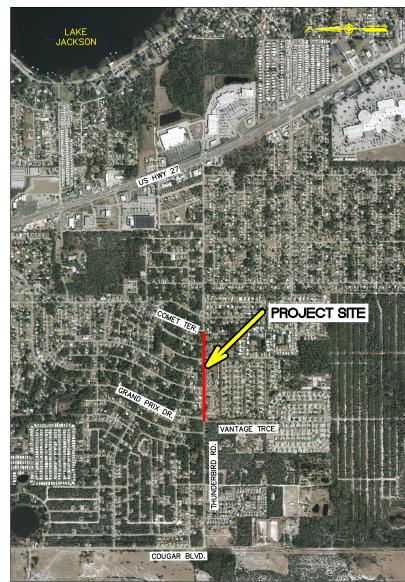
SHEET DESCRIPTION

- 1 COVER SHEET
- 2 LEGEND
- GENERAL NOTES, SPECIFICATIONS, & TYPICAL SECTION
- 4-7 PLAN
- 8 DETAILS
- 9-11 CROSS SECTIONS
- 12-16 MAINTENANCE OF TRAFFIC



PROJECT LOCATION MAP SCALE: 1" = 2.000"

- GOVERNING STANDARDS AND SPECIFICATIONS:

 1. FLORIDA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS DATED 2013, AS AMENDED BY CONTRACT DOCUMENTS. http://www.fdot.gov/roadway/FloridaGreenbook/FGB.shtm
- 2. FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2019-2020 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS AS AMENDED BY CONTRACT DOCUMENTS.
- 3, HIGHLANDS COUNTY TECHNICAL STANDARDS MANUAL, THROUGH RESOLUTION 14-15-60. http://cms2.revize.com/revize/highlandscounty/document_center/LDRS%20thru%20Ord%2017-18-15%20(7-25-18).pdf

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

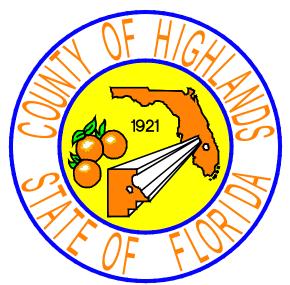
HIGHLANDS COUNTY BOARD OF COUNTY COMMISSIONERS CONSTRUCTION PLANS **FOR**

THUNDERBIRD ROAD EAST SIDEWALK EXTENSION HIGHLANDS COUNTY PROJECT NO. 15009 FINANCIAL PROJECT ID# 431343-1-58-01 (FEDERAL FUNDS)





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.



CLINTON HOWERTON, JR., P.E. COUNTY ENGINEER

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

RIGHT-OF-WAY WIDTH = 68' WIDTH APPROXIMATE PROJECT LENGTH = 1,812 LF (0.343 MILE) POSTED SPEED LIMIT = 45 MPH

UTILITY COMPANIES

COMCAST CABLE 3010 HERRING AVE. SEBRING, FL 33870 (863)273-8556

CENTURY LINK 924 MEMORIAL DR AVON PARK, FL 33825 (863)452-3185

HIGHLANDS COUNTY TRAFFIC 505 S. COMMERCE AVE. SEBRING, FLORIDA 33870 EDDIE CARDONA (863)402-6877

DUKE ENERGY-FLORIDA 2051 OLD SCENIC HWY. LAKE WALES, FL 33898 (863)678-4476

THUNDERBIRD ROAD EAST SIDEWALK EXTENSION							
HIGHLANDS COUNTY PROJECT NO. 15009							
BASEBID							
TASK NO.	ITEM DESCRIPTION	QUANTITY	UNIT				
1	MOBILIZATION	1	LS				
2	BONDS & INSURANCE	1	LS				
3	CONSTRUCTION SURVEY STAKING INCLUDING A S-BUILT	1	LS				
4	TESTING	1	LS				
5	MAINTENANCE OF TRAFFIC	1	LS				
6	SEDIMENT BARRIER TEMPORARY	300	LF				
7	CLEARING AND GRUBBING INCLUDING TREE REMOVAL	1	LS				
8	REMOVAL OF EXISTING ASPHALT PAVEMENT ROADWAY	81	SY				
9	MAILBOX REMOVE AND RELOCATE	1	EA				
10	REGULAR EXCAVATION	1	LS				
11	STABILIZATION, TYPE B, LBR 40, 12" COMPACTED THICKNESS SHOULDER & SIDE STREET CONSTRUCTION	1,400	SY				
12		100	SY				
13	OPTIONAL BASE, BASE GROUP 6, 8" COMPACTED THICKNESS SUPERPAVE ASPHALTIC CONCRETE, 1 1/2" THICK, RAP 30% MAXIMUM	8	TN				
14	INLET, DITCH BOTTOM, TYPE C	16	EA				
15	MANHOLE	10	EA EA				
16	18" x 12" REINFORCED CONCRETE PIPE (RCP)	48	LF				
17	15" REINFORCED CONCRETE PIPE (RCP)	40	LF				
18	15" HIGH DENSITY POLYETHYLENE PIPE (HDPE)	1,360	LF				
19	18" HIGH DENSITY POLYETHYLENE PIPE (HDPE)	1,300	LF				
20	MITERED END SECTION	3	EA				
21	CONCRETE DISSIMILAR COLLAR	2	EA				
22	SIDEW ALK CONCRETE, 4" THICK, 3,000 PSI MIN	920	SY				
23	CONCRETE DRAINAGE STRUCTURE, SEE DETAILS	2	EA				
24	DETECTABLE WARNING, YELLOW, EMBEDDED	140	SF				
25	PERFORMANCE TURF (SOD)	4,200	SY				
26	SINGLE POST SIGN, F & I, STOP (R1-1), 30" x 30" & TWO (2), D3-1	7	AS				
27	SINGLE POST SIGN, F & I, SPEED LIMIT, 45 MPH (R2-1), 24" x30"	1	AS				
28	TEMPORARY PAINTED PA VEMENT MARKINGS, STD, WHITE, SOLID, 12"	400	LF				
29	TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 24"	70	LF				
30	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	400	LF				
31	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	70	LF				

	PROJECT CONTROL POINTS					
Point Number	Easting	Northing	Elevation	Description		
5000	493225.3650	1151256.3750'	161.51'	Set Iron Rod w/ cap stamped "Highlands County"		
5001	492398.4320 ^t	1151256.2110'	164.68'	Set Iron Rod w/ cap stamped "Highlands County"		
5002	491351.9530'	1151278.2980'	167.34'	Set Iron Rod w/ cap stamped "Highlands County"		
5003	490401.6090'	1151276.8390'	169.60'	Set Iron Rod w/ cap stamped "Highlands County"		

		REVISIONS	
DATE	BY	DESCRIPTION	
2-19-19	BWD	REVISED PER FDOT COMMENTS]
]
			1
			1

G:\PROJECTS\2015\15009 Thunderbird Rd Sidewalk - Comet to Grand Prix\All Drawings\Cover General Notes Details 15009 Thunderbird Rd.dwg, EAST COVER, Acad 1-7 Black.ctb

FOR BID

STATUS

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

HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870

368 S. COMMERCE AVE.

BOB BOGGUS

(863)471-5100

SEBRING, FLORIDA 33870

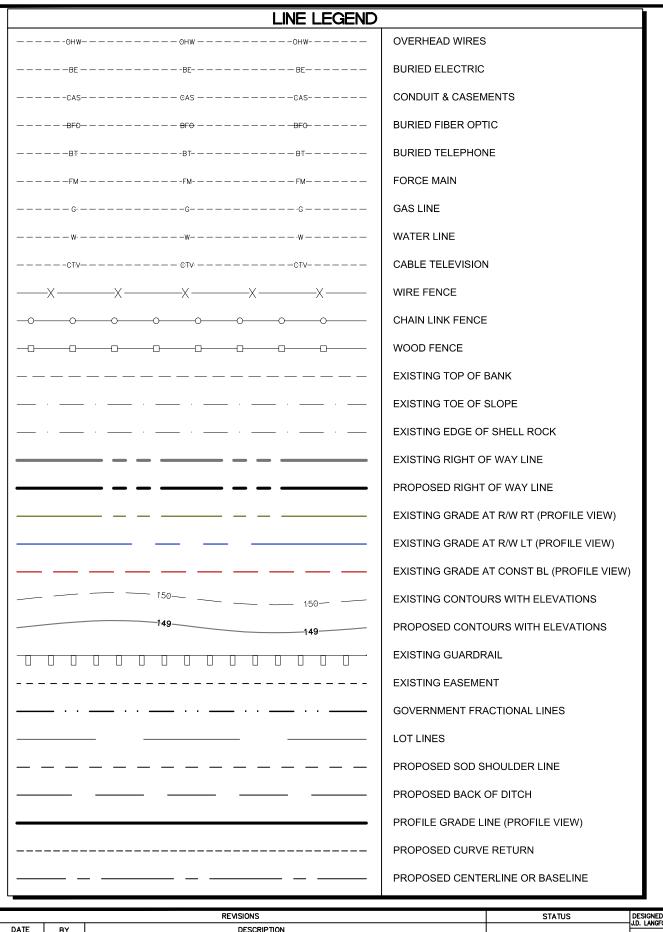
APPROVED BY: JAMES D. LANGFORD, JR., P.E. FLORIDA REGISTRATION NO.: 78402

THUNDERBIRD ROAD EAST SIDEWALK EXTENSION

SCALE: HORIZ. VERT.	N/A N/A	
PROJECT 1500		RE'

SHEET 1 OF 16

COVER SHEET



SYMBOL LEGEND				
•	BENCHMARK			
•	CONCRETE MONUMENT			
0	IRON ROD OR IRON PIPE			
•	NAIL AND DISK			
	CLEANOUT			
EM	ELECTRIC METER			
₽E	FLAG ELECTRIC			
₽FO	FLAG FIBER OPTIC			
▶•	FLAG GAS			
⊳ss	FLAG SEWER			
P	FLAG TELEPHONE			
P*	FLAG WATER			
*	FIRE HYDRANT			
8	GAS VALVE			
EB	ELECTRIC BOX			
⊞	TELEPHONE BOX			
l ™	TELEVISION BOX			
TS	TRAFFIC SIGNAL BOX			
/xw\	PEDESTRIAN CROSSWALK			
\$	LIGHT POLE			
0	MANHOLE DRAINAGE			
W W	MANHOLE OTHER			
S	MANHOLE SEWER			
(T)	MANHOLE TELEPHONE			
△	MONITORING WELL			
<i>₽</i>	UTILITY POLE			
0	WATER METER			
₩	WATER VALVE			
00	WELL			
+0.0	EXISTING GRADE SHOT			
+0.00	PROPOSED ELEVATIONS			
0	BOLLARD			
	MAIL BOX			
-	SIGN			
Ð	MITERED END SECTION			
$ $ \leftarrow	GUY ANCHOR			

	ABBREVIATIONS
A.D.	ALGEBRAIC DIFFERENCE
BFS	BEGIN FULL SUPER
BL	BASELINE
BNC	BEGIN NORMAL CROWN
CMP	CORRUGATED METAL PIPE
CONC.	CONCRETE
CONST.	CONSTRUCTION
EFS	END FULL SUPER
ELEV	ELEVATION
ENC	END NORMAL CROWN
EXIST.	EXISTING
HDPE	HIGH DENSITY POLYETHYLENE PIPE
LC	LONG CHORD
LT	LEFT
MES	MITERED END SECTION
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PGL	PROFILE GRADE LINE
PROP.	PROPOSED
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
STA	STATION
TVD	l —

	TREE LEGEND				
	CEDAR TREE				
	CITRUS TREE				
	CYPRESS TREE				
器	MAGNOLIA TREE				
	MAPLE TREE				
£83	OAK TREE				
*	PALM TREE				
*	PINE TREE				
(3)	TREE				
	TREE A				
*	TREE B				
*	TREE C				
**	TREE D				

DRAINAGE	LEGEND
----------	---------------

EXISTING PIPES & STRUCTURES

PROPOSED PIPES & STRUCTURES

DESIGNED BY: J.D. LANGFORD, P.E.	REVISIONS		
DRAWN BY:	DESCRIPTION	BY	DATE
DOUG NIETUBICZ			
CHECKED BY: J.D. LANGFORD, P.E.			
J. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			

G:\PROLECTS\2015\15009 Thunderbird Rd Sidewalk - Cornet to Grand Prix\All Drawings_Details Legend 15009 Thunderbird Rd Sidewalk.dwg, East Legend, Dorey, Bruce Colors As Black Except Gray Colors.ctb

HIGHLANDS COUNTY
ENGINEERING DEPARTMENT
505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870

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

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

DATE: 11/15/2019



DATE:

TYP TYPICAL

THUNDERBIRD ROAD EAST SIDEWALK EXTENSION

LEGEND

SCALE: HORIZ. VERT. N/A	
PROJECT NO. 15009	RE C
SHEET 2 OF	16

GENERAL NOTES AND SPECIFICATIONS

GENERAL CONSTRUCTION NOTES

- 1. The Contractor shall be responsible for furnishing all material and labor to construct the facility as shown and described in the construction documents.
- The Contractor shall be responsible for obtaining all required construction bonds prior to construction.
- 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.
- 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
- Contractor shall submit a construction schedule to the Highlands County Project Manager prior to commencement of construction.
- 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
- All wash water (concrete trucks, vehicle cleaning, equipment cleaning, etc.) shall be detained and properly treated and disposed. 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 protection.
- The use of motor oils and other petroleum based or toxic liquids for dust suppression operations is prohibited.
- 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.
- Stabilization practices should be initiated as soon as practical, but in no case more than 7 days where construction has temporarily
- All materials spilled, dropped, washed or tracked from vehicles onto roadways or into storm drains must be removed as soon as possible.
- 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 North American Vertical Datum of 1988 (NAVD 88).
- 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.
- Grades shown are the finished grades, unless otherwise indicated.
- The Contractor shall remove survey stakes and erosion control items prior to the completion of the contract.

 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.

- 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 call 811 to 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 to limit the utility companies which the contractor may wish to notify.

 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 ground greas of overhead transmission lines or underground utilities.
- Prior to commencement of any excavation, the contractor shall comply with Florida Statute 553.851 for the protection of underground gas pipelines.
- 5. 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. Contractor is responsible for repairing any existing concrete or asphalt areas that are disturbed during construction.

PAVEMENT MARKING AND SIGNAGE

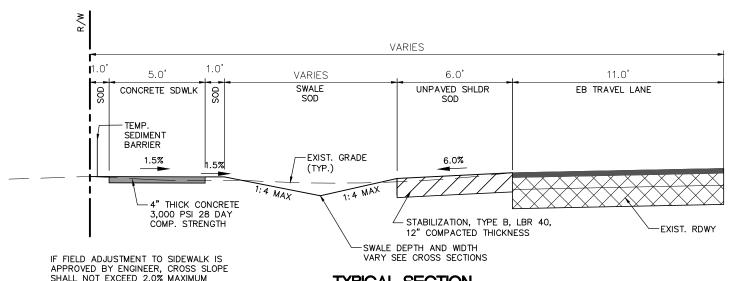
- Stop bars shall be 24" white stripes.
- 2. Temporary pavement markings shall be provided by the end of each day's operation.
- All pavement markings and signage shall be installed in accordance with the Manual on Uniform Traffic Control Devices (MUTCD), 2009
- 4. Sign substrate shall be aluminum.
- Traffic signs shall be mounted on 3" diameter post with "Z" bar brackets.
- Sign post underground support shall be 6" aluminum "Z" bar brackets (no concrete).

SOD

- 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.
- 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.
- All areas within the project site shall be sodded unless indicated in these construction plans.

- 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.
- The Highlands County Project Manager shall inspect all construction and is authorized to call to the attention of the Contractor any failure of work or materials to conform with the plans and specifications.
- 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.

	THUNDERBIRD ROAD EAST SIDEWALK EXTENS	
	CONTRACTOR REQUIRED QUALITY CONTROL	MATERIALS TESTING
Sidewall	Construction: IN-SITU SOIL TESTING REQUIREM	ENTS (6" COMPACTED THICKNESS)
TEST NAME	QUALITY CONTROL	ACCEPTANCE
DENSITY	ONE (1) PER LIFT, TEN (10) TOTAL	Minimum density of 95% of AASHTO T99 density.
Construction Method: Compact a	rea directly under the sidewalk and one (1) foot beyon	nd each side of the sidewalk to a depth of six (6) inches.
Roadway Full Depth Cor	struction: TYPE B STABILIZATION (LBR 40) TEST	NG REQUIREMENTS (12" COMPACTED THICKNESS)
TEST NAME	QUALITY CONTROL	ACCEPTANCE
DENSITY	TWO (2) PER LIFT, TWO (2) TOTAL	Minimum density of 98% of the Modified Proctor maximum
		density as determined by FM 1-T 180, Method D
THICKESS	TWO (2) PER LIFT, TWO (2) TOTAL	Compacted lift thickness = 12", tolerance = 0.5"
	d: Construct the stabilization in one (1) 12" lift with a	
NOTE: Contractor shall perform a	at minimum one LBR per material type. County shall p	erform verfication testing as necessary.
Roadway Full Depth	Construction: OPTIONAL BASE GROUP 6 TESTING	REQUIREMENTS (8" COMPACTED THICKNESS)
TEST NAME	QUALITY CONTROL	ACCEPTANCE
DENSITY	ONE (1) PER LIFT, ONE (1) TOTAL	Minimum density of 98% of the Modified Proctor maximum
		density as determined by FM 1-T 180, Method D
THICKESS	TWO (2) PER LIFT, TWO (2) TOTAL	Compacted lift thickness = 8", tolerance = 0.5"
Optional Base Group 6 Construc	tion Method: Construct the base in one (1) lift with a	compacted lift thickness of eight (8) inches.
Roadway Ful	I Depth Construction: ASPHALT TESTING REQUIR	EMENTS (1.5" COMPACTED THICKNESS)
TEST NAME	QUALITY CONTROL	ACCEPTANCE
THICKESS	TWO (2) PER LIFT, TWO (2) TOTAL	Compacted lift thickness = 1.5", Tolerance = 0.3"
Asphalt Construction Method: As	phalt shall be placed in one (1) lift with a compacted	
Shoulder Construc	tion: TYPE B STABILIZATION (LBR 40) TESTING R	EQUIREMENTS (12" COMPACTED THICKNESS)
TEST NAME	QUALITY CONTROL	ACCEPTANCE
DENSITY	ONE (1) PER LIFT. TEN (10) TOTAL	Minimum density of 95% of the Modified Proctor maximum
		density as determined by FM 1-T 180, Method D
THICKESS	ONE (1) PER LIFT, TEN (10) TOTAL	Compacted lift thickness = 12", tolerance = 0.5"
	d: Construct the stabilization in one (1) 12" lift with a	
NOTE: Contractor shall perform a	t minimum one LBR per material type. County shall p	erform verfication testing as necessary.



TYPICAL SECTION CONCRETE SIDEWALK CONSTRUCTION FROM STA 28+08.44 TO STA 46+20.04

	REVISIONS				
DATE	BY	DESCRIPTION			
2-19-19	BWD	REMOVED NOTE PER FDOT COMMENTS			
G: \PROJECTS\201	15\15009 Thunde	erbird Rd Sidewalk — Comet to Grand Prix\All Drawinas\Cover General Notes Details 15009 Thunderbird Rd.dwa. GENERAL NOTES EAST, Dorey, Bruce Acad 1—7 Black	k.ctb		

DESIGNED BY: J.D. LANGFORD, P.E. DRAWN BY: DOUG NIETUBICZ CHECKED BY: J.D. LANGFORD, P.E. FOR BID IN CHARGE: J.D. LANGFORD, P.E.

STATUS

HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE

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

SEBRING, FLORIDA 33870

DATE:

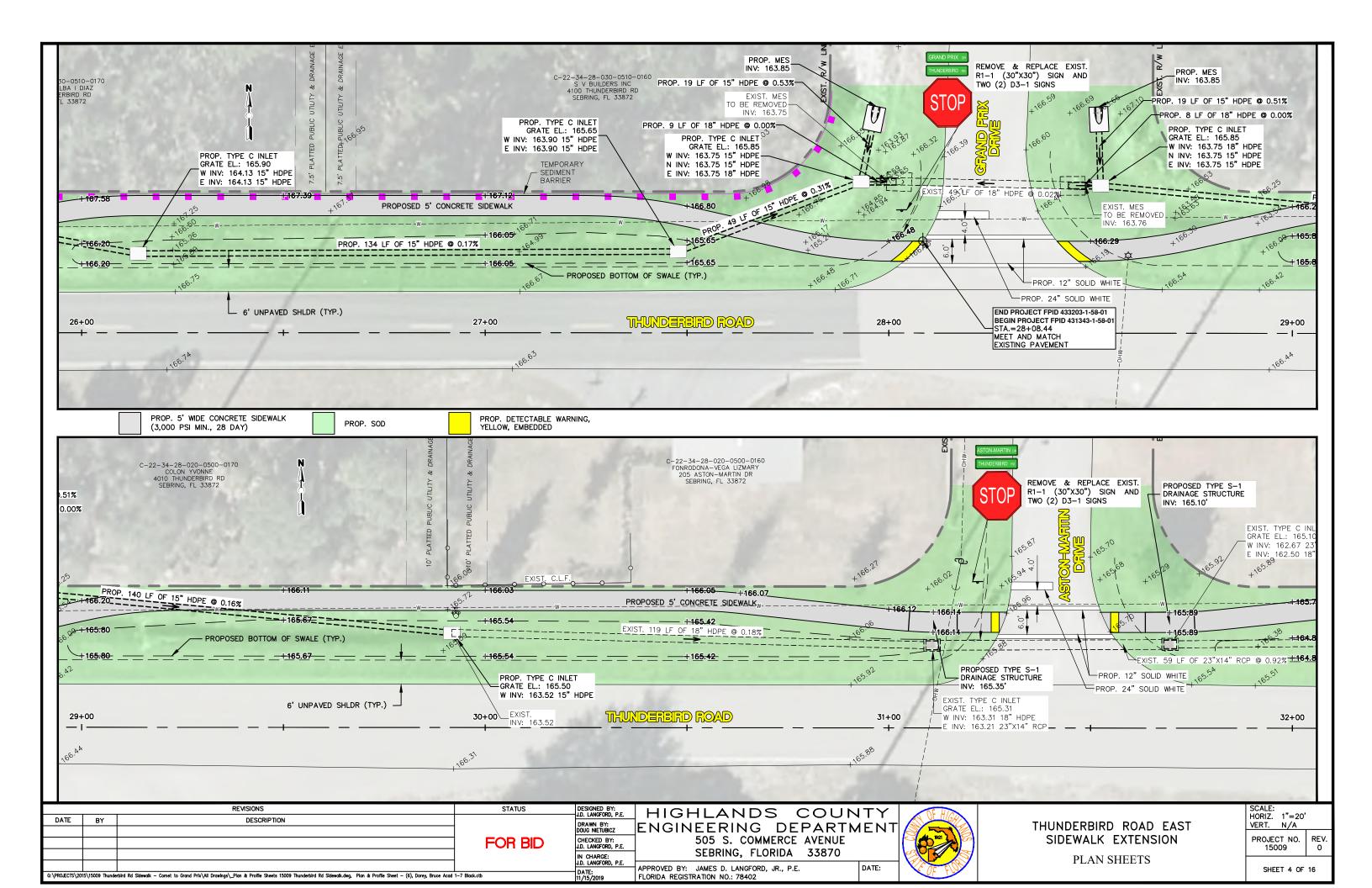
THUNDERBIRD ROAD EAST SIDEWALK EXTENSION

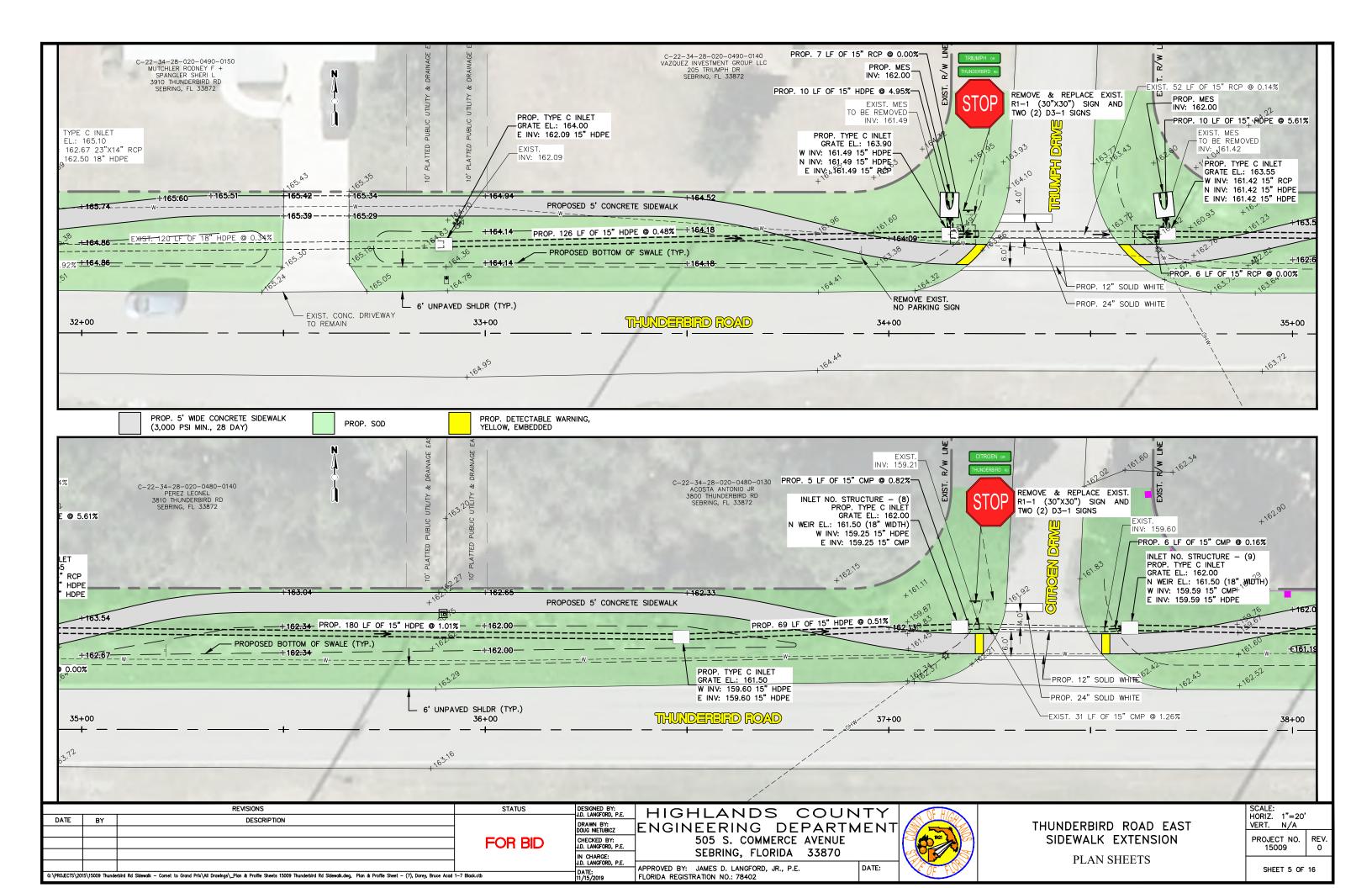
HORIZ. N/A VFRT. N/A PROJECT NO. 15009

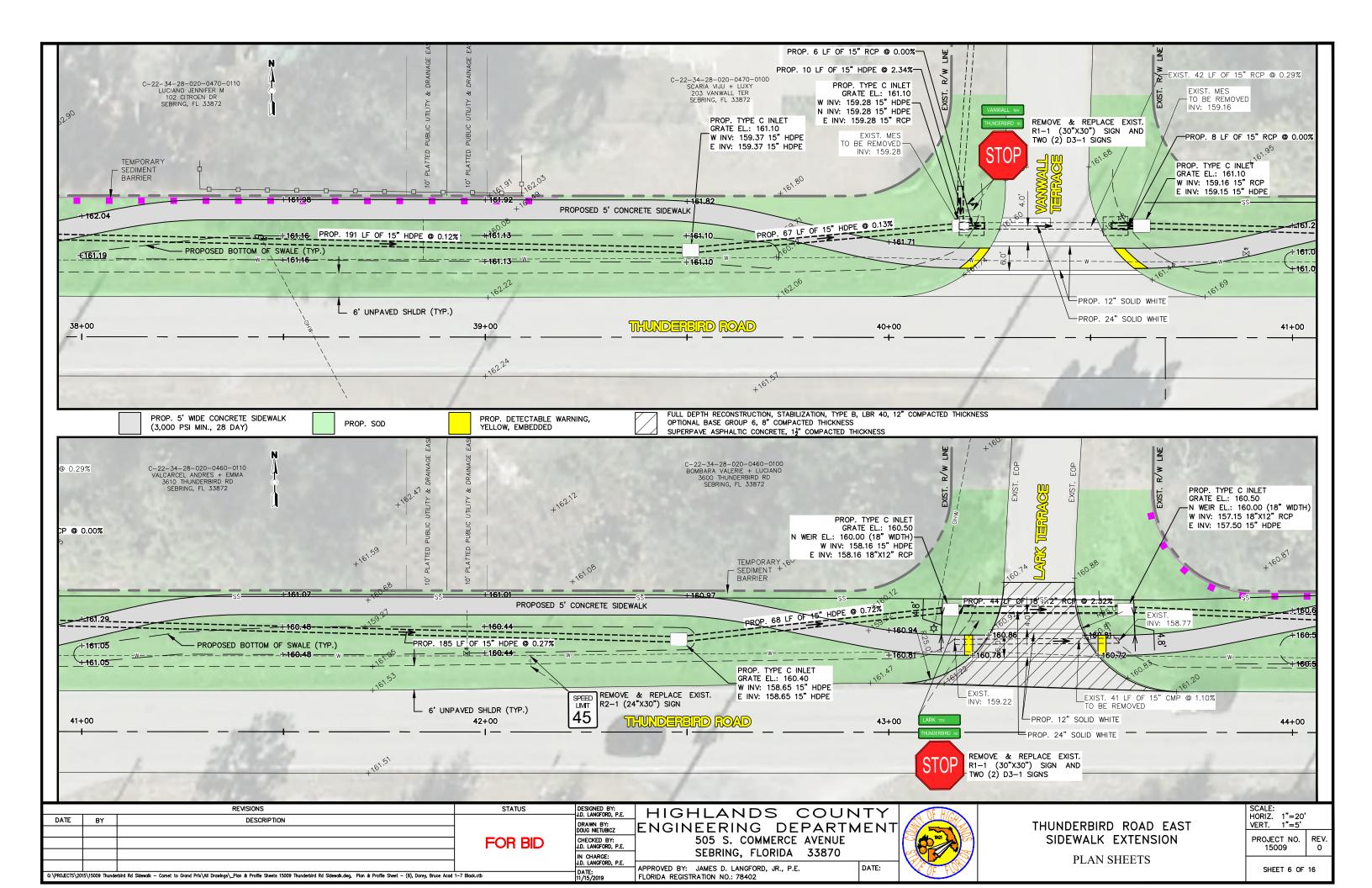
GENERAL NOTES & QUANTITIES

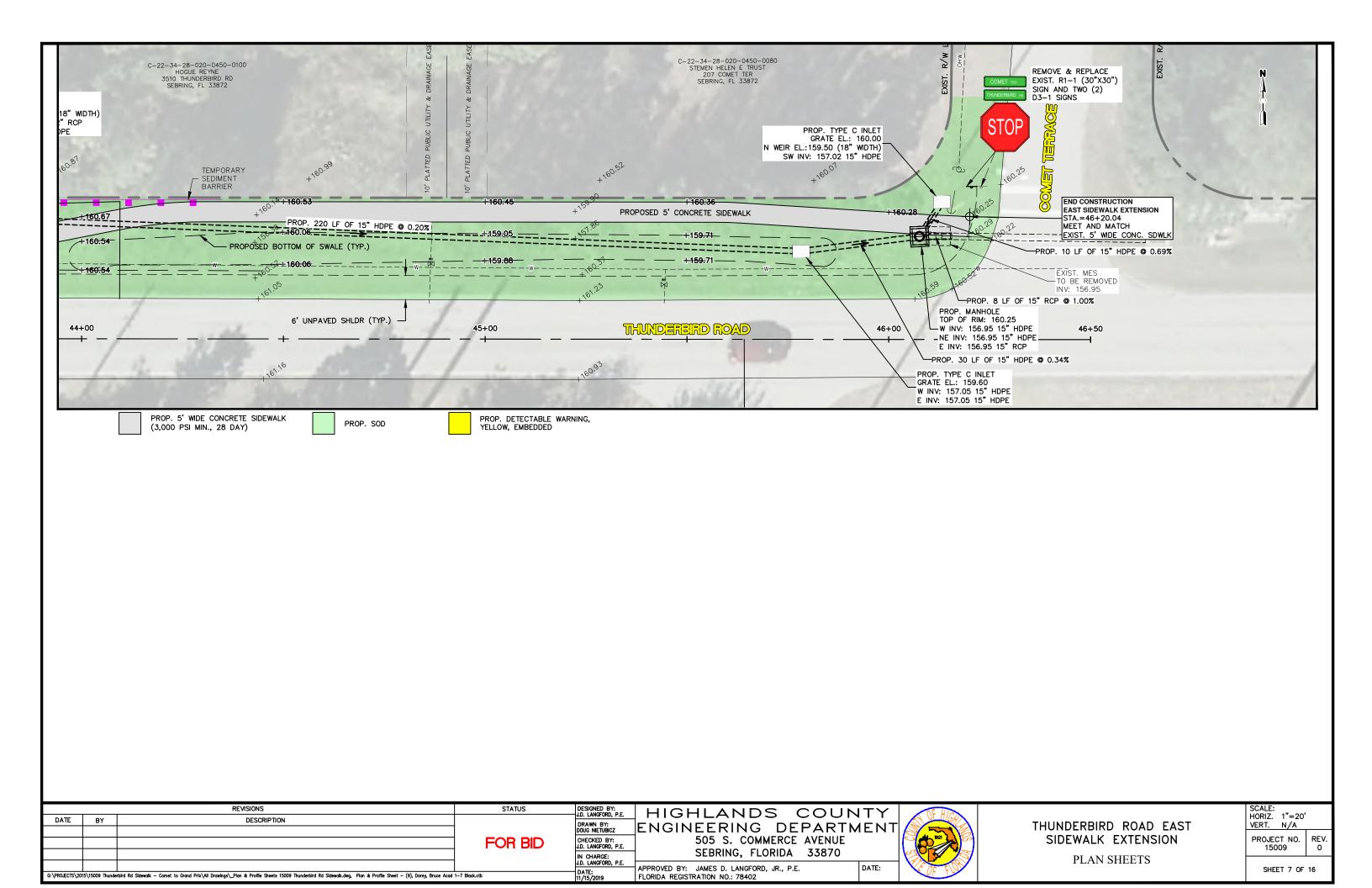
SHFFT 3 OF 16

REV.

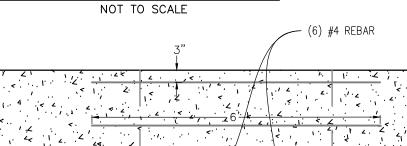


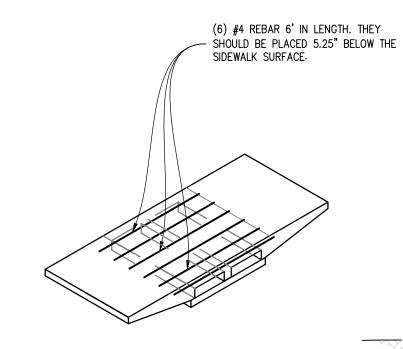


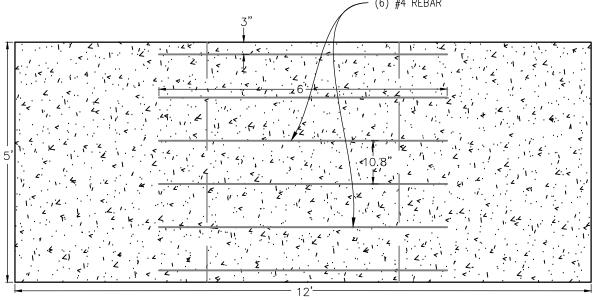


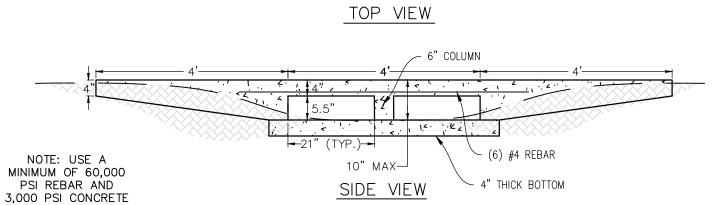


DRAINAGE STRUCTURE S-1









REVISIONS				
DATE	BY	DESCRIPTION		
			l	

G:\PROJECTS\2015\15009 Thunderbird Rd Sidewalk - Cornet to Grand Prix\All Drawings_Details Legend 15009 Thunderbird Rd Sidewalk.dwg, East SW Struct Detail, Dorey, Bruce Colors As Black Except Gray Colors.ctb

DESIGNED BY: J.D. LANGFORD, P.E. DRAWN BY: DOUG NIETUBICZ CHECKED BY: J.D. LANGFORD, P.E. FOR BID IN CHARGE: J.D. LANGFORD, P.E.

DATE: 11/15/2019

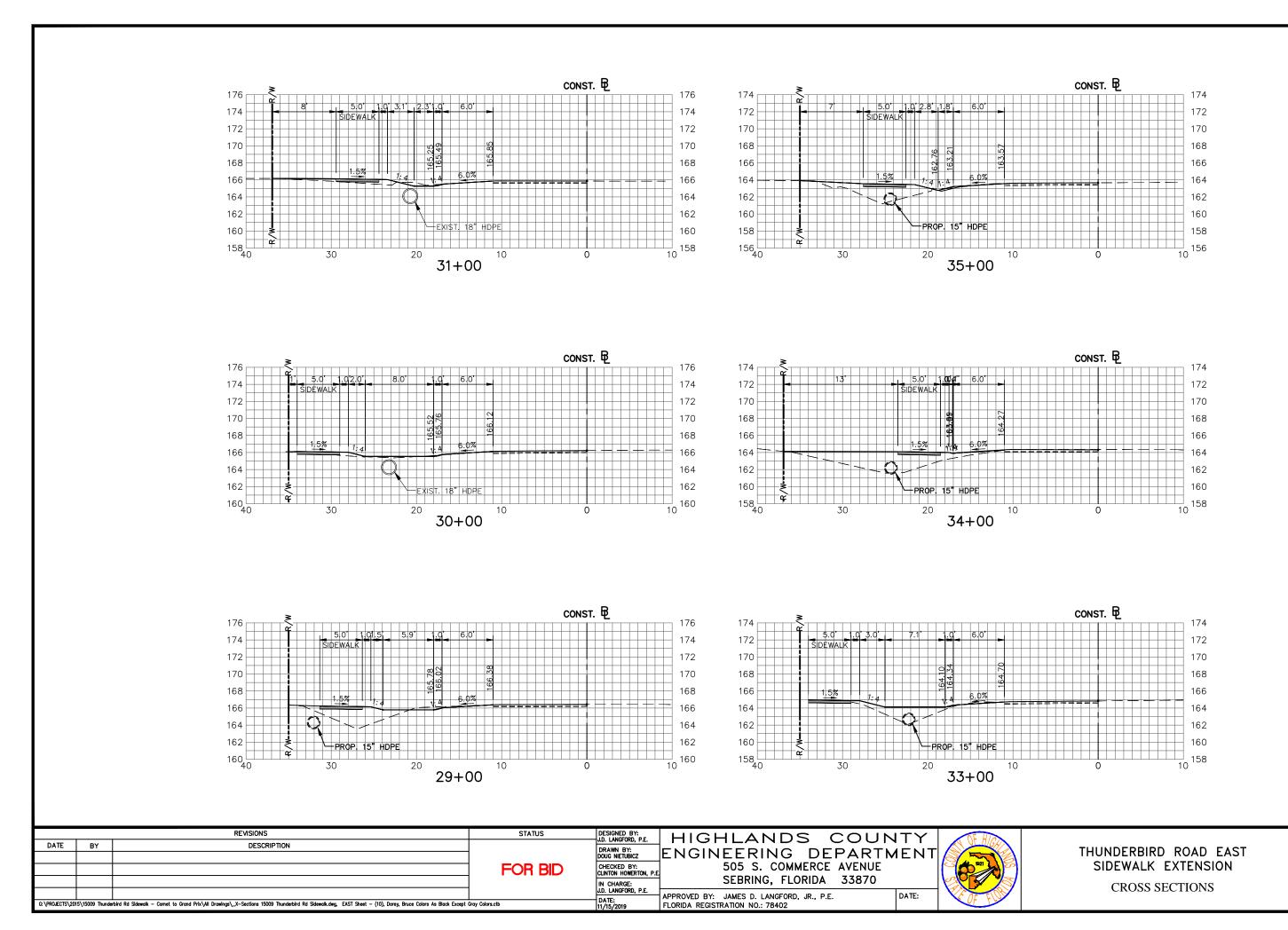
STATUS

HIGHLANDS COUNTY ENGINEERING DEPARTMENT
505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870 APPROVED BY: JAMES D. LANGFORD, JR., P.E. FLORIDA REGISTRATION NO.: 78402 DATE:



THUNDERBIRD ROAD EAST SIDEWALK EXTENSION **DETAILS**

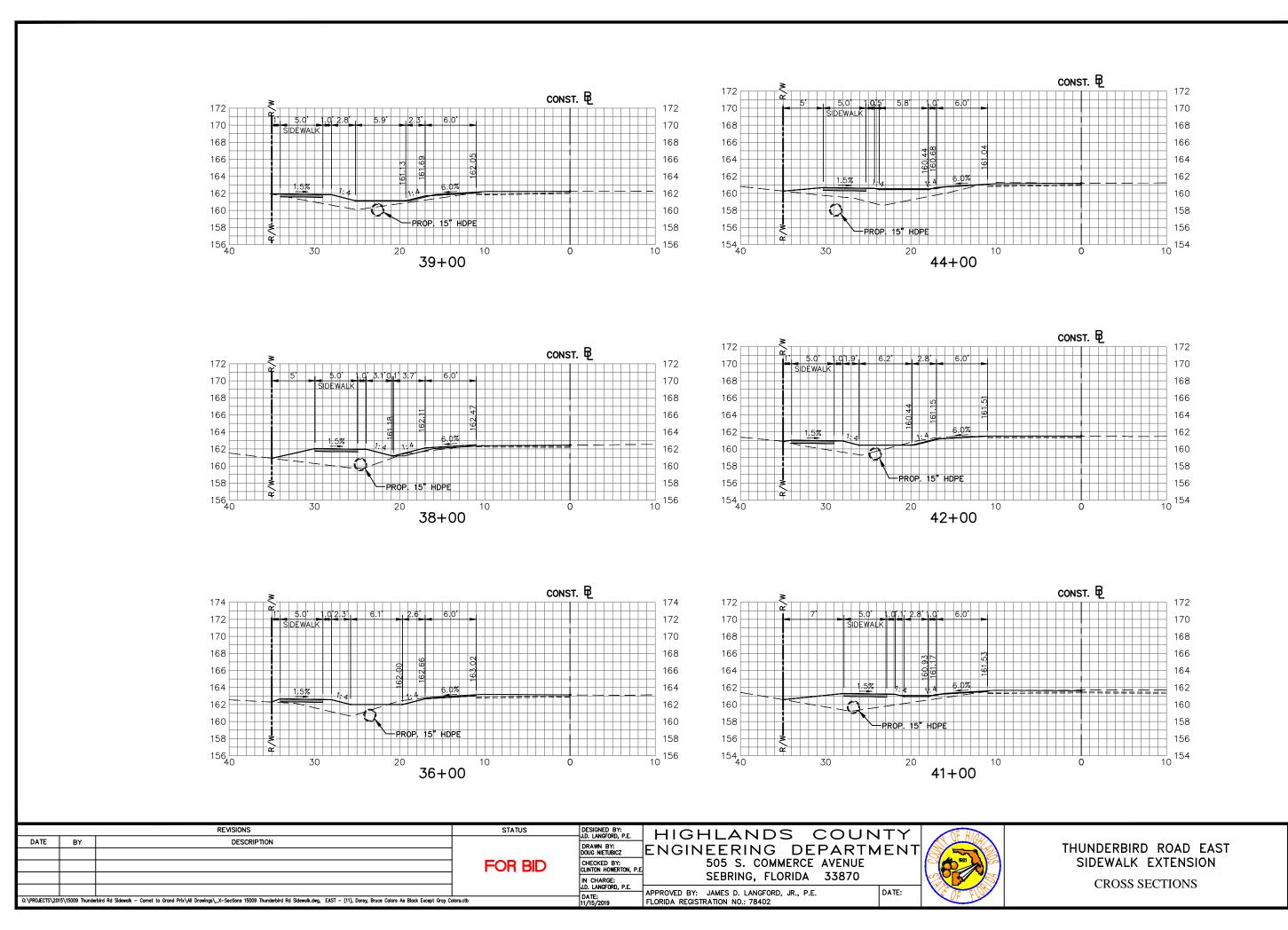
SCALE: HORIZ. 1"=5' VERT. N/A	
PROJECT NO. 15009	RE 0
SHFFT 8 OF	16



SCALE: HORIZ. 1"=10' VERT. 1"=10'

PROJECT NO. 15009

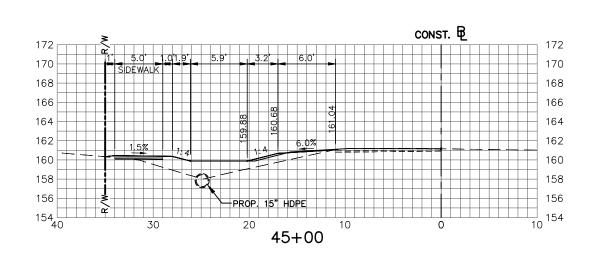
SHEET 9 OF 16



SCALE: HORIZ. 1"=10' VERT. 1"=10'

PROJECT NO. 15009

SHEET 10 OF 16

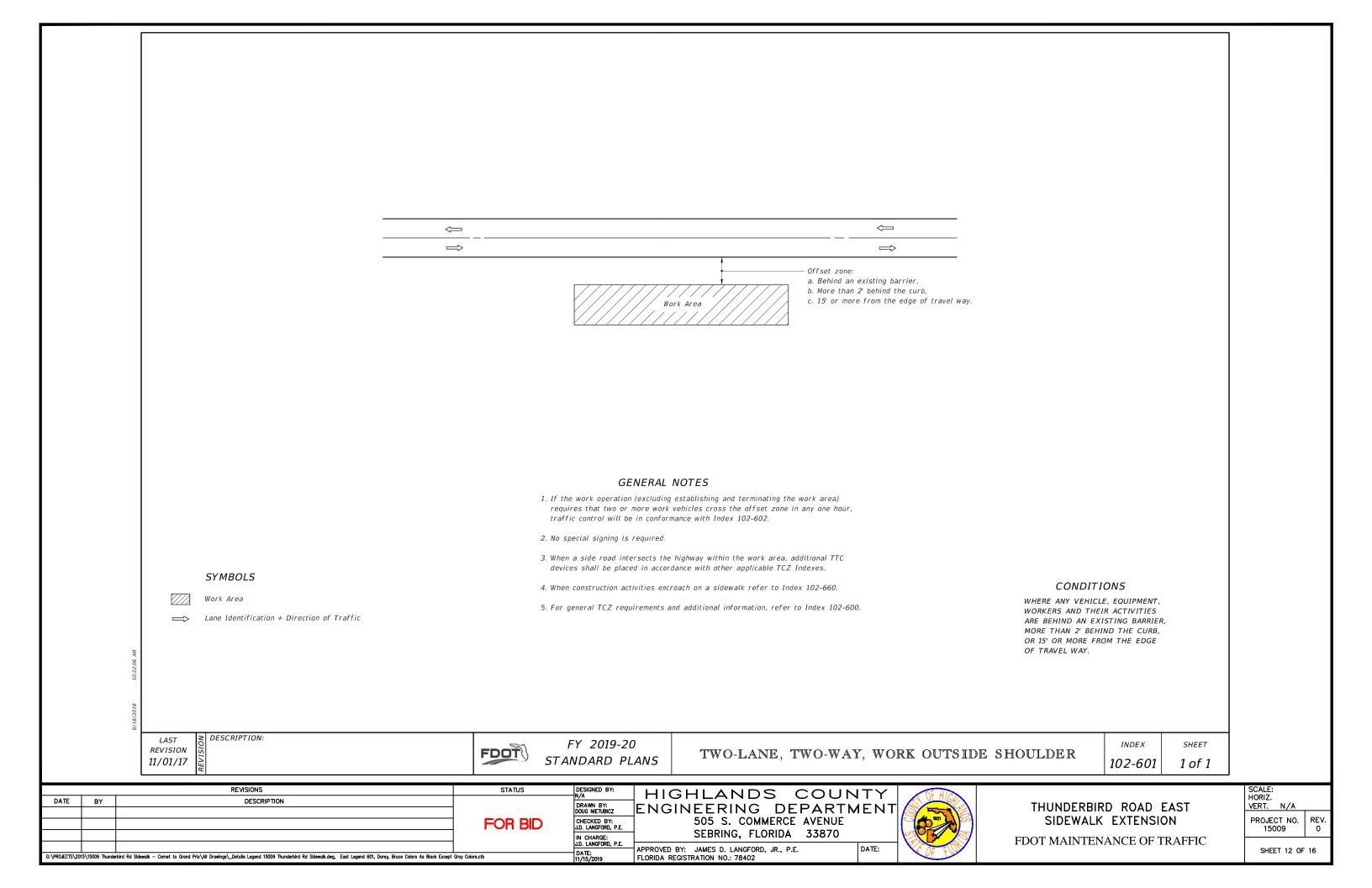


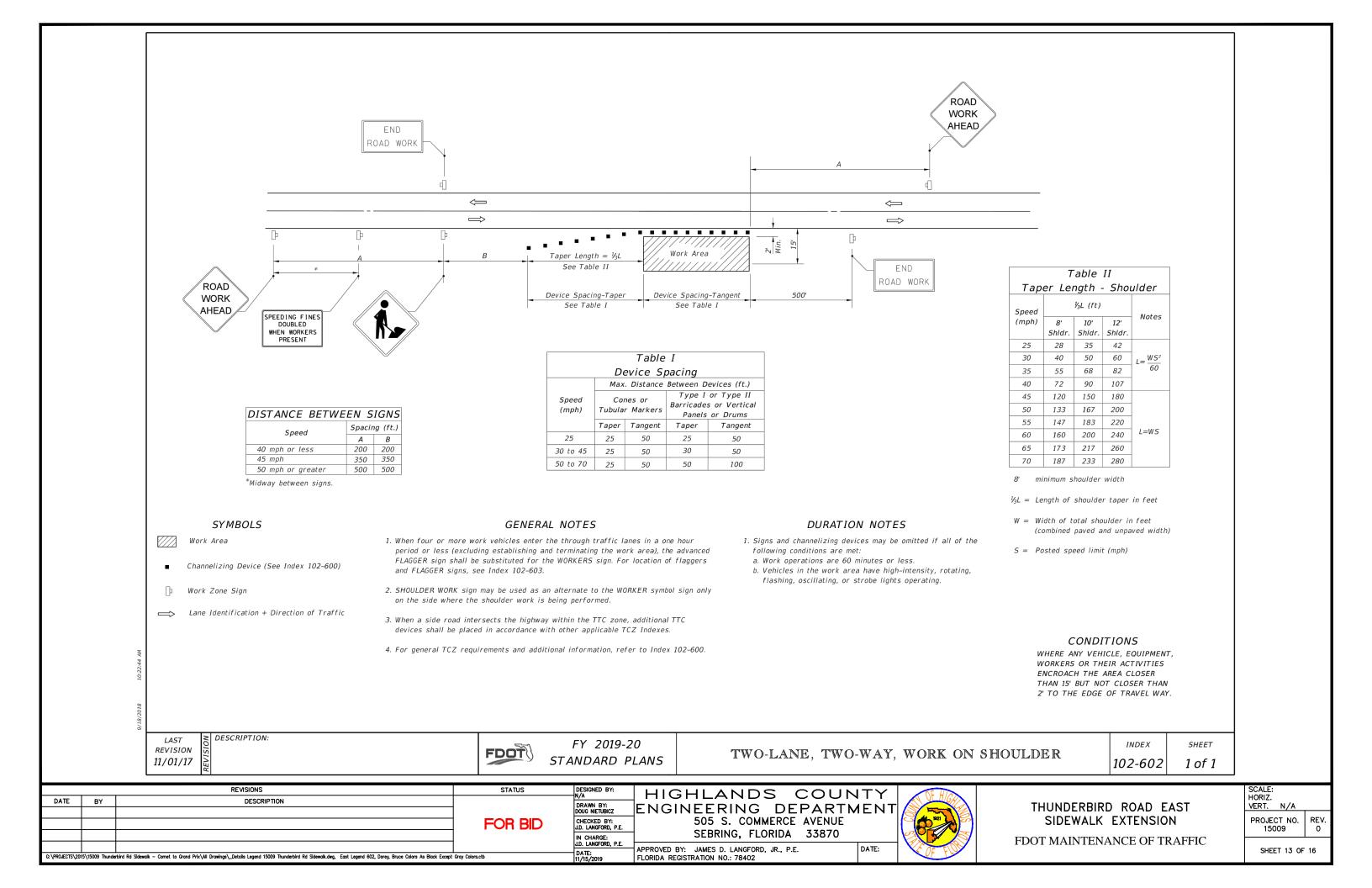
REVISIONS			STATUS	DESIGNED BY: J.D. LANGFORD, P.E.	HIGHLANDS C	
DATE	BY	DESCRIPTION				
				DOUG NIETUBICZ	ENGINEERING DEP	
			FOR BID	CHECKED BY: CLINTON HOWERTON, P.E.	505 S. COMMERCE A	
			1 011 515	IN CHARGE:	SEBRING, FLORIDA 3	
				J.D. LANGFORD, P.E.	APPROVED BY: JAMES D. LANGFORD, JR., P.E.	
G:\PROJECTS\2015\15009 Thunderbird Rd Sidewalk - Comet to Grand Prix\All Drawings_X-Sections 15009 Thunderbird Rd Sidewalk.dwg, EAST - (12), Dorey, Bruce Colors As Black Except Gray Colors.ctb			TIDAIF:	FLORIDA REGISTRATION NO.: 78402		

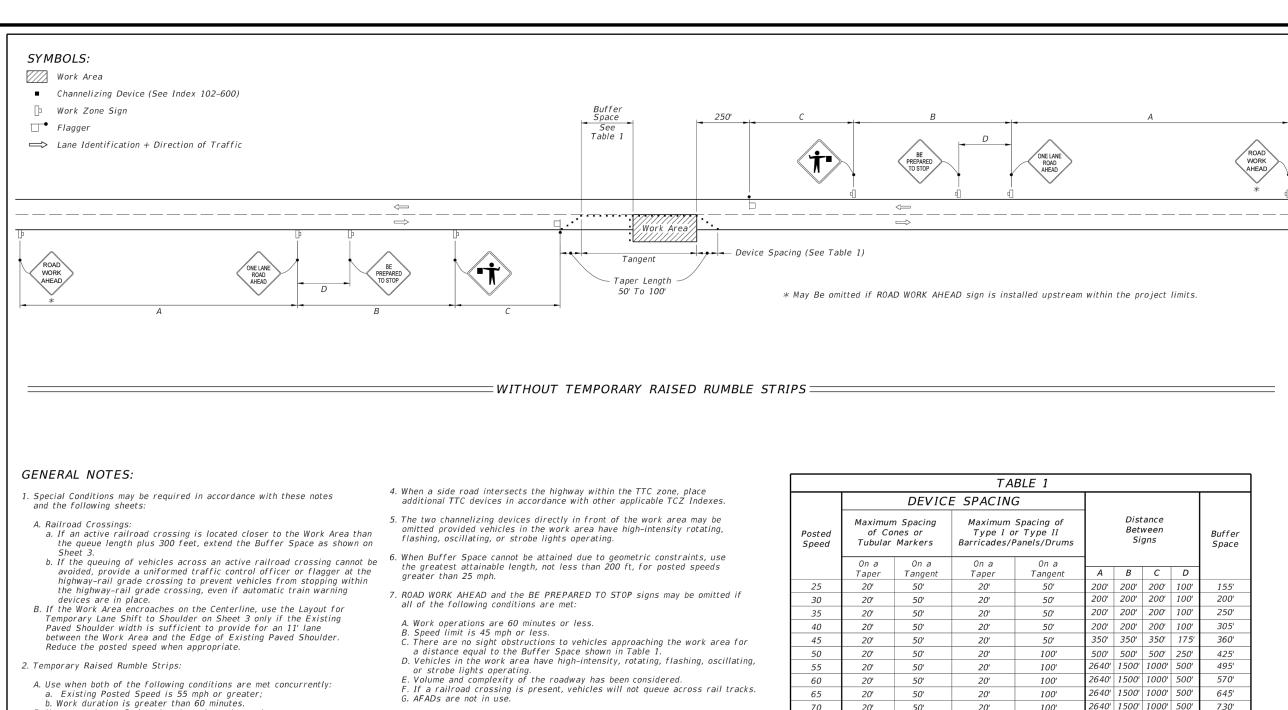
NDS COUNTY NG DEPARTMENT COMMERCE AVENUE G, FLORIDA 33870 DATE:

THUNDERBIRD ROAD EAST SIDEWALK EXTENSION CROSS SECTIONS

	1"=10' 1"=10'	
PROJEC 1500		REV 0
SHEE	T 11 OF	16







B. Use a consistent Strip color throughout the work zone. C. Place each Rumble Strip Set transversely across the lane at locations

D. Use Option 1 or Option 2 as shown on Sheet 2. Use only one option throughout work zone.

3. Additional one-way control may be provided by the following means:

A. Flag-carrying vehicle; B. Official vehicle;

. Pilot vehicles:

D. Traffic signals.

When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times. 8. See Index 102-600 for general TCZ requirements and additional information.

9. Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specifications Section 102, 990 and the APL vendor drawings.

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

CONDITIONS

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

LAST REVISION 11/01/17 DESCRIPTION:

REVISIONS

DESCRIPTION

FDOT

FY 2019-20 STANDARD PLANS

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

INDEX 102-603

SHEET 1 of 3

DATE BY

FOR BID

STATUS

DESIGNED BY: DRAWN BY: DOUG NIETUBICZ CHECKED BY: J.D. LANGFORD, P.E. IN CHARGE: J.D. LANGFORD, P.E.

DATE: 11/15/201

HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870



THUNDERBIRD ROAD EAST SIDEWALK EXTENSION FDOT MAINTENANCE OF TRAFFIC

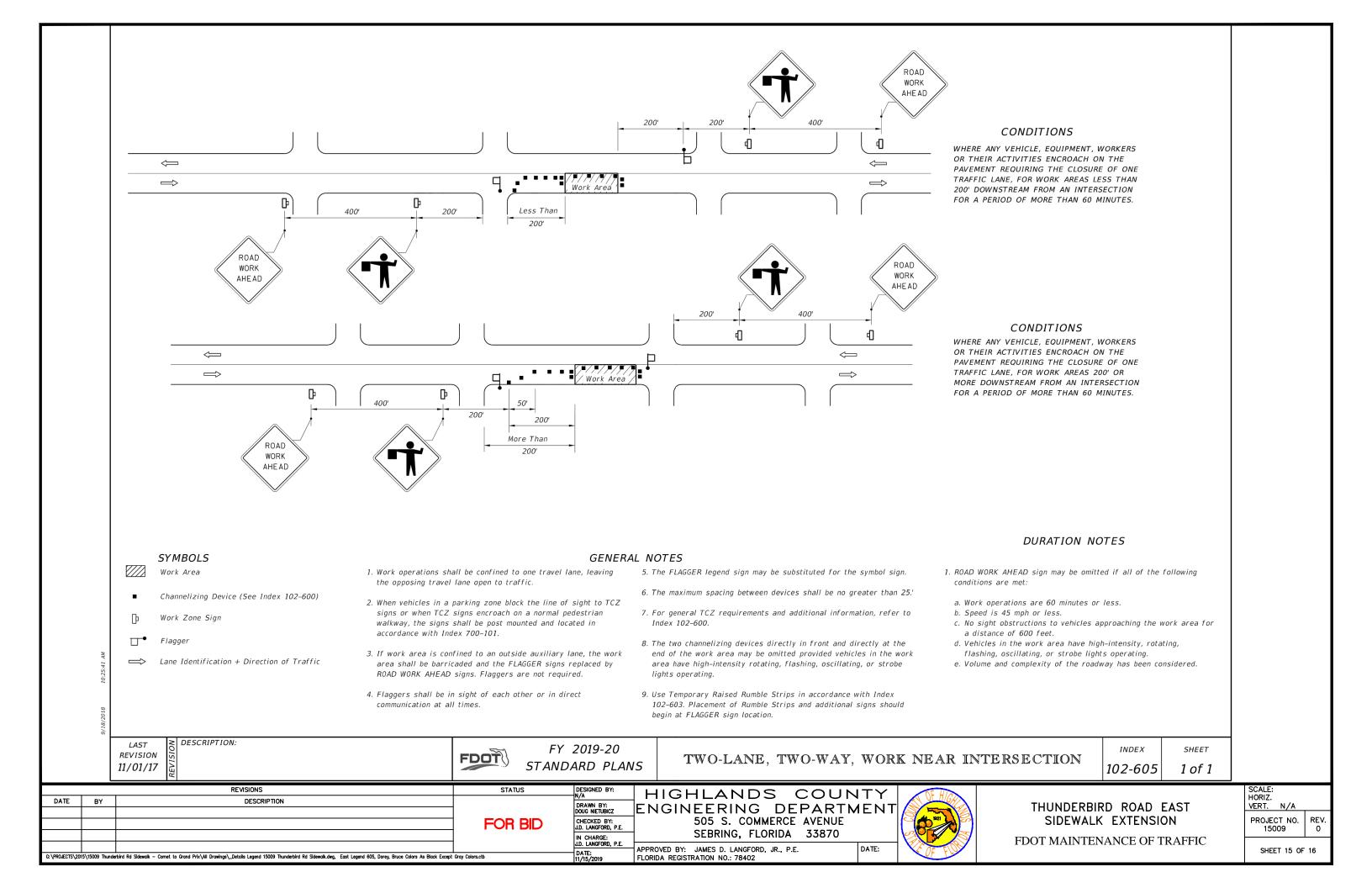
PROJECT NO. REV. 15009 0	SCALE: HORIZ. VERT. N/A	

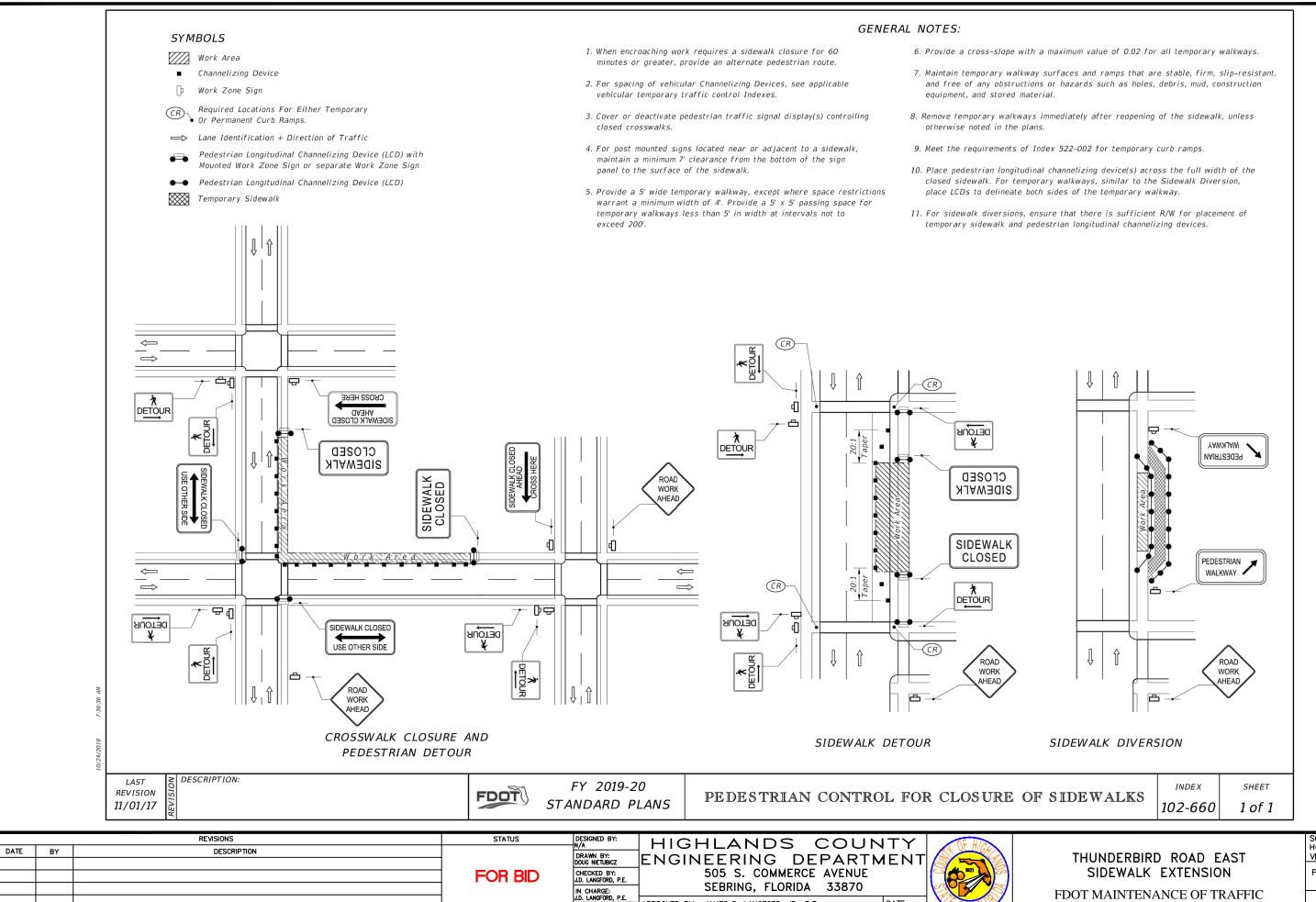
SHEET 14 OF 16

G:\PROJECTS\2015\15009 Thunderbird Rd Sidewalk - Comet to Grand Prix\All Drawings_Details Legend 15009 Thunderbird Rd Sidewalk.dwg, East Legend 603, Dorey, Bruce Colors As Black Except Gray Colors.ctb

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

DATE:





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

FLORIDA REGISTRATION NO.: 78402

DATE: 11/15/2019

G:\PROLECTS\2015\15009 Thunderbird Rd Sidewalk - Cornet to Grand Prix\All Drawings_Details Legend 15009 Thunderbird Rd Sidewalk.dwg, East Legend 660, Dorey, Bruce Colors As Black Except Gray Colors.ctb

DATE:

SCALE: HORIZ. VERT. N/A

PROJECT NO. 15009 REV. 0

SHEET 16 OF 16