



TRAFFIC OPERATIONS
**SIGNING AND
 PAVEMENT MARKINGS**
 SPECIAL PROVISION DETAILS
 DATED: JULY 2014

INDEX OF TECHNICAL SPECIAL PROVISIONS

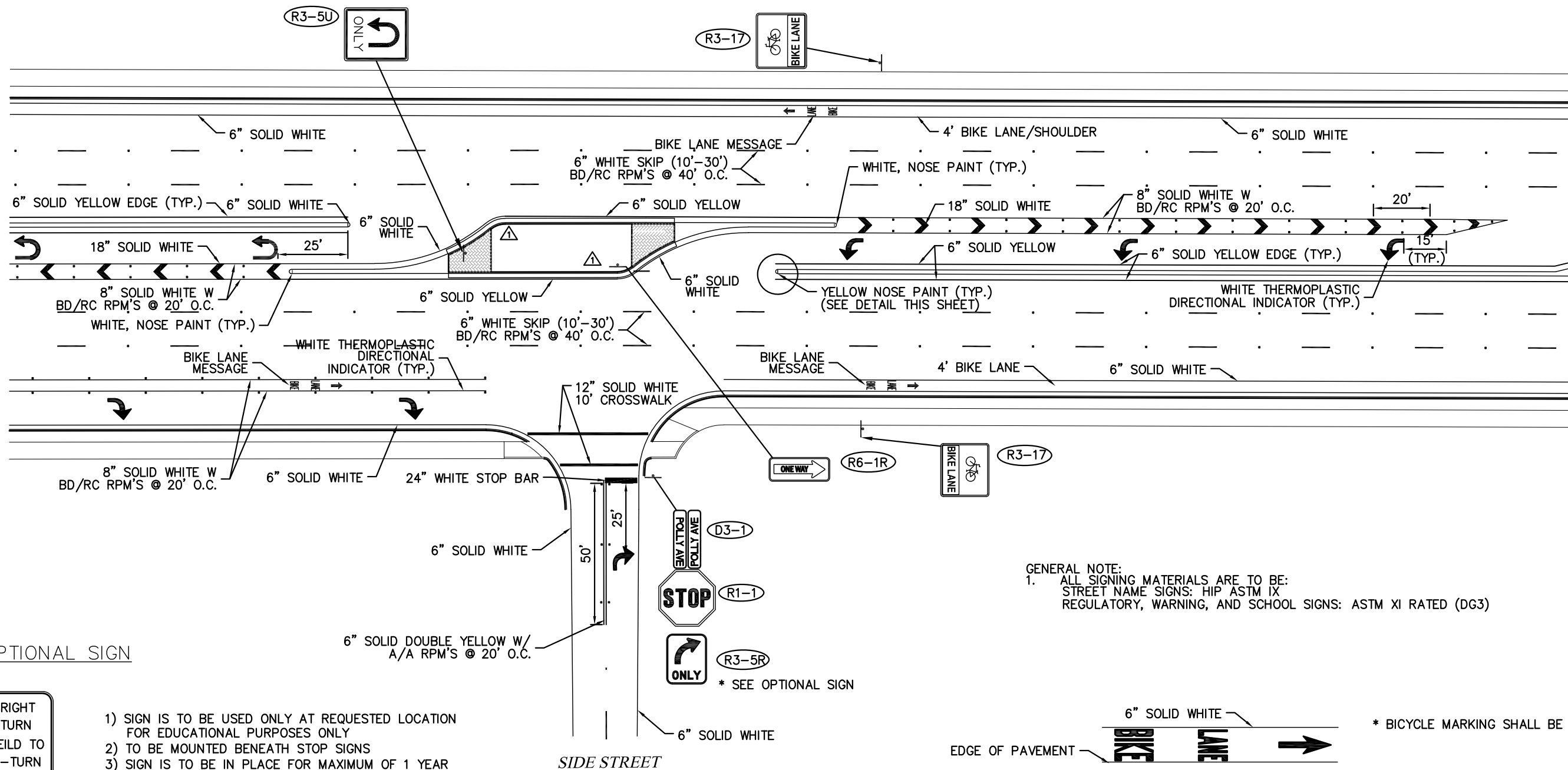
INDEX OF SIGNING AND PAVEMENT MARKING
 SPECIAL PROVISION DETAILS

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
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2	SIGN PLACEMENT AT INTERSECTIONS – CASE 1
3	SIGN PLACEMENT AT INTERSECTIONS – CASE 2
4	SIGN LOCATION AT T-INTERSECTIONS
5	YIELD SIGN INSTALLATION
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IN ADDITION TO THE
 FLORIDA DEPARTMENT OF TRANSPORTATION
 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 FLORIDA DEPARTMENT OF TRANSPORTATION
 DESIGN STANDARDS
 FEDERAL HIGHWAY ADMINISTRATION
 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

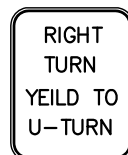
DESIGNED BY: TANIA DELGADO, CAD TECH.	DATE: JULY 2014
APPROVED BY: CARMELO CARATOZZOLO, PE	DATE: JULY 2014

No.	DATE	REVISIONS	BY:	 BOARD OF COUNTY COMMISSIONERS COLLIER COUNTY, FLORIDA TRANSPORTATION ENGINEERING DEPARTMENT 2885 SOUTH HORSESHOE DRIVE NAPLES, FLORIDA 34104 (239) 252-8192 FAX (239) 252-8868	PROJECT SIGNING AND PAVEMENT MARKING SPECIAL PROVISION DETAILS	TITLE INDEX OF TECHNICAL SPECIAL PROVISIONS	DRAWN BY:	DATE:	SHEET No. 1
△	11/5/2015	PER JFO AND AK	TD				DESIGNED BY:	DATE:	
△	7/25/2024	SHEET No. 12 PER DH AND AK	DH				CHECKED BY: C.C.	DATE:	
△							HORIZONTAL SCALE: 1"=40'		
							VERTICAL SCALE: NTS		
							DATE:	FILE No.	PROJECT No.



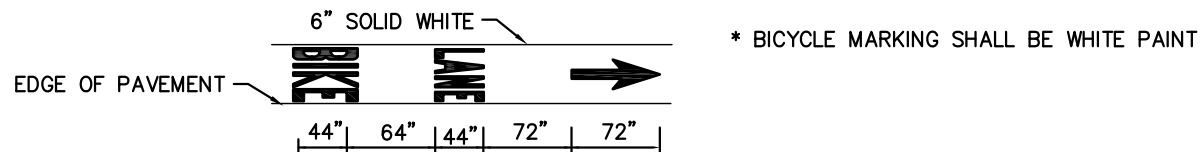
GENERAL NOTE:
 1. ALL SIGNING MATERIALS ARE TO BE:
 STREET NAME SIGNS: HIP ASTM IX
 REGULATORY, WARNING, AND SCHOOL SIGNS: ASTM XI RATED (DG3)

* OPTIONAL SIGN



- 1) SIGN IS TO BE USED ONLY AT REQUESTED LOCATION FOR EDUCATIONAL PURPOSES ONLY
- 2) TO BE MOUNTED BENEATH STOP SIGNS
- 3) SIGN IS TO BE IN PLACE FOR MAXIMUM OF 1 YEAR
- 4) REMOVE R3-5R, THEN PLACE SIGN UNDER STOP SIGN

* SEE OPTIONAL SIGN



DETAIL OF BIKE LANE MARKINGS

No.	DATE	REVISIONS	BY:
1	11/5/2015	CASE 1, REMOVED R3-18 SIGN FROM WITHIN ISLAND PER JFO AND AK	TD

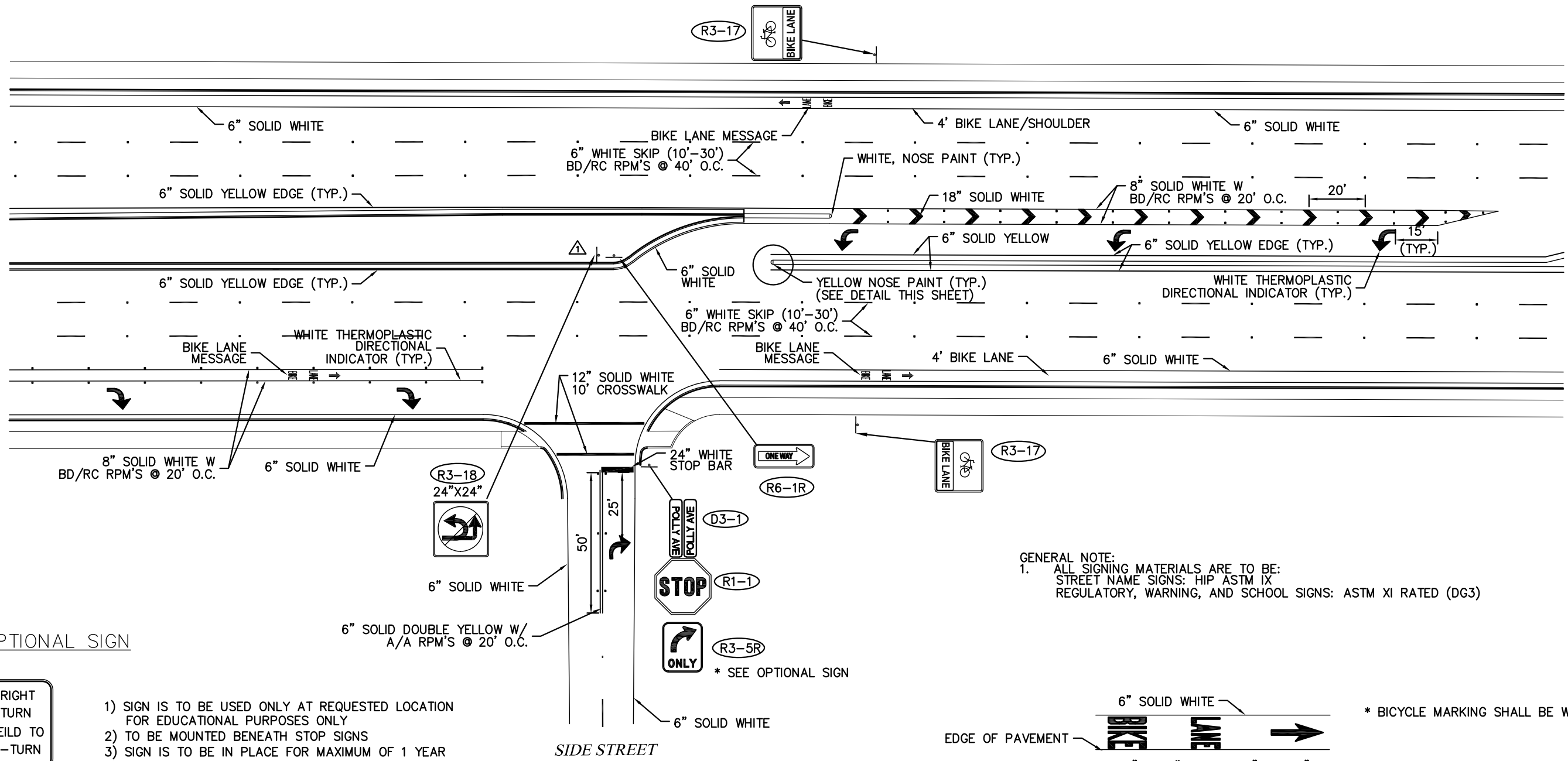
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 TRANSPORTATION ENGINEERING
 DEPARTMENT
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 NAPLES, FLORIDA 34104 (239) 252-8192 FAX (239) 252-8868

PROJECT
SIGNING AND PAVEMENT MARKING
SPECIAL PROVISION DETAILS

TITLE
SIGN PLACEMENT AT INTERSECTIONS
CASE 1

DESIGNED BY:	DATE:
CHECKED BY: C.C.	DATE:
HORIZONTAL SCALE: 1"=40'	DATE:
VERTICAL SCALE: NTS	DATE:
FILE NO.	PROJECT NO.

SHEET No.
2

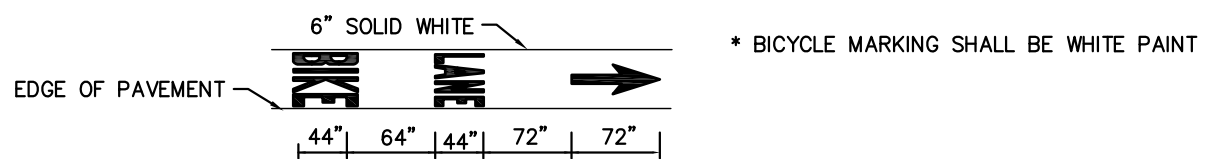


GENERAL NOTE:
 1. ALL SIGNING MATERIALS ARE TO BE:
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 REGULATORY, WARNING, AND SCHOOL SIGNS: ASTM XI RATED (DG3)

* OPTIONAL SIGN



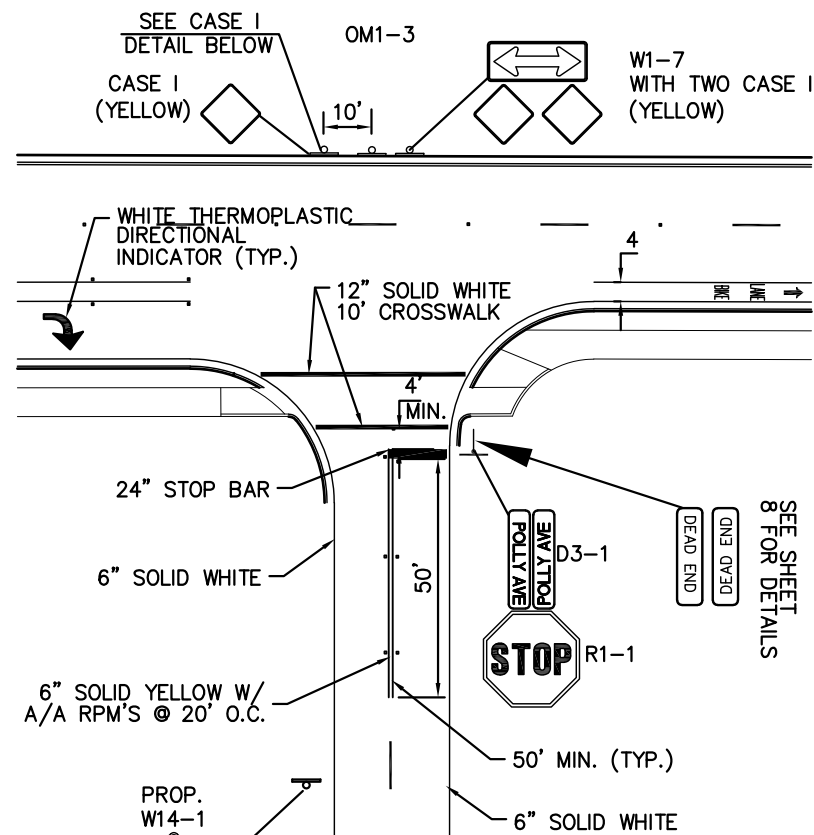
- 1) SIGN IS TO BE USED ONLY AT REQUESTED LOCATION FOR EDUCATIONAL PURPOSES ONLY
- 2) TO BE MOUNTED BENEATH STOP SIGNS
- 3) SIGN IS TO BE IN PLACE FOR MAXIMUM OF 1 YEAR
- 4) REMOVE R3-5R, THEN PLACE SIGN UNDER STOP SIGN



DETAIL OF BIKE LANE MARKINGS

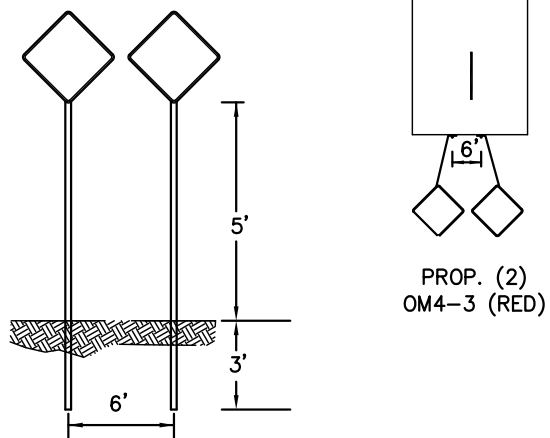
No.	DATE	REVISIONS	BY:	PROJECT	TITLE	DRAWN BY:	DATE:	SHEET No.
1	11/5/2015	CASE 2, R3-18, PER JFO AND AK	TD	SIGNING AND PAVEMENT MARKING SPECIAL PROVISION DETAILS	SIGN PLACEMENT AT INTERSECTIONS CASE 2	DESIGNED BY:	DATE:	3
2				BOARD OF COUNTY COMMISSIONERS COLLIER COUNTY, FLORIDA TRANSPORTATION ENGINEERING DEPARTMENT 2885 SOUTH HORSESHOE DRIVE NAPLES, FLORIDA 34104 (239) 252-8192 FAX (239) 252-8868		CHECKED BY: C.C.	DATE:	
3						HORIZONTAL SCALE: 1"=40'	DATE:	
4						VERTICAL SCALE: NTS	DATE:	
						FILE NO.	PROJECT NO.	

SIGN LOCATION AT "T" - INTERSECTIONS AND DEAD END



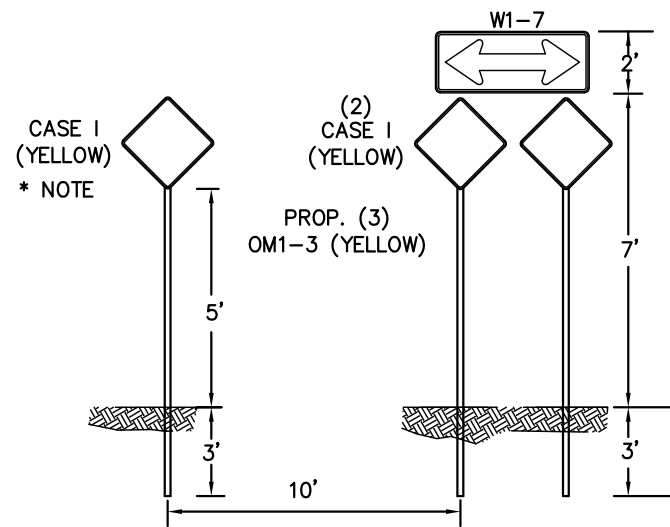
OBJECT MARKERS
DETAIL AT
END OF ROADWAY

OM4-3 (RED) SIGNS SHALL BE INSTALLED IF CANAL IS AT THE ROADWAY END. AND OTHER LOCATIONS AS DETERMINED BY COLLIER COUNTY TRAFFIC OPERATIONS.



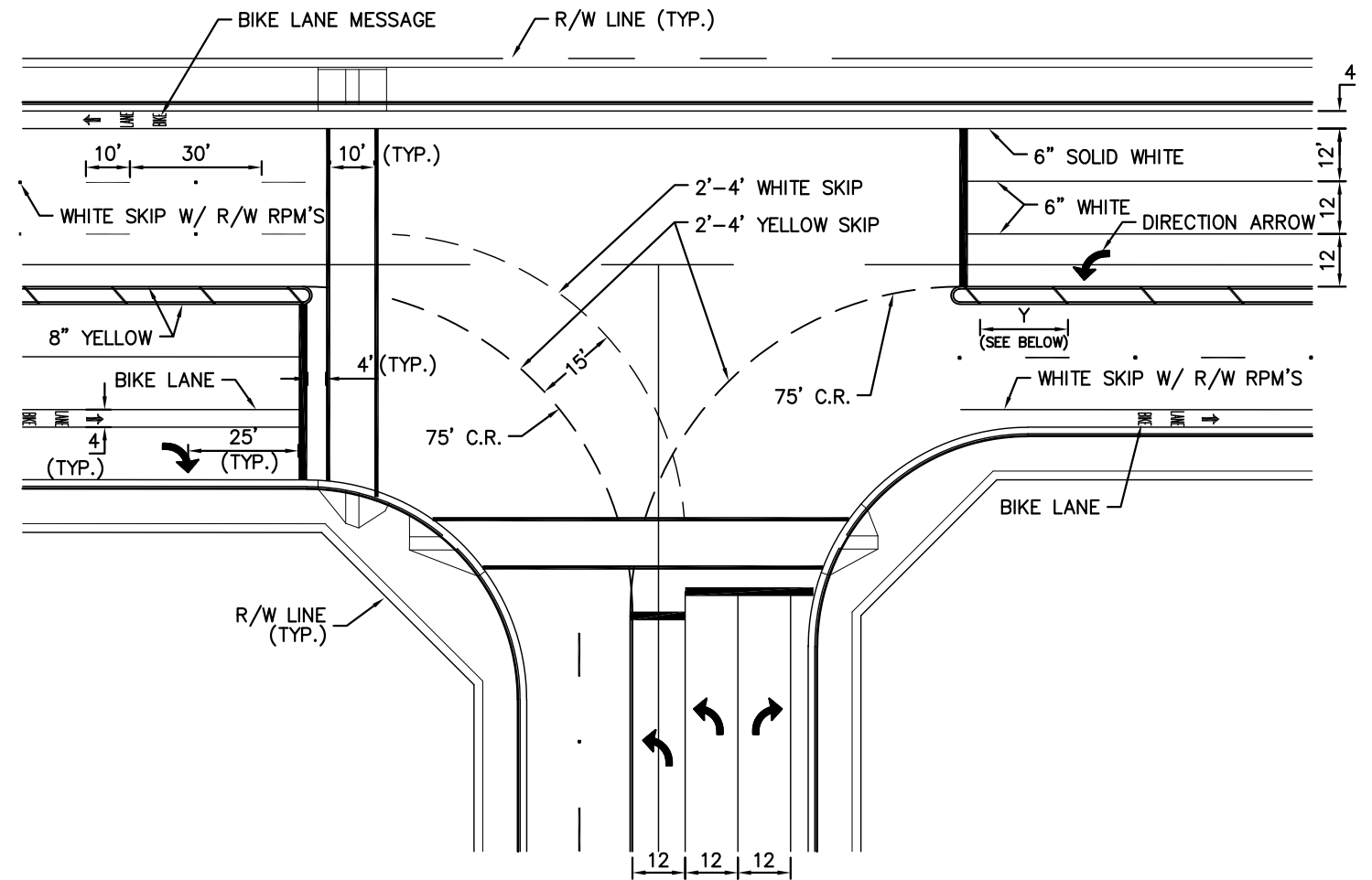
OBJECT MARKERS
DETAIL AT
T-INTERSECTIONS

CASE I YELLOW HIGH INTENSITY PRISMATIC SHEETING



CASE I DETAIL

* NOTE: THIRD YELLOW HIGH INTENSITY PRISMATIC SIGN TO BE USED FOR ROADWAYS ENDING IN CANALS, DROP OFFS, AND OTHER LOCATIONS DETERMINED BY COLLIER COUNTY TRAFFIC OPERATIONS.



EXPANDED T-INTERSECTION SINGLE/DUAL LEFT TURN LANE

POSTED (DAY) SPEED LIMIT MPH	"Y" (FT.)
30 OR LESS	10
35	20
40	20
45	30
50 OR MORE	40

No.	DATE	REVISIONS	BY:

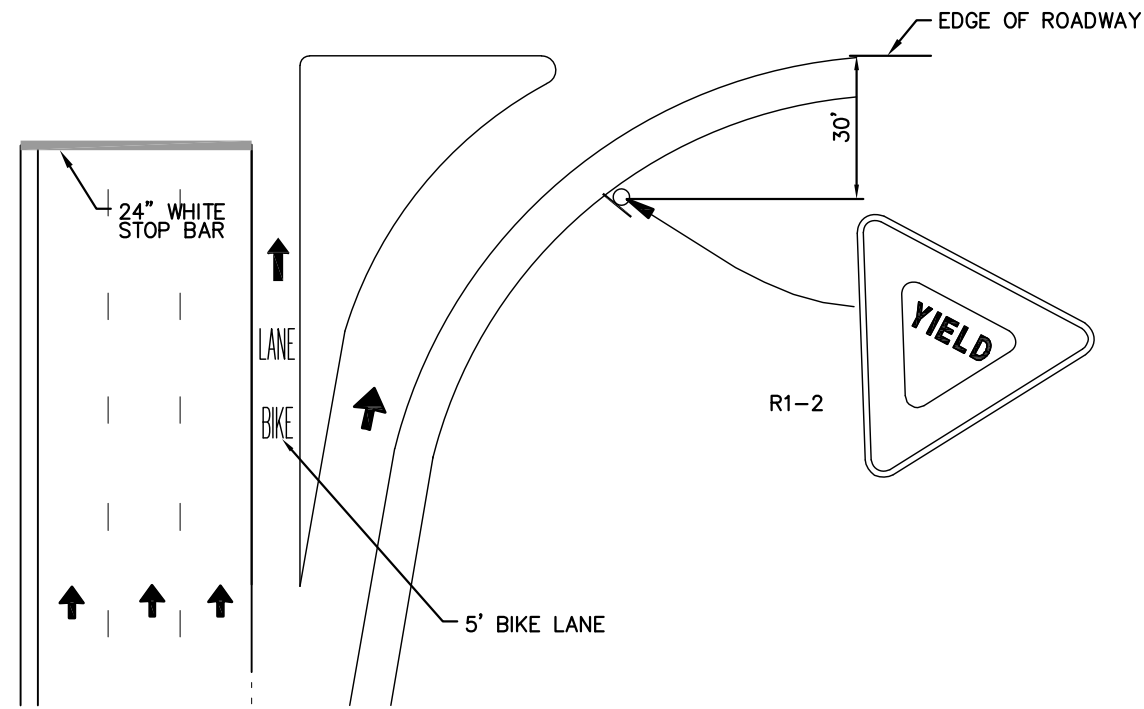

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PROJECT
SIGNING AND PAVEMENT MARKING
SPECIAL PROVISION DETAILS

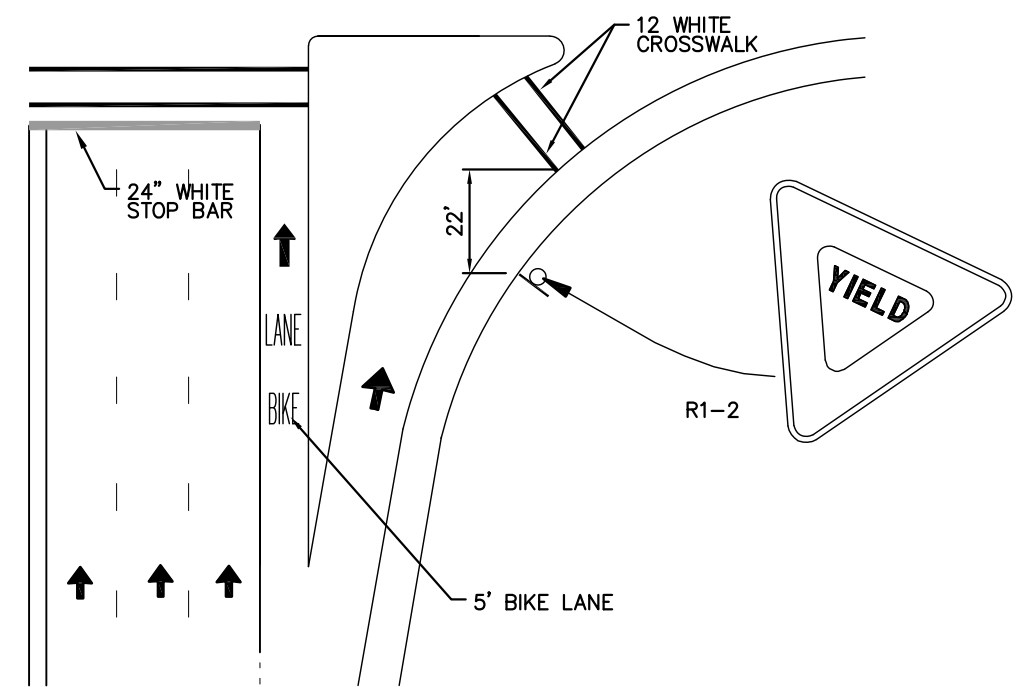
TITLE
SIGN LOCATION AT T-INTERSECTIONS

DESIGNED BY:	DATE:
CHECKED BY:	DATE:
HORIZONTAL SCALE:	DATE:
VERTICAL SCALE:	DATE:
FILE NO.	PROJECT NO.

SHEET No.
4




YIELD SIGN PLACEMENT WITH NO CROSS WALK



YIELD SIGN PLACEMENT WITH CROSS WALK

No.	DATE	REVISIONS	BY:
△			
△			
△			

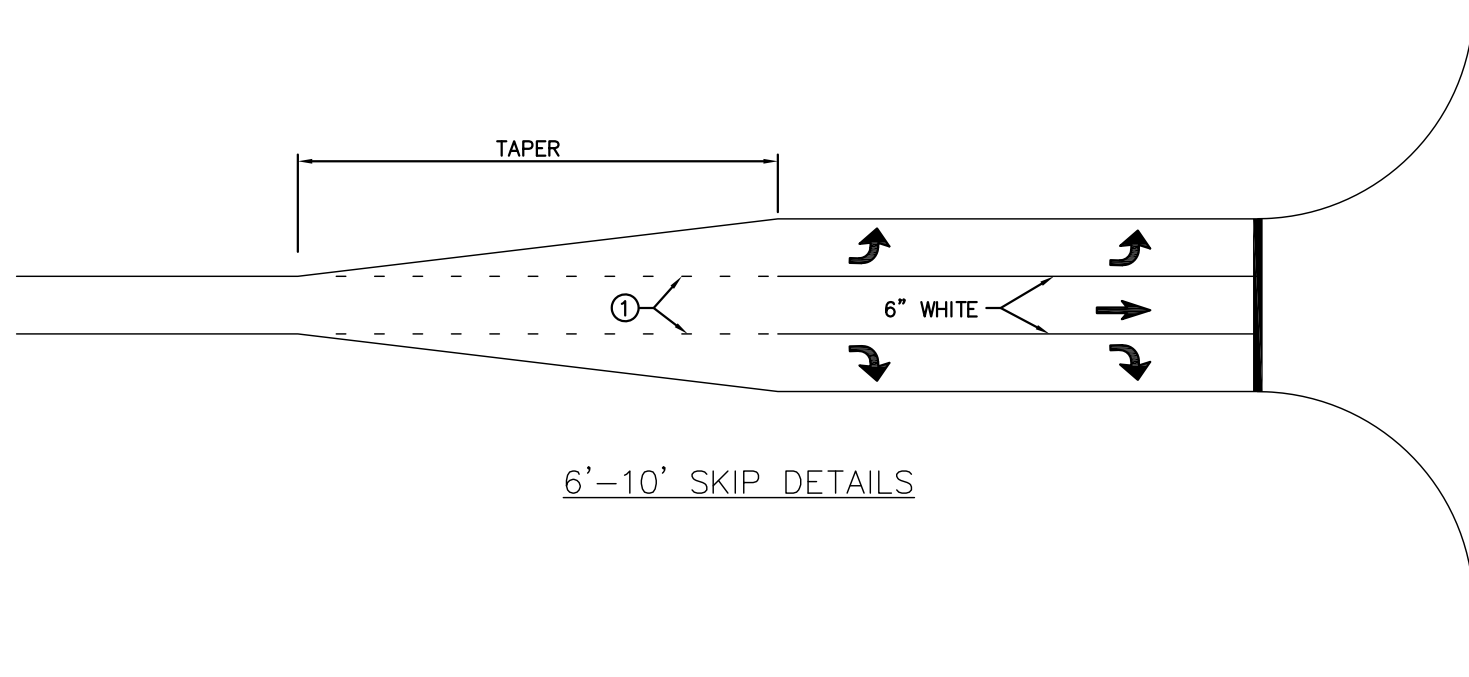

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PROJECT
SIGNING AND PAVEMENT MARKING
SPECIAL PROVISION DETAILS

TITLE
YIELD SIGN INSTALLATION

DRAWN BY:	DATE:
DESIGNED BY:	DATE:
CHECKED BY: C.C.	DATE:
HORIZONTAL SCALE: 1"=40'	
VERTICAL SCALE: NTS	
DATE:	FILE NO. PROJECT NO.

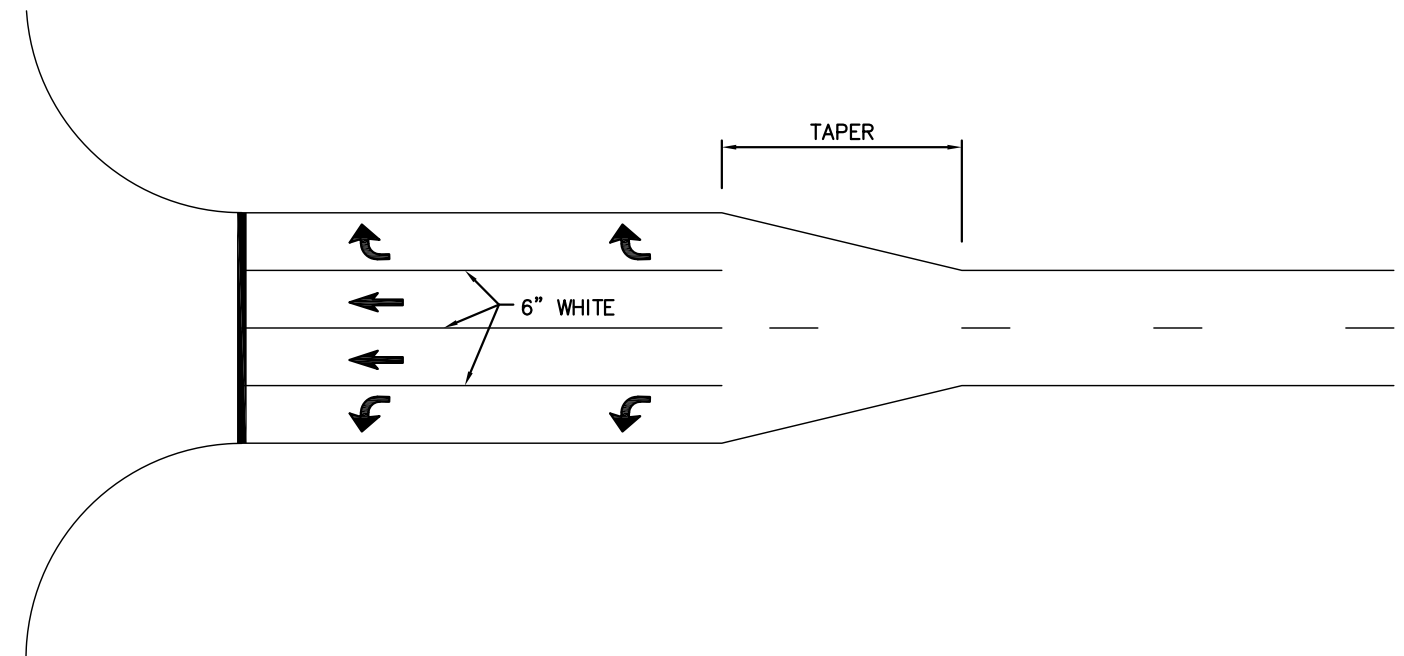
SHEET No.
5



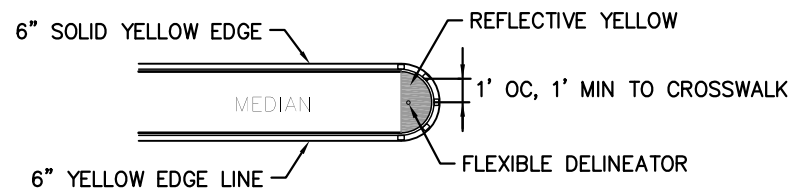
6'-10' SKIP DETAILS

6'-10' SKIP DETAILS

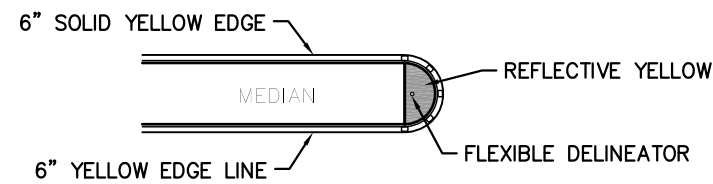
- ① 6'-10' SKIPS 6" WHITE SHALL BE USED FOR THE FOLLOWING CONDITIONS:
 - APPLIES AT INTERSECTION APPROACHES WITH A SINGLE THROUGH LANE
 - HORIZONTAL CURVE SECTIONS
 - CHANGES IN HORIZONTAL ALIGNMENT



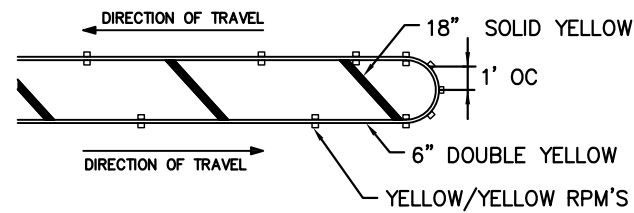
YELLOW/YELLOW RPM DETAILS



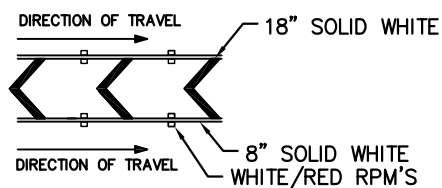
MEDIAN NOSE PAINT DETAILS



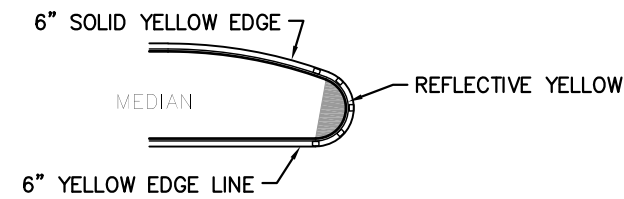
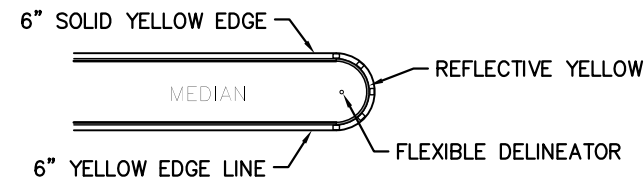
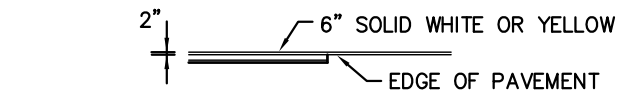
PAINTED MEDIAN DETAILS



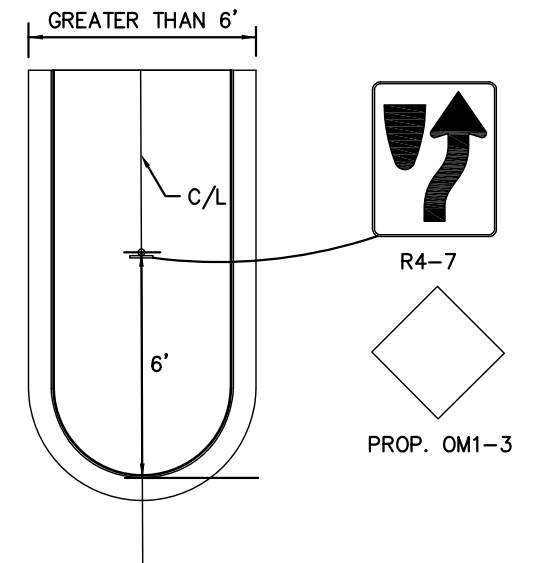
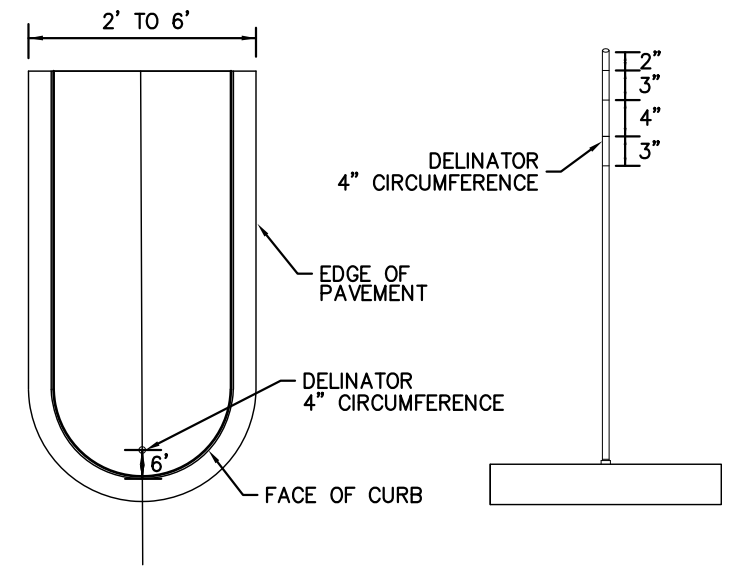
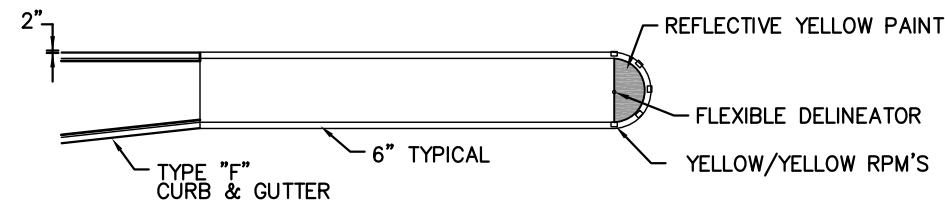
CHEVRON DETAILS



EDGE LINE DETAILS



TYPE IV SEPARATOR DETAILS



DESCRIPTION Sign System for 2-1/2' square post, including Slip Base and Sign Brace. (6' concrete foundation)	DWG# SRTBUX-25C48C-G	ASB200P1 SIGN BRACE	DRAS3878-06-W RIVET w/washer	SBPCS250SQ SIGN CLAMP	TELESPEAR	XCESSORIES SQUARED DEVELOPMENT & MFG., INC. Auburn, IL 62815 (618) 217-438-5355 fax 217-438-3917 www.xsquared.com PREPARED FOR: Traffic Department
	6061-T6 ALUMINUM ALLOY: 2" MOUNTING SURFACE x 7/8" DEPTH x 1/8" NOMINAL WALL THICKNESS. QUANTITY AND SPACING TO BE BASED ON STATE AUTHORIZED SPACING CHART. 3/8" HOLES ON 1" CENTERS CENTERED ALONG ENTIRE LENGTH OF THE BRACE.	3/8" ALUMINUM SHELL / STEEL CORE RIVET WITH NYLON WASHER.	MATERIALS: 1/4" WIDE x 11ga TYPE 304 #2B FINISHED STAINLESS STEEL BRACKET. INCLUDES STAINLESS STEEL 3/8"-1/2" x 2" CARTRIDGE BOLT AND SERATED FLANGED NUT.	STRUCTURAL STEEL ASTM A1011, Grade 50, AVERAGE MINIMUM YIELD STRENGTH MUST BE 60,000 PSI. MUST BE CORNER WELDED, THEN ZINC COATED AFTER SCARFING. MUST BE COATED WITH A CHROMATE CONVERSION COATING AND CLEAR ORGANIC POLYMER TOPCOAT. INTERIOR AND EXTERIOR WILL BE GALVANIZED.	complete slip base assembly (detailed below)	
NOTES: A. MINIMUM OF 12" DIAMETER X 42" CONCRETE FOOTING. B. SECURE SIGN SUPPORT TO POST RECEIVER WITH USE OF DRIVEABLE LOCKING WEDGE, WHICH SHALL ELIMINATE ALL TOLERANCE BETWEEN POST AND COUPLER WITHOUT THE NEED FOR THREADED FASTENERS. WEDGE MUST CONTAIN RIBS PREVENTING POST FROM PULLING OUT DUE TO VIBRATION. C. ALL COMPONENTS OF ORIGINAL INSTALLATION SHALL BE REUSABLE WITH THE EXCEPTION OF THE MATCHPLATE HARDWARE BOLT. D. BRASS SHIMS MAY BE USED BETWEEN SLIP PLATES TO LEVEL THE UPPER SLIP PLANE. E. SLIP BASE MUST BE FHWA ACCEPTED, MEETING CURRENT AASHTO & NCHRP 350 REQUIREMENTS. F. SIGN BRACE CLAMPS MUST ALLOW SIGN BRACE TO BE ADJUSTED UP, DOWN, LEFT OR RIGHT IN ORDER TO ACHIEVE PERFECT POSITION OF SIGN PANEL. G. DRIVE RIVET MUST HAVE WASHER PRE-INSTALLED AND FIT INTO SIGN BRACE TO SECURE ALUMINUM SIGN PANEL FOR PROPER HARDWARE INSTALLATION. SEE SEPARATE HARDWARE INSTALLATION INSTRUCTIONS. H. 12GA SQUARE SIGN POST MAY BE INSERTED WITH A 2-1/4" x 12GA SQUARE POST TO INCREASE SIGN AREA CAPACITY. I. 10GA SQUARE POST MAY BE INSERTED WITH A 2-3/16" x 10GA SQUARE POST FOR EVEN GREATER SIGN AREA CAPACITY.	SB8C-250A-G 2-1/2" SQUARE POST RECEIVER	LWX35F-G POST LOCKING WEDGE	SLIP PLATE DIMENSION	RTB50-200G 1/2"-3/4" x 3" GRADE 8 DOUBLE HEX BOLT, GALVANIZE PER ASTM B995 (3 EACH PER KIT)	TC5175-488 1-3/4" SQUARE x 3/16" THICK TEFLON COATED, HARDENED SLIP WASHER (3 EACH PER KIT)	SB8-CTA48-G UNIBASE ANCHOR STUB
RTSB-MPHDW - SLIP BASE MATCH PLATE HARDWARE KIT - must be FHWA Accepted						

DELINATOR AND SLIP BASE SYSTEM*
MEDIAN INSTALLATIONS

*REDI-TORQUE MODEL 280 SLIP BASE SYSTEM, OR APPROVED EQUAL

No.	DATE	REVISIONS	BY:

BOARD OF COUNTY COMMISSIONERS
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 2885 SOUTH HORSESHOE DRIVE
 NAPLES, FLORIDA 34104 (239) 252-8192 FAX (239) 252-8868

PROJECT
**SIGNING AND PAVEMENT MARKING
 SPECIAL PROVISION DETAILS**

TITLE
**FLEXIBLE DELINATOR AND SIGN POST
 MEDIAN INSTALLATIONS**

DESIGNED BY:	DATE:
CHECKED BY: C.C.	DATE:
HORIZONTAL SCALE:	1"=40'
VERTICAL SCALE:	N/A
DATE:	FILE NO. PROJECT NO.

SHEET No.
 7



Advance Street Name Guidelines

PURPOSE:

To provide guidance on the design, placement and installation criteria for advance street names signs on the Collier County Highway System.

MINIMUM REQUIREMENTS:

Advanced Street Name Signs, at the discretion of Collier County Traffic Operations, may be installed at signalized or un-signalized intersections on the major roadway when the minor roadway has an ADT of 2,000 vehicles per day. The major street shall be classified as collector or arterial, provide access to a traffic generator, or possess other comparable physical or traffic characteristics deemed to be critical or significant.

GENERAL GUIDLINES:

1. Requests to install advance street name signs must be approved by Collier County Traffic Operations.
2. Advanced street name signs shall only be used to identify critical or significant cross streets. They are **not** intended to identify destinations such as cities, facilities, or residential neighborhoods.
3. Collier County shall maintain all approved advance street name signs. A right-of-way permit, the cost of installation and replacement of advance street name signs for private streets or those not open to the public shall be the responsibility of the private development. Signs shall be removed when the signs no longer meet current standards.
4. The word Street, Boulevard, Avenue, etc may be abbreviated to conserve sign panel length.
5. When a cross street is known by both route number and a name, use of the name is preferred.
6. When minor cross streets intersect the roadway between the advance street name sign and the intersection; additional legend such as "Next Signal" or "XX Feet" may be added to the advance street name sign.
7. Lettering used on the advance street name sign should be consistent with the legend on either the overhead street name or post mounted street names sign where appropriate.
8. Sign sheeting materials shall comply with the ASTM Type III (3M High Intensity Prismatic or equivalent).
9. Guidelines are based on the FHWA's Highway Design Handbook for Older Drivers and Pedestrians. The following guidelines shall be used:

Design Guidelines for Advance Street Name Signs				
Posted Speed Limit (MPH)	Letter Size (Inches) Series E, Modified		Symbol Height	Maximum Plate Length: 80 Inches
	Upper Case	Lower Case		
35 or Less	6"	4"	12"	24" W/Rounded Corners (Single Line) or 30" W/Rounded Corners (Double Line)
40 or Greater	8"	6"	12"	24" W/Rounded Corners (Single Line) or 30" W/Rounded Corners (Double Line)

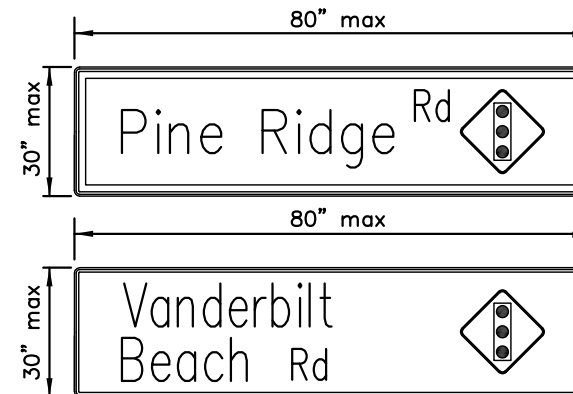
Figure 1

NOTE: SHEETING MATERIALS TO BE HIGH INTENSITY PRISMATIC (HIP)

ADVANCE STREET NAME SIGNS AT SIGNALIZED INTERSECTIONS:

1. Advance Street names at signalized intersections should be installed when there is a documented history of side-swipe or rear-end type crashes; or there are high volume approaches. Collier County shall review and document the crash data as required for this determination.

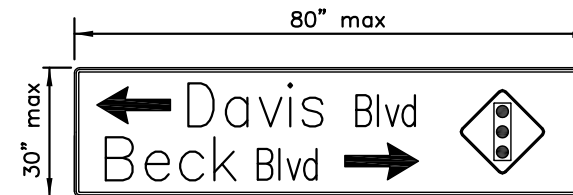
2. Advanced street name signs shall as per guidelines in Figure 1 (above) on Green background, with border.



LOCATION OF ADVANCE STREET NAME SIGNS	
SPEED	DISTANCE
35	MIN 100 FT
45	175 FT
50	250 FT
55	325 FT

* ADVANCED STREET SIGNS SHOULD BE PLACED PRIOR TO INTERSECTION TURN LANES

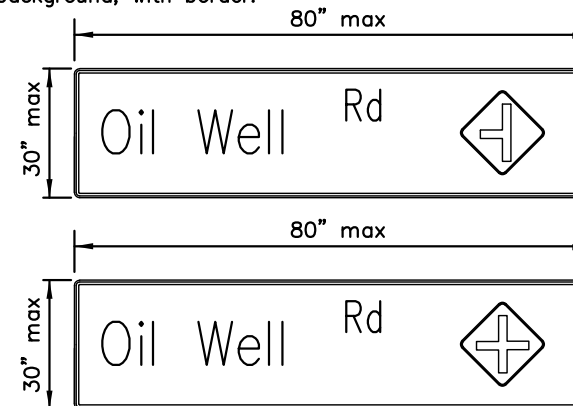
2. When a cross street has a different name on each side of the intersections, both names shall be shown on the advance sign with an arrow beside each name to designate direction.



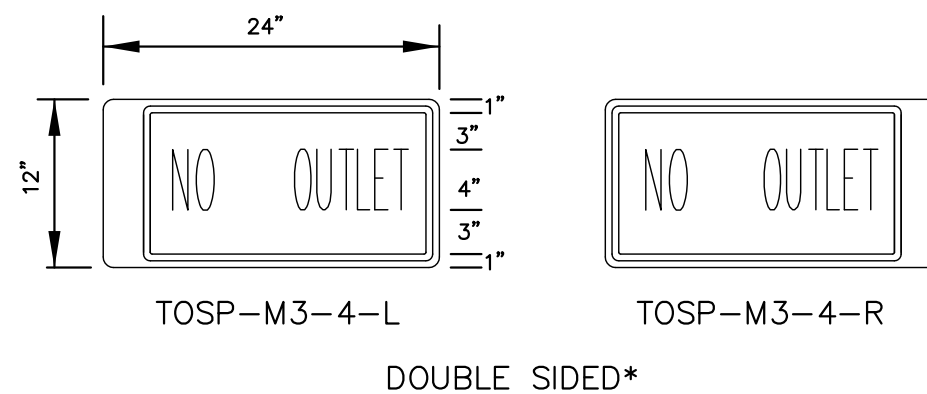
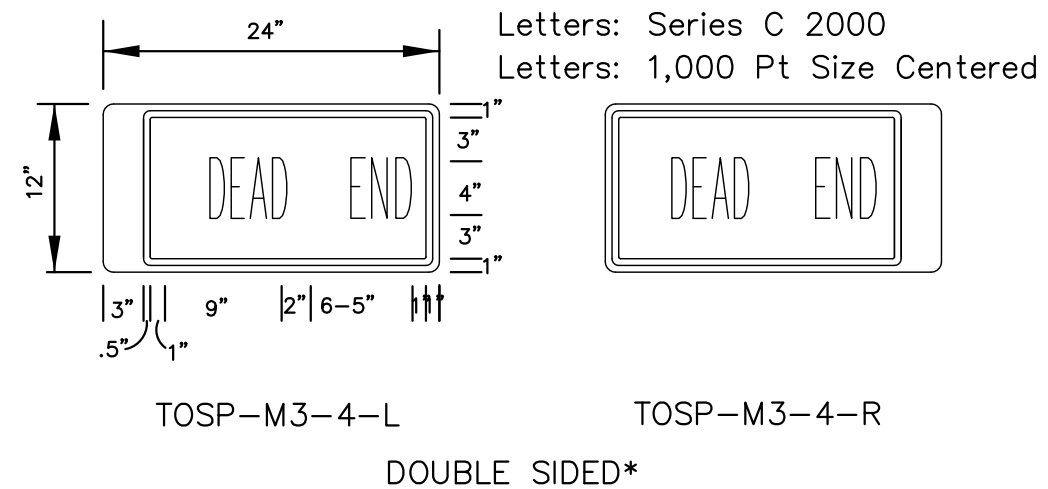
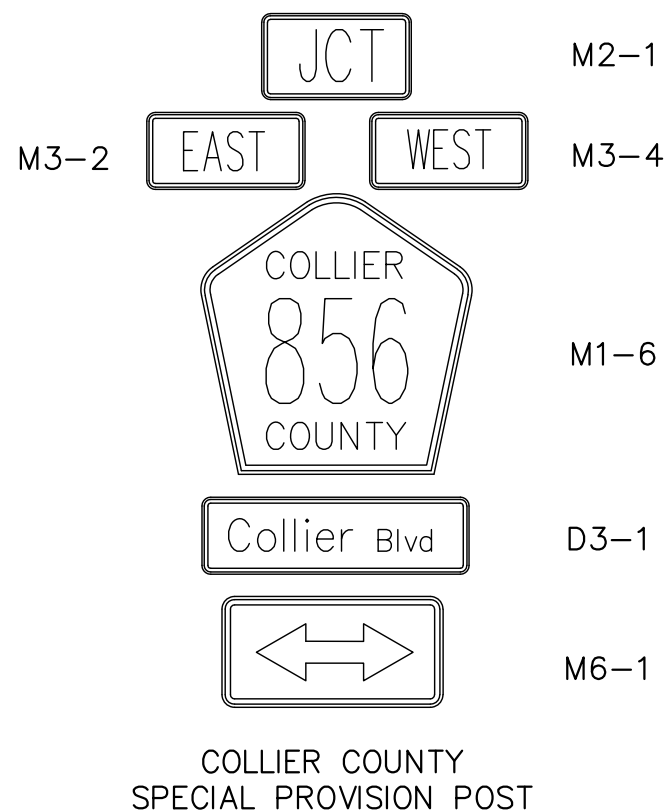
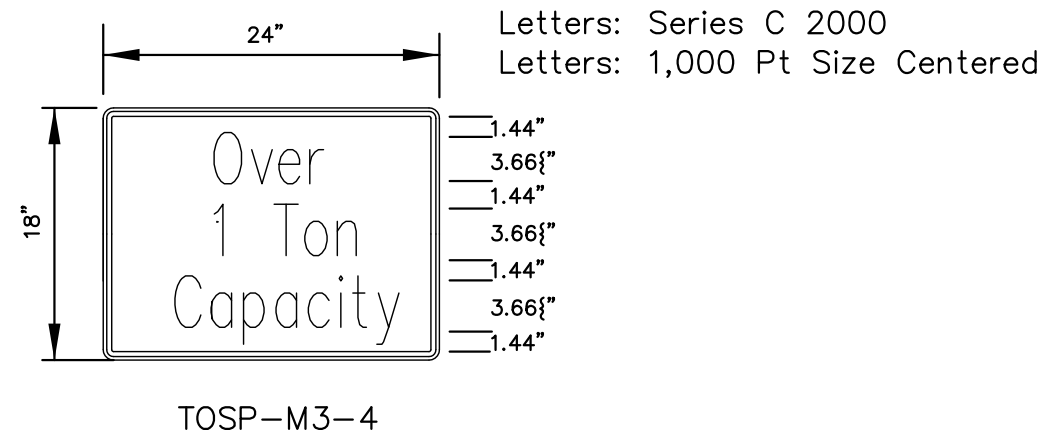
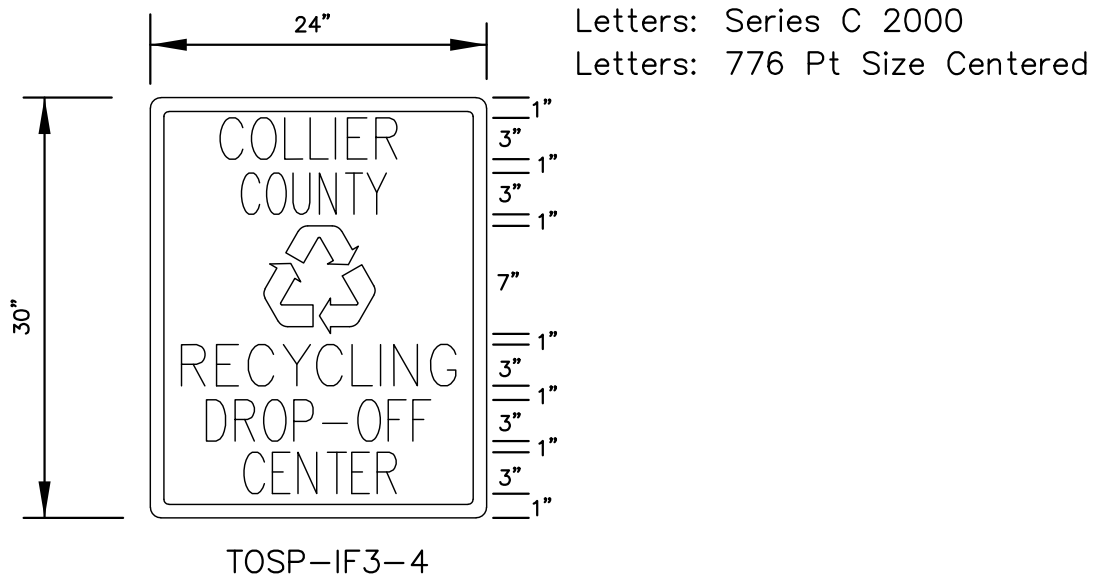
ADVANCE STREET NAME SIGNS AT NON-SIGNALIZED INTERSECTIONS:

1. Advance street names may be installed on multi-lane divided highways that have a dedicated left turn lane and the posted speed limit shall not be lower than 45 MPH.

2. Advanced street name signs shall as per guidelines in Figure 1 (above) on Green background, with border.



3. When a cross street has a different name on each side of the intersections, both names shall be shown on the advance sign with an arrow besides each name to designate direction. (See Example for signals and use the appropriate cross street symbol)



* MOUNTING HOLES ON DOUBLE SIDED SIGNS ARE TO BE LOCATED 2' FROM TOP/BOTTOM AND 1-1/4" FROM SIDE

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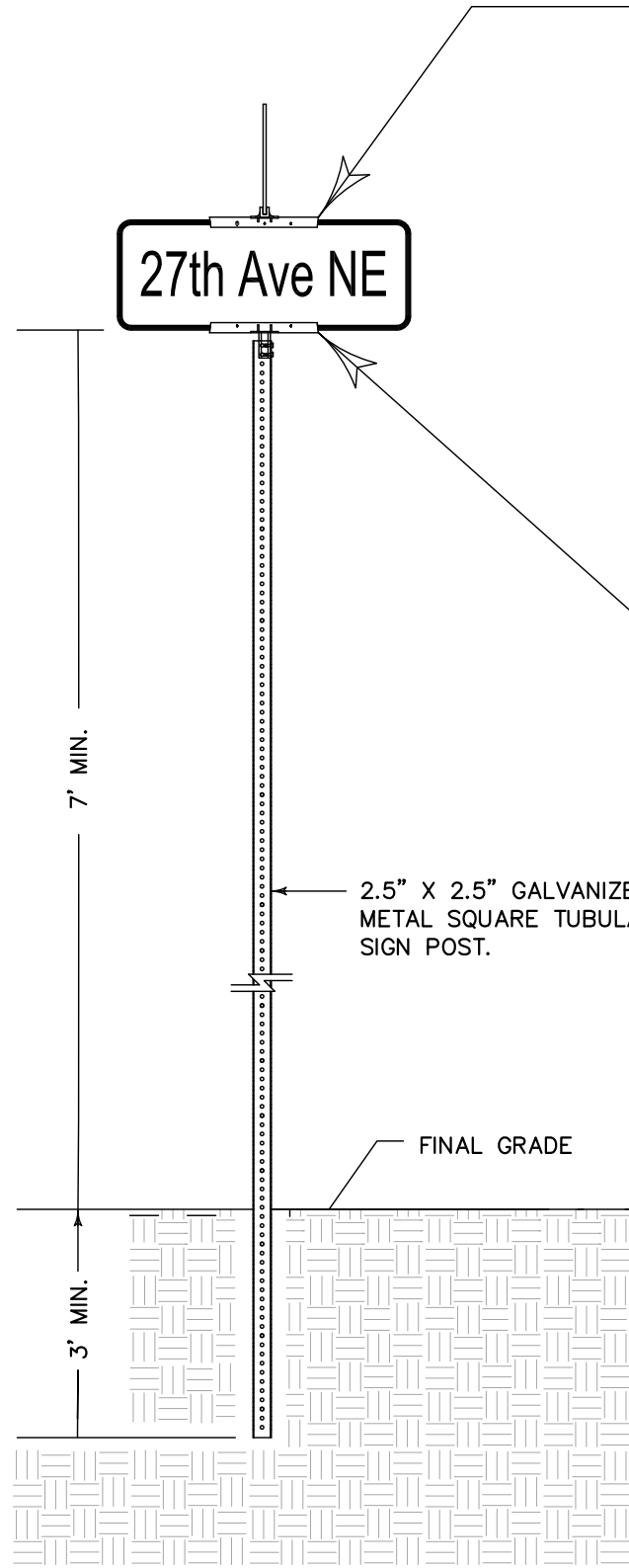

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PROJECT
**SIGNING AND PAVEMENT MARKING
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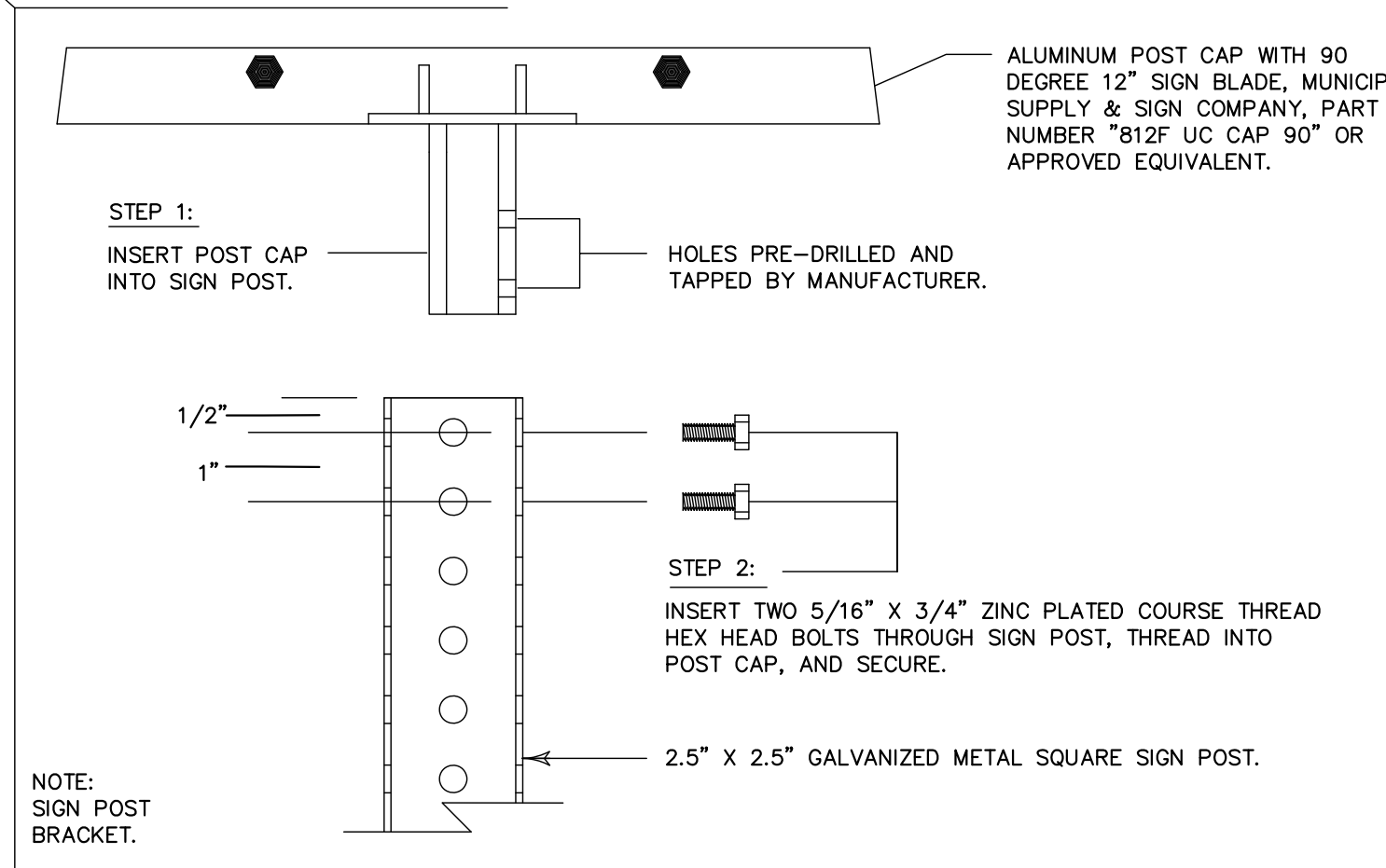
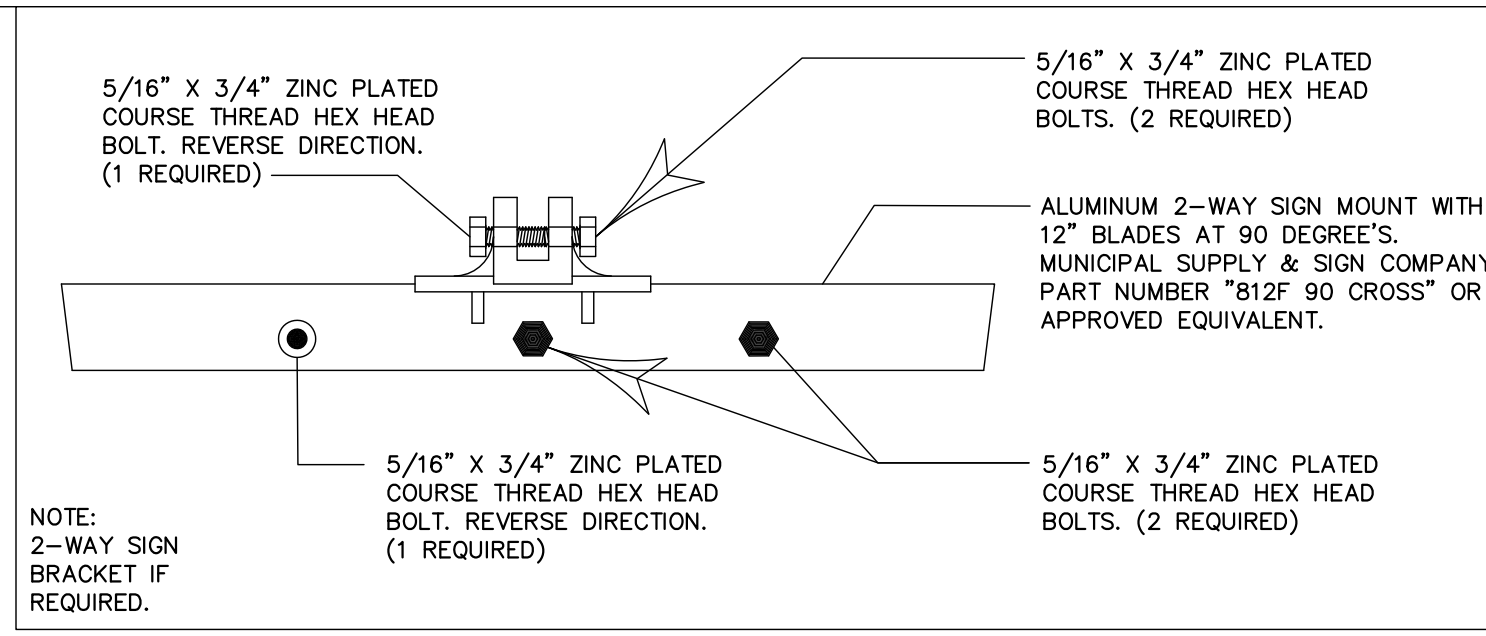
TITLE
**COLLIER COUNTY
 SIGN SPECIAL PROVISION**

DESIGNED BY:	DATE:
CHECKED BY:	DATE:
HORIZONTAL SCALE:	1"=40'
VERTICAL SCALE:	N/A
DATE:	FILE NO. PROJECT NO.

SHEET No.
9

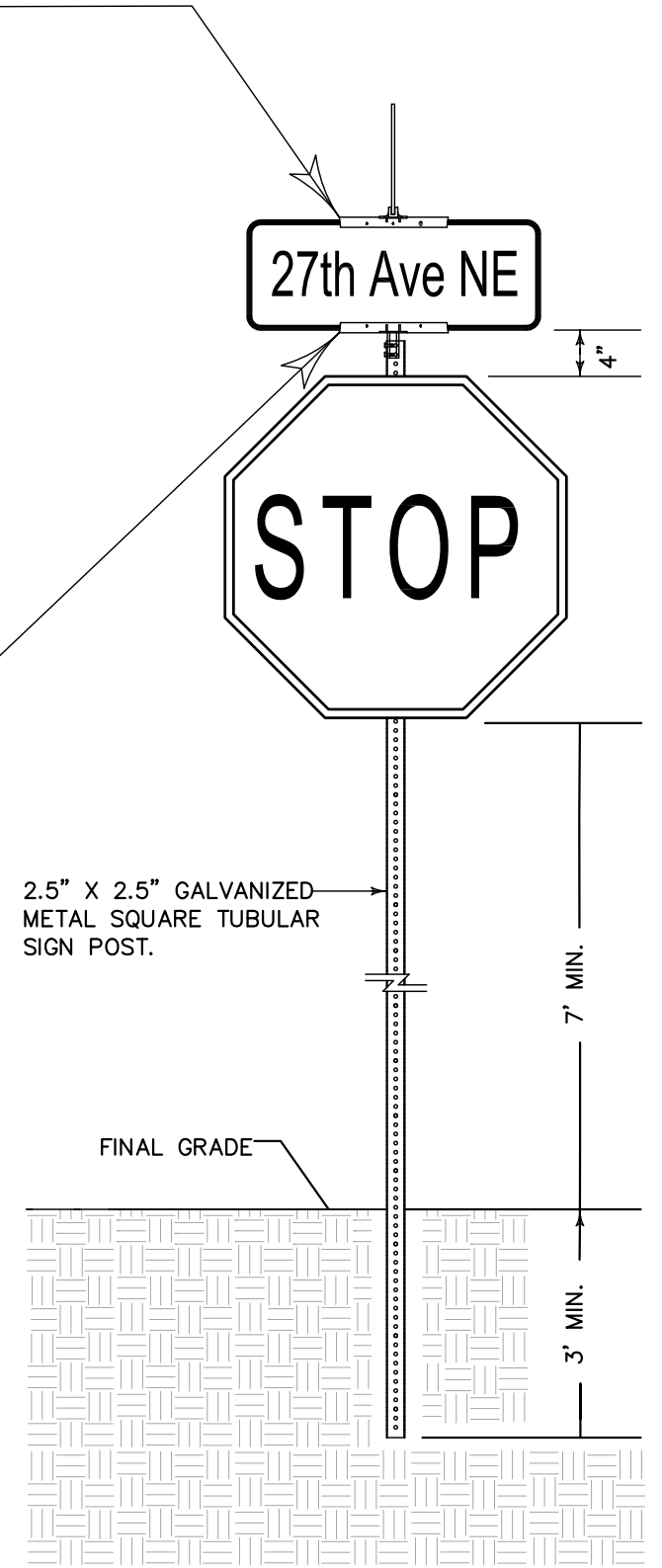


TYPICAL INSTALLATION
NOT TO SCALE



Note: Installation shall meet the Florida Department of Transportation Design Standards, Dated 2010, Index Number 17302.

Note: All new signing installations in Collier County are to use a square post according to this detail.



TYPICAL INSTALLATION
NOT TO SCALE

No.	DATE	REVISIONS	BY:

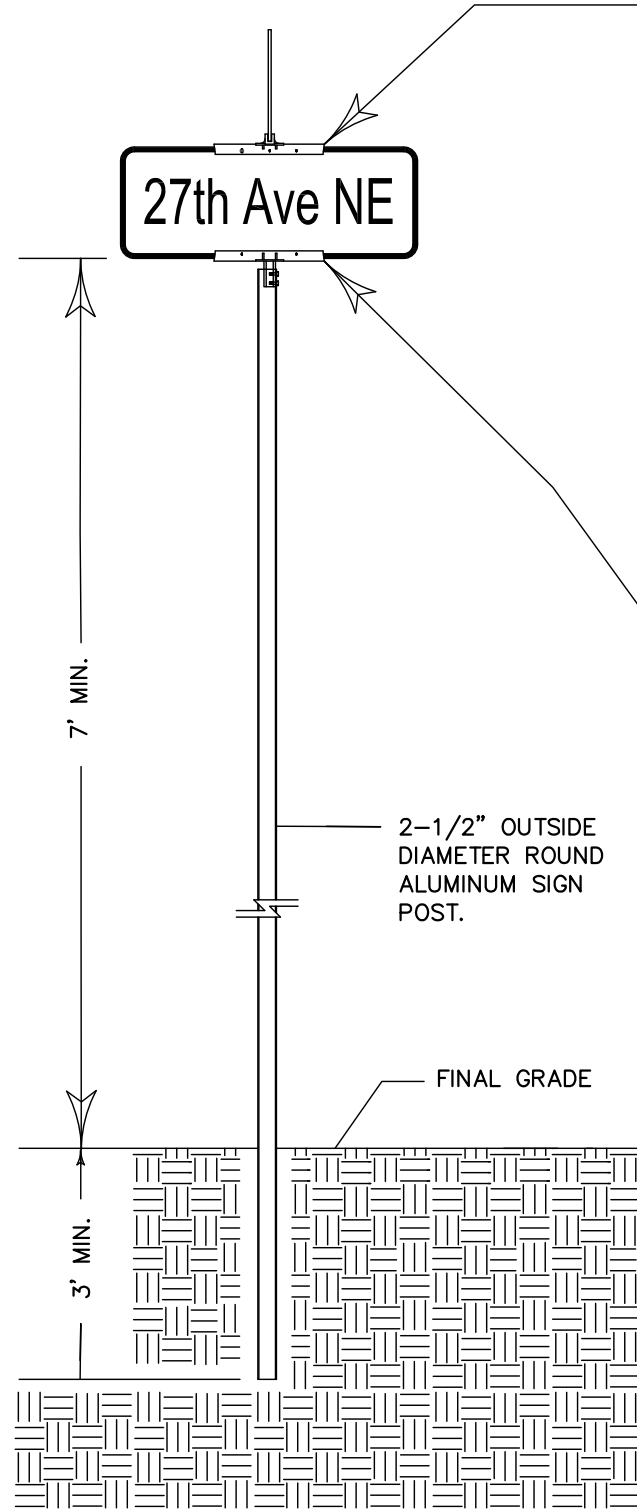

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SPECIAL PROVISION DETAILS

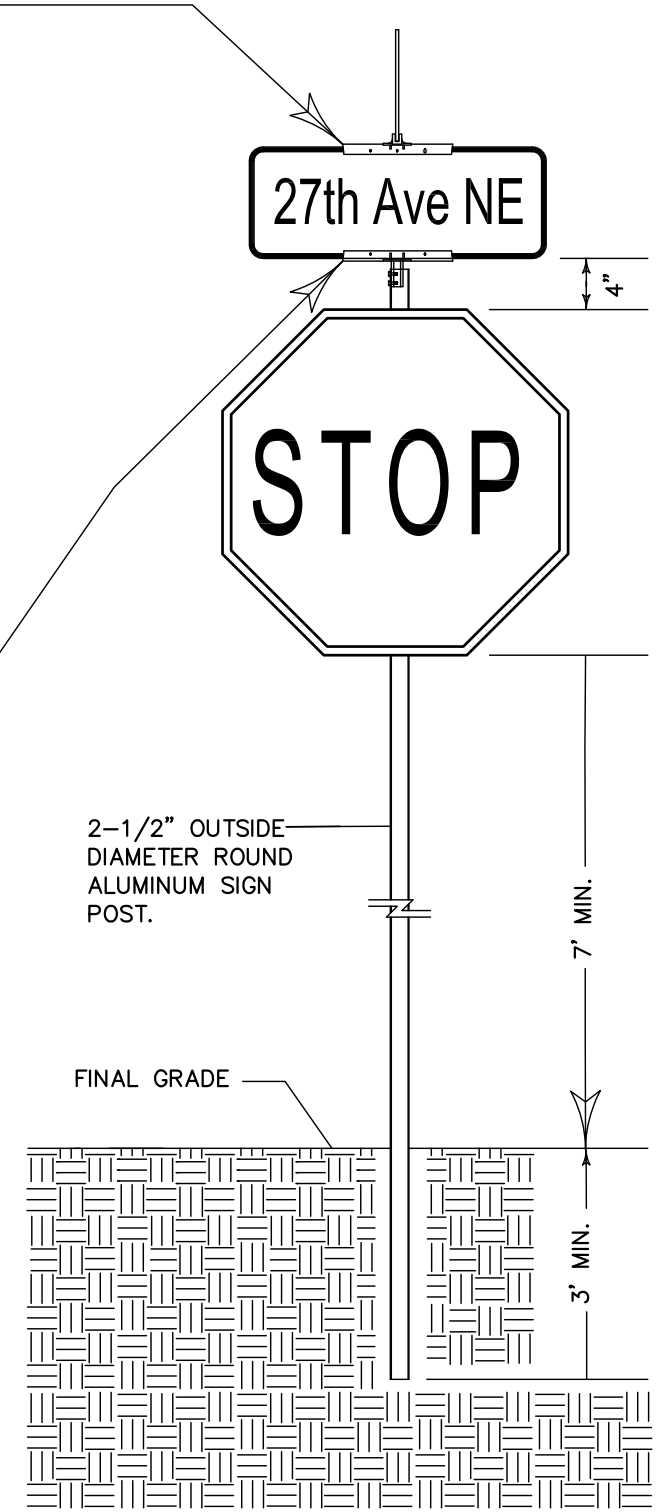
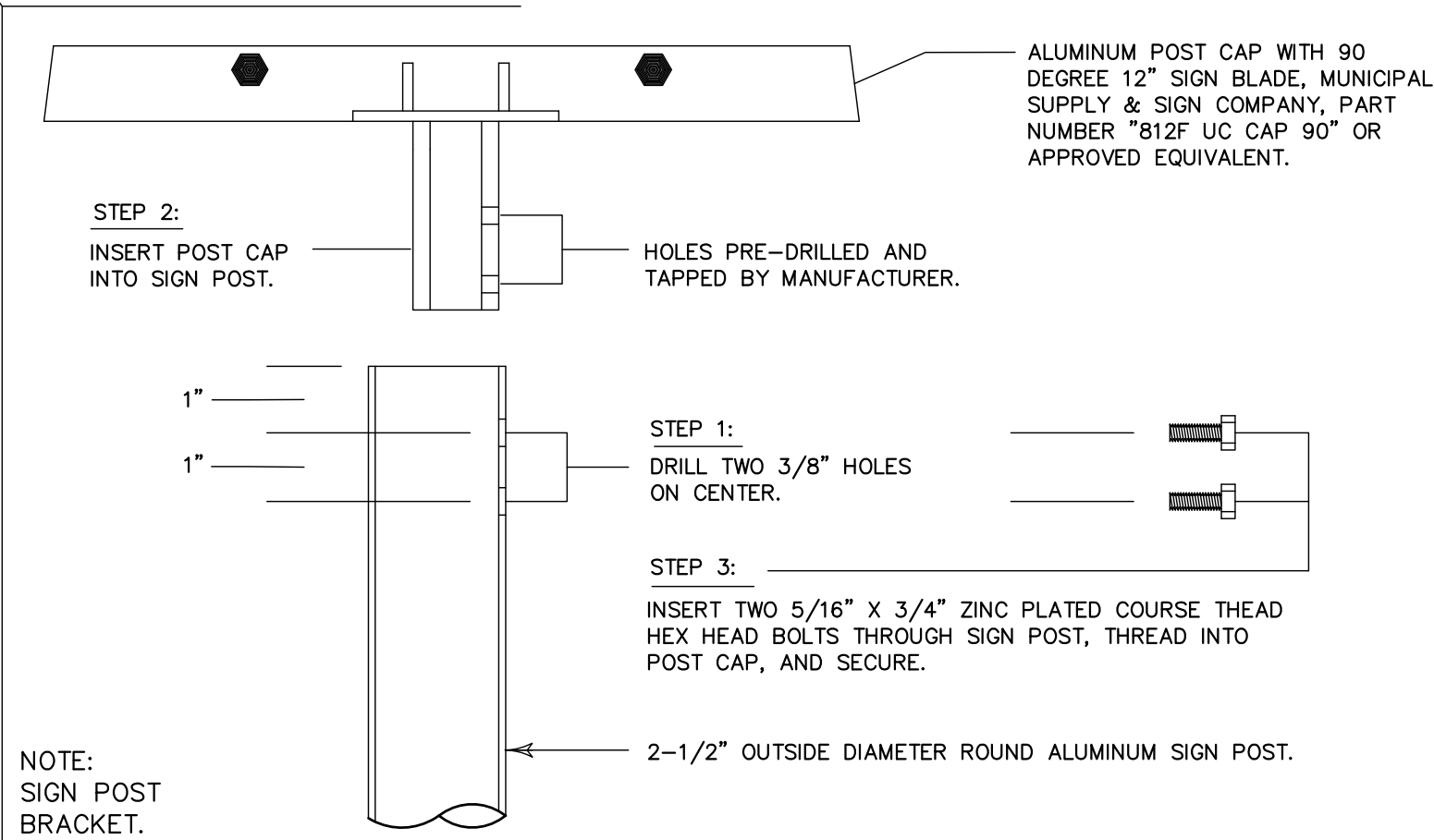
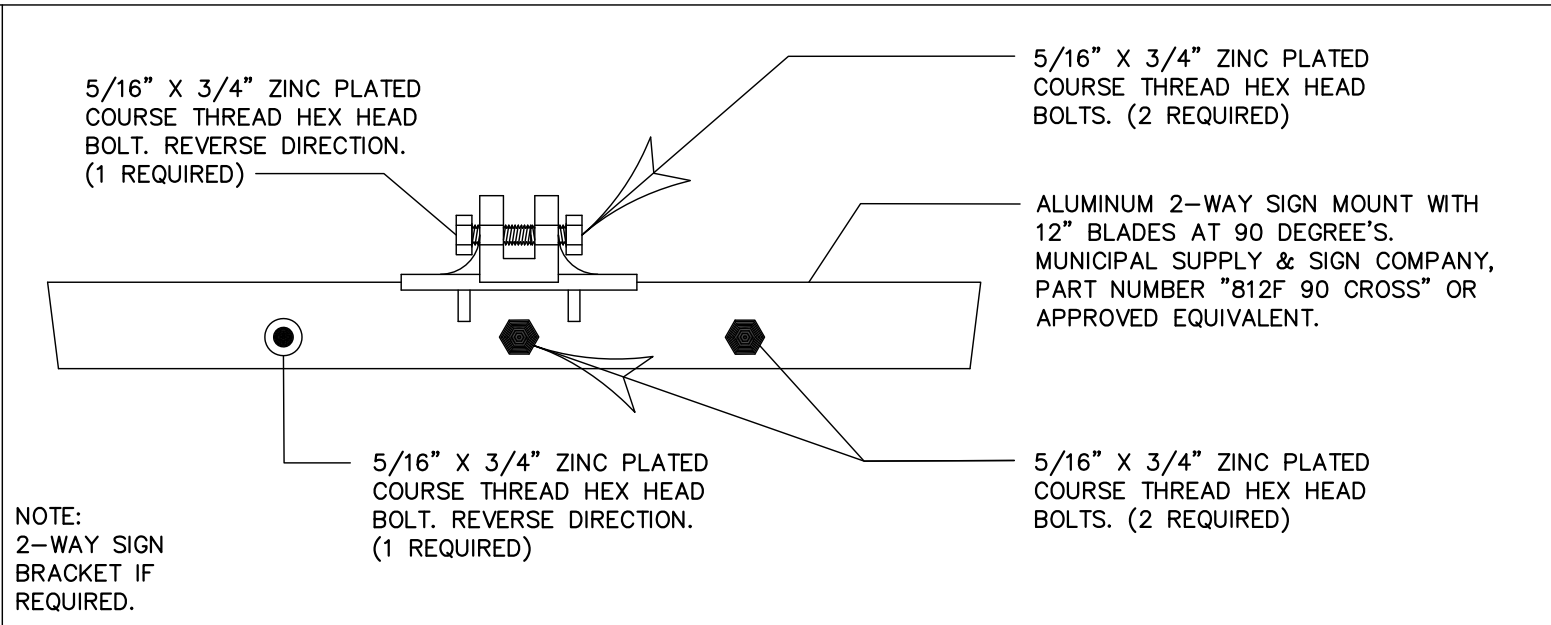
TITLE
TYPICAL SQUARE SIGN POST
INSTALLATION DETAIL

DESIGNED BY:	DATE:
CHECKED BY: C.C.	DATE:
HORIZONTAL SCALE: 1"=40'	DATE:
VERTICAL SCALE: NTS	DATE:
FILE No.	PROJECT No.

SHEET No.
 10



**TYPICAL REPAIR
OF EXISTING ROUND
SIGN POST DETAIL**
NOT TO SCALE



**TYPICAL REPAIR
OF EXISTING ROUND
SIGN POST DETAIL**
NOT TO SCALE

Note: Installation shall meet the Florida Department of Transportation Design Standards, Dated 2010, Index Number 17302.
 Note: This detail is to be used for the repair of an existing round sign post installation only.

No.	DATE	REVISIONS	BY:

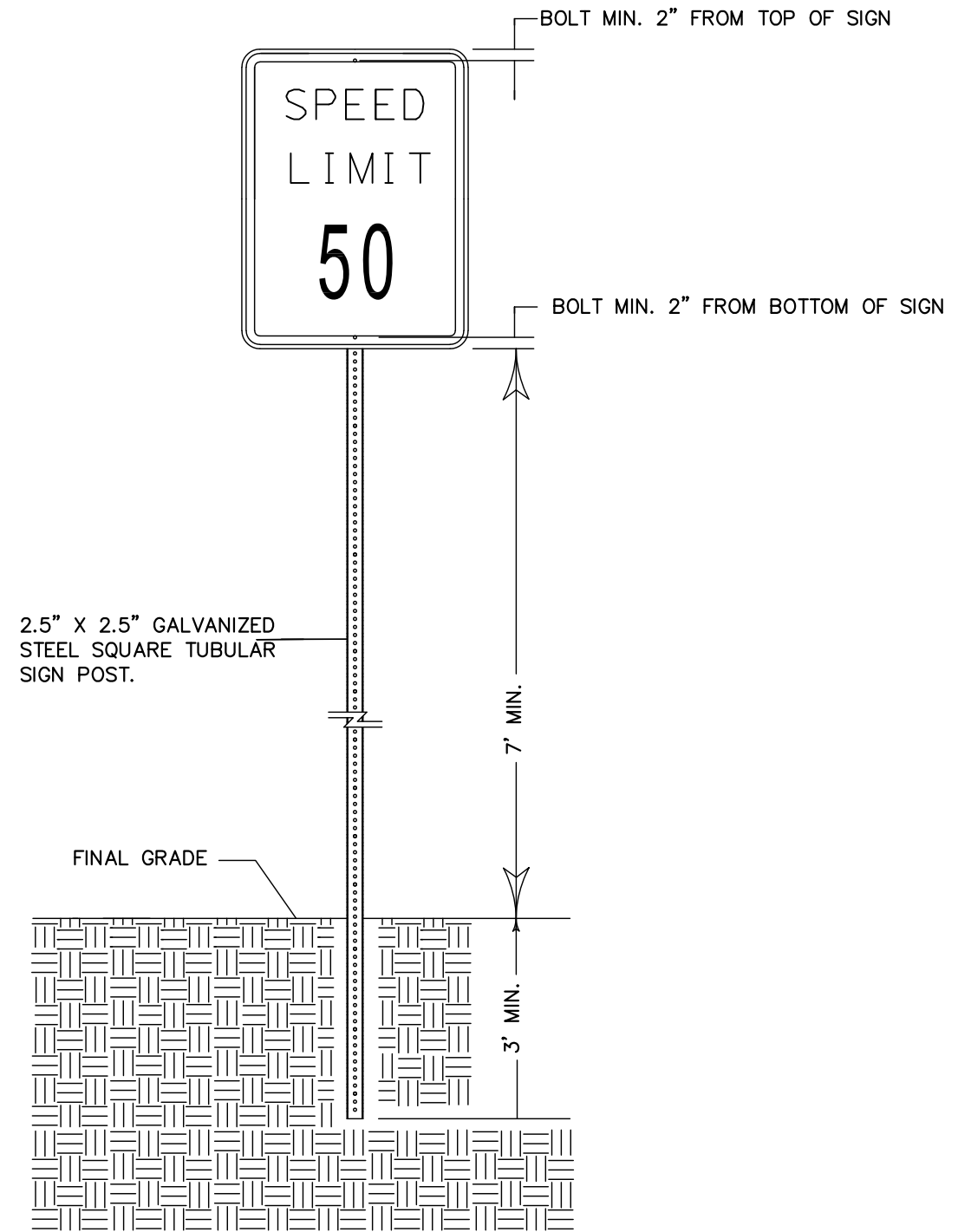
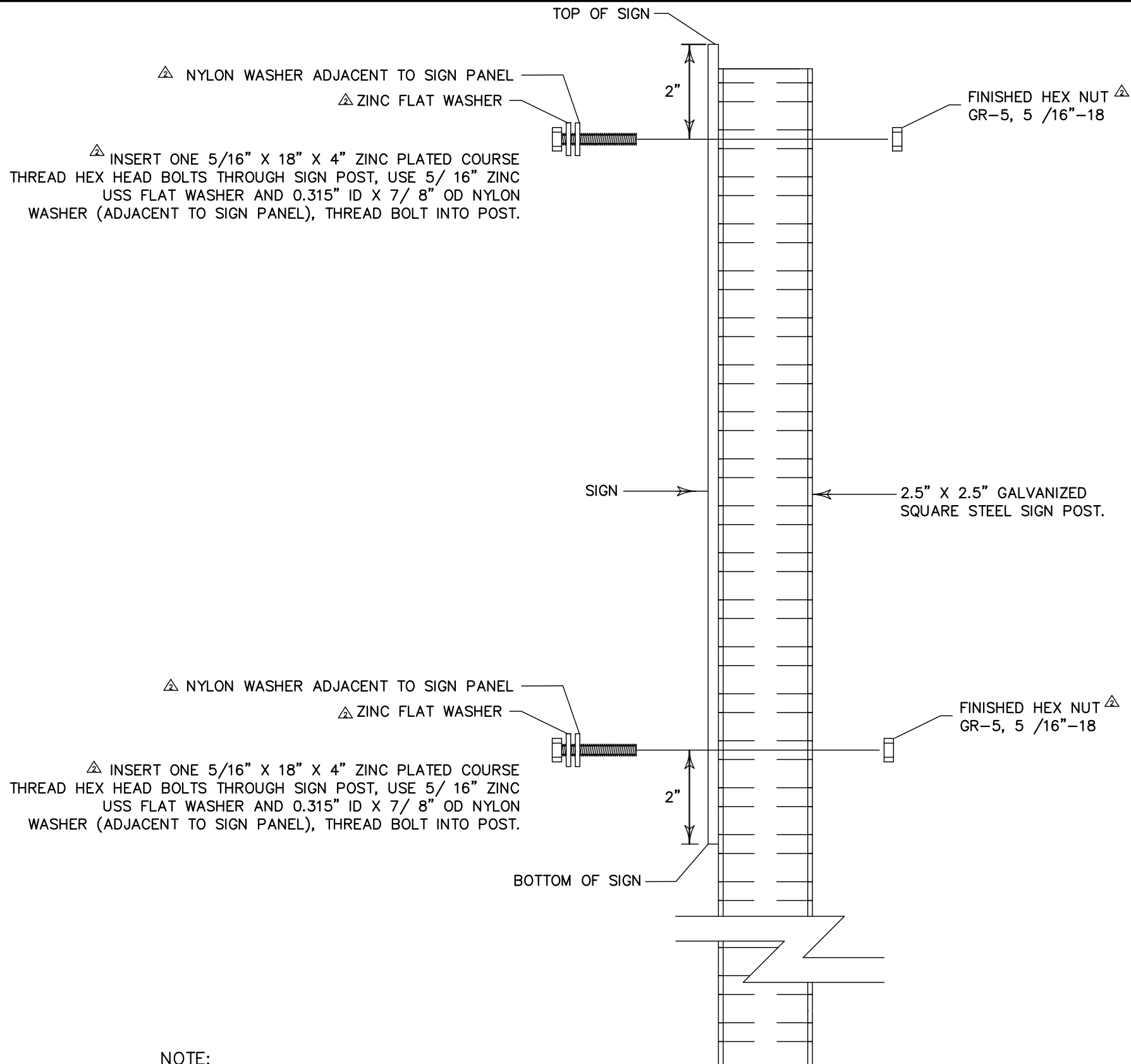

BOARD OF COUNTY COMMISSIONERS
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 TRANSPORTATION ENGINEERING
 DEPARTMENT
2885 SOUTH HORSESHOE DRIVE
 NAPLES, FLORIDA 34104 (239) 252-8192 FAX (239) 252-8868

PROJECT
**SIGNING AND PAVEMENT MARKING
 SPECIAL PROVISION DETAILS**

TITLE
**TYPICAL REPAIR OF EXISTING
 ROUND SIGN POST DETAIL**

DESIGNED BY:	DATE:
CHECKED BY: C.C.	DATE:
HORIZONTAL SCALE: 1"=40'	
VERTICAL SCALE: NTS	
DATE:	FILE NO. PROJECT NO.

SHEET No.
11



**GALVANIZED SQUARE
STEEL SIGN POST**

NOT TO SCALE

NOTE:
SIGN POST
BRACKET.

△ Note: Installation shall meet the Florida Department of Transportation Standard Plans, Dated FY 2023-24, Index Number 700-101.

No.	DATE	REVISIONS	BY:
△	7/25/2024	ADDED WASHERS AND NUT TO DETAIL, REVISED NOTES.	
△			
△			


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 TRANSPORTATION ENGINEERING
 DEPARTMENT
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PROJECT
**SIGNING AND PAVEMENT MARKING
 SPECIAL PROVISION DETAILS**

TITLE
**ROADWAY SIGN
 INSTALLATION ON SQUARE POST**

DESIGNED BY:	DATE:
CHECKED BY: C.C.	DATE:
HORIZONTAL SCALE: 1"=40'	
VERTICAL SCALE: NTS	
DATE:	FILE NO. PROJECT NO.

SHEET No.
 12