FOR REVIEW ONLY

SHEET INDEX

LAKE COUNTY, FL

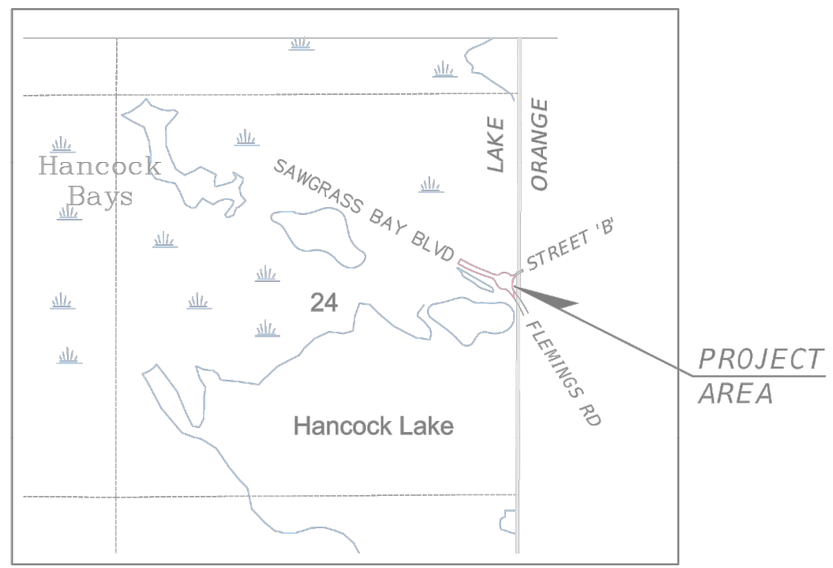
REAL FLORIDA ~ REAL CLOSE

SAWGRASS BAY BLVD MULTILANE ROUNADBOUT

PROJECT NO. 20032

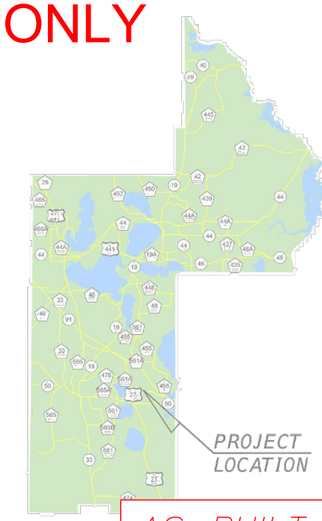
APRIL 2024

AS-BUILT SURVEY



0 1000' 2000'

LOCATION MAP



AS-BUILT LEGEND

LS	LICENSED SURVEYOR
LB	LICENSED BUSINESS
N:	NORTHING
E:	EASTING
EL:	ELEVATION
STA.	STATION
LT	LEFT OF BASELINE
RT	RIGHT OF BASELINE
Ⓓ	STORM SEWER MANHOLE

GENERAL NOTES:

THIS SURVEY WAS PREPARED AS AN AS-BUILT SURVEY.

AS-BUILT INFORMATION IS SHOWN IN RED AND CYAN.

ALL UNDERGROUND AS-BUILT INFORMATION WAS FLAGGED IN THE FIELD AND PROVIDED BY THE CONTRACTOR.

SURVEY CONTROL POINTS WERE PROVIDED BY THE CLIENT IN CONSTRUCTION PLANS AND CAD FILES PREPARED BY: LAKE COUNTY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION, DATED: APRIL, 2024.

COORDINATES, STATIONS, OFFSETS AND ELEVATIONS ARE BASED ON CONSTRUCTION CONTROL DATUM PROVIDED IN SAID PLANS.

LAST DATE OF FIELD WORK: JUNE 17, 2025.

AS-BUILT NOTES:

ELEVATIONS SHOWN HEREON BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

COORDINATES SHOWN HEREON BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83), FLORIDA STATE PLANE COORDINATES, EAST ZONE, U.S. FEET.

SURVEYOR'S CERTIFICATION:

I HEREBY CERTIFY TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, THAT THIS MAP OF AS-BUILT SURVEY IS A TRUE REPRESENTATION OF A FIELD SURVEY MADE UNDER MY DIRECTION AND CONFORMS TO THE STANDARDS OF PRACTICE FOR PROFESSIONAL SURVEYORS AND MAPPERS AS OUTLINED IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE.

ERIC E. BANTA DATE
PROFESSIONAL LAND SURVEYOR
FLORIDA LICENSE NO. LS 5696

NOTICE:

ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.

LENGTH OF PROJECT	
	LINEAR FEET
ROADWAY	1648.17
BRIDGES	0
NET LENGTH OF PROJECT	1648.17
EXCEPTIONS	0
GROSS LENGTH OF PROJECT	1648.17

Know what's below. Call before you dig. 811

SUNSHINE STATE ONE CALL OF FLORIDA

TOMAHAWK SURVEYING

Florida Licensed Business No. LB8449
115 Morningstar Drive
Punta Gorda, FL 33950
(941)-740-0733

DATE	JOB#	DWG	SCALE
06/19/2025	24-79	24-79 ASB	AS SHOWN

STATE OF FLORIDA JEFFREY J. EARHART LICENSE No.49935 PROFESSIONAL ENGINEER

JEFFREY J. EARHART P.E. NO. 49935 DATE 6/24/2024

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

REVISION:	DATE

S. -24 T. -24S R. - 26E

SURVEYED: CM	DATE: 10/14/20
FIELD BOOK: 229	PAGE: 45-46, 51
DESIGNED: OEN	DATE: 4/24/2024
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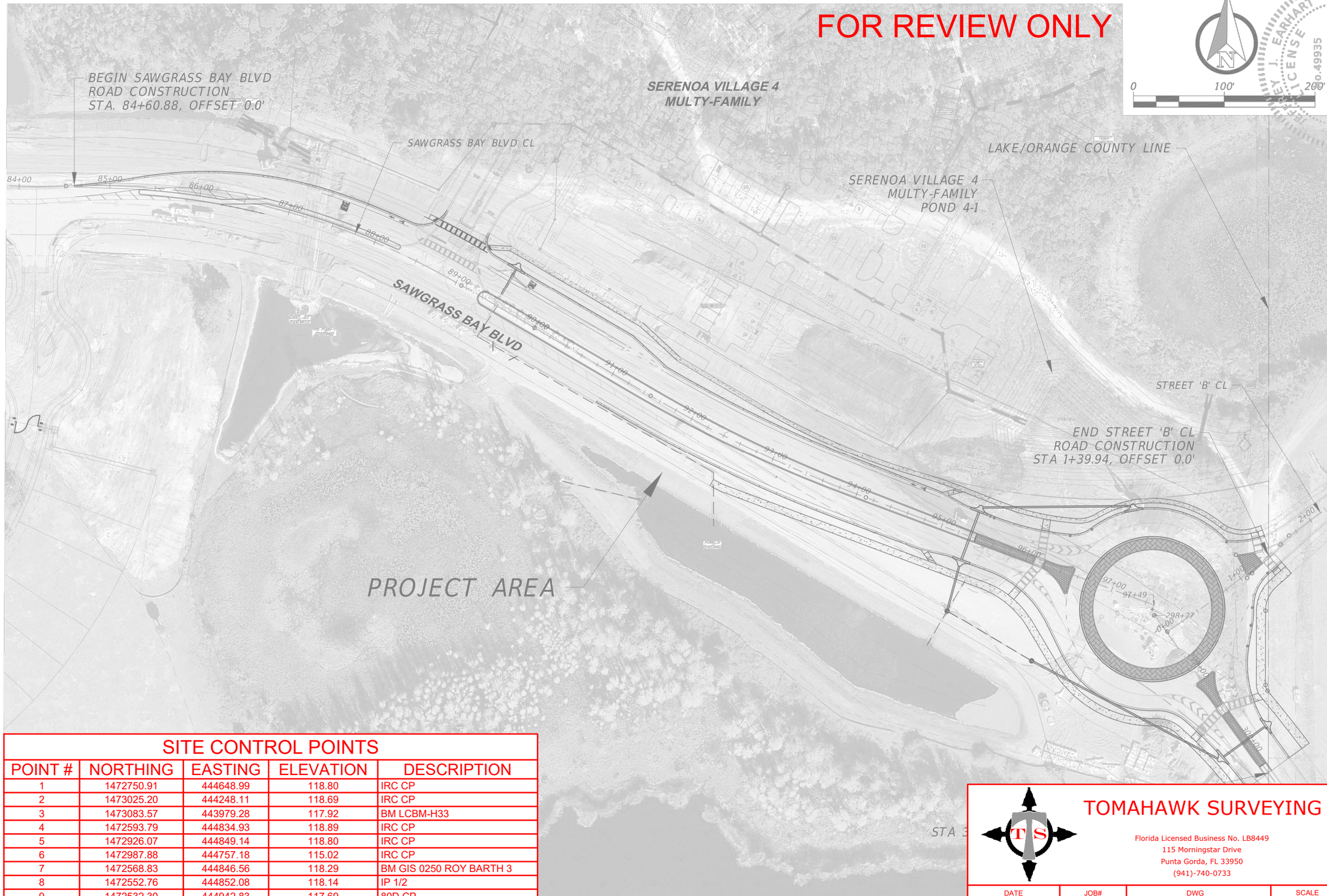
APPROVED: JE	DATE: 4/24/2024

SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
COVER SHEET

JOB NO.: 20032CA

SHEET: 1



SITE CONTROL POINTS

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1472750.91	444648.99	118.80	IRC CP
2	1473025.20	444248.11	118.69	IRC CP
3	1473083.57	443979.28	117.92	BM LCBM-H33
4	1472593.79	444834.93	118.89	IRC CP
5	1472926.07	444849.14	118.80	IRC CP
6	1472987.88	444757.18	115.02	IRC CP
7	1472568.83	444846.56	118.29	BM GIS 0250 ROY BARTH 3
8	1472552.76	444852.08	118.14	IP 1/2
9	1472532.30	444942.83	117.69	80D CP
10	1472434.67	445034.61	116.68	80D CP

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SIGNATURE	DATE
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SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
AERIAL PHOTO

JOB NO.: 20032CA

SHEET: 2

FOR REVIEW ONLY

GENERAL NOTES

A. ALL MATERIALS, INSTALLATION, TESTING, AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF LAKE COUNTY, FLORIDA AND THE FDOT UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" COMMONLY KNOWN AS THE "FLORIDA GREENBOOK" 2018 EDITION EDITION AND FDOT FY 2023 – 2024 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION. WHERE THE SPECIFICATIONS CONFLICT, THE MAXIMUM REQUIREMENTS OF EITHER SPECIFICATION SHALL APPLY, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OF RECORD.

B. ALL PROPOSED ELEVATIONS ARE SHOWN WITH A BORDER. (i.e.: XX.XX). ALL OTHER SPOT ELEVATIONS SHOWN ARE EXISTING. ALL VERTICAL DATUM IS N.A.V.D. 1988 DATUM.

C. PAVEMENT SHALL MEAN ALL ASPHALT AND BASE ASSOCIATED WITH A DRIVING SURFACE AS SHOWN ON THE CONSTRUCTION PLANS.

D. PAVEMENT REMOVAL SHALL BE REQUIRED ON ALL SIDE STREETS AND DRIVEWAYS THAT ARE WITHIN THE LIMITS OF THE RIGHT OF WAY OF THE COUNTY ROAD, AND CONSTRUCTED PER THE CROSS SECTION SHOWN ON THE CONSTRUCTION PLANS MATCHING EXISTING WIDTH AND ELEVATION UNLESS OTHERWISE NOTED.

E. A CONSTANT SLOPE SHALL BE MAINTAINED BETWEEN DESIGNATED AREAS OF CUT AND FILL.

F. ALL FILL INCLUDING SUB GRADE AND/OR SUBBASE PLACED WITHIN PROPOSED ROAD RIGHT-OF-WAY OR EASEMENT SHALL BE COMPACTED AS FOLLOWS:

ROADWAY AREAS (UNDER PAVEMENT AND PAVED SHOULDERS) SHALL BE 98% MAXIMUM DENSITY, AASHTO T-180, MINIMUM LBR 40 FOR EACH LIFT. EACH LIFT SHALL BE A MAXIMUM OF 6".

STABILIZED SHOULDERS SHALL BE TWELVE (12) INCHES DEEP, 98% MAXIMUM DENSITY, AASHTO T-180, MINIMUM LBR 40.

BEYOND THE STABILIZED SHOULDER, ALL FILL SHALL BE COMPACTED TO 95% MINIMUM DENSITY.

FILL VOLUMES SHOWN DO NOT HAVE A COMPACTION MULTIPLIER FACTORED. THE CONTRACTOR SHALL DETERMINE A COMPACTION FACTOR AND APPLY IT FOR FINAL FILL PLACEMENT VOLUMES. FOR SUBGRADE AND/OR SUBBASE REQUIREMENTS, PLEASE REFER TO SPECIFIC CROSS SECTION.

G. UNLESS OTHERWISE NOTED, THE ESTABLISHED CLEAR ZONE IS (14) FEET FROM NEW EDGE OF TRAVEL WAY. ALL ABOVE GROUND STRUCTURES SUCH AS MAIL BOXES, TRAFFIC CONTROL SIGNS, STREET SIGNS, FENCES, ETC.., ARE TO BE REMOVED AND REPLACED OUTSIDE OF THE CLEAR ZONE. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF REMOVAL AND REPLACEMENT OF THESE STRUCTURES. DAILY ACCESS TO MAILBOXES SHALL BE MAINTAINED. ALL FENCES ARE TO BE RELOCATED TO THE RIGHT-OF-WAY LINE. THE ENGINEER OF RECORD MAY WAIVE SOME OF THESE REQUIREMENTS, IF NECESSARY.

H. ALL WORK SHALL BE PERFORMED IN SUCH A MANNER THAT WILL SUCCESSFULLY ACCOMPLISH THE INTENDED DESIGN WITH MINIMAL IMPACT TO EXISTING CONDITIONS. ANY CONSTRUCTION ACTIVITY PERFORMED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD THAT IS DEEMED EXCESSIVELY DISRUPTIVE TO EXISTING CONDITIONS OF THE SURROUNDING AREA AND/OR SIGNIFICANTLY DEVIATES FROM THE LIMITS OF CONSTRUCTION AS SET FORTH BY THESE CONSTRUCTION PLANS SHALL BE CONSIDERED AS PART OF THE ORIGINAL WORK AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN TO RESTORE THE DISTURBED AREA(S).

I. APPARENT ERRORS, DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE ENGINEER OF RECORD'S ATTENTION WITHIN A REASONABLE TIME FRAME, LESS THAN 48 HOURS AFTER DISCOVERED. ADVANTAGE WILL NOT BE TAKEN OF APPARENT ERROR OR OMISSION IN THE DRAWINGS OR SPECIFICATIONS, AND THE ENGINEER SHALL BE PERMITTED TO MAKE CORRECTIONS AND INTERPRETATIONS AS MAY BE DEEMED NECESSARY FOR FULFILLMENT OF THE INTENT OF THE DESIGN.

J. CONTRACTOR SHALL VERIFY ALL EXISTING ROADWAY CROSS-SLOPES.

K. DETECTABLE WARNING ON SIDEWALK TERMINATIONS SHALL BE CAST IN PLACE, THERMOPLASTIC, LIQUID APPLIED ADA MATS OR COUNTY APPROVED EQUAL THAT IS LISTED ON THE FDOT APPROVED PRODUCTS LIST (APL). THE COLOR SHALL BE SAFETY BRICK RED.

K. ALL CHAIN LINK FENCE (CLF) WHEN PROPOSED SHALL BE FDOT TYPE B FENCING, BLACK VINYL COATED PER FDOT INDEX 550-002.

PUBLIC NOTIFICATION

A. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO ALL RESIDENCES ADJACENT TO THE PROJECT LIMITS. WITHIN A MINIMUM OF 14 CALENDAR DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE TO THE COUNTY A COPY OF THE NOTIFICATION WITH A LIST OF THE PARTIES CONTACTED. THIS NOTICE SHALL INCLUDE, AT A MINIMUM, THE ANTICIPATED CONSTRUCTION SCHEDULE, MAINTENANCE OF TRAFFIC PLAN AND ANY IMPACTS, PERMANENT OR TEMPORARY, TO THE SUBJECT RESIDENCE AND ITS ADJACENT AREA. CONTRACTOR SHALL PROVIDE CONTACT INFO INCLUDING NAME OF PROJECT MANAGER AND TELEPHONE NUMBER.

B. CONTRACTOR SHALL ALSO INSTALL PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGNS (F.D.O.T. DESIGN MANUAL 2023-24 INDEX 102-607) ON COUNTY ROAD IF IMPACTED BY CONSTRUCTION, ONE (1) WEEK PRIOR TO CONSTRUCTION IN ORDER TO INFORM RESIDENTS AND ROADWAY USERS OF THE IMPENDING CONSTRUCTION. THE PCMS SHALL DISPLAY LANE CLOSURE INFORMATION INCLUDING BUT NOT LIMITED TO ANTICIPATED LANES TO BE CLOSED, EXTENT OF LANE CLOSURE (I.E. "NEXT 3 MILES"), DAILY HOURS OF CLOSURE, AND TEMPORARY SPEED RESTRICTIONS.

STRIPING & SIGNING

A. ALL PAVEMENT MARKING SHALL BE LEAD AND SOLVENT FREE THERMOPLASTIC, UNLESS OTHERWISE NOTED.

B. ALL PAVEMENT MARKING SHALL CONFORM TO THE LATEST EDITION OF F.D.O.T. STANDARDS, THE M.U.T.C.D., 2009 R1&R2, AND LAKE COUNTY SPECIFICATIONS. WHERE THE SPECIFICATIONS CONFLICT, THE MAXIMUM REQUIREMENTS SHALL APPLY UNLESS OTHERWISE DIRECTED BY THE ENGINEER OF RECORD.

C. STRIPING SHALL BE REFLECTORIZED.

D. ALL CENTERLINE STRIPING SHALL HAVE REFLECTIVE RAISED PAVEMENT MARKINGS (RPM'S) PER F.D.O.T. STANDARDS INDEX 706-001, UNLESS OTHERWISE NOTED.

E. ALL TRAFFIC CONTROL SIGNS THAT ARE DISTURBED SHALL BE REPLACED.

F. ALL STRIPING, SIGNING, AND SIGNAL WORK SHALL BE COORDINATED WITH LAKE COUNTY TRAFFIC OPERATIONS. CONTRACTOR SHALL NOTIFY LAKE COUNTY TRAFFIC OPERATIONS (352) 742-1766 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY STRIPING, SIGNING, OR SIGNAL WORK.

G. ALL SIGNS AND SIGNAL EQUIPMENT TO BE REMOVED ARE THE PROPERTY OF LAKE COUNTY. THESE ITEMS SHALL BE RETURNED TO LAKE COUNTY TRAFFIC OPERATIONS OR DISPOSED OF BY THE CONTRACTOR AT LAKE COUNTY TRAFFIC OPERATIONS' DIRECTION.

H. ALL MATERIALS AND HARDWARE SHALL BE F.D.O.T. APPROVED AND PRE-APPROVED BY LAKE COUNTY TRAFFIC OPERATIONS PRIOR TO INSTALLATION.

I. EXISTING STRIPING DESIGNATED FOR REMOVAL SHALL BE MILLED AND RESURFACED IN ACCORDANCE WITH FDOT REQUIREMENTS AND SPECIFICATIONS, SECTION 711.

J. ALL PAVEMENT MARKING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE F.D.O.T. STANDARDS INCLUDING BUT NOT LIMITED TO 'STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION', DESIGN STANDARDS' AND THE LATEST EDITION OF THE 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES'.

DRIVEWAYS

A. DRIVEWAYS SHALL BE PAVED WITHIN THE RIGHT-OF-WAY.

B. SINGLE RESIDENTIAL DRIVES SHALL MATCH EXISTING WIDTH AND BE A MINIMUM OF 10.0' WIDE WITH AN 8.0' RADIUS FOR ASPHALT OR 4' x 8' WEDGE FOR CONCRETE.

C. DRIVEWAYS SHALL NOT EXCEED 14% SLOPE.

D. CONCRETE APRONS SHALL BE CONSTRUCTED AT EXISTING CONCRETE DRIVEWAYS. CONCRETE SHALL BE A MINIMUM OF SIX (6) INCHES THICK, 3,00

E. DRIVEWAY LOCATIONS AND WIDTHS SHOWN AR
DIRECTED BY THE ENGINEER OF RECORD.

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SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
GENERAL NOTES (1)

JOB NO.: 20032CA

SHEET: 3

FOR REVIEW ONLY

TREES AND LANDSCAPING

A. ALL TREES WITHIN CONSTRUCTION LIMITS RIGHT-OF-WAY ARE TO BE REMOVED UNLESS OTHERWISE NOTED IN THE PLANS

B. CONTRACTOR SHALL REPLACE LANDSCAPING THAT IS REMOVED OR DESTROYED WITHIN THE LIMITS OF CONSTRUCTION.

C. TREES SHALL BE TRIMMED TO RIGHT-OF-WAY LINE OR WITHIN 8' OF EOP TO A HEIGHT OF 18', WHICHEVER IS LESS BY THE CONTRACTORS.

UTILITIES

A. THE UTILITIES SHOWN IN THE CONSTRUCTION PLANS MAY NOT BE ALL OF THE UTILITIES ON SITE. UNLESS OTHERWISE NOTED, THE LOCATION OF UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. CALL SUNSHINE STATE 1-CALL OF FLORIDA, INC. @ 1-800-432-4770 TO CONFIRM UTILITY LOCATIONS.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITIES PRIOR TO CONSTRUCTION AND COORDINATING UTILITY RELOCATION WITH THE PROJECT CONSTRUCTION.

C. ONLY THOSE UTILITIES SHOWN HERON THAT WERE VISIBLE AT THE TIME OF THE SURVEY WERE LOCATED. NO ATTEMPT WAS MADE TO LOCATE UNDERGROUND UTILITIES. AN ASCE QUALITY A OR B DESIGNATION WILL BE NECESSARY BEFORE ANY ONSITE WORK TAKES PLACE. CONTACT SUNSHINE ONE CALL AT 811 FOR FURTHER INFORMATION.

SURVEY

A. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONTROL AND BENCHMARK DATA BEFORE CONSTRUCTION. DISCREPANCIES IN DATA SHALL BE BROUGHT TO THE ATTENTION OF THE LAKE COUNTY SURVEY MANAGER AT (352) 253-6049.

B. ALL (P.R.M.'s) IRONS AND MONUMENTS SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.

C. PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED THE COUNTY SURVEYOR SHALL BE IMMEDIATELY NOTIFIED.

D. CONTRACTOR IS TO PROVIDE TWO (2) SETS OF HARD COPY AS-BUILTS AND ONE ELECTRONIC FILE. THE AS-BUILTS SHALL SHOW DRAINAGE INFORMATION AS WELL AS EDGE OF PAVEMENT SHOTS FOR THE ROADWAY.

E. THE HORIZONTAL DATUM OF THIS SURVEY IS THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) IN U.S. SURVEY FEET BASED ON ON GLOBAL NAVIGATION SATELLITE SYSTEM TIES TO CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) AS PROCESSED THROUGH THE FLORIDA DEPARTMENT OF TRANSPORTATION'S FLORIDA PERMANENT REFERENCE NETWORK (FPRN). THE EXPECTED HORIZONTAL ACCURACY OF MAPPED FEATURES ARE EXPECTED TO BE LESS THAN 0.07 FEET AT A 95 PERCENT CONFIDENCE LEVEL PLUS A REASONABLE CENTERING ERROR INHERENT TO THE FEATURE BEING MAPPED. THE METHODOLOGY TO DETERMINE SAID ACCURACY WAS AN ERROR PROPAGATION ANALYSIS DONE BY A LEAST SQUARES ADJUSTMENT PROGRAM.

TRAFFIC CONTROLS

A. EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS.

B. CONTRACTOR SHALL SUBMIT DETAILED MAINTENANCE OF TRAFFIC PLANS FOR REVIEW AND APPROVAL. ALL ROADS SHALL BE OPEN TO TRAFFIC WITH NO PERMANENT LANE CLOSURES ALLOWED. CONTRACTOR SHALL CONFORM TO THE LATEST EDITIONS OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX 102-600 TO 102-680 AS APPLICABLE.

C. ANY TEMPORARY ROAD CLOSURE REQUIRES AUTHORIZATION REQUEST MADE TO LAKE COUNTY ROAD OPERATIONS AT (352) 343-6439 AND WITH AT LEAST THREE (3) DAYS NOTICE PRIOR TO CLOSURE. CONTRACTOR MUST SUPPLY A DETOUR PLAN WHEN REQUESTING CLOSURE. NO CLOSURE SHALL TAKE PLACE WITHOUT APPROVAL OF THE DETOUR PLAN. CONTRACTOR SHALL SUPPLY ALL SIGNAGE ASSOCIATED WITH CLOSURE AND DETOUR.

D. IF EXISTING VEHICLE DETECTION LOOPS ARE DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY DETECTION LOOPS.

DRAINAGE

A. IN ALL PONDS THAT REQUIRE FILL, THE CONTRACTOR SHALL USE WELL GRADED SAND FILL WITH NO MORE THAN 10% PASSING #200 SIEVE MATERIAL IN THE POND BANKS AND BOTTOM. AT NO TIME SHALL CLAYS/CLAYEY SOILS BE USED UNLESS AUTHORIZED BY THE DIRECTOR OF ENGINEERING OR HIS DESIGNEE. THE CONTRACTOR SHALL NOTIFY THE LAKE COUNTY CONSTRUCTION INSPECTOR 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY POND CONSTRUCTION TO COORDINATE THE INSPECTION OF THE PROPOSED CONSTRUCTION PRACTICES AND MATERIALS TO BE USED.

B. ALL CURB INLETS, DITCH BOTTOM INLETS, AND MANHOLES WITHIN THE RIGHT-OF-WAY SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS OR GRATES MEETING HS-20 LOADING REQUIREMENTS.

C. UNLESS OTHERWISE NOTED, ALL EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION ARE TO REMAIN.

D. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT ALL PIPES, PIPE END TREATMENTS, AND DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION IN A DRY CONDITION OR AS APPROVED BY THE DIRECTOR OF ENGINEERING.

E. CONSTRUCT ALL MITERED END SECTIONS PER F.D.O.T. DESIGN STANDARDS INDEX No. 430-021 FOR CROSS PIPES AND SIDE PIPES, RESPECTIVELY.

F. SWALES SHOULD BE SODDED.

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SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
GENERAL NOTES (2)

JOB NO.: 20032CA

SHEET: 4

FOR REVIEW ONLY

LEGEND

ASPH	=	ASPHALT
BWF	=	BARBED WIRE FENCE
(C)	=	CALCULATED DIMENSION
C#	=	CURVE NUMBER (SEE CURVE TABLE)
℄	=	CENTERLINE
CCR	=	CERTIFIED CORNER RECORD
CLF	=	CHAIN LINK FENCE
CM	=	CONCRETE MONUMENT
CMP	=	CORRUGATED METAL PIPE
CONC	=	CONCRETE
(D)	=	DESCRIPTION DIMENSION
DB	=	DEED BOOK
DWG	=	DRAWING
IR	=	IRON ROD
IRC	=	IRON ROD AND CAP
L#	=	LINE NUMBER (SEE LINE TABLE)
LT	=	LEFT
FB	=	FIELD BOOK
FDOT	=	FLORIDA DEPARTMENT OF TRANSPORTATION
FND	=	FOUND
HDPE	=	HIGH DENSITY POLYETHYLENE PIPE
N&D	=	NAIL AND DISK
ORB	=	OFFICIAL RECORDS BOOK
O/S	=	OFFSET
(P)	=	PLAT DIMENSION
PB	=	PLAT BOOK
PC	=	POINT OF CURVATURE
PCC	=	POINT OF COMPOUND CURVATURE
PG	=	PAGE
PI	=	POINT OF INTERSECTION
POB	=	POINT OF BEGINNING
POC	=	POINT OF COMMENCEMENT
PRC	=	POINT OF REVERSE CURVATURE
PT	=	POINT OF TANGENCY
PVC	=	POLY VINYL CHLORIDE
PVCFN	=	POLY VINYL CHLORIDE FENCE
R	=	RANGE
RCP	=	REINFORCED CONCRETE PIPE
RMB	=	ROAD MAP BOOK
RT	=	RIGHT
R/W	=	RIGHT-OF-WAY
SEC	=	SECTION
STA	=	STATION
T	=	TOWNSHIP
VCP	=	VITRIFIED CLAY PIPE
WFF	=	WIRE FIELD FENCE
WBF	=	WOOD BOARD FENCE
WRF	=	WOOD RAIL FENCE

STANDARD ABBREVIATIONS

A
- AC. ACRE
- ALT. ALTERNATE
- A/U AERIAL UTILITIES

B
- BL BASE LINE
- BM BENCH MARK
- BOC BACK OF CURB
- BOT. BOTTOM
- BW BARBED WIRE

C
- (C) CALCULATED DIMENSION
- CCR CERTIFIED CORNER RECORD
- CLR. CLEAR / CLEARANCE
- CM CONCRETE MONUMENT
- CMP CORRUGATED METAL PIPE
- CL CHAIN LINK FENCE
- CP COMBINATION POLE
- CPP CORRUGATED PLASTIC PIPE
- CONST. CONSTRUCT / CONSTRUCTION
- CULV CULVERT

D
- DET. DETAIL
- D/W DRIVEWAY

E
- E EAST
- ELLIP ELLIPTICAL
- ENGR. ENGINEER
- EOC EDGE OF CONCRETE
- EOM EDGE OF MAINTENANCE
- EOT EDGE OF TRAVEL
- ESMT. EASEMENT

F
- F.G. FINISHED GRADE
- FND FOUND
- FUT FUTURE

G
- GND. GROUND
- GP GRADE POINT
- GW GUY WIRE

H
- HOG HOG WIRE
- H.W. HIGH WATER

I
- INT. INTERSECTION
- I.P. IRON PIPE

J
- JT. JOINT

L
- LMRK LIME ROCK
- L.P. LIGHT POLE
- LTD LIGHTED
- L.W. LOW WATER

M
- MATL. MATERIAL
- (M) MEASURED DIMENSION
- MEG MATCH EXIST. GRADE
- MFR. MANUFACTURER
- MON. MONUMENT

N
- N NORTH
- N&C NAIL & CAP
- N&D NAIL & DISK
- NIC NOT IN CONTRACT

O
- OPNG. OPENING
- OPT. OPTION
- ORB OFFICIAL RECORD BOOK

P
- PC POINT OF CURVE
- PCC POINT OF COMPOUND CURVE
- P.C.M. PERMANENT CONTROL MONUMENT
- P.R.L.C.F. PUBLIC RECORDS OF LAKE COUNTY, FLORIDA
- PG PAGE
- PK CASE HARDENED NAIL
- PI POINT OF INTERSECTION
- PL PROPERTY LINE
- POB POINT OF BEGINNING
- PP POWER POLE
- PROP. PROPOSED
- PRC POINT OF REVERSE CURVE
- PT POINT OF TANGENCY

Q

R
- R.C. REINFORCED CONCRETE
- RCP REINFORCED CONCRETE PIPE
- RD. ROAD
- RLS REGISTERED LAND SURVEYOR
- REV. REVISION
- RPM REFLECTIVE PAVEMENT
- RND ROUND
- RR RAIL ROAD

S
- S SOUTH
- SHT. SHEET
- SQ SQUARE
- STD. STANDARD
- SS STORM SEWER

T
- T&B TOP & BOTTOM
- TBM TEMPORARY BENCH MARK
- TEL. TELEPHONE
- TOB TOP OF BANK
- TOS TOE OF SLOPE
- T.P. TELEPHONE POLE

U
- U.G. UNDERGROUND
- U.G.P. UNDERGROUND POWER
- U.O.N. UNLESS OTHERWISE NOTED
- U.T.C. UNDERGROUND TELEPHONE CABLE
- UTIL. UTILITY

V
- VAR. VARIES

W
- W WEST
- W/ WITH
- WITH OUT
- WATER'S EDGE
- WATER MAIN
- W.R.A. WATER RETENTION AREA
- W.S. WATER SURFACE
- W.S.EL. WATER SURFACE ELEVATION

Y

= AIR CONDITIONER
= BENCH
= BOLLARD
= CLEAN OUT
= CABLE TV JUNCTION BOX
= DELINEATOR POST
= ELECTRICAL JUNCTION BOX
= ELECTRICAL OUTLET
= ELECTRICAL TRANSFORMER
= FIRE HYDRANT
= FLAG POLE
= GUY POLE
= GUY WIRE
= HANDICAP PARKING
= LIGHT POLE
= MAIL BOX
= MANHOLE (UNKNOWN)
= MANHOLE (COMMUNICATIONS)
= MANHOLE (DRAINAGE)
= MANHOLE (ELECTRICAL)
= MANHOLE (SANITARY)
= MANHOLE (TELEPHONE)

= METER (ELECTRIC)
= METER (GAS)
= METER (WATER)
= MONITOR WELL
= PEDESTRIAN SIGNAL
= PILLAR OR COLUMN
= POST
= POWER POLE
= PUMP
= SIGN
= SIGNAL PEDESTAL
= SIGNAL CONTROL CABINET
= SIGNAL MAST ARM
= SIGNAL SPAN WIRE POLE
= SOIL BORING
= SPRINKLER HEAD
= TELEPHONE PEDESTAL
= TELEPHONE CABINET
= UTILITY MARKER (CABLE TV)
= UTILITY MARKER (FIBER OPTIC)
= UTILITY MARKER (ELECTRICAL)
= UTILITY MARKER (TELEPHONE)

= UTILITY MARKER (GAS)
= UTILITY MARKER (WATER)
= UTILITY MARKER (RECLAIM)
= VALVE (UNKNOWN)
= VALVE (BACKFLOW PREVENTER)
= VALVE (GAS)
= VALVE (RECLAIM)
= VALVE (SANITARY)
= VALVE (WATER)
= VAULT (CABLE TV)
= VAULT (COMMUNICATIONS)
= VAULT (ELECTRICAL)
= VAULT (TELEPHONE)
= VAULT (TRAFFIC SIGNAL)
= WATER FAUCET
= WELL

BA = BAY TREE
BS = BUSH
CD = CEDAR TREE
CE = CHERRY TREE
CH = CHINABERRY TREE
CR = CAMPHOR TREE
CT = CITRUS TREE
CY = CYPRESS TREE
ER = EAR TREE
MG = MAGNOLIA TREE
MY = CREPE MYRTLE TREE
NS = NON-SPECIFIC TREE
OK = OAK TREE
PA = PALM TREE
PN = PINE TREE
SY = SYCAMORE TREE

= FOUND AXLE
= BENCHMARK
= CALCULATED CORNER
= FOUND BOX CUT OR SCRIBED "X"
= FOUND CONCRETE MONUMENT (SIZE AND MARKINGS AS NOTED)
= HUB AND TACK
= FOUND IRON PIPE (SIZE AND MARKINGS AS NOTED)
= FOUND IRON ROD (SIZE AND MARKINGS AS NOTED)
= SET 5/8" IRON ROD WITH CAP "LAKE COUNTY LS6329"

TOMAHAWK SURVEYING

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Punta Gorda, FL 33950
(941)-740-0733

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STATE OF FLORIDA PROFESSIONAL ENGINEER JEFFREY J. EARHART No. 49935

SIGNATURE / DATE
JEFFREY J. EARHART P.E. NO. 49935

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

REVISION: DATE

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SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
LEGENDS

JOB NO.: 20032CA
SHEET: 5

FOR REVIEW ONLY

EROSION AND SEDIMENT CONTROL

A. ALL INLETS, MITERED END SECTIONS, AND END WALLS SHALL BE PROTECTED WITH SOD (5' OF SOD IN ALL DIRECTIONS) PER F.D.O.T. DESIGN STANDARDS INDEX NO. 570-001, INDEX 524-001, AND AS SHOWN ON THE CONSTRUCTION PLANS.

B. THE LOCATION OF THE MINIMUM REQUIRED EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS SILT FENCES AND TURBIDITY BARRIERS, ARE SUMMARIZED ON THE PLAN SHEETS. SEE SHEET C-6 FOR TYPICAL INSTALLATION DETAILS.

C. SOIL TRACKING PREVENTION DEVICES SHALL BE CONSTRUCTED AT POINTS OF EGRESS FROM UNSTABLE AREAS OF THE PROJECT TO ROADS WHERE OFF SITE TRACKING OF MATERIAL COULD OCCUR. SEE SHEET C-6 FOR DETAILS.

D. SOD SHALL BE PLACED IMMEDIATELY AROUND NEW MITERED END SECTIONS AND AREAS SUBJECT TO EROSION PER FDOT INDEX 524-001.

E. ALL DISTURBED AREAS SHALL BE SODDED, UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE FOR WATERING AND MAINTAINING SOD UNTIL FULLY ESTABLISHED AND AS ADDITIONALLY SHOWN ON THE CONSTRUCTION PLANS.

F. SOD SHALL BE REPLACED WITH ORIGINAL TYPE ON ALL RESIDENTIAL LOTS AND AS SHOWN ON PLANS.

G. CONTRACTOR SHALL DE-SILT ALL DRAINS, PIPES AND SWALES WITHIN PROJECT BOUNDARY AT COMPLETION OF CONSTRUCTION.

H. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE IN WRITING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO THE COUNTY FOR APPROVAL PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.

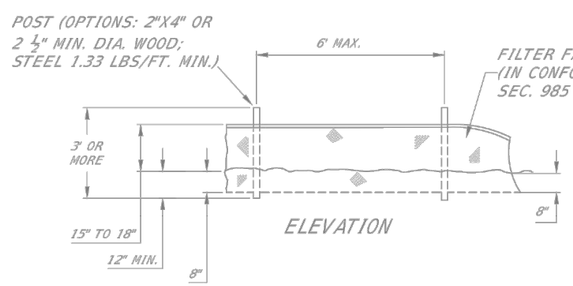
I. EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN SHEETS SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION AND ARE THE MINIMUM REQUIRED. ADDITIONAL CONTROLS SHALL BE FURNISHED AS NEEDED AT NO ADDITIONAL COST. MATERIALS FROM WORK ON THESE PROJECTS SHALL BE CONTAINED AND NOT ALLOWED TO COLLECT ON ANY OFF PERIMETER AREAS OR IN WATERWAYS. SILT FENCES, TURBIDITY BARRIERS, AND OTHER ESSENTIAL EROSION CONTROL MEASURES MUST REMAIN IN PLACE AND IN GOOD CONDITION AT ALL LOCATIONS IN THE CONSTRUCTION PLANS OR AS REQUIRED UNTIL SOILS ARE STABILIZED, VEGETATION HAS BEEN ESTABLISHED AND THE CONTRACT IS COMPLETE. MEASURES SHOWN ARE THE MINIMUM REQUIRED, AND THE CONTRACTOR SHALL ENSURE THAT THERE IS NO DIRECT OR INDIRECT DISCHARGE OF CONSTRUCTION MATERIALS INTO OFF SITE AREAS OR WATERWAYS ETC.. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION OF CONSTRUCTION.

J. PEGGED SOD SHALL BE PLACED ON ALL SLOPES 3:1 OR STEEPER.

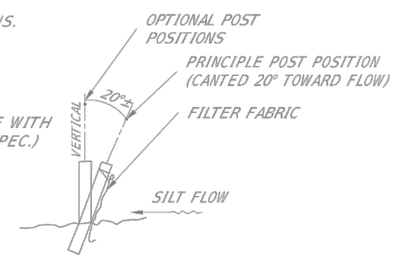
SILT FENCE TYPE III

NOTE:

EROSION, SEDIMENT AND TURBIDITY CONTROL SHALL BE MAINTAINED AT ALL TIMES DURING AND AFTER CONSTRUCTION OF THE PROJECT. THESE CONTROL MEASURES ARE ONLY THE MINIMUM REQUIRED AND ADDITIONAL CONTROLS SHALL BE UTILIZED AS NEEDED, DEPENDENT UPON ACTUAL SITE CONDITIONS AND CONSTRUCTION OPERATIONS.

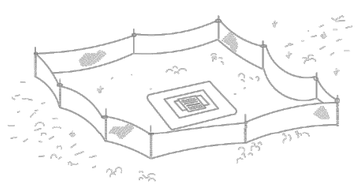


ELEVATION

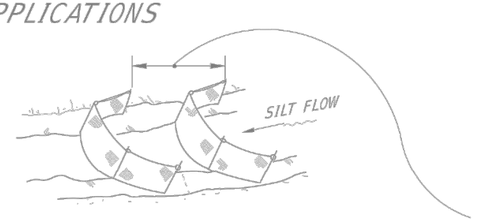


SECTION

SILT FENCE APPLICATIONS



TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS.



SPACING FOR TYPE III SILT FENCE.

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

EROSION & SEDIMENT CONTROL

PRIOR TO INITIATING CONSTRUCTION OF PLANNED IMPROVEMENTS, ALL SWALES WILL BE EXCAVATED AND ROUGH GRADED TO PROVIDE SEDIMENT AND RUNOFF CONTROL DURING CONSTRUCTION.

ALL DISTURBED AREAS WILL BE BROUGHT TO FINAL GRADE AND SODDED AS SOON AS POSSIBLE.

AREAS WHICH MAY ERODE DUE TO SLOPES OR CONCENTRATED RUNOFF DURING CONSTRUCTION WILL BE PROTECTED AT A MINIMUM WITH SILT FENCING AS SHOWN ON THE PLAN SHEETS.

UPON COMPLETION OF SITE IMPROVEMENTS, THE RETENTION PONDS, SWALES, AND OTHER STORM WATER MANAGEMENT DEVICES WILL BE FINAL GRADED AND SODDED AS SPECIFIED IN THE APPROVED CONSTRUCTION PLANS.

ROUTINE MAINTENANCE - STORM WATER

AFTER COMPLETION OF CONSTRUCTION, SWALES WILL BE MOWED AND MAINTAINED AS PART OF THE COUNTY ROAD MAINTENANCE.

TRASH AND DEBRIS THAT ACCUMULATES WITHIN THE RETENTION PONDS, SWALES, PIPES, AND INLETS WILL BE MANUALLY COLLECTED AND DISPOSED OF WITH OTHER NORMAL SOLID WASTE.

ANY EROSION, LOSS OF GRASS, ETC., WILL BE REPAIRED OR REPLACED ROUTINELY AND AS NEEDED.

FOR 1% SLOPE
FOR 2.5% SLO
FOR SLOPES S
2.5%, CONSIDE
TEMPORARY
SOD PER FDOT
PLANS 570-00

TOMAHAWK SURVEYING

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JEFFREY J. EARHART LICENSE No.49935 STATE OF FLORIDA PROFESSIONAL ENGINEER

SIGNATURE: Jeffrey J. Earhart
DATE: 4/24/2024
JEFFREY J. EARHART P.E. NO. 49935

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

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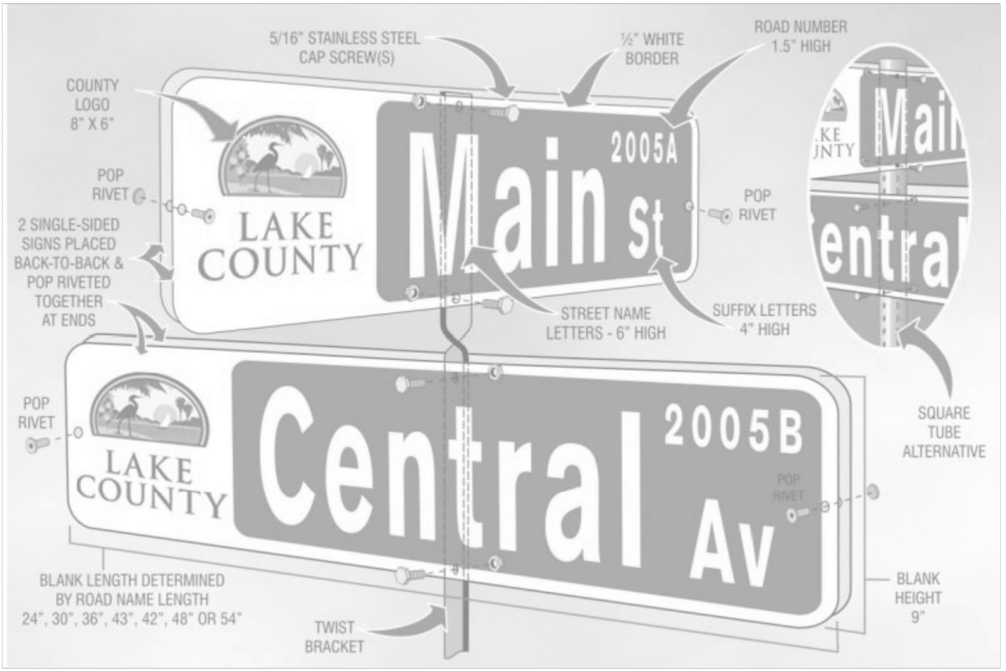
SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
EROSION NOTES AND DETAILS

JOB NO.: 20032CA

SHEET: 6

FOR REVIEW ONLY

LAKE COUNTY SIGN SPECIFICATIONS FOR COUNTY MAINTAINED ROADS FOR BUILDERS/CONTRACTORS/DEVELOPERS



STREET NAME SIGNS (D3's)

SIGN BLANKS

- 0.063" THICK ALUMINUM
- ALUMINUM CHEMICALLY TREATED TO MEET ASTM B499 STANDARD (PRETREATMENT FOR PAINT OR REFLECTIVE SHEETING)
- DIMENSIONS ARE TO BE 9" HEIGHT x 24" MINIMUM / 54" MAXIMUM LENGTH.

COLOR

- THE BACKGROUND SHALL BE HIGH INTENSITY PRISMATIC OR GREATER WHITE SHEETING, WITH GREEN TRANSPARENT OVERLAY FILM.

LEGEND / LETTERING

- ONE-HALF INCH (1/2") WHITE BORDER, 1/2" FROM THE EDGE.
- STREET NAMES SHALL BE 6" SERIES B LETTERS.
- THE ABBREVIATED SUFFIX "Rd" , "Av" , "Dr" , ETC., SHALL BE 4" SERIES B.
- THE DISTRICT NUMBER IN THE UPPER RIGHT CORNER OF THE SIGN SHALL BE 1 1/2" SERIES B.

MOUNTING

- MOUNTING SHALL BE TWO SINGLE SIDED SIGNS WITH ATTRIBUTES ABOVE, MOUNTED BACK TO BACK, WITH ENDS POP-RIVETED TOGETHER, ON A GALVANIZED 9" TWIST BRACKET. NO EDGE-CLAMPING STYLE MOUNTING BLOCKS ARE TO BE USED.

REGULATORY AND WARNING SIGNAGE

MATERIAL/SIGN BLANKS & FACINGS

- 0.080 GAUGE
- WITH THE EXCEPTION OF THE STREET NAME SIGNS, ALL SIGNS SHALL CONFORM IN COLOR, SIZE, LEGEND AND LOGO WITH SPECIFICATION IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- STOP SIGN MINIMUM 30" x 30", MINIMUM HIGH INTENSITY PRISMATIC SHEETING OR GREATER. SHEETING FOR ALL SIGNS SHALL BE HIGH INTENSITY PRISMATIC OR GREATER.

PLACEMENT SPECIFICATIONS

- PLACEMENT SHALL BE IN ACCORDANCE WITH THE MUTCD (SECTIONS 2A-21 THROUGH 2A-27) WITH RESPECT TO OFFSET FROM EDGE OF ROAD, HEIGHT, ETC.
- POLES SHOULD BE BURIED TO A MINIMUM DEPTH OF 2 1/2' (30"), ALLOWING 7' TO BOTTOM OF SIGN FROM THE LEVEL OF THE TRAVELED ROADWAY.
- POLES ARE NOT TO BE CONCRETED IN PLACE.

POLES

- SIGN POSTS SHALL BE GALVANIZED STEEL U-CHANNEL POLES, NOT LESS THAN 12' IN LENGTH (14' OR 16' FOR SEVERE SHOULDER DROP-OFFS), WITH MIMIMUM WEIGHT OF 3 LBS. PER FOOT, OR SQUARE TUBE, MINIMUM 1 3/4" GALVANIZED STEEL, MINIMUM 14 GAUGE, DRILLED 1/2" HOLES ON 1" CENTERS FULL LENGTH.

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JEFFREY J. EARHART LICENSE No.49935 STATE OF FLORIDA PROFESSIONAL ENGINEER

SIGNATURE: 4/24/2024 DATE: JEFFREY J. EARHART P.E. NO. 49935

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

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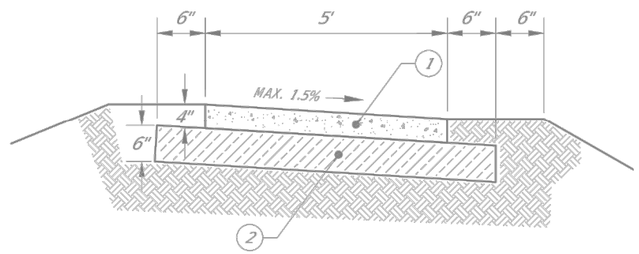
SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
STREET SIGN DETAILS

JOB NO.: 20032CA

SHEET: 7

FOR REVIEW ONLY

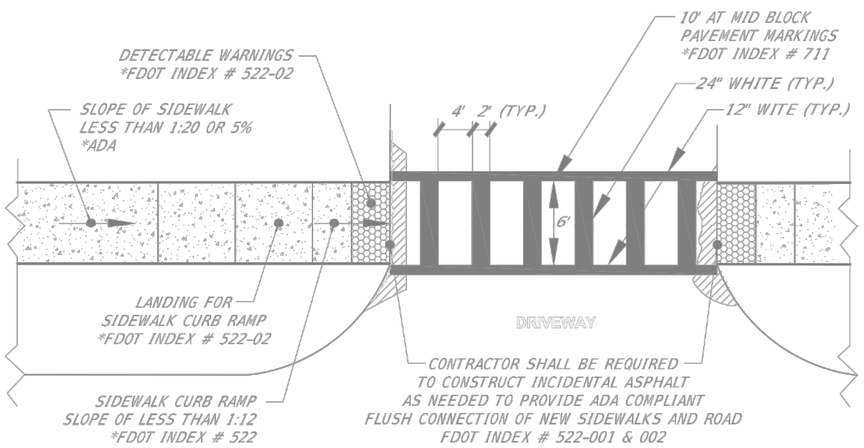
TYPICAL CONCRETE SIDEWALK DETAIL



KEY:
1. 4" THICK x 5' WIDE, 3000 PSI CONCRETE WITH FIBER MESH.
2. 6" COMPACTED BASE - MIN. 95%, AASHTO T-99

SCALE: N.T.S.

SIDEWALK RAMP AND CROSS WALK (PAVEMENT MARKING) DETAIL

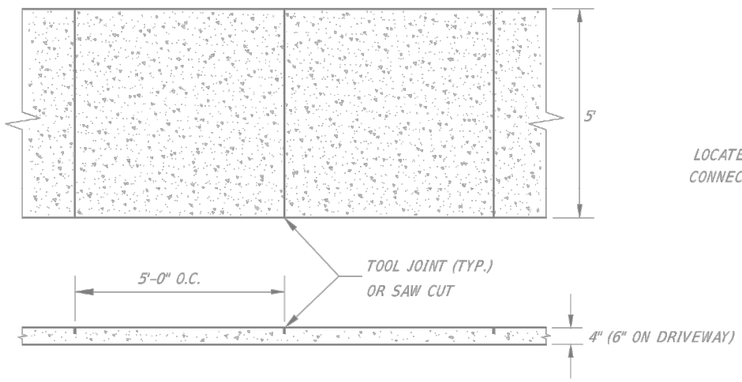


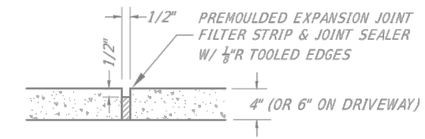
NOTE:

1. 4" 3,000 PSI CONCRETE SIDEWALK AND TRAILS INTERSECTING ROADWAYS, COMMERCIAL DRIVEWAYS, AND DRIVEWAYS OF 24 FEET OR GREATER IN WIDTH SHALL HAVE CONCRETE RAMPS CONSTRUCTED PER FDOT DESIGN STANDARDS 304 & 310. WITH RAMPS AND LANDINGS CONSTRUCTED OF 6" 3,000 PSI FIBER REINFORCED CONCRETE.
2. ALL SIDEWALK AND TRAIL APPROACHES SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTENDED THE FULL WIDTH OF THE APPROACH AND TWENTY FOUR (24) INCHES IN THE DIRECTION OF TRAVEL.
3. ALL DETECTABLE WARNING SURFACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH FDOT SPECIFICATION 527, FDOT DESIGN STANDARDS 304, UNITED STATES ACCESS BOARD/ADA SPECIFICATIONS, AND BE INSTALLED SUCH THAT THE EDGE OF THE DETECTABLE WARNING SURFACE IS FLUSH WITH THE FINISHED GRADE OF THE APPROACH SURFACE.
4. DETECTABLE WARNING SURFACES WITHIN COUNTY RIGHT-OF-WAY SHALL BE CAST-IN-PLACE. THE SUPPLIERS FOR THESE DETECTABLE WARNING MATS MUST BE APPROVED SUPPLIERS ON THE MOST RECENT FDOT APPROVED PRODUCT LIST (APL) SPECIFICATION 527 DETECTABLE WARNINGS ON WALKABLE SURFACES.
5. DETECTABLE WARNING COLOR SHALL BE BRICK RED.

SCALE: N.T.S.

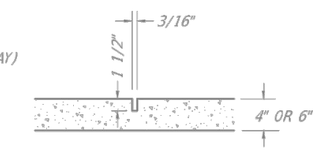
TYPICAL SIDEWALK JOINT DETAIL





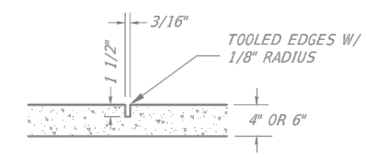
EXPANSION JOINT

LOCATE AT 120' INTERVALS IN SIDEWALK OR WHEN CONNECTING TO EXISTING SIDEWALK OR DRIVEWAYS



SAWED JOINT

LOCATE AT 5' INTERVALS IN SIDEWALK
SAW CUT WITHIN 24 HRS/KN AFTER CONCRETE POUR



CONTRACTION JOINT

NOTE:

1. SIDEWALK SHALL BE MIN. 5' WIDE AND 4" THICK 3000 PSI CONCRETE 6" THICK 3000 PSI CONCRETE WITH FIBER MESH ON ALL DRIVEWAY
2. 6" COMPACTED BASE - MIN. 95%, AASHTO T-99
3. 3/16" WIDE SAW CUT JOINTS, 1-1/2" DEEP, MAX. 5' CENTER
4. 1/2" EXPANSION JOINT WHEN RUN OF SIDEWALK EXCEEDS 120'. INTERMEDIATE LOCATIONS WHEN CALLED FOR IN THE PLANS OR AT LOCATIONS AS DIRECTED BY THE ENGINEER.
5. INSTALL PER FDOT DESIGN STANDARDS AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITIONS.
6. ALL SIDE WALK AND RAMP CONSTRUCTION MUST MEET ADA SPECIFICATIONS.
7. SOD ALL DISTURBED AREAS.
8. COMPACT ALL FILL AREAS TO 95% COMPACTION, AASHTO T-99.
9. THE RUNNING GRADE SLOPE OF THE SIDEWALK SHALL BE 5% MAX.
10. THE CROSS SLOPE OF THE SIDEWALK SHALL NOT EXCEED 1 1
11. CONCRETE FINISH TO BE BROOM FINISH, NO PICTURE FRAME

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SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
GENERAL DETAILS

JOB NO.: 20032CA
SHEET: 8

Curve Table: Quad NW-North

Curve #	Radius	Length	Start Point	End Point	Delta	Chord Direction	Chord Length
C2	300.00	86.32	(444633.79,1472865.17)	(444550.01,1472884.68)	016° 29' 11"	N76° 53' 18.60"W	86.03
C3	35.00	25.64	(444657.88,1472872.13)	(444633.79,1472865.17)	041° 58' 39"	S73° 52' 46.40"W	25.07

Line Table: Quad NW-North

Line #	Length	Direction	Start Point	End Point
L3	4.60	N68° 38' 42.98"W	(444550.01,1472884.68)	(444545.72,1472886.36)

Curve Table: Quad NE-North

Curve #	Radius	Length	Start Point	End Point	Delta	Chord Direction	Chord Length
C12	100.00	70.28	(444872.12,1472876.91)	(444805.89,1472858.12)	040° 16' 08"	S74° 09' 45.68"W	68.85

Line Table: Quad NE-North

Line #	Length	Direction	Start Point	End Point
L10	31.03	S54° 01' 41.78"W	(444897.24,1472895.13)	(444872.12,1472876.91)

Curve Table: Quad NE-North Inside EOP

Curve #	Radius	Length	Start Point	End Point	Delta	Chord Direction	Chord Length
C13	111.01	62.99	(444816.44,1472844.40)	(444874.95,1472865.37)	032° 30' 33"	N70° 17' 05.62"E	62.15

Line Table: Quad NE-North Inside EOP

Line #	Length	Direction	Start Point	End Point
L11	35.52	N54° 01' 41.78"E	(444874.95,1472865.37)	(444903.70,1472886.23)

Curve Table: Street 'B'

Curve #	Radius	Length	Start Point	End Point	Delta	Chord Direction	Chord Length
C10	1146.00	157.37	(444740.89,1472759.45)	(444865.41,1472855.48)	007° 52' 04"	N52° 21' 35.86"E	157.24
C11	502.50	251.83	(444865.41,1472855.48)	(445087.02,1472969.45)	028° 42' 49"	N62° 46' 58.40"E	249.20

Curve Table: Quad NE-South Inside EOP

Curve #	Radius	Length	Start Point	End Point	Delta	Chord Direction	Chord Length
C14	100.00	7.67	(444828.71,1472818.86)	(444834.23,1472824.18)	004° 23' 46"	N46° 01' 46.72"E	7.67

Line Table: Quad NE-South Inside EOP

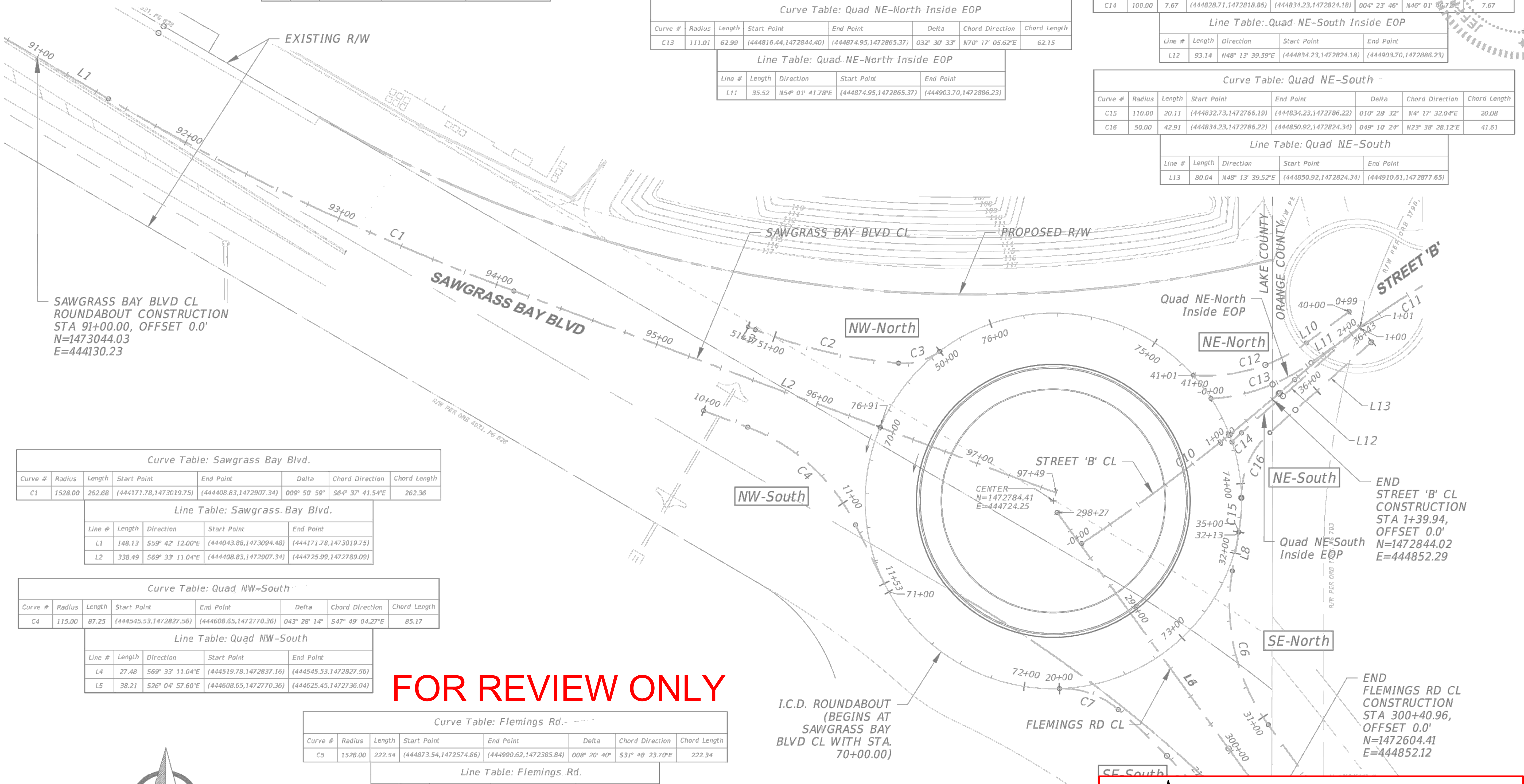
Line #	Length	Direction	Start Point	End Point
L12	93.14	N48° 13' 39.59"E	(444834.23,1472824.18)	(444903.70,1472886.23)

Curve Table: Quad NE-South

Curve #	Radius	Length	Start Point	End Point	Delta	Chord Direction	Chord Length
C15	110.00	20.11	(444832.73,1472766.19)	(444834.23,1472786.22)	010° 28' 32"	N4° 17' 32.04"E	20.08
C16	50.00	42.91	(444834.23,1472786.22)	(444850.92,1472824.34)	049° 10' 24"	N23° 38' 28.12"E	41.61

Line Table: Quad NE-South

Line #	Length	Direction	Start Point	End Point
L13	80.04	N48° 13' 39.52"E	(444850.92,1472824.34)	(444910.61,1472877.65)



Curve Table: Sawgrass Bay Blvd.

Curve #	Radius	Length	Start Point	End Point	Delta	Chord Direction	Chord Length
C1	1528.00	262.68	(444171.78,1473019.75)	(444408.83,1472907.34)	009° 50' 59"	S64° 37' 41.54"E	262.36

Line Table: Sawgrass Bay Blvd.

Line #	Length	Direction	Start Point	End Point
L1	148.13	S59° 42' 12.00"E	(444043.88,1473094.48)	(444171.78,1473019.75)
L2	338.49	S69° 33' 11.04"E	(444408.83,1472907.34)	(444725.99,1472789.09)

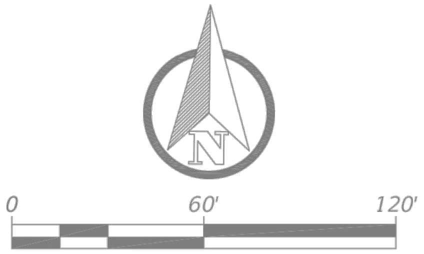
Curve Table: Quad NW-South

Curve #	Radius	Length	Start Point	End Point	Delta	Chord Direction	Chord Length
C4	115.00	87.25	(444545.53,1472827.56)	(444608.65,1472770.36)	043° 28' 14"	S47° 49' 04.27"E	85.17

Line Table: Quad NW-South

Line #	Length	Direction	Start Point	End Point
L4	27.48	S69° 33' 11.04"E	(444519.78,1472837.16)	(444545.53,1472827.56)
L5	38.21	S26° 04' 57.60"E	(444608.65,1472770.36)	(444625.45,1472736.04)

FOR REVIEW ONLY



Curve Table: Flemings Rd.

Curve #	Radius	Length	Start Point	End Point	Delta	Chord Direction	Chord Length
C5	1528.00	222.54	(444873.54,1472574.86)	(444990.62,1472385.84)	008° 20' 40"	S31° 46' 23.70"E	222.34

Line Table: Flemings Rd.

Line #	Length	Direction	Start Point	End Point
L6	250.46	S35° 56' 43.91"E	(444726.52,1472777.63)	(444873.54,1472574.86)
L7	100.00	S27° 35' 20.20"E	(444990.62,1472385.84)	(445036.93,1472297.21)

Curve Table: Quad SE-South

Curve #	Radius	Length	Start Point	End Point	Delta	Chord Direction	Chord Length
C7	50.00	37.39	(444727.83,1472674.46)	(444762.25,1472662.24)	042° 50' 40"	S70° 26' 39.05"E	36.52
C8	450.00	110.13	(444762.25,1472662.24)	(444835.77,1472580.62)	014° 01' 19"	S42° 00' 39.40"E	109.85
C9	1501.00	28.85	(444835.77,1472580.62)	(444852.08,1472556.83)	001° 06' 04"	S34° 26' 57.96"E	28.85

Curve Table: Quad SE-North

Curve #	Radius	Length	Start Point	End Point	Delta	Chord Directi
C6	120.00	95.02	(444849.98,1472653.35)	(444828.92,1472743.48)	045° 22' 11"	N13° 09' 17.86

Line Table: Quad SE-North

Line #	Length	Direction	Start Point	End Point
L8	23.03	N9° 31' 47.93"E	(444828.92,1472743.48)	(444832.73,1472766.19)
L9	94.58	N35° 56' 43.91"W	(444905.50,1472576.78)	(444849.98,1472653.35)

TOMAHAWK SURVEYING

Florida Licensed Business No. LB8449
115 Morningstar Drive
Punta Gorda, FL 33950
(941)-740-0733

DATE	JOB#	DWG	SCALE
06/19/2025	24-79	24-79 ASB	AS SHOWN

No. 49935

SIGNATURE
4/24/2024
DATE
JEFFREY J. EARHART P.E. NO. 49935

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

REVISION:	DATE

S. -24	T. -24S	R. -26E
SURVEYED: CM		DATE: 10/14/20
FIELD BOOK: 229		PAGE: 45-46, 51
DESIGNED: OEN		DATE: 4/24/2024
DRAWN: OEN		DATE: 4/24/2024
APPROVED: JE		DATE: 4/24/2024

SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
PROJECT CONTROL

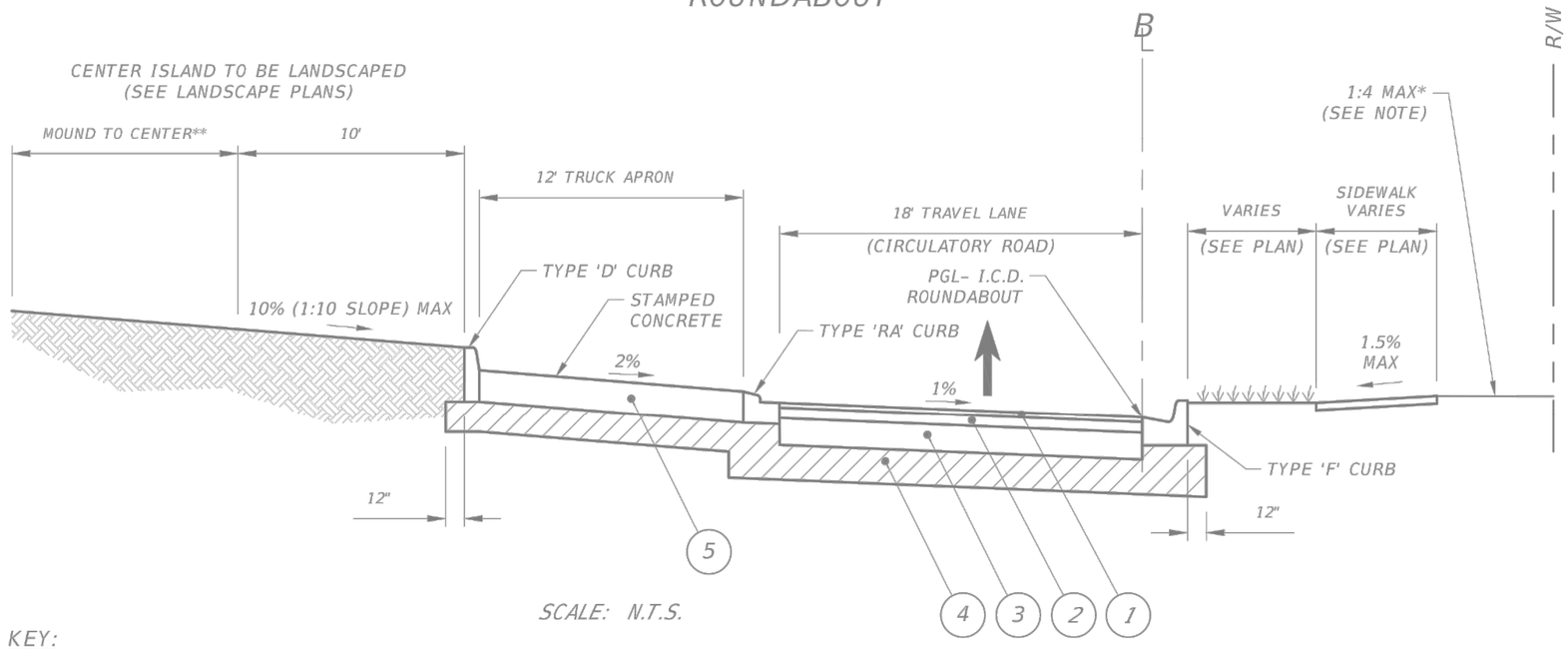
JOB NO.: 20032CA

SHEET: 9

O:\2020\20032_SAWGRASS_BAY_BLVD_ROUNDABOUT_TOPO\Engineering\Drawings\Plans\20032CA_SAWGRASS ROUNDABOUT_6.dwg PLOTTED BY: Nunez, Osvaldo 4/24/2024 8:41 AM

FOR REVIEW ONLY

TYPICAL ROAD SECTION
ROUNDABOUT



SCALE: N.T.S.

KEY:

1. 1" MIN. FICTION COURSE FC-9.5, ASPHALT TRAFFIC LEVEL C.
2. 2.5" MIN. STRUCTURAL COURSE, SP-12.5
3. 10" LIMEROCK, TO BE INSTALLED IN 2 LIFTS, 98% COMPACTION EACH LIFT, A.A.S.H.T.O. T-180, PRIMED AND SANDED.
4. 12" TYPE B STABILIZED SUBGRADE MIN. LBR 40, 98% COMPACTION, A.A.S.H.T.O. T-180
5. 12" THICK TRUCK APRON - 3,000 PSI CONCRETE WITH 6x6x$\frac{6}{6}$ WELDED WIRE FABRIC. COLOR: LAMBERT 10-285 RED 5-LBS

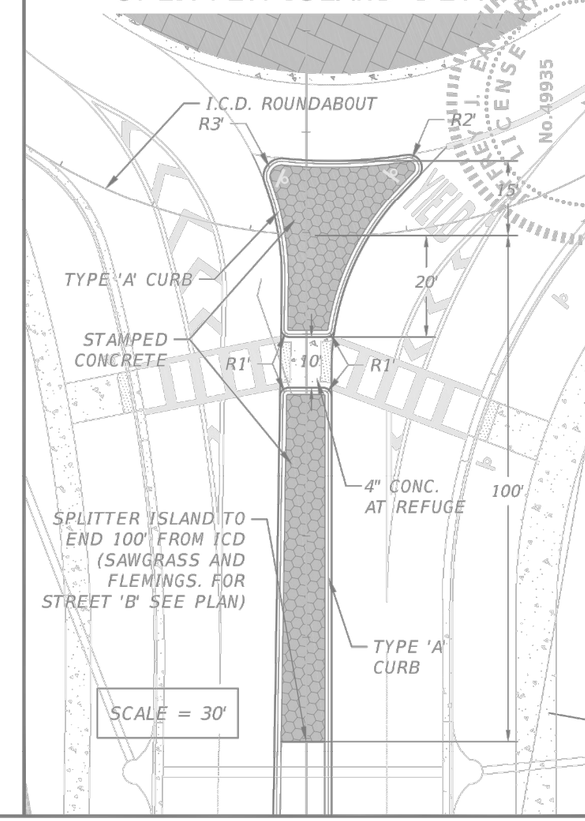
NOTES:

1. ALL STRIPING TO BE LEAD & SOLVENT FREE THERMOPLASTIC UNLESS OTHERWISE NOTED.
2. SOD ALL DISTURBED AREAS.
3. FINISH GRADE OF SHOULDER TO BE BELOW EDGE OF PAVEMENT TO ALLOW FOR SOD PER FDOT INDEX 570-010.
4. DESIGN SPEED IS 40 MPH. POST SPEED IS 35 MPH.

* TIE-IN SLOPE TO BE 1:4 MAX EXCEPT IN NW QUADRANT-NORTH SIDE (EXIT LANE) WHERE TIE-IN TO SURFACE NEEDS TO BE 1:8 MAX SLOPE TO PROVIDE COVER FOR DRAINAGE PIPE.

** HIGHEST POINT OF MOUND NOT TO EXCEED 6' ABOVE THE LOWEST ELEVATION OF CIRCULATORY ROADWAY AT RA CURB EDGE.

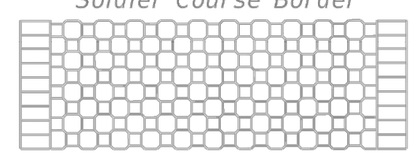
SPLITTER ISLAND DETAIL



STAMPED CONCRETE DETAIL

PAVEWAY SYSTEMS-PAVEWAY STONE-THERMO-SET (STS)
COLOR: LAMBERT 10-285 RED 5-LBS

Octagonal and Square with
Soldier Course Border



STAMPED CONCRETE PATTERN
NOT TO SCALE

NOTES:

1. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS (TCP) FOR APPROVAL PRIOR TO BEGINNING WORK. THE TCP SHALL MAINTAIN ONE LANE
PERIOD H
2. PRIOR TO
COORDINAT
THE TEXT
3. PATTERNE
OF TRANSP

TOMAHAWK SURVEYING
Florida Licensed Business No. LB8449
115 Morningstar Drive
Punta Gorda, FL 33950
(941)-740-0733

DATE	JOB#	DWG	SCALE
06/19/2025	24-79	24-79 ASB	AS SHOWN

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

STATE OF FLORIDA
PROFESSIONAL ENGINEER
JEFFREY J. EARHART
LICENSE No. 49935
SIGNATURE / DATE
JEFFREY J. EARHART P.E. NO. 49935

REVISION:	DATE

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DESIGNED: OEN	PAGE: 45-46, 51	
DRAWN: OEN	DATE: 4/24/2024	DATE: 4/24/2024
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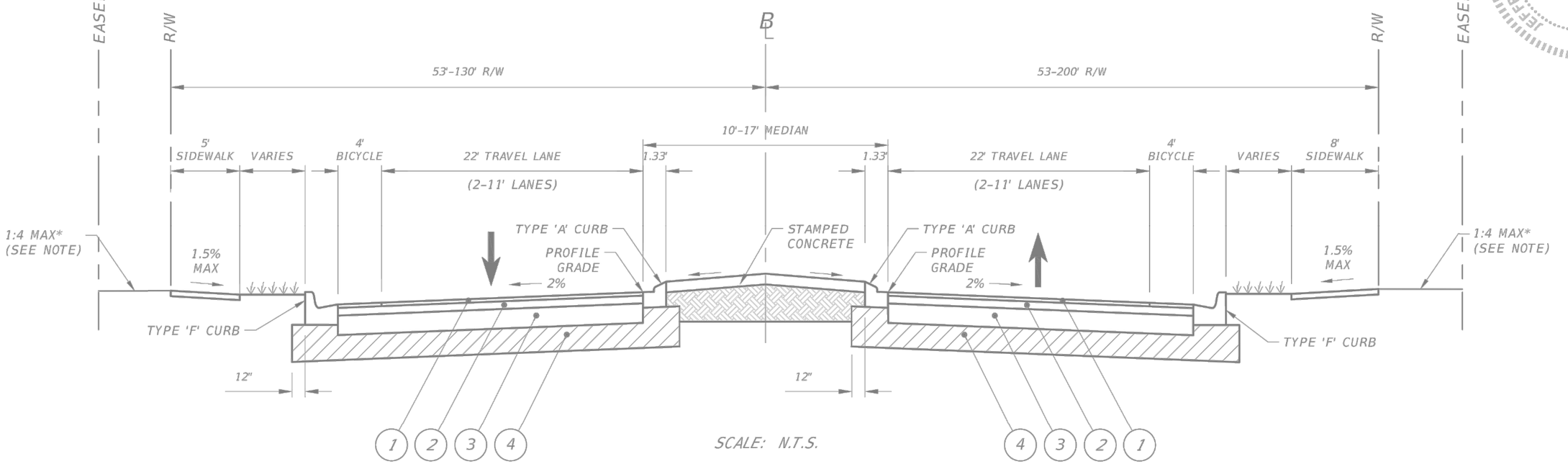
SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
ROUNDABOUT TYPICAL

JOB NO.: 20032CA
SHEET: 10

FOR REVIEW ONLY

TYPICAL ROAD SECTION
SAWGRASS BAY EXTENSION 4-LANE BLVD



SCALE: N.T.S.

KEY:

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2. 2.5" MIN. STRUCTURAL COURSE, SP-12.5
3. 10" LIMEROCK, TO BE INSTALLED IN 2 LIFTS, 98% COMPACTION EACH LIFT, A.A.S.H.T.O. T-180, PRIMED AND SANDED.
4. 12" TYPE B STABILIZED SUBGRADE MIN. LBR 40, 98% COMPACTION, A.A.S.H.T.O. T-180

NOTES:

1. ALL STRIPING TO BE LEAD & SOLVENT FREE THERMOPLASTIC UNLESS OTHERWISE NOTED.
2. SOD ALL DISTURBED AREAS.
3. FINISH GRADE OF SHOULDER TO BE BELOW EDGE OF PAVEMENT TO ALLOW FOR SOD PER FDOT INDEX 570-010.
4. DESIGN SPEED IS 40 MPH. POST SPEED IS 35 MPH.

* TIE-IN SLOPE TO BE 1:4 MAX EXCEPT IN NW QUADRANT NORTH SIDE (EXIT LANE) WHERE T
PROVIDE COVER FOR

TOMAHAWK SURVEYING
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JEFFREY J. EARHART
STATE OF FLORIDA
LICENSE No.49935
PROFESSIONAL ENGINEER
SIGNATURE DATE
JEFFREY J. EARHART P.E. NO. 49935

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

REVISION: DATE

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SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
SAWGRASS BAY BLVD TYPICAL

JOB NO.: 20032CA
SHEET: 11

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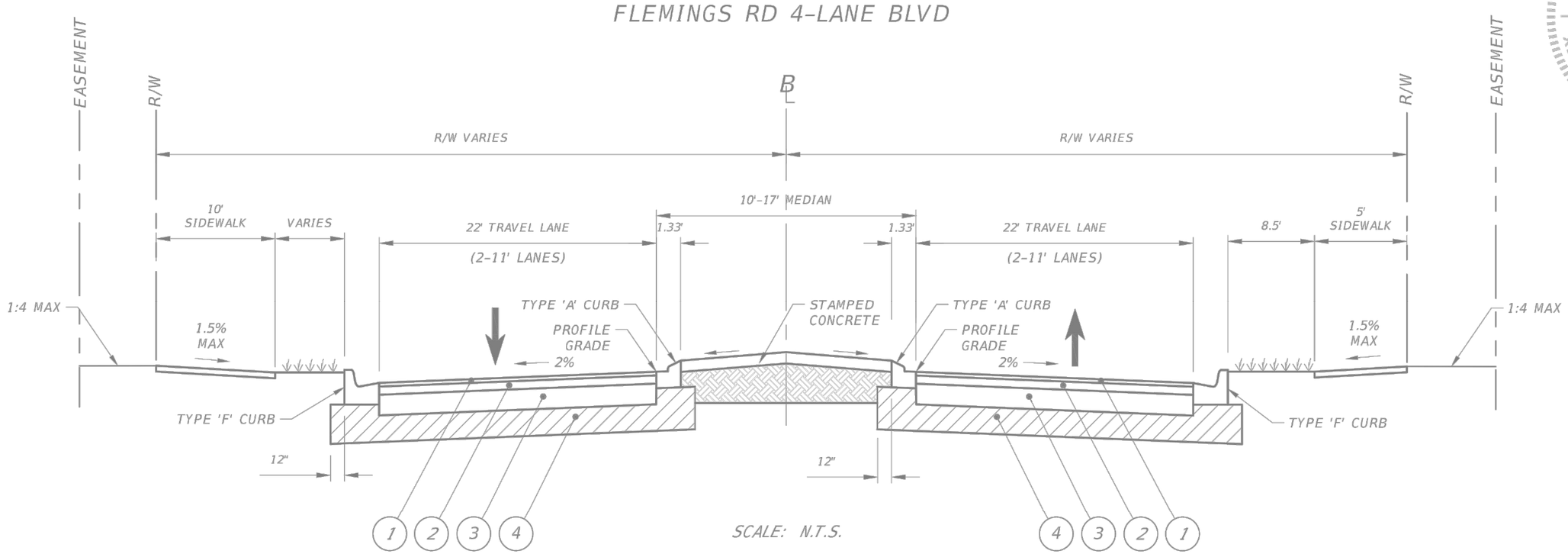
TYPICAL ROAD SECTION
FLEMINGS RD 4-LANE BLVD



SCALE: N.T.S.

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TOMAHAWK SURVEYING
Florida Licensed Business No. LB8449
115 Morningstar Drive
Punta Gorda, FL 33950
(941)-740-0733

DATE	JOB#	DWG	SCALE
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JEFFREY J. EARHART LICENSE No.49935 STATE OF FLORIDA PROFESSIONAL ENGINEER
SIGNATURE DATE
JEFFREY J. EARHART P.E. NO. 49935

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

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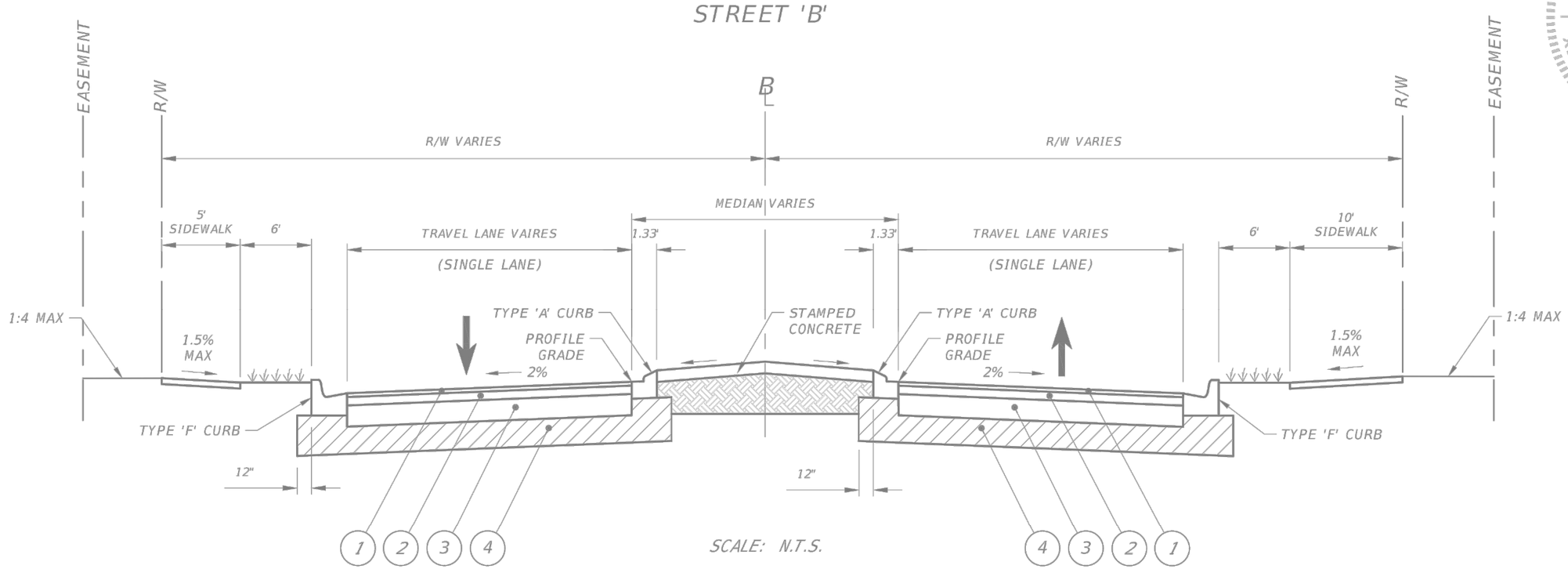
SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
FLEMINGS RD TYPICAL

JOB NO.: 20032CA
SHEET: 12

FOR REVIEW ONLY

TYPICAL ROAD SECTION
STREET 'B'



SCALE: N.T.S.

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TOMAHAWK SURVEYING
Florida Licensed Business No. LB8449
115 Morningstar Drive
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(941)-740-0733

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JEFFREY J. EARHART LICENSE No.49935 STATE OF FLORIDA PROFESSIONAL ENGINEER
SIGNATURE
DATE
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DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

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SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
STREET 'B' TYPICAL

JOB NO.: 20032CA
SHEET: 13

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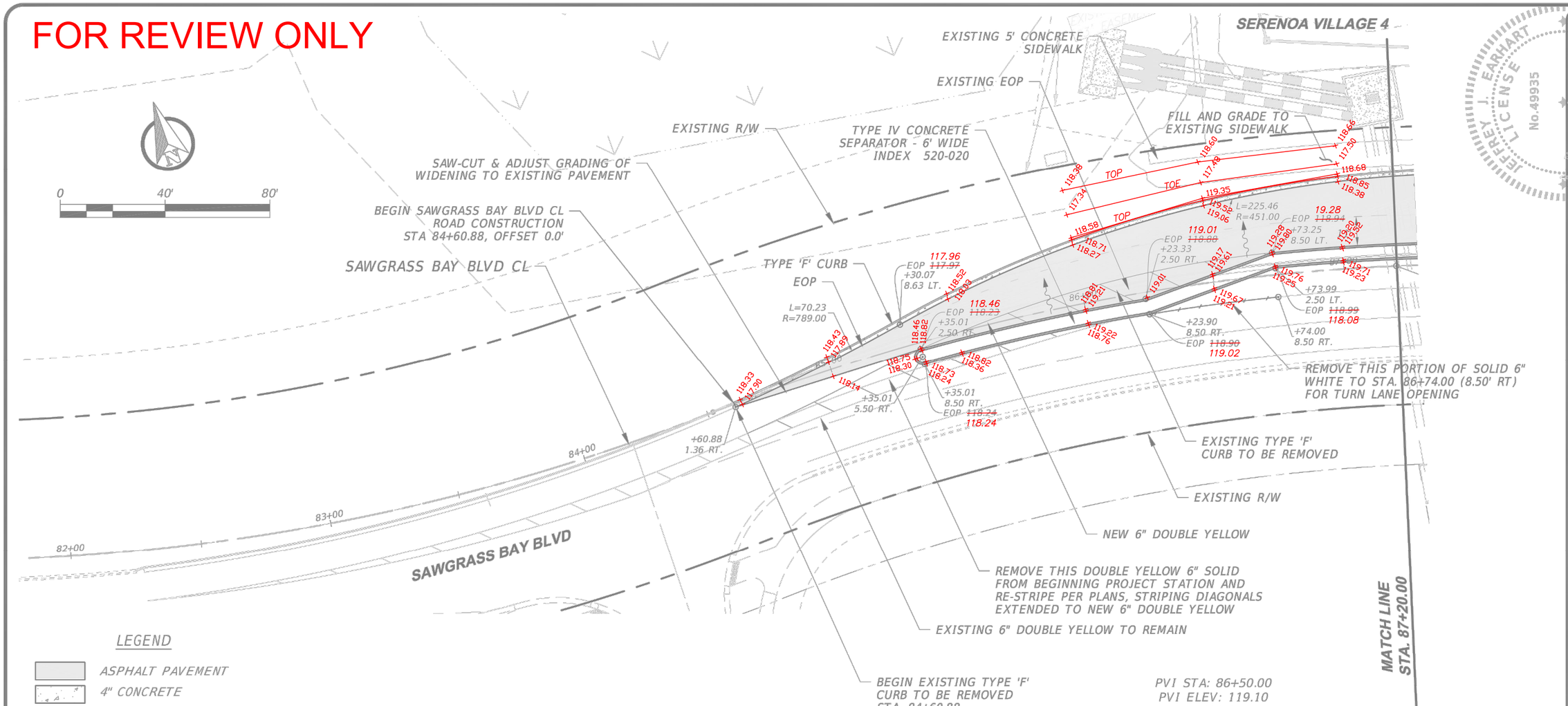
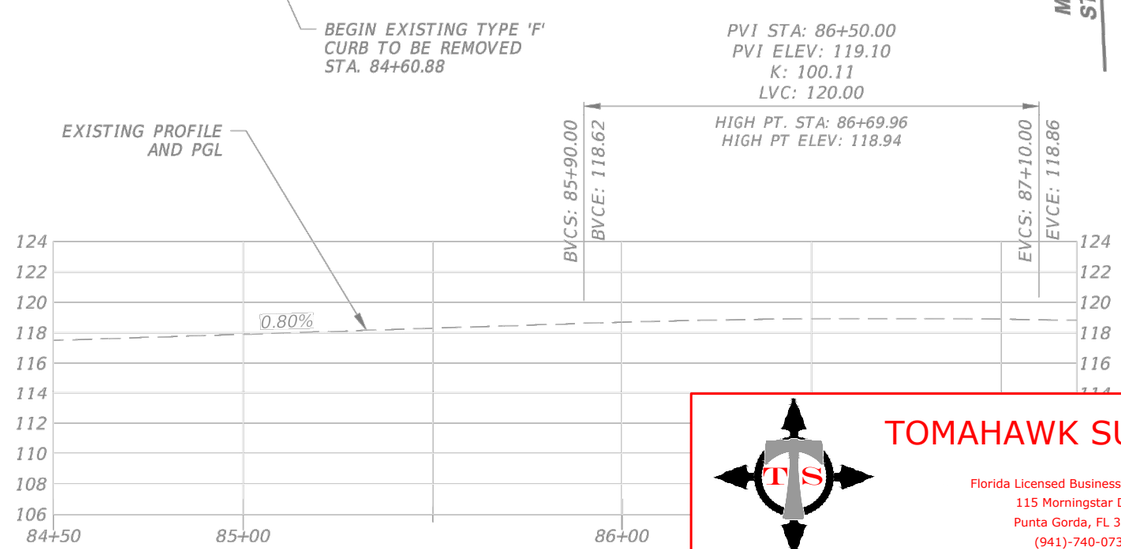


LEGEND

ASPHALT PAVEMENT

4" CONCRETE



TOMAHAWK SURVEYING

Florida Licensed Business No. LB8449
115 Morningstar Drive
Punta Gorda, FL 33950
(941)-740-0733

DATE	JOB#	DWG	SCALE
06/19/2025	24-79	24-79 ASB	AS SHOWN

JEFFREY J. EARHART LICENSE No.49935 STATE OF FLORIDA PROFESSIONAL ENGINEER

SIGNATURE / DATE
JEFFREY J. EARHART P.E. NO. 49935

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

REVISION:
DATE

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SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
SAWGRASS PLAN & PROFILE (1)

JOB NO.: 20032CA

SHEET: 14

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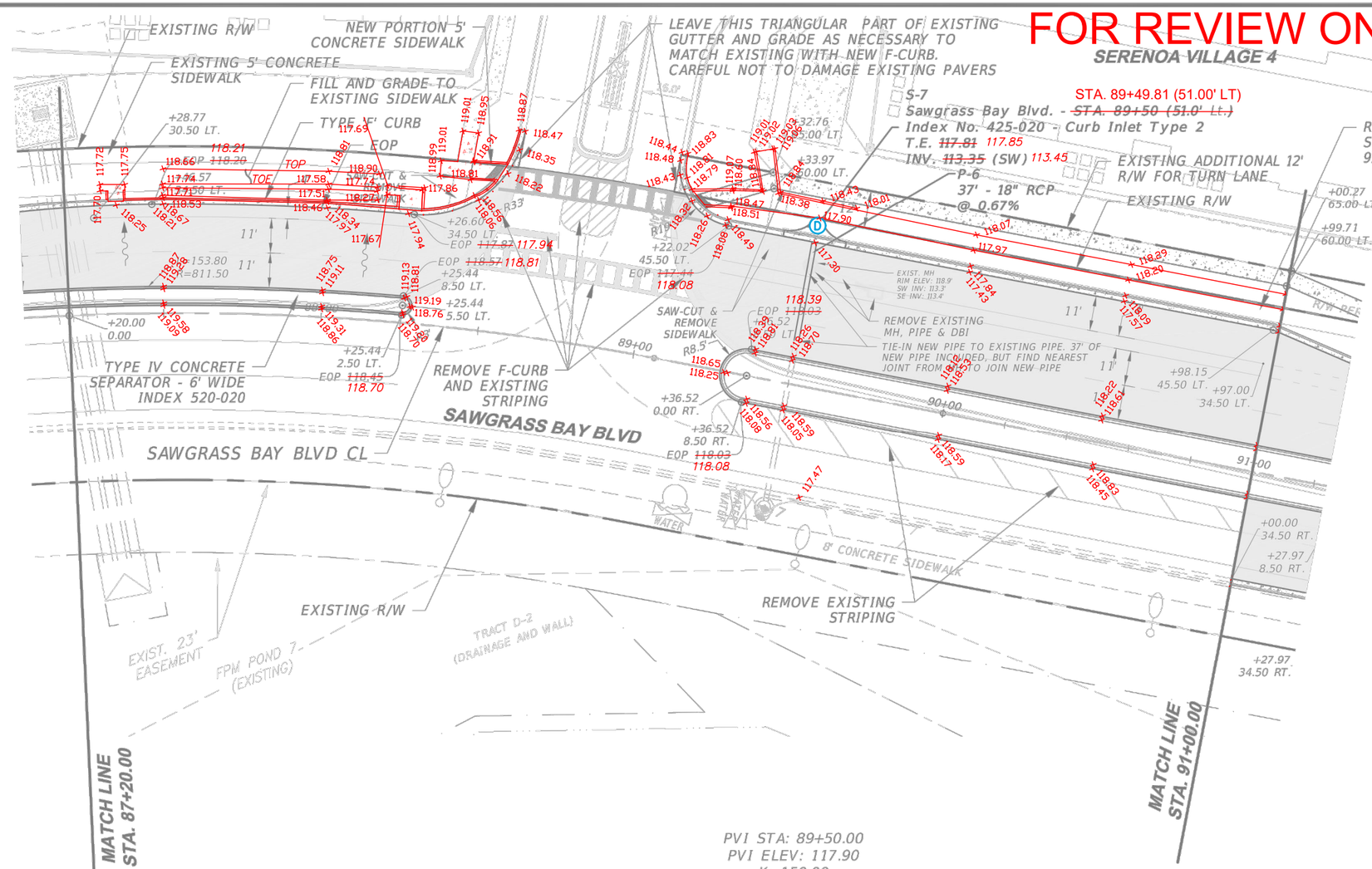
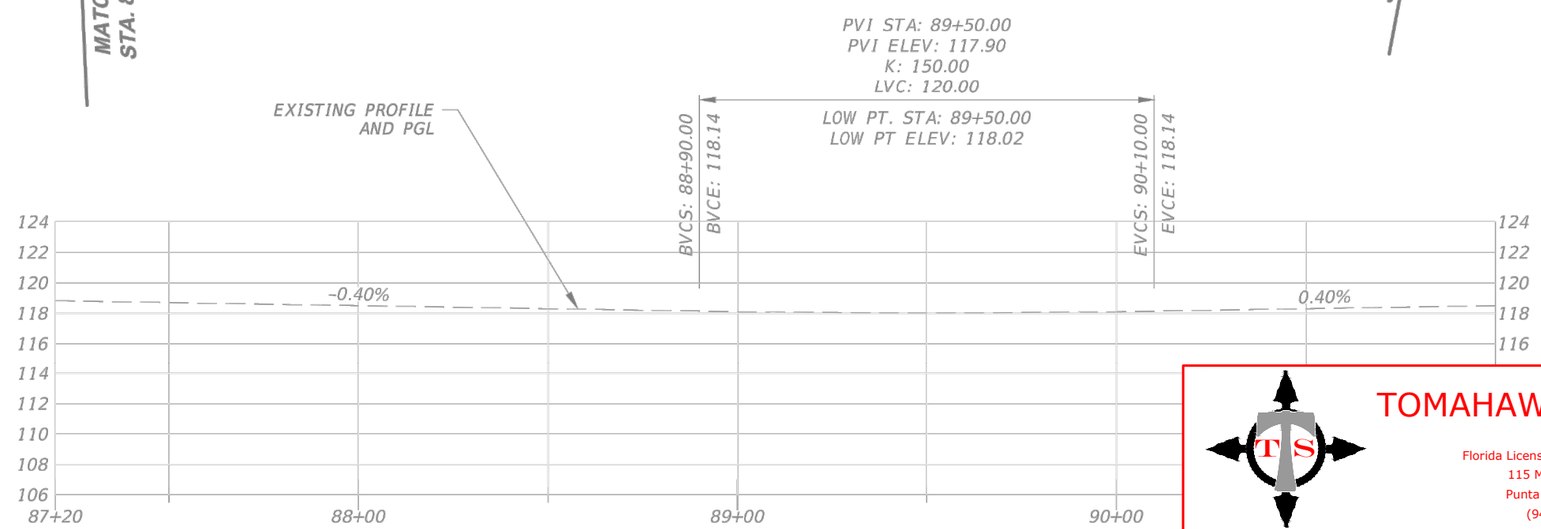


0 40' 80'

LEGEND

ASPHALT PAVEMENT

4" CONCRETE



TOMAHAWK SURVEYING

Florida Licensed Business No. LB8449
115 Morningstar Drive
Punta Gorda, FL 33950
(941)-740-0733

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DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

STATE OF FLORIDA PROFESSIONAL ENGINEER JEFFREY J. EARHART LICENSE NO. 49935

SIGNATURE / DATE
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SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
SAWGRASS PLAN & PROFILE (2)

JOB NO.: 20032CA

SHEET: 15

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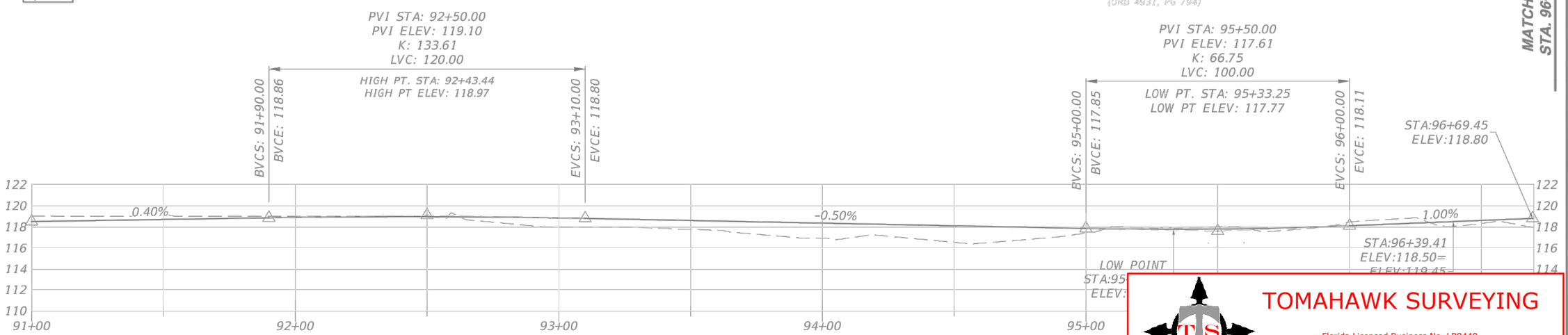
FOR REVIEW ONLY

REMOVE EXISTING 5' SIDEWALK TO STA. 91+54.22 (48.01 LT.)
5' CONCRETE SIDEWALK
TYPE 'F' CURB
EOP
TYPE 'A' CURB
PROPOSED R/W
SERENOA VILLAGE 4 POND 4-1
SAWGRASS BAY BLVD CL
EXISTING R/W
SAWGRASS BAY BLVD
MATCH LINE STA. 91+00.00
TYPE 'F' CURB
EOP
TYPE 'A' CURB
EXISTING 8' SIDEWALK TO BE REMOVED FROM STA. 92+51.39(48.60 RT.)
8' CONCRETE SIDEWALK
8' CONCRETE SIDEWALK
R/W PER ORB 4931, PG 828
23' WIDE GRADING, UTILITY & DRAINAGE EASEMENT (ORB 4931, PG 794)
EXIST. EOP
EXISTING R/W
POND 8 (EXISTING)
EXISTING CUL-DE-SAC & ROAD TO BE REMOVED FROM STA. 91+00.00
PRIVATE EASEMENT #4 FOR ENTRANCE MONUMENT & RELATED IMPROVEMENTS (ORB 4931, PG 794)
MATCH LINE STA. 96+78.00

LEGEND
ASPHALT PAVEMENT
4" CONCRETE

0 40' 80'



TOMAHAWK SURVEYING
Florida Licensed Business No. LB8449
115 Morningstar Drive
Punta Gorda, FL 33950
(941)-740-0733

DATE	JOB#	DWG	SCALE
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DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

STATE OF FLORIDA PROFESSIONAL ENGINEER EARHART No. 49935
SIGNATURE DATE
JEFFREY J. EARHART P.E. NO. 49935

REVISION:	DATE

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APPROVED: JE DATE: 4/24/2024

SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
SAWGRASS PLAN & PROFILE (3)

JOB NO.: 20032CA
SHEET: 16

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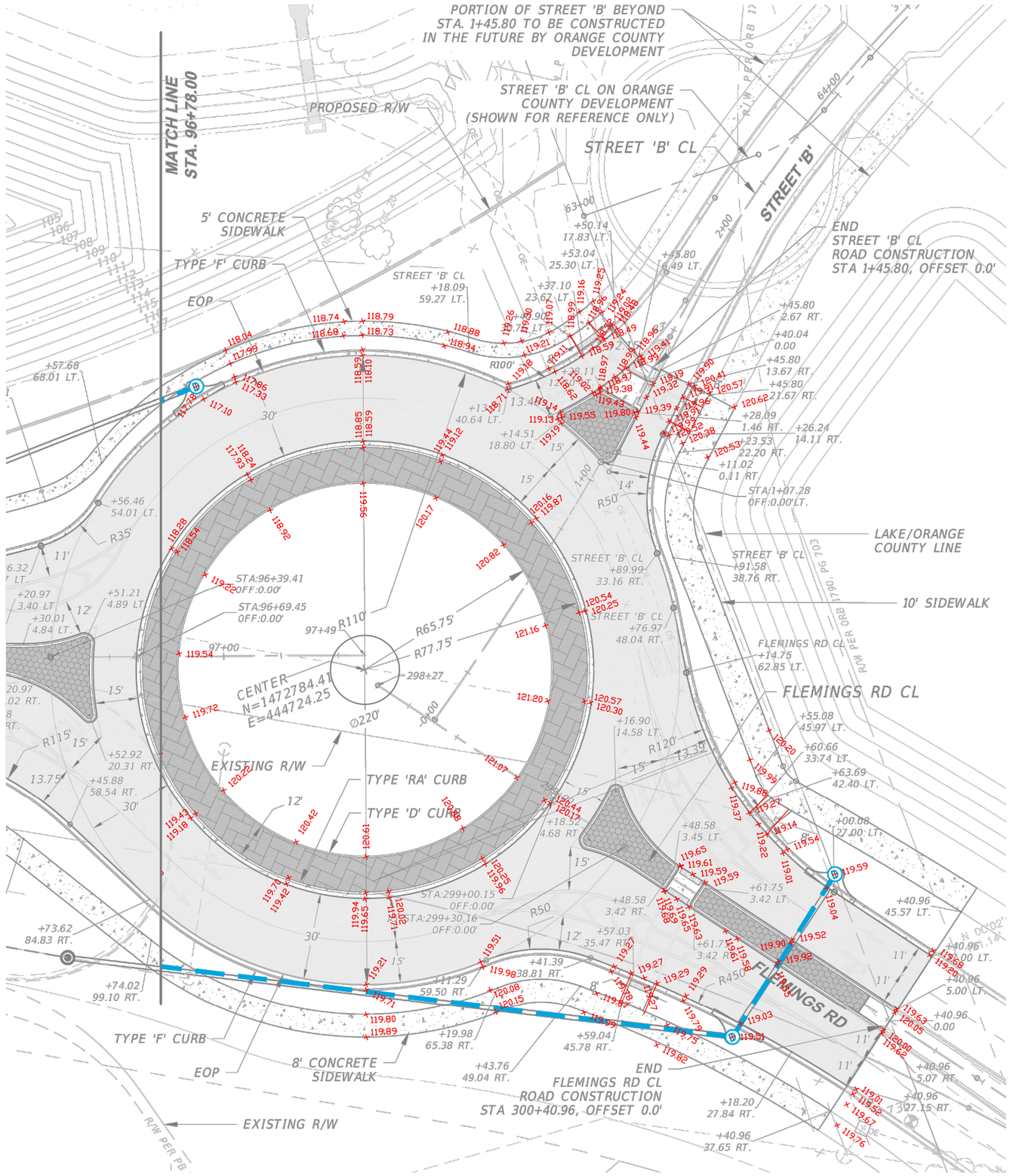
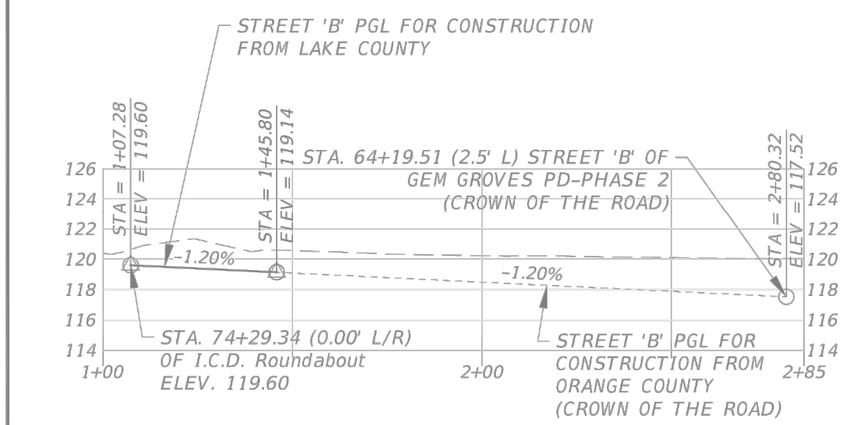


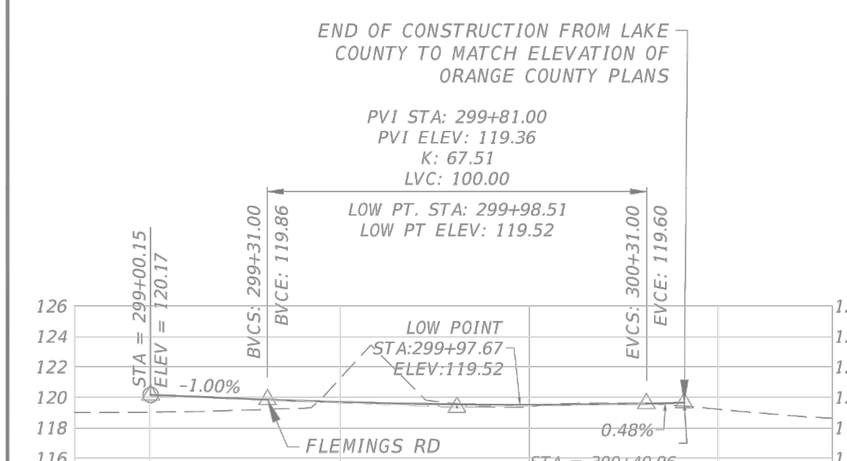
LEGEND

- ASPHALT PAVEMENT
- 4" CONCRETE

0 40' 80'



ARM 3 - STREET 'B' PROFILE



A

TOMAHAWK SURVEYING

Florida Licensed Business No. LB8449
115 Morningstar Drive
Punta Gorda, FL 33950
(941)-740-0733

DATE	JOB#	DWG	SCALE
06/19/2025	24-79	24-79 ASB	AS SHOWN

STATE OF FLORIDA PROFESSIONAL ENGINEER JEFFREY J. EARHART LICENSE No.49935

SIGNATURE	DATE
	4/24/2024

JEFFREY J. EARHART P.E. NO. 49935

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

REVISION:	DATE

S. -24	T. -24S	R. - 26E
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DATE: 10/14/20		
DESIGNED: OEN	DATE: 4/24/2024	
DRAWN: OEN	DATE: 4/24/2024	
APPROVED: JE	DATE: 4/24/2024	

SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
RA FLEMINGS PLAN & PROFILE

JOB NO.: 20032CA

SHEET: 17

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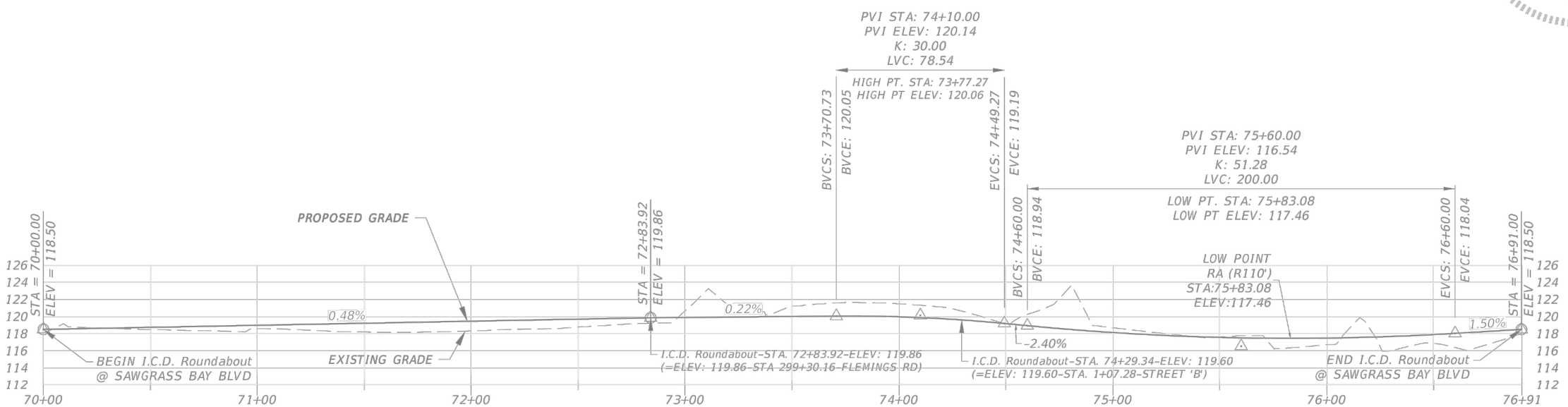

I.C.D. ROUNDABOUT PROFILE

TOMAHAWK SURVEYING

Florida Licensed Business No. LB8449
115 Morningstar Drive
Punta Gorda, FL 33950
(941)-740-0733

DATE	JOB#	DWG	SCALE
06/19/2025	24-79	24-79 ASB	AS SHOWN

JEFFREY J. EARHART
STATE OF FLORIDA
LICENSE
No.49935
PROFESSIONAL ENGINEER
SIGNATURE
DATE
JEFFREY J. EARHART P.E. NO. 49935

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

REVISION: DATE

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SURVEYED: CM DATE: 10/14/20
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DESIGNED: OEN DATE: 4/24/2024
DRAWN: OEN DATE: 4/24/2024
APPROVED: JE DATE: 4/24/2024

SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
I.C.D. ROUNDABOUT PROFILE

JOB NO.: 20032CA

SHEET: 18

O:\2020\20032_SAWGRASS_BAY_BLVD_ROUNDABOUT_TOPO\Engineering\Drawings\Plans\20032CA_SAWGRASS ROUNDABOUT_6.dwg PLOTTED BY: Nunez, Osvaldo 4/24/2024 8:48 AM

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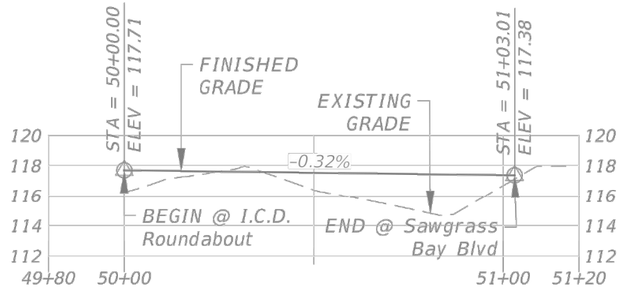
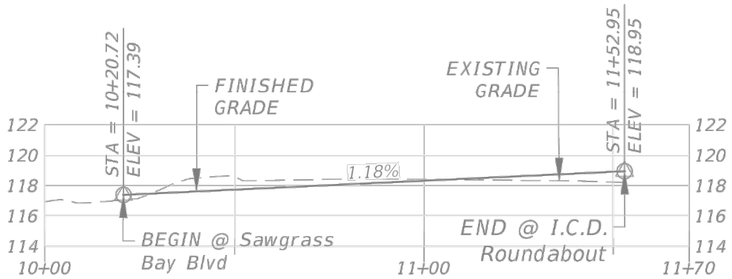


QUAD NW-North PROFILE



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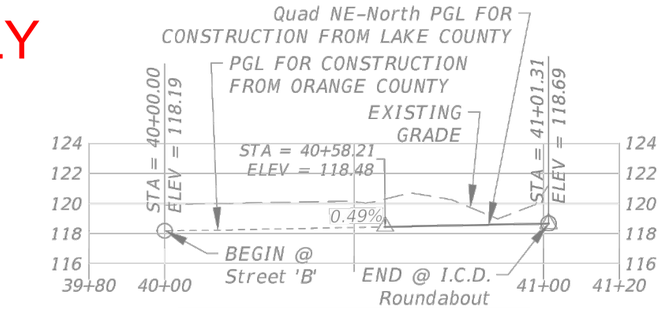

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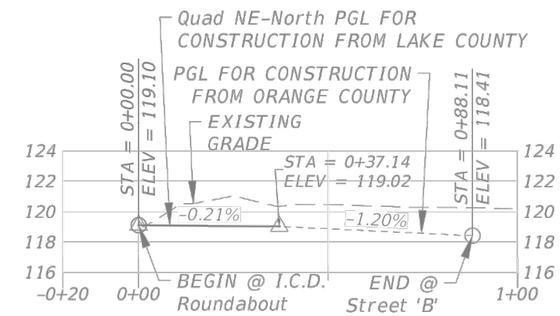
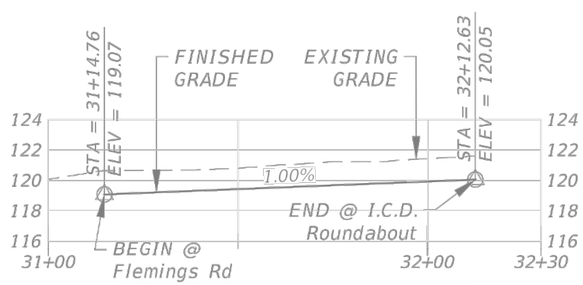
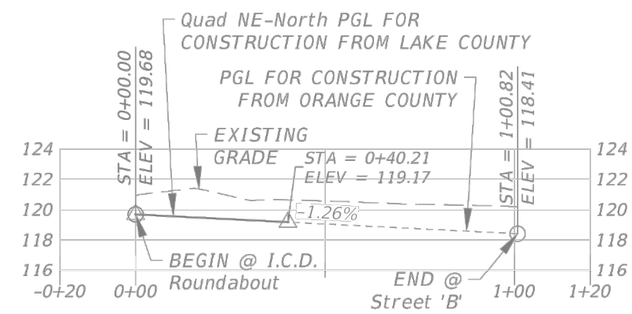


Quad NE-North inside EOP PROFILE

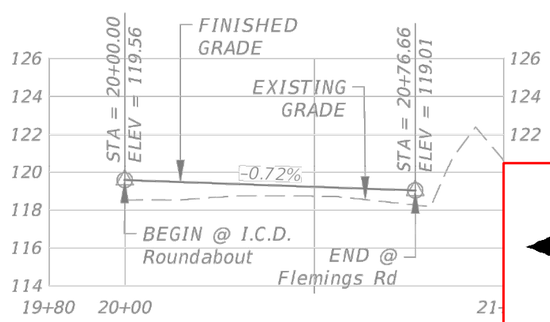
PROFILE SCALE
HORIZ. SCALE 1"=40'
VERT. SCALE 1"=10'



QUAD SE-North PROFILE



Quad NE-South inside EOP PROFILE



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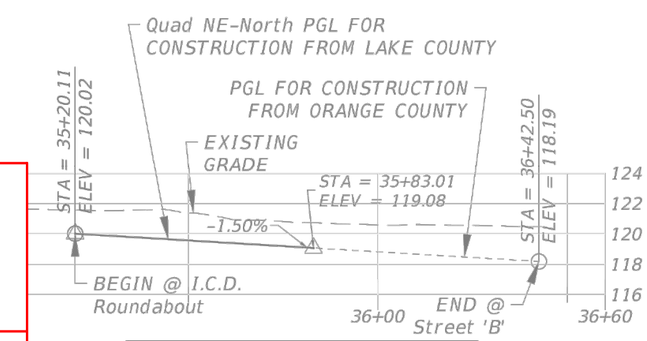

QUAD NE-South PROFILE

TOMAHAWK SURVEYING
Florida Licensed Business No. LB8449
115 Morningstar Drive
Punta Gorda, FL 33950
(941)-740-0733

DATE	JOB#	DWG	SCALE
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JEFFREY J. EARHART LICENSE No.49935 STATE OF FLORIDA PROFESSIONAL ENGINEER

JEFFREY J. EARHART P.E. NO. 49935

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

REVISION:	DATE

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APPROVED: JE		DATE: 4/24/2024

SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
QUADRANT PROFILES

JOB NO.: 20032CA

SHEET: 19

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S-2
STA. 95+32.96 (33.81' Lt)
Sawgrass Bay Blvd. - ~~STA. 95+33 (33.0' Lt.)~~
Index No. 425-020 - Curb Inlet Type 2
T.E. ~~117.86~~ 117.86
INV. ~~112.85~~ (S) 112.77
INV. ~~112.85~~ (E) 112.78

S-3
Sawgrass Bay Blvd. - ~~STA. 96+90 (93.9' Lt.)~~
Index No. 425-STA. 96+90.68 (94.40' Lt)
T.E. ~~117.82~~ 117.78
INV. ~~113.35~~ (W) 113.22

STA. 75+81.74 (0.23 Rt)
ICD Sta. ~~75+83.08, 0.00'~~
Low Point
EL ~~117.46~~
117.10

SAWGRASS BAY BLVD CL

SAWGRASS BAY BLVD

P-3
169 ~~167'~~ - 18" RCP
@ ~~0.30%~~
0.26%

P-2
66 ~~66'~~ - 14"x23" ERCP
@ ~~0.30%~~ 0.28%

Lowest Pt. on
Circulatory Roadway
EL ~~117.76~~
117.93

EL ~~117.71~~
117.58

EL ~~118.69~~
118.71

STREET 'B'

S-1
Sawgrass Bay Blvd.
~~STA. 95+33 (32.5' Rt.)~~
STA. 95+33.00 (32.48' Rt)
Curb Inlet Type 2
T.E. ~~117.86~~ 117.80
INV. ~~112.65~~ (N) 112.59
INV. ~~112.65~~ (S) 112.60

REMOVE EXIST.
INLET & PIPE

CONCRETE SIDEWALK

EL ~~118.22~~
118.92 @BC

119.54 @BC
EL ~~119.21~~

118.97
EL ~~119.90~~

118.63 @BC
EL ~~118.77~~

120.82 @BC
EL ~~120.36~~

CENTER
N=1472784.41
E=444724.25

ES-1
Sawgrass Bay Blvd.
STA. 95+38 (85.7' Rt.)
STA. 95+38.74 (86.29' Rt)
Type 7 Manhole
T.E. ~~117.90~~ 117.95
INV. ~~112.50~~ (N) 112.41
INV. ~~112.50~~ (SE) 112.37
Exis. INV. ~~112.40~~ (SW) 112.37

P-1
54 ~~53'~~ - 18" RCP
@ ~~0.28%~~
0.35%

EL ~~118.95~~
118.77

EL 120.02
ICD Sta. 73+77.21, 0.00'
High Point
EL 120.06

EL 120.05

121.16 @BC
EL ~~120.81~~
EL ~~120.36~~
120.25

EXIST. MH's & PIPE
UNDER GROUND TO
BE REMOVED

EL ~~119.66~~ 120.22 @BC
EL ~~119.20~~ 119.18
EL ~~120.40~~ 120.88 @BC
EL ~~119.94~~
119.96

121.07 @BC
EL ~~120.61~~
EL ~~120.16~~
120.17

EXIST. PIPE AND
M.E.S. TO REMAIN

REMOVE TYPE 2 INLET
ENTRANCE OF EXISTING INLET
AND LEAVE AS A MANHOLE

EL ~~118.95~~
118.90

NOTE: DRAINAGE C
STA. 91+00.00 IS O
AND NEW STRUCTU
SEE PLAN & PROFI
THOSE DETAILS

R/W PER ORB 1790, PG 703

EXISTING PIPE @ 0.48% PER
SAWGRASS BAY BLD. AS-BUILTS -
MADDEN MAY 7TH, 2020

FLEMINGS RD CL

STA. 96+45.72 (104.18' Rt) S-6
Sawgrass Bay Blvd. - ~~STA. 96+45 (105.0' Rt.)~~
Index No. 425-001 - Type 7 Manhole
T.E. ~~117.88~~ 118.73
INV. ~~113.02~~ (SE) 113.02
INV. ~~113.02~~ (NW) 112.79

P-5
233 ~~234'~~ - 18" RCP
@ ~~0.42%~~
0.39%

EL ~~119.56~~
119.51

S-4
STA. 299+96.79 (32.55' Lt)
Flemings Rd. - ~~STA. 299+98 (32.5' Lt.)~~
Index No. 425-020 - Curb Inlet Type 2
T.E. ~~119.61~~ 119.59
INV. ~~114.42~~ (SW) 114.33

EXISTING PIPE INVERT TO
APROXIMATELY ~~113.02~~, 113.02
STRUCTURE S-6 TO BE DOGHOUSE
AND ADJUST IN FIELD AS NECESSARY

R/W PER PB 74, PG 65

STA. 299+98.08 (34.71' Rt) S-5
Flemings Rd. - ~~STA. 299+98 (35.0' Rt.)~~
Curb Inlet Type 2
Index No. 425-020
T.E. ~~119.56~~ 119.51
INV. ~~114.00~~ (NW) 113.93
INV. ~~114.10~~ (NE) 113.92

P-4
67 ~~67'~~ - 18" RCP
@ ~~0.47%~~
0.61%

REMOVE PORTION OF
EXISTING PIPE THAT
WILL NOT BE USED
(43' ±)

R/W PER PB 74, PG 65

FLEMINGS RD

742

0 40' 80'

TOMAHAWK SURVEYING
Florida Licensed Business No. LB8449
115 Morningstar Drive
Punta Gorda, FL 33950
(941)-740-0733

SCALE AS SHOWN
DWG 24-79 ASB
JOB# 24-79
DATE 06/19/2025

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

JEFFREY J. EARHART
STATE OF FLORIDA
PROFESSIONAL ENGINEER
LICENSE No.49935
SIGNATURE DATE
JEFFREY J. EARHART P.E. NO. 49935

REVISION: DATE

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APPROVED: JE	DATE: 4/24/2024	

SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
DRAINAGE & GRADING DETAIL

JOB NO.: 20032CA
SHEET: 20

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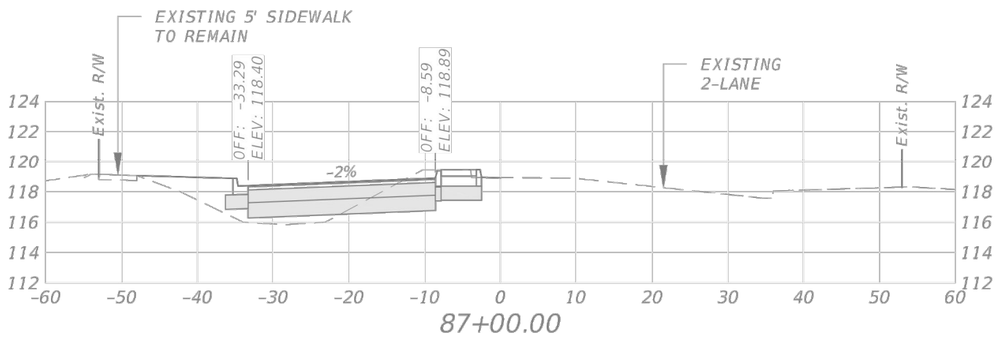

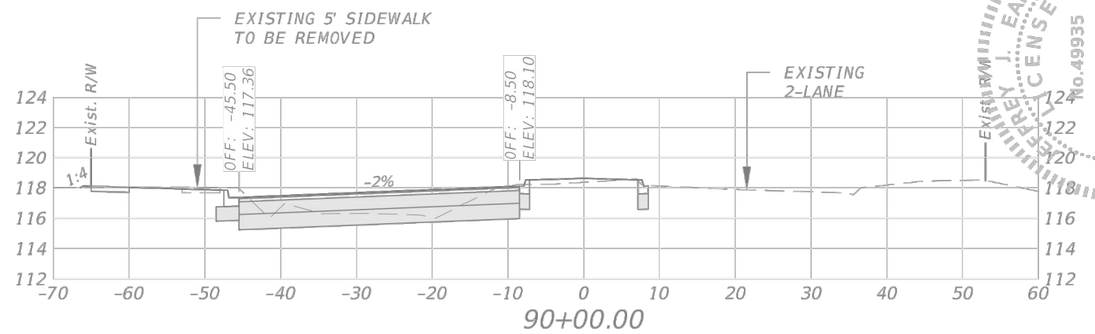

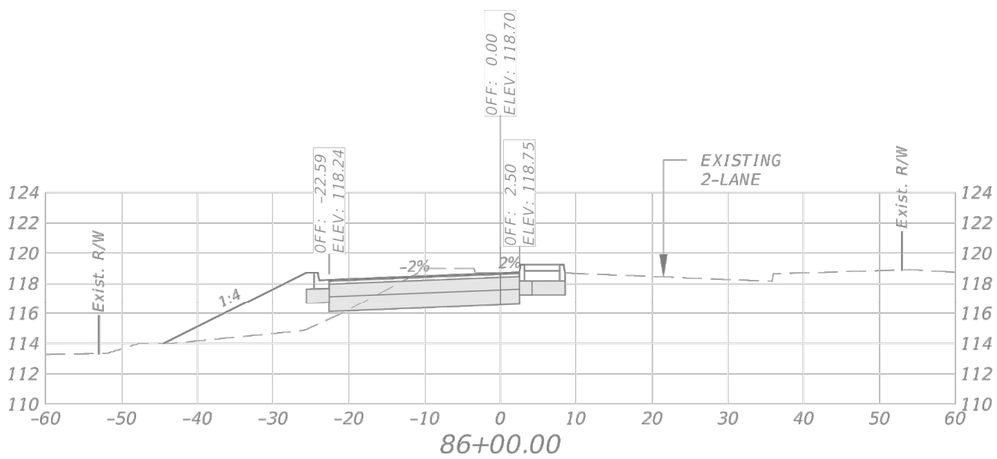

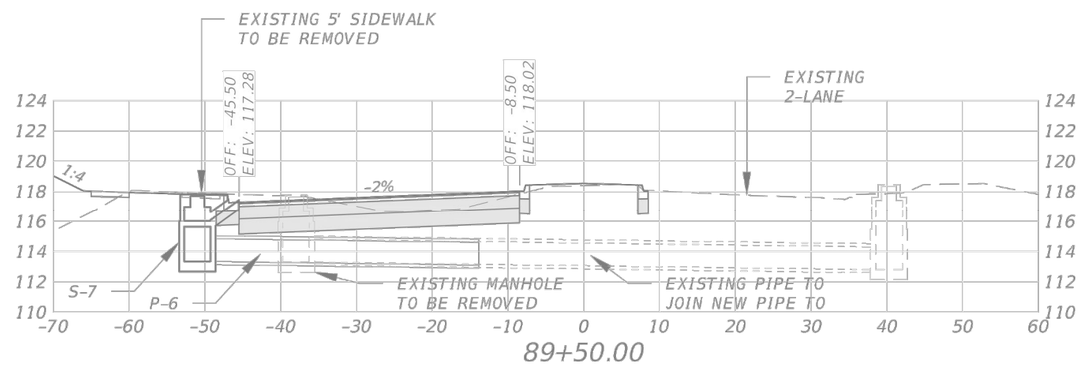

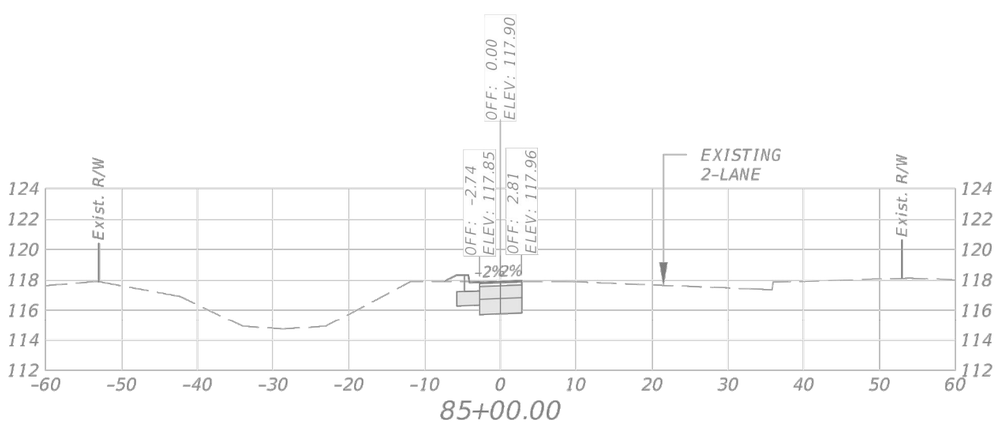

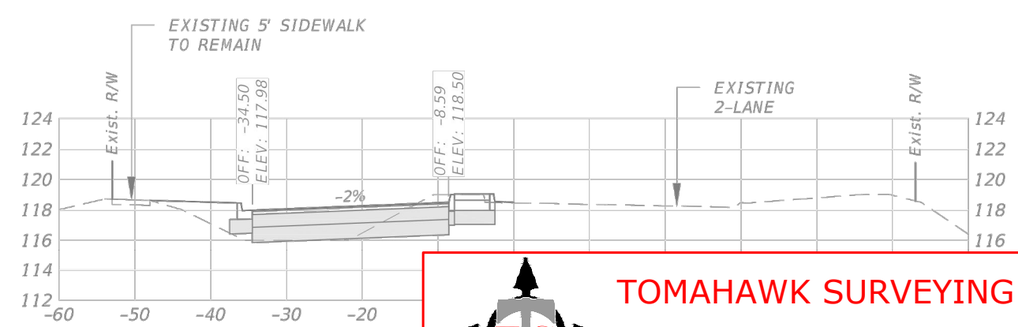

CROSS SECTION SCALE
HORIZ. SCALE 1"=20'
VERT. SCALE 1"=10'

TOMAHAWK SURVEYING
Florida Licensed Business No. LB8449
115 Morningstar Drive
Punta Gorda, FL 33950
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DATE	JOB#	DWG	SCALE
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STATE OF FLORIDA PROFESSIONAL ENGINEER JEFFREY J. EARHART No.49935

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DEPARTMENT OF PUBLIC WORKS
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SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
SAWGRASS CROSS SECTIONS (1)

JOB NO.: 20032CA
SHEET: 21

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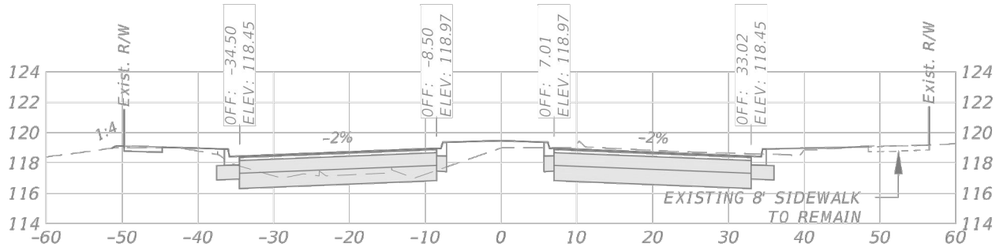

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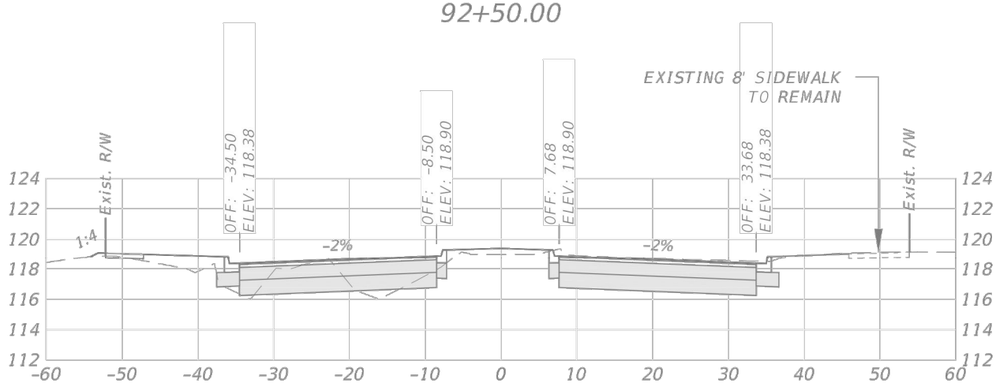

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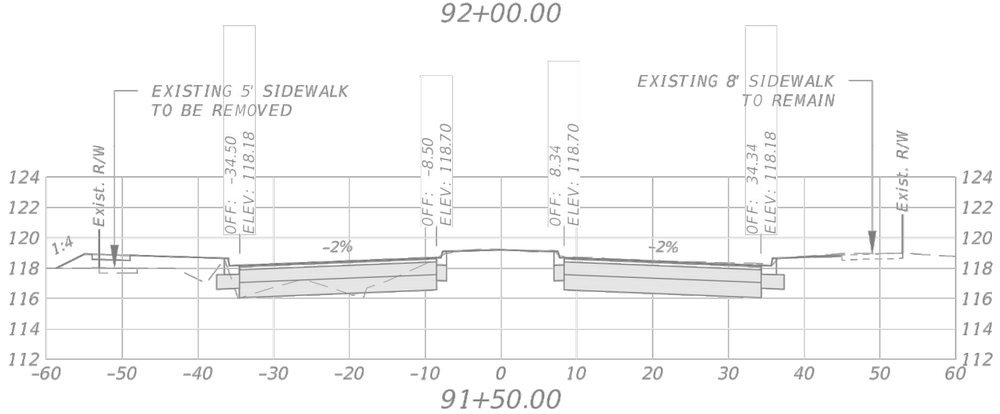

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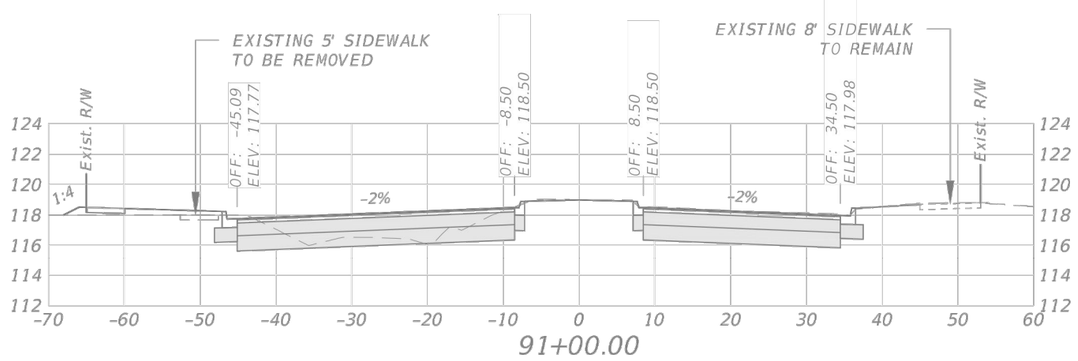

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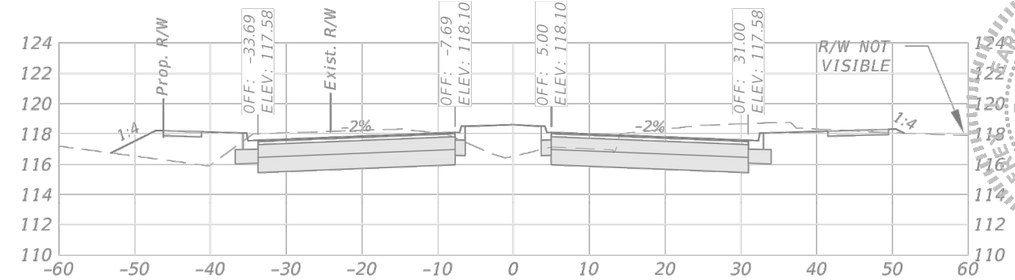

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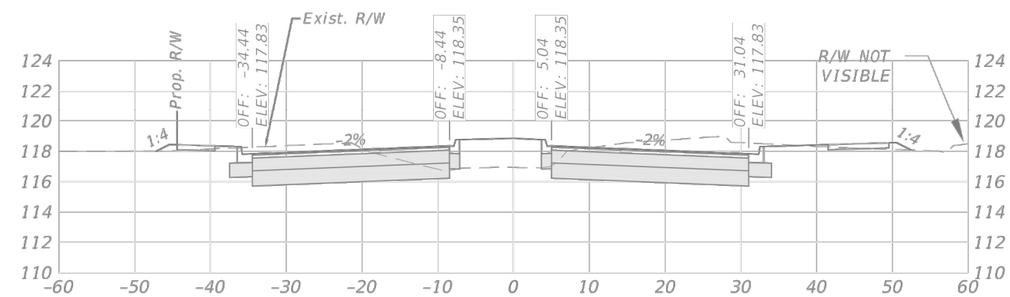

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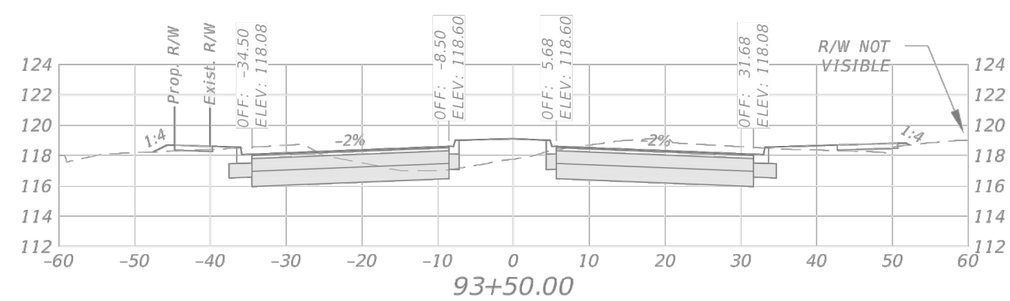

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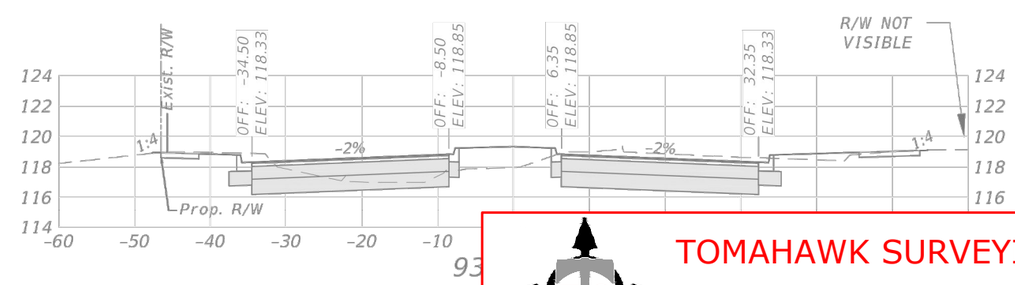

93

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CROSS SECTION SCALE
HORIZ. SCALE 1"=20'
VERT. SCALE 1"=10'

TOMAHAWK SURVEYING
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SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
SAWGRASS CROSS SECTIONS (2)

JOB NO.: 20032CA
SHEET: 22

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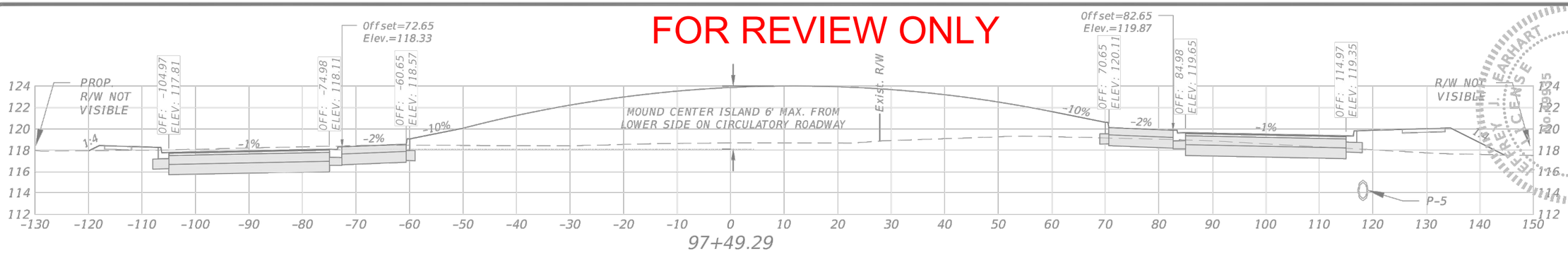
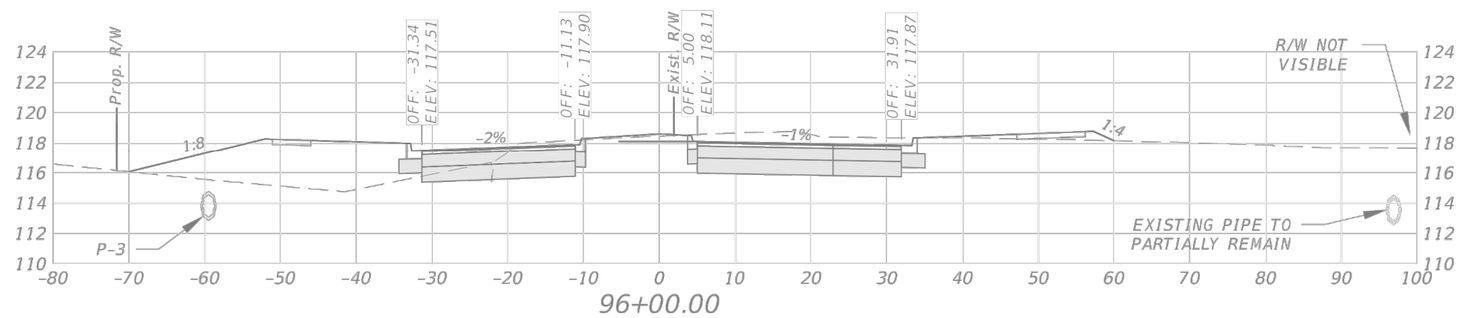
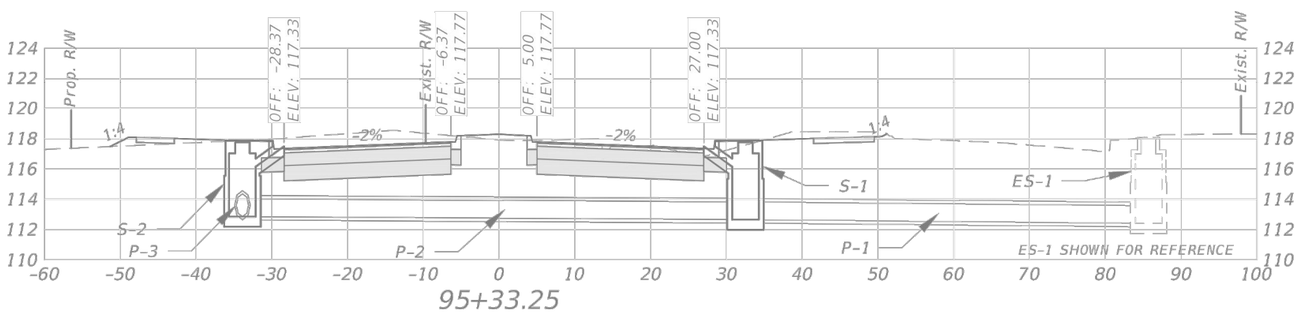
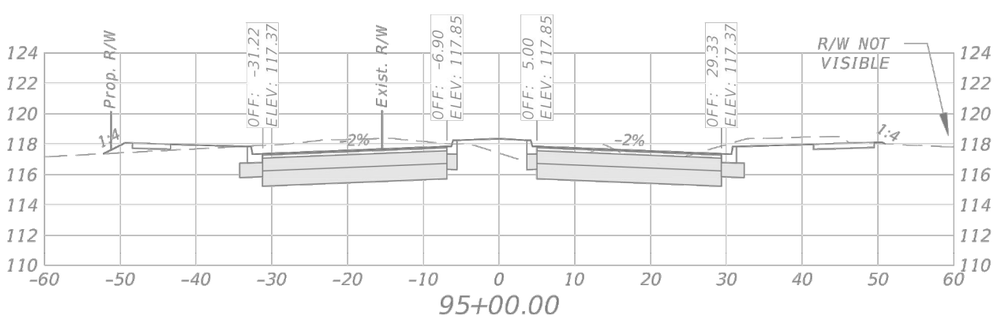
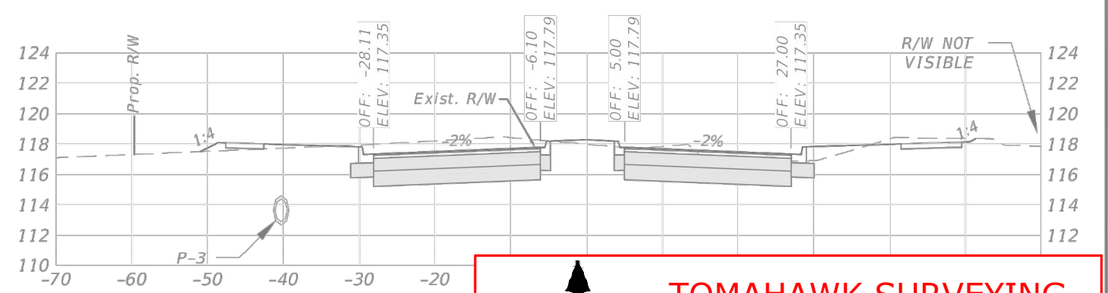










CROSS SECTION SCALE
HORIZ. SCALE 1"=20'
VERT. SCALE 1"=10'

TOMAHAWK SURVEYING
Florida Licensed Business No. LB8449
115 Morningstar Drive
Punta Gorda, FL 33950
(941)-740-0733

DATE	JOB#	DWG	SCALE
06/19/2025	24-79	24-79 ASB	AS SHOWN

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

JEFFREY J. EARHART
STATE OF FLORIDA
PROFESSIONAL ENGINEER
LICENSE NO. 49935
SIGNATURE
DATE
JEFFREY J. EARHART P.E. NO. 49935

REVISION:
DATE

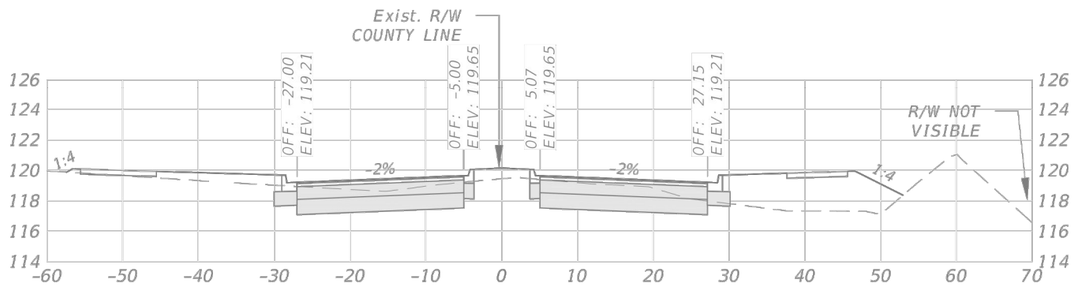
S. -24	T. -24S	R. -26E
SURVEYED: CM	FIELD BOOK: 229	DATE: 10/14/20
		PAGE: 45-46, 51
DESIGNED: OEN		DATE: 4/24/2024
DRAWN: OEN		DATE: 4/24/2024
APPROVED: JE		DATE: 4/24/2024

SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
SAWGRASS CROSS SECTIONS (3)

JOB NO.: 20032CA
SHEET: 23

FLEMINGS RD

CROSS SECTIONS



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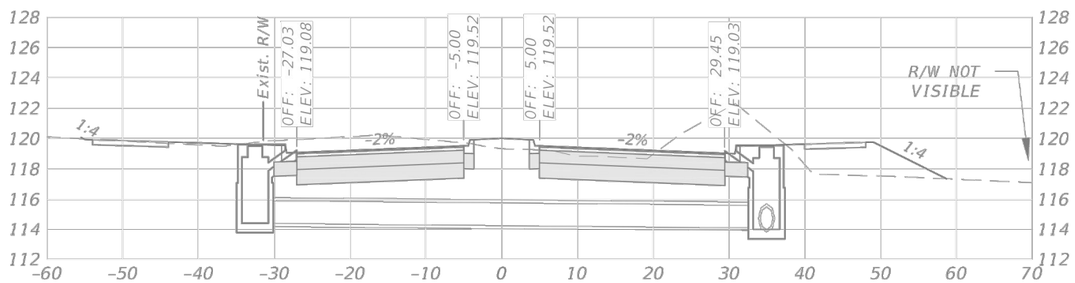

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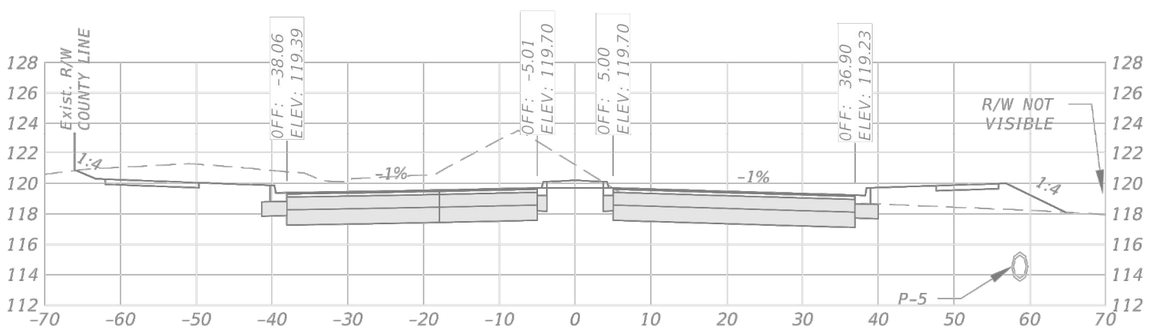

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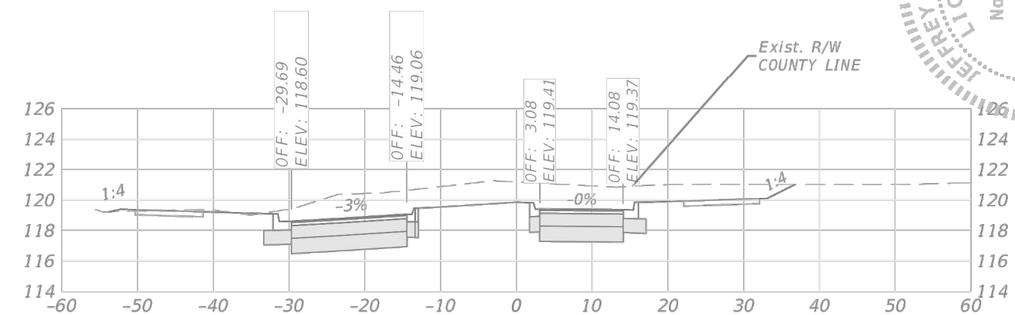
STREET 'B'

CROSS SECTION



1+27.00

FOR REVIEW ONLY

TOMAHAWK SURVEYING

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115 Morningstar Drive
Punta Gorda, FL 33950
(941)-740-0733

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JEFFREY J. EARHART
LICENSE
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DEPARTMENT OF PUBLIC WORKS
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LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

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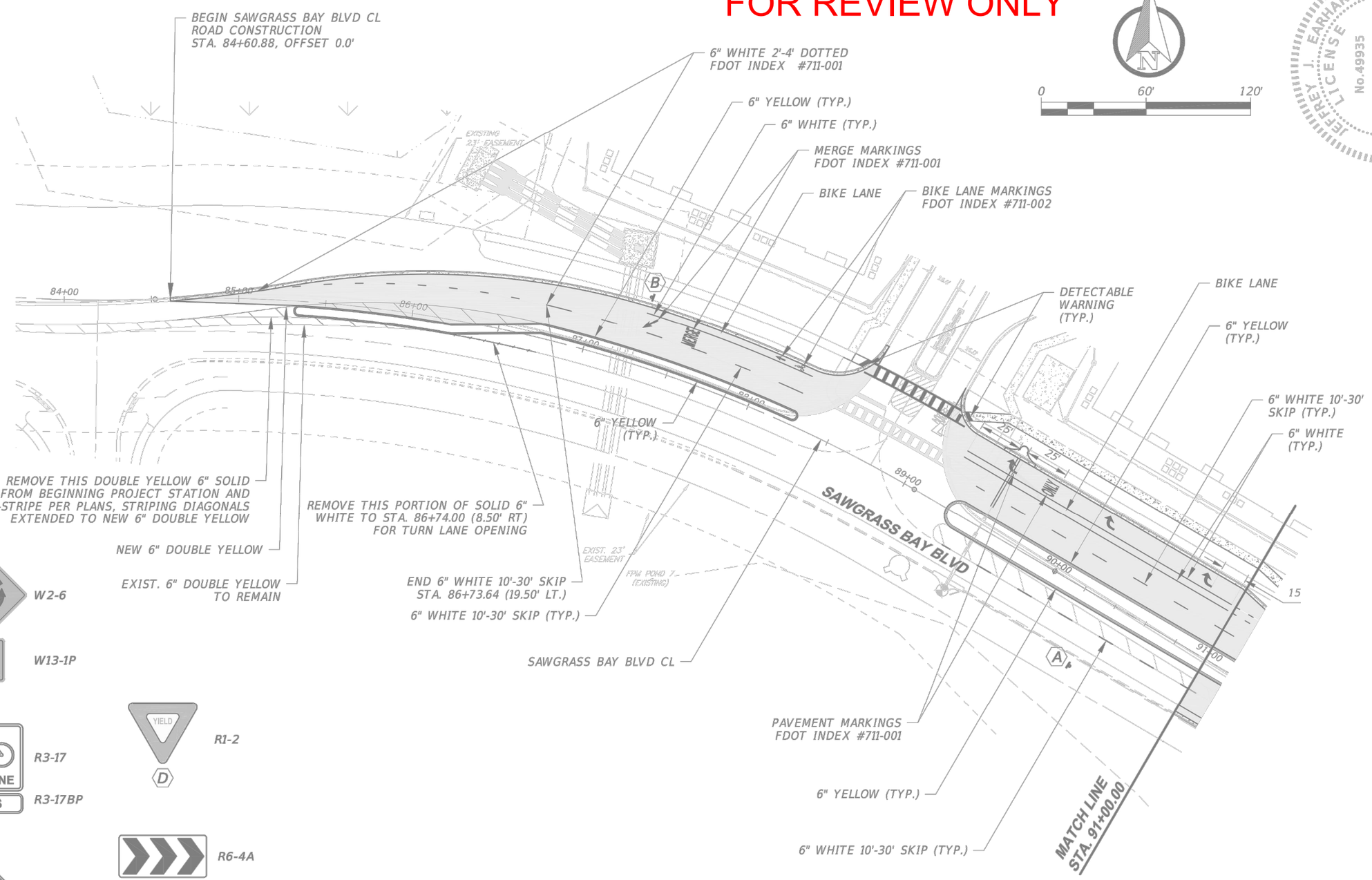
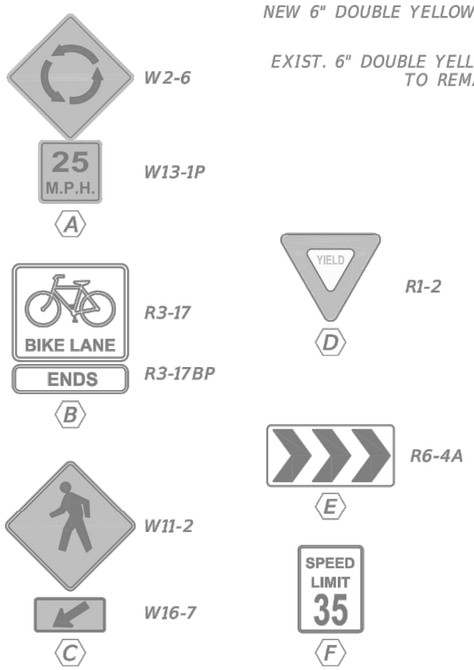
SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
FLEMINGS STREET B X-SECTIONS

JOB NO.: 20032CA

SHEET: 24

FOR REVIEW ONLY





TOMAHAWK SURVEYING

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Punta Gorda, FL 33950
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APPROVED: JE DATE: 4/24/2024

SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
SIGN & STRIPING PLAN (1)

JOB NO.: 20032CA
SHEET: 25

PLOTTED BY: Nunez, Osvaldo 4/24/2024 8:58 AM
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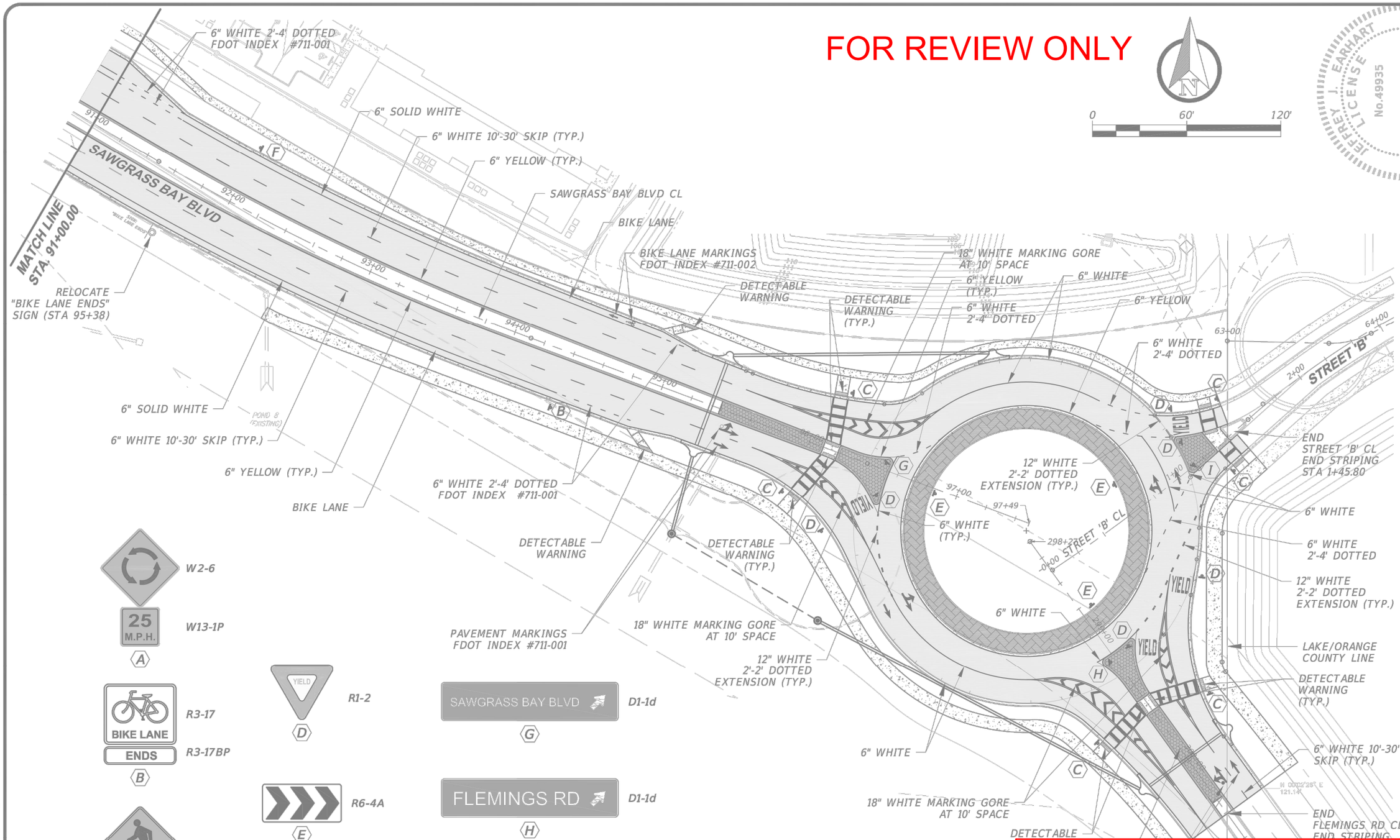
FOR REVIEW ONLY



TOMAHAWK SURVEYING

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Punta Gorda, FL 33950
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DATE	JOB#	DWG	SCALE
06/19/2025	24-79	24-79 ASB	AS SHOWN

JEFFREY J. EARHART LICENSE No.49935 STATE OF FLORIDA PROFESSIONAL ENGINEER

SIGNATURE / DATE
JEFFREY J. EARHART P.E. NO. 49935

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
LAKE COUNTY, FL
350 N. SINCLAIR AVE., TAVARES, FLORIDA 32778

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SAWGRASS BAY BLVD
MULTILANE ROUNDABOUT
SIGN & STRIPING PLAN (2)

JOB NO.: 20032CA

SHEET: 26

PLOTTED BY: Nunez, Osvaldo 4/24/2024 8:58 AM

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