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

http://www.jea.com/business/services/devandbuild/developers.asr

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 Tower - 4th Floor 21 W. Church Street Jacksonville, FL 32202

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: None

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 Managemen 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	\$67.00 ea										
Standard	\$62.00 ea										
Stop/Yield	\$61.00 ea										
Design	\$85.00										
Installation	\$67.00 /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	a.m. till 9 a.m. and from 4 p.m. till 6 p.m.										

EASTPORT ROAD FORCE MAIN EXTENSION

PROJECT CONTACTS:

OWNER JEA

CIVIL ENGINEERS ALMOND ENGINEERING, P.A. 6277 DUPONT STATION COURT EAST, SUITE JACKSONVILLE, FL 32217 904) 306-0162 PHONE

ATTN: MR. ERIC J. ALMOND, P.E. EALMOND@ALMONDENGINEERING.COM

ATTN: MRS. HILLARY L. ALMOND, P.E. HALMOND@ALMONDENGINEERING.COM

ATTN: MR. WILLIAM J. BYERS, P.E. WBYERS@ALMONDENGINEERING.COM

<u>SURVEYOR</u> JOHNSON SURVEYING AND MAPPING, INC. 10250 NORMANDY BLVD., SUITE 604 JACKSONVILLE, FL. 32221

ATTN: DON JOHNSON, P.L.S. DON@JOHNSON-SURVEYING.COM

904) 619-6630



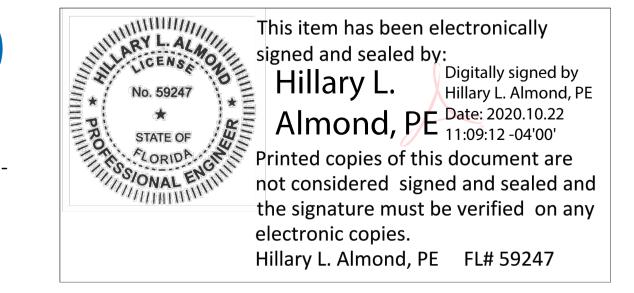
RENNE DRIVE BETWEEN EMUNESS ROAD AND SARA DRIVE JEA PROJ. NO.: 8005937 JEA AVAILABILITY 2020-3228



CERTIFICATE OF AUTHORIZATION NO.: 27254

IND	EX OF DRAWINGS
Sheet No.	Description
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C-4	OVERALL UTILITY PLAN KEY SHEET
C-5	ROADWAY & SEWER PROFILES
C-6	ROADWAY & SEWER PROFILES
C-7	ROADWAY & SEWER PROFILES
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S-4	JEA SANITARY SEWER DETAILS
S-5	JEA SANITARY SEWER DETAILS
VV-1	JEA WATER DETAILS

da e



(CDN: 4161.	328
RCV	: 10/22/202	20 15:52
PLAN APPRO	VAL	
Approved By: Ellyn Cay Stamp By: Kevin Ro Approved On: November	obinson	Z S
Dat <mark>FINAL APPR®™E</mark> ¶	n (Reviewer)	
Plan approval is valid for five years afte date. Revisions made after the initial ap extend this five-year time frame.		
PLAN APPROVAL IS SUB. FOLLOWING NOTES AND		CONSULTING
		CDN 4161.328
		8
		EASTPORT ROAD FORCE MAIN EXTENSION JEA PROJ NO.: 8005937 JEA AVAILABILITY 2020-3228 (AE PROJECT 20-43)
GENERAL PROJECT IN	FORMATION	sm
GENERAL City Development Number Concurrency Application Number Property Appraiser Number (RE #) Zoning Designation PUD Ordinance Number FIRM – Community – Panel Flood Zones (Show in Plans) Base Flood Elev. Vertical Datum Used for Project JEA Availability Number SJRWMD Permit NumberSUBDIVISION DED Neglar	4161.328 N/A N/A N/A - N/A - NAVD 88 2020-3228 N/A	SUBMITTAL #1
PSD Number City or Private Inspection Public or Private Roads Subdivision ("911") Disk Provided? <u>NON-SUBDIVISION</u>	- - <u>PUBLIC</u> -	REVISION INFO. DATE DESC.
North American Industry Classification System (NAICS) Impervious Area (Sq. Ft.)		
JEA # 2020-32 PLANS DESIGNED IN ACCORDANCE WIT		C-1

NOT APPI

SURVEY AND LOCATE DATA:

- 1. ALL ELEVATIONS ARE BASED ON U.S.C.&G.S. DATUM AND SHOWN IN FEET.
- 2. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- 2. THE LOCATION OF EXISTING UTILITIES OBTAINED BY SOFT DIG LOCATES WHERE SHOWN ON PLANS, OR INCLUDED WITH BID SPECS.
- 4. EXISTING WATER AND SEWER LINES ARE SHOWN AS PER FIELD LOCATES AND SUBDIVISION AS-BUILT PLANS.
- 5. UNDERGROUND UTILITIES WERE LOCATED UTILIZING GROUND PENETRATING RADAR (GPR) AND A DIGITAL LOCATOR. CONTRACTOR SHALL BE AWARE THAT IN SOME CASES UTILITIES HAVE BEEN LOCATED, AND SURVEY HAS BEEN COMPLETED ONLY ON ONE SIDE OF THE ROAD.
- 6. ALL PIPE LENGTHS SHOWN ON PLAN AND PROFILES ARE FROM CENTER TO CENTER OF MANHOLES, CATCH BASINS, INLETS ETC. OR ALONG THE CENTER LINE OF FORCE MAINS AND WATER MAINS.
- 7. INVERT ELEVATIONS SHOWN ON DRAWINGS REFER TO THE CENTERLINE OF MANHOLES, UNLESS OTHERWISE INDICATED.
- 8. THE LOCATION OF ALL EXISTING SEWER AND WATER SERVICE LINES MAY NOT BE INDICATED ON THESE PLANS. THE LOCATION OF NEW SERVICES SHALL BE VERIFIED IN THE FIELD.

9. BENCHMARK DATA: PRIMARY B.M. BENCH MARK DISK SET IN CONCRETE MONUMENT. PID BC0245, STAMPED W 142 1954. DISK IS 46.5' WEST OF THE MAIN TRACK OF CSX RAILROAD AND 30' NORTH OF THE ENTRANCE DRIVEWAY TO NUTI TURF (11650 N MAIN ST,). ELEVATION IS 18.73 NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

PERMIT REQUIREMENTS (NOT ALL INCLUSIVE):

- 1. CONTRACTOR TO OBTAIN ALL REQUIRED RIGHT-OF-WAY PERMITS.
- 2. CONTRACTOR SHALL NOT OPEN CUT STREETS IN THE PROJECT AREA UNLESS SPECIFICALLY SHOWN ON PLANS
- 3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CONSUMPTIVE USE PERMIT (C.U.P.) THROUGH THE ST. JOHNS WATER MANAGEMENT DISTRICT SHOULD DEWATERING ACTIVITIES BE REQUIRED.
- 4. THE DEPARTMENT OF TRANSPORTATION, RAILROAD COMPANIES AND ST. JOHNS COUNTY 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 ST. JOHN COUNTY 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 ST. JOHNS COUNTY APPLICABLE ORDINANCE CODES 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 ST. JOHN COUNTY 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.

ABBREVIATIONS:

				$\overset{\text{WV}}{\longrightarrow}$ = water value
AC	ASBESTOS CEMENT	INT.	INTERSECTION	
A.G.	ALLEY GRATE	INV.		= MAIL BOX
₽	BASE LINE	I.P.		
B.M.		J.W.W.	JACKSONVILLE WATER	
BC	BOTTOM OF CURVE		WORKS	🥥 = 5" POST
C.B. C.I.	CATCH BASIN	LT. MB	LEFT	
	CAST IRON CENTER LINE	MB M.H.	MAIL BOX MANHOLE	🖌 = 5" SQUARE POST
ዊ C.E.P.	CITY ELECTRIC POLE	N.T.S.	NOT TO SCALE	
CONC.	CONCRETE	0.E.	OVERHEAD ELECTRIC	E = WIRE PULL BOX
CONST.	CONSTRUCTION	0.L. 0.T.	OVERHEAD TELEPHONE	
C.M.P.	CORRUGATED METAL PIPE	P.R.M.	PERMANENT REFERENCE	(S) = SEWER MANHOLE
C.M.P.A.	CORRUGATED METAL PIPE ARCH	1 .1 (.101.	MONUMENT	C//
CULV.	CULVERT	P.V.C.	POLYVINYL CHLORIDE	= SEWER VAVLE
C&G	CURB & GUTTER	r	RADIUS	
C	CUT	R	RATE	
D.B.I.	DITCH BOTTOM INVERT	R.C.P.		CMP = CORRUGATED METAL
D.W. OR DR	DRIVEWAY	RT	RIGHT	RCP = REINFORCED CONCRE
D.I.	DUCTILE IRON	R/W	RIGHT OF WAY	
E.O.P.	EDGE OF PAVEMENT	R.D.	ROOF DRAIN	CPP = CORRUGATED PLASTIC
ELEV.	ELEVATION	S/W	SIDE WALK	PVC = POLYVINYL CHLORIDE
ERCP	ELLIPTICAL REINFORCED	S.B.T.	SOUTHERN BELL TELEPHONE	TC = TERRACOTTA
	CONC. PIPE	STA	STATION	00.00 = HARD ELEVATION
EXP. JT.	EXPANSION JOINT	TC	TOP OF CURVE	00.0 = SOFT ELEVATION
F	FILL	U.G.E.	UNDERGROUND ELECTRIC	TH = TEST HOLE
F.H.	FIRE HYDRANT	U.G.T.	UNDERGROUND TELEPHONE	
፹	FLOW LINE	U.S.C. & G.S.	UNITED STATES COASTAL &	A = ASPHALT
FM	FORCE MAIN		GEODETIC SURVEY	G = GUTTER
GALV./GLV	GALVANIZED	V.C.	VITRIFIED CLAY	C = CURB
G	GASLINE	WM	WATER METER	ELEV. = ELEVATION
G.V.	GAS VALVE	W.V.	WATER VALVE	(00.00) = HARD ELEVATION
HDPE	HIGH DENSITY	WLP	WOOD LIGHT POLE	(00.0) = SOFT ELEVATION
	POLYETHYLENE PIPE	WPP	WOOD POWER POLE	
H.W.		WTP	WOOD TELEPHONE POLE	INV. = INVERT
H.C.	HIGH CURB			B.M. = BENCH MARK

EXISTING

- = FOUND 1/2" IROUNLESS OTHERWI O = SET 1/2" IRON \blacksquare = FOUND 4"x4" CC UNLESS OTHERWI \square = SET 4"x4" CONC \odot = FOUND PK NAIL UNLESS OTHERWI Θ = SET PK NAIL LB $\Delta = DELTA$ R = RADIUSL = ARC LENGTHCB = CHORD BEARINGCD = CHORD LENGTHPC = POINT OF CURVAT
- PT = POINT OF TANGEND.B. = DEED BOOKO.R. = OFFICIAL RECORDPG. = PAGEID = IDENTIFICATIONLB = LICENSED BUSINES(M) = FIELD MEASURED
- (C) = CALCULATED(P) = PLATNO. = NUMBERW.O. = WORK ORDER
- A.C. = AIR CONDITIONING \bigcirc = POWER POLE WO
- $-\Box =$ POWER POLE CO
- \subset = GUY ANCHOR

-----O = CHAIN LINK FENCE

----x ---- = WIRE FENCE

----= WOOD FENCE

----- = INFORMATION SIGN

<u>R</u>	ESTORATION NOTES:	NOT APP.
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 ST. JOHN COUNTY 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 ST. JOHN COUNTY/FDOT STANDARD SPECIFICATIONS.	
4.	SIDEWALKS, DRIVEWAYS AND CURBING DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH ST. JOHNS COUNTY 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. MATCH EXISTING SOD. CONTRACTOR TO WATER UNTIL ESTABLISHED. NO SEEDING ALLOWED.	
6.	ALL PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH THE ST. JOHN COUNTY/FDOT STANDARD DETAILS AND SPECIFICATIONS LATEST EDITION.	
7.	UNLESS OTHERWISE NOTED, REMOVE AND REPLACE EXISTING PAVEMENT AS PER S.J.C. DETAIL 201 FOR OPEN ROAD CUTS.	
8.	CONTRACTOR MUST MAINTAIN AND PRESERVE NEWLY GRADED AREAS AND REPAIR AREAS WHERE SETTLING AND EROSION HAVE OCCURRED.	
	GENERAL LEGEND	
EXIST		
) 1/2	2° IRON PIPE NO ID	
/2"	HERWISE NOTED RON PIPE LB 7944	
S OT	4" CONCRETE MONUMENT NO ID HERWISE NOTED	
	CONCRETE MONUMENT LB 7944 NAIL NO ID	
	HERWISE NOTED L LB 7944	\boxtimes
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ILATE		
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	ONING UNIT	
	LE WOOD LE CONCRETE	_
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NCHOF IATION	R I SIGN	

C = CABLE FENCE	
ELEC $$ = UNDERGROUND ELECTRIC LINE	
FOC $$ = UNDERGROUND FIBER OPTIC LINE	
-CATV - = UNDERGROUND TELEPHONE LINE	
OHU $$ = OVERHEAD UTILITY LINE	
TOP OF DITCH/SLOPE	
= BOTTOM OF DITCH	
\boxtimes = WATER METER	
💭 = FIRE HYDRANT	
. WV.	
WV = WATER VALVE	
= MAIL BOX	
(a) = 5" POST	
Q = 5 POSI	
= 5" SQUARE POST	
E = WIRE PULL BOX	

TAL PIPE ICRETE PIPE STIC PIPE

RIDE PLASTIC PIPE

IND	EX OF DRAWINGS									
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S-4	JEA SANITARY SEWER DETAILS									
S-5	JEA SANITARY SEWER DETAILS									
W-1	JEA WATER DETAILS									

INSTALLATION NOTES:

OTHERWISE NOTED ON THE PLANS

		OTHERWISE NOTED ON THE PLANS.
	2.	CONTRACTOR TO RENEW, REHABILITATE, REPLAC
	3.	CONTRACTOR TO INSTALL SEWER SERVICE PIPING LESS THAN 5 FEET DEEP, THE SEWER SERVICE PIP
	4.	WHEN THE DISTANCE BETWEEN A POWER POLE A RESPONSIBLE FOR COORDINATING WITH JEA ELEC FOLLOWS:
		NORTHSIDE~EAST of US-1 MIKE CORBITT @ NORTHSIDE~WEST of US-1 ANDY YEAGER @ NORTHSIDE~BACKUP ALAN AINSLEY @ 665 SOUTHSIDE~SOUTH of BEACH BLVD. TOM K SOUTHSIDE~NORTH of BEACH BLVD. DERYI SOUTHSIDE~BACKUP EDDIE GALES @ 665-0 A MINIMUM OF TWO (2) WORKING DAYS NOTICE IS REQUIRED WORK. ADDITIONAL TIME WILL BE REQU
	5.	ALL NEW STORM DRAIN PIPE JOINTS SHALL BE WE
	6.	THE DESIGN FOR THE PROJECT IS BASED UPON THE METHODS, THE CONTRACTOR SHALL FOLLOW ALL
	7.	THE CONTRACTOR SHALL MINIMIZE SERVICE INTE TO THE DISCRETION OF THE CONTRACTOR, SUBJE SERVICE SHALL BE LEFT INTERRUPTED AT THE EN
	8.	CONTRACTOR SHALL PROVIDE ADDITIONAL CORPO NEEDED. CORPORATION STOPS ARE TO BE PLUGO DRAWINGS (AS-BUILTS).
	9.	WATER AND SEWER SERVICES SHALL BE TRANSFE PRIOR TO THE EXISTING MAINS BEING ABANDONE
	10.	IF EXISTING VALVES ARE IN UNPAVED AREAS AND AND COVER SHALL BE REMOVED. IF THE VALVES A AND THE COVER REMOVED.
	11.	CONTRACTOR SHALL REPLACE EXISTING WATER
	12.	CONTRACTOR TO PROVIDE ADDITIONAL DEPTH OF STANDARDS.
	13.	WATER METERS MAY REQUIRE RELOCATION FOR RELOCATE WATER METERS AS NECESSARY.
⊠	14.	PRIOR TO COMMENCING ANY EXCAVATION OR GRA SURVEY DATA AND LOCATIONS OF ABOVE GROUN INACCURACIES, ERRORS OR OMISSIONS IN THE SU PROPER ADJUSTMENTS CAN BE ANTICIPATED AND
	15.	SHEET PILING WILL BE REQUIRED ON ALL EXCAVA
Ø	16.	CONTRACTOR SHALL FOLLOW JEA STANDARDS AN IS IMPACTED DURING CONSTRUCTION. SEE JEA
⊠	17.	THE CONTRACTOR SHALL RESTRAIN ALL JOINTS OF ACTIVITIES.
	18.	CONTRACTOR IS RESPONSIBLE FOR SUPPORTING/ POLE SUPPORT/HOLDING ACTIVITY CAN BE PERFO ELECTRICAL CONTRACTOR. COST ASSOCIATED W
\boxtimes	19.	DRIVEWAY PROTECTION:

19. DRIVEWAY PROTECTION:

OPEN CUT

PIPE BURST:

UTILITY CONTACTS:

A. AT&T ~ GENERAL NUMBER— — — — — — — — —
B. AT&T ~ ADAM DUGAN ~ NORTH DISTRICT— — — — —
C. AT&T ~ BILL LAKE ~ SOUTH DISTRICT— — — — —
D. ST. JOHNS COUNTY ~ PUBLIC WORKS DEPT. — —
E. ST. JOHNS COUNTY ~ TRAFFIC OPERATIONS — — —
F. FLORIDA DEPT. OF TRANSPORTATION – — — – –
G. JEA ~ GENERAL INFORMATION— — — — — — —
H. JEA ~ PROJECT OUTREACH— — — — — — — — —
I. JEA ~ POWER OUTAGES — — — — — — — — — —
J. JEA ~ SEWER PROBLEMS — — — — — — — — — –
K. JEA ~ WATER PROBLEMS — — — — — — — — —
L. JEA ~ WATER & SEWER LOCATES — — — — — —
M. NASSAU COUNTY ~ PUBLIC WORKS ~ CHARLES HOUST
N. ST. JOHNS COUNTY ~ RIGHT-OF-WAY PERMITTING ~ RI
O. ST. JOHNS COUNTY ~ TRAFFIC SIGNALS ~ HANK MEIN-
P. COMCAST ~ EMERGENCY HOTLINE – — — — –
Q. TECO/PEOPLES GAS ~ BEN MOBLEY — — — — —

ALL ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

<u>PRIMARY B.M.</u>

B.M.= BENCH MARK DISK SET IN CONCRETE MONUMENT. PID BC0245. STAMPED W 142 1954. DISK IS 46.5' WEST OF THE 🛛 🗆 MAIN TRACK OF CSX RAILROAD AND 30' NORTH OF THE ENTRANCE DRIVEWAY TO NUTI TURF (11650 N MAIN ST,). ELEVATION IS 18.73 NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

PLATS OF SAN MATEO SECTION 4 & 6 RECORDED IN PLAT BOOKS 28. PAGE 91 AND PLAT BOOK 29, PAGE 44 RESERVE A 👿 🗍 5' EASEMENT FOR DRAINAGE AND UTILITIES ON THE SIDE AND REAR OF EACH LOT.



GENERAL SITE NOTES:

- ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF "CITY STANDARD SPECIFICATIONS FOR CITY OF JACKSONVILLE, FLORIDA", (LATEST REVISION) AND ALL CURRENT CITY STANDARD DETAILS. THE WORK SHALL ALSO BE PERFORMED AND TESTED IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL INVESTIGATION REPORT BY: MAE-MESKEL & ASSOCIATES ENGINEERING, 904-519-6990 IF MORE STRINGENT THAN CITY REQUIREMENTS.
- ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH OSHA REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUB-SURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT AT CONTRACTOR'S SOLE COST AND EXPENSE. THE CONTRACTOR IS ALSO URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THE PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO THE CONSTRUCTION OF THE PROJECT.
- OWNER SHALL BE NOTIFIED IF THE CONTRACTOR ENCOUNTERS UNSUITABLE MATERIALS ANY FIELD EXPLORATION AND/OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL THAT WILL REQUIRE REMOVAL AND/OR TO ESTIMATE THE AMOUNT OF OFF SITE BORROW THAT WILL BE REQUIRED WILL BE AT THE OWNERS EXPENSE.
- ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. IF THE WORK IS IN CITY RIGHT-OF-WAY OR EASEMENT. THE CONTRACTOR'S ONE YEAR WARRANTY SHALL ALSO EXTEND TO THE CITY OF JACKSONVILLE.
- 6. ELEVATIONS ARE BASED ON NAVD 88
- 7. SURVEY INFORMATION TAKEN BY: Johnson Surveying and Mapping, Inc. Jacksonville, Fl. 3222
- TREE SURVEY INFORMATION TAKEN FROM FIELD VISITS AND EXISTING PLANS AND ARE RELATIVE.
- 9. FOR BOUNDARY, ROADWAY AND BUILDING GEOMETRY INFORMATION SEE ENGINEERING SITE PLAN. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT THE BUILDING DIMENSIONS SHOWN ON THE ENGINEERING PLAN AGREES WITH THE DIMENSIONS SHOWN ON THE ARCHITECTURAL PLAN. IF ANY DIMENSIONS DO NOT AGREE. THE ARCHITECT, ENGINEER AND OWNER SHALL BE NOTIFIED AND THE DIMENSIONS ADJUSTED PRIOR TO COMMENCING WITH CONSTRUCTION.
- 10. THE CONTRACTOR WILL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOIL TESTING IN ACCORDANCE WITH CITY REQUIREMENT AND THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL INVESTIGATION REPORT. THIS SHALL INCLUDE DENSITY TESTS IN ALL PAVEMENT AREAS AND BUILDING PADS AND IN ALL UTILITY TRENCHES LOCATED IN PAVEMENT AREAS, CONCRETE TESTING AND ALL OTHER MATERIAL TESTING. PRIOR TO LIMEROCK PLACEMENT, THE PROJECT GEOTECHNICAL ENGINEER SHALL MAKE RECOMMENDATION FOR UNDERDRAIN PLACEMENT
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE PROJECT INCLUDING CITY OF JACKSONVILLE RIGHT-OF-WAY PERMITS FOR WORK IN THE CITY RIGHT-OF-WAY OR EASEMENT.
- THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH 12. ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION: OTHERWISE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS INCURRED.
- 13. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN FIELD VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION. IF THE LOCATIONS SHOWN ARE CONTRARY TO THE ACTUAL LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY, PRIOR TO ANY SUCH NOTIFICATION. THIS DISCREPANCY SHALL BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL REPAIR OR PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS, PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH HE SHALL CONNECT.

PAVEMENT MARKING 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 WILL BE CONSIDERED AN INCIDENTAL ITEM WITH NO ADDITIONAL COMPENSATION PROVIDED.
- 5. THERMOPLASTIC PAVEMENT MARKINGS ARE TO BE PLACED 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 (RPM'S) 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 ACCEPTED. (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 SPECIFICATIONS OF THE FDOT, THE CITY OF JACKSONVILLE WILL PREVAIL.

PAVING AND DRAINAGE NOTES:

- 1. "AS-BUILT" DRAWINGS DRAINAGE AS-BUILTS PROVIDED TO CITY OF JACKSONVILLE AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR; THEREFORE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION AND SUBMITTAL OF "AS-BUILT" DRAWINGS IN ACCORDANCE WITH CURRENT CITY OF JACKSONVILLE STANDARDS AND SPECIFICATIONS AND SJRWMD REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREPARE AND SUBMIT AS-BUILT DRAWINGS TO THE ENGINEER FOR INTERNAL APPROVAL AND THEN CITY OF JACKSONVILLE. IN ADDITION TO THE DRAINAGE SYSTEM THE "AS-BUILTS" SHALL SHOW THE ELEVATIONS AND LOCATION OF THE TOP OF BANK, WATER LEVEL, TOE OF SLOPE AND POND BOTTOM AT 200' MAXIMUM INTERVALS ALONG POND BANK FOR ALL POND CONSTRUCTION.
- ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH CITY STANDARDS AND GEOTECHNICAL REPORT, AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL COMPACTED AND TESTED IN ACCORDANCE WITH GEOTECHNICAL INVESTIGATION REPORT
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.
- ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR.
- ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTORS UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.
- 6. ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
- BURNING OF TREES, BRUSH AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED AND COORDINATED WITH CITY OF JACKSONVILLE FIRE MARSHAL
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A 8. PERMANENT STAND OF SOD AND/OR GRASS PER CITY OF JACKSONVILLE STANDARDS AND MEETING THE NPDES FINAL STABILIZATION REQUIREMENTS.
- FOR SEDIMENT AND EROSION CONTROL PLANS, DETAILS AND NOTES REFER TO SHEETS C-19 AND C-20
- 10. UNSUITABLE MATERIALS UNDER WATER, SEWER PIPE, STORM PIPE OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED.
- 11. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION & REPAIR AT CONTRACTOR'S SOLE COST AND EXPENSE.
- 12. ALL CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY, UTILITIES, DITCHES, BERMS AND BUILDINGS INCLUDED IN THIS PROJECT AND THE CLEARING AND GRUBBING OF ALL RIGHT-OF-WAY OR EASEMENTS SHALL BE CONSIDERED AS PART OF THIS PROJECT.
- 13. PRIOR TO ANY DISCHARGE OF GROUND WATER (DEWATERING) FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT TO WATERS OF THE STATE (INCLUDING, BUT NOT LIMITED TO, WETLANDS, SWALES AND MUNICIPAL STORM SEWERS), THE CONTRACTOR SHALL TEST THE EFFLUENT (WATER TO BE DISCHARGED) IN ACCORDANCE WITH RULE 62-621.300(2), F.A.C. IF THE TEST RESULTS ON THE EFFLUENT ARE BELOW THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL SUBMIT A SUMMARY OF THE PROPOSED CONSTRUCTION ACTIVITY AND THE TEST RESULTS TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DISTRICT OFFICE, WITHIN ONE (1) WEEK AFTER DISCHARGE BEGINS. THE CONTRACTOR SHALL CONTINUE TO SAMPLE THE EFFLUENT AS REQUIRED THROUGHOUT THE PROJECT AND COMPLY WITH ALL CONDITIONS OF RULE 62-621.300(2), F.A.C. IF THE GROUND WATER EXCEEDS THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL COMPLY WITH OTHER APPLICABLE RULES AND REGULATIONS PRIOR TO DISCHARGE OF THE EFFLUENT (GROUND WATER) TO SURFACE WATERS OF THE STATE.
- 14. ALL SITEWORK NEAR EXISTING TREES MUST BE REVIEWED WITH ON-SITE CONTRACTOR AND OWNER'S ARBORIST PRIOR TO COMMENCEMENT (I.E... PRE-CONSTRUCTION MEETING).
- 15. FOR SPECIAL PAVING AND DRAINAGE DETAILS SEE DRAWING NO. 3 THRU 5. FOR ALL STANDARD DETAILS SEE CITY OF JACKSONVILLE STANDARD SPECIFICATIONS AND DETAILS, LATEST REVISION.

COJ STANDARD MAINTENANCE OF TRAFFIC NOTES:

- COLLECTOR OR ARTERIAL STREETS.
- NO LANE CLOSURES ARE ALLOWED FROM 7:00 AM TO 9:00 AM AND 4:00 PM TO 7:00 PM MONDAY THROUGH FRIDAY. THE CONTRACTOR SHALL CONFIRM THAT EXISTING SIGNAGE WILL NOT POSE A CONFLICT FOR WORK ZONE TRAFFIC CONTROL. THE
- OPERATIONS
- ANY MODIFICATIONS OF THIS MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED TO THE CITY OF JACKSONVILLE TRAFFIC ENGINEERING DIVISION FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
- INDEX 102-660
- THE ROADWAY SHALL BE RESTORED TO AT LEAST A LIMEROCK SURFACE BEFORE IT IS REOPENED TO TRAFFIC AND BEFORE THE CONTRACTOR MOVES TO THE NEXT CONSTRUCTION ZONE
- MAINTENANCE OF TRAFFIC PLANS WITHIN FDOT RIGHT-OF-WAY (NONE) ARE SUBJECT TO FDOT APPROVAL
- IF SIGNS ARE DAMAGED DURING CONSTRUCTION ACTIVITY. THE CONTRACTOR IS REQUIRED TO REPLACE THEM IMMEDIATELY IN ACCORDANCE WITH CURRENT CITY STANDARD SPECIFICATIONS.

PAVING AND DRAINAGE NOTES:

STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH CITY

REQUIREMENTS AND SHALL BE CONSTRUCTED TO CONFORM WITH

- CURBING, PROPERTY LINES AND LOW POINTS AS SHOWN ON THE PLANS CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AT TIME OF
- ACCEPTANCE. 18. ALL DRAINAGE STRUCTURES TO HAVE TRAFFIC BEARING GRATES.
- 19 ALL DRAINAGE PIPE JOINTS IN CITY DRAINAGE EASEMENTS AND DRAINAGE RIGHT-OF-WAYS ARE TO BE FILTER-WRAPPED.

16. ALL PIPE LENGTHS ARE SCALED DIMENSIONS. ALL DRAINAGE

- 20. ALL INVERTS IN DRAINAGE STRUCTURES TO BE PRECAST OR BRICK WITH LAYER OF MORTAR BETWEEN EACH LAYER OF BRICK, OR REDDI-MIX CONCRETE WITH #57 STONE.
- 21. THE CONTRACTOR SHALL PROVIDE HANDICAP RAMPS AT ALL SIDEWALK AND CURB CONNECTIONS. HANDICAP RAMPS SHALL MEET ALL APPLICABLE ADA REQUIREMENTS.
- 22. ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
- 23. IF DEWATERING CAPACITY REQUIRES A CONSUMPTIVE USE PERMIT (C.U.P.) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, THRESHOLD IS 1 MILLION GALLONS PER DAY.

WATER AND SEWER NOTES:

- PRIOR TO THE PLACEMENT OF THE LIMEROCK BASE COURSE, THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES. THIS SCHEDULE SHALL BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS-BUILT" DRAWINGS FOR THIS PROJECT.
- 2. ALL GRAVITY SEWER MAINS SHALL BE PVC SDR-26 FOR ALL DEPTHS. FORCE MAINS TO BE PVC DR 18 PIPE UNLESS OTHERWISE NOTED. 15 FEET MAX. DEPTH FOR MAINS WITHOUT SERVICES, 12 FEET MAX. W/SERVICES.
- SANITARY SEWER SERVICES SHALL BE 6" PVC WITH A MINIMUM SLOPE OF 0.01 FEET 3. PER FOOT AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 30" UNLESS OTHERWISE DETAILED OR RESTRICTED DUE TO DEPTH OF SEWER
- WATER LINES SHALL HAVE A MINIMUM OF 30" COVER UNDER UNPAVED AREAS AND 36" MINIMUM COVER FROM FINISHED GRADE UNDER PAVED AREAS UNLESS OTHERWISE SHOWN. ALL WATER MAINS SHALL BE FLUSHED IN ACCORDANCE WITH, AND UNDER THE DIRECTION OF JEA.
- WATER AND SEWER LINES ARE DESIGNATED TO FINISHED GRADES AND SHALL BE PROTECTED UNTIL FINISHED WORK IS COMPLETE.
- HORIZONTAL SEPARATION BETWEEN WATER MAINS, VALVES AND FITTINGS, STORM SEWERS AND SANITARY SEWERS SHALL BE A MINIMUM OF 10 FEET OR IN ACCORDANCE WITH THE JEA'S STANDARDS AND SPECIFICATIONS (LATEST EDITION).
- ALL WATER LINES CROSSING SANITARY SEWER LINES OR STORM SEWER, AS WELL AS 20. VALVES AND FITTINGS, MUST HAVE MINIMUM 18" VERTICAL SEPARATION. IF THIS CANNOT BE OBTAINED, THE WATER MAIN MUST BE CONSTRUCTED OF DUCTILE IRON PIPE FOR A DISTANCE OF 9' EITHER SIDE OF SEWER MAIN OR STORM SEWER. AS AN ALTERNATIVE, WATER MAIN SHALL BE CONSTRUCTED IN A D.I. SLEEVE FOR A DISTANCE OF 20' MIN. CENTERED AT CROSSING, WITH THE ENDS OF SLEEVE FILLED WITH GROUT. IN EITHER CASE, A MINIMUM OF 6" OF VERTICAL SEPARATION SHALL BE MAINTAINED. ALL DUCTILE IRON PIPE SHALL BE CLASS 50 OR HIGHER.
- MECHANICAL RESTRAINING JOINTS ARE REQUIRED IN ACCORDANCE WITH JEA STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS AND TEES.
- 9. UNLESS OTHERWISE NOTED, ALL OFF-SITE WATER MAINS TO BE PVC DR18, C-900 AND ALL ON-SITE WATER MAINS 4" AND GREATER SHALL BE DR25. C-900 AND ALL WATER MAINS 3" OR SMALLER SHALL BE POLY AND N.F.S. P.W. RATED.

• NOTIFY THE TRAFFIC ENGINEERING DIVISION (255-7533), A MINIMUM OF 5 WORKING DAYS PRIOR TO IMPLEMENTATION OF THE MOT. THE PROJECT WORK HOURS SHALL BE BETWEEN 7:00 AM AND 7:00 PM ON RESIDENTIAL STREETS AND 9:00 AM AND 4:00 PM ON

- CONTRACTOR SHALL COVER OR REMOVE ALL SIGNAGE IN CONFLICT WITH THE TRAFFIC CONTROL DURING CONSTRUCTION
- · ACCESS TO SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- THE CITY OF JACKSONVILLE PROHIBITS MID-BLOCK CROSSINGS OF PEDESTRIANS. WHEN AN ALTERNATE PAVED PEDESTRIAN ROUTE IS NOT FEASIBLE, THE CONTRACTOR SHALL MAINTAIN A 4 FT. WIDE STABLE PEDESTRIAN PATHWAY IN ACCORDANCE WITH FDOT

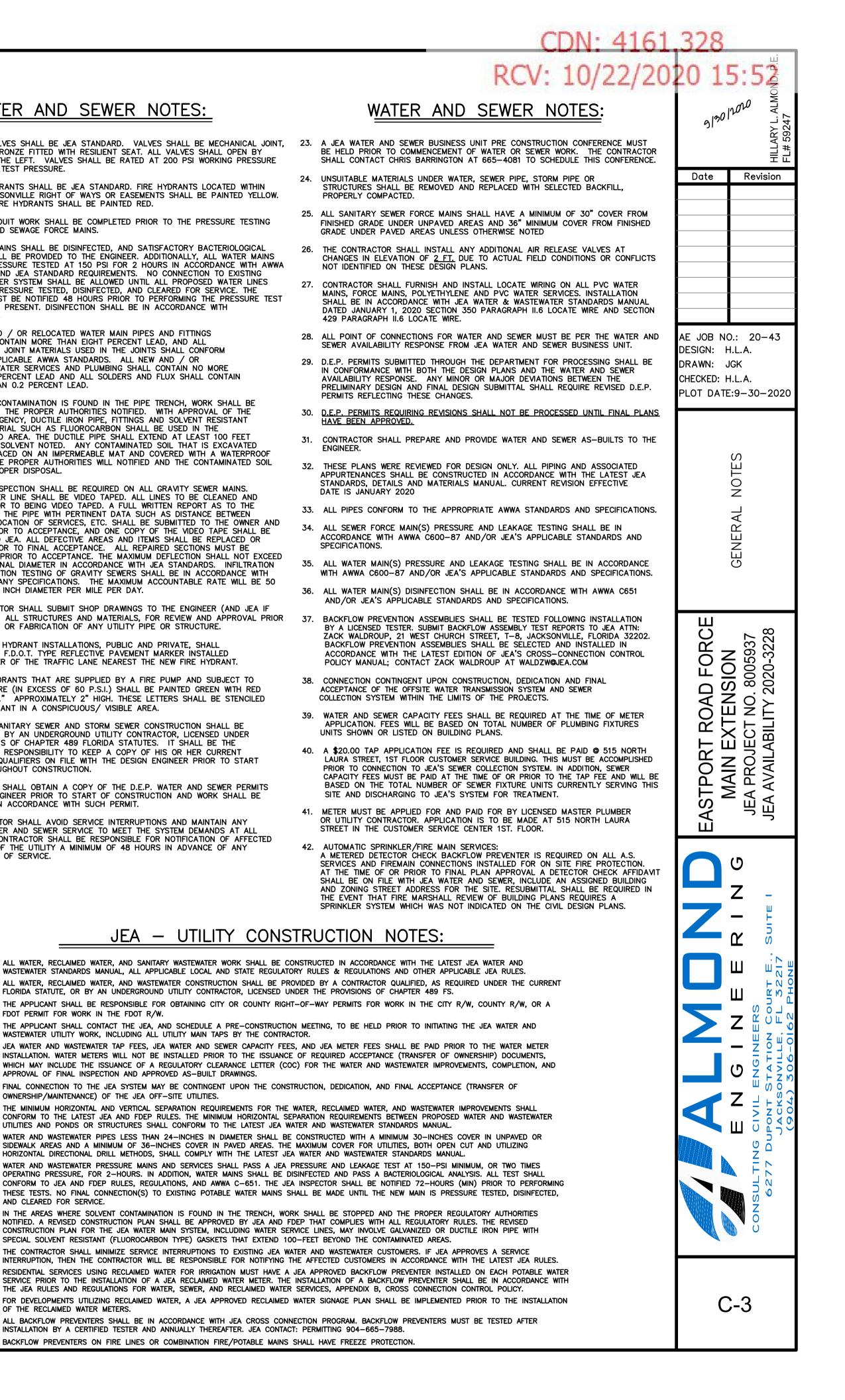
WATER AND SEWER NOTES:

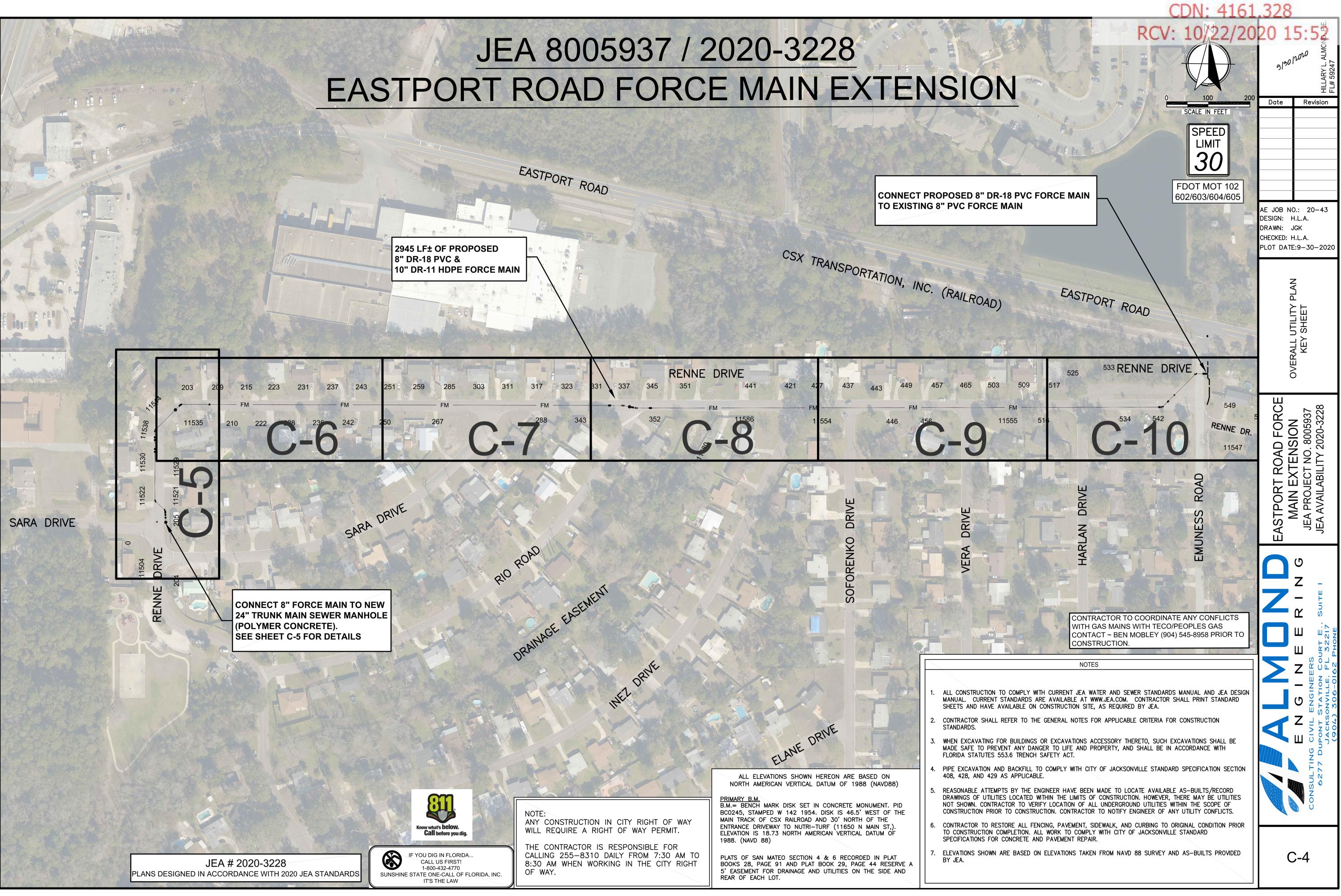
- 10. ALL GATE VALVES SHALL BE JEA STANDARD. VALVES SHALL BE MECHANICAL JOINT, 23. A JEA WATER AND SEWER BUSINESS UNIT PRE CONSTRUCTION CONFERENCE MUST CAST IRON. BRONZE FITTED WITH RESILIENT SEAT. ALL VALVES SHALL OPEN BY TURNING TO THE LEFT. VALVES SHALL BE RATED AT 200 PSI WORKING PRESSURE AND 400 PSI TEST PRESSURE.
- 11. ALL FIRE HYDRANTS SHALL BE JEA STANDARD. FIRE HYDRANTS LOCATED WITHIN CITY OF JACKSONVILLE RIGHT OF WAYS OR EASEMENTS SHALL BE PAINTED YELLOW. ALL OTHER FIRE HYDRANTS SHALL BE PAINTED RED.
- 12. ALL JEA CONDUIT WORK SHALL BE COMPLETED PRIOR TO THE PRESSURE TESTING OF WATER AND SEWAGE FORCE MAINS.
- 13. ALL WATER MAINS SHALL BE DISINFECTED, AND SATISFACTORY BACTERIOLOGICAL RESULTS SHALL BE PROVIDED TO THE ENGINEER. ADDITIONALLY, ALL WATER MAINS SHALL BE PRESSURE TESTED AT 150 PSI FOR 2 HOURS IN ACCORDANCE WITH AWWA STANDARDS AND JEA STANDARD REQUIREMENTS. NO CONNECTION TO EXISTING POTABLE WATER SYSTEM SHALL BE ALLOWED UNTIL ALL PROPOSED WATER LINES HAVE BEEN PRESSURE TESTED, DISINFECTED, AND CLEARED FOR SERVICE. THE ENGINEER MUST BE NOTIFIED 48 HOURS PRIOR TO PERFORMING THE PRESSURE TEST AND MUST BE PRESENT. DISINFECTION SHALL BE IN ACCORDANCE WITH AWWA-6-651.
- 14. ALL NEW AND / OR RELOCATED WATER MAIN PIPES AND FITTINGS SHALL NOT CONTAIN MORE THAN EIGHT PERCENT LEAD, AND ALL PACKING AND JOINT MATERIALS USED IN THE JOINTS SHALL CONFORM WITH ALL APPLICABLE AWWA STANDARDS. ALL NEW AND / OR RELOCATED WATER SERVICES AND PLUMBING SHALL CONTAIN NO MORE THAN EIGHT PERCENT LEAD AND ALL SOLDERS AND FLUX SHALL CONTAIN NO MORE THAN 0.2 PERCENT LEAD.
- 15. 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 SUCH AS FLUOROCARBON SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED. ANY CONTAMINATED SOIL THAT IS EXCAVATED SHALL BE PLACED ON AN IMPERMEABLE MAT AND COVERED WITH A WATERPROOF COVERING. THE PROPER AUTHORITIES WILL NOTIFIED AND THE CONTAMINATED SOIL HELD FOR PROPER DISPOSAL.
- 16. TELEVISION INSPECTION SHALL BE REQUIRED ON ALL GRAVITY SEWER MAINS. GRAVITY SEWER LINE SHALL BE VIDEO TAPED. ALL LINES TO BE CLEANED AND FLUSHED PRIOR TO BEING VIDEO TAPED. A FULL WRITTEN REPORT AS TO THE CONDITION OF THE PIPE WITH PERTINENT DATA SUCH AS DISTANCE BETWEEN MANHOLES, LOCATION OF SERVICES, ETC. SHALL BE SUBMITTED TO THE OWNER AND ENGINEER PRIOR TO ACCEPTANCE, AND ONE COPY OF THE VIDEO TAPE SHALL BE SUBMITTED TO JEA. ALL DEFECTIVE AREAS AND ITEMS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE. ALL REPAIRED SECTIONS MUST BE REINSPECTED PRIOR TO ACCEPTANCE. THE MAXIMUM DEFLECTION SHALL NOT EXCEED 7.5% OF NOMINAL DIAMETER IN ACCORDANCE WITH JEA STANDARDS. INFILTRATION AND EXFILTRATION TESTING OF GRAVITY SEWERS SHALL BE IN ACCORDANCE WITH UTILITY COMPANY SPECIFICATIONS. THE MAXIMUM ACCOUNTABLE RATE WILL BE 50 GALLONS PER INCH DIAMETER PER MILE PER DAY.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER (AND JEA IF 17. REQUIRED) ON ALL STRUCTURES AND MATERIALS, FOR REVIEW AND APPROVAL PRIOR TO PURCHASE OR FABRICATION OF ANY UTILITY PIPE OR STRUCTURE.
- 18. ALL NEW FIRE HYDRANT INSTALLATIONS, PUBLIC AND PRIVATE, SHALL HAVE A BLUE F.D.O.T. TYPE REFLECTIVE PAVEMENT MARKER INSTALLED IN THE CENTER OF THE TRAFFIC LANE NEAREST THE NEW FIRE HYDRANT.
- ALL FIRE HYDRANTS THAT ARE SUPPLIED BY A FIRE PUMP AND SUBJECT TO 19. HIGH PRESSURE (IN EXCESS OF 60 P.S.I.) SHALL BE PAINTED GREEN WITH RED LETTERS "H.P." APPROXIMATELY 2" HIGH. THESE LETTERS SHALL BE STENCILED ON THE HYDRANT IN A CONSPICUOUS/ VISIBLE AREA.
- ALL WATER. SANITARY SEWER AND STORM SEWER CONSTRUCTION SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR, LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP A COPY OF HIS OR HER CURRENT LICENSE AND QUALIFIERS ON FILE WITH THE DESIGN ENGINEER PRIOR TO START OF AND THROUGHOUT CONSTRUCTION.
- 21. CONTRACTOR SHALL OBTAIN A COPY OF THE D.E.P. WATER AND SEWER PERMITS FROM THE ENGINEER PRIOR TO START OF CONSTRUCTION AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH SUCH PERMIT.
- 22. THE CONTRACTOR SHALL AVOID SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER AND SEWER SERVICE TO MEET THE SYSTEM DEMANDS AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED CUSTOMERS OF THE UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE.

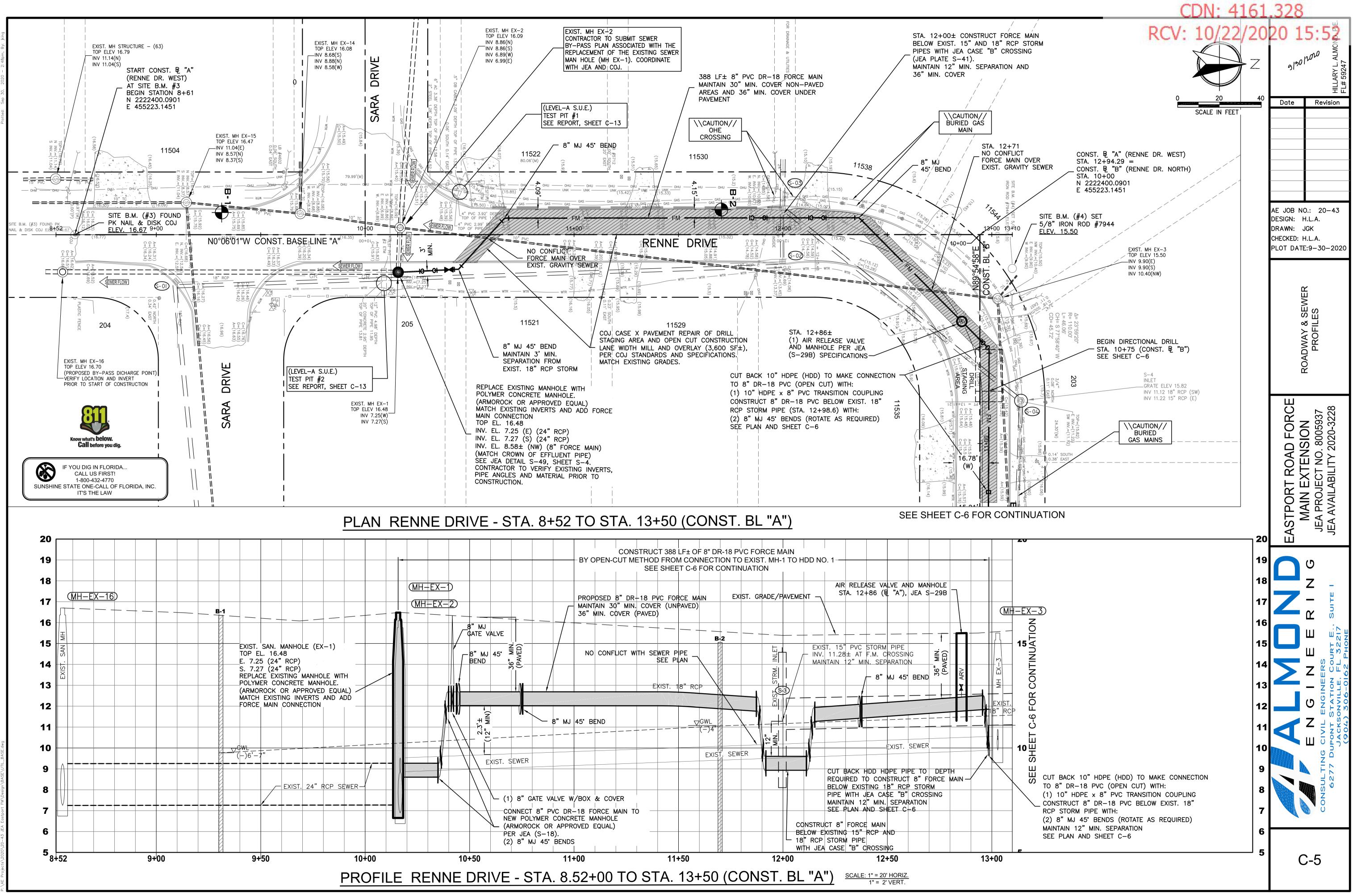
JEA - UTILITY CONSTRUCTION NOTES:

37.

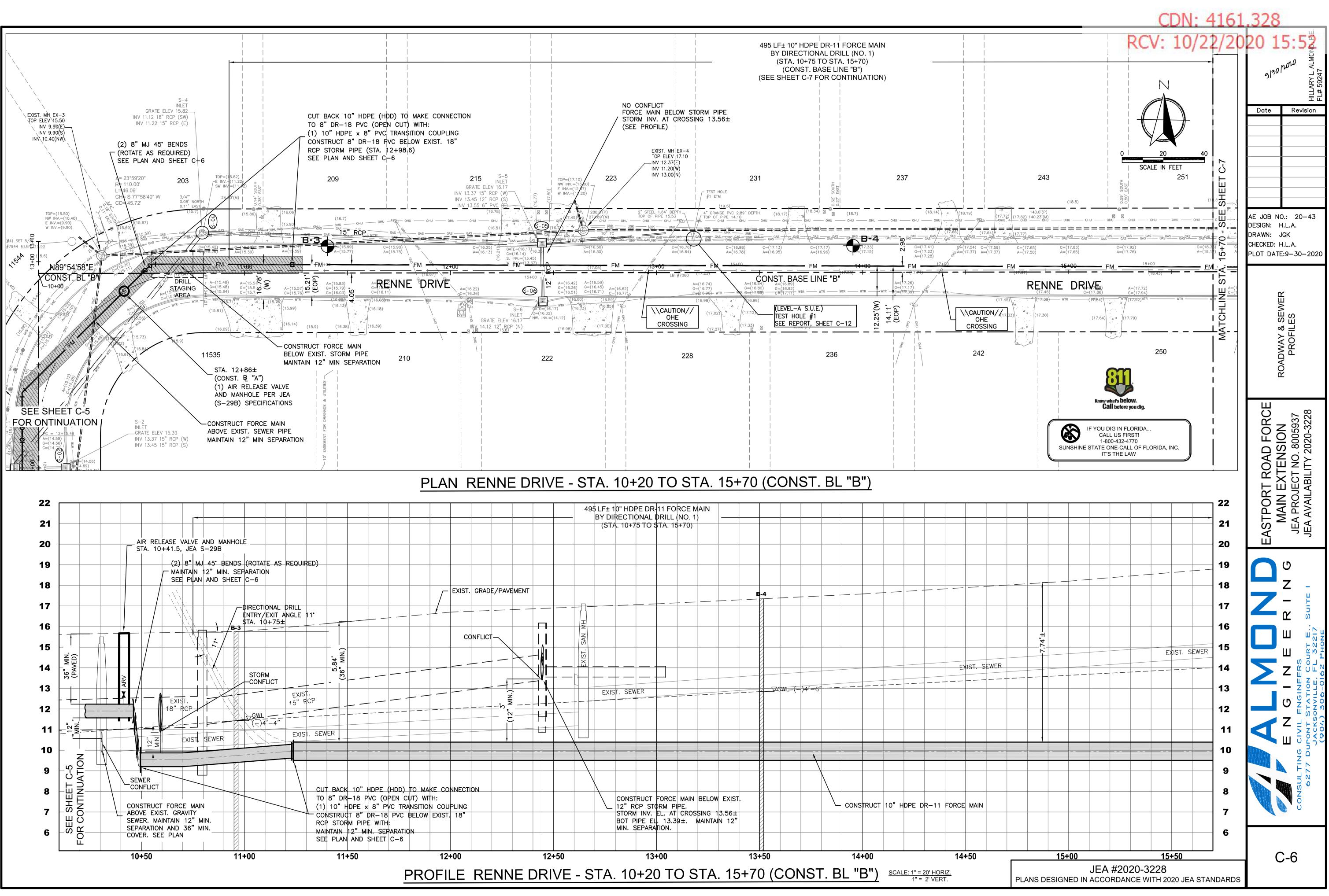
- 1. ALL WATER, RECLAIMED WATER, AND SANITARY WASTEWATER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST JEA WATER AND
- 2. ALL WATER, RECLAIMED WATER, AND WASTEWATER CONSTRUCTION SHALL BE PROVIDED BY A CONTRACTOR QUALIFIED, AS REQUIRED UNDER THE CURRENT FLORIDA STATUTE, OR BY AN UNDERGROUND UTILITY CONTRACTOR, LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FS.
- 3. THE APPLICANT SHALL BE RESPONSIBLE FOR OBTAINING CITY OR COUNTY RIGHT-OF-WAY PERMITS FOR WORK IN THE CITY R/W. COUNTY R/W. OR A FDOT PERMIT FOR WORK IN THE FDOT R/W.
- 4. THE APPLICANT SHALL CONTACT THE JEA, AND SCHEDULE A PRE-CONSTRUCTION MEETING, TO BE HELD PRIOR TO INITIATING THE JEA WATER AND WASTEWATER UTILITY WORK, INCLUDING ALL UTILITY MAIN TAPS BY THE CONTRACTOR.
- 5. JEA WATER AND WASTEWATER TAP FEES, JEA WATER AND SEWER CAPACITY FEES, AND JEA METER FEES SHALL BE PAID PRIOR TO THE WATER METER INSTALLATION. WATER METERS WILL NOT BE INSTALLED PRIOR TO THE ISSUANCE OF REQUIRED ACCEPTANCE (TRANSFER OF OWNERSHIP) DOCUMENTS, WHICH MAY INCLUDE THE ISSUANCE OF A REGULATORY CLEARANCE LETTER (COC) FOR THE WATER AND WASTEWATER IMPROVEMENTS, COMPLETION, AND APPROVAL OF FINAL INSPECTION AND APPROVED AS-BUILT DRAWINGS.
- 6. FINAL CONNECTION TO THE JEA SYSTEM MAY BE CONTINGENT UPON THE CONSTRUCTION, DEDICATION, AND FINAL ACCEPTANCE (TRANSFER OF OWNERSHIP/MAINTENANCE) OF THE JEA OFF-SITE UTILITIES.
- 7. THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS FOR THE WATER, RECLAIMED WATER, AND WASTEWATER IMPROVEMENTS SHALL CONFORM TO THE LATEST JEA AND FDEP RULES. THE MINIMUM HORIZONTAL SEPARATION REQUIREMENTS BETWEEN PROPOSED WATER AND WASTEWATER UTILITIES AND PONDS OR STRUCTURES SHALL CONFORM TO THE LATEST JEA WATER AND WASTEWATER STANDARDS MANUAL.
- 8. WATER AND WASTEWATER PIPES LESS THAN 24-INCHES IN DIAMETER SHALL BE CONSTRUCTED WITH A MINIMUM 30-INCHES COVER IN UNPAVED OR SIDEWALK AREAS AND A MINIMUM OF 36-INCHES COVER IN PAVED AREAS. THE MAXIMUM COVER FOR UTILITIES, BOTH OPEN CUT AND UTILIZING HORIZONTAL DIRECTIONAL DRILL METHODS, SHALL COMPLY WITH THE LATEST JEA WATER AND WASTEWATER STANDARDS MANUAL.
- 9. WATER AND WASTEWATER PRESSURE MAINS AND SERVICES SHALL PASS A JEA PRESSURE AND LEAKAGE TEST AT 150-PSI MINIMUM, OR TWO TIMES OPERATING PRESSURE, FOR 2-HOURS. IN ADDITION, WATER MAINS SHALL BE DISINFECTED AND PASS A BACTERIOLOGICAL ANALYSIS. ALL TEST SHALL CONFORM TO JEA AND FDEP RULES, REGULATIONS, AND AWWA C-651. THE JEA INSPECTOR SHALL BE NOTIFIED 72-HOURS (MIN) PRIOR TO PERFORMING THESE TESTS. NO FINAL CONNECTION(S) TO EXISTING POTABLE WATER MAINS SHALL BE MADE UNTIL THE NEW MAIN IS PRESSURE TESTED, DISINFECTED, AND CLEARED FOR SERVICE.
- 10. IN THE AREAS WHERE SOLVENT CONTAMINATION IS FOUND IN THE TRENCH, WORK SHALL BE STOPPED AND THE PROPER REGULATORY AUTHORITIES NOTIFIED. A REVISED CONSTRUCTION PLAN SHALL BE APPROVED BY JEA AND FDEP THAT COMPLIES WITH ALL REGULATORY RULES. THE REVISED CONSTRUCTION PLAN FOR THE JEA WATER MAIN SYSTEM, INCLUDING WATER SERVICE LINES, MAY INVOLVE GALVANIZED OR DUCTILE IRON PIPE WITH SPECIAL SOLVENT RESISTANT (FLUOROCARBON TYPE) GASKETS THAT EXTEND 100-FEET BEYOND THE CONTAMINATED AREAS.
- 11. THE CONTRACTOR SHALL MINIMIZE SERVICE INTERRUPTIONS TO EXISTING JEA WATER AND WASTEWATER CUSTOMERS. IF JEA APPROVES A SERVICE INTERRUPTION, THEN THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE AFFECTED CUSTOMERS IN ACCORDANCE WITH THE LATEST JEA RULES.
- 12. RESIDENTIAL SERVICES USING RECLAIMED WATER FOR IRRIGATION MUST HAVE A JEA APPROVED BACKFLOW PREVENTER INSTALLED ON EACH POTABLE WATER SERVICE PRIOR TO THE INSTALLATION OF A JEA RECLAIMED WATER METER. THE INSTALLATION OF A BACKFLOW PREVENTER SHALL BE IN ACCORDANCE WITH
- 13. FOR DEVELOPMENTS UTILIZING RECLAIMED WATER, A JEA APPROVED RECLAIMED WATER SIGNAGE PLAN SHALL BE IMPLEMENTED PRIOR TO THE INSTALLATION OF THE RECLAIMED WATER METERS.
- 14. ALL BACKFLOW PREVENTERS SHALL BE IN ACCORDANCE WITH JEA CROSS CONNECTION PROGRAM. BACKFLOW PREVENTERS MUST BE TESTED AFTER INSTALLATION BY A CERTIFIED TESTER AND ANNUALLY THEREAFTER. JEA CONTACT: PERMITTING 904-665-7988.
- 15. BACKFLOW PREVENTERS ON FIRE LINES OR COMBINATION FIRE/POTABLE MAINS SHALL HAVE FREEZE PROTECTION.

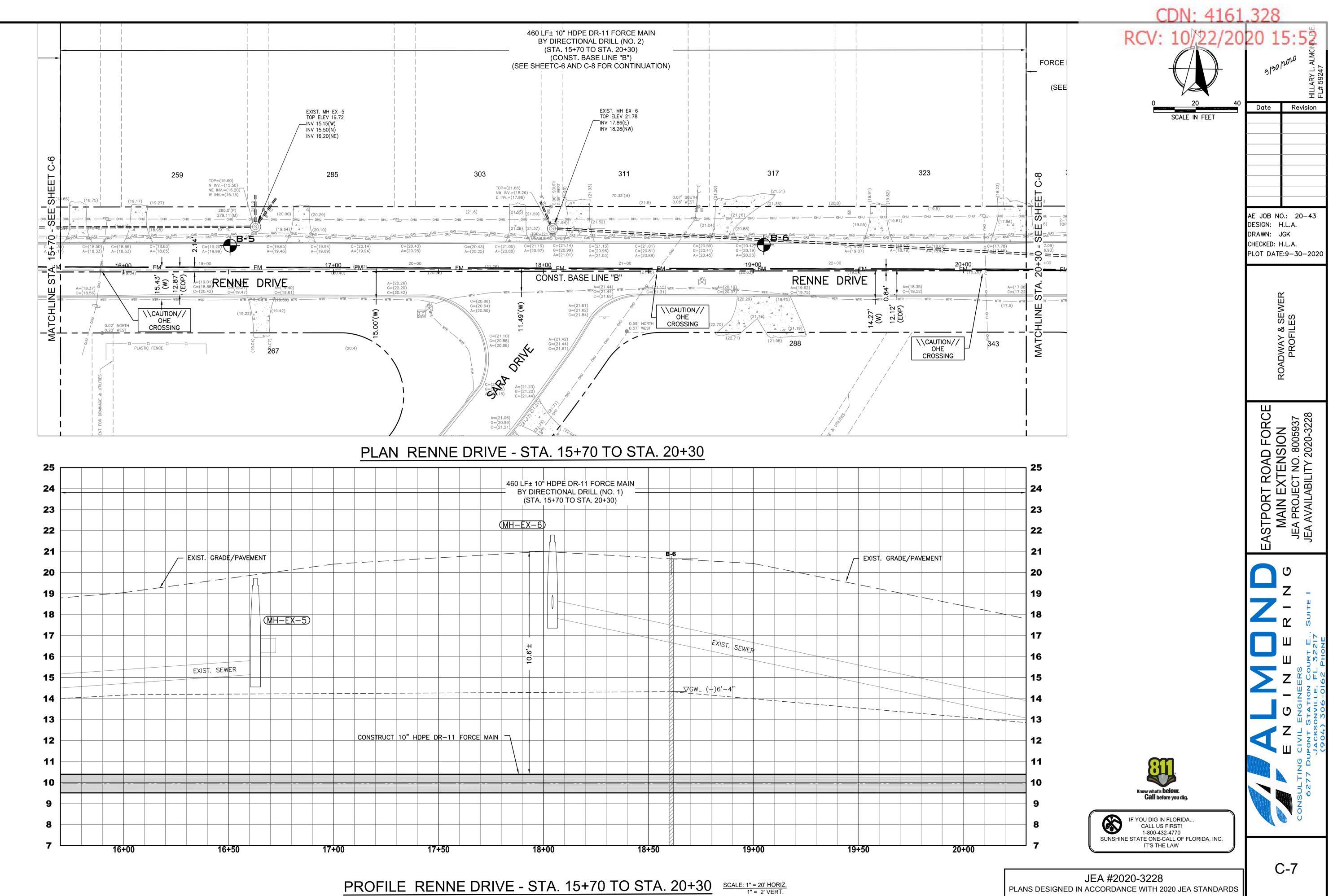




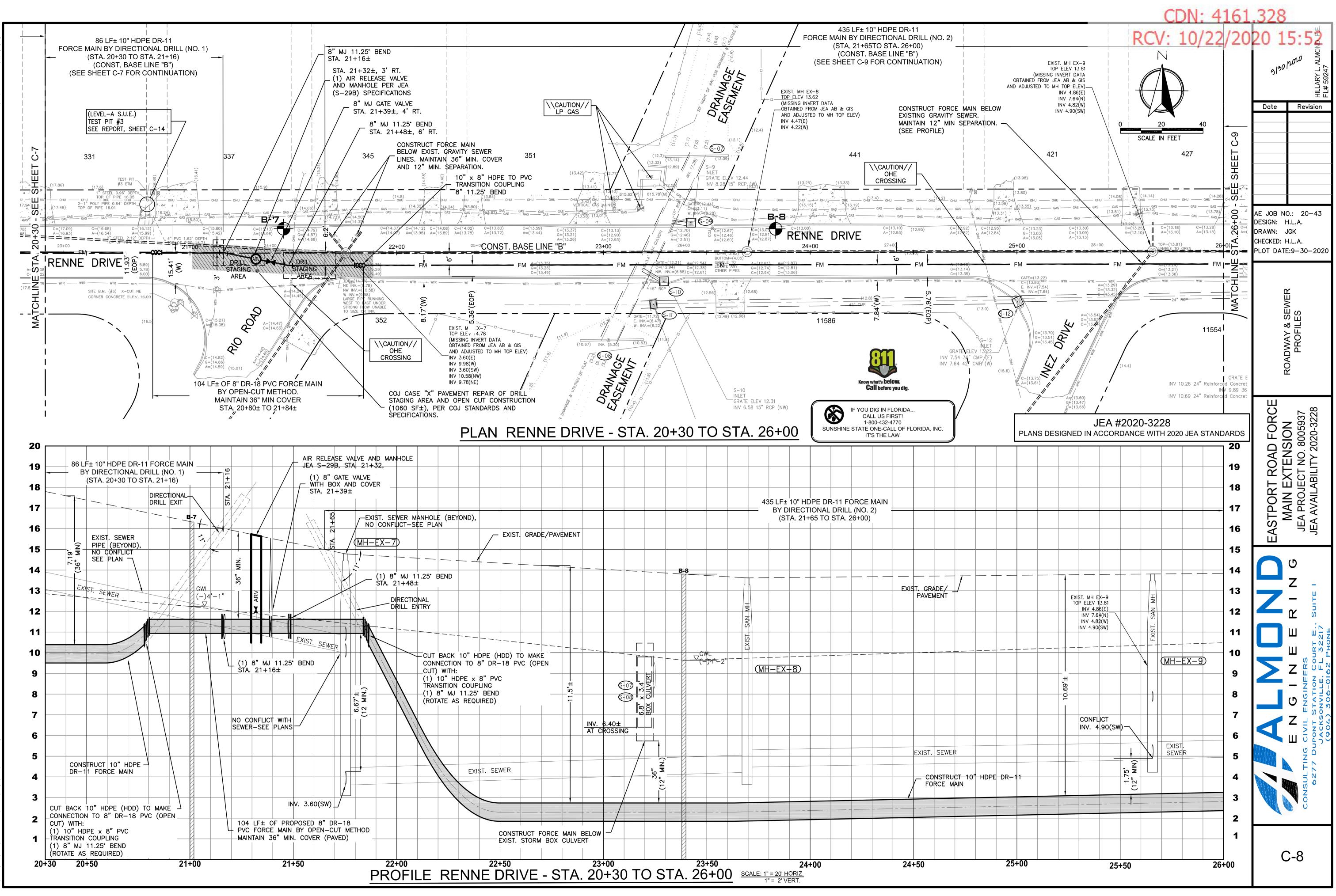


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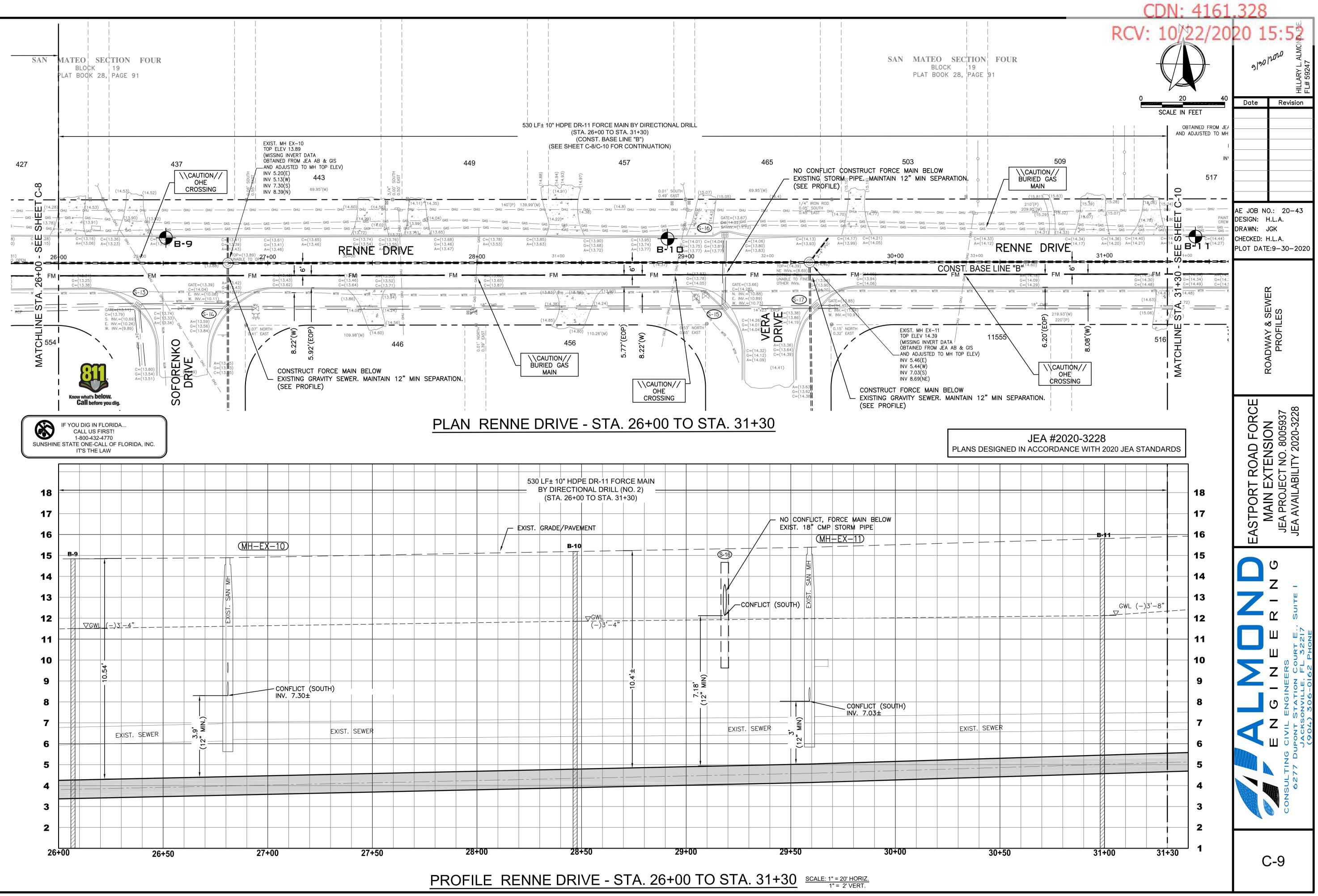




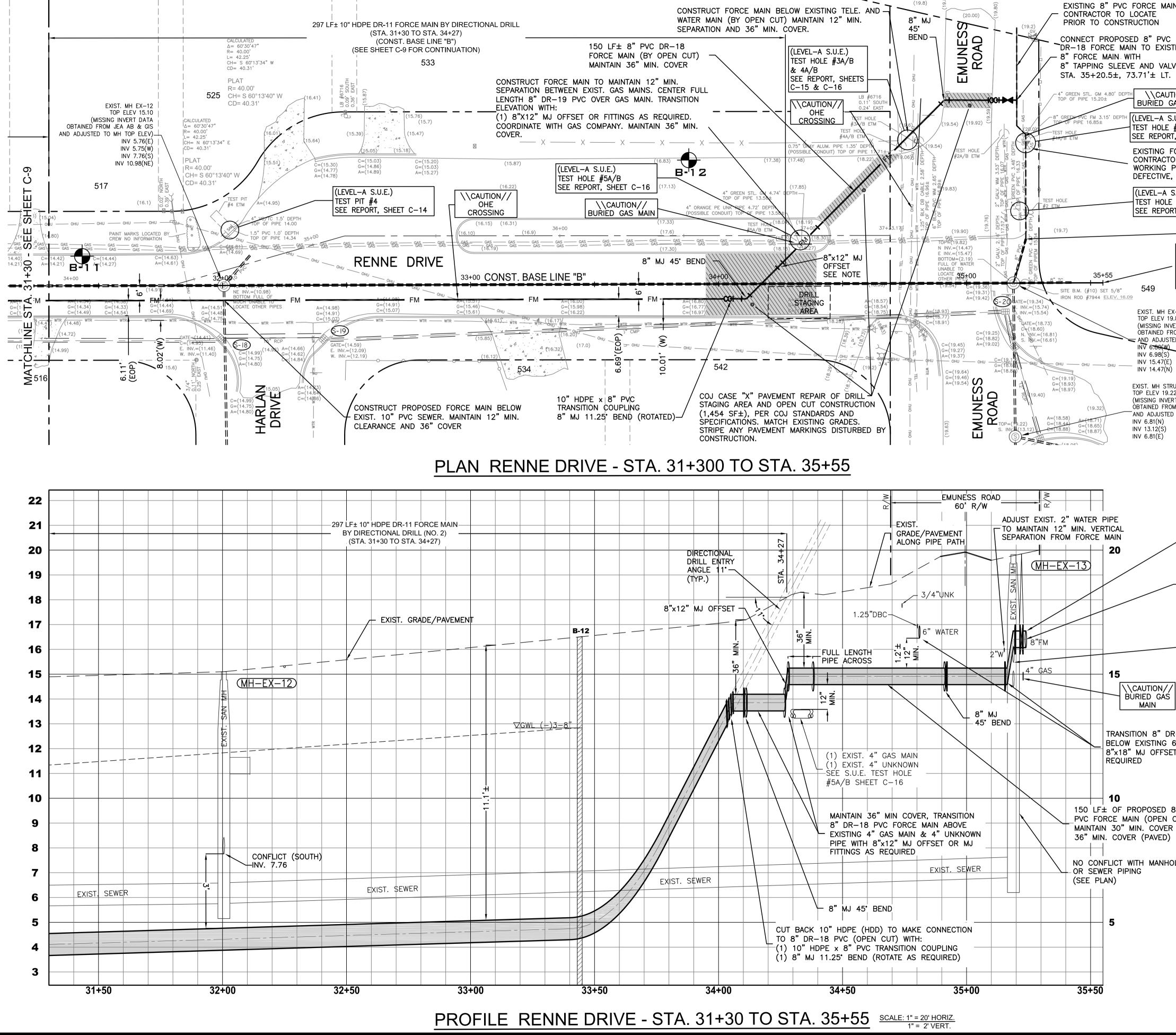
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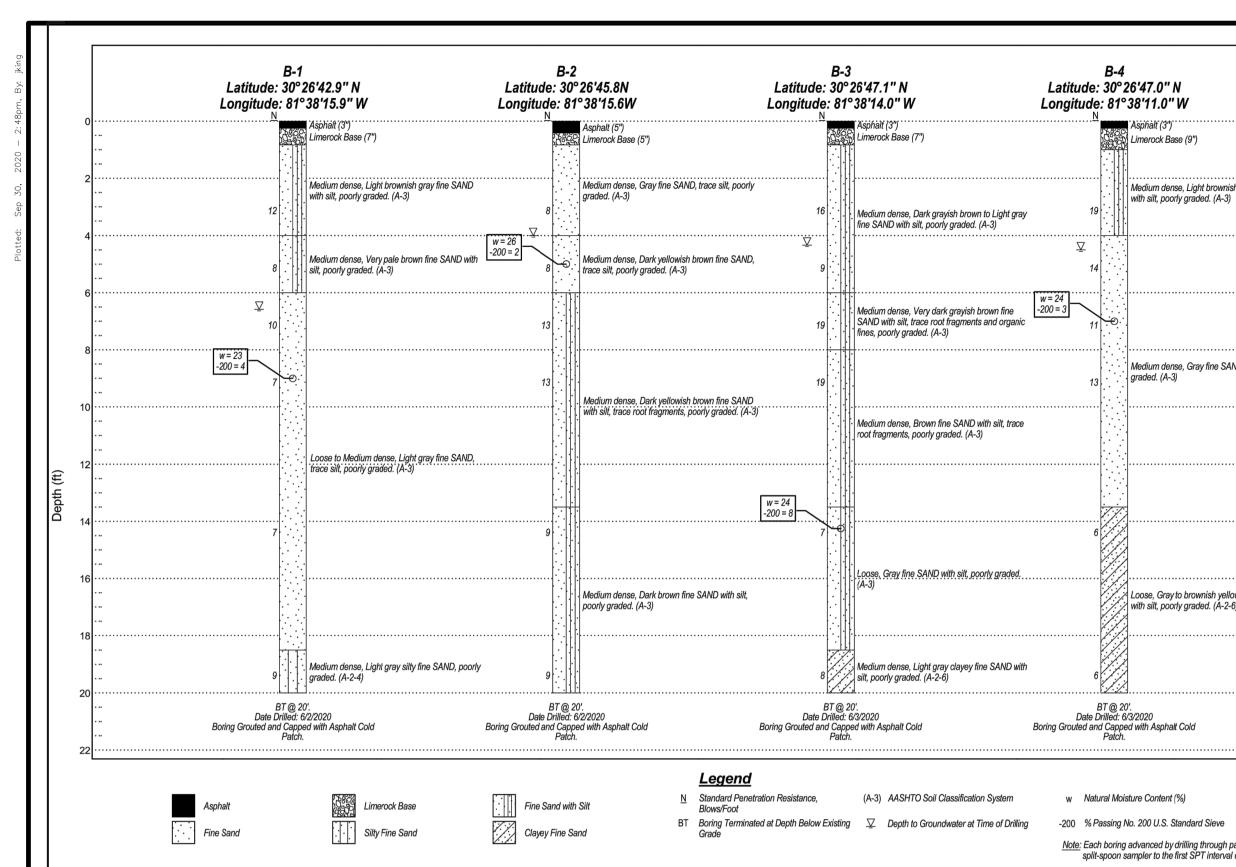






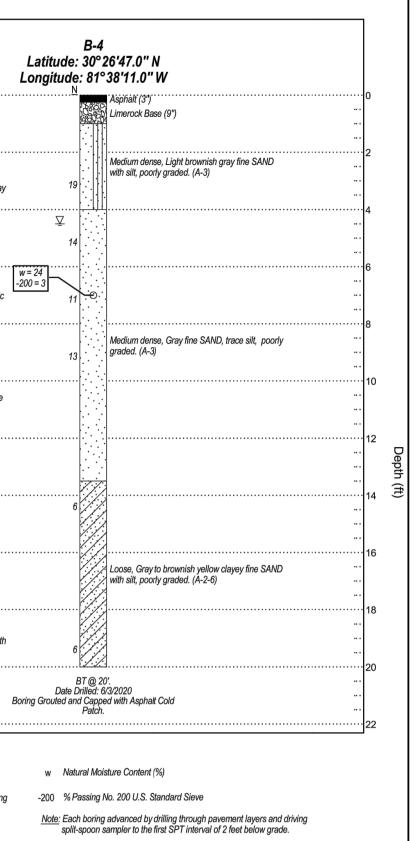
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CONTRACTOR TO AVER 10/22/20 CSX TRANSPORT	20 15:52 02
CSX TRANSPORTATION, INC.	MILLARY L FL# 5924
AS MAIN SCALE IN FEET	Date Revision
#1A/B & #2A/B , SHEET C-15 ORCE MAIN VALVE (TO REMAIN) OR TO VERIFY THAT VALVE IS PROPERLY. REPLACE IF PER JEA SPECIFICATIONS.	
JU.E.) #2 T, SHEET C-12 EXISTING FORCE MAIN CONNECTION TO MANHOLE AND EXISTING VALVE TO REMAIN. VALVE TO BE CLOSED AFTER COMPLETION AND ACCEPTANCE OF THE PROPOSED 8" FORCE MAIN EXTENSION. FORCE MAIN EXTENSION.	AE JOB NO.: 20–43 DESIGN: H.L.A. DRAWN: JGK CHECKED: H.L.A. PLOT DATE:9–30–2020
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EXISTING FORCE MAIN CONNECTION TO MANHOLE AND EXISTING VALVE TO REMAIN. - VALVE TO BE CLOSED AFTER COMPLETION AND ACCEPTANCE OF THE PROPOSED 8" FORCE MAIN EXTENSION. (SEE PLAN)	R I N G Sute I
9–18 PVC FORCE MAIN 9" WATER MAIN WITH 17 OR MJ FITTINGS AS	I N E E INEERS INE COURT E., LLE, FL 32217 5-0162 PHONE
3" DR—18 CUT) (UNPAVED) LE	E N G UPONT STAT JACKSONVII (904) 306
Know what's below. Call before you dig. IF YOU DIG IN FLORIDA CALL US FIRST!	CONSULTING 6277 Di
JEA #2020-3228 PLANS DESIGNED IN ACCORDANCE WITH 2020 JEA STANDARDS	C-10
I LANG DEGIGINED IN ACCORDANCE WITH 2020 JEA STANDARDS	



REVISIONS P. RODNEY MANK, P.E. P.E. NO.: 41986 Almond Engineering Generalized Soil Profiles DESCRIPTION DESCRIPTION DATE BY MAE MAE PROJECT NO. DATE: Meskel & Associates Engineering FL Registry No. 28142 3728 Philips Highway, Suite 208, Jacksonville, FL 322 JEA Eastport Road Force Main 7/1/2020 0021-0007

DATE BY



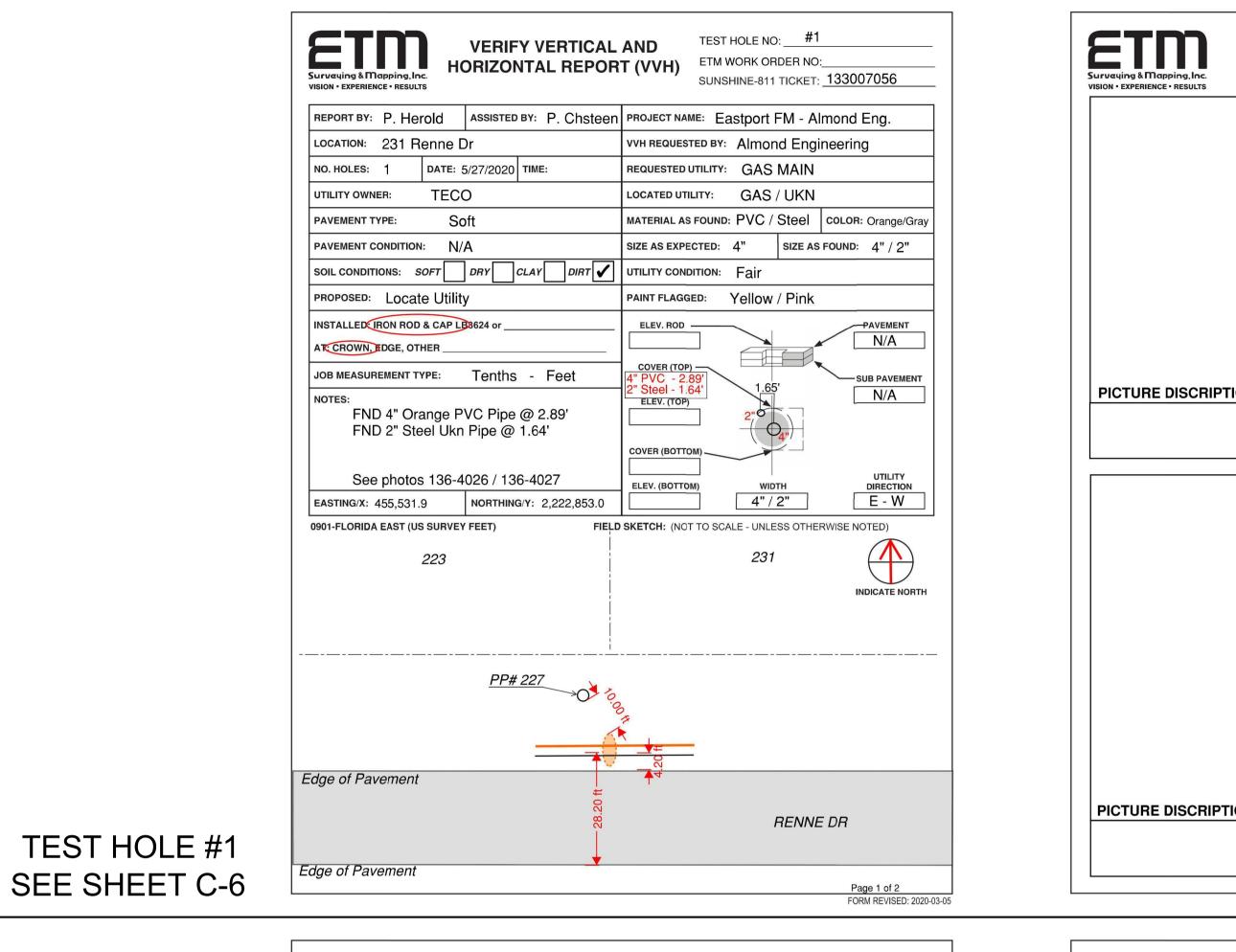
Jacksonville, FL

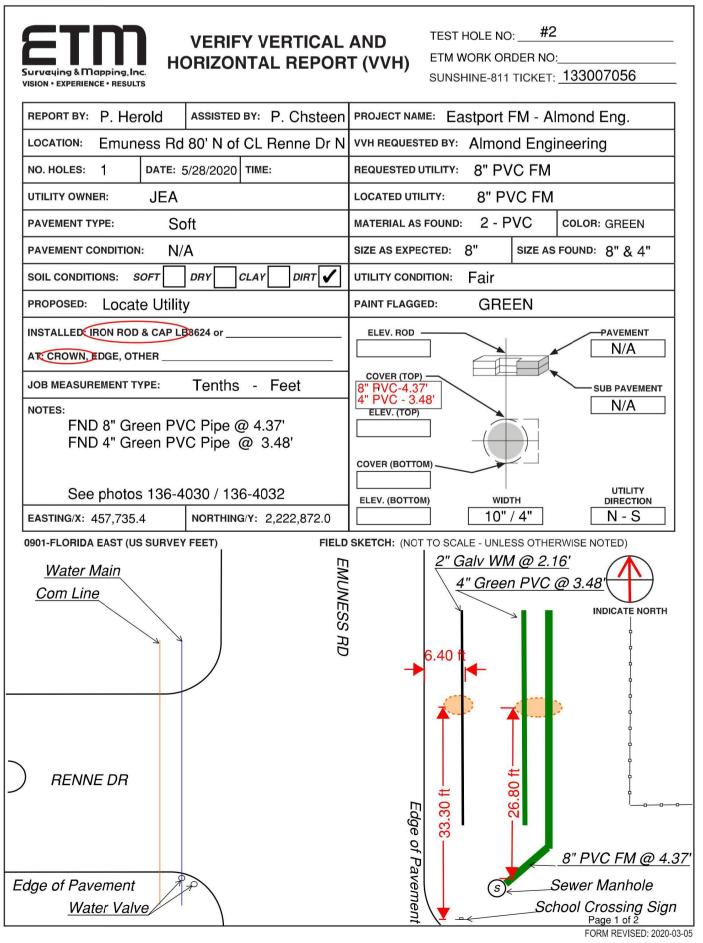
FIGURE NO.

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				CDN: 4	161,328
	Latitude: 30°26'47.2" N Latitude: Longitude: 81°38'8.1" W Longitude		B-7 .atitude: 30° 26'47.1" N ongitude: 81° 38'2.4" W	RCV: 10/22 Latitude: 30° 26'47.0" N Longitude: 81° 38'0.0" W N Asphalt (4") Limerock Base (6") Light brownish gray fine SAND with silt, poorly graded. (A-3)	/2020 15:52
:		Aprila (3) Crushed Concrete and Cemented Sand (3") Light yellowish brown fine SAND with silt, trace gravel, poorly graded. (A-3) Loose, Very pale brown fine SAND with silt, poorly graded. (A-3)	Asphalt (4") Limerock Base (7") Medium dense, Pale brown fine SAND with poorly graded. (A-3)	h silt,	
4	19 Medium dense, Light brownish gray fine SAND 7 8 8	Graded: (A-3) Graded: (A-3) Medium dense, Pale brown fine SAND with silt, porty graded. (A-3)	5	$10 \begin{array}{ c c } \hline 10 \\ \hline \\ $	Date Revision
ŧ	 	Medium dense, Gray fine SAND with silt, poorly graded. (A-3)	5	13 13 Medium dense, Grayish brown fine SAND, trace 16 16 16 17 13 13 13 13 13 13 13 13 13 13	
1(Loose, Grayish brown fine SAND with silt, j	poorly	AE JOB NO.: 20-43
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16			Medium dense, Pale brown clayey fine SA silt, poorly graded. (A-2-6)	ND with	
20	Loose, Gray to brownish yellow silty fine SAND, poorly graded. (A-2-4) BT @ 20'. B Date Drilled: 6/3/2020 Date Drilled: 6/3/2020 Date Drilled: 6/3/2020 Boring Grouted and Capped with Asphalt Cold Boring Grouted and Capped with Asphalt Cold Boring Grouted and Capped with Asphalt Cold	HII Medium dense, Dark grayish brown silty fine SAND, poorly graded. (A-2-4) Sand control (A-2-4) Capped with Asphalt Cold Boring	9 BT @ 20'. Date Drilled: 6/3/2020 g Grouted and Capped with Asphalt Cold	11 BT @ 20'. Date Drilled: 6/4/2020 Boring Grouted and Capped with Asphalt Cold	BORING
2:		Patch. Patch. Legend with Silt N Standard Penetration F Blows/Foot	Patch. Resistance, (A-3) AASHTO Soil Classification Syste	Patch. om w Natural Moisture Content (%)	
DATE	Silty Fine Sand Crushed Concrete Clayey F Fine Sand Fine Sand Clayey F	B1 Boring Terminated at D Grade P. RODNEY MANK, P.E. P.E. NO.: 41986	Pepth Below Existing	Drilling -200 % Passing No. 200 U.S. Standard Sieve <u>Note</u> : Each boring advanced by drilling through pavement layers and driving split-spoon sampler to the first SPT interval of 2 feet below grade. SHEET TITLE: Generalized Soil Profiles	CE 28 GEO
		Meskel & Associates Engineering FL. Registry No. 28142 3728 Philips Highway, Suite 208, Jackscrville, FL 32207	DATE: MAE PROJECT NO. 7/1/2020 0021-0007	JEA Eastport Road Force Main Jacksonville, FL	D FORC FIGNU 8005937 2020-3222
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(Latitude: 30°26'47.0" N Latitude: Longitude: 81°37'57.3" W Longitude:		B-11 atitude: 30° 26'46.9" N ongitude: 81° 37'51.2" W N N Asphalt (3") Limerock Base (6")	B-12 Latitude: 30° 26'46.6" N Longitude: 81° 37'49.0" W Asphalt (3") Limerock Base (6")	MAIN EA PRO.
:		Gray fine SAND with silt, poorly graded. (A-3)	$\begin{array}{c c} \hline & & & \\ \hline \\ \hline$	graded.	
		Hedium dense, Light brownish gray fine SAND With silt, poorly graded. (A-3)	Medium dense, Gray fine SAND, trace silt,	poorly	
1			13	15 . Medium dense, Light gray fine SAND with silt, 11 . 	
1(11)	Image: Solution of the sector of the sect	Hedium dense, Light gray fine SAND with silt, Doorly graded. (A-3)	Medium dense, Light gray fine SAND with poorly graded. (A-3)		
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10			Medium dense, Light brownish gray fine Su with silt, poorly graded. (A-3)		
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2.	Asphalt Limerock Base Fine Sand	nd with Silt M Standard Penetration F Blows/Foot BT Boring Terminated at D Grade		Drilling -200 % Passing No. 200 U.S. Standard Sieve	
DATE	REVISIONS BY DESCRIPTION DATE BY DESCRIPTION	P. RODNEY MANK, P.E. P.E. NO.: 41986	Almond Engineering	Note: Borings B-10, B-11 & B-12 advanced by drilling through pavement layers and driving split-spoon sampler to the first SPT interval of 2 feet below grade. SHEETTITLE: Generalized Soil Profiles PROJECT NAME: JEA Eastnort Road Earco Main	C-11
		Meskel & Associates Engineering FL. Registry No. 28142 3728 Philips Hichway, Suite 208, Jacksonville, FL 32207	7/1/2020 0021-0007	JEA Eastport Road Force Main Jacksonville, FL	5

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		B-5 Latitude: 30°26'47 Longitude: 81°38'8 <u>№</u>	'8.1" W Longitude: 8 <u>№</u>	0° 26'47.1" N Latitude 81° 38'5.5" W Longitude	le: 81°38'2.4" W Lo	Asphalt (4") Asphalt (4") Light brownish gray fine SAND with silt, poorty graded. (A-3)	2020 15:52	
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			lium dense, Light brownish gray fine SAND 7	Loose, Very pale brown fine SAND with silt, poorly graded. (A-3)	Image: Medium dense, Pale brown fine SAND with silt, Image: Medium	10 . Nedium dense, Dark gray fine SAND with silt, few root fragments, trace gravel (rock fragments), poorly graded. (A-3)	Date Revisio	
	4		8	 Medium dense, Pale brown fine SAND with silt, poorly graded. (A-3) 	w = 2 -200 =	$29 \qquad \qquad$	···· 4 ··· · · · · · · · · · · · · · · ·	
	6		lium dense, Light gray fine SAND with silt, fy graded. (A-3)	Medium dense, Gray fine SAND with silt, poorly graded. (A-3)	Loose, Light brownish gray fine SAND with silt. Trace gravel (rock fragments), poorly graded. (A-3) Society of the second	13		
	8		9 			Medium dense, Grayish brown fine SAND, trace 16 	8 	
	10		lium dense, Light yellowish brown fine SAND silt, poorly graded. (A-2-4)		Loose, Grayish brown fine SAND with silt, poorly		AE JOB NO.: 20-4	4.3
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	14 ···		12		8		₁₄	:020
	16 ···		se, Brownish yellow fine SAND with silt, poorly		Medium dense, Pale brown clayey fine SAND with silt, poorly graded. (A-2-6)		 	
	18 ··· 		se, Gray to brownish yellow silty fine SAND, rly graded. (A-2-4) 9	Hedium dense, Dark grayish brown silty fine SAND, poorly graded. (A-2-4)	9			
	20		BT @ BT @ 20 Date Drilled h Asphalt Cold Boring Grouted and Ca Pai	1	Image: Non-State State BT @ 20'. Drilled: 6/3/2020 ad Capped with Asphalt Cold Boring under State	BT @ 20'. Bate Drilled: 6/4/2020 J Grouted and Capped with Asphalt Cold Patch	BORING	
	22			<u>Legend</u>	, aw,.			
		Asphalt	Limerock Base Fine Sand w Crushed Concrete Clayey Fine	DT Deite Terriede det Deeth Debu		 Natural Moisture Content (%) -200 % Passing No. 200 U.S. Standard Sieve <u>Note:</u> Each boring advanced by drilling through pavement layers and driving 	GEO-	
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				Meskel & Associates Engineering FL Registry No. 28142 3728 Philips Highway, Suite 208, Jacksonville, FL 32207	DATE: MAE PROJECT NO. PROJECT NVME. 7/1/2020 0021-0007	JEA Eastport Road Force Main Jacksonville, FL		1
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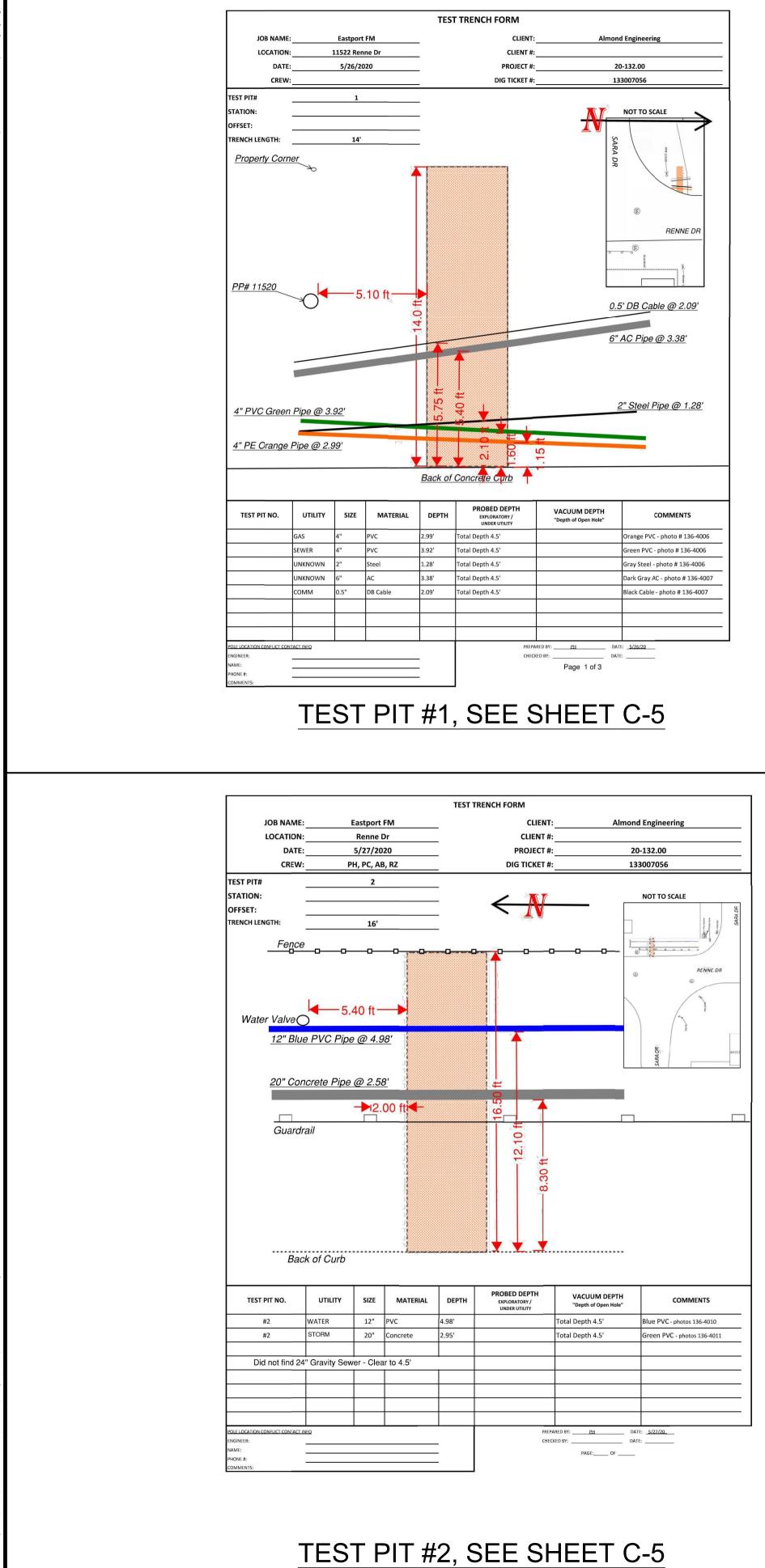


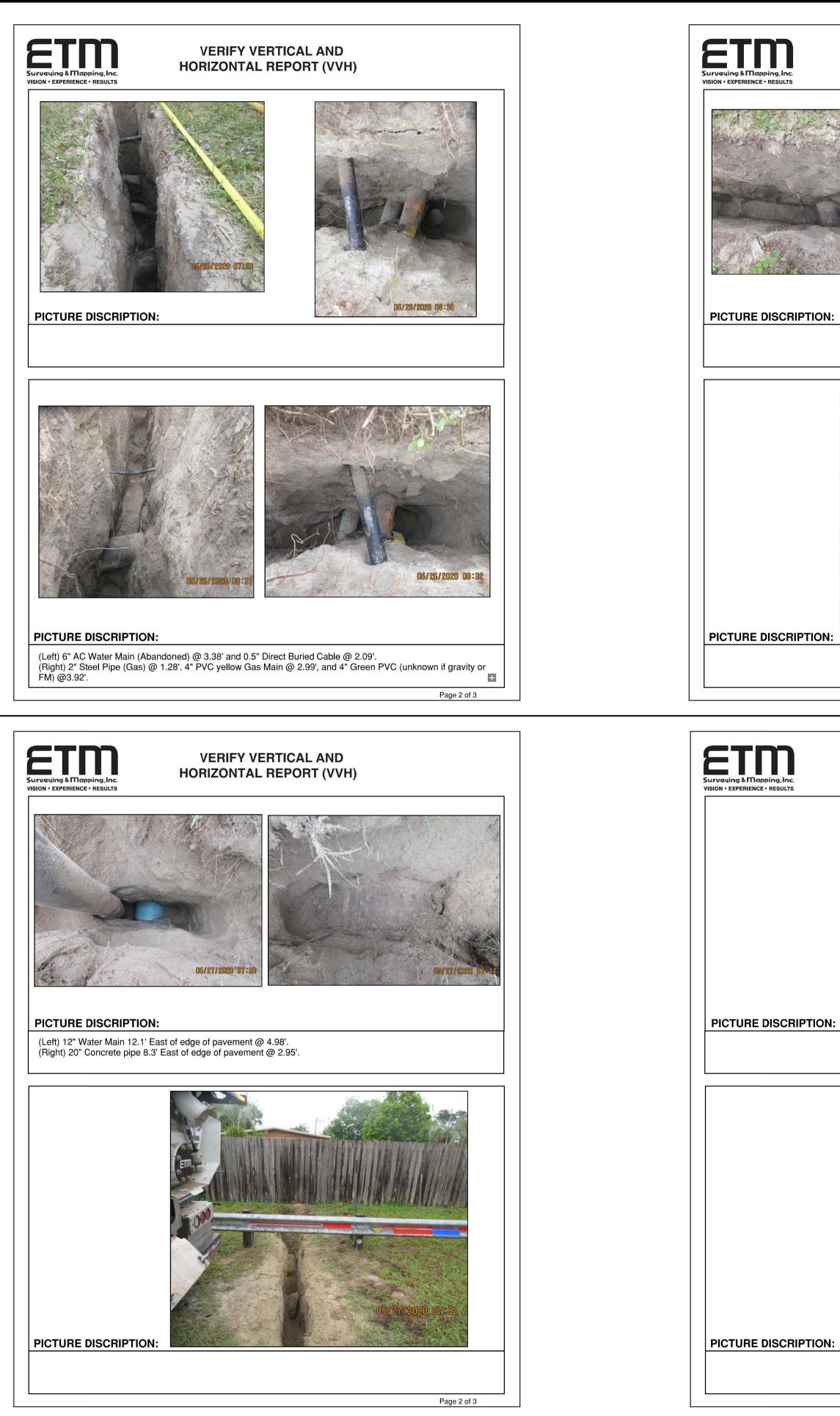




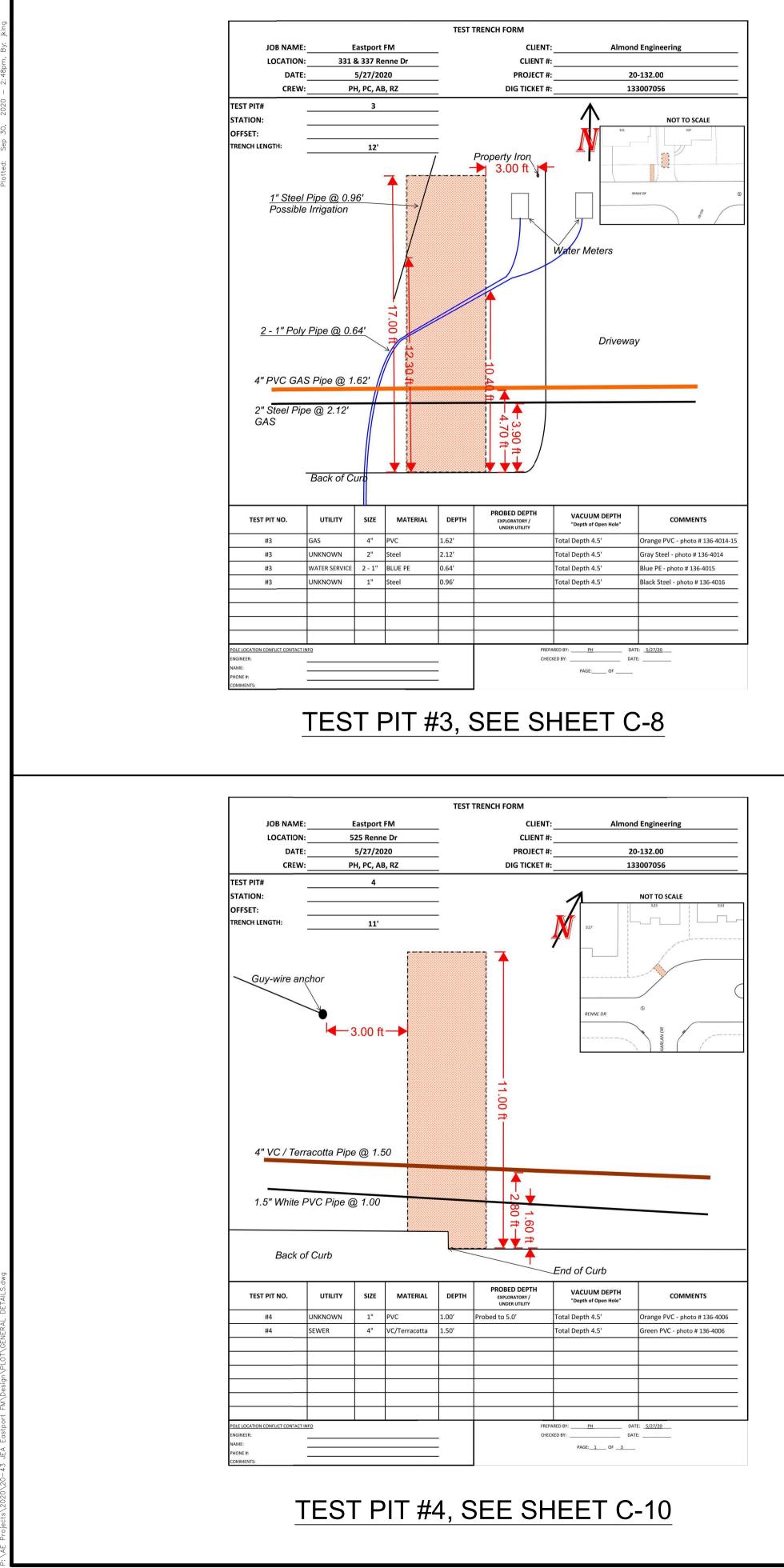
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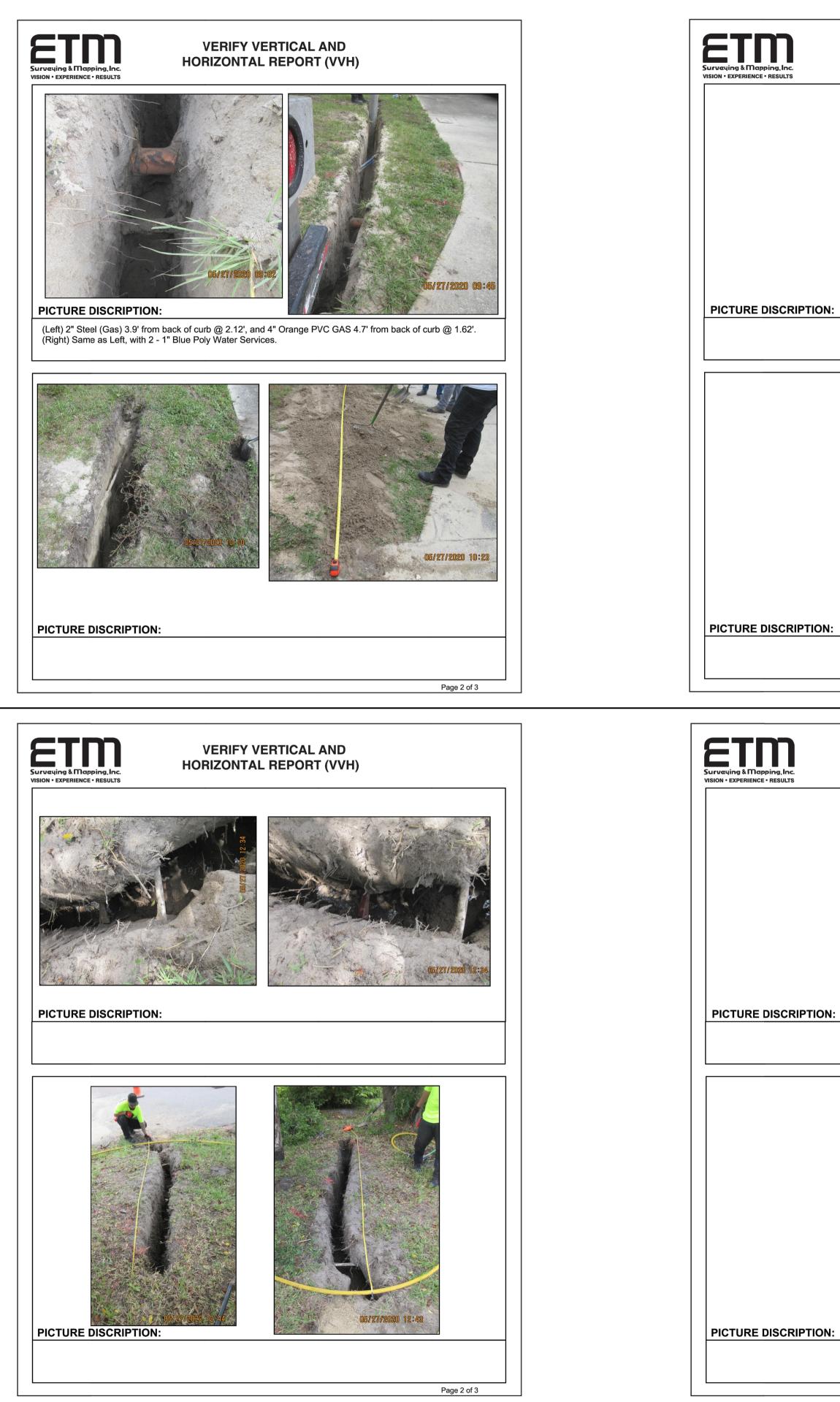
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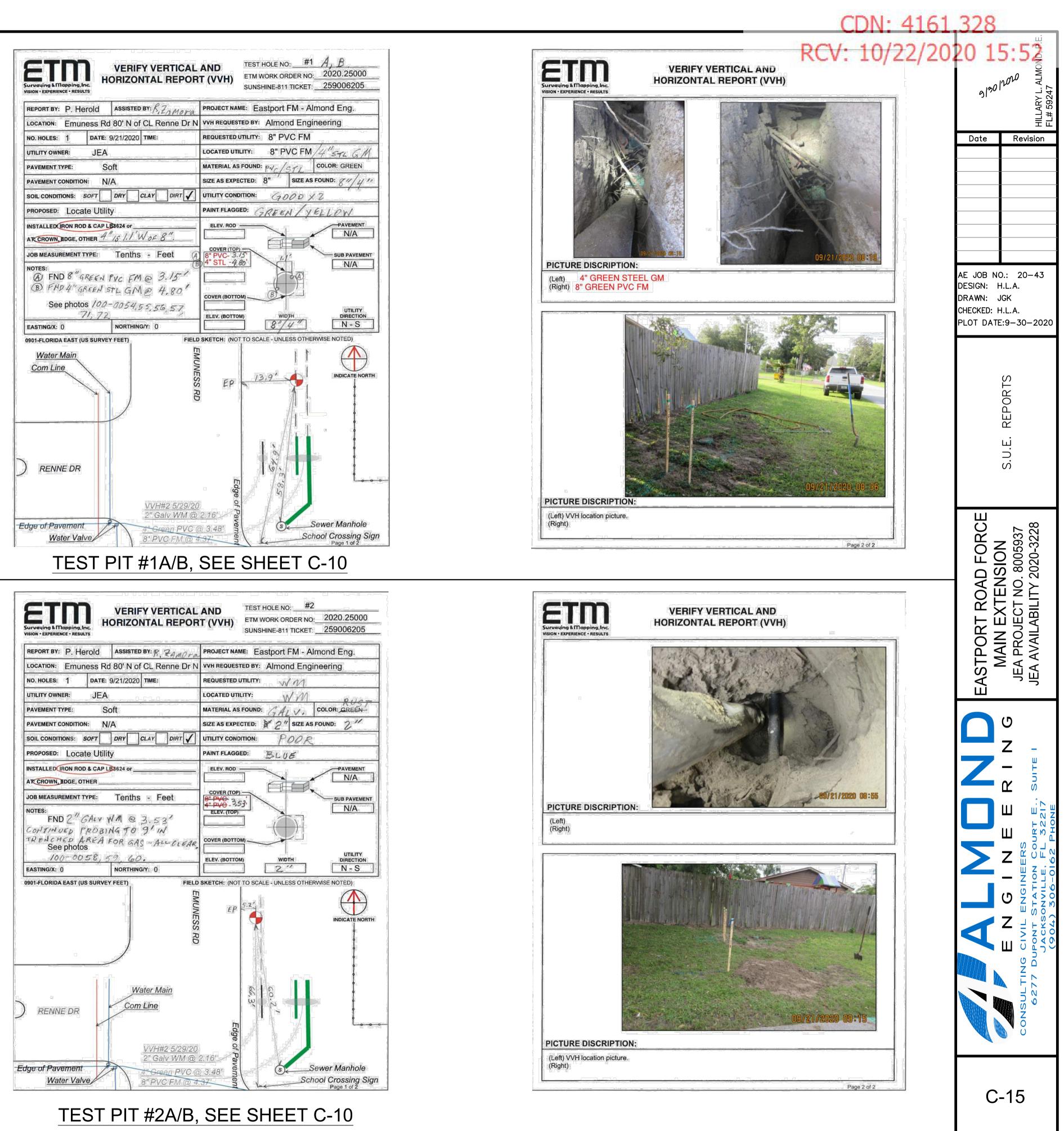


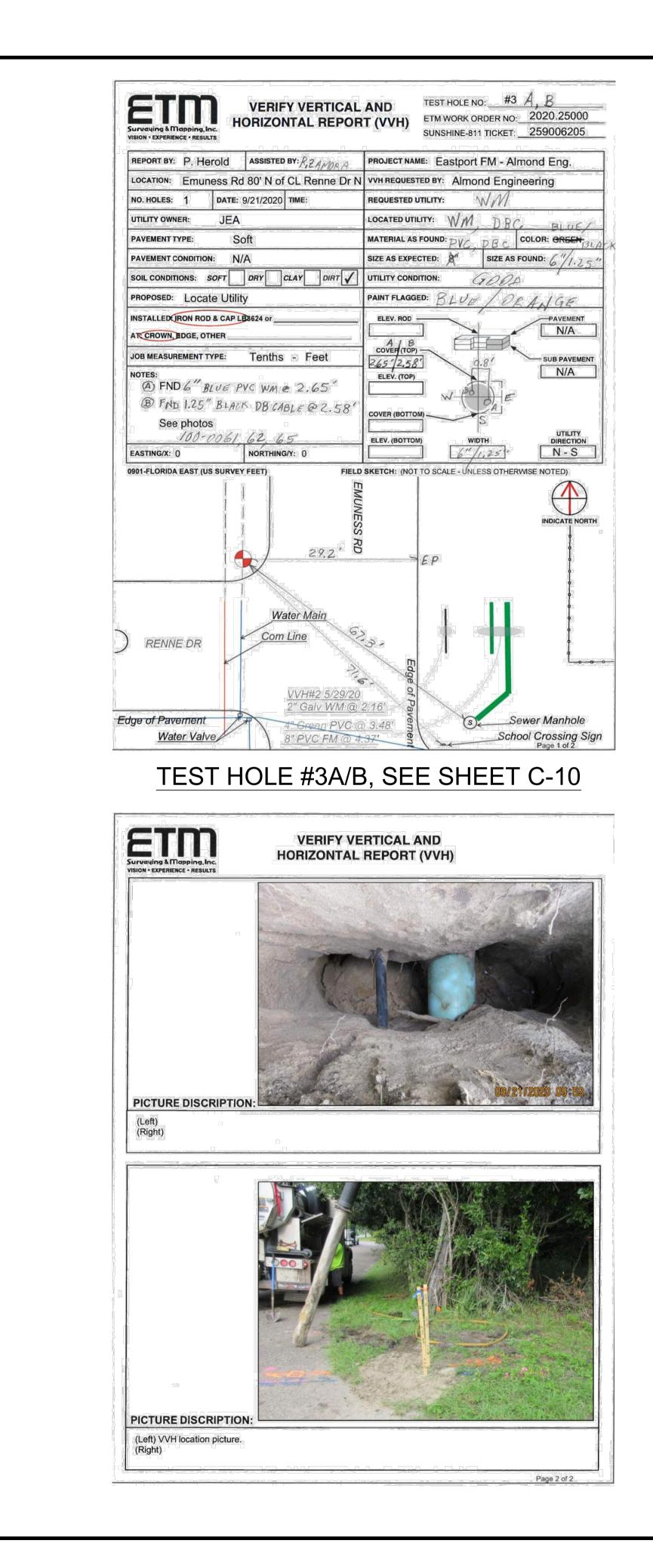
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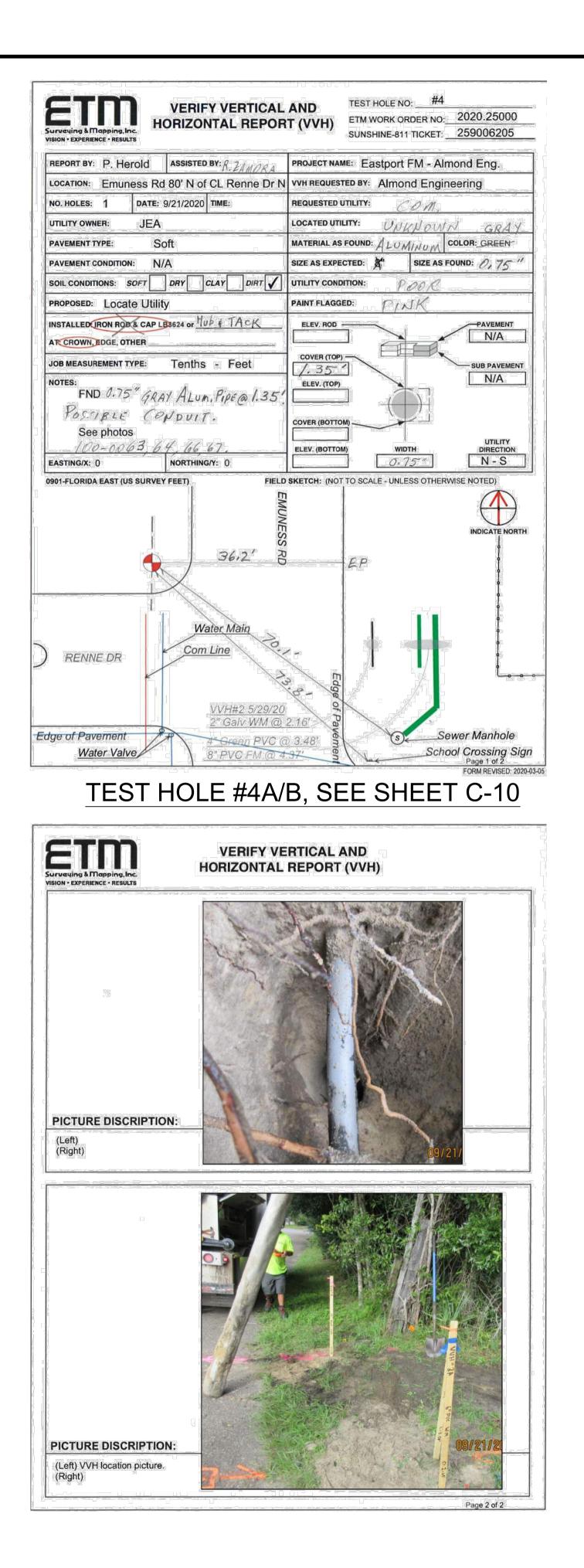


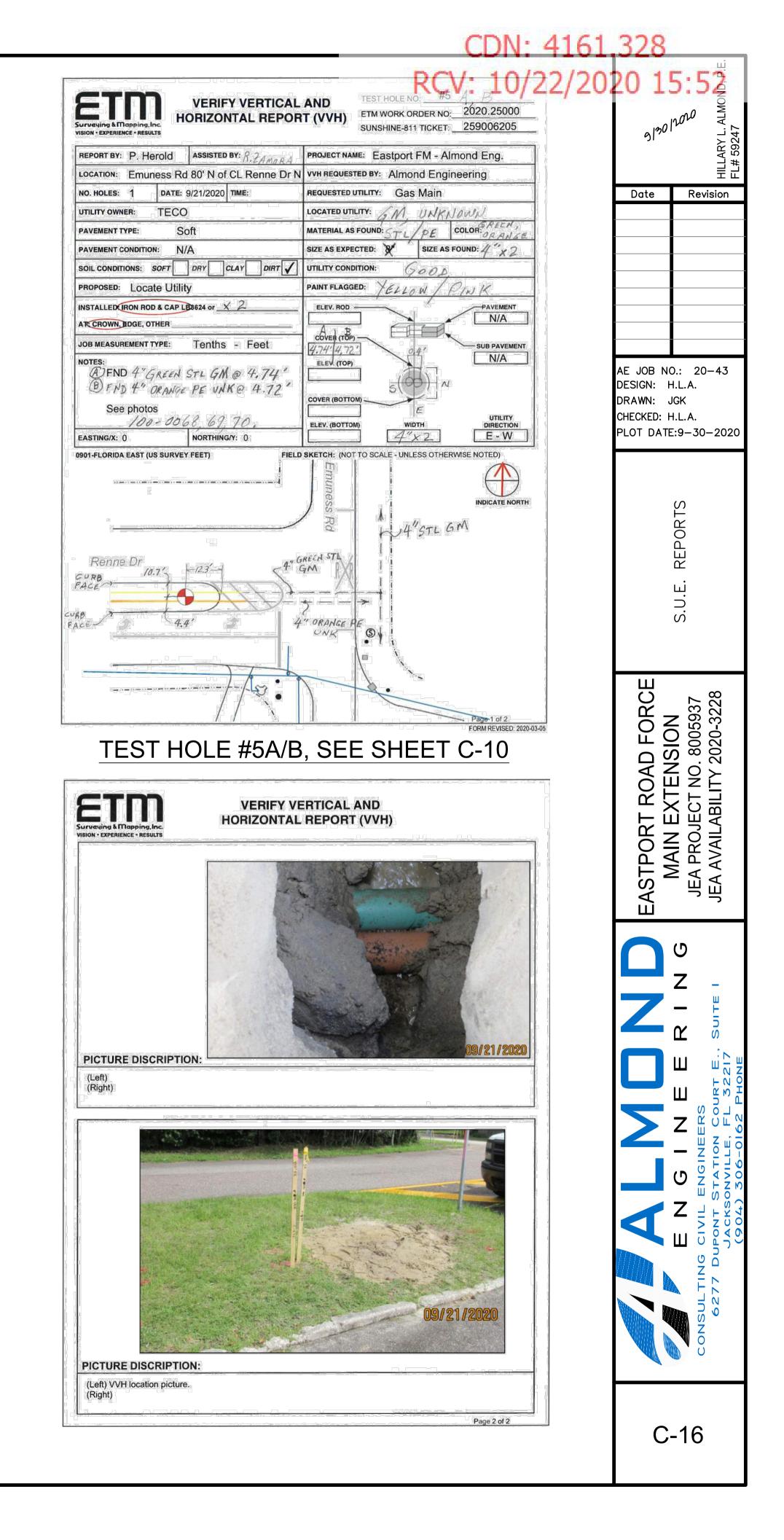
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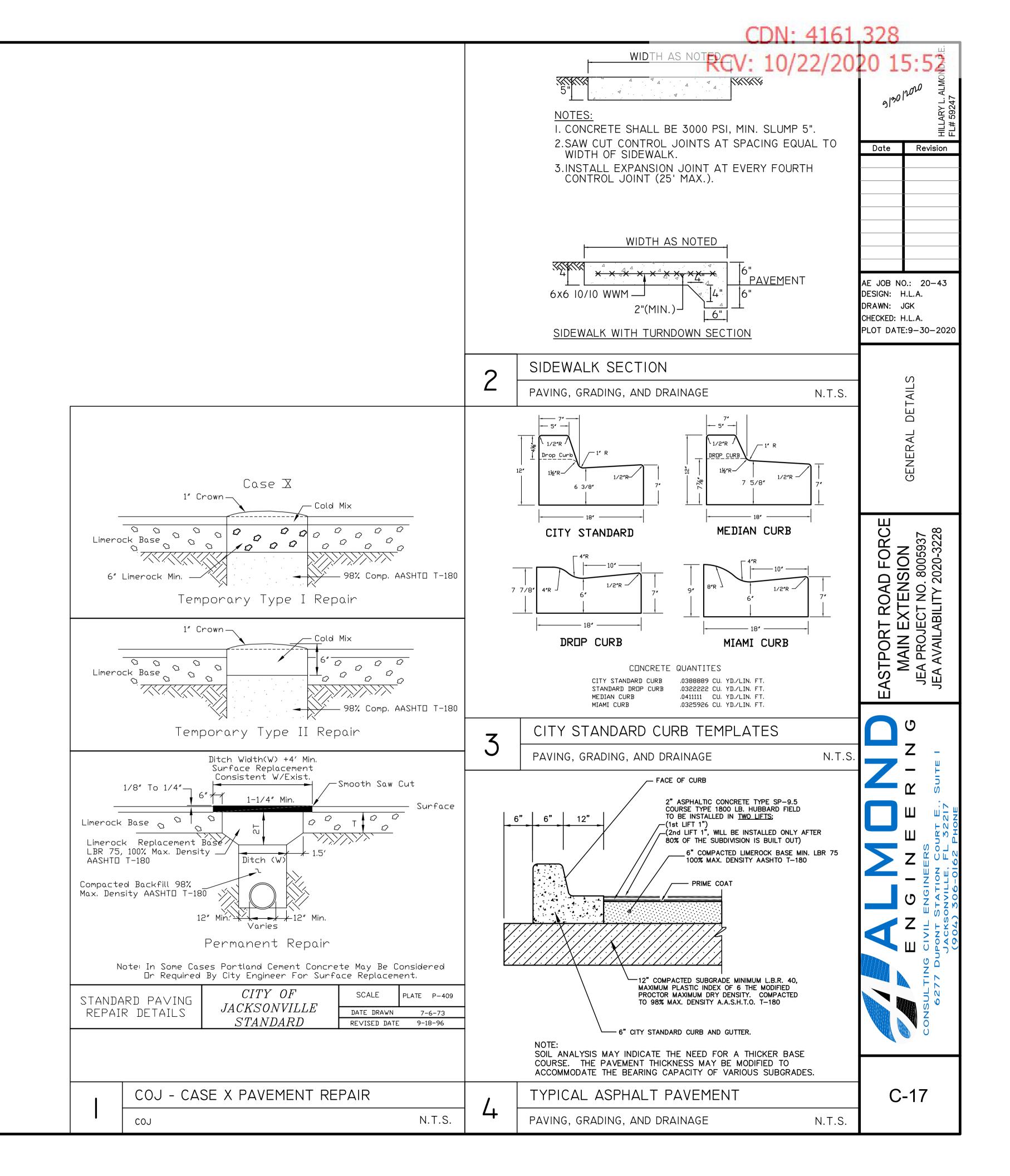
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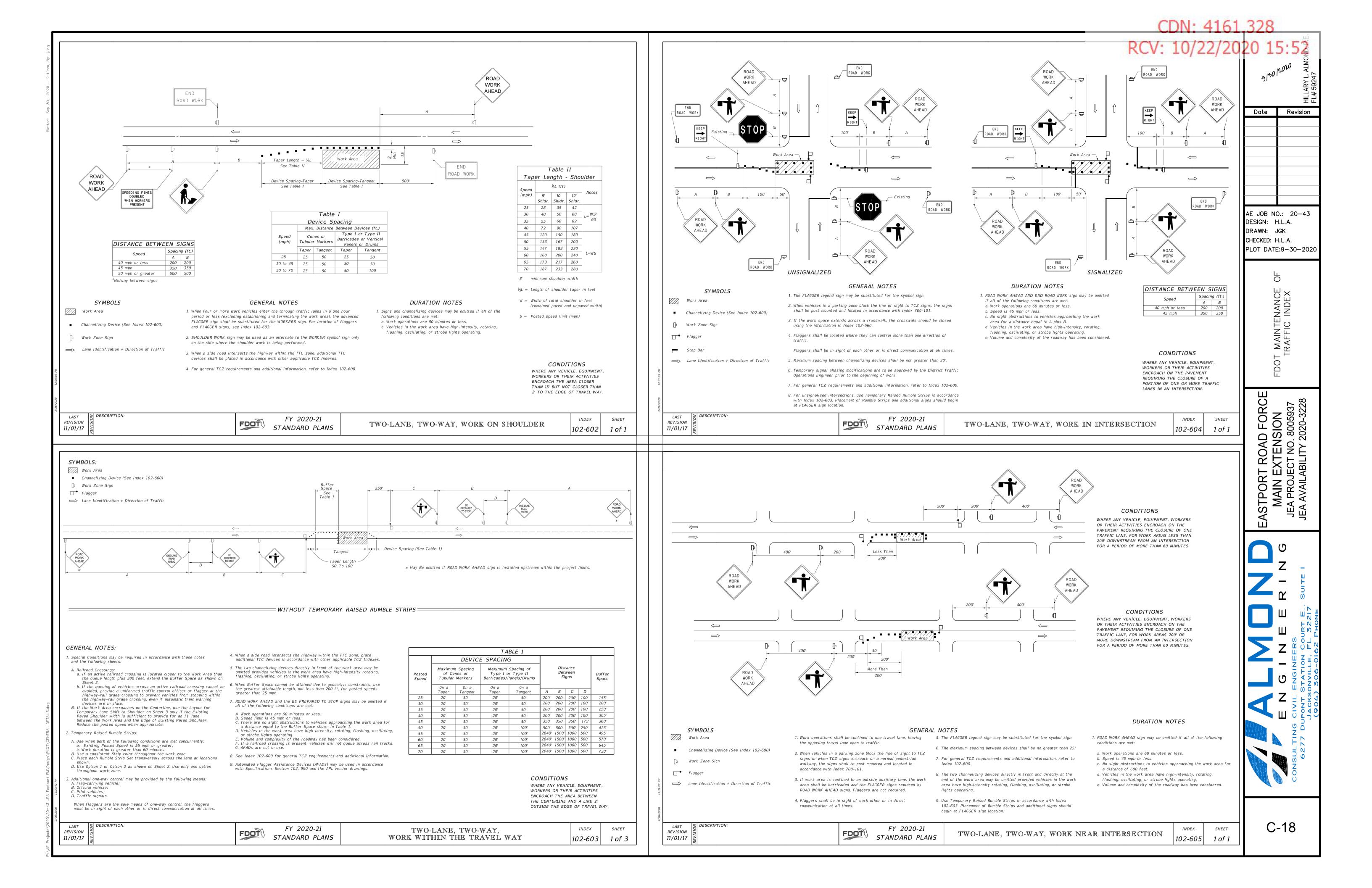


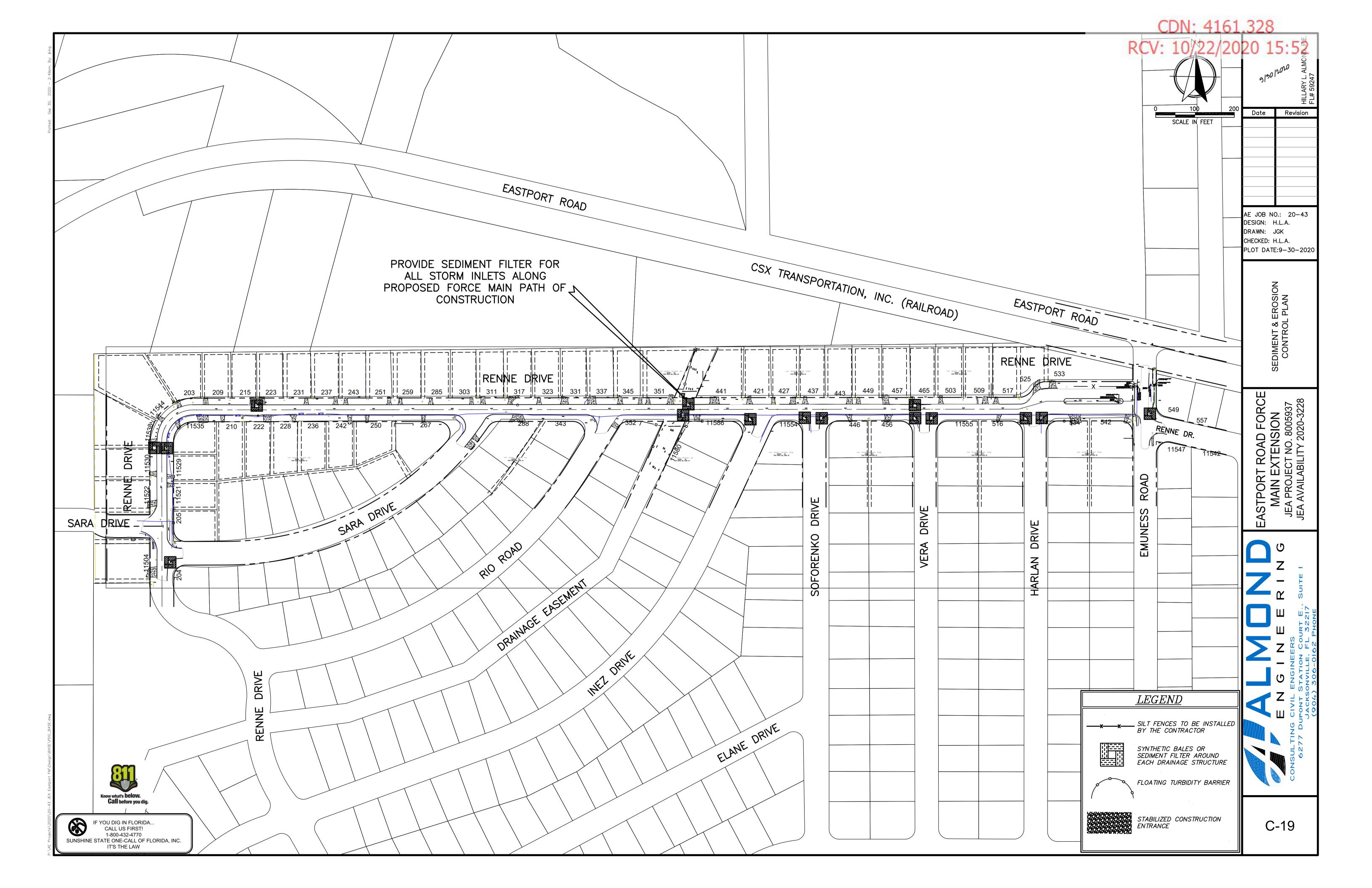


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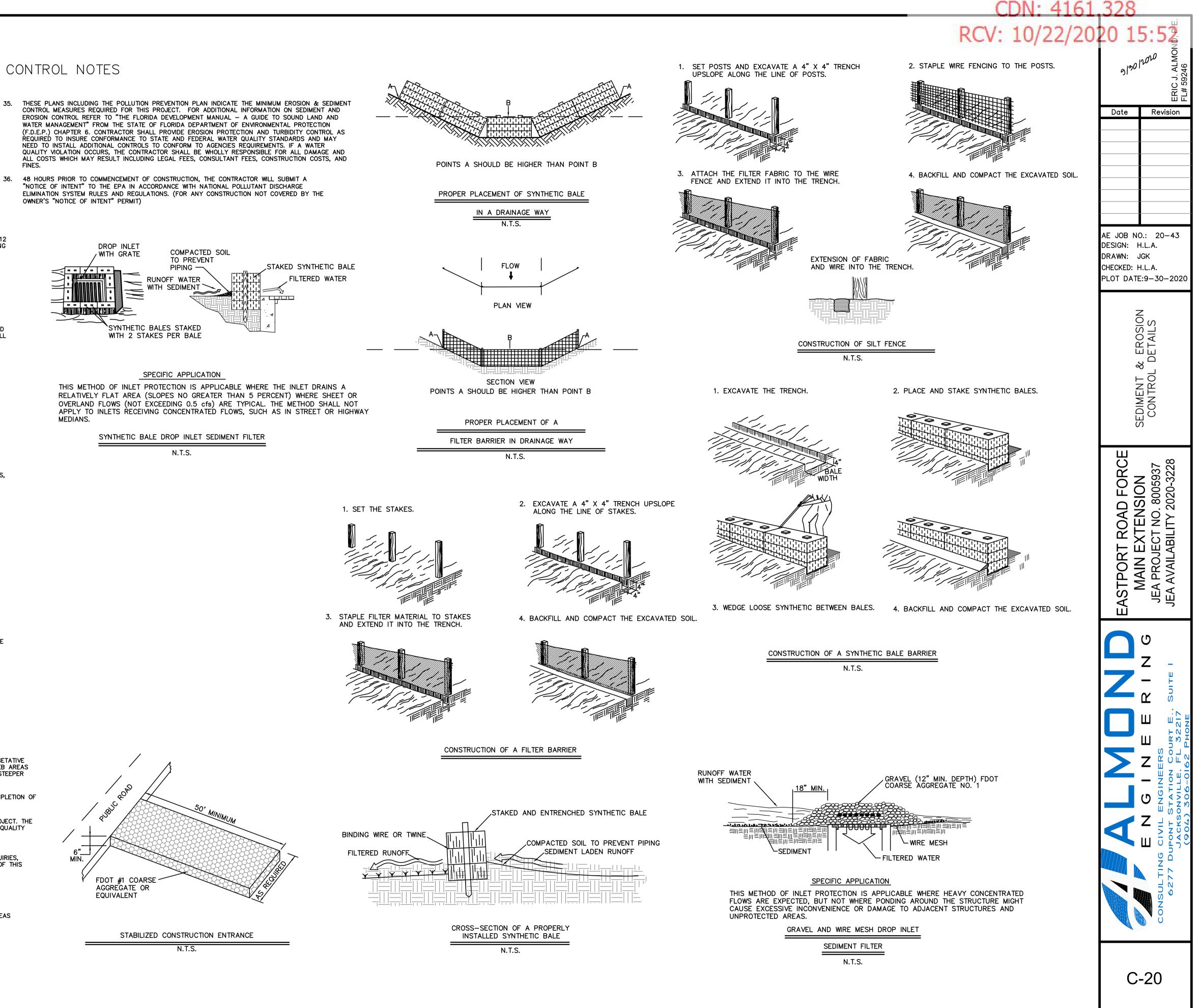


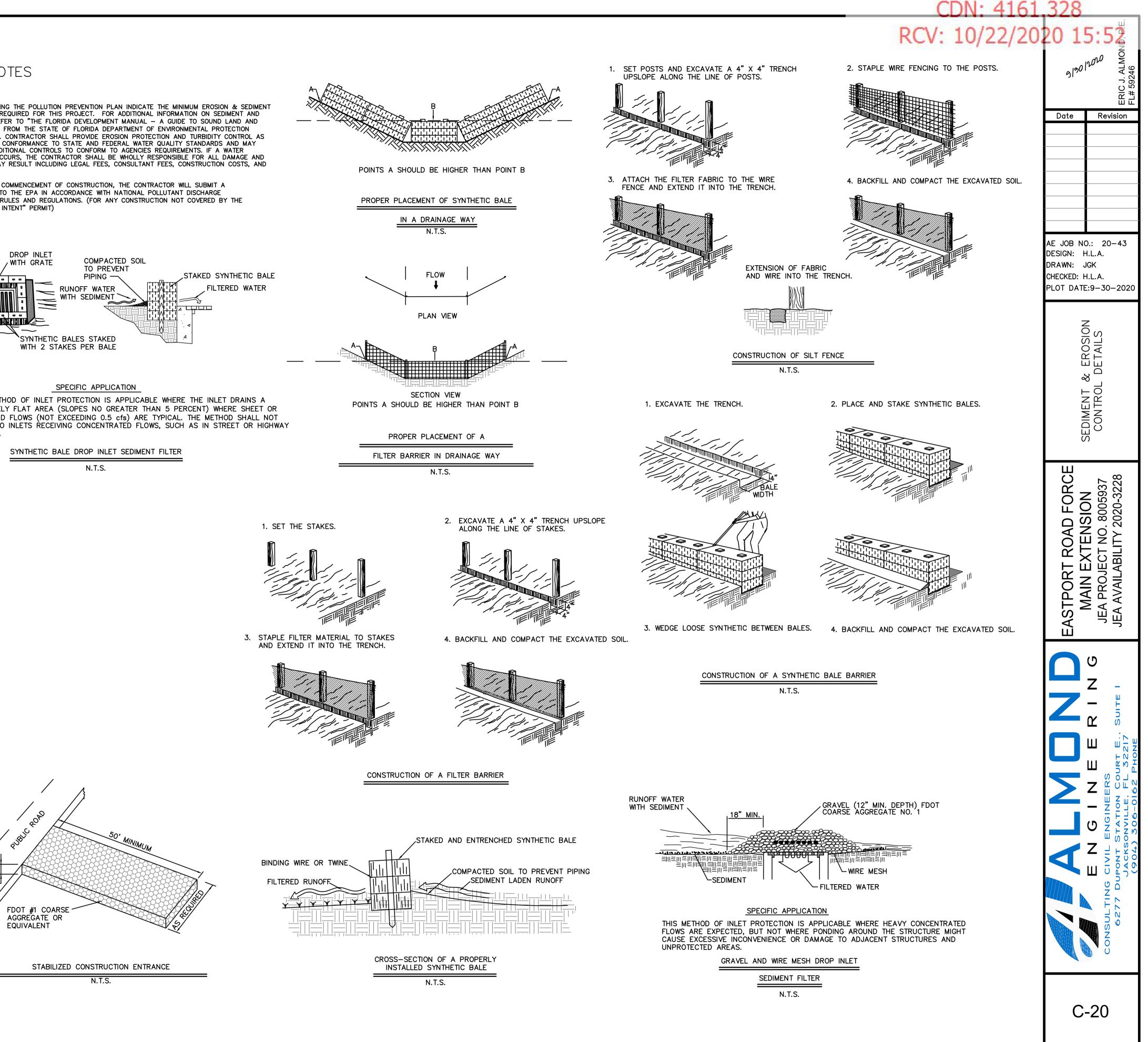


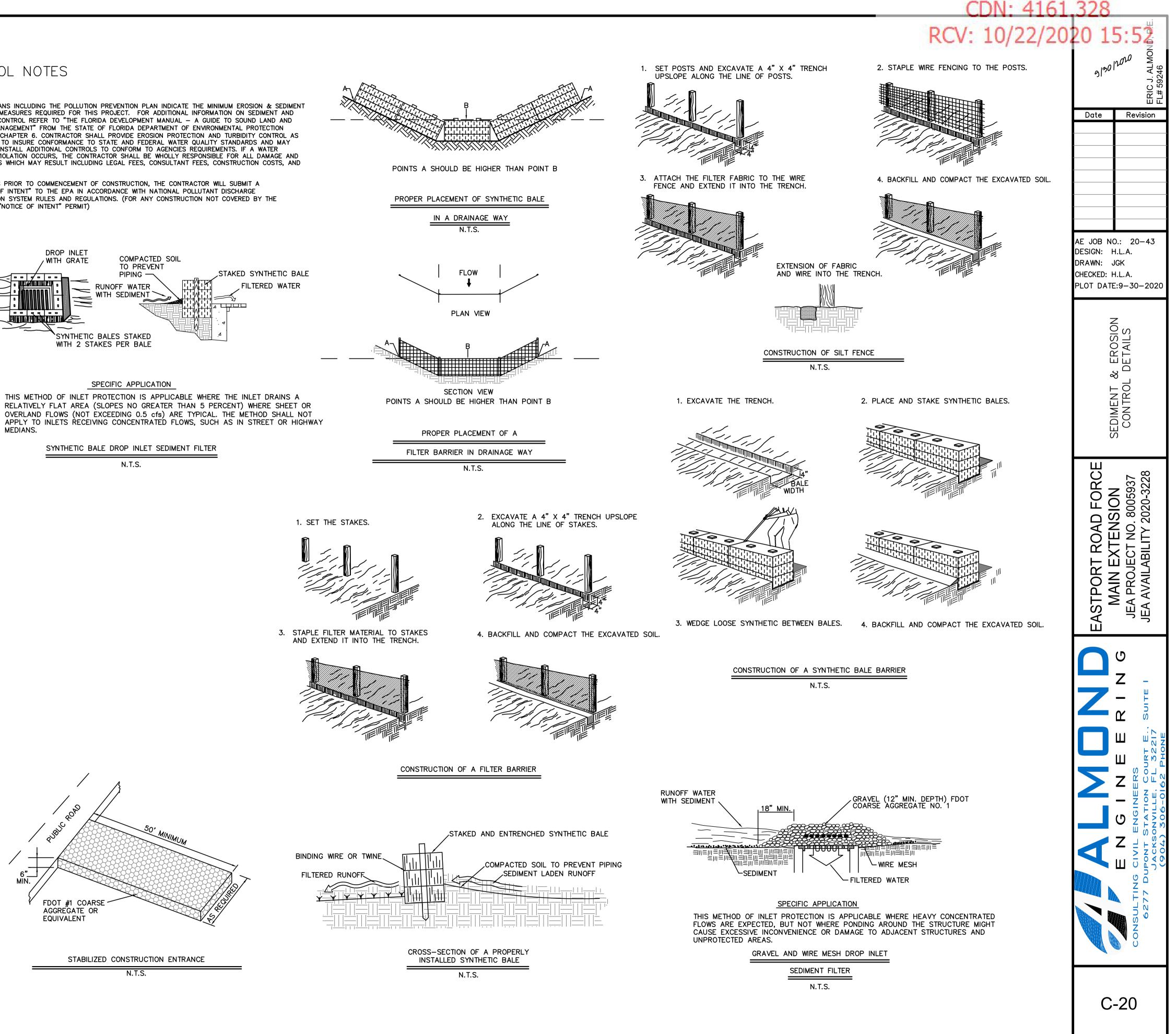
SEDIMENT AND EROSION CONTROL NOTES

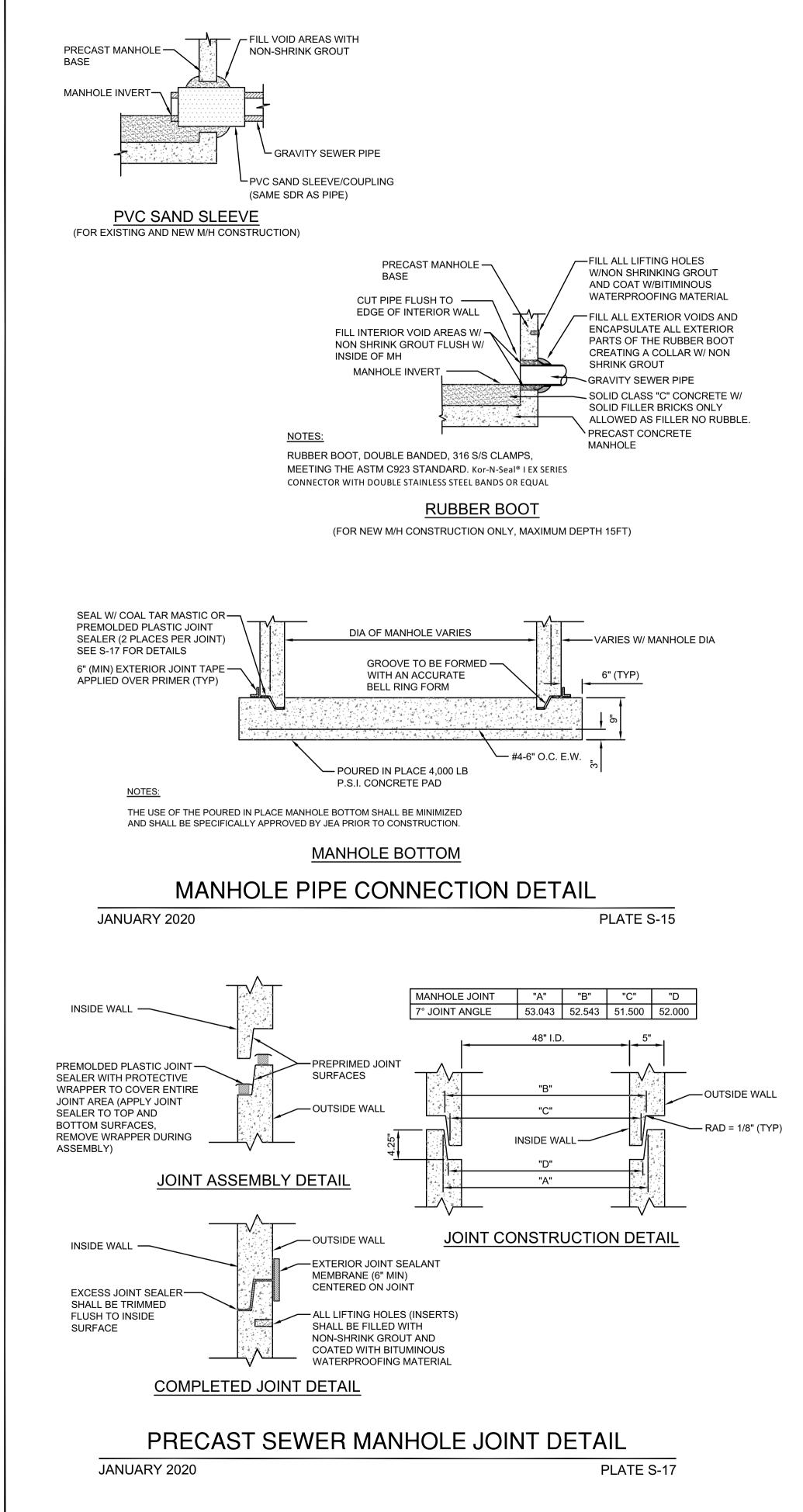
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
- ADDITIONAL PROTECTION ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE 3. PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
- 4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
- WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM 5. OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2- INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
- 6. FDOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON SEDIMENT FILTER DETAIL (SEE DETAIL THIS SHEET). THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
- 7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED
- 8. BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
- BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
- 10. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
- 11. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
- 12. LOOSE SYNTHETIC SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
- 13. SYNTHETIC BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. 14. CLOSE ATTENTION SHALL BE GIVEN TO THE REPAIR OF DAMAGED BALES, END RUNS AND
- UNDERCUTTING BENEATH BALES. 15. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. IT MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE, AFTER THE SYNTHETIC BALE OR FILTER BARRIERS, AND OR SILIT FENCES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
- SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL 18. AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY
- 19. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
- 20. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED DIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- 22. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
- 23. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.R.) CHAPTER 6.
- 24. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAILS (THIS SHEET) FOR TYPICAL CONSTRUCTION.
- 25. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
- 26. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
- 27. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
- 28. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED AND MULCHED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR SHALL USE ADDITIONAL MEASURES TO STABLIZE DISTRUREB AREAS THROUGH COMPACTION, SILT SCREENS, HAY BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
- 29. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION, AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
- 30. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
- THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES, 31. RELATIVE TO COMPLIANCE OF SJRWMD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.
- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL 32. PRACTICES AS OUTLINED IN THE PLANS AND SPECIFICATIONS AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT RULES AND REGULATIONS.
- 33. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS AND PRESERVATION EASEMENTS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD 34. AND/OR GRASS PER THE CONTRACT DOCUMENTS THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND DUVAL COUNTY STANDARDS AND MEETING THE NPDES FINAL STABILIZATION REQUIREMENTS.

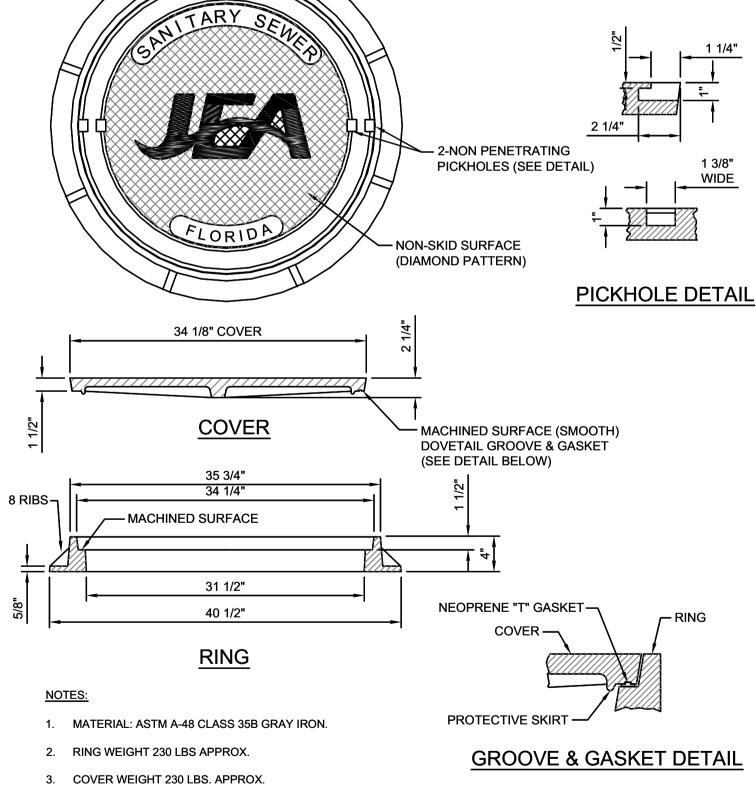
- FINES.
- OWNER'S "NOTICE OF INTENT" PERMIT)











- 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

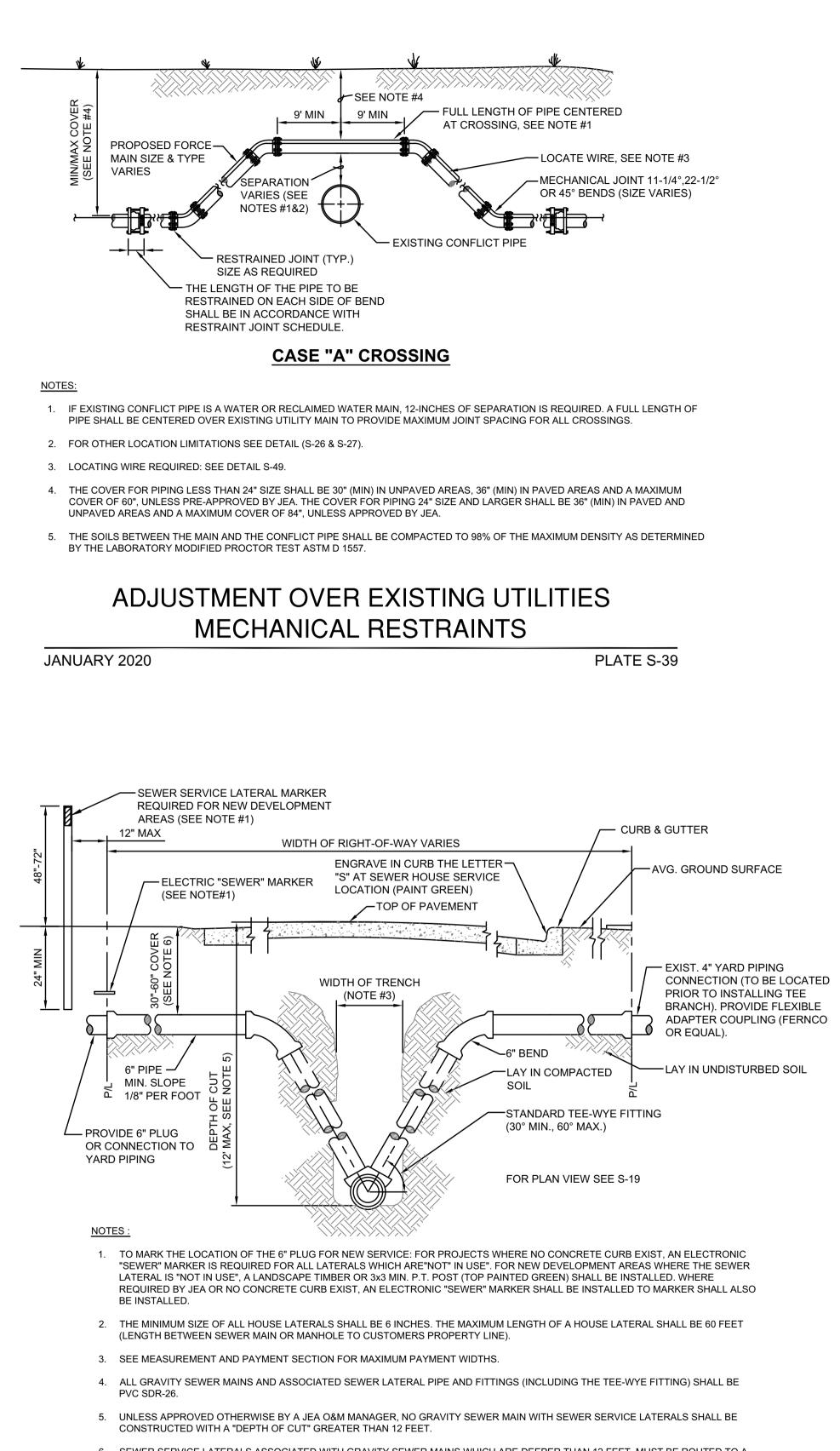
JANUARY 2020

PLATE S-1

SANITARY S

JANUARY 2020

CDN: 4161,328	
RCV: 10/22/2020 1	1) 306-0162 PHONE (904) 306-2185 FAX DATE REVISIONS
ANHOLE FRAME & COVER FINISHED GRADE	Building Communitysm
TYPE - "C" MANHOLE Solid CLASS "C" CONCRETE W/SOLID FILLER BRICKS ONLY ALLOWED AS TO 1/2" PER FOOT.	JEA STANDARD SANITARY SEWER DETAILS
NTES 1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. CATORNIN GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL 1. THE INTERIOR AND EXTERIOR OF MANHOLE AND INTERIOR OF ADJUSTMENT RINGS SHALL BE GIVEN TWO COAT 0. BITUMINOUS WATERPROOFING MATERIAL. 1. NISILTS, CLAY OR HIGHLY ORGANIC SOLLS (FINE-GRAINED SOLLS INCLUDING SOLL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOLLS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH ASSHTO CLASS A-3 SOLL COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE). SANDTARARY SEQUENCES MURY 2020 PLATEST	PROJ. NO. 20-43 DATE: JANUARY 2019 SCALE: AS NOTED

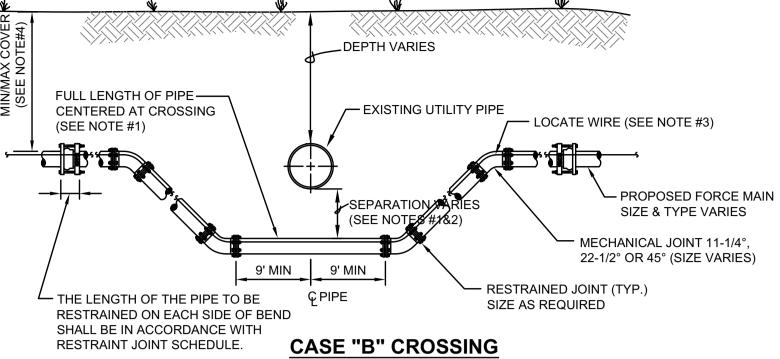


6. SEWER SERVICE LATERALS ASSOCIATED WITH GRAVITY SEWER MAINS WHICH ARE DEEPER THAN 12 FEET, MUST BE ROUTED TO A GRAVITY SEWER HIGH-LINE, A MANHOLE OR OTHER JEA APPROVED METHOD.

7. THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER, WHERE POSSIBLE (CONTINGENT UPON MEETING THE CUSTOMER'S ON-SITE CONDITIONS AND LOCAL CONSTRUCTION STANDARDS). A LATERAL REQUIRING MORE THAN 60" OF COVER MUST BE APPROVED, PRIOR TO CONSTRUCTION, BY JEA. HOUSE LATERAL - SECTION VIEW

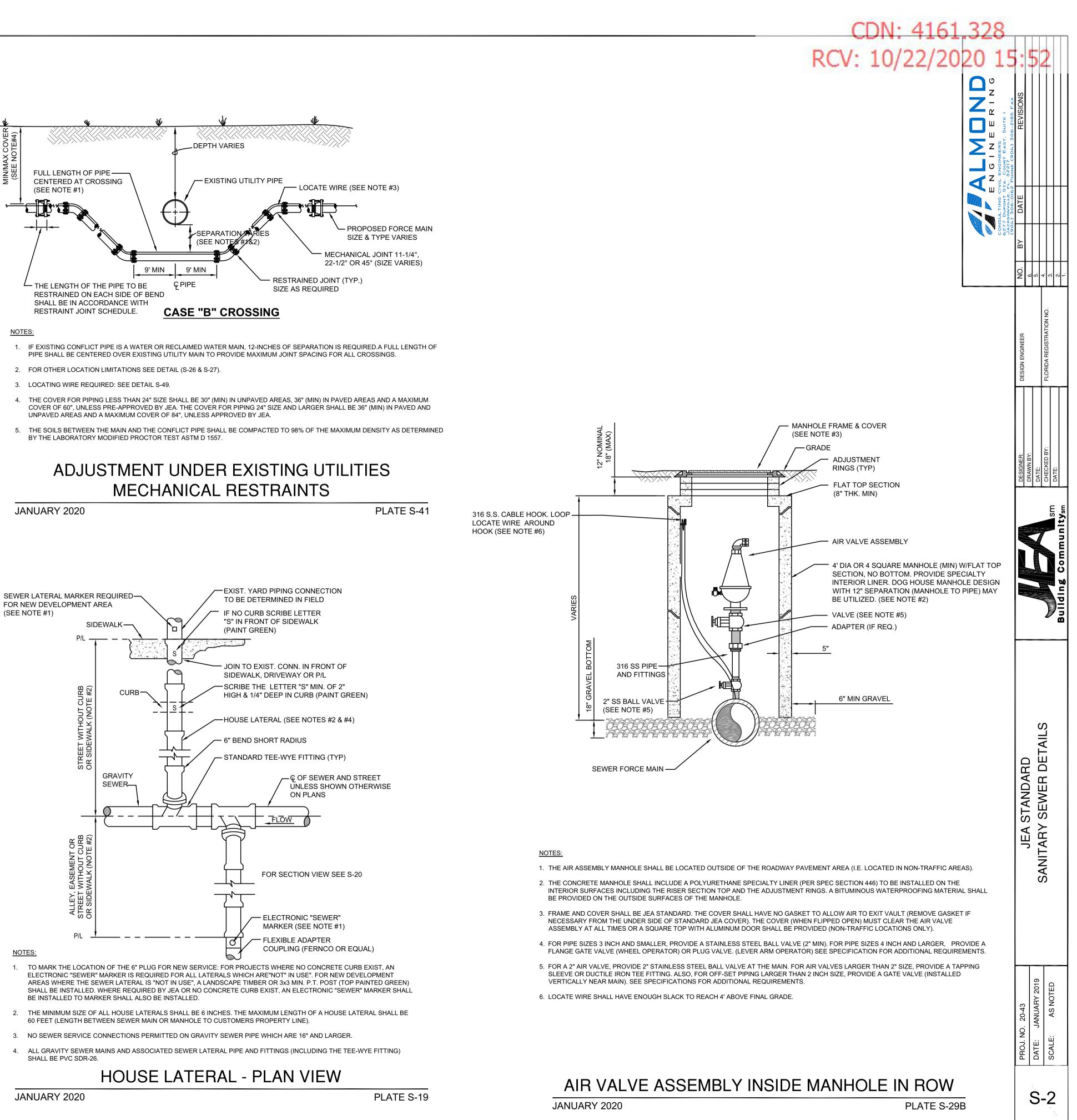
JANUARY 2020

PLATE S-20



- 4. THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREAS, 36" (MIN) IN PAVED AREAS AND A MAXIMUM UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
- BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.

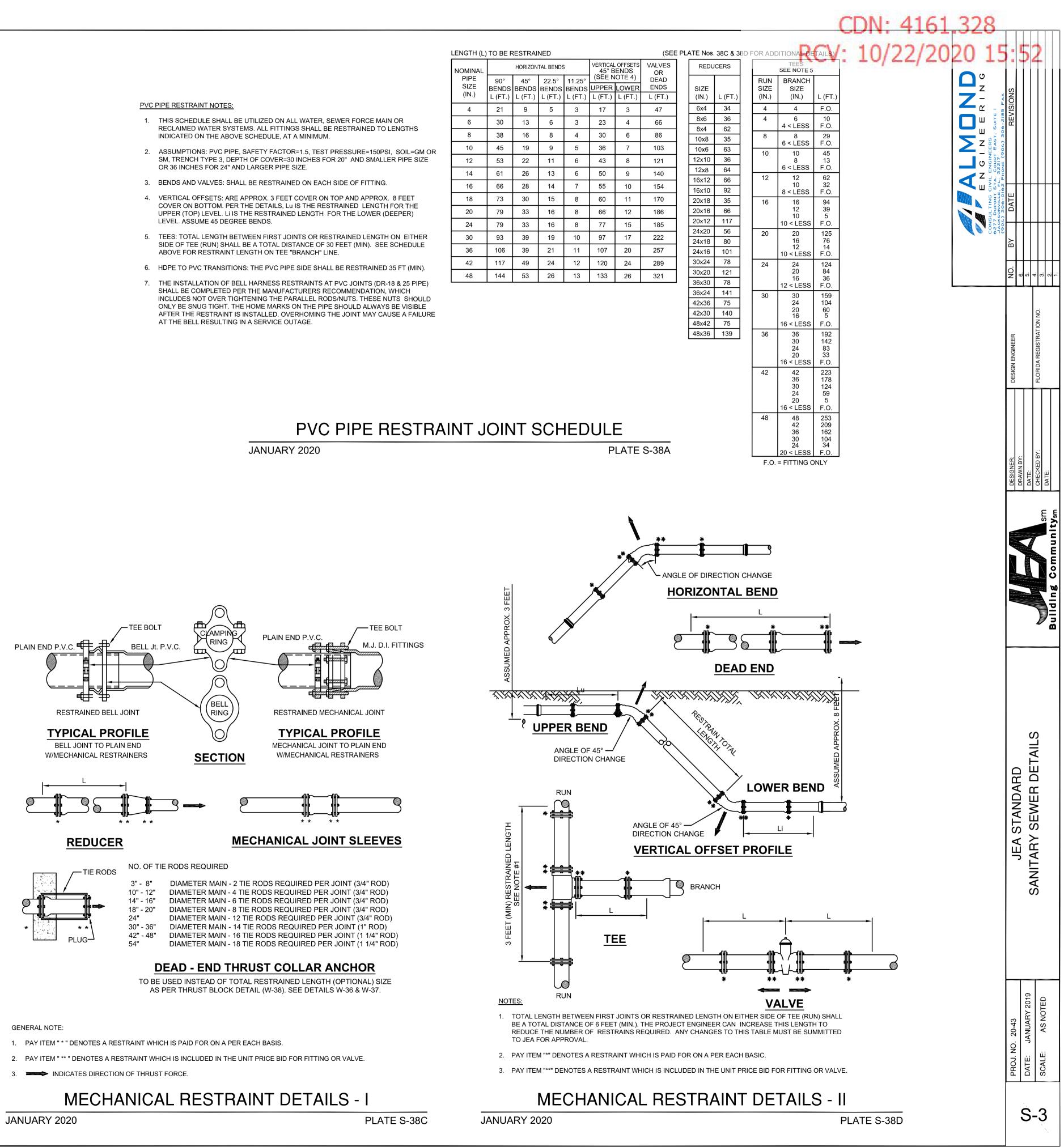
MECHANICAL RESTRAINTS



- SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE.
- 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.

- 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

LENGTH (L)	TO BE F	RESTRAI	NED			
NOMINAL		HORIZON	VERTICAL OFFSETS 45° BENDS (SEE NOTE 4)			
PIPE SIZE (IN.)	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)		LOWER
4	21	9	5	3	17	3
6	30	13	6	3	23	4
8	38	16	8	4	30	6
10	45	19	9	5	36	7
12	53	22	11	6	43	8
14	61	26	13	6	50	9
16	66	28	14	7	55	10
18	73	30	15	8	60	11
20	79	33	16	8	66	12
24	79	33	16	8	77	15
30	93	39	19	10	97	17
36	106	39	21	11	107	20
42	117	49	24	12	120	24
48	144	53	26	13	133	26



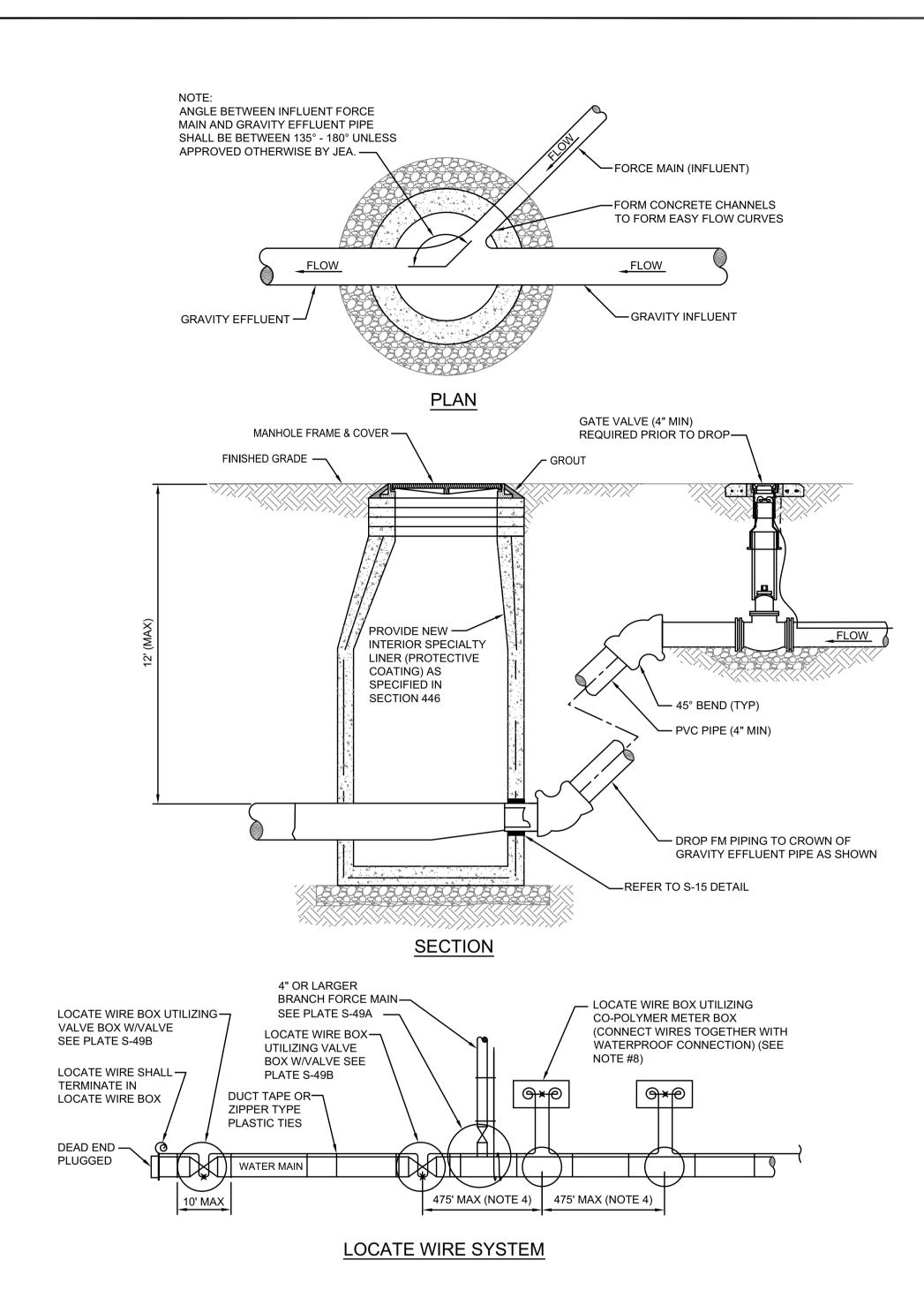


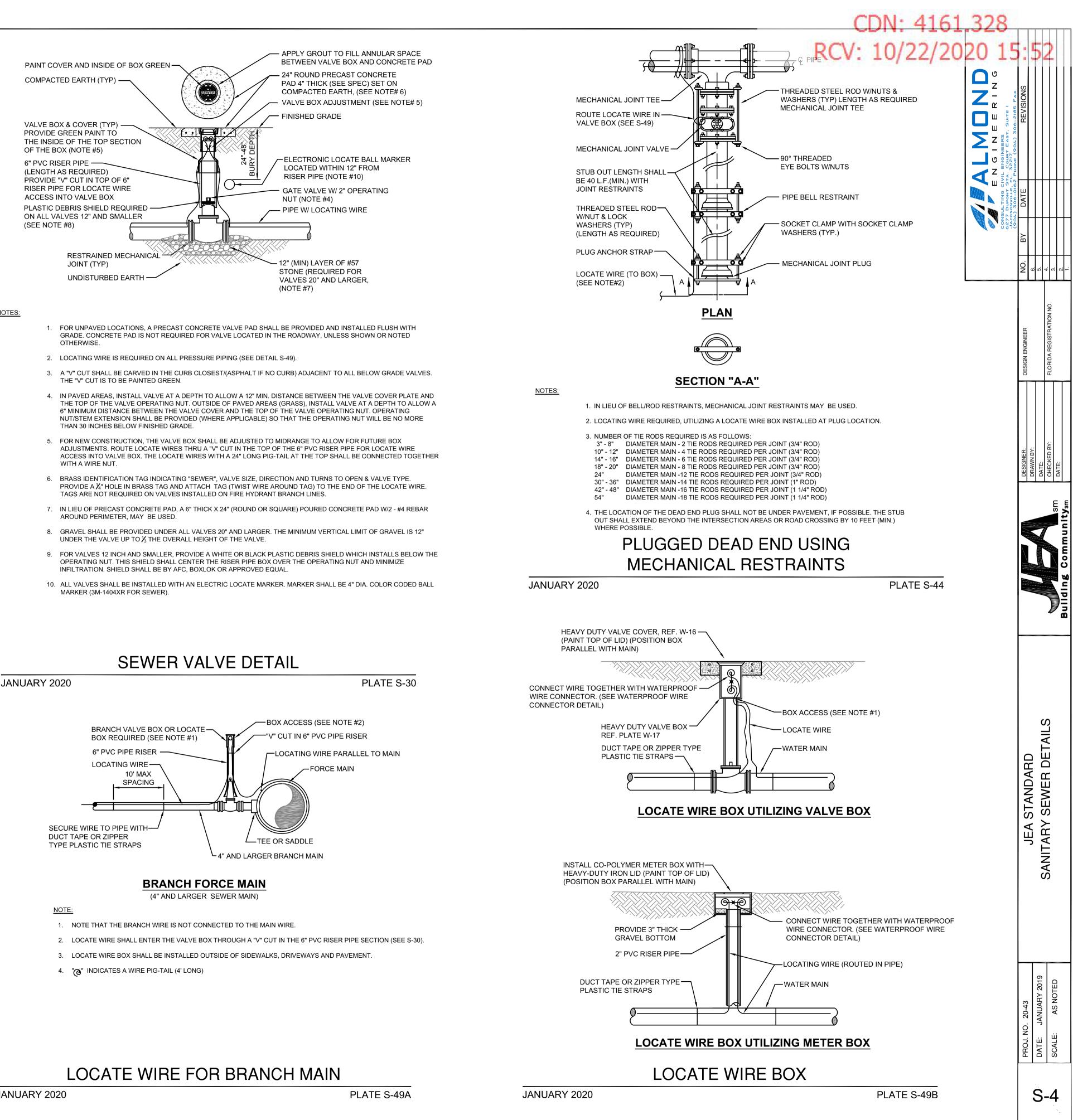
LOCATE WIRE CONSTRUCTION FOR FORCE MAINS

- 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.
- 8. AN "LW" CUT SHALL BE CARVED IN THE CONCRETE CURB AND PAINTED AT ALL LOCATE WIRE BOXES.
- 7. "O" INDICATES A WIRE PIG-TAIL (24" LONG)

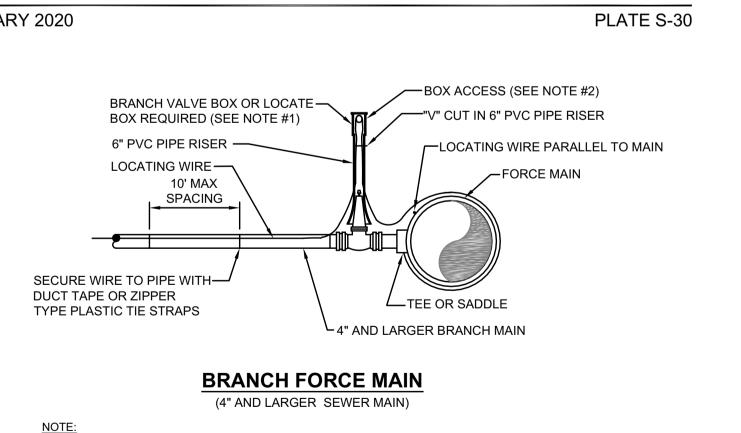
JANUARY 2020

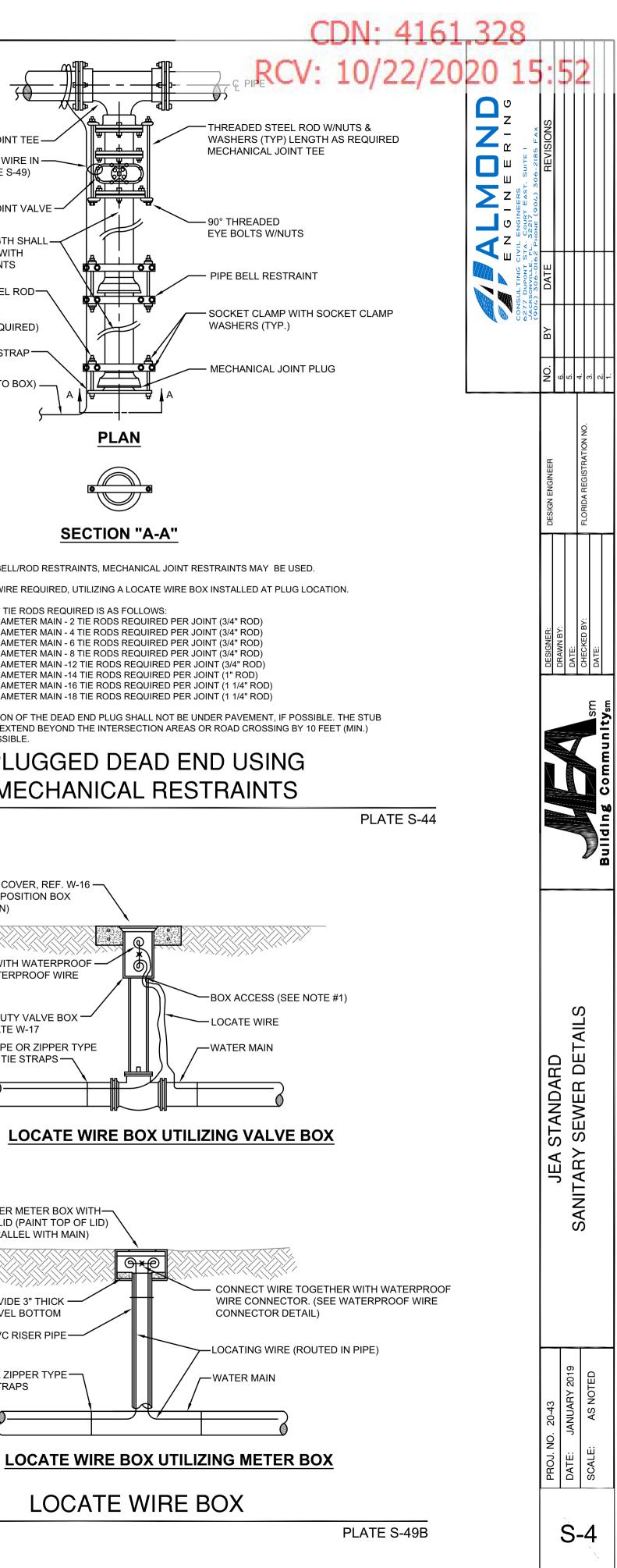
- SHALL BE COPPER CODED STEEL AS SPECIFIED IN SPEC. SECTION 750. 6. "X" INDICATES THAT THE WIRES ARE CONNECTED TOGETHER WITH WATERPROOF CONNECTION. (SEE DETAIL W-49B)
- INTERVALS. SEE DETAIL PLATE S-49B. WIRE CONNECTIONS BELOW GROUND (OUTSIDE OF A BOX) SHALL BE AVOIDED. 5. LOCATING WIRE SHALL BE 12 GAUGE 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
- 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'
- 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
- 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
- NOTES: 1. LOCATING WIRE TO BE INSTALLED IN EITHER THE ONE OR ELEVEN O'CLOCK POSITION ON ALL DUCTILE IRON 0R PVC (PRESSURE





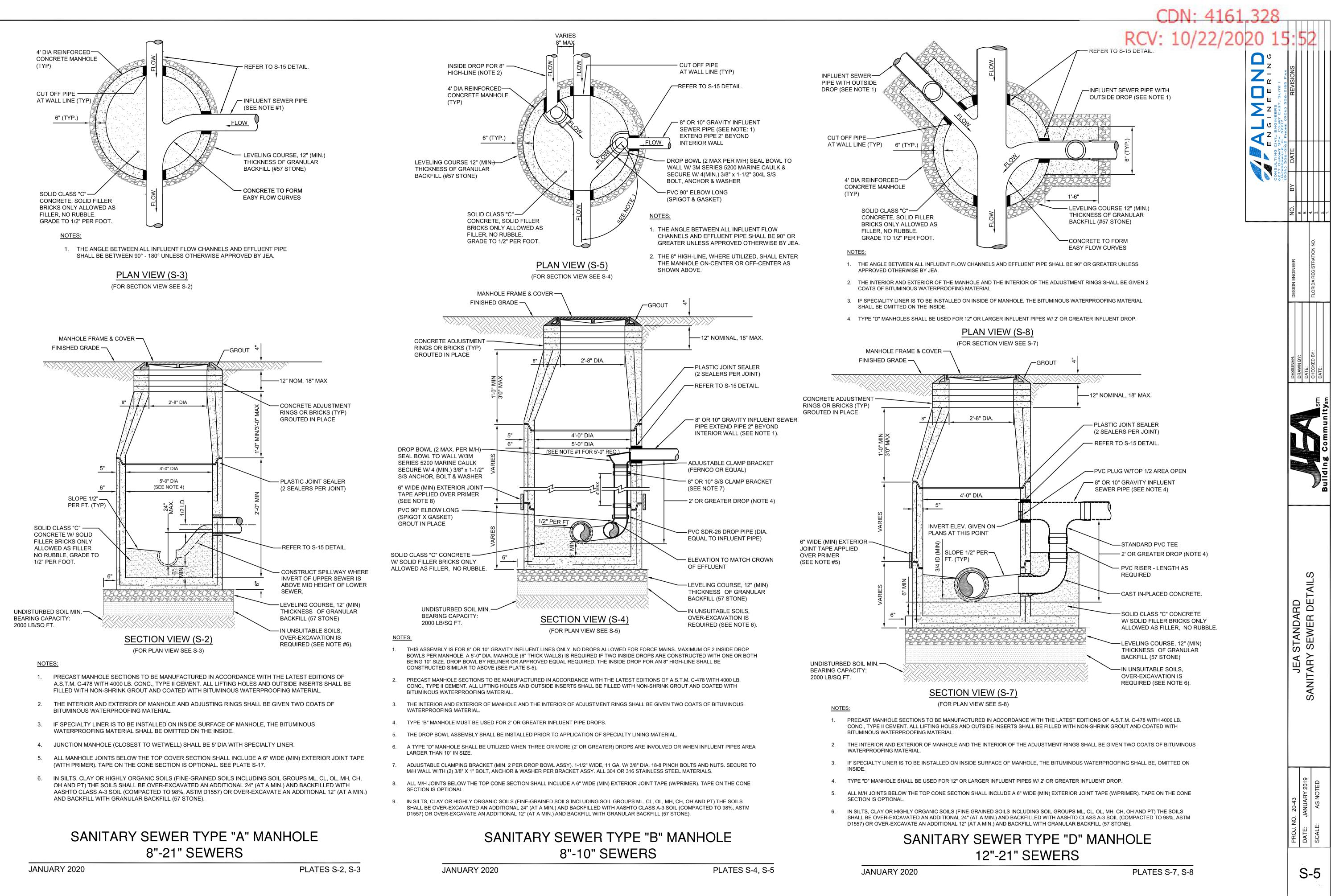
NOTES:





JANUARY 2020

PLATE S-49



HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

PROPOSED UTILITY

	PO	TABLE WA	TER		STEWATE Y AND FOF		RECL	AIMED WA	ATER	VACI	UUM 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 2020

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 2020

PLATE W-11

