



**Location Map**

**CONSTRUCTION PLANS AND DETAILS  
OF  
TORINO PKWY AND TURTLE  
DOVE LN - ROUNDABOUT  
FOR  
THE CITY OF PORT ST. LUCIE  
LYING IN  
SECTION 14, TOWNSHIP 36 SOUTH, RANGE 39 EAST  
ST. LUCIE COUNTY, FLORIDA**



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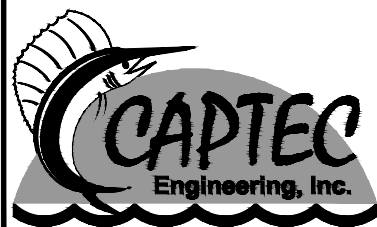
Project No. 1813.25 TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT

**ENGINEER**

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STUART, FLORIDA 34994  
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PUBLIC WORKS DEPARTMENT  
121 SW PORT ST. LUCIE BLVD.  
PORT ST. LUCIE, FLORIDA 34984  
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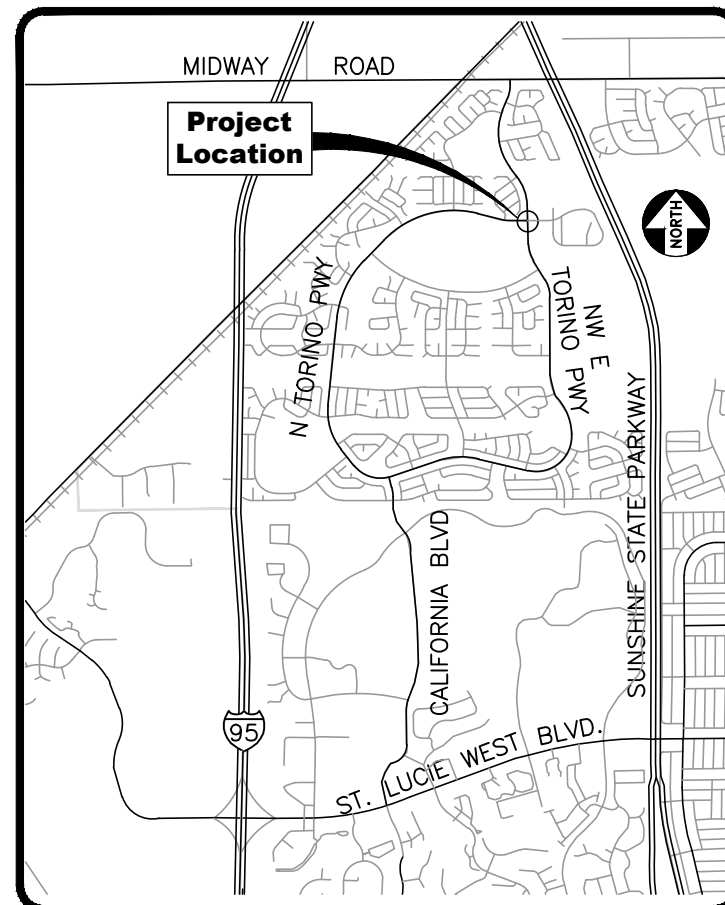


**Civil Engineering Professionals**

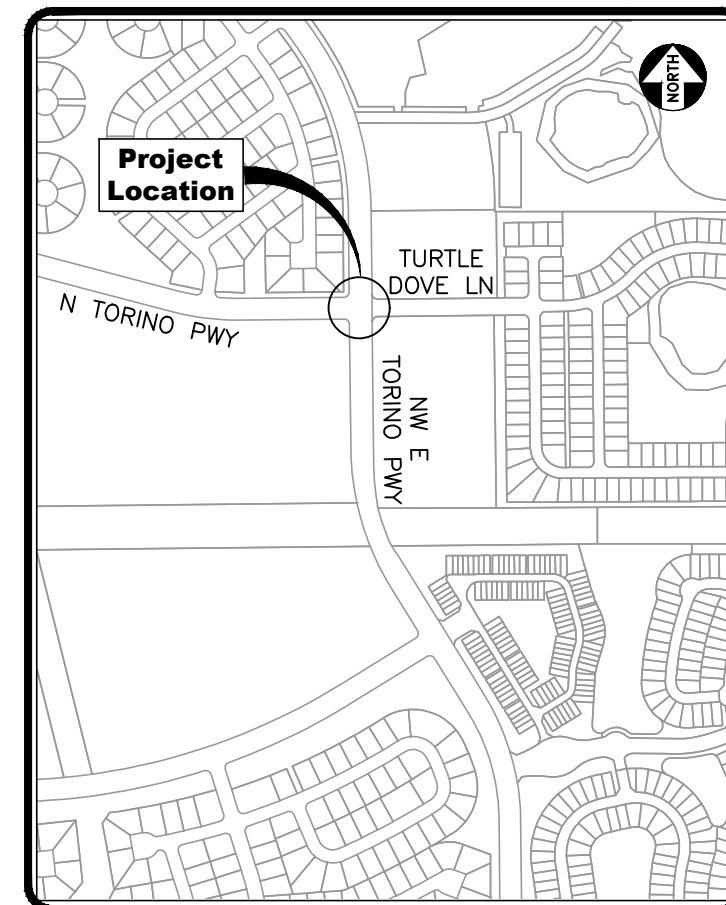
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VERTICAL DATA HEREIN REFERENCES DATUM NAVD 1988.



**VICINITY MAP**



**LOCATION MAP**

TO BE BID WITH NW EAST TORINO PARKWAY  
AND MIDWAY ROAD TURN LANE IMPROVEMENTS

**100% PLANS**  
**4/20/23**

**REVISED 4/20/23**  
**PER CPSL 100% COMMENTS**



**GENERAL NOTES**

- ALL WORK, CONCRETE AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION, INCLUDING ALL REVISIONS, OF THE FOLLOWING STANDARDS AND PUBLICATIONS:
  - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO);
  - AMERICAN CONCRETE INSTITUTE (ACI);
  - AMERICAN SOCIETY FOR TESTING MATERIAL (ASTM);
  - AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG);
  - FDOT ROADWAY DESIGN STANDARDS;
  - FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION;
  - FDOT STRUCTURES STANDARD INDEX.
- THE CONTRACTOR IS TO USE CAUTION WHEN CONSTRUCTING THE PROJECT TO AVOID ALL EXISTING UTILITIES, EXISTING LANDSCAPING FEATURES AND EXISTING DRAINAGE STRUCTURES.
- UNLESS OTHERWISE SHOWN, ALL EXISTING DRAINAGE STRUCTURES, TREES AND UTILITY POLES WITHIN LIMITS OF CONSTRUCTION ARE TO REMAIN.
- PRIOR TO REMOVAL OF EXISTING PAVEMENT OR CONCRETE, SAW CUTS AT THE INTERFACES MUST BE MADE TO REDUCE THE RISK OF DAMAGE TO THE REMAINING SURFACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO PAVEMENT OR CONCRETE SURFACES. ALL DAMAGED AREAS MUST BE REPAIRED TO EXISTING CONDITIONS OR BETTER, AT THE COST OF THE CONTRACTOR, PRIOR TO FINAL PAYMENT.
- ALL DISTURBED AREAS SHALL BE RESTORED TO EXISTING OR BETTER CONDITIONS. THE CONTRACTOR SHALL ONLY BE ENTITLED FOR PAYMENT OF AUTHORIZED AREAS WITHIN THE PROJECT WORK LIMITS AS ILLUSTRATED IN CONSTRUCTION PLANS. CONTRACTOR TO NOTIFY CITY OF PORT ST. LUCIE AND ENGINEER OF RECORD IF WORK IS ANTICIPATED OUTSIDE OF CONSTRUCTION PLANS. THE PROJECT WORK LIMITS SHALL BE ESTABLISHED AND AGREED UPON BY THE CITY OF PORT ST. LUCIE AND CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE UNNECESSARY DAMAGE. ALL DAMAGED AREAS OUTSIDE THE PROJECT WORK LIMITS MUST BE REPAIRED TO EXISTING CONDITIONS OR BETTER, AT THE COST OF THE CONTRACTOR, PRIOR TO FINAL PAYMENT. CONTRACTOR SHALL ALSO TAKE CARE TO AVOID SPRINKLER HEADS AND IRRIGATION LINES, UNLESS AFOREMENTIONED CANNOT BE AVOIDED IN WHICH CASE IRRIGATION LINES WILL BE RELOCATED TO COVER ALL GRASSED AREAS. THIS COST IS INCIDENTAL TO THE CLEARING AND GRUBBING COST.
- ALL ADA DETECTABLE WARNING SURFACES ON NEW CONCRETE SURFACES SHALL BE BRICK COLORED RED CAST IN PLACE. REFER TO FDOT STANDARD INDEX 304 FOR ADDITIONAL REQUIREMENTS.
- ALL DETECTABLE WARNING SURFACES SHALL BE INSTALLED FOLLOWING THE MANUFACTURERS' INSTRUCTIONS FOR INSTALLATION. THE CONTRACTOR SHALL OBTAIN MANUFACTURERS' INSTALLATION CERTIFICATION AND PROVIDE THE CITY OF PORT ST. LUCIE WITH A COPY OF THE CERTIFICATION PRIOR TO INSTALLATION. ALL DETECTABLE WARNING SURFACES WILL BE INSPECTED BY THE CITY OF PORT ST. LUCIE TO INSURE PROPER INSTALLATION IS ACHIEVED.
- PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 711. CONTRACTOR TO ALLOW 20 DAY CURING PERIOD PRIOR TO PLACEMENT OF THERMOPLASTIC.
- THE MAINTENANCE OF TRAFFIC PLAN (MOT) SHALL BE IN ACCORDANCE WITH THE APPLICABLE FDOT INDEX (600 SERIES) AND THE MANUAL ON UNIFORM TRAFFIC CONTROL FOR STREETS AND HIGHWAYS (MUTCD). IF THE STANDARD INDEX TYPICALS DO NOT APPLY TO THE MOT REQUIREMENTS OF THIS PROJECT, THE CONTRACTOR SHALL SUBMIT A SIGNED AND SEALED MOT FOR THE ENGINEER'S APPROVAL PRIOR TO THE WORK BEING PERFORMED. SEE THE TRAFFIC CONTROL PLAN GENERAL NOTES ON SHEET 21 - 24 FOR ADDITIONAL REQUIREMENTS.
- THE CITY OF PORT ST. LUCIE SHALL COORDINATE AND ACQUIRE A SIGNED AGREEMENT WITH THE PROPERTY OWNERS ASSOCIATION (POA) REPRESENTING THE WINTERLAKES SUBDIVISION IN REGARD TO WORK LOCATED WITHIN THEIR OWNERSHIP. THIS WORK IS LIMITED TO PAVEMENT MILLING / OVERLAY & RESTRIPIING THAT IS LOCATED OUTSIDE OF AN EXISTING 100' EASEMENT DEDICATED TO THE CITY OF PORT ST. LUCIE; THIS EASEMENT IS WITHIN RIGHT OF WAY OWNED BY WINTERLAKES SUBDIVISION. CONTRACTOR SHALL NOTIFY POA / SUBDIVISION 48 HOURS IN ADVANCE OF WORK TO BE COMPLETED WITHIN THEIR OWNERSHIP. SHOULD THE POA NOT AUTHORIZE WORK TO BE COMPLETED WITHIN THEIR OWNERSHIP, THE PROJECT SHALL PROCEED AND NOT COMPLETE ANY MILLING / OVERLAY & RESTRIPIING OUTSIDE OF THE 100' EASEMENT.
- ALL FIELD STAKING REQUIRED FOR CONSTRUCTION SHALL BE PERFORMED BY A LICENSED FLORIDA SURVEYOR.
- CONTRACTOR SHALL MAINTAIN BEST MANAGEMENT PRACTICES (BMP'S) AS REQUIRED BY THE REGULATORY AUTHORITIES. THESE BMP'S SHALL INCLUDE, BUT ARE NOT LIMITED TO SILT FENCE AND ANY OTHER MEANS NECESSARY TO PREVENT SEDIMENT DISCHARGE FROM THE DISTURBED AREAS.
- ALL ELEVATIONS, EXISTING AND PROPOSED, ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). SURVEY MONUMENTS SHOWN ON THE ATTACHED SURVEY SHOULD BE LOCATED AND USED TO TIE IN FOR CONSTRUCTION STAKING. IF RECORDED MONUMENTS CANNOT BE FOUND, CONTRACTOR TO CONTACT CITY OF PORT ST. LUCIE SURVEYOR & THE SURVEYOR OF RECORD TO RESOLVE BEFORE PROCEEDING.
- ANY KNOWN OR SUSPECT HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA FROM FURTHER ACCESS. THE ENGINEER IS TO NOTIFY THE PROPER REGULATORY AUTHORITY OF THE DISCOVERY. THE PROPER

REGULATORY AUTHORITY WILL ADVISE/DIRECT THE ENGINEER IN THE INVESTIGATION, IDENTIFICATION AND/OR REMOVAL/REMEDATION OF THE MATERIAL IN QUESTION AS NEEDED. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF SUSPECTED CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE ENGINEER AND/OR THE REGULATORY AUTHORITY.

- THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE ENGINEER. THE CONTRACTOR SHALL PROVIDE A COPY OF THE REQUEST TO THE CITY OF PORT ST. LUCIE PROJECT MANAGER - FRANK KNOTT. THE CONTRACTOR SHALL PROVIDE CITY OF PORT ST. LUCIE PROJECT MANAGER - HEATH STOCTON, P.E. WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE, AND PROVIDE A DESCRIPTION OF THE SPECIFIC MANNER IN WHICH THE MATERIAL WILL BE USED. THE ENGINEER SHALL COORDINATE WITH THE CITY OF PORT ST. LUCIE PROJECT MANAGER - HEATH STOCTON, P.E. PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. BECAUSE SAID LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AS HAZARDOUS MATERIALS, SUCH PRODUCTS DO NOT REQUIRE AN MSDS SUBMITTAL. ALL BULK PETROLEUM PRODUCTS STORED ON SITE SHALL REQUIRE PROPER STORAGE WHICH INCLUDES SECONDARY CONTAINMENT.
- THE CONTRACTOR SHALL REVIEW LOCATION OF PROPOSED STAGING AREAS DEPICTED IN CONSTRUCTION PLANS. ADJUSTMENTS OR MODIFICATIONS TO STAGING AREA LOCATIONS SHALL BE APPROVED BY CITY OF PSL & ENGINEER OF RECORD PRIOR TO CONSTRUCTION - CITY OF PORT ST. LUCIE PROJECT MANAGER - FRANK KNOTT (772) 344-4290. CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH THE CITY OF PORT ST. LUCIE PROJECT MANAGER - FRANK KNOTT (772) 344-4290.
- CONTRACTOR SHALL OBTAIN A NPDES PERMIT PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL USE DILIGENT CAUTION TO COMPLETE ALL WORK WITHIN THE CITY OF PORT ST. LUCIE RIGHT-OF-WAY, AS DESCRIBED IN THE PLANS. IN NO CASE MAY THE CONTRACTOR ENCROACH ON PRIVATELY OWNED PROPERTY.
- CONTRACTOR SHALL PROVIDE THE CITY OF PORT ST. LUCIE 2 HARD COPIES OF SIGNED & SEALED AS-BUILT DRAWINGS FOLLOWING ACCEPTANCE OF CONSTRUCTION. THE AS-BUILT SUBMITTAL SHALL ALSO INCLUDE A COMPACT DISC WITH ALL AS-BUILT CAD FILES AND .PDF FILES OF DELIVERABLES.
- CONTRACTOR SHALL ADJUST SWALE GRADES AS NECESSARY PER THE DIRECTION OF CITY OF PORT ST. LUCIE STAFF AND ENGINEER AT NO ADDITIONAL CHARGE SHOULD FIELD CONDITIONS DICTATE MINOR CHANGES.
- CONTRACTOR SHALL REMOVE ALL LITTER AND MOW ONCE EVERY 30 DAYS DURING THE PROJECT DURATION. COST OF MOWING AND LITTER REMOVALS IS INCIDENTAL TO THE PROJECT.
- DURING CONSTRUCTION, ANY EXISTING PEDESTRIAN PATHS ARE TO REMAIN USABLE AND ACCESSIBLE, OR ALTERNATE ACCESSIBLE PATHS MUST BE PROVIDED. ALTERNATE PATH SURFACE MUST BE ACCEPTABLE TO THE CITY OF PORT ST. LUCIE, PROPERLY DELINEATED, AND SIGNED.
- ALL SOD SHALL MATCH EXISTING.
- ALL SIDEWALKS SHALL BE TOOLED WITHOUT EXPANSION JOINTS.

**UTILITY NOTES**

- THE INDICATED LOCATION OF UNDERGROUND UTILITIES, STRUCTURES AND FACILITIES IS APPROXIMATE, AND REFLECTS THE BEST INFORMATION AVAILABLE FROM SURVEYS AND RECORDS. THE CONTRACTOR SHALL POT HOLE THE ACTUAL LOCATION AND EXTENT OF UNDERGROUND FACILITIES PRIOR TO PROCEEDING WITH ANY CONSTRUCTION ACTIVITY WHICH AFFECT SUCH FACILITIES.
- THOSE EXISTING UTILITY WHICH ARE TO REMAIN IN PLACE SHALL BE CAREFULLY PROTECTED FROM DAMAGE DUE TO PROPOSED CONSTRUCTION OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES CAUSED BY HIS OPERATIONS. CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS (HAND DIGGING, BRACING, ETC.) WHICH WOULD MINIMIZE POTENTIAL DAMAGE TO EXISTING FACILITIES (WATER / SEWER LINES, FIBER OPTIC, ETC.) IN CLOSE PROXIMITY TO THE WORK.
- THE CONTRACTOR WILL ADJUST WATER VALVE BOXES & LIDS, SPRINKLER CONTROL BOXES, AIR RELEASES, ETC. AS REQUIRED TO PROPOSED FINISHED GRADE. THE CITY OF PORT ST. LUCIE UTILITY DEPARTMENT WILL REVIEW EACH LOCATION IN THE FIELD AT STAKEOUT TO VERIFY POTENTIAL CONFLICTS AND SOLUTIONS. VALVES ARE TO REMAIN OUTSIDE OF THE SIDEWALK EXTENTS WHEREVER POSSIBLE.
- THE CONTRACTOR IS RESPONSIBLE FOR UTILITY COORDINATION PRIOR TO AND DURING THE CONSTRUCTION OF THE PROJECT. PRIOR TO BEGINNING CONSTRUCTION OPERATIONS WHICH MAY AFFECT EXISTING UTILITIES, A UTILITY COORDINATION MEETING IS TO BE HELD TO COORDINATE AND RESOLVE POTENTIAL UTILITY CONFLICTS AND TO COORDINATE SCHEDULES FOR NECESSARY RELOCATIONS OR ADJUSTMENTS. THE CONTRACTOR WILL BE REQUIRED TO ADJUST HIS CONSTRUCTION SCHEDULE OR OPERATIONS TO ALLOW THE UTILITY OWNERS TO ADJUST/RELOCATE THEIR FACILITIES. THE COST FOR UTILITY COORDINATION IS INCLUDED IN THE PAY ITEM FOR MOBILIZATION.

**PAVING, GRADING AND DRAINAGE NOTES:**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING WITH THE CITY'S GEOTECHNICAL FIRM TO PROVIDE CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER. LAB TEST NEED TO HAVE A SEVEN DAY LEAD TIME NOTIFICATION TO THE CITY'S GEOTECHNICAL FIRM. TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND BASE DENSITIES AT UTILITY CROSSINGS, MANHOLES, INLETS, STRUCTURES. TEST SHALL INCLUDE ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, DENSITY TESTS SHALL BE PERFORMED AT THREE (3) LOCATIONS AROUND ANY STRUCTURE. BEGIN TESTING IN THE FIRST FOOT ABOVE THE BOTTOM OF THE STRUCTURE AND THEN EACH LIFT (12" MAX) TO WITHIN ONE FOOT OF THE FINISH GRADE.
- ALL INLETS AND PIPE SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT SILTATION IN THE DRAINAGE SYSTEMS BY WAY OF TEMPORARY PLUGS AND PLYWOOD OR PLASTIC COVERS OVER THE INLETS. THE ENTIRE DRAINAGE SYSTEMS SHALL BE CLEANED OF ALL DEBRIS PRIOR TO FINAL ACCEPTANCE.
- ALL PROPOSED ELEVATIONS REFER TO FINISHED GRADES.
- THE CONTRACTOR MUST OBTAIN A WATER USE PERMIT PRIOR TO CONSTRUCTION DEWATERING UNLESS THE WORK QUALIFIES FOR A PERMIT PURSUANT TO SUBSECTION 40E-20.061, F.A.C.
- CONTRACTOR TO VERIFY ALL EXISTING TIE-IN ELEVATIONS PRIOR TO FABRICATION/SHOP DRAWINGS OF PROPOSED STRUCTURES.

**UTILITY COMPANIES**

48 HOURS BEFORE DIGGING CALL SUNSHINE STATE ON CALL CENTER. TOLL FREE 1-800-432-4770

FLORIDA POWER AND LIGHT - CITY OF PORT ST. LUCIE UTILITIES SYSTEMS DEPARTMENT  
 ROB MORRIS LANEY SOUTHERLY  
 772-223-4215 772-873-6400

COMCAST- NEXT ERA ENERGY (GAS)  
 ANTHONY SPRINGSTEEL RON MULLER  
 772-321-3425 321-638-3424

AT&T- CITY OF PORT ST. LUCIE TRAFFIC OPERATIONS DIVISION  
 LUKE FOLKERTS PAUL JOHNSON  
 321-953-6172 772-871-5182

CITY OF PORT ST. LUCIE PUBLIC WORKS ST. LUCIE COUNTY ROAD & BRIDGE DIVISION (TRAFFIC OPERATION)  
 HEATH STOCKTON, PE, DIRECTOR DAN ZRALLACK  
 772-871-5100 772-462-2511

**GEOTECHNICAL ENGINEERING EVALUATION**

(EXCERPT FROM ANDERSEN-ANDRE GEOTECHNICAL REPORT DATED 2/14/22)

The existing roadway section, including the encountered soil-cement base course, should be completely removed/demolished (i.e. full-depth demolition), including within future medians or landscaped areas where the presence these base course materials likely would impede vertical drainage.

Once the existing pavement section materials have been removed, the underlying natural subgrade soils should be compacted to 100 percent of the standard Proctor maximum dry density (AASHTO T-99) maximum dry density of the compacted soil to a depth of one foot below the surface. In general, the roadway embankment design and construction should adhere to the requirements of FDOT Standard Index 505 and Section 120 of the FDOT Standard Specifications.

The subbase material to a depth of twelve inches should have a minimum Limerock Bearing Ratio (LBR) value (FDOT FM 5-515) of 40 and it should be compacted to at least 98 percent of its modified Proctor (ASTM D1557 or AASHTO T-180) maximum dry density.

The base course should consist of crushed limerock and should have a minimum Limerock Bearing Ratio (LBR) value (FDOT FM 5-515) of 100. We recommend a base course at least 10 inches thick which should be placed and compacted in two layers. All base course material should be compacted to at least 98 percent of its modified Proctor maximum dry density. Alternatively, consideration can be given to using 6 inches of asphaltic base course (black base), equivalent to FDOT Optional Base Group 9.

We recommend an FDOT Type SP asphaltic structural course, 2.5 inches thick, and placed and compacted in two layers. Care must be exercised to place the asphalt over dry, well primed base material.

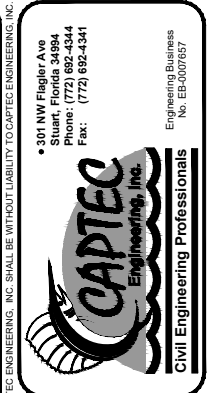
**SUB-CONSULTANTS**

SURVEYOR  
 BETSY LINDSAY, INC.

LANDSCAPE  
 LUCIDO & ASSOCIATES

GEOTECHNICAL  
 ANDERSON, ANDRE INC.

LIGHTING  
 WOJCIESZAK & ASSOCIATES, INC.



DATE:	4/15/22
DRAWN BY:	BJD
DESIGNED BY:	BJD
CHECKED BY:	JWC
PROJECT NO.:	1813.25
HORIZ. SCALE:	
VERT. SCALE:	
CADD FILE:	1813.25.DETAILS

NO.	DATE	BY	REVISIONS
5	4/20/23	MDR	100% PLANS
4	4/23/23	BJD	100% PLANS
3	8/29/22	BJD	90% PLANS
2	4/18/22	BJD	80% PLANS
1	2/17/22	BJD	30% PLANS



**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
 CITY OF PORT ST. LUCIE, FLORIDA

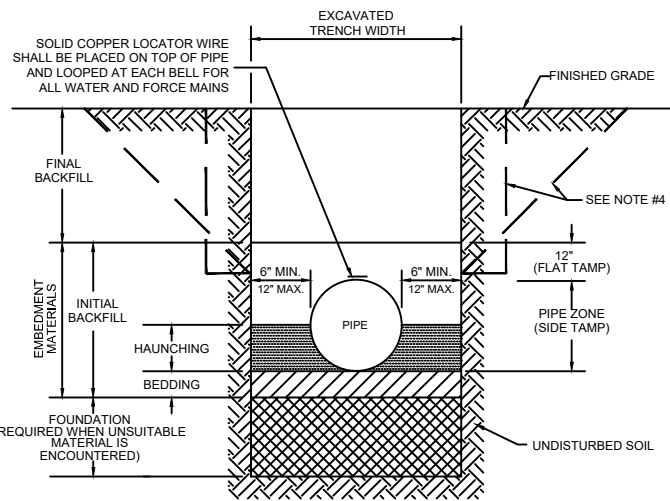
**GENERAL NOTES**

Joseph W. Capra  
 301 N.W. Flagler Ave.  
 Stuart, Florida 34994  
 P.E. No. 37638

Printed Date:

JOB No.: 1813.25  
 SHEET  
**3 OF 24**

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC.

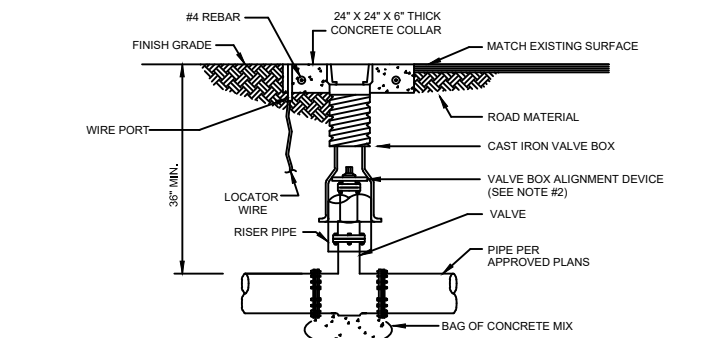
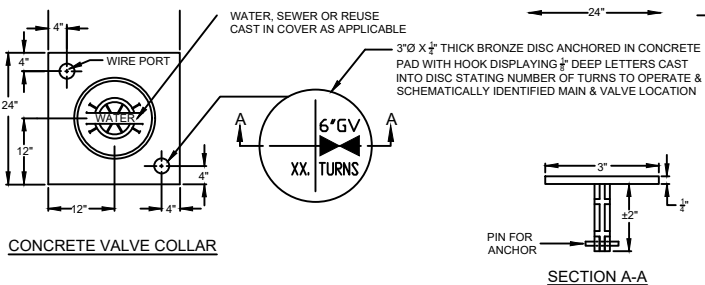


- NOTES:**
- FOR TRENCHES REQUIRING SHEETING, SHORING, STAY BRACING, TRENCH JACKS OR TRENCH BOX, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SUPPORTS.
  - IF THE MAXIMUM TRENCH WIDTH MUST BE EXCEEDED, THE AREA OUTSIDE OF THE MAXIMUM EMBEDMENT SHALL BE COMPACTED TO FINAL BACKFILL REQUIREMENTS. IF THE PIPE IS INSTALLED IN A COMPACTED EMBANKMENT, THE EMBANKMENT SHALL BE IN PLACE AND COMPACTED TO 12" MIN. COVER BEFORE INSTALLATION OF PIPE.
  - IF BEDDING IS REQUIRED TO BRING TRENCH BOTTOM UP TO GRADE AND PROVIDE UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE, THEN A MINIMUM COMPACTED DEPTH OF 4 TO 6 INCHES OF SELECT EMBEDMENT MATERIAL IS REQUIRED.
  - THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE FLORIDA TRENCH SAFETY ACT.
  - AN APPROVED LOCATOR WIRE SHALL BE USED.
  - EARTHWORK, EXCAVATION, BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH PSLUSD STANDARDS.

MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433

**STANDARD PIPE TRENCH CROSS SECTION**

DETAIL: G-04  
DATE: 2015  
SCALE: N.T.S.  
SHEET: 1 OF 1

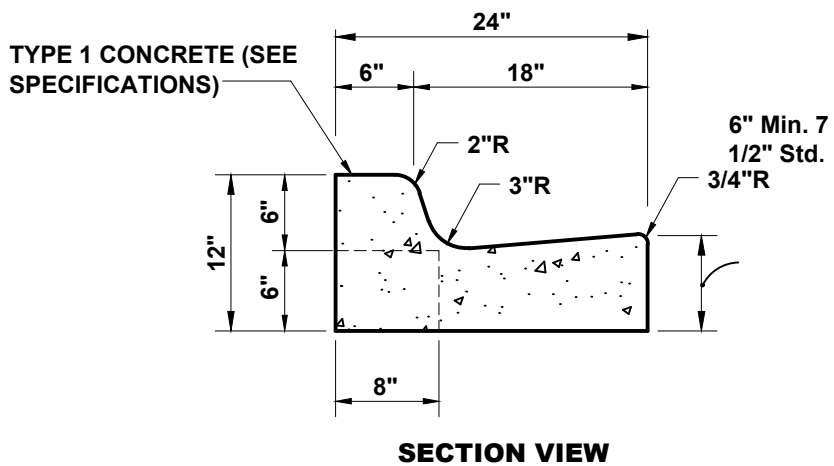


- NOTES:**
- WHEN TOP OF OPERATING NUT IS DEEPER THAN 30", A HIGH STRENGTH STEEL EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT 24"-30" BELOW FINISHED GRADE. A STEEL CENTERING PLATE, WELDED TO THE EXTENSION, IS ALSO REQUIRED.
  - A VALVE BOX ALIGNMENT DEVICE SHALL BE PROVIDED TO ELIMINATE SHIFTING OF THE VALVE BOX AGAINST THE OPERATING NUT.
  - BOLT DOWN COVER SHALL BE USED IN ALL AREAS.
  - C900 P.V.C. RISER PIPE SHALL BE ADDED TO EXTEND THE VALVE BOX IF NEEDED.
  - RPMS SHALL NOT BE INSTALLED IN CROSSWALKS OR PEDESTRIAN WALKWAYS.
  - THE TOP SIDE OF THE VALVE BOX COVER AND THE INSIDE OF TOP SECTION OF THE VALVE BOX SHALL BE PAINTED BLUE FOR WATER MAINS, GREEN FOR SEWER MAINS AND PURPLE FOR RECLAIMED WATER MAINS.

MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433

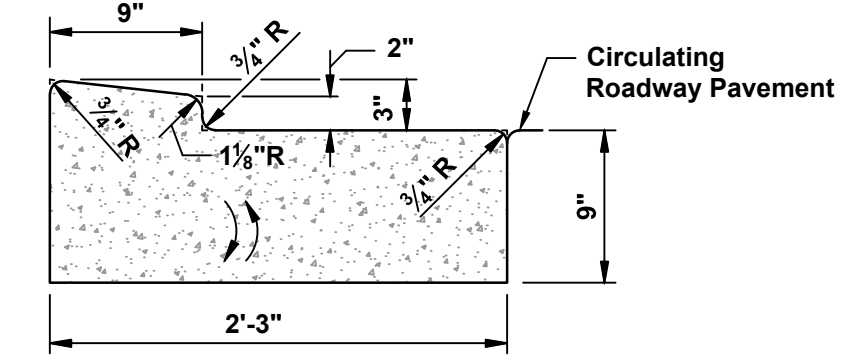
**TYPICAL VALVE BOX AND COLLAR**

DETAIL: G-07  
DATE: 2015  
SCALE: N.T.S.  
SHEET: 1 OF 2

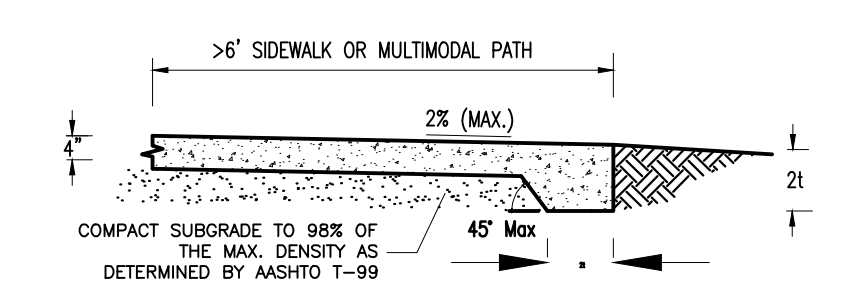


- SAW CUT CONTRACTION JOINTS ON 10' CENTERS MAX. WITHIN 48 HOURS AFTER POURING CURB.
- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 520 AND FDOT ROADWAY & TRAFFIC DESIGN STANDARDS INDEX NUMBER 300.
- WHEN USED ON HIGH SIDE OF ROAD, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6", UNLESS OTHERWISE SHOWN ON PLANS.

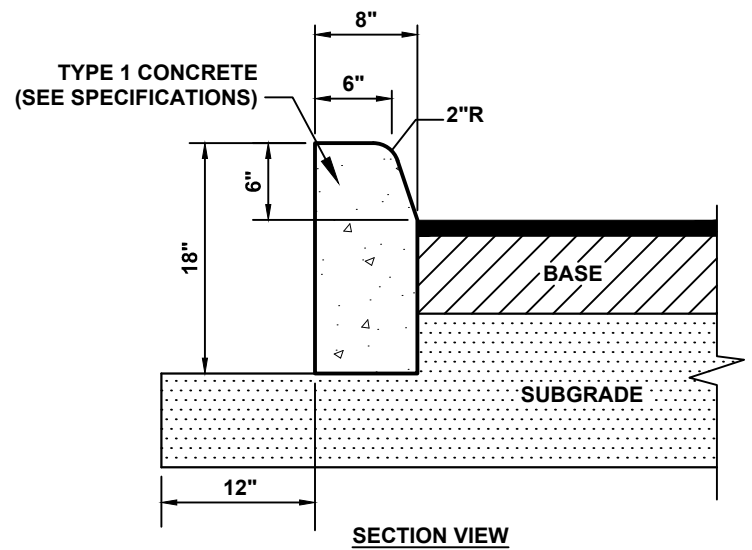
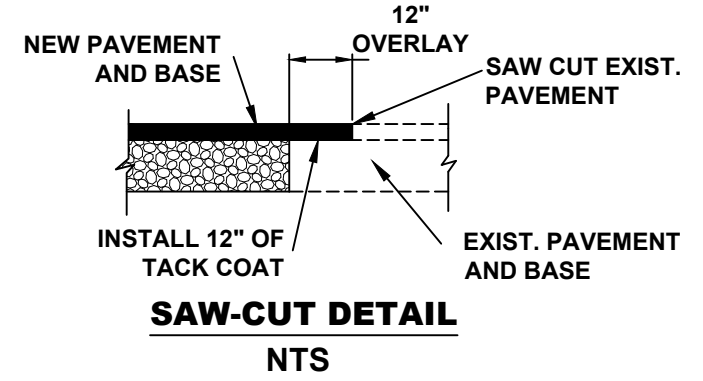
**TYPE F CURB & GUTTER**  
NTS



**TRAFFIC BEARING SECTION FOR USE IN ROUNDABOUT CENTRAL ISLAND CONSTRUCTION**  
**TYPE RA**

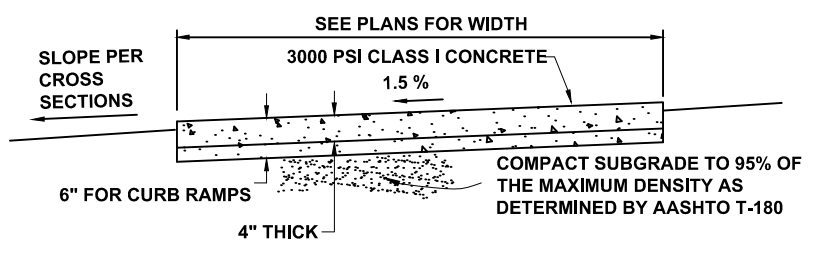


**\* BUS STOP PAD SHALL BE 4" THICK ; THICKENED EDGE SHALL BE 8" THICK**  
**THICKENED CONCRETE EDGE (BUS STOP)**



- NOTES:**
- SAW CUT CONTRACTION JOINTS ON 10' CENTERS MAX. WITHIN 48 HOURS AFTER POURING CURB.
  - ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 520 AND FDOT ROADWAY & TRAFFIC DESIGN STANDARDS INDEX NUMBER 300.

**TYPE "D" CURB**



- NOTES:**
- PROVIDE CONTRACTION JOINTS EQUAL TO WIDTH OF 6' SIDEWALK AND 5' CENTER TO CENTER ALL OTHERS.
  - SOD SHALL BE PLACED BELOW EDGE OF SIDEWALK TO ALLOW DRAINAGE.
  - ALL SIDEWALK JOINTS MUST BE TOOLED WITHOUT EXPANSION JOINTS.

**TYPICAL SIDEWALK**

301 NW Flagler Ave  
Port St. Lucie, FL 34983  
Phone: (772) 892-4344  
Fax: (772) 892-4341

**CAPTEC**  
Engineering, Inc.  
Civil Engineering Professionals

Engineering Business No. EB-007857

DATE: 9-20-19

DRAWN BY:	MDB
DESIGNED BY:	MDB
CHECKED BY:	JWC
PROJECT No.:	1813.25
HORIZ. SCALE:	
VERT. SCALE:	
CADD FILE:	1813.25.DETAILS

NO.	DATE	BY	REVISIONS
5	4/20/23	MDB	100% PLANS
4	4/2/23	BLD	100% PLANS
3	8/29/22	BLD	90% PLANS
2	4/18/22	BLD	80% PLANS
1	2/17/22	BLD	30% PLANS

**SCALE VERIFICATION**

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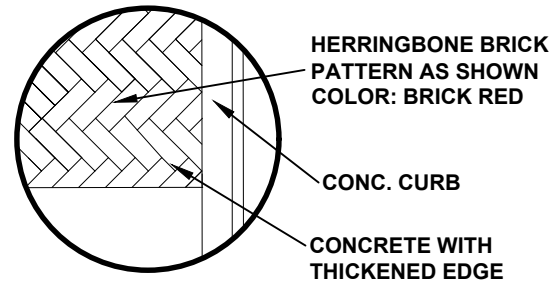
SOLID BAR IS EQUAL TO HALF AN INCH ON ORIGINAL DRAWING. ALL DIMENSIONS SHALL BE ACCORDINGLY.

**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
CITY OF PORT ST. LUCIE, FLORIDA

**DETAILS**

Joseph W. Capra  
301 N.W. Flagler Ave.  
Stuart, Florida 34994  
P.E. No. 37638

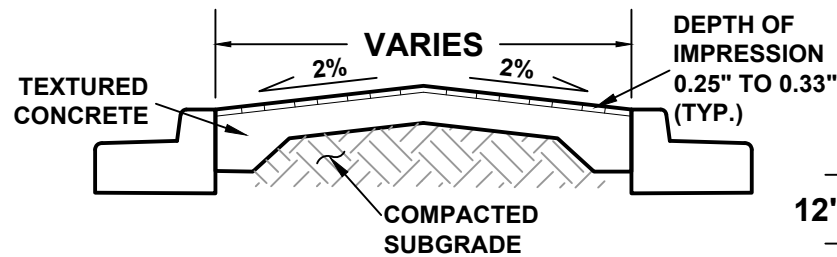
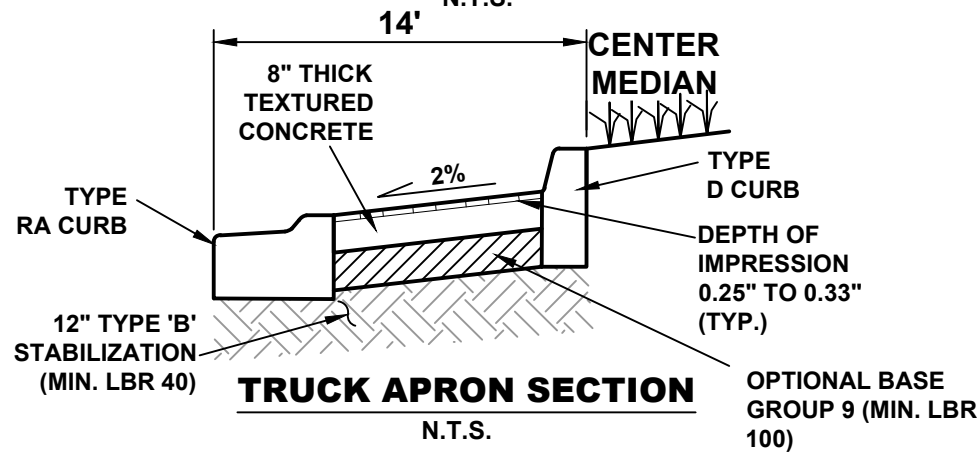
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TYPICAL LAYOUT

**TEXTURED CONCRETE PATTERN DETAIL**

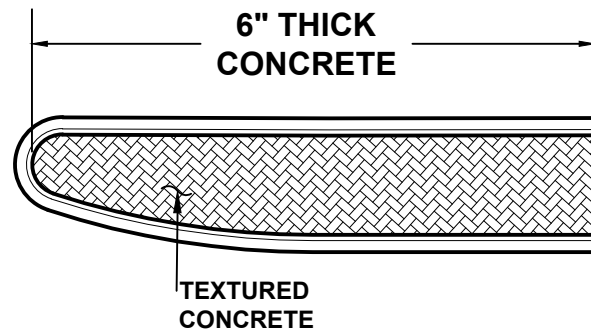
N.T.S.



SECTION

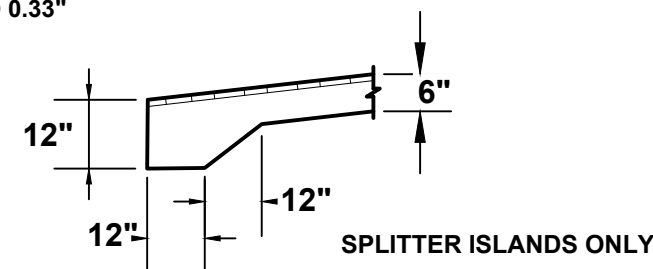
**MEDIAN TEXTURED CONCRETE DETAIL**

N.T.S.



**TYPICAL MEDIAN CONCRETE WITH THICKENED EDGE**

WITH THICKENED EDGE



**TYPICAL THICKENED EDGE 6" CONCRETE**

N.T.S.

**STAMPED TEXTURED CONCRETE SPECIFICATIONS**

**1.0 GENERAL**

**1.01 DESCRIPTION:** STAMPED CONCRETE INCLUDES:

- A. MATERIALS: CONCRETE, DRY-SHAKE COLOR HARDENER (FILL TO DEPTH OF CONCRETE), CURING COMPOUND, AND SEALER.
- B. SPECIAL IMPRINTING AND TEXTURING TOOLS.
- C. CONCRETE PLACEMENT AND FINISH.
- D. COLOR HARDENER PLACEMENT.
- E. CURING COMPOUND APPLICATION.
- F. SEALER APPLICATION.

**1.02 RELATED WORK:** TO BE COMPLETED BY A LICENSED STAMPED CONCRETE CONTRACTOR

- A. PREPARATION WORK, INCLUDING SUB-GRADE PREPARATION, FINISH GRADING, CONSTRUCTING FORMWORK, PLACING AND SETTING SCREEDS, AND FURNISHING AND PLACEMENT OF REINFORCEMENT SHALL BE DONE BY A LICENSED, QUALIFIED CONTRACTOR.
- B. PROVIDE AND PLACE CONCRETE.
- C. PROVIDE AND APPLY COLOR HARDENER. REGULAR GRADE COLOR HARDENER IS RECOMMENDED FOR ALL APPLICATION AREAS EXCEPT THOSE SUBJECT TO HEAVY PEDESTRIAN TRAFFIC OR HEAVY VEHICULAR TRAFFIC.
- D. PROVIDE AND APPLY RELEASE AGENTS. RELEASE AGENT IS A DRY POWDERED, COLORED AGENT USED TO FACILITATE RELEASE OF THE IMPRINTING TOOLS FROM CONCRETE SURFACE, AND TO PROVIDE MODERATE COLOR VARIATIONS TO THE TEXTURED SURFACE.
- E. PROVIDE AND APPLY IMPRINTING TOOLS.
- F. PROVIDE AND APPLY CURING COMPOUND.
- G. PROVIDE AND APPLY GROUT FOR IMPRINTED JOINTS.
- H. PROVIDE AND APPLY SEALER.

**2.00 PRODUCTS AND MATERIALS**

**2.01 CONCRETE MIX DESIGN**

- A. THE CONCRETE SHALL MEET ALL REQUIREMENTS OF FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2022, SECTIONS 347, 520, AND 522.

**2.02 COLORING, IMPRINTING, CURING AND SEALING MATERIALS**

- A. COLOR HARDENER: THE CONCRETE SHALL BE COLORED WITH THE FOLLOWING COLOR: **BRICK RED**. THE GRADE OF THE HARDENER SHALL BE HEAVY DUTY. THE COLORING SHALL BE THOROUGHLY MIXED FULL DEPTH OF CONCRETE.
- B. PATTERN: THE FOLLOWING PATTERN SHALL BE USED: HERRINGBONE.
- C. CURING: ALL IMPRINTED CONCRETE SLABS SHALL BE CURED.
- D. SEALER: ALL SLABS SHALL BE SEALED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

**3.00 EXECUTION**

**3.01 INSTALLATION PROCEDURES**

- A. THE AREA TO RECEIVE IMPRINTED CONCRETE SHALL HAVE THE SUB-GRADE PREPARED AS REQUIRED AS FOR ANY CONCRETE SLAB ON GRADE, PER FDOT STANDARDS.
- B. THE FORMWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS.
- C. CONTROL JOINTS AND / OR EXPANSION JOINTS SHALL BE PROVIDED IN ACCORDANCE WITH THE DRAWINGS AND THE GUIDELINES ESTABLISHED BY THE AMERICAN CONCRETE INSTITUTE. AS WITH ANY CONCRETE SLAB, IMPRINTED CONCRETE USUALLY CONTAINS CONSTRUCTION JOINTS, CONTROL JOINTS AND EXPANSION JOINTS. THE CONTRACTOR SHALL ADVISE AND WORK WITH THE ARCHITECT / ENGINEER TO DETERMINE THE BEST LOCATION FOR THESE JOINTS TO MINIMIZE THE VISIBILITY OF THE JOINTS AND TO MINIMIZE UNSIGHTLY CRACKING.
- D. THE CONCRETE SHALL BE PLACED AND SCREEDED TO THE FINISHED GRADE, AND FLOATED TO A UNIFORM SURFACE USING STANDARD FINISHING TECHNIQUES.
- E. COLOR HARDENER SHALL BE APPLIED EVENLY TO THE FULL DEPTH OF CONCRETE USING A MINIMUM OF 60 POUNDS PER 100 SQ. FT. IT SHALL BE APPLIED IN TWO OR MORE SHAKES, FLOATED AFTER EACH SHAKE AND TROWELED ONLY AFTER THE FLOATING.
- F. WHILE THE CONCRETE IS STILL IN ITS PLASTIC STAGE OF SET, THE IMPRINTING TOOLS SHALL BE APPLIED TO THE SURFACE.
- G. CURE AND SEAL, OR APPROVED EQUAL, SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY AFTER COMPLETING THE IMPRINTING PROCESS FOR SLABS ONLY.
- H. AFTER THE INITIAL CURING PERIOD, THE SURFACE OF THE SLAB SHALL BE SEALED.

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**CAPTEC**  
Engineering, Inc.  
Civil Engineering Professionals

Engineering Business  
No. EB-007857

DATE: 4/15/22

DRAWN BY:	BJD
DESIGNED BY:	BJD
CHECKED BY:	JWC
PROJECT No.:	1813.25
HORIZ. SCALE:	
VERT. SCALE:	
CADD FILE:	1813.25.DETAILS

NO.	DATE	BY	REVISIONS
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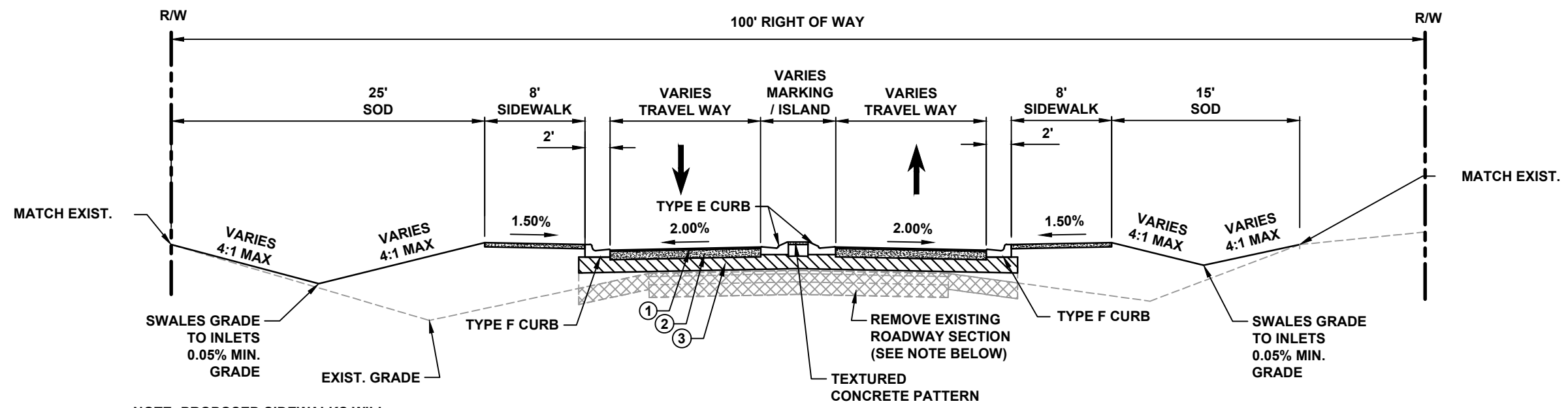
**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
CITY OF PORT ST. LUCIE, FLORIDA

**DETAILS**

Joseph W. Capra  
301 N.W. Flagler Ave.  
Stuart, Florida 34994  
P.E. No. 37638

Printed Date:

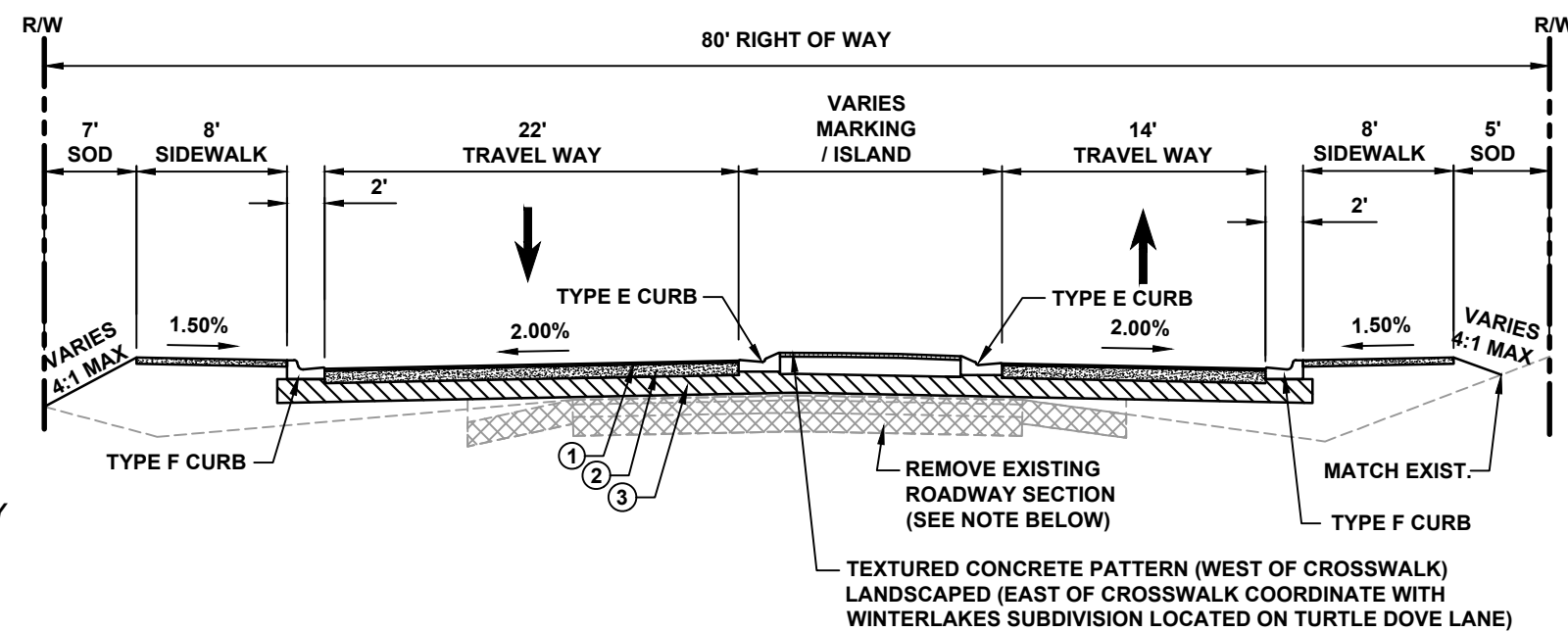
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**TYPICAL ROUNDABOUT APPROACH SECTION  
(N TORINO PARKWAY & NW EAST TORINO PARKWAY)**

NOTE: PROPOSED SIDEWALKS WILL CONNECT TO EXISTING SEE PLANS

FILL SPECIFICATIONS:  
EMBANKMENT AND FILL  
MATERIAL PER FDOT  
SECTION 120-6 "EXCAVATION  
AND EMBANKMENT"



**TYPICAL ROUNDABOUT APPROACH SECTION  
(TURTLE DOVE LANE)**

**TRAFFIC DATA**

**N TORINO PARKWAY / NW EAST TORINO PARKWAY**  
DESIGN SPEED = 40 MPH  
POSTED SPEED = 40 MPH

**TURTLE DOVE LANE (PRIVATE SUBDIVISION)**  
POSTED SPEED = 15 MPH

**ROUNDABOUT**  
DESIGN SPEED = 20 MPH

**ANNUAL AVERAGE DAILY TRAFFIC (AADT) 2019 / 2020**

- EAST TORINO PKWY FROM CASHMERE BLVD TO TORINO PKWY = 11,500 AADT
- EAST TORINO PKWY FROM TORINO PKWY TO MIDWAY RD = 14,500 AADT
- TORINO PKWY FROM CALIFORNIA BLVD TO EAST TORINO PKWY = 4,300 AADT

- FIRST LIFT 1 1/2", FINAL LIFT 1" TYPE SP-9.5 LEVEL C ASPHALT
- OPTIONAL BASE GROUP 9 10" (MIN. LBR 100)
- 12" TYPE 'B' STABILIZATION (MIN. LBR 40) STRUCTURAL NUMBER = 4.08

**NOTES**

- SEE PLAN AND/OR CROSS SECTION SHEETS FOR DIMENSIONS ELEVATIONS AND SLOPES INDICATED AS VARIES.
- SEE PLAN FOR EXISTING SIDEWALK TO REMAIN (NO PROPOSED SIDEWALK ON ROADSIDE WHERE ALREADY PRESENT)
- ALL DISTURBED AREAS WITHIN RIGHT OF WAY SHALL BE SODDED USING COMMON BAHIA SOD EXCEPT WHEN MATCHING EXISTING.
- MAXIMUM SIDEWALK SLOPE IS 1.5%
- PROPOSED LANDSCAPE IMPROVEMENT SEE LANDSCAPE PLANS
- FULL DEMOLITION OF EXISTING PAVEMENT IN AREAS OF NEW PAVEMENT. MILLING & OVERLAY IN AREAS WHERE STRIPING TO BE ADJUSTED

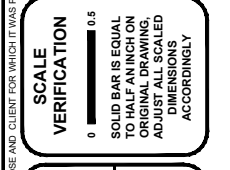
301 NW Flagler Ave  
Stuart, FL 34994  
Phone: (772) 692-4344  
Fax: (772) 692-4341

Engineering Professionals  
Civil Engineering

DATE: 4/15/22

DRAWN BY:	BJD
DESIGNED BY:	BJD
CHECKED BY:	JWC
PROJECT NO.:	1813.25
HORIZ. SCALE:	1" = 10'
VERT. SCALE:	N.T.S.
CADD FILE:	

NO.	DATE	BY	REVISIONS
5	4/20/23	MDB	100% PLANS
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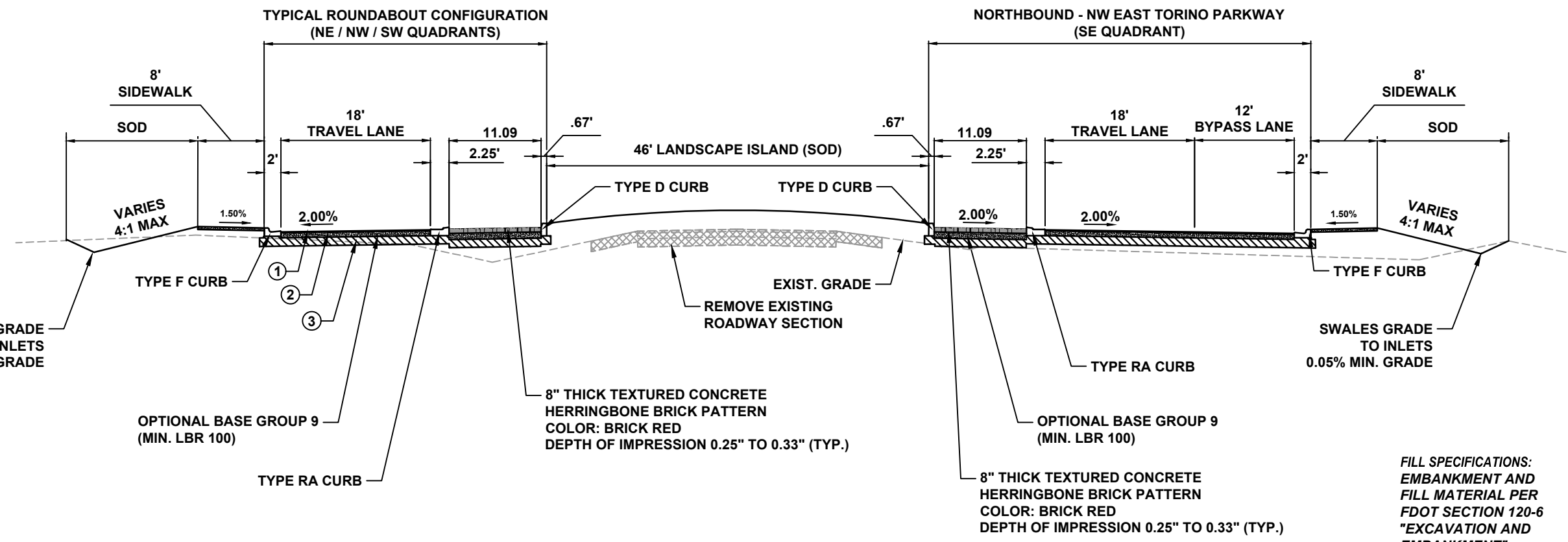


**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
CITY OF PORT ST. LUCIE, FLORIDA

**TYPICAL SECTIONS**

Joseph W. Capra  
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Stuart, Florida 34994  
P.E. No. 37638

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**TYPICAL ROUNDABOUT SECTION**

**FILL SPECIFICATIONS:  
EMBANKMENT AND  
FILL MATERIAL PER  
FDOT SECTION 120-6  
"EXCAVATION AND  
EMBANKMENT"**

**TRAFFIC DATA**

**N TORINO PARKWAY / NW EAST TORINO PARKWAY**  
 DESIGN SPEED = 40 MPH  
 POSTED SPEED = 40 MPH  
  
**TURTLE DOVE LANE (PRIVATE SUBDIVISION)**  
 POSTED SPEED = 15 MPH  
  
**ROUNDABOUT**  
 DESIGN SPEED = 20 MPH

**ANNUAL AVERAGE DAILY TRAFFIC (AADT) 2019 / 2020**

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- FIRST LIFT 1 1/2", FINAL LIFT 1"  
TYPE SP-9.5 LEVEL C ASPHALT
- OPTIONAL BASE GROUP 9  
10" (MIN. LBR 100)
- 12" TYPE 'B' STABILIZATION  
(MIN. LBR 40)  
STRUCTURAL NUMBER = 4.08

**NOTES**

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- MAXIMUM SIDEWALK SLOPE IS 1.5%
- PROPOSED LANDSCAPE IMPROVEMENT SEE LANDSCAPE PLANS

DATE: 4/15/22

DRAWN BY:	BJD
DESIGNED BY:	BJD
CHECKED BY:	JWC
PROJECT NO.:	1813.25
HORIZ. SCALE:	1" = 15'
VERT. SCALE:	N.T.S.
CADD FILE:	

NO.	DATE	BY	REVISIONS
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3	8/29/22	BJD	90% PLANS
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**SCALE VERIFICATION**

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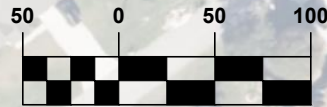
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**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
CITY OF PORT ST. LUCIE, FLORIDA

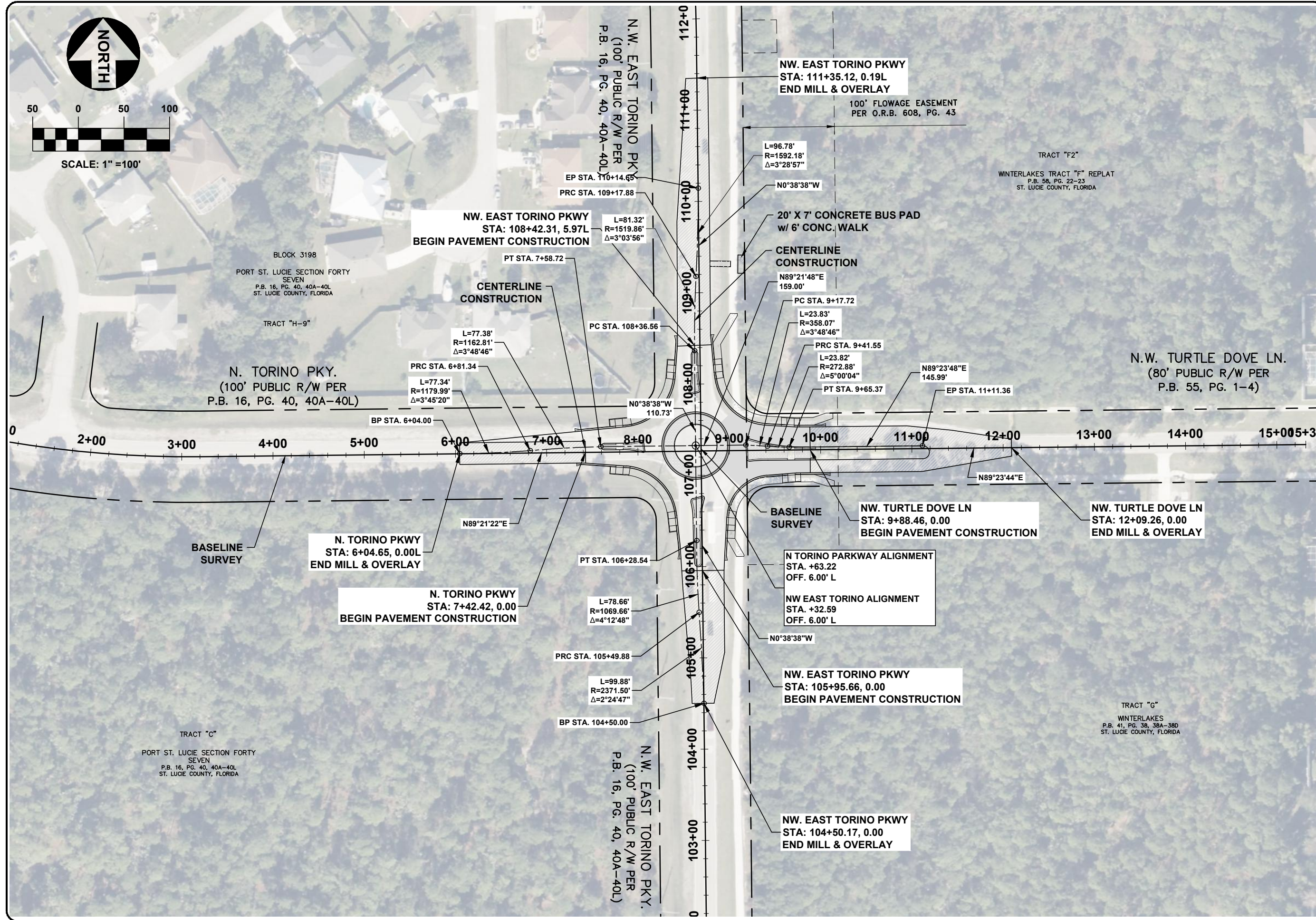
**TYPICAL SECTIONS**

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SCALE: 1" = 100'



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Engineering Business  
No. EB-007857  
Civil Engineering Professionals

DATE: 4/15/22

DRAWN BY:	BJD
DESIGNED BY:	BJD
CHECKED BY:	JWC
PROJECT No.:	1813.25
HORIZ. SCALE:	1"=100'
VERT. SCALE:	CAVD FILEB125 PRO LAYOUT

NO.	DATE	BY	REVISIONS
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**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
CITY OF PORT ST. LUCIE, FLORIDA

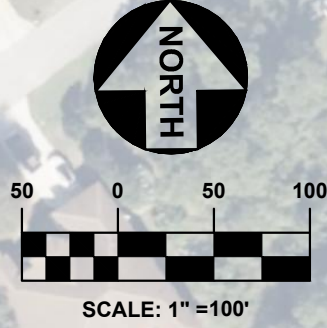
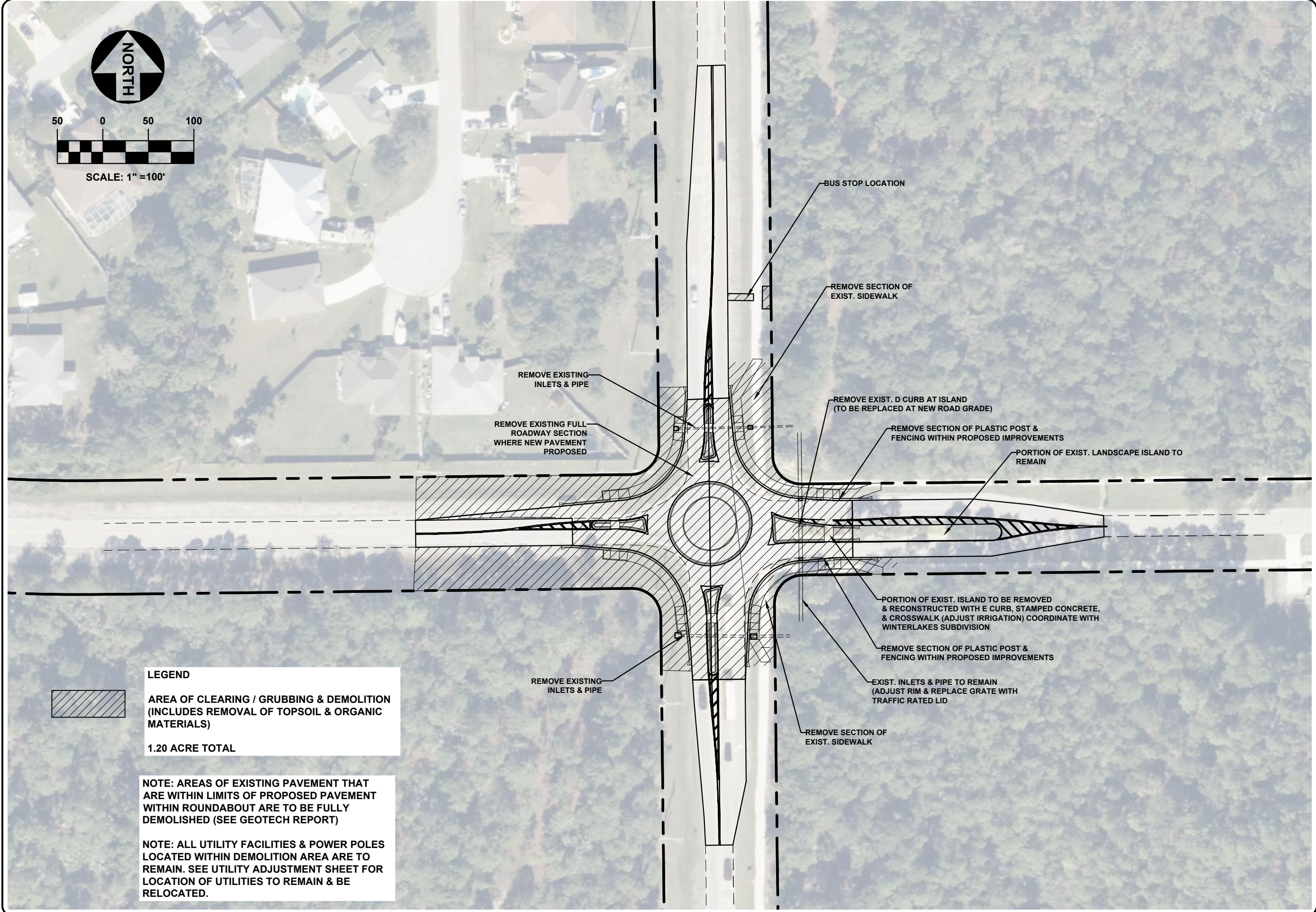
**INTERSECTION PLAN & PROJECT LAYOUT**

Joseph W. Capra  
301 N.W. Flagler Ave.  
Stuart, Florida 34994  
P.E. No. 37638

Printed Date:

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**LEGEND**

**AREA OF CLEARING / GRUBBING & DEMOLITION (INCLUDES REMOVAL OF TOPSOIL & ORGANIC MATERIALS)**

**1.20 ACRE TOTAL**

**NOTE: AREAS OF EXISTING PAVEMENT THAT ARE WITHIN LIMITS OF PROPOSED PAVEMENT WITHIN ROUNDABOUT ARE TO BE FULLY DEMOLISHED (SEE GEOTECH REPORT)**

**NOTE: ALL UTILITY FACILITIES & POWER POLES LOCATED WITHIN DEMOLITION AREA ARE TO REMAIN. SEE UTILITY ADJUSTMENT SHEET FOR LOCATION OF UTILITIES TO REMAIN & BE RELOCATED.**

- BUS STOP LOCATION
- REMOVE SECTION OF EXIST. SIDEWALK
- REMOVE EXIST. D CURB AT ISLAND (TO BE REPLACED AT NEW ROAD GRADE)
- REMOVE SECTION OF PLASTIC POST & FENCING WITHIN PROPOSED IMPROVEMENTS
- PORTION OF EXIST. LANDSCAPE ISLAND TO REMAIN
- REMOVE EXISTING INLETS & PIPE
- REMOVE EXISTING FULL ROADWAY SECTION WHERE NEW PAVEMENT PROPOSED
- REMOVE EXISTING INLETS & PIPE
- PORTION OF EXIST. ISLAND TO BE REMOVED & RECONSTRUCTED WITH E CURB, STAMPED CONCRETE, & CROSSWALK (ADJUST IRRIGATION) COORDINATE WITH WINTERLAKES SUBDIVISION
- REMOVE SECTION OF PLASTIC POST & FENCING WITHIN PROPOSED IMPROVEMENTS
- EXIST. INLETS & PIPE TO REMAIN (ADJUST RIM & REPLACE GRATE WITH TRAFFIC RATED LID)
- REMOVE SECTION OF EXIST. SIDEWALK

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**CAPTEC Engineering, Inc.**  
Civil Engineering Professionals  
No. EB-007857

DATE: 4/15/22  
DRAWN BY: MDB  
DESIGNED BY: MDB  
CHECKED BY: JWC  
PROJECT No.: 1813.25  
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**SCALE VERIFICATION**

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**TORINO PKWY AND TURTLE DOVE LN ROUNDABOUT**  
CITY OF PORT ST. LUCIE, FLORIDA

**DEMOLITION PLAN**

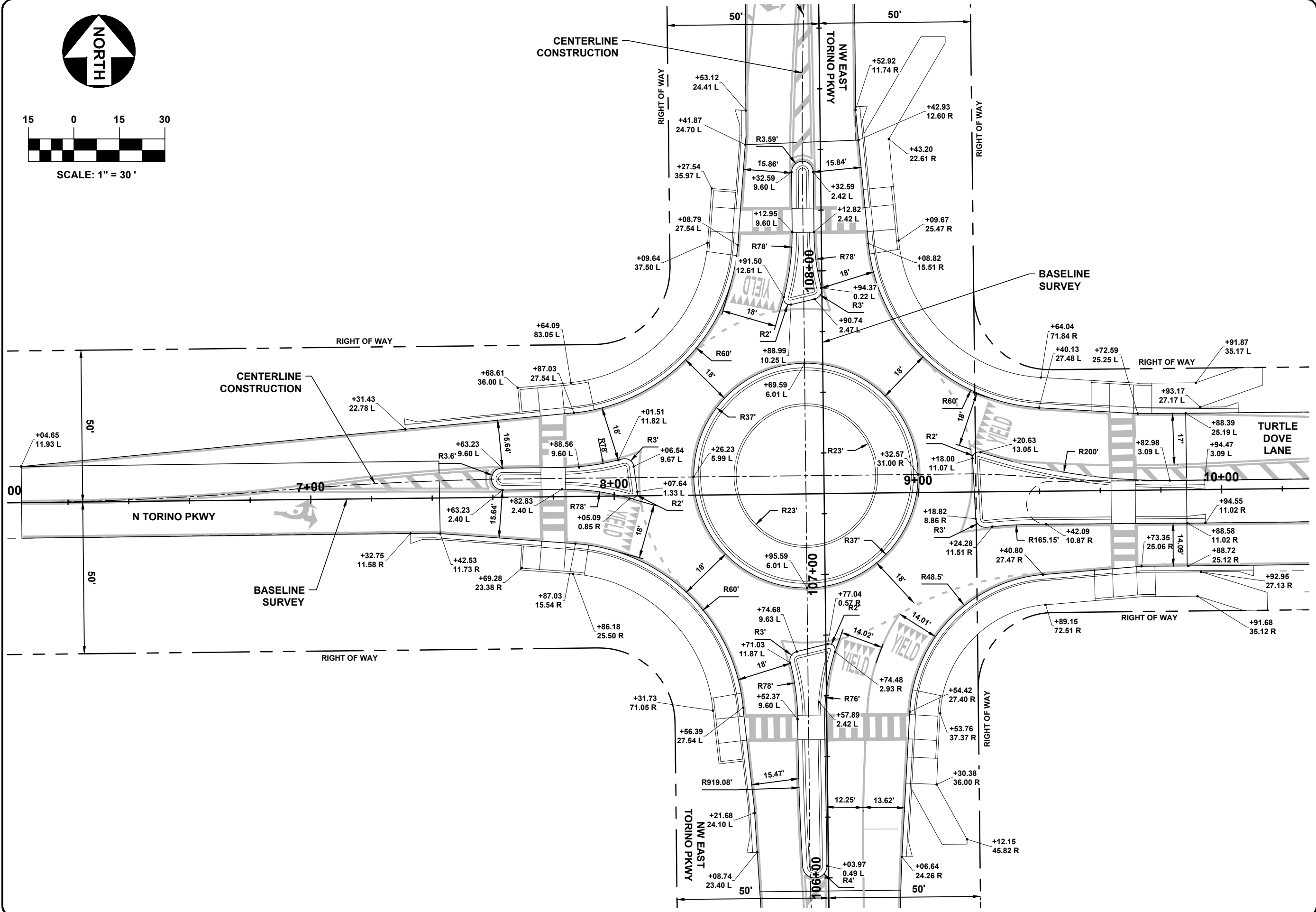
Joseph W. Capra  
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P.E. No. 37638

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SHEET 9 OF 24

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SCALE: 1" = 30'



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**CAPTEC**  
Engineering, Inc.  
Civil Engineering Professionals

DATE: 4/15/22

DRAWN BY: BJD  
DESIGNED BY: BJD  
CHECKED BY: JWC

PROJECT No.: 1813.25  
HORIZ. SCALE: 1"=30'  
VERT. SCALE: AS SHOWN

CAUD FILE#1813.25 PRO LAYOUT

NO.	DATE	BY	REVISIONS
1	2/7/22	BJD	30% PLANS
2	4/15/22	BJD	80% PLANS
3	8/29/22	BJD	90% PLANS
4	1/2/23	BJD	100% PLANS
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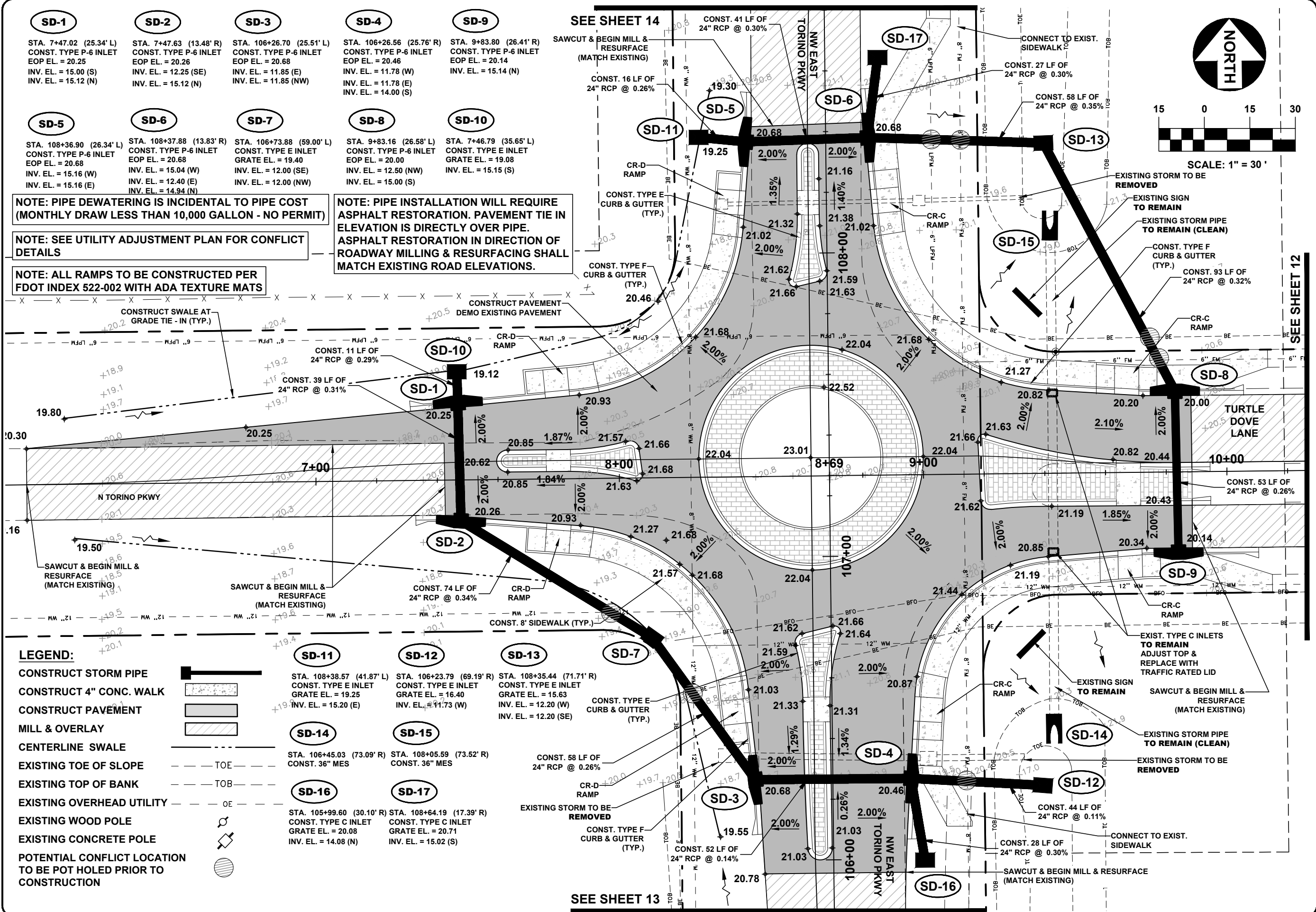
**INTERSECTION DETAIL**

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301 N.W. Flagler Ave.  
Stuart, Florida 34994  
P.E. No. 37638

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SHEET  
**10 OF 24**

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<b>SD-1</b> STA. 7+47.02 (25.34' L) CONST. TYPE P-6 INLET EOP EL. = 20.25 INV. EL. = 15.00 (S) INV. EL. = 15.12 (N)	<b>SD-2</b> STA. 7+47.63 (13.48' R) CONST. TYPE P-6 INLET EOP EL. = 20.26 INV. EL. = 12.25 (SE) INV. EL. = 15.12 (N)	<b>SD-3</b> STA. 106+26.70 (25.51' L) CONST. TYPE P-6 INLET EOP EL. = 20.68 INV. EL. = 11.85 (E) INV. EL. = 11.85 (NW)	<b>SD-4</b> STA. 106+26.56 (25.76' R) CONST. TYPE P-6 INLET EOP EL. = 20.46 INV. EL. = 11.78 (W) INV. EL. = 14.00 (S)	<b>SD-9</b> STA. 9+83.80 (26.41' R) CONST. TYPE P-6 INLET EOP EL. = 20.14 INV. EL. = 15.14 (N)
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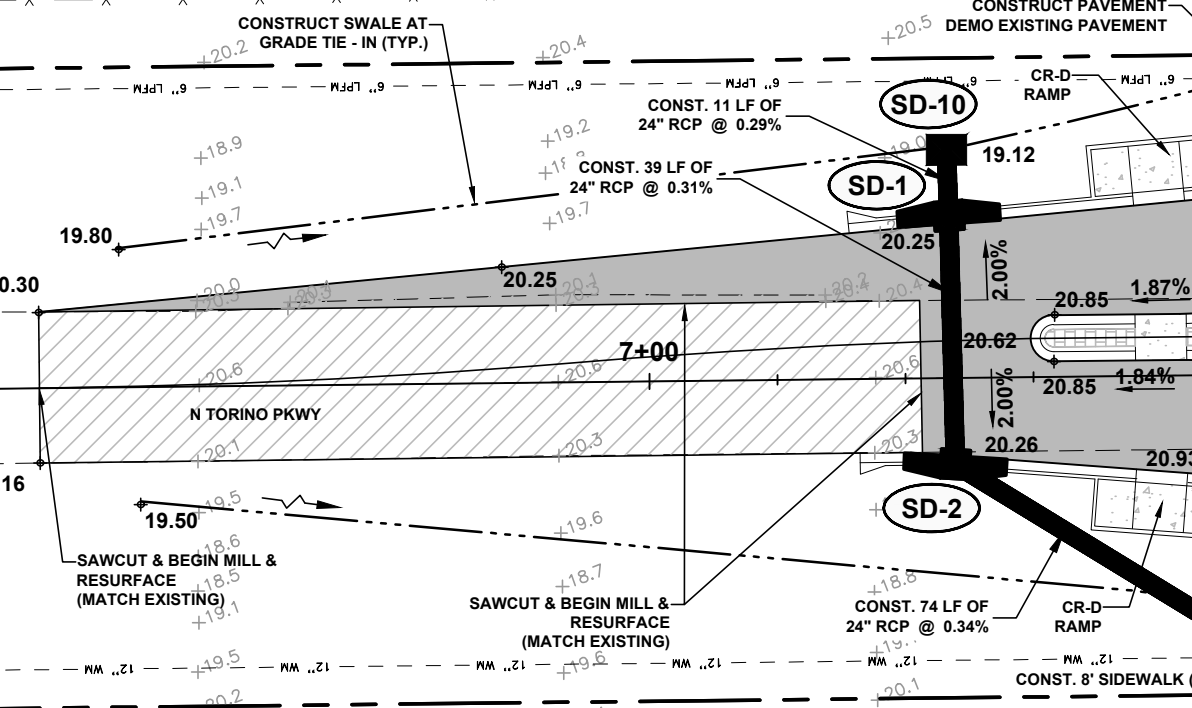
<b>SD-5</b> STA. 108+36.90 (26.34' L) CONST. TYPE P-6 INLET EOP EL. = 20.68 INV. EL. = 15.16 (W) INV. EL. = 15.16 (E)	<b>SD-6</b> STA. 108+37.88 (13.83' R) CONST. TYPE P-6 INLET EOP EL. = 20.68 INV. EL. = 15.04 (W) INV. EL. = 12.40 (E) INV. EL. = 14.94 (N)	<b>SD-7</b> STA. 106+73.88 (59.00' L) CONST. TYPE E INLET GRATE EL. = 19.40 INV. EL. = 12.00 (SE) INV. EL. = 12.00 (NW)	<b>SD-8</b> STA. 9+83.16 (26.58' L) CONST. TYPE P-6 INLET EOP EL. = 20.00 INV. EL. = 12.50 (NW) INV. EL. = 15.00 (S)	<b>SD-10</b> STA. 7+46.79 (35.65' L) CONST. TYPE E INLET GRATE EL. = 19.08 INV. EL. = 15.15 (S)
--	--	--	---	---

**NOTE: PIPE DEWATERING IS INCIDENTAL TO PIPE COST (MONTHLY DRAW LESS THAN 10,000 GALLON - NO PERMIT)**

**NOTE: SEE UTILITY ADJUSTMENT PLAN FOR CONFLICT DETAILS**

**NOTE: ALL RAMPS TO BE CONSTRUCTED PER FDOT INDEX 522-002 WITH ADA TEXTURE MATS**

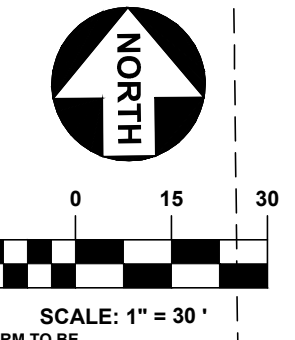
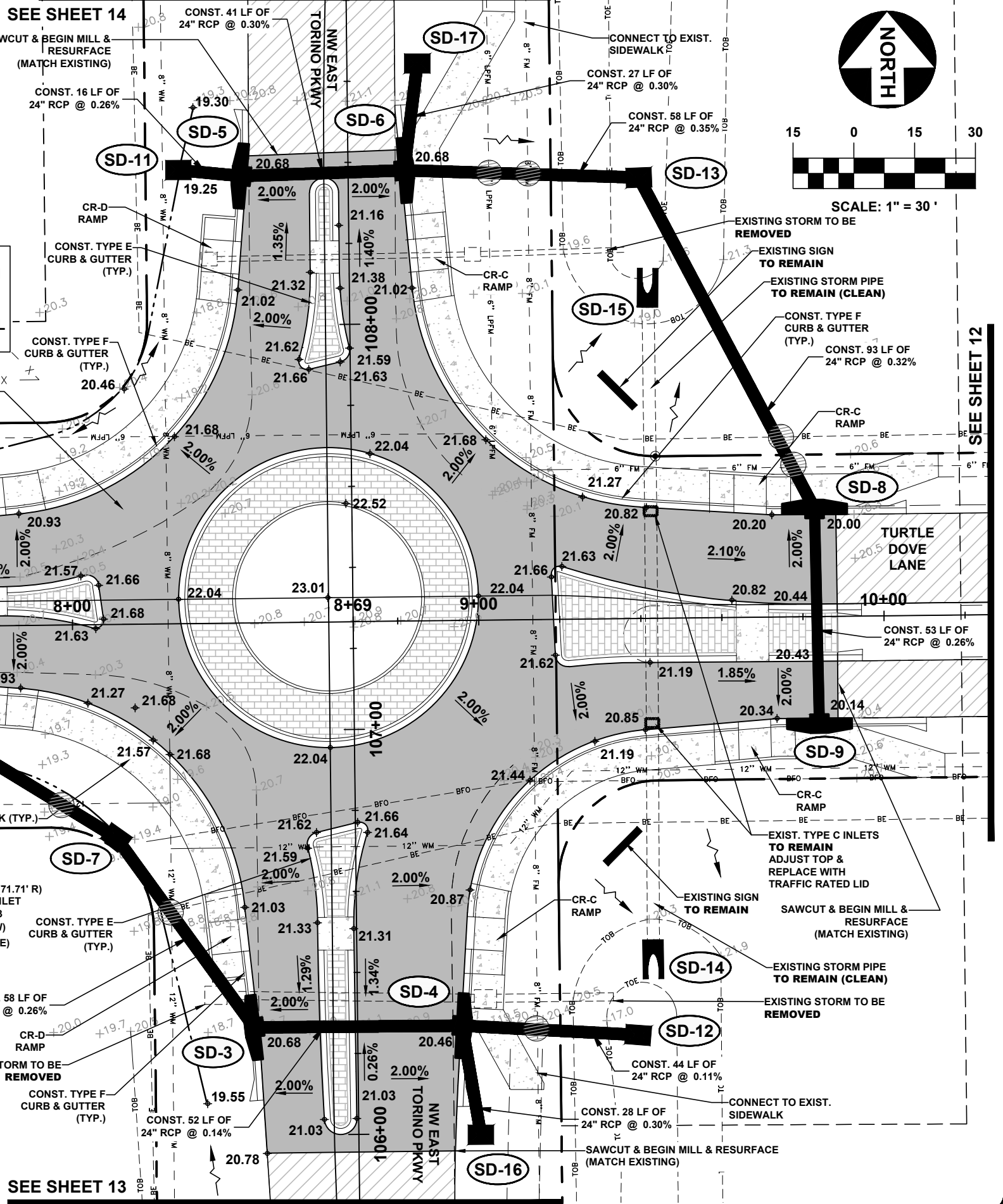
**NOTE: PIPE INSTALLATION WILL REQUIRE ASPHALT RESTORATION. PAVEMENT TIE IN ELEVATION IS DIRECTLY OVER PIPE. ASPHALT RESTORATION IN DIRECTION OF ROADWAY MILLING & RESURFACING SHALL MATCH EXISTING ROAD ELEVATIONS.**



**LEGEND:**

CONSTRUCT STORM PIPE	
CONSTRUCT 4" CONC. WALK	
CONSTRUCT PAVEMENT	
MILL & OVERLAY	
CENTERLINE SWALE	
EXISTING TOE OF SLOPE	
EXISTING TOP OF BANK	
EXISTING OVERHEAD UTILITY	
EXISTING WOOD POLE	
EXISTING CONCRETE POLE	
POTENTIAL CONFLICT LOCATION TO BE POT HOLED PRIOR TO CONSTRUCTION	

<b>SD-11</b> STA. 108+38.57 (41.87' L) CONST. TYPE E INLET GRATE EL. = 19.25 INV. EL. = 15.20 (E)	<b>SD-12</b> STA. 106+23.79 (69.19' R) CONST. TYPE E INLET GRATE EL. = 16.40 INV. EL. = 11.73 (W)	<b>SD-13</b> STA. 108+35.44 (71.71' R) CONST. TYPE E INLET GRATE EL. = 15.63 INV. EL. = 12.20 (W) INV. EL. = 12.20 (SE)	<b>SD-7</b> CONST. TYPE E CURB & GUTTER (TYP.)
<b>SD-14</b> STA. 106+45.03 (73.09' R) CONST. 36" MES	<b>SD-15</b> STA. 108+05.59 (73.52' R) CONST. 36" MES	<b>SD-16</b> STA. 105+99.60 (30.10' R) CONST. TYPE C INLET GRATE EL. = 20.08 INV. EL. = 14.08 (N)	<b>SD-17</b> STA. 108+64.19 (17.39' R) CONST. TYPE C INLET GRATE EL. = 20.71 INV. EL. = 15.02 (S)



SEE SHEET 12

SEE SHEET 13

301 NW Flagler Ave  
Stuart, Florida 34994  
Phone: (772) 892-4344  
Fax: (772) 892-4341

**CAPTEC**  
Engineering, Inc.  
Civil Engineering Professionals

Engineering Business  
No. EB-007857

DATE: 4/15/22

DRAWN BY:	BJD
DESIGNED BY:	BJD
CHECKED BY:	JWC
PROJECT NO.:	1813.25
HORIZ. SCALE:	1"=30'
VERT. SCALE:	1"=30'
CAUD. REVISIONS:	PAVING & DRAINAGE

**SCALE VERIFICATION**

0 0.5 1 1.5

SOLID BAR IS EQUAL TO HALF AN INCH ON ORIGINAL DRAWING. ADJUSTED DIMENSIONS ACCORDINGLY.

**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**

CITY OF PORT ST. LUCIE, FLORIDA

**PAVING & DRAINAGE**

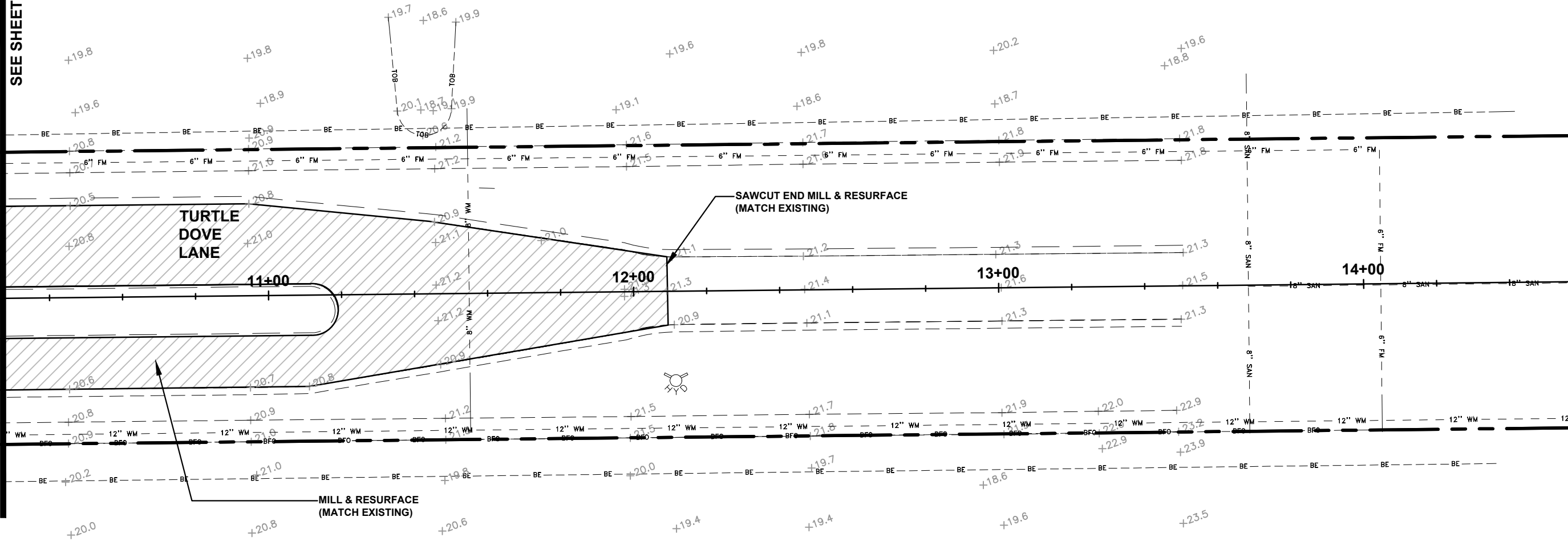
Joseph W. Capra  
301 N.W. Flagler Ave.  
Stuart, Florida 34994  
P.E. No. 37638

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SCALE: 1" = 30'

SEE SHEET 11



**LEGEND:**

- CONSTRUCT STORM PIPE
- CONSTRUCT 4" CONC. WALK
- CONSTRUCT PAVEMENT
- MILL & OVERLAY
- CENTERLINE SWALE
- EXISTING TOE OF SLOPE
- EXISTING TOP OF BANK
- EXISTING OVERHEAD UTILITY
- EXISTING WOOD POLE
- EXISTING CONCRETE POLE
- POTENTIAL CONFLICT LOCATION TO BE POT HOLED PRIOR TO CONSTRUCTION

301 NW Flagler Ave  
Stuart, Florida 34994  
Phone: (772) 692-4344  
Fax: (772) 692-4341

**CAPTEC**  
Engineering, Inc.  
Civil Engineering Professionals

DATE: 4/15/22

DRAWN BY: BJD  
DESIGNED BY: BJD  
CHECKED BY: JWC  
PROJECT No.: 1813.25  
HORZ. SCALE: 1"=30'  
VERT. SCALE: AS SHOWN

CAUD: REBEZ PAVING & DRAINAGE

NO.	DATE	BY	REVISIONS
5	4/20/23	MDB	100% PLANS
4	4/23/23	BJD	100% PLANS
3	8/29/22	BJD	90% PLANS
2	4/18/22	BJD	80% PLANS
1	2/7/22	BJD	30% PLANS

**SCALE VERIFICATION**

0 0.5

SOLID BAR IS EQUAL TO HALF AN INCH ON ORIGINAL DRAWING. ALL DIMENSIONS ACCORDINGLY.

**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
CITY OF PORT ST. LUCIE, FLORIDA

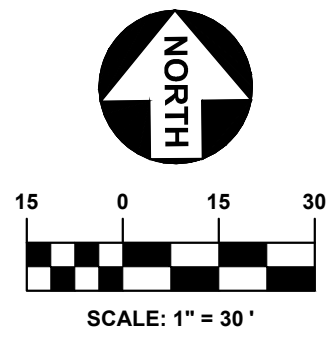
**PAVING & DRAINAGE**

Joseph W. Capra  
301 N.W. Flagler Ave.  
Stuart, Florida 34994  
P.E. No. 37638

Printed Date: \_\_\_\_\_

JOB No.: 1813.25  
SHEET 12 OF 24

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC.



SEE SHEET 11

MILL & RESURFACE  
(MATCH EXISTING)

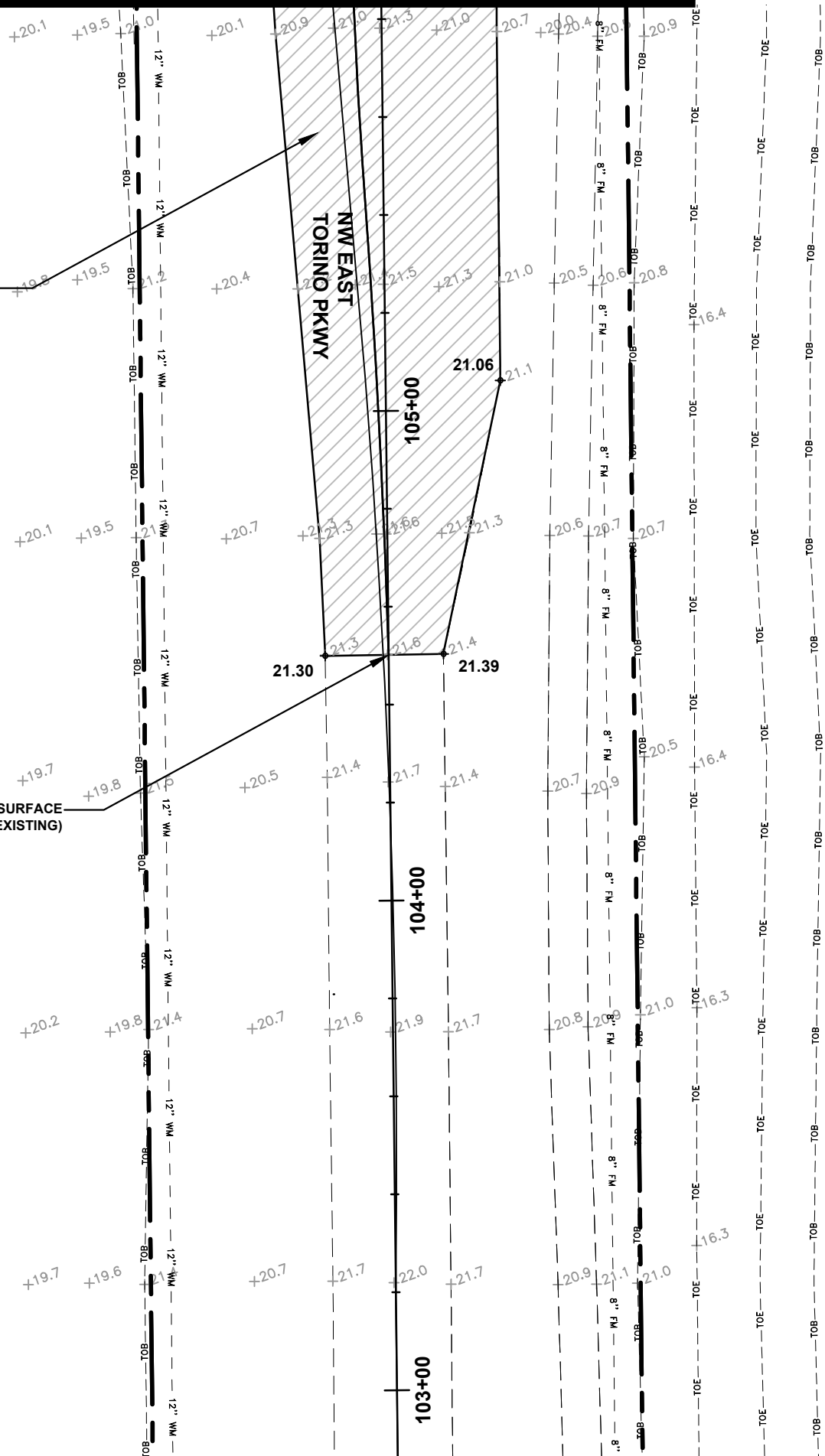
SAWCUT END MILL & RESURFACE  
(MATCH EXISTING)

NW EAST  
TORINO PKWY

105+00

104+00

103+00



**LEGEND:**

- CONSTRUCT STORM PIPE
- CONSTRUCT 4" CONC. WALK
- CONSTRUCT PAVEMENT
- MILL & OVERLAY
- CENTERLINE SWALE
- EXISTING TOE OF SLOPE
- EXISTING TOP OF BANK
- EXISTING OVERHEAD UTILITY
- EXISTING WOOD POLE
- EXISTING CONCRETE POLE
- POTENTIAL CONFLICT LOCATION TO BE POT HOLED PRIOR TO CONSTRUCTION

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**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
CITY OF PORT ST. LUCIE, FLORIDA

**PAVING & DRAINAGE**

Joseph W. Capra  
301 N.W. Flagler Ave.  
Stuart, Florida 34994  
P.E. No. 37638

Printed Date: \_\_\_\_\_

JOB No.: **1813.25**  
SHEET  
**13** OF **24**

DATE: 4/15/22  
DRAWN BY: BJD  
DESIGNED BY: BJD  
CHECKED BY: JWC  
PROJECT No.: 1813.25  
HORZ. SCALE: 1"=30'  
VERT. SCALE: \_\_\_\_\_

NO.	DATE	BY	REVISIONS
5	4/20/23	MDB	100% PLANS
4	4/23/23	BJD	100% PLANS
3	8/29/22	BJD	90% PLANS
2	4/18/22	BJD	80% PLANS
1	2/17/22	BJD	30% PLANS

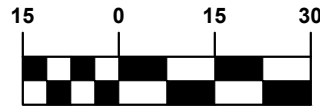
SCALE VERIFICATION  
0 0.5  
SOLID BAR IS EQUAL TO HALF AN INCH ON ORIGINAL DRAWING. ALL DIMENSIONS ACCORDINGLY.

DATE: 4/15/22  
DRAWN BY: BJD  
DESIGNED BY: BJD  
CHECKED BY: JWC  
PROJECT No.: 1813.25  
HORZ. SCALE: 1"=30'  
VERT. SCALE: \_\_\_\_\_

CAUD: REBEZ PAVING & DRAINAGE

• 301 NW Flagler Ave  
Stuart, Florida 34994  
Phone: (772) 892-4344  
Fax: (772) 892-4341

**CAPTEC**  
Engineering, Inc.  
Civil Engineering Professionals  
Engineering Business  
No. EB-007857

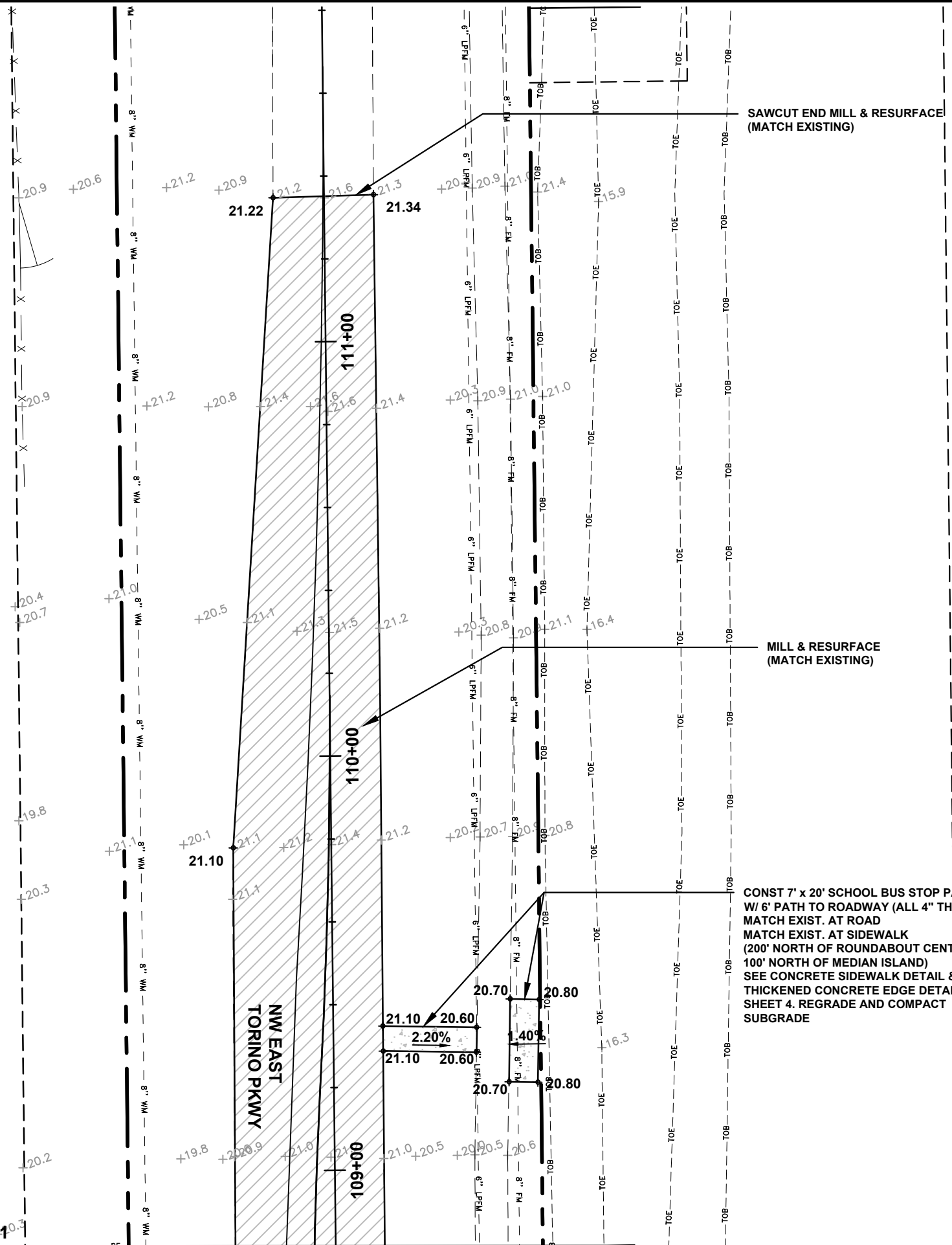


SCALE: 1" = 30'

**LEGEND:**

- CONSTRUCT STORM PIPE
- CONSTRUCT 4" CONC. WALK
- CONSTRUCT PAVEMENT
- MILL & OVERLAY
- CENTERLINE SWALE
- EXISTING TOE OF SLOPE
- EXISTING TOP OF BANK
- EXISTING OVERHEAD UTILITY
- EXISTING WOOD POLE
- EXISTING CONCRETE POLE
- POTENTIAL CONFLICT LOCATION TO BE POT HOLED PRIOR TO CONSTRUCTION

SEE SHEET 11



SAWCUT END MILL & RESURFACE (MATCH EXISTING)

MILL & RESURFACE (MATCH EXISTING)

CONST 7' x 20' SCHOOL BUS STOP PAD W/ 6' PATH TO ROADWAY (ALL 4" THICK) MATCH EXIST. AT ROAD MATCH EXIST. AT SIDEWALK (200' NORTH OF ROUNDABOUT CENTER 100' NORTH OF MEDIAN ISLAND) SEE CONCRETE SIDEWALK DETAIL & THICKENED CONCRETE EDGE DETAIL SHEET 4. REGRADE AND COMPACT SUBGRADE

301 NW Flagler Ave  
Stuart, FL 34994  
Phone: (772) 692-4344  
Fax: (772) 692-4341

**CAPTEC**  
Engineering, Inc.  
Civil Engineering Professionals

DATE: 4/15/22  
 DRAWN BY: BJD  
 DESIGNED BY: BJD  
 CHECKED BY: JWC  
 PROJECT No.: 1813.25  
 HORZ. SCALE: 1"=30'  
 VERT. SCALE: AS SHOWN  
 CAUD: REBEZ PAVING & DRAINAGE

NO.	DATE	BY	REVISIONS
5	4/20/23	MDB	100% PLANS
4	4/23/23	BJD	100% PLANS
3	8/29/22	BJD	90% PLANS
2	4/15/22	BJD	80% PLANS
1	2/17/22	BJD	30% PLANS

**SCALE VERIFICATION**  
 0 0.5  
 SOLID BAR IS EQUAL TO HALF AN INCH ON ORIGINAL DRAWING. ALL DIMENSIONS SHALL BE ACCORDINGLY

**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
 CITY OF PORT ST. LUCIE, FLORIDA

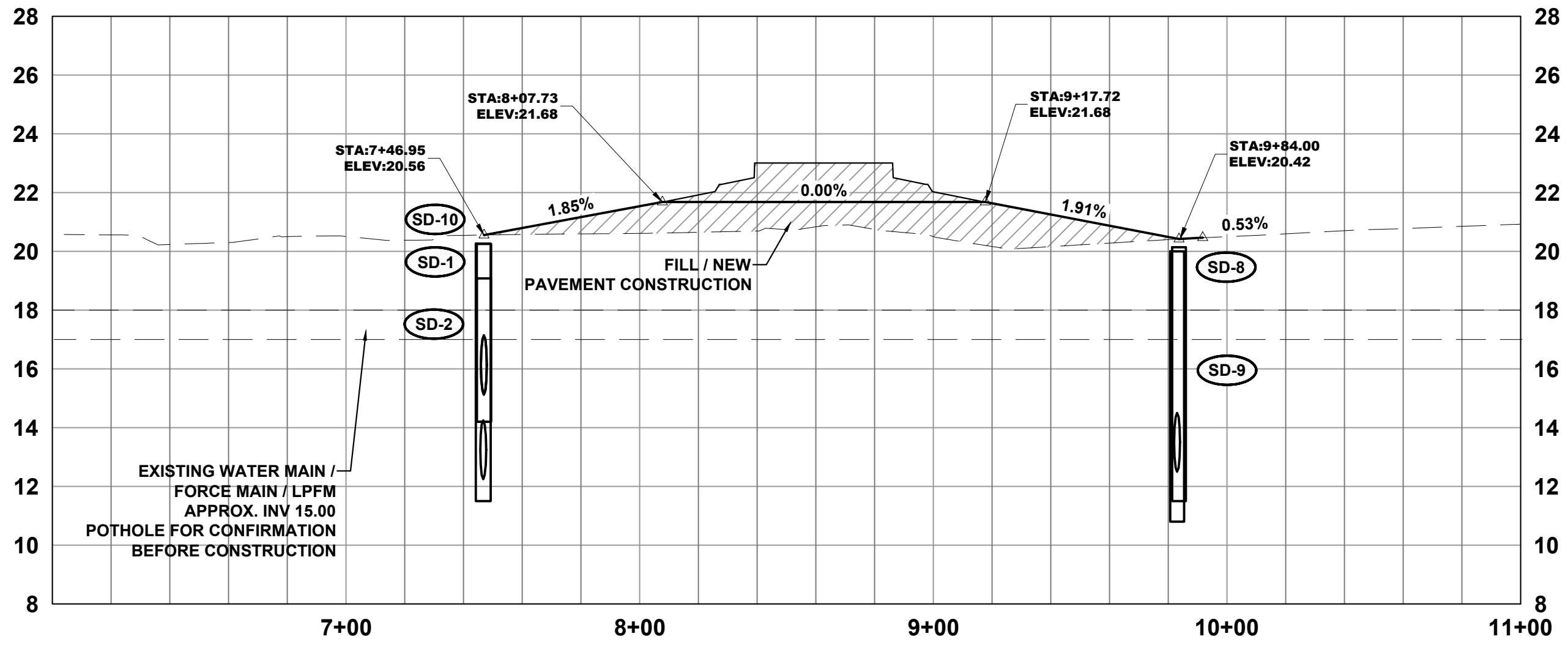
**PAVING & DRAINAGE**

Joseph W. Capra  
 301 N.W. Flagler Ave.  
 Stuart, Florida 34994  
 P.E. No. 37638

Printed Date:

JOB No.: 1813.25  
 SHEET 14 OF 24

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**SD-1**

STA. 7+47.02 (25.34' L)  
 CONST. TYPE P-6 INLET  
 EOP EL. = 20.25  
 INV. EL. = 15.00 (S)  
 INV. EL. = 15.12 (N)

**SD-2**

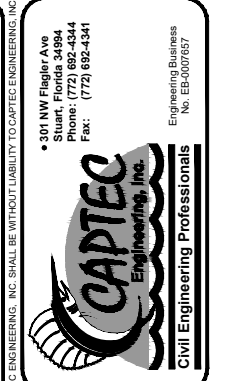
STA. 7+47.63 (13.48' R)  
 CONST. TYPE P-6 INLET  
 EOP EL. = 20.26  
 INV. EL. = 12.25 (SE)  
 INV. EL. = 15.12 (N)

**SD-9**

STA. 9+83.80 (26.41' R)  
 CONST. TYPE P-6 INLET  
 EOP EL. = 20.14  
 INV. EL. = 15.14 (N)

**SD-8**

STA. 9+83.16 (26.58' L)  
 CONST. TYPE P-6 INLET  
 EOP EL. = 20.00  
 INV. EL. = 12.50 (NW)  
 INV. EL. = 15.00 (S)



DATE: 4/15/22  
 DRAWN BY: BJD  
 DESIGNED BY: BJD  
 CHECKED BY: JWC  
 PROJECT No.: 1813.25  
 HORZ. SCALE: 1"=40'  
 VERT. SCALE: 1"=4'  
 CAUD: REBEZ PAVING & CONSTRUCTION

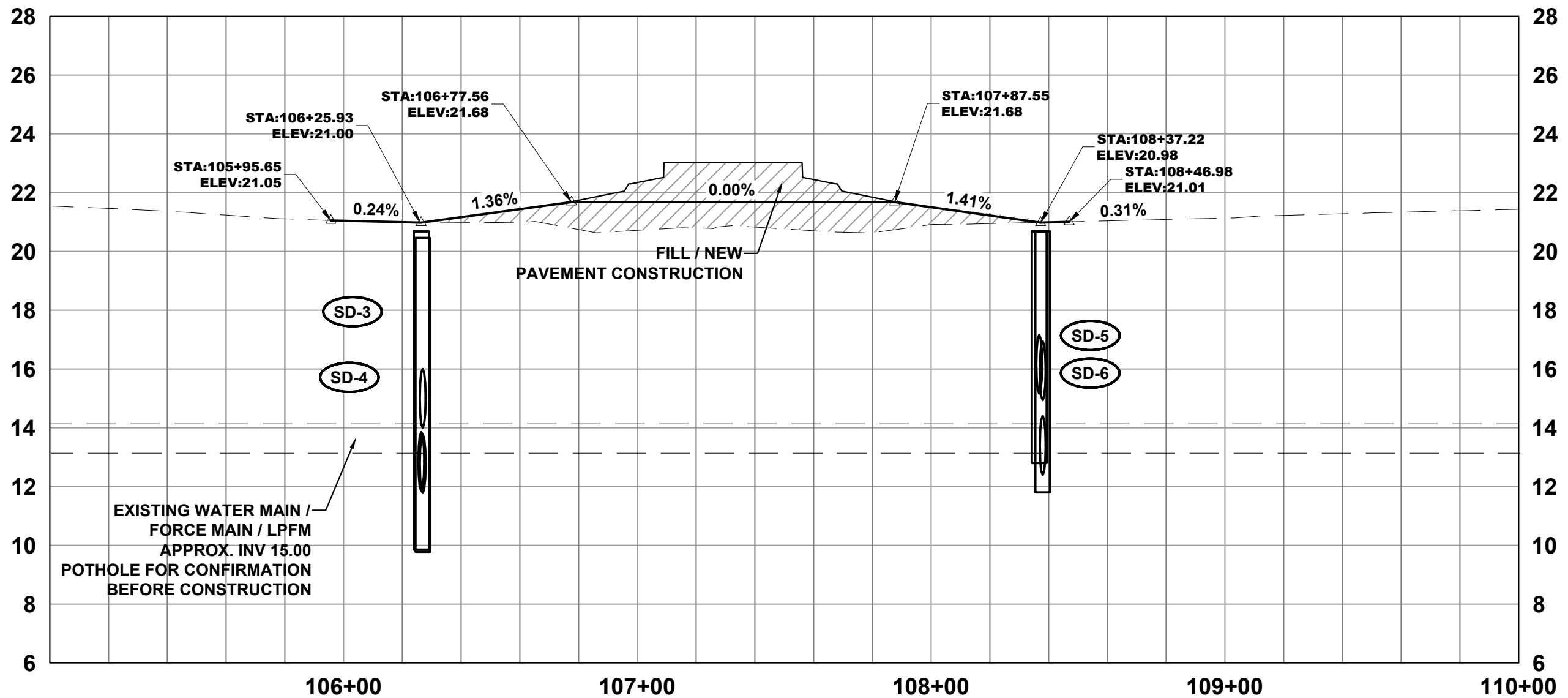
NO.	DATE	BY	REVISIONS
5	4/20/23	MBD	100% PLANS
4	4/2/23	BJD	100% PLANS
3	8/29/22	BJD	90% PLANS
2	4/18/22	BJD	80% PLANS
1	2/7/22	BJD	30% PLANS

SCALE: 1"=40'  
 VERIFICATION: 0.5'  
 SOLID BAR IS EQUAL TO HALF AN INCH ON ORIGINAL DRAWING. ALL DIMENSIONS ACCORDINGLY.

**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
 CITY OF PORT ST. LUCIE, FLORIDA  
**N TORINO & TURTLE DOVE PROFILE**

Joseph W. Capra  
 301 N.W. Flagler Ave.  
 Stuart, Florida 34994  
 P.E. No. 37638

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EXISTING WATER MAIN /  
FORCE MAIN / LPFM  
APPROX. INV 15.00  
POTHOLE FOR CONFIRMATION  
BEFORE CONSTRUCTION

**SD-3**

STA. 106+26.70 (25.51' L)  
CONST. TYPE P-6 INLET  
EOP EL. = 20.68  
INV. EL. = 11.85 (E)  
INV. EL. = 11.85 (NW)

**SD-4**

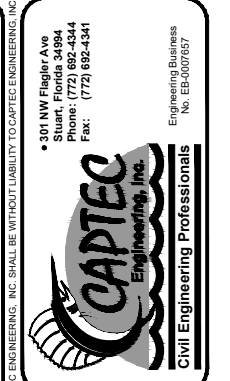
STA. 106+26.56 (25.76' R)  
CONST. TYPE P-6 INLET  
EOP EL. = 20.46  
INV. EL. = 11.78 (W)  
INV. EL. = 11.78 (E)  
INV. EL. = 14.00 (S)

**SD-5**

STA. 108+36.90 (26.34' L)  
CONST. TYPE P-6 INLET  
EOP EL. = 20.68  
INV. EL. = 15.16 (W)  
INV. EL. = 15.16 (E)

**SD-6**

STA. 108+37.88 (13.83' R)  
CONST. TYPE P-6 INLET  
EOP EL. = 20.68  
INV. EL. = 15.04 (W)  
INV. EL. = 12.40 (E)  
INV. EL. = 14.94 (N)



DATE: 4/15/22  
DRAWN BY: BJD  
DESIGNED BY: BJD  
CHECKED BY: JWC  
PROJECT No.: 1813.25  
HORZ. SCALE: 1"=40'  
VERT. SCALE: 1"=4'

NO.	DATE	BY	REVISIONS
5	4/20/23	MDR	100% PLANS
4	4/2/23	BJD	100% PLANS
3	8/29/22	BJD	90% PLANS
2	4/18/22	BJD	80% PLANS
1	2/7/22	BJD	30% PLANS

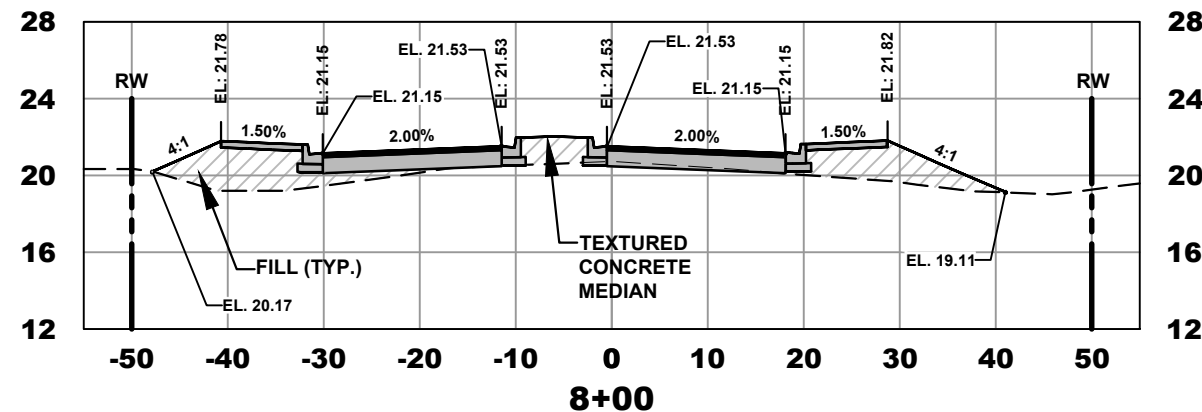
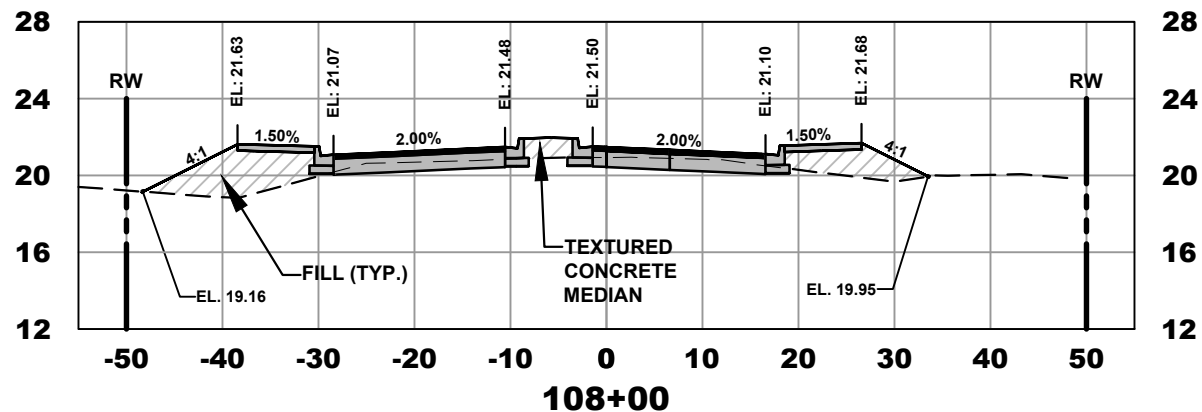
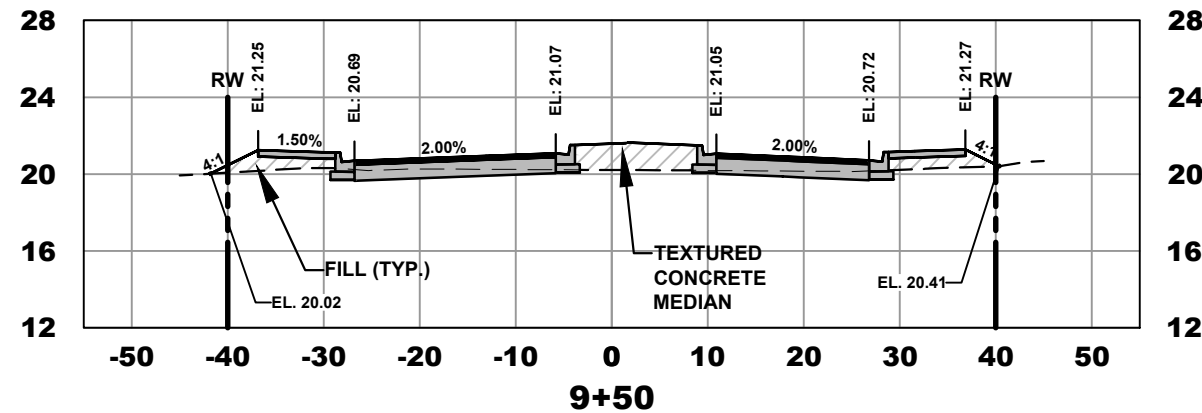
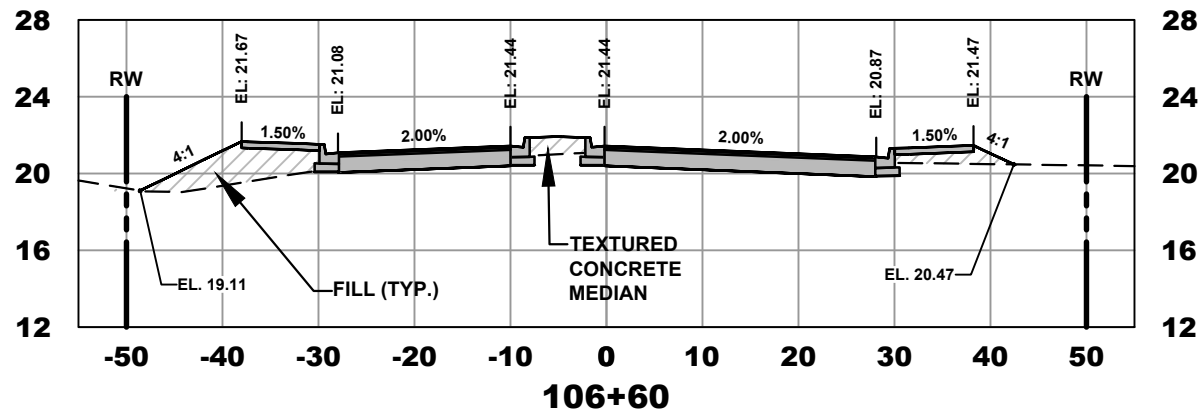
SCALE: 0.5  
VERIFICATION: 0.5  
SOLID BAR IS EQUAL TO HALF AN INCH ON ORIGINAL DRAWING. ALL DIMENSIONS ACCORDINGLY.

**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
CITY OF PORT ST. LUCIE, FLORIDA  
**NW EAST TORINO PROFILE**

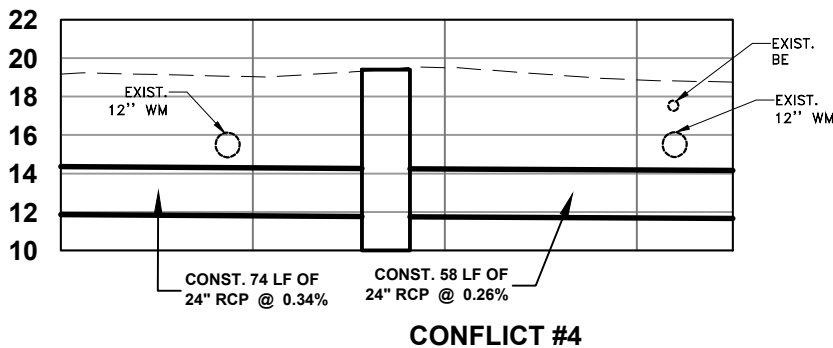
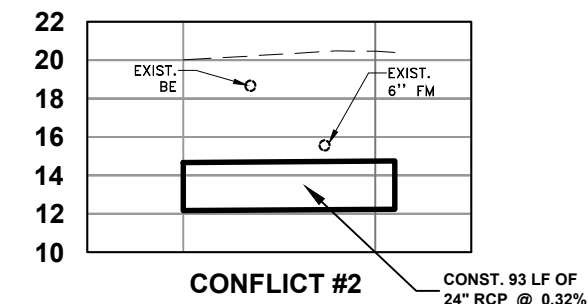
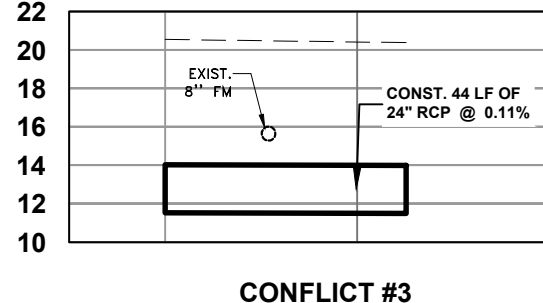
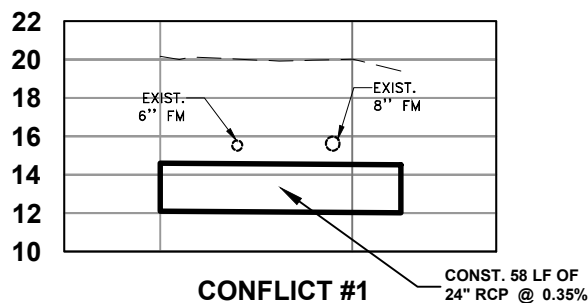
Joseph W. Capra  
301 N.W. Flagler Ave.  
Stuart, Florida 34994  
P.E. No. 37638

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NW E TORINO SECTIONS



**NOTE : ALL EXISTING UTILITIES ASSUMED TO BE APPROX. 36" BELOW EXISTING GRADE. ALL PROPOSED STORM PIPE TO BE INSTALLED BELOW EXISTING WATER MAIN / FORCE MAIN / LOW PRESSURE FORCE MAIN / BURIED ELECTRIC UTILITIES AT CONFLICT LOCATIONS. PROPOSED STORM PIPE INVERTS & EXISTING UTILITY ADJUSTMENTS MAY CHANGE AFTER POTHOLES. SEE SHEET 18**

VOLUMES TABLE

NAME	CUT	FILL	NET
REGULAR CUT & FILL	13 CY	1,180 CY	1,167 CY
FILL TO REPLACE FULL DEMO EXIST. PAVE	0 CY	675 CY	675 CY

TOTALS

	CUT	FILL	NET
REGULAR CUT & FILL	13 CY	1,855 CY	1,842 CY

NOTE: CUT FILL FACTOR OF 1:1 USED



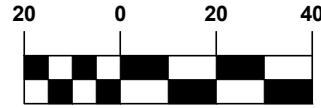
DATE: 4/15/22  
DRAWN BY: BJD  
DESIGNED BY: BJD  
CHECKED BY: JWC  
PROJECT NO.: 1813.25  
HORZ. SCALE: 1"=20'  
VERT. SCALE: 1"=10'  
CAUD: HIEBES PAVING & CONCRETE

NO.	DATE	BY	REVISIONS
5	4/20/23	MDR	100% PLANS
4	4/23/23	BJD	100% PLANS
3	8/29/22	BJD	90% PLANS
2	4/18/22	BJD	80% PLANS
1	2/17/22	BJD	30% PLANS

SCALE VERIFICATION  
0 0.5  
SOLID BAR IS EQUAL TO HALF AN INCH ON ORIGINAL DRAWING. ALL DIMENSIONS SHALL BE ACCORDINGLY.

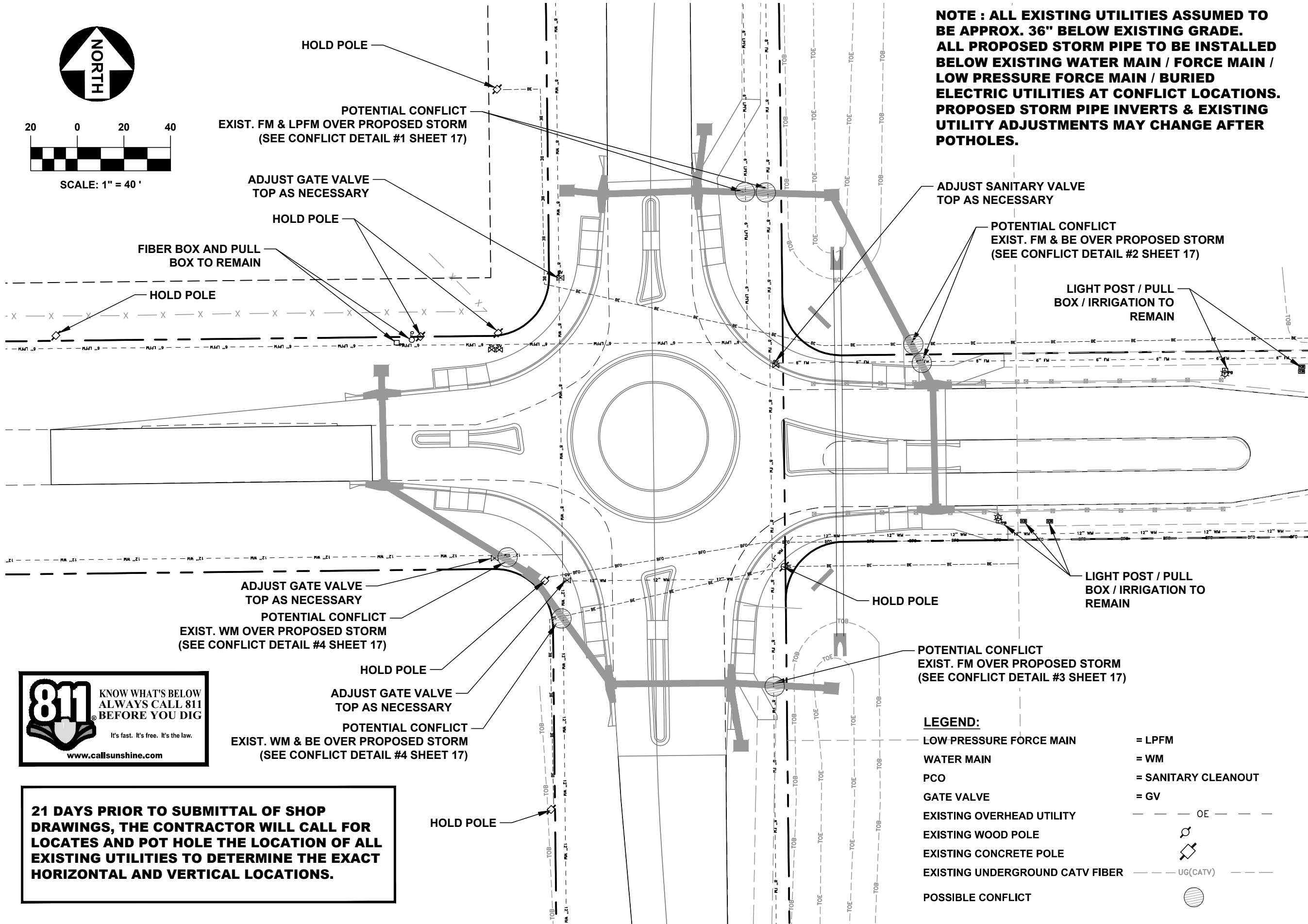
**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
CITY OF PORT ST. LUCIE, FLORIDA

Joseph W. Capra  
301 N.W. Flagler Ave.  
Stuart, Florida 34994  
P.E. No. 37638



SCALE: 1" = 40'

**NOTE : ALL EXISTING UTILITIES ASSUMED TO BE APPROX. 36" BELOW EXISTING GRADE. ALL PROPOSED STORM PIPE TO BE INSTALLED BELOW EXISTING WATER MAIN / FORCE MAIN / LOW PRESSURE FORCE MAIN / BURIED ELECTRIC UTILITIES AT CONFLICT LOCATIONS. PROPOSED STORM PIPE INVERTS & EXISTING UTILITY ADJUSTMENTS MAY CHANGE AFTER POTHOLES.**



POTENTIAL CONFLICT  
EXIST. FM & LPFM OVER PROPOSED STORM  
(SEE CONFLICT DETAIL #1 SHEET 17)

ADJUST GATE VALVE  
TOP AS NECESSARY

HOLD POLE

FIBER BOX AND PULL  
BOX TO REMAIN

HOLD POLE

ADJUST SANITARY VALVE  
TOP AS NECESSARY

POTENTIAL CONFLICT  
EXIST. FM & BE OVER PROPOSED STORM  
(SEE CONFLICT DETAIL #2 SHEET 17)

LIGHT POST / PULL  
BOX / IRRIGATION TO  
REMAIN

ADJUST GATE VALVE  
TOP AS NECESSARY

POTENTIAL CONFLICT  
EXIST. WM OVER PROPOSED STORM  
(SEE CONFLICT DETAIL #4 SHEET 17)

HOLD POLE

ADJUST GATE VALVE  
TOP AS NECESSARY

POTENTIAL CONFLICT  
EXIST. WM & BE OVER PROPOSED STORM  
(SEE CONFLICT DETAIL #4 SHEET 17)

HOLD POLE

LIGHT POST / PULL  
BOX / IRRIGATION TO  
REMAIN

POTENTIAL CONFLICT  
EXIST. FM OVER PROPOSED STORM  
(SEE CONFLICT DETAIL #3 SHEET 17)

HOLD POLE

**811** KNOW WHAT'S BELOW  
ALWAYS CALL 811  
BEFORE YOU DIG  
It's fast. It's free. It's the law.  
[www.callsunshine.com](http://www.callsunshine.com)

**21 DAYS PRIOR TO SUBMITTAL OF SHOP DRAWINGS, THE CONTRACTOR WILL CALL FOR LOCATES AND POT HOLE THE LOCATION OF ALL EXISTING UTILITIES TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATIONS.**

- LEGEND:**
- LOW PRESSURE FORCE MAIN = LPFM
  - WATER MAIN = WM
  - PCO = SANITARY CLEANOUT
  - GATE VALVE = GV
  - EXISTING OVERHEAD UTILITY = OE
  - EXISTING WOOD POLE
  - EXISTING CONCRETE POLE
  - EXISTING UNDERGROUND CATV FIBER = UG(CATV)
  - POSSIBLE CONFLICT

301 NW Flagler Ave  
Port St. Lucie, FL 34954  
Phone: (772) 892-4344  
Fax: (772) 892-4341

**CAPTEC**  
Engineering, Inc.  
Civil Engineering Professionals

DATE: 4/15/22

DRAWN BY:	BJD
DESIGNED BY:	BJD
CHECKED BY:	JWC
PROJECT NO.:	1813.25
HORIZ. SCALE:	1" = 40'
VERT. SCALE:	
CADD FILE:	

NO.	DATE	BY	REVISIONS
5	4/20/23	MDB	100% PLANS
4	4/23/23	BJD	100% PLANS
3	8/29/22	BJD	90% PLANS
2	4/18/22	BJD	80% PLANS
1	2/17/22	BJD	30% PLANS

**SCALE VERIFICATION**

0 0.5 1

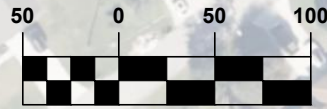
SOLID BAR IS EQUAL TO HALF AN INCH ON ORIGINAL DRAWING. ADJUSTED DIMENSIONS ACCORDINGLY

**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
CITY OF PORT ST. LUCIE, FLORIDA

**UTILITY ADJUSTMENT**

Joseph W. Capra  
301 N.W. Flagler Ave.  
Stuart, Florida 34994  
P.E. No. 37638

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SCALE: 1" = 100'

INSTALL SILT FENCE (TYP.)

N.W. EAST TORINO PKY.  
(100' PUBLIC R/W PER  
P.B. 16, PG. 40, 40A-40L)

INSTALL STAKED  
TURBIDITY BARRIER  
(TYP.)

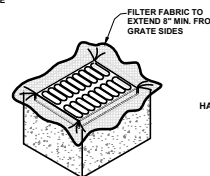
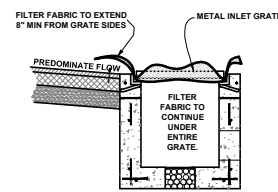
N.W. TURTLE DOVE LN.  
(80' PUBLIC R/W PER  
P.B. 55, PG. 1-4)

MATERIAL  
STOCKPILE AREA

N. TORINO PKY.  
(100' PUBLIC R/W PER  
P.B. 16, PG. 40, 40A-40L)

PROVIDE INLET PROTECTION ON ALL  
INLETS DURING CONSTRUCTION (TYP.)

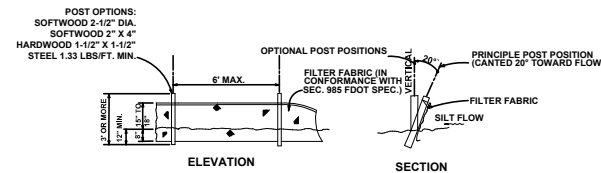
N.W. EAST TORINO PKY.  
(100' PUBLIC R/W PER  
P.B. 16, PG. 40, 40A-40L)



GENERAL NOTES

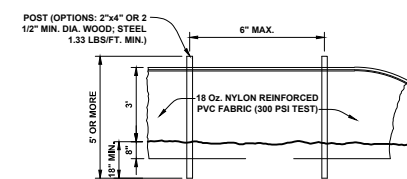
1. THIS INLET PROTECTION IS DESIGNED WITH FILTER FABRIC PROTRUDING 6" FROM SIDES FOR GRIPPING WHEN SEDIMENT NEEDS TO BE CLEARED AFTER FINAL CONSTRUCTION.
2. FILTER FABRIC TO BE INSTALLED AND TRIMMED BEFORE GRATE IS INSET.

INLET PROTECTION



TYPE III SILT FENCE

N.T.S.



STAKED TURBIDITY BARRIER

N.T.S.

301 NW Flagler Ave  
Stuart, FL 34994  
Phone: (772) 892-4344  
Fax: (772) 892-4341

**CAPTEC**  
Engineering, Inc.  
Civil Engineering Professionals

DATE: 4/15/22

DRAWN BY: BJD  
DESIGNED BY: BJD  
CHECKED BY: JWC  
PROJECT No.: 1813.25  
HORZ. SCALE: 1" = 100'  
VERT. SCALE: 1" = 100'  
CAAD FILE: 1813.25.ERO

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SCALE VERIFICATION

0 0.5 1

SOLID BAR IS EQUAL TO HALF AN INCH ON ORIGINAL DRAWING. ALL DIMENSIONS SHALL BE ACCORDINGLY.

**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
CITY OF PORT ST. LUCIE, FLORIDA

**EROSION & SEDIMENT CONTROL**

Joseph W. Capra  
301 N.W. Flagler Ave.  
Stuart, Florida 34994  
P.E. No. 37638

Printed Date: \_\_\_\_\_  
JOB No.: 1813.25  
SHEET  
**19** OF **24**

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**GENERAL NOTES EROSION CONTROL**

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

**1.0 SITE DESCRIPTION**

**1.A. NATURE OF CONSTRUCTION ACTIVITY**

CONSTRUCTION ACTIVITIES CONSIST OF THE CONSTRUCTION OF PAVEMENT, CONCRETE WALKS, DRAINAGE CULVERTS AND ROUNDABOUT ON 1.70 ACRES WITHIN THE CITY OF PORT ST. LUCIE OF ST. LUCIE COUNTY, FLORIDA.

**1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:**

THE FOLLOWING SEQUENCES OF MAJOR ACTIVITIES SHALL BE FOLLOWED UNLESS THE CONTRACTOR CAN PROPOSE AN ALTERNATIVE THAT IS EQUAL OR EXCEEDS THE EROSION AND SEDIMENT CONTROL PRACTICES DESCRIBED IN THIS DOCUMENT, AND APPROVED BY THE ENGINEER. THE DETAILED SEQUENCE FOR THE ENTIRE PROJECT CAN VARY SIGNIFICANTLY FROM CONTRACTOR TO CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES.

1. PLACEMENT OF ALL EROSION CONTROL DEVICES
2. CLEARING AND GRUBBING, EARTHWORK AND EXCAVATION OF PONDS.
3. STORM SEWER CONSTRUCTION; ALL STORM SEWER SHALL BE CONSTRUCTED IN THE UPSTREAM DIRECTION.
4. EARTHWORK ASSOCIATED WITH ROADWAY, CURB, SUBGRADE, BASE AND PAVEMENT.
5. FINAL SEED AND MULCH AND OR SODDING OF THE UNPAVED PROJECT AREA AS CALLED FOR IN PLANS

**1.C. AREA ESTIMATED**

TOTAL SITE AREA: 1.20± ACRES  
TOTAL AREA TO BE DISTURBED: 1.20± ACRES

**1.D. RUNOFF DATA:**

RUNOFF COEFFICIENTS: BEFORE: 0.25  
DURING: 0.25 - 0.95  
AFTER: 0.85

SOILS DATA: THE SOILS ARE FINE SAND TO CLEAN SANDS. THE SMALL SAND PARTICLE SIZE WILL MAKE THE POTENTIAL FOR EROSION HIGH.

**DRAINAGE AREAS FOR EACH OUTFALL:**

**1.E. SITE MAP:**

THE CONSTRUCTION PLANS WILL SUBSTITUTE AS SITE MAPS. LOCATIONS OF THE REQUIRED INFORMATION ARE DESCRIBED BELOW.

SURFACE WATERS:  
SURFACE WATER DISCHARGE IS SHOWN ON THE PAVING AND DRAINAGE PLAN. THE SURFACE WATER OF THE PROJECT WILL DISCHARGE TO A ADJACENT CANAL

**2.0 CONTROLS:**

**2.A. EROSION AND SEDIMENT CONTROLS:**

THE FOLLOWING DEFINES GENERAL QUANTITIES FOR THE SEQUENCE OF CONSTRUCTION AND THE USE OF STABILIZATION AND STRUCTURAL PRACTICES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP. THE CONSTRUCTION OF THIS PROJECT IS EXPECTED TO LAST SIX MONTHS.

INSTALL STABILIZED CONSTRUCTION ENTRANCES AT ALL COMMON AREAS WHERE CONSTRUCTION VEHICLES WILL BE ENTERING AND EXITING THE CONSTRUCTION SITE.

INSTALL SILT FENCE, TYPE III, AROUND ALL DITCH BOTTOM INLETS ON THE PROJECT, AND THE PROJECT PERIMETER. FILTER CLOTH UNDER THE GRATES ON CATCH BASINS MAY BE USED IN LIEU OF SILT FENCE

**2.A.1 STABILIZATION PRACTICES:**

TEMPORARY:  
SEED AND MULCH, AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:  
ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARY OR PERMANENTLY CHANGED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY CEASED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP.

**2.A.2 STRUCTURAL PRACTICES:**

TEMPORARY:  
SILT FENCE PER DETAIL  
STAKED TURBIDITY BARRIER PER DETAIL  
SOIL TRACKING PREVENTION DEVICE PER DETAIL. A STABILIZED CONSTRUCTION ENTRANCE TO BE CONSTRUCTED PER DETAIL. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBING ACTIVITY UPSTREAM OF THE CONTROL.

**2.B STORMWATER MANAGEMENT:**

STORMWATER WILL BE CONVEYED IN STORM SEWER SYSTEM, CROSS DETAILS, AND SWALES TO STORM INLETS.

**2.0 CONTROLS:**

**2.C.1 WASTE DISPOSAL:**

ALL CONSTRUCTION DEBRIS IS TO BE PLACED IN DUMPSTER AND HAULED OFF SITE TO A LANDFILL OR OTHER PROPER DISPOSAL SITE. NO MATERIALS WILL BE BURIED ON SITE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP.

**2.C.2 OFF-SITE VEHICLE TRACKING:**

THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION IF THE SWPPP. OFF SITE VEHICLE TRACKING OF SEDIMENTS AND DUST GENERATION WILL BE MINIMIZED VIA A ROCK CONSTRUCTION ENTRANCE, STREET SWEEPING AND THE USE OF WATER TO KEEP DUST DOWN

**2.C.3 STATE AND LOCAL REGULATION FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:**

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP. PORT-O-LETS WILL BE PLACED AWAY FROM STORM SEWER INLETS SURFACE WATERS AND WETLANDS.

**2.D STATE AND LOCAL PLANT**

THIS PROJECT WILL NOT REQUIRE A SURFACE WATER PERMIT MODIFICATION FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) DUE TO INTERSECTION IMPROVEMENT EXEMPTION.

**3.0 MAINTENANCE:**

ITEM	MAINTENANCE IN ACCORDANCE WITH SPECIFICATION SECTION 104.	PROPOSED REPLACEMENT INTERVAL
SILT FENCE		6 MONTHS
PONDS	REMOVE SEDIMENT WHEN IT BECOMES 0.15M (6") DEEP.	
SYNTHETIC BALES	REMOVE SEDIMENT WHEN IT REACHES 1/2 HEIGHT OF BALES.	3 MONTHS

THE CONTRACTOR SHALL MAINTAIN RAIN GAUGES ON-SITE AND RECORD DAILY RAINFALL. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SECTION 104 EROSION CONTROL PLAN.

**4.0 INSPECTIONS:**

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH.

- POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.
- DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- STRUCTURAL CONTROLS.
- STORMWATER MANAGEMENT SYSTEMS.
- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

**5.0 NON-STORMWATER DISCHARGES:**

THE CONTRACTOR IS REQUIRED TO SUBMIT A DEWATERING PLAN TO SFWMD FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES THAT REQUIRE DEWATERING. THIS PLAN SHALL INCLUDE ANY STOCKPILE AREAS AND EXCAVATION AREA.SEE SFWMD RULE 4D D2 CONSUMPTION USE OF WATER, RULE 4D D-3 REGULATION WELLS SPECIFYING REQUIREMENTS FOR DEWATERING AND ERP APPLICATION SECTION E, SUBSECTION D CONSTRUCTION SCHEDULE AND TECHNIQUES.

THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP. IF CONTAMINATED SOIL OF GROUNDWATER IS ENCOUNTERED, CONTACT THE DISTRICT HAZARDOUS MATERIALS COORDINATOR.

**6.0 RESPONSIBLE ENTITIES**

THIS SWPPP MUST CLEARLY IDENTIFY, FOR EACH MEASURE IDENTIFIED WITHIN THE SWPPP, THE CONTRACTOR (S) OR SUBCONTRACTOR (S) THAT WILL IMPLEMENT EACH MEASURE. ALL CONTRACTOR (S) AND SUBCONTRACTOR (S) THAT WILL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF THE MEASURES IDENTIFIED IN THE SWPPP MUST SIGN THE FOLLOWING CERTIFICATION:

301 NW Flagler Ave  
Stuart, Florida 34994  
Phone: (772) 892-4344  
Fax: (772) 892-4341

**CAPTEC**  
Engineering, Inc.  
Civil Engineering Professionals

No. EB-007857

DATE: 4/15/22  
DRAWN BY: BJD  
DESIGNED BY: BJD  
CHECKED BY: JWC  
PROJECT No.: 1813.25  
HORIZ. SCALE:  
VERT. SCALE:  
CADD FILE: 181325.ERO

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SCALE VERIFICATION

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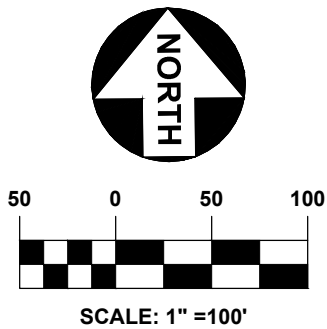
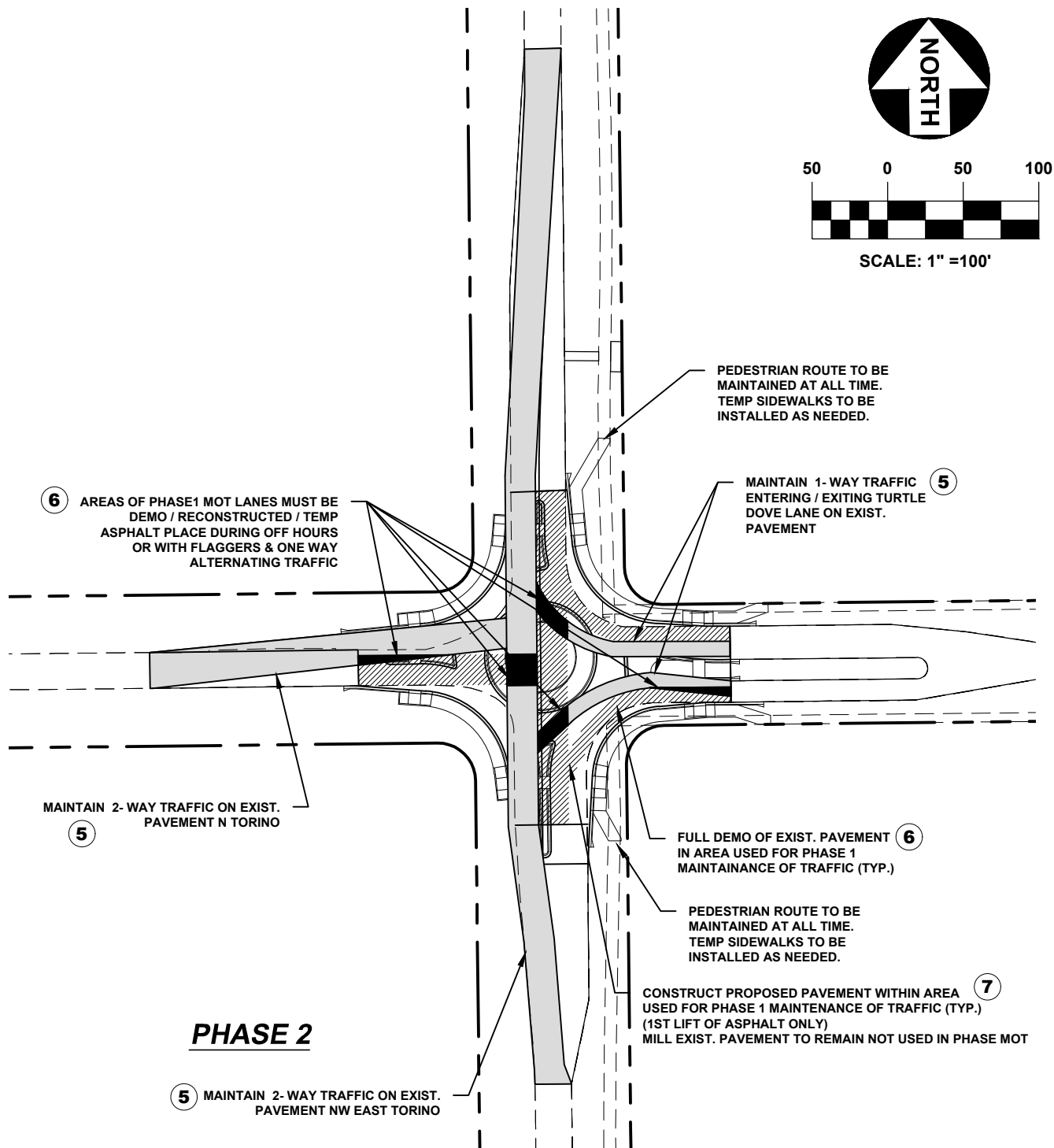
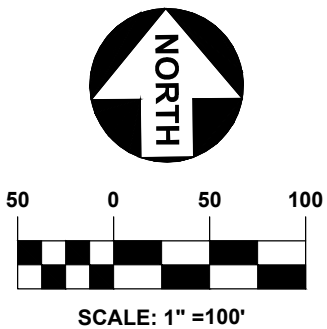
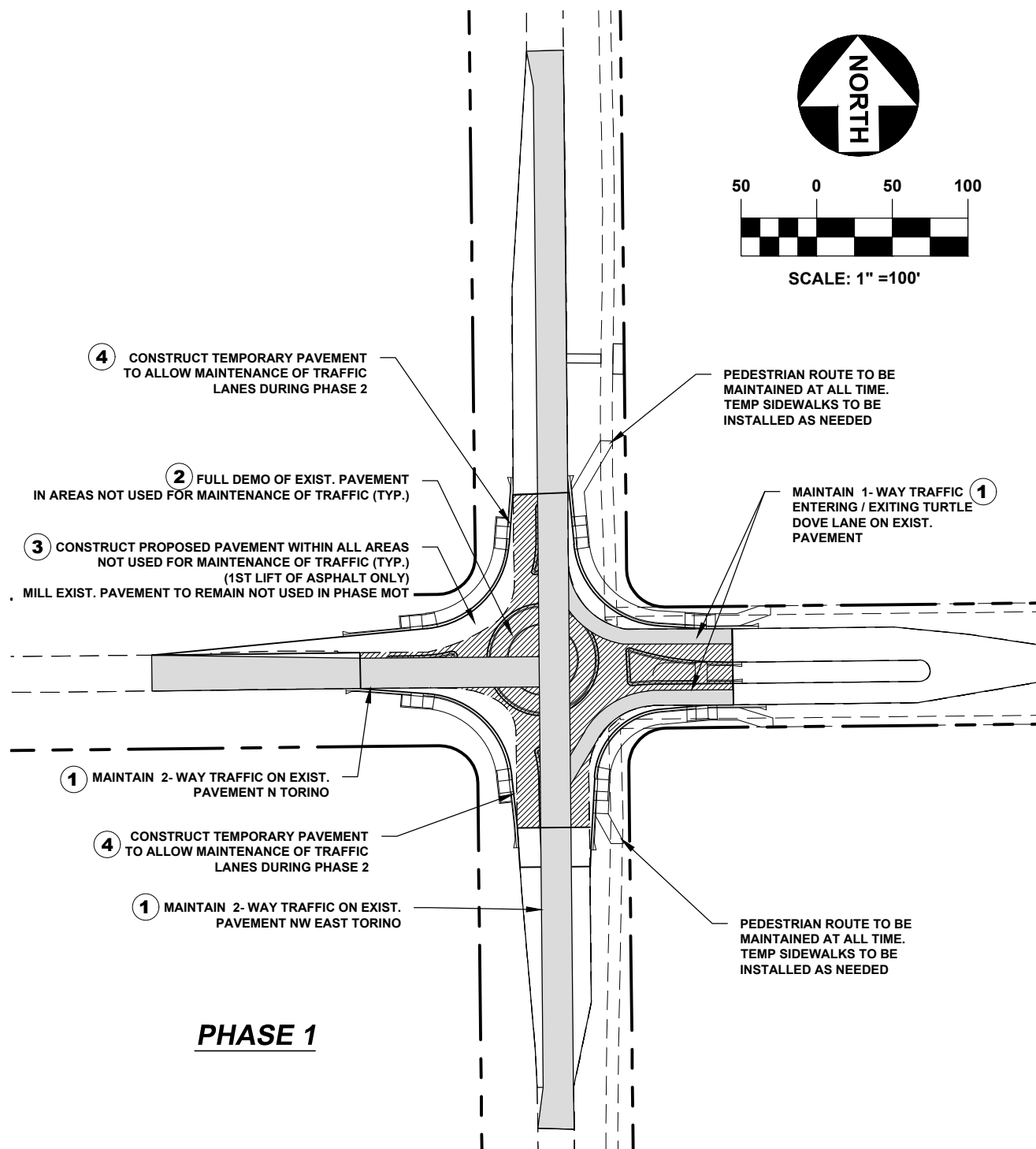
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**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
CITY OF PORT ST. LUCIE, FLORIDA

**EROSION & SEDIMENT CONTROL NOTES**

Joseph W. Capra  
301 N.W. Flagler Ave.  
Stuart, Florida 34994  
P.E. No. 37638

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**NOTE:**

1. INTERSECTION TO REMAIN OPEN DURING CONSTRUCTION AT ALL TIMES
2. SET UP EROSION CONTROL / PLACE TEMPORARY SIGNAGE AND MARKINGS PER FDOT INDEX 600 SERIES.
3. PLACE TEMPORARY PAVEMENT AS NEEDED TO MAINTAIN TRAFFIC FLOW.

- MAINTENANCE OF TRAFFIC PLAN MUST COMPLY WITH FDOT INDEX 600 SERIES DESIGN STANDARDS.
- CONTRACTOR TO SUPPLY A SIGNED AND SEALED LOCALIZED TRAFFIC CONTROL PLAN 2 WEEKS PRIOR TO COMMENCING CONSTRUCTION. NO ROAD CLOSURES ALLOWED. ANY PROPOSED ROAD/LANE CLOSURES MUST BE SUBMITTED FOUR WEEKS IN ADVANCE.
- PER FDOT INDEX 600, ANY DROP-OFF CONDITION THAT IS CREATED AND RESTORED WITHIN THE SAME WORK PERIOD WILL NOT BE SUBJECT TO THE USE OF BARRIERS; HOWEVER, WARNING DEVICES WILL BE REQUIRED.

891 NW Flagler Ave  
 Stuart, Florida 34984  
 Phone: (772) 882-4344  
 Fax: (772) 882-4341

Engineering Business  
 No. EB-007657  
 Civil Engineering Professionals

DATE: 4/15/22

DRAWN BY:	BJD
DESIGNED BY:	BJD
CHECKED BY:	JWC
PROJECT NO.:	1813.25
HORIZ. SCALE:	1" = 100'
VERT. SCALE:	1" = 100'

SCALE: 1" = 100'

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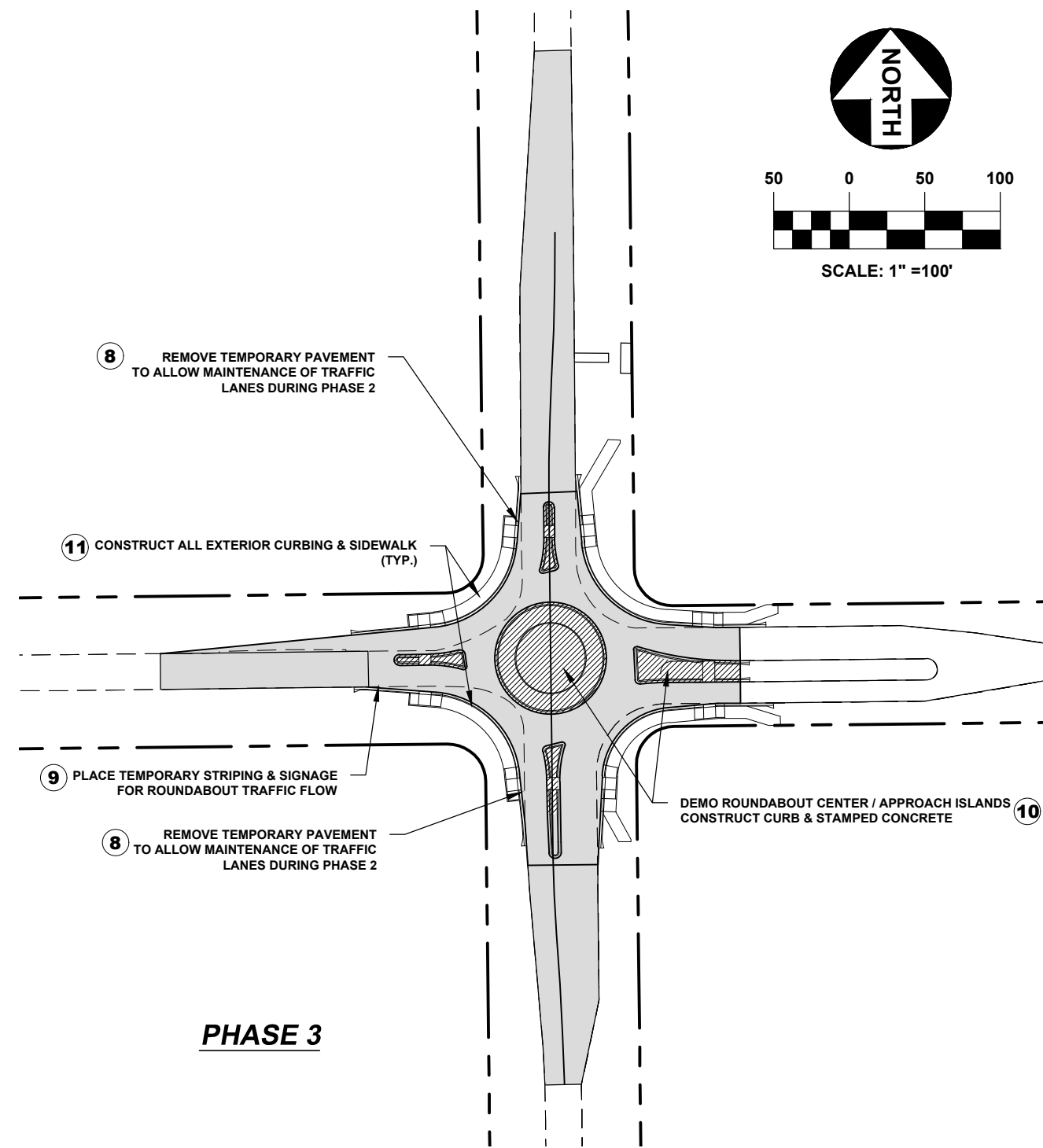
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**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**  
 CITY OF PORT ST. LUCIE, FLORIDA  
**TRAFFIC CONTROL**

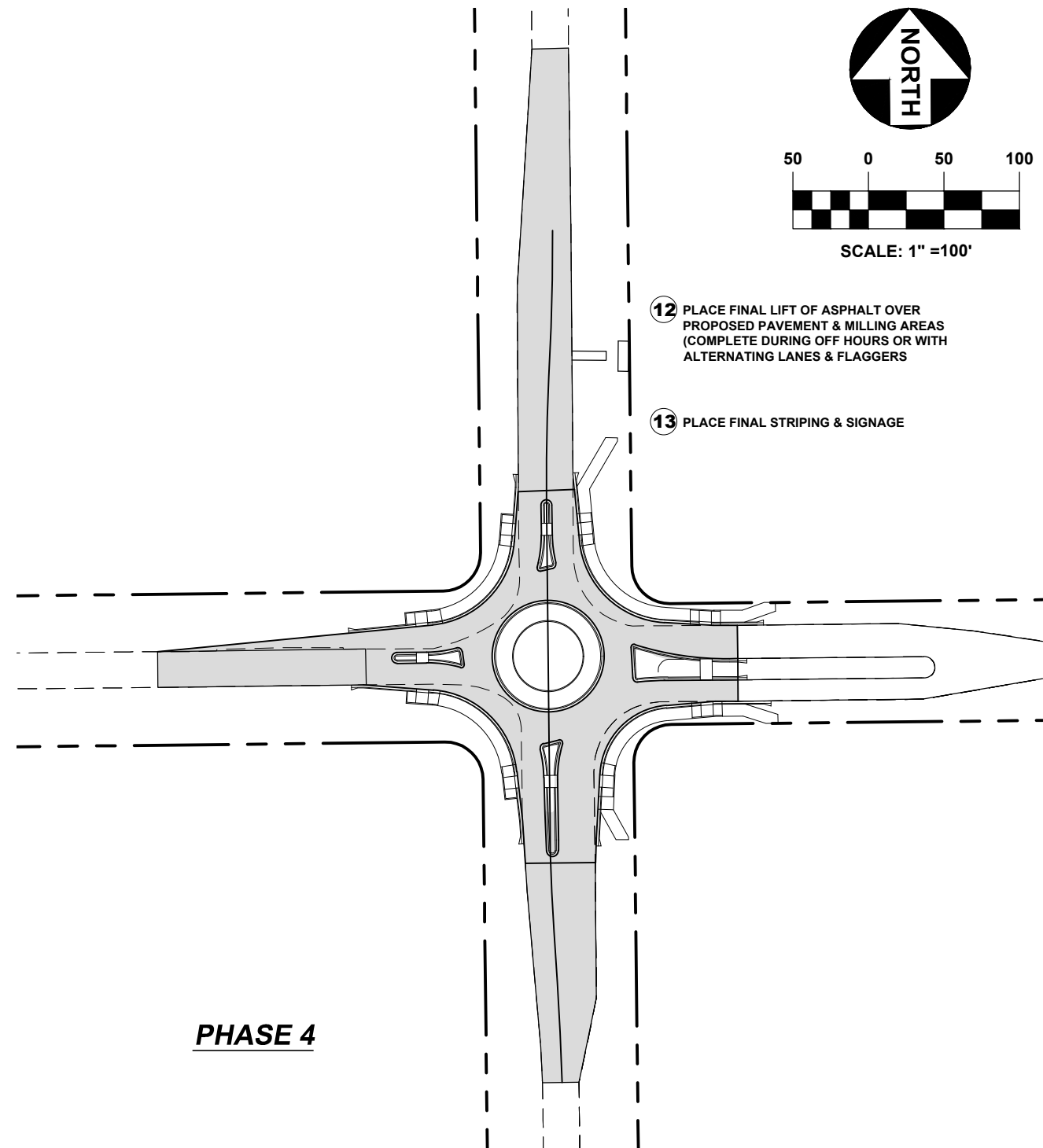
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**PHASE 3**



**PHASE 4**

**NOTE:**

1. INTERSECTION TO REMAIN OPEN DURING CONSTRUCTION AT ALL TIMES
2. SET UP EROSION CONTROL / PLACE TEMPORARY SIGNAGE AND MARKINGS PER FDOT INDEX 600 SERIES.
3. PLACE TEMPORARY PAVEMENT AS NEEDED TO MAINTAIN TRAFFIC FLOW.

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Engineering Business  
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DRAWN BY:	BJD
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CADRENDER/TRAFFIC CONTROL

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**SCALE VERIFICATION**

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**TORINO PKWY AND TURTLE DOVE LN - ROUNDABOUT**

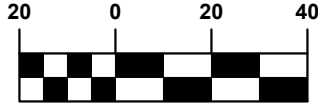
CITY OF PORT ST. LUCIE, FLORIDA

**TRAFFIC CONTROL**

Joseph W. Capra  
 301 N.W. Flagler Ave.  
 Stuart, Florida 34994  
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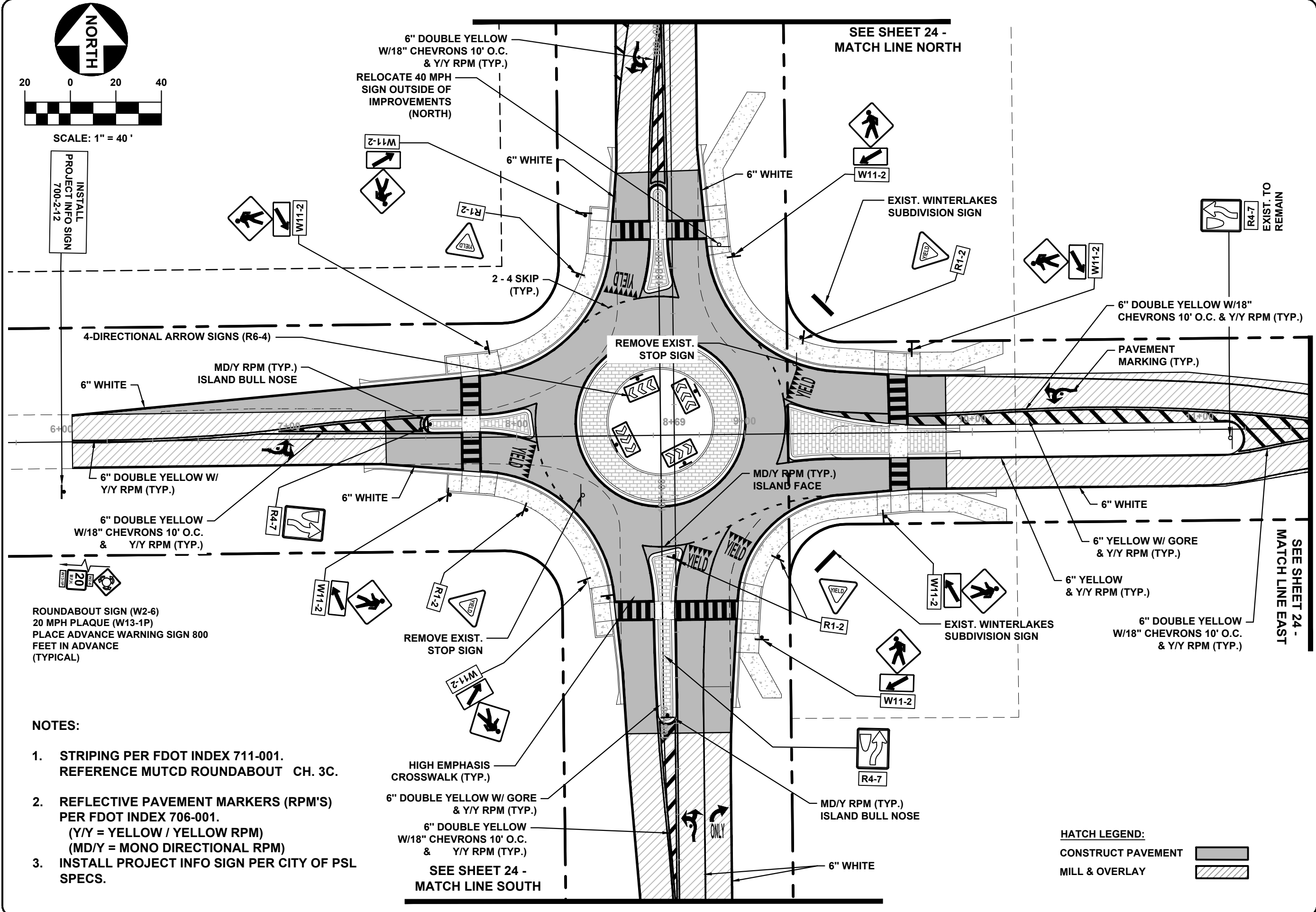
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SCALE: 1" = 40'

INSTALL PROJECT INFO SIGN 700-2-12



ROUNDBOULT SIGN (W2-6)  
20 MPH PLAQUE (W13-1P)  
PLACE ADVANCE WARNING SIGN 800  
FEET IN ADVANCE  
(TYPICAL)

NOTES:

1. STRIPING PER FDOT INDEX 711-001.  
REFERENCE MUTCD ROUNDBOULT CH. 3C.
2. REFLECTIVE PAVEMENT MARKERS (RPM'S)  
PER FDOT INDEX 706-001.  
(Y/Y = YELLOW / YELLOW RPM)  
(MD/Y = MONO DIRECTIONAL RPM)
3. INSTALL PROJECT INFO SIGN PER CITY OF PSL  
SPECS.

HIGH EMPHASIS  
CROSSWALK (TYP.)

6" DOUBLE YELLOW W/ GORE  
& Y/Y RPM (TYP.)

6" DOUBLE YELLOW  
W/18" CHEVRONS 10' O.C.  
& Y/Y RPM (TYP.)

SEE SHEET 24 -  
MATCH LINE SOUTH

HATCH LEGEND:

CONSTRUCT PAVEMENT

MILL & OVERLAY

301 NW Flagler Ave  
Stuart, FL 34994  
Phone: (772) 692-4344  
Fax: (772) 692-4341

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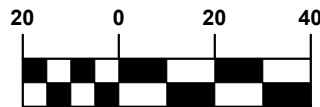
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TORINO PKWY AND TURTLE DOVE  
LN - ROUNDBOULT  
CITY OF PORT ST. LUCIE, FLORIDA

PAVEMENT MARKING &  
SIGNAGE

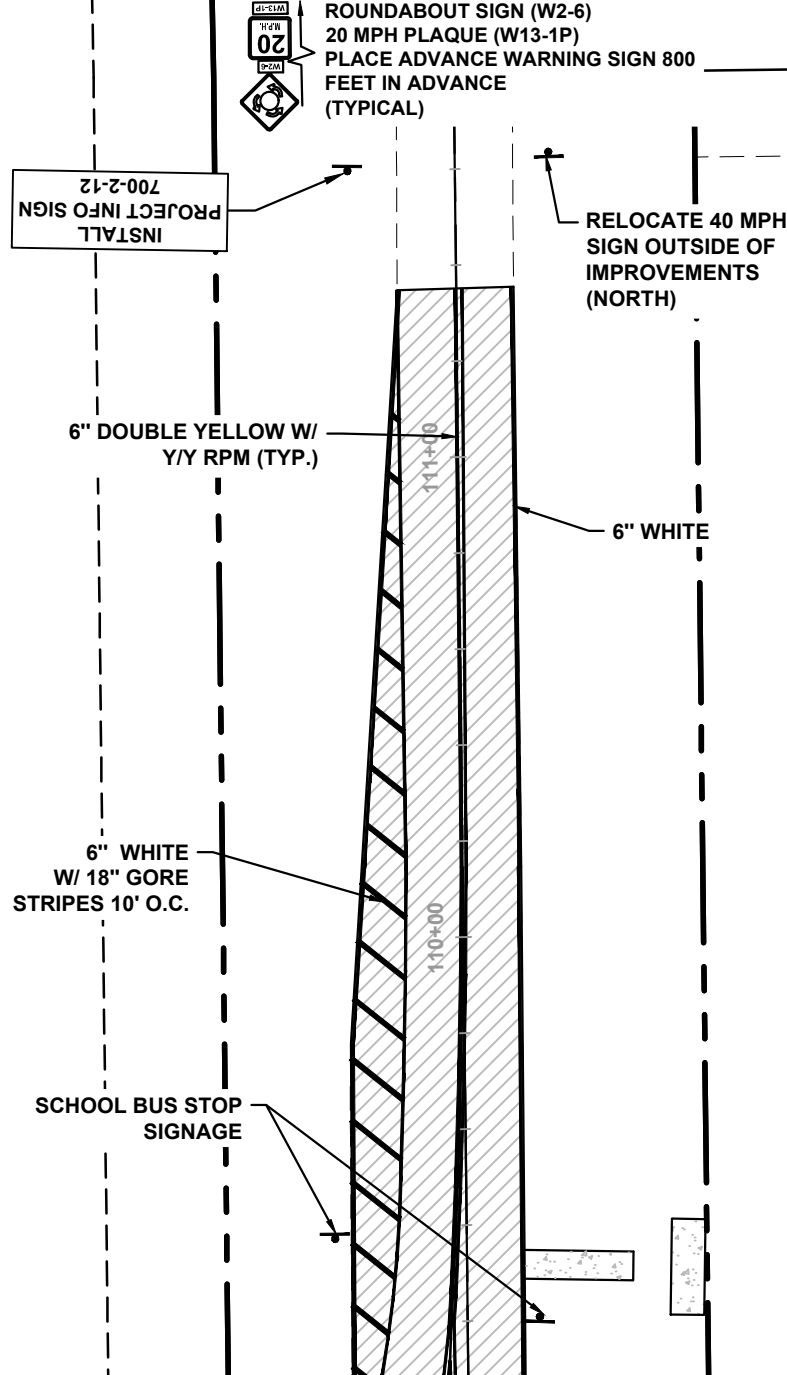
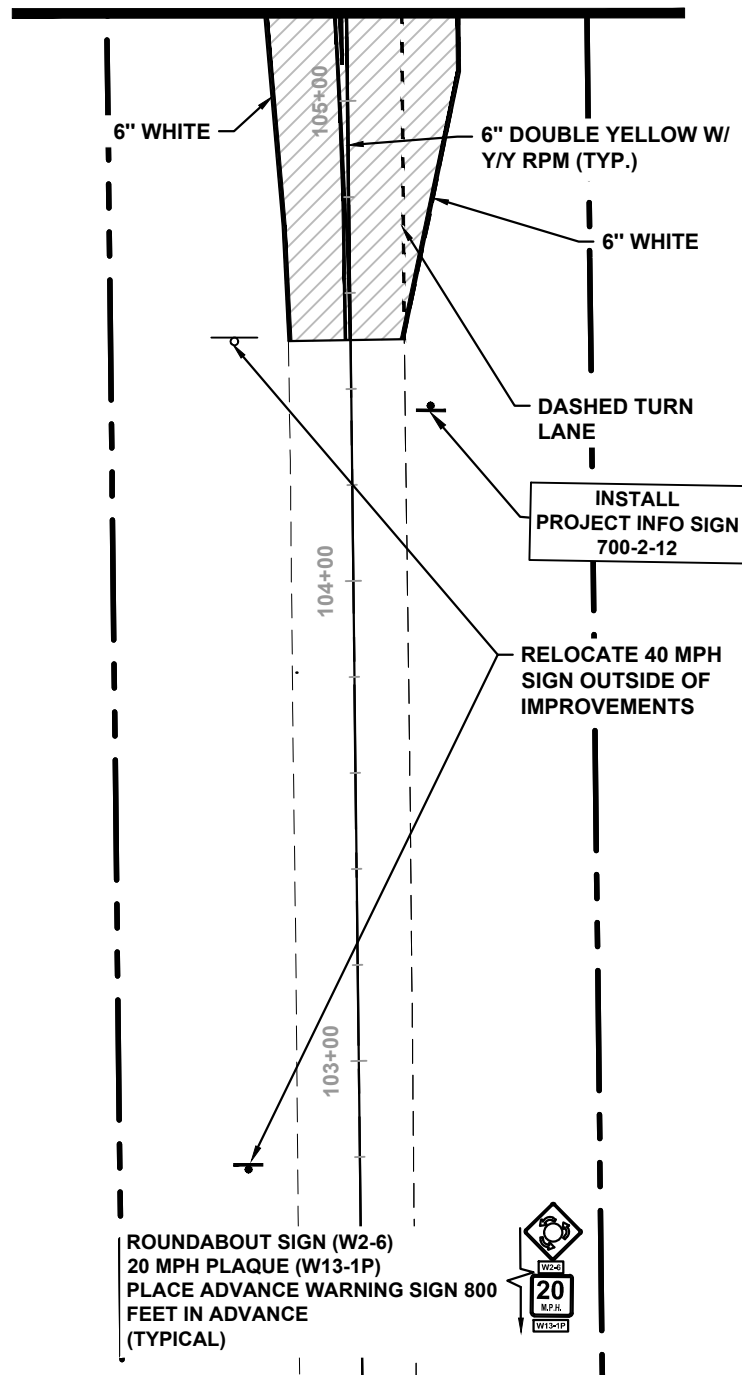
Joseph W. Capra  
301 N.W. Flagler Ave.  
Stuart, Florida 34994  
P.E. No. 37638

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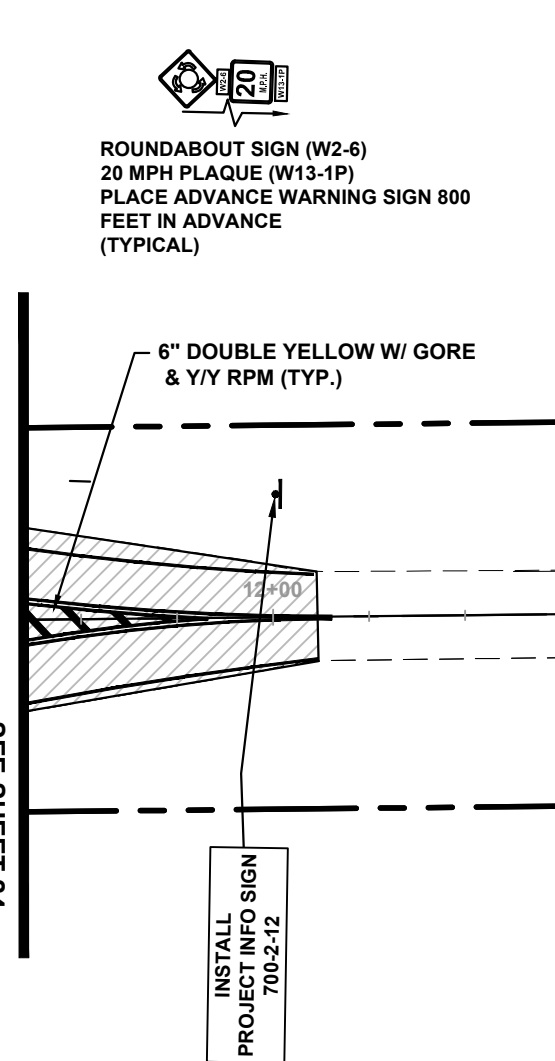
SCALE: 1" = 40'

SEE SHEET 23 -  
MATCH LINE SOUTH



SEE SHEET 23 -  
MATCH LINE NORTH

SEE SHEET 24 -  
MATCH LINE EAST



- NOTES:
1. STRIPING PER FDOT INDEX 711-001.  
REFERENCE MUTCD ROUNDABOUT CH. 3C.
  2. REFLECTIVE PAVEMENT MARKERS (RPM'S)  
PER FDOT INDEX 706-001. (Y/Y = YELLOW /  
YELLOW RPM )
  3. INSTALL PROJECT INFO SIGN PER CITY OF PSL  
SPECS.

301 NW Flagler Ave  
Stuart, Florida 34994  
Phone: (772) 692-4344  
Fax: (772) 692-4341

CAPTEC  
Engineering, Inc.  
Civil Engineering Professionals

DATE: 4/15/22  
DRAWN BY: BJD  
DESIGNED BY: BJD  
CHECKED BY: JWC  
PROJECT NO.: 1813.25  
HORZ. SCALE: 1" = 40'  
VERT. SCALE:  
CADD FILE: 181325.MARKING

NO.	DATE	BY	REVISIONS
5	4/20/23	MBD	100% PLANS
4	4/2/23	BJD	100% PLANS
3	8/29/22	BJD	90% PLANS
2	4/18/22	BJD	80% PLANS
1	2/7/22	BJD	30% PLANS

SCALE  
VERIFICATION

0 0.5

SOLID BAR IS EQUAL  
TO HALF AN INCH ON  
ORIGINAL DRAWING.  
ADJUSTED DIMENSIONS  
ACCORDINGLY

**TORINO PKWY AND TURTLE DOVE  
LN - ROUNDABOUT**  
CITY OF PORT ST. LUCIE, FLORIDA

**PAVEMENT MARKING &  
SIGNAGE**

Joseph W. Capra  
301 N.W. Flagler Ave.  
Stuart, Florida 34994  
P.E. No. 37638

Printed Date:  
JOB No.: 1813.25  
SHEET  
**24**  
OF **24**

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