

UTILITY PERMIT

PERMIT NO: 2020-H-294-00451

STATE ROAD INFORMATION

County: Duval	Section: 72001000	State Road No: SR 9A	Beginning Mile Post: 35.511	Ending Mile Post: 35.511
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APPLICANT INFORMATION

The Utility Agency Owner (UAO) shall be identified in this Applicant Information Box. When the UAO is a City or County and desires to have the Utility Builder make a joint permit applicant, as prescribed in Section 2.1(4) of the 2017 Utility Accommodation Manual (UAM), the Utility Builder shall also be identified in this Applicant Information Box. A Utility Builder alone cannot apply for a utility permit without the City or County adding them as a joint applicant.

<u>Utility Agency/Owner (UAO)</u>		<u>Utility Builder (only applicable when the UAO is a City or County)</u>	
Name:	<u>JEA (Elizabeth DiMeo)</u>	Name:	_____
Contact Person:	<u>JEA (Elizabeth DiMeo)</u>	Contact Person:	_____
Address:	<u>21 W. Church Street T-4</u>	Address:	_____
City:	<u>Jacksonville</u>	City:	_____
State:	<u>Florida</u>	State:	_____
Zip:	<u>32202</u>	Zip:	_____
Telephone:	<u>9046658139</u>	Telephone:	_____
Email:	<u>dimeea@jea.com</u>	Email:	_____

WORK DESCRIPTION

The Applicant(s) requests permission from the Florida Department of Transportation (FDOT) to construct, operate, and maintain the utilities as described below and as depicted in the incorporated documentation.

JEA: 5th Street West 20-inch Force Main Extension Project:

1. 720 LF of 24-inch HDPEP by HDD under I-295 (west) (SR-9A)
2. 130 LF of 36-inch Steel casing by jack & auger bore under Lane Avenue North (SR-103)
3. 80 LF of 36-inch Steel casing by jack & auger bore under Edgewood Avenue North (SR-111)

Utility Work No: _____

Additional sheets are attached and are incorporated into this permit Yes ☒ No ☐

For FDEP certification, the FDOT agency report is attached in accordance with UAM Section 2.4.1 (13) Yes ☐ No ☒

TRAFFIC CONTROL (TCP)

☒ The TCP will comply with the following 600 series index(es) 600, 603, 604

☐ A TCP has been attached and incorporated into this permit application in compliance with UAM Section 2.4.2.

MOT Technician's contact information (may be supplied at the two (2) business day notification to FDOT):

Name: Claro Magpantay, PE Telephone (904) 652-1186 ext. _____ Email: cmagpantay@candesconsults.com

COMMENCEMENT OF WORK

The UAO and/or Utility Builder shall commence actual construction in good faith within sixty (60) calendar days after approval of the permit application. If the beginning date is more than sixty (60) calendar days from the date of approval, the UAO and/or Utility Builder must review the permit with the FDOT Approving Engineer listed to make sure no changes have occurred to the transportation facility that would affect the permit's continued approval. The UAO and/or Utility Builder shall make good faith efforts to expedite the work and complete the work within the calendar days indicated.

Anticipated Start Date: 11/30/2020

Calendar days needed to completed: 270

Approved
2020-H-294-00451
Anonymous User
6/24/2020

UTILITY PERMIT

PERMIT NO: 2020-H-294-00451

APPLICANT SIGNATURE

By the below signature(s) the UAO and/or Utility Builder agree(s) to construct, operate, and maintain the work as noted in the above Work Description, shown in plans and incorporated documents, in compliance with the UAM, all instructions noted in the FDOT Special Instructions Box, and special instructions incorporated into this permit. The UAO and/or Utility Builder declares, the location of all existing utilities that it owns or has an interest in, both aerial and underground, are accurately shown on the plans of the work areas. In accordance with UAM Section 2.8, the UAO and/or Utility Builder further declares that a letter of notification was delivered to the owners of other facilities within the work areas and that those listed below are the only facility owners known to be involved or potentially impacted by the proposed work.

Date Notified:

7/9/2019

Name of other facility owners (attach additional sheets if necessary).

All known utilities within project area

Utility Agency/Owner

Signature: ELIZABETH DIMEO (digital signature) Date: 6/11/2020

Name (printed): ELIZABETH DIMEO

Title: _____

Utility Builder (when applicable)

Signature: _____ Date: _____

Name (printed): _____

Title: _____

FDOT PROJECT INFORMATION

Pursuant to UAM Section 2.1(10), the utility work is within FDOT projects listed below and must have a Utility Work Schedule for each project approved prior to commencement of work within the FDOT project limits:

There are NO FDOT constructions (proposed or underway).

This work is NOT related to an approved utility work Schedule.

FDOT SPECIAL INSTRUCTIONS

In accordance with UAM Section 2.7, FDOT incorporates the below and attached special instructions into this permit.

* **Contact Richard Harvey, Maintenance Manager Permits at (904) 360-5376, a minimum of two (2) business days prior to starting work within FDOT Right of way to schedule a pre-construction meeting. Be advised that a pre-construction meeting must be held with an FDOT inspector prior to any work commencing within FDOT Right of way.**

* **Provide all communication and documents to Richard Harvey, Maintenance Manager Permits at (904) 360-5376 / richard.harvey@dot. ... (see special instructions**

Additional FDOT Special Instructions are attached and incorporated into this permit. Yes ☐ No ☒

PERMIT APPROVAL

By signature below, FDOT gives permission to the UAO and/or Utility Builder to construct, operate, and maintain the utilities indicated in this Utility Permit in compliance with the UAM, all incorporated documents, and special instructions. Any changes to the approved work must be approved by the FDOT's Approving Engineer and attached and incorporated into this permit in accordance with UAM Section 2.11.

Approving Engineer: Anonymous User (digital signature) Date: 6/24/2020

Name: Anonymous User

Title: _____

Notification of Utility Work to be provided to: Telephone (904) 360-5462 ext. _____ or Email: richard.harvey@dot.state.fl.us

An FDOT Representative is required to be present on the worksite prior to commencement of work. Yes ☒ No ☐

Rep. Name: Richard Harvey Telephone 9043605462 Email: richard.harvey@dot.state.fl.us

2020-H-294-00451
Anonymous User
6/24/2020

Florida Department of Transportation
UTILITY PERMIT

December 14, 2016

PERMIT NO: 2020-H-294-00451

CERTIFICATION

I, the undersigned UAO and/or Utility Builder, hereby CERTIFY that the utilities were constructed and inspected in compliance with the UAM all incorporated documents, and special instructions. Pursuant to UAM Section 2.11, all changes have been approved by the FDOT's Approving Engineer and incorporated into this permit along with all other material certifications, test results, bore logs, approved plans changes, as-built plans or other required documentation.

I also CERTIFY that work began on _____ and was completed on _____ and that the area was left in as good or better condition than when the work began.

Utility Agency/Owner

Utility Builder (when applicable)

Signature: _____ Date _____

Signature: _____ Date _____

Name (printed): _____

Name (printed): _____

Title: _____

Title: _____

FINAL INSPECTION OF WORK

☐ The work was inspected and found to be in non-compliance as noted below:

☐ All issues of non-compliance listed above have been brought into compliance and/or FDOT has no outstanding issues that need to be addressed by the UAO and/or Utility Builder. However, this final inspection does not release the UAO and/or Utility Builder of their continuing responsibilities pursuant to Rule 14-46.001, the UAM, all incorporated documents, and special instructions.

FDOT Inspector: _____ Date: _____

Name: _____

Title: _____

Approved
2020-H-294-00451
Anonymous User
6/24/2020

PERMIT NO.: 2020-H-294-00451

STATE ROAD INFORMATION:

Duval SR 9A, Section: 72001000, Begin MP: 35.511, End MP: 35.511, Duval SR 111, Section: 72291000, Begin MP: 11.875, End MP: 11.875, Duval 103, Begin MP: 0, End MP: 0

NAME OF OTHER FACILITY OWNERS / DATE NOTIFIED:

FDOT PROJECT INFORMATION:

There are NO FDOT constructions (proposed or underway).
This work is NOT related to an approved Utility Work Schedule.

THE WORK WAS INSPECTED AND FOUND TO BE IN NON-COMPLIANCE AS NOTED BELOW:

Approved
2020-H-294-00451
Anonymous User
6/24/2020

The complete special instructions could not fit in the space allotted on Page 2 of the Utility Permit so they are displayed below.

Special FDOT Instructions

- * Contact Richard Harvey, Maintenance Manager Permits at (904) 360-5376, a minimum of two (2) business days prior to starting work within FDOT Right of Way to schedule a pre-construction meeting. Be advised that a pre-construction meeting must be held with an FDOT inspector prior to any work commencing within FDOT Right of Way.
- * Provide all communication and documents to Richard Harvey, Maintenance Manager Permits at (904) 360-5376 / richard.harvey@dot.state.fl.us
- * Provide as built plans after permit project completion.
- * Any disturbed areas will be restored with sod or like material immediately.
- * Any disturbed sidewalk will be restored to original or better condition within 24 hours.
- * Any lane closure request will require 2 weeks' notice for approval and may be restricted to night work only.
- * No Hay Bales for erosion or sedimentation controls are allowed in the FDOT Right of Way.
- * All direction boring will be in accordance with FDOT Specification 555 latest edition.
- * Complete HDD Bore Log and submit upon completion.

Approved
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Anonymous User
6/24/2020

CONSTRUCTION DRAWINGS
FOR
5TH STREET WEST - 20" FORCE MAIN EXTENSION
PREPARED FOR:



JEA PROJECT NO.: 8004781
MM PROJECT NO.: 502402368
PERMIT SUBMITTAL

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/standbuild/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) 255-4572
<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) 825-5036 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.csg.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
2000 Blair Stone Road
Tallahassee, Florida 32399-2400
(866) 336-6312
<http://www.dep.state.fl.us/water/stormwater/npdes/>

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

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

FIRE MARSHALL

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

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

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

LANDSCAPE

A Site Work Permit is required for this project.

☐ Tree Fund payment is due: _____ inches at \$ _____ = \$ _____
☐ Article 25 funds are due: _____ inches at \$ _____ = \$ _____

TRAFFIC ENGINEERING

TRAFFIC SIGNS

Metro Name (each) _____

Standard (each) _____

Stop/Yield (each) _____

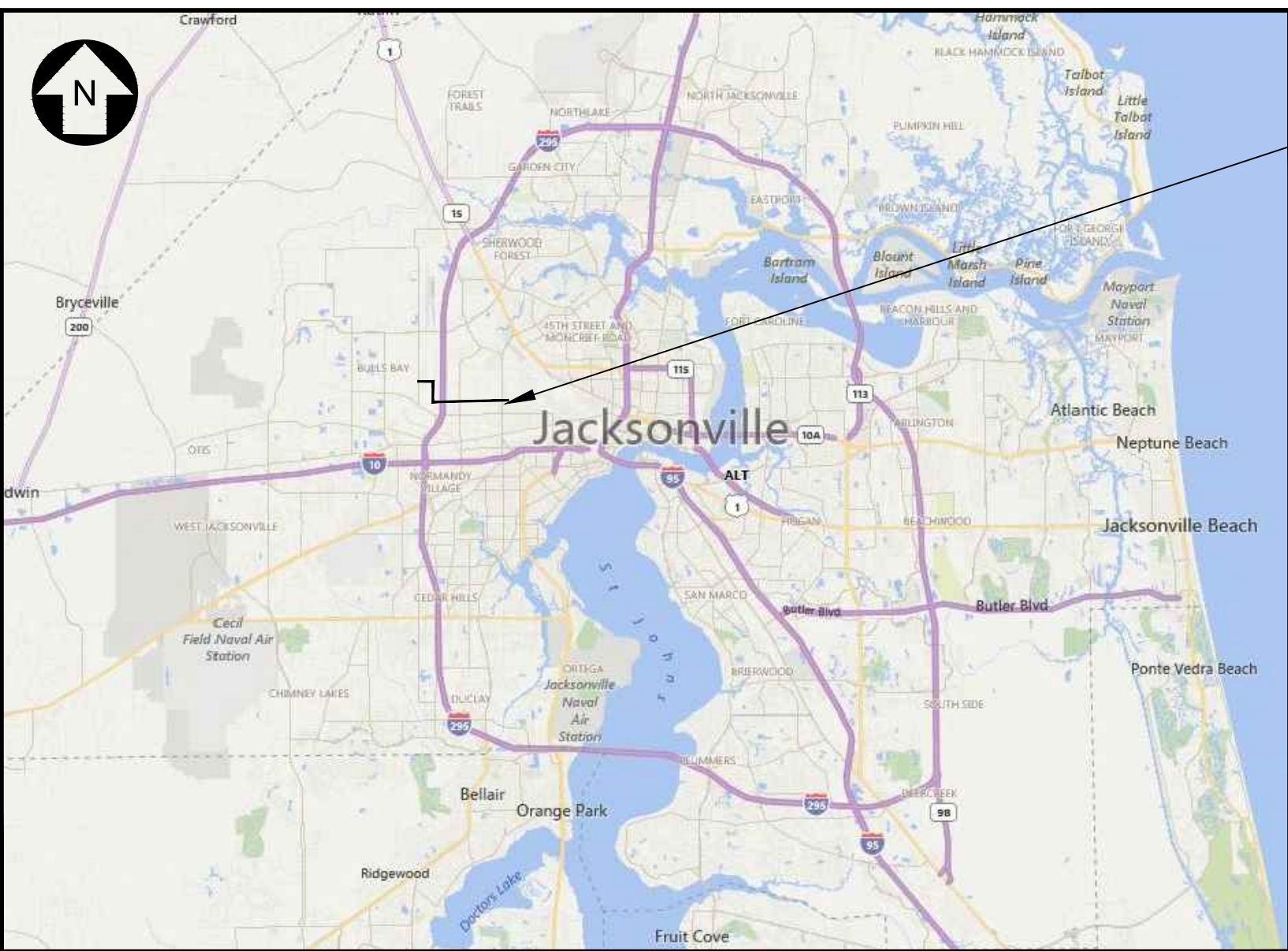
Design (per plat) 1 per plat

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

_____ Streetlights Required

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

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



PROJECT LOCATION

LOCATION MAP

SCALE: NTS

M M

MOTT
MACDONALD

Mott MacDonald Florida, LLC

Architects Engineers Surveyors
AA - C0000035 EB - 0000155 LB - 0006783
10245 Centurion Pkwy. N., Suite 320
Jacksonville, Florida 32256
Telephone: (904) 203-1090

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 4161.285
Concurrency Application Number N/A
Property Appraiser Number (RE #) *
Zoning Designation _____

Zoning Application(s) (if any) N/A

PUD Ordinance Number _____
FIRM - Community - Panel -

Flood Zones (Show in Plans) _____
Base Flood Elev. (Show in Plans) _____
Vertical Datum Used for Project NAVD 1988
JEA Availability Number -

SUBDIVISION

PSD Number N/A
City or Private Inspection N/A
Public or Private Roads N/A
Subdivision ("911") Disk Provided? N/A

NON-SUBDIVISION

North American Industry Classification System (NAICS) 23711
Impervious Area (Sq. Ft.) _____

Xrefs Attached= JEA_SHT22x34_BOR [:\d0426985\JEA_SHT22x34_BOR.dwg]

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NOT APPLICABLE
APPLICABLE

SURVEY AND LOCATE DATA:

- ☐ ☒
1.

ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM AND SHOWN IN FEET.
- ☒ ☐
2.

ELEVATIONS ARE BASED ON N.G.V.D. 1929.
- ☐ ☒
3.

LOCATION OF EXISTING UTILITIES OBTAINED BY SOFT DIG LOCATES WHERE SHOWN ON PLANS, OR INCLUDED WITH BID SPECS.
- ☐ ☒
4.

EXISTING WATER AND SEWER LINES ARE SHOWN AS PER FIELD LOCATES OR SUPPLEMENTED WITH 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 NORTH RIM 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: NAVD 88 SEE SURVEYORS NOTES

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 FLORIDA DEPARTMENT OF TRANSPORTATION, CSX 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, LATEST EDITION, CSX RAILROAD 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 FDOT, CSX AND COJ 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 HORIZONTAL DIRECTIONAL DRILLING AND JACK AND AUGER BORE 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.

NOTE:

JEA STANDARD DRAWINGS AND DETAILS ARE APPLICABLE FOR ALL PROJECTS, INCORPORATED BY REFERENCE AND ARE AVAILABLE AT JEA.COM/WORKING_WITH_JEA/ENGINEERING_AND_CONSTRUCTION/REFERENCE_MATERIALS

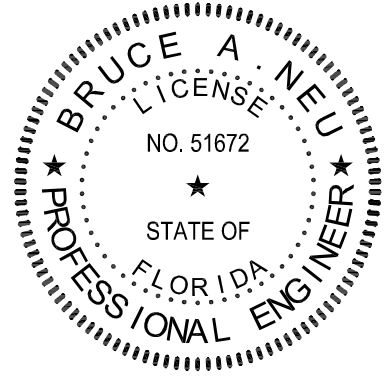
NOTE:

COJ STANDARD DRAWINGS AND DETAILS ARE APPLICABLE FOR ALL PROJECTS, INCORPORATED BY REFERENCE AND ARE AVAILABLE AT UPON REQUEST FROM COJ - PLANNING AND DEVELOPMENT SERVICES DIVISION

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

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

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15.23.004, F.A.C. G-1 TO G-6, C-1 TO C-35, CD-1 TO CD-12



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 DIVISIONS.
2.

THE CONTRACTOR SHALL RESTORE/REPLACE ALL CULVERTS, HEADWALLS AND STORM DRAIN INLETS REMOVED OR DISTURBED BY THE CONSTRUCTION OPERATION IN ACCORDANCE WITH FDOT AND COJ STANDARDS.
3.

TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION IN ACCORDANCE WITH FDOT AND CITY OF JACKSONVILLE STANDARD SPECIFICATIONS.
4.

SIDEWALKS, DRIVEWAYS AND CURBING DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH CITY OF JACKSONVILLE OR FDOT STANDARD SPECIFICATIONS AS REQUIRED. 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, CSX RAILROAD, AND FDOT STANDARD DETAILS AND SPECIFICATIONS LATEST EDITION.
7.

UNLESS OTHERWISE NOTED, REMOVE AND REPLACE EXISTING PAVEMENT AS PER C.O.J. CASE X (10) AND C.O.J. PAVEMENT REPLACEMENT DETAIL.
8.

CONTRACTOR MUST MAINTAIN AND PRESERVE NEWLY GRADED AREAS AND REPAIR AREAS WHERE SETTLING AND EROSION HAVE OCCURRED.

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 _____ 904-387-8861
F. FLORIDA DEPT. OF TRANSPORTATION _____ 904-826-5036
G. JEA - WATER COLLECTION & DISTRIBUTION - RANDY ELLIS _____ 904-665-7133
H. JEA - SEWER COLLECTION & DISTRIBUTION - NATHANIAL ROUSE _____ 904-665-8183
I. JEA - GENERAL INFORMATION _____ 904-665-6000
J. JEA - PROJECT OUTREACH _____ 904-665-7500
K. JEA - POWER OUTAGES _____ 904-665-6000
L. JEA - SEWER PROBLEMS _____ 904-665-4802
M. JEA - WATER PROBLEMS _____ 904-665-4801
N. JEA - WATER & SEWER LOCATES _____ 904-665-8410
O. COMCAST - EMERGENCY HOTLINE _____ 904-380-6274
P. JACKSONVILLE TRANSIT AUTHORITY (JTA) - IVAN MITCHELL _____ 904-633-8523
Q. TECO/PEOPLES GAS - BEN MOBLEY _____ 904-545-8958
R. SUNSHINE ONE CALL _____ 811
S. FDOT - ITS - FOC - JOSH REICHERT _____ 904-360-5642
T. JEA ENVIRONMENTAL GROUP _____ 904-665-4517
U. COJ TRAFFIC MOT - RONNIE THIGPEN _____ 904-255-8704
V. COJ TRAFFIC SIGNALS - CARLTON COPELAND _____ 904-255-7552
W. FLORIDA GAS TRANSMISSION - JACOB WALLACE _____ 325-494-0028
X. FLORIDA POWER AND LIGHT - ROB HELFER _____ 904-824-7617
Y. ST JOHNS COUNTY - RIGHT-OF-WAY PERMITTING - RICK MAULDIN _____ 904-209-0134
Z. ST JOHNS COUNTY - TRAFFIC SIGNALS - HANK MEIN _____ 904-209-0173
AA. CSX - GENERAL NUMBER _____ 904-359-3100

NOT APPLICABLE
APPLICABLE

- ☒ ☐
1.

CONTRACTOR TO REHABILITATE ALL MANHOLES ON PIPE BURST SEWERS VIA COATING/LINING PER JEA SPECIFICATION 446-2, UNLESS OTHERWISE NOTED ON THE PLANS.
- ☒ ☐
2.

CONTRACTOR TO RENEW, REHABILITATE, REPLACE OR REINSTALL AS APPLICABLE ALL SERVICE LATERALS TO R.O.W. LINE.
- ☒ ☐
3.

CONTRACTOR TO INSTALL SEWER SERVICE PIPING A MINIMUM OF 60 INCHES BELOW GRADE. WHERE NEW SANITARY SEWER MAIN IS LESS THAN 5 FEET DEEP, THE SEWER SERVICE PIPE SHALL BE INSTALLED AS DEEP AS POSSIBLE.
- ☐ ☒
4.

WHEN THE DISTANCE BETWEEN A POWER POLE AND THE TRENCH IS LESS THAN THE TRENCH DEPTH, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH JEA ELECTRICAL PERSONNEL TO SECURE POWER POLES. THE CONTACTS FOR JEA ARE AS FOLLOWS:
NORTHSIDE-EAST of US-1 MIKE CORBITT @ 665-7991 (mobile 662-0635)
NORTHSIDE-WEST of US-1 ANDY YEAGER @ 665-7998 (mobile 662-0622)
NORTHSIDE-BACKUP ALAN AINSLEY @ 665-7303 (mobile 662-6557)
SOUTHSIDE-SOUTH of BEACH BLVD. TOM KERNS @ 665-8847 (mobile 860-1687)
SOUTHSIDE-NORTH of BEACH BLVD. DERYL BASFORD @ 665-8855 (mobile 662-0616)
SOUTHSIDE-BACKUP EDDIE GALES @ 665-8855 (mobile 662-0616)
A MINIMUM OF TWO (2) WORKING DAYS NOTICE IS REQUIRED FOR AN OUTSIDE MEETING WITH JEA ELECTRICAL TO DISCUSS THE REQUIRED WORK. ADDITIONAL TIME WILL BE REQUIRED BY JEA ELECTRICAL FOR ANY REQUIRED WORK TO BE ACCOMPLISHED.
- ☒ ☐
5.

ALL NEW STORM DRAIN PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.
- ☐ ☒
6.

THE DESIGN FOR THE PROJECT IS BASED UPON THE 'OPEN-CUT' METHOD OF CONSTRUCTION. IF USING ALTERNATIVE MEANS OR METHODS, THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE STANDARDS FOR THAT MEANS OR METHOD.
- ☒ ☐
7.

THE CONTRACTOR SHALL MINIMIZE SERVICE INTERRUPTIONS AT SERVICE CONNECTIONS. THE MEANS AND METHODS SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. NO EXISTING ACTIVE SERVICE SHALL BE LEFT INTERRUPTED AT THE END OF THE WORK DAY.
- ☐ ☒
8.

CONTRACTOR SHALL PROVIDE ADDITIONAL CORPORATION STOPS FOR FILLING AND DRAINING PURPOSES DURING CONSTRUCTION AS NEEDED. CORPORATION STOPS ARE TO BE PLUGGED AND LEFT IN PLACE. INDICATE CORPORATION STOP LOCATIONS ON RECORD DRAWINGS (AS-BUILTS).
- ☒ ☐
9.

WATER AND SEWER SERVICES SHALL BE TRANSFERRED TO THE NEW MAIN UPON COMPLETION AND F.D.E.P./J.E.A. CERTIFICATION, AND PRIOR TO THE EXISTING MAINS BEING ABANDONED.
- ☐ ☒
10.

IF EXISTING VALVES ARE IN UNPAVED AREAS AND ARE TO BE TAKEN OUT OF SERVICE, THEY SHALL BE CLOSED AND THE VALVE BOX AND COVER SHALL BE REMOVED. IF THE VALVES ARE UNDER PAVED AREAS, THEY SHALL BE CLOSED, THE VALVE BOX GROUT FILLED AND THE COVER REMOVED.
- ☐ ☒
11.

CONTRACTOR SHALL REPLACE EXISTING WATER METER BOXES WHEN DEEMED NECESSARY BY THE JEA INSPECTOR.
- ☐ ☒
12.

CONTRACTOR TO PROVIDE ADDITIONAL DEPTH OF BURY VIA PIPE JOINT DEFLECTION TO ACCOMMODATE VALVE SELECTION PER JEA STANDARDS. PIPE DEFLECTION SHALL BE NO MORE THAN 80% OF MANUFACTURER'S RECOMMENDATION PER JEA STANDARDS.
- ☒ ☐
13.

WATER METERS MAY REQUIRE RELOCATION FOR CONSTRUCTION, CONTRACTOR SHALL CONTACT JEA METER DEPARTMENT AND RELOCATE WATER METERS AS NECESSARY.
- ☐ ☒
14.

PRIOR TO COMMENCING ANY EXCAVATION OR GRADING, THE CONTRACTOR SHALL OBTAIN ALL GEOTECHNICAL AND TOPOGRAPHIC SURVEY DATA AND LOCATIONS OF ABOVE GROUND AND UNDERGROUND UTILITIES. SHOULD THE CONTRACTOR DISCOVER ANY INACCURACIES, ERRORS OR OMISSIONS IN THE SURVEY DATA, HE SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER IN ORDER THAT PROPER ADJUSTMENTS CAN BE ANTICIPATED AND ORDERED.
- ☐ ☒
15.

SHEET PILING WILL BE REQUIRED ON ALL EXCAVATIONS DEEPER THAN 16 FEET.

DRAWING INDEX			DRAWING INDEX		
SHEET No.	DWG No.	NAME	SHEET No.	DWG No.	NAME
		COVER	79	TTC-25	TEMPORARY TRAFFIC CONTROL DETAILS - FDOT INDEX 102 - 603
1	G-1	JEA GENERAL NOTES AND SHEET INDEX	80	TTC-26	TEMPORARY TRAFFIC CONTROL DETAILS - FDOT INDEX 102 - 604
2	G-2	ABBREVIATIONS, GENERAL LEGEND & SYMBOLS	81	TTC-27	TEMPORARY TRAFFIC CONTROL DETAILS - FDOT INDEX 102 - 605
3	G-3	SHEET KEY PLAN	82	TTC-28	TEMPORARY TRAFFIC CONTROL DETAILS - FDOT INDEX 102 - 660
4	G-4	SHEET KEY PLAN			
5	G-5	SHEET KEY PLAN			
6	G-6	PROJECT SCOPE AND LAYOUT			
7	C-1	STA 0+00 TO STA 5+00			
8	C-2	STA 5+00 TO STA 10+00			
9	C-3	STA 10+00 TO STA 15+00			
10	C-4	STA 15+00 TO STA 20+00			
11	C-5	STA 20+00 TO STA 25+00			
12	C-6	STA 25+00 TO STA 29+50			
13	C-7	STA 29+50 TO STA 34+50			
14	C-8	STA 34+50 TO STA 38+00			
15	C-9	STA 38+00 TO STA 43+00			
16	C-10	STA 43+00 TO STA 48+00			
17	C-11	STA 48+00 TO STA 53+00			
18	C-12	STA 53+00 TO STA 58+00			
19	C-13	STA 58+00 TO STA 63+00			
20	C-14	STA 63+00 TO STA 68+00			
21	C-15	STA 68+00 TO STA 73+00			
22	C-16	STA 73+00 TO STA 78+00			
23	C-17	STA 78+00 TO STA 83+00			
24	C-18	STA 83+00 TO STA 88+00			
25	C-19	STA 88+00 TO STA 93+00			
26	C-20	STA 93+00 TO STA 98+00			
27	C-21	STA 98+00 TO STA 103+00			
28	C-22	STA 103+00 TO STA 108+00			
29	C-23	STA 108+00 TO STA 113+00			
30	C-24	STA 113+00 TO STA 118+00			
31	C-25	STA 118+00 TO STA 123+00			
32	C-26	STA 123+00 TO STA 128+00			
33	C-27	STA 128+00 TO STA 133+00			
34	C-28	STA 133+00 TO STA 138+00			
35	C-29	STA 138+00 TO STA 143+00			
36	C-30	STA 143+00 TO STA 148+00			
37	C-31	STA 148+00 TO STA 153+00			
38	C-32	STA 153+00 TO STA 158+00			
39	C-33	STA 158+00 TO STA 163+00			
40	C-34	STA 163+00 TO STA 167+65			
41	C-35	STA 167+65 TO STA 170+00			
42	CD-1	STANDARD CIVIL DETAILS			
43	CD-2	STANDARD CIVIL DETAILS			
44	CD-3	STANDARD CIVIL DETAILS			
45	CD-4	STANDARD CIVIL DETAILS			
46	CD-5	STANDARD CIVIL DETAILS			
47	CD-6	STANDARD CIVIL DETAILS			
48	CD-7	STANDARD CIVIL DETAILS			
49	CD-8	STANDARD CIVIL DETAILS			
50	CD-9	STANDARD CIVIL DETAILS			
51	CD-10	STANDARD CIVIL DETAILS			
52	CD-11	DUAL 12-INCH FORCEMAIN CONNECTION			
53	CD-12	STANDARD CIVIL DETAILS			
54	GS-1	TEMPORARY TRAFFIC CONTROL NOTES AND LEGEND			
55	TTC-1	TEMPORARY TRAFFIC CONTROL - KEY MAP			
56	TTC-2	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 1 TO 4			
57	TTC-3	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 5 TO 6			
58	TTC-4	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 6 TO 7			
59	TTC-5	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 7 TO 7A			
60	TTC-6	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 7A TO 9			
61	TTC-7	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 9 TO 11			
62	TTC-8	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 11 TO 13			
63	TTC-9	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 13 TO 16			
64	TTC-10	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 16			
65	TTC-11	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 16 TO 18			
66	TTC-12	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 18			
67	TTC-13	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 18 TO 20			
68	TTC-14	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 20 TO 22			
69	TTC-15	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 22			
70	TTC-16	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 22 TO 24			
71	TTC-17	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 7A DETOUR			
72	TTC-18	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 8 DETOUR			
73	TTC-19	TEMPORARY TRAFFIC CONTROL PLAN - WORK ZONE 10 & 12 DETOUR			
74	TTC-20	TEMPORARY TRAFFIC CONTROL PLAN WORK ZONE 19 DETOUR			
75	TTC-21	TEMPORARY TRAFFIC CONTROL PLAN WORK ZONE 21 DETOUR			
76	TTC-22	TEMPORARY TRAFFIC CONTROL PLAN WORK ZONE 23 DETOUR			
77	TTC-23	TEMPORARY TRAFFIC CONTROL PLAN WORK ZONE 24 DETOUR			
78	TTC-24	TRAFFIC FLOW PLAN AT SCHOOLS - WORK ZONES 22, 23, AND 24			

PERMIT SUBMITTAL

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MOTT
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DESIGNER		DESIGN ENGINEER		FLORIDA REGISTRATION NO.	
B. NEU	B. NEU	BRUCE A. NEU	BRUCE A. NEU	51672	51672
DRAWN BY:	DRAWN BY:	DRAWN BY:	DRAWN BY:	DRAWN BY:	DRAWN BY:
DATE:	DATE:	DATE:	DATE:	DATE:	DATE:
CHECKED BY:	CHECKED BY:	CHECKED BY:	CHECKED BY:	CHECKED BY:	CHECKED BY:
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NO. SHEETS	PROJ. NO.	DATE:	SCALE:	NTS	NTS
82	502402368	MAY 2020	1	1	1
SHEET NO.	SHEET NO.	SHEET NO.	SHEET NO.	SHEET NO.	SHEET NO.
1	1	1	1	1	1
DRAWING NO.	DRAWING NO.	DRAWING NO.	DRAWING NO.	DRAWING NO.	DRAWING NO.
G-1	G-1	G-1	G-1	G-1	G-1

JEA
Building Community

5TH STREET WEST 20" FORCE MAIN EXTENSION
JEA GENERAL NOTES AND SHEET INDEX

THE CONTRACTOR SHALL CONTACT THE LOCAL PUBLIC UTILITIES LOCATING SERVICE TO LOCATE UTILITIES IN THE AREA PRIOR TO ANY EXCAVATION. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, WHETHER SHOWN OR NOT, AND FOR REPAIRING ALL DAMAGE TO UTILITIES.

DISTURBANCE SHALL BE LIMITED TO THE TEMPORARY CONSTRUCTION EASEMENTS AND PERMANENT FDOT, CSX, AND COJ RIGHT OF WAYS. IF TRAVEL LANES ARE DAMAGED DURING CONSTRUCTION IN FDOT AND COJ ROW, REMOVAL AND REPLACEMENT OF FRICTION COURSE MAY BE REQUIRED.

THE CONTRACTOR IS RESPONSIBLE FOR PROCURING ALL MOBILIZATION, STORAGE, AND STAGING AREAS AS WELL AS ACCESS TO THE CONSTRUCTION SITES WITHIN THE TEMPORARY AND PERMANENT RIGHT OF WAYS. EROSION CONTROL DEVICES AND BEST MANAGEMENT PRACTICES SHALL BE INSTALLED AND MAINTAINED AT ALL WORK SITES AND STAGING AREAS. THE CONTRACTOR SHALL FOLLOW ALL LOCAL GUIDELINES AND REGULATIONS REGARDING THE WORK, INCLUDING KEEPING MUD AND DIRT OFF PUBLIC ROADS AND PRIVATE ENTRANCES.

SOIL EXPLORATION WORK WAS PERFORMED BY MESKEL AND ASSOCIATES ENGINEERING OF JACKSONVILLE FLORIDA (MAE PROJECT No. 0103-0018). SOILS EXPLORATION WORK IS SOLELY TO ASSIST BIDDERS IN ASSESSING THE NATURE AND EXTENT OF TESTING PROCEDURES REQUIRED TO MAKE THEIR OWN DETERMINATION OF ACTUAL SUBSURFACE CONDITIONS THAT WILL BE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION. NO REPRESENTATION IS MADE OR WILL BE GIVEN BY THE ENGINEER CONCERNING ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED. ALL BIDDERS ARE DIRECTED PRIOR TO BIDDING TO CONDUCT ALL INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING SUCH CONDITIONS.

ALL OPEN ENDS OF PIPE SHALL BE SECURED TO PREVENT WATER INTRUSION AND ENTRY AT THE END OF EACH WORK DAY.

ALL AREAS WITH OPEN EXCAVATIONS, OPEN VAULTS OR MANHOLES, OR EQUIPMENT SHALL BE FENCED WITH TEMPORARY SECURE FENCING AT LEAST FOUR FEET HIGH OR CLOSED AT THE END OF EACH WORK DAY. NO OPEN HOLES, VAULTS, EXCAVATIONS, ETC. SHALL BE ALLOWED TO BE LEFT OPEN DURING NON-WORKING HOURS WITHIN COJ AND FDOT RIGHT OF WAY.

ANY PUBLIC LAND CORNER, PROPERTY MONUMENTATION, OR BENCH MARK WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A MONUMENT IS IN DANGER OF BEING DESTROYED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. ANY CORNER MONUMENT DISTURBED OR DESTROYED SHALL BE RESET BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL IMPLEMENT ONLY MAINTENANCE OF TRAFFIC SPECIFIED BY THE ENGINEER.

THE CONTRACTOR SHALL CONTACT THE ENGINEER OR OWNER IMMEDIATELY SHOULD ANY ISSUE BETWEEN CONSTRUCTION AND THE DRAWINGS ARISE. THE CONTRACTOR SHALL ADHERE TO ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS THAT HAVE BEEN OBTAINED. SHOULD ANY ISSUES BETWEEN CONSTRUCTION AND THE DRAWINGS ARISE IN FDOT, COJ, OR CSX ROW, THE CONTRACTOR SHALL ALSO CONTACT THE FDOT, COJ, OR CSX, RESPECTIVELY. PRIOR TO ANY DEVIATIONS FROM THE CONSTRUCTION DRAWINGS.

FOR ALL IT'S PIPING, CROSSINGS, CONNECTING MANHOLES, OR VALVES, THE CONTRACTOR SHALL VERIFY ALL EXISTING PIPELINE ELEVATIONS, LOCATIONS, DIAMETERS, AND MATERIALS PRIOR TO SHOP DRAWING SUBMITTALS, NOTIFYING THE ENGINEER OF ANY CONFLICTS.

ALL DRIVEWAYS, DRAINAGE PIPES, AND HEADWALLS SHALL BE RESTORED TO EQUAL OR BETTER THAN EXISTING CONDITION IN BOTH NEW AND EXISTING RIGHT OF WAYS AND WITHIN ANY TEMPORARY EASEMENT AREAS IN ACCORDANCE WITH FDOT AND COJ STANDARDS. ANY STRUCTURES OR DRIVEWAYS DISTURBED OUTSIDE OF THE RIGHT OF WAY SHALL BE FULLY RESTORED AT NO COST TO THE PROPERTY OWNER.

THE CONTRACTOR SHALL LOCATE AND PROTECT ALL WATER AND SEWER LATERALS SERVICING RESIDENTS AND BUSINESSES THROUGHOUT CONSTRUCTION.

WHEN EXCAVATED MATERIALS ARE PLACED ON ROADWAY SURFACES, THE CONTRACTOR SHALL PLACE SAND OR STONE SCREENING UNDERNEATH THE EXCAVATED MATERIALS AND SHALL REMOVE SAID MATERIALS AND SWEEP CLEAN ALL RESIDUES FROM THE SURFACES DAILY.

THE CONTRACTOR SHALL PROVIDE AN ACCESS CORRIDOR FOR EMERGENCY SERVICES AT ALL TIMES.

THE CONTRACTOR SHALL PROVIDE 24 HOURS NOTICE TO TECO GAS PRIOR TO WORK WHICH MAY IMPACT GAS MAINS.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CLEAN AND EFFICIENT OPERATIONS OF ALL STORM WATER CONVEYANCE STRUCTURES IN THE AREA IMPACTED BY CONSTRUCTION. THE CONTRACTOR SHALL ENSURE THAT THE CONVEYANCE CAPACITY OF THE STORM WATER INFRASTRUCTURE IS MAINTAINED TO AVOID FLOODING. THE CONTRACTOR SHALL INSTALL STABILIZED CONSTRUCTION ENTRANCES AS DIRECTED BY THE ENGINEER AT LOCATIONS WHERE VEHICULAR TRAFFIC PASSES FROM DISTURBED AREAS TO UNDISTURBED AREAS. THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL MEASURES DESIGNATED BY THE ENGINEER OR BY THE CONTRACTOR'S RECOMMENDATION.

THE CONTRACTOR SHALL IMPLEMENT EROSION CONTROL MEASURES IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL STORM WATER EROSION CONTROL PERMITS AND STANDARDS FOR ALL LAND DISTURBANCES NOT SHOWN IN THESE DRAWINGS.

PAVEMENT, DRIVEWAYS AND SIDEWALKS SHALL BE REMOVED BY FULL DEPTH SAW CUTTING IN STRAIGHT LINES.

BORING LOCATIONS SHOWN ON THE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY FOR THE CONTRACTORS CONVENIENCE. GEOTECHNICAL DATA SHALL BE GOVERNED BY THE GEOTECHNICAL REPORT PREPARED BY MESKEL AND ASSOCIATES ENGINEERING (MAE PROJECT No. 0103-0018).

THE CONTRACTOR SHALL REFERENCE SECTIONS 5.2 AND 5.4 OF THE GEOTECHNICAL REPORT PROVIDED BY MESKEL AND ASSOCIATES ENGINEERING FOR DETAILS ON POTENTIAL GROUND WATER FLUCTUATIONS (MAE PROJECT No. 0103-0018).

JEA WATER AND WASTEWATER STANDARDS MANUAL, LATEST EDITION, AS REVISED, SHALL BE THE GOVERNING SPECIFICATION FOR ALL MATERIALS AND METHODS REQUIRED FOR INSTALLATION OF THIS WATER MAIN AND SHALL SUPERSEDE ALL CONFLICTING RECOMMENDATIONS UNLESS EXPLICITLY STATED BY THE OWNER (JEA) OR AN AUTHORIZED OWNERS REPRESENTATIVE.

WORK WITHIN THE FDOT, CSX AND COJ ROW IS WITHIN CONGESTED UTILITY CORRIDORS. THE CONTRACTOR WILL BE REQUIRED TO LOCATE AND SUPPORT ANY EXISTING UTILITIES WITHIN THE OPEN CUT TRENCH OR PIT AREA FOR INSTALLATION VIA HDD OR JACK AND AUGER BORE.

ANY CONSTRUCTION IN FDOT, CSX AND COJ RIGHT OF WAY WILL REQUIRE A RIGHT OF WAY PERMIT. THE CONTRACTOR IS RESPONSIBLE FOR CALLING 904-255-8366 DAILY FROM 7:30 A.M. TO 8:30 A.M., WHEN WORKING IN COJ RIGHT OF WAY.

CAUTION: ALL UTILITY LOCATIONS ARE APPROXIMATE AND MUST BE LOCATED PRIOR TO CONSTRUCTION.

VEGETATION CLEARING WILL BE KEPT TO THE ABSOLUTE MINIMUM NECESSARY FOR CONSTRUCTION.

MATERIAL RESULTING FROM EXCAVATION WILL NOT BE PLACED IN SUCH A MANNER THAT IT IS DISPERSED BY CURRENT OR OTHER FORCES. THE MATERIAL SHOULD BE COLLECTED AND CONTAINED AT ONE SITE AS APPROPRIATE.

HEAVY EQUIPMENT WORKING IN WETLANDS WILL BE PLACED ON MATS OR LOW GROUND PRESSURE EQUIPMENT USED DURING CONSTRUCTION TO LIMIT SOIL DISTURBANCE TO THE MINIMUM AREA REQUIRED TO INSTALL THE UTILITY.

NO STAGING AREAS OR TEMPORARY ACCESS ROADS WILL BE PLACED IN WETLANDS

APPROPRIATE SITUATION AND EROSION CONTROLS WILL BE USED AND MAINTAINED IN EFFECTIVE OPERATING CONDITION DURING CONSTRUCTION, AND ALL EXPOSED SOIL AND FILLS WILL BE PERMANENTLY STABILIZED AT THE EARLIEST PRACTICABLE DATE.

SEDIMENT CONTROL FENCE (SILT FENCE) SHOULD BE INSTALLED AND MAINTAINED FOR THE DURATION OF THE CONSTRUCTION. SILT FENCE WILL BE INSTALLED ALONG AND WITHIN THE RIGHT-OF-WAY LINE (12 FT. AWAY FROM THE EDGE OF THE RIGHT-OF-WAY), IF A BODY OF WATER OR POTENTIAL WETLAND IS LOCATED WITHIN 60 FT. FROM THE EDGE OF THE RIGHT-OF-WAY. ANY OTHER SITUATIONS WILL BE APPROVED BY ENGINEER.

WHEN CONSTRUCTING IN WETLANDS, THE TOP 6 TO 12 INCHES OF THE TRENCH WILL BE BACK FILLED WITH TOP SOIL FROM THE TRENCH.

EXCESS MATERIAL WILL BE REMOVED FROM THE WETLAND AND PLACE ON UPLAND AREAS IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.

EXPOSED SLOPES OF STREAM BANKS WILL BE RESTORED TO THEIR ORIGINAL CONTOURS AND STABILIZED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.

ANY TEMPORARY FILLS MUST BE REMOVED IN THEIR ENTIRETY AND THE AFFECTED AREAS RETURNED TO THEIR PRE-EXISTING ELEVATION.

ANY DISTURBED AREA WILL BE RESEDED WITH NATIVE GRASS SEED, AND SEDIMENT CONTROL FENCE SHOULD BE REMOVED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.

WHEN CONSTRUCTING IN CITY LIMITS, ALL ROADWAY DRAINS, SUCH AS INLETS NEAR CURBS OR DROP INLETS ON ROADWAYS WHICH ARE LOCATED WITHIN THE RIGHT-OF-WAY, SHALL BE PROTECTED WITH TYPICAL INLET SEDIMENT FILTERS. THESE FILTERS WILL BE REMOVED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.

ALL CABLE MARKERS TO BE PLACED AS FAR BACK TO RIGHT-OF-WAY LINE AS POSSIBLE.

ALL WORK PERFORMED WITHIN THE FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY SHALL CONFORM TO THE MOST CURRENT EDITION OF THE FOLLOWING PUBLICATIONS:

- a. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (ENGLISH).
- b. FDOT STANDARDS INDEX (ENGLISH)
- c. FDOT PLANS PREP MANUAL.
- d. FDOT FLEXIBLE PAVEMENT DESIGN MANUAL FOR NEW CONSTRUCTION AND PAVEMENT REHABILITATION
- e. FDOT UTILITY ACCOMMODATION MANUAL.

SHOULD A CONFLICT ARISE BETWEEN THE DETAILS SHOWN IN THE PLANS AND THE DEPARTMENT OF TRANSPORTATION STANDARDS THE ENGINEER/ PERMITTEE SHALL IMMEDIATELY CONFER WITH THE DEPARTMENT'S ENGINEER IN ORDER TO RESOLVE THE DISCREPANCY. IN NO CASE WILL ANYTHING LESS THAN THE DEPARTMENT'S MINIMUM STANDARD BE ALLOWED.

ALL TRAFFIC STRIPING AND MARKINGS ARE TO BE LEAD-FREE, NON-SOLVENT BASED THERMOPLASTIC.

REMOVAL OF EXISTING STRIPING SHALL BE ACCOMPLISHED USING THE "HYDRO-BLAST" METHOD. IF THIS PROCESS DAMAGES/SCARS PAVEMENT, THEN THE PAVEMENT SHALL BE MILLED AND RESURFACED PER FDOT STANDARDS.

EXISTING PAVED SHOULDER SHALL BE REMOVED FULL DEPTH PRIOR TO WIDENING OF THE ROADWAY.

ALL CURB AND GUTTER AND SIDEWALK WILL BE REMOVED AND REPLACED JOINT TO JOINT.

TEMPORARY STABILIZE SIDEWALK AT END OF WORK DAY AND REOPEN. PERMANENT REPAIR WITHIN 7 DAYS. SIDEWALK REPLACEMENT FROM JOINT TO JOINT.

ALL DISTURBED AREA WITH THE DEPARTMENT OF TRANSPORTATION RIGHT OF WAY WILL BE RESTORED TO ORIGINAL OR BETTER CONDITION BY GRADING AND SODDING THE AREA DISTURBED (BERMUDA IN RURAL, CENTIPEDE IN UTILITY STRIPS).

BURNING OF MATERIAL AND/OR DEBRIS IS PROHIBITED WITHIN FDOT RIGHT-OF-WAY.

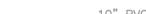
ALL LANES MUST BE OPENED FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT.

THE FDOT REGIONAL DISTRICT 2 - JACKSONVILLE OFFICE CAN BE CONTACTED AT (904) 360-5400.

JEA & FDOT INSPECTOR MUST BE ON SITE TO VERIFY VALVE PLACEMENT, LOCATION, & GRADE. (VALVES TO BE LOCATED OUTSIDE OF DITCH LINE AS TO NOT IMPEDE FUTURE MAINTENANCE OF SAID DITCHES.)

	EXISTING	PROPOSED
RIGHT OF WAY LINE	----	----
FENCE (HEIGHT & MAT'L INDICATED)	-----X 6' CHAIN LINK X-----	-----X 6' CHAIN LINK X-----
DITCH OR SWALE	~~~~~	~~~~~
SPOT ELEVATION	+ (100.00)	+ 100.00
WETLAND FLAG	 WF D-20	
IRON PIPE	○ I.P.	
CONCRETE MONUMENT	□ CM	
SOIL BORING AT PROPOSED FM (NUMBER INDICATED)	FM-XX 	
SOIL BORING AT PROPOSED HDD (NUMBER INDICATED)	HDD-XX 	
TEST HOLE (NUMBER INDICATED)	TH-XX 	
ASPHALT OR CONCRETE CORE SAMPLE (NUMBER INDICATED)	PC-XX 	
BENCHMARK (NUMBER INDICATED)	BM-XX 	
CONTROL POINT (NUMBER INDICATED)	CP-XX 	
EXPLORATORY HOLE (NUMBER INDICATED)	EH-XX 	
GROUND MONITORING WELL	GW-XX	
SIGN - TYPE INDICATED	 OR  SIGN	
BUSH, SHRUB OR HEDGE		
SILT BERM	-----○-----	
SILT FENCE	-----○-----	
TREE, SIZE & TYPE INDICATED	 12" O	

	<u>EXISTING</u>	
ELECTRIC POLE OR S.B.T. POLE (WOOD)	PP □	OR PP □ (WITH LIGHT)
WOOD POWER POLE	○	WPP
ELECTRIC POLE OR S.B.T. POLE (CONC.)	PP □	OR PP □ (WITH LIGHT)
POWER POLE		
GUY WIRE	→	
TRAFFIC SIGNAL POLE		
WATER METER	□ WM	
WATER METER WITH TOUCHREAD	□ WM(TR)	
TELEPHONE BOX	□ T	
CATV BOX	□ CATV	
GAS VALVE	⊕	
TELEPHONE MANHOLE		
DRAINAGE MANHOLE		
ELECTRIC MANHOLE		
SANITARY MANHOLE		
UNKNOWN MANHOLE		
SANITARY SEWER VALVE		
NON-POTABLE WATER VALVE		
WATER VALVE COVER		
WATER METER	□ W	
WATER VALVE		
UTILITY SERVICE BOX		
GAS MARKER		

	EXISTING	PROPOSED
DRAIN PIPE		
CATCH BASIN		
STORM DRAIN GRATE		
CULVERT (SIZE & MAT'L INDICATED)		
CULVERT W/ENDWALLS (SIZE & MAT'L INDICATED)		
UNDERGROUND CABLE TV		
UNDERGROUND GAS LINE		
BURIED TELEPHONE		
BURIED ELECTRIC LINE		
BURIED FIBER OPTIC		
OVERHEAD ELECTRIC LINE		
OVERHEAD TELEPHONE LINE		
TRAFFIC SENSOR		
UNDERGROUND UNKNOWN UTILITY		
GATE VALVE		
FIRE HYDRANT		
REDUCER		
FLUSHING MANUAL AIR RELEASE VALVE/ TEMPORARY SAMPLE TEST TAP		
STORM SEWER (SIZE & MAT'L INDICATED)		
WATER MAIN (SIZE & MAT'L INDICATED)		
GRAVITY SEWER (SIZE & MAT'L INDICATED)		
SEWER FORCE MAIN (SIZE & MAT'L INDICATED)		
RECLAIMED WATER (SIZE & MAT'L INDICATED)		

AC	ASBESTOS CEMENT	EXP JT	EXPANSION JOINT	PRM	PERMANENT REFERENCE
AG	ALLEY GRATE	F	FILL		MONUMENT
B	BASE LINE	FH	FIRE HYDRANT	PVC	POLYVINYL CHLORIDE
BM	BENCH MARK	FL	FLOW LINE	r	RADIUS
BC	BOTTOM OF CURVE	FM	FORCE MAIN	R	RATE
BE	BURIED ELECTRIC	FO & FOC	FIBER OPTIC CABLE UNDERGROUND	RE	RECLAIMED WATER
BT	BURIED TELEPHONE	FOTC	FIBER OPTIC TOWER CLOUD	RCP	REINFORCED CONCRETE PIPE
CATV	CABLE TV UNDERGROUND		UNDERGROUND	RT	RIGHT
CB	CATCH BASIN	GALV / GLV	GALVANIZED	R/W	RIGHT OF WAY
CI	CAST IRON	G	GAS LINE	RD	ROOF DRAIN
C	CENTER LINE	GV	GAS VALVE	SJC	ST. JOHNS COUNTY
CEP	CITY ELECTRIC POLE	HDD	HORIZONTAL DIRECTIONAL DRILL	SJRWMD	ST. JOHNS RIVER WATER
COJ	CITY OF JACKSONVILLE	HDPE	HIGH DENSITY		MANAGEMENT DISTRICT
CONC	CONCRETE		POLYETHYLENE PIPE	SL	STREET LIGHT POWER
CONST	CONSTRUCTION	HW	HEAD WALL	S/W	SIDE WALK
CMP	CORRUGATED METAL PIPE	HC	HIGH CURB	STA	STATION
CPMA	CORRUGATED METAL PIPE ARCH	ID	INSIDE DIAMETER	TCP	TERRA COTTA PIPE
CPP	CONCRETE POWER POLE	INV	INTERSECTION	TOP	TOP OF PIPE
CULV	CULVERT	INV	INVERT	TS	TRAFFIC SENSOR
C&G	CURB & GUTTER	IP	IRON PIPE	UNK	UNKNOWN
C	CUT	IRR	IRRIGATION PIPE	USC & GS	UNITED STATES COASTAL & GEODETIC SURVEY
DBI	DITCH BOTTOM INVERT	LT	LEFT		VITRIFIED CLAY
DW OR DR	DRIVEWAY	MB	MAIL BOX	VC	WATER MAIN
DI	DUCTILE IRON	MH	MANHOLE	WM	WATER VALVE
EOP	EDGE OF PAVEMENT	NTS	NOT TO SCALE	WV	WOOD LIGHT POLE
ELEV	ELEVATION	OD	OUTSIDE DIAMETER	WLP	WOOD POWER POLE
ERCP	ELLIPTICAL REINFORCED CONC. PIPE	OHE	OVERHEAD ELECTRIC	WPP	WOOD TELEPHONE POLE
		OT	OVERHEAD TELEPHONE	WTP	

M

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NO. SHEETS	PROJ. NO. 5024023688		5TH STREET WEST 20" FORCE MAIN EXTENSION			
SHEET NO.	DATE: MAY 2020					
2						
DRAWING NO. G-2	SCALE: NTS		ABBREVIATIONS, GENERAL LEGEND & SYMBOLS			
		DESIGNER: B. NEU		BY	DATE	REVISIONS
		DRAWN BY: F. NGUYEN		BRUCE A. NEU		6.
		DATE: MAY 2020				
		CHECKED BY: P. MOURT		FLORIDA REGISTRATION NO.		4.
		DATE: MAY 2020		51672		3.
						2.
						1.

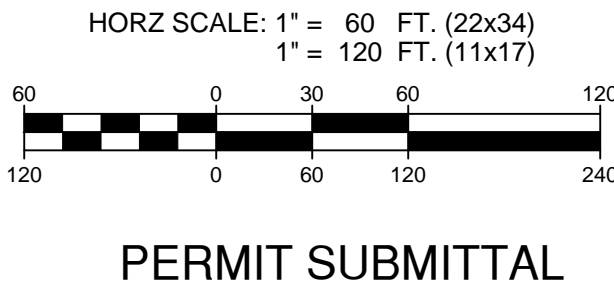
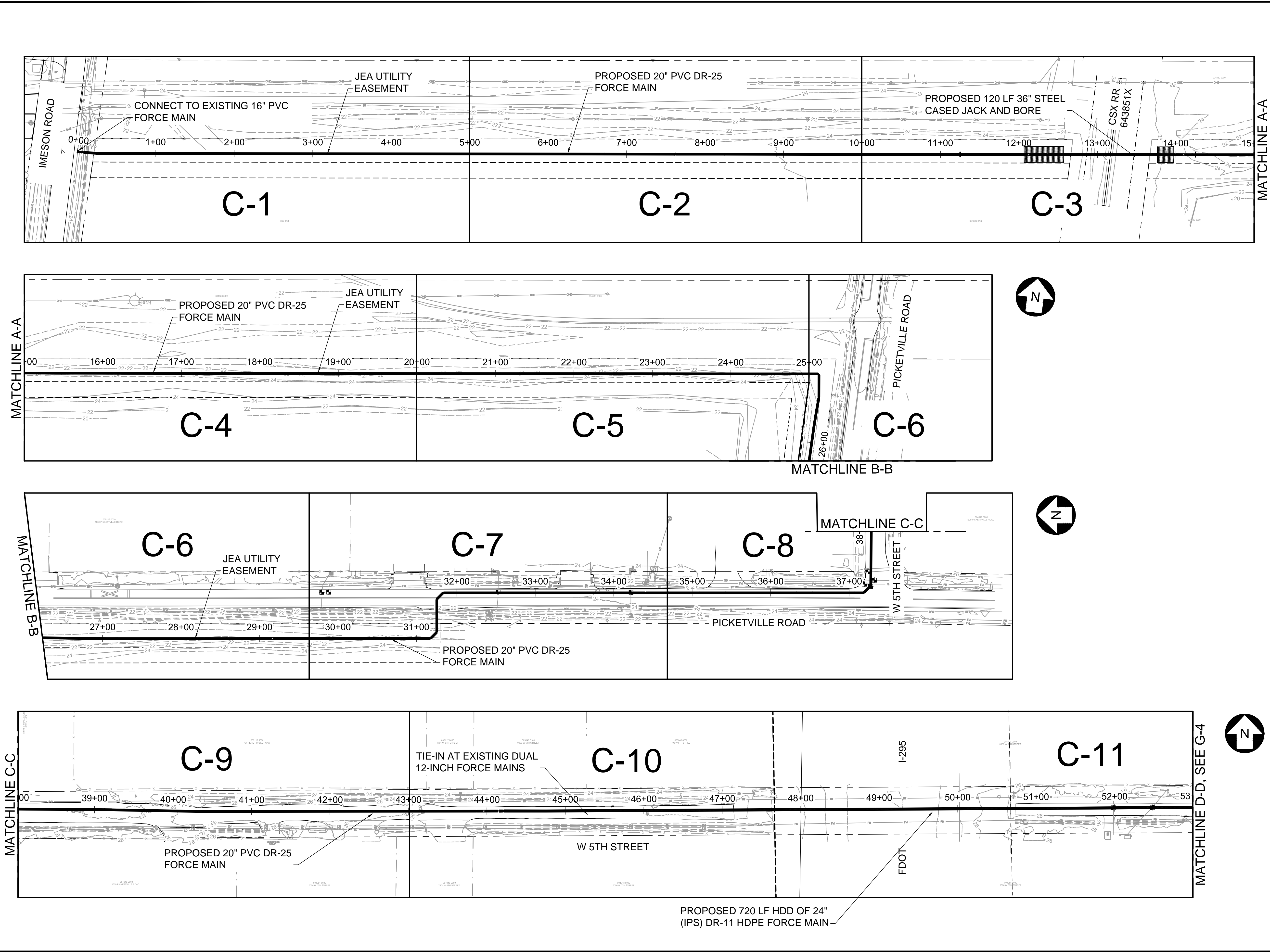
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6/24/2020

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NO.		BY	DATE	DESIGN ENGINEER	
1	5			BRUCE A. NEU	
2	4			FLORIDA REGISTRATION NO.	
3	3			51672	
4	2				
5	1				

DESIGNER:	B. NEU
DRAWN BY:	F. NGUYEN
DATE:	MAY 2020
CHECKED BY:	F. NGUYEN
DATE:	MAY 2020

PROJ. NO. 502402368

DATE: MAY 2020

SCALE: AS NOTED

NO. SHEETS 8

SHEET NO. 9

DRAWING NO. G-3

JEA

Building Community

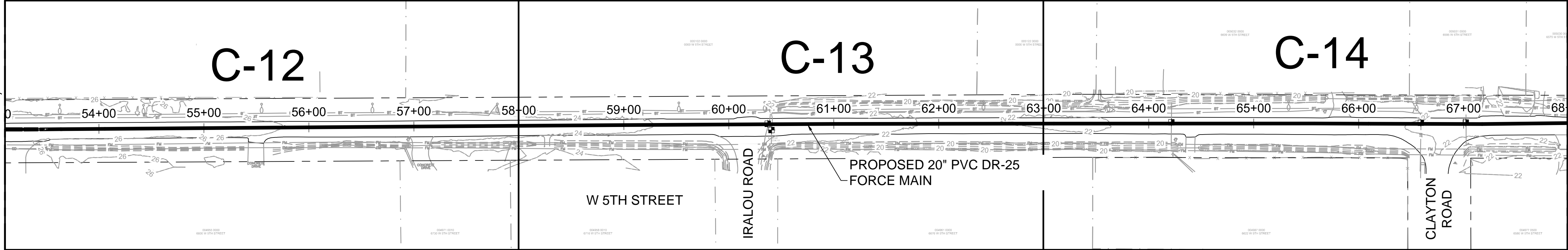
5TH STREET WEST 20" FORCE MAIN EXTENSION
SHEET KEY PLAN

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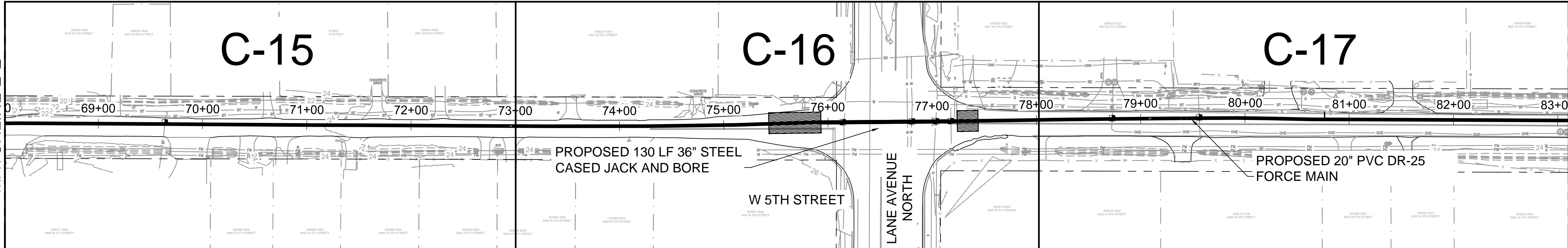
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MATCHLINE E-E



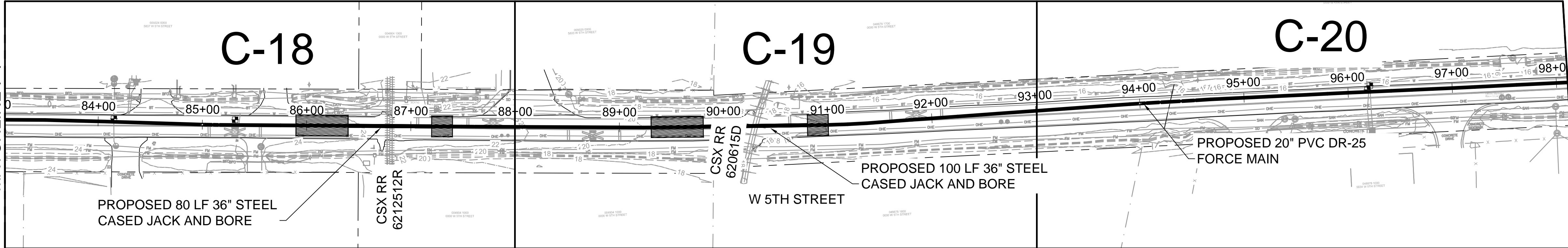
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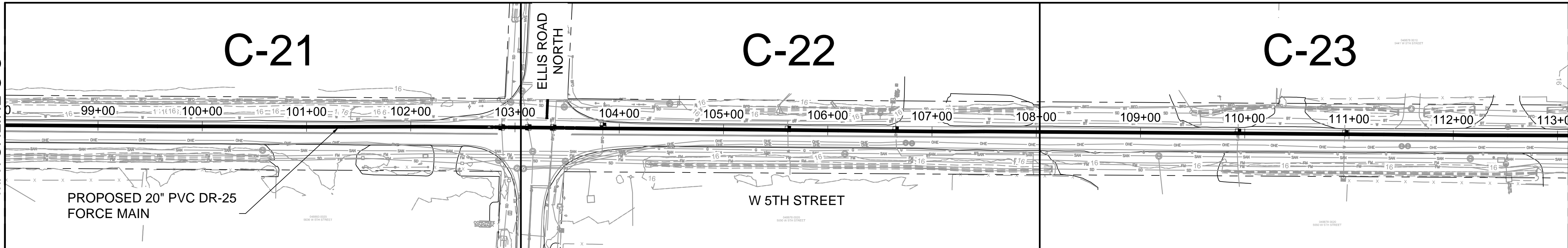
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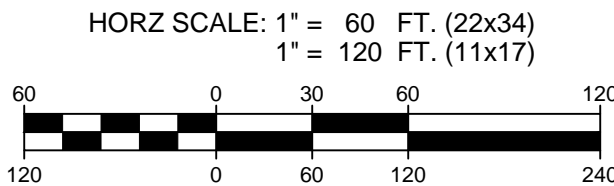
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MATCHLINE G-G



MATCHLINE H-H, SEE G-5



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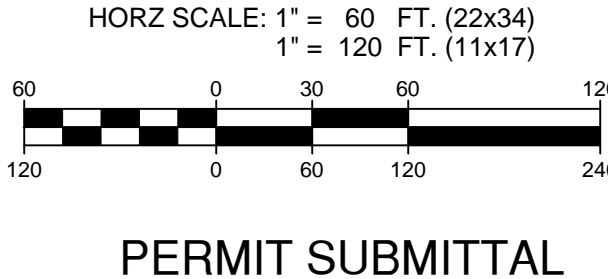
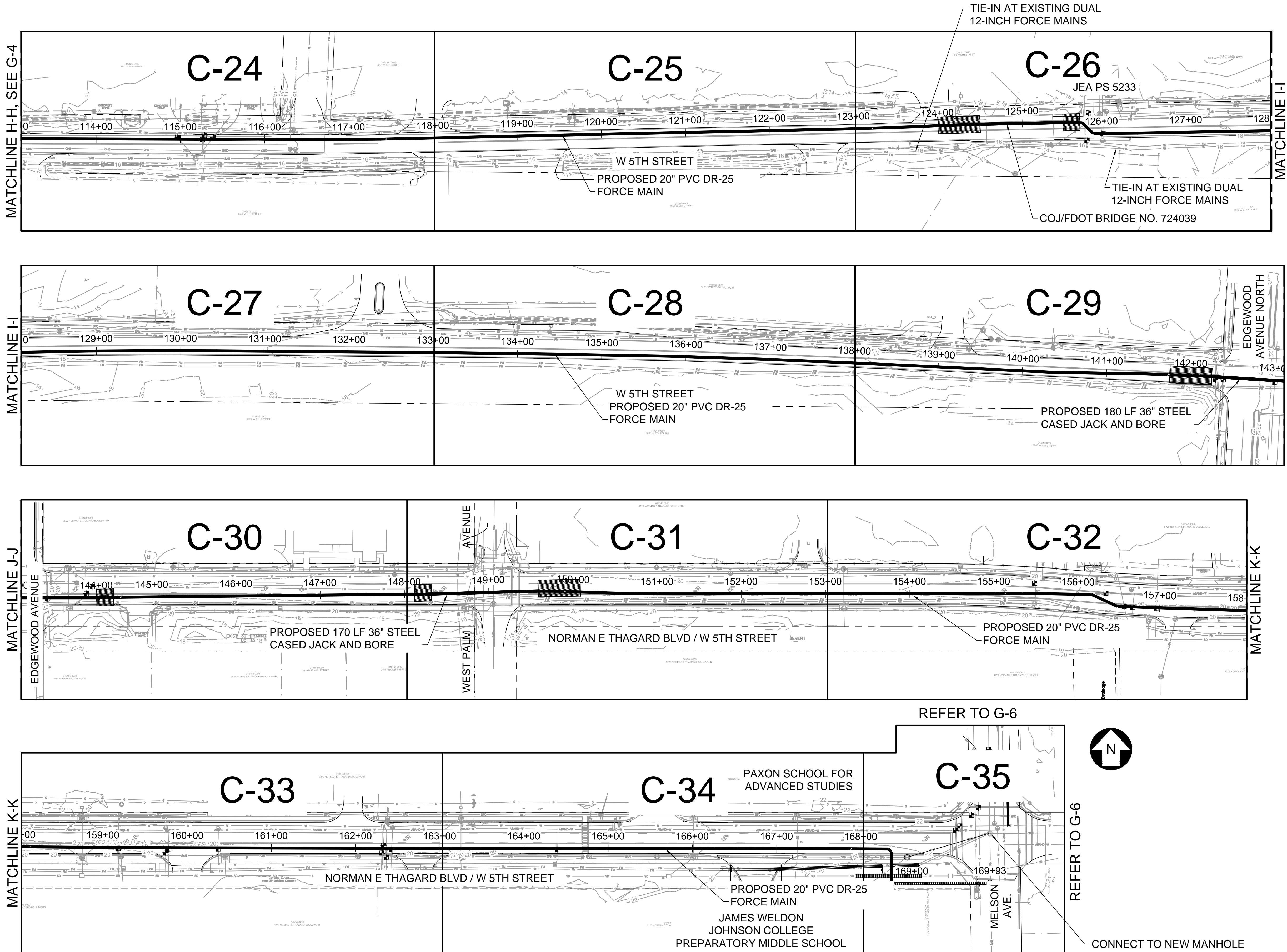
Engineers EE - C0001055

Surveyors LS - C0001055

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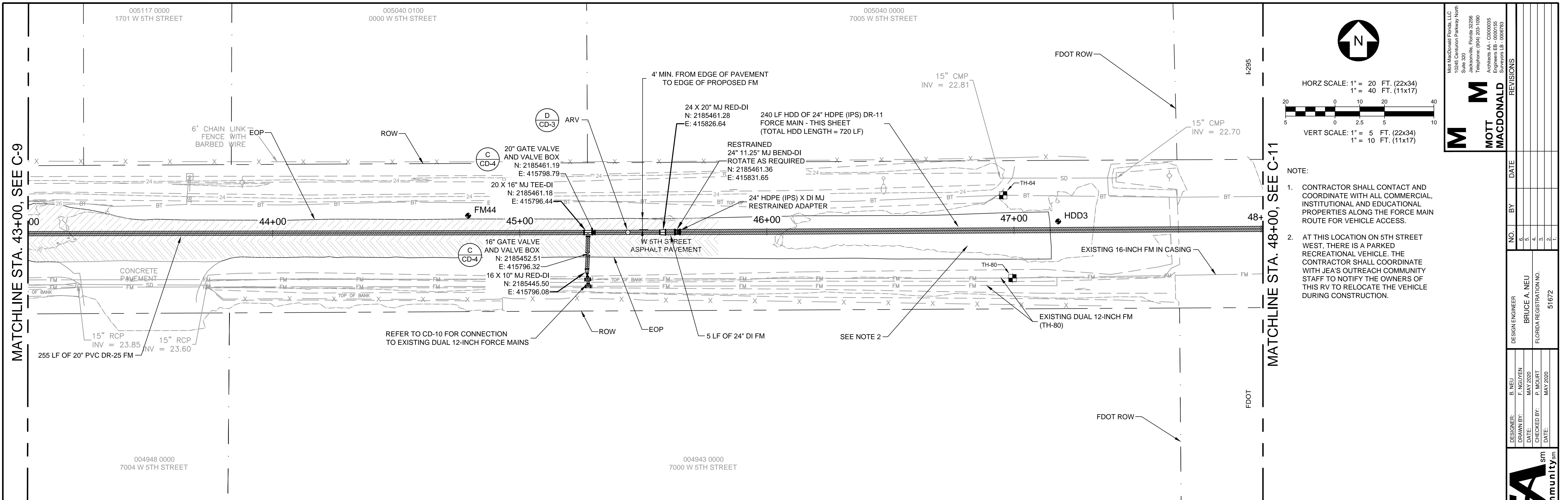
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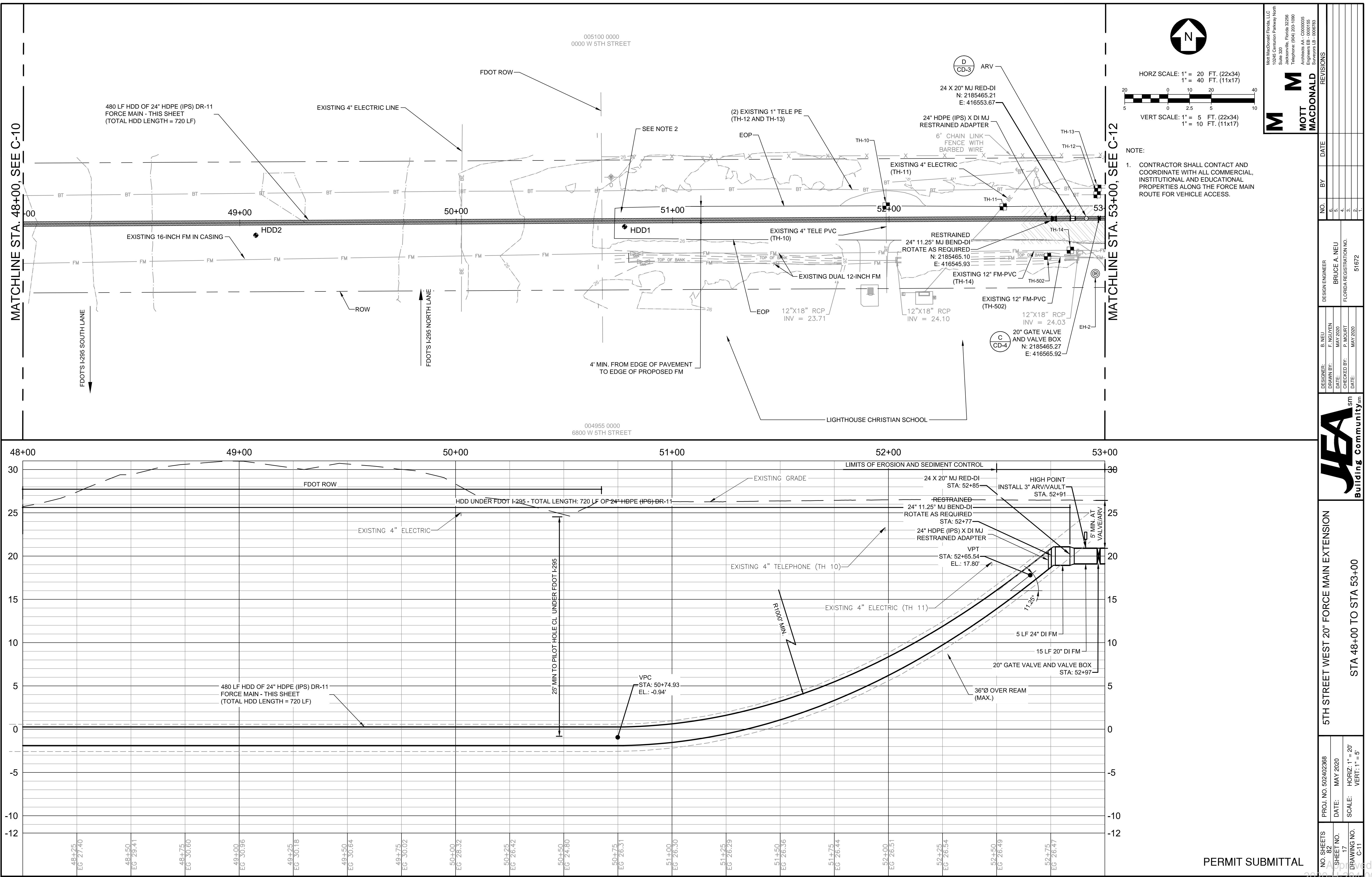
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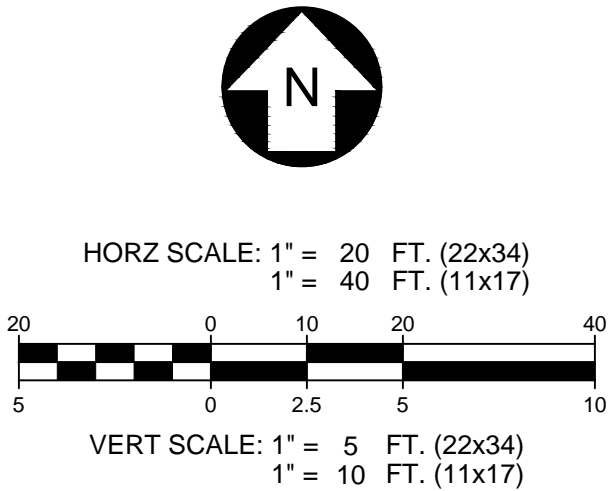
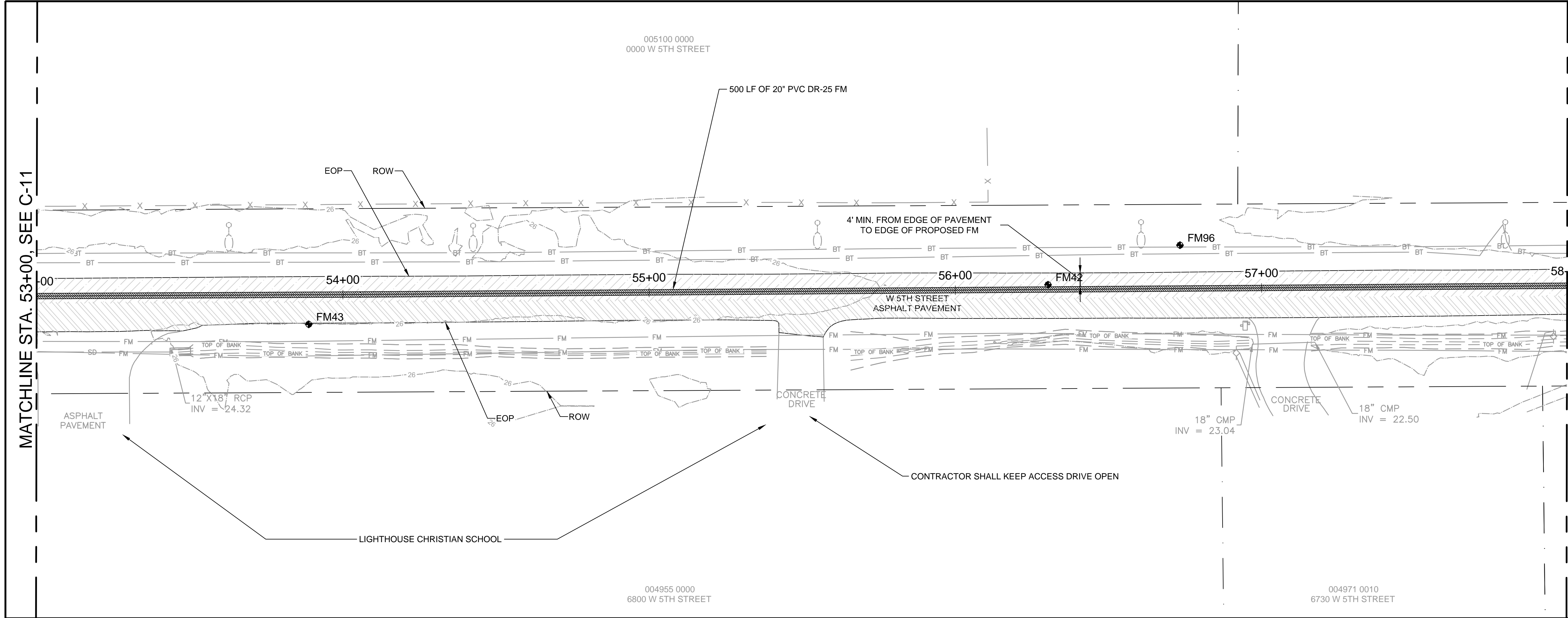
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DRAWING NO. G-5		SCALE: AS NOTED						CHECKED BY: P. MOURT				FLORIDA REGISTRATION NO.		4.									
								DATE: MAY 2020				51672		3.									
														2.									



NO. SHE DRAW



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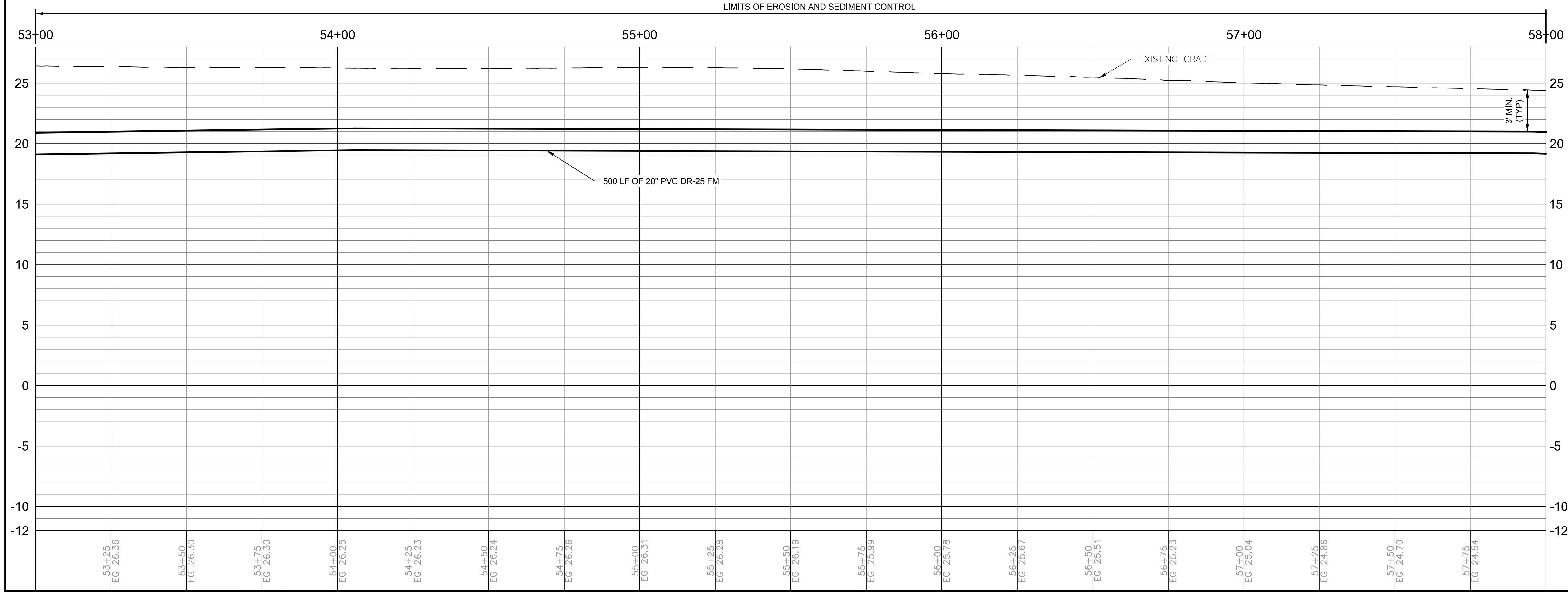
NOTE:

- CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL COMMERCIAL, INSTITUTIONAL AND EDUCATIONAL PROPERTIES ALONG THE FORCE MAIN ROUTE FOR VEHICLE ACCESS.

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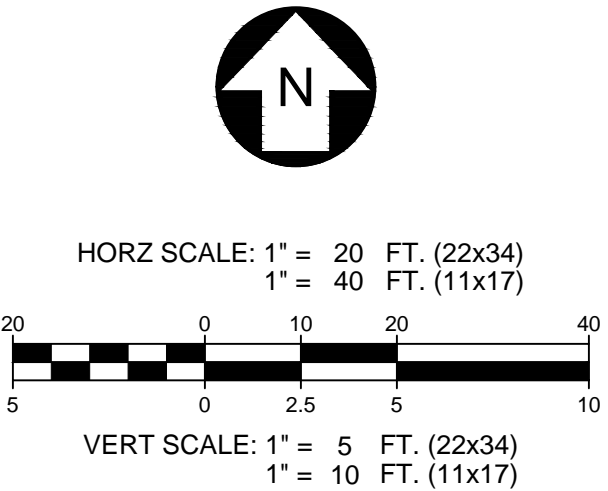
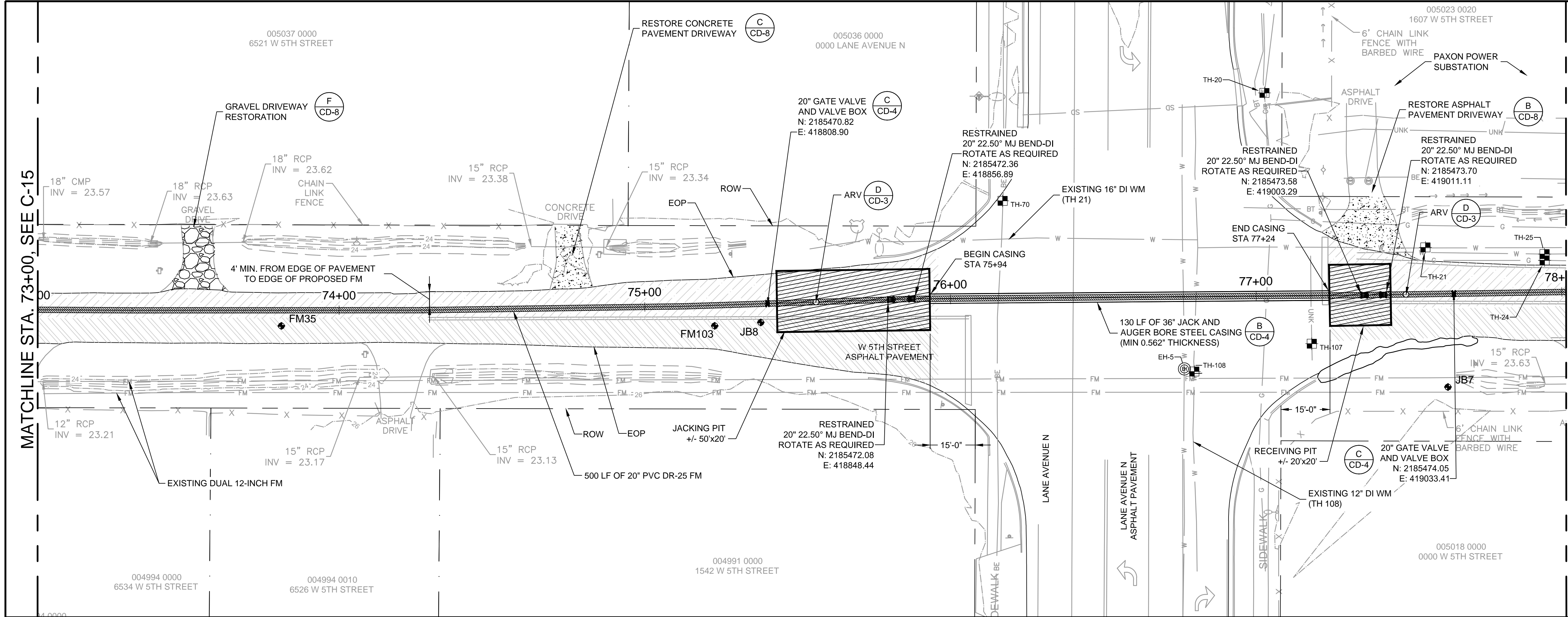
DESIGNER		DESIGN ENGINEER		REVISIONS	
B. NEU	B. NEU	BRUCE A. NEU		NO.	DATE
DRAWN BY:	DATE:	FLORIDA REGISTRATION NO.		1.	
CHECKED BY:	DATE:	51672		2.	
				3.	
				4.	
				5.	



PERMIT SUBMITTAL

PROJ. NO. 502402368		SHEET NO. 18		DRAWING NO. C-12	
DATE:	MAY 2020	SCALE:	HORIZ: 1" = 20'		
			VERT: 1" = 5'		
5TH STREET WEST 20" FORCE MAIN EXTENSION					
STA 53+00 TO STA 58+00					

JEA
Building Communitysm



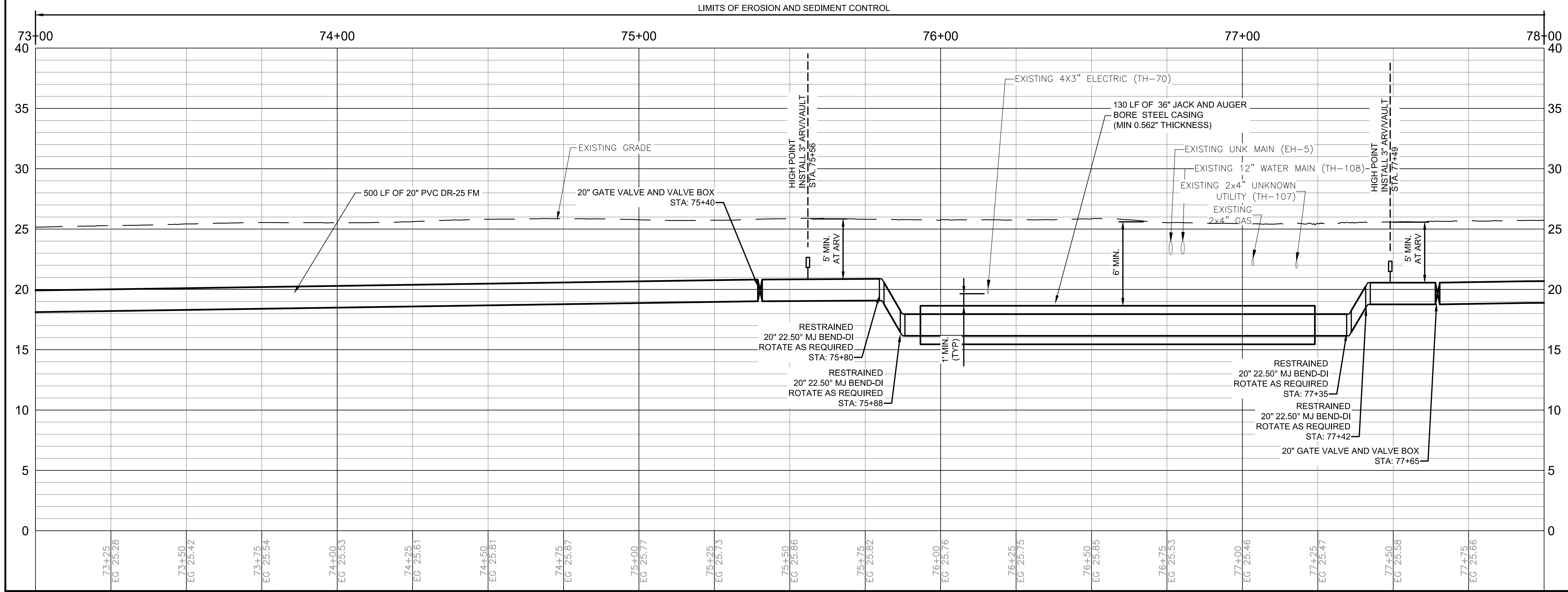
NOTE:

1. CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL COMMERCIAL, INSTITUTIONAL AND EDUCATIONAL PROPERTIES ALONG THE FORCE MAIN ROUTE FOR VEHICLE ACCESS.

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MOTT MACDONALD

REVISIONS	
NO.	DATE
1	
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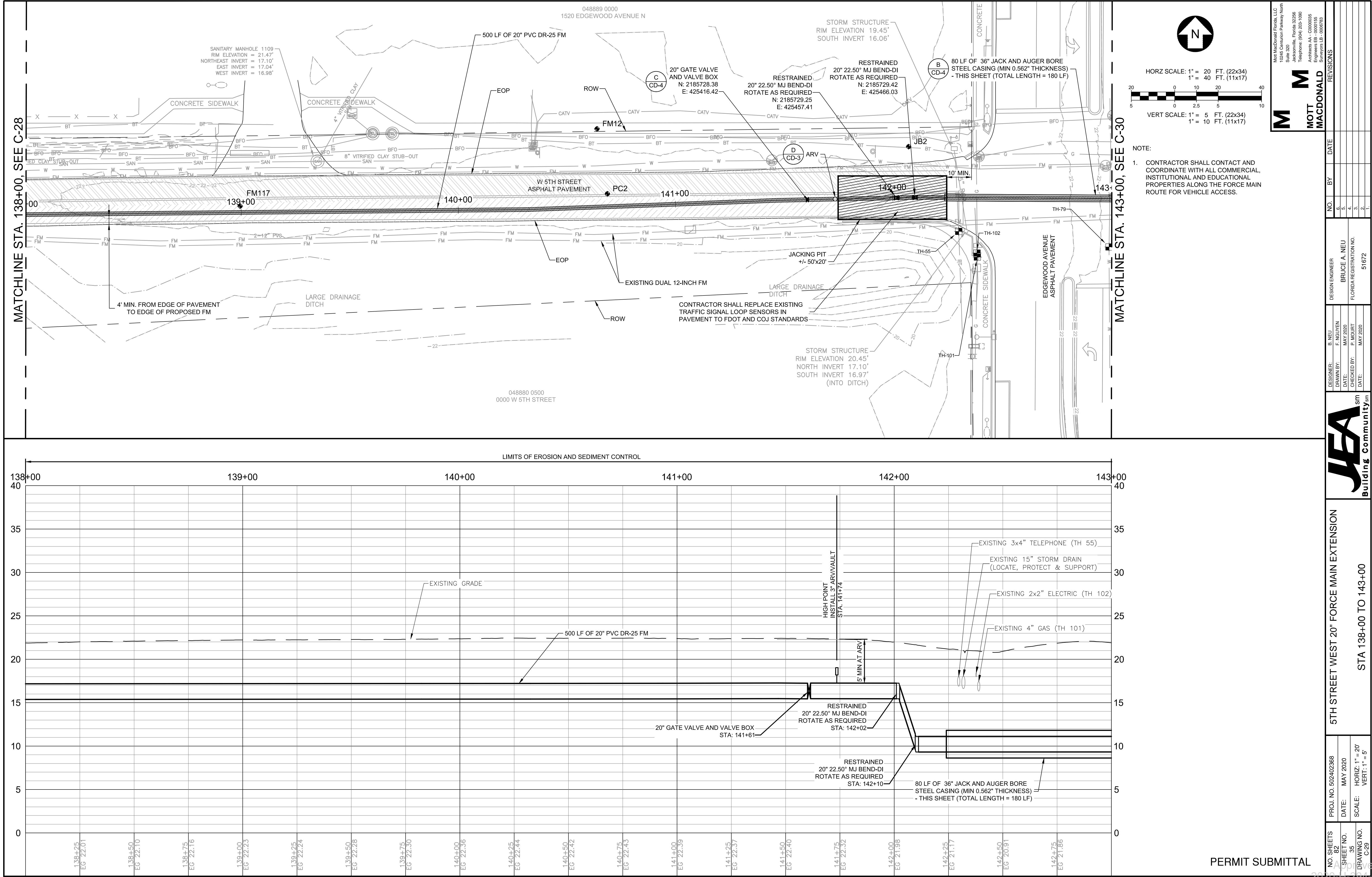
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JEA sm
Building Community

PROJ. NO. 50202368	
DATE:	MAY 2020
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NO. SHEETS: 82	SHEET NO. 22
DRAWING NO. C-16	

5TH STREET WEST 20" FORCE MAIN EXTENSION
STA 73+00 TO STA 78+00

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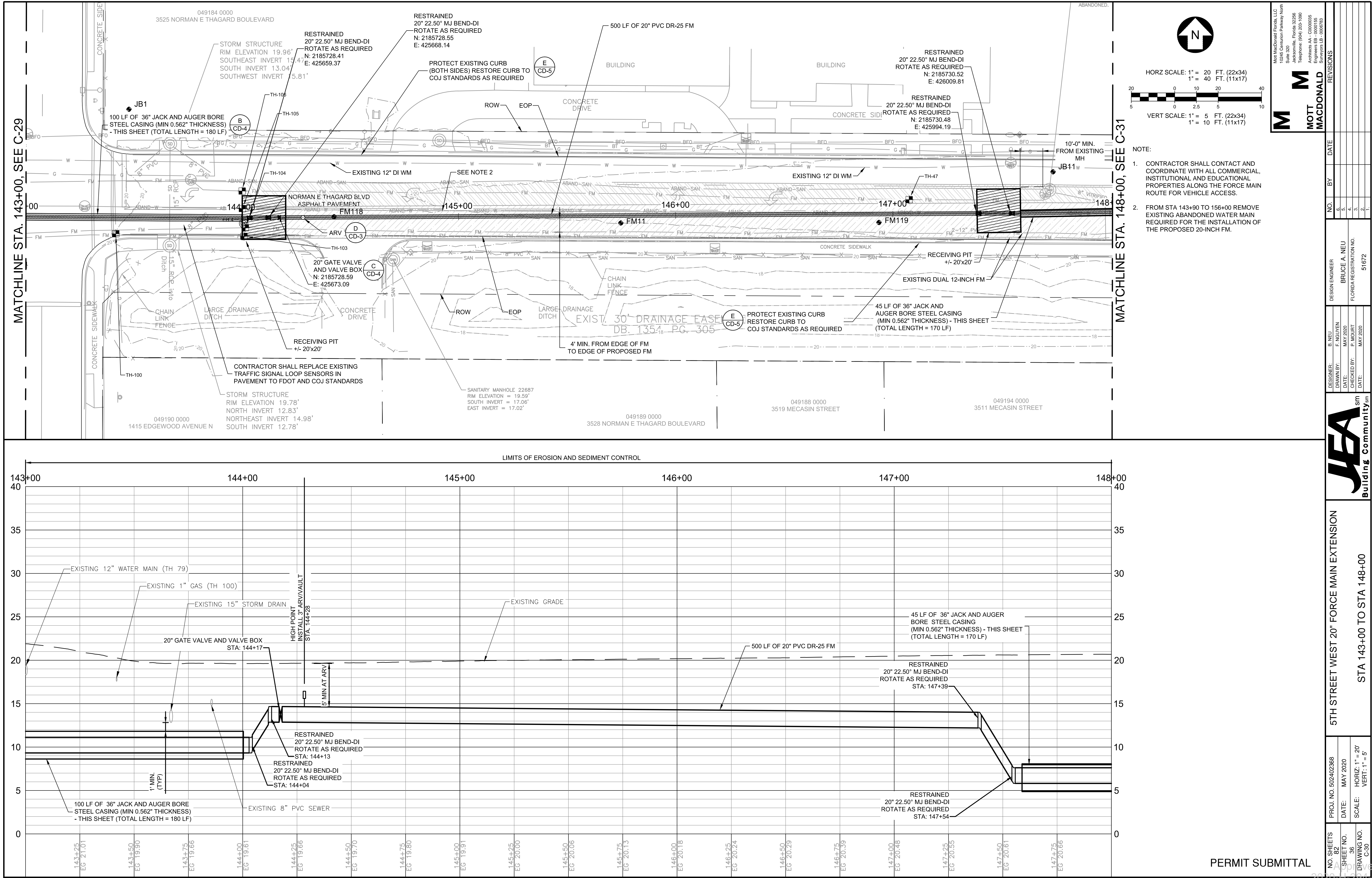


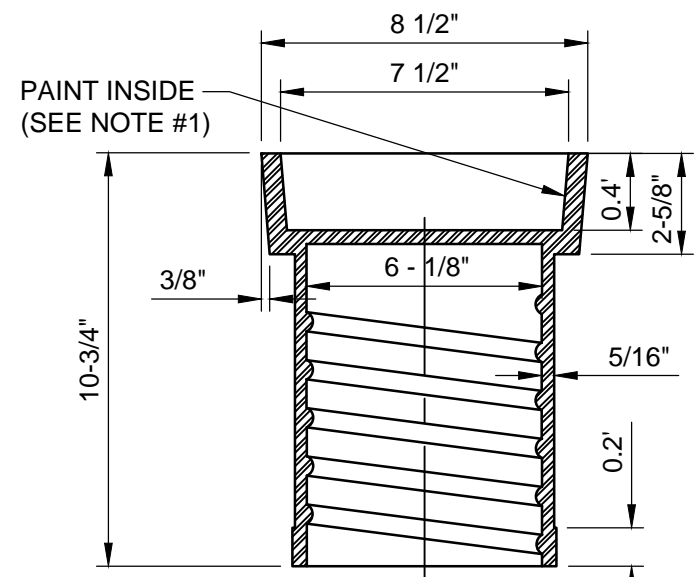
PERMIT SUBMITTAL

PROJ. NO. 50202368		DESIGN ENGINEER		BRUCE A. NEU		FLORIDA REGISTRATION NO. 51672	
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SHEET NO. 35		NO. 1		BY		DATE	
DRAWING NO. C-29		REVISIONS		NO.		DATE	
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SCALE:		4					
STA 138+00 TO 143+00		5TH STREET WEST 20" FORCE MAIN EXTENSION					
		JEA Building Community					
		MOTT MACDONALD					
		North Macdonald Florida, LLC					
		10245 Cummin Parkway North					
		Suite 320					
		Jacksonville, Florida 32206					
		Telephone: (904) 205-1090					
		Architect AA - 00000035					
		Engineer EE - 00000035					
		Surveyor SS - 00000035					

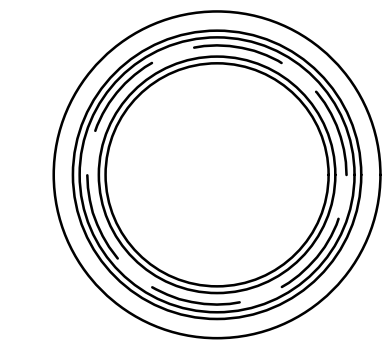
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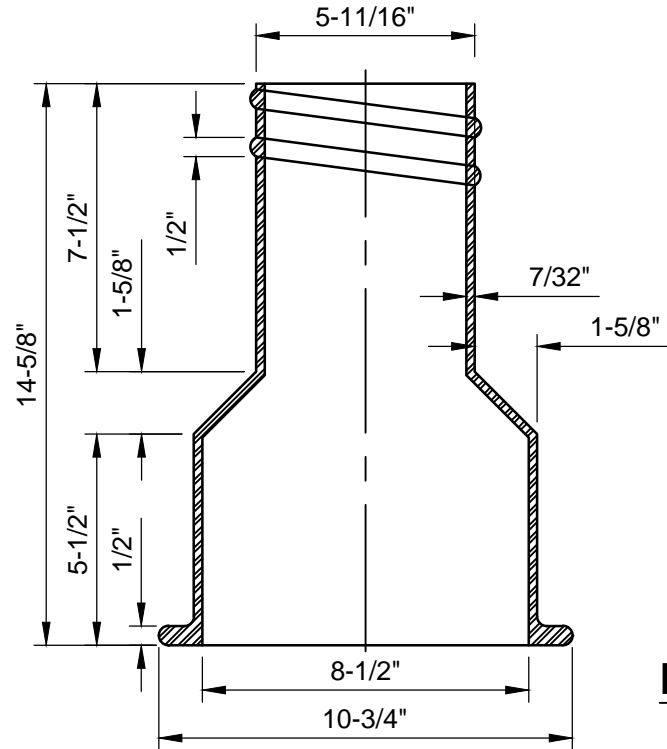




HEAVY DUTY RATING



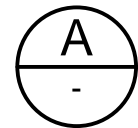
TOP SECTION VIEW
(23 LBS. APPROX.)



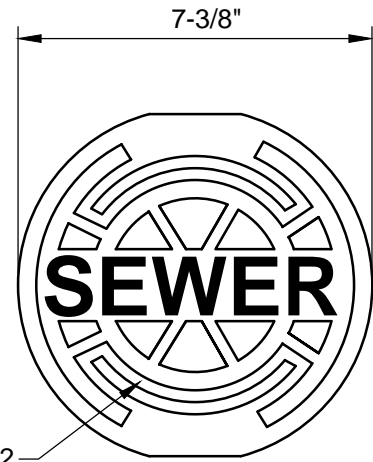
BOTTOM SECTION VIEW
(26 LBS. APPROX.)

NOTES:

1. PAINT THE INSIDE OF THE TOP SECTION OF THE BOX WITH GREEN COLOR.
2. HEAVY DUTY RATING (TOTAL WEIGHT APPROX. 50 LBS.).
3. REFERENCE SECTION 430, PARAGRAPH VI.2.

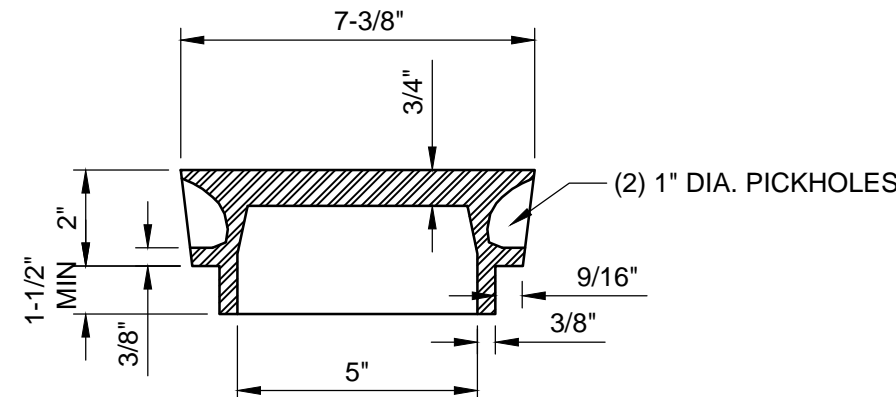


SEWER SYSTEM VALVE BOX
JANUARY 2019
PLATE S-32



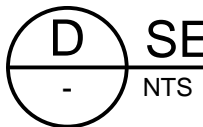
SEE NOTES #1 & #2

HEAVY DUTY RATING

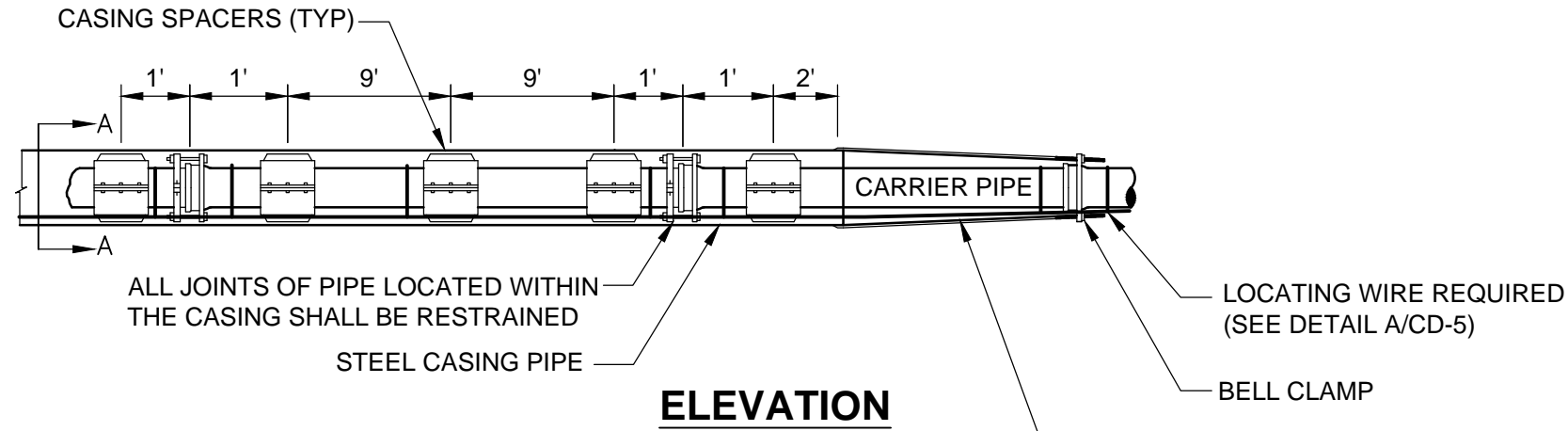


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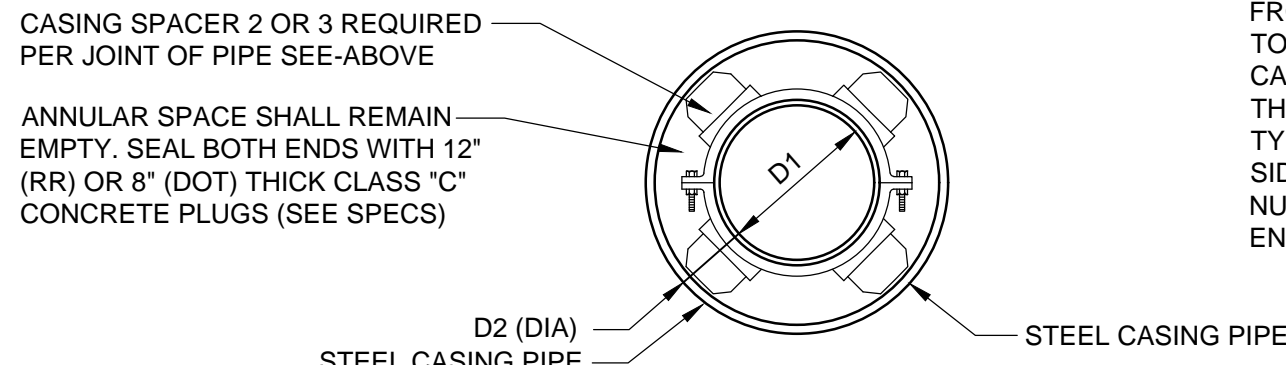
1. PAINT TOP OF THE COVER WITH ENAMEL PAINT (GREEN COLOR).
2. LID WEIGHT: APPROX. 12 LBS.



SEWER SYSTEM VALVE BOX COVER
JANUARY 2019
PLATE S-31



ELEVATION



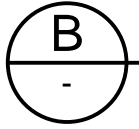
SECTION "A-A"

CARRIER TYPE AND CASING PIPE SIZES (MIN) IN INCHES														
CARRIER PIPE NO. DIA. (D ₁)	4	6	8	10	12	14	16	18	20	24	30	36	42	48
CASING PIPE NOM. DIA. (D ₂)	14	16	20	20	24	30	30	30	36	42	48	54	60	66
WALL THICKNESS RAILROAD-(FEC)	0.25	1.25	0.375	0.375	0.375	0.50	0.50	0.50	0.562	0.625	0.625	0.688	0.781	0.781
WALL THICKNESS RAILROAD-(CSX)	0.25	0.281	0.375	0.375	0.375	0.469	0.469	0.469	0.562	0.625	0.688	0.781	0.844	0.938
WALL THICKNESS DOT	0.25	0.25	0.25	0.25	0.25	0.312	0.312	0.312	0.375	0.50	0.50	0.50	0.50	0.50
NUMBER OF TIE RODS (EACH END)	2	2	2	4	4	6	6	8	8	12	14	14	16	16
TIE ROD SIZE (DIA.)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1 1/4"	1 1/4"

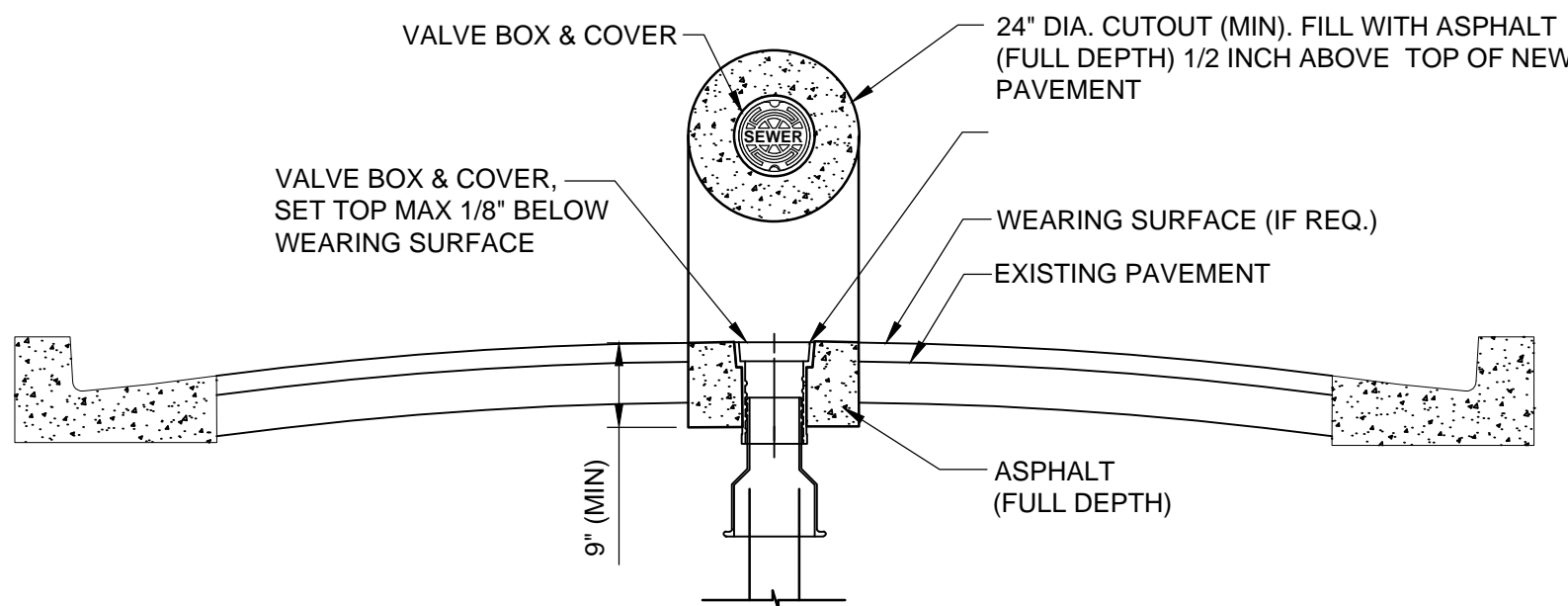
PIPE MAIN CROSSINGS FOR RAILROADS OR HIGHWAYS

NOTES:

1. MIN. COVER TO TOP OF CASING; a) FDOT-3.0' b)RAILROAD-5.5' TO BASE OF RAIL, 4.5' FOR SECONDARY OR INDUSTRIAL TRACKS. EXCEPT FOR F. E.C. (SEE NOTE 3)
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. HOWEVER, A MINIMUM OF 6 INCHES IS REQUIRED FOR FLORIDA EAST COAST R.R. CROSSINGS.
3. THE MINIMUM COVER FOR CASING UNDER FLORIDA EAST COAST RAILROAD SHALL BE 5.0 FEET BELOW THE BOTTOM OF TIES FOR ALL TRACKS.
4. ALL JOINTS WITHIN CARRIER PIPE SHALL BE MECHANICAL RESTRAINED JOINTS.
5. FOR STREET USES WHICH ARE NOT DOT OR RAILROAD, USE DOT CASING THICKNESS UNLESS OTHERWISE INDICATED BY ENGINEER.
6. CASING PIPE SHALL BE FURNISHED IN NOMINAL 8 FOOT LENGTHS (MIN.) UNLESS OTHERWISE INDICATED ON THE DRAWING OR APPROVED BY JEA.
7. PIPE TO BE USED AS A CASING SHALL CONFORM TO EITHER ASTM STANDARD A139 FOR "ELECTRIC FUSION (ARC) WELDED STEEL PIPE". WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI OR "API SPECIFICATION API-5LX, GRADE X-42 WELDED STEEL PIPE".



TYPICAL CASING DETAIL - SEWER
JANUARY 2019
PLATE S-25

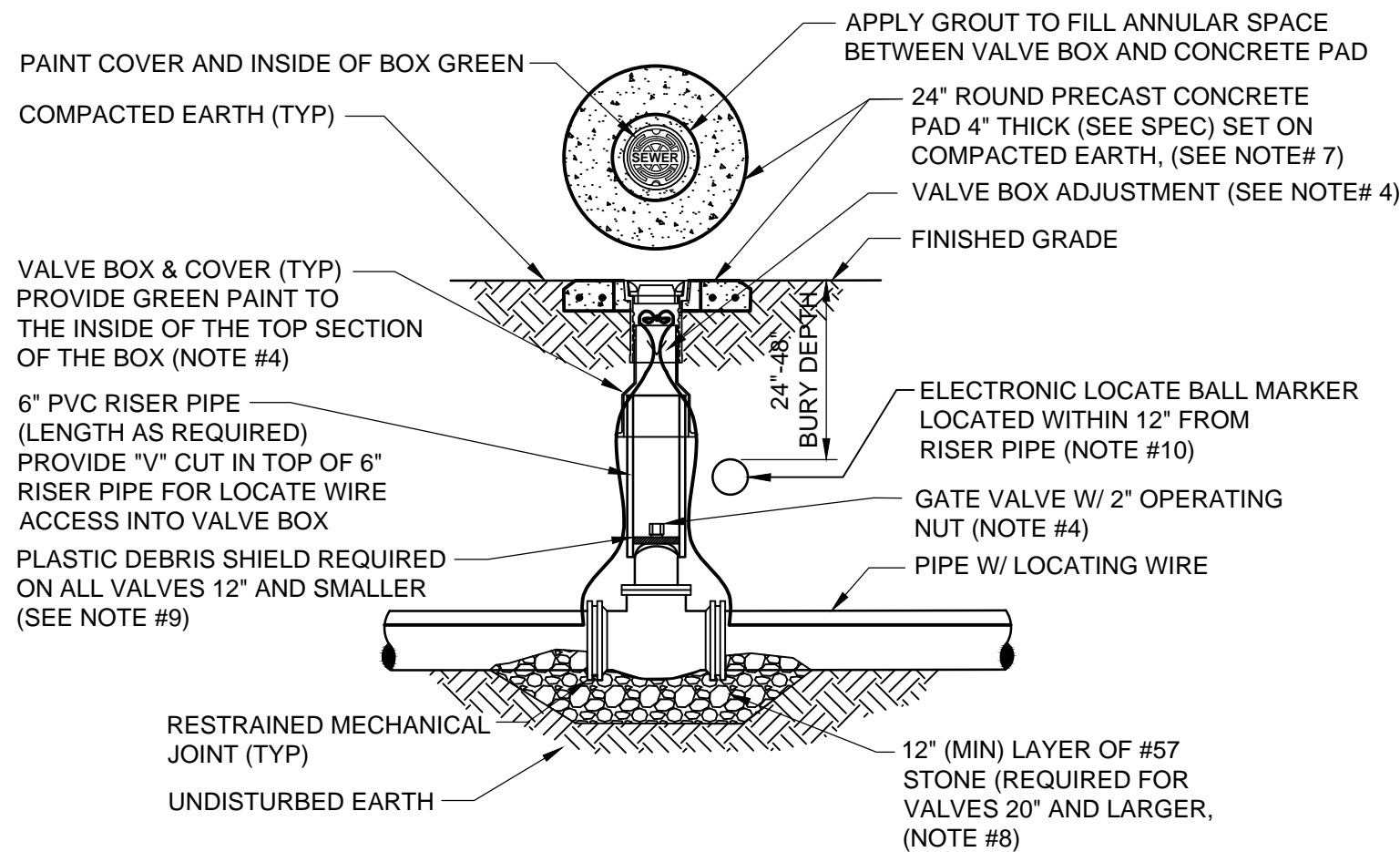


NOTES:

1. PROVIDE FULL DEPTH ASPHALT 1/2 INCH ABOVE TOP OF NEW PAVEMENT LEVEL. TO ALLOW FOR FUTURE ASPHALT MATERIAL COMPACTION. PLACE AND COMPACT ASPHALT IN 2" (MAX) LIFTS.

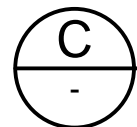


SEWER VALVE JACKET ADJUSTMENT AFTER ROADWAY RE-SURFACING
JANUARY 2019
PLATE S-33

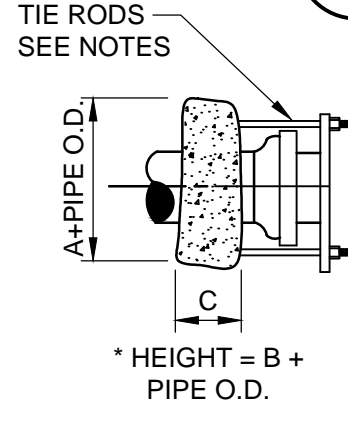
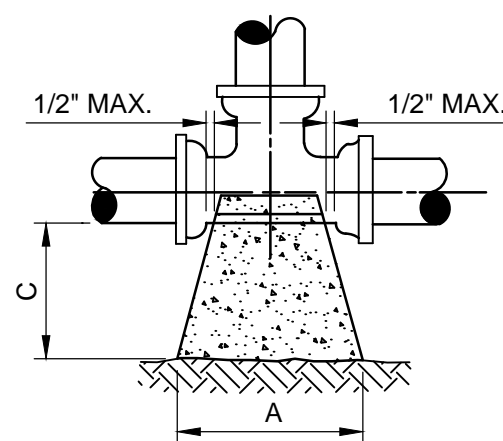


NOTES:

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 DETAIL A/CD-5).
3. A "V" CUT SHALL BE CARVED IN THE CURB CLOSEST(ASPHALT IF NO CURB) ADJACENT TO ALL BELOW GRADE VALVES. THE "V" CUT IS TO BE PAINTED GREEN.
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 "SEWER", VALVE SIZE, DIRECTION AND TURNS TO OPEN & VALVE TYPE. PROVIDE A 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 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-1404XR FOR SEWER).



SEWER VALVE DETAIL
JANUARY 2019
PLATE S-30

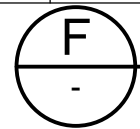


NOTES:

1. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED SOIL.
2. THESE TABLES SHOW MINIMUM SIZES FOR THRUST BLOCKS IN GOOD SOIL (A-1 THRU A-3, CLEAN SANDS AND GRAVELS) WITH MINIMUM BEARING CAPACITY OF 2000 psi.
3. POOR SOILS A-4 THRU A-8, SILTY SOILS, CLAYS, MUCK AND PEAT WILL REQUIRE LARGER THRUST BLOCKING.
4. BOTH CONCRETE THRUST BLOCKS AND TIE RODS MUST BE USED WHEN, IN THE JUDGEMENT OF THE ENGINEER, THE NATURE AND CRITICALITY OF AN INSTALLATION IS SUCH AS TO REQUIRE POSITIVE ASSURANCE OF STABILITY.
5. THE USE OF THRUST BLOCKS SHALL BE LIMITED TO SITUATIONS SUCH AS POINT REPAIR WHERE EXPOSING SEVERAL JOINTS OF PIPE IS NOT FEASIBLE DUE TO EXISTING GROUND CONDITIONS.
6. CONCRETE COLLARS WITH TIE RODS MAY BE USED ON DEAD END LINES AT THE CONTRACTOR'S DISCRETION. 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)
7. MAXIMUM TEST PRESSURE TO BE 150 PSI.

SIZE	90° BEND			S.F. BEARING SURFACE
	A	B	C	
4"	16"	16"	18"	1.78
6"	20"	24"	18"	3.33
8"	26"	32"	18"	5.78
10"	32"	40"	18"	8.89
12"	36"	48"	24"	12.00
14"	40"	56"	24"	15.56
16"	48"	60"	24"	20.00
18"	56"	64"	24"	24.89
20"	60"	76"	24"	31.67
24"	72"	90"	24"	45.00
30"	86"	102"	24"	60.67
36"	116"	108"	24"	86.11

SIZE	90° BEND			S.F. BEARING SURFACE	45° BEND			S.F. BEARING SURFACE	22-1/2° BEND			S.F. BEARING SURFACE	11-1/4° BEND			S.F. BEARING SURFACE
	A	B	C		A	B	C		A	B	C		A	B	C	
4"	16"	16"	18"	1.78	14"	16"	18"	1.56	14"	16"	18"	1.56	14"	16"	18"	1.56
6"	22"	32"	18"	4.89	16"	18"	18"	2.00	14"	16"	18"	1.56	14"	16"	18"	1.56
8"	32"	36"	18"	8.00	24"	28"	18"	4.67	16"	18"	18"	2.00	14"	16"	18"	1.56
10"	36"	46"	18"	11.50	26"	36"	18"	6.50	20"	24"	18"	3.33	14"	18"	18"	1.75
12"	44"	56"	24"	17.11	32"	40"	24"	8.89	24"	30"	24"	5.00	16"	20"	24"	2.22
14"	52"	62"	24"	22.39	36"	48"	24"	12.00	26"	36"	24"	6.50	20"	24"	24"	3.33
16"	58"	72"	24"	29.00	40"	54"	24"	15.00	32"	38"	24"	8.44	22"	24"	24"	3.97
18"	64"	80"	24"	35.56	46"	60"	24"	19.17	36"	42"	24"	10.50	24"	32"	24"	5.33
20"	72"	88"	24"	44.00	52"	66"	24"	23.83	38"	48"	24"	12.67	26"	36"	24"	6.50
24"	96"	96"	24"	36.89	64"	78"	24"	34.67	46"	56"	24"	17.89	32"	40"	24"	8.89
30"	122"	102"	24"	86.11	72"	94"	24"	47.00	56"	62"	24"	24.11	36"	48"	24"	12.00
36"	166"	104"	24"	123.33	88"	108"	24"	66.00	64"	78"	24"	34.67	44"	54"	24"	16.50



THRUST BLOCK SIZE CHART
JANUARY 2019
PLATE S-45

PERMIT SUBMITTAL

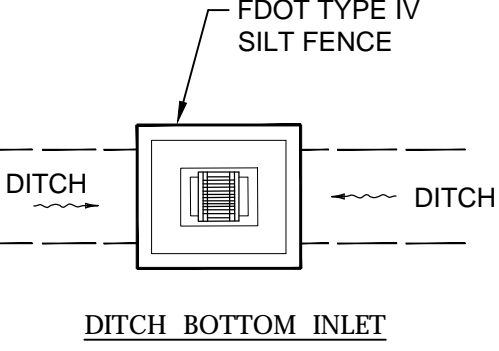
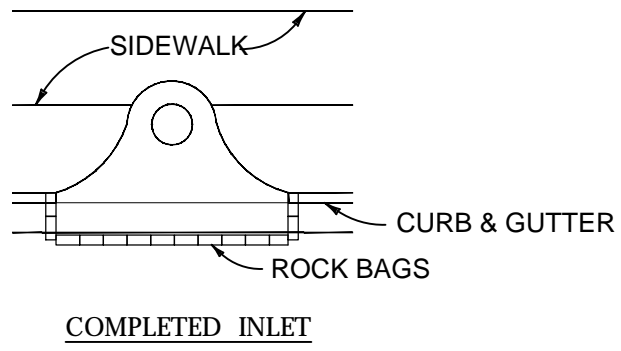
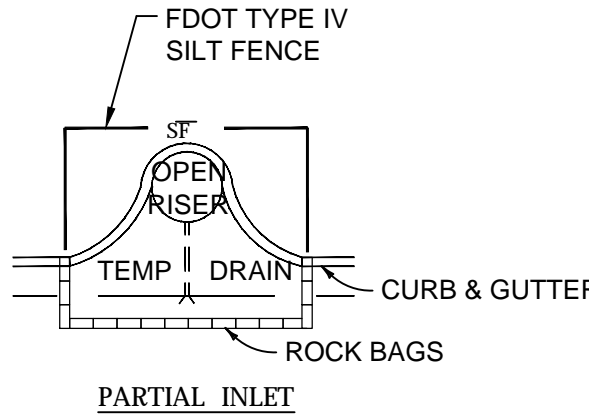
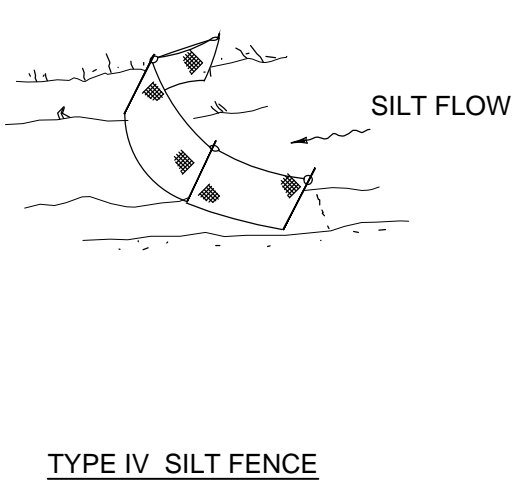
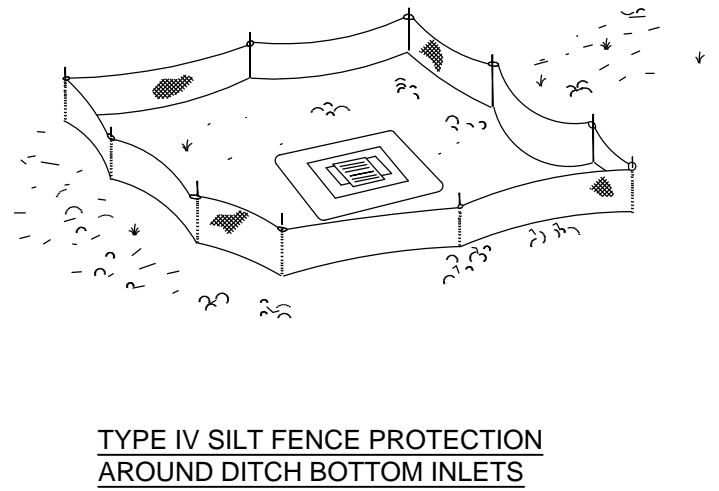
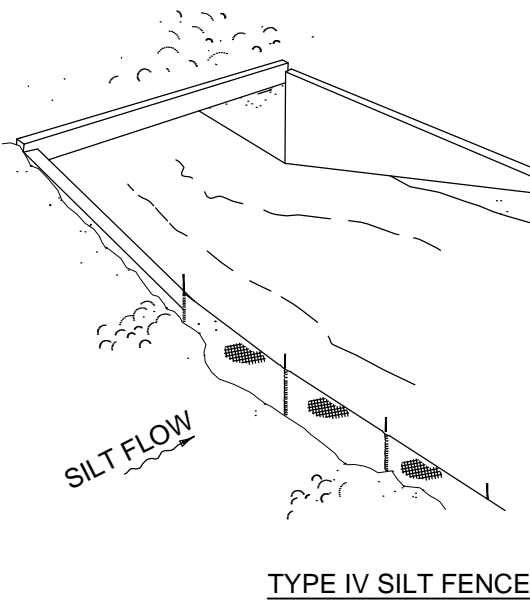
MOTT MACDONALD
10245 Centurian Parkway North
Suite 320
Jacksonville, Florida 32296
Telephone: (904) 202-1190
Architects AA - C00000335
Engineers EE - C00000335
Surveyors SS - C00000335

NO. SHEETS 82		PROJ. NO. 502402368		5TH STREET WEST 20" FORCE MAIN EXTENSION				DESIGNER: B. NEU DRAWN BY: F. NGUYEN		DESIGN ENGINEER BRUCE A. NEU		NO.		BY		DATE		REVISIONS	
SHEET NO. 45		DATE: MAY 2020						DATE: MAY 2020		FLORIDA REGISTRATION NO. 51672		4.							
DRAWING NO. CD-4		SCALE: AS NOTED						CHECKED BY: P. MOUNT				2.							
								DATE: MAY 2020				1.							

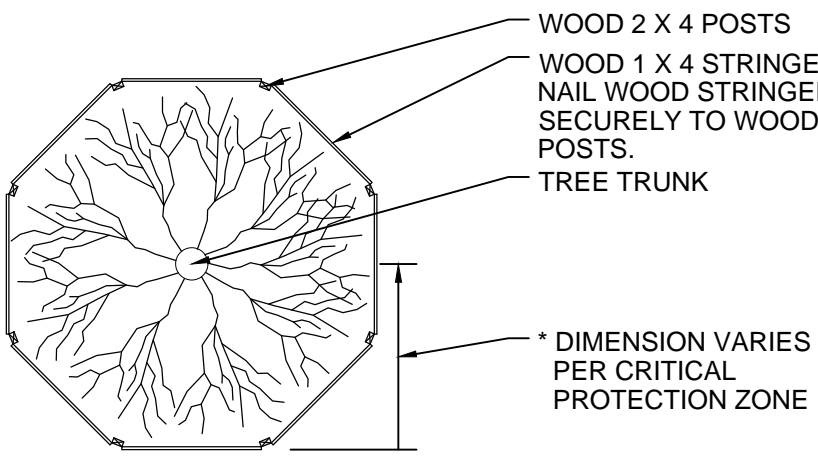
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GENERAL NOTES FOR SOIL EROSION, SEDIMENT CONTROL, AND TREE PROTECTION:

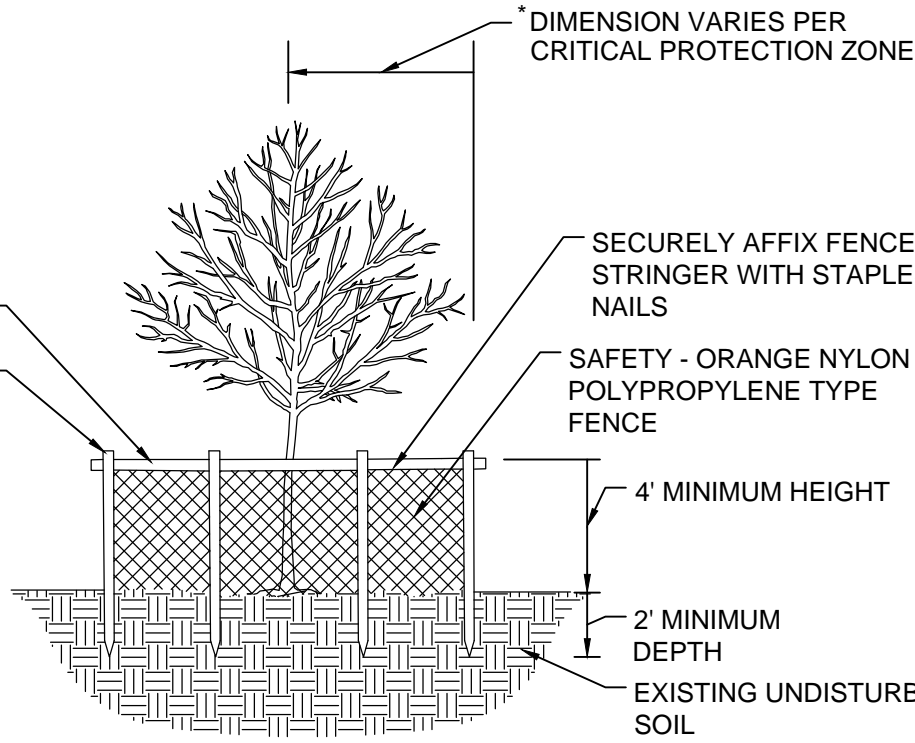
- ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
- ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, SECTIONS 104, 570, 575 AND 980 TO 986 AND CITY OF JACKSONVILLE "EROSIONS AND SEDIMENT CONTROLS FOR CONSTRUCTION SITES".
- UNFILTERED DEWATERING IS NOT PERMITTED. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER.
- SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET. TEMPORARY VEGETATION COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.
- ALL SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS- OF- WAY WILL BE REMOVED IMMEDIATELY.
- ANY AREAS USED FOR THE CONTRACTOR'S STAGING, INCLUDING BUT NOT LIMITED TO, TEMPORARY STORAGE OF STOCKPILED MATERIALS (E.G. CRUSHED STONE, QUARRY PROCESS STONE, SELECT FILL, EXCAVATED MATERIALS, ETC.), SHALL BE ENTIRELY PROTECTED BY A SILT FENCE ALONG THE LOW ELEVATION SIDE TO CONTROL SEDIMENT RUNOFF.
- ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED, DURING ANY PHASE OF DEVELOPMENT, AT THE DISCRETION OF THE JEA APPOINTED CONSTRUCTION INSPECTOR.
- THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE THE MINIMUM REQUIRED. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED, DURING ANY PHASE OF DEVELOPMENT, AT THE DISCRETION OF THE JEA APPOINTED CONSTRUCTION INSPECTOR.
- THE CONTRACTOR SHALL ENSURE THAT A FOREMAN OR SUPERVISOR WHO HAS BEEN CERTIFIED UNDER FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM IS AVAILABLE IN PERSON OR BY PHONE AT ALL TIMES DURING THE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL DESIGNATE THAT PERSON OR PERSONS AT THE PRE- CONSTRUCTION MEETING AND THAT PERSON OR PERSONS MUST ATTEND THE PRE- CONSTRUCTION MEETING.
- EROSION CONTROL MEASURES DEPICTED IN THE PLANS ARE LIMITED TO INLET PROTECTION AND SILT FENCES. THE INLET PROTECTION SHALL BE LIMITED TO INLETS WITHIN THE ACTIVE CONSTRUCTION LIMITS AND A MINIMUM OF TWO INLETS DOWNSTREAM OF THE ACTIVE CONSTRUCTION LIMITS. THE CONTRACTOR SHALL MONITOR THE EFFECTIVENESS OF SUCH INLET PROTECTION AND PROVIDE ADDITIONAL PROTECTION IF WARRANTED. NO SEDIMENTS ARE INTENDED TO ENTER THE CURB INLETS. THE CONTRACTOR SHALL CONDUCT AND MAINTAIN THE WORK IN SUCH CONDITION TO PROVIDE ADEQUATE DRAINAGE AT ALL TIMES AND SHALL MONITOR THE PERFORMANCE OF THE STORM WATER INLETS WHILE IMPEDED BY THE INLET PROTECTION. STREET FLOODING IS NOT TO BE INTRODUCED AS A RESULT OF THE INLET PROTECTION. SAFETY OF THE TRAVELING PUBLIC, AS RELATED TO THE ADEQUACY OF THE DRIVING SURFACE AS A RESULT OF STANDING STORMWATER RUNOFF CREATED BY THE INTRODUCTION OF INLET PROTECTION, IS THE RESPONSIBILITY OF THE CONTRACTOR.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A CLEAN WORK ZONE TO LIMIT THE RELEASE OF SEDIMENTS INTO STORMWATER COLLECTION SYSTEMS AND TO LIMIT THE TRACKING OF MATERIALS BEYOND THE ACTIVE WORK LIMITS. THE CONTRACTOR IS REQUIRED TO MECHANICALLY SWEEP THE ACTIVE CONSTRUCTION LIMITS TO REMOVE SEDIMENTS AND LIKE MATERIALS FROM THE CORRIDOR AT THE END OF EACH WORKDAY. ADDITIONAL OR MORE FREQUENT SWEEPING MAY BE REQUIRED BY THE JEA APPOINTED CONSTRUCTION INSPECTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES AND LANDSCAPING ON ADJACENT PROPERTIES, AND WILL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION ON PROPERTIES ADJACENT TO CONSTRUCTION WORK ZONES. ALL TREES WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS TO BE REMOVED. ALL TREES OUTSIDE THE CONSTRUCTION WORK ZONE ARE TO BE PROTECTED TO THE MAXIMUM EXTENT PRACTICABLE. TREE BARRICADES WILL BE INSTALLED AND MAINTAINED AROUND ALL TREES TO BE PROTECTED OR AS DIRECTED BY THE ENGINEER/JEA APPOINTED CONSTRUCTION INSPECTOR. THE CONTRACTOR SHALL EMPLOY A CERTIFIED ARBORIST TO MITIGATE IMPACTS TO TREES AS A RESULT OF CONSTRUCTION ACTIVITIES AND SHALL COORDINATE THESE TREE- RELATED ISSUES WITH THE JEA APPOINTED CONSTRUCTION INSPECTOR. NO TRENCHING OR EXCAVATION SHALL BE ALLOWED WITHIN THE CRITICAL PROTECTION ZONE OF ANY PROTECTED TREE, EXCEPT WHERE DEBITS HAVE BEEN NOTED ON THE PLANS OR MITIGATION HAS BEEN PERFORMED. ANY TREE- RELATED DAMAGE DUE TO CONSTRUCTION SHALL BE PAID BY THE CONTRACTOR.
- ALL DISTURBED AREAS, EXCEPT FOR AREAS THAT ARE LANDSCAPED, PAVED, OR OTHERWISE DESIGNATED, ARE TO BE SODDED. EXISTING GRASSED AREAS THAT ARE DISTURBED WILL BE SODDED WITH THE SAME GRASS TYPE AS EXISTING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. CENTIPEDS SOD WILL BE USED FOR ALL DISTURBED AREAS NOT CURRENTLY GRASSED. WHERE SOD IS PLACED ON SLOPES OF 2:1 OR STEEPER, AN EROSION MAT WILL BE INSTALLED BENEATH THE SOD, AND THE SOD WILL BE STAKED. AREAS THAT ARE SODDED SHALL BE FERTILIZED AT AN APPLICATION RATE OF 450 LBS. /AC AND WILL BE WATERED AT A RATE OF 5,000 GAL/AC. NO SEPARATE PAYMENT WILL BE MADE AND ALL COSTS FOR FERTILIZING, WATERING, STAKING, AND FURNISHING AND INSTALLING EROSION MAT SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS IN THE CONTRACT.
- A DEWATERING PLAN IS REQUIRED AND SHALL DETAIL THE MEASURES TO BE EMPLOYED TO LOWER THE GROUNDWATER TABLE AND/OR TO DIVERT SURFACE WATER DURING EXCAVATION AND CONSTRUCTION INCLUDING THE INSTALLATION AND MAINTENANCE OF ALL DEVICES TO BE USED DURING EACH PHASE OF CONSTRUCTION TO CONTROL EROSION AND THE TRANSPORTATION OF ERODED MATERIALS OFF SITE. TRENCH SHEETING AND BRACING SHALL BE ADEQUATE TO PREVENT CAVE- IN OF TRENCH WALLS, SUBSIDENCE OF AREAS ADJACENT TO THE TRENCH, DAMAGE TO UTILITIES, AND SLOUGHING OF THE BASE OF THE EXCAVATION DUE TO WATER SEEPAGE. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL DEWATERING ACTIVITIES ADHERE TO ALL LOCAL, STATE AND FEDERAL REGULATIONS. IT IS THE CONTRACTORS RESPONSIBILITY FOR THE ADEQUACY OF ANY SHEETING AND BRACING. THE COST OF DEWATERING, SHEETING AND BRACING IS CONSIDERED INCIDENTAL TO THE PAY ITEMS IN THE CONTRACT. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
- PAYMENT FOR PREPARING AND SUBMITTING THE DEWATERING PLAN IS CONSIDERED INCIDENTAL TO THE PAY ITEMS IN THE CONTRACT. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
- ALL DISTURBED AREAS TO BE LEFT IDLE LONGER THAN 14 DAYS MUST BE STABILIZED WITH QUICK GROW GRASS SEED AND MULCH.



D INLET PROTECTION
NTS



NOTE: FOR GROUPS OF TREES, PLACE BARRICADES BETWEEN TREES AND CONSTRUCTION ACTIVITY.



- NOTES:
- CRITICAL PROTECTION ZONE: THE AREA SURROUNDING A TREE WITHIN A CIRCLE DESCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE TRUNK DIAMETER AT 54" ABOVE FINISHED GRADE. FOR GROUPS OF TREES, PLACE BARRICADES BETWEEN TREES AND CONSTRUCTION ACTIVITY.
 - TREE PROTECTION BARRICADES SHALL BE LOCATED TO PROTECT A MINIMUM OF 75% OF THE CRITICAL PROTECTION ZONE.

E TREE PROTECTION
NTS

PURSUANT TO A.A.N. STANDARDS CALIPER MEASUREMENTS SHALL BE MADE 6 INCHES ABOVE GROUND LEVEL (ROOTBALL) UP TO AND INCLUDING 4 INCH CALIPER; 12 INCHES ABOVE GROUND LEVEL FOR LARGER SIZES.

("DUCKBILL" GUYING SYSTEM IS AN ACCEPTABLE ALTERNATIVE TO BELOW)

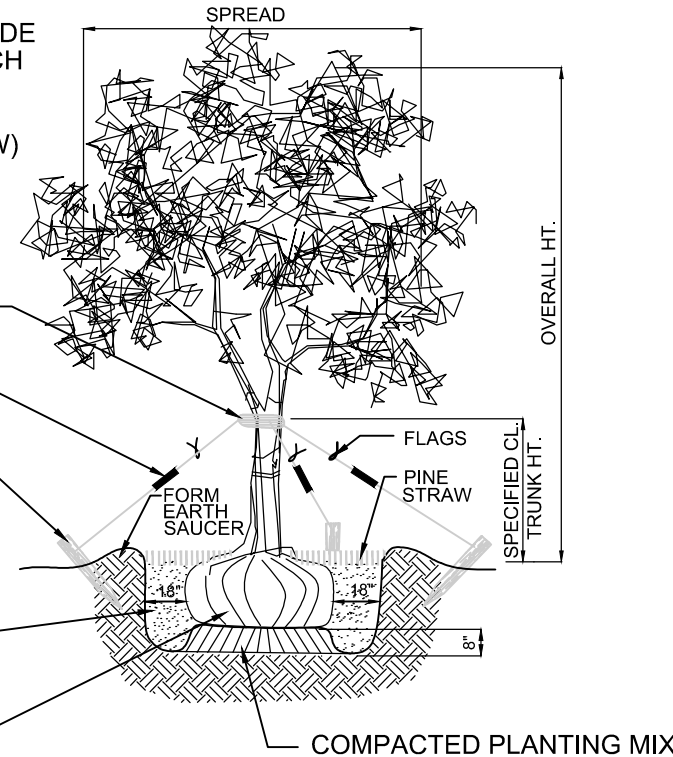
PLANT SO THAT TOP OF ROOT BALL IS EVEN WITH THE FINISHED GRADE

FLAG GUYING WIRES WITH SAFETY ORANGE COLORED SURVEYOR'S FLAGGING TAPE

MAINTAIN GUYING & SAFETY FLAGS FOR ONE YEAR; THEN REMOVE

RUBBER HOSE 1" DIA. (8" MIN.) TO PROTECT BARK FROM WIRE
3) GUYING WIRES 2 STRAND TWIST 12 GAUGE WIRE W/ TURNBUCKLE
3) 2"x4"x24" PRESSURE TREATED STAKES - TOP OF STAKE ABOVE GROUND PAINT W/SAFETY ORANGE HIGH GLOSS PAINT

SPECIFIED PLANTING MIX WATER & TAMP TO REMOVE AIR POCKETS REMOVE CONTAINER

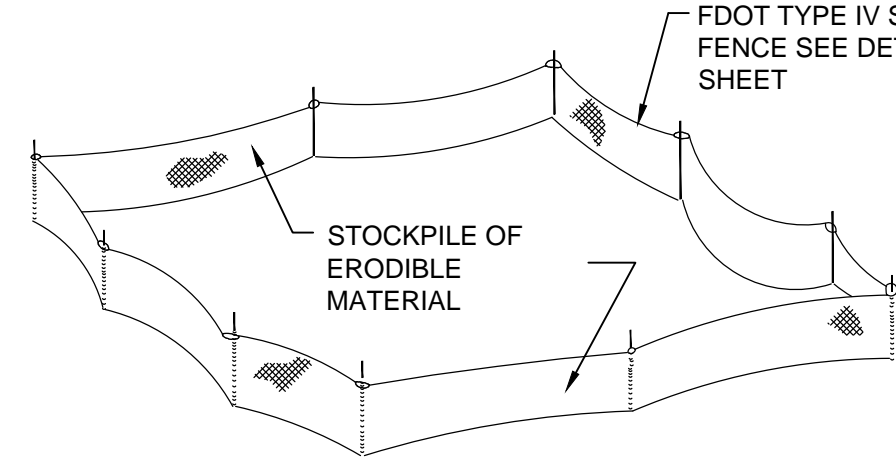


TREE TRUNK DIAMETER	SETUP (SINGLE/DOUBLE)	WATER CAPACITY (PER BAG)	FILLS REQ'D PER WEEK
2 TO 3 INCH	SINGLE BAG	14.5 GALLONS	2 FILLS PER WEEK
4 TO 5 INCH	DOUBLE BAG	23.5 GALLONS	1 FILL PER WEEK

F TREE PLANTING
NTS

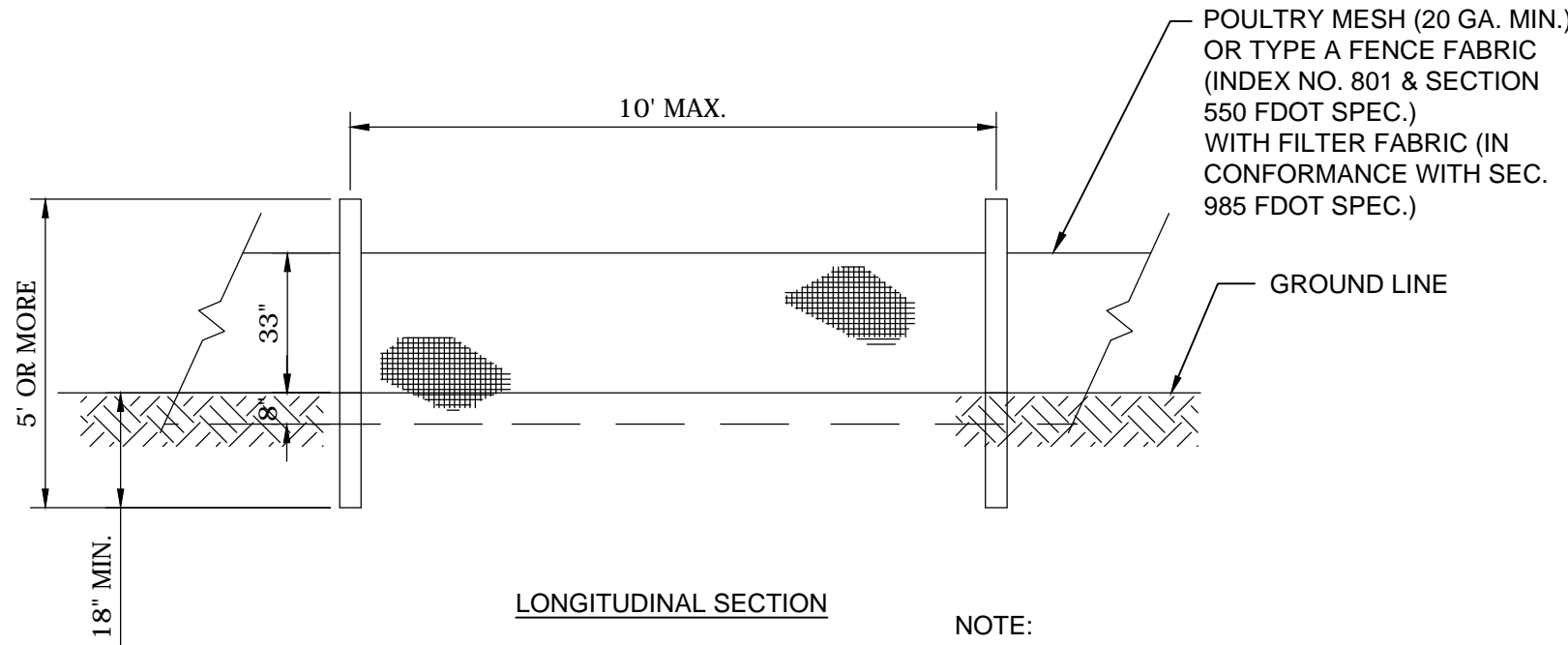
A SILT FENCE APPLICATIONS
NTS

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

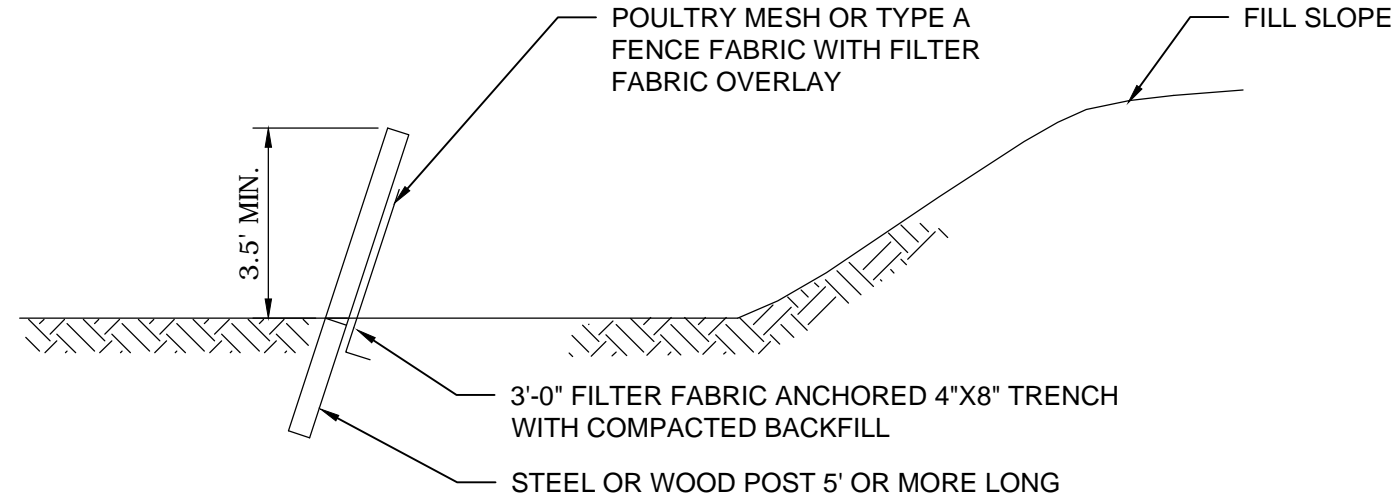


NOTE: THE STORAGE OF ALL MATERIAL SHALL BE OUTSIDE THE 100-YEAR FLOOD PLAIN.

B MATERIAL STOCKPILE DETAIL
NTS



NOTE: SEE FDOT INDEX 102.



C TYPE IV SILT FENCE
NTS

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Jacksonville, Florida 32296
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Architect AA - 00000035
Engineer EE - 00000035
Surveyor SS - 00000035

REVISIONS	
NO.	DATE
1	
2	
3	
4	
5	

DESIGN ENGINEER

BRUCE A. NEU

FLORIDA REGISTRATION NO. 51672

DESIGNER: F. NGUYEN

DRAWN BY: B. LEE

DATE: MAY 2020

CHECKED BY: F. NGUYEN

DATE: MAY 2020

JEA

Building Community

5TH STREET WEST 20" FORCE MAIN EXTENSION

STANDARD CIVIL DETAILS

PROJ. NO. 502402368

DATE: MAY 2020

SCALE: AS NOTED

NO. SHEETS 82

SHEET NO. 48

DRAWING NO. CD-7

PERMIT SUBMITTAL

TEMPORARY TRAFFIC CONTROL GENERAL NOTES

1. ALL TTC SHALL BE IN CONFORMANCE WITH MUTCD STANDARDS.
2. CONTRACTOR SHALL NOTIFY THE CITY OF JACKSONVILLE TRAFFIC ENGINEERING DIVISION, RONALD THIGPEN (904-255-8704) OR THE MAIN OFFICE (904-255-7533) A MINIMUM OF 5 WORKING DAYS PRIOR TO IMPLEMENTATION OF THE TTC.
3. THE CONTRACTOR SHALL PROVIDE THE CITY OF JACKSONVILLE TRAFFIC ENGINEERING DIVISION WITH THE NAME OF THE PERSON ON THE CONTRACTOR'S STAFF DESIGNATED TO BE RESPONSIBLE FOR THE IMPLEMENTATION OF ALL PHASES OF TTC PRIOR TO THE BEGINNING OF CONSTRUCTION.
4. ANY EXISTING PAVEMENT MARKINGS WHICH ARE REMOVED FOR TTC PURPOSES SHALL BE REPLACED BEFORE COMPLETION OF THE PROJECT.
5. THE REFLECTIVE SHEETING ON SIGNS, DRUMS OR BARRICADES SCRATCHED OR DAMAGED TO THE POINT THAT REFLECTIVITY IS IMPAIRED SHALL BE REPLACED. DAMAGED, DEFACED OR DIRTY SIGNS, CONES OR BARRICADES SHALL IMMEDIATELY BE REPAIRED, REPLACED OR CLEANED BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING FORMAL TTC INSPECTIONS AND SHALL IMMEDIATELY REPLACE ALL EQUIPMENT AND DEVICES NOT CONFORMING TO FDOT STANDARDS. THESE INSPECTIONS SHALL TAKE PLACE AT LEAST ONCE A DAY AND SOME OF THESE INSPECTIONS SHALL BE CONDUCTED AT NIGHT. THE JEA SHALL BE ADVISED OF THE SCHEDULE OF THE INSPECTIONS AND BE GIVEN THE OPPORTUNITY TO JOIN IN THE INSPECTION.
7. SHORT TERM STOPPING OR PARKING OF A VEHICLE, OR PLACING ANYTHING ELSE NEXT TO THE WORK AREA (FOR EXAMPLE, A STACK OF CONES, PARKED CONSTRUCTION EQUIPMENT/VEHICLES, ETC.) CREATES A CHANNEL EFFECT WHICH CAN ADVERSELY AFFECT TRAFFIC FLOW. THEREFORE, ALL CONSTRUCTION EQUIPMENT SHALL BE PLACED A MINIMUM OF 15 FEET FROM THE TRAVEL LANE WHEN NOT IN USE.
8. ALL DROP OFFS ALONG CONSTRUCTION WORK AREAS SHALL BE HANDLED AS PER FDOT STANDARD DRAWING INDEX 102-600 (FY 20-21).
9. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER EMERGENCY CONDITIONS MAY REQUIRE THE OWNER TO MODIFY ANY CHANNELIZATION SHOWN IN THESE PLANS, THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS, AS DIRECTED BY THE CITY OF JACKSONVILLE TRAFFIC ENGINEERING DIVISION OR THE JEA, WITHOUT DELAY.
10. TEMPORARY PAVEMENT, IF REQUIRED, SHALL CONSIST OF 1" OF TYPE S-III OR S-1 ASPHALT ON 6" OF LIMEROCK.
11. DUST CONTROL MEASURES SHALL BE IMPLEMENTED ON ALL UNPAVED SURFACES UNTIL PAVED OR GROUND COVER IS ESTABLISHED.
12. THE CONTRACTOR SHALL RETURN THE GROUND TO ITS ORIGINAL CONDITION AND ELEVATION WHEN REMOVING ANY TEMPORARY PAVEMENT.
13. THE CONTRACTOR SHALL, AS REQUIRED, PROVIDE TEMPORARY DRAINAGE DURING CONSTRUCTION, AS NEEDED.
14. SINCE WORK IN SOME AREAS (i.e. WORK ZONES 7, 7A AND 24) INVOLVES PERIODS WHERE THE ACCESS IS COMPLETELY BLOCKED FOR RESIDENTIAL TRAFFIC, THE CONTRACTOR SHALL MAINTAIN A METHOD FOR:
 - a. PROVIDING CONVENIENT TRANSPORTATION FOR CITIZENS TO ACCESS THEIR HOMES (GOLF CART OR GATOR FOR TRANSPORTING RESIDENTS).
 - b. CLOSING THE OPEN TRENCH TO PROVIDE TO PROVIDE EMERGENCY VEHICLES ACCESS TO THE RESIDENT'S HOMES (STEEL PLATES TO SPAN THE TRENCH OPENING QUICKLY).

SPECIAL FLAGGER CONTROL NOTES

1. THE CONTRACTORS SELECTION OF MEANS, METHODS, TECHNIQUES AND SEQUENCE OF CONSTRUCTION MAY REQUIRE PERIODIC FLAGGER CONTROL.
2. IT MAY BE ADVISABLE TO EMPLOY FLAGGERS FOR THE SAFETY OF THE MOTORING PUBLIC WHEN MOVING EQUIPMENT AND HANDLING MATERIAL.
3. IT WILL BE INCUMBENT UPON THE CONTRACTOR TO DETERMINE WHEN HIS OR HER OPERATIONS REQUIRE FLAGGER CONTROL.

TEMPORARY TRAFFIC CONTROL HURRICANE NOTE

1. IN THE EVENT A HURRICANE IS THREATENING THE JACKSONVILLE AREA, IMPLEMENTATION OF THESE TTC PLANS SHALL BE HELD IN ABEYANCE UNTIL THE THREAT PASSES.

PEDESTRIAN ACCESS REQUIREMENTS

1. THE CITY OF JACKSONVILLE PROHIBITS MID-BLOCK CROSSING OF PEDESTRIANS. WHEN AN ALTERNATIVE ROUTE IS NOT FEASIBLE, CONTRACTOR SHALL PROVIDE AN ADA COMPLIANT PEDESTRIAN PATHWAY THROUGH THE WORK ZONE WHEN SIDEWALK IS CLOSED.
2. COSTS FOR PEDESTRIAN ACCESS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR TEMPORARY TRAFFIC CONTROL.
3. IF SIDEWALKS ARE DISTURBED AND HAVE TO BE REPLACED, ADA COMPLIANT RAMPS WITH DETECTABLE WARNINGS ARE TO BE INSTALLED IN ACCORDANCE WITH FOOT STANDARD PLANS.











CITY OF JACKSONVILLE TEMPORARY TRAFFIC CONTROL STANDARD NOTES

1. ACCESS FOR LOCAL TRAFFIC WITH DESTINATIONS WITHIN THE WORK AREA SHALL BE MAINTAINED TO THE EXTENT SAFETY WILL PERMIT.
2. ACCESS TO INTERSECTING SIDE STREETS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE NOTED WITHIN THESE TTC PLANS.
3. IT IS ANTICIPATED THAT ALL EXISTING SIDEWALKS WILL REMAIN OPEN AND ACCESSIBLE DURING CONSTRUCTION.
4. ANY MODIFICATIONS TO THESE TEMPORARY TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE CITY OF JACKSONVILLE TRAFFIC ENGINEERING DIVISION FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
5. THE CONTRACTOR HAS THE OPTION TO SUBMIT ALTERNATIVE TRAFFIC CONTROL PLANS FOR APPROVAL BY THE CITY OF JACKSONVILLE TRAFFIC ENGINEERING DIVISION. ALTERNATE TRAFFIC CONTROL PLANS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND SHALL BE CONSISTENT WITH STANDARD TTC DESIGN PRACTICES. NO CONSTRUCTION ACTIVITY WILL BE ALLOWED UNTIL THE CONTRACTOR'S TTC PLANS ARE APPROVED IN WRITING.
6. THE ROADWAY SHALL BE RESTORED TO AT LEAST COJ CASE X, TEMPORARY REPAIR BEFORE IT IS REOPENED TO TRAFFIC AND BEFORE THE CONTRACTOR MOVES TO THE NEXT CONSTRUCTION ZONE.
7. CONTRACTOR IS ALLOWED TO USE UP TO A MAXIMUM OF 500 LINEAR FEET OF STEEL PLATE IN LIEU OF HOT MIX ASPHALT TEMPORARY PAVEMENT REPAIR. CONTRACTOR TO REMOVE ALL STEEL PLATE AND RESTORE EXCAVATION AREA SUBJECT TO VEHICULAR TRAFFIC WITH HOT MIX ASPHALT AT LEAST WEEKLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF STEEL PLATE THICKNESS DEPENDING ON THE WIDTH OF THE TRENCH.
8. NO LANE CLOSURES ARE ALLOWED FROM 7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 7:00 P.M. MONDAY THROUGH FRIDAY.
9. THE CONTRACTOR SHALL COORDINATE TRAFFIC SIGNAL OPERATION WITHIN THE TRAFFIC ENGINEERING DIVISION.
10. TRAFFIC SIGNAL LOOPS SHALL BE RESTORED TO PROPER OPERATION WITHIN 36 HOURS OF BEING DESTROYED OR DAMAGED. CONTACT MIKE CAMACHO AT (904-255-7533) A MINIMUM OF 48 HOURS PRIOR TO CUTTING ANY VEHICLE LOOPS.
11. TRAFFIC SIGNAL ACTUATION SHALL BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE TRAFFIC ENGINEERING DIVISION. INFRARED-DETECTION MAY BE USED IF REQUIRED.

TEMPORARY TRAFFIC CONTROL SIGNING NOTES

1. THE CONTRACTOR SHALL INSURE THAT PERMANENT SIGNS DO NOT CONFLICT WITH TTC SIGNS. THE CONTRACTOR SHALL COVER ALL SIGNS, BOTH PERMANENT AND TEMPORARY, THAT CONFLICT WITH TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS.
2. THE EXISTING POSTED SPEED LIMIT SIGNS SHALL REMAIN THROUGHOUT ALL PHASES UNLESS OTHERWISE NOTED. THE CONTRACTOR MAY ADD ORANGE AND BLACK ADVISORY SPEED PLATES TO EXISTING SPEED LIMIT SIGNS.
3. ANY EXISTING STREET AND ROAD NAME SIGNS THAT ARE IMPACTED BY CONSTRUCTION SHALL BE TEMPORARILY RELOCATED AND KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLE TRAFFIC.
4. CONTRACTOR MUST MAINTAIN EXISTING SIGNING. IF SIGNS ARE DAMAGED DUE TO HIS ACTIVITY, THE CONTRACTOR IS REQUIRED TO REPLACE THEM IN ACCORDANCE WITH CURRENT CITY STANDARD SPECIFICATIONS AT NO ADDITIONAL COST TO JEA.

TTC LEGEND

	WORK ZONE
	CHANNELIZING DEVICE
	TYPE III BARRICADE
	TEMPORARY TRAFFIC CONTROL SIGN
	PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN (PCMS)
	ADVANCE WARNING ARROW BOARD
	LANE IDENTIFICATION PLUS DIRECTION OF TRAFFIC
	WORK ZONE SIGN
	FLAGGER
	TRENCHLESS CONSTRUCTION PIT

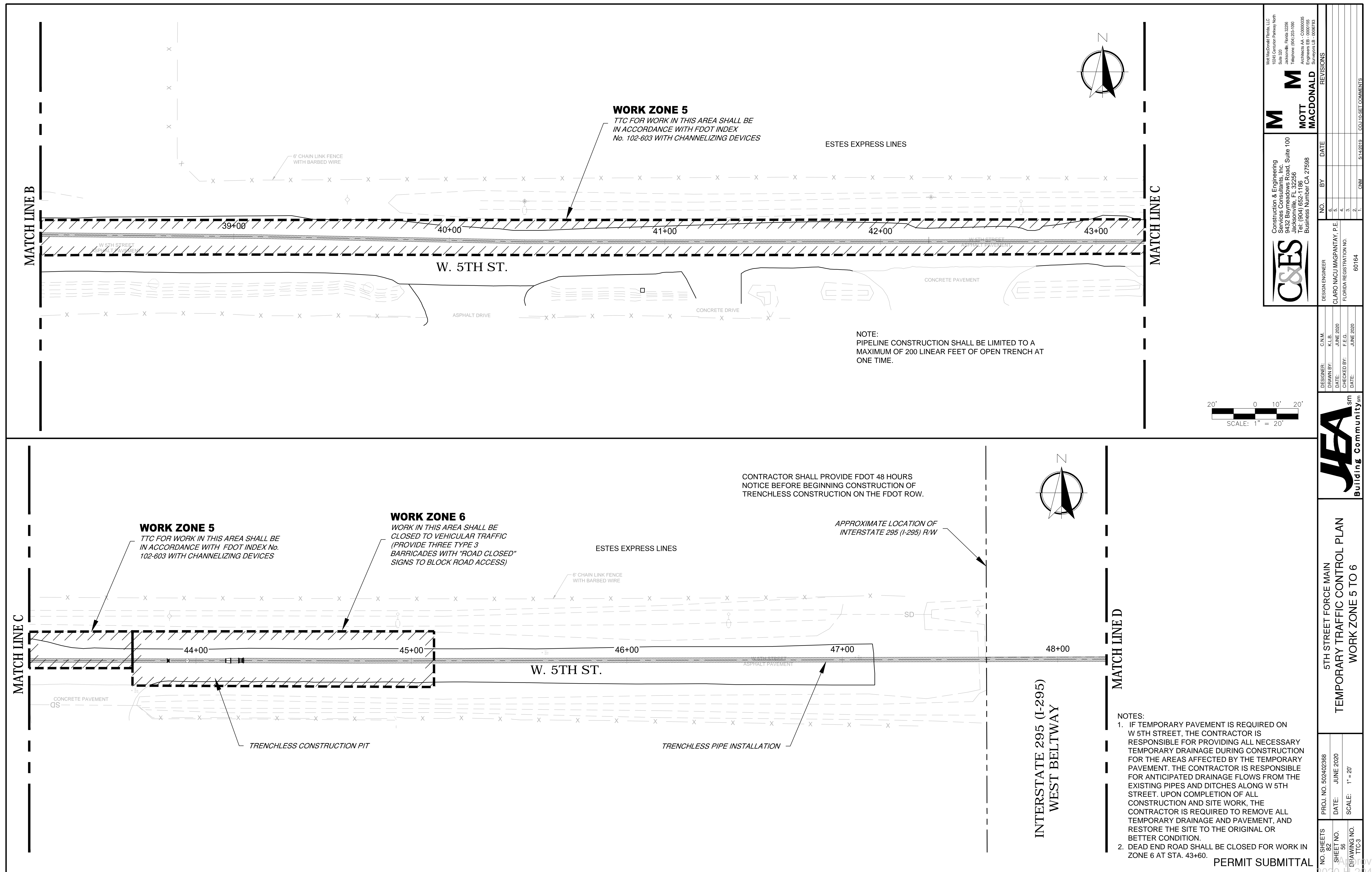
THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED
BY Claro N. Magpantay, P.E. ON

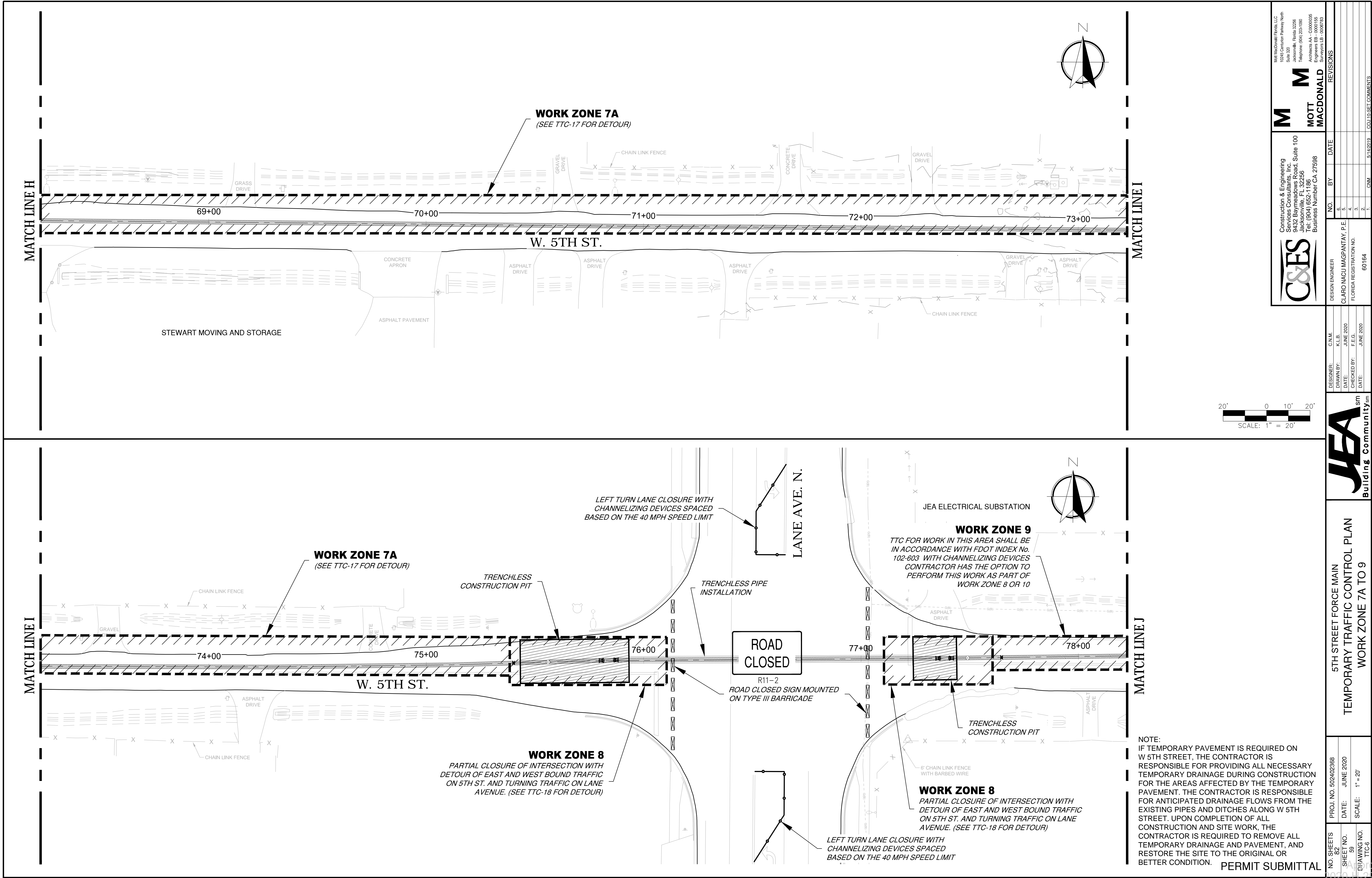
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED
SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON
THE ELECTRONIC DOCUMENTS.

C&ES
CONSTRUCTION & ENGINEERING SERVICES CONSULTANTS, INC.
9432 BAYMEADOWS ROAD, SUITE 100
JACKSONVILLE, FL 32256
CERTIFICATE OF AUTHORIZATION #27598
E.O.R.: Claro N. Magpantay, P.E., No. 60164

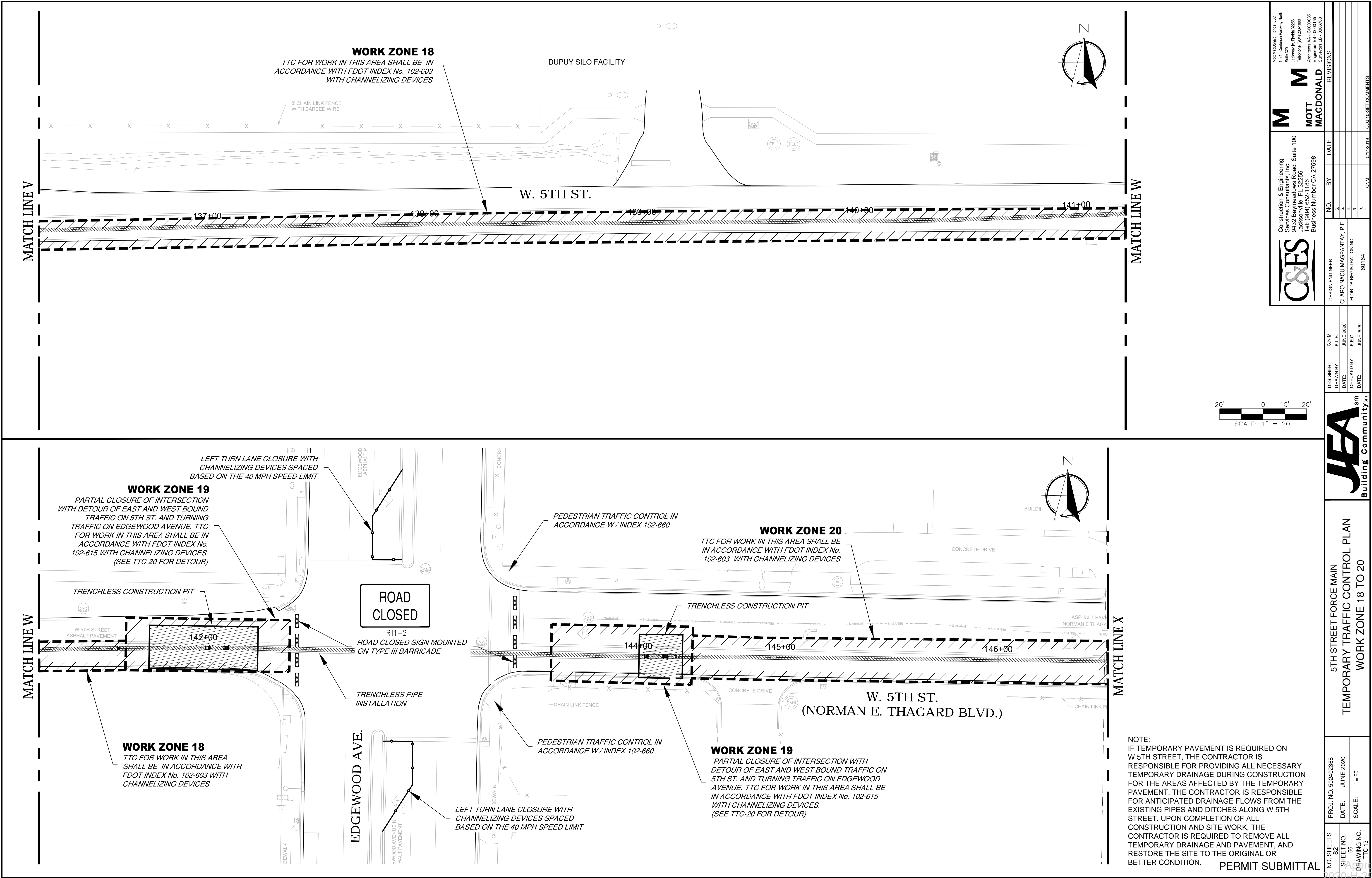
THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.: GS-1, TTC-1 TO TTC-28

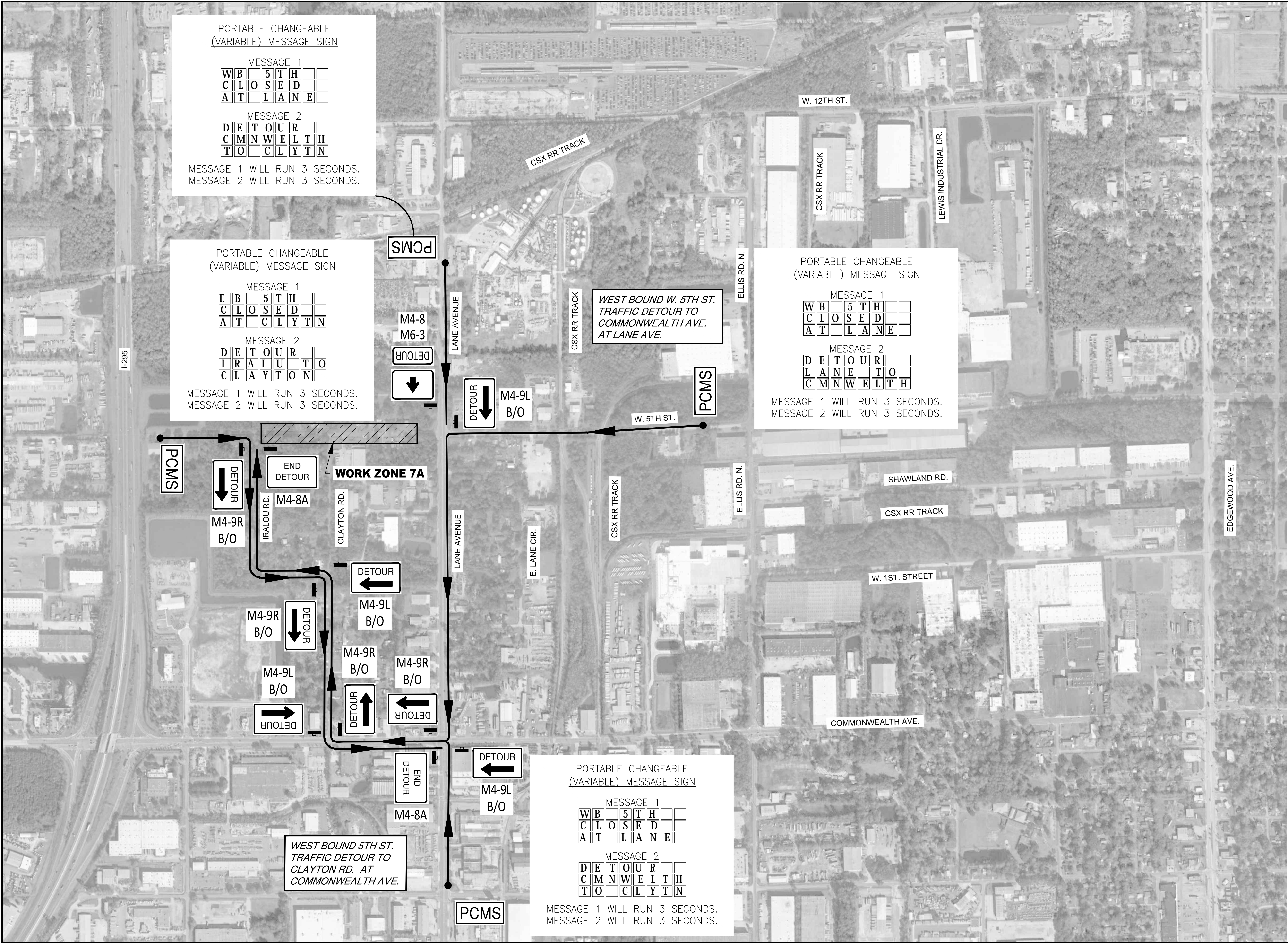
PERMIT SUBMITTAL



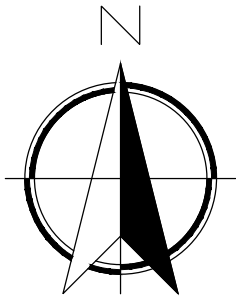





<div><div><div>Construction & Engineering Services, Inc. 9432 Baymeadows Road, Suite 100 Jacksonville, FL 32256 Tel: (904) 652-1186 Business Number CA 27598</div><div><div>C&ES</div><div>Construction & Engineering Services, Inc.</div></div></div><div><div>Mott MacDonald Florida, LLC 10000 International Parkway North Suite 300 Jacksonville, Florida 32256 Telephone: (904) 225-1090 Architects AA - C0000039 Engineers EB - 0000165 Surveyors LB - 0000783</div><div><div>M</div><div>MOTT MACDONALD</div></div></div></div>		<div>DESIGN ENGINEER CLARO MACU MAGPANTAY, P.E. FLORIDA REGISTRATION NO. 60164</div> <div>DESIGNER: C.M.M. DRAWN BY: K.L.B. DATE: JUNE 2020 CHECKED BY: F.E.G. DATE: JUNE 2020</div>		<div>NO. SHEETS 82</div> <div>SHEET NO. 59</div> <div>DRAWING NO. TTC-8</div> <div>PROJ. NO. 502402368</div> <div>DATE: JUNE 2020</div> <div>SCALE: 1" = 20'</div>		<div>5TH STREET FORCE MAIN TEMPORARY TRAFFIC CONTROL PLAN WORK ZONE 7A TO 9</div> <div>5TH STREET FORCE MAIN TEMPORARY TRAFFIC CONTROL PLAN WORK ZONE 7A TO 9</div>		<div>NO. BY DATE</div> <div>6. 5. 3. 2. 1.</div> <div>NO. BY DATE</div> <div>6. 5. 3. 2. 1.</div>		<div>REVISIONS</div> <div>6. 5. 3. 2. 1.</div> <div>NO. BY DATE</div> <div>6. 5. 3. 2. 1.</div>		<div>COMMENTS</div> <div>6. 5. 3. 2. 1.</div> <div>NO. BY DATE</div> <div>6. 5. 3. 2. 1.</div>	
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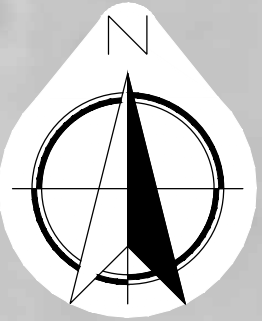
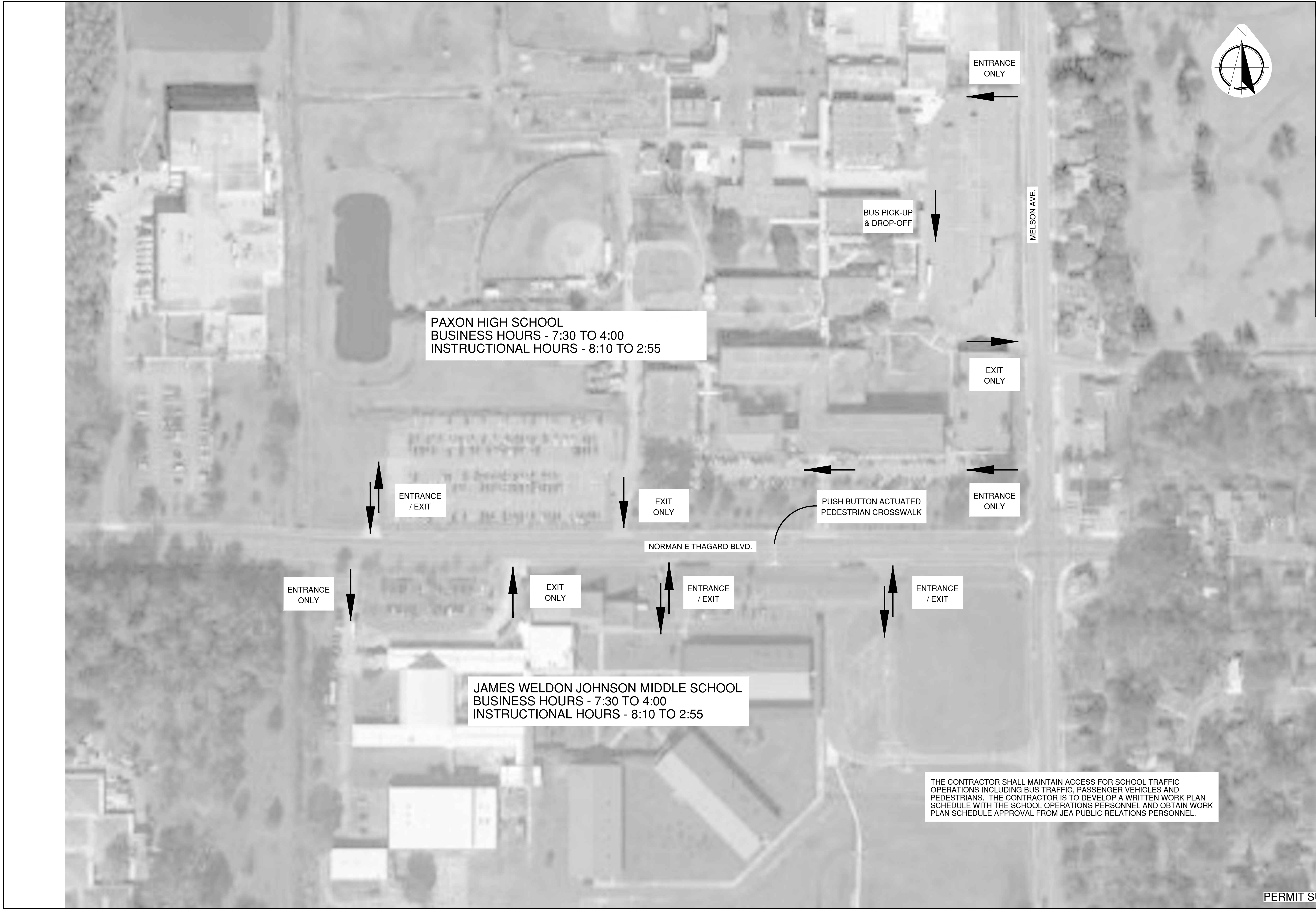


PERMIT SUBMITTAL



SUBMITTAL		PROJ. NO. 50204268		5TH STREET FORCE MAIN				DESIGN ENGINEER		CONSTRUCTION & ENGINEERING 9432 Baymeadows Road, Suite 100 Jacksonville, FL 32256 Tel: (904) 652-1186 Business Number CA 27598				MOTT MACDONALD			
NO. SHEETS 82		DATE: JUNE 2020		TEMPORARY TRAFFIC CONTROL PLAN		DESIGNER CLARO NACU MAGPANTAY, P.E.		NO.		BY		DATE		REVISIONS		REVISIONS	
SHEET NO. 70		SCALE: NTS		WORK ZONE 7A DETOUR		CHECKED BY: F.E.G.		5.									
DRAWING NO. TTC-17						DATE: JUNE 2020		3.									
								1.		CMM		5/14/2019				COT 10-SET COMMENTS	





PAXON HIGH SCHOOL
BUSINESS HOURS - 7:30 TO 4:00
INSTRUCTIONAL HOURS - 8:10 TO 2:55

JAMES WELDON JOHNSON MIDDLE SCHOOL
BUSINESS HOURS - 7:30 TO 4:00
INSTRUCTIONAL HOURS - 8:10 TO 2:55

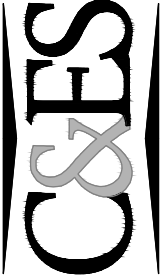
BUS PICK-UP
& DROP-OFF

MELSON AVE.

NORMAN E THAGARD BLVD.

THE CONTRACTOR SHALL MAINTAIN ACCESS FOR SCHOOL TRAFFIC OPERATIONS INCLUDING BUS TRAFFIC, PASSENGER VEHICLES AND PEDESTRIANS. THE CONTRACTOR IS TO DEVELOP A WRITTEN WORK PLAN SCHEDULE WITH THE SCHOOL OPERATIONS PERSONNEL AND OBTAIN WORK PLAN SCHEDULE APPROVAL FROM JEA PUBLIC RELATIONS PERSONNEL.

PERMIT SUBMITTAL



Construction & Engineering
Surveying
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M

MOTT
MACDONALD

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Jacksonville, Florida 32286
Telephone: (904) 205-1090
Architects AA - C0000039
Engineers EE - 0000165
Surveyors LS - 0000783

DESIGNER		C.N.M.		DESIGN ENGINEER		NO.		BY		DATE		REVISIONS		
DRAWN BY:	DATE:	K.L.B.	JUNE 2020	CLARO NACU MAGPANTAY, P.E.	6.									
CHECKED BY:	DATE:	F.E.G.	JUNE 2020	FLORIDA REGISTRATION NO.	5.									
					3.									
					2.									
					1.									
												60164	5/14/2019	COO-10-SET COMMENTS

5TH STREET FORCE MAIN
TRAFFIC FLOW PLAN AT SCHOOLS
WORK ZONES 22, 23 AND 24






NO. SHEETS
82
SHEET NO.
77
DRAWING NO.
TTC-24

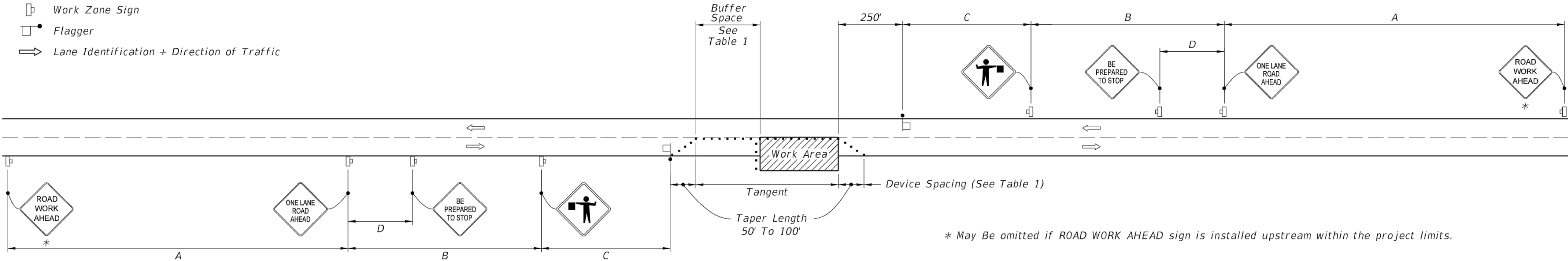
PROJ. NO. 502402368
DATE: JUNE 2020
SCALE: NTS

JEA
Building Community

Approved
2020 JUN 24 04:00:451
Anonymous User
6/24/2020

SYMBOLS:

-  Work Area
-  Channelizing Device (See Index 102-600)
-  Work Zone Sign
-  Flagger
-  Lane Identification + Direction of Traffic



WITHOUT TEMPORARY RAISED RUMBLE STRIPS

GENERAL NOTES:

- Special Conditions may be required in accordance with these notes and the following sheets:
 - Railroad Crossings:
 - If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 3.
 - If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.
 - If the Work Area encroaches on the Centerline, use the Layout for Temporary Lane Shift to Shoulder on Sheet 3 only if the Existing Paved Shoulder width is sufficient to provide for an 11' lane between the Work Area and the Edge of Existing Paved Shoulder. Reduce the posted speed when appropriate.
 - Temporary Raised Rumble Strips:
 - Use when both of the following conditions are met concurrently:
 - Existing Posted Speed is 55 mph or greater;
 - Work duration is greater than 60 minutes.
 - Use a consistent Strip color throughout the work zone.
 - Place each Rumble Strip Set transversely across the lane at locations shown.
 - Use Option 1 or Option 2 as shown on Sheet 2. Use only one option throughout work zone.
 - Additional one-way control may be provided by the following means:
 - Flag-carrying vehicle;
 - Official vehicle;
 - Pilot vehicles;
 - Traffic signals.
- When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times.
- When a side road intersects the highway within the TTC zone, place additional TTC devices in accordance with other applicable TCZ Indexes.
 - The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
 - When Buffer Space cannot be attained due to geometric constraints, use the greatest attainable length, not less than 200 ft, for posted speeds greater than 25 mph.
 - ROAD WORK AHEAD and the BE PREPARED TO STOP signs may be omitted if all of the following conditions are met:
 - Work operations are 60 minutes or less.
 - Speed limit is 45 mph or less.
 - There are no sight obstructions to vehicles approaching the work area for a distance equal to the Buffer Space shown in Table 1.
 - Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
 - Volume and complexity of the roadway has been considered.
 - If a railroad crossing is present, vehicles will not queue across rail tracks.
 - AFADs are not in use.
 - See Index 102-600 for general TCZ requirements and additional information.
 - Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specifications Section 102, 990 and the APL vendor drawings.

TABLE 1									
Posted Speed	DEVICE SPACING				Distance Between Signs				Buffer Space
	Maximum Spacing of Cones or Tubular Markers		Maximum Spacing of Type I or Type II Barricades/Panels/Drums						
	On a Taper	On a Tangent	On a Taper	On a Tangent					
	A	B	C	D					
25	20'	50'	20'	50'	200'	200'	200'	100'	155'
30	20'	50'	20'	50'	200'	200'	200'	100'	200'
35	20'	50'	20'	50'	200'	200'	200'	100'	250'
40	20'	50'	20'	50'	200'	200'	200'	100'	305'
45	20'	50'	20'	50'	350'	350'	350'	175'	360'
50	20'	50'	20'	100'	500'	500'	500'	250'	425'
55	20'	50'	20'	100'	2640'	1500'	1000'	500'	495'
60	20'	50'	20'	100'	2640'	1500'	1000'	500'	570'
65	20'	50'	20'	100'	2640'	1500'	1000'	500'	645'
70	20'	50'	20'	100'	2640'	1500'	1000'	500'	730'

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA BETWEEN THE CENTERLINE AND A LINE 2' OUTSIDE THE EDGE OF TRAVEL WAY.

LAST REVISION
11/01/17

REVISION

DESCRIPTION:



FY 2019-20
STANDARD PLANS

TWO-LANE, TWO-WAY,
WORK WITHIN THE TRAVEL WAY

INDEX

102-603

SHEET

1 of 3

PERMIT SUBMITTAL

Mott MacDonald Florida, LLC
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Jacksonville, Florida 32256
Telephone: (904) 420-1100
Architects AA - C00000056
Engineers EE - C00000056
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Services Consultants, Inc.
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C&ES

DESIGN ENGINEER	NO.	BY	DATE
CLARO MACU MAGPANTAY, P.E. FLORIDA REGISTRATION NO. 60164	6.		
	5.		
	4.		
	3.		
	2.		
	1.	CNM	5/14/2019

DESIGNER	C.N.M.
DRAWN BY:	K.L.B.
DATE:	JUNE 2020
CHECKED BY:	P.E.G.
DATE:	JUNE 2020

JEA Building Communitysm

5TH STREET FORCE MAIN
TEMPORARY TRAFFIC CONTROL DETAILS
FDOT INDEX 102-603

PROJ. NO. 502402068	DATE: JUNE 2020
SCALE: NONE	

NO. 82 SHEETS	SHEET NO. 78
81	DRAWING NO. TTC-25

2020-11-20 4:00:45
Anonymous User
6/24/2020

