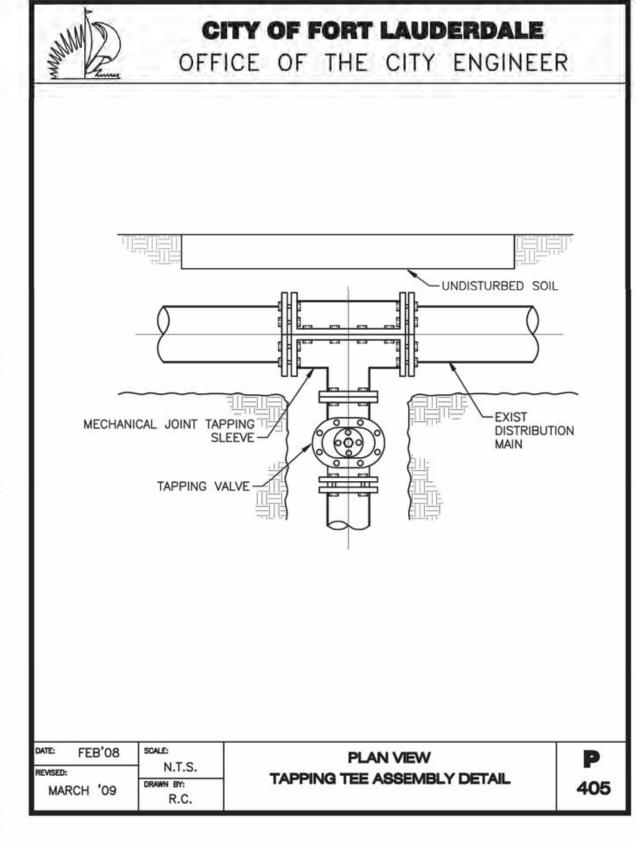


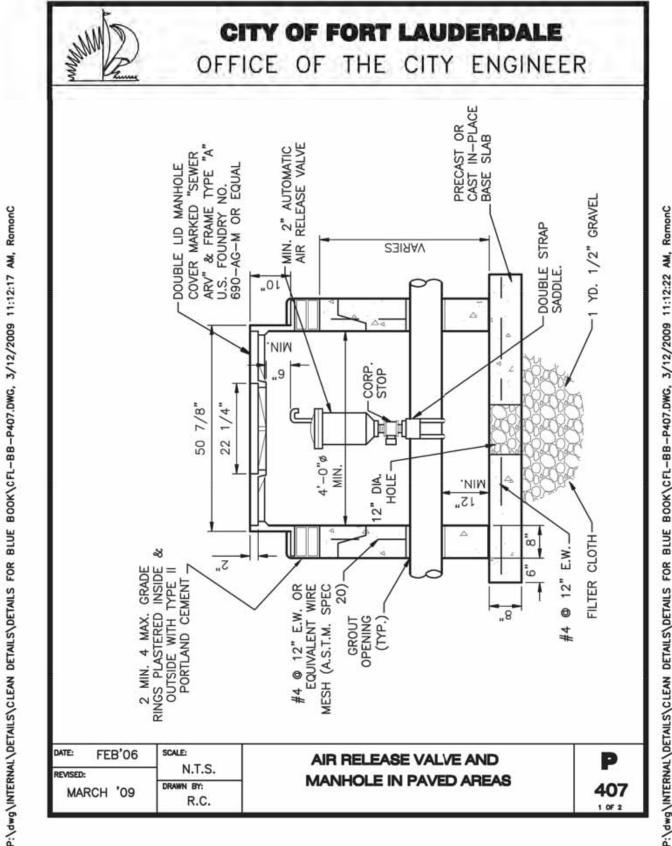


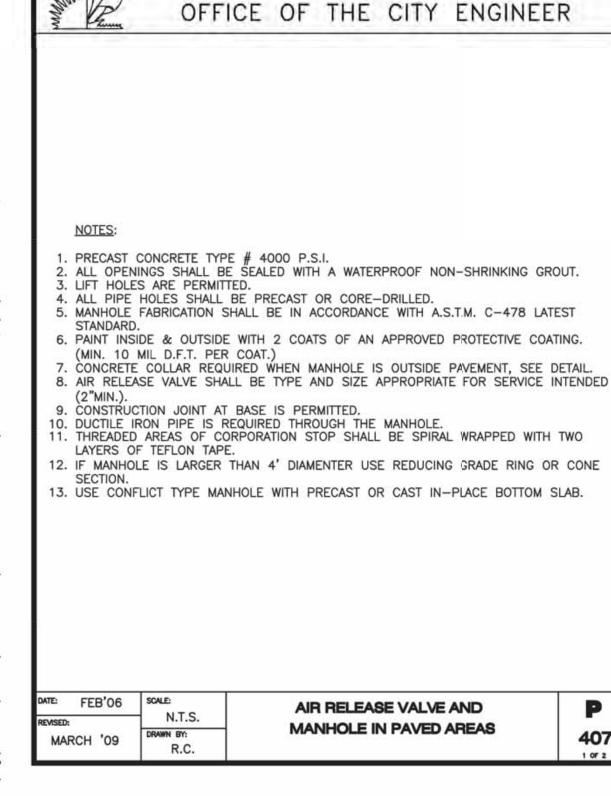


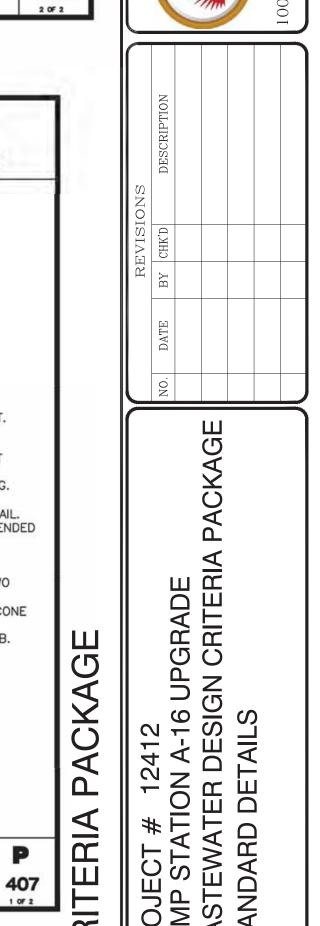
CITY OF FORT LAUDERDALE











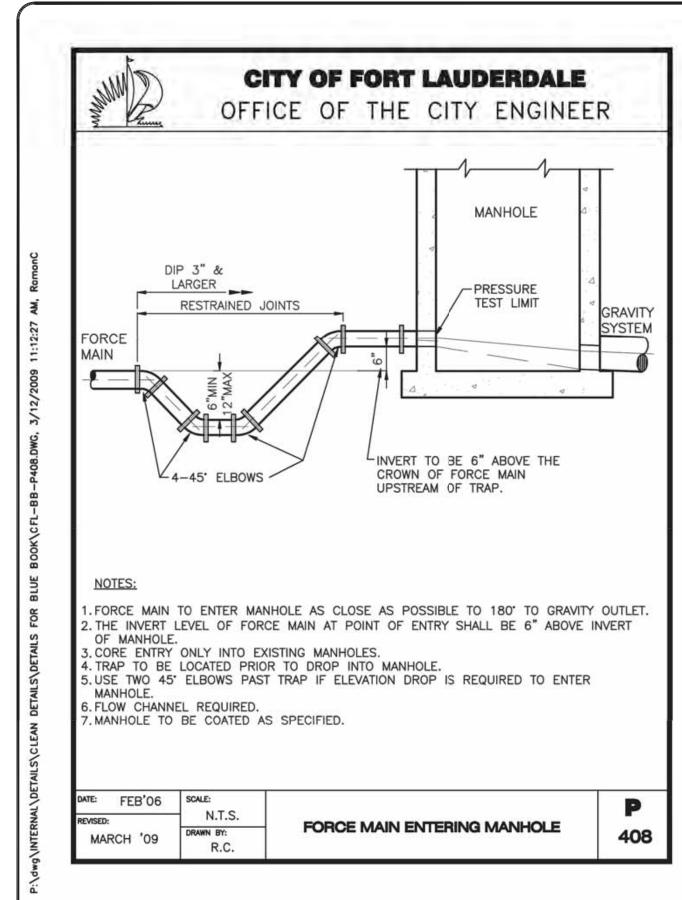
KNOW WHAT'S BELOV ALWAYS CALL 811 BEFORE YOU DIG t's fast. It's free. It's the lav

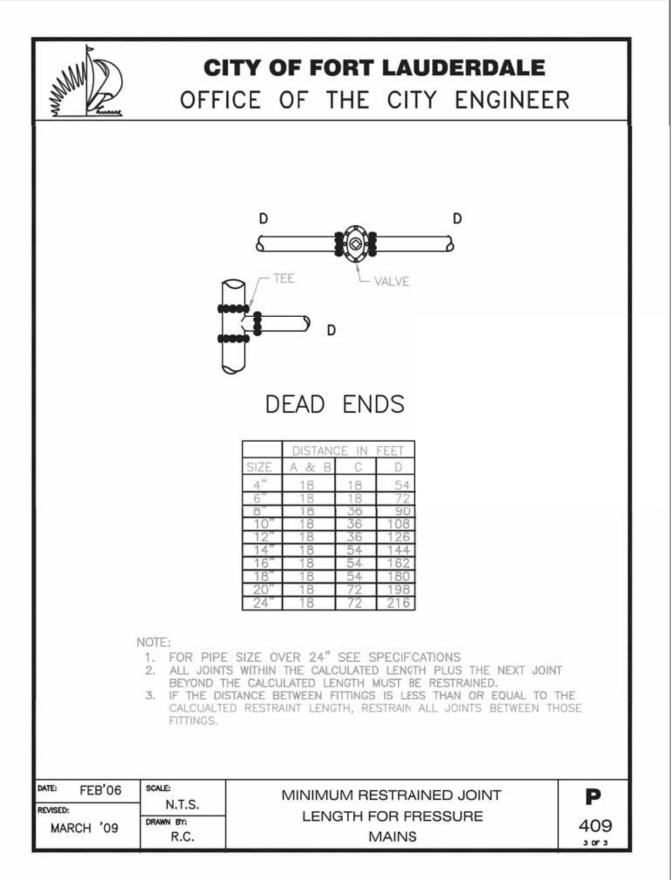
© 2021 KIMLEY-HORN AND ASSOCIATES, INC.

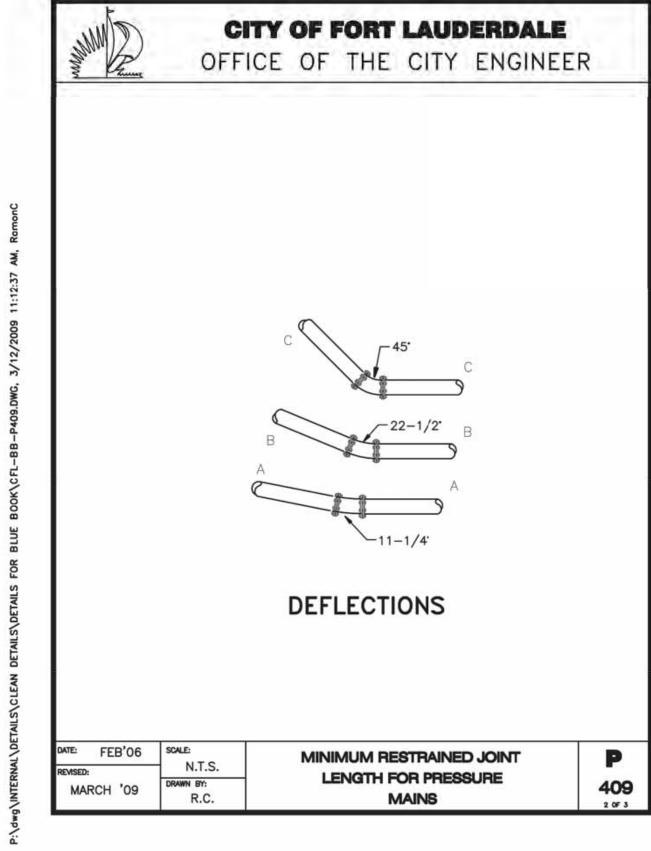
WWW.KIMLEY-HORN.COM REGISTRY No. 696

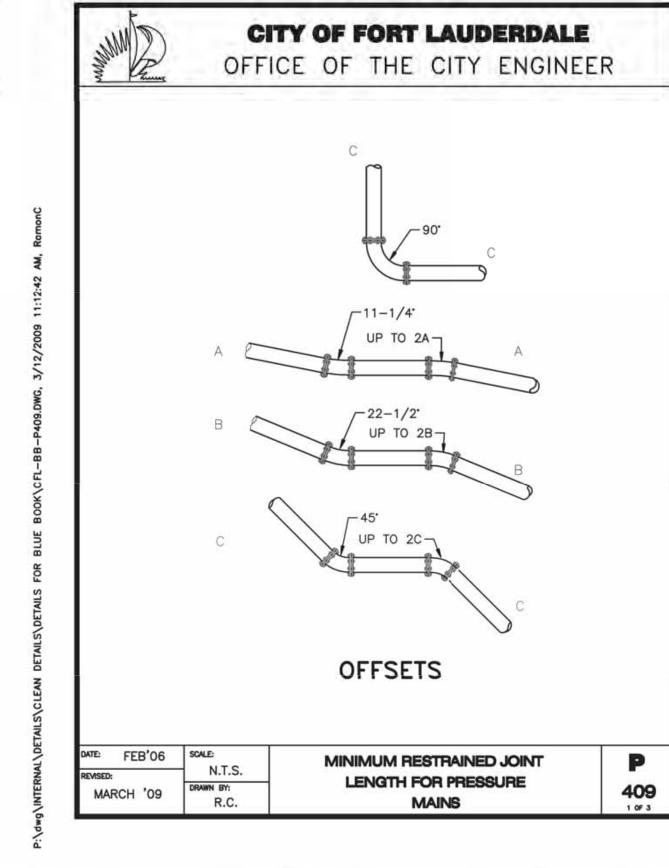
8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247

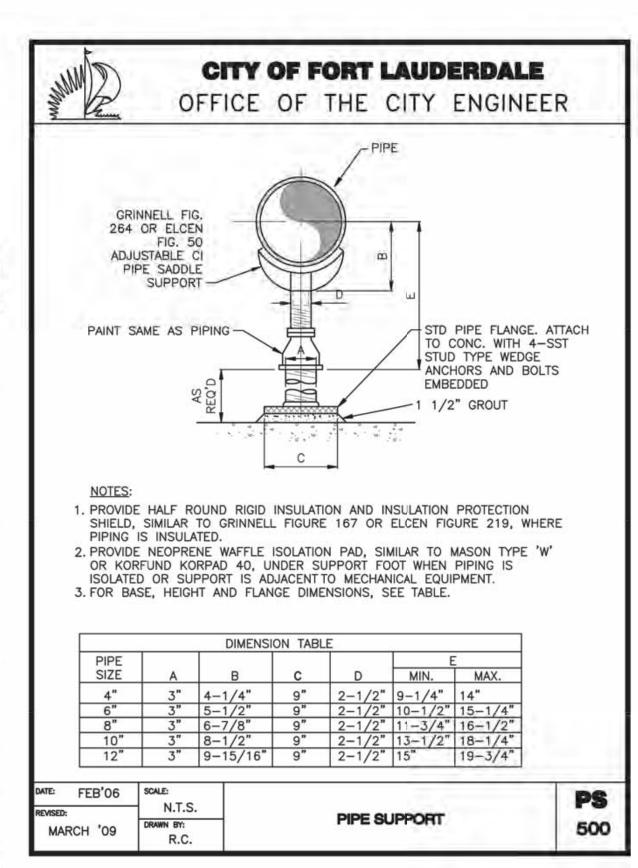
CAD FILE: 12412-MULTI-DETL DRAWING FILE NO. 4-142-31

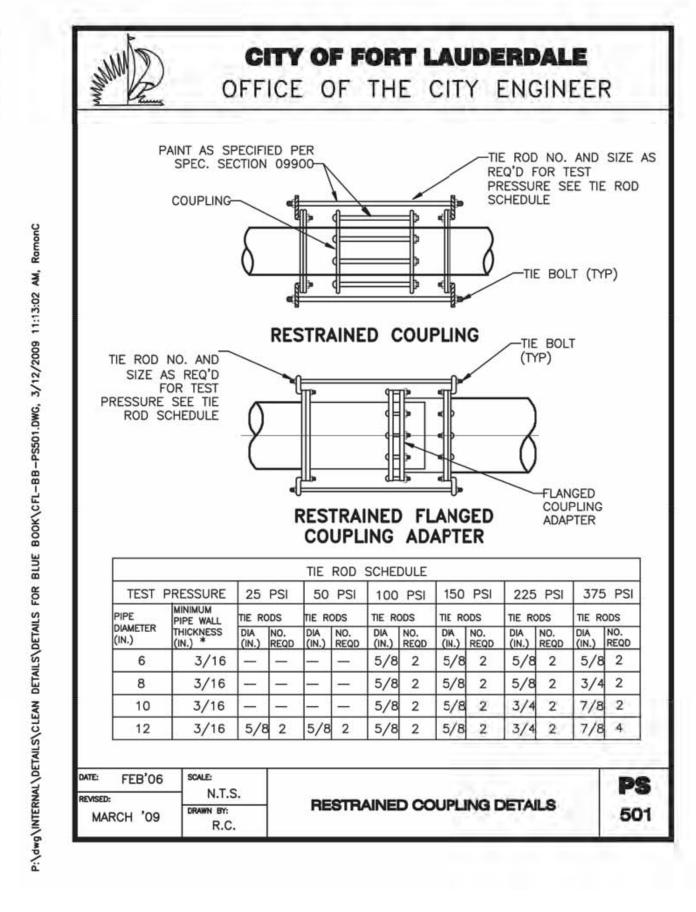


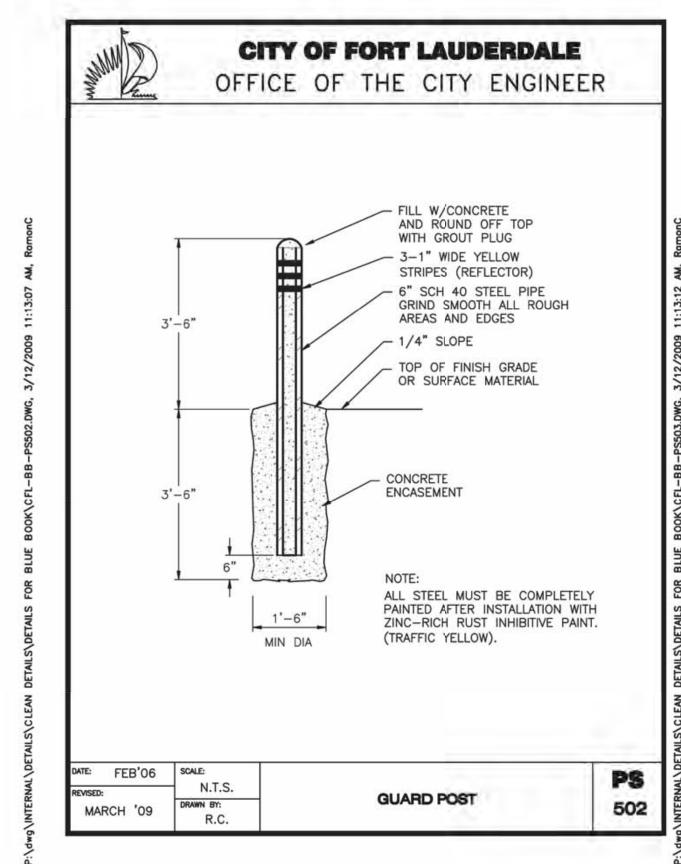


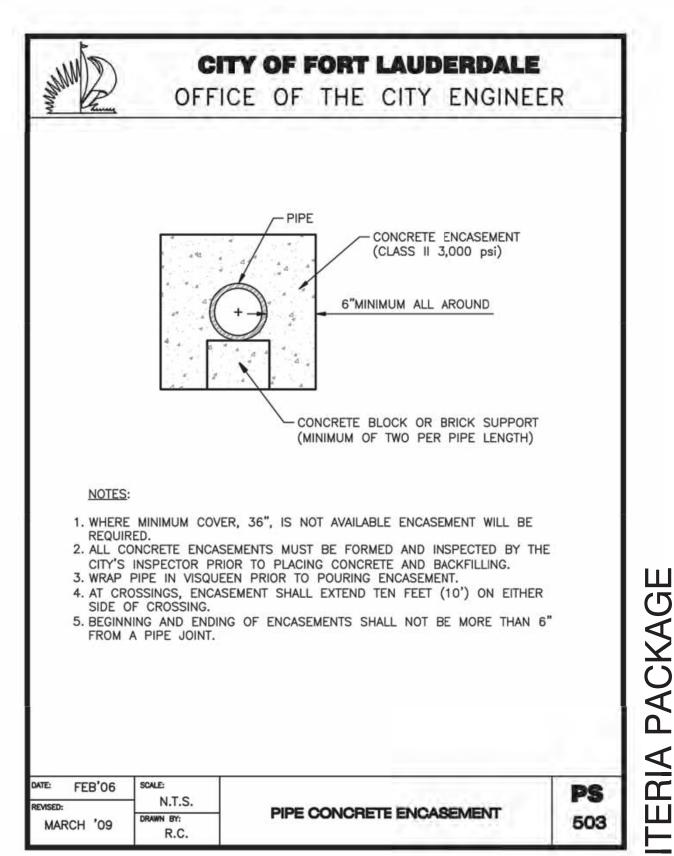














PREPARED BY: © 2021 KIMLEY-HORN AND ASSOCIATES, INC.

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM REGISTRY No. 696

12412 ION A-16 UP(ER DESIGN (DETAILS

PROJECT # PUMP STATI WASTEWATE	STANDARD
SHEET NO.	OF
15	3
CAD FILE:	

12412-MULTI-DETL

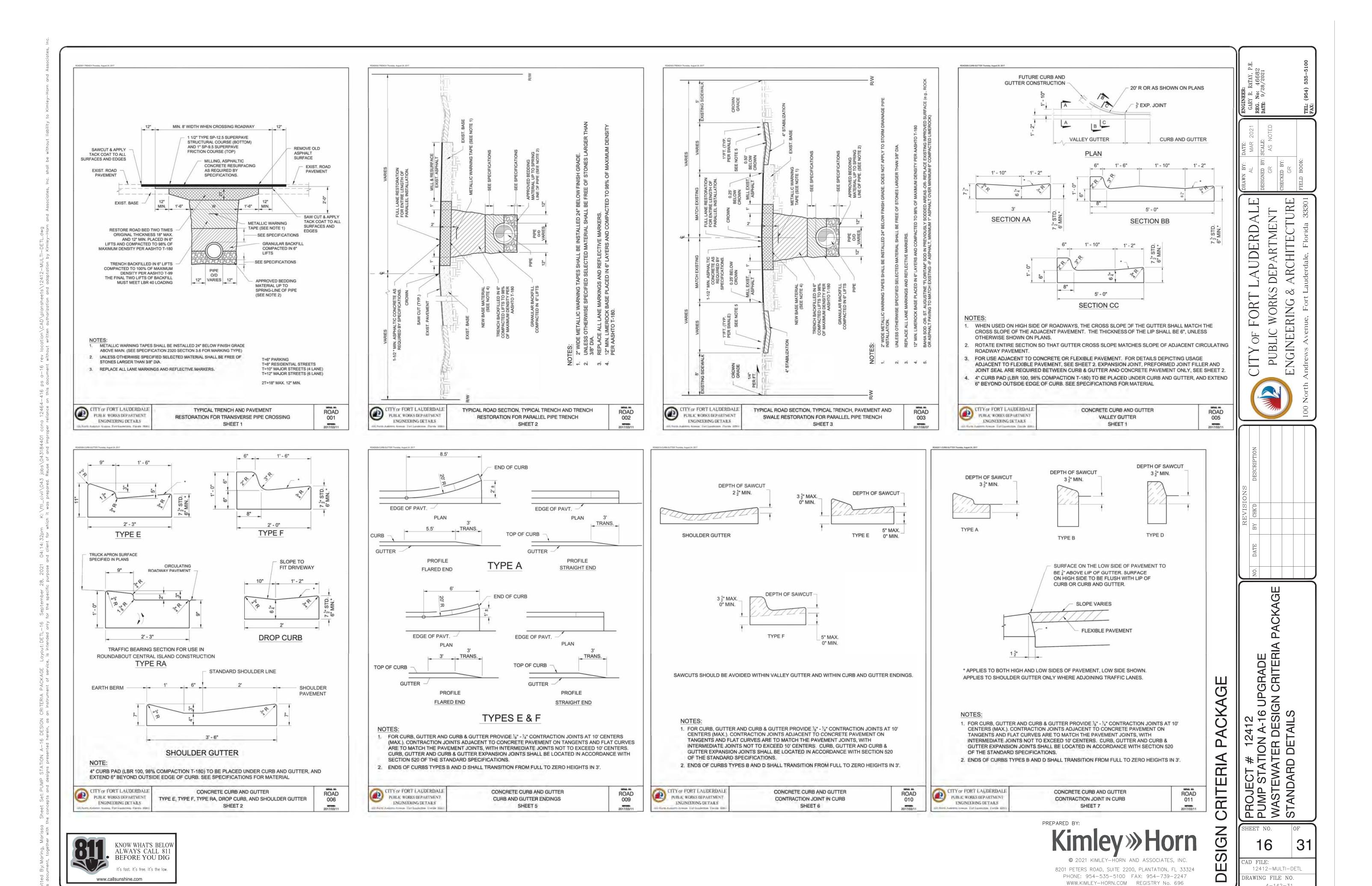
4-142-31

DRAWING FILE NO.

(D

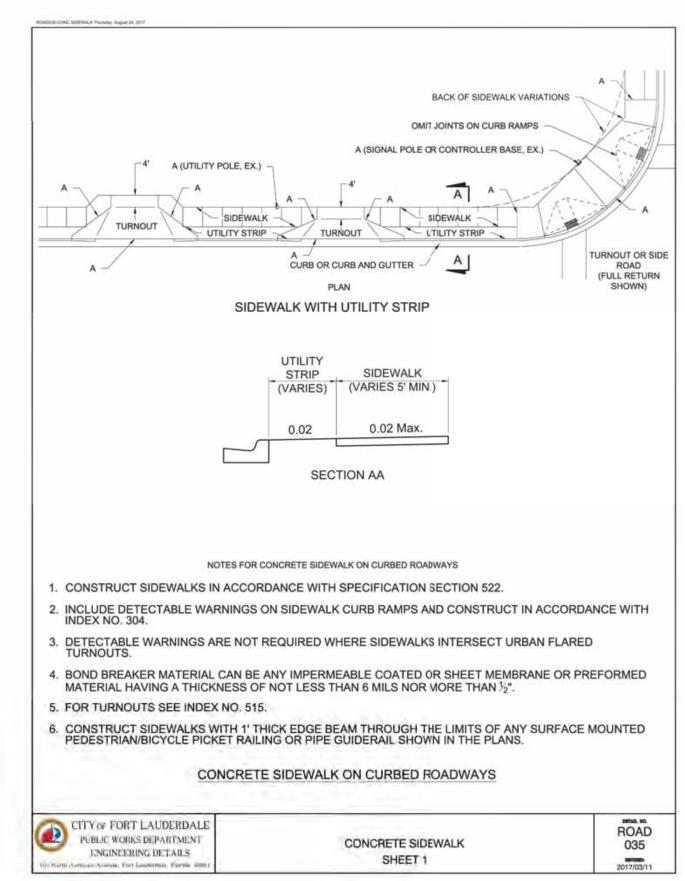
 \overline{O}

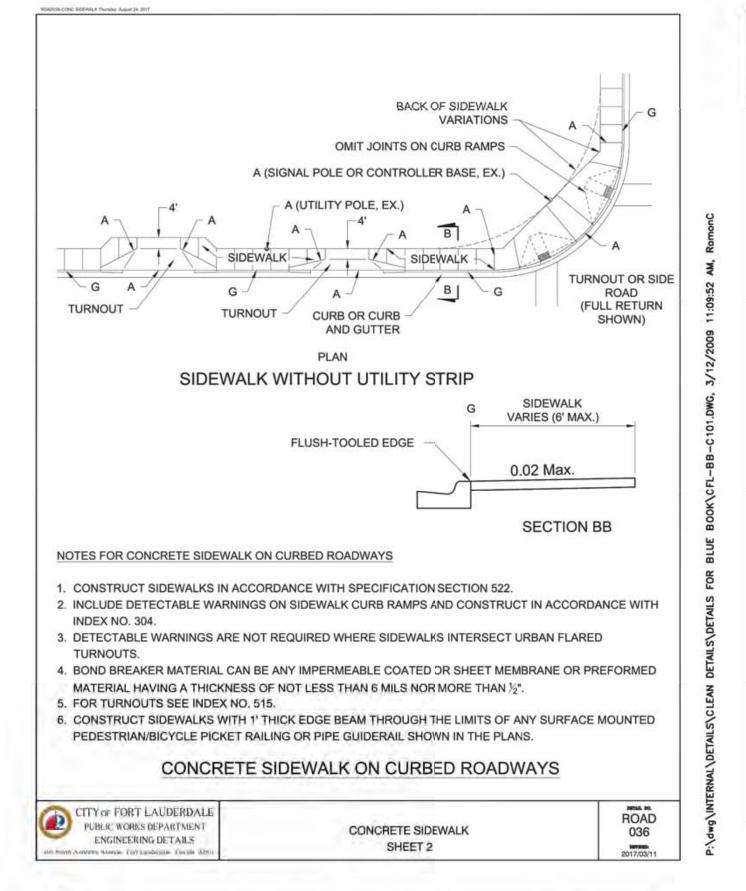
<u>α</u> Ω

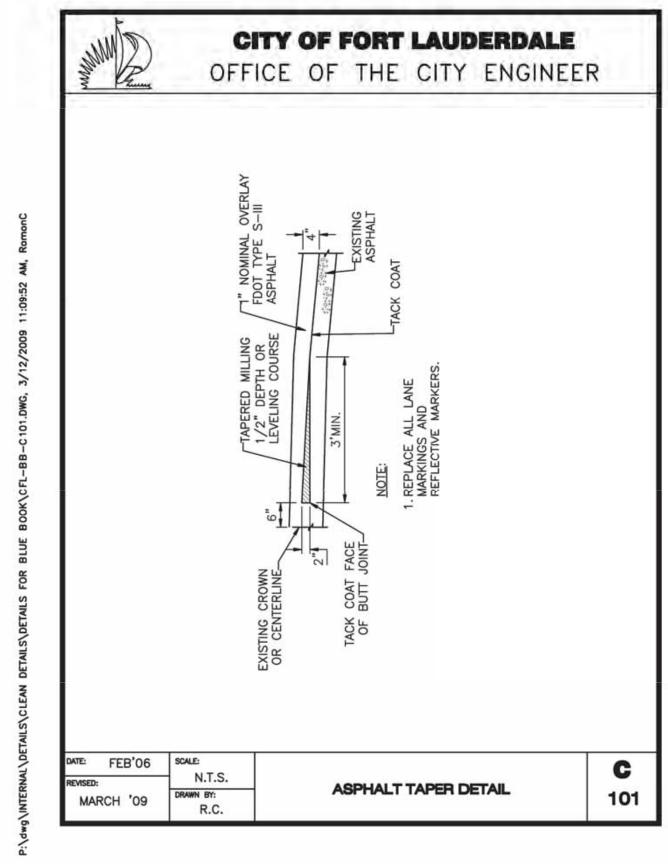


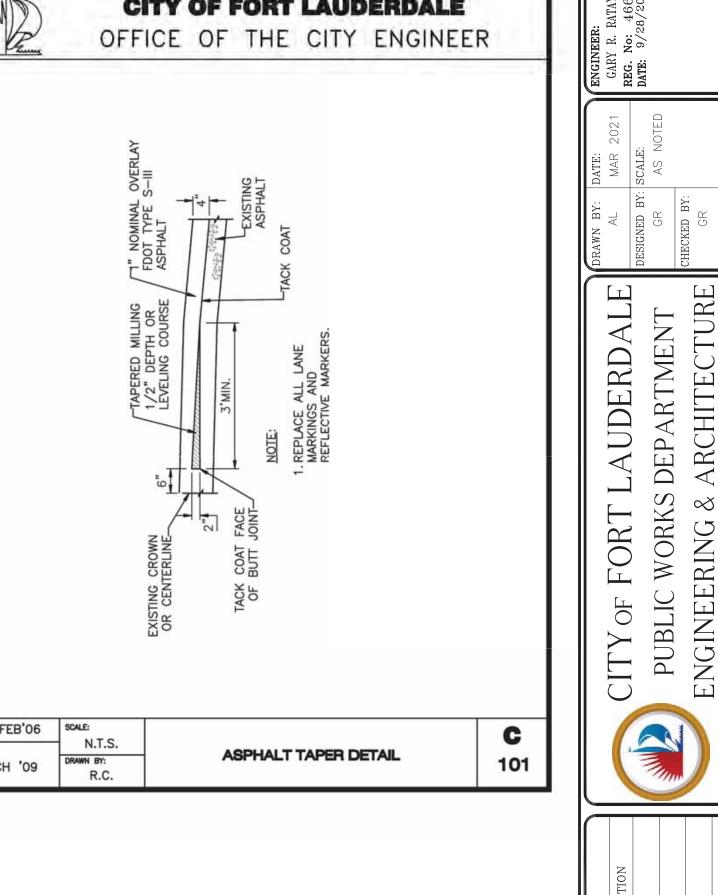
4-142-31

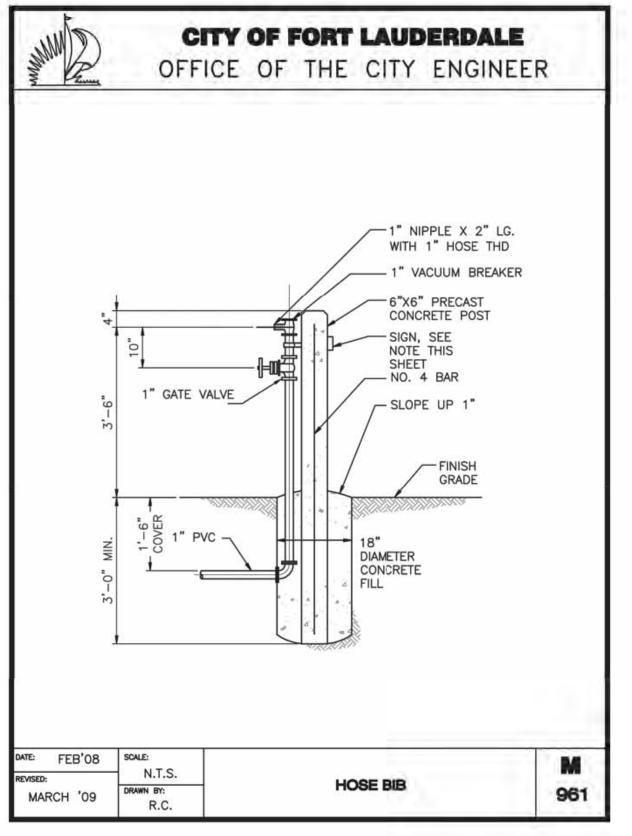


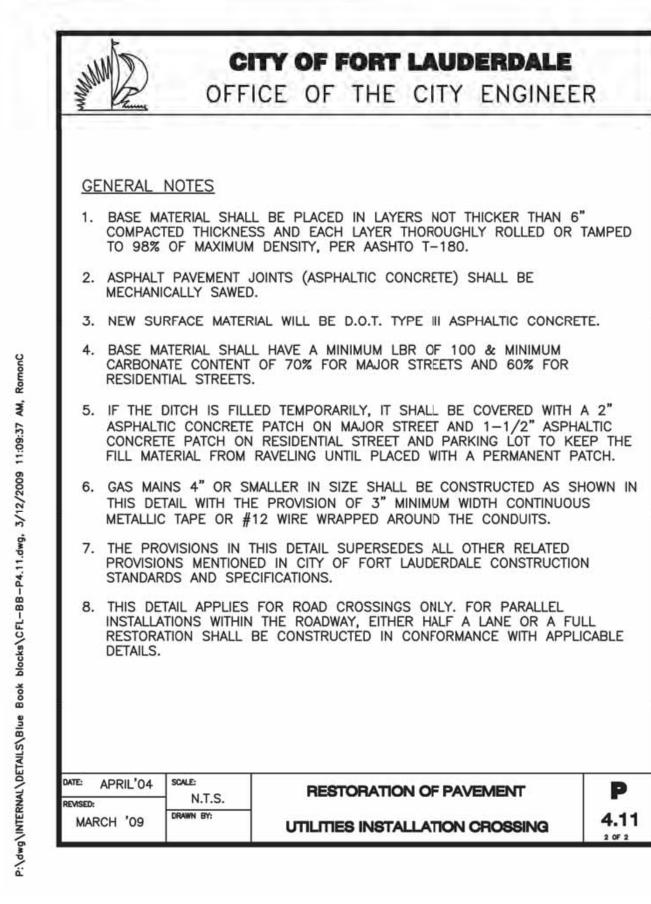


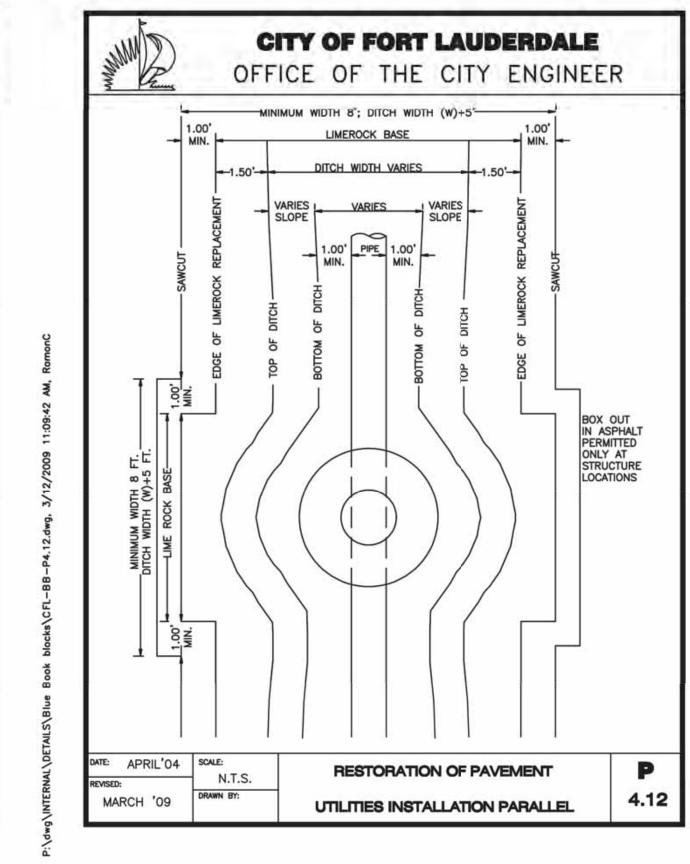














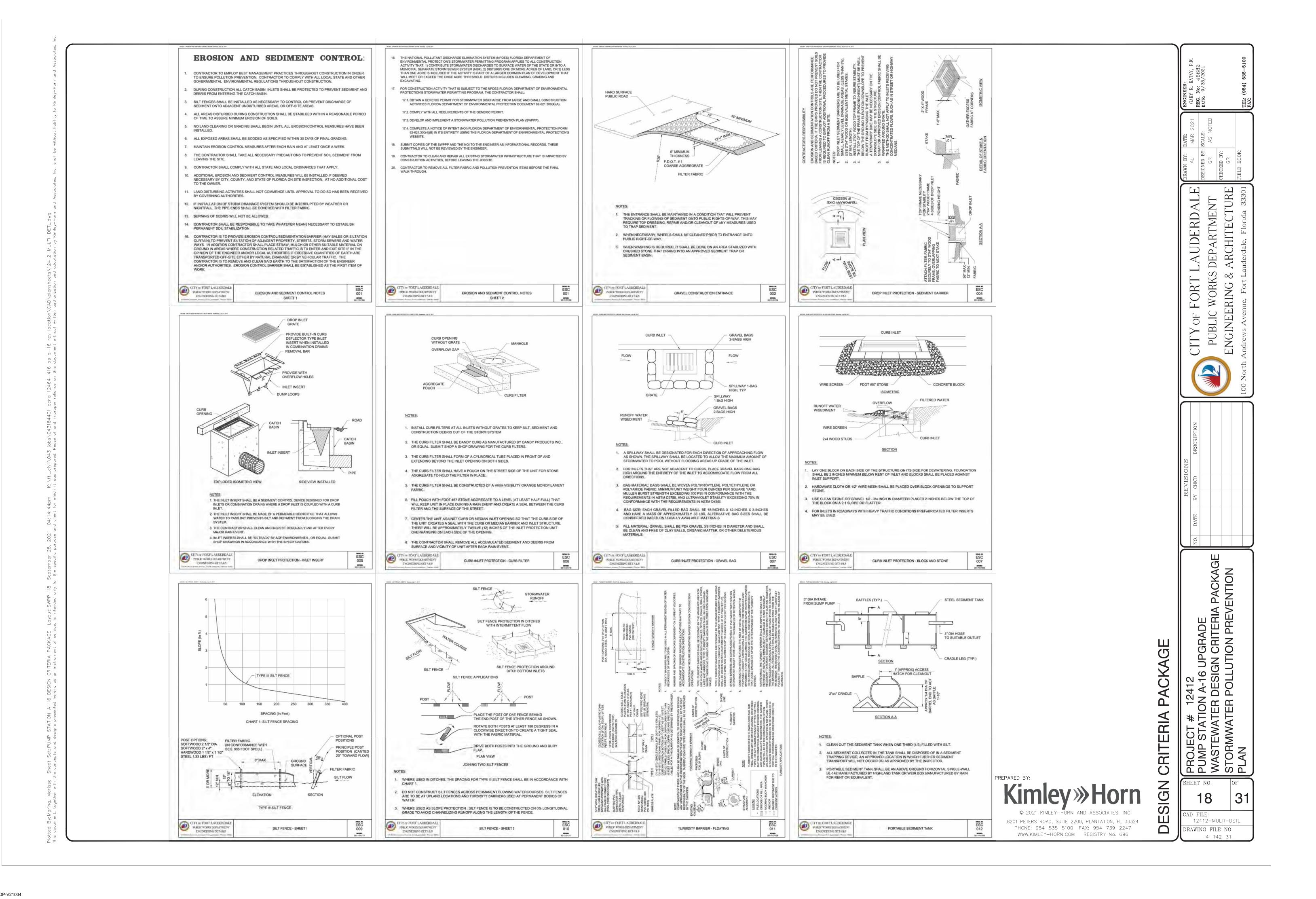
KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG It's fast. It's free. It's the lav

PREPARED BY: © 2021 KIMLEY-HORN AND ASSOCIATES, INC.

8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324 PHONE: 954-535-5100 FAX: 954-739-2247 WWW.KIMLEY-HORN.COM REGISTRY No. 696

CAD FILE: 12412-MULTI-DETL

DRAWING FILE NO. 4-142-31



ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC... THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING HIS BID. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2017 NATIONAL

NOTES

ELECTRICAL CODE, 2020 FLORIDA BUILDING CODE, 2014 NATIONAL FIRE PROTECTION ASSOCIATION AND SHALL COMPLY WITH ALL LOCAL RULES

. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING, UNLESS OTHERWISE NOTED.

. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.

ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST EDITION OF THE N.E.C. OR LOCAL CODES. ALL CONDUITS SHALL HAVE A BOND WIRE SIZED PER TABLE 250-122 OF THE NATIONAL ELECTRIC CODE.

. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE

3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/OWNER.

CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN TWO YEARS FROM DATE OF ACCEPTANCE.

10. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.

11. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF THE FPL. SEE 16050 FOR ADDITIONAL INFORMATION.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.

13. ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS W/ TYPE WRITTEN DIRECTORIES (NEW & EXISTING).

14. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

15. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO THE MECHANICAL DRAWINGS & THE APPROVED MANUFACTURER'S SHOP DRAWINGS FOR THE EXACT LOCATION OF ALL EQUIPMENT.

16. NON-SHADED TEXT DENOTES NEW EQUIPMENT, STRUCTURES AND WORK. SHADED AND SLANTED TEXT DENOTES EXISTING EQUIPMENT OR

17. ALL CONTROL PANELS SHALL BE UL LISTED AND SHALL COMPLY WITH ARTICLE 409 OF THE NEC.

18. ALL EMPTY CONDUITS SHALL BE INSTALLED WITH PULL STRING.

 \triangleleft

 \triangleleft

ME

ERIC HAMMOND, P.E.

FL. LICENSE # PE39048

ž	REVISIONS	DESCRIPTION		
		BY CHK'D		
		BY		
		DATE		
,		NO.		

RADI RITE

PUMP STATION A-1
WASTEWATER DES
ELECTRICAL NOTE
ABBREVIATIONS

HEET NO.

AD FILE:

12412-19-LGND

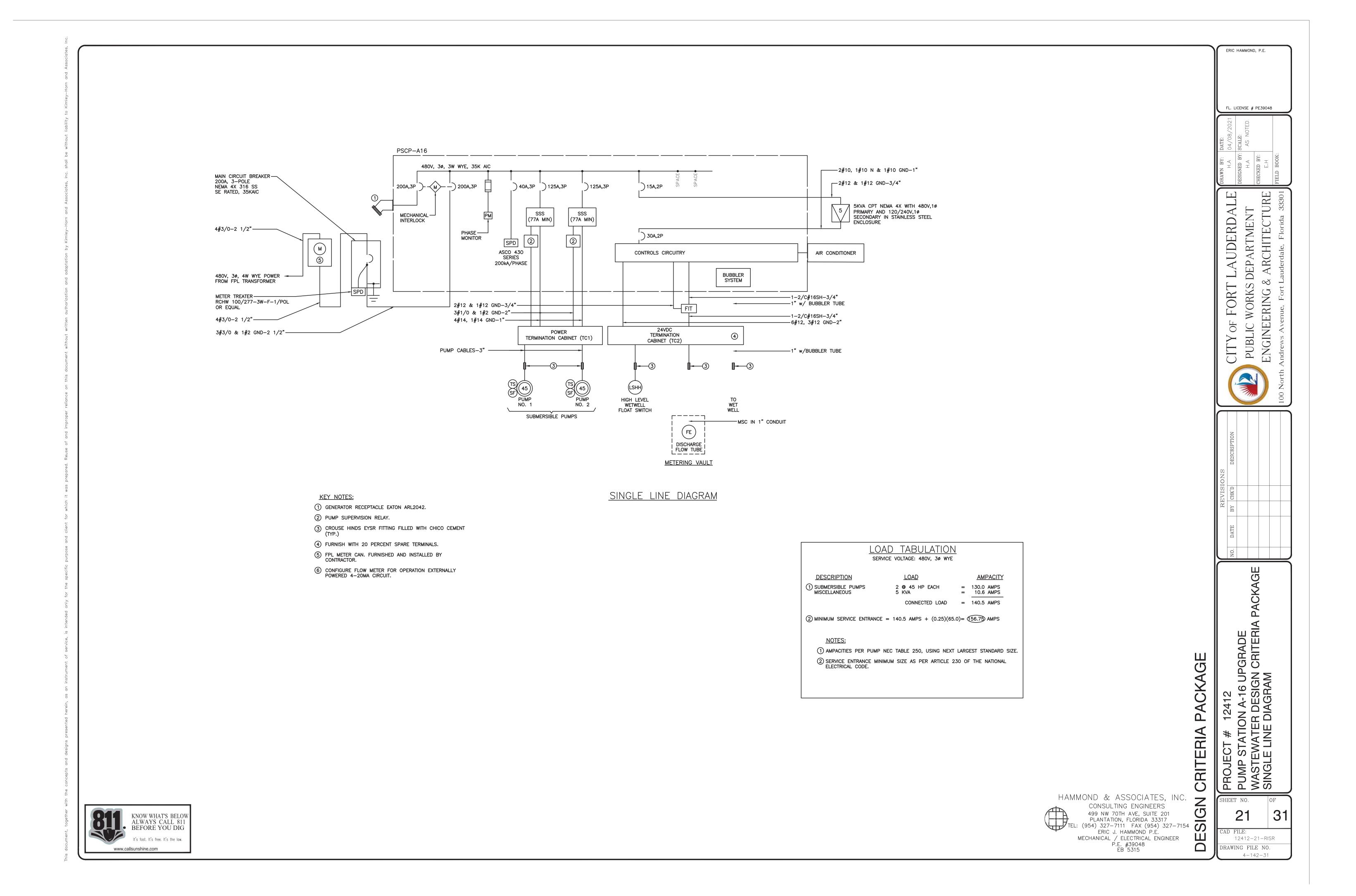
4-142-31

RAWING FILE NO.

HAMMOND & ASSOCIATES, INC. CONSULTING ENGINEERS 499 NW 70TH AVE, SUITE 201 PLANTATION, FLORIDA 33317 TEL: (954) 327-7111 FAX (954) 327-7154 ERIC J. HAMMOND P.E. MECHANICAL / ELECTRICAL ENGINEER P.E. #39048 EB "5315

KNOW WHAT'S BELO' ALWAYS CALL 81 BEFORE YOU DIG It's fast. It's free. It's the law. www.callsunshine.com





DESCRIPTION

MICROLOGIX 1100 PROGRAMMABLE CONTROLLER

OTES:

1 BILL OF MATERIALS SHALL NOT BE CONSIDERED AS FINAL. VENDOR SHALL PROVIDE ALL DEVICES AND EQUIPMENT REQUIRED TO PROVIDE THE FUNCTIONALITY POWER SOURCE CIRCUITS INDICATED AND REQUIRED.

MANUFACTURER PART NUMBER

ALLEN-BRADLEY, 1763-L16BWA



HAMMOND & ASSOCIATES, INC.

CONSULTING ENGINEERS

499 NW 70TH AVE, SUITE 201
PLANTATION, FLORIDA 33317

TEL: (954) 327-7111 FAX (954) 327-7154
ERIC J. HAMMOND P.E.
MECHANICAL / ELECTRICAL ENGINEER
P.E. #39048
EB 5315

DESIGN CRITERIA PACKAGE

DESIGN CRITERIA PACKAGE

CAD LITERIA PACKAGE

CAD LITERIA PACK

CAD LITERIA PACK

WASTEWATER DESIGN CRITERIA PACK
CONTROL PANEL BILL OF MATERIALS

ERIC HAMMOND, P.E.

FL. LICENSE # PE39048

UDERDA

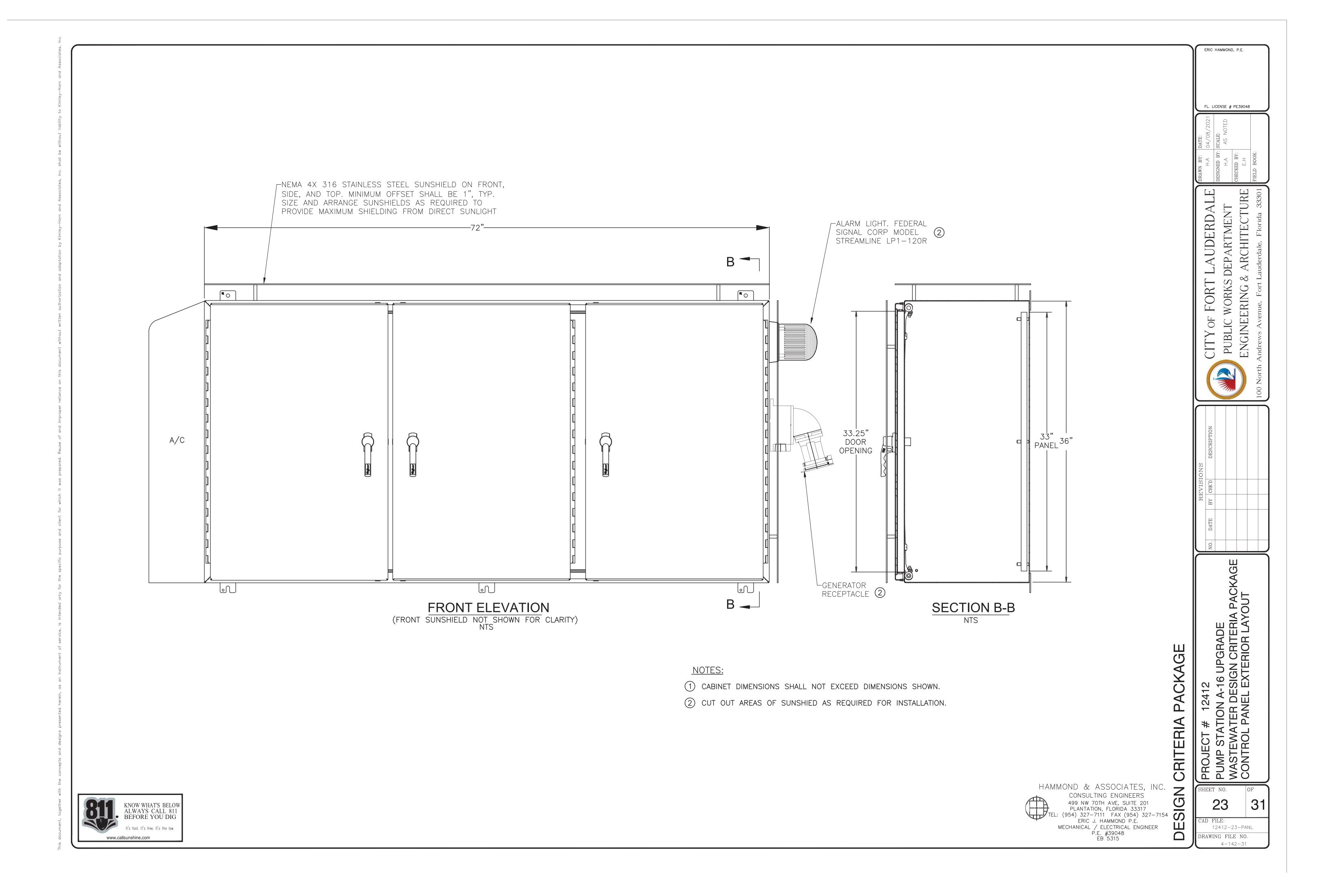
DEPARTMENT

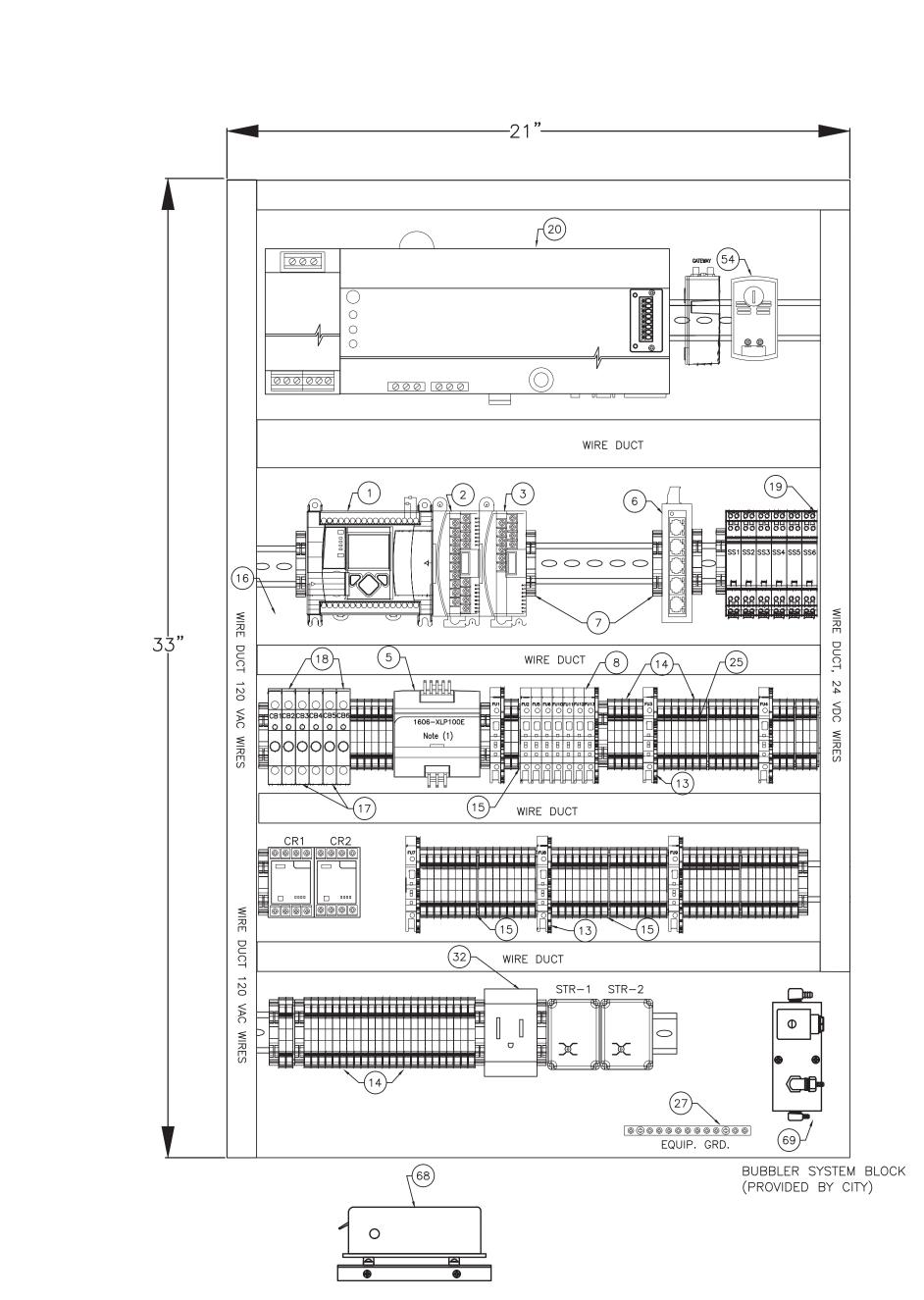
& ARCHITECTU

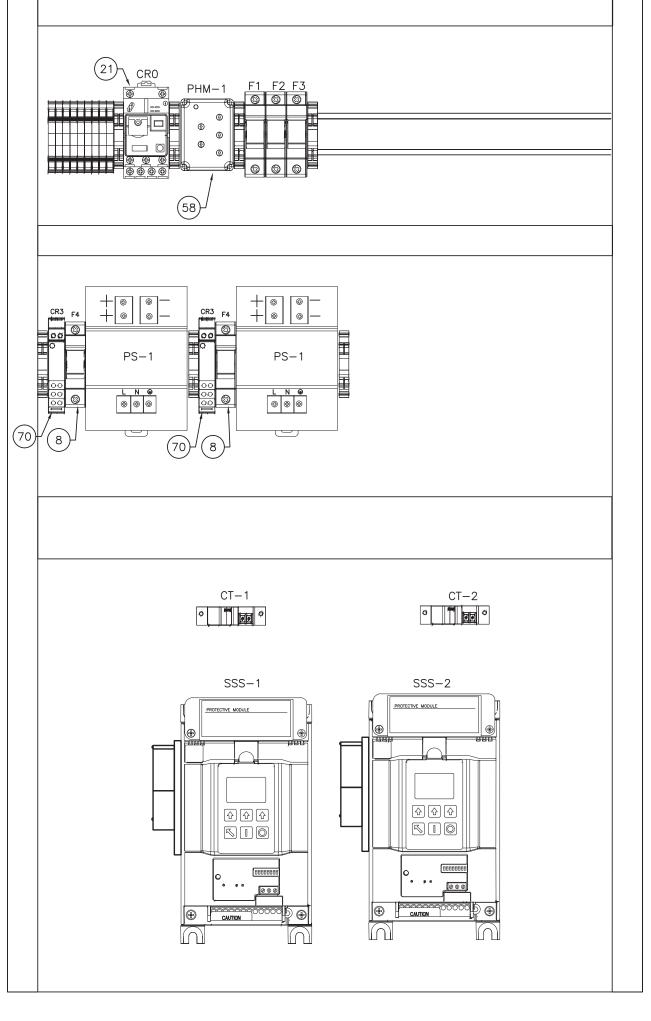
WORKS

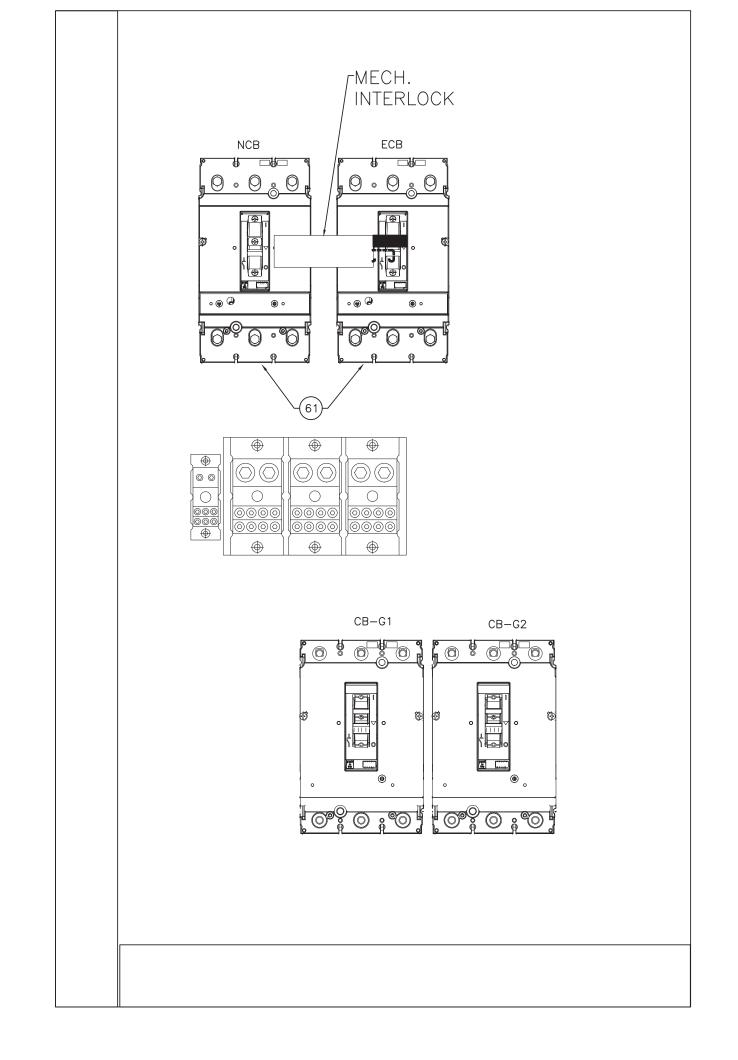
PUBLIC ENGINE

G









GENERAL ELECTRICAL NOTES: 1. FOR EACH SECTION, USE LEFT WIRE DUCTS FOR 120 VAC WIRES AND RIGHT WIRE DUCTS FOR 24 VDC WIRES.



HAMMOND & ASSOCIATES, INC. CONSULTING ENGINEERS

499 NW 70TH AVE, SUITE 201

PLANTATION, FLORIDA 33317

TEL: (954) 327-7111 FAX (954) 327-7154 ERIC J. HAMMOND P.E.

MECHANICAL / ELECTRICAL ENGINEER

P.E. #39048

EB 5315

PROJECT # 12412
PUMP STATION A-16 UPGRADE
WASTEWATER DESIGN CRITERIA PACKAGE
CONTROL PANEL COMPONENT LAYOUT

ERIC HAMMOND, P.E.

FL. LICENSE # PE39048

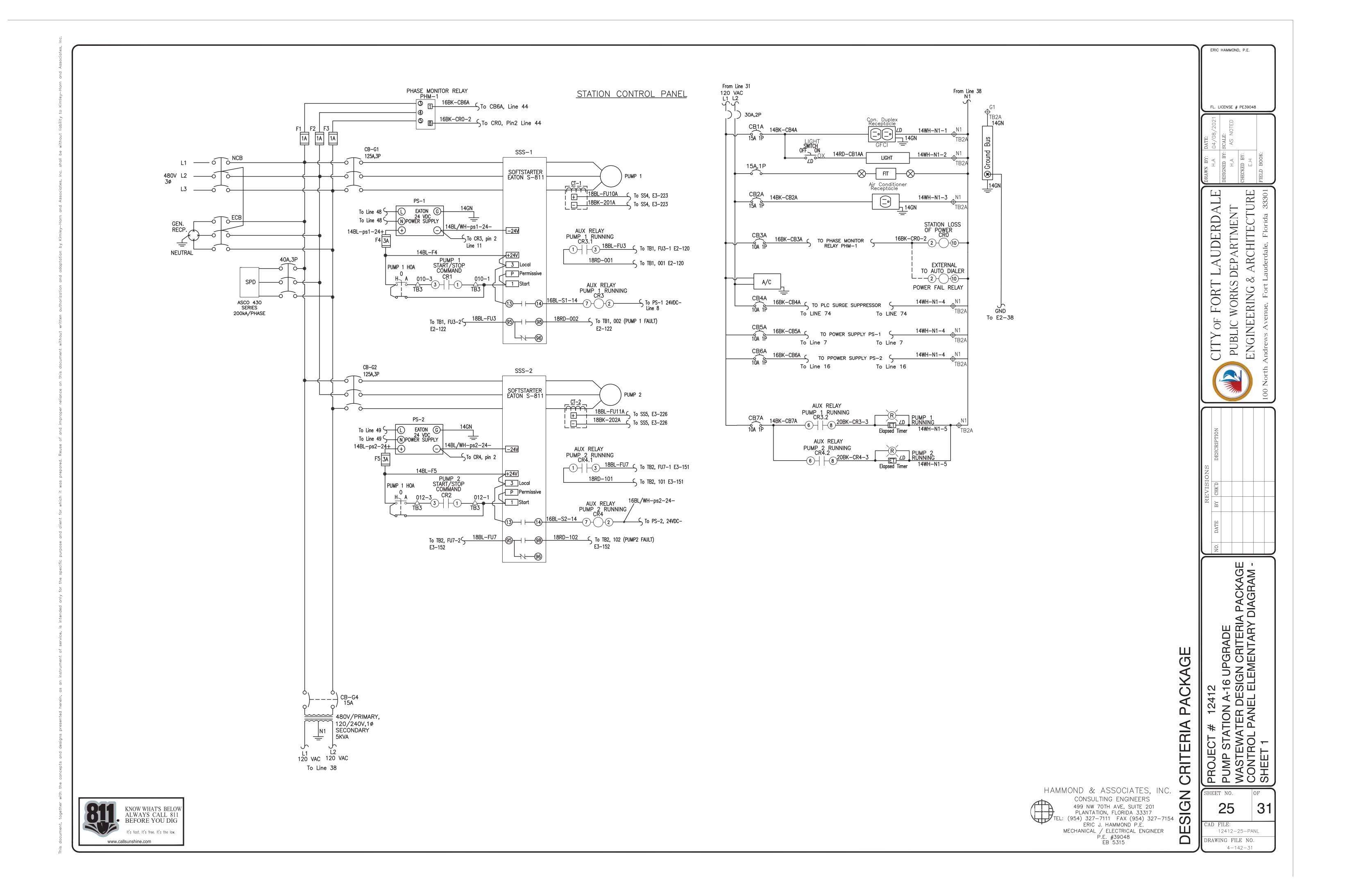
CITY OF FORT LAUDERDALE

PUBLIC WORKS DEPARTMENT

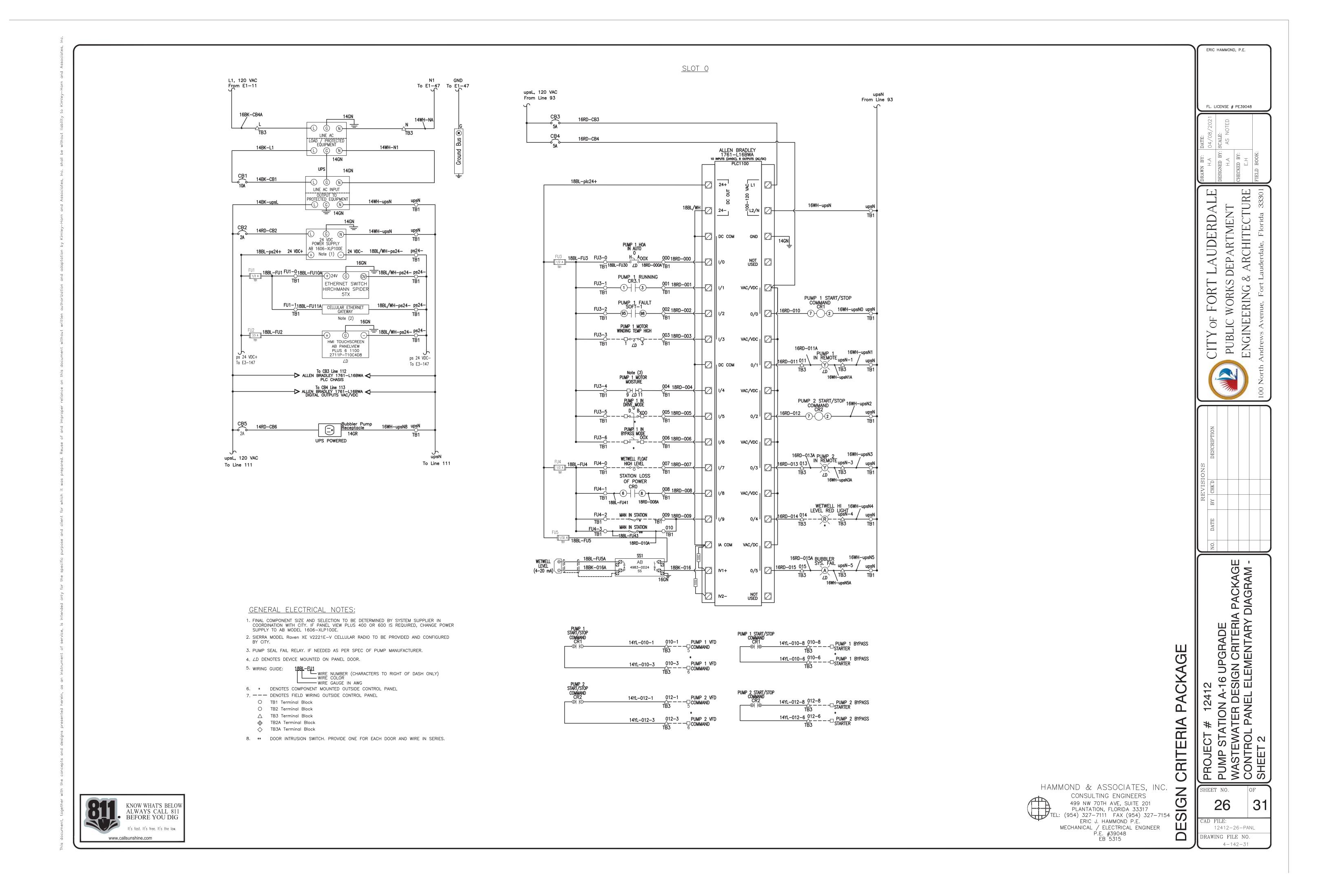
ENGINEERING & ARCHITECTURE

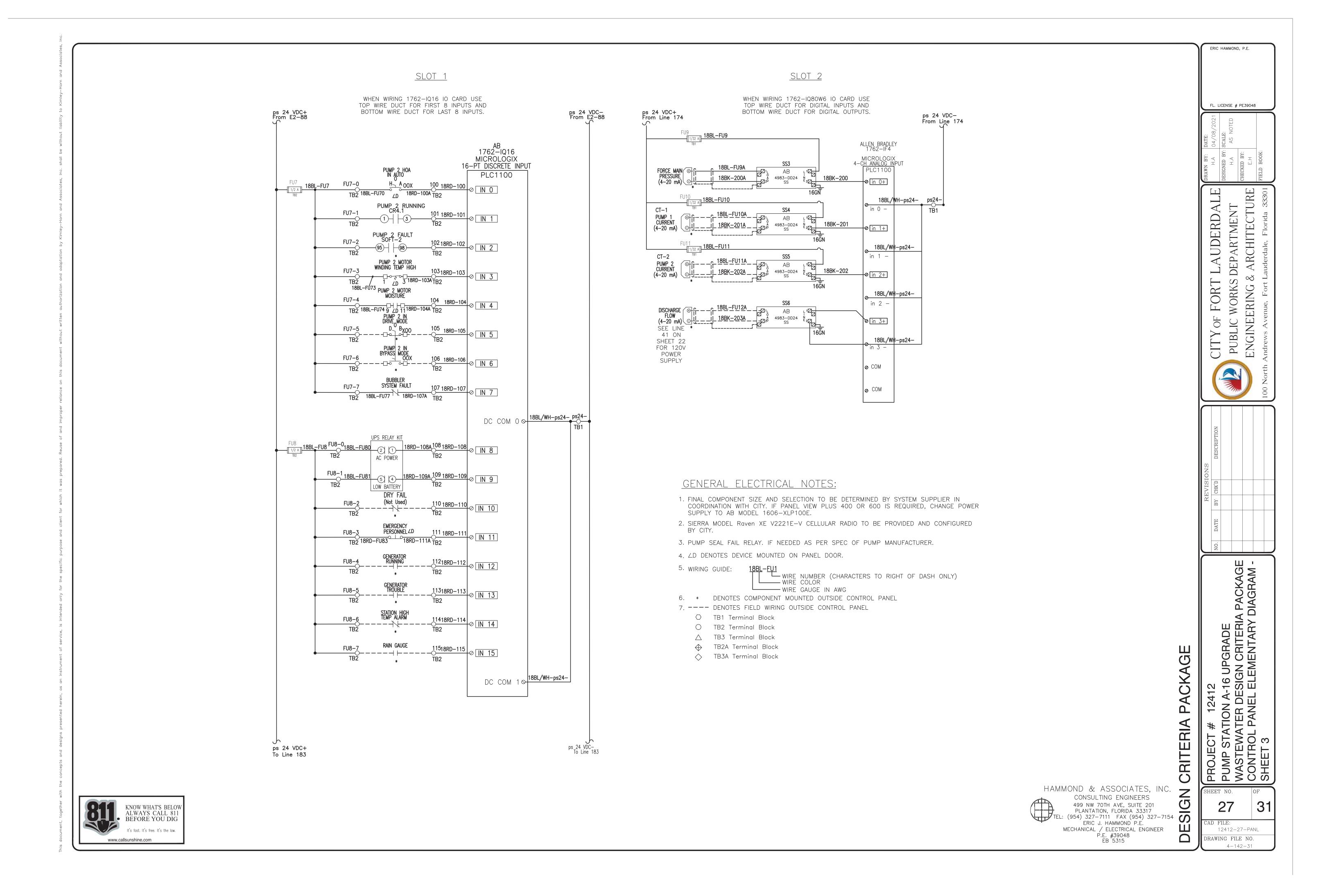
The Andrews Avenue, Fort Lauderdale, Florida 33301

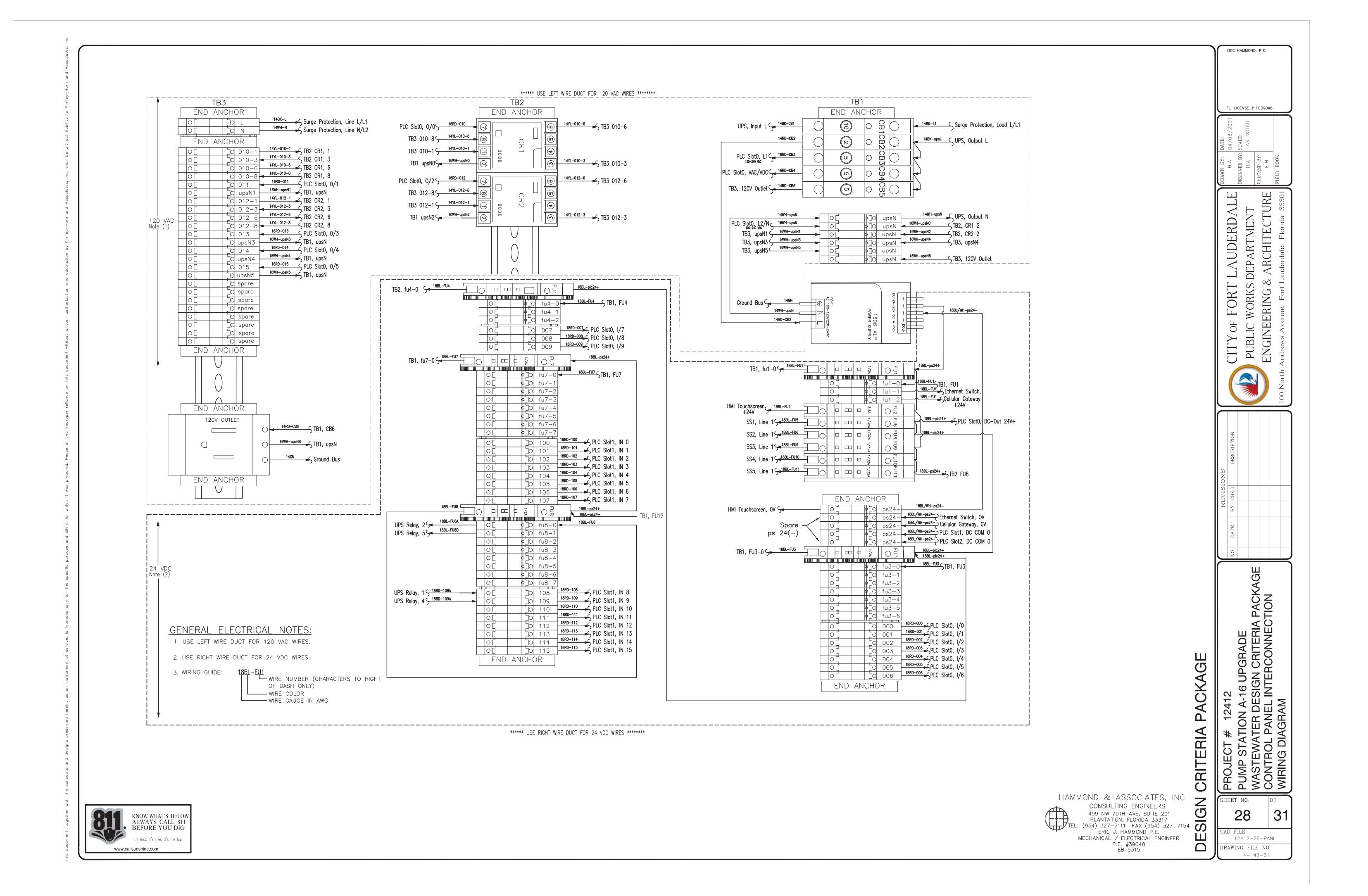
CAD FILE: 12412-24-PANL RAWING FILE NO. 4-142-31

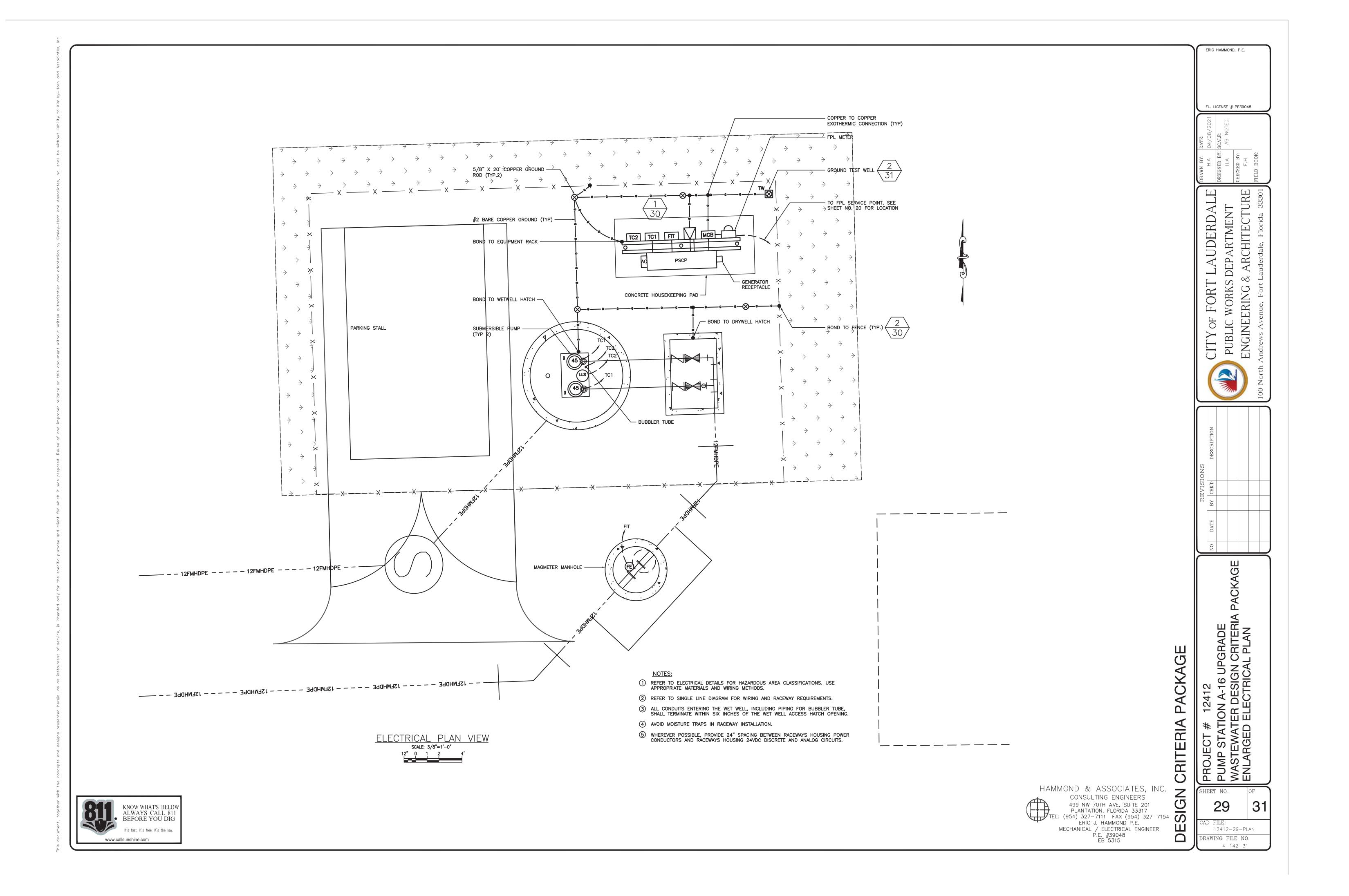


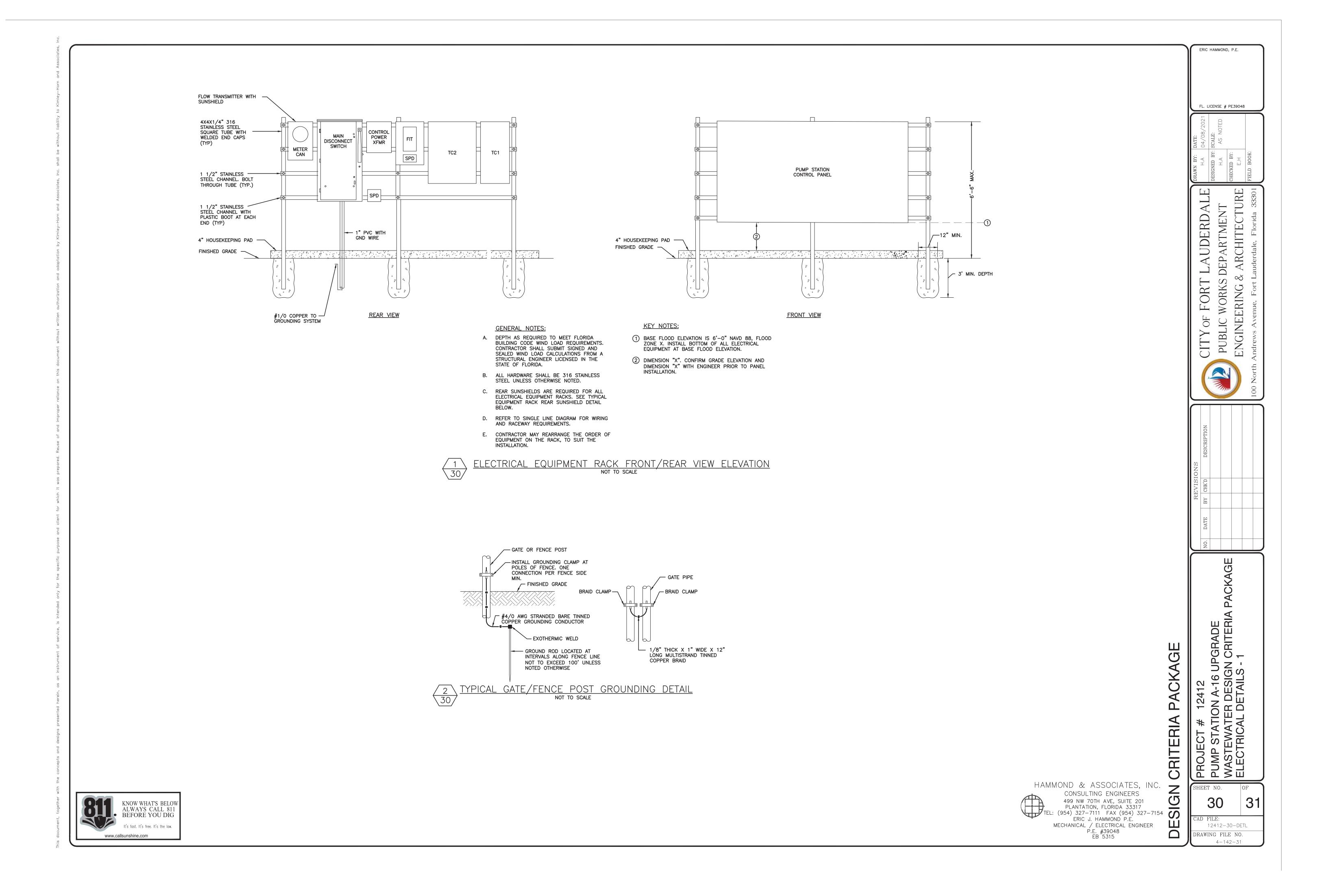
CASE: UDP-V21004 Exhibit 4 Page 26 of 32

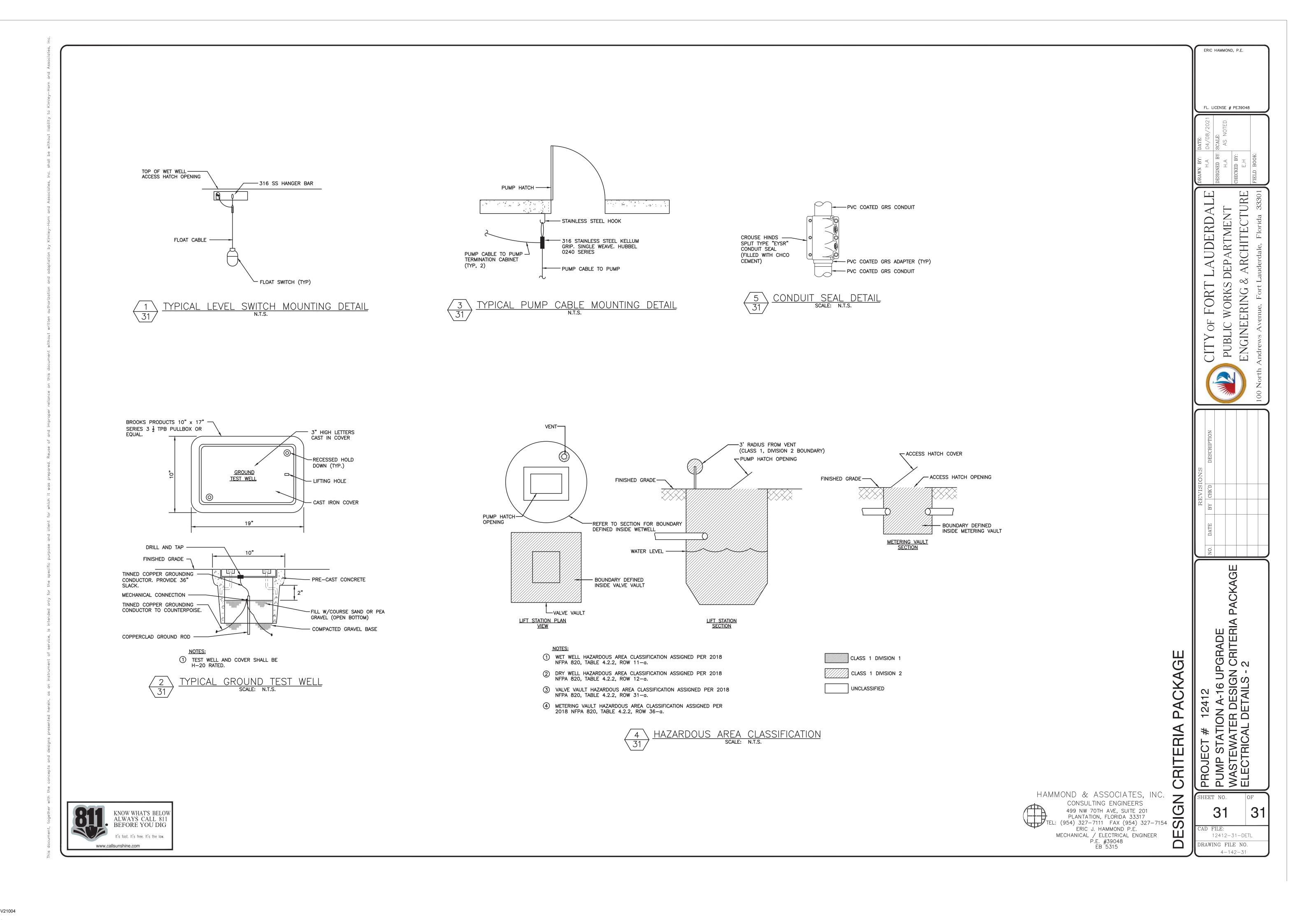












CASE: UDP-V21004 Exhibit 4 Page 32 of 32