SHEET DESCRIPTION

COVER SHEET

3 GENERAL NOTES AND LEGEND

4 TYPICAL SECTION

5 PROPOSED STORMWATER MANAGEMENT PLAN

6-16 DRAINAGE & MISCELLANEOUS DETAILS

17-20 EXISTING CONDITIONS

21-24 SEBRING PARKWAY PLAN & PROFILE

25 MEDICAL CENTER AVENUE PLAN & PROFILE

26-28 SIGNING & PAVEMENT MARKING PLAN

29-34 SEBRING PARKWAY CROSS SECTIONS
35 MEDICAL CENTER AVENUE CROSS SECTION

35 MEDICAL CENTER AVENUE CROSS SECTIONS

36 HIGHLANDS REGIONAL IMPROVEMENTS
 37-38 HIGHLANDS REGIONAL GRADING PLAN

SIGNALIZATION AND LIGHTING PLANS FOR SEBRING PARKWAY (PLEASE SEE ATTACHED PLAN SET PREPARED BY KIMLEY-HORN)



SEBRING PARKWAY PHASE II ELEVATION CONVERSION:

ELEVATION = SEBRI

SEBRING PARKWAY PHASE II ELEVATIONS SHOWN ON PERMITTED PLANS AS SUBMITTED FOR SWFWMD ERP

NAVD 1988 = ELEVATION - 0.98

SOURCE: NOAA ORTHOMETRIC HEIGHT CONVERSION (VERTCON)

TABULATION OF QUANTITIES

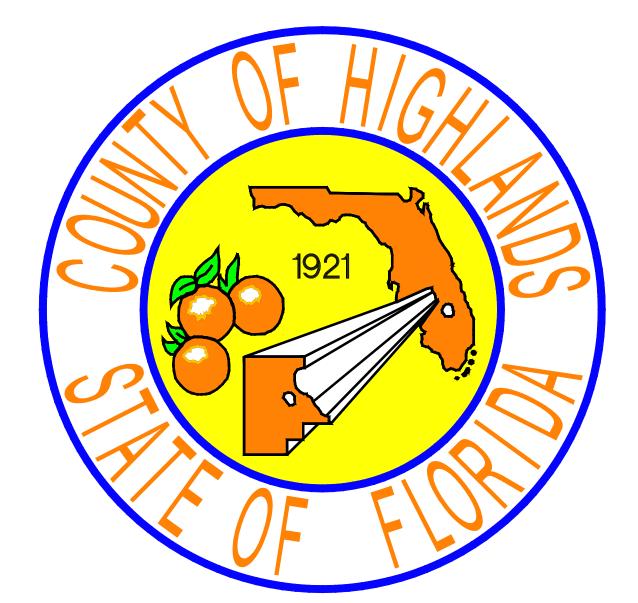
HIGHLANDS REGIONAL MEDICAL CENTER IMPROVEMENTS ALT 2: HIGHLANDS COUNTY PROJECT NO. 17063 ENGINEER'S OPINION OF PROBABLE COSTS QUANTITY UNIT ITEM DESCRIPTION MOBILIZATION BONDS & INSURANCE MAINTENANCE OF TRAFFIC SEDIMENT BARRIER TEMPORARY EXCAVATION/EMBANKMENT LS DETECTABLE WARNING SURFACE SY REMOVE EXISTING ASPHALT LF LF 12"(RCP) REINFORCED CONCRETE PIPE 18"x 12"(RCP) REINFORCED CONCRETE PIPE LF 15" (HDPE) HIGH DENSITY POLYETHYLENE PIPE DITCH BOTTOM INLET - TYPE 19 MITERED END SECTION 12" RCF 20 MITERED END SECTION 15"HDPE EA MITERED END SECTION 18"x 12"RCP 22 PERFORMANCE TURF (SOD) SINGLE POST SIGN, F & I, GM < 12 SF SINGLE POST SIGN, REMOVE & DISCARD EA PAINTED PAVEMENT MARKINGS, STD, WHITE, TURN & THRU ARROY EA 1 EA 27 PAINTED PAVEMENT MARKINGS, STD, WHITE, TURN ARROW 28 CONCRETE BUMPER GUARD 109 EA 29 PAINTED PAVEMENT MARKINGS, STD, BLUE 6" 30 PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID 6" 0.71 GM 300 LF 0.57 GM 31 PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID 24 32 PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID 6 33 HANDICAP SYMBOL 12 EA 34 BITUMINOUS SURFACE TREATMENT 9,100 SY 35 IRRIGATION 36 LANDSCAPING

HIGHLANDS COUNTY BOARD OF COUNTY COMMISSIONERS CONSTRUCTION PLANS FOR

SEBRING PARKWAY

PHASE II-B (DESOTO ROAD TO U.S. HIGHWAY NO 27)

FDOT FINANCIAL PROJECT ID 433553-1-54-01 HIGHLANDS COUNTY PROJECT NO. 17063

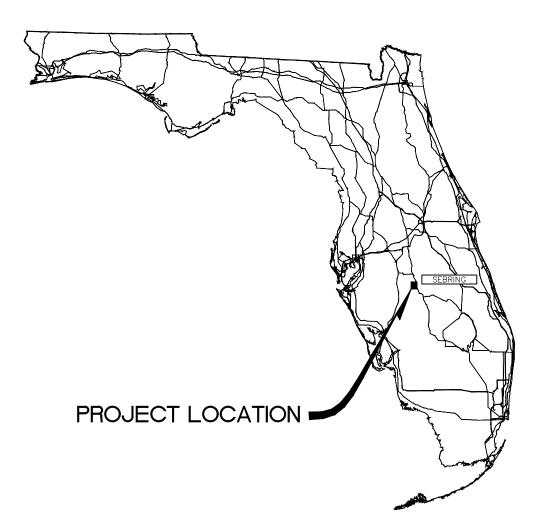


JAMES D. LANGFORD, JR., P.E. ASSISTANT COUNTY ENGINEER

ENGINEER OF RECORD JAMES D. LANGFORD, JR., P.E.

SEBRING PARKWAY IIB
RIGHT-OF-WAY WIDTH = 85'-206' WIDTH
APPROXIMATE PROJECT LENGTH = 3,122 LF (0.59 MILE)

MEDICAL CENTER AVENUE RIGHT-OF-WAY WIDTH = 56 ' WIDTH APPROXIMATE PROJECT LENGTH = 409 LF (0.08 MILE)



UTILITY COMPANIES

Kenneth R. Lutz CenturyLink Engineering 924 Memorial Dr. Avon Park, Fl. 33825 (W) (863) 452-3185 (C) (863) 214-1490 (F) (863) 452-3472 ken.lutz@centurylink.com

Mark R. Manner
Sr. Engineer (Distribution)
Duke Energy
2051 Old Scenic Highway
Lake Wales, FL 33898
(863) 678-4476
Mark.Manner@duke-energy.com

Steve Hoffman Comcast Cable 5205 Fruitville Road Sarasota, FL 34232 (941) 809-6637 Steve_Hoffman@cable.comcast.com

DATE:

12/4/2019

Sebring Gas System, Inc. 3515 US 27 N Sebring, FL 33870 (863) 385-0194 (F) (863) 385-3123 jmelendy@floridasbestgas.com

City of Sebring
Bob Boggus
321 N Mango St
Sebring, FL 33870
(863) 471-5112
bobboggus@mysebring.com
jimables@mysebring.com waste water
GarvinElkhill@mysebring.com water

Highlands County (Fiber Optic cable) Clinton "Gator" Howerton 505 S Commerce Av Sebring, FL 33870 (863) 402-6877 chowerton@hcbcc.org Sunshine state

ONE CALL

OIAL 811

Highlands County Traffic

Edward Cardona

505 S Commerce Av

Ecardona@hcbcc.org

DATE:

Sebring, FL 33870

(863) 402-6536

DIAL 811

Local No. 1-800-432-4770

Notification # 068600373

Call 48 hours before you dig.

STATE LAW REQUIRES EXCAVATORS TO CALL 811 BEFORE DIGGING PER THE "UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT" CHAPTER 556, FLORIDA STATUTES. FAILURE TO CALL CAN RESULT IN FINES FROM \$250 TO \$5,000.

TABULATION OF QUANTITIES

m : ~=-	BASE BID	077.1	1=:-11
TASKNO.	MOBILIZATION NONE OF THE PROPERTY OF THE PROP	QUANTITY 1	LS
3	BONDS & INSURANCE CONSTRUCTION SURVEY STAKING INCLUDING AS-BUILT	1	LS LS
4	TESTING (DENSITY, ROADWAY THICKNESS & CONCRETE)	1	LS
5	MAINTENANCE OF TRAFFIC	1	LS
6	BUSINESS SIGN DODTABLE CHANGEABLE MESS AGE SIGNS TEMPORARY (TWO)	40	EA
7 8	PORTABLE CHANGEABLE MESSAGE SIGNS, TEMPORARY (TWO) SEDIMENT BARRIER TEMPORARY	365 5,064	ED LF
9	CLEARING AND GRUBBING INCLUDING TREE REMOVAL	1	LS
10	REGULAR EXCAVATION	14,000	CY
11	REMOVE EXISTING ASPHALT PAVEMENT (DRIVEWAY & ROADWAY) VIA MILLING EMBANKMENT (IN-PLACE)	12,008 2,500	SY CY
13	TYPE B STABILIZATION, LBR 40 12" COMPACTED THICKNESS (ROADWAY) (DRIVEWAY)	18,788	SY
14	OPTIONAL BASE GROUP 9, 10" COMPACTED THICKNESS (ROADWAY) (DRIVEWAY)	19,465	SY
15	OPTIONAL BASE GROUP 1, 4"COMPACTED THICKNESS, (CONCRETE ISLANDS & CROSSWALK) SUPERPAVE ASPHALTIC CONCRETE, 3" THICK, RAP 30% MAXIMUM, PLACED IN TWO EQUAL LAYERS,	220	SY
16	1½" THICK EACH (ROADWAY)	2,960	TN
17	SUPERPAVE ASPHALTIC CONCRETE, 1½" THICK, RAP 30% MAXIMUM, ROADWAY (SIDE STREETS)	205	TN
	(DRIVEWAYS)		
18 19	CONCRETE SIDEWALK & MISC. CONCRETE, 4" THICK, TYPE NON-STRUCTURAL, 2,500 PSI MINIMUM CONCRETE CURB & GUTTER, TYPE F	3,653 7,952	SY LF
20	CONCRETE CURB, DROP CURB	769	LF
21	CONCRETE CURB TYPE, D	470	LF
22	CONCRETE CURB & GUTTER, TYPE RA (ROUNDABOUT CENTRAL ISLAND CONSTRUCTION) CONCRETE PAVEMENT FOR ROUNDABOUT TRUCK APRON, 10"THICK, 6"X6"W1.4\W1.4 WELDED WIRE	337	LF
23	MESH, 3500 PSI	381	SY
24	BROWN HERRINGBONE PATTERNED PAVEMENT (ROUNDABOUT TRUCK APRON)	381	SY
25	CONCRETE TRAFFIC SEPARATOR (SPECIAL) (TYPE IV) (3' WIDE)	135	SY
26 27	TRAFFIC SEPARATOR CONCRETE - TYPE IV, (4' WIDE) INDEX NO. 870 - ALUMINUM PIPE GUIDERAIL	510 35	LF LF
28	15"(HDPE) HIGH-DENSITY POLYETHYLENE PIPE	22	LF
29	18"(HDPE) HIGH-DENSITY POLYETHYLENE PIPE	1,911	LF
30	18" (RCP) REINFORCED CONCRETE PIPE 24" (HDPE) HIGH-DENSITY POLYETHYLENE PIPE	544 1,595	LF LF
32	23"x 14" REINFORCED CONCRETE PIPE (RCP)	220	LF
33	24"(RCP) REINFORCED CONCRETE PIPE	1,005	LF
34	30"(HDPE) HIGH-DENSITY POLYETHYLENE PIPE 30"x 10" DEINEOD CED CONCRETE DIDE (DCD)	77 389	LF LF
35	30"x 19"REINFORCED CONCRETE PIPE (RCP) 2"SCHEDULE 40 PVC IRRIGATION SLEEVE	504	LF
37	2"SCHEDULE 40 PVC CONDUIT PIPE	5,060	LF
38	INDEX NO. 211 - CURB INLET TYPE 5 (LEFT) WITH RECTANGULAR STRUCTURE BOTTOM	13	EA
39 40	INDEX NO. 211 - CURB INLET TYPE 5 (RIGHT) WITH RECTANGULAR STRUCTURE BOTTOM INDEX NO. 214 - CURB INLET TYPE 9 WITH RECTANGULAR STRUCTURE BOTTOM	13	EA
41	INDEX NO. 232 - DITCH BOTTOM INLET - TYPE C	11	EA
42	INDEX NO. 232 - DITCH BOTTOM INLET - TYPE D	3	EA
43	MANHOLE	6	EA
44	INDEX NO. 282 MODIFIED TYPE C UNDER WALK MITERED END SECTION 18"RCP	3 2	EA
46	MITERED END SECTION 30"HDPE	1	EA
47	MITERED END SECTION 30"x 19" RCP	1	EA
48	PERFORMANCE TURF (SOD)	25,543 10	SY
50	RUBBLE RIP-RAP (DITCH LINING) INC. GEOTEXTILE FABRIC & BEDDING STONE SINGLE POST SIGN, F & I, GM <12 SF	67	EA
51	SINGLE POST SIGN, F & I, GM >12 SF	5	EA
52	SINGLE POST SIGN, REMOVE & DISCARD (INCLUDING DELINEATORS)	65	EA
53 54	DELINEATOR, WHITE (HIGH VISIBILITY) DELINEATOR, YELLOW (HIGH VISIBILITY)	2	EA EA
55	RETRO-REFLECTIVE PAVEMENT MARKERS, YELLOW/RED	30	EA
56	RETRO-REFLECTIVE PAVEMENT MARKERS, CLEAR/RED	142	EA
57 58	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 6" TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 8"	1.57 0.053	GN GN
59	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 12"	1,404	LF
60	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 18"	246	LF
61 62	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 24" TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SKIP, 6" (2'/4')	810 0.078	LF GN
63	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SKIP, 6"(2'/4') TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SKIP, 6"(6'/10')	0.078	GN
64	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SKIP, 6" (10'/30')	0.7077	GN
65	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SKIP, 12"(3'/3')	0.055	GN
66	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, YELLOW, SKIP, 6"(6'/10') TEMPORARY PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID, 6"	0.045	GN GN
68	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID, 18"	54	LF
69	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, TURN ARROW	36	EA
70 71	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SPECIAL MESSAGE (ONLY) TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SPECIAL MESSAGE (YIELD)	5	EA EA
72	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SPECIAL MESSAGE (YIELD) TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SPECIAL MESSAGE (BICYCLE)	1	EA
73	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SHARK TEETH	70	LF
74	TEMPORARY PAINTED PAVEMENT MARKINGS, REMOVE THERMORI ASTIC STANDARD, WHITE SOLID, 6"	1.57	SF
75 76	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6" THERMOPLASTIC, STANDARD, WHITE, SOLID, 8"	0.053	GN GN
77	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	1,404	LI
78	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18"	246	LF
79 80	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" THERMOPLASTIC, STANDARD, WHITE, SKIP, 6"(2'/4')	810 0.078	LF GN
81	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6"(6'/10')	0.0136	GN
82	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6"(10'/30')	0.7077	GN
83 84	THERMOPLASTIC, STANDARD, WHITE, SKIP, 12"(3'/3') THERMOPLASTIC, STANDARD, YELLOW, SKIP, 6"(6'/10')	0.055 0.045	GN GN
84	THERMOPLASTIC, STANDARD, YELLOW, SKIP, 6"(6'/10') THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	0.045	GM
86	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18"	54	LF
87	THERMOPLASTIC, STANDARD, WHITE, SPECIAL MESSAGE (ONLY)	2	EA
88 89	THERMOPLASTIC, STANDARD, WHITE, SPECIAL MESSAGE (YIELD) THERMOPLASTIC STANDARD, WHITE SPECIAL MESSAGE (BICYCLE)	5	EA
90	THERMOPLASTIC, STANDARD, WHITE, SPECIAL MESSAGE (BICYCLE) THERMOPLASTIC, STANDARD, WHITE, SHARK TEETH	70	LF
91	THERMOPLASTIC, STANDARD, WHITE, TURN ARROW	36	EA
92	THERMOPLASTIC, STANDARD, YELLOW, BULLNOSE	37	SF
93	THERMOPLASTIC, STANDARD, WHITE, BULLNOSE THERMOPLASTIC, STANDARD, YIELD LINE, WHITE, SOLID	26 75	SF LF
		543	SF
95	DETECTABLE WARNINGS (COLOR YELLOW, EMBEDDED TYPE)	543	21.

GOVERNING STANDARDS AND SPECIFICATIONS

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2019-2020 STANDARD PLANS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, AND 2020 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS.

For Standard Plans click on the "Standard Plans" link at the following website: http://www.fdot.gov/design/StandardPlans/2019/default.shtm#Bridges For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following website: http://www.fdot.gov/design/standardplans/current/default.shtm

PLANS PREPARED BY HIGHLANDS COUNTY ENGINEERING DEPARTMENT

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			
12/12/18	BWD	REVISED QUANTITIES PHASE II-B	4/1/19	DMN	REVISED QUANTITIES PHASE II-B			
1/18/19	BWD	REVISED QUANTITIES PHASE II-B	10/1/19	DMN	REVISED QUANTITIES PHASE II-B			
2/7/19	BWD	ADDED BIDIRCTIONAL CLEAR/RED R.P.M.	10/29/19	DMN	REVISED FPID NUMBER & QUANTITIES			
2/21/19	BWD	REVISED QUANTITIES PHASE II-B						

: \PROJECTS\Sebring Parkway Phase II\DWG_Sebring Parkway Phase II A and B\Phase II B only\Phase II b Cover Notes & Details Sebring Parkway.dwg, Cover, Nietubicz, Douglas Colors As Black Except Gray Colors.ctb

FOR BIDDING

STATUS

DESIGNED BY:
J.D. LANGFORD, JR., P.E.

DRAWN BY:
BRUCE DOREY

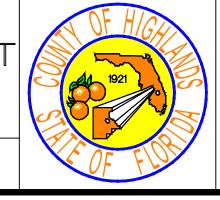
CHECKED BY:
J.D. LANGFORD, JR., P.E.

IN CHARGE:
J.D. LANGFORD, JR., P.E.

SEBRING, FLORIDA 33870

APPROVED BY: JAMES D. LANGFORD, JR., P.E.

FLORIDA REGISTRATION NO.: 78402

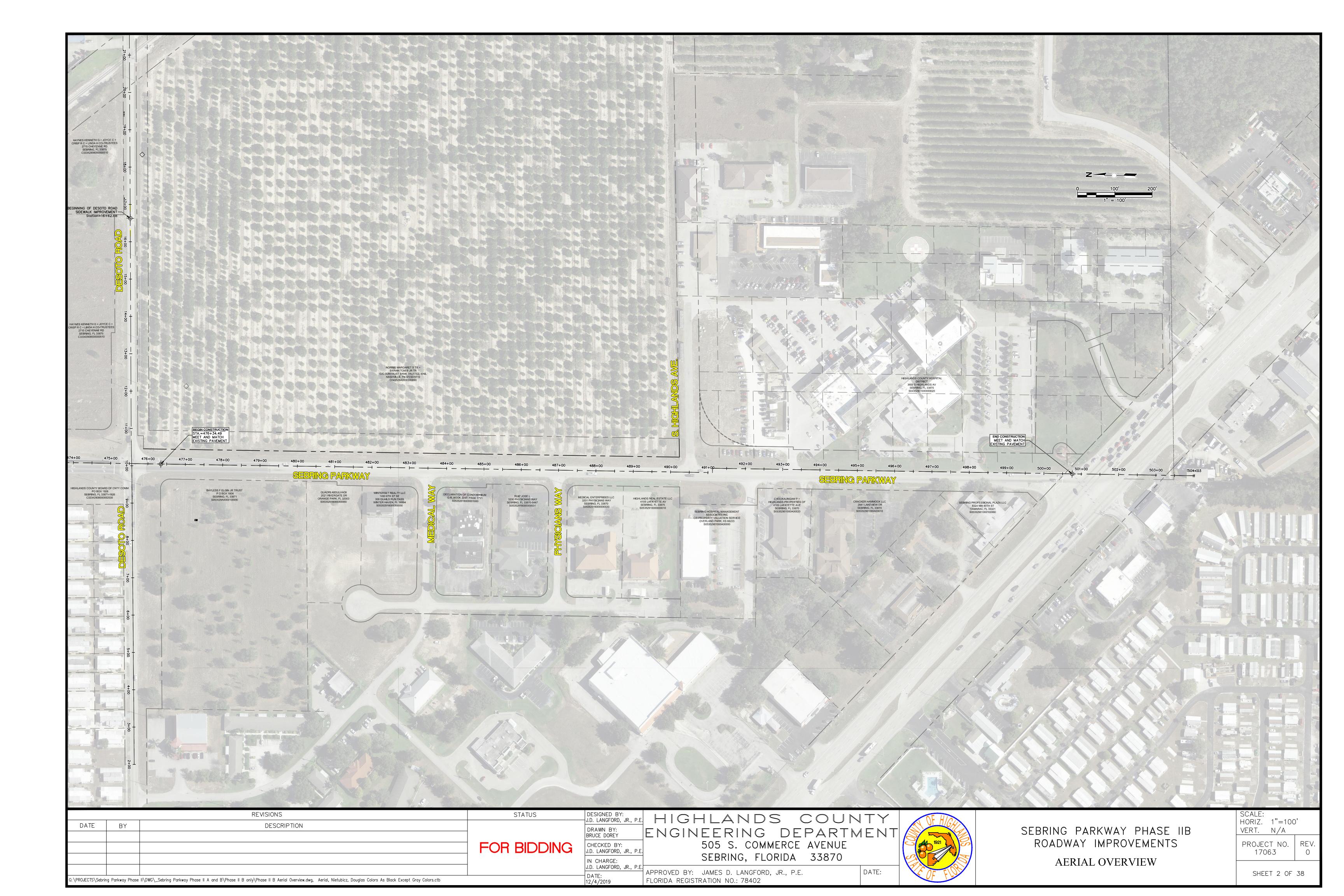


SEBRING PARKWAY PHASE IIB ROADWAY IMPROVEMENTS

COVER SHEET & QUANTITIES

SCALE: HORIZ. N/A VERT. N/A	
PROJECT NO. 17063	REV 0

SHEET 1 OF 38



GENERAL NOTES AND SPECIFICATIONS

GENERAL CONSTRUCTION NOTES The Contractor shall be responsible for furnishing all material and labor to construct the facility as shown and described in the

- construction documents. 2. The Contractor shall be responsible for obtaining all required construction bonds prior to construction
- i. The Contractor shall have available at the job site at all times one copy of the construction documents including plans, specifications, and special conditions and copies of any required construction permits. 4. Any discrepancies on the drawings shall be immediately brought to the attention of the Highlands County Project Manager before
- commencing work. No field changes or deviations from design are to be made without prior approval of the Highlands County Project 5. Contractor shall submit a construction schedule MOT Plan, Lines of Authority, Subcontractors List to the Highlands County Project Manager
- prior to commencement of construction. 6. Contractor shall coordinate proposed driveway construction with affected property owners.
- Contractor shall repair and/or replace all disturbed irrigation. Contractor shall coordinate this activity with affected property owners.
- EROSION CONTROL The Contractor shall grade the site to the elevations indicated and shall regrade washouts where they occur after every rainfall event until sod is well established or adequate stabilization occurs.
- 2. Contractor shall denote on plan the temporary parking and storage area which shall also be used as the equipment maintenance and cleaning area, employee parking area, and area for locating toilet facilities. Contractor shall be responsible for all coordination and expenses related to securing the area stated in the said area.
- i. All wash water (concrete trucks, vehicle cleaning, equipment cleaning, etc.) shall be detained and properly treated and disposed. 4. The Contractor shall be responsible for the control of dust and dirt rising and scattering in the air during construction and shall provide water sprinkling or other suitable methods of control. The Contractor shall comply with all governing regulations pertaining to environmental
- The use of motor oils and other petroleum based or toxic liquids for dust suppression operations is prohibited. 6. Sod must be installed and maintained on exposed slopes within 48 hours of completing final grading, and at any other time as necessary,
- to prevent erosion, sedimentation or turbid discharges. 7. Stabilization practices should be initiated as soon as practical, but in no case more than 7 days where construction has temporarily
- 8. All materials spilled, dropped, washed or tracked from vehicles onto roadways or into storm drains must be removed as soon as possible.
- 9. On-site & off-site soil stockpile and borrow areas shall be protected from erosion and sedimentation through implementation of best 10. Slopes shall be left in a roughened condition during the grading phase to reduce runoff velocities and erosion.
- 11. Due to grade changes during the development of the project, the Contractor shall be responsible for adjusting the erosion control measures (silt fence, etc.) to prevent erosion.
- 12. All construction shall be stabilized at the end of each working day, this includes back filling of trenches for utility construction and placement of gravel or bituminous paving for road construction.
- 13. The contractor shall install sediment barrier as shown on plans within the perimeter of the project site. SURVEY AND STAKEOUT
- 1. Existing section corners and 1/4 Section corners, and other land markers or monuments located within proposed construction are to be referenced prior to construction and reset after construction. The Contractor shall have this work done by a registered Professional Land Surveyor at the Contractor's expense (Florida Registration). Any public land corner within the limits of construction is to be protected. If a corner monument is in danger of being destroyed and has not been properly referenced, the Contractor should notify the County Surveyor, without delay, by telephone (863-402-6877).
- Benchmark data is Local Datum. See Cover Sheet for NAVD 88 conversion. Any NGVD-29 monument within the limits of construction is to be protected. If in danger of damage, the Contractor should notify: Geodetic Information Center, Attn: Mark Maintenance Section N/CG-162, 6001 Executive Boulevard, Rockville, Maryland 20852. Telephone
- (301) 443-8319. 4. Grades shown are the finished grades, unless otherwise indicated.

to limit the utility companies which the contractor may wish to notify.

- The Contractor shall remove survey stakes and erosion control items prior to the completion of the contract. 6. The Contractor shall be responsible for submitting to the Highlands County Project Manager a certified record survey signed and sealed by
- a Professional Land Surveyor registered in the state of Florida depicting the actual field location of all constructed improvements that are required by the jurisdictional agencies for the certification process. All survey costs will be the Contractor's responsibility.
- <u>UTILITIES</u> 1. It is the Contractor's responsibility to contact the various utility companies which may have buried or aerial utilities within or near the construction area before commencing work. The Contractor shall provide 48 hours minimum notice to all utility companies in advance of any excavation involving their utilities so that a company representative can be present. A list of the utility companies which the Contractor MUST call before commencing work is provided in these construction plans. This list serves as a guide only and is not intended
- 2. Existing utilities shown are located according to the information available to the Engineer at the time of the topographic survey and have not been independently verified by the Owner or the Engineer. Guarantee is not made that all existing underground utilities are shown or that the location of those shown are entirely accurate. Finding the actual location of any existing utilities is the Contractor's responsibility and shall be done before he/she commences any work in the vicinity. Furthermore, the Contractor shall be fully responsible for any and all damages due to the Contractor's failure to exactly locate and preserve any and all underground utilities. The Owner or Engineer will assume no liability for any damages sustained or cost incurred because of the operations in the vicinity of existing utilities or structures, nor for temporary bracing and shoring of same. If it is necessary to shore, brace, swing or relocate a utility, the utility company or department affected shall be contacted and their permission obtained regarding the method to use for such work. In addition, the Contractor shall be responsible to verify if "other" utilities (Not shown in the plans) exist within the area of construction. Should there be utility conflicts, The Contractor shall inform the Engineer and notify the respective utility owners to resolve utility conflicts and utility adjustments as required.
- The Contractor is to use caution when working in or around areas of overhead transmission lines or underground utilities. 4. The Contractor is responsible for the protection of all utilities to remain in place.
- 5. The Contractor shall call 811 for field locations no less than 48 hours in advance of digging near underground utilities. 6. Prior to commencement of any excavation, the contractor shall comply with Florida Statute 553.851 for the protection of underground gas
- 7. All valves within area of construction or disturbed by construction to be adjusted to finished grade. Replace valve collars and boxes as necessary. CLEARING AND GRUBBING
- 1. Contractor shall clear and grub all areas unless otherwise indicated, removing trees, stumps, roots, muck, existing pavement, existing concrete and all other deleterious material.
- PAVING, GRADING AND DRAINAGE 1. Where new pavements meets the existing pavement, the Contractor shall saw cut the existing pavement a minimum 2" deep for a smooth and straight joint and match the existing pavement elevation with the proposed pavement unless otherwise indicated.
- All cut or fill slopes shall be 4 (horizontal): 1 (vertical) or flatter unless otherwise shown. Existing drainage structures within construction limits shall remain unless noted otherwise.
- 4. Contractor is responsible for repairing any existing concrete or asphalt areas that are disturbed during construction.
- Stop bars shall be 24" white stripes. Temporary pavement markings shall be provided by the end of each day's operation.
- 3. All pavement markings and signage shall be installed in accordance with the Manual on Uniform Traffic Control Devices (MUTCD), Latest
- Temporary pavement markings and thermoplastic pavement markings shall be installed via truck mounted spray truck.
- Retro-reflective material shall be 3M brand Diamond Grade material. 6. Sign substrate shall be aluminum.

of work or materials to conform with the plans and specifications.

- 7. Traffic signs shall be mounted on 3" diameter post with "Z" bar brackets.
- 8. Sign post underground support shall be 6" aluminum "Z" bar brackets (no concrete). 9. All removed sign assemblies shall be brought by The Contractor to the Highlands County Traffic Operations Office located at 4300 George
- Blvd., Sebring, FL. 33875. 10. Contractor shall coordinate with Highlands County Traffic Operations to obtain a detailed template for all proposed street signs, prior to ordering said street signs.
- 1. All disturbed areas within the project limits shall be sodded with "like kind" sod. The areas on which sod is to be placed shall be thoroughly wetted prior to and after placement is complete. No addition of top soil material is required prior to placement unless otherwise
- directed by the Engineer 2. All sod materials shall be subject to inspection by the Highlands County Project Manager prior to placement. Any sod with noxious weeds
- and grasses including tropical soda apple, shall be rejected for use on the spot. 3. All areas within the project site shall be sodded unless otherwise directed in these construction plans.
- . Contractor shall guarantee a year on the sod placed. 5. Contractor shall provide irrigation to newly installed sod per FDOT Spec. 570 & 983 Latest Edition.
- 1. Contractor shall perform, at his own expense, any and all tests required by the specifications and/or any agency having jurisdiction. A copy
- of the test results shall be provided to the Highlands County Project Manager. 2. The Highlands County Project Manager shall inspect all construction and is authorized to call to the attention of the Contractor any failure
- 3. All copies of compaction, concrete and other required test results are to be sent to the Highlands County Project Manager directly from the testing agency.
- 4. Contractor shall perform Pavement Smoothness Testing: The Contractor shall furnish a 15 foot manual and a 15 foot rolling straightedge and construct a smooth pavement meeting the requirements of the Florida Method of Test for Measurement of Pavement Smoothness with the 15-Foot Rolling and Manual Straightedges (Designation: FM 5-509, May 16, 2002, Revised: March 17, 2008).

Straightedge Testing: The Contractor shall test the final (top) layer of all pavement where the width is constant using a rolling straightedge either behind the final roller of the paving train or as a separate operation. The Contractor shall correct all deficiencies in excess of 3/16 inch by removing and replacing the full depth of the layer, extending a minimum of 50 feet on both sides of the defective area for the full width of the paving lane, at no additional cost, unless waived by the County Engineer. The Contractor shall retest all corrected areas. The Contractor shall test all pavement lanes and document all deficiencies on a form approved by the Highlands County Project Manager. The Contractor shall notify the Highlands County Project Manager of the location and time of all straightedge testing a minimum of 48 hours before beginning testing.

Straightedge Exceptions: Straightedge testing will not be required in the following areas: shoulders, intersections, tapers, crossovers, sidewalks, bicycle/shared use paths, parking lots and similar areas, or in the following areas when they are less than 250 feet in length: turn lanes, acceleration/deceleration lanes and side streets. In the event the Highlands County Project Manager identifies a surface irregularity in the above areas that is determined to be objectionable, the Contractor shall straightedge and address all deficiencies in excess of 3/8 inch in accordance by removing and replacing the full depth of the layer, extending a minimum of 50 feet on both sides of the defective area for the full width of the paving lane, at no additional cost.

ASPHALT

Asphalt Mix Temperature Master Range Tolerance	
LOCATION	ACCEPTABLE TEMPERATURE TOLERANCE
Plant	Mixing Temperature: 305° F +/- 30° F
Roadway/Site	Compaction Temperature: 305° F +/- 30° F

1. The asphalt mix shall be transported by CONTRACTOR in truck bodies previously cleaned of all foreign material and of tight construction that prevents the loss of material and the excessive loss of heat. After cleaning, CONTRACTOR shall thinly coat the inside surface of the truck bodies with soapy water or an asphalt release agent as needed to prevent the asphalt mixture from adhering to the beds. CONTRACTOR shall not allow excess liquid to pond in the truck body. CONTRACTOR shall not use a release agent that will contaminate, degrade or alter the characteristics of the asphalt mix or is hazardous or detrimental to the environment. Petroleum derivatives (such as diesel fuel), solvents, and any product that dissolves asphalt are prohibited. CONTRACTOR shall provide each truck with a tarpaulin or other waterproof cover mounted in such a manner that it can cover the entire load when required. When in place, CONTRACTOR shall overlap the waterproof cover on all sides so that it can be tied down. CONTRACTOR shall cover each load with a tarpaulin or waterproof cover during cool and cloudy weather and at any time it appears rain is

ASPHALT WARRANTY

- 1. CONTRACTOR shall be responsible for performance of the asphalt pavement for a period of two (2) years after the date the final payment is made including continued responsibility for performing all remedial work associated with pavement distresses exceeding threshold values as
- 2. OWNER shall monitor the pavement for distresses and may require remedial action at any time within the two years period as specified above. OWNER shall conduct a Pavement Condition Survey (survey) of the asphalt following the final acceptance of the Work and at intermediate times throughout the warranty period with findings provided when considered by OWNER to be the obligation of CONTRACTOR.
- 3. The final survey, if determined by the PROJECT MANAGER to be necessary, shall be conducted before the end of the warranty period with results provided to CONTRACTOR for those conditions exceeding contract threshold values requiring remedial action that OWNER believes to be an obligation of CONTRACTOR. OWNER shall be responsible for all costs associated with the surveys.
- 4. All remedial action shall be completed by CONTRACTOR within (30) thirty calendar days after OWNER notifies CONTRACTOR of the condition requiring remedial work, provided that OWNER notified CONTRACTOR of the condition and need for remedial action prior to the end of the
- 5. If the survey findings, intermediate or final, are to be disputed by CONTRACTOR, written notification shall be provided to the PROJECT MANAGER within 30 calendar days of the date of receipt of the information from OWNER.
- 6. During the warranty period, CONTRACTOR may monitor the project using nondestructive methods and may participate with OWNER in the Pavement Condition Surveys upon request. CONTRACTOR shall not conduct any coring, milling or other destructive methods without prior approval by the PROJECT MANAGER.

Pavement Roadway and Site								
TYPE OF DISTRESS	MEASUREMENT	THRESHOLD VALUES	REMEDIAL WORK					
	1	Depth > 0.4 mch	Remove and replace 1.5 inch the full lane width for the area plus 50 feet on each end.					
Settlement / Depression	Depth of settlement / depression to be determined by a 6 foot manual straightedge.	Depth ≥ 1/2 inch	Propose the method of correction to the PROJECT MANAGER for approval prior to beginning remedial work.					
l Cracking	l = = = = = = = = = = = = = = = = = = =		Remove and replace the distressed length to the full depth of all layer, and to the full lane width.					
Raveling / Surface Deterioration	IVisual Inspection	,	Remove and replace the distressed area(s) to the full distressed depth and the full lane width for the full distressed length plus 50' on each end.					

	SEBRING PARKWAY, PHASE IIB IMPROVEME CONTRACTOR REQUIRED QUALITY CONTRO	
-		
	Roadway Construction: TYPE B STABILIZATION (LBR 40) TESTING I	ACCEPTANCE
TEST NAME	QUALITY CONTROL	Minimum density of 98% of the Modified Proctor maximum density as
DENSITY	ONE (1) PER LIFT, FOURTEEN (14) TOTAL	determined by FM 1-T 180, Method D
THICKNESS	ONE (1) PER LIFT, FOURTEEN (14) TOTAL	No undertolerance of mixing depth is allowed. Do not exceed individual plan depth thickness by more than 2".
LBR	ONE (1) PER MATERIAL TYPE	Undertolerence = 5.0
tabilization Constrution Method:	For mixing exist. Sub-base and base material provide heavy-duty rotary	tiller or other equipmet approved by the Engineer as equally effective for this work.
	Roadway Construction: OPTIONAL BASE GROUP 9 TESTING RE	QUIREMENTS (10" COMPACTED THICKNESS)
TEST NAME	QUALITY CONTROL	ACCEPTANCE
DENSITY	ONE (1) PER LIFT, FOURTEEN (14) TOTAL	Minimum density of 98% of the Modified Proctor maximum density as determined by FM 1-T 180, Method D
THICKNESS	ONE (1) PER LIFT, FOURTEEN (14) TOTAL	Compacted lift thickness = 10", tolerance = 0.5"
LBR	ONE (1) PER MATERIAL TYPE	No Undertolerence allowed.
	Roadway Construction: ASPHALT TESTING REQUIREME	·
TEST NAME	QUALITY CONTROL	ACCEPTANCE
THICKNESS	ONE (1) PER LIFT, FOURTEEN (14) TOTAL	Compacted lift thickness = 1.5", Tolerance = 0.3"
Asphalt Construction Method: As	phalt shall be placed in two (2) lifts with a compacted lift thickness of 1.5	5".
	Commercial Driveways: OPTIONAL BASE GROUP 9 TESTING RE	QUIREMENTS (10" COMPACTED THICKNESS)
TEST NAME	QUALITY CONTROL	ACCEPTANCE
DENSITY	ONE (1) PER LIFT PER DRIVEWAY, SIXTEEN (16) TOTAL	Minimum density of 95% of the Modified Proctor maximum density as determined by FM 1-T 180, Method D
THICKNESS	ONE (1) PER LIFT PER DRIVEWAY, SIXTEEN (16) TOTAL	Compacted lift thickness = 5", tolerance = 0.5"
	ion Method: Construct the base in two (2) equal lifts with a compacted li	ft thickness of ten (10) inches.
Optional Base Group 1 Construct		
Optional Base Group 1 Construct	Residential Driveways: OPTIONAL BASE GROUP 4 TESTING RE	QUIREMENTS (6" COMPACTED THICKNESS)
Optional Base Group 1 Construct TEST NAME	Residential Driveways: OPTIONAL BASE GROUP 4 TESTING REQUALITY CONTROL	ACCEPTANCE
		I

		LINE LEGEND	
	————— ОНЖ ————	—————ОН W -————	OVERHEAD WIRES
BE	BE	BE	BURIED ELECTRIC
			CONDUIT & CASEMENTS
BF0	BFO		BURIED FIBER OPTIC
вт		BT	BURIED TELEPHONE
FM		FM	FORCE MAIN
			GAS LINE
			WATER LINE
			CABLE TELEVISION
XX	X	-XXX	WIRE FENCE
		· · · · · · · · · · · · · · · · · · ·	CHAIN LINK FENCE
	0-0-0		WOOD FENCE
			EXISTING TOP OF BANK
		· ·	EXISTING TOE OF SLOPE
		· ·	EXISTING EDGE OF SHELL ROCK
			EXISTING RIGHT OF WAY LINE
			PROPOSED RIGHT OF WAY LINE
			EXISTING GRADE AT R/W RT (PROFILE VIEW)
			EXISTING GRADE AT R/W LT (PROFILE VIEW)
			EXISTING GRADE AT CONST BL (PROFILE VIEW)
	150	1:50—	EXISTING CONTOURS WITH ELEVATIONS
	149	149	PROPOSED CONTOURS WITH ELEVATIONS
			EXISTING GUARDRAIL
			EXISTING EASEMENT
·	· · — · · —	· · · — · · —	GOVERNMENT FRACTIONAL LINES
			LOT LINES
			PROPOSED SOD SHOULDER LINE
			PROPOSED BACK OF DITCH
			PROFILE GRADE LINE (PROFILE VIEW)
			PROPOSED CURVE RETURN
			PROPOSED CENTERLINE OR BASELINE
L			
OVA 4DOL 1 F	_ _		

			PROPOSED CEN	IEKLI
SY	MBOL LEGEND		ABBREVIATIONS	
◆	BENCHMARK	A.D.	ALGEBRAIC DIFFERENCE	
·	CONCRETE MONUMENT	BFS	BEGIN FULL SUPER	
0	IRON ROD OR IRON PIPE	BL	BASELINE	
(a)	NAIL AND DISK	BNC	BEGIN NORMAL CROWN	
\Diamond	CLEANOUT	CMP	CORRUGATED METAL PIPE	
EM	ELECTRIC METER	CONC.	CONCRETE	
₽ E	FLAG ELECTRIC	CONST.	CONSTRUCTION	
₽FO	FLAG FIBER OPTIC	EFS	END FULL SUPER	
₽ °	FLAG GAS	ELEV	ELEVATION	
P ss	FLAG SEWER	ENC	END NORMAL CROWN	
P	FLAG TELEPHONE	EXIST.	EXISTING	
P *	FLAG WATER	HDPE	HIGH DENSITY POLYETHYLENE PIPE	
#	FIRE HYDRANT	LC	LONG CHORD	
×	GAS VALVE	LT	LEFT	
EB	ELECTRIC BOX	MES	MITERED END SECTION	
TB	TELEPHONE BOX	PAVT	PAVEMENT	
₩	TELEVISION BOX	PC	POINT OF CURVATURE	
TS	TRAFFIC SIGNAL BOX	PGL	PROFILE GRADE LINE	
/xw ∖	PEDESTRIAN CROSSWALK	PROP.	PROPOSED	
Ф	LIGHT POLE	PT	POINT OF TANGENCY	
(D)	MANHOLE DRAINAGE	PVC	POINT OF VERTICAL CURVE	
₩	MANHOLE OTHER	PVI	POINT OF VERTICAL INTERSECTION	
S	MANHOLE SEWER	PVT	POINT OF VERTICAL TANGENCY	
①	MANHOLE TELEPHONE	R/W	RIGHT OF WAY	
	MONITORING WELL	RC	REVERSE CROWN	
д	UTILITY POLE	RCP	REINFORCED CONCRETE PIPE	
0	WATER METER	RT	RIGHT	
₩	WATER VALVE	STA	STATION	
@	WELL	TYP	TYPICAL	
+0.0	EXISTING GRADE SHOT			ı
+0.00	PROPOSED ELEVATIONS			
0	BOLLARD			
	MAIL BOX	_		ı
-0-	SIGN		PRAINAGE LEGEND	
\triangleright	MITERED END SECTION		EXISTING PIPES & STRUCTURES	

ion Full Description
BM
BM
BM
BM

| □====□ | PROPOSED PIPES & STRUCTURE

		REVISIONS	
DATE	BY	DESCRIPTION	
10/29/19	DMN	REMOVE ALTERNATE (DEDUCTIVE) ASPHALT NOTE	

FOR BIDDING

DATE:

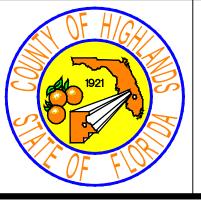
12/4/2019

STATUS

HIGHLANDS COUNTY J.D. LANGFORD, JR., ENGINEERING DEPARTMENT DRAWN BY: BRUCE DOREY 505 S. COMMERCE AVENUE CHECKED BY: J.D. LANGFORD, JR., P.E. SEBRING, FLORIDA 33870 IN CHARGE: J.D. LANGFORD, JR., P.E

APPROVED BY: JAMES D. LANGFORD, JR., P.E. FLORIDA REGISTRATION NO.: 78402

DATE:



SEBRING PARKWAY PHASE IIB ROADWAY IMPROVEMENTS GENERAL NOTES & LEGEND

HORIZ. N/A VERT. N/A PROJECT NO. 17063

SHEET 3 OF 38

TREE LEGEND

CEDAR TREE

CITRUS TREE

CYPRESS TREE

MAPLE TREE

OAK TREE

PALM TREE

TREE

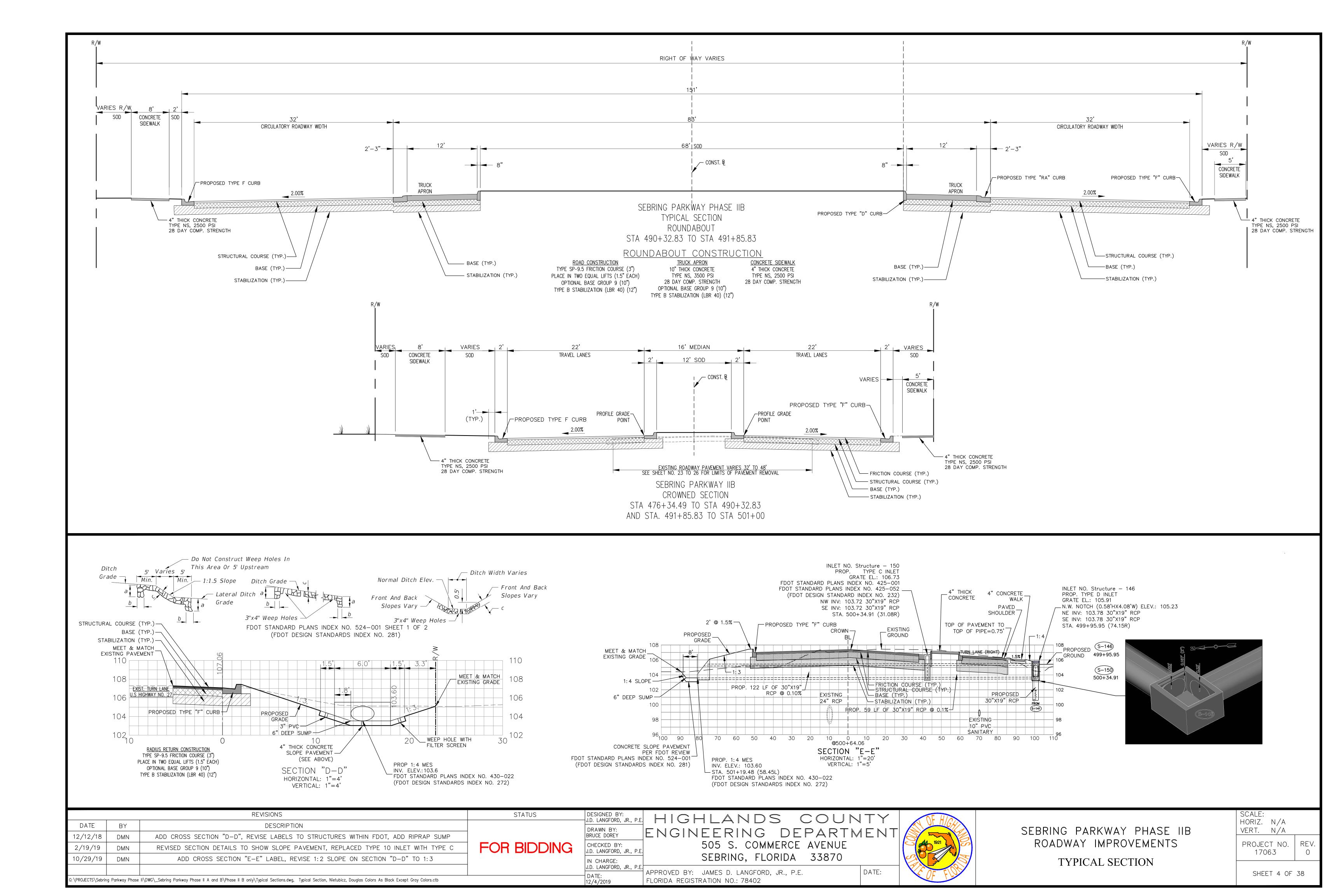
TREE A TREE B

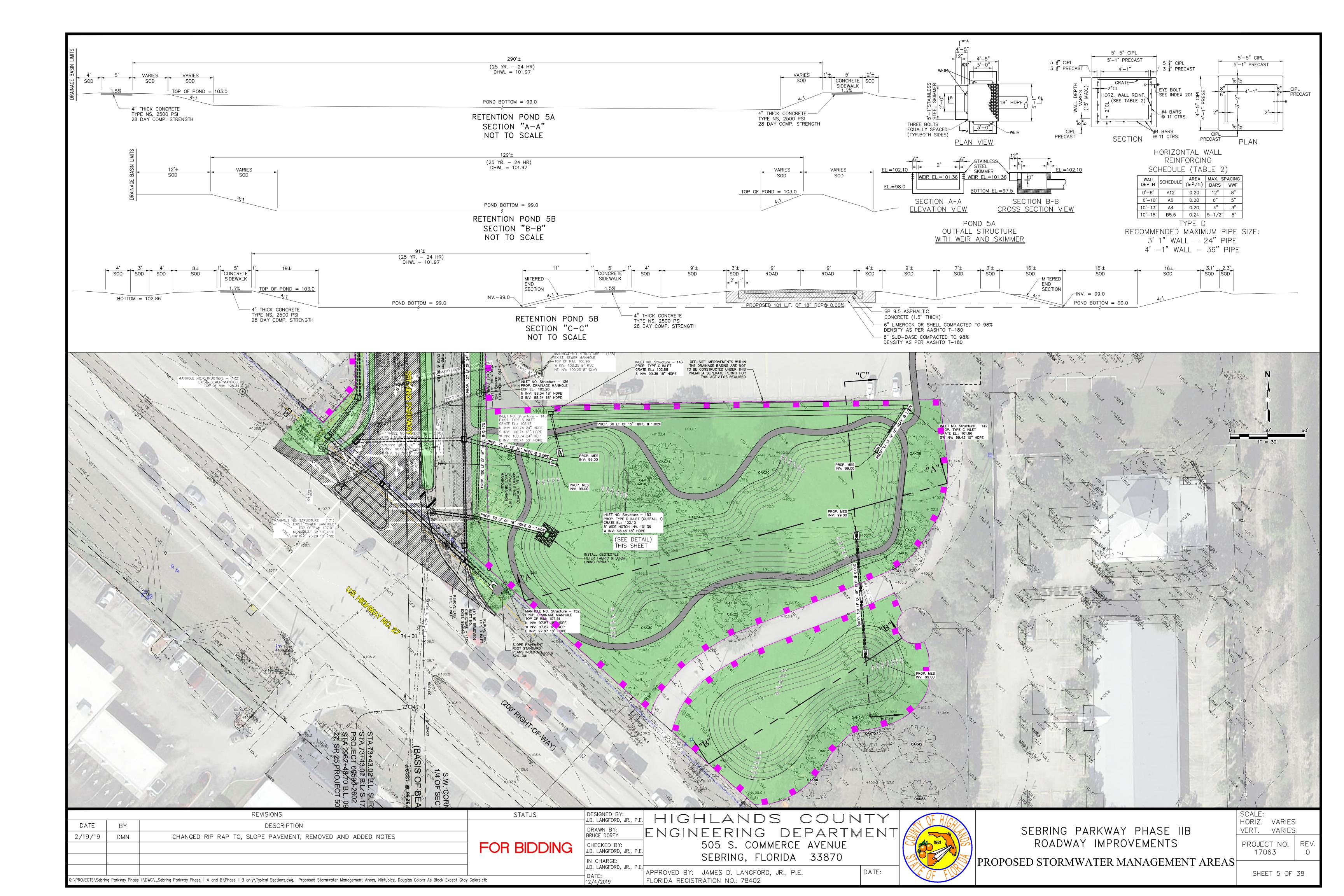
TREE C

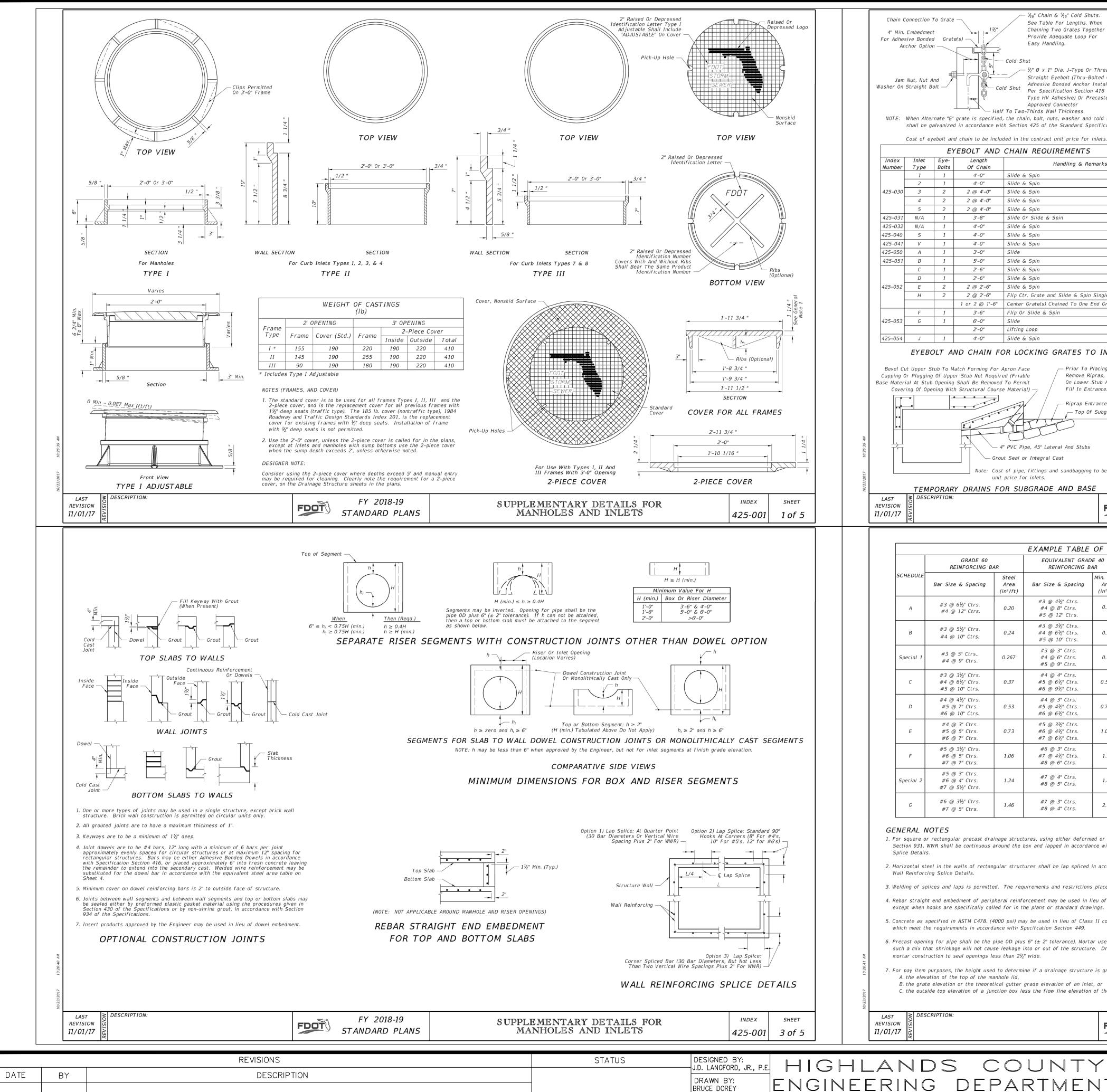
TREE D

MAGNOLIA TREE

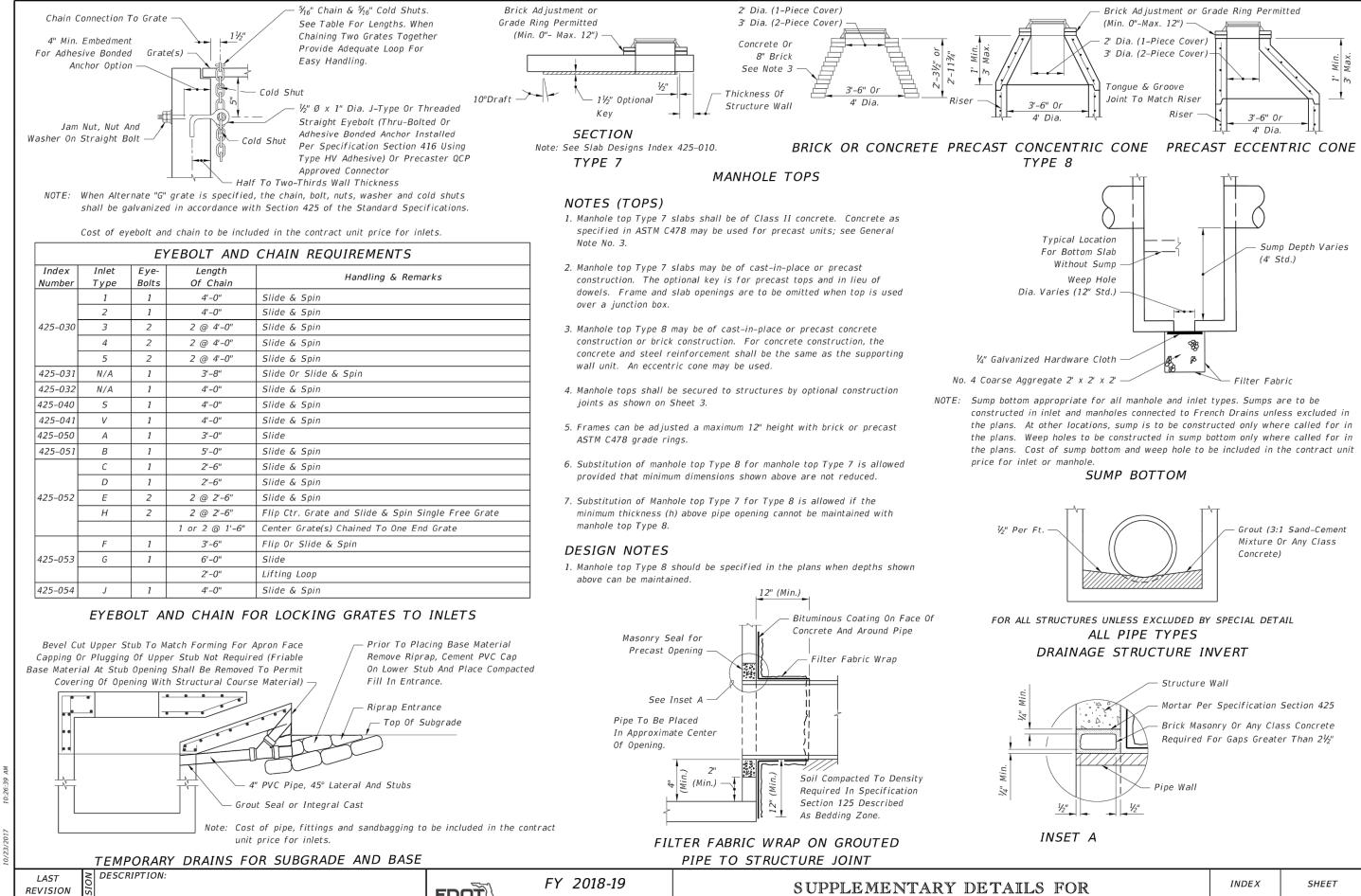
: \PROJECTS\Sebring Parkway Phase II\DWG_Sebring Parkway Phase II A and B\Phase II B only\Phase II b Cover Notes & Details Sebring Parkway.dwg, Notes Legend Testing, Nietubicz, Douglas Colors As Black Except Gray Colors.ctb







:\PROJECTS\Sebring Parkway Phase II\DWG_Sebring Parkway Phase II A and B\Phase II B only\Phase II b Cover Notes & Details Sebring Parkway.dwg, SPII—DD02, Nietubicz, Douglas Colors As Black Except Gray Colors.ctb



			ENAMPLE TABLE	OF EQU	IVALENT STEEL A	INEA .		
	GRADE 60 REINFORCING BAR		EQUIVALENT GRADE 40 REINFORCING BAR		EQUIVALENT 65 KSI SMOOTH WELDED WIRE REINFORCEMENT		EQUIVALENT 70 KSI DEFORMED WELDED WIRE REINFORCEMENT	
SCHEDULE	Bar Size & Spacing	Steel Area (in²/ft)	Bar Size & Spacing	Min. Steel Area (in²/ft)	Style Designation	Min. Steel Area (in²/ft)	Style Designation	Min. Stee Area (in²/ft)
А	#3 @ 6½" Ctrs. #4 @ 12" Ctrs.	0.20	#3 @ 4½" Ctrs. #4 @ 8" Ctrs. #5 @ 12" Ctrs.	0.30	3"x3"-W4.6xW4.6 4"x4"-W6.2xW6.2 6"x6"-W9.2xW9.2	0.1846	3"x3"-D4.3xD4.3 4"x4"-D5.7xD5.7 6"x6"-D8.6xD8.6	0.1714
В	#3 @ 5½" Ctrs. #4 @ 10" Ctrs.	0.24	#3 @ 3½" Ctrs. #4 @ 6½" Ctrs. #5 @ 10" Ctrs.	0.36	3"x3"-W5.5xW5.5 4"x4"-W7.4xW7.4 6"x6"-W11.1xW11.1	0.2215	3"x3"-D5.1xD5.1 4"x4"-D6.9xD6.9 6"x6"-D10.3xD10.3	0.2057
Special 1	#3 @ 5" Ctrs #4 @ 9" Ctrs.	0.267	#3 @ 3" Ctrs. #4 @ 6" Ctrs. #5 @ 9" Ctrs.	0.40	3"x3"-W6.2xW6.2 4"x4"-W8.2xW8.2 6"x6"-W12.3xW12.3	0.2465	3"x3"-D5.7xD5.7 4"x4"-D7.6xD7.6 6"x6"-D11.4xD11.4	0.2289
С	#3 @ 3½" Ctrs. #4 @ 6½" Ctrs. #5 @ 10" Ctrs.	0.37	#4 @ 4" Ctrs. #5 @ 6½" Ctrs. #6 @ 9½" Ctrs.	0.555	3"x3"-W8.5xW8.5 4"x4"-W11.4xW11.4 6"x6"-W17.1xW17.1	0.3415	3"x3"-D7.9xD7.9 4"x4"-D10.6xD10.6 6"x6"-D15.9xD15.9	0.3171
D	#4 @ 4½" Ctrs. #5 @ 7" Ctrs. #6 @ 10" Ctrs.	0.53	#4 @ 3" Ctrs. #5 @ 4½" Ctrs. #6 @ 6½" Ctrs.	0.795	3"x3"-W12.2xW12.2 4"x4"-W16.3xW16.3 6"x6"-W24.5xW24.5	0.4892	3"x3"-D11.4xD11.4 4"x4"-D15.1xD15.1 6"x6"-D22.7xD22.7	0.4543
Ε	#4 @ 3" Ctrs. #5 @ 5" Ctrs. #6 @ 7" Ctrs.	0.73	#5 @ 3½" Ctrs. #6 @ 4½" Ctrs. #7 @ 6½" Ctrs.	1.095	3"x3"-W16.8xW16.8 4"x4"-W22.5xW22.5 6"x6"-W33.7xW33.7	0.6738	3"x3"-D15.6xD15.6 4"x4"-D20.9xD20.9 6"x6"-D31.3xD31.3	0.6257
F	#5 @ 3½" Ctrs. #6 @ 5" Ctrs. #7 @ 7" Ctrs.	1.06	#6 @ 3" Ctrs. #7 @ 4½" Ctrs. #8 @ 6" Ctrs.	1.59	3"x3"-W24.5xW24.5 4"x4"-W32.6xW32.6 6"x6"-W48.9xW48.9	0.9785	3"x3"-D22.7xD22.7 4"x4"-D30.3xD30.3 6"x6"-D45.4xD45.4	0.9086
Special 2	#5 @ 3" Ctrs. #6 @ 4" Ctrs. #7 @ 5½" Ctrs.	1.24	#7 @ 4" Ctrs. #8 @ 5" Ctrs.	1.86	3"x3"-W28.6xW28.6 4"x4"-W38.2xW38.2 6"x6"-W57.2xW57.2	1.1446	3"x3"-D26.6xD26.6 4"x4"-D35.4xD35.4 6"x6"-D53.1xD53.1	1.0629
G	#6 @ 3½" Ctrs. #7 @ 5" Ctrs.	1.46	#7 @ 3" Ctrs. #8 @ 4" Ctrs.	2.19	3"x3"-W33.7xW33.7 4"x4"-W44.9xW44.9	1.3477	3"x3"-D31.3xD31.3 4"x4"-D41.7xD41.7	1.2514

STANDARD PLANS

GENERAL NOTES

DESCRIPTION:

505 S. COMMERCE AVENUE

SEBRING, FLORIDA 33870

APPROVED BY: JAMES D. LANGFORD, JR., P.E.

FLORIDA REGISTRATION NO.: 78402

BRUCE DOREY

IN CHARGE:

DATE:

12/4/2019

CHECKED BY:

J.D. LANGFORD, JR., P.E.

J.D. LANGFORD, JR., P.

FOR BIDDING

- 1. For square or rectangular precast drainage structures, using either deformed or smooth WWR meeting the requirements of Specification Section 931, WWR shall be continuous around the box and lapped in accordance with Option 1 or 3 as shown in the Wall Reinforcing
- 2. Horizontal steel in the walls of rectangular structures shall be lap spliced in accordance with Option 1, 2 or 3 as shown in the Wall Reinforcing Splice Details.
- 3. Welding of splices and laps is permitted. The requirements and restrictions placed on welding in AASHTO M259 shall apply
- 4. Rebar straight end embedment of peripheral reinforcement may be used in lieu of ACI standard hooks for top and bottom slabs except when hooks are specifically called for in the plans or standard drawings.
- 5. Concrete as specified in ASTM C478, (4000 psi) may be used in lieu of Class II concrete in precast items manufactured in plants which meet the requirements in accordance with Specification Section 449.
- 6. Precast opening for pipe shall be the pipe OD plus 6" (\pm 2" tolerance). Mortar used to seal the pipe into the opening will be of such a mix that shrinkage will not cause leakage into or out of the structure. Dry-pack mortar may be used in lieu of brick and
- mortar construction to seal openings less than 21/3" wide.
- 7. For pay item purposes, the height used to determine if a drainage structure is greater than 10 feet shall be computed using: A, the elevation of the top of the manhole lid.
- B. the grate elevation or the theoretical gutter grade elevation of an inlet, or C. the outside top elevation of a junction box less the flow line elevation of the lowest pipe or to top of sump floor.

DATE:

FY 2018-19 INDEX SHEET SUPPLEMENTARY DETAILS FOR STANDARD PLANS MANHOLES AND INLETS 425-001 4 of 5 SCALE:

> SEBRING PARKWAY PHASE IIB ROADWAY IMPROVEMENTS

State Drainage Engineer

MANHOLES AND INLETS

NOTES FOR PRECAST OPTIONS AND EQUIVALENT REINFORCEMENT SUBSTITUTION 1. Details for optional precast inlet construction up to depths of 15' are shown on the inlet indexes. 2. When precast units are used in conjunction with Alt. "B" Structure Bottoms, Index 425-010, the interior dimensions of an Alt. "B" Bottom can be adjusted to reflect these inlet interior

3. Concrete which meets the requirements of ASTM C478 or Class IV must be used for precast

4. Reinforcement can be either deformed bar reinforcement or welded wire reinforcement. Bar

of 70 ksi. The area of reinforcement required may be adjusted in accordance with the Equivalent Steel Area Table provided. For bars and spacings not given, the steel area required

When a reduced area of reinforcement is provided, any maximum bar spacing shown must also be reduced as determined by the following equations, unless otherwise shown:

When an increased area of reinforcing is provided, then the maximum bar spacing may be

Max. Bar Spacing Provided \leq Max. Bar Spacing Required $x \left(\frac{\text{Steel Area Provided}}{\text{Min. Steel Area Required}} \right)$

In no case will reinforcement with wires smaller than W3.1 or D4.0, or spacings greater than

8" be permitted. Bar reinforcement shall show the minimum yield designation grade mark or

of 18" for vertical bars and 12" for horizontal bars. Wires smaller than W3.1 or D4.0 are

either the number 60 or one (1) grade mark line to be acceptable at the higher value. Maximum bar spacing shall not be greater than two (2) times the slab thickness with a maximum spacing of 12" or three (3) times the wall thickness, with a maximum spacing

permitted in the walls of ASTM C 478 round structure bottoms and round risers.

5. Fiber-reinforced concrete may be substituted for conventional steel reinforcement in

accordance with the Structures Design Guidelines. Shop drawings corresponding to an

approved fiber-reinforced concrete mix design must be submitted for approval to the

Smooth Welded Wire Reinforcement Steel Area = $A_S65 = \frac{60}{50} \times A_S60$

Max. Smooth Welded Wire Spacing = Grade 60 Bar Spacing x 0.86

Max. Deformed Welded Wire Spacing = Grade 60 Bar Spacing x 0.74

increased by the squared ratio of increased steel area, but not to exceed 12":

Deformed Welded Wire Reinforcement Steel Area = $A_570 = \underline{60} \times A_560$

reinforcement other than 60 ksi may be used, however only two grades are recognized; Grade 40

and Grade 60. Smooth welded wire reinforcement, will be recognized as having a design strength

of 65 ksi and deformed welded wire reinforcement will be recognized as having a design strength

structures constructed with 6" wall or slab thickness.

can be determined by the following equations:

Grade 40 Steel Area = $A_S40 = 60 \times A_S60$

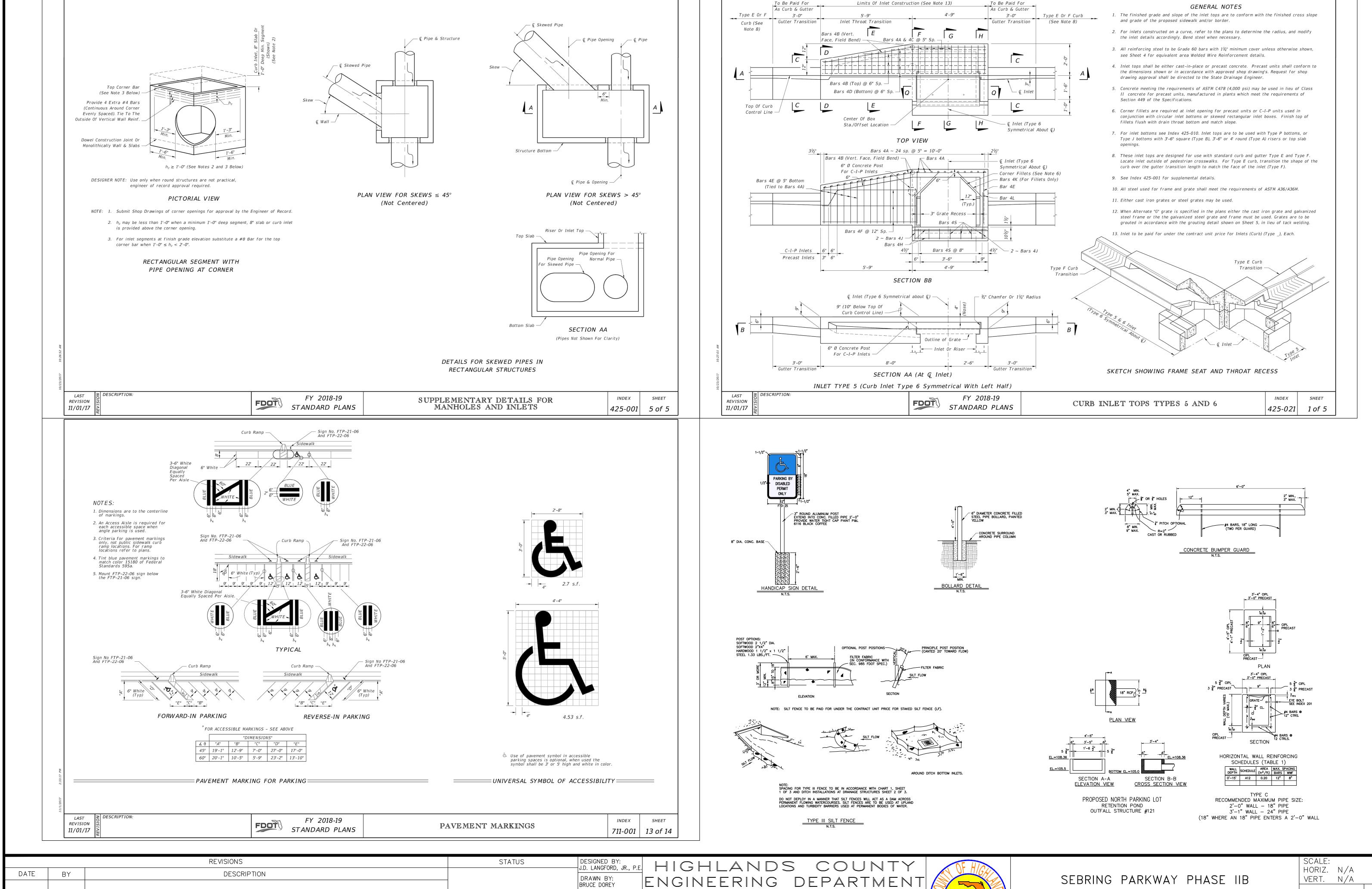
Max. Grade 40 Bar Spacing = Grade 60 Bar Spacing

HORIZ. N/A VERT. N/A PROJECT NO. 17063

425-001 2 of 5

DRAINAGE AND MISCELLANEOUS DETAILS

SHEET 6 OF 38



FOR BIDDING

: \PROJECTS\Sebring Parkway Phase II\DWG_Sebring Parkway Phase II A and B\Phase II B only\Phase II b Cover Notes & Details Sebring Parkway.dwg, SPII—DD03, Nietubicz, Douglas Colors As Black Except Gray Colors.ctb

CHECKED BY:

IN CHARGE:

DATE:

12/4/2019

J.D. LANGFORD, JR., P.E.

J.D. LANGFORD, JR., P.I

505 S. COMMERCE AVENUE

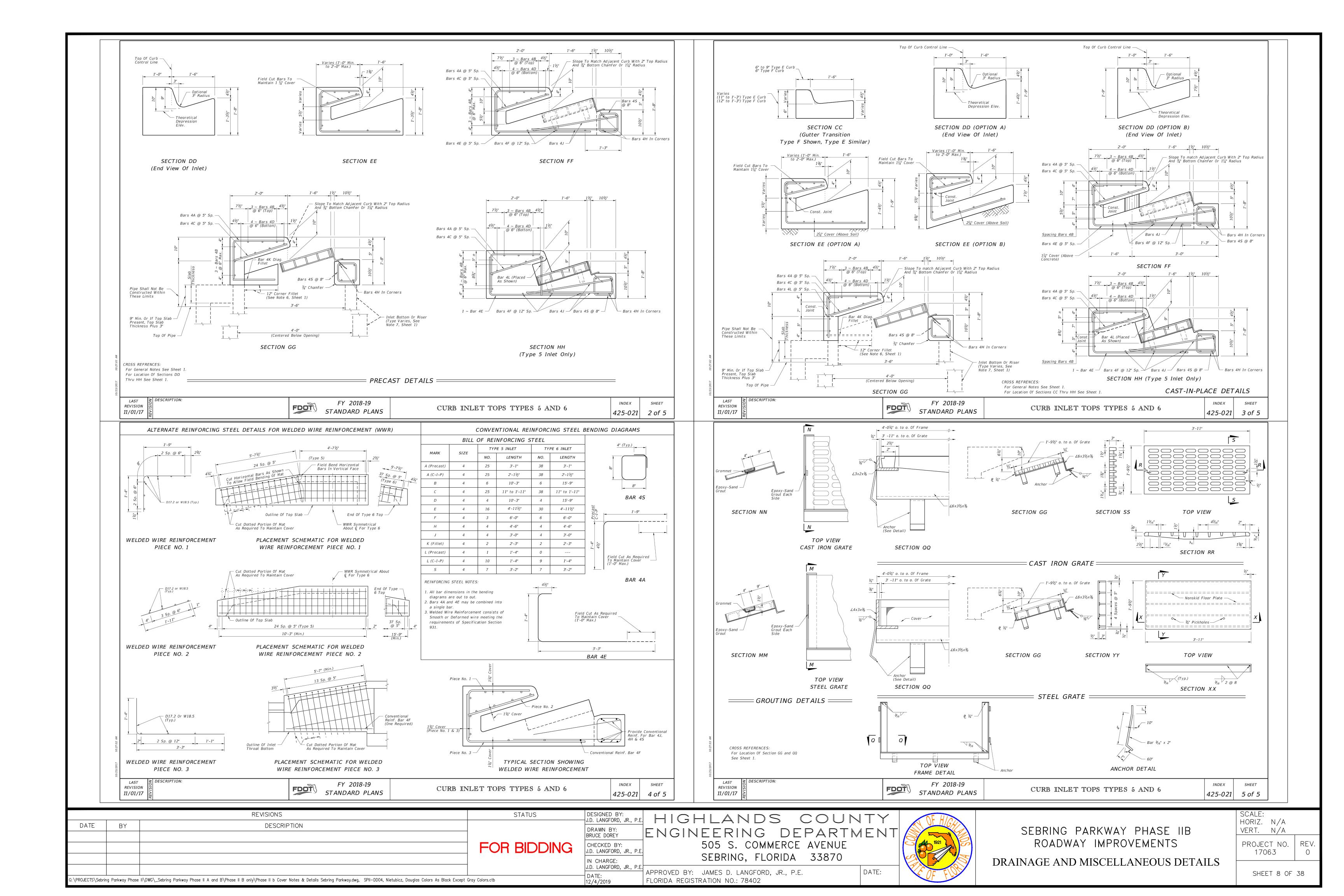
SEBRING, FLORIDA 33870

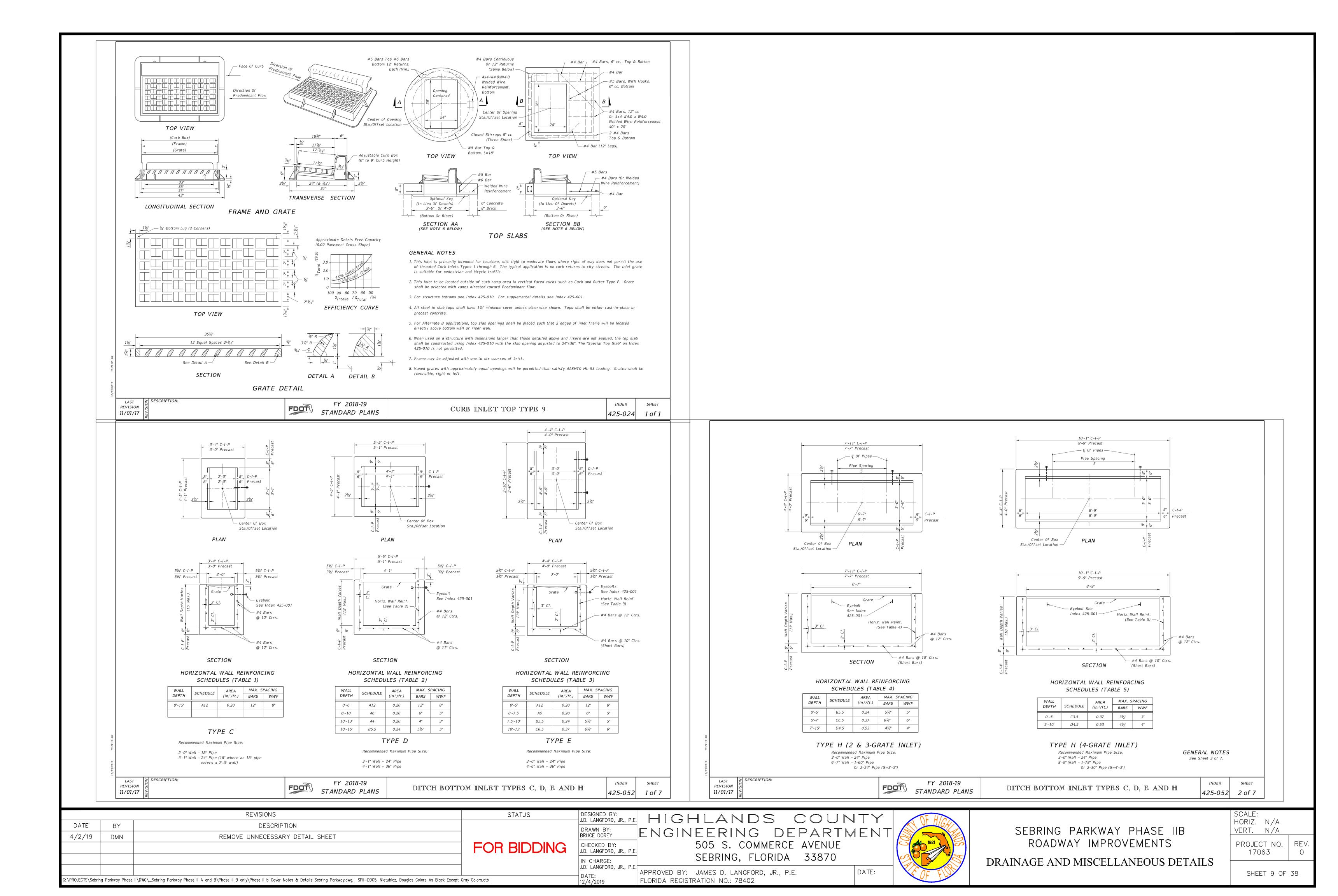
FLORIDA REGISTRATION NO.: 78402

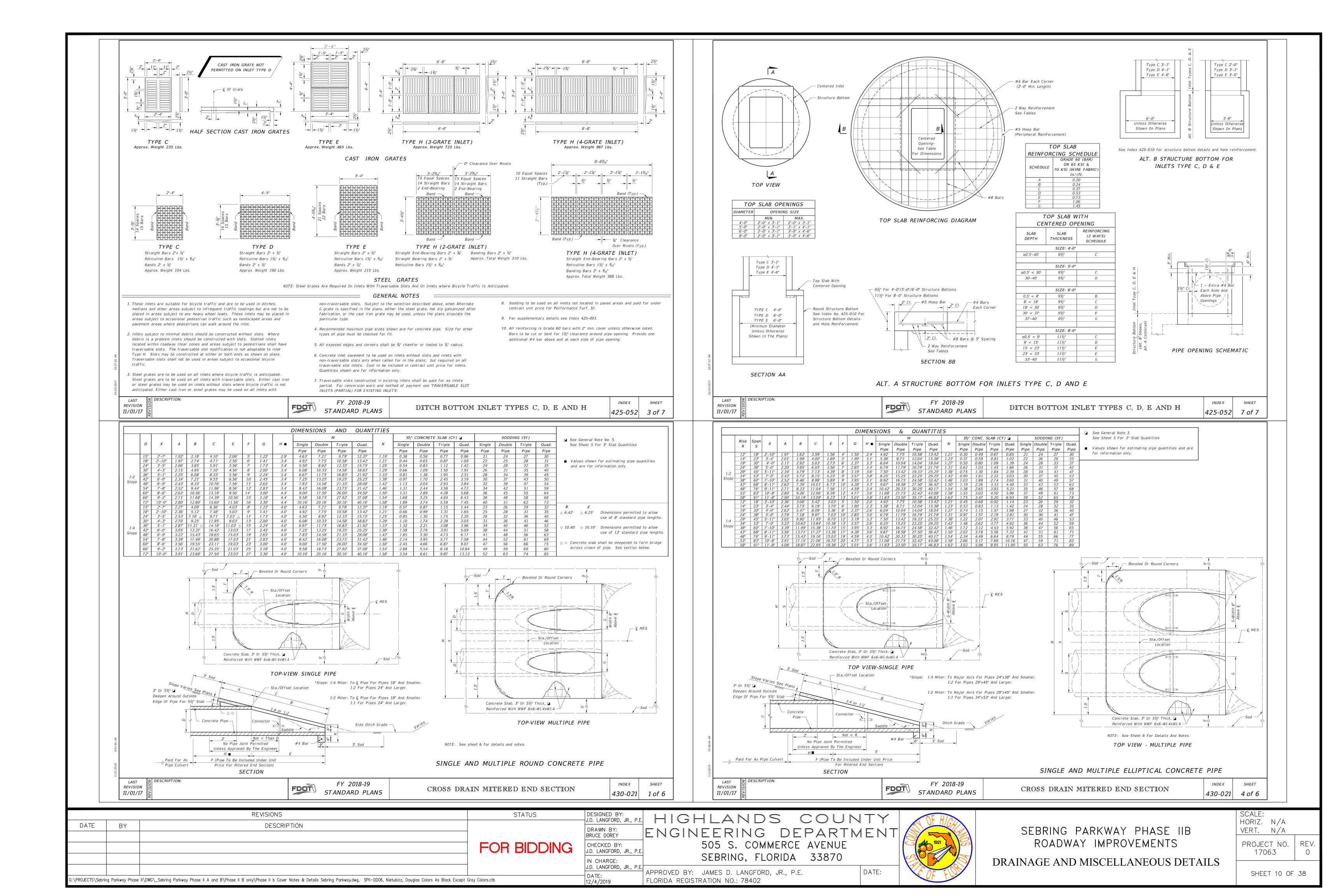
SEBRING PARKWAY PHASE IIB ROADWAY IMPROVEMENTS DRAINAGE AND MISCELLANEOUS DETAILS

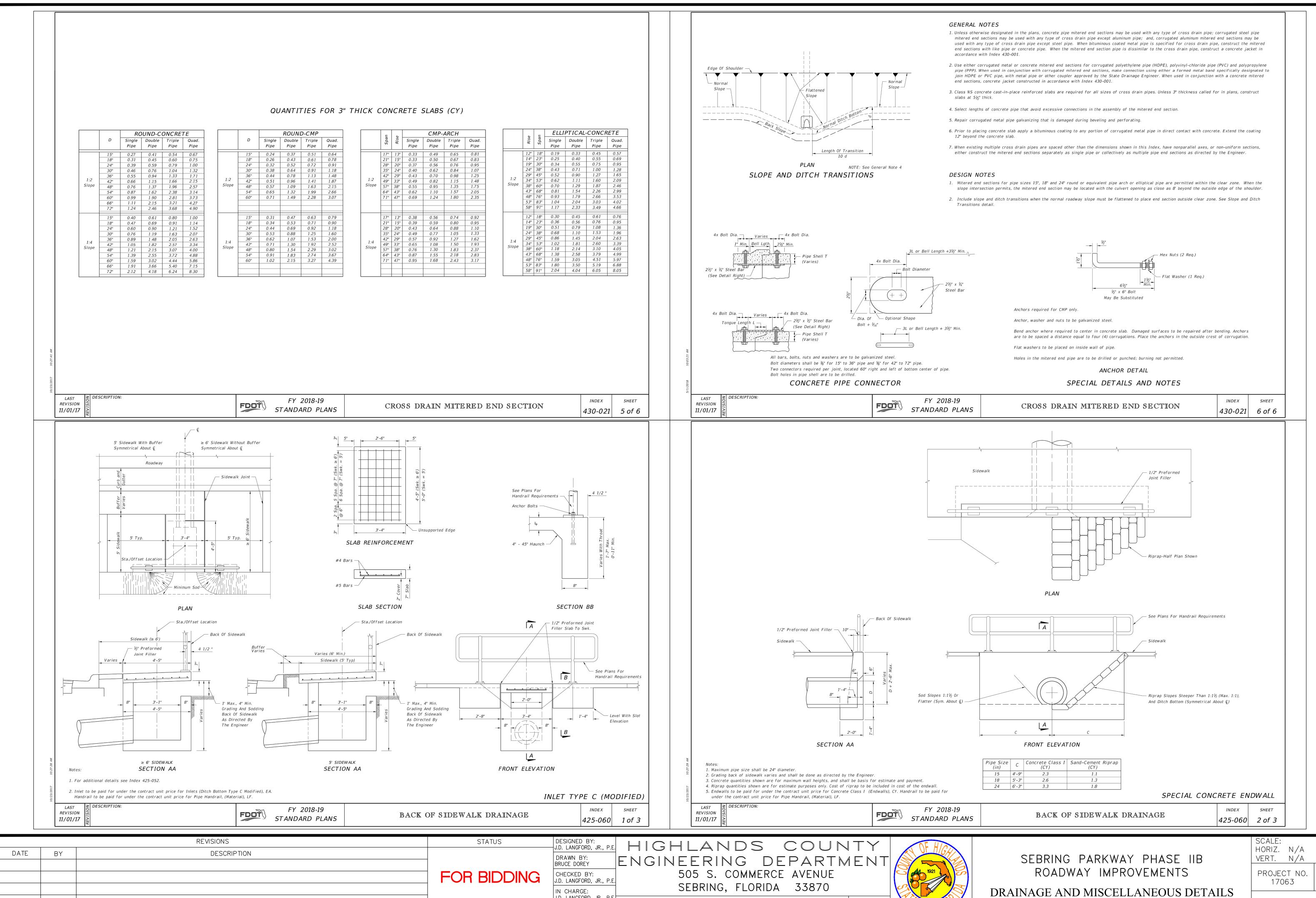
VERT. N/A PROJECT NO. 17063 SHEET 7 OF 38

DATE: APPROVED BY: JAMES D. LANGFORD, JR., P.E.









J.D. LANGFORD, JR., P.E

DATE:

12/4/2019

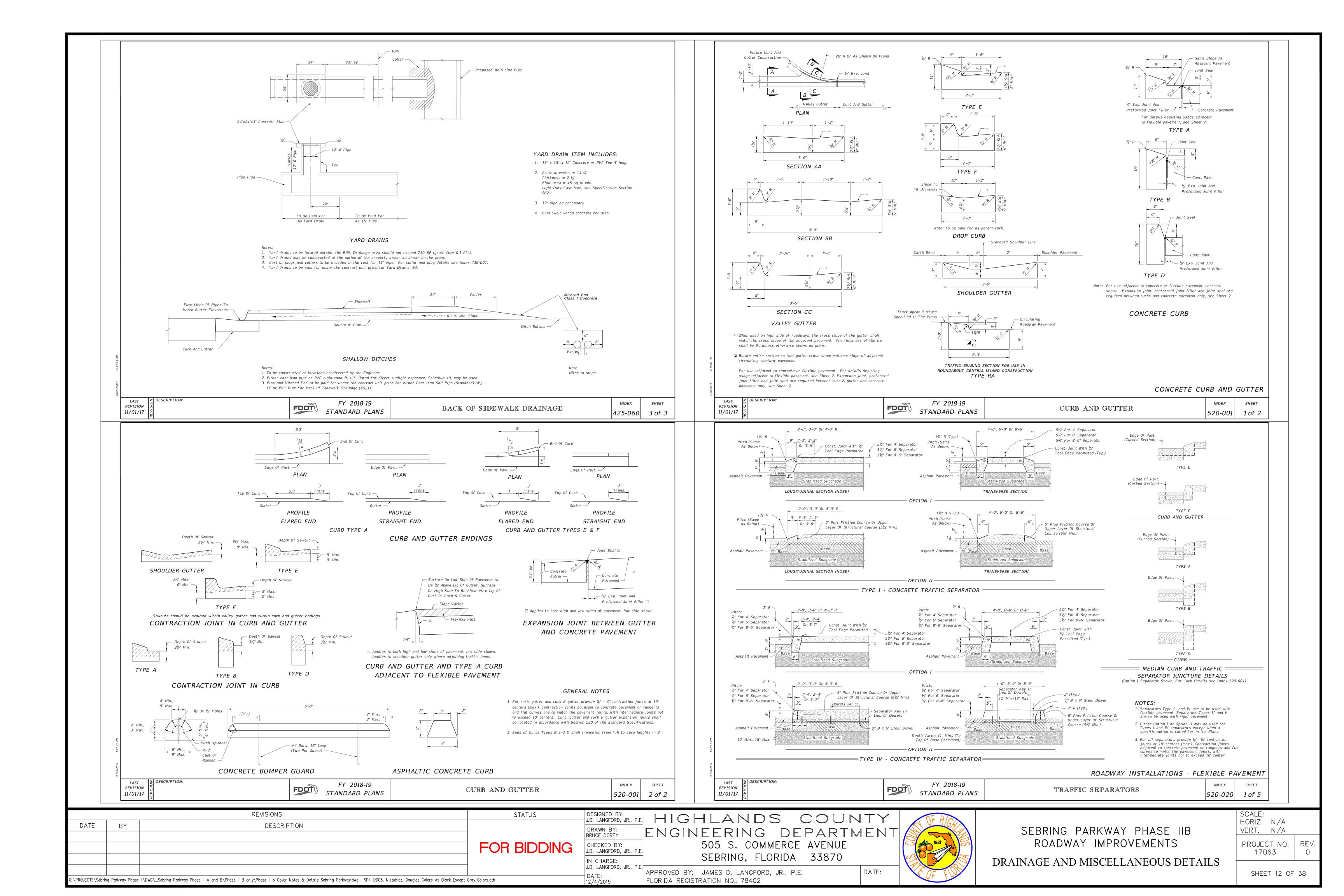
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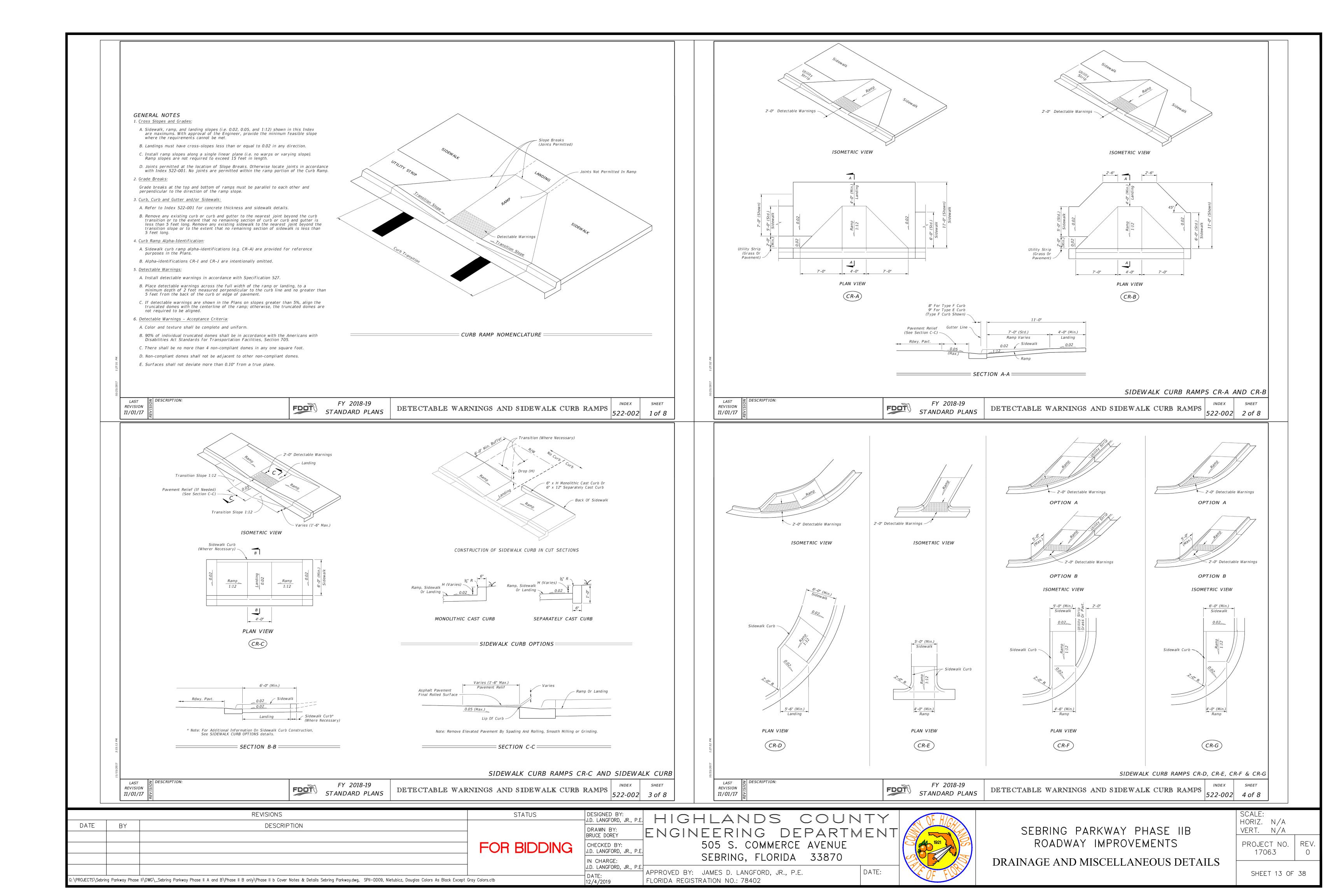
APPROVED BY: JAMES D. LANGFORD, JR., P.E.

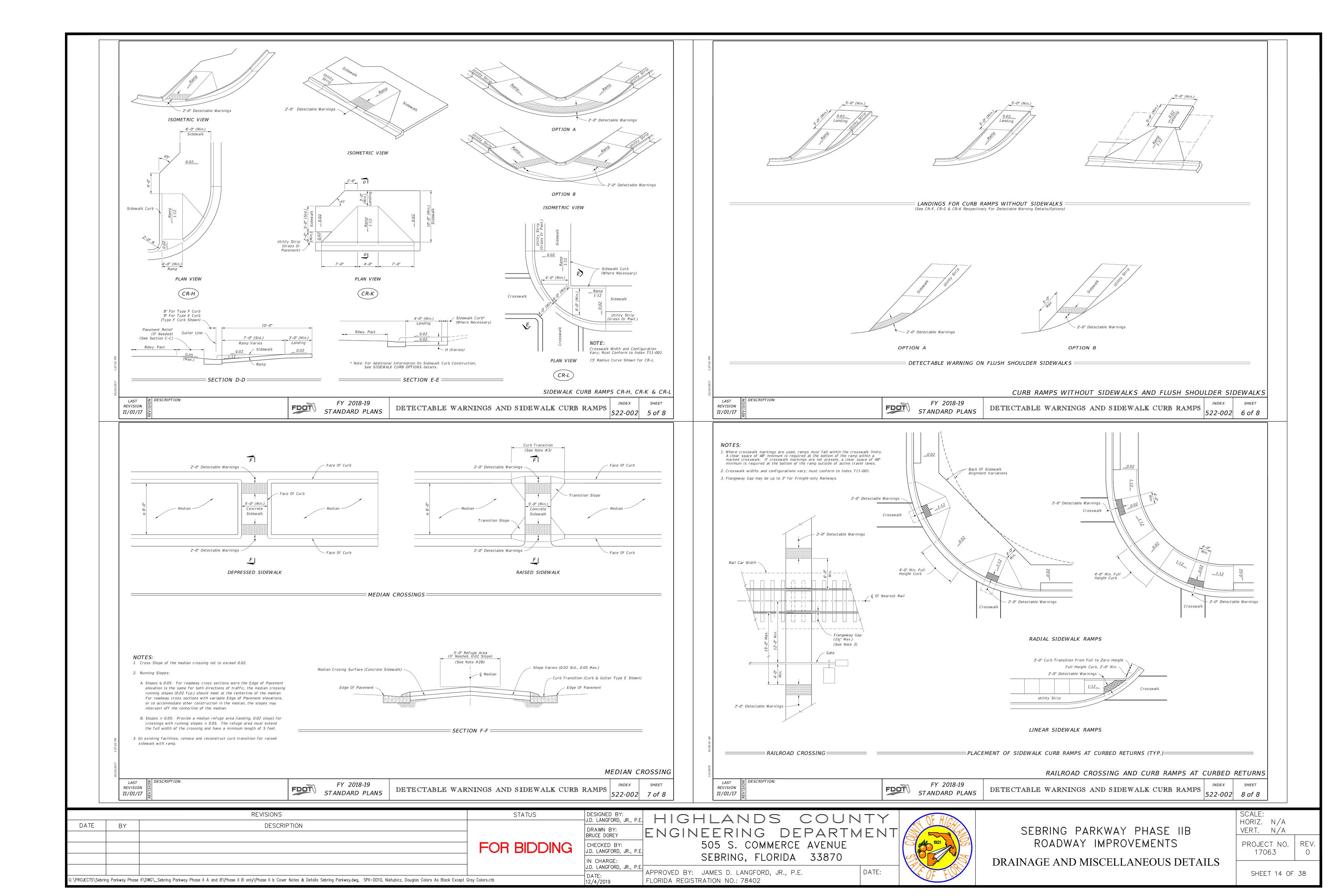
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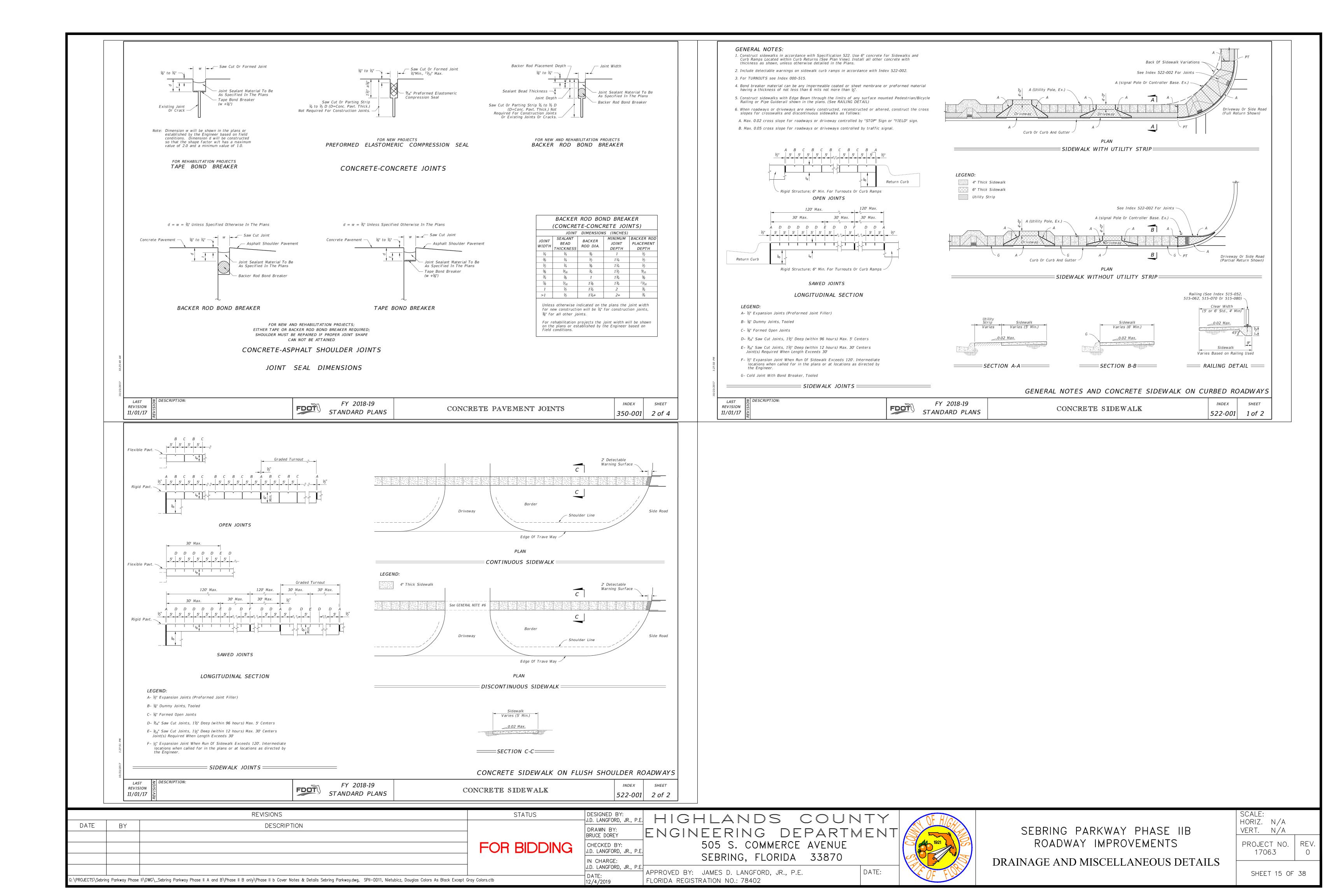
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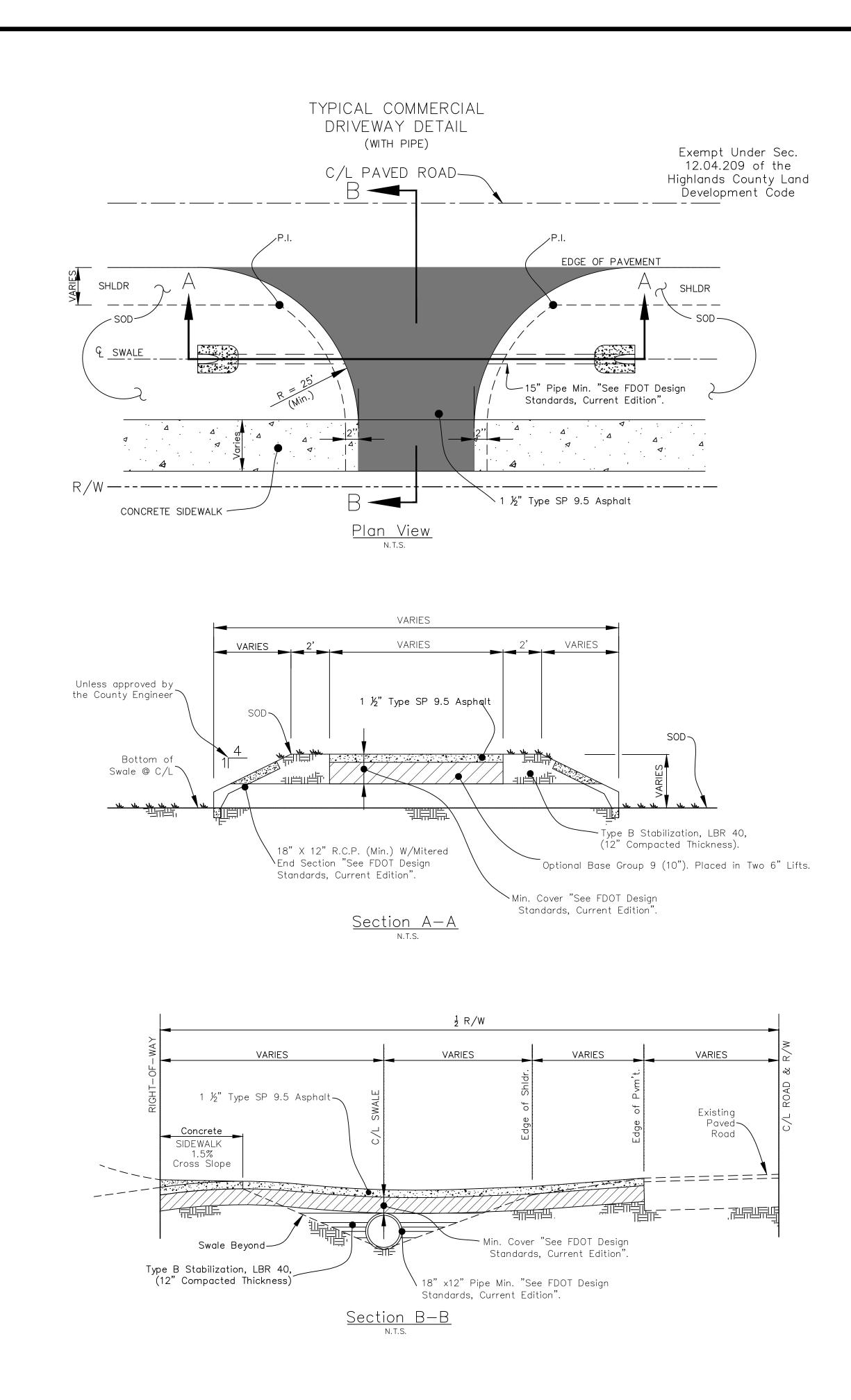
SHEET 11 OF 38











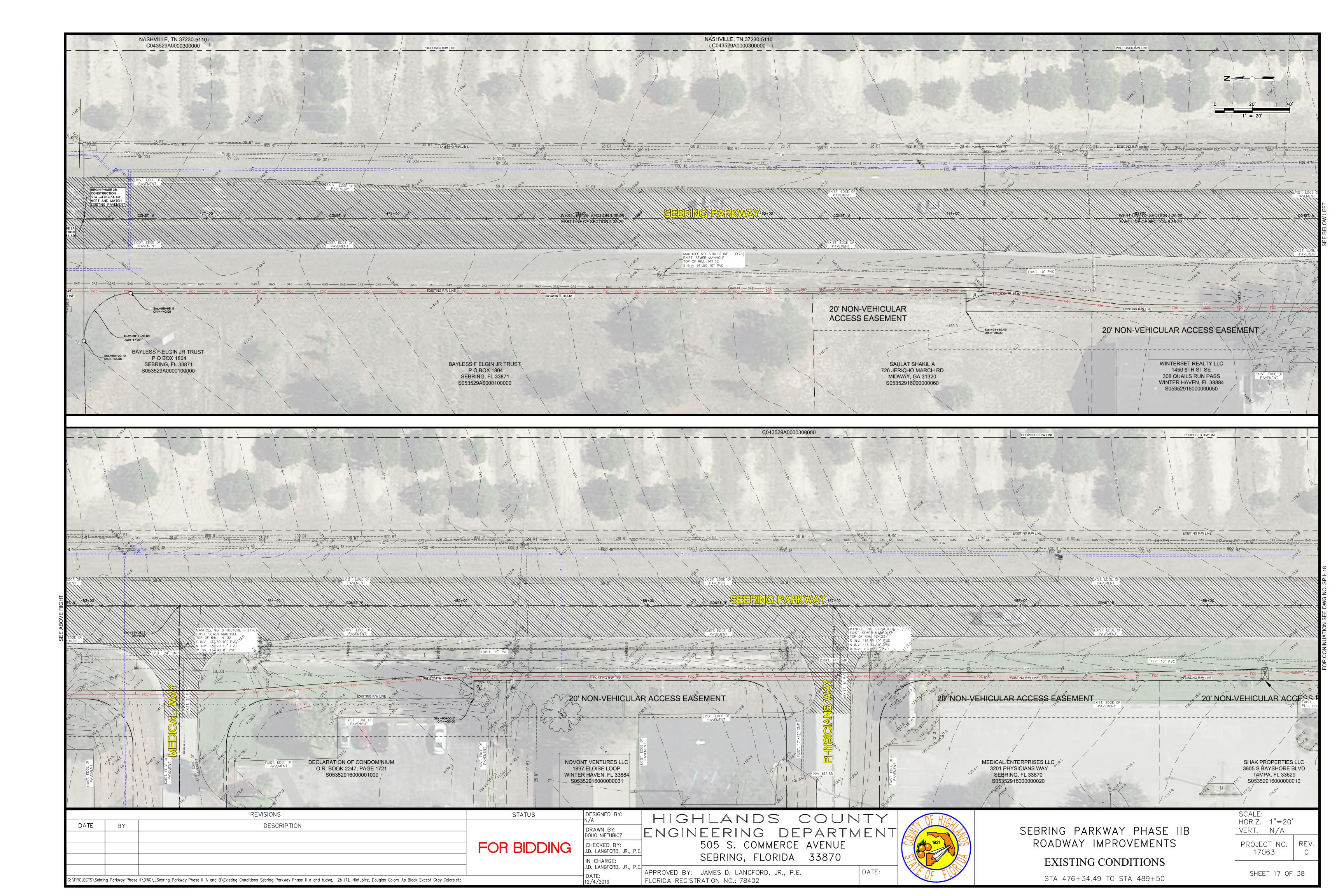
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DATE	REVISIONS DESCRIPTION	STATUS	DESIGNED BY: J.D. LANGFORD, JR., P.E DRAWN BY:	HIGHLANDS COUNTY Engineering department
		FOR BIDDING		505 S. COMMERCE AVENUE
G: \PROJECTS\Sebri	ing Parkway Phase II\DWG_Sebring Parkway Phase II A and B\Phase II B only\Phase II b Cover Notes & Details Sebring Parkway.dwg, SPII—DD12, Nietubicz, Douglas Colors As Black Ex	cept Gray Colors.ctb	J.D. LANGFORD, JR., P.E DATE: 12/4/2019	APPROVED BY: JAMES D. LANGFORD, JR., P.E. DATE: FLORIDA REGISTRATION NO.: 78402

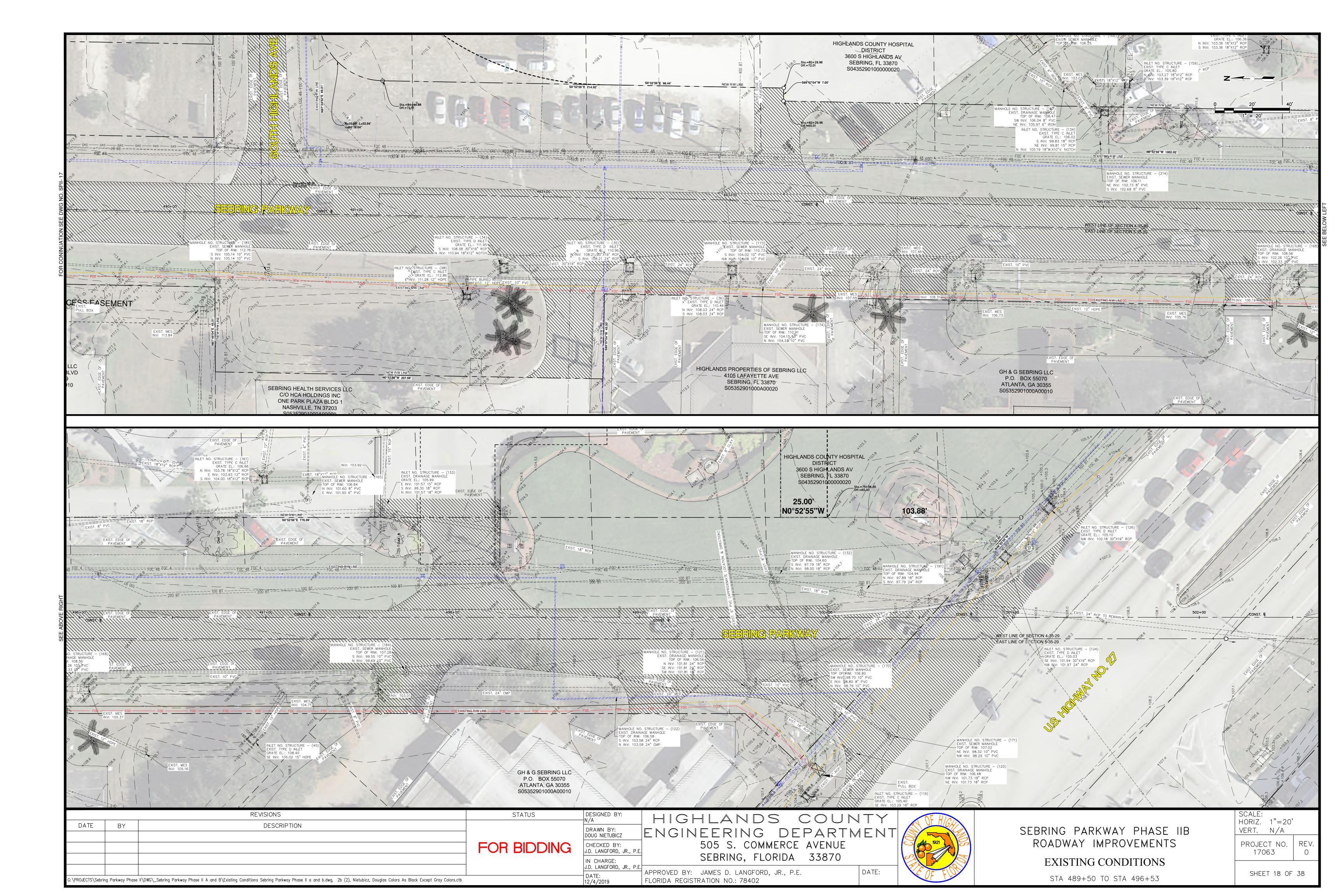


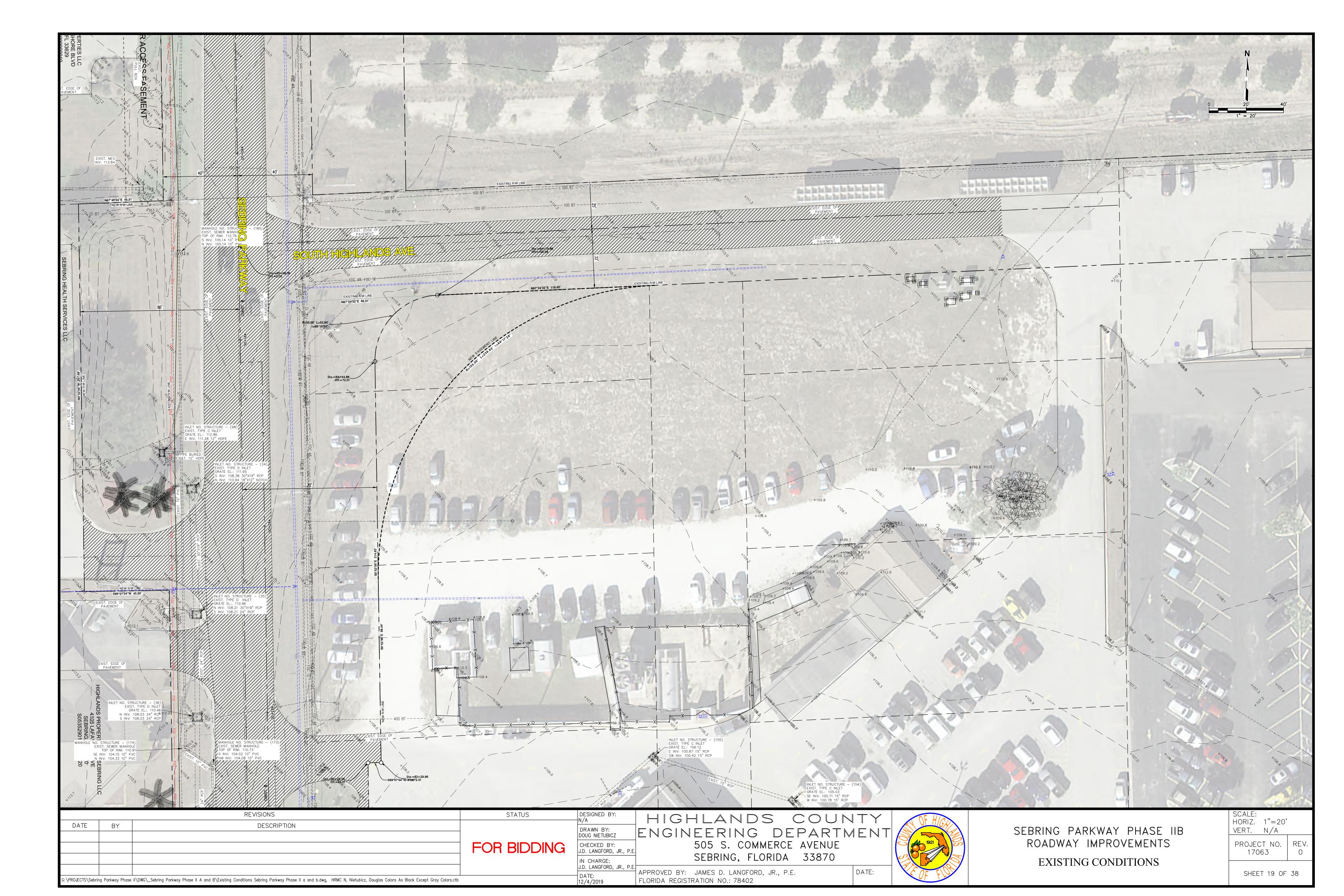
SEBRING PARKWAY PHASE IIB
ROADWAY IMPROVEMENTS

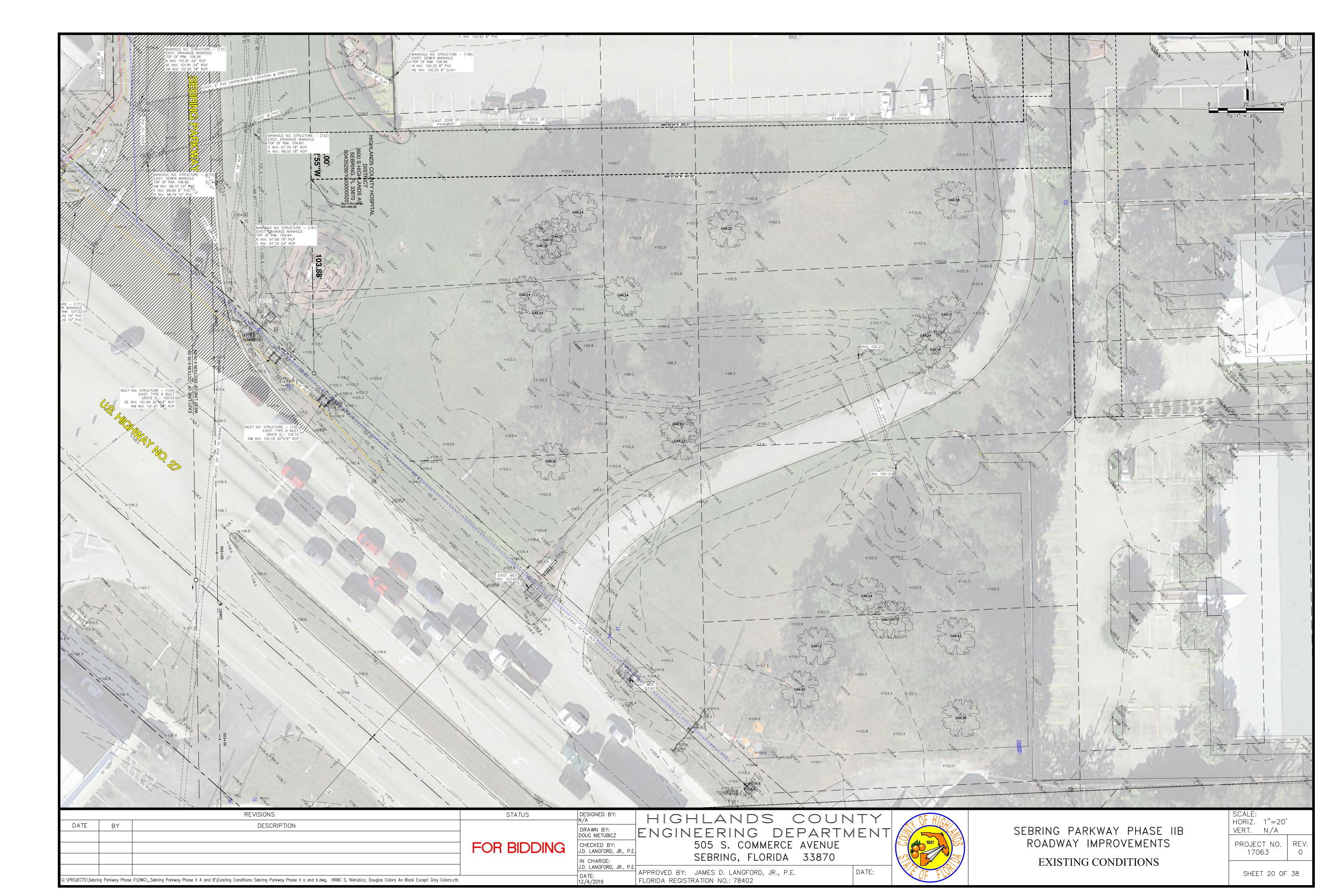
DRAINAGE AND MISCELLANEOUS DETAILS

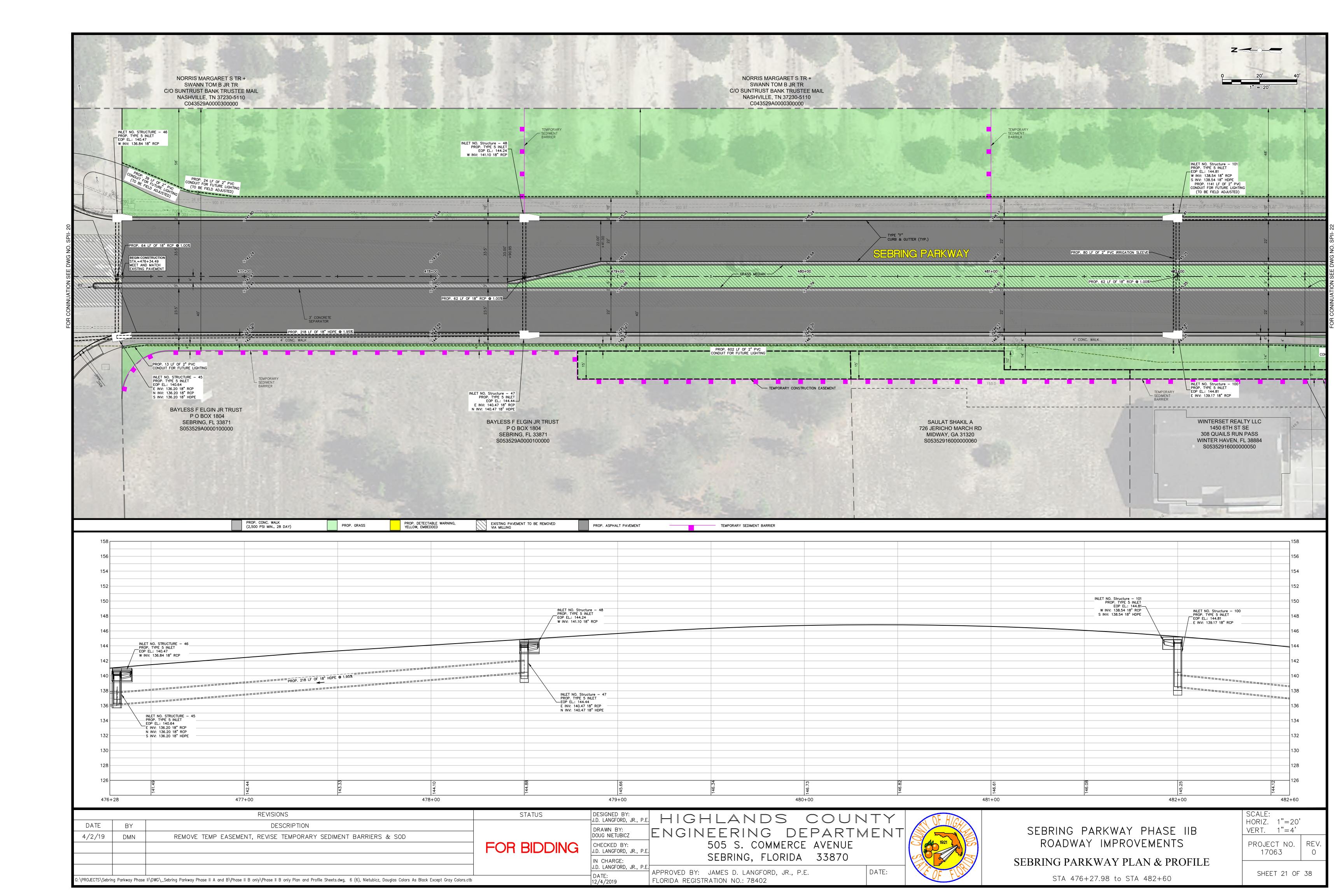
SCALE: HORIZ. N/A VERT. N/A	
PROJECT NO. 17063	REV. O
SHEET 16 OF	38

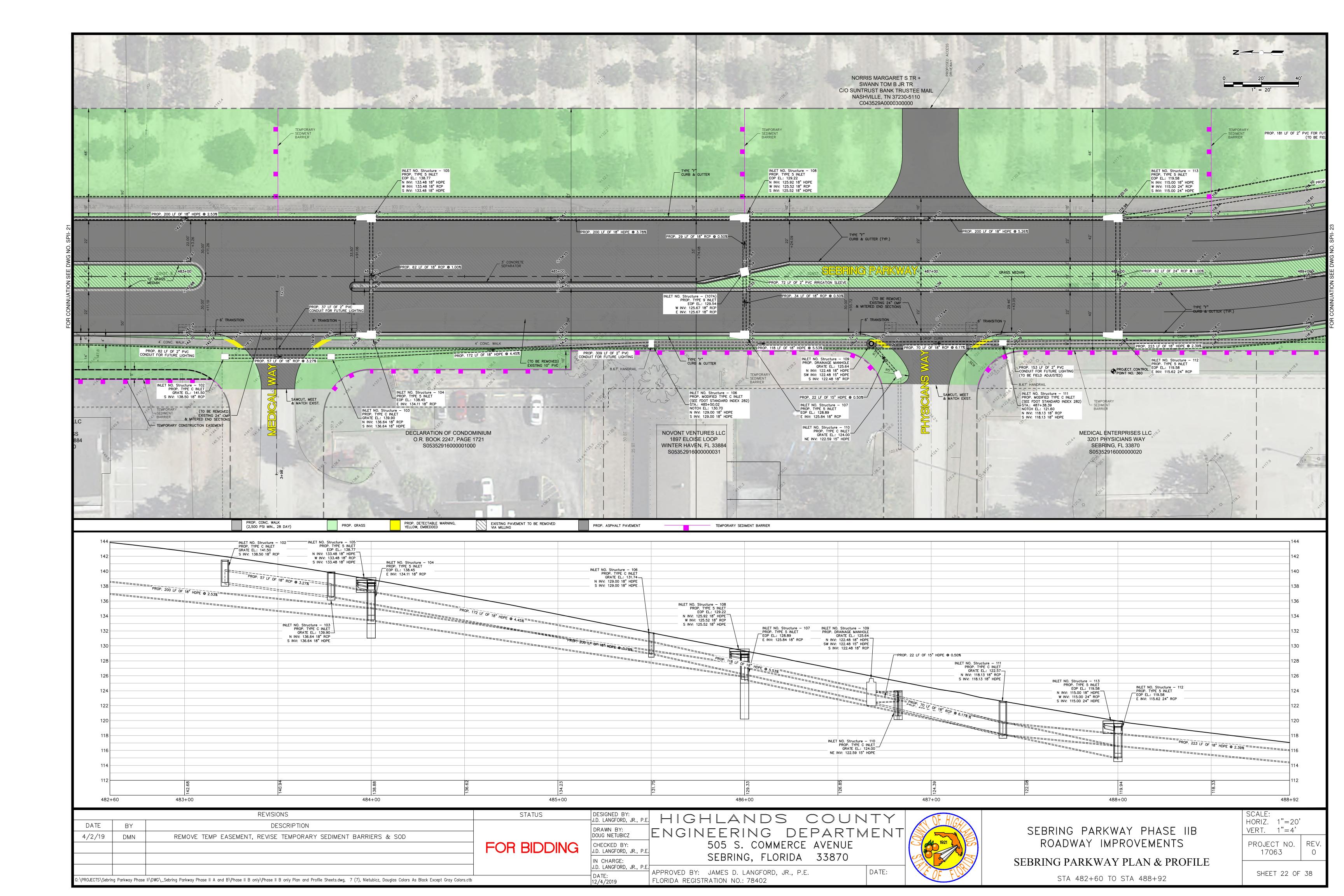






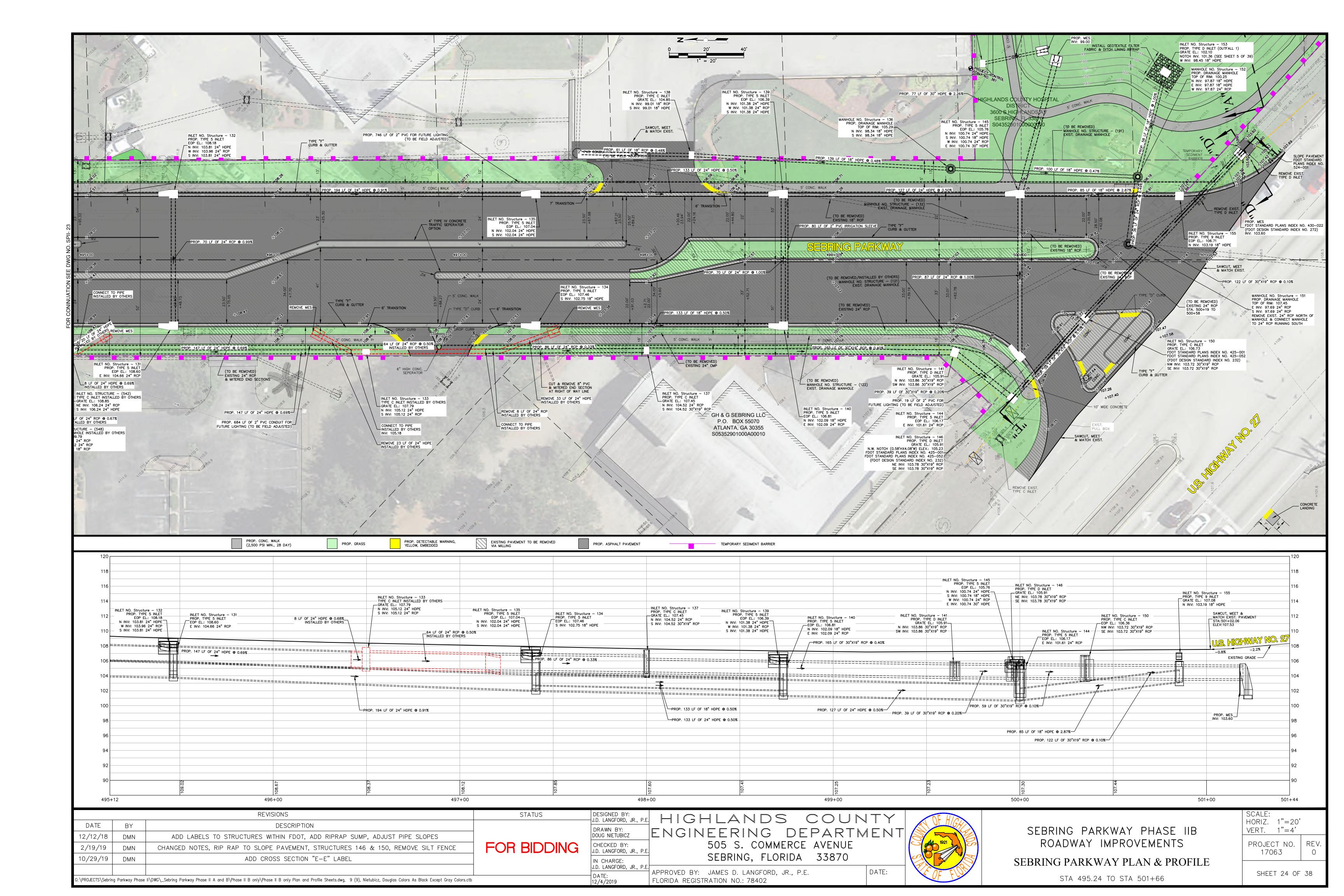


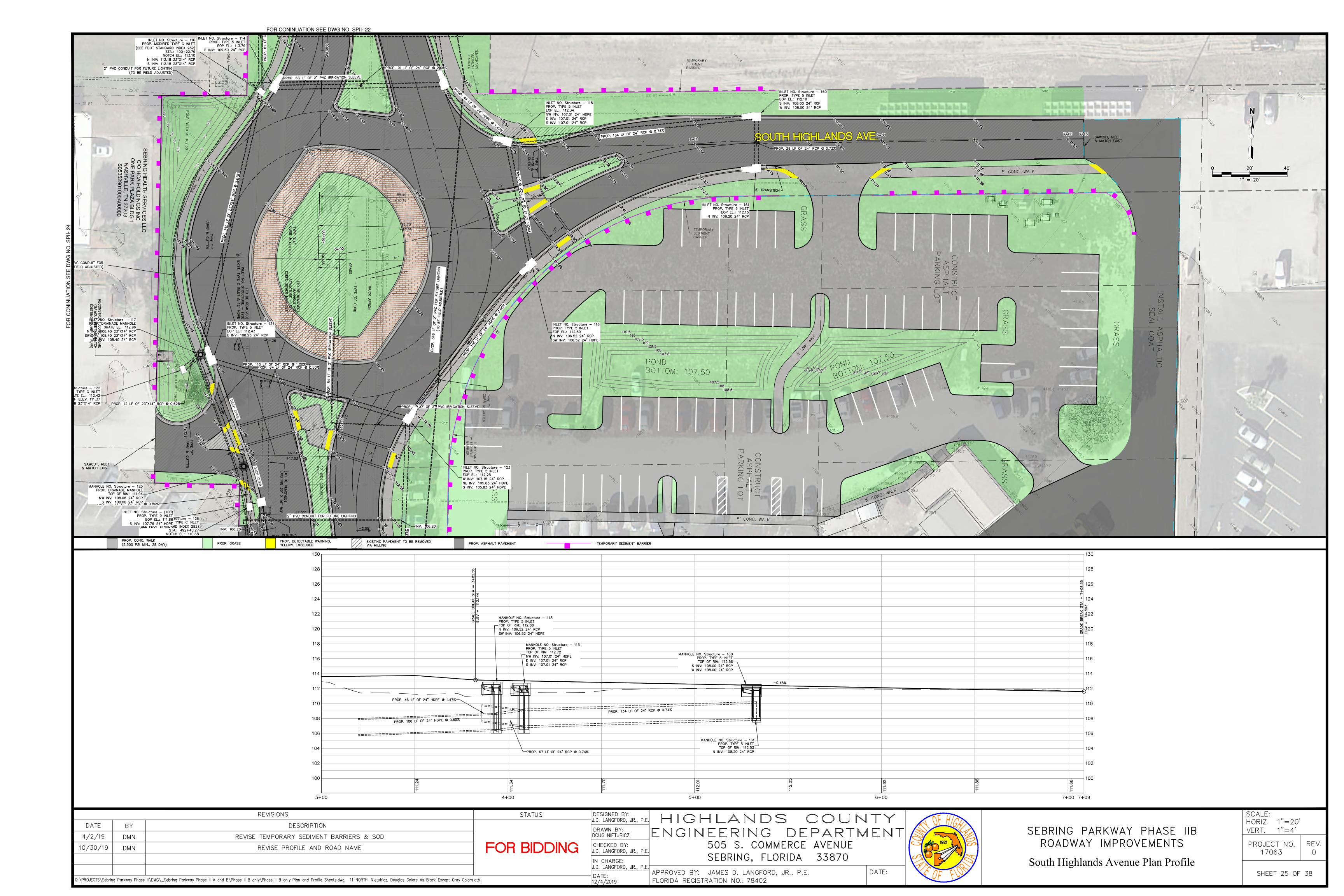


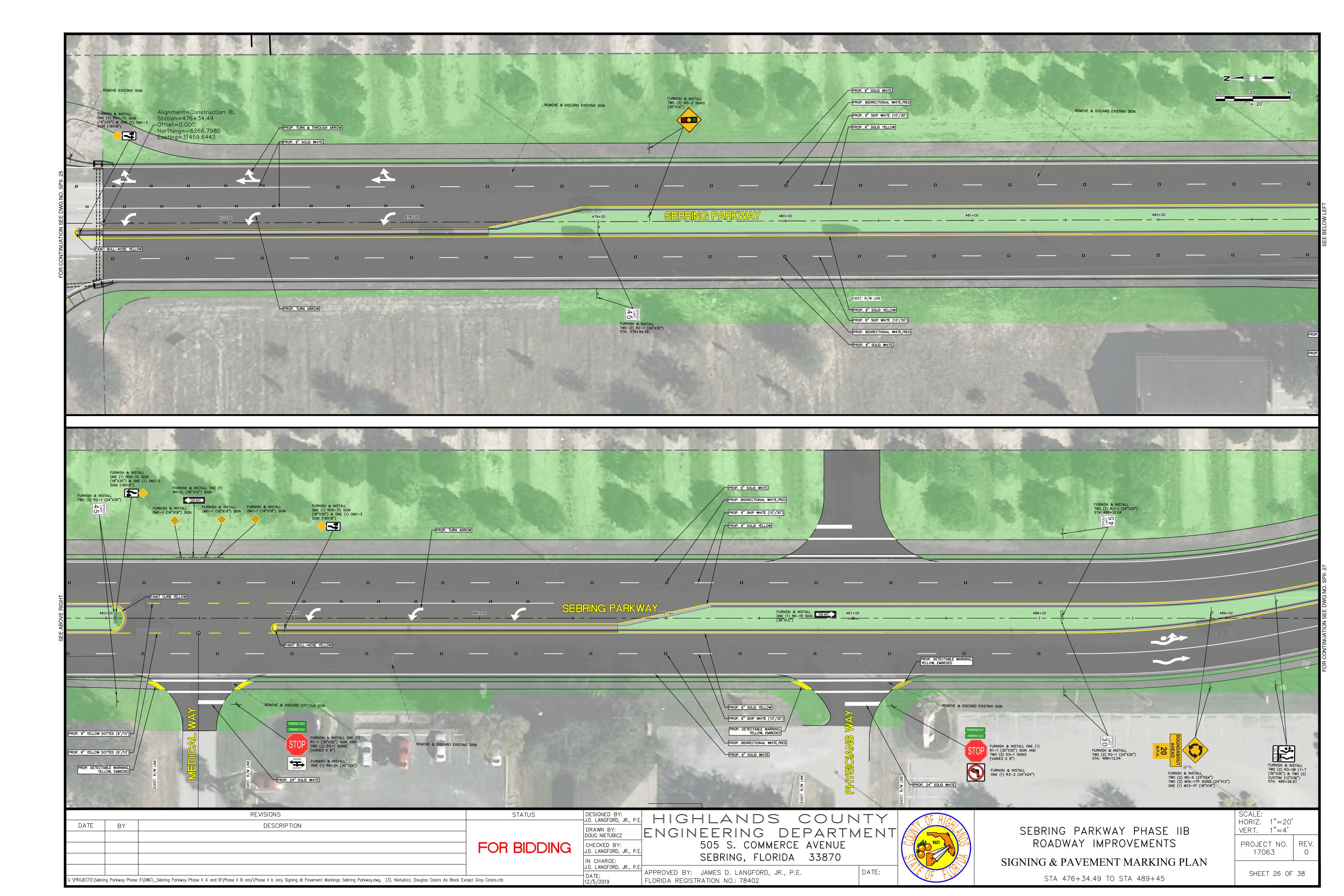


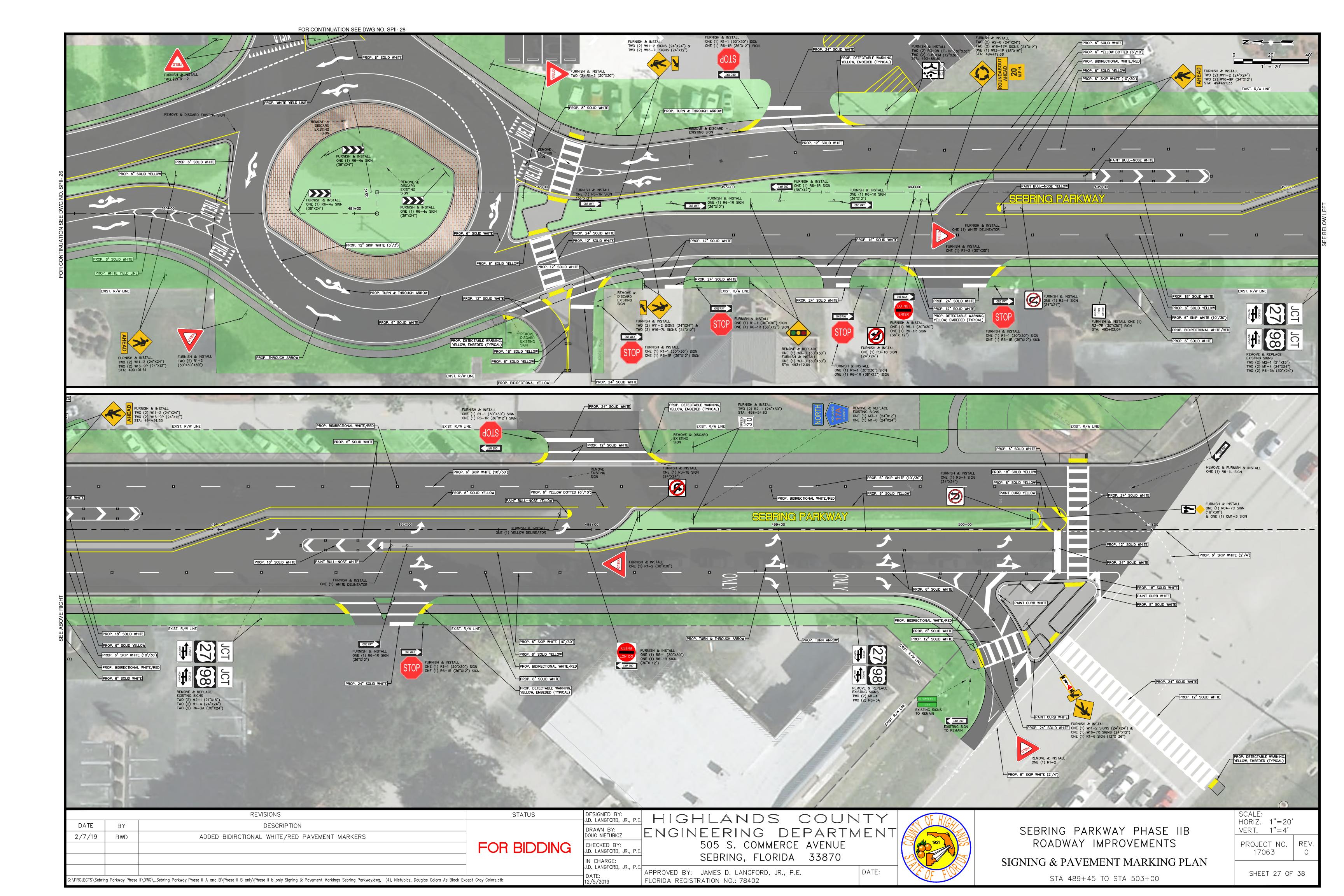
FLORIDA REGISTRATION NO.: 78402

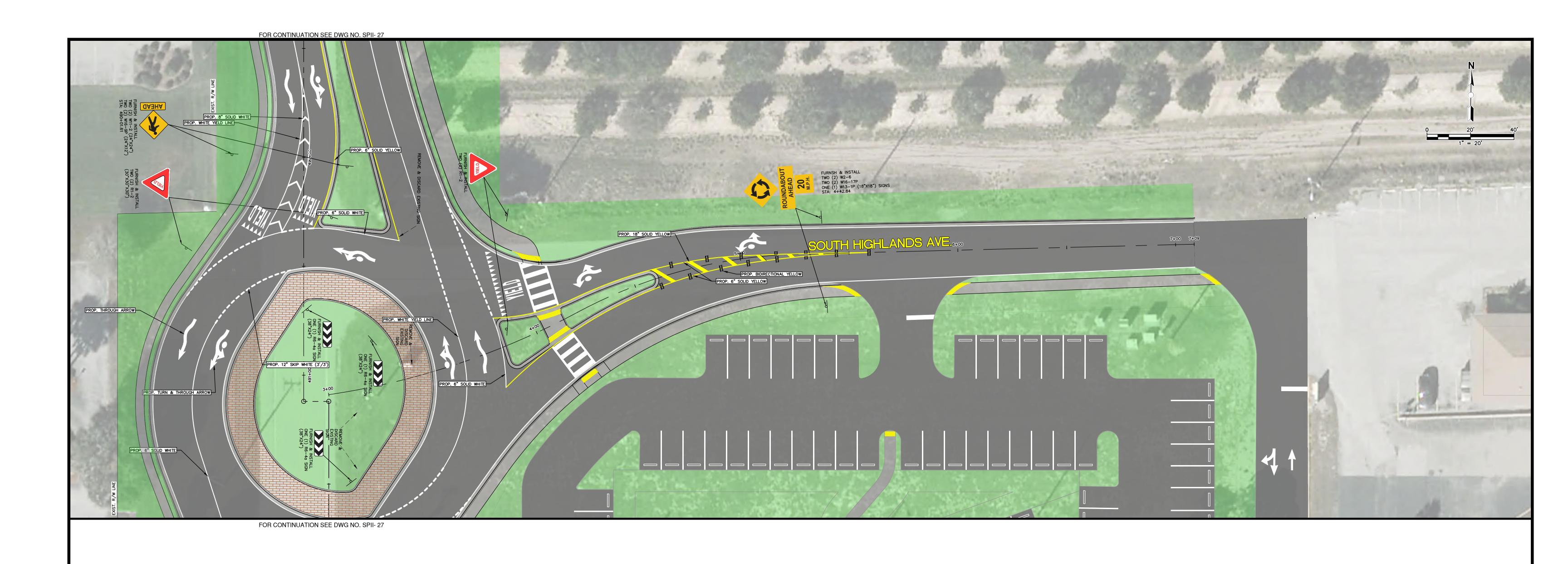
\PROJECTS\Sebring Parkway Phase II\DWG_Sebring Parkway Phase II A and B\Phase II B only\Phase II B only Plan and Profile Sheets.dwg, 8 (8), Nietubicz, Douglas Colors As Black Except Gray Colors.ctt











REVISIONS STATUS DESCRIPTION FOR BIDDING

S:\PROJECTS\Sebring Parkway Phase II\DWG_Sebring Parkway Phase II A and B\Phase II B only\Phase II b only Signing & Pavement Markings Sebring Parkway.dwg, (5), Nietubicz, Douglas Colors As Black Except Gray Colors.ctb

DESIGNED BY:

J.D. LANGFORD, JR., P.E. HIGHLANDS COUNTY DRAWN BY: DOUG NIETUBICZ ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE CHECKED BY: J.D. LANGFORD, JR., P.E. SEBRING, FLORIDA 33870 IN CHARGE:

J.D. LANGFORD, JR., P.E.

APPROVED BY: JAMES D. LANGFORD, JR., P.E.

APPROVED BY: 78402 DATE:

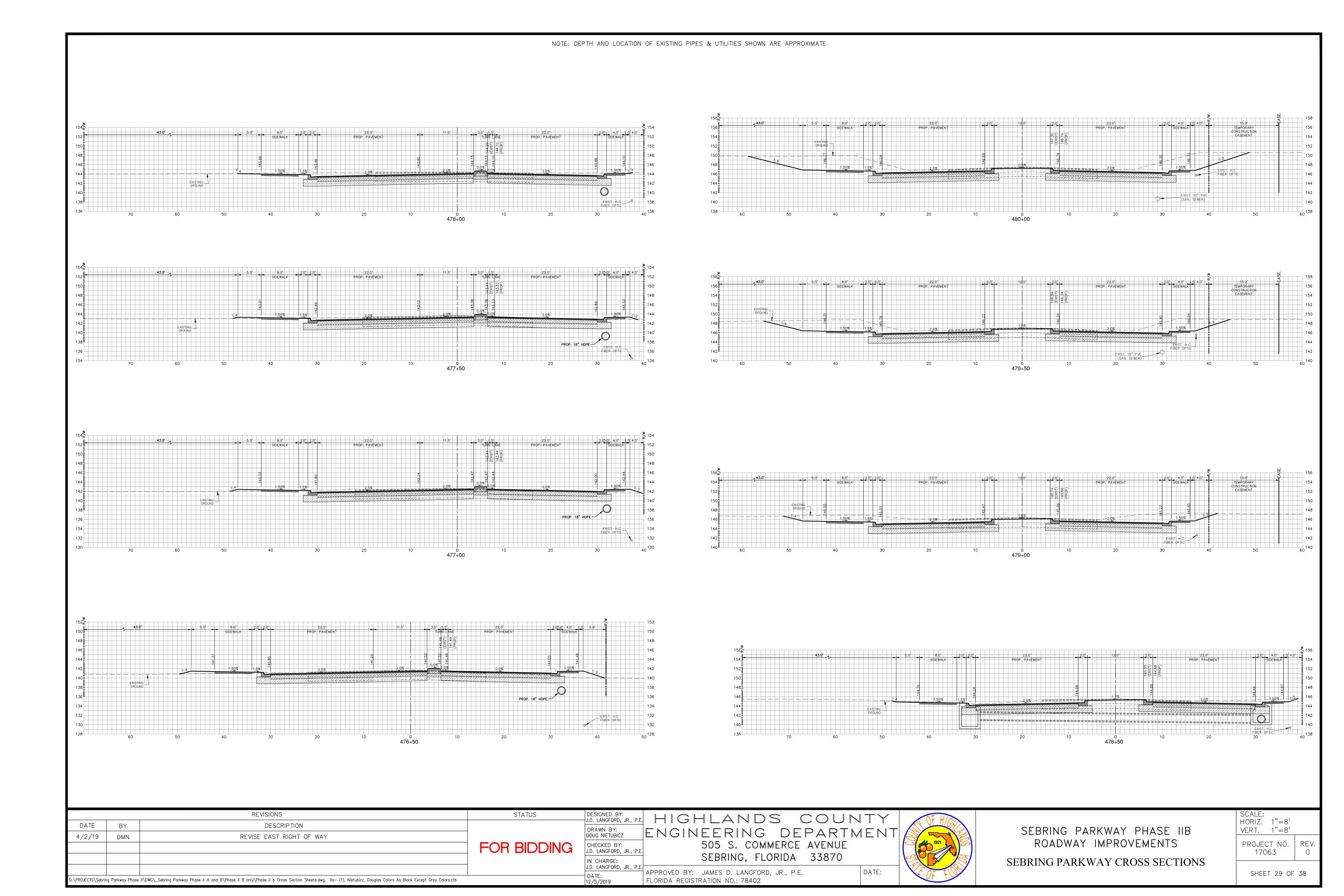
SEBRING PARKWAY PHASE IIB ROADWAY IMPROVEMENTS

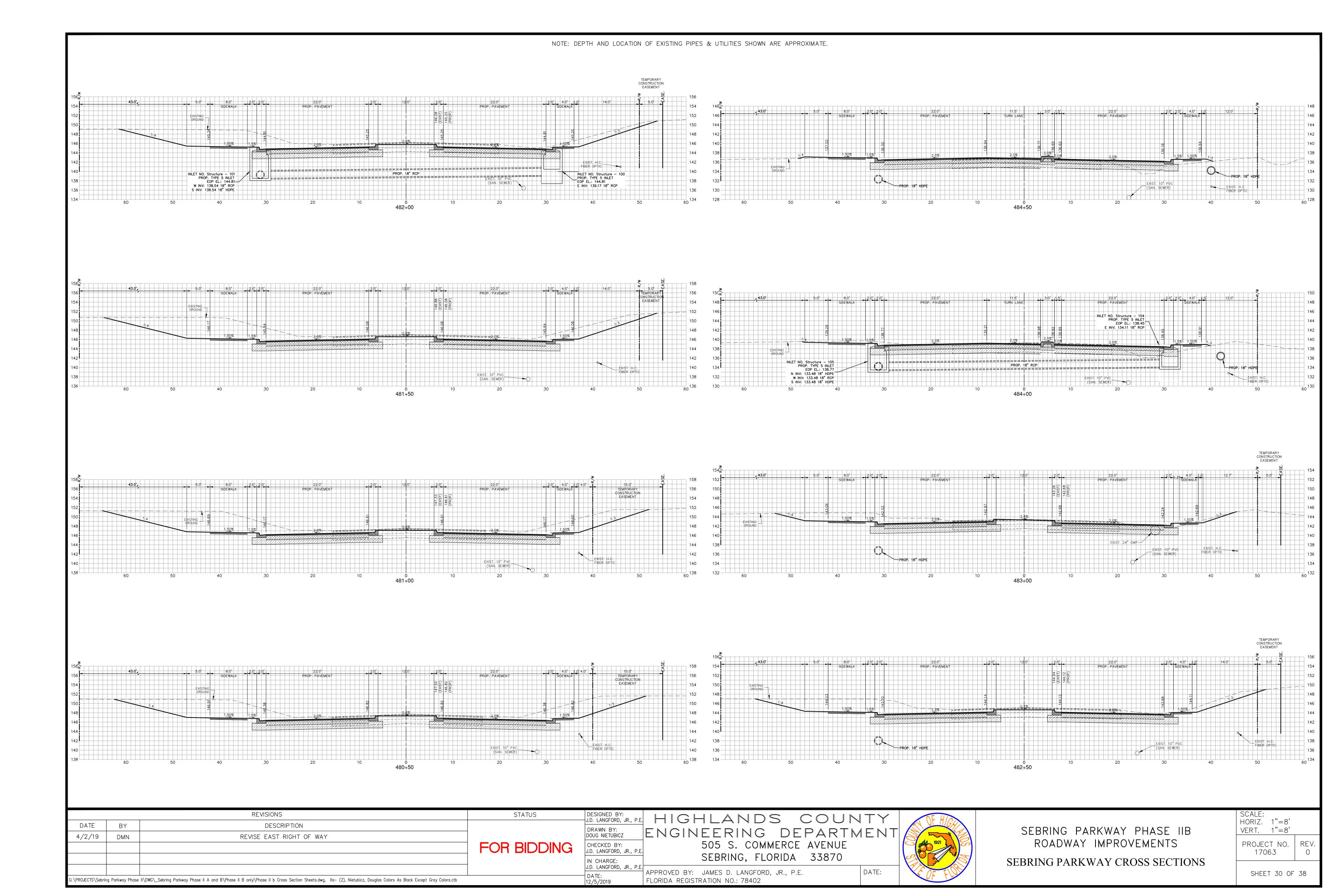
SIGNING & PAVEMENT MARKING PLAN

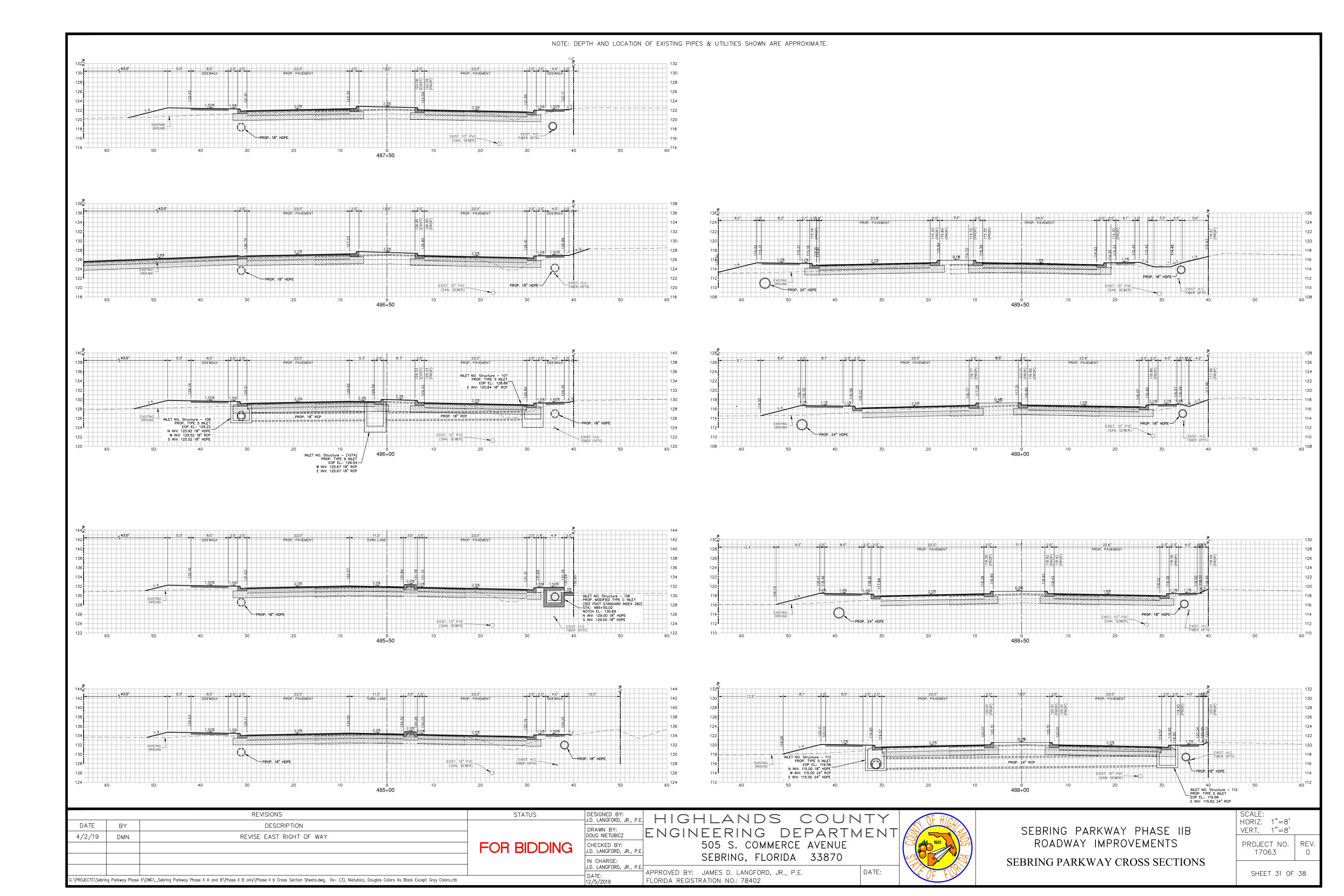
MEDICAL CENTER AVENUE

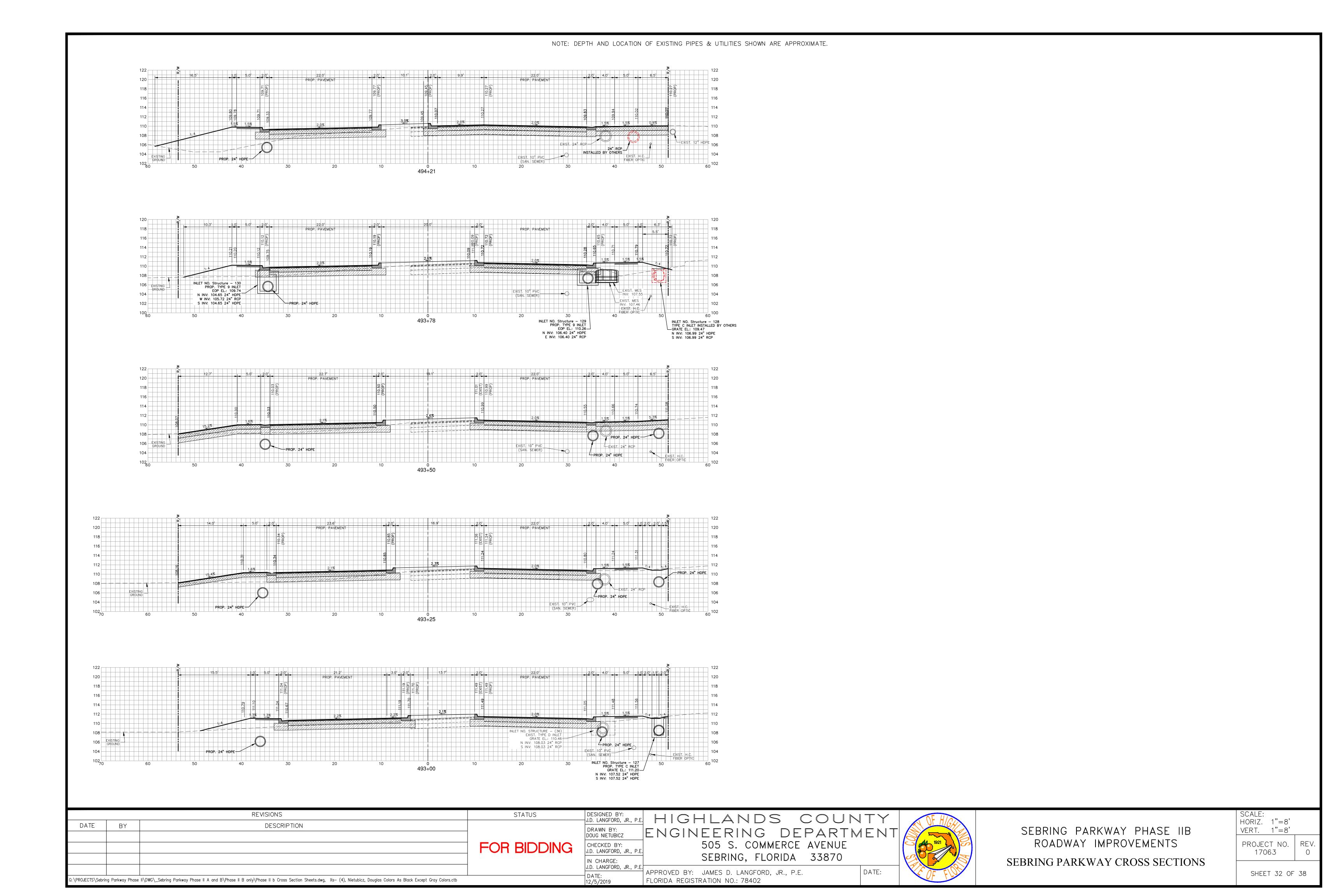
PROJECT NO. REV. 17063 SHEET 28 OF 38

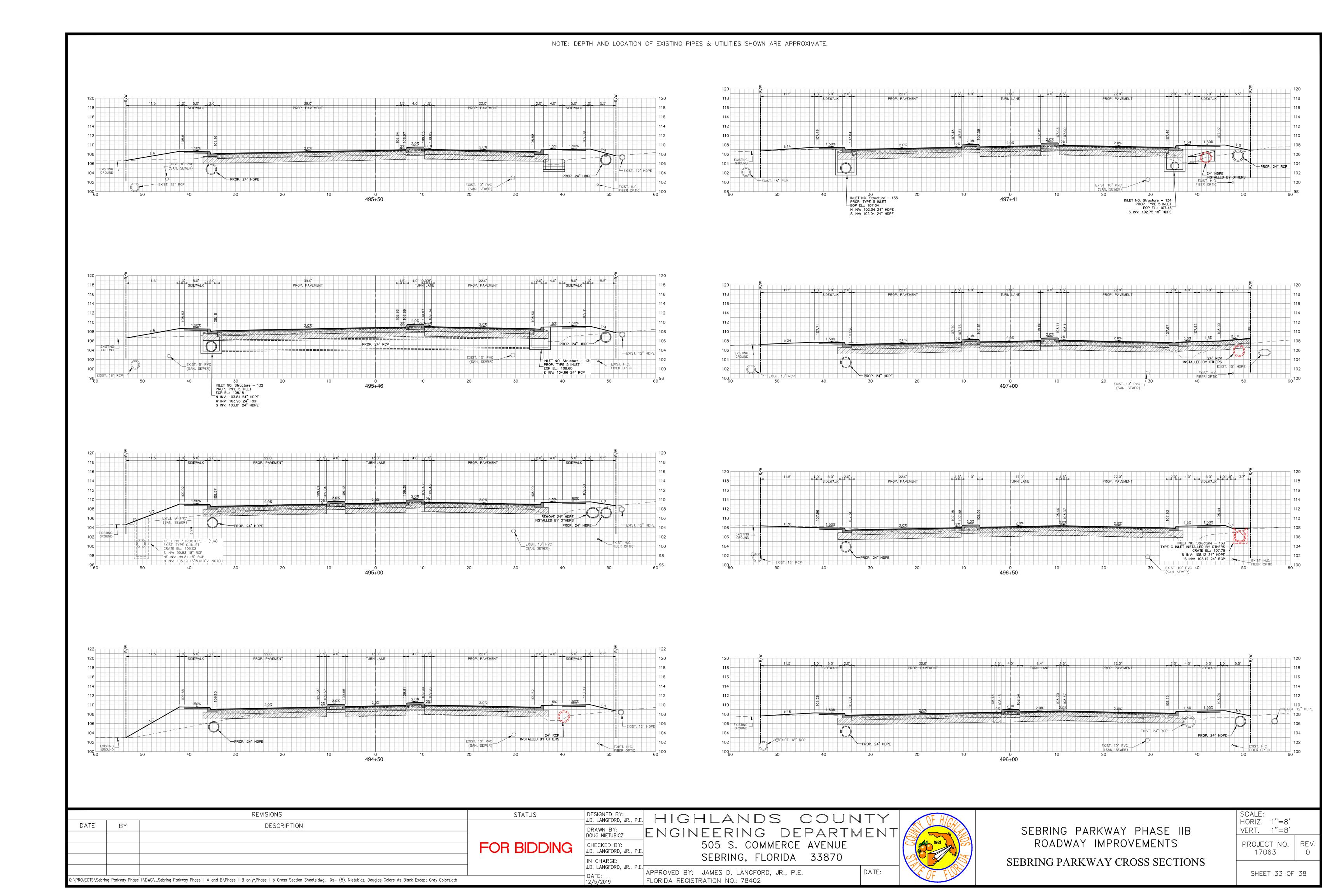
SCALE: HORIZ. 1"=20' VERT. 1"=4'

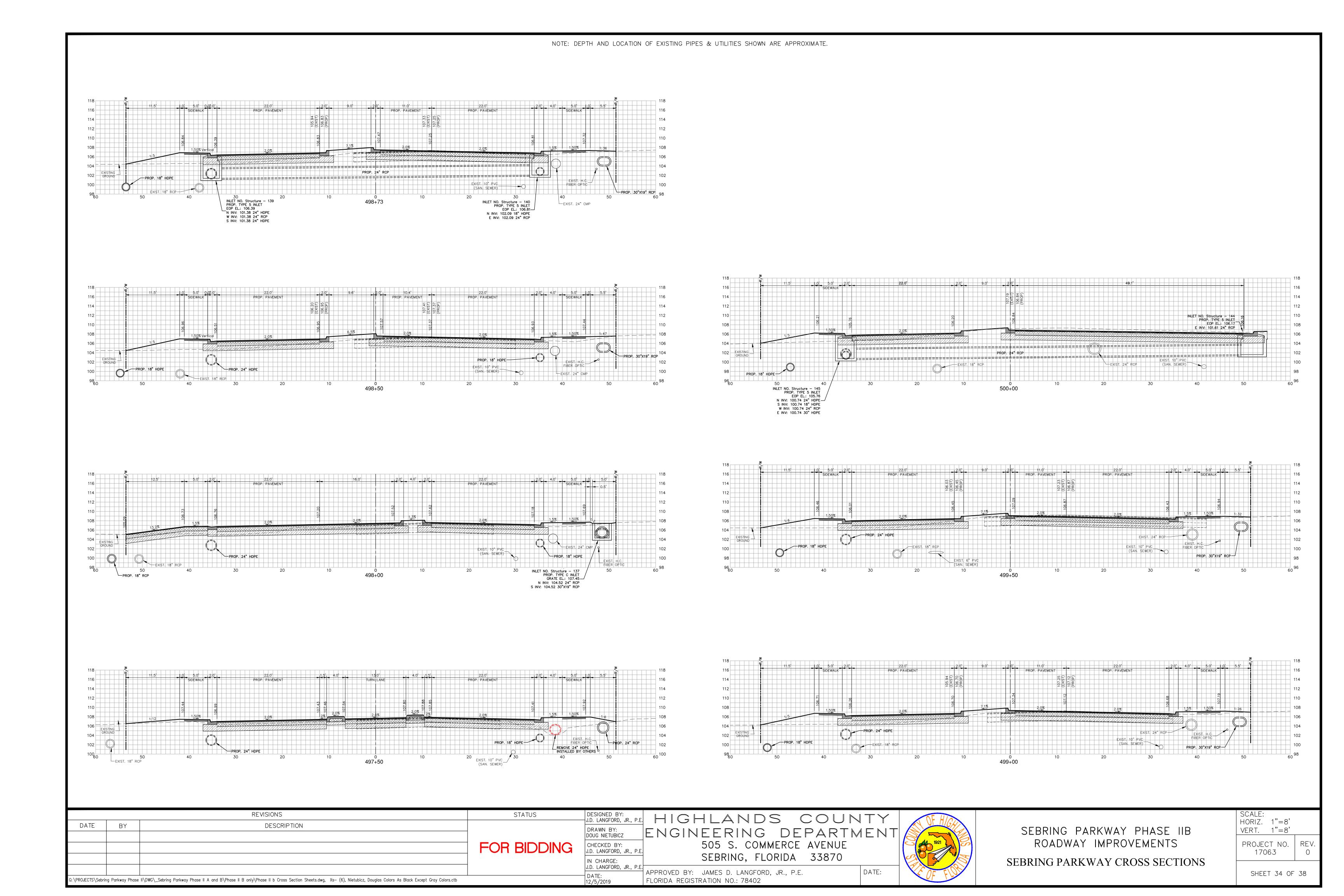












NOTE: DEPTH AND LOCATION OF EXISTING PIPES & UTILITIES SHOWN ARE APPROXIMATE. 108

	REVISIONS		
	DESCRIPTION	BY	DATE
]	REMOVE TEMP EASEMENT, REVISE TEMPORARY SEDIMENT BARRIERS, SOD, DRAIN. SYSTEM BY OTHERS	DMN	4/2/19
] F	ADD LABELS AND CHANGE ROAD NAME	DMN	10/29/19

E:\PROJECTS\Sebring Parkway Phase II\DWG_Sebring Parkway Phase II A and B\Phase II B only\Phase II b Cross Section Sheets.dwg, Xs— (7), Nietubicz, Douglas Colors As Black Except Gray Colors.ctb

FOR BIDDING

STATUS

DATE: 12/4/2019

DESIGNED BY:
J.D. LANGFORD, JR., P.E.

DRAWN BY:
DOUG NIETUBICZ

CHECKED BY:
J.D. LANGFORD, JR., P.E.

CHECKED BY:
J.D. LANGFORD, JR., P.E.

CHECKED BY:
J.D. LANGFORD, JR., P.E.
IN CHARGE:
J.D. LANGFORD, JR., P.E.
APPROVED BY: JAMES D. LANGFORD, JR., P.E.

FLORIDA REGISTRATION NO.: 78402

SOUTH HIGHLANDS AVENUE

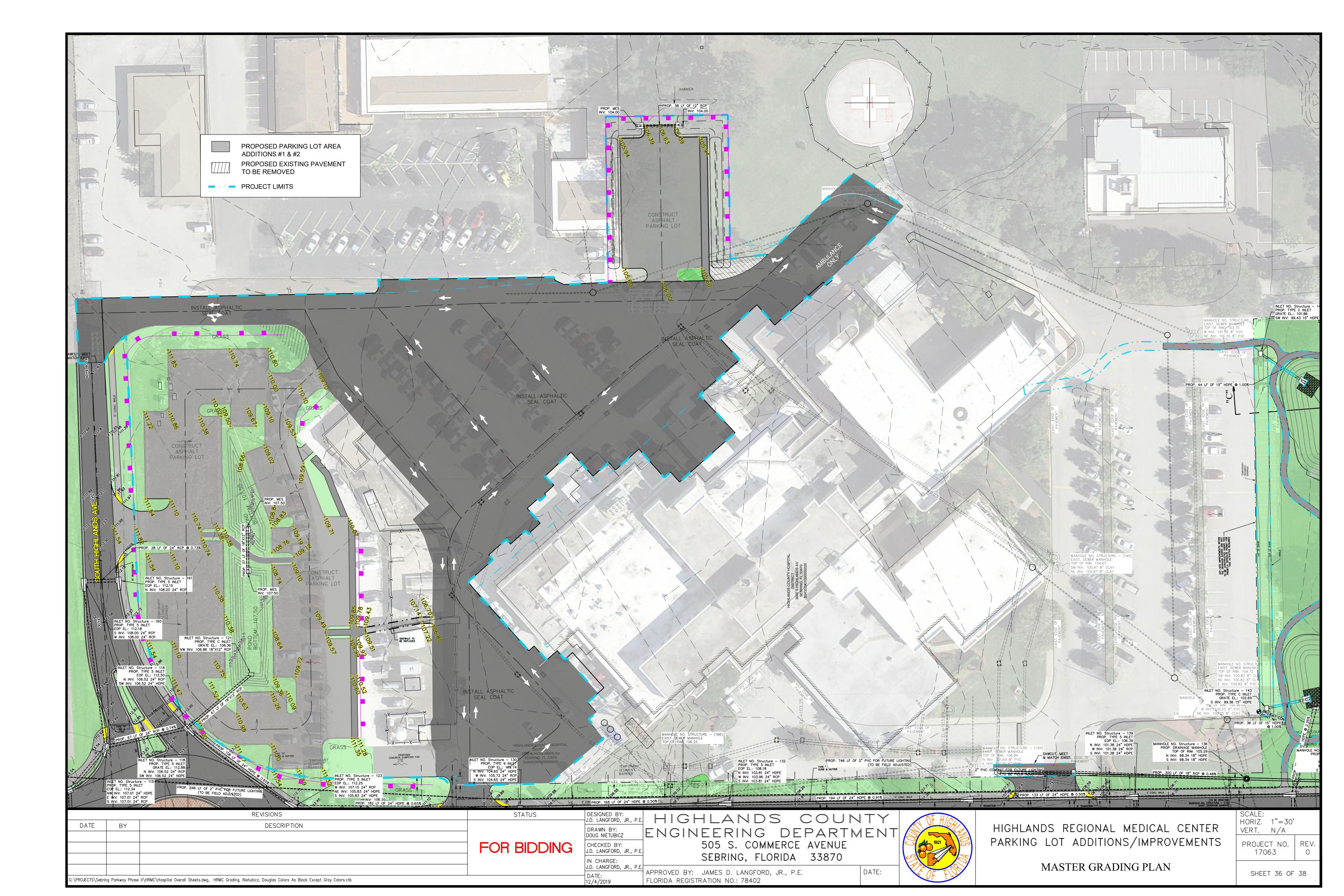
CROSS-SECTIONS

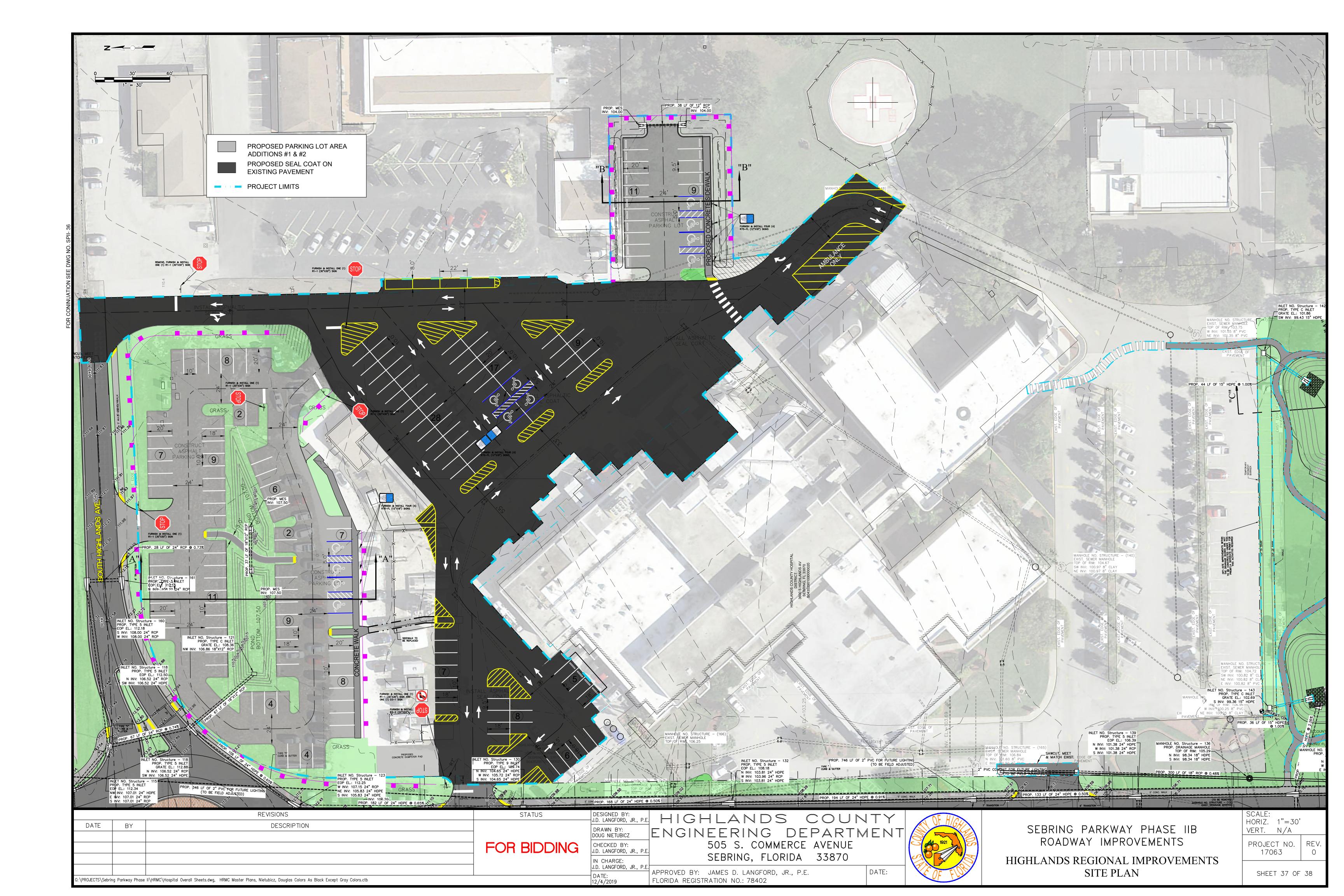


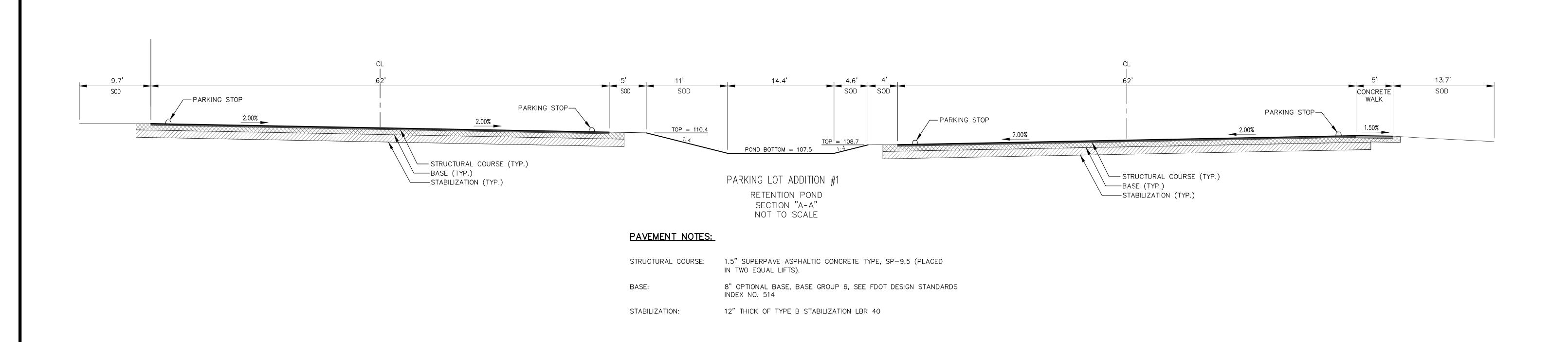
DATE:

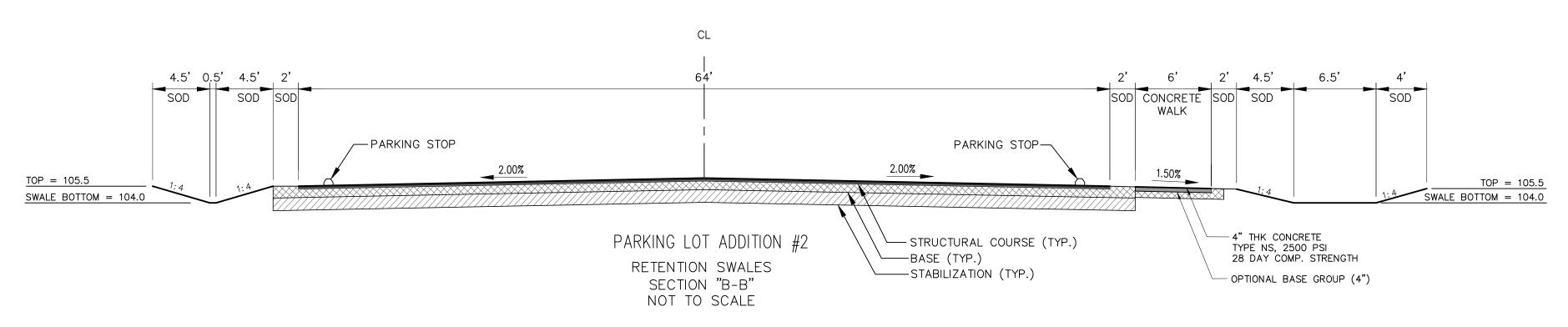
SEBRING PARKWAY PHASE IIB
ROADWAY IMPROVEMENTS
SOUTH HIGHLANDS AVENUE CROSS SECTION

	SCALE: HORIZ. 1"=8' VERT. 1"=8'	
	PROJECT NO. 17063	REV. O
1S	SHEET 35 OF	38









PAVEMENT NOTES:

BASE:

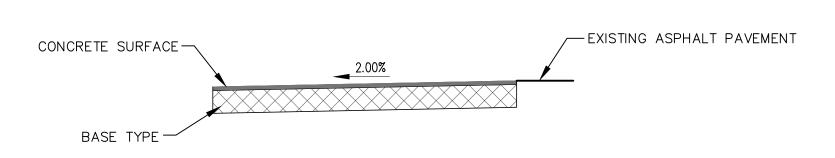
STRUCTURAL COURSE: 1.5" SUPERPAVE ASPHALTIC CONCRETE TYPE, SP-9.5 (PLACED

IN TWO EQUAL LIFTS).

8" OPTIONAL BASE, BASE GROUP 6, SEE FDOT DESIGN STANDARDS

INDEX NO. 514

STABILIZATION: 12" THICK OF TYPE B STABILIZATION LBR 40



CONCRETE DUMPSTER PAD

8" THICK CONCRETE TYPE NS 3,500 PSI MIN> 28 DAY COMPRESSION STRENGTH, W/6x6 W.W.M. OR 1 $\frac{1}{2}$ LB. POLYPROPYLENE FIBER MESH PER SQ. YD.

OPTIONAL BASE, BASE GROUP 9, 10"

		REVISIONS	STATUS	DESIGNED BY: J.D. LANGFORD, JR., P.E	HIGHLANDS COUP	
DATE	BY	DESCRIPTION				
				BRUCE DOREY	ENGINEERING DEPARTN	A E N
			FOR BIDDING	CHECKED BY: J.D. LANGFORD, JR., P.E	505 S. COMMERCE AVENUE	
				IN CHARGE:	SEBRING, FLORIDA 33870	
				J.D. LANGFORD, JR., P.E.	APPROVED BY: JAMES D. LANGFORD, JR., P.E.	DATE:
:\PROJECTS\Sebrin	g Parkway Phase	II\HRMC\Typical Sections — Hospital.dwg, HRMC Parking Lot XS For 2b, Nietubicz, Douglas Colors As Black Except Gray Colors.ctb	·	DATE:	FLORIDA REGISTRATION NO.: 78402	



HIGHLANDS REGIONAL MEDICAL CENTER PARKING LOT ADDITIONS/IMPROVEMENTS HIGHLANDS REGIONAL IMPROVEMENTS

17063 SHEET 38 OF	PROJECT NO.	VERT. N/A	HORIZ. N/A	SCALE:
0	REV.			