GOVERNING BOARD

CHAIRMAN TREASURER VICE CHAIRMAN SECRETARY

JAMES D. SNYDER STEPHEN B. ROCKOFF DR. MATT H. ROSTOCK **GORDON M. BOGGIE** ASST. SEC'Y/TREASURER HARVEY M. SILVERMAN

RECORD DRAWING LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT MASTER LIFT STATION No. 1 REHABILITATION

AS-BID SET (ISSUED FOR CONSTRUCTION) **APRIL 2018**





LOCATION MAP NTS

SURVEYOR'S NOTES

- 1. BEARINGS AS SHOWN HEREON ARE BASED ON STATE PLANE COORDINATES, U.S. SURVEY FEET, NORTH AMERICAN DATUM OF 1983/1990 (N.A.D. 83/90), FLORIDA EAST ZONE.
- 2. ELEVATIONS AS SHOWN HEREON WERE PROVIDED BY THE CLIENT AND REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1929 (N.A.V.D 29), REFERENCE THE EXISTING ONSITE BENCHMARKS "CP #1", ELEVATION = 10.22 FEET AND "CP #4, ELEVATION =11.01 FEET. ELEVATIONS AS SHOWN HAVE BEEN MEASURED TO AN ESTIMATED VERTICAL POSITIONAL ACCURACY OF 0.05 FEET.
- 3. WELL-IDENTIFIED FEATURES IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED HORIZONTAL POSITIONAL ACCURACY OF 0.10 FEET.
- 4. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL OF A FLORIDA LICENSED SURVEYOR UNLESS DIGITALLY SIGNED.
- 5. THIS IS NOT A BOUNDARY SURVEY.
- 7. THE RECORD DATA AS SHOWN HEREON WAS OVERLAID ONTO A DIGITAL FILE PREFORMED BY MATHEWS CONSULTING, A BAXTER & WOODMAN COMPANY FOR THE LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT MASTER LIFT STATION NO. 1 REHABILITATION, REFERENCE PROJECT NO. 160963, SHEET NO.'S 1 (G-1), 6 (C-3), 9 (C-6), 13 (M-4), 14 (M-5), 15 (M-6), (M-6B) AND 26 (E-3), LAST DATED JANUARY 18, 2019.

RECORD LEGEND

INVERT INV. LB LICENSED BUSINESS NUMBER PARKER KALON NAIL PK NAIL P.S.M. PROFESSIONAL SURVEYOR & MAPPER POLY VINYL CHLORIDE PIPE PVC T.O.N. TOP OF NUT

TOP OF PIPE WITH

FIELD LOCATED POINT WITH RECORD ELEVATION

DUCTILE IRON PIPE EL. OR ELEV. ELEVATION

RECORD DATA

DRAWING LIST

CONCRETE REPAIR PROCEDURES

ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS E-1ELECTRICAL SITE DEMOLITION PLAN

PROPOSED SINGLE LINE DIAGRAM E-529 OPERATIONS ROOM ELECTRICAL DEMOLITION PLAN 30

E-7OPERATIONS ROOM PROPOSED ELECTRICAL PLAN LOWER FLOOR PROPOSED ELECTRICAL PLAN AND DETAILS

BETSY LINDSAY, INC. DATE FIELD BOOK/PAGE SURVEYING AND MAPPING 10/7/2019 JUPITER 6 / PAGE 49 12/17/2019 JUPITER 6 / PG 53 7997 S.W. JACK JAMES DRIVE STUART, FLORIDA 34997 12/31/2019 EDIT PER CLIENT (772)286-5753 (772)286-5933 FAX 1/29/2020 EDIT PER CLIENT LICENSED BUSINESS NO. 6852

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE "RECORD SURVEY" AS SHOWN HEREON IS A TRUE AND CORRECT REPRESENTATION OF A FIELD SURVEY MADE UNDER MY DIRECTION AND CHARGE ON OCTOBER 7, 2019 AND UPDATED DECEMBER 17, 2019 AND SAID "RECORD SURVEY" IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF. IT IS FURTHER CERTIFIED THAT THIS "RECORD SURVEY" COMPLIES WITH THE STANDARDS OF PRACTICE FOR "RECORD SURVEY" SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

2/20/2020

BETSY LINDSAY, INC. SURVEYING AND MAPPING

RECORD DRAWING

JOB NO. 18-111

ELIZABETH A. LINDSAY, P.L.S. FLORIDA REGISTRATION NO. 4724

NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER UNLESS DIGITALLY SIGNED

> TITLE SHEET, LOCATION MAP AND DRAWING LIST

EDIT PER CLIENT

SHEET: 1 of 31 DRAWING: G - 1

FOR INFORMATION REGARDING THIS PROJECT, CONTACT: JASON A. PUGSLEY, P.E.

MATHEWS CONSULTING, A BAXTER & WOODMAN COMPANY 477 S. ROSEMARY AVENUE, SUITE 330 WEST PALM BEACH, FL 33401

561/655-6175



477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401 Phone: 561-655-6175 • Fax: 561-655-6179 www.baxterwoodman.com EB-31795

JASON A. PUGSLEY, P.E. No. 67426 (CIVIL & MECHANICAL) JEFFREY R. BERGMANN, P.E. No. 50159

(STRUCTURAL)

LILLIAN M. REYES, P.E. No. 50780 (ELECTRICAL, INSTRUMENTATION)

TOPOGRAPHIC SURVEY MASTER LIFT STATION #1 REHABILITATION, JUPITER, PALM BEACH COUNTY, FLORIDA

SURVEY PREPARED BY:

MATHEWS CONSULTING, A BAXTER & WOODMAN COMPANY, 477 S. ROSEMARY AVE, #330, WEST PALM BEACH, FLORIDA 33401, OFFICE: 561-655-6175

MAP OF SURVEY:

THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER.

LEGAL DESCRIPTION:

NOT APPLICABLE.

1. ALL MEASUREMENTS, DISTANCES, ELEVATIONS AND FEATURES WERE PERFORMED IN STRICT ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS SET FORTH IN CHAPTER 5J-17.050, 5J-17.051 AND 5J-17.052 FLORIDA ADMINISTRATIVE CODE.

2. METHODS FOR ALL CONTROL MEASUREMENTS WERE MADE WITH A TRANSIT AND STEEL TAPE, OR DEVICES WITH EQUIVALENT OR HIGHER DEGREES OF

3. THE ACCURACY STANDARD USED FOR THIS SURVEY, AS CLASSIFIED IN THE MINIMUM TECHNICAL STANDARDS 5J-17.050, 5J-17.051 AND 5J-17.052 F.A.C., IS "COMMERCIAL HIGH RISK". THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF SURVEY IS 1 FOOT IN 10,000 FEET. THIS SURVEY IS BASED ON REPETITIVE RTK GPS AND ROBOTIC TOTAL STATION OBSERVATIONS ON MULTIPLE PROJECT HORIZONTAL AND VERTICAL CONTROL POINTS TO OBTAIN A REDUNDANCY OF MEASUREMENT. HORIZONTAL AND VERTICAL CLOSURE ACHIEVED, EXCEED THE MINIMUM ACCURACY REQUIREMENTS FOR THIS SURVEY.

DATA SOURCES:

- 1. THOSE CERTAIN PLATS AND DATA WERE UTILIZED IN THE PREPARATION OF THIS SURVEY:
- SUMMERWOOD, P.B. 62, PG. 45
- PALM BEACH COUNTY GIS DATA

2. MULTIRESOLUTION SEAMLESS IMAGES (MrSID), DOWNLOADED FROM LAND BOUNDARY INFORMATION SYSTEM (LABINS) WWW.LABINS.ORG, WERE UTILIZED IN THE PREPARATION OF THIS SURVEY.

3. ELEVATIONS SHOWN HEREON ARE IN FEET AND REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). PARENT BENCH MARK:PALM BEACH COUNTY VERTICAL CONTROL STATION, DESIGNATION TOPENN JU-HIGH, ELEVATION = 6.355 FEET.

4. BEARINGS AND COORDINATES SHOWN HERE ON ARE IN FEET AND REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE, NATIONAL GEODETIC SURVEY (NGS) NORTH AMERICAN DATUM (NAD) OF 1983/1990, UTILIZING THE GPS RTK NETWORK. PARENT CONTROL STATIONS: PALM BEACH COUNTY CONTROL STATION TOPENN JU-HIGH NETWORK POINTS: E90, NORTHING = 943,514.8820 FEET, EASTING = 948,713.9210 FEET

5. HORIZONTAL / VERTICAL CONTROL POINTS USED FOR THIS SURVEY: CONTROL POINT 1, SET NAIL , "NO ID", NORTHEAST CORNER OF PROPERTY IN DRIVEWAY, NORTHING 946,088.05 FEET, EASTING 946,351.89 FEET, ELEVATION = 10.22 FEET AND CONTROL POINT 4, SET NAIL,SOUTHWEST CORNER OF PROPERTY IN PAVEMENT, NORTHING 946,048.13 FEET, EASTING 946,297.29 FEET, ELEVATION = 11.01 FEET. AS SHOWN ON THE MAP OF SURVEY.

6. BY GRAPHIC PLOTTING ONLY, THE SUBJECT PROPERTY LIES WITH ZONE C, AREAS OF MINIMAL FLOODING (NO SHADING), AS SHOWN ON THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 125119 0002 D, PANEL 2 OF 6, MAP EFFECTIVE DATE: SEPTEMBER 30, 1982.

7. ALL SUBSURFACE LOCATIONS DEPICTED HEREON ARE AS MARKED OUT IN THE FIELD BY LOXAHATCHEE ROVER ENVIRONMENTAL CONTROL DISTRICT. MATHEWS CONSULTING, INC. ASSUMES NO LIABILITY AS TO THE ACCURACY OF THE SUBSURFACE LOCATIONS AS MARKED OUT BY OTHERS.

LIMITATIONS:

1. PURPOSE OF SURVEY: LOCATE SELECTED NATURAL AND ARTIFICIAL FEATURES OF A PART OF THE EARTH'S SURFACE TO DETERMINE HORIZONTAL AND VERTICAL SPATIAL RELATIONS TO BE UTILIZED FOR THE PURPOSE OF DESIGN.

2. LAST FIELD DATE OF SURVEY: 10/07/2016, AS REFERENCED IN ELECTRONIC SURVEY DATA FILES.

3. THIS IS NOT A BOUNDARY SURVEY.

4. PRINTED DIMENSIONS SHOWN ON THE SURVEY SUPERSEDE SCALED DIMENSIONS. THERE MAY BE ITEMS DRAWN OUT OF SCALE TO GRAPHICALLY SHOW

5. USE OF THIS SURVEY BY ANYONE OTHER THAN THOSE PREPARED FOR OR CERTIFIED TO, WILL BE THE RE-USERS SOLE RISK WITHOUT LIABILITY TO THE

6. SHOWN ANYWHERE ON THIS SURVEY, THE WORD "CERTIFY" IS UNDERSTOOD TO BE AN EXPRESSION OF A PROFESSIONAL OPINION BASED UPON THE SURVEYOR'S BEST KNOWLEDGE, INFORMATION AND BELIEF, AND THAT IT CONSTITUTES NEITHER A GUARANTEE NOR A WARRANTY

BOUNDARY INCONSISTENCIES:

NOT APPLICABLE.

LEGEND:

ASPH. = ASPHALT BPP = BLACK PLASTIC PIPE ATT = AT&T TELEPHONEC/L = CENTERLINEC = CALCULATED

CFT = CALCULATED FROMFIELD TRAVERSE CLF = CHAIN LINK FENCE

CLP = CONCRETE LIGHT POLE CMP = CORRUGATED METAL PIPE CONC. = CONCRETECP = CONCRETE PIPE D = CENTRAL ANGLE

DIP = DUCTILE IRON PIPE DEP. = DEPRESSED (CURB)EL. = ELEVATIONEP = EDGE OF PAVEMENT

EOW = EDGE OF WATER F.D.O.T. = FLORIDA DEPARTMENTOF TRANSPORTATION F.P.L. = FLORIDA POWER AND LIGHT FND = FOUND

SYMBOL LEGEND:

BFP BACK FLOW PREVENTER

FIRE HYDRANT

CPP CONCRETE POWER POLE

FO▽ FIBER OPTIC MARKER

▶ GROUND LIGHT

EM ELECTRIC METER

EBO ELECTRIC BOX

KP KEY PAD

PARKING METER

RCWV RECLAIMED WATER VALVE

WOOD POWER POLE

♦——☆ WOOD POLE STREET LIGHT

ELECTRIC HANDHOLE

UNKNOWN HANDHOLE

IRRIGATION CONTROL VALVE IN CONC. BOX

₩ CABLE/TV HANDHOLE

X 0.00 EXISTING ELEVATION

W WATER METER

IV MIRRIGATION VALVE

SV 🔀 SANITARY VALVE

WV WATER VALVE

SPIGOT

——— SIGN

Ø DIAMETER

PRM = PERMANENT REFERENCE MARKER PVC = POLYVINYL CHLORIDER = RADIUS

GAR. = GARAGE

INV = INVERT

L. = LENGTH

L.F. = LINEAR FEET

MP = METAL PIPE

N/A = NOT ACCESSIBLE

OHW = OVERHEAD WIRE

PBC = PALM BEACH COUNTY

PK = PARKER-KALON BRAND

PRK MTR = PARKING METER

PP = PLASTIC PIPE

R/C = ROD AND CAP

⇒ = ELECTRIC OUTLET

CATCH BASIN

W = WHITE FLAG

BLUE FLAG

Y = YELLOW FLAG

= ORANGE FLAG

S = GREEN FLAG

-BPM- BLUE PAINT MARKS

-GPM- GREEN PAINT MARKS

-OPM- ORANGE PAINT MARKS

-- PPM-- PURPLE PAINT MARKS

- YPM- YELLOW PAINT MARKS

-- RPM-- RED PAINT MARKS

-- WPM--- WHITE PAINT MARKS

SPRINKLER HEAD

WOOD GUIDE POLE

TRAFFIC SIGNAL POLE

MONITORING WELL

M MAILBOX

☑ TRASH CAN

ELECTRICAL PANEL

G.T. GAS TEST BOX

TRAFFIC HANDHOLD

RISER UNKNOWN RISER BOX

CONCRETE UTILITY POLE

R = RED FLAG

P.B. = PLAT BOOK

PG. = PAGE

N/D = NAIL AND DISK

I.R.C. = IRON ROD & CAP

LSA = LANDSCAPE AREA

L.W.D.D. LAKE WORTH DRAINAGE DISTRICT

P.B.C.R. = PALM BEACH COUNTY RECORDS

HDPE = HIGH DENSITY POLYETHYLENE PIPE

RCP = REINFORCED CONCRETE PIPE R/W = RIGHT OF WAYRWM = RIGHT OF WAY MAPRLS = REGISTERED LAND SURVEYOR

SEC. = SECTIONSTA. = STATION T.O.N. = TOP OF NUT

T.O.P. = TOP OF PIPET.O.W. = TOP OF WALLU.E. = UTILITY EASEMENT UNK = UNKNOWN VERT. = VERTICAL

V.G. = VALLEY GUTTER

VCP = VITRIFIED CLAY PIPE WPP = WOOD POWER POLE PP = PLASTIC PIPE G.U.E. = GENERAL UTILITY EASEMENT

S.E. = SEWER EASEMENT W.E. = WATER EASEMENT P.E. = PUBLIC EASEMENT

(A) AIR RELEASE VALVE (F) FPL MANHOLE MANHOLE UNKNOWN TYPE DECORATIVE MAILBOX SANITARY MANHOLE

(D) STORM MANHOLE LIMITS OF LANDSCAPING :LSA: LIMITS OF TREE CANOPY BUSH/HEDGE

CO O CLEAN OUT

SITE BENCHMARK

MONITORING WELL

SET NAIL AND DISC LB #6599

O O GUARD RAIL DECORATIVE LIGHT POST

> CONCRETE LIGHT POST (GAS) GAS LID T TRAFFIC SIGNAL BOX

FIBER OPTIC HANDHOLE U.GAS UNDERGROUND GAS MARKER

YD # YARD DRAIN YD SQUARE YARD DRAIN

TREE LEGEND:

00" grapaya 00" # - UNKNOWN OO" - ACACIA 00" CACTUS 00" CYPRESS 00" ಕ್ಷೇತ್ರ – BOTTLEBRUSH 00" — PALM SPECIES 00" — MAPLE 00" 🏶 - BANANA

(ATT) AT&T TELEPHONE MANHOLE CONCRETE PARKING STOP

SITE BENCHMARK:

FINISH FLOOR ELEVATION OF BUILDING

ELEV.=11.67 (NGVD 29)

SITE CONTROL:

CP #1 SET PK NAIL ELEV.=10.22 (NGVD 29) N 946,088.05 E 946,351.89

CP #4 SET PK NAIL ELEV.=11.01 (NGVD 29) N 946,048.13 E 946,297.29

- FICUS 00" - SEAGRAPE

00" {\}-MAHOGANY

MANGO 00" GUMBO-LIMBO MM - HEDGE 😂 – BUSH

— Indicates trunk NOTE: VERIFICATION OF TREE SPECIES SHOULD BE CONDUCTED BY A PROFESSIONAL ENGAGED IN THE FIELD OF NATURAL SCIENCE

DATE ISSUED FOR DESIGNED: J.A.P. DRAWN: J.A.J. CHECKED: A.C. APPROVED: D.L.M.

JASON A. PUGSLEY, P.E. No. 67426

a BAXTER WOODMAN company 477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401

Phone: 561-655-6175 • Fax: 561-655-6179

www.baxterwoodman.com EB-31795

BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

ENGINEER NO.: 160963

PROJECT NO.:160963

CAD REF.: 160963G-SVY

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT MASTER LIFT STATION No. 1 REHABILITATION

SURVEY LEGEND AND NOTES

DATE: APRIL 2018

SHEET: 2 of 31

DRAWING: G-2

ADMINISTRATION AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES SHALL BE STRICTLY OBSERVED.

3. ALL CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION OVER THE R/W WHERE THE

4. CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AT ALL TIMES DURING CONSTRUCTION AND SHALL BE REQUIRED TO PROVIDE ALL BARRICADES, LIGHTING, SIGNAGE AND FLAGMEN AS NECESSARY TO PROVIDE FOR THE SAFETY OF THE PUBLIC IN THE WORK AREA. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN FOR APPROVAL. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE APPROPRIATE AGENCIES A MINIMUM OF 2 WEEKS PRIOR TO START OF CONSTRUCTION.

5. CONTRACTOR SHALL PREPARE AND SUBMIT MOT PLANS TO TOWN OF JUPITER OR FDOT (AS APPROPRIATE) & LOXAHATCHEE RIVER DISTRICT FOR REVIEW AND APPROVAL FOR WORK TO BE DONE WITHIN OR ADJACENT TO IMPROVED RIGHT-OF-WAY.

6. CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY AT ALL TIMES.

7. LOCATIONS OF EXISTING FACILITIES AS SHOWN ON CONSTRUCTION DRAWINGS ARE APPROXIMATE AND ARE DRAWN FROM AVAILABLE RECORDS. THE FNGINFER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FACILITIES SHOWN NOR FOR ANY FACILITY NOT SHOWN. THE CONTRACTOR SHALL LOCATE OR EXPOSE ALL UTILITIES WITHIN THE PROPOSED WORK AREAS AND AT CRITICAL LOCATIONS TO VERIFY UTILITY LOCATIONS AND PIPE LAYING SCHEDULES PRIOR TO SUBMITTING SHOP DRAWINGS. THIS SHALL BE DONE WITHIN 30 DAYS AFTER NOTICE TO PROCEED. THE INFORMATION OBTAINED (ELEVATION, SEPARATION DISTANCE, PIPE MATERIAL AND SIZE, ETC.) SHALL BE MADE PART OF THE CONTRACTOR'S SUBMITTAL FOR ALL PIPING.

8. CONTRACTOR SHALL OBTAIN THE SERVICES OF SUNSHINE STATE ONE CALL OF FLORIDA (811), INC. AS REQUIRED BY FLORIDA STATUTES. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES.

9. FORCEMAINS ARE TO BE LAID WITHIN 0.2 FEET OF THE DESIGN PROFILE.

10. COVER SHALL BE A MINIMUM OF 3.0 FEET (TYPICAL) FOR FORCEMAINS UNLESS OTHERWISE NOTED ON DRAWINGS

11. ALL DELETERIOUS MATERIAL SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.

12. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.

13. 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 TRAFFIC.

14. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION FROM PALM BEACH COUNTY.

15. CONTRACTOR SHALL MAINTAIN HIS WORK WITHIN R/W AND EASEMENT LIMITS UNLESS OTHERWISE NOTED ON DRAWINGS.

16. CONTRACTOR SHALL PROMPTLY REPAIR AND RESTORE EXISTING PAVEMENT, SIDEWALKS, CURB, DRIVEWAYS, PIPES, RESIDENTIAL AND COMMERCIAL SPRINKLER LINES, CONDUIT, CABLES, ETC. AND LANDSCAPE AREAS DAMAGED AS A RESULT OF THE CONSTRUCTION ACTIVITIES. THIS WORK SHALL BE CONSIDERED INCIDENTAL. ALL SIDEWALK REPAIRS AND RESTORATIONS SHALL BE CONSTRUCTED PER THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION LATEST EDITION.

17. EXISTING TRAFFIC SIGNS TO BE RESET PER FDOT STANDARDS.

18. CONTRACTOR SHALL ADJUST ALL UTILITY CASTING INCLUDING SANITARY SEWER MANHOLE TOPS, INLETS, VALVE BOXES AND SIMILAR STRUCTURES AS REQUIRED TO MEET FINAL GRADES.

19. CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO LOCATE, EXCAVATE AND PREPARE FOR CONNECTIONS TO THE EXISTING SYSTEMS ALL AS SHOWN ON THE DRAWINGS.

20. THE CONTRACTOR SHALL SCHEDULE INSPECTIONS AND TESTS WITH THE DISTRICT & ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE.

21. CONTRACTOR SHALL NOT DISTURB EXISTING TOWN OF JUPITER (TOJ) WATER MAINS OR FDOT DRAINAGE FACILITIES WITHOUT THE PRESENCE OF A DISTRICT. CITY OR FDOT INSPECTOR. TOJ UTILITY SYSTEM VALVES AND APPURTENANCES MAY ONLY BE OPERATED BY TOJ PERSONNEL.

22. SITE INFORMATION BASED ON A SURVEY PREPARED BY: BAXTER & WOODMAN

23. CLEARING AND GRUBBING SHALL INCLUDE REMOVAL OF ALL VEGETATION WITHIN RIGHT-OF-WAY AS REQUIRED TO CONSTRUCT THE REQUIRED IMPROVEMENTS.

24. PROJECT SITE SAFETY:

A. THE ENGINEER/OWNER OR THEIR EMPLOYEES HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER THE CONTRACTOR, ANY SUB-CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY JOBSITE HEALTH OR SAFETY PRECAUTIONS.

B. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY, AND WARRANTS THAT THIS INTENT IS MADE EVIDENT BY THE AGREEMENT BETWEEN

C. ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS OR ENCOUNTERED THROUGH THE PROGRESSION OF WORK AT THIS PROJECT SITE ARE ASSUMED TO BE LIVE, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS WHEN WORKING AROUND EXISTING OVERHEAD OR UNDERGROUND UTILITIES.

25. THE CONTRACTOR SHALL COORDINATE AND EMPLOY THE SERVICES OF FPL TO SUPPORT ANY EXISTING POWER POLES WITHIN THE IMMEDIATE VICINITY OF TRENCHES OR AS REQUIRED TO ALTER OR MODIFY THE EXISTING SITE ELECTRICAL SERVICE.

26. CONTRACTOR SHALL LIMIT THE CONSTRUCTION IMPACTS TO PUMP STATION AS SHOWN ON THE PLANS. THE COST OF THE SHEETING, SHORING, ETC. FOR TRENCHING SHALL BE INCLUDED IN THE LUMP SUM PROJECT COST.

27. CONTRACTOR TO ACQUIRE STAGING AREA(S) AS REQUIRED. COORDINATE WITH THE DISTRICT OR PRIVATE LAND-OWNERS. THE CONTRACTOR SHALL VERIFY THE OWNERSHIP OF THE LAND TO BE USED AS THE STAGING AREA. THE LAND-OWNER SHALL BE COMPENSATED FOR SUCH USE OF THE LAND.

28. SURVEY INFORMATION TAKEN FROM EXISTING RECORD DRAWINGS PROVIDED BY THE DISTRICT AND ADDITIONAL FIELD SURVEY. PIPE SIZES (OUTSIDE AND INSIDE DIAMETERS) SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION. NOT ALL EXISTING PIPE WAS ACCESSIBLE FOR VERIFICATION AND ASSUMPTIONS

29. 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 TOWN OF JUPITER.

30. IN GENERAL, EXISTING STRUCTURES AND UTILITIES ARE NOTED AS EXISTING AND/ OR SHOWN IN LIGHT LINE WEIGHT. NEW CONSTRUCTION IS SHOWN IN

31. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES.

32. A VIDEO TAPE SHALL BE MADE OF THE ENTIRE CONSTRUCTION AREA. THE TAPE SHALL DOCUMENT THE CONDITIONS OF ALL ADJACENT PROPERTY, FENCES, DRIVEWAYS, IRRIGATION, MAIL BOXES AND OTHER SUCH FEATURES. PARTICULAR ATTENTION SHOULD BE PAID TO ITEMS BROKEN OR IN DISREPAIR PRIOR TO CONSTRUCTION, SUCH THAT THERE WILL BE FULL UNDERSTANDING OF THE REQUIREMENTS FOR RESTORATION AFTER CONSTRUCTION IS COMPLETED.

GENERAL INFORMATION

AT&T TELEPHONE, FLORIDA POWER AND LIGHT, CABLE TV, GAS, ETC. ARE TAKEN FROM FIELD INSPECTIONS AND SKETCHES PROVIDED BY UTILITIES AND ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL CONTACT ALL UTILITY OWNERS AND CONFIRM LOCATIONS OF UTILITIES NO LESS THAN 48 HOURS BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ACCURATELY LOCATE AND UNCOVER ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION WHERE CROSSING OR PARALLELING OF EXISTING UTILITIES OCCUR. ANY DAMAGE RESULTING FROM THE CONTRACTORS OPERATION SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

ALL MATERIALS SHALL CONFORM TO LOXAHATCHEE RIVER DISTRICT OR TOWN OF JUPITER CONSTRUCTION STANDARDS & TECHNICAL SPECIFICATIONS,

EROSION CONTROL

DATE

ISSUED FOR

ALL STORM SEWER INLET GRATES TO BE COVERED WITH FILTER FABRIC DURING CONSTRUCTION.

2. CUT AND FILL SLOPES TO BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SILT FENCES TO BE USED WHERE NECESSARY

3. CONSTRUCTION VEHICLE ACCESS ROUTES SHALL BE SWEPT CLEAN OF SEDIMENT, CONCRETE AND OTHER CONSTRUCTION MATERIALS AS NEEDED.

4. ALL BERMS, DIKES AND SPOIL PILES SUBJECT TO EROSION MUST BE STABILIZED OR CONTAINED TO PREVENT EROSION AND RUNOFF FROM THE PROJECT.

5. THE QUALITY OF THE DISCHARGE WATER FROM DEWATERING AND CONSTRUCTIONS ACTIVITIES SHALL MEET STATE WATER QUALITY STANDARDS.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND PERMITTING OF A STORMWATER POLLUTION PREVENTION PLAN FOR THE PROJECT.

APRV'D BY

DESIGNED:

APPROVED: D.L.M.

J.A.P.

JASON A. PUGSLEY, P.E.

No. 67426

DRAWN: J.A.J. CHECKED: A.C.

ENGINEERING LEGEND

OPEN CUT TRENCH & PAVEMENT RESTORATION

PROPOSED ASPHALT PAVEMENT EXISTING ASPHALT PAVEMENT

 \boxtimes LIMITS OF CLEARING & GRUBBING AND/OR DEMOLITION

→ DIRECTION OF EXISTING FLOW 1.50 EXISTING ELEVATION

(18.24) PROPOSED ELEVATION TB-1 ● SOIL BORING LOCATION

----FO----- EXISTING BURIED FIBER OPTICS ----- ws ----- EXISTING WATER SERVICE — EXISTING BURIED ELECTRIC

-----RWM ----- EXISTING BURIED RECLAIMED WATER MAIN

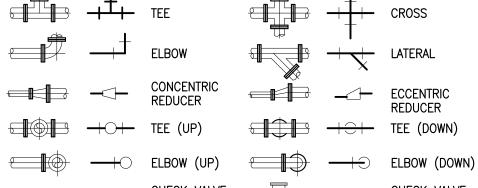
——OHW—— EXISTING OVERHEAD WIRE ———— SIG ——— EXISTING BURIED TRAFFIC SIGNAL

EXISTING ABOVE GRADE PIPE PROPOSED ABOVE GRADE PIPE ☐ EXISTING BELOW GRADE PIPE

PROPOSED BELOW GRADE PIPE

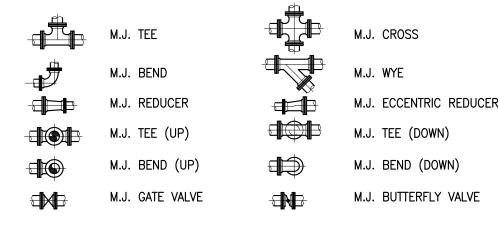
PIPE FITTING SYMBOLS

FLANGED



GATE VALVE → ► BUTTERFLY VALVE

MECHANICAL JOINT



MISCELLANEOUS

FLEXIBLE COUPLING

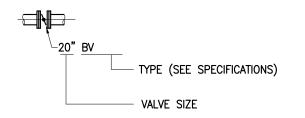
FLEXIBLE COUPLING WITH THRUST TIES FLANGED COUPLING ADAPTER

FLANGED COUPLING ADAPTER WITH THRUST TIES

 $-\infty$ BALL VALVE **−**|S||— SOLENOID VALVE

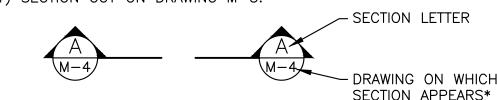
→o>→ BALL CHECK VALVE

VALVE IDENTIFICATION (MANUAL & CHECK

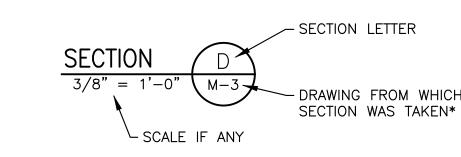


SECTION IDENTIFICATION

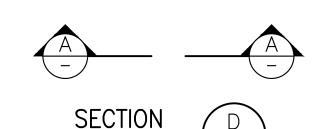
(1) SECTION CUT ON DRAWING M-3:



(2) ON DRAWING M-4 THIS SECTION IS IDENTIFIED AS:



IF PLAN AND SECTION ARE SHOWN ON SAME DRAWING. DRAWING NUMBER IS REPLACED BY A DASH. AS SHOWN



BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINA DRAWING. ADJUST SCALES AS NECESSARY.

CLIENT PROJECT NO.:160963

ENGINEER NO.: 160963

ENGINEERING ABBREVIATIONS

AASHTO AMERICAN ASSOCIATION OF STATE HIGHWAY AND INV EL INVERT ELEVATION TRANSPORTATION OFFICIALS IPS IRON PIPE SIZE A/C AIR CONDITIONER IRR IRRIGATION AG AMMONIA GAS ISO ISOMETRIC AL OR ALUM ALUMINUM JT JOINT ADDIT ADDITIONAL LBS/FT POUNDS PER FOOT AL ORALUM ALUMINUM LF LINEAR FEET APPROX APPROXIMATELY LG LONG ARV AIR RELEASE VALVE LME LAKE MAINTENANCE EASEMENT ASPH ASPHALT LP LOW POINT ASSY ASSEMBLY LWL LOW WATER LEVEL BCCSHFP BITUMINOUS COATED CORRUGATED STEEL HIGH FLOW PIPE MANUF MANUFACTURER BFP BACKFLOW PREVENTOR MAX MAXIMUM MC MEMBRANE CONCENTRATE BLDG BUILDING MECH MECHANICAL BLK BLOCK MH MANHOLE BOP BOTTOM OF PIPE MIN MINIMUM BOTT OR BTM BOTTOM MJ MECHANICAL JOINT BV BUTTERFLY VALVE NIC NOT IN CONTRACT CATY CABLE TELEVISION NO NUMBER CB CATCH BASIN NPT NATIONAL PIPE THREAD CBS CONCRETE BLOCK STRUCTURE CC CENTER TO CENTER NTS NOT TO SCALE CV CHECK VALVE OC ON CENTER CHATT CHATTAHOOCHE OD OUTSIDE DIAMETER CHL CHLORINE OF OUTSIDE FACE CL CLEARANCE OPNG OPENING CLR CLEAR OR CLEARANCE PE PLANT EFFLUENT CLS CHLORINE SOLUTION LINE PI PLANT INFLUENT CO CLEAN OUT PL PLAT P/L PROPERTY LINE COL COLUMN PR PAIR CONC CONCRETE CONST CONSTRUCT OR CONSTRUCTION PRB POLLUTION RETARDENT BAFFLE CONT CONTINUOUS PRV PRESSURE RELIEF VALVE DBL DOUBLE PVC POLYVINYLCHLORIDE DE DRAINAGE EASEMENT PW POTABLE WATER DET DETAIL R OR RAD RADIUS DFM PLANT DRAIN FORCE MAIN RAS RETURN ACTIVATED SLUDGE DIA DIAMETER RC RECLAIMED WATER DIAG DIAGONAL RCP REINFORCED CONCRETE PIPE DIM DIMENSION RED REDUCER DIP DUCTILE IRON PIPE REINF REINFORCING DIPS DUCTILE IRON PIPE SIZE REQ'D REQUIRED DWG DRAWING RPR RESIDENT PROJECT DWN DOWN DR DIAMETER RATIO RJ RESTRAINED JOINT EA EACH R/W RIGHT OF WAY ECC ECCENTRIC RWM RECLAIMED WATER MAIN EP OR EOP EDGE OF PAVEMENT SAN SANITARY EF EACH FACE SAN SANITARY SEWER EFF EFFLUENT SCH SCHEDULE ELECT ELECTRIC EL OR ELEV ELEVATION SECT SECTION EQUIP EQUIPMENT SHT SHEET EQUIP MFRS EQUIPMENT MANUFACTURER(S) SIG TRAFFIC SIGNAL CONDUIT ER EQUALIZATION RETURN SPEC SPECIFICATION EW EACH WAY SQ SQUARE EXIST EXISTING SS STORM SEWER

> SS OR SST STAINLESS STEEL STA STATION STD STANDARD STL STEEL STORM STORM DRAINAGE STRUCT STRUCTURE STY STORY S/W SIDEWALK TB TEST BORING

REPRESENTATIVE

TELE TELEPHONE TEMP TEMPERATURE OR TEMPORARY TH TEST HOLE THD THREADED THK THICK

TOP TOP OF PIPE TOS TOP OF SLAB OR TOP OF STEEL TYP TYPICAL VERT VERTICAL W WIDE

W/ WITH WAS WASTE ACTIVATED SLUDGE WTR WATER W/L WATER LEVEL

WM WATER MAIN

WWF WELDED WIRE FABRIC

DATE: APRIL 2018

SHEET: 3 of 31

DRAWING: G-3

a BAXTER WOODMAN company

477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401 Phone: 561-655-6175 • Fax: 561-655-6179 www.baxterwoodman.com EB-31795

CAD REF.: 160963G-L&N

GENERAL NOTES AND INFORMATION

LOXAHATCHEE RIVER

ENVIRONMENTAL CONTROL DISTRICT

MASTER LIFT STATION No. 1 REHABILITATION

EXP EXPANSION

FF FINISH FLOOR

FH FIRE HYDRANT

FO FIBER OPTIC

FM FORCE MAIN OR FIRE MAIN

GAL GALVANIZED OR GALLON

GSP GALVANIZED STEEL PIPE

GST GROUND STORAGE TANK

HDD HORIZONTAL DIRECTIONAL DRILL

HDPE HIGH DENSITY POLY ETHYLENE

GAS NATURAL GAS MAIN

EXT EXTERIOR

FIN FINISH

FL FLOOR

FLG FLANGE

FTG FOOTING

GR GRADE

H HIGH

GV GATE VALVE

HP HIGH POINT

HWL HIGH WATER LEVEL

IE INVERT ELEVATION

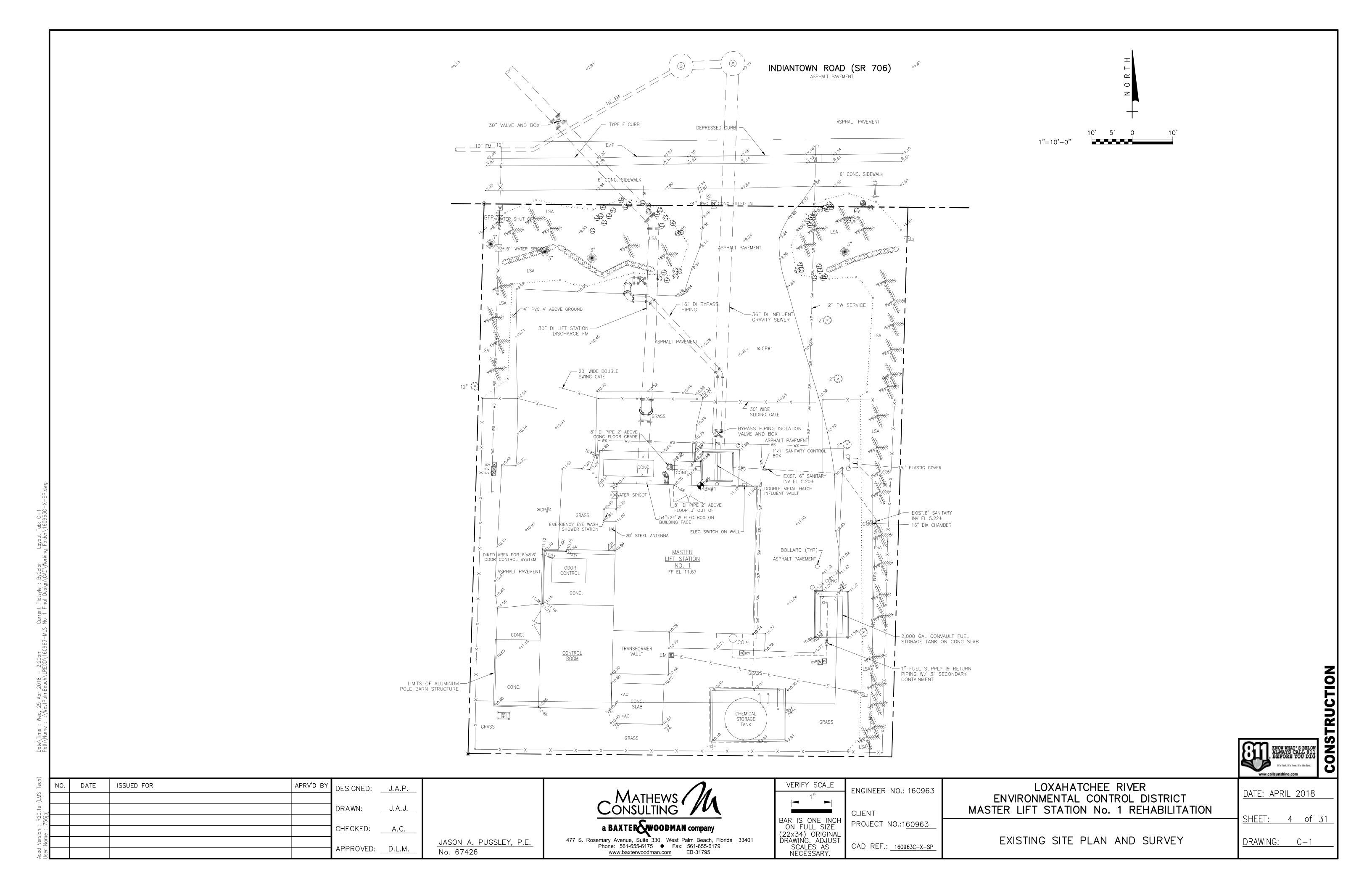
ID INSIDE DIAMETER

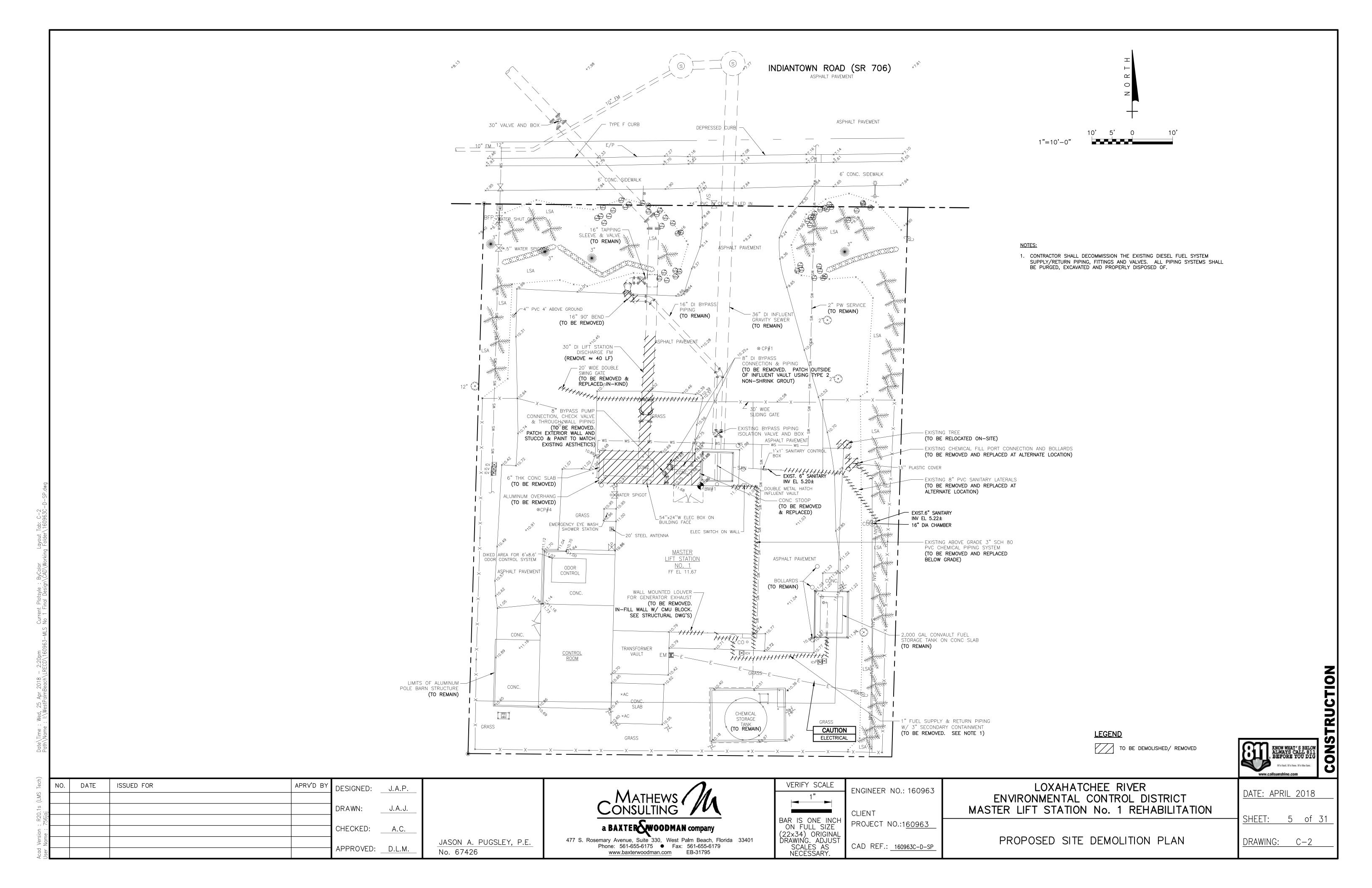
HORIZ HORIZONTAL

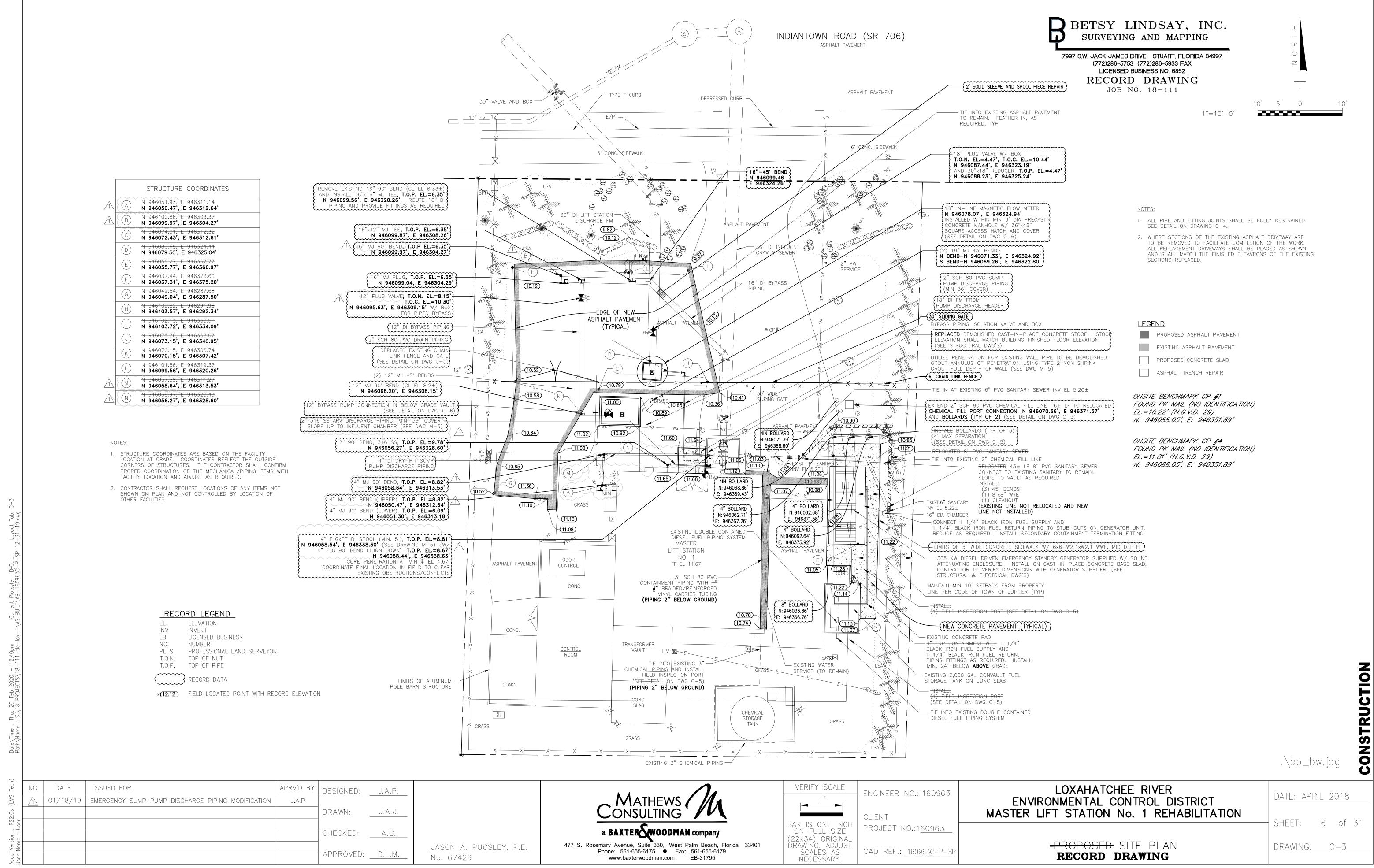
INF INFLUENT

INJ INJECTION

INSUL INSULATION







- INSPECTIONS SUCH AS, FINAL INSPECTION, PRESSURE TESTS, SANITARY SEWER LAMPING OR ANY OTHER ELEMENT OF THE SYSTEM WHICH IS DETERMINED BY THE DISTRICT TO REQUIRE CLARIFICATION.
- 2. THE DRAWINGS WILL BE REVIEWED BY THE DISTRICT FOR DEFICIENCIES. DEFICIENCIES WILL BE INDICATED ON ONE (1) SET OF PRINTS WHICH WILL BE RETURNED TO THE E.O.R. OR CONTRACTOR FOR NECESSARY CORRECTIVE ACTION. 3. UPON CORRECTION, TWO (2) SETS OF PRINTS (SIGNED/SEALED BY A FLORIDA LICENSED SURVEYOR) SHALL BE SUBMITTED.
- 4. NO DISCLAIMERS ON DRAWINGS WILL BE ACCEPTED. 5. UPON FINAL SUBMITTAL OF RECORD DRAWINGS, AN AUTOCAD VER. 2009 OR LATER AND ADOBE .PDF (24"X36")
- ELECTRONIC DATA FILE SHALL BE FURNISHED ON A CD-R DISK TO THE DISTRICT. ONLY ONE CAD FILE WITH ALL SHEETS
- 6. ALL SEWER ITEMS SHALL BE CATEGORIZED AND ASSIGNED TO THE DRAWING LAYERS SUCH AS: AB-MANHOLES, AB-FORCEMAIN, AB-VALVE, AB-GRAVITY MAIN, ETC.
- 7. REDRAW ALL SEWER LINES AND INFRASTRUCTURE ON RECORD DRAWINGS AS CONSTRUCTED HORIZONTALLY & VERTICALLY. USING ORIGINAL DESIGN LINEWORK & ONLY UPDATING THE CORRESPONDING TEXT CALLOUTS WILL NOT BE ACCEPTED AS RECORD DRAWINGS

REQUIRED INFORMATION ON RECORD DRAWINGS

- 1. DRAWINGS ON 24" X 36" BOND PAPER THAT WILL REPRODUCE LEGIBLY.
- 2. LABEL DRAWINGS "RECORD DRAWINGS" WITH DATE. COMPLETE TITLE BLOCK WITH CURRENT FILE NAME.
- 3. DRAWINGS SHALL BE SIGNED / SEALED BY A FORIDA LICENSED PROFESSIONAL LAND SURVEYOR. 4. CORRECT STREET/ROAD NAMES AND LOT AND BLOCK NUMBERS.
- 5. SHOW AS-BUILT CONSTRUCTED SEWER FACILITIES HEAVIED UP, BOLD OR BOXED OUT TO STAND OUT FROM REST OF
- 6. ALL ITEMS LISTED BELOW MUST BE CORRECTLY GEOREFERENCED WITH NORTHINGS/EASTINGS CLEARLY SHOW. THE AS BUILTS SHALL BE GEOREFERENCED TO THE STATE PLANE COORDINATES IN NAD 83, FLORIDA EAST ZONE, WHILE THE VERTICAL DATUM SHALL BE NGVD 29.

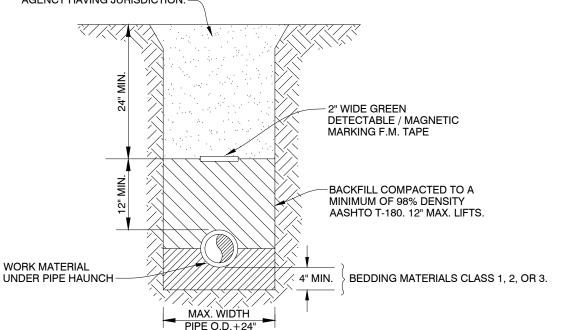
GENERAL

- 1. AS-BUILT DISTANCE OF GRAVITY MAIN FROM CENTER LINE OF ROAD OR EASEMENT RIGHT- OF-WAY LINE, BUILDINGS. OR AS DETERMINED BY THE LOXAHATCHEE RIVER DISTRICT. EXTENSIONS OF AN IMAGINARY LINE WILL NOT BE
- ACCEPTABLE AS REFERENCED POINTS. 2. TYPE OF MATERIALS INSTALLED - MAINS AND SERVICES.
- 3. SHOW EACH SEWER SERVICE LATERAL INCLUDING THE CONNECTION TO THE MAIN AND PROVIDE THE NORTHING & EASTING POINTS FOR EACH CLEANOUT & INDICATE CLEANOUT DIAMETER.
- 4. AS-BUILT LOCATIONS OF MANHOLES WITH A NORTHING & EASTING PROVIDED.
- 5. AS-BUILT ELEVATIONS, RIM ELEVATION, EACH INVERT AND PIPE SLOPE.
- 6. UPDATE LIFT STATION DETAILS/ELEVATIONS INCLUDING START UP DATA. 7. LIFT STATION AND UTILITY EASEMENTS, INCLUDING LOCATION OF F.P.&L. SERVICE TO CONTROL PANEL.

- 1. AS-BUILT DISTANCE OF MAINS AT 100' INTERVALS FROM CENTER LINE OF ROAD, EASEMENT, RIGHT-OF-WAY LINE, BUILDINGS, SEWER MAINS OR AS DETERMINED BY THE LOXAHATCHEE RIVER DISTRICT. EXTENSIONS OF AN
- IMAGINARY LINE WILL NOT BE ACCEPTABLE AS REFERENCED POINTS. 2. SHOW ELEVATIONS, NORTHING/EASTING OF EACH VALVE, FITTING, AIR RELEASE VALVE, SERVICE LINE, TAP, ETC., AND
- RADIAL DIMENSIONS (TIES) FROM A NEARBY PERMANENT OBJECT WHERE POSSIBLE. (SEE NOTE NO. 6 IN GENERAL). 3. TYPE OF MATERIALS INSTALLED - PIPE AND APPURTENANCES. INDICATE ALL LOCATIONS OF CHANGE OF MATERIAL
- INCLUDING JOINT TYPE (M.J., SLIP, RESTRAINED). 4. VALVE TYPE (BUTTERFLY, GATE, PLUG) INCLUDING THE NORTHING & EASTING POINT.
- 5. AS-BUILT LENGTH OF ALL JACK AND BORE CASINGS INDICATING DISTANCE FROM CENTER LINE OF PAVING TO EACH END OF CASING. THE AS-BUILT INVERT ELEVATION OF EACH END OF CASING, (INCLUDING NORTHING/EASTING) AND AS-BUILT DISTANCE FROM EACH END OF CASING TO LIMITS OF MECHANICAL JOINT PIPE IS ALSO REQUIRED.
- 6. AS-BUILT ELEVATIONS AT 100' INTERVALS AS WELL AS ANY MAJOR CHANGES IN DIRECTION AND/OR ELEVATION. ELEVATIONS SHOWN AT THESE INTERVALS AND CHANGES MUST SHOW TOP OF PIPE ELEVATION, NORTHING/EASTING
- AND FINISHED GRADE ELEVATION AT THAT LOCATION. SHOW LOCATION OF EMS MARKERS. 7. UTILITY EASEMENTS SHALL BE CORRECTLY SHOWN AND DIMENSIONED WITH REFERENCED SEWER FACILITY.

RECORD DRAWING SUBMITTAL GUIDE (SD-29)

REMAINDER OF BACKFILL MAY BE PLACED BY MACHINE AND COMPACTED TO A MINIMUM OF 95% DENSITY PER AASHTO T-180 (12" MAX, LIFTS), OR PER AGENCY HAVING JURISDICTION. -



CLASS 1 MATERIAL - ANGULAR .25" TO .75" GRADED STONE SUCH AS CORAL, CRUSHED STONE, OR CRUSHED SHELLS OR BEDDING ROCK (100% PASSING 1" SIEVE).

CLASS 2 MATERIAL - COURSE SAND AND GRAVEL'S WITH MAXIMUM PARTICLE SIZE OF .25 INCH WITH SMALL PERCENTAGE OF FINES. COMPACT TO A MIN. 98%

MIN. 98% DENSITY PER AASHTO T-180.

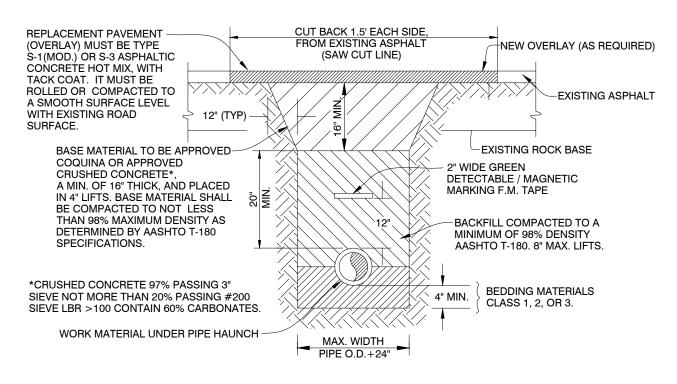
DENSITY PER AASHTO T-180. CLASS 3 MATERIAL - FINE SAND AND CLAYEY GRAVEL'S, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES. INCLUDED IN CLASS 3 ARE

1. IF CLASS 1 MATERIAL IS USED FOR BEDDING, IT MUST BE USED FOR THE ENTIRE EMBEDMENT. A DRY TRENCH SHALL BE MAINTAINED WHEN USING CLASS 2 AND CLASS 3 MATERIAL.

EXISTING SOIL TYPES CLASSIFIED AS SELECT BACKFILL. COMPACT TO A

- 2. DENSITY TESTING IS REQUIRED IN 1 FOOT LIFTS ABOVE PIPELINE AT INTERVALS OF 400' MAXIMUM.
- 3. UNSUITABLE IN-SITU MATERIAL SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
- 4. THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN PERMIT / CONTRACT DOCUMENTS.

TYPICAL TRENCH DETAIL FOR NON - PAVED AREAS (SD-1)



CLASS 1 MATERIAL - ANGULAR .25" TO .75" GRADED STONE SUCH AS CORAL, CRUSHED STONE, OR CRUSHED SHELLS OR BEDDING ROCK (100% PASSING 1" SIEVE).

CLASS 2 MATERIAL - COURSE SAND AND GRAVEL'S WITH MAXIMUM PARTICLE SIZE OF .25 INCH WITH SMALL PERCENTAGE OF FINES, COMPACT TO A MIN. 98%

DENSITY PER AASHTO T-180. CLASS 3 MATERIAL - FINE SAND AND CLAYEY GRAVEL'S, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES, INCLUDED IN CLASS 3 ARE

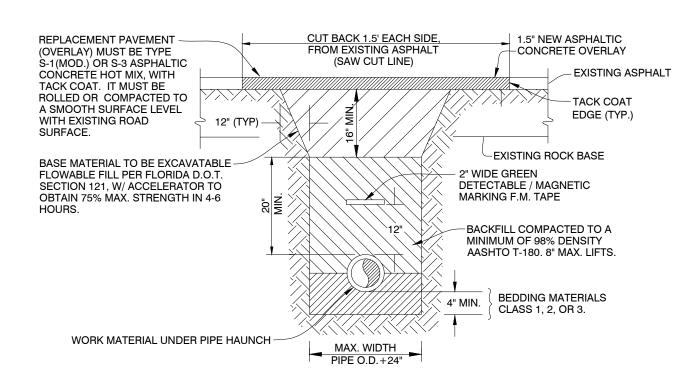
EXISTING SOIL TYPES CLASSIFIED AS SELECT BACKFILL. COMPACT TO A

1. ALL CUTS WILL REQUIRE COMPACTION TO DENSITY SPECIFICATIONS.

MIN. 98% DENSITY PER AASHTO T-180.

- 2. SAW CUT ASPHALT BEFORE EXCAVATING.
- 3. COMPACTION MUST BE DONE BY A MECHANICAL VIBRATORY COMPACTOR. EACH LIFT MUST RECEIVE 5 PASSES OF THE COMPACTOR OVER ENTIRE SURFACE. BEFORE COMPACTING EACH LIFT, WATER MUST BE APPLIED AT THE RATE OF 1 GAL. PER LINEAL FOOT OF THE TRENCH FOR BACKFILL AND 0.5 GAL. PER LINEAL FOOT OF TRENCH FOR COQUINA BASE. WATER TO BE SPRINKLED EVENLY OVER TRENCH WIDTH.
- 4. UNSUITABLE IN-SITU MATERIAL SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
- 5. THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN PERMIT / CONTRACT DOCUMENTS.

TYPICAL TRENCH & PAVEMENT **RESTORATION DETAIL (SD-2)**



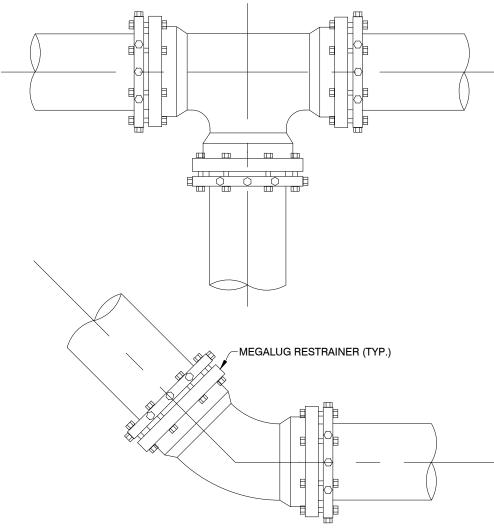
CLASS 1 MATERIAL - ANGULAR .25" TO .75" GRADED STONE SUCH AS CORAL, CRUSHED STONE, OR CRUSHED SHELLS OR BEDDING ROCK (100% PASSING 1" SIEVE).

CLASS 2 MATERIAL - COURSE SAND AND GRAVEL'S WITH MAXIMUM PARTICLE SIZE OF .25 INCH WITH SMALL PERCENTAGE OF FINES. COMPACT TO A MIN. 98% DENSITY PER AASHTO T-180.

CLASS 3 MATERIAL - FINE SAND AND CLAYEY GRAVEL'S, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES. INCLUDED IN CLASS 3 ARE EXISTING SOIL TYPES CLASSIFIED AS SELECT BACKFILL. COMPACT TO A MIN. 98% DENSITY PER AASHTO T-180.

- 1. ALL CUTS WILL REQUIRE COMPACTION TO DENSITY SPECIFICATIONS.
- 2. SAW CUT ASPHALT BEFORE EXCAVATING.
- 3. COMPACTION MUST BE DONE BY A MECHANICAL VIBRATORY COMPACTOR. EACH LIFT MUST RECEIVE 5 PASSES OF THE COMPACTOR OVER ENTIRE SURFACE. BEFORE COMPACTING EACH LIFT, WATER MUST BE APPLIED AT THE RATE OF 1 GAL. PER LINEAL FOOT OF THE TRENCH FOR BACKFILL AND 0.5 GAL. PER LINEAL FOOT OF TRENCH FOR COQUINA BASE. WATER TO BE SPRINKLED EVENLY OVER TRENCH WIDTH.
- 4. UNSUITABLE IN-SITU MATERIAL SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
- 5. THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN

TYPICAL TRENCH & PAVEMENT RESTORATION W/ FLOWABLE FILL DETAIL (SD-3)



- 1. RETAINER GLANDS FOR PVC PIPE OR DUCTILE IRON PIPE SHALL BE USED AT BEND'S "MEGALUG" BY EBAA IRON SALES INC., OR DISTRICT APPROVED EQUAL.
- BE IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATION. 3. ALL BEND'S & TEE'S SHALL HAVE AN EMS INSTALLED.

OR TEE'S; RETAINER GLANDS SHALL BE MANUFACTURED BY UNI-FLANGE CORP., OR 2. THE NUMBER OF JOINTS RESTRAINED EACH SIDE OF ANY FITTING OR VALVE SHALL

FORCE MAIN THRUST RESTRAINT DETAIL (SD-19)

MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S) PIPE SIZE TYPE 4" | 6" | 8" | 10" | 12" | 16" | 20" | 24" | 30" | 36" 90° BEND 18 24 31 38 43 55 65 75 88 100 45° BEND 8 | 10 | 13 | 15 | 18 | 23 | 26 | 31 | 38 | 43 22-1/2° BEND 4 5 6 8 9 11 13 15 18 20 11-1/4° BEND 2 | 3 | 4 | 5 | 6 | 8 | 9 | 10 | 11 | 13 PLUG OR BRANCH OF TEE 19 | 25 | 32 | 40 | 45 | 59 | 70 | 82 | 98 | 112 REDUCER VARIES BY SIZE; TO BE DETERMINED BY THE DESIGN ENGINEER

- 1. FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED. . INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN LENGTH SHOWN IN
- 3. WHERE TWO OR MORE FITTINGS ARE IN SERIES, SELECT FITTING RESTRAINT LENGTH THAT YIELDS
- THE LONGEST RESTRAINT DISTANCE. . ALL INLINE VALVES SHALL BE RESTRAINED.
- . WHERE INTERNAL RESTRAINED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED. 6. LENGTHS SHOWN IN THE TABLE WERE CALCULATED IN ACCORDANCE WITH PROCEDURES OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" GUIDELINES PUBLISHED BY DIPRA, USING THE ASSUMPTIONS SHOWN BELOW:

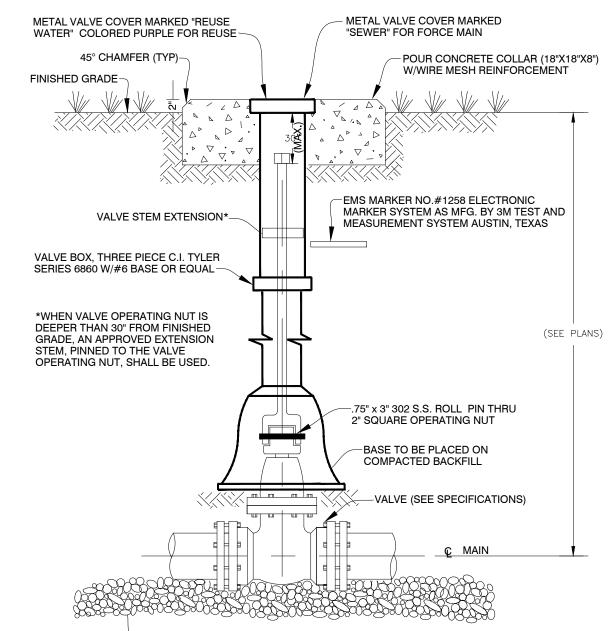
WORKING PRESSURE: 100 PSI SOIL DESIGNATION: SM (SAND SILT)

LAYING CONDITIONS: 3 DEPTH OF COVER: 3 FT

SAFETY FACTOR: 1.5 CONVERSION FACTOR FOR PVC PIPE: 1.25

THE DESIGN ENGINEER SHALL INCREASE THE VALUES IN THE TABLE AS WARRANTED BY SITE-SPECIFIC PARAMETERS, SUCH AS SOIL DESIGNATIONS AND LAYING CONDITIONS.

FORCE MAIN THRUST RESTRAINT CHART (SD-18)



-PLACE MIN. 6" #57 ROCK BEDDING FOR PIPE/VALVE SUPPORT

FORCE MAIN OR REUSE WATER SYSTEM **BURIED VALVE DETAIL (SD-27)**

SEPARATION REQUIREMENTS

62-555.314 F.A.C. AUGUST 28, 2003

- 1. HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS. WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT
- A. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- B. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER
- C. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED LINDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITÁRY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
- 2. VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER
- A. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- B. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATERMAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE
- C. AT THE UTILITY CROSSING DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS. STORM SEWERS. STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- *REQUIRED BY: HRS, STATE OF FLORIDA, PALM BEACH COUNTY PUBLIC HEALTH UNIT

STANDARD WATER AND SEWER **SEPARATION STATEMENT (SD-30)**

NO.	DATE	ISSUED FOR	APRV'D BY	DESIGNED:	J.A.P.
				DRAWN:	J.A.J.
				CHECKED:	A.C
				APPROVED:	D.L.M.
				AFFNOVED.	D.L.IVI

No. 67426

a BAXTER WOODMAN company

BAR IS ONE INCH ON FULL SIZE '22x34) ORIGINAI DRAWING. ADJUST SCALES AS NECESSARY.

ENGINEER NO.: 160963 PROJECT NO.:160963

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT MASTER LIFT STATION No. 1 REHABILITATION

CIVIL DETAILS - SHEET 1

DATE: APRIL 2018

7 of 31

SHEET:

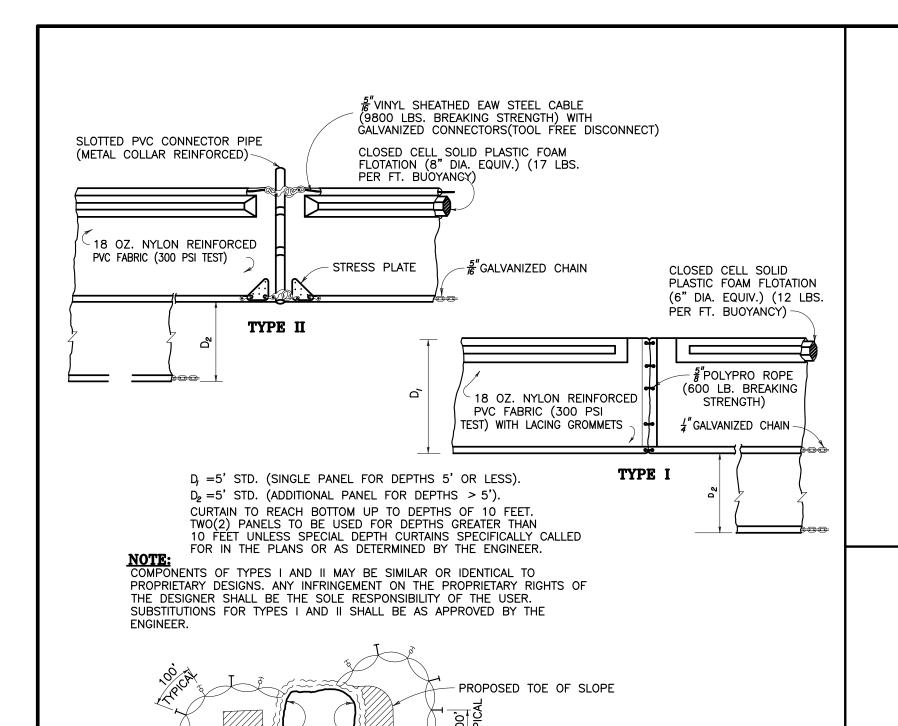
ONSTRUCTION

DRAWING: C-4

JASON A. PUGSLEY, P.E.

477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401 Phone: 561-655-6175 • Fax: 561-655-6179 www.baxterwoodman.com EB-31795

CAD REF.: 160963C-P-DTL



LEGEND

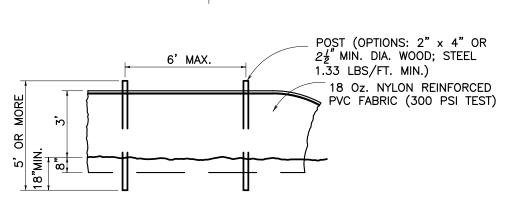
→ ANCHOR

PILE LOCATIONS

DREDGE OR FILL AREA

→ MOORING BUOY W/ANCHOR

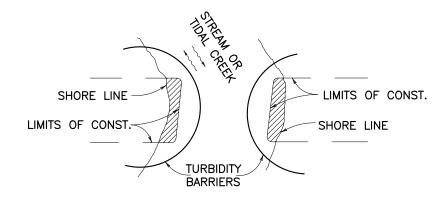
BARRIER MOVEMENT DUE TO CURRENT ACTION



CURRENT

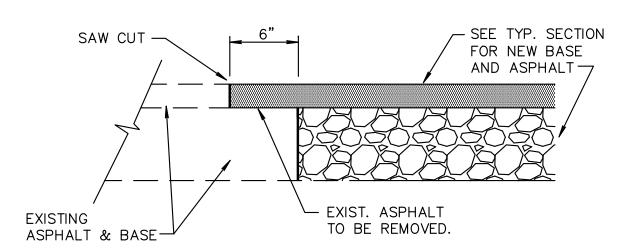
STRUCTURE ALIGNMENT

STAKED TURBIDITY BARRIER



- 1.TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATION OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTORS OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS. POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 2. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
- 3. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
- 4.DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
- 5. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS. 6.FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE STANDARD SPECIFICATIONS.

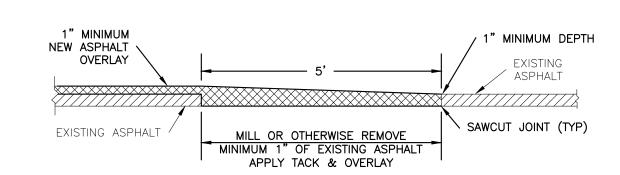
FLOATING TURBIDITY BARRIERS



NEW CONSTRUCTION PAVEMENT JOINT

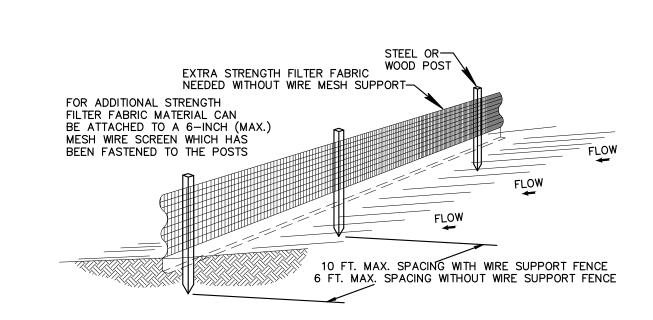
THIS METHOD OF PAVEMENT JOINT SHALL BE USED FOR ANY APPLICATION OR CONSTRUCTION WHERE PROPOSED PAVEMENT AND BASE WILL BE CONNECTED TO EXISTING PAVEMENT AND

PAVEMENT JOINT DETAIL



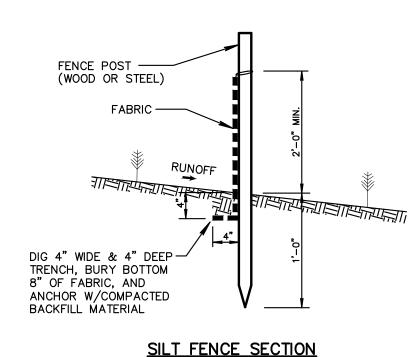
NOTE:
IF EXISTING BASE IS DISTURBED, BASE SHALL BE GRADED AND RE-COMPACTED PRIOR TO PRIME/TACK COAT PLACEMENT AND OVERLAY.

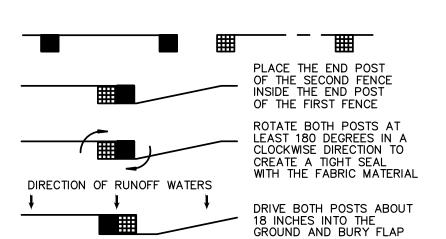
TRANSITION OF ASPHALT OVERLAY TO **EXISTING PAVEMENT ELEVATION**



- 1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (90 CM).
- 2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
- 3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT
- 4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
- 5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
- 6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 CM) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGIONAL
- 7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
- 8. ALL PROJECTS REQUIRE SUBMITTAL OF POLLUTION PREVENTION PLAN (PPP).
- 9. ALL PROJECTS 1 AC. OR MORE MUST SUBMIT NOTICE OF INTENT (NOI) TO FDEP.

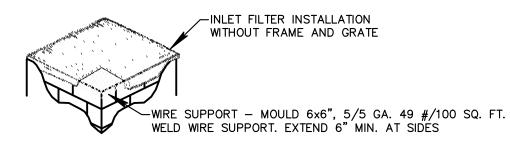
SILT FENCE DETAIL

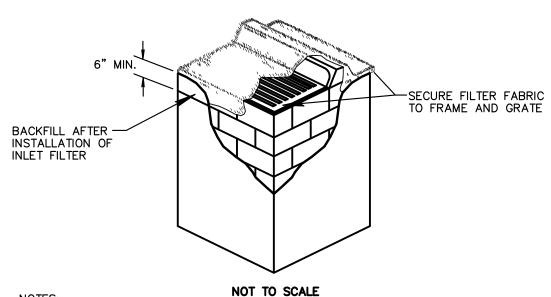




NOT TO SCALE

ATTACHING TWO SILT FENCES



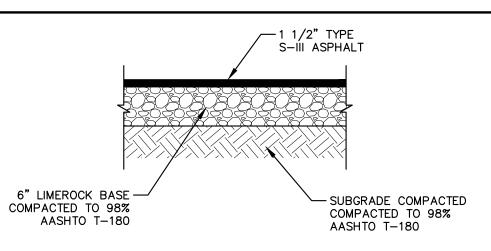


NOTES:

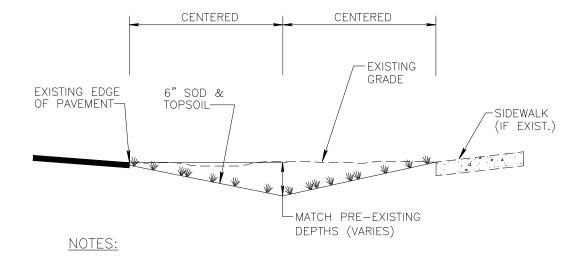
- 1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
- 2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.
- A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14 INCHES IN DEPTH, APPROXIMATELY 36 INCHES IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.

STORM WATER WILL REACH THE SEDIMENT TRAP VIA CURB CUTS ADJACENT TO EACH SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY ALSO REACH THE BASIN VIA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CURB CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP IS

INLET FILTER DETAIL

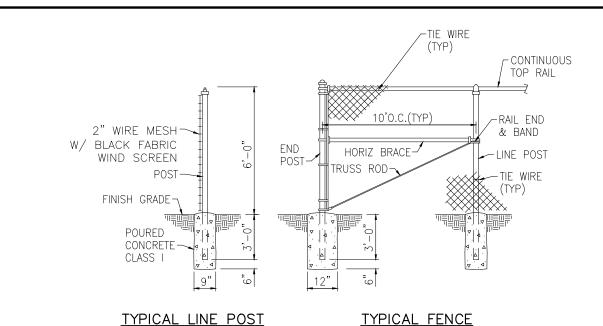


ASPHALT DRIVEWAY DETAIL



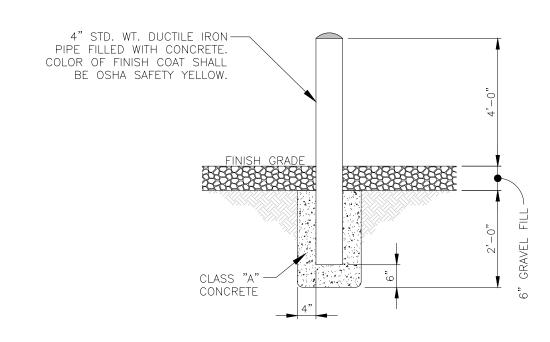
- 1. CONTRACTOR TO REPLACE ALL IRRIGATION, TREES & SHRUBBERY IN SWALES DAMAGED DURING CONSTRUCTION.
- 2. SWALE FLOW LINES SHALL BE CONSTRUCTED 0.1' BELOW DRIVEWAY FLOW LINE.

SWALE REPLACEMENT DETAIL

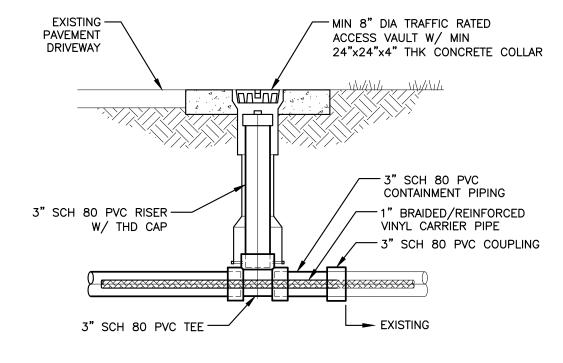


FENCE FABRIC, POSTS, BRACES, RAILS & ACCESSORIES SHALL BE BLACK VINYL COATED.

CHAIN LINK FENCE INSTALLATION DETAILS



BOLLARD SCALE: N.T.S.



TYPICAL FIELD INSPECTION PORT DETAIL

	<u> </u>	1011010111	<u> </u>	
ED	FOR			Α

DATE ISSUE NO. DESIGNED: J.A.P. DRAWN: J.A.J. CHECKED: A.C. APPROVED: D.L.M.

JASON A. PUGSLEY, P.E. No. 67426

a BAXTER WOODMAN company

477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401 Phone: 561-655-6175 • Fax: 561-655-6179 www.baxterwoodman.com EB-31795

BAR IS ONE INCH ON FULL SIZE '22x34) ORIGINAI DRAWING. ADJUST

ENGINEER NO.: 160963 CLIENT

PROJECT NO.:160963 SCALES AS NECESSARY. CAD REF.: 160963C-P-DTL

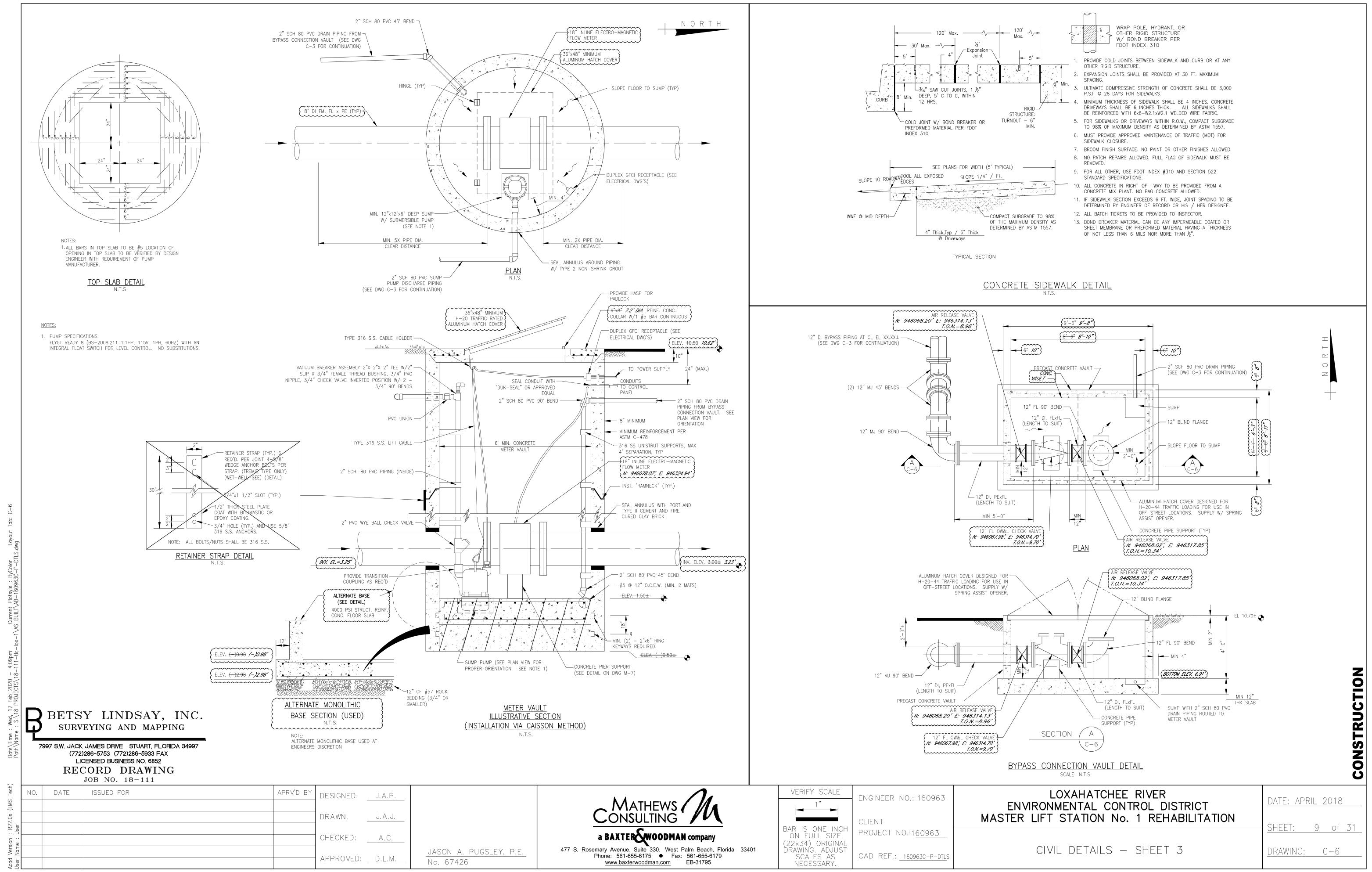
LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT MASTER LIFT STATION No. 1 REHABILITATION

DATE: APRIL 2018 SHEET:

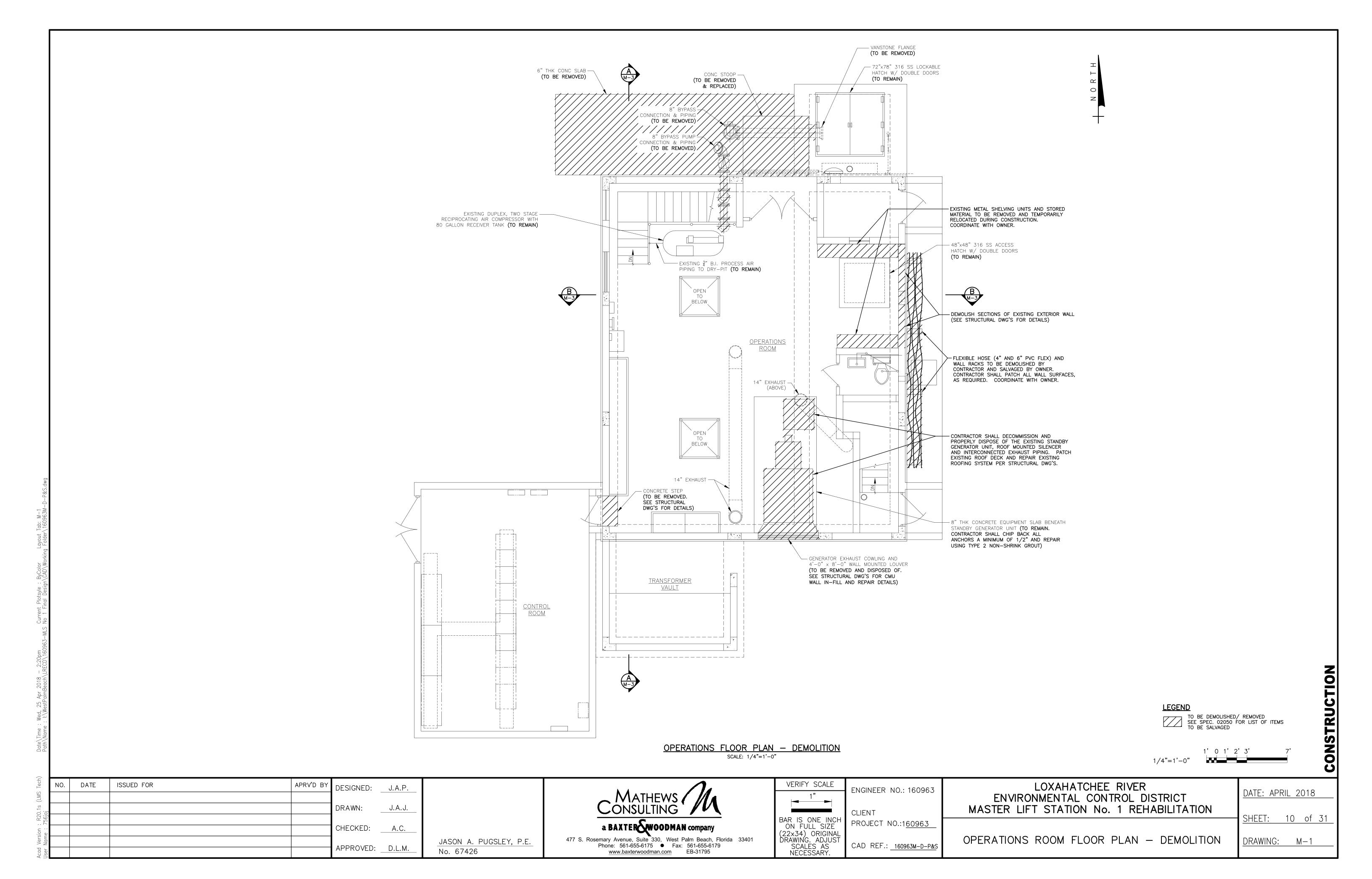
CIVIL DETAILS - SHEET 2

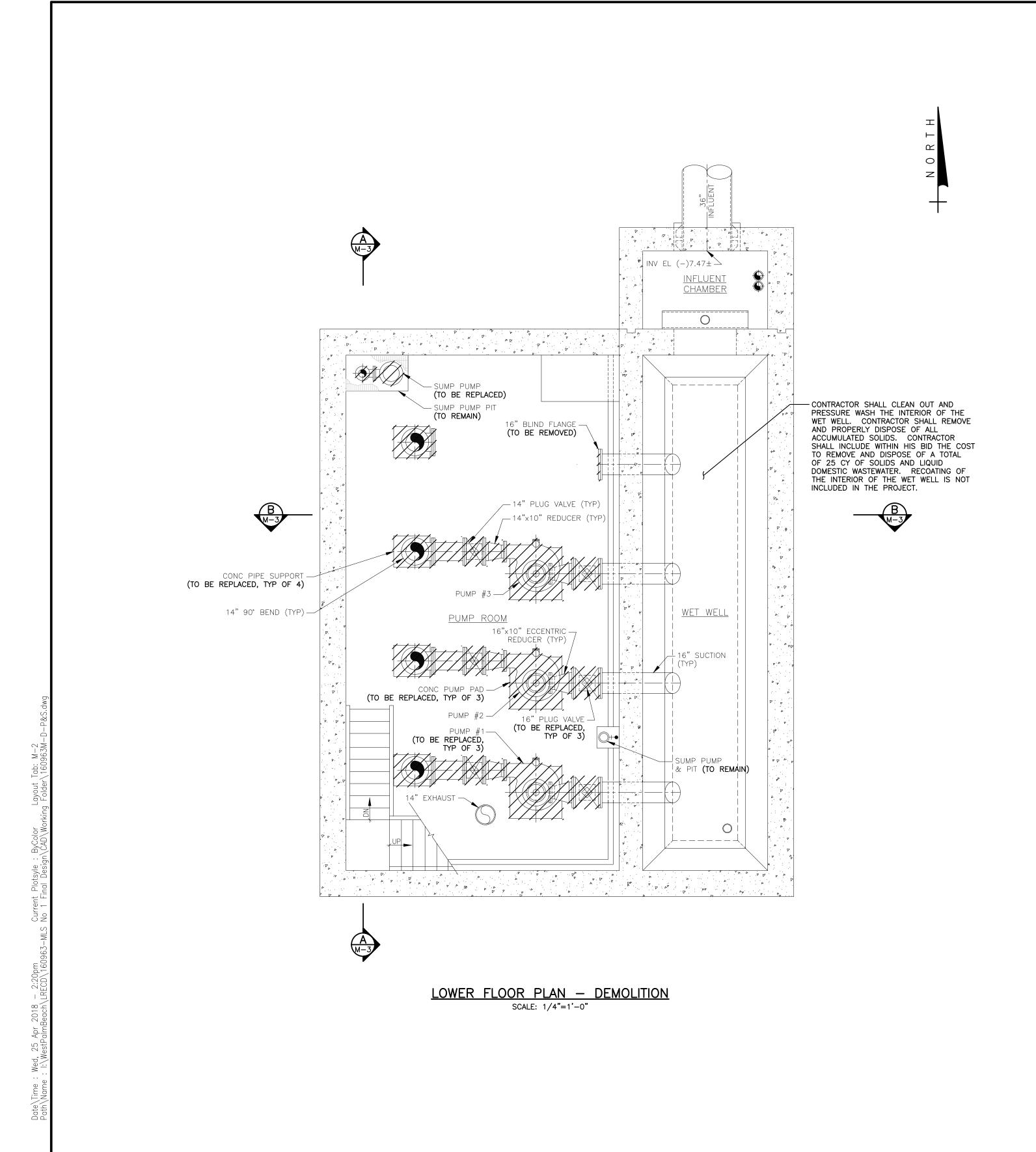
8 of 31 DRAWING: C-5

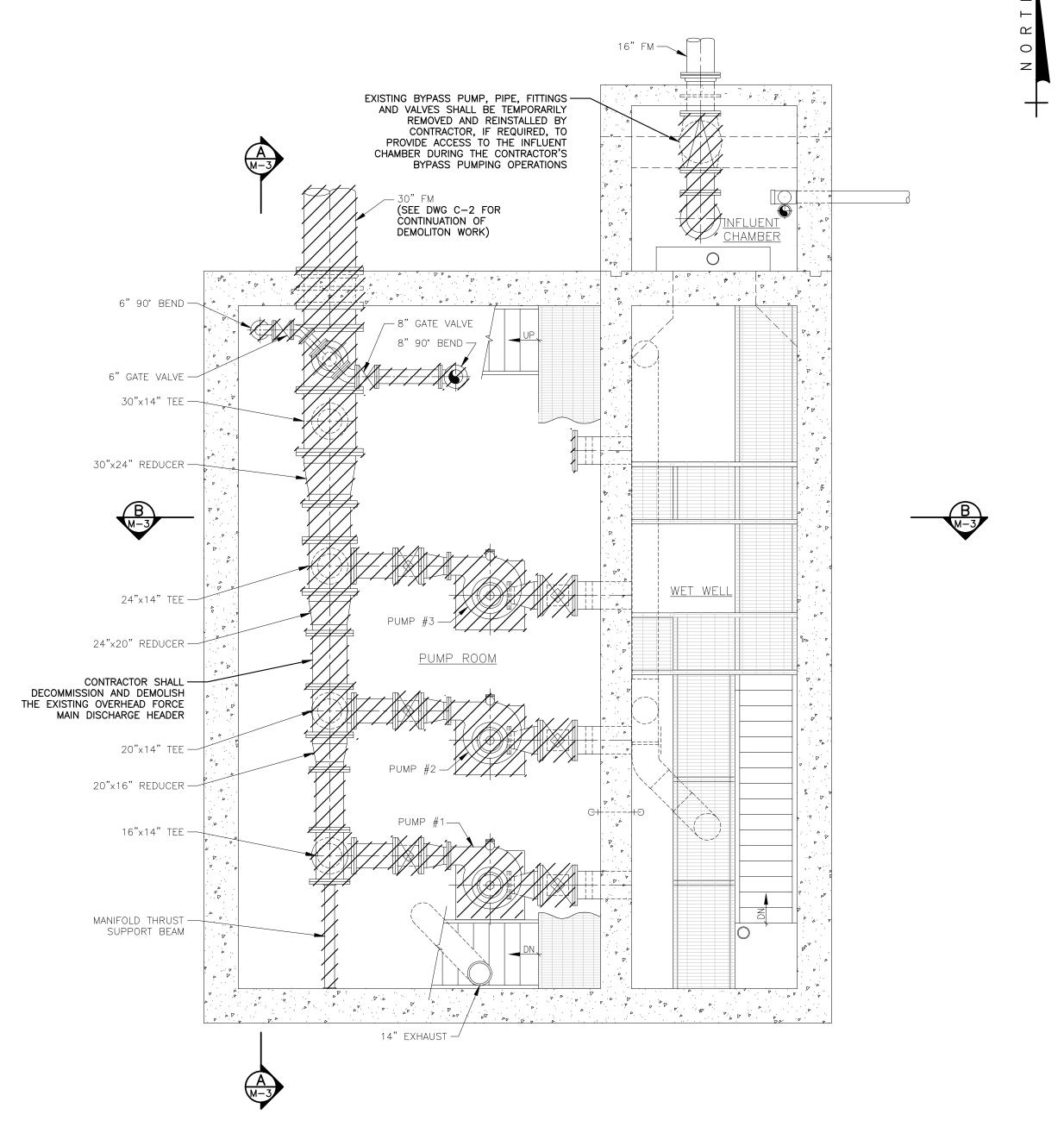
CONSTRUCTION



8-160963C-P-DTLS.dwg, 2/12/2020 4.09:10 PM, DWG To PDF.pc3, 1:1, CJR-







INTERMEDIATE FLOOR PLAN — DEMOLITION

SCALE: 1/4"=1'-0"

LEGEND

TO BE DEMOLISHED/ REMOVED
SEE SPEC. 02050 FOR LIST OF ITEMS
TO BE SALVAGED

1' 0 1' 2' 3' 7 1/4"=1'-0"

$\overline{}$							
Tech)	NO.	DATE	ISSUED FOR	APRV'D BY	DESIGNED:	J.A.P.	
(LMS					_		
: R20.1s 756jaj					DRAWN:	J.A.J.	
: R2 756j					OHEOKED	4.0	
Version Name :					CHECKED: _	A.C.	
					APPROVED:	D.L.M.	
cad					· · · · · · · · · · -		1

ATHEWS

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Phone: 561-655-6175 • Fax: 561-655-6179

www.baxterwoodman.com EB-31795

JASON A. PUGSLEY, P.E.

No. 67426

VERIFY SCALE

1"
CLI
BAR IS ONE INCH
ON FULL SIZE
(22×34) ORIGINAL
DRAWING. ADJUST
SCALES AS
NECESSARY.

	ENGINEER NO.: 160963	
	LINGINELIX INO 100903	
	CLIENT	
ı	PROJECT NO.:1 <u>60963</u>	
٠		
	CAD REF.: <u>160963M-D-P&</u> S	

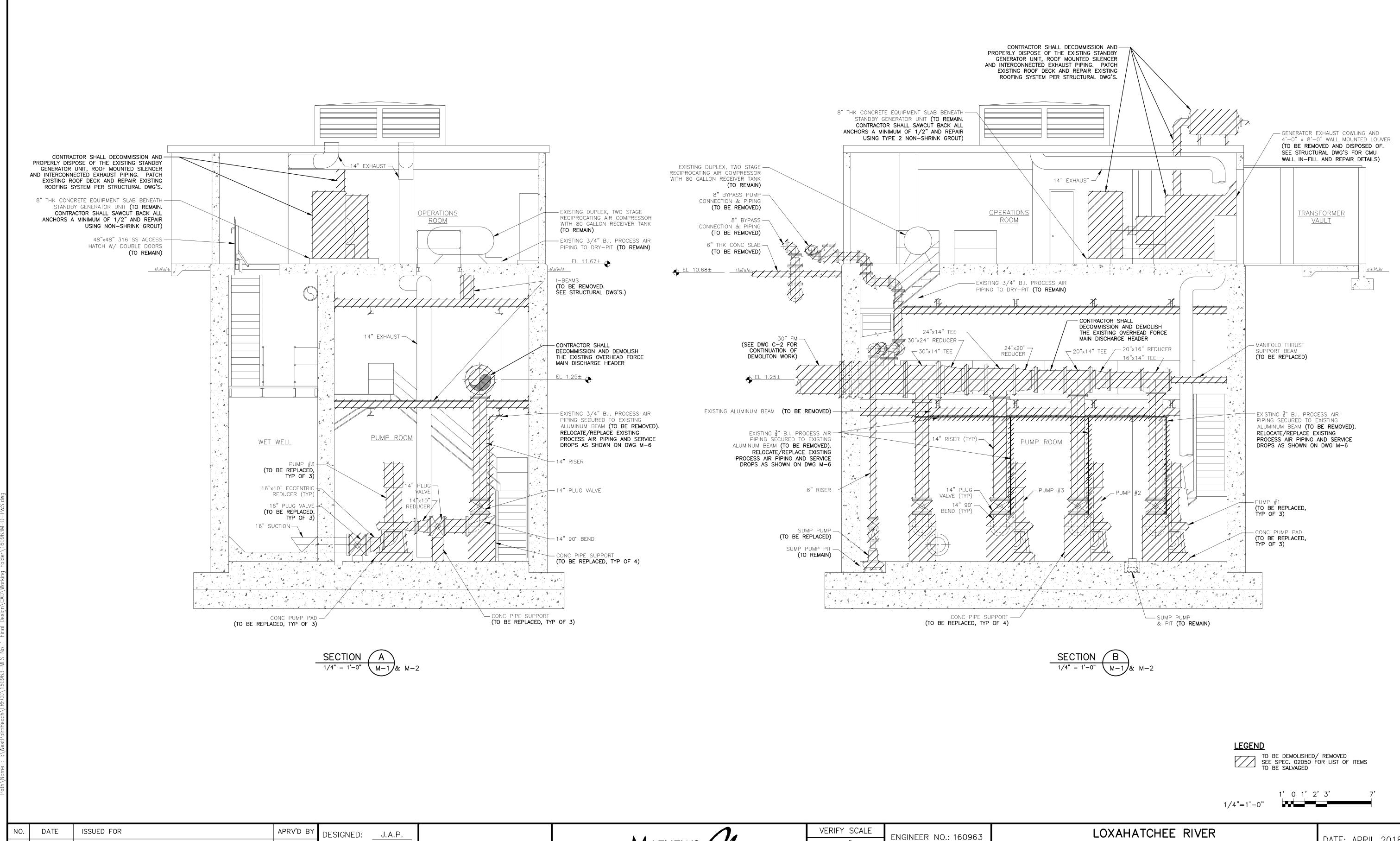
ENVIRONMENTAL CONTROL DISTRICT	LOXAHATCHEE RIVER
	ENVIRONMENTAL CONTROL DISTRICT
MASTER LIFT STATION No. 1 REHABILITATION	MASTER LIFT STATION No. 1 REHABILITATION

LOWER AND INTERMEDIATE FLOOR PLANS
DEMOLITION

DATE:	APRIL	2018	
SHFFT	· 1	1 of	71

CONSTRUCTION

DRAWING: M-2



JASON A. PUGSLEY, P.E. No. 67426

DRAWN:

CHECKED:

APPROVED: D.L.M.

J.A.J.

____A.C.

a BAXTER WOODMAN company 477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401 Phone: 561-655-6175 • Fax: 561-655-6179 www.baxterwoodman.com EB-31795

BAR IS ONE INCH ON FULL SIZE (22×34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

PROJECT NO.:160963 CAD REF.: <u>160963M-D-P&</u>S

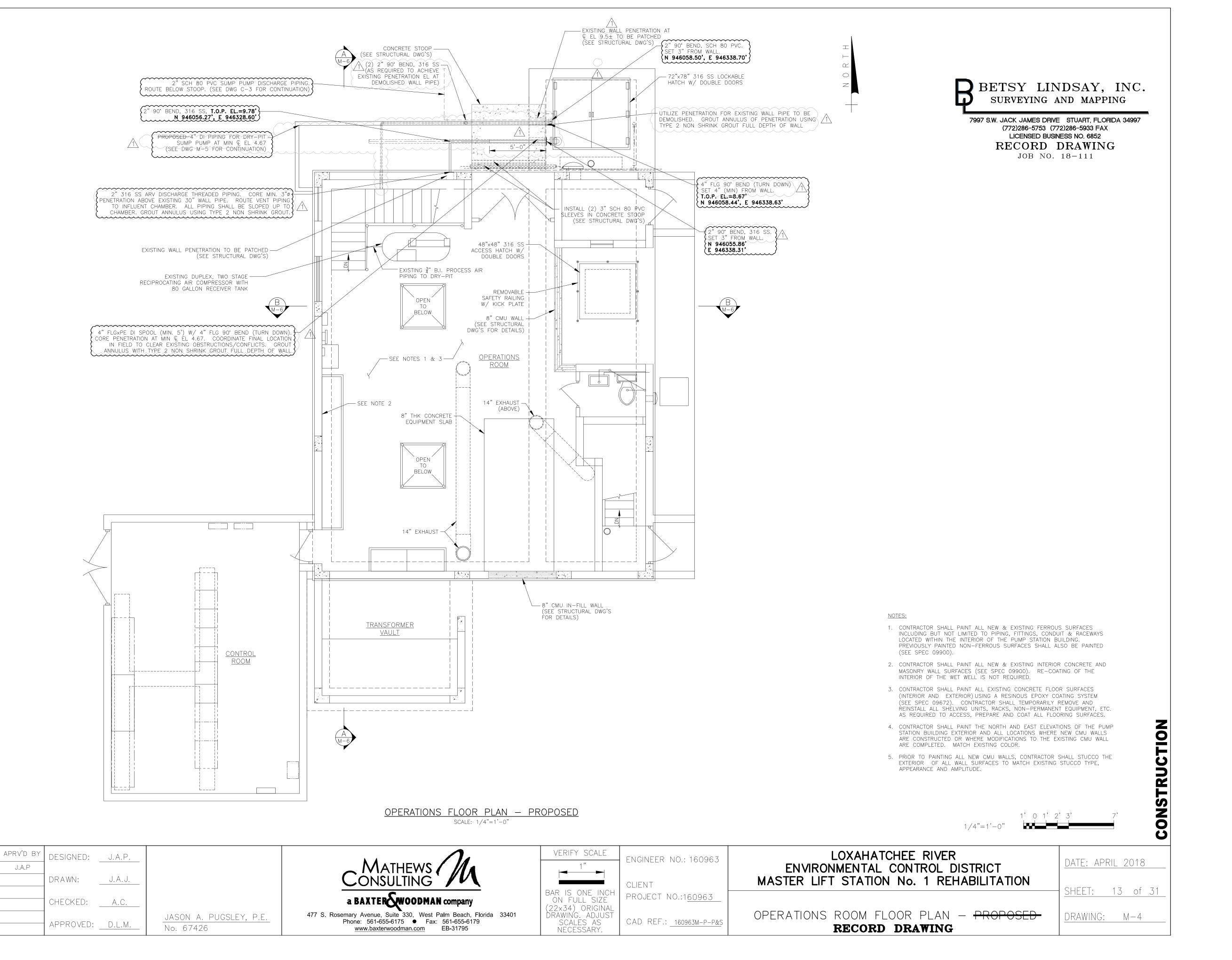
ENVIRONMENTAL CONTROL DISTRICT MASTER LIFT STATION No. 1 REHABILITATION

MECHANICAL SECTIONS - DEMOLITION

DATE: APRIL 2018 SHEET: 12 of 31

CONSTRUCTION

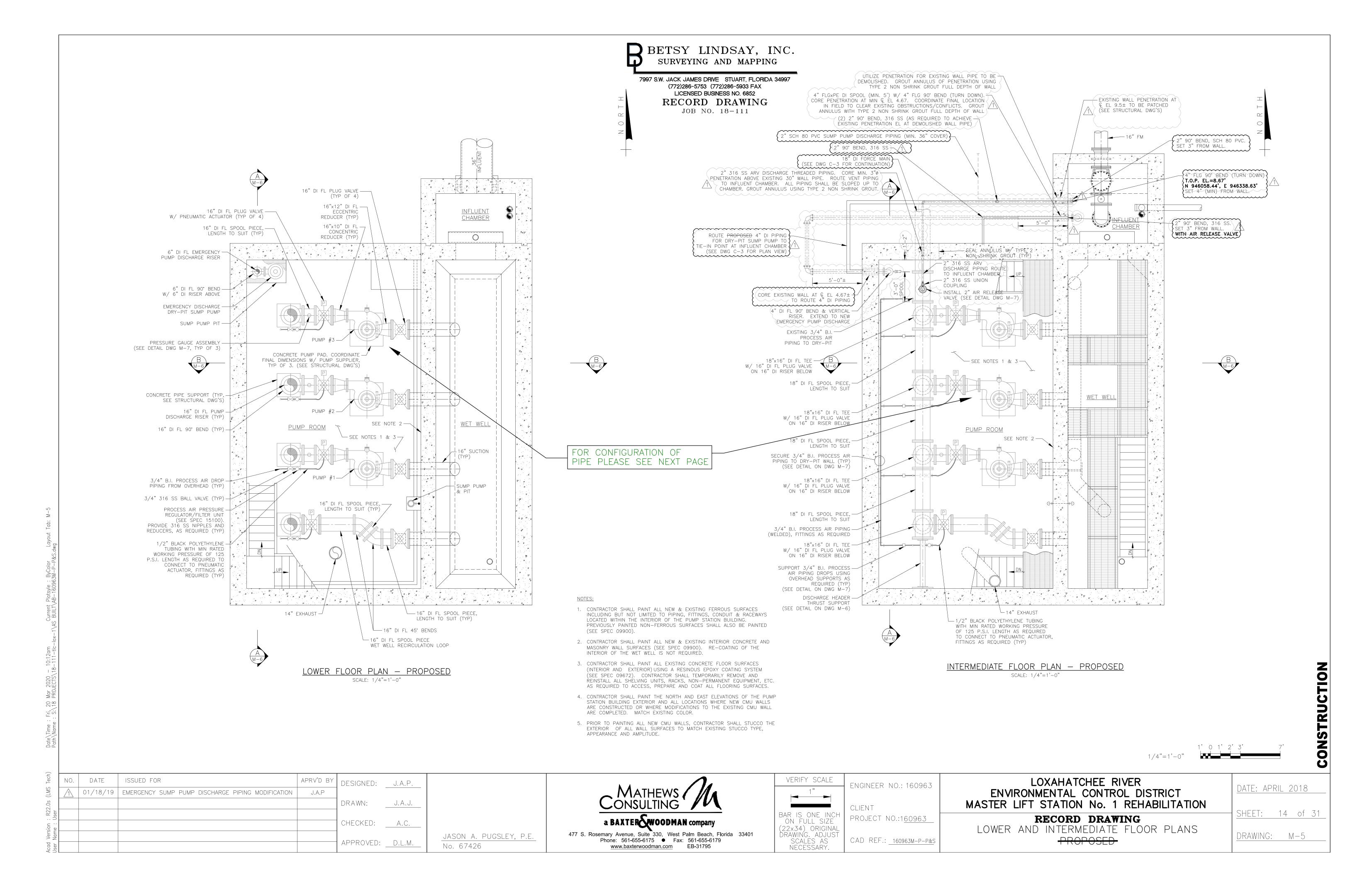
DRAWING: M-3

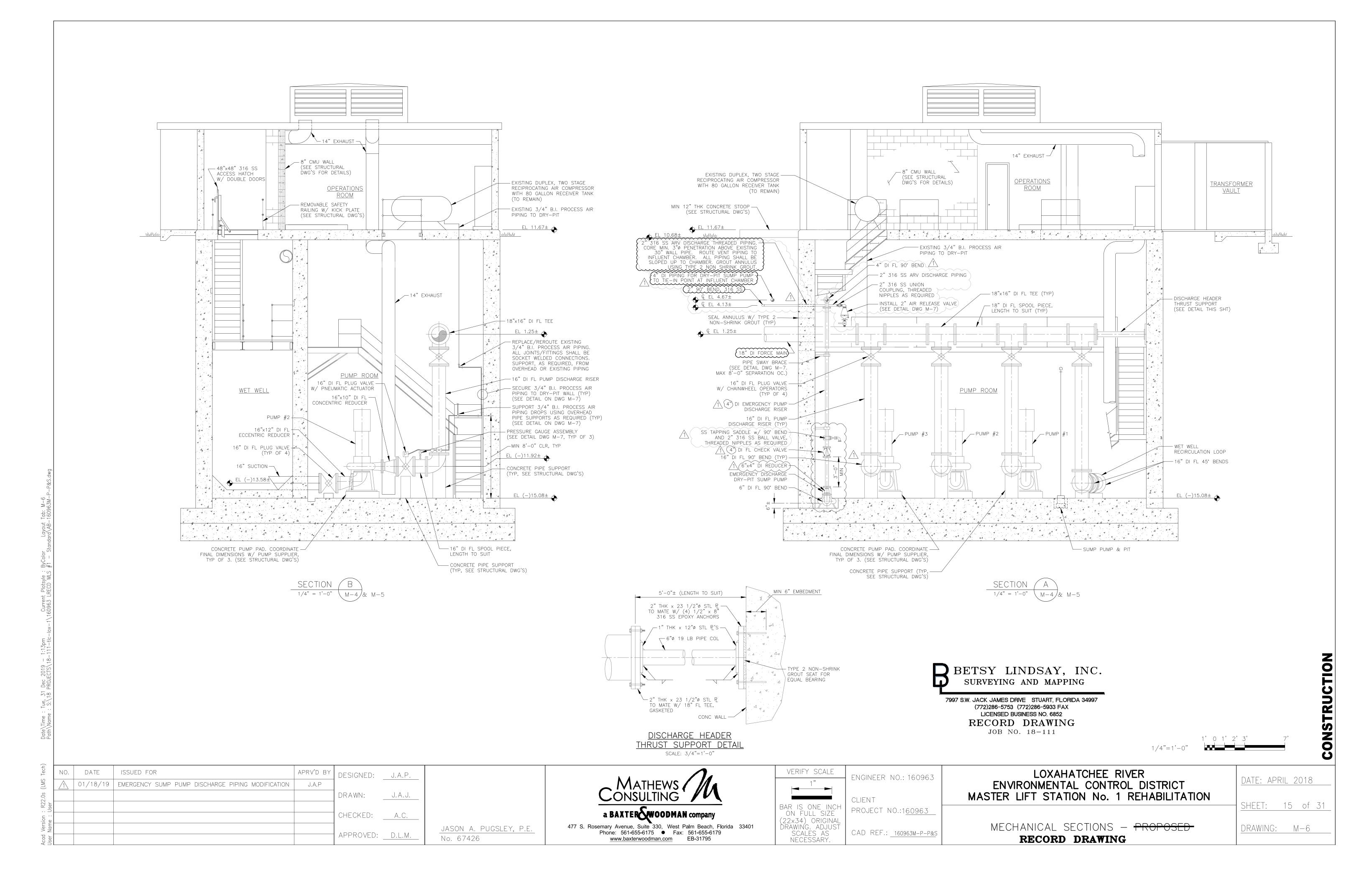


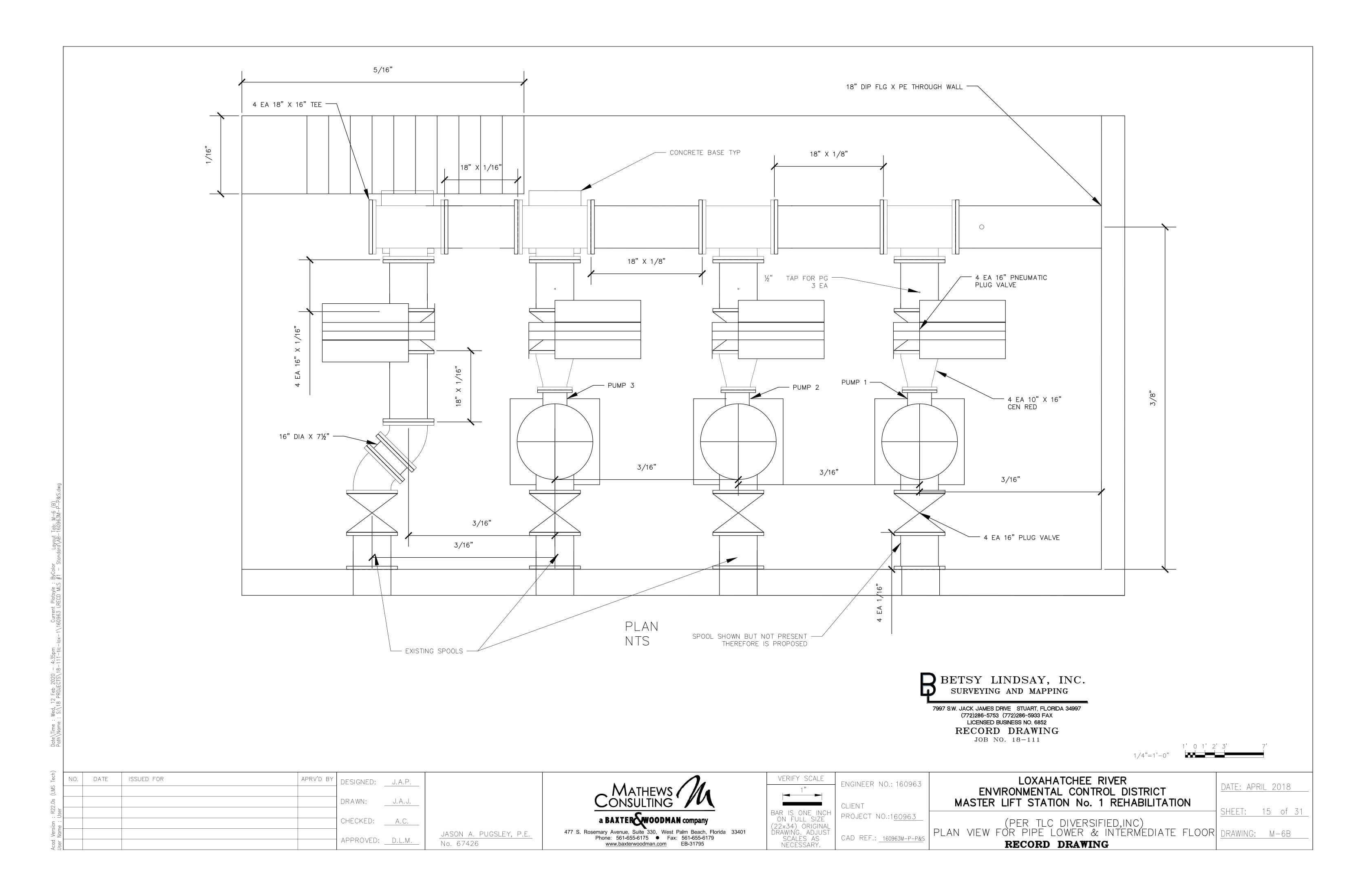
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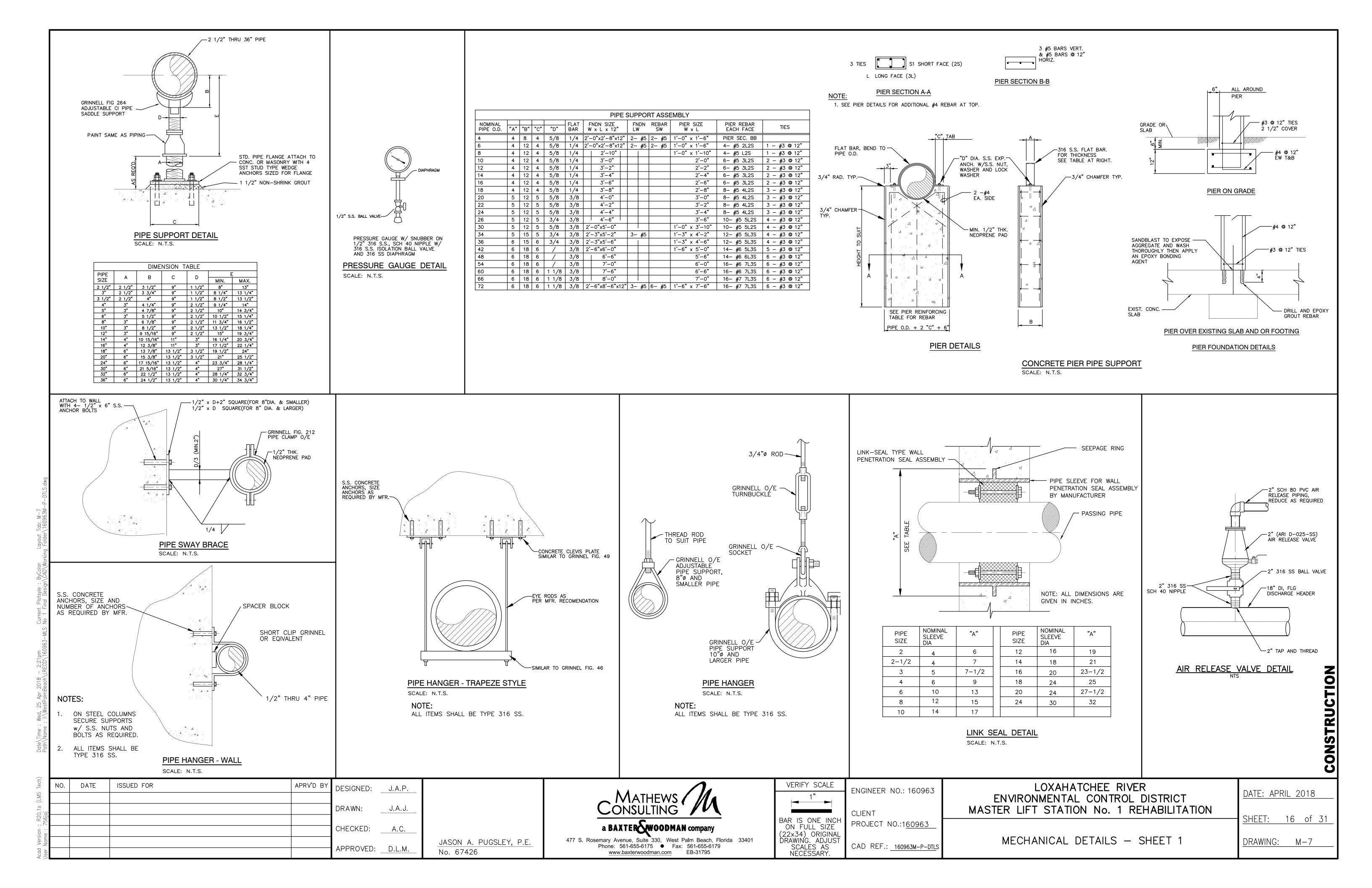
ISSUED FOR

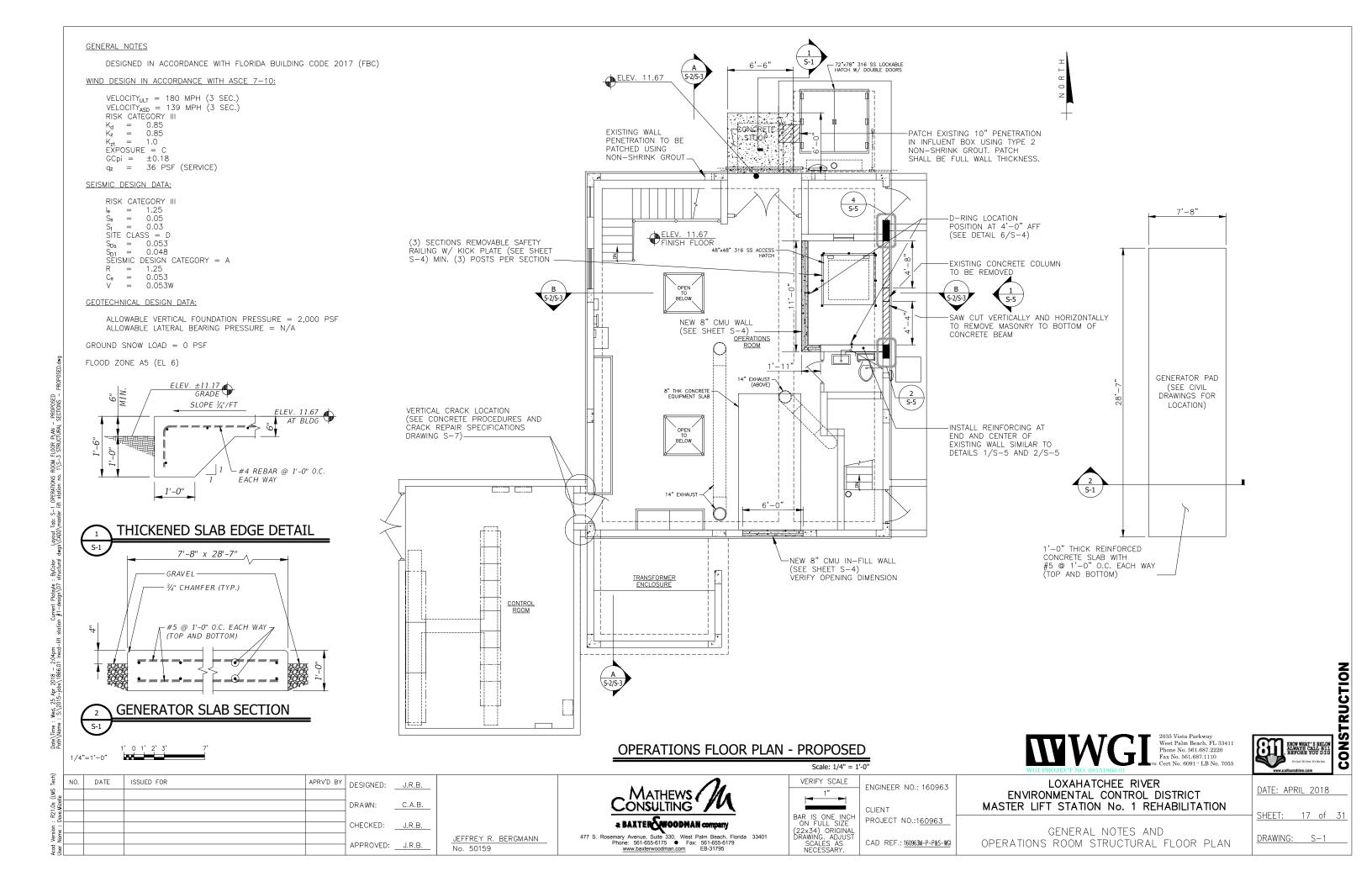
↑ | 01/18/19 | EMERGENCY SUMP PUMP DISCHARGE PIPING MODIFICATION

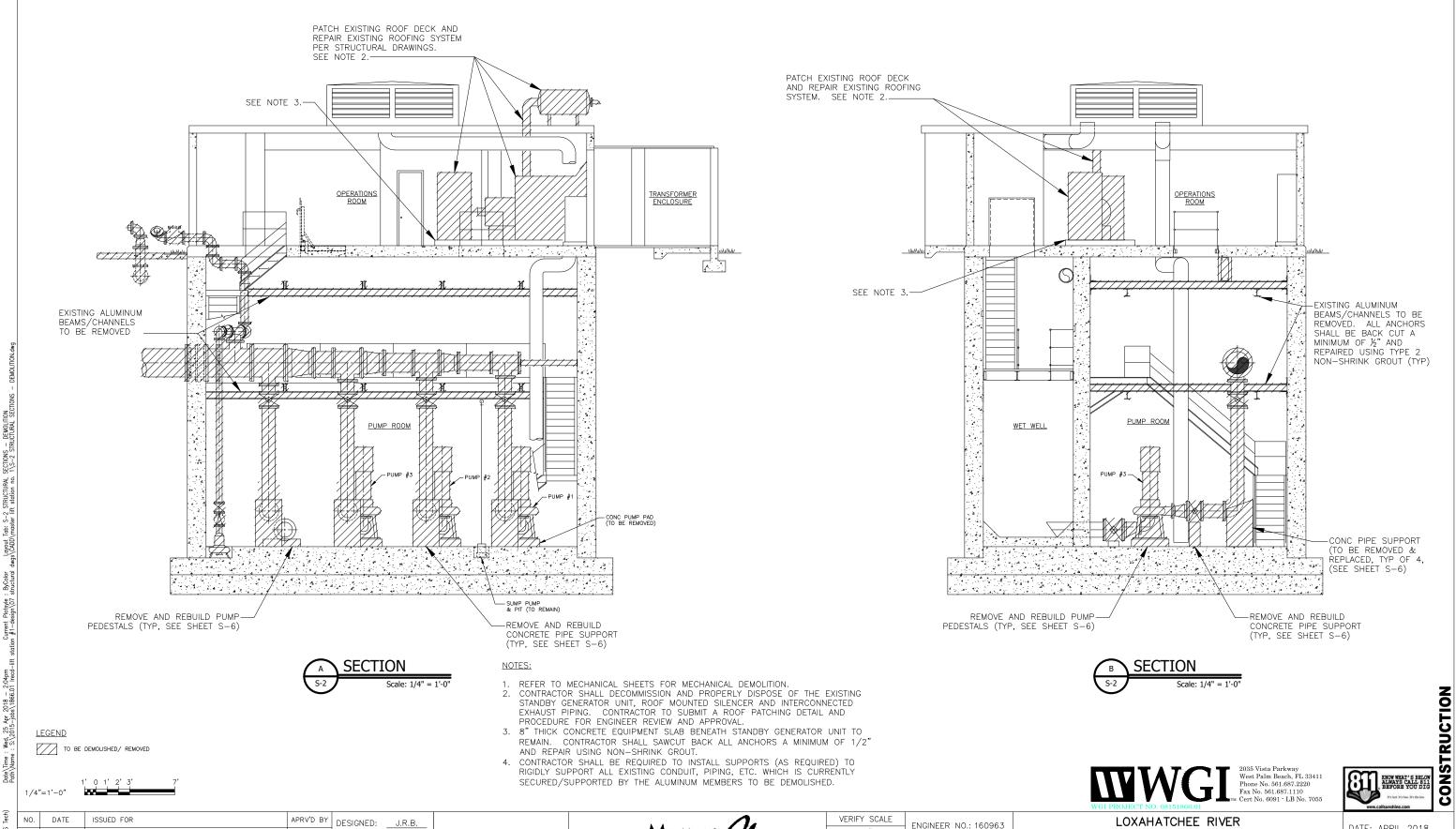












DATE

ISSUED FOR

J.R.B.

C.A.B.

JEFFREY R. BERGMANN

No. 50159

DRAWN:

CHECKED:

APPROVED: ___J.R.B.

477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401
Phone: 561-655-6175 ● Fax: 561-655-6179
www.baxterwoodman.com EB-31795

MATHEWS (
CONSULTING

BAR IS ONE INCI ON FULL SIZE (22×34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

ENGINEER NO.: 160963 CLIENT PROJECT NO.:160963

CAD REF .: 160963M-P-P&S

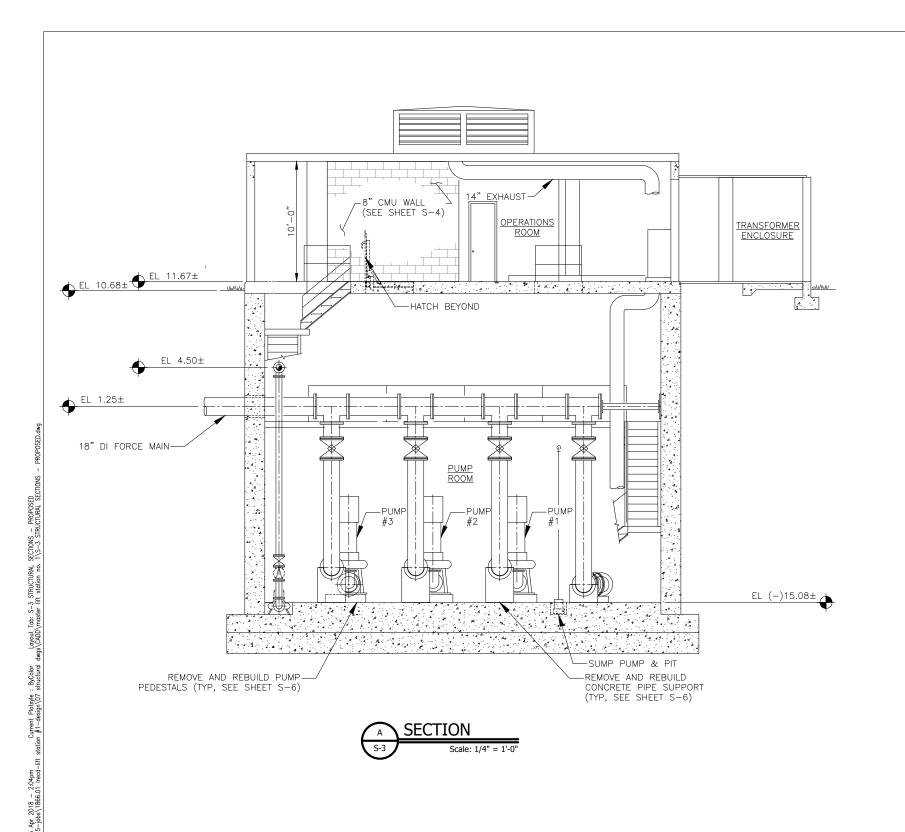
LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT MASTER LIFT STATION No. 1 REHABILITATION

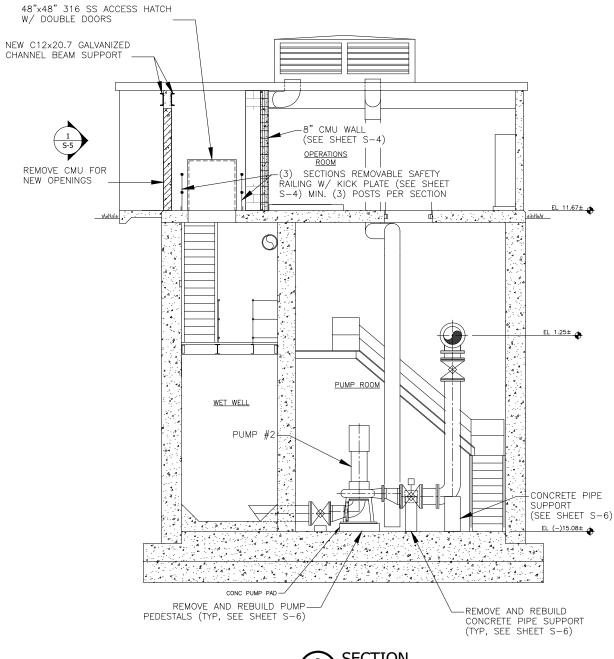
STRUCTURAL SECTIONS - DEMOLITION

DATE: APRIL 2018

SHEET: 18 of 31

DRAWING: S-2







APRV'D BY DESIGNED: DATE ISSUED FOR J.R.B. DRAWN: C.A.B. CHECKED: APPROVED: J.R.B.

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Phone: 561-655-6175 ● Fax: 561-655-6179
www.baxterwoodman.com EB-31795

JEFFREY R. BERGMANN

No. 50159

(22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

CLIENT PROJECT NO.:160963

ENGINEER NO.: 160963

CAD REF .: 160963M-P-P&S

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT MASTER LIFT STATION No. 1 REHABILITATION

STRUCTURAL SECTIONS - PROPOSED

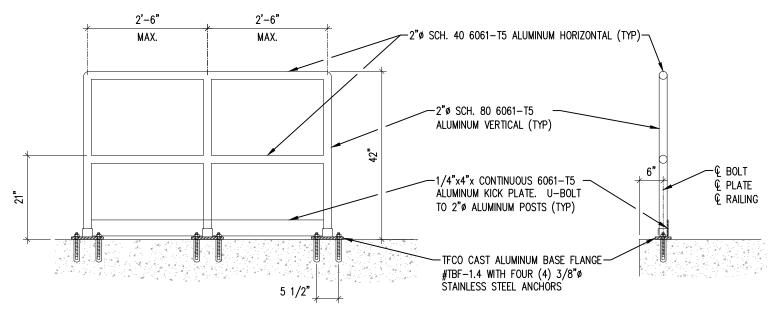
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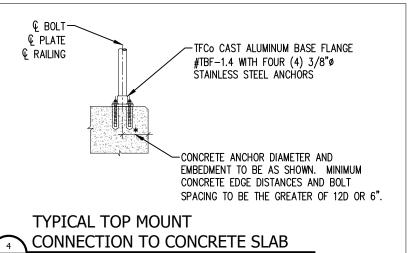
2035 Vista Parkway West Palm Beach, FL 33411 Phone No. 561.687.2220

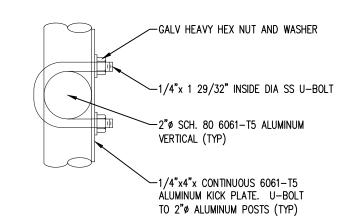
DATE: APRIL 2018

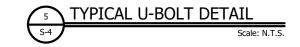
SHEET: 19 of 31

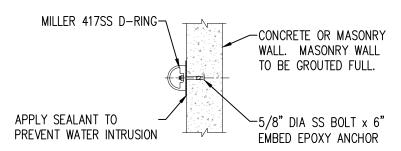
DRAWING: S-3







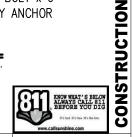








Phone No. 561.687.2220



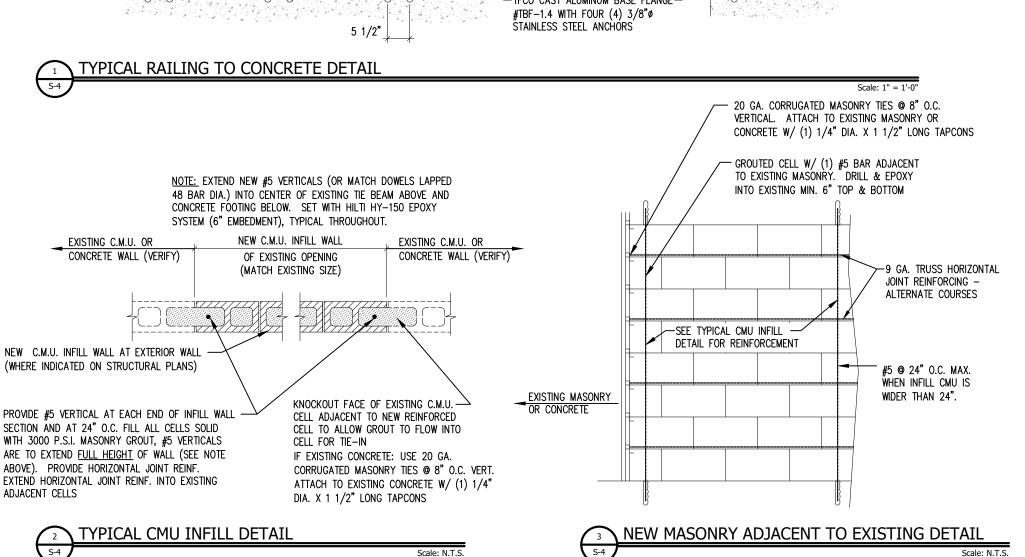
ENGINEER NO.: 160963

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT MASTER LIFT STATION No. 1 REHABILITATION

SHEET: 20 of 31

DRAWING: S-4

DATE: APRIL 2018



JEFFREY R. BERGMANN

No. 50159

DATE ISSUED FOR APRV'D BY | DESIGNED: J.R.B. DRAWN: C.A.B. CHECKED: APPROVED: J.R.B.

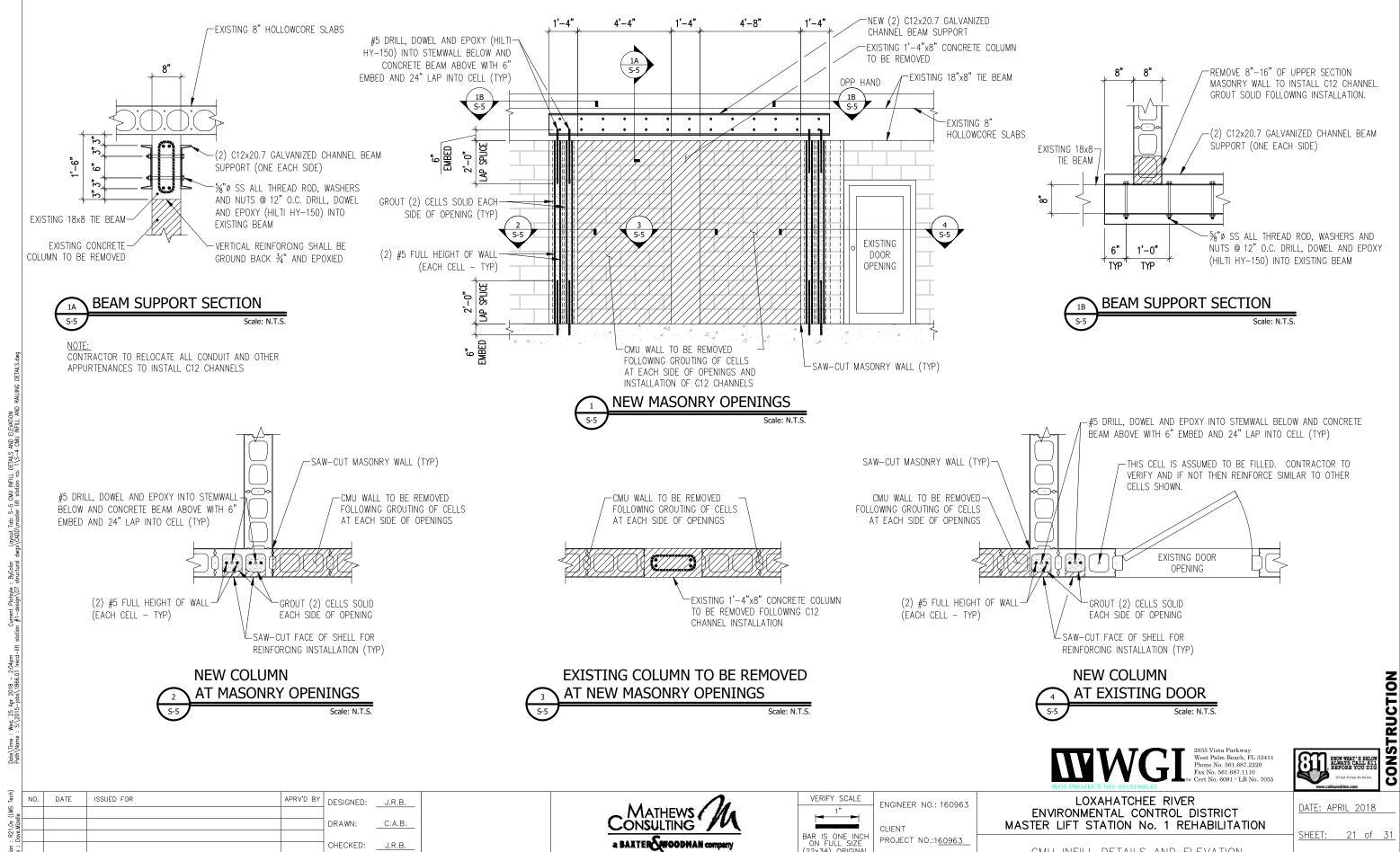
MATHEWS. a BAXTER WOODMAN company

(22×34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

CLIENT PROJECT NO.:160963

CAD REF .: 160963M-P-P&S

CMU INFILL AND RAILING DETAILS



JEFFREY R. BERGMANN

No. 50159

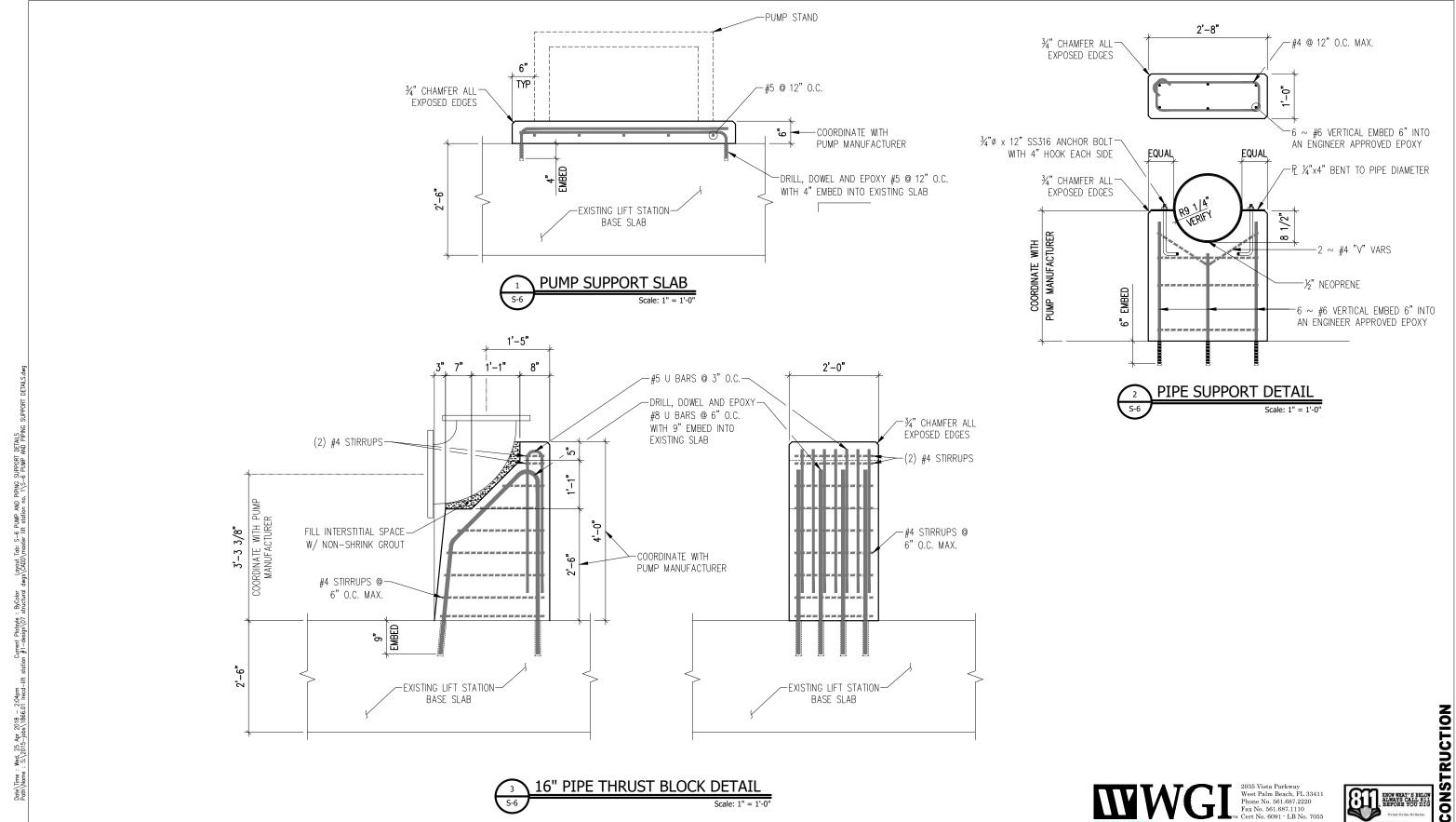
APPROVED: J.R.B.

(22×34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

CAD REF.: 160963M-P-P&S

CMU INFILL DETAILS AND ELEVATION

DRAWING: S-5



DATE

ISSUED FOR

CHECKED: APPROVED: ___J.R.B.

APRV'D BY DESIGNED:

DRAWN:

J.R.B.

C.A.B.

JEFFREY R. BERGMANN

No. 50159

CONSULTING / (22×34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

ENGINEER NO.: 160963 CLIENT PROJECT NO.:160963

CAD REF .: 160963M-P-P&S

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT MASTER LIFT STATION No. 1 REHABILITATION

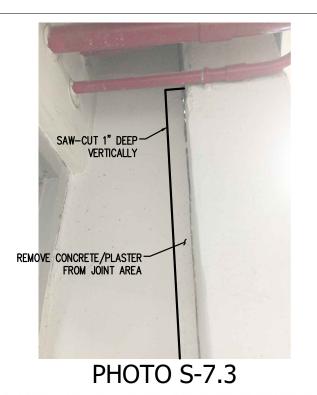
PUMP AND PIPING SUPPORT DETAILS

DATE: APRIL 2018

SHEET: 22 of 31

DRAWING: S-6





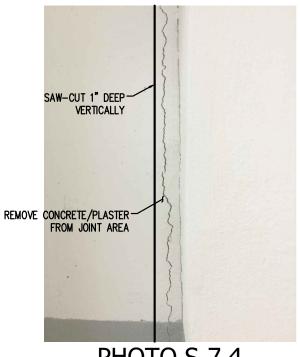


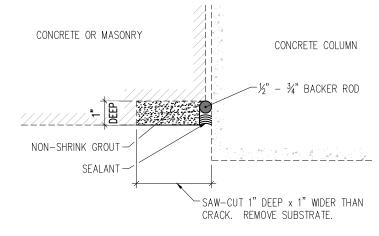
PHOTO S-7.4

JEFFREY R. BERGMANN

No. 50159

CONCRETE OR MASONRY CONCRETE OR MASONRY -EPOXY ADHESIVE FULL LENGTH
OF JOINT ASSEMBLY FASTEN WITH #12 SELF-TAPPING SCREW @ 12" O.C.

EXPANSION JOINT DETAIL







2035 Vista Parkway West Palm Beach, FL 33411 Phone No. 561.687.2220 Fax No. 561.687.1110

APRV'D BY DESIGNED: DATE ISSUED FOR J.R.B. DRAWN: C.A.B. CHECKED: APPROVED: ___J.R.B.

a BAXTER WOODMAN company
semary Avenue, Suite 330, West Palm Beach, Florida 33401
Phone: 561-655-6175 ● Fax: 561-655-6179
www.baxterwoodman.com EB-31795

(22×34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

ENGINEER NO.: 160963 CLIENT PROJECT NO.:160963 CAD REF .: 160963M-P-P&S

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT MASTER LIFT STATION No. 1 REHABILITATION

CONCRETE REPAIR PROCEDURES

DATE: APRIL 2018

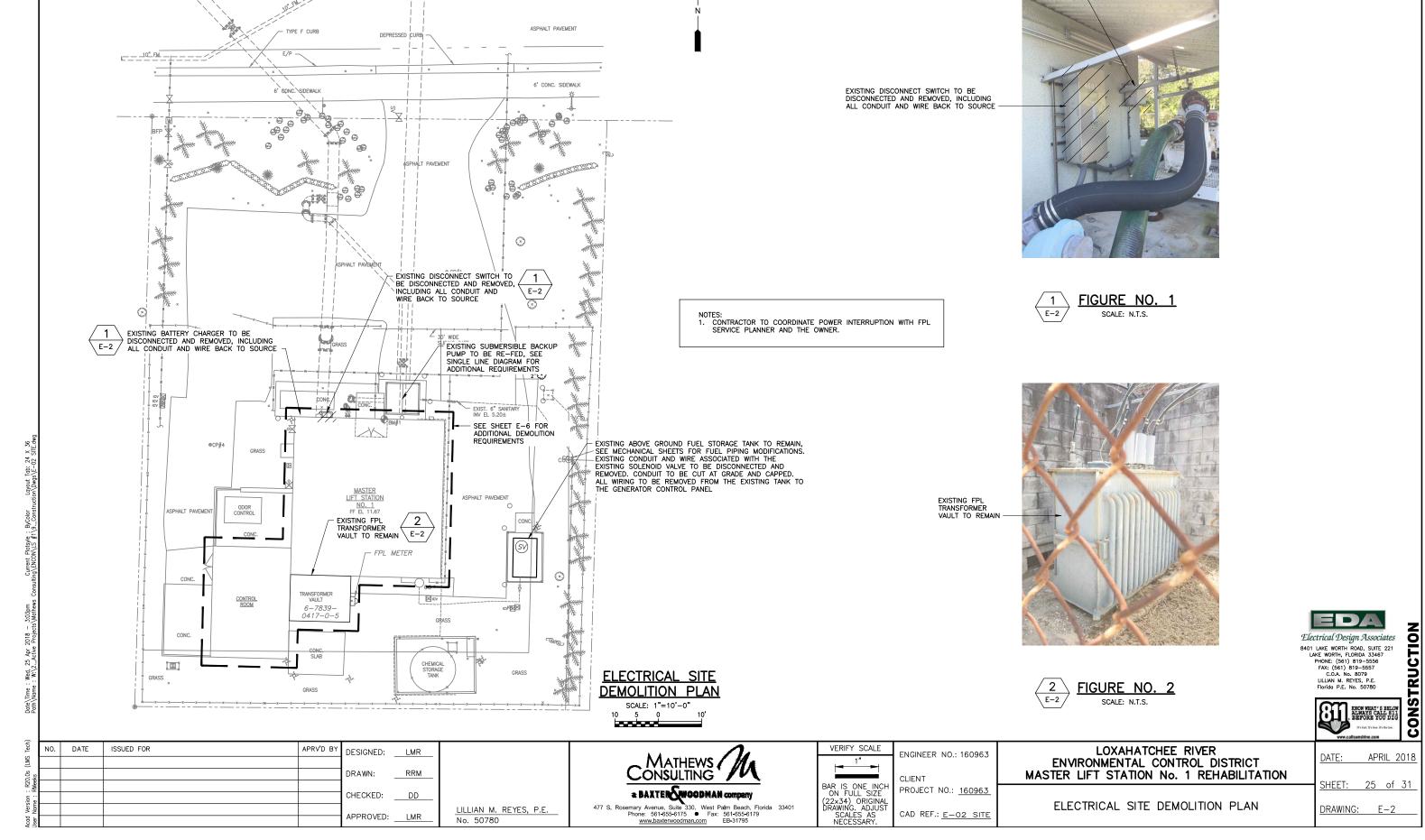
CONSTRUCTION

SHEET: 23 of 31

DRAWING: S-7

NON-SHRINK GROUT (TYP) SAW-CUT 1" DEEP EACH SIDE. REMOVE-SUBSTRATE EACH SIDE OF JOINT. (TYP) WIDTH TO BE DETERMINED T-EXPANSION JOINT ASSEMBLY BY T-EXPANSION MANUFACTURER

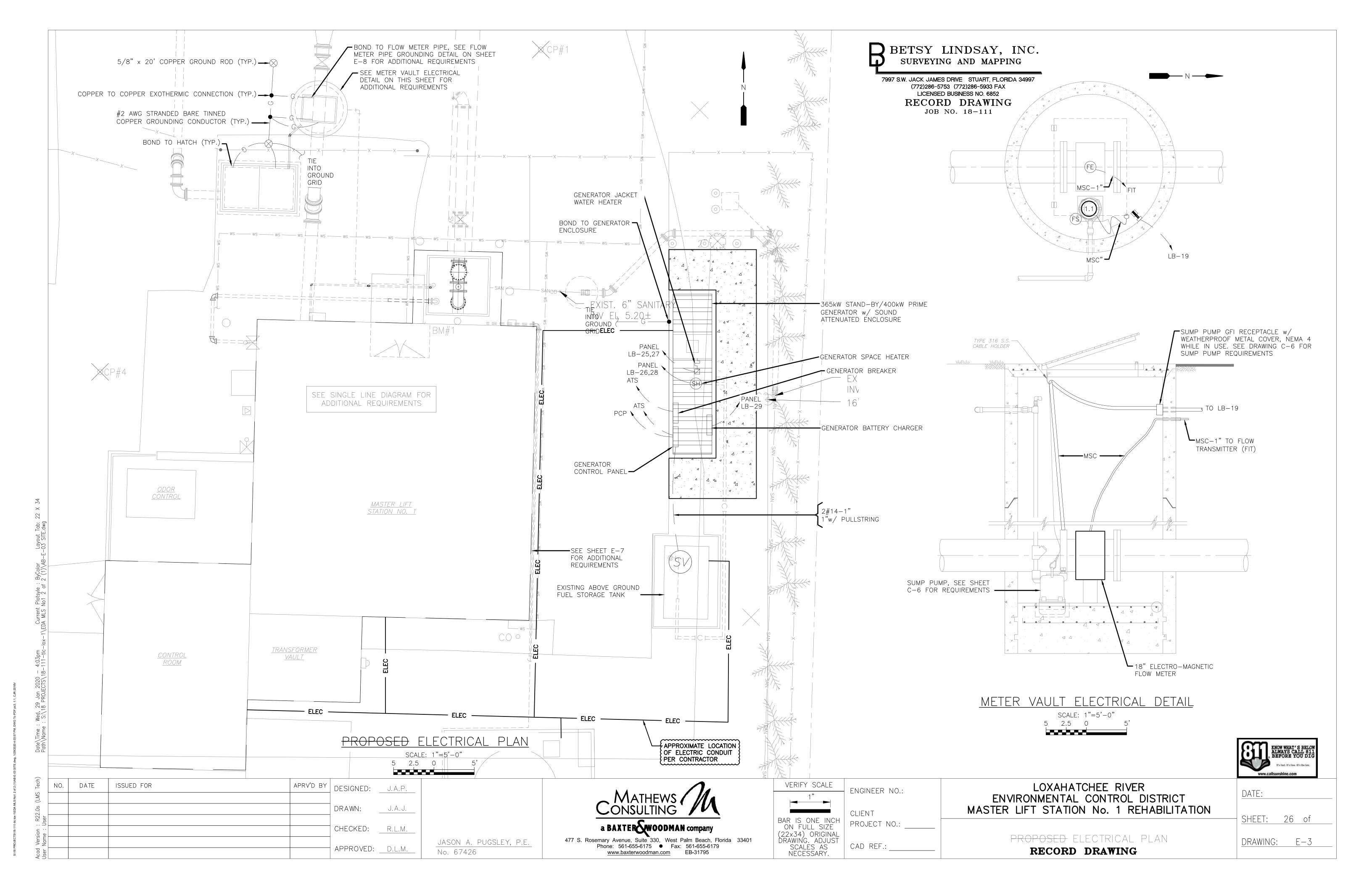
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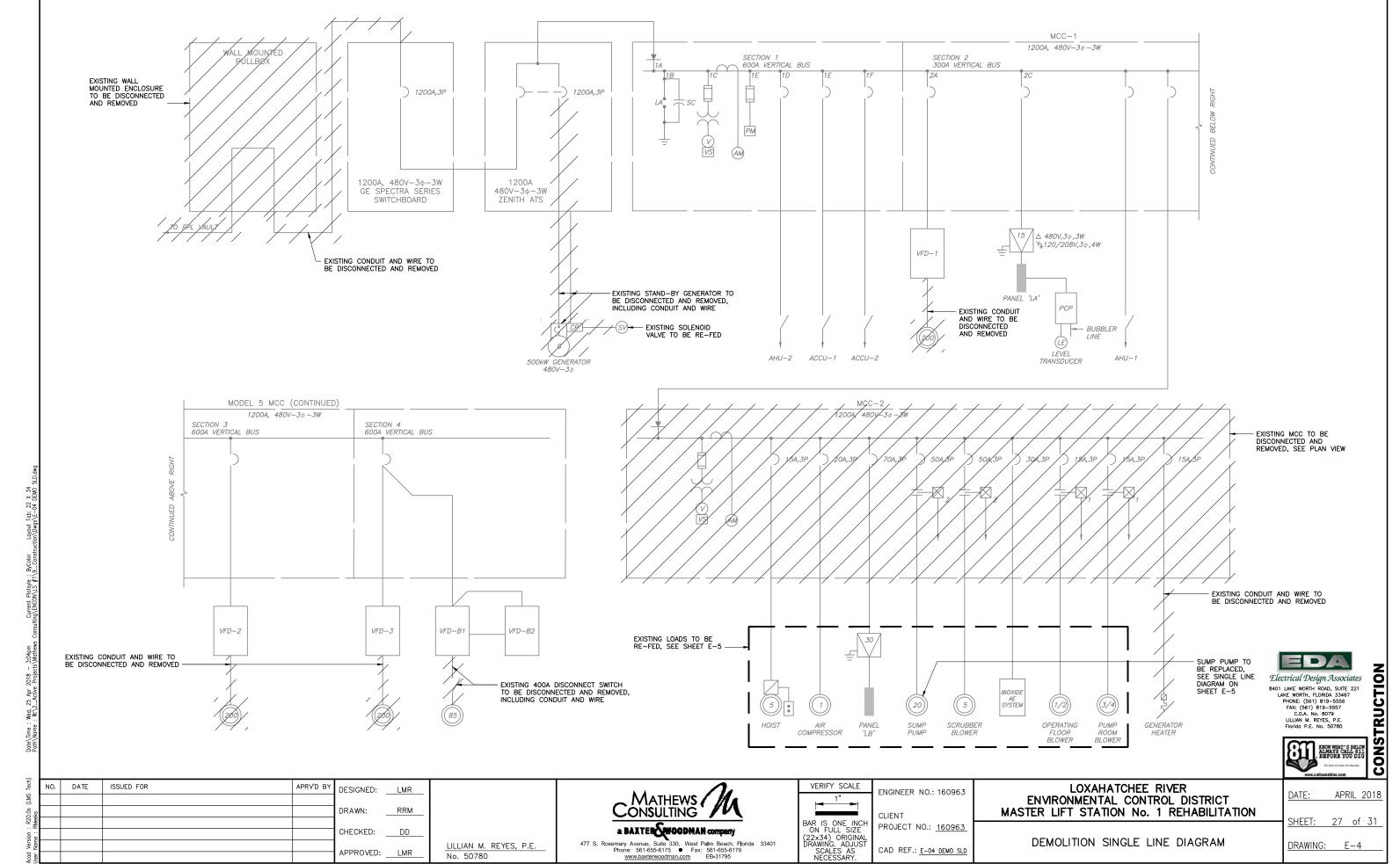


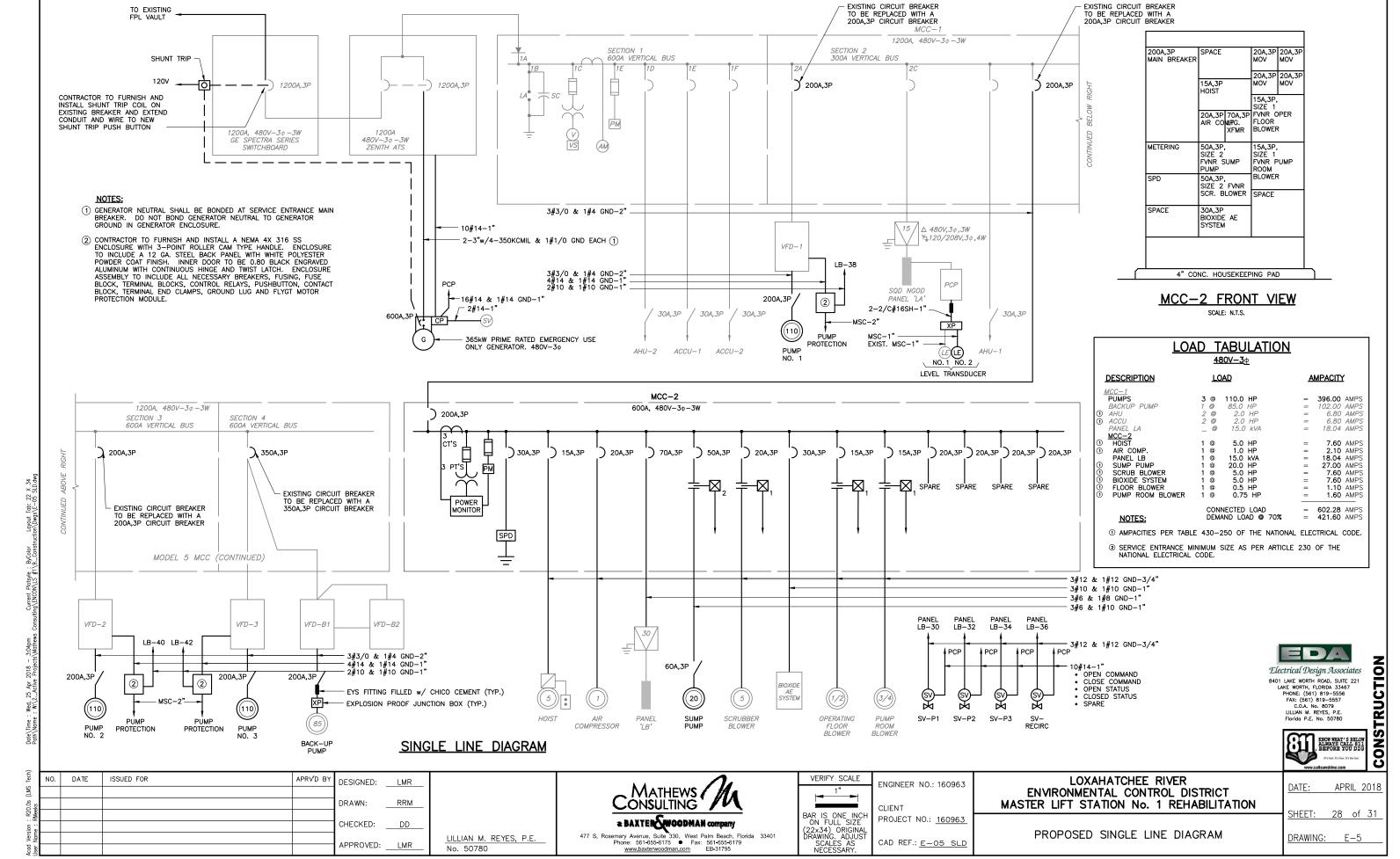
INDIANTOWN ROAD (SR 706)

EXISTING BATTERY CHARGER TO BE DISCONNECTED AND REMOVED, INCLUDING

ALL CONDUIT AND WIRE BACK TO SOURCE







LILLIAN M. REYES, P.E.

No. 50780

CONTRACTOR TO DISCONNECT AND REMOVE OLD RUSS-ELECTRIC ENCLOSURE INCLUDING CONDUIT AND WIRE EXTENDING FROM THE FPL VAULT TO THE ENCLOSURE AND FROM THE ENCLOSURE TO THE MAIN BREAKER



FIGURE NO. 4

EXISTING BUBBLER LINE AND LEVEL TRANSDUCER TO BE DISCONNECTED AND REMOVED, SEE SINGLE LINE DIAGRAM

FOR REQUIREMENTS



FIGURE NO. 5





LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT MASTER LIFT STATION No. 1 REHABILITATION

OPERATIONS ROOM ELECTRICAL DEMOLITION PLAN

APRIL 2018

DRAWING: E-6

___29 of 31

CHECKED: DD APPROVED: LMR

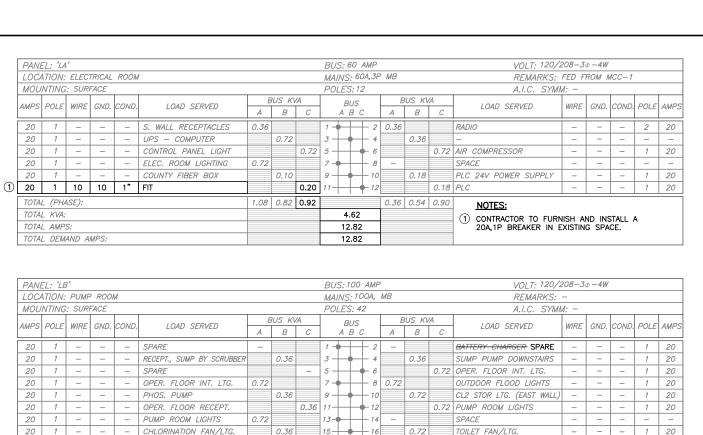
a BAXTER WOODMAN company

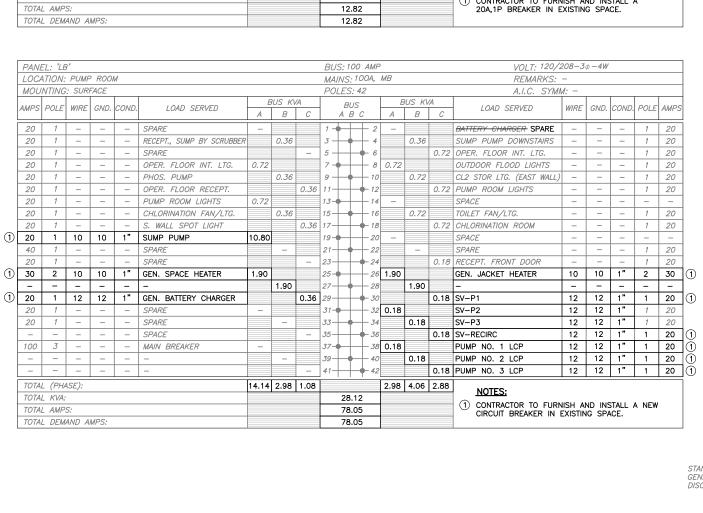
BAR IS ONE INCH ON FULL SIZE (22×34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

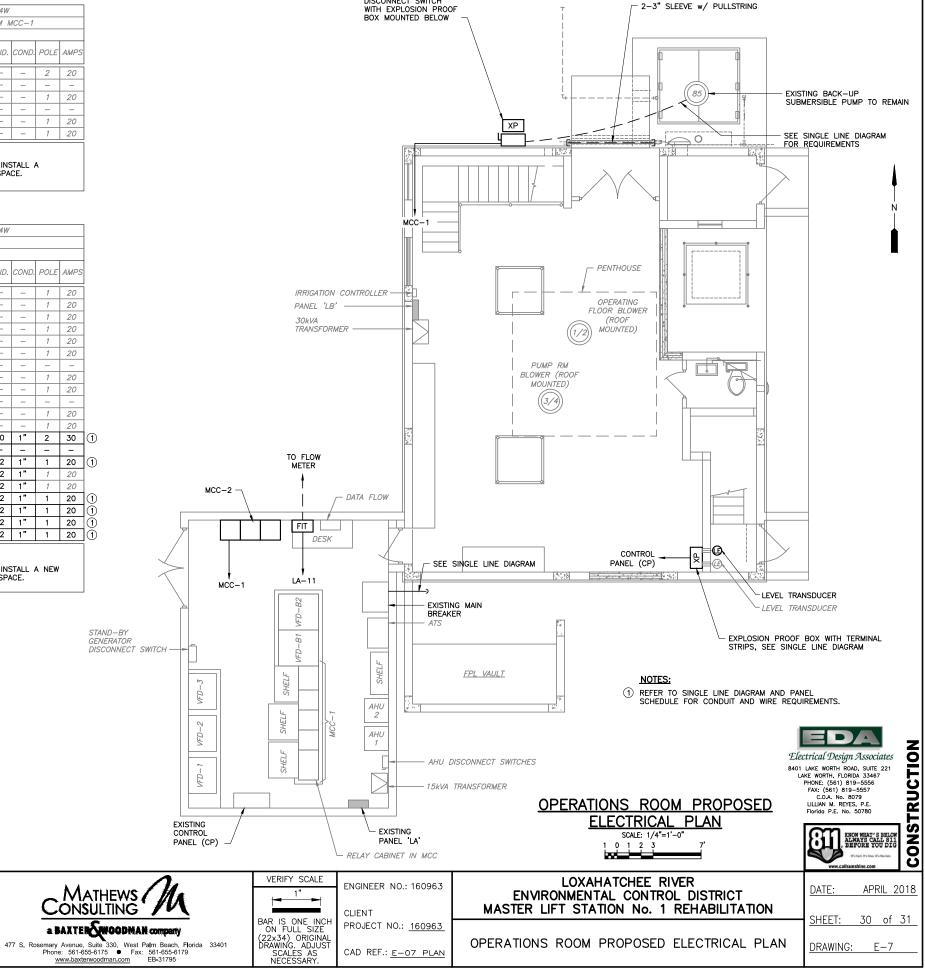
PROJECT NO.: 160963

CAD REF .: E-06 DEMO PLAN

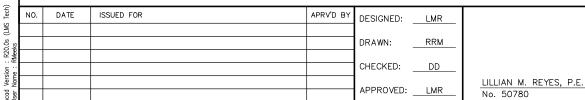




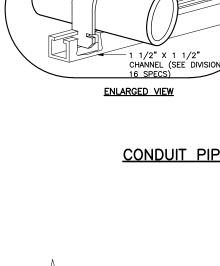


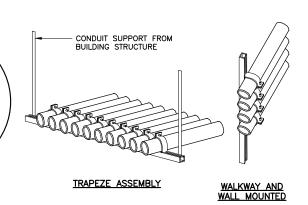


DISCONNECT SWITCH





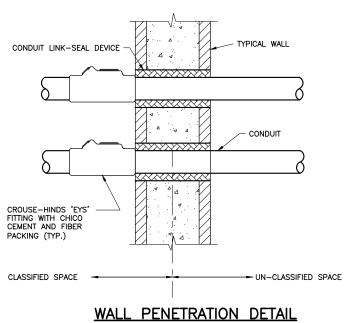


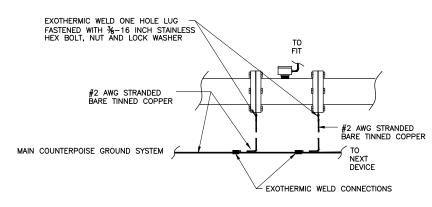


CONDUIT PIPE STRAP MOUNTING DETAILS

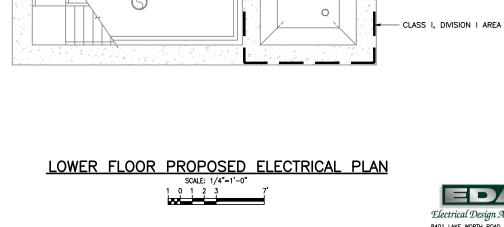
SCALE: N.T.S.

CONDUIT CLAMP





FLOW METER PIPE GROUNDING DETAIL

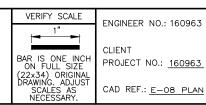


EXISTING EMERGENCY DRY-PIT SUMP PUMP TO BE REPLACED, SEE SINGLE



NO.	DATE	ISSUED FOR	APRV'D BY	DESIGNED: LMR	
				DRAWN: RRM	
				CHECKED: DD	
				ONLONED	LILLIAN M. REYES, P.E.
				APPROVED: <u>LMR</u>	No. 50780
	NO.	NO. DATE	NO. DATE ISSUED FOR	NO. DATE ISSUED FOR APRV'D BY	DESIGNED: LMR DRAWN: RRM CHECKED: DD





ENGINEER NO.: 160963	I
CLIENT PROJECT NO.: 160963	ŀ
11100000 1100000	l

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT MASTER LIFT STATION No. 1 REHABILITATION

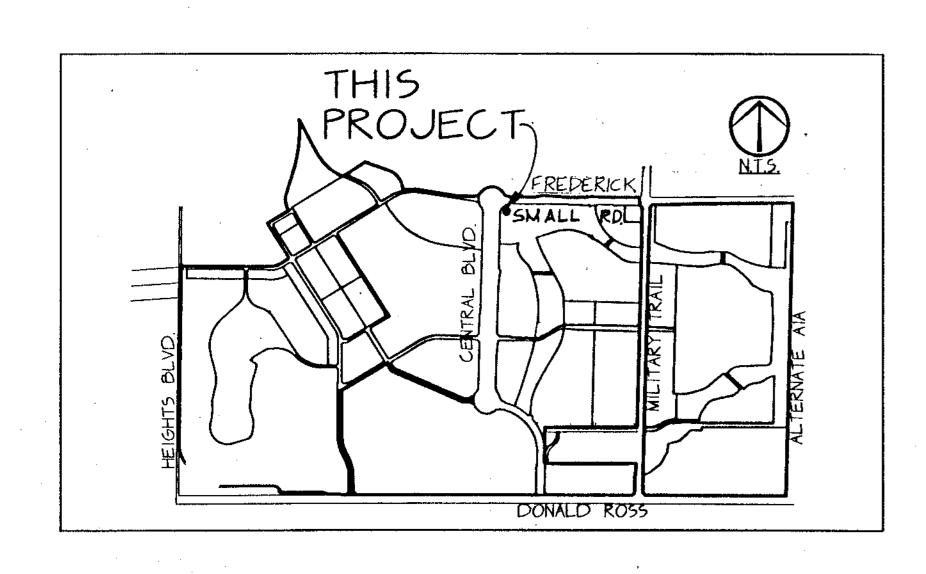
LOWER FLOOR PROPOSED ELECTRICAL PLAN AND DETAILS

CONSTRUCTION APRIL 2018 DATE:

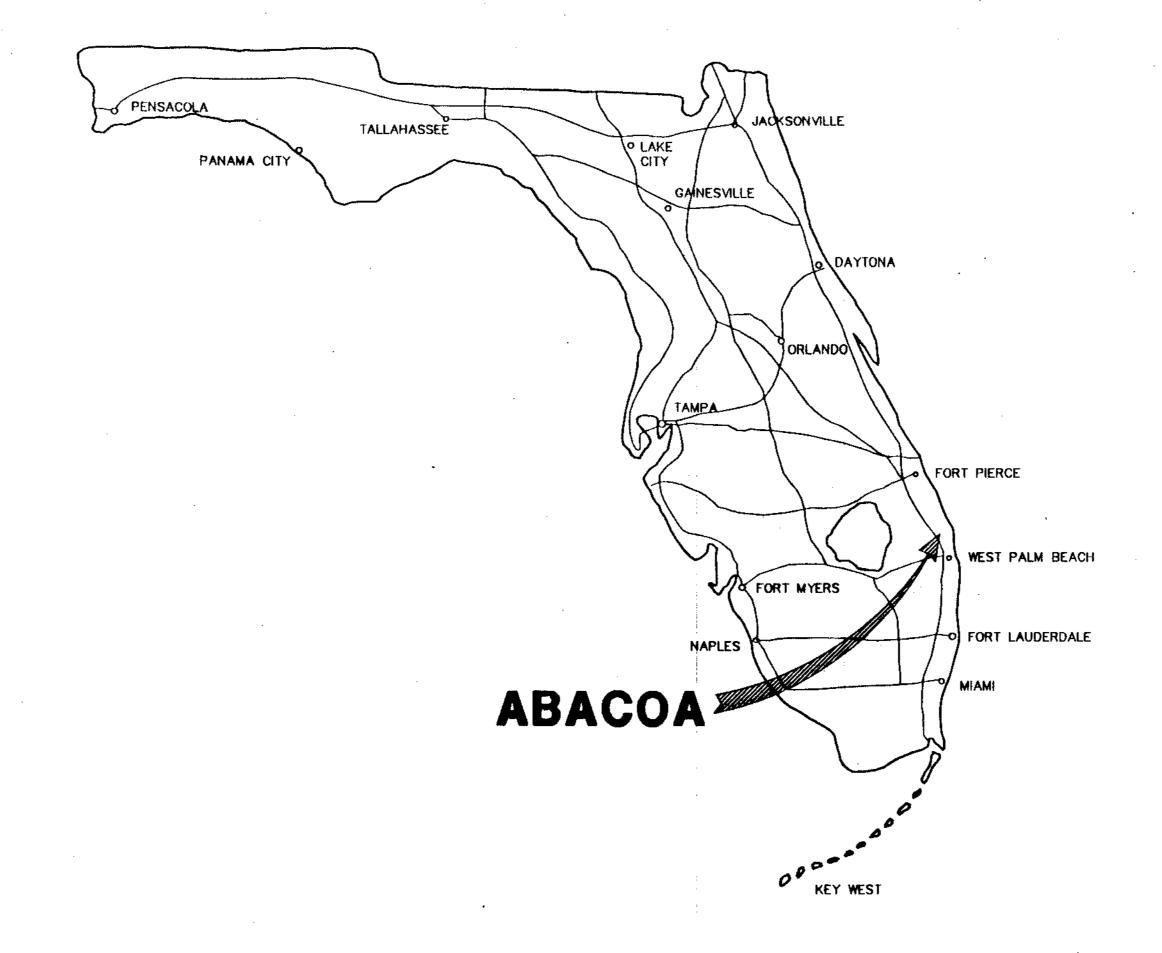
DRAWING: E-8

31 of 31

ABACOA WINP 9A MASTER LIFT STATION

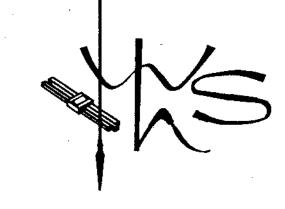


LOCATION MAP (N.T.S.)



INDEX OF SHEETS

	COVER SHEET
1	SITE PLAN & DETAILS
2	YARD PIPING
3	MECHANICAL PLAN
4	MECHANICAL SECTIONS
5	GRINDER PUMP STATION & DETAILS
6	MECHANICAL & PIPE DETAILS
7	ELEVATIONS
8	STRUCTURAL PLAN & DETAILS
9	STRUCTURAL DETAILS
E-1	ELECTRICAL SYMBOLS & ABBREVIATIONS
E-2	ELECTRICAL SITE PLAN
E-3	MCC SINGLE LINE DIAGRAM
E-4	ELEMENTARY CONTROL DIAGRAMS
E-5	
E-6	PUMP CONTROL PANEL DIAGRAM ELECTRICAL PLANS
E-7	
E-8	LIGHTING FIXTURE SCHEDULE & DETAILS
H-1	ELECTRICAL DETAILS
H-2	HVAC SYMBOLS, ABBREVIATIONS & DETAILS HVAC PLAN & DETAILS
P-1	
F 1	PLUMBING SYMBOLS ABBREVIATIONS, SCHEDULES & DETAILS
P-2	PLUMBING PLAN & RISERS

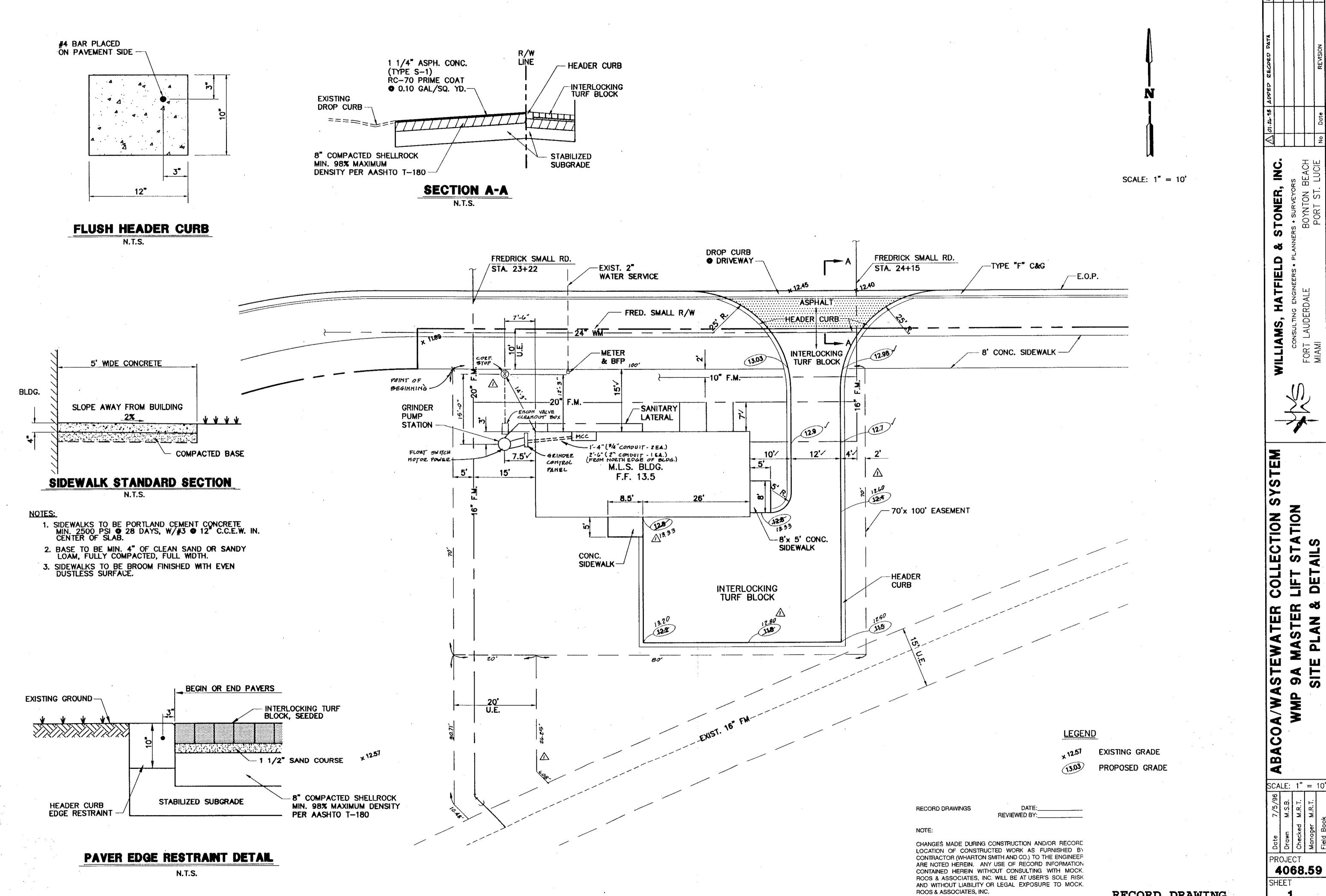


WILLIAMS, HATFIELD & STONER, INC. CONSULTING ENGINEERS PLANNERS SURVEYORS

FORT LAUDERDALE BOYNTON BEACH

AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO MOCK, ROOS & ASSOCIATES, INC.

ENGINEERS PROJECT NO. 4068.59



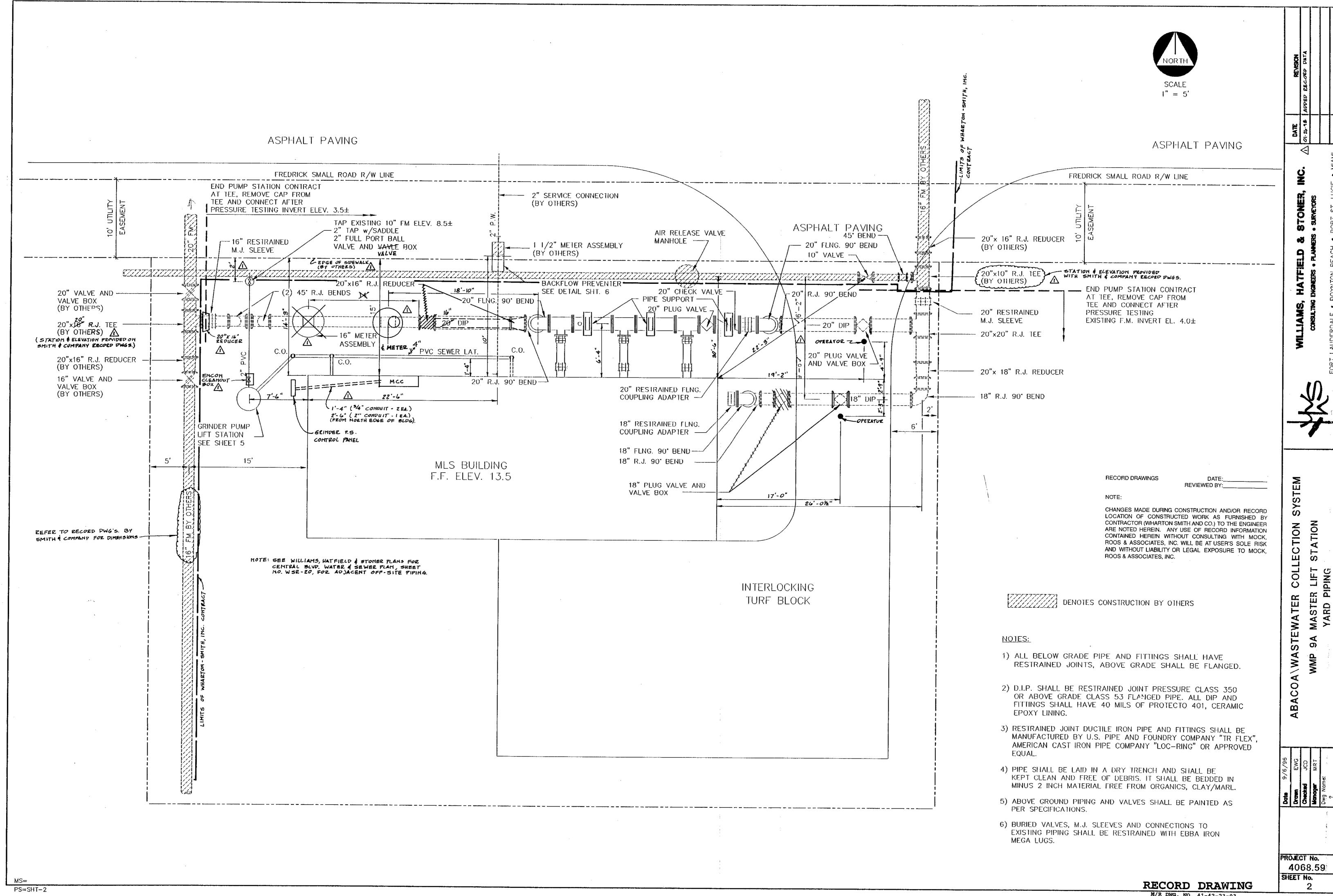
RECORD DRAWING

M/R DWG. NO. 41-42-23-03

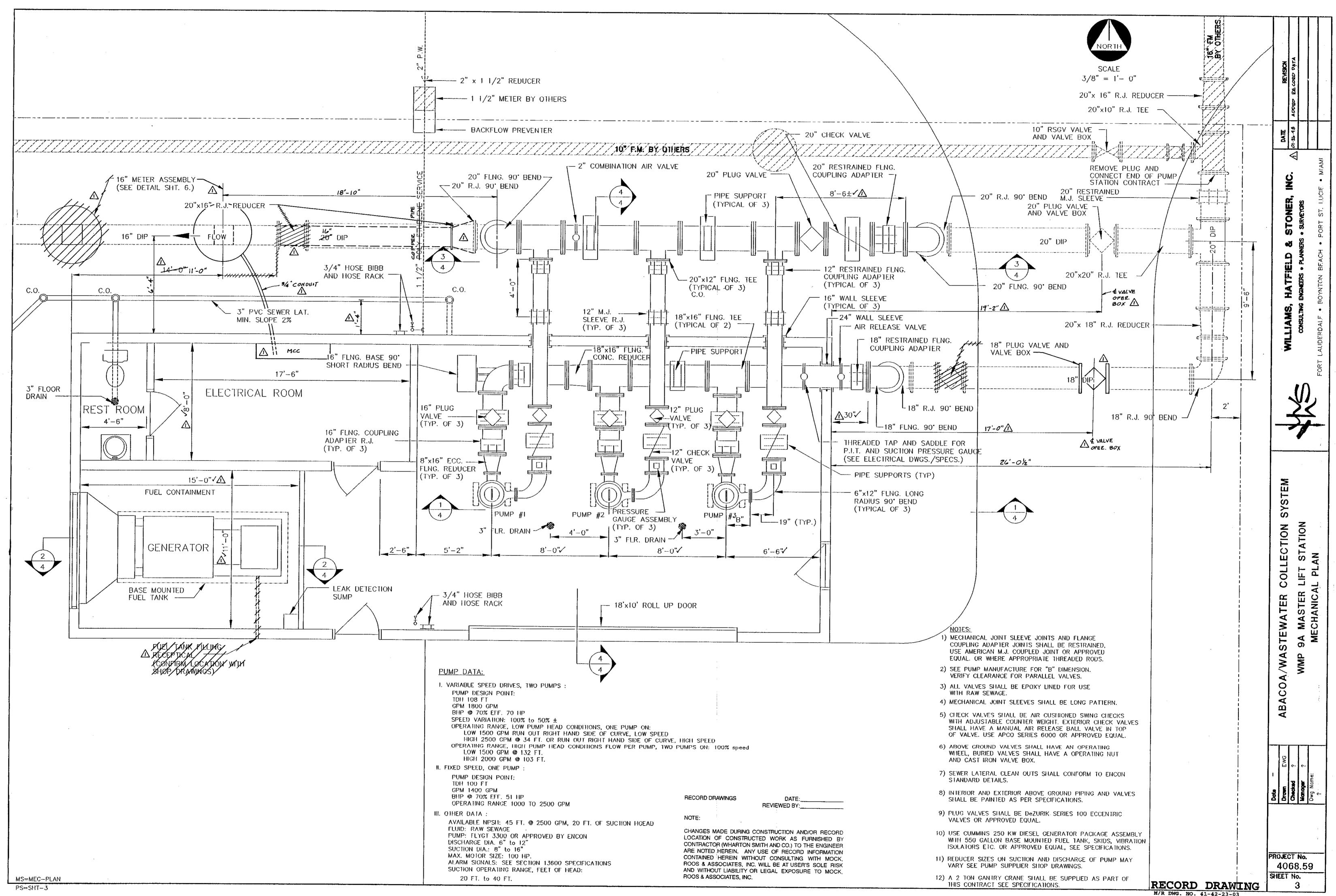
PROJECT 4068.59

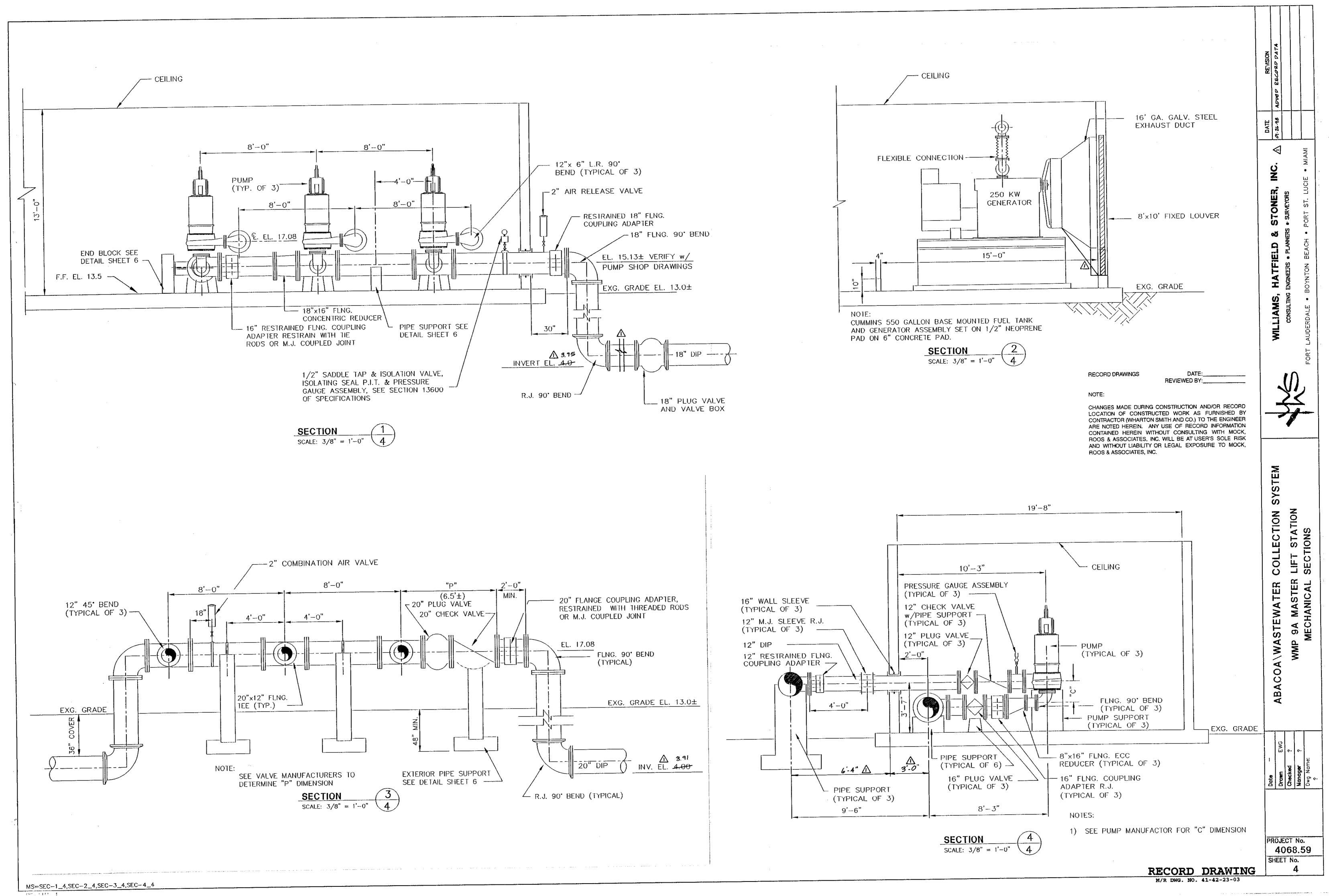
ATION

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M/R DWG. NO. 41-42-23-03





PROJECT No.

SHEET No.

4068.59

NOTE:

CHANGES MADE DURING CONSTRUCTION AND/OR RECORD LOCATION OF CONSTRUCTED WORK AS FURNISHED BY CONTRACTOR (WHARTON SMITH AND CO.) TO THE ENGINEER ARE NOTED HEREIN. ANY USE OF RECORD INFORMATION CONTAINED HEREIN WITHOUT CONSULTING WITH MOCK, ROOS & ASSOCIATES, INC. WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO MOCK,

RECORD DRAWING

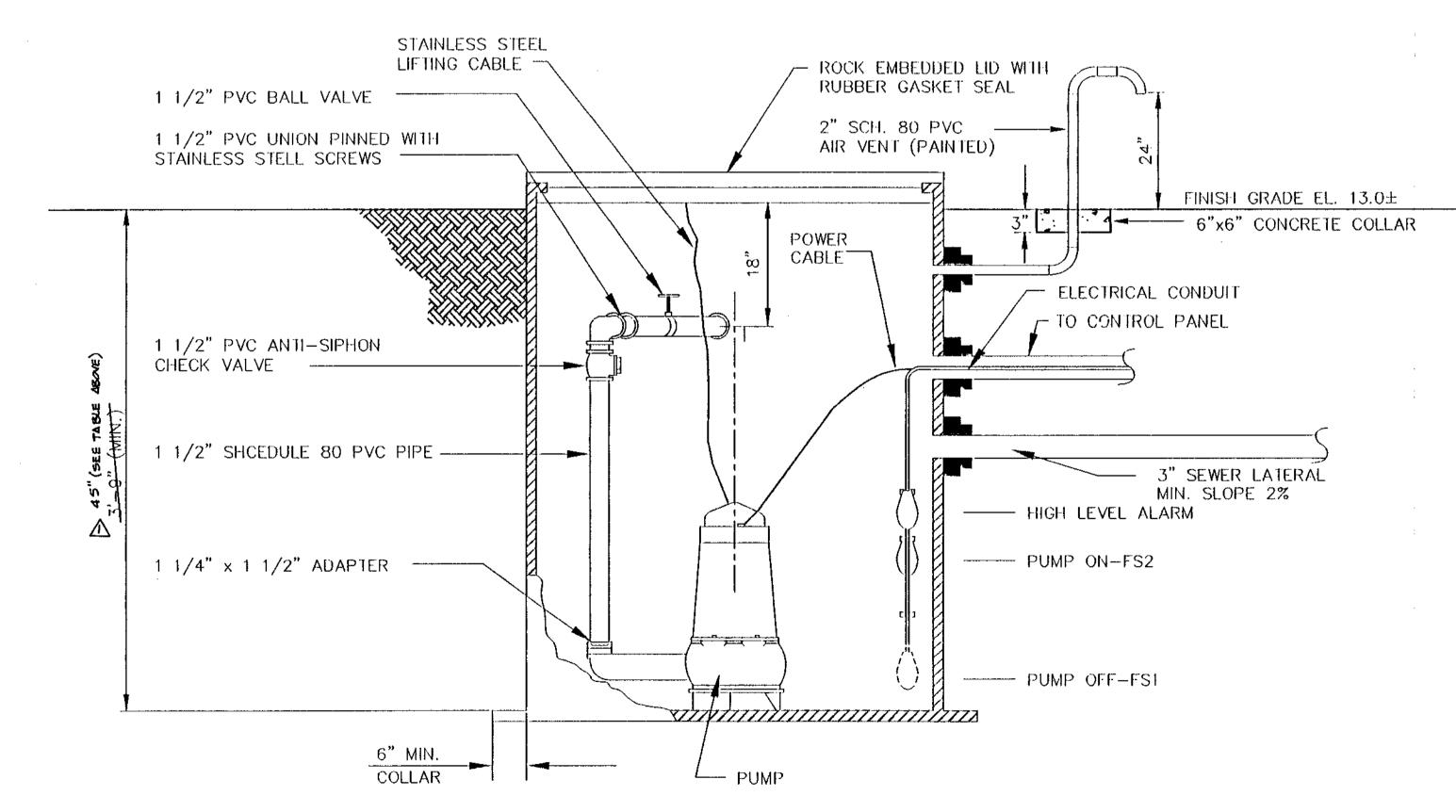
ABACOA #9 MASTER LIFT STATION - GRINDER MF0130852580334 1.5" MF3085/258 FLYGT GRINDER 3HP 3/60/460 VOLT SERIAL # 1729530025 36" DIA. FIBERGLASS WETWELL

45" DEEP

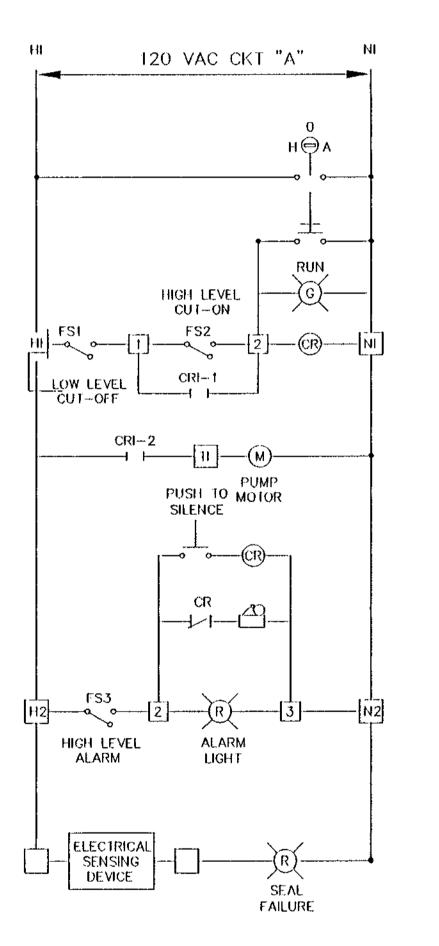
PPFG36WW

ENCON CLEANOUT TO 10" FORCE MAIN 1 1/4" NPT FLANGE — 3" SEWER LATERAL 2" SCH. 40 PVC 1 1/2"x2" REDUCER 2" SCH. 80 PVC AIR VENT 36" O.D. 200 GALLON (PAINTED) PUMP BASIN -STAINLESS STEEL LIFTING CABLE 10 CONTROL PANEL POWER CABLE

PLAN VIEW



TYPICAL SECTION NOT TO SCALE



PUMP RUN & ALARM CIRCUIT

ELECTRICAL NOTES:

- 1. HIGH WATER LEVEL ALARM BOX SHALL HAVE A SEPARATE 120 VAC SUPPLY SOURCE FROM THE PUMP MOTOR SUPPLY SOURCE.
- 2. WIRING CONNECTIONS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR.

- MANUFACTURER'S'S RECOMMENDATIONS.

GRINDER PUMP CONTROL SCHEMATIC DIAGRAM

RECORD DRAWINGS

REVIEWED BY:__

ROOS & ASSOCIATES, INC.

M/R DWG. NO. 41-42-23-03

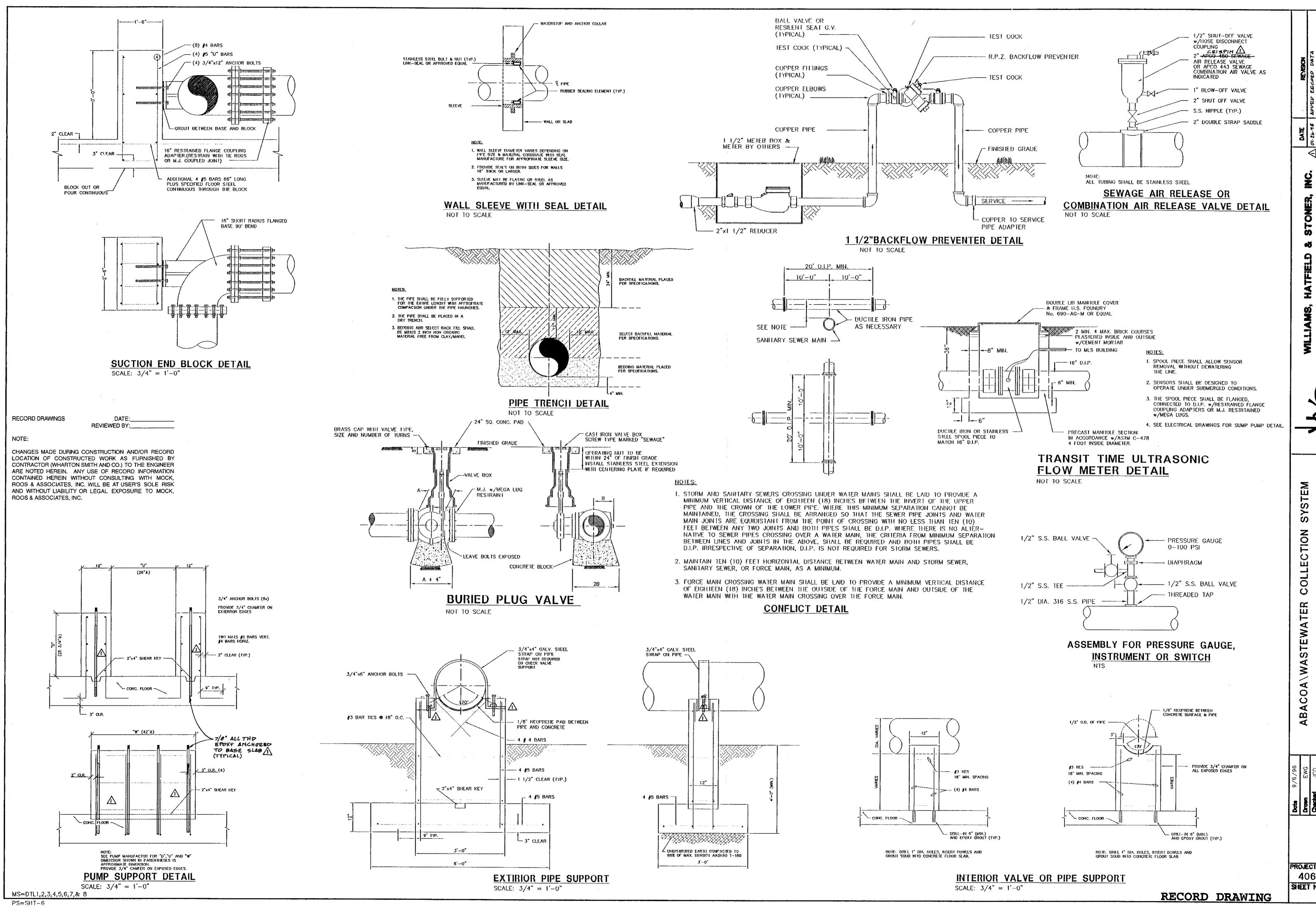
=GRINDER

3. ELECTRICAL INSTALLATION SHALL COMPLY WITH THE NEC., NESC. AND LOCAL CODES.

4. HIGH WATER BELL/BUZZER ALARM AND FLASHING LIGHT SHALL BE LOCATED NEXT TO THE UTILITY BOX OF THE BUILDING.

5. PUMP SHALL HAVE SEAL FAILURE ELECTRIC PROBE IN OIL CHAMBER.

6. PUMP ON/OFF SETTINGS SHALL BE SET AS PER



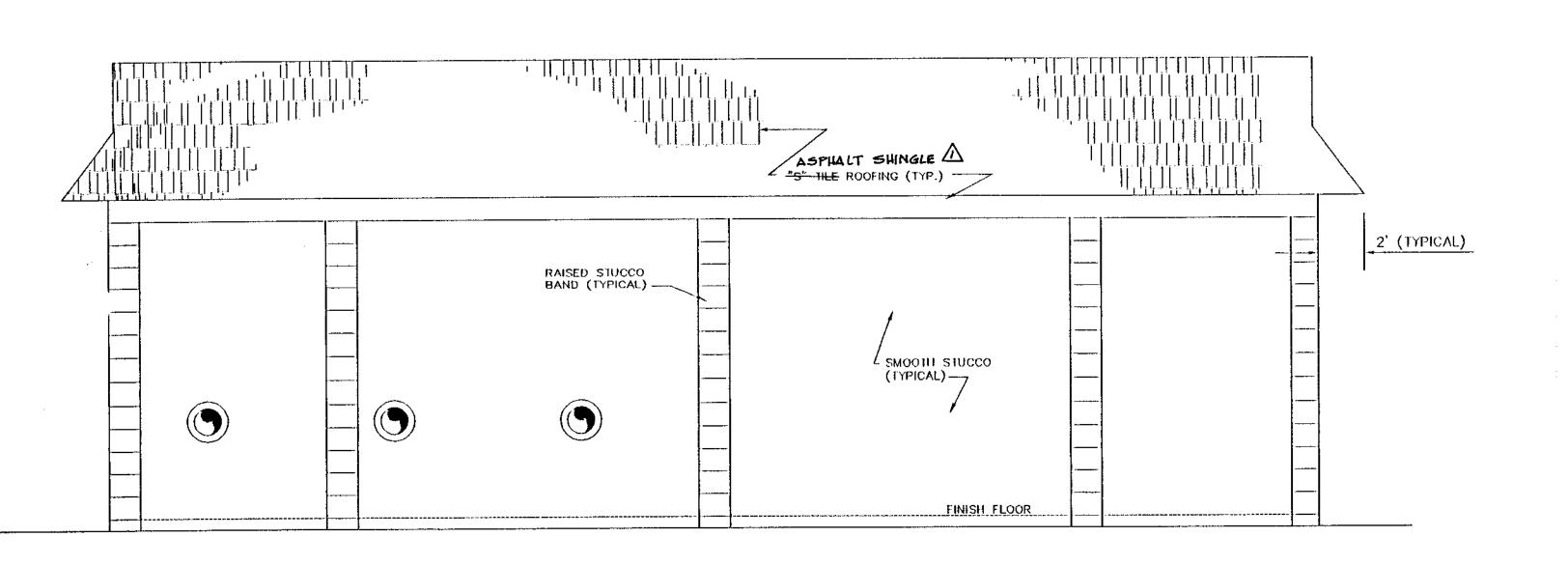
STATION MASTER PIPE DET

9 A

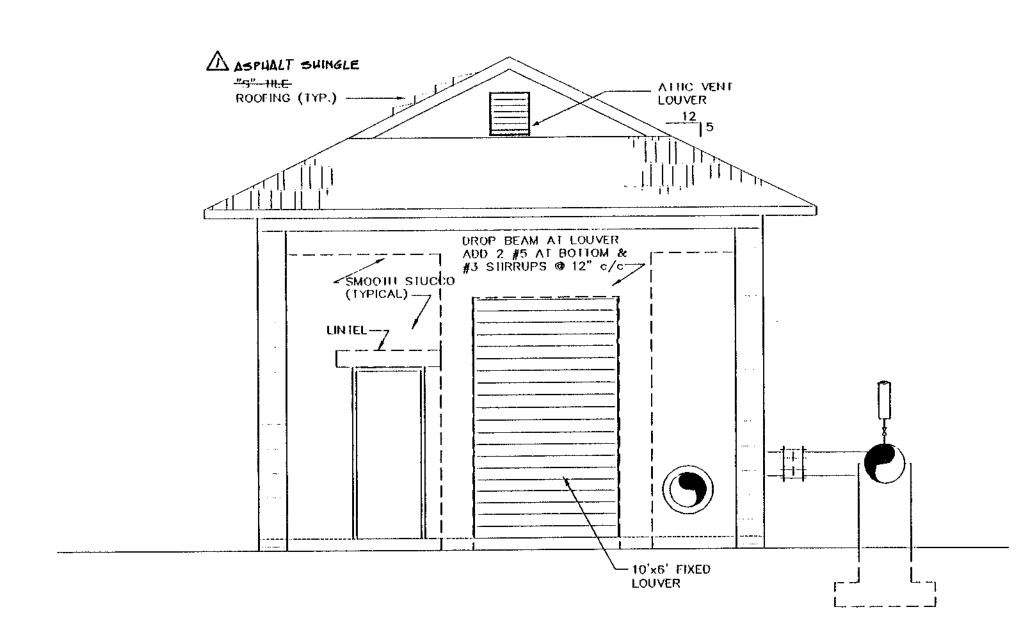
PROJECT No. 4068.59

M/R DWG. NO. 41-42-23-03

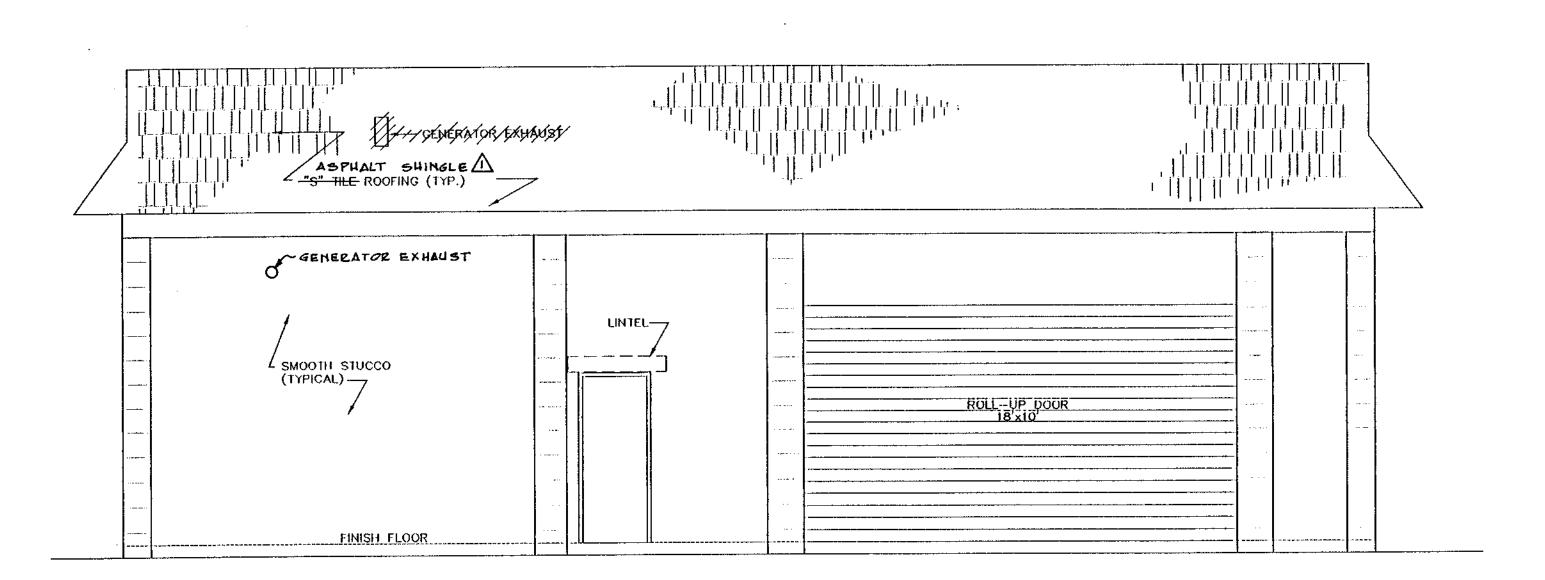
SHEET No.



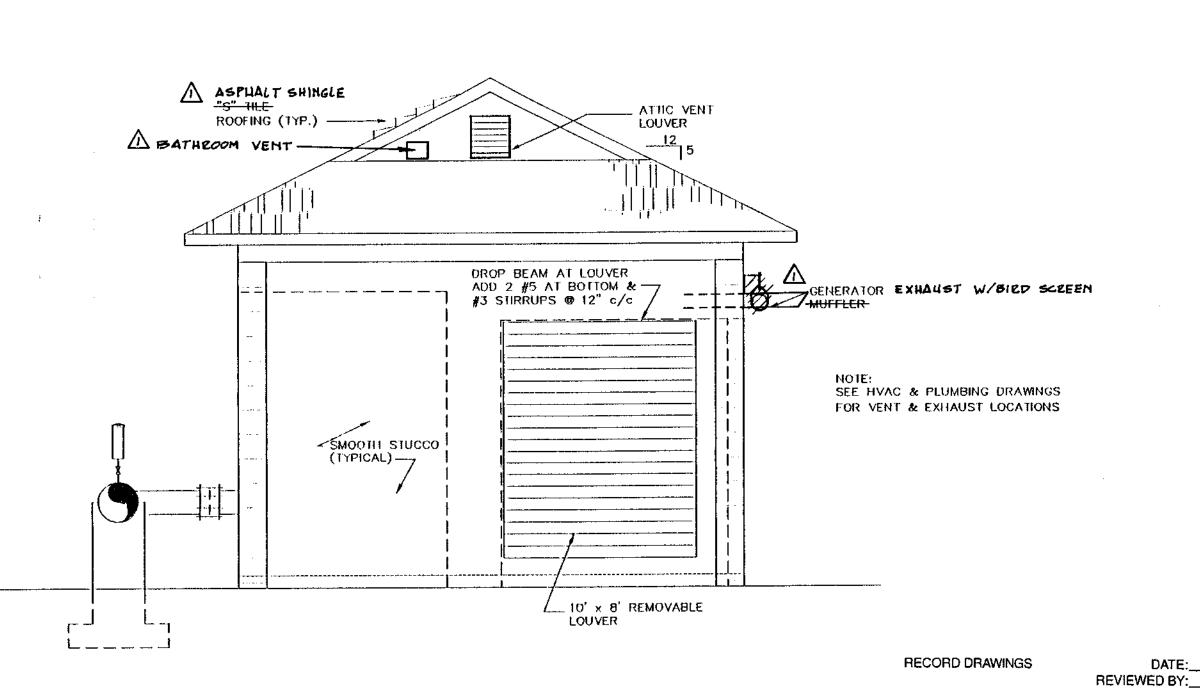
NORTH ELEVATION
SCALE: 1/4" = 1'-0"



EAST ELEVATION
SCALE: 1/4" = 1'-0"



SCALE: 1/4" = 1'-0"



WEST ELEVATION
SCALE: 1/4" = 1'-0"

NOTE: CHANGES MADE DURING CONSTRUCTION AND/OR RECORD LOCATION OF CONSTRUCTED WORK AS FURNISHED BY CONTRACTOR (WHARTON SMITH AND CO.) TO THE ENGINEER ARE NOTED HEREIN. ANY USE OF RECORD INFORMATION CONTAINED HEREIN WITHOUT CONSULTING WITH MOCK, ROOS & ASSOCIATES, INC. WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO MOCK, ROOS & ASSOCIATES, INC.

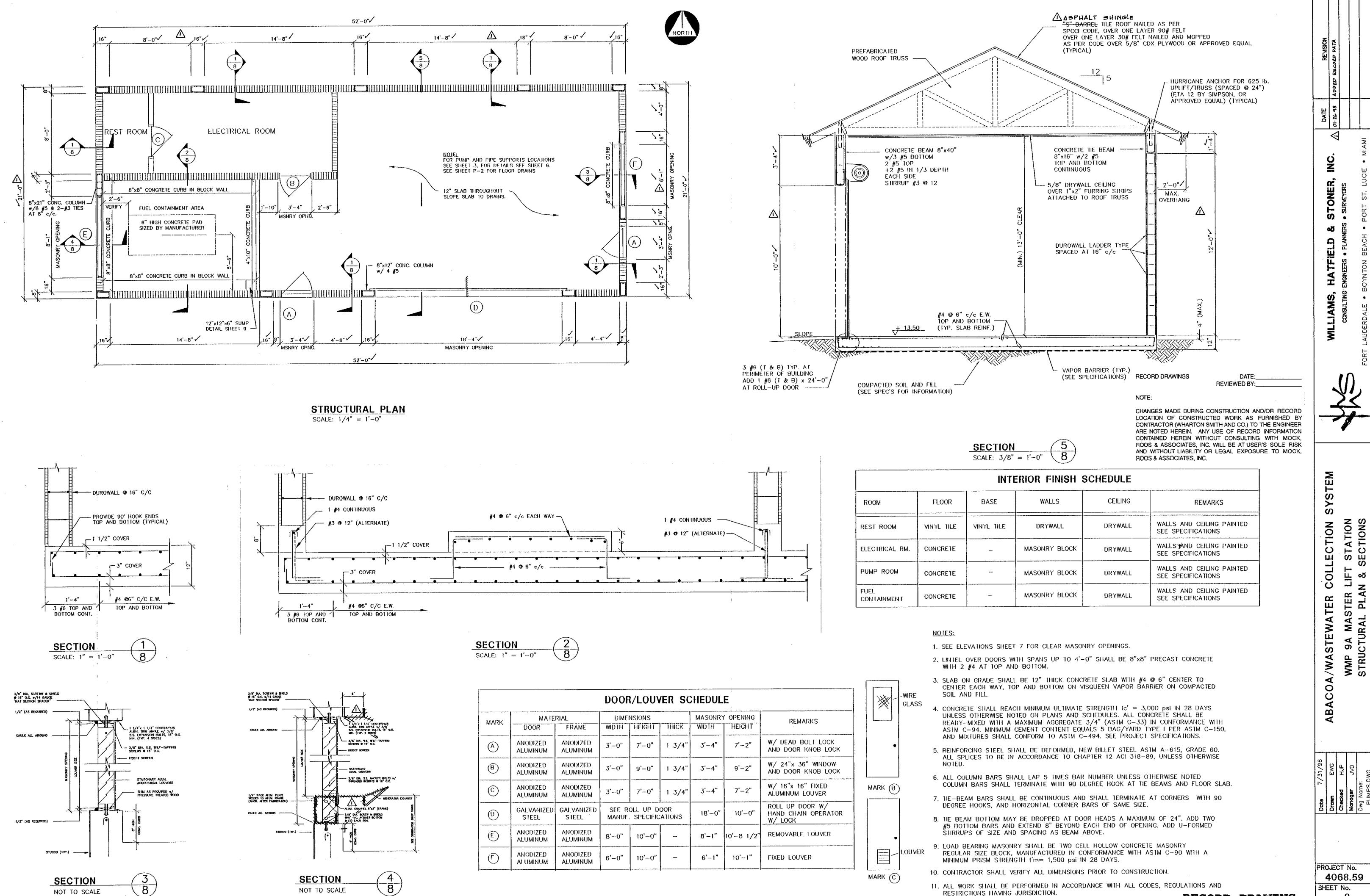
RECORD DRAWING
M/R DWG. No. 41-42-23-03

MS=NORTH, SOUTH, EAST & WEST

SYS. STATION COLLECTION MASTER LIFT ELEVATIONS ABACOA\WASTEWATER 9A

WMP

PROJECT No. 4068.59 SHEET No.



MS=STR-PLAN, SEC1_8, 2, 3, 4, 5, 6, & 7

1,0-CHA D

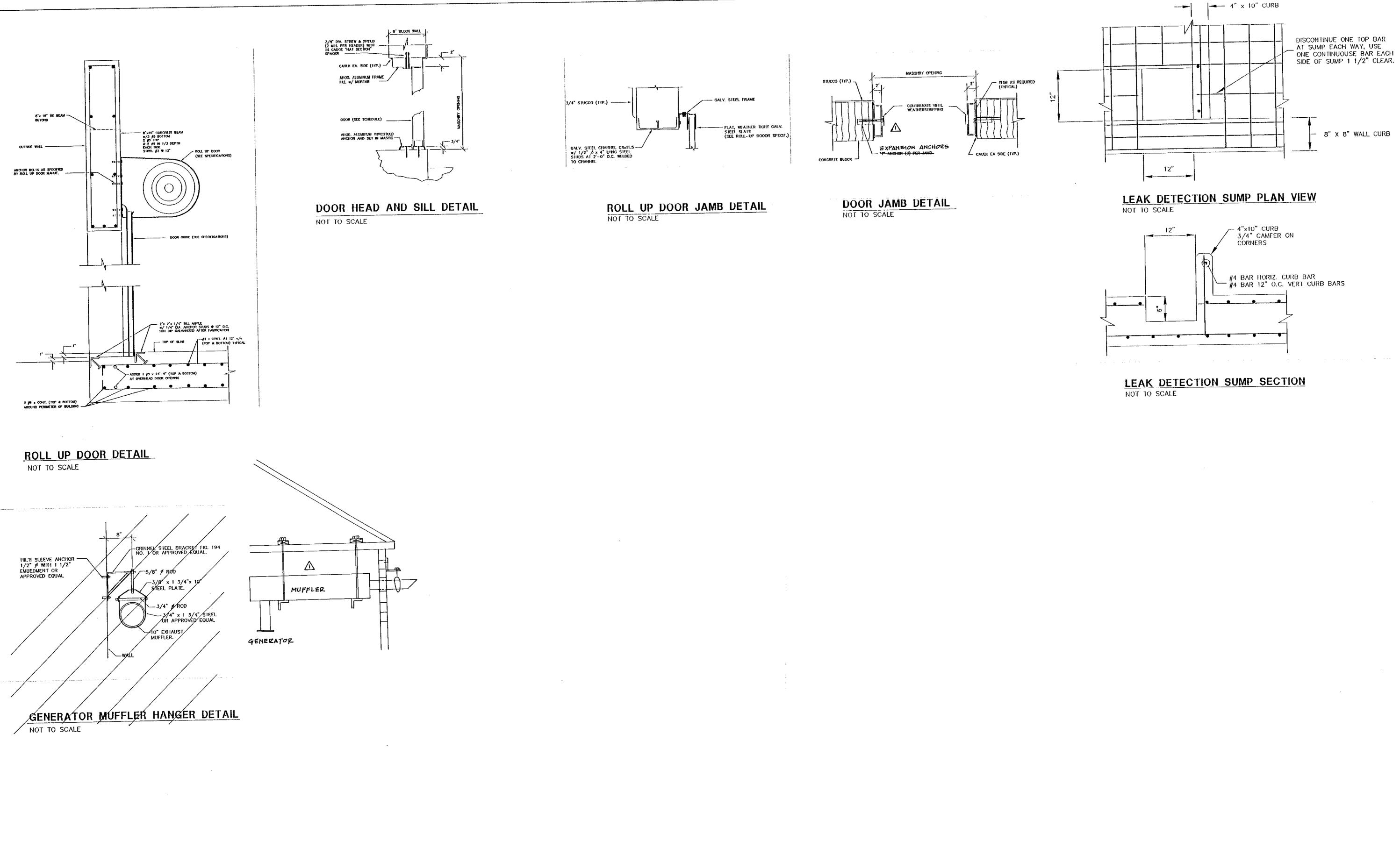
M/R DWG. NO. 41-42-23-03

4068.59 SHEET No.

TATION

Sin

RECORD DRAWING



RECORD DRAWINGS REVIEWED BY:_____

CHANGES MADE DURING CONSTRUCTION AND/OR RECORD LOCATION OF CONSTRUCTED WORK AS FURNISHED BY CONTRACTOR (WHARTON SMITH AND CO.) TO THE ENGINEER ARE NOTED HEREIN. ANY USE OF RECORD INFORMATION CONTAINED HEREIN WITHOUT CONSULTING WITH MOCK, ROOS & ASSOCIATES, INC. WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO MOCK, ROOS & ASSOCIATES, INC.

RECORD DRAWING

M/R DWG. NO. 41-42-23-03

MS=RDR_DTL,DR_DTL,RDJ_DTL,DJ_DTL, & MUFF_DTL

STONER,

HATFIELD

WILLIAMS, I

TEM

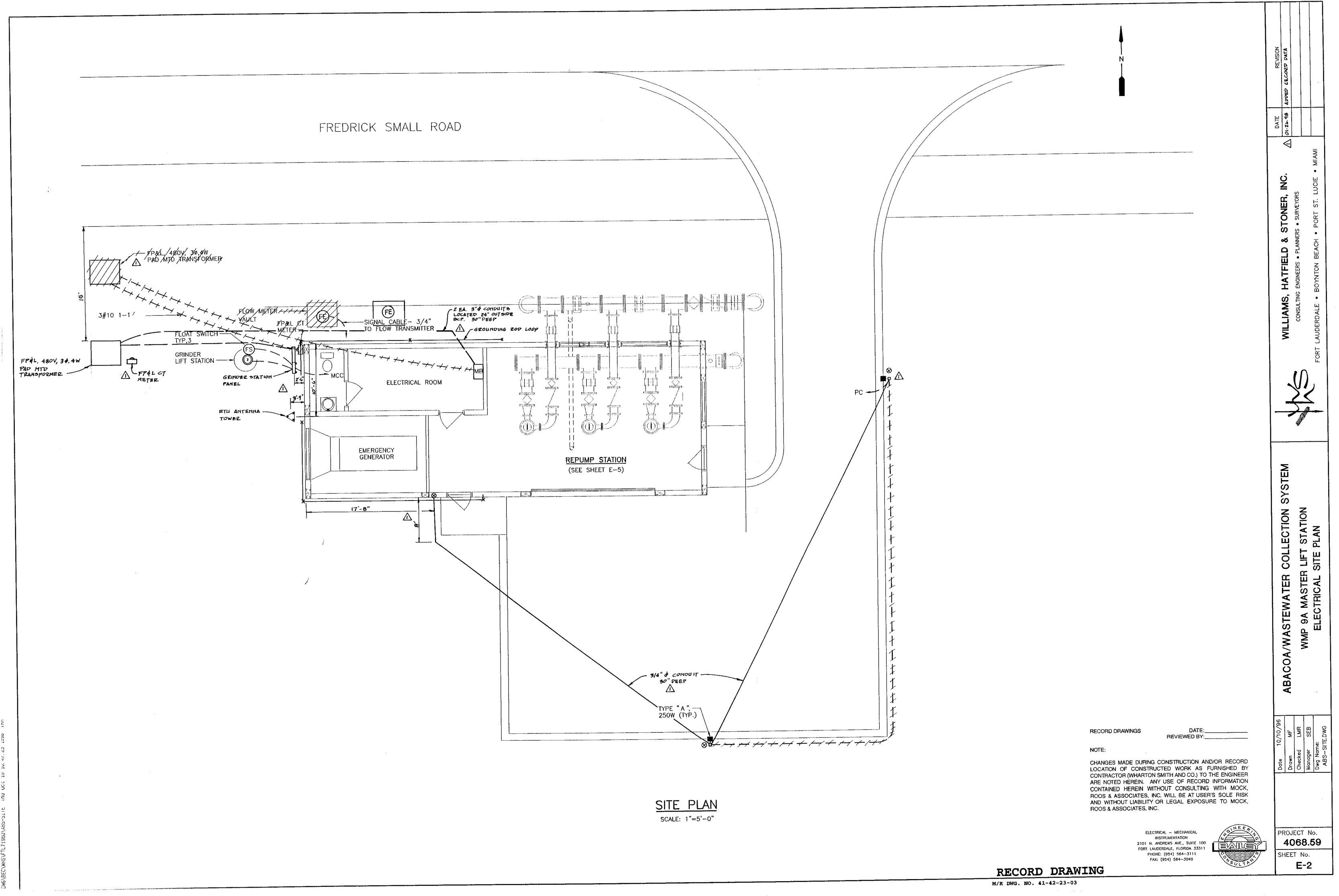
SYS.

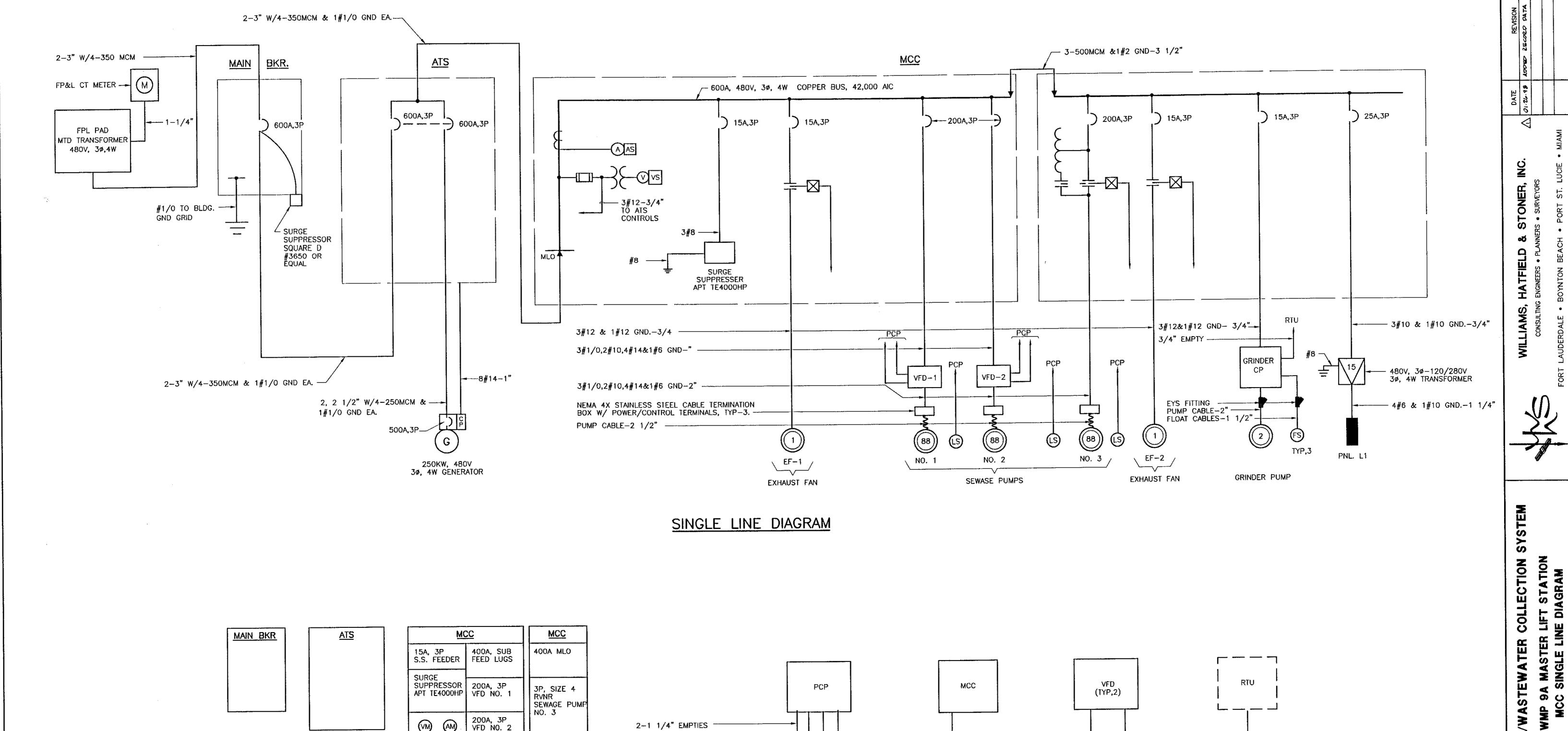
COLLECTION

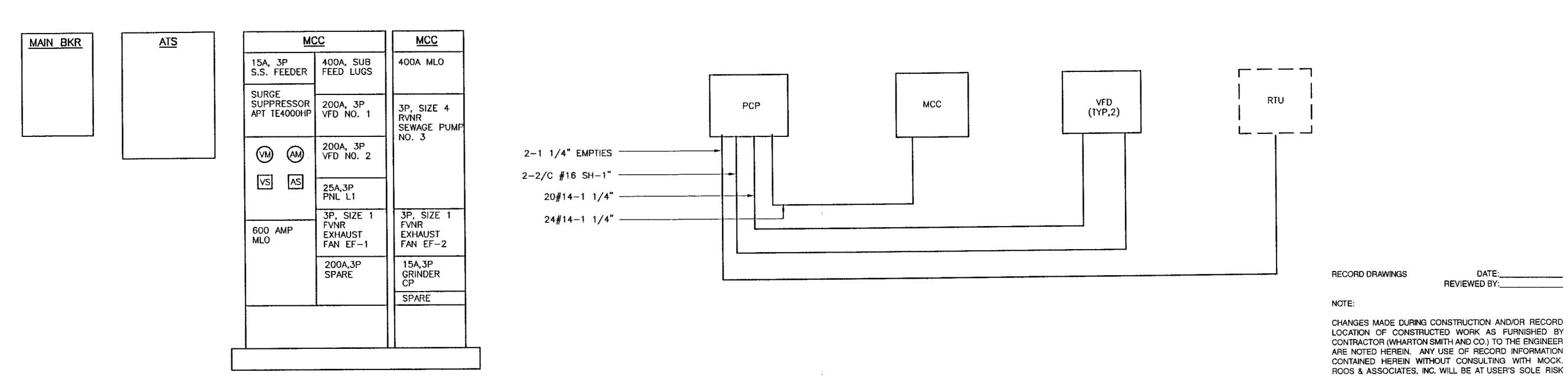
9A MASTER | STRUCTURAL

PROJECT No. 4068.59

						NOTES	
	PLAN SYMBOLS	SIN	IGLE LINE DIAGRAM SYMBOLS	CO	NTROL DIAGRAM SYMBOLS		
	HOME RUN TO PANELBOARD. NO. OF ARROWS INDICATE NO. OF CIRCUITS, HASH MARKS INDICATE NO. OF #12 AWG. CONDUCTORS. NO HASH MARKS INDICATE 2 #12	100	ELECTRIC A.C. MOTOR, NO. INDICATES HORSEPOWER.	K	KEYED SWITCH		PATA PATA
	CONDUCTORS. CONDUIT CONCEALED IN WALL, IN SLAB ABOVE, OR ABOVE CEILING		SERVICE OR EQUIPMENT GROUND.		MAINTAINED CONTACT ON-OFF SWITCH	1. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO THE MECHANICAL DRAWINGS & APPROVED MANUFACTURER'S SHOP DRAWINGS FOR THE EXACT LOCATION OF ALL EQUIPMENT.	E.CO.D.
	CONDUIT CONCEALED IN WALL, IN SOID ABOVE, SIX ABOVE SELECTION OF UNDERGROUND.	/	NON-FUSIBLE DISCONNECT SWITCH, 30A,3P UNLESS OTHERWISE INDICATED.	1	START/STOP (S/S) CONTROL SWITCH MAINTAINED CONTACT	2. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE &	8 090
	CONDUIT RUN EXPOSED. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL.				THREE POSITION MAINTAINED CONTACT SELECTOR SWITCH	LOCAL CODES.	8 40
O***	FLEXIBLE CONDUIT WITH EQUIPMENT CONNECTION.	<u> </u>	NON-FUSIBLE DISCONNECT SWITCH, 30A,3P UNLESS OTHERWISE INDICATED, WITH REMOTE CONTROL STATION AS REQUIRED BY ELEMENTARY DIAGRAMS OR SPECS		FUSE		DATE 01.26.48
	CONCRETE ENCASED DUCTBANK.				MOLDED CASE CIRCUIT BREAKER CONTROL POWER TRANSFORMER	4. SLANTED TEXT DENOTES EXISTING EQUIPMENT OR STRUCTURES. NON-SLANTED TEXT DENOTES NEW EQUIPMENT, STRUCTURES, & WORK.	4
O A	CEILING MOUNTED LIGHTING FIXTURE, LETTER INDICATES TYPE (TYPICAL).		LIGHTING PANELBOARD		REMOTE TERMINAL BLOCK POINT		MI AM
10	WALL MOUNTED LIGHTING FIXTURE.		POWER PANELBOARD				<u> </u>
	FLUORESCENT LIGHTING FIXTURE, CEILING MOUNTED. EXTERIOR LUMINARE AND MOUNTING STANDARD.				A DEDENMATIONIC	_	LER, IN
<u>ئ</u>	EMERGENCY BATTERY PACK LIGHTING FIXTURE.				ABBREVIATIONS		ONE SURVE)
⊢ ③ ③	CEILING OR WALL MOUNTED EXIT LIGHT FIXTURE WITH BATTERY PACK. PROVIDE ARROWS AS REQUIRED.	│	REDUCED VOLTAGE, NON-REVERSING STARTER	A	AMPERES		STS .
	FLUORESCENT LIGHTING FIXTURE, WALL MOUNTED.			ACCU AFF	AIR COOLED CONDENSING UNIT ABOVE FINISHED FLOOR		D &
O	JUNCTION BOX PER N.E.C., FLUSH MOUNTED UNLESS INDICATED OTHERWISE.			AHU AIC	AIR HANDLING UNIT AMPS INTERRUPTING CURRENT	LOCATION MAP	FIELI GN BE
	FLUSH OR SURFACE MOUNTED LIGHTING PANELBOARD.			ALR APR	ALARM RELAY ACID PUMP RELAY		HATE ENGINEER
///X	FLUSH ('URFACE MOUNTED POWER PANELBOARD.			ATS BKR	AUTOMATIC TRANSFER SWITCH BREAKER BUILDING		
№	DRY TYPE TRANSFORMER. NO. INDICATES KVA RATING. 25A, 208V, 3Ø SINGLE RECEPTACLE.		CONTROL DIAGRAM SYMBOLS	BLDG CAB CIR	CABINET CIRCUIT		CONSULTING
-⊕	20A, 125V, 3W DUPLEX RECEPTACLE IN FLUSH OUTLET BOX, 18" ABOVE FINISHED FLOOR.		DUPLEX RECEPTACLE	CPR CU	CAUSTIC PUMP RELAY COPPER		WILL
= ⊕	20A 125V 3W DUPLEX RECEPTACLE IN FLUSH	 	NORMALLY OPEN CONTACT	ELEC EM	ELECTRICAL EMERGENCY		3T LA
	OUTLET BOX, 48" ABOVE FINISHED FLOOR OR 2" ABOVE COUNTER AS REQUIRED.	1	NORMALLY CLOSED CONTACT	ENCL ETM	ENCLOSURE ELAPSED TIME METER		2
	WIREMOLD SURFACE METAL RACEWAY SYSTEM WITH 20A, 125V, 3W RECEPTACLES.	~ ∶	LIMIT SWITCH, NORMALLY OPEN	EUH EWC	ELECTRIC UNIT HEATER ELECTRIC WATER COOLER ELECTRIC WATER HEATER		W
•	20A, 125V, 3W DUPLEX RECEPTACLE IN FLUSH, FLOOR MOUNTED OUTLET BOX.	•==	LIMIT SWITCH, NORMALLY CLOSED PRESSURE SWITCH, NORMALLY OPEN	EWH EXIST	EXHAUST EXISTING		
рө	20A, 125V, 3W DUPLEX RECEPTACLE, SURFACE MOUNTED.	<u>۲</u>	PRESSURE SWITCH, NORMALLY CLOSED	FVNR FVR	FULL VOLTAGE NON-REVERSING FEED/FLUSH VALVE RELAY		5
8	50A, 250V, 1Ø, 3W SINGLE RECEPTACLE IN FLUSH OUTLET BOX, 18" ABOVE FINISHED FLOOR.	•••••	FLOAT SWITCH, NORMALLY OPEN	GEN GFI	GENERATOR GROUND FAULT INTERRUPTER		
S	SINGLE POLE SWITCH IN FLUSH OUTLET BOX, 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED (TYPICAL).	· 7	FLOAT SWITCH, NORMALLY CLOSED	GND GRS	GROUND GALVANIZED RIGID STEEL		
S	SINGLE POLE SWITCH, SURFACE MOUNTED. THREE-WAY SWITCH IN FLUSH OUTLET BOX.	7.	FLOW SWITCH, NORMALLY OPEN	HOA HOR	HAND-OFF-AUTOMATIC HAND-OFF-REMOTE HORSEPOWER		Σ
'3 '4	FOUR-WAY SWITCH IN FLUSH OUTLET BOX.		FLOW SWITCH, NORMALLY CLOSED	HP HPR HPS	HIGH PRESSURE RELAY HIGH PRESSURE SODIUM		STE
7	NON-FUSIBLE DISCONNECT SWITCH, 30A,3P UNLESS OTHERWISE INDICATED.	1-2-	TEMPERATURE SWITCH, NORMALLY OPEN	HSP INSTR	HIGH SERVICE PUMP INSTRUMENTATION		SY I
	NON-FUSIBLE DISCONNECT SWITCH, 30A,3P UNLESS OTHERWISE INDICATED WITH REMOTE CONTROL STATION		TEMPERATURE SWITCH, NORMALLY CLOSED	ISO KVA	ISOLATION KILOVOLT-AMPERES		ECTION STATION 3BREVIATI
	AS REQUIRED BY ELEMENTARY DIAGRAMS OR SPECS ELECTRIC A.C. MOTOR, NO. INDICATES HORSEPOWER.		NORMALLY OPEN, TIMED TO CLOSE CONTACT	KW LCR	KILOWATT LOW CHEMICAL RELAY		ECT STA' BRE
	ELECTRIC A.C. MOTOR, NO. INDICATES HORSEPOWER.	丁	NORMALLY CLOSED, TIMED TO OPEN CONTACT	LPT LTG	LOW PRESSURE TIMER LIGHTING		OLLI IFT (
	MOTORIZED VALVE	• 🗸	NORMALLY CLOSED, TIMED TO CLOSE CONTACT	MAX MCC	MAXIMUM MOTOR CONTROL CENTER		
	COMBIN. N MOTOR STARTER	\	NORMALLY OPEN, TIMED TO OPEN CONTACT	MFR MIN MLO	MANUFACTURER MINIMUM MAIN LUGS ONLY		ATER IASTER 'MBOLS
1	THERMOSTAT	RTI	RUN TIME INDICATOR	MTD NEC	MOUNTED NATIONAL ELECTRIC CODE		W A M SY M
-1 - 4 - 2	ELECTRIC HEATER	ITD	INLINE TIME DELAY	NEUT NTS	NEUTRAL NOT TO SCALE		STEW,
•	FLUSH OUTLET BOX AND TELEPHONE COVER PLATE 48" ABOVE FINISHED FLOOR. PROVIDE SUITABLE OUTLET	(S) (PS)	LIMIT SWITCH PRESSURE SWITCH	OC OH	ON CENTER OVERHEAD		/WA\$
LS	LIMIT SWITCH	(S)	SOLENOID VALVE	P PCP	POLE PUMP CONTROL PANEL) A/)
(PS)	PRESSURE SWITCH	(LS)	LIQUID LEVEL SWITCH	PNL PS	PANEL PUMP STATION		AC
S♥	SOLENOID VALVE	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	VIBRATION SWITCH	PTR PVC	PRODUCT TANK RELAY POLYVINYL CHLORIDE		AB
FS	FLOAT SWITCH	(AR)	ALARM RELAY	RECPT RVNR	RECEPTACLE REDUCED VOLTAGE, NON-REVERSING		
FIT LIT	FLOW INDICATING TRANSMITTER LEVEL INDICATING TRANSMITTER	(AT)	ALARM TIMER	SH SS	SHEILDED STAINLESS STEEL		3/96 (G (G
	COMBINATION MOTOR STARTER	©R	CONTROL RELAY	SSR STR	SYSTEM START RELAY STARTER	RECORD DRAWINGS DATE: REVIEWED BY:	MF LMR SEB SEB
(s)	VOLTMETER	M	MOTOR STARTER	SW SWGR	SWITCH SWITCHGEAR	3	Date Drawn Checked Manager Dwg Nam ABS—S
<u> </u>	AMMETER	□ R ×	TIMING RELAY	TC TR	TIME CLOCK TRANSFORMER	LOCATION OF CONSTRUCTED WORK AS FURNISHED BY	0 0 0 0 0
5	THREE PHASE VOLT SWITCH THREE PHASE AMP SWITCH		ALARM INDICATING LIGHT	TYP UG	TYPICAL UNDERGROUND	CONTRACTOR (WHARTON SMITH AND CO.) TO THE ENGINEER ARE NOTED HEREIN. ANY USE OF RECORD INFORMATION CONTAINED HEREIN WITHOUT CONSULTING WITH MOCK,	
(GFI)	GROUND FAULT INTERRUPTER	NO.	RUN INDICATING LIGHT	UPS V VFD	UNINTERRUPTABLE POWER SUPPLY VOLT VARIABLE FREQUENCY DRIVE	ROOS & ASSOCIATES, INC. WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO MOCK, ROOS & ASSOCIATES, INC.	
W	WATT HOUR METER	• •	MOMENTARY CONTACT PUSHBUTTON	W W/	WATT WITH	HOOS & ASSOCIATES, INC. ELECTRICAL MECHANICAL	PROJECT No.
	FUSE SUBSUIT PREAKER	هـلـه	MOMENTARY BREAK PUSHBUTTON OR RESET	WP ø	WEATHERPROOF PHASE	#INSTRUMENTATION 2101 N. ANDREWS AVE., SUITE 100 FORT LAUDERDALE, FLORIDA 33311	4068.59
	MOLDED CASE CIRCUIT BREAKER TYPICAL SFLECTOR SWITCH AND CONTROL. SEE					PHONE: (954) 564-3111 FAX: (954) 564-3040	SHEET No. E-1
E.M	ELEMEN DIAGRAMS FOR EXACT TYPE.					RECORD DRAWING M/R DWG. No. 41-42-23-03	'
]							







MCC FRONT VIEW

N.T.S.

CONTROL CONDUIT RISER DIAGRAM

INSTRUMENTATION 2101 N. ANDREWS AVE., SUITE 100 FORT LAUDERDALE, FLORIDA 33311 PHONE: (954) 564-3111 FAX: (954) 564-3040

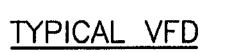
AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO MOCK, ROOS & ASSOCIATES, INC.

ELECTRICAL - MECHANICAL

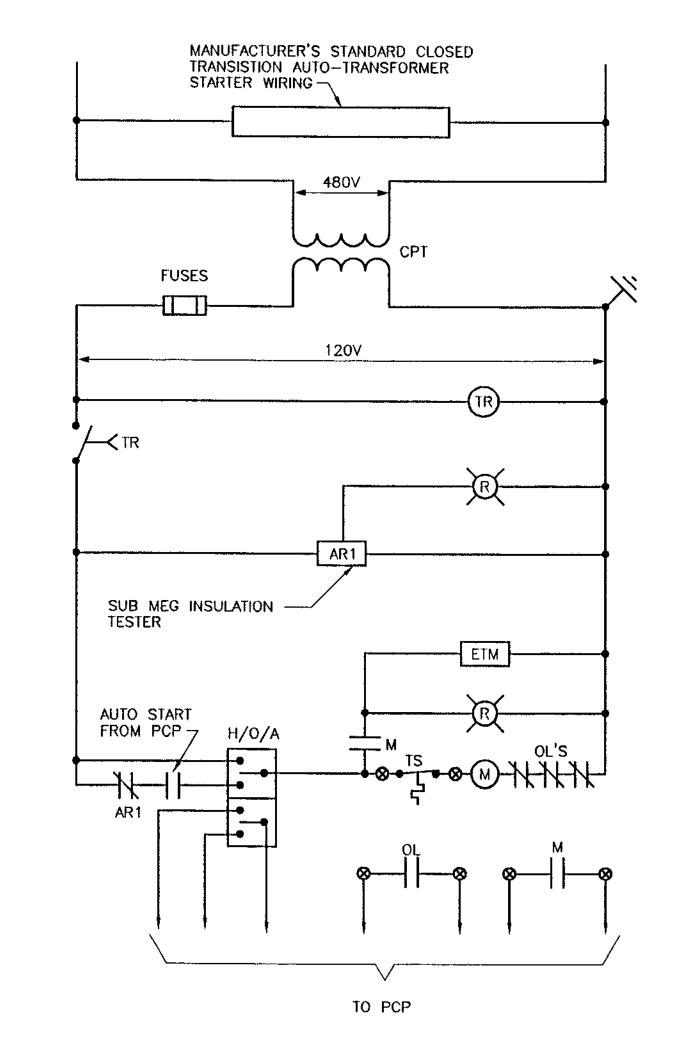
PROJECT No. 4068.59 SHEET No. E-3

/WASTEWATER

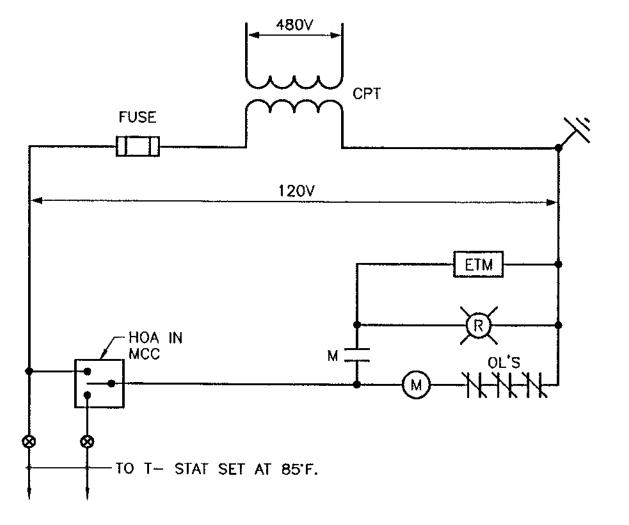
ABACOA/



TO PCP



SEWAGE PUMP NO.3



EXHAUST FANS

RECORD DRAWINGS REVIEWED BY:___

CHANGES MADE DURING CONSTRUCTION AND/OR RECORD LOCATION OF CONSTRUCTED WORK AS FURNISHED BY CONTRACTOR (WHARTON SMITH AND CO.) TO THE ENGINEER ARE NOTED HEREIN. ANY USE OF RECORD INFORMATION CONTAINED HEREIN WITHOUT CONSULTING WITH MOCK, ROOS & ASSOCIATES, INC. WILL BE AT USER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO MOCK, ROOS & ASSOCIATES, INC.

NOTE:

ELECTRICAL - MECHANICAL INSTRUMENTATION
2101 N. ANDREWS AVE., SUITE 100 FORT LAUDERDALE, FLORIDA 33311 PHONE: (954) 584-3111 FAX: (954) 564-3040



RECORD DRAWING

M/R DWG. NO. 41-42-23-03

SHEET No. E-4

PROJECT No.

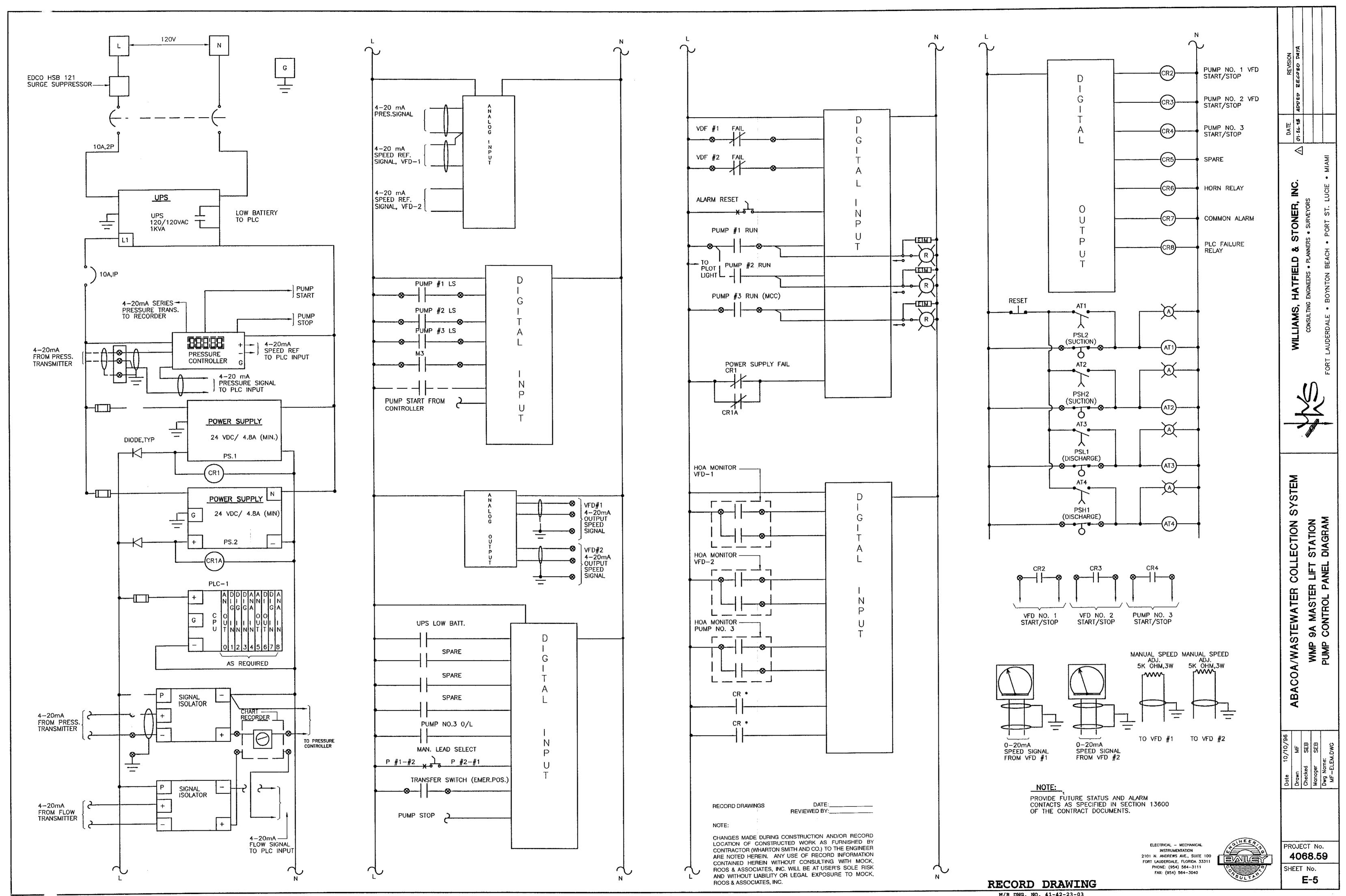
4068.59

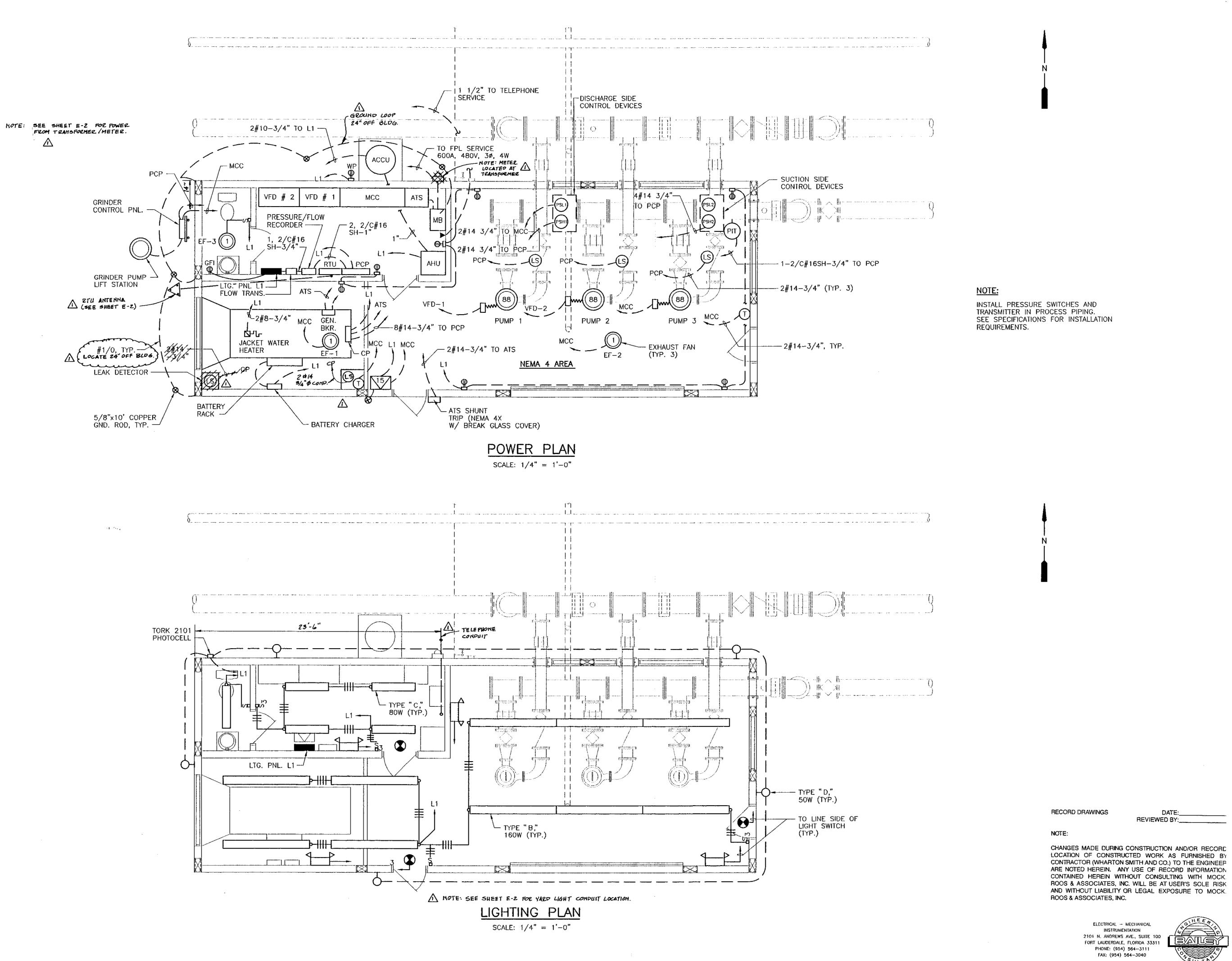
SYSTEM

COLLECTION

ABACOA/WASTEWATER

WMP 9A MASTER LIFT STATION ELEMENTARY CONTROL DIAGRAMS





ROJECT No. 4068.59 SHEET No.

E-6

SYSTI

ABACOA/WASTEWATER

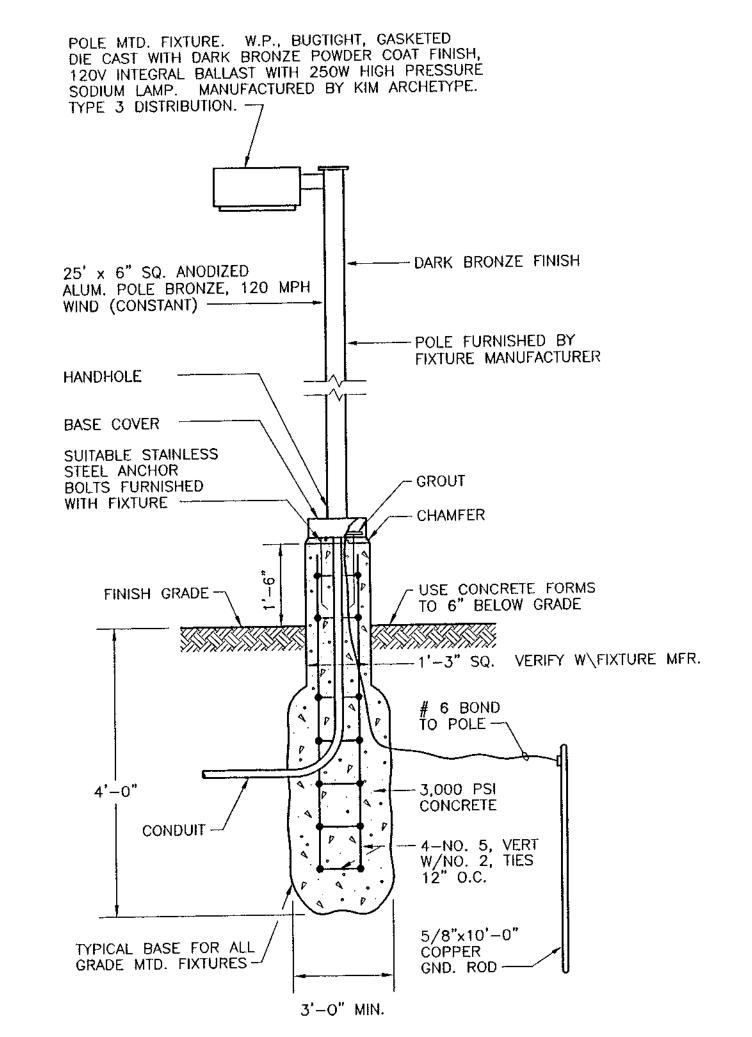
COLLECTION (
LIFT STATION
L PLANS

9A MASTER L ELECTRICAL

REVIEWED BY:

		LIGHTING FIXTURE SCHEDULE		
TYPE	WATT	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
A	250	SEE POLE MOUNTED FIXTURE DETAIL, THIS SHEET		
В	160	8'-0" LONG, VAPOR-TIGHT, GASKETED FLUORESCENT FIXTURE W/4-40 WATT R.S. LAMPS, NON-CORROSIVE NON-METALLIC HOUSING, HIGH IMPACT ACRYLIC LENS SUITABLE FOR WET LOCATIONS, FULLY ENCLOSED WIRING, 120V, ESB.	COLUMBIA HOLOPHANE DAY-BRITE	LUN240-8-WL 7200812H0DR8P18 VR28W120
С	80	4-0" LONG, VAPOR-TIGHT, GASKETED FIXTURE W/2-40 WATT R.S. FLUORESCENT LAMPS, NON-CORROSIVE NON-METALLIC HOUSING, HIGH IMPACT ACRYLIC LENS. SUITABLE FOR WET LOCATIONS. FULLY ENCLOSED WIRING, 120V, ESB.	H.E. WILLIAMS HOLOPHANE DAY—BRITE	8622-A 7200412W5DR4P14 VR2-4W-120
D	50	WALL MOUNTED OUTDOOR FIXTURE W/50 WATT H.P.S. LAMP AND 120V LOW LOSS BALLAST. GASKETED, DIE-CAST ALUMINUM HOUSING, PRISMATIC REFRACTOR, PHOTOCELL CONTROL, ALUMINUM BACKPLATE, SHARP CUTOFF, TYPE III DISTRIBUTION.	GENERAL ELECTRIC HOLOPHANE EMCO LIGHTING	W1LG05S1APECITLASN3I WP2A050HP12BZP STS-50S-120-DB-P0
(EXIT SIGN W/CAST ALUMINUM HOUSING & ALUMINUM STENCIL FACE, BLACK BAKED ENAMEL FINISH, SEALED NICKEL CADMIUM BATTERY, SELF CONTAINED AUTO-CHARGING, WALL OR CEILING MOUNTED AS REQUIRED. 120V-AC, 12V-DC.	EMERGI-LITE HOLOPHANE	TPXL-1R/TPXL-2F HW1-LAIIR11
1		EMERGENCY LIGHTING UNIT, SELF CONTAINED AUTO-CHARGING BATTERY BACK-UP W/TEST SWITCH & PILOT LIGHT, SEALED NICKEL CADMIUM BATTERY, (2) EF-18 HEADS W/9 WATT HIT LAMP PER HEAD. 120V-AC, 12V-DC.	EMERGI-LITE HOLOPHANE	12JSC36~2(1E) EH~12-2A

PANEL: L	.1 BUS: 225A W/50A MB	VOLTAC	E: 120/20	08V, 3ø, 4W
MOUNTING	G: SURFACE POLES: 42			
OCATION	: ELECTRICAL ROOM REMA	RKS:		
CIR. NO.	DESCRIPTION	TRIP	POLES	REMARKS
1-4	RECEPTACLES	20	1	
5-8	LIGHTING	20	1	
9	BATTERY CHARGER	20	1	
10	LEAK DETECTION PANEL	20	1	
11,13	JACKET WATER HEATER	30	2	
12	EXHAUST FAN	20	1	
14-18	INSTRUMENTATION	20	1	
19,20	METER VAULT	20	1	
21,23	ACCU	30	2	
22,24	AHU	20	2	
25-42	SPARE	20	1	



POLE MOUNTED FIXTURE DETAIL

N.T.S.

RECORD DRAWINGS

DATE:____ REVIEWED BY:____

NOTE:

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RECORD DRAWING M/R DWG. NO. 41-42-23-03

WMP 9A NASTER LIFT STATION LIGHTING FIXTURE SCHEDULE & DETAILS COLLECTION

WILLIAMS, HATFIELD CONSULTING ENGINEERS • PLA

ABACOA/WASTEWATER

PROJECT No. 4068.59 SHEET No.

E-7

NEMA 4 AREA SUMP PUMP (STORED IN P.S.) 100W INCANDESCENT LIGHTING FIXTURE - SIGNAL CABLES TO FIT IN ELECTRIC ROOM-1" GRS MCPHILBEN "43-44VTC" OR EQUAL TO L1

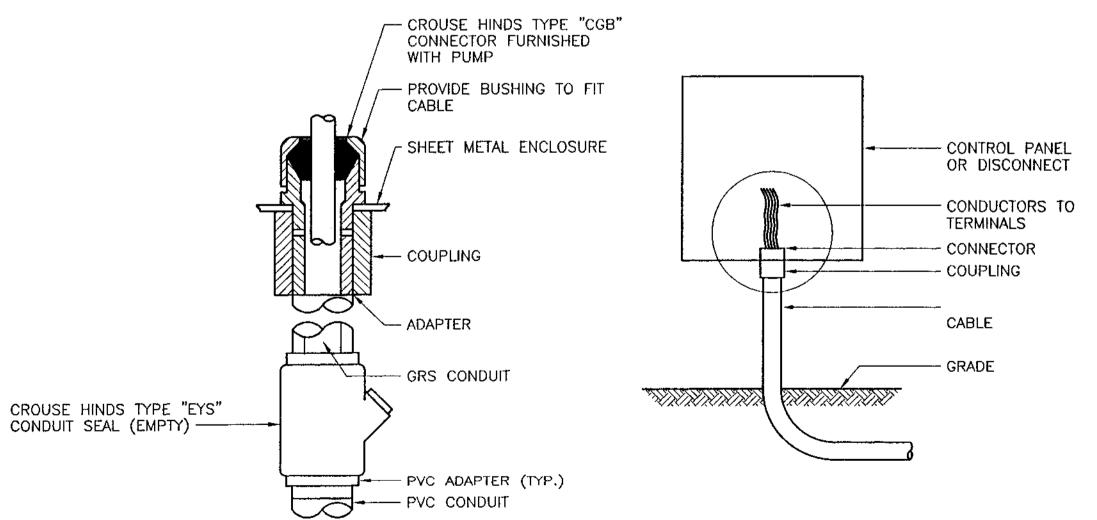
FLOW METER VAULT

N.T.S.

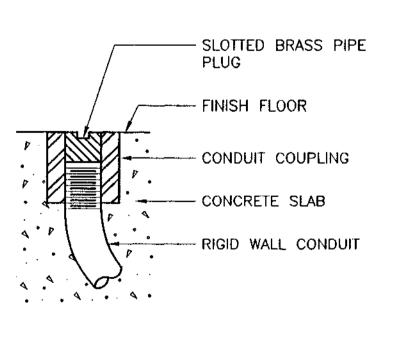
- CONDUIT CLAMP SUPPORT FROM BUILDING STRUCTURE TRAPEZE ASSEMBLY WALKWAY AND WALL MOUNTED - 1-1/2" x 1-1/2" CHANNEL (SEE SPECS)

CONDUIT PIPE STRAP MOUNTING DETAILS

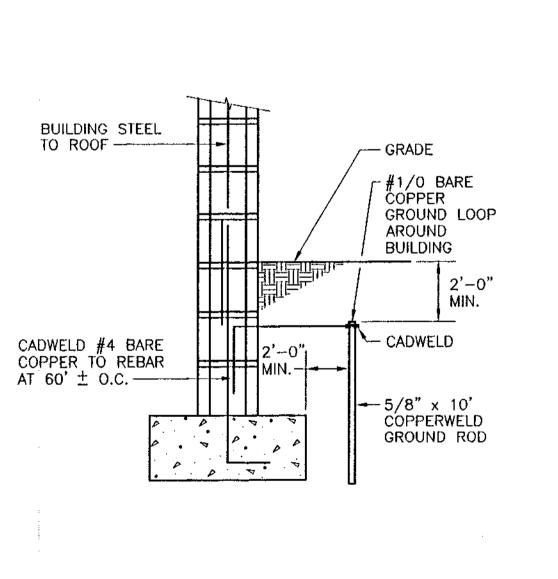
TYPICAL DISCONNECT AND CONTROL PANEL MOUNTING DETAIL



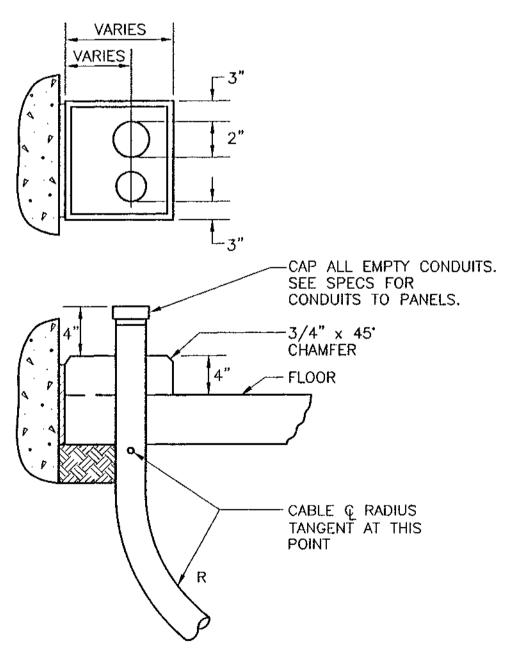




DETAIL OF CONDUIT TERMINATION STUB OUT



BUILDING STRUCTURE **BONDING**



TYPICAL CONDUIT THRU SLAB

RECORD DRAWINGS REVIEWED BY:___

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RECORD DRAWING

4068.59 SHEET No. E-8

PROJECT No.

DATE OI. 12. 18

STONER,

HATFIELD

WILLIAMS,

SYST

COLLECTION

ABACOA/WASTEWATER

WMP

9A MASTER LIFT STATION ELECTRICAL DETAILS

ABBREVIATIONS

Α	AIR	GS	GALVANIZED STEEL
ACC	AIR COOLED CONDENSING UNIT	GPM	GALLONS PER MINUTE
AHU	AIR HANDLING UNIT	HP	HORSEPOWER
ALUM	ALUMINUM	н₩	HOT WATER
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING	LD	LINEAR DIFFUSER
70111010	AND AIR-CONDITIONING ENGINEERS	NTS	NOT TO SCALE
BDD	BACKDRAFT DAMPER	OA	OUTSIDE AIR
BS	BIRDSCREEN	PCD	PERFORATED CEILING DIFFUSER
BTU	BRITISH THEF UNITS	PAC	PACKAGED AIR CONDITIONING UNIT
CFM	CUBIC FEET PER MINUTE	PSI	POUNDS PER SQUARE INCH
CD	CEILING DIFFUSER	PVC	POLYVINYL CHLORIDE
COND	CONDENSATE	RA	RETURN AIR
DB	DRY BULB	RG	RETURN GRILLE
DG	DOOR GRILLE	REF	REFRIGERANT
DN	DOWN	SEER	SEASONAL ENERGY EFFICIENCY RATIO
DS	DISCONNECT SWITCH	SP	STATIC PRESSURE
DIA	DIAMETER	SS	STAINLESS STEEL
EA	EACH	SR	SUPPLY REGISTER
EAG	EXHAUST AIR GRILLE	SMACNA	SHEET METAL AND AIR CONDITIONING
EDH	ELECTRIC DUCT HEATER		CONTRACTORS NATIONAL ASSOCIATION
EUH	ELECTRIC UNIT HEATER	TG	TRANSFER GRILLE
EER	ENERGY EFFICIENCY RATIO	TYP	TYPICAL
EF	EXHAUST FAN	UH	UNIT HEATER
ER	EXHAUST REGISTER	UL	UNDERWRITERS LABORATORY
FD	FIRE DAMPER	WB	WET BULB
FRI	FIBERGLASS REINFORCED PLASTIC	WG	WATER GAUGE
FT	FEET		
		H	

		·			AIR	CO	OLE	D C	ONE	EN	SIN	Gl	JNIT SC	HED	ULE			
ITEM	NO.		MATCH	SYSTEM CA	PACITY	PIP	ING		CONDE	NSER			COMF	RESSOR	 		REMARKS	WEATHERKING
NO.	REQ'D	LOCATION	WITH	BTUH	SEER	SUCT.	LIQ.	OSA F	CFM	ROWS	RLA	NO.	TYPE	RLA	VOLT	PHASE		MODEL
ACCU1	1	ELECTRICAL ROOM	AHU1	35,600	13.1	7/8	3/8	95	3100	2	1.2	1	HERMETIC	18.0	208	1	SEE NOTE A BELOW	WANLA-036JA
		,													<u> </u>			
<u></u>			<u></u> -	<u></u>														

NOTE A: PROVIDE OPTIONAL LOW AMBIENT SWITCH, FACTORY LOW PRESSURE SWITCH, AND LIQUID LINE FILTER-DRIER.

							AIR	1AH	VDLIN(3 UN	IIT S	СНЕ	EDU	LE						
ITEM NO.	NO. REQ'D	AREA SERVED	SHEET NO.	ENTERI DB	NG AIR WB	LEAVIN DB	COIL	DATA	SENSIBLE MBH		CFM		FAN	DAT	A	VOLT PHASE	FILTE TYPE	RS SIZE NO.	REMARKS	WEATHERKING MODEL
AHU-1	1	MASTER LIFT STA. ELECTRICAL ROOM	H-2	80	67			35.6	26.0		1250		T		DIRECT		_		SEE NOTE A BELOW	AHMA-13
							:													

NOTE A: PROVIDE HEAVY DUTY CORROSION RESISTANT SINGLE STAGE COOLING ONLY THERMOSTAT WITH INTEGRAL LOCKING COVER.

	 	ANTE-SANS		EX	HAU	ST F	AN S	SCHE	DUL	E						
ITEM NO.	NO. REQ'D	AREA SERVED	SHEET NO.	CFM	S.P.	SET	TYPE WHEEL	DRIVE	H.P.	VOLT PHASE	FAN RPM	MAX SONE VALUE	GREENHECK MODEL NO.	REMARKS	CONTROL	
EF~1,2	2	PUMP ROOM MASTER LIFT STA.	H-2	4000	0.5"	ROOF	CENT.	BELT	1	460 3ø	514	9.3	GB-240-10	BS,T,EC,SRC,TE,DS	T or WS	
EF3	1	TOILET MASTER LIFT STA.	H-2	50	0.375"	WALL	CENT.	DIRECT	40 W	115 1ø	1500	3.0	SP-6	WC	LIGHT SWITCH	_
									ļ							-
									<u> </u>							

= ALUMINUM BIRD SCREEN

= LINE VOLTAGE THERMOSTAT - HONEYWELL T631

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TONER,

SURVEYORS

S

Ö

= WALL SWITCH OR MCC HOA SWITCH

= HERESITE AIR DRIED EPOXY PHENOLIC

FINISH ON FAN & ACCESSORIES = WALL CAP FOR EXTERIOR WALL OPENING

= TEFC MOTOR, SEE DIVISION 16 FOR ADDITIONAL REQUIREMENTS.

= NEMA 4X STAINLESS STEEL

RC = ALUMINUM CONSTRUCTION SLANT ROOF CURB

DISCONNECT SWITCH

	AIR DISTRI	BUTION [EVICE	SCHED	ULE	
SYMBOL	DESCRIPTION	MODEL	FRAME TYPE	MATERIAL	FINISH	REMARKS
SR	SUPPLY REGISTER DOUBLE DEFLECTION	METAL*AIRE VH	PLASTER	ALUMINUM	OFF-WHITE ENAMEL	
RG	RETURN GRILLE LOUVERED FILTER BACK	METAL*AIRE RH-F	PLASTER	ALUMINUM	OFF-WHITE ENAMEL	1" THICK FARR 30/30 FILTER
ER	EXHAUST REGISTER 45' CURVED VANE	METAL*AIRE RHD	PLASTER	ALUMINUM	OFF-WHITE ENAMEL	OPPOSED BLAD DAMPER
CD	MANUAL CONTROL DAMPER	RUSKIN MD-35	CHANNEL	GALVANIZED	MILL FINISH	ADJ. LOCKING QUADRANT

RECORD DRAWINGS

REVIEWED BY:__

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> FORT LAUDERDALE, FLORIDA 33311 PHONE: (954) 564-3111 FAX: (954) 564-3040

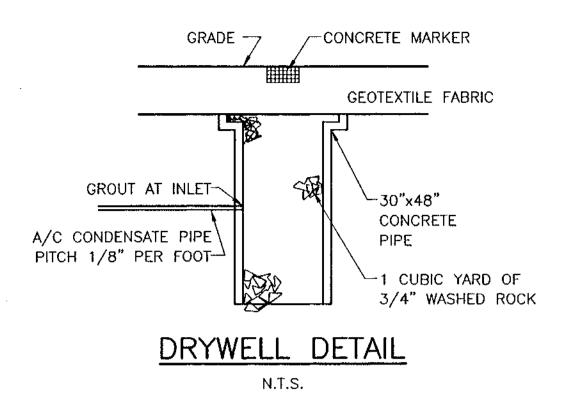
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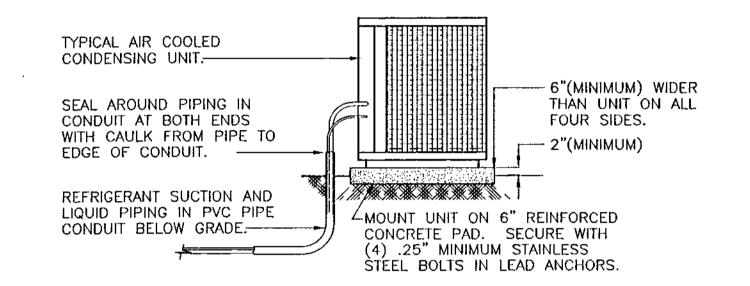
WMP 9A MASTER LIFT STATION SYMBOLS, ABBREVIATIONS, & SCHEDUL

HVAC

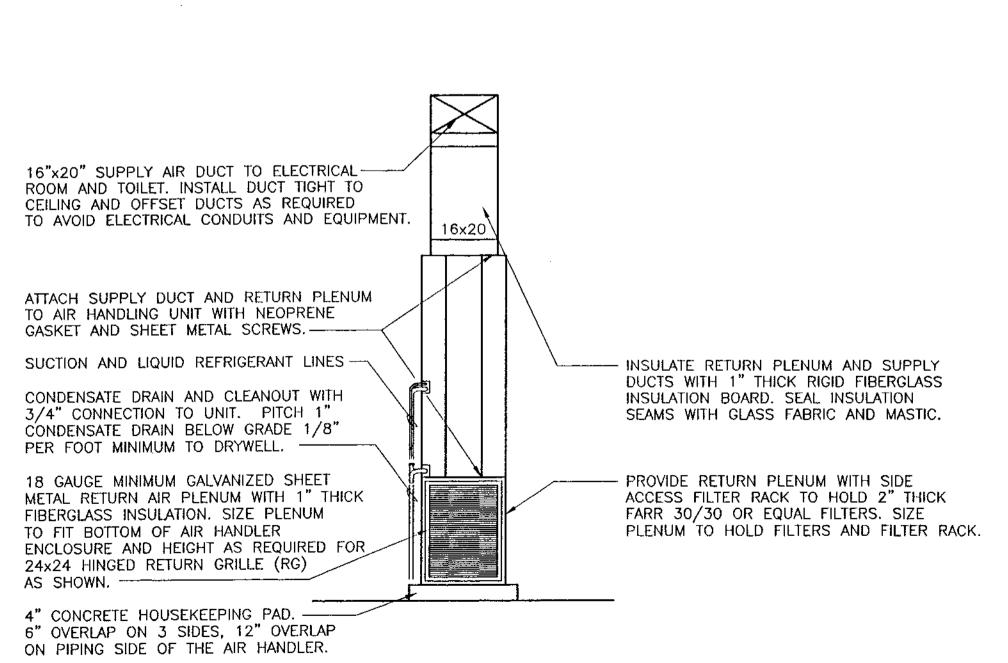
COLLECTION

ABACOA/WASTEWATER



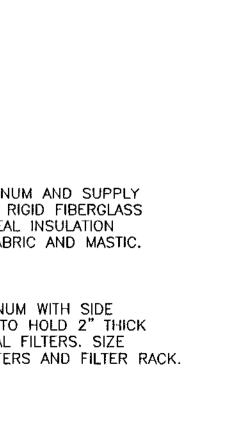


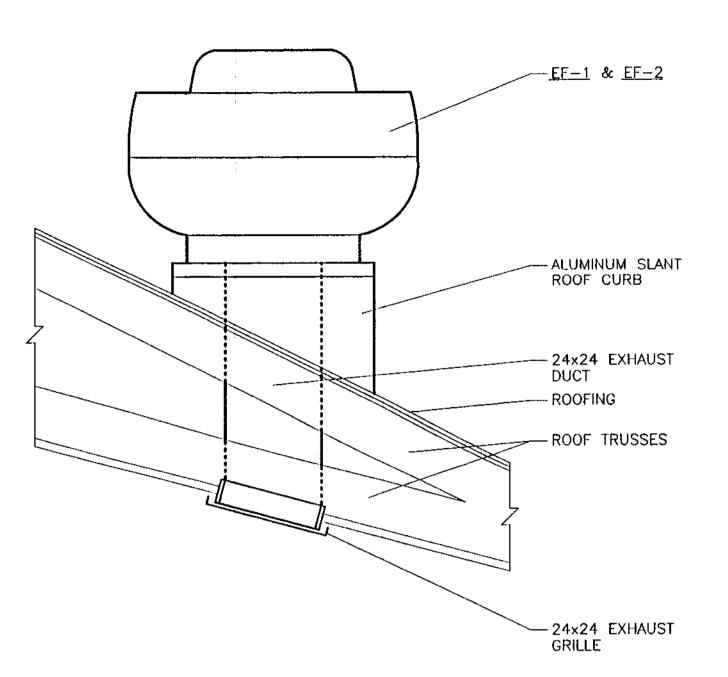
BELOW GRADE REFRIGERANT PIPING DETAIL



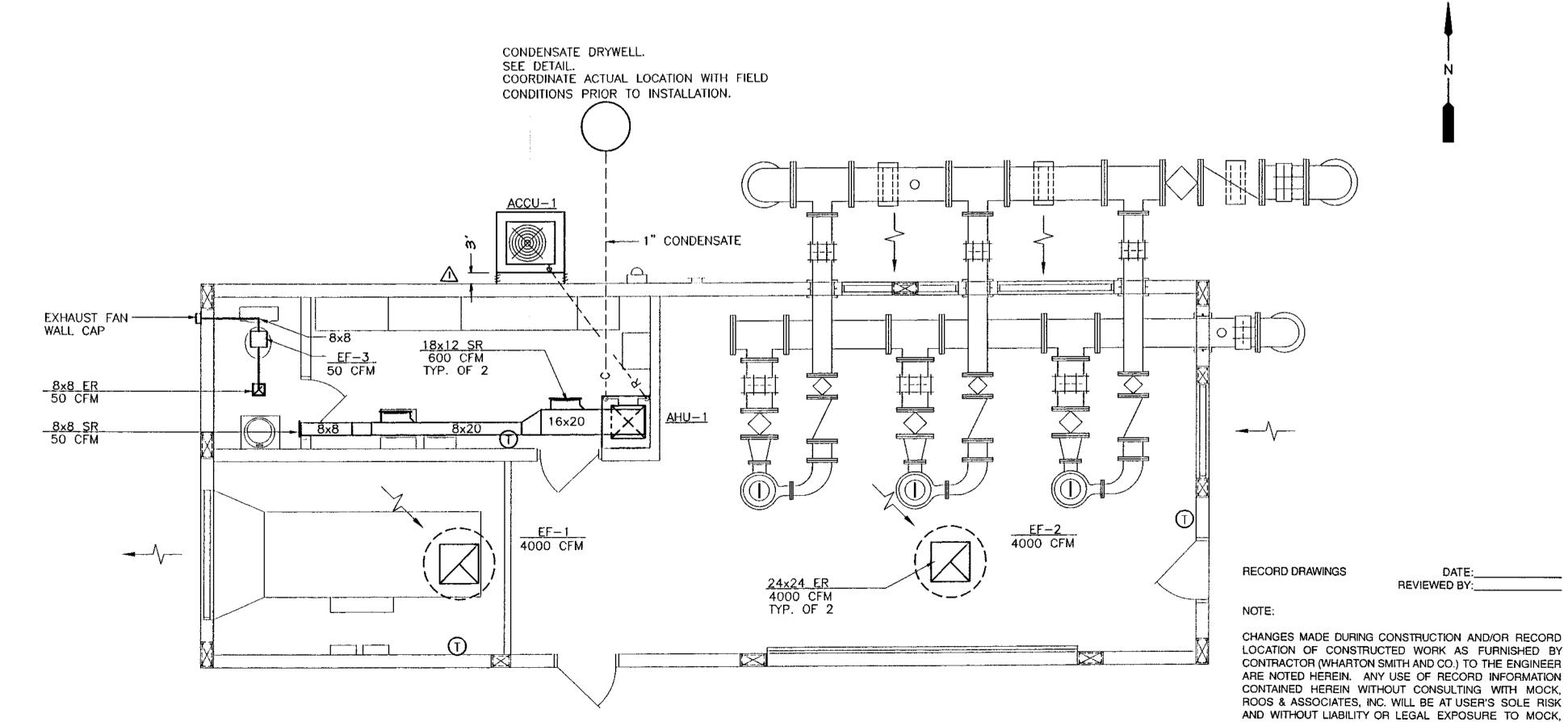
AHU-1 DETAIL

N.T.S.





ROOF FAN MOUNTING DETAIL N.T.S.



HVAC PLAN

SCALE: 1/4"=1'-0"

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ELECTRICAL - MECHANICAL

INSTRUMENTATION

2101 N. ANDREWS AVE., SUITE 100

ROOS & ASSOCIATES, INC.

RECORD DRAWING M/R DWG. NO. 41-42-23-03

PROJECT No. 4068.59 SHEET No.

COLLECTION

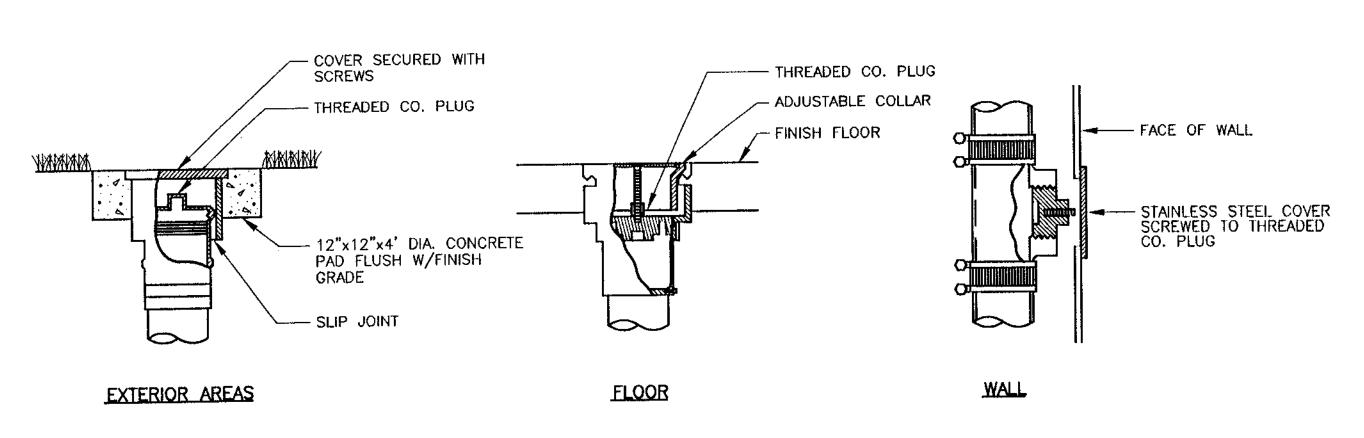
ABACOA/WASTEWATER

WMP 9A HVAC

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WATER CLOSET TANK TYPE INTEGRAL VITREOUS CHINA TANK, CHROME PLATED SUPPLY VALVE, EXTRA HEAVY DOTT WHITE PLASTIC SEAT; BENEKE OR EQUAL, BOLT CAPS. LAVATORY LAVATORY MODEL 4869.020 OR CURRENT MODEL ENAMELED CAST IRON LAVATORY, 20"x18"; DELTA NOTE OF TANGET WITH 5 CPM FLOW CONTROL 1 1/4" P-TRAP CHROME PLATED BRASS.	HEM NO.	ITEM	DESCRIPTION (AMERICAN STANDARD OR AS NOTED)
LAVATORY MODEL 4869.020 OR CURRENT MODEL ENAMELED CAST IRON LAVATORY, 20"x18"; DELTA	WCT		WHITE PLASTIC SEAT; BENEKE OR EQUAL, BOLT CAPS.
WALL MOUNTED AND 3/8" CHROME PLATED BRASS ANGLE STOPS, ZURN WALL SUPPORT.	LW	LAVATORY WALL MOUNTED	MODEL 4869.020 OR CURRENT MODEL ENAMELED CAST IRON LAVATORY, 20"x18"; DELTA 523 HDF FAUCET WITH .5 GPM FLOW CONTROL, 1 1/4" P-TRAP CHROME PLATED BRASS, AND 3/8" CHROME PLATED BRASS ANGLE STOPS, ZURN WALL SUPPORT.

EM NO.	ITEM	DESCRIPTION
FD	FLOOR DRAIN	ZURN ZN-415 COATED CAST IRON FLOOR DRAIN WITH NICKEL BRONZE ROUND STRAINER, TRAP PRIMER CONNECTION.
ECO	EXTERIOR CLEANOUT	PROVIDE CLEANOUT AS DETAILED IN FCO ABOVE, ENCASE IN CONCRETE PAD AT FINISHED GRADE, SEE DETAIL.
FCO	FLOOR CLEANOUT	ZURN ZN-1400 SERIES COATED CAST IRON CLEANOUT, ROUND NICKEL-BRONZE ADJUSTABLE TOP, GASKETED COVER, BRONZE PLUG, TOP TO MATCH FLOOR FINISH.
wco	WALL CLEANOUT	ZURN Z-1460-8 BRONZE PLUG AND STAINLESS STEEL ACCESS PLATE. PROVIDE LINE TEE FOR INSTALLATION OF WALL CLEANOUT.
TP	TRAP PRIMER	ZURN Z-1022 TRAP PRIMER. PROVIDE FOR EACH FLOOR DRAIN SHOWN WITH PRIMER CONNECTION.
нв	HOSE BIBB	CHICAGO 593 CHROME PLATED HOSE BIBB WITH INTEGRAL VACUUM BREAKER-3/4" HOSE CONNECTION.



POLYVINYL CHLORIDE

POTABLE WATER

PVC

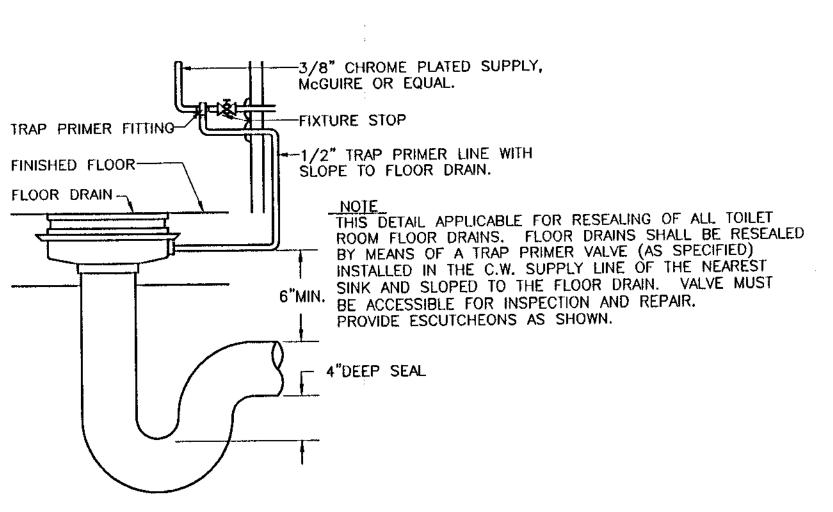
EER

EF

ENERGY EFFICIENCY RATIO

EXHAUST FAN

TYPICAL CLEAN-OUT DETAIL N.T.S.



CONDENSATE

TRAP PRIMER RESEAL DIAGRAM

N.T.S.

RECORD DRAWINGS

REVIEWED BY:

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RECORD DRAWING

M/R DWG. NO. 41-42-23-03

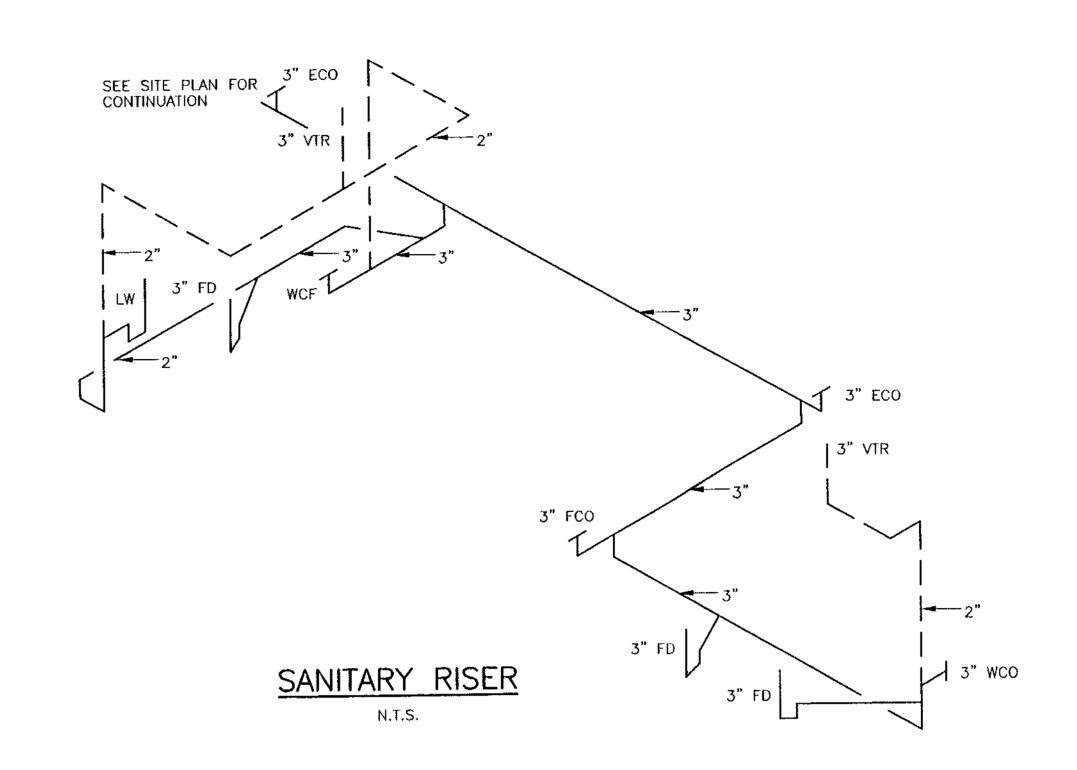
COLLECTION LIFT STATION SCHEDULES, WMP 9A MASTER I ABACOA/WASTEWATER SYMBOLS,

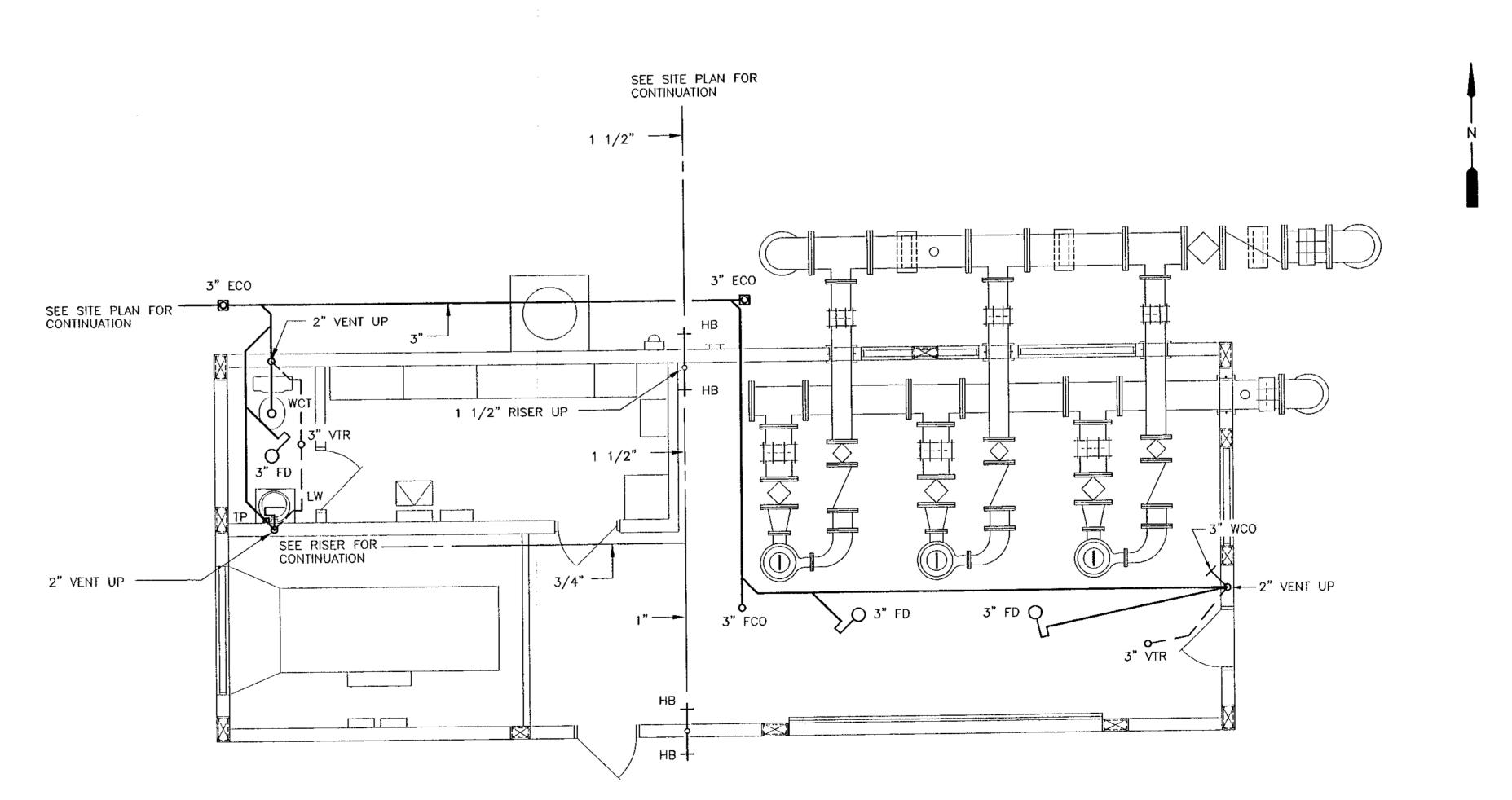
SYS

STONER,

PROJECT No. 4068.59 SHEET No. P-1

POTABLE RISER N.T.S.





RECORD DRAWINGS

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PLUMBING PLAN

SCALE: 1/4" = 1'-0"





RECORD DRAWING
M/R DWG. NO. 41-42-23-03

4068.59 SHEET No.

PROJECT No.

STONER, INC.

WILLIAMS, HATFIELD
CONSULTING ENGINFFRS - PLA

COLLECTION

/WASTEWATER

WMP 9A MASTER LIFT PLUMBING PLAN & I