

GENERAL NOTES

- This project has been designed following the AASHTO Policy on Geometric Design of Highways and Streets, Sixth Edition, 2011, the Manual of Uniform Traffic Control Devices, current edition, and the 2015 PAG Standard Specifications (SSPI) and Details for Public Improvements (SDPI).
- Right-of-way encroachments shall be removed by the contractor as directed by the Engineer.
- All construction activity and test methods shall conform to the PAG SSPI and SDPI, 2015 editions. Said documents are on file at 201 N. Stone Avenue, Tucson, AZ 85726-7201. The said specifications and details may be modified or supplemented as shown or indicated in these plans and Special Provisions.
- The contractor shall comply with all applicable occupational safety and health administration regulations, in particular, shoring of trenches.
- The contractor shall obtain all permits required by governmental agencies.
- The contractor shall be responsible for the care, maintenance, repair, or replacement of existing facilities in the work area which have been removed or damaged during the course of construction. All repair, replacement or cleanup shall be completed to the satisfaction of the Engineer.
- The contractor is responsible for complying with all regulations and requests by the Engineer regarding dust pollution.
- It shall be the contractors responsibility to furnish, haul and apply all water required for compaction and for the control of dust from construction activity. The cost will be considered as included in the contract price for the various bid items for which this work is incidental.
- Upon commencement of work, traffic control devices shall be posted and maintained by the contractor until such a time as the work is complete. All warning signs, barricades, etc. shall be in accordance with the Manual on Uniform Traffic Control Devices 2009 Edition and as approved by the Engineer.
- Access shall be maintained to all businesses, residences, and side streets at all times except when approved by the Engineer.
- Utility locations, as shown on the plans, were compiled based on the best information available. Utility locations are not intended to be exact or complete. Prior to commencing construction the contractor shall verify the location of all utilities with the appropriate organizations, it shall be the responsibility of the contractor to protect all existing utilities in place that are not shown on the project plans to be relocated or modified. With the approval of the Engineer and the Owner of the utility, the contractor may remove and replace or relocate existing utilities for his convenience. No separate measurement and payment will be made for protection, removal and replacement, or relocation of existing utilities. The cost will be considered as included in the contract price for the various bid items in which this work is incidental. Contact 'Arizona 811' 1-800-STAKE-IT, two full working days prior to beginning construction. Saturday and Sunday are not considered working days.
- Removal of all cacti and native plants shall be in accordance with the provisions of the "Arizona Native Plant Law," A.R.S, Chapter 7.
- The project roadway shall be striped by the contractor in accordance with the details shown in the project plans and with the 2020 PC/COT Pavement Marking Design Manual and current revisions.
- All existing manhole frames and covers, survey monuments, water valves, etc. shall be adjusted to match finished grade where applicable and as directed by the Engineer. This work shall be considered incidental to the other items of work, except when the bidding schedule contains specific items on a unit basis.
- Various grading operations may be necessary at and around existing utility pole facilities, The cost will be considered as included in the contract price for the various bid items for which this work is incidental.
- All existing signs to be removed as part of this project are to be delivered to the City of Tucson Sign Shop at 4004 S. Park (791-3154.) The contractor is responsible for unloading the salvaged material. The City of Tucson will provide new signing prior to completion of the construction activities.
- Transitions from vertical curb to wedge curb, depressed curb, and gutter will be considered as included in the contract price for item No. 9080005, Concrete Curb. Depressed curb will be considered to be included in the contract price for concrete curb.

BASIS OF SURVEY

Basis of Bearings:
 The Basis of Bearings for this project is a grid bearing of South 00°54'01" East between Pima County Geodetic control points "EG01" a punched 40d nail in casting at the intersection of 5th Street and 1st Ave and "EL01" a 2" brass cap in concrete with punch in 16th Street 275' ± southwest of Toole Avenue.

Basis of Elevations:
 The Basis of Elevations for this project is the Pima County Geodetic Control Point EG01 being a punched 40d nail in casting at the intersection of 5th Street and 1st Ave, the elevation is 2,401.86 (NAVD88 Datum).

LENGTH OF PROJECT

9th Ave Bike Blvd
 (St Marys to Fort Lowell Rd)
 Gross Length = 14,375 feet = 2.72 miles

5th St Bike Blvd
 (6th Ave to Euclid Ave)
 Gross Length = 2,882 feet = 0.55 miles

9th Street Bike Blvd
 (4th Ave to Treat Ave)
 Gross Length = 11,622 feet = 2.20 miles

LEGEND

- New Pavement
- New Concrete
- New Riprap
- Remove Pavement
- Nail (As Noted)
- Survey Monument
- Pima County Geodetic Control Point
- Water Valve
- Water Meter
- Fire Hydrant
- Gas Meter
- Utility Pole
- Utility Pole w/riser
- Guy Wire
- Electric Transformer
- Street Light
- Pull Box
- Communications Pedestal
- Telephone Pedestal
- Gate or Post Barricade
- Sign
- Sewer Manhole
- Mail Box
- Sewer Clean-out
- Gas Valve
- Communications Manhole
- Traffic Signal
- Electric Box
- Monument Line
- Right of Way
- Property Line
- Fence Line
- Overhead Utilities
- Existing Storm Drain Pipe
- Gas Line
- Fiber Optic
- 6" Sewer
- 6" Water

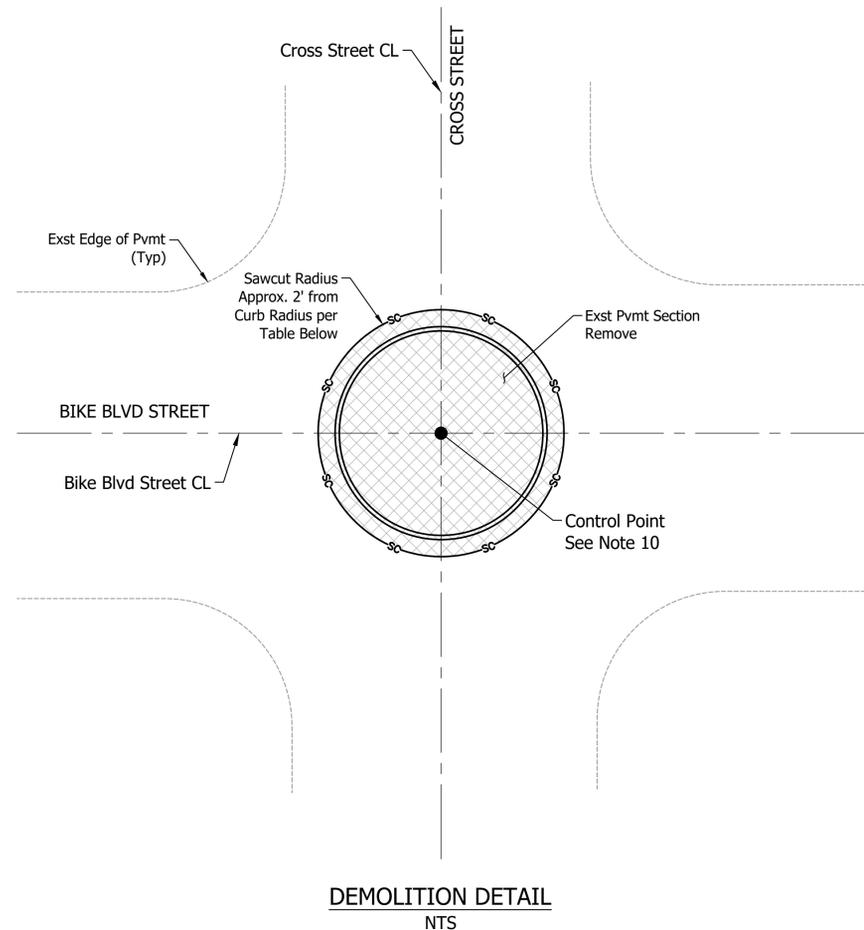
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NT01 of *GATE*

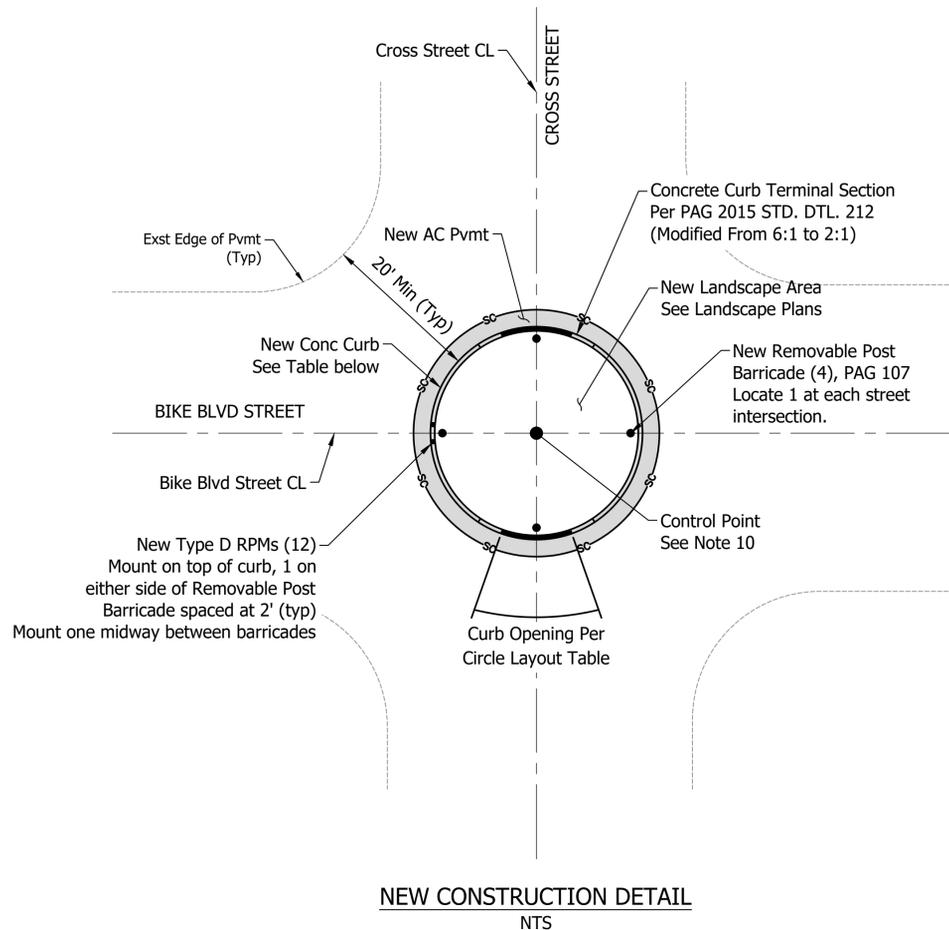
2 E CONGRESS STREET, SUITE 705 TUCSON, AZ 85701 P 520.544.4067 F 520.544.9616		DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION 9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE GENERAL NOTES SHEETS																																									
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DEMOLITION DETAIL
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NEW CONSTRUCTION DETAIL
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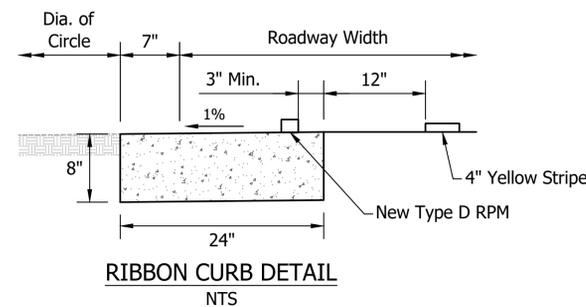
- Remove Exst Pvmt
- New AC Pvmt Patch per PAG 216, Type 2. AC shall be PAG Mix No. 2 (Terminal Mix).

Notes

1. For traffic circle construction method and additional information, see COT Standard Detail No. 110 M-2021-001.
2. If present within a traffic circle, manholes shall be reset at the same grade as that of pre-construction, existing pavement grade. A round concrete collar shall be installed per PCRWRD Detail 212. Grading within the traffic circle shall match the concrete collar installation. Resetting of manholes and construction of concrete collars will be paid for under Item 5090110, Sewer Manhole Adjustment.
3. Existing water valve boxes, if present, shall be adjusted to final grade per Tucson Water SD-300. Valve box adjustments will be paid under Item 5105101, Potable Water, Adjust Valve Box and Cover.
4. The contractor shall protect in place the existing survey monument(s) if present. If monument present, grade 5:1 slopes around concrete foundation. All work regarding survey monuments shall be directed and approved by the Engineer and a City of Tucson Surveyor is present to guide the work. Survey monuments to be reset with frame and cover per PAG 2015 Std. Dtl. 103, sheet 2 of 3 if destroyed or disturbed. Any work necessary to protect in place or adjust the survey monuments will be paid for under Item 9090002, Survey Monument.
5. Removal of existing pavement will be paid for under Item 2020029 Removal of Bituminous Pavement. Sawcutting will be considered incidental to the removal cost.
6. New ribbon curb will be paid for under Item 9080008, Concrete Ribbon Curb.
7. New AC Pvmt will be paid for under Item 406008, Asphaltic Concrete (Miscellaneous Paving).
8. See sheet SG04 for traffic circle signing information
9. New removable post barricades will be paid for under Item 9540011, Removable Post Barricade (Std Dtl 107).
10. Traffic circle control point shall be located at the intersection of the Bike Blvd Street and Cross Street centerlines. If approach and departure centerlines do not match the centerline of the lesser pavement width shall be used.

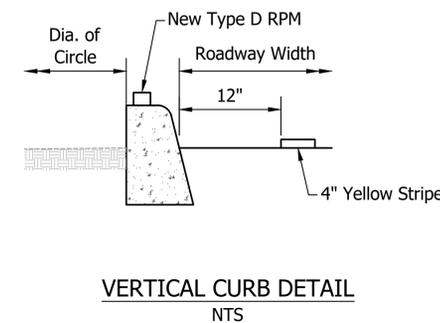
TRAFFIC CIRCLES								
TC #	Bike Blvd Street	Cross Street	Diameter ^A (FT)	Curb Type ^B	Curb Length (LF) ^C	MH ID # ^D	Survey Monument ^E	Curb Opening (LF) ^F
1	10th Ave	Adams St	20	Vertical	50	8154-14	1	16
2	9th Ave	Lester St	20	Vertical	66	N/A	1	N/A
3	9th Ave	Ventura St	20	Vertical	50	9471-04	0	16
4	Castro Ave	Alturas St	20	Vertical	50	9167-01	0	16
5	Castro Ave	Kelso St	20	Vertical	50	9858-110	1	16
6	Castro Ave	Laguna St	20	Vertical	50	9444-18	0	16
7	Balboa Ave	Delano St	20	Vertical	50	5512-01	0	16
8	5th St	Third Ave	25	Vertical	82	N/A	1	N/A
9	9th St	First Ave	25	Vertical	66	8808-112	2	16
10	9th St	Park Ave	21 ^G	Vertical	60	9907-15	1	16
11	9th St	Warren Ave	15	Ribbon	60	2564-01	1	N/A
12	9th St	Norris Ave	18	Vertical	44	9907-168	1	16
13	7th St	Plumer Ave	15	Ribbon	60	9907-95	1	N/A

- A. The diameter of the circle is measured from back of curb to back of curb and should be adjusted to maintain a 20' minimum spacing to curb return.
- B. Refer to ribbon curb detail this sheet.
- C. Curb length includes terminal curb section.
- D. Manhole present within traffic circle. All manholes within traffic circles to be grade adjusted per Std Dtl RWRD 304. New concrete collar shall be per Std Dtl RWRD 212.
- E. Existing survey monument if present within traffic circle.
- F. Curb opening length is total length of header curb.
- G. Diameter measured along Bike Blvd Centerline. See Detail A1 for layout information.



RIBBON CURB DETAIL
NTS

- Ribbon Curb Notes:
1. Broom finish all surfaces.
 2. Construction joint spacing 10' maximum.



VERTICAL CURB DETAIL
NTS

DETAIL A

Traffic Circle
Sheet 1 of 2

DT01 OF DT09

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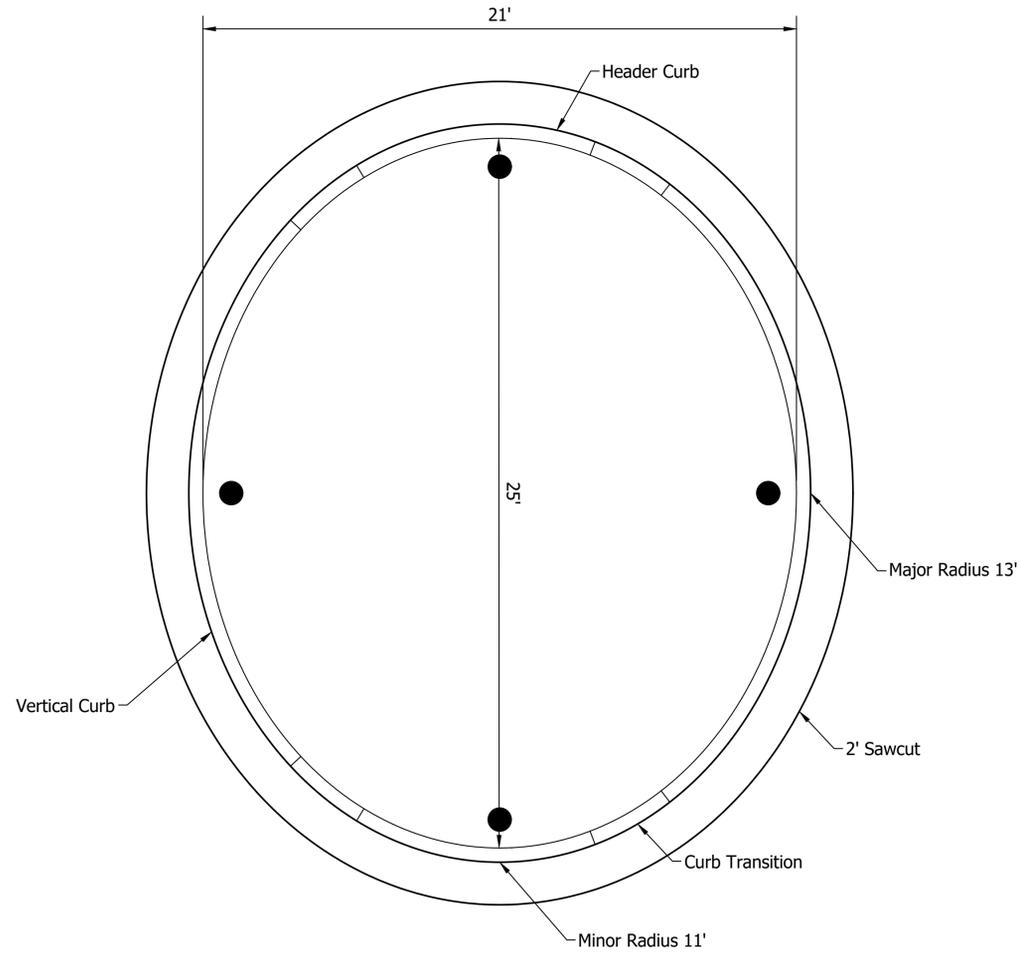
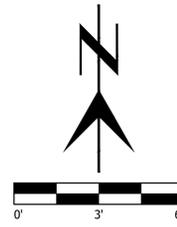
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
CIVIL DETAIL SHEETS

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				TRANSPORTATION DIRECTOR
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				PLAN NO. U-2022-006



TRAFFIC CIRCLE DETAIL



DETAIL A1

Traffic Circle
9th Street & Park Ave
Sheet 2 of 2

DT02 OF DT09

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE

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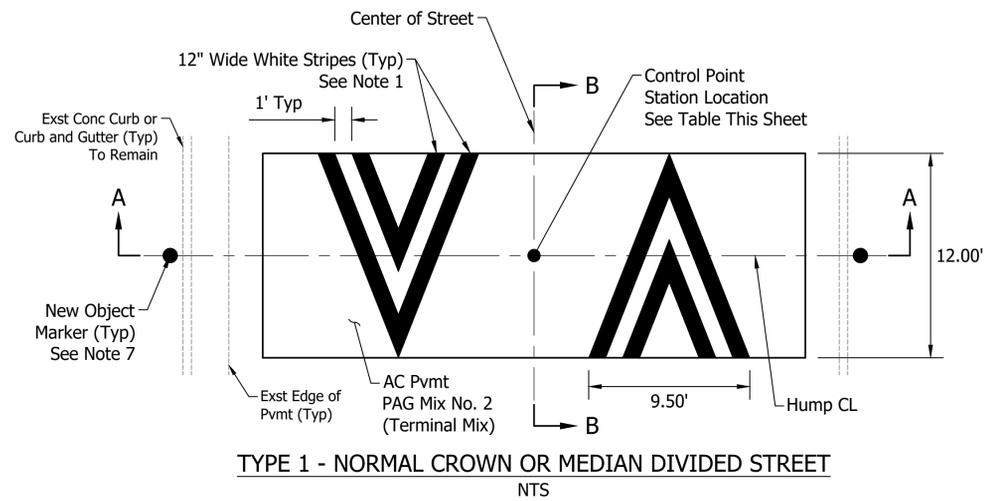
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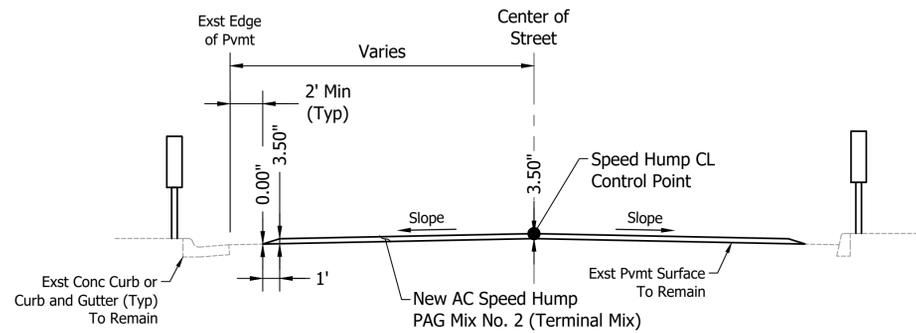
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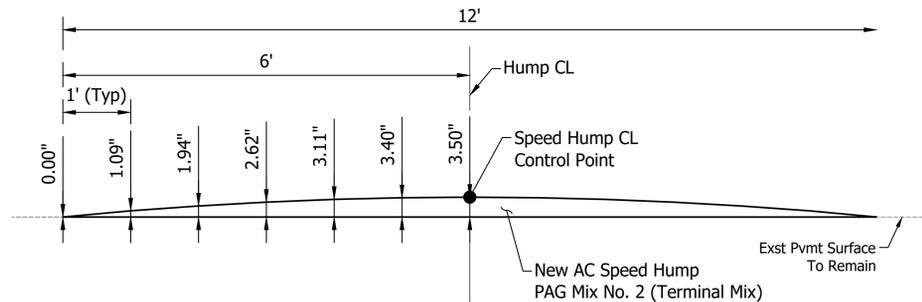
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TYPE 1 - NORMAL CROWN OR MEDIAN DIVIDED STREET
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SECTION A-A
NTS



SECTION B-B
NTS

SPEED HUMPS			
SH #	Bike Blvd Street	Near Cross Street	Distance (FT)
1	9th Ave	4th Street	174 (North)
2	University Blvd	10th Ave	178 (East)
3	10th Ave	University Blvd	197 (North)
4	10th Ave	Drachman St	123 (North)
5	9th Ave	Lester St	132 (South)
6	9th Ave	Plata St	152 (South)
7	9th Ave	Ventura St	150 (South)
8	9th Ave	Flores St	156 (South)
9	9th Ave	Flores St	156 (North)
10	9th Ave	Sahuaro St	132 (South)
11	9th Ave	Sahuaro St	72 (North)
12	Castro Ave	Grant Rd	294 (North)
13	Castro Ave	Kelso St	317 (South)
14	Castro Ave	Glenn St	291 (South)
15	Castro Ave	Glenn St	296 (North)
16	Castro Ave	Laguna St	232 (North)
17	Balboa Ave	Blacklidge Dr	270 (North)
18	5th Street	6th Ave	312 (East)
19	5th Street	2nd Ave	136 (West)
20	9th Street	2nd Ave	125 (East)
21	9th Street	1st Ave	124 (East)
22	9th Street	Tyndall Ave	94 (West)
23	9th Street	Cherry Ave	221 (East)
24	9th Street	Warren Ave	185 (East)
25	9th Street	Campbell Ave	143 (East)

A. Distance to speed hump control point to be measured from nearest cross street FOC as listed in table.

Notes

- For additional information, see detail per PC/COT Pavement Marking Design Manual Sheet No. 10.3. RPMs and types shall be located and placed per Sheet No. 10.3.
- The types of speed humps shown in the table below and on the plan sheets may be modified per the direction of the Engineer depending on existing conditions. There will be no pay adjustment for the modification of type installed.
- PAG Mix No. 2 (Terminal Mix) shall be used for asphaltic concrete speed hump(s).
- Speed hump heights are provided as a maximum.
- Center speed hump(s) within the roadway.
- Speed humps will be measured and paid for under Item 4060200, Asphaltic Concrete (Speed Hump), on a per each (EA) basis. Pavement Markings (striping and RPMs) per Std Dtl 5-18-1 shall be considered incidental and included in the cost of the item.
- New Object Markers will be paid for under Item 7030010, Object Marker (OM2-2V) (All Direction).
- Speed hump locations should be verified in the field to avoid conflicts with utilities and other roadway features.

DETAIL B

Speed Hump
Sheet 1 of 1

DT03 of DT09

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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE

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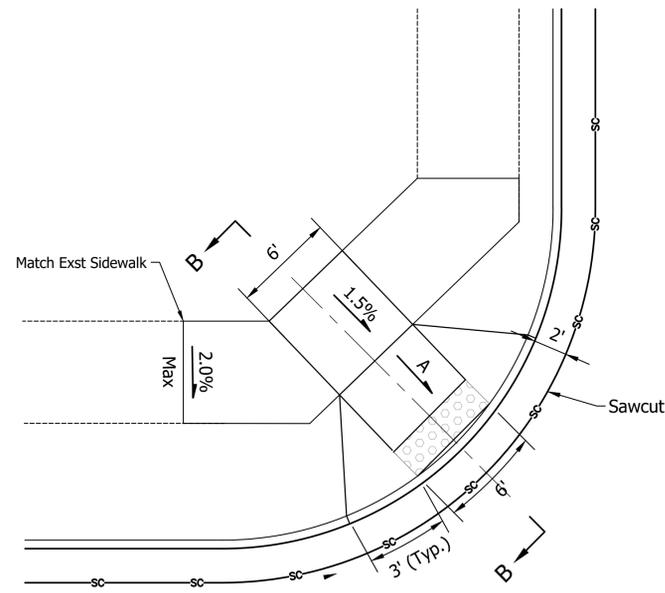
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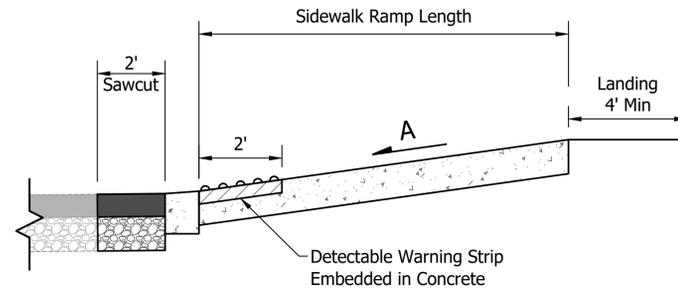


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A - 5.0% Min and 8.3% Max

TYPE 1 - CURB ACCESS RAMP
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SECTION A-A
NTS

ACCESS RAMP CONTROL POINTS			
AR #/ #	Bike Blvd Street	Cross Street	Corner
1	9th Ave	Grant Rd	SW
2	9th Ave	Grant Rd	SW

Notes

- Sawcut 2' of pavement around the existing curb and curb access ramps to construct new curb and curb access ramps. Replace AC with PAG Mix No. 2 per PAG Std Dtl 216, Type 2. New AC pavement will be considered incidental and included in the cost of the item.
- Sawcutting of the existing sidewalk, curb, and pavement shall be considered incidental to the cost of the project. Trim, tack, and join new and existing AC. Match new and existing concrete per PAG Std Dtl 211.
- Removal of miscellaneous concrete and bituminous pavement shall be included in the cost of Item 2020001, Removal of Structures and Obstructions.
- See PAG Std Dtl 200 for joint requirements. Sidewalk will be paid for under Item 9080201, Concrete Sidewalk.
- Depressed curb and curb transitions will be measured and paid for under Item 9080005, Concrete Curb, PAG Std Dtl 209, Type 2. Concrete vertical curb shall use h=6".
- Curb access ramps will be paid for under Item 9080288, curb Access Ramp. Ramp curb is incidental to the cost of the ramp. Ramp curb shall be 6"x12" and shall extend to the bottom of the adjacent concrete sidewalk and access ramp.
- Existing ramp and sidewalk pavers shall be salvaged and reused, where applicable.

DETAIL E

Access Ramps
General Notes
Sheet 1 of 2

DT06 of DT09

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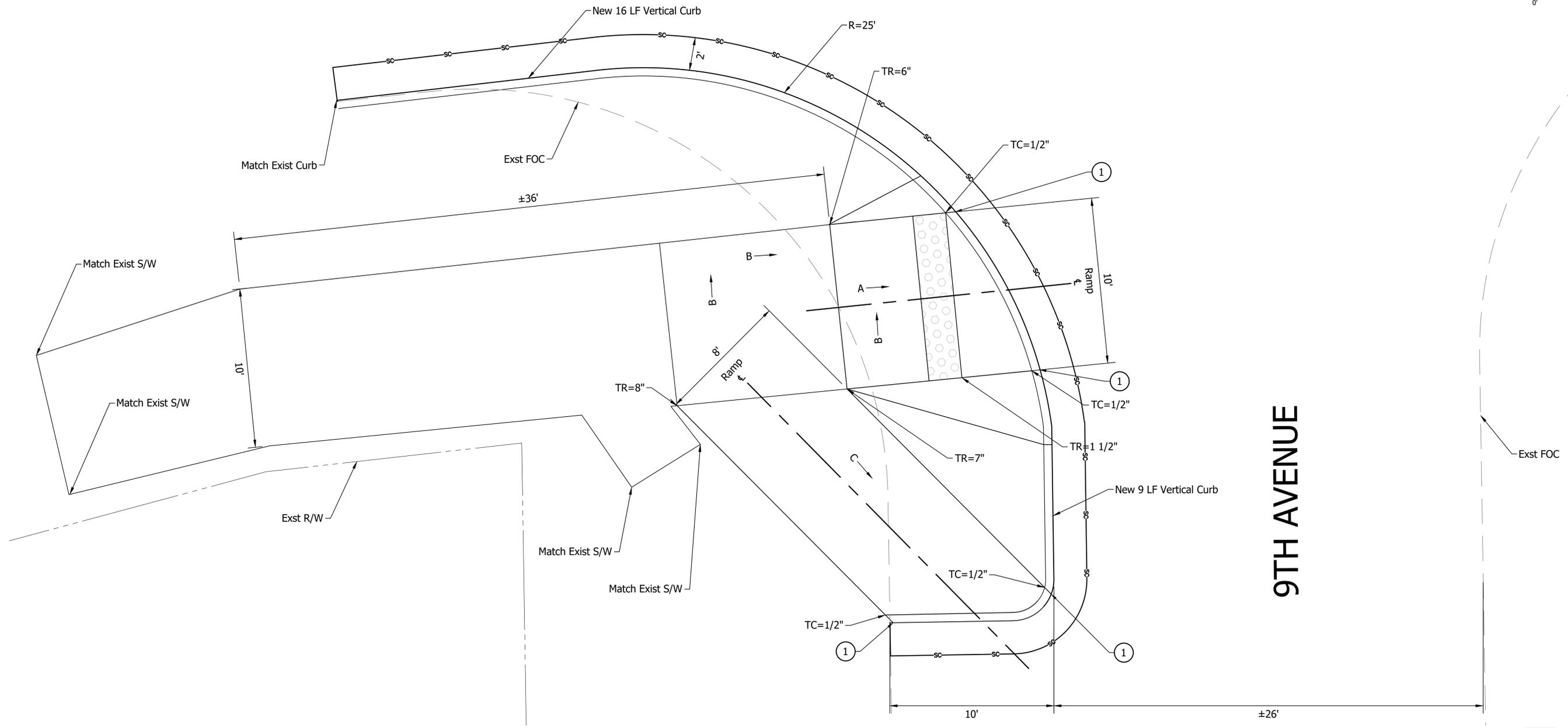
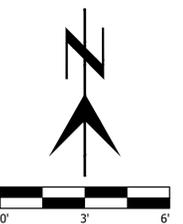
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GRANT RD



NOTES

1. See PAG Std Dtl 207, Sheet 10 of 10, for information regarding detectable warning strips.
2. For design elements not shown in this detail, see PAG Std Dtl 207, Sheet 5 of 10.

- A - 5% min and 12:1 max slope
- B - 2% max slope
- C - 12.5% max bike ramp slope
- TC=Top of Curb
- TR=Top of Ramp

DETAIL E1

Access Ramps
9th Ave & Grant Rd
Sheet 2 of 2

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9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE

CIVIL DETAIL SHEETS

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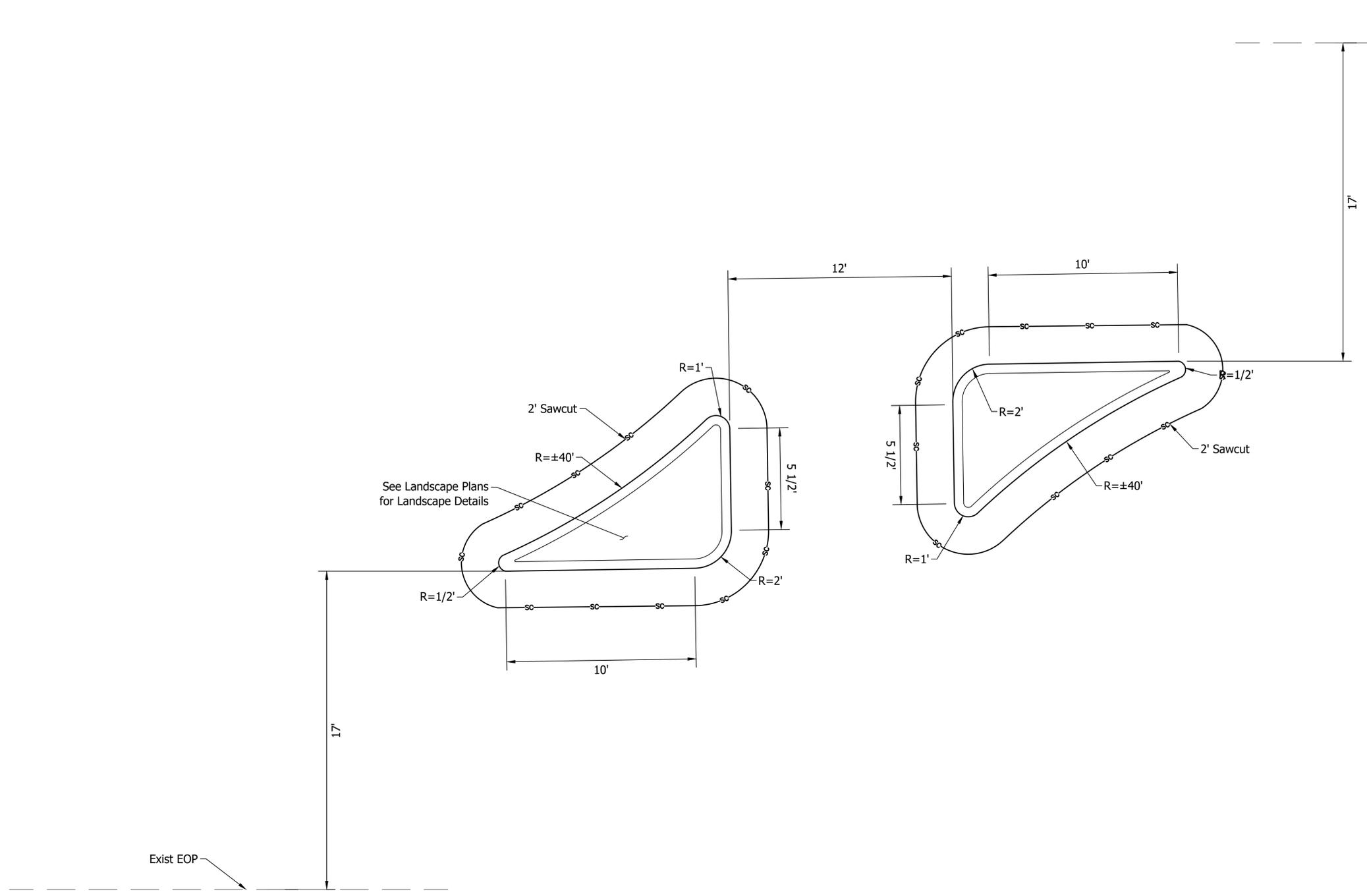
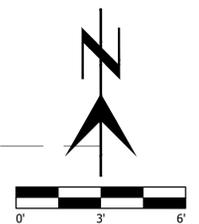
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REF. _____ SCALE: 1"=3'
 TRANSPORTATION DIRECTOR
 PLAN NO. U-2022-006



DRWN. BY BDH 20 22 DSGN. BY BDH 20 22 CHKD. BY FLG 20 22
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DETAIL F

Splitter Island
9th Avenue & Glenn St
Sheet 1 of 1

DT08 of DT09

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SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
CIVIL DETAIL SHEETS

NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.

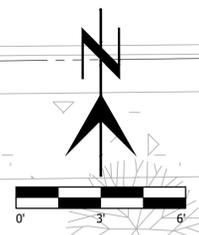
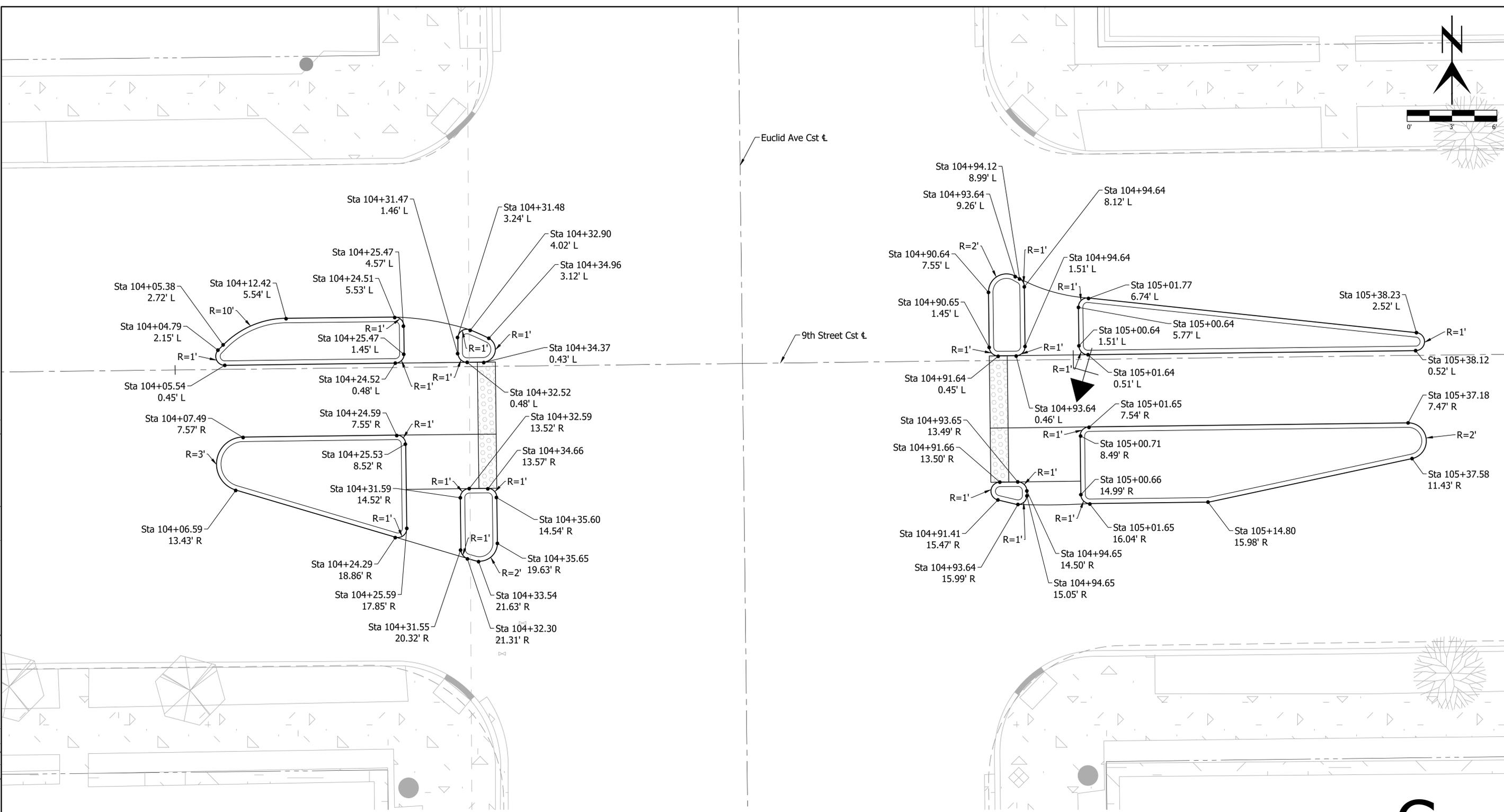
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				TRANSPORTATION DIRECTOR
				REF. SCALE: 1"=3'
				PLAN NO. U-2022-006



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- NOTES**
- See PAG Std Dtl 207, Sheet 10 of 10, for information regarding detectable warning strips.

DETAIL G

TOUCAN
 9TH STREET & EUCLID AVE
 Sheet 1 of 1 DT09 of DT09

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 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE

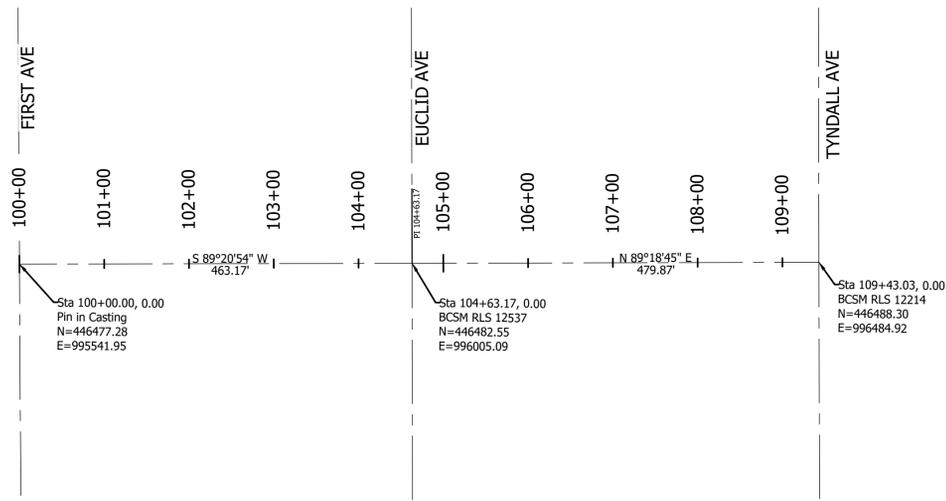
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REF. SCALE: 1"=5'				
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PLAN NO. U-2022-006				



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 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
HORIZONTAL CONTROL SHEETS

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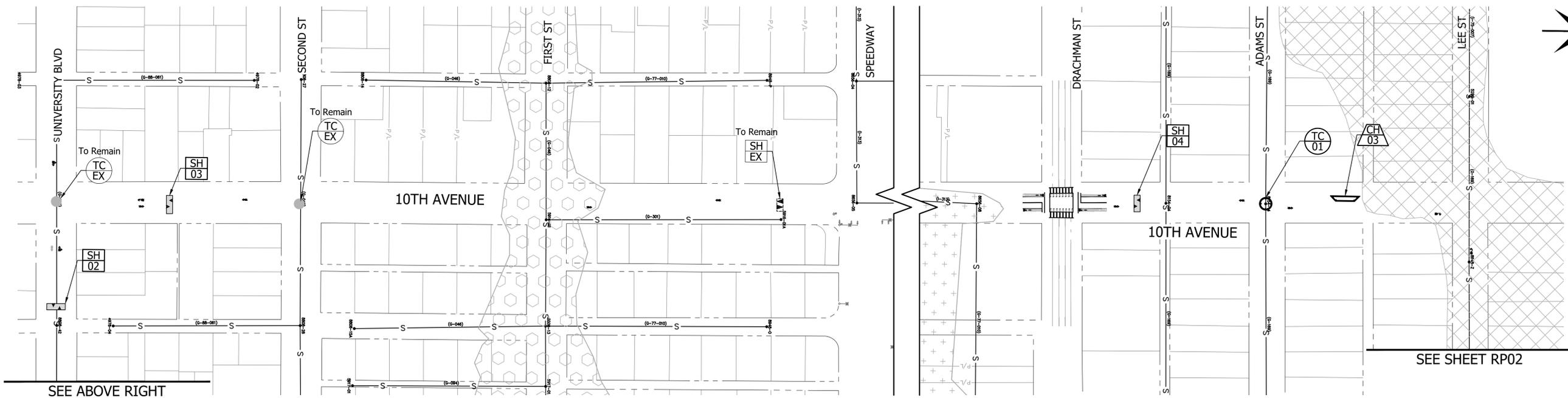
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APPROVED _____ 20__	13 OF 59
TRANSPORTATION DIRECTOR	
REF. _____ SCALE: 1"=100'	PLAN NO. U-2022-006



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KEYNOTES LEGEND

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|------------|---|--------------|--|
| NEW | | EXIST | |
| TC ## | Traffic Circle Reference ID No. See Detail A for location, configuration, and additional information. | TC EX | |
| SH ## | Speed Hump Reference ID No. See Detail B for location, configuration, and additional information. | SH EX | |
| CH ## | Chicane Reference ID No. See Detail C for location, configuration, and additional information. | | |
| CI ## | Center Island Reference ID No. See Detail D for location, configuration, and additional information. | | |
| AR ## | Access Ramp Reference ID No. See Detail E for location, configuration, and additional information. | | |
| | FEMA Zone AE | | City of Tucson West University Wash |
| | FEMA Zone X | | City of Tucson Mabel St Flood Boundary |

RP01 OF RP06

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ROADWAY PLAN SHEETS

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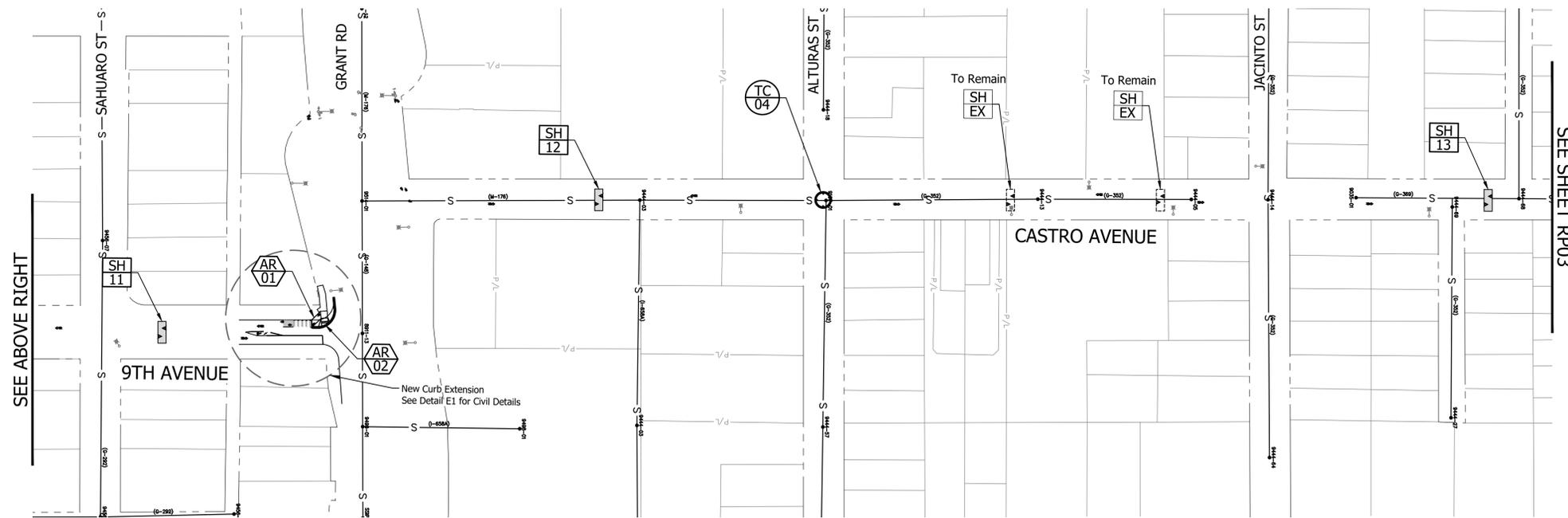
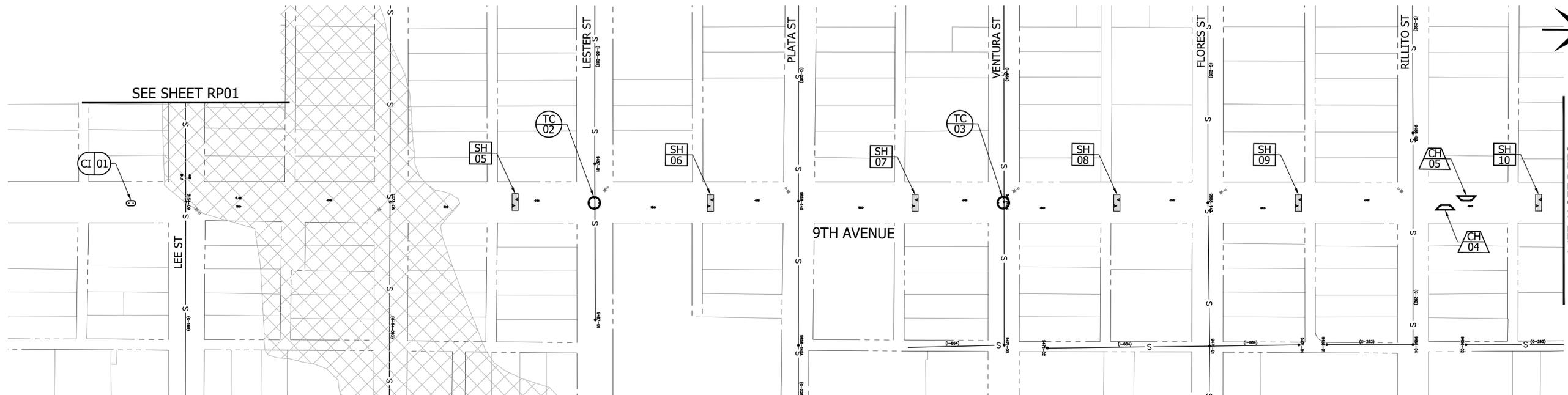
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 TRANSPORTATION DIRECTOR

REF. _____ SCALE: 1"=100'
 PLAN NO. U-2022-006



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KEYNOTES LEGEND

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| NEW | | EXIST |
| | Traffic Circle Reference ID No. See Detail A for location, configuration, and additional information. | |
| | Speed Hump Reference ID No. See Detail B for location, configuration, and additional information. | |
| | Chicane Reference ID No. See Detail C for location, configuration, and additional information. | |
| | Center Island Reference ID No. See Detail D for location, configuration, and additional information. | |
| | Access Ramp Reference ID No. See Detail E for location, configuration, and additional information. | |
| | FEMA Zone AE | |
| | FEMA Zone X | |

RP02 OF RP06

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 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
ROADWAY PLAN SHEETS

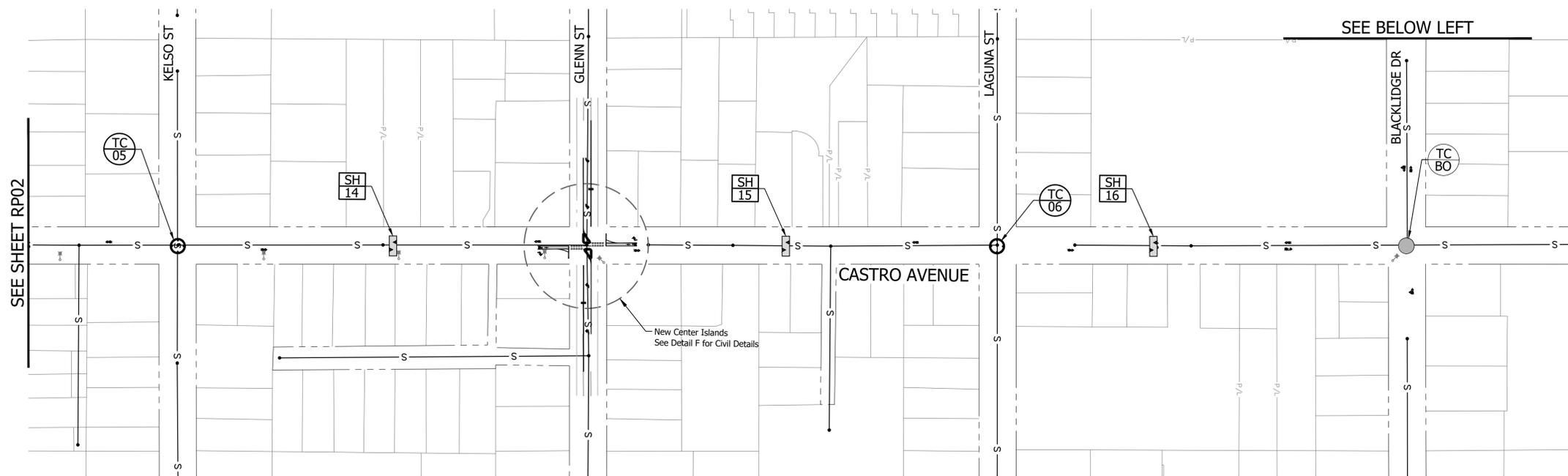
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REF. _____ SCALE: 1"=100'				PLAN NO. U-2022-006



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KEYNOTES LEGEND

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| NEW | | EXIST | BY OTHERS |
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| | Speed Hump Reference ID No. See Detail B for location, configuration, and additional information. | | |
| | Chicane Reference ID No. See Detail C for location, configuration, and additional information. | | |
| | Center Island Reference ID No. See Detail D for location, configuration, and additional information. | | |
| | Access Ramp Reference ID No. See Detail E for location, configuration, and additional information. | | |
| | FEMA Zone AE | | City of Tucson West University Wash |
| | FEMA Zone X | | City of Tucson Mabel St Flood Boundary |

RP03 OF RP06

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ROADWAY PLAN SHEETS

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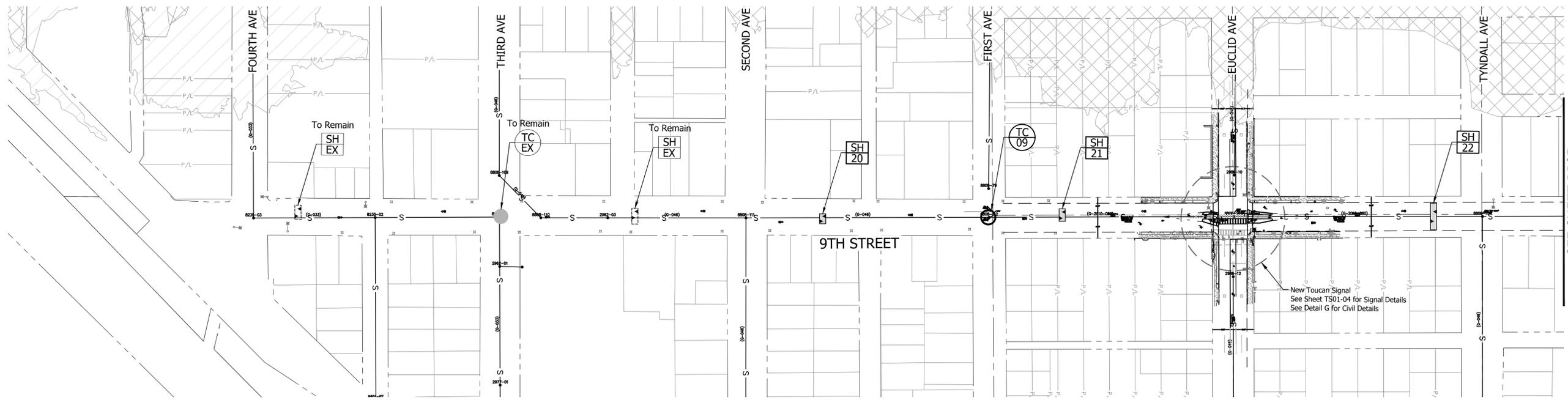
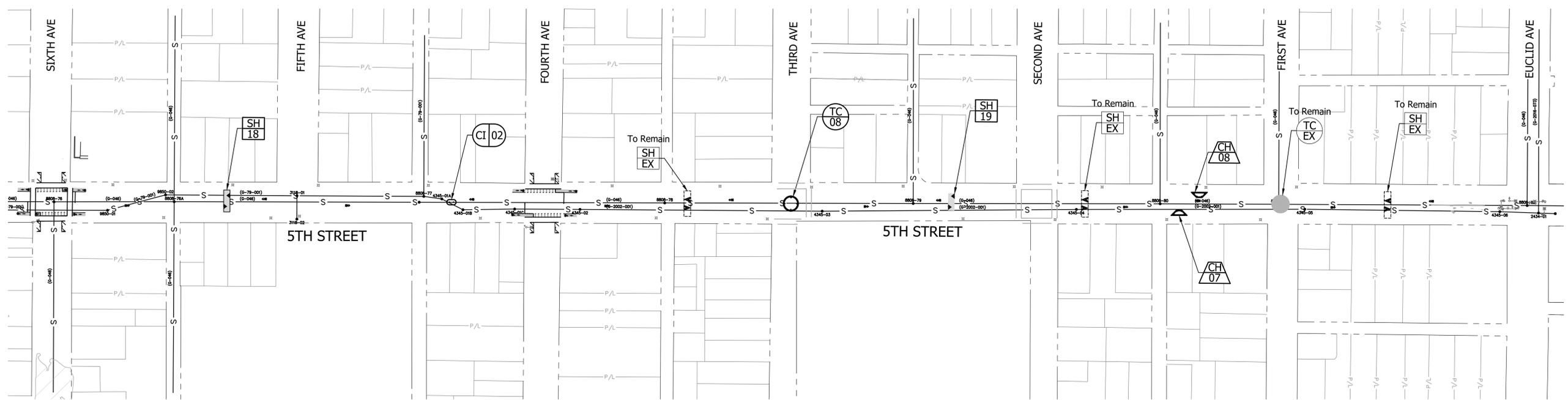
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SEE SHEET RP05

KEYNOTES LEGEND

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| NEW | | EXIST |
| | Traffic Circle Reference ID No. See Detail A for location, configuration, and additional information. | |
| | Speed Hump Reference ID No. See Detail B for location, configuration, and additional information. | |
| | Chicane Reference ID No. See Detail C for location, configuration, and additional information. | |
| | Center Island Reference ID No. See Detail D for location, configuration, and additional information. | |
| | Access Ramp Reference ID No. See Detail E for location, configuration, and additional information. | |
| | FEMA Zone AE | |
| | FEMA Zone X | |

RP04 OF RP06

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 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE

ROADWAY PLAN SHEETS

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Notes

1. After locations for wayfinding signs are staked, the contractors shall obtain approval by the Engineer before installing signs. The Engineer shall check sign locations for conflicts with existing structures, utilities, signs, and right-of-way; sign spacing; and distances to and from intersections.
2. Bike Blvd signs shall be installed above existing street name signs as noted in the directions of the Bike Blvd street. See SG03 for additional information.

Wayfinding Sign Number.
 See Sheet SG03 for details and dimensions.

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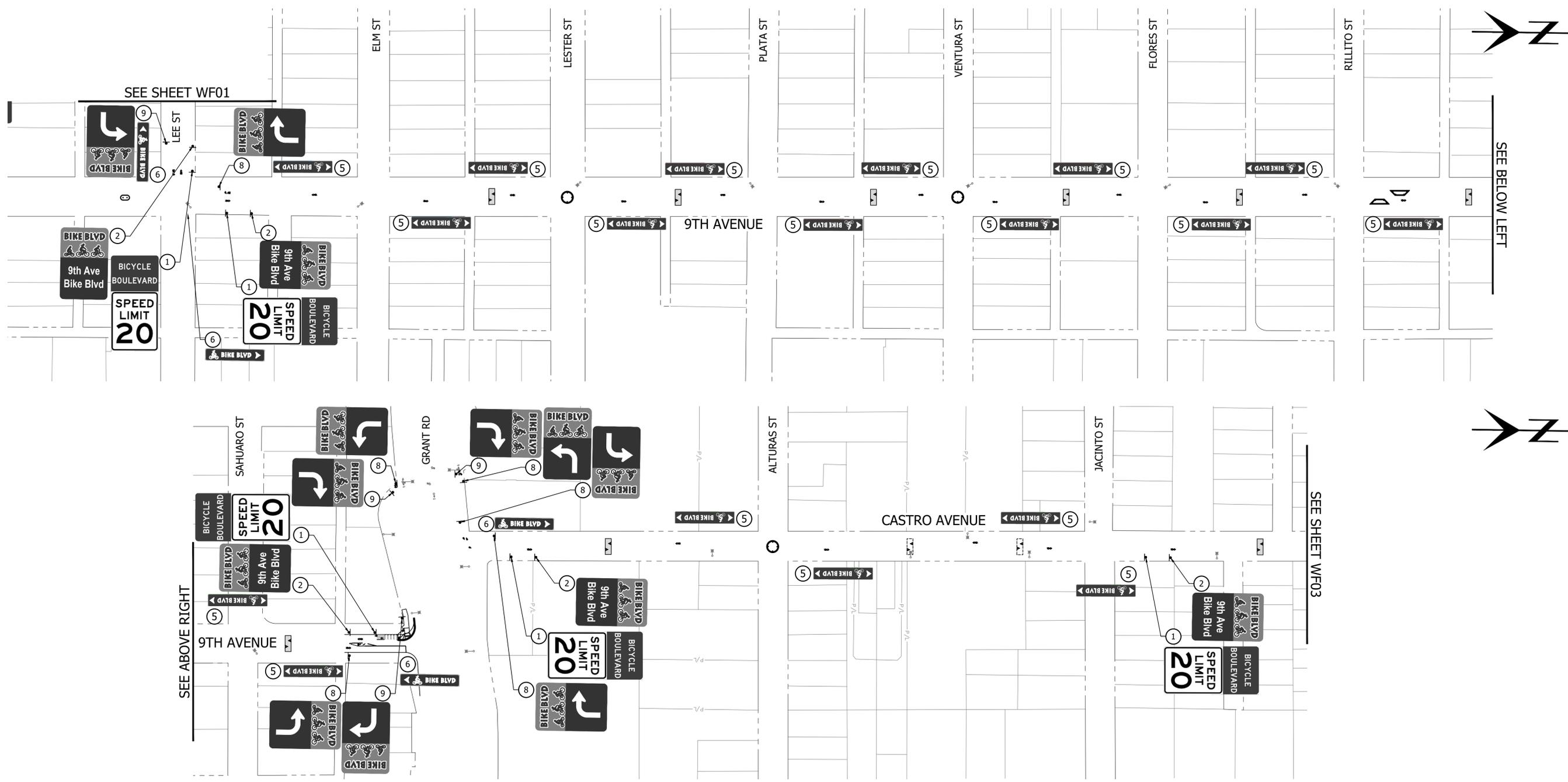
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9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
BIKE BLVD WAYFINDING SIGN SHEET

NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.

APPROVALS	SIGNATORY	DATE	APPROVED	NO.
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TRANSPORTATION DIRECTOR				
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PLAN NO. U-2022-006				



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Notes

1. After locations for wayfinding signs are staked, the contractors shall obtain approval by the Engineer before installing signs. The Engineer shall check sign locations for conflicts with existing structures, utilities, signs, and right-of-way; sign spacing; and distances to and from intersections.
2. Bike Blvd signs shall be installed above existing street name signs as noted in the directions of the Bike Blvd street. See SG03 for additional information.

Wayfinding Sign Number.
 See Sheet SG03 for details and dimensions.

WF02 OF WF06

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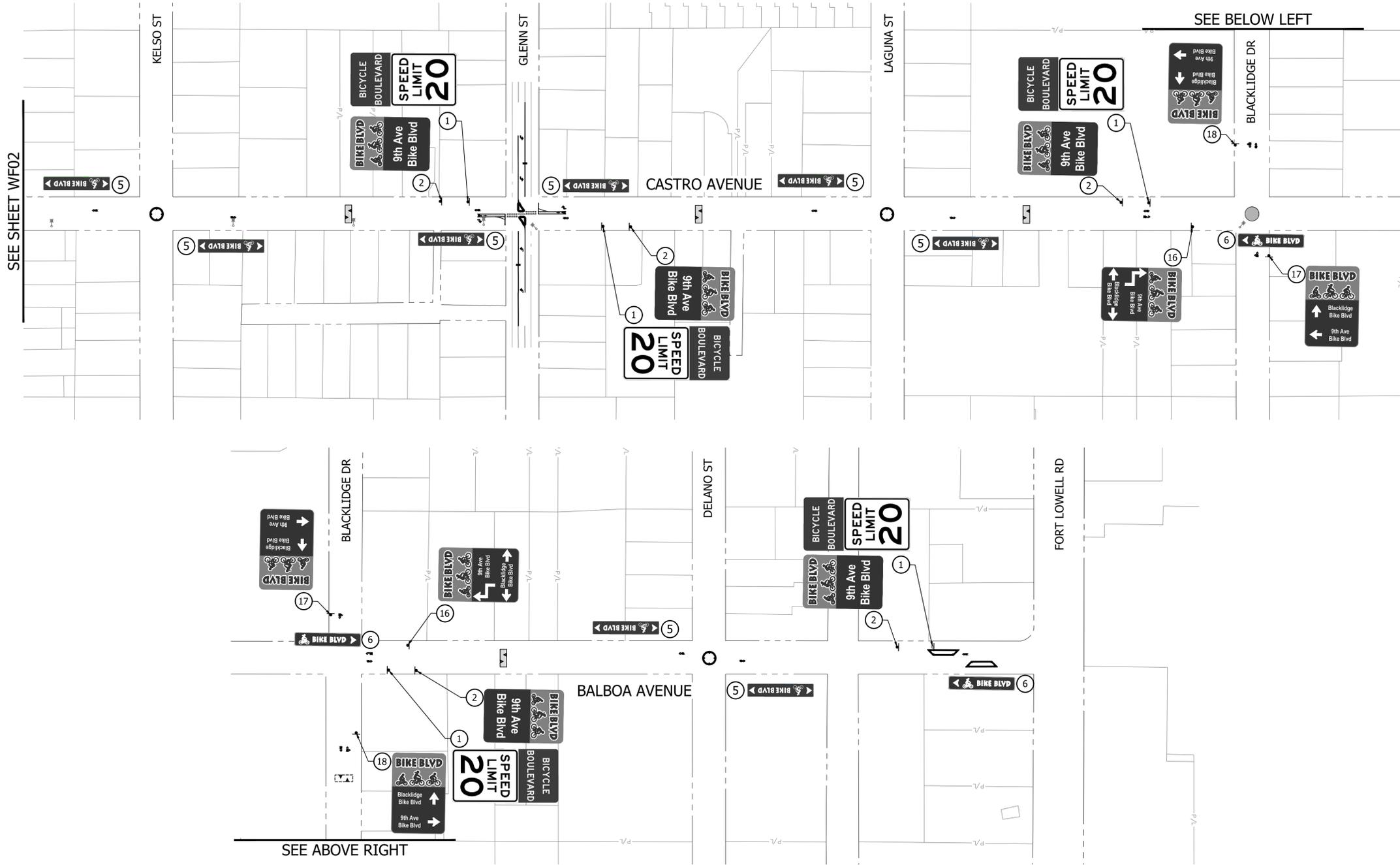
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 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
BIKE BLVD WAYFINDING SIGN SHEET

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PLAN NO. <u>U-2022-006</u>				



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- Notes**
- After locations for wayfinding signs are staked, the contractors shall obtain approval by the Engineer before installing signs. The Engineer shall check sign locations for conflicts with existing structures, utilities, signs, and right-of-way; sign spacing; and distances to and from intersections.
 - Bike Blvd signs shall be installed above existing street name signs as noted in the directions of the Bike Blvd street. See SG03 for additional information.
- ## Wayfinding Sign Number.
See Sheet SG03 for details and dimensions.

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			TRANSPORTATION DIRECTOR
REF. _____		SCALE: 1"=100'	
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NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.



SEE SHEET WF04

SEE ABOVE RIGHT



SEE BELOW LEFT

SEE SHEET WF06

Notes

1. After locations for wayfinding signs are staked, the contractors shall obtain approval by the Engineer before installing signs. The Engineer shall check sign locations for conflicts with existing structures, utilities, signs, and right-of-way; sign spacing; and distances to and from intersections.
2. Bike Blvd signs shall be installed above existing street name signs as noted in the directions of the Bike Blvd street. See SG03 for additional information.

Ⓝ Wayfinding Sign Number.
See Sheet SG03 for details and dimensions.

WF05 OF WF06

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SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
BIKE BLVD WAYFINDING SIGN SHEET

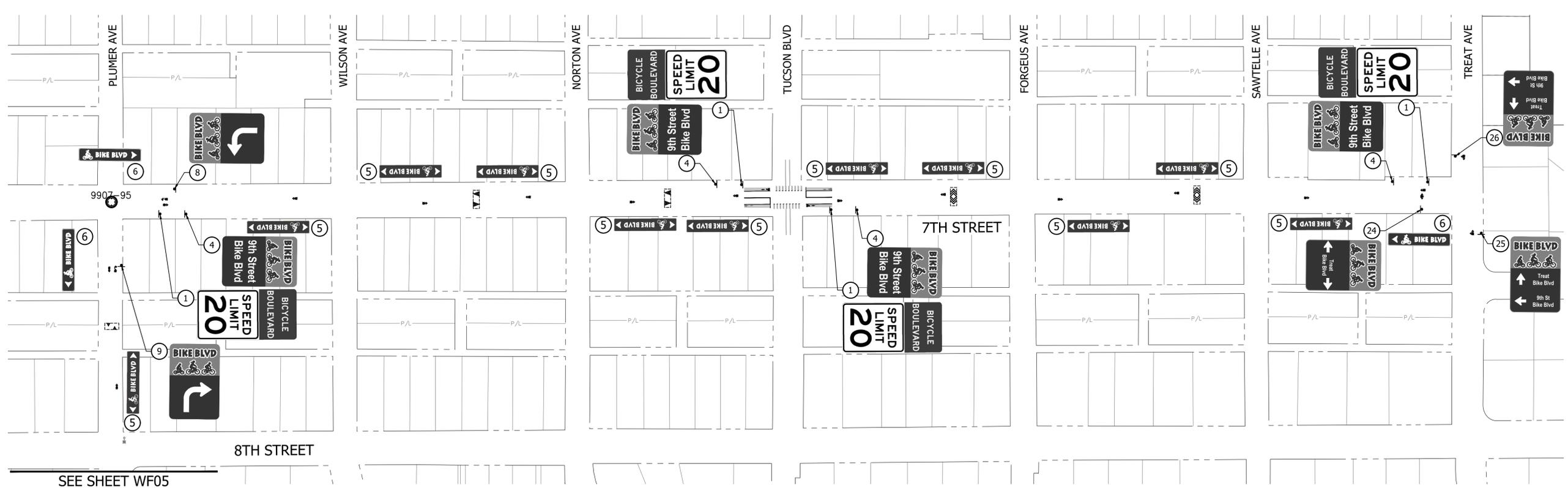
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APPROVALS	SIGNATORY	DATE

APPROVED _____ 20__ 24
OF
59
TRANSPORTATION DIRECTOR

REF. _____ SCALE: 1"=100'
PLAN NO. U-2022-006





SEE SHEET WF05

Notes

1. After locations for wayfinding signs are staked, the contractors shall obtain approval by the Engineer before installing signs. The Engineer shall check sign locations for conflicts with existing structures, utilities, signs, and right-of-way; sign spacing; and distances to and from intersections.
2. Bike Blvd signs shall be installed above existing street name signs as noted in the directions of the Bike Blvd street. See SG03 for additional information.

Ⓝ Wayfinding Sign Number.
See Sheet SG03 for details and dimensions.

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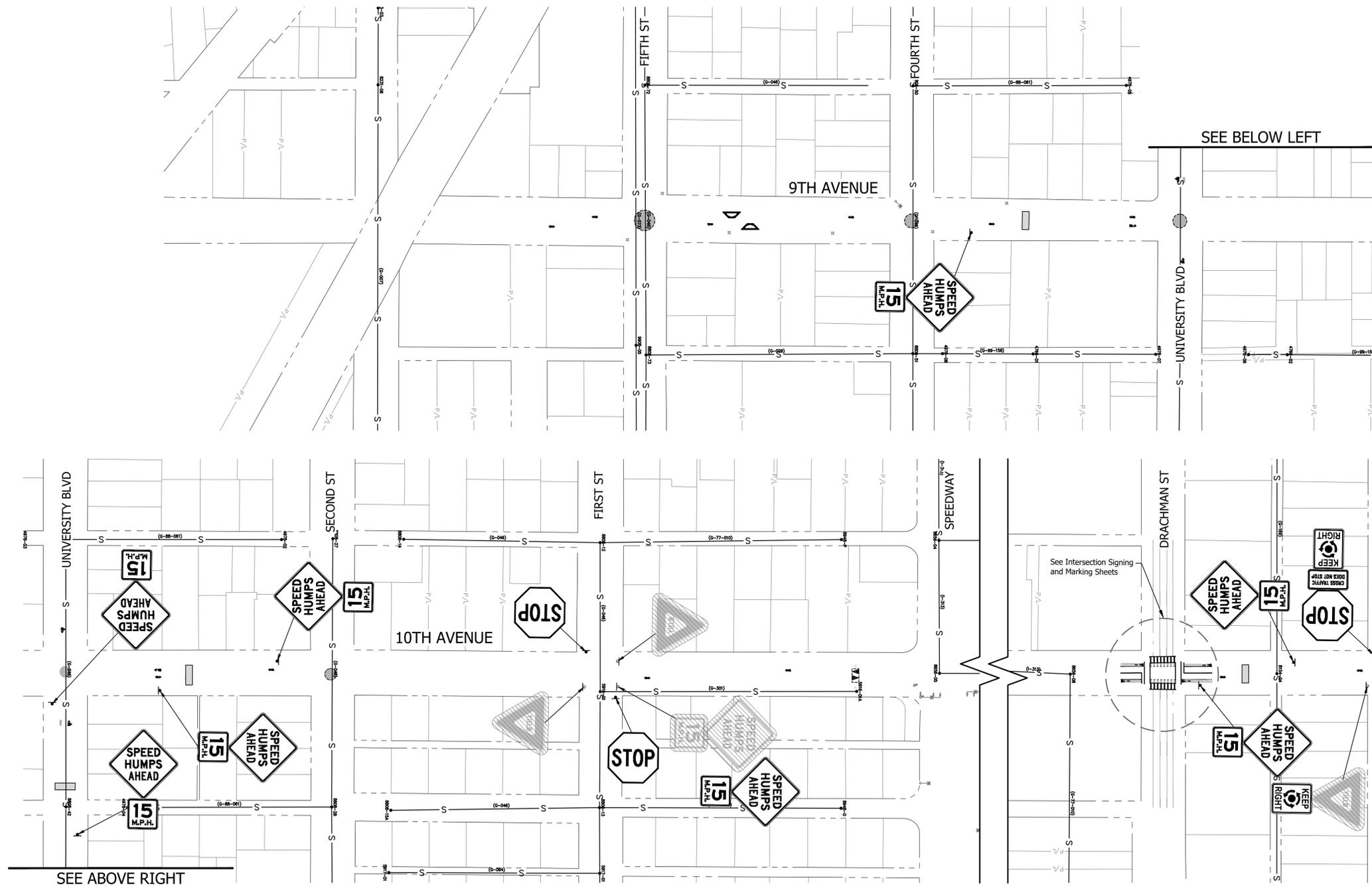
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
BIKE BLVD WAYFINDING SIGN SHEET

NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.

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TRANSPORTATION DIRECTOR				
REF. _____ SCALE: 1"=100'				
DRWN. BY <u>BDH</u> 20 <u>22</u> DSGN. BY <u>BDH</u> 20 <u>22</u> CHKD. BY <u>FLG</u> 20 <u>22</u> PLAN NO. <u>U-2022-006</u>				



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SEE ABOVE RIGHT

SEE BELOW LEFT

SEE SHEET SS02

Notes

1. All existing signs shall be protected in place unless indicated otherwise.
2. See Sign Summary Tables for detailed information.

-  New sign panel
-  Existing sign panel to remain
-  Existing sign panel to be removed
-  Existing sign post
-  New sign post

SS01 of SS06

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 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
BIKE BLVD SIGNING AND MARKING SHEETS

NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.

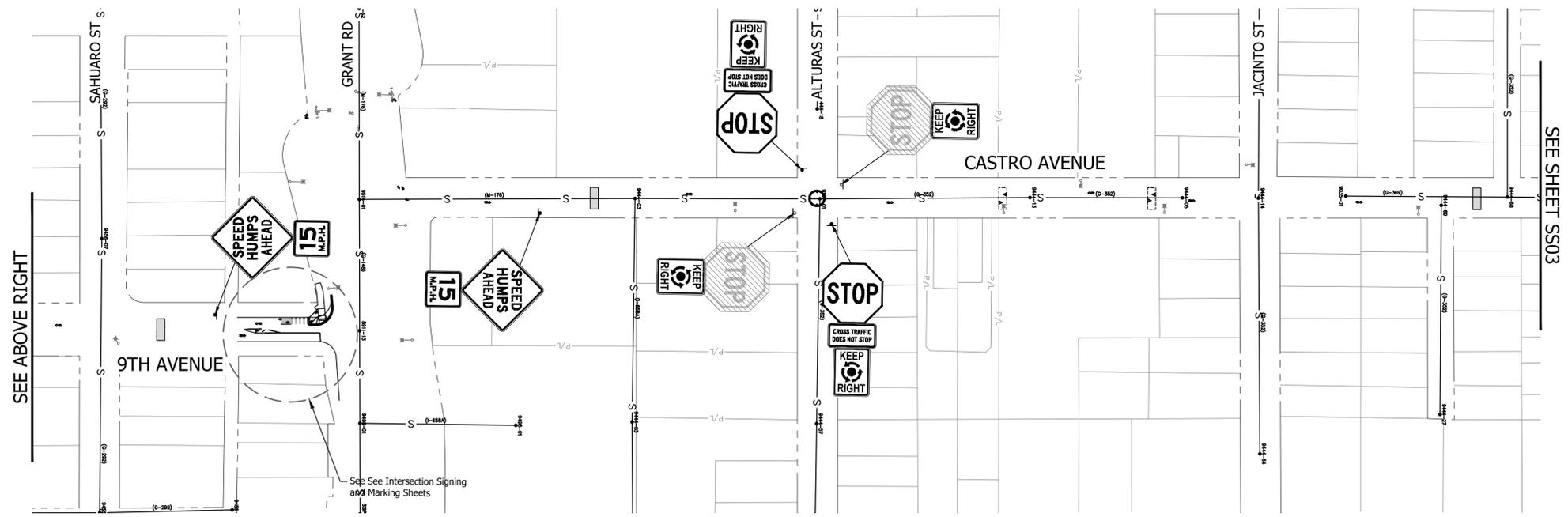
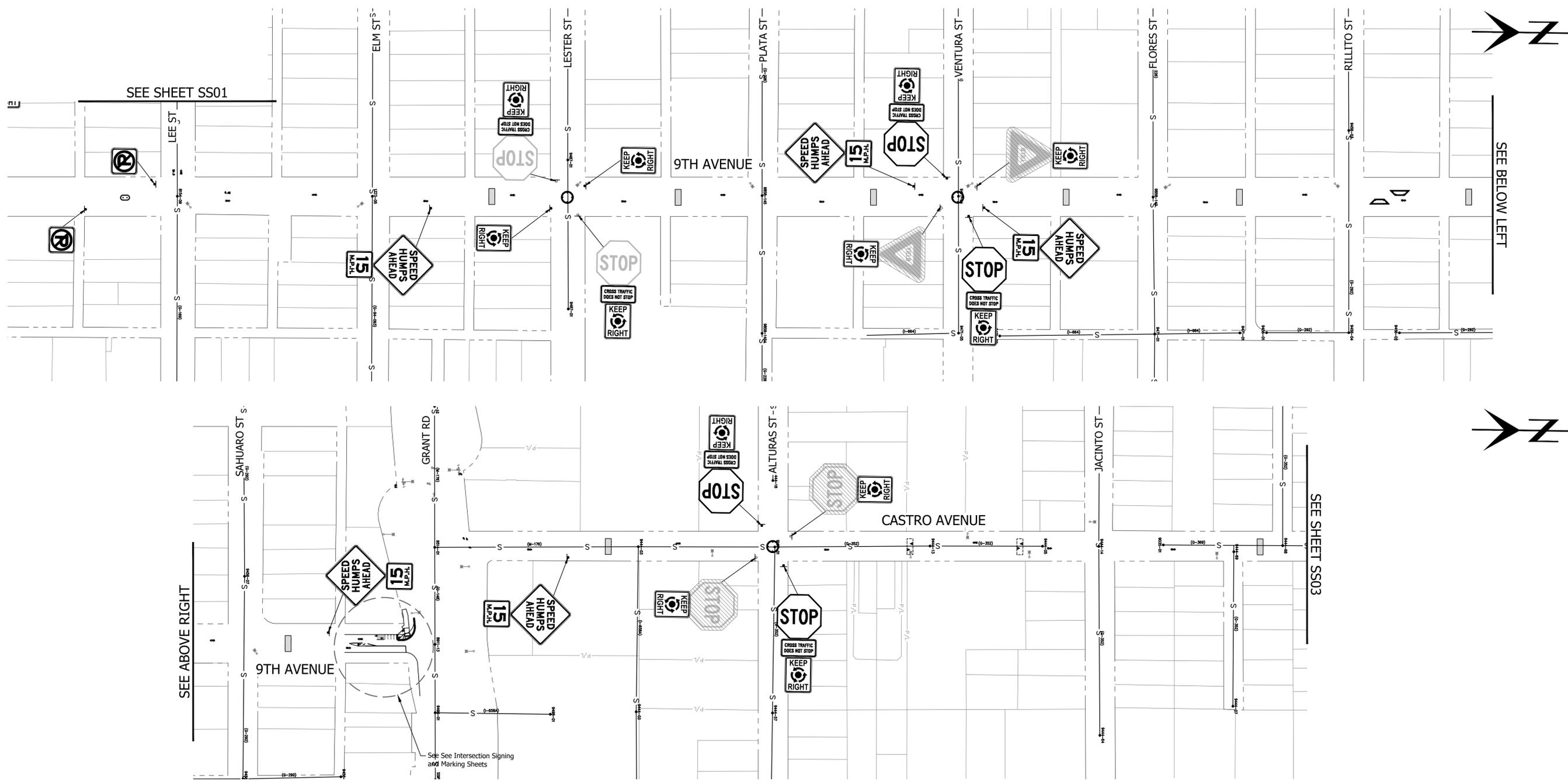
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				TRANSPORTATION DIRECTOR
				REF. SCALE: 1"=100'
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Notes

1. All existing signs shall be protected in place unless indicated otherwise.
2. See Sign Summary Tables for detailed information.

-  New sign panel
-  Existing sign panel to remain
-  Existing sign panel to be removed
-  Existing sign post
-  New sign post

SS02 of SS06

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 TUCSON, AZ 85701
 P 520.544.4067 F 520.544.9616



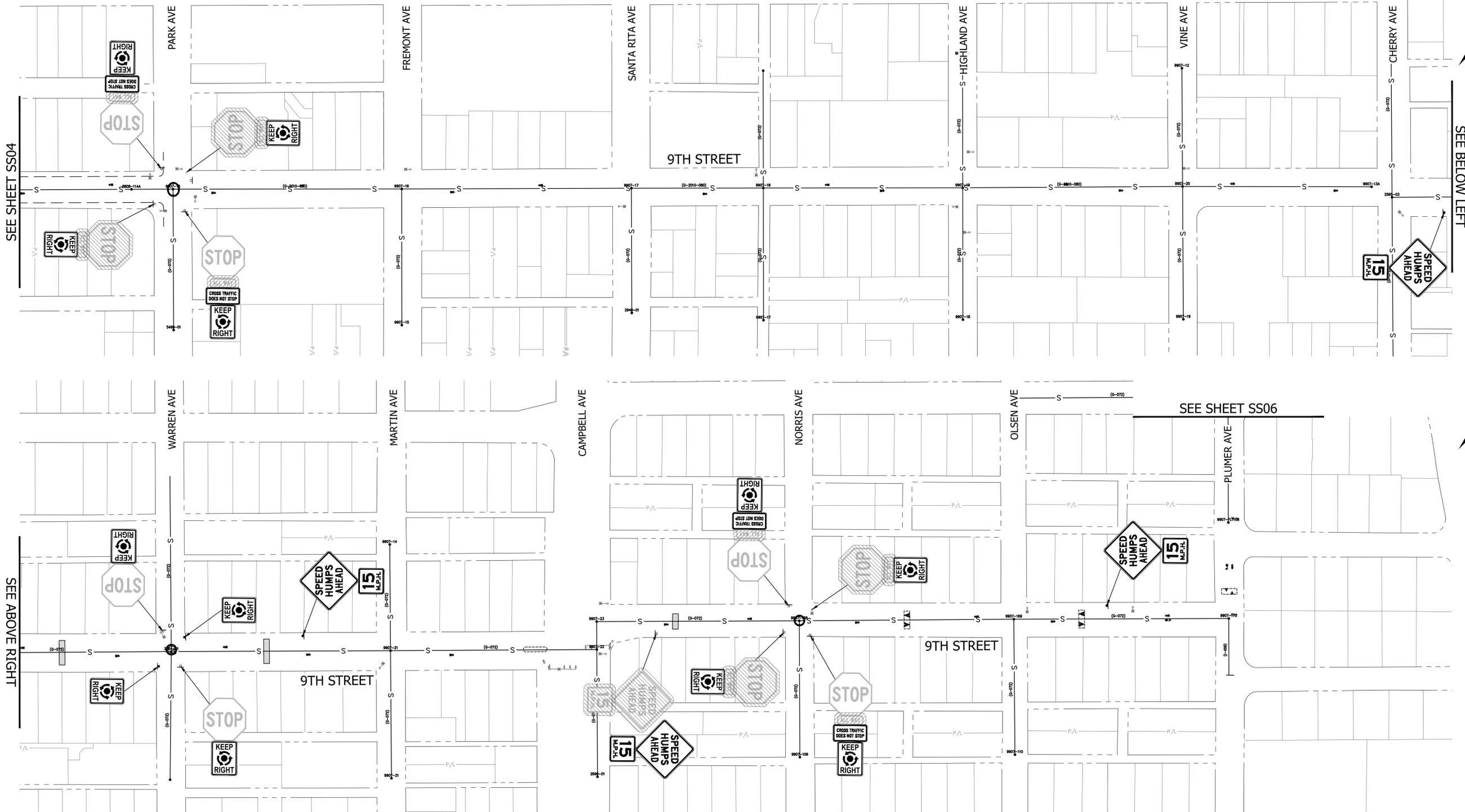
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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION			
9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS			
SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE			
BIKE BLVD SIGNING AND MARKING SHEETS			
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			TRANSPORTATION DIRECTOR
REF. _____		SCALE: 1"=100'	
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DSGN. BY <u>BDH</u> 20__			
CHKD. BY <u>FLG</u> 20__			

NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.



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Notes

1. All existing signs shall be protected in place unless indicated otherwise.
2. See Sign Summary Tables for detailed information.

-  New sign panel
-  Existing sign panel to remain
-  Existing sign panel to be removed
-  Existing sign post
-  New sign post

SS05 of SS06

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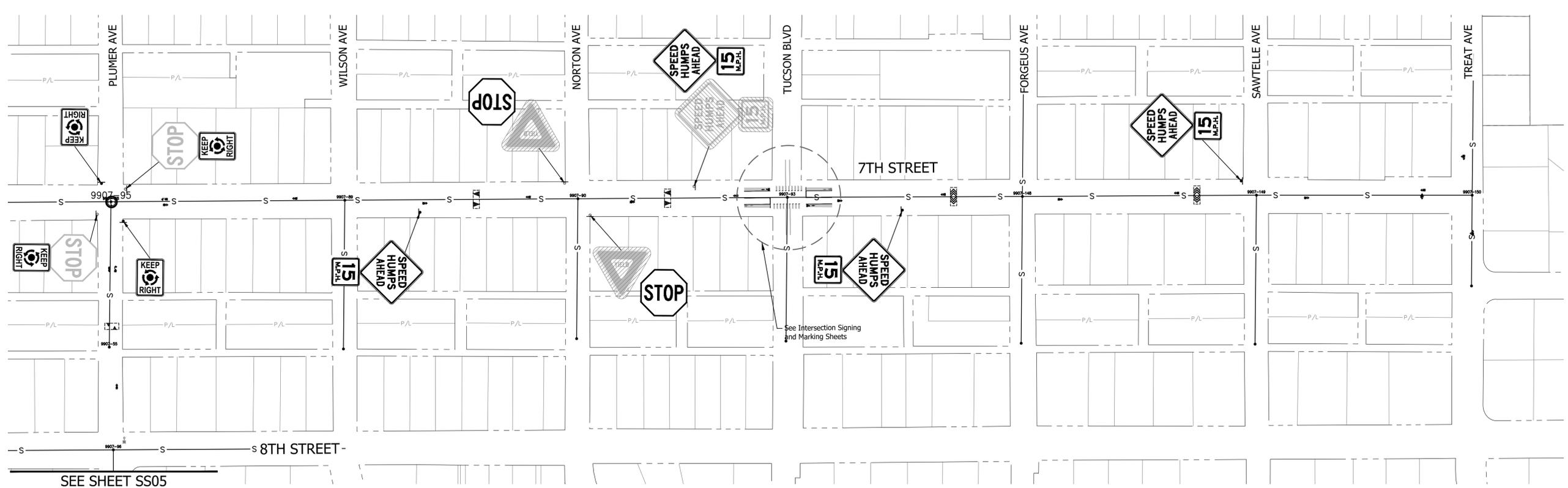
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 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
BIKE BLVD SIGNING AND MARKING SHEETS

NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.

APPROVALS	SIGNATORY	DATE	APPROVED	30 OF 59
TRANSPORTATION DIRECTOR				
REF. _____ SCALE: 1"=100'				
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SEE SHEET SS05

Notes

1. All existing signs shall be protected in place unless indicated otherwise.
2. See Sign Summary Tables for detailed information.

-  New sign panel
-  Existing sign panel to remain
-  Existing sign panel to be removed
-  Existing sign post
-  New sign post

SS06 OF SS06

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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
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 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
BIKE BLVD SIGNING AND MARKING SHEETS

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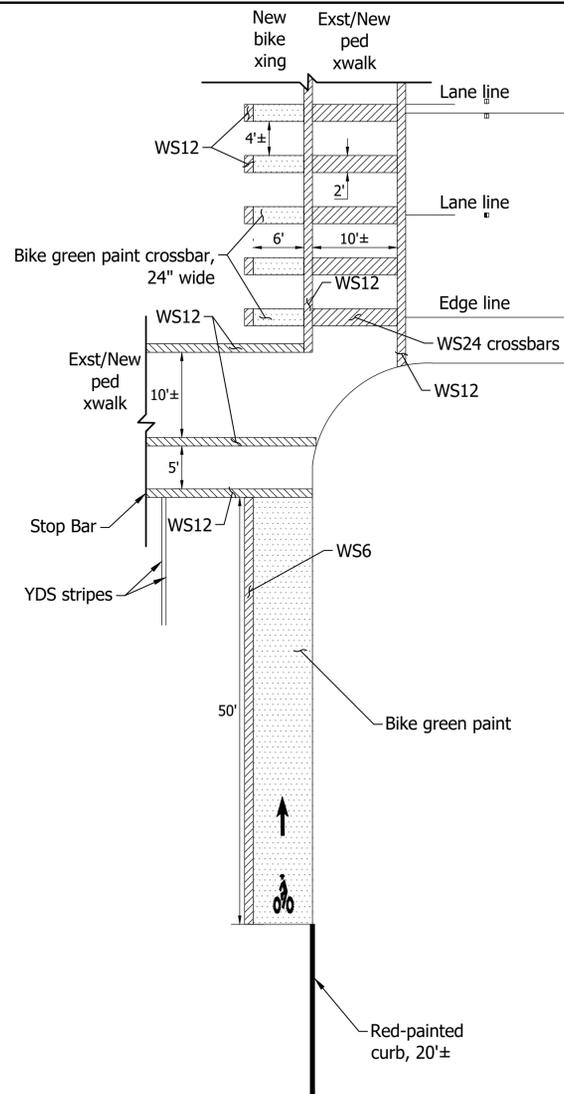
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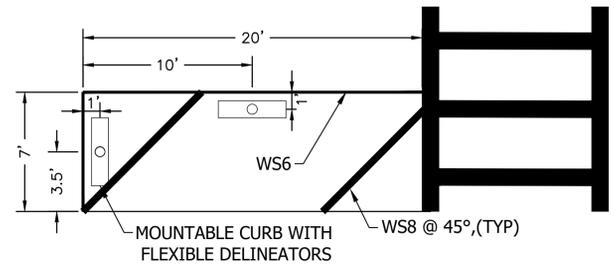
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TRANSPORTATION DIRECTOR	OF
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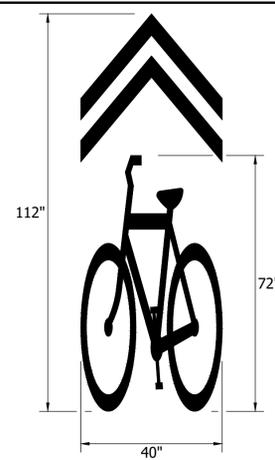
UN SIGNALIZED PEDESTRIAN CROSSWALK / BIKE CROSSING PAVEMENT MARKING TYPICAL LAYOUT DETAIL



TYPICAL DAYLIGHT AREA AT CROSSWALK



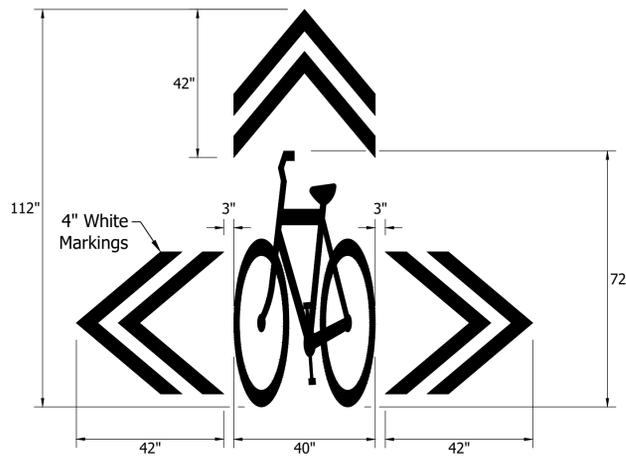
BIKE WAYFINDING LEGEND DETAIL



PC/COT Signing and Pavement Marking Manual, Sheet 3.2.4

The sharrow shall be composed of permanent preformed thermoplastic that has been approved by the City of Tucson.

STANDARD SHARROW DETAIL



PC/COT Signing and Pavement Marking Manual, Sheet 3.2.4

The sharrow shall be composed of permanent preformed thermoplastic that has been approved by the City of Tucson.

Sharrow detail shows left, straight and right indication. Refer to WF01-WF06 for each locations direction indications.

DIRECTIONAL SHARROW DETAIL

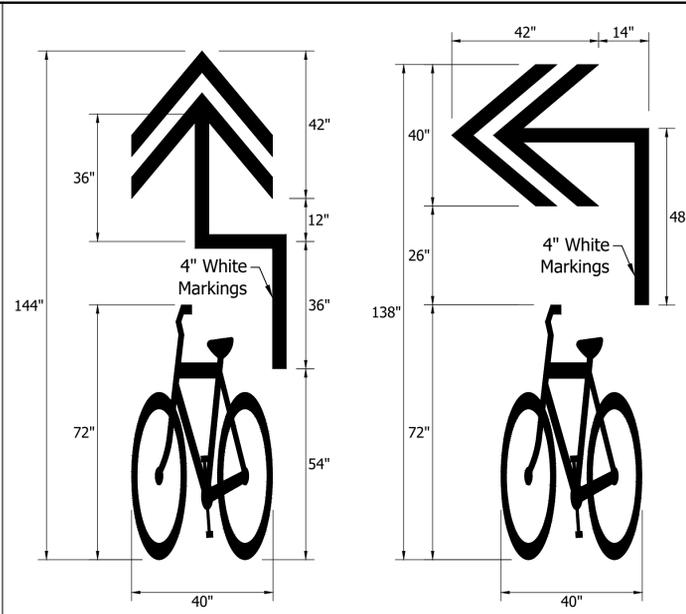
Stations for shared lane markings (sharrows) in the table on this page are approximate. Final placement shall be approved by the Engineer.

Sharrows at intersections that will have bike TOUCAN signals shall be centered on the vehicle departure lanes, beyond new double yellow striping and between that striping and face of curb.

Sharrows at other locations are shown on the wayfinding sign pages and shall be placed immediately after locations where vehicle and bicycle routes have merged, where the bike boulevard centerline has changed direction, where traffic is expected to be moving slowly, or where spacing between sharrows would be excessive.

Unless shown otherwise, sharrows shall be installed so that the center of the symbol is 20 ft past the previous curb return or speed hump. The center of the symbol shall be 12 ft from the edge of pavement or face of curb where parking is allowed, or 4 ft from the edge of pavement or face of curb where parking is not allowed.

SHARROW PLACEMENT

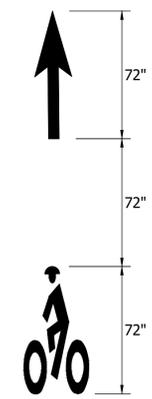


PC/COT Signing and Pavement Marking Manual, Sheet 3.2.4

The sharrow shall be composed of permanent preformed thermoplastic that has been approved by the City of Tucson.

Jog Sharrow detail shows Jog Left Sharrow, the same principals apply to Jog Right Sharrows. Turn Sharrow detail shows Left Turn Sharrow, the same principals apply to Right Turn Sharrow.

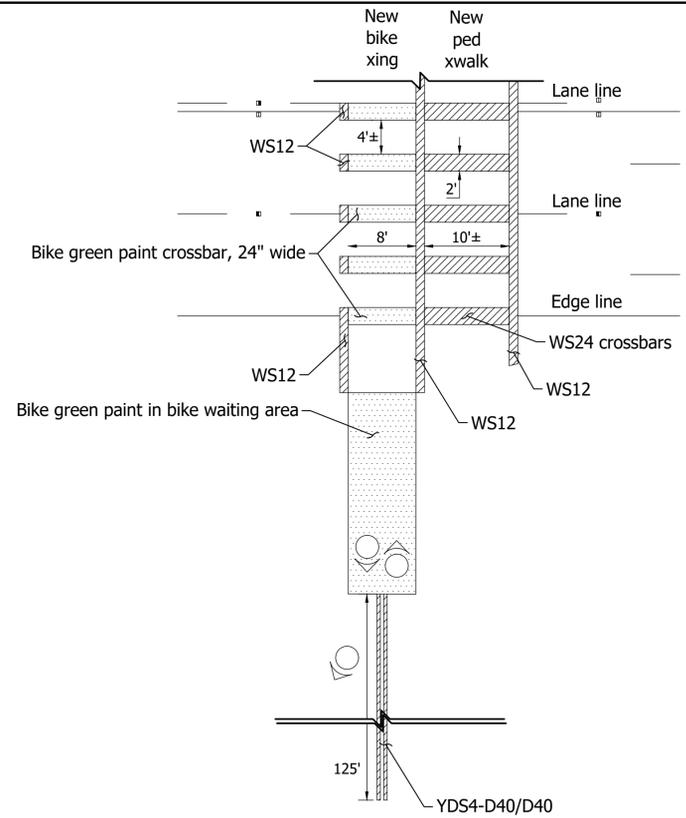
JOG/TURN SHARROW DETAIL



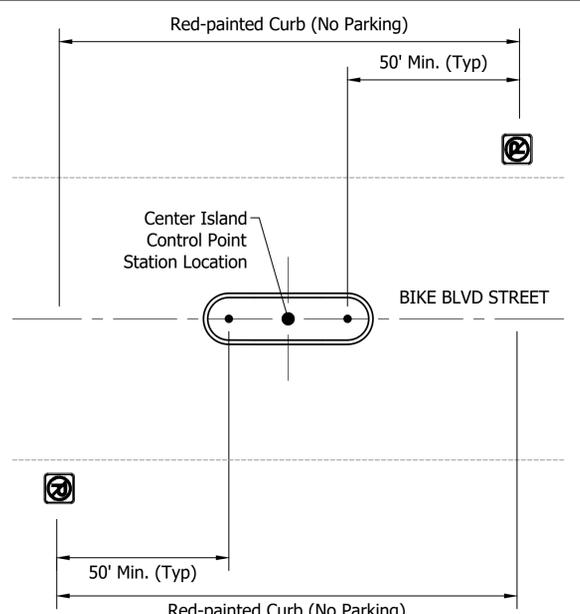
PC/COT Signing and Pavement Marking Manual, Sheet 3.2.4

The bike symbol shall be composed of permanent preformed thermoplastic that has been approved by the City of Tucson.

BIKE SYMBOL AND ARROW DETAIL



TOUCAN PEDESTRIAN CROSSWALK / BIKE CROSSING PAVEMENT MARKING TYPICAL LAYOUT DETAIL



TYPICAL CENTER ISLAND SIGNING

PAVEMENT MARKING & SIGNING GENERAL NOTES & DETAILS
Sheet 2 of 4

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
INTERSECTION SIGNING AND MARKING SHEETS

KITTELSON & ASSOCIATES
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TUCSON, AZ 85701
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CITY OF TUCSON

NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.

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OR RECORDING

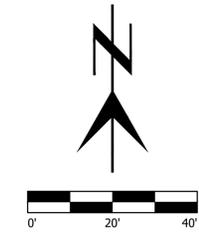
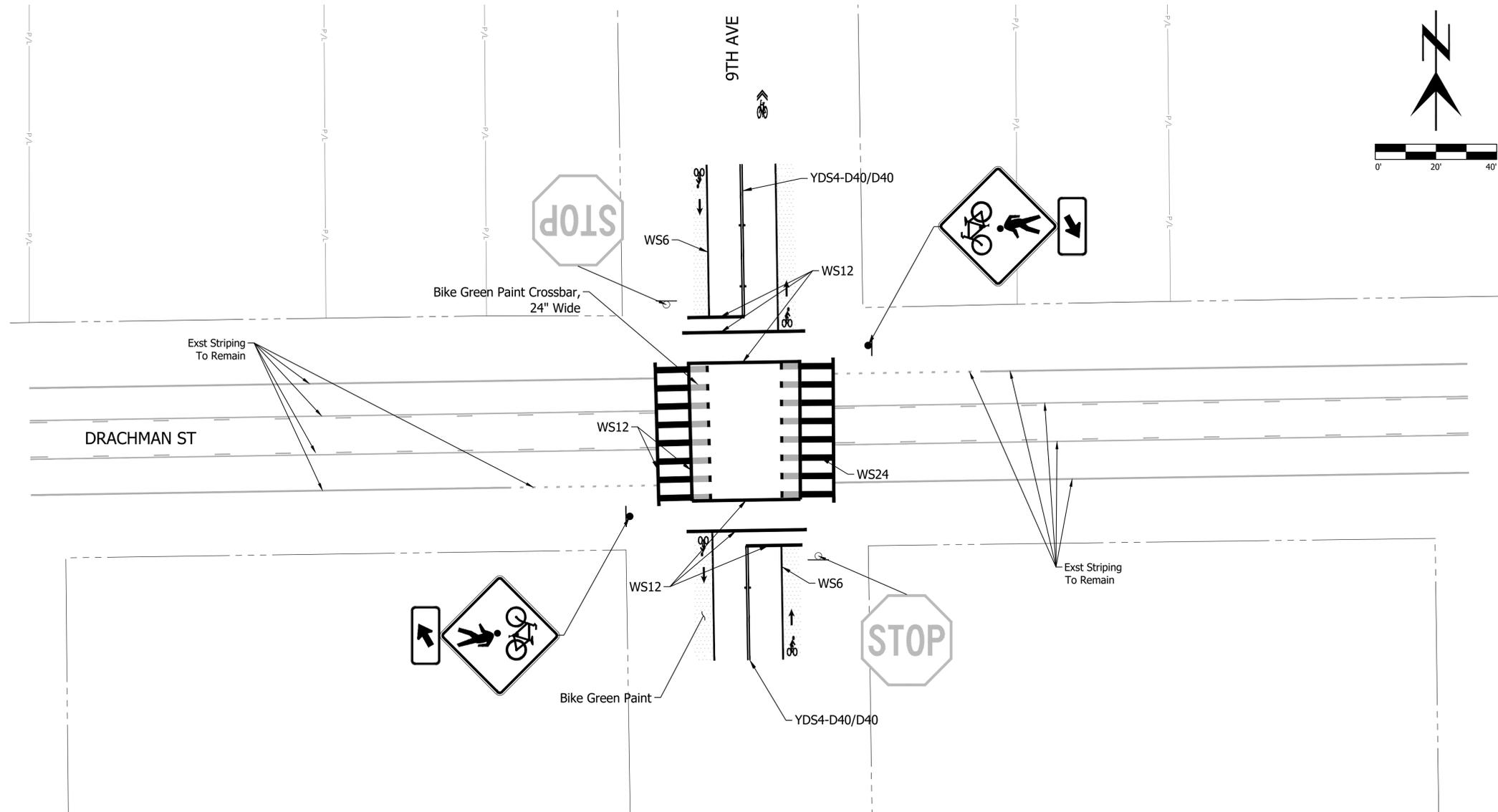
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APPROVED _____ 20__	33
TRANSPORTATION DIRECTOR	OF
	59
REF. _____ SCALE: _____	
DRWN. BY <u>BDH</u> 20 <u>22</u> DSGN. BY <u>BDH</u> 20 <u>22</u> CHKD. BY <u>FLG</u> 20 <u>22</u>	PLAN NO. <u>U-2022-006</u>

Central Arizona 811 at least two full working days before any single excavation
ARIZONA 811
Call 811 or visit Arizona811.com

SG02 OF SG11

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PAVEMENT MARKING AND SIGNING NOTES

1. Contractor shall remove any thermoplastic markings from sewer manhole covers. The cost will be incidental to the project.
2. For additional pavement marking and signing information not shown on this sheet see PCDOT/COT Signing and Marking Standards.
3. For information of components and dimensions of crosswalks and bike crossings, see pavement Marking details on Sheet SG02.

SG05 of SG11

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9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
INTERSECTION SIGNING AND MARKING SHEETS

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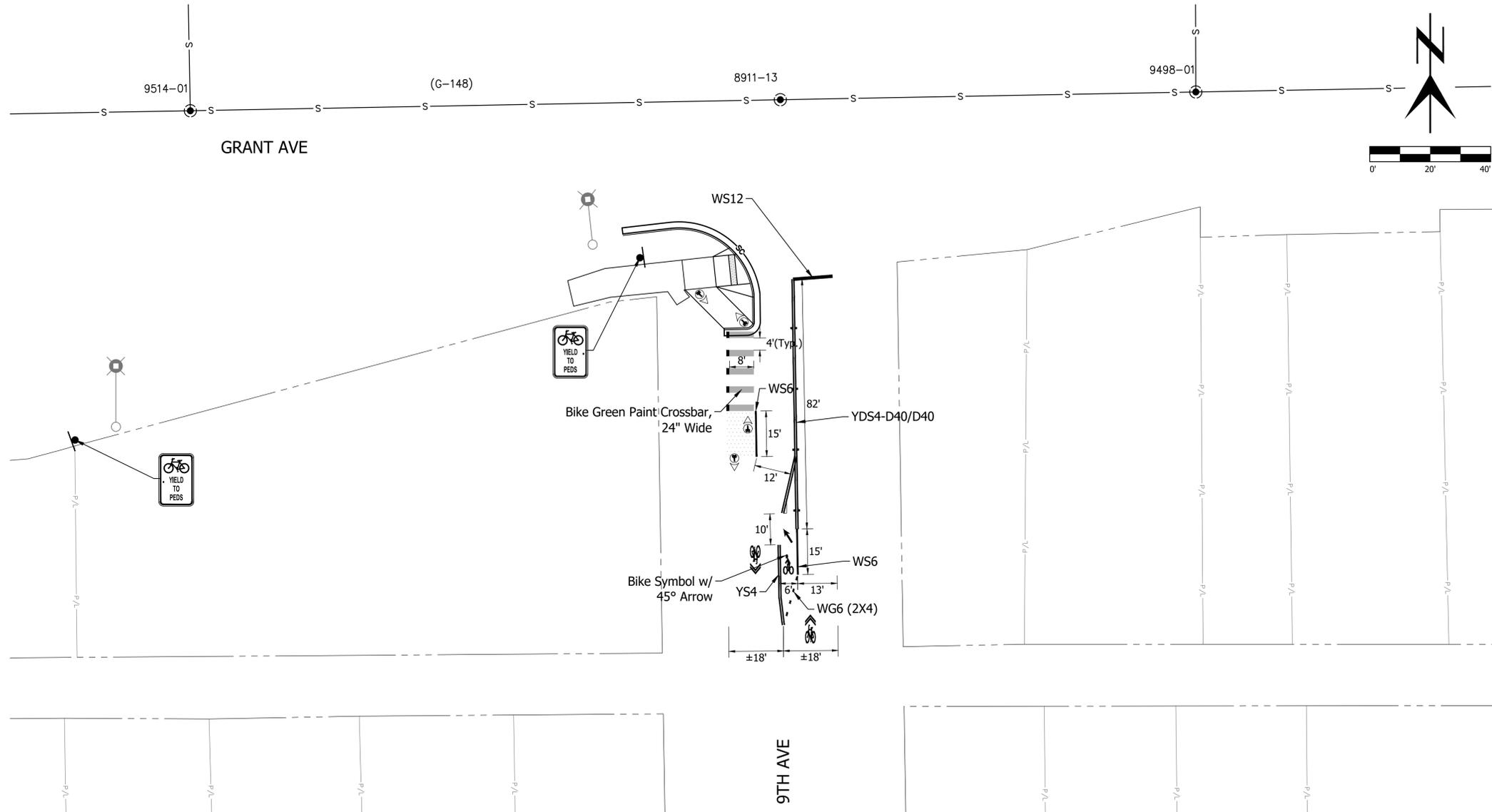
APPROVALS	SIGNATORY	DATE	APPROVED	DATE

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36 OF 59



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PAVEMENT MARKING AND SIGNING NOTES

- Contractor shall remove any thermoplastic markings from sewer manhole covers. The cost will be incidental to the project.
- For additional pavement marking and signing information not shown on this sheet see PCDOT/COT Signing and Marking Standards.

SG06 OF SG11

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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
INTERSECTION SIGNING AND MARKING SHEETS

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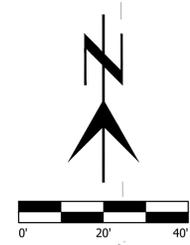
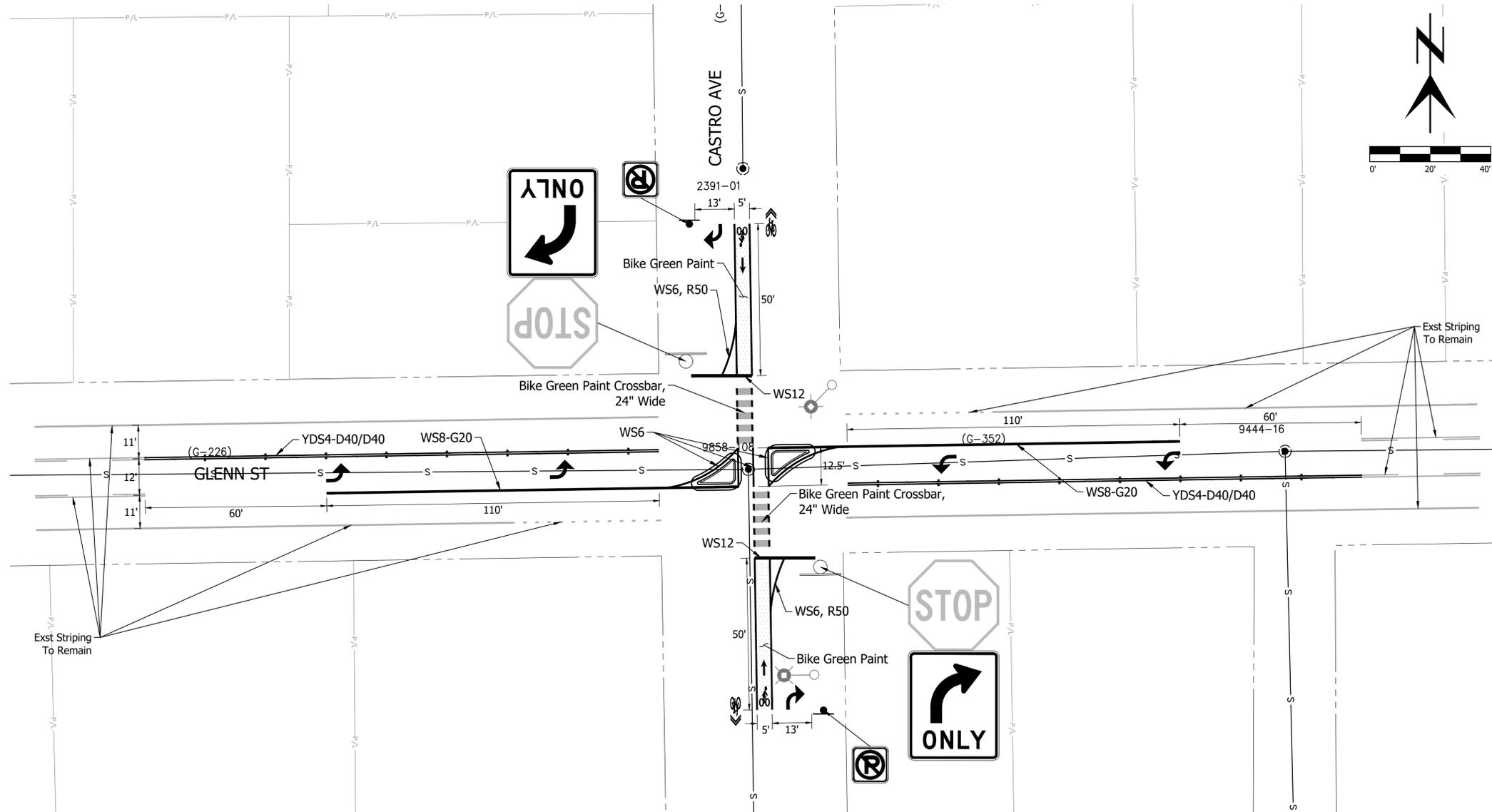
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PAVEMENT MARKING AND SIGNING NOTES

1. Contractor shall remove any thermoplastic markings from sewer manhole covers. The cost will be incidental to the project.
2. For additional pavement marking and signing information not shown on this sheet see PCDOT/COT Signing and Marking Standards.
3. For information of components and dimensions of crosswalks and bike crossings, see pavement Marking details on Sheet SG02.

SG07 OF SG11

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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
INTERSECTION SIGNING AND MARKING SHEETS

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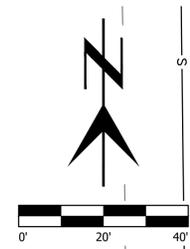
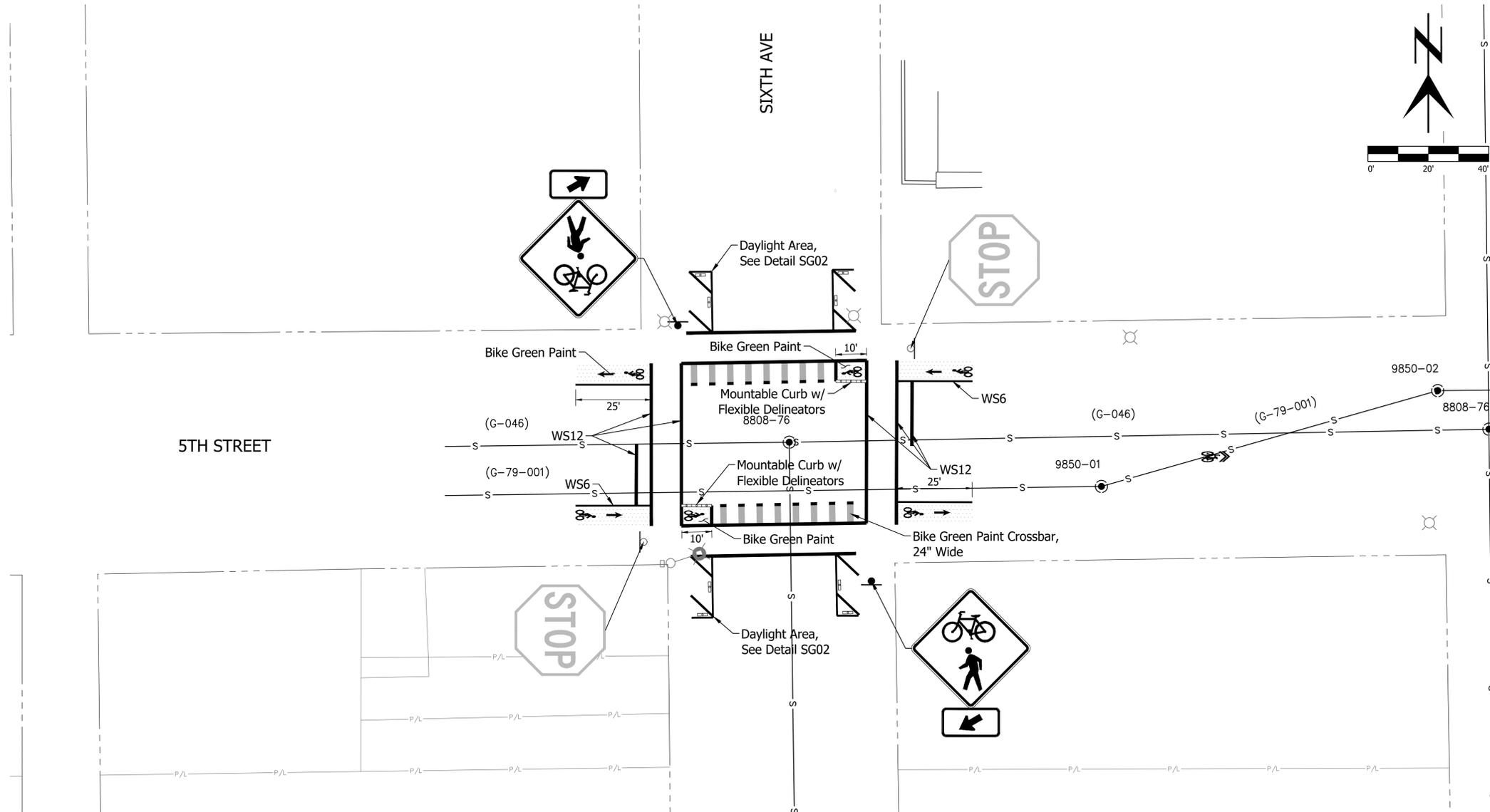
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PAVEMENT MARKING AND SIGNING NOTES

1. Contractor shall remove any thermoplastic markings from sewer manhole covers. The cost will be incidental to the project.
2. For additional pavement marking and signing information not shown on this sheet see PCDOT/COT Signing and Marking Standards.
3. For information of components and dimensions of crosswalks and bike crossings, see pavement Marking details on Sheet SG02.

SG08 OF SG11

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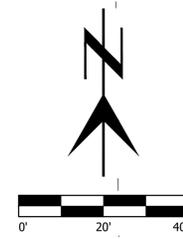
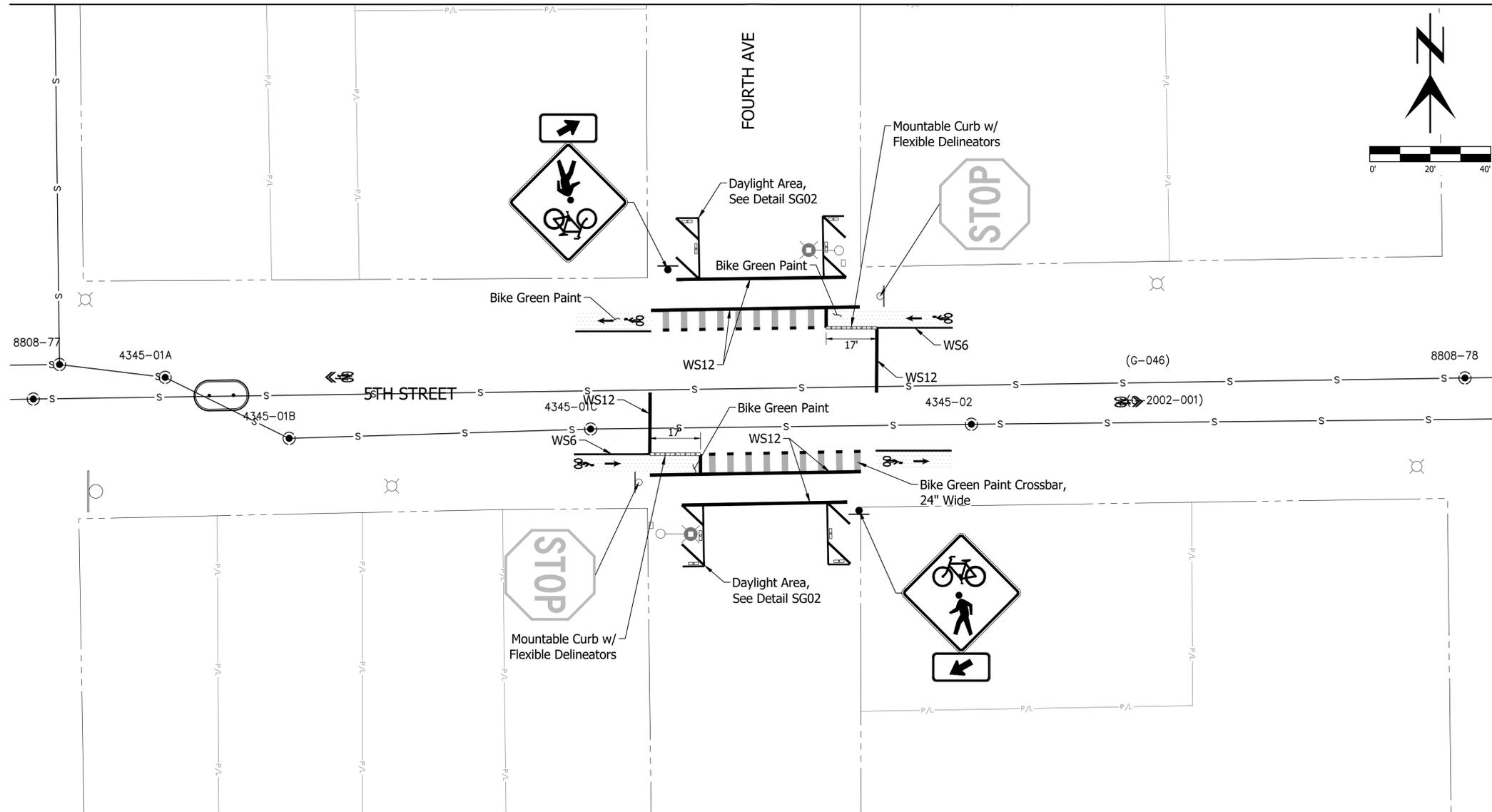
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PAVEMENT MARKING AND SIGNING NOTES

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2. For additional pavement marking and signing information not shown on this sheet see PCDOT/COT Signing and Marking Standards.
3. For information of components and dimensions of crosswalks and bike crossings, see pavement Marking details on Sheet SG02.

SG09 OF SG11

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 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
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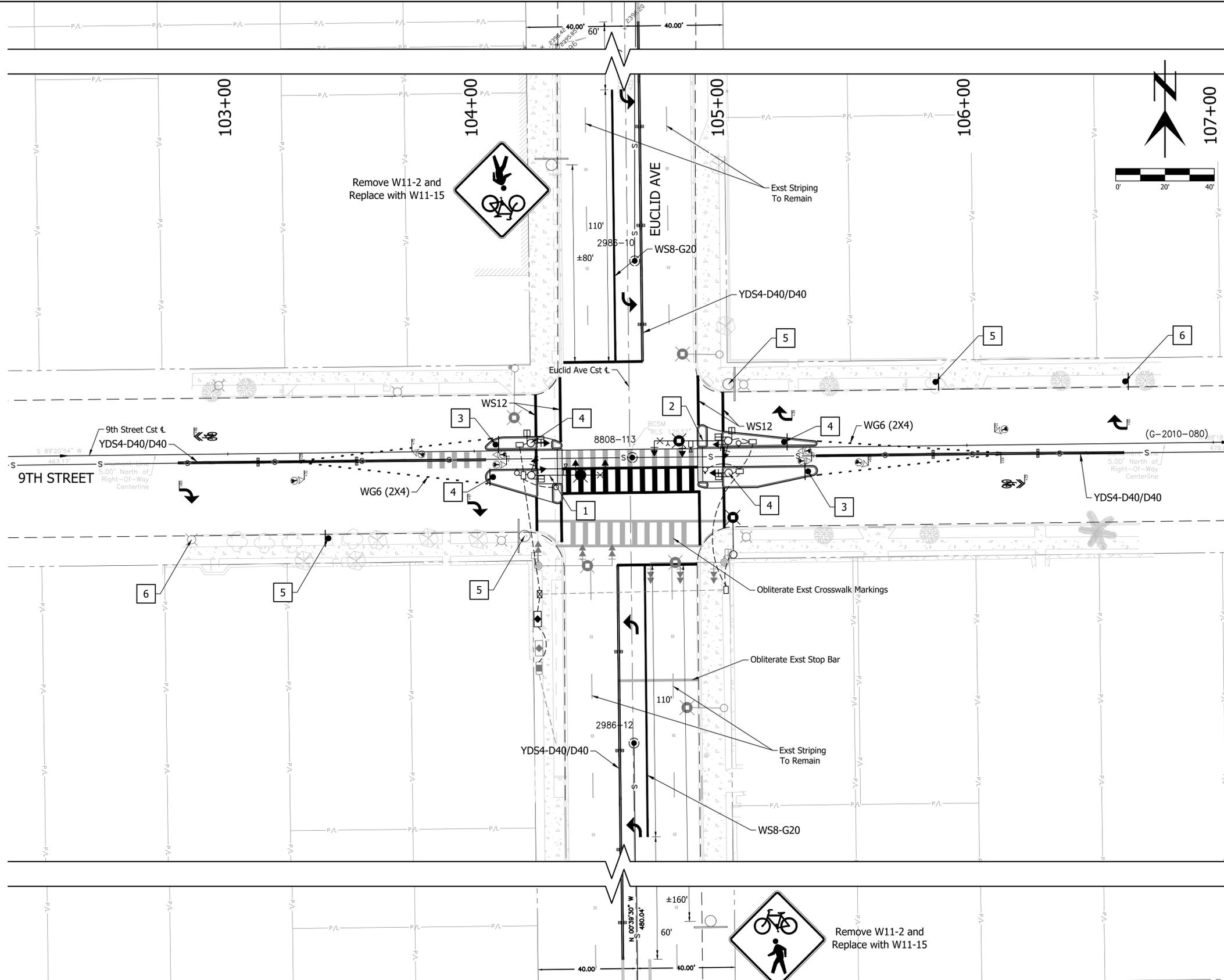
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CONSTRUCTION NOTES

1.  Metro-Style Sign 120"x18" Detail on Sheet TS07
Double Sided
2.  Metro-Style Sign 96"x18" Detail on Sheet TS07
Double Sided
3.  Special Sign 12"x18"
 R9-3cP 12"x12"
4.  R4-7 24"x30"
5.  R3-5R 30"x36"
6.  R4-4 36"x30"
 R8-3 24"x24"

PAVEMENT MARKING AND SIGNING NOTES

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3. For information of components and dimensions of crosswalks and bike crossings, see pavement Marking details on Sheet SG02.

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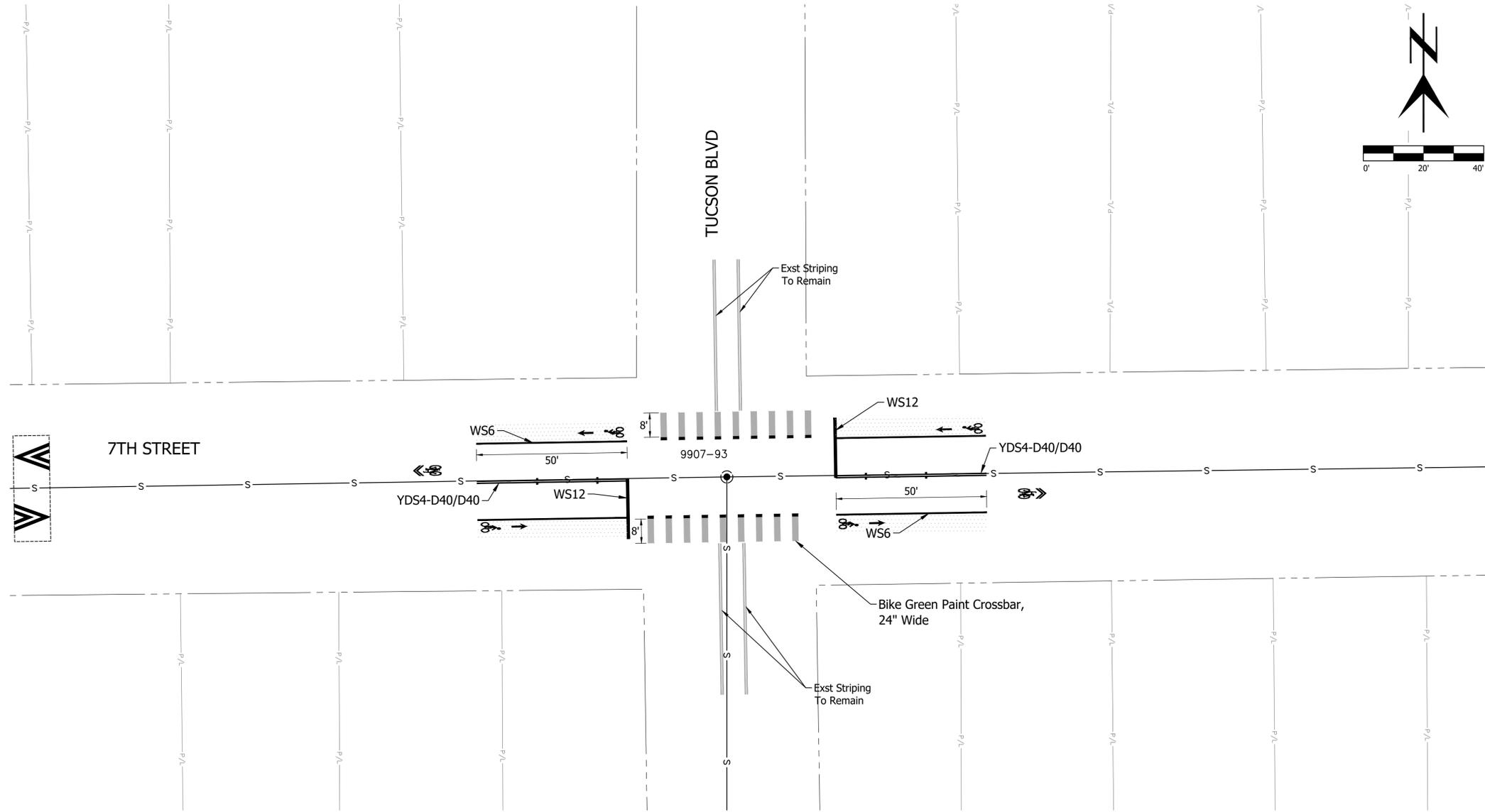
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PLAN NO. U-2022-006				

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SG10 OF SG11

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PAVEMENT MARKING AND SIGNING NOTES

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3. For information of components and dimensions of crosswalks and bike crossings, see pavement Marking details on Sheet SG02.

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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
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REF. _____ SCALE: 1"=20'
 TRANSPORTATION DIRECTOR _____
 PLAN NO. U-2022-006



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 59
 TRANSPORTATION DIRECTOR

GENERAL TRAFFIC SIGNAL AND LIGHTING NOTES

- All equipment/materials and construction shall meet or exceed the current Pima Association of Governments (PAG) "Standard Specifications for Public Improvements" and "Standard Details for Public Improvements", the current MUTCD with the Arizona Supplement, the Special Provisions, and the plans.
- Station and offsets are to the 9th Street construction centerline. The exact location of each new pole foundation, pull box, controller cabinet foundation, and electric service pedestal foundation shall be approved by the Engineer prior to excavation and installation.
- All pole foundations shall be installed at finished grade. If the slope of shoulder drops off from the finished grade, the contractor shall grade around the pole foundation. Refer to the PAG Standard Details for Public Improvements.
- Only new conduit and cable shall be installed, unless otherwise specified.
- All conduit shall be installed a minimum of 30 inches below finished grade in protected areas (behind curb) and a minimum of 36 inches below finished grade in unprotected areas, under roadways or under driveways.
- Any conduit installed shallower than the minimum below finished grade shall be encased in concrete per Standard Specification 732-3.01 (G).
- All new and existing conduits shall be cleaned by compressed air and a properly sized conduit piston or mandrel prior to cable installation.
- Pull boxes shall not be installed within concrete curb access ramps. In addition, any pull boxes installed behind curbs shall be installed between the curb and the proposed/future sidewalk or beyond the proposed/future sidewalk. Any pull boxes installed along an uncurbed roadway shall be installed adjacent to, but not within, the shoulder.
- A 3/4-inch x 10-ft ground rod shall be installed in the No. 7 pull box (w/extension) adjacent to the controller cabinet. Two ground rod clamps shall be furnished for grounding the wire.
- High voltage cables should be separated from low voltage cables as much as possible.
- A (#14) AWG 16 conductor IMSA cable shall be installed from each traffic signal terminal strip (unspliced) to the traffic signal cabinet.
- Conductors shall be installed from each new luminaire to the concrete pull box adjacent to the pole foundation, leaving three feet of slack for each conductor (measured from the top of the pull box) in the pull box. A 5-amp in-line fuse shall be installed for each luminaire in the associated pull box.
- Poles with pedestrian signals and APS pushbutton stations shall use one 7-conductor IMSA cable for both the APS pushbutton station and the pedestrian signal, unless otherwise noted. The outer cable jacket shall not be removed at the hand hole height. Two conductors shall be routed to the push button station and the remaining conductors shall be routed to the pedestrian signal. The APS pushbutton station should be mounted on the same side of the pole as the pedestrian signal that it serves.
- Poles with BIKES WAIT/BIKES OK signs and pushbuttons for cyclists shall use one 7-conductor IMSA cable for both the pushbutton and the sign, unless otherwise noted. The outer cable jacket shall not be removed at the hand hole height. Two conductors shall be routed to the pushbutton station and the remaining conductors shall be routed to the bike sign.
- Coordinate the hookup of conductors and communication cables in the controller cabinet with the City of Tucson (COT) Electric Shop. Call the COT Electric Shop at (520) 791-3154 a minimum of five (5) days prior to work.
- Contact the Tucson Electric Power (TEP) Public Improvement Coordinator Roman Felix at (520) 918-8359 for electric service hookup. The contractor shall be responsible for excavating and backfilling the trench, installing any necessary sleeves under sidewalk or driveways and supplying a galvanized sweep and riser for the electric service cable to be installed by TEP.
- The contractor shall take precautions not to damage water facilities, sanitary sewer pipelines, and dry utility facilities that are in the area of construction. The contractor will be responsible for any damage.
- At pole foundations close to existing water mains, sewer lines, and manholes, maintain a minimum of five (5) feet horizontal distance from outside of the foundation wall to the outside of pipe wall. PCRWRD requires the contractor to submit a Wastewater Flow Management Plan for new pole foundations that encroach the sewer impact zone. See PCRWRD SSDC 202, Section 2.2.1 for more information.
- Minimum horizontal separation between existing water mains and electrical conduit is five (5) feet from outside water line to outside of electrical conduit. Minimum vertical separation is one (1) foot from outside water line to outside electrical conduit.
- The location of all utilities shown on the plans is approximate. The contractor shall pothole existing utilities within the vicinity of pole and cabinet foundations prior to excavation. This work shall be considered incidental to the pole foundation work.
- The contractor shall contact Arizona 811 at 1-800-782-5348 a minimum of 48 hours prior to any excavation.
- The contractor shall support and protect in place all water facilities that are exposed during the installation of the traffic signal improvements associated with the project. Any damage to water facilities resulting from the installation of the project improvements shall be replaced in kind by the contractor and at the contractor's expense.
- The traffic signal operation at existing signalized intersections shall be maintained throughout the duration of the project.

EQUIPMENT NOTES

- The contractor shall remove and salvage existing poles, mast arms, and other equipment that will not be reused in the project to the COT Electric Shop. Call the COT Electric shop at (520) 791-3154 for instructions at least 48 hours in advance.
- All pedestrian pushbutton assemblies shall be an APS (audio vibrotactile type) pushbutton, Campbell Company AGPS 400 or approved equal and shall be mounted 42 inches above the finished grade to the center of the pushbutton. Locations and accessibility of pushbuttons shall comply with the requirements of the Americans with Disabilities Act (ADA). The pedestrian pushbutton signs that shall be used are identified in the 2009 MUTCD in Section 2B.51 and are shown in PAG Std Dtl T 1104.
- All signal indications shall be LED. Pedestrian signals shall be the international man/hand with a countdown timer, and bike signals shall have the BIKES WAIT/BIKES OK message.
- All mast arm signal heads shall have the yellow metal housing with black aluminum louvered backplates.
- Luminaires shall be American Electric Lighting LED Autobahn ATB2 Series, 173W, 120V, Type 3, 3000 KCCT with a 7-pin Roam Node connector.

RESPONSIBILITIES

- The contractor shall install the following City supplied equipment and materials: traffic signal controller cabinet(s) with controller(s). The contractor shall supply and install the following equipment and materials as specified in the plans: steel pole anchor bolts (with nuts and washers), concrete pole foundations with reinforcement (where specified), controller cabinet concrete foundation(s), concrete pull boxes, electrical conduit, ground rods and connectors, bare bond wire and all other conductors, poles, mast arms, traffic signals and mounting assemblies, pedestrian/bicycle signals and mounting assemblies, pedestrian push button stations with signs, emergency vehicle preemption with mounting assemblies, luminaires, photocells, pole and mast arm signs with mounting assemblies, service pedestal with concrete foundation(s), all auxiliary equipment, and all other appurtenances necessary for the operation of the traffic signal installation(s), except as modified in the plans.
- The contractor shall pick up and transport the traffic controller cabinet(s) from the City of Tucson Streets and Traffic Maintenance Division Yard to the intersection(s). Call (520) 791-3191 at least 48 hours in advance of pickup.
- The contractor shall install each traffic controller cabinet on its foundation and route all of the conductors into the controller cabinet. The City of Tucson Streets and Traffic Maintenance Division staff shall terminate the conductors in the controller cabinet.

UNDERGROUND FACILITIES

Two full working days before beginning any excavation, the contractor shall contact Arizona 811 at 1-800-782-5348 to request marking of underground facilities. Underground facilities shall be exposed and located in accordance with A.R.S. 40-360.21 through 360.29.

OVERHEAD POWER LINES

The contractor's attention is directed to A.R.S. 40-360.41 through 360.44 for restrictions on work in the vicinity of overhead power lines. The contractor shall not operate power equipment placed so that any extension of the equipment and/or load carried by the equipment can reach to within ten (10) feet of active power lines rated at or under 50 kilovolts. Greater clearances apply for higher voltage power lines. Where work within the clearance limits is necessary, the contractor shall contact TEP ten (10) working days in advance of the proposed work, to arrange for temporary deactivation, or other measures deemed necessary to permit safe operation near the overhead lines. Where excavation near existing power poles is planned, the contractor shall contact TEP ten (10) working days in advance, to arrange for bracing and shoring. Before the end of the work shift each day, the contractor shall provide drivable access to all TEP poles, equipment, and facilities.

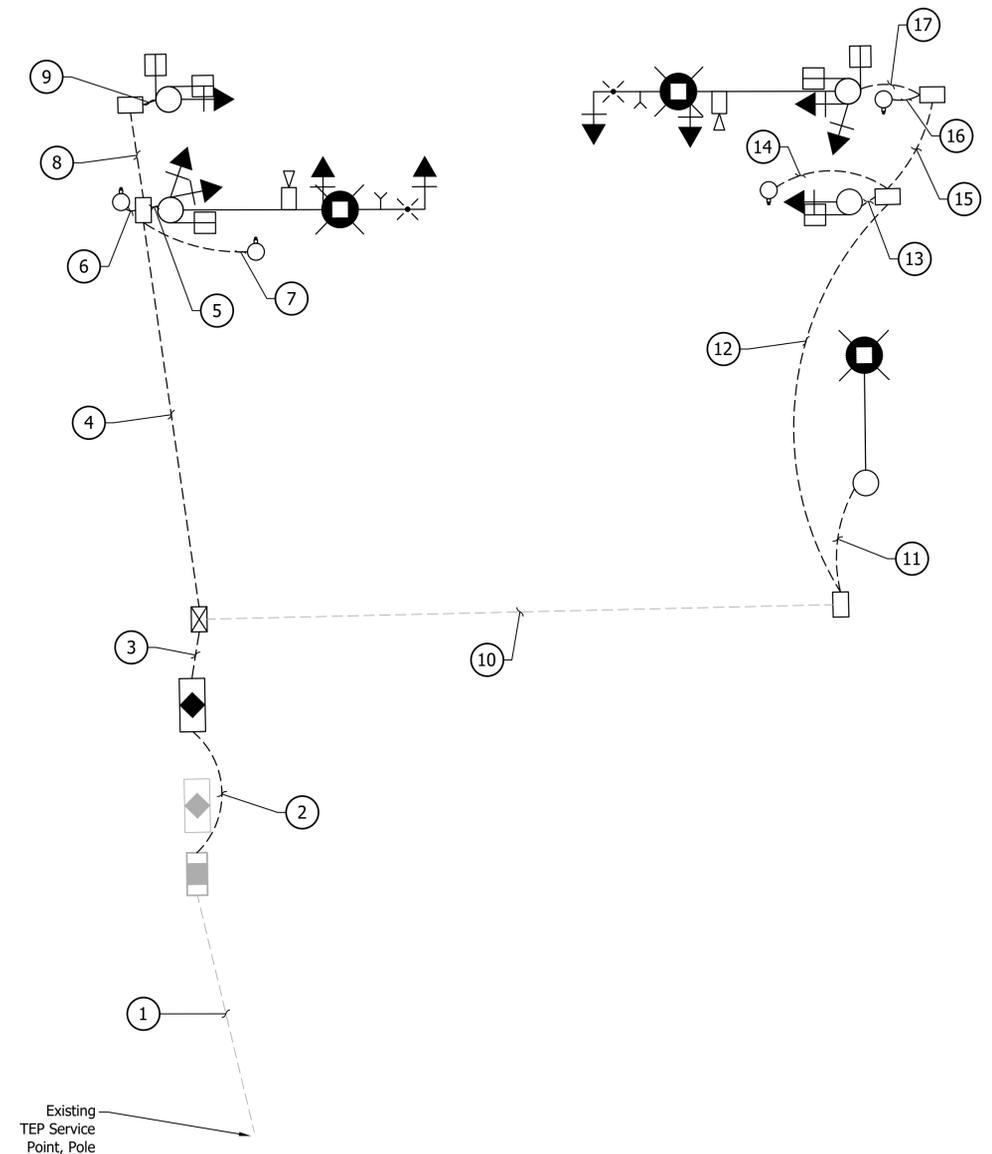
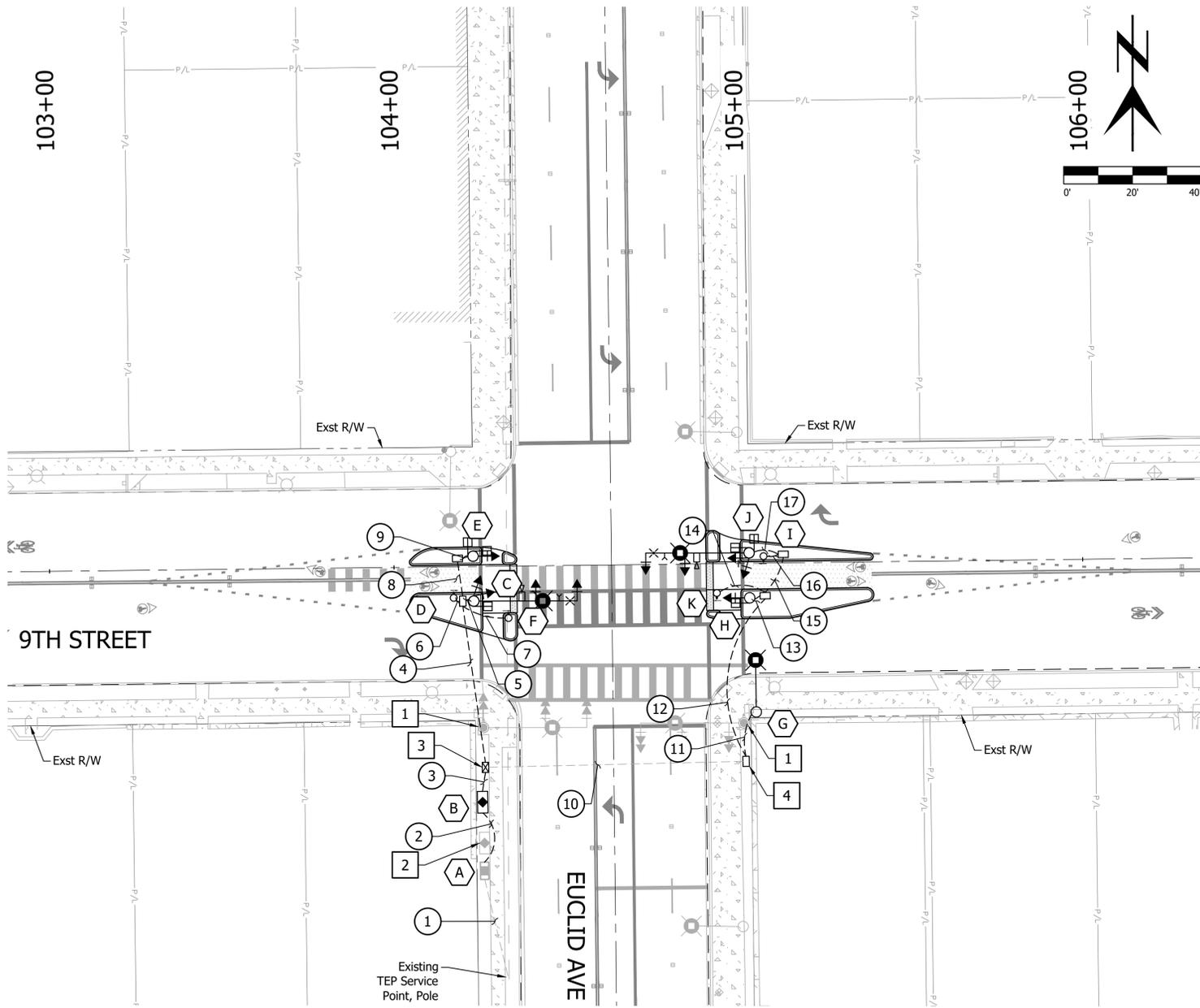
LEGEND	PROPOSED	EXISTING
Traffic Control Cabinet with Foundation		
Metered Service Pedestal with Foundation		
Traffic Signal Pole		
Traffic Signal Face		
Pedestrian Signal		
Bicycle Signal		
Pushbutton		
Luminaire Pole		
Pull Box No. 3-1/2		
Pull Box No. 5		
Pull Box No. 7		
Pull Box No. 7 with Extension		

TS01 OF TS04

 2 E CONGRESS STREET, SUITE 705 TUCSON, AZ 85701 P 520.544.4067 F 520.544.9616		DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION 9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE TRAFFIC SIGNAL AND LIGHTING GENERAL NOTES			
		PRELIMINARY 60% REVIEW NOT FOR CONSTRUCTION OR RECORDING	APPROVALS _____ _____ _____	SIGNATORY _____ _____ _____	DATE _____ _____ _____
NO. DATE REVISION DESCRIPTION BY CHKD. APPR.	DRWN. BY <u>BDH</u> 20 <u>22</u> DSGN. BY <u>BDH</u> 20 <u>22</u> CHKD. BY <u>FLG</u> 20 <u>22</u>	PLAN NO. <u>U-2022-006</u>	44 OF 59		

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CONSTRUCTION NOTES

- 1 Remove and salvage existing Type Q Signal Pole. Remove existing foundation. Backfill and compact void.
- 2 Remove and salvage existing Signal Control Cabinet complete. Remove existing foundation. Backfill and compact void.
- 3 Remove and replace No. 7 Pull Box with Extension.
- 4 Remove and replace No. 7 Pull Box.

TS02 OF TS04

KITTELSON & ASSOCIATES
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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
TRAFFIC SIGNAL PLAN SHEETS

NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.

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 OR RECORDING

APPROVALS	SIGNATORY	DATE	APPROVED	NO.
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				OF
				59
TRANSPORTATION DIRECTOR				
REF. SCALE: 1"=20'				
DRWN. BY <u>BDH</u> 20 22	DSGN. BY <u>BDH</u> 20 22	CHKD. BY <u>FLG</u> 20 22	PLAN NO. <u>U-2022-006</u>	



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CABINET SCHEDULE						
CABINET	TYPE	CONTROLLER	AUX. CONTROLLER	FOUNDATION	LOCATION	REMARKS
A		METERED PEDESTAL	-	T 1801	-	PROTECT IN PLACE
B		CONTROLLE R TYPE V T 313	NEMA TS-2 TYPE 2 ECONOLITE COBALT CONTROLLER	T 203		

POLE SCHEDULE									
POLE	MAST ARM	SIGNALS	PED/BIKE PUSHBUTTON	LUMINAIRE	LOCATION	REMARKS			
NUMBER	TYPE	SIGNAL	LUMINAIRE	FACE	MOUNTING				
C		Q T 412	30'	20'	(3) F T 801 (1) F BIKE T 801 (1) PED T 804	(2) II T 901 (1) VII T 905 (1) XI T 909	-	SEE EQUIPMENT NOTE 5 SHT TS01	INSTALL VIDEO DETECTION CAMERA ON LUMINAIRE MAST ARM. INSTALL PREEMPT SENSOR AND BEACON. INSTALL CROSSING SIGN ON MAST ARM, SHT SG10.
D		PPB POST - TYPE I T 419	-	-	-	-	(1) TYPE I 2" ADA T 1101 BIKE T 1103	-	
E		A - 10' T 401	-	-	(1) F BIKE T 801 (2) PED T 804	(1) IV T 903 (2) XI T 909	-	-	
F		PPB POST - TYPE I T 419	-	-	-	-	(1) TYPE I 2" ADA T 1101 R10-4b(L) T 1104	-	
G		TYPE 1 T 444	-	15'	-	-	-	SEE EQUIPMENT NOTE 5 SHT TS01	
H		A - 10' T 401	-	-	(1) F BIKE T 801 (2) PED T 804	(1) IV T 903 (1) XI T 909	-	-	
I		PPB POST - TYPE I T 419	-	-	-	-	(1) TYPE I 2" ADA T 1101 BIKE T 1103	-	
J		Q T 412	30'	20'	(3) F T 801 (1) F BIKE T 801 (1) PED T 804	(2) II T 901 (1) VII T 905 (1) XI T 909	(1) TYPE I 2" ADA T 1101	SEE EQUIPMENT NOTE 5 SHT TS01	INSTALL VIDEO DETECTION CAMERA ON LUMINAIRE MAST ARM. INSTALL PREEMPT SENSOR AND BEACON. INSTALL CROSSING SIGN ON MAST ARM, SHT SG10.
K		PPB POST - TYPE I T 419	-	-	-	-	(1) TYPE I 2" ADA T 1101 R10-4b(L) T 1104	-	

CONDUIT AND CONDUCTOR SCHEDULE																	
CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
CONDUIT SIZE (INCHES)	2 1/2	2	3(4)	2(4)	3	2	2	2(4)	2	2(4)*	2	2(4)	2	2	2(4)	2	3
CIRCUIT PHASE	EXIST SERVICE CONDUCTORS																
#14 16 CONDUCTOR IMSA CABLE	BLACK-PED SIGNAL WALK																
	WHITE-SIGNAL COMMON																
	RED-AØ SIGNAL RED																
	GREEN-AØ SIGNAL GREEN																
	ORANGE-PED PUSHBUTTON																
	BLUE-AØ SIGNAL YELLOW																
	WHITE W/B-LOW VOLTAGE COMMON																
	RED W/B-AØ AUX RED																
	GREEN W/B-AØ AUX GREEN																
	ORANGE W/B-SPARE PED PUSHBUTTON																
	BLUE W/B-AØ AUX YELLOW																
	BLACK W/W-PED SIGNAL DON'T WALK																
	RED W/W-SPARE																
	GREEN W/W-BØ LEFT TURN GREEN																
BLUE W/W-BØ LEFT TURN YELLOW																	
BLACK W/R-SPARE																	
#14 7CC IMSA			4	2		1	1				2		2		1	1	1
#8 BARE			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
#10 THW	STREET LIGHT CIRCUIT #1 (BLACK)			1	1	1					1	1					
	STREET LIGHT CIRCUIT #2 (RED)			1							1		1			1	1
	STREET LIGHT COMMON (WHITE)			1	1	1					1	1	1			1	1
	PRE-EMT BEACON			1	1	1	1				1	1	1			1	1
#4 THW	POWER HOT (RED) (BLACK)			2													
	POWER NEUTRAL (WHITE)			1													
TOMAR M913	PRE-EMPT SENSOR			1	1	1	1				1		1		1		1
	PRE-EMPT SENSOR			1	1	1	1				1		1		1		1
TERRA 3 CABLE	VIDEO DETECTION CABLE			2	1	1					1		1		1		1

*REUSE EXISTING 4" CONDUIT, INSTALL SECOND 4" CONDUIT.

TS03 OF TS04

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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
TRAFFIC SIGNAL PLAN SHEETS

NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.

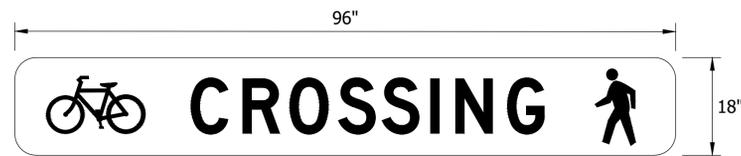
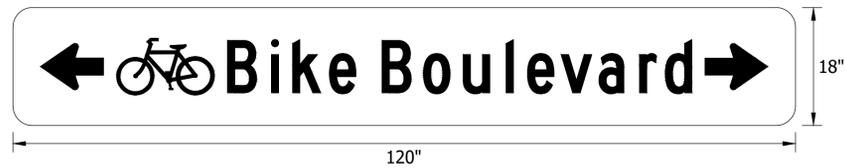
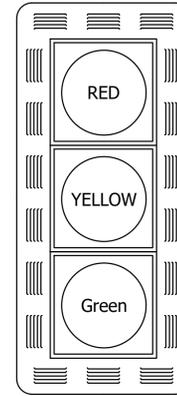
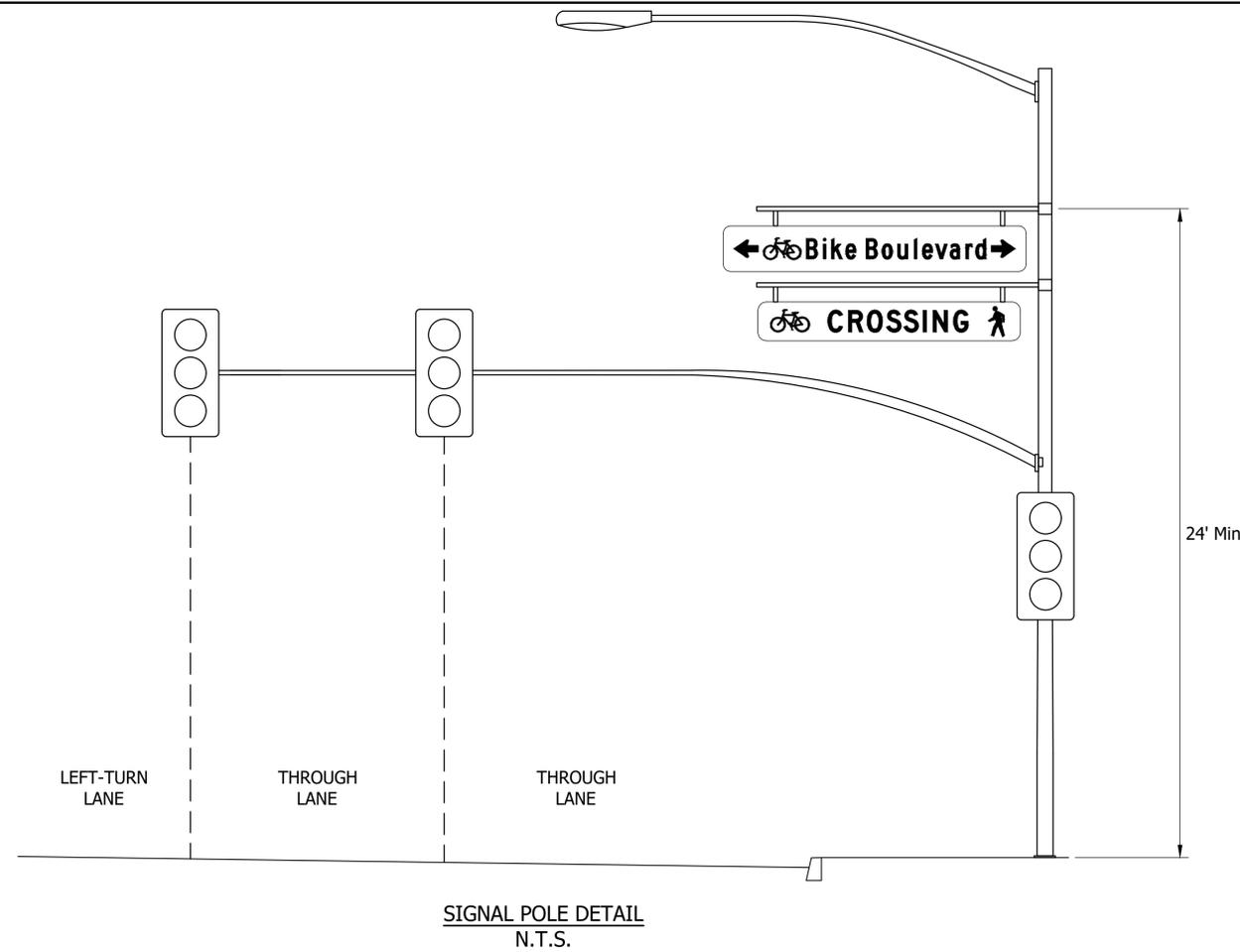
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 OR RECORDING

APPROVALS	SIGNATORY	DATE

APPROVED _____ 20__ 46 OF 59
 TRANSPORTATION DIRECTOR
 REF. _____ SCALE: _____
 DRWN. BY BDH 20 22 DSGN. BY BDH 20 22 CHKD. BY FLG 20 22 PLAN NO. U-2022-006



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TS04 of TS04

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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
 SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE
TRAFFIC SIGNAL DETAILS

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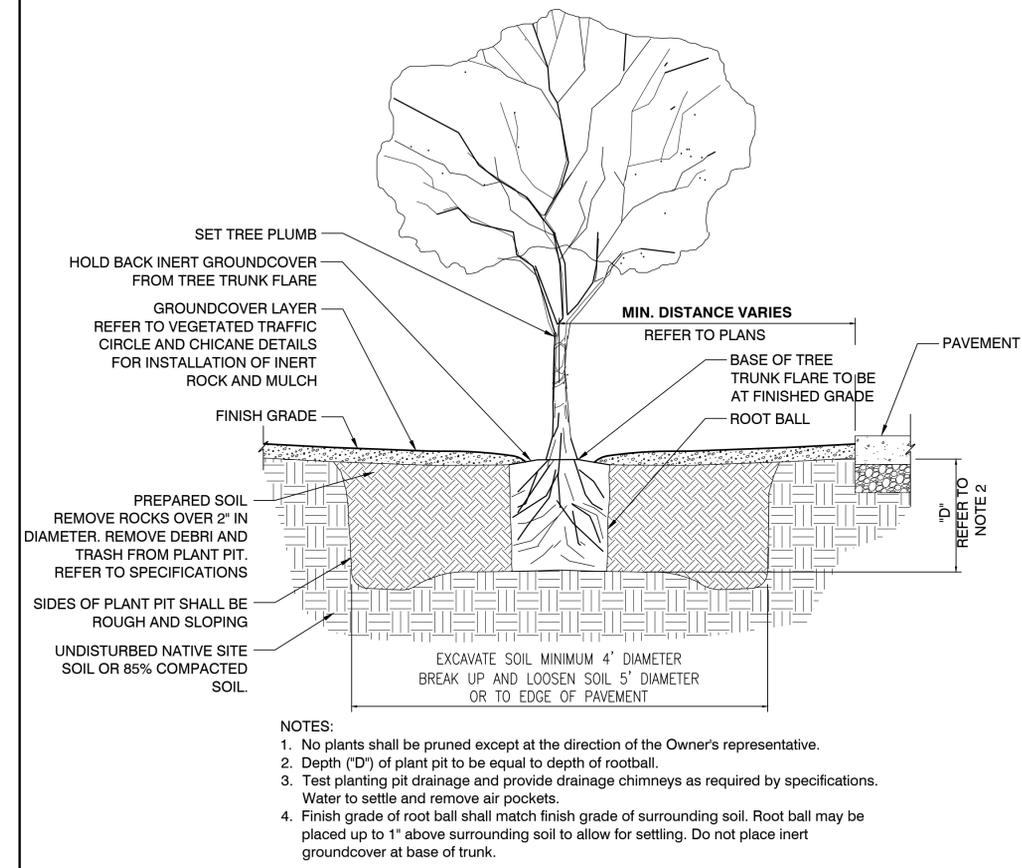
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			REF. _____ SCALE: _____
			PLAN NO. U-2022-006



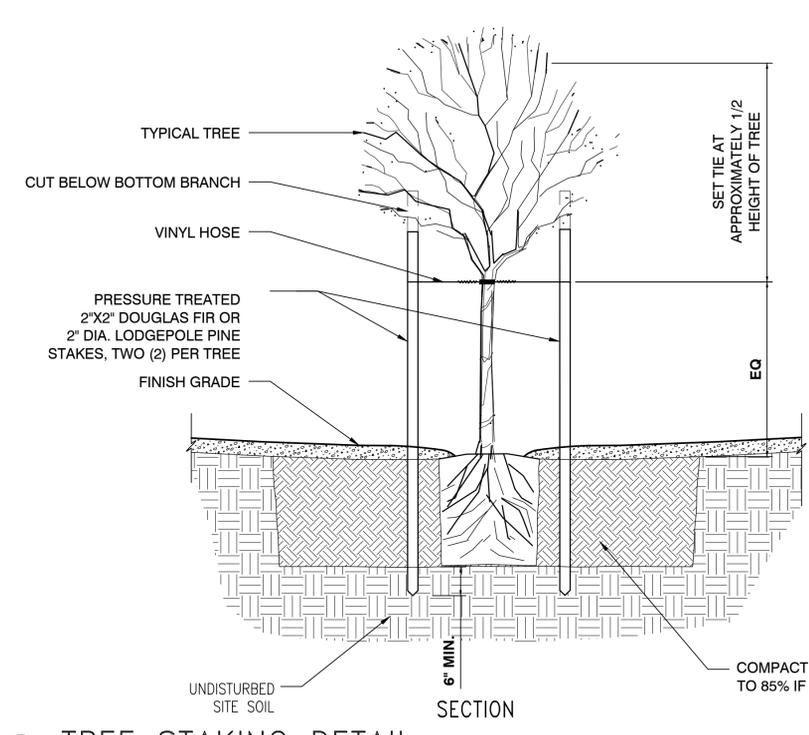
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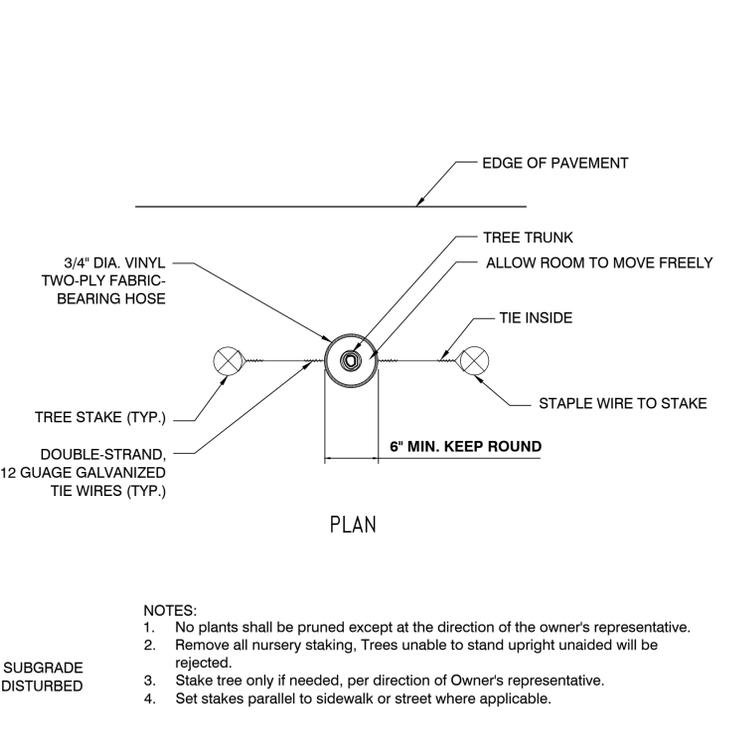


- NOTES:**
1. No plants shall be pruned except at the direction of the Owner's representative.
 2. Depth ("D") of plant pit to be equal to depth of rootball.
 3. Test planting pit drainage and provide drainage chimneys as required by specifications. Water to settle and remove air pockets.
 4. Finish grade of root ball shall match finish grade of surrounding soil. Root ball may be placed up to 1" above surrounding soil to allow for settling. Do not place inert groundcover at base of trunk.

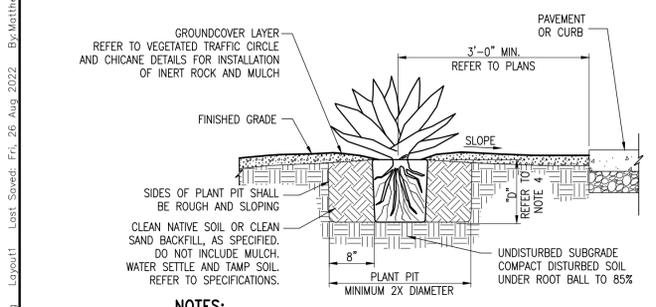
1 TREE PLANTING DETAIL
N.T.S.



2 TREE STAKING DETAIL
N.T.S.

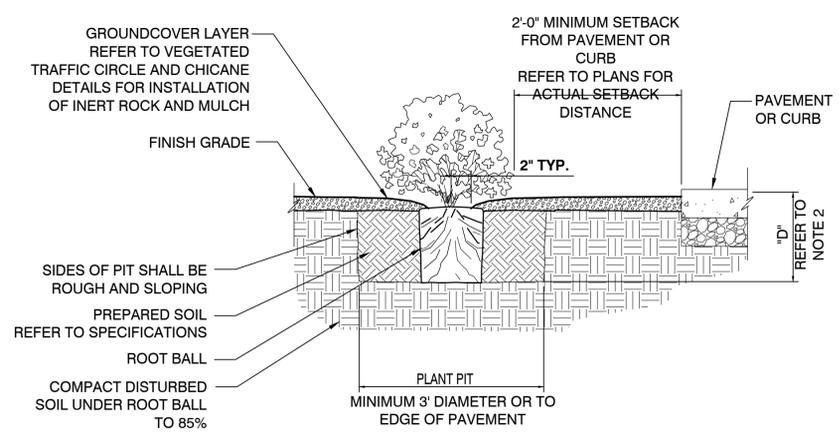


- NOTES:**
1. No plants shall be pruned except at the direction of the owner's representative.
 2. Remove all nursery staking. Trees unable to stand upright unaided will be rejected.
 3. Stake tree only if needed, per direction of Owner's representative.
 4. Set stakes parallel to sidewalk or street where applicable.



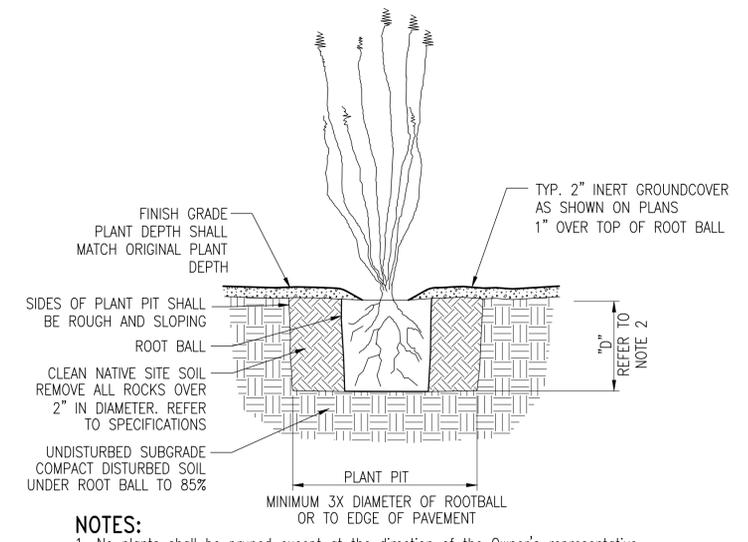
- NOTES:**
1. This detail applies to nursery grown stock of the Genera agave, aloe, dasylirion, hesperaloe, notina and yucca.
 2. Do not create a basin at base of plant. Slope backfill away from stem.
 3. Set stem succulent so that top of root ball matches adjacent grade.
 4. Depth ("D") of plant pit to be equal to depth of rootball.

3 AGAVE AND SUCCULENT PLANTING
N.T.S.



- NOTES:**
1. No plants shall be pruned except at the direction of the owner's representative.
 2. Depth ("D") of plant pit to be equal to depth of rootball.
 3. Test planting pit drainage and provide drainage chimneys as required by specifications.
 4. Finish grade of root ball shall match finish grade of surrounding soil. Root ball may be placed up to 1" above surrounding soil to allow for settling.
 5. Do not place inert groundcover at base of plant.

4 SHRUB PLANTING DETAIL
N.T.S.



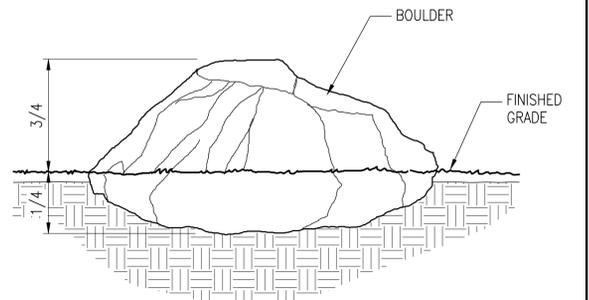
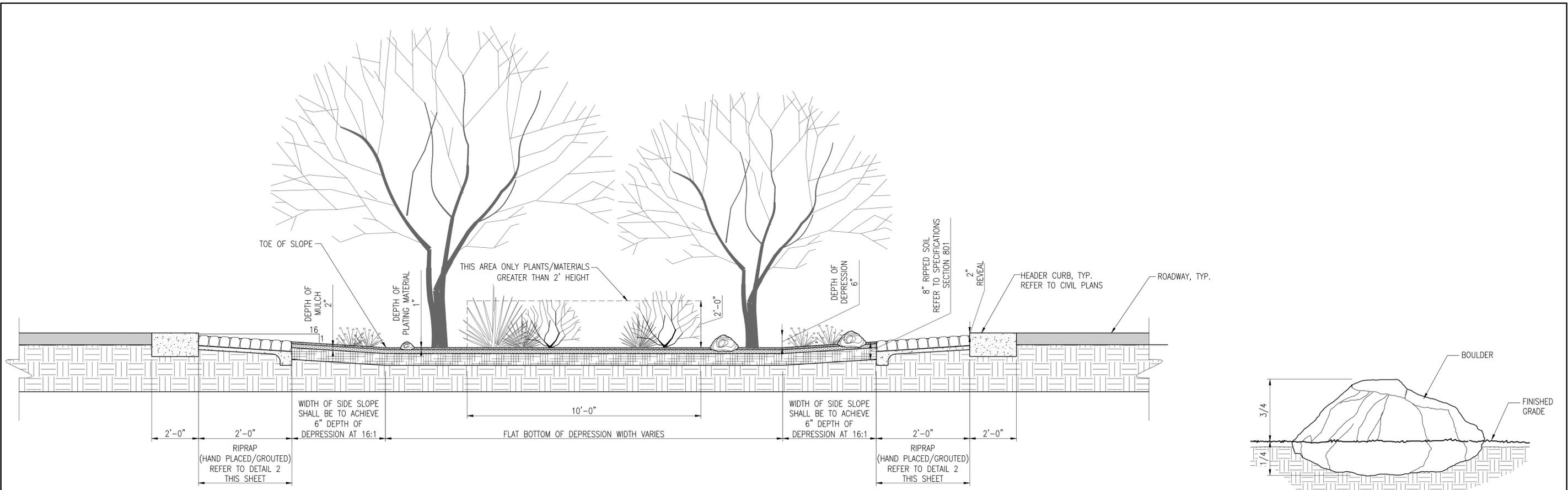
- NOTES:**
1. No plants shall be pruned except at the direction of the Owner's representative.
 2. Depth ("D") of plant pit to be equal to depth of rootball.
 3. Test planting pit drainage and provide drainage chimneys as required by Specifications.
 4. Finish grade of root ball shall match finish grade of surrounding soil. Root ball may be placed up to 1" above surrounding soil to allow for settling. Do not place mulch at base of plant.

5 OCOTILLO PLANTING (CONTAINER GROWN)
N.T.S.

WHEAT DESIGN GROUP LANDSCAPE ARCHITECTS 500 N. TUCSON BLVD, SUITE 150 TUCSON ARIZONA 85714 T: 520 884 7911		CITY OF TUCSON DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION 9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS SAINT MARYS RD TO FORT LOWELL RD, EUCLID AVE TO 6TH AVE, AND 4TH AVE TO TREAT AVE Details																														
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PLAN NO. U-2022-006																																

LP2-01 of LP2-02





NOTES:

1. Traffic circle diameters vary. Refer to Civil Plans.
2. Boulders shall not be placed on top of riprap.
3. Slopes to receive riprap shall be graded at 16:1 prior to placing the concrete bed.
4. Plating material shall be installed at a depth of 1". Refer to hardscape schedule for material.
5. Mulch shall be installed at a depth of 2". Refer to hardscape schedule for material.

NOTES:

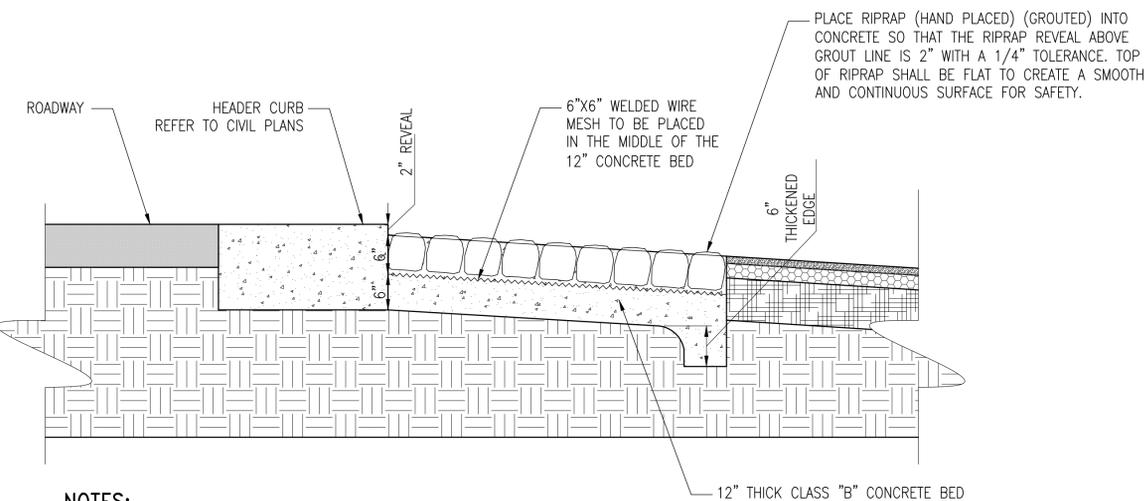
1. Boulder to be set with 1/4 mass below finished grade.
2. Set boulders firmly so they do not rock. Compact soil around edges.
3. All boulders to have weathered surface exposed.

1 VEGETATED TRAFFIC CIRCLE SECTION

1/2"=1'-0"

2 BOULDER PLACEMENT

N.T.S.

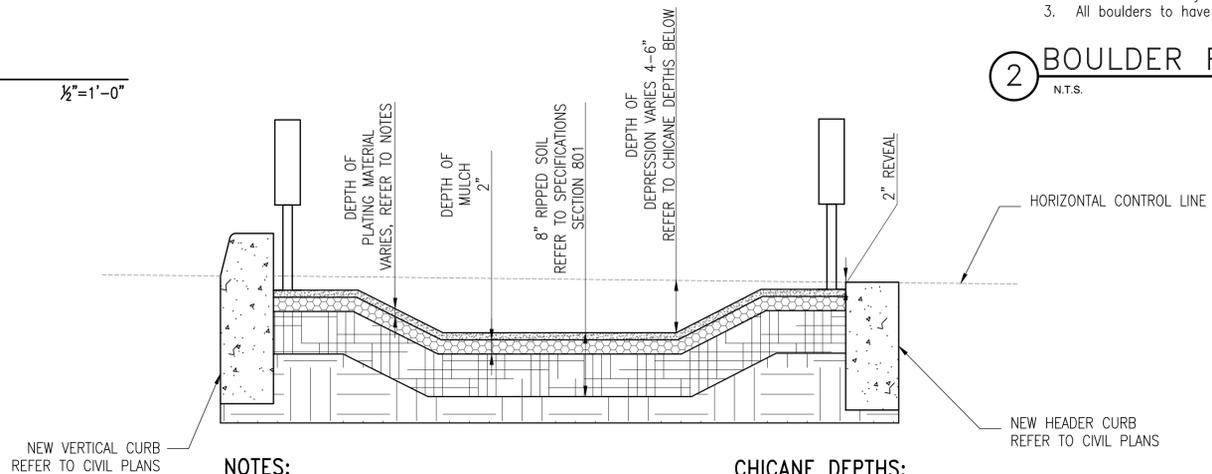


NOTES:

1. Riprap (hand placed) (grouted) shall vary between 4" and 6" and angular. River rock shall not be used.
2. Riprap (hand placed) (grouted) shall be hand placed in 12" thick concrete bed with 1/2" to 2" of concrete between rocks.
3. Riprap (hand placed) (grouted) color shall be Santa Fe Gold or approved equal.
4. Welded wire mesh shall be installed to reinforce strength of concreted bed.

3 GROUTED RIPRAP

N.T.S.



NOTES:

1. For chicanes with desert cobble, depth of material shall be 1". For chicanes with riprap, depth of material shall be 6". Refer to plans for specific locations.
2. Mulch shall be installed at a depth of 2". Refer to hardscape schedule for material.

CHICANE DEPTHS:

1. Two (2) chicanes at [TBD] between [TBD] and [TBD] shall be 4" deep.
2. Two (2) chicanes at [TBD] between [TBD] and [TBD] shall be 5" deep.
3. All other chicanes on project shall be 6" deep.

4 VEGETATED CHICANE SECTION

HSDET-Chicane Section units: ENG; scale factor: 12

1"=1'-0"

LP2-02 of LP2-02

WHEAT DESIGN GROUP
LANDSCAPE ARCHITECTS

500 N. TUCSON BLVD, SUITE 150
TUCSON ARIZONA 85714
T: 520.884.7911



DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
SAINT MARYS RD TO FORT LOWELL RD, EUCLID AVE TO 6TH AVE, AND 4TH AVE TO TREAT AVE
Details

NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.

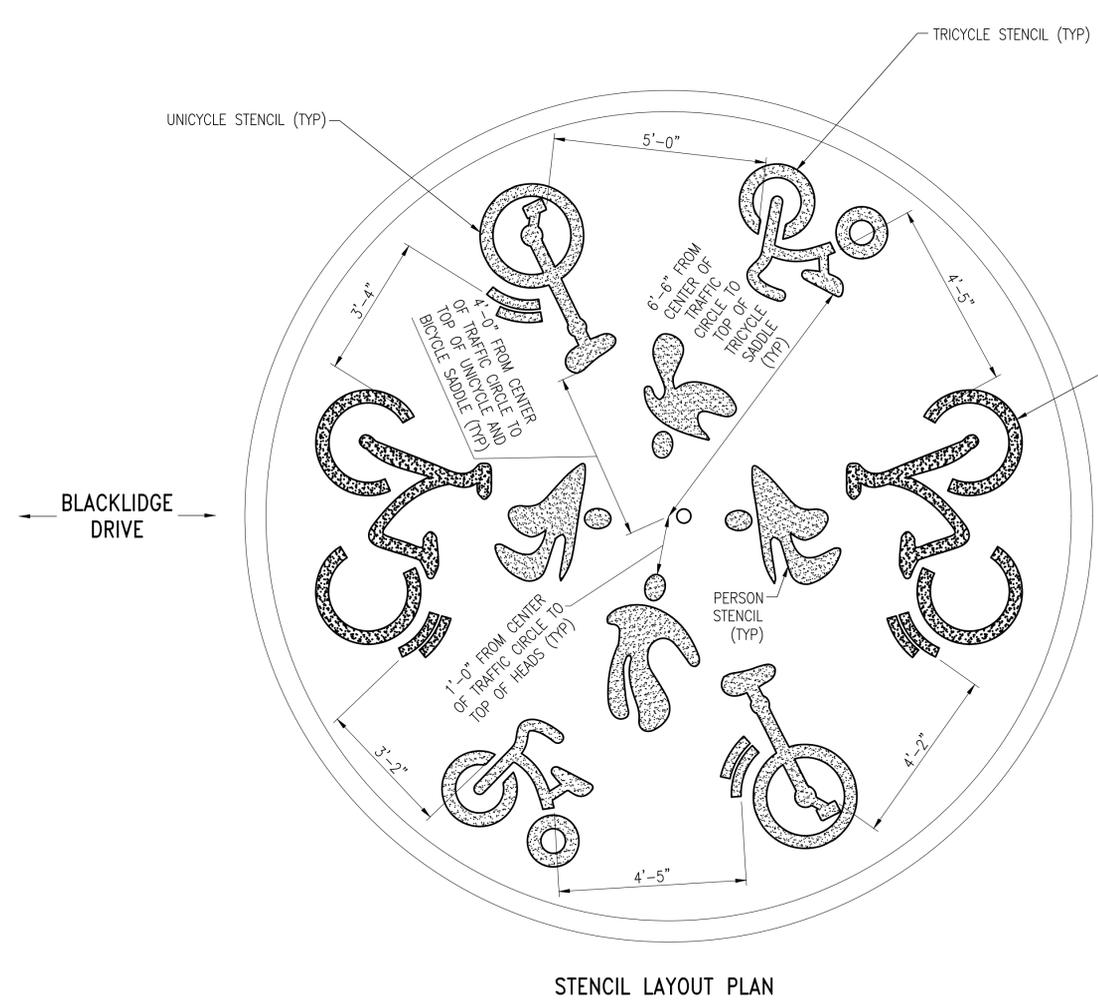
PRELIMINARY
60%
REVIEW
NOT FOR
CONSTRUCTION
OR RECORDING

APPROVALS	SIGNATORY	DATE

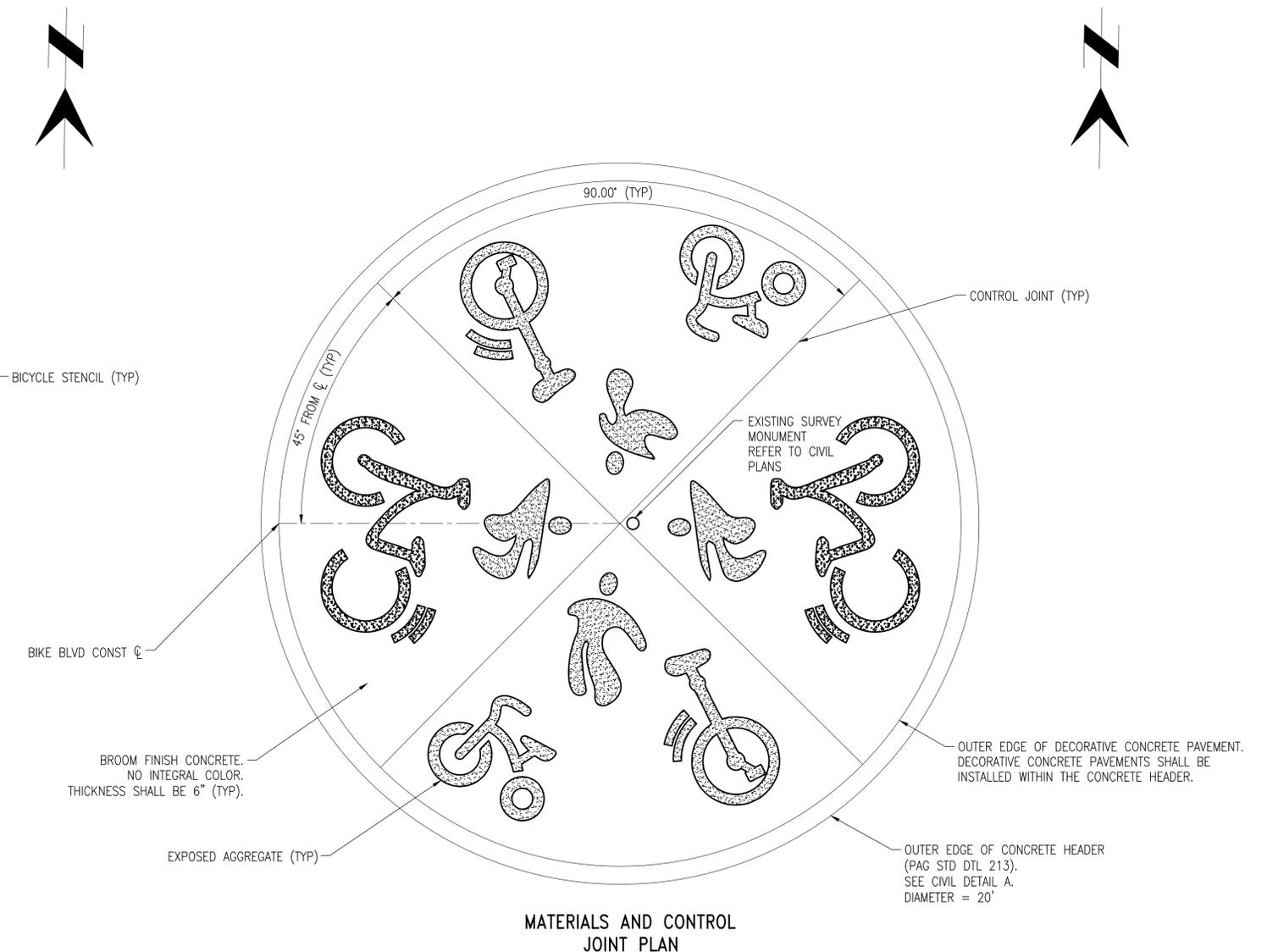
APPROVED _____ 20__ OF _____ 59
TRANSPORTATION DIRECTOR
REF. _____ SCALE: _____
DRWN. BY _____ 20__ DSGN. BY _____ 20__ CHKD. BY _____ 20__ PLAN NO. **U-2022-006**



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STENCIL LAYOUT PLAN



MATERIALS AND CONTROL JOINT PLAN

- NOTES:**
- Item 931006, Decorative Concrete Pavement, includes all concrete within the traffic circle, including broomed finish and exposed aggregate finish stencils. Refer to Special Provisions.
 - Exposed aggregate concrete figures shall be located from center of traffic circle. Refer to detail.
 - Bicycle stencil shall be aligned perpendicular to street centerlines.
 - Fabrication of stencils to be generated from full scale electronic CAD data.

PAVED TRAFFIC CIRCLE –
9TH ST AND WARREN AVENUE
7TH ST AND PLUMER AVENUE

1

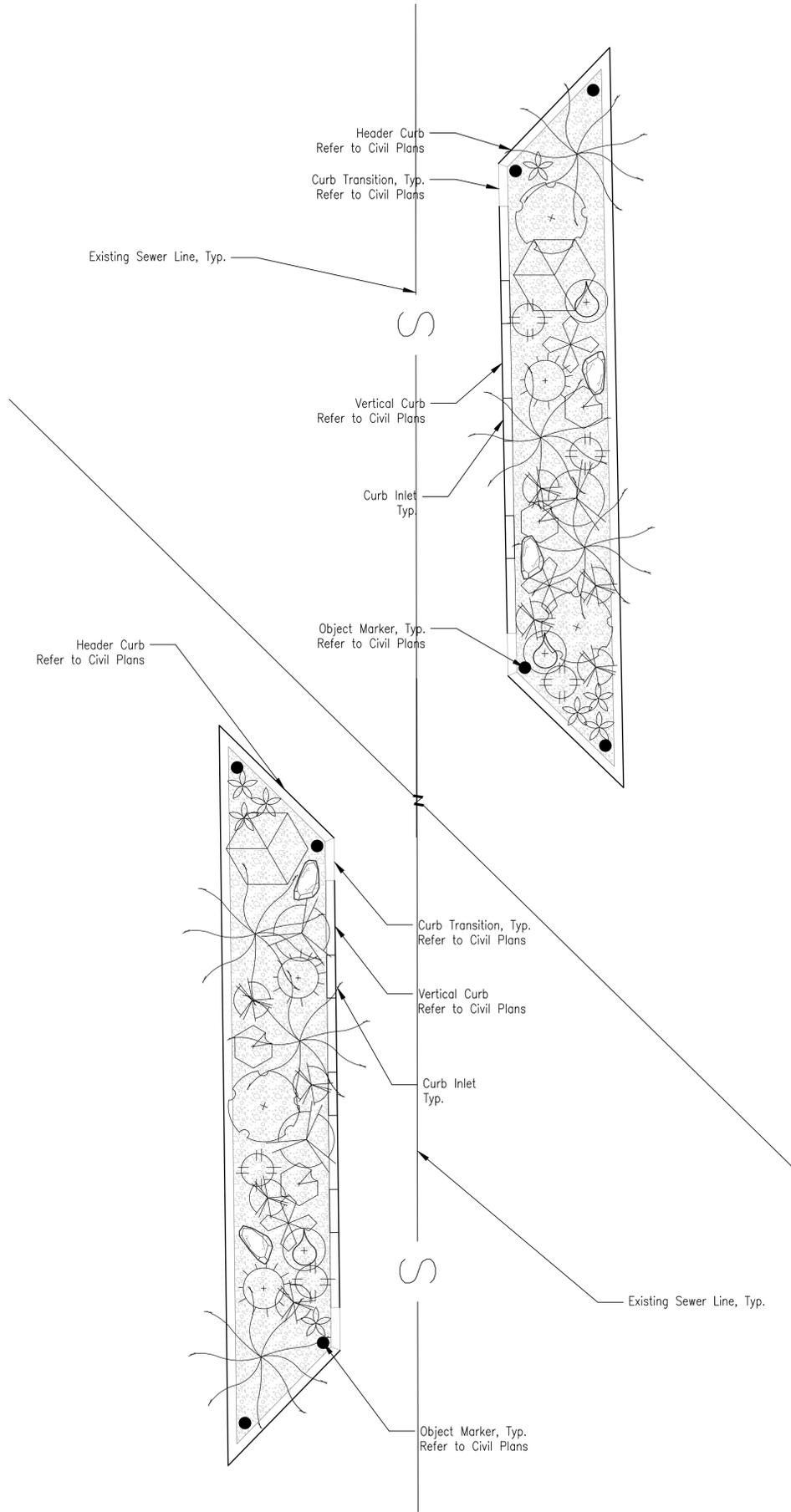
1/2"=1'-0"

LP2-03 of LP2-03

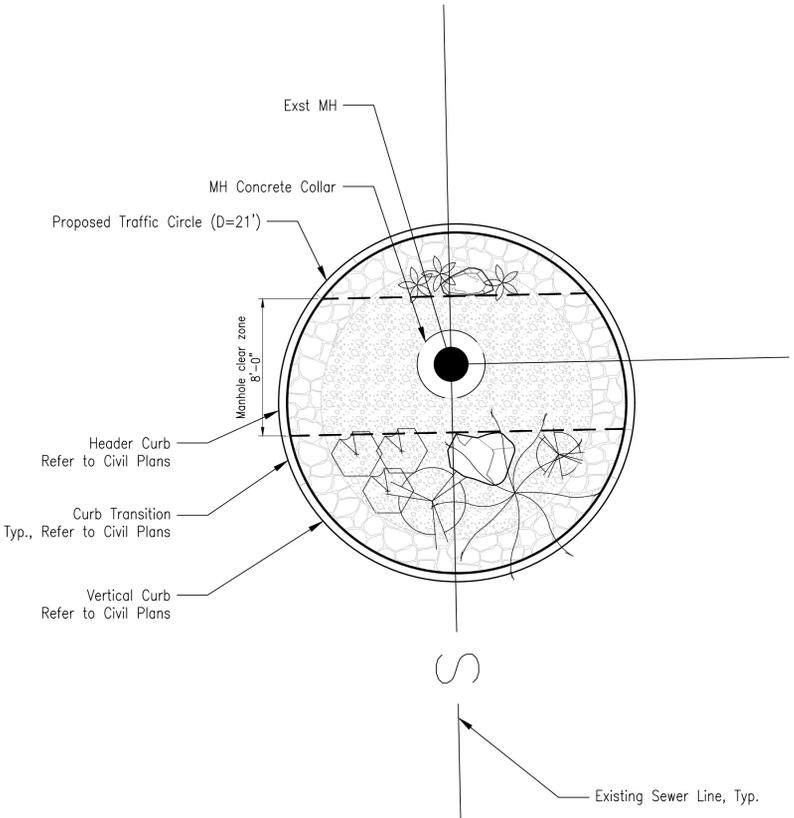
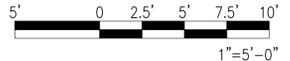
WHEAT DESIGN GROUP LANDSCAPE ARCHITECTS 500 N. TUCSON BLVD, SUITE 150 TUCSON ARIZONA 85714 T: 520 884 7911			DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION 9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS SAINT MARYS RD TO FORT LOWELL RD, EUCLID AVE TO 6TH AVE, AND 4TH AVE TO TREAT AVE Details					
PRELIMINARY 60% REVIEW NOT FOR CONSTRUCTION OR RECORDING		APPROVALS SIGNATORY DATE	APPROVED _____ 20__ OF TRANSPORTATION DIRECTOR REF: _____ SCALE: _____ PLAN NO. U-2022-006					
NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.	DRWN. BY _____ 20__	DSGN. BY _____ 20__	CHKD. BY _____ 20__



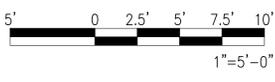
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01 Chicanes at Balboa Avenue between Fort Lowell Road and Delano Street



02 Traffic circle at Balboa Avenue and Delano Street



PLANT SCHEDULE	
TREES	BOTANICAL / COMMON NAME
	<i>Chilopsis linearis</i> `AZT Dora`s Desert Rose` TM Desert Willow
	<i>Olneya tesota</i> Desert Ironwood

SHRUBS	BOTANICAL / COMMON NAME
	<i>Asclepias subulata</i> Desert Milkweed
	<i>Calliandra eriophylla</i> Sonoran Fairy Duster
	<i>Dalea frutescens</i> Black Dalea
	<i>Dasylirion wheeleri</i> Desert Spoon
	<i>Ericameria laricifolia</i> Turpentine Bush
	<i>Justicia californica</i> Chuparosa
	<i>Larrea tridentata</i> Creosote Bush
	<i>Simmondsia chinensis</i> Jojoba
	<i>Sphaeralcea ambigua</i> Desert Globemallow

CACTI	BOTANICAL / COMMON NAME
	<i>Ferocactus wislizenii</i> Fish Hook Barrel Cactus
	<i>Fouquieria splendens</i> Ocotillo
	<i>Opuntia santa-rita</i> Santa Rita Prickly Pear

GRASSES	BOTANICAL / COMMON NAME
	<i>Muhlenbergia emersleyi</i> Bullgrass
	<i>Muhlenbergia rigens</i> Deer Grass

HARDSCAPE SCHEDULE	
SYMBOL	DESCRIPTION
	2' x 2' Boulder
	3' x 3' Boulder
	Desert Cobble
	Grouted Rip Rap
	Decorative Concrete (Exposed Aggregate)

LP3-01 of LP3-07

WHEAT DESIGN GROUP
LANDSCAPE ARCHITECTS
500 N. TUCSON BLVD, SUITE 150
TUCSON ARIZONA 85714
T: 520 884 7911



DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
SAINT MARYS RD TO FORT LOWELL RD, EUCLID AVE TO 6TH AVE, AND 4TH AVE TO TREAT AVE
Landscape Plan

NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.

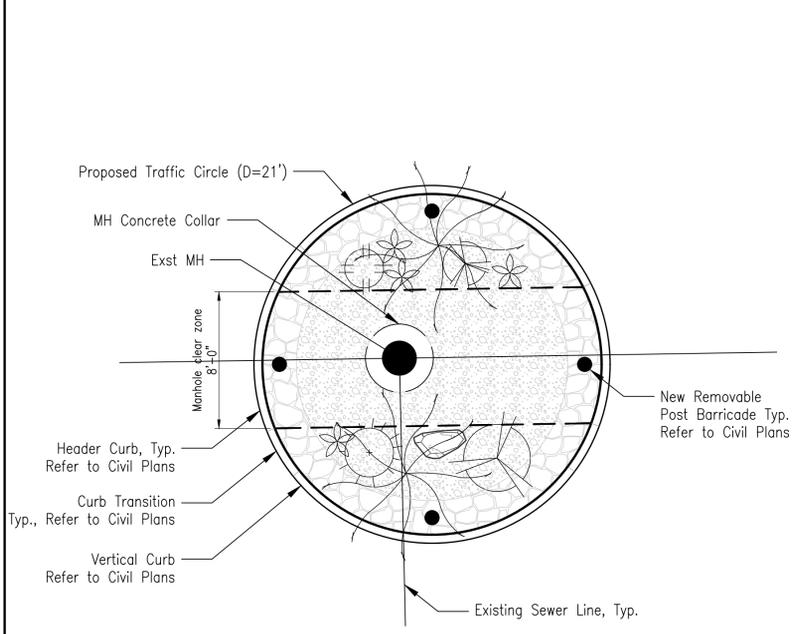
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OR RECORDING

APPROVALS	SIGNATORY	DATE

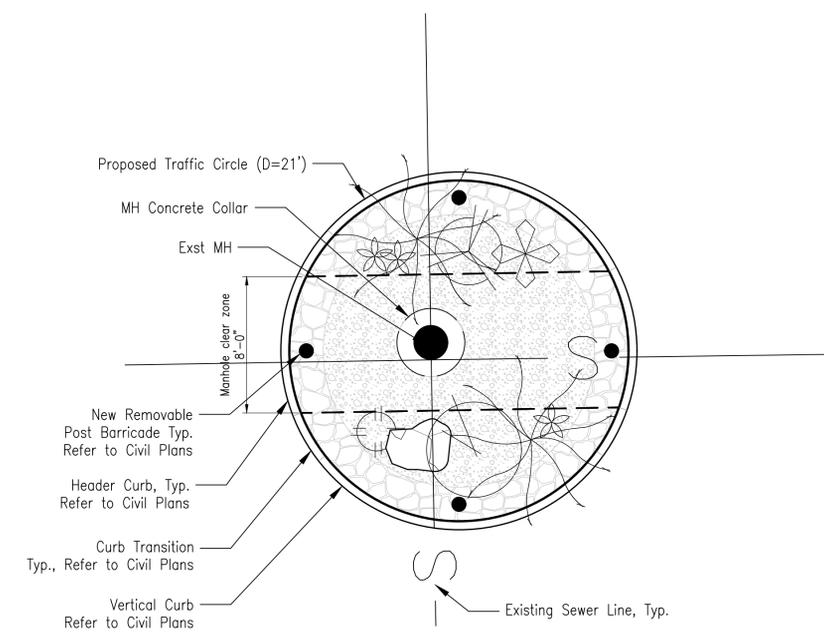
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	OF
	59
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REF: _____ SCALE: _____	
DRWN. BY _____ 20__	
DSGN. BY _____ 20__	
CHKD. BY _____ 20__	
PLAN NO. U-2022-006	



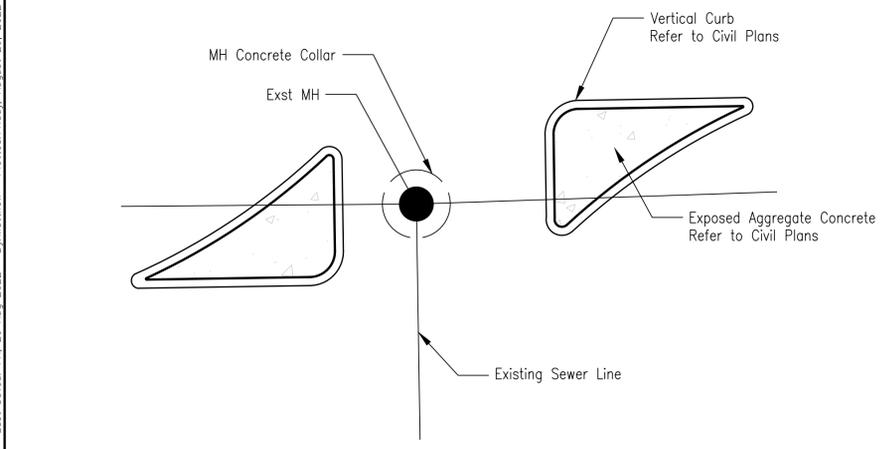
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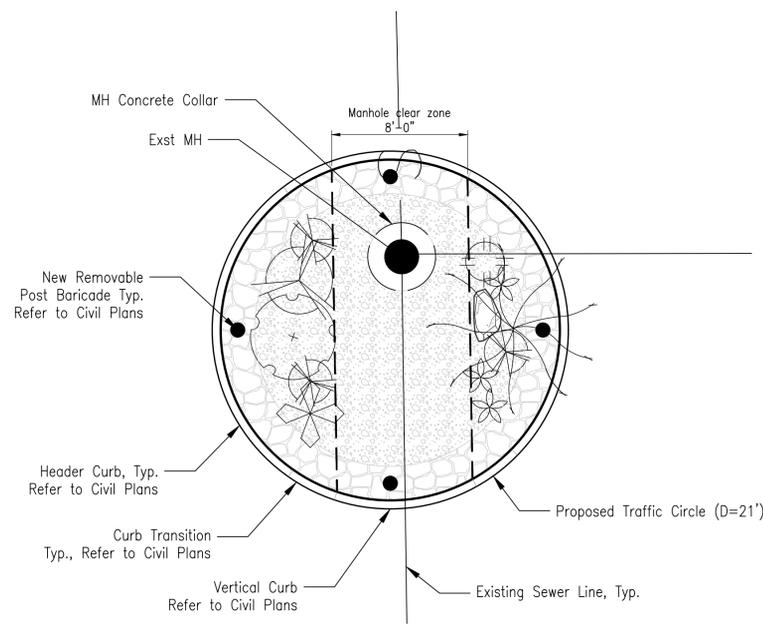
03 Traffic circle at 9th Avenue and Laguna Street
 Scale: 1"=5'-0" (0, 2.5', 5', 7.5', 10')



05 Traffic circle at 9th Avenue and Kelso Street
 Scale: 1"=5'-0" (0, 2.5', 5', 7.5', 10')



04 Center islands at 9th Avenue and Glenn Street
 Scale: 1"=5'-0" (0, 2.5', 5', 7.5', 10')



06 Traffic circle at 9th Avenue and Alturas Street
 Scale: 1"=5'-0" (0, 2.5', 5', 7.5', 10')

PLANT SCHEDULE	
TREES	BOTANICAL / COMMON NAME
	Chilopsis linearis 'AZT Dora's Desert Rose'™ Desert Willow
	Olneya tesota Desert Ironwood

SHRUBS	BOTANICAL / COMMON NAME	CACTI	BOTANICAL / COMMON NAME
	Asclepias subulata Desert Milkweed		Ferocactus wislizenii Fish Hook Barrel Cactus
	Calliandra eriophylla Sonoran Fairy Duster		Fouquieria splendens Ocotillo
	Dalea frutescens Black Dalea		Opuntia santa-rita Santa Rita Prickly Pear
	Dasylirion wheeleri Desert Spoon	GRASSES BOTANICAL / COMMON NAME	
	Ericameria laricifolia Turpentine Bush		Muhlenbergia emersleyi Bullgrass
	Justicia californica Chuparosa		Muhlenbergia rigens Deer Grass
	Larrea tridentata Creosote Bush		
	Simmondsia chinensis Jojoba		
	Sphaeralcea ambigua Desert Globemallow		

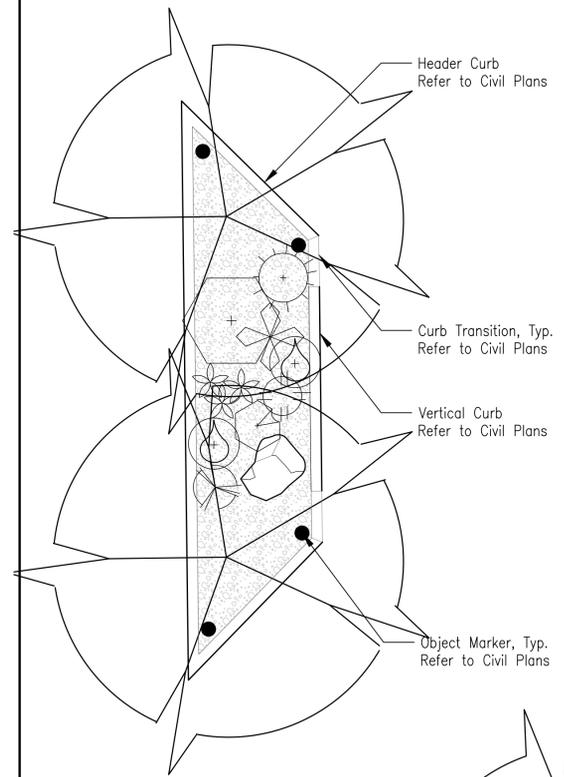
HARDSCAPE SCHEDULE	
SYMBOL	DESCRIPTION
	2' x 2' Boulder
	3' x 3' Boulder
	Desert Cobble
	Grouted Rip Rap
	Decorative Concrete (Exposed Aggregate)

LP3-02 of LP3-07

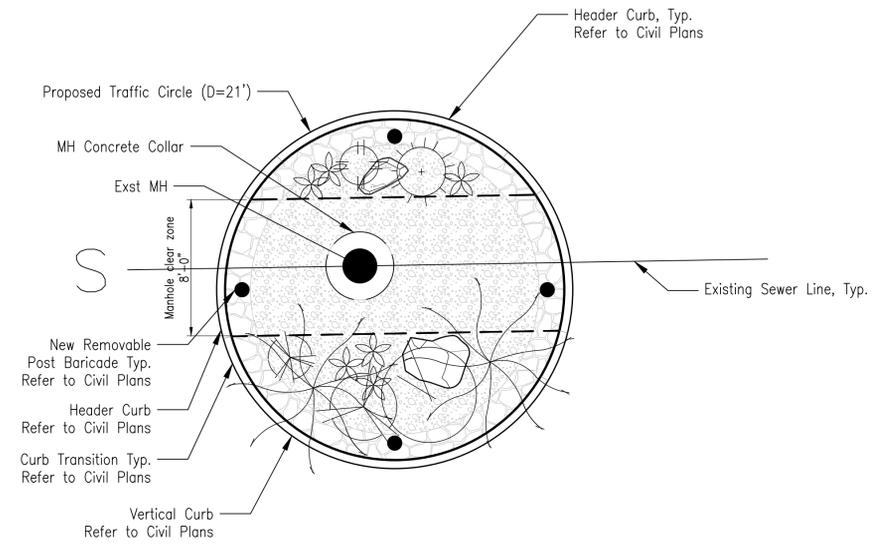
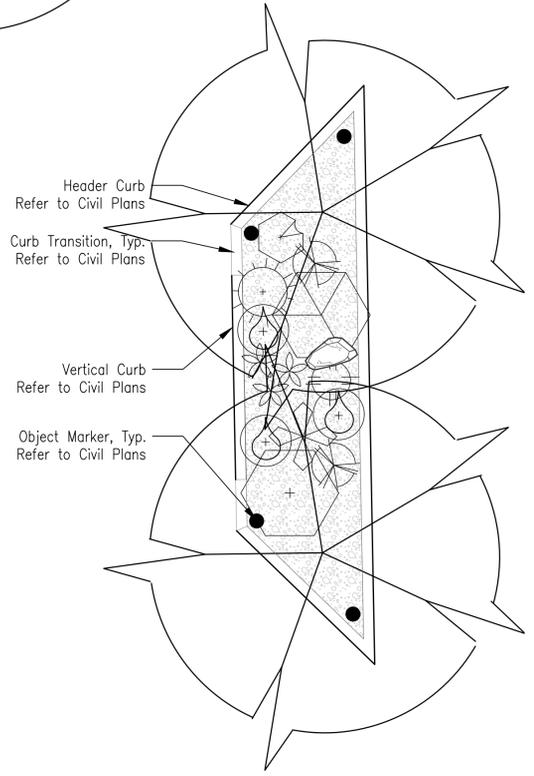
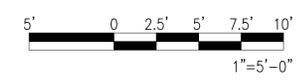
WHEAT DESIGN GROUP LANDSCAPE ARCHITECTS 500 N. TUCSON BLVD, SUITE 150 TUCSON ARIZONA 85714 T: 520.884.7911		CITY OF TUCSON	DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION 9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS SAINT MARYS RD TO FORT LOWELL RD, EUCLID AVE TO 6TH AVE, AND 4TH AVE TO TREAT AVE Landscape Plan		
PRELIMINARY 60% REVIEW NOT FOR CONSTRUCTION OR RECORDING		APPROVALS: _____ SIGNATORY: _____ DATE: _____ APPROVED: _____ 20____ OF _____ TRANSPORTATION DIRECTOR REF: _____ SCALE: _____ PLAN NO. U-2022-006	DRWN. BY: _____ 20____ DSGN. BY: _____ 20____ CHKD. BY: _____ 20____		
NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.



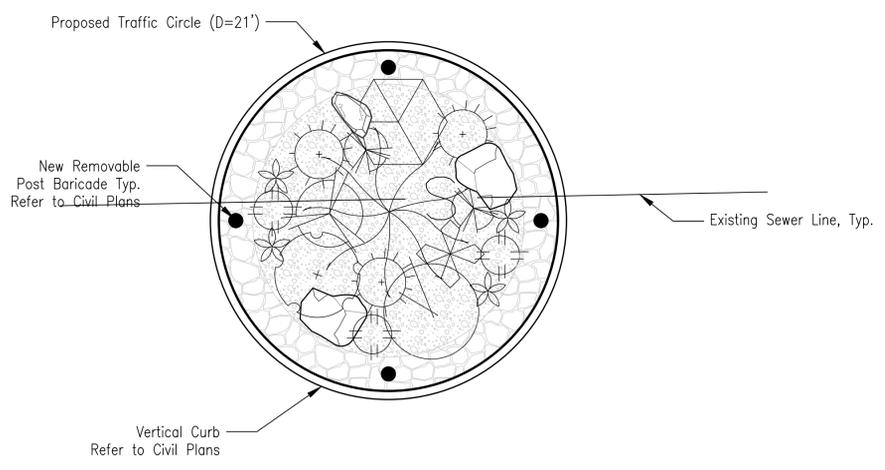
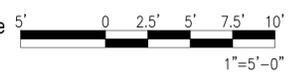
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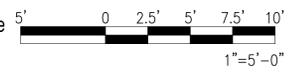
07 Chicanes at 9th Avenue between Saguaro Street and Rillito Street



08 Traffic circle at 9th Avenue and Ventura Street



09 Traffic circle at 9th Avenue and Lester Street



PLANT SCHEDULE	
TREES	BOTANICAL / COMMON NAME
	<i>Chilopsis linearis</i> `AZT Dora`s Desert Rose` TM Desert Willow
	<i>Olneya tesota</i> Desert Ironwood

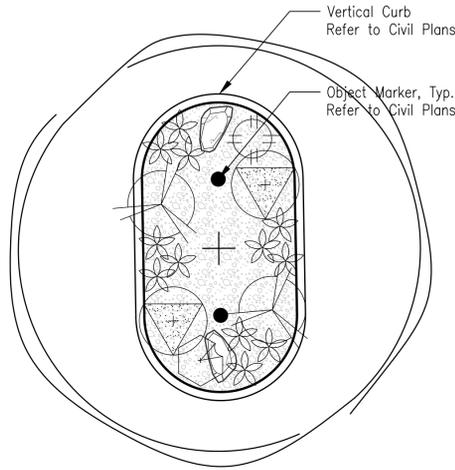
SHRUBS	BOTANICAL / COMMON NAME	CACTI	BOTANICAL / COMMON NAME
	<i>Asclepias subulata</i> Desert Milkweed		<i>Ferocactus wislizenii</i> Fish Hook Barrel Cactus
	<i>Calliandra eriophylla</i> Sonoran Fairy Duster		<i>Fouquieria splendens</i> Ocotillo
	<i>Dalea frutescens</i> Black Dalea		<i>Opuntia santa-rita</i> Santa Rita Prickly Pear
	<i>Dasylirion wheeleri</i> Desert Spoon	GRASSES BOTANICAL / COMMON NAME	
	<i>Ericameria laricifolia</i> Turpentine Bush		
	<i>Justicia californica</i> Chuparosa		<i>Muhlenbergia emersleyi</i> Bullgrass
	<i>Larrea tridentata</i> Creosote Bush		<i>Muhlenbergia rigens</i> Deer Grass
	<i>Simmondsia chinensis</i> Jojoba	HARDSCAPE SCHEDULE	
	<i>Sphaeralcea ambigua</i> Desert Globemallow		

SYMBOL	DESCRIPTION
	2' x 2' Boulder
	3' x 3' Boulder
	Desert Cobble
	Grouted Rip Rap
	Decorative Concrete (Exposed Aggregate)

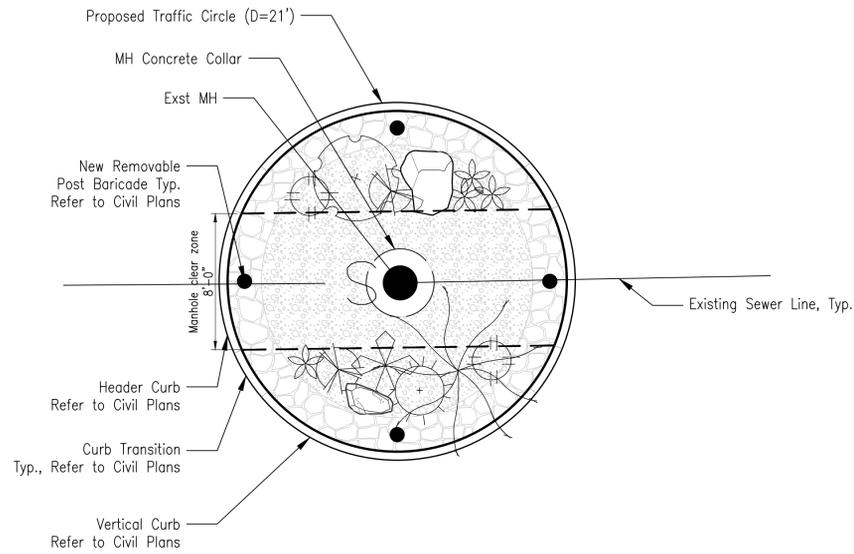
LP3-03 of LP3-07

WHEAT DESIGN GROUP LANDSCAPE ARCHITECTS 500 N. TUCSON BLVD, SUITE 150 TUCSON ARIZONA 85714 T: 520 884 7911			DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION 9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS SAINT MARYS RD TO FORT LOWELL RD, EUCLID AVE TO 6TH AVE, AND 4TH AVE TO TREAT AVE Landscape Plan					
PRELIMINARY 60% REVIEW NOT FOR CONSTRUCTION OR RECORDING		APPROVALS SIGNATORY DATE _____ _____ _____	APPROVED _____ 20____ OF _____ TRANSPORTATION DIRECTOR REF: _____ SCALE: _____ PLAN NO. U-2022-006					
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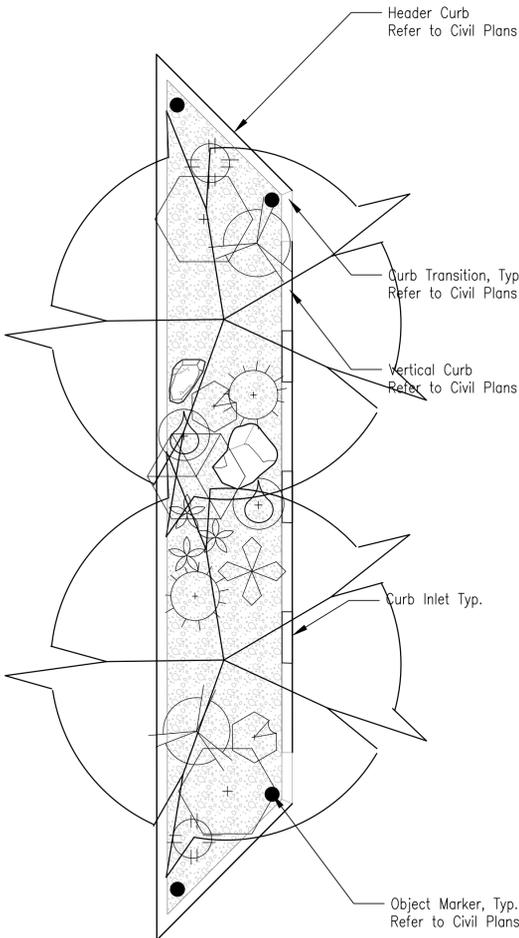




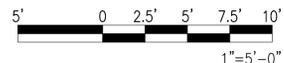
10 Center island at 9th Avenue between Lee Street and Adams Street



12 Traffic circle at 9th Avenue between 4th Street and 5th Street



11 Chicane at 9th Avenue between Lee Street and Adams Street



PLANT SCHEDULE	
TREES	BOTANICAL / COMMON NAME
	<i>Chilopsis linearis</i> 'AZT Dora's Desert Rose'™ Desert Willow
	<i>Olneya tesota</i> Desert Ironwood

SHRUBS	BOTANICAL / COMMON NAME
	<i>Asclepias subulata</i> Desert Milkweed
	<i>Calliandra eriophylla</i> Sonoran Fairy Duster
	<i>Dalea frutescens</i> Black Dalea
	<i>Dasylirion wheeleri</i> Desert Spoon
	<i>Ericameria laricifolia</i> Turpentine Bush
	<i>Justicia californica</i> Chuparosa
	<i>Larrea tridentata</i> Creosote Bush
	<i>Simmondsia chinensis</i> Jojoba
	<i>Sphaeralcea ambigua</i> Desert Globemallow

CACTI	BOTANICAL / COMMON NAME
	<i>Ferocactus wislizenii</i> Fish Hook Barrel Cactus
	<i>Fouquieria splendens</i> Ocotillo
	<i>Opuntia santa-rita</i> Santa Rita Prickly Pear

GRASSES	BOTANICAL / COMMON NAME
	<i>Muhlenbergia emersleyi</i> Bullgrass
	<i>Muhlenbergia rigens</i> Deer Grass

HARDSCAPE SCHEDULE	
SYMBOL	DESCRIPTION
	2' x 2' Boulder
	3' x 3' Boulder
	Desert Cobble
	Grouted Rip Rap
	Decorative Concrete (Exposed Aggregate)

LP3-04 of LP3-07

WHEAT DESIGN GROUP
LANDSCAPE ARCHITECTS
500 N. TUCSON BLVD., SUITE 150
TUCSON, ARIZONA 85716
T: 520.884.7911



DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
SAINT MARYS RD TO FORT LOWELL RD, EUCLID AVE TO 6TH AVE, AND 4TH AVE TO TREAT AVE
Landscape Plan

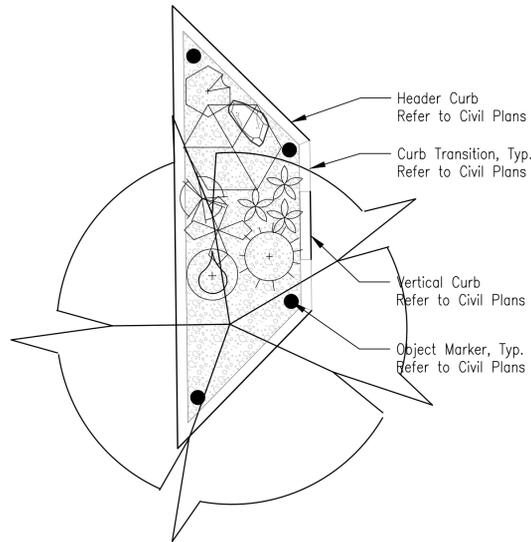
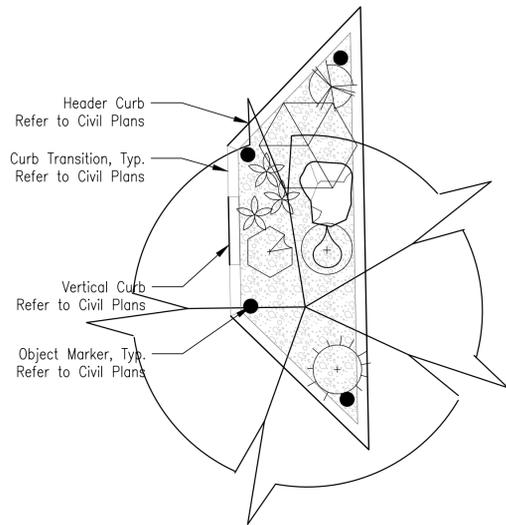
NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.

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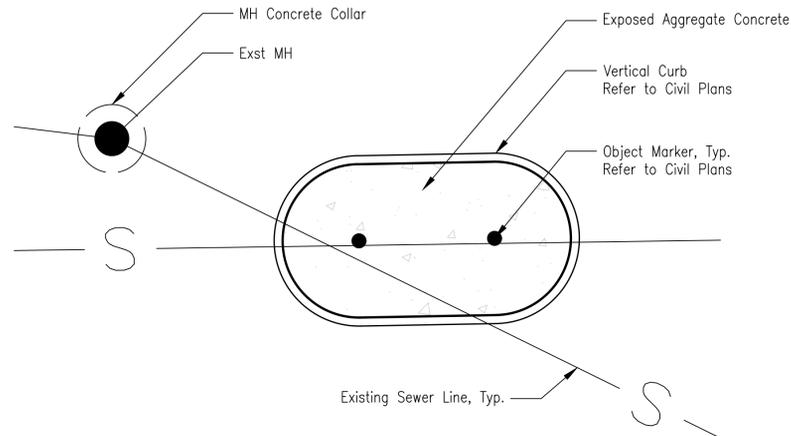
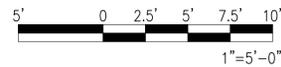
APPROVALS	SIGNATORY	DATE

APPROVED _____ 20__	56
	OF
	59
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DRWN. BY _____ 20__	
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CHKD. BY _____ 20__	
PLAN NO. U-2022-006	

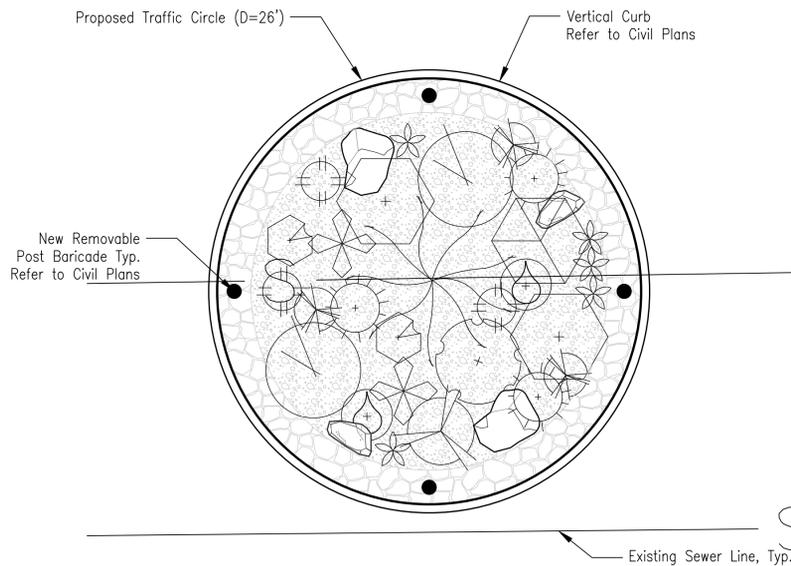
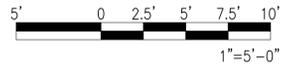




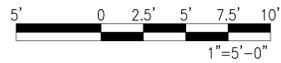
13 Chicanes at 9th Avenue between Olsen Avenue and Wilson Boulevard



14 Center island at 5th Street between 5th Avenue and 4th Avenue



15 Traffic circle at 5th Street and 3rd Avenue



PLANT SCHEDULE	
TREES	BOTANICAL / COMMON NAME
	<i>Chilopsis linearis</i> 'AZT Dora's Desert Rose'™ Desert Willow
	<i>Olneya tesota</i> Desert Ironwood

SHRUBS	BOTANICAL / COMMON NAME	CACTI	BOTANICAL / COMMON NAME
	<i>Asclepias subulata</i> Desert Milkweed		<i>Ferocactus wislizenii</i> Fish Hook Barrel Cactus
	<i>Calliandra eriophylla</i> Sonoran Fairy Duster		<i>Fouquieria splendens</i> Ocotillo
	<i>Dalea frutescens</i> Black Dalea		<i>Opuntia santa-rita</i> Santa Rita Prickly Pear
	<i>Dasylirion wheeleri</i> Desert Spoon	GRASSES BOTANICAL / COMMON NAME	
	<i>Ericameria laricifolia</i> Turpentine Bush		<i>Muhlenbergia emersleyi</i> Bullgrass
	<i>Justicia californica</i> Chuparosa		<i>Muhlenbergia rigens</i> Deer Grass
	<i>Larrea tridentata</i> Creosote Bush		
	<i>Simmondsia chinensis</i> Jojoba		
	<i>Sphaeralcea ambigua</i> Desert Globemallow		

HARDSCAPE SCHEDULE	
SYMBOL	DESCRIPTION
	2' x 2' Boulder
	3' x 3' Boulder
	Desert Cobble
	Grouted Rip Rap
	Decorative Concrete (Exposed Aggregate)

LP3-05 of LP3-07

WHEAT DESIGN GROUP
LANDSCAPE ARCHITECTS
500 N. TUCSON BLVD., SUITE 150
TUCSON ARIZONA 85714
T: 520 884 7911



DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
SAINT MARYS RD TO FORT LOWELL RD, EUCLID AVE TO 6TH AVE, AND 4TH AVE TO TREAT AVE
Landscape Plan

NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.

PRELIMINARY
60%
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CONSTRUCTION
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APPROVALS	SIGNATORY	DATE	APPROVED	OF

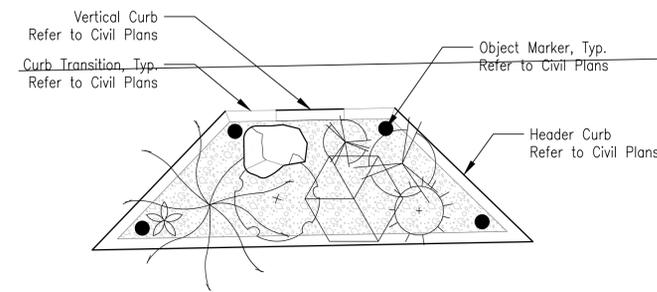
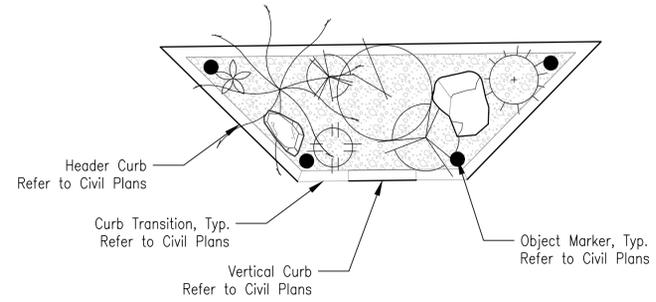
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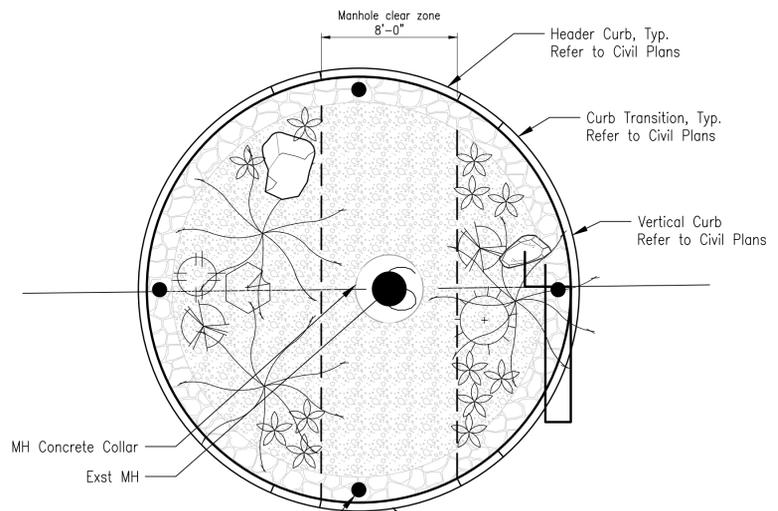
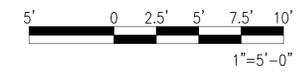
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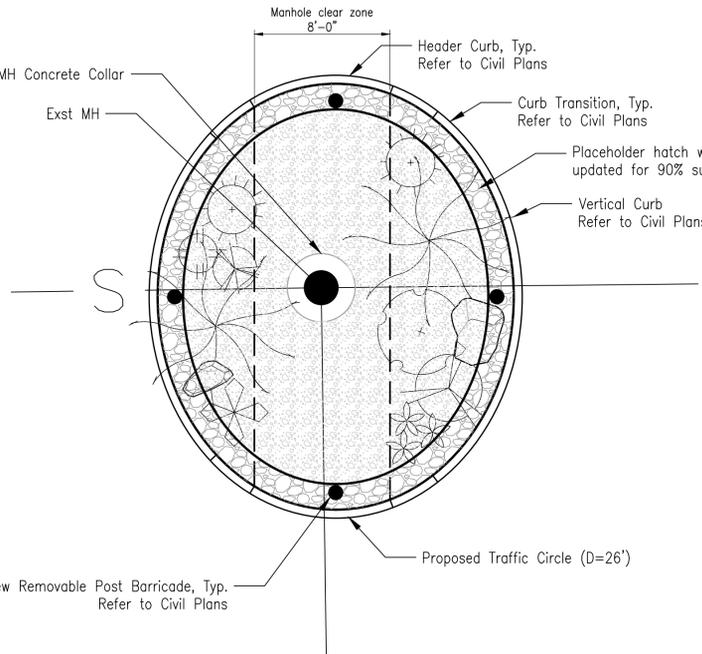
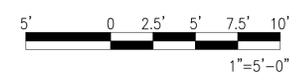
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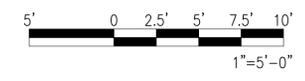
16A Chicanes at 5th Street between 2nd Avenue and 1st Avenue



16B Traffic circle at 9th Street and First Ave



17 Center island at 9th Street and Park Avenue



PLANT SCHEDULE	
TREES	BOTANICAL / COMMON NAME
	Chilopsis linearis 'AZT Dora's Desert Rose' TM Desert Willow
	Olneya tesota Desert Ironwood

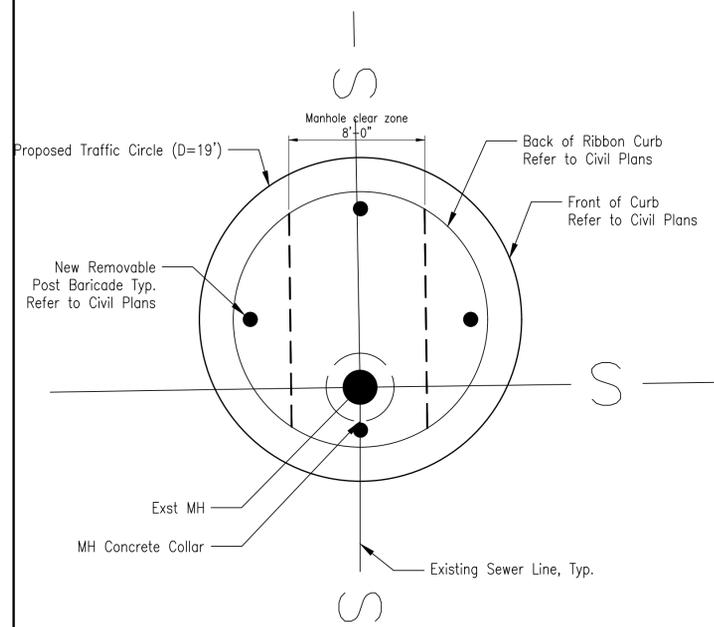
SHRUBS	BOTANICAL / COMMON NAME	CACTI	BOTANICAL / COMMON NAME
	Asclepias subulata Desert Milkweed		Ferocactus wislizenii Fish Hook Barrel Cactus
	Calliandra eriophylla Sonoran Fairy Duster		Fouquieria splendens Ocotillo
	Dalea frutescens Black Dalea		Opuntia santa-rita Santa Rita Prickly Pear
	Dasylirion wheeleri Desert Spoon	GRASSES BOTANICAL / COMMON NAME	
	Ericameria laricifolia Turpentine Bush		Muhlenbergia emersleyi Bullgrass
	Justicia californica Chuparosa		Muhlenbergia rigens Deer Grass
	Larrea tridentata Creosote Bush		
	Simmondsia chinensis Jojoba		
	Sphaeralcea ambigua Desert Globemallow		

HARDSCAPE SCHEDULE	
SYMBOL	DESCRIPTION
	2' x 2' Boulder
	3' x 3' Boulder
	Desert Cobble
	Grouted Rip Rap
	Decorative Concrete (Exposed Aggregate)

LP3-06 of LP3-07

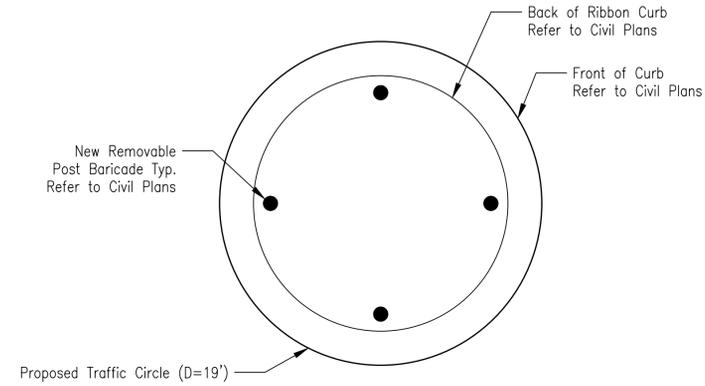
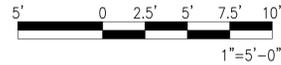
WHEAT DESIGN GROUP LANDSCAPE ARCHITECTS 500 N. TUCSON BLVD, SUITE 150 TUCSON ARIZONA 85714 T: 520 884 7911		 CITY OF TUCSON	DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION 9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS SAINT MARYS RD TO FORT LOWELL RD, EUCLID AVE TO 6TH AVE, AND 4TH AVE TO TREAT AVE Landscape Plan					
PRELIMINARY 60% REVIEW NOT FOR CONSTRUCTION OR RECORDING		APPROVALS: _____ DATE: _____ SIGNATORY: _____ DATE: _____ TRANSPORTATION DIRECTOR	APPROVED: _____ 20____ 58 OF _____ 59 REF: _____ SCALE: _____ PLAN NO. U-2022-006					
NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.	DRWN. BY _____ 20____	DSGN. BY _____ 20____	CHKD. BY _____ 20____

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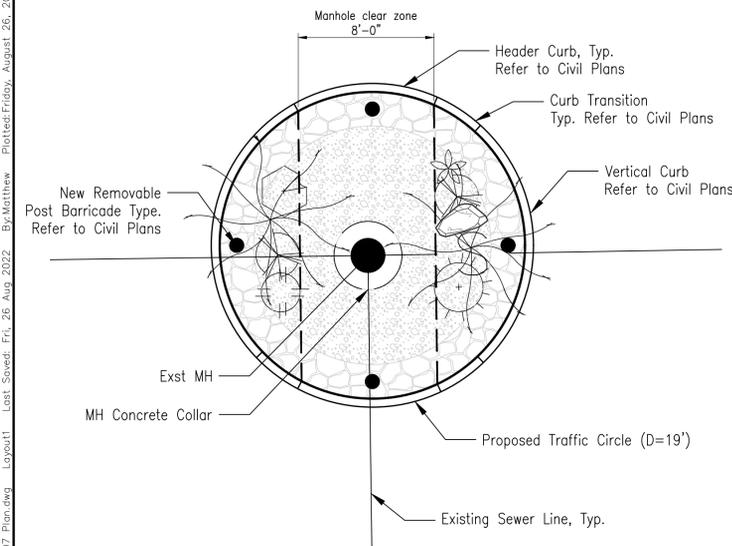
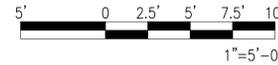
18 Traffic circle at 9th Street and Warren Avenue

Traffic circle to be paved.
Refer to Paved Hardscape Traffic Circle Detail, Sheet PL02-03.

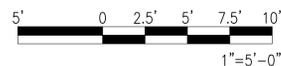


20 Traffic Circle at 7th Street and Plumer Avenue

Traffic circle to be paved.
Refer to Paved Hardscape Traffic Circle Detail, Sheet PL02-03.



19 Traffic circle at 9th Street and Norris Avenue



PLANT SCHEDULE	
TREES	BOTANICAL / COMMON NAME
	<i>Chilopsis linearis</i> 'AZT Dora's Desert Rose'™ Desert Willow
	<i>Olneya tesota</i> Desert Ironwood

SHRUBS	BOTANICAL / COMMON NAME	CACTI	BOTANICAL / COMMON NAME
	<i>Asclepias subulata</i> Desert Milkweed		<i>Ferocactus wislizenii</i> Fish Hook Barrel Cactus
	<i>Calliandra eriophylla</i> Sonoran Fairy Duster		<i>Fouquieria splendens</i> Ocotillo
	<i>Dalea frutescens</i> Black Dalea		<i>Opuntia santa-rita</i> Santa Rita Prickly Pear
	<i>Dasylirion wheeleri</i> Desert Spoon		
	<i>Ericameria laricifolia</i> Turpentine Bush	GRASSES	
	<i>Justicia californica</i> Chuparosa		<i>Muhlenbergia emersleyi</i> Bullgrass
	<i>Larrea tridentata</i> Creosote Bush		<i>Muhlenbergia rigens</i> Deer Grass
	<i>Simmondsia chinensis</i> Jojoba		
	<i>Sphaeralcea ambigua</i> Desert Globemallow		

HARDSCAPE SCHEDULE	
SYMBOL	DESCRIPTION
	2' x 2' Boulder
	3' x 3' Boulder
	Desert Cobble
	Grouted Rip Rap
	Decorative Concrete (Exposed Aggregate)

LP3-07 of LP3-07

WHEAT DESIGN GROUP
LANDSCAPE ARCHITECTS
500 N. TUCSON BLVD, SUITE 150
TUCSON ARIZONA 85714
T: 520.884.7911



DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION
9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS
SAINT MARYS RD TO FORT LOWELL RD, EUCLID AVE TO 6TH AVE, AND 4TH AVE TO TREAT AVE
Landscape Plan

NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.

PRELIMINARY
60%
REVIEW
NOT FOR
CONSTRUCTION
OR RECORDING

APPROVALS	SIGNATORY	DATE

APPROVED _____ 20__	59
	OF
	59
TRANSPORTATION DIRECTOR	
REF. _____ SCALE: _____	
DRWN. BY _____ 20__	
DSGN. BY _____ 20__	
CHKD. BY _____ 20__	
PLAN NO. U-2022-006	



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