CONSTRUCTION DRAWINGS
FOR
SIPS-SOUTHSIDE BLVD.
INTERTIE TO DEERWOOD III WTP
VOLUME I OF IV
SIPS WATER MAIN AND RAW WATER MAIN

JEA PROJECT No. 8004887

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

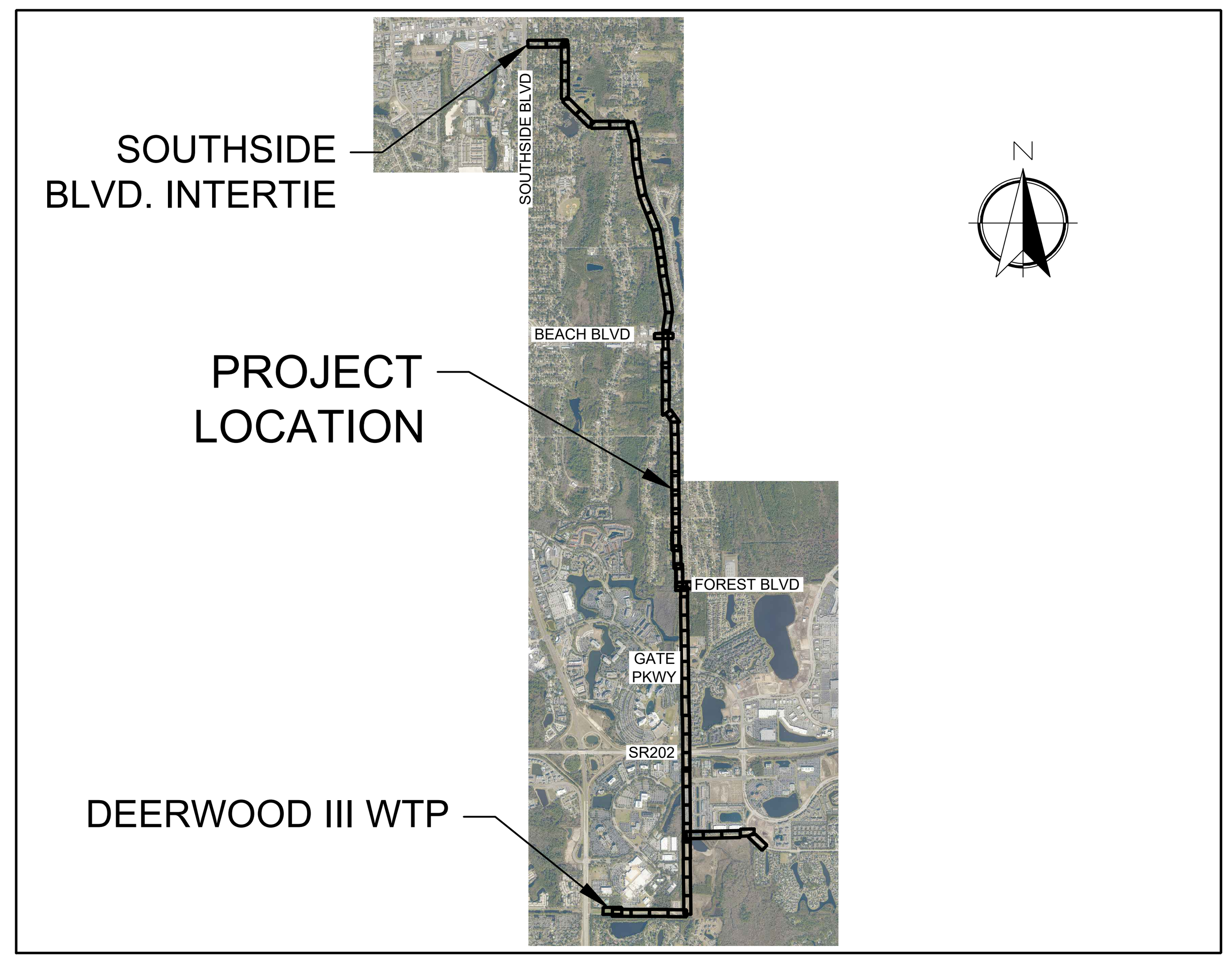
TRAFFIC SIGNS

Metro Name	______	$55.00	ea.	______
Standard	______	$55.00	ea.	______
Stop/Yield	______	$55.00	ea.	______
Design	______	$55.00		______
Installation	______	$55.00	/hr.	______
		TOTAL		______

☐ Streetlights Required

NOTE: Traffic sign costs change from time to time. If the costs change after plan approval but prior to payment for installation, the developer must pay the for the signs at the current costs. The above total assumes the subdivision will be platted as one phase. If the development is platted as separate phases, design and installation will be calculated separately for each phase.

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



VICINITY MAP

GRAPHIC SCALE
0 1,500 3,000
SCALE: 1" = 3,000'

PREPARED BY:

Jacobs
JACOBS PROJECT No. D32549S3
200 W FORSYTH STREET, SUITE 1520
JACKSONVILLE, FL 32202
TEL.: (904) 636-5432
FAX: (904) 224-3102
COA # 2822

PREPARED FOR:

JEA sm
Building Community sm

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 PROJECT INFORMATION

GENERAL	
City Development Number	4161.337
Concurrency Application Number	
Property Appraiser Number (RE #)	
Zoning Designation	
PUD Ordinance Number	
FIRM – Community – Panel	
Flood Zones (Show in Plans)	
Base Flood Elev. (Show in Plans)	
Vertical Datum Used for Project	NAVD 88
JEA Availability Number	
SUBDIVISION	
PSD Number	
City or Private Inspection	
Public or Private Roads	
Subdivision ("911") Disk Provided?	
NON-SUBDIVISION	
North American Industry Classification System (NAICS)	
Impervious Area (Sq. Ft.)	

90% DESIGN SUBMITTAL
MAY 2021
NOT FOR CONSTRUCTION

811
FOR BURIED UTILITY INFORMATION
THREE (3) BUSINESS DAYS BEFORE YOU DIG CALL 811
www.call811.com

Jacobs
200 WEST FORSYTH STREET, SUITE 1520
JACKSONVILLE, FL 32202
T: (904) 636-5432
F:(904) 224-3102
COA # 2822

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

DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO.
58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA sm
Building Community sm

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
COVER SHEET

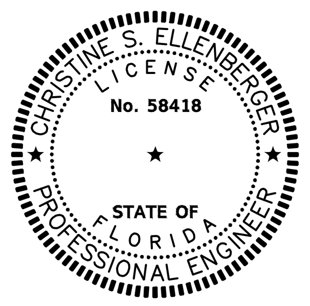
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN

JEA PROJ NO.: 8004887

NO. SHEETS	89
SHEET NO.	1
DRAWING NO.	G-1

THIS ITEM HAS BEEN DIGITALLY SIGNED
AND SEALED BY



ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

JACOBS ENGINEERING GROUP INC.
200 WEST FORSYTH STREET, SUITE 1520
JACKSONVILLE, FL 32202
CERTIFICATE OF AUTHORIZATION 2822
CHRISTINE S. ELLENBERGER, PE NO 58418

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH THE RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES AND LEGEND
4	LOCATION MAP AND SHEET INDEX
5-70	30" SIPS WATER MAIN PLAN AND PROFILE SHEETS
71-77	24" RAW WATER MAIN PLAN AND PROFILE SHEETS
78	4" FORCE MAIN RELOCATION PLAN AND PROFILE SHEET
79-89	DETAILS

C:\pwworking\jacobs_b&i\hilldc\d0228455\JEA G-SHEETS.dwg   Current Layout Tab = SIGNATURE SHEET   Thu May 27, 2021 - 23:36

Jacobs
200 WEST FORSYTH STREET, SUITE 1520
JACKSONVILLE, FL 32202
T:(904) 636-5432
F:(904) 224-3102
COA # 2822

NO.	BY	DATE	REVISIONS
6			
5			
4			
3			
2			
1			

DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO.
58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
SIGNATURE SHEET

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 2
DRAWING NO. G-2

JEA PROJ NO.: 8004887   PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

NOT APPLICABLE | APPLICABLE

SURVEY AND LOCATE DATA:

☐ ☒ 1. ALL ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM AND SHOWN IN FEET.

☐ ☒ 2. LOCATION OF EXISTING UTILITIES OBTAINED BY SOFT DIG LOCATES WHERE SHOWN ON PLANS, OR INCLUDED WITH BID SPECS.

☐ ☒ 3. EXISTING WATER AND SEWER LINES ARE SHOWN AS PER FIELD LOCATES OR SUPPLEMENTED WITH AS-BUILT PLANS.

☒ ☐ 4. UNDERGROUND UTILITIES WERE LOCATED UTILIZING GROUND PENETRATING RADAR (GPR) AND A DIGITAL LOCATOR. CONTRACTOR SHALL BE AWARE THAT IN SOME CASES UTILITIES HAVE BEEN COMPLETED AND SURVEY HAS BEEN COMPLETED ONLY ON ONE SIDE OF THE ROAD.

☐ ☒ 5. 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 FORCE MAINS AND WATER MAINS.

☐ ☒ 6. INVERT ELEVATIONS SHOWN ON DRAWINGS REFER TO THE CENTERLINE OF MANHOLES, UNLESS OTHERWISE INDICATED.

☐ ☒ 7. 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.

☐ ☒ 8. BENCHMARK DATA: SEE DEGROVE SURVEY AND R.E. HOLLAND SURVEY FOR THE PROJECT BENCHMARK DATA.

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. 01/15. 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.

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.
4. TRAFFIC SIGNAL LINES HAVE NOT BEEN LOCATED. CONTRACTOR TO LOCATE TRAFFIC SIGNAL LINES AT ALL SIGNALIZED INTERSECTIONS AT LEAST 14 DAYS IN ADVANCE OF CONSTRUCTION AT A SIGNALIZED INTERSECTIONS.

CITY OF JACKSONVILLE PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION PAVEMENT MARKINGS STANDARDS:

1. PAVEMENT MARKINGS SHOULD BE PLACED AS SHOWN ON THE PLANS AND DETAIL SHEETS.
2. ANY REQUIRED TEMPORARY MARKINGS MUST BE IN PLACE BEFORE OPENING LANES OF TRAFFIC, PAY ITEMS FOR TEMPORARY PAVEMENT MARKINGS ARE TO BE INCLUDED IN THE TABULATION OF QUANTITIES.
3. THE REMOVAL OF EXISTING PAVEMENT MARKINGS WILL BE CONSIDERED AN INCIDENTAL ITEM WITH NO ADDITIONAL COMPENSATION PROVIDED.
4. ALL PERMANENT PAVEMENT MARKINGS SHALL BE EXTRUDED THERMOPLASTIC AND MEET CURRENT CITY OF JACKSONVILLE SPECIFICATIONS AND/OR FDOT STANDARD SPECIFICATIONS, LATEST EDITION.
5. THERMOPLASTIC PAVEMENT MARKINGS ARE TO BE PLACE NO SOONER THAN 30 CALENDAR DAYS AFTER THE COMPLETION OF THE FINAL PAVEMENT LAYER.
6. A BITUMINOUS REFLECTIVE PAVEMENT MARKER (RPM) ADHESIVE MEETING CURRENT CITY OF JACKSONVILLE AND/OR FDOT SPECIFICATIONS SHALL BE USED ON ASPHALT ROADWAYS.
7. THE CONTRACTOR SHALL USE CLASS-B REFLECTIVE PAVEMENT MARKERS (RPMS) INSTALLED TO MEET CURRENT CITY OF JACKSONVILLE SPECIFICATIONS AND/OR FDOT STANDARD SPECIFICATIONS.
8. REFLECTIVE PAVEMENT MARKERS THAT DO NOT CONFLICT WITH PERMANENT (THERMOPLASTIC) MARKINGS SHALL BE PLACED ON ALL FINAL ASPHALTIC CONCRETE SURFACES IMMEDIATELY AFTER THE TEMPORARY PERMANENT STRIPING IS IN PLACE.
9. PAVEMENT MARKINGS REMOVAL.
   A. PAINT BLACKOUT METHOD OF PAVEMENT MARKINGS REMOVAL IS NOT ACCEPTABLE.
   B. GRINDING OR HYDRO BLAST METHODS SHALL BE USED ON WEATHERED ASPHALT SURFACES.
   C. REMOVAL ON NEW ASPHALT SURFACES SHALL BE BY HYDRO BLAST METHOD ONLY.
10. THE CONTRACTOR SHALL CONTACT THE PAVEMENT MARKING INSPECTOR (904) 255.7550 48 HOURS PRIOR TO INSTALLING ANY PAVEMENT MARKINGS ON ANY CITY OF JACKSONVILLE ROADWAY OR STREET.
11. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS OF THE CITY OF JACKSONVILLE AND THE SPECIFICATION OF THE FDOT. THE CITY OF JACKSONVILLE WILL PREVAIL.

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.
9. ALL WORK PERFORMED WITHIN AN EASEMENT OR A PUBLIC RIGHT OF WAY REQUIRES A SEPARATE PERMIT ISSUED BY THE CITY ENGINEER. ORDINANCE 69-941-688.

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. — 904-255-8762
E. CITY OF JACKSONVILLE ~ TRAFFIC OPERATIONS — 904-255-7533
F. FLORIDA DEPT. OF TRANSPORTATION — 904-360-5200
G. JEA ~ WATER COLLECTION & DISTRIBUTION ~ SCOTT BOYLE — 904-665-7907
H. JEA ~ SEWER COLLECTION & DISTRIBUTION ~ BILL GREEN — 904-665-8183
I. JEA ~ ELECTRICAL TRANSMISSION ~ SEBASTIAN CHMIST — 904-665-7016
J. JEA ~ ELECTRICAL DISTRIBUTION ~ MICHAEL SHORT — 904-665-7048
K. JEA ~ GENERAL INFORMATION — 904-665-6000
L. JEA ~ PROJECT OUTREACH — 904-665-7500
M. JEA ~ POWER OUTAGES — 904-665-6000
N. JEA ~ SEWER PROBLEMS — 904-665-4802
O. JEA ~ WATER PROBLEMS — 904-665-4801
P. JEA ~ WATER & SEWER LOCATES — 904-665-8410
Q. COMCAST ~ EMERGENCY HOTLINE — 904-380-6274
R. TECO/PEOPLES GAS ~ BEN MOBLEY — 904-545-8958
S. SUNSHINE ONE CALL — 811

GENERAL LEGEND

DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED
RIGHT OF WAY LINE	R/W		SAMPLE POINT		
CENTER LINE			SETTLEMENT MONITORING POINT		SMP-1
FENCE CHAIN LINK	X		PIEZOMETER		PZ-1
FENCE WOOD/OTHER			TOP OF BANK		
DRAINAGE SWALE			WETLAND DELINEATION		
STORM SEWER PIPE (WIDTH=PIPE SIZE)		SD	WETLAND		
STORM STRUCTURE (OUTLINE)	OR	OR	WETLAND, TEMPORARY IMPACT AREA		
WATER MAIN PIPE	W	W	VEGETATION		
VALVE (LAYER SPECIFIC)			RAW WATER MAIN PIPE	RAW	
FIRE HYDRANT			RECLAIMED WATER MAIN PIPE	RWM	RWM
END CAP			TO BE REMOVED		
REDUCER			ABANDON PER JEA STANDARDS SECTION 407		
WATER METER	W		JEA OVERHEAD ELECTRIC TRANSMISSION POLE/STRUCTURE, 20' OFFSET RADIUS		
NOMINAL FITTING			GOPHER TORTOISE BURROW W/25' OFFSET RADIUS		
SANITARY SEWER PIPE (WIDTH=PIPE SIZE)		SS			
SANITARY SEWER CLEANOUT					
SANITARY SEWER MANHOLE	SS		STORM WATER FORCE MAIN PIPE	SDF	SDF
FORCE MAIN PIPE	FM	FM			
MAIL BOX					
POWER POLE: WOOD					
POWER POLE: CONCRETE					
GUY WIRE					
TRAFFIC SIGNAL POLE					
SIGN					
OVERHEAD ELECTRIC	OHE				
UNDERGROUND ELECTRIC	UGE				
GAS MAIN	GAS				
CABLE TELEVISION	UGT				
FIBER-OPTIC LINE	FO				
TELEPHONE BOX	T				
CATV BOX	C				
IRON PIN					
CONCRETE MONUMENT					
SOIL BORING (INCLUDE NUMBER)		B-1			
TEST HOLE (INCLUDE NUMBER)		TH-1			
MARV (SEE DETAIL ON SHEET STD-3.01)					
TREE: SIZE & TYPE					
TREE REMOVAL					
LIMITS OF CONSTRUCTION					

INSTALLATION NOTES:

1. 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: 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.
2. ALL NEW STORM DRAIN PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.
3. THE DESIGN FOR THE PROJECT IS BASED UPON THE "OPEN-CUT", AUGER BORE, AND HDD METHODS OF CONSTRUCTION. IF USING ALTERNATIVE MEANS OR METHODS, THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE STANDARDS FOR THAT MEANS OR METHOD.
4. WATER SERVICES SHALL BE SUPPORTED AND PROTECTED DURING CONSTRUCTION. 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. THE CONTRACTOR SHALL COORDINATE WITH JEA PRIOR TO ANY OUTAGES.
5. 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).
6. 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.
7. CONTRACTOR SHALL REPLACE EXISTING WATER METER BOXES WHEN DEEMED NECESSARY BY THE JEA INSPECTOR.
8. CONTRACTOR TO PROVIDE ADDITIONAL DEPTH OF BURY VIA PIPE JOINT DEFLECTION TO ACCOMMODATE VALVE SELECTION PER JEA STANDARDS. GATE VALVES SHALL BE INSTALLED IN THE ORIENTATION NOTED ON THE DRAWINGS.
9. WATER METERS MAY REQUIRE RELOCATION FOR CONSTRUCTION, CONTRACTOR SHALL CONTACT JEA METER DEPARTMENT AND RELOCATE WATER METERS AS NECESSARY.
10. 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.
11. SHEET PILING OR ENGINEERED TRENCH SUPPORT WILL BE REQUIRED ON ALL EXCAVATIONS DEEPER THAN 16 FEET.
12. FOR DIP WITH POLYETHYLENE ENCASEMENT, ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP WITH POLYETHYLENE WRAP RESTRAINT JOINT SCHEDULE ON DETAIL SHEET STD-1.04. FOR DIP WITHOUT POLYETHYLENE ENCASEMENT, ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
13. FOR OPEN CUT PORTION: THE MAXIMUM JOINT DEFLECTION SHALL BE LIMITED TO 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION. BENDING OF THE PIPE BARREL IS NOT ALLOWED. NO JOINT DEFLECTION SHALL BE ALLOWED AT FITTINGS OR VALVES ON 24-INCH AND LARGER PIPE.
14. DEPTHS OF EXISTING UTILITIES SHOWN ON PROFILE ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
15. NO TREES SHALL BE REMOVED IN THE FDOT RIGHT-OF-WAY. CONTRACTOR TO PROTECT AND PRESERVE ALL TREES IN THE FDOT RIGHT-OF-WAY. CONTRACTOR SHALL RESTORE FDOT RIGHT-OF-WAY TO EXISTING GRADE AND CONDITION, SUBJECT TO FDOT REVIEW AND APPROVAL.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESSURE AND LEAKAGE TESTING, FLUSHING/SWABBING, AND DISINFECTING ALL NEW WATER MAINS. THE PRESSURE TEST SECTIONS SHALL BE BETWEEN ADJACENT PERMANENT INLINE VALVES OR BETWEEN THE LAST PERMANENT INLINE VALVE AND A STUB-OUT PLUG. AFTER SUCCESSFUL COMPLETION OF THE PRESSURE TESTS, THE CONTRACTOR SHALL LEAVE THE PRESSURE TEST WATER IN THE PIPELINE. THE CONTRACTOR SHALL THEN BE RESPONSIBLE TO PERFORM SWABBING AND DISINFECTION TESTING ON THE NEW WATER MAINS. SEE DETAILS ON SHEET STD-3.01 AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR THE FLUSHING/SWABBING AND DISINFECTION PROCESS.
17. WHERE INDICATED ON THE DRAWINGS, ALL DUCTILE IRON PIPE, FITTINGS, VALVES, AND APPURTENANCES SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT IN ACCORDANCE WITH AWWA C105 AND THE MANUFACTURER'S RECOMMENDATIONS. SEE TECHNICAL SPECIFICATIONS.
18. DISTURBANCE WITHIN THE JEA T-LINE SHALL BE LIMITED TO THE AREAS OUTLINED BY SILT FENCE ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL SUBMIT A STAGING, STORAGE, PIPE STRINGING, AND LIMITS OF DISTURBANCE PLAN TO THE JEA ELECTRICAL UTILITY GROUP AND JEA ENVIRONMENTAL GROUP VIA THE JEA PROJECT MANAGER FOR APPROVAL. NO STAGING OR STORAGE SHALL TAKE PLACE WITHIN 75 FEET OF AN ELECTRICAL TRANSMISSION STRUCTURE AND GUY ANCHORS. ALL EQUIPMENT AND CONSTRUCTION ACTIVITIES SHALL BE KEPT OUTSIDE A MINIMUM TWENTY FEET (20') FROM ALL ENERGIZED TRANSMISSION WIRES / CONDUCTORS (VERTICALLY OR HORIZONTALLY) AND TWENTY FEET (20') HORIZONTALLY FROM ALL TRANSMISSION STRUCTURES. THE CONTRACTOR SHALL COORDINATE WITH THE JEA ELECTRICAL UTILITY GROUP VIA THE JEA PROJECT MANAGER FOR ENTRY/EXIT PROTOCOL FOR THE JEA T-LINE. IF A 20-FOOT CLEARANCE CANNOT BE FEASIBLY MAINTAINED TO ENERGIZED CONDUCTORS/WIRES, AN OUTAGE ON THE IMPACTED TRANSMISSION CIRCUIT WILL NEED TO BE COORDINATED THROUGH THE JEA ELECTRIC TRANSMISSION PROJECT DESIGN DEPARTMENT (CONTACT SEBASTIAN CHMIST). JEA ASKS THAT A 3 MONTHS NOTICE BE GIVEN FOR SCHEDULING ANY OUTAGES ON THE TRANSMISSION SYSTEM. OUTAGES ARE MORE FEASIBLE DURING THE FALL AND SPRING MONTHS AND ARE NOT GUARANTEED AS THEY ARE DEPENDENT ON SYSTEM LOADS/EMERGENCIES.
19. CONTRACTOR SHALL MAINTAIN T-LINE ACCESS TO JEA AT ALL TIMES. IF ACCESS ROAD IS IMPACTED OR BLOCKED, THE CONTRACTOR SHALL COORDINATE WITH THE JEA ELECTRICAL UTILITY GROUP VIA THE JEA PROJECT MANAGER A MINIMUM OF 2 WEEKS IN ADVANCE. THE CONTRACTOR SHALL RESTORE ANY DISTURBED PORTIONS OF THE JEA T-LINE ACCESS DRIVE TO MATCH PRECONSTRUCTION CONDITIONS. THE MANNER IN WHICH THIS IS ACCOMPLISHED SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT AND PRIOR APPROVAL OF THE JEA PROJECT MANAGER. THE JEA PROJECT MANAGER APPROVAL IN NO WAY RELIEVES THE CONTRACTOR OF ANY LIABILITIES RESULTING FROM THE RESTORATION METHOD CHOSEN. STONE AGGREGATE SHALL BE USED TO PROVIDE A FINAL DRIVING SURFACE FOR THE RESTORED PORTIONS.
20. THE CONTRACTOR SHALL CAREFULLY REMOVE AND RELOCATE MAILBOXES AFFECTED BY CONSTRUCTION OPERATIONS TO ALLOW FOR UNINTERRUPTED MAIL SERVICE. ALL TEMPORARY RELOCATED MAILBOXES SHALL BE REINSTALLED PERMANENTLY AS SOON AS CONSTRUCTION OPERATIONS ALLOW. THE CONDITION OF THE REINSTALLED MAILBOXES SHALL BE AT LEAST EQUAL TO THE ORIGINAL FACILITY, AS DIRECTED BY JEA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL, RELOCATION OR REINSTALLATION OF MAILBOX.

ABBREVIATIONS:

ABAN	ABANDONED	FL	FLOW LINE	R.C.P.	REINFORCED CONCRETE PIPE
AC	ASBESTOS CEMENT	FM	FORCE MAIN	RT	RIGHT
A.G.	ALLEY GRATE	GALV./GLV	GALVANIZED	RW	RIGHT OF WAY
ALF	ALUMINUM FENCE	G	GAS LINE	R.D.	ROOF DRAIN
APPROX	APPROXIMATELY	G.V.	GAS VALVE	RJ	RESTRAINED JOINT(S)
BL	BASELINE	HDPE	HIGH DENSITY POLYETHYLENE	S/W	SIDE WALK
B.M.	BENCH MARK	H.W.	HEAD WALL	S.B.T.	SOUTHERN BELL TELEPHONE
B.O.C.	BOTTOM OF CURVE	H.C.	HIGH CURB	SIPS	SOUTHSIDE INTEGRATED PIPING SYSTEM
C.B.	CATCH BASIN	HDD	HORIZONTAL DIRECTIONAL DRILL	SMP	SETTLEMENT MONITORING POINT
C.I.	CAST IRON	HORZ	HORIZONTAL	SS	STAINLESS STEEL
CL	CENTER LINE	HPC	HORIZONTAL POINT OF CURVATURE	STA	STATION
C.E.P.	CITY ELECTRIC POLE	HPT	HORIZONTAL POINT OF TANGENCY	TC	TOP OF CURVE
CLDI	CEMENT LINED DUCTILE IRON	IN	INCH	TEMP	TEMPORARY
CLF	CHAIN LINK FENCE	INT.	INTERSECTION	TR	TREE REMOVAL
CONC.	CONCRETE	INV.	INVERT	TWMP	TOTAL WATER MANAGEMENT PLAN
CONST	CONSTRUCTION	I.P.	IRON PIPE	TYP	TYPICAL
COJ	CITY OF JACKSONVILLE	J.W.W.	JACKSONVILLE WATER WORKS	U.G.E.	UNDERGROUND ELECTRIC
C.M.P.	CORRUGATED METAL PIPE	L.L.	LONG LEAF	U.G.T.	UNDERGROUND TELEPHONE
C.M.P.A.	CORRUGATED METAL PIPE ARCH	LT.	LEFT	U.S.C. & G.S.	UNITED STATES COASTAL & GEODETIC SURVEY
CULV	CULVERT	MARV	MANUAL AIR RELEASE VALVE		
C & G	CURB & GUTTER	MB	MAIL BOX	V.C.	VITRIFIED CLAY
C	CUT	M.H.	MANHOLE	VERT	VERTICAL
D.B.I	DITCH BOTTOM INVERT	MJ	MECHANICAL JOINT	VPT	VERTICAL POINT OF TANGENCY
D.W. OR DR	DRIVEWAY	MOT	MAINTENANCE OF TRAFFIC	VPC	VERTICAL POINT OF CURVATURE
D.I.	DUCTILE IRON	MP	MONITORING POINT	WM	WATER METER, WATER MAIN
DIPS	DUCTILE IRON PIPE SIZE	N.T.S.	NOT TO SCALE	W.V.	WATER VALVE
DR	DIMENSION RATIO	O.E.	OVERHEAD ELECTRIC	WLP	WOOD LIGHT POLE
E.O.P.	EDGE OF PAVEMENT	OS	OFFSET	WPP	WOOD POWER POLE
ELEV.	ELEVATION	O.T.	OVERHEAD TELEPHONE	WTP	WOOD TELEPHONE POLE
ERCP	ELLIPTICAL REINFORCED CONC. PIPE	PC	PRESSURE CLASS		
		P.R.M.	PERMANENT REFERENCE MONUMENT		
EXP.JT.	EXPANSION JOINT	PROF	PROFILE		
F	FILL	PVC	POLYVINYL CHLORIDE		
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION	PZ	PIEZOMETER		
		r	RADIUS		
F.H.	FIRE HYDRANT	R	RATE		

NOTE:

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

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DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

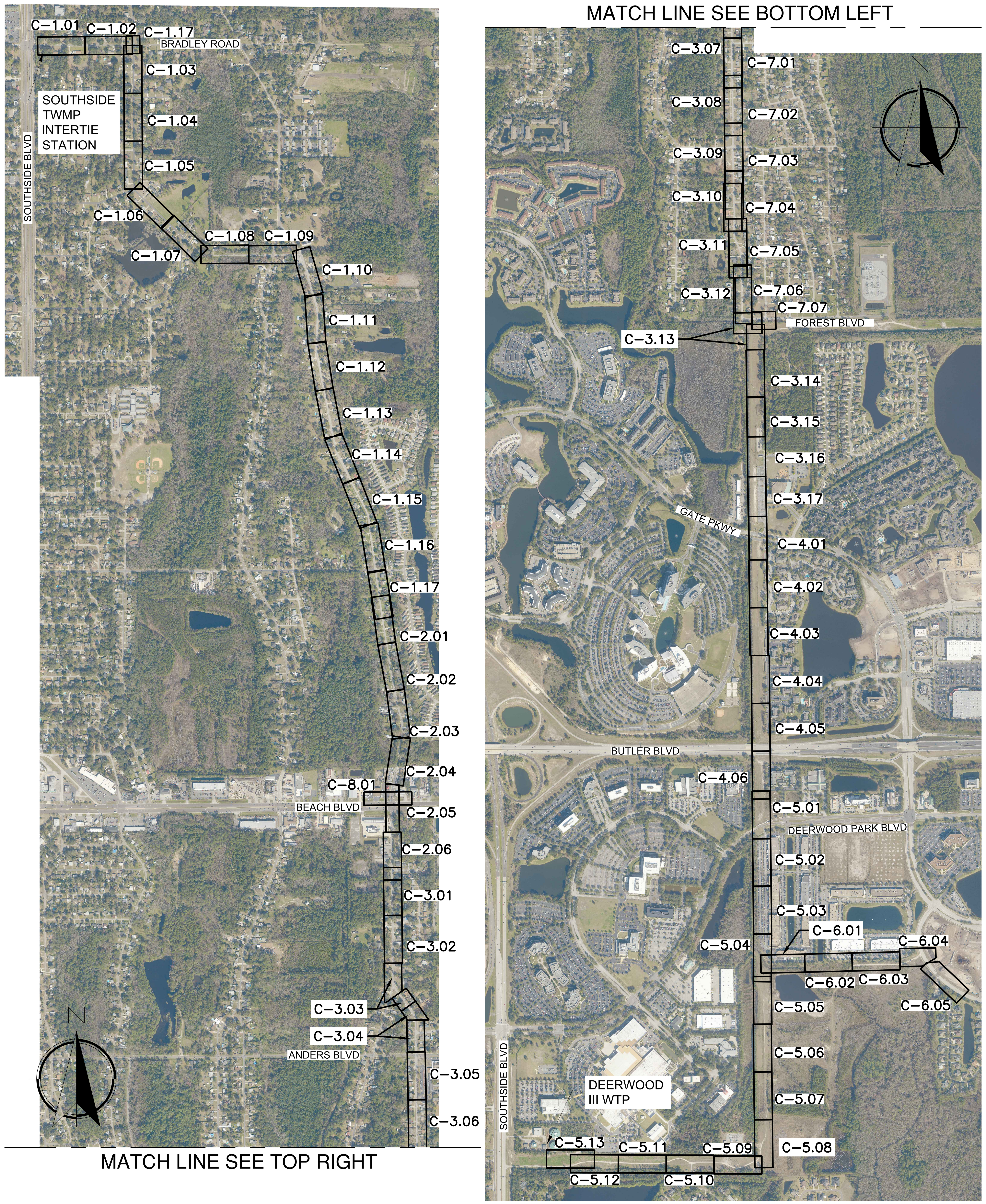
JEA Building Community[sm]

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
GENERAL NOTES AND LEGEND

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN
NO. SHEETS	89
SHEET NO.	3
DRAWING NO.	G-3



LOCATION PLAN

SCALE: 1" = 750'

750' 0 375' 750'
SCALE: 1" = 750'

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

INDEX OF DRAWINGS

SHEET NUMBER	DRAWING NUMBER	SHEET TITLE
	GENERAL	
1	G-1	COVER SHEET
2	G-2	SIGNATURE SHEET
3	G-3	GENERAL NOTES AND LEGEND
4	G-4	LOCATION MAP AND SHEET INDEX
	SIPS WATER MAIN	
5	C-1.01	30IN SIPS WM PLAN & PROFILE BEGIN TO STA 106+00
6	C-1.02	30IN SIPS WM PLAN & PROFILE STA 106+00 TO 112+00
7	C-1.03	30IN SIPS WM PLAN & PROFILE STA 112+00 TO 118+00
8	C-1.04	30IN SIPS WM PLAN & PROFILE STA 118+00 TO 124+00
9	C-1.05	30IN SIPS WM PLAN & PROFILE STA 124+00 TO 130+00
10	C-1.06	30IN SIPS WM PLAN & PROFILE STA 130+00 TO 136+00
11	C-1.07	30IN SIPS WM PLAN & PROFILE STA 136+00 TO 142+00
12	C-1.08	30IN SIPS WM PLAN & PROFILE STA 142+00 TO 148+00
13	C-1.09	30IN SIPS WM PLAN & PROFILE STA 148+00 TO 154+00
14	C-1.10	30IN SIPS WM PLAN & PROFILE STA 154+00 TO 160+00
15	C-1.11	30IN SIPS WM PLAN & PROFILE STA 160+00 TO 166+00
16	C-1.12	30IN SIPS WM PLAN & PROFILE STA 166+00 TO 172+00
17	C-1.13	30IN SIPS WM PLAN & PROFILE STA 172+00 TO 178+00
18	C-1.14	30IN SIPS WM PLAN & PROFILE STA 178+00 TO 184+00
19	C-1.15	30IN SIPS WM PLAN & PROFILE STA 184+00 TO 190+00
20	C-1.16	30IN SIPS WM PLAN & PROFILE STA 190+00 TO 196+00
21	C-1.17	30IN SIPS WM PLAN & PROFILE STA 196+00 TO C-2.01
22	C-2.01	30IN SIPS WM PLAN & PROFILE STA 200+00 TO 206+00
23	C-2.02	30IN SIPS WM PLAN & PROFILE STA 206+00 TO 212+00
24	C-2.03	30IN SIPS WM PLAN & PROFILE STA 212+00 TO 218+00
25	C-2.04	30IN SIPS WM PLAN & PROFILE STA 218+00 TO 224+00
26	C-2.05	30IN SIPS WM PLAN & PROFILE STA 224+00 TO 230+00
27	C-2.06	30IN SIPS WM PLAN & PROFILE STA 230+00 TO C-3.01
28	C-3.01	30IN SIPS WM PLAN & PROFILE STA 300+00 TO 306+00
29	C-3.02	30IN SIPS WM PLAN & PROFILE STA 306+00 TO 312+00
30	C-3.03	30IN SIPS WM PLAN & PROFILE STA 312+00 TO 318+00
31	C-3.04	30IN SIPS WM PLAN & PROFILE STA 318+00 TO 324+00
32	C-3.05	30IN SIPS WM PLAN & PROFILE STA 324+00 TO 330+00
33	C-3.06	30IN SIPS WM PLAN & PROFILE STA 330+00 TO 336+00
34	C-3.07	30IN SIPS WM PLAN & PROFILE STA 336+00 TO 342+00
35	C-3.08	30IN SIPS WM PLAN & PROFILE STA 342+00 TO 348+00
36	C-3.09	30IN SIPS WM PLAN & PROFILE STA 348+00 TO 354+00
37	C-3.10	30IN SIPS WM PLAN & PROFILE STA 354+00 TO 360+00
38	C-3.11	30IN SIPS WM PLAN & PROFILE STA 360+00 TO 366+00
39	C-3.12	30IN SIPS WM PLAN & PROFILE STA 366+00 TO 372+00
40	C-3.13	30IN SIPS WM PLAN & PROFILE STA 372+00 TO 378+00
41	C-3.14	30IN SIPS WM PLAN & PROFILE STA 378+00 TO 384+00
42	C-3.15	30IN SIPS WM PLAN & PROFILE STA 384+00 TO 389+00
43	C-3.16	30IN SIPS WM PLAN & PROFILE STA 389+00 TO 394+00
44	C-3.17	30IN SIPS WM PLAN & PROFILE STA 394+00 TO 399+00
45	C-4.01	30IN SIPS WM PLAN & PROFILE STA 399+00 TO 405+00
46	C-4.02	30IN SIPS WM PLAN & PROFILE STA 405+00 TO 411+00
47	C-4.03	30IN SIPS WM PLAN & PROFILE STA 411+00 TO 417+00
48	C-4.04	30IN SIPS WM PLAN & PROFILE STA 417+00 TO 423+00
49	C-4.05	30IN SIPS WM PLAN & PROFILE STA 423+00 TO 429+00
50	C-4.06	30IN SIPS WM PLAN & PROFILE STA 429+00 TO C-5.01
51	C-4.07	SIPS WM JTB HDD - OVERALL PLAN AND PROFILE
52	C-4.08	SIPS WM JTB HDD - PIPE LAYDOWN PLAN
53	C-5.01	30IN SIPS WM PLAN & PROFILE STA 500+00 TO 506+00
54	C-5.02	30IN SIPS WM PLAN & PROFILE STA 506+00 TO 512+00
55	C-5.03	30IN SIPS WM PLAN & PROFILE STA 512+00 TO 518+00
56	C-5.04	30IN SIPS WM PLAN & PROFILE STA 518+00 TO 524+00
57	C-5.05	30IN SIPS WM PLAN & PROFILE STA 524+00 TO 530+00
58	C-5.06	30IN SIPS WM PLAN & PROFILE STA 530+00 TO 536+00
59	C-5.07	30IN SIPS WM PLAN & PROFILE STA 536+00 TO 542+00
60	C-5.08	30IN SIPS WM PLAN & PROFILE STA 542+00 TO 546+00
61	C-5.09	30IN SIPS WM PLAN & PROFILE STA 546+00 TO 551+00
62	C-5.10	30IN SIPS WM PLAN & PROFILE STA 551+00 TO 557+00
63	C-5.11	30IN SIPS WM PLAN & PROFILE STA 557+00 TO 563+00
64	C-5.12	30IN SIPS WM PLAN & PROFILE STA 563+00 TO 569+00
65	C-5.13	30IN SIPS WM PLAN & PROFILE STA 569+00 TO END
66	C-6.01	30IN SIPS WM PLAN & PROFILE STA 600+00 TO 605+00
67	C-6.02	30IN SIPS WM PLAN & PROFILE STA 605+00 TO 611+00
68	C-6.03	30IN SIPS WM PLAN & PROFILE STA 611+00 TO 617+00
69	C-6.04	30IN SIPS WM PLAN & PROFILE STA 617+00 TO 621+00
70	C-6.05	30IN SIPS WM PLAN & PROFILE STA 621+00 TO END
	RAW WATER MAIN	
71	C-7.01	24IN RAW WM PLAN & PROFILE STA 700+00 TO 706+00
72	C-7.02	24IN RAW WM PLAN & PROFILE STA 706+00 TO 712+00
73	C-7.03	24IN RAW WM PLAN & PROFILE STA 712+00 TO 718+00
74	C-7.04	24IN RAW WM PLAN & PROFILE STA 718+00 TO 724+00
75	C-7.05	24IN RAW WM PLAN & PROFILE STA 724+00 TO 730+00
76	C-7.06	24IN RAW WM PLAN & PROFILE STA 730+00 TO 736+00
77	C-7.07	24IN RAW WM PLAN & PROFILE STA 736+00 TO END

	FORCE MAIN	
78	C-8.01	4IN FORCE MAIN RELOCATION AT BEACH BLVD
	STANDARD AND MISCELLANEOUS DETAILS	
79	STD-1.01	STANDARD WATER DETAILS 1
80	STD-1.02	STANDARD WATER DETAILS 2
81	STD-1.03	STANDARD WATER DETAILS 3
82	STD-1.04	STANDARD WATER DETAILS 4
83	STD-1.05	STANDARD WATER DETAILS 5
84	STD-1.06	STANDARD WATER DETAILS 6
85	STD-2.01	STANDARD SANITARY DETAILS 1
86	STD-2.02	STANDARD SANITARY DETAILS 2
87	STD-2.03	STANDARD SANITARY DETAILS 3
88	STD-2.04	STANDARD SANITARY DETAILS 4
89	STD-3.01	MISCELLANEOUS DETAILS

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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

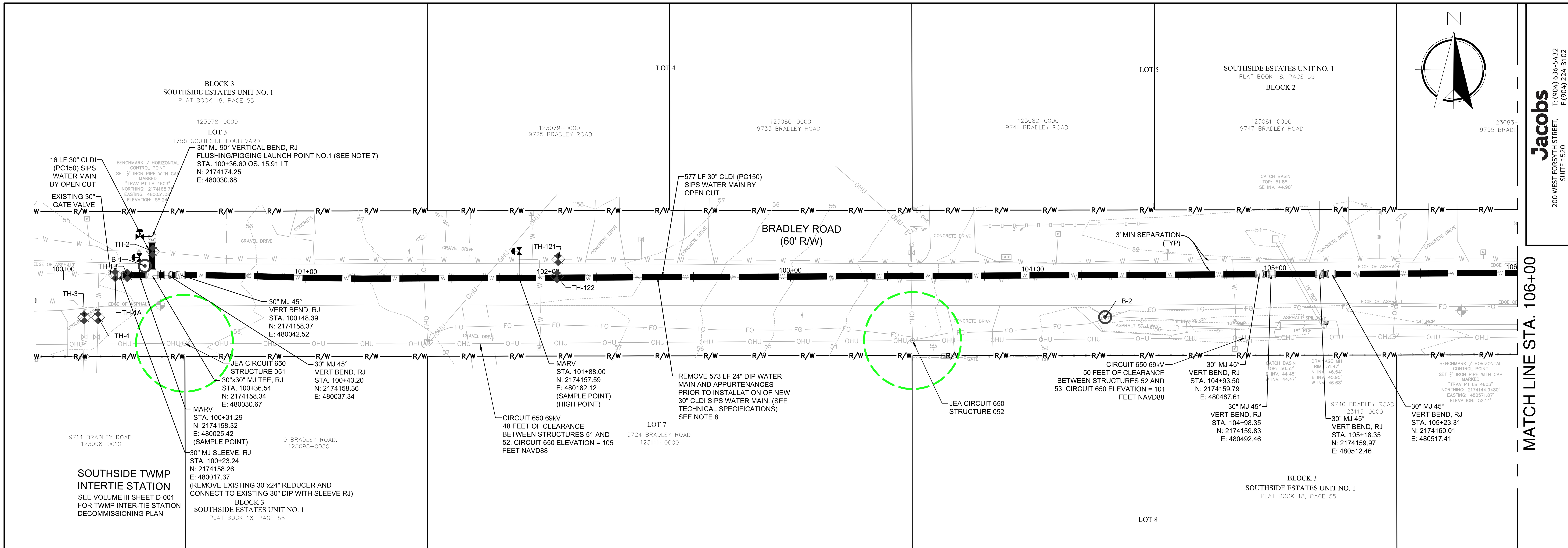
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
LOCATION MAP AND SHEET INDEX

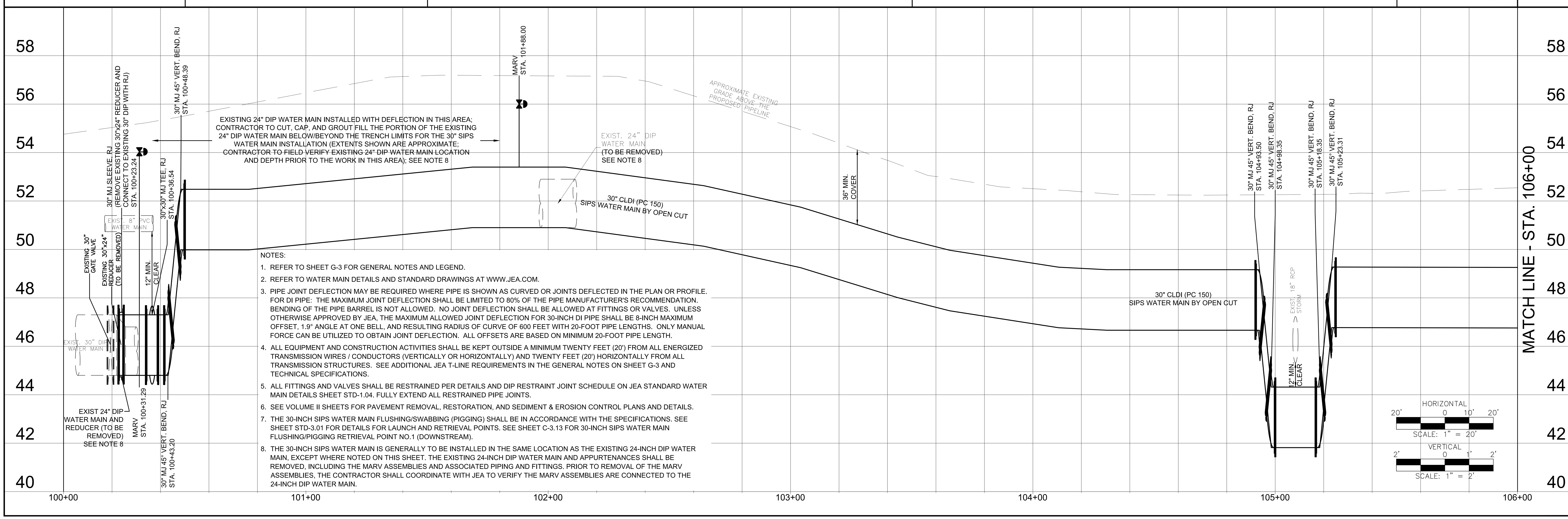
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 4
DRAWING NO. G-4





NOTES:

1. REFER TO SHEET G-3 FOR GENERAL NOTES AND LEGEND.
2. REFER TO WATER MAIN DETAILS AND STANDARD DRAWINGS AT WWW.JEA.COM.
3. PIPE JOINT DEFLECTION MAY BE REQUIRED WHERE PIPE IS SHOWN AS CURVED OR JOINTS DEFLECTED IN THE PLAN OR PROFILE. FOR DI PIPE: THE MAXIMUM JOINT DEFLECTION SHALL BE LIMITED TO 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION. BENDING OF THE PIPE BARREL IS NOT ALLOWED. NO JOINT DEFLECTION SHALL BE ALLOWED AT FITTINGS OR VALVES. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ALLOWED JOINT DEFLECTION FOR 30-INCH DI PIPE SHALL BE 8-INCH MAXIMUM OFFSET, 1.9° ANGLE AT ONE BELL, AND RESULTING RADIUS OF CURVE OF 600 FEET WITH 20-FOOT PIPE LENGTHS. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20-FOOT PIPE LENGTH.
4. ALL EQUIPMENT AND CONSTRUCTION ACTIVITIES SHALL BE KEPT OUTSIDE A MINIMUM TWENTY FEET (20') FROM ALL ENERGIZED TRANSMISSION WIRES / CONDUCTORS (VERTICALLY OR HORIZONTALLY) AND TWENTY FEET (20') HORIZONTALLY FROM ALL TRANSMISSION STRUCTURES. SEE ADDITIONAL JEA T-LINE REQUIREMENTS IN THE GENERAL NOTES ON SHEET G-3 AND TECHNICAL SPECIFICATIONS.
5. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
6. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.
7. THE 30-INCH SIPS WATER MAIN FLUSHING/SWABBING (PIGGING) SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. SEE SHEET STD-3.01 FOR DETAILS FOR LAUNCH AND RETRIEVAL POINTS. SEE SHEET C-3.13 FOR 30-INCH SIPS WATER MAIN FLUSHING/PIGGING RETRIEVAL POINT NO.1 (DOWNSTREAM).
8. THE 30-INCH SIPS WATER MAIN IS GENERALLY TO BE INSTALLED IN THE SAME LOCATION AS THE EXISTING 24-INCH DIP WATER MAIN, EXCEPT WHERE NOTED ON THIS SHEET. THE EXISTING 24-INCH DIP WATER MAIN AND APPURTENANCES SHALL BE REMOVED, INCLUDING THE MARV ASSEMBLIES AND ASSOCIATED PIPING AND FITTINGS. PRIOR TO REMOVAL OF THE MARV ASSEMBLIES, THE CONTRACTOR SHALL COORDINATE WITH JEA TO VERIFY THE MARV ASSEMBLIES ARE CONNECTED TO THE 24-INCH DIP WATER MAIN.

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSELBG	
DRAWN BY:	DDHWBG	
DATE:	MAY 2021	
CHECKED BY:	CDJ	
DATE:	MAY 2021	

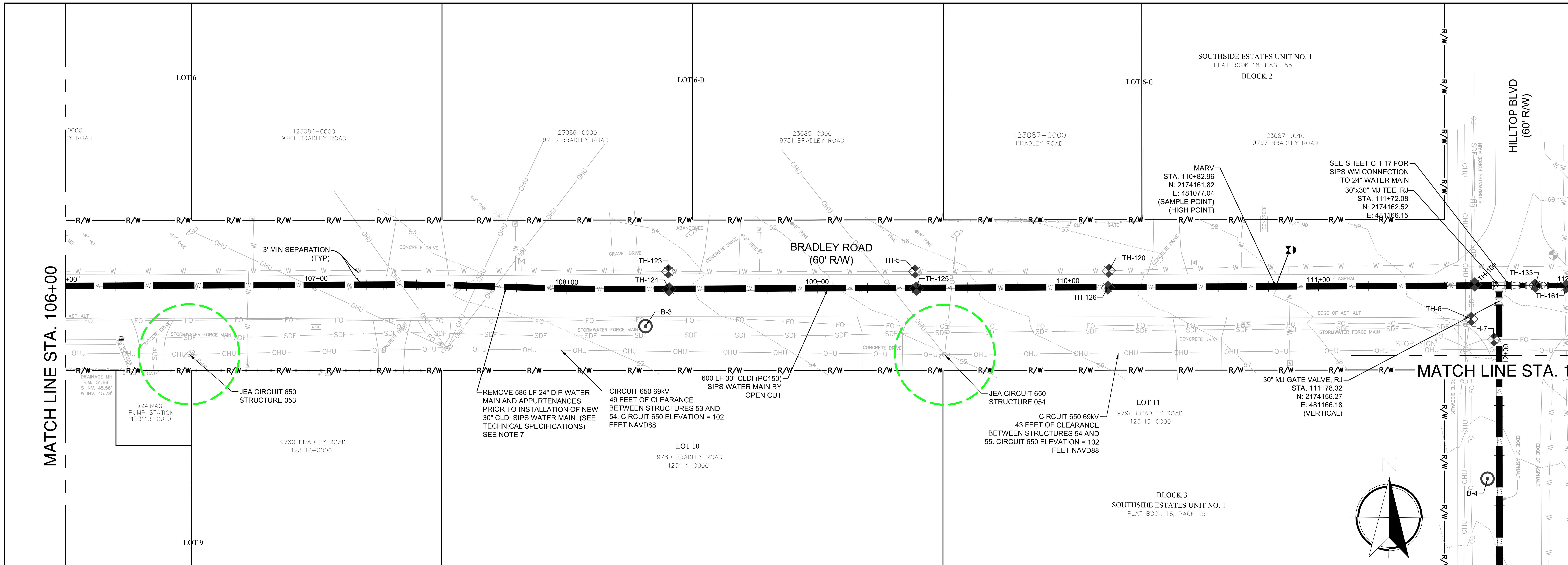
JEA Building Community

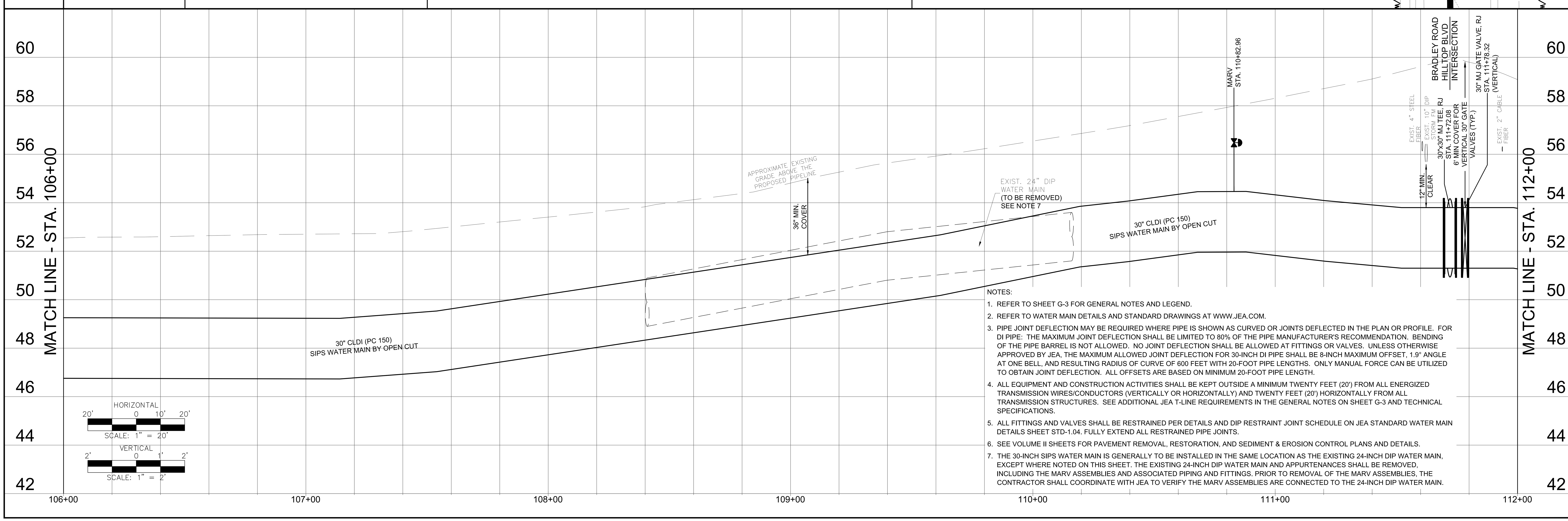
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE BEGIN TO STA 106+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO.	D3254S3
DATE:	MAY 2021
SCALE:	AS SHOWN
NO. SHEETS	89
SHEET NO.	5
DRAWING NO.	C-1.01





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4. ALL EQUIPMENT AND CONSTRUCTION ACTIVITIES SHALL BE KEPT OUTSIDE A MINIMUM TWENTY FEET (20') FROM ALL ENERGIZED TRANSMISSION WIRES/CONDUCTORS (VERTICALLY OR HORIZONTALLY) AND TWENTY FEET (20') HORIZONTALLY FROM ALL TRANSMISSION STRUCTURES. SEE ADDITIONAL JEA T-LINE REQUIREMENTS IN THE GENERAL NOTES ON SHEET G-3 AND TECHNICAL SPECIFICATIONS.
5. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
6. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.
7. THE 30-INCH SIPS WATER MAIN IS GENERALLY TO BE INSTALLED IN THE SAME LOCATION AS THE EXISTING 24-INCH DIP WATER MAIN, EXCEPT WHERE NOTED ON THIS SHEET. THE EXISTING 24-INCH DIP WATER MAIN AND APPURTENANCES SHALL BE REMOVED, INCLUDING THE MARV ASSEMBLIES AND ASSOCIATED PIPING AND FITTINGS. PRIOR TO REMOVAL OF THE MARV ASSEMBLIES, THE CONTRACTOR SHALL COORDINATE WITH JEA TO VERIFY THE MARV ASSEMBLIES ARE CONNECTED TO THE 24-INCH DIP WATER MAIN.

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FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

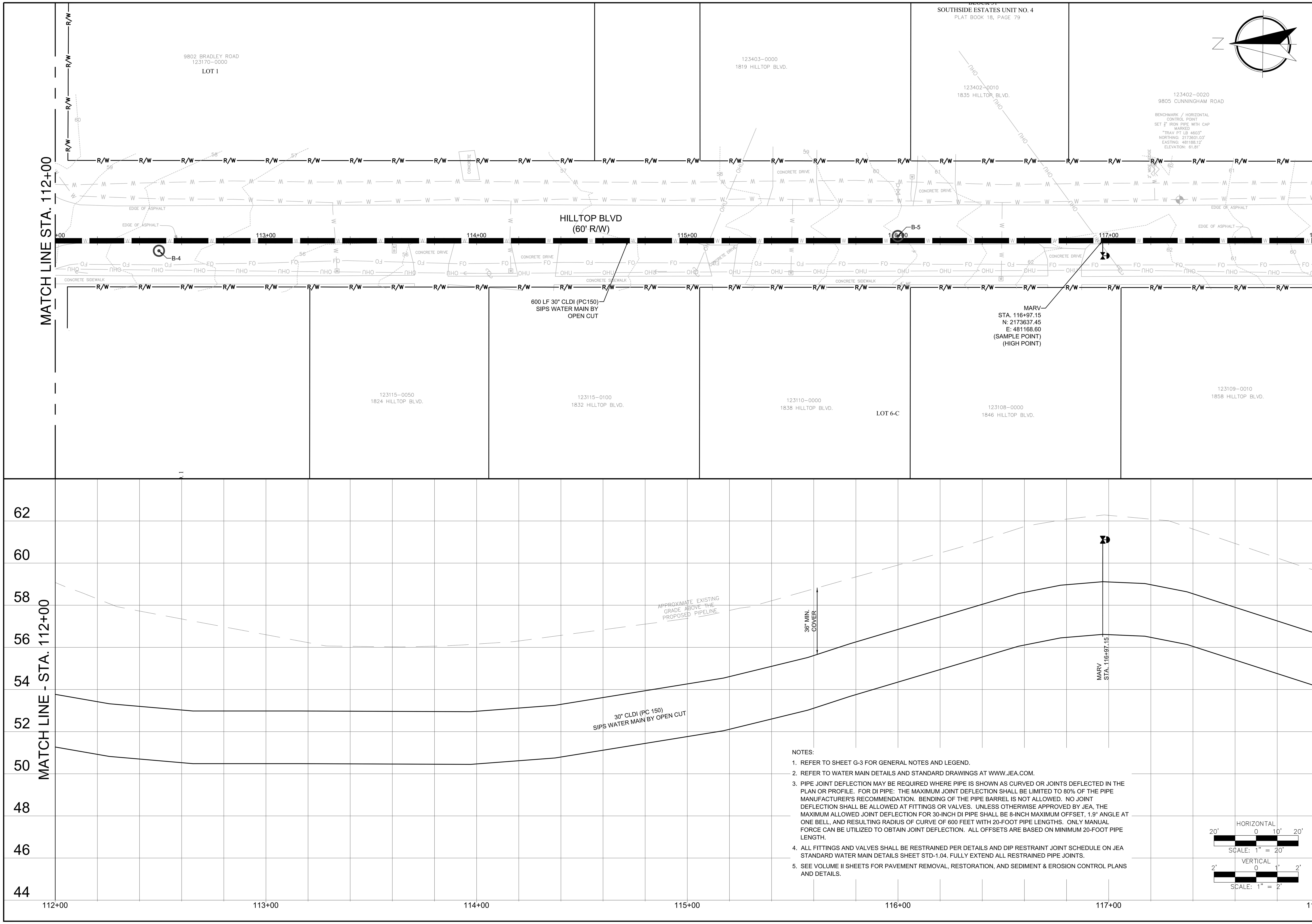
JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 106+00 TO 112+00

PROJ. NO.	D3254953
DATE:	MAY 2021
SCALE:	AS SHOWN
NO. SHEETS	89
SHEET NO.	6
DRAWING NO.	C-1.02

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887



NOTES:

1. REFER TO SHEET G-3 FOR GENERAL NOTES AND LEGEND.
2. REFER TO WATER MAIN DETAILS AND STANDARD DRAWINGS AT WWW.JEA.COM.
3. PIPE JOINT DEFLECTION MAY BE REQUIRED WHERE PIPE IS SHOWN AS CURVED OR JOINTS DEFLECTED IN THE PLAN OR PROFILE. FOR DI PIPE: THE MAXIMUM JOINT DEFLECTION SHALL BE LIMITED TO 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION. BENDING OF THE PIPE BARREL IS NOT ALLOWED. NO JOINT DEFLECTION SHALL BE ALLOWED AT FITTINGS OR VALVES. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ALLOWED JOINT DEFLECTION FOR 30-INCH DI PIPE SHALL BE 8-INCH MAXIMUM OFFSET, 1.9° ANGLE AT ONE BELL, AND RESULTING RADIUS OF CURVE OF 600 FEET WITH 20-FOOT PIPE LENGTHS. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20-FOOT PIPE LENGTH.
4. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
5. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

Jacobs
200 WEST FORSYTH STREET, SUITE 1520
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T:(904) 636-5432
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COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

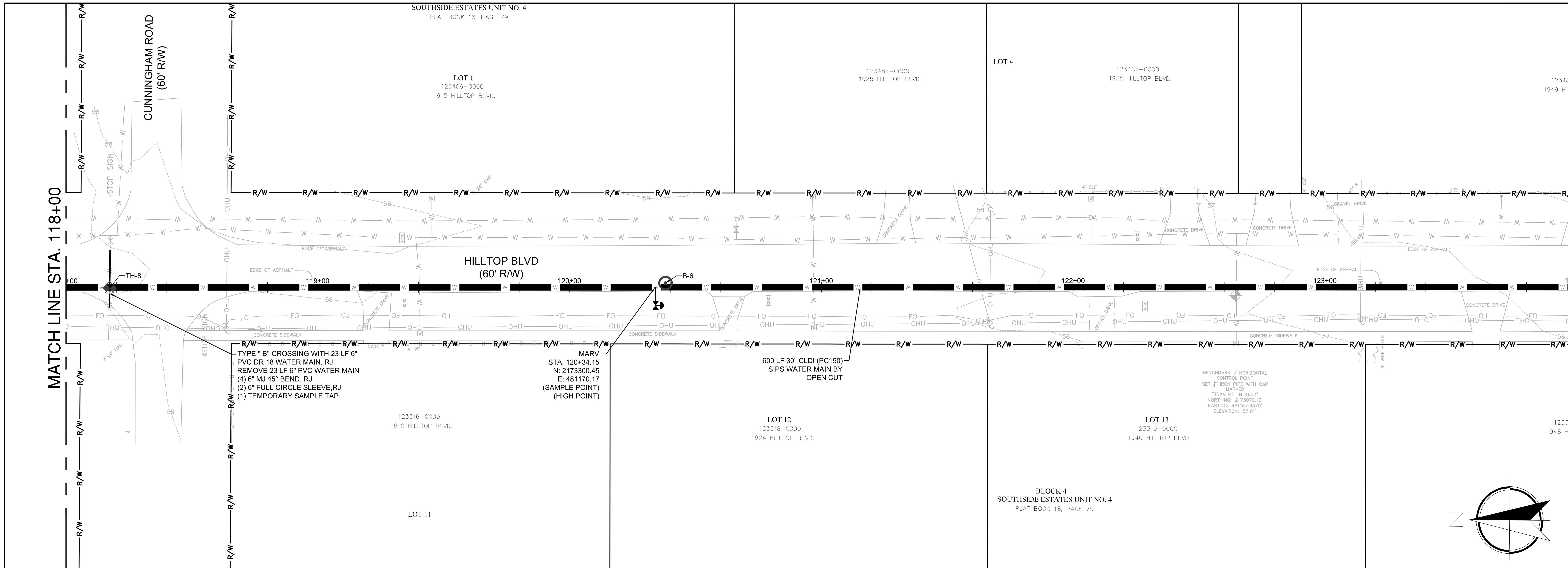
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 112+00 TO 118+00

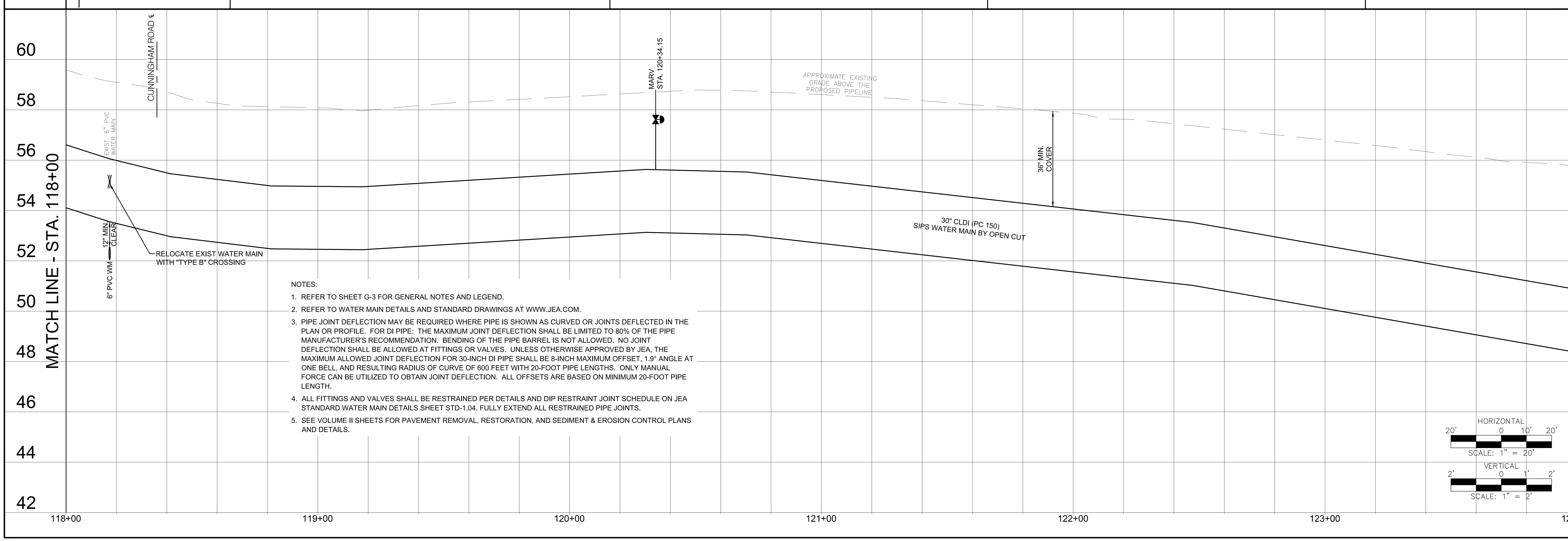
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 7
DRAWING NO. C-1.03





NOTES:

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2. REFER TO WATER MAIN DETAILS AND STANDARD DRAWINGS AT WWW.JEA.COM.
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4. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
5. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

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COA # 2822

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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO.
58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community

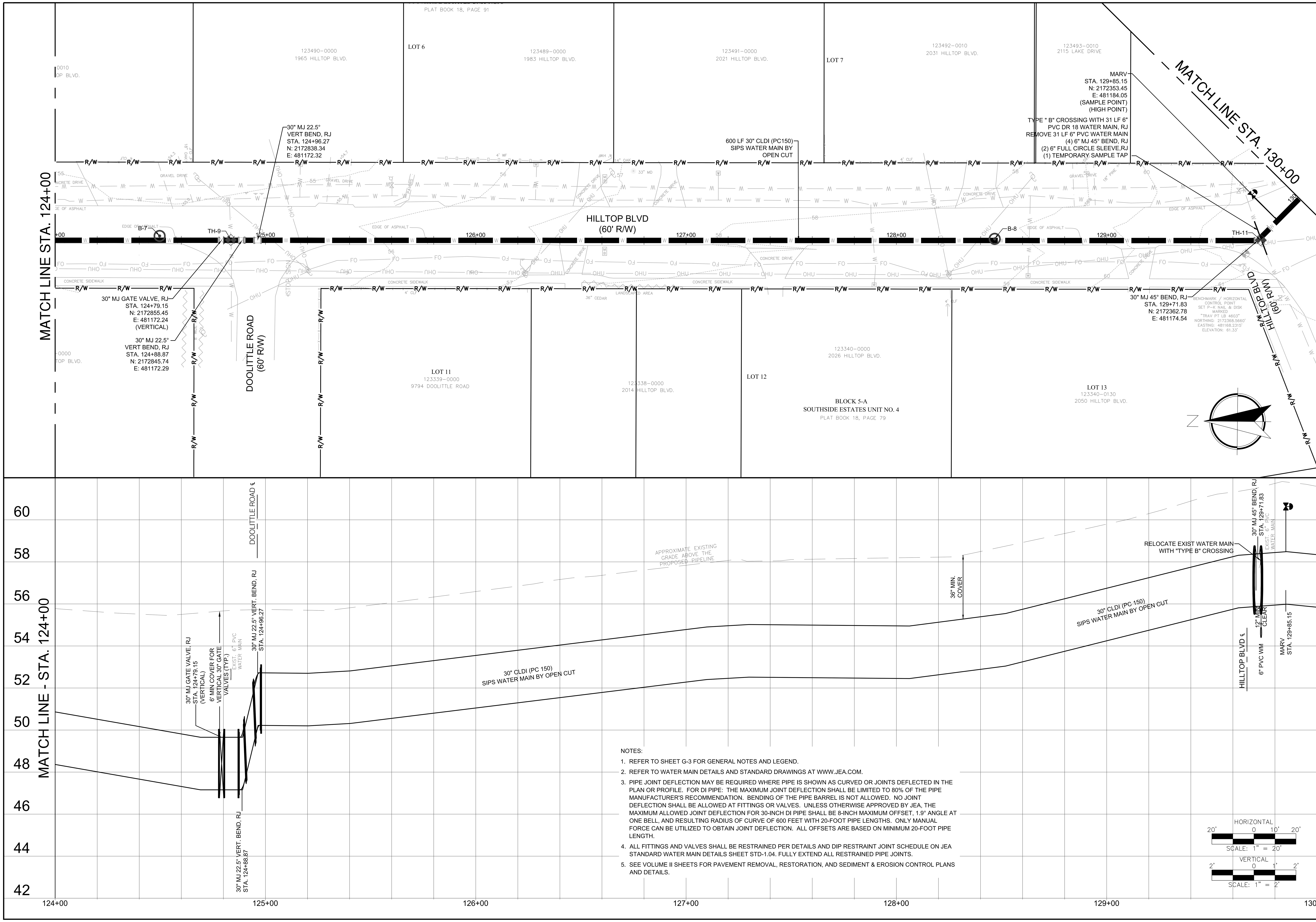
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 118+00 TO 124+00

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 8
DRAWING NO. C-1.04

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887



NOTES:

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community

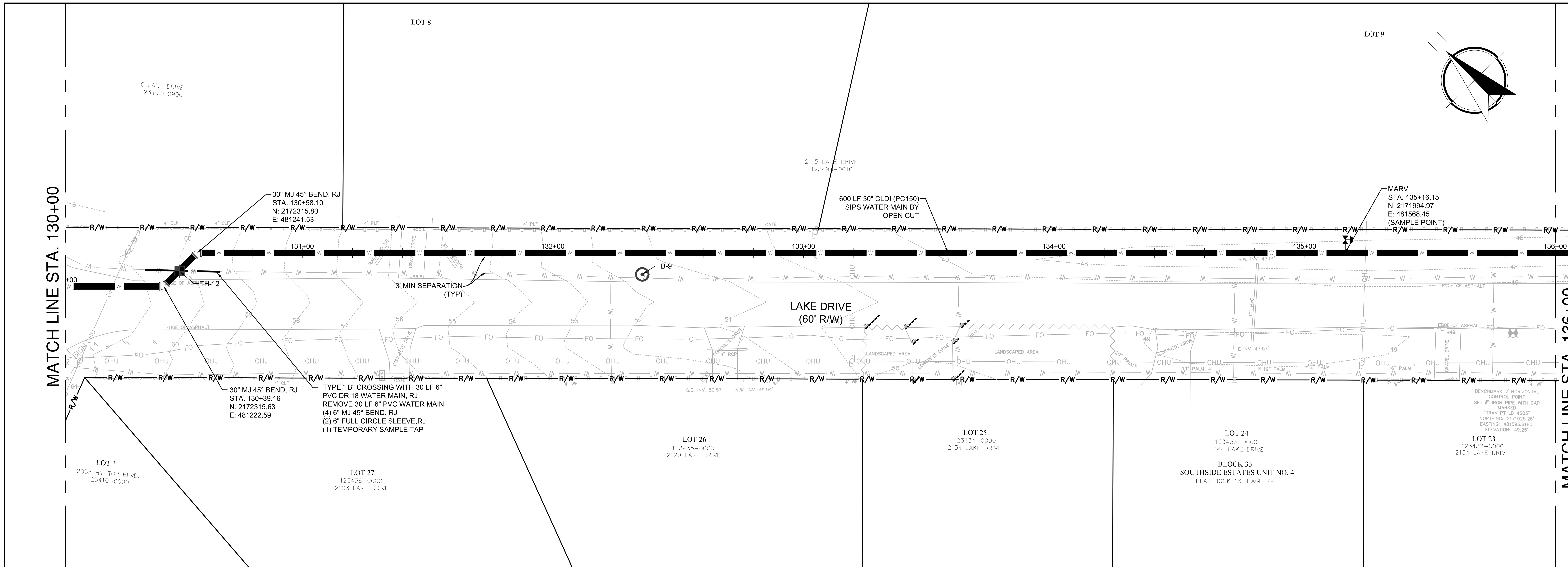
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 124+00 TO 130+00

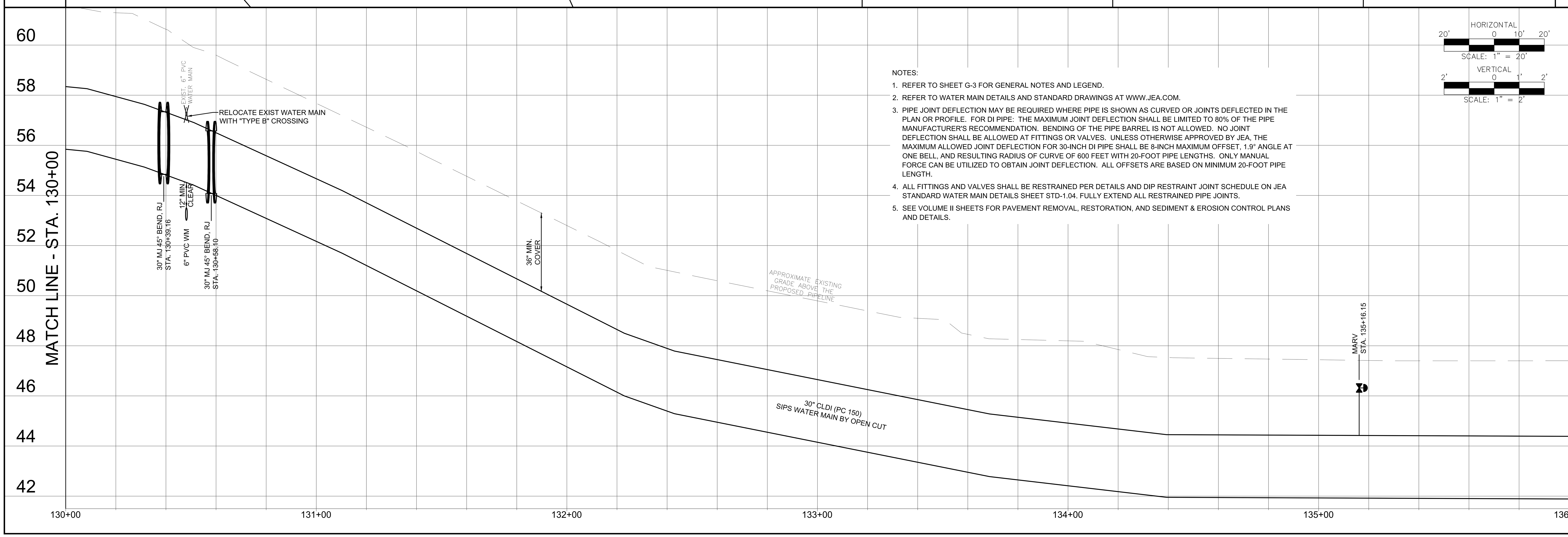
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS 89
SHEET NO. 9
DRAWING NO. C-1.05





NOTES:

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4. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
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COA # 2822

REVISIONS

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDU
DATE: MAY 2021

JEA Building Community

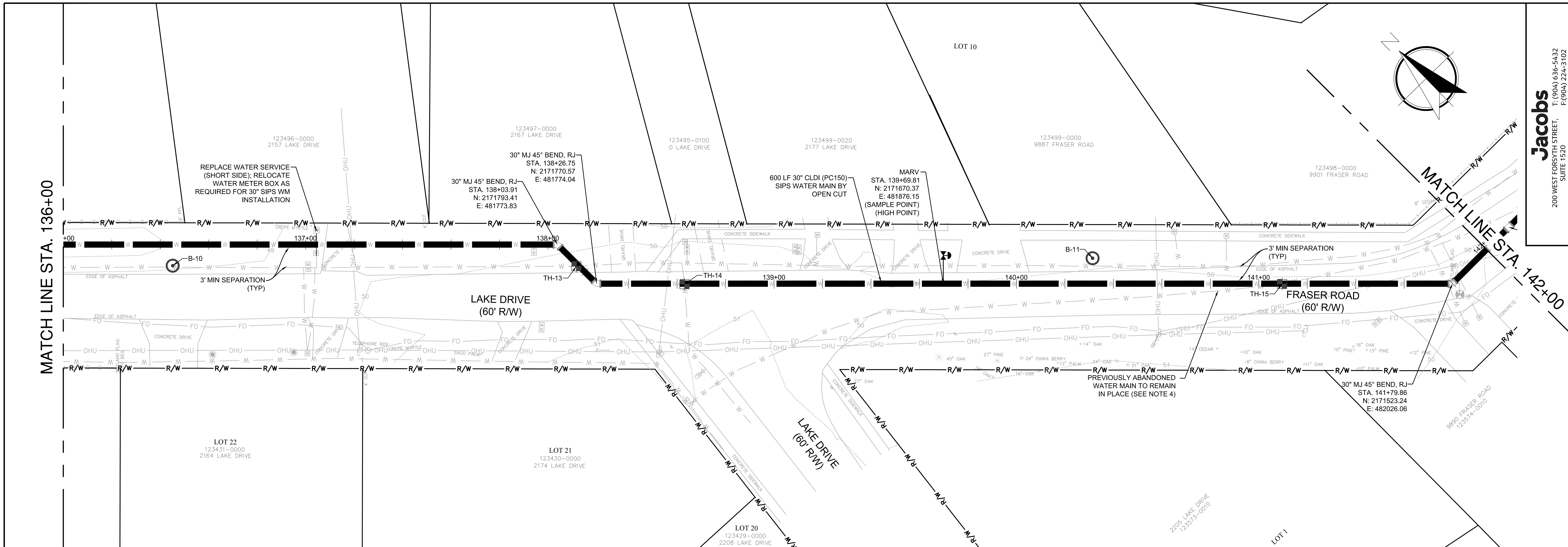
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 130+00 TO 136+00

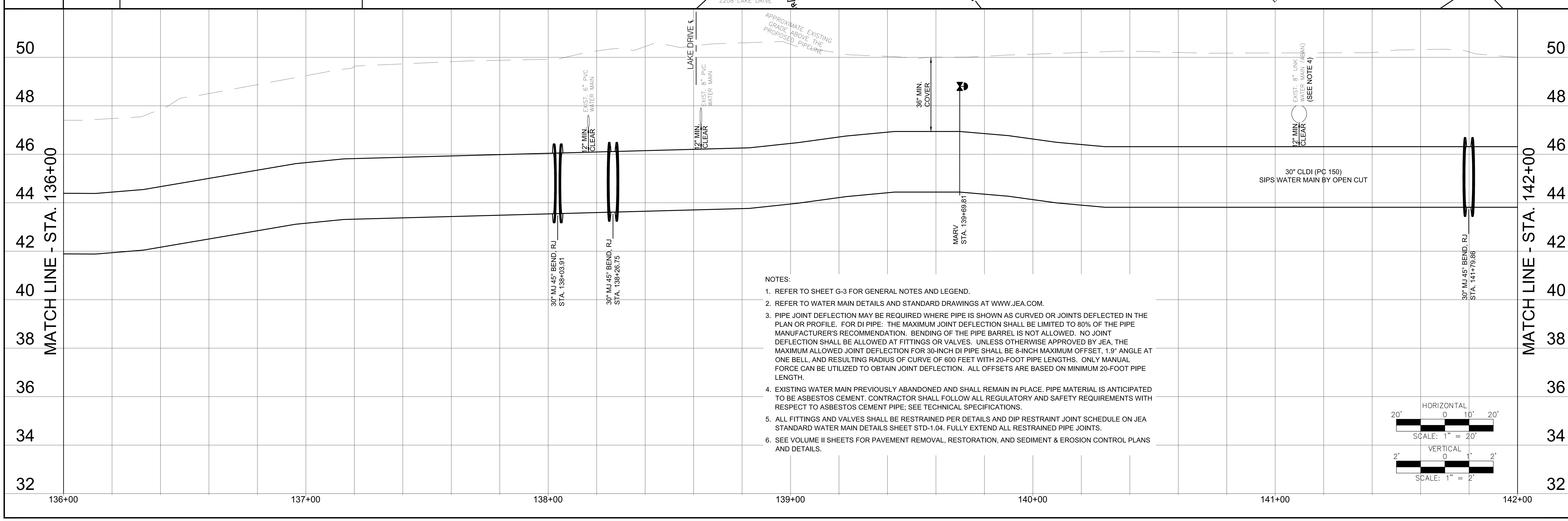
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 10
DRAWING NO. C-1.06

Thu May 27, 2021 - 23:43
Current Layout Tab = 30IN SIPS WM PLAN & PROFILE 130+00 TO STA 136+00





NOTES:

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4. EXISTING WATER MAIN PREVIOUSLY ABANDONED AND SHALL REMAIN IN PLACE. PIPE MATERIAL IS ANTICIPATED TO BE ASBESTOS CEMENT. CONTRACTOR SHALL FOLLOW ALL REGULATORY AND SAFETY REQUIREMENTS WITH RESPECT TO ASBESTOS CEMENT PIPE; SEE TECHNICAL SPECIFICATIONS.
5. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
6. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

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COA # 2822

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSELBG	DRAWN BY:	DDH/WBG
DATE:	MAY 2021	CHECKED BY:	CDJ
DATE:	MAY 2021		

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 136+00 TO 142+00

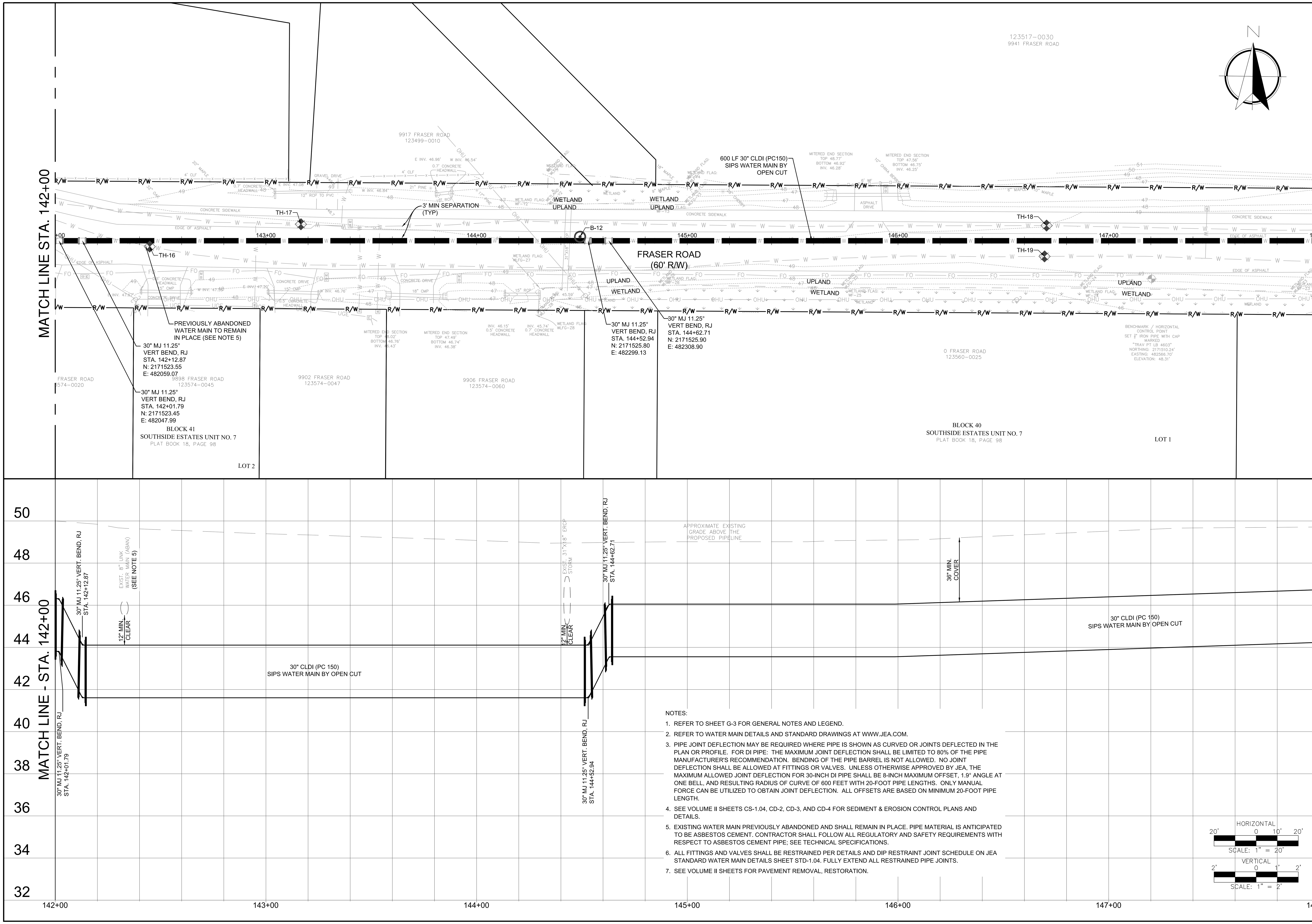
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 11
DRAWING NO. C-1.07

C:\pwworking\jacobs_b&i\hilldd\d0228455\P-D3254953-STA100-6to10.dwg Current Layout Tab = 30IN SIPS WM PLAN & PROFILE 136+00 TO STA 142+00 Thu May 27, 2021 - 23:44



NOTES:

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2. REFER TO WATER MAIN DETAILS AND STANDARD DRAWINGS AT WWW.JEA.COM.
3. PIPE JOINT DEFLECTION MAY BE REQUIRED WHERE PIPE IS SHOWN AS CURVED OR JOINTS DEFLECTED IN THE PLAN OR PROFILE. FOR DI PIPE: THE MAXIMUM JOINT DEFLECTION SHALL BE LIMITED TO 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION. BENDING OF THE PIPE BARREL IS NOT ALLOWED. NO JOINT DEFLECTION SHALL BE ALLOWED AT FITTINGS OR VALVES. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ALLOWED JOINT DEFLECTION FOR 30-INCH DI PIPE SHALL BE 8-INCH MAXIMUM OFFSET, 1.9° ANGLE AT ONE BELL, AND RESULTING RADIUS OF CURVE OF 600 FEET WITH 20-FOOT PIPE LENGTHS. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20-FOOT PIPE LENGTH.
4. SEE VOLUME II SHEETS CS-1.04, CD-2, CD-3, AND CD-4 FOR SEDIMENT & EROSION CONTROL PLANS AND DETAILS.
5. EXISTING WATER MAIN PREVIOUSLY ABANDONED AND SHALL REMAIN IN PLACE. PIPE MATERIAL IS ANTICIPATED TO BE ASBESTOS CEMENT. CONTRACTOR SHALL FOLLOW ALL REGULATORY AND SAFETY REQUIREMENTS WITH RESPECT TO ASBESTOS CEMENT PIPE; SEE TECHNICAL SPECIFICATIONS.
6. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
7. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION.

Jacobs
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COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

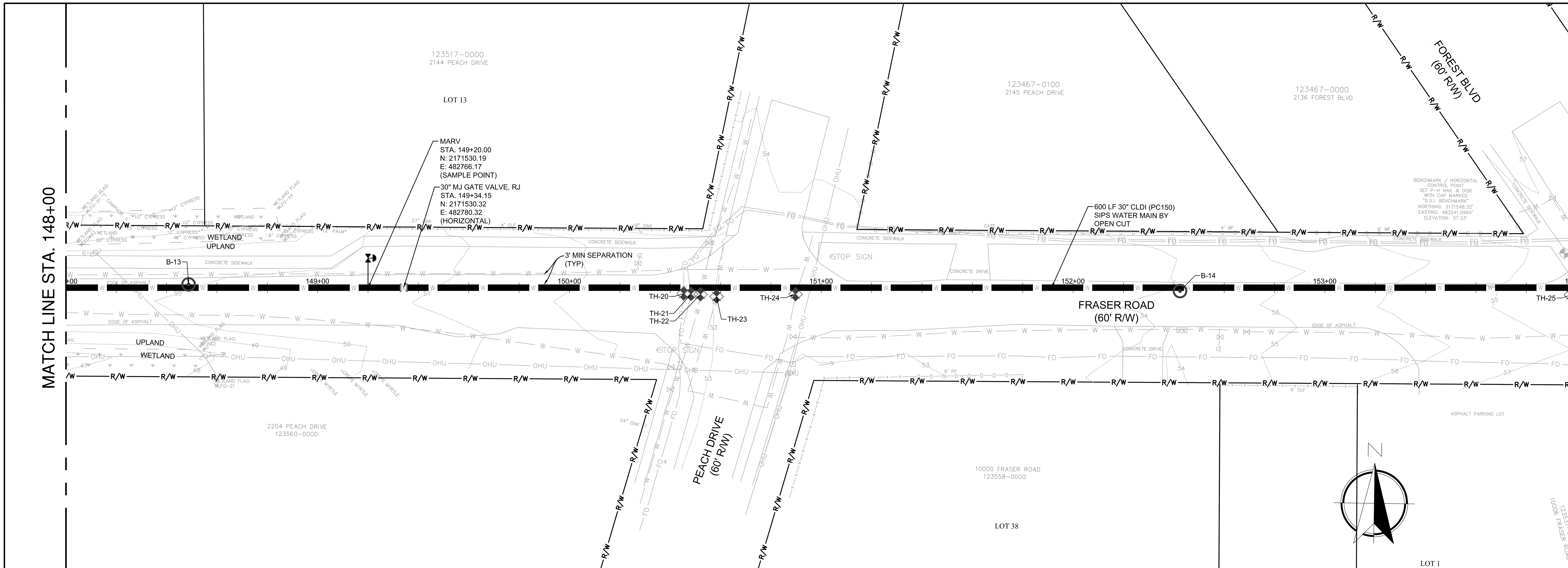
JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 142+00 TO 148+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN
NO. SHEETS 89
SHEET NO. 12
DRAWING NO. C-1.08



NOTES:

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4. SEE VOLUME II SHEETS CS-1.05, CD-2, CD-3, AND CD-4 FOR SEDIMENT & EROSION CONTROL PLANS AND DETAILS.
5. EXISTING WATER MAIN PREVIOUSLY ABANDONED AND SHALL REMAIN IN PLACE. PIPE MATERIAL IS ANTICIPATED TO BE ASBESTOS CEMENT. CONTRACTOR SHALL FOLLOW ALL REGULATORY AND SAFETY REQUIREMENTS WITH RESPECT TO ASBESTOS CEMENT PIPE; SEE TECHNICAL SPECIFICATIONS.
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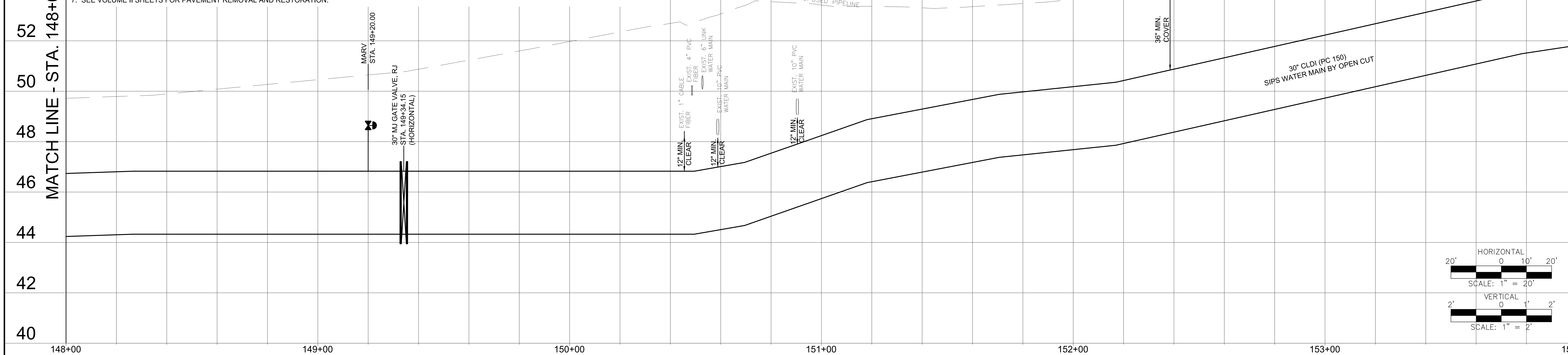

Jacobs
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COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO.
58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

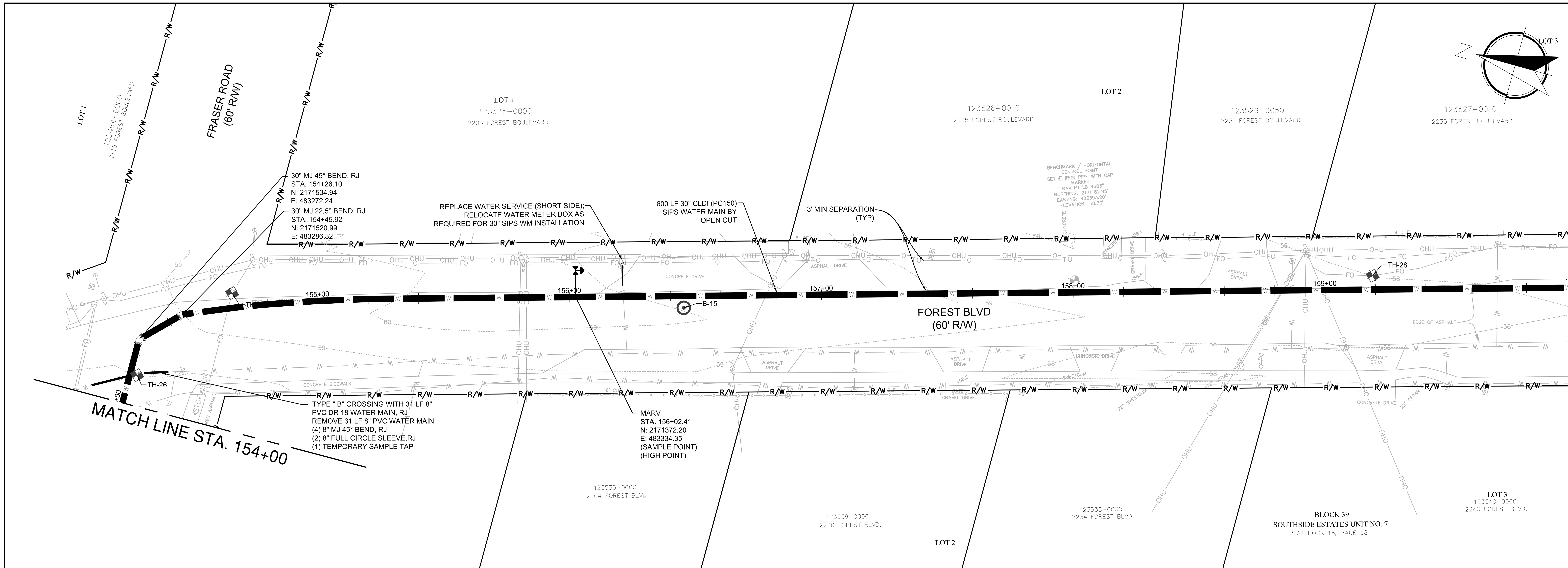
JEA
Building Community

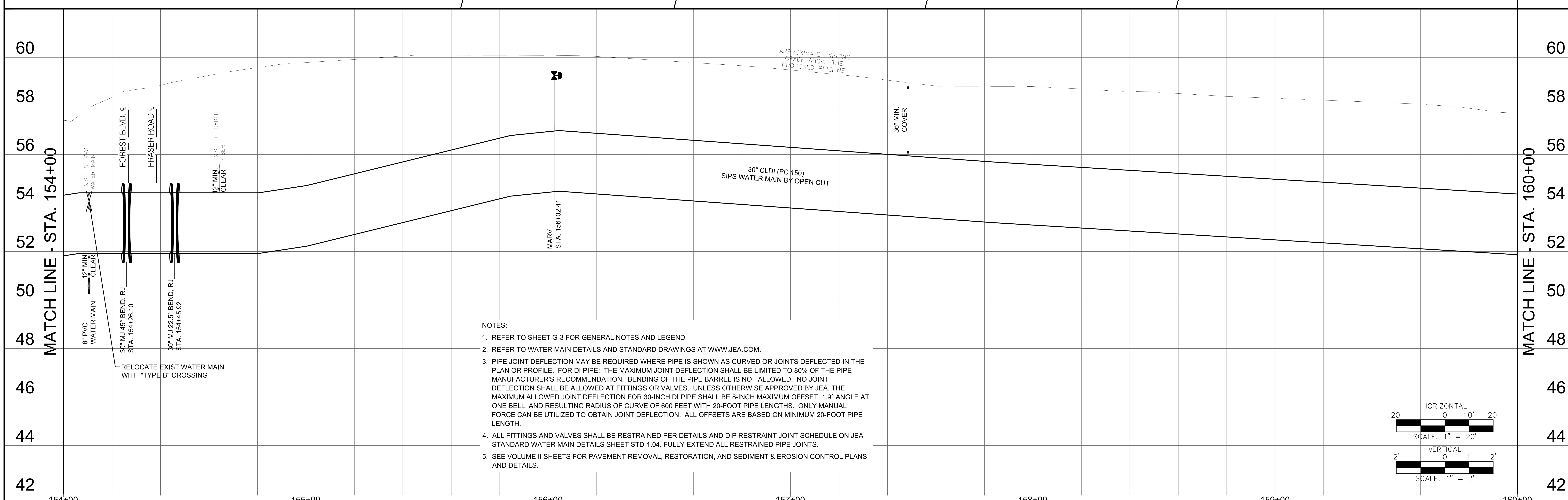
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 148+00 TO 154+00

NO. SHEETS	89
SHEET NO.	13
DRAWING NO.	C-1.09
PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887





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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 154+00 TO 160+00

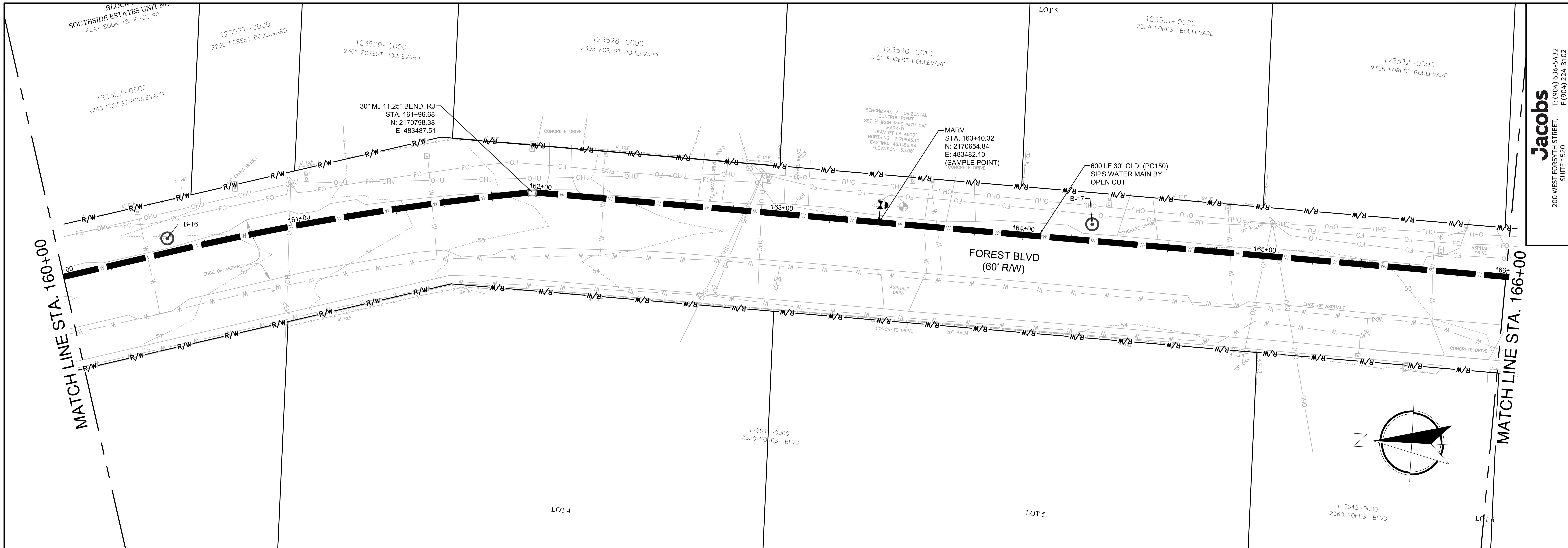
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

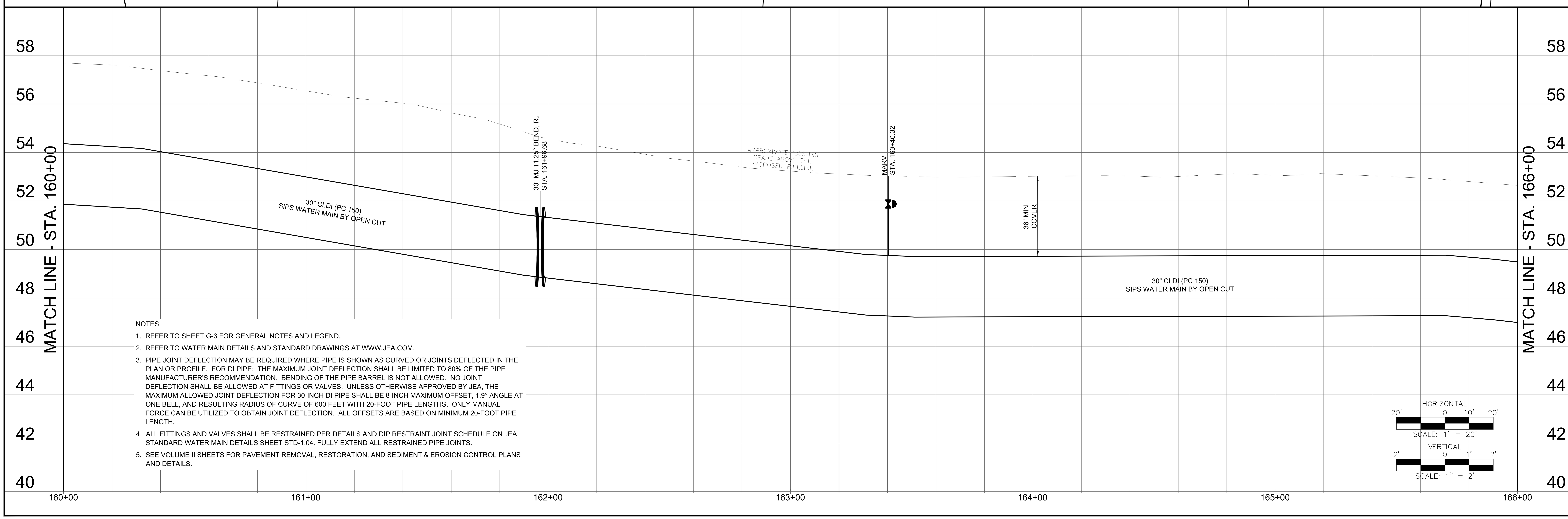
JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 14
DRAWING NO. C-1.10

C:\pwworking\jacobs_b&i\hillda\d0228455\P-D3254953-STA100-6to10.dwg Current Layout Tab = 30IN SIPS WM PLAN & PROFILE 154+00 TO STA 160+00 Thu May 27, 2021 - 23:46





NOTES:

1. REFER TO SHEET G-3 FOR GENERAL NOTES AND LEGEND.
2. REFER TO WATER MAIN DETAILS AND STANDARD DRAWINGS AT WWW.JEA.COM.
3. PIPE JOINT DEFLECTION MAY BE REQUIRED WHERE PIPE IS SHOWN AS CURVED OR JOINTS DEFLECTED IN THE PLAN OR PROFILE. FOR DI PIPE: THE MAXIMUM JOINT DEFLECTION SHALL BE LIMITED TO 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION. BENDING OF THE PIPE BARREL IS NOT ALLOWED. NO JOINT DEFLECTION SHALL BE ALLOWED AT FITTINGS OR VALVES. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ALLOWED JOINT DEFLECTION FOR 30-INCH DI PIPE SHALL BE 8-INCH MAXIMUM OFFSET, 1.9° ANGLE AT ONE BELL, AND RESULTING RADIUS OF CURVE OF 600 FEET WITH 20-FOOT PIPE LENGTHS. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20-FOOT PIPE LENGTH.
4. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
5. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

Jacobs
200 WEST FORSYTH STREET, SUITE 1520
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COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 160+00 TO 166+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO.: D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 15
DRAWING NO. C-1.11

Thu May 27, 2021 - 23:47

Current Layout Tab = 30IN SIPS WM PLAN & PROFILE STA 160+00 TO 166+00

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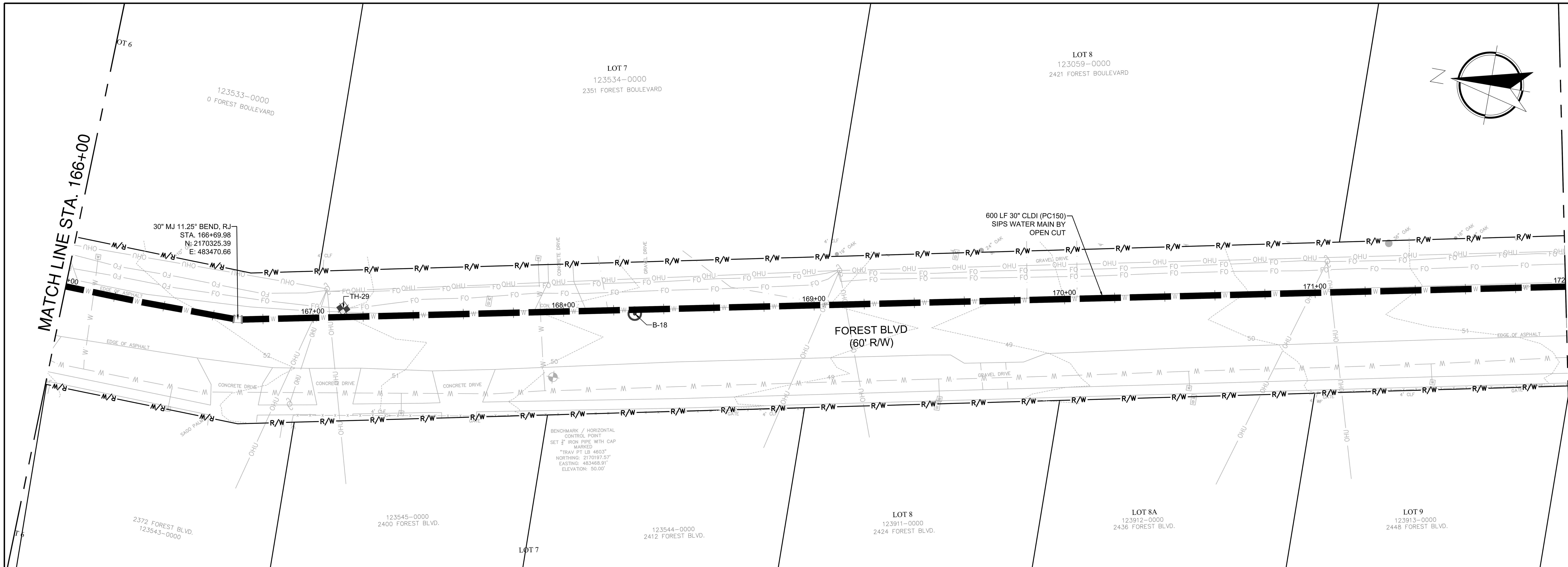

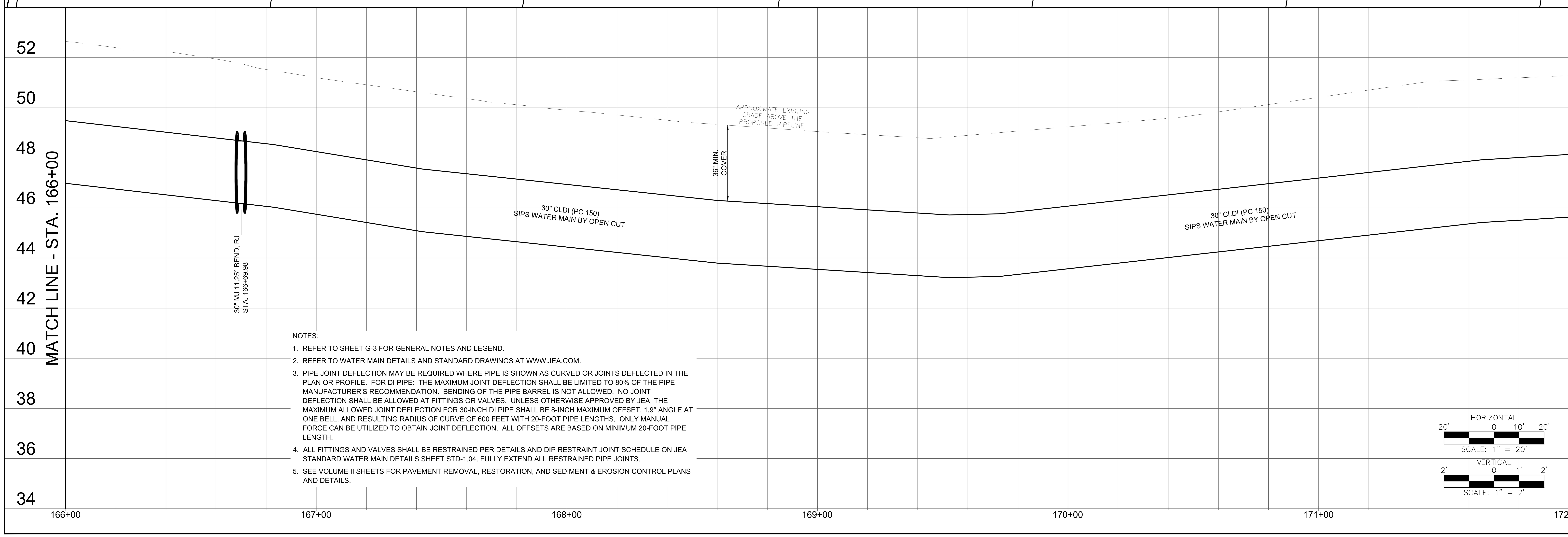

NOTES:

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4. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
5. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

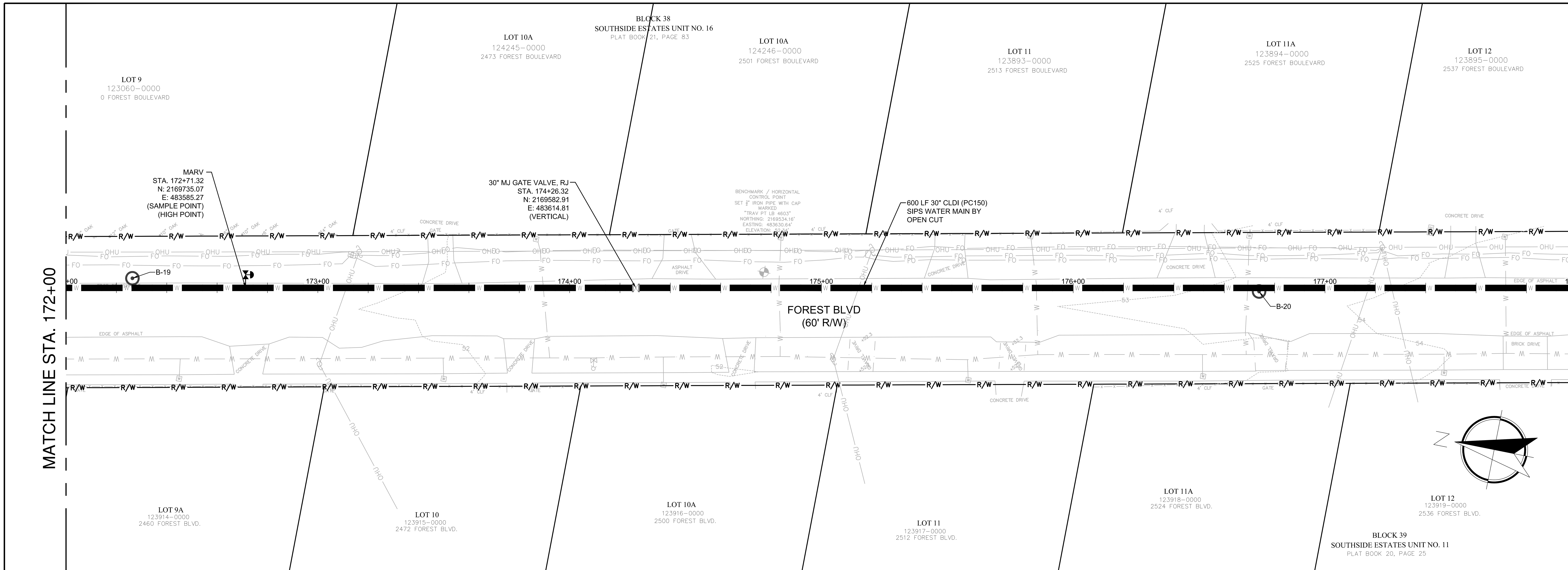
JEA Building Community

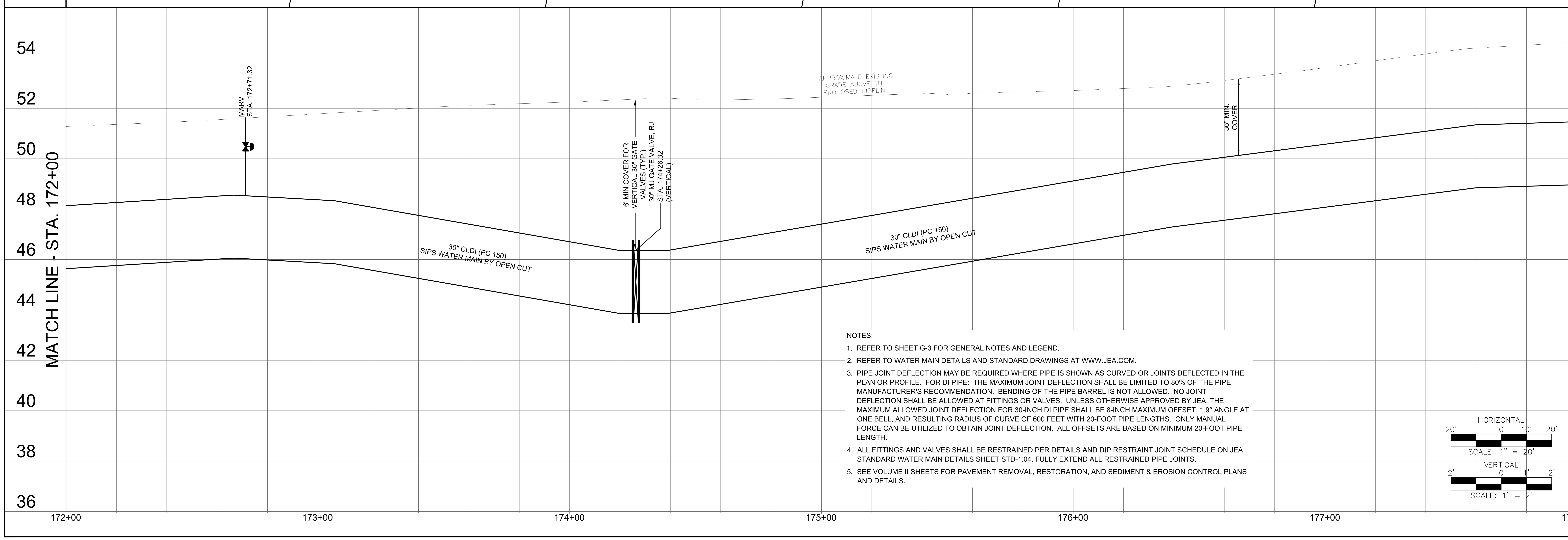
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 166+00 TO 172+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN
NO. SHEETS	89
SHEET NO.	16
DRAWING NO.	C-1.12





NOTES:

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4. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
5. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

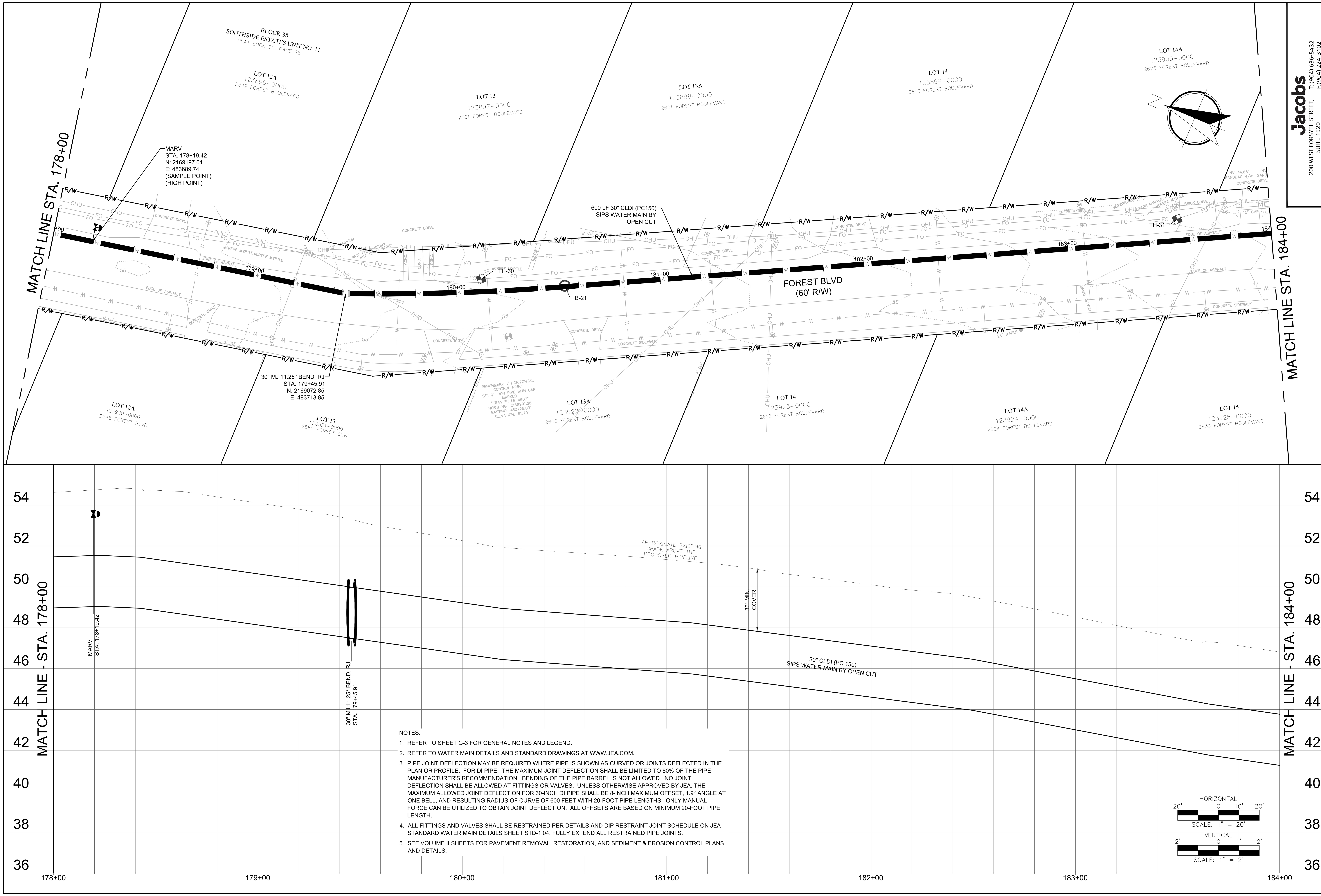
JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 172+00 TO 178+00

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 17
DRAWING NO. C-1.13

JEA PROJ NO.: 8004887
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP



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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/JBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 178+00 TO 184+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 18
DRAWING NO. C-1.14

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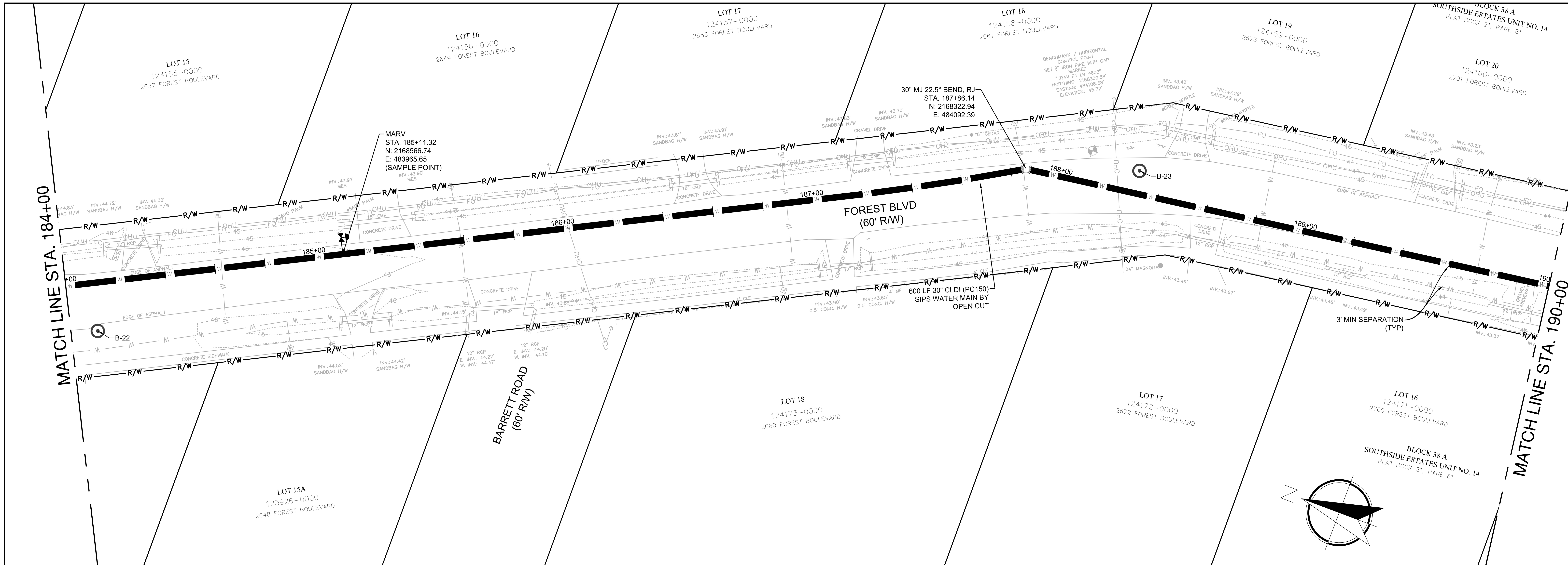

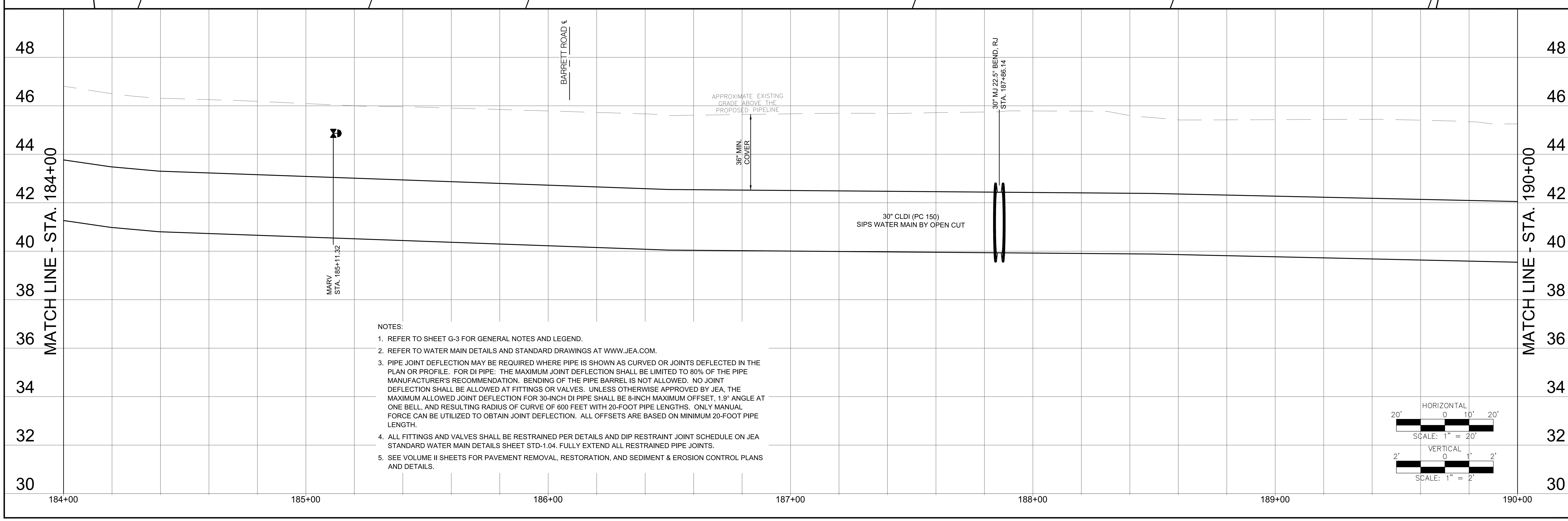

NOTES:

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5. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDU
DATE: MAY 2021

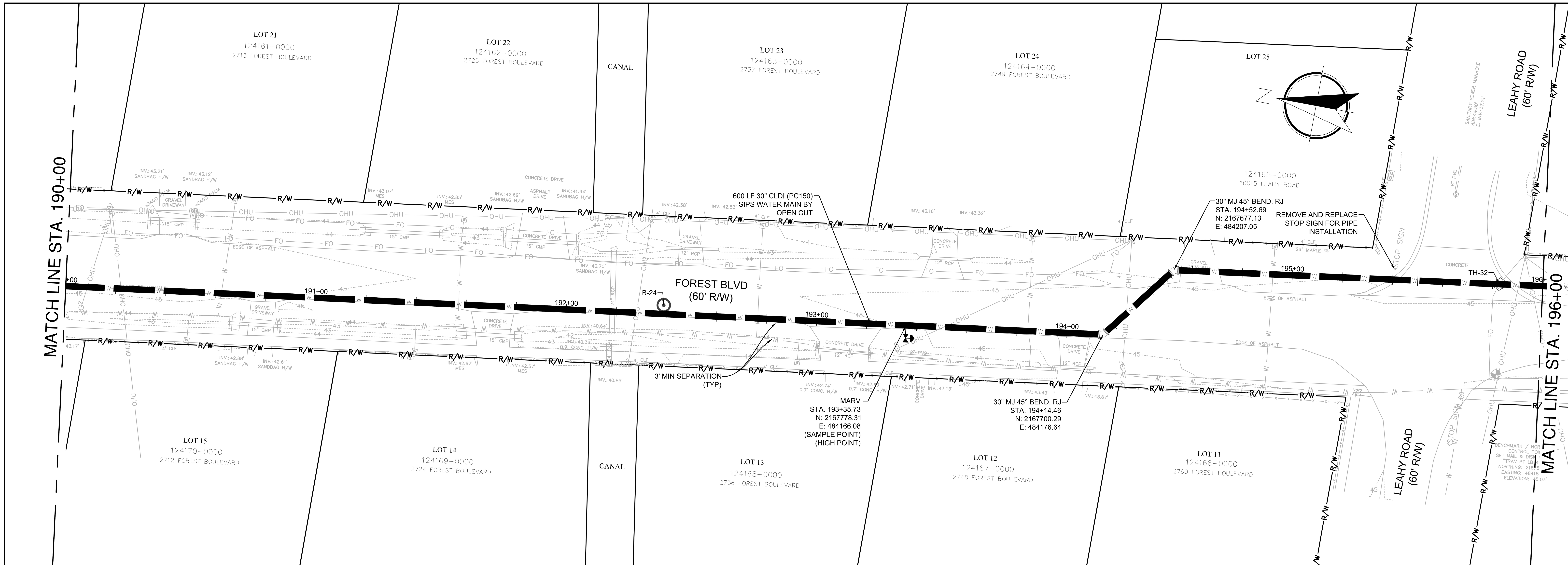
JEA Building Community

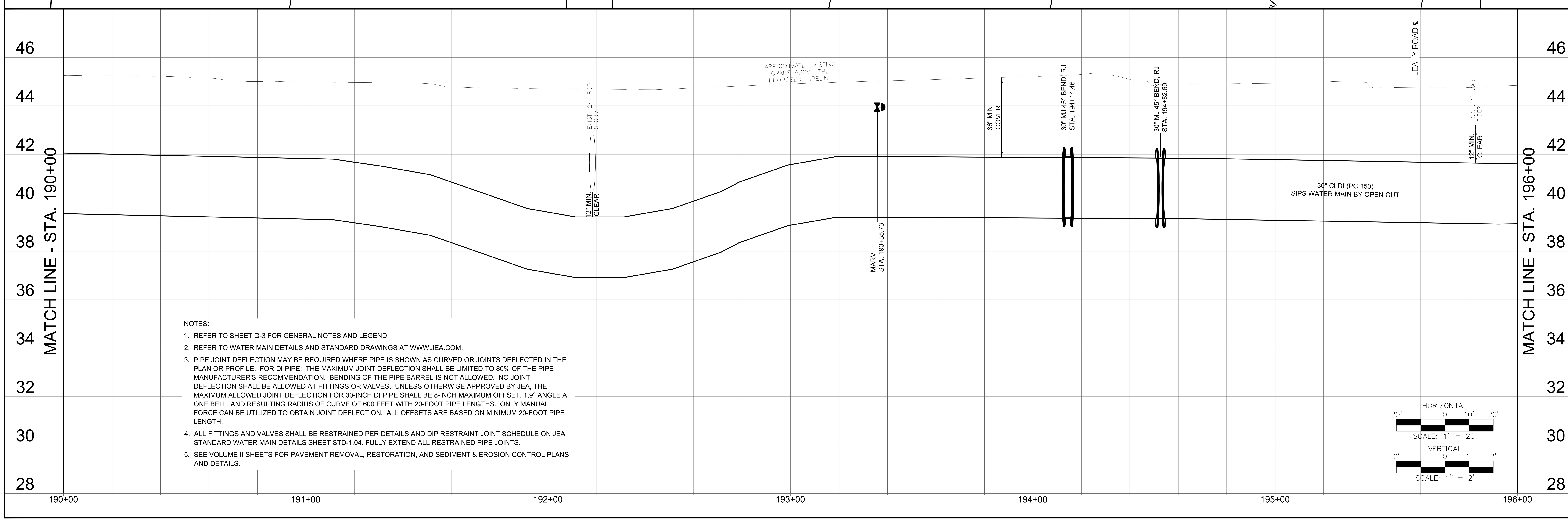
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 184+00 TO 190+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN
NO. SHEETS 89
SHEET NO. 19
DRAWING NO. C-1.15





NOTES:

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4. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
5. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/BG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 190+00 TO 196+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 20
DRAWING NO. C-1.16

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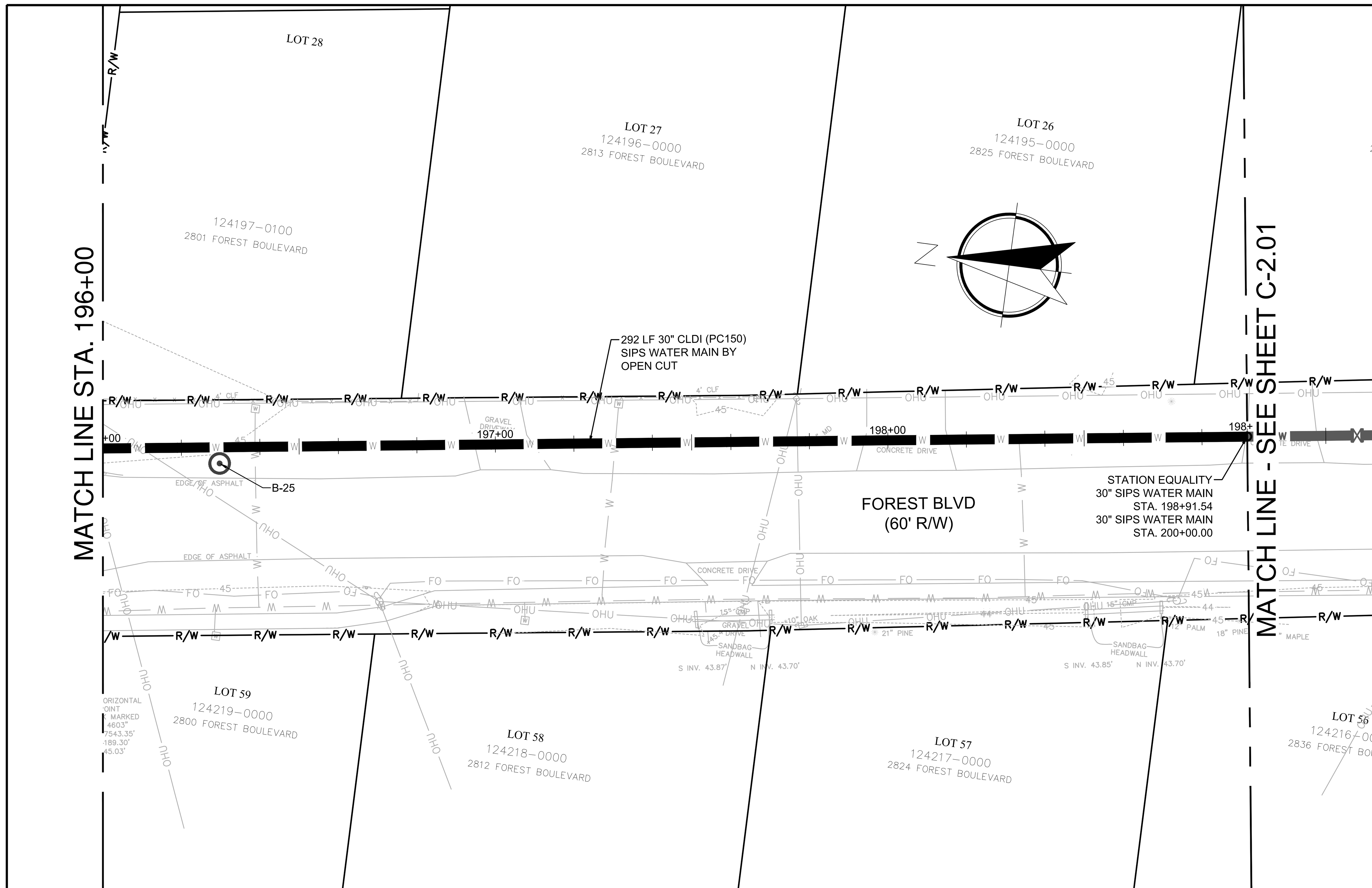

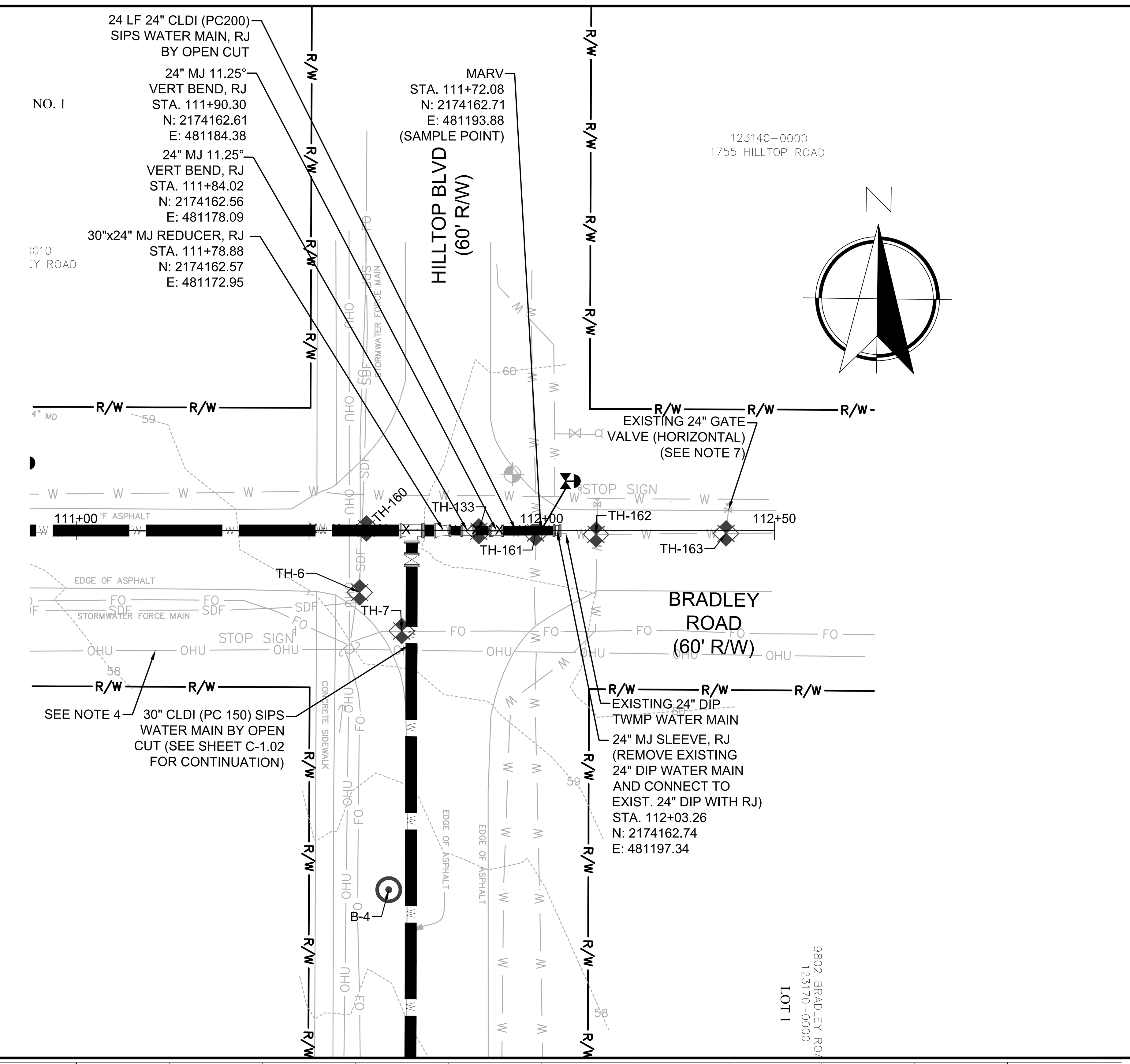

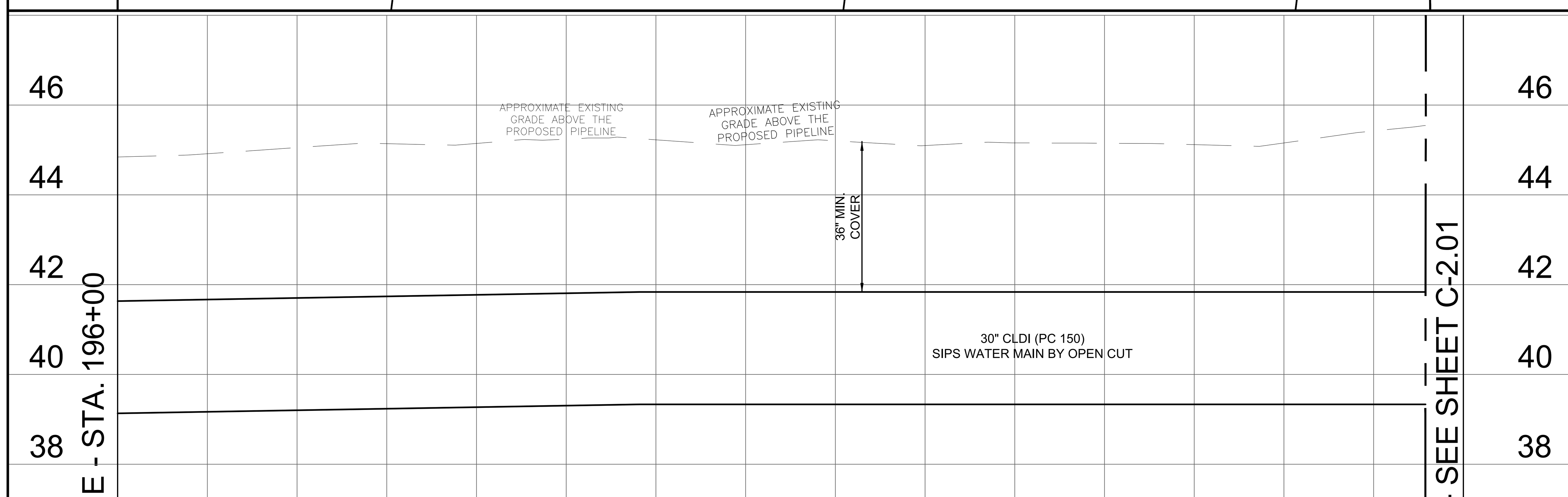

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4. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
5. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

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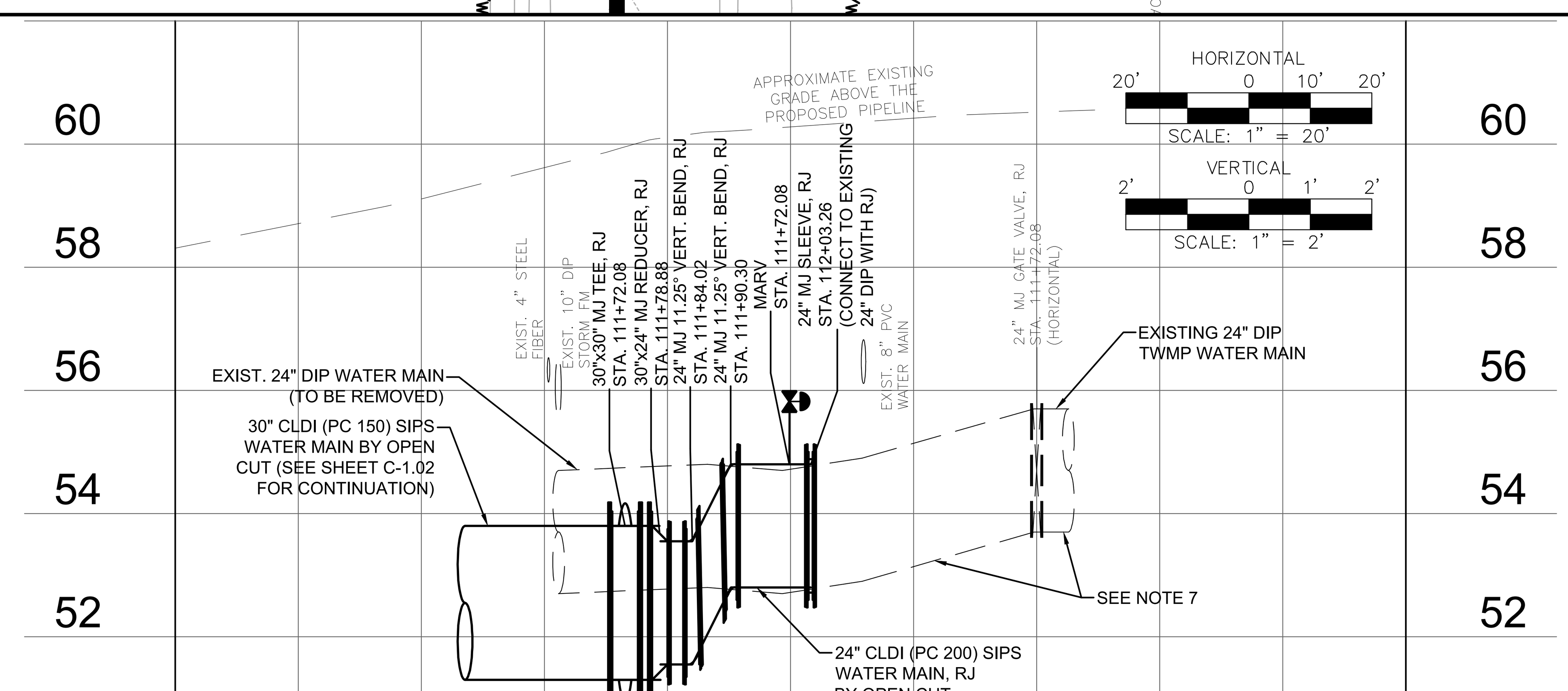
SCALE: 1" = 20'
VERTICAL
2' 0 1' 2'
SCALE: 1" = 2'



HORIZONTAL
20' 0 10' 20'
SCALE: 1" = 20'
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2' 0 1' 2'
SCALE: 1" = 2'

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4. ALL EQUIPMENT AND CONSTRUCTION ACTIVITIES SHALL BE KEPT OUTSIDE A MINIMUM TWENTY FEET (20') FROM ALL ENERGIZED TRANSMISSION WIRES/CONDUCTORS (VERTICALLY OR HORIZONTALLY) AND TWENTY FEET (20') HORIZONTALLY FROM ALL TRANSMISSION STRUCTURES. SEE ADDITIONAL JEA T-LINE REQUIREMENTS IN THE GENERAL NOTES ON SHEET G-3 AND TECHNICAL SPECIFICATIONS.
5. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
6. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.
7. A MINIMUM OF 118 FT OF RESTRAINT IS REQUIRED ON THE EXISTING 24" DIP WATER MAIN EAST OF THE EXISTING 24" VALVE. RESTRAINT IS REQUIRED ON THE EXISTING 24" DIP WATER MAIN BETWEEN THE EXISTING 24" DIP WATER MAIN BETWEEN THE EXISTING 24" VALVE AND THE PROPOSED SLEEVE CONNECTION TO THE WEST. CONTRACTOR SHALL FILED VERIFY THE EXISTING PIPE SIZE, MATERIAL, DEPTH, PIPE JOINT LOCATIONS, AND PIPE JOINT RESTRAINT PRIOR TO ORDERING MATERIALS AND 24" CONNECTION. IT IS ANTICIPATED EXISTING PIPE JOINTS ARE RESTRAINED DUE TO THE EXISTING 24" VALVE, HOWEVER, IF EXISTING PIPE JOINTS ARE FOUND UNRESTRAINED, 24" SPLIT RING BELL RESTRAINTS SHALL BE PROVIDED IN ACCORDANCE WITH JEA STANDARDS (PRESSURE RATING SHALL BE EQUAL TO THE DIP PRESSURE CLASS RATING OR A MINIMUM OF 200 PSI).

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 196+00 TO C-2.01

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 21
DRAWING NO. C-1.17

Thu May 27, 2021 - 23:53

Current Layout Tab = 30IN SIPS WM PLAN & PROFILE STA 196+00 TO C-2.01

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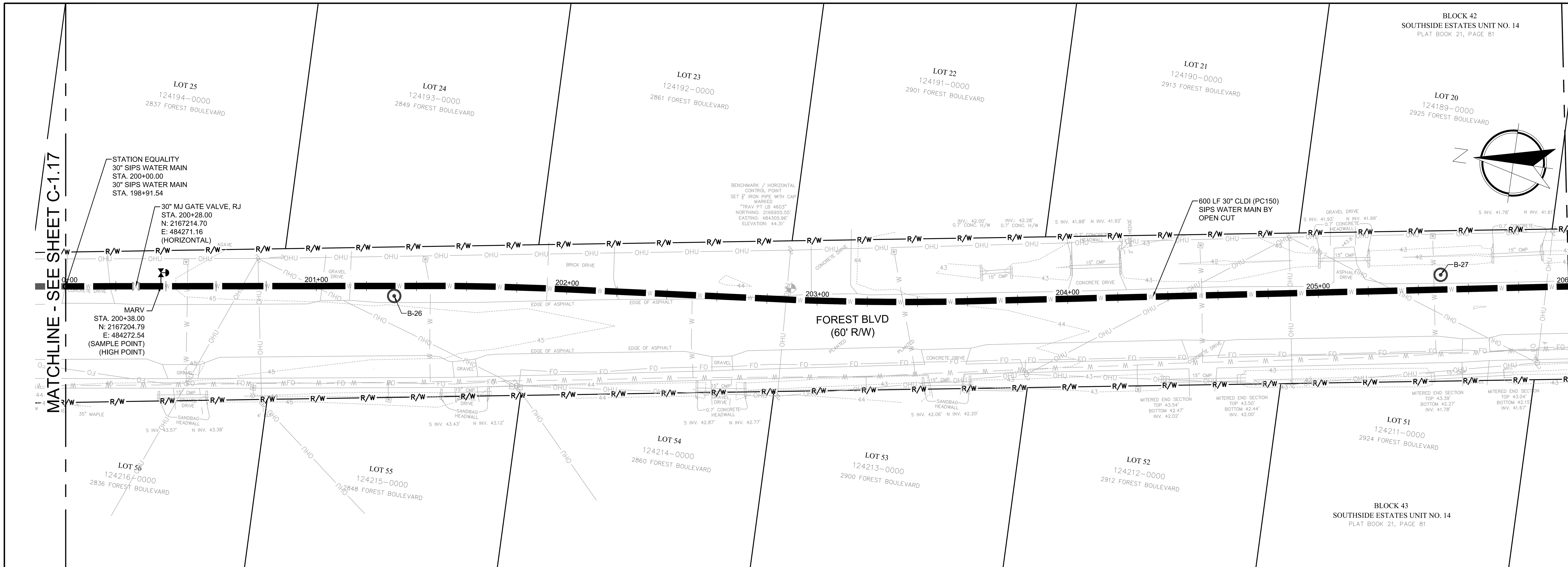

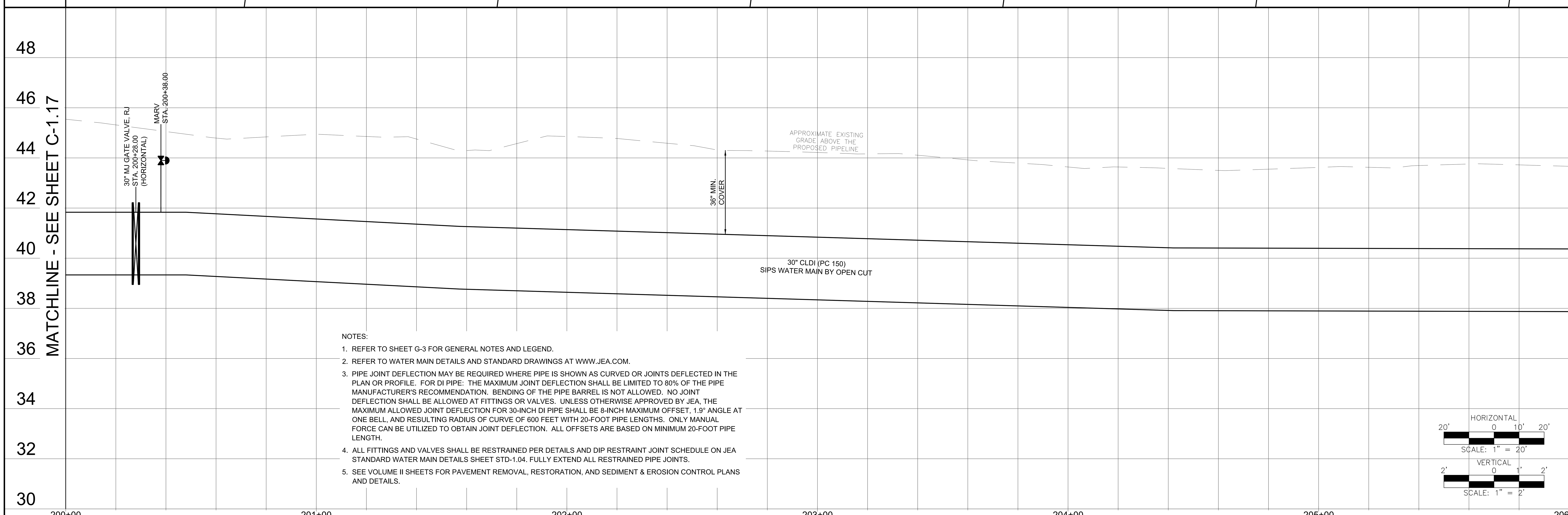

NOTES:

1. REFER TO SHEET G-3 FOR GENERAL NOTES AND LEGEND.
2. REFER TO WATER MAIN DETAILS AND STANDARD DRAWINGS AT WWW.JEA.COM.
3. PIPE JOINT DEFLECTION MAY BE REQUIRED WHERE PIPE IS SHOWN AS CURVED OR JOINTS DEFLECTED IN THE PLAN OR PROFILE. FOR DI PIPE: THE MAXIMUM JOINT DEFLECTION SHALL BE LIMITED TO 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION. BENDING OF THE PIPE BARREL IS NOT ALLOWED. NO JOINT DEFLECTION SHALL BE ALLOWED AT FITTINGS OR VALVES. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ALLOWED JOINT DEFLECTION FOR 30-INCH DI PIPE SHALL BE 8-INCH MAXIMUM OFFSET, 1.9° ANGLE AT ONE BELL, AND RESULTING RADIUS OF CURVE OF 600 FEET WITH 20-FOOT PIPE LENGTHS. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20-FOOT PIPE LENGTH.
4. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
5. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

Jacobs
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JACKSONVILLE, FL 32202
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F:(904) 224-3102
COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 200+00 TO 206+00

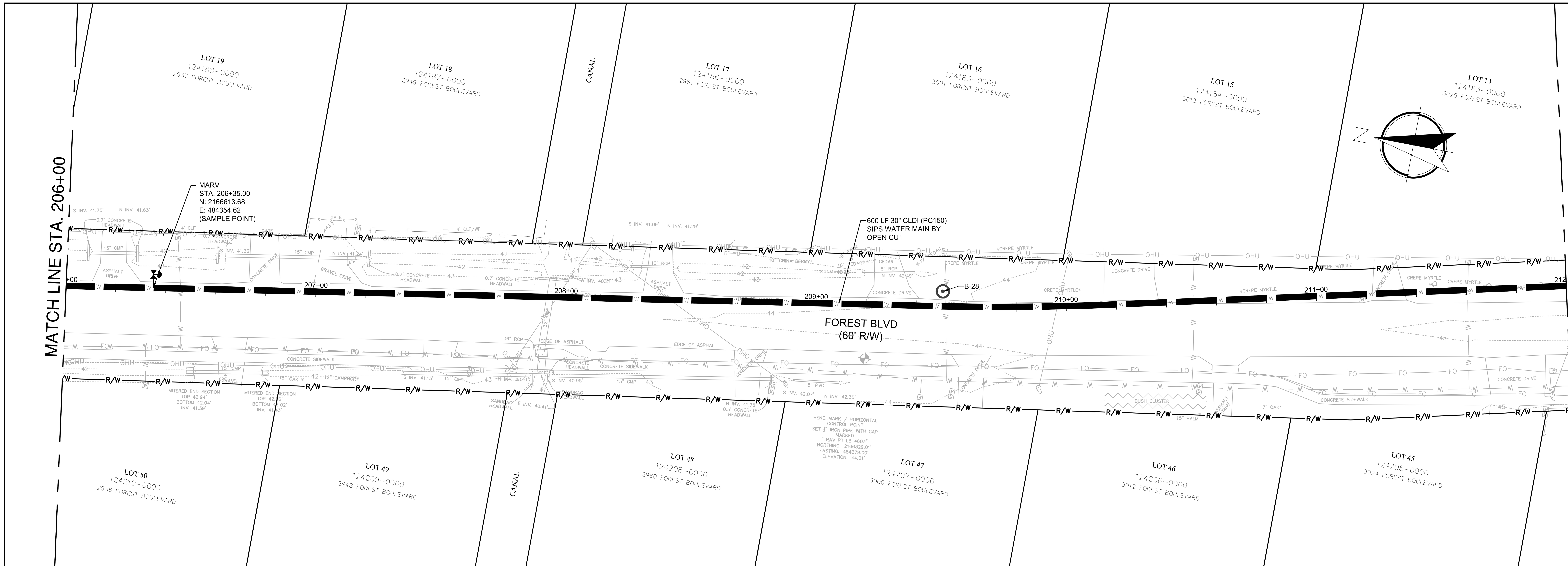
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

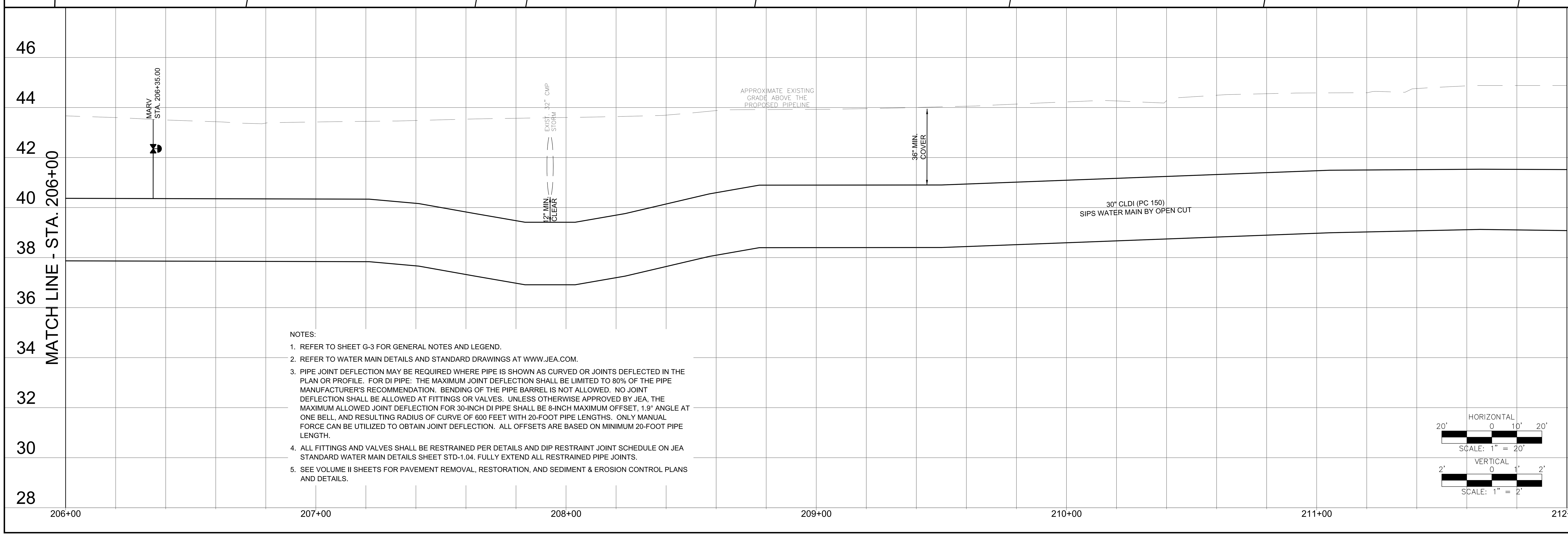
JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 22
DRAWING NO. C-2.01

C:\pwworking\jacobs_b&i\hilldd\d0228455\P-D32549S3-STA200-1toEnd.dwg Current Layout Tab = 30IN SIPS WM PLAN & PROFILE STA 200+00 TO 206+00 Thu May 27, 2021 - 23:55





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4. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
5. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO.
58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

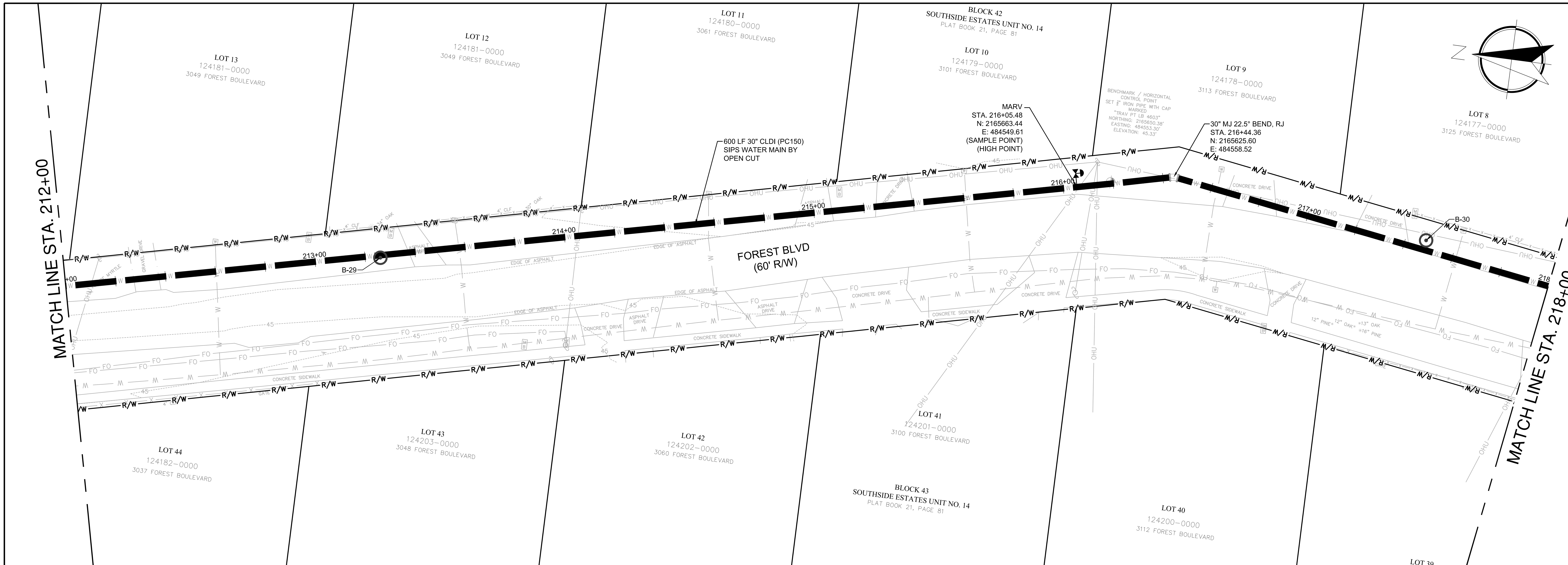
JEA Building Community

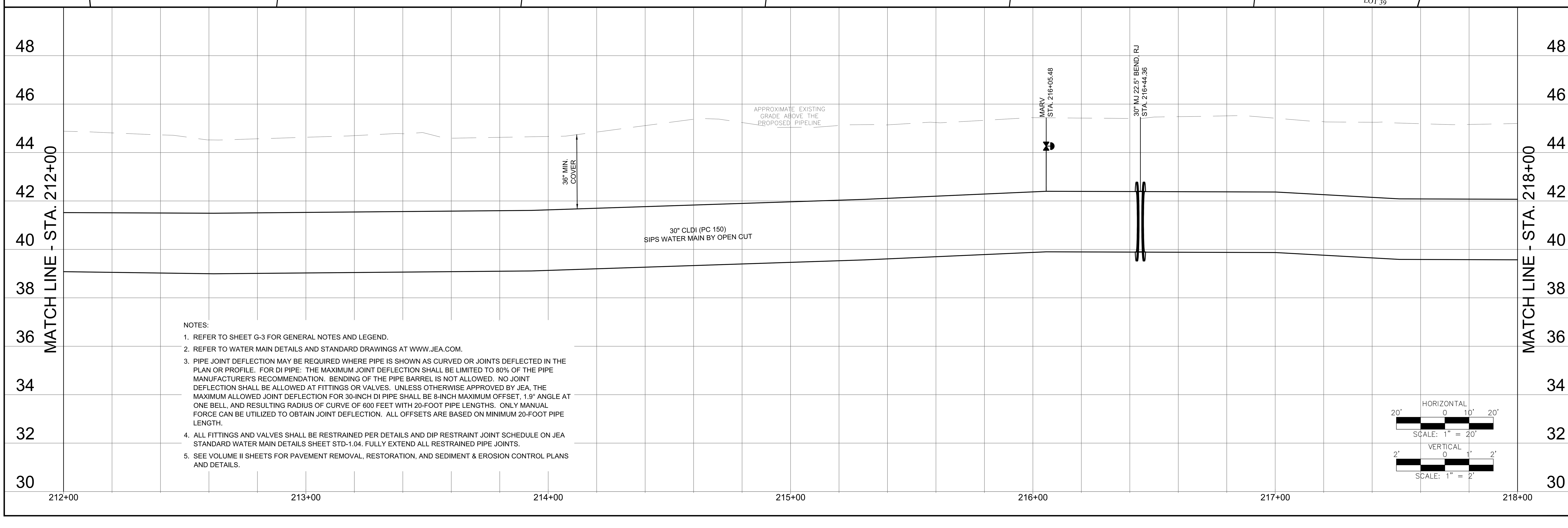
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 206+00 TO 212+00

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 23
DRAWING NO. C-2.02

JEA PROJ NO.: 8004887
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP





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4. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

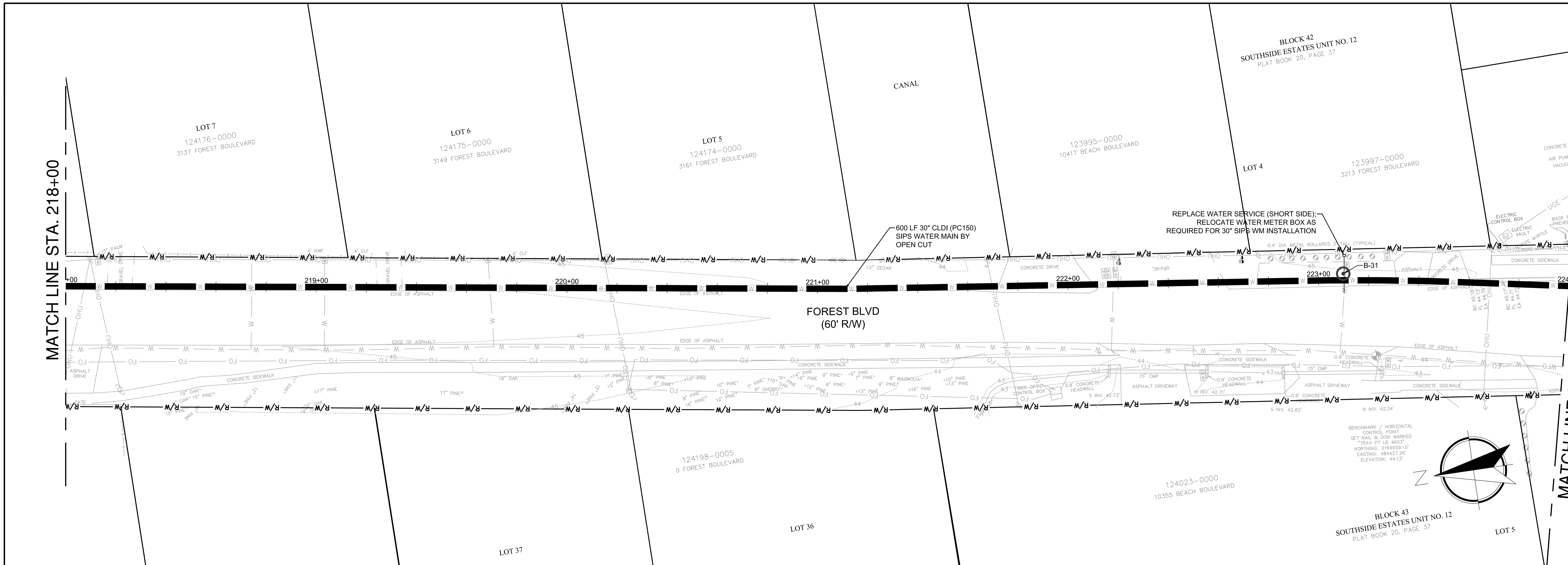
JEA Building Community

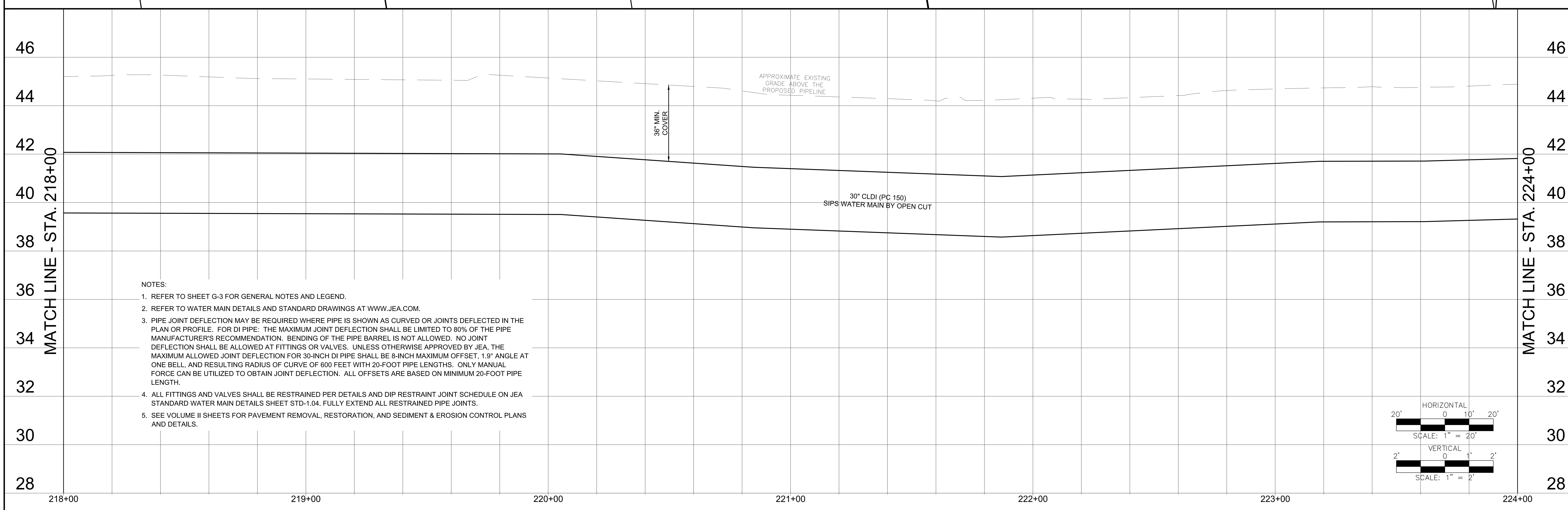
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 212+00 TO 218+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
JEA PROJ NO.: 8004887

PROJ. NO.	D3254953
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS 89
SHEET NO. 24
DRAWING NO. C-2.03





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4. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
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COA # 2822

REVISIONS

NO.	BY	DATE

DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

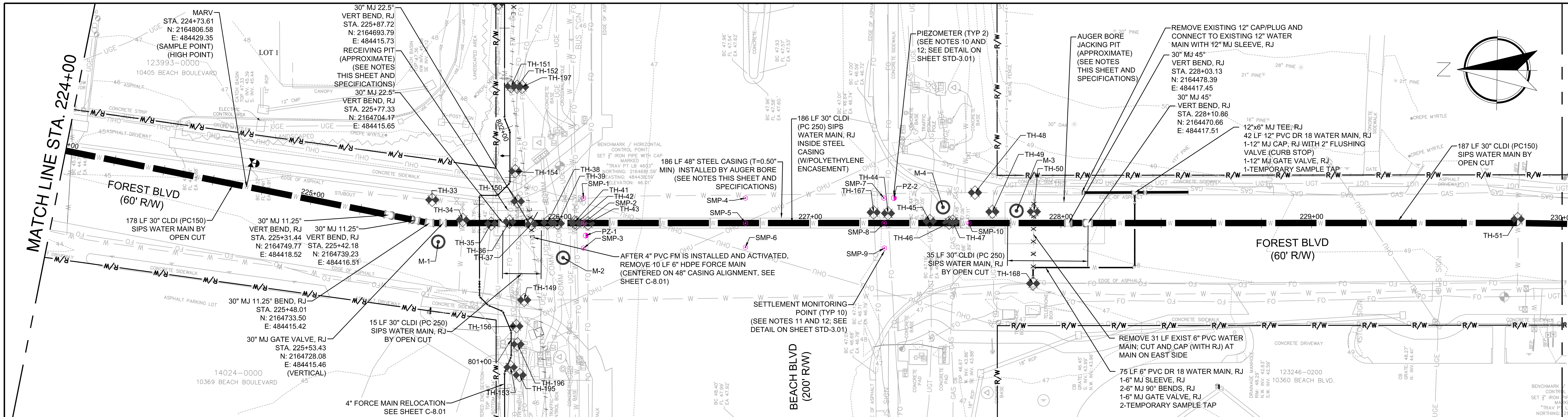
JEA Building Community

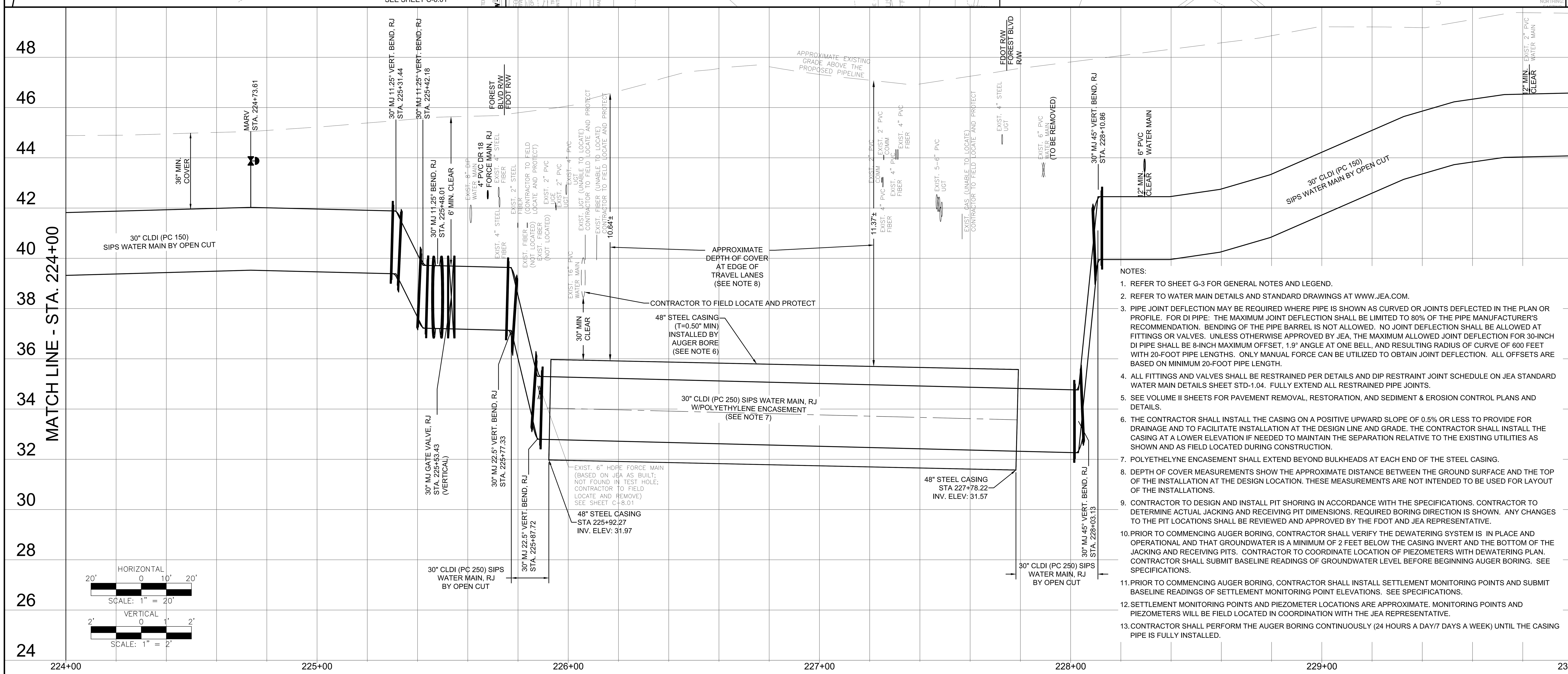
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 218+00 TO 224+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
JEA PROJ NO.: 8004887

PROJ NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 25
DRAWING NO. C-2.04





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4. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
5. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.
6. THE CONTRACTOR SHALL INSTALL THE CASING ON A POSITIVE UPWARD SLOPE OF 0.5% OR LESS TO PROVIDE FOR DRAINAGE AND TO FACILITATE INSTALLATION AT THE DESIGN LINE AND GRADE. THE CONTRACTOR SHALL INSTALL THE CASING AT A LOWER ELEVATION IF NEEDED TO MAINTAIN THE SEPARATION RELATIVE TO THE EXISTING UTILITIES AS SHOWN AND AS FIELD LOCATED DURING CONSTRUCTION.
7. POLYETHYLENE ENCASEMENT SHALL EXTEND BEYOND BULKHEADS AT EACH END OF THE STEEL CASING.
8. DEPTH OF COVER MEASUREMENTS SHOW THE APPROXIMATE DISTANCE BETWEEN THE GROUND SURFACE AND THE TOP OF THE INSTALLATION AT THE DESIGN LOCATION. THESE MEASUREMENTS ARE NOT INTENDED TO BE USED FOR LAYOUT OF THE INSTALLATIONS.
9. CONTRACTOR TO DESIGN AND INSTALL PIT SHORING IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTOR TO DETERMINE ACTUAL JACKING AND RECEIVING PIT DIMENSIONS. REQUIRED BORING DIRECTION IS SHOWN. ANY CHANGES TO THE PIT LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE FDOT AND JEA REPRESENTATIVE.
10. PRIOR TO COMMENCING AUGER BORING, CONTRACTOR SHALL VERIFY THE DEWATERING SYSTEM IS IN PLACE AND OPERATIONAL AND THAT GROUNDWATER IS A MINIMUM OF 2 FEET BELOW THE CASING INVERT AND THE BOTTOM OF THE JACKING AND RECEIVING PITS. CONTRACTOR TO COORDINATE LOCATION OF PIEZOMETERS WITH DEWATERING PLAN. CONTRACTOR SHALL SUBMIT BASELINE READINGS OF GROUNDWATER LEVEL BEFORE BEGINNING AUGER BORING. SEE SPECIFICATIONS.
11. PRIOR TO COMMENCING AUGER BORING, CONTRACTOR SHALL INSTALL SETTLEMENT MONITORING POINTS AND SUBMIT BASELINE READINGS OF SETTLEMENT MONITORING POINT ELEVATIONS. SEE SPECIFICATIONS.
12. SETTLEMENT MONITORING POINTS AND PIEZOMETER LOCATIONS ARE APPROXIMATE. MONITORING POINTS AND PIEZOMETERS WILL BE FIELD LOCATED IN COORDINATION WITH THE JEA REPRESENTATIVE.
13. CONTRACTOR SHALL PERFORM THE AUGER BORING CONTINUOUSLY (24 HOURS A DAY/7 DAYS A WEEK) UNTIL THE CASING PIPE IS FULLY INSTALLED.

Jacobs
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COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG	
DRAWN BY:	DDH/WBG	
DATE:	MAY 2021	
CHECKED BY:	CDJ	
DATE:	MAY 2021	

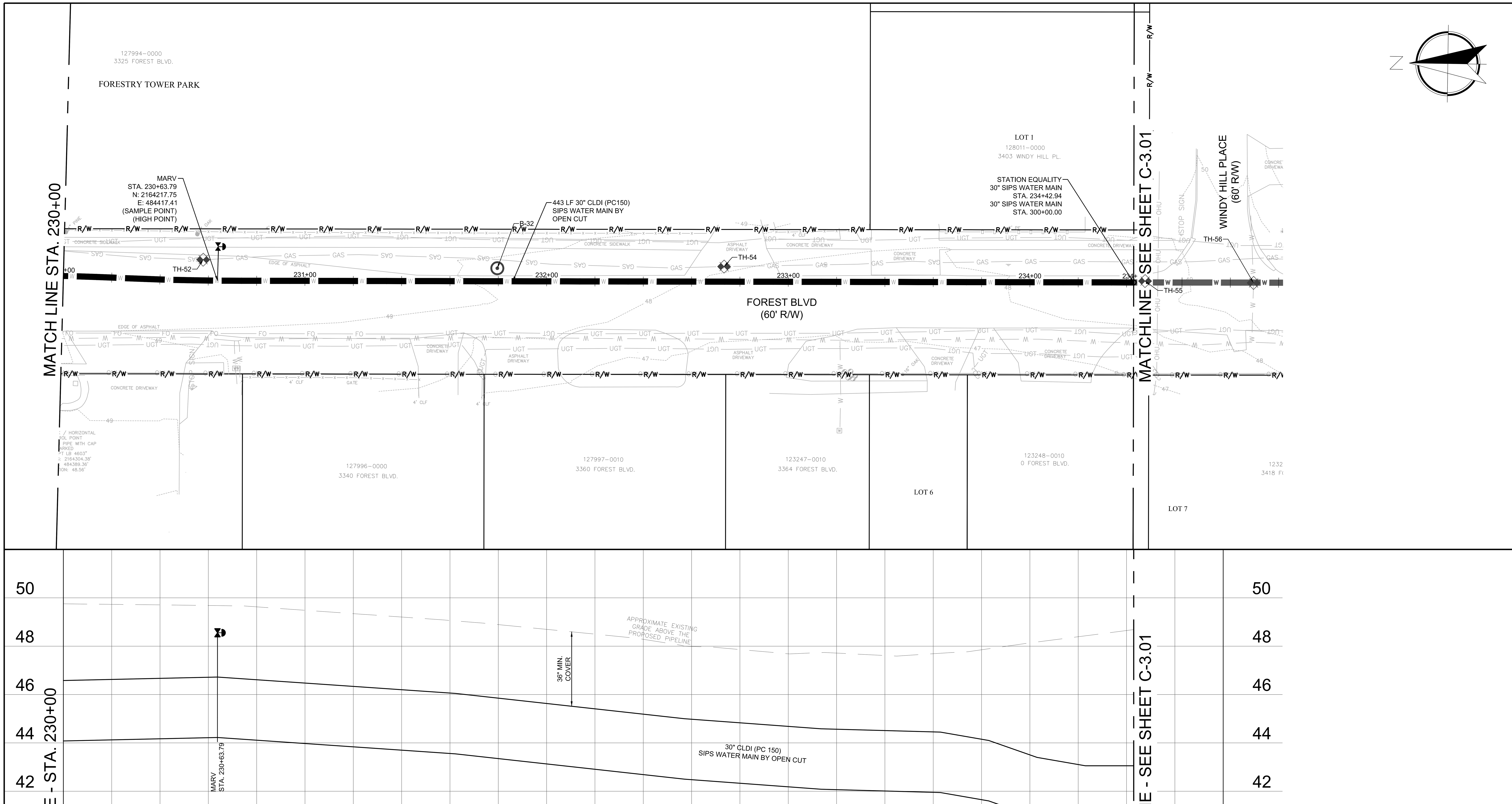
JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 224+00 TO 230+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D3254953 | DATE: MAY 2021 | SCALE: AS SHOWN



NOTES:

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5. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

HORIZONTAL
20' 0 10' 20'
SCALE: 1" = 20'

VERTICAL
2' 0 1' 2'
SCALE: 1" = 2'

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200 WEST FORSYTH STREET, SUITE 1520
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COA # 2822

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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO.
58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 230+00 TO C-3.01

PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS 89
SHEET NO. 27
DRAWING NO. C-2.06

JEA PROJ NO.: 8004887
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

Thu May 27, 2021 — 23:59

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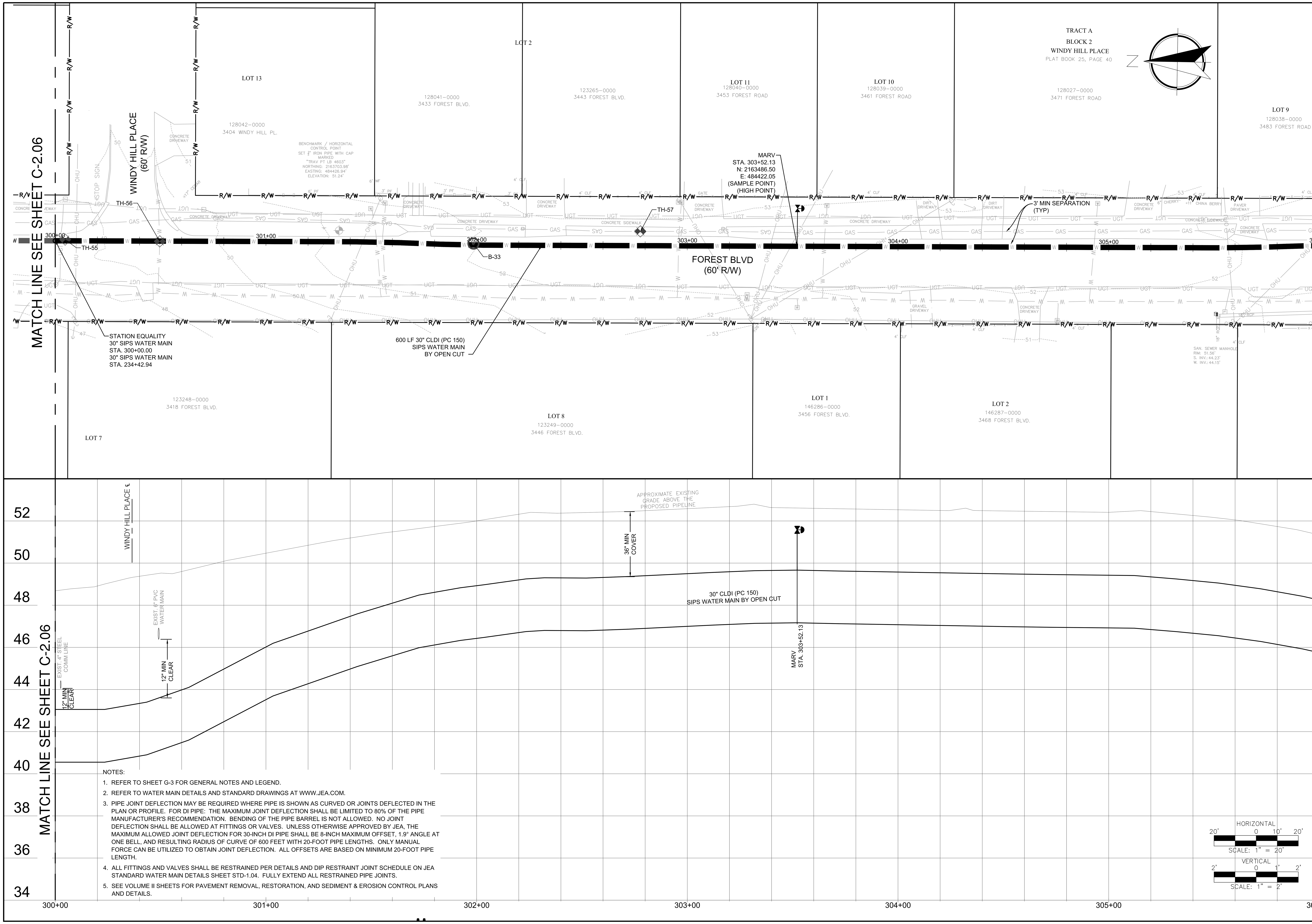

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NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

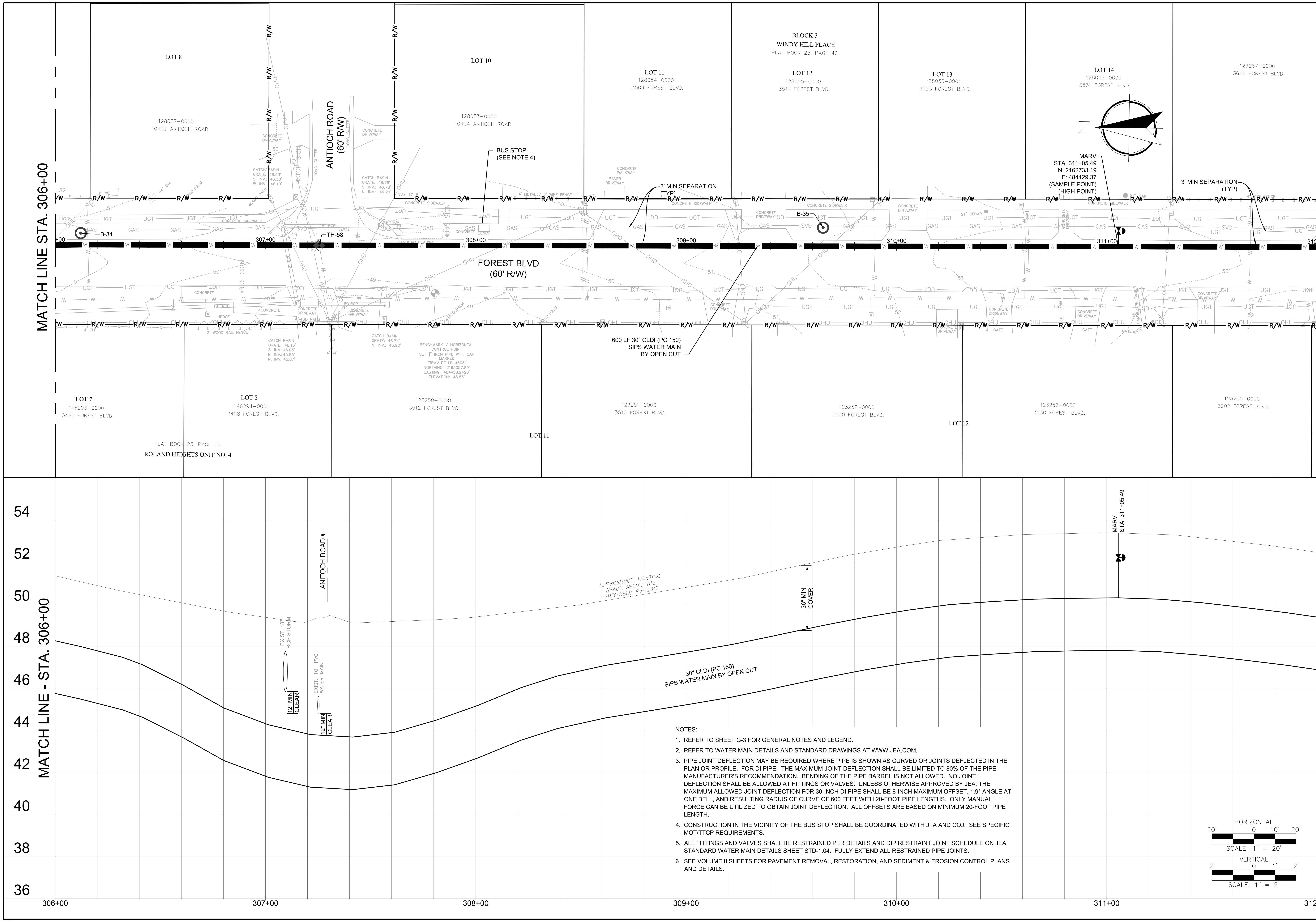
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 300+00 TO 306+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 28
DRAWING NO. C-3.01



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4. CONSTRUCTION IN THE VICINITY OF THE BUS STOP SHALL BE COORDINATED WITH JTA AND COJ. SEE SPECIFIC MOT/TTCP REQUIREMENTS.
5. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSELBG
DRAWN BY: DOHWBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 306+00 TO 312+00

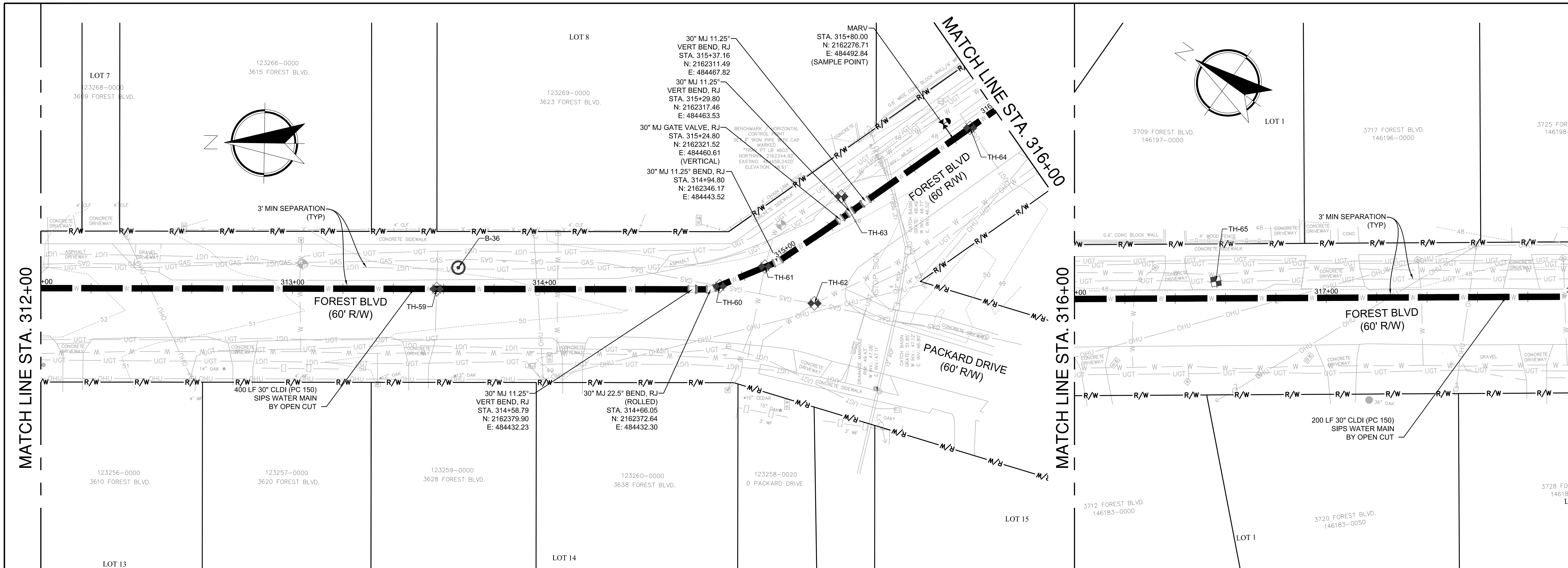
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

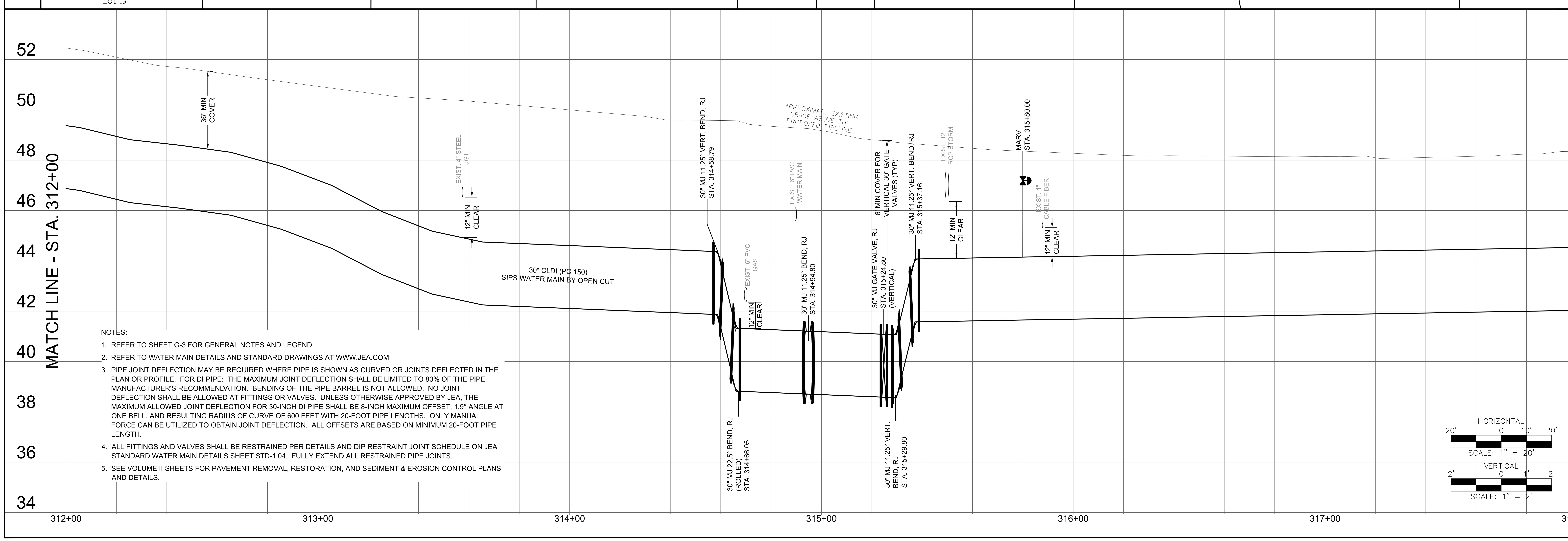
JEA PROJ NO.: 8004887

PROJ. NO.: D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 29
DRAWING NO. C-3.02

C:\pwworking\jacobs_b&i\hilldj\d0228455\P-D3254953-STA300-400-11o5.dwg Current Layout Tab = 30IN SIPS WM PLAN & PROFILE STA 306+00 TO 312+00 Fri, May 28, 2021 - 00:01





NOTES:

1. REFER TO SHEET G-3 FOR GENERAL NOTES AND LEGEND.
2. REFER TO WATER MAIN DETAILS AND STANDARD DRAWINGS AT WWW.JEA.COM.
3. PIPE JOINT DEFLECTION MAY BE REQUIRED WHERE PIPE IS SHOWN AS CURVED OR JOINTS DEFLECTED IN THE PLAN OR PROFILE. FOR DI PIPE: THE MAXIMUM JOINT DEFLECTION SHALL BE LIMITED TO 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION. BENDING OF THE PIPE BARREL IS NOT ALLOWED. NO JOINT DEFLECTION SHALL BE ALLOWED AT FITTINGS OR VALVES. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ALLOWED JOINT DEFLECTION FOR 30-INCH DI PIPE SHALL BE 8-INCH MAXIMUM OFFSET, 1.9° ANGLE AT ONE BELL, AND RESULTING RADIUS OF CURVE OF 600 FEET WITH 20-FOOT PIPE LENGTHS. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20-FOOT PIPE LENGTH.
4. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
5. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

Jacobs
200 WEST FORSYTH STREET, SUITE 1520
JACKSONVILLE, FL 32202
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COA # 2822

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

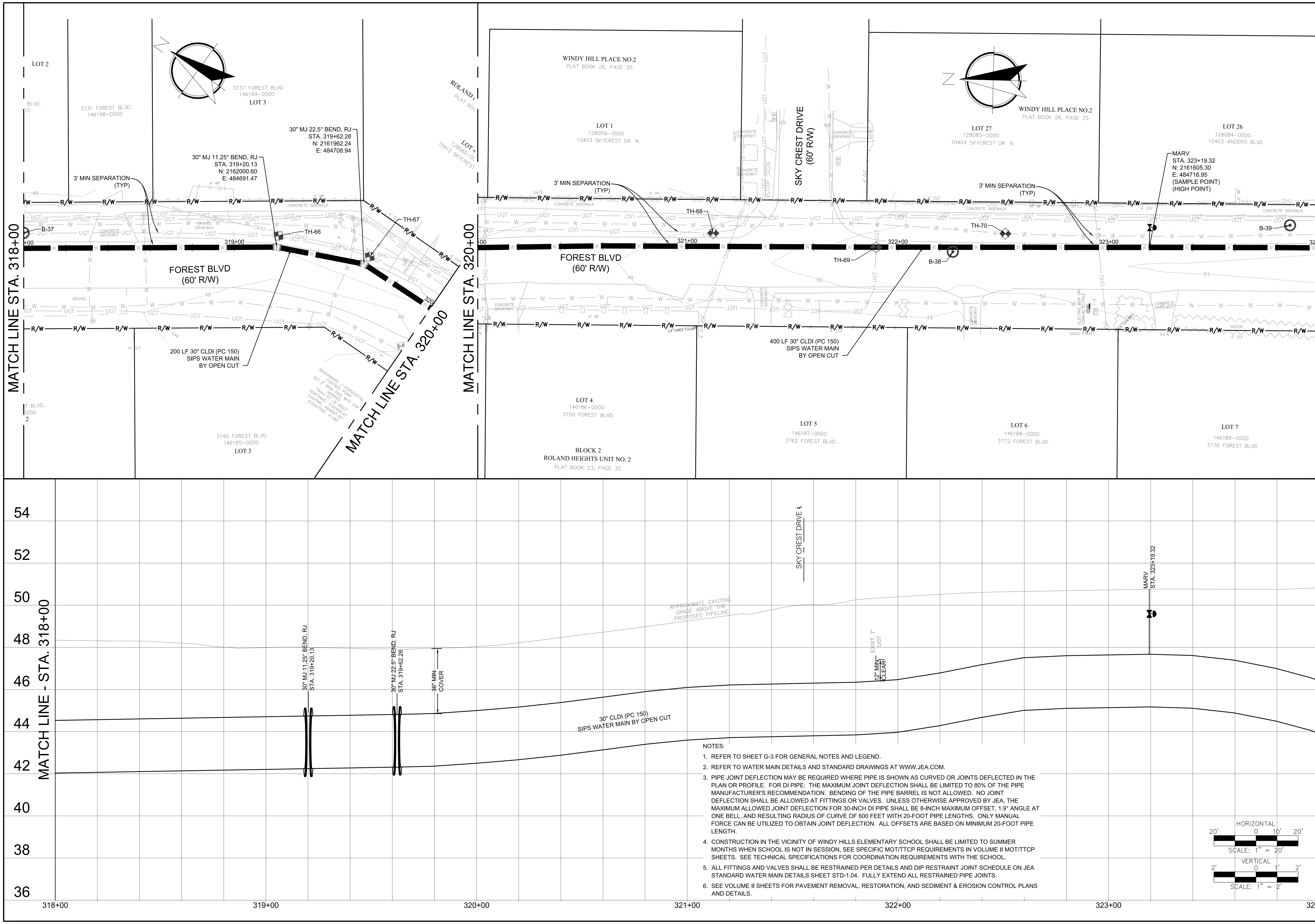
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 312+00 TO 318+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 30
DRAWING NO. C-3.03



NOTES:

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COA # 2822

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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community

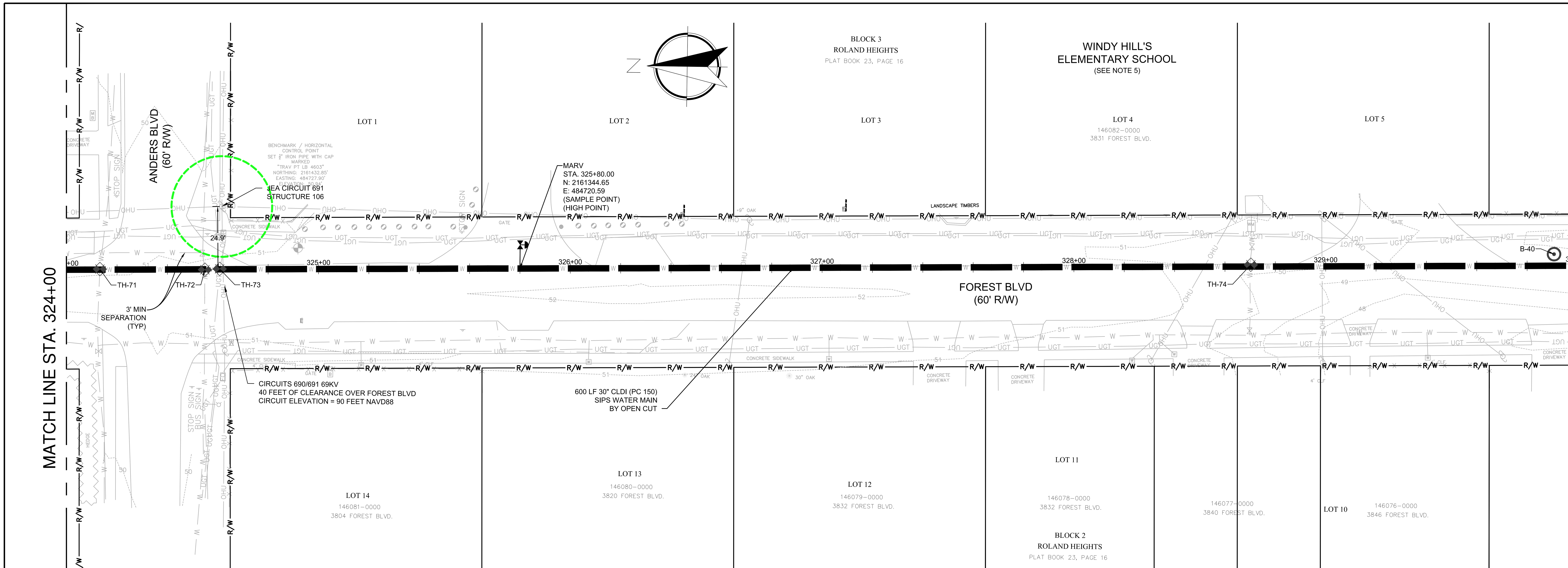
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 318+00 TO 324+00

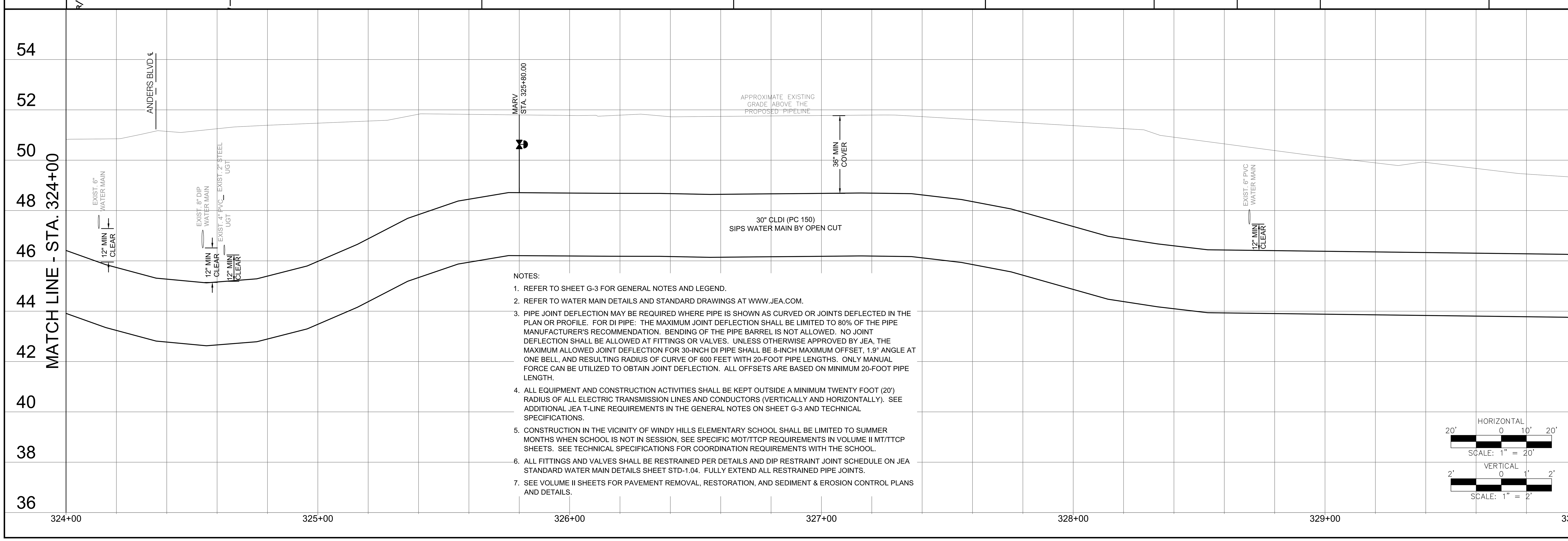
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

NO. SHEETS 89	PROJ. NO. D32549S3
SHEET NO. 31	DATE: MAY 2021
DRAWING NO. C-3.04	SCALE: AS SHOWN

Fri, May 28, 2021 - 00:04





NOTES:

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4. ALL EQUIPMENT AND CONSTRUCTION ACTIVITIES SHALL BE KEPT OUTSIDE A MINIMUM TWENTY FOOT (20') RADIUS OF ALL ELECTRIC TRANSMISSION LINES AND CONDUCTORS (VERTICALLY AND HORIZONTALLY). SEE ADDITIONAL JEA T-LINE REQUIREMENTS IN THE GENERAL NOTES ON SHEET G-3 AND TECHNICAL SPECIFICATIONS.
5. CONSTRUCTION IN THE VICINITY OF WINDY HILLS ELEMENTARY SCHOOL SHALL BE LIMITED TO SUMMER MONTHS WHEN SCHOOL IS NOT IN SESSION, SEE SPECIFIC MOT/TTCP REQUIREMENTS IN VOLUME II MT/TTCP SHEETS. SEE TECHNICAL SPECIFICATIONS FOR COORDINATION REQUIREMENTS WITH THE SCHOOL.
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COA # 2822

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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO.
58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community

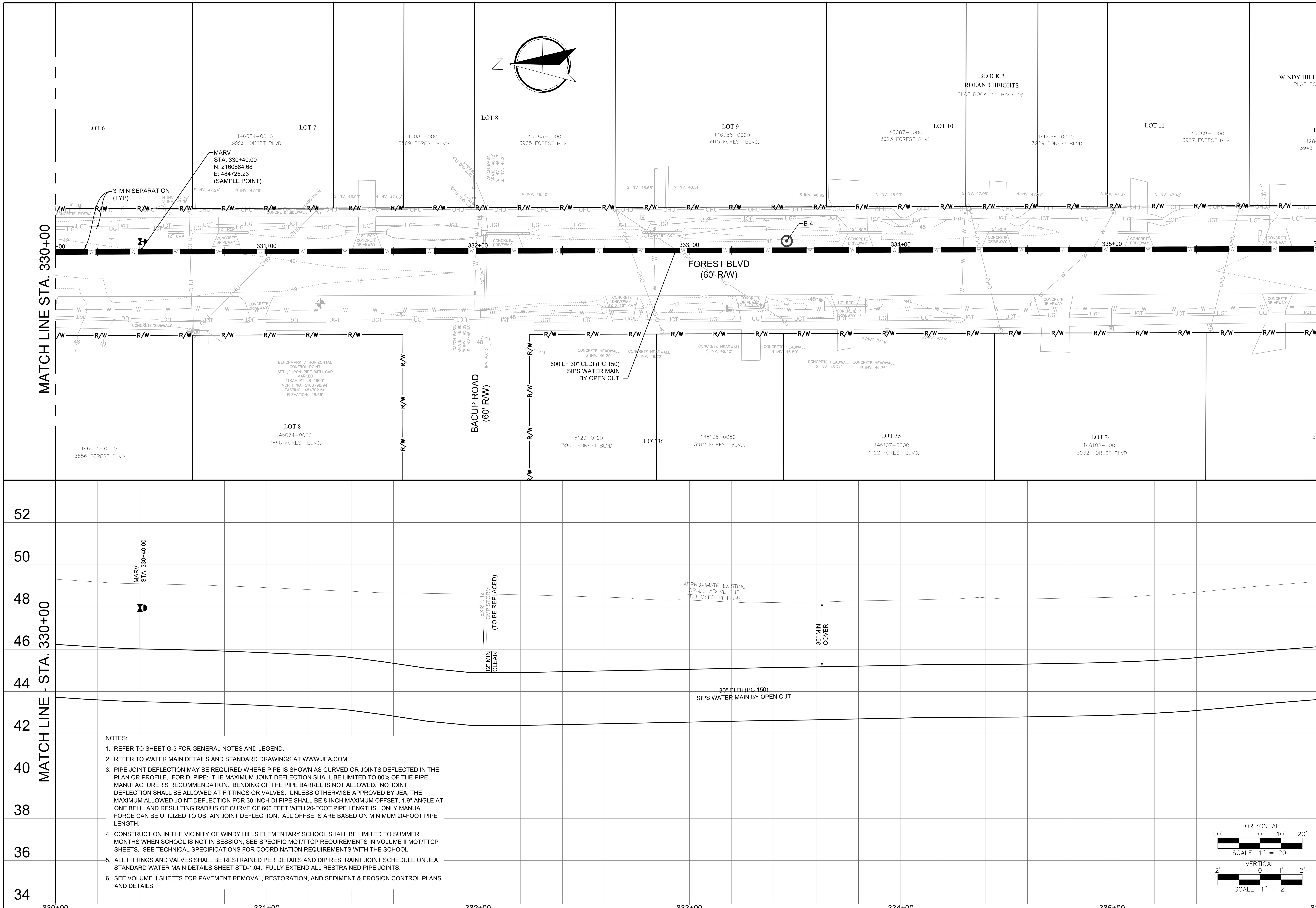
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 324+00 TO 330+00

PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS 89
SHEET NO. 32
DRAWING NO. C-3.05

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887



NOTES:

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COA # 2822

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

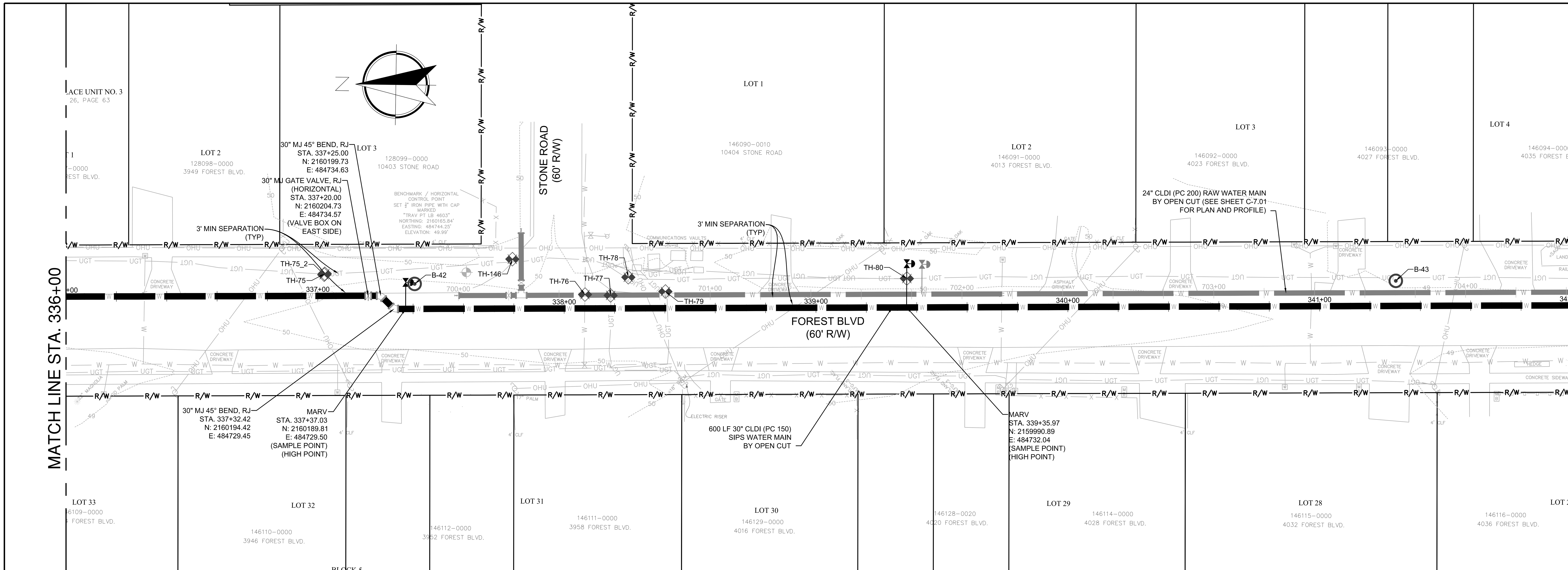
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

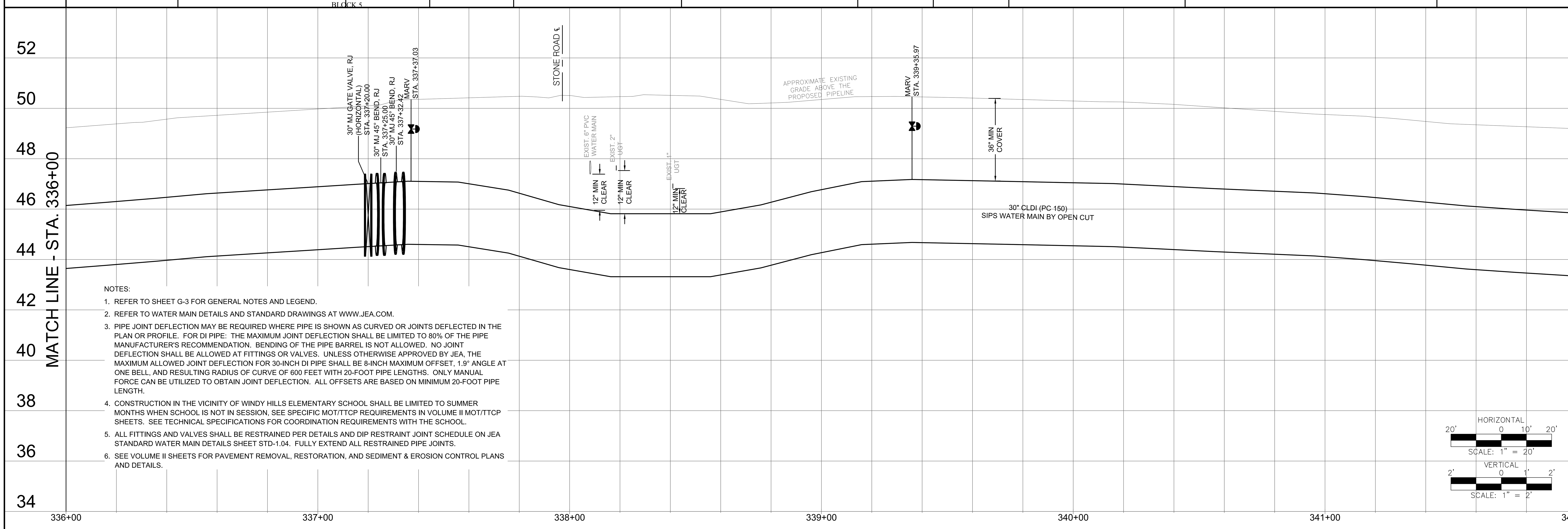
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 330+00 TO 336+00

JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 33
DRAWING NO. C-3.06





NOTES:

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COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDU
DATE:	MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 336+00 TO 342+00

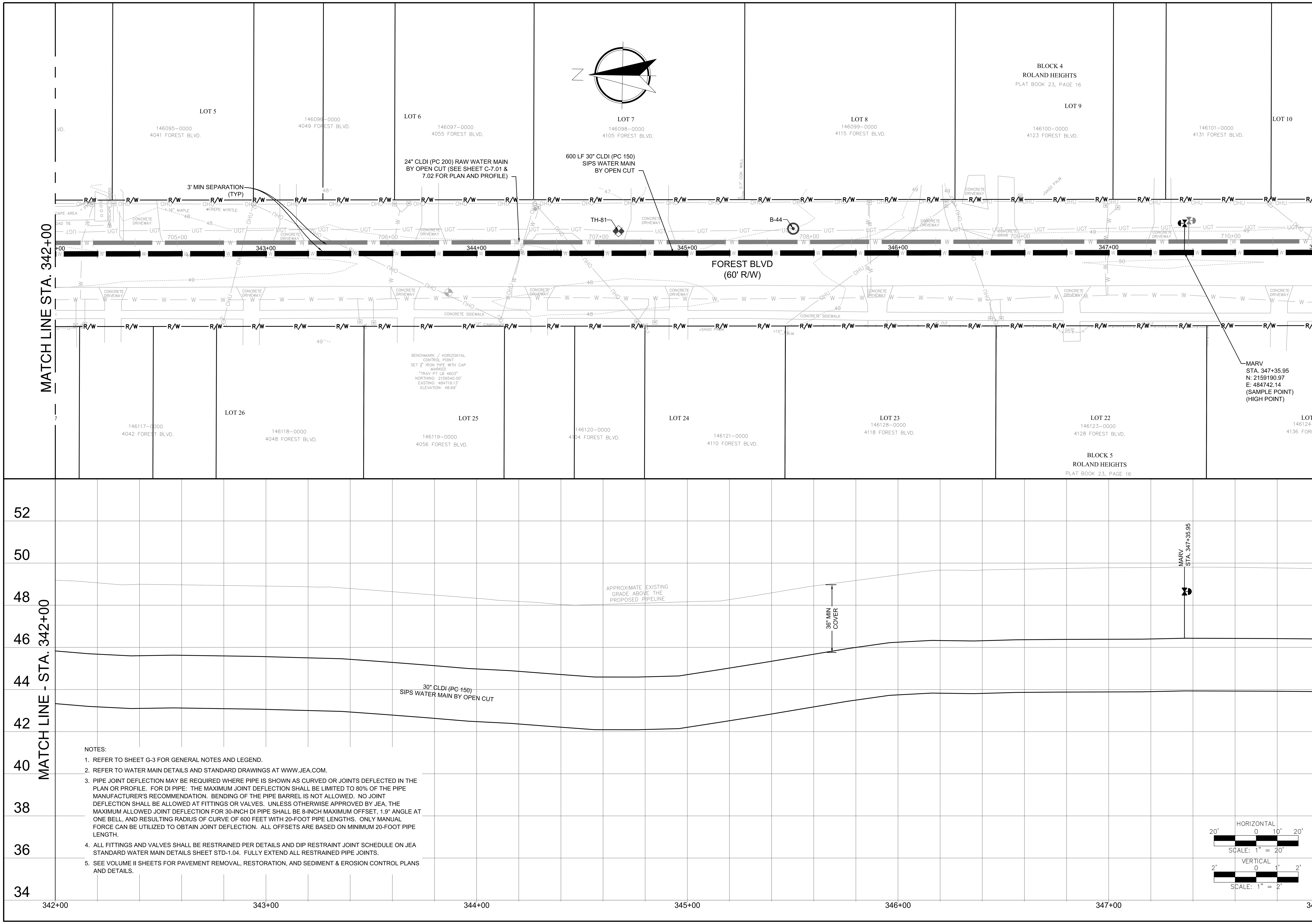
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO.	D3254953
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS 89
SHEET NO. 34
DRAWING NO. C-3.07

Fri May 28, 2021 - 00:07
Current Layout Tab = 30IN SIPS WM PLAN & PROFILE STA 336+00 TO 342+00



NOTES:

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COA # 2822

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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community

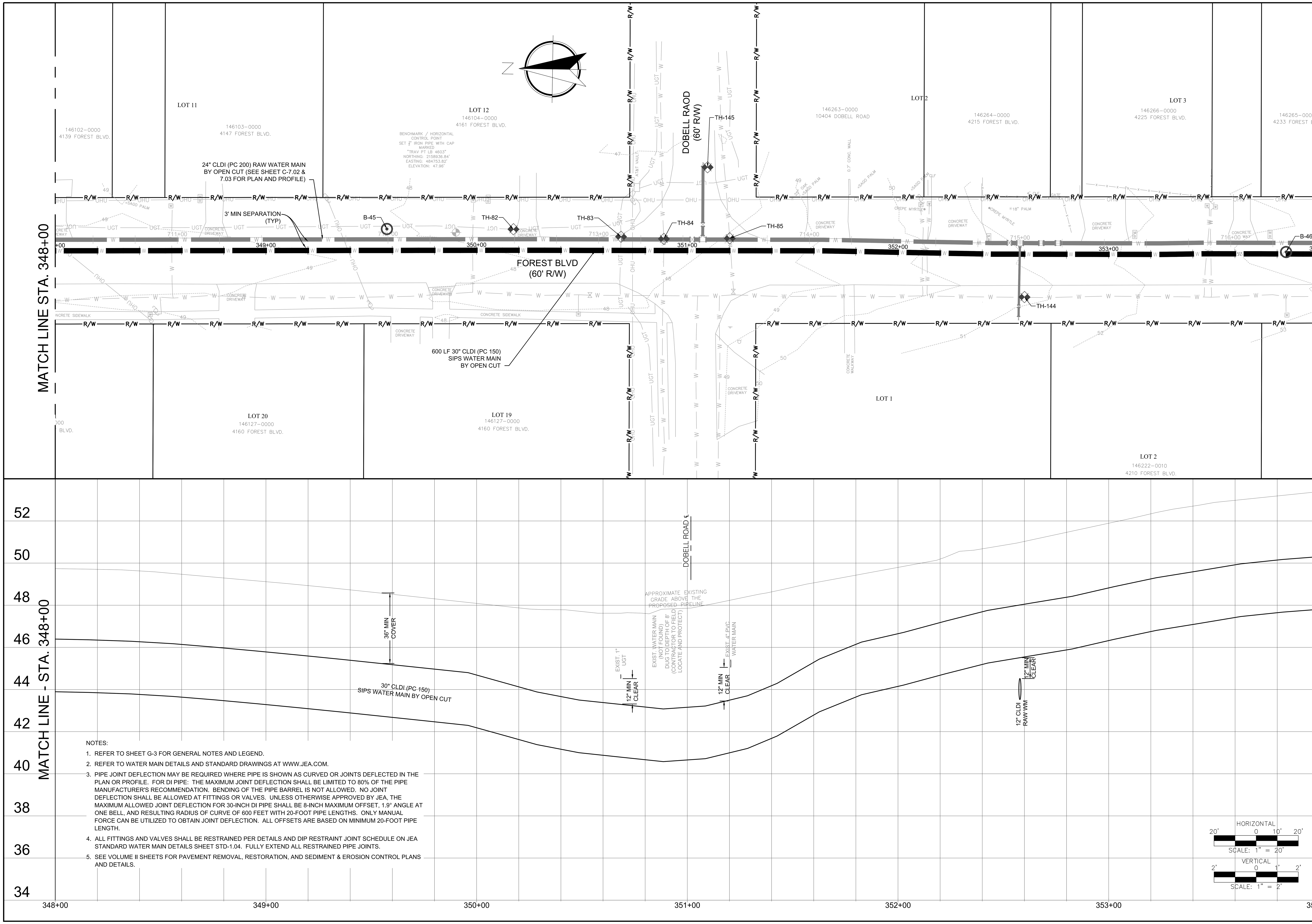
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 342+00 TO 348+00

PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS 89
SHEET NO. 35
DRAWING NO. C-3.08

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887



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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 348+00 TO 354+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 36
DRAWING NO. C-3.09

Fri May 28, 2021 – 00:08
Current Layout Tab = 30IN SIPS WM PLAN & PROFILE STA 348+00 TO 354+00
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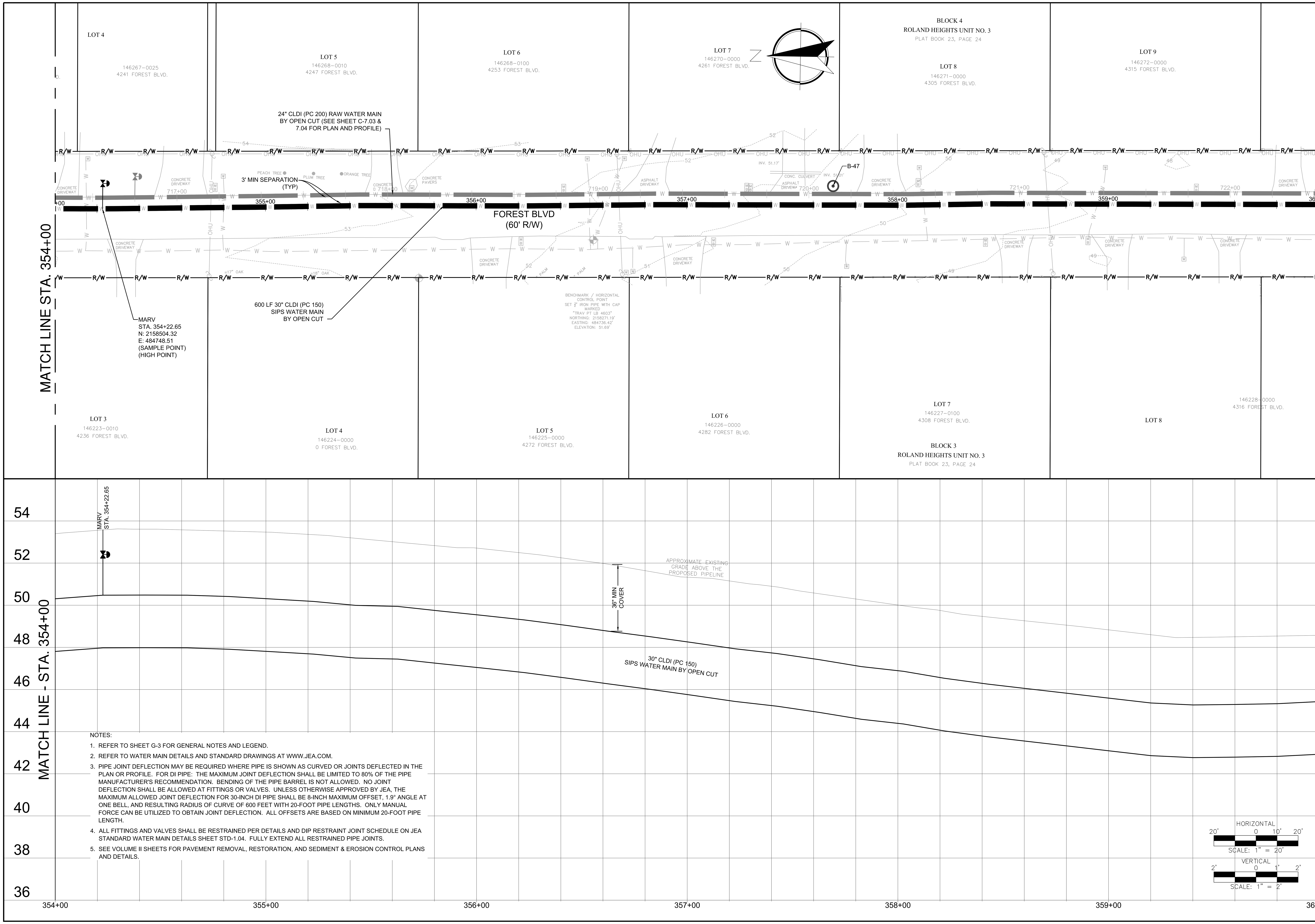

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 354+00 TO 360+00

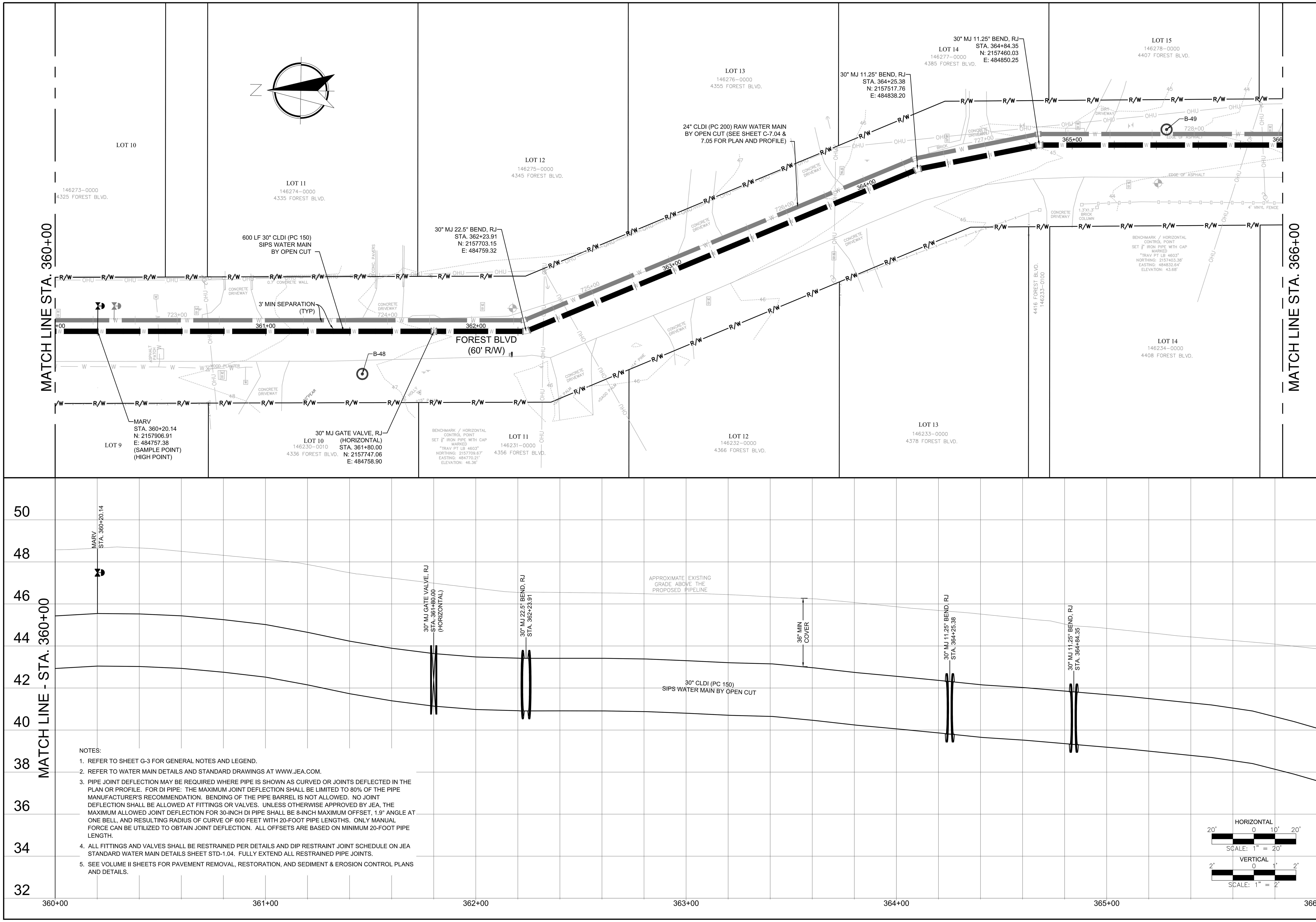
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 37
DRAWING NO. C-3.10

Fri May 28, 2021 - 00:08
Current Layout Tab = 30IN SIPS WM PLAN & PROFILE STA 354+00 TO 360+00



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4. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
5. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

Jacobs
200 WEST FORSYTH STREET, SUITE 1520
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T:(904) 636-5432
F:(904) 224-3102
COA # 2822

NO.	BY	DATE	REVISIONS
6.			
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community

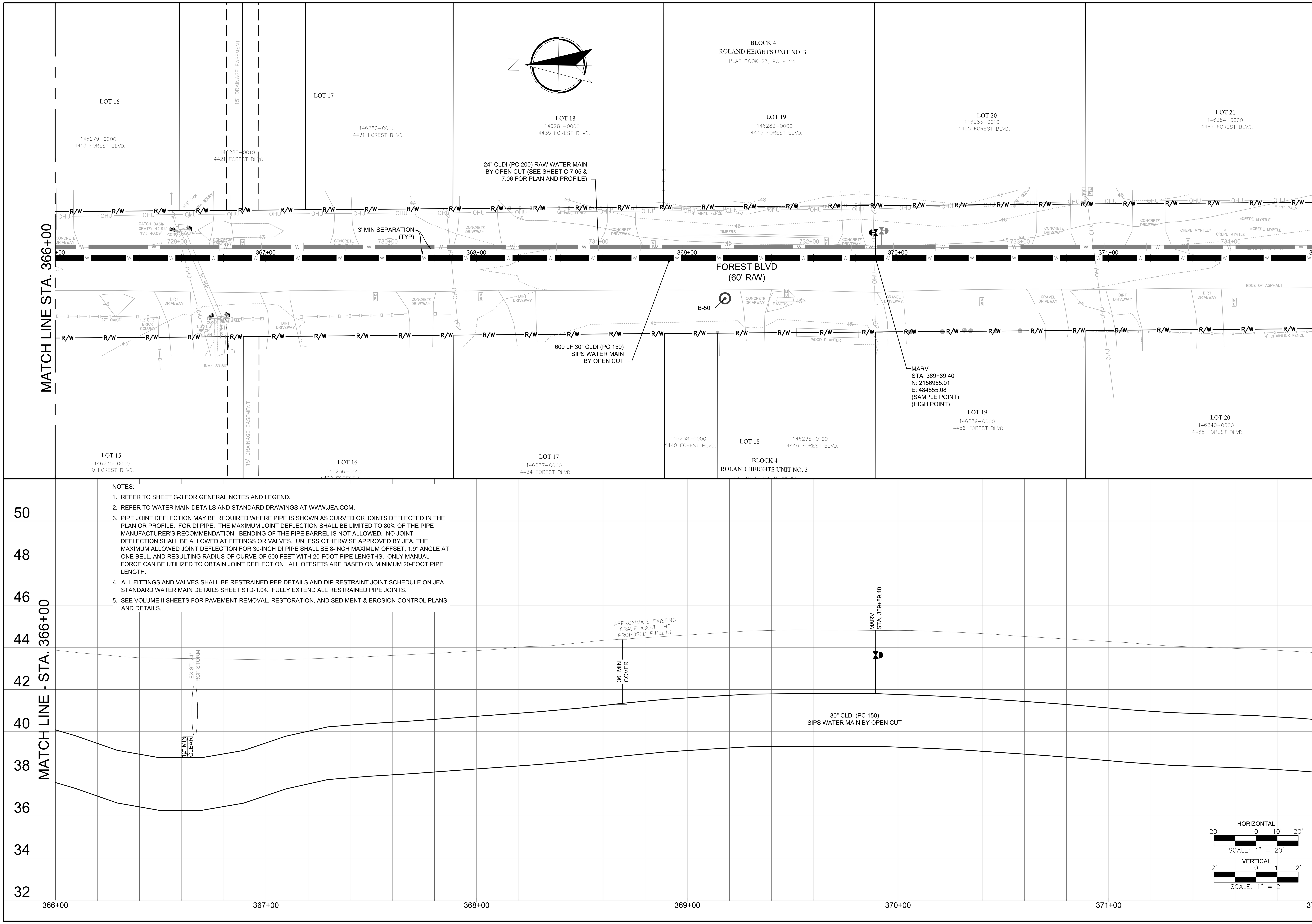
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 360+00 TO 366+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 38
DRAWING NO. C-3.11



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NO. | BY | DATE | REVISIONS

DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

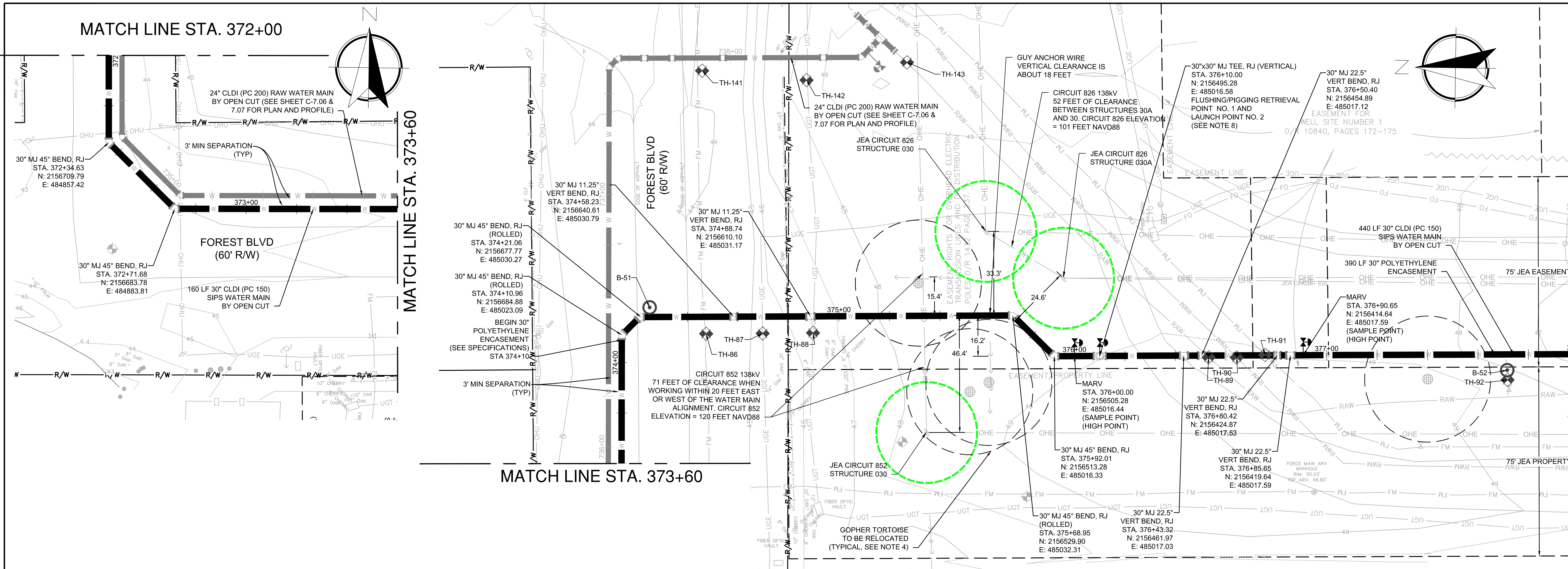
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 366+00 TO 372+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 39
DRAWING NO. C-3.12



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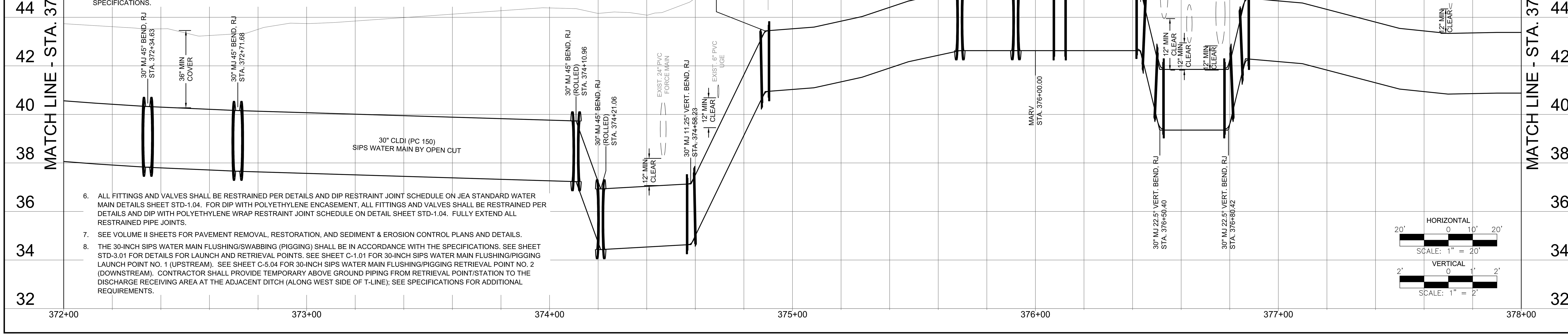
6. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FOR DIP WITH POLYETHYLENE ENCASEMENT, ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP WITH POLYETHYLENE WRAP RESTRAINT JOINT SCHEDULE ON DETAIL SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
7. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.
8. THE 30-INCH SIPS WATER MAIN FLUSHING/SWABBING (PIGGING) SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. SEE SHEET STD-3.01 FOR DETAILS FOR LAUNCH AND RETRIEVAL POINTS. SEE SHEET C-1.01 FOR 30-INCH SIPS WATER MAIN FLUSHING/PIGGING LAUNCH POINT NO. 1 (UPSTREAM). SEE SHEET C-5.04 FOR 30-INCH SIPS WATER MAIN FLUSHING/PIGGING RETRIEVAL POINT NO. 2 (DOWNSTREAM). CONTRACTOR SHALL PROVIDE TEMPORARY ABOVE GROUND PIPING FROM RETRIEVAL POINT/STATION TO THE DISCHARGE RECEIVING AREA AT THE ADJACENT DITCH (ALONG WEST SIDE OF T-LINE); SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



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COA # 2822

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSELBG
DATE: MAY 2021
DRAWN BY: DDHWBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

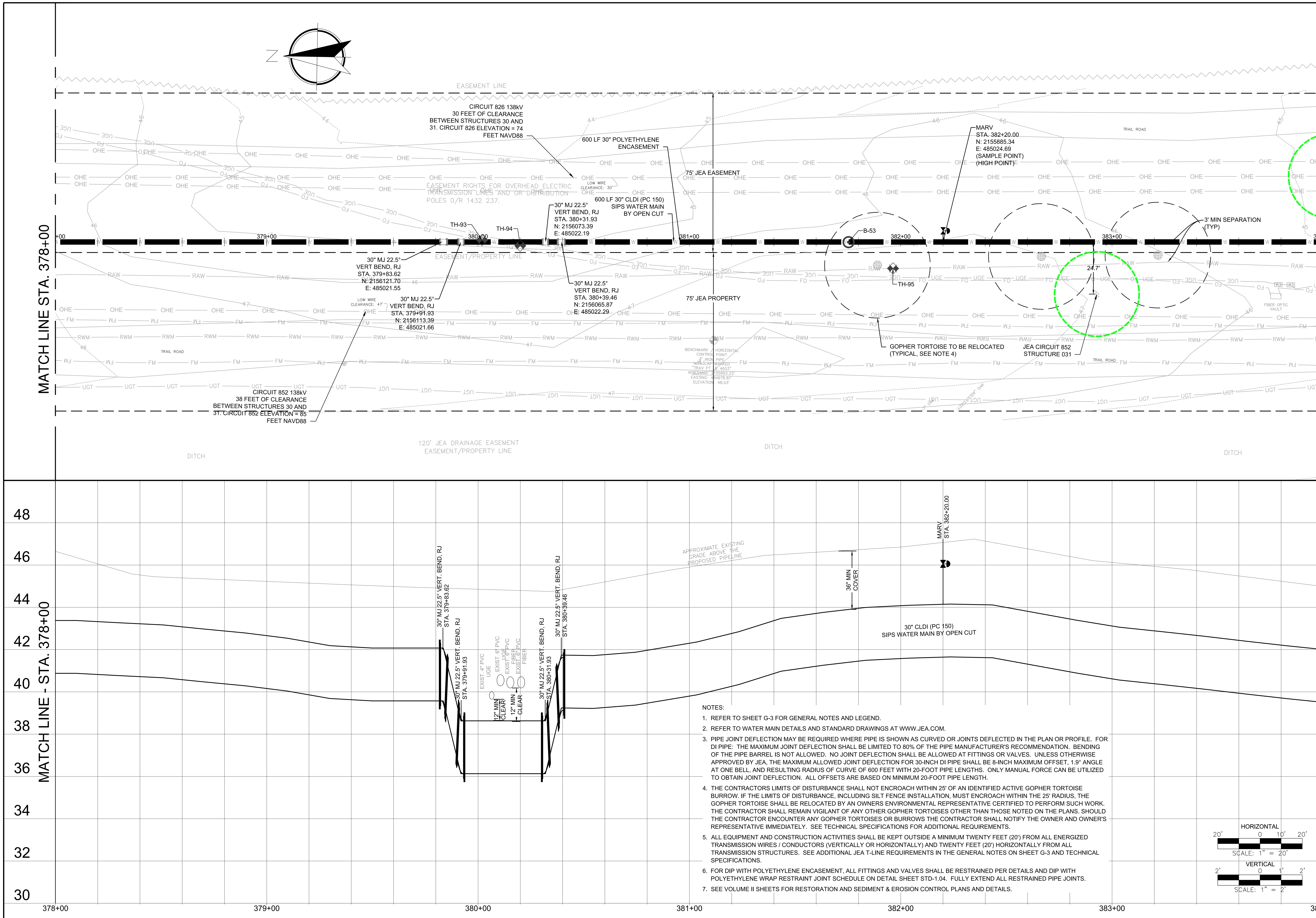
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 372+00 TO 378+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO.: D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS: 89
SHEET NO.: 40
DRAWING NO.: C-3.13



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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSELBG
DRAWN BY: DDHWBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community℠

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 378+00 TO 384+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 41
DRAWING NO. C-3.14

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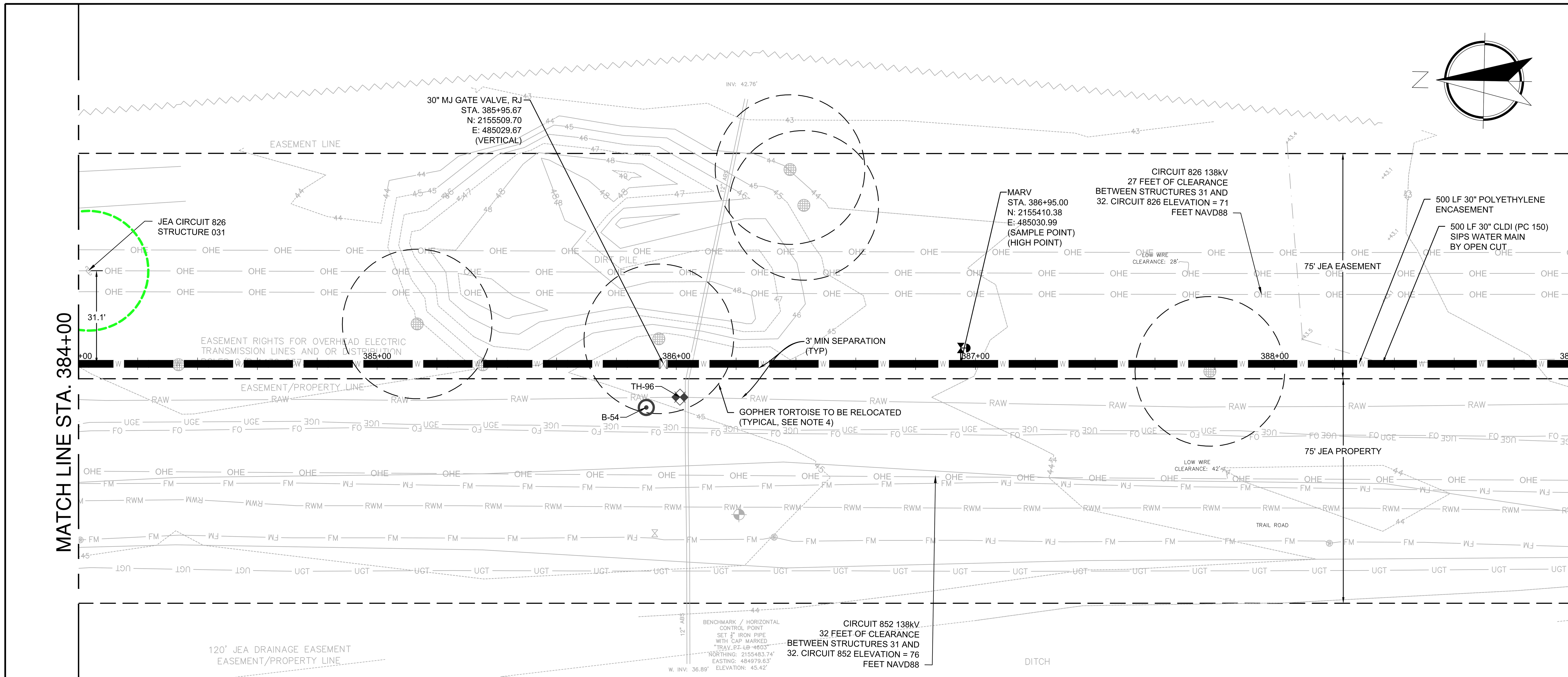

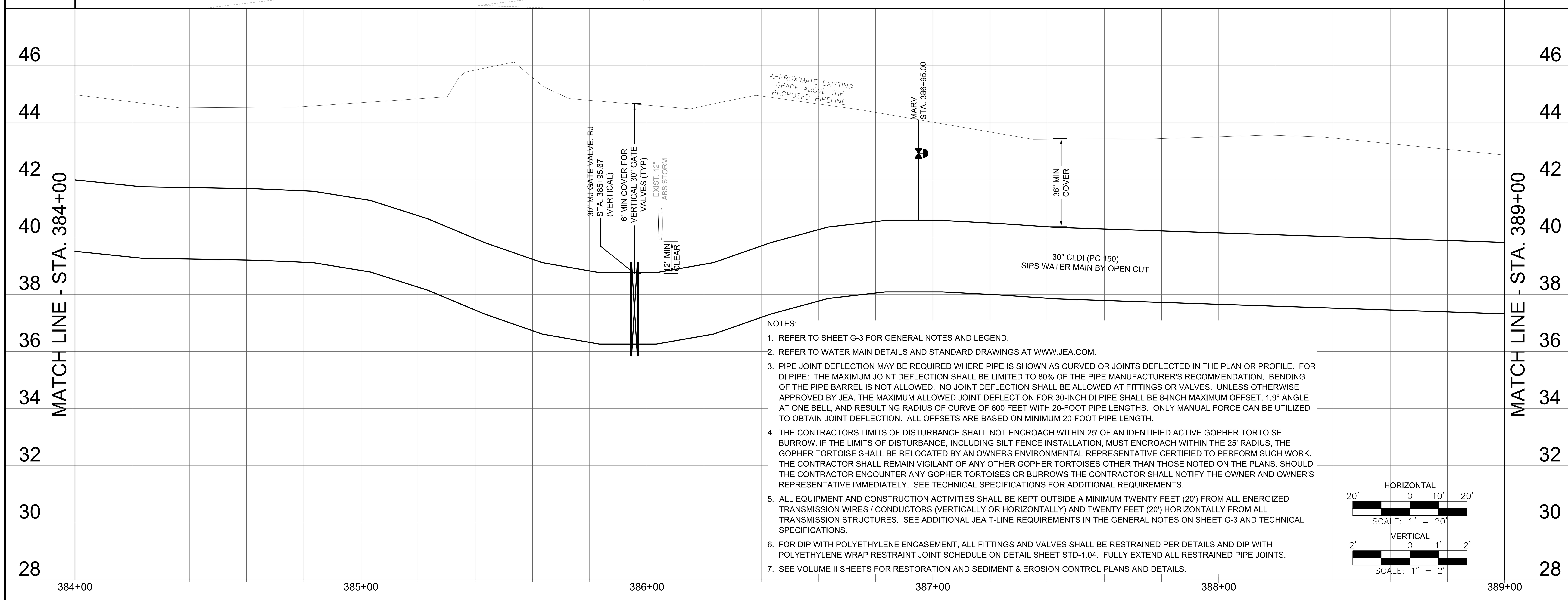

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Jacobs
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COA # 2822

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

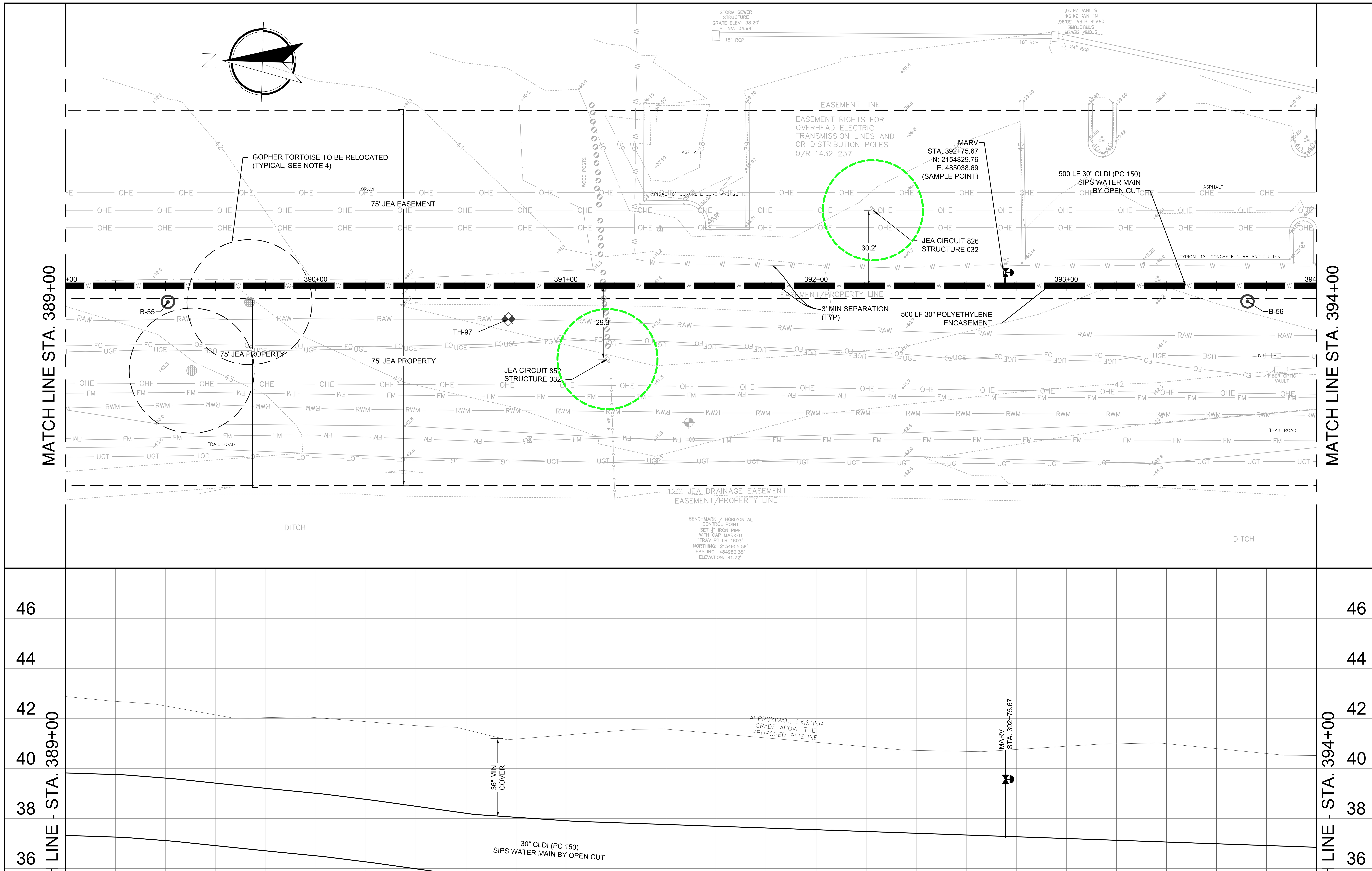
JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 384+00 TO 389+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN
NO. SHEETS	89
SHEET NO.	42
DRAWING NO.	C-3.15



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389+00 390+00 391+00 392+00 393+00 394+00

HORIZONTAL
20' 0 10' 20'
SCALE: 1" = 20'

VERTICAL
2' 0 1' 2'
SCALE: 1" = 2'

Jacobs
200 WEST FORSYTH STREET, SUITE 1520
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COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO.
58418

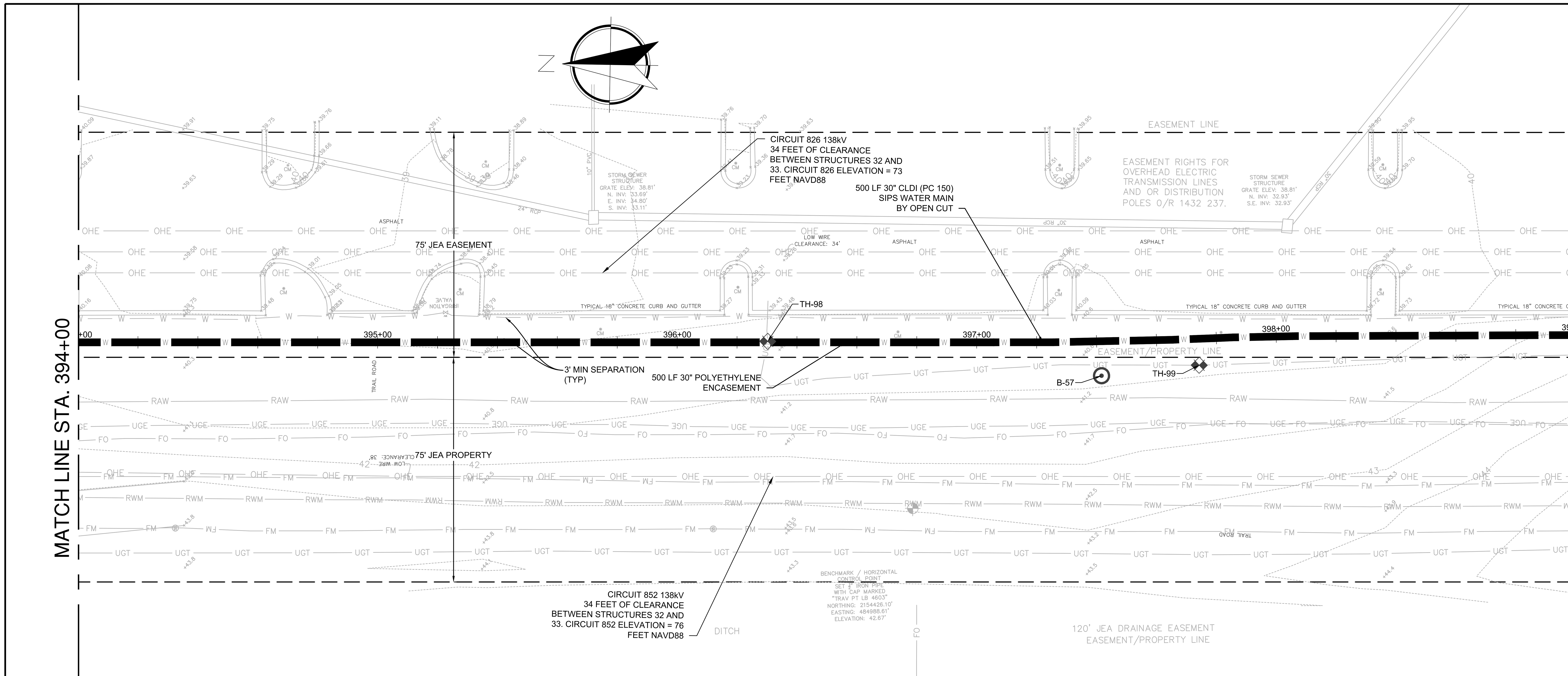
DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 389+00 TO 394+00

NO. SHEETS 89	PROJ. NO. D32549S3
SHEET NO. 43	DATE: MAY 2021
DRAWING NO. C-3.16	SCALE: AS SHOWN

JEA PROJ NO.: 8004887
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP



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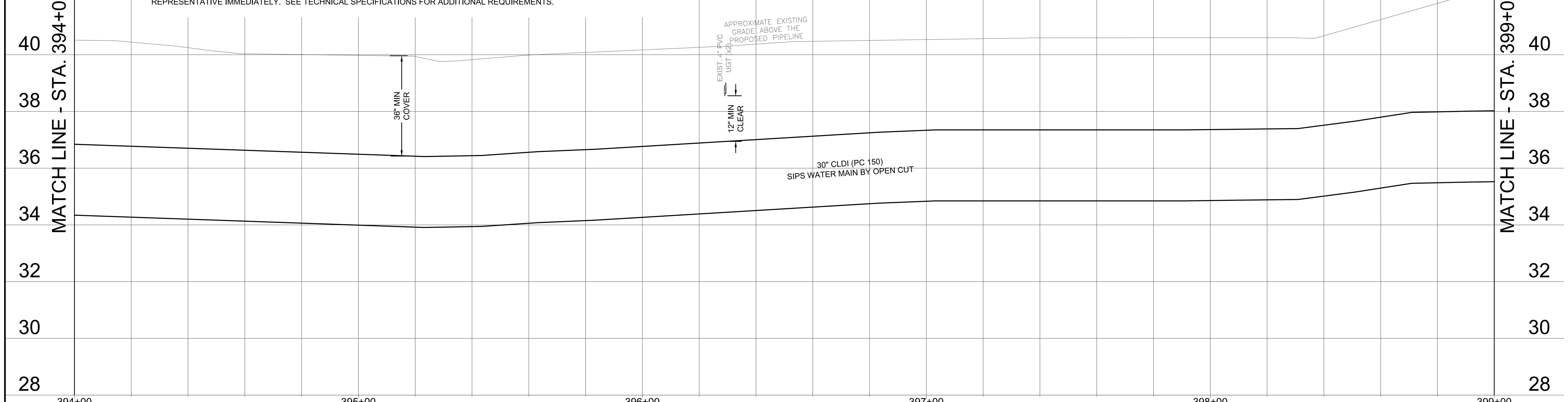

HORIZONTAL
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SCALE: 1" = 20'

VERTICAL
2' 0 1' 2'
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REVISIONS

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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

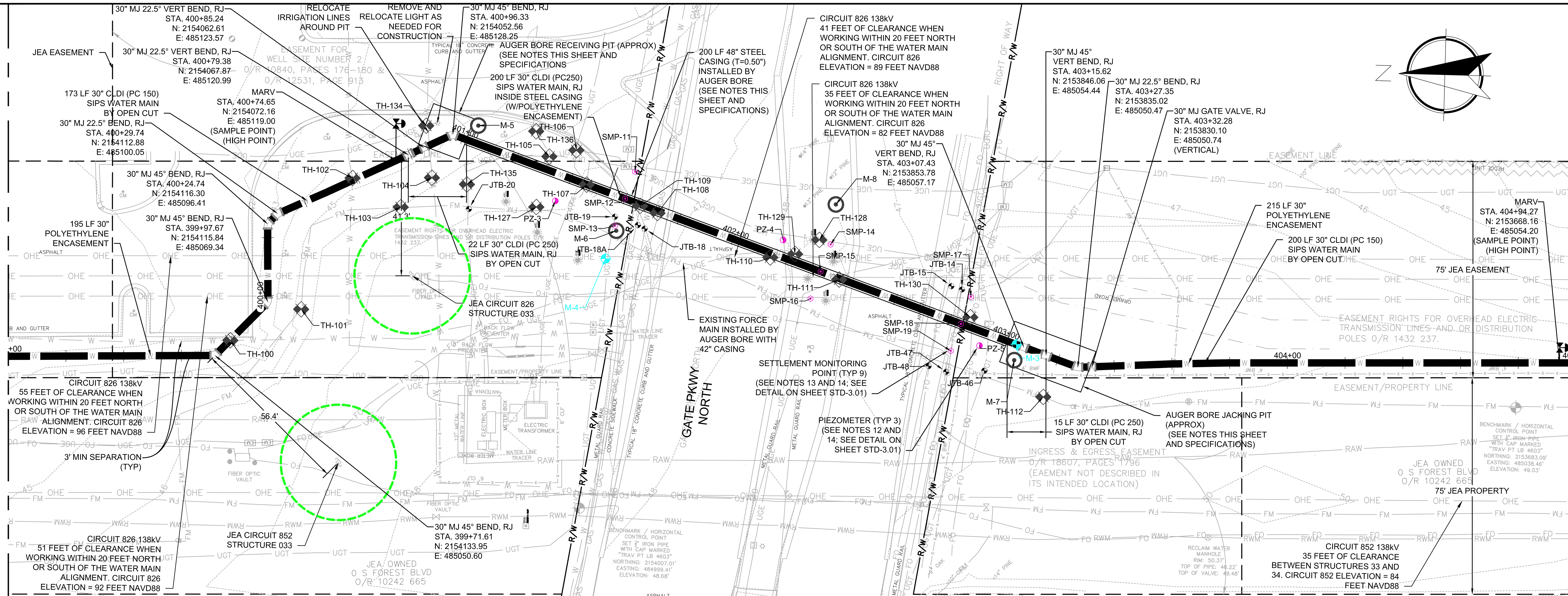
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 394+00 TO 399+00

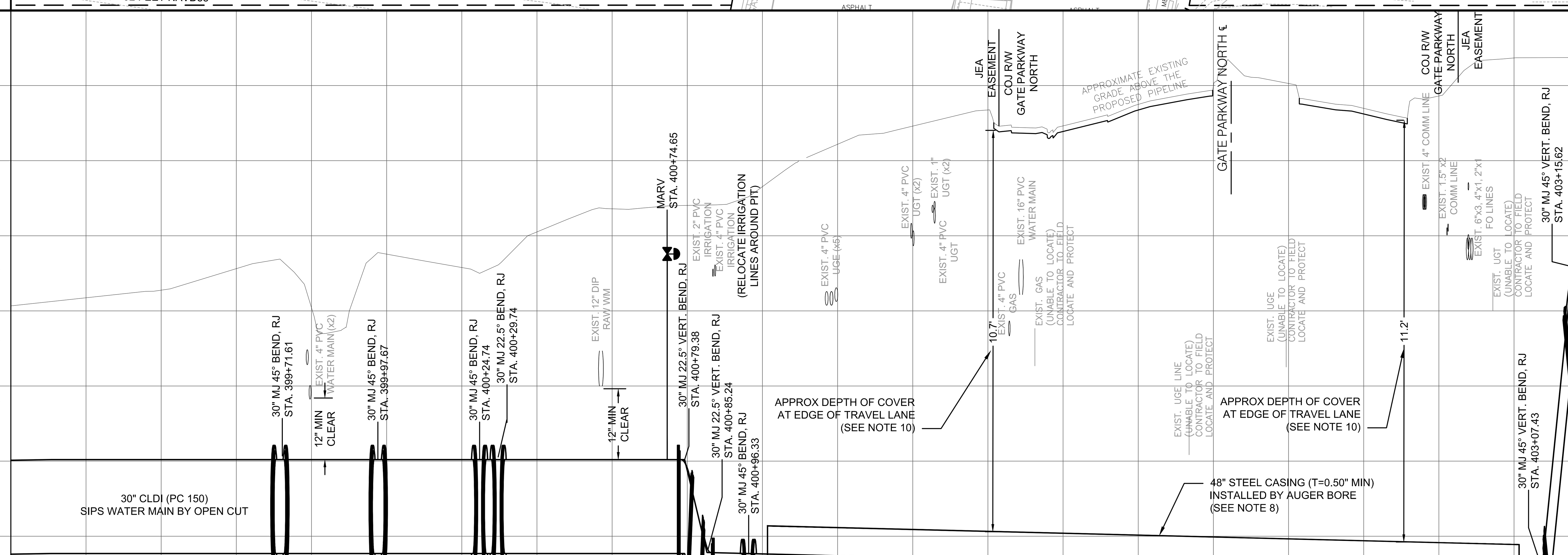
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 44
DRAWING NO. C-3.17





NOTES:

1. REFER TO SHEET G-3 FOR GENERAL NOTES AND LEGEND.
2. REFER TO WATER MAIN DETAILS AND STANDARD DRAWINGS AT WWW.JEA.COM.
3. PIPE JOINT DEFLECTION MAY BE REQUIRED WHERE PIPE IS SHOWN AS CURVED OR JOINTS DEFLECTED IN THE PLAN OR PROFILE. FOR DI PIPE: THE MAXIMUM JOINT DEFLECTION SHALL BE LIMITED TO 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION. BENDING OF THE PIPE BARREL IS NOT ALLOWED. NO JOINT DEFLECTION SHALL BE ALLOWED AT FITTINGS OR VALVES. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ALLOWED JOINT DEFLECTION FOR 30-INCH DI PIPE SHALL BE 8-INCH MAXIMUM OFFSET, 1.9° ANGLE AT ONE BELL, AND RESULTING RADIUS OF CURVE OF 600 FEET WITH 20-FOOT PIPE LENGTHS. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20-FOOT PIPE LENGTH.
4. THE CONTRACTORS LIMITS OF DISTURBANCE SHALL NOT ENCROACH WITHIN 25' OF AN IDENTIFIED ACTIVE GOPHER TORTOISE BURROW. IF THE LIMITS OF DISTURBANCE, INCLUDING SILT FENCE INSTALLATION, MUST ENCROACH WITHIN THE 25' RADIUS, THE GOPHER TORTOISE SHALL BE RELOCATED BY AN OWNERS ENVIRONMENTAL REPRESENTATIVE CERTIFIED TO PERFORM SUCH WORK. THE CONTRACTOR SHALL REMAIN VIGILANT OF ANY OTHER GOPHER TORTOISES OTHER THAN THOSE NOTED ON THE PLANS. SHOULD THE CONTRACTOR ENCOUNTER ANY GOPHER TORTOISES OR BURROWS THE CONTRACTOR SHALL NOTIFY THE OWNER AND OWNER'S REPRESENTATIVE IMMEDIATELY. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

NOTES:

5. ALL EQUIPMENT AND CONSTRUCTION ACTIVITIES SHALL BE KEPT OUTSIDE A MINIMUM TWENTY FEET (20') FROM ALL ENERGIZED TRANSMISSION WIRES / CONDUCTORS (VERTICALLY OR HORIZONTALLY) AND TWENTY FEET (20') HORIZONTALLY FROM ALL TRANSMISSION STRUCTURES. SEE ADDITIONAL JEA T-LINE REQUIREMENTS IN THE GENERAL NOTES ON SHEET G-3 AND TECHNICAL SPECIFICATIONS.
6. FOR DIP WITH POLYETHYLENE ENCASEMENT, ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP WITH POLYETHYLENE WRAP RESTRAINT JOINT SCHEDULE ON DETAIL SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
7. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.
8. THE CONTRACTOR SHALL INSTALL THE CASING ON A POSITIVE UPWARD SLOPE OF 0.5% OR LESS TO PROVIDE FOR DRAINAGE AND TO FACILITATE INSTALLATION AT THE DESIGN LINE AND GRADE. THE CONTRACTOR SHALL INSTALL THE CASING AT A LOWER ELEVATION IF NEEDED TO MAINTAIN THE SEPARATION RELATIVE TO THE EXISTING UTILITIES AS SHOWN AND AS FIELD LOCATED DURING CONSTRUCTION.
9. POLYETHYLENE ENCASEMENT SHALL EXTEND BEYOND BULKHEADS AT EACH END OF THE STEEL CASING.
10. DEPTH OF COVER MEASUREMENTS SHOW THE APPROXIMATE DISTANCE BETWEEN THE GROUND SURFACE AND THE TOP OF THE INSTALLATION AT THE DESIGN LOCATION. THESE MEASUREMENTS ARE NOT INTENDED TO BE USED FOR LAYOUT OF THE INSTALLATIONS.
11. CONTRACTOR TO DESIGN AND INSTALL PIT SHORING IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTOR TO DETERMINE ACTUAL JACKING AND RECEIVING PIT DIMENSIONS. REQUIRED BORING DIRECTION IS SHOWN. ANY CHANGES TO THE PIT LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE COJ AND JEA REPRESENTATIVE.
12. PRIOR TO COMMENCING AUGER BORING, CONTRACTOR SHALL VERIFY THE DEWATERING SYSTEM IS IN PLACE AND OPERATIONAL AND THAT GROUNDWATER IS A MINIMUM OF 2 FEET BELOW THE CASING INVERT AND THE BOTTOM OF THE JACKING AND RECEIVING PITS. CONTRACTOR TO COORDINATE LOCATION OF PIEZOMETERS WITH DEWATERING PLAN. CONTRACTOR SHALL SUBMIT BASELINE READINGS OF GROUNDWATER LEVEL BEFORE BEGINNING AUGER BORING. SEE SPECIFICATIONS.
13. PRIOR TO COMMENCING AUGER BORING, CONTRACTOR SHALL INSTALL SETTLEMENT MONITORING POINTS AND SUBMIT BASELINE READINGS OF SETTLEMENT MONITORING POINT ELEVATIONS. SEE SPECIFICATIONS.
14. SETTLEMENT MONITORING POINTS AND PIEZOMETER LOCATIONS ARE APPROXIMATE. MONITORING POINTS AND PIEZOMETERS WILL BE FIELD LOCATED IN COORDINATION WITH THE JEA REPRESENTATIVE.
15. CONTRACTOR SHALL PERFORM THE AUGER BORING CONTINUOUSLY (24 HOURS A DAY/7 DAYS A WEEK) UNTIL THE CASING PIPE IS FULLY INSTALLED.

Jacobs
200 WEST FORSYTH STREET, SUITE 1520
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F:(904) 224-3102
COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSELLEG
DRAWN BY: DDHWBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

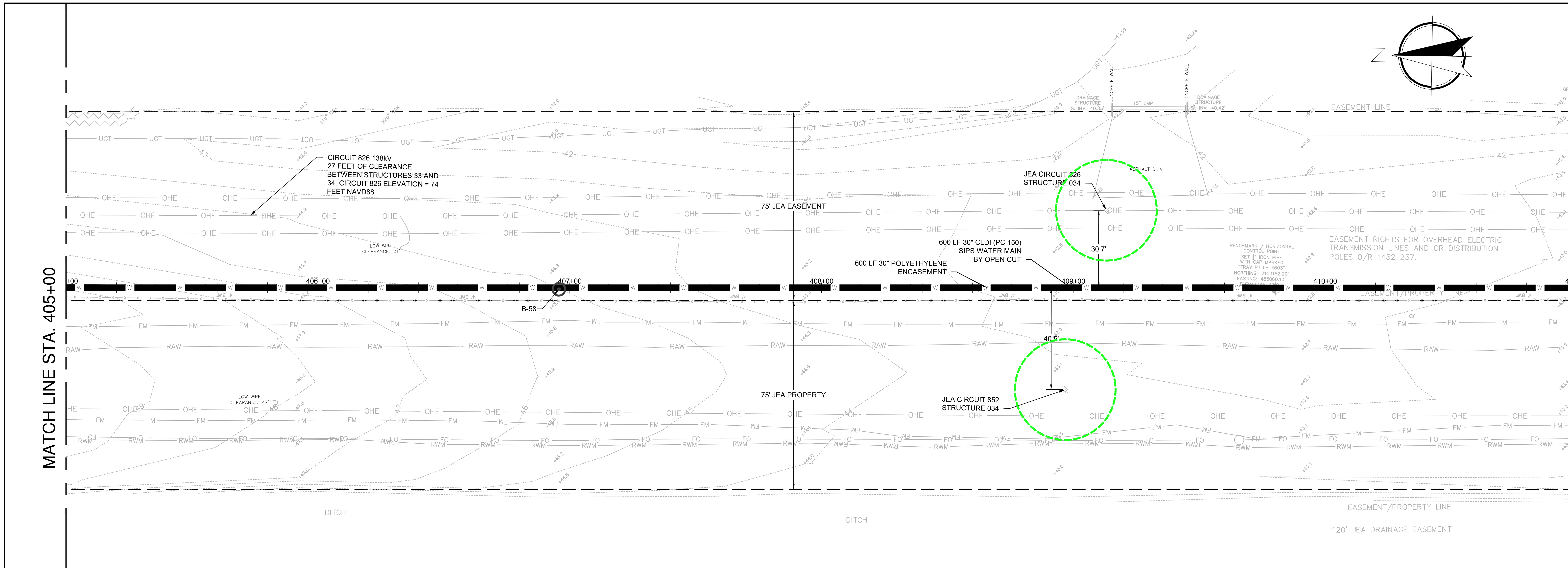
JEA Building Community

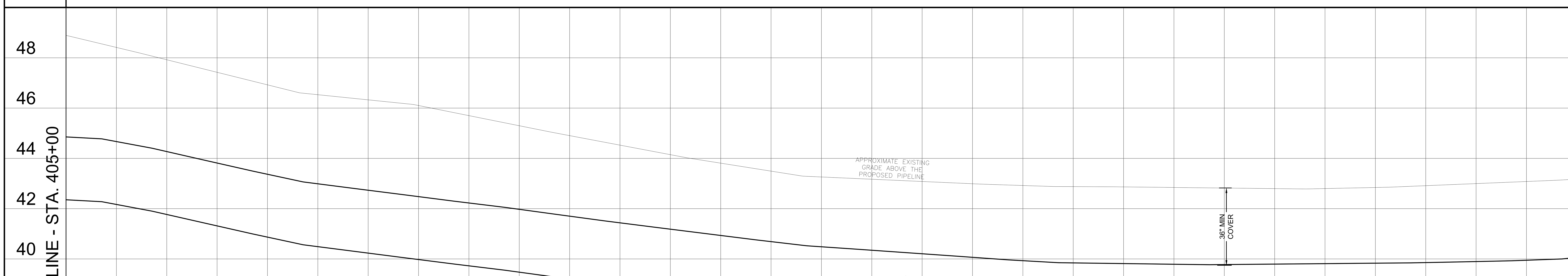
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 399+00 TO 405+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
JEA PROJ NO.: 8004887

PROJ. NO.: D3254953
DATE: MAY 2021
SCALE: AS SHOWN
NO. SHEETS: 89
SHEET NO.: 45
DRAWING NO.: C-4.01

Fri, May 28, 2021 - 00:17 Current Layout Tab = 30IN SIPS WM PLAN & PROFILE STA 399+00 TO 405+00





NOTES:

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7. SEE VOLUME II SHEETS FOR RESTORATION AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

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COA # 2822

REVISIONS

NO.	BY	DATE
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG	
DRAWN BY:	DDH/WBG	
DATE:	MAY 2021	
CHECKED BY:	CDJ	
DATE:	MAY 2021	

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 405+00 TO 411+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 46
DRAWING NO. C-4.02

Fri, May 28, 2021 - 00:18
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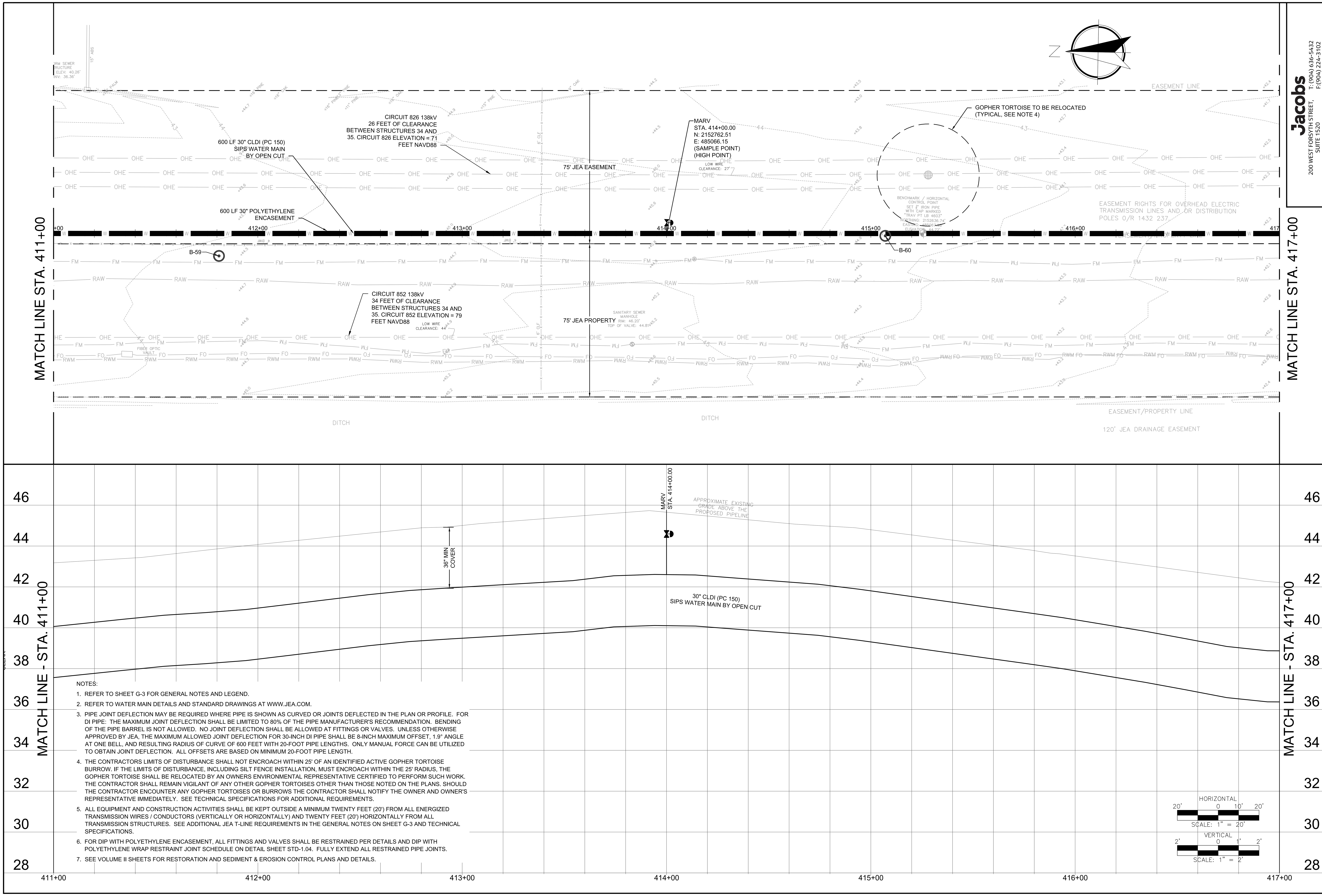

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COA # 2822

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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community℠

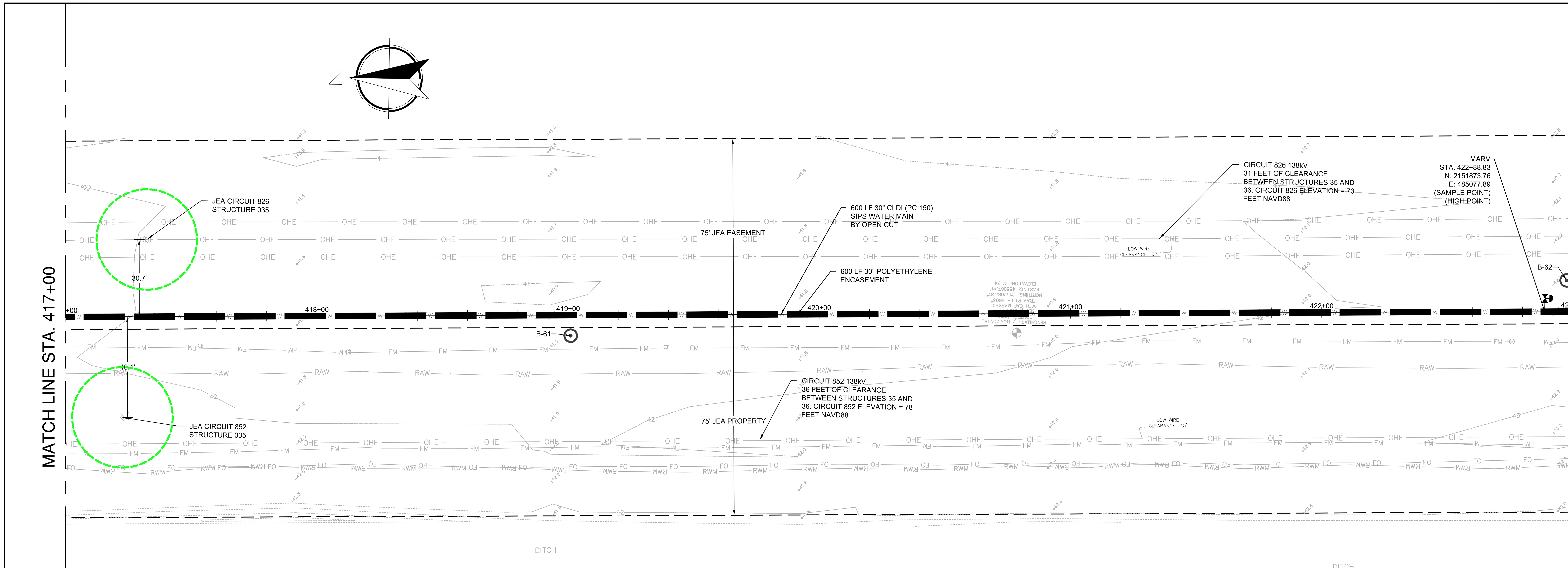
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 411+00 TO 417+00

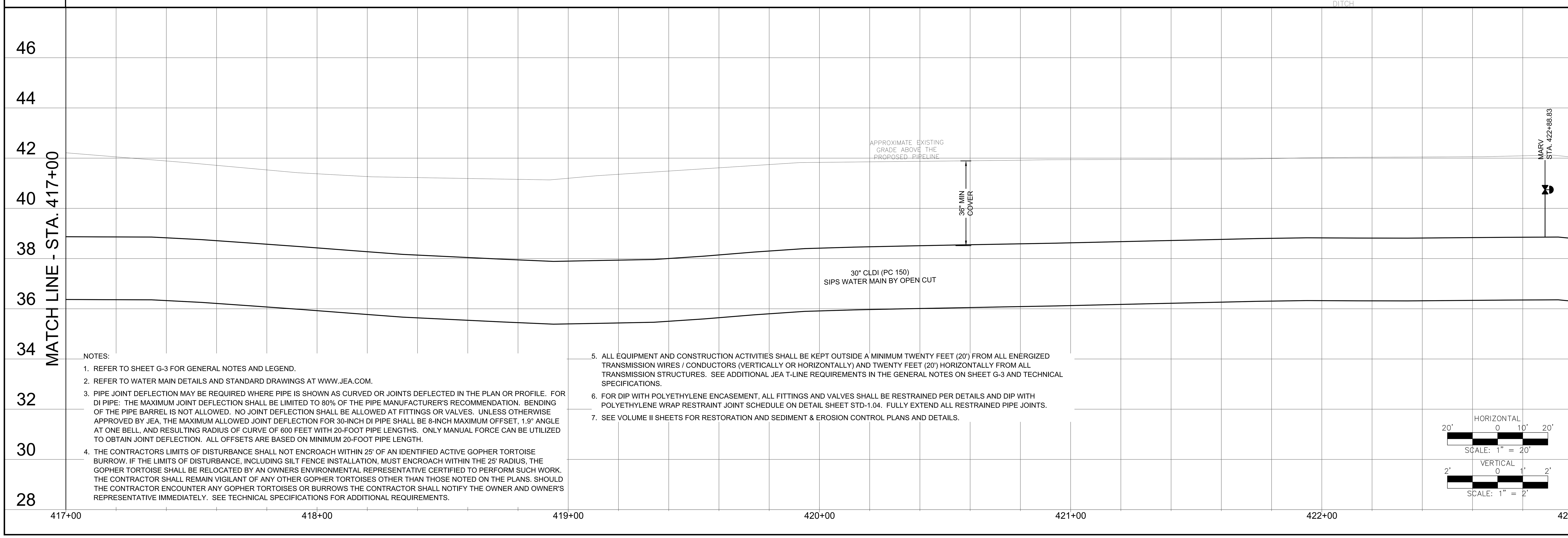
PROJ. NO.	D3254953
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS	89
SHEET NO.	47
DRAWING NO.	C-4.03

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887





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7. SEE VOLUME II SHEETS FOR RESTORATION AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

HORIZONTAL
20' 0 10' 20'
SCALE: 1" = 20'

VERTICAL
2' 0 1' 2'
SCALE: 1" = 2'

Jacobs
200 WEST FORSYTH STREET,
SUITE 1520
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COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO.
58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 417+00 TO 423+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO.	D3254953
DATE:	MAY 2021
SCALE:	AS SHOWN
NO. SHEETS	89
SHEET NO.	48
DRAWING NO.	C-4.04

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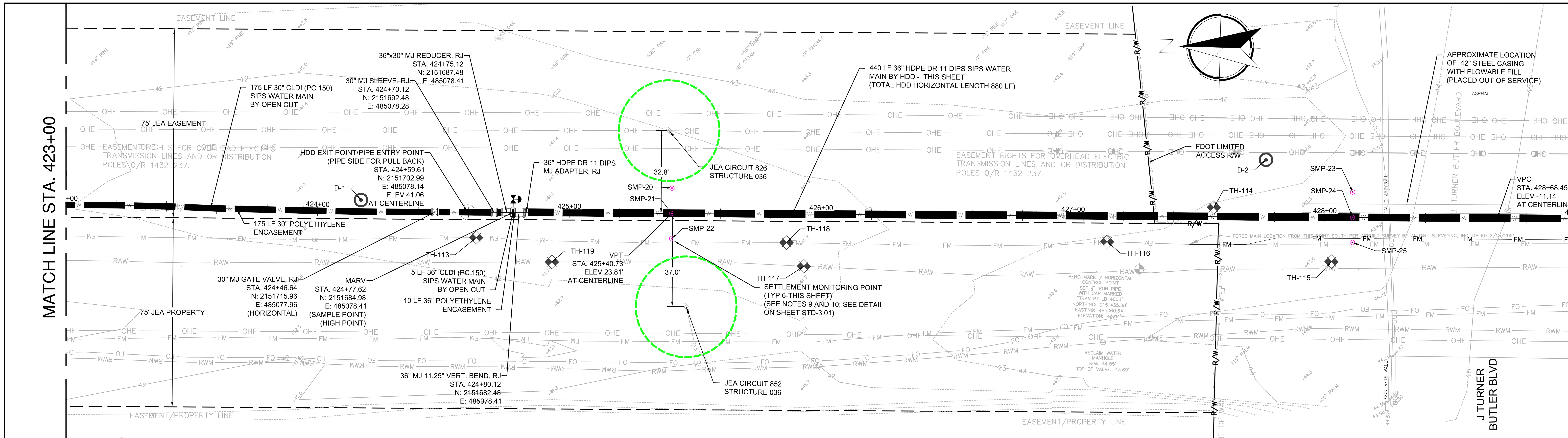

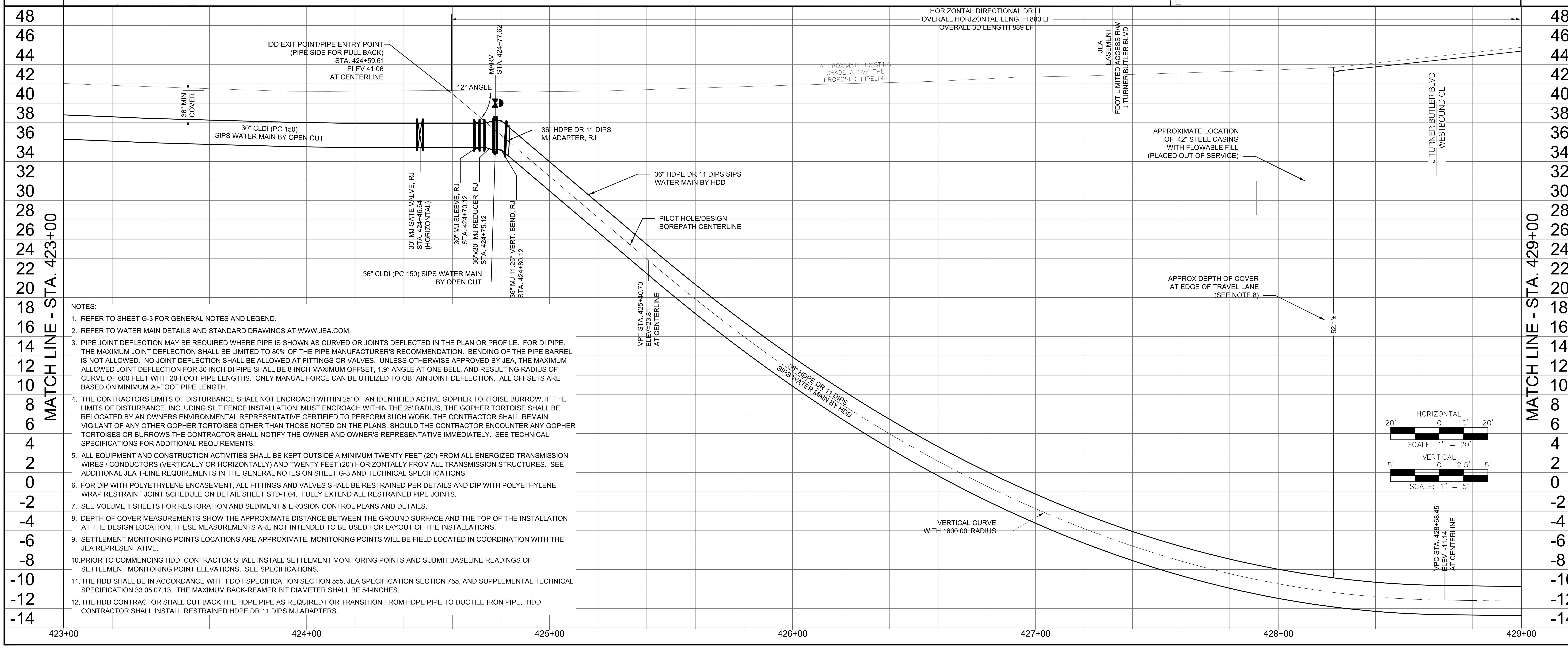

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10. PRIOR TO COMMENCING HDD, CONTRACTOR SHALL INSTALL SETTLEMENT MONITORING POINTS AND SUBMIT BASELINE READINGS OF SETTLEMENT MONITORING POINT ELEVATIONS. SEE SPECIFICATIONS.
11. THE HDD SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 555, JEA SPECIFICATION SECTION 755, AND SUPPLEMENTAL TECHNICAL SPECIFICATION 33 05 07.13. THE MAXIMUM BACK-REAMER BIT DIAMETER SHALL BE 54-INCHES.
12. THE HDD CONTRACTOR SHALL CUT BACK THE HDPE PIPE AS REQUIRED FOR TRANSITION FROM HDPE PIPE TO DUCTILE IRON PIPE. HDD CONTRACTOR SHALL INSTALL RESTRAINED HDPE DR 11 DIPS MJ ADAPTERS.

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COA # 2822

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSELBG
DRAWN BY: DDHWBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

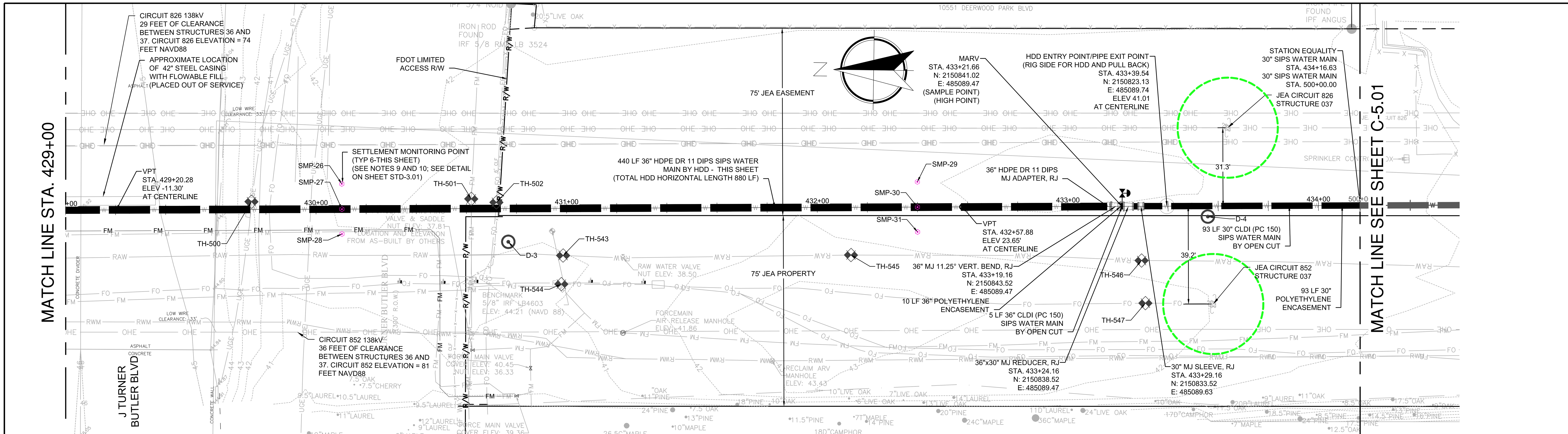
JEA Building Community

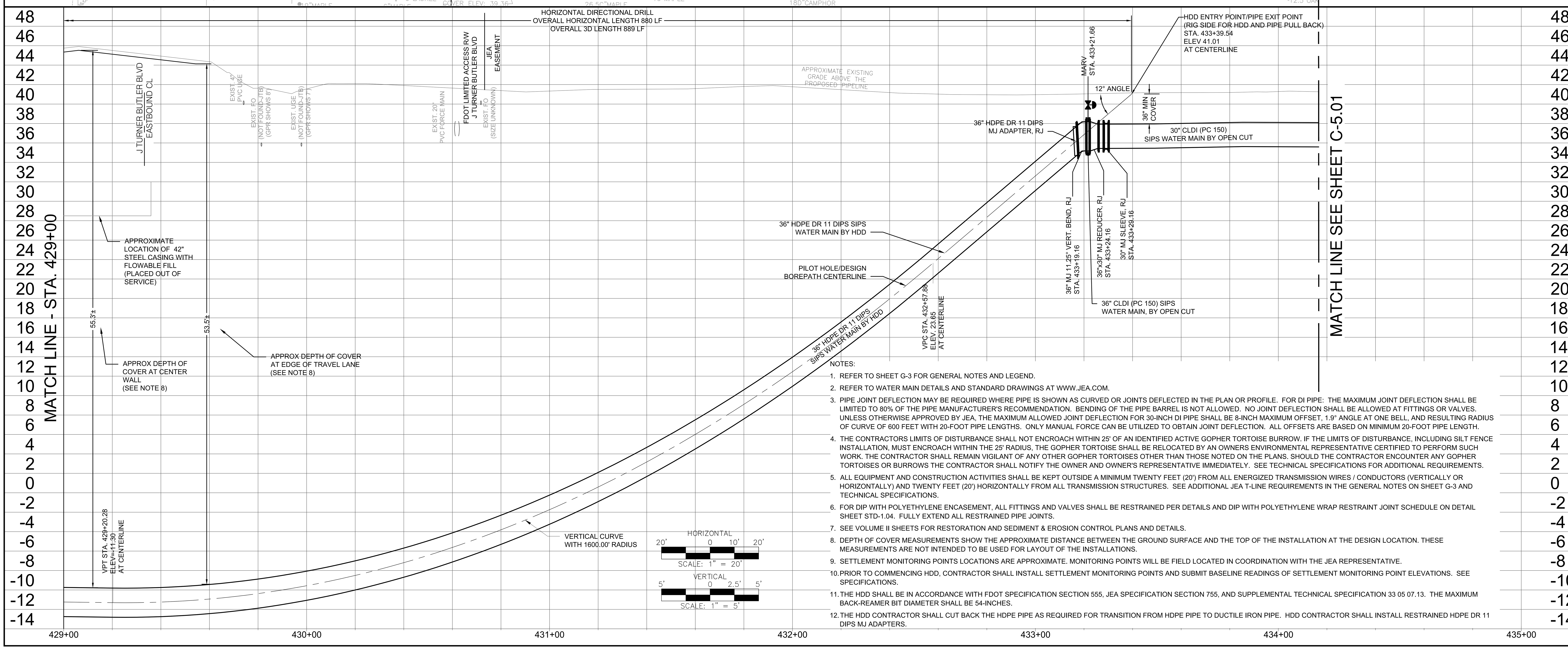
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 423+00 TO 429+00

JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN
NO. SHEETS 89
SHEET NO. 49
DRAWING NO. C-4.05





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4. THE CONTRACTORS LIMITS OF DISTURBANCE SHALL NOT ENCROACH WITHIN 25' OF AN IDENTIFIED ACTIVE GOPHER TORTOISE BURROW. IF THE LIMITS OF DISTURBANCE, INCLUDING SILT FENCE INSTALLATION, MUST ENCROACH WITHIN THE 25' RADIUS, THE GOPHER TORTOISE SHALL BE RELOCATED BY AN OWNERS ENVIRONMENTAL REPRESENTATIVE CERTIFIED TO PERFORM SUCH WORK. THE CONTRACTOR SHALL REMAIN VIGILANT OF ANY OTHER GOPHER TORTOISES OTHER THAN THOSE NOTED ON THE PLANS. SHOULD THE CONTRACTOR ENCOUNTER ANY GOPHER TORTOISES OR BURROWS THE CONTRACTOR SHALL NOTIFY THE OWNER AND OWNER'S REPRESENTATIVE IMMEDIATELY. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. ALL EQUIPMENT AND CONSTRUCTION ACTIVITIES SHALL BE KEPT OUTSIDE A MINIMUM TWENTY FEET (20') FROM ALL ENERGIZED TRANSMISSION WIRES / CONDUCTORS (VERTICALLY OR HORIZONTALLY) AND TWENTY FEET (20') HORIZONTALLY FROM ALL TRANSMISSION STRUCTURES. SEE ADDITIONAL JEA T-LINE REQUIREMENTS IN THE GENERAL NOTES ON SHEET G-3 AND TECHNICAL SPECIFICATIONS.
6. FOR DIP WITH POLYETHYLENE ENCASEMENT, ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP WITH POLYETHYLENE WRAP RESTRAINT JOINT SCHEDULE ON DETAIL SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
7. SEE VOLUME II SHEETS FOR RESTORATION AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.
8. DEPTH OF COVER MEASUREMENTS SHOW THE APPROXIMATE DISTANCE BETWEEN THE GROUND SURFACE AND THE TOP OF THE INSTALLATION AT THE DESIGN LOCATION. THESE MEASUREMENTS ARE NOT INTENDED TO BE USED FOR LAYOUT OF THE INSTALLATIONS.
9. SETTLEMENT MONITORING POINTS LOCATIONS ARE APPROXIMATE. MONITORING POINTS WILL BE FIELD LOCATED IN COORDINATION WITH THE JEA REPRESENTATIVE.
10. PRIOR TO COMMENCING HDD, CONTRACTOR SHALL INSTALL SETTLEMENT MONITORING POINTS AND SUBMIT BASELINE READINGS OF SETTLEMENT MONITORING POINT ELEVATIONS. SEE SPECIFICATIONS.
11. THE HDD SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 555, JEA SPECIFICATION SECTION 755, AND SUPPLEMENTAL TECHNICAL SPECIFICATION 33 05 07.13. THE MAXIMUM BACK-REAMER BIT DIAMETER SHALL BE 54-INCHES.
12. THE HDD CONTRACTOR SHALL CUT BACK THE HDPE PIPE AS REQUIRED FOR TRANSITION FROM HDPE PIPE TO DUCTILE IRON PIPE. HDD CONTRACTOR SHALL INSTALL RESTRAINED HDPE DR 11 DIPS MJ ADAPTERS.

Jacobs
200 WEST FORSYTH STREET, SUITE 1520
JACKSONVILLE, FL 32202
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F:(904) 224-3102
COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: GSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDU
DATE: MAY 2021

JEA Building Community

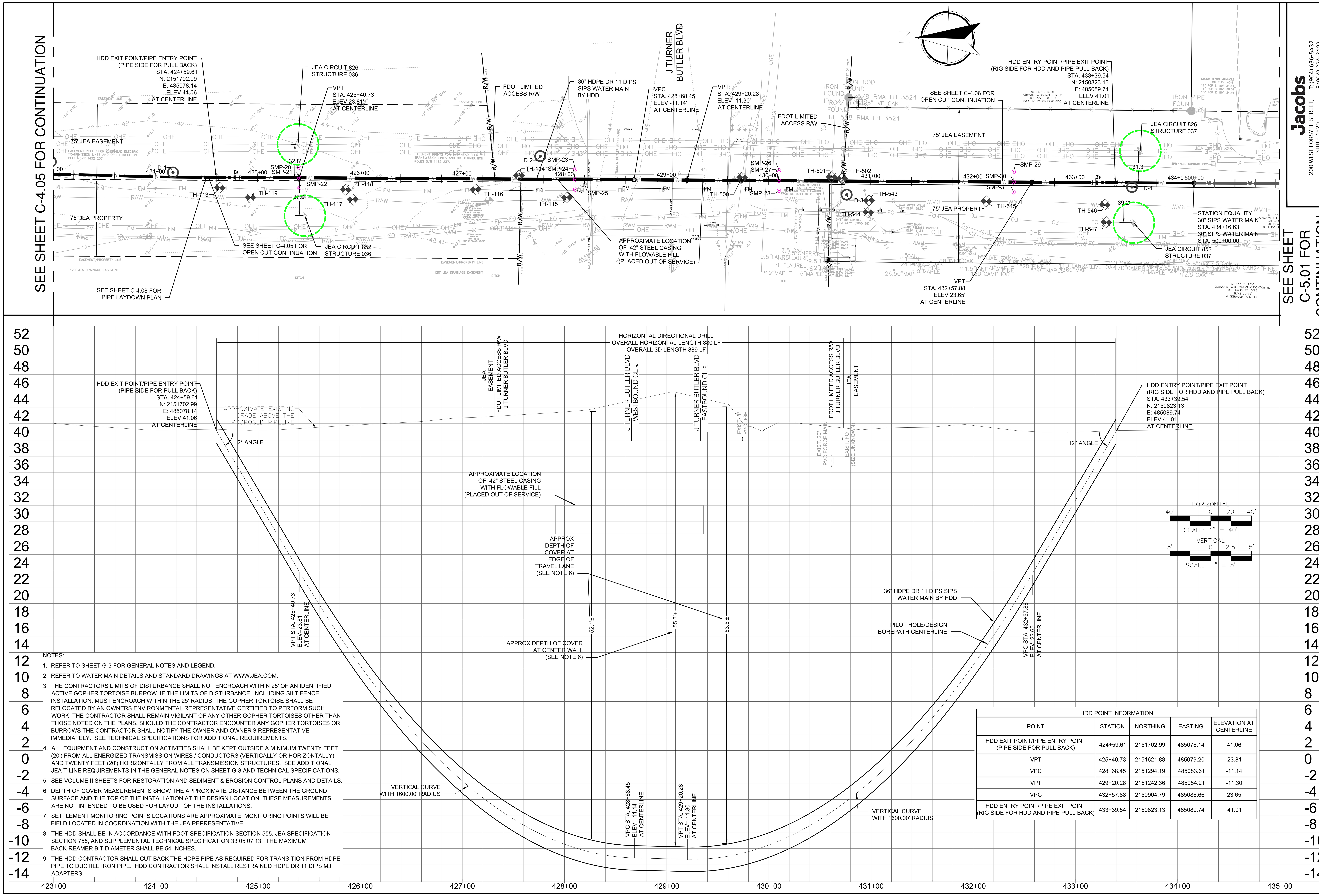
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 429+00 TO C-5.01

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 50
DRAWING NO. C-4.06



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HDD POINT INFORMATION

POINT	STATION	NORTHING	EASTING	ELEVATION AT CENTERLINE
HDD EXIT POINT/PIPE ENTRY POINT (PIPE SIDE FOR PULL BACK)	424+59.61	2151702.99	485078.14	41.06
VPT	425+40.73	2151621.88	485079.20	23.81
VPC	428+68.45	2151294.19	485083.61	-11.14
VPT	429+20.28	2151242.36	485084.21	-11.30
VPC	432+57.88	2150904.79	485088.66	23.65
HDD ENTRY POINT/PIPE EXIT POINT (RIG SIDE FOR HDD AND PIPE PULL BACK)	433+39.54	2150823.13	485089.74	41.01

Jacobs
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T:(904) 636-5432
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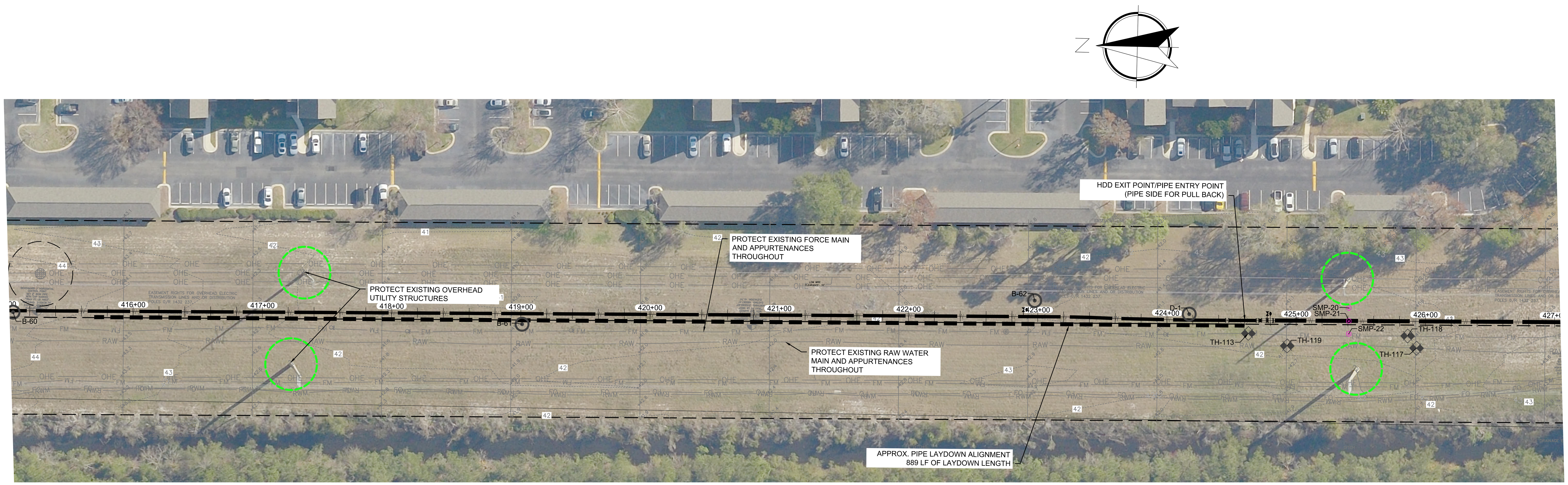
COA # 2822
DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418
DESIGNER: CSELBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
SIPS WM JTB HDD - OVERALL PLAN AND PROFILE

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN
NO. SHEETS 89
SHEET NO. 51
DRAWING NO. C-4.07



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5. CONTRACTOR SHALL EXERCISE CAUTION DURING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR RESTORING SURFACE FEATURES THAT MAY BE DISTURBED DUE TO CONSTRUCTION.
6. CONTRACTOR TO GRADE AND LEVEL WORK AREA FOR PIPE STRINGING AND ASSEMBLY AS REQUIRED. PIPE STRINGING AND ASSEMBLY SHALL BE CONFINED TO THE JEA T-LINE, UNLESS OTHERWISE AUTHORIZED BY JEA. ALL DISTURBED AREAS SHALL BE RESTORED TO EXISTING GRADE AND ORIGINAL CONDITION.
7. SEE VOLUME II SHEETS FOR RESTORATION AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

HORIZONTAL
40' 0 20' 40'
SCALE: 1" = 40'

Jacobs
200 WEST FORSYTH STREET, SUITE 1520
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T:(904) 636-5432
F:(904) 224-3102
COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO.
58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community sm

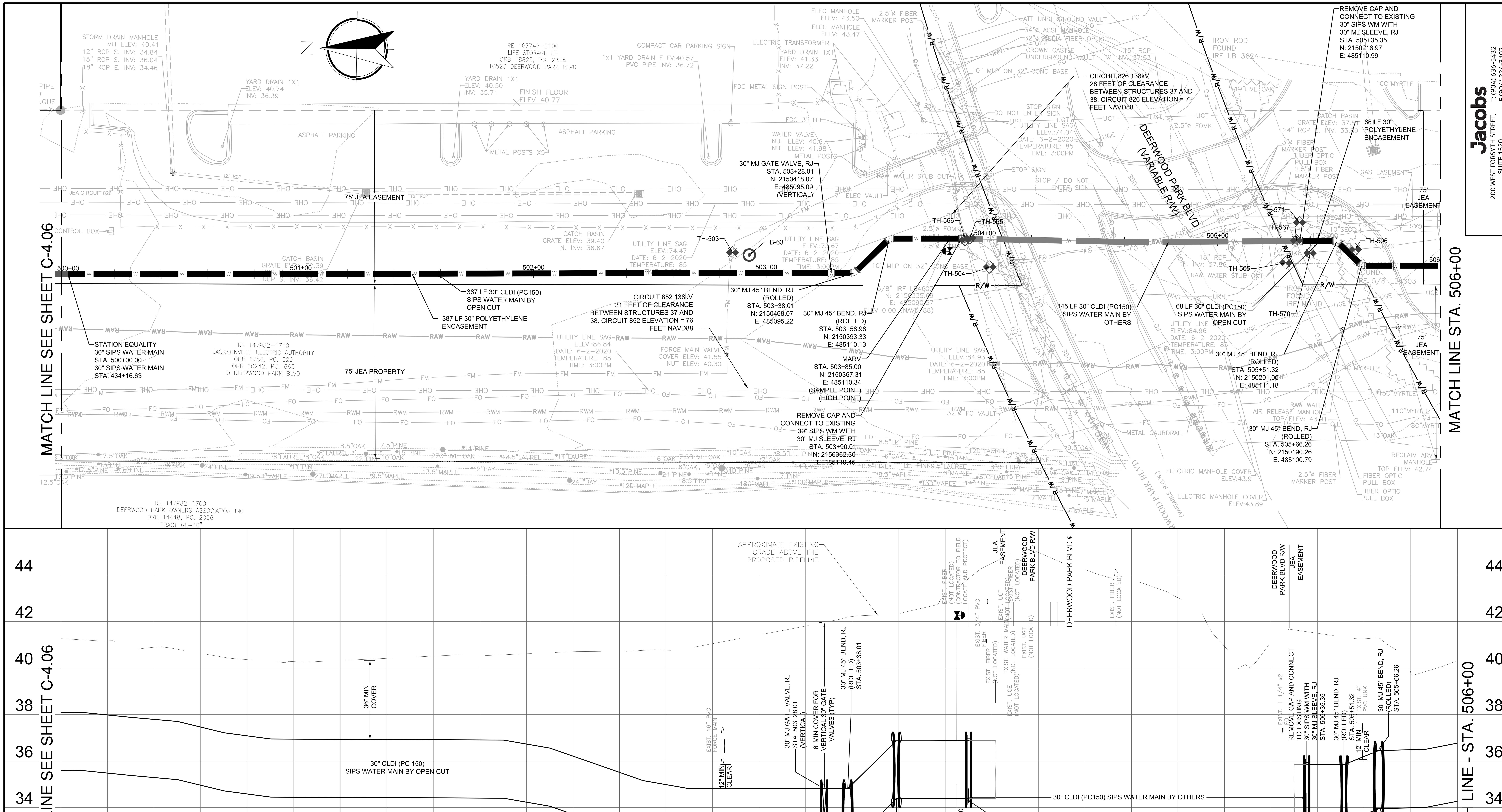
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
SIPS WM JTB HDD - PIPE LAYDOWN PLAN

PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS 89
SHEET NO. 52
DRAWING NO. C-4.08

JEA PROJ NO.: 8004887
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

C:\pwworking\jacobs_b&i\hilldd\d0228455\P-D32549S3-STA300-400-21-End.dwg Current Layout Tab = SIPS WM JTB HDD - PIPE LAYDOWN PLAN Fri May 28, 2021 - 00:26



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Jacobs
200 WEST FORSYTH STREET, SUITE 1520
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COA # 2822

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSELBG	
DRAWN BY:	DDHWBG	
DATE:	MAY 2021	
CHECKED BY:	CDJ	
DATE:	MAY 2021	

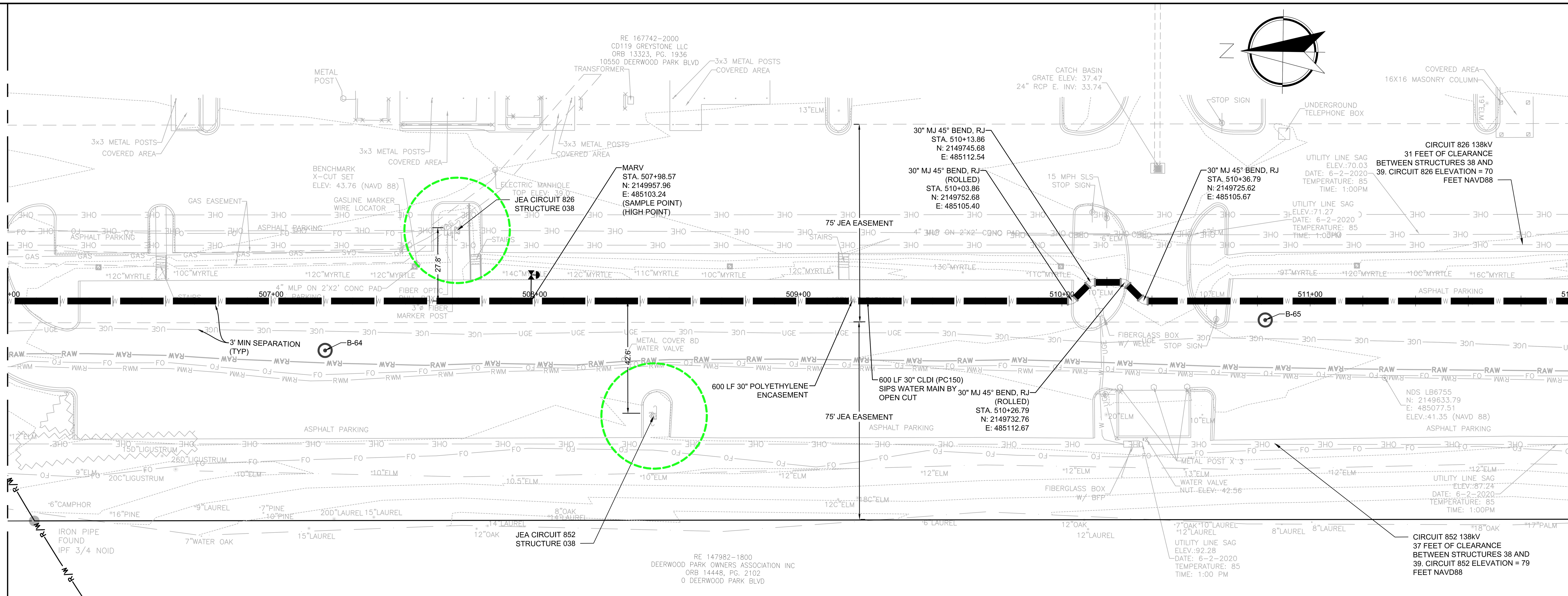
JEA Building Community

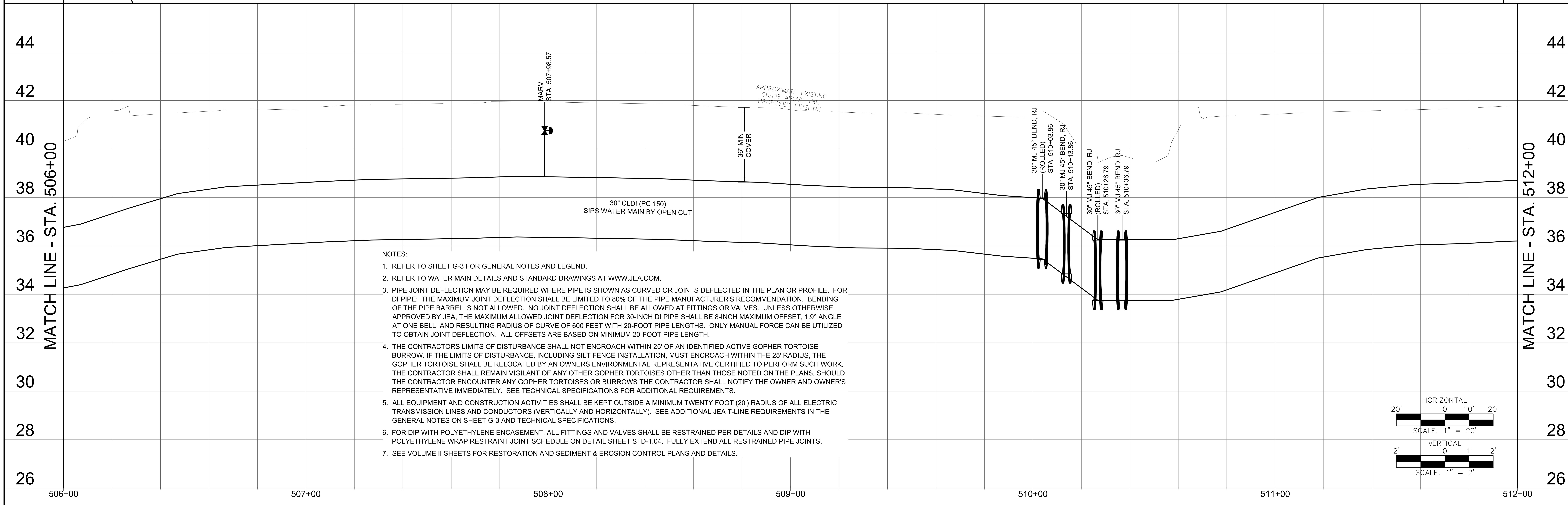
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 500+00 TO 506+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO.	D3254953
DATE:	MAY 2021
SCALE:	AS SHOWN
NO. SHEETS	89
SHEET NO.	53
DRAWING NO.	C-5.01





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HORIZONTAL
SCALE: 1" = 20'

VERTICAL
SCALE: 1" = 2'

Jacobs
200 WEST FORSYTH STREET, SUITE 1520
JACKSONVILLE, FL 32202
T:(904) 636-5432
F:(904) 224-3102
COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDU
DATE: MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 506+00 TO 512+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN
NO. SHEETS 89
SHEET NO. 54
DRAWING NO. C-5.02

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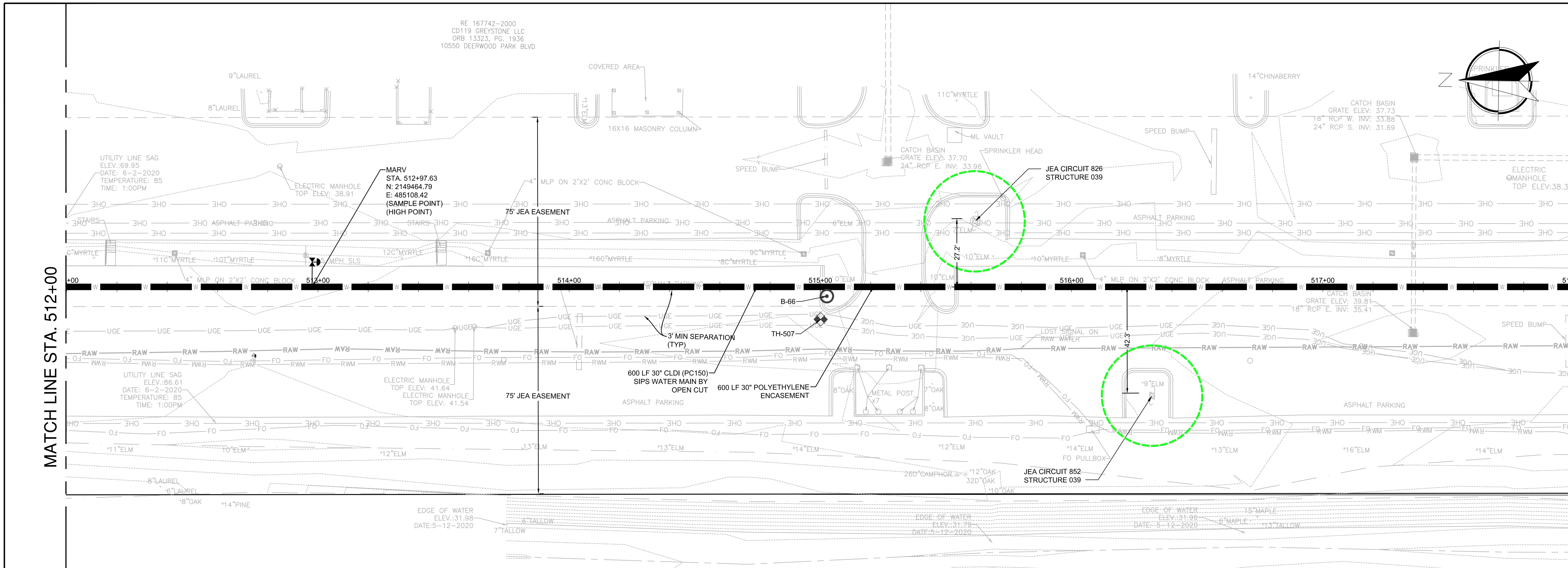

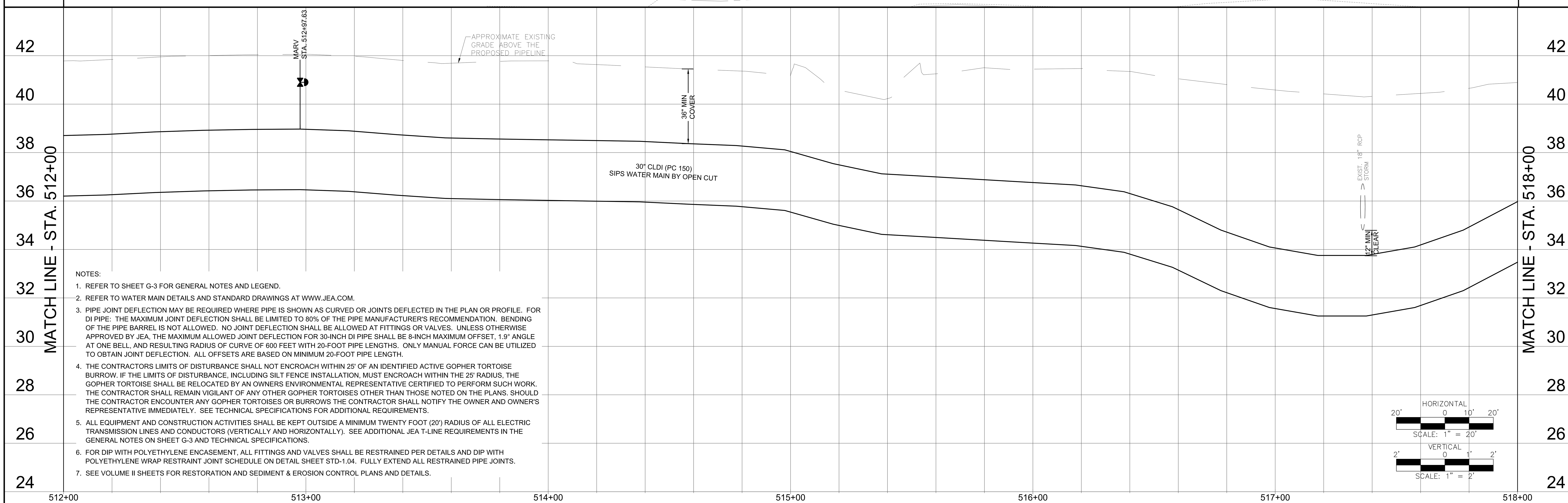

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Jacobs
200 WEST FORSYTH STREET, SUITE 1520
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F:(904) 224-3102
COA # 2822

NO.	DATE	BY	REVISIONS
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG	
DRAWN BY:	DDH/WBG	
DATE:	MAY 2021	
CHECKED BY:	CDJ	
DATE:	MAY 2021	

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 512+00 TO 518+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 55
DRAWING NO. C-5.03

Fri May 28, 2021 - 09:32

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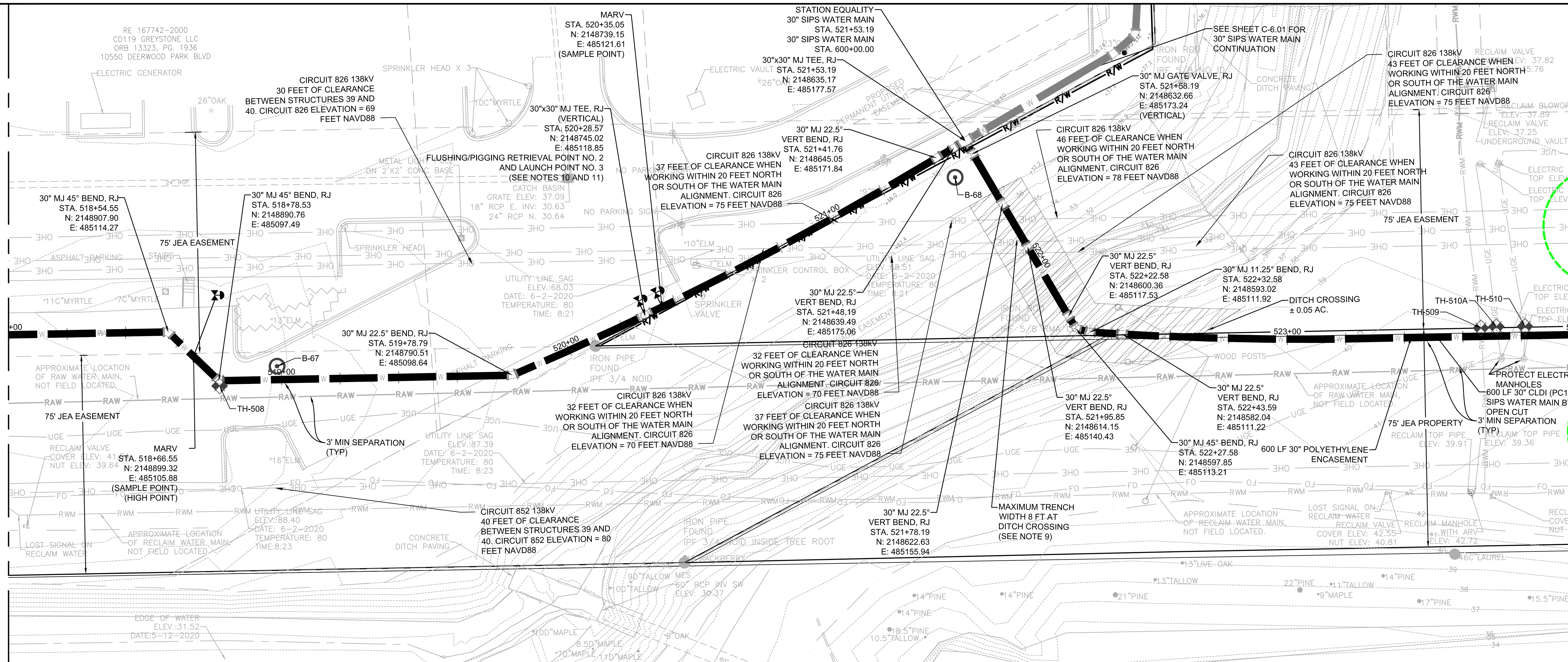

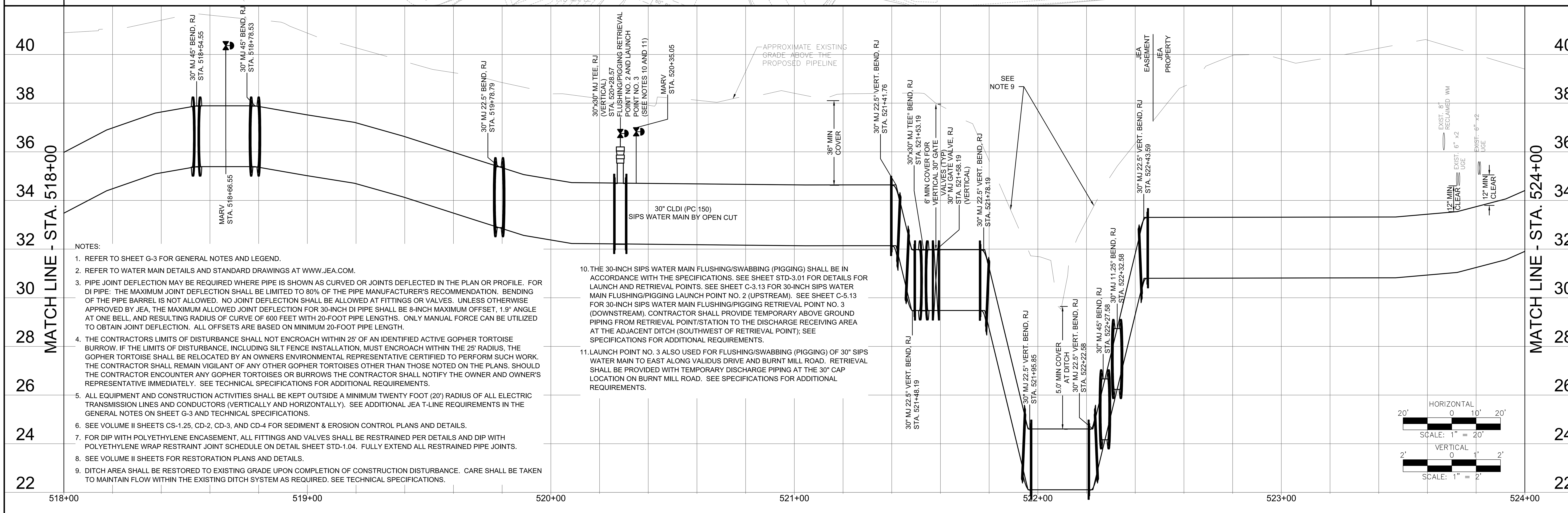

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4. THE CONTRACTORS LIMITS OF DISTURBANCE SHALL NOT ENCROACH WITHIN 25' OF AN IDENTIFIED ACTIVE GOPHER TORTOISE BURROW. IF THE LIMITS OF DISTURBANCE, INCLUDING SILT FENCE INSTALLATION, MUST ENCROACH WITHIN THE 25' RADIUS, THE GOPHER TORTOISE SHALL BE RELOCATED BY AN OWNERS ENVIRONMENTAL REPRESENTATIVE CERTIFIED TO PERFORM SUCH WORK. THE CONTRACTOR SHALL REMAIN VIGILANT OF ANY OTHER GOPHER TORTOISES OTHER THAN THOSE NOTED ON THE PLANS. SHOULD THE CONTRACTOR ENCOUNTER ANY GOPHER TORTOISES OR BURROWS THE CONTRACTOR SHALL NOTIFY THE OWNER AND OWNER'S REPRESENTATIVE IMMEDIATELY. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. ALL EQUIPMENT AND CONSTRUCTION ACTIVITIES SHALL BE KEPT OUTSIDE A MINIMUM TWENTY FOOT (20') RADIUS OF ALL ELECTRIC TRANSMISSION LINES AND CONDUCTORS (VERTICALLY AND HORIZONTALLY). SEE ADDITIONAL JEA T-LINE REQUIREMENTS IN THE GENERAL NOTES ON SHEET G-3 AND TECHNICAL SPECIFICATIONS.
6. SEE VOLUME II SHEETS CS-1.25, CD-2, CD-3, AND CD-4 FOR SEDIMENT & EROSION CONTROL PLANS AND DETAILS.
7. FOR DIP WITH POLYETHYLENE ENCASEMENT, ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP WITH POLYETHYLENE WRAP RESTRAINT JOINT SCHEDULE ON DETAIL SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
8. SEE VOLUME II SHEETS FOR RESTORATION PLANS AND DETAILS.
9. DITCH AREA SHALL BE RESTORED TO EXISTING GRADE UPON COMPLETION OF CONSTRUCTION DISTURBANCE. CARE SHALL BE TAKEN TO MAINTAIN FLOW WITHIN THE EXISTING DITCH SYSTEM AS REQUIRED. SEE TECHNICAL SPECIFICATIONS.
10. THE 30-INCH SIPS WATER MAIN FLUSHING/SWABBING (PIGGING) SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. SEE SHEET STD-3.01 FOR DETAILS FOR LAUNCH AND RETRIEVAL POINTS. SEE SHEET C-3.13 FOR 30-INCH SIPS WATER MAIN FLUSHING/PIGGING LAUNCH POINT NO. 2 (UPSTREAM). SEE SHEET C-5.13 FOR 30-INCH SIPS WATER MAIN FLUSHING/PIGGING RETRIEVAL POINT NO. 3 (DOWNSTREAM). CONTRACTOR SHALL PROVIDE TEMPORARY ABOVE GROUND PIPING FROM RETRIEVAL POINT/STATION TO THE DISCHARGE RECEIVING AREA AT THE ADJACENT DITCH (SOUTHWEST OF RETRIEVAL POINT); SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
11. LAUNCH POINT NO. 3 ALSO USED FOR FLUSHING/SWABBING (PIGGING) OF 30" SIPS WATER MAIN TO EAST ALONG VALIDUS DRIVE AND BURNT MILL ROAD. RETRIEVAL SHALL BE PROVIDED WITH TEMPORARY DISCHARGE PIPING AT THE 30" CAP LOCATION ON BURNT MILL ROAD. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

HORIZONTAL
20' 0 10' 20'
SCALE: 1" = 20'

VERTICAL
2' 0 1' 2'
SCALE: 1" = 2'

Jacobs
200 WEST FORSYTH STREET,
SUITE 1520
JACKSONVILLE, FL 32202
T:(904) 636-5432
F:(904) 224-3102
COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG	
DRAWN BY:	DDH/WBG	
DATE:	MAY 2021	
CHECKED BY:	CDJ	
DATE:	MAY 2021	

JEA Building Community

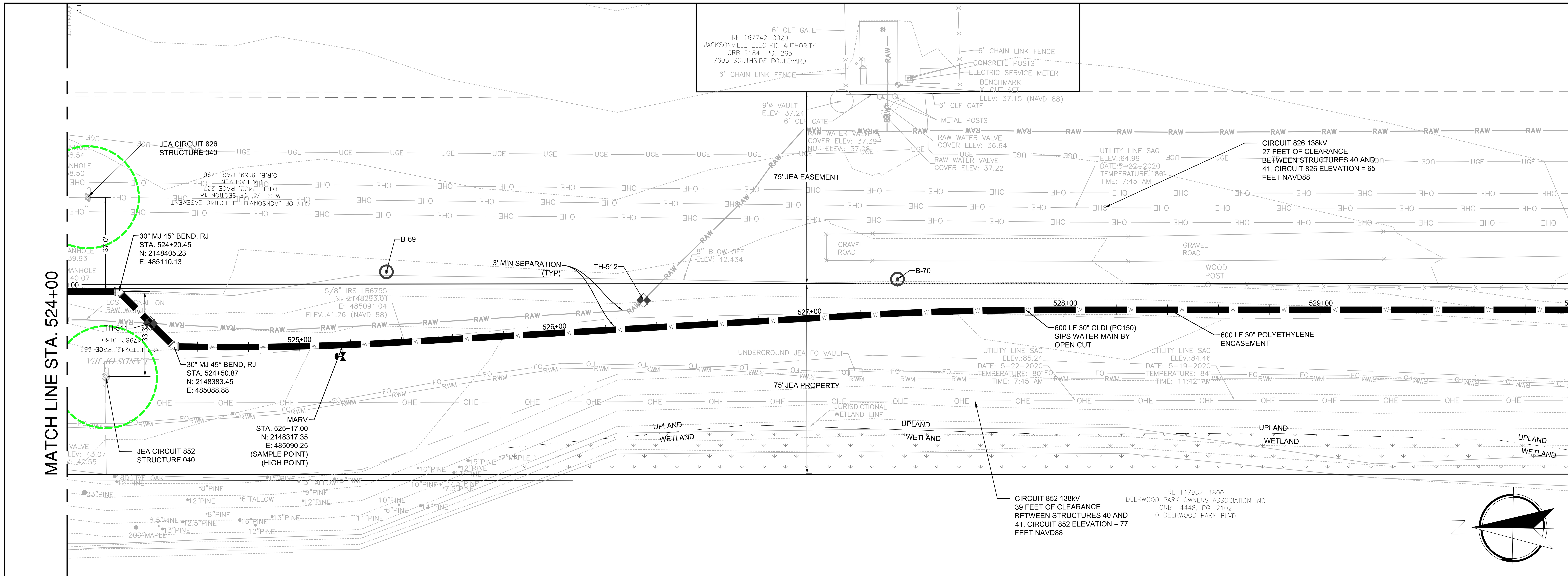
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 518+00 TO 524+00

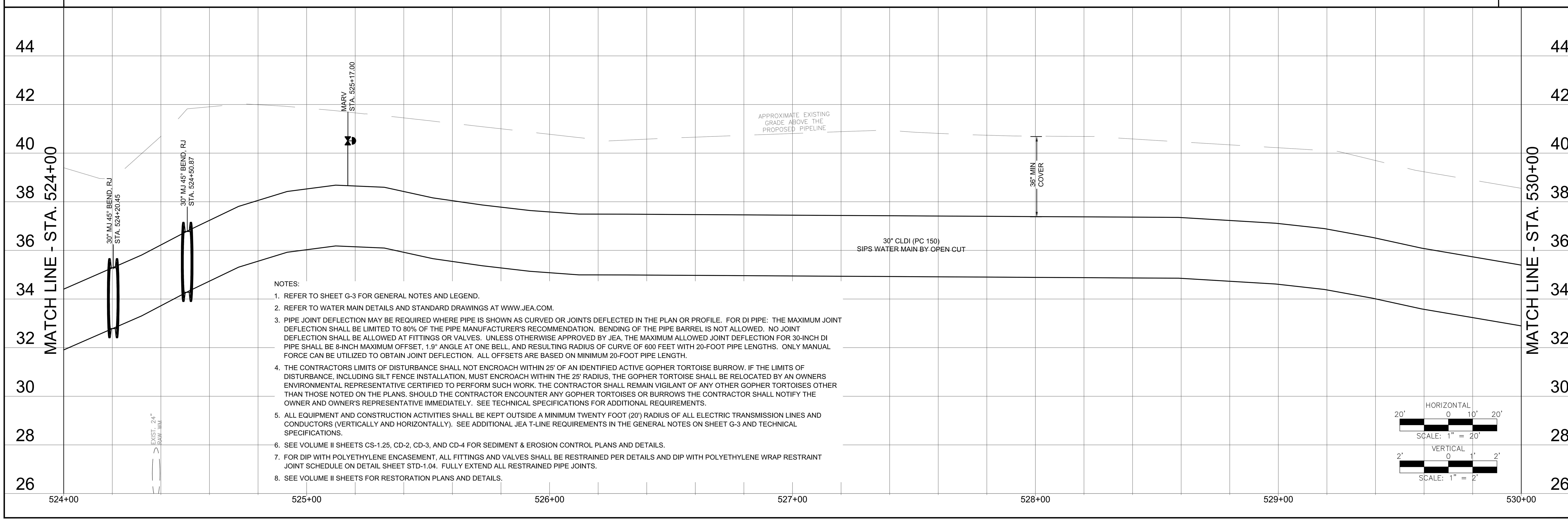
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
JEA PROJ NO.: 8004887

PROJ. NO.	D3254953
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS 89
SHEET NO. 56
DRAWING NO. C-5.04

C:\pwworking\jacobs_b&i\hilldd\d0228455\P-D3254953-STA500-1-5.dwg Current Layout Tab = 30IN SIPS WM PLAN & PROFILE STA 518+00 TO 524+00 Fri May 28, 2021 - 09:33





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Jacobs
200 WEST FORSYTH STREET, SUITE 1520
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F:(904) 224-3102
COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

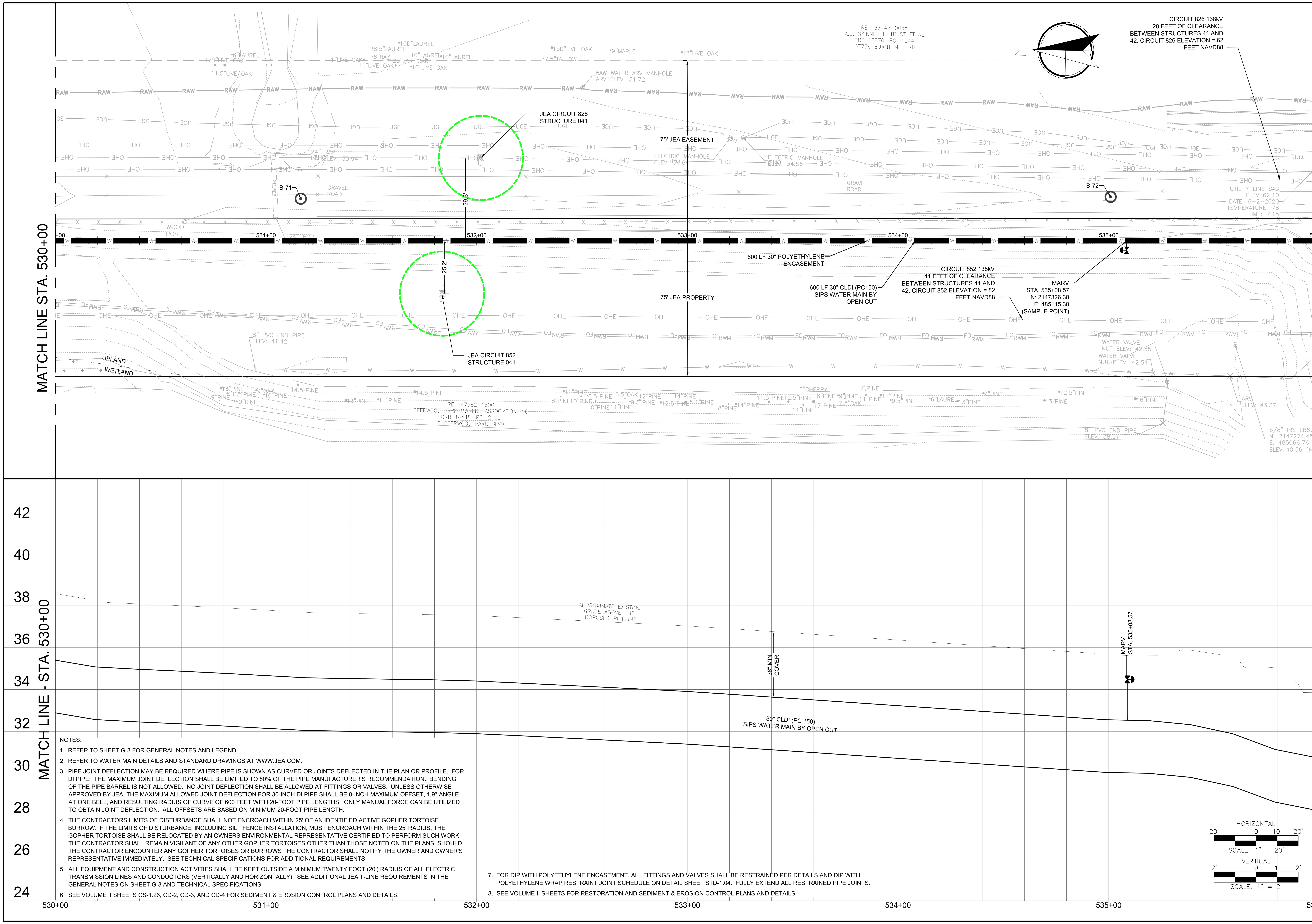
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 524+00 TO 530+00

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 57
DRAWING NO. C-5.05



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COA # 2822

REVISIONS

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: GSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDU
DATE: MAY 2021

JEA Building Community

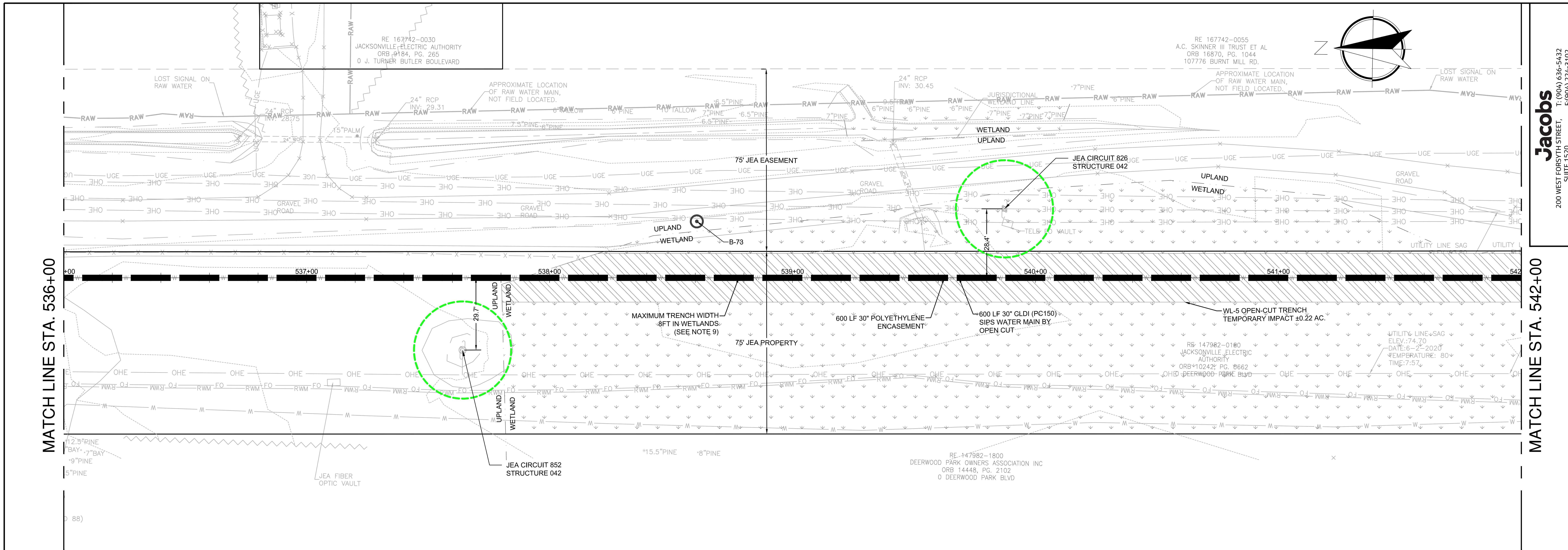
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 530+00 TO 536+00

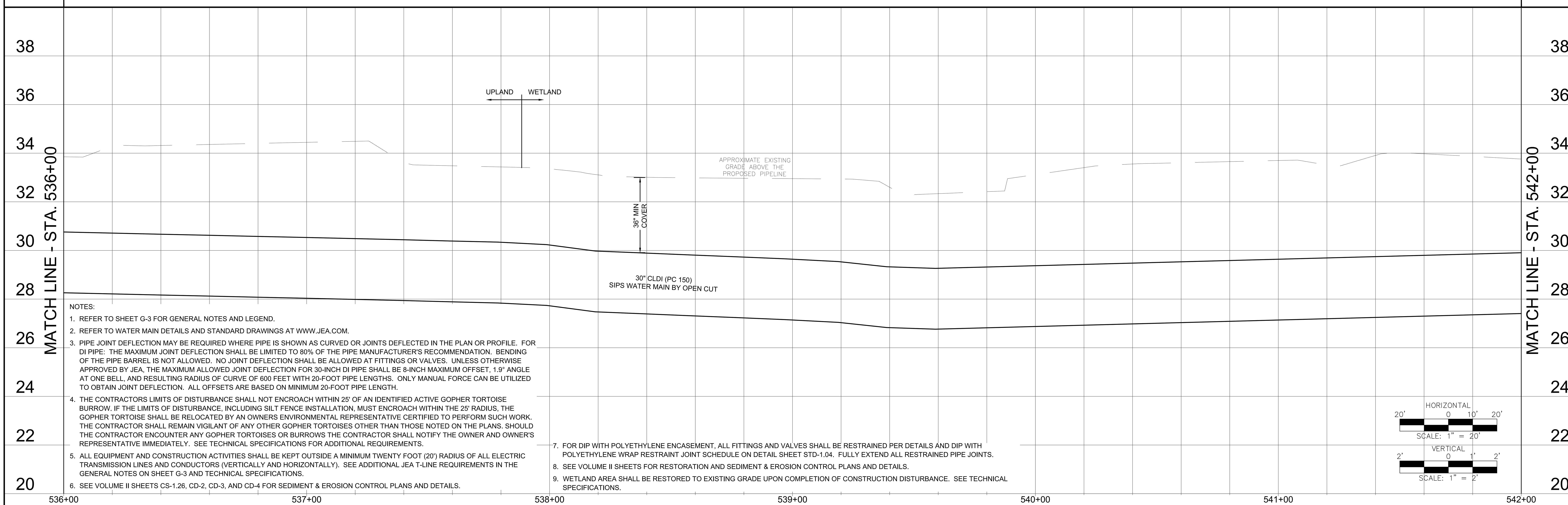
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 58
DRAWING NO. C-5.06





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9. WETLAND AREA SHALL BE RESTORED TO EXISTING GRADE UPON COMPLETION OF CONSTRUCTION DISTURBANCE. SEE TECHNICAL SPECIFICATIONS.

Jacobs
200 WEST FORSYTH STREET, SUITE 1520
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COA # 2822

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG	
DRAWN BY:	DDH/WBG	
DATE:	MAY 2021	
CHECKED BY:	CDJ	
DATE:	MAY 2021	

JEA Building Community

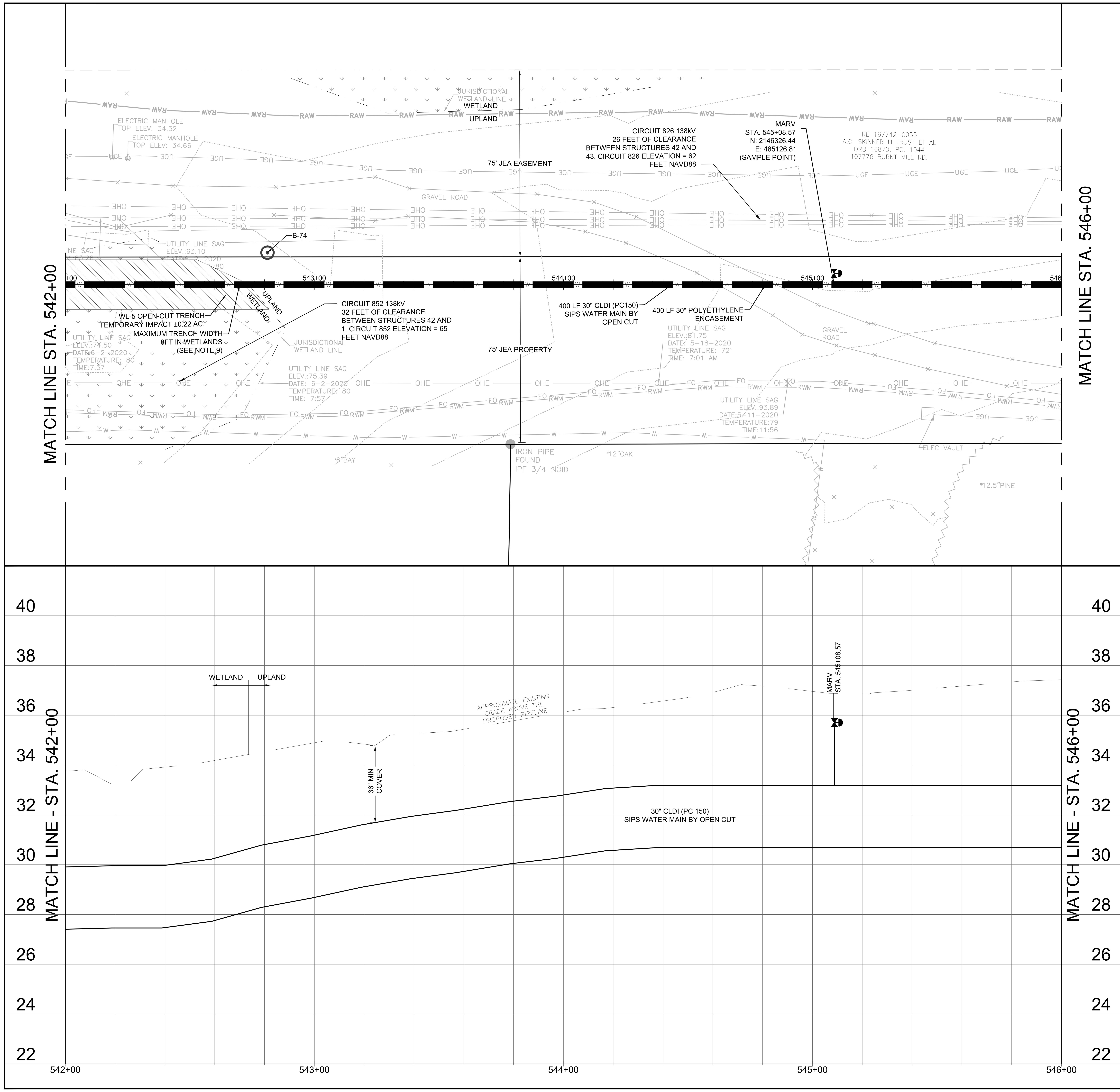
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 536+00 TO 542+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 59
DRAWING NO. C-5.07



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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 542+00 TO 546+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS 89
SHEET NO. 60
DRAWING NO. C-5.08

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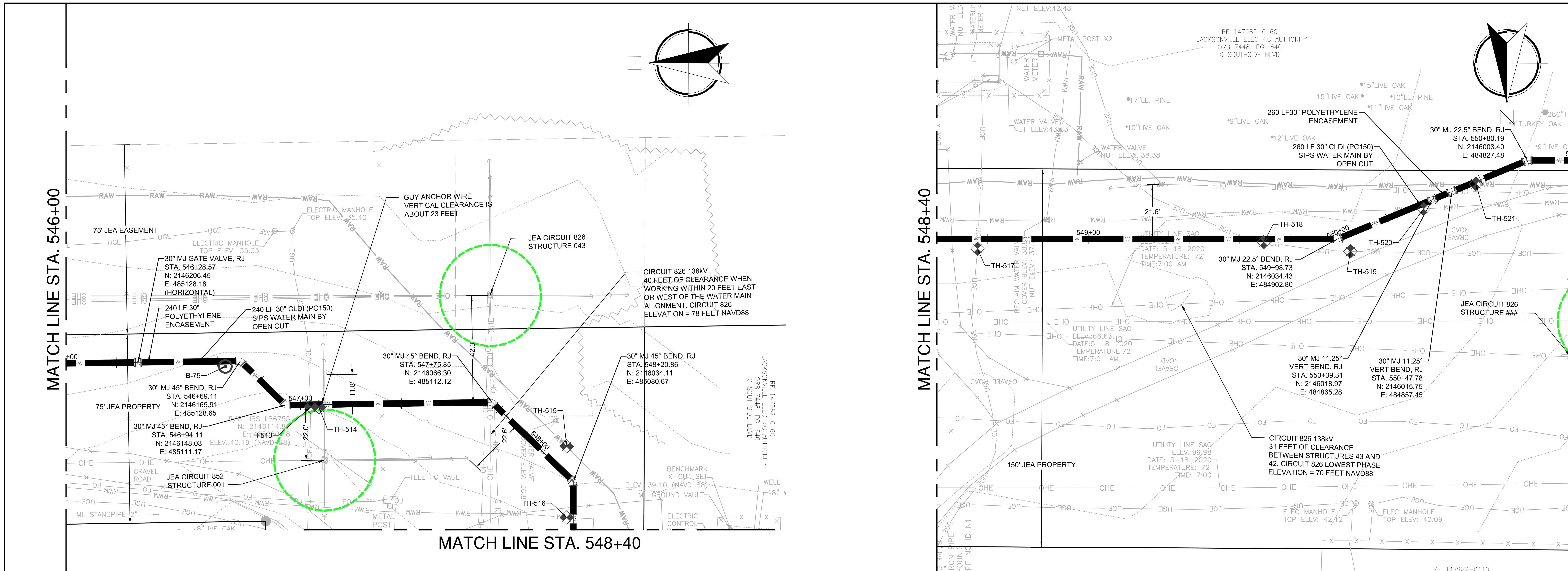

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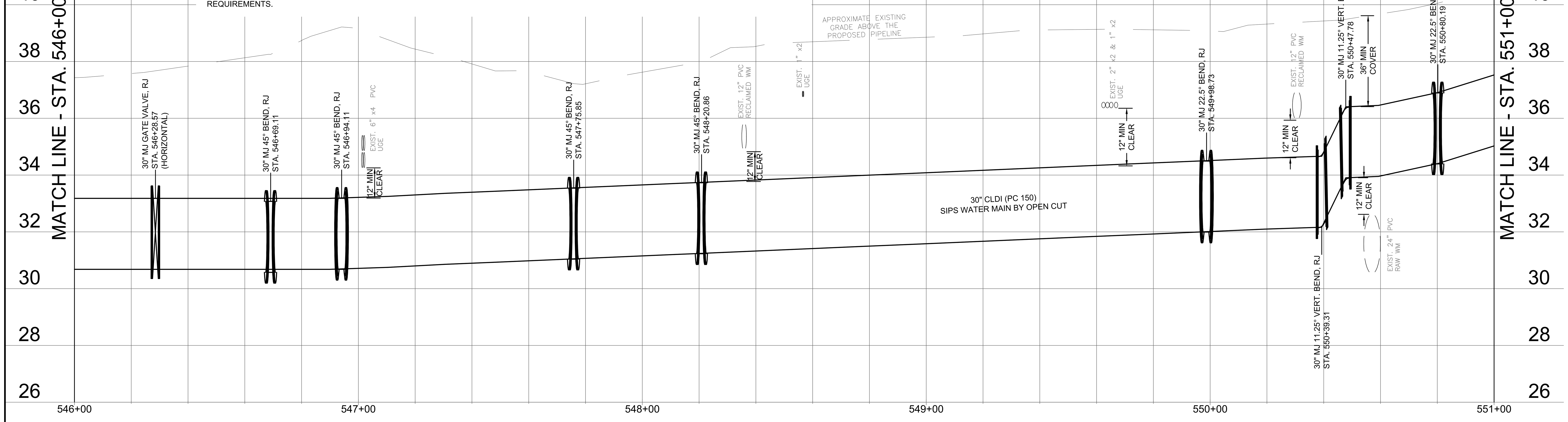

HORIZONTAL
SCALE: 1" = 20'

VERTICAL
SCALE: 1" = 2'

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSELBG
DRAWN BY: DDHWBG
DATE: MAY 2021
CHECKED BY: CDU
DATE: MAY 2021

JEA Building Community

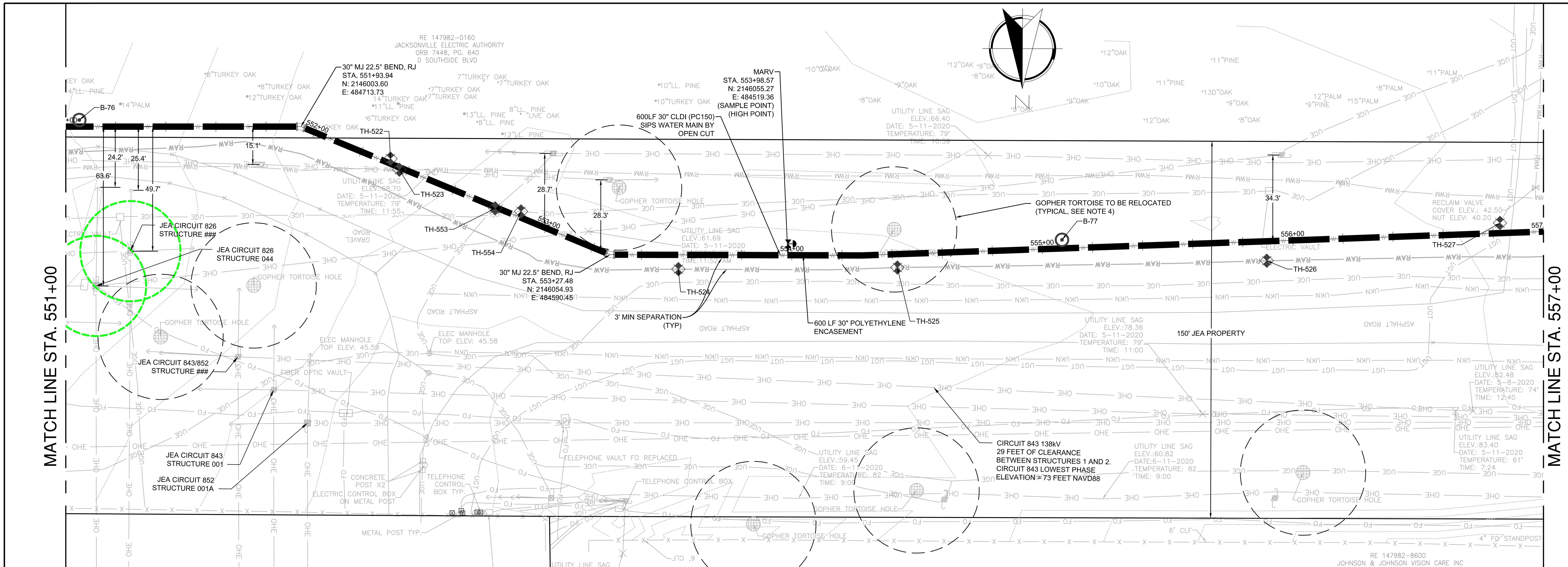
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 546+00 TO 551+00

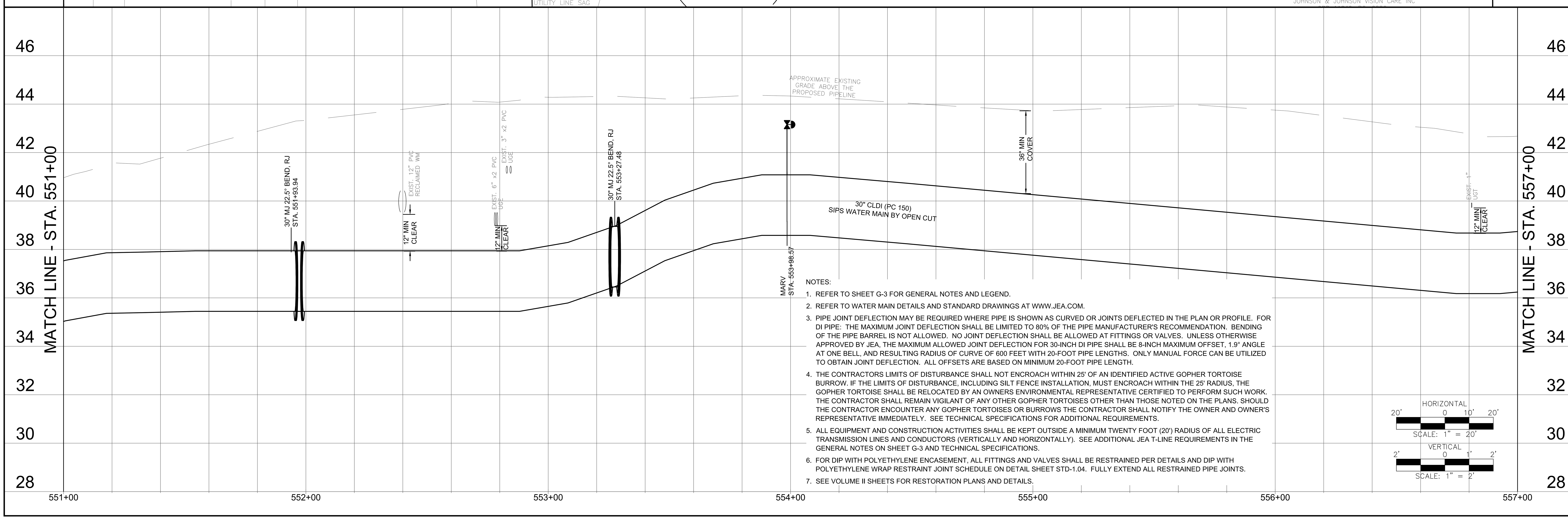
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 61
DRAWING NO. C-5.09





NOTES:

1. REFER TO SHEET G-3 FOR GENERAL NOTES AND LEGEND.
2. REFER TO WATER MAIN DETAILS AND STANDARD DRAWINGS AT WWW.JEA.COM.
3. PIPE JOINT DEFLECTION MAY BE REQUIRED WHERE PIPE IS SHOWN AS CURVED OR JOINTS DEFLECTED IN THE PLAN OR PROFILE. FOR DI PIPE: THE MAXIMUM JOINT DEFLECTION SHALL BE LIMITED TO 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION. BENDING OF THE PIPE BARREL IS NOT ALLOWED. NO JOINT DEFLECTION SHALL BE ALLOWED AT FITTINGS OR VALVES. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ALLOWED JOINT DEFLECTION FOR 30-INCH DI PIPE SHALL BE 8-INCH MAXIMUM OFFSET, 1.9° ANGLE AT ONE BELL, AND RESULTING RADIUS OF CURVE OF 600 FEET WITH 20-FOOT PIPE LENGTHS. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20-FOOT PIPE LENGTH.
4. THE CONTRACTORS LIMITS OF DISTURBANCE SHALL NOT ENCROACH WITHIN 25' OF AN IDENTIFIED ACTIVE GOPHER TORTOISE BURROW. IF THE LIMITS OF DISTURBANCE, INCLUDING SILT FENCE INSTALLATION, MUST ENCROACH WITHIN THE 25' RADIUS, THE GOPHER TORTOISE SHALL BE RELOCATED BY AN OWNERS ENVIRONMENTAL REPRESENTATIVE CERTIFIED TO PERFORM SUCH WORK. THE CONTRACTOR SHALL REMAIN VIGILANT OF ANY OTHER GOPHER TORTOISES OTHER THAN THOSE NOTED ON THE PLANS. SHOULD THE CONTRACTOR ENCOUNTER ANY GOPHER TORTOISES OR BURROWS THE CONTRACTOR SHALL NOTIFY THE OWNER AND OWNER'S REPRESENTATIVE IMMEDIATELY. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. ALL EQUIPMENT AND CONSTRUCTION ACTIVITIES SHALL BE KEPT OUTSIDE A MINIMUM TWENTY FOOT (20') RADIUS OF ALL ELECTRIC TRANSMISSION LINES AND CONDUCTORS (VERTICALLY AND HORIZONTALLY). SEE ADDITIONAL JEA T-LINE REQUIREMENTS IN THE GENERAL NOTES ON SHEET G-3 AND TECHNICAL SPECIFICATIONS.
6. FOR DIP WITH POLYETHYLENE ENCASEMENT, ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP WITH POLYETHYLENE WRAP RESTRAINT JOINT SCHEDULE ON DETAIL SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
7. SEE VOLUME II SHEETS FOR RESTORATION PLANS AND DETAILS.

Jacobs
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COA # 2822

DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 551+00 TO 557+00

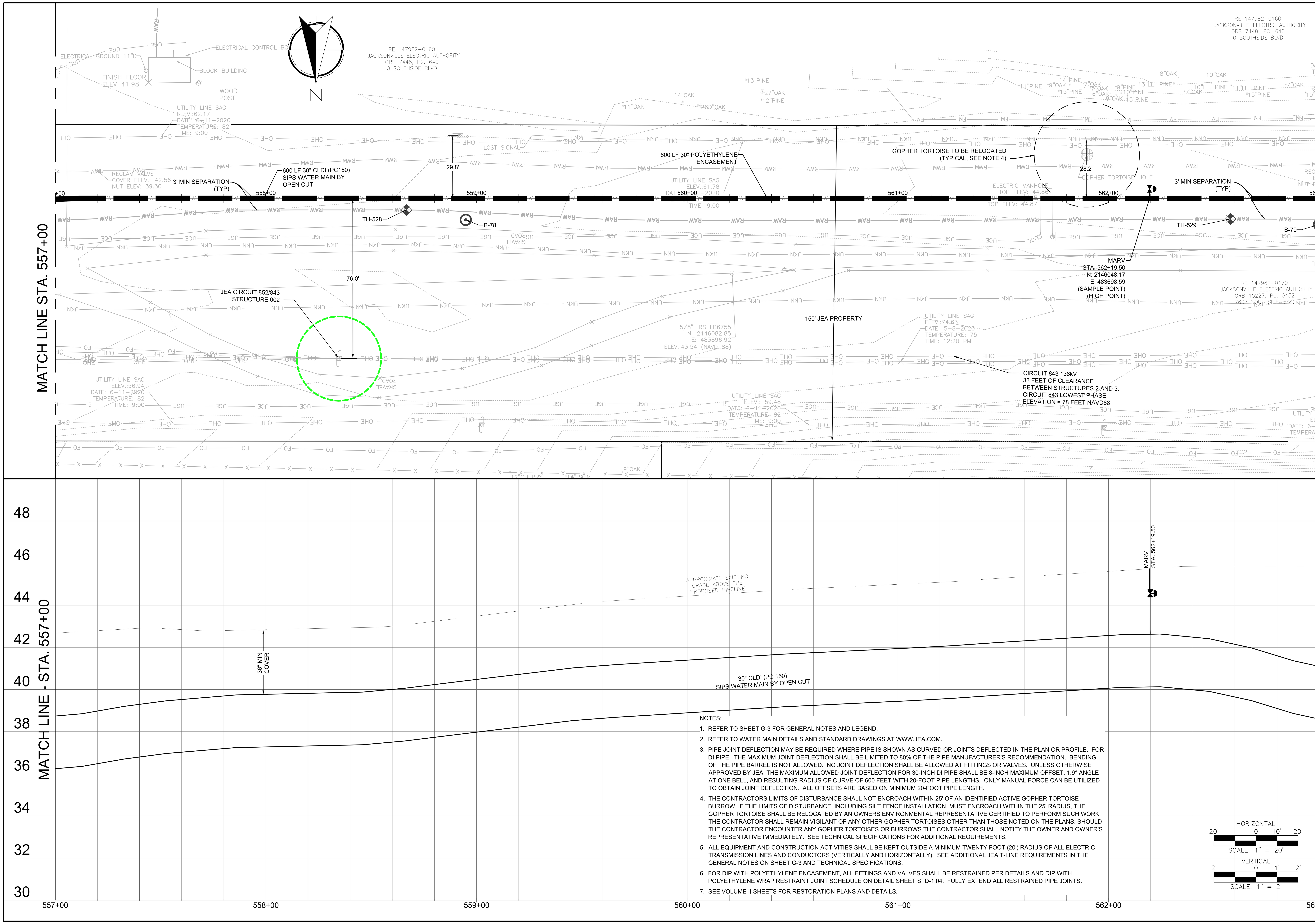
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS 89
SHEET NO. 62
DRAWING NO. C-5.10

Fri May 28, 2021 - 00:37
Current Layout Tab = 30IN SIPS WM PLAN & PROFILE STA 551+00 TO 557+00



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COA # 2822

REVISIONS

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

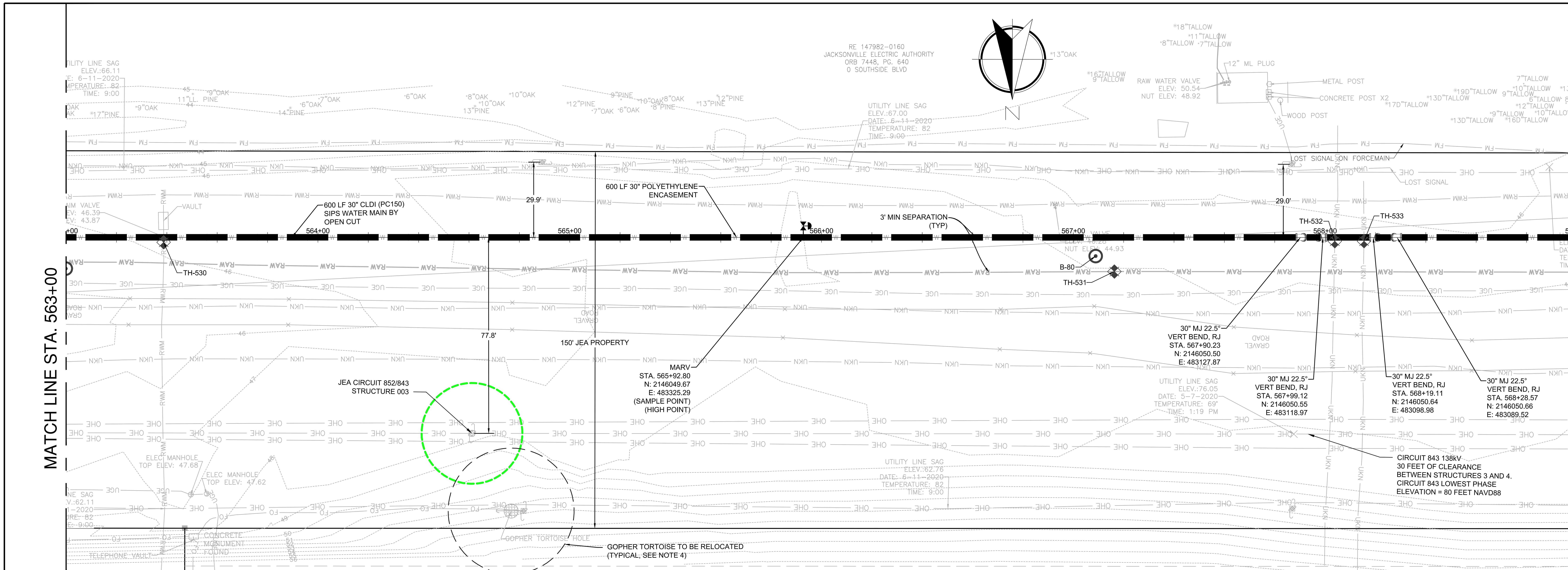
JEA Building Community

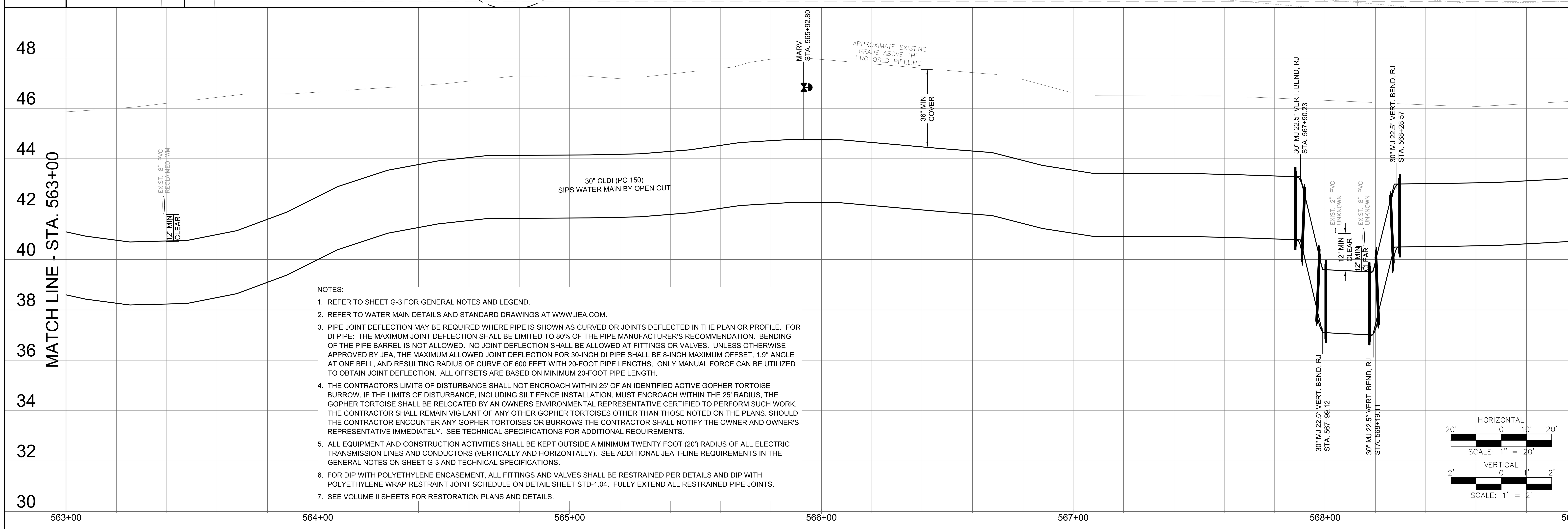
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 557+00 TO 563+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 63
DRAWING NO. C-5.11





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COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO.
58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community

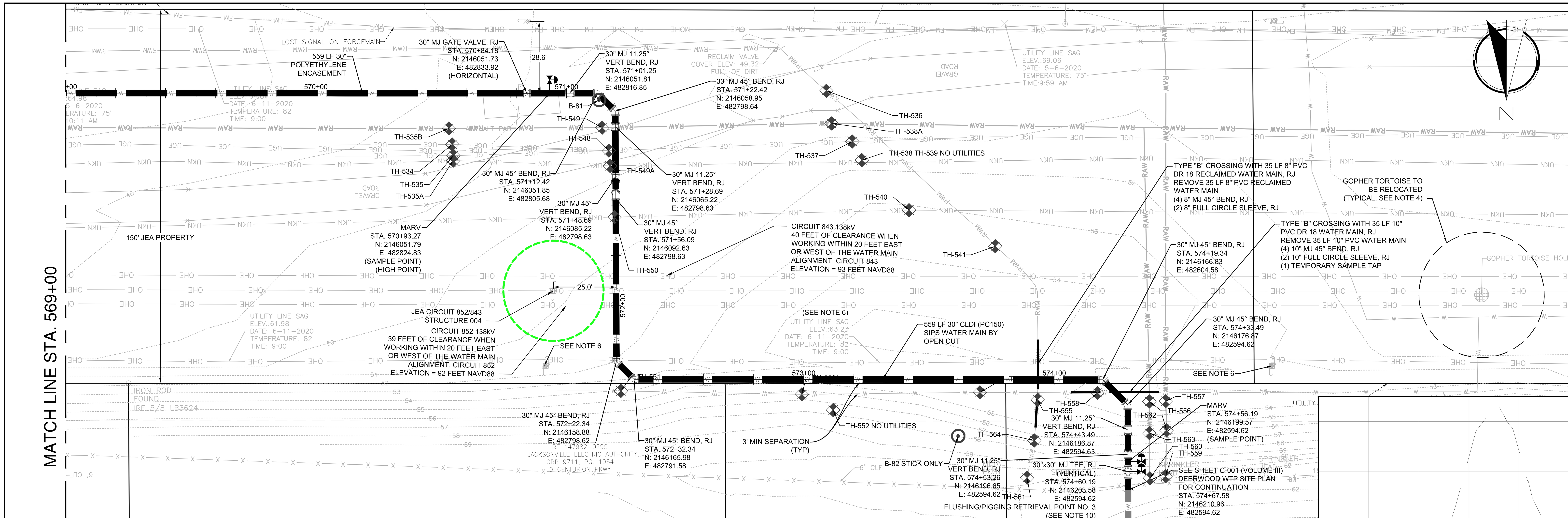
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 563+00 TO 569+00

PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS	89
SHEET NO.	64
DRAWING NO.	C-5.12

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887



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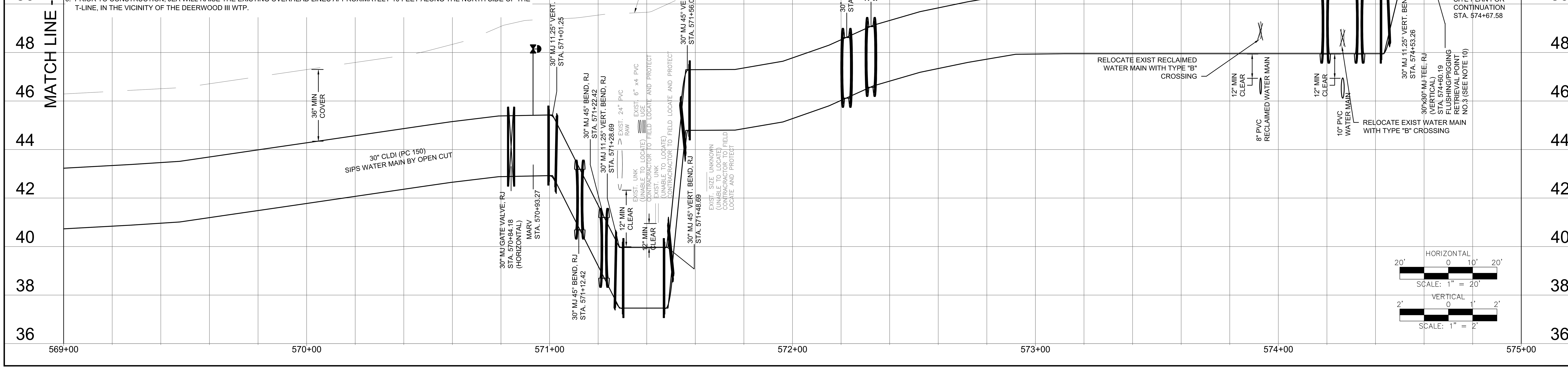
6. PRIOR TO CONSTRUCTION, JEA WILL RAISE THE EXISTING OVERHEAD LINES APPROXIMATELY 10 FEET ALONG THE NORTH SIDE OF THE T-LINE, IN THE VICINITY OF THE DEERWOOD III WTP.
7. FOR DIP WITH POLYETHYLENE ENCASEMENT, ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP WITH POLYETHYLENE WRAP RESTRAINT JOINT SCHEDULE ON DETAIL SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
8. SEE VOLUME II SHEETS FOR RESTORATION AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.
9. THE 30-INCH SIPS WATER MAIN FLUSHING/SWABBING (PIGGING) SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. SEE SHEET STD-3.01 FOR DETAILS FOR LAUNCH AND RETRIEVAL POINTS. SEE SHEET C-5.04 FOR 30-INCH SIPS WATER MAIN FLUSHING/PIGGING LAUNCH POINT NO. 3 (UPSTREAM). CONTRACTOR SHALL PROVIDE TEMPORARY ABOVE GROUND PIPING FROM RETRIEVAL POINT/STATION TO THE DISCHARGE RECEIVING AREA AT THE LOW AREA IN THE T-LINE (SOUTHEAST OF RETRIEVAL POINT IN THE VICINITY OF STATION 568+00). CONTRACTOR SHALL NOT BLOCK ACCESS TO THE T-LINE ROAD WITH THE TEMPORARY PIPING. EROSION CONTROL AND CONTAINMENT MEASURES SHALL BE PROVIDED AROUND THE DISCHARGE AREA. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



Jacobs
200 WEST FORSYTH STREET, SUITE 1520
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COA # 2822

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSELBG
DRAWN BY:	DOHWBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community

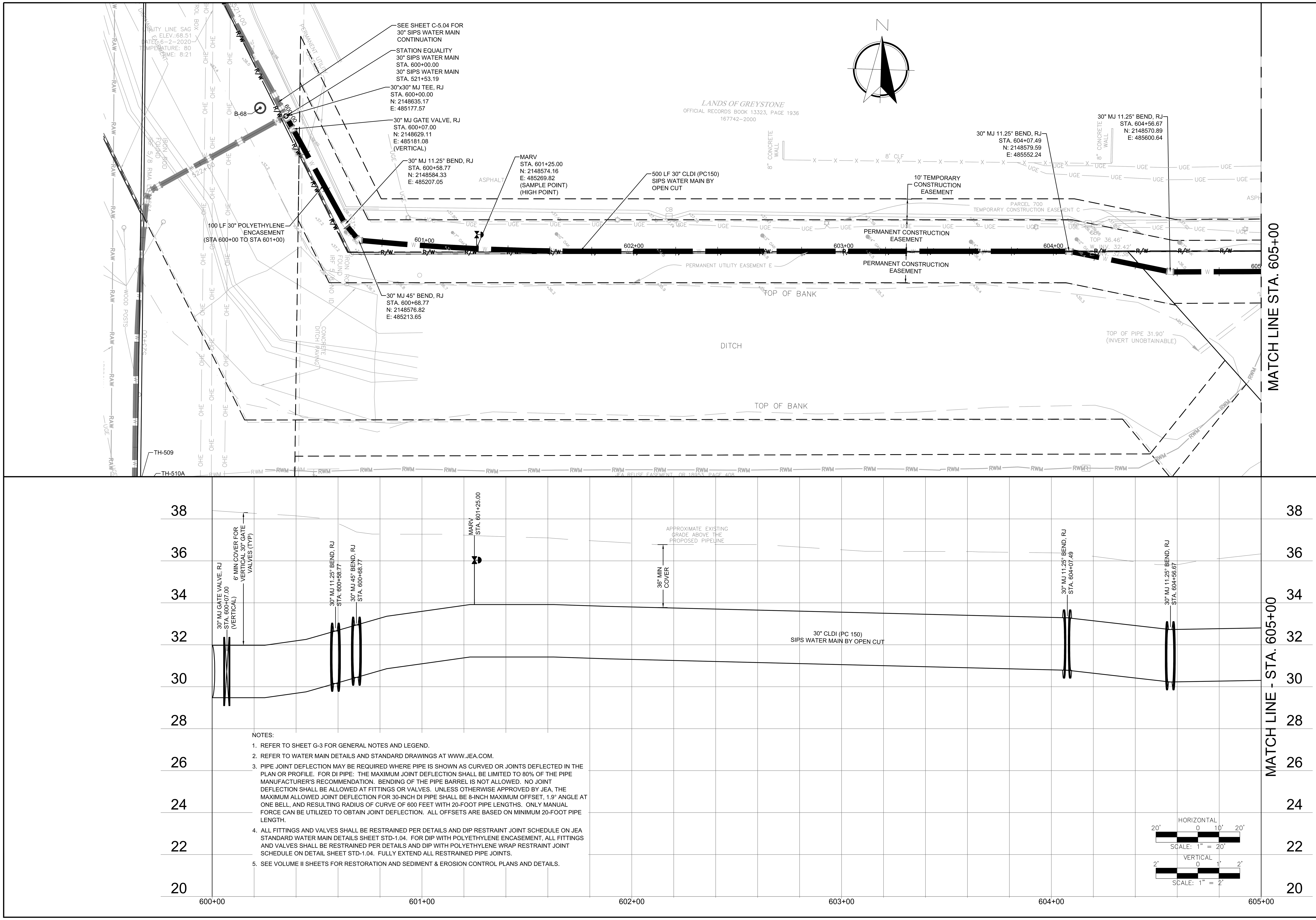
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 569+00 TO END

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 65
DRAWING NO. C-5.13



NOTES:

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

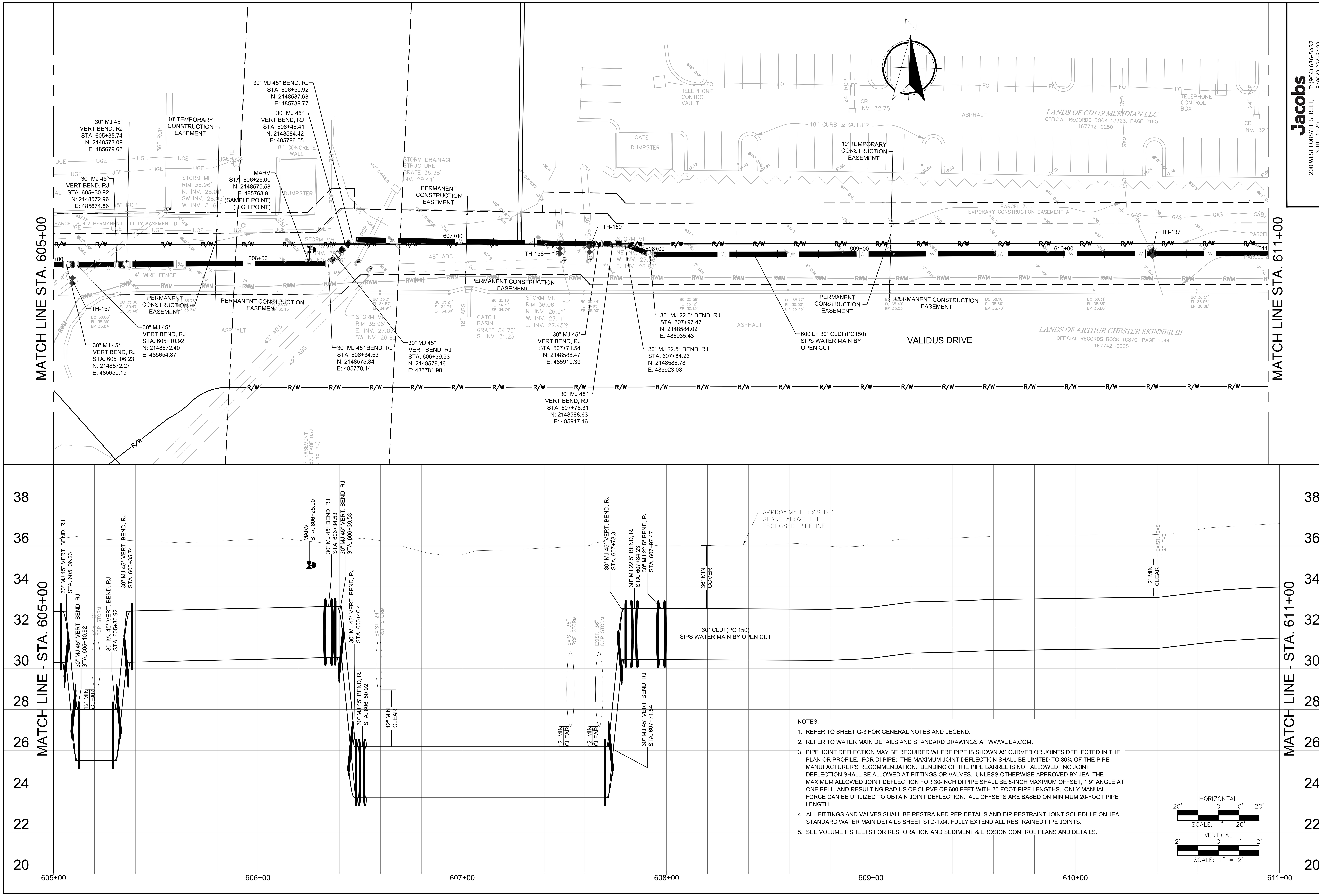
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 600+00 TO 605+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 66
DRAWING NO. C-6.01

Current Layout Tab = 30IN SIPS WM PLAN & PROFILE STA 600+00 TO 605+00 Fri May 28, 2021 - 00:42



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COA # 2822

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

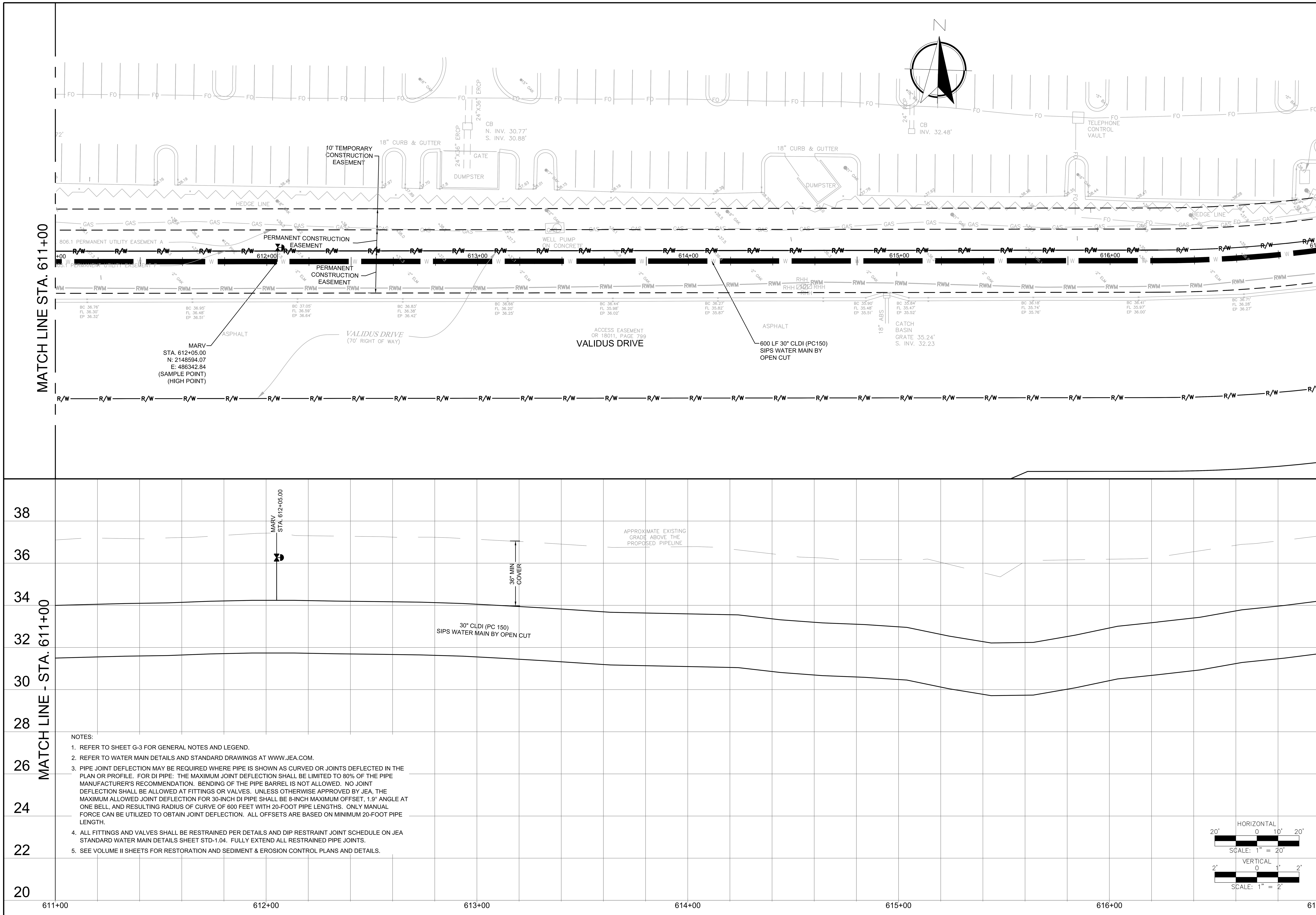
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 605+00 TO 611+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO.: D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 67
DRAWING NO. C-6.02



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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

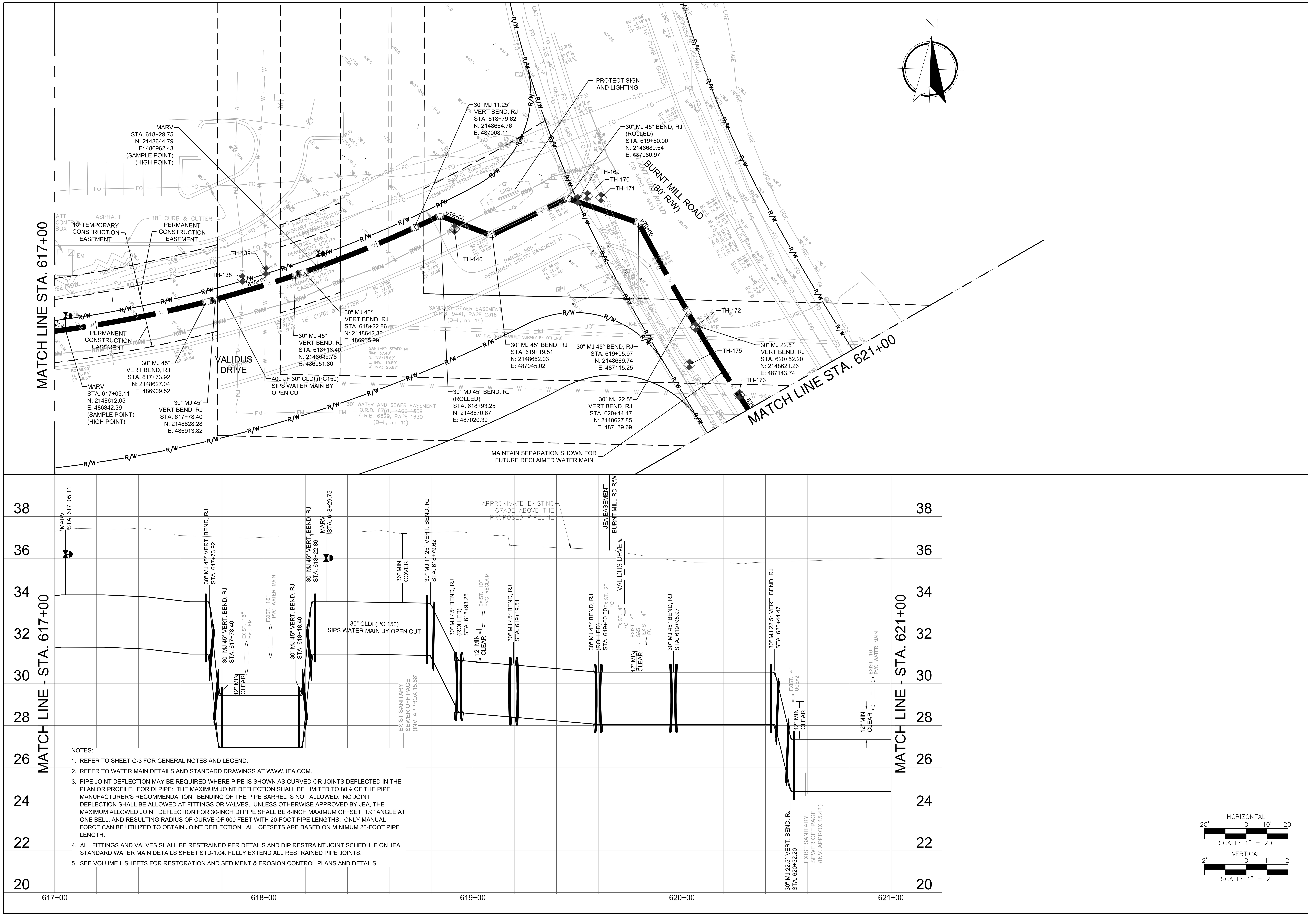
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 611+00 TO 617+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 68
DRAWING NO. C-6.03



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5. SEE VOLUME II SHEETS FOR RESTORATION AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 2'

Jacobs
200 WEST FORSYTH STREET, SUITE 1520
JACKSONVILLE, FL 32202
T:(904) 636-5432
F:(904) 224-3102
COA # 2822

REVISIONS

NO.	BY	DATE
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDU
DATE: MAY 2021

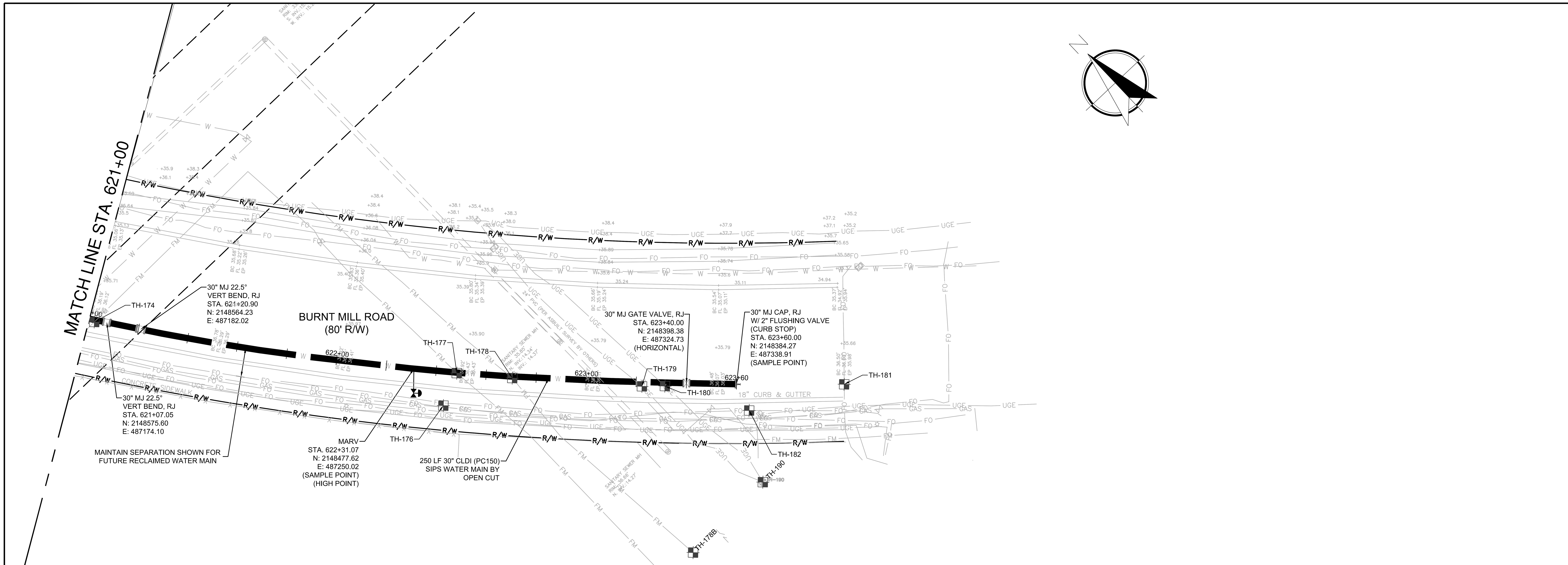
JEA Building Community

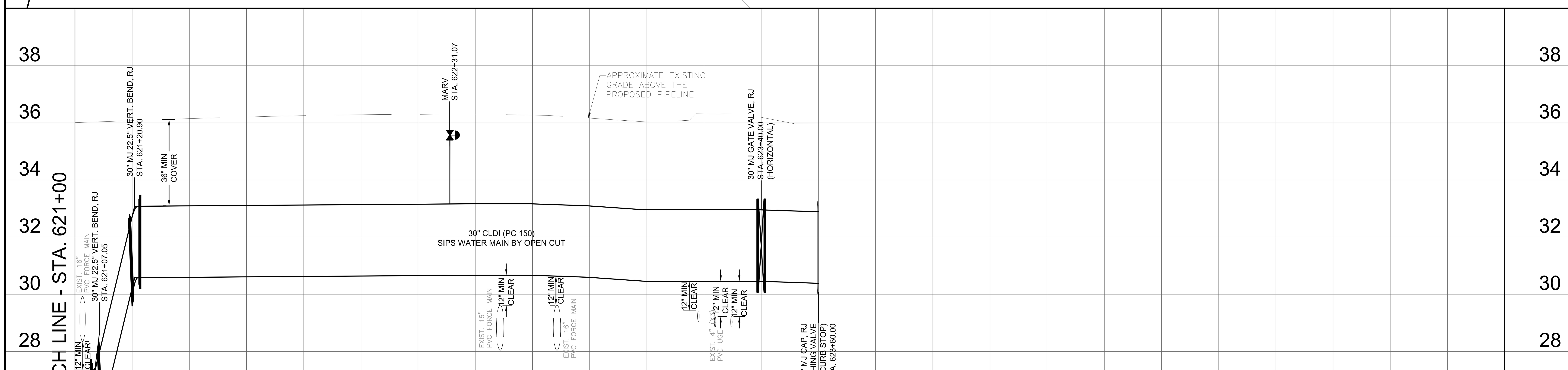
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 617+00 TO 621+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN
NO. SHEETS 89
SHEET NO. 69
DRAWING NO. C-6.04





NOTES:

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HORIZONTAL
SCALE: 1" = 20'

VERTICAL
SCALE: 1" = 2'

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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

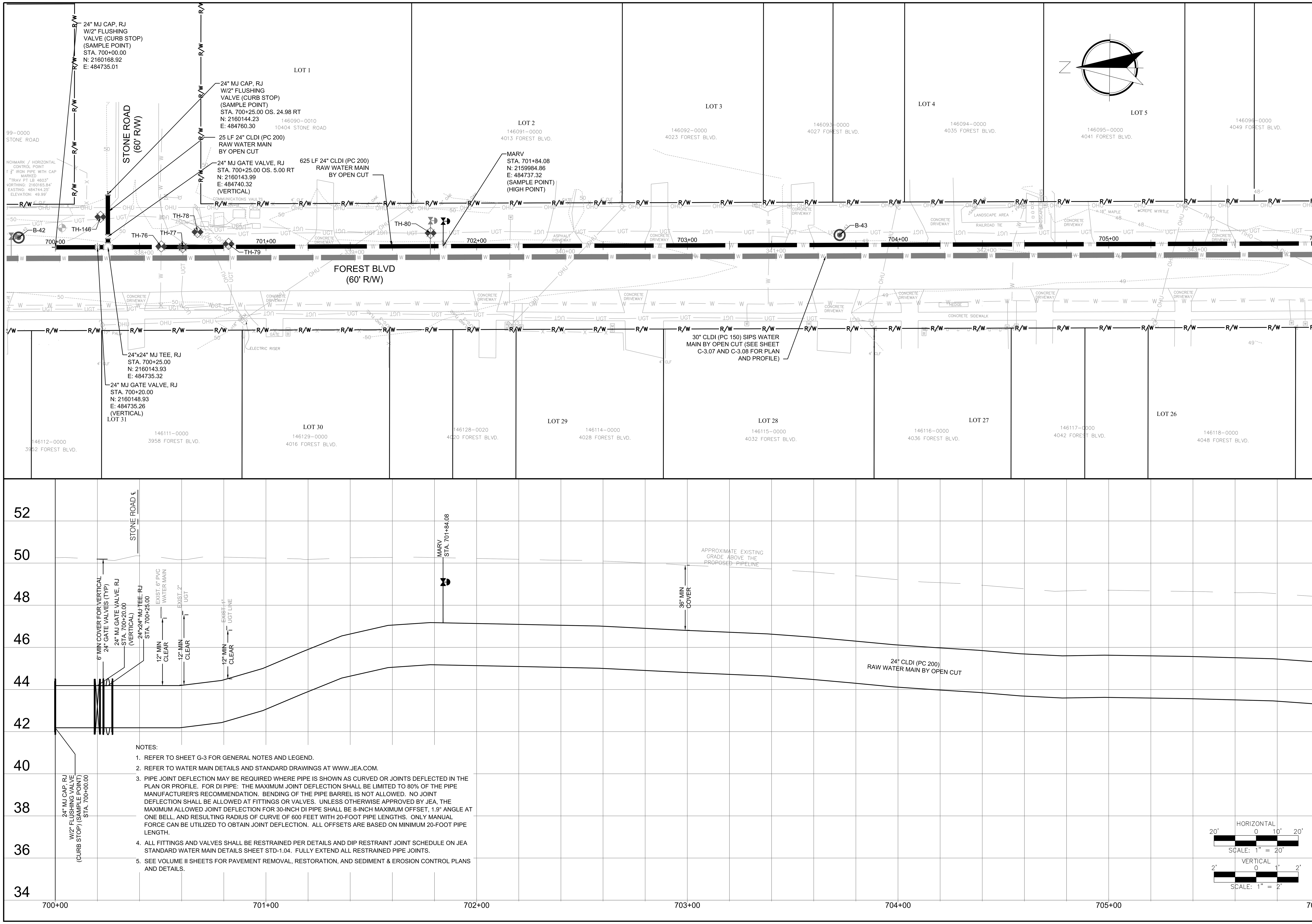
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
30IN SIPS WM PLAN & PROFILE STA 621+00 TO END

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

PROJ. NO.: D3254953
DATE: MAY 2021
SCALE: AS SHOWN
JEA PROJ NO.: 8004887

NO. SHEETS 89
SHEET NO. 70
DRAWING NO. C-6.05

Fri, May 28, 2021 - 00:48
C:\pwworking\jacobs_b&i\hillda\d0228455\P-D3254953-STA600-1-5.dwg Current Layout Tab = 30IN SIPS WM PLAN & PROFILE STA 621+00 TO END



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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

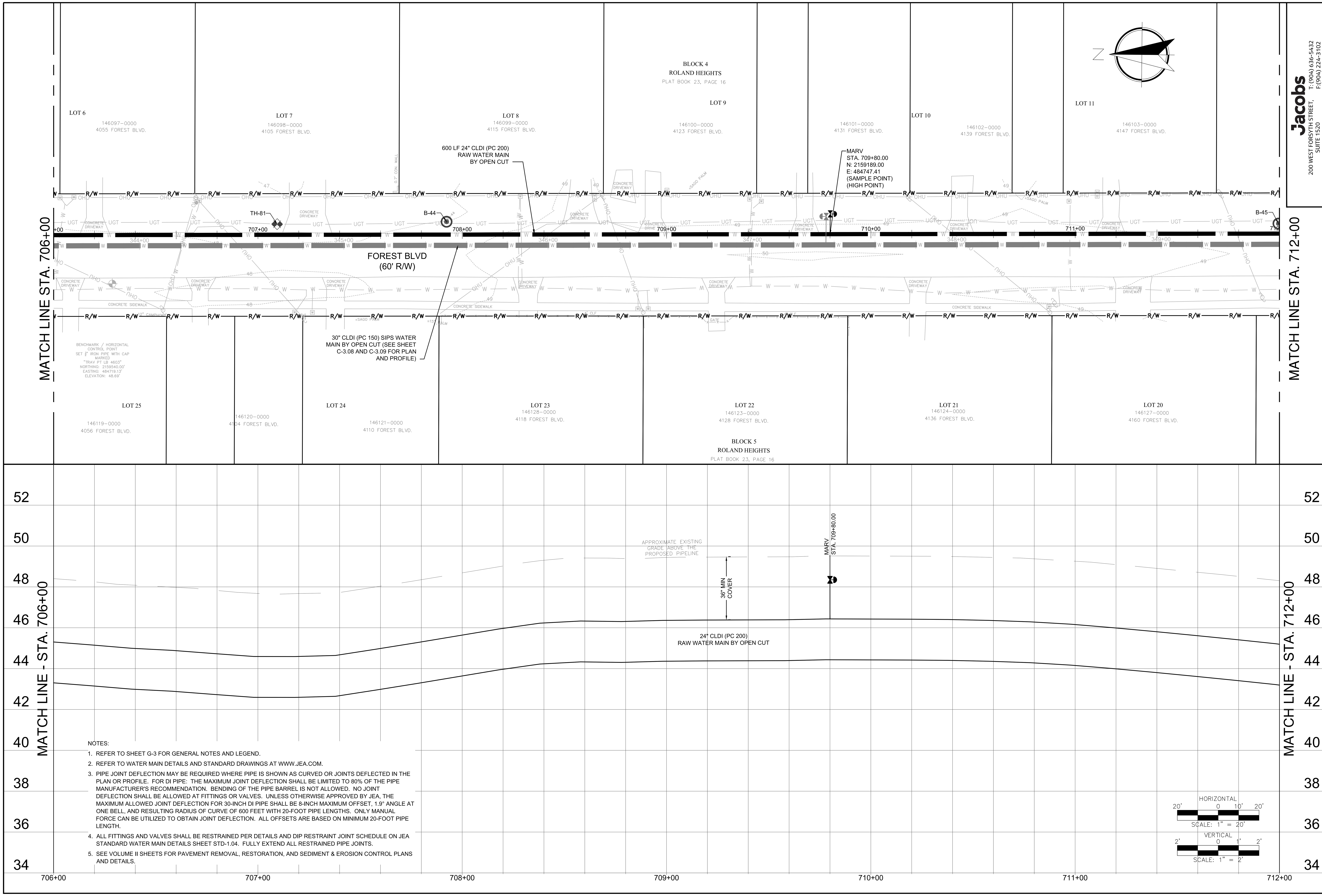
JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
24IN RAW WM PLAN & PROFILE STA 700+00 TO 706+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
JEA PROJ NO.: 8004887

PROJ. NO.: D3254953
DATE: MAY 2021
SCALE: AS SHOWN
NO. SHEETS: 89
SHEET NO.: 71
DRAWING NO.: C-7.01

Fri May 28, 2021 - 00:49
Current Layout Tab = 24IN RAW WM PLAN & PROFILE STA 700+00 TO 706+00



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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

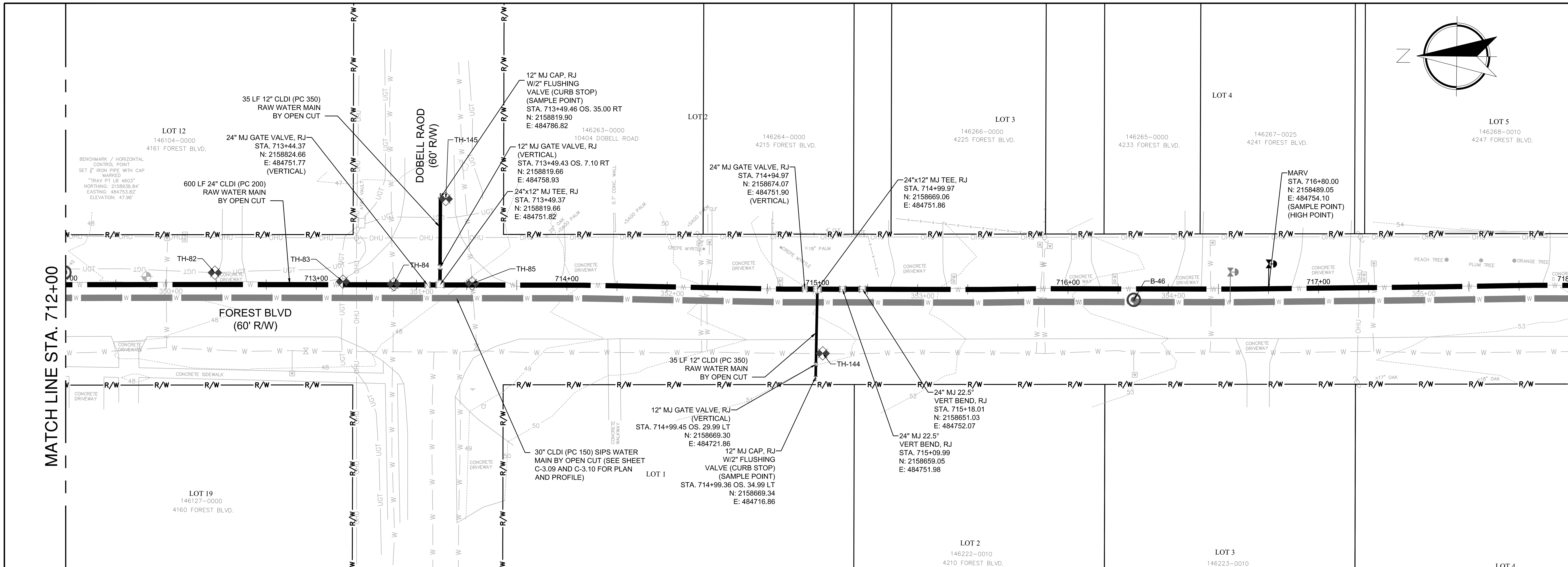
JEA Building Community

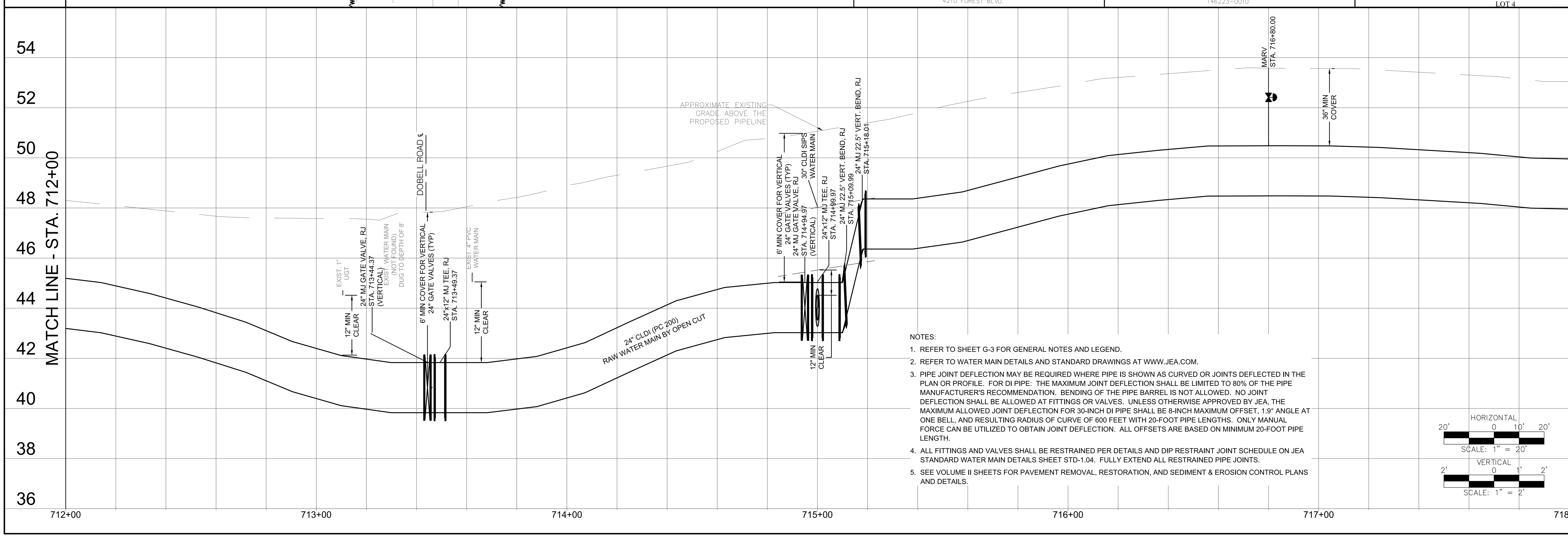
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
24IN RAW WM PLAN & PROFILE STA 706+00 TO 712+00

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 72
DRAWING NO. C-7.02

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
JEA PROJ NO.: 8004887





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HORIZONTAL
SCALE: 1" = 20'

VERTICAL
SCALE: 1" = 2'

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200 WEST FORSYTH STREET, SUITE 1520
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COA # 2822

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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO.
58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

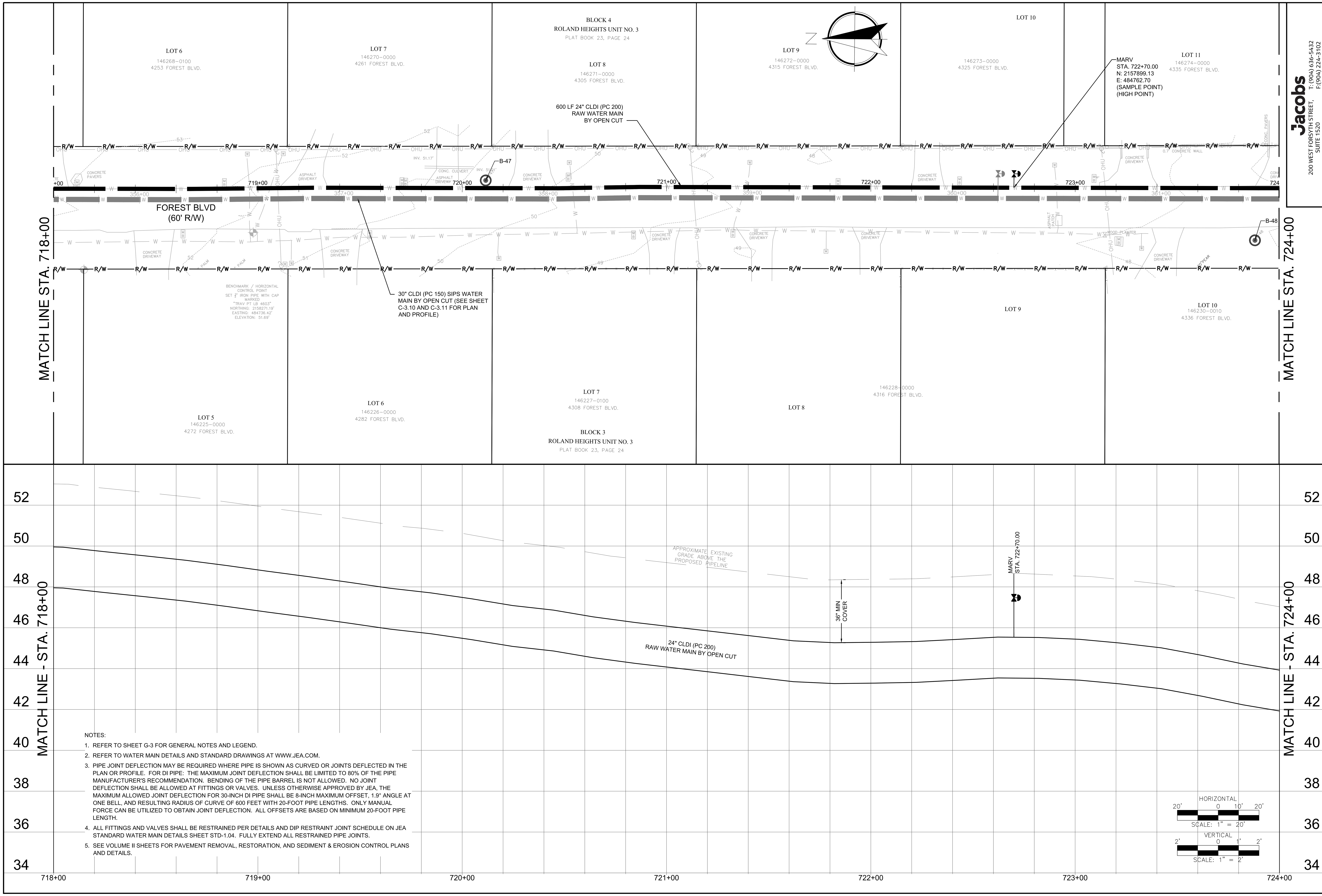
JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
24IN RAW WM PLAN & PROFILE STA 712+00 TO 718+00

PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS 89
SHEET NO. 73
DRAWING NO. C-7.03

JEA PROJ NO.: 8004887
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP



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COA # 2822

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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO.
58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

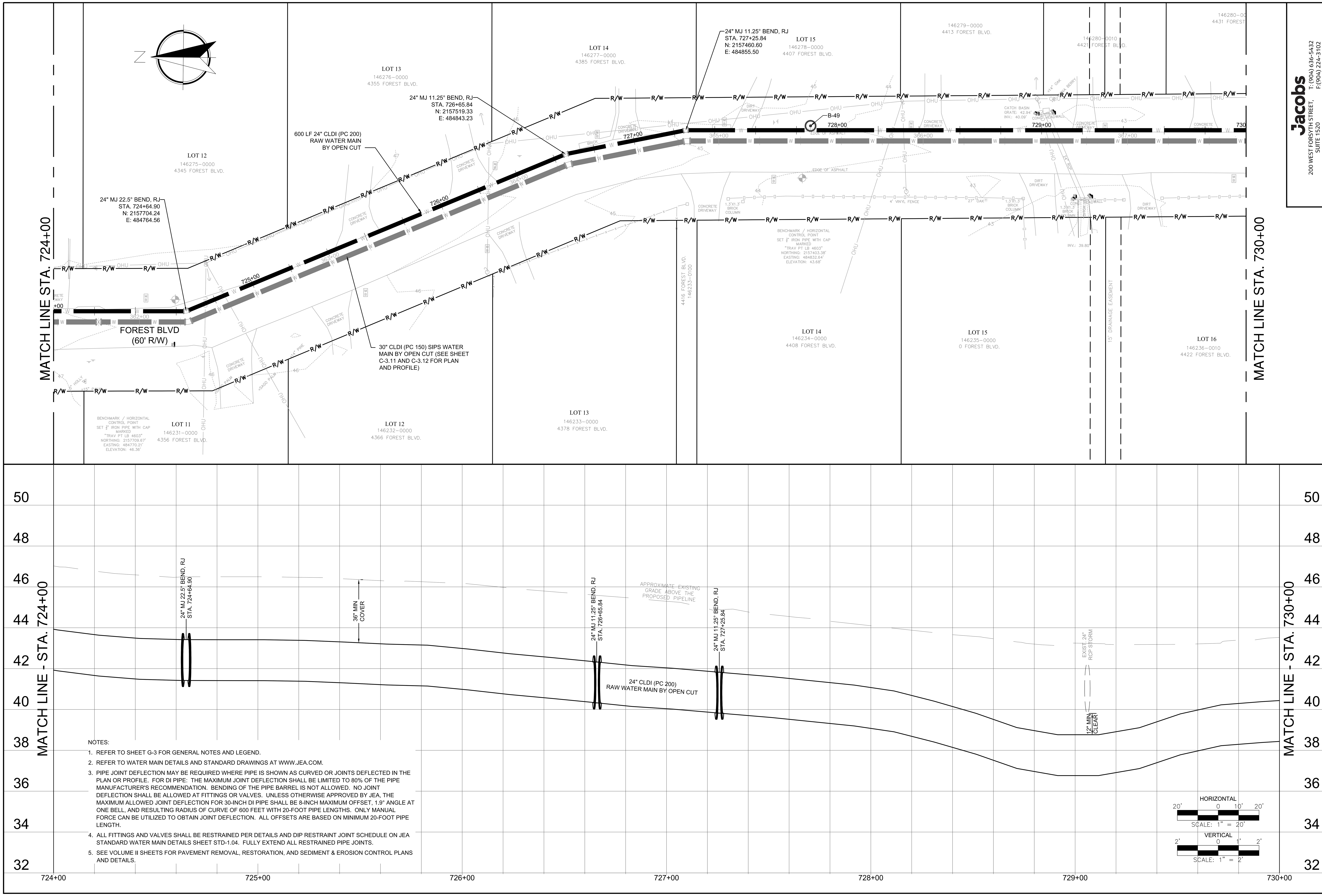
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
24IN RAW WM PLAN & PROFILE STA 718+00 TO 724+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 74
DRAWING NO. C-7.04



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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

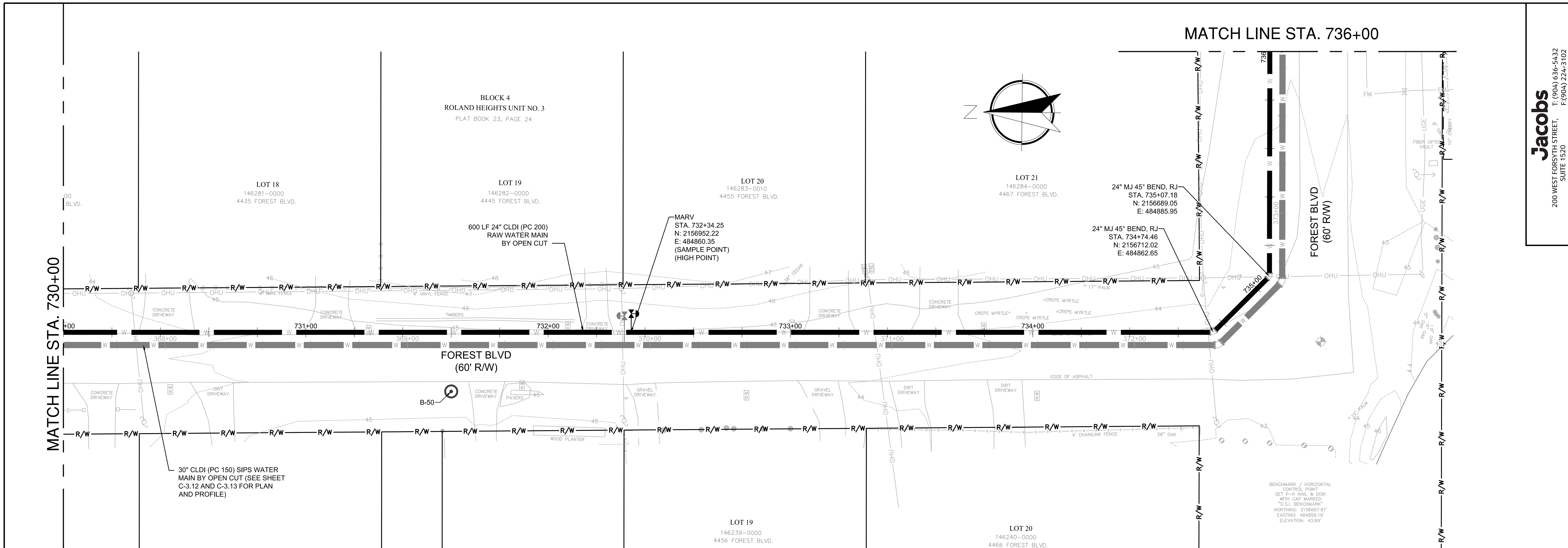
DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDU
DATE:	MAY 2021

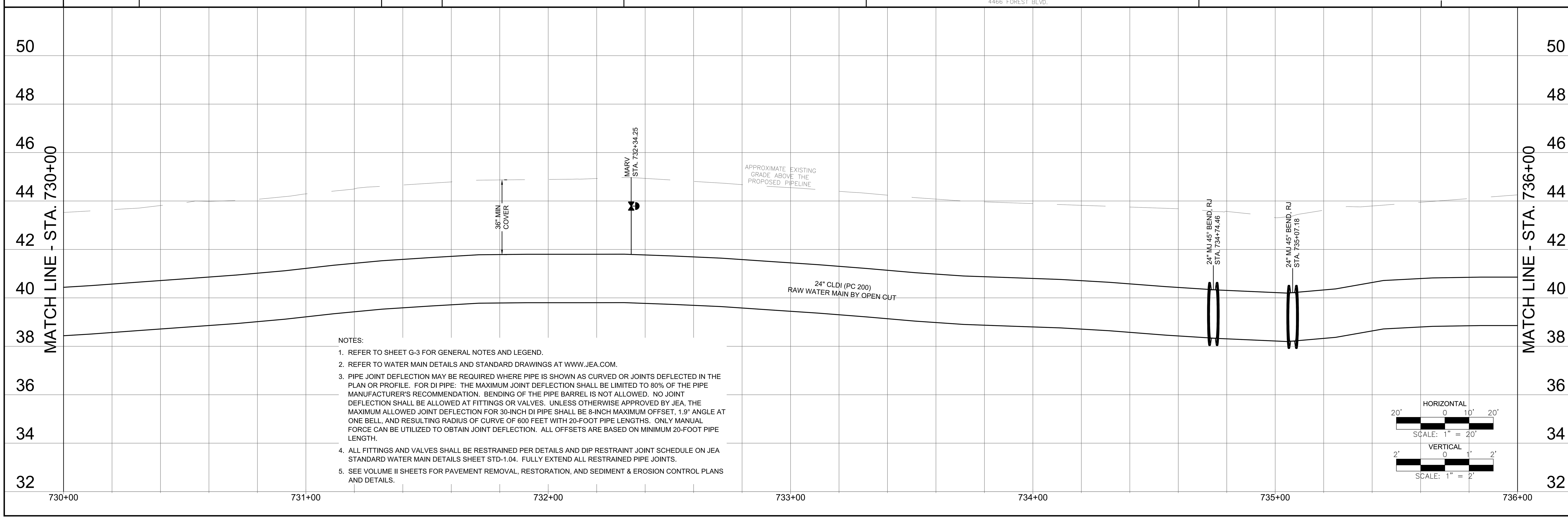
JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
24IN RAW WM PLAN & PROFILE STA 724+00 TO 730+00

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN
NO. SHEETS 89
SHEET NO. 75
DRAWING NO. C-7.05





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COA # 2822

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDU
DATE: MAY 2021

JEA Building Community

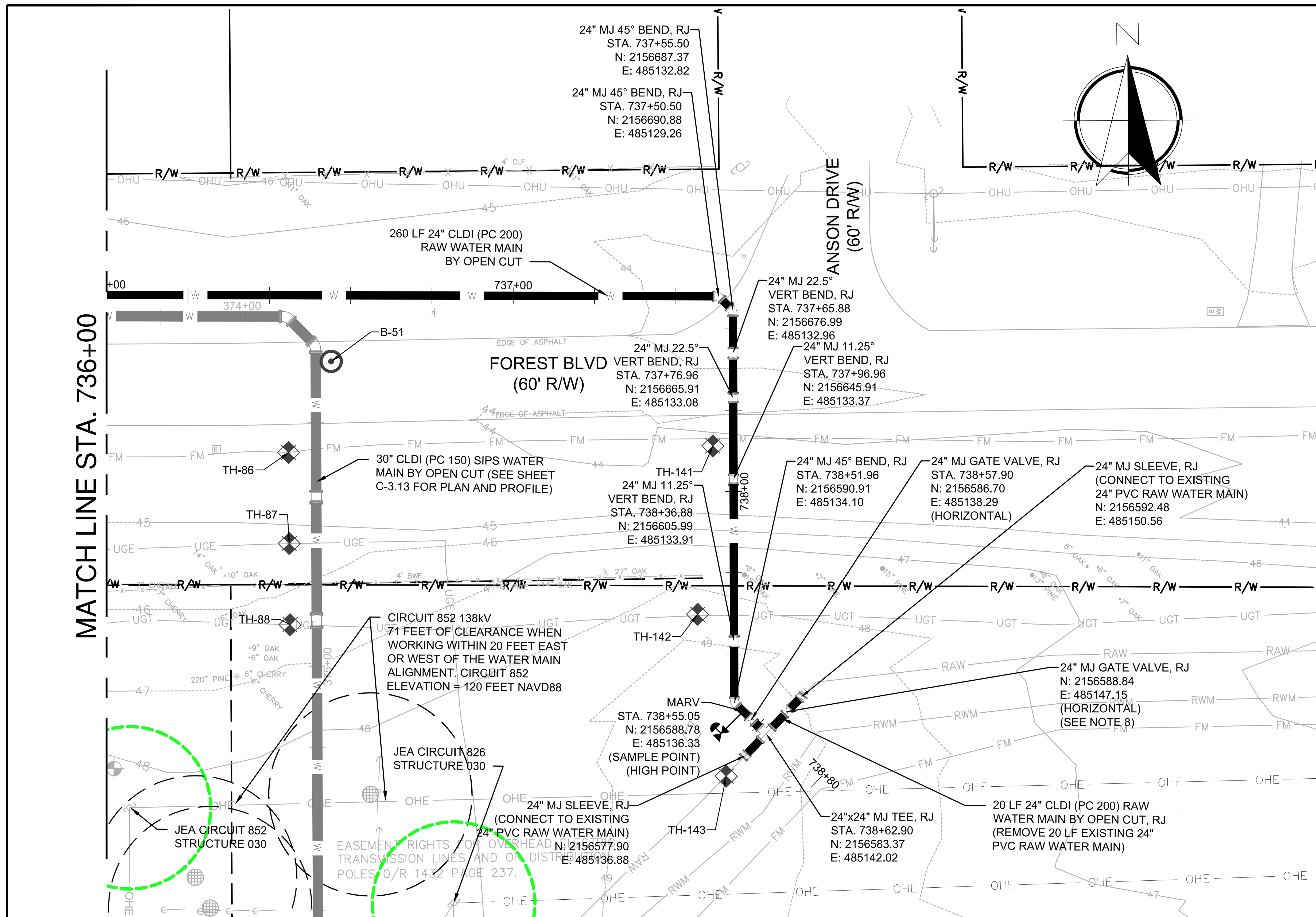
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

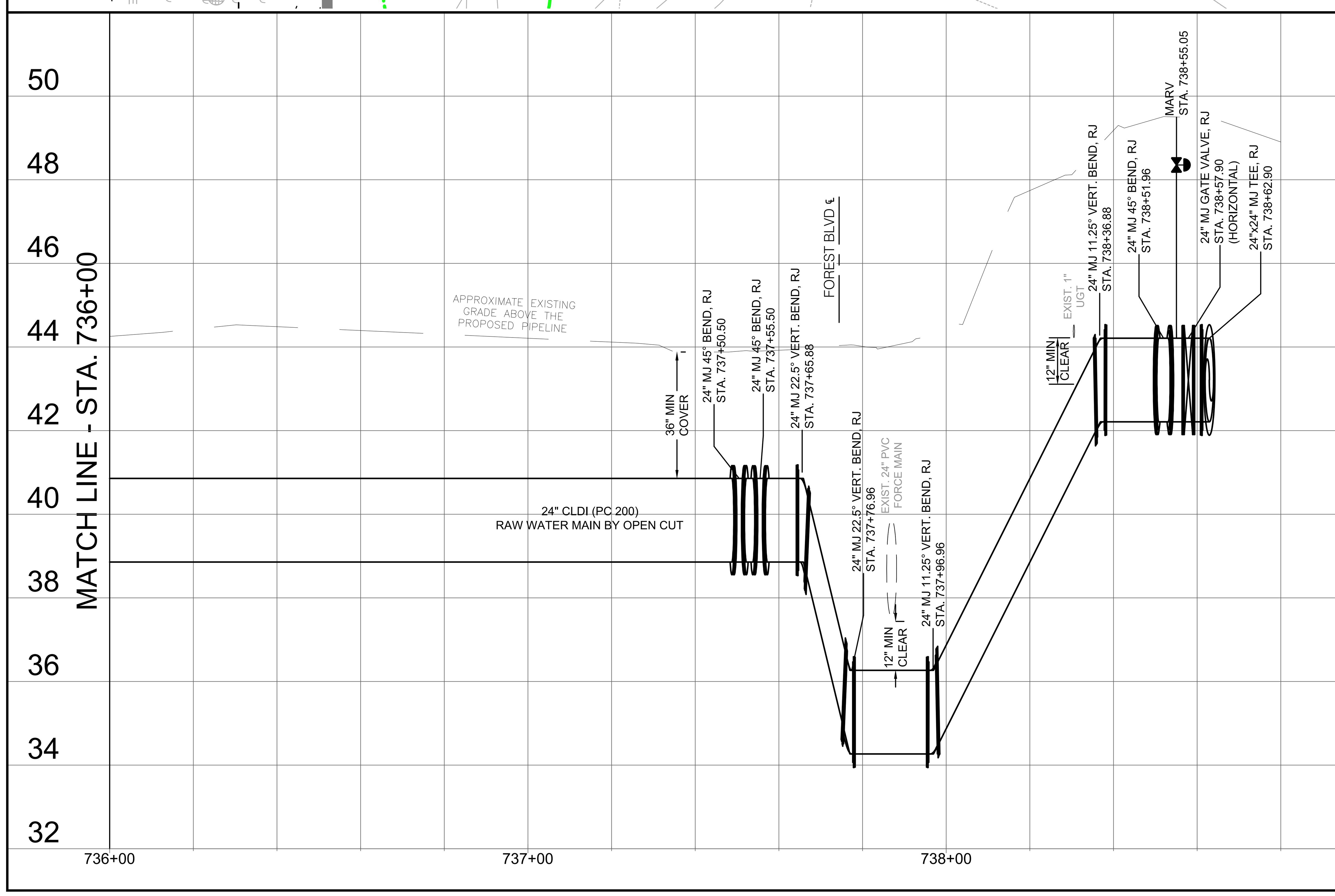
JEA PROJ NO.: 8004887

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
24IN RAW WM PLAN & PROFILE STA 730+00 TO 736+00

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 76
DRAWING NO. C-7.06





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4. THE CONTRACTORS LIMITS OF DISTURBANCE SHALL NOT ENCROACH WITHIN 25' OF AN IDENTIFIED ACTIVE GOPHER TORTOISE BURROW. IF THE LIMITS OF DISTURBANCE, INCLUDING SILT FENCE INSTALLATION, MUST ENCROACH WITHIN THE 25' RADIUS, THE GOPHER TORTOISE SHALL BE RELOCATED BY AN OWNERS ENVIRONMENTAL REPRESENTATIVE CERTIFIED TO PERFORM SUCH WORK. THE CONTRACTOR SHALL REMAIN VIGILANT OF ANY OTHER GOPHER TORTOISES OTHER THAN THOSE NOTED ON THE PLANS. SHOULD THE CONTRACTOR ENCOUNTER ANY GOPHER TORTOISES OR BURROWS THE CONTRACTOR SHALL NOTIFY THE OWNER AND OWNER'S REPRESENTATIVE IMMEDIATELY. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. ALL EQUIPMENT AND CONSTRUCTION ACTIVITIES SHALL BE KEPT OUTSIDE A MINIMUM TWENTY FEET (20') FROM ALL ENERGIZED TRANSMISSION WIRES / CONDUCTORS (VERTICALLY OR HORIZONTALLY) AND TWENTY FEET (20') HORIZONTALLY FROM ALL TRANSMISSION STRUCTURES. SEE ADDITIONAL JEA T-LINE REQUIREMENTS IN THE GENERAL NOTES ON SHEET G-3 AND TECHNICAL SPECIFICATIONS.
6. ALL FITTINGS AND VALVES SHALL BE RESTRAINED PER DETAILS AND DIP RESTRAINT JOINT SCHEDULE ON JEA STANDARD WATER MAIN DETAILS SHEET STD-1.04. FULLY EXTEND ALL RESTRAINED PIPE JOINTS.
7. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.
8. A MINIMUM OF 185 FT OF RESTRAINT IS REQUIRED ON THE EXISTING 24" PVC RAW WATER MAIN ON EITHER SIDE OF THE NEW 24" GATE VALVE. CONTRACTOR SHALL FIELD VERIFY THE EXISTING PIPE SIZE, MATERIAL, DEPTH, PIPE JOINT LOCATIONS, AND PIPE JOINT RESTRAINT PRIOR TO ORDERING MATERIALS. 24" SPLIT RING BELL RESTRAINTS SHALL BE PROVIDED IN ACCORDANCE WITH JEA STANDARDS; PRESSURE RATING SHALL BE EQUAL TO THE PVC PIPE DIMENSION RATIO (DR) RATING OR A MINIMUM OF 150 PSI.

HORIZONTAL
20' 0 10' 20'
SCALE: 1" = 20'

VERTICAL
2' 0 1' 2'
SCALE: 1" = 2'

Jacobs
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COA # 2822

NO.	BY	DATE	REVISIONS
6.			
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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
24IN RAW WM PLAN & PROFILE STA 736+00 TO END

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 77
DRAWING NO. C-7.07

Fri, May 28, 2021 - 00:54
Current Layout Tab = 24IN RAW WM PLAN & PROFILE STA 736+00 TO END
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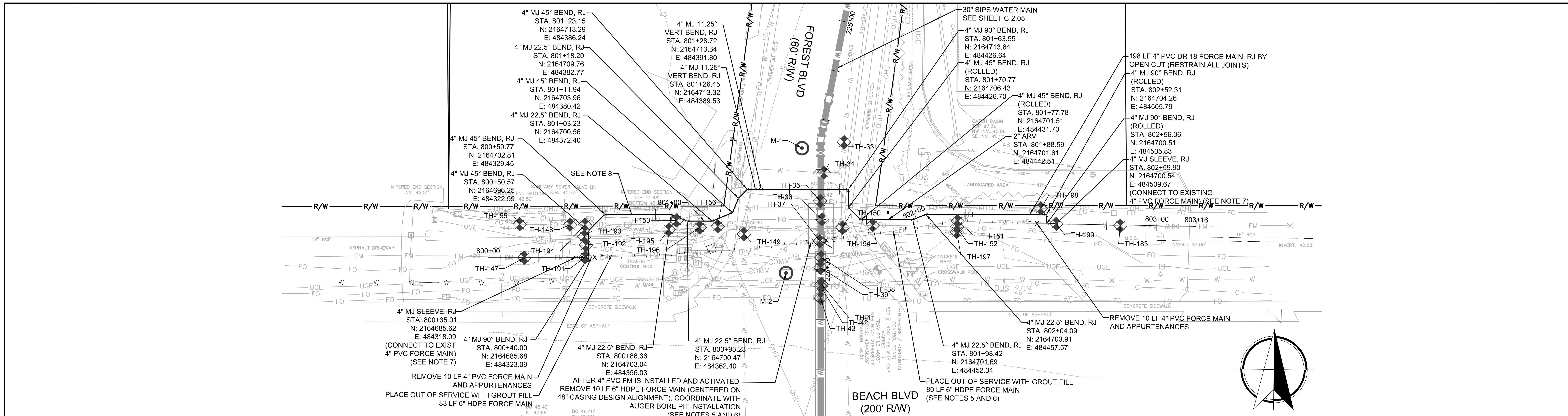

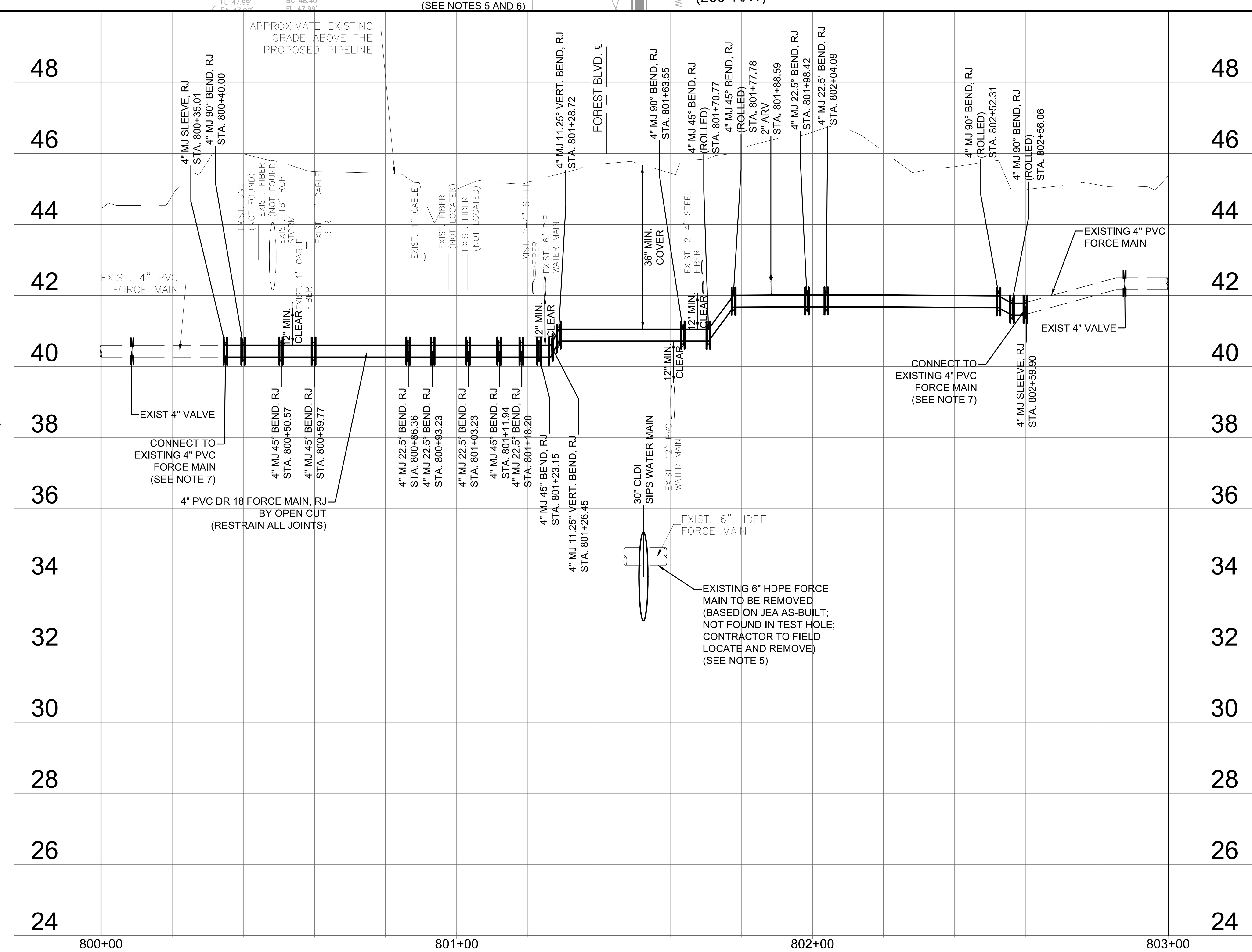

NOTES:

1. REFER TO SHEET G-3 FOR GENERAL NOTES AND LEGEND.
2. REFER TO FORCE MAIN DETAILS AND STANDARD DRAWINGS AT WWW.JEA.COM.
3. PIPE JOINT DEFLECTION MAY BE REQUIRED WHERE PIPE IS SHOWN AS CURVED OR JOINTS DEFLECTED IN THE PLAN OR PROFILE. FOR PVC PIPE: THE MAXIMUM JOINT DEFLECTION SHALL BE LIMITED TO 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION. BENDING OF THE PIPE BARREL IS NOT ALLOWED. NO JOINT DEFLECTION SHALL BE ALLOWED AT FITTINGS OR VALVES. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ALLOWED JOINT DEFLECTION FOR 4-INCH PVC PIPE SHALL BE 10-INCH MAXIMUM OFFSET, 2.4° ANGLE AT ONE BELL, AND RESULTING RADIUS OF CURVE OF 480 FEET WITH 20-FOOT PIPE LENGTHS. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20-FOOT PIPE LENGTH.
4. SEE VOLUME II SHEETS FOR PAVEMENT REMOVAL, RESTORATION, AND SEDIMENT & EROSION CONTROL PLANS AND DETAILS.
5. THE LOCATION, EXTENTS, AND DEPTH OF THE EXISTING 6-INCH HDPE FORCE MAIN HAVE NOT BEEN LOCATED. THE CONFIGURATION SHOWN IS BASED ON THE EXISTING FORCE MAIN AS-BUILT DRAWING. PRIOR TO ANY WORK ASSOCIATED WITH THE 4-INCH PVC FORCE MAIN (INCLUDING ORDERING MATERIALS OR ANY FIELD WORK), THE CONTRACTOR SHALL FIELD LOCATE THE EXISTING 6-INCH HDPE FORCE MAIN AT THE CROSSING OF THE SIPS WATER MAIN ALIGNMENT, AND NOTIFY THE JEA REPRESENTATIVE OF THE FINDINGS WITHIN 24 HOURS. IF THE EXISTING 6-INCH HDPE FORCE MAIN IS FOUND ABOVE THE PROPOSED ELEVATION OF THE 30-INCH SIPS WATER MAIN PIPE, THE JEA REPRESENTATIVE SHALL DETERMINE IF THE EXISTING FORCE MAIN CAN REMAIN IN PLACE WITH REQUIRED VERTICAL CLEARANCE OR IF THE FORCE MAIN RELOCATION AND REMOVAL SHALL PROCEED AS DESIGNED. SEE TECHNICAL SPECIFICATIONS.
6. PRIOR TO AUGER BORE AND REMOVAL OF EXISTING 6-INCH HDPE FORCE MAIN, THE NEW 4-INCH PVC FORCE MAIN SHALL BE INSTALLED AND PLACED INTO OPERATION IN ACCORDANCE WITH JEA STANDARDS AND REQUIREMENTS. AFTER THE 4-INCH PVC FORCE MAIN IS IN SERVICE, THE EXISTING 6-INCH HDPE FORCE MAIN SHALL BE REMOVED FOR THE EXTENTS SHOWN IN THE PLAN AND PROFILE PRIOR TO THE AUGER BORE INSTALLATION. THE REMAINING PORTIONS OF 6-INCH HDPE FORCE MAIN SHALL BE GROUT FILLED AND PLACED OUT OF SERVICE, EXCEPT IF REMOVAL IS REQUIRED AT THE NEW FORCE MAIN CONNECTION POINTS.
7. CONTRACTOR TO FIELD LOCATE EXISTING 4-INCH PVC FORCE MAIN AT CONNECTION POINTS PRIOR TO ORDERING MATERIALS. CONNECTION POINT LOCATION SHALL BE ADJUSTED AS REQUIRED TO CONNECT TO THE EXISTING 4-INCH PVC FORCE MAIN. CONNECTION SHALL NOT BE MADE TO THE EXISTING 6-INCH HDPE PORTION OF THE FORCE MAIN.
8. CONTRACTOR TO LOCATE AND PROTECT FIBER OPTIC CABLES AND UNDERGROUND ELECTRIC LINES. CONTRACTOR SHALL EMPLOY HAND DIGGING AND OTHER PROTECTIVE MEASURES FOR WORK IN VICINITY OF FIBER OPTIC CABLES (FROM APPROXIMATELY STA 800+40 TO 801+27).

HORIZONTAL
SCALE: 1" = 20'

VERTICAL
SCALE: 1" = 2'

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REVISIONS

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

DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDU
DATE:	MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
4IN FORCE MAIN RELOCATION AT BEACH BLVD

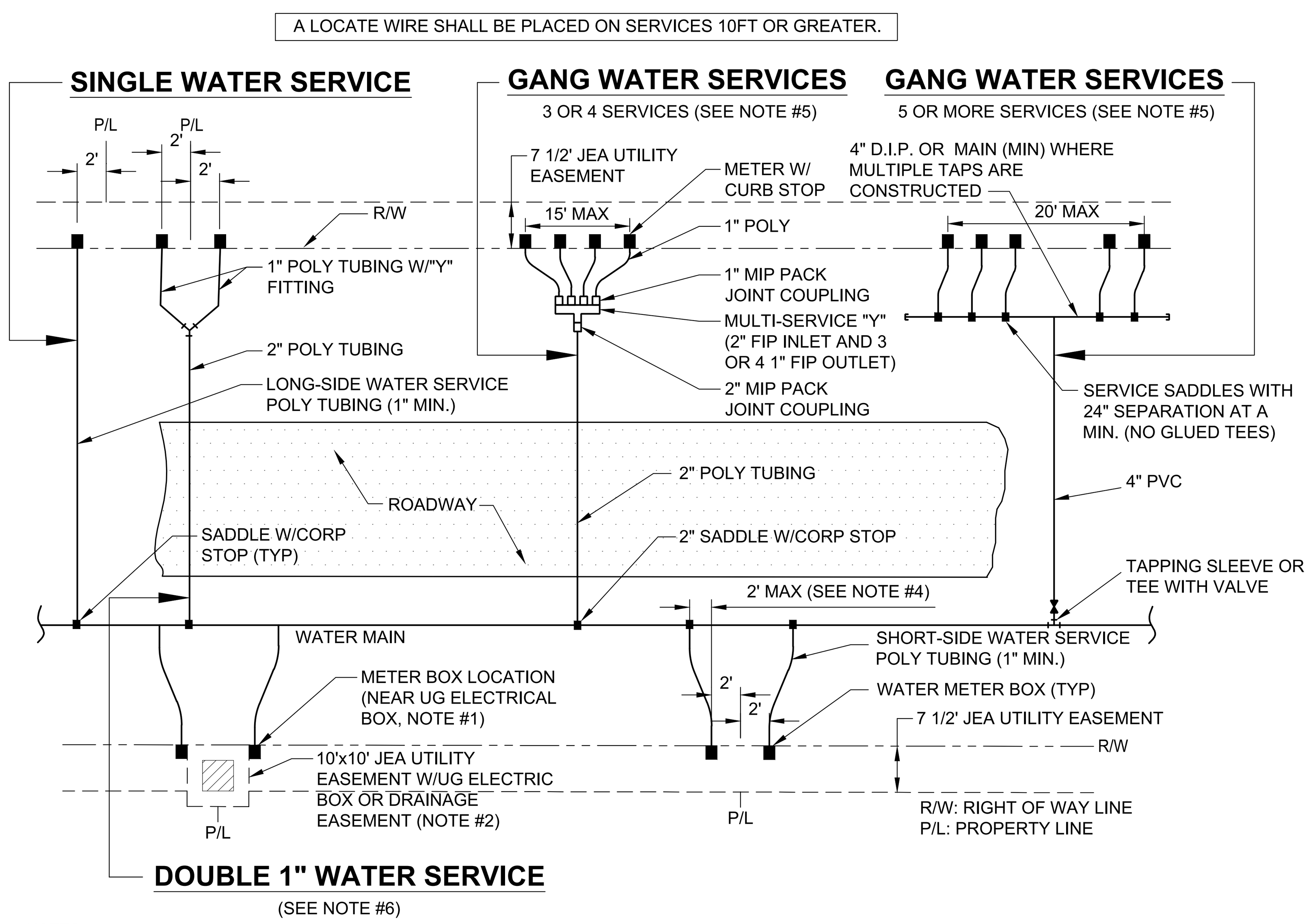
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO.	D3254953
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS 89
SHEET NO. 78
DRAWING NO. C-8.01

A LOCATE WIRE SHALL BE PLACED ON SERVICES 10FT OR GREATER.



NOTES :

1. THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS. ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. TYPICALLY, THE METER BOX SHALL LOCATED AT THE R/W LINE BUT INSIDE THE 7 1/2' ELECTRIC EASEMENT.

2. UNLESS SPECIFIED OTHERWISE BY THE APPLICABLE COUNTY (NASSAU, CLAY OR ST. JOHNS COUNTY), THE METER BOX SHALL BE LOCATED IN THE JEA 7 1/2' UTILITY EASEMENT, AND TWO FEET INSIDE OF THE PROLONGATION OF ONE OF THE SIDE PROPERTY LINES. IF A CONFLICT EXISTS WITH OTHER UTILITIES, THE METER BOX MAY BE ADJUSTED TO FOUR FEET (MAX.) INSIDE PROPERTY LINES (IN LIEU OF TWO FEET). UNLESS APPROVED OTHERWISE BY JEA, THE WATER METER BOX SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN SIDEWALKS OR DRIVEWAYS). IF THE METER BOX IS APPROVED BY JEA TO BE LOCATED IN A DRIVEWAY OR SIDEWALK, THEN THE CONSTRUCTION SHALL MEET STANDARD DETAIL NUMBERS W-3&4, AT A MINIMUM (SEE W-3 AND W-4 FOR THE REQUIREMENTS OF SPECIAL ORDER POLYMER BOX AND TOP) . SET TOP OF BOX AT FINISHED GRADE. IF AN UNAPPROVED METER BOX IS IDENTIFIED BY JEA, THEN THE CONTRACTOR OR CUSTOMER SHALL BE RESPONSIBLE FOR THE COST OF RELOCATING ANY METER BOX WHICH IS LOCATED IN THE SIDEWALK OR DRIVEWAY OR THE COST TO PROVIDE THE CORRECT METER BOX. JEA SHALL APPROVE ALL DEVIATIONS TO THE ABOVE PRIOR TO CONSTRUCTION.

3. IF DRAINAGE OR OTHER EASEMENT LOCATED BETWEEN LOTS, METER BOXES SHALL BE LOCATED AT THE EASEMENT LINE BUT OUTSIDE THE EASEMENT AREA.

4. FOR SINGLE SERVICES, THE HORIZONTAL DISTANCE (PERPENDICULAR TO THE MAIN)BETWEEN THE SERVICES SADDLE AND THE METER BOX SHALL BE 2 FEET MAXIMUM. FOR DOUBLE 1” SERVICES, THE 2” POLY MAIN SHALL BE LOCATED CENTERED BETWEEN THE TWO METER BOXES. LOCATE WIRE IS REQUIRED ON ALL SERVICES 10’ OR GREATER IN LENGTH. IF LOCATE WIRE IS REQUIRED, THE WIRE SHALL RUN FROM THE METER BOX (W/ PIG TAIL) TO THE MAIN (DEAD END SHALL BE TAPED WITH NO CONNECTION TO MAIN WIRE WITH THE LAST 24 INCHES STRIPED OF INSULATION/BARE WIRE AS GROUND). ALL EXCEPTIONS TO THIS REQUIREMENT MUST BE APPROVED BY JEA. THIS WILL ASSIST IN LOCATING EXISTING SERVICE LINES IN THE FUTURE.

5. GANG WATER SERVICES: FOR 3 OR 4 SERVICES IN ONE AREA, A DUCTICLE IRON PIPE (D.I.P.) WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG SIDE SERVICES WHERE SHOWN ON THE DRAWINGS. LOCATE WIRE SHALL EXTEND FROM ONE METER BOX TO CORP STOP AT WATER MAIN. FOR 5 OR MORE SERVICES IN ONE AREA, A WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG SIDE SERVICES WHERE SHOWN ON THE DRAWINGS (TAPS STAGGERED AND AT 2 FEET ON CENTER-MIN). FOR WATER SUPPLY HEADERS WHERE 5 OR MORE TAPS ARE CONSTRUCTED, THE HEADER PIPE SHALL BE 4" AT A MINIMUM. EXAMPLE: CONSTRUCT A 4" MAIN PVC CROSSING THE STREET FOR 5 RESIDENTIAL CUSTOMERS, UTILIZING 4" DIP, 4" PIPE, 4"X1" SADDLES AND 1" CORP STOPS (NO GLUED TEE FITTINGS). THE 4" OR LARGER D.I.P. WATER MAIN MUST BE SIZED AND DESIGNED BY THE P.E. ENGINEER.

6. DOUBLE 1" WATER SERVICES IS ALLOWED FOR SHORT SIDE OR LONG SIDE SERVICES AND WHERE SHOWN ON THE DRAWINGS.

7. A 1" IRRIGATION SERVICE MAYBE TAPPED INTO THE (1" MIN) DOMESTIC WATER SERVICE LINE (WHICH SERVES THE SAME CUSTOMER) UTILIZING A 1" BRONZE "Y" FITTING. (IN AREAS WHERE NO RECLAIMED WATER IS AVAILABLE).

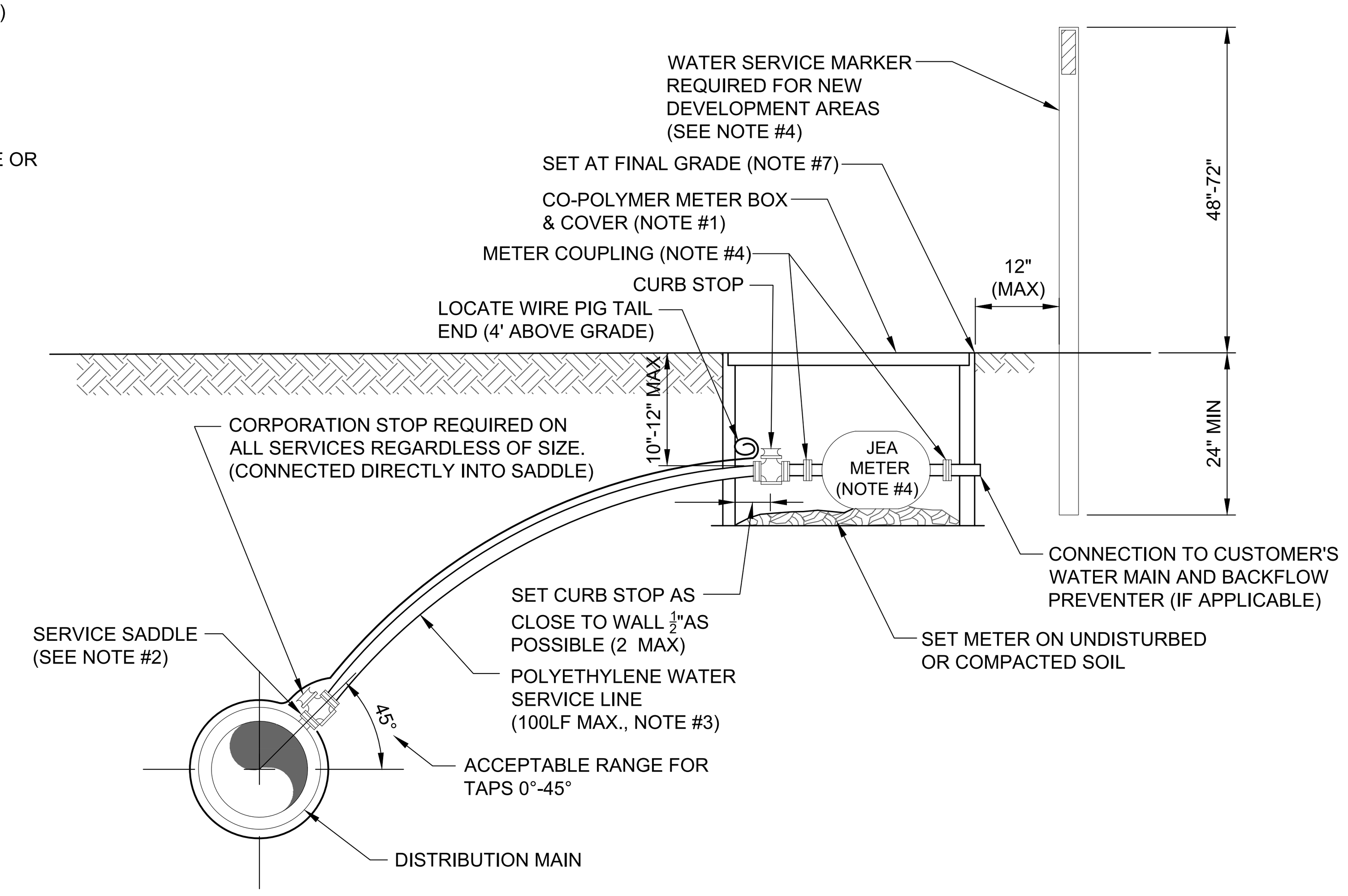
8. No 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.

9. RECLAIMED WATER METER BOXES OR SERVICES SHALL BE CONSTRUCTED SIMILAR TO THE ABOVE AND SHALL BE LOCATED, AT A MIN. OF 10' FROM THE POTABLE WATER SERVICE, AND/OR BOX AND NOT ALLOWED IN CONCRETE OR ASPHALT UNLESS APPROVED OTHERWISE BY JEA.

10. SERVICE SIZE SHALL BE SAME AS THE METER SIZE.

WATER OR RECLAIM SERVICE INSTALLATIONS 2" AND SMALLER METER

JANUARY 2021 PLATE W-1



NOTES:

1. SEE PLATE W-1 FOR METER LOCATION REQUIREMENTS.

2. SINGLE BAND SADDLES SHALL BE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION). FOR WET TAPS OR WATER MAINS 12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED. BRASS SADDLES MAY BE UTILIZED ON NEW 1 INCH AND SMALLER WATER SERVICES WHICH ARE INSTALLED ON A DRY 10 INCH OR SMALLER PVC WATER MAIN.

3. NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY J.E.A. CONSTRUCT POLY LINE WITH 24" (MIN.) COVER UNDER ROADWAYS. THE POLY WATER SERVICE LINE SHALL BE SAME SIZE AS THE METER (1" MINIMUM) AND BE INSTALLED PERPENDICULAR TO THE MAIN AND NOT EXCEED 100LF UNLESS APPROVED OTHERWISE BY JEA.

4. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (I.E.: IF NO METER IS INSTALLED). WATER SERVICES SERVING VACANT LOTS (SERVICE NOT IN USE), SHALL INCLUDE A "W" CUT INTO THE CURB (CLOSEST TO THE METER BOX), AND PAINTED BLUE (PAINTED PURPLE FOR RECLAIMED WATER). IN ADDITION, FOR NEW DEVELOPMENT AREAS WHERE THE WATER SERVICE IS "NOT IN USE", A LANDSCAPE TIMBER OR 3x3 MIN. P.T. POST (TOP PAINTED BLUE OR PURPLE FOR RECLAIMED WATER). THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HEX ON BARREL TYPE).

5. NO 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.

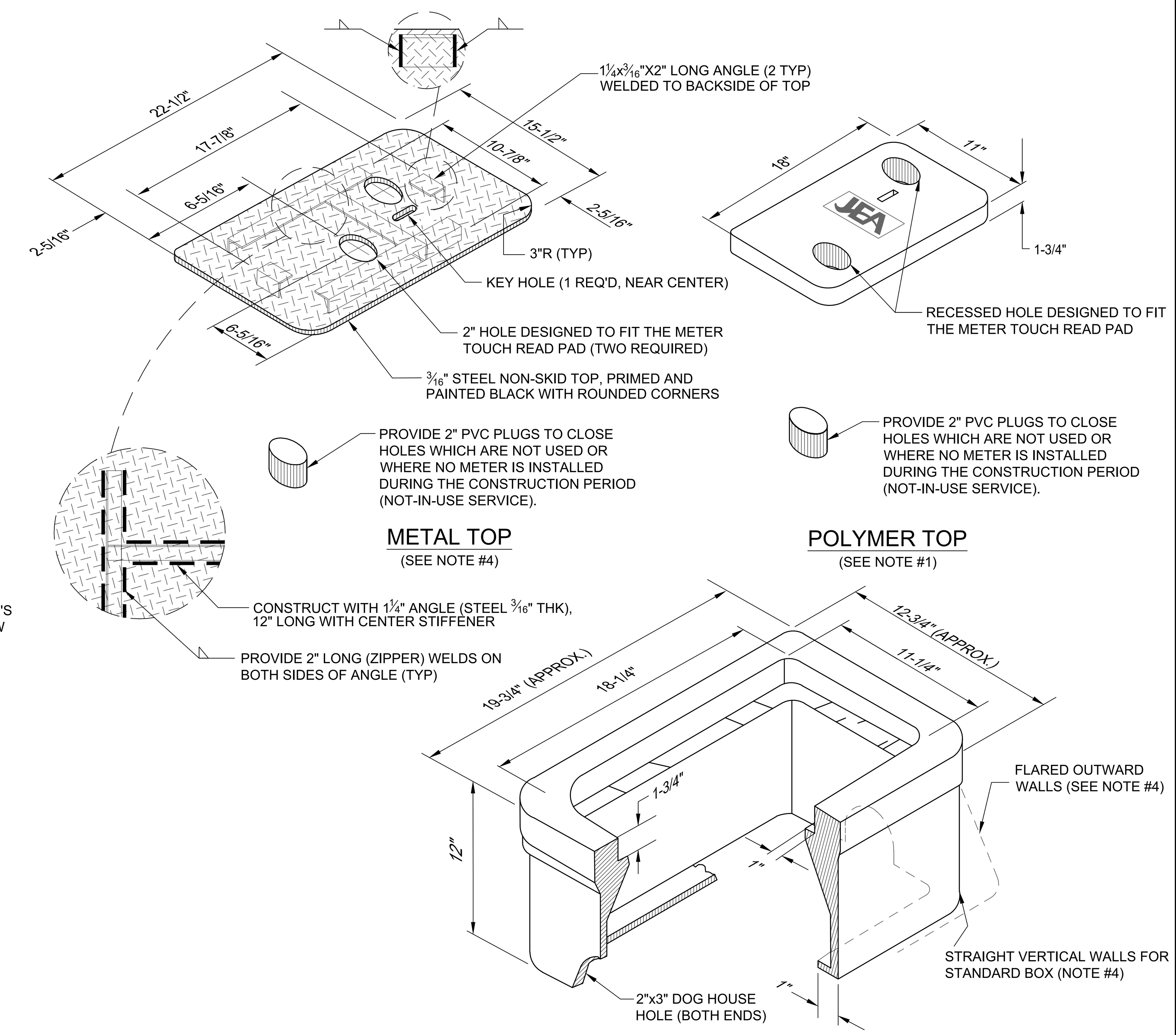
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE METER OR ELECTRONIC DEVICES IF DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.

7. METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (i.e. NO DIRT, TRASH OR OTHER DEBRIS PLACED ON TOP OF BOX).

8. LOCATE WIRING REQUIRED ON ALL SERVICES 10' OR GREATER IN LENGTH. SEE PLATE W-44.

WATER SERVICE DETAIL- 2" AND SMALLER METER

JANUARY 2021 PLATE W-2



NOTES:

1. THE STANDARD BOX (A-8 (ASTM C857) LOAD RATING WITH STRAIGHT VERTICAL WALLS) & TOP (A-8 (ASTM C857) RATING WITH 2 HOLES) SHALL BE MADE OF POLYMER CONCRETE. (SIMILAR TO OLD BROOKS SERIES 37 BOX). BOX WALLS SHALL BE FIBERGLASS. THE INSIDE LIP OF THE BOX SHALL BE RATED SAME AS THE BOX. THE ONE HOLE LIDS ARE FOR SPECIAL ORDERS ONLY AND REQUIRE JEA'S APPROVAL PRIOR TO USE.

2. ALL SIZES SHOWN ARE IN INCHES AND ARE APPROXIMATE SIZES.

3. POLYMER BOX APPROXIMATE WEIGHT 25lbs. POLYMER TOP APPROXIMATE WEIGHT 20lbs. SEE CONSTRUCTION DETAILS W-3A (TWO HOLE) AND W-3B (ONE HOLE) FOR MANUFACTURING DETAILS FOR COVERS.

4. UNLESS APPROVED OTHERWISE IN WRITING BY JEA, ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN THE ROADWAY, DRIVEWAYS OR SIDEWALKS). IF AN EXCEPTION TO THIS RULE IS APPROVED BY JEA, THEN THE FOLLOWING SHALL BE PROVIDED:
   A) UNDER NO CIRCUMSTANCE SHALL A METER BOX BE LOCATED IN A COMMERCIAL TRAFFIC AREA.
   B) IF AN EXCEPTION IS APPROVED IN WRITING THE METER BOX LOCATED IN A SIDEWALK OR RESIDENTIAL DRIVEWAY SHALL INCLUDE A POLYMER BOX WITH FLARED OUTWARD WALLS (NOT STRAIGHT WALLS) AND A POLYMER TOP. BOX AND TOP SHALL COMPLY WITH A-8 (ASTM C857), LOAD RATING.
   C) METAL TOPS MAY BE UTILIZED IF SPECIFICALLY APPROVED BY JEA MANAGER OR JEA METER O&M STAFF.

WATER METER BOX & COVER FOR 1" AND SMALLER METERS

JANUARY 2020 PLATE W-3

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
STANDARD WATER DETAILS 1

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
JEA PROJ NO.: 8004887

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 79
DRAWING NO. STD-1.01

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

	PROPOSED UTILITY											
	POTABLE WATER			WASTEWATER GRAVITY AND FORCE MAIN			RECLAIMED WATER			VACUUM SEWERS		
CONFLICTING UTILITY	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*
POTABLE WATER	3' NOTE 1	12"	3' NOTE 2	6' to 10'	12" NOTE 5	6' NOTE 2	3'	12"	6' NOTE 2	3' to 10'	12"	3' NOTE 2
RECLAIMED WATER	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2
WASTEWATER (GRAVITY AND FORCE MAIN)	6' to 10'	12"	6' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
VACUUM SEWERS	3' to 10'	12"	3' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
RIGHT OF WAYS	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A
PERMANENT STRUCTURES (SIGNS, POLES, ETC.)	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A
STORM SEWERS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
GAS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
TREES	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A
ALL OTHER UTILITIES	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2

NOTES:

1. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTH, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
2. THE MINIMUM JOINT SPACING REQUIRED FROM CROSSING FROM OTHER UTILITIES WHILE STILL MAINTAINING MINIMUM VERTICAL SEPARATION.
3. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
4. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURES.
5. WATER MAIN SHOULD CROSS ABOVE OTHER PIPES WHENEVER POSSIBLE. WHEN WATER MAIN MUST BE BELOW OTHER UTILITY PIPING, THE MINIMUM SEPARATION SHALL BE 12 INCHES.
6. REFER TO POTABLE WATER PIPING- SECTION 350, III.4.11.

SEPARATION REQUIREMENTS FOR WATER, WASTEWATER AND RECLAIMED WATER MAINS

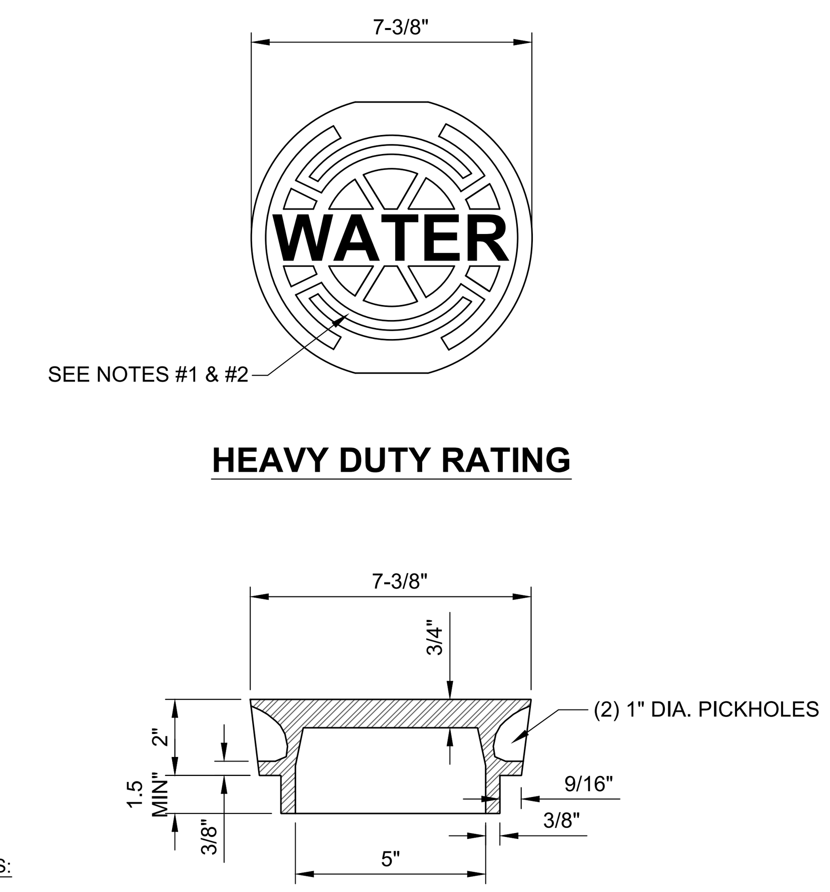
JANUARY 2021 PLATE W-10

WATER MAIN AND NON-WATER MAIN SEPARATION REQUIREMENTS - NOTES

1. IT IS REQUIRED THAT "WATER MAINS" BE INSTALLED, CLEANED, DISINFECTED AND HAVE A SATISFACTORY BACTERIOLOGICAL SURVEY PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS, CHAPTER 62-555, F.A.C. AND LATEST JEA WATER AND SEWER STANDARDS. FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER; FIRE HYDRANT LEADS; AND SERVICE LINES THAT HAVE AN INSIDE DIAMETER OF THREE (3) INCHES OR GREATER. IN ADDITION, THE PHRASE "RECLAIMED WATER" REFERS TO THE WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
2. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER.
3. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS MAY BE REDUCED TO THREE (3) FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE SEWER (SPECIAL CASE).
4. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLE TWELVE (12) INCHES, ABOVE OR AT LEAST TWELVE (12) INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
5. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS A LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
6. AT THE UTILITY CROSSINGS DESCRIBED IN NOTES 4 AND 5 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE (3) FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINE CONVEYING RECLAIMED WATER.
7. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SO THAT THE HYDRANTS ARE AT LEAST THREE (3) FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER; AT LEAST THREE (3) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER OR WASTEWATER FORCE MAIN.
8. WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE, THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER TO OBTAIN APPROVAL OF ANY ALTERNATIVE CONSTRUCTION METHODS, PRIOR TO CONSTRUCTION.

NOTES ON UTILITY SEPARATION REQUIREMENTS

JANUARY 2021 PLATE W-11

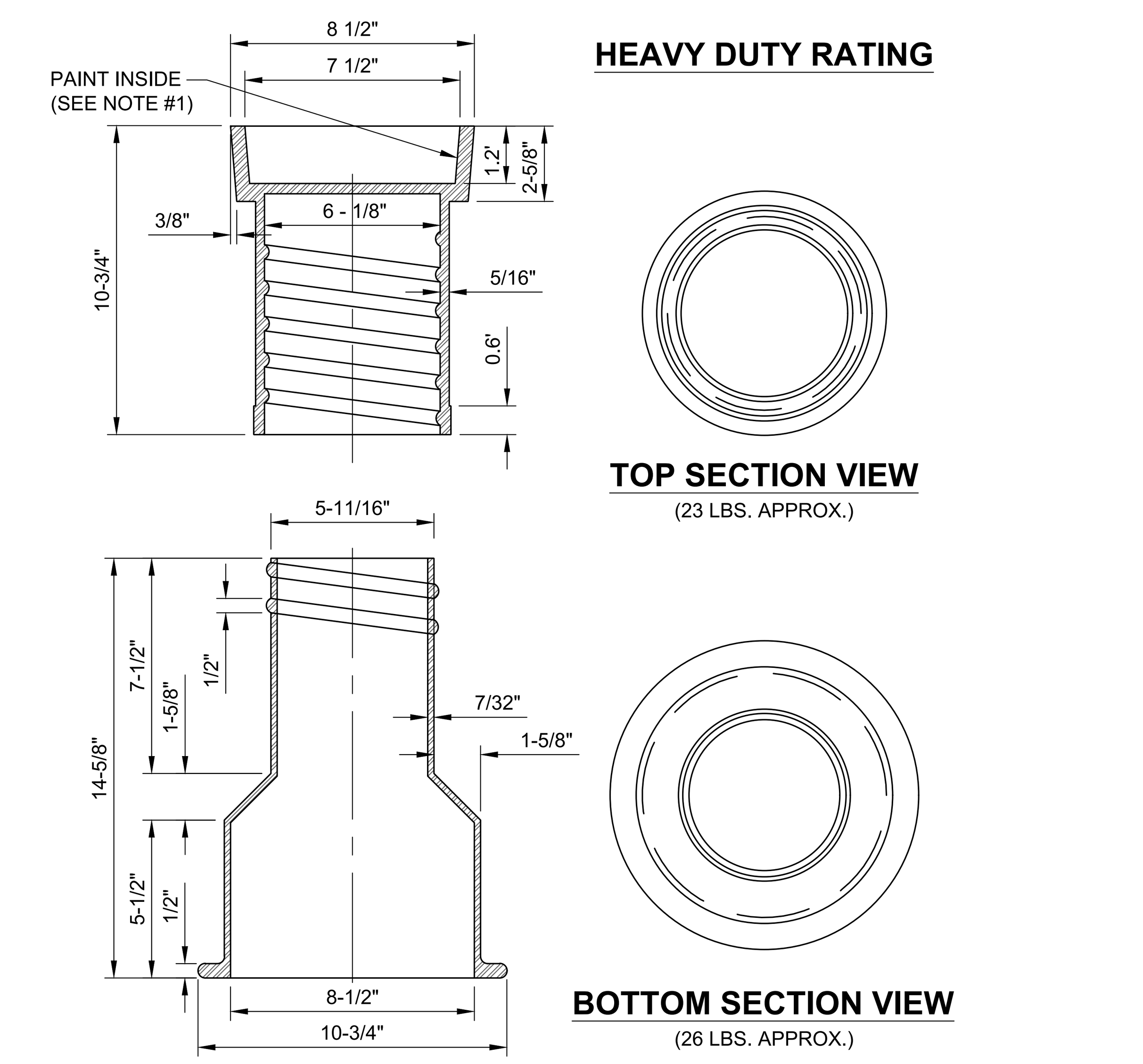


NOTES:

1. PAINT TOP OF THE COVER WITH ENAMEL PAINT (BLUE COLOR) FOR WATER.
2. FOR "REUSE" PAINT TOP PANTONE PURPLE.
3. LID WEIGHT: APPROX. 12 LBS.

WATER SYSTEM VALVE BOX COVER

JANUARY 2021 PLATE W-16

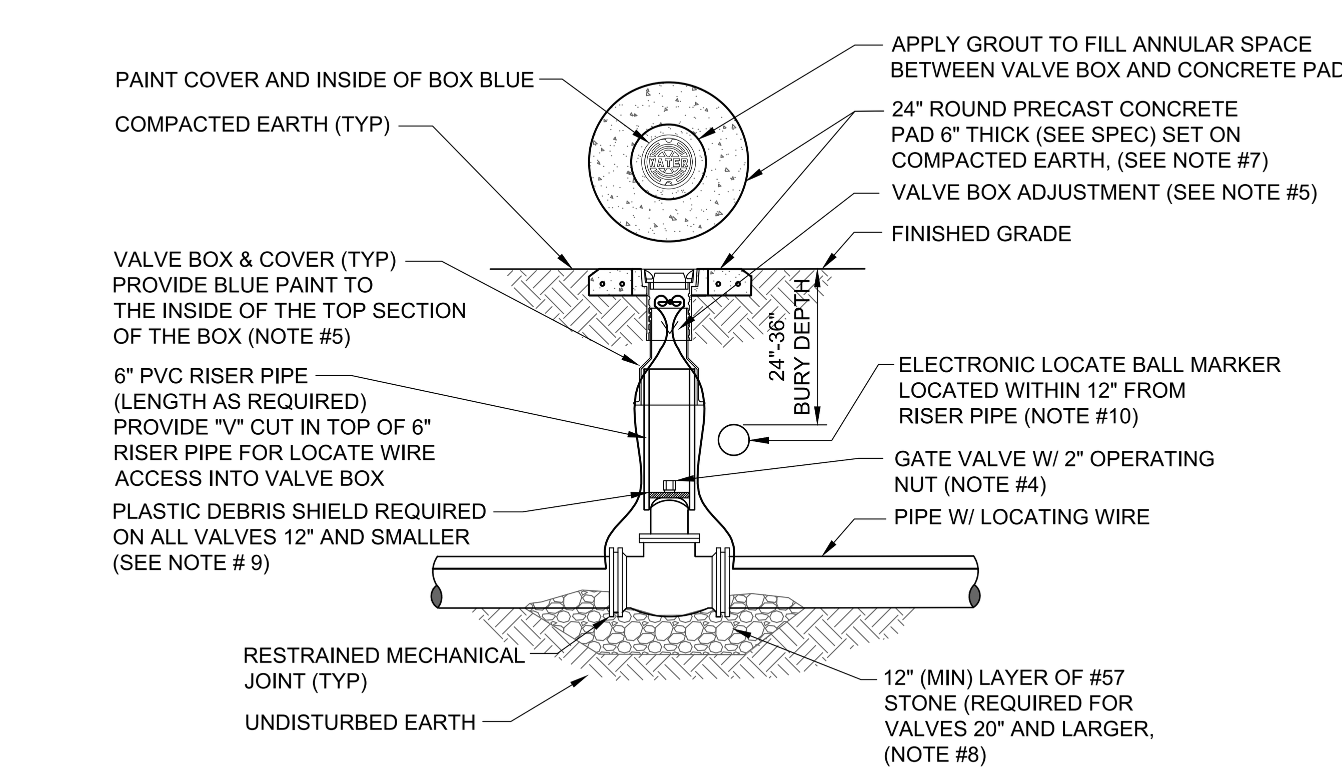


NOTES:

1. PAINT THE INSIDE OF THE TOP SECTION OF THE BOX WITH APPLICABLE COLOR (BLUE OR PURPLE)
2. HEAVY DUTY RATING (TOTAL WEIGHT APPROX. 50 LBS.).
3. REFERENCE SECTION 351, PARAGRAPH X.2.

WATER SYSTEM VALVE BOX

JANUARY 2021 PLATE W-17



NOTES:

1. FOR UNPAVED LOCATIONS, A PRECAST CONCRETE VALVE PAD SHALL BE PROVIDED AND INSTALLED FLUSH WITH GRADE. CONCRETE PAD IS NOT REQUIRED FOR VALVE LOCATED IN THE ROADWAY, UNLESS SHOWN OR NOTED OTHERWISE.
2. LOCATING WIRE IS REQUIRED ON ALL PRESSURE PIPING (SEE DETAILW-44).
3. A "V" CUT SHALL BE CARVED IN THE CURB CLOSEST/ADJACENT/(ASPHALT IF NO CURB) TO ALL BELOW GRADE VALVES. THE "V" CUT IS TO BE PAINTED BLUE WATER/PURPLE RECLAIMED.
4. IN PAVED AREAS, INSTALL VALVE AT A DEPTH TO ALLOW A 12" MIN. DISTANCE BETWEEN THE VALVE COVER PLATE AND THE TOP OF THE VALVE OPERATING NUT. OUTSIDE OF PAVED AREAS (GRASS), INSTALL VALVE AT A DEPTH TO ALLOW A 6" MINIMUM DISTANCE BETWEEN THE VALVE COVER AND THE TOP OF THE VALVE OPERATING NUT. OPERATING NUT/STEM EXTENSION SHALL BE PROVIDED (WHERE APPLICABLE) SO THAT THE OPERATING NUT WILL BE NO MORE THAN 30 INCHES BELOW FINISHED GRADE.
5. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS. ROUTE LOCATE WIRES THRU A "V" CUT IN THE TOP OF THE 6" PVC RISER PIPE FOR LOCATE WIRE ACCESS INTO VALVE BOX. THE LOCATE WIRES WITH A 24" LONG PIG-TAIL AT THE TOP SHALL BE CONNECTED TOGETHER WITH A WIRE NUT.
6. BRASS IDENTIFICATION TAG INDICATING "WATER", VALVE SIZE, DIRECTION AND TURNS TO OPEN & VALVE TYPE. PROVIDE A $\frac{1}{4}$" HOLE IN BRASS TAG AND ATTACH TAG (TWIST WIRE AROUND TAG) TO THE END OF THE LOCATE WIRE. TAGS ARE NOT REQUIRED ON VALVES INSTALLED ON FIRE HYDRANT BRANCH LINES.
7. IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (ROUND OR SQUARE) POURED CONCRETE PAD W/2 - #4 REBAR AROUND PERIMETER, MAY BE USED.
8. GRAVEL SHALL BE PROVIDED UNDER ALL VALVES 20" AND LARGER. THE MINIMUM VERTICAL LIMIT OF GRAVEL IS 12" UNDER THE VALVE UP TO $\frac{1}{3}$ THE OVERALL HEIGHT OF THE VALVE.
9. FOR VALVES 12 INCH AND SMALLER, PROVIDE A WHITE OR BLACK PLASTIC DEBRIS SHIELD WHICH INSTALLS BELOW THE OPERATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE OPERATING NUT AND MINIMIZE INFILTRATION. SHIELD SHALL BE BY AFC, BOXLOK OR APPROVED EQUAL.
10. ALL VALVES SHALL BE INSTALLED WITH AN ELECTRIC LOCATE MARKER. MARKER SHALL BE 4" DIA. COLOR CODED BALL MARKER (3M-1403XR FOR WATER AND 1408XR FOR RECLAIMED WATER).

WATER VALVE INSTALLATION DETAIL

JANUARY 2021 PLATE W-18

Jacobs
200 WEST FORSYTH STREET, SUITE 1520 JACKSONVILLE, FL 32202
T: (904) 636-5432 F:(904) 224-3102 COA # 2822

NO.	BY	DATE	REVISIONS
6.			
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

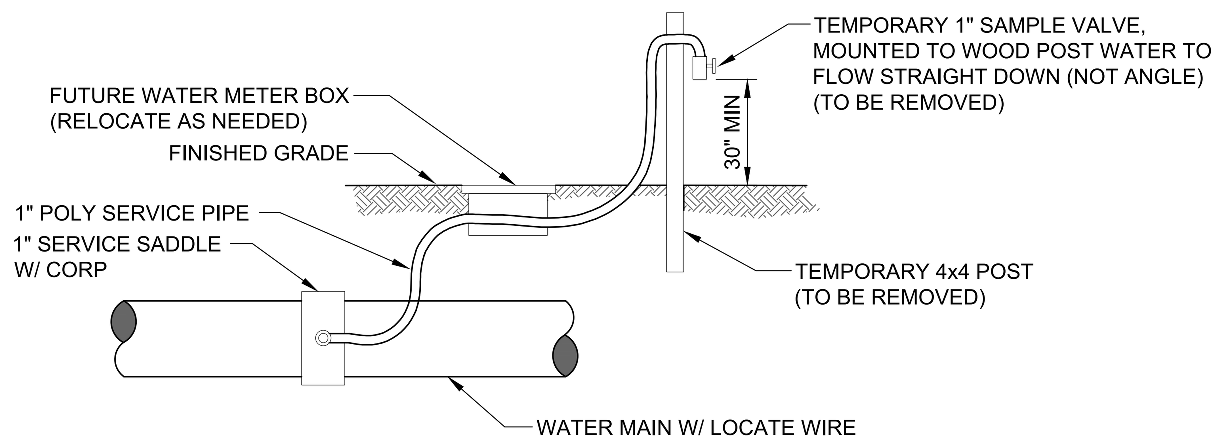
JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
STANDARD WATER DETAILS 2

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 80
DRAWING NO. STD-1.02

JEA PROJ NO.: 8004887 PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP



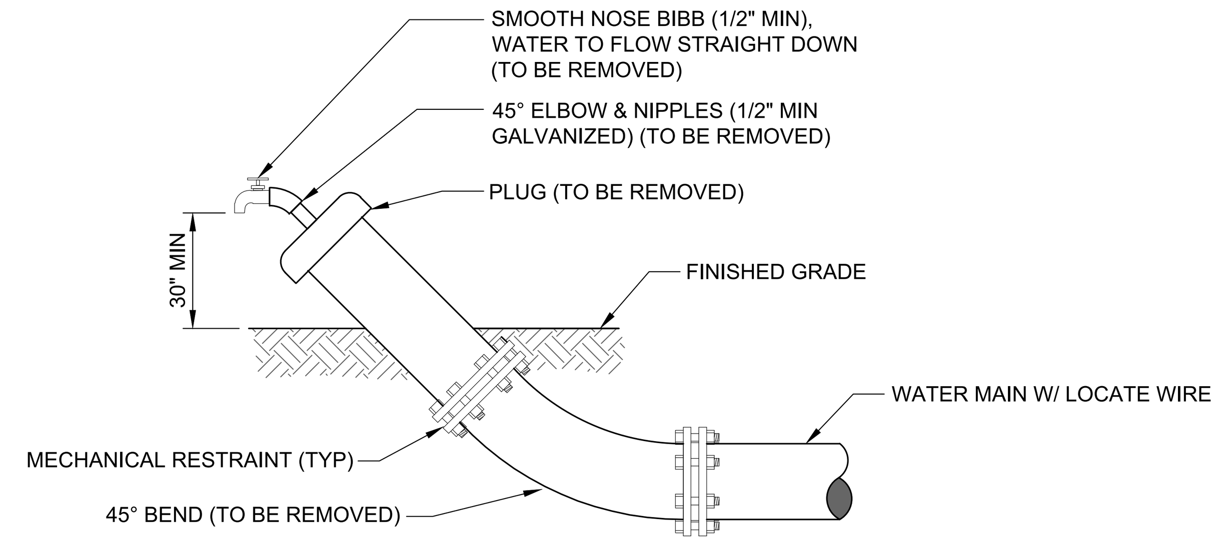
TEMPORARY SAMPLE TAP UTILIZING A NEW 1" WATER SERVICE

NOTES::

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROAD SHOULDERS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. THE CONTRACTOR SHALL UTILIZE THE ABOVE ALTERNATIVE METHODS FOR CONSTRUCTION OF TEMPORARY SAMPLE POINTS IN ALL AREAS, WHERE POSSIBLE.
4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

TEMPORARY SAMPLE TAP ALTERNATIVE METHOD A

JANUARY 2021 PLATE W-24



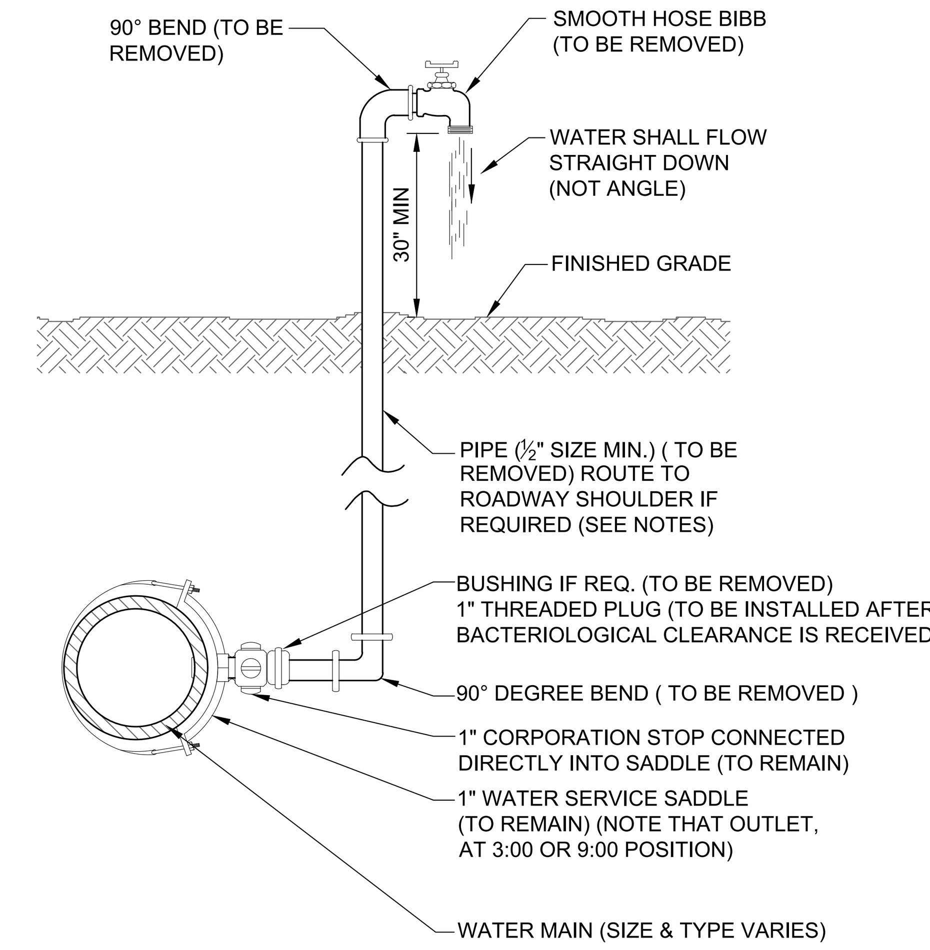
TEMPORARY SAMPLE TAP UTILIZING PLUG AT FLUSHING LOCATION

NOTES::

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROAD SHOULDERS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. THE CONTRACTOR SHALL UTILIZE THE ABOVE ALTERNATIVE METHODS FOR CONSTRUCTION OF TEMPORARY SAMPLE POINTS IN ALL AREAS, WHERE POSSIBLE.
4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

TEMPORARY SAMPLE TAP ALTERNATIVE METHOD B

JANUARY 2021 PLATE W-24A

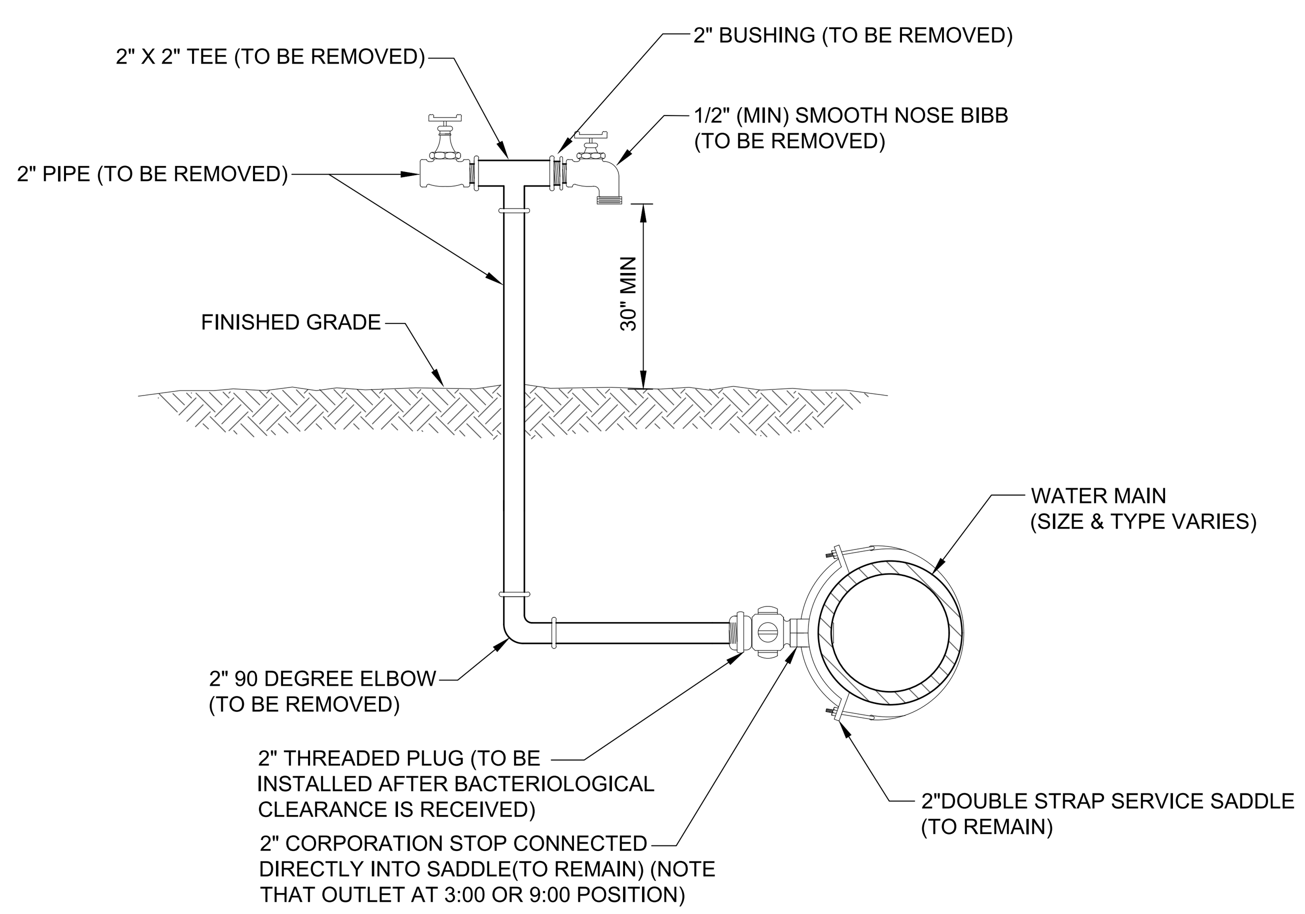


NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED), AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. PIPE AND FITTINGS SHALL BE PVC (SCH. 40) OR GALV. MATERIAL.
4. THE USE OF THE ABOVE CONSTRUCTION FOR A TEMPORARY SAMPLE POINT SHALL BE LIMITED TO AREAS WHERE A SAMPLE TAP BY ALTERNATIVE METHODS (SEE W-24) IS NOT FEASIBLE OR IF DIRECTED OTHERWISE BY JEA.
5. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS AS OUTLINED BY JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

TEMPORARY SAMPLE TAP

JANUARY 2021 PLATE W-25

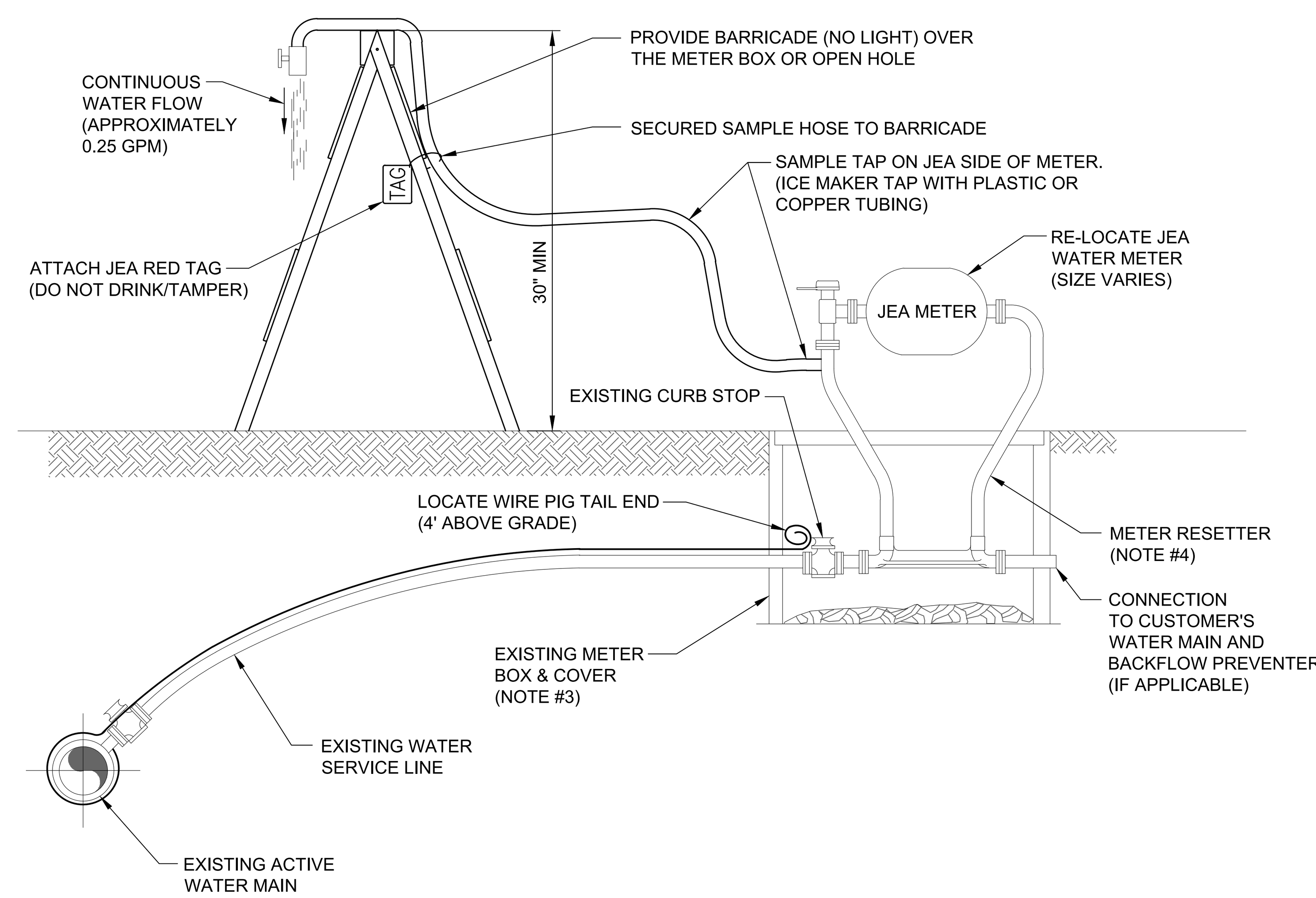


NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. ALL PIPE & FITTING SHALL BE GALVANIZED MATERIAL OR PVC (S-40).
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTING (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED
4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

2" TEMPORARY SAMPLE TAP FOR STUB OUT

JANUARY 2021 PLATE W-26

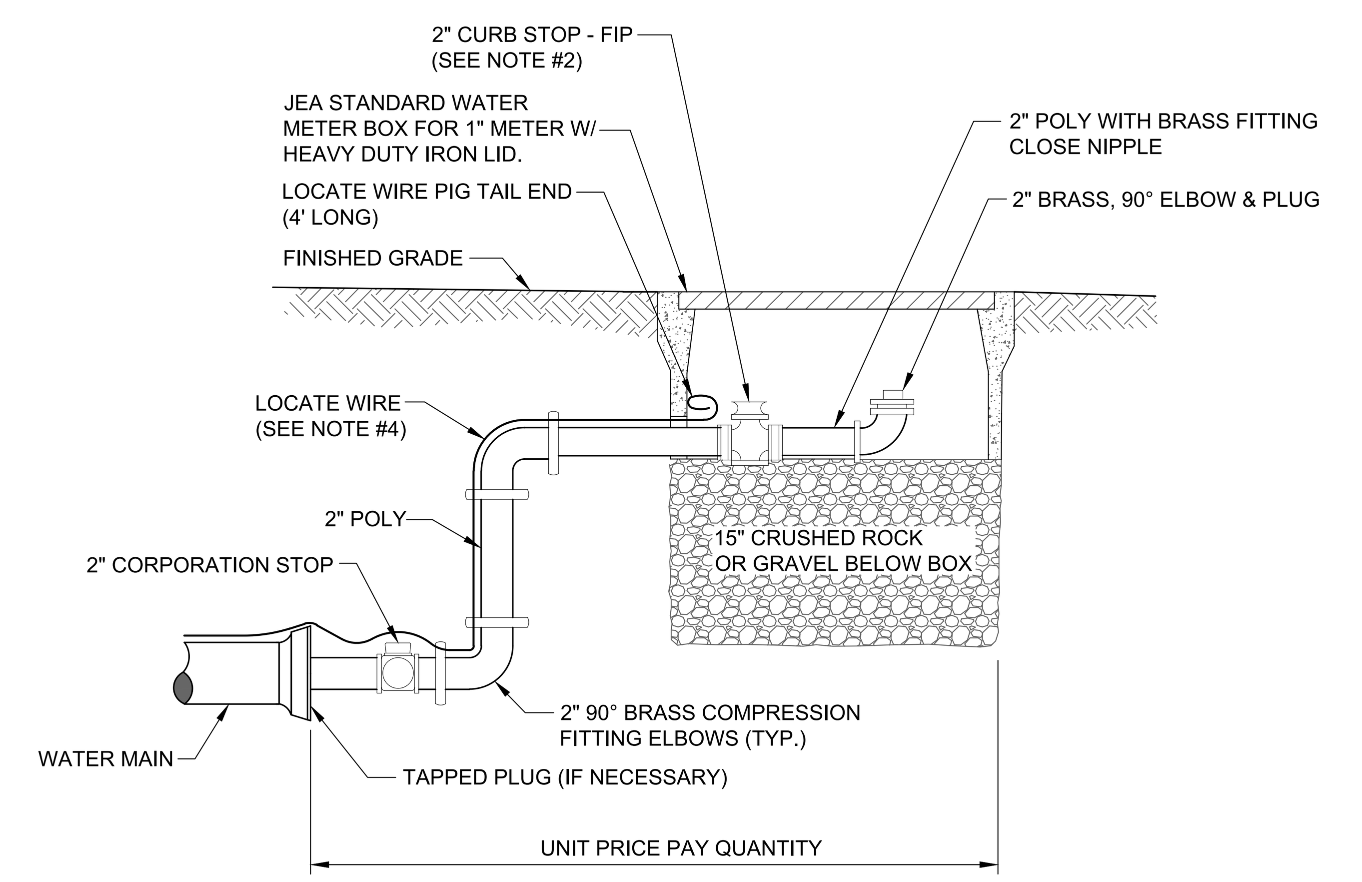


NOTES :

1. THE ABOVE TEMPORARY WATER SAMPLE TAP IS FOR USE ON ACTIVE WATER MAINS. GENERALLY, THIS SAMPLE TAP IS INSTALLED ADJACENT TO EACH WATER MAIN VALVE BEING CLOSED DURING A WATER OUTAGE. WHEN REQUIRED, THE CONTRACTOR SHALL PROVIDE THE ABOVE TEMPORARY SAMPLE TAP AND THEN REMOVE/RESTORE THE WATER METER SERVICE AFTER BACTERIOLOGICAL CLEARANCE.
2. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS. THESE SERVICES SHALL INCLUDE, AT A MINIMUM, ASSISTANCE WITH OUTAGE SIMULATIONS, ASSISTANCE WITH THE PREPARATION OF CUSTOMER NOTIFICATION AND OR BOIL WATER NOTICES, DISTRIBUTION OF CUSTOMER NOTIFICATIONS AND COORDINATION WITH ERC AND THE JEA ON-SITE REPRESENTATIVES.
3. CONTRACTOR SHALL REMOVE METER BOX LID AND SET IT NEXT TO THE BOX. THE CONTRACTOR SHALL REPAIR, AT THE CONTRACTORS EXPENSE, ANY DAMAGE TO THE ELECTRONIC NMR/MTU IF DAMAGED DURING THE ABOVE BACTERIOLOGICAL TEST PERIOD AND REMOVED AFTER BACTERIOLOGICAL CLEARANCE.
4. A METER "RESETTER" SHALL BE INSTALLED AND REMOVED AFTER BACTERIOLOGICAL CLEARANCE AS SHOWN. THE RESETTER SHALL INCLUDE AN ANGLED INVERTED KEY METER VALVE ON THE INLET, METER COUPLINGS, 12-INCH RISE AND SIZED TO FIT THE ACTUAL FIELD METER THREADS. ACCEPTABLE: FORD 40 SERIES, MUELLER H-14118 OR JEA APPROVED EQUAL.

TEMPORARY SAMPLE TAP FOR IN-SERVICE MAINS

JANUARY 2021 PLATE W-27



NOTES:

1. PIPE SHALL BE POLYETHYLENE. FITTINGS SHALL BE BRASS.
2. THE 2" CURB STOP SHALL BE ALL BRONZE. FITTINGS SHALL BE BRASS.
3. ANY RECLAIMED WATER VALVE SHALL HAVE RECLAIMED EMBLEM.
4. LOCATE WIRE FOR 10' OR GREATER IN LENGTH.
5. CANNOT BE PLACED UNDER CONCRETE OR PAVEMENT.
6. PLACE 2 FEET PAST LAST WATER MAIN SERVICE CONNECTION.

FLUSHING VALVE BELOW GRADE

JANUARY 2021 PLATE W-28

Jacobs
200 WEST FORSYTH STREET, SUITE 1520 JACKSONVILLE, FL 32202
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NO.	BY	DATE	REVISIONS
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1.			

DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
STANDARD WATER DETAILS 3

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
JEA PROJ NO.: 8004887

NO. SHEETS 89	PROJ. NO. D32549S3
SHEET NO. 81	DATE: MAY 2021
DRAWING NO. STD-1.03	SCALE: AS SHOWN

LENGTH (L) TO BE RESTRAINED (SEE PLATE Nos. 38C & 38D FOR ADDITIONAL DETAILS)

NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS 90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	VERTICAL OFFSETS 45° BENDS (SEE NOTE 4) UPPER L (FT.)	LOWER L (FT.)	VALVES OR DEAD ENDS L (FT.)
4	21	9	5	3	17	3	47
6	30	13	6	3	23	4	66
8	38	16	8	4	30	6	86
10	45	19	9	5	36	7	103
12	53	22	11	6	43	8	121
14	61	26	13	6	50	9	140
16	66	28	14	7	55	10	154
18	73	30	15	8	60	11	170
20	79	33	16	8	66	12	186
24	79	33	16	8	77	15	185
30	93	39	19	10	97	17	222
36	106	39	21	11	107	20	257
42	117	49	24	12	120	24	289
48	144	53	26	13	133	26	321

REDUCERS SIZE (IN.)	L (FT.)
6x4	34
8x6	36
8x4	62
10x8	35
10x6	63
12x10	36
12x8	64
16x12	66
16x10	92
20x18	35
20x16	66
20x12	117
24x20	56
24x18	80
24x16	101
30x24	78
30x20	121
36x30	78
36x24	141
42x36	75
42x30	140
48x42	75
48x36	139

TEES SEE NOTE 5 RUN SIZE (IN.)	BRANCH SIZE (IN.)	L (FT.)
4	4	F.O.
4	6 4 < LESS	10 F.O.
8	8 6 < LESS	29 F.O.
10	10 8 6 < LESS	45 13 F.O.
12	12 10 8 < LESS	62 32 F.O.
16	16 12 10 10 < LESS	94 39 5 F.O.
20	20 16 12 10 < LESS	125 76 14 F.O.
24	24 20 16 12 < LESS	124 84 36 F.O.
30	30 24 20 16 16 < LESS	159 104 60 5 F.O.
36	36 30 24 20 16 < LESS	192 142 83 33 F.O.
42	42 36 30 24 20 16 < LESS	223 178 124 59 5 F.O.
48	48 42 36 30 24 20 < LESS	253 209 162 104 34 F.O.

F.O. = FITTING ONLY

PVC PIPE RESTRAINT NOTES:

1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: PVC PIPE, SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE.
3. BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
4. VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, Lu IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. Li IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
6. HDPE TO PVC TRANSITIONS: THE PVC PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).
7. THE INSTALLATION OF BELL HARNESS RESTRAINTS AT PVC JOINTS (DR-18 & 25 PIPE) SHALL BE COMPLETED PER THE MANUFACTURERS RECOMMENDATION, WHICH INCLUDES NOT OVER TIGHTENING THE PARALLEL RODS/NUTS. THESE NUTS SHOULD ONLY BE SNUG TIGHT. THE HOME MARKS ON THE PIPE SHOULD ALWAYS BE VISIBLE AFTER THE RESTRAINT IS INSTALLED. OVERHOMING THE JOINT MAY CAUSE A FAILURE AT THE BELL RESULTING IN A SERVICE OUTAGE.

PVC PIPE RESTRAINT JOINT SCHEDULE

JANUARY 2021 PLATE W-31A

LENGTH (L) TO BE RESTRAINED (SEE PLATE Nos. 38C & 38D FOR ADDITIONAL DETAILS)

NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS 90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	VERTICAL OFFSETS 45° BENDS (SEE NOTE 4) UPPER L (FT.)	LOWER L (FT.)	VALVES OR DEAD ENDS L (FT.)
4	17	7	4	2	11	3	30
6	24	15	5	3	15	4	42
8	31	13	6	3	20	5	55
10	36	15	8	4	23	6	65
12	42	18	9	5	27	7	77
14	48	20	10	5	31	7	87
16	53	22	11	6	35	8	97
18	58	24	12	6	39	9	107
20	63	27	13	6	42	10	118
24	63	27	13	7	49	12	118
30	75	31	15	8	59	14	141
36	86	36	17	9	68	17	163
42	95	40	19	10	76	19	183
48	117	43	21	11	84	21	203

REDUCERS SIZE (IN.)	L (FT.)
6x4	22
8x6	23
8x4	39
10x8	22
10x6	40
12x10	23
12x8	41
16x12	42
16x10	58
20x18	22
20x16	42
20x12	74
24x20	36
24x18	51
24x16	64
30x24	50
30x20	77
36x30	50
36x24	89
42x36	48
42x30	89
48x42	48
48x36	88

TEE SEE NOTE 5 RUN SIZE (IN.)	BRANCH SIZE (IN.)	L (FT.)
4	4	F.O.
4	6 4 < LESS	6 F.O.
8	8 6 < LESS	19 F.O.
10	10 8 6 < LESS	29 9 F.O.
12	12 10 8 < LESS	40 21 F.O.
16	16 12 10 8 < LESS	60 25 3 F.O.
20	20 16 12 10 < LESS	79 48 9 F.O.
24	24 20 16 12 < LESS	79 54 23 F.O.
30	30 24 20 16 12 < LESS	101 66 38 4 F.O.
36	36 30 24 20 16 12 < LESS	122 90 53 21 1 F.O.
42	42 36 30 24 20 16 12 < LESS	141 113 79 38 3 1 F.O.
48	48 42 36 30 24 20 < LESS	160 133 103 66 22 F.O.

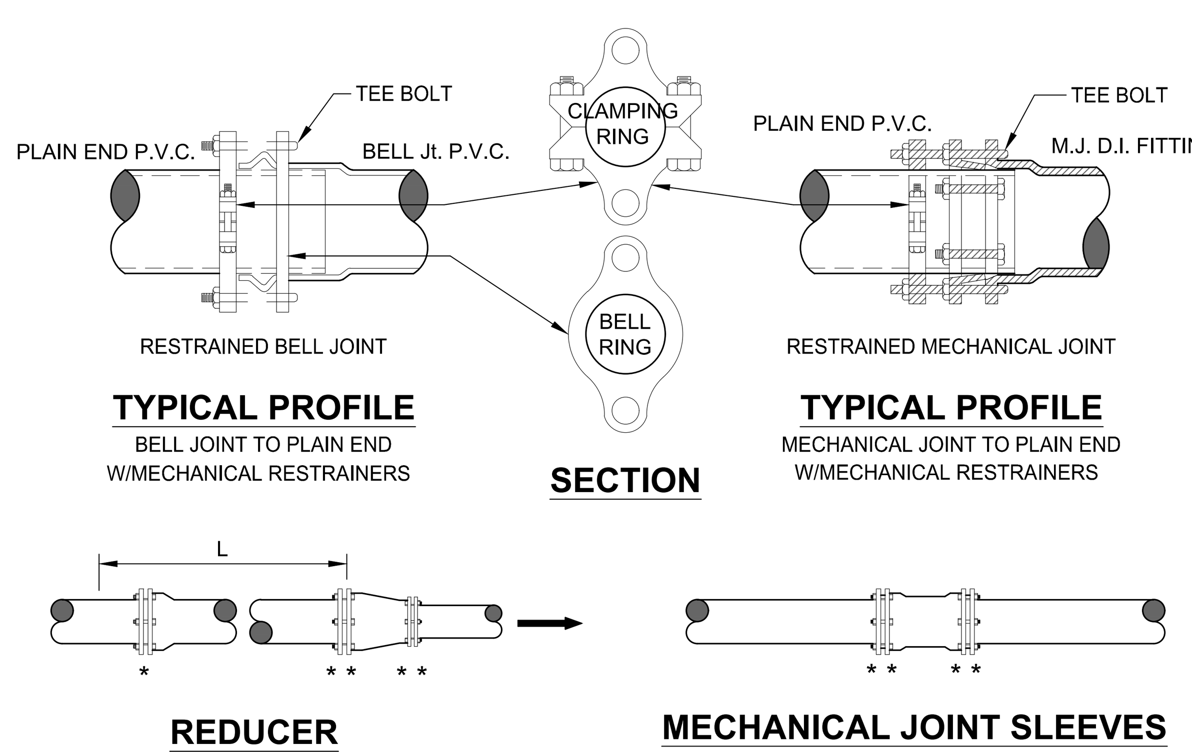
F.O. = FITTING ONLY

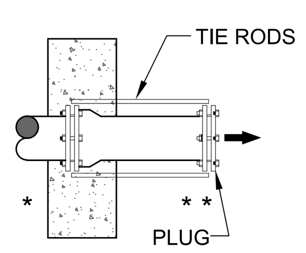
DUCTILE IRON PIPE RESTRAINT NOTES:

1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: DUCTILE IRON PIPE (WITHOUT POLY WRAP), SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE. FOR D.I.P. WITH POLY WRAP, USE RESTRAINT JOINT SCHEDULE FOR ~~PVC PIPE~~. DIP WITH POLYETHYLENE WRAP BELOW.
3. BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
4. VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, Lu IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. Li IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
6. HDPE TO D.I.P. TRANSITIONS: THE D.I.P. PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).

DUCTILE IRON PIPE RESTRAINT JOINT SCHEDULE

JANUARY 2021 PLATE W -31B



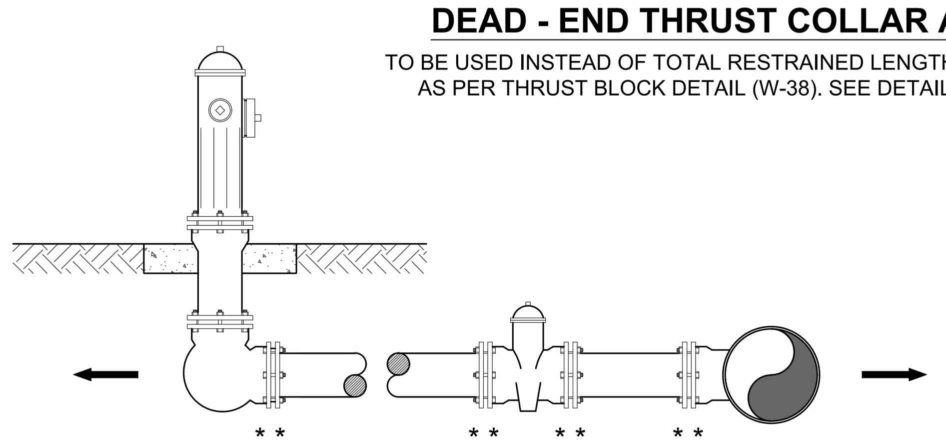


NO. OF TIE RODS REQUIRED

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.



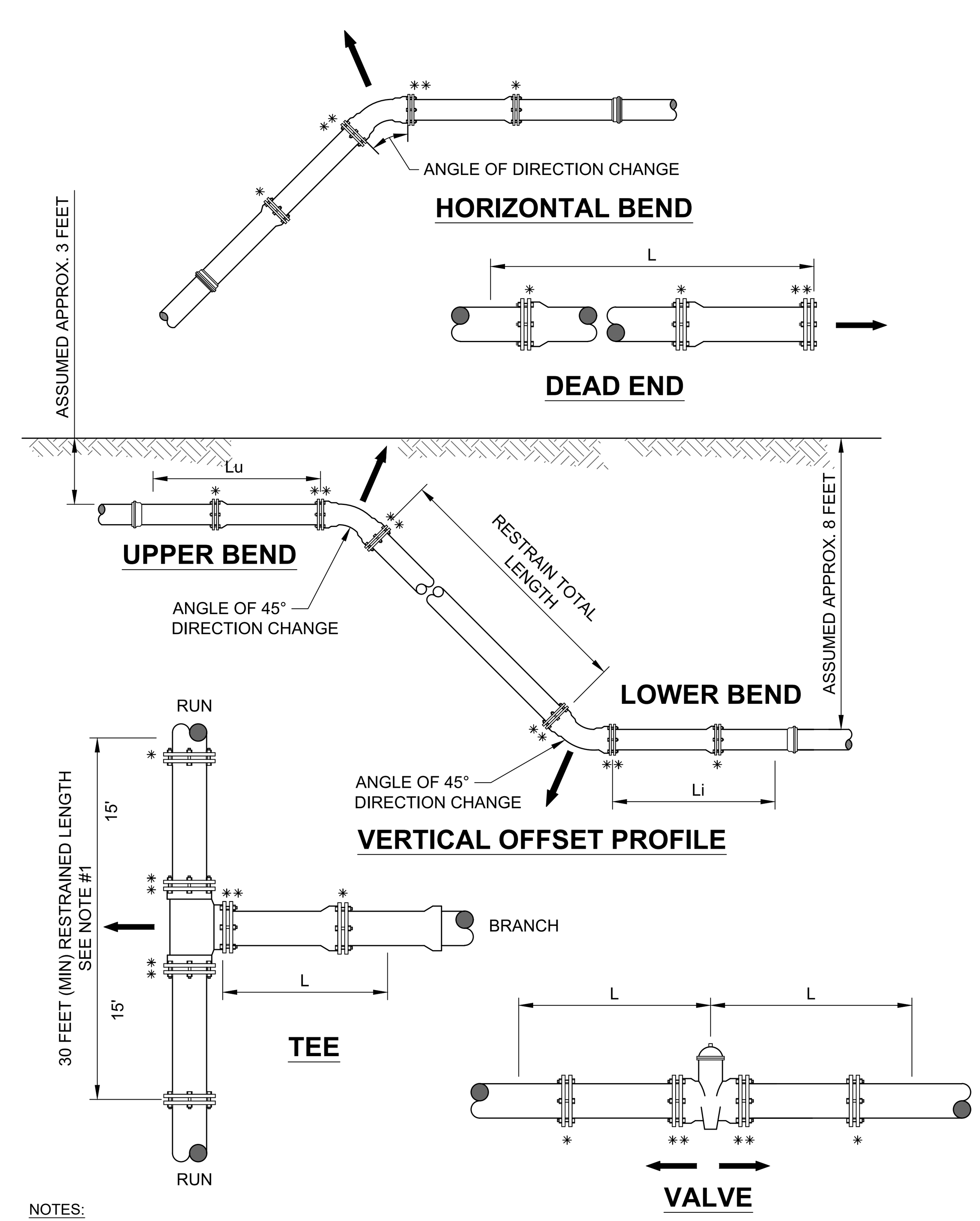
FIRE HYDRANT LATERAL

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 2021 PLATE W-31C



NOTES:

1. TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN.).
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 2021 PLATE W-31D

LENGTH (L) TO BE RESTRAINED

NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS 45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	VERTICAL OFFSETS 45° BENDS (SEE NOTE 4) UPPER L (FT.)	LOWER L (FT.)	VERTICAL OFFSETS 22.5° BENDS (SEE NOTE 7) UPPER L (FT.)	LOWER L (FT.)	VERTICAL OFFSETS 11.25° BENDS (SEE NOTE 8) UPPER L (FT.)	LOWER L (FT.)	30"X30" TEE L (FT.)	VALVES OR DEAD ENDS L (FT.)
30	45	22	11	136	20	66	13	33	9	235	328

DUCTILE IRON PIPE WITH POLYETHYLENE WRAP RESTRAINT NOTES:

1. THIS SCHEDULE SHALL BE UTILIZED ON ALL DIP WATER MAINS WITH POLYETHYLENE ENCASEMENT. ALL FITTINGS AND VALVES SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: DUCTILE IRON PIPE (WITH POLY WRAP), SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=36 INCHES. FOR D.I.P. WITHOUT POLYETHYLENE WRAP USE RESTRAINT JOINT SCHEDULE FOR DIP (ABOVE, THIS SHEET).
3. BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
4. 45 DEGREE VERTICAL OFFSETS: ASSUMPTIONS ARE 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS. Lu IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. Li IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL.
5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OR 30 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
6. HDPE TO D.I.P. TRANSITIONS: THE D.I.P. PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).
7. 22.5 DEGREE VERTICAL OFFSETS: ASSUMPTIONS ARE 3 FEET COVER ON TOP AND APPROX. 6 FEET COVER ON BOTTOM. PER THE DETAILS, Lu IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. Li IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL.
8. 11.25 DEGREE VERTICAL OFFSETS: ASSUMPTIONS ARE 3 FEET COVER ON TOP AND APPROX. 4 FEET COVER ON BOTTOM. PER THE DETAILS, Lu IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. Li IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL.

DUCTILE IRON PIPE WITH POLYETHYLENE WRAP RESTRAINT JOINT SCHEDULE

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COA # 2822

REVISIONS: NO. | BY | DATE (6, 5, 4, 3, 2, 1)

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FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CGJ
DATE: MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
STANDARD WATER DETAILS 4

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 82
DRAWING NO. STD-1.04

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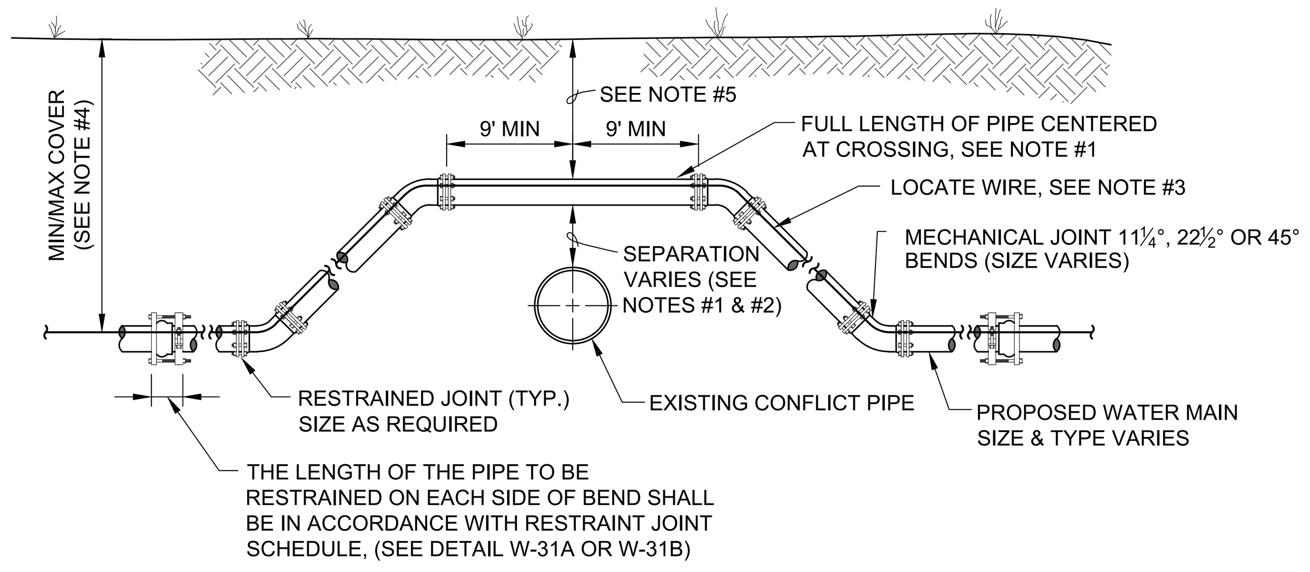


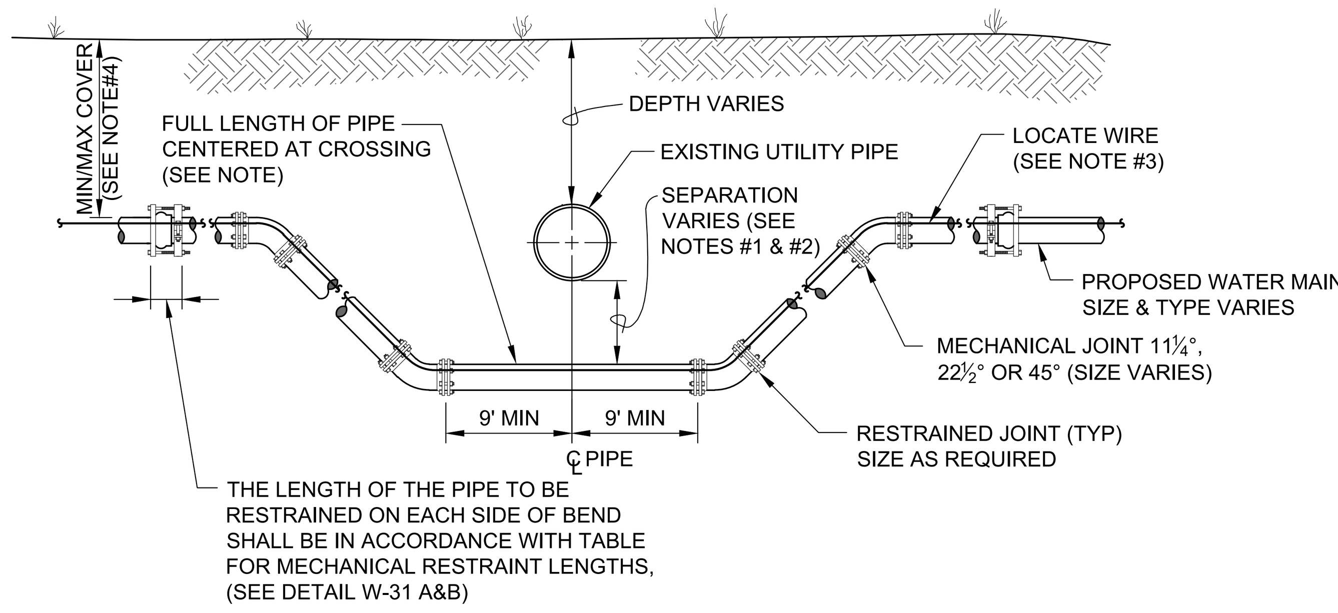
CASE "A" CROSSING

NOTES:

1. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.
2. FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE DETAIL (W-10 AND W-11).
3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.
4. THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREAS, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
5. IF UTILITY CONFLICT IS LOCATED IN A NON-TRAFFIC AREA (NO TRAFFIC LOADS) AND THE NEW PIPE IS D.I.P., THEN THE MINIMUM COVER MAY BE REDUCED TO 24 INCHES (ONLY IN THE AREA OF THE CONFLICT).

ADJUSTMENT OVER EXISTING UTILITIES MECHANICAL RESTRAINTS

JANUARY 2021 PLATE W-32



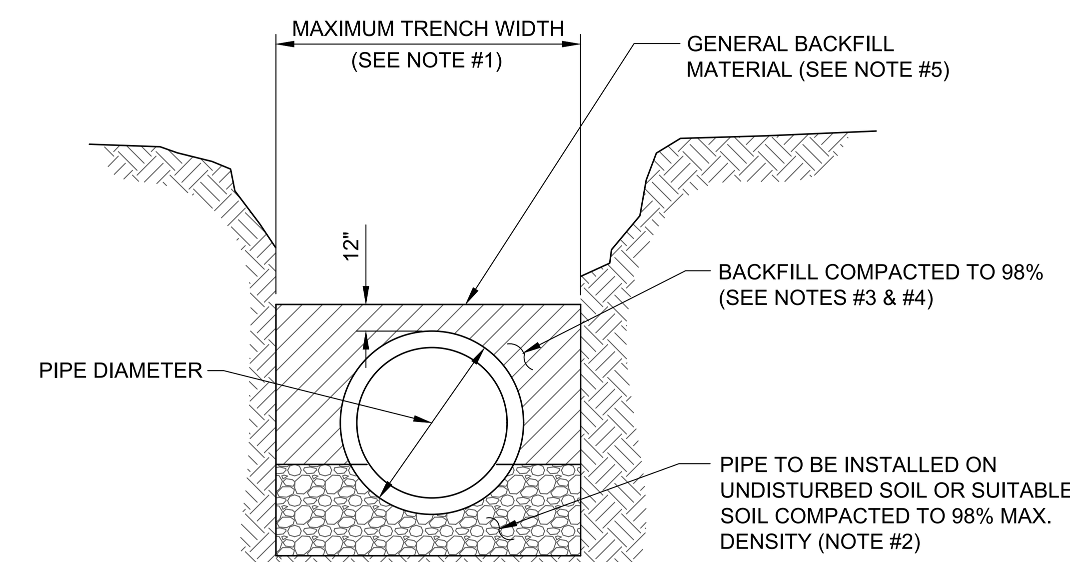
CASE "B" CROSSING

NOTES:

1. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557
2. FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE DETAILS (W-10 AND W-11)
3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.
4. THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREA, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
5. IN LOCATIONS WHERE WATER/RECLAIM MAINS CROSS UNDER A BOX-CULVERT, OR 36-INCH DIAMETER AND LARGER STORM WATER MAIN, JEA WILL REQUIRE DIP TO BE UTILIZED FOR THE MAIN.

ADJUSTMENT UNDER EXISTING UTILITIES MECHANICAL RESTRAINTS

JANUARY 2021 PLATE W-34



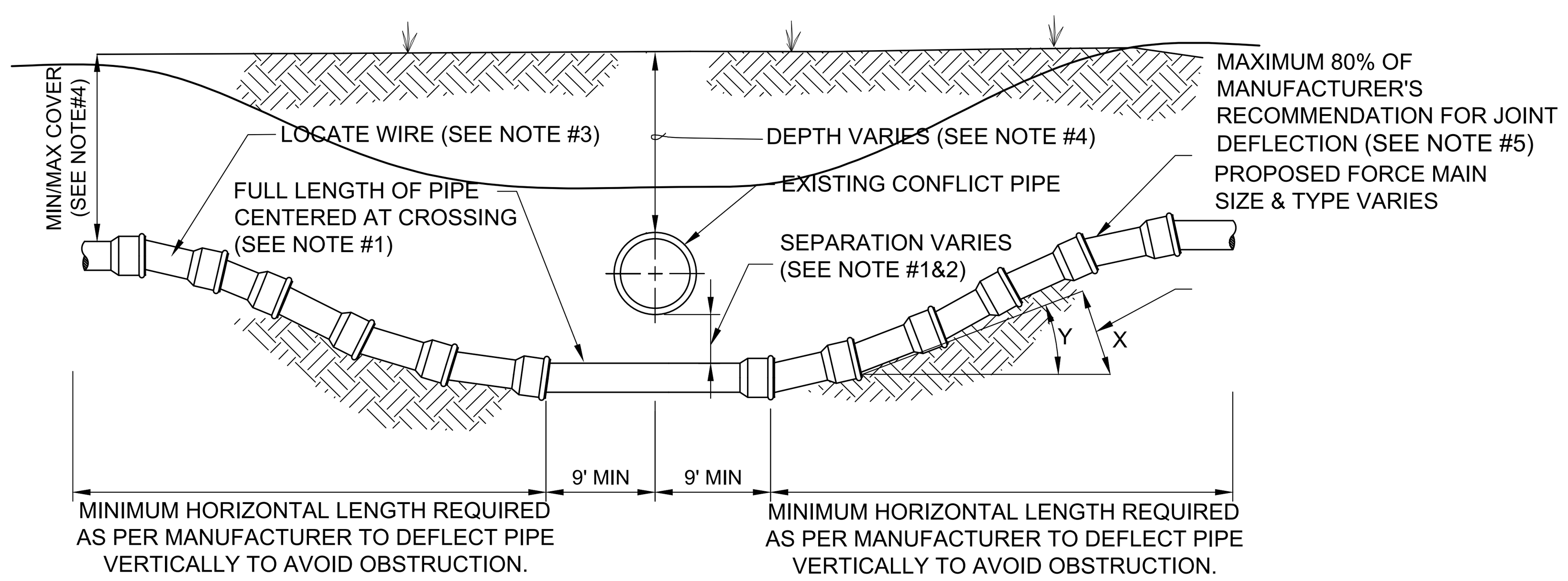
TYPICAL TRENCH

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 2021 IN CITY RIGHT OF WAY PLATE W-42



CASE "B" CROSSING

NOTES:

1. IF EXISTING CONFLICT PIPE IS A WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSING.
2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (W-10 & W-11).
3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.
4. THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE A MINIMUM OF 30" IN UNPAVED AREAS AND 36" IN PAVED AREAS WITH A MAXIMUM COVER OF 60" UNLESS APPROVED OTHERWISE BY JEA. COVER FOR PIPING 24" SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS APPROVED OTHERWISE BY JEA. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.
5. JEA ONLY ALLOWS 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20LF PIPE LENGTH.

MAXIMUM ALLOWED OFFSET FOR PIPE BY JOINT DEFLECTION

PVC PIPE

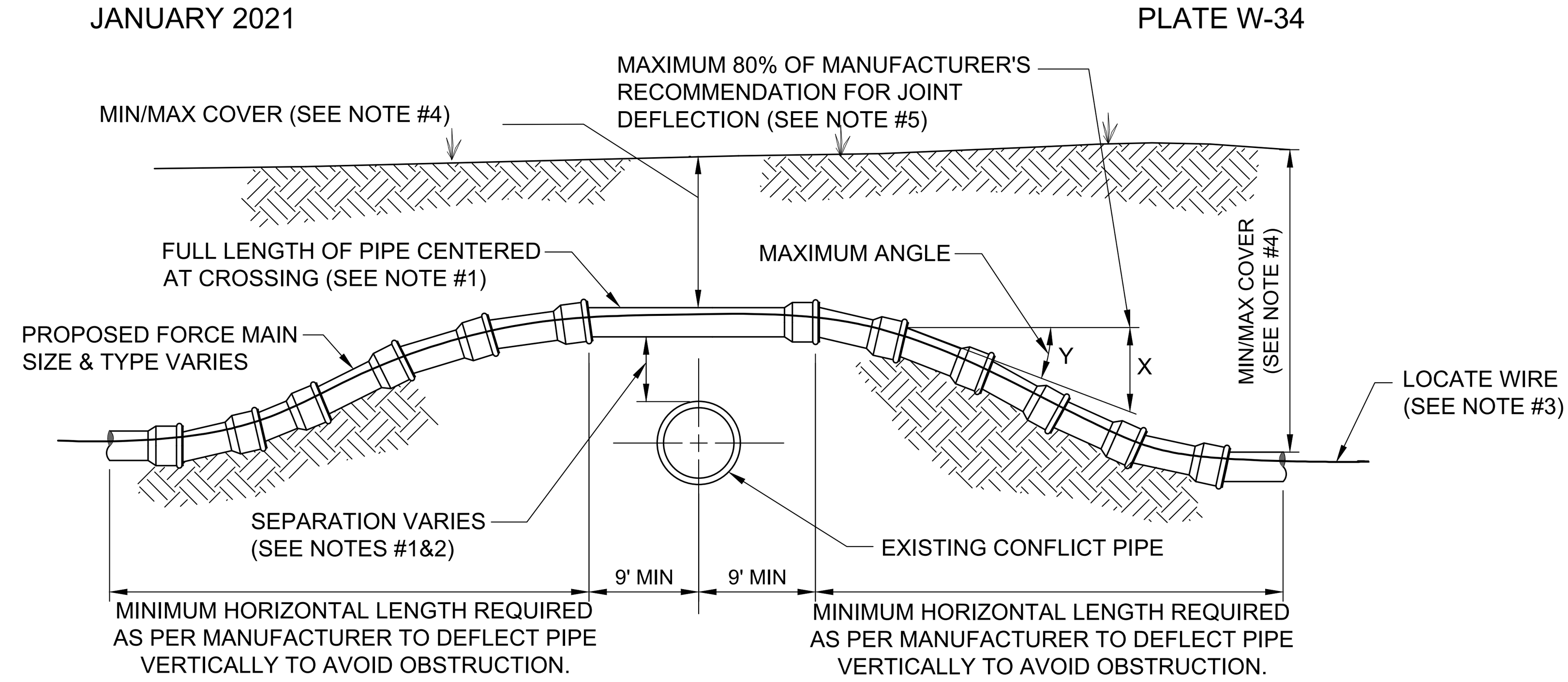
PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
2	30	7°	158 FT
4	10	2.4°	480 FT
6	10	2.4°	480 FT
8	10	2.4°	480 FT
10	10	2.4°	480 FT
12	8.5	2°	564 FT
14 - 24	5	1.2°	960 FT
30 - 48	3.25	0.8°	1477 FT

DUCTILE IRON PIPE (Mechanical Joint)

PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
-	-	-	-
4	27	6.5°	177 FT
6	24	5.7°	200 FT
8 - 12	17.5	4.2°	273 FT
14 - 16	12	2.9°	400 FT
18 - 20	10	2.4°	477 FT
24 - 30	8	1.9°	600 FT
36	7	1.7°	687 FT
42 - 48	6.7	1.6°	716 FT

ADJUSTMENT UNDER EXISTING UTILITIES PIPE JOINT DEFLECTION

JANUARY 2021 PLATE W-40



CASE "A" CROSSING

NOTES:

1. IF EXISTING CONFLICT PIPE IS A WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSING.
2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-10 & W-11).
3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.
4. THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE A MINIMUM OF 30" IN UNPAVED AREAS AND 36" IN PAVED AREAS WITH A MAXIMUM COVER OF 60" UNLESS APPROVED OTHERWISE BY JEA. COVER FOR PIPING 24" SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS APPROVED OTHERWISE BY JEA. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.
5. JEA ONLY ALLOWS 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20LF PIPE LENGTH.

MAXIMUM ALLOWED OFFSET FOR PIPE BY JOINT DEFLECTION

PVC PIPE

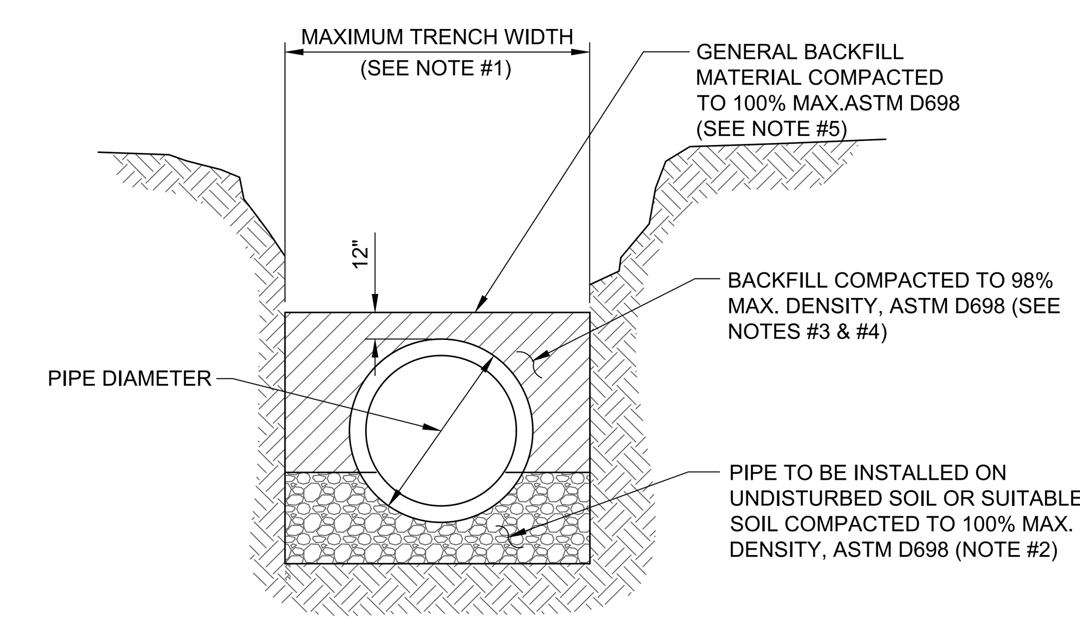
PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
2	30	7°	158 FT
4	10	2.4°	480 FT
6	10	2.4°	480 FT
8	10	2.4°	480 FT
10	10	2.4°	480 FT
12	8.5	2°	564 FT
14 - 24	5	1.2°	960 FT
30 - 48	3.25	0.8°	1477 FT

DUCTILE IRON PIPE (Mechanical Joint)

PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
-	-	-	-
4	27	6.5°	177 FT
6	24	5.7°	200 FT
8 - 12	17.5	4.2°	273 FT
14 - 16	12	2.9°	400 FT
18 - 20	10	2.4°	477 FT
24 - 30	8	1.9°	600 FT
36	7	1.7°	687 FT
42 - 48	6.7	1.6°	716 FT

ADJUSTMENT OVER EXISTING UTILITIES PIPE JOINT DEFLECTION

JANUARY 2021 PLATE W-41



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 100% OF IT'S MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D698.
5. SEE " EXCAVATION AND EARTHWORK", SECTION 408 FOR ADDITIONAL REQUIREMENTS AND EXCEPTIONS INCLUDING REMOVAL AND REPLACEMENT OF UNSUITABLE SOILS, DEWATERING, COMPACTION REQUIREMENTS AND DENSITY TESTING OF COMPACTED SOILS.

OPEN CUT TRENCH FOR PRESSURE PIPE

JANUARY 2021 IN STATE ROAD RIGHT -OF-WAY PLATE W-42A

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REVISIONS

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

DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
STANDARD WATER DETAILS 5

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 83
DRAWING NO. STD-1.05

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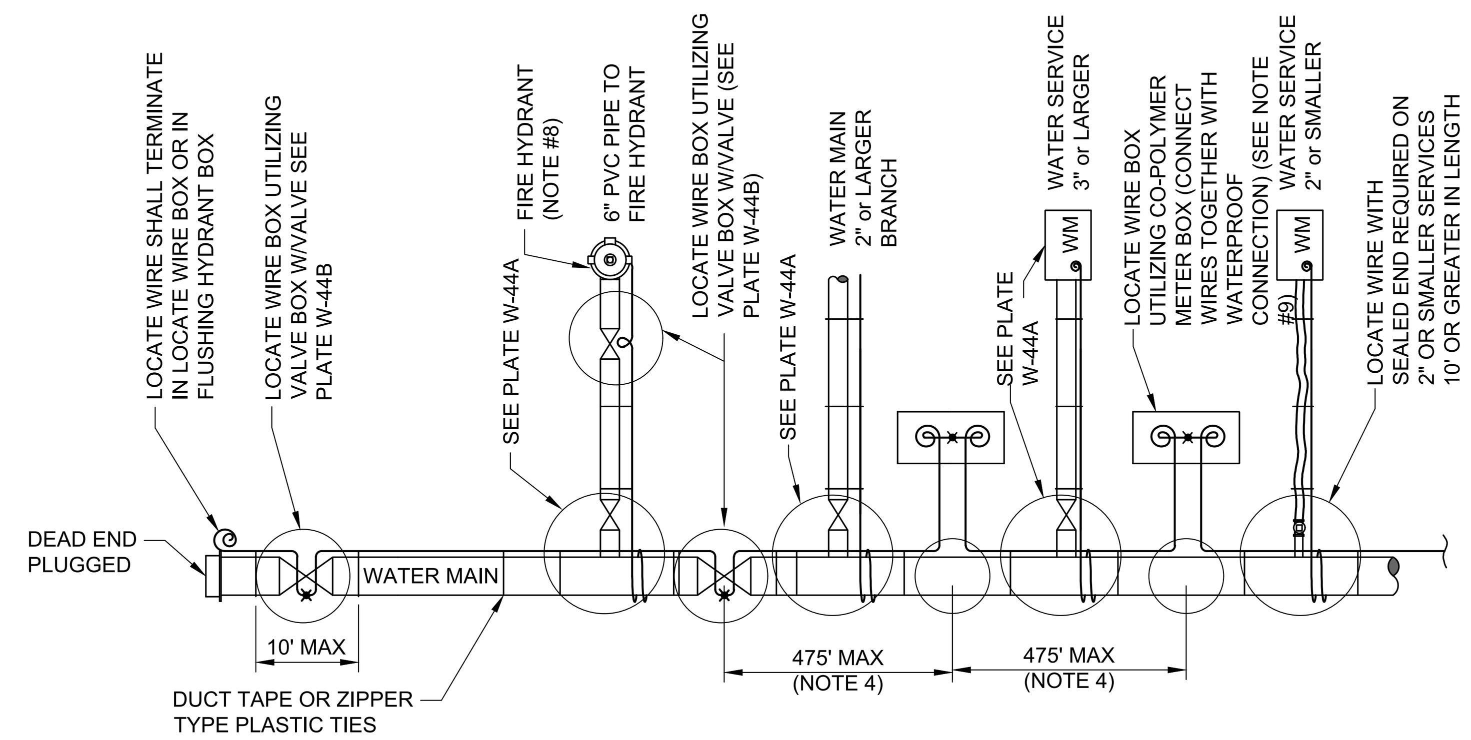
A LOCATE WIRE SHALL BE PLACED ON SERVICES 10FT OR GREATER.



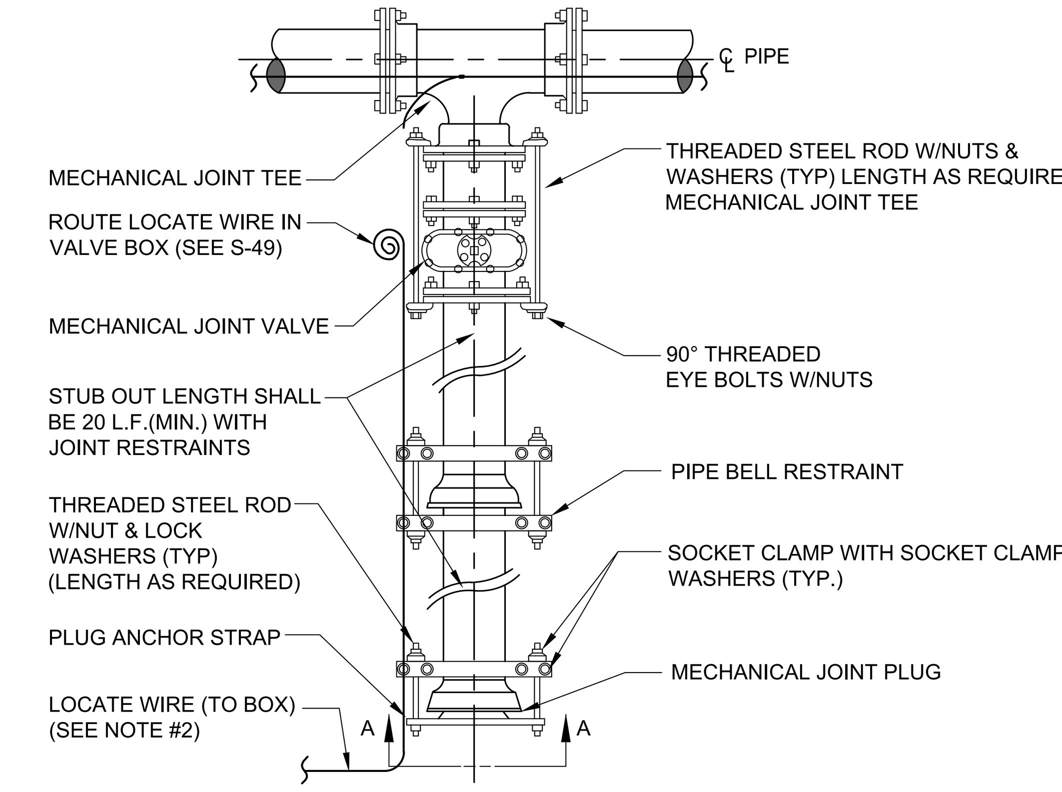
LOCATE WIRE SYSTEM

NOTES:

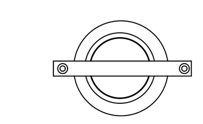
1. LOCATING WIRE TO BE INSTALLED IN EITHER THE ONE OR ELEVEN O'CLOCK POSITION ON ALL DUCTILE IRON 0R PVC (PRESSURE MAINS). LOCATE WIRE SHALL ALSO BE INSTALLED ON ALL (HDPE) POLY MAIN PIPING (1:00 OR 11:00 POSITION, IF POSSIBLE).
2. SECURE LOCATING WIRE TO PVC & D.I.P. WATER MAIN BY USE OF DUCT TAPE OR ZIPPER TYPE PLASTIC TIE STRAPS SPACED AT A MAXIMUM DISTANCE OF TEN (10') AND AT EACH SIDE OF BELL JOINT OR FITTING.
3. THE ENTIRE LOCATING SYSTEM SHALL BE SUBJECTED TO TESTING TO DETERMINE ITS RELIABILITY. WHERE INSTALLED UNDER PAVEMENT AREAS, TESTING SHALL BE DONE PRIOR TO THE PLACEMENT OF PAVEMENT, UNLESS APPROVED OTHERWISE BY JEA.
4. LOCATING WIRE SHALL TERMINATE WITHIN AN ACTIVE VALVE BOX (WITH A VALVE) OR A METER BOX (IF NO VALVE) AT 475' INTERVALS. SEE DETAIL PLATE W-44B. WIRE CONNECTIONS BELOW GROUND (OUTSIDE OF A BOX) SHALL BE AVOIDED.
5. REFER TO SECTION 350 FOR LOCATE WIRE SPECIFICATIONS.
6. " " INDICATES THAT THE WIRES ARE CONNECTED TOGETHER WITH A WATERPROOF CONNECTION. (SEE DETAIL W-44B)
7. " " INDICATES A WIRE PIG-TAIL (4' LONG)
8. FOR FIRE HYDRANT LOCATE WIRE REQUIREMENTS AND EXCLUSIONS, SEE PLATES W-12,13 AND 14.
9. AN "LW" CUT SHALL BE CARVED IN THE CONCRETE CURB AND PAINTED AT ALL LOCATE WIRE BOXES.
10. FOUR LANES OF TRAFFIC (HAVING TWO LANES OF TRAFFIC IN EACH DIRECTION) OR GREATER THE LOCATE WIRE AND VALVE BOX SHALL BE OFF-SET TO THE RIGHT-OF-WAY.

LOCATE WIRE CONSTRUCTION FOR WATER MAINS

JANUARY 2021 PLATE W-44



PLAN



SECTION "A-A"

NOTES:

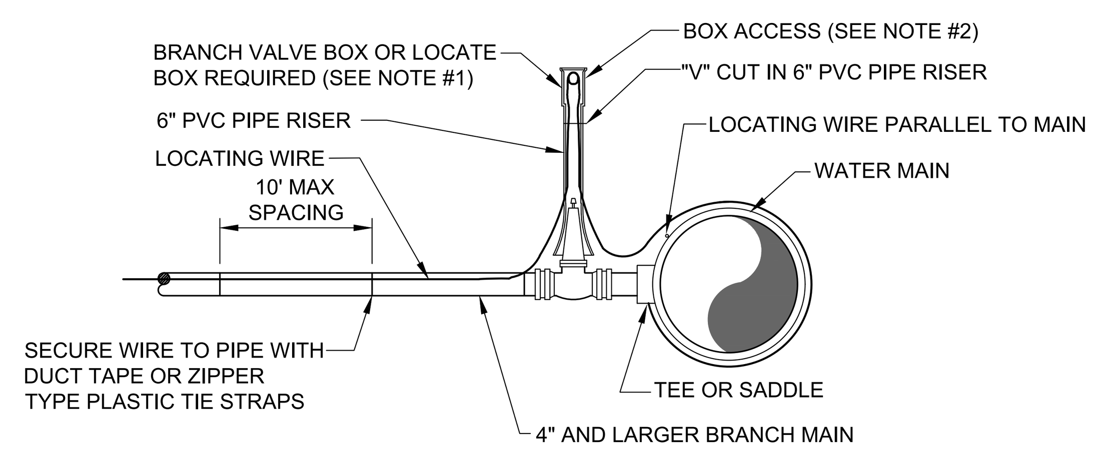
1. IN LIEU OF BELL/ROD RESTRAINTS, MECHANICAL JOINT RESTRAINTS MAY BE USED.
2. LOCATING WIRE REQUIRED, UTILIZING A LOCATE WIRE BOX INSTALLED AT PLUG LOCATION.
3. NUMBER OF TIE RODS REQUIRED IS AS FOLLOWS:

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)

4. THE LOCATION OF THE DEAD END PLUG SHALL NOT BE UNDER PAVEMENT, IF POSSIBLE. THE STUB OUT SHALL EXTEND BEYOND THE INTERSECTION AREAS OR ROAD CROSSING BY 10 FEET (MIN.) WHERE POSSIBLE.

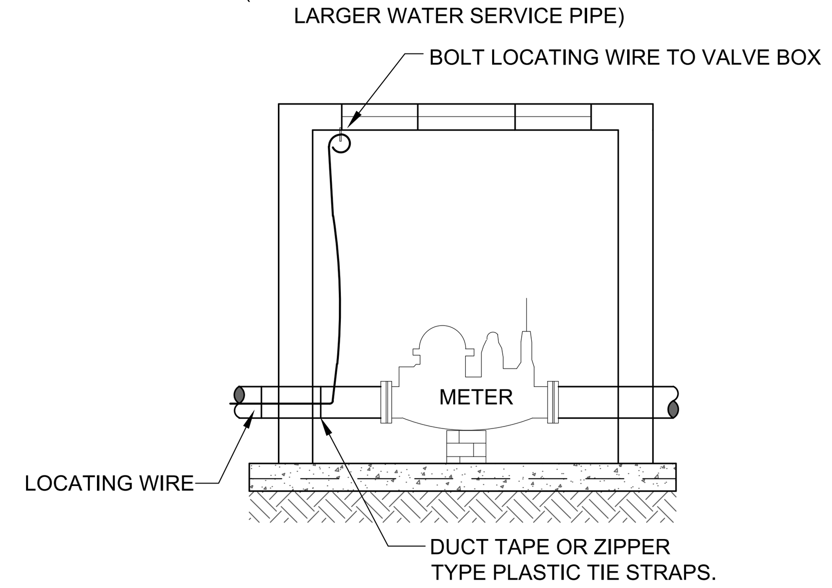
PLUGGED DEAD END USING MECHANICAL RESTRAINTS

JANUARY 2021 PLATE W-37



BRANCH FORCE MAIN

(2" AND LARGER WATER MAIN OR 3" AND LARGER WATER SERVICE PIPE)



CONNECTION AT LARGE METER BOX

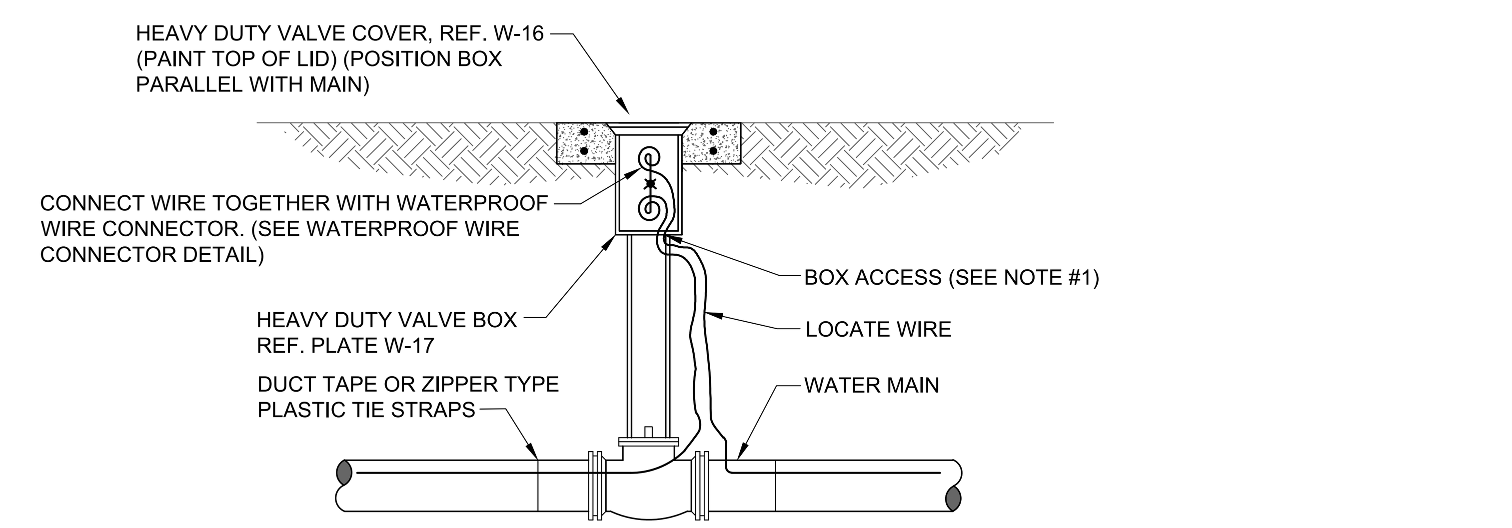
(3" OR LARGER SERVICE)

NOTES:

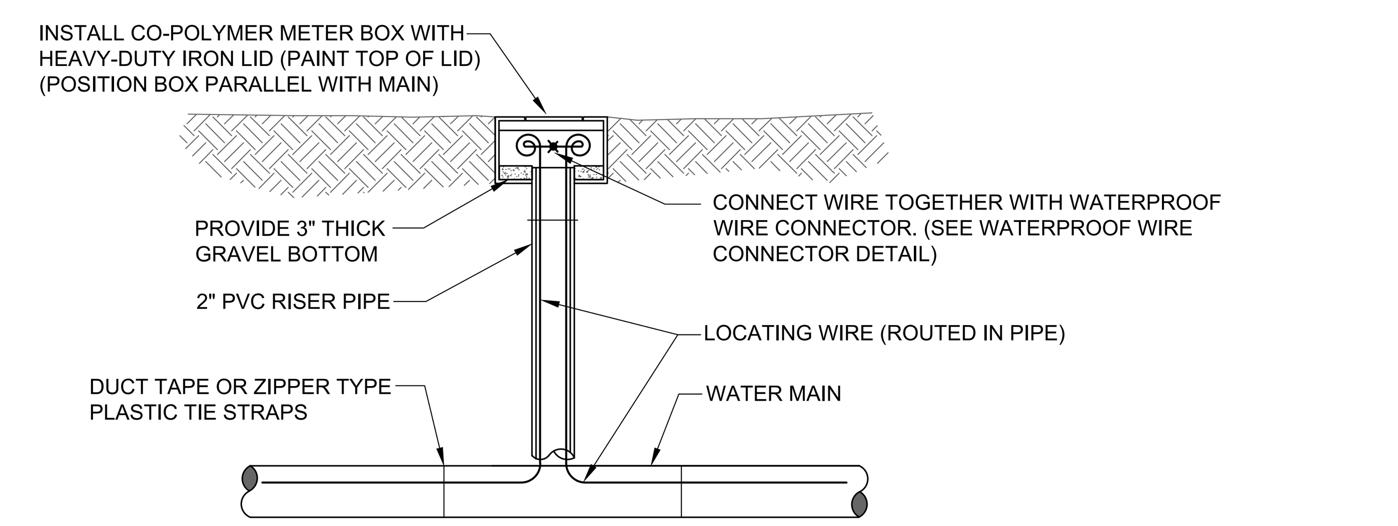
1. NOTE THAT THE BRANCH WIRE IS NOT CONNECTED TO THE MAIN WIRE.
2. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE SECTION (SEE W-18).
3. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE AND LOCATE POINTS.

LOCATE WIRE FOR BRANCH MAIN

JANUARY 2021 PLATE W-44A



LOCATE WIRE BOX UTILIZING VALVE BOX



LOCATE WIRE BOX UTILIZING METER BOX

LOCATE WIRE BOX

JANUARY 2021 PLATE W-44B

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COA # 2822

NO.	BY	DATE	REVISIONS
6.			
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1.			

DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community sm

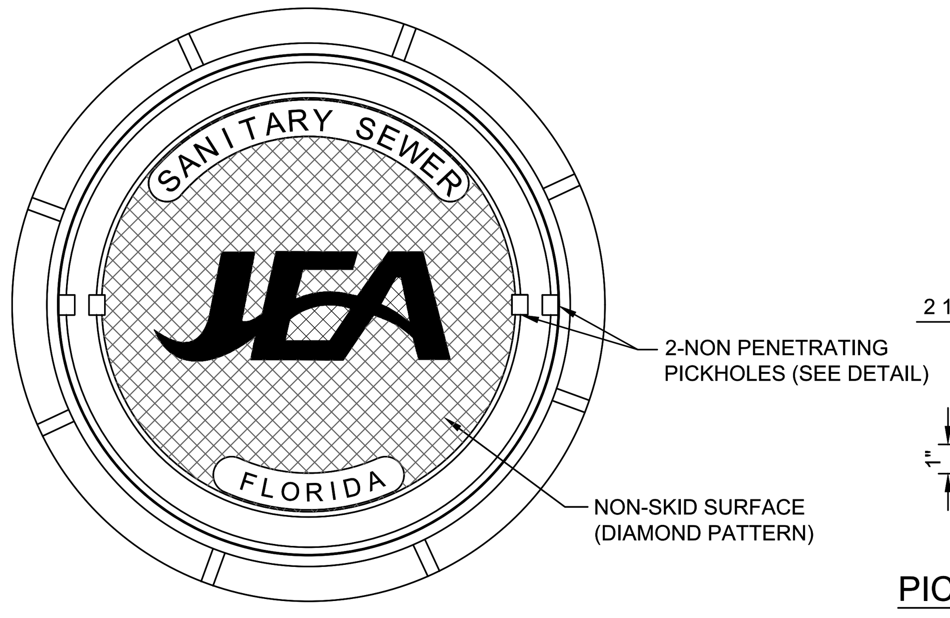
SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
STANDARD WATER DETAILS 6

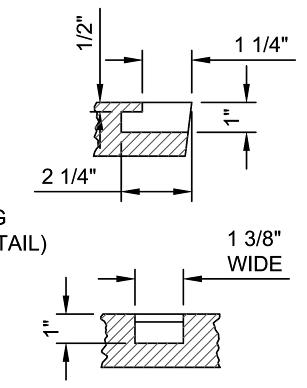
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

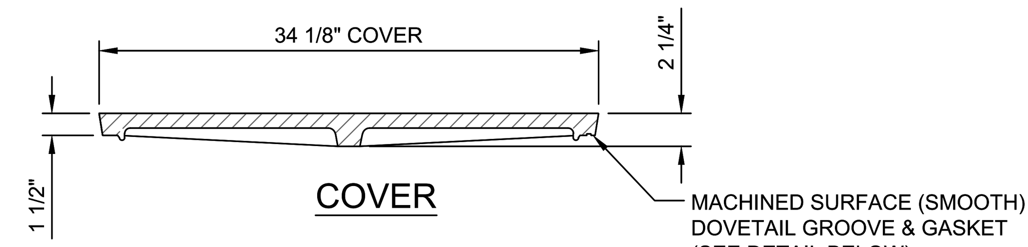
PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS 89
SHEET NO. 84
DRAWING NO. STD-1.06

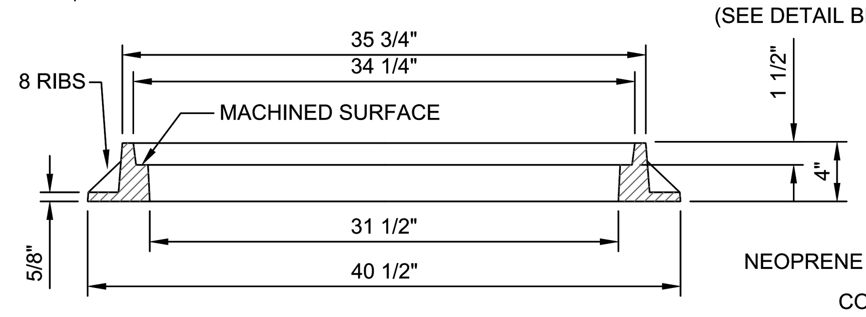




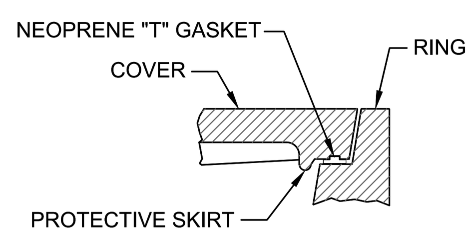
PICKHOLE DETAIL



COVER



RING



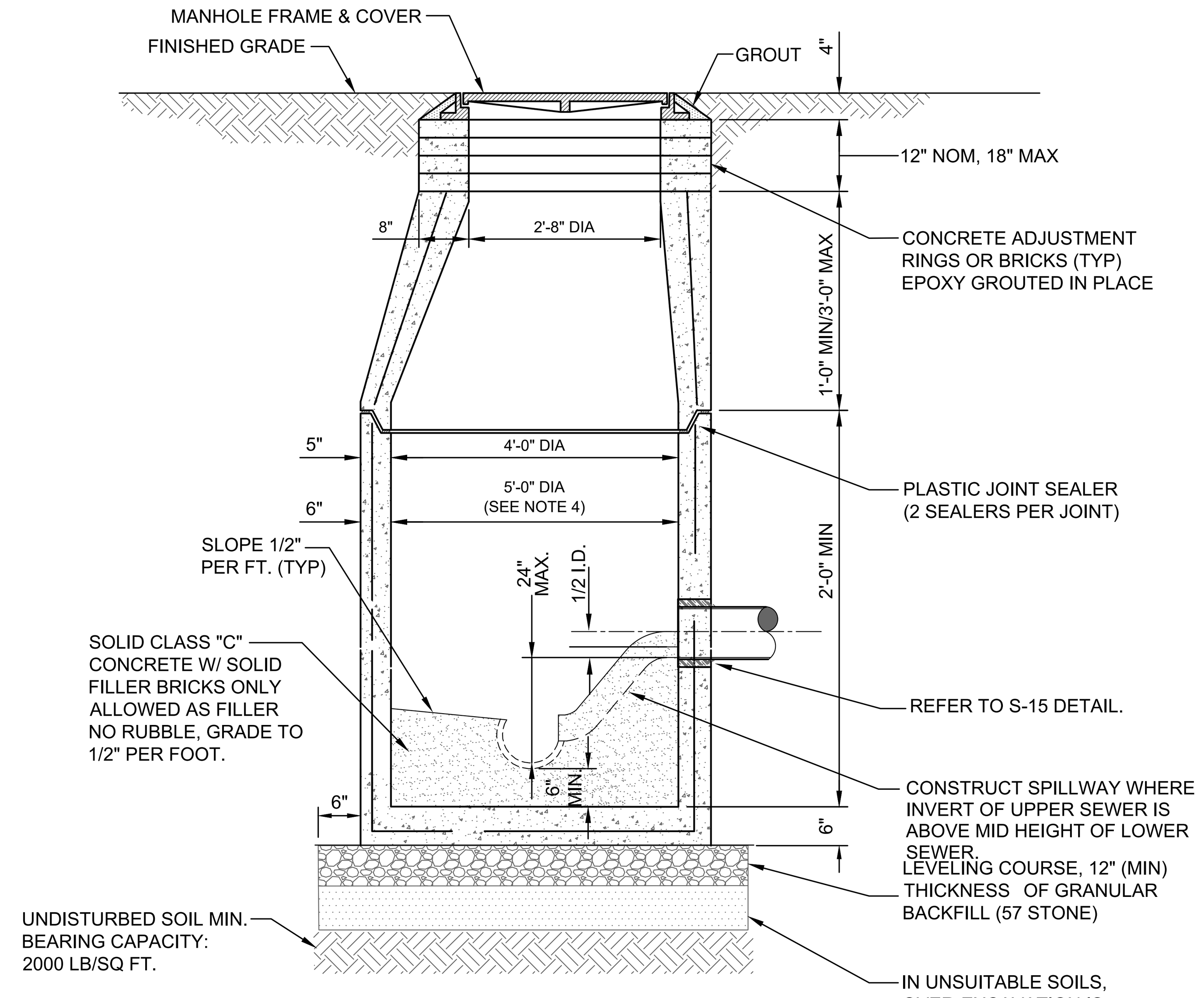
GROOVE & GASKET DETAIL

NOTES:

1. MATERIAL: ASTM A-48 CLASS 35B GRAY IRON.
2. RING WEIGHT 230 LBS APPROX.
3. COVER WEIGHT 230 LBS. APPROX.
4. ALL DIMENSIONS ARE SHOWN IN INCHES.
5. FOR MANHOLES WHICH WILL BE MAINTAINED BY JEA (INCLUDING UTILITY DEDICATION PROJECTS), THE COVER SHALL INCLUDE THE "JEA" LOGO AND A NEOPRENE GASKET.
6. FOR MANHOLES WHICH WILL BE MAINTAINED BY PARTIES OTHER THAN JEA (SUCH AS PRIVATE SEWER COLLECTION SYSTEMS, PRIVATE (FORCE MAIN) PUMP OUT BOX AND SYSTEMS NOT MAINTAINED BY JEA), THE COVER SHALL INCLUDE "SANITARY SEWER" GENERIC LETTERING (NO "JEA" LOGO OR NEOPRENE GASKET).

SANITARY SEWER MANHOLE FRAME AND COVER

JANUARY 2021 PLATE S-1



SECTION VIEW (S-2)

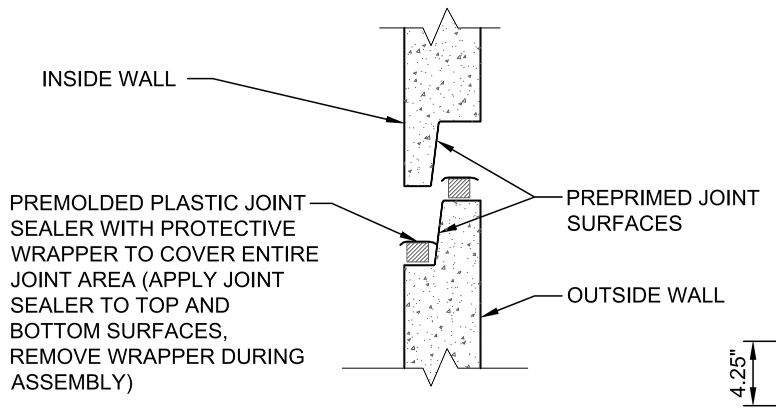
(FOR PLAN VIEW SEE S-3)

NOTES:

1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
2. THE INTERIOR AND EXTERIOR OF MANHOLE AND ADJUSTING RINGS SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL.
3. IF SPECIALTY LINER IS TO BE INSTALLED ON INSIDE SURFACE OF MANHOLE, THE BITUMINOUS WATERPROOFING MATERIAL SHALL BE OMITTED ON THE INSIDE.
4. JUNCTION MANHOLE (CLOSEST TO WETWELL) SHALL BE 5' DIA WITH SPECIALTY LINER.
5. ALL MANHOLE JOINTS BELOW THE TOP COVER SECTION SHALL INCLUDE A 6" WIDE (MIN) EXTERIOR JOINT TAPE (WITH PRIMER). TAPE ON THE CONE SECTION IS OPTIONAL. SEE PLATE S-17.
6. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).

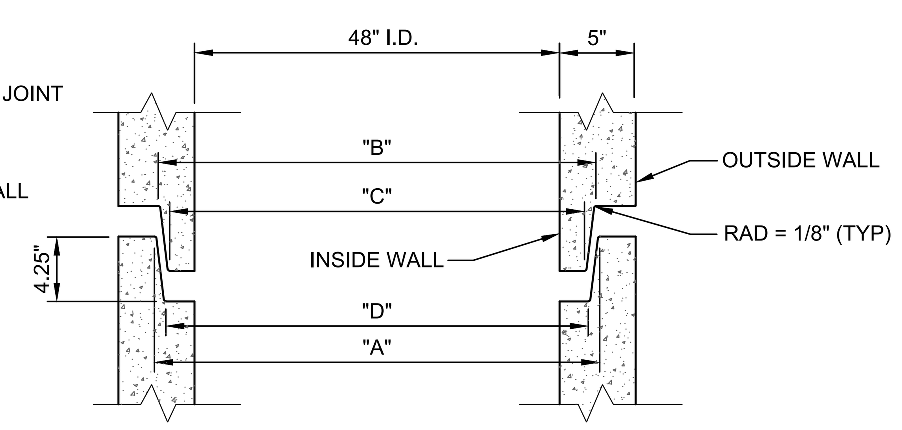
SANITARY SEWER CONCRETE TYPE "A" MANHOLE 8"-21" SEWERS

JANUARY 2021 PLATES S-2, S-3

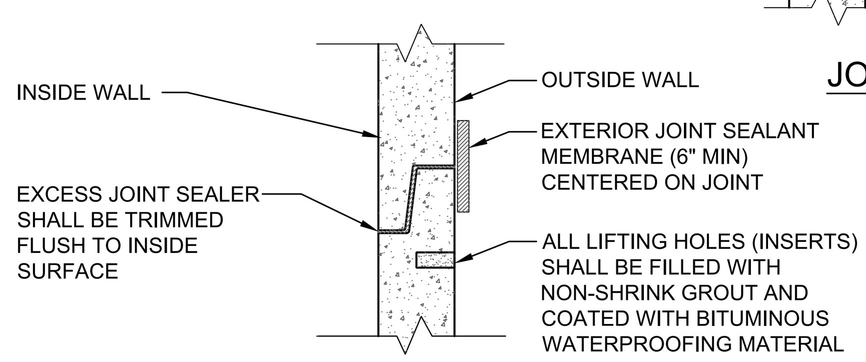


JOINT ASSEMBLY DETAIL

MANHOLE JOINT	"A"	"B"	"C"	"D
7° JOINT ANGLE	53.043	52.543	51.500	52.000



JOINT CONSTRUCTION DETAIL



COMPLETED JOINT DETAIL

PRECAST CONCRETE SEWER MANHOLE JOINT DETAIL

JANUARY 2021 PLATE S-17

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COA # 2822

NO.	BY	DATE	REVISIONS
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5.			
4.			
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1.			

DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
STANDARD SANITARY DETAILS 1

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 85
DRAWING NO. STD-2.01

JEA PROJ NO.: 8004887
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

CONFLICTING UTILITY	PROPOSED UTILITY: POTABLE WATER HORIZ.	POTABLE WATER VERT.	POTABLE WATER JOINT SPACING*	WASTEWATER GRAVITY AND FORCE MAIN HORIZ.	WASTEWATER VERT.	WASTEWATER JOINT SPACING*	RECLAIMED WATER HORIZ.	RECLAIMED WATER VERT.	RECLAIMED WATER JOINT SPACING*	VACUUM SEWERS HORIZ.	VACUUM SEWERS VERT.	VACUUM SEWERS JOINT SPACING*
POTABLE WATER	3' NOTE 1	12"	3' NOTE 2	6' to 10'	12" NOTE 5	6' NOTE 2	3'	12"	6' NOTE 2	3' to 10'	12"	3' NOTE 2
RECLAIMED WATER	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2
WASTEWATER (GRAVITY AND FORCE MAIN)	6' to 10'	12"	6' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
VACUUM SEWERS	3' to 10'	12"	3' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
RIGHT OF WAYS	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A
PERMANENT STRUCTURES (BUILDINGS, SIGNS, POLES, ETC.)	SEE NOTE 7	N/A	N/A	SEE NOTE 7	N/A	N/A	SEE NOTE 7	N/A	N/A	SEE NOTE 7	N/A	N/A
STORM SEWERS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
GAS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
TREES	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A
ALL OTHER UTILITIES	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2

NOTES:

1. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTH, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
2. THE MINIMUM JOINT SPACING REQUIRED FROM CROSSING FROM OTHER UTILITIES WHILE STILL MAINTAINING MINIMUM VERTICAL SEPARATION.
3. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
4. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURES.
5. WATER MAIN SHOULD CROSS ABOVE OTHER PIPES WHENEVER POSSIBLE. WHEN WATER MAIN MUST BE BELOW OTHER UTILITY PIPING, THE MINIMUM SEPARATION SHALL BE 12 INCHES.
6. REFER TO SECTION 429, III.4.3.
7. REFER TO SECTION 429, III.4.2 FOR MINIMUM SEPARATION REQUIREMENTS FROM PIPE TO STRUCTURES.

SEPARATION REQUIREMENTS FOR WATER, WASTEWATER AND RECLAIMED WATER MAINS

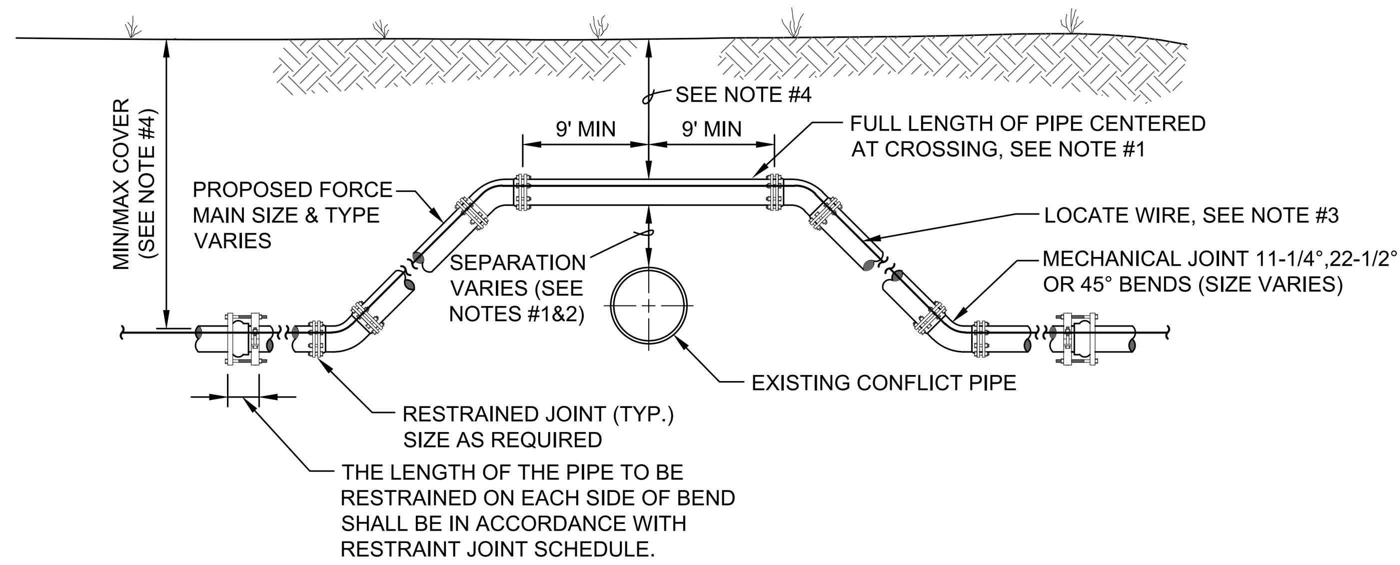
JANUARY 2021 PLATE S-26

WATER MAIN AND NON-WATER MAIN SEPARATION REQUIREMENTS - NOTES

1. IT IS REQUIRED THAT "WATER MAINS" BE INSTALLED, CLEANED, DISINFECTED AND HAVE A SATISFACTORY BACTERIOLOGICAL SURVEY PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS, CHAPTER 62-555, F.A.C. AND LATEST JEA WATER AND SEWER STANDARDS. FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER; FIRE HYDRANT LEADS; AND SERVICE LINES THAT HAVE AN INSIDE DIAMETER OF THREE (3) INCHES OR GREATER. IN ADDITION, THE PHRASE "RECLAIMED WATER" REFERS TO THE WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
2. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER.
3. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS MAY BE REDUCED TO THREE (3) FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE SEWER (SPECIAL CASE).
4. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLE TWELVE (12) INCHES, ABOVE OR AT LEAST TWELVE (12) INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
5. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS A LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
6. AT THE UTILITY CROSSINGS DESCRIBED IN NOTES 4 AND 5 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE (3) FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINE CONVEYING RECLAIMED WATER.
7. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SO THAT THE HYDRANTS ARE AT LEAST THREE (3) FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER; AT LEAST THREE (3) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER OR WASTEWATER FORCE MAIN.
8. WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE, THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER TO OBTAIN APPROVAL OF ANY ALTERNATIVE CONSTRUCTION METHODS, PRIOR TO CONSTRUCTION.

NOTES ON UTILITY SEPARATION REQUIREMENTS - SEWER

JANUARY 2021 PLATE S-27



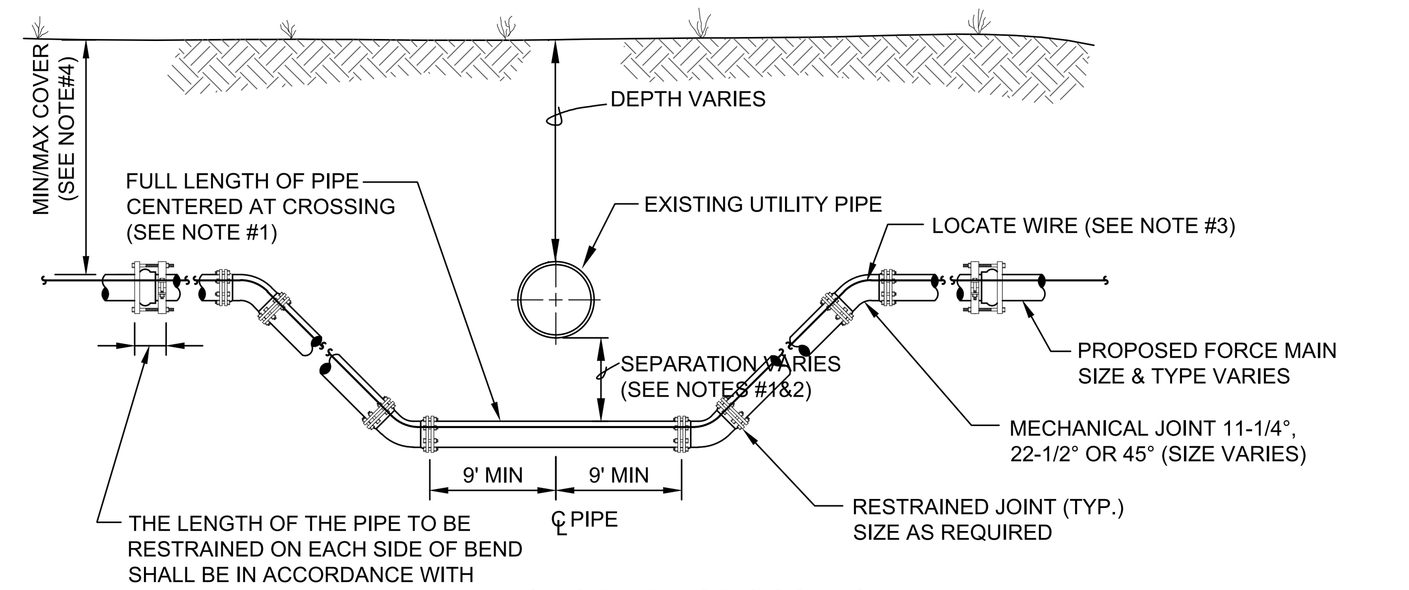
CASE "A" CROSSING

NOTES:

1. IF EXISTING CONFLICT PIPE IS A WATER OR RECLAIMED WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSINGS.
2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-26 & S-27).
3. LOCATING WIRE REQUIRED: SEE DETAIL S-49.
4. THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREAS, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS PRE-APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
5. THE SOILS BETWEEN THE MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.

ADJUSTMENT OVER EXISTING UTILITIES MECHANICAL RESTRAINTS

JANUARY 2021 PLATE S-39



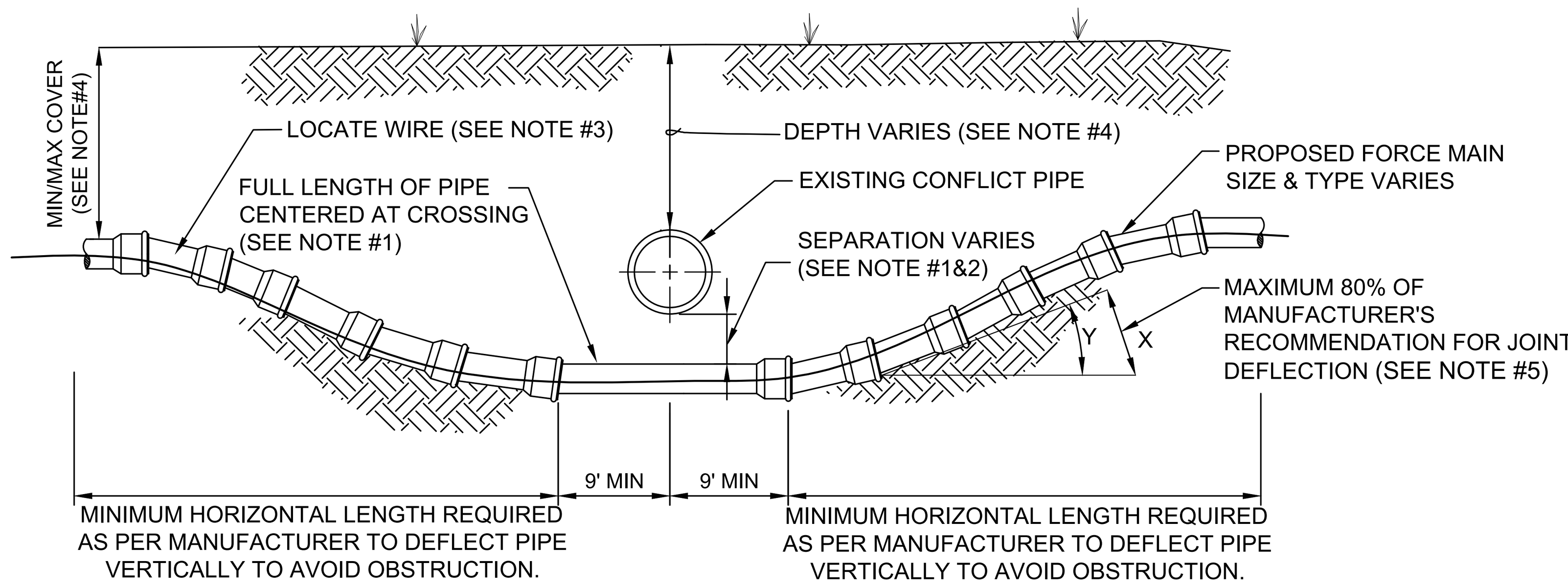
CASE "B" CROSSING

NOTES:

1. IF EXISTING CONFLICT PIPE IS A WATER OR RECLAIMED WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED.A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSINGS.
2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-26 & S-27).
3. LOCATING WIRE REQUIRED: SEE DETAIL S-49.
4. THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREAS, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS PRE-APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
5. THE SOILS BETWEEN THE MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.

ADJUSTMENT UNDER EXISTING UTILITIES MECHANICAL RESTRAINTS

JANUARY 2021 PLATE S-41



CASE "B" CROSSING

MAXIMUM ALLOWED OFFSET FOR PIPE BY JOINT DEFLECTION

PVC PIPE

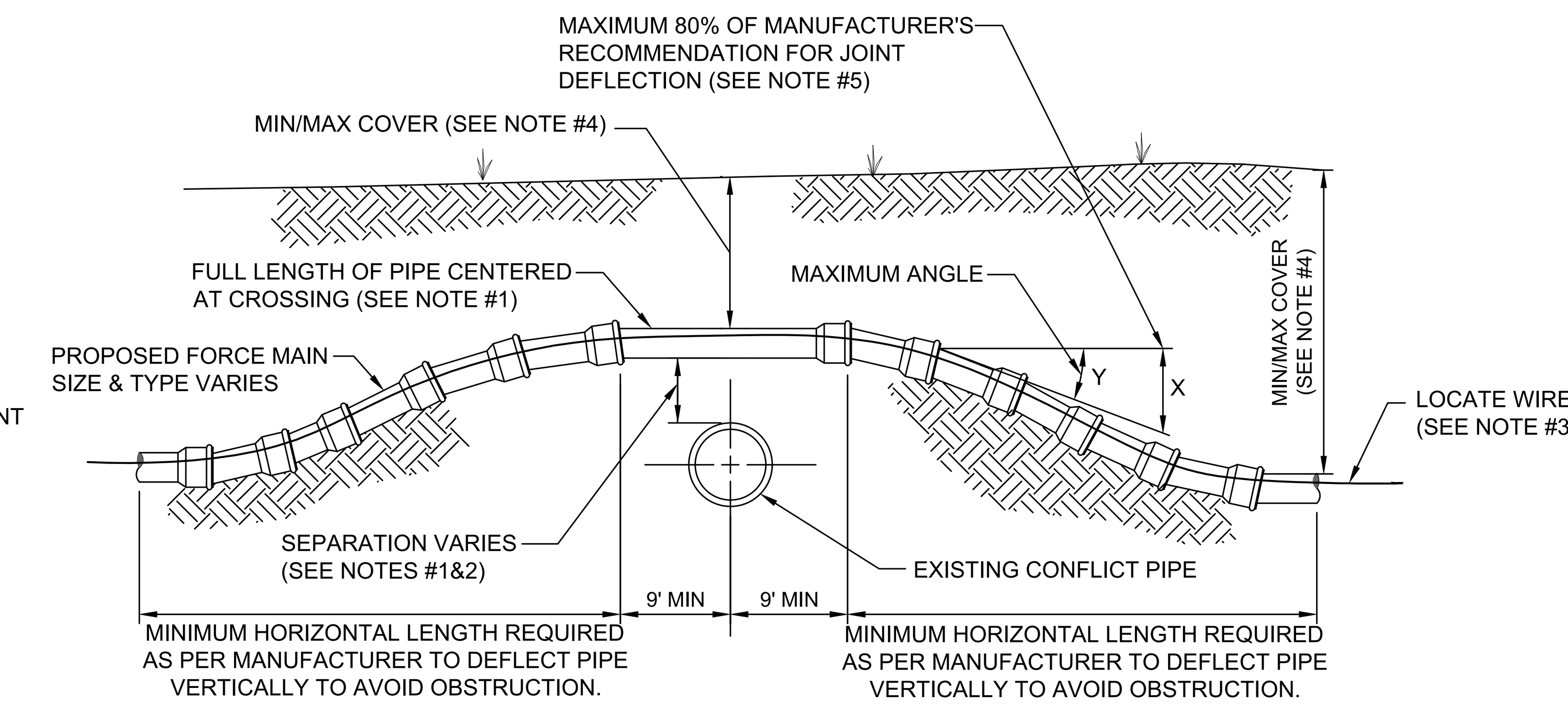
PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
2	30	7°	158 FT
4	10	2.4°	480 FT
6	10	2.4°	480 FT
8	10	2.4°	480 FT
10	10	2.4°	480 FT
12	8.5	2°	564 FT
14 - 24	5	1.2°	960 FT
30 - 48	3.25	0.8°	1477 FT

NOTES:

1. IF EXISTING CONFLICT PIPE IS A WATER MAIN OR RECLAIM WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSING.
2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-26 & S-27).
3. LOCATING WIRE REQUIRED: SEE DETAIL S-49.
4. THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE A MINIMUM OF 30" IN UNPAVED AREAS AND 36" IN PAVED AREAS WITH A MAXIMUM COVER OF 60" UNLESS APPROVED OTHERWISE BY JEA. COVER FOR PIPING 24" SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS APPROVED OTHERWISE BY JEA. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.
5. JEA ONLY ALLOWS 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20LF PIPE LENGTH.

ADJUSTMENT UNDER EXISTING UTILITIES PIPE JOINT DEFLECTION

JANUARY 2021 PLATE S - 47



CASE "A" CROSSING

MAXIMUM ALLOWED OFFSET FOR PIPE BY JOINT DEFLECTION

PVC PIPE

PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
2	30	7°	158 FT
4	10	2.4°	480 FT
6	10	2.4°	480 FT
8	10	2.4°	480 FT
10	10	2.4°	480 FT
12	8.5	2°	564 FT
14 - 24	5	1.2°	960 FT
30 - 48	3.25	0.8°	1477 FT

NOTES:

1. IF EXISTING CONFLICT PIPE IS A WATER MAIN OR RECLAIM WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSING.
2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-26 & S-27).
3. LOCATING WIRE REQUIRED: SEE DETAIL S-49.
4. THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE A MINIMUM OF 30" IN UNPAVED AREAS AND 36" IN PAVED AREAS WITH A MAXIMUM COVER OF 60" UNLESS APPROVED OTHERWISE BY JEA. COVER FOR PIPING 24" SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS APPROVED OTHERWISE BY JEA. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.
5. JEA ONLY ALLOWS 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20LF PIPE LENGTH.

ADJUSTMENT OVER EXISTING UTILITIES PIPE JOINT DEFLECTION

JANUARY 2021 PLATE S-48

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NO.	BY	DATE	REVISIONS
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1.			

DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CGJ
DATE:	MAY 2021

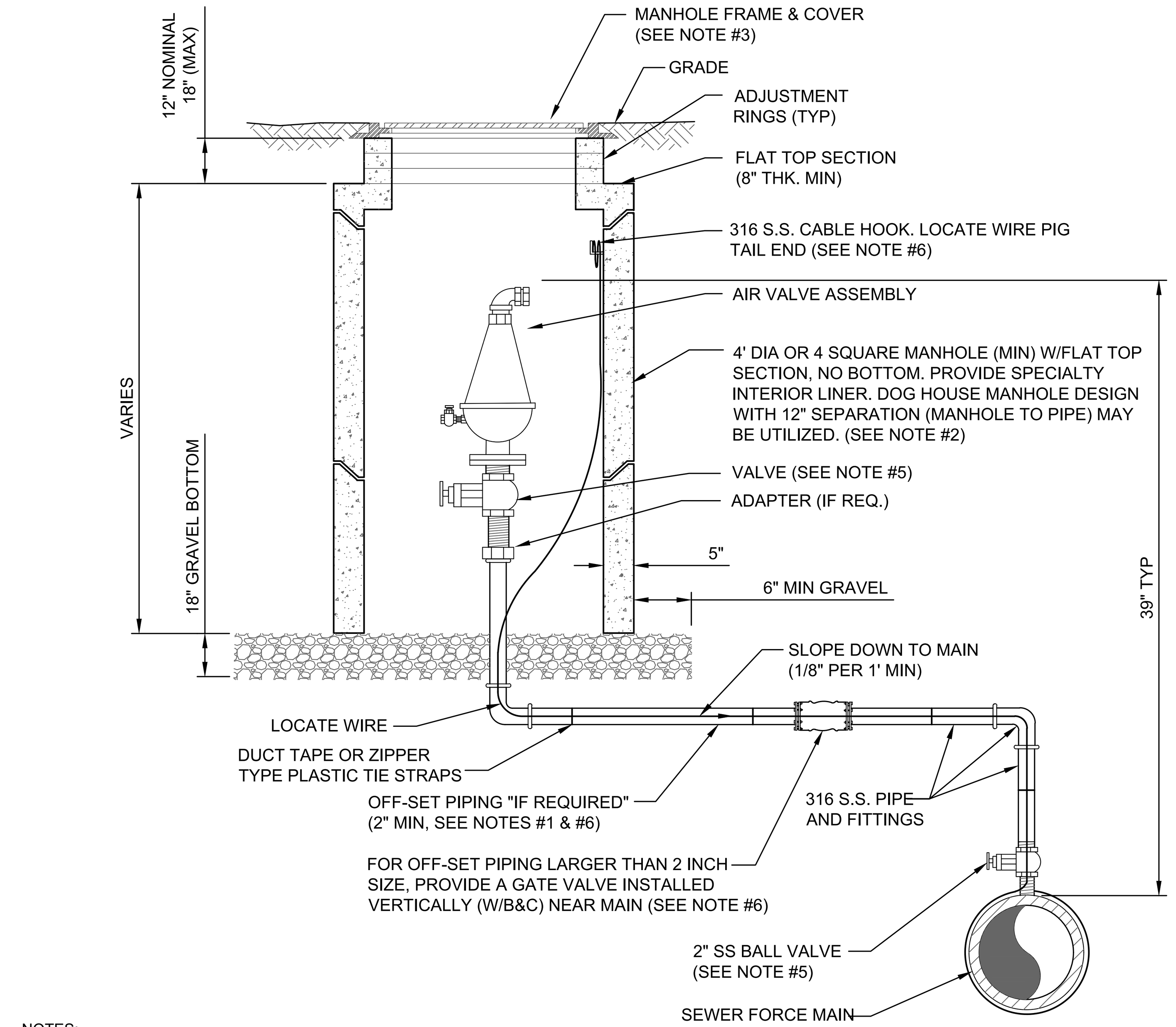
JEA Building Community sm

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
STANDARD SANITARY DETAILS 2

PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

JEA PROJ NO.: 8004887

NO. SHEETS	89
SHEET NO.	86
DRAWING NO.	STD-2.02
PROJ. NO.	D3254953
DATE:	MAY 2021
SCALE:	AS SHOWN

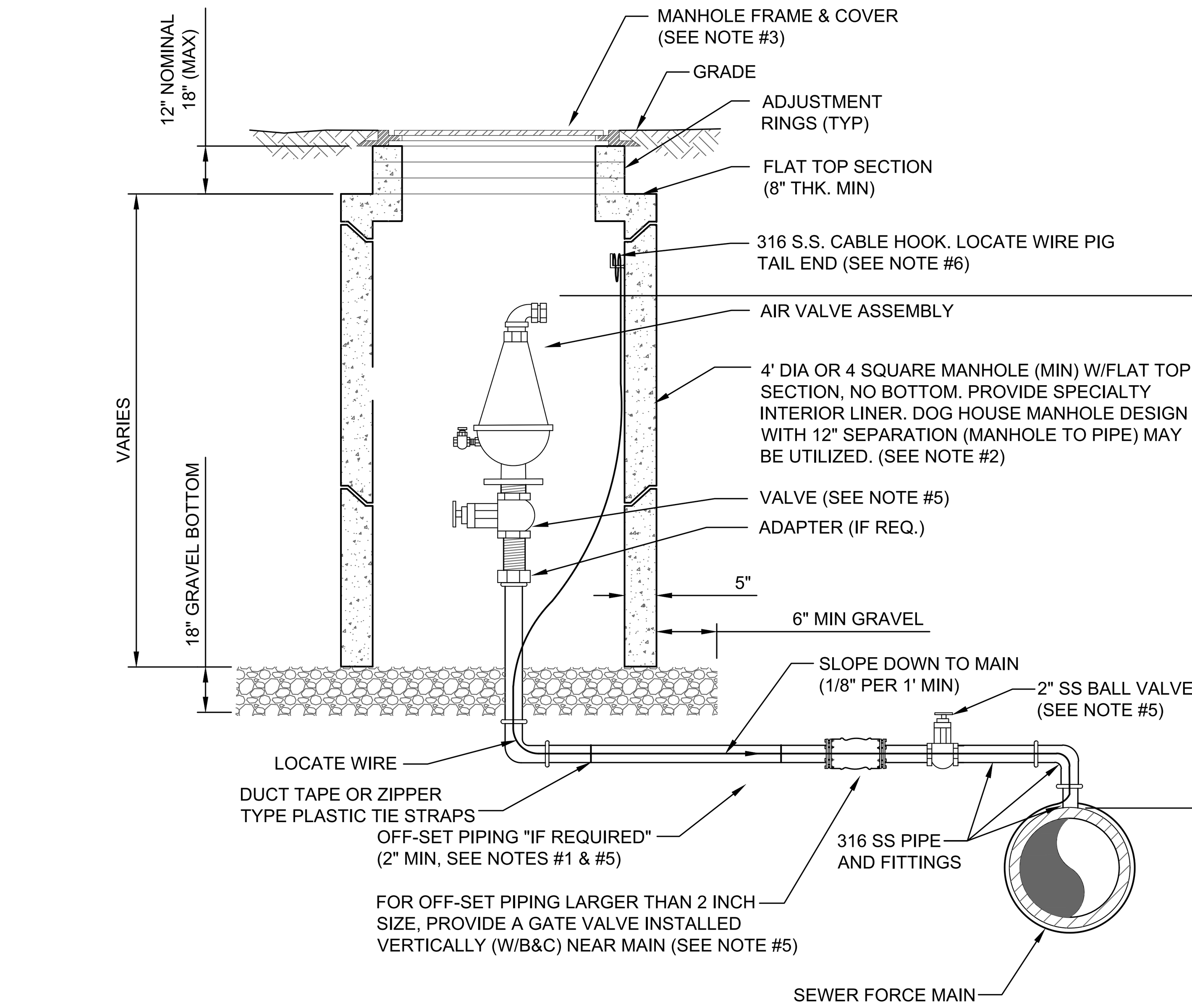


NOTES:

1. THE AIR ASSEMBLY MANHOLE SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA (I.E. LOCATED IN NON-TRAFFIC AREAS). IF OFF-SET PIPING IS REQUIRED, THE PIPING SHALL BE 2 INCH MINIMUM, (SAME SIZE AS AIR VALVE INLET). FOR PIPE SIZES 3 INCH AND SMALLER: PIPING SHALL BE 316 STAINLESS STEEL SCH.40, STD GRADE, THREADED. FOR PIPE SIZES 4 INCH AND LARGER: PIPING SHALL BE 316 STAINLESS STEEL SCH. 10 (MIN), WELDED OR PVC DR-18 PIPE AND FITTINGS-RESTRAINED.
2. THE CONCRETE MANHOLE SHALL INCLUDE A POLYURETHANE SPECIALTY LINER (PER SPEC SECTION 446) TO BE INSTALLED ON THE INTERIOR SURFACES INCLUDING THE RISER SECTION TOP AND THE ADJUSTMENT RINGS. A BITUMINOUS WATERPROOFING MATERIAL SHALL BE PROVIDED ON THE OUTSIDE SURFACES OF THE MANHOLE.
3. FRAME AND COVER SHALL BE JEA STANDARD. THE COVER SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT (REMOVE GASKET IF NECESSARY FROM THE UNDER SIDE OF STANDARD JEA COVER). THE COVER (WHEN FLIPPED OPEN) MUST CLEAR THE AIR VALVE ASSEMBLY AT ALL TIMES OR A SQUARE TOP WITH ALUMINUM DOOR SHALL BE PROVIDED (NON-TRAFFIC LOCATIONS ONLY).
4. FOR PIPE SIZES 3 INCH AND SMALLER, PROVIDE A STAINLESS STEEL BALL VALVE (2" MIN). FOR PIPE SIZES 4 INCH AND LARGER, PROVIDE A FLANGE GATE VALVE (WHEEL OPERATOR) OR PLUG VALVE. (LEVER ARM OPERATOR) SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
5. FOR A 2" AIR VALVE, PROVIDE 2" STAINLESS STEEL BALL VALVE AT THE MAIN. FOR AIR VALVES LARGER THAN 2" SIZE, PROVIDE A TAPPING SLEEVE OR DUCTILE IRON TEE FITTING. ALSO, FOR OFF-SET PIPING LARGER THAN 2 INCH SIZE, PROVIDE A GATE VALVE (INSTALLED VERTICALLY NEAR MAIN). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE.

AIR VALVE ASSEMBLY INSIDE MANHOLE

JANUARY 2021 PLATE S-29

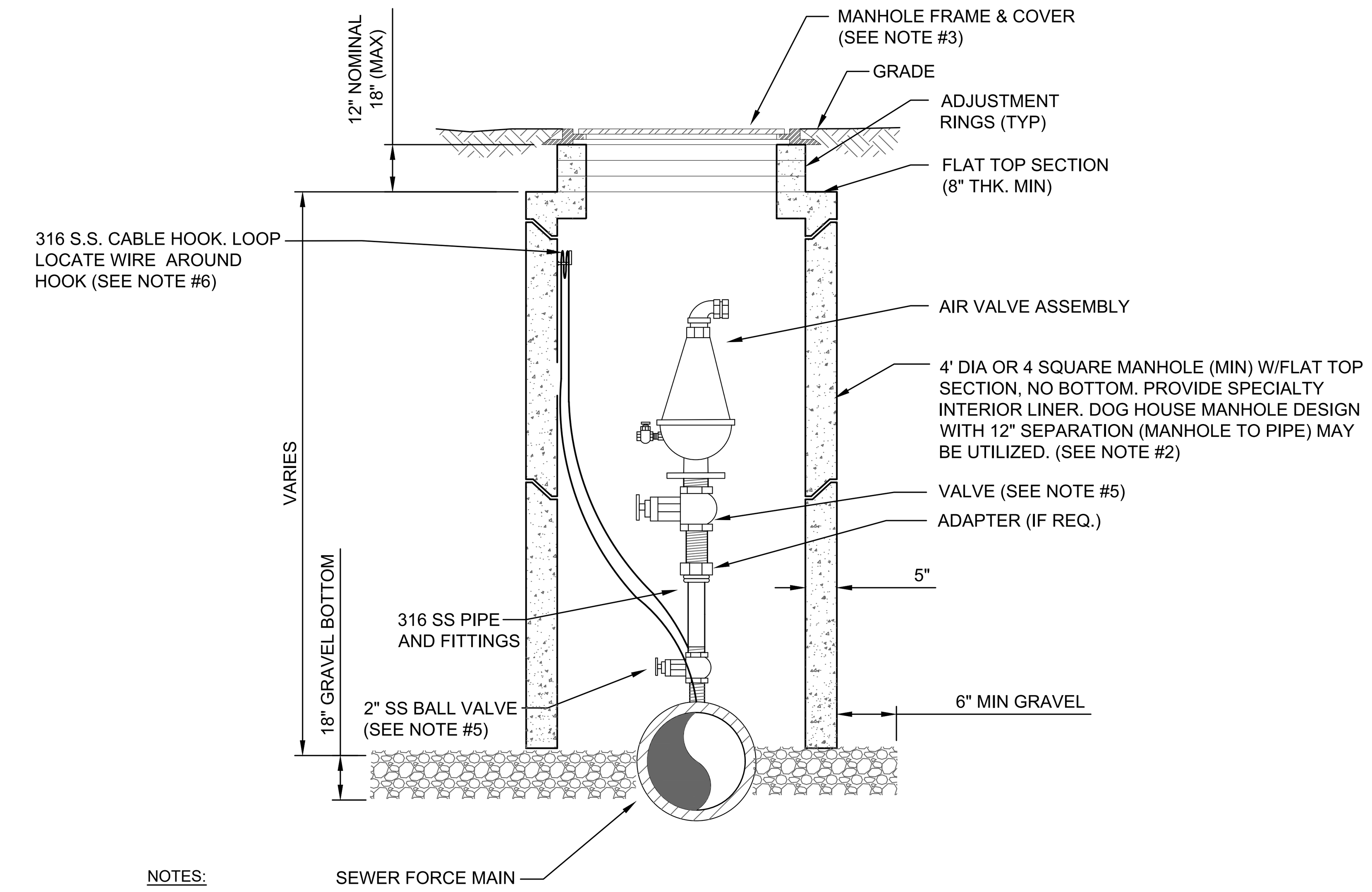


NOTES:

1. THE AIR ASSEMBLY MANHOLE SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA (I.E. LOCATED IN NON-TRAFFIC AREAS). IF OFF-SET PIPING IS REQUIRED, THE PIPING SHALL BE 2 INCH MINIMUM, (SAME SIZE AS AIR VALVE INLET). FOR PIPE SIZES 3 INCH AND SMALLER: PIPING SHALL BE 316 STAINLESS STEEL SCH.40, STD GRADE, THREADED. FOR PIPE SIZES 4 INCH AND LARGER: PIPING SHALL BE 316 STAINLESS STEEL SCH. 10 (MIN), WELDED OR PVC DR-18 PIPE AND FITTINGS-RESTRAINED.
2. THE CONCRETE MANHOLE SHALL INCLUDE A POLYURETHANE SPECIALTY LINER (PER SPEC SECTION 446) TO BE INSTALLED ON THE INTERIOR SURFACES INCLUDING THE RISER SECTION TOP AND THE ADJUSTMENT RINGS. A BITUMINOUS WATERPROOFING MATERIAL SHALL BE PROVIDED ON THE OUTSIDE SURFACES OF THE MANHOLE.
3. FRAME AND COVER SHALL BE JEA STANDARD. THE COVER SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT (REMOVE GASKET IF NECESSARY FROM THE UNDER SIDE OF STANDARD JEA COVER). THE COVER (WHEN FLIPPED OPEN) MUST CLEAR THE AIR VALVE ASSEMBLY AT ALL TIMES OR A SQUARE TOP WITH ALUMINUM DOOR SHALL BE PROVIDED (NON-TRAFFIC LOCATIONS ONLY).
4. FOR PIPE SIZES 3 INCH AND SMALLER, PROVIDE A STAINLESS STEEL BALL VALVE (2" MIN). FOR PIPE SIZES 4 INCH AND LARGER, PROVIDE A FLANGE GATE VALVE (WHEEL OPERATOR) OR PLUG VALVE. (LEVER ARM OPERATOR) SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
5. FOR A 2" AIR VALVE, PROVIDE 2" STAINLESS STEEL BALL VALVE AT THE MAIN. FOR AIR VALVES LARGER THAN 2" SIZE, PROVIDE A TAPPING SLEEVE OR DUCTILE IRON TEE FITTING. ALSO, FOR OFF-SET PIPING LARGER THAN 2 INCH SIZE, PROVIDE A GATE VALVE (INSTALLED VERTICALLY NEAR MAIN). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE.

OPTIONAL LOW PROFILE AIR VALVE ASSEMBLY INSIDE MANHOLE

JANUARY 2021 PLATE S-29A



NOTES:

1. THE AIR ASSEMBLY MANHOLE SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA (I.E. LOCATED IN NON-TRAFFIC AREAS).
2. THE CONCRETE MANHOLE SHALL INCLUDE A POLYURETHANE SPECIALTY LINER (PER SPEC SECTION 446) TO BE INSTALLED ON THE INTERIOR SURFACES INCLUDING THE RISER SECTION TOP AND THE ADJUSTMENT RINGS. A BITUMINOUS WATERPROOFING MATERIAL SHALL BE PROVIDED ON THE OUTSIDE SURFACES OF THE MANHOLE.
3. FRAME AND COVER SHALL BE JEA STANDARD. THE COVER SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT (REMOVE GASKET IF NECESSARY FROM THE UNDER SIDE OF STANDARD JEA COVER). THE COVER (WHEN FLIPPED OPEN) MUST CLEAR THE AIR VALVE ASSEMBLY AT ALL TIMES OR A SQUARE TOP WITH ALUMINUM DOOR SHALL BE PROVIDED (NON-TRAFFIC LOCATIONS ONLY).
4. FOR PIPE SIZES 3 INCH AND SMALLER, PROVIDE A STAINLESS STEEL BALL VALVE (2" MIN). FOR PIPE SIZES 4 INCH AND LARGER, PROVIDE A FLANGE GATE VALVE (WHEEL OPERATOR) OR PLUG VALVE. (LEVER ARM OPERATOR) SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
5. FOR A 2" AIR VALVE, PROVIDE 2" STAINLESS STEEL BALL VALVE AT THE MAIN. FOR AIR VALVES LARGER THAN 2" SIZE, PROVIDE A TAPPING SLEEVE OR DUCTILE IRON TEE FITTING. ALSO, FOR OFF-SET PIPING LARGER THAN 2 INCH SIZE, PROVIDE A GATE VALVE (INSTALLED VERTICALLY NEAR MAIN). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE.

AIR VALVE ASSEMBLY INSIDE MANHOLE IN ROW

JANUARY 2021 PLATE S-29B

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COA # 2822

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NO.	BY	DATE
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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER: CSE/LBG
DRAWN BY: DDH/WBG
DATE: MAY 2021
CHECKED BY: CDJ
DATE: MAY 2021

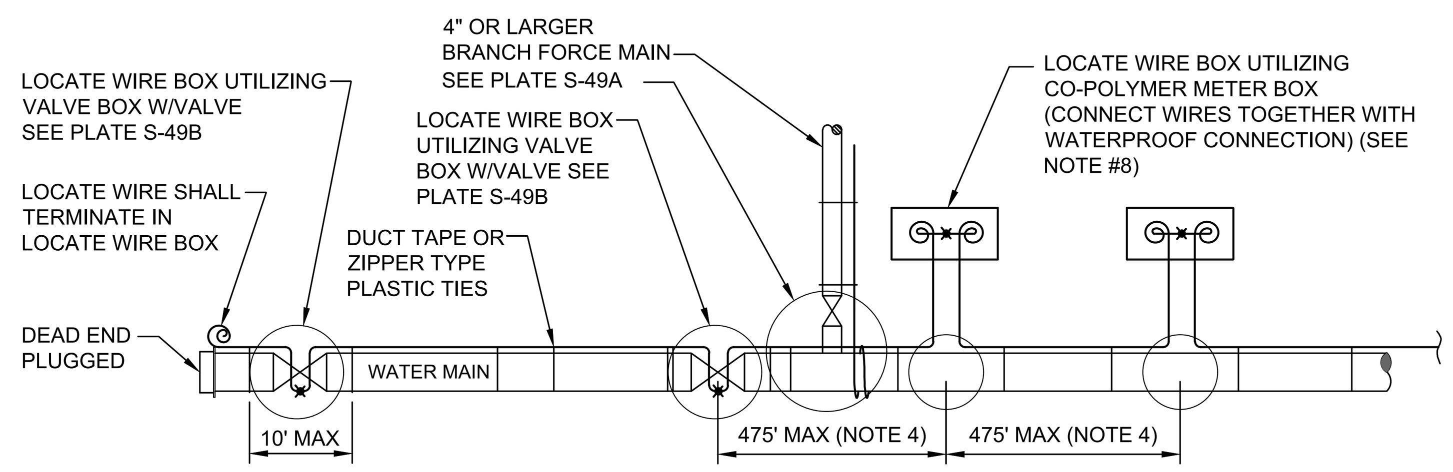
JEA Building Community

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
STANDARD SANITARY DETAILS 3

PROJ. NO. D32549S3
DATE: MAY 2021
SCALE: AS SHOWN

NO. SHEETS 89
SHEET NO. 87
DRAWING NO. STD-2.03

JEA PROJ NO.: 8004887
PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP



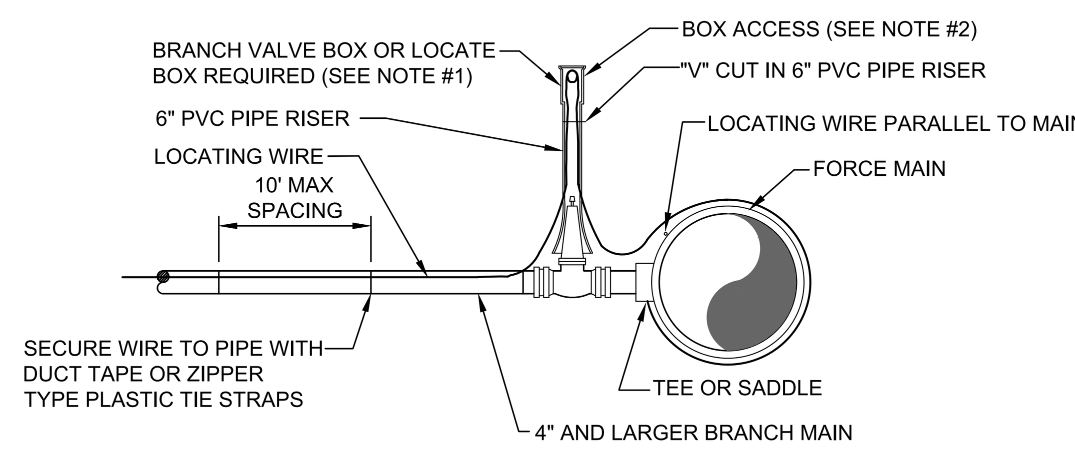
LOCATE WIRE SYSTEM

NOTES:

1. LOCATING WIRE TO BE INSTALLED IN EITHER THE ONE OR ELEVEN O'CLOCK POSITION ON ALL DUCTILE IRON 0R PVC (PRESSURE MAINS). LOCATE WIRE SHALL ALSO BE INSTALLED ON ALL (HDPE) POLY MAIN PIPING (1:00 OR 11:00 POSITION, IF POSSIBLE).
2. SECURE LOCATING WIRE TO PVC FORCE MAIN BY USE OF DUCT TAPE OR ZIPPER TYPE PLASTIC TIE STRAPS SPACED AT A MAXIMUM DISTANCE OF TEN (10') AND AT EACH SIDE OF BELL JOINT OR FITTING.
3. THE ENTIRE LOCATING SYSTEM SHALL BE SUBJECTED TO TESTING TO DETERMINE ITS RELIABILITY. WHERE INSTALLED UNDER PAVEMENT AREAS, TESTING SHALL BE DONE PRIOR TO THE PLACEMENT OF PAVEMENT, UNLESS APPROVED OTHERWISE BY JEA.
4. LOCATING WIRE SHALL TERMINATE WITHIN AN ACTIVE VALVE BOX (WITH A VALVE) OR A METER BOX (IF NO VALVE) AT 475' INTERVALS. SEE DETAIL PLATE S-49B. WIRE CONNECTIONS BELOW GROUND (OUTSIDE OF A BOX) SHALL BE AVOIDED.
5. LOCATING WIRE SHALL BE 12 GAUGE COPPER WIRE WITH .03 INCHES (MINUMUM) HDPE INSULATION THICKNESS, 0.141 INCHES (MINIMUN) O.D. RATED BREAK LOAD 250LBS., UF RATED (DIRECT BURIAL), GREEN COLOR. FOR HDD INSTALLATIONS, THE LOCATE WIRE SHALL BE COPPER CODED STEEL AS SPECIFIED IN SPEC. SECTION 750.
6. " " INDICATES THAT THE WIRES ARE CONNECTED TOGETHER WITH WATERPROOF CONNECTION. (SEE DETAIL W-49B)
7. " " INDICATES A WIRE PIG-TAIL (24" LONG)
8. AN "LW" CUT SHALL BE CARVED IN THE CONCRETE CURB AND PAINTED AT ALL LOCATE WIRE BOXES.
9. FOUR LANES OF TRAFFIC (HAVING TWO LANES OF TRAFFIC IN EACH DIRECTION) OR GREATER THE LOCATE WIRE AND VALVE BOX SHALL BE OFF-SET TO THE RIGHT-OF-WAY.

LOCATE WIRE CONSTRUCTION FOR FORCE MAINS

JANUARY 2021 PLATE S-49



BRANCH FORCE MAIN

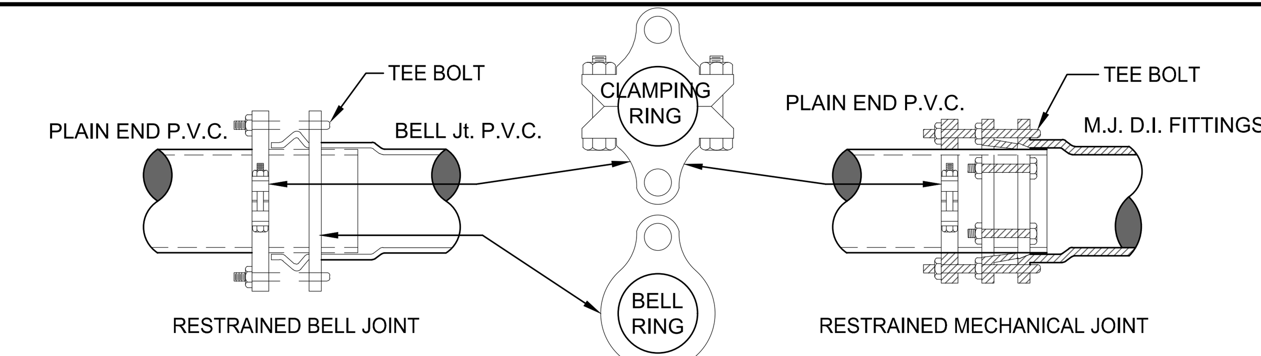
(4" AND LARGER SEWER MAIN)

NOTE:

1. NOTE THAT THE BRANCH WIRE IS NOT CONNECTED TO THE MAIN WIRE.
2. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE SECTION (SEE S-30).
3. LOCATE WIRE BOX SHALL BE INSTALLED OUTSIDE OF SIDEWALKS, DRIVEWAYS AND PAVEMENT.
4. " " INDICATES A WIRE PIG-TAIL (4' LONG)

LOCATE WIRE FOR BRANCH MAIN

JANUARY 2021 PLATE S-49A



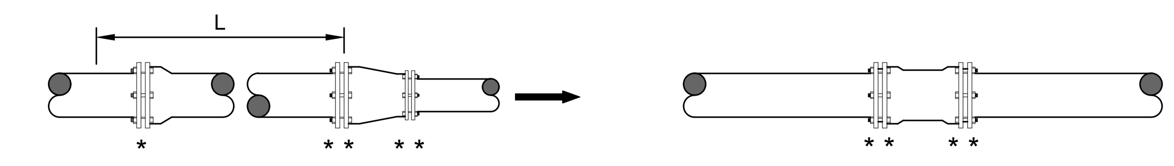
TYPICAL PROFILE

BELL JOINT TO PLAIN END
W/MECHANICAL RESTRAINERS

SECTION

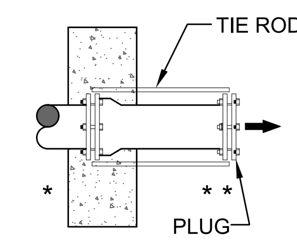
TYPICAL PROFILE

MECHANICAL JOINT TO PLAIN END
W/MECHANICAL RESTRAINERS



REDUCER

MECHANICAL JOINT SLEEVES



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

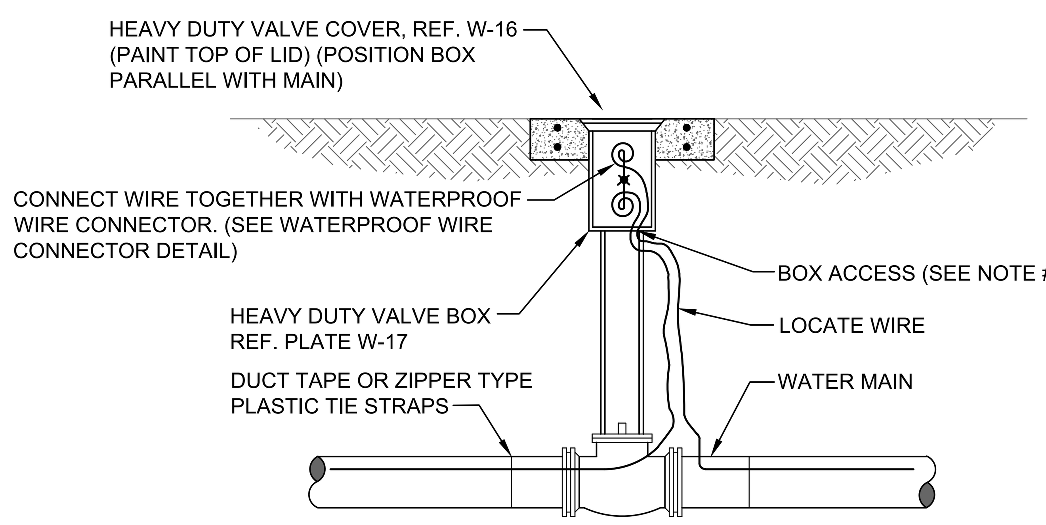
TO BE USED INSTEAD OF TOTAL RESTRAINED LENGTH (OPTIONAL) SIZE AS PER THRUST BLOCK DETAIL (W-38). SEE DETAILS W-36 & W-37.

GENERAL NOTE:

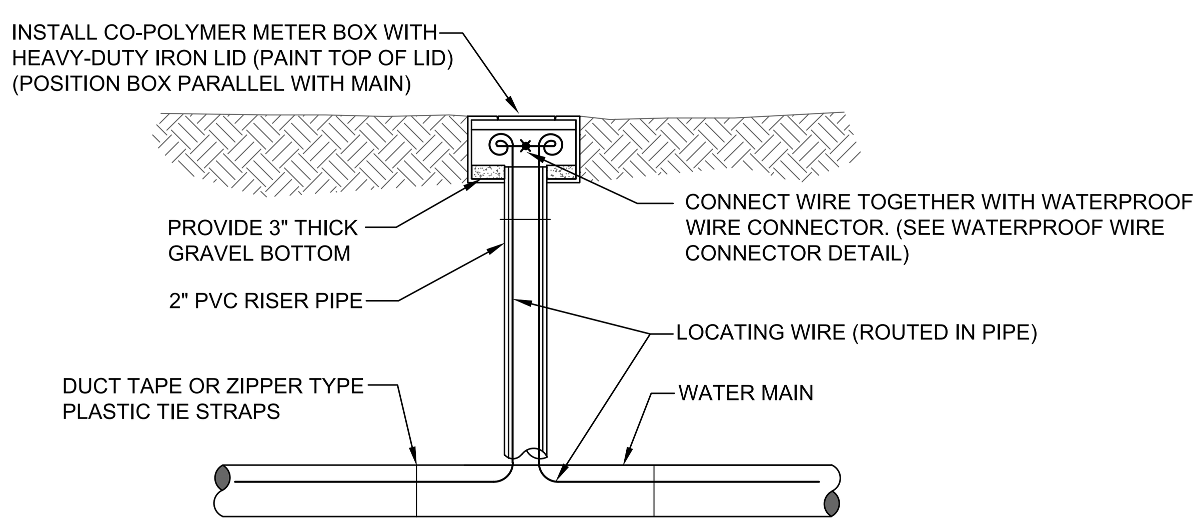
1. PAY ITEM " * " DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIS.
2. PAY ITEM " ** " DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.
3. INDICATES DIRECTION OF THRUST FORCE.

MECHANICAL RESTRAINT DETAILS - I

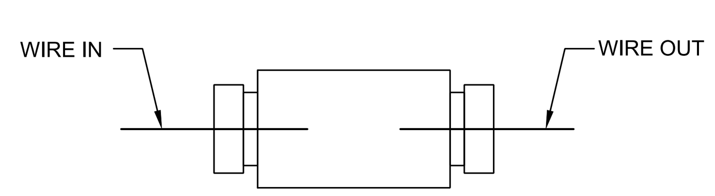
JANUARY 2021 PLATE S-38C



LOCATE WIRE BOX UTILIZING VALVE BOX



LOCATE WIRE BOX UTILIZING METER BOX



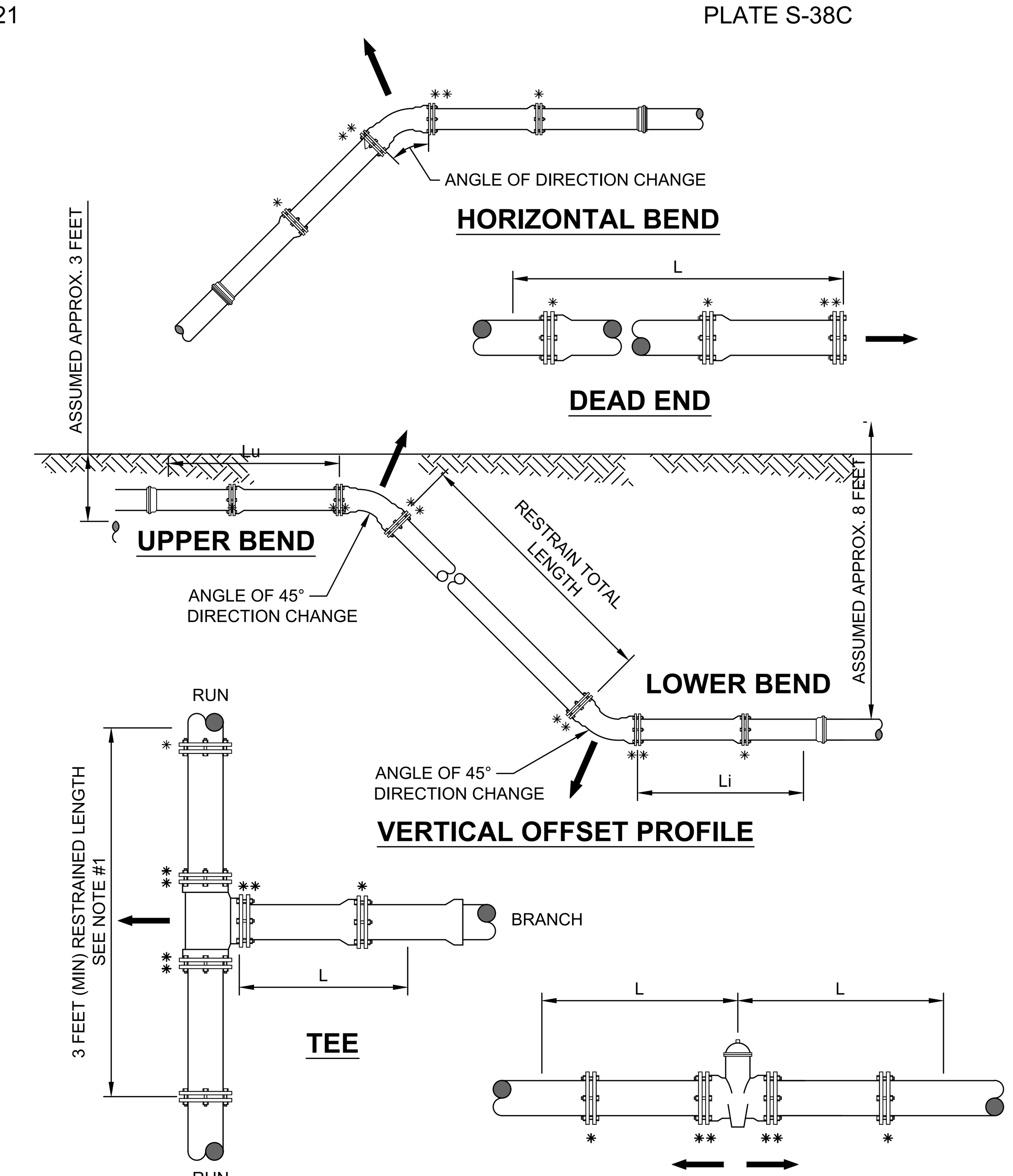
WATERPROOF WIRE CONNECTOR DETAIL

NOTES:

1. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE (SEE W-18).
2. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE AND LOCATE POINTS.
3. LOCATE WIRE CONNECTION SHALL ONLY BE A 2 WAY CONNECTION.

LOCATE WIRE BOX

JANUARY 2021 PLATE S-49B



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 2021 PLATE S-38D

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DESIGN ENGINEER: CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	DDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

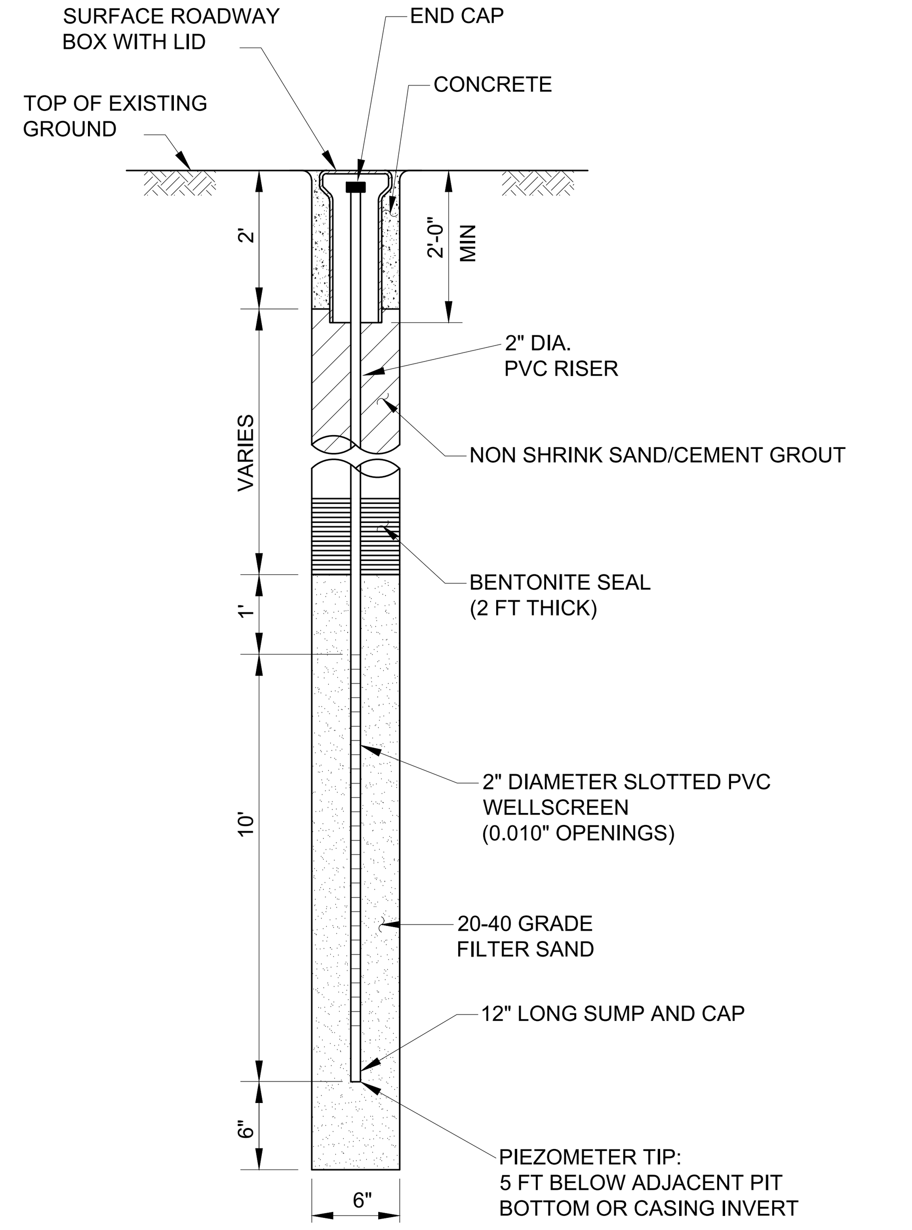
JEA Building Community sm

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
STANDARD SANITARY DETAILS 4

PROJ. NO.	D32549S3
DATE:	MAY 2021
SCALE:	AS SHOWN

NO. SHEETS 89
SHEET NO. 88
DRAWING NO. STD-2.04

JEA PROJ NO.: 8004887 PROJ TITLE: SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP

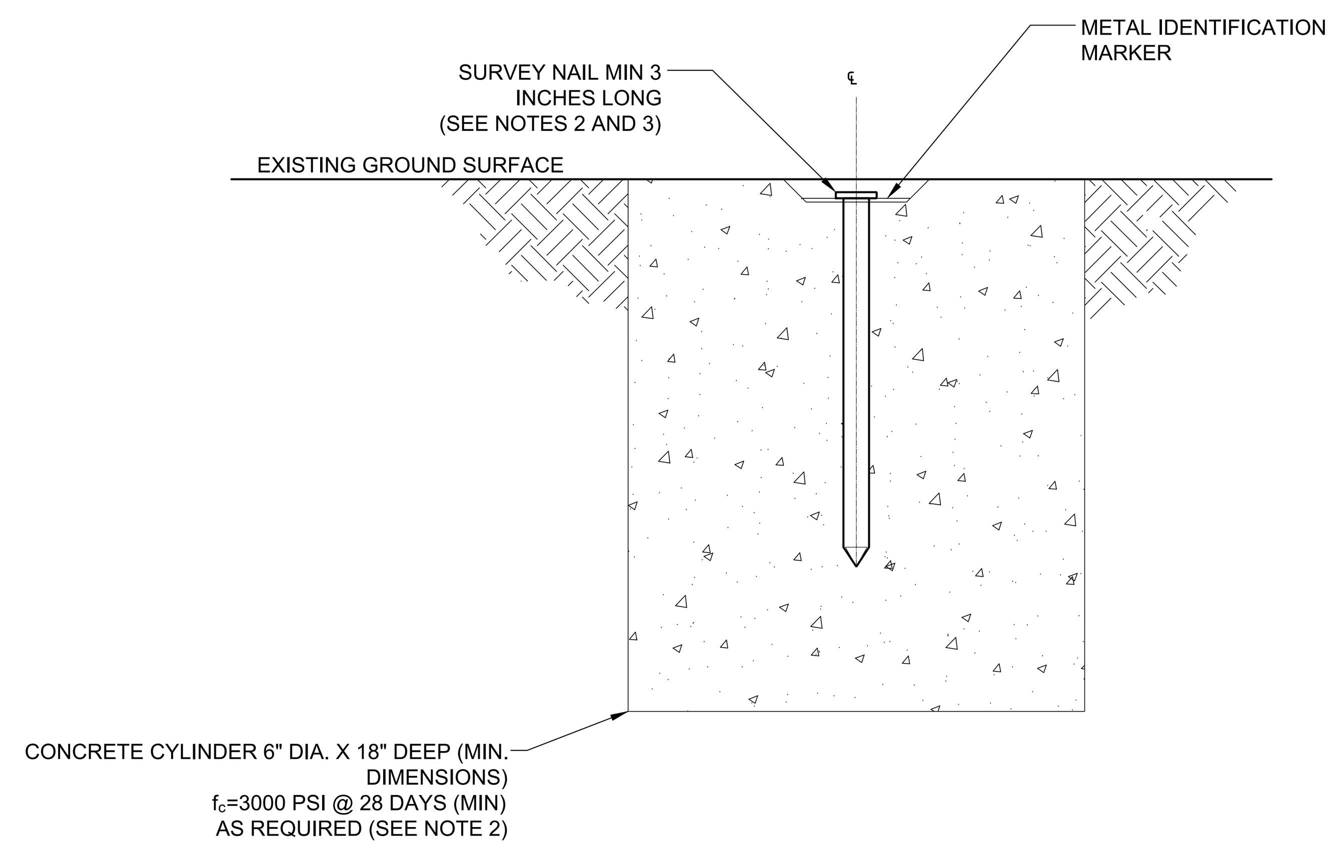


NOTES:

1. SEE SHEETS C-2.05 AND C-4.01 FOR PIEZOMETER LOCATIONS.
2. MONITOR INSTRUMENTS ACCORDING TO SCHEDULE PROVIDED IN SUPPLEMENTAL TECHNICAL SPECIFICATIONS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PIEZOMETER-PZ

NTS

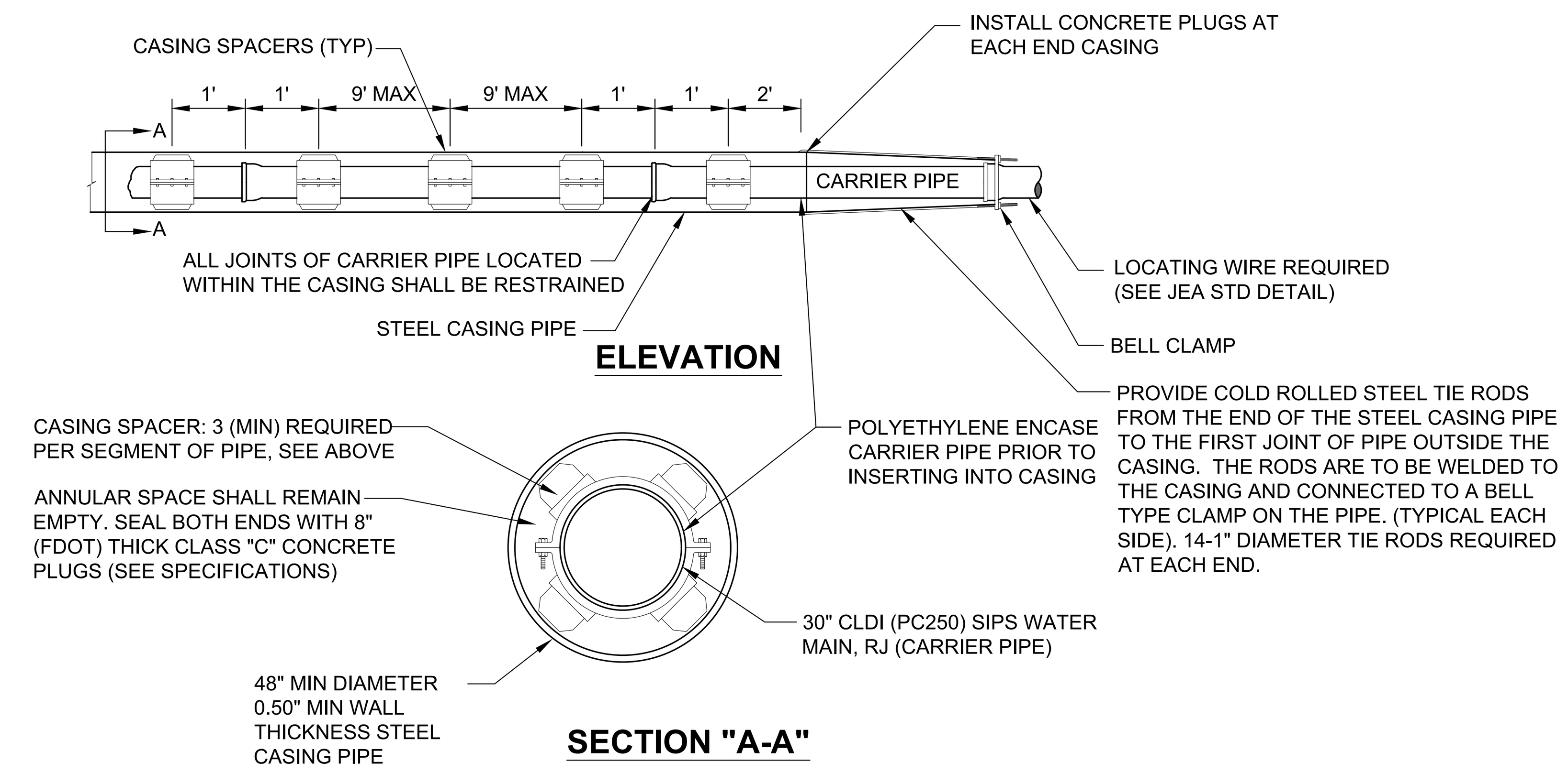


NOTES:

1. SEE SHEETS C-2.05, C-4.01, C-4.05, AND C-4.06 FOR SMP LOCATIONS.
2. SMPS SHALL CONSIST OF SURVEY NAILS EMBEDDED IN CONCRETE OR ASPHALT. IF SURFACE TO BE MONITORED IS NOT CONCRETE OR ASPHALT INSTALL CONCRETE CYLINDER OR BLOCK FOR NAIL AS SHOWN IN DETAIL.
3. SURVEY NAILS SHALL BE HARDENED STEEL WITH FLUTED SHANK PRODUCED FOR USE AS SURVEY MARKERS. PRE-DRILL INITIAL HOLE FOR SURVEY NAILS IN CONCRETE.
4. MONITOR INSTRUMENTS ACCORDING TO SCHEDULE PROVIDED IN SUPPLEMENTAL TECHNICAL SPECIFICATIONS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SETTLEMENT MONITORING POINT-SMP

NTS

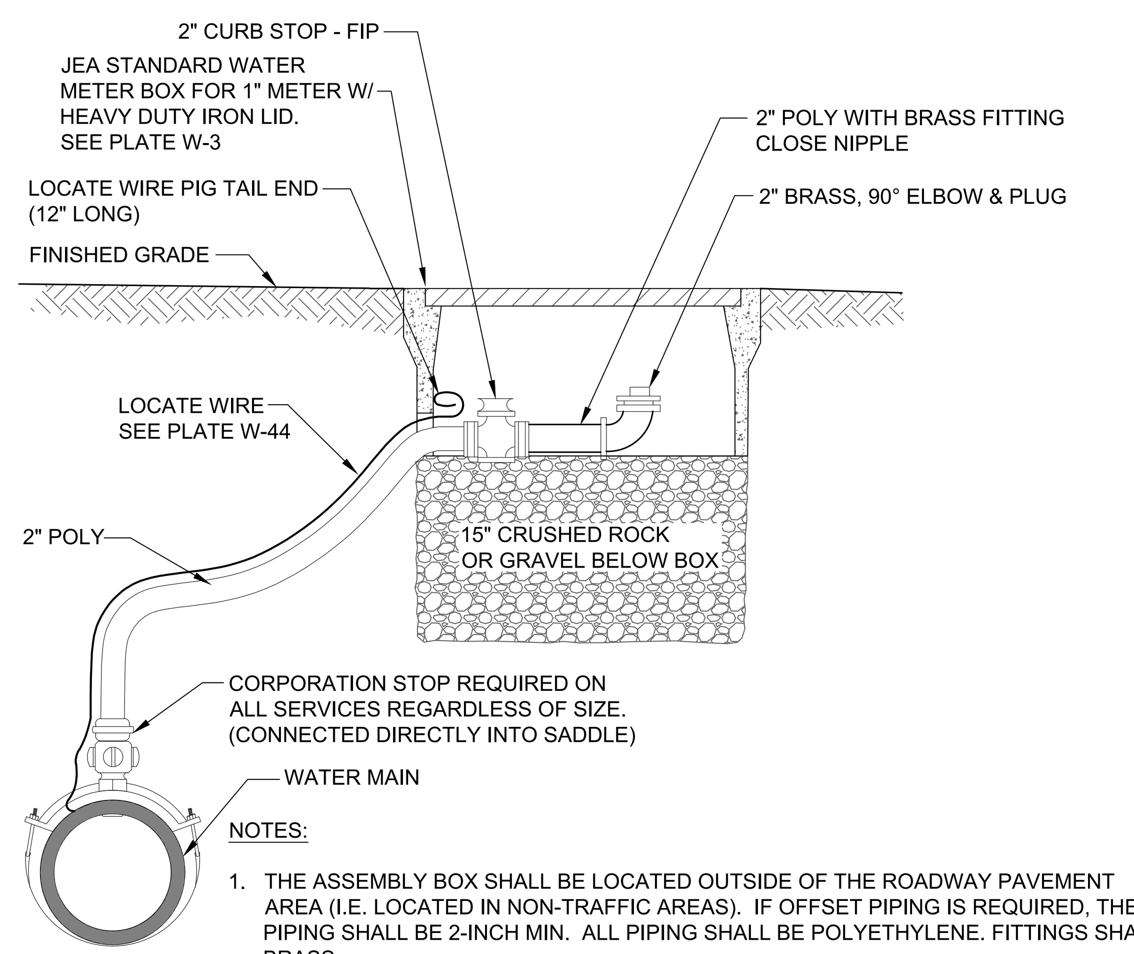


NOTES:

1. THIS DETAIL SUPERCEDES JEA STANDARD DETAIL W-30.
2. THE INSIDE DIAMETER OF THE CASING PIPE SHALL BE A MINIMUM OF 4 INCHES GREATER THAN THE OUTSIDE DIAMETER OF THE CARRIER PIPE BELL OR COUPLING.
3. ALL JOINTS WITHIN CARRIER PIPE SHALL BE RESTRAINED JOINTS.
4. THE DIMENSIONS OF CASING SPACERS SHALL BE AS RECOMMENDED BY THE CASING SPACER MANUFACTURER, AS REQUIRED TO PROVIDE 4" MINIMUM CLEARANCE BETWEEN THE PIPE BELL AND THE CASING, AND FOR INSTALLATION OF THE CARRIER PIPE AT THE ELEVATIONS SHOWN ON THE PROFILE. INSTALL THE CASING AT THE ELEVATIONS CORRESPONDING TO THE CASING SPACER RISER AND RUNNER DIMENSIONS SO THAT THE CARRIER PIPE IS AT THE ELEVATIONS SHOWN ON THE PROFILE.
5. SEE SUPPLEMENTAL TECHNICAL SPECIFICATION 33 05 07.23 FOR ADDITIONAL REQUIREMENTS.

STEEL CASING DETAIL

NTS



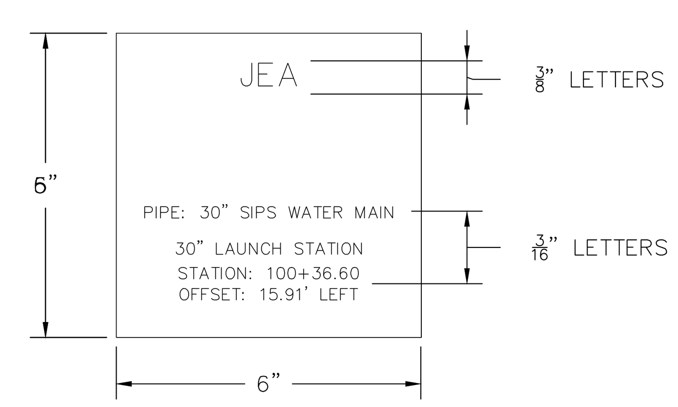
NOTES:

1. THE ASSEMBLY BOX SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA (I.E. LOCATED IN NON-TRAFFIC AREAS). IF OFFSET PIPING IS REQUIRED, THE PIPING SHALL BE 2-INCH MIN. ALL PIPING SHALL BE POLYETHYLENE. FITTINGS SHALL BE BRASS.
2. THE 2" CURB STOP SHALL BE ALL BRONZE. FITTINGS SHALL BE BRASS.
3. LOCATE WIRE REQUIRED. LOCATE WIRE FOR MAIN CAN BE INCORPORATED WITH ASSEMBLY, SEE PLATE W-44 FOR DETAILS.
4. FOR ALL MARV ASSEMBLIES FOR THE SIPS WATER MAIN: PROVIDE BRASS IDENTIFICATION TAG WITH "SIPS WATER MAIN", VALVE SIZE, VALVE TYPE AND DIRECTION, AND NUMBER OF TURNS TO OPEN. PROVIDE A ¼ INCH HOLE IN THE BRASS TAG AND ATTACH THE TAG TO THE END OF THE LOCATE WIRE (TWIST WIRE AROUND TAG). TAG SHALL BE 3-INCH DIAMETER AND ⅛ INCH THICK BRASS WITH A ¼ INCH HOLE.
5. FOR ALL MARV ASSEMBLIES FOR THE RAW WATER MAIN: PROVIDE BRASS IDENTIFICATION TAG WITH "RAW WATER MAIN", VALVE SIZE, VALVE TYPE AND DIRECTION, AND NUMBER OF TURNS TO OPEN. PROVIDE A ¼ INCH HOLE IN THE BRASS TAG AND ATTACH THE TAG TO THE END OF THE LOCATE WIRE (TWIST WIRE AROUND TAG). TAG SHALL BE 3-INCH DIAMETER AND ⅛ INCH THICK BRASS WITH A ¼ INCH HOLE.
6. A REMOVABLE VERTICAL PIPE STANCHION SHALL BE CONNECTED TO THE DISCHARGE ELBOW PRIOR TO OPENING OF THE CURB STOP TO AVOID FLOODING OF THE BOX.

BELOW GROUND FLUSHING/MANUAL AIR RELEASE VALVE/SAMPLE TAP ASSEMBLY DETAIL

NTS

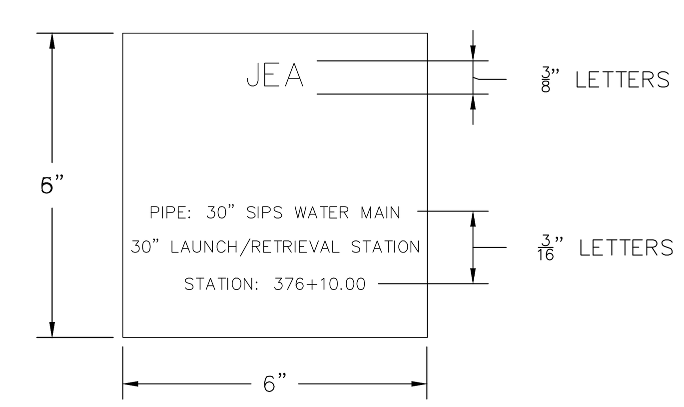
NORTH SIDE OF BRADLEY ROAD NEAR SOUTHSIDE BLVD



ID PLATE DETAIL - 1

NTS

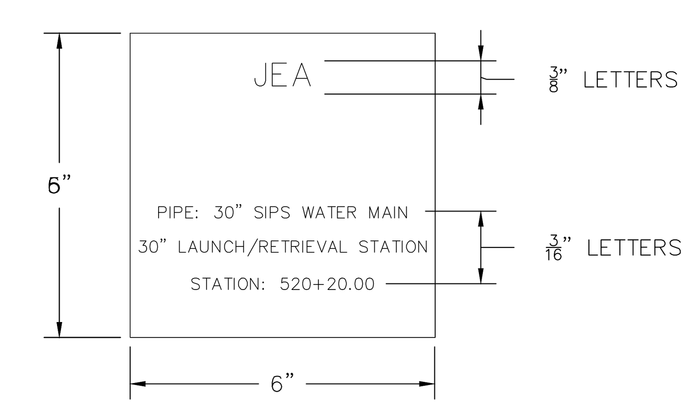
NORTH END OF T-LINE NEAR FOREST BLVD



ID PLATE DETAIL - 2

NTS

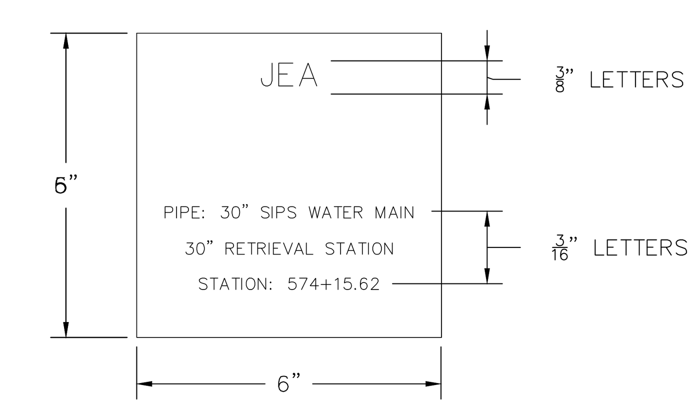
NORTH SIDE OF DITCH CROSSING



ID PLATE DETAIL - 3

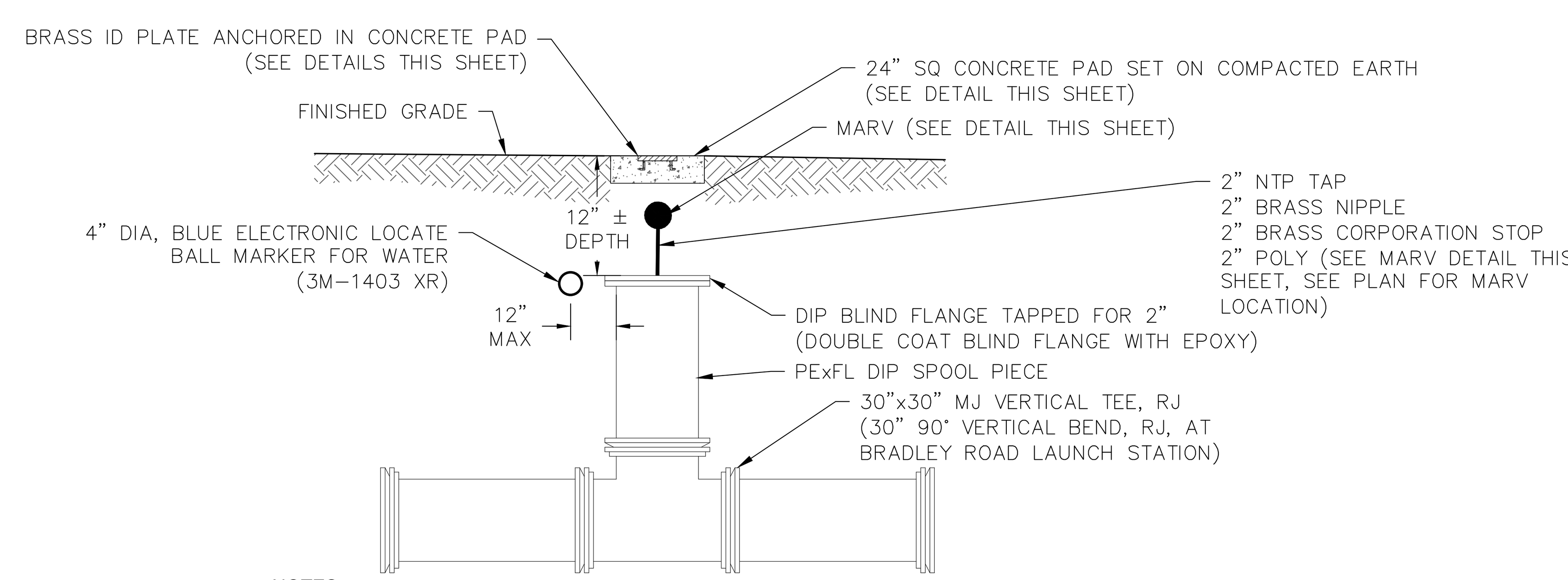
NTS

SOUTH SIDE OF DEERWOOD WTP ALONG BERM AT T-LINE



ID PLATE DETAIL - 4

NTS

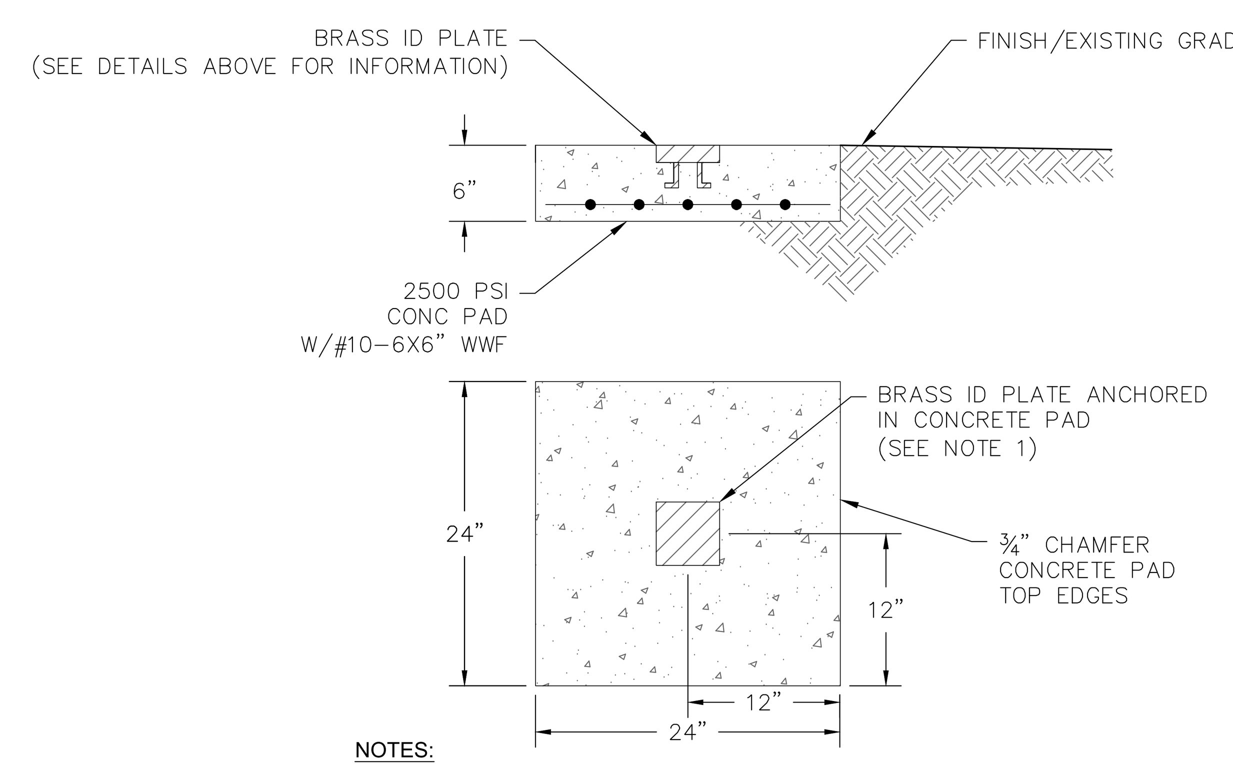


NOTES:

1. DETAIL IS FOR FINISHED CONDITION, AFTER FLUSHING AND PIGGING OPERATIONS ARE COMPLETE. CONTRACTOR TO PROVIDE TEMPORARY PIPING CONNECTED TO FLANGED SPOOL PIECE DURING FLUSHING AND PIGGING OPERATIONS. SEE TECHNICAL SPECIFICATIONS.

FLUSHING AND PIGGING LAUNCH/RETRIEVAL STATION ASSEMBLY DETAIL (OUTSIDE OF PAVEMENT)

NTS



NOTES:

1. ⅜" BRASS PLATE WITH ANCHORS IN SURFACE ON CONCRETE. PROVIDE MINIMUM OF 4 BRASS ANCHORS, MINIMUM OF 2" LONG.
2. THE ID PLATE STATION NUMBER SHALL BE UPDATED IF THE LOCATION OF THE STATION IS ADJUSTED FROM THE ORIGINAL DESIGN.

FLUSHING AND PIGGING LAUNCH/RETRIEVAL STATION PAD AND ID PLATE DETAIL

NTS

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REVISIONS

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DESIGN ENGINEER
CHRISTINE S. ELLENBERGER
FLORIDA REGISTRATION NO. 58418

DESIGNER:	CSE/LBG
DRAWN BY:	CDH/WBG
DATE:	MAY 2021
CHECKED BY:	CDJ
DATE:	MAY 2021

JEA Building Community℠

SIPS-SOUTHSIDE BLVD. INTERTIE TO DEERWOOD III WTP
SIPS WATER MAIN AND RAW WATER MAIN
MISCELLANEOUS DETAILS

PROJ. NO. D3254953
DATE: MAY 2021
SCALE: HORZ: 1" = 20' VERT: 1" = 2'

NO. SHEETS 89
SHEET NO. 89
DRAWING NO. STD-3.01