# CITY OF JACKSONVILLE NOTES

## GENERAL

All construction shall be performed in accordance with the approved plans and comply with all standard city policies and practices. City approval is contingent upon any required state or federal permit approvals such as those from the Department of Environmental Protection or the St. Johns River Water Management District (SJRWMD).

## UTILITY WORK

Plan approval through Development Services does not include utilities. Proposed water, sewer or electric construction must be approved separately through the respective utility company. In most cases, this will be:

JEA
JEA Tower - 4th Floor
21 W. Church Street
Jacksonville, FL 32202
http://www.jea.com/business/services/devandbuild/developers.asp

## WORK WITHIN THE RIGHT-OF-WAY

CITY: Except for new subdivision infrastructure construction, all work performed within a City of Jacksonville right-of-way or easement requires a Right-of-way Permit. The contractor performing the proposed work must have a current Right-of-way Bond on file with Development Services. Right-of-way Permit applications are processed at:

Development Services Customer Service Counter
Edward Ball Building, 2nd Floor
214 N. Hogan St.
Jacksonville, FL 32202
(904) 255-8572
http://row.jaxdev.info/

STATE: All work performed within a state right-of-way requires a permit from the Florida Department of Transportation (FDOT). It is the developer's responsibility to obtain required FDOT permits or maintenance-of-traffic approvals for work within FDOT right-of-ways. The FDOT regional office can be contacted at (904) 360-5200 Any changes to the approved plans needed for FDOT approval must be submitted to Development Services as revisions.

Adjacent State Roads: _____

RAILROAD: Railroad companies may require special approvals or permits to work within their right-of-ways. It is the developer's responsibility to obtain permission from any railroad right-of-way owner before performing any work within their right-of-way.

## STORMWATER

Annual reports in compliance with the SJRWMD stormwater permits are required from the maintenance entity of all stormwater management facilities. Send copies of the reports to:

Engineering and Construction Management
Edward Ball Building, 10th Floor
214 N. Hogan St.
Jacksonville, FL 32202
http://www.coj.net/Departments/Public+Works/Engineering+and+Construction+Management/

The owner of any project one (1) acre or larger is required to provide a Notice of Intent (NOI) in accordance with criteria set forth in the city's NPDES permit within 48 hours of beginning construction. Send NOI and NOI fee to:

Florida Department of Environmental Protection
NPDES Stormwater Notices Center, Mail Station #2510
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(866) 336-6312
http://www.dep.state.fl.us/water/stormwater/npdes/

The contractor shall contact the Environmental Quality Division, Erosion and Sedimentation Control Section (ESC) to provide verification that applicable stormwater permits have been obtained and to schedule a pre-construction ESC site inspection:

Environmental Quality Division
407 North Laura Street, Third Floor
Jacksonville, FL, 32202
(904) 255-7222

## FIRE MARSHALL

Plan review and approval does not relieve the contractor of complying with all applicable State Fire Codes.

Underground mains and hydrants shall be installed, completed, and in service prior to construction work.

Underground contractor shall submit to the Fire Marshall for approval complete specs for all underground pipe and fittings relating to fire protection PRIOR to installation and inspection. Contractor shall include manufacturer's name and pipe ID along with contractor's state license number.

## LANDSCAPE

A Site Work Permit is required for this project.

☐ Tree Fund payment is due: _____ inches at $_____ = $_____

☐ Article 25 funds are due: _____ inches at $_____ = $_____

## TRAFFIC ENGINEERING

### TRAFFIC SIGNS

Metro Name (each) _____

Standard (each) _____

Stop/Yield (each) _____

Design (per plat) 1 per plat

Installation (per hour) 1 per 2 signs (rounded up)

_____ Streetlights Required

NOTE: Traffic sign costs change from time to time. Consult Attachment 8 of the Land Development Procedures Manual (http://ldpm.jaxdev.com/) for the current rates before paying for any sign installations.

No lane closures allowed from 7 a.m. till 9 a.m. and from 4 p.m. till 6 p.m.

# CONSTRUCTION DRAWINGS FOR 4881 TIMUQUANA ROAD WW PUMPING STATION UPGRADES

## PREPARED FOR:

JEA sm

Building Community sm

MAY 2019

JEA PROJECT NO.: 8003563

## VICINITY MAP

SCALE: 1" = 200'

cph — A Full Service A & E Firm
Architects, Engineers, Environmental, Landscape Architects, M / E / P, Planners, Structural, Surveyors, Traffic/Transportation
www.cphcorp.com
5200 Belfort Road, Suite 220 Jacksonville, FL 32256
Phone: 904.332.0999
Licenses:
Eng. C.O.A. No. 3215 Arch. Lic. No. AA2600926
Survey L.B. No. 7143 Landscape Lic. No. LC0000298

IFB BID NO.: XXX-XXX-21

BID DUE DATE: X-X-21

TIME OF RECEIPT: TBD

TIME OF OPENING: TBD

BID PLACE: 21 W. CHURCH STREET
TOWER LOBBY, SUITE 103
JACKSONVILLE, FLORIDA

This item has been electronically signed and sealed by Wade P. Olszewski P.E. on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

# PLAN APPROVAL

_____ Date _____ Development Services Division (Chief)

_____ Date _____ Review Group (Reviewer)

Plan approval is valid for five years after the initial approval date. Revisions made after the initial approval date do not extend this five-year time frame.

PLAN APPROVAL IS SUBJECT TO THE FOLLOWING NOTES AND CONDITIONS:

| | |
|---|---|
| **GENERAL** | |
| City Development Number | 4161.277 |
| Concurrency Application Number | N/A |
| Property Appraiser Number (RE #) | 102128-0010 |
| Zoning Designation | RLD-60 |
| Zoning Application(s) (if any) | N/A |
| PUD Ordinance Number | N/A |
| FIRM – Community – Panel | 12031 C0527 H |
| Flood Zones (Show in Plans) | AE |
| Base Flood Elev. (Show in Plans) | 4 |
| Vertical Datum Used for Project | NAVD '88 |
| JEA Availability Number | N/A |
| **SUBDIVISION** | |
| PSD Number | N/A |
| City or Private Inspection | N/A |
| Public or Private Roads | N/A |
| Subdivision ("911") Disk Provided? | N/A |
| **NON-SUBDIVISION** | |
| North American Industry Classification System (NAICS) | 221310 |
| Impervious Area (Sq. Ft.) | N/A |

| NO. | BY | DATE | REVISIONS |
|---|---|---|---|
| 6. | | | |
| 5. | | | |
| 4. | | | |
| 3. | | | |
| 2. | | | |
| 1. | | | |

DESIGN ENGINEER
WADE P. OLSZEWSKI, P.E.
FLORIDA REGISTRATION NO. 54068

DESIGNER: SAB
DRAWN BY: DLS
DATE: MAY 2019
CHECKED BY: WPO/CDB
DATE: MAY 2019

JEA sm Building Community sm

4881 TIMUQUANA ROAD
WW PUMPING STATION UPGRADES
CITY OF JACKSONVILLE COVER PAGE

PROJ. NO. J6609
DATE: MAY 2019
SCALE: NONE

NO. SHEETS IN SET: 1
SHEET NO. 1
DRAWING NO. G-01

BID REVIEW

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Images Attached = J:\J6609\Civil\DWG\Design\Xerox

Xrefs Attached=

## SURVEY AND LOCATE DATA:

1. ALL ELEVATIONS ARE BASED ON U.S.C.&G.S. DATUM AND SHOWN IN FEET.
2. ELEVATIONS ARE BASED ON N.A.V.D. 1988.
3. LOCATION OF EXISTING UTILITIES OBTAINED BY SOFT DIG LOCATES WHERE SHOWN ON PLANS, OR INCLUDED WITH BID SPECS.
4. EXISTING WATER AND SEWER LINES ARE SHOWN AS PER FIELD LOCATES AND AS-BUILT PLANS.
5. NO UNDERGROUND UTILITIES, FOUNDATIONS OR IMPROVEMENTS, IF ANY, HAVE BEEN LOCATED EXCEPT AS SHOWN.
6. ALL PIPE LENGTHS SHOWN ON PLAN AND PROFILES ARE FROM CENTER TO CENTER OF MANHOLES, CATCH BASINS, INLETS ETC. OR ALONG THE CENTER LINE OF WATER MAINS.
7. INVERT ELEVATIONS SHOWN ON DRAWINGS REFER TO THE CENTERLINE OF PIPE, UNLESS OTHERWISE INDICATED.
8. THE LOCATION OF ALL EXISTING SEWER AND WATER SERVICE LINES MAY NOT BE INDICATED ON THESE PLANS. THE LOCATION OF NEW SERVICES SHALL BE VERIFIED IN THE FIELD.
9. THE TWO SITE BENCHMARKS FOR THIS TOPOGRAPHIC SURVEY ARE DISPLAYED ON THE RESPECTIVE SURVEY FILE. THESE BENCHMARKS ARE BASED ON A CLOSED VERTICAL CONTROL LOOP HAVING AN ACTUAL ERROR OF CLOSURE OF 0.024' WHICH MEETS THE ALLOWABLE CLOSURE OF 0.033'. THIS FIELDWORK WAS PERFORMED USING A TOPCON LEVEL MODEL #AT-G4 AND REFERENCES THE FOLLOWING PUBLISHED BENCHMARKS AS ESTABLISHED BY THE NORTH AMERICAN VERTICAL DATUM 0F 1988 (NAVD '88) AND SAID ELEVATIONS ARE MATCHED TO VERTICAL CONTROL BENCHMARKS SUPPLIED BY FLORIDA DEPARTMENT OF TRANSPORTATION AS FOLLOWS:
   a) DESIGNATION # 7203012, CONCRETE MONUMENT STAMPED '720302 BM1' 160 FEET N OF TIMUQUANA RD ON E SIDE OF SR 15. ELEVATION = 7.656 (NAVD '88)
   b) DESIGNATION # PK NAIL AND DISK STAMPED 'PKD LB6508', IN CONCRETE CURB +/- 150' N OF GENOA AVE ELEVATION = 5.527 (NAVD '88)

## PERMIT REQUIREMENTS (NOT ALL INCLUSIVE):

1. CONTRACTOR TO OBTAIN ALL REQUIRED RIGHT-OF-WAY PERMITS.
2. CONTRACTOR SHALL NOT OPEN CUT STREETS IN THE PROJECT AREA UNLESS SPECIFICALLY SHOWN ON PLANS
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CONSUMPTIVE USE PERMIT (C.U.P.) THROUGH THE ST. JOHNS WATER MANAGEMENT DISTRICT SHOULD DEWATERING ACTIVITIES BE REQUIRED.
4. THE DEPARTMENT OF TRANSPORTATION, RAILROAD COMPANIES AND C.O.J. ARE TO BE NOTIFIED IN ADVANCE OF CONSTRUCTION PER THEIR RESPECTIVE PERMIT CONDITIONS.
5. ALL WORK SHALL BE IN ACCORDANCE WITH BID DOCUMENTS, JEA WATER AND SEWER STANDARDS, DETAILS AND MATERIALS MANUAL, REV. 4/01. AND CITY OF JACKSONVILLE STANDARD SPECIFICATIONS AND DETAILS AND ALL APPLICABLE STATE AND LOCAL REGULATIONS.
6. IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF THE PERMITTING AGENCY, DUCTILE IRON PIPE, FITTINGS AND SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED.
7. THE CONTRACTOR SHALL NOTIFY APPLICABLE UTILITY CONTACT PERSONNEL NOT LESS THAN ONE WEEK PRIOR TO CONSTRUCTION OF FACILITIES IN THEIR RESPECTIVE AREAS.
8. TREE PROTECTION SHALL BE IN ACCORDANCE WITH JACKSONVILLE ORDINANCE CODE 656 AND/OR AS DETAILED ON SPECIFIC PLAN SHEETS. NO TRIMMING OF OVERHANGING TREE LIMBS WILL BE ALLOWED. USE SMALLER EQUIPMENT IF NECESSARY.
9. THE CONTRACTOR SHALL LOCATE THE DRAINAGE INLET STRUCTURES IN THE PROJECT AREA AND ERECT SEDIMENTATION CONTROL DEVICES AS NECESSARY PER THE CITY OF JACKSONVILLE STORMWATER POLLUTION PREVENTION PLAN.
10. CONTRACTOR TO COORDINATE WORK WITH OTHER UTILITIES DURING CONSTRUCTION.

## ABBREVIATIONS:

| | |
|---|---|
| AC | ASBESTOS CEMENT |
| A.C. | AIR CONDITION |
| ARCH | ARCHITECTURAL |
| BL | BASE LINE |
| BFV | BUTTERFLY VALVE |
| B.M. | BENCH MARK |
| C.B. | CATCH BASIN |
| C.I. | CAST IRON |
| CIP | CAST IRON PIPE |
| CL | CENTER LINE |
| C.E.P. | CITY ELECTRIC POLE |
| CONC. | CONCRETE |
| CMU | CONCRETE MASONRY UNIT |
| CONST. | CONSTRUCTION |
| C.M.P. | CORRUGATED METAL PIPE |
| C.M.P.A. | CORRUGATED METAL PIPE ARCH |
| CULV. | CULVERT |
| C&G | CURB & GUTTER |
| C | CUT |
| D.B.I. | DITCH BOTTOM INVERT |
| DIA | DIAMETER |
| D.W. OR DR | DRIVEWAY |
| D.I. | DUCTILE IRON |
| DIP | DUCTILE IRON PIPE |
| E.O.P. | EDGE OF PAVEMENT |
| E | EASTING/AST |
| EL | ELEVATION |
| ELEV. | ELEVATION |
| ENG | ENGINEER |
| ERCP | ELLIPTICAL REINFORCED CONC. PIPE |
| EXP. JT. | EXPANSION JOINT |
| F | FILL |
| F.H. | FIRE HYDRANT |
| FLG | FLANGE |
| FL | FLORIDA |
| FL | FLOW LINE |
| FM | FORCE MAIN |
| GPM | GALLON PER MINUTE |
| GALV./GLV | GALVANIZED |
| G | GAS LINE |
| GV | GATE VALVE |
| GSR | GROUND STORAGE RESERVOIR |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE |
| H.W. | HEAD WALL |
| H.C. | HIGH CURB |
| HSP | HIGH SERVICE PUMP |
| HP | HORSE POWER |
| ID | IDENTIFICATION |
| IFB | ISSUED FOR BID |
| INJ. | INJECTION |

| | |
|---|---|
| INT. | INTERSECTION |
| INV. | INVERT |
| I.P. | IRON PIPE |
| J.W.W. | JACKSONVILLE WATER WORKS |
| JB | JUNCTION BOX |
| LT. | LEFT |
| MAT'L | MATERIAL |
| MB | MAIL BOX |
| MGO | MILLION GALLONS PER DAY |
| M.H. | MANHOLE |
| MJ | MECHANICAL JOINT |
| MIN | MINIMUM |
| N | NORTHING/NORTH |
| NaOCL | SODIUM HYPOCHLORIDE |
| N/A | NOT APPLICABLE |
| NO. | NUMBER |
| N.T.S. | NOT TO SCALE |
| O.E. | OVERHEAD ELECTRIC |
| O.T. | OVERHEAD TELEPHONE |
| PFD | PROCESS FLOW DIAGRAM |
| P.R.M. | PERMANENT REFERENCE MONUMENT |
| P.V.C. | POLYVINYL CHLORIDE |
| PP | POWER POLE |
| PSI | POUNDS PER SQUARE INCH |
| PSIG | POUNDS PER SQUARE INCH GAUGE |
| r | RADIUS |
| R | RATE |
| R.C.P. | REINFORCED CONCRETE PIPE |
| RT | RIGHT |
| R/W | RIGHT OF WAY |
| R.D. | ROOF DRAIN |
| S/W | SIDE WALK |
| S.B.T. | SOUTHERN BELL TELEPHONE |
| SST | STAINLESS STEEL |
| STA | STATION |
| TC | TOP OF CURVE |
| TYP | TYPICAL |
| U.G.E. | UNDERGROUND ELECTRIC |
| U.G.T. | UNDERGROUND TELEPHONE |
| U.S.C. & G.S. | UNITED STATES COASTAL & GEODETIC SURVEY |
| V | VALVE |
| V.C. | VITRIFIED CLAY |
| W | WEST |
| WM | WATER METER |
| W.V. | WATER VALVE |
| WLP | WOOD LIGHT POLE |
| WPP | WOOD POWER POLE |
| WTP | WOOD TELEPHONE POLE/WATER TREATMENT PLANT |

## RESTORATION NOTES:

1. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, TO REFERENCE AND RESTORE PROPERTY CORNERS AND LANDMARKS WHICH MAY BE DISTURBED BY CONSTRUCTION, KNOWN CORNER LOCATIONS ARE AVAILABLE FROM THE CITY OF JACKSONVILLE ENGINEERING DIVISION.
2. THE CONTRACTOR SHALL RESTORE/REPLACE ALL CULVERTS, HEADWALLS AND STORM DRAIN INLETS REMOVED OR DISTURBED BY THE CONSTRUCTION OPERATION.
3. TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION IN ACCORDANCE WITH CITY OF JACKSONVILLE/FDOT STANDARD SPECIFICATIONS.
4. SIDEWALKS, DRIVEWAYS AND CURBING DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH JACKSONVILLE STANDARD SPECIFICATIONS. SIDEWALKS REMOVED AND REPLACED IN CURB AND GUTTER AREAS AT INTERSECTIONS SHALL HAVE HANDICAP RAMPS INSTALLED. DRIVEWAYS AND SIDEWALKS SHALL BE SAWCUT ALONG THE RIGHT-OF-WAY LINE OR NEAREST JOINT AND REMOVED AND REPLACED TO THE EDGE OF STREET.
5. GRASS SOD SHALL BE FURNISHED AND PLACED IN THE AREAS DISTURBED OR DAMAGED BY THE CONSTRUCTION OPERATION.
6. ALL PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH THE CITY OF JACKSONVILLE/FDOT STANDARD DETAILS AND SPECIFICATIONS LATEST EDITION.
7. UNLESS OTHERWISE NOTED, REMOVE AND REPLACE EXISTING PAVEMENT AS PER C.O.J. CASE X (10) PAVEMENT REPLACEMENT DETAIL.
8. CONTRACTOR MUST MAINTAIN AND PRESERVE NEWLY GRADED AREAS AND REPAIR AREAS WHERE SETTLING AND EROSION HAVE OCCURRED.

## EXISTING UTILITY PROTECTION:

1. IN ORDER TO REDUCE THE DISRUPTION AND COST OF UTILITY DAMAGES OCCURRING IN THE DUVAL COUNTY RIGHT-OF-WAY AND EASEMENTS, THE CONTRACTOR SHALL PREVENT DAMAGES TO EXISTING UTILITIES CAUSED BY HIS WORK THROUGH FIELD VERIFICATION OF THE LOCATION OF THE EXISTING UTILITIES. IN THE CASE OF OPEN EXCAVATION, VERIFICATION MAY BE PERFORMED DURING THE CONTRACTORS WORK. IN THE CASE OF DIRECTIONAL DRILLING, VERIFICATION SHALL TAKE PLACE PRIOR TO MOBILIZATION OF THE DRILLING EQUIPMENT.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES AS NEEDED TO AVOID CONTACT. EXISTING UTILITIES SHALL BE EXPOSED USING DETECTION EQUIPMENT OR OTHER ACCEPTABLE MEANS. SUCH METHODS MAY INCLUDE BUT SHALL NOT BE LIMITED TO "SOFT DIG" EQUIPMENT AND GROUND PENETRATING RADAR (GPR). THE EXCAVATOR SHALL BE HELD LIABLE FOR DAMAGES CAUSED TO THE CITY'S/JEA'S INFRASTRUCTURE AND THE EXISTING FACILITIES OF OTHER UTILITY COMPANIES.
3. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW GROUND SURFACE. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

## UTILITY CONTACTS:

A. AT&T ~ GENERAL NUMBER — 904-519-2529
B. AT&T ~ ADAM DUGAN ~ NORTH DISTRICT — 904-781-0741
C. AT&T ~ BILL LAKE ~ SOUTH DISTRICT — 904-303-8754
D. CITY OF JACKSONVILLE ~ PUBLIC WORKS DEPT. — 904-255-8786
E. CITY OF JACKSONVILLE ~ TRAFFIC OPERATIONS — 904-255-8786
F. FLORIDA DEPT. OF TRANSPORTATION — 904-360-5200
G. JEA ~ WATER COLLECTION & DISTRIBUTION ~ DAVID ASHLEY — 904-665-8484
H. JEA ~ SEWER COLLECTION & DISTRIBUTION ~ BILL CLENDENING — 904-665-6052
I. JEA ~ GENERAL INFORMATION — 904-665-6000
J. JEA ~ PROJECT OUTREACH — 904-665-7500
K. JEA ~ POWER OUTAGES — 904-665-6000
L. JEA ~ SEWER PROBLEMS — 904-665-4802
M. JEA ~ WATER PROBLEMS — 904-665-4801
N. JEA ~ WATER & SEWER LOCATES — 904-665-8410

## GENERAL LEGEND

| | EXISTING | PROPOSED |
|---|---|---|
| RIGHT OF WAY LINE | | |
| CENTER LINE | | |
| LIMITS OF CONSTRUCTION | | L.O.C. |
| FENCE (HEIGHT & MAT'L. INDICATED) | 6' CHAIN LINK | 6' CHAIN LINK |
| DITCH OR SWALE | | |
| DRAIN PIPE | D D | D |
| CATCH BASIN | | |
| STORM DRAIN GRATE | | |
| STORM SEWER (SIZE & MAT'L. INDICATED) | | |
| STORM SEWER, REPLACEMENT (IN CASE 10 TRENCH) SIZE, MAT'L. INDICATED | | |
| CULVERT W/ENDWALLS (SIZE & MAT'L. INDICATED) | | |
| WATER MAIN SIZE | UW | W |
| WATER MAIN (IN CASE 10 TRENCH) SIZE | UW | W |
| GRAVITY SEWER SIZE, TYPE INDICATED | S 8" S PVC | S 8" PVC |
| SEWER FORCE MAIN SIZE, TYPE INDICATED | FM 10" PVC | FM 10" PVC |
| LINE VALVE | | |
| CHECK VALVE | | |
| FIRE HYDRANT | | |
| VALVE (WATER) | WV | |
| END CAP | | |
| PLUG (AT END OF LINE) | | |
| VALVE (TYPE INDICATED) | | |
| REDUCER | | |
| SPOT ELEVATION | × 100.00 | |
| MANHOLE - TYPE (IF INDICATED) E - ELECTRIC S - SANITARY D - STORM T - TELEPHONE | D | |
| CLEAN OUT | CO | |
| SPRINKLER HEAD | WS | |
| TEMPORARY SAMPLING TAP POINT (BACTERIOLOGICAL SAMPLING POINT) | | SAMPLE TAP NO. TAP NO. |
| WATER STUB OUT W/ VAULT | | |

## UTILITY SYMBOLS

| | |
|---|---|
| ELECTRIC POLE OR S.B.T. POLE (WOOD) | |
| WOOD POWER POLE | |
| ELECTRIC POLE OR S.B.T. POLE (CONC.) | |
| CONCRETE POWER POLE | |
| GUY WIRE | |
| ADJOINER PROPERTY LINES | |
| BOUNDARY LINE | |
| BROKEN LINE | |
| BURIED CABLE | UC |
| BURIED CABLE TELEVISION | UC TV |
| BURIED ELECTRIC | UE |
| BURIED FIBER OPTICS | UFO |
| BURIED GAS | UG |
| BURIED RECLAIMED WATER LINE | URW |
| BURIED SANITARY SEWER FORCE MAIN LINE | FM |
| BURIED TELEPHONE LINE | UT |
| BURIED WATER LINES | UW |
| EASEMENT LINES (EXISTING) | |
| OVERHEAD TRAFFIC LINES | OTL |
| OVERHEAD UTILITY LINES | OHU |
| UNDERGROUND CABLE (TYPE UNDETERMINED) | UKN |
| RIGHT-OF-WAY LINES | |
| SECTION LINES | |
| WETLAND LINE | |
| SILT FENCE - GOPHER TORTOISE BARRIER | SF |
| FOUND CONCRETE MONUMENT (AS NOTED) | |
| FOUND IRON PIPE (AS NOTED) | |
| FOUND IRON REBAR (AS NOTED) | |
| NAIL & DISC (AS NOTED) | |
| WATER METER | WM |
| WATER METER WITH TOUCHREAD | WM |
| TELEPHONE BOX | |
| CATV BOX | CTV |
| FIBER OPTIC RISER | UFO |
| GAS VALVE | GV |
| SOIL BORING (NUMBER INDICATED) | |
| SOFT DIG (NUMBER INDICATED) | |
| MAIL BOX | |
| SIGN - TYPE INDICATED | |
| WATER VALVE | WV |
| TREE REMOVAL | X |

PROPOSED

PROPOSED NEW ASPHALT PAVEMENT DRIVEWAY

## INSTALLATION NOTES:

1. CONTRACTOR TO REHABILITATE ALL MANHOLES ON PIPE BURST SEWERS VIA COATING/LINING PER JEA SPECIFICATION 446-2, UNLESS OTHERWISE NOTED ON THE PLANS.
2. CONTRACTOR TO RENEW, REHABILITATE, REPLACE OR REINSTALL AS APPLICABLE ALL SERVICE LATERALS TO R.O.W. LINE.
3. CONTRACTOR TO INSTALL SEWER SERVICE PIPING A MINIMUM OF 60 INCHES BELOW GRADE. WHERE NEW SANITARY SEWER MAIN IS LESS THAN 5 FEET DEEP, THE SEWER SERVICE PIPE SHALL BE INSTALLED AS DEEP AS POSSIBLE.
4. WHEN THE DISTANCE BETWEEN A POWER POLE AND THE TRENCH IS LESS THAN THE TRENCH DEPTH, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH JEA ELECTRICAL PERSONNEL TO SECURE POWER POLES. THE CONTACTS FOR JEA ARE AS FOLLOWS:
   - NORTHSIDE~EAST of US-1 MIKE CORBITT @ 665-7991 (mobile 662-0635)
   - NORTHSIDE~WEST of US-1 ANDY YEAGER @ 665-7998 (mobile 662-0622)
   - NORTHSIDE~BACKUP ALAN AINSLEY @ 665-7303 (mobile 662-6557)
   - SOUTHSIDE~SOUTH of BEACH BLVD. TOM KERNS @ 665-6847 (mobile 860-1687)
   - SOUTHSIDE~NORTH of BEACH BLVD. DERYL BASFORD @ 665-6855 (mobile 662-0616)
   - SOUTHSIDE~BACKUP EDDIE GALES @ 665-6855 (mobile 662-0616)

   A MINIMUM OF TWO (2) WORKING DAYS NOTICE IS REQUIRED FOR AN OUTSIDE MEETING WITH JEA ELECTRICAL TO DISCUSS THE REQUIRED WORK. ADDITIONAL TIME WILL BE REQUIRED BY JEA ELECTRICAL FOR ANY REQUIRED WORK TO BE ACCOMPLISHED.
5. ALL NEW STORM DRAIN PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.
6. THE DESIGN FOR THE PROJECT IS BASED UPON THE "OPEN-CUT" METHOD OF CONSTRUCTION. IF USING ALTERNATIVE MEANS OR METHODS, THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE STANDARDS FOR THAT MEANS OR METHOD.
7. THE CONTRACTOR SHALL MINIMIZE SERVICE INTERRUPTIONS AT SERVICE CONNECTIONS. THE MEANS AND METHODS SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. NO EXISTING ACTIVE SERVICE SHALL BE LEFT INTERRUPTED AT THE END OF THE WORK DAY.
8. CONTRACTOR SHALL PROVIDE ADDITIONAL CORPORATION STOPS FOR FILLING AND DRAINING PURPOSES DURING CONSTRUCTION AS NEEDED. CORPORATION STOPS ARE TO BE PLUGGED AND LEFT IN PLACE. INDICATE CORPORATION STOP LOCATIONS ON RECORD DRAWINGS (AS-BUILTS).
9. WATER AND SEWER SERVICES SHALL BE TRANSFERRED TO THE NEW MAIN UPON COMPLETION AND F.D.E.P./J.E.A. CERTIFICATION, AND PRIOR TO THE EXISTING MAINS BEING ABANDONED.
10. IF EXISTING VALVES ARE IN UNPAVED AREAS AND ARE TO BE TAKEN OUT OF SERVICE, THEY SHALL BE CLOSED AND THE VALVE BOX AND COVER SHALL BE REMOVED. IF THE VALVES ARE UNDER PAVED AREAS, THEY SHALL BE CLOSED, THE VALVE BOX GROUT FILLED AND THE COVER REMOVED.
11. CONTRACTOR SHALL REPLACE EXISTING WATER METER BOXES WHEN DEEMED NECESSARY BY THE JEA INSPECTOR.
12. CONTRACTOR TO PROVIDE ADDITIONAL DEPTH OF BURY VIA PIPE JOINT DEFLECTION TO ACCOMMODATE VALVE SELECTION PER JEA STANDARDS.
13. WATER METERS MAY REQUIRE RELOCATION FOR CONSTRUCTION, CONTRACTOR SHALL CONTACT JEA METER DEPARTMENT AND RELOCATE WATER METERS AS NECESSARY.
14. PRIOR TO COMMENCING ANY EXCAVATION OR GRADING, THE CONTRACTOR SHALL OBTAIN ALL GEOTECHNICAL AND TOPOGRAPHIC SURVEY DATA AND LOCATIONS OF ABOVE GROUND AND UNDERGROUND UTILITIES. SHOULD THE CONTRACTOR DISCOVER ANY INACCURACIES, ERRORS OR OMISSIONS IN THE SURVEY DATA, HE SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER IN ORDER THAT PROPER ADJUSTMENTS CAN BE ANTICIPATED AND ORDERED.
15. SHEET PILING WILL BE REQUIRED ON ALL EXCAVATIONS DEEPER THAN 16 FEET.

## INDEX OF DRAWINGS


| SHEET NUMBER | DRAWING NUMBER | SHEET TITLE |
|---|---|---|
| **GENERAL** | | |
| 1 | G-01 | CITY OF JACKSONVILLE COVER PAGE |
| 2 | G-02 | GENERAL NOTES, LEGEND AND SHEET INDEX |
| 3 | G-03 | HYDRAULIC PROFILE |
| **INSTRUMENTATION** | | |
| 4 | I-1 | INSTRUMENTATION NOTES AND LEGEND |
| 5 | I-2 | P & I DIAGRAM - PROCESS |
| 6 | I-3 | P & I DIAGRAM - MISCELLANEOUS |
| 7 | I-4 | SCADA PANEL DETAILS |
| 8 | I-5 | PCP PANEL DETAILS |
| **CIVIL** | | |
| 9 | C-01 | EXISTING SITE PLAN COVER |
| 10 | C-02 | EXISTING SITE PLAN |
| 11 | C-03 | SITE DEMOLITION PLAN |
| 12 | C-04 | SITE GEOMETRY PLAN |
| 13 | C-05 | SITE PAVING, GRADING AND DRAINAGE PLAN |
| 14 | C-06 | MECHANICAL DETAILS |
| 15 | C-07 | MECHANICAL DETAILS |
| 16 | C-08 | MECHANICAL DETAILS |
| **LANDSCAPE** | | |
| 17 | TR-01 | TREE REMOVAL PLAN |
| 18 | TR-02 | TREE REMOVAL NOTES AND DETAILS |
| 19 | L-01 | LANDSCAPE PLAN |
| 20 | L-02 | LANDSCAPE NOTES AND DETAILS |
| **MECHANICAL** | | |
| 21 | M-01 | PUMP STATION DEMOLITION PLAN |
| 22 | M-02 | PUMP STATION UPPER LEVEL DEMOLITION PLAN |
| 23 | M-03 | PUMP STATION CROSS SECTION DEMOLITION PLAN |
| 24 | M-04 | PUMP STATION NEW AND REPLACEMENT PLAN |
| 25 | M-05 | PUMP STATION UPPER LEVEL NEW AND REPLACEMENT PLAN |
| 26 | M-06 | PUMP STATION CROSS SECTION NEW AND REPLACEMENT PLAN |

| SHEET NUMBER | DRAWING NUMBER | SHEET TITLE |
|---|---|---|
| **ARCHITECTURAL** | | |
| 27 | A-01 | LIFE SAFETY PLAN |
| 28 | A-02 | MAIN LEVEL - DEMOLITION PLAN & NEW FLOOR PLAN |
| 29 | A-03 | LOWER LEVEL - DEMOLITION PLAN & NEW FLOOR PLAN |
| 30 | A-04 | DEMO EXTERIOR ELEVATIONS |
| 31 | A-05 | NEW EXTERIOR ELEVATIONS |
| 32 | A-06 | WALL SECTIONS |
| 33 | A-07 | DOOR SECURITY NOTES AND ELEVATIONS |
| 34 | A-08 | DEMOLITION AND NEW ROOF PLAN |
| 35 | A-09 | ROOF DETAILS & SECTIONS |
| 36 | A-10 | DRYPROOFING DETAILS |
| **STRUCTURAL** | | |
| 37 | S-01.0 | STRUCTURAL GENERAL NOTES |
| 38 | S-01.1 | FOUNDATION AND SLAB LEVEL PLAN |
| 39 | S-01.2 | STRUCTURAL SECTIONS AND DETAILS |
| 40 | S-01.3 | WALL AND ROOF OPENING REINFORCING DETAILS |
| **HVAC** | | |
| 41 | H-01 | MECHANICAL SCHEDULES & DETAILS |
| 42 | H-02 | MECHANICAL DEMOLITION PLAN & FLOOR PLAN |
| **PLUMBING** | | |
| 43 | P-01 | PLUMBING SCHEDULES & DETAILS |
| 44 | P-02 | PLUMBING DEMOLITION PLAN & FLOOR PLAN |
| **ELECTRICAL** | | |
| 45 | E-1 | LEGEND, SCHEDULES, AND ELECTRICAL SITE PLAN |
| 46 | E-2 | MAIN LEVEL - POWER - DEMOLITION AND NEW WORK |
| 47 | E-3 | LOWER LEVEL - POWER - DEMOLITION AND NEW WORK |
| 48 | E-4 | MAIN LEVEL - LIGHTING - DEMOLITION & NEW WORK |
| 49 | E-5 | LOWER LEVEL - LIGHTING - DEMOLITION & NEW WORK |
| 50 | E-6 | SINGLE LINE DIAGRAM - EXISTING |
| 51 | E-7 | SINGLE LINE DIAGRAM - NEW WORK |


NOTE:

STANDARD DRAWINGS ARE APPLICABLE FOR ALL PROJECTS, INCORPORATED BY REFERENCE AND ARE AVAILABLE AT JEA.COM


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REVISIONS

| NO. | BY | DATE | |
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| 6. | X | X | X |
| 5. | X | X | X |
| 4. | X | X | X |
| 3. | X | X | X |
| 2. | X | X | X |
| 1. | X | X | X |

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FLORIDA REGISTRATION NO.
54068


| | |
|---|---|
| DESIGNER: | SAB |
| DRAWN BY: | DLS |
| DATE: | MAY 2019 |
| CHECKED BY: | WPO/COB |
| DATE: | MAY 2019 |

JEA Building Community

4881 TIMUQUANA ROAD
WW PUMPING STATION UPGRADES
GENERAL NOTES, LEGEND, AND SHEET INDEX

| | |
|---|---|
| PROJ. NO. | J6609 |
| DATE: | MAY 2019 |
| SCALE: | NONE |
| NO. SHEETS | 51 |
| SHEET NO. | 2 |
| DRAWING NO. | G-02 |

BID REVIEW


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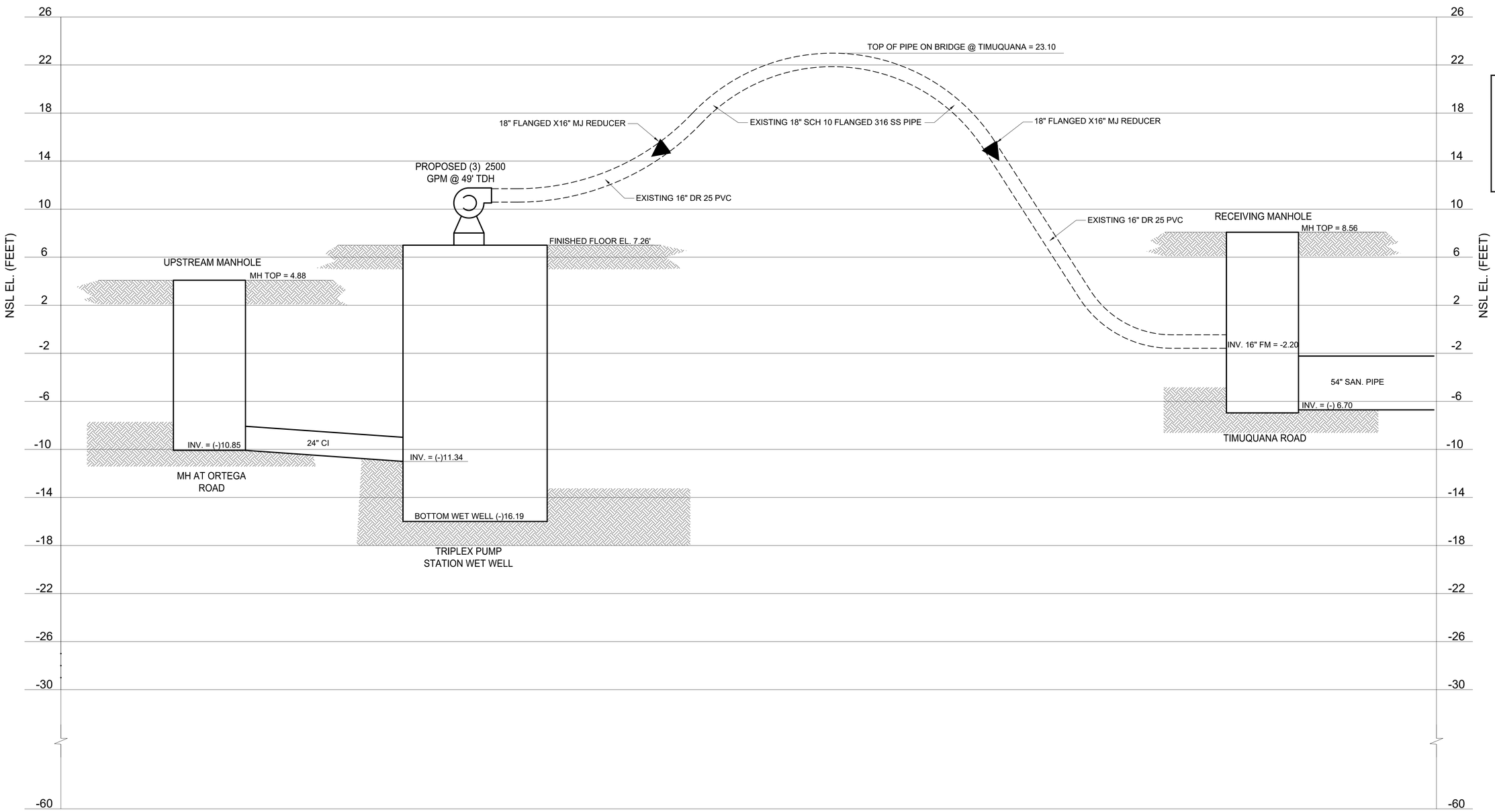
Xrefs Attached=

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| 6. | | | |
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| DATE: | MAY 2019 |

JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
HYDRAULIC PROFILE

| | |
|---|---|
| PROJ. NO. | J6609 |
| DATE: | MAY 2019 |
| SCALE: | |

| | |
|---|---|
| NO. SHEETS | 51 |
| SHEET NO. | 3 |
| DRAWING NO. | G-03 |

BID REVIEW

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Xrefs Attached= J6609 Border [.\J6609 Border.dwg]

## GENERAL INSTRUMENT OR FUNCTION SYMBOLS

- DISCRETE INSTRUMENT – FIELD MOUNTED
- DISCRETE INSTRUMENT – PRIMARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR (1)
- DISCRETE INSTRUMENT – AUXILLARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR (1)
- INSTRUMENTS SHARING COMMON HOUSING
- HATCHED ITEMS INDICATE TO BE PROVIDED BY OTHERS
- (1) NORMALLY INACCESSIBLE OR BEHIND–THE–PANEL DEVICES OR FUNCTIONS MAY BE DEPICTED BY USING THE SAME SYMBOL, BUT WITH DASHED HORIZONTAL BARS.
- (I) CONTROL INTERLOCK
- (A) CONTROL SYSTEM I/O INTERFACE – ANALOG SIGNAL. DIRECTION OF TRIANGLE DENOTES WHETHER INPUT OR OUTPUT.
- (D) CONTROL SYSTEM I/O INTERFACE – DISCRETE SIGNAL. DIRECTION OF TRIANGLE DENOTES WHETHER INPUT OR OUTPUT.
- PNEUMATIC SIGNAL
- EXISTING EQUIPMENT
- FUTURE EQUIPMENT
- DIAPHRAGM SEAL
- (B) BUBBLER SYSTEM
- (P) PURGE OR FLUSHING DEVICE

## PROCESS DEVICE SYMBOLS

- REDUCER OR ENLARGER
- PRIMARY ELEMENT VENTURI TUBE
- (M) PRIMARY ELEMENT MAGNETIC FLOWMETER
- PRIMARY ELEMENT ULTRASONIC DOPPLER FLOWMETER
- PRIMARY ELEMENT PARSCHALL FLUME
- PRIMARY ELEMENT ORIFICE PLATE
- PRIMARY ELEMENT WEIR FLOWMETER
- PRIMARY ELEMENT TURBINE OR PROPELLER TYPE METER
- PRIMARY ELEMENT PITOT TUBE
- PRIMARY ELEMENT ROTAMETER
- PRIMARY ELEMENT STRAP ON ULTRASONIC TRANSIT TIME METER
- PRIMARY ELEMENT STRAP ON ULTRASONIC DOPPLER METER
- (LE OR FE) PRIMARY ELEMENT ULTRASONIC FLOW OR LEVEL METER
- FLOAT SWITCH
- DRAIN
- CHEMICAL INJECTION POINT

## PROCESS DEVICE SYMBOLS (CONTINUED)

- GATE VALVE: GLOBE OR OTHER IN–LINE TYPE, UNLESS OTHERWISE INDICATED.
- BUTTERFLY VALVE
- CHECK VALVE WITH FLOW DIRECTION AS INDICATED
- PLUG VALVE
- BALL VALVE
- (REGULATED SIDE) PRESSURE REGULATING VALVE – SELF CONTAINED
- FLOW CONTROL GATE
- CENTRIFUGAL BLOWER
- CENTRIFUGAL PUMP
- (M) SUBMERSIBLE PUMP
- (M) (RATE SET, STROKE ADJUST) DIAPHRAGM PUMP & MOTOR
- DISC FLOW OR PROGRESSIVE CAVITY PUMP
- VERTICAL PUMP
- (M) MOTOR – MAY BE ELECTRIC, HYDRAULIC, OR PNEUMATIC. ARROW DENOTES VARIABLE SPEED.

## FUNCTION SYMBOLS & ABBREVIATIONS

- K PROPORTIONAL GAIN OR ATTENUATE (INPUT:OUTPUT)
- –K REVERSE PROPORTIONAL GAIN OR ATTENUATE (INPUT:OUTPUT)
- Σ SUMMING
- Σ/n AVERAGING
- Δ SUBTRACTING
- √ EXACT SQUARE ROOT
- ÷ DIVIDE
- x MULTIPLY
- S INTEGRATE
- + BIAS POSITIVE
- – BIAS NEGATIVE
- f(X) NONLINEAR OR UNSPECIFIED FUNCTION
- > HIGH SELECT
- < LOW SELECT
- HIGH LIMIT
- LOW LIMIT
- ✱/✱ SIGNAL TRANSDUCER OR CONVERTER (INPUT/OUTPUT) ✱ DEFINED AS FOLLOWS:
  - E VOLTAGE
  - H HYDRAULIC
  - I CURRENT
  - PD PULSE DURATION
  - O ELECTROMAGNETIC, SONIC
  - P PNEUMATIC
  - PD PULSE DURATION
  - R RESISTANCE (ELECTRIC)

CHEMICAL ABBREVIATIONS:
(STANDARD CHEMICAL FORMULAS ARE USED)

HAND SWITCH ABBREVIATIONS:

- A AUTOMATIC
- C COMPUTER OR CLOSE
- H HAND
- L LOCAL
- M MODULATE
- O OFF OR OPEN
- R REMOTE
- S START OR STOP

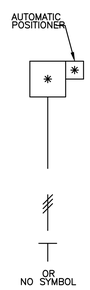
OTHER ABBREVIATIONS:

- AI ANALOG INPUT
- AO ANALOG OUTPUT
- AS AIR SUPPLY
- COND CONDUCTIVITY
- CR CHLORINE RESIDUAL
- DI DIGITAL OR DISCRETE INPUT
- ES ELECTRIC SUPPLY
- FC FAIL CLOSED
- FLP FAIL LAST POSITION
- FO FAIL OPEN
- MC MOTOR CONTROLLER
- NC NORMALLY CLOSED
- PLC PROGRAMMABLE LOGIC CONTROLLER
- RTU REMOTE TERMINAL UNIT
- VFD VARIABLE FREQUENCY DRIVE

## GENERAL NOTES

1. THIS IS A GENERAL LEGEND SHEET. SOME SYMBOLS & ABBREVIATIONS MAY NOT APPLY TO THIS SPECIFIC PROJECT.
2. THIS LEGEND APPLIES TO INSTRUMENTATION DIAGRAMS ONLY, & ITS SYMBOLS MAY NOT BE APPLICABLE TO NON–INSTRUMENTATION DRAWINGS.
3. THIS LEGEND SHEET & THE INSTRUMENTATION DIAGRAMS & I–DRAWINGS ARE GENERALLY BASED ON THE INSTRUMENT SOCIETY OF AMERICA'S STANDARDS FOR PRACTICES IN INSTRUMENTATION. SOME MODIFICATIONS, ADDITIONS, & ALTERATIONS MAY HAVE BEEN MADE TO ACCOMMODATE INDIVIDUAL PROJECT REQUIREMENTS.
4. SOME PROCESS ITEMS (SUCH AS EQUIPMENT ISOLATION VALVES, BYPASS LINES, ETC.) WHICH ARE NOT CRITICAL FOR AN UNDERSTANDING OF THE INSTRUMENTATION FUNCTIONS ARE NOT SHOWN ON THE INSTRUMENTATION SHEETS.
5. SEE ELECTRICAL SHEETS & SPECIFICATIONS FOR ADDITIONAL CONTROL & INTERLOCK REQUIREMENTS FOR EQUIPMENT NOT SHOWN OR NOT PROVIDED BY THE INSTRUMENTATION SUPPLIER.
6. SLANTED TEXT DENOTES EXISTING EQUIPMENT OR STRUCTURES. NON–SLANTED TEXT DENOTES NEW EQUIPMENT, STRUCTURES, & WORK. SLANTED TEXT (NOT SHADED) DENOTES FUTURE EQUIPMENT STRUCTURES & WORK.

## VALVE ACTUATOR SYMBOLS




VALVE OR GATE ACTUATOR WITH DEFINED AS FOLLOWS:

- P: AIR CYLINDER
- S: SOLENOID
- P/O: AIR/OIL CYLINDER
- E: ELECTRIC MOTOR
- H: HYDRAULIC CYLINDER
- EH: ELECTROHYDRAULIC
- Z: MISCELLANEOUS

FOR PRESSURE RELIEF OR SAFETY VALVES ONLY

MANUALLY (HAND) OPERATED

## INSTRUMENTATION IDENTIFICATION LETTERS

| | FIRST LETTER | | SUCCEEDING LETTERS | | |
|---|---|---|---|---|---|
| | MEASURED OR INITIATING VARIABLE | MODIFIER | READOUT OR PASSIVE FUNCTION | OUTPUT FUNCTION | MODIFIER |
| A | ANALYSIS | | ALARM | | |
| B | BURNER, COMBUSTION | | EMERGENCY | USER'S CHOICE | USER'S CHOICE |
| C | USER'S CHOICE | | CLEANER | CONTROL | |
| D | DENSITY (MASS) OR SPECIFIC GRAVITY | DIFFERENTIAL | | | |
| E | VOLTAGE (EMF) | | PRIMARY ELEMENT | | |
| F | FLOW RATE | RATIO (FRACTION) | | | |
| G | GAUGING (DIMENSIONAL) | | GLASS | | |
| H | HAND (MANUALLY INITIATED) | | | | HIGH OR OPEN |
| I | CURRENT (ELECTRICAL) | | INDICATE | | |
| J | POWER | SCAN | | | |
| K | TIME OR TIME SCHEDULE | | | CONTROL STATION | |
| L | LEVEL | | LIGHT (PILOT) | | LOW OR CLOSED |
| M | USER'S CHOICE | MOMENTARY | | | MIDDLE OR INTERMEDIATE |
| N | USER'S CHOICE | | USER'S CHOICE | USER'S CHOICE | USER'S CHOICE |
| O | USER'S CHOICE | | ORIFICE (RESTRICTION) | | |
| P | PRESSURE OR VACUUM | | POINT (TEST CONNECTION) | | |
| Q | QUANTITY | INTEGRATE OR TOTALIZE | | | |
| R | RUN | | RECORD | | |
| S | SPEED OR FREQUENCY | SAFETY | | SWITCH | |
| T | TEMPERATURE | | | TRANSMIT | |
| U | MULTIVARIABLE | | MULTIFUNCTION | MULTIFUNCTION | MULTIFUNCTION |
| V | VISCOSITY, VIBRATION | | | VALVE, DAMPER, OR LOUVER | |
| W | WEIGHT OR TORQUE | | WELL | | |
| X | FAILURE | X AXIS | | | |
| Y | EVENT, STATE, OR PRESENCE | Y AXIS | | RELAY, COMPUTE, CONVERT | |
| Z | POSITION, DIMENSION | Z AXIS | | DRIVE, ACTUATE, OR UNCLASSIFIED CONTROL ELEMENT | |

## TAG NUMBER & DESIGNATION EXAMPLE

- TYPICAL LOOP NUMBER
- ADDITIONAL INSTRUMENT IDENTIFICATION. SEE FUNCTION SYMBOLS & ABBREVIATIONS.
- WHEN USED, LETTER DISTINGUISHES BETWEEN MULTIPLE, SIMILAR DEVICES IN THE SAME INSTRUMENT LOOP
- INSTRUMENT ID. SEE TABLE ON RIGHT FOR SPECIFIC LETTER MEANING. EXAMPLE, AE REPRESENTS ANALYSIS ELEMENT.

BID REVIEW


10620 GRIFFIN ROAD, SUITE 202
COOPER CITY, FLORIDA 33328
PHONE: (954) 448–7930
C.O.A. NO. 6783
Stephen E. Bailey, P.E.
Florida P.E. No. 42461



A Full Service A & E Firm
5200 Belfort Road Jacksonville, FL 32256
Phone: 904.363.0969
Licenses:
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| NO. | BY | DATE | REVISIONS |
|---|---|---|---|
| 6 | X | X | X |
| 5 | X | X | X |
| 4 | X | X | X |
| 3 | X | X | X |
| 2 | X | X | X |
| 1 | X | X | X |

DESIGN ENGINEER
STEPHEN E. BAILEY
FLORIDA REGISTRATION NO.
42461

DESIGNER: JRN
DRAWN BY: JRN
DATE: APRIL 2019
CHECKED BY: SEB
DATE: APRIL 2019

JEA Building Community

# 4881 TIMUQUANA ROAD
# WASTEWATER PUMPING STATION UPGRADES
# INSTRUMENTATION NOTES & LEGEND

PROJ. NO. J6609
DATE: APRIL 2019
SCALE: AS NOTED

NO. SHEETS 5
SHEET NO. 4
DRAWING NO. I-1

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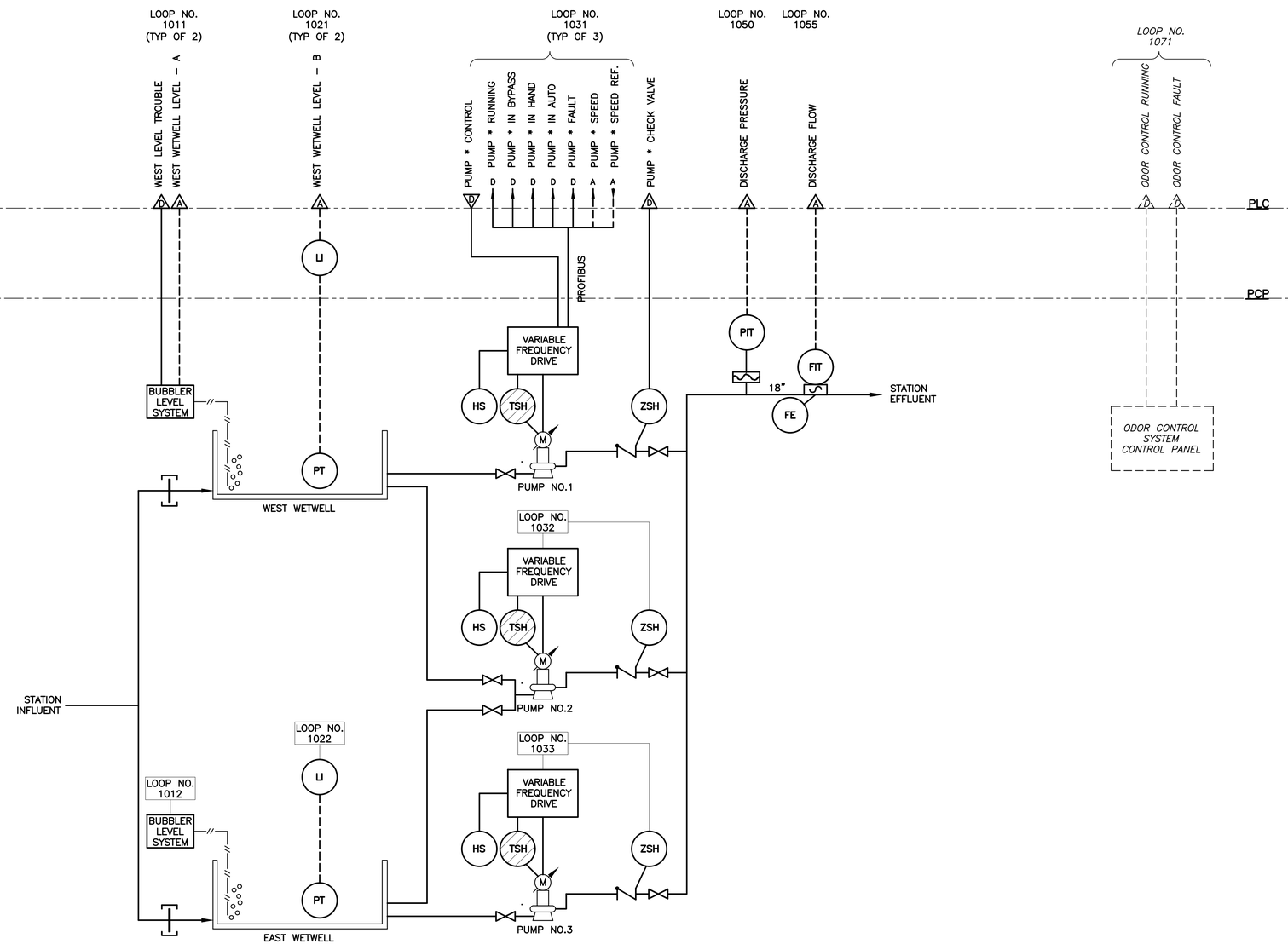


## PROCESS MONITORING AND CONTROL

N.T.S.

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COOPER CITY, FLORIDA 33328
PHONE: (954) 448-7930
C.O.A. NO. 6783
Stephen E. Bailey, P.E.
Florida P.E. No. 42461



A Full Service A & E Firm
5200 Belfort Road Jacksonville, FL 32256
Phone: 904.521.0899
Licenses:
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| NO. | BY | DATE | REVISIONS |
|---|---|---|---|
| 6. | X | X | |
| 5. | X | X | |
| 4. | X | X | |
| 3. | X | X | |
| 2. | X | X | |
| 1. | X | X | |

DESIGN ENGINEER
STEPHEN E. BAILEY
FLORIDA REGISTRATION NO. 42461

DESIGNER: JRN
DRAWN BY: JRN
DATE: APRIL 2019
CHECKED BY: SEB
DATE: APRIL 2019

JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
P & I DIAGRAM - PROCESS

PROJ. NO. J5609
DATE: APRIL 2019
SCALE: AS NOTED

NO. SHEETS 50
SHEET NO. 5
DRAWING NO. I-2

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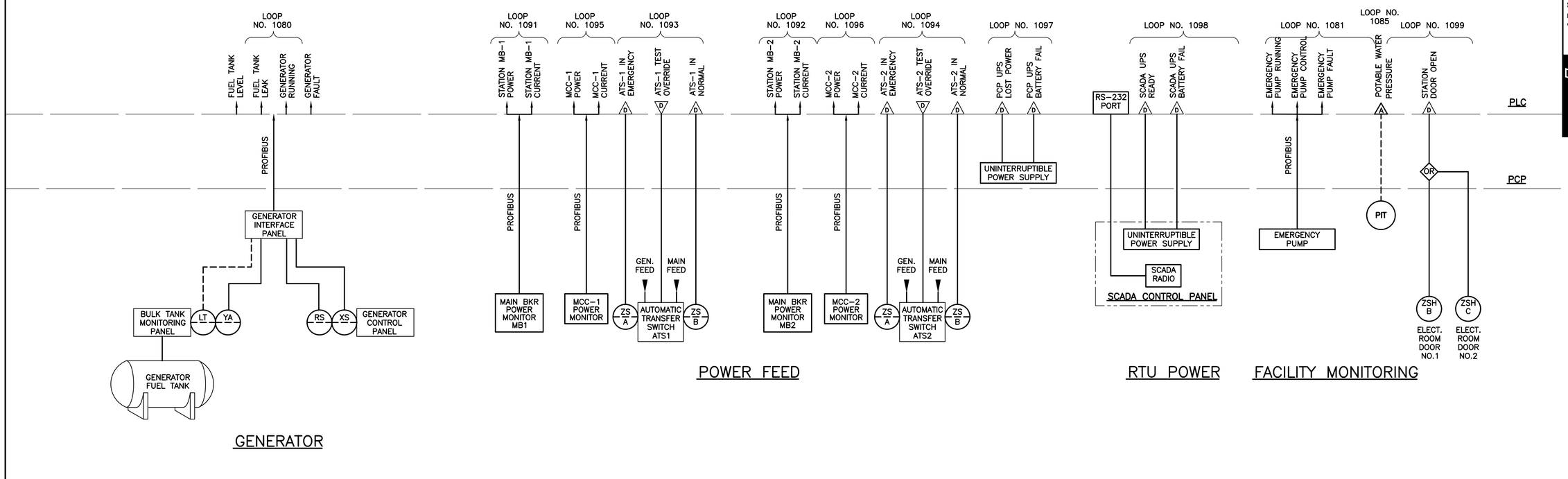


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| NO. | BY | DATE | REVISIONS |
|---|---|---|---|
| 6 | X | X | X |
| 5 | X | X | X |
| 4 | X | X | X |
| 3 | X | X | X |
| 2 | X | X | X |
| 1 | X | X | X |

DESIGN ENGINEER
STEPHEN E. BAILEY
FLORIDA REGISTRATION NO.
42461

DESIGNER: JRN
DRAWN BY: JRN
DATE: APRIL 2019
CHECKED BY: SEB
DATE: APRIL 2019

JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
P & I DIAGRAM - MISCELLANEOUS

PROJ. NO. J5609
DATE: APRIL 2019
SCALE: AS NOTED

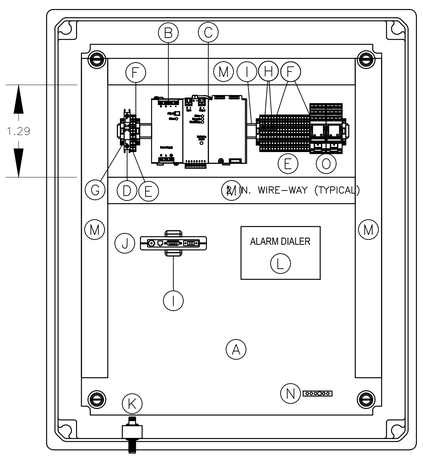
NO. SHEETS 50
SHEET NO. 6
DRAWING NO. I-3

X:\Active Projects\CPH\JEA\Timuquana Rd MPS\05_Bidset\Dwgs\I-03 PID-MISC.dwg, 3/5/2021 10:31:01 AM, fdelao

## BILL of MATERIAL

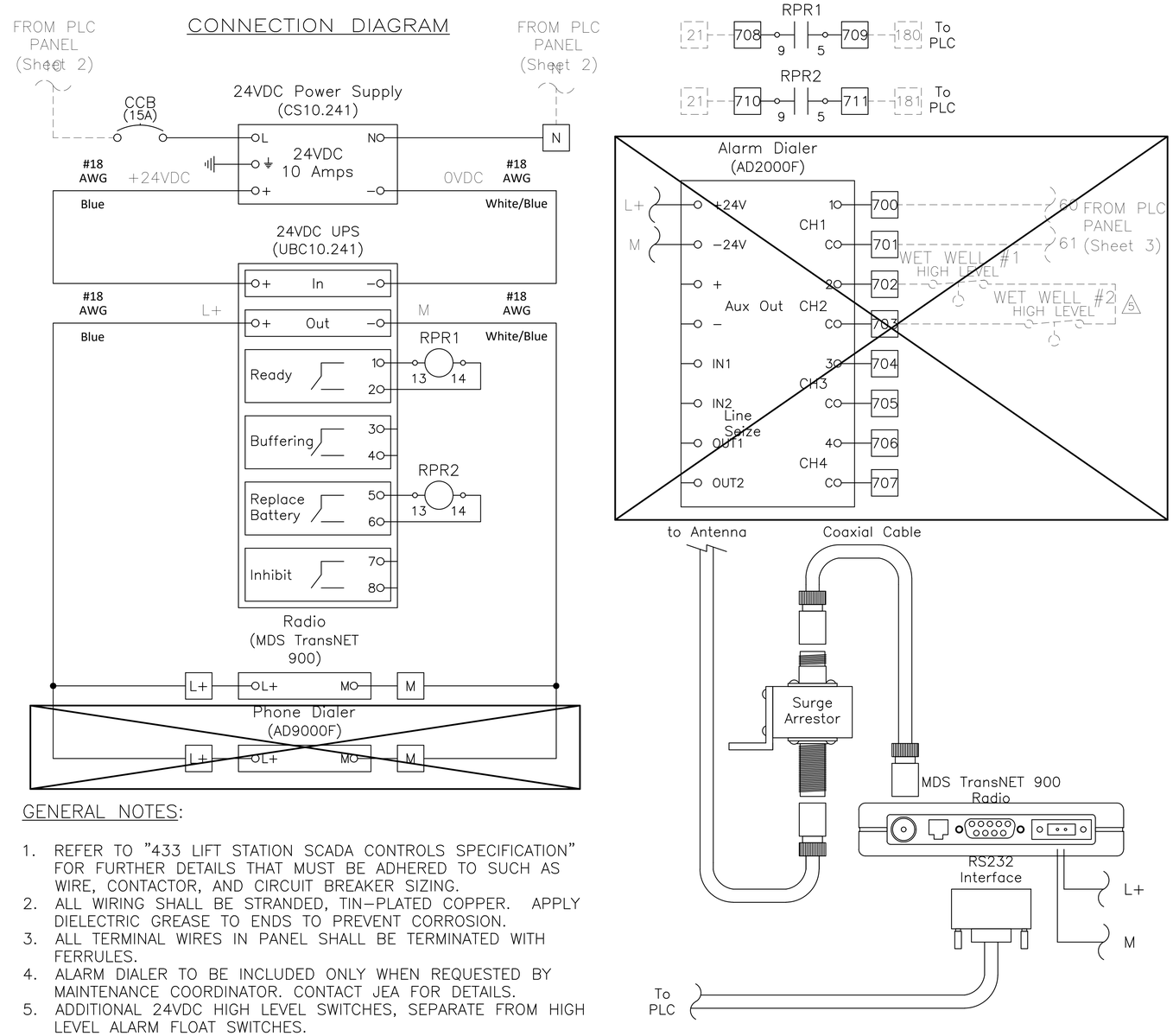
| | QTY | MANUFACTURER | PART NUMBER | DESCRIPTION |
|---|---|---|---|---|
| A | 1 | MDS | 82–3924A01 | FIBERGLASS ENCLOSURE |
| B | 1 | PULS | CS10.241 | 24VDC POWER SUPPLY, 10A |
| C | 1 | PULS | UBC10.241 | DC UPS, UL508, 10A, W/ BATTERY |
| D | 1 | WEIDMULLER | 9926 25 1015 | CCB, UL489, 1 POLE, 15A |
| E | 20 | WAGO | 2002–1401 | TERMINAL, 2002, SPRING, GRAY |
| F | 4 | WAGO | 2002–1492 | TERMINAL END / PARTITION PLATE, ORANGE |
| G | 4 | WAGO | 249–116 | TERMINAL END STOP, GRAY |
| H | 4 | WAGO | 2002–400 | ADJACENT JUMPER, 2–WAY CONTINUOUS |
| I | 1 | WAGO | 210–112 | 2M DIN RAIL, GALVANIZED, SLOTTED |
| J | 1 | MDS | TRANSNET 900 | RADIO, SPREAD–SPECTRUM, UNLICENSED |
| | 1 | MDS | 03–4124A01 | DIN RAIL MOUNT KIT |
| K | 1 | MDS | 97–1678A15 | SURGE SUPPRESSOR, ANTENNA |
| 4 L | 1 | USP | AD2000F | ALARM DIALER |
| M | 1 | PANDUIT | 2"W x 2"H x 72"L | WIREWAY, HINGE COVER, WIDE FINGER |
| N | 1 | SQUARE D | PK5GTA | EQUIPMENT GROUND BAR, 5–POINT |
| O | 2 | WAGO | 858–304 | RELAY, STATUS, SPRING, 4NO–NC, 24VDC |

## BACK PANEL LAYOUT




ENCLOSURE:
22"H x 18"W x 10"D, NEMA 4X RATED, FABRICATED FROM FIBERGLASS.

## CONNECTION DIAGRAM




GENERAL NOTES:

1. REFER TO "433 LIFT STATION SCADA CONTROLS SPECIFICATION" FOR FURTHER DETAILS THAT MUST BE ADHERED TO SUCH AS WIRE, CONTACTOR, AND CIRCUIT BREAKER SIZING.
2. ALL WIRING SHALL BE STRANDED, TIN–PLATED COPPER. APPLY DIELECTRIC GREASE TO ENDS TO PREVENT CORROSION.
3. ALL TERMINAL WIRES IN PANEL SHALL BE TERMINATED WITH FERRULES.
4. ALARM DIALER TO BE INCLUDED ONLY WHEN REQUESTED BY MAINTENANCE COORDINATOR. CONTACT JEA FOR DETAILS.
5. ADDITIONAL 24VDC HIGH LEVEL SWITCHES, SEPARATE FROM HIGH LEVEL ALARM FLOAT SWITCHES.

## JEA STANDARD SCADA PANEL

SCALE: N.T.S.


10620 GRIFFIN ROAD, SUITE 202
COOPER CITY, FLORIDA 33328
PHONE: (954) 448–7930
C.O.A. NO. 6783
Stephen E. Bailey, P.E.
Florida P.E. No. 42461


BID REVIEW


A Full Service A & E Firm
5200 Belfort Road Jacksonville, FL 32256
Phone: 904.521.0899
Licenses:
Eng. C.O.A. No. 3215 Arch. Lic. No. AA26000526
Survey L.B. No. 7143 Landscape L.C. No. LC26000288
www.cphcorp.com


| NO. | BY | DATE | REVISIONS |
|---|---|---|---|
| 6 | X | X | X |
| 5 | X | X | X |
| 4 | X | X | X |
| 3 | X | X | X |
| 2 | X | X | X |
| 1 | X | X | X |

DESIGN ENGINEER
STEPHEN E. BAILEY
FLORIDA REGISTRATION NO. 42461

DESIGNER: JRN
DRAWN BY: JRN
DATE: APRIL 2019
CHECKED BY: SEB
DATE: APRIL 2019

JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
SCADA PANEL DETAILS

PROJ. NO. J6609
DATE: APRIL 2019
SCALE: AS NOTED

NO. SHEETS IN SET 7
SHEET NO. 7
DRAWING NO. 1-4

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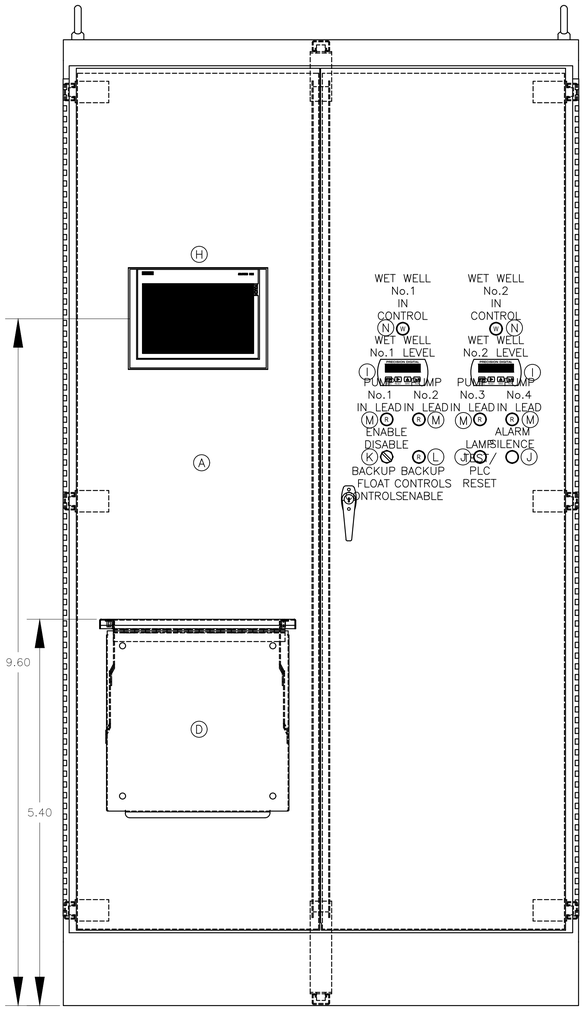


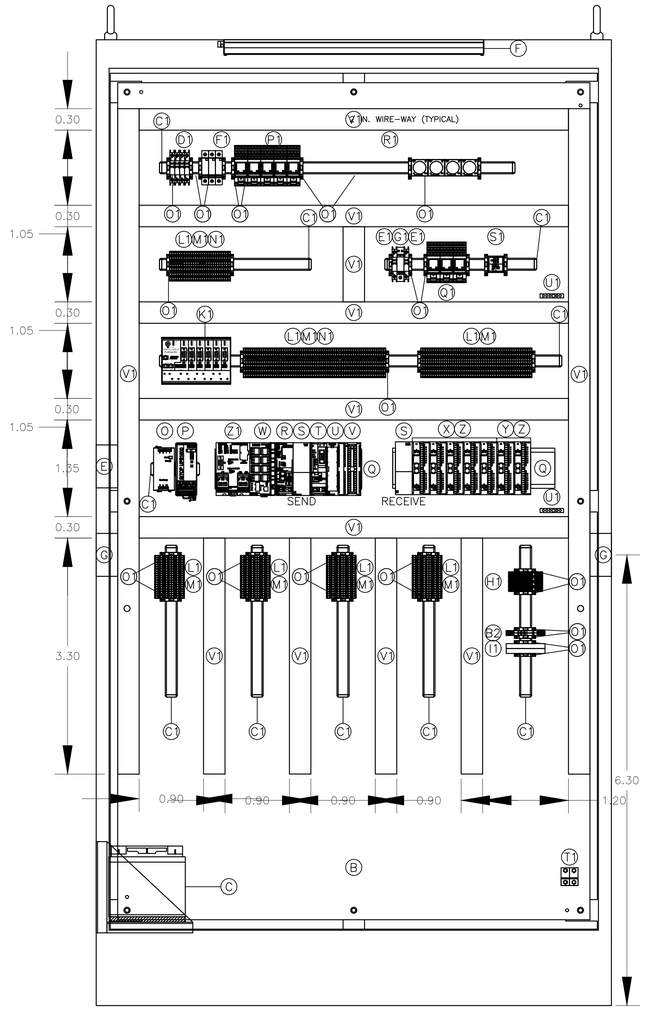


# BILL of MATERIAL

| | QTY | MANUFACTURER | PART NUMBER | DESCRIPTION |
|---|---|---|---|---|
| A | 1 | OEM | CUSTOM ENCLOSURE | SEE THIS SHEET FOR DETAILS |
| B | 1 | OEM | CUSTOM BACK PANEL | SEE THIS SHEET FOR DETAILS |
| C | 2 | POWER SONIC | PS-12180 F2 | BATTERY, LEAD-ACID, 12VDC, 18Ah |
| D | 1 | SCHAEFER | SP-SHELF18 | FOLDING LAPTOP SHELF, 18" |
| E | 1 | – | – | PANEL LIGHT SWITCH, 120VAC, 20A |
| F | 1 | – | – | 24" LED LIGHT PANEL |
| G | 2 | – | – | GFCI DUPLEX RECEPTACLE, 15A, 120VAC |
| H | 1 | SIEMENS | 6AV2 124-0QC02-0AX1 | OPERATOR PANEL TP 1500 TOUCH SCREEN |
| | 1 | SIEMENS | 6AV2 181-8XP00-0AX0 | SIMATIC HMI MEMORY CARD, 2GB |
| I | 2 | PRECISION DIGITAL | PD765-6R0-00 | 4-DIGIT PANEL METER, LED, NO OPTIONS |
| J | 1 | SQUARE D | 9001 KR1B | MOMENTARY PUSHBUTTON, 30mm, FLUSH |
| K | 1 | SQUARE D | 9001 KS11B | 2 POSITION MAINTAINED SWITCH, 30mm |
| L | 1 | SQUARE D | 9001 KP38LRR31 | PILOT LIGHT, RED, LED, 30mm, 120VAC |
| M | 4 | SQUARE D | 9001 KP35LRR31 | PILOT LIGHT, RED, LED, 30mm, 24VDC |
| N | 2 | SQUARE D | 9001 KP35LWC31 | PILOT LIGHT, WHITE, LED, 30mm, 24VDC |
| O | 1 | SIEMENS | 6EP4 134-3AB00-0AY0 | SITOP DC UPS, 10A WITH CHARGER |
| P | 1 | PULS | CS10.241 | 24VDC POWER SUPPLY, 10A |
| Q | 2 | SIEMENS | 6ES7 390-1AE80-0AA0 | 480mm MOUNTING RAIL FOR PLC EQUIP. |
| R | 1 | SIEMENS | 6ES7 315-2EH14-0AB0 | CPU 315-2 PN/DP, 384KB |
| | 1 | SIEMENS | 6ES7 953-8LL31-0AA0 | MMC MEMORY CARD, 2MB |
| S | 1 | SIEMENS | 6ES7 365-0BA01-0AA0 | IM 365 RACK INTERFACE MODULE |
| T | 1 | SIEMENS | 6NH7 800-3CA00 | SINAUT ST7, TIM 3V-IE ADVANCED MODULE |
| | 1 | TFS, INC. | – | SINAUT TO RADIO NULL CABLE |
| U | 1 | SIEMENS | 6ES7 370-0AA01-0AA0 | DM 370 DUMMY MODULE |
| V | 1 | SIEMENS | 6ES7 331-7NF10-0AB0 | 8 ANALOG INPUT MODULE, ISOLATED |
| | 1 | SIEMENS | 6ES7 392-1BM01-0AA0 | 40-PIN SPRING CONNECTOR |
| W | 1 | SIEMENS | 6GK5 108-0BA00-2AA3 | ETHERNET SWITCH, 8-PORT, UNMANAGED |
| X | 5 | SIEMENS | 6ES7 321-7BH01-0AB0 | 16 DIGITAL INPUT MODULE |
| Y | 2 | SIEMENS | 6ES7 322-1BH01-0AA0 | 16 DIGITAL OUTPUT MODULE |
| Z | 7 | SIEMENS | 6ES7 392-1BJ00-0AA0 | 20-PIN SPRING CONNECTOR |
| A1 | 2 | BRAD HARRISON | PA9D01-42 | PROFIBUS CONNECTOR, 90°, PG PORT |
| B1 | 4 | BRAD HARRISON | MA9D00-42 | PROFIBUS CONNECTOR, 180° |
| C1 | 2 | WAGO | 210-112 | 2M DIN RAIL, GALVANIZED, SLOTTED |
| D1 | 4 | WEIDMULLER | 9926 25 1015 | CB10, CB11, CB12, CB13, UL489, 1 POLE, 15A |
| E1 | 2 | WEIDMULLER | 9926 25 1910 | CB20 and CB21, UL489, 1 POLE, 10A |
| F1 | 3 | CITEL | DS41S-120 | 120VAC SURGE SUPPRESSOR, BASE |
| G1 | 1 | CITEL | DS220S-24DC | 24VDC SURGE SUPPRESSOR |
| H1 | 4 | CITEL | DLAW-24D3 | ANALOG SURGE SUPPRESSOR, 24VDC |
| I1 | 2 | WAGO | 2857-401 | ISOLATION AMPLIFIER, JUMPFLEX |
| J1 | – | CITEL | DLA-12D3 | PROFIBUS SURGE PROTECTOR |
| K1 | 1 | PROCENTEC | 17020R | PROFIBUS HUB |
| L1 | 218 | WAGO | 2002-1401 | TERMINAL, 2002, SPRING, GRAY |
| M1 | 23 | WAGO | 2002-1492 | TERMINAL END / PARTITION PLATE, ORANGE |
| N1 | 57 | WAGO | 2002-400 | ADJACENT JUMPER, 2-WAY CONTINUOUS |
| O1 | 34 | WAGO | 249-116 | TERMINAL END STOP, GRAY |
| P1 | 5 | FINDER | 58P481205060 | RELAY, STATUS, SPRING, 4NO-NC, 120VAC |
| Q1 | 3 | FINDER | 58P490245050 | RELAY, STATUS, SPRING, 4NO-NC, 24VDC |
| R1 | 4 | AUTONICS | AT8N-24-240 | ON-DELAY TIMER, 120VAC |
| S1 | 1 | NCC | KMM-9999M-96M | MULTI-FUNCTION TIMER, 24VDC |
| T1 | 2 | SQUARE D | PK5GTA | EQUIPMENT GROUND BAR, 5-POINT |
| U1 | 2 | PANDUIT | LAMA2-14-QY | GROUND LUG, DUAL-RATED, #2-14AWG |
| V1 | 7 | PANDUIT | 2"W x 2"H x 72"L | WIREWAY, HINGE COVER, WIDE FINGER |
| W1 | 1 | SIEMENS | 6XV1 830-0EH10 | PROFIBUS CABLE, FAST CONNECT TYPE |
| X1 | 7 | SIEMENS | 6AG1 901-1BB10-7AA0 | PROFINET CONNECTOR, SIPLUS |
| Y1 | 1 | SIEMENS | 6XV1 840-2AH10 | PROFINET CABLE, FAST CONNECT |
| Z1 | 1 | SIEMENS | 6ES7 972-0AB01-0XA0 | PROFIBUS DIAGNOSTIC REPEATER |
| A2 | 1 | WAGO | 2857-900 | CONFIGURATION UNIT, JUMPFLEX |
| B2 | 2 | WAGO | 857-423 | SIGNAL SPLITTER |
| B3 | – | – | – | – |

**BID REVIEW**

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www.cphcorp.com

| NO. | BY | DATE | REVISIONS |
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| 6. | X | X | X |
| 5. | X | X | X |
| 4. | X | X | X |
| 3. | X | X | X |
| 2. | X | X | X |
| 1. | X | X | X |

DESIGN ENGINEER
STEPHEN E. BAILEY
FLORIDA REGISTRATION NO. 42461

DESIGNER: JRN
DRAWN BY: JRN
DATE: APRIL 2019
CHECKED BY: SEB
DATE: APRIL 2019

JEA Building Community sm

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
PCP PANEL DETAILS

PROJ. NO. J6609
DATE: APRIL 2019
SCALE: AS NOTED

NO. SHEETS 8
SHEET NO. 8
DRAWING NO. I-5

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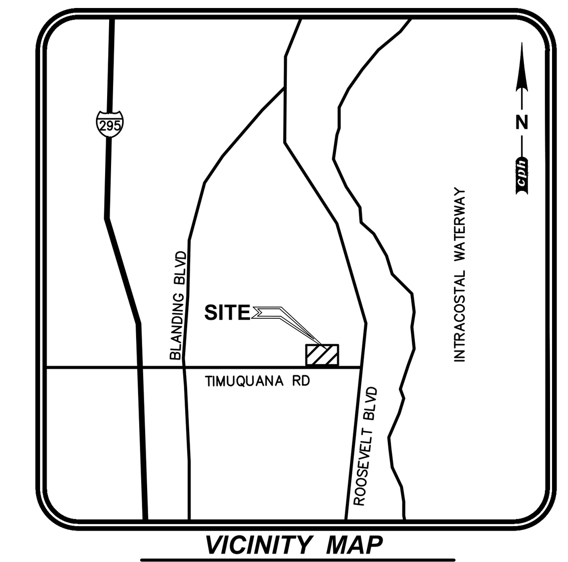
# BOUNDARY & TOPOGRAPHIC SURVEY
## FOR
# JACKSONVILLE ELECTRIC AUTHORITY
## AT
## 4881 TIMUQUANA ROAD
## LYING IN
# SECTION 42- TOWNSHIP 3 SOUTH-RANGE 26 EAST
# CITY OF JACKSONVILLE, DUVAL COUNTY, FLORIDA




**VICINITY MAP**
NOT TO SCALE

### Legal Description:
(OFFICIAL RECORDS BOOK 3818, PAGE 268 OF THE PUBLIC RECORDS OF DUVAL COUNTY, FLORIDA; AS PROVIDED BY CLIENT)

THAT CERTAIN PIECE, PARCEL OR TRACT OF LAND, SITUATE, LYING AND BEING IN THE CITY OF JACKSONVILLE, COUNTY OF DUVAL AND STATE OF FLORIDA, KNOWN AND DESCRIBED AS:

A PORTION OF LOTS 3 AND 4, REPLAT OF LANDS WEST OF A.C.L. RD. RIGHT–OF–WAY OF SUBDIVISION VENETIA, AS RECORDED IN PLAT BOOK 13, PAGE 57 OF THE CURRENT PUBLIC RECORDS OF DUVAL COUNTY, FLORIDA, LYING IN THE JOHN H. MCINTOSH GRANT, SECTION 42, TOWNSHIP 3 SOUTH, RANGE 26 EAST AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE NORTHERLY RIGHT–OF–WAY LINE OF TIMUQUANA ROAD, AS NOW ESTABLISHED, WITH THE WESTERLY RIGHT–OF–WAY LINE OF ORTEGA FOREST DRIVE, A 100 FOOT RIGHT–OF–WAY AS SHOWN ON PLAT OF ORTEGA MANOR, AS RECORDED IN PLAT BOOK 21, PAGE 82 OF SAID PUBLIC RECORDS; THENCE ON LAST SAID LINE, NORTH 00°32'15" EAST, 6.34 FEET TO POINT OF CURVATURE OF A CURVE TO THE LEFT, SAID CURVE BEING CONCAVE SOUTHWESTERLY AND HAVING A RADIUS OF 2698.18 FEET; THENCE IN A NORTHWESTERLY DIRECTION AND ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 87.02 FEET, SAID ARC BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF NORTH 00°23'11" WEST, 87.01 FEET TO THE SOUTH LINE OF THE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 519, PAGES 31 AND 32 OF SAID PUBLIC RECORDS; THENCE ON SAID SOUTH LINE, SOUTH 89°46'15" WEST, 180.96 FEET; THENCE SOUTH 00°13'45" EAST, 93.35 FEET TO THE SAID NORTHERLY RIGHT–OF–WAY LINE OF TIMUQUANA ROAD; THENCE NORTH 89°46'15" EAST AND ALONG SAID NORTH LINE, 181.11 FEET TO THE POINT OF BEGINNING.

CONTAINING 0.39 ACRES MORE OR LESS.

### Survey Notes:

1. "SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER."
2. "ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES."
3. THE TWO SITE BENCHMARKS FOR THIS TOPOGRAPHIC SURVEY ARE DISPLAYED ON THE RESPECTIVE SURVEY FILE. THESE BENCHMARKS ARE BASED ON A CLOSED VERTICAL CONTROL LOOP HAVING AN ACTUAL ERROR OF CLOSURE OF 0.024' WHICH MEETS THE ALLOWABLE CLOSURE OF 0.033'. THIS FIELDWORK WAS PERFORMED USING A TOPCON LEVEL MODEL #AT–G4 AND REFERENCES THE FOLLOWING PUBLISHED BENCHMARKS AS ESTABLISHED BY THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) AND SAID ELEVATIONS ARE MATCHED TO VERTICAL CONTROL BENCHMARKS SUPPLIED BY FLORIDA DEPARTMENT OF TRANSPORTATION AS FOLLOWS:

a) DESIGNATION # 7203012, CONCRETE MONUMENT STAMPED '720302 BM1' 160 FEET N OF TIMUQUANA RD ON E SIDE OF SR 15.

ELEVATION = 7.656 (NAVD '88)

b) DESIGNATION # PK NAIL AND DISK STAMPED 'PKD LB6508', IN CONCRETE CURB +/– 150' N OF GENOA AVE ON E SIDE OF US 17.

ELEVATION = 5.527 (NAVD '88)

SITE BENCHMARKS ARE AS SHOWN ON SHEET 2 OF 2.

4. THIS SURVEY IS NOT VALID WITHOUT SHEETS 1 THROUGH 2 OF 2.
5. THE LAST DAY FIELD WORK WAS PERFORMED WAS 7/19/17.
6. BEARINGS SHOWN HEREON ARE RELATIVE TO THE LINE BETWEEN NGS MONUMENTS I295 72 A15 AND I295 81 A04 AS REFERENCED IN NOTE 15. SAID BEARING BEING NORTH 01°23'23" EAST.
7. HAVING CONSULTED THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 12031C0527H, CITY OF JACKSONVILLE, EFFECTIVE DATE JUNE 3, 2013, THE SUBJECT PROPERTY APPEARS TO LIE IN ZONE X, WHICH ARE AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN WITH BASE FLOOD ELEVATIONS BEING DEPICTED IN NAVD '88, THIS DETERMINATION WAS BASED ON GEOSPATIAL DATA DOWNLOADED FROM WWW.FEMA.GOV AND THE SHAPE FILE DISPLAYED HEREON WAS REFERENCED TO ABOVE GROUND IMPROVEMENTS. THIS DETERMINATION WAS BASED ON A GRAPHIC INTERPOLATION OF SAID MAP AND NOT ON ACTUAL FIELD MEASUREMENTS.
8. THE APPARENT USE OF THE LAND, AS CLASSIFIED BY THE STANDARDS OF PRACTICE SET FORTH IN RULE CHAPTER 5J–17 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO FS 472.027 ESTABLISHES THAT THE MINIMUM RELATIVE ACCURACY FOR THIS TYPE OF SURVEY MEET THE HORIZONTAL CONTROL ACCURACY OF 1'/10,000 FEET FOR A COMMERCIAL/HIGH RISK SURVEY. THE MEASUREMENTS AND CALCULATIONS OF THE CLOSED GEOMETRIC FIGURES WERE FOUND TO MEET THIS ACCURACY REQUIREMENT. THE EQUIPMENT USED TO VERIFY THE HORIZONTAL CONTROL ON THE SUBJECT SURVEY WAS A TOPCON TOTAL STATION MODEL# GPT–3005W AND A TOPCON GPS HIPER PRO.
9. HORIZONTAL WELL–IDENTIFIED FEATURES IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED HORIZONTAL POSITIONAL ACCURACY OF 0.05 (FT). THE EQUIPMENT USED TO LOCATE THE FEATURES WAS A TOPCON MODEL# GPT–3005W TOTAL STATION AND A TOPCON GPS HIPER PRO.
10. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OR OPINION OF TITLE. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHTS–OF–WAY, AND/OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR EXCEPT AS NOTED BELOW:
DUVAL COUNTY PROPERTY APPRAISER INFORMATION DISPLAYED HEREON AS RE# 102128–0010 IS PER THE DUVAL COUNTY PROPERTY APPRAISER'S WEBSITE WWW.APPS.COJ.NET AS OF JULY 25, 2017.
11. NO UNDERGROUND UTILITIES, FOUNDATIONS OR IMPROVEMENTS, IF ANY, HAVE BEEN LOCATED EXCEPT AS SHOWN.
12. THIS SURVEY DOES NOT IDENTIFY THE LIMITS OR EXTENT OF POTENTIAL JURISDICTIONAL WETLAND BOUNDARIES.
13. FENCES EXISTING ON, OVER OR ADJACENT TO SUBJECT PROPERTY, ARE DISPLAYED HEREON; OWNERSHIP WHETHER SINGULAR OR JOINT WAS NOT DETERMINED BY THIS SURVEY. FENCES IN DIS–REPAIR WERE NOT LOCATED.
14. VERTICAL FEATURE ACCURACY: "ELEVATIONS OF WELL–IDENTIFIED FEATURES CONTAINED IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED VERTICAL POSITIONAL ACCURACY OF 0.05 (FT)."
15. STATE PLANE INFORMATION SHOWN HEREON IS USED FOR BASIS OF BEARING, (SEE SHEET 2 FOR BEARING AND DISTANCE) BASED ON THE NORTH AMERICAN DATUM OF 1983 (1990) USING CONTROL POINTS FROM THE NGS DATA SHEETS PUBLISHED AT WWW.LABINS.ORG AND ARE AS FOLLOWS:

a) DESIGNATION # I295 72 A15, PID #BC1034 = N 2,142,906.36 FEET, E 415,103.90 FEET

b) DESIGNATION # I295 81 A04, PID #BC1618 = N 2,182,720.33 FEET, E 416,069.78 FEET

THE EQUIPMENT USED TO TRANSFER THE STATE PLANE INFORMATION FROM THE ABOVE REFERENCED CONTROL POINTS TO THE SUBJECT SURVEY WAS A TOPCON GPS HIPER PRO.

14. THE UNDERGROUND UTILITIES DEPICTED BY PIPE LINETYPES ARE APPROXIMATE IN NATURE BASED UPON AN INSPECTION OF THE MANHOLE, GRATE, ETC. OF EACH FACILITY. EXISTING PIPES WERE NOT LAMPED OR REMOTELY VIEWED FOR DIRECTION, OBSTRUCTIONS OR CONNECTIVITY.

### Reference Material

1) FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT–OF–WAY MAP, STATE ROAD No. 134, SECTION 72511–2601 (72220), DATED 9–11–70.

2) REPLAT OF LAND WEST OF A.C.L.RD. RIGHT OF WAY OF SUBDIVISION VENETIA, PLAT BOOK 13, PAGE 57, OF THE PUBLIC RECORDS OF DUVAL COUNTY, FLORIDA.

3) OFFICIAL RECORDS BOOK 3818, PAGE 268 OF THE PUBLIC RECORDS OF OF DUVAL COUNTY, FLORIDA.

### Index of Sheets


1 COVER SHEET
2 BOUNDARY & TOPOGRAPHIC SURVEY


### Abbreviation Legend:

| | |
|---|---|
| (A) | ACTUAL |
| A/C | AIR CONDITIONER |
| ACSM | AMERICAN CONGRESS ON SURVEYING & MAPPING |
| ADA | AMERICANS WITH DISABILITIES ACT |
| ALTA | AMERICAN LAND TITLE ASSOCIATION |
| APPROX | APPROXIMATE |
| ARV | AIR RELEASE VALVE |
| AVE | AVENUE |
| AVG | AVERAGE |
| (BB) | BEARING BASIS |
| BFP | BACK FLOW PREVENTER |
| BLK | BLOCK |
| BLDG | BUILDING |
| BLVD | BOULEVARD |
| BM | BENCH MARK |
| BOC | BACK OF CURB |
| BOW | BACK OF WALK |
| BSL | BUILDING SETBACK LINE |
| BWF | BARBED WIRE FENCE |
| C–X | DENOTES SHEET NUMBERING FOR ENGINEERING PLANS |
| (C) | CALCULATED |
| C | CHORD |
| CATV | CABLE TELEVISION RISER |
| CB | CHORD BEARING |
| CBS | CONCRETE BLOCK STRUCTURE |
| C.C.R. | CERTIFIED CORNER RECORD |
| C&G | CURB & GUTTER |
| CI | CATCH INLET |
| C/L | CENTERLINE |
| CLF | CHAIN LINK FENCE |
| CM | CONCRETE MONUMENT |
| CMP | CORRUGATED METAL PIPE |
| CO | CLEANOUT |
| CONC | CONCRETE |
| COR | CORNER |
| CRPP | CORRUGATED PLASTIC PIPE |
| CUE | COUNTY UTILITY EASEMENT |
| CWS | CROSSWALK SIGNAL |
| Δ | DELTA |
| (D) | DESCRIPTION |
| DB | DEED BOOK |
| DBH | DIAMETER AT BREAST HEIGHT IN INCHES |
| DE | DRAINAGE EASEMENT |
| DEPT | DEPARTMENT |
| DIP | DUCTILE IRON PIPE |
| DR | DRIVE |
| D/U | DRAINAGE AND UTILITY EASEMENT |
| (E) | ENGINEERING PLAN |
| EJB | ELECTRIC JUNCTION BOX |
| EL | UNDERGROUND ELECTRICAL LINES |
| ELEC | ELECTRIC |
| ELEV | ELEVATION |
| ELLIP | ELLIPTICAL |
| EOI | END OF INFORMATION |
| EOP | EDGE OF PAVEMENT |
| FB | FIELD BOOK |
| FDOT | FLORIDA DEPARTMENT OF TRANSPORTATION |
| FF | FINISH FLOOR |
| FGI | FLAT GRATE INLET |
| FGLP | FIBERGLASS LIGHT POLE |
| FHYD | FIRE HYDRANT |
| FM | FORCE MAIN |
| FND | FOUND |
| FP&L | FLORIDA POWER AND LIGHT |
| FS | FLORIDA STATUTES |
| (G) | GRID (STATE PLANE) |
| GL | UNDERGROUND GAS LINES |
| GOV'T | GOVERNMENT |
| GPR | GROUND PENETRATING RADAR |
| GTMH | GREASE TRAP MANHOLE |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE |
| HWF | HOG WIRE FENCE |
| ID | IDENTIFICATION |
| ICV | IRRIGATION CONTROL VALVE |
| INFO | INFORMATION |
| INV | INVERT |
| IP | IRON PIPE |
| IP&C | IRON PIPE & CAP |
| IR | IRON ROD |
| IR&C | IRON REBAR & CAP |
| IRR | IRRIGATION |
| L | ARC LENGTH |
| LB# | LICENSED BUSINESS NUMBER |
| LP | LIGHT POLE |
| (M) | MEASURED |
| MB | MAP BOOK |
| MBX | MAILBOX |
| MES | MITERED END SECTION |
| MH | MANHOLE |
| MLP | METAL LIGHT POLE |
| MPH | MILES PER HOUR |
| MPP | METAL POWER POLE |
| N/A | NOT APPLICABLE |
| NAVD | NORTH AMERICAN VERTICAL DATUM |
| NAD | NORTH AMERICAN DATUM |
| NG | NATURAL GROUND |
| NGS | NATIONAL GEODETIC SURVEY |
| NGVD | NATIONAL GEODETIC VERTICAL DATUM |
| N & D | NAIL AND DISK |
| NO. | NUMBER |
| NR | NON–RADIAL |
| NSPS | NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS |
| NT | NON–TANGENT |
| NTS | NOT TO SCALE |
| OD | OUTSIDE DIAMETER |
| ORB | OFFICIAL RECORDS BOOK |
| OR | OFFICIAL RECORDS |
| OUL | OVERHEAD UTILITY LINES |
| OTL | OVERHEAD TRAFFIC LINES |
| (P) | PLAT |
| PB | PLAT BOOK |
| PC | POINT OF CURVATURE |
| PCC | POINT OF COMPOUND CURVATURE |
| PCP | PERMANENT CONTROL POINT |
| PFF | PROPOSED FINISHED FLOOR |
| PG | PAGE |
| PGS | PAGES |
| PI | POINT OF INTERSECTION |
| PIV | POST INDICATOR VALVE |
| PK | PARKER KAYLON |
| POB | POINT OF BEGINNING |
| POC | POINT OF COMMENCEMENT |
| POL | POINT ON LINE |
| PP | POWER POLE |
| PRC | POINT OF REVERSE CURVATURE |
| PRM | PERMANENT REFERENCE MONUMENT |
| PSM | PROFESSIONAL SURVEYOR & MAPPER |
| PT | POINT OF TANGENCY |
| PVC | POLYVINYL CHLORIDE PIPE |
| PVMT | PAVEMENT |
| R26E | RANGE 26 EAST |
| R | RADIUS |
| RAD | RADIAL |
| RCP | REINFORCED CONCRETE PIPE |
| REC | RECOVERED |
| REV | REVISION |
| RP | RADIUS POINT |
| R/W | RIGHT–OF–WAY |
| RLS | REGISTERED LAND SURVEYOR |
| RP | RADIUS POINT |
| RWL | UNDERGROUND RECLAIM WATER LINE |
| RWM | RECLAIMED WATER METER |
| SE | SPECIAL EASEMENT |
| SEC 42 | SECTION 42 |
| SMH | SANITARY SEWER MANHOLE |
| (SP) | STATE PLANE |
| SQ | SQUARE |
| SQ FT | SQUARE FEET |
| ST | STREET |
| STMH | STORM DRAINAGE MANHOLE |
| S/W | SIDEWALK |
| TB | TANGENT BEARING |
| T3S | TOWNSHIP 3 SOUTH |
| TELE | TELEPHONE |
| TL | OVERHEAD TRAFFIC SIGNAL LINES |
| TOB | TOP OF BANK |
| TOE | TOE OF SLOPE |
| TR | TELEPHONE RISER |
| TRANS | TRANSFORMER |
| TSB | TRAFFIC SIGNAL BOX |
| TSSP | TRAFFIC SIGNAL SUPPORT POLE |
| TVL | UNDERGROUND CABLE TV LINES |
| (TYP) | TYPICAL |
| UE | UTILITY EASEMENT |
| UNK | UNKNOWN |
| UTL | UNDERGROUND TELEPHONE LINES |
| W/ | WITH |
| WL | UNDERGROUND WATER LINE |
| WLP | WOOD LIGHT POLE |
| WM | WATER METER |
| WP | WORK PROGRAM |
| WPF | WOOD POST FENCE |
| WPP | WOOD POWER POLE |
| WV | WATER VALVE |

### Line Legend:
NOT TO SCALE

- = 1 FOOT CONTOURS
- = 5 FOOT CONTOURS
- = ADJOINER PROPERTY LINES
- = BARBED WIRE FENCE
- = BROKEN LINE
- UC = BURIED CABLE
- UCTV = BURIED CABLE TELEVISION
- UE = BURIED ELECTRIC
- UFO = BURIED FIBER OPTICS
- UG = BURIED GAS
- URW = BURIED RECLAIMED WATER LINE
- SAN = BURIED SANITARY LINES
- FM = BURIED SANITARY SEWER FORCE MAIN LINE
- TC = BURIED TRAFFIC CONTROL
- UT = BURIED TELEPHONE LINE
- UW = BURIED WATER LINES
- = CENTER LINE R/W
- = CHAIN LINK FENCE
- = EASEMENT LINES (EXISTING)
- = EASEMENT LINES (PROPOSED)
- EOW = EDGE OF WATER LINES
- = EXISTING DRAINAGE PIPES
- = EXISTING DRAINAGE PIPES (OUTFALL NOT LOCATED)
- FW = FIRE WATER MAIN LINES
- HW = HOT WATER SUPPLY LINES
- IRR = IRRIGATION LINES
- OTL = OVERHEAD TRAFFIC LINES
- OHU = OVERHEAD UTILITY LINES
- = RAILROAD TRACKS
- = RIGHT–OF–WAY LINES
- = SECTION LINES
- = STONE WALL LINES
- TOB = TOP OF BANK LINES
- TOE = TOE OF SLOPE LINES
- = TREE LINES
- TRAV = TRAVERSE LINES
- UNK = UNKNOWN BURIED LINES
- = VINYL FENCE
- = WOOD FENCE
- = WETLAND LINE
- OP = ORANGE PAINT LINE
- GP = GREEN PAINT LINE
- RP = RED PAINT LINE
- WP = WHITE PAINT LINE
- PP = PURPLE PAINT LINE
- BP = BLUE PAINT LINE
- YP = YELLOW PAINT LINE

### Symbol Legend:
NOT TO SCALE

- ARV – AIR RELEASE VALVE
- – BORING HOLE LOCATION
- – BRICK PAVERS
- CTV – CABLE TV RISER
- – CENTRAL ANGLE
- CO – CLEAN OUT
- – CONCRETE
- – CONCRETE LIGHT POLE
- – CONCRETE LIGHT POLE (DUAL)
- – CONCRETE LIGHT POLE (TRIPLE)
- – CONCRETE LIGHT POLE (QUAD)
- – CONCRETE MITERED END SECTION
- – CONCRETE PAVERS
- – CONCRETE RIP RAP
- – CONCRETE UTILITY POLE
- 41 – COUNTY ROAD SYMBOL
- – CROSSWALK SIGNAL POLE
- – DETECTABLE WARNING AREA
- – DUAL SUPPORT SIGN
- E – ELECTRICAL MANHOLE
- EM – ELECTRIC METER
- EJB – ELECTRICAL JUNCTION BOX
- EO – ELECTRIC OUTLET
- E – ELECTRIC RISER
- UFO – FIBER OPTIC MARKER
- – FIRE HYDRANT
- – FLOOD LIGHT
- – FOUND CONCRETE MONUMENT (AS NOTED)
- – FOUND IRON PIPE (AS NOTED)
- – FOUND IRON REBAR (AS NOTED)
- – FOUND/SET NAIL (AS NOTED)
- – GARBAGE CAN
- GAS – GAS MARKER
- GV – GAS VALVE
- – GOPHER TORTOISE HOLE
- – GRATE INLET
- – GRAVEL/DIRT
- G – GREASE TRAP MANHOLE
- – GROUND LIGHT
- – GUY ANCHOR
- – HANDICAP PARKING SPACE
- 95 – INTERSTATE SYMBOL
- ICV – IRRIGATION CONTROL VALVE
- – LIGHT POLE
- – LIGHT POLE (DUAL)
- – LIGHT POLE (TRIPLE)
- – LIGHT POLE (QUAD)
- – MAILBOX
- MW – MONITOR WELLS
- – NAIL & DISC (AS NOTED)
- 2 – PARKING SPACES (2)
- PBX – PULL BOX (AS NOTED)
- 3 – REVISION NUMBER (3)
- RWM – RECLAIMED WATER METER
- RWV – RECLAIMED WATER VALVE
- – ROOF DRAIN
- S – SANITARY SEWER MANHOLE
- SV – SANITARY SEWER VALVE
- 8 – SCHEDULE B ITEM NUMBER (8)
- – SECTION CORNER
- – 4" X 4" CM LB #7143
- – 5/8" IR&C LB #7143
- – SIGN
- – SITE BENCH MARK
- D – STORM SEWER MANHOLE
- – STRIPING (DIRECTIONAL)
- T – TELEPHONE CABLE RISER
- T – TELEPHONE MANHOLE
- TJB – TELEPHONE JUNCTION BOX
- TH – TEST HOLE
- TSB – TRAFFIC SIGNAL BOX
- – TRAFFIC SIGNAL SUPPORT POLE
- U – UNKNOWN MANHOLE
- UNK – UNKNOWN UTILITY MARKER
- UNK – UNKNOWN RISER
- UNK – UNKNOWN VALVE
- – VENT (AS NOTED)
- WM – WATER METER
- WS – WATER SERVICE
- – WATER SPIGOT
- WS – WATER SPRINKLER
- WV – WATER VALVE
- W – WELL
- – WETLAND FLAG
- – WOOD UTILITY POLE
- H2O – WATER LINE MARKER
- 1 – WIRE HEIGHTS (SEE CHART)

### Sign Legend:
NOT TO SCALE

- (R1) ROW NUMBER SIGN
- (B) BUS STOP SIGN
- (DE) DEAD END SIGN
- (DNE) DO NOT ENTER SIGN (R5–1)
- (HC) HANDICAP SIGN
- (HC) DUAL HANDICAP SIGN
- (INFO) INFORMATION SIGN
- (KR) KEEP RIGHT SIGN
- (LTO) LEFT TURN ONLY
- (ME) MEDIAN SIGN
- (ND) NO DUMPING SIGN
- (NL) NO LEFT TURN SIGN (R3–2)
- (NLI) NO LITTERING SIGN
- (NO) NO OUTLET SIGN
- (FL) NO PARKING FIRE LANE SIGN
- (NOR) NO RIGHT TURN SIGN (R3–1)
- (NTT) NO THRU TRAFFIC SIGN
- (NOT) NO TRUCKS (R5–2)
- (NP) NO PARKING SIGN
- (1W) ONE WAY SIGN (R6–2)
- (PE) PEDESTRIAN CROSSING SIGN
- (RTO) RIGHT TURN ONLY
- (SL) SPEED LIMIT SIGN
- (ST) STOP SIGN (R1–1)
- (SS) STREET SIGN
- (TZ) TOW AWAY ZONE SIGN
- (TE) TRUCK ENTRANCE SIGN
- (U) UNKNOWN SIGN
- (WL) WEIGHT LIMIT SIGN
- (WW) WRONG WAY SIGN
- (Y) YIELD SIGN

NOTE:
**THIS SURVEY IS NOT VALID WITHOUT SHEETS 1 THROUGH 2 OF 2.**

TITLE BLOCK ABBREVIATIONS
Eng. = ENGINEERING L.B. = LICENSED BUSINESS
C.O.A. = CERTIFICATE OF AUTHORIZATION Arch.= ARCHITECTURAL
Landscp. = LANDSCAPE N/A = NOT APPLICABLE Lic. = LICENSED
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### Surveyor's Certification:

I hereby certify that the attached "Boundary & Topographic Survey" of the hereon–described property is true and correct to the best of my knowledge, information and belief as surveyed in the field on July 19, 2017. I further certify that this "Boundary & Topographic Survey" meets the standards of practice set forth in Rule Chapter 5J–17 of the Florida Administrative Code, pursuant to FS 472.027.

For the Firm By: ______________________________

Jeffrey W. Patterson
Professional Surveyor and Mapper
Florida Registration No. 6384


cph
www.cphcorp.com
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5200 Belfort Road Jacksonville, FL 32256
Phone: 904.332.0999
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REVISIONS

| NO. | BY | DATE | |
|---|---|---|---|
| 6. | X | X | X |
| 5. | X | X | X |
| 4. | X | X | X |
| 3. | X | X | X |
| 2. | X | X | X |
| 1. | XXX | XXX | REVISED TITLE SHEET LAYOUT |

DESIGN ENGINEER
FLORIDA REGISTRATION NO.

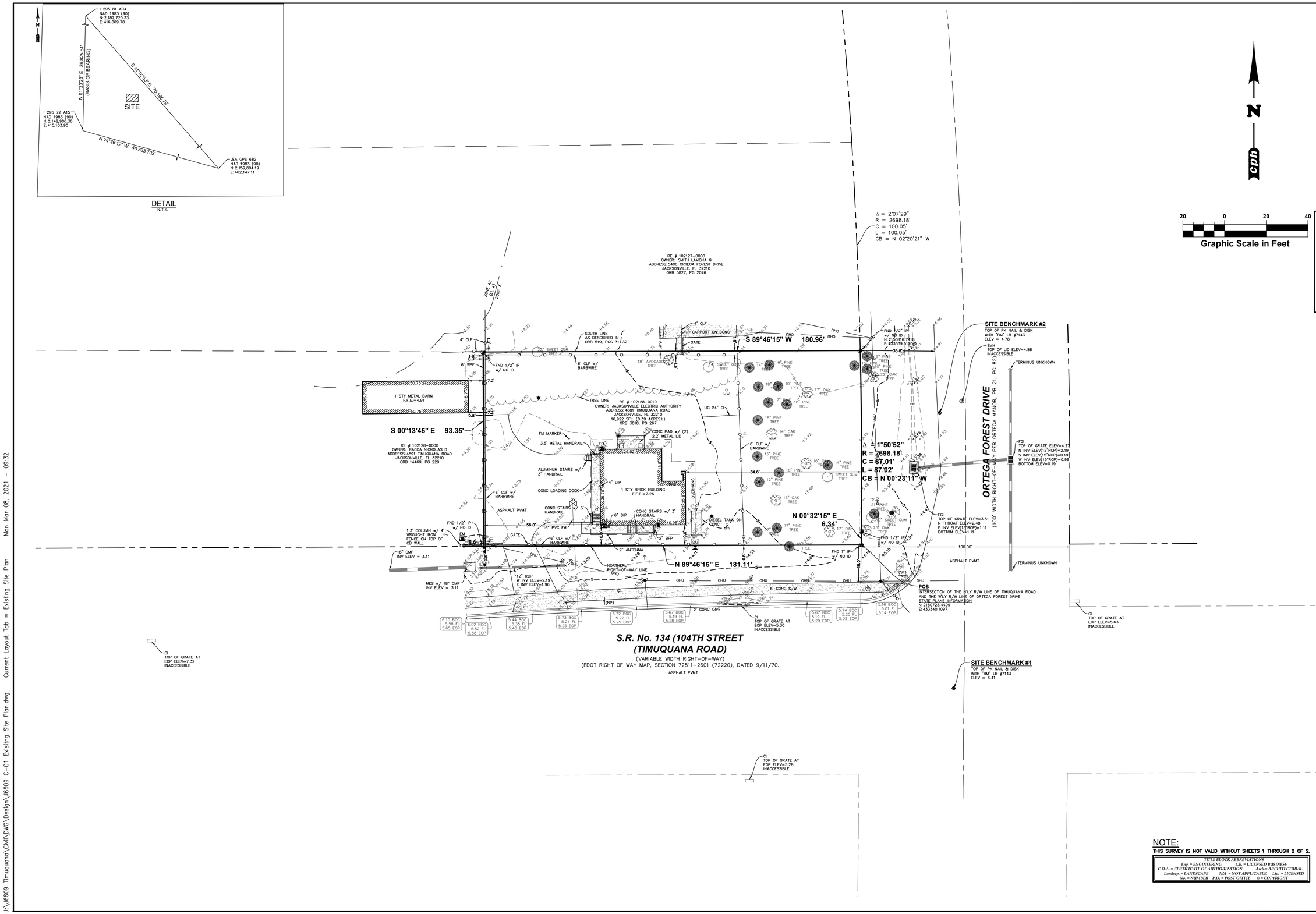
DESIGNER: N/A
DRAWN BY: JWP
DATE: MARCH 2019
CHECKED BY: RLR
DATE: MARCH 2019

JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
EXISTING SITE PLAN COVER

PROJ. NO. J6609
DATE: MARCH 2019
SCALE: 1" = 20'
NO. SHEETS 51
SHEET NO. 9
DRAWING NO. C-01

**BID REVIEW**




NOTE:
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5200 Belfort Road Jacksonville, FL 32256
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DATE: MAY 2019

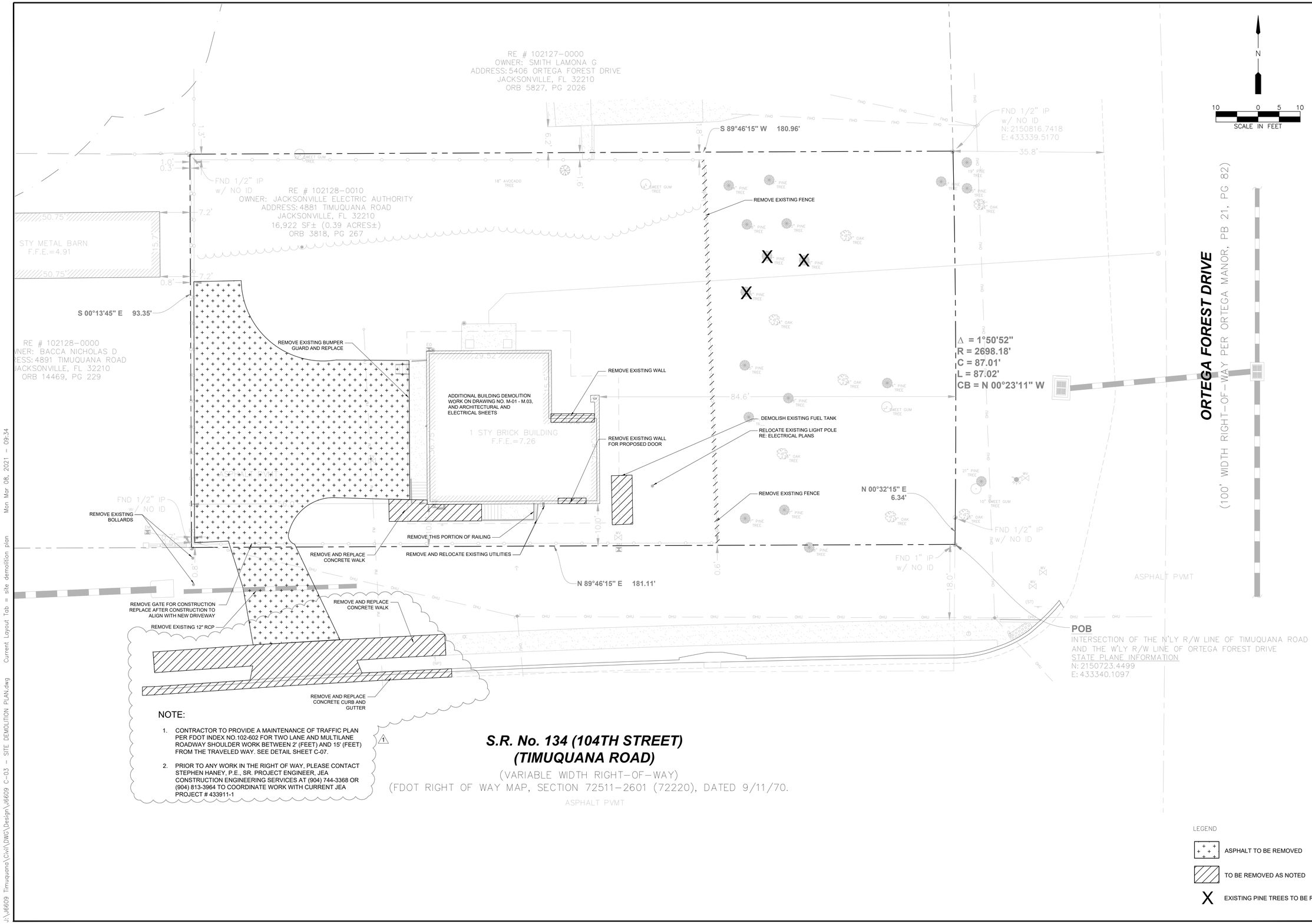
JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
EXISTING SITE PLAN

PROJ. NO. J6609
DATE: MAY 2019
SCALE: 1" = 10'
NO. SHEETS 51
SHEET NO. 10
DRAWING NO. C-02

J:\J6609 Timuquana\Civil\DWG\Design\J6609 C-01 Existing Site Plan.dwg Current Layout Tab = Existing Site Plan Mon Mar 08, 2021 - 09:32

Xrefs Attached= J6609 Border [J:\J6609\Civil\DWG\Design\J6609 Border.dwg]




NOTE:

1. CONTRACTOR TO PROVIDE A MAINTENANCE OF TRAFFIC PLAN PER FDOT INDEX NO.102-602 FOR TWO LANE AND MULTILANE ROADWAY SHOULDER WORK BETWEEN 2' (FEET) AND 15' (FEET) FROM THE TRAVELED WAY. SEE DETAIL SHEET C-07.
2. PRIOR TO ANY WORK IN THE RIGHT OF WAY, PLEASE CONTACT STEPHEN HANEY, P.E., SR. PROJECT ENGINEER, JEA CONSTRUCTION ENGINEERING SERVICES AT (904) 744-3368 OR (904) 813-3964 TO COORDINATE WORK WITH CURRENT JEA PROJECT # 433911-1

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| 1. | WPO | 1-15-21 | JEA/FDOT CITY REVIEW COMMENTS |

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| CHECKED BY: | WPO/CDB |
| DATE: | MAY 2019 |

JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
SITE DEMOLITION PLAN

| | |
|---|---|
| PROJ. NO. | J6609 |
| DATE: | MAY 2019 |
| SCALE: | 1" = 10' |

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| NO. SHEETS | 51 |
| SHEET NO. | 11 |
| DRAWING NO. | C-03 |


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Xrefs Attached= J6609 Border [J:\J6609\Civil\DWG\Design\J6609 Border.dwg]
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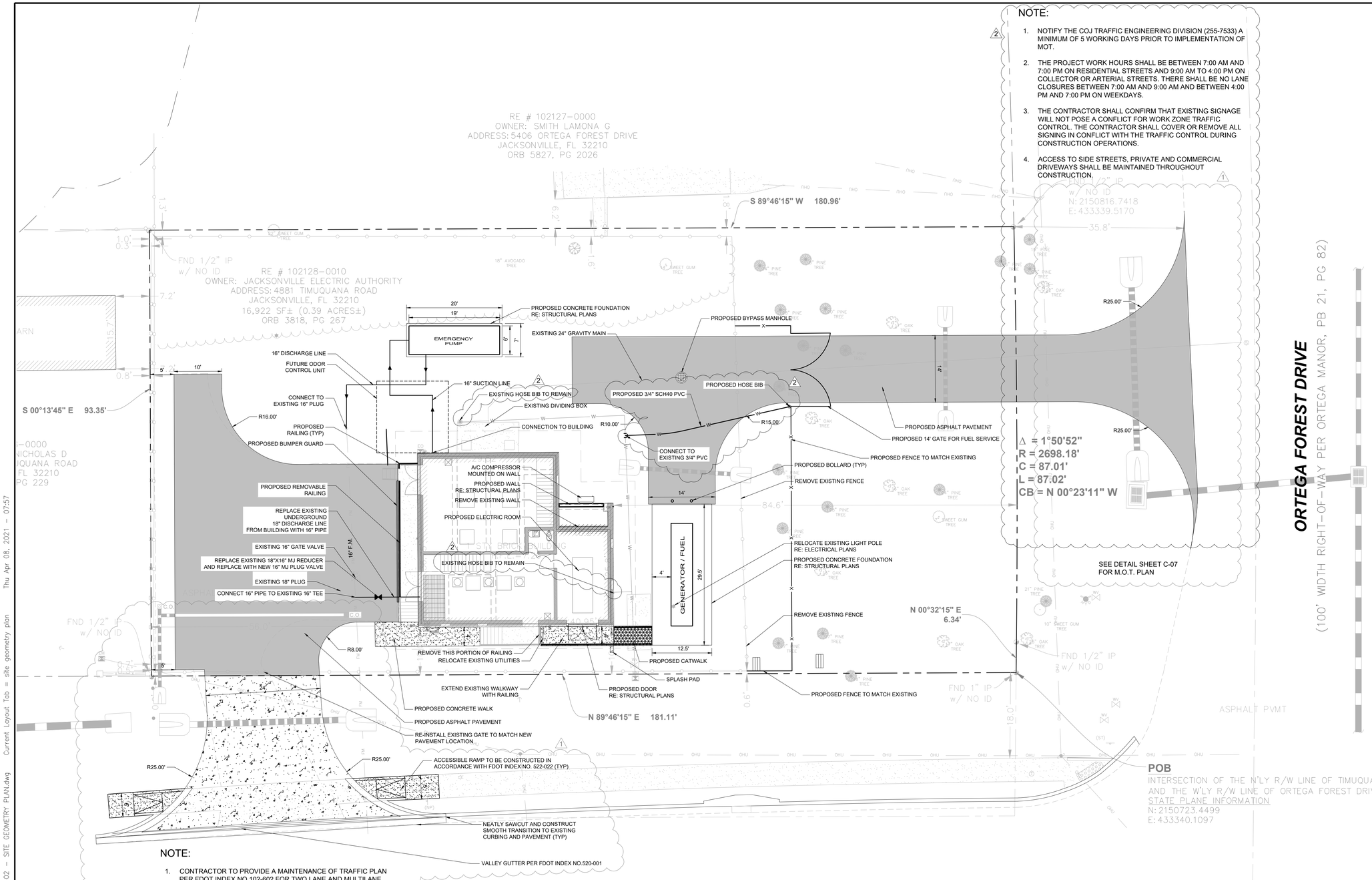
J6609 SURBASE [J:\J6609 SURBASE.dwg]




NOTE:

1. NOTIFY THE COJ TRAFFIC ENGINEERING DIVISION (255-7533) A MINIMUM OF 5 WORKING DAYS PRIOR TO IMPLEMENTATION OF MOT.
2. THE PROJECT WORK HOURS SHALL BE BETWEEN 7:00 AM AND 7:00 PM ON RESIDENTIAL STREETS AND 9:00 AM TO 4:00 PM ON COLLECTOR OR ARTERIAL STREETS. THERE SHALL BE NO LANE CLOSURES BETWEEN 7:00 AM AND 9:00 AM AND BETWEEN 4:00 PM AND 7:00 PM ON WEEKDAYS.
3. THE CONTRACTOR SHALL CONFIRM THAT EXISTING SIGNAGE WILL NOT POSE A CONFLICT FOR WORK ZONE TRAFFIC CONTROL. THE CONTRACTOR SHALL COVER OR REMOVE ALL SIGNING IN CONFLICT WITH THE TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS.
4. ACCESS TO SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

NOTE:

1. CONTRACTOR TO PROVIDE A MAINTENANCE OF TRAFFIC PLAN PER FDOT INDEX NO.102-602 FOR TWO LANE AND MULTILANE ROADWAY SHOULDER WORK BETWEEN 2' (FEET) AND 15' (FEET) FROM THE TRAVELED WAY. SEE DETAIL SHEET C-07.
2. PRIOR TO ANY WORK IN THE RIGHT OF WAY, PLEASE CONTACT STEPHEN HANEY, P.E., SR. PROJECT ENGINEER, JEA CONSTRUCTION ENGINEERING SERVICES AT (904) 744-3368 OR (904) 813-3964 TO COORDINATE WORK WITH CURRENT JEA PROJECT # 433911-1

LEGEND

- PROPOSED ASPHALT DRIVE
- PROPOSED CONCRETE SIDEWALK
- PROPOSED CONCRETE DRIVE

NOTES:

1. CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE PLAN AS SHOP DRAWING SUBMITTAL.

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| 3. | WPO | 4-9-21 | PER COJ REVIEW COMMENTS |
| 2. | WPO | 1-15-21 | JEA/FDOT CITY REVIEW COMMENTS |
| 1. | | | |

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FLORIDA REGISTRATION NO. 54068

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| DATE: | MAY 2019 |
| CHECKED BY: | WPO/CDB |
| DATE: | MAY 2019 |

JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
SITE GEOMETRY PLAN

| | |
|---|---|
| PROJ. NO. | J6609 |
| DATE: | MAY 2019 |
| SCALE: | 1" = 10' |

| | |
|---|---|
| NO. SHEETS | 51 |
| SHEET NO. | 12 |
| DRAWING NO. | C-04 |


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Xrefs Attached= J6609 Border [U:\J6609\Civil\DWG\Design\J6609 Border.dwg]
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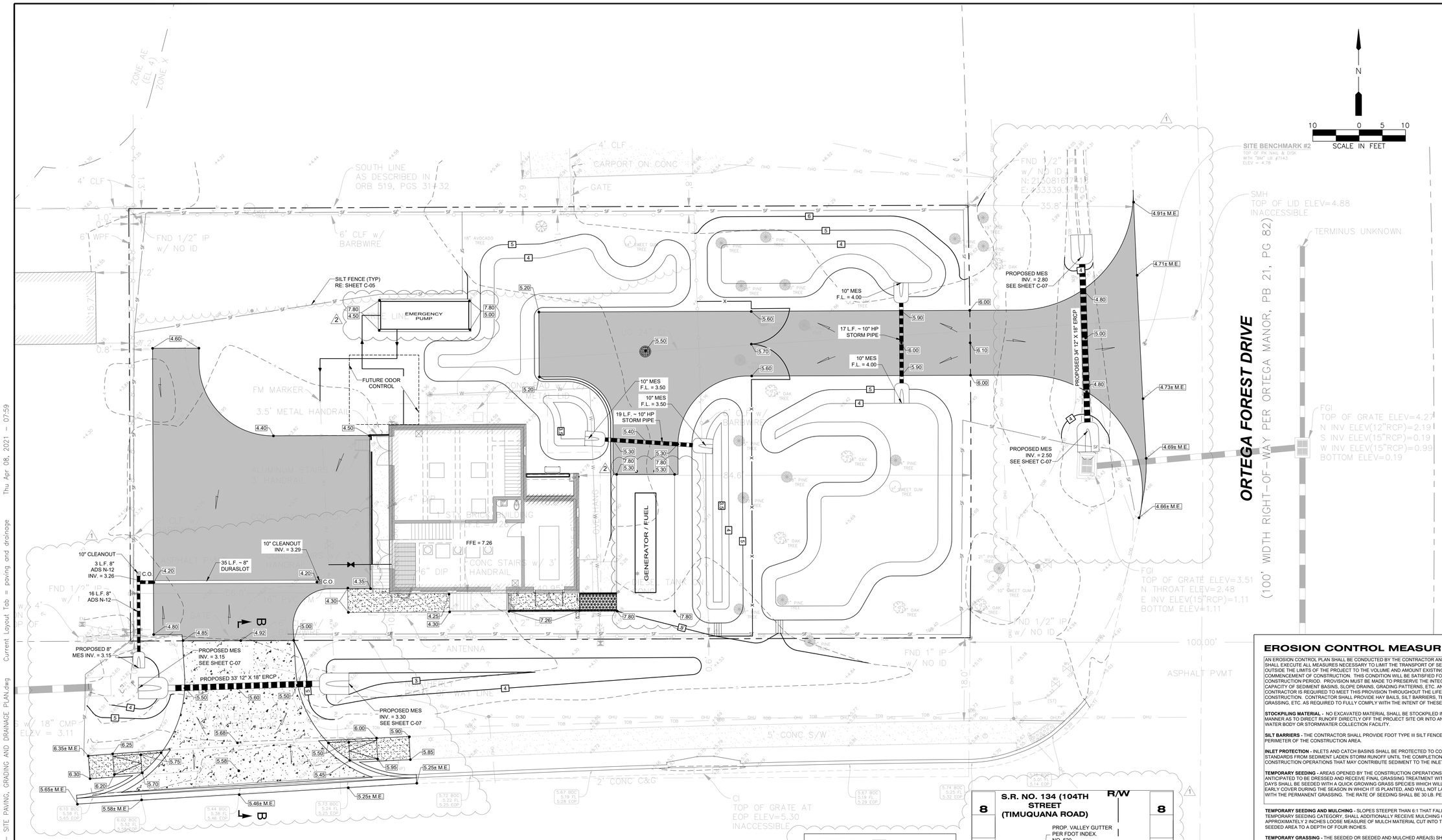
J6609 SURBASE [U:\J6609\Civil\DWG\Design\J6609 SURBASE.dwg]




## EROSION CONTROL MEASURES:

AN EROSION CONTROL PLAN SHALL BE CONDUCTED BY THE CONTRACTOR AND CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF SEDIMENT BASINS, SLOPE DRAINS, GRADING PATTERNS, ETC. AND THE CONTRACTOR IS REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. CONTRACTOR SHALL PROVIDE HAY BAILS, SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THESE MEASURES.

**STOCKPILING MATERIAL -** NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.

**SILT BARRIERS -** THE CONTRACTOR SHALL PROVIDE FDOT TYPE III SILT FENCE AROUND THE PERIMETER OF THE CONSTRUCTION AREA.

**INLET PROTECTION -** INLETS AND CATCH BASINS SHALL BE PROTECTED TO CONFORM TO FDOT STANDARDS FROM SEDIMENT LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.

**TEMPORARY SEEDING -** AREAS OPENED BY THE CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED, AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 LB. PER ACRES.

**TEMPORARY SEEDING AND MULCHING -** SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE TEMPORARY SEEDING CATEGORY, SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA TO A DEPTH OF FOUR INCHES.

**TEMPORARY GRASSING -** THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.

**TEMPORARY REGRASSING -** IF, AFTER FOURTEEN DAYS, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATION COVER.

**MAINTENANCE -** ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.

**F.D.O.T. STANDARDS -** SILT BARRIER AND INLET PROTECTION SHALL CONFORM TO FDOT INDEX 102. 10. CONTRACTOR TO SUBMIT EROSION CONTROL PLAN TO THE CITY ENGINEER AND RECEIVE APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING.

**STORMWATER NPDES PERMIT (NOI) -** THE CONTRACTOR SHALL BE REPONSIBLE FOR OBTAINING A GENERAL PERMIT FROM THE FDEP FOR CONSTRUCTION ACTIVITIES ON THIS SITE.


A Full Service A & E Firm
5200 Belfort Road Jacksonville, FL 32256
(904) 730-7500
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| 6. | | | |
| 5. | | | |
| 4. | | | |
| 3. | WPO | 4-9-21 | PER COJ REVIEW COMMENTS |
| 2. | WPO | 1-15-21 | JEA/FDOT/CITY REVIEW COMMENTS |
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DESIGN ENGINEER
WADE P. OLSZEWSKI, P.E.
FLORIDA REGISTRATION NO. 54068

| | |
|---|---|
| DESIGNER: | WPO |
| DRAWN BY: | DLS |
| DATE: | MAY 2019 |
| CHECKED BY: | WPO/CDB |
| DATE: | MAY 2019 |

JEA Building Community sm

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
SITE PAVING, GRADING AND DRAINAGE PLAN

| | |
|---|---|
| PROJ. NO. | J6609 |
| DATE: | MAY 2019 |
| SCALE: | 1" = 10' |
| NO. SHEETS | 51 |
| SHEET NO. | 13 |
| DRAWING NO. | C-05 |

BID REVIEW

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Xrefs Attached= J6609 Border [J:\J6609\Civil\DWG\Design\J6609 Border.dwg]
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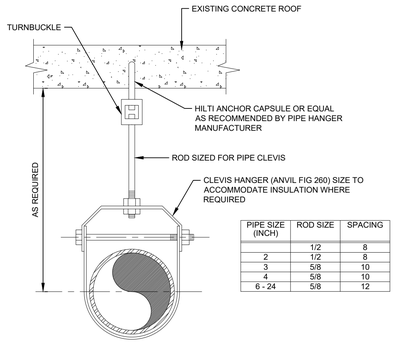
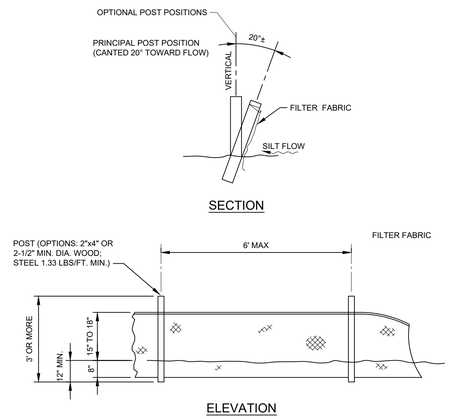
J6609 SURBASE [J:\J6609\Civil\DWG\Design\J6609 SURBASE.dwg]




| PIPE SIZE (INCH) | ROD SIZE | SPACING |
|---|---|---|
| | 1/2 | 8 |
| 2 | 1/2 | 8 |
| 3 | 5/8 | 10 |
| 4 | 5/8 | 10 |
| 6 - 24 | 5/8 | 12 |

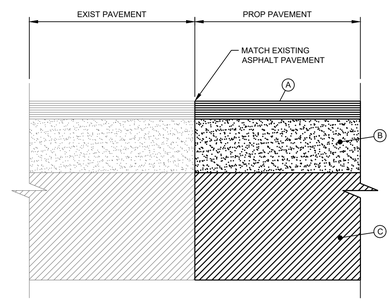
## PIPE HANGER DETAIL

SCALE: NONE




## TYPE III SILT FENCE

SCALE: NONE




LEGEND

(A) - 2" SP9.5 OR SP EQUIVALENT ASPHALT

(B) - 6" LIMEROCK BASE

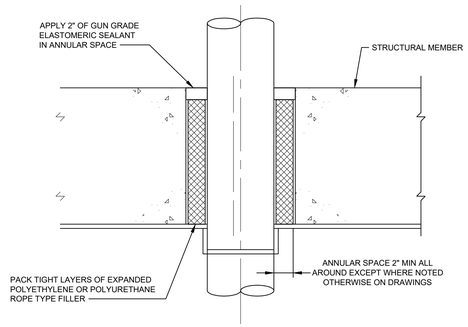
(C) - 12" STABILIZED SUB-GRADE

NOTES:

1. SEE SHEET C-04 FOR LOCATION OF ASPHALT PAVEMENT TO BE REPLACED.
2. IF REQUIRED, SLOPE PROPOSED ASPHALT PAVEMENT TO MATCH EXISTING PAVEMENT.

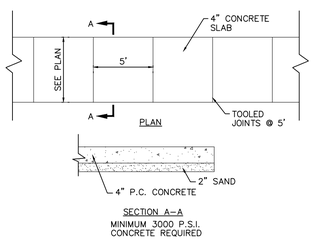
## ASPHALT DRIVE DETAIL

SCALE: NONE




## SLAB/WALL PENETRATION DETAIL

SCALE: NONE

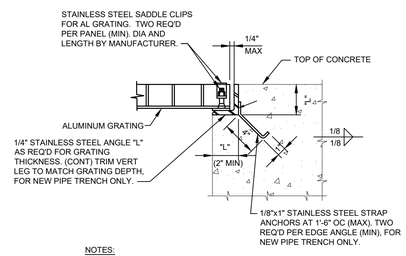



NOTES:

1. 3/4"x4" PREMOLDED EXPANSION MATERIALS AROUND P.P. OR OTHER STRUCTURES IN WALK.
2. EXPANSION JOINTS MAXIMUM DISTANCE = 100', USED 3/4"x4" PREMOLDED EXPANSION MATERIAL.
3. CONTRACTION JOINTS MAXIMUM DISTANCE = 21', SAW CUT 2" DEEP AND FILL WITH HOT POURED SEALER.
4. SAW CUT JOINTS WTHIN 24 HOURS.

## CONCRETE SIDEWALK DETAIL

N.T.S.

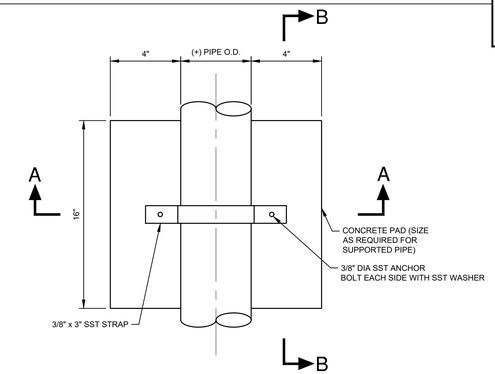


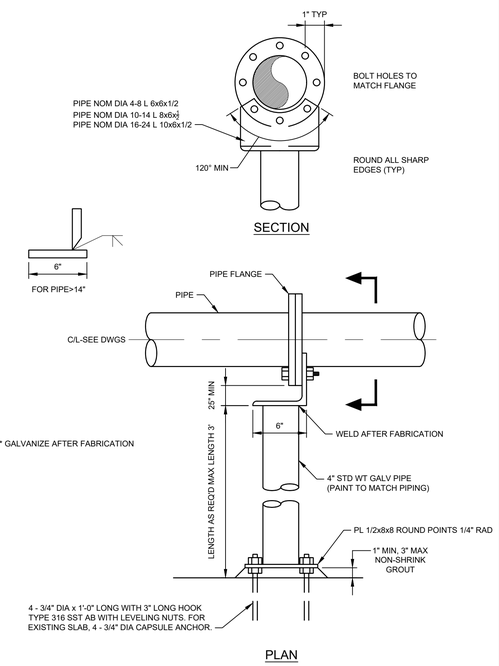

NOTES:

1. ALL DIMENSIONS ARE TO BE COORDINATED WITH GRATING MFR.
2. EXISTING FRAMES AND ANGLES IN THE EXISTING PIPE TRENCHES SHALL REMAIN IN PLACE.

## ALUMINUM GRATING EDGE DETAIL

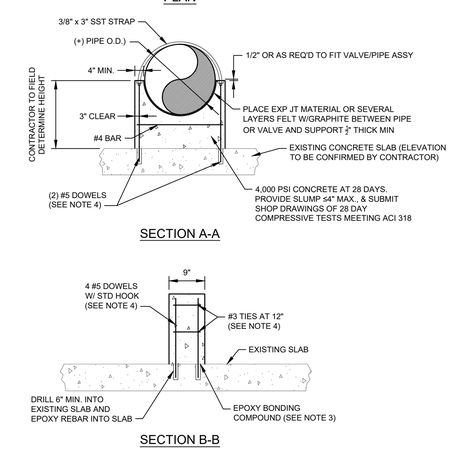
SCALE: NONE




## FLANGE PIPE SUPPORT DETAIL

SCALE: NONE

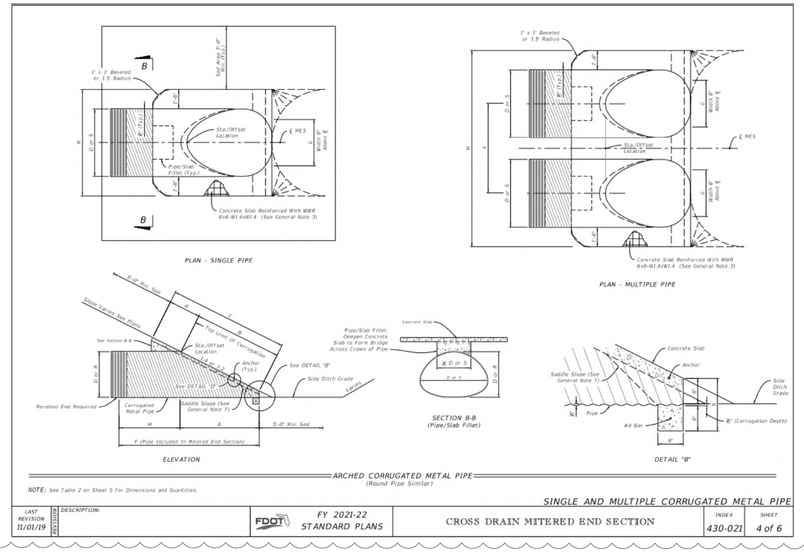



NOTES:

1. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR PIPE WHILE FORMING NEW PIPE SUPPORTS.
2. CONTRACTOR SHALL DETERMINE FINAL PIPE DIMENSIONS OF CONCRETE PIPE SUPPORT BASED ON EXISTING CONCRETE SLAB ELEVATIONS.
3. BONDING COMPOUND TO BE SIKADUR 32 HI-MOD, SIKA CHEMICAL CORP.; CONCRESIVE BY BASF; OR ENCO EPOXY 452 BY EUCLID CHEMICAL CO.
4. REINFORCEMENT SHALL CONFORM TO ASTM A615 OR A706, GRADE 60. TIE WIRE TO BE 16 GAUGE MIN.

## CRADLE PIPE SUPPORT DETAIL

SCALE: NONE

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| DRAWN BY: | DLV |
| DATE: | MAY 2019 |
| CHECKED BY: | WPO/CDB |
| DATE: | MAY 2019 |

JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
MECHANICAL DETAILS

| | |
|---|---|
| PROJ. NO. | J6609 |
| DATE: | MAY 2019 |
| SCALE: | N.T.S. |

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| NO. SHEETS | 57 |
| SHEET NO. | 14 |
| DRAWING NO. | C-06 |


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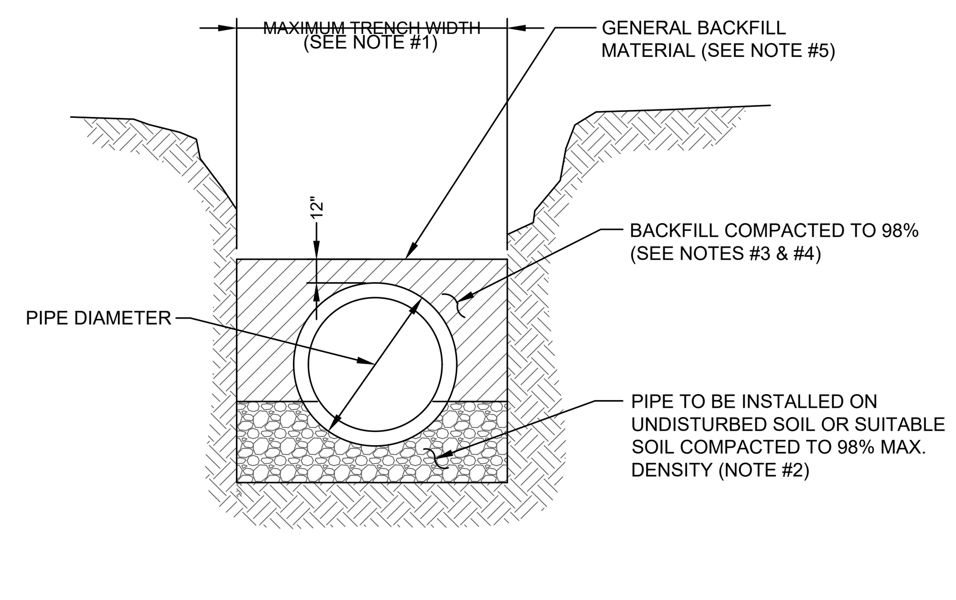
Xrefs Attached= J6609 Border [J:\J6609\Civil\DWG\Design\J6609 Border.dwg]



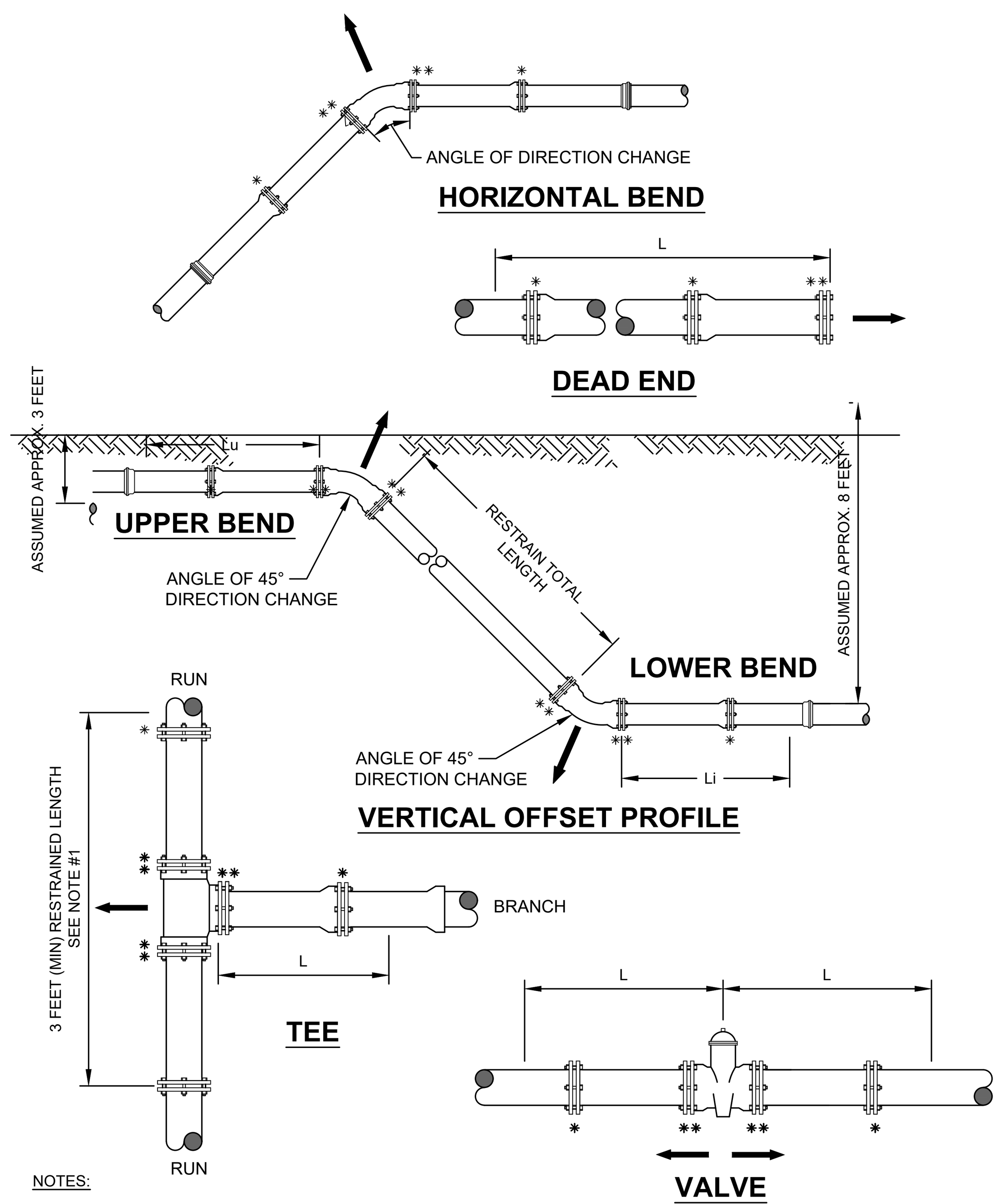

**TYPICAL TRENCH**

NOTES:

1. TRENCH SIDES SHALL BE APPROXIMATELY VERTICAL BETWEEN AN ELEVATION OF 1 FOOT ABOVE THE TOP OF THE PIPE AND THE CENTER LINE OF THE PIPE; OTHERWISE, TRENCH SIDES SHALL BE AS VERTICAL AS POSSIBLE OR AS REQUIRED BY OSHA STANDARDS. REFER TO THE MEASUREMENT AND PAYMENT SECTION (SECTION #801, PARAGRAPH #4)) TO DETERMINE MAXIMUM PAYLINE WIDTHS.
2. BELL HOLE SHALL BE DUG TO PERMIT THE ENTIRE STRAIGHT BARREL OF THE PIPE TO REST ON THE UNDISTURBED TRENCH BOTTOM. BOULDERS OR LOOSE ROCKS LARGER THAN 3/4 INCH IN SIZE WILL NOT BE PERMITTED IN BACKFILL UP TO 1 FOOT ABOVE THE TOP OF THE PIPE.
3. BACK FILL MATERIAL UP TO A LEVEL OF 1 FOOT OVER THE PIPE SHALL CONSIST OF AASHTO CLASS A-3 SOIL (SUITABLE SOIL) AND SHALL EXCLUDE CLAY MATERIALS AND LOOSE ROCKS LARGER THAN 3/4 INCH SIZE.
4. BACKFILL MATERIAL UP TO A LEVEL 1 FOOT OVER THE TOP OF PIPE OR BOTTOM OF STRUCTURES SHALL BE PLACED IN 6 INCH COMPACTED THICKNESS LAYERS AND SHALL BE COMPACTED TO 98% OF IT'S MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D1557.
5. SEE " EXCAVATION AND EARTHWORK", SECTION 408 FOR ADDITIONAL REQUIREMENTS INCLUDING REMOVAL AND REPLACEMENT OF UNSUITABLE SOILS, DEWATERING, COMPACTION REQUIREMENTS AND DENSITY TESTING OF COMPACTED SOILS.

## OPEN CUT TRENCH FOR PRESSURE PIPE

JANUARY 2019 — IN CITY RIGHT -OF-WAY — PLATE W-42

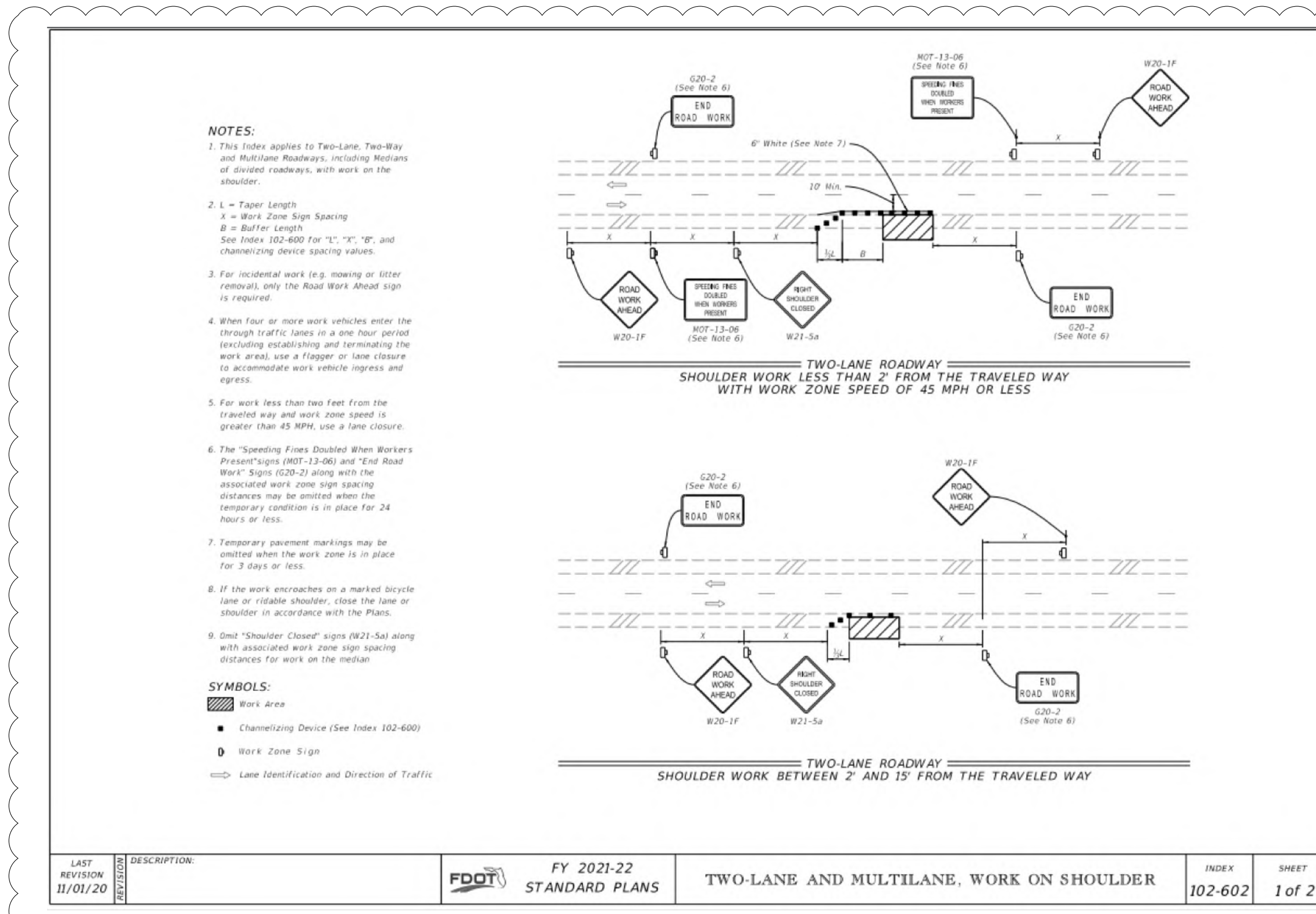


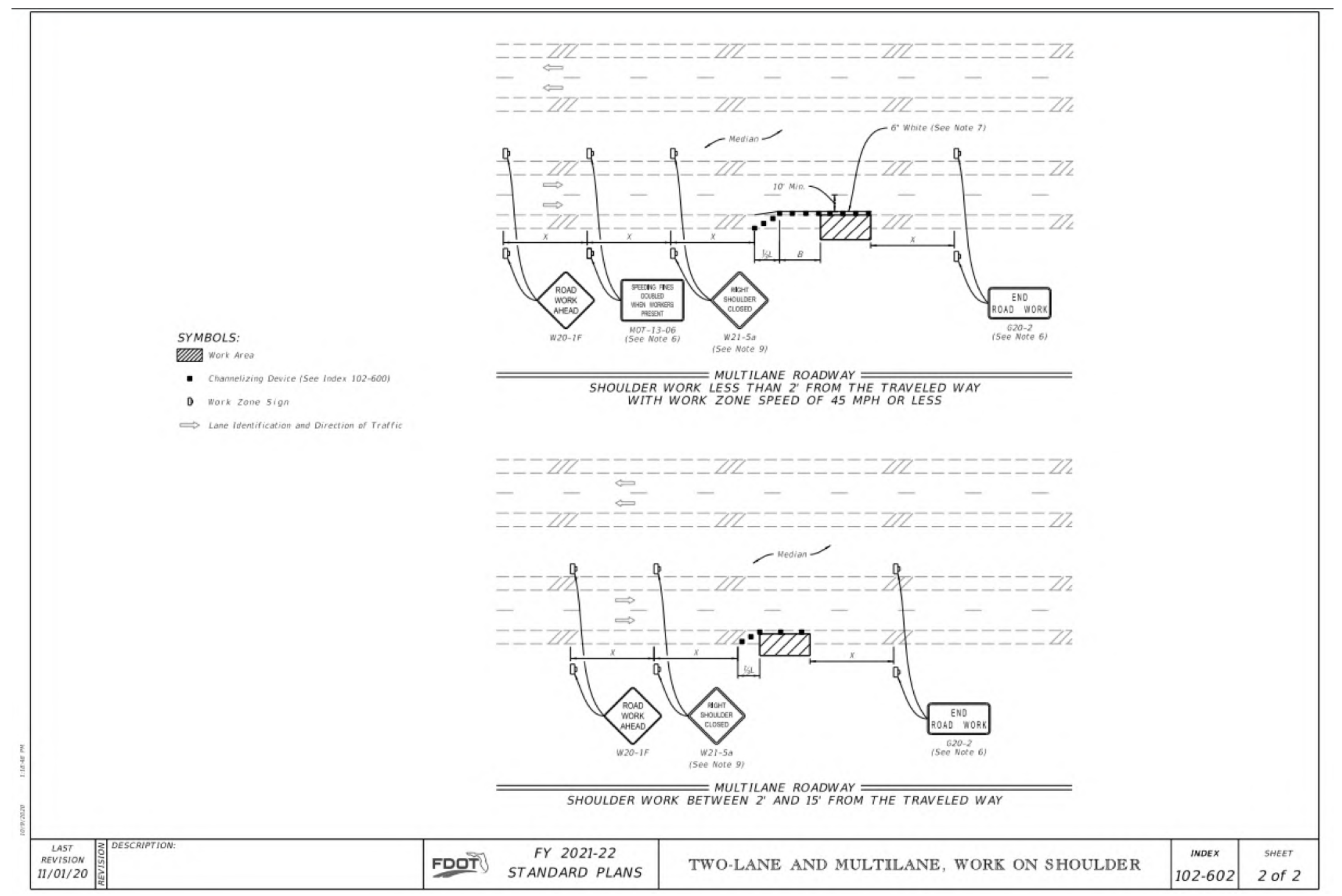

NOTES:

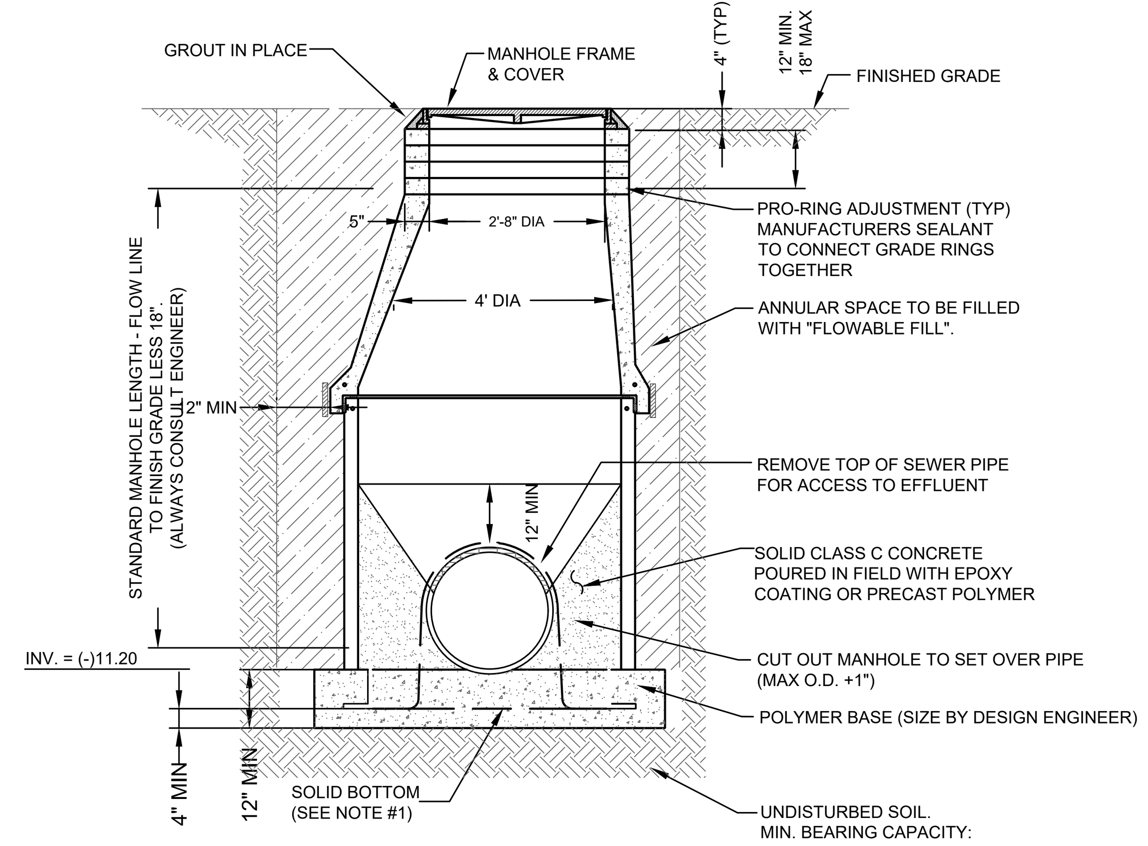
1. TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 6 FEET (MIN.). THE PROJECT ENGINEER CAN INCREASE THIS LENGTH TO REDUCE THE NUMBER OF RESTRAINS REQUIRED. ANY CHANGES TO THIS TABLE MUST BE SUMMITTED TO JEA FOR APPROVAL.
2. PAY ITEM "*" DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIC.
3. PAY ITEM "**" DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.

## MECHANICAL RESTRAINT DETAILS - II

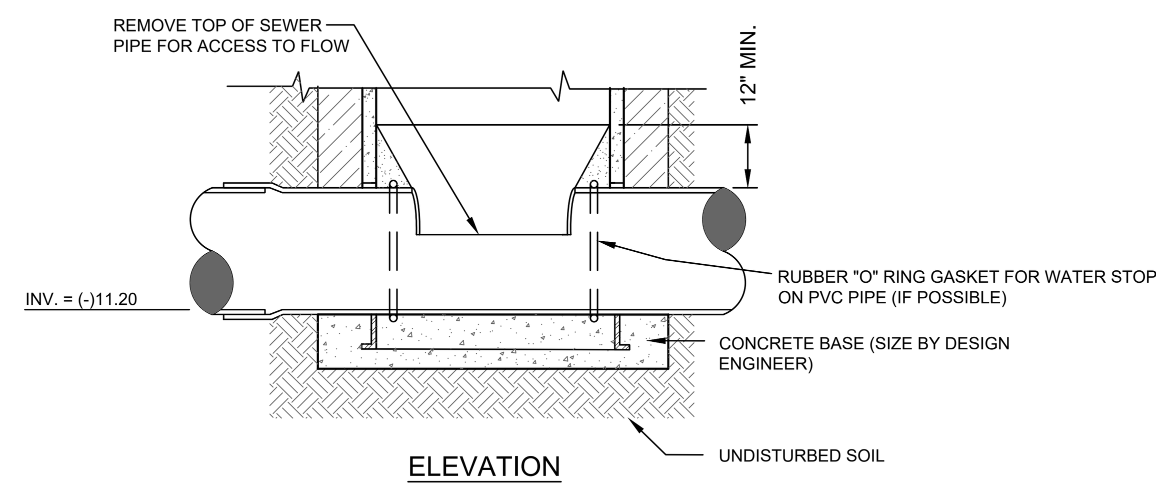
JANUARY 2019 — PLATE S-38D




SECTION VIEW



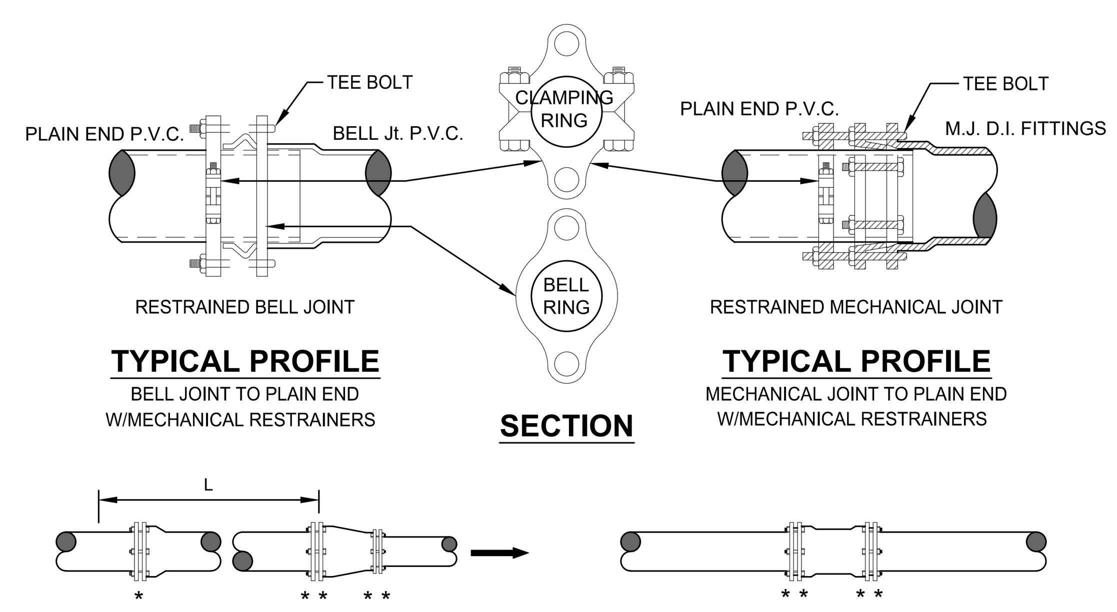

ELEVATION
(FOR SADDLE MANHOLE)

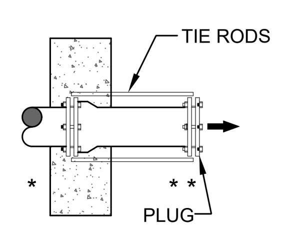
NOTES:

1. A STANDARD TYPE "A" MANHOLE SHALL INCLUDE A SOLID BOTTOM WITH 3" HOLD DOWN FLANGE.
2. CONCRETE BASE TO BE SIZE BY ENGINEER. THE MINIMUM SIZE IS SHOWN ABOVE.

## POLYMER "DOG HOUSE" MANHOLE

JANUARY 2019 — PLATE S-14A




NO. OF TIE RODS REQUIRED

| | |
|---|---|
| 3" - 8" | DIAMETER MAIN - 2 TIE RODS REQUIRED PER JOINT (3/4" ROD) |
| 10" - 12" | DIAMETER MAIN - 4 TIE RODS REQUIRED PER JOINT (3/4" ROD) |
| 14" - 16" | DIAMETER MAIN - 6 TIE RODS REQUIRED PER JOINT (3/4" ROD) |
| 18" - 20" | DIAMETER MAIN - 8 TIE RODS REQUIRED PER JOINT (3/4" ROD) |
| 24" | DIAMETER MAIN - 12 TIE RODS REQUIRED PER JOINT (3/4" ROD) |
| 30" - 36" | DIAMETER MAIN - 14 TIE RODS REQUIRED PER JOINT (1" ROD) |
| 42" - 48" | DIAMETER MAIN - 16 TIE RODS REQUIRED PER JOINT (1 1/4" ROD) |
| 54" | DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD) |

**DEAD - END THRUST COLLAR ANCHOR**

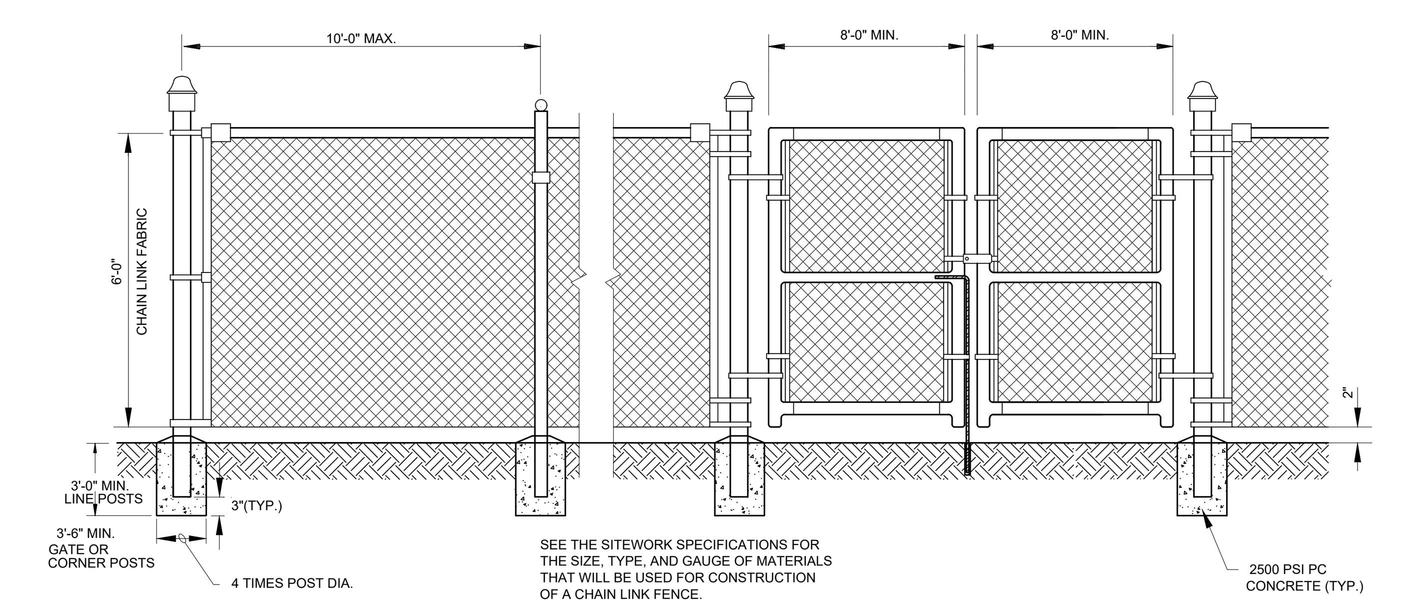
TO BE USED INSTEAD OF TOTAL RESTRAINED LENGTH (OPTIONAL) SIZE AS PER THRUST BLOCK DETAIL (W-38). SEE DETAILS W-36 & W-37.

GENERAL NOTE:

1. PAY ITEM " * " DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIS.
2. PAY ITEM " ** " DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.
3. ⟶ INDICATES DIRECTION OF THRUST FORCE.

## MECHANICAL RESTRAINT DETAILS - I

JANUARY 2019 — PLATE S-38C




CHAIN LINK FENCE W/ DOUBLE GATE
N.T.S.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JEA — Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
MECHANICAL DETAILS

| | |
|---|---|
| PROJ. NO. | J6609 |
| DATE: | MAY 2019 |
| SCALE: | N.T.S. |

NO. SHEETS 51 — SHEET NO. 15 — DRAWING NO. C-07

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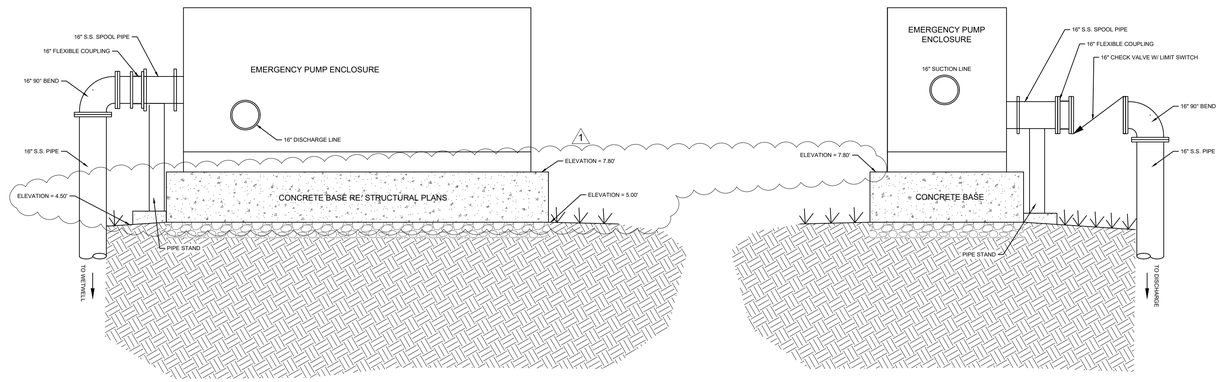


## EMERGENCY PUMP DETAIL

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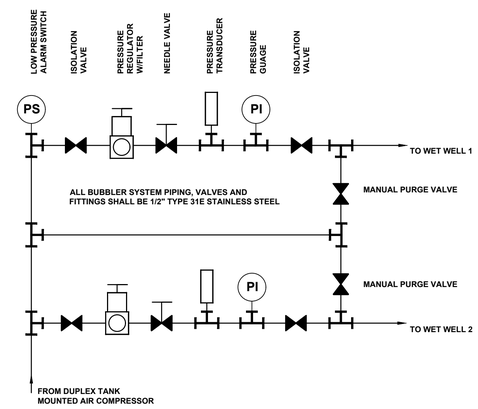
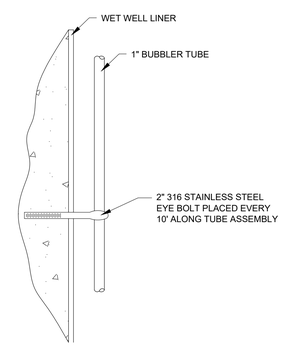



## BUBBLER SYSTEM PIPING DIAGRAM

N.T.S.




## BUBBLER TUBE SUPPORT

NOT TO SCALE

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JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
MECHANICAL DETAILS

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| DATE: | MAY 2019 |
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NO. SHEETS 51
SHEET NO. 16
DRAWING NO. C-08


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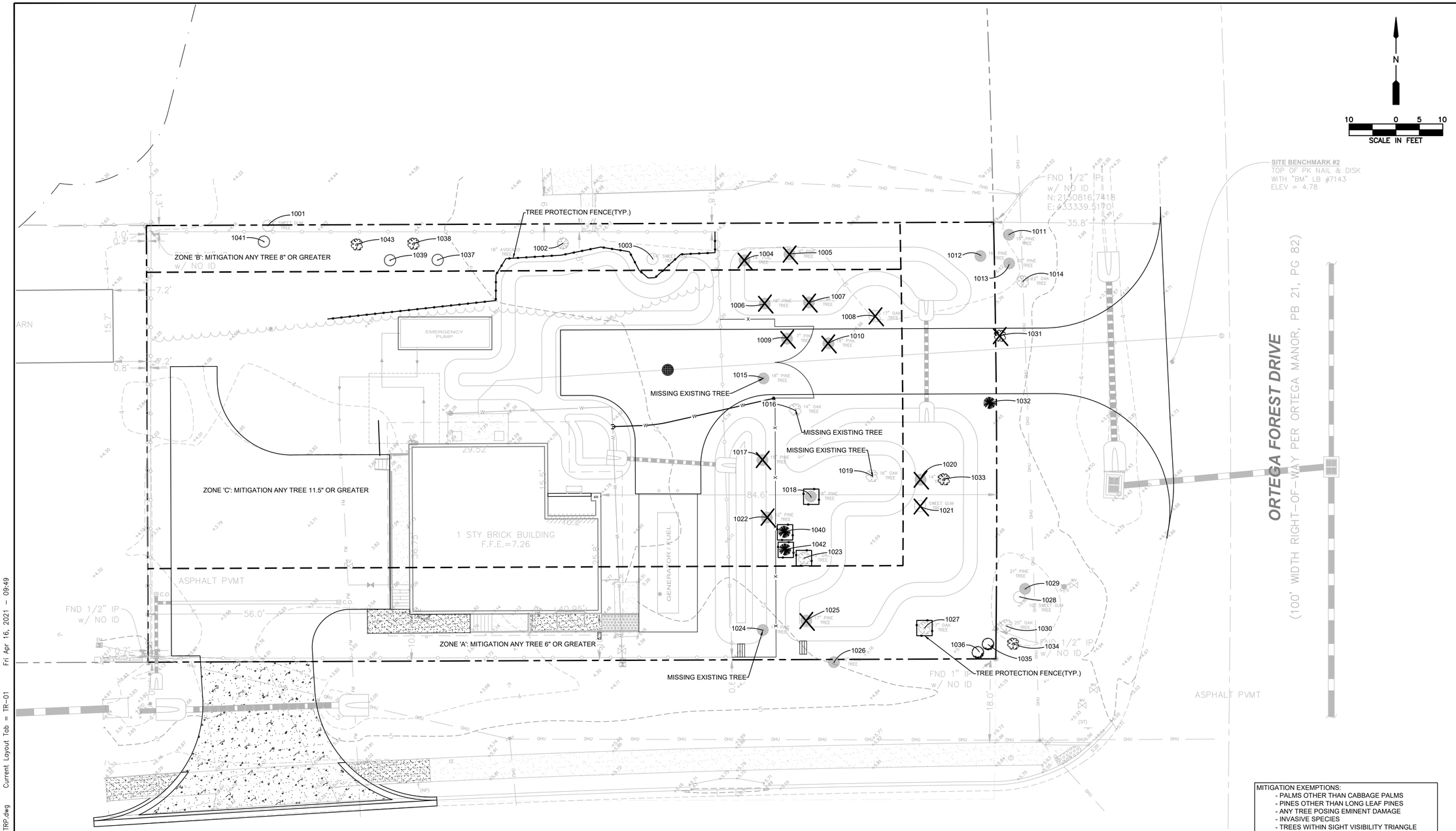


## S.R. No. 134 (104TH STREET)
## (TIMUQUANA ROAD)

(VARIABLE WIDTH RIGHT-OF-WAY)
(FDOT RIGHT OF WAY MAP, SECTION 72511-2601 (72220), DATED 9/11/70.
ASPHALT PVMT

TREE LEGEND

= TREE TO BE REMOVED

= TREE TO BE SAVED

MITIGATION EXEMPTIONS:
- PALMS OTHER THAN CABBAGE PALMS
- PINES OTHER THAN LONG LEAF PINES
- ANY TREE POSING EMINENT DAMAGE
- INVASIVE SPECIES
- TREES WITHIN SIGHT VISIBILITY TRIANGLE

MITIGATION REQUIREMENTS:
- LIVE OAKS 1:1 DBH REPLACEMENT
- ALL OTHER TREES 1:3 DBH REPLACEMENT EXCEPTIONAL HARDWOOD

REPLACEMENT TREES:
- REPLACEMENT FOR EXCEPTIONAL TREES OR LIVE OAKS 4" TREES, OTHER TREES 2"

D.B.H. REMOVED:
- 40.5"

D.B.H REPLACEMENT REQUIRED:
- 40.5 / 3 = 13.5

D.B.H. REPLACEMENT PROPOSED:
- 14"

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CHECKED BY: JKW
DATE: JANUARY 2021

JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
TREE REMOVAL PLAN

PROJ. NO. J6609
DATE: MAY 2019
SCALE: 1" = 10'

NO. SHEETS 51
SHEET NO. 17
DRAWING NO. TR-01

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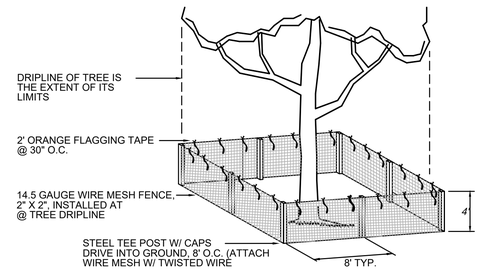
| TREE LIST | | | | | | |
|---|---|---|---|---|---|---|
| NUMBER | NAME | D.B.H. | STATUS | CONDITION | ZONE | CREDIT |
| 1001 | AVOCADO TREE | 15" | REMAIN | GOOD | B | 4 |
| 1002 | PIGNUT HICKORY | 21" | REMAIN | GOOD | B | 4 |
| 1003 | SWEET GUM | 15" | REMAIN | GOOD | B | 4 |
| 1004 | SLASH PINE | 7" | REMOVE | GOOD | B | NA |
| 1005 | SLASH PINE | 18.5" | REMOVE | GOOD | B | NA |
| 1006 | SLASH PINE | 14.5" | REMOVE | GOOD | C | NA |
| 1007 | SLASH PINE | 10" | REMOVE | GOOD | C | NA |
| 1008 | WATER OAK | 17" | REMOVE | GOOD | C | NA |
| 1009 | SLASH PINE | 6" | REMOVE | GOOD | C | NA |
| 1010 | SLASH PINE | 18.5" | REMOVE | GOOD | C | NA |
| 1011 | SLASH PINE | 22.5" | OFFSITE | GOOD | A | NA |
| 1012 | SLASH PINE | 16" | REMAIN | GOOD | A | NA |
| 1013 | SLASH PINE | 20" | OFFSITE | GOOD | A | NA |
| 1014 | WATER OAK | 23" | OFFSITE | GOOD | A | NA |
| 1015 | PINE | 18" | MISSING | | C | NA |
| 1016 | OAK | 14" | MISSING | | C | 4 |
| 1017 | SLASH PINE | 18.5" | REMOVE | GOOD | C | NA |
| 1018 | WATER OAK | 15" | REMAIN | FAIR | C | 4 |
| 1019 | OAK | 16" | MISSING | | C | 4 |
| 1020 | WATER OAK | 16.5" | REMOVE | GOOD | A | NA |
| 1021 | SWEET GUM | 7" | REMOVE | | A | NA |
| 1022 | SLASH PINE | 15.5 | REMOVE | GOOD | C | NA |
| 1023 | WATER OAK | 15.5" | REMAIN | FAIR | C | 4 |
| 1024 | PINE | 17" | MISSING | | A | NA |
| 1025 | SLASH PINE | 17" | REMOVE | GOOD | A | NA |
| 1026 | SLASH PINE | 16" | REMAIN | GOOD | A | NA |
| 1027 | BLACK CHERRY | 3" | REMAIN | GOOD | A | 1 |
| 1028 | SWEET GUM | 11" | OFFSITE | GOOD | A | NA |
| 1029 | SLASH PINE | 21" | OFFSITE | GOOD | A | NA |
| 1030 | LAUREL OAK | 26" | OFFSITE | GOOD | A | NA |
| 1031 | OLEANDER | 3.5" | REMOVE | | A | NA |
| 1032 | SLASH PINE | 16" | REMAIN | GOOD | A | NA |
| 1033 | BLACK CHERRY | 3" | REMAIN | GOOD | A | 1 |
| 1034 | WATER OAK | 17" | OFFSITE | GOOD | A | NA |
| 1035 | PERSIMMON | 4" | REMAIN | GOOD | A | 2 |
| 1036 | PERSIMMON | 4" | REMAIN | GOOD | A | 2 |
| 1037 | SWEET GUM | 6" | REMAIN | GOOD | B | 3 |
| 1038 | CHERRY LAUREL | 2" | REMAIN | INVASIVE | B | NA |
| 1039 | SWEET GUM | 23" | REMAIN | | B | 4 |
| 1040 | CHERRY LAUREL | 4" | REMAIN | INVASIVE | B | NA |
| 1041 | SWEET GUM | 13" | REMAIN | GOOD | B | 4 |
| 1042 | SLASH PINE | 12" | REMAIN | GOOD | B | NA |
| 1043 | VIBURNUM | 5" | REMAIN | | B | NA |
| | | | | TOTAL CREDITS | | 45 |




## TEMPORARY TREE PROTECTION DETAIL

N.T.S.

TREE PROTECTION NOTES:

1. Four (4) foot high solid orange construction fencing shall be installed encompassing the drip line of each tree, or one foot in diameter for each inch of trunk diameter, whichever is greater. When surveyed fencing shall be moved to the edge of the tree protection area (TPA) as indicated on plans and be maintained through completion of construction.
2. Where the TPA occurs within 10 feet of the tree trunk, a trenching device shall be used to sever tree roots. Root raking shall not occur before roots have been clearly severed.
3. All equipment and/or materials are prohibited within the TPA. Including but not limited to cement wash-out, chemicals, fuel or equipment servicing.
4. Grade changes shall not occur within the TPA. No fill shall be added, removed or stored within the TPA with exception of prescribed potting soil (see item 10).
5. Brush and weeds occuring within the TPA shall be cleared by hand or utilizing only the mower of a light wheeled farm tractor (less than 60 hp). During such activities soil profiles shall not be disturbed.
6. Roto-tilling, disking, root raking or other clearing methods that disturb the soil profile are expressly prohibited.
7. Utility lines and/or irrigation lines shall not occur within the TPA.
8. Saved trees shall be pruned to remove dead and damaged wood, correct structural defects and to provide access and visibility.
9. Pruning shall be completed under direct observation by the Designated Forester of CPH Engineers, Inc. or owner designated ISA certified arborist and be accomplished by an arborist with five years or more experience pruning live oaks to ISA standards. Arborist must obtain approval from the owner prior to commencement of pruning activities. Two week advance notification is required.
10. Landscaping within TPA shall not disturb existing soil profiles. Eight inches of potting soil shall be imported and evenly spread to provide a planting medium within TPA.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DESIGNER: JKW
DRAWN BY: ADA
DATE: JANUARY 2021
CHECKED BY: JKW
DATE: JANUARY 2021

JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
TREE REMOVAL NOTES AND DETAILS

PROJ. NO. J6609
DATE: MAY 2019
SCALE: 1" = 10'

NO. SHEETS 51
SHEET NO. 18
DRAWING NO. TR-02

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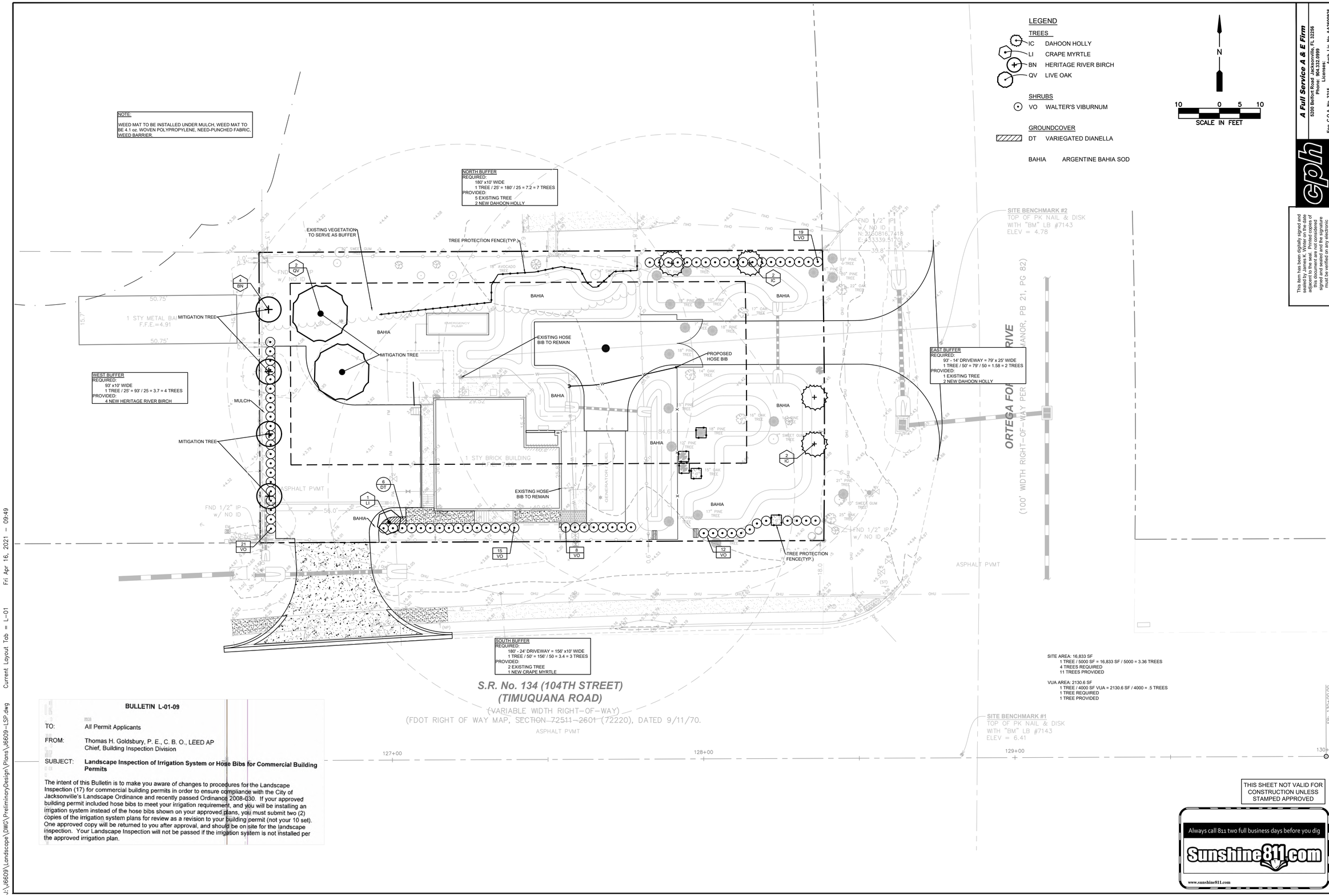


SITE AREA: 16,833 SF
1 TREE / 5000 SF = 16,833 SF / 5000 = 3.36 TREES
4 TREES REQUIRED
11 TREES PROVIDED

VUA AREA: 2130.6 SF
1 TREE / 4000 SF VUA = 2130.6 SF / 4000 = .5 TREES
1 TREE REQUIRED
1 TREE PROVIDED

**BULLETIN L-01-09**

TO: All Permit Applicants

FROM: Thomas H. Goldsbury, P. E., C. B. O., LEED AP
Chief, Building Inspection Division

SUBJECT: **Landscape Inspection of Irrigation System or Hose Bibs for Commercial Building Permits**

The intent of this Bulletin is to make you aware of changes to procedures for the Landscape Inspection (17) for commercial building permits in order to ensure compliance with the City of Jacksonville's Landscape Ordinance and recently passed Ordinance 2008-030. If your approved building permit included hose bibs to meet your irrigation requirement, and you will be installing an irrigation system instead of the hose bibs shown on your approved plans, you must submit two (2) copies of the irrigation system plans for review as a revision to your building permit (not your 10 set). One approved copy will be returned to you after approval, and should be on site for the landscape inspection. Your Landscape Inspection will not be passed if the irrigation system is not installed per the approved irrigation plan.

THIS SHEET NOT VALID FOR CONSTRUCTION UNLESS STAMPED APPROVED

Always call 811 two full business days before you dig
Sunshine811.com
www.sunshine811.com

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JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
LANDSCAPE PLAN

PROJ. NO. J6609
DATE: MAY 2019
SCALE: 1" = 10'
NO. SHEETS 51
SHEET NO. 19
DRAWING NO. L-01

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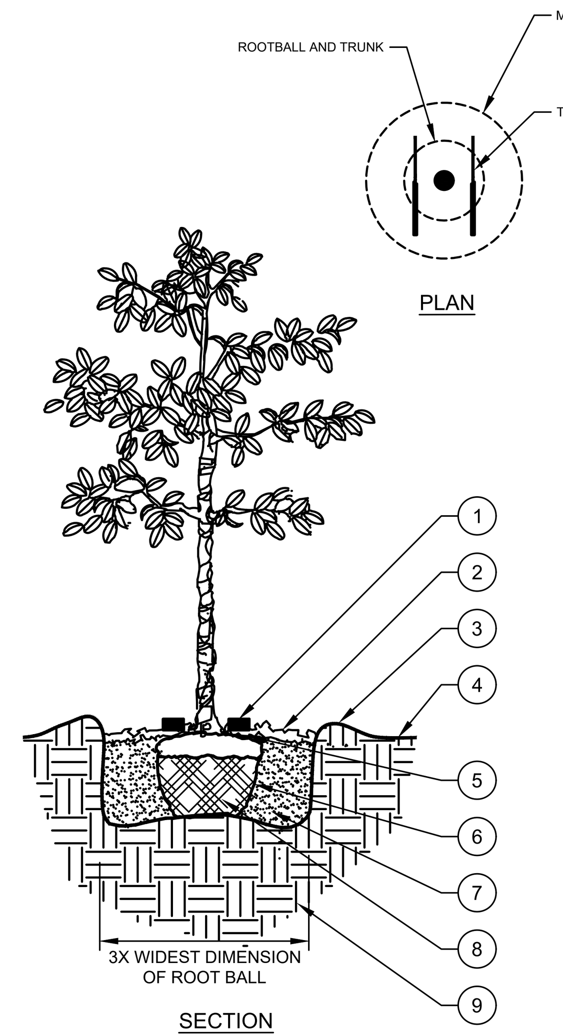
## LANDSCAPE NOTES:

1. The landscape Contractor shall be responsible for all materials and all work as called for on the Landscape Plans and in the Landscape Specifications. In the event of variation between quantities shown on plant list and the plans, the plans shall control. The Landscape Contractor shall verify all quantities and report any discrepancies at the time of bidding.
2. The Landscape Contractor shall review architectural/engineering plans and become thoroughly familiar with surface and subsurface utilities.
3. Prior to construction, the contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the course of the work. Locations of existing buried utility lines shown on the plans are based upon best available information and are considered to be approximate. It shall be the responsibility of the contractor 1) to verify the locations of utility lines within and adjacent to the work area 2) to protect all utility lines during the construction period 3) to repair any and all damage to utilities, structures, site appurtenances, etc. which occurs as a result of the construction 4) To field adjust the location of proposed trees and palms 10' off the center of the utility lines. Notify the Landscape Architect if a 10' offset does not function.
4. The work shall be coordinated with other trades to prevent conflicts. Coordinate the planting with the irrigation work to ensure availability and proper location of irrigation items and plants.
5. Contractor shall ensure that there are no visual obstructions to vehicle lines of sight and traffic controls. Contractor shall field adjust tree and/or large shrub locations to avoid any such obstructions.
6. Trees shall be maintained by the owner to avoid future such obstructions by pruning trees and/or shrubs as necessary utilizing horticulturally sound techniques.
7. All planting shall be performed by personnel familiar with planting procedure and under the supervision of a qualified planting foreman.
8. All plant material shall be graded Florida No. 1 or better as outlined under Grades and Standards for Nursery Stock, Part I and II, published by the Florida Department of Agriculture and Consumer Services.
9. The minimum acceptable size of all plants, measured after pruning, with branches in normal positions, shall conform to the measurements specified on the plant list or as indicated on the landscape drawing. Height and spread dimensions refer to main body of the plant and not extreme branch tip to tip. Trunk caliper (trunk diameter) is measured 6 inches from the ground on trees up to and including 4 inches in caliper, and 12 inches from the ground for larger trees. Since trunks are seldom round, the average of the largest diameter and that perpendicular to it is referred to as caliper. When the plant list description calls out DBH or caliper at DBH, it shall govern over the caliper definition in this note.
10. The Landscape Architect or Owner shall have the right, at any stage of the operations, to reject any and all work and materials which, in his opinion, do not meet with the requirements of these specifications.
11. Except as otherwise specified, the Landscape Contractor's work shall conform to accepted horticultural practices as used in the trade.
12. Plants shall be protected upon arrival at the site, by being thoroughly watered and properly maintained until planted.
13. TOPSOIL

    Topsoil shall be natural, friable, fertile, fine loamy soil possessing characteristics of representative topsoil in the vicinity that produces heavy growth. Topsoil shall have a pH range of 5.5 to 7.4, free from subsoil, objectionable weeds, litter, sods, stiff clay, stones larger than 1-inch in diameter, stumps, roots, trash, toxic substances, or any other material which may be harmful to plant growth or hinder planting operations. Top soil shall contain a minimum of three percent organic material. 6'' Top Soil shall be placed in all turf & landscape areas.
14. All tree pits shall be excavated to size and depth in accordance with the Florida Grades & Standards for Nursery Stock, unless shown otherwise on the drawings, and backfilled with the specified planting soil. The Landscape Contractor shall test fill all tree pits with water before planting to assure proper drainage percolation is available.
15. The Landscape Contractor shall be responsible for proper watering of all plants. All plants shall be thoroughly watered at time of planting and kept adequately watered for plants to thrive as defined by Florida Grades and Standards for Nursery stock until time of acceptance. It shall be the Landscape Contractor's responsibility to assure that plants are not over watered.
16. It shall be the Landscape Contractor's responsibility to prevent plants from falling or being blown over, to re-straighten and replant all plants which lean or fall and to replace all plants which are damaged due to lack of proper guying or staking. The Landscape Contractor shall be legally liable for any damage caused by instability of any plant material.
17. All Palms to be staked as indicated per Palm staking details. All other trees to be stabilized utilizing 8' lodge poles per tree planting details.
18. Plants blown over by high winds, within the guaranteed period, shall not be cause for additional expense to the Owner, but shall be the responsibility of the Landscape Contractor. Damaged plants shall be replaced by the Landscape Contractor at no additional cost to the Owner.
19. Sod shall be of a species specified on the drawings and originate from a commercial turf grower, whose farm is free of muck soils. Muck grown sod will not be approved. It shall be a dense stand of live turf, reasonably free of weeds, well matted with grass roots in rectangles 12 inch by 24 inch or in 12 inch wide rolls in a length consistent with the equipment and methods used to handle the rolls and place the sod. Any netting contained within the sod shall be certified by the manufacturer to be bio-degradable. The soil and root mat shall be a minimum of 1-1/2 inch thick and must hold together during placement. Sod shall be place adjacent to one another to avoid gaps and overlaps. Joints shall be staggered between the rows. Sod placed on slopes exceeding 3:1 shall be pinned with turf staples. Sod turf, shall have been mowed a minimum of one week prior to cutting and delivery, so that the length of the turf is no longer than 4 inches at time of delivery. Place sod within 48 hours of cutting the sod. The sod shall be kept moist throughout the 48 hour period to maintain the health and viability of the sod. Submit a letter of certification to the Owner's CEI Representative, at time of delivery, as to the source of the sod, the time it was cut, the species and cultivars provided, last mowing date, and that the sod is free of fire ants. Sod which has been cut for longer than 48 hours after being cut shall not be used unless specifically authorized by Owner's CEI Representative.
20. It shall be the Contractor's responsibility to measure and determine the exact quantity of sod required for a complete job at the time of bidding or providing a price quote. The Owner shall not be responsible for additional cost due to the Contractor's under estimating of the quantity of sod for the original bid area.
21. The Landscape Contractor shall insure adequate vertical drainage in all plant beds, planters, and sod areas. Vertical drilling through any compacted fill to native soil shall be accomplished to insure drainage. If well drained fill is necessary to assure positive drainage, this issue shall be brought up by the Landscape Contractor at time of bidding.
22. UNSUITABLE SUBSOILS
    Locations containing unsuitable subsoil shall be treated by one or more of the following:
    A. Where unsuitability is deemed by Owner or Owner's Representative to be due to excessive compaction caused by heavy equipment and where natural subsoil is other than AASHTO classification of A6 or A7, loosen such areas with spikes, discing, or other means to loosen soil to condition acceptable to Owner. Loosen soil to minimum depth of 12 inches with additional loosening as required to obtain adequate drainage. Contractor may introduce peat moss, sand, or organic matter into the subsoil to obtain adequate measures shall be considered as incidental, without additional cost to Owner.
    B. Where unsuitability is deemed by Owner or Owner's Representative to be due to presence of boards, mortar, concrete, graded aggregate base, or other construction materials in sub grade and where natural subsoil is other than AASHTO classification of A6 or A7, remove debris and objectionable material. Such remedial measures shall be considered as incidental, without additional cost to Owner.
    C. Where unsuitability is deemed by Owner to be because natural subsoil falls into AASHTO classification of A6 or A7 and contains moisture in excess of 30 percent, then installation of sub drainage system or other means described elsewhere in Specifications shall be used. Where such conditions have not been known or revealed prior to planting time and they have not been recognized in preparation of The Drawings and Specifications, then Owner shall issue pricing order to install proper remedial measures.
    D. Planting beds where existing subsoil is determined by Owner to be unsuitable for plant growth in accordance paragraph Unsuitable Subsoil herein shall be excavated to a depth of 12 inches or as needed to provide adequate drainage. Replace excavated soil with planting soil.
23. The Landscape Contractor shall ensure that his work does not interrupt established or projected drainage patterns.
24. The Landscape Contractor shall prune, shape and remove dead foliage/limbs from existing plant material to remain. Confirm with the Landscape Architect or Owner the extent of work required at time of Bidding.
25. Mulch - All plant beds shall be top dressed with 3" shredded hardwood mulch (or approved equal). Cypress mulch not permitted. A 5' diameter mulch ring is to be placed around trees located in sod areas or outside of planting beds.
26. Transplanted Material - The Landscape Contractor shall be responsible for determining and evaluating which plant materials are suitable for transplanting and shall verify this with the Landscape Architect or Owner. The Landscape Contractor shall take all reasonable, horticulturally acceptable measures to assure the successful transplanting of determined plant materials. The Landscape Contractor shall be responsible for replacing any relocated plant materials which die if such measures are not taken, as determined by the Landscape Architect or Owner. Replacement plants shall be of identical species and size if required.
27. MAINTENANCE PRIOR TO FINAL INSPECTION AND ACCEPTANCE:
    A. Maintenance shall commence after each plant is planted and the maintenance period shall continue until the job or specific phase of the job is accepted by the Landscape Architect or Owner. Extreme care shall be taken to instruct the Owner or his representatives in general maintenance procedures.
    B. Plant maintenance shall include watering, pruning, weeding, cultivating, mulching, tightening, and repairing of guys, replacement of sick or dead plants, resetting plants to proper grades or upright positions and restoration of the planting saucer and all other care needed for proper growth of the plants.
    C. During the maintenance period and up to the date of final acceptance, the Landscape Contractor shall do all seasonal spraying and/or dusting of trees and shrubs. Upon completion of all planting, an inspection for acceptance of work will be held. The Landscape Contractor shall notify the Landscape Architect or Owner for scheduling of the inspection 10 days prior to the anticipated date.
    D. At the time of the inspection, if all of the materials are acceptable, a written notice will be given by the Landscape Architect or Owner to the Landscape Contractor Stating the date when the Maintenance Period ends.

GUARANTEE AND REPLACEMENT:

A. All plant materials shall be guaranteed for one (1) year from the time of final inspection and interim acceptance shall be alive and in satisfactory growth for each specific kind of plant at the end of the guaranteed period.
B. At the end of the guarantee period, any plant required under this contract that is dead or not in satisfactory growth, as determined by the Owner or the Landscape Architect, shall be removed and replaced. Replacement plants shall have an extended guarantee, as noted above, from time of replacement.
C. All replacements shall be planted of the same kind and size as specified on the plant list. They shall be the responsibility of the Landscape Contractor.




NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
C. REFER TO LANDSCAPE NOTES OR PLANTING SPECIFICATIONS SECTION 32 9100 FOR THE TYPE OF MULCH MATERIAL TO USE.
D. PRUNE TREE AS DIRECTED BY LANDSCAPE ARCHITECT.
E. BRANCHING HEIGHT TO A.A.N. STANDARDS.

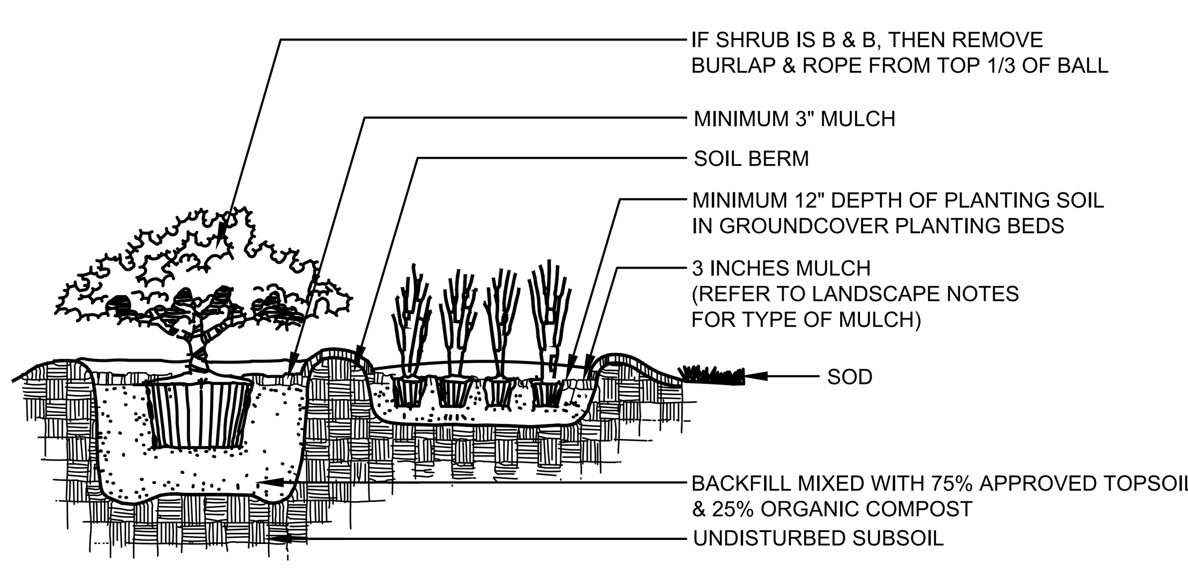
1. **Tree Frog® RBK40pt** FOR UP TO 4" TREE CALIPER OR **Tree Frog® RBK60pt** FOR GREATER THAN 4" AND UP TO 6" TREE CALIPER. REFER TO SITEWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS.
2. ROOT BALL MODIFIED AS REQUIRED. 3" LAYER OF MULCH. NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL. (REFER TO SPECIFICATIONS FOR MULCH).
3. ROUND-TOPPED SOIL BERM 4" HIGH X 8" WIDE ABOVE ROOT BALL SURFACE SHALL BE CONSTRUCTED AROUND THE ROOT BALL. BERM SHALL BEGIN AT ROOT BALL PERIPHERY.
4. FINISHED GRADE.
5. TOP OF ROOT BALL SHALL BE FLUSH WITH FINISHED GRADE.
6. PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE TREE. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL.
7. LOOSENED SOIL. DIG AND TURN THE SOIL TO REDUCE COMPACTION TO THE AREA AND DEPTH SHOWN. BACKFILL MIX: TOPSOIL 75% AND COMPOST 25%.
8. BOTTOM OF ROOT BALL RESTS ON EXISTING OR RECOMPACTED SOIL.
9. UNDISTURBED SUBSOIL.

SMALL TREE PLANTING
(14' OR LESS)
N.T.S.

PLANT LIST

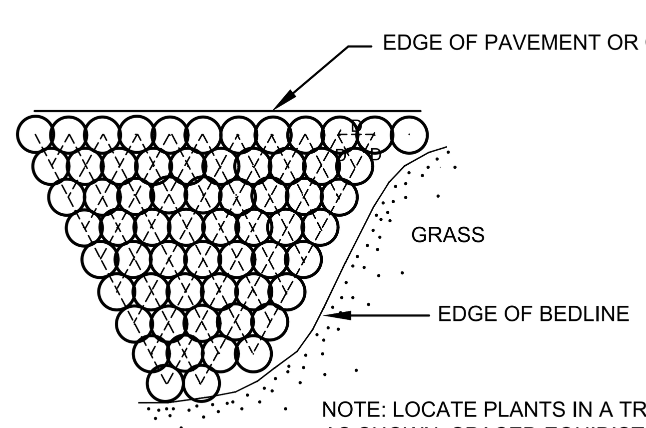
| SYM | COMMON NAME | BOTANICAL NAME | DESCRIPTION | QTY. |
|---|---|---|---|---|
| TREES | | | | |
| IC | DAHOON HOLLY | ILEX CASSINE | 2" CAL., 10' MIN. HT., 3' SPRD. | 4 |
| LI | CRAPE MYRTLE | LAGERSTROEMIA INDICA | 3" CAL., 10' MIN. HT., 6' SPRD. | 1 |
| BN | HERITAGE RIVER BIRCH | BETULA NIGRA 'HERITAGE' | 2" CAL., 10' MIN. HT., 5' SPRD. | 4 |
| QV | LIVE OAK | QUERCUS VIRGINIANA | 3" CAL., 10' MIN. HT., 5' SPRD. | 2 |
| SHRUBS | | | | |
| VO | WALTER'S VIBURNUM | VIBURNUM OBOVATUM | 24" MIN. HT., 15" MIN. SPRD., 3" O.C. | 75 |
| GROUNDCOVER | | | | |
| DT | VARIEGATED DIANELLA | DIANELLA TASMANICA | 1 GAL., 3 PPP, 18" O.C. | 6 |
| BAHIA | ARGENTINE BAHIA SOD | PASPALUM NOTATUM 'ARGENTINE' | SOLID SOD, CONTRACTOR TO VERIFY QTY. | |

NOTE:
1. PLANT DESCRIPTIONS ARE FOR MINIMUM ACCEPTABLE SPECIFICATIONS. ALL CRITERIA LISTED FOR CONTAINER SIZE, CALIPER, HEIGHT, SPREAD, ETC. MUST BE MET FOR PLANT MATERIAL ACCEPTANCE. FOR EXAMPLE, IF A THREE GALLON SHRUB DOES NOT MEET THE HEIGHT OR SPREAD SPECIFICATION, IT WILL NOT BE ACCEPTED.
2. IF SPECIFIED PLANTS ARE UNAVAILABLE AT TIME OF CONSTRUCTION, CONTRACTOR MAY REPLACE SPECIFIED PLANTS WITH PLANTS APPROVED BY LANDSCAPE ARCHITECT AND CITY STAFF.
3. ALL OPEN SPACE AREAS WITHIN THE PROPERTY SHALL BE SODDED UNLESS PAVED, SEEDED AND MULCHED OR PLANTED WITH SHRUBS AND GROUND COVER.
4. ALL LANDSCAPED AREAS WILL BE 100% IRRIGATED WITH A CENTRAL AUTOMATIC IRRIGATION SYSTEM INCLUDING A RAIN SENSOR.
5. CONTRACTOR TO MODIFY EXISTING IRRIGATION SYSTEM TO ENSURE ADEQUATE IRRIGATION FOR ALL NEW PLANT MATERIAL.
6. CONTRACTOR SHALL REPLACE ANY EXISTING SOD OR OTHER PLANT MATERIALS DAMAGED DURING CONSTRUCTION IN AREAS THAT ARE OUTSIDE PROPOSED LANDSCAPE AS SHOWN ON THE PLAN.



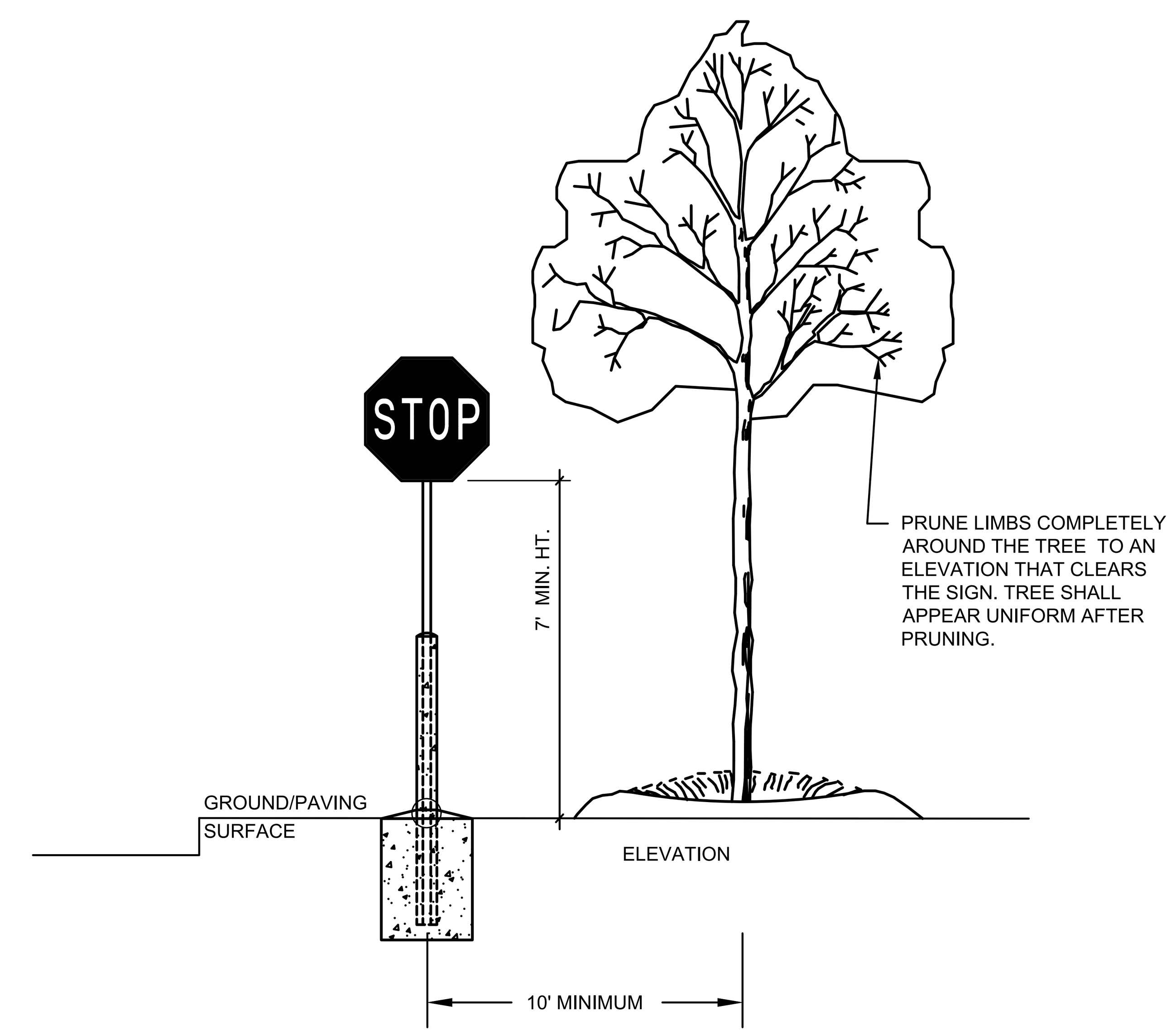

-PROVIDE MINIMUM PIT CLEARANCE AROUND ROOT BALL OF 6" SIDES AND BOTTOM.
-MAINTAIN 3"-4" MULCH FREE ZONE AROUND BASE OF PLANT.

**SHRUB AND GROUNDCOVER PLANTING DETAIL**
N.T.S.




NOTE: LOCATE PLANTS IN A TRIANGULAR PATTERN AS SHOWN, SPACED EQUIDISTANT FROM EACH OTHER (AT SPACING SPECIFIED IN THE PLANT LIST).

**SHRUB/GROUNDCOVER SPACING PLAN**
N.T.S.




ALL TREES TO BE PLANTED NO CLOSER THAN 10' IN ALL DIRECTIONS FROM ANY TRAFFIC SIGNS

**TREE PLANTING AT TYPICAL SIGN**
N.T.S.

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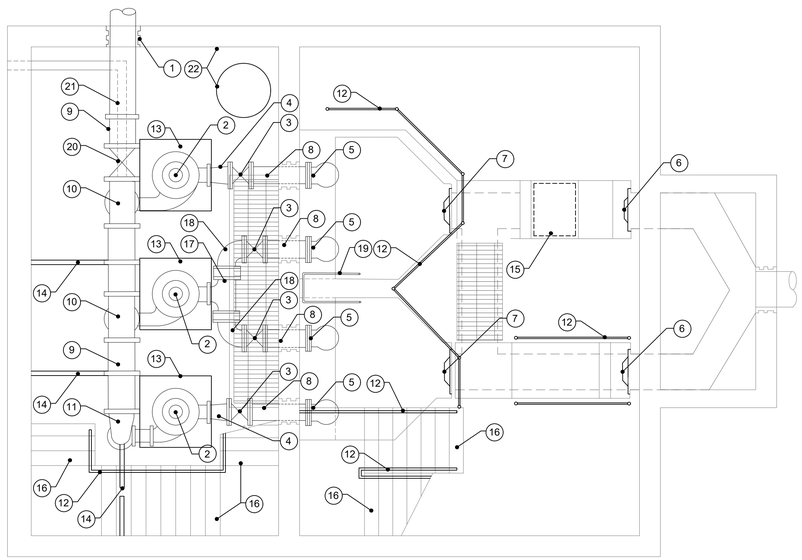
JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
LANDSCAPE NOTES AND DETAILS

PROJ. NO. J6609
DATE: MAY 2019
SCALE: 1" = 10'

NO. SHEETS 51
SHEET NO. 20
DRAWING NO. L-02

BID REVIEW



**PUMP ROOM & WET WELL**

NOTE:

LEAD-CONTAINING PAINT WAS DETECTED WITHIN THE EXISTING BUILDING. CONTRACTOR SHALL REMOVE PER PROPER GUIDELINES. REFER TO LEAD-CONTAINING PAINT SURVEY REPORT PREPARED BY GLE ASSOCIATES, INC. DATED MAY 3, 2017.

## PROPOSED DEMOLITION LEGEND

1. REMOVE EXISTING 18" FLANGED WALL SLEEVE
2. REMOVE EXISTING PUMPS, MOTORS, SHAFTING, PIPING, AND VALVES
3. REMOVE EXISTING 12" FLANGED PLUG VALVE
4. REMOVE EXISTING 12" X 10" ECCENTRIC REDUCER
5. REMOVE EXISTING 12" FLANGED - FLARE 90° BEND
6. REMOVE EXISTING POWER OPERATED SLUICE GATE, AND ALL APPURTENANCES
7. REMOVE EXISTING SELF CONTAINED HAND OPERATED SLUICE GATE LIFT, AND ALL APPURTENANCES
8. REMOVE EXISTING 12" D.I. PIPE
9. REMOVE EXISTING 18" D.I. FORCE MAIN
10. REMOVE EXISTING 18" X 18" X 12" FLANGED TEE
11. REMOVE EXISTING 18" X 12" FLANGED 90° BEND
12. REMOVE EXISTING HANDRAIL
13. REMOVE EXISTING CONCRETE SUPPORTS
14. REMOVE EXISTING PIPE SUPPORT
15. REMOVE EXISTING MECHANICAL BAR SCREEN UNIT
16. REMOVE EXISTING STAR TREADS AND DETERIORATED CONCRETE
17. REMOVE EXISTING 12" X 12" X10" FLANGED TEE WITH 12" SPACERS
18. REMOVE EXISTING 12" FLANGED 90° BEND
19. REMOVE EXISTING AIR SUPPLY PIPING
20. REMOVE EXISTING 18" PLUG VALVE
21. EXISTING BYPASS TO BE SAVED AND RECONNECTED TO PUMP #1
22. REMOVE EXISTING TANK; EXTEND EXISTING ¾" WATER SUPPLY LINES TO EACH PUMP

NOTES:

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PRESSURE WASHING AND CLEANING OF THE WET WELL. THE COATINGS APPLICATION CONTRACTOR SHALL BE RESPONSIBLE FOR ABRASIVE BLASTING AND ALL NECESSARY SURFACE PREPARATION OF ALL AREAS TO BE COATED/LINED.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL FASTENERS, PIPING, WALL PENETRATIONS AND FIXTURES THAT WILL NOT BE USED. ALL HOLES AND WALL PENETRATIONS SHALL BE PROPERLY CLEANED AND GROUTED PRIOR TO START OF WORK BY COATINGS APPLICATION CONTRACTOR.

ALL WALLS, FLOORS, ROOF AND EXPOSED SURFACES WITHIN THE WET WELL AND ACCESS HALL SHALL HAVE A NON-CORROSIVE PROTECTIVE LINER MATERIAL APPLIED (SPECTRASHIELD, GREEN MONSTER, SEWPER COAT, OR APPROVED EQUAL), PER SECTION 446-SPECIALTY COATINGS & LININGS OF THE JEA WATER & WASTEWATER STANDARDS MANUAL. COORDINATE W/ COATINGS CONTRACTOR.

PLUG OR GROUT ALL WALL PENETRATIONS THAT ARE NO LONGER REQUIRED FOR CONDUIT PIPE OR DUCT WORK. ALL PIPES OR CONDUITS ARE TO BE REMOVED PRIOR TO GROUTING PENETRATIONS.

N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SCOTT A. BREITENSTEIN P.E.
FLORIDA REGISTRATION NO.
57402

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| DESIGNER: | SAB |
| DRAWN BY: | DLS |
| DATE: | MAY 2019 |
| CHECKED BY: | WPO/COB |
| DATE: | MAY 2019 |

JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
PUMP STATION DEMOLITION PLAN

| | |
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| PROJ. NO. | J6609 |
| DATE: | MAY 2019 |
| SCALE: | 1/4" = 1' |

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| NO. SHEETS | 51 |
| SHEET NO. | 21 |
| DRAWING NO. | M-01 |

BID REVIEW


Xrefs Attached= J6609 Border [J:\J6609\Civil\DWG\Design\J6609 Border.dwg]
J6609-BASE [J:\J6609\Civil\DWG\Design\J6609-BASE.dwg]
J6609 SURBASE [J:\J6609\Civil\DWG\Design\J6609 SURBASE.dwg]
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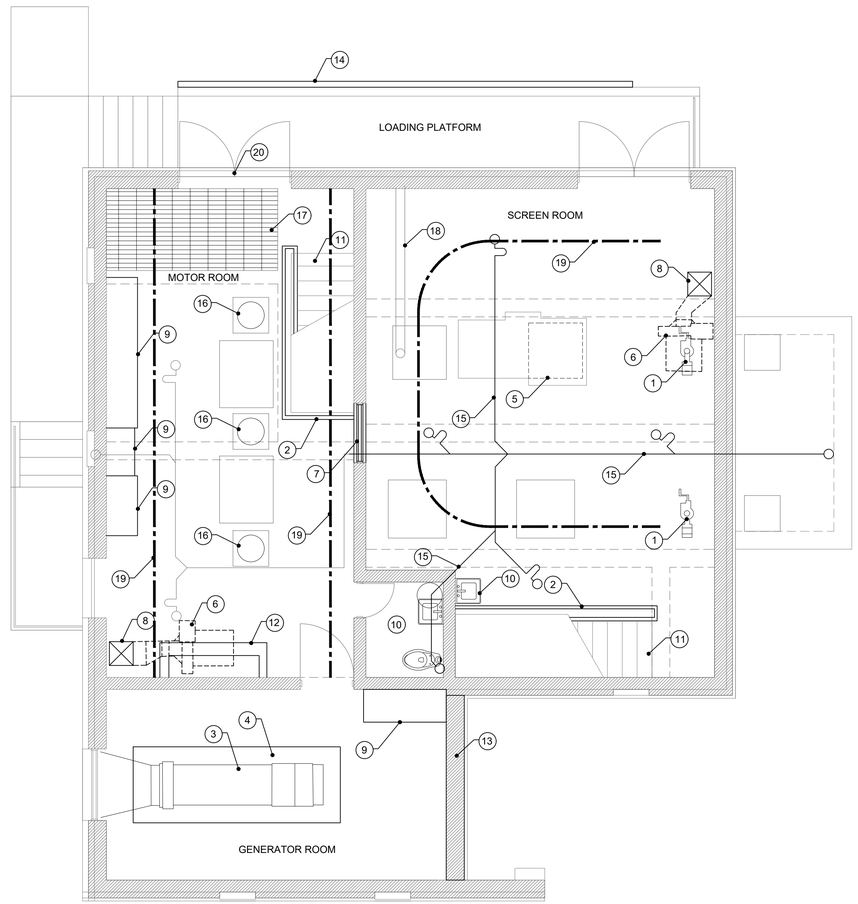


## EXISTING FLOOR PLAN

NOTE:

LEAD-CONTAINING PAINT WAS DETECTED WITHIN THE EXISTING BUILDING. CONTRACTOR SHALL REMOVE PER PROPER GUIDELINES. REFER TO LEAD-CONTAINING PAINT SURVEY REPORT PREPARED BY GLE ASSOCIATES, INC. DATED MAY 3, 2017.

## PROPOSED DEMOLITION LEGEND

1. REMOVE EXISTING POWER OPERATED SLUICE GATE LIFT, AND ALL APPURTENANCES.
2. REMOVE EXISTING HANDRAIL
3. REMOVE EXISTING GENERATOR
4. REMOVE EXISTING CONCRETE SUPPORTS FOR GENERATOR
5. REMOVE EXISTING MECHANICAL BAR SCREEN UNIT
6. REMOVE EXISTING WALL MOUNTED EXHAUST FAN
7. REMOVE EXISTING WINDOW AND FRAME ASSEMBLY
8. REFER TO DRAWING NO. H-02 FOR DUCT WORK
9. REMOVE ALL ELECTRICAL EQUIPMENT
10. REMOVE PLUMBING FIXTURES. RE: PLUMBING PLANS
11. REMOVE EXISTING ANTI SLIP TREADS AND DETERIORATED CONCRETE
12. REMOVE EXISTING CABINETS
13. REMOVE EXISTING LOUVERS / WINDOWS
14. REMOVE EXISTING BUMPER GUARD
15. REMOVE EXISTING DRAIN / SANITARY LINES (SEE PLUMBING PLAN P-02)
16. REMOVE EXISTING 25 H.P. PUMP DRIVE UNIT
17. REMOVE EXISTING ALUMINUM GRATING
18. S.S. BYPASS PIPE TO REMAIN
19. EXISTING STEEL HOIST BEAM TO REMAIN
20. REFER TO DRAWING NO. H-02 FOR FAN REMOVAL OVER DOOR

NOTES:

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PRESSURE WASHING AND CLEANING OF THE WET WELL. THE COATINGS APPLICATION CONTRACTOR SHALL BE RESPONSIBLE FOR ABRASIVE BLASTING AND ALL NECESSARY SURFACE PREPARATION OF ALL AREAS TO BE COATED/LINED.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL FASTENERS, PIPING, WALL PENETRATIONS AND FIXTURES THAT WILL NOT BE USED. ALL HOLES AND WALL PENETRATIONS SHALL BE PROPERLY CLEANED AND GROUTED PRIOR TO START OF WORK BY COATINGS APPLICATION CONTRACTOR.

ALL WALLS, FLOORS, ROOF AND EXPOSED SURFACES WITHIN THE WET WELL AND ACCESS HALL SHALL HAVE A NON-CORROSIVE PROTECTIVE LINER MATERIAL APPLIED (SPECTRASHIELD, GREEN MONSTER, SEWPER COAT, OR APPROVED EQUAL), PER SECTION 446-SPECIALTY COATINGS & LININGS OF THE JEA WATER & WASTEWATER STANDARDS MANUAL. COORDINATE W/ COATINGS CONTRACTOR.

PLUG OR GROUT ALL WALL PENETRATIONS THAT ARE NO LONGER REQUIRED FOR CONDUIT PIPE OR DUCT WORK. ALL PIPES OR CONDUITS ARE TO BE REMOVED PRIOR TO GROUTING PENETRATIONS.


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FLORIDA REGISTRATION NO.
57402

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| DESIGNER: | SAB |
| DRAWN BY: | DLS |
| DATE: | MAY 2019 |
| CHECKED BY: | WPO/COB |
| DATE: | MAY 2019 |

JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
PUMP STATION UPPER LEVEL
DEMOLITION PLAN

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| PROJ. NO. | J6609 |
| DATE: | MAY 2019 |
| SCALE: | 1/4" = 1' |
| NO. SHEETS | 51 |
| SHEET NO. | 22 |
| DRAWING NO. | M-02 |

BID REVIEW

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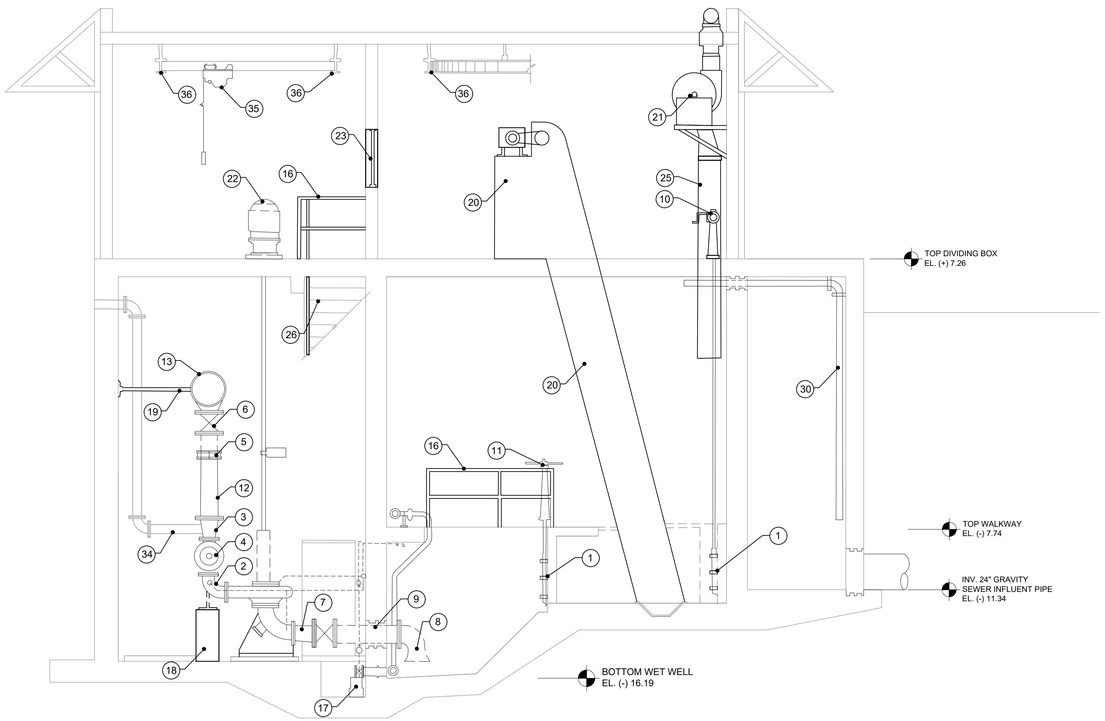
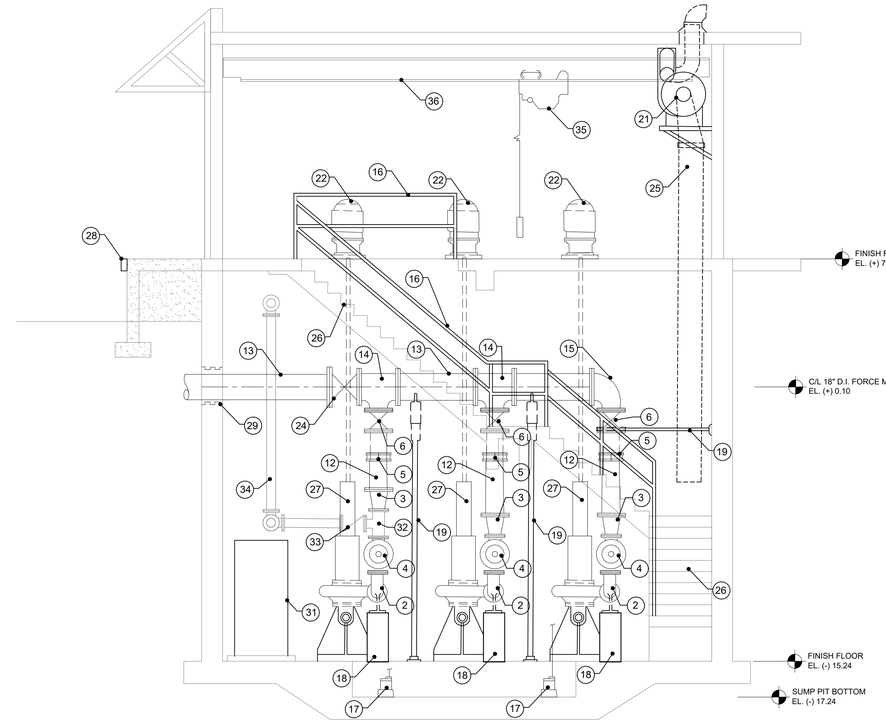
Xrefs Attached= J6609 Border [J:\J6609\Civil\DWG\Design\J6609 Border.dwg]
J6609-BASE [J:\J6609\Civil\DWG\Design\J6609-BASE.dwg]
J6609 SURBASE [J:\J6609\Civil\DWG\Design\J6609 SURBASE.dwg]




## PROPOSED DEMOLITION LEGEND

1. REMOVE EXISTING SLUICE GATE, AND ALL APPURTENANCES.
2. REMOVE EXISTING DISCHARGE 8" FLANGED 90° BASE BEND
3. REMOVE EXISTING 12" X 8" REDUCER
4. REMOVE EXISTING 8" CHECK CONTROL VALVE
5. REMOVE EXISTING 12" FLEXIBLE COUPLING
6. REMOVE EXISTING 12" FLANGED PLUG VALVE
7. REMOVE EXISTING 12" X 10" ECCENTRIC REDUCER
8. REMOVE EXISTING 12" FLANGED - FLARE 90° BEND
9. REMOVE EXISTING 12" FLANGED WALL SLEEVE
10. REMOVE EXISTING POWER OPERATED SLUICE GATE
11. REMOVE EXISTING SELF CONTAINED HAND OPERATED SLUICE GATE LIFT
12. REMOVE EXISTING 12" D.I. PIPE
13. REMOVE EXISTING 18" D.I. FORCE MAIN
14. REMOVE EXISTING 18" X 18" X 12" FLANGED TEE
15. REMOVE EXISTING 18" X 12" FLANGED 90° BEND
16. REMOVE EXISTING HANDRAIL
17. REMOVE EXISTING SUMP PUMP AND PIPING
18. REMOVE EXISTING CONCRETE SUPPORTS
19. REMOVE EXISTING PIPE SUPPORT
20. REMOVE EXISTING MECHANICAL BAR SCREEN UNIT
21. REMOVE EXISTING WALL MOUNTED EXHAUST FAN
22. REMOVE EXISTING 25 H.P. PUMP DRIVE UNIT AND PUMP
23. REMOVE EXISTING WINDOW AND FRAME ASSEMBLY
24. REMOVE EXISTING 18" PLUG VALVE
25. REFER TO DRAWING NO. H-02 FOR DUCT WORK
26. REMOVE EXISTING STAR TREADS AND DETERIORATED CONCRETE
27. REMOVE EXISTING PUMP ASSEMBLY
28. REMOVE EXISTING BUMPER GUARD
29. REMOVE EXISTING 18" FLANGED WALL SLEEVE
30. REMOVE EXISTING SEAL WATER SYSTEM RE: PLUMBING PLAN FOR CONTINUATION
31. REMOVE EXISTING TANK; EXTEND EXISTING ¾" WATER SUPPLY LINES TO EACH PUMP
32. 8" X 6" TEE TO REMAIN
33. 6" CHECK VALVE TO REMAIN
34. 6" S.S. BYPASS PIPING AND APPURTENANCES TO REMAIN
35. REMOVE EXISTING MOTORED HOIST
36. EXISTING STEEL HOIST BEAM TO REMAIN

NOTE:

LEAD-CONTAINING PAINT WAS DETECTED WITHIN THE EXISTING BUILDING. CONTRACTOR SHALL REMOVE PER PROPER GUIDELINES. REFER TO LEAD-CONTAINING PAINT SURVEY REPORT PREPARED BY GLE ASSOCIATES, INC. DATED MAY 3, 2017.

NOTES:

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PRESSURE WASHING AND CLEANING OF THE WET WELL. THE COATINGS APPLICATION CONTRACTOR SHALL BE RESPONSIBLE FOR ABRASIVE BLASTING AND ALL NECESSARY SURFACE PREPARATION OF ALL AREAS TO BE COATED/LINED.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL FASTENERS, PIPING, WALL PENETRATIONS AND FIXTURES THAT WILL NOT BE USED. ALL HOLES AND WALL PENETRATIONS SHALL BE PROPERLY CLEANED AND GROUTED PRIOR TO START OF WORK BY COATINGS APPLICATION CONTRACTOR.

ALL WALLS, FLOORS, ROOF AND EXPOSED SURFACES WITHIN THE WET WELL AND ACCESS HALL SHALL HAVE A NON-CORROSIVE PROTECTIVE LINER MATERIAL APPLIED (SPECTRASHIELD, GREEN MONSTER, SEWPER COAT, OR APPROVED EQUAL), PER SECTION 446-SPECIALTY COATINGS & LININGS OF THE JEA WATER & WASTEWATER STANDARDS MANUAL. COORDINATE W/ COATINGS CONTRACTOR.

PLUG OR GROUT ALL WALL PENETRATIONS THAT ARE NO LONGER REQUIRED FOR CONDUIT PIPE OR DUCT WORK. ALL PIPES OR CONDUITS ARE TO BE REMOVED PRIOR TO GROUTING PENETRATIONS.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SCOTT A. BREITENSTEIN P.E.
FLORIDA REGISTRATION NO. 57402

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|---|---|
| DESIGNER: | SAB |
| DRAWN BY: | DLB |
| DATE: | MAY 2019 |
| CHECKED BY: | WPO/CDB |
| DATE: | MAY 2019 |

JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
PUMP STATION CROSS SECTION
DEMOLITION PLAN

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| PROJ. NO. | J6609 |
| DATE: | MAY 2019 |
| SCALE: | 1/4" = 1' |

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| NO. SHEETS | 51 |
| SHEET NO. | 23 |
| DRAWING NO. | M-03 |

BID REVIEW


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Xrefs Attached= J6609 Border [J:\J6609\Civil\DWG\Design\J6609 Border.dwg]
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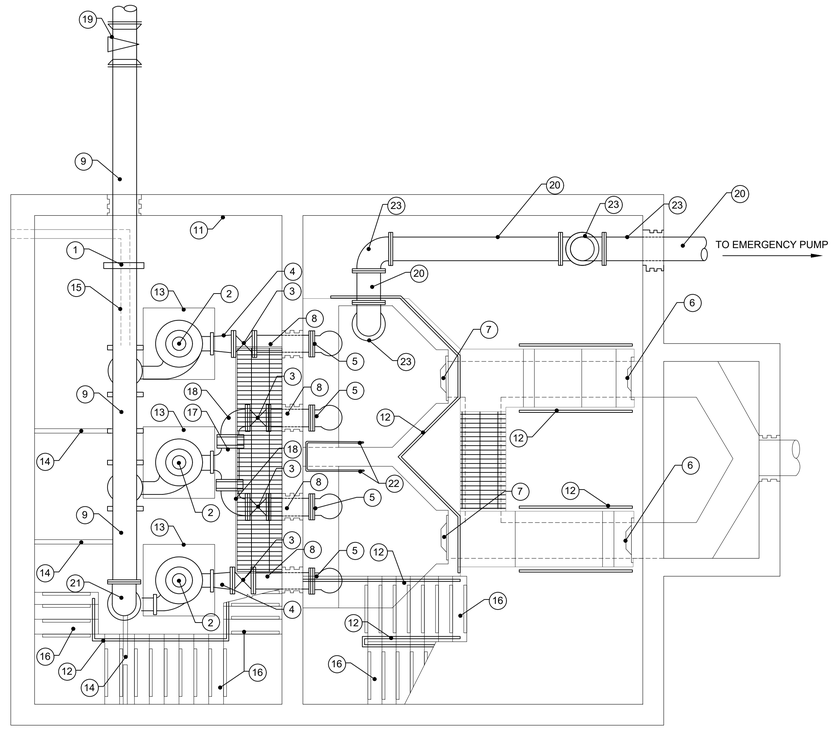


## PUMP ROOM & WET WELL

N

## PROPOSED REPLACEMENT LEGEND

1. NEW STRAP ON METER
2. REPLACE EXISTING PUMPS, MOTORS, SHAFTING, PIPING, AND VALVES
3. REPLACE EXISTING 12" FLANGED PLUG VALVE
4. REPLACE EXISTING 12" X 8" ECCENTRIC REDUCER
5. REPLACE EXISTING 12" FLANGED - FLARE 90° BEND WITH STAINLESS STEEL 12" FLANGED - FLARE 90° BEND
6. REPLACE EXISTING 24" X 24" POWER OPERATED SLUICE GATE, AND APPURTENACES
7. REPLACE EXISTING 24" X 24" SELF CONTAINED HAND OPERATED SLUICE GATE LIFT, AND APPURTENACES
8. REPLACE EXISTING 12" D.I. PIPE WITH 12" STAINLESS STEEL PIPE
9. REPLACE EXISTING 18" D.I. FORCE MAIN WITH 16" D.I. PIPE
10. PROPOSED 18" FLANGED 90° BEND
11. EXTEND EXISTING ¾" WATER SUPPLY LINES TO EACH PUMP
12. NEW 1-1/2" DIAMETER ALUMINUM STAIR RAILINGS. RAILING TO BE 36" H. AND GUARD RAILS TO BE 42" H.
13. REPLACE EXISTING CONCRETE SUPPORTS
14. REPLACE EXISTING PIPE SUPPORT
15. EXISTING BYPASS TO BE RECONNECTED TO PUMP #1
16. NEW ANTI SLIP INSERTS ON STAIR TREADS.
17. REPLACE EXISTING 12" X 12" X 8" FLANGED TEE WITH 12" SPACERS
18. REPLACE EXISTING 12" FLANGED 90° BEND
19. REPLACE EXISTING 18" X 16" MJ REDUCER WITH NEW 16" MJ PLUG VALVE
20. NEW 16" STAINLESS STEEL SUCTION LINE
21. NEW 16" X 16" FLANGED 90° BEND
22. NEW BUBBLER TUBES
23. NEW 16" X 16" STAINLESS STEEL FLANGED 90° BEND

NOTES:

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PRESSURE WASHING AND CLEANING OF THE WET WELL. THE COATINGS APPLICATION CONTRACTOR SHALL BE RESPONSIBLE FOR ABRASIVE BLASTING AND ALL NECESSARY SURFACE PREPARATION OF ALL AREAS TO BE COATED/LINED.

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PLUG OR GROUT ALL WALL PENETRATIONS THAT ARE NO LONGER REQUIRED FOR CONDUIT PIPE OR DUCT WORK. ALL PIPES OR CONDUITS ARE TO BE REMOVED PRIOR TO GROUTING PENETRATIONS.

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| DESIGNER: | SAB |
| DRAWN BY: | TLG |
| DATE: | MAY 2019 |
| CHECKED BY: | WPO/CDB |
| DATE: | MAY 2019 |

JEA Building Community sm

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
PUMP STATION NEW AND REPLACEMENT PLAN

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| PROJ. NO. | J6609 |
| DATE: | MAY 2019 |
| SCALE: | 1/4" = 1' |

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| NO. SHEETS IN SET | 31 |
| SHEET NO. | 24 |
| DRAWING NO. | M-04 |


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Xrefs Attached= J6609 Border [J:\J6609\Civil\DWG\Design\J6609 Border.dwg]
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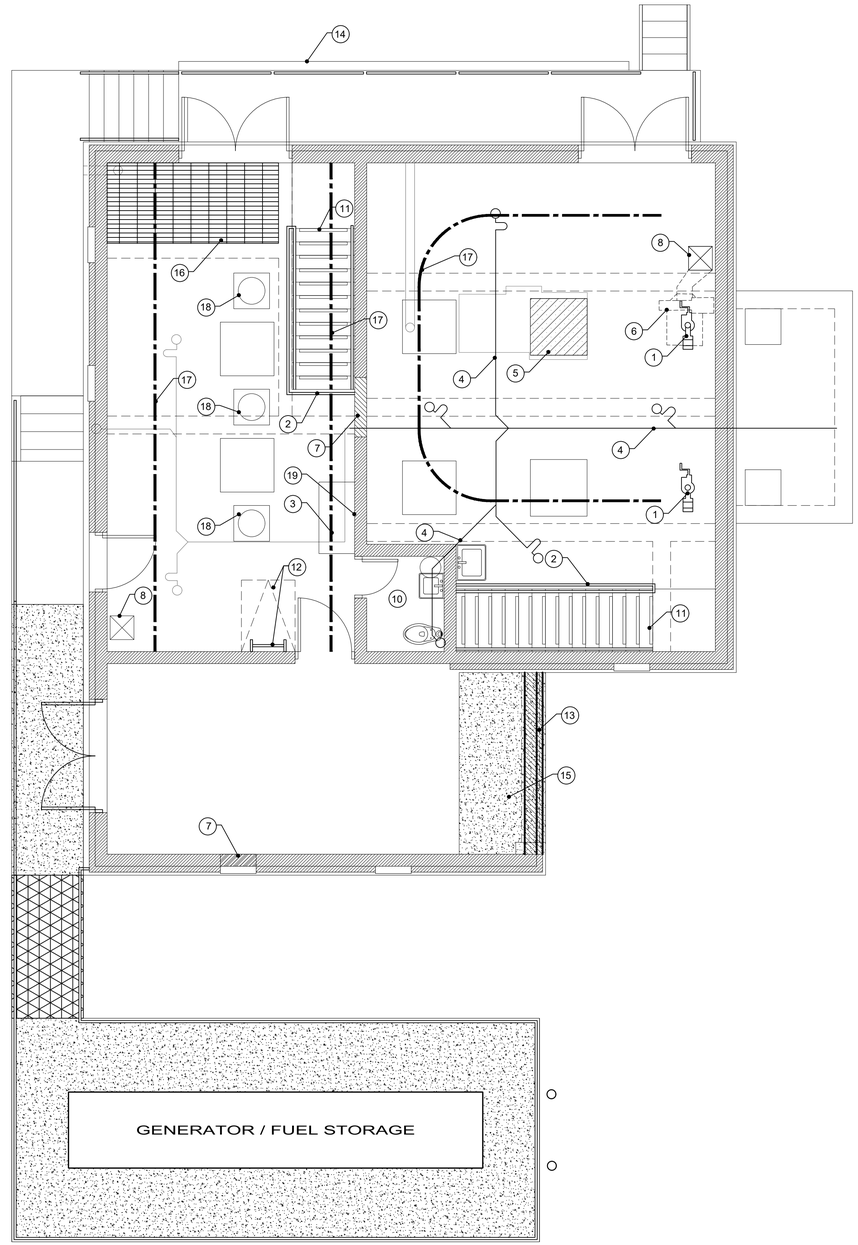


## PROPOSED REPLACEMENT LEGEND

1. REPLACE EXISTING POWER OPERATED SLUICE GATE LIFT, AND ALL APPURTENANCES
2. NEW 1-1/2" DIAMETER ALUMINUM STAIR RAILINGS. RAILING TO BE 36" H. AND GUARD RAILS TO BE 42" H.
3. NEW BUBBLER AIR SUPPLY COMPRESSOR ON HOUSEKEEPING PADS
4. REPLACE EXISTING DRAIN / SANITARY LINES (SEE PLUMBING PLAN P-02)
5. REPLACE EXISTING MECHANICAL BAR SCREEN UNIT WITH SST PLATE
6. REFER TO DRAWING NO. H-02 FOR NEW EXHAUST FAN
7. INFILL WALL OPENING WITH NEW C.M.U. - REFER TO STRUCTURAL.
8. REFER TO DRAWING NO. H-02 FOR NEW DUCT WORK
9. PROPOSED MOTORIZED LIFT ON EXISTING TRACK - PROPOSED NO-MOTORIZED LIFT ON EXISTING TRACK
10. REPLACE PLUMBING FIXTURES RE: PLUMBING PLANS
11. NEW ANTI SLIP INSERTS ON STAIR TREADS
12. LOCATION OF NEW ROOF HATCH AND ROOF ACCESS LADDER. REFER TO STRUCTURAL.
13. NEW C.M.U. WALL WITH BRICK VENEER TO MATCH EXISTING EXTERIOR BRICK. PROVIDE BITUMINOUS DAMP PROOFING ON FACE OF WALL REFER TO STRUCTURAL FOR WALL AND FOUNDATION.
14. REPLACE EXISTING BUMPER GUARD
15. NEW CONCRETE SLAB AND FOUNDATION ABOVE GRADE TO MATCH EXISTING SLAB ELEVATION. REFER TO STRUCTURAL.
16. NEW ALUMINUM METAL GRATING TO MATCH EXISTING STYLE & SIZE.
17. EXISTING STEEL HOIST BEAM ABOVE TO REMAIN.
18. REPLACE EXISTING PUMPS, MOTORS, SHAFTING, PIPING, AND VALVES
19. BUBBLER SYSTEM REGULATORS, VALVES, ETC. , MOUNTED TO WALL

NOTES:

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PRESSURE WASHING AND CLEANING OF THE WET WELL. THE COATINGS APPLICATION CONTRACTOR SHALL BE RESPONSIBLE FOR ABRASIVE BLASTING AND ALL NECESSARY SURFACE PREPARATION OF ALL AREAS TO BE COATED/LINED.

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FLORIDA REGISTRATION NO. 57402

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| DESIGNER: | SAB |
| DRAWN BY: | SVS |
| DATE: | MAY 2019 |
| CHECKED BY: | WPO/CDB |
| DATE: | MAY 2019 |

JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
PUMP STATION UPPER LEVEL NEW AND REPLACEMENT PLAN

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| PROJ. NO. | J6609 |
| DATE: | MAY 2019 |
| SCALE: | 1/4" = 1' |

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| NO. SHEETS | 51 |
| SHEET NO. | 25 |
| DRAWING NO. | M-05 |

BID REVIEW


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Xrefs Attached= J6609 Border [J:\J6609\Civil\DWG\Design\J6609 Border.dwg]
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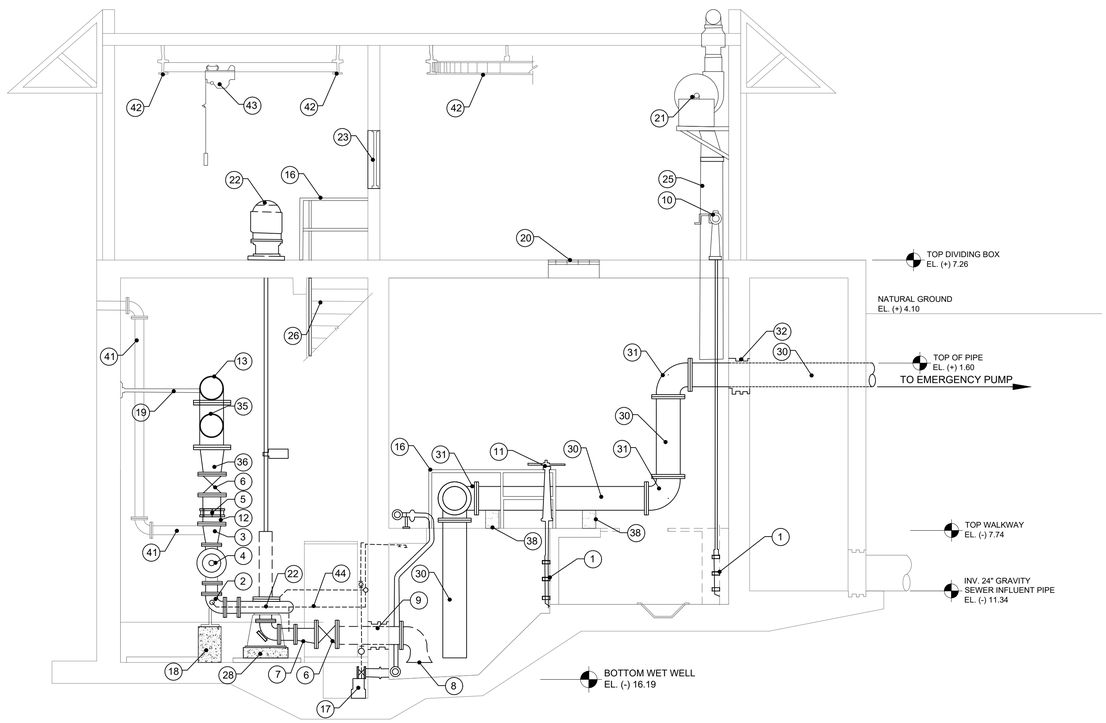
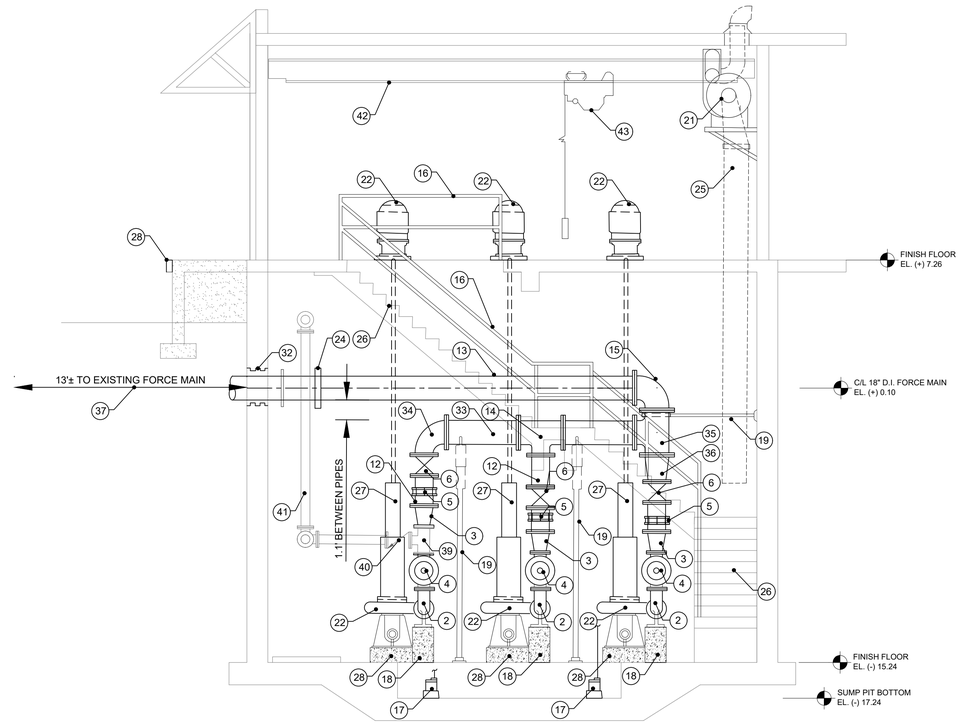
J6609 SURBASE [J:\J6609\Civil\DWG\Design\J6609 SURBASE.dwg]




## PROPOSED REPLACEMENT LEGEND

1. REPLACE EXISTING SLUICE GATE, AND ALL APPURTENANCES
2. REPLACE EXISTING DISCHARGE 8" FLANGED 90° BASE BEND
3. REPLACE EXISTING 12" X 8" REDUCER
4. REPLACE EXISTING 8" CHECK CONTROL VALVE
5. REPLACE EXISTING 12" FLEXIBLE COUPLING
6. REPLACE EXISTING 12" FLANGED PLUG VALVE
7. REPLACE EXISTING 12" X 8" ECCENTRIC REDUCER
8. REPLACE EXISTING 12" FLANGED - FLARE 90° BEND
9. REPLACE EXISTING 12" FLANGED WALL SLEEVE
10. REPLACE EXISTING POWER OPERATED SLUICE GATE
11. REPLACE EXISTING SELF CONTAINED HAND OPERATED SLUICE GATE LIFT
12. REPLACE EXISTING 12" D.I. PIPE
13. REPLACE EXISTING 18" D.I. FORCE MAIN WITH 16" D.I. PIPE
14. PROPOSED 16" X 16" X 12" FLANGED TEE
15. PROPOSED 16" FLANGED 90° BEND
16. NEW 1-1/2" DIAMETER ALUMINUM STAIR RAILINGS. RAILING TO BE 36" H. AND GUARD RAILS TO BE 42" H.
17. REPLACE EXISTING SUMP PUMP AND PIPING WITH MYERS MESPD100AH2, 230V SUMP PUMP WITH METAL TO METAL RAIL SYSTEM
18. REPLACE EXISTING CONCRETE SUPPORTS
19. REPLACE EXISTING PIPE SUPPORT
20. REPLACE EXISTING MECHANICAL BAR SCREEN UNIT WITH S.S. PLATE
21. REFER TO DRAWING NO. H-02 FOR NEW EXHAUST FAN
22. REPLACE EXISTING 25 H.P. PUMP DRIVE UNIT AND PUMP
23. INFILL WINDOW OPENING RE: ARCH/STRUCTURAL PLANS
24. NEW STRAP ON METER
25. REFER TO DRAWING NO. H-02 FOR NEW DUCT WORK
26. NEW ANTI SLIP INSERTS ON STAIR TREADS
27. REPLACE EXISTING PROTECTIVE GUARD
28. CONCRETE PAD FOR PUMP
29. REPLACE EXISTING BUMPER GUARD
30. NEW 16" STAINLESS STEEL SUCTION LINE
31. NEW 16" X 16" STAINLESS STEEL FLANGED 90° BEND
32. REPLACE EXISTING 18" FLANGED WALL SLEEVE
33. PROPOSED 16" D.I. FORCE MAIN
34. PROPOSED 16" X 12" FLANGED 90° BEND
35. PROPOSED 16" FLANGED TEE
36. PROPOSED 12" X 16" REDUCER
37. NEW 16" MJ PLUG VALVE OUTSIDE OF BUILDING
38. CRADLE PIPE SUPPORT RE: SHEET C-05
39. 8" X 6" TEE TO REMAIN
40. 6" CHECK VALVE TO REMAIN
41. 6" SST BYPASS PIPING AND APPURTENANCES TO REMAIN
42. EXISTING HOIST BEAM TO REMAIN
43. NEW MOTORIZED HOIST
44. EXTEND EXISTING ¾" WATER SUPPLY LINES TO EACH PUMP

NOTES:

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PRESSURE WASHING AND CLEANING OF THE WET WELL. THE COATINGS APPLICATION CONTRACTOR SHALL BE RESPONSIBLE FOR ABRASIVE BLASTING AND ALL NECESSARY SURFACE PREPARATION OF ALL AREAS TO BE COATED/LINED.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL FASTENERS, PIPING, WALL PENETRATIONS AND FIXTURES THAT WILL NOT BE USED. ALL HOLES AND WALL PENETRATIONS SHALL BE PROPERLY CLEANED AND GROUTED PRIOR TO START OF WORK BY COATINGS APPLICATION CONTRACTOR.

ALL WALLS, FLOORS, ROOF AND EXPOSED SURFACES WITHIN THE WET WELL AND ACCESS HALL SHALL HAVE A NON-CORROSIVE PROTECTIVE LINER MATERIAL APPLIED (SPECTRASHIELD, GREEN MONSTER, SEWPER COAT, OR APPROVED EQUAL), PER SECTION 446-SPECIALTY COATINGS & LININGS OF THE JEA WATER & WASTEWATER STANDARDS MANUAL. COORDINATE W/ COATINGS CONTRACTOR.

PLUG OR GROUT ALL WALL PENETRATIONS THAT ARE NO LONGER REQUIRED FOR CONDUIT PIPE OR DUCT WORK. ALL PIPES OR CONDUITS ARE TO BE REMOVED PRIOR TO GROUTING PENETRATIONS.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This item has been electronically signed and sealed by Scott A. Breitenstein P.E. on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

DESIGN ENGINEER
SCOTT A. BREITENSTEIN P.E.
FLORIDA REGISTRATION NO. 57402

| | |
|---|---|
| DESIGNER: | SAB |
| DRAWN BY: | DLS |
| DATE: | MAY 2019 |
| CHECKED BY: | WPO/CDB |
| DATE: | MAY 2019 |

JEA Building Community

4881 TIMUQUANA ROAD
WASTEWATER PUMPING STATION UPGRADES
PUMP STATION CROSS SECTION NEW
AND REPLACEMENT PLAN

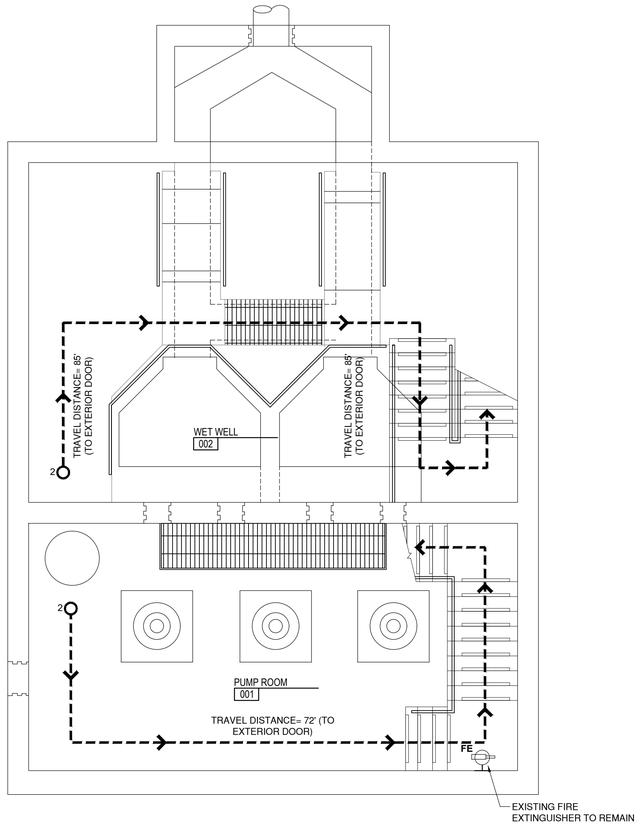
| | |
|---|---|
| PROJ. NO. | J6609 |
| DATE: | MAY 2019 |
| SCALE: | 1/4" = 1' |

| | |
|---|---|
| NO. SHEETS | 31 |
| SHEET NO. | 26 |
| DRAWING NO. | M-06 |

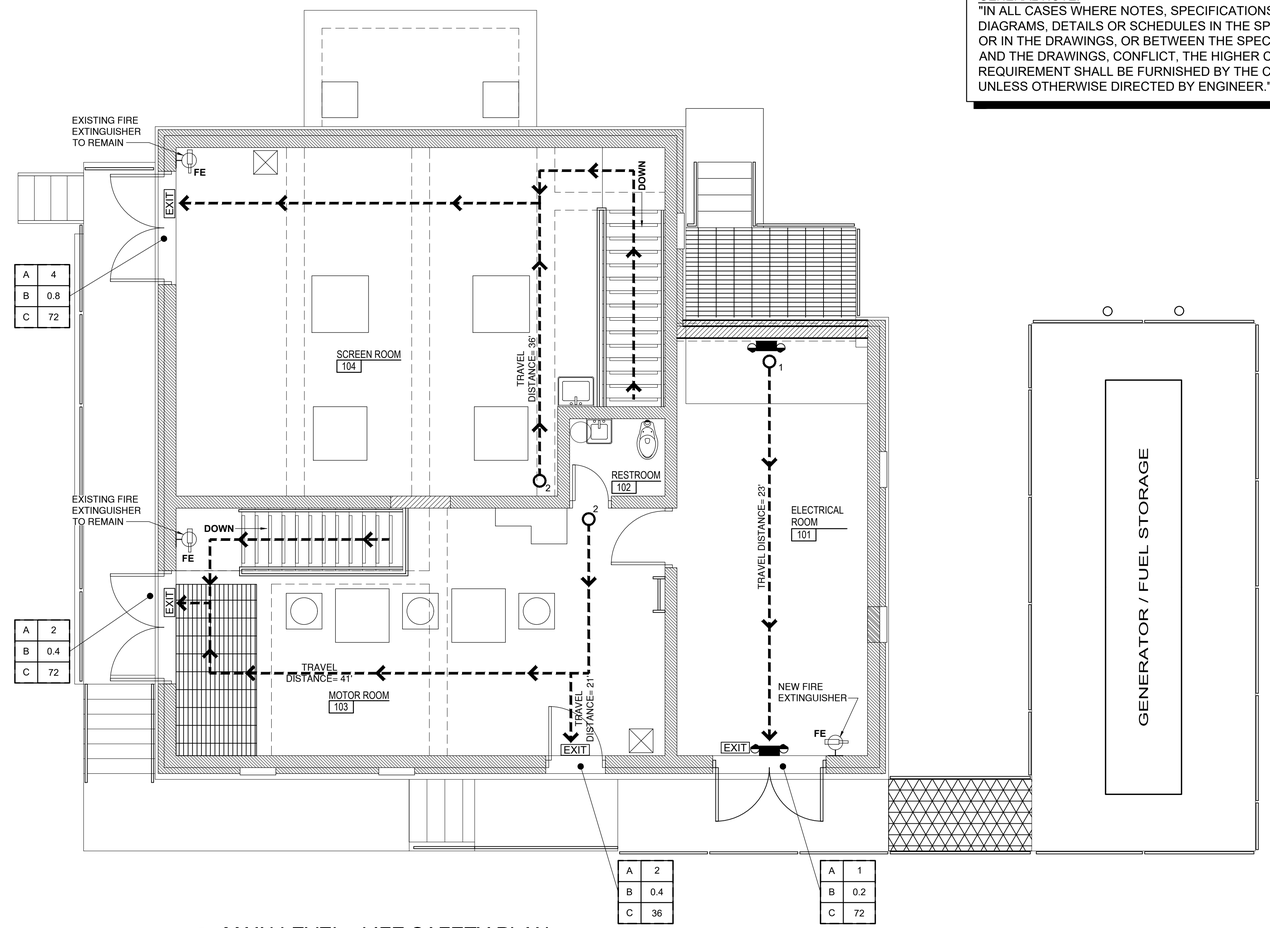
BID REVIEW


J:\J6609 Timuquana\Civil\DWG\Design\J6609 C-03 New and Replacement plan.dwg Current Layout Tab = M-06 Mon Mar 08, 2021 - 09:46
Xrefs Attached= J6609 Border [J:\J6609\Civil\DWG\Design\J6609 Border.dwg]
J6609-BASE [J:\J6609\Civil\DWG\Design\J6609-BASE.dwg]
J6609 SURBASE [J:\J6609\Civil\DWG\Design\J6609 SURBASE.dwg]

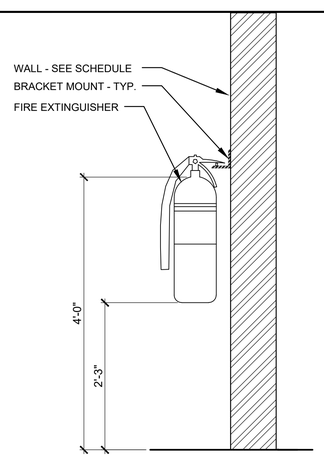
GENERAL NOTE:
"IN ALL CASES WHERE NOTES, SPECIFICATIONS, SKETCHES, DIAGRAMS, DETAILS OR SCHEDULES IN THE SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, CONFLICT, THE HIGHER COST REQUIREMENT SHALL BE FURNISHED BY THE CONTRACTOR, UNLESS OTHERWISE DIRECTED BY ENGINEER."




2 A-01 LOWER LEVEL - LIFE SAFETY PLAN
SCALE: 1/4" = 1'-0"




1 A-01 MAIN LEVEL - LIFE SAFETY PLAN
SCALE: 1/4" = 1'-0"




2 A-01 FIRE EXT DETAIL
SCALE: NTS

## GENERAL NOTES

BUILDING CODES:

| | | |
|---|---|---|
| BUILDING CODE EDITION: | FLORIDA EXISTING BUILDING CODE | 6th Ed. (2017) |
| MECHANICAL CODE EDITION: | FLORIDA MECHANICAL CODE | 6th Ed. (2017) |
| ELECTRICAL CODE EDITION: | NATIONAL ELECTRICAL CODE | 2014, NFPA 70 |
| PLUMBING CODE EDITION: | FLORIDA PLUMBING CODE | 6th Ed. (2017) |
| ADDITIONAL CODE EDITION: | FLORIDA FIRE PREVENTION CODE | 6th Ed. (2015) |
| | FLORIDA ACCESSIBILITY CODE | 6th Ed. (2017) |

BUILDING DATA:

| | |
|---|---|
| OCCUPANCY: | USE GROUP - F2 |
| CONSTRUCTION TYPE: | IIB |
| NUMBER OF STORIES: | 1 |
| BUILDING HEIGHT: | 16'-10" |
| GROSS BUILDING AREA: | 1,144 GROSS S.F. |

LIFE SAFETY SYSTEM:

| | | |
|---|---|---|
| EMERGENCY LIGHTING: | X YES | __ NO |
| EXIT SIGNS: | X YES | __ NO |
| FIRE ALARM AND SMOKE DETECTION SYSTEM : | X YES | __ NO |
| PANIC HARDWARE: | X YES | __ NO |
| FIRE SPRINKLERS: | __ YES | X NO |

## OCCUPANCY ALLOWANCE:
FLORIDA BUILDING CODE: 2017

TABLE 1004.1.2
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

| FUNCTION OF SPACE | ALLOWANCE (SQ.FT./PERSON) | AREA (SQ. FT.) | OCCUPANTS |
|---|---|---|---|
| 1ST FLOOR | | | |
| MOTOR ROOM | 300 GROSS | 378 | 2 |
| ELECTRICAL ROOM | 300 GROSS | 249 | 1 |
| SCREEN ROOM | 300 GROSS | 461 | 2 |
| 2ND FLOOR | | | |
| WET WELL | 300 GROSS | 320 | 2 |
| PUMP ROOM | 300 GROSS | 310 | 2 |
| | | | |
| | | | |
| TOTAL BUILDING OCCUPANCY ALLOWANCE | | | 9 |

## EGRESS LEGEND

| | |
|---|---|
| A | OCCUPANT LOAD AT THIS EXIT |
| B | REQUIRED EXIT WIDTH |
| C | PROVIDED EXIT WIDTH |

## LIFE SAFETY LEGEND

- TRAVEL PATH ( 200 FEET MAX)
- 3 START OF TRAVEL
- DIRECTION OF TRAVEL
- NEW EMERGENCY LIGHT REFER TO ELECTRICAL
- EXIT NEW EXIT SIGNAGE AFFIXED TO DOOR.
- FE FIRE EXTINGUISHER BRACKET MOUNTED 4A:20B:C (SEE DETAIL 2/A-01)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STATE OF FLORIDA JOHN A. BAER REGISTERED ARCHITECT AR93193

DESIGN ENGINEER
JOHN A. BAER
FLORIDA REGISTRATION NO.
AR93193

| | | |
|---|---|---|
| DESIGNER: | J.A.B. | |
| DRAWN BY: | Y.F.D. | |
| DATE: | AUGUST 2018 | |
| CHECKED BY: | J.A.B. | |
| DATE: | AUGUST 2018 | |

JEA Building Community

TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT

# LIFE SAFETY PLAN

| | |
|---|---|
| PROJ. NO. | J6609 |
| DATE: | AUGUST 2018 |
| SCALE: | 1/4" = 1'-0" |
| NO. SHEETS | 46 |
| SHEET NO. | 27 |
| DRAWING NO. | A-01 |

BID REVIEW


Xrefs Attached= XR-J6609-HSP BUILDING [J:\J6609\Architecture\01_Architectural\XR-J6609-HSP BUILDING.dwg]
J6609 Border [J:\J6609\Architecture\01_Architectural\J6609 Border.dwg]
J:\J6609\Architecture\01_Architectural\J6609-01-A-01-Life Safety Plan.dwg Current Layout Tab = A-01 Fri Mar 05, 2021 - 14:12

## LEGEND

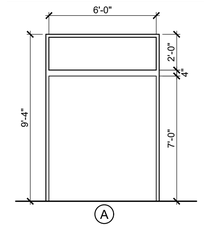
| | |
|---|---|
| 1 | KEY NOTE |
| # | NEW DOOR TAG. REFER TO DOOR SCHEDULE |

## KEY NOTES

1. NEW CONCRETE SLAB AND FOUNDATION ABOVE GRADE TO MATCH EXISTING SLAB ELEVATION. REFER TO STRUCTURAL.
2. NEW 2" THICK METAL GRATED PLATFORM - WIDTH OF PLATFORM TO MATCH EXISTING LANDING WIDTH. NEW CONC LANDING TO HAVE RECESSED EDGE W/ STEEL ANGLE FOR PLATFORM TO SIT. REFER CIVIL FOR DETAIL.
3. NEW 1-1/2" DIAMETER x 42" HIGH ALUMINUM GUARDRAIL.
4. NEW GENERATOR. REFER TO ELECTRICAL.
5. NEW FUEL STORAGE CONTAINER. REFER TO MECHANICAL.
6. NEW C.M.U. WALL WITH BRICK VENEER TO MATCH EXISTING EXTERIOR BRICK. PROVIDE BITUMINOUS DAMP PROOFING ON FACE OF WALL REFER TO STRUCTURAL FOR WALL AND FOUNDATION.
7. INFILL WALL OPENING WITH NEW C.M.U. - REFER TO STRUCTURAL.
8. NEW PLUMBING FIXTURES - REFER TO PLUMBING.
9. NEW 1-1/2" DIAMETER ALUMINUM STAIR RAILINGS. RAILING TO BE 36" H. AND GUARD RAILS TO BE 42" H.
10. NEW ANTI SLIP INSERTS ON STAIR TREADS.
11. PROVIDE TERMITE TREATMENT UNDER NEW SLAB.
12. LOCATION OF NEW ROOF HATCH AND ROOF ACCESS LADDER. REFER TO STRUCTURAL.
13. NEW ALUMINUM METAL GRATING TO MATCH EXISTING STYLE & SIZE.
14. NEW 1-1/2" DIAMETER x 42" H. REMOVABLE ALUMINUM GUARD RAILS - FULL WIDTH OF EXISTING LOADING PLATFORM
15. EXISTING STEEL HOIST BEAM ABOVE TO REMAIN.
16. NEW A/C CONDENSER UNIT MOUNTED ON WALL. HORIZONTAL SECTION OF MOUNTING BRACKET TO BE FLUSH WITH INTERIOR FINISHED FLOOR.
17. NEW CONC SLAB TO SUPPORT MAINTENANCE PLATFORM WITH LANDING AT BOTTOM OF STAIRS.
18. NEW PRE-MANUF. STAIRS W/ 36" HIGH RAILING.
19. NEW 42" H. REMOVABLE GUARD RAILS AROUND MAINTENANCE PLATFORM
20. NEW 28" H. PRE-MANUF MAINTENANCE PLATFORM ON NEW 4" THICK CONC. SLAB. REFER TO STRUCTURAL
21. REFER TO SHEET A-10 FOR DRYPROOFING DETAILS

## DOOR SCHEDULE

| MARK | DOOR | | | FRAME | | HARDWARE | NOTE |
|---|---|---|---|---|---|---|---|
| | MATL | SIZE | TYPE | MATL | SIZE | | |
| 100 | HLM | 6'-0" x 7'-0" x 1 3/4" | A | ALUM. | 2" JAMB, 4" HEAD | ENTRANCE | REFER TO SHEET A-7 FOR ADDITIONAL DOOR INFORMATION |

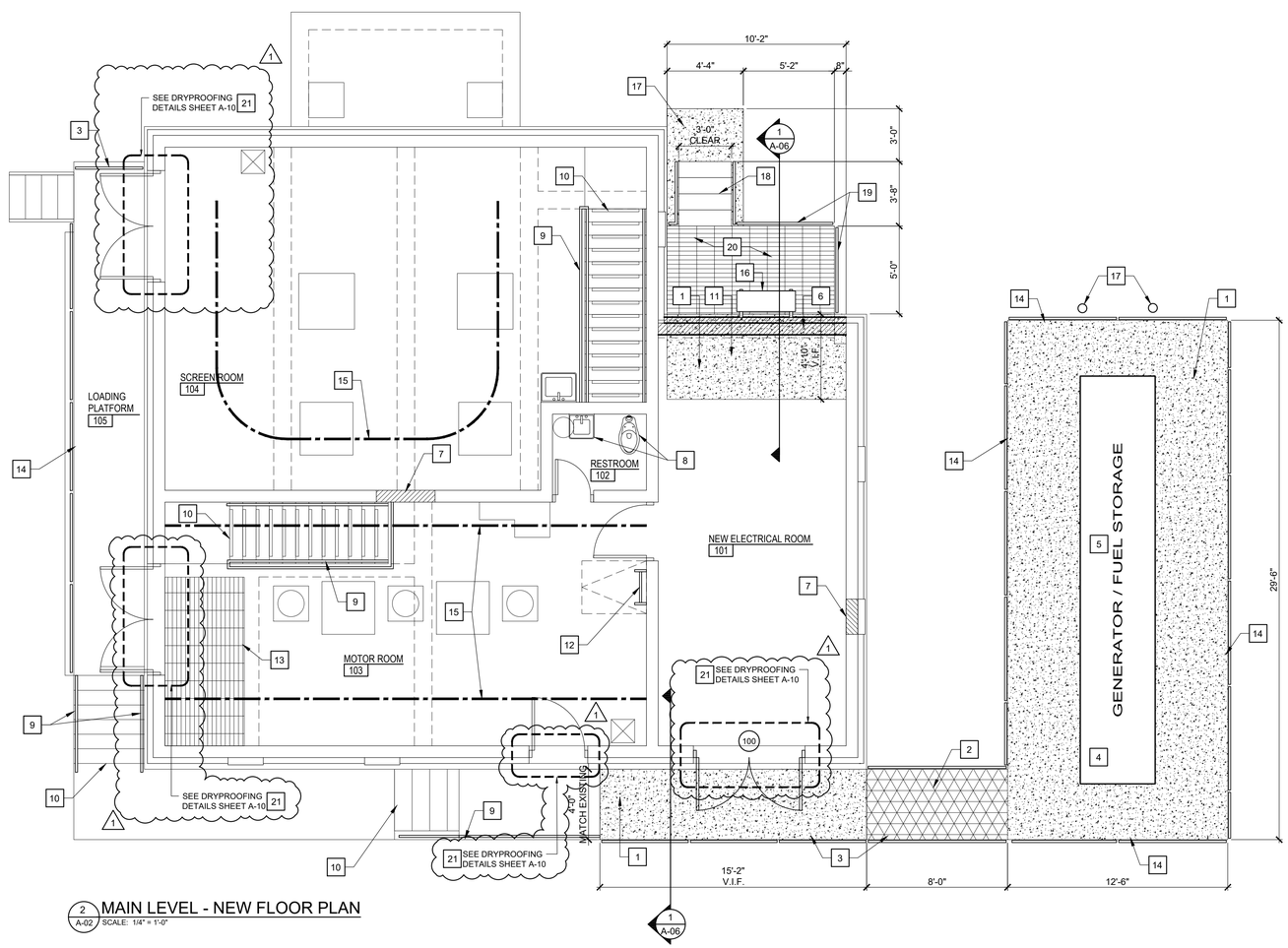



## DEMOLITION LEGEND

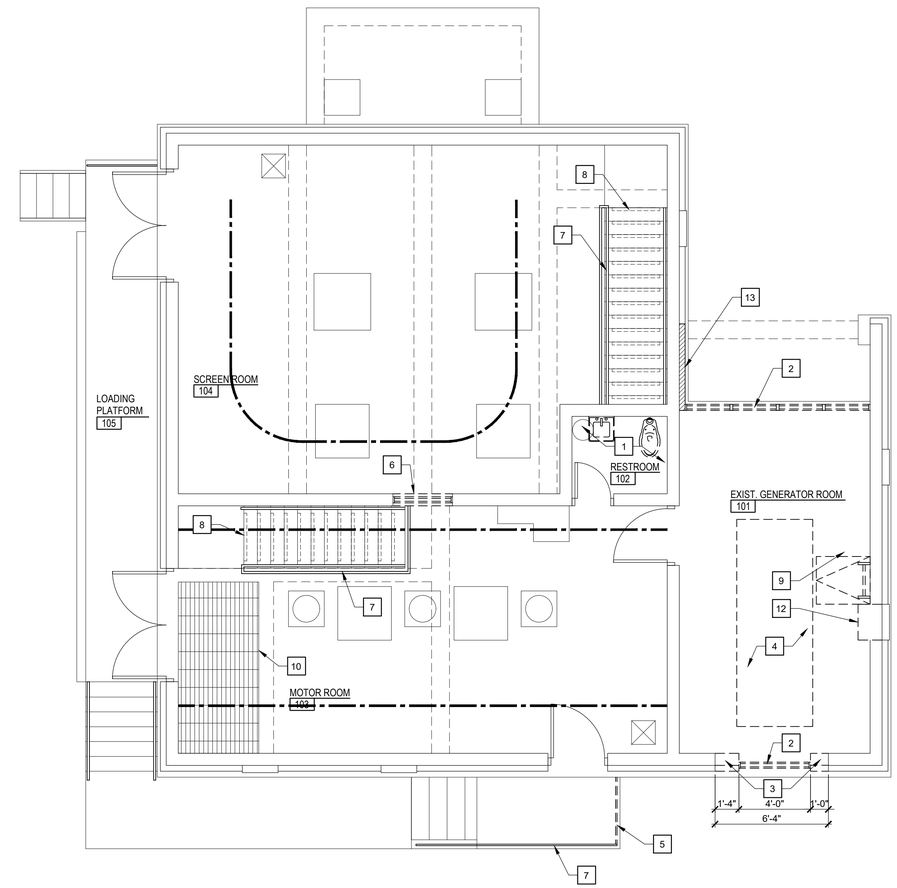
| | |
|---|---|
| 1 | KEY NOTE |
| # | NEW DOOR TAG. REFER TO DOOR SCHEDULE |

## KEY NOTES

1. REMOVE ALL FIXTURES IN RESTROOM
2. REMOVE EXISTING LOUVERS.
3. REMOVE PORTION OF WALL. REFER TO STRUCTURAL.
4. REMOVE EXISTING GENERATOR. REFER TO ELECTRICAL.
5. REMOVE PORTION OF EXISTING GUARDRAIL.
6. REMOVE EXISTING WINDOW AND PREP FOR C.M.U. INFILL
7. REMOVE EXISTING STAIR RAILINGS AND PREP FOR NEW RAILINGS.
8. REMOVE EXISTING ANTI-SLIP TREAD INSERTS AND PREP FOR NEW.
9. REMOVE EXISTING ROOF ACCESS LADDER. ROOF HATCH TO REMAIN. SEAL WATER TIGHT AND BOLT SHUT THE EXISTING ROOF HATCH IN THE CLOSE POSITION.
10. REMOVE EXISTING METAL GRATING AND PREP FOR NEW.
11. EXISTING STEEL HOIST BEAM ABOVE TO REMAIN.
12. REMOVE EXISTING EXHAUST FAN AND PREP WALL FOR NEW C.M.U. INFILL
13. REMOVE SECTION OF BRICK VENEER AS REQUIRED FOR EXPANSION OF BUILDING. NEW BRICK VENEER TO LINE UP WITH EXISTING BRICK VENEER.




2 A-02 MAIN LEVEL - NEW FLOOR PLAN
SCALE: 1/4" = 1'-0"




1 A-02 MAIN LEVEL - DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"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DESIGN ENGINEER
JOHN A. BAER
FLORIDA REGISTRATION NO.
AR93193


STATE OF FLORIDA JOHN A. BAER AR93193 REGISTERED ARCHITECT

| | |
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| DESIGNER: | J.A.B. |
| DRAWN BY: | Y.R.D. |
| DATE: | AUGUST 2018 |
| CHECKED BY: | J.A.B. |
| DATE: | AUGUST 2018 |

JEA Building Community sm

TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT
# MAIN LEVEL - DEMOLITION PLAN & NEW FLOOR PLAN

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| PROJ. NO. | J6609 |
| DATE: | AUGUST 2018 |
| SCALE: | 14" = 1'-0" |

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| NO. SHEETS | 47 |
| SHEET NO. | 28 |
| DRAWING NO. | A-02 |

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J:\J6609\Architecture\01_Architectural\J6609-02-A-02 Main Level - Demo & New Floor Plan - Copy.dwg Current Layout Tab = A-02 Fri Mar 05, 2021 - 14:13
Xrefs Attached= XR-J6609-HSP BUILDING [J:\XR-J6609-HSP BUILDING.dwg]
J6609 Border [J:\J6609 Border.dwg]

## LEGEND

| | |
|---|---|
| 1 | KEY NOTE |
| # | NEW DOOR TAG. REFER TO DOOR SCHEDULE |

## KEY NOTES

1. NEW 1-1/2" DIAMETER ALUMINUM STAIR RAILINGS TO MATCH EXISTING LOCATIONS.
2. NEW 1-1/2" DIAMETER ALUMINUM GUARD RAILS TO MATCH EXISTING LOCATIONS.
3. NEW ALUMINUM METAL GRATING TO MATCH EXISTING STYLE & SIZE.
4. NEW ANTI-SLIP TREAD INSERTS.

## DEMOLITION LEGEND

| | |
|---|---|
| 1 | KEY NOTE |
| # | NEW DOOR TAG. REFER TO DOOR SCHEDULE |

## KEY NOTES

1. REMOVE EXISTING STAIR RAILINGS AND PREP FOR NEW RAILINGS.
2. REMOVE EXISTING GUARDRAILS AND PREP FOR NEW GUARD RAILS.
3. REMOVE EXISTING METAL GRATING AND PREP FOR NEW.
4. REMOVE EXISTING EXISTING ANTI-SLIP TREAD INSERTS AND PREP FOR NEW.

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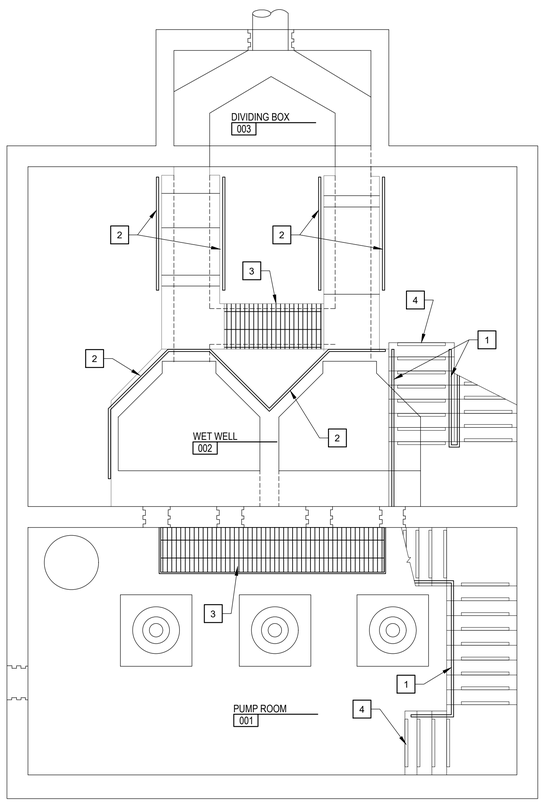
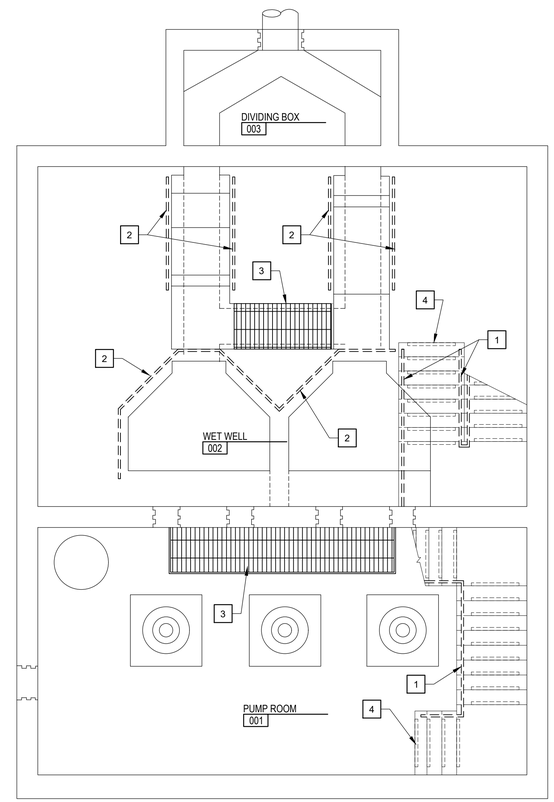



2 A-03 LOWER LEVEL - NEW FLOOR PLAN
SCALE: 1/4" = 1'-0"




1 A-03 LOWER LEVEL - DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"

N

STATE OF FLORIDA
JOHN A. BAER
AR93193
REGISTERED ARCHITECT


A Full Service A & E Firm
5200 Belfort Road Jacksonville, FL 32256
Phone: 904.357.2088
Licenses:
Eng. C.O.A. No. 3215 Arch. Lic. No. AA26000926
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JOHN A. BAER
FLORIDA REGISTRATION NO.
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| DESIGNER: | J.A.B. |
| DRAWN BY: | Y.R.D. |
| DATE: | AUGUST 2018 |
| CHECKED BY: | J.A.B. |
| DATE: | AUGUST 2018 |

JEA Building Community

TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT
LOWER LEVEL - DEMOLITION PLAN
& NEW FLOOR PLAN

| | |
|---|---|
| PROJ. NO. | J6609 |
| DATE: | AUGUST 2018 |
| SCALE: | 14" = 1'-0" |

| | |
|---|---|
| NO. SHEETS | 46 |
| SHEET NO. | 29 |
| DRAWING NO. | A-03 |

BID REVIEW


J:\J6609\Architecture\01_Architectural\J6609-03-A-03 Lower Level - Demo & New Lower Plan.dwg Current Layout Tab = A-02 Fri Mar 05, 2021 - 14:13
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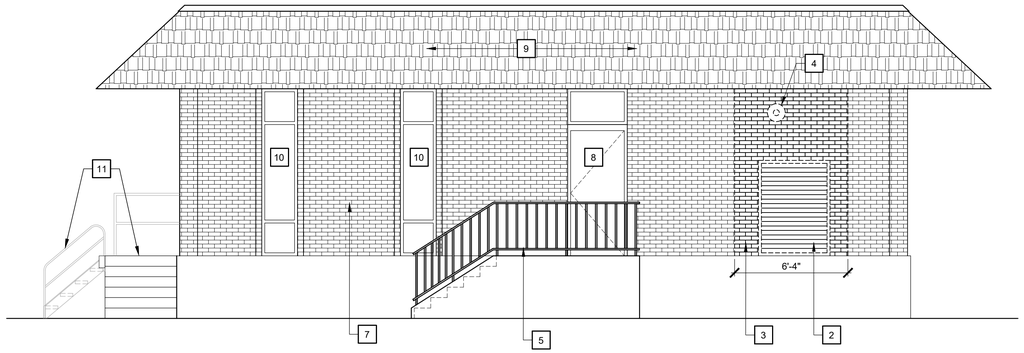
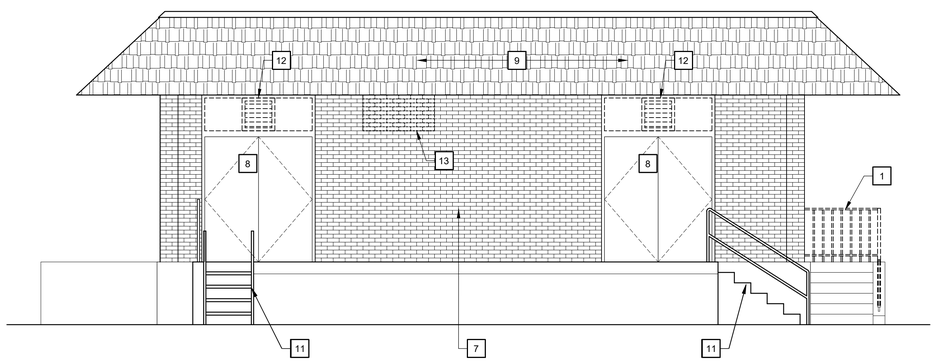
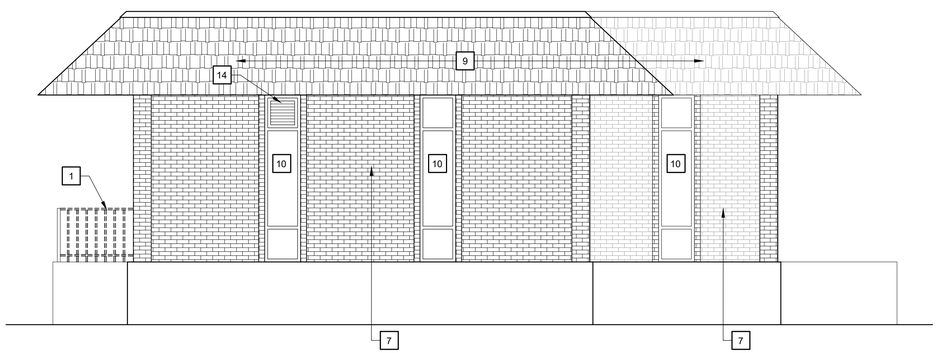
J6609 Border [.\J6609 Border.dwg]



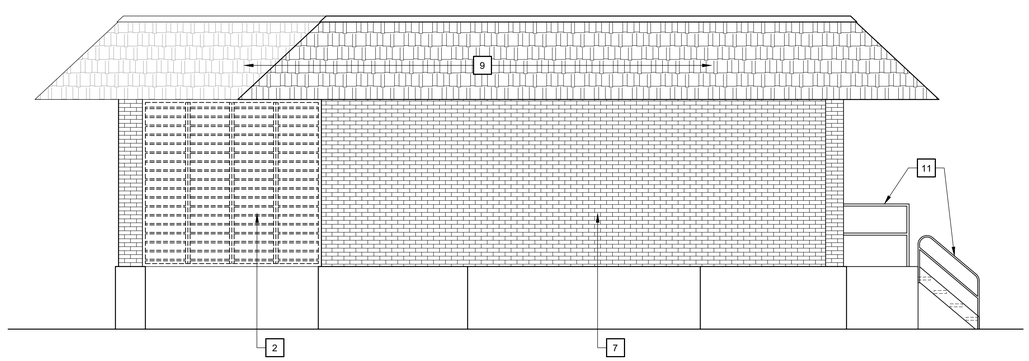

1 A-04 EXISTING SOUTH ELEVATION
SCALE: 1/4" = 1'-0"




2 A-04 EXISTING WEST ELEVATION
SCALE: 1/4" = 1'-0"




4 A-04 EXISTING EAST ELEVATION
SCALE: 1/4" = 1'-0"




3 A-04 EXISTING NORTH ELEVATION
SCALE: 1/4" = 1'-0"

## DEMOLITION KEY NOTES

1. REMOVE PORTION OF EXISTING GUARDRAIL.
2. REMOVE EXISTING LOUVERS.
3. REMOVE PORTION OF WALL. PREPARE OPENING FOR NEW DOOR. REFER TO STRUCTURAL.
4. REMOVE EXISTING VENT.
5. REMOVE EXISTING RAILING AND PREP FOR NEW 1-1/2" ALUMINUM RAILINGS.
6. NOT USED
7. EXISTING BRICK VENEER TO REMAIN
8. EXISTING DOORS TO REMAIN
9. EXISTING ROOF TO REMAIN
10. EXISTING WINDOW ELEMENTS TO REMAIN
11. EXISTING STAIRS AND RAILING TO REMAIN
12. REMOVE EXISTING LOUVER AND TRANSOM PANEL. PREP FOR NEW LARGER LOUVER. REFER TO H.V.A.C. DRAWINGS.
13. REMOVE SECTION OF EXISTING C.M.U. WALL & BRICK & PREP FOR NEW THRU WALL LOUVER. REFER TO H.V.A.C. DRAWINGS FOR LOUVER INFORMATION AND REFER TO STRUCTURAL DRAWINGS FOR NEW WALL OPENING DETAIL.
14. EXISTING EXHAUST FAN TO BE REMOVED.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5200 Belfort Road Jacksonville, FL 32256
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STATE OF FLORIDA
JOHN A. BAER
AR93193
REGISTERED ARCHITECT

DESIGN ENGINEER
JOHN A. BAER
FLORIDA REGISTRATION NO.
AR93193

DESIGNER: J.A.B.
DRAWN BY: Y.R.D.
DATE: AUGUST 2018
CHECKED BY: J.A.B.
DATE: AUGUST 2018

JEA Building Community

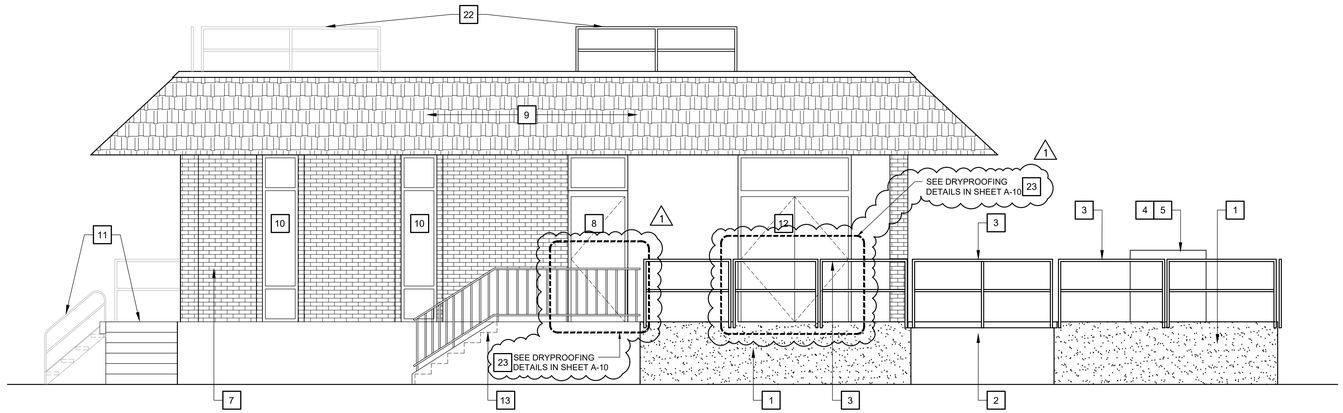
TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT
# DEMO EXTERIOR ELEVATIONS

PROJ. NO. J6609
DATE: AUGUST 2018
SCALE: 1/4" = 1'-0"

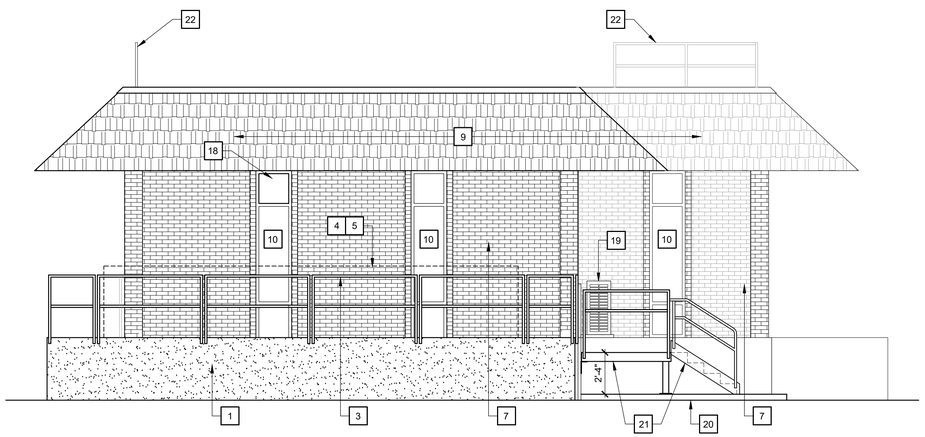
NO. SHEETS 46
SHEET NO. 30
DRAWING NO. A-04

BID REVIEW

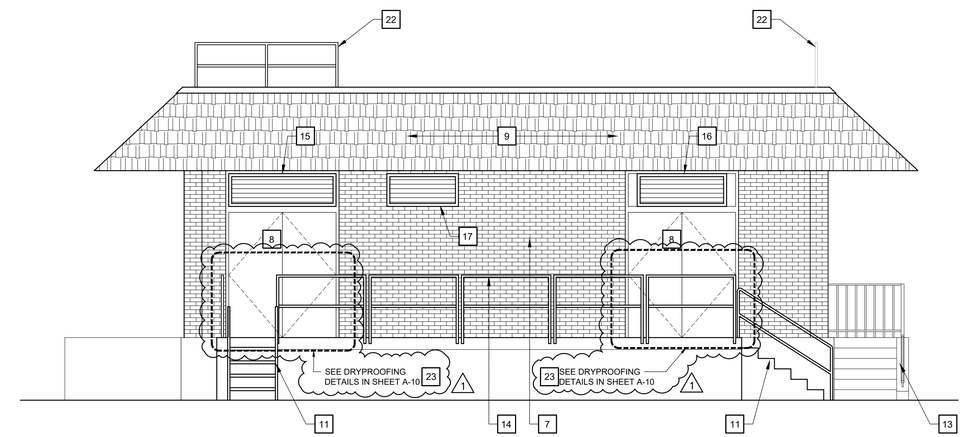
J:\J6609\Architecture\01_Architectural\J6609-04-A-04 Demo Exterior Elevations.dwg Current Layout Tab = A-04 Fri Mar 05, 2021 - 14:13
Xrefs Attached= xr-j6609-hsp building [.\xr-j6609-hsp building.dwg]
J6609 Border [.\J6609 Border.dwg]



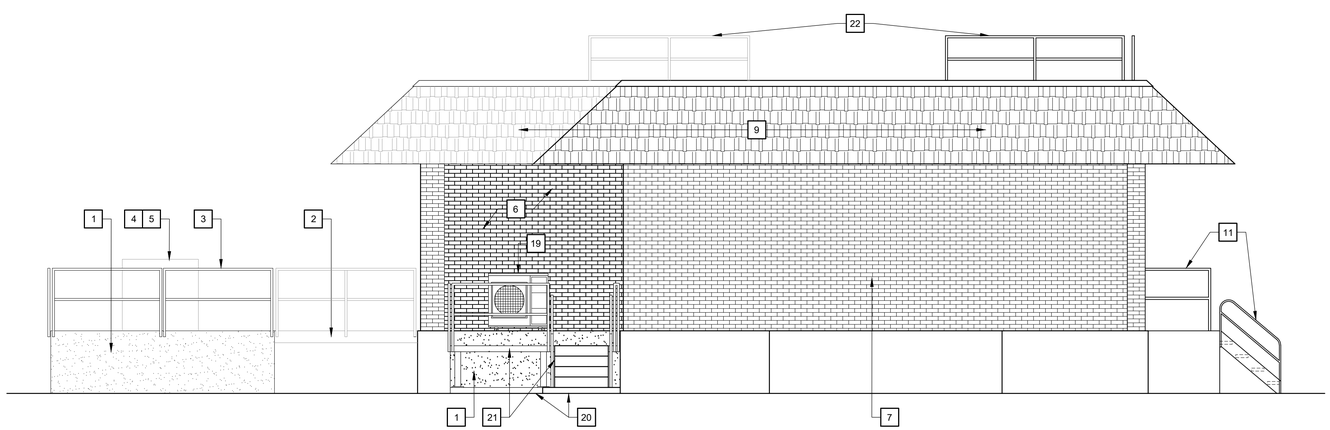

1 A-05 NEW SOUTH ELEVATION
SCALE: 1/4" = 1'-0"




2 A-05 NEW WEST ELEVATION
SCALE: 1/4" = 1'-0"




4 A-05 NEW EAST ELEVATION
SCALE: 1/4" = 1'-0"




3 A-05 NEW NORTH ELEVATION
SCALE: 1/4" = 1'-0"

## KEY NOTES

1. NEW CONCRETE SLAB AND FOUNDATION ABOVE GRADE TO MATCH EXISTING SLAB ELEVATION. REFER TO STRUCTURAL.
2. NEW 2" THICK METAL GRATED PLATFORM - WIDTH OF PLATFORM TO MATCH EXISTING LANDING WIDTH. NEW CONC LANDING TO HAVE RECESSED EDGE W/ STEEL ANGLE FOR PLATFORM TO SIT. REFER CIVIL FOR DETAIL.
3. NEW "REMOVABLE" 1-1/2" DIA. X 42" HIGH ALUM. GUARDRAIL AROUND ALL SIDES OF GENERATOR / FUEL STORAGE PLATFORM AND ALONG SOUTH SIDE OF BUILD TO EXISTING STAIRS.
4. NEW GENERATOR. REFER TO ELECTRICAL.
5. NEW FUEL STORAGE CONTAINER. REFER TO CIVIL.
6. NEW C.M.U. WALL WITH BRICK VENEER TO MATCH EXISTING EXTERIOR BRICK. REFER TO STRUCTURAL.
7. EXISTING BRICK VENEER TO REMAIN
8. EXISTING DOORS TO REMAIN
9. EXISTING ROOF TO REMAIN
10. EXISTING WINDOW ELEMENTS TO REMAIN
11. EXISTING STAIRS AND RAILING TO REMAIN
12. NEW DOUBLE DOORS WITH 24" TRANSOM - DOOR AND TRANSOM TO MATCH EXISTING.
13. NEW 1-1/2" DIAMETER ALUM. RAILINGS.
14. NEW "REMOVABLE" 1-1/2" DIA. X 42" HIGH ALUM. GUARDRAIL ALONG FULL WIDTH OF EXISTING LOADING PLATFORM.
15. NEW 72" LOUVER IN EXISTING TRANSOM OPENING. REFER TO H.V.A.C. DRAWINGS FOR SIZES.
16. NEW 60" LOUVER IN EXISTING TRANSOM OPENING. REFER TO H.V.A.C. DRAWINGS FOR SIZES.
17. NEW 48" LOUVER THRU NEW WALL OPENING REFER TO H.V.A.C. DRAWINGS FOR LOUVER INFORMATION AND REFER TO STRUCTURAL DRAWINGS FOR NEW WALL OPENING DETAIL.
18. INFILL C.M.U. WALL WHERE EXHAUST FAN WAS REMOVED. PATCH TRANSOM PANEL TO MATCH EXISTING ADJACENT TRANSOM PANEL.
19. H.V.A.C. CONDENSER UNIT MOUNTED ON WALL.
20. NEW 4" CONC. SLAB TO SUPPORT NEW MAINTENANCE PLATFORM.
21. NEW PRE-MANUFACTURED METAL MAINTENANCE PLATFORM WITH STAIRS. PROVIDE 42" H. GUARD RAILS AT THE PLATFORM AND 36" H. RAILINGS AT THE STAIRS.
22. NEW 30" TALL GUARD RAIL ATTACHED TO EXISTING 16" HIGH PARAPET. CONTRACTOR TO FIELD VERIFY THAT TOP OF INSTALLED GUARD RAIL IS A MIN. OF 42" ABOVE THE FINISHED ROOF SURFACE.
23. REFER TO SHEET A-10 FOR DRYPROOFING DETAILS.

BID REVIEW


A Full Service A & E Firm
5200 Belfort Road Jacksonville, FL 32256
Phone: 904.332.3959
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| 1. | YRD | 15.01.2021 | JEA/FDOT/CITY Review Comments |

DESIGN ENGINEER
JOHN A. BAER
FLORIDA REGISTRATION NO.
AR93193

DESIGNER: J.A.B.
DRAWN BY: Y.R.D.
DATE: AUGUST 2018
CHECKED BY: J.A.B.
DATE: AUGUST 2018

JEA Building Community

TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT
# NEW EXTERIOR ELEVATIONS

PROJ. NO. J6609
DATE: AUGUST 2018
SCALE: 1/4" = 1'-0"

NO. SHEETS 47
SHEET NO. 31
DRAWING NO. A-05


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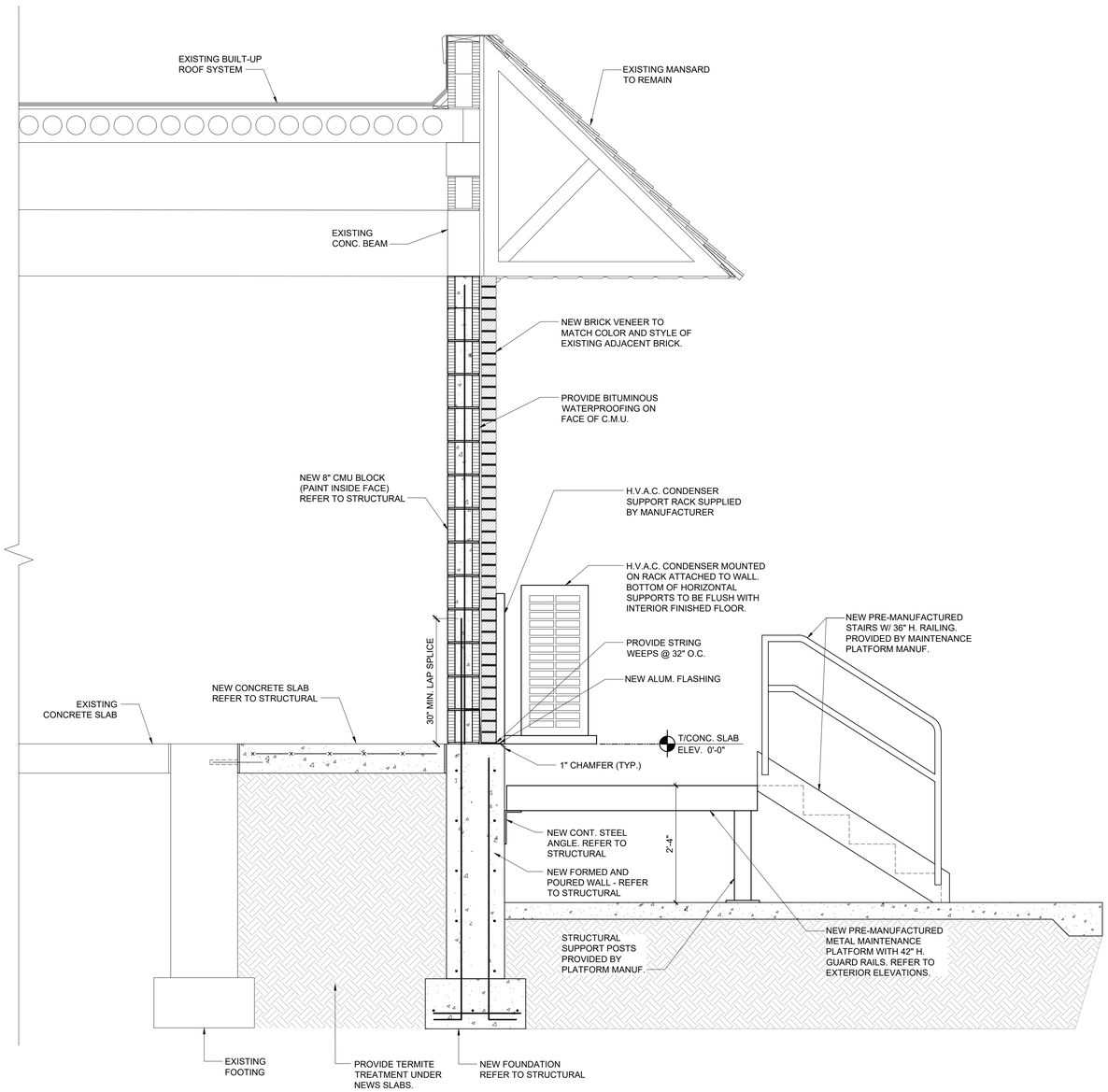
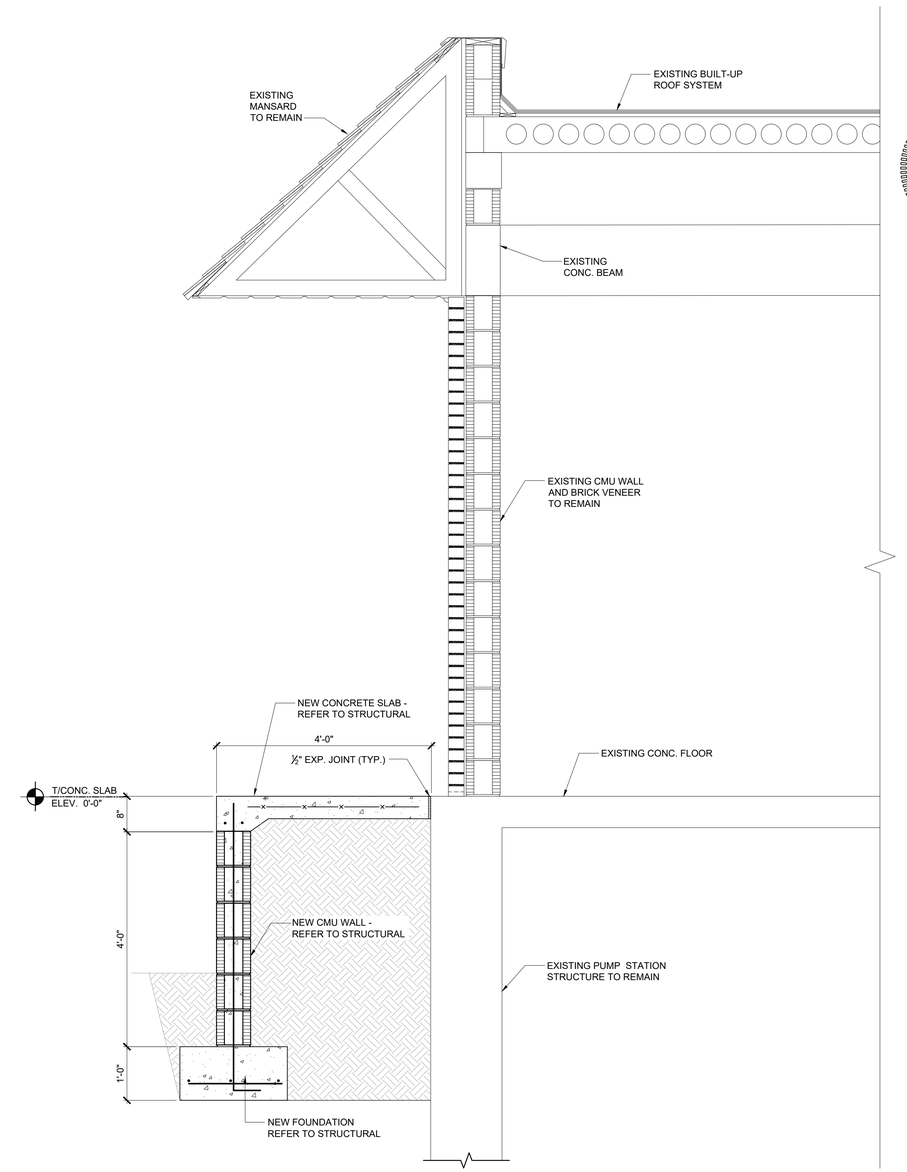
J6609 Border [.\J6609 Border.dwg]




2 A-06 SECTION AT NEW C.M.U. WALL
SCALE: 3/4" = 1'-0"




1 A-06 SECTION AT NEW WALKWAY
SCALE: 3/4" = 1'-0"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STATE OF FLORIDA JOHN A. BAER REGISTERED ARCHITECT AR93193

DESIGN ENGINEER
JOHN A. BAER
FLORIDA REGISTRATION NO.
AR93193

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|---|---|
| DESIGNER: | J.A.B. |
| DRAWN BY: | Y.R.D. |
| DATE: | AUGUST 2018 |
| CHECKED BY: | J.A.B. |
| DATE: | AUGUST 2018 |

JEA Building Community

TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT

# WALL SECTIONS

| | |
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| PROJ. NO. | J6609 |
| DATE: | AUGUST 2018 |
| SCALE: | 3/4" = 1'-0" |

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| NO. SHEETS | 46 |
| SHEET NO. | 32 |
| DRAWING NO. | A-06 |

BID REVIEW


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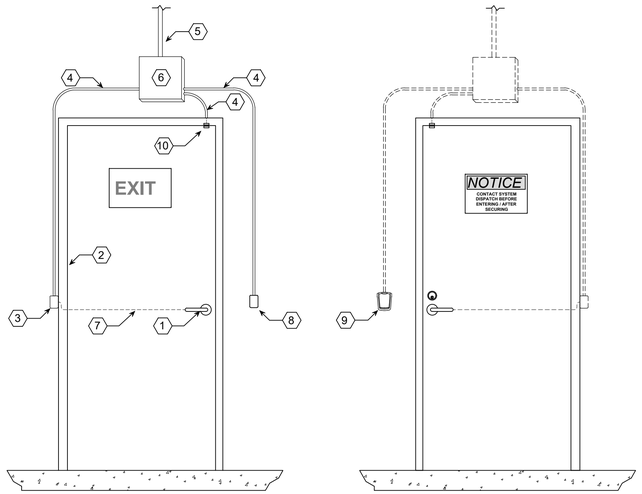
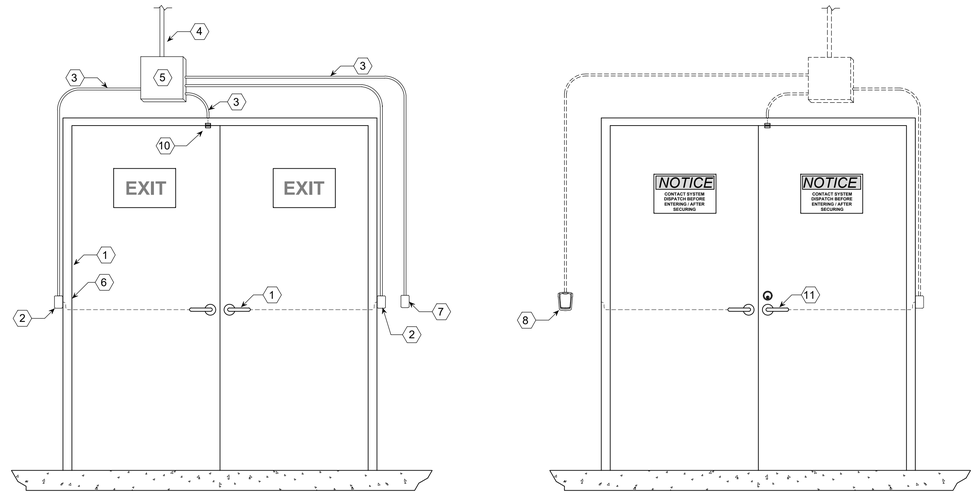
J6609 Border [.\j6609 border.dwg]




SECURE SIDE OF OPENING

UN-SECURE SIDE OF OPENING

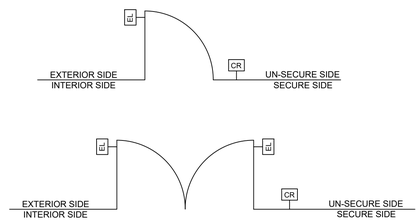
## TYPICAL SINGLE DOOR




SECURE SIDE OF OPENING

UN-SECURE SIDE OF OPENING

## TYPICAL DOUBLE DOOR




## OPERATIONAL NARRATIVE

| | |
|---|---|
| **INGRESS** | PRESENTING VALID CARD CREDENTIALS TO ACCESS CONTROL READER SHUNTS DOOR POSITION SWITCH (DPS) AND UNLOCKS FAIL SECURE ELECTRIFIED MORTISE LOCKSET, ALLOWING INGRESS. OUTSIDE TRIM OPERABLE BY KEY UNDER EMERGENCY SITUATION ONLY.<br><br>ALL ENTRY EVENTS (AUTHORIZED AND UNAUTHORIZED) ARE REPORTED TO AND RECORDED BY THE ACCESS CONTROL MANAGEMENT SYSTEM. |
| **EGRESS** | FREE MECHANICAL EGRESS AT ALL TIMES. LOCKSET INTEGRATED REQUEST TO EXIT SWITCH SHUNTS THE DPS, ALLOWING UNALARMED EGRESS.<br><br>ALL EXIT EVENTS (AUTHORIZED AND UNAUTHORIZED) ARE REPORTED TO AND RECORDED BY THE ACCESS CONTROL MANAGEMENT SYSTEM. |
| **FIRE ALARM** | OPENING DOES NOT CHANGE FUNCTION UNDER FIRE ALARM CONDITIONS. |
| **POWER** | POWER TO ALL ELECTRIFIED DEVICES AT OPENING TO BE SUPPLIED VIA REMOTELY MOUNTED LOW VOLTAGE POWER SUPPLY(S). |

STATE OF FLORIDA JOHN A. BAER AR93193 REGISTERED ARCHITECT

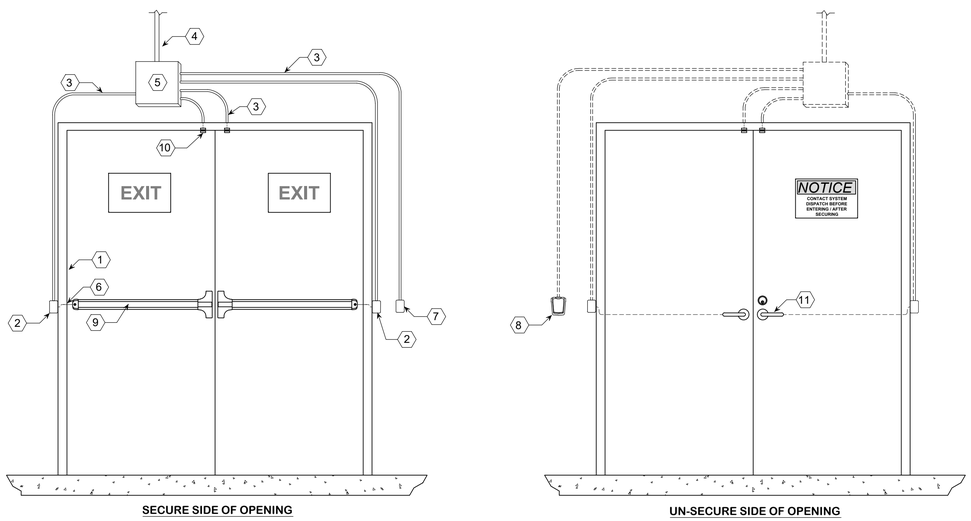
## KEYNOTE LEGEND

1. ELECTRIC LOCKSET WITH INTEGRATED REX (CORBIN RUSSWIN : ML20600).
2. FULL MORTISE CONTINUOUS HINGE WITH CEPT PREP AND ELECTRIC POWER TRANSFER DEVICE (PEMKO: CFMHD1SLF).
3. SURFACE MOUNTED SINGLE GANG JUNCTION BOX WITH PATHWAY THROUGH TO CONCEALED WIRE HARNESS.
4. 1/2" CONDUIT - SURFACE APPLIED.
5. SINGLE 1" CONDUIT TRUNK TO NEXT ACCESS CONTROL OPENING AND/OR HEADEND EQUIPMENT.
6. SURFACE MOUNTED METALLIC ENCLOSURE WITH COVER (HOFFMAN: ASE6X6X4).
7. WIRING HARNESS CONCEALED IN DOOR TO LOCKSET (ASSA ABLOY: QC12 ELECTROLYNX).
8. SURFACE MOUNTED SINGLE GANG JUNCTION BOX.
9. WALL MOUNTED ACCESS CONTROL READER (AMAG: PROXIMITY CARD READER).
10. SURFACE MOUNTED DPS (GEORGE RISK: 1100): WIRING ABOVE FRAME IN CONDUIT TO DEVICE.

## DRAWING GENERAL NOTES:

1. ABBREVIATIONS

1.1. AFF - ABOVE FINISH FLOOR
1.2. DPS - DOOR POSITION SWITCH
1.3. REX - REQUEST TO EXIT
1.4. NTS - NOT TO SCALE
1.5. CR - CARD READER
1.6. EL - ELECTRIC LOCKSET / TRIM




SECURE SIDE OF OPENING

UN-SECURE SIDE OF OPENING

## DOUBLE DOOR W/ PANIC HARDWARE

## OPERATIONAL NARRATIVE

| | |
|---|---|
| **INGRESS** | PRESENTING VALID CARD CREDENTIALS TO ACCESS CONTROL READER SHUNTS DOOR POSITION SWITCH (DPS) AND UNLOCKS FAIL SECURE ELECTRIFIED MORTISE LOCKSET, ALLOWING INGRESS. OUTSIDE TRIM OPERABLE BY KEY UNDER EMERGENCY SITUATION ONLY.<br><br>ALL ENTRY EVENTS (AUTHORIZED AND UNAUTHORIZED) ARE REPORTED TO AND RECORDED BY THE ACCESS CONTROL MANAGEMENT SYSTEM. |
| **EGRESS** | FREE MECHANICAL EGRESS AT ALL TIMES. EXIT DEVICE INTEGRATED REQUEST TO EXIT SWITCH SHUNTS THE DPS, ALLOWING UNALARMED EGRESS.<br><br>ALL EXIT EVENTS (AUTHORIZED AND UNAUTHORIZED) ARE REPORTED TO AND RECORDED BY THE ACCESS CONTROL MANAGEMENT SYSTEM. |
| **FIRE ALARM** | OPENING DOES NOT CHANGE FUNCTION UNDER FIRE ALARM CONDITIONS. |
| **POWER** | POWER TO ALL ELECTRIFIED DEVICES AT OPENING TO BE SUPPLIED VIA REMOTELY MOUNTED LOW VOLTAGE POWER SUPPLY(S). |

## KEYNOTE LEGEND

1. FULL MORTISE CONTINUOUS HINGE WITH CEPT PREP AND ELECTRIC POWER TRANSFER DEVICE (PEMKO: CFMHD1SLF).
2. SURFACE MOUNTED SINGLE GANG JUNCTION BOX WITH PATHWAY THROUGH TO CONCEALED WIRE HARNESS.
3. 1/2" CONDUIT - SURFACE APPLIED.
4. SINGLE 1" CONDUIT TRUNK TO NEXT ACCESS CONTROL OPENING AND/OR HEADEND EQUIPMENT.
5. SURFACE MOUNTED METALLIC ENCLOSURE WITH COVER (HOFFMAN: ASE6X6X4).
6. WIRING HARNESS CONCEALED IN DOOR TO EXIT DEVICE (ASSA ABLOY: QC12 ELECTROLYNX).
7. SURFACE MOUNTED SINGLE GANG JUNCTION BOX.
8. WALL MOUNTED ACCESS CONTROL READER (AMAG: PROXIMITY CARD READER).
9. EXIT DEVICE WITH INTEGRATED REX (CORBIN RUSSWIN: ED5000).
10. SURFACE MOUNTED DPS (GEORGE RISK: 1100): WIRING ABOVE FRAME IN CONDUIT TO DEVICE.
11. ELECTRIFIED FAIL SECURE TRIM (CORBIN RUSSWIN: x9905).

## DRAWING GENERAL NOTES:

1. ABBREVIATIONS

1.1. AFF - ABOVE FINISH FLOOR
1.2. DPS - DOOR POSITION SWITCH
1.3. REX - REQUEST TO EXIT
1.4. NTS - NOT TO SCALE
1.5. CR - CARD READER

BID REVIEW

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5200 Belfort Road Jacksonville, FL 32256
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DESIGN ENGINEER
JOHN A. BAER
FLORIDA REGISTRATION NO.
AR93193

| | | |
|---|---|---|
| DESIGNER: | J.A.B. | |
| DRAWN BY: | Y.F.D. | |
| DATE: | AUGUST 2018 | |
| CHECKED BY: | J.A.B. | |
| DATE: | AUGUST 2018 | |

JEA Building Community

TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT
# DOOR SECURITY NOTES AND ELEVATIONS

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| PROJ. NO. | J6609 |
| DATE: | AUGUST 2018 |
| SCALE: | 3/4" = 1'-0" |

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| NO. SHEETS | 46 |
| SHEET NO. | 33 |
| DRAWING NO. | A-07 |

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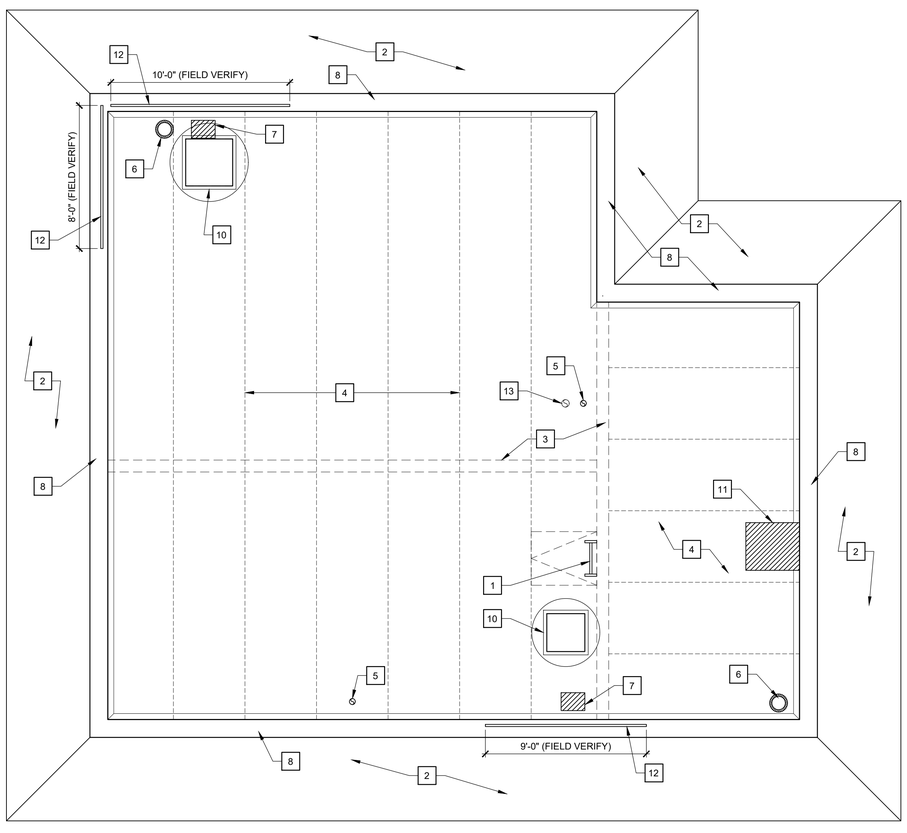
Xrefs Attached= XR-TB [J:\J6609 border.dwg]
XR-J6602-HSP BUILDING [J:\J6602\Architecture\01_Architectural\XR-J6602-HSP BUILDING.dwg]

## DEMOLITION LEGEND

| | |
|---|---|
| 1 | KEY NOTE |
| # | NEW DOOR TAG. REFER TO DOOR SCHEDULE |

## KEY NOTES

1. NEW ROOF MOUNTED EXHAUST FANS. REFER TO HVAC DRAWINGS.
2. EXISTING MANSARD ROOF TO REMAIN.
3. EXISTING CMU WALLS BELOW
4. EXISTING B.U.R. ROOFING OVER EXISTING 8" HOLLOW CORE CONCRETE ROOF PANELS.
5. EXISTING 4" VENT THRU ROOF TO REMAIN.
6. EXISTING ROOF DRAIN TO REMAIN.
7. EXISTING ROOF OPENING TO CLOSED IN. REFER TO STRUCTURAL DRAWINGS.
8. EXISTING PARAPETS TO REMAIN.
9. NEW ROOF HATCH AND ROOF LADDER. PATCH/REPAIR ROOF AS REQUIRED.
10. NEW ROOF CURBS AND EXHAUST FANS. REFER TO HVAC DRAWINGS.
11. INFILL EXISTING OPENING IN ROOF DECK. PATCH/REPAIR ROOF AS REQUIRED.
12. NEW 30" TALL GUARD RAIL ATTACHED TO EXISTING 16" HIGH PARAPET. CONTRACTOR TO FIELD VERIFY THAT TOP OF INSTALLED GUARD RAIL IS A MIN. OF 42" ABOVE THE FINISHED ROOF SURFACE. GUARD RAIL SHALL EXTEND MIN. 30" PAST EITHER EDGE OF EXHAUST FAN.
13. NEW 4" RESTROOM EXHAUST VENT UP THRU ROOF. FIELD VERIFY EXACT LOCATION FOR CORE DRILL.



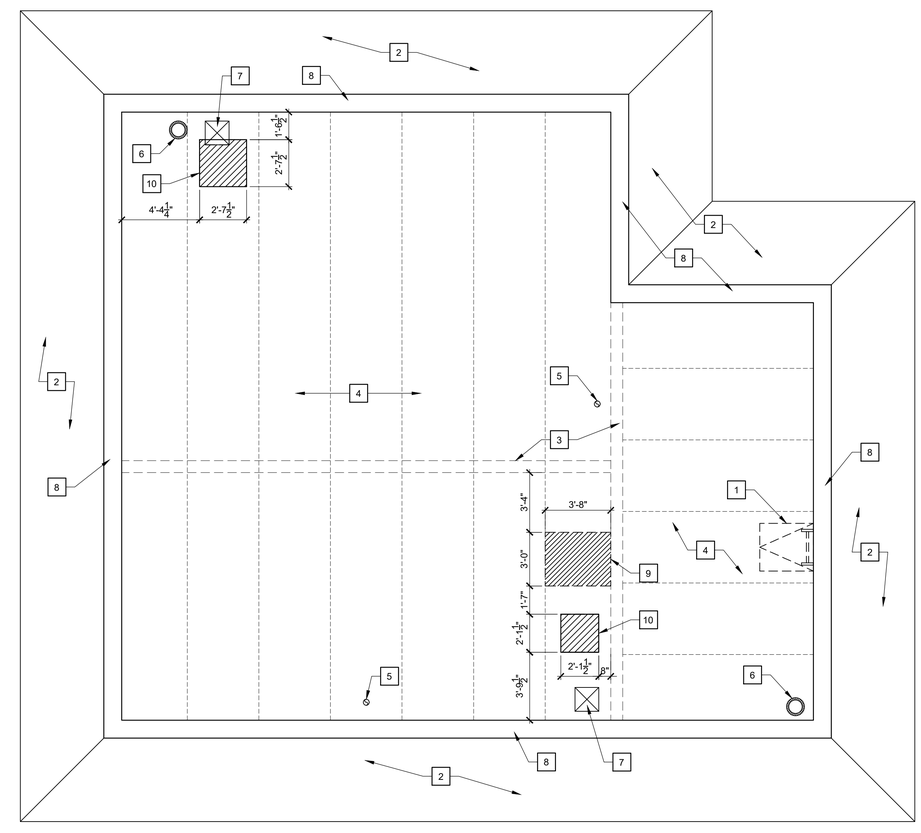

2 A-08 MAIN LEVEL - NEW ROOF PLAN
SCALE: 1/4" = 1'-0"

## DEMOLITION LEGEND

| | |
|---|---|
| 1 | KEY NOTE |
| # | NEW DOOR TAG. REFER TO DOOR SCHEDULE |

## KEY NOTES

1. REMOVE EXISTING ROOF HATCH AND LADDER. PATCH ROOF AS REQUIRED.
2. EXISTING MANSARD ROOF TO REMAIN.
3. EXISTING CMU WALLS BELOW
4. EXISTING B.U.R. ROOFING OVER EXISTING 8" HOLLOW CORE CONCRETE ROOF PANELS.
5. EXISTING 4" VENT THRU ROOF TO REMAIN.
6. EXISTING ROOF DRAIN TO REMAIN.
7. EXISTING 16" x 16" ROOF OPENING FOR EXHAUST TO REMAIN. REFER TO HVAC DRAWINGS.
8. EXISTING PARAPETS TO REMAIN.
9. CUT OUT ROOFING AND ROOF DECK FOR NEW ROOF TOP LADDER ACCESS.
10. CUT OUT ROOFING AND ROOF DECK FOR NEW ROOF TOP EXHAUST FAN.




1 A-08 MAIN LEVEL - DEMOLITION ROOF PLAN
SCALE: 1/4" = 1'-0"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STATE OF FLORIDA
JOHN A. BAER
AR93193
REGISTERED ARCHITECT

DESIGN ENGINEER
JOHN A. BAER
FLORIDA REGISTRATION NO.
AR93193

DESIGNER: J.A.B.
DRAWN BY: Y.R.D.
DATE: AUGUST 2018
CHECKED BY: J.A.B.
DATE: AUGUST 2018

JEA Building Community

TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT
DEMOLITION & NEW ROOF PLAN

PROJ. NO. J6609
DATE: AUGUST 2018
SCALE: 14" = 1'-0"

NO. SHEETS 46
SHEET NO. 34
DRAWING NO. A-08

BID REVIEW

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Xrefs Attached= XR-J6609-HSP BUILDING [.\XR-J6609-HSP BUILDING.dwg]
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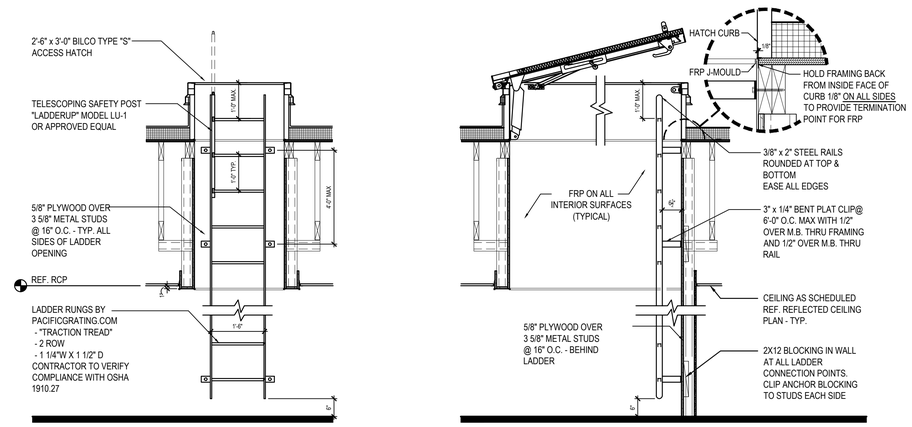
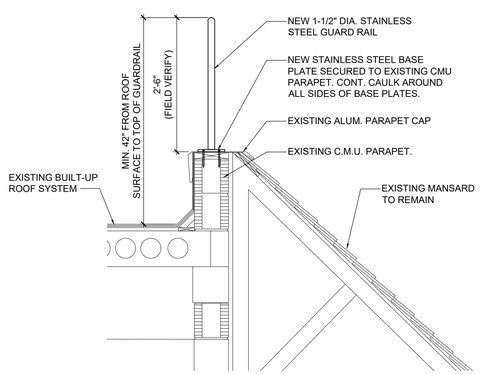
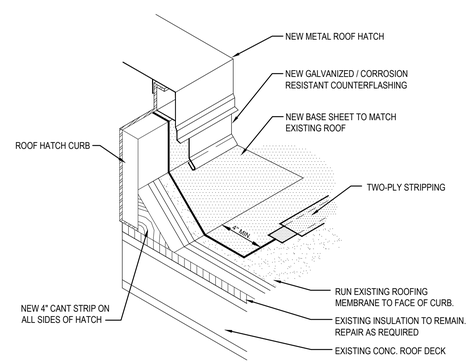


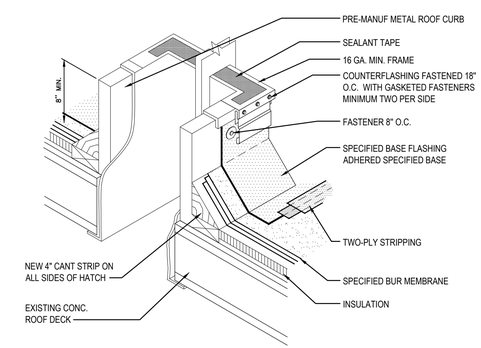

5 / A-09 ROOF TOP LADDER ACCESS DETAIL
SCALE: 1/2" = 1'-0"



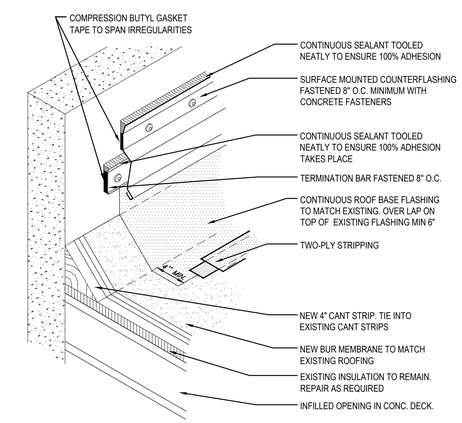

4 / A-09 ROOF TOP GUARDRAIL DETAIL
SCALE: 3/4" = 1'-0"




3 / A-09 ROOF DETAIL AT NEW ROOF HATCH
SCALE: 1-1/2" = 1'-0"




2 / A-09 ROOF DETAIL AT NEW EXHAUST FAN CURB
SCALE: 1-1/2" = 1'-0"




1 / A-09 ROOF DETAIL AT NEW ROOF HATCH
SCALE: 1-1/2" = 1'-0"

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gph
www.gphcorp.com
A Full Service A & E Firm
5200 Belfort Road Jacksonville, FL 32256
Phone: 904.357.2089
Licenses:
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STATE OF FLORIDA JOHN A. BAER REGISTERED ARCHITECT AR93193

DESIGN ENGINEER
JOHN A. BAER
FLORIDA REGISTRATION NO.
AR93193

DESIGNER: J.A.B.
DRAWN BY: Y.F.D.
DATE: AUGUST 2018
CHECKED BY: J.A.B.
DATE: AUGUST 2018

JEA Building Community sm

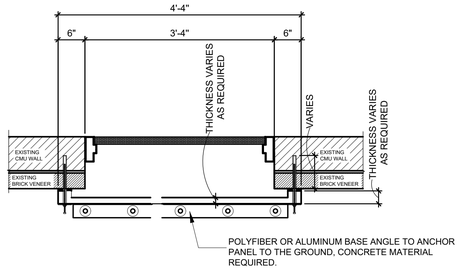
TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT

# ROOF DETAILS AND SECTIONS

PROJ. NO. J6609
DATE: AUGUST 2018
SCALE: 14" = 1'-0"

NO. SHEETS 46
SHEET NO. 35
DRAWING NO. A-09

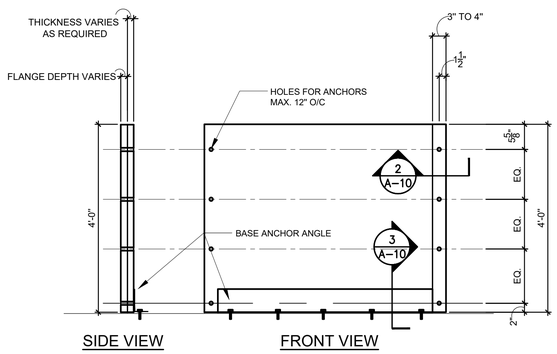

J:\J6609\Architecture\01_Architecture\J6609-09-A-09 Roof Details & Sections.dwg Current Layout Tab = A-02 Fri Mar 05, 2021 - 14:13
Xrefs Attached= XR-J6609-HSP BUILDING [\XR-J6609-HSP BUILDING.dwg]
J6609 Border [\J6609 Border.dwg]




PLAN VIEW C@ DOOR OPENING

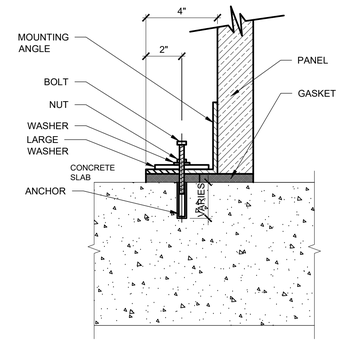
NOTE: BASIS OF DESIGN FLOOD RISK AMERICA

MANUFACTURER: FLOOD RISK AMERICA OR EQUAL
CONTACT INFORMATION: FLOOD RISK AMERICA, 720 LUCERNE AVENUE, SUITE 567, LAKE WORTH, FL 33460
561.578.4220 INFO@FLOODRISKAMERICA.COM




SIDE VIEW FRONT VIEW

NOTE: BASIS OF DESIGN FLOOD RISK AMERICA

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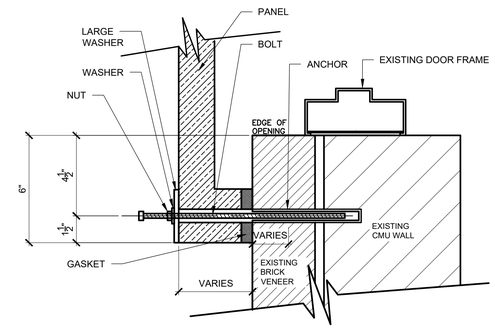


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MANUFACTURER: FLOOD RISK AMERICA OR EQUAL
CONTACT INFORMATION: FLOOD RISK AMERICA, 720 LUCERNE AVENUE, SUITE 567, LAKE WORTH, FL 33460
561.578.4220 INFO@FLOODRISKAMERICA.COM

1 A5.0 DRYPROOFING DOOR PANEL ATTACHMENT DETAIL
N.T.S.

2 A5.0 DRYPROOFING PANEL FLOOR CONNECTION DETAIL
N.T.S.

3 A5.0 DRYPROOFING PANEL WALL CONNECTION DETAIL
N.T.S.

**NOTE:**
1.EACH PANEL IS DESIGNED SPECIFICALLY FOR A CUSTOMIZED FABRICATION TO MEET INDIVIDUAL INSTALLATION REQUIREMENTS AND CUSTOM SHAPING AND CONTOURING TO MEET JOB-SPECIFIC DEMANDS; INCLUDING OPENING SIZES.


A Full Service A & E Firm
5200 Belfort Road Jacksonville, FL 32256
Phone: 904.357.2069
Licenses:
Eng. C.O.A. No. 3215 Arch. Lic. No. AA26000926
Survey L.B. No. 7143 Landscape L.A. No. LC26000288
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| 1. | YRD | 15.01.2021 | JEA/FDOT/CITY Review Comments |

STATE OF FLORIDA JOHN A. BAER REGISTERED ARCHITECT AR93193

DESIGN ENGINEER
JOHN A. BAER
FLORIDA REGISTRATION NO.
AR93193

DESIGNER: J.A.B.
DRAWN BY: Y.R.D.
DATE: AUGUST 2018
CHECKED BY: J.A.B.
DATE: AUGUST 2018

JEA Building Community sm

TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT

DRYPROOFING DETAILS

PROJ. NO. J6609
DATE: AUGUST 2018
SCALE: 3/4" = 1'-0"

NO. SHEETS 47
SHEET NO. 36
DRAWING NO. A-10

BID REVIEW


J:\j6609\Architecture\01_Architectural\j6609-10 -A-10 Drypropofing Details - Copy.dwg Current Layout Tab = A-06 Fri Mar 05, 2021 - 14:13
Xrefs Attached= xr-j6609-hsp building [.\xr-j6609-hsp building.dwg]
J6609 Border [.\j6609 border.dwg]

# GENERAL STRUCTURAL NOTES

DESIGN AND LOADING

1. THE STRUCTURAL DESIGN OF THIS BUILDING WAS BASED ON THE DESIGN CRITERIA:
   - A. BUILDING CODE: FLORIDA BUIILDING CODE 2017 6TH EDITION
   - B. FLOOR:
     LIVE LOAD: 100 PSF
   - C. 2ND FLOOR:
     LIVE LOAD: 100 PSF
     DEAD LOAD: 20PSF + CONCRETE PLANKS SELF WEIGHT
   - D. ROOF:
     LIVE LOAD: 20 PSF
     DEAD LOAD: 10 PSF + CONCRETE PLANKS SELF WEIGHT
   - E. WIND LOADS:
     BASIC WIND SPEED: 111 MPH (3-SECOND GUST)
     ULTIMATE WIND SPEED: 143 MPH (3 SECOND GUST)
     RISK CATEGORY: III
     WIND EXPOSURE CATEGORY: C
     PRESSURES PER ASCE7-10 - CH. 30 COMPONENTS & CLADDINGS
   - F FLOOD LOAD: N/A
   - G SPECIAL LOADS: N/A
   - H. AWNINGS: C & C WIND PRESSURES

MASONRY

CONCRETE BLOCK DESIGN AND CONSTRUCTION SHALL CONFORM TO"BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES," TMS 402/ACI 530/ASCE 5 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 602/ACI 530.1/ASCE 6)

1. MASONRY MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS:
   - A. HOLLOW LOAD BEARING CONCRETE BLOCK: ASTM C-90, GRADE N1. MINIMUM COMPRESSIVE STRENGTH = 1900 PSI AT 28 DAYS.
   - B. MORTAR: ASTM C-270, TYPE S. MINIMUM COMPRESSIVE STRENGTH = 1800 PSI AT 28 DAYS.
   - C. MORTAR: ASTM C-270, TYPE M. MINIMUM COMPRESSIVE STRENGTH = 2500 PSI AT 28 DAYS. (USED FOR BELOW GRADE WORK)
   - D. GROUT: ASTM C-476. MINIMUM COMPRESSIVE STRENGTH = 2000 PSI AT 28 DAYS
   - E. MASONRY REINFORCEMENT: ASTM A-82 GALVANIZED
   - F. MASONRY PRISM STRENGTH: F'm = 1500 PSI
2. PRIOR TO DELIVERY OF MASONRY UNITS TO THE JOB SITE, FURNISH TO THE OWNER AFFIDAVITS FROM AN APPROVED TESTING LABORATORY CERTIFYING THAT ALL UNITS CONFORM TO THEIR RESPECTIVE ASTM REQUIREMENTS.
3. GROUT ALL CAVITIES CONTAINING REINFORCEMENT IN LIFTS NOT TO EXCEED 5'-0".
4. LABORATORY PREPARED MIXES SHALL BE PREPARED AND TESTED IN ACCORDANCE WITH ASTM C-270. FIELD MORTAR SHALL BE TESTED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH ASTM C-780 TWO SETS OF THREE MORTAR CUBES SHALL BE TAKEN DIRECTLY FROM THE MIXER FOR EACH DAY OF MASONRY WORK. TEST THE CUBES AT 28 DAYS. ACCEPTANCE OF THE MORTAR SHALL BE AT THE DISCRETION OF THE ENGINEER.
5. CALCIUM CHLORIDE AND/OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE INCLUDED IN MORTAR OR GROUT MIX, EXCEPT WHEN APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. NO ANTI FREEZE COMPOUNDS SHALL BE USED TO LOWER THE MORTAR'S FREEZING POINT.
6. NO EXTERIOR MASONRY SHALL BE LAID WHEN THE OUTSIDE AIR TEMPERATURE IS LESS THAN 40 DEGREES FAHRENHEIT, UNLESS THE RECOMMENDATIONS SPECIFIED BY THE INTERNATIONAL MASONRY INDUSTRY ALL WEATHER COUNCIL IN THEIR PUBLICATION "RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR COLD WEATHER MASONRY" ARE STRICTLY FOLLOWED.
7. THE MASONRY CONTRACTOR SHALL PROVIDE BRACING TO WITHSTAND HORIZONTAL PRESSURES AS REQUIRED BY THE BUILDING CODE AND LOCAL ORDINANCE.

CONTRACTOR NOTES

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, CONDITIONS RELATED TO EXISTING CONSTRUCTION, AND EXISTING SERVICES IN THE FIELD PRIOR TO COMMENCING WORK. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES WHICH MAY EXIST.

ANY DISCREPANCIES BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER.

STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR.

SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
- A) SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.
- B) SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS.
- C) SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
- D) SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN.
- E) FLOOR AND ROOF FINISHES.
- F) DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
- A) PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
- B) ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
- C) CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL, OR PLUMBING FIXTURES.
- D) SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.

ATTACHMENT OF ALL MECHANICAL EQUIPMENT TO THE STRUCTURE, INCLUDING, BUT NOT LIMITED TO HVAC ROOFTOP UNITS, ROOFTOP UNIT CURBS, ETC. ARE THE RESPONSIBILITY OF THE MECHANICAL ENGINEER AND MECHANICAL CONTRACTOR.

EXPANSION BOLTING:

UNLESS NOTED OTHERWISE ON PLANS OR IN SECTIONS, ALL EXPANSION BOLTS IN CONCRETE SHALL BE "HILTI KWIK BOLT 3 EXPANSION ANCHORS". ANCHORS USED IN EXTERIOR APPLICATIONS SHALL BE HOT-DIP GALVANIZED CARBON STEEL OR STAINLESS STEEL.

EPOXY ANCHORING:

UNLESS NOTED OTHERWISE ON PLANS OR IN SECTIONS, ALL EPOXY ANCHORS FOR USE IN APPLICATIONS INVOLVING MASONRY SHALL BE EITHER:
- A) HILTI HIT HY 70 ADHESIVE ANCHORING SYSTEM.
- B) SIMPSON STRONG-TIE AT HIGH STRENGTH ACRYLIC-TIE ANCHORING ADHESIVE.

EPOXY ANCHORS NOTED ABOVE SHALL BE INSTALLED USING MESH SLEEVES, IF REQUIRED, PROVIDED BY THE MANUFACTURER FOLLOWING MANUFACTURERS INSTRUCTIONS.

UNLESS NOTED OTHERWISE ON PLANS OR IN SECTIONS, ALL EPOXY ANCHORS FOR USE IN APPLICATIONS INVOLVING CONCRETE SHALL USE EITHER:
- A) HILTI HIT HY 200 ADHESIVE ANCHORING SYSTEM.
- B) SIMPSON STRONG-TIE AT HIGH STRENGTH ACRYLIC-TIE ANCHORING ADHESIVE.

IN ALL CASES, ALTERNATE ANCHORS MAY BE CONSIDERED WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.

INSTALL ALL ANCHORS FOLLOWING MANUFACTURER'S INSTALLATION INSTRUCTIONS.

INSPECTION:

AN APPROVED INDEPENDENT TESTING LABORATORY SHALL PROVIDE INSPECTION AND TESTING SERVICES PER ASTM E329. REPORTS SHALL BE SENT DIRECTLY TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER AND CONTRACTOR. CONCRETE TEST REPORTS SHALL ALSO BE SENT TO THE READY MIX SUPPLIER. SUCH SERVICES SHALL INCLUDE:

FOUNDATIONS: BEARING SURFACE.
CONCRETE: DESIGN MIX DATA, DAILY POUR REPORTS, CYLINDER TESTS, ENTRAINED AIR TESTS AND TEMPERATURE. RECORD AND REPORT SLUMP FOR EACH TRUCK BEFORE AND AFTER ADDITION OF HRWR.
REINFORCEMENT: PLACEMENT, TYPE, SIZE AND GRADE OF STEEL.
STRUCTURAL STEEL: PLACEMENT AND CONNECTION.
MASONRY: MORTAR CUBES, MASONRY PRISMS, SIZE AND LOCATION OF PIERS, USE OF PROPER MASONRY UNITS, REINFORCING PLACEMENT AND GROUTING OPERATIONS.
EARTH FILL: CERTIFICATION OF ALL FILL MATERIAL AND IN-PLACE DENSITY TESTS.

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 110 OF FBC 2017 AND THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1704. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED 2012 IBC SECTIONS/LOCATIONS:
   - A. SOILS - SECTION 1704.7 PER TABLE 1704.7. & SECT. 8-22 OF CMDC.
   - B. CONCRETE - SECTION 1704.4 PER TABLE 1704.4.
   - C. STEEL - SECTION 1704.3 PER TABLE 1704.3. & SECT. 8-22 OF CMDC.
   - D. MASONRY - SECTION 1704.5 PER TABLE 1704.5.1. & SECT. 2122.4.

FABRICATION AND PLACEMENT SUBMITTALS:

DURING THE BIDDING PERIOD, PROMPTLY NOTIFY ARCHITECT IN WRITING IF, IN THE CONTRACTOR'S OPINION, ANY PORTION OF THE WORK, INCLUDING CONNECTIONS AND SPLICING OF MEMBERS, IS NOT CLEARLY INDICATED IN THE CONTRACT DOCUMENTS, OR IF THE DESIGN INTENT OF INDIVIDUAL MEMBERS, CONNECTIONS, AND THE STABILITY OF THE STRUCTURE AS A WHOLE ARE NOT CLEARLY UNDERSTOOD FROM THE DOCUMENTS.

SHOP DRAWINGS SHALL BE CHECKED AND COORDINATED WITH OTHER MATERIALS AND CONTRACTS BY THE GENERAL CONTACTOR AND BEAR CHECKER'S INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.

SHOP DRAWINGS ARE THEN TO BE SUBMITTED TO ARCHITECT FOR REVIEW PRIOR TO ENGINEERS REVIEW.

DOCUMENTS WILL SUBMITTED TO THE ENGINEER FOR REVIEW OF CONFORMANCE WITH THE PLANS AND SPECIFICATIONS AT LEAST 21 DAYS BEFORE REQUIRED FOR ORDERING OR INSTALLATION AT THE JOB SITE.

STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION DELAYS DUE TO INADEQUATE SCHEDULING OF SHOP DRAWING REVIEW.

THE STRUCTURAL SHOP DRAWING REVIEW IS INTENDED TO HELP THE ENGINEER VERIFY HIS DESIGN CONCEPT.

THE ENGINEER WILL REVIEW THE SHOP DRAWINGS FOR GENERAL DIMENSIONS AND ELEVATIONS, MEMBER SIZES, AND STRENGTH OF CONNECTIONS.

THE FOLLOWING SHOP DRAWINGS AND CALCULATIONS, WHEN APPLICABLE, ARE REQUIRED FOR SUBMITTAL FOR STRUCTURAL REVIEW:
- A) STRUCTURAL STEEL
- B) REBARS & SPLICED REINFORCING
- C) CONCRETE MIX DESIGN
- D) PRECAST PLANKS

PROPRIETARY PRODUCTS REQUIRE PHYSICAL PROPERTIES OF MATERIAL AND ANY PREPARATIONS FOR INSTALLATION OR APPLICATION METHODS.

CUSTOM FABRICATED ITEMS REQUIRE FABRICATION AND PLACEMENT DRAWINGS OF ALL MATERIALS. THESE DRAWINGS MUST INCLUDE PLANS AND DETAILS OF DECK MATERIAL WITH ANY INSTALLATION SEQUENCE; LOCATION OF JOINTS; FASTENING TYPE AND SPACING; AND PROPERTIES OF MATERIALS.

DESIGN CALCULATIONS ARE NECESSARY FOR ALL STRUCTURAL MEMBERS WITH DETAILS, LOCATIONS, AND LOADS ON ANY CONNECTIONS TO OTHER BUILDING MATERIALS.

AIR CONDITIONING, PLUMBING, AND OPERATING EQUIPMENT REQUIRE THE LOCATIONS OF ANY OPENINGS AND CONNECTION METHODS TO ANY STRUCTURAL PARTS OF THE BUILDING.

IF THE FABRICATOR HAS BEEN AUTHORIZED TO USE THE ARCHITECTURAL AND/OR STRUCTURAL ENGINEER'S DRAWINGS AS ERECTION DRAWINGS, THE FABRICATOR MUST REMOVE ALL TITLE BLOCKS, PROFESSIONAL SEALS, LOGOS AND ANY OTHER REFERENCES TO THE ARCHITECT AND ENGINEER FROM THAT ERECTION DRAWING.

THE FABRICATOR'S NAME AND TITLE SHALL BE PLACED ON THE DRAWINGS.

ANY SUBMITTAL OF A DETAIL SHEET WITH ADDED INFORMATION SHALL BE ACCOMPANIED BY LOCATION PLAN IDENTIFYING THE MEMBERS INVOLVED AND CLOUDING AROUND ADDED INFORMATION.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BE BY A REGISTERED STRUCTURAL ENGINEER, AND SUBMITTAL SHALL BE SEALED BY THE ENGINEER. THE ENGINEER MUST BE REGISTERED WITH THE STATE THE PROJECT IS LOCATED WITHIN.

CHANGES AND MODIFICATIONS:

SUBMIT WRITTEN REQUEST TO THE ARCHITECT FOR APPROVAL OF ANY PROPOSED CHANGE TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

SPLICING, CUTTING, NOTCHING AND OTHER ALTERATIONS TO STRUCTURAL MEMBERS IS PROHIBITED WITHOUT WRITTEN AUTHORIZATION OF THE STRUCTURAL ENGINEER.

ANY UNAUTHORIZED DEVIATION FROM THE CONTRACT DOCUMENTS, AND CORRECTION THEREOF, IS THE RESPONSIBILITY OF THE CONTRACTOR.

FOUNDATIONS:

DESIGN SOIL BEARING PRESSURE IS 2,500 PSF PER THE GEOTECHNICAL REPORT.

A GEOTECHNICAL REPORT ON THE SUBSURFACE SOILS CONDITIONS HAS BEEN PREPARED FOR THIS PROJECT BY TERRACON CONSULTANTS. INC. DATED JANUARY 11, 2018.

ALL CONTRACTORS INVOLVED WITH THE EXCAVATION, BACKFILL AND FOUNDATION CONSTRUCTION SHALL FAMILIARIZE THEMSELVES WITH THIS REPORT.

ALL WORK REGARDING SITE PREPARATION, EARTH FILL CONSTRUCTION, BACKFILL REQUIREMENTS, FOUNDATION PREPARATIONS, ETC., SHALL BE IN STRICT CONFORMANCE TO THE GEOTECHNICAL ENGINEER'S REPORT. THE REPORT IS PART OF THE CONTRACT DOCUMENTS.

FOUNDATION BEARING SURFACES SHALL BE INSPECTED UNDER THE DIRECTION OF THE PROJECT GEOTECHNICAL ENGINEER.

IF NOT OTHERWISE SPECIFIED IN GEOTECHNICAL REPORT, COMPACT ALL FILL TO 98% OF OPTIMUM LABORATORY DENSITY IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR METHOD.

ELEVATIONS OF THE EXISTING FOOTINGS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE DESIGNERS. IT IS ANTICIPATED THAT THERE WILL BE VARIATIONS BETWEEN THE ACTUAL EXISTING FOUNDATIONS AND WHAT IS SHOWN ON THE DRAWINGS.

THE FOOTINGS SHOWN ARE TO BE USED AS A BASIS FOR BIDDING.

UNIT COSTS AS SUBMITTED ON THE PROPOSAL FORM FOR IN-PLACE CONCRETE (CY), EXCAVATION (CY), AND REINFORCING STEEL (LB), SHALL APPLY TO ANY VARIATIONS IN THE FOUNDATIONS AND PIERS.

CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING, AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.

DO NOT BACKFILL AGAINST FOUNDATION OR BASEMENT WALLS UNTIL FLOOR SLAB/FRAMING IS IN PLACE OR PERMISSION IS OBTAINED FROM THE ARCHITECT.

EXCEPT FOR CANTILEVER RETAINING WALLS OR UNLESS NOTED OTHERWISE ON DRAWINGS, SUBGRADE WALLS ARE SUPPORTED BY THE FLOOR ABOVE AND BELOW. PROPER TEMPORARY BRACING MAY BE USED IN LEIU OF THE FLOOR SUPPORT BASED ON THE DESIGN BY A PROFESSIONAL ENGINEER.

ALL FOOTINGS ARE TO REST ON FIRM, LEVEL, UNDISTURBED SOIL OR ENGINEERED FILL, OF BEARING CAPACITY NOTED, REGARDLESS OF ELEVATIONS SHOWN ON DRAWINGS.

WHERE ROCK OR SHALE IS THE BEARING MATERIAL, PROVIDE 6" DEEP PENETRATION. ALL SOIL SURROUNDING AND UNDER FOOTINGS SHALL BE PROTECTED FROM FROST ACTION AND FREEZING DURING THE COURSE OF CONSTRUCTION.

IF FOUNDATIONS BEAR INTO SHALE OR ROCK, ELEVATIONS GIVEN ARE APPROXIMATE AND SHALL BE ADJUSTED TO SUIT FIELD CONDITIONS.

SHALE PROTECTION MAY BE REQUIRED. CONSULT GEOTECHNICAL REPORT.

BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 2'-6" BELOW FINISHED GRADE.

STEP BOTTOM OF FOOTING, WHERE REQUIRED, AT A RATE OF 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL. MAXIMUM VERTICAL STEP TO BE 2'-0".

WHERE FOOTINGS ARE IN CLOSE PROXIMITY OF SEWERS, BOTTOM OF FOOTINGS SHALL BE AT LEAST 8" BELOW INVERT ELEVATION OF SEWERS.

KEEP FOUNDATION EXCAVATIONS FREE OF WATER AT ALL TIMES.

USE LEAN CONCRETE (F'C=1500 PSI) FOR OVER-EXCAVATION OF FOOTINGS AND REPLACEMENT OF WEAKENED SOIL.

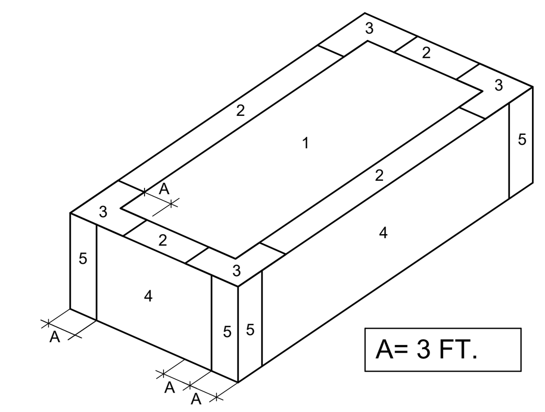
## ASCE 7-10 / ULTIMATE COMPONENT AND CLADDING ROOF PRESSURE

| ZONE | EFFECTIVE WIND AREA | COEFFICIENT | ULTIMATE DWP PNET (psf) | | NOMINAL DWP PNET (psf) | |
|---|---|---|---|---|---|---|
| 1 | 10 | 0.90 | 19.22 | -47.26 | 11.53 | -28.35 |
| 1 | 20 | 0.90 | 17.22 | -47.26 | 10.33 | -28.35 |
| 1 | 50 | 0.90 | 16.02 | -45.25 | 9.61 | -27.15 |
| 1 | 100 | 0.90 | 16.00 | -43.25 | 9.60 | -25.95 |
| | | | | | | |
| 2 | 10 | 0.90 | 19.22 | -79.29 | 11.53 | -47.58 |
| 2 | 20 | 0.90 | 17.22 | -71.28 | 10.33 | -42.77 |
| 2 | 50 | 0.90 | 16.02 | -59.27 | 9.61 | -35.56 |
| 2 | 100 | 0.90 | 16.00 | -51.26 | 9.60 | -30.76 |
| | | | | | | |
| 3 | 10 | 0.90 | 19.22 | -119.34 | 11.53 | -71.60 |
| 3 | 20 | 0.90 | 17.22 | -99.32 | 10.33 | -59.59 |
| 3 | 50 | 0.90 | 16.02 | -71.28 | 9.61 | -42.77 |
| 3 | 100 | 0.90 | 16.00 | -51.26 | 9.60 | -30.76 |

## ASCE 7-10 / ULTIMATE COMPONENT AND CLADDING WALL PRESSURE

| ZONE | EFFECTIVE WIND AREA | COEFFICIENT | ULTIMATE DWP PNET (psf) | | NOMINAL DWP PNET (psf) | |
|---|---|---|---|---|---|---|
| 4 | 10 | 0.90 | 47.26 | -51.26 | 28.35 | -30.76 |
| 4 | 20 | 0.90 | 45.25 | -49.26 | 27.15 | -29.55 |
| 4 | 50 | 0.90 | 42.05 | -46.45 | 25.23 | -27.87 |
| 4 | 100 | 0.90 | 40.05 | -44.05 | 24.03 | -26.43 |
| 4 | 200 | 0.90 | 38.45 | -42.45 | 23.07 | -25.47 |
| | | | | | | |
| 5 | 10 | 0.90 | 47.26 | -63.27 | 28.35 | -37.96 |
| 5 | 20 | 0.90 | 45.25 | -59.27 | 27.15 | -35.56 |
| 5 | 50 | 0.90 | 42.05 | -53.26 | 25.23 | -31.96 |
| 5 | 100 | 0.90 | 40.05 | -49.26 | 24.03 | -29.55 |
| 5 | 200 | 0.90 | 38.45 | -45.25 | 23.07 | -27.15 |

JOSE MIGUEL ORTIZ LICENSE No. 67920 STATE OF FLORIDA PROFESSIONAL ENGINEER
3/08/2021
JOSE MIGUEL ORTIZ, PE




WIND ROOF PRESSURE DIAGRAM


cph
www.cphcorp.com
A Full Service A & E Firm
5200 Belfort Road Jacksonville, FL 32256
Phone: 904.332.0999
Licenses:
Eng. C.O.A. No. 3215 Arch. Lic. No. AA2600926
Survey L.B. No. 7143 Landscape Lic. No. LC0000298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DESIGN ENGINEER: JOSE MIGUEL ORTIZ
FLORIDA REGISTRATION NO. 67920

DESIGNER: AF
DRAWN BY: IJR
DATE: AUGUST 2018
CHECKED BY: JMO
DATE: AUGUST 2018

JEA Building Community

TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT
STRUCTURAL GENERAL NOTES

PROJ. NO. J6609
DATE: AUGUST 2018
SCALE:

NO. SHEETS 51
SHEET NO. 37
DRAWING NO. S-01.0

BID REVIEW


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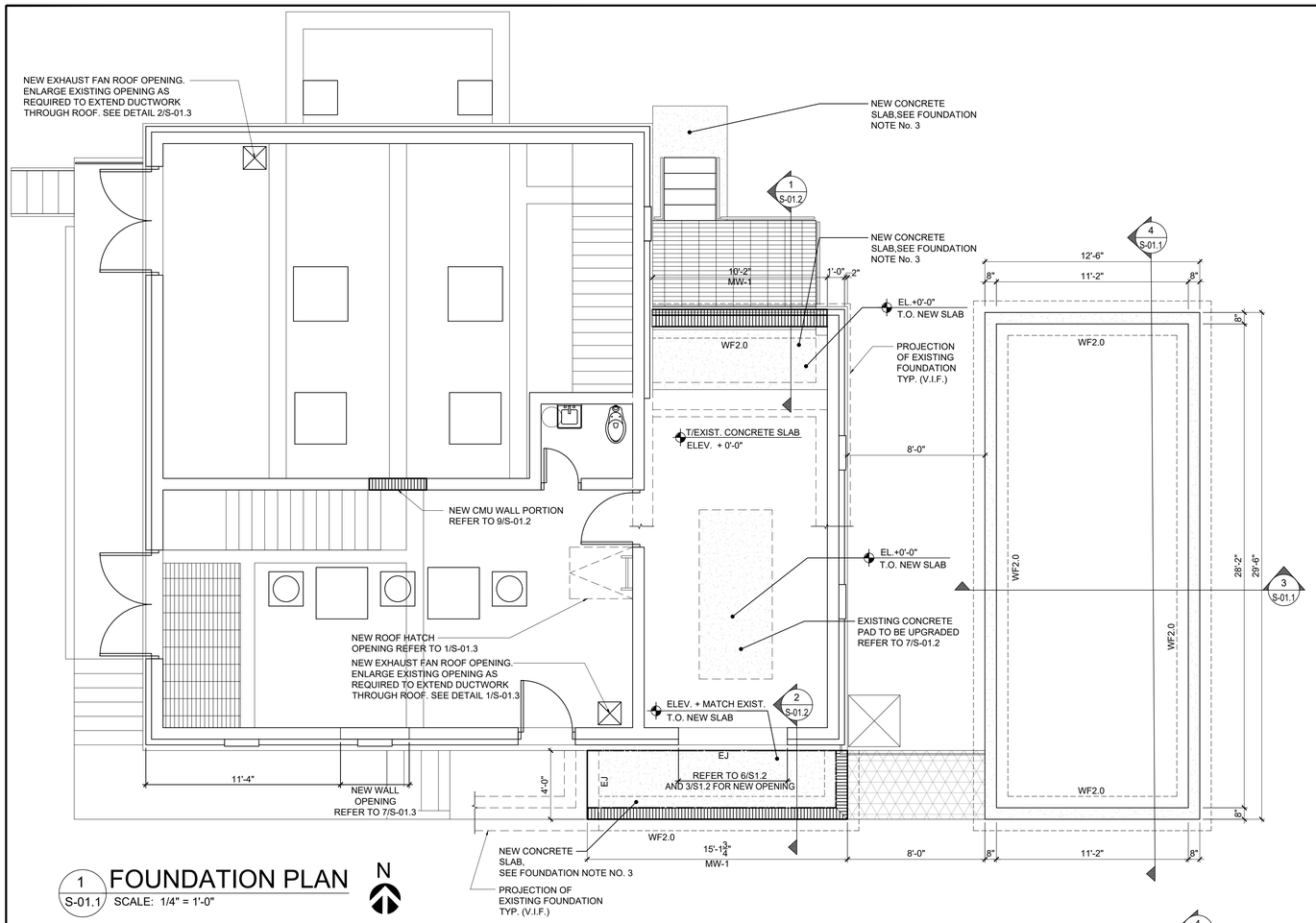
Xrefs Attached= j6609 border [..\..\01_Architectural\j6609 border.dwg]




1 S-01.1 FOUNDATION PLAN
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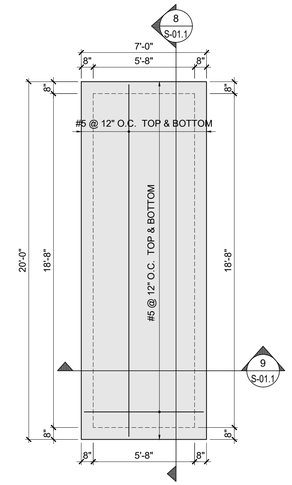
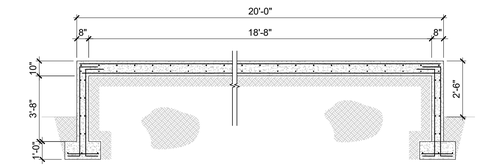
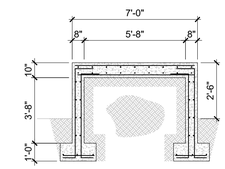



7 S-01.1 EMERG. PUMP PAD MTD. PLAN
SCALE: 1/4" = 1'-0"




8 S-01.1 SECTION
SCALE: 1/4" = 1'-0"




9 S-01.1 SECTION
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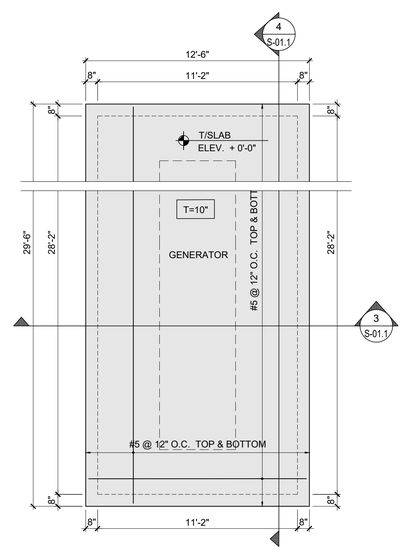


2 S-01.1 GENERATOR PAD MTD. ENLARGED PLAN
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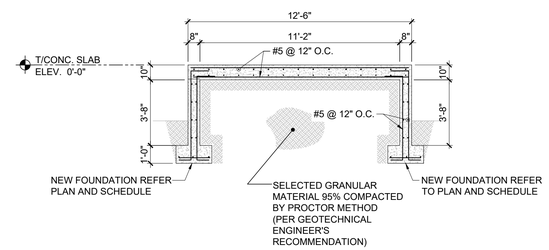


3 S-01.1 SECTION
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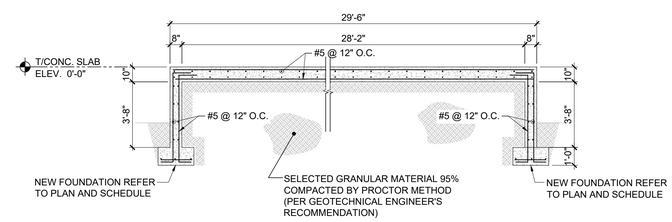


4 S-01.1 SECTION
SCALE: 1/4" = 1'-0"

## WALL TYPE LEGEND

INDICATES MW-1 MASONRY WALL. SEE SCHEDULE THIS SHEET FOR REINFORCEMENT INFORMATION.

## LEGEND

| | |
|---|---|
| WFX.0 | DENOTES CONTINUOUS WALL FOUNDATION. REFER TO SCHEDULE FOR DIMENSION AND REINFORCEMENT. |
| EJ | DENOTES EXPANSION JOINTS. |
| CC-X | DENOTES REINFORCED CONCRETE COLUMNS. REFER TO SCHEDULE FOR DIMENSIONS AND REINFORCEMENT. |
| MW-X | DENOTES MASONRY WALL. SEE SCHEDULE IN THIS SHHET FOR REINFOREMENT INFORMATION. |

## FOOTING SCHEDULE

| MK | FOOTING SIZE | REINFORCEMENT |
|---|---|---|
| WF2.0 | 2'-0"x1'-0" CONT. | (3)#5 CONT. BOTTOM W/#5@12" O.C. X 1'-6" |
| | | |

## MASONRY WALL SCHEDULE

| MARK | THICKNESS | REINFORCING |
|---|---|---|
| MW-1 | 8" CMU | #5 @ 40" O.C. VERT. |
| | | |

## MANSORY WALL NOTES

NOTES:

1. WALL SEGMENTS SHALL BE REINFORCED WITH 9 GA. STANDARD GALVANIZED LATERAL REINFORCING @ 16" O.C. HORIZONTAL. EXTEND REINFORCING 6" INTO POURED ELEMENTS AND AROUND ENCASED STEEL. PRODUCT BY WIREBOND OR APPROVED EQUAL.
2. ADJACENT TO ANY EXTERIOR WALL OPENING, PROVIDE 8" X 16" FULLY GROUTED CMU PIER W/ (1) #5 EACH CELL FULL HEIGHT.
3. ALL MASONRY REINFORCED CELLS SHALL BE FILLED WITH 3,000 PSI GROUT MIX.
4. REFER TO SHEET S-01.2 FOR WALL REINFORCEMENT DETAILS.

## FOUNDATION NOTES

1. ELEVATIONS NOTED ON PLAN ARE FROM REFERENCE FINISHED FLOOR ELEVATION 0'-0" UNLESS NOTED OTHERWISE.
2. TOP OF FOOTINGS @ EL. (-1'-4") MIN. BELOW TOP OF SLAB UNLESS NOTED OTHERWISE. BOTTOM OF FOOTING SHALL BE 32" MIN. BELOW ADJACENT FINISH GRADE. VERIFY ALL TOP OF FOOTING ELEVATIONS W/ ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION AND CONSTRUCTION.

FLOOR CONSTRUCTION:

3. 5" CONCRETE SLAB ON GRADE REINFORCED WITH 6x6-W2.1xW2.1 W.W.F. ON 10 MIL VAPOR BARRIER ON COMPACTED FILL AS NOTED ON GEOTHECNICAL REPORT.
4. SEE ARCHITECTURAL DRAWINGS FOR EXTENT AND FINISH OF SLAB ON GRADE AND ANY FLOOR DEPRESSION.
5. SEE TYPICAL CONCRETE SLAB DETAILS ON SHEET S-01.2
6. NOTE: FOUNDATION THICKNESS SHOWN ON PLAN OR IN SCHEDULE IS A MINIMUM ONLY.
7. COORDINATE ALL OPENINGS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.


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JOSE MIGUEL ORTIZ LICENSE No. 67920 STATE OF FLORIDA PROFESSIONAL ENGINEER
JOSE MIGUEL ORTIZ, PE 03/02/2021

DESIGN ENGINEER
JOSE MIGUEL ORTIZ
FLORIDA REGISTRATION NO.
67320

| | |
|---|---|
| DESIGNER: | AF |
| DRAWN BY: | UR |
| DATE: | AUGUST 2018 |
| CHECKED BY: | JMO |
| DATE: | AUGUST 2018 |

JEA Building Community

TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT
FOUNDATION AND SLAB LEVEL PLAN

| | |
|---|---|
| PROJ. NO. | J6609 |
| DATE: | AUGUST 2018 |
| SCALE: | 1/4" = 1'-0" |

| | |
|---|---|
| NO. SHEETS | 51 |
| SHEET NO. | 38 |
| DRAWING NO. | S-01.1 |

BID REVIEW


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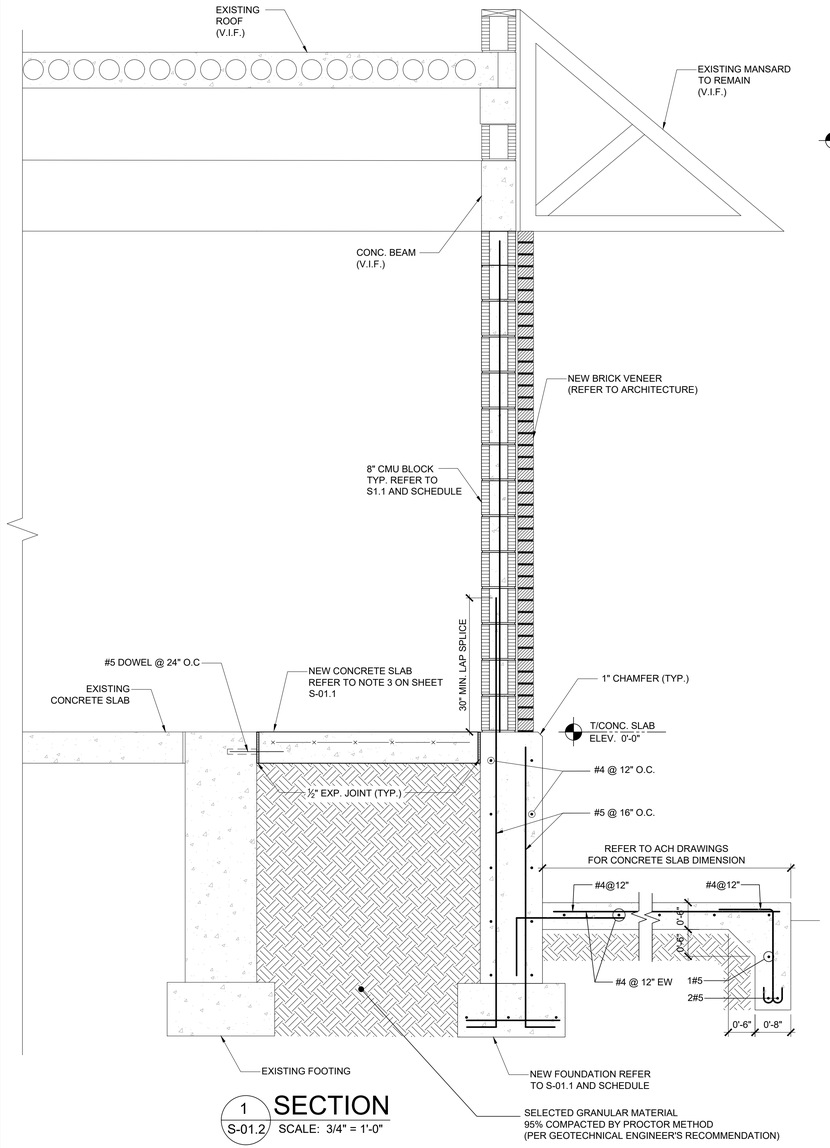


1 S-01.2 SECTION
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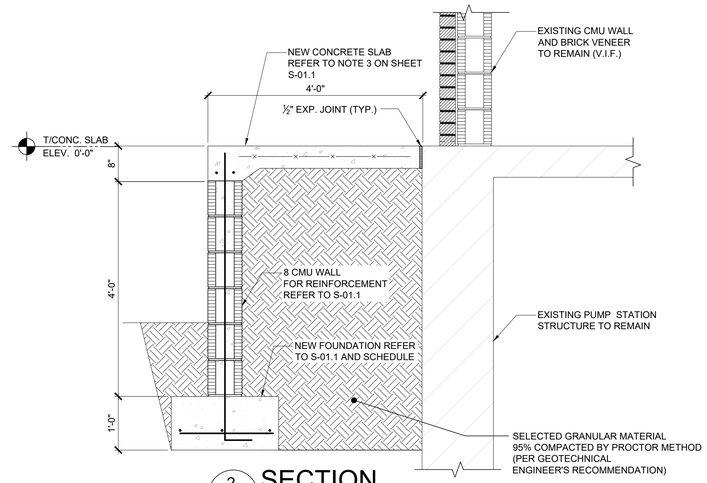


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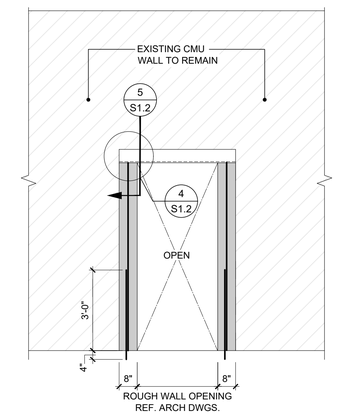
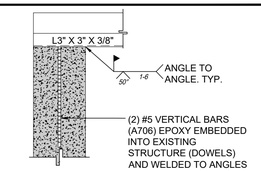



3 S-01.2 NEW DOOR OPENING DETAIL
SCALE: 3/4" = 1'-0"

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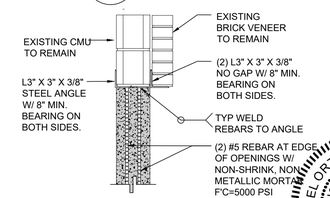
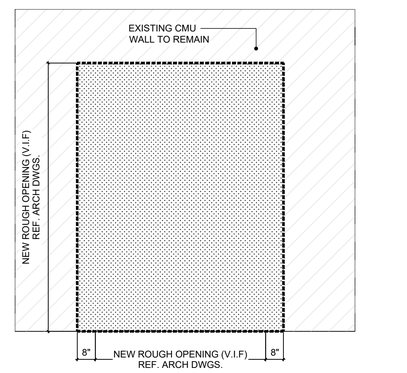


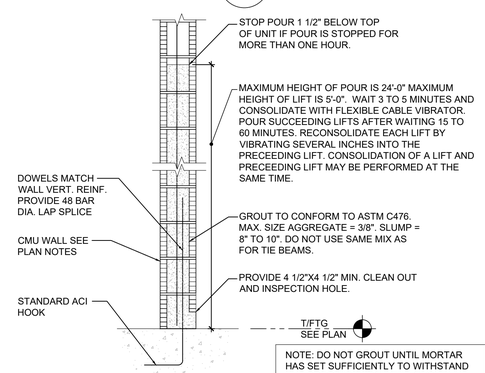

5 S-01.2 SECTION
SCALE: 3/4" = 1'-0"




DEMOLITION NOTES:

1- PROVIDE (2) #5 REBAR A706 AT EDGES OF OPENINGS W/ NON SHRINK, NON METALLIC MORTAR F'C=5000 PSI
2- PROVIDE 8" CONCRETE LINTEL WITH 8" MINIMUM BEARING ON BOTH SIDES.
3- EMBED VERTICAL REBAR INTO EXISTING SLAB (DOWELS) W/ HILTI HIT RE 500 EPOXY 4" MIN.
4-COORDINATE LOCATION OF MASONRY WALL OPENINGS WITH ARCHITECTURAL DRAWINGS.
5-REPAIR SLAB AT NEW DOOR OPENING AS NECESSARY.

6 S-01.2 SECTION
SCALE: 3/8" = 1'-0"

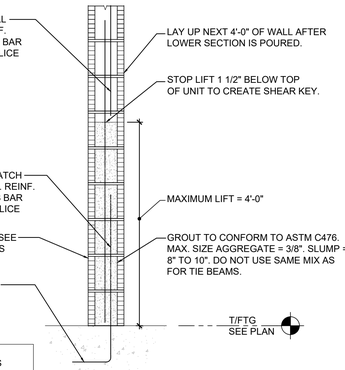



TYPICAL HIGH LIFT CMU GROUTING

NOTE: DO NOT GROUT UNTIL MORTAR HAS SET SUFFICIENTLY TO WITHSTAND THE PRESSURE FROM THE GROUT. WAIT NOT LESS THAN 24 HOURS.

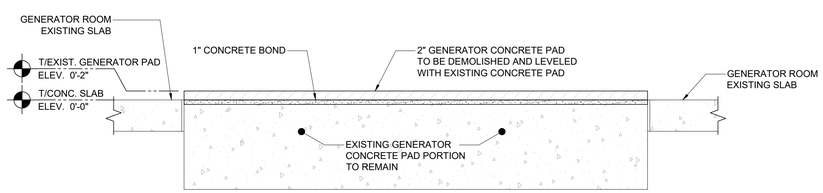
NOTE : FILL ALL BLOCK CELLS WITH 3000 P.S.I. CONCRETE BELOW GRADE

NOTE: THE CONTRACTOR MAY ELECT TO PLACE GROUT IN 8'-0" LIFTS PROVIDING THAT THE SLUMP OF THE GROUT IS BETWEEN 10" AND 11" WHILE THE MINIMUM COMPRESSIVE STRENGTH OF THE GROUT IS MAINTAINED AT 2500 PSI AND THERE ARE NO INTERMEDIATE REINFORCED BOND BEAMS PLACED BETWEEN THE TOP AND BOTTOM OF THE POUR. INSPECTION HOLES SHALL BE AT 4'-0" O.C. CONTRACTOR SHALL BRACE WALL AS REQUIRED DURING GROUTING PROCEDURES.

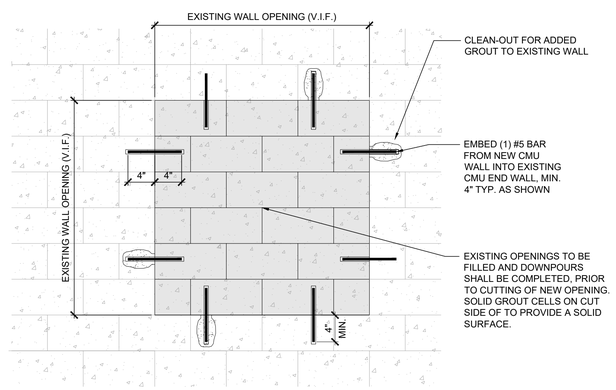



TYPICAL LOW LIFT CMU GROUTING

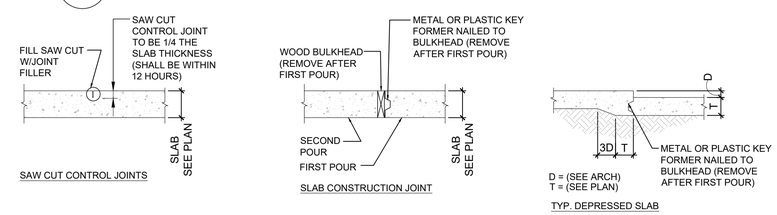
8 S-01.2 CMU WALL GROUTING DETAIL
SCALE: 3/4"=1'-0"




7 S-01.2 GENERATOR PAD RETROFITTED DETAIL
SCALE: 3/4" = 1'-0"




9 S-01.2 NEW WALL INFILL DETAIL (TYP.)
SCALE: 3/4" = 1'-0"




10 S-01.2 SLAB ON GRADE DETAILS (TYP.)
SCALE: 3/4" = 1'-0"

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DESIGN ENGINEER
JOSE MIGUEL ORTIZ
FLORIDA REGISTRATION NO.
67920

JOSE MIGUEL ORTIZ, P.E.
LICENSE No. 67920 STATE OF FLORIDA PROFESSIONAL ENGINEER
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| DESIGNER: | AF |
| DRAWN BY: | UR |
| DATE: | AUGUST 2018 |
| CHECKED BY: | JMO |
| DATE: | AUGUST 2018 |

JEA Building Community

TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT
STRUCTURAL SECTIONS AND DETAILS

| | |
|---|---|
| PROJ. NO. | J6609 |
| DATE: | AUGUST 2018 |
| SCALE: | 1/4" = 1'-0" |

| | |
|---|---|
| NO. SHEETS | 51 |
| SHEET NO. | 39 |
| DRAWING NO. | S-01.2 |


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XR-J6609 Foundation Plan [..\REF\XR-J6609 Foundation Plan.dwg]
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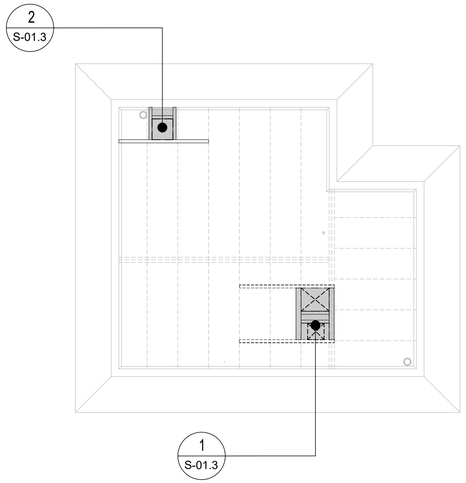
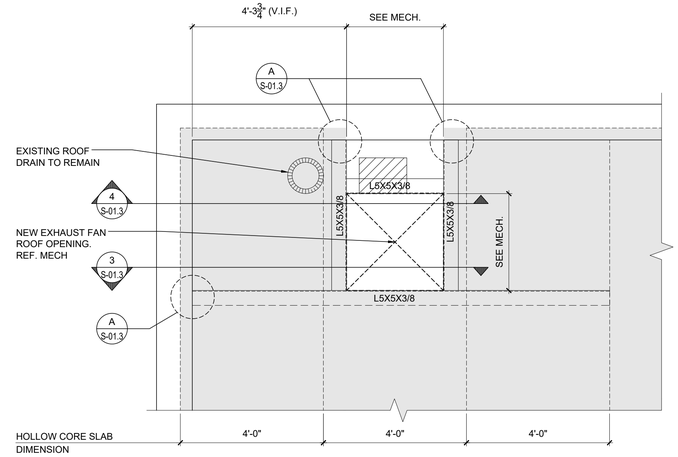



## ROOF LEVEL KEY PLAN
SCALE: N.T.S.

N




## 2 ROOF OPENING REINFORCING DETAIL
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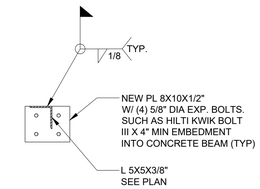
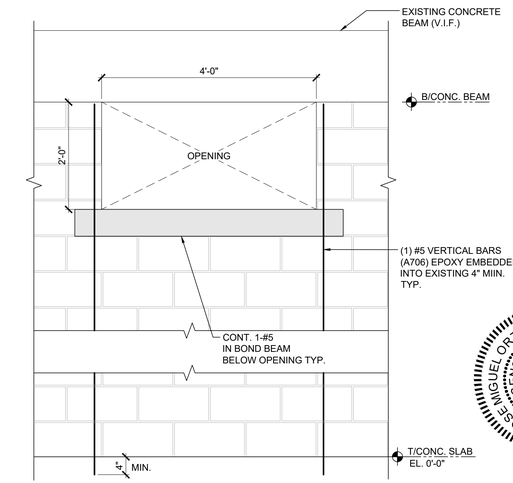
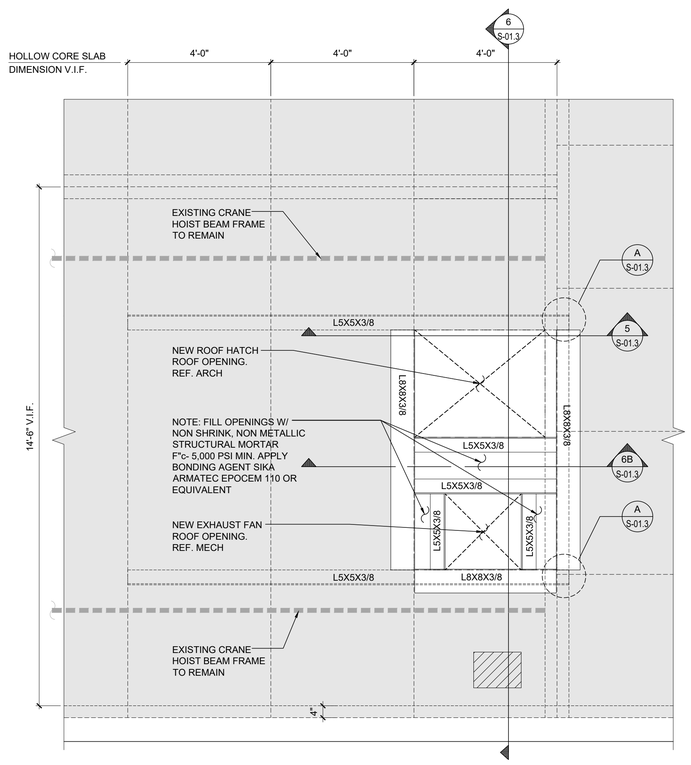


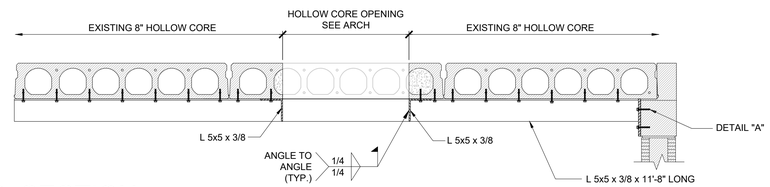

## A SECTION
S-01.3 SCALE: 3/4" = 1'-0"




## 7 NEW WALL OPENING DETAIL
S-01.3 SCALE: 3/4" = 1'-0"




## 1 ROOF OPENING REINFORCING DETAIL
S-01.3 SCALE: 1/4" = 1'-0"




## 3 SECTION
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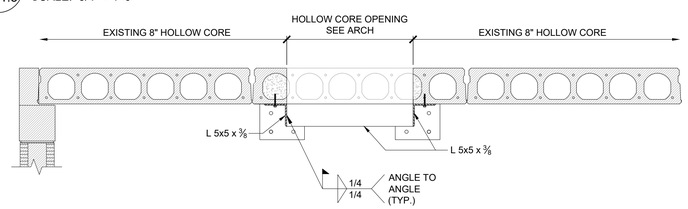


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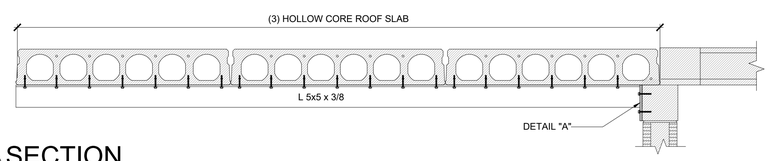


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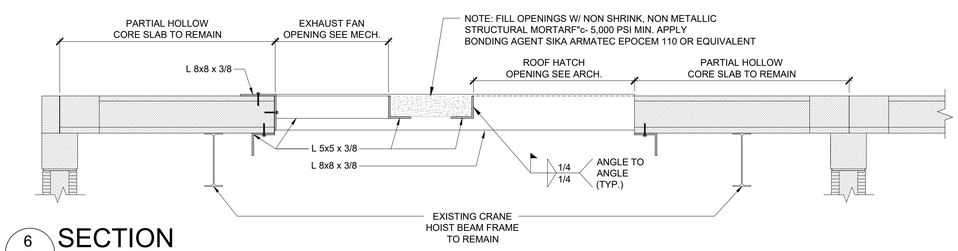


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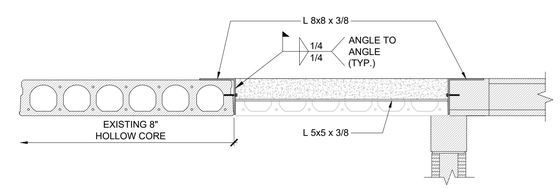


## 6B SECTION
S-01.3 SCALE: 1/4" = 1'-0"


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| 4. | | | |
| 3. | | | |

JOSE MIGUEL ORTIZ - PE
DESIGN ENGINEER
JOSE MIGUEL ORTIZ
FLORIDA REGISTRATION NO.
67320

DESIGNER: AF
DRAWN BY: LR
DATE: AUGUST 2018
CHECKED BY: JMO
DATE: AUGUST 2018

JEA Building Community

TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT
# WALL AND ROOF OPENING REIFORCING DETAILS

PROJ. NO. J6609
DATE: AUGUST 2018
SCALE: 1/4" = 1'-0"

NO. SHEETS 51
SHEET NO. 40
DRAWING NO. S-01.3

BID REVIEW


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XR-J6609 Foundation Plan [..\XREF\XR-J6609 Foundation Plan.dwg]
J6609 border [..\..\01_Architectural\J6609 border.dwg]

# SPLIT SYSTEM AIR CONDITIONER SCHEDULE

| TAG | INDOOR UNIT | | | | | | | | | | | | | | OUTDOOR UNIT | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AREA | TYPE | SA CFM | OA CFM | ESP IN. WC | COOLING CAPACITY | | | | SHIPPING WEIGHT (LBS) | FAN MOTOR WATTS | UNIT MCA | V/PH/HZ | FILTER TYPE | MFR MODEL | NOM. TONS | AMBIENT TEMP. | COMPRESSOR | | | CONDENSOR FAN | | | UNIT MCA | UNIT MOCP | V/PH/HZ | SHIPPING WEIGHT | MFR./MODEL | REFRIG. TYPE | NOTES | EER | SEER |
| | | | | | | TOTAL (MBH) | SENSIBLE (MBH) | EAT °F (DB/WB) | LAT °F (DB/WB) | | | | | | | | | QTY. | RLA (EA.) | LRA (EA.) | QTY. | HP (EA.) | FLA (EA.) | | | | | | | | | |
| AHU-1 | ELECTRICAL | VERTICAL | 975 | 0 | - | 36 | 27.7 | 80 / 67 | 59.5 / 58.2 | 172 | 430 | 5.5 | 208-230/1/60 | MERV8 | PVA-A36AA7 | 3.0 | 95 | 1 | 8 | 13 | 1 | 0.125 | 0.9 | 25 | 30 | 208-230/1/60 | 243 | PUY-A36NKA7-BS | R410A | - | 12.0 | 14.0 |

NOTES:

1. PROVIDE AUXILIARY DRAIN PAN WITH OVERFLOW SWITCH.
2. PROVIDE BRONZE GLOW HUSKY COATING ON EVAPORATOR COILS, CONDENSER COILS, AND ALL INTERCONNECTING PIPING.

# LOUVER SCHEDULE

| TAG | CFM | SIZE W"XH" | MAX. FPM | FREE AREA | BASIS OF DESIGN | NOTES |
|---|---|---|---|---|---|---|
| L-1 | 4680 | 72" X 24" | 782 | 5.99 | GREENHECK ESD-635D | 1,3 |
| L-2 | 3120 | 48" X 24" | 783 | 3.98 | GREENHECK ESD-635D | 1,3 |
| L-3 | 4315 | 60" X 24" | 867 | 4.92 | GREENHECK ESD-635D | 1,3 |
| | | | | | | |
| | | | | | | |

NOTES:
1. PROVIDE WITH HI-PRO POLYESTER COATING. COLOR: CONCRETE GRAY-RAL 7023
2. PROVIDE WITH EXTERNAL ALUMINUM BIRD SCREEN.
3. PROVIDE WITH EXTERNAL ALUMINUM INSECT SCREEN.

# DIFFUSER AND GRILLE SCHEDULE

| TAG | TYPE | CEILING TYPE | BASIS OF DESIGN | MODEL | AIR FLOW | FACE SIZE | NECK SIZE | NOTES |
|---|---|---|---|---|---|---|---|---|
| SD-1 | SUPPLY GRILLE | HARD | TITUS | 300FL | 1 TO 1200 CFM | 20x20 | 18x18 | 1 |
| | | | | | | | | |

NOTES:

1. PROVIDE WITH OPPOSED BLADE DAMPER ADJUSTABLE FROM THE FACE OF GRILLE.

# EXHAUST FAN SCHEDULE

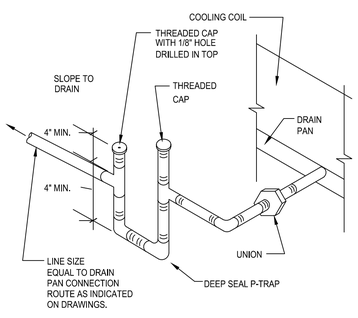
| UNIT | FAN TYPE | DRIVE TYPE | CFM | SP (IN WG) | SOUND DATA | RPM | MOTOR | | | | WEIGHT | MANUFACTURER MODEL | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | HP | BHP | VOLTS | PH | LBS | | |
| EF-1 | CEILING EXHAUST | DIRECT | 50 | 0.25 | 0.9 SONES | 679 | 24.1 W | | 115 | 1 | 26 | COOK GC-128 | 1,2,3 |
| EF-2 | DOWN BLAST | BELT | 7800 | 0.25 | 62 dBA | 504 | 1.5 | | 460 | 3 | 250 | COOK ACE-B | 4,5 |
| EF-3 | DOWNBLAST | BELT | 4265 | 0.25 | 60 dBA | 669 | 0.75 | | 460 | 3 | 128 | COOK ACE-B | 4,5 |

NOTES:
1. PROVIDE ISOLATION KIT.
2. PROVIDE ROOF CAP.
3. INTERLOCK WITH RESTROOM LIGHTS.
4. PROVIDE STAINLESS BIRD SCREEN.
5. PROVIDE HI-PRO POLYESTER COATING. CONCRETE GRAY-RAL 7023

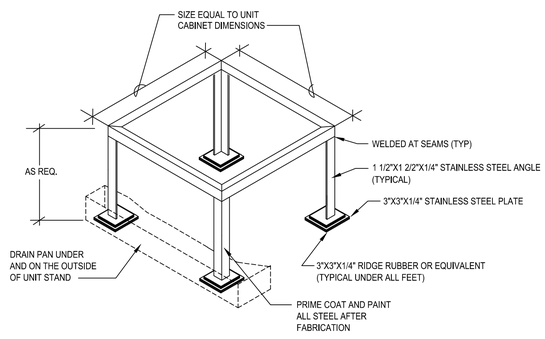
# OUTSIDE AIR CALCULATIONS

| UNIT | AREA SERVED | FLOOR AREA SQ.FT. | PEOPLE | CFM PER PERSON | CFM PER SQ.FT. | ZONE AIR DISTRIBUTION EFFECTIVENESS | REQUIRED CFM | DESIGNED CFM |
|---|---|---|---|---|---|---|---|---|
| EF-1 | RESTROOM | 23 | 1 | - | - | - | 50 EXHAHST | 50 EXHAUST |
| | | | | | | TOTAL | 50 EXHAUST | 50 EXHAUST |

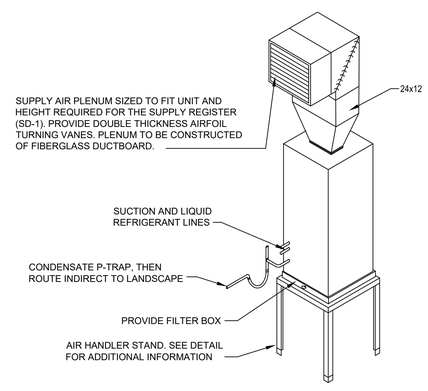
NOTES:
1. CALCULATION IS BASED ON 2017 FLORIDA MECHANICAL CODE TABLE 403.3.1.1.




4 M-0.1 CONDENSATE DRAIN DETAIL
SCALE: N.T.S.




3 M-0.1 STAINLESS STEEL ANGLE UNIT STAND DETAIL
SCALE: N.T.S.




2 M-0.1 VERTICAL AHU MOUNTING DETAIL
SCALE: N.T.S.


A Full Service A & E Firm
5200 Belfort Road Jacksonville, FL 32256
Phone: 904.363.7999
Licenses:
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| NO. | BY | DATE | REVISIONS |
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DESIGN ENGINEER: DAVID J. MELFI
FLORIDA REGISTRATION NO. 72405

| | | |
|---|---|---|
| DESIGNED: | JAD | |
| DRAWN BY: | JAD | |
| DATE: | AUGUST 2018 | |
| CHECKED BY: | DJM | |
| DATE: | AUGUST 2018 | |

JEA Building Community

TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT
MECHANICAL SCHEDULES & DETAILS

| | |
|---|---|
| PROJ. NO. | J6609 |
| DATE: | AUGUST 2018 |
| SCALE: | 14" = 1'-0" |
| NO. SHEETS | 50 |
| SHEET NO. | 40 |
| DRAWING NO. | H-01 |

BID REVIEW


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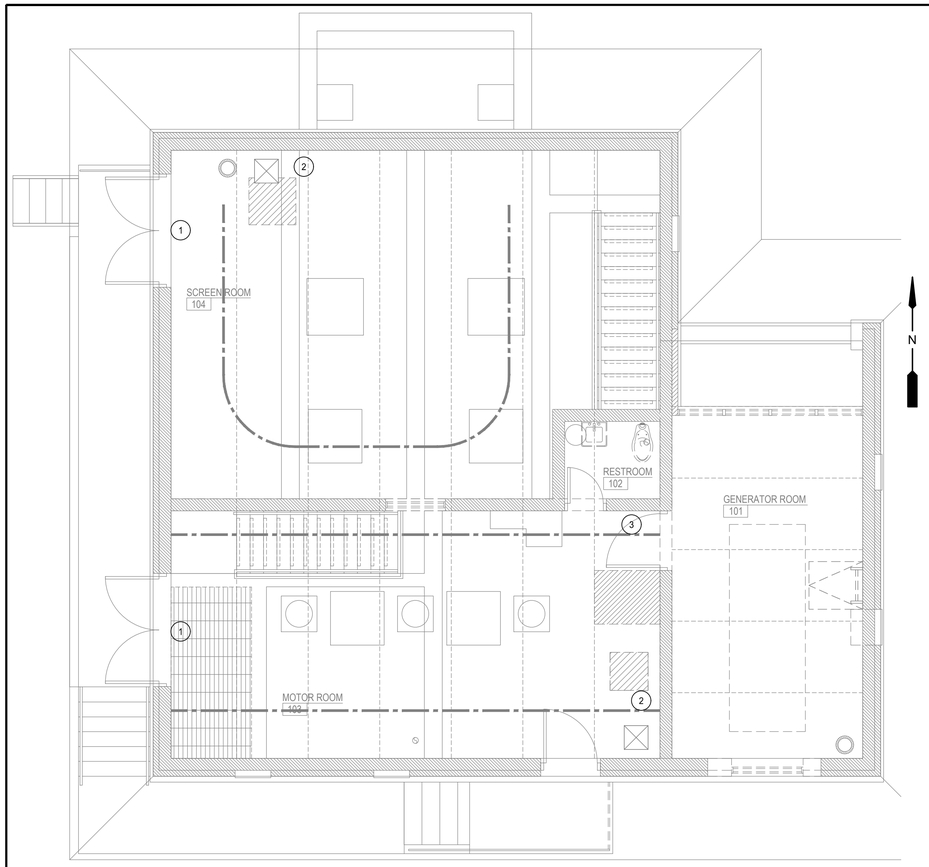
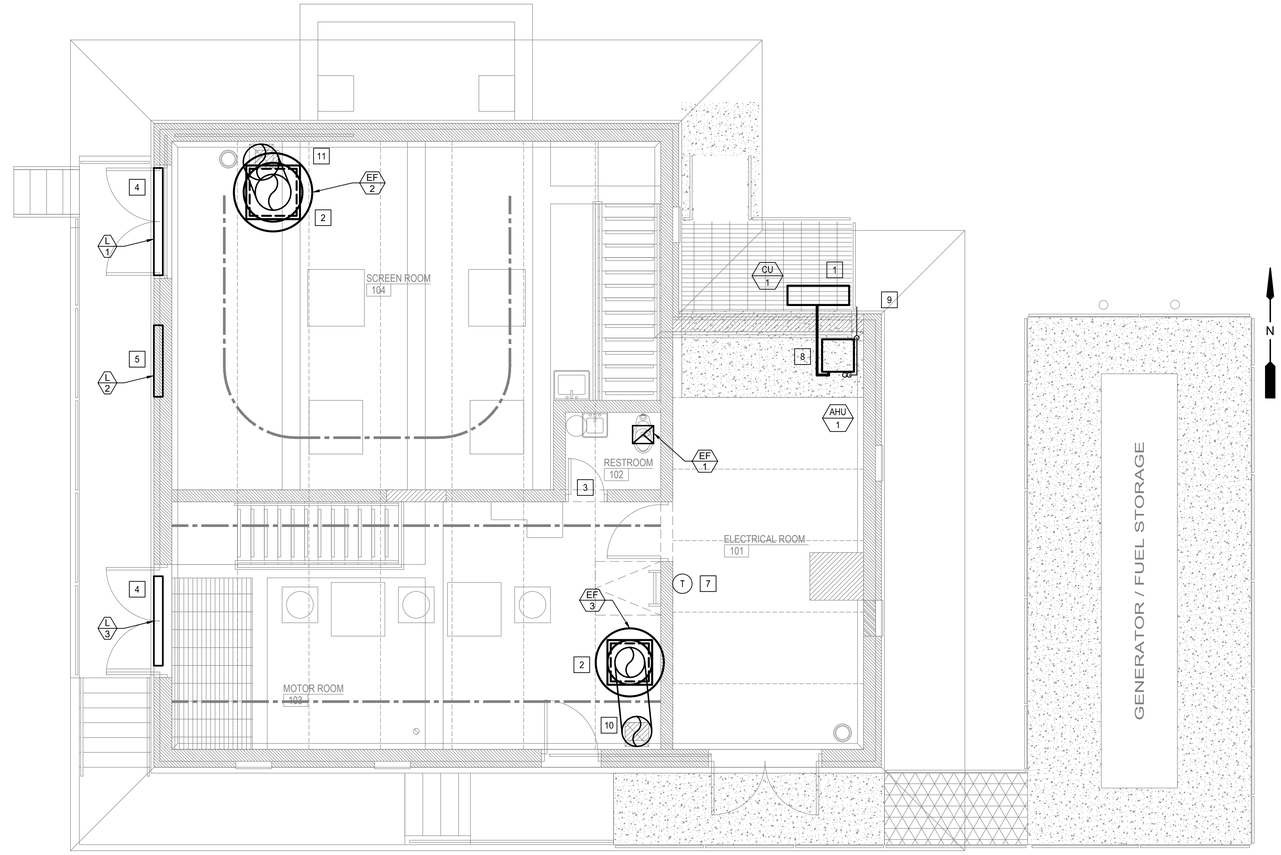



## 1 DEMOLITION FLOOR PLAN
M-02 SCALE: 1/4" = 1'-0"




## 2 FLOOR PLAN
M-02 SCALE: 1/4" = 1'-0"

### 1 KEY NOTES

1. DEMO SUPPLY FAN ABOVE DOOR. PREPARE OPENING FOR INSTALLATION OF LOUVER.
2. DEMO WALL MOUNTED EXHAUST FAN. RETAIN DUCTWORK FOR RECONNECTION TO NEW EXHAUST FAN.
3. DEMO WALL MOUNTED RESTROOM EXHAUST FAN. PATCH WALL TO MATCH EXISTING.

### 1 KEY NOTES

1. MOUNT CONDENSING UNIT ON SIDE WALL. PROVIDE MANUFACTURER'S HEAVY DUTY WALL MOUNTING BRACKET MODEL: QSWB2000M-1. BOTTOM OF CONDENSING UNIT TO BE LEVEL WITH ELECTRICAL ROOM FINISHED FLOOR. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2. INSTALL NEW EXHAUST FAN ON ROOF. PROVIDE NEW DUCTWORK AND TRANSITIONS AS REQUIRED. COORDINATE ROOF WORK WITH LANDLORD'S ROOF WARRANTY HOLDER.
3. INSTALL NEW EXHAUST FAN IN RESTROOM. SUSPEND EXHAUST FAN FROM CEILING. PROVIDE ISOLATION KIT. EXHAUST FAN TO BE CONTROLLED BY RESTROOM LIGHT. ROUTE EXHAUST DUCT THROUGH NEW PENETRATION. INSTALL ROOF MOUNTED EXHAUST CAP AND SEAL WEATHER TIGHT. COORDINATE PENETRATION WITH LANDLORD'S ROOF WARRANTY HOLDER.
4. INSTALL NEW LOUVER ABOVE DOOR. SEAL PENETRATION WEATHER TIGHT.
5. INSTALL NEW LOUVER IN WALL. ELEVATION TO MATCH LOUVER INSTALLED ABOVE DOOR. SEAL PENETRATION WEATHER TIGHT.
6. NOT USED.
7. CONTRACTOR SHALL PROVIDE THERMOSTAT TO OPERATE HVAC UNIT. COORDINATE THERMOSTAT LOCATION WITH ELECTRICAL ROOM EQUIPMENT. THERMOSTAT TO BE HONEYWELL NON-PROGRAMMABLE.
8. ROUTE REFRIGERANT LINES THROUGH EXTERIOR WALL. PROVIDE WALL SLEEVE. SEAL PENETRATION WEATHER TIGHT.
9. ROUTE CONDENSATE TO LANDSCAPE. TERMINATE INDIRECT A MINIMUM OF 1'-0" FROM BUILDING.
10. ROUTE 20"Ø DUCTWORK TO EXISTING OPENING IN FLOOR. ENLARGE OPENING AS REQUIRED TO EXTEND DUCTWORK THROUGH FLOOR. DUCTWORK TO EXTEND THROUGH FLOOR A MINIMUM OF 1'-0".
11. ROUTE 24"Ø DUCTWORK TO EXISTING OPENING IN FLOOR. ENLARGE OPENING AS REQUIRED TO EXTEND DUCTWORK THROUGH FLOOR. DUCTWORK TO EXTEND THROUGH FLOOR A MINIMUM OF 1'-0".

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A Full Service A & E Firm
5200 Belfort Road Jacksonville, FL 32256
Phone: 904.332.2959
Licenses:
Eng. C.O.A. No. 3215 Arch. Lic. No. AA26000926
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DESIGN ENGINEER
DAVID J. MELFI
FLORIDA REGISTRATION NO.
72405

| | |
|---|---|
| DESIGNER: | JAD |
| DRAWN BY: | JAD |
| DATE: | AUGUST 2018 |
| CHECKED BY: | DJM |
| DATE: | AUGUST 2018 |

JEA Building Community

TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT
# MECHANICAL DEMOLITION PLAN & FLOOR PLAN

PROJ. NO. J6609
DATE: AUGUST 2018
SCALE: 14" = 1'-0"

NO. SHEETS: 50
SHEET NO. 41
DRAWING NO. H-02


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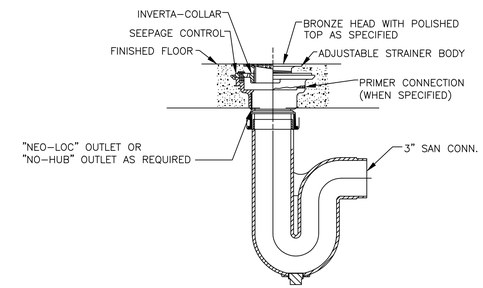


1 / P-01 DEEP SEAL P-TRAP WITH FLOOR DRAIN
SCALE: NTS

## PLUMBING FIXTURE SCHEDULE

| MARK | DESCRIPTION | WASTE | VENT | CW | HW | REMARKS |
|---|---|---|---|---|---|---|
| WC-1 | TANK TYPE WATER CLOSET ADA ACCESSIBLE 17" AFF TO LIP | 3" | 2" | 1/2" | --- | FLOOR MOUNTED @ 17" AFF<br>MODEL: MANSFIELD 385-836<br>(1.6 GALLONS PER FLUSHING CYCLE) BOWL AND TANK SHALL BE VITREOUS CHINA, HIGH PERFORMANCE FLUSH TECHNOLOGY, SECURED TO FLOOR, AND ELONGATED BOWL. BEMIS SEAT #1955C SOLID WHITE PLASTIC SEAT, OPEN FRONT LESS COVER WITH SELF-SUSTAINING CHECK HINGE. PROVIDE WITH 10" ROUGH-IN, OR EQUAL AS APPROVED BY OWNER. |
| L-1 | LAVATORY ADA ACCESSIBLE 34" AFF TO RIM | 1 1/2" | 1 1/2" | 1/2" | - | WALL MOUNTED @ 34" AFF<br>MODEL: MANSFIELD 2018HBNS<br>22"x18" CAST IRON WITH CONCEALED ARM SYSTEM CARRIER SECURED TO FLOOR. THERMOSTATIC MIXING SINK FAUCET CHICAGO FAUCET MODEL 420-T45ABCP, VANDAL RESISTANT, 1.5 GPM LAMINAR FLOW, AND GRID DRAIN, AND K-1998 SHROUD. PROVIDE CHROME PLATED BRASS ANGLE VALVES, SUPPLIES W/ LOOSE KEY STOPS AND 1-1/4"x1-1/2" P-TRAP. INSULATE SUPPLIES & WASTE WITH SEAMLESS PREWRAPPED ADJUSTABLE CAST BRASS P-TRAP KIT SIMILAR TO MCGUIRE PROWRAP MODEL NO. 2125. PROVIDE POINT OF USE MIXING VALVE SET FOR 105-DEGREES. BASIS OF DESIGN: BRADLEY MODEL S59-4000. |
| MV-1 | MIXING VALVE | --- | --- | --- | --- | MODEL: SYMMONS 7-210-CK<br>THERMOSTATIC CONTROLLER, CHECK STOPS, REMOVABLE CARTRIDGE WITH STRAINER, S.S. PISTON, THERMAL MOTOR. MIN FLOW RATE .5 GPM. |

## DRAIN SCHEDULE

| TAG | TYPE | MANUFACTURER | MODEL NO. | OUTLET | NOTES |
|---|---|---|---|---|---|
| FD-1 | FLOOR DRAIN | ZURN | ZB415BZ-P | SIZE PER PLAN | 1, 2 |
| FCO | FLOOR CLEANOUT | ZURN | ZB1400 | SIZE PER PLAN | 3 |
| WCO | WALL CLEANOUT | ZURN | Z1441 | SIZE PER PLAN | - |
| | | | | | |
| | | | | | |

NOTES:
1. PROVIDE PPP INC. PR-500, 1/2" UNDER LAV TRAP PRIMER OR AS NOTED ON PLAN.
2. PROVIDE 1/2" TRAP PRIMER OR AS NOTED ON PLAN.
3. COORDINATE FINISH CAP WITH FINISH FLOOR MATERIAL.

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gph
A Full Service A & E Firm
5200 Belfort Road Jacksonville, FL 32256
Phone: 904.357.2059
Licenses:
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DESIGN ENGINEER: DAVID J. MELFI
FLORIDA REGISTRATION NO. 72405

DESIGNER: JAD
DRAWN BY: JAD
DATE: AUGUST 2018
CHECKED BY: DJM
DATE: AUGUST 2018

JEA Building Community

TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT
PLUMBING SCHEDULES & DETAILS

PROJ. NO. J6609
DATE: AUGUST 2018
SCALE: 14" = 1'-0"

NO. SHEETS 50
SHEET NO. 42
DRAWING NO. P-01

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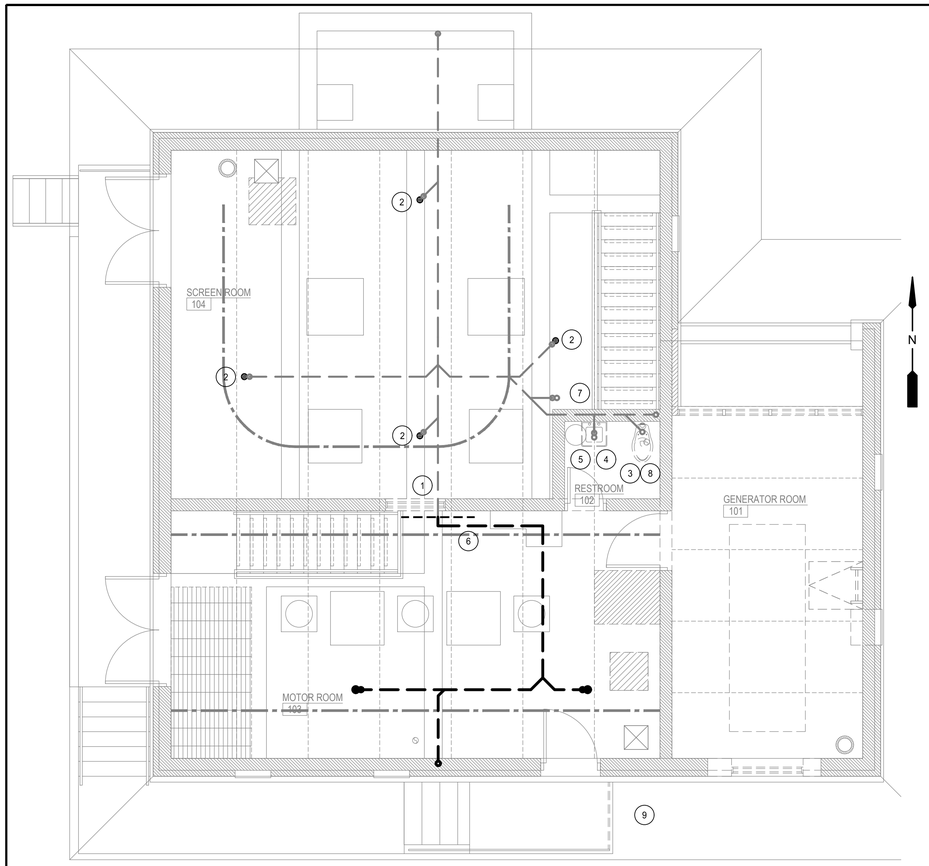
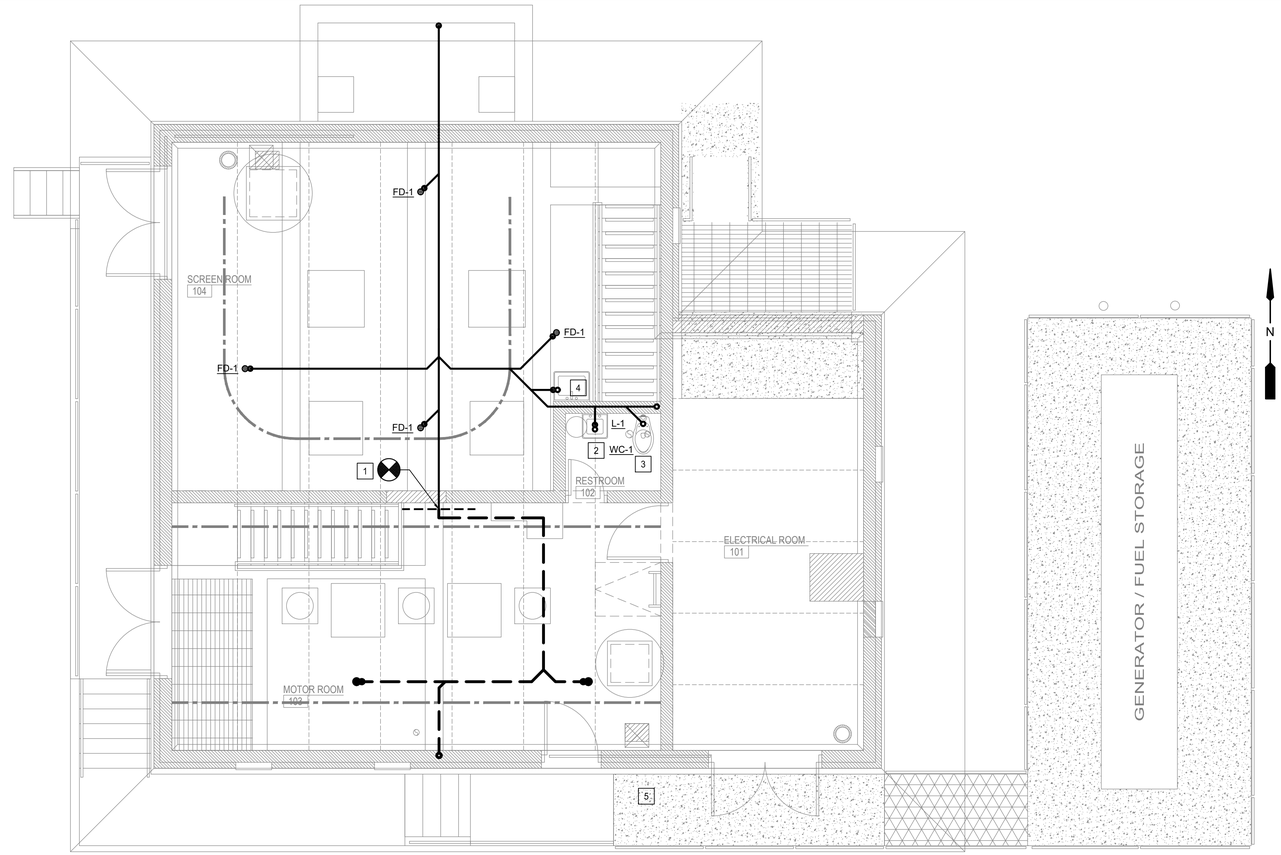



## 1 P-02 DEMOLITION FLOOR PLAN

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




## 2 P-02 FLOOR PLAN

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

### 1 KEY NOTES

1. DEMO SANITARY LINE SUSPENDED BELOW DECK. DEMO ASSOCIATED HARDWARE.
2. DEMO FLOOR DRAIN. PREPARE FLOOR SLAB FOR INSTALLATION OF NEW FLOOR DRAIN.
3. DEMO WATER CLOSET. PREPARE CONNECTIONS FOR INSTALLATION OF NEW WATER CLOSET.
4. DEMO LAVATORY. PREPARE CONNECTIONS FOR INSTALLATION OF NEW LAVATORY.
5. EXISTING UNDER SINK HOT WATER HEATER TO REMAIN. MAINTAIN CONNECTIONS.
6. EXISTING SANITARY LINE SUSPENDED BELOW DECK TO REMAIN.
7. SERVICE SINK TO REMAIN. PREPARE FOR CONNECTION TO NEW SANITARY LINE.
8. EXISTING VTR AND WALL CLEANOUT TO REMAIN. PREPARE FOR CONNECTION TO NEW SANITARY LINE.
9. PREPARE EXISTING BACKFLOW PREVENTER FOR RELOCATION AS REQUIRED FOR INSTALLATION OF NEW CONCRETE LANDING.

### 1 KEY NOTES

1. CONNECT NEW SANITARY LINE TO EXISTING SANITARY.
2. INSTALL NEW LAVATORY. CONNECT TO EXISTING HOT WATER, COLD WATER.
3. INSTALL NEW WATER CLOSET. CONNECT TO EXISTING COLD WATER.
4. CONNECT EXISTING SERVICE SINK TO NEW SANITARY LINE.
5. RELOCATE EXISTING BACKFLOW PREVENTER AS REQUIRED TO FACILITATE INSTALLATION OF NEW CONCRETE LANDING.


cph
A Full Service A & E Firm
5200 Belfort Road Jacksonville, FL 32256
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DESIGN ENGINEER
DAVID J. MELFI
FLORIDA REGISTRATION NO.
72405

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|---|---|
| DESIGNER: | JAD |
| DRAWN BY: | JAD |
| DATE: | AUGUST 2018 |
| CHECKED BY: | DJM |
| DATE: | AUGUST 2018 |

JEA Building Community

# TIMUQUANA ROAD WTP RENEWAL & REPLACEMENT
# PLUMBING DEMOLITION PLAN & FLOOR PLAN

PROJ. NO. J6609
DATE: AUGUST 2018
SCALE: 14" = 1'-0"

NO. SHEETS 50
SHEET NO. 43
DRAWING NO. P-02

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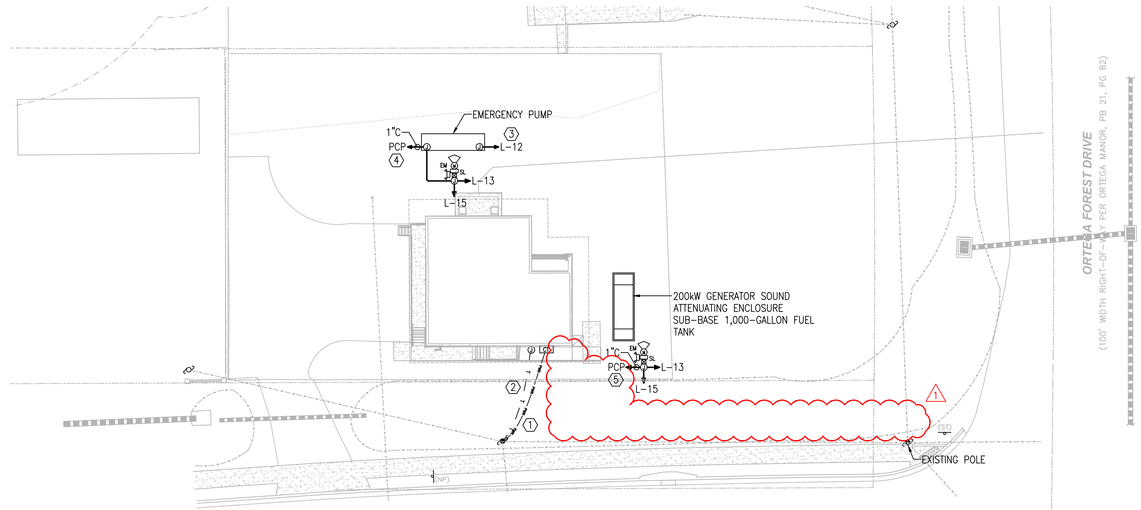
# ELECTRICAL SYMBOL LEGEND

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|---|---|---|---|
| | HOMERUN TO PANELBOARD WITH CIRCUIT NUMBERS AS INDICATED. | | ELECTRICAL RECEPTACLE, 208/240 VOLT. MOUNT 18" AFF UNLESS OTHERWISE NOTED. |
| | LIGHT FIXTURE. SEE LIGHTING FIXTURE SCHEDULE | | DUPLEX ELECTRICAL RECEPTACLE, 120 VOLT. MOUNT 18" AFF UNLESS OTHERWISE NOTED. 'R' = RECESSED. |
| | EMERGENCY LIGHT. BATTERY BACKUP LIGHTING | OS | RECEPTACLE, SPLIT, HALF SWITCHING, SINGLE POLE, DOWN STREAM. LUTRON CAR2S-20-STR-20A, LRF2-OCR-2B-P-WH MOUNTING KIT. MOUNT 18" AFF UNLESS OTHERWISE NOTED. |
| | EXTERIOR LIGHT FIXTURE. SEE LIGHTING FIXTURE SCHEDULE | | QUADRAPLEX ELECTRICAL RECEPTACLE, 120 VOLT. MOUNT 18" AFF UNLESS OTHERWISE NOTED. |
| 3P 60 3R | NON-FUSED DISCONNECT SWITCH: "3P" DENOTES POLE/AMP: DASHED DENOTES FURNISHED WITH EQUIPMENT, 3R DENOTES NEMA RATING | | DUPLEX ELECTRICAL RECEPTACLE WITH GROUND FAULT CIRCUIT-INTERRUPTER 120 VOLT. MOUNT 18" AFF UNLESS OTHERWISE NOTED. |
| | INDUSTRIAL LED LIGHT FIXTURE. SEE LIGHTING FIXTURE SCHEDULE | | ABOVE COUNTER DUPLEX ELECTRICAL RECEPTACLE, 120 VOLT. MOUNT 18" AFF UNLESS OTHERWISE NOTED. |
| $ | SINGLE POLE SWITCH | | ABOVE COUNTER DUPLEX ELECTRICAL RECEPTACLE WITH GROUND FAULT CIRCUIT-INTERRUPTER, 120 VOLT. MOUNT 18" AFF UNLESS OTHERWISE NOTED. |
| $3 | 3-WAY SWITCH | | TELEPHONE/DATA RECEPTACLE. CONTRACTOR TO PROVIDE SINGLE GANG RING & TWO PULL STRINGS. IN WALLS WITH INSULATION, PROVIDE (1) 1" CONDUIT STUBBED ABOVE WALL. CABLING & COVER PLATES ARE TO BE PROVIDED AND INSTALLED BY TENANT'S TELE/DATA VENDOR. 'R' = RECESSED. |
| $D | SINGLE POLE SWITCH WITH DIMMER | | |
| $V | VOLUME CONTROL | | |
| $OS | SINGLE POLE SWITCH WITH OCCUPANCY SENSOR, WATTSTOPPER OR LUTRON | | |
| EF | EXHAUST FAN | | |
| T | THERMOSTAT. SEE MECHANICAL PLANS | | |
| SPD | SURGE PROTECTION DEVICE, TYPE 1, APT, TE, 2HPFMSC OR APPROVED EQUAL | | |
| K | KEYPAD DOOR ACCESS WITH FAIL SECURE STRIKE HARDWARE AND MONITORING DOOR SWITCH | | |
| OS | CEILING OCCUPANCY SENSOR, WATT STOPPER OR APPROVED EQUAL | | |
| GFI | INDICATES GROUND FAULT INTERRUPTED RECEPTACLE | | |
| | UTILITY POWER POLE | | |
| C | INDICATES CEILING MOUNTED | | |
| WP | WEATHER PROOF | | |
| E | SPECIALTY EQUIPMENT | | |
| J | JUNCTION BOX. SIZE PER NEC. | | |
| M | MOTOR | | |
| M | MOTION SENSOR, EXTERIOR DUAL TECHNOLOGY | | |
| | | CW | SITE LIGHTING PRE-STRESSED CONCRETE POLE. SEE DETAIL. |
| | | CW | CONTROL WIRING BY OTHERS. SEE DIVISION 40 SPECIFICATIONS. |

CODES

THE WORK UNDER THE REQUIREMENTS OF THESE SPECIFICATIONS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. THE INSTALLATION SHALL ALSO COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS OF LOCAL AND STATE LAWS AND ORDINANCES INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

| | |
|---|---|
| NFPA 70 | NATIONAL ELECTRIC CODE |
| NFPA 70E | ELECTRICAL WORKPLACE SAFETY CODE |
| NFPA 780 | LIGHTNING PROTECTION CODE |
| NFPA 90A | STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS |
| NFPA 101 | LIFE SAFETY CODE |
| NFPA 110 | STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS |
| 2017, 6TH ED. | FLORIDA BUILDING CODE |

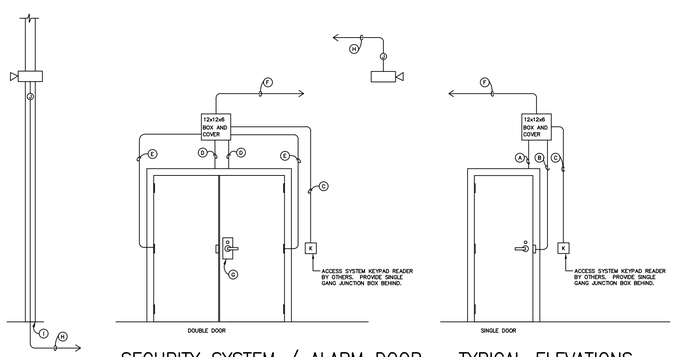



## ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

KEYED NOTES:

1. PROVIDE NEW UTILITY POWER SERVICE LATERAL. SEE SINGLE LINE DIAGRAM.
2. PROVIDE NEW TELECOM SERVICE ENTRY. SEE TELECOM RISER.
3. PROVIDE 120v POWER CONNECTION TO EMERGENCY PUMP BATTERY CHARGER.
4. PROVIDE STATUS MONITORING OF EMERGENCY PUMP, BATTERY CHARGER, AND MOTION DETECTOR.
5. PROVIDE STATUS MONITORING OF MOTION DETECTOR.




## SECURITY SYSTEM / ALARM DOOR – TYPICAL ELEVATIONS

NOT TO SCALE

GENERAL NOTES:

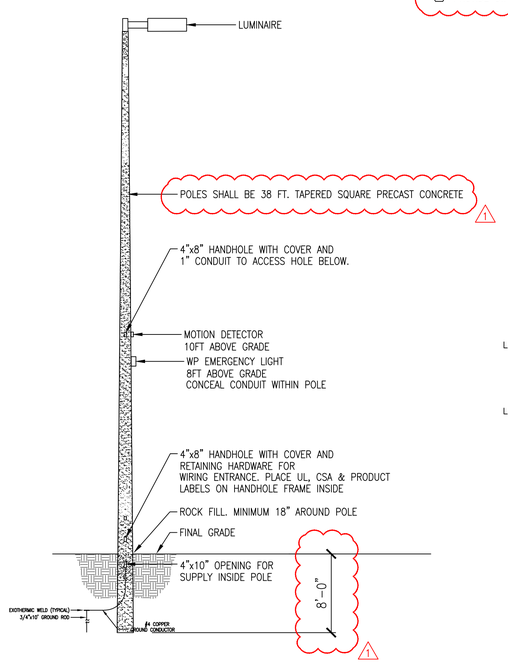
1. VERIFY EXACT SIZE/LOCATION OF ALL JUNCTION BOXES AND ROUTING/TERMINATIONS OF ALL CONDUITS WITH OWNER AND INSTALLER PRIOR TO INSTALLATION.
2. DETAILS SHOWN ARE FOR TYPICAL CONDUIT PLACEMENTS FOR CONTROLLED DOORS WITH ELECTRIC STRIKES AND ALARM MONITORING. ALL CONDUIT TO BE 3/4 INCHES MINIMUM AND ACCESSED FROM THE SECURED SIDE OF THE DOOR. FIELD COORDINATE EXACT REQUIREMENTS WITH SECURITY SYSTEM SUPPLIER PRIOR TO ROUGH-IN.
3. COORDINATE REQUIREMENTS WITH SECURITY SYSTEM VENDOR PRIOR TO ROUGH-IN. CONCEAL CONDUIT.

KEYED NOTES:

- A. CONDUIT FOR DOOR CONTACT/MAGNETIC LOCK PLACED WITHIN 6 INCHES FROM THE STRIKE SIDE DOORJAMB.
- B. CONDUIT FOR ELECTRIC STRIKE. TERMINATED AT CENTER OF LOCK STRIKE OPENING.
- C. CONDUIT FOR WP KEYPAD. 40 INCHES ABOVE FINISHED FLOOR AND NO MORE THAN 24 INCHES FROM THE EDGE OF THE DOOR FRAME.
- D. CONDUIT FOR DOOR CONTACTS/MAGNETIC LOCKS PLACED WITHIN 6 INCHES FROM THE CENTER OF OF THE DOOR OPENING.

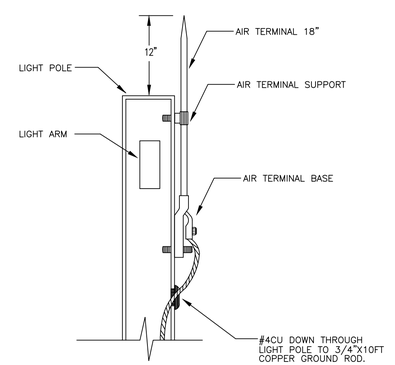
KEYED NOTES, CONT'D:

- E. CONDUIT FOR ELECTRIC MORTISE DOOR LOCK. TERMINATED AT CENTER OF MIDDLE HINGE POCKET OF DOOR.
- F. SECURITY HOME RUN CONDUIT TO SECURITY PANEL. PROVIDE 1" CONDUIT WITH PULL STRING LABELED.
- G. ELECTRIC MORTISE DOOR LOCK. PROVIDED BY OTHERS. WIRED THROUGH FALSE MIDDLE HINGE.
- H. CCTV CONDUIT AND JUNCTION BOX WITH BLANK COVER. 1" CONDUIT WITH PULL STRING TO SECURITY BOARD.
- I. LIGHT POLE. REFER TO SITE PLAN FOR LOCATION. 1" CONDUIT WITH PULL STRING TO SECURITY BOARD.



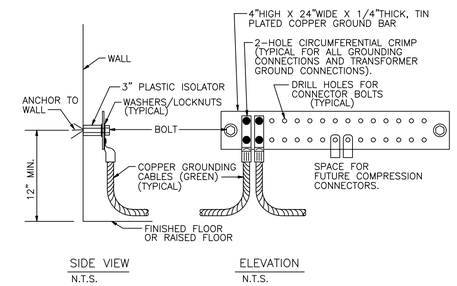

## CONCRETE POLE MOUNTED LUMINAIRE DETAIL

NOT TO SCALE



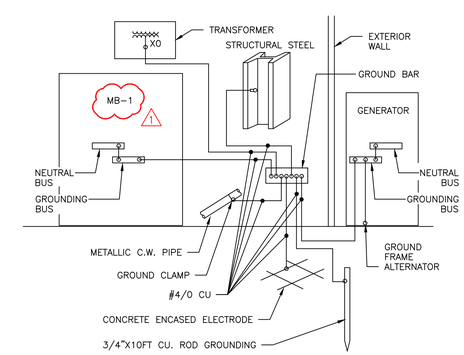

## LIGHT POLE LIGHTNING PROTECTION DETAIL

NOT TO SCALE




## GROUND BAR DETAIL

NOT TO SCALE




## GROUND SYSTEM DETAIL

NOT TO SCALE

BID REVIEW

| REV | REVISION/ISSUE DESCRIPTION | DATE |
|---|---|---|
| 1 | OWNER CHANGES | 3-26-21 |


Eng Engineering Inc
MECHANICAL ELECTRICAL FIRE PROTECTION HURRICANE PARAGONS
Eng Engineering Inc. 10 Hidden Ridge, Yardley, PA 19067-7504
Tel: 215-493-7000 Fax: 215-493-8009
www.engengineering.com
EDWARD J. ENG
FL. REG. P.E. #36785
C.O.A.: #4925


# Wastewater Pumping Station Upgrades

4881 Timuquana Road
Jacksonville, Florida

LEGEND, SCHEDULES, AND ELECTRICAL SITE PLAN

| | |
|---|---|
| PROJECT No. | 2017-051 |
| DATE: | 5-3-2019 |
| SCALE: | AS NOTED |
| DRAWN BY: | EE/JJ |
| CHECKED BY: | LU |

SHEET

E-1

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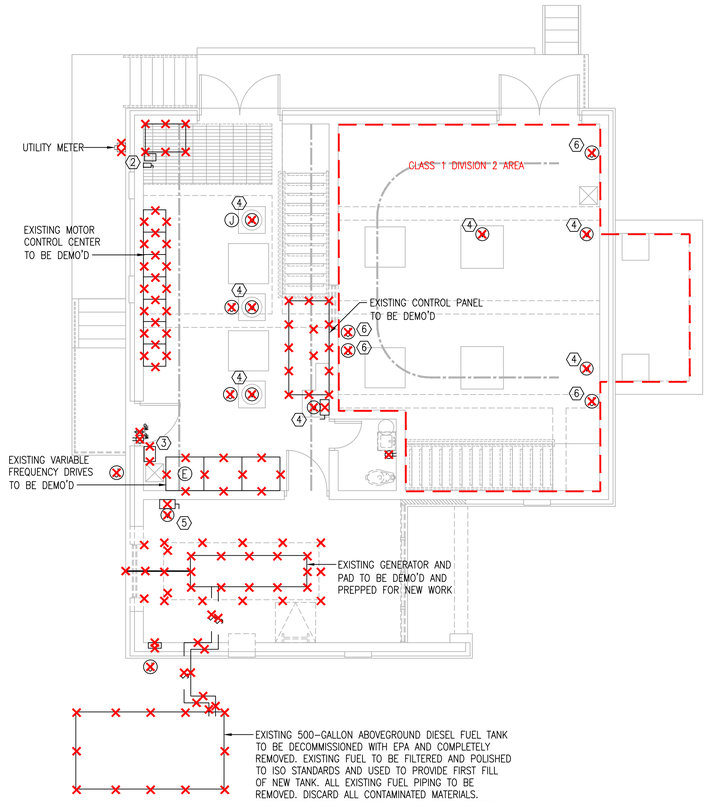
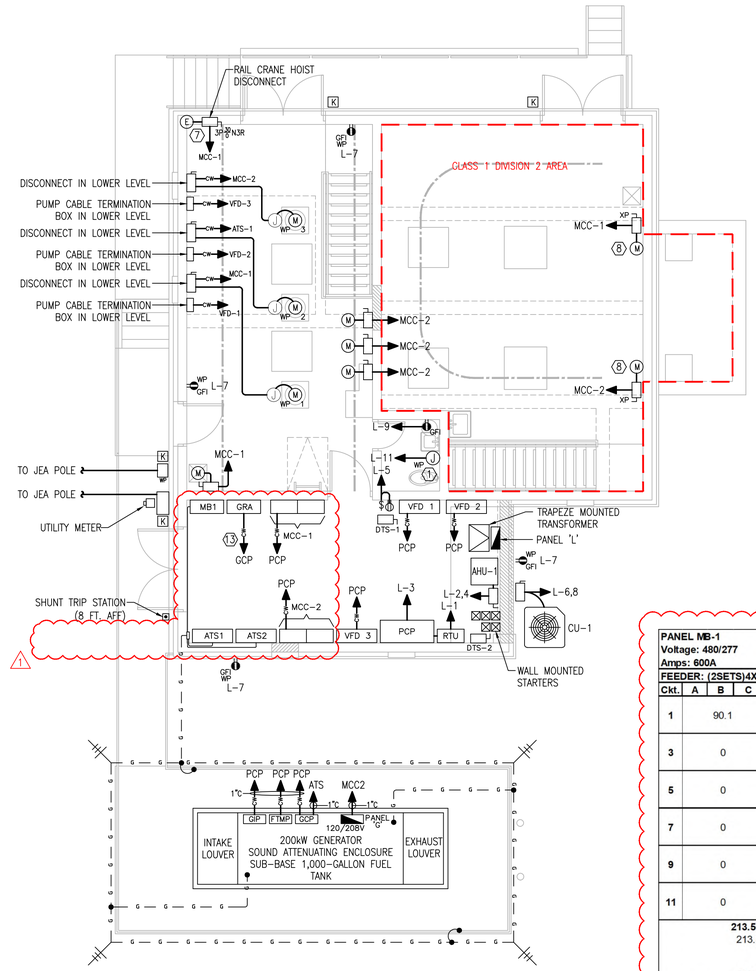



## MAIN LEVEL - POWER - DEMOLITION

SCALE: 3/16" = 1'-0"




## MAIN LEVEL - POWER - NEW WORK

SCALE: 3/16" = 1'-0"

## KEYED NOTES:

1. PROVIDE CONNECTIONS TO EXISTING WATER HEATER. SEE PANEL SCHEDULE.
2. COMPLETELY REMOVE EXISTING HEATER.
3. COMPLETELY REMOVE EXISTING ALARM PANEL.
4. COMPLETELY REMOVE EXISTING MOTOR, CONTROL, AND BRANCH WIRING.
5. COMPLETELY REMOVE EXISTING DAY TANK AND PUMP CONTROLS. RETURN STORED FUEL INTO MAIN STORAGE TANK FOR POLISHING AND REUSE.
6. COMPLETELY REMOVE EXISTING ELECTRICAL DEVICE.
7. PROVIDE CONNECTION TO CRANE RAIL HOIST TROLLEY PANEL.
8. PROVIDE NEW EXPLOSION PROOF NEMA 7 CONNECTION TO SLUICE GATE MOTOR AND DISCONNECT.
9. PROVIDE NEW CONNECTION TO MOTOR AND DISCONNECT.
10. PROVIDE NEW CONNECTION TO MOTOR AND DISCONNECT.
11. PROVIDE NEW CONNECTION TO MOTOR AND DISCONNECT.
12. PROVIDE COUNTERPOISE GROUNDING OF GENERATOR AND FUEL TANK. #2 TINNED COPPER, 12" BELOW GRADE. PROVIDE GROUND RODS AT CORNERS, JUMPERS TO GENERATOR FRAME AND HAND RAILS AS SHOWN.
13. PROVIDE GENERATOR REMOTE ANNUNCIATOR FOR GENERATOR WITH REMOTE TEST AND EXERCISING CONTROL. INCLUDE ALL CONTROL WIRING WITHIN PVC CONDUIT TO GENERATOR CONTROL PANEL. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.

**PANEL MB-1** | Manuf.: SQD | Cat No.: I-LINE SERVICE RATED | Series:
Voltage: 480/277 | Phase: 3 | Wire: 4 | Type(NEMA): N1
Amps: 600A | MLO: 600 | Main Bkr: 500A | Cat No.: W/HINGED LOCKING DOORS
FEEDER: (2SETS)4X350CU, E.G. 2CU | Conduit(size/type): 2X3.5" PVC

| Ckt. | A | B | C | Description | Bkr | Poles | Wire | Ckt. | A | B | C | Description | Bkr | Poles | Wire |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 90.1 | | | MCC-1 VIA ATS-1 | 225 | 3 | 250 | 2 | 123.4 | | | MCC-2 VIA ATS-2 | 225 | 3 | 250 |
| 3 | 0 | | | SPACE | 100 | 3 | | 4 | 0 | | | SPACE | 100 | 3 | |
| 5 | 0 | | | SPACE | 100 | 3 | | 6 | 0 | | | SPACE | 100 | 3 | |
| 7 | 0 | | | SPACE | 100 | 3 | | 8 | 0 | | | SPACE | 100 | 3 | |
| 9 | 0 | | | SPACE | 100 | 3 | | 10 | 0 | | | SPACE | 100 | 3 | |
| 11 | 0 | | | SPACE | 100 | 3 | | 12 | 0 | | | SPD | 40 | 3 | 6 |

213.50 :CONNECTED LOAD
213.5 :DEMAND LOAD — Fed from: UTILITY
65 :A.I.C. Rating(KA)
213.5 TOTAL LOAD — 257 AMPS — Location: ELEC RM

NOTE: PROVIDE SHUNT TRIP MAIN BREAKER. 600AF, 500AT, LSI. SEE ONE-LINE DIAGRAM.

**Panel: L** | Manuf.: SQD | Cat No.: NQOD | Series:
Voltage: 120/208 | Phase: 3 | Wire: 4 | Mtg(S/F): | Type(NEMA): 1
Amps: 150a | MLO: N/A | Main Bkr: 150A | Cat No.:
Phase Cond: #1/0 | Neutral: #1/0 | Ground: #6 | Conduit(size/type): 2" EMT

| Ckt. | A | B | C | Description | Bkr | Poles | Wire | Ckt. | A | B | C | Description | Bkr | Poles | Wire |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.5 | | | CONTROL PWR 1 | 20 | 1 | 12 | 2 | 0.42 | | | AHU-1 | 15 | 2 | 12 |
| 3 | | 0.5 | | CONTROL PWR 2 | 20 | 1 | 12 | 4 | | 0.42 | | | | | 12 |
| 5 | | | 1 | LIGHTS, REC. ELEC RM. | 20 | 1 | 12 | 6 | | | 1.37 | CU-1 | 25 | 2 | 10 |
| 7 | 0.54 | | | EXTERIOR GFI RECPT. | 20 | 1 | 12 | 8 | 1.37 | | | | | | 10 |
| 9 | | 0.26 | | LIGHTS, REC. REST. RM. | 20 | 1 | 12 | 10 | | 0.98 | | WET WELL LIGHTING | 20 | 1 | 12 |
| 11 | | | 1 | WTR HEATER EXISTG | 20 | 1 | 12 | 12 | | | 1 | EMERG. PUMP CNTRLS | 20 | 1 | 10 |
| 13 | 0.28 | | | SITE LIGHTING | 20 | 1 | 10 | 14 | 1 | | | PUMP ROOM LIGHTING | 20 | 1 | 12 |
| 15 | | 0.6 | | SITE POLE REC, ELITE, | 20 | 1 | 10 | 16 | | 0 | | SPARE | 20 | 1 | |
| 17 | | | 0 | SPARE | 20 | 1 | | 18 | | | 0 | SPARE | 20 | 1 | |
| 19 | 0 | | | SPARE | 20 | 1 | | 20 | 0 | | | SPARE | 20 | 1 | |
| 21 | | 0 | | SPARE | 20 | 1 | | 22 | | 0 | | SPACE | 20 | 1 | |
| 23 | | | 0 | SPACE | 20 | 1 | | 24 | | | 0 | SPACE | 20 | 1 | |
| 25 | 0 | | | SPACE | 20 | 1 | | 26 | 0 | | | SPACE | 20 | 1 | |
| 27 | | 0 | | SPACE | 20 | 1 | | 28 | | 0 | | SPACE | 20 | 1 | |
| 29 | | | 0 | SPACE | 20 | 1 | | 30 | | | 0 | SPACE | 20 | 1 | |
| 31 | 0 | | | SPACE | 20 | 1 | | 32 | 0 | | | SPACE | 20 | 1 | |
| 33 | | 0 | | SPACE | 20 | 1 | | 34 | | 0 | | SPACE | 20 | 1 | |
| 35 | | | 0 | SPACE | 20 | 1 | | 36 | | | 0 | SPACE | 20 | 1 | |
| 37 | 0 | | | SPACE | 20 | 1 | | 38 | 0 | | | SPD | 30 | 3 | 10 |
| 39 | | 0 | | SPACE | 20 | 1 | | 40 | | 0 | | SPD | 30 | 3 | 10 |
| 41 | | | 0 | SPACE | 20 | 1 | | 42 | | | 0 | SPD | 30 | 3 | 10 |

11.24 :CONNECTED LOAD
11.2 :DEMAND LOAD — Fed from: PANEL MCC1/MCC2 VIA DTS-1
10 :A.I.C. Rating(KA)
11.2 TOTAL LOAD — 31.22 AMPS — Location: ELEC RM

**PANEL MCC1** | Manuf.: SQD | Cat No.: I-LINE | Series:
Voltage: 480/277 | Phase: 3 | Wire: 4 | Type(NEMA): N1
Amps: 400A | MLO: 400A | Main Bkr: N/A | Cat No.: W/HINGED LOCKING DOORS
FEEDER: 250CU, E.G. 2CU | Conduit(size/type): 2.5" EMT

| Ckt. | A | B | C | Description | Bkr | Poles | Wire | Ckt. | A | B | C | Description | Bkr | Poles | Wire |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 31.2 | | | PUMP 1 | 100 | 3 | 1 | 2 | 31.2 | | | PUMP 3 VIA DTS | 100 | 3 | 1 |
| 3 | 6.7 | | | CRANE | 15 | 3 | 10 | 4 | 3.6 | | | SLUICE GATE | 20 | 3 | 10 |
| 5 | 0 | | | SPARE | 70 | 3 | | 6 | 3.6 | | | SUMP PUMP | 20 | 3 | 10 |
| 7 | 45 | | | PANEL L VIA DTS | 70 | 3 | 4 | 8 | 0.0 | | | SPARE | 60 | 3 | |
| 9 | 0 | | | SPARE | 100 | 3 | | 10 | 0 | | | SPARE | 60 | 3 | |
| 11 | 0 | | | SPACE | 100 | 3 | | 12 | 0 | | | SPD | 60 | 3 | 6 |

121.30 :CONNECTED LOAD
90.1 :DEMAND LOAD — Fed from: MAIN SERVICE DISCONNECT 'MB-1' VIA ATS-1
65 :A.I.C. Rating(KA)
90.1 TOTAL LOAD — 108 AMPS — Location: ELEC RM

**PANEL MCC2** | Manuf.: SQD | Cat No.: I-LINE | Series:
Voltage: 480/277 | Phase: 3 | Wire: 4 | Type(NEMA): N1
Amps: 400A | MLO: 400 | Main Bkr: N/A | Cat No.: W/HINGED LOCKING DOORS
FEEDER: 250CU, E.G. 2CU | Conduit(size/type): 2.5" EMT

| Ckt. | A | B | C | Description | Bkr | Poles | Wire | Ckt. | A | B | C | Description | Bkr | Poles | Wire |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 31.2 | | | PUMP 2 | 100 | 3 | 1 | 2 | 31.2 | | | PUMP 3 VIA DTS | 20 | 3 | 10 |
| 3 | 3.6 | | | SLUICE GATE | 20 | 3 | 10 | 4 | 3.6 | | | AERATION BLOWER | 15 | 3 | 10 |
| 5 | 10.1 | | | PR BLOWER | 15 | 3 | 10 | 6 | 16.3 | | | WWELL BLOWER | 15 | 3 | 10 |
| 7 | 45 | | | PANEL L VIS DTS | 70 | 3 | 4 | 8 | 10.0 | | | PANEL G | 40 | 3 | 6 |
| 9 | 3.6 | | | SUMP PUMP | 20 | 3 | 10 | 10 | 0 | | | SPARE | 20 | 3 | |
| 11 | 0 | | | SPARE | 100 | 3 | | 12 | 0 | | | SPD | 60 | 3 | 6 |

154.60 :CONNECTED LOAD
123.4 :DEMAND LOAD — Fed from: MAIN SERVICE DISCONNECT 'MB-2' VIA ATS-2
65 :A.I.C. Rating(KA)
123.4 TOTAL LOAD — 148 AMPS — Location: ELEC RM

BID REVIEW

| REV | REVISION/ISSUE DESCRIPTION | DATE |
|---|---|---|
| 1 | OWNER CHANGES | 3-26-21 |

Eng Engineering Inc
Mechanical Electrical Fire Protection Engineer Firm
8299 Blakeney Park Jacksonville, FL 32216 - 32256
Tel: 904.757.4335 Fax: 904.262.6009
www.engengineering.com

EDWARD J. ENG
FL. REG. P.E. #36785
C.O.A.: #4925

# Wastewater Pumping Station Upgrades

4881 Timuquana Road
Jacksonville, Florida

MAIN LEVEL – POWER – DEMOLITION & NEW WORK

PROJECT No. 2017-051
DATE: 5-3-2019
SCALE: AS NOTED
DRAWN BY: EE/JJ
CHECKED BY: LU

SHEET
**E-2**
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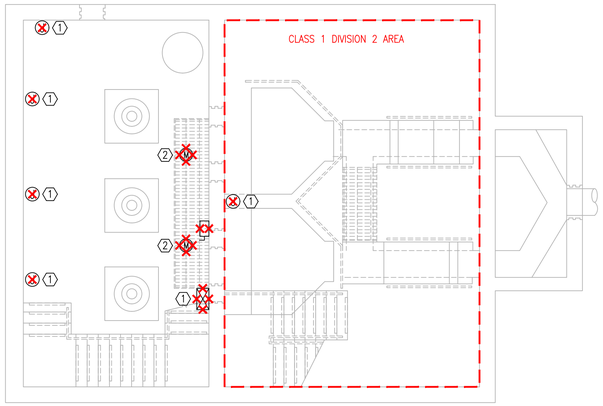
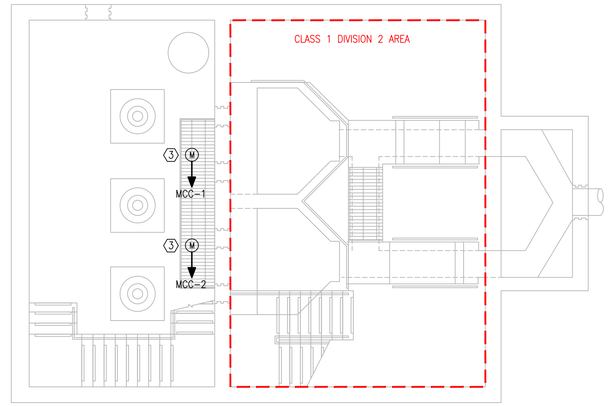
KEYED NOTES:

1. COMPLETELY REMOVE EXISTING ELECTRICAL DEVICE.
2. COMPLETELY REMOVE EXISTING MOTOR, CONTROL, AND BRANCH WIRING.
3. PROVIDE CONNECTION TO NEW SUMP PUMP MOTOR FROM SOFT START IN ELECTRICAL ROOM AND MCC BRANCH CIRCUIT. SEE ONE-LINE DIAGRAM.




LOWER LEVEL - POWER - DEMOLITION

SCALE: 3/16" = 1'-0"




LOWER LEVEL - POWER - NEW WORK

SCALE: 3/16" = 1'-0"

| REV | REVISION/ISSUE DESCRIPTION | DATE |
|---|---|---|

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C.O.A.: #4925

**Wastewater Pumping Station Upgrades**
4881 Timuquana Road
Jacksonville, Florida

LOWER LEVEL – POWER – DEMOLITION & NEW WORK

PROJECT No. 2017-051
DATE: 5-3-2019
SCALE: AS NOTED
DRAWN BY: EE/JJ
CHECKED BY: LU

SHEET
**E-3**
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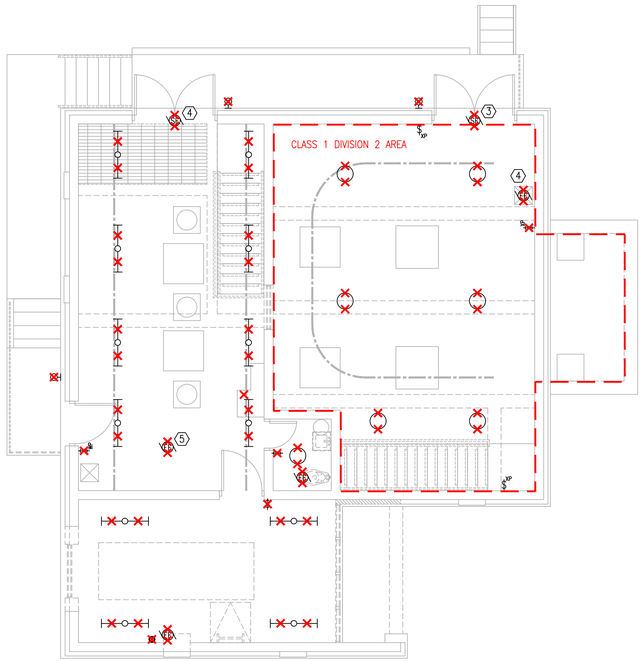
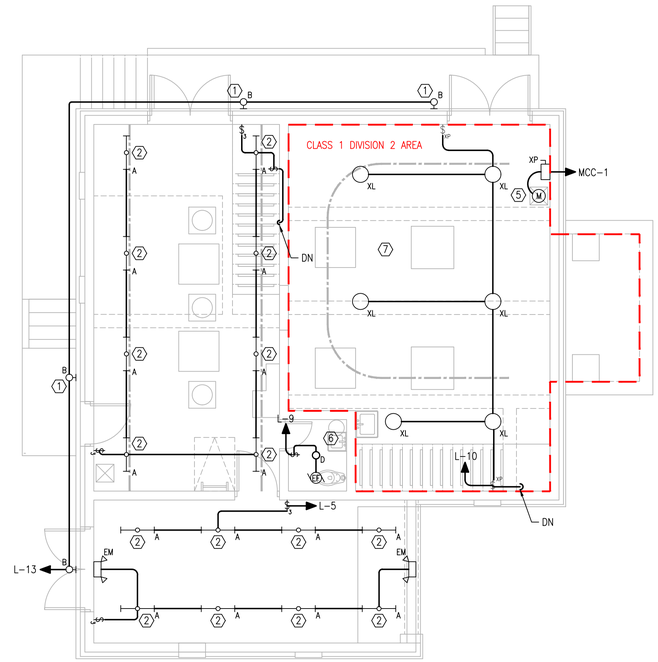
BID REVIEW




## MAIN LEVEL - LIGHTING - DEMOLITION

SCALE: 3/16" = 1'-0"




## MAIN LEVEL - LIGHTING - NEW WORK

SCALE: 3/16" = 1'-0"

## KEYED NOTES:

1. ROUTE CONDUIT WITHIN BUILDING TO CONCEAL EXTERIOR LIGHTING FIXTURE 'B'. CIRCUIT TO L-13.
2. PROVIDE NEW INDUSTRIAL LED FIXTURE AS SHOWN.
3. COMPLETELY REMOVE EXISTING SUPPLY FAN.
4. COMPLETELY REMOVE EXISTING EXHAUST FAN.
5. PROVIDE NEW CLASS 1 DIVISION 2 NEMA 7 DISCONNECT TO NEW EXHAUST FAN.
6. PROVIDE NEW LED FIXTURE AS SHOWN.
7. ALL ELECTRICAL WORK IN THE WET WELL AREA TO BE CLASS 1 DIVISION 2 COMPLIANT PER N.E.C. 70.

### LIGHTING FIXTURE SCHEDULE

| TYPE | MANUFACTURER | CATALOG NUMBER | DESCRIPTION | LAMPS Qty | LAMPS Type | VOLTS | MOUNTING | REMARKS | INPUT WATTS |
|---|---|---|---|---|---|---|---|---|---|
| A | HYDREL | 4764 LED 35K MVOLT PDMD XX STG ELN | | 1 | LED | MVOLT | PENDANT | | 130 |
| B | LITHONIA | TWH 10C 1000 40K TM3 MVOLT PE DDBXD | | 1 | LED | 120 | WALL | | 39 |
| C | LITHONIA | JCBL HIGH BAY LED | | 1 | LED | 120 | PENDANT | | 200 |
| D | HYDREL | 4762 LED 35K MVOLT STG | | 1 | LED | 120 | CEILING | | 130 |
| XL | HOLOPHANE | HRLL-8L-AS-GG-PD-94W | | 1 | LED | 120 | PENDANT | | 94 |
| SL | LITHONIA | DSX1 LED 40C 1000 30K T3M PERDLL MA DDBXD | | 1 | LED | MVOLT | POLE (30 FT.) | | 138 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

BID REVIEW

| REV | REVISION/ISSUE DESCRIPTION | DATE |
|---|---|---|
| 1 | OWNER CHANGES | 3-26-21 |


Eng Engineering Inc
Mechanical Electrical Fire Protection Engineer Forensic
8299 Blakeney Park, Jacksonville, Florida 32256-8404
Tel: 904.379.0375 Fax: 904.292.8309
www.engengineering.com

EDWARD J. ENG
FL. REG. P.E. #36785
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# Wastewater Pumping Station Upgrades

4881 Timuquana Road
Jacksonville, Florida

MAIN LEVEL – LIGHTING – DEMOLITION & NEW WORK

PROJECT No. 2017-051
DATE: 5-3-2019
SCALE: AS NOTED
DRAWN BY: EE/JJ
CHECKED BY: LU

SHEET
**E-4**
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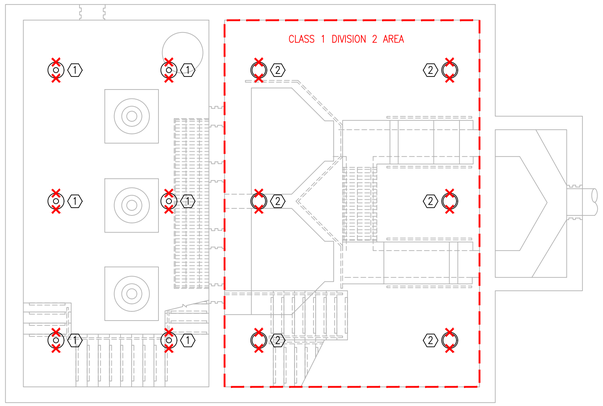
KEYED NOTES:

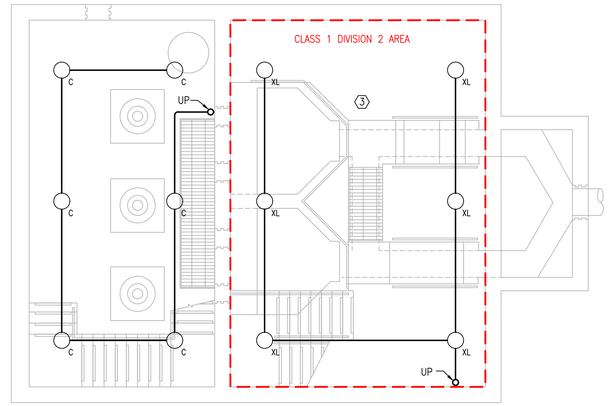
1. PROVIDE NEW LED FIXTURE AS SHOWN.
2. PROVIDE NEW CLASS 1 DIVISION 2 EXPLOSION PROOF LIGHTING FIXTURE AS SHOWN FOR THIS AREA.
3. ALL ELECTRICAL WORK IN WET WELL AREA TO BE CLASS 1 DIVISION 2 COMPLIANT PER N.E.C. 70.




NORTH

## LOWER LEVEL - LIGHTING - DEMOLITION

SCALE: 3/16" = 1'-0"




NORTH

## LOWER LEVEL - LIGHTING - NEW WORK

SCALE: 3/16" = 1'-0"

| REV | REVISION/ISSUE DESCRIPTION | DATE |
|---|---|---|

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C.O.A.: #4925

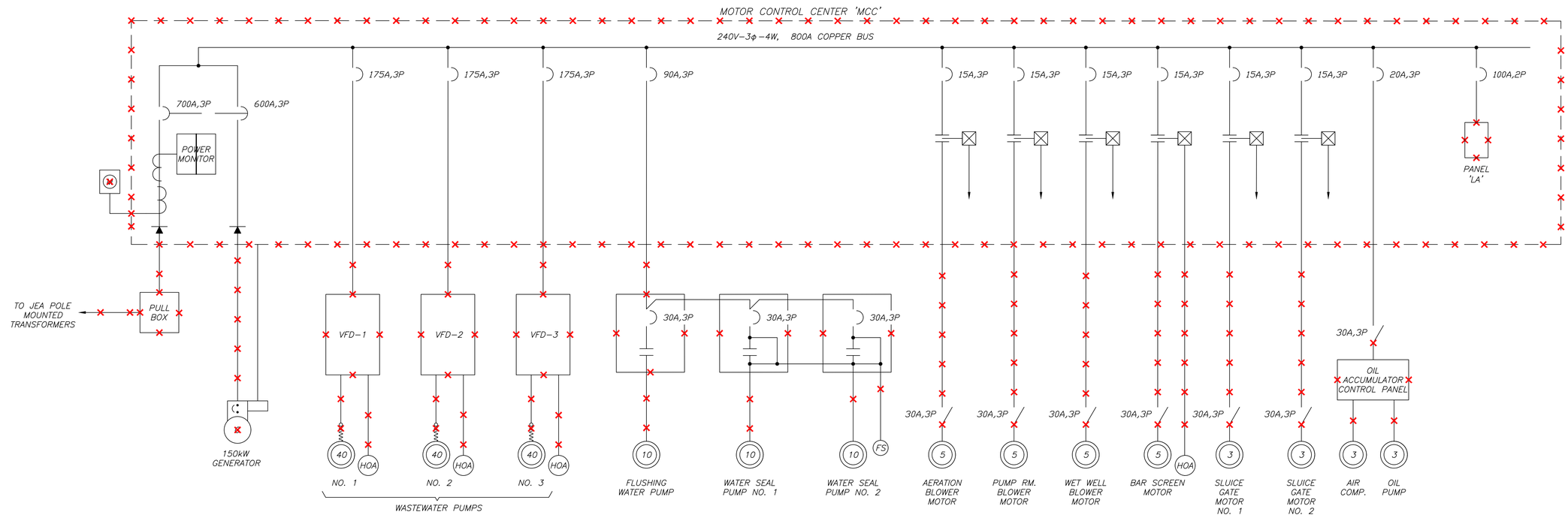
**Wastewater Pumping Station Upgrades**
4881 Timuquana Road
Jacksonville, Florida

LOWER LEVEL – LIGHTING – DEMOLITION & NEW WORK

PROJECT No. 2017-051
DATE: 5-3-2019
SCALE: AS NOTED
DRAWN BY: EE/JJ
CHECKED BY: LU

SHEET
**E-5**
49 of 51

BID REVIEW




## SINGLE LINE DIAGRAM - EXISTING

SCALE: 1" = 20'-0"

BID REVIEW

| REV | REVISION/ISSUE DESCRIPTION | DATE |
|---|---|---|

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**Wastewater Pumping Station Upgrades**
4881 Timuquana Road
Jacksonville, Florida

SINGLE LINE DIAGRAM – EXISTING

PROJECT No. 2017-051
DATE: 5-3-2019
SCALE: AS NOTED
DRAWN BY: EE/JJ
CHECKED BY: LU

SHEET
**E-6**
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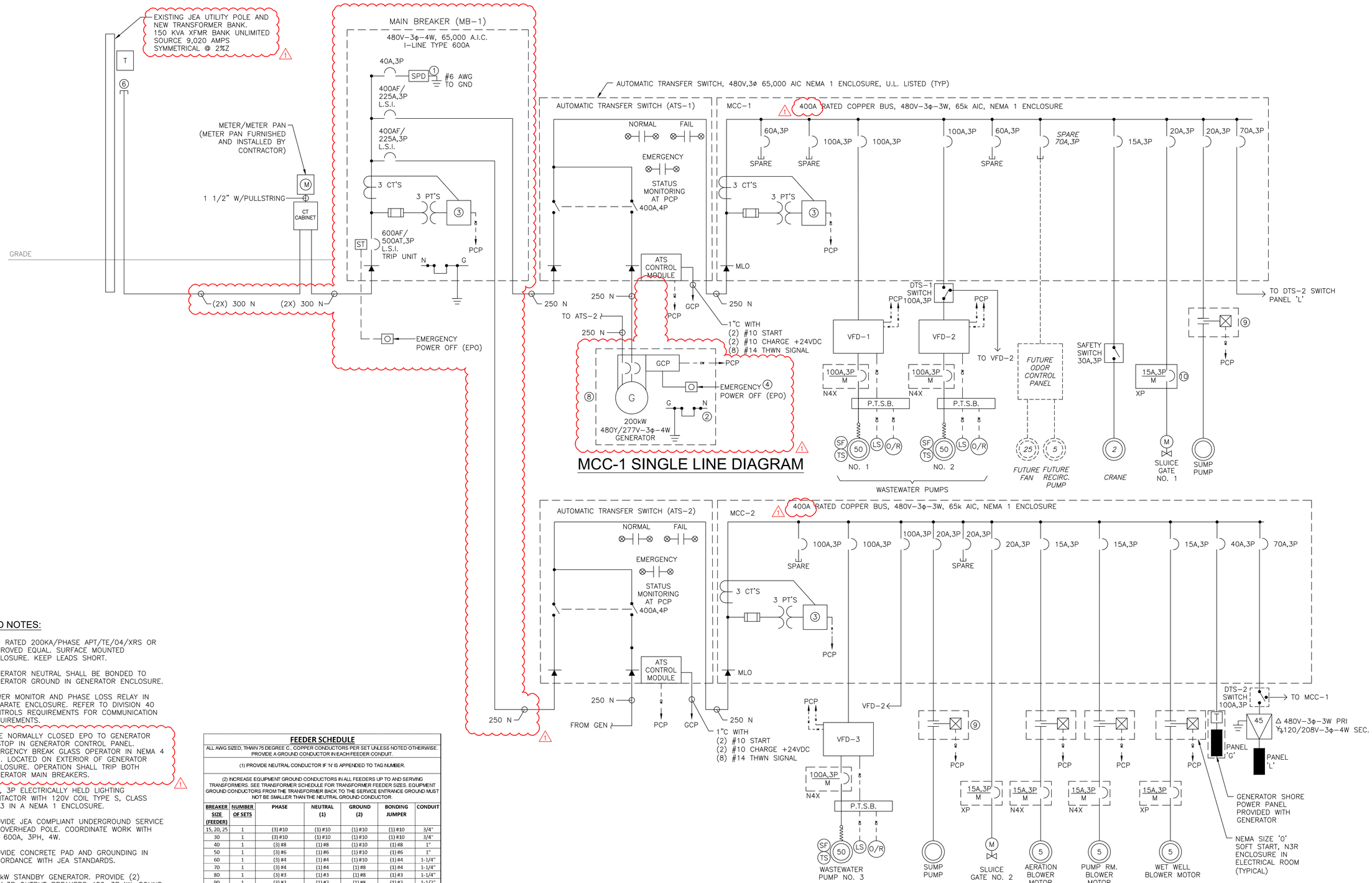


## KEYED NOTES:

1. SPD RATED 200KA/PHASE APT/TE/04/XRS OR APPROVED EQUAL. SURFACE MOUNTED ENCLOSURE. KEEP LEADS SHORT.
2. GENERATOR NEUTRAL SHALL BE BONDED TO GENERATOR GROUND IN GENERATOR ENCLOSURE.
3. POWER MONITOR AND PHASE LOSS RELAY IN SEPARATE ENCLOSURE. REFER TO DIVISION 40 CONTROLS REQUIREMENTS FOR COMMUNICATION REQUIREMENTS.
4. WIRE NORMALLY CLOSED EPO TO GENERATOR E-STOP IN GENERATOR CONTROL PANEL. EMERGENCY BREAK GLASS OPERATOR IN NEMA 4 BOX. LOCATED ON EXTERIOR OF GENERATOR ENCLOSURE. OPERATION SHALL TRIP BOTH GENERATOR MAIN BREAKERS.
5. 30A, 3P ELECTRICALLY HELD LIGHTING CONTACTOR WITH 120V COIL TYPE S, CLASS 8903 IN A NEMA 1 ENCLOSURE.
6. PROVIDE JEA COMPLIANT UNDERGROUND SERVICE TO OVERHEAD POLE. COORDINATE WORK WITH JEA 600A, 3PH, 4W.
7. PROVIDE CONCRETE PAD AND GROUNDING IN ACCORDANCE WITH JEA STANDARDS.
8. 200kW STANDBY GENERATOR. PROVIDE (2) 225A,3P OUTPUT BREAKERS 480v,3P,4W. SOUND ATTENUATING STORM RATED ENCLOSURE WITH CRITICAL SILENCER AND SUB-BASE 1,000-GALLON FUEL TANK.
9. NEMA SIZE 'O' SOFT START, N3R ENCLOSURE IN ELECTRICAL EQUIPMENT ROOM. (TYPICAL)
10. CLASS 1, DIVISION 2 EXPLOSION PROOF DISCONNECT WITH MAGNETIC TRIP ONLY CIRCUIT BREAKER. (TYPICAL)

## FEEDER SCHEDULE

ALL AWG SIZED, THWN 75 DEGREE C., COPPER CONDUCTORS PER SET UNLESS NOTED OTHERWISE. PROVIDE A GROUND CONDUCTOR IN EACH FEEDER CONDUIT.

(1) PROVIDE NEUTRAL CONDUCTOR IF 'N' IS APPENDED TO TAG NUMBER.

(2) INCREASE EQUIPMENT GROUND CONDUCTORS IN ALL FEEDERS UP TO AND SERVING TRANSFORMERS. SEE TRANSFORMER SCHEDULE FOR TRANSFORMER FEEDER SIZES. EQUIPMENT GROUND CONDUCTORS FROM THE TRANSFORMER BACK TO THE SERVICE ENTRANCE GROUND MUST NOT BE SMALLER THAN THE NEUTRAL GROUND CONDUCTOR.

| BREAKER SIZE (FEEDER) | NUMBER OF SETS | PHASE | NEUTRAL (1) | GROUND (2) | BONDING JUMPER | CONDUIT |
|---|---|---|---|---|---|---|
| 15, 20, 25 | 1 | (3) #10 | (1) #10 | (1) #10 | (1) #10 | 3/4" |
| 30 | 1 | (3) #10 | (1) #10 | (1) #10 | (1) #10 | 3/4" |
| 40 | 1 | (3) #8 | (1) #8 | (1) #10 | (1) #8 | 1" |
| 50 | 1 | (3) #6 | (1) #6 | (1) #10 | (1) #6 | 1" |
| 60 | 1 | (3) #4 | (1) #4 | (1) #10 | (1) #4 | 1-1/4" |
| 70 | 1 | (3) #4 | (1) #4 | (1) #8 | (1) #4 | 1-1/4" |
| 80 | 1 | (3) #3 | (1) #3 | (1) #8 | (1) #3 | 1-1/4" |
| 90 | 1 | (3) #2 | (1) #2 | (1) #8 | (1) #2 | 1-1/2" |
| 100 | 1 | (3) #1 | (1) #1 | (1) #8 | (1) #1 | 2" |
| 110 | 1 | (3) #1 | (1) #1 | (1) #6 | (1) #1 | 2" |
| 125 | 1 | (3) #1 | (1) #1 | (1) #6 | (1) #1 | 2" |
| 150 | 1 | (3) #1/0 | (1) #1/0 | (1) #6 | (1) #1/0 | 2" |
| 175 | 1 | (3) #2/0 | (1) #2/0 | (1) #6 | (1) #2/0 | 2" |
| 200 | 1 | (3) #3/0 | (1) #3/0 | (1) #6 | (1) #3/0 | 2-1/2" |
| 225 | 1 | (3) #4/0 | (1) #4/0 | (1) #4 | (1) #4/0 | 2-1/2" |
| 250 | 1 | (3) #250 kcmil | (1) #250 kcmil | (1) #4 | (1) #250 kcmil | 2-1/2" |
| 300 | 1 | (3) #350 kcmil | (1) #350 kcmil | (1) #4 | (1) #350 kcmil | 3-1/2" |
| 350 | 1 | (3) #500 kcmil | (1) #500 kcmil | (1) #3 | (1) #500 kcmil | 4" |
| 400 | 2 | (3) #3/0 | (1) #3/0 | (1) #2 | (1) #3/0 | 2-1/2" |

BID REVISION

| REV | REVISION/ISSUE DESCRIPTION | DATE |
|---|---|---|
| 1 | OWNER CHANGES | 3-26-21 |


Eng Engineering Inc
Eng Engineering Inc. 5000 Hickory Park, Jacksonville, FL 32207-9504 Tel: 904.737.6225 Fax: 904.737.6229 www.engengineering.com
MECHANICAL ELECTRICAL CIVIL FIRE PROTECTION PLUMBING STRUCTURAL
EDWARD J. ENG
FL. REG. P.E. #36785
C.O.A.: #4925


# Wastewater Pumping Station Upgrades

4881 Timuquana Road
Jacksonville, Florida

SINGLE LINE DIAGRAM – NEW WORK

| | |
|---|---|
| PROJECT No. | 2017-051 |
| DATE: | 5-3-2019 |
| SCALE: | AS NOTED |
| DRAWN BY: | EE/JJ |
| CHECKED BY: | LU |

SHEET
E-7
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