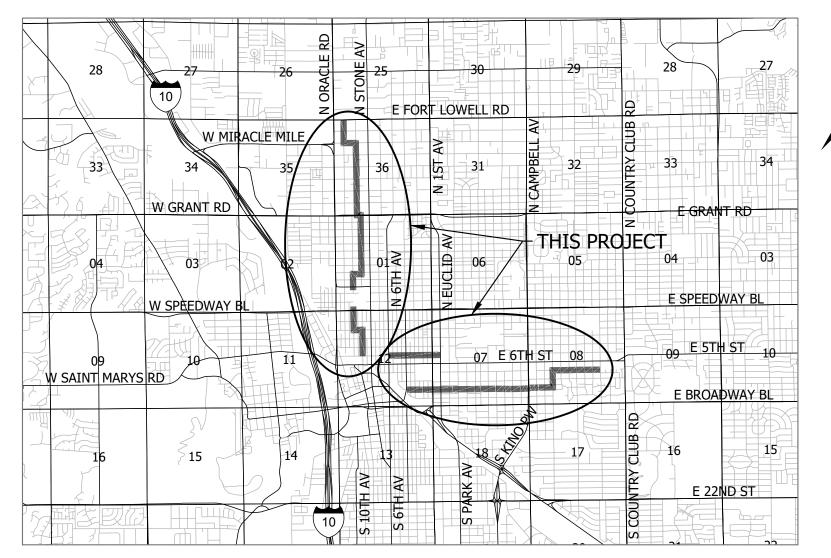
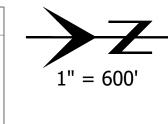


CITY OF TUCSON, ARIZONA 9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS

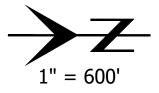
SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE ROADWAY IMPROVEMENTS C.O.T. JOB NO.



LOCATION MAP SCALE: 1" = 1 MILE Section 36, T13S, R13E Sections 1 & 12, T14S, R13E Sections 7 & 8, T14S, R14E G & SR B&M



1" = 600'



Area reserved for "Record Document" block.

Constructed by:

Construction Company

Completion Date

Red-Lines by:

Construction Administrator Name & Company

Completion Date

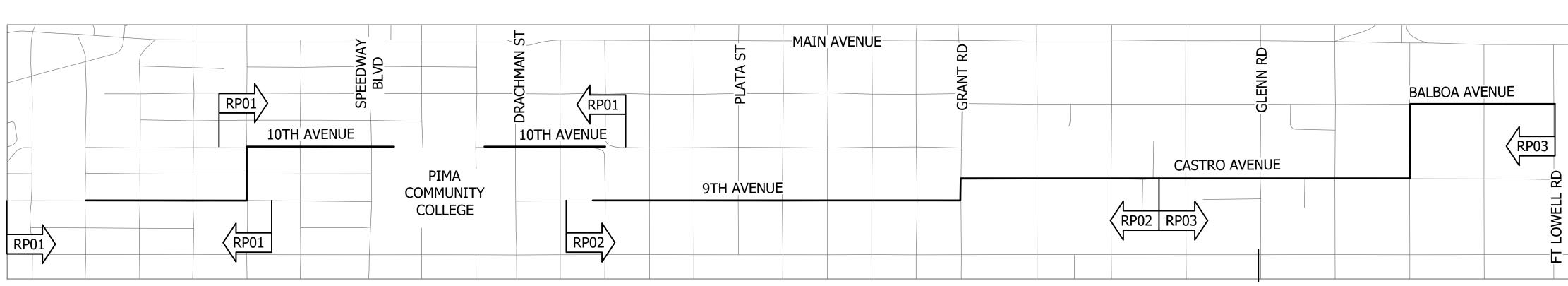
Record Document by:

As-Built Designer Name & Company

Completion Date

ORIGINAL SIZE 24"x36" DO NOT SCALE A REDUCED SIZE

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INDEX OF SHEETS

Page No.	Sheet No.	Sheet Description
1	CV01	Cover Sheet
2 - 3	NT01 - NT02	General Notes Sheets
4 - 12	DT01 - DT09	Civil Details Sheets
13	HZ01	Horizontal Control Sheet
14 - 19	RP01 - RP06	Bike Blvd Roadway Plan Sheets
20 - 25	WF01 - WF06	Bike Blvd Wayfinding Sign Sheets
26 - 31	SS01 - SS06	Bike Blvd Signing and Marking Sheets
32 - 42	SG01 - SG11	Intersection Signing and Marking Sheets
43	SM01	Sign Summary Sheets
46 - 47	TS01 - TS04	Traffic Signal Plan Sheets
48 - 59	LP01 - LP12	Landscaping Plans

GENERAL NOTES

- 1. 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).
- 2. Right-of-way encroachments shall be removed by the contractor as directed by the Engineer.
- 3. 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.
- 4. The contractor shall comply with all applicable occupational safety and health administration regulations, in particular, shoring of trenches.
- 5. The contractor shall obtain all permits required by governmental agencies.
- 6. 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.
- 7. The contractor is responsible for complying with all regulations and requests by the Engineer regarding dust pollution.
- 8. 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.
- 9. 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.
- 10. Access shall be maintained to all businesses, residences, and side streets at all times except when approved by the Engineer.
- 11. 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.
- 12. 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.
- 13. 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.
- 14. 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.
- 15. 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.
- 16. 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.
- 17. 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

• Nail (As Noted)

,

Pima County Geodetic Control Point

Remove Pavement

Survey Monument

→ Water Meter

∀ Fire Hydrant

Gas Meter

Utility Pole

Utility Pole w/riser

↓ Guy Wire

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

——OHT—— Overhead Utilities

——×—— Fence Line

—— SD — Existing Storm Drain Pipe

—— G—— Gas Line

——FO — Fiber Optic

—— s-6" — 6" Sewer

—— w-6" — 6" Water

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

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RWRD SANITARY SEWER GENERAL NOTES

- 1. ALL DESIGN STANDARDS, MATERIALS AND WORKMANSHIP FOR PUBLIC SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT(PCRWRD) ENGINEERING DESIGN STANDARDS 2022 (EDS 2022) AND THE STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2022 (SSDC 2022). SAID DOCUMENTS ARE AVAILABLE THROUGH THE PCRWRD WEBSITE (www.pima.gov/wastewaterreclamation).
- 2. THE CONTRACTOR SHALL CONTACT "ARIZONA 811" (DIAL 811 OR 1-800-782-5348) A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL KEEP ALL UNDERGROUND FACILITY LOCATION REQUESTS UP-TO-DATE AND COMPLY WITH ARIZONA REVISED STATUTES (A.R.S.), TITLE 40, CHAPTER 1, ARTICLE 6.3, SECTION 40-360.22. CONCERNS REGARDING THE ACCURACY BETWEEN THE UNDERGROUND FACILITY MARKINGS AND THE PROJECT PLANS SHALL BE IMMEDIATELY REPORTED TO THE DESIGN ENGINEER.
- 3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER MANHOLES AT ALL TIMES.
- 4. ANY HOUSE CONNECTION SEWER (HCS) OR BUSINESS CONNECTION SEWER (BCS) LINES ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED, REPAIRED, OR REROUTED, AS THE SITUATION DICTATES, PER PCRWRD SSDC 2016 DETAIL NO. RWRD 400 AND AT NO EXPENSE TO THE PROPERTY OWNER OR PCRWRD. HCS AND BCS LINES ARE NOT OWNED OR MAINTAINED BY PCRWRD. PRIVATE CONNECTION SEWERS CONSTRUCTED PRIOR TO JANUARY 2006 ARE NOT REQUIRED TO BE LOCATED AND MARKED.
- 5. IMMEDIATELY REPORT ANY OF THE FOLLOWING TO THE PCRWRD OPERATIONS CONTROL CENTER (OCC) AT (520) 724-6500: ANY RELEASE OF SEWAGE, ANY DAMAGE TO THE PUBLIC SANITARY SEWER SYSTEM, OR THE DROPPING OF DEBRIS INTO A PUBLIC SANITARY SEWER MANHOLE. A PCRWRD REPRESENTATIVE WILL BE DISPATCHED TO THE SITE. THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO CONTAIN A SANITARY SEWAGE OVERFLOW (SSO). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPAIR THE SYSTEM, MITIGATE THE RELEASE OF SEWAGE, DISINFECT THE RELEASE AREAS, AND ANY REGULATORY PENALTIES LEVIED ON PCRWRD FOR SEWAGE ENTERING A NATURAL DRAINAGE WAY OR STORM WATER DRAINAGE SYSTEM. THE CONTRACTOR SHALL REPAIR ALL DAMAGE AS DIRECTED AND APPROVED BY THE PCRWRD FIELD REPRESENTATIVE.
- 6. MODIFICATION TO OR ADJUSTMENT OF EXISTING PIMA COUNTY SEWER FACILITIES SHALL NOT COMMENCE UNTIL: (A) THE CONTRACTOR HAS OBTAINED A PCRWRD PUBLIC SEWER CONSTRUCTION PERMIT (CONTACT THE PCRWRD PERMITS SECTION AT (520) 724-6649 FOR PERMIT APPLICATION REQUIREMENTS); (B) THE CONTRACTOR'S FLOW MANAGEMENT PLAN HAS BEEN SUBMITTED THIRTY (30) CALENDAR DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING AND APPROVED BY PCRWRD FIELD ENGINEERING; AND (C) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT FIELD INSPECTOR IS SCHEDULED AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO COMMENCING WITH SEWER CONSTRUCTION.
- 7. THE CONTRACTOR SHALL ADJUST OR RECONSTRUCT ALL SANITARY SEWER MANHOLES TO FINISHED GRADE. ALL FRAMES AND COVER ADJUSTMENTS SHALL BE IN ACCORDANCE WITH PCRWRD SSDC 2016, DETAIL NOS. RWRD 211, 212, 304 OR 305 (AS APPLICABLE). THE CONTRACTOR SHALL PROTECT THE BENCH AND FLOW CHANNELS WITH A COVER PER PCRWRD SSDC 2016, DETAIL NO. RWRD 306. PRIOR TO COMMENCING ANY WORK TO THE MANHOLE AND REMOVE THE COVER AFTER ALL WORK IS COMPLETED. THE CONTRACTOR SHALL ENSURE THAT FRAMES AND COVERS ARE CLEAN AND FREE FROM ANY AND ALL ATTACHED MATERIALS (ASPHALT, CONCRETE, ETC.) AND THAT ALL VENT HOLES ARE OPEN AND CLEAR OF OBSTRUCTIONS, AS APPROVED BY THE PCRWRD FIELD ENGINEER. EXISTING FRAMES AND/OR COVERS THAT ARE DAMAGED OR CANNOT BE COMPLETELY CLEANED SHALL BE REPLACED WITH A NEW FRAME AND COVER IN ACCORDANCE WITH PCRWRD SSDC 2016, DETAIL NO. RWRD 213 218. COSTS ASSOCIATED WITH EXISTING FRAMES AND COVERS THAT ARE LOST OR DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 8. THE CONTRACTOR SHALL SUBMIT A FLOW MANAGEMENT PLAN (FMP) TO PCRWRD FIELD ENGINEERING FOR APPROVAL BEFORE PROCEEDING WITH ANY WORK THAT MAY AFFECT LIVE SEWERS. THE FMP SHALL IDENTIFY AND INCLUDE ALL FLOW MANAGEMENT COSTS IN THE CONSTRUCTION BID. THE FMP SHALL BE SUBMITTED THIRTY (30) CALENDAR DAYS PRIOR TO THE SEWER PRE-CONSTRUCTION MEETING. FIELD ENGINEERING WILL REVIEW THE FMP WITHIN TEN (10) BUSINESS DAYS TO ACCOMMODATE REVIEW AND REVISION CYCLES. REFER TO PCRWRD SSDC 2016, SECTION 2 FOR FMP REQUIREMENTS. PLEASE CONTACT PCRWRD FIELD ENGINEERING AT (520) 724-2651 FOR ANY QUESTIONS REGARDING FLOW MANAGEMENT.
- 9. STORM WATER AND SEDIMENT CONTROL MEASURES SHALL BE PROPERLY INSTALLED TO PROTECT PCRWRD MANHOLES AT THE BEGINNING OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONSTANTLY MAINTAIN STORM WATER AND SEDIMENT CONTROL MEASURES THAT PROTECT PCRWRD FACILITIES UNDER ALL CONDITIONS FOR THE DURATION OF THE PROJECT. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR ALLOW STORM WATER, SEDIMENT, OR POTENTIAL POLLUTANTS FROM A CONSTRUCTION SITE TO ENTER A PCRWRD MANHOLE. THE CONTRACTOR SHALL ENSURE THAT THEIR FLOW MANAGEMENT OPERATIONS INCLUDE CONTROLS TO PREVENT ANY INTRODUCTION OF STORM WATER, SEDIMENT, OR POLLUTANTS INTO THE PUBLIC SANITARY SEWER SYSTEM. FAILURE TO CONFORM TO THESE REQUIREMENTS SHALL RESULT IN CANCELLATION OF THE SEWER CONSTRUCTION PERMIT.

RWRD SANITARY SEWER GENERAL NOTES (CONTINUED)

- 10. PRIOR TO THE PRECONSTRUCTION MEETING WITH PCRWRD, THE CONTRACTOR SHALL IDENTIFY ALL EXISTING SANITARY SEWER MANHOLE COVERS HAVING FOREIGN MATERIALS ATTACHED. FOREIGN MATERIALS SHALL BE REMOVED FROM THE EXISTING MANHOLE COVERS REGARDLESS OF EXISTING OR NEW CONDITIONS. IF BUILD-UP IS TOO HEAVY TO BE REMOVED, THE CONTRACTOR SHALL REPLACE THE MANHOLE FRAME AND COVER AND SALVAGED ITEMS SHALL BE DELIVERED TO PIMA COUNTY CONVEYANCE AT 3355 N. DODGE BLVD., TUCSON, AZ. THE CONTRACTOR SHALL COORDINATE WITH THE PCRWRD INSPECTOR TO SCHEDULE A TIME TO DELIVER THE SALVAGED FRAMES AND COVERS. AFTER THE COMPLETION OF PAVEMENT WORK, THE CONTACTOR SHALL VERIFY THAT ALL SANITARY SEWER MANHOLE COVERS AND PICK HOLES ARE CLEAN AND FREE OF ANY CONSTRUCTION MATERIALS, DEBRIS, AND/OR OBSTRUCTIONS.
- 11. ANY WORK INSIDE OR AROUND AN EXISTING SANITARY SEWER MANHOLE, INCLUDING MANHOLES THAT ARE LOCATED WITHIN THE ROUGH GRADING LIMITS FOR A PROJECT, SHALL BE PROTECTED FROM FALLING DEBRIS BY INSTALLING A TEMPORARY FLOW CHANNEL COVER PER PCRWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, STANDARD DETAIL RWRD-306. THE CONTRACTOR SHALL REMOVE ANY DEBRIS THAT ENTERS A MANHOLE DURING CONSTRUCTION. FAILURE BY THE CONTRACTOR TO PROMPTLY REMOVE DEBRIS FROM A MANHOLE SHALL RESULT IN PCRWRD TAKING CORRECTIVE ACTION THAT WILL THEN BE BILLED TO THE CONTRACTOR.
- 12. PRIOR TO COMMENCING WITH MANHOLE ADJUSTMENT WORK (I.E., REMOVAL OF THE MANHOLE FRAME AND COVER), THE CONTRACTOR SHALL VISUALLY INSPECT THE CONDITION OF THE MANHOLE FRAME, COVER, AND GRADE RINGS TO IDENTIFY ANY SPECIAL COATINGS, LININGS OR OTHER CONDITIONS THAT MAY REQUIRE ADDITIONAL WORK AND INSPECTION BY PCRWRD. IF SUCH CONDITIONS ARE IDENTIFIED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY FIELD ENGINEERING AT (520) 724-2651 FOR FURTHER DIRECTION.

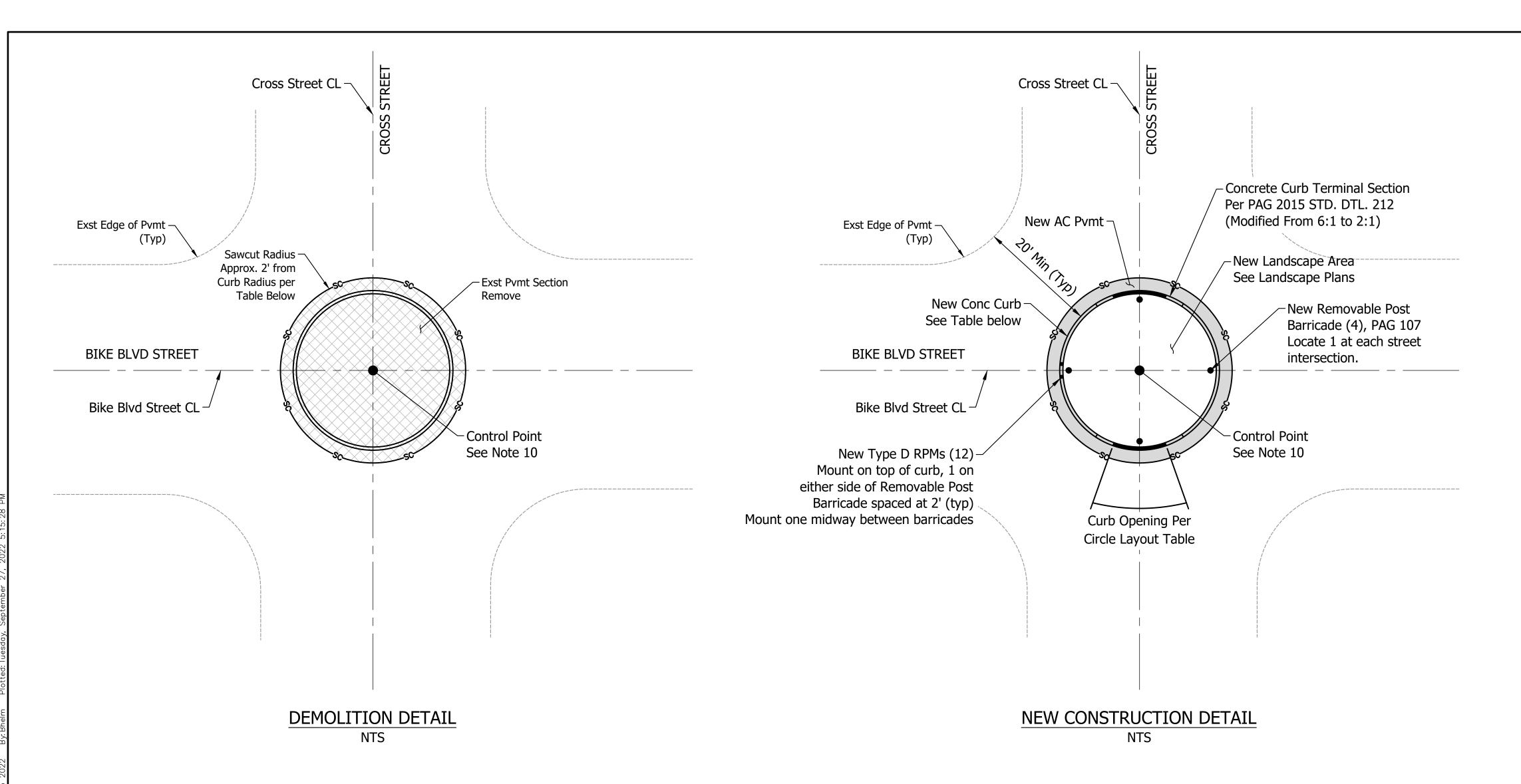
TUCSON WATER GENERAL NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PRESERVING AND PROTECTING ALL WATER FACILITIES DURING THE COURSE OF PERFORMING THE WORK ASSOCIATED WITH THIS PROJECT. THE LOCATION OF TUCSON WATER FACILITIES SHOWN ON THE PLANS ARE REPRESENTATIVE ONLY AND MAY NOT REFLECT THE ACTUAL LOCATION OF FACILITIES. TUCSON WATER RECOMMENDS POTHOLING TO CONFIRM EXACT LOCATION OF FACILITIES.
- 2. DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, ANY DAMAGE TO WATER FACILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE. IN THE EVENT OF ANY DAMAGE TO TUCSON WATER FACILITIES THE CONTRACTOR SHALL NOTIFY TUCSON WATER IMMEDIATELY AT 520-791-4133.
- 3. THE CONTRACTOR SHALL CONTACT TUCSON WATER AT 520-791-4133 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO WORKING IN THE VICINITY OF WATER MAINS 16" AND LARGER.
- 4. ALL CONSTRUCTION OPERATIONS SHALL MAINTAIN A MINIMUM OF TWO FEET (2') VERTICAL DISTANCE SEPARATION AND FIVE FEET (5') HORIZONTAL DISTANCE SEPARATION FROM ALL TUCSON WATER MAINS.
- 5. ALL CONSTRUCTION OPERATIONS SHALL MAINTAIN A MINIMUM OF FIVE FEET (5') HORIZONTAL DISTANCE SEPARATION BETWEEN EXISTING WATER MAINS AND FOUNDATIONS FOR TRAFFIC SIGNAL POLES AND SIGN POSTS.
- 6. PLEASE CONTACT TUCSON WATER CONSTRUCTION AT 520-791-2665 PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS TO COORDINATE ADJUSTMENT OF ANY TUCSON WATER VALVE BOX AND/OR WATER METER BOX.
- 7. PLEASE NOTE THE FOLLOWING CONTACT INFORMATION FOR UNFORESEEN IMPACTS TO TUCSON WATER FACILITIES DURING CONSTRUCTION. IF TUCSON WATER FACILITIES ARE DAMAGED DURING CONSTRUCTION, CONTACT TUCSON WATER'S EMERGENCY NUMBER IMMEDIATELY AT 520-791-4133. IF POTENTIAL CONFLICTS ARE DISCOVERED IN THE COURSE OF CONSTRUCTION THAT DO NOT REQUIRE EMERGENCY REPAIR, PLEASE CONTACT TUCSON WATER DISTRIBUTION DESIGN PROMPTLY AT 520-837-2127 AND SUBMIT PLANS FOR REVIEW.

NT02 OF *GATTE*

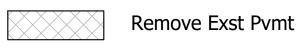
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Contact Arizona 811 at least two full working days before you begin excavation							REVIEW NOT FOR CONSTRUCTION	TRANSPORTATION DIRECTOR REF SCALE:
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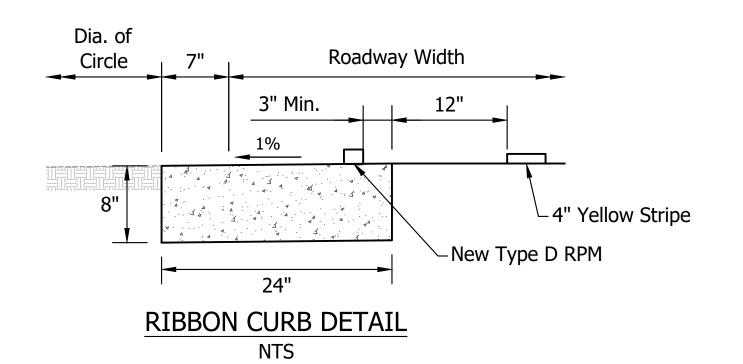


	TRAFFIC CIRCLES													
TC ##	Bike Blvd Street	Cross Street	Diameter ^A (FT)	Curb Type	Curb ^C Length (LF)	MH ID #	Survey ^E Monument	Curb ^F Opening (LF)						
1	10th Ave	Adams St	20	Vertical	50	8154-14	1	16						
2	9th Ave	Lester St	20	Vertical	66	N/A	1	N/A						
3	9th Ave	Ventura St	20	Vertical	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.
- 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.
- 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.





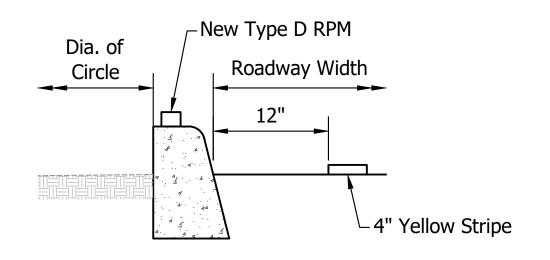


Ribbon Curb Notes:

- 1. Broom finish all surfaces.
- 2. Construction joint spacing 10' maximum.

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.
- 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.

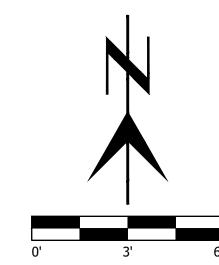


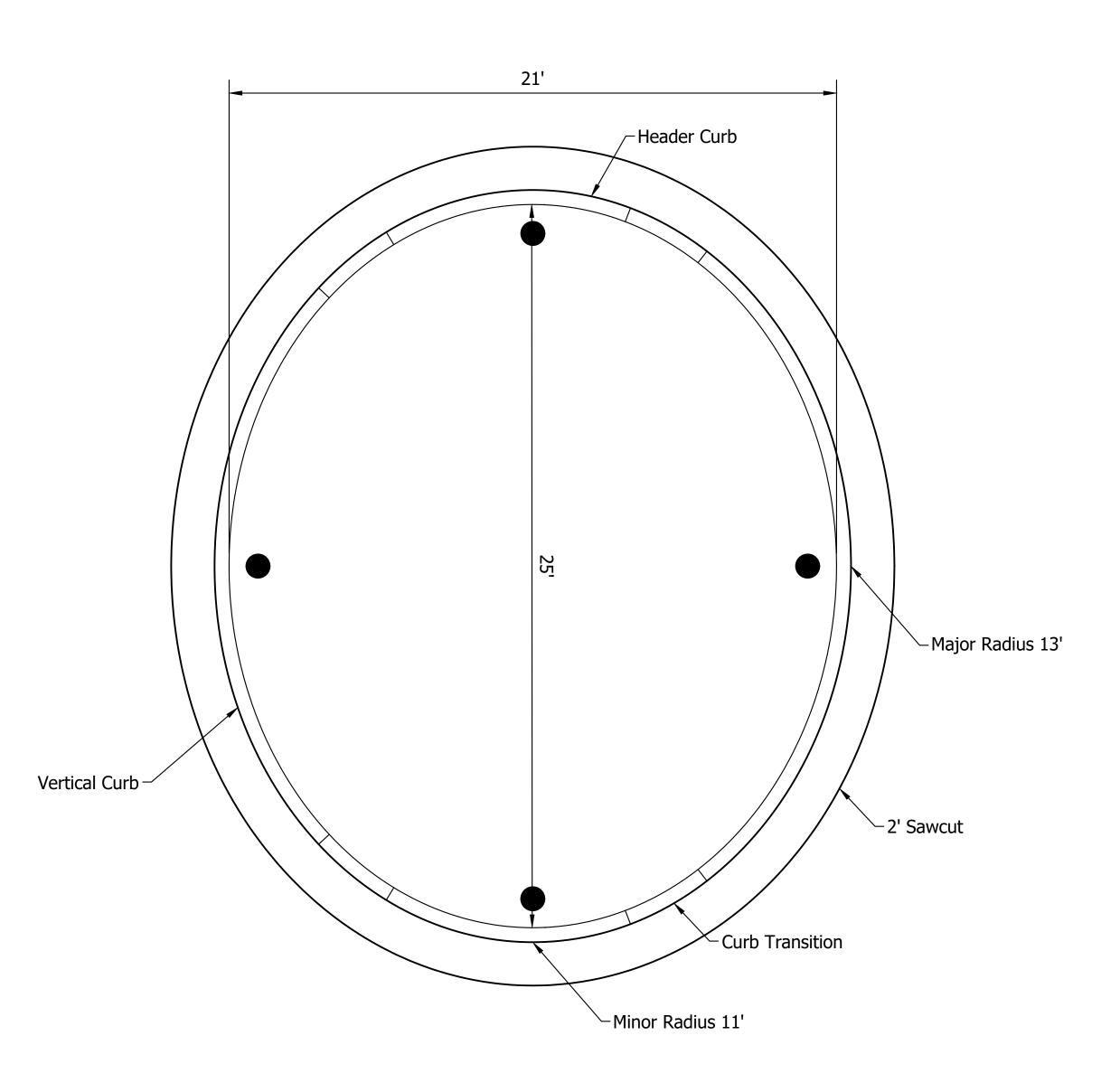
VERTICAL CURB DETAIL NTS



DT01 OF DT09

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							REVIEW				TRANSPORTATION DIRECTOR	59	
Contact Arizona 811 at least two full working days before you begin excavation							NOT FOR CONSTRUCTION				REF SCALE:		
Call 811 or click Arizona811.com	NO. DATE REVISION DESCRIPTION BY CHKD. APPR.		OR RECORDING	DRWN. BY BDH 20 22 DSGN. BY	BDH 20 22 CHKD. BY	3DH ₂₀ 22	PLAN NOU-2022-006	5					



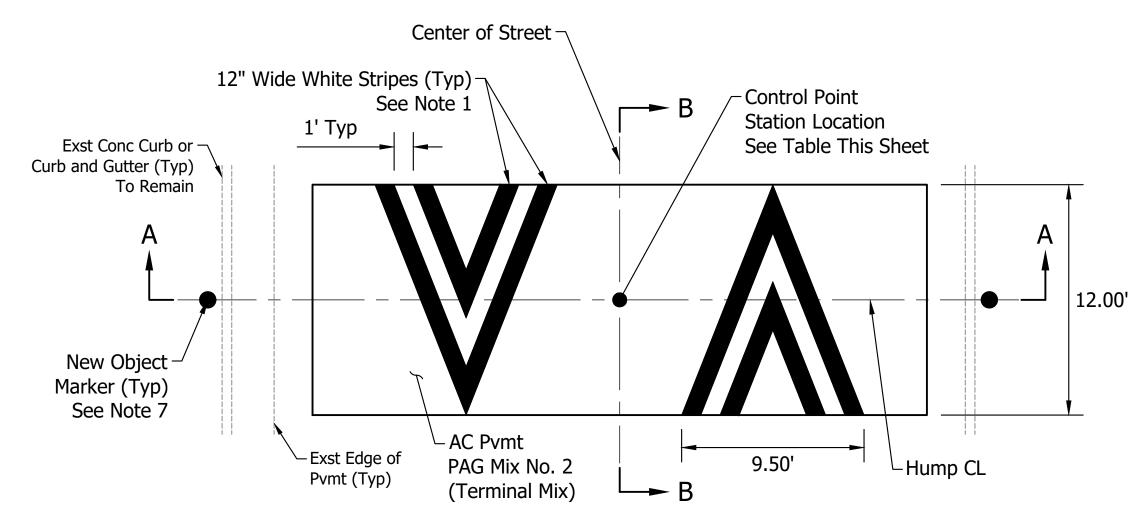


DETAIL A1

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

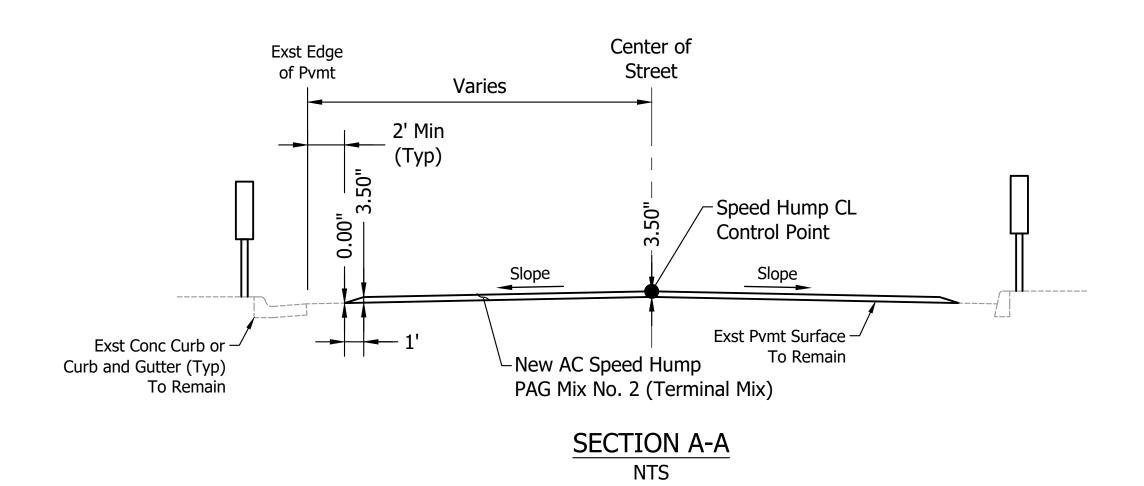
2 of 2 DT02 o⊧ DT09

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TYPE 1 - NORMAL CROWN OR MEDIAN DIVIDED STREET

NTS



-					17	2'
 - ₋ 1' (Ty		6'				Hump CL
-	1.99"	2.62"	3.11"	3.40"	3.50"	-Speed Hump CL Control Point
						Exst Pvmt Surface New AC Speed Hump PAG Mix No. 2 (Terminal Mix)
				S	ECTIO	ON 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.

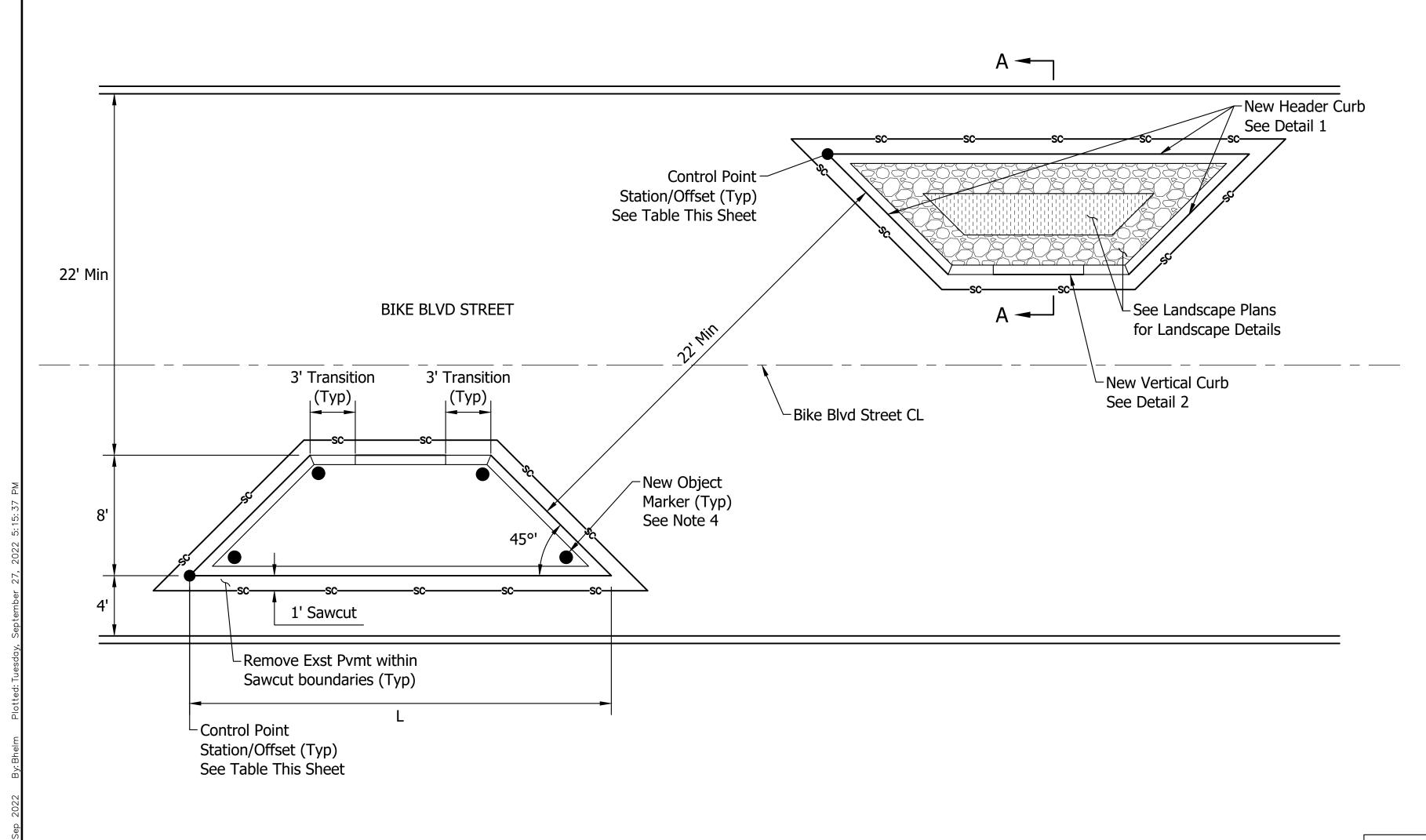
Notes

- 1. 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.
- 2. The types of speed humps shown in the table below and on the plan sheets my be modified per the direction of the Engineer depending on existing conditions. There will be no pay adjustment for the modification of type installed.
- 3. PAG Mix No. 2 (Terminal Mix) shall be used for asphaltic concrete speed hump(s).
- 4. Speed hump heights are provided as a maximum.
- 5. Center speed hump(s) within the roadway.
- 6. 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.
- 7. New Object Markers will be paid for under Item 7030010, Object Marker (OM2-2V) (All Direction).
- 8. Speed hump locations should be verified in the field to avoid conflicts with utilities and other roadway features.



DT03 OF DT09

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SECTION A-A

NTS

CURB INLET SPACING FOR 52' CHICANES

NTS

3' Curb

4' Exst Pvmt

-New Header Curb

See Detail 1

-See Landscape Plans

for Landscape Details

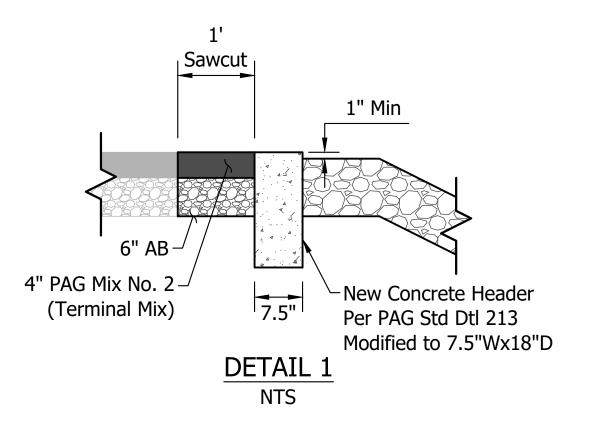
3' Transition

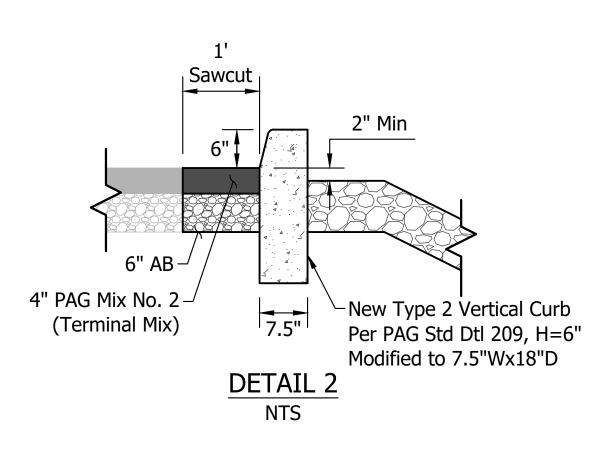
22' Min

New Vertical Curb

3' Transition

See Detail 2





Notes

- 1. Removal of existing pavement will be paid for under Item 2020029 Removal of Bituminous Pavement. Sawcutting will be considered incidental to the removal cost.
- 2. Curb shall be concrete vertical curb or header curb. Vertical curb shall be Type 2, modified to be 7.5" wide at the base. Refer to PAG Std Dtl 209. Header curb shall be modified to be 7.5" wide. Refer to PAG Std Dtl 213. Vertical curb and curb transitions shall be paid for under Items 9080007 Concrete Curb (Type 2)(Modified). Header curb shall be paid under Item 9080403 Concrete Header (Modified). Curb
- 3. New AC Pavement will be considered incidental and included in the cost of constructing new curb.
- 4. New object Markers will be paid for under item 7030010, Object Marker (OM2-2V) (All Direction).
- 5. Chicane locations should be verified in the field to avoid conflicts with utilities and other roadway features.

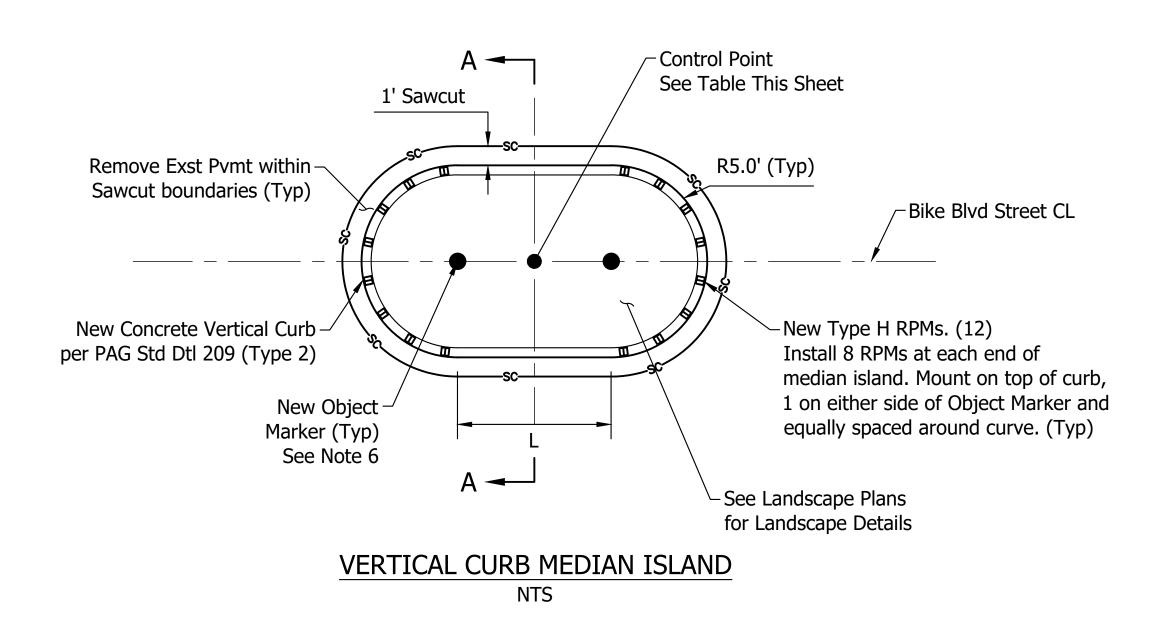
	CHICANES													
/CH ##	Bike Blvd Street	Cross Street	Distance (FT)		Curb Length (LF)	Header Length (LF)								
01	9th Ave	5th St	115 (North)	34	18	57								
02	9th Ave	5th St	149 (North)	34	18	57								
03	10th Ave	Adams St	108 (North)	52	36	75								
04	9th Ave	Rillito St	28 (North)	34	18	57								
05	9th Ave	Rillito St	70 (North)	34	18	57								
06	Balboa Ave	Fort Lowell Rd	74 (South)	52	36	75								
07	Balboa Ave	Fort Lowell Rd	144 (South)	52	36	75								
08	5th St	First Ave	162 (West)	34	18	57								
09	5th St	First Ave	122 (West)	34	18	57								

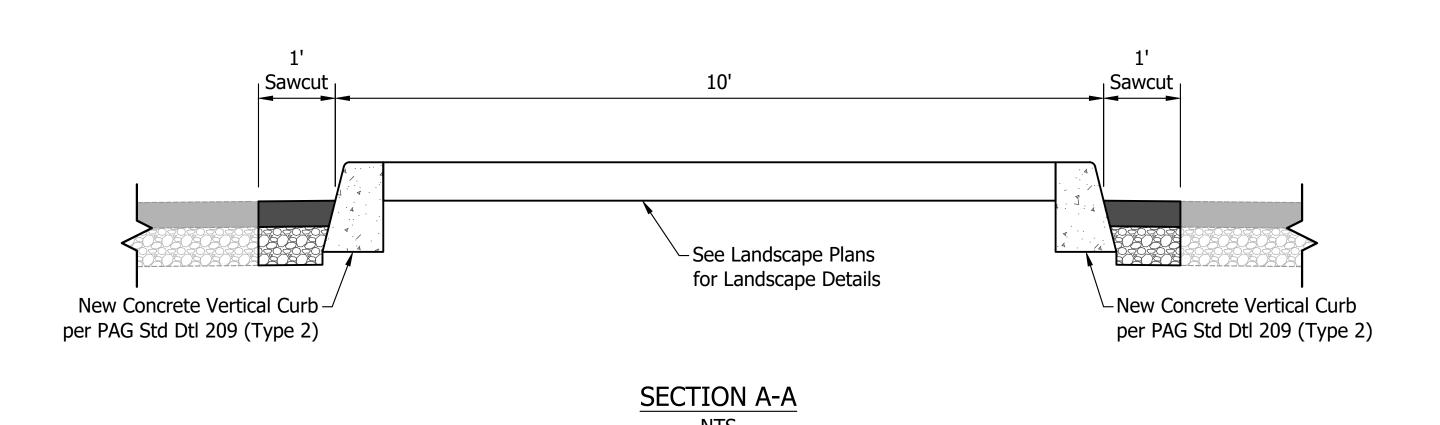
- A. Distance to chicane control point to be measured from nearest cross street FOC as listed in table.
- B. Vertical curb length include transitions and inlets.



DT04 of DT09

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	CENTER ISLANDS											
CI ##	Bike Blvd Street Near Cross Distance (FT) ^A Offset (FT) ^B L Curb Length (L											
01	9th Ave	Lee St	87 (South)	18 (East)	8	48						
02	5th St	Fourth Ave	152 (West)	24 (South)	8	48						

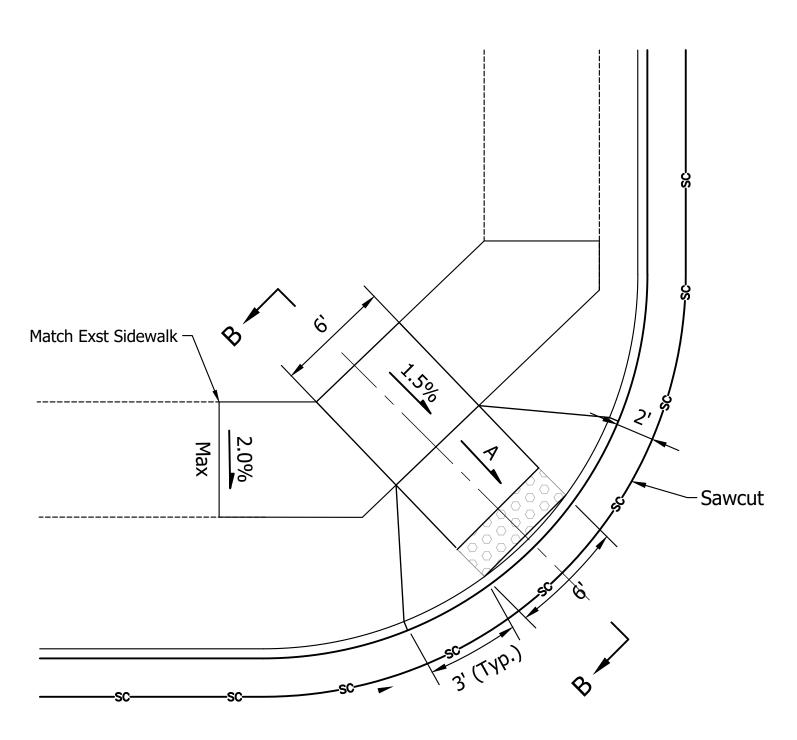
- A. Distance to center island control point to be measured from nearest cross street FOC as listed in table.
- B. Offset to center island control point to be measured perpendicularly from adjacent FOC.

- 1. 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.
- 2. 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. Any work necessary to protect in place or adjust the survey monuments will be paid for under Item 9090002, Survey Monument.
- 3. Removal of existing pavement will be included in the cost of Item 2020029 Removal of Bituminous Pavement. Sawcutting will be considered incidental to the removal cost.
- 4. New AC Pvmt will be considered incidental and included in the cost of the constructing new curb.
- 5. New object Markers will be paid for under item 7030010, Object Marker (OM2-2V) (All Direction).
- 6. Center Island locations should be verified in the field to avoid conflicts with utilities and other roadway features.



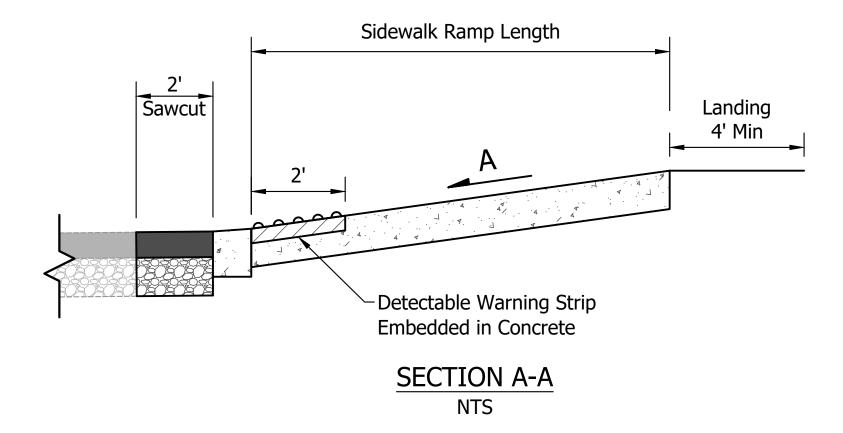
DT05 OF DT09

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A - 5.0% Min and 8.3% Max

TYPE 1 - CURB ACCESS RAMP NTS



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

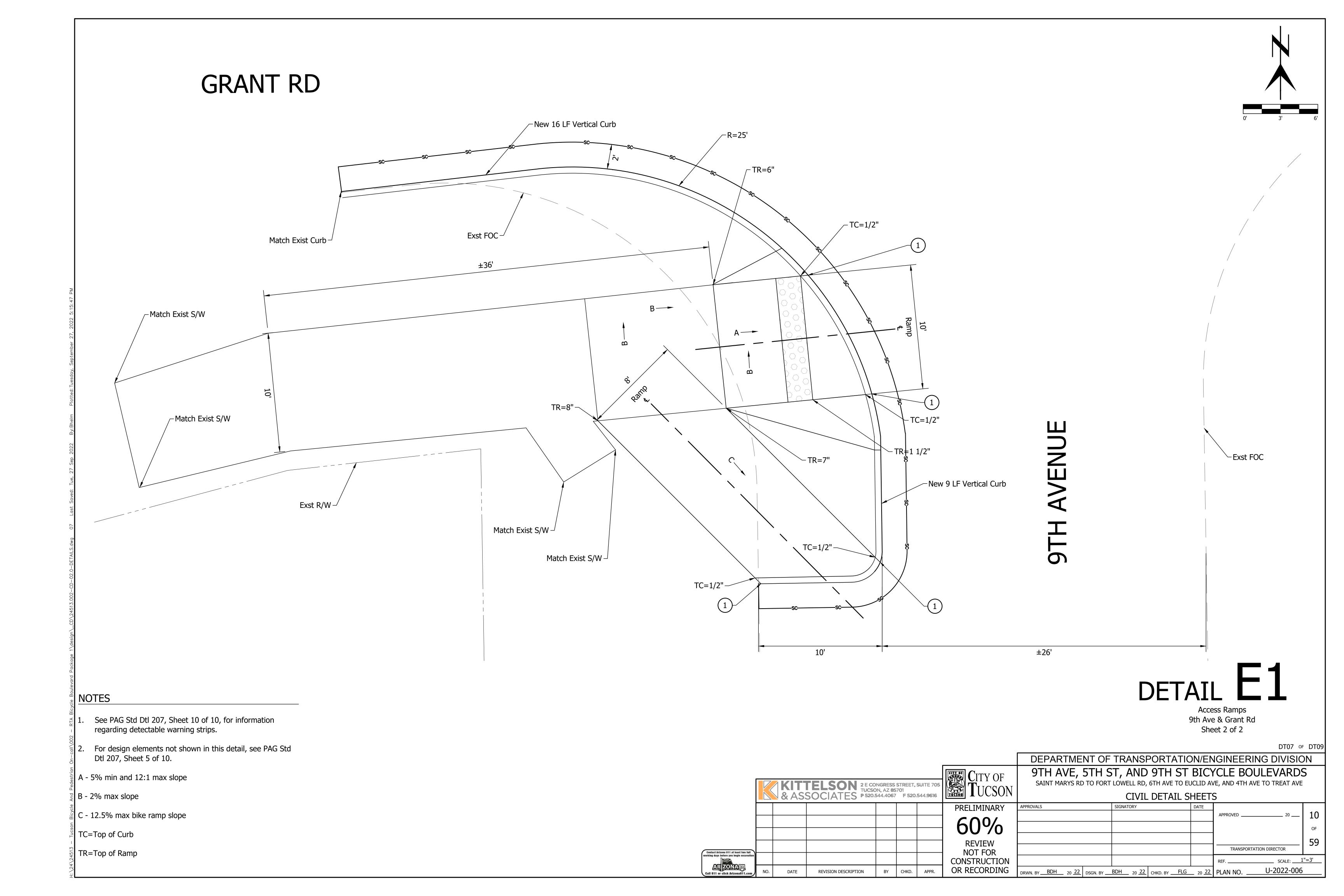
- 1. Sawcut 2' of pavement around the existing curb and curb access ramps to construct new curb and curb access ramps. Replace AC with PAG Mix No. 2 per PAG Std Dtl 216, Type 2. New AC pavement will be considered incidental and included in the cost of the item.
- 2. Sawcutting of the existing sidewalk, 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.
- 4. See PAG Std Dtl 200 for joint requirements. Sidewalk will be paid for under Item 9080201, Concrete Sidewalk.
- 5. 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".
- 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.
- 7. Existing ramp and sidewalk pavers shall be salvaged and reused, where applicable.

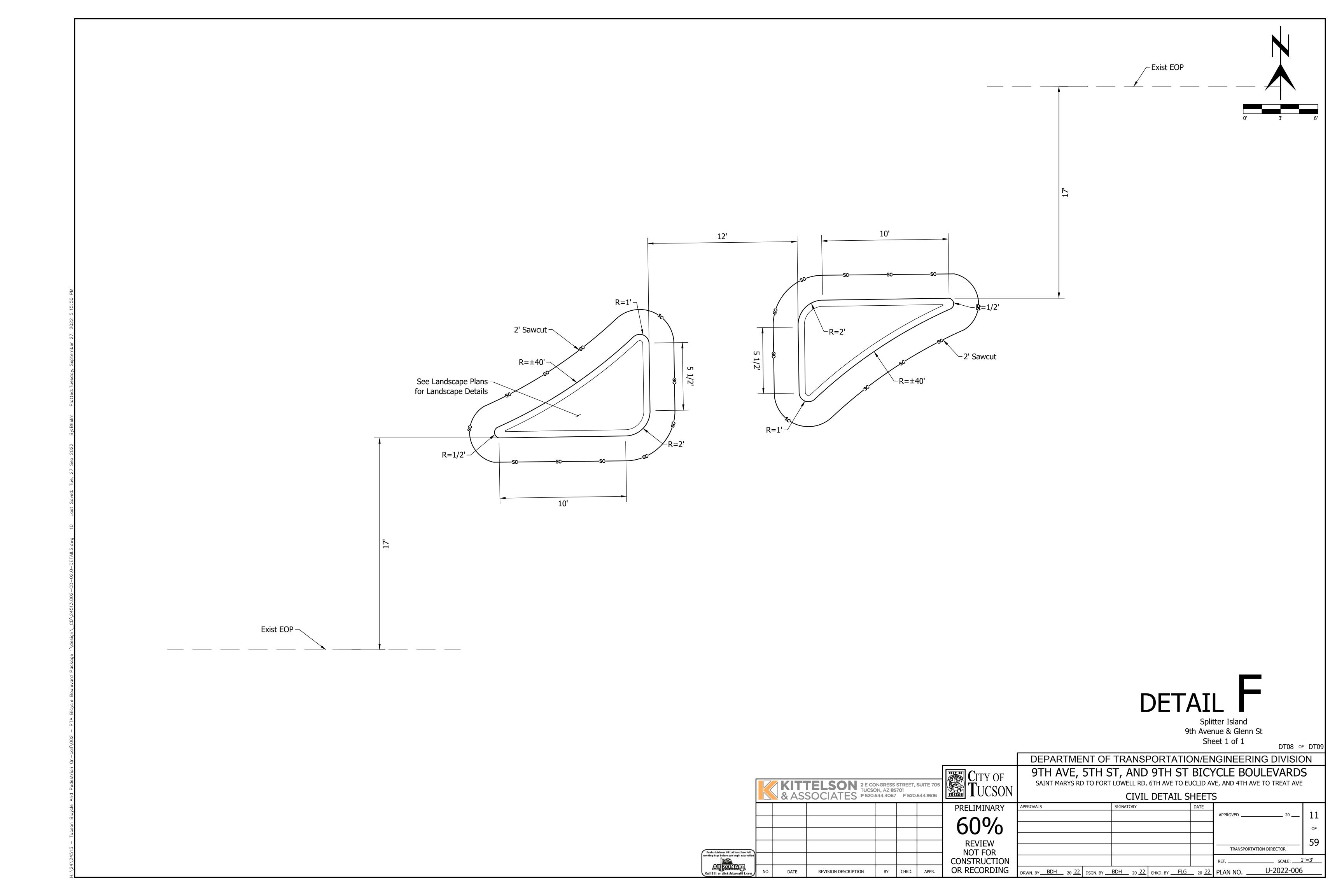


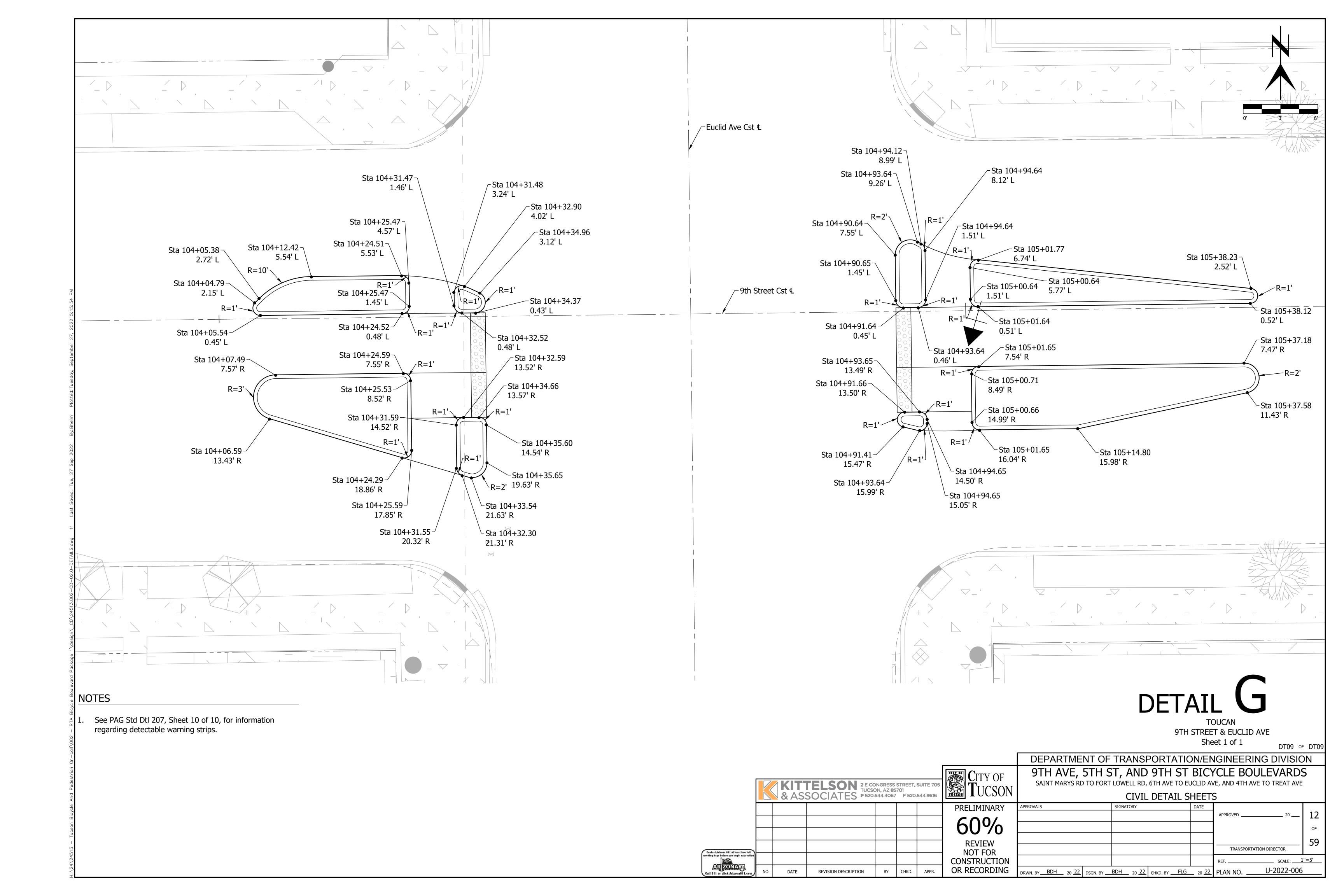
Sheet 1 of 2 DT06 OF DT09

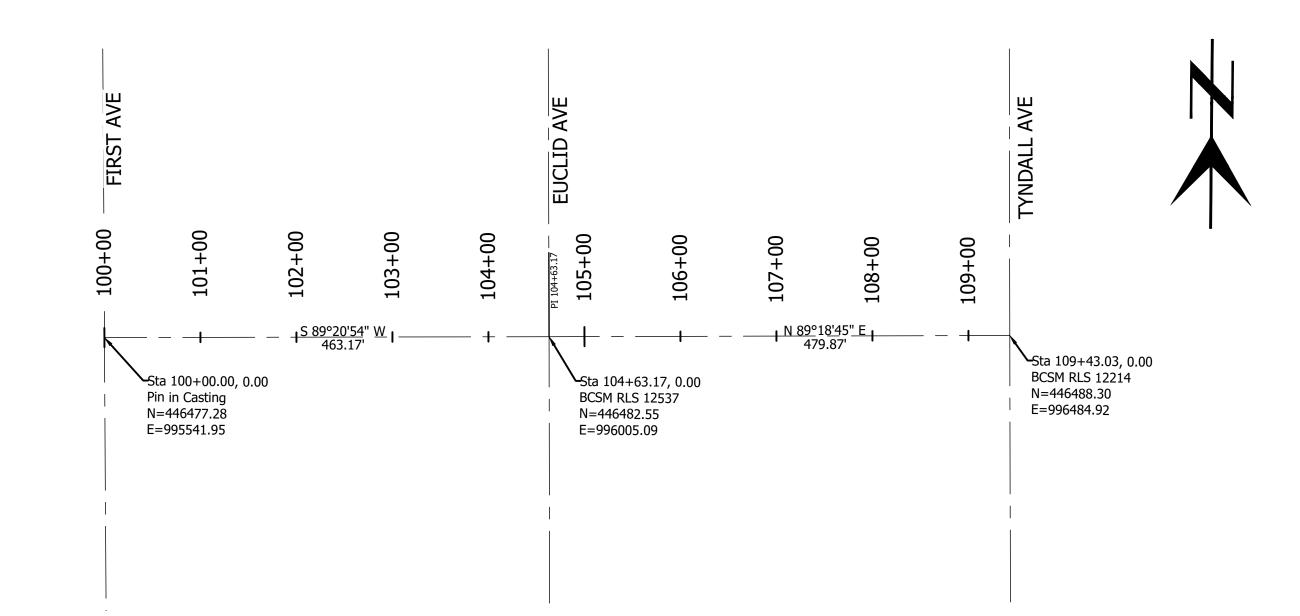
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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION **KITTELSON** 2 E CONGRESS STREET, SUITE 705 TUCSON, AZ 85701 P 520.544.4067 F 520.544.9616 PRELIMINARY REVIEW NOT FOR CONSTRUCTION AR ZONASII.
Call 811 or click Arizona811.c







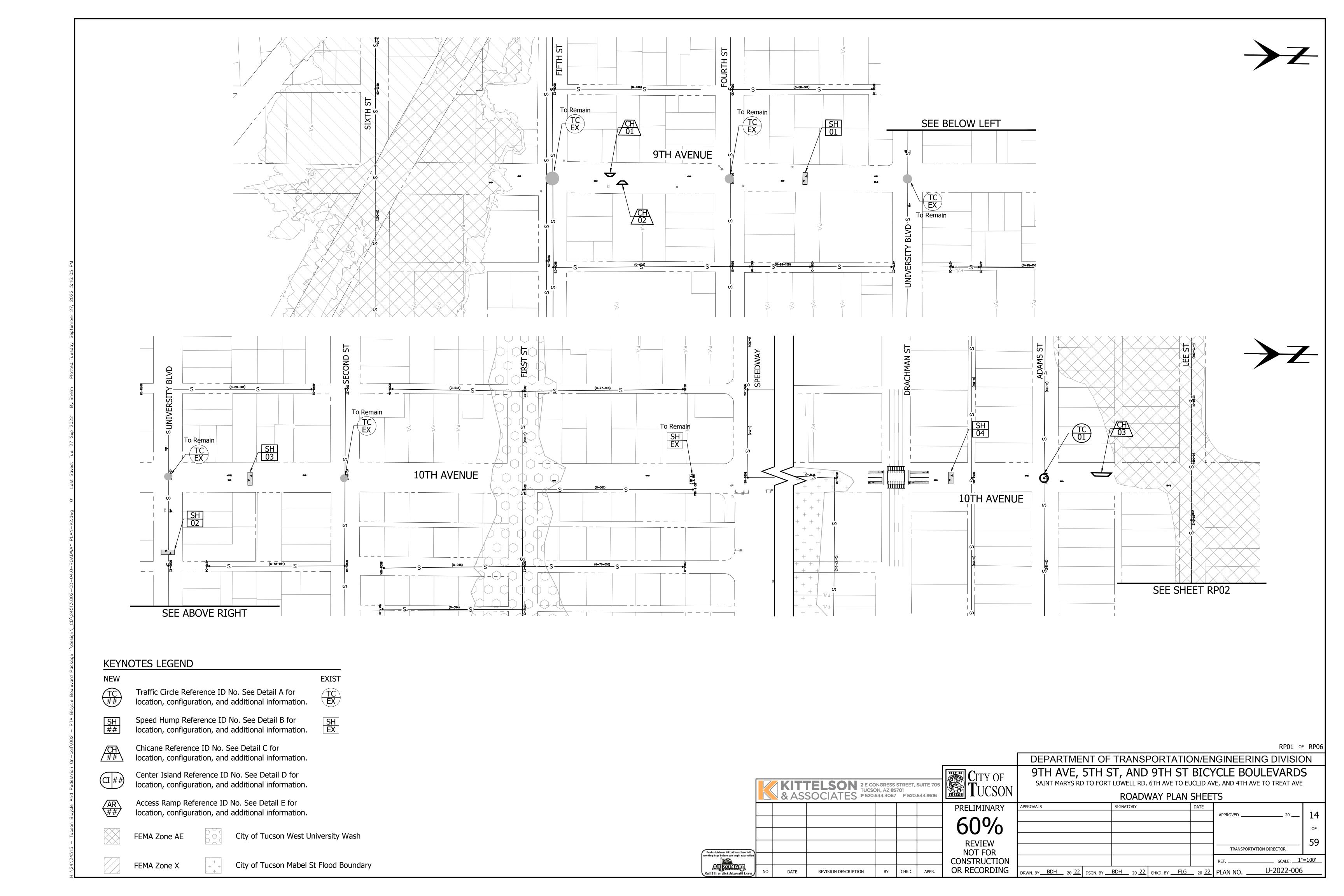


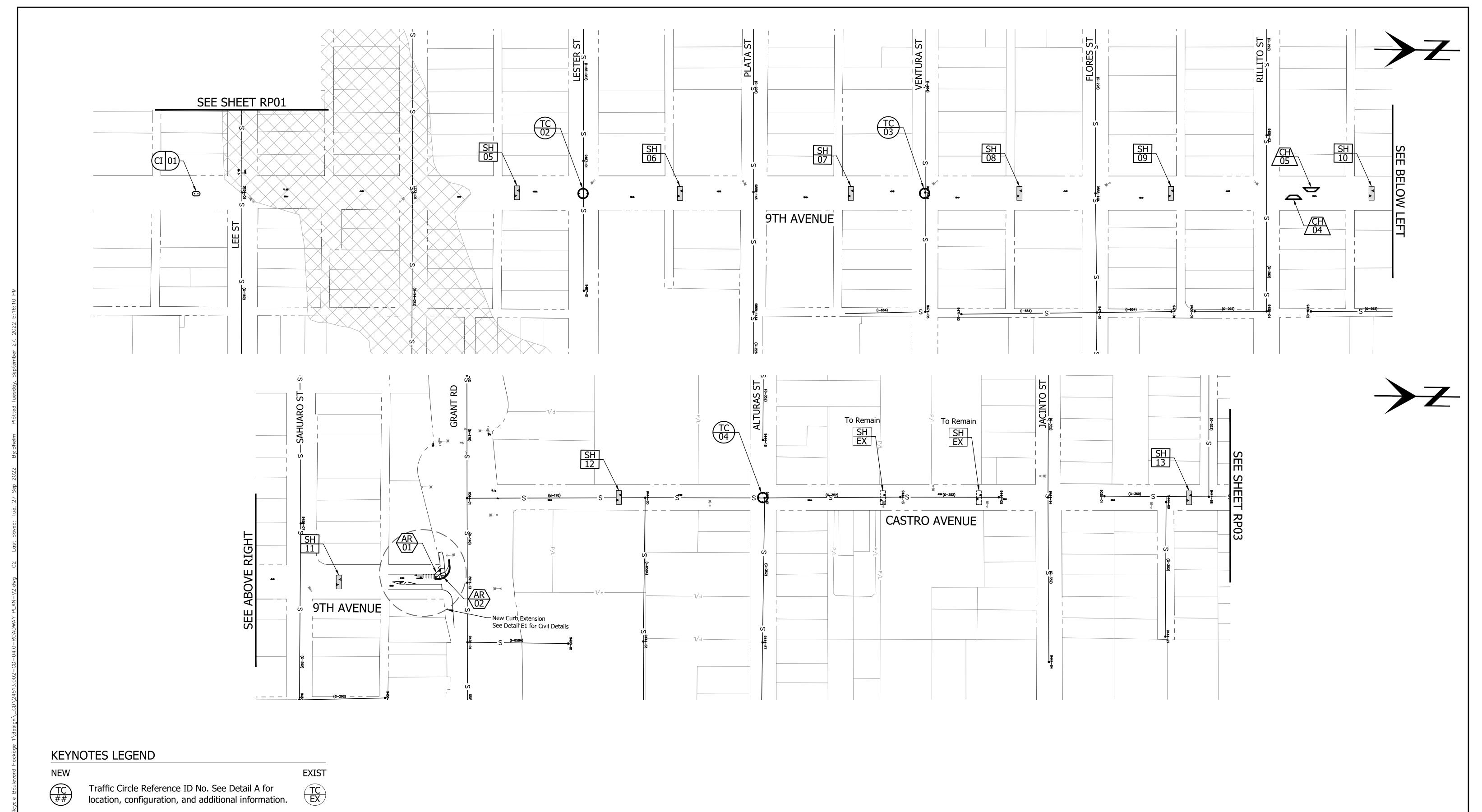
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KITTELSON 2 E CONGRESS STREET, SUITE 705
TUCSON, AZ 85701

& ASSOCIATES P 520.544.4067 F 520.544.9616

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TUCSON PRELIMINARY REVIEW NOT FOR CONSTRUCTION Contact Arizona 811 at least two full working days before you begin excavation and the contact of the contact o SCALE: ___1"=100' OR RECORDING U-2022-006 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. _





AR ZONASII.
Call 811 or click Arizona811.c

Speed Hump Reference ID No. See Detail B for

SH ## location, configuration, and additional information.

/CH ##

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.

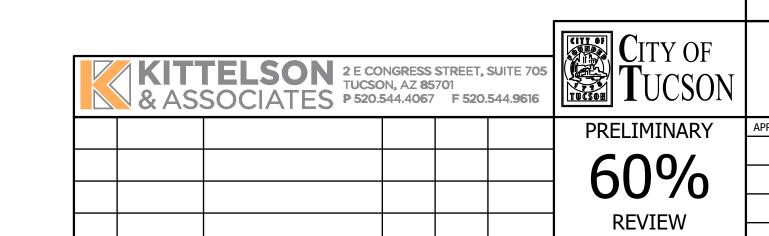
Access Ramp Reference ID No. See Detail E for location, configuration, and additional information.



City of Tucson West University Wash

FEMA Zone X

City of Tucson Mabel St Flood Boundary



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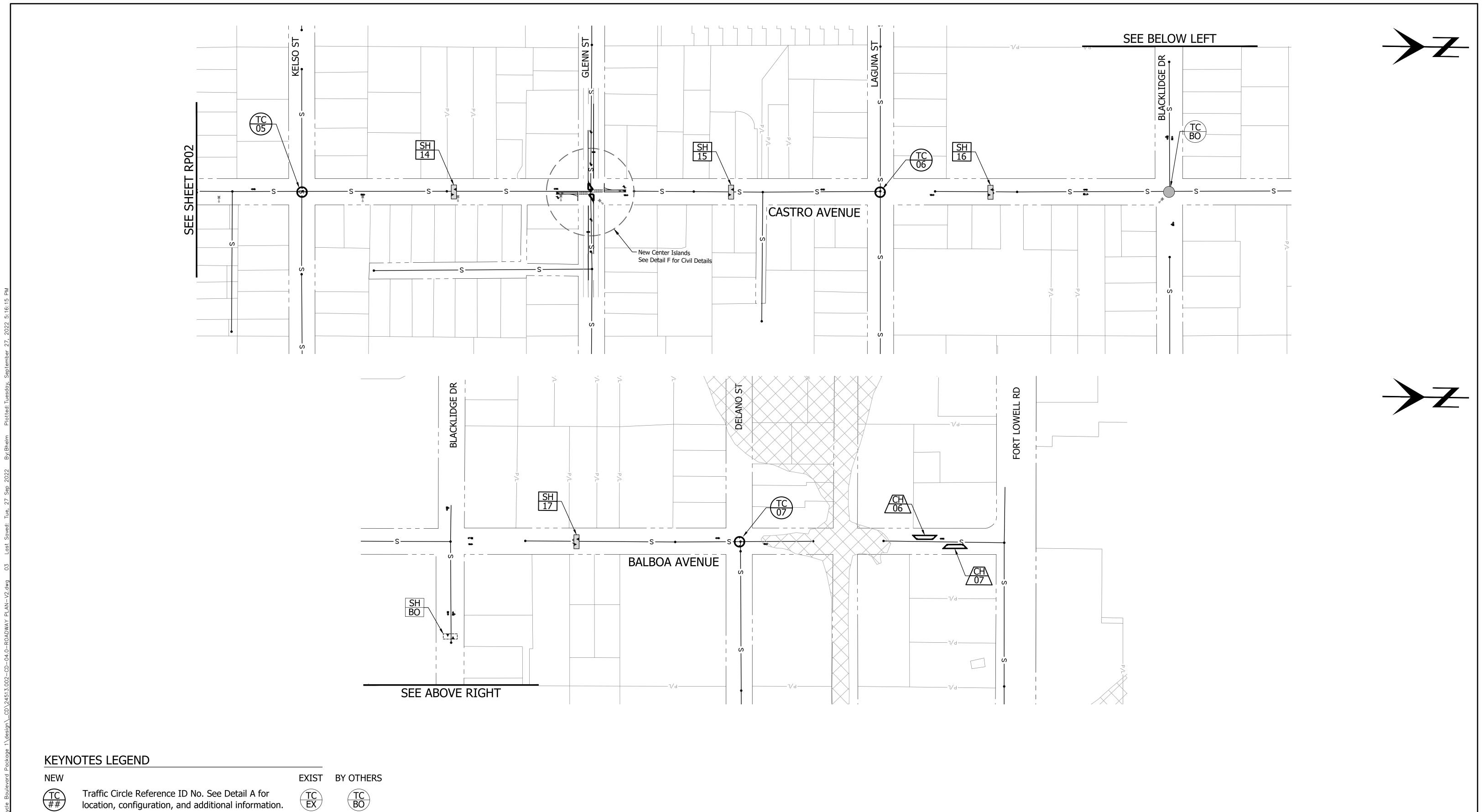
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SIGNATORY

TRANSPORTATION DIRECTOR

RP02 of RP06

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Call 811 or click Arizona811

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location, configuration, and additional information.





SH BO

Speed Hump Reference ID No. See Detail B for location, configuration, and additional information.





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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.

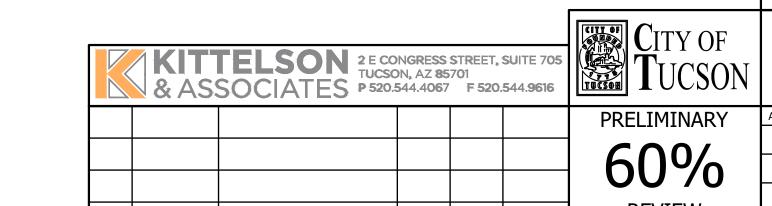




City of Tucson West University Wash

FEMA Zone X

City of Tucson Mabel St Flood Boundary



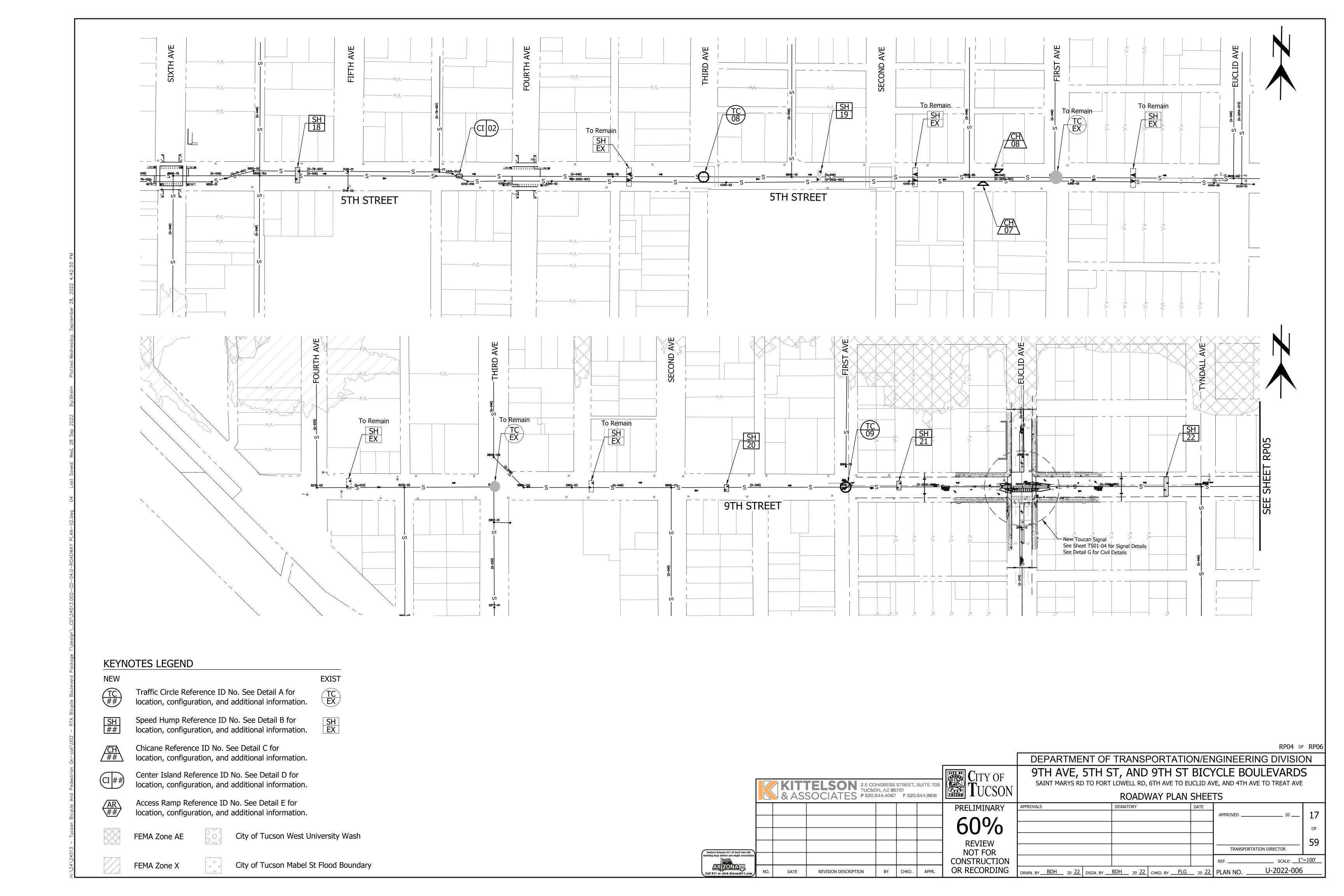
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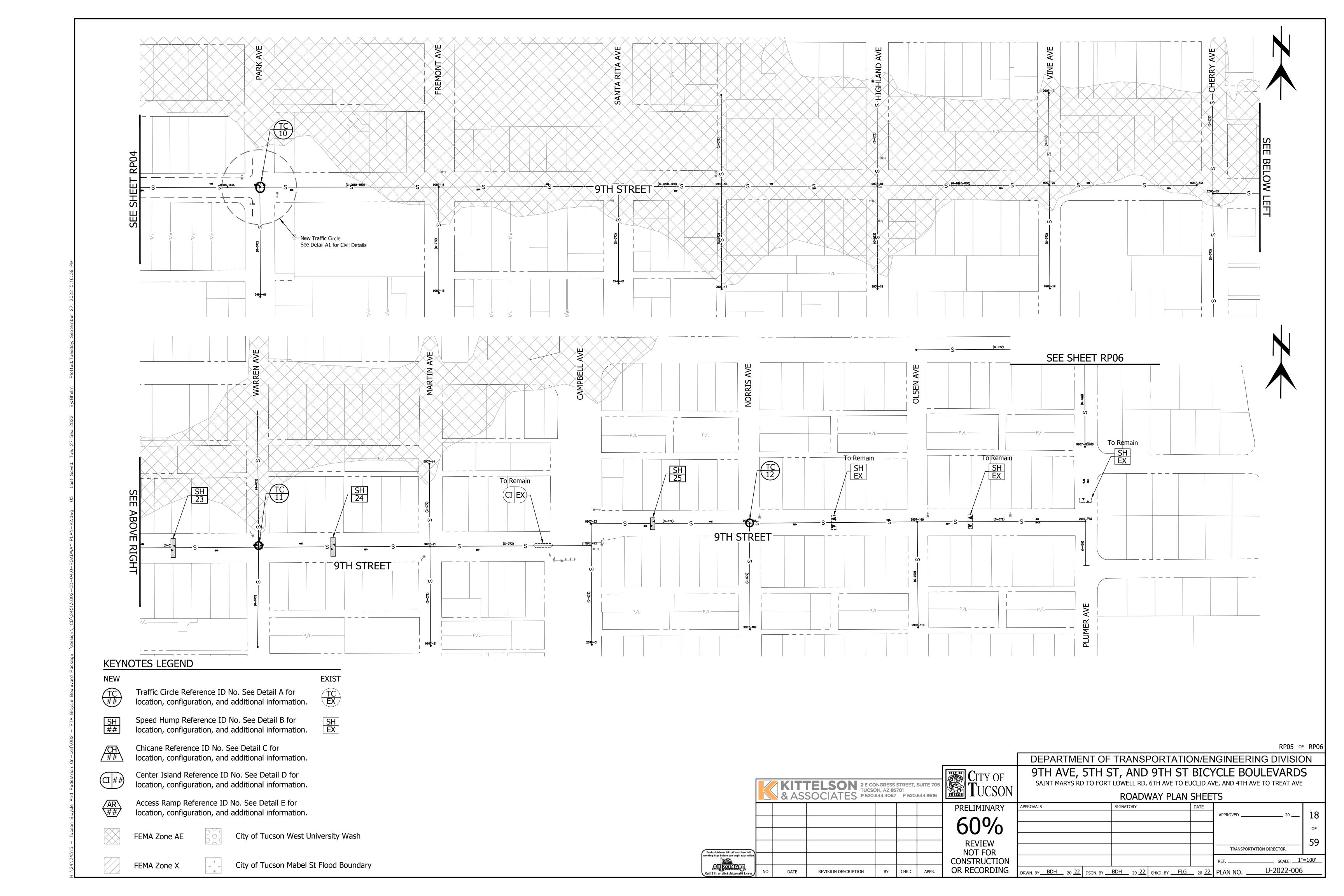
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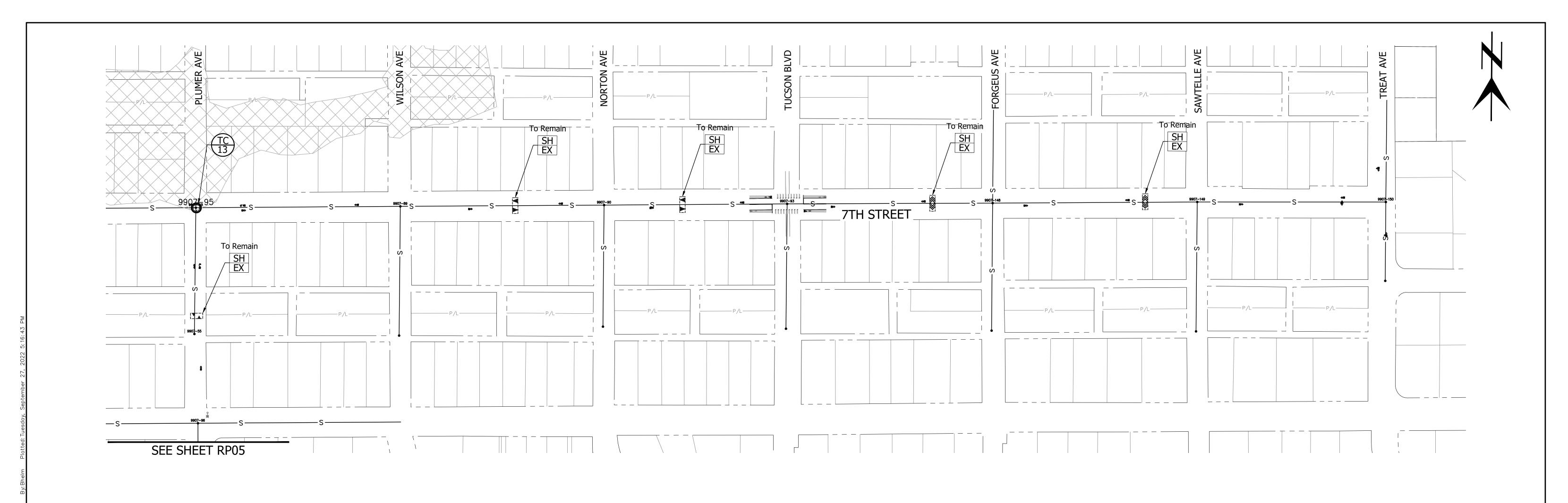
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RP03 of RP06

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AR ZONASII.



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.



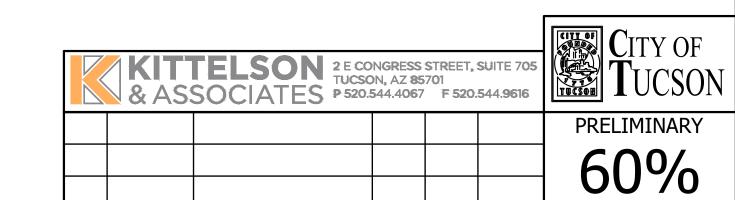
Access Ramp Reference ID No. See Detail E for location, configuration, and additional information.



City of Tucson West University Wash

FEMA Zone X

City of Tucson Mabel St Flood Boundary



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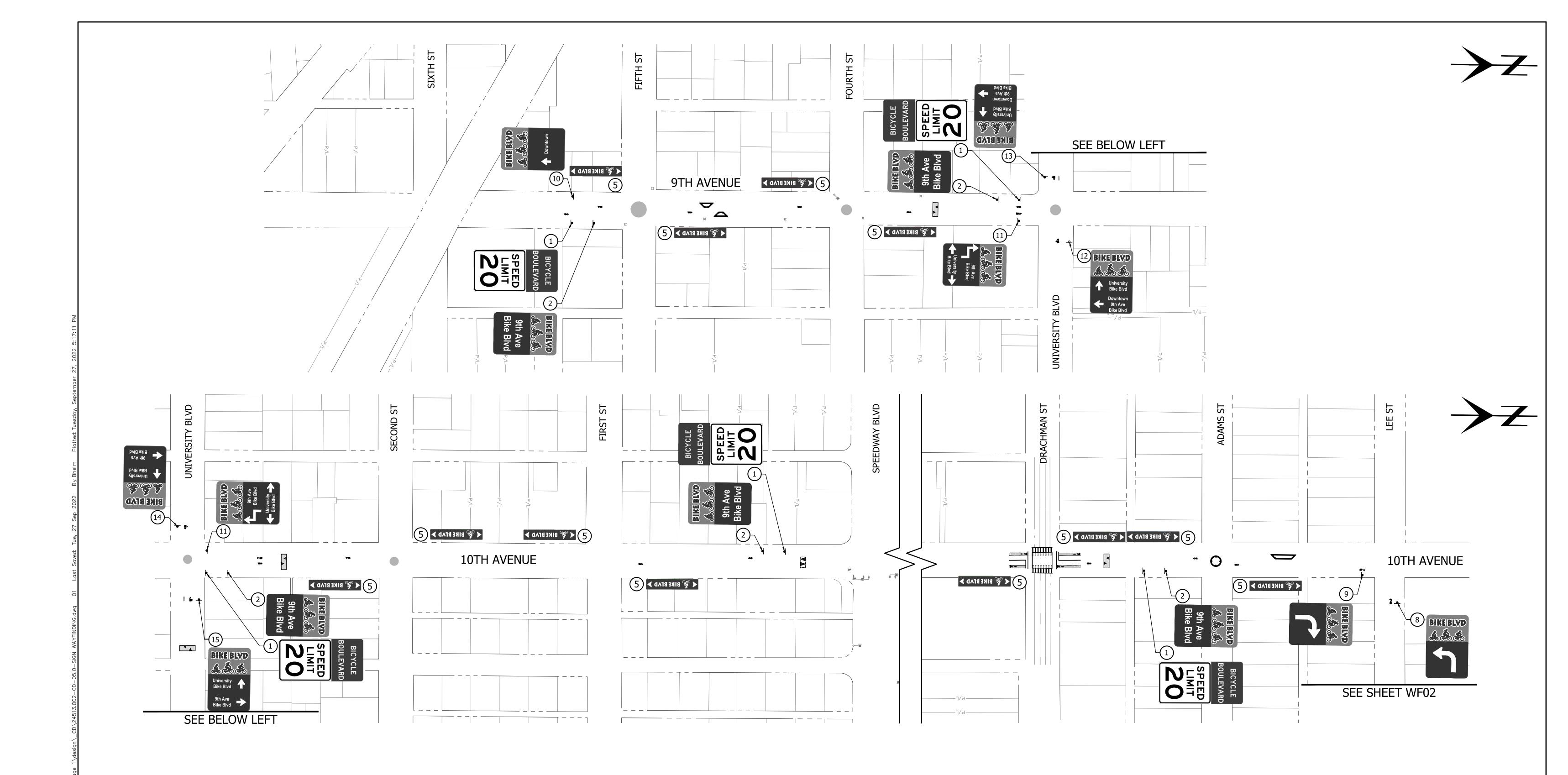
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TRANSPORTATION DIRECTOR

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

RP06 of RP06

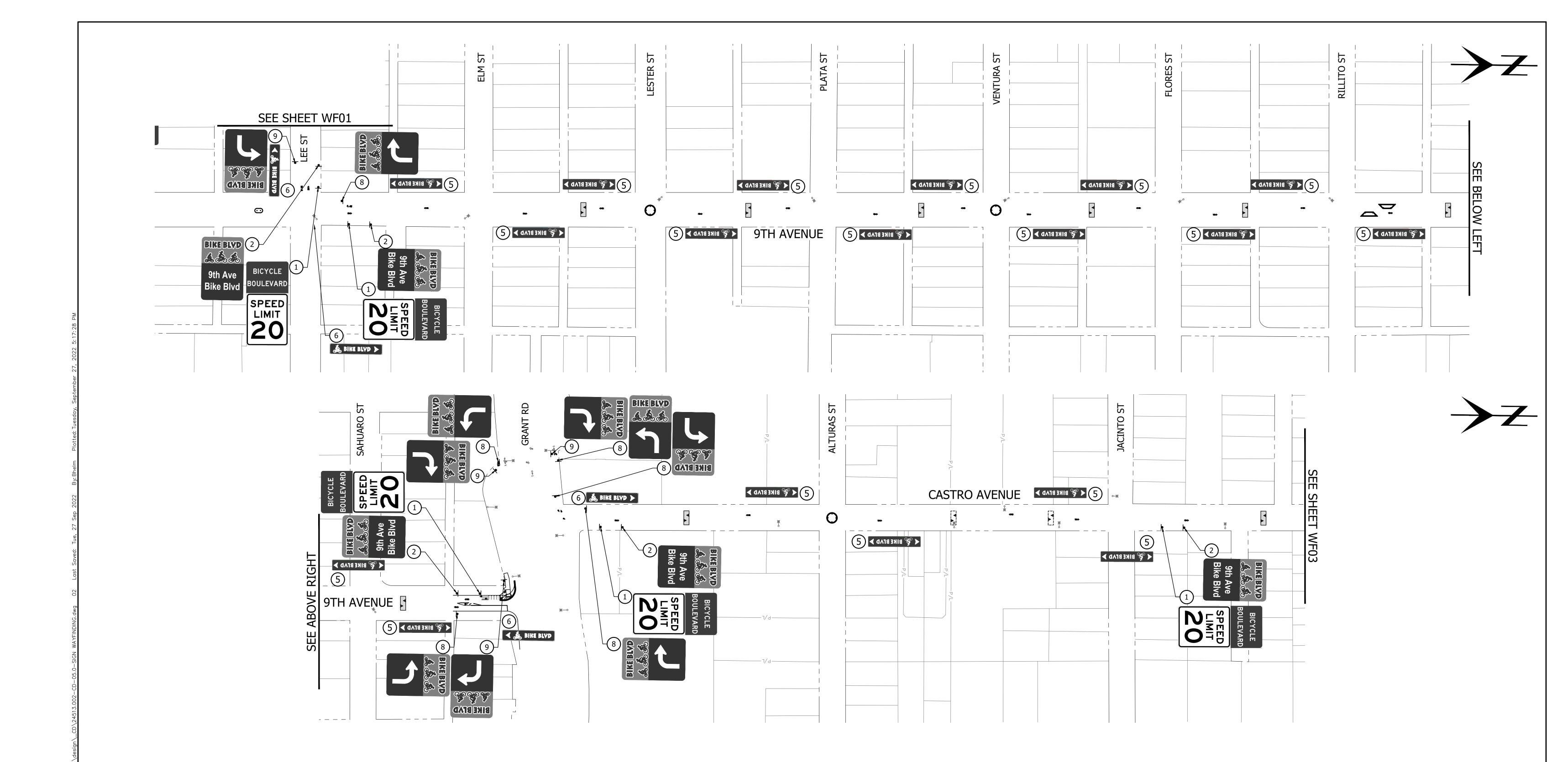
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- After locations for wayfinding signs are staked, the contractors shall obtain approval by the Engineer before installing signs. The Engineer shall check sign locations for conflicts with existing structures, utilities, signs, and right-of-way; sign 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.

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 CITY OF TUCSON **EXECUTE: 105 | CONGRESS STREET, SUITE 705 | TUCSON, AZ 85701 | P 520.544.4067 | F 520.544.9616 BIKE BLVD WAYFINDING SIGN SHEET PRELIMINARY SIGNATORY APPROVALS 60% REVIEW NOT FOR TRANSPORTATION DIRECTOR CONSTRUCTION AR ZONASII. Call 811 or click Arizona811.c ____ SCALE: ___1"=100' OR RECORDING U-2022-006 DRWN. BY <u>BDH</u> 20 ---- DSGN. BY <u>BDH</u> 20 <u>22</u> CHKD. BY <u>FLG</u> 20 <u>22</u> PLAN NO. _

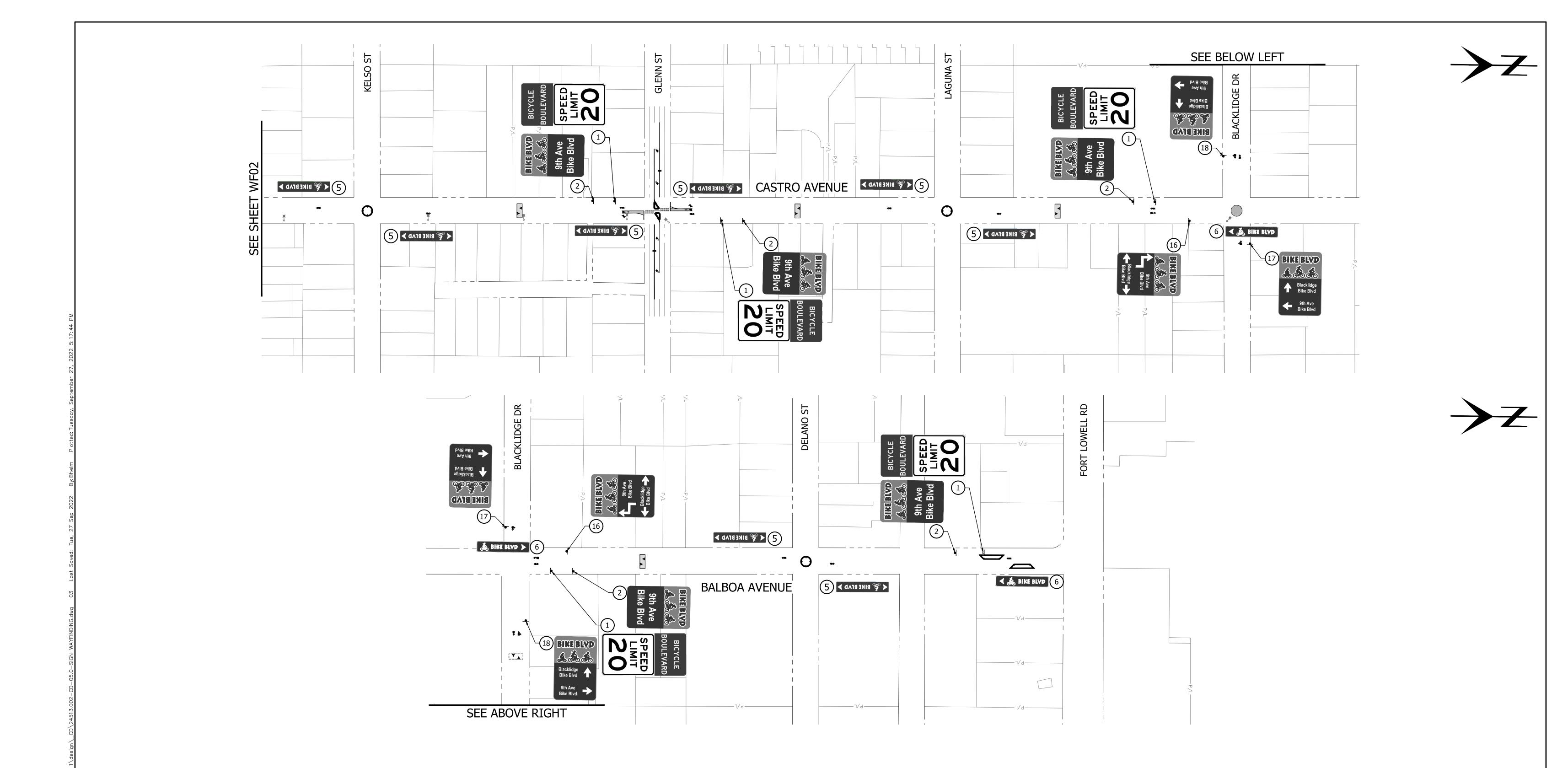
WF01 of WF06



- 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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working days before you begin excavation							CONSTRUCTION				REF SCALE:1	"=100'
Call 811 or click Arizona811.com	NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.	OR RECORDING	DRWN. BY <u>BDH</u> 20 <u>22</u> DSGN. B	/ BDH 20 22 CHKD. BY FL	G 20 22	PLAN NOU-2022-006	5

WF02 of WF06



Call 811 or click Arizona811.cr

Notes

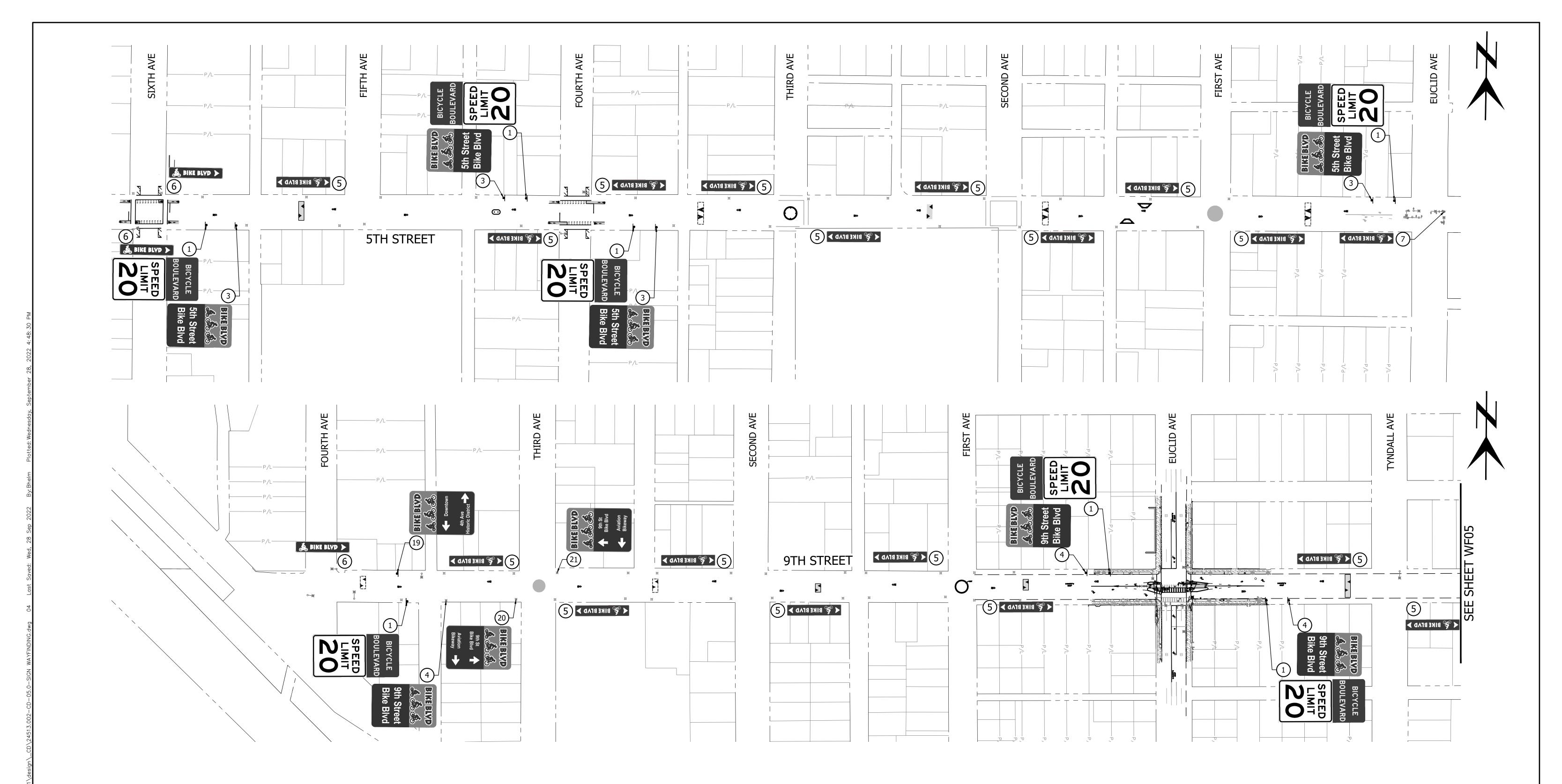
- 1. After locations for wayfinding signs are staked, the contractors shall obtain approval by the Engineer before installing signs. The Engineer shall check sign locations for conflicts with existing structures, utilities, signs, and right-of-way; sign spacing; and distances to and from intersections.
- 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.

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

WF03 of WF06

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 CITY OF

	KIT & AS	FELSON 2EC TUC SOCIATES P 52	CONGRESS SON, AZ 8: 0.544.406	STREET, 5701 7 F 520	SUITE 705 .544.9616	TUCSON	SAINT MARYS RD	TO FORT LOWELL RD, 6TH BIKE BLVD WAY		VE, AND 4TH AVE TO TREAT AVE SN SHEET	E
						PRELIMINARY	APPROVALS	SIGNATORY	DATE		
										APPROVED 20	22
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				-		REVIEW					59
						NOT FOR				TRANSPORTATION DIRECTOR	
						CONSTRUCTION				REF SCALE:1	L"=100'
NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.	OR RECORDING	DRWN. BY BDH 20 22	DSGN. BY BDH 20 22 CHK	CD. BY FLG 20 22	PLAN NO. U-2022-006	6



- 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.

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 CITY OF TUCSON **EXECUTION 1 CONGRESS STREET, SUITE 705 TUCSON, AZ 85701 P 520.544.4067 F 520.544.9616 BIKE BLVD WAYFINDING SIGN SHEET PRELIMINARY SIGNATORY APPROVALS 60% REVIEW NOT FOR TRANSPORTATION DIRECTOR CONSTRUCTION AR ZONASII. Call 811 or click Arizona811.c ___ SCALE: ___1"=100' OR RECORDING U-2022-006 DRWN. BY BDH 20 22 DSGN. BY BDH 20 22 CHKD. BY FLG 20 22 PLAN NO.

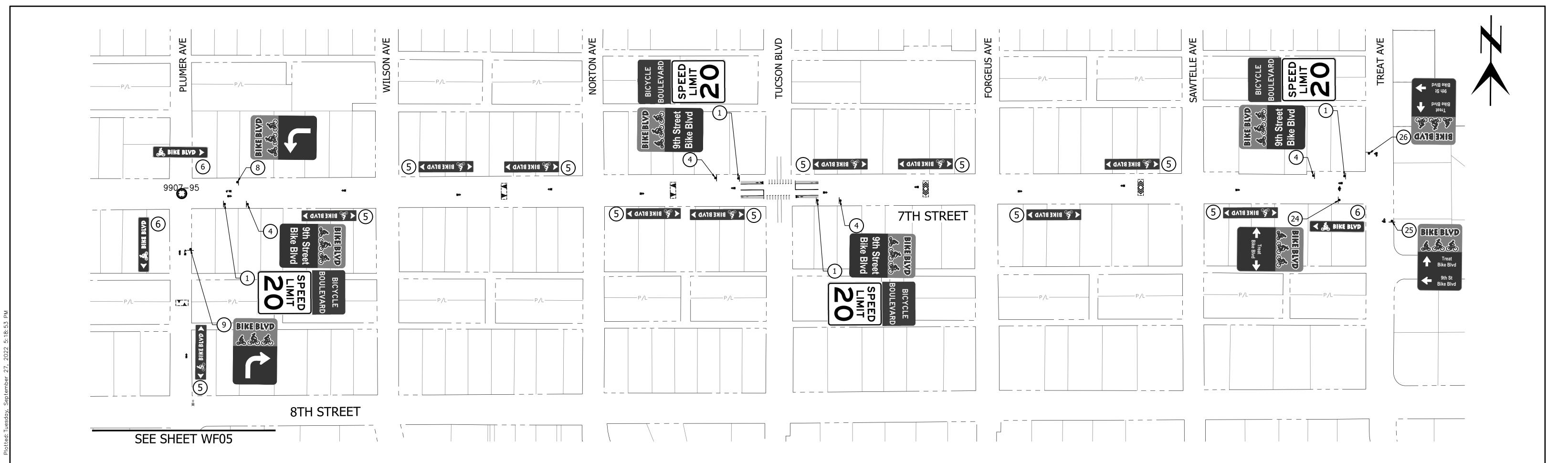
WF04 of WF06



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

								DEPARTMENT OF	DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				
		KITT & ASS	TELSON 2 E CO TUCSO SOCIATES P 520.			SUITE 705 544.9616	CITY OF TUCSON	SAINT MARYS RD TO FOR	•	JCLID A	YCLE BOULEVARDS VE, AND 4TH AVE TO TREAT AVE SN SHEET		
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Contact Arizona 811 at least two full							REVIEW NOT FOR				TRANSPORTATION DIRECTOR	59	
working days before you begin excavation							CONSTRUCTION				REF SCALE:1"	'=100'	
Call 811 or click Arizona811.com	NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.	OR RECORDING	DRWN. BY BDH 20 DSGN. BY _	BDH 20 22 CHKD. BY FLG	20 22	PLAN NOU-2022-006	<u> </u>	

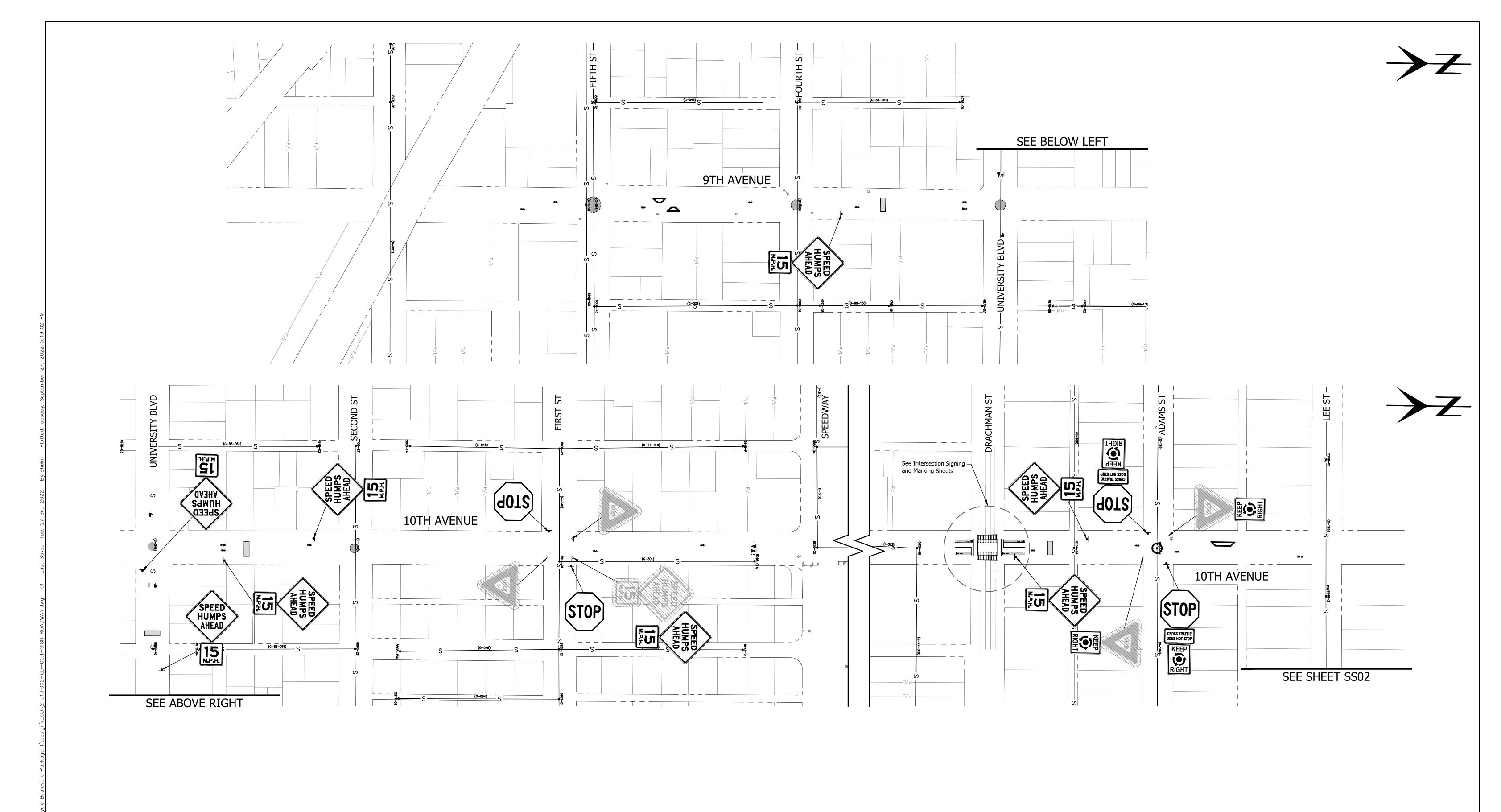
WF05 of WF06



- 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.

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 CITY OF TUCSON **EXECUTION | 2 E CONGRESS STREET, SUITE 705 | TUCSON, AZ 85701 | P 520.544.4067 | F 520.544.9616 BIKE BLVD WAYFINDING SIGN SHEET PRELIMINARY SIGNATORY APPROVALS 60% REVIEW NOT FOR TRANSPORTATION DIRECTOR Contact Arizona 811 at least two full working days before you begin excavation and the contact of the contact o CONSTRUCTION ____ SCALE: ___1"=100' OR RECORDING U-2022-006 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. _

WF06 of WF06



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



New sign panel

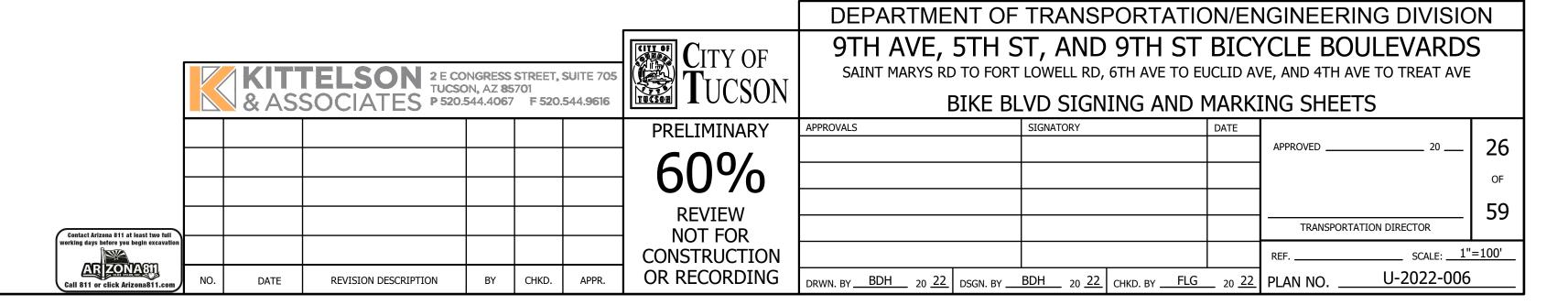
Existing sign panel to remain



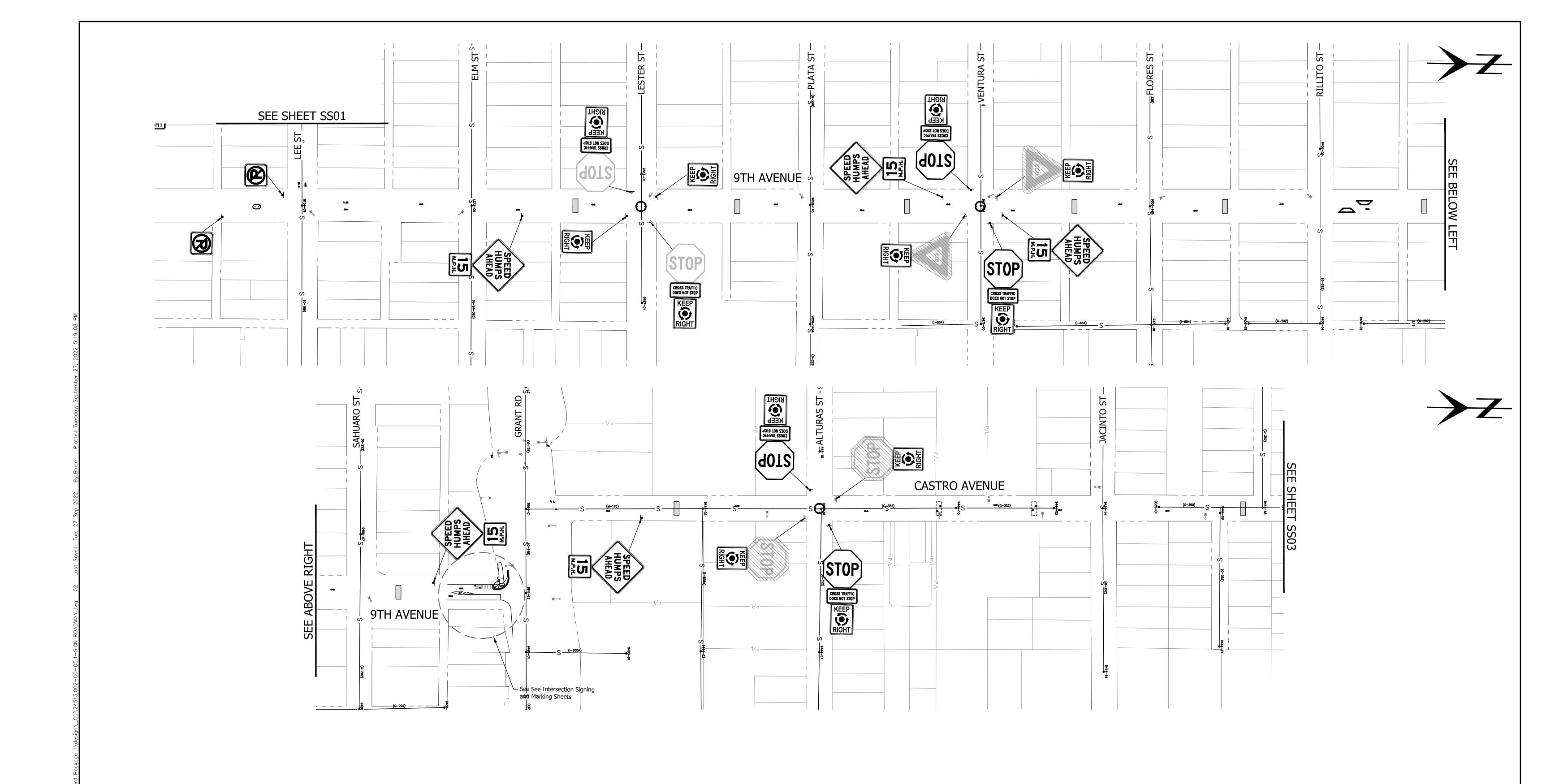
Existing sign panel to be removed

Existing sign post

New sign post



SS01 OF SS06



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

STOP

New sign panel

STOP

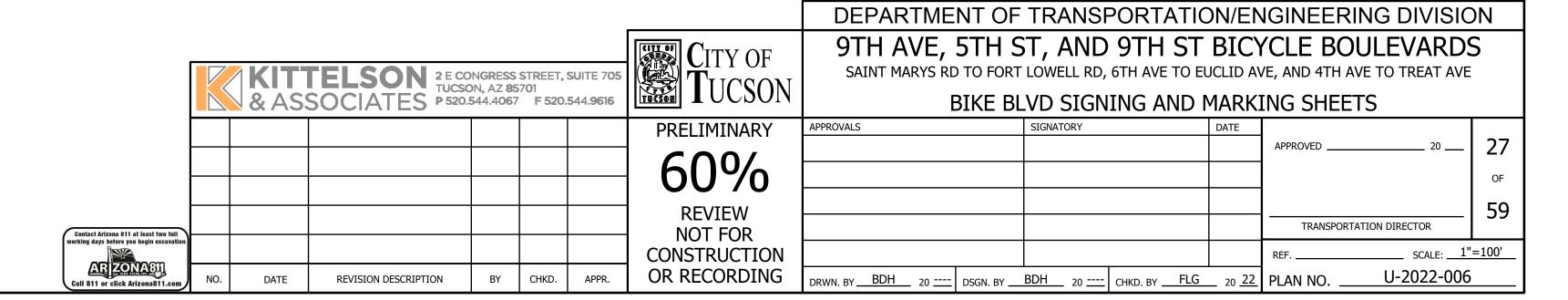
Existing sign panel to remain



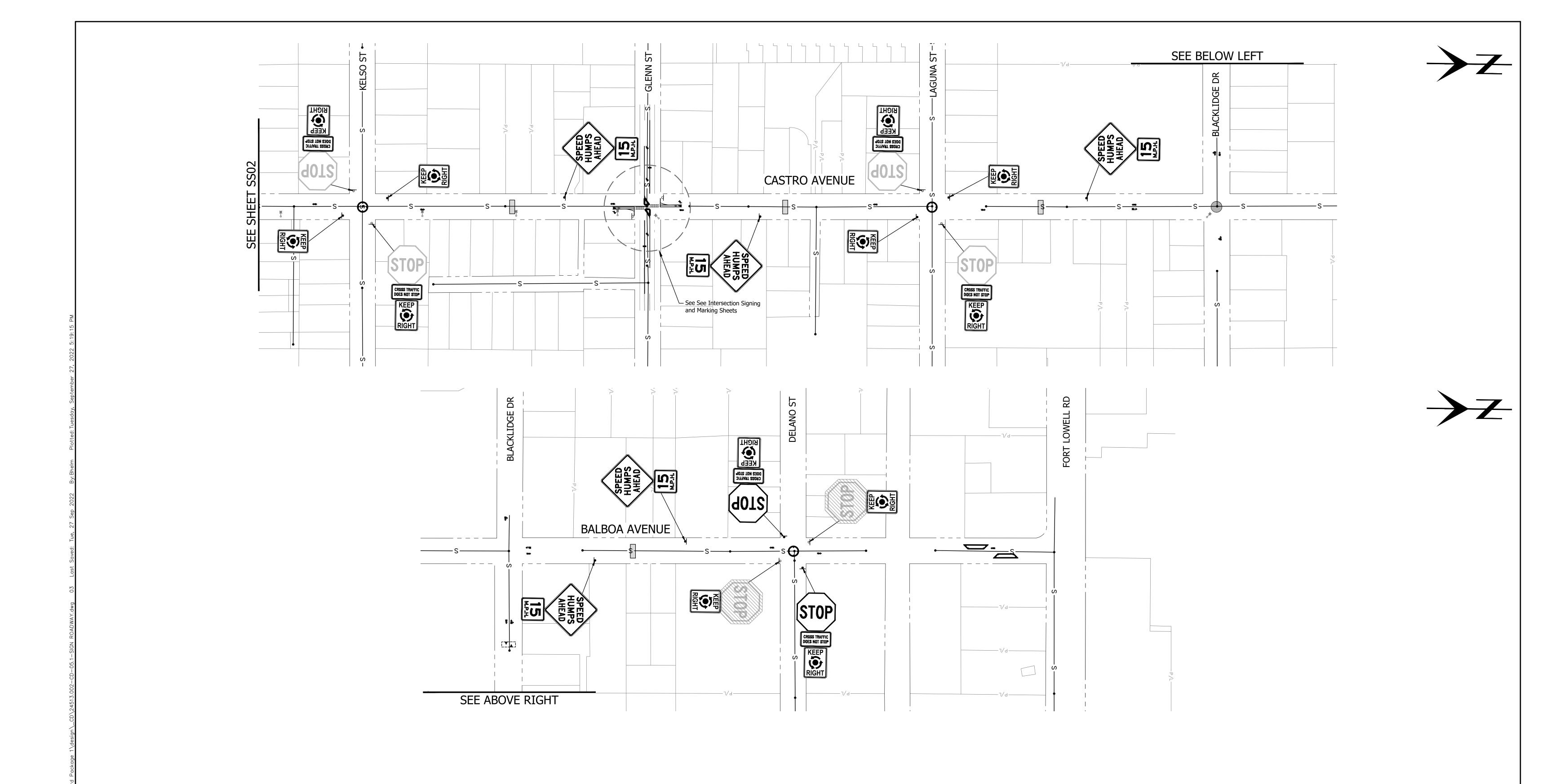
Existing sign panel to be removed

Existing sign post

New sign post



SS02 OF SS06



- 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

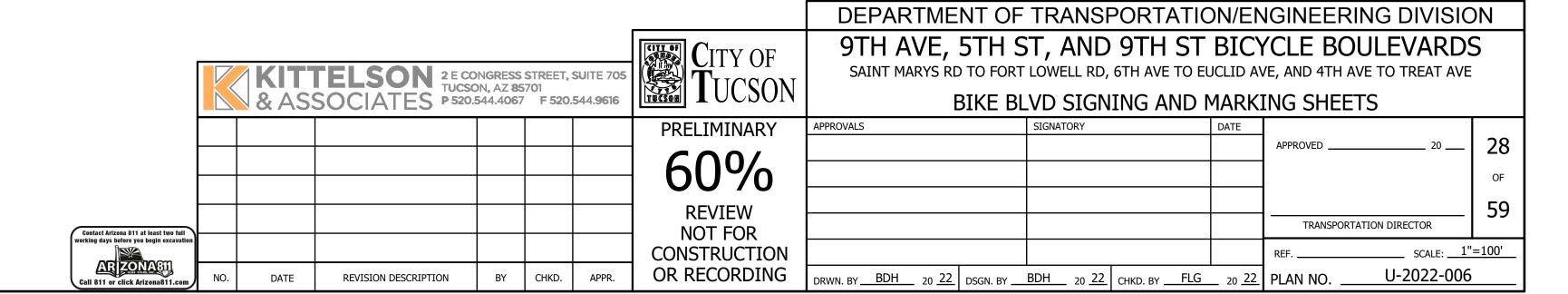


Existing sign panel to be removed

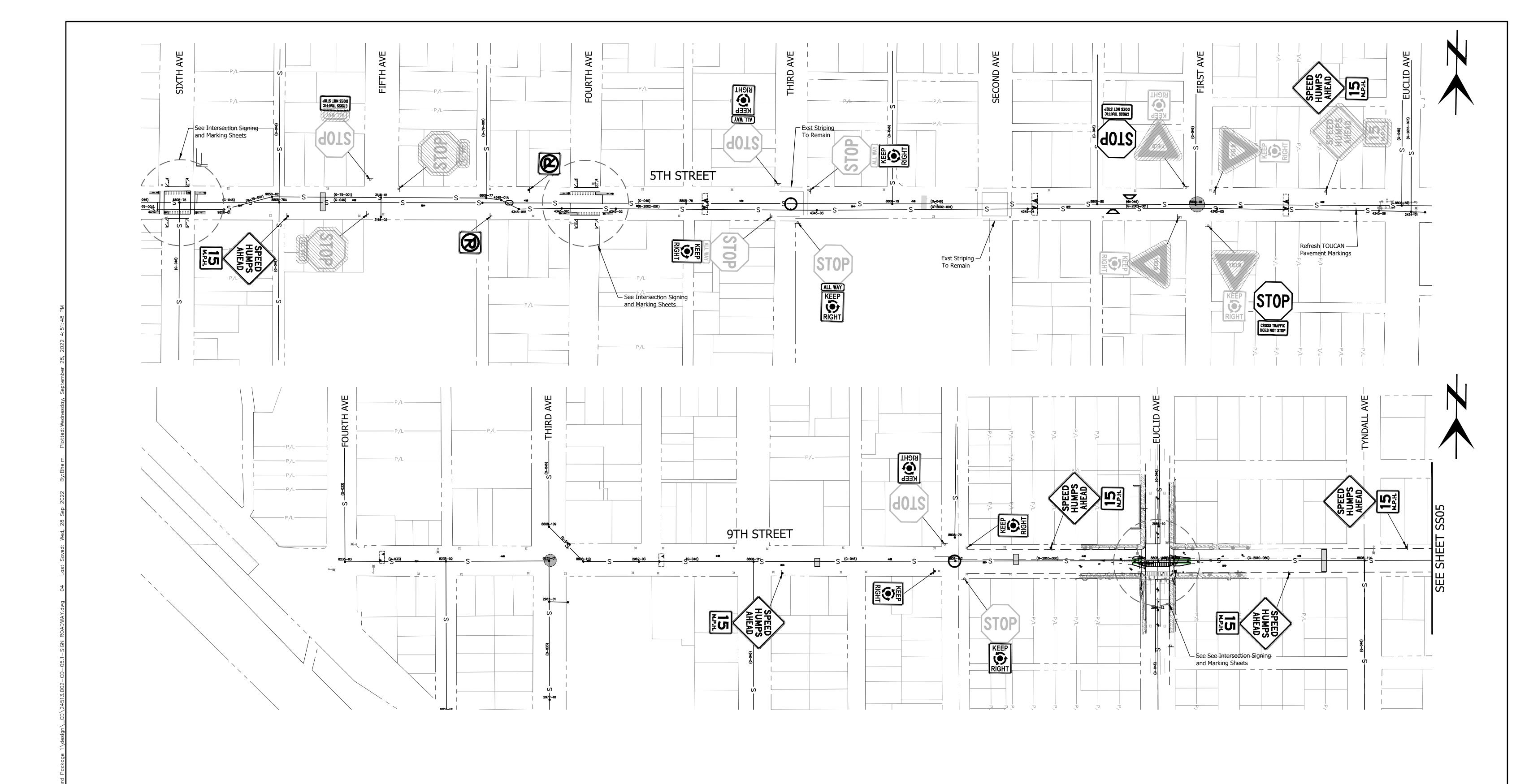


Existing sign post

New sign post



SS03 OF SS06



- 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

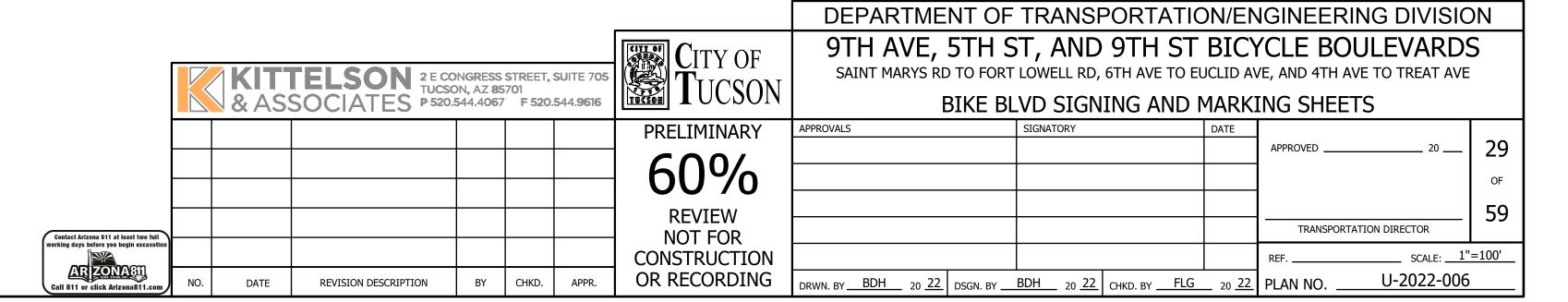


Existing sign panel to be removed

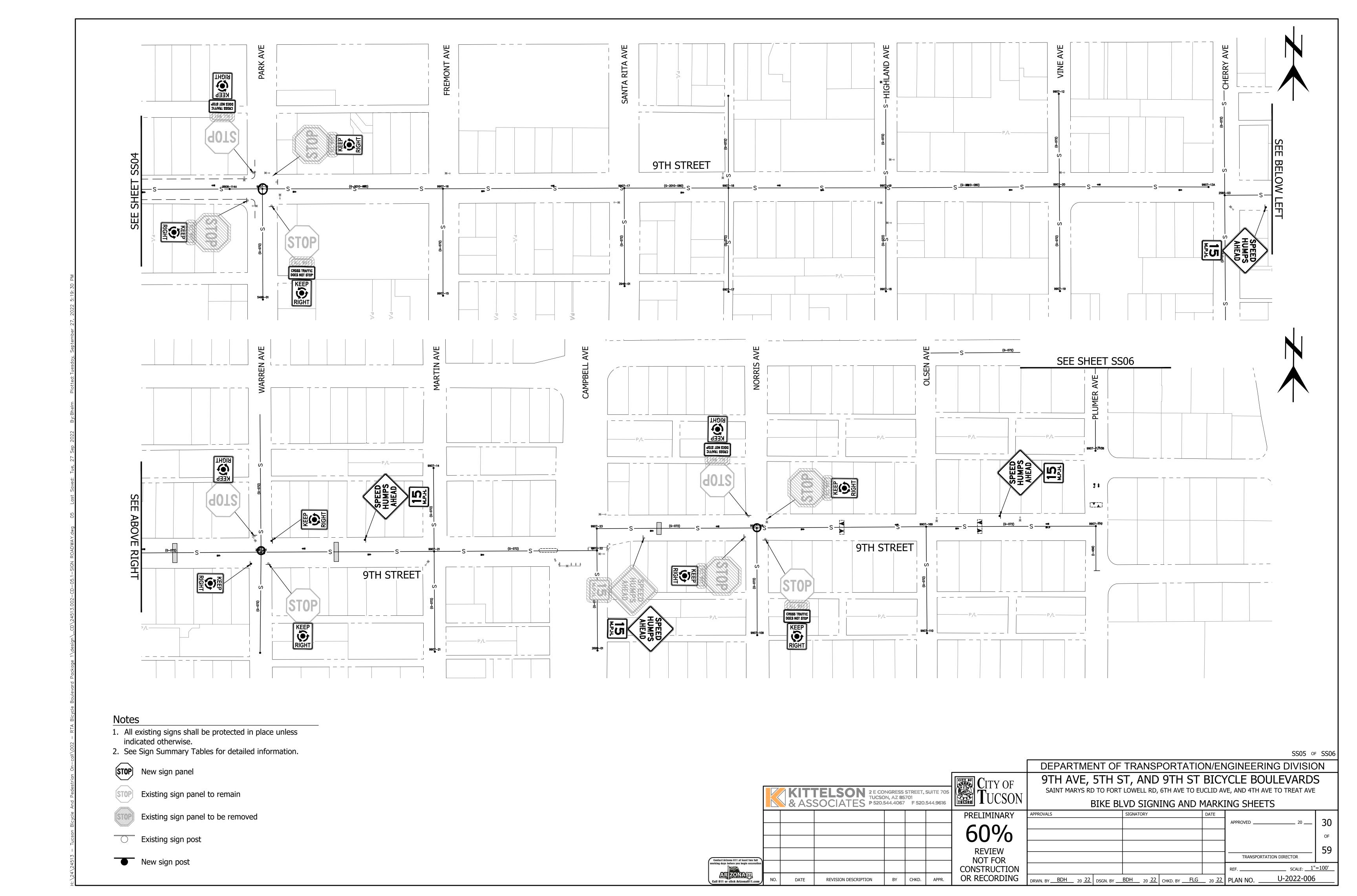


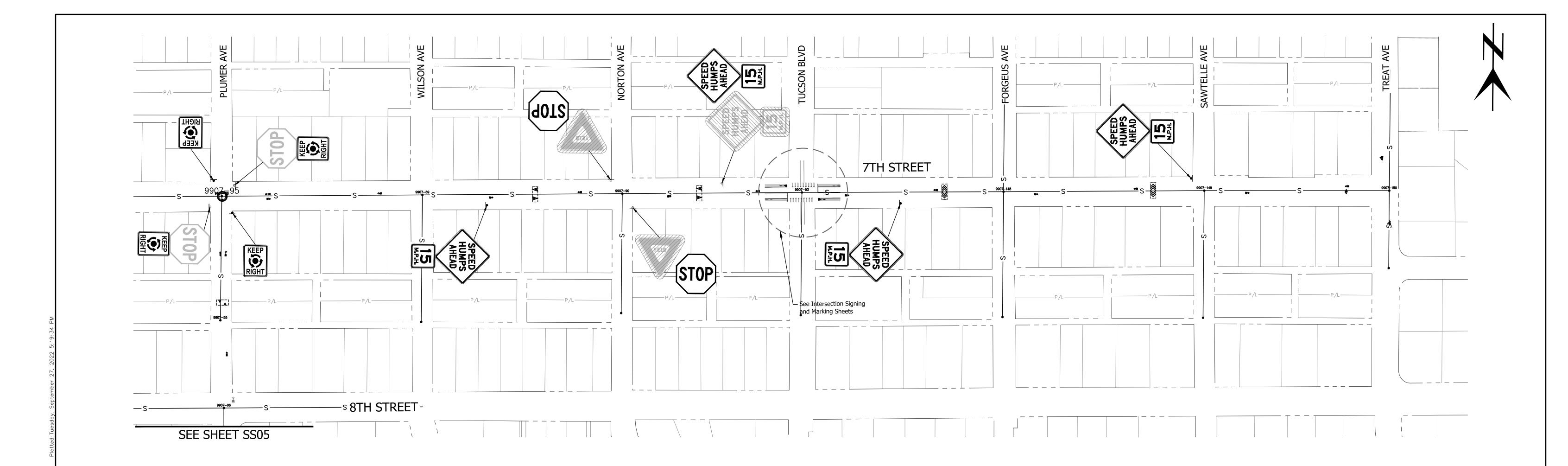
Existing sign post

New sign post



SS04 OF SS06





1. All existing signs shall be protected in place unless indicated otherwise.

See Sign Summary Tables for detailed information.

STOP

New sign pane

STOP

Existing sign panel to remain



Existing sign panel to be removed

Existing sign post

New sign post

								DEPARTMENT O	F TRANSPORTATI	ON/EN	NGINEERING DIVISIO	ON
		KIT & AS		CONGRESS CSON, AZ 8 5 20.544.4067			CITY OF TUCSON	SAINT MARYS RD TO FO	-	EUCLID A	YCLE BOULEVARDS VE, AND 4TH AVE TO TREAT AVE ING SHEETS	
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							60%					OF
							REVIEW					59
Contact Arizona 811 at least two full working days before you begin excavation							NOT FOR				TRANSPORTATION DIRECTOR	
							CONSTRUCTION				REF SCALE:1"	"=100'
Gall 811 or click Arizona811.com	NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.	OR RECORDING	DRWN, BY BDH 20 22 DSGN, BY	BDH 20 22 CHKD, BY FLG	20 22	PLAN NO. U-2022-006	5

SS06 OF SS06

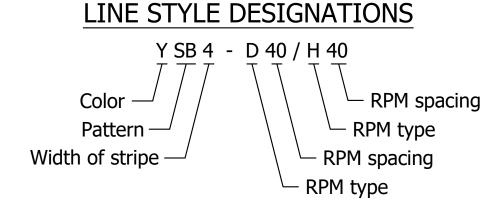
PAVEMENT MARKING GENERAL NOTES

- 1. All pavement markings shall conform to PC/COT Standards and Specifications.
- 2. The permanent pavement markings may be modified as directed by the Traffic Engineer or Designee.
- 3. The design vehicle for this project is a SU-40.
- 4. All lane dimensions are from the center of the lane, center of the double lane line, face of curb, or edge of pavement unless otherwise noted
- 5. The pavement marking drawings are schematic only. The contractor shall follow all dimensions, details, and standards when installing pavement striping, markings, and markers.
- 6. The final longitudinal striping shall be 90 mil (0.090") thick extruded thermoplastic reflectorized striping placed over the temporary striping within 15-30 calendar days after completion of the final pavement surface or as directed by the Traffic Engineer. All other markings shall be applied at the same time. Temporary striping shall be paint. Temporary paint shall be 15 mil (0.015") thick water based paint placed on the final pavement surface.
- 7. All final transverse markings shall be extruded 90 mil (0.090") thermoplastic striping. All green pavement marking shall be paint per special provisions. Bicycle legends shall be preformed thermoplastic pavement markings.
- 8. The contractor shall be responsible for the layout and installation of pavement markings on final surface course. The layout of all pavement markings shall be approved by the Traffic Engineer prior to the application of materials. The striping contractor shall contact COT Traffic Engineering at (520) 791-4259 at least three working days in advance of any pavement marking installation to schedule inspection and approval of layout.
- 9. It is the contractor's responsibility to ensure that the final surface course is placed so that the striping is offset no more than one foot clear of the construction joint, unless otherwise directed by the Traffic Engineer.
- 10. The contractor shall clean the roadway surface to the satisfaction of the Traffic Engineer by sweeping and air-jet blowing immediately prior to the placement of all pavement markings. The temperature shall not be less than 50°F for the placement of thermoplastic striping and 40°F for the placement of RPMs.
- 11. All raised pavement markers shall be installed so that the reflective face of each marker is facing the direction of traffic and is perpendicular to the direction of traffic flow.
- 12. At intersection approaches on roadways with medians, Type C RPMs shall be placed as per PC/COT Standards or as directing by the Traffic Engineer.
- 13. All removal of existing pavement markings shall be accomplished in accordance with Section 701 of the PC/COT Standard Specifications.
- 14. The Engineer of record shall be required to produce as-built striping plans within 90 days of striping completion.
- 15. Blue raised pavement markers shall be placed adjacent to fire hydrants as directed by the Engineer in the field.
- 16. Final inspection/acceptance of pavement markers shall be performed by the Traffic Engineer.
- 17. A meeting with the inspector and Traffic Engineer or Designee shall be scheduled to go over striping plans and striping changes a minimum of 48 hours in advance of striping activity.
- 18. Symbols and legends shall not be applied as temporary installations, unless directed by the Traffic
- 19. Painted curb (red no parking) will be considered incidental to other items of work.

SIGNING GENERAL NOTES

- 1. All signs shall be in compliance with the 2009 Edition of the Manual on Uniform Traffic Control Devices with the Arizona Supplement, the 2020 Edition of the Pima County and City of Tucson Traffic Signing Design Manual, the Special Provisions, and the plans.
- 2. Signs may be modified and locations adjusted to fit conditions as directed by the jurisdiction Traffic Engineer or Designee.
- 3. Post lengths indicated on sign summary sheets are approximate. The contractor shall verify actual post lengths.
- All new and existing signs shall be installed on perforated posts (square tube) and shall be installed in a concrete foundation, unless otherwise directed by the Traffic Engineer or Designee.
- All sign station locations are approximate. The contractor shall verify actual sign locations with the Traffic Engineer prior to the installation of all signs. The contractor shall be responsible for coordinating all work with Arizona 811 and for installing all traffic signs in the field.
- 6. All warning sign panels shall be fluorescent yellow Diamond-Grade (Type XI or equivalent) sheeting. All school zone signs shall be fluorescent yellow-green Diamond-Grade (Type XI or equivalent) sheeting. All street name signs and overhead mounted panels shall be ASTM Type XI sheeting. All other sign panels shall have High Intensity Prismatic Type IV sheeting.
- 7. All new signs shall have aluminum backing, unless otherwise specified.
- 8. All existing signs whose messages or locations are in conflict with new or proposed signs shall be removed and salvaged unless specifically called out to remain on the signing and marking plan sheets. In particular, all of the following signs shall be removed: "SPEED LIMIT 25" (R2-1), "BIKE ROUTE" (D11-1), and Route Marker Signs (M-6 series).
- 9. 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, (520) 791-3154. The contractor is responsible for unloading the salvaged material. Any salvaged sign that is to be reused shall be temporarily stored in a safe location until reinstallation.
- 10. Removal shall be in accordance with Section 202-3.06 of the 2003 PC/DOT Standard Specifications for Public Improvements.
- 11. Final inspection/acceptance of signing shall be performed by the jurisdiction Traffic Engineer or Designee.
- 12. The Posted Speed limit for the road(s) is 20 mph. Sign placement shall be based on the posted speed

APPROXIMATE PAVEMENT MARKING QUANTITIES								
ITEM DESCRIPTION	UNIT	QUANTITY						
Painted Stripe (White) (4" Equivalent)	LF							
Painted Stripe (Yellow) (4" Equivalent)	LF							
Painted Bike (Green)	SF							
Red Painted Curb (No Parking)	LF							
Bike Wayfinding Legends	EA							
Shared Lane Legend (Sharrow) EA								
Bike Symbol and Arrow	EA							



See PC/COT Signing and Pavement Marking Manual for Further Descriptions.

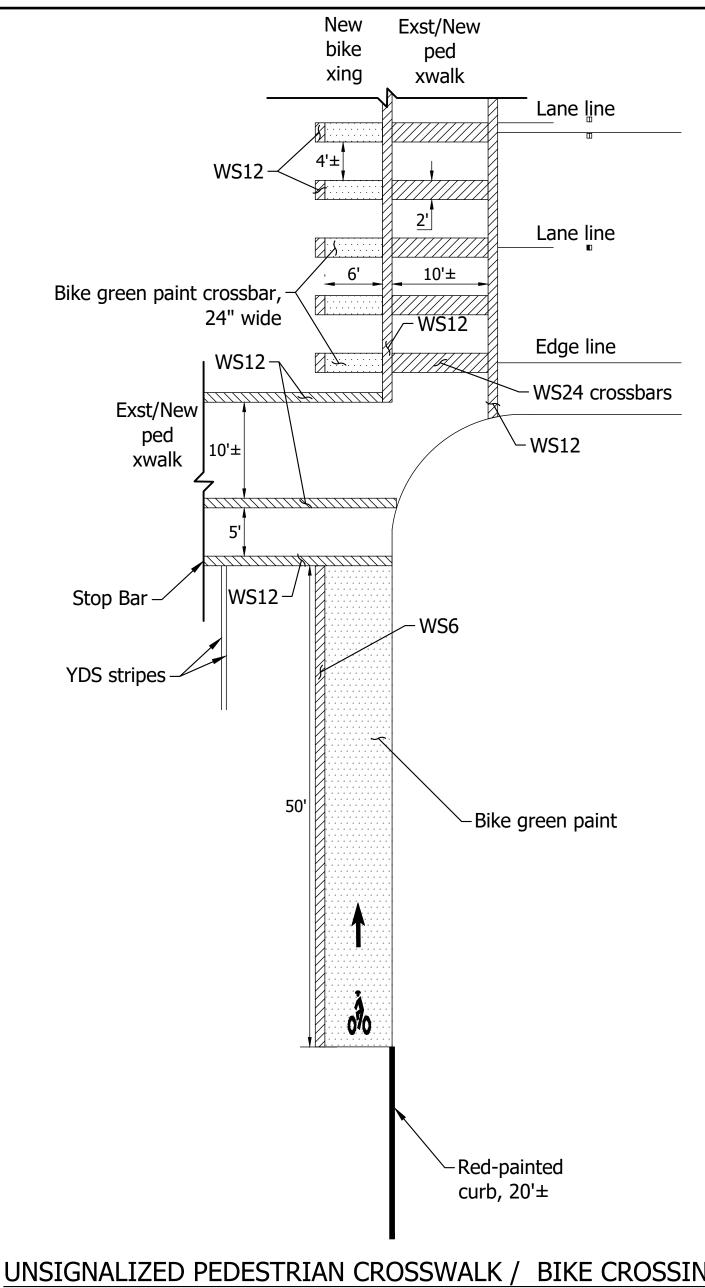
APPROXIMATE SIGNING QUANTITIES								
ITEM DESCRIPTION	UNIT	QUANTITY						
Sign Post (Perforated)	LF							
Foundation for Sign Post (Perforated)	EA							
Flat Sheet Aluminum Sign Panel (Type XI)	SF							
Remove and Reinstall Sign	EA							
Remove and Salvage Sign Panel	EA							
Remove Sign, Post, and Foundation	EA							

PAVEMENT MARKING & SIGNING GENERAL NOTES & DETAILS Sheet 1 of 4 SG01 of SG13

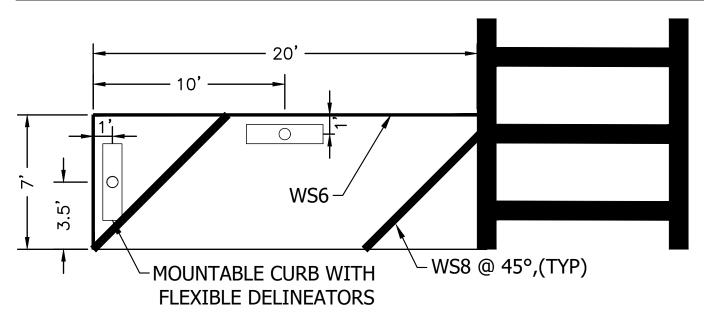
9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT AVE INTERSECTION SIGNING AND MARKING SHEETS APPROVALS TRANSPORTATION DIRECTOR

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION CITY OF TUCSON KITTELSON 2 E CONGRESS STREET, SUITE 705 TUCSON, AZ 85701 & ASSOCIATES P 520.544.4067 F 520.544.9616 **PRELIMINARY** 60% **REVIEW** NOT FOR AR ZONASII.

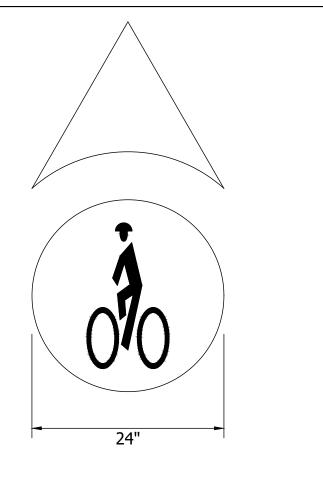
Call 811 or click Arizona811. CONSTRUCTION OR RECORDING U-2022-006 DRWN. BY BDH 20 22 DSGN. BY BDH 20 22 CHKD. BY FLG 20 22 PLAN NO.



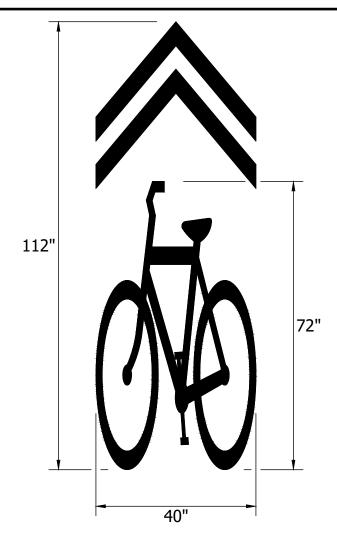
UNSIGNALIZED PEDESTRIAN CROSSWALK / BIKE CROSSING PAVEMENT MARKING TYPICAL LAYOUT DETAIL



TYPICAL DAYLIGHT AREA AT CROSSWALK



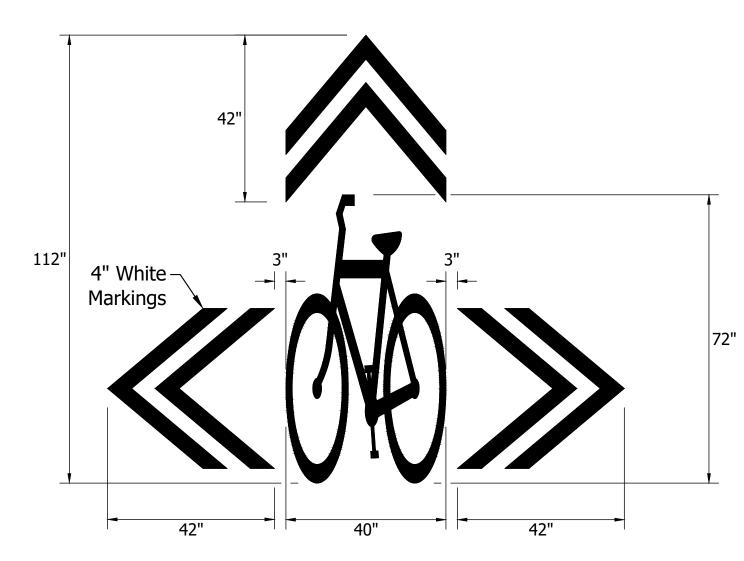
BIKE WAYFINDING LEGEND DETAIL



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

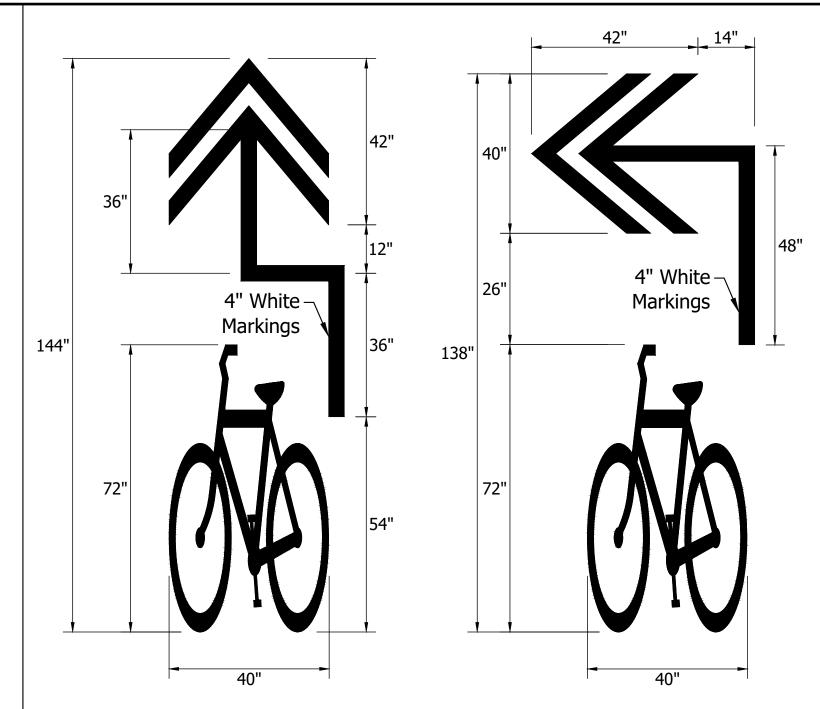
Stations for shared lane markings (sharrows) in the table on this page are approximate. Final placement shall be approved by the Engineer.

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

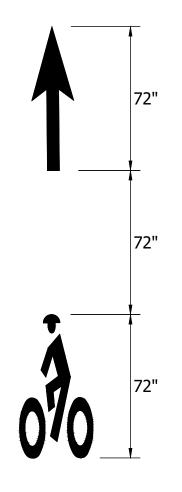


PC/COT Signing and Pavement Marking Manual, Sheet 3.2.4

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.

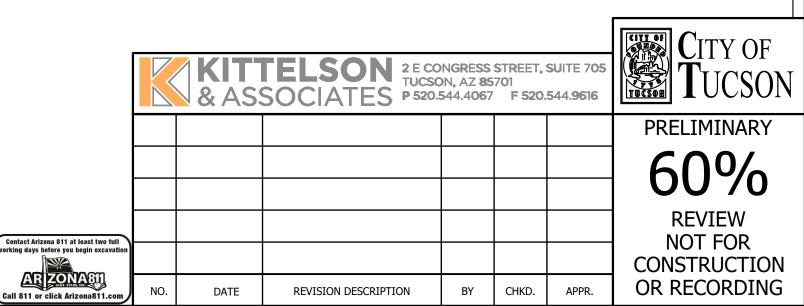
JOG/TURN SHARROW DETAIL

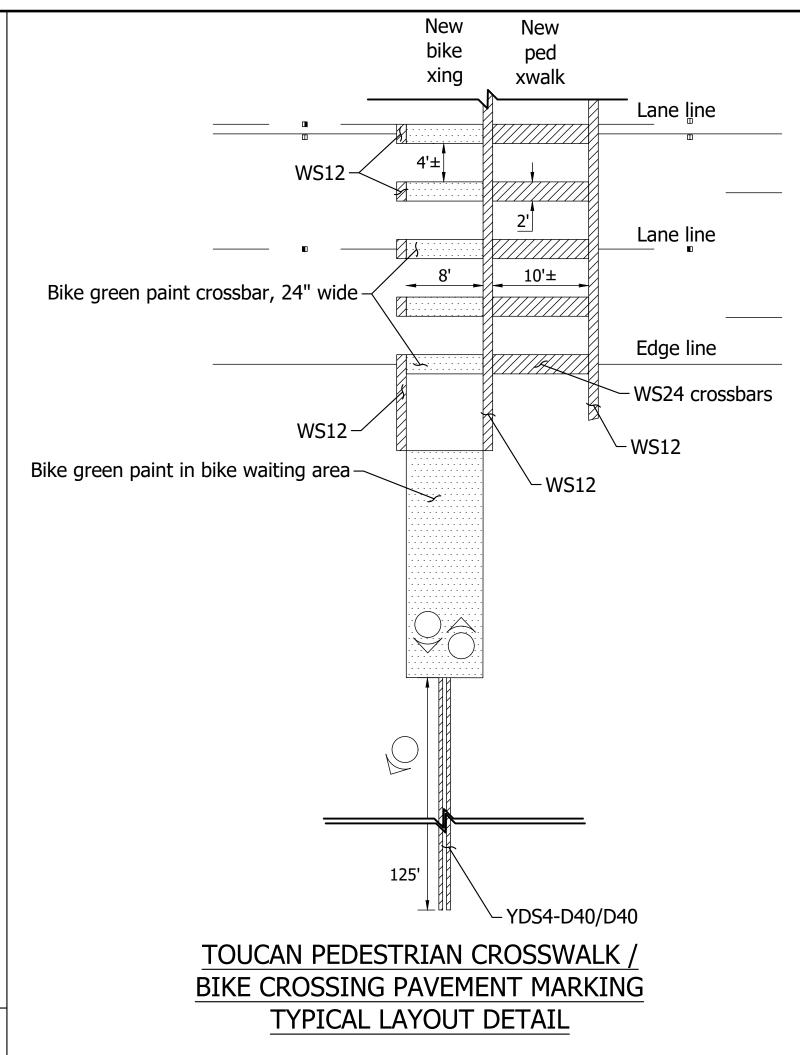


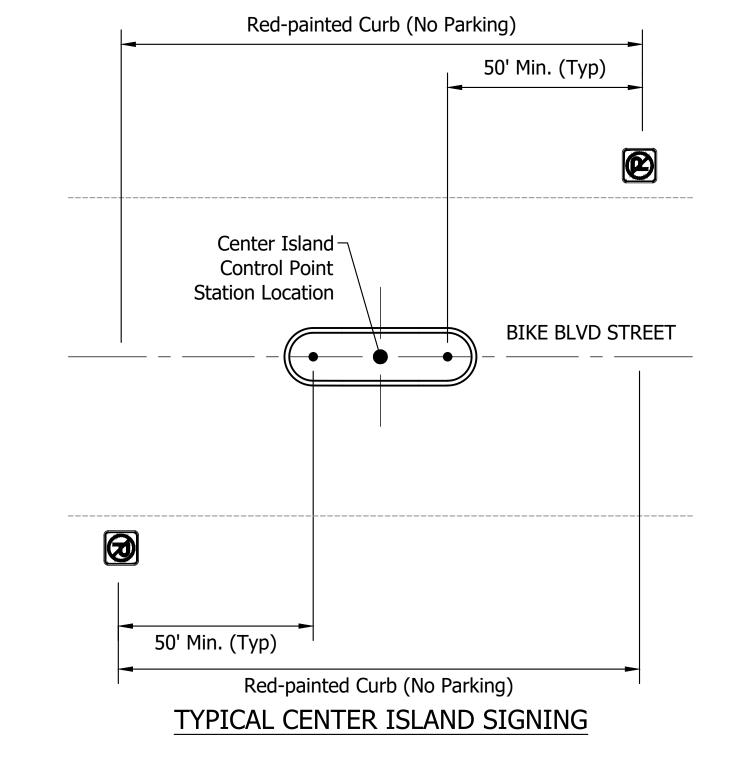
PC/COT Signing and Pavement Marking Manual, Sheet 3.2.4

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

BIKE SYMBOL AND ARROW DETAIL



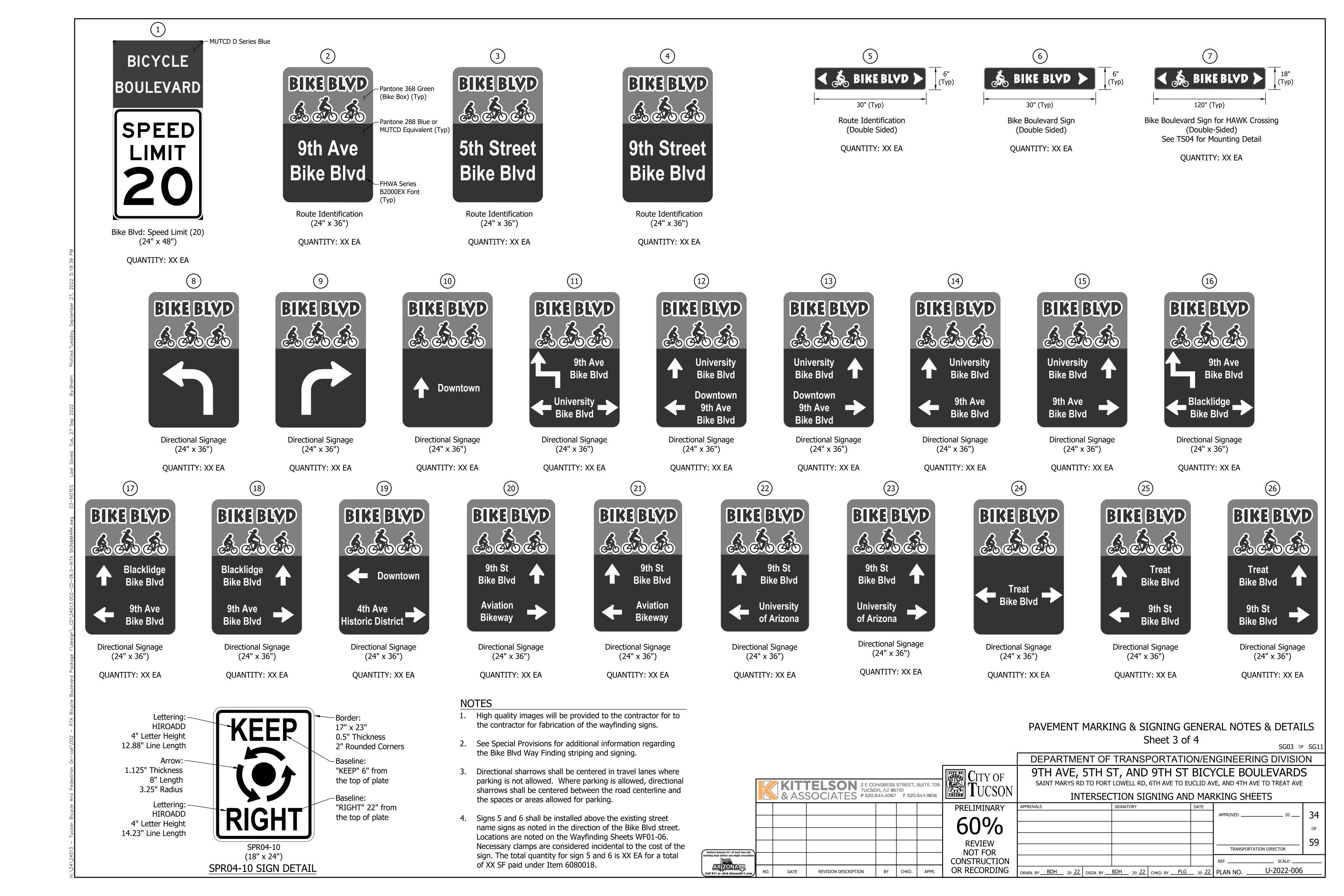


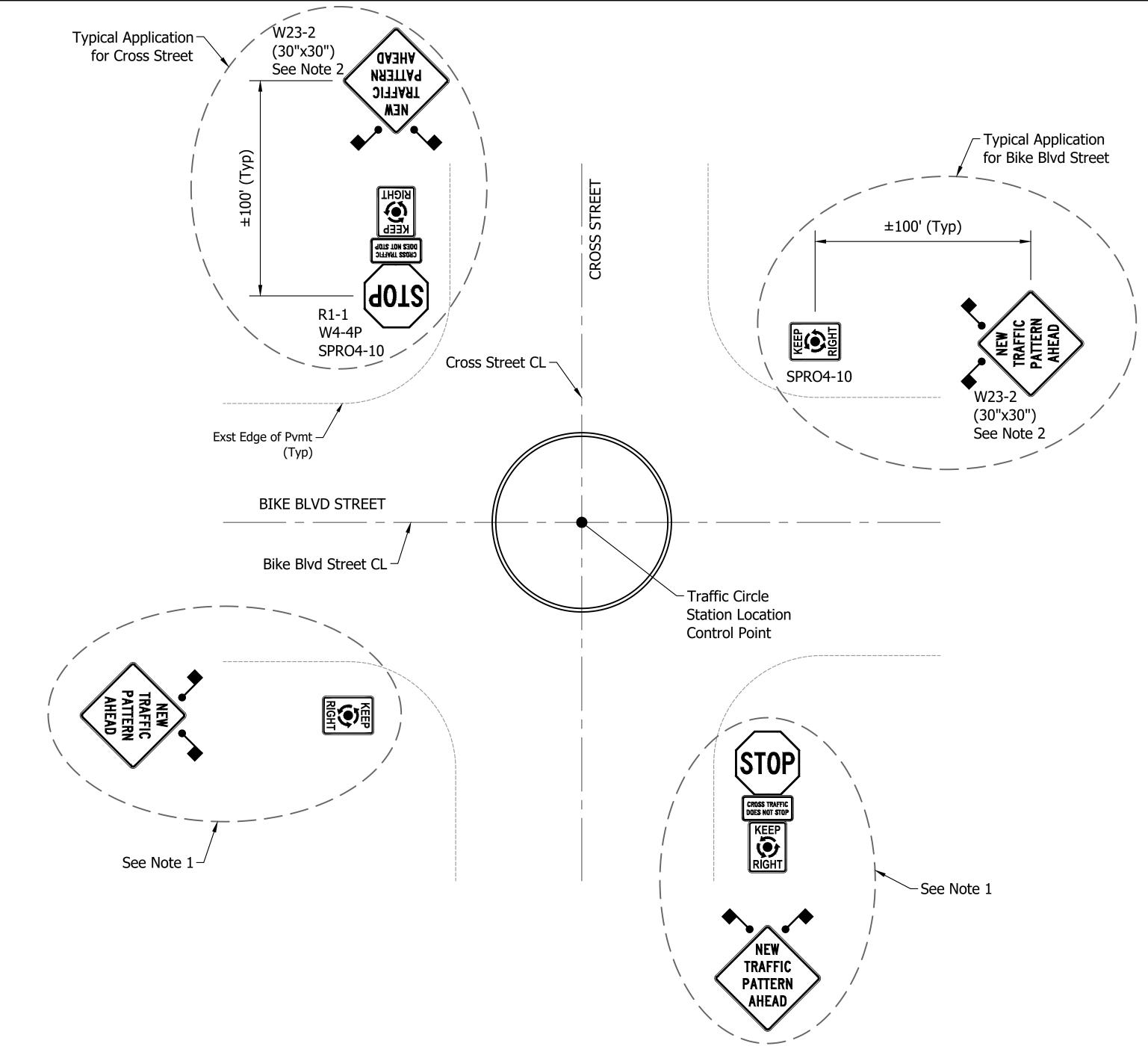


PAVEMENT MARKING & SIGNING GENERAL NOTES & DETAILS Sheet 2 of 4 SG02 OF SG13

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 SIGNATORY

APPROVALS 33 TRANSPORTATION DIRECTOR __ SCALE: __ OR RECORDING U-2022-006 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.



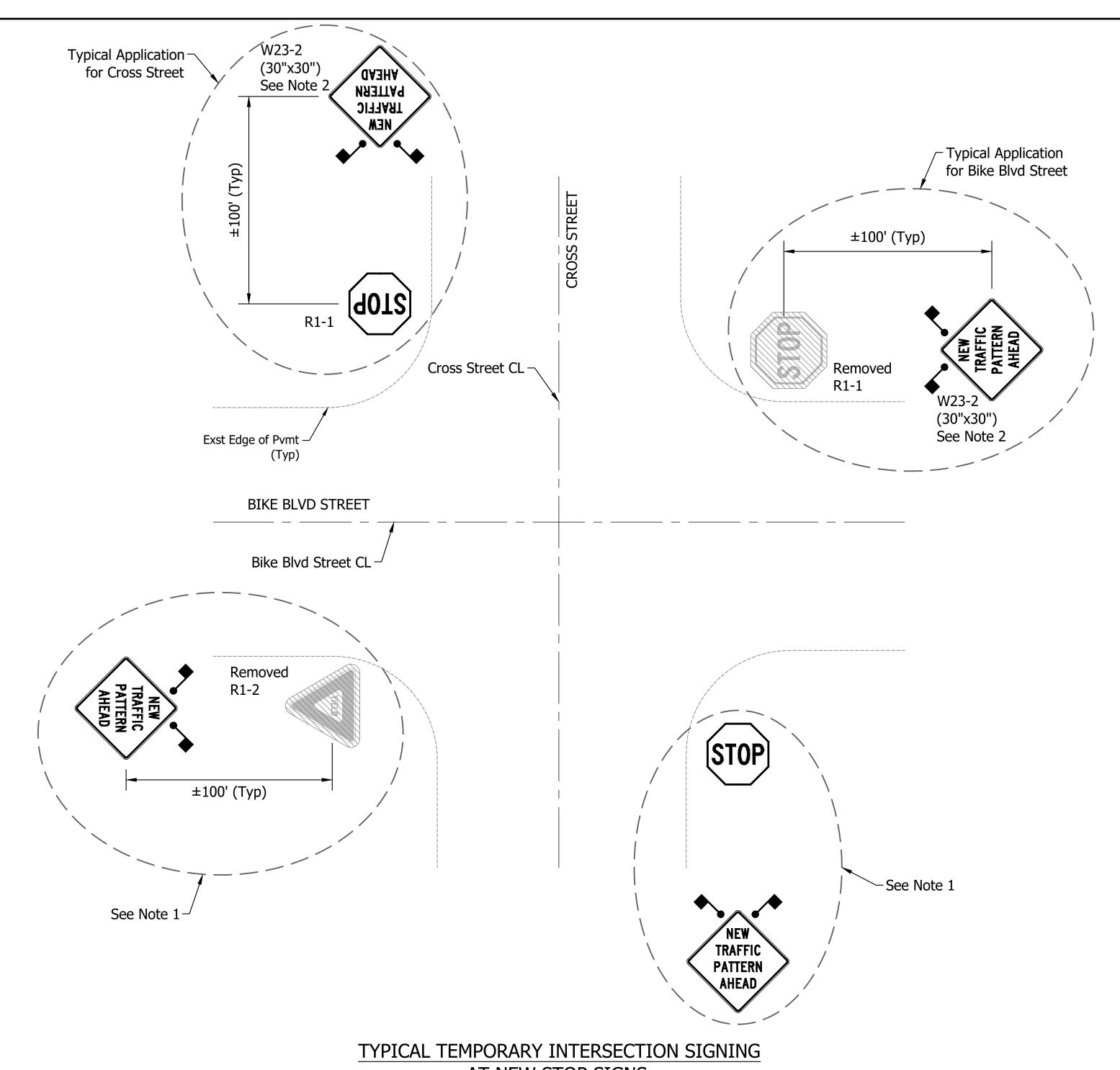


TYPICAL TEMPORARY INTERSECTION SIGNING AT NEW TRAFFIC CIRCLES.

NOTES

- 1. Sign spacing shall follow corresponding typical application as shown
- 2. NEW TRAFFIC PATTERN AHEAD signs with flags, shall be placed immediately after traffic circle is constructed and shall be used at all approaches. The contractor shall also provide signage (temporary or new) for all-way stop control for a minimum of two weeks. The NEW TRAFFIC PATTERN AHEAD signs shall be kept in place for an additional two-week minimum after final signage is in place.
- 3. For additional pavement marking and signing information not shown on this plan sheet, see PCDOT/COT Signing and Marking Standards Sheet 5.3.

	NEW TRAFFIC	CIRCLES
TC ##	Bike Blvd Street	Cross Street
01	10th Ave	Adams St
02	9th Ave	Lester St
03	9th Ave	Ventura St
04	Castro Ave	Alturas St
05	Castro Ave	Kelso St
06	Castro Ave	Laguna St
07	Balboa Ave	Delano St
08	5th St	Third Ave
09	9th St	First Ave
10	9th St	Park Ave
11	9th St	Warren Ave
12	9th St	Norris Ave
13	7th St	Plumer Ave



AT NEW STOP SIGNS.

NOTES

AR ZONASII.
Call 811 or click Arizona811.

- 1. Sign spacing shall follow corresponding typical application as
- 2. NEW TRAFFIC PATTERN AHEAD signs with flags, shall be placed immediately after stop sign or yield sign is removed and/or a new stop sign is installed and shall be used at all approaches. The contractor shall also provide signage (temporary or new) for all-way stop control for a minimum of two weeks. The NEW TRAFFIC PATTERN AHEAD signs shall be kept in place for an additional two-week minimum after final signage is in place.
- 3. For additional pavement marking and signing information not shown on this plan sheet, see PCDOT/COT Signing and Marking Standards Sheet 5.3.

REVISION DESCRIPTION

9th Ave	Norton A

NEW STOP CONTROL

Cross Street

First St

Fifth Ave

SG04 OF SG11

Bike Blvd

Street

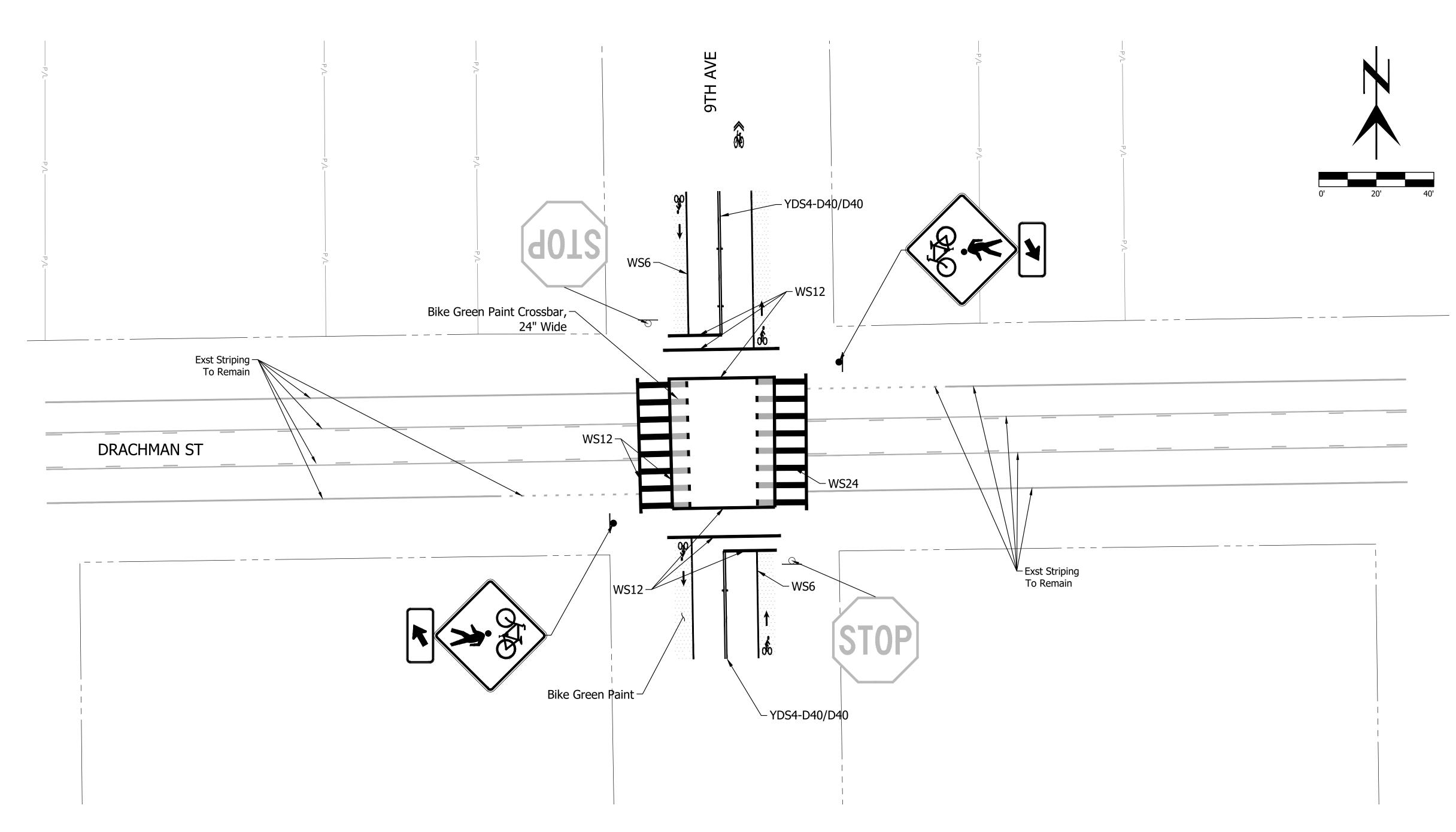
10th Ave

5th St

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 SIGNATORY APPROVALS 35 TRANSPORTATION DIRECTOR NOT FOR CONSTRUCTION ___ SCALE: ___ OR RECORDING U-2022-006 DRWN. BY BDH 20 22 DSGN. BY BDH 20 22 CHKD. BY FLG 20 22 PLAN NO.

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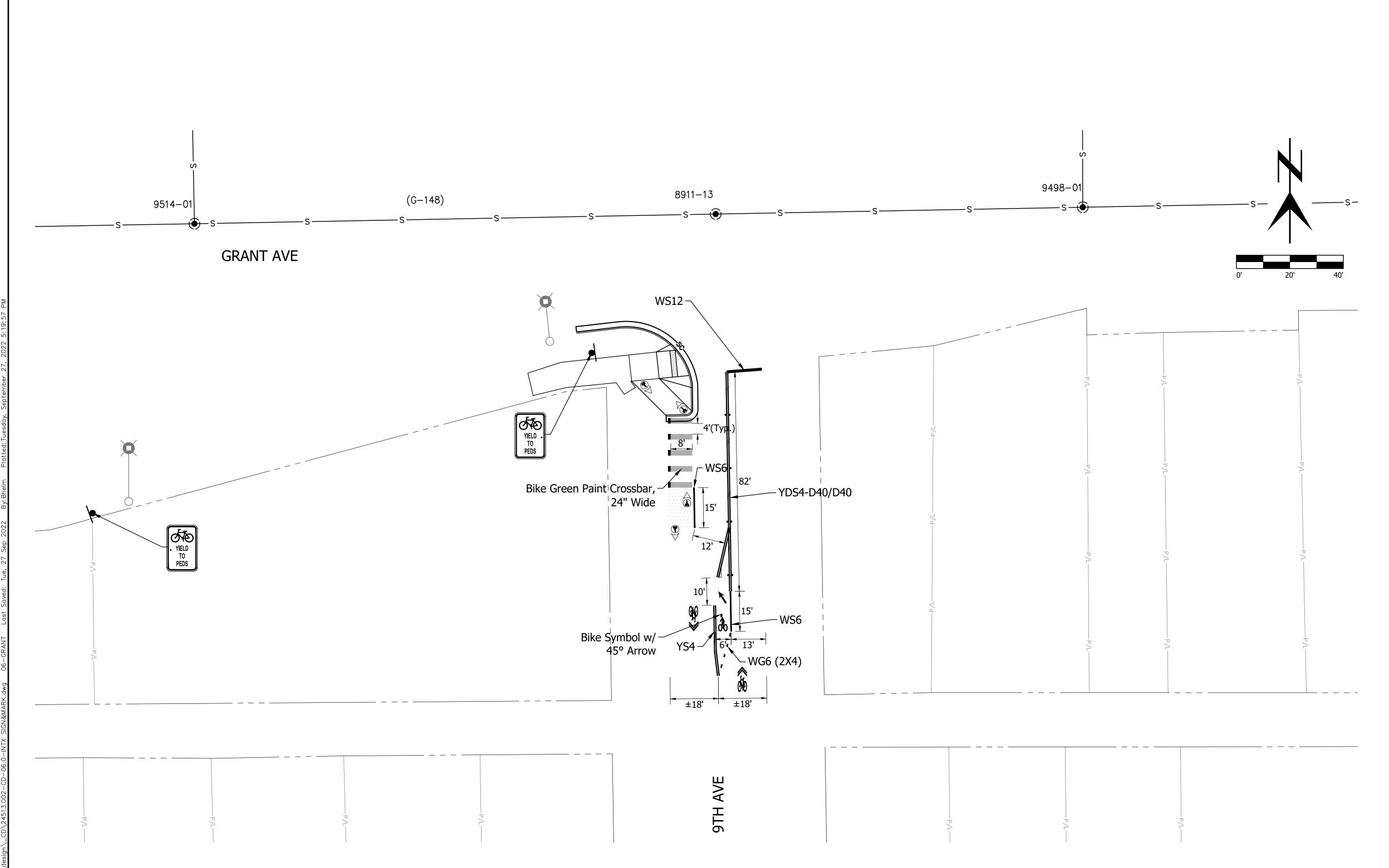


PAVEMENT MARKING AND SIGNING NOTES

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

SG05 of SG11
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

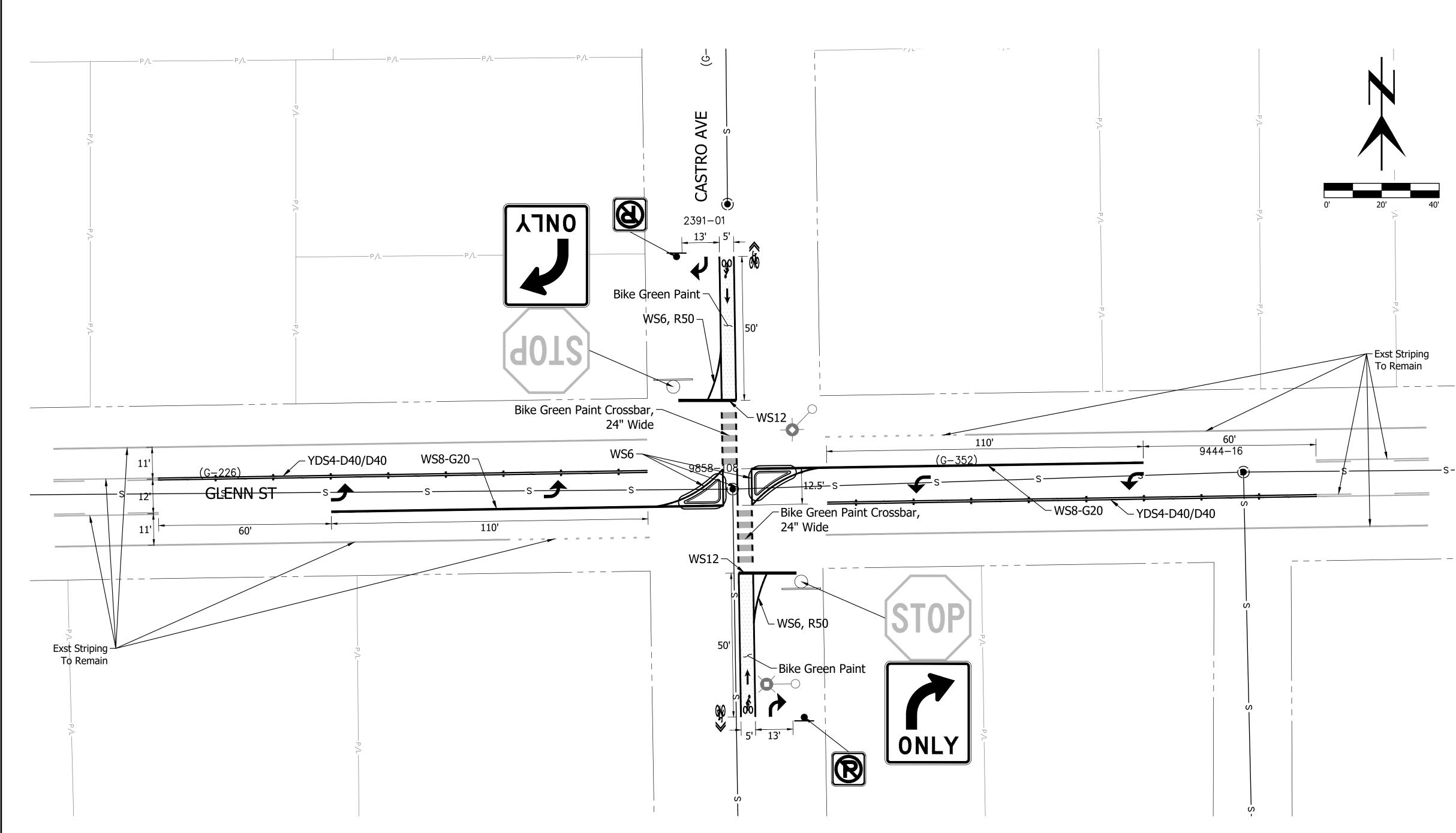
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ZONASII click Arizona811.com	NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.	OR RECORDING	DRWN. BY <u>BDH</u> 20 <u>22</u>	DSGN. BY BD	OH 20 22	CHKD. BY <u>FLG</u>	₂₀ <u>22</u>	2022 00.	



- 1. 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

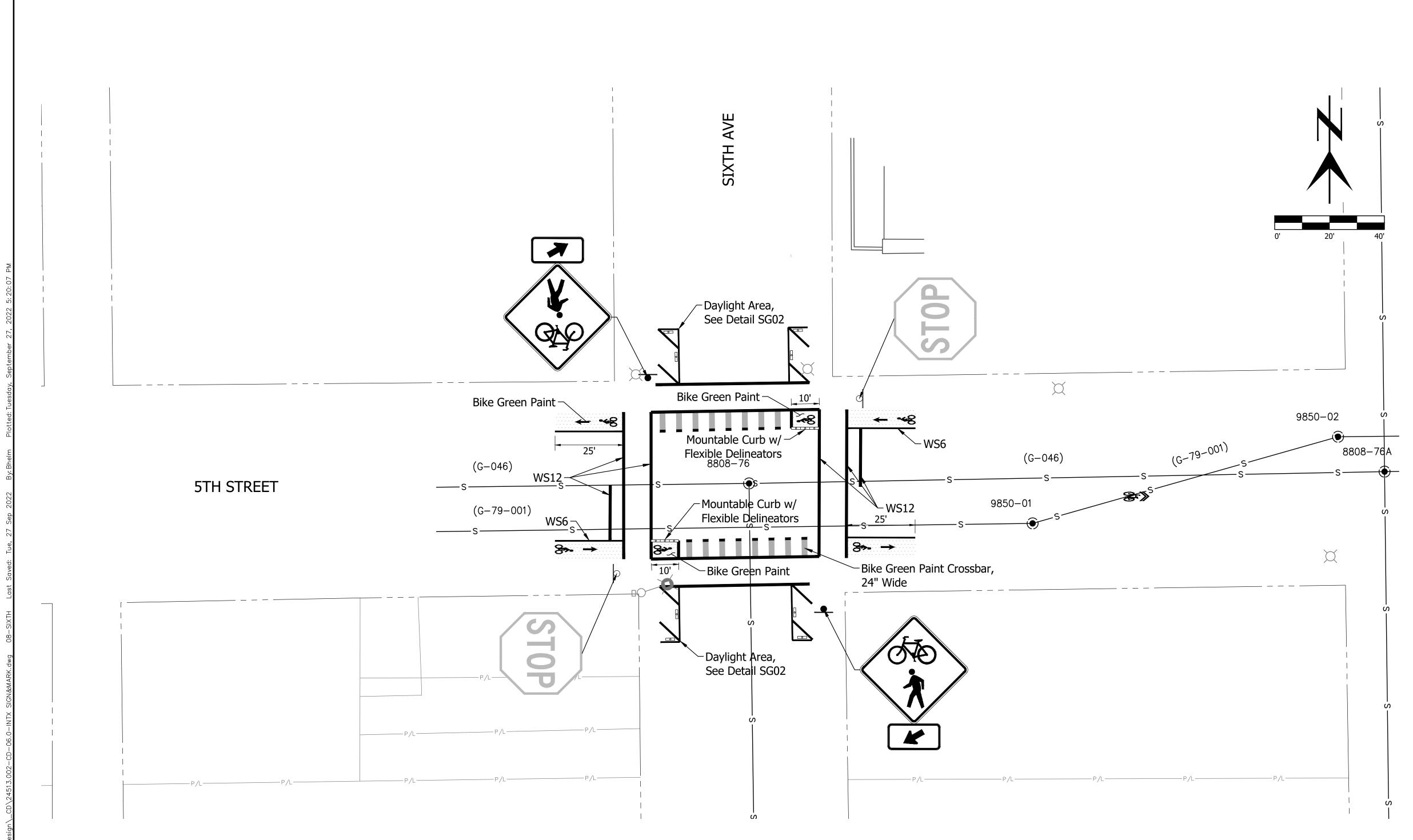
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- Contractor shall remove any thermoplastic markings from sewer manhole covers. The cost will be incidental to the project.
- For additional pavement marking and signing information not shown on this sheet see PCDOT/COT Signing and Marking Standards.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

SG07 of SG11

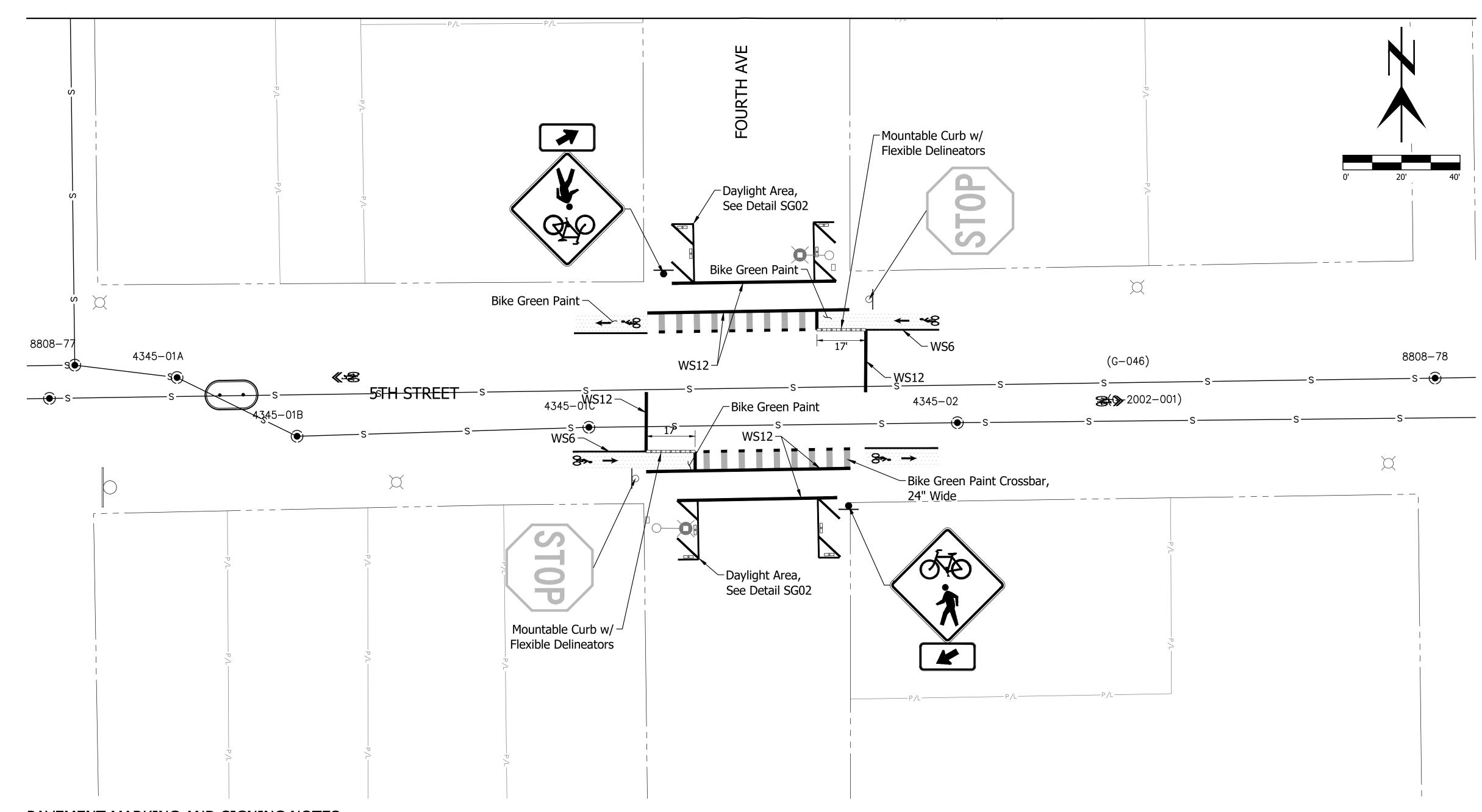
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- 1. Contractor shall remove any thermoplastic markings from sewer manhole covers. The cost will be incidental to the project.
- For additional pavement marking and signing information not shown on this sheet see PCDOT/COT Signing and Marking Standards.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

SC09 OF SC1

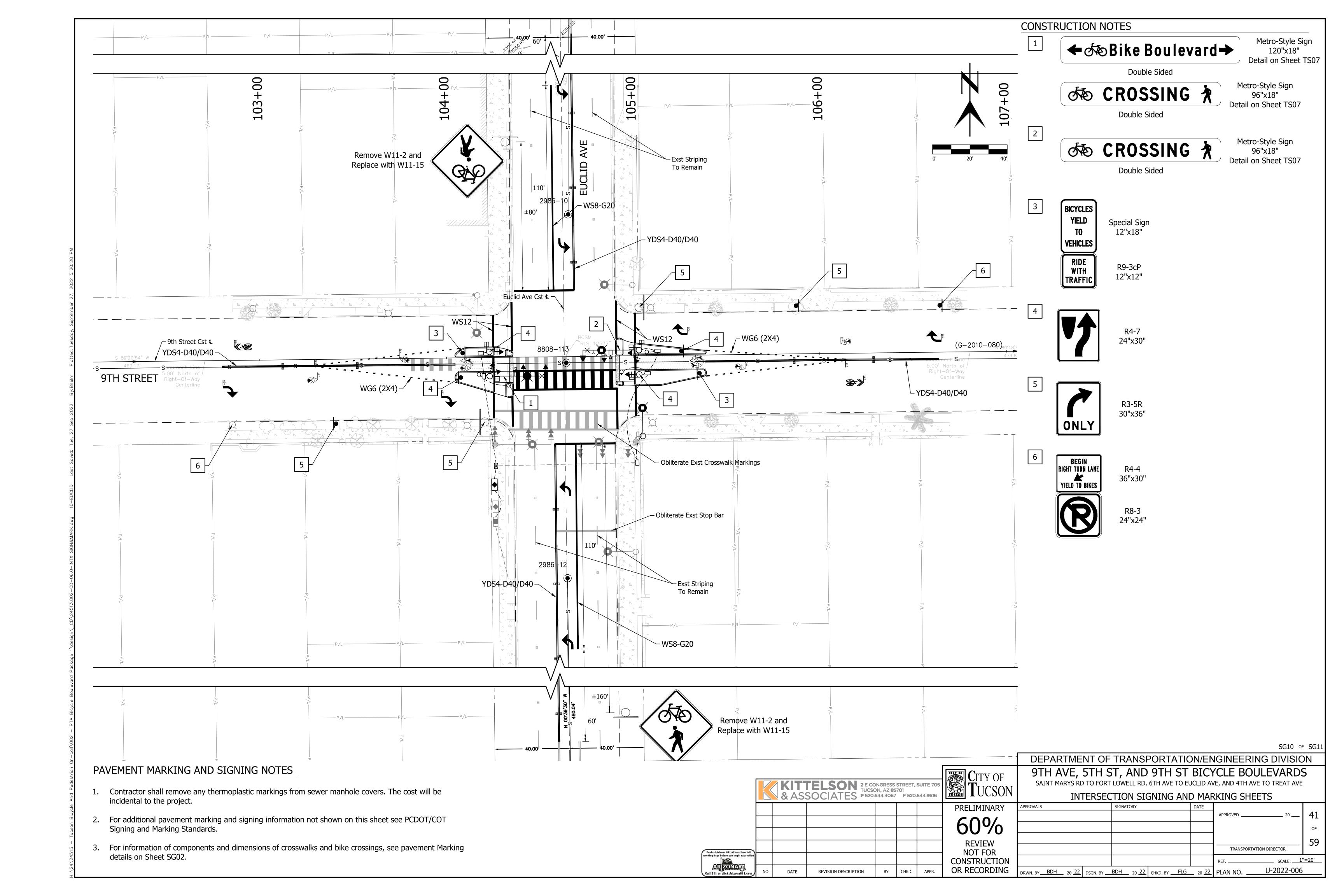
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Centact Arizona 811 at least two full working days before you begin excavation						NOT FOR CONSTRUCTION				REF SCALE:1	."=20'
Call 811 or click Arizona811.com	NO.	DATE	REVISION DESCRIPTION	BY CHKD.	APPR.	OR RECORDING	DRWN. BY BDH 20 22 DSGN.	BY BDH 20 22 CHKD. BY F	FLG 20 22	PLAN NOU-2022-006	5

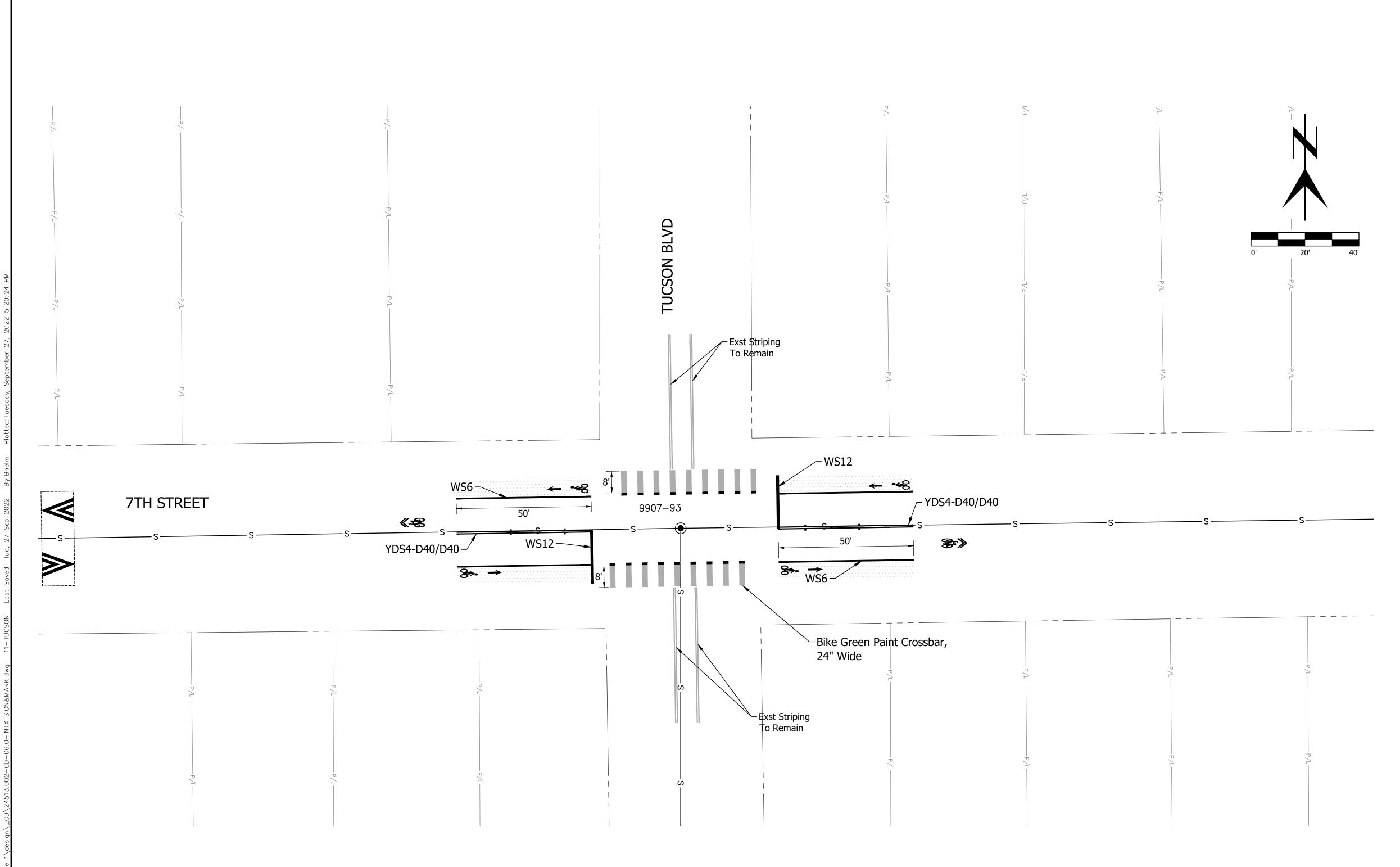


- 1. Contractor shall remove any thermoplastic markings from sewer manhole covers. The cost will be incidental to the project.
- 2. For additional pavement marking and signing information not shown on this sheet see PCDOT/COT Signing and Marking Standards.
- 3. For information of components and dimensions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

SG09 OF SG11

							DEPARTMENT (OF TRANSPORTAT	ION/EN	IGINEERING DIVISION	NC
		KIT & AS	TELSON 2 E CO TUCSO SOCIATES P 520.	DNGRESS STREET, DN, AZ 8 5701 544.4067 F 520	SUITE 705 544.9616	CITY OF TUCSON	SAINT MARYS RD TO FO	-	EUCLID A	CLE BOULEVARD VE, AND 4TH AVE TO TREAT AVE RKING SHEETS	
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- 1. 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.
- 3. For information of components and dimensions of crosswalks and bike crossings, see pavement Marking details on Sheet SG02.

SG11 OF SG11

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

		KIT & AS	TELSON 2 E CO TUCSO SOCIATES P 520.	ONGRESS ON, AZ 8 5 544.40 6 7	STREET, 5701 ' F 520.	SUITE 705 544.9616	CITY OF TUCSON	SAINT MARYS RD	TO FORT LOWELL RD	, 6TH AVE TO EL	JCLID AV	CLE BOULEVARD VE, AND 4TH AVE TO TREAT AV RKING SHEETS	
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Statio	n Offset Sign Code	Legend	New Remove Remain Relocate	Width (in) Height (in)	Area (sq. ft.) Min Sheeting Type Number of Posts	Location / Remarks	Station Offset Sign Code	Legend &	Remain six Relocate Width (in)	Jag 1	Min Sheeting Type Number of Posts Total length (ft)	Location / Remarks
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SM01 OF SM01

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GENERAL TRAFFIC SIGNAL AND LIGHTING NOTES

- 1. 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.
- 2. 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.
- 3. 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.
- 4. Only new conduit and cable shall be installed, unless otherwise specified.
- 5. 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.
- 6. Any conduit installed shallower than the minimum below finished grade shall be encased in concrete per Standard Specification 732-3.01 (G).
- 7. All new and existing conduits shall be cleaned by compressed air and a properly sized conduit piston or mandrel prior to cable installation.
- 8. 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.
- 9. 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.
- 10. High voltage cables should be separated from low voltage cables as much as possible.
- 11. A (#14) AWG 16 conductor IMSA cable shall be installed from each traffic signal terminal strip (unspliced) to the traffic signal cabinet.
- 12. 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.
- 13. 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.
- 14. 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.
- 15. 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.
- 16. 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.
- 17. 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.
- 18. 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.
- 19. 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.
- 20. 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.
- 21. The contractor shall contact Arizona 811 at 1-800-782-5348 a minimum of 48 hours prior to any excavation.
- 22. 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.
- 23. The traffic signal operation at existing signalized intersections shall be maintained throughout the duration of the project.

EQUIPMENT NOTES

- 1. 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.
- 2. 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.
- 3. 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.
- 4. All mast arm signal heads shall have the yellow metal housing with black aluminum louvered backplates.
- 5. Luminaires shall be American Electric Lighting LED Autobahn ATB2 Series, 173W, 120V, Type 3, 3000 KCCT with a 7-pin Roam Node connector.

RESPONSIBILITIES

- 1. 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.
- 2. 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.
- 3. 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

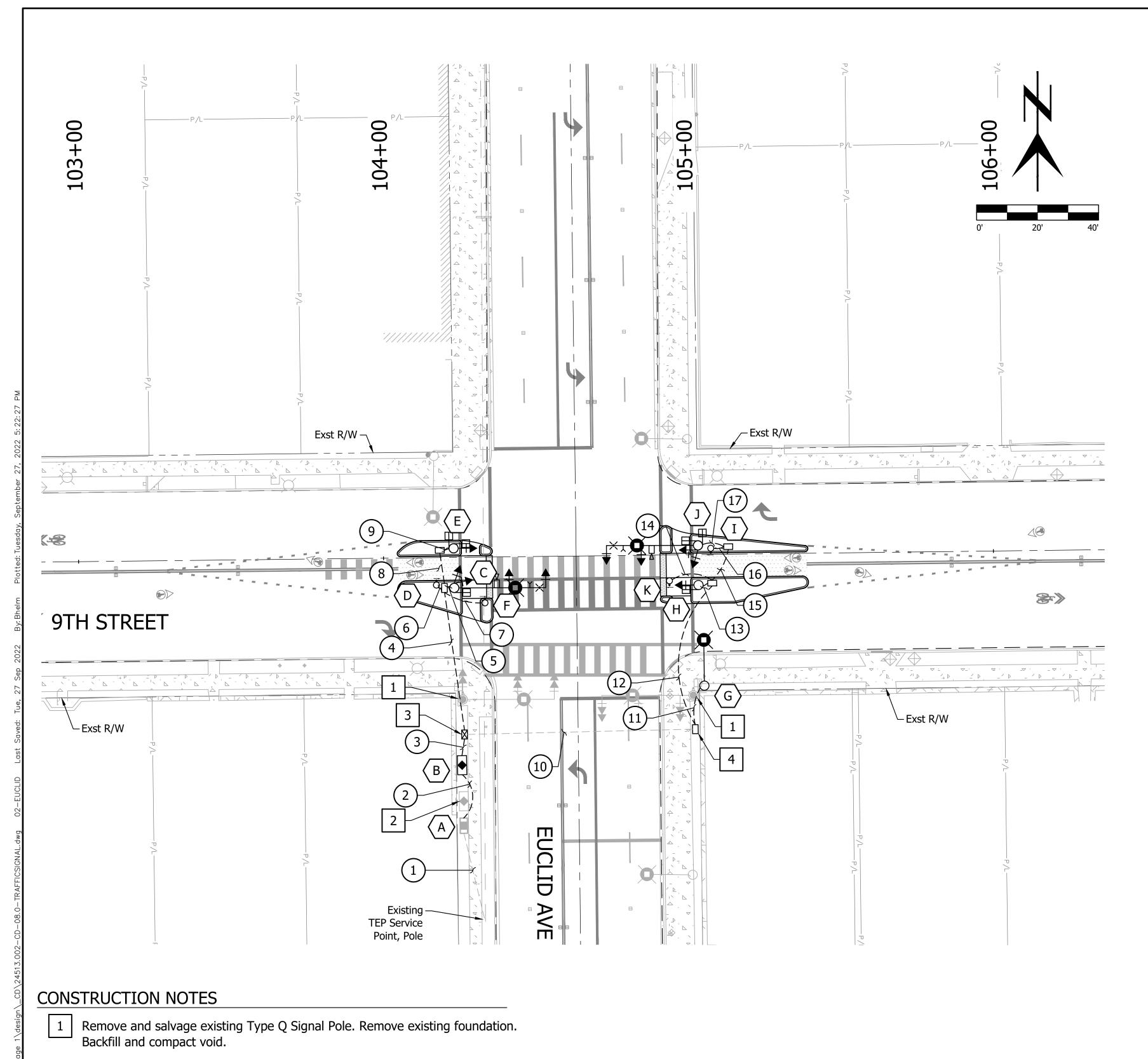
The contractor's attention is directed to A.R.S. 40-360.41 through 360.44 for restrictions on work in the vicinity of overhead power lines. The contractor shall not operate power equipment placed so that any extension of the equipment and/or load carried by the equipment can reach to within ten (10) 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.

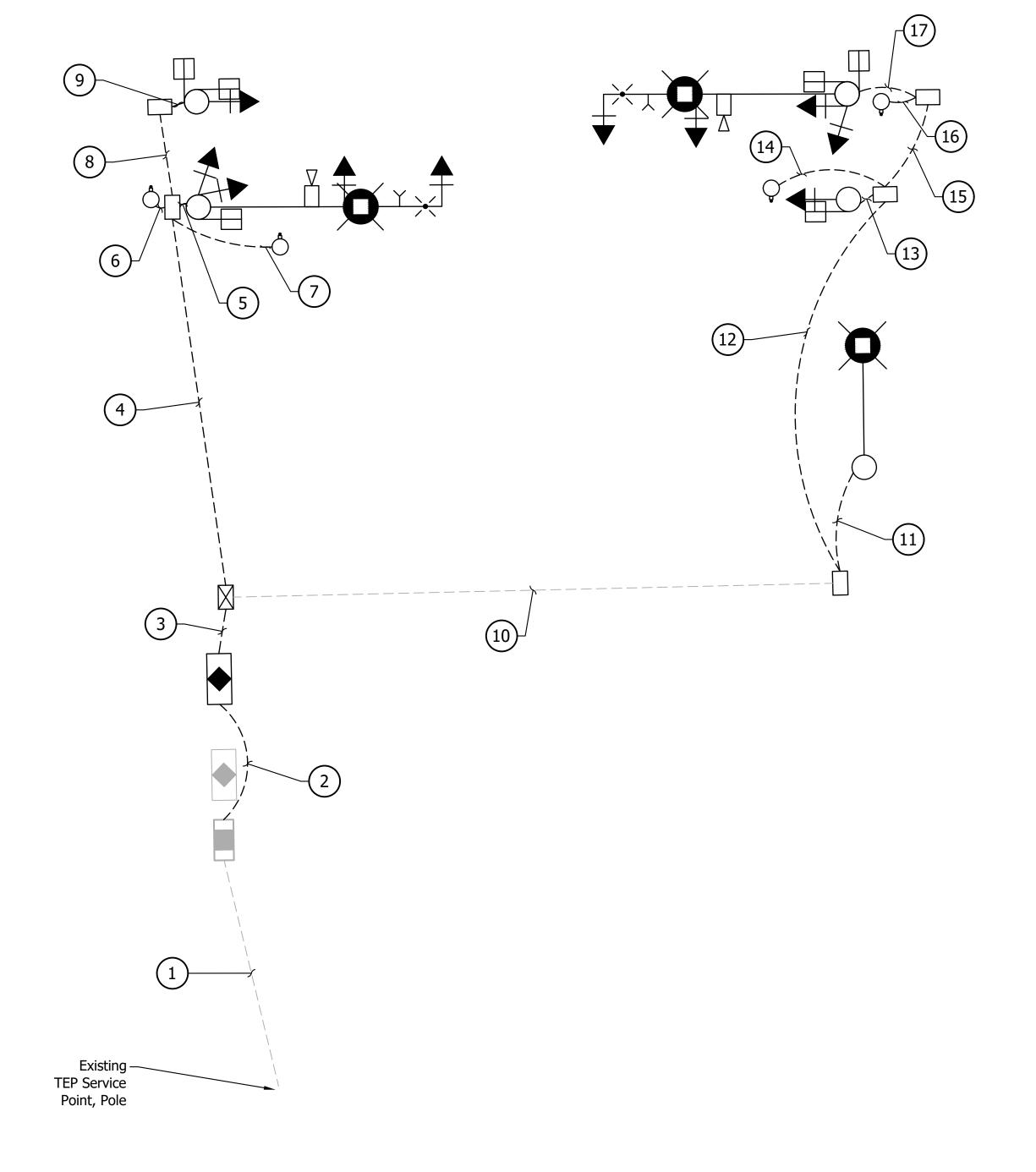
LEGEND	PROPOSED	EXISTING
Traffic Control Cabinet with Foundation		
Metered Service Pedestal with Foundation		
Traffic Signal Pole		
Traffic Signal Face	→▶	→
Pedestrian Signal	O _{II}	O _E
Bicycle Signal	OB	O_B
Pushbutton	•	○ >>
Luminaire Pole	O	O
Pull Box No. 3-1/2	\Diamond	\Diamond
Pull Box No. 5		
Pull Box No. 7		
Pull Box No. 7 with Extension	\bowtie	

TS01 of TS04

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

		KIT & AS	TELSON 2 E CO TUCSO SOCIATES P 520.	ONGRESS ON, AZ 8 : 544.4067	STREET, 5701 7 F 520.	SUITE 705 544.9616	CITY OF TUCSON	SAINT MARYS RD TO	•	/E TO EUCLID AV	CLE BOULEVARD YE, AND 4TH AVE TO TREAT AVE ENERAL NOTES	
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- 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.

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

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

TRAFFIC SIGNAL PLAN SHEETS

PRELIMINARY

APPROVALS

SIGNATORY

OF

REVIEW

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CONSTRUCTION

OR RECORDING

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

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TS02 of TS04

	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	1	T 203										

						POLE SCHEDULE				
	POLE		МА	ST ARM	SIG	NALS	PED/BIKE PUSHBUTTON	LUMINAIRE	LOCATION	REMARKS
	NUMBER	TYPE	SIGNAL	LUMINAIRE	FACE	MOUNTING				
C	F Bike Y 12'	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	ð	PPB POST - TYPE I T 419	-	-		-	(1) TYPE I 2" ADA T 1101 BIKE T 1103	-		
(E)	F Bike	A - 10' T 401		(1) F BIKE T 801 (2) PED T 804	(1) IV T 903 (2) XI T 909	-	-			
F	Ō	PPB POST - TYPE I T 419	B POST - TYPE I		-	-	(1) TYPE I 2" ADA T 1101 R10-4b(L) T 1104	-		
G	○	TYPE 1 T 444	-	15'	-	-	-	SEE EQUIPMENT NOTE 5 SHT TS01		
$\langle H \rangle$	F Bike	A - 10' T 401	-	-	(1) F BIKE T 801 (2) PED T 804	(1) IV T 903 (1) XI T 909	-	-		
(I)	Q	PPB POST - TYPE I T 419	-	-	-	-	(1) TYPE I 2" ADA T 1101 BIKE T 1103	-		
J ;	12' F Bike	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	\bigcirc	PPB POST - TYPE I T 419	-	-	-	-	(1) TYPE I 2" ADA T 1101 R10-4b(L) T 1104	_		

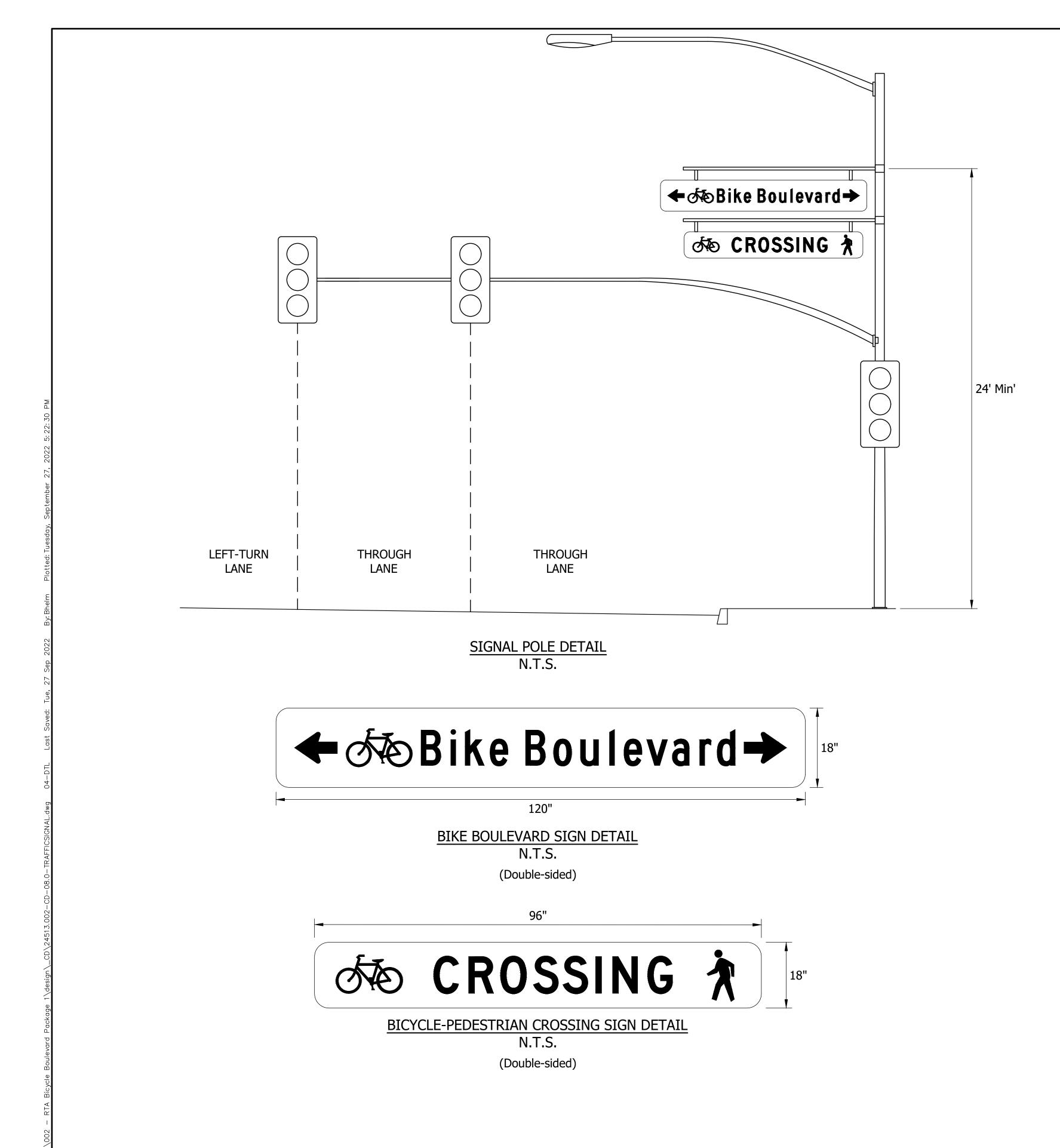
	CONDUIT AND CONDUCTOR SCHEDULE																	
	CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13)	14)	15)	16)	17)
(CONDUIT SIZE (INCHES)	21/2	2	3(4)	2(4)	3	2	2	2(4)	2	2(4)*	2	2(4)	2	2	2(4)	2	3
	CIRCUIT PHASE																	
(#14) 16 CONDUCTOR IMSA CABLE	BLACK-PED SIGNAL WALK WHITE-SIGNAL COMMON RED-AØ 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	EXIST SERVICE CONDUCTORS				(C)			E	E	H		H	H				1
#14 7CC IMSA				4	2		1	1			2		2		1	1	1	
#8 BARE	EQUIPMENT GROUND			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
#10 THW	STREET LIGHT CIRCUIT #1 (BLACK) STREET LIGHT COMMON (WHITE)			1 1 1 1	1 1	1 1					1 1 1	1	1 1 1			1 1 1		1 1 1
#4 WHT	POWER HOT (RED) (BLACK) POWER NEUTRAL (WHITE)		2															
TOMAR M913	PRE-EMPT SENSOR PRE-EMPT SENSOR E W			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 TS0

							DEPARTMEN	NT OF TRANSPORTA	ATION/EI	NGINEERING DIVISION	NC
	KIT	TELSON 2ECC	NGRESS	STREET,	SUITE 705	CITY OF TUCSON	1	•		YCLE BOULEVARD VE, AND 4TH AVE TO TREAT AVE	
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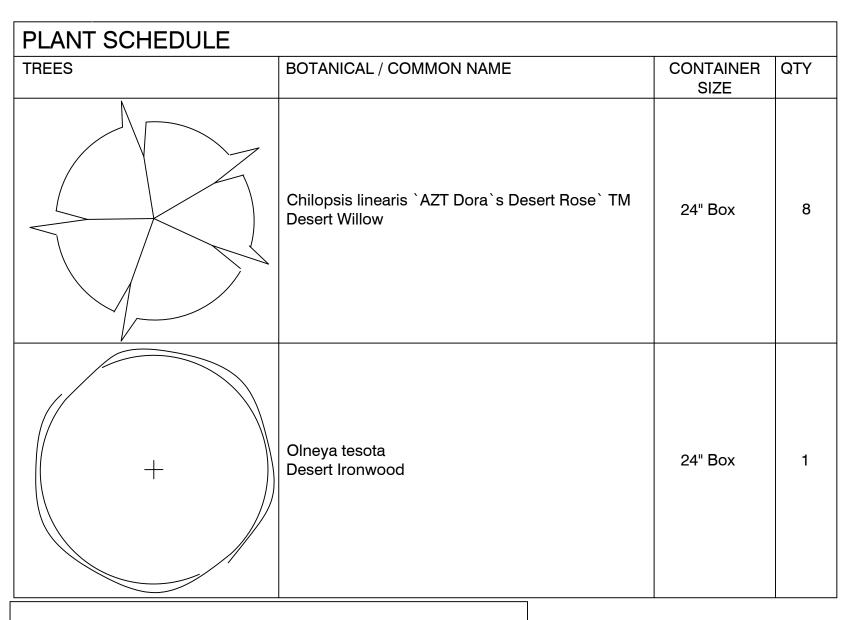




RED YELLOW Green IN.T.S.

TS04 OF TS04

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		KIT & AS	TELSON 2EC TUCS SOCIATES P 520	ONGRESS ON, AZ 8 5 .544.4 06 7	STREET, 701 F 520.	SUITE 705 544.9616	CITY OF TUCSON	1	9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVAR SAINT MARYS RD TO FORT LOWELL RD, 6TH AVE TO EUCLID AVE, AND 4TH AVE TO TREAT TRAFFIC SIGNAL DETAILS						
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Call 811 or click Arizona811.com	NO. DATE REVISION DESCRIPTION BY CHKD. APPR.		OR RECORDING	DRWN. BY <u>BDH</u> 20 <u>22</u> DSGN. BY	BDH 20 22 CHKD. BY FLC	<u>3</u> 20 <u>22</u>	PLAN NO U-2022-006	<u> </u>							



01/2:		Ta:	1
SHRUBS	BOTANICAL / COMMON NAME	SIZE	QTY
+	Asclepias subulata Desert Milkweed	5 gal.	14
+	Calliandra eriophylla Sonoran Fairy Duster	5 gal.	24
	Dalea frutescens Black Dalea	5 gal.	2
+	Dasylirion wheeleri Desert Spoon	5 gal.	6
	Ericameria Iaricifolia Turpentine Bush	5 gal.	18
	Fouquieria splendens Ocotillo	15 gal.	26
	Justicia californica Chuparosa	5 gal.	9
	Larrea tridentata Creosote Bush	5 gal.	6
*	Simmondsia chinensis Jojoba	5 gal.	9
*	Sphaeralcea ambigua Desert Globemallow	5 gal.	85
CACTI	BOTANICAL / COMMON NAME	SIZE	QTY
	Ferocactus wislizenii Fish Hook Barrel Cactus	1` Ht.	26
	Opuntia santa-rita Santa Rita Prickly Pear	5 gal.	14
GRASSES	BOTANICAL / COMMON NAME	SIZE	QTY
	Muhlenbergia emersleyi Bullgrass	5 gal.	33
	Muhlenbergia rigens Deer Grass	5 gal.	17
· · · · · · · · · · · · · · · · · · ·	•		_

HARDSO	HARDSCAPE SCHEDULE												
SYMBOL	DESCRIPTION	QTY	COLOR										
	2` x 2` Boulder	21	Santa Fe Brown										
	3` x 3` Boulder	15	Santa Fe Brown										
	Desert Cobble	474 sy	Santa Fe Brown										
	Grouted Rip Rap	141 sy	Santa Fe Gold										
· • • • • • • • • • • • • • • • • • • •	Decorative Concrete (Exposed Aggregate)	208 sf	N/A										
(not shown in plans)	Decorative Concrete (Concrete and Stencil)	568 sf	N/A										
(not shown in plans)	Mulch	14 cy	N/A										

LANDSCAPE GENERAL NOTES

- 1. Plant and hardscape material installed outside of 5' radius from center of traffic circles shall have a height of less than eighteen inches (18") (mature height plants).
- 2. No plant or hardscape material shall be located on hand placed grouted riprap.
- 3. The work shall be done in accordance with the Plans, Special Provisions and the Standard Specifications and Details for Public Improvements, PAG 2016 Edition. Contractor is responsible to obtain copies of the above, as well as all other standards and specifications which may be necessary to completely and accurately interpret these plans.
- 4. All quantities listed are approximate. They are shown for the contractor's convenience. It is the contractor's responsibility to generate a bid estimate based upon the project plans and the actual quantity of plant symbols shown on the plans. In case of discrepancy, quantities shown on plan will prevail.
- 5. All plant materials shall comply with the latest amended edition of the "Arizona Nursery Association recommended tree specifications" sizes for caliper, height and width unless otherwise indicated on these plans.
- 6. Refer to Special Provisions for additional requirements not shown on drawings.

Areas where Decorative Concrete is installed will receive a decorative concrete aesthetic treatment.

UTILITIES/SETBACKS

- 1. The Contractor shall be responsible for locating and protecting all underground utilities, pipes and structures prior to starting work. Contractor shall take sole responsibility for any cost incurred due to damage of these utilities during the landscape installation.
- 2. Contractor shall not cover manholes and survey monuments with plating material or riprap. Refer to Traffic Circle Details.
- 3. All plant material located within ten (10) feet horizontally of the public sanitary sewer and manholes and/or within the public sewer easements shown hereon shall be in accordance with the planting guidelines contained within Section 7.7, PCRWRD Engineering Design Standards, 2016 Edition and Detail RWRD 111, SSDC current editions.
- 4. Trees shall be located to avoid conflicts with overhead and underground utilities.
 - a. Sewer: Tree trunks shall be 16' min. from manholes, and all parts of trees shall be 10' min. from sewer lines.
 - b. Gas: Tree trunks shall be 8' min. from all gas lines.
 - c. Electric: Tree trunks shall be 3—5' min. from all electrical lines.
 d. Water: Tree trunks shall be 10' min. from all water lines.
 - e. Fire hydrants: Tree trunks shall be 3-5' min. from fire hydrants.
 - f. Light poles: Tree trunks shall be 15' min. from light poles. q. Power and traffic poles: Tree trunks shall be 10' min. from poles.

LANDSCAPE GRADING

- 1. The Landscape Contractor is responsible for the fine grading of depressed basin within traffic circles. Refer to Landscape
- 2. The Engineer shall approve final grading of water harvesting basins prior to installation of inert material. Final grade to be approved prior to installing of decomposed granite or rock mulch. Rip bottom of basins 8" deep prior to requesting an inspection.
- 3. Side slopes of traffic circles shall be 16:1. Refer to Landscape Details.

PLANTING NOTES

- 1. All trees shall have a natural form with multi trunks and/or low branch standard. Provide 0.5" minimum caliper of main leaders for multiple trunk trees.
- 2. Orient sun-burn susceptible plants per original rotation.
- 3. The Landscape Architect reserves the right to refuse any plant material deemed unacceptable upon delivery to the site. Plants with rootballs with circling roots and root—bound roots will be rejected. Contact Landscape Architect prior to installation.
- 4. Contractor shall make no plant substitutions, of type or quantity, that deviate from the landscape without prior approval by the Landscape Architect.
- 5. Provide plant stock true to botanical name and legibly tagged. Trademarked plants shall bear grower's tag.
- 6. Test planting pit drainage and provide drainage chimneys as required by Specifications, taking extra precaution to ensure that drainage is adequate through caliche, if present. Notify TDOT Representative if planting pits do not drain within the required time period.
- 7. The root crown shall be 1" above finish soil grade. Remove excess surface soil from container, exposing crown & root hairs.

 Trees that settle to below the 1" above finish soil grade level will be deemed too deep.
- 8. All trees planted too deep or that have sunken 2" or more during the maintenance/warrantee period will be replaced by landscape contractor at landscape contractor's expense.
- 9. If the tree or plant pit is excavated beyond the optimal placement depth, the contractor is to replace soil under the rootball and mechanically tamp soil to 85% compaction. Replace soil in pit until the optimal plant placement depth is achieved.

ORGANIC WOODY MULCH NOTES

- 1. Organic woody mulch shall consist of 1/2" minus woodchips. The hardwood material is natural, made without color additives or chemical additives, and is composed of locally sourced material from mesquites, palo verdes, pines, and eucalyptus. The term "organic" applies to a natural material derived from living organisms. No inorganic rock material shall be incorporated into the mix.
- 2. Mulch shall be applied evenly at a 2" thickness above the ripped soil and below the plating material. Do not mix mulch into soil.
- 3. Keep mulch 4" away from trunks of trees or shrubs to prevent rot.
- 4. Mulch shall only be used in areas where stormwater has low velocity, and shall not be used in flow—through systems. Refer to Hardscape Plans for location of mulch.
- 5. If native soil is severely compacted or degraded, apply compost or mulch before mechanically tilling the top 8" to 12" of soil prior to planting.

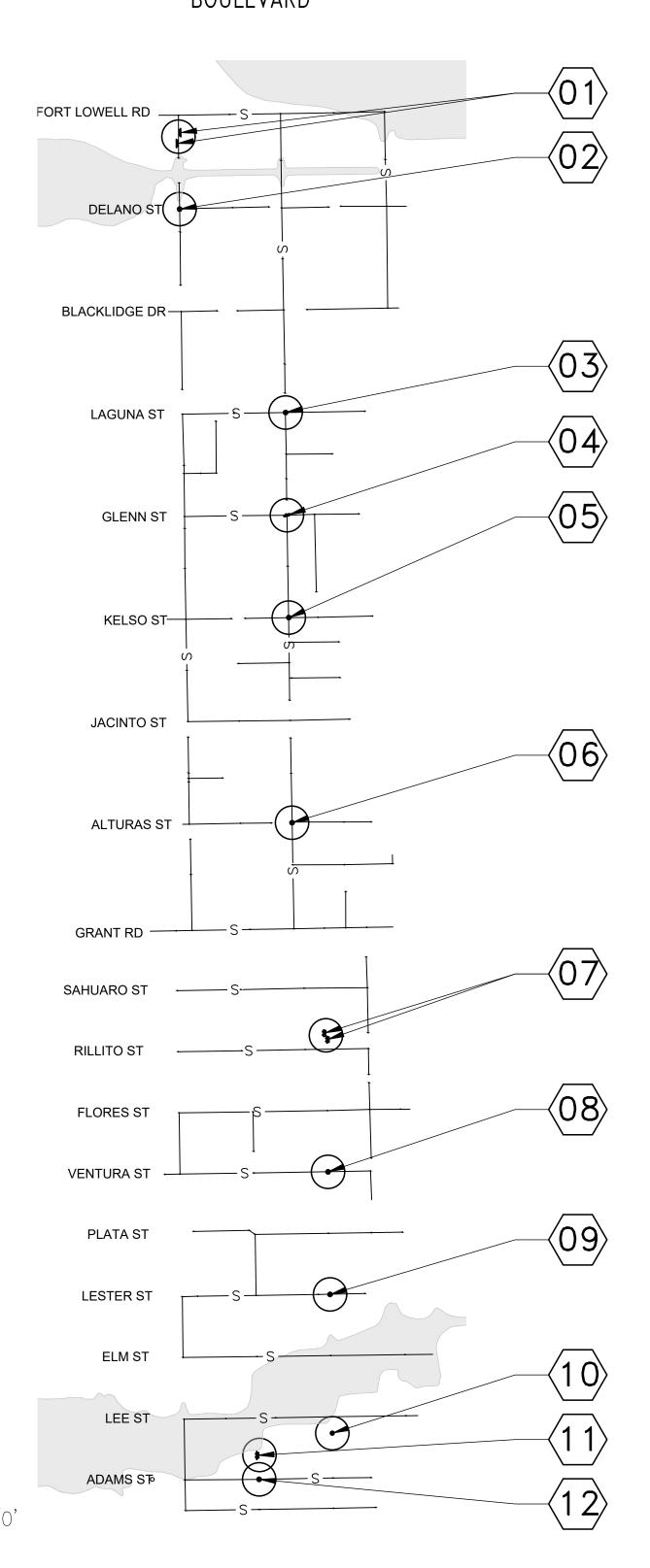
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

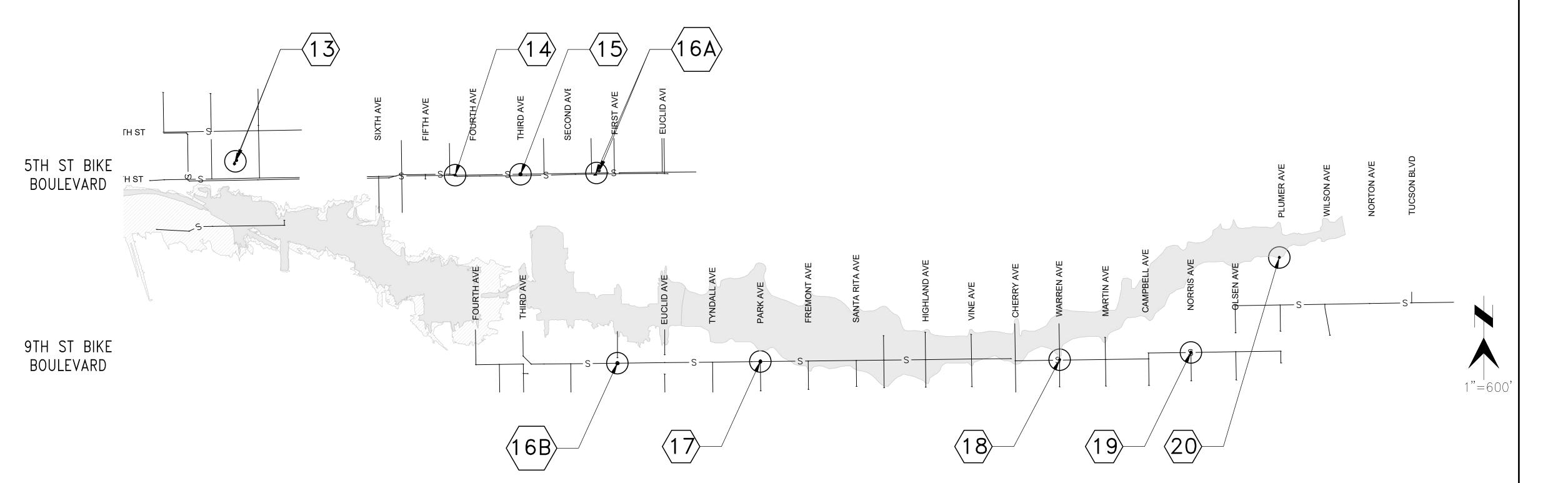
LP1-01 of LP1-02

CERTIFICATION STATEMENT REQUIRED BY PCRWRD		WH		ESIGN GROUP NDSCAPE ARCHITECTS	500 N. TUC TUCSON A T: 520 88		. SUITE 150 716	CITY OF TUCSON	9TH AVE, 5TH ST, AND SAINT MARYS RD TO FORT LOWELL RD, Lands		TH AVE		
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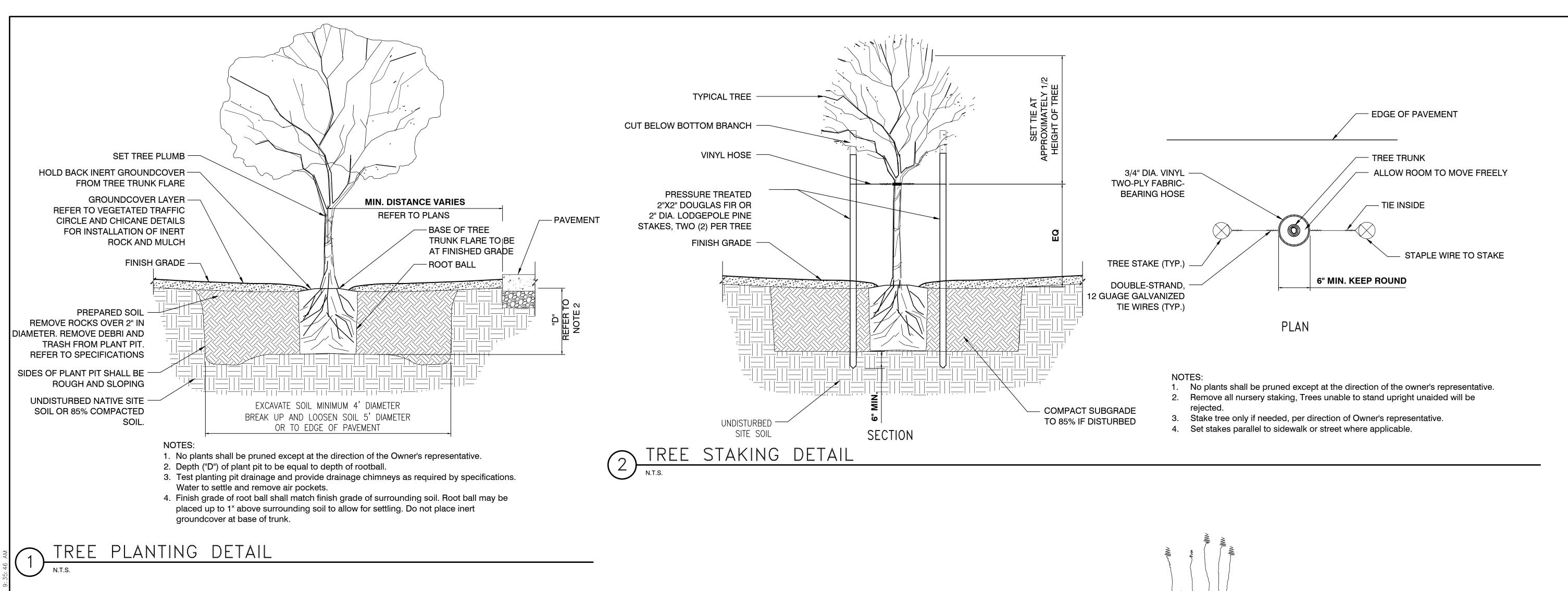


- Chicanes at Balboa Avenue between Fort Lowell Road and Delano Street, Refer to Sheet LP3-1.
- $\langle 02 \rangle$ Traffic circle at Balboa Avenue and Delano Street, Refer to Sheet LP3-1.
- $\overline{(03)}$ Traffic circle at 9th Avenue and Laguna Street, Refer to Sheet LP3-2.
- $\langle 04 \rangle$ Center islands at 9th Avenue and Glenn Street, Refer to Sheet LP3-2.
- $\langle 05 \rangle$ Traffic circle at 9th Avenue and Kelso Street, Refer to Sheet LP3-2.
- $\langle 06 \rangle$ Traffic circle at 9th Avenue and Alturas Street, Refer to Sheet LP3-2.
- Chicanes at 9th Avenue between Saguaro Street and Rillito Street, Refer to Sheet LP3-3.
- $\langle 08 \rangle$ Traffic circle at 9th Avenue and Ventura Street, Refer to Sheet LP3-3.
- $\langle \overline{09} \rangle$ Traffic circle at 9th Avenue and Lester Street, Refer to Sheet LP3-3.
- Center island at 9th Avenue between Lee Street and Adams Street, Refer to Sheet LP3-4.

- Chicane at 9th Avenue between Lee Street and Adams Street, Refer to Sheet LP3-4.
- Traffic circle at 9th Avenue between 4th Street and 5th Street, Refer to Sheet LP3-4.
- Chicanes at 9th Avenue between Olsen Avenue and Wilson Boulevard, Refer to Sheet LP3-5.
- Center island at 5th Street between 5th Avenue and 4th Avenue, Refer to Sheet LP3-5.
- (15) Traffic circle at 5th Street and 3rd Avenue, Refer to Sheet LP3-5.
- Chicanes at 5th Street between 2nd Avenue and 1st Avenue, Refer to Sheet LP3-6.
- $\langle 16B \rangle$ Traffic circle at 9th Street and First Avenue, Refer to Sheet LP3-6.
- $\langle 17 \rangle$ Center island at 9th Street and Park Avenue, Refer to Sheet LP3-6.
- $\langle 18 \rangle$ Traffic circle at 9th Street and Warren Avenue, Refer to Sheet LP3-7.
- $\langle 19 \rangle$ Traffic circle at 9th Street and Norris Avenue, Refer to Sheet LP3-7.
- $\langle 20 \rangle$ Traffic Circle at 7th Street and Plumer Avenue, Refer to Sheet LP3-7.

LP1-02 of LP1-0

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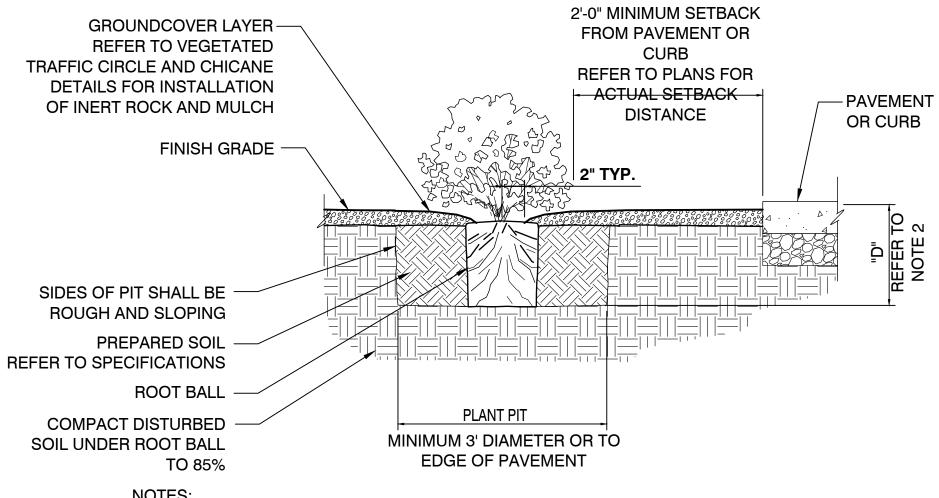


PAVEMENT OR CURB -GROUNDCOVER LAYER — REFER TO VEGETATED TRAFFIC CIRCLE 3'-0" MIN. AND CHICANE DETAILS FOR INSTALLATION REFER TO PLANS OF INERT ROCK AND MULCH FINISHED GRADE SIDES OF PLANT PIT SHALL . BE ROUGH AND SLOPING CLEAN NATIVE SOIL OR CLEAN SAND BACKFILL, AS SPECIFIED. DO NOT INCLUDE MULCH. UNDISTURBED SUBGRADE WATER SETTLE AND TAMP SOIL. COMPACT DISTURBED SOIL REFER TO SPECIFICATIONS. UNDER ROOT BALL TO 85% MINIMUM 2X DIAMETER 1. This detail applies to nursery grown stock of the Genera agave, aloe,

dasylirion, hesperaloe, nolina and yucca.

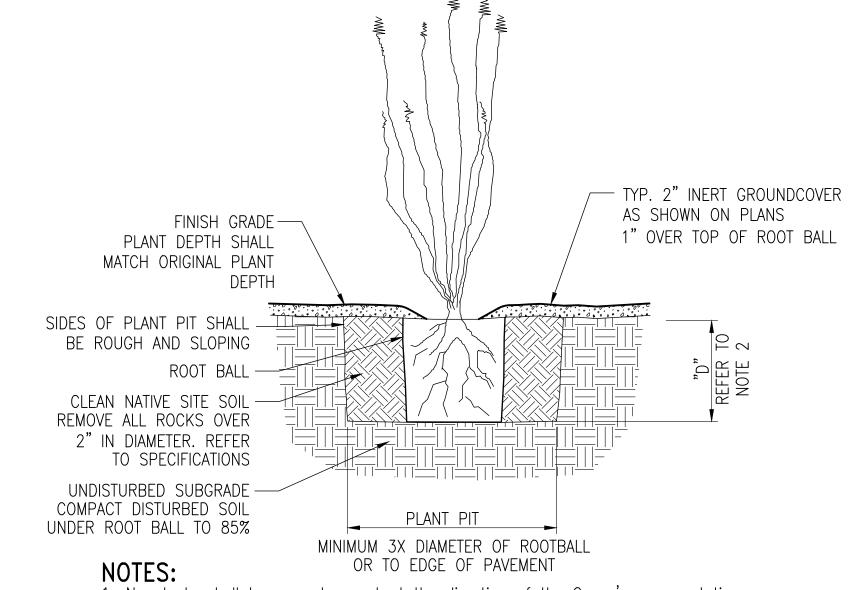
- Do not create a basin at base of plant. Slope backfill away from stem.
- Set stem succulent so that top of root ball matches adjacent grade. 4. Depth ("D") of plant pit to be equal to depth of rootball.

AGAVE AND SUCCULENT PLANTING



- 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



1. No plants shall be pruned except at the direction of the Owner's representative.

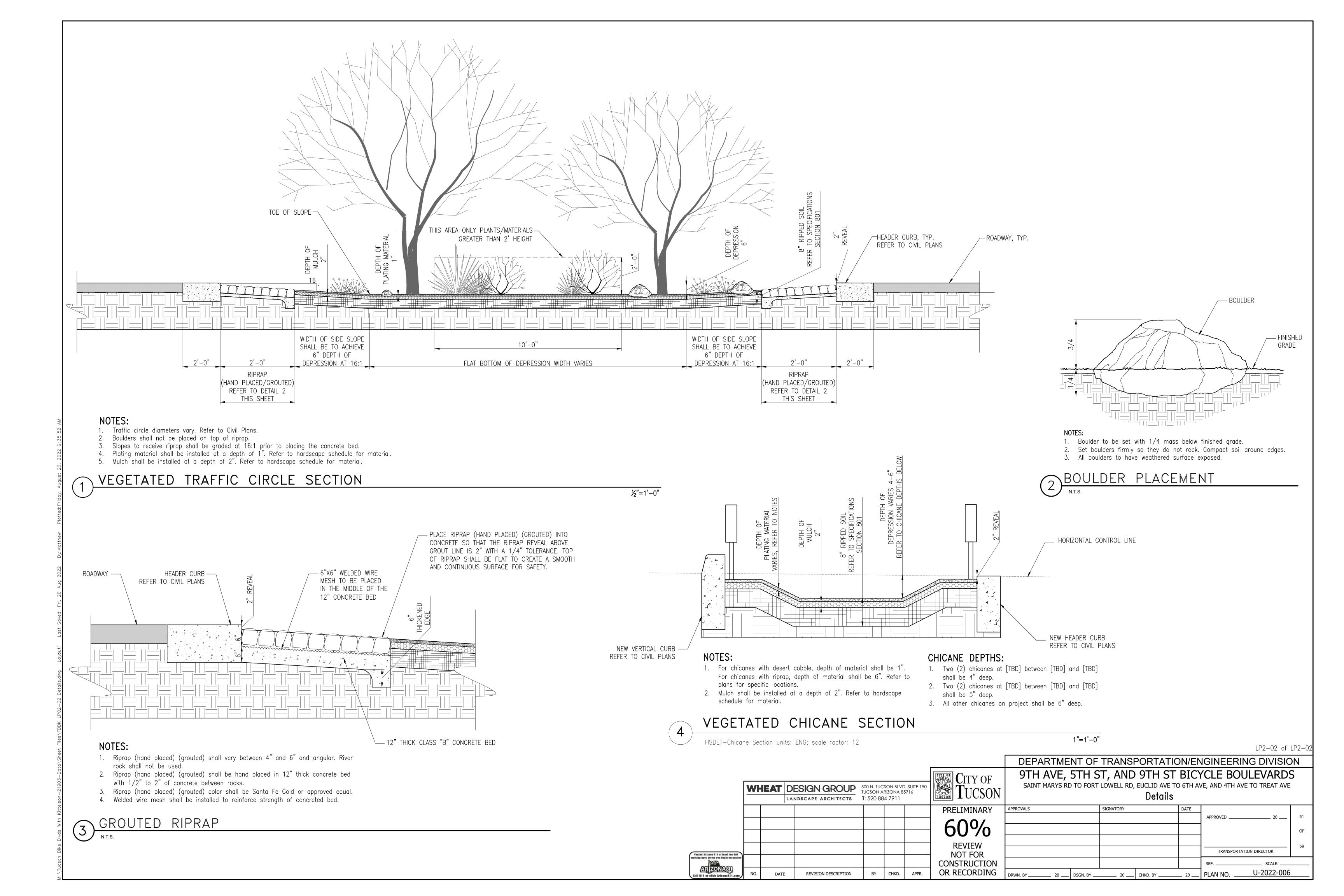
- 2. Depth ("D") of plant pit to be equal to depth of rootball.
- 3. Test planting pit drainage and provide drainage chimneys as required by
- 4. Finish grade of root ball shall match finish grade of surrounding soil. Root ball may be placed up to 1" above surrounding soil to allow for settling. Do not

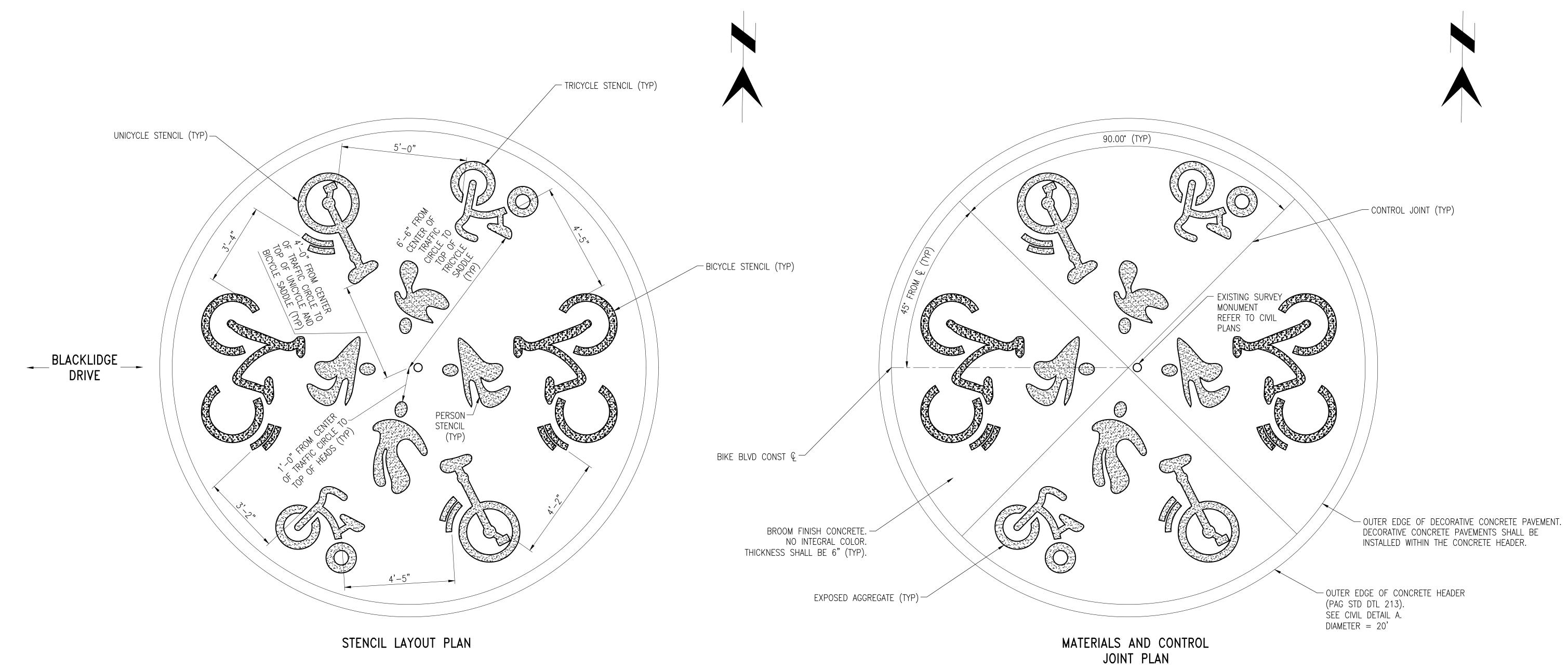
place mulch at base of plant.

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

LP2-01 of LP2-02

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NOTES:

- 1. Item 931006, Decorative Concrete Pavement, includes all concrete within the traffic circle, including broomed finish and exposed
- aggregate finish stencils. Refer to Special Provisions.

 2. Exposed aggregate concrete figures shall be located from center of traffic circle. Refer to detail.

 3. Bicycle stencil shall be aligned perpendicular to street centerlines.

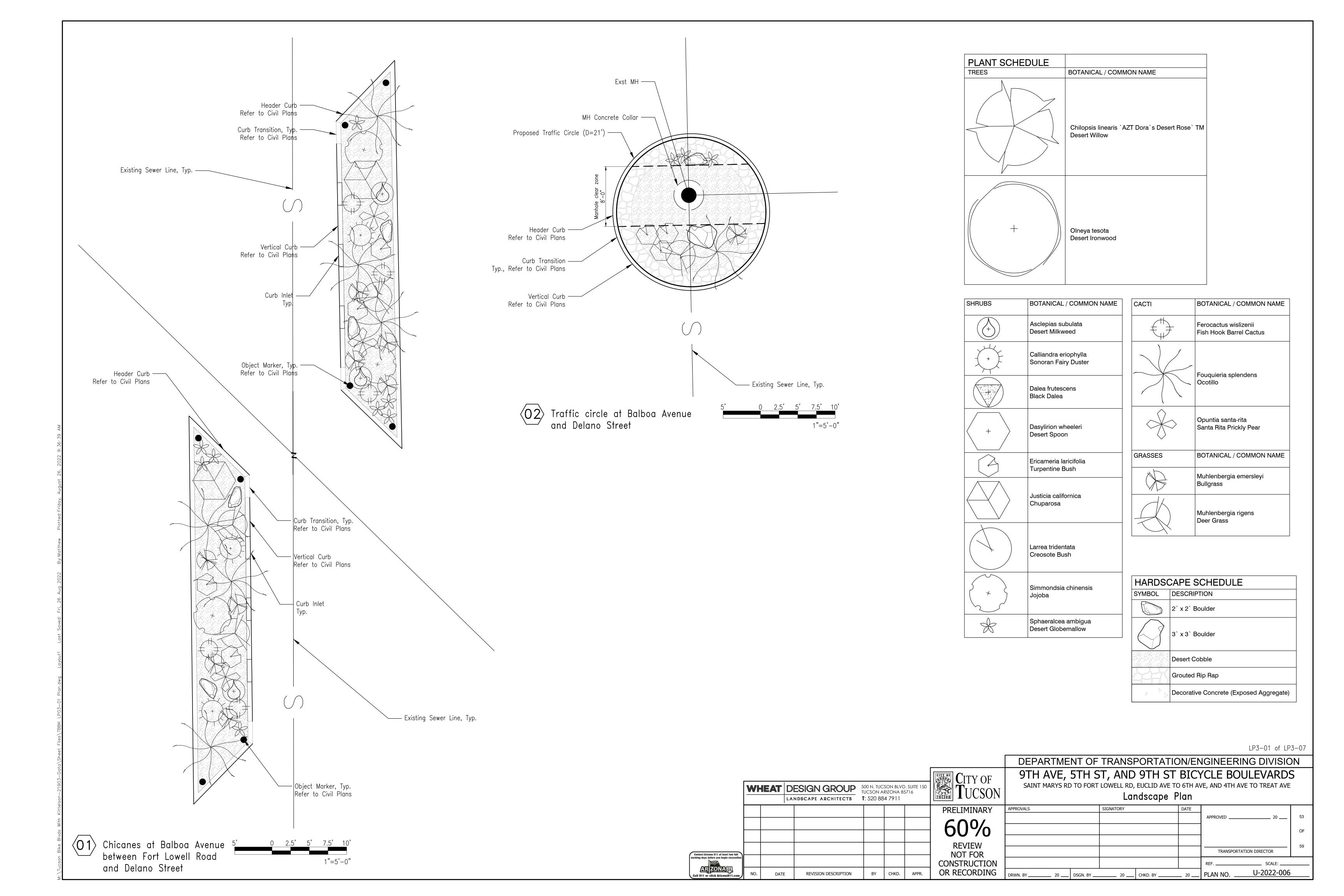
 4. Fabrication of stencils to be generated from full scale electronic CAD data.

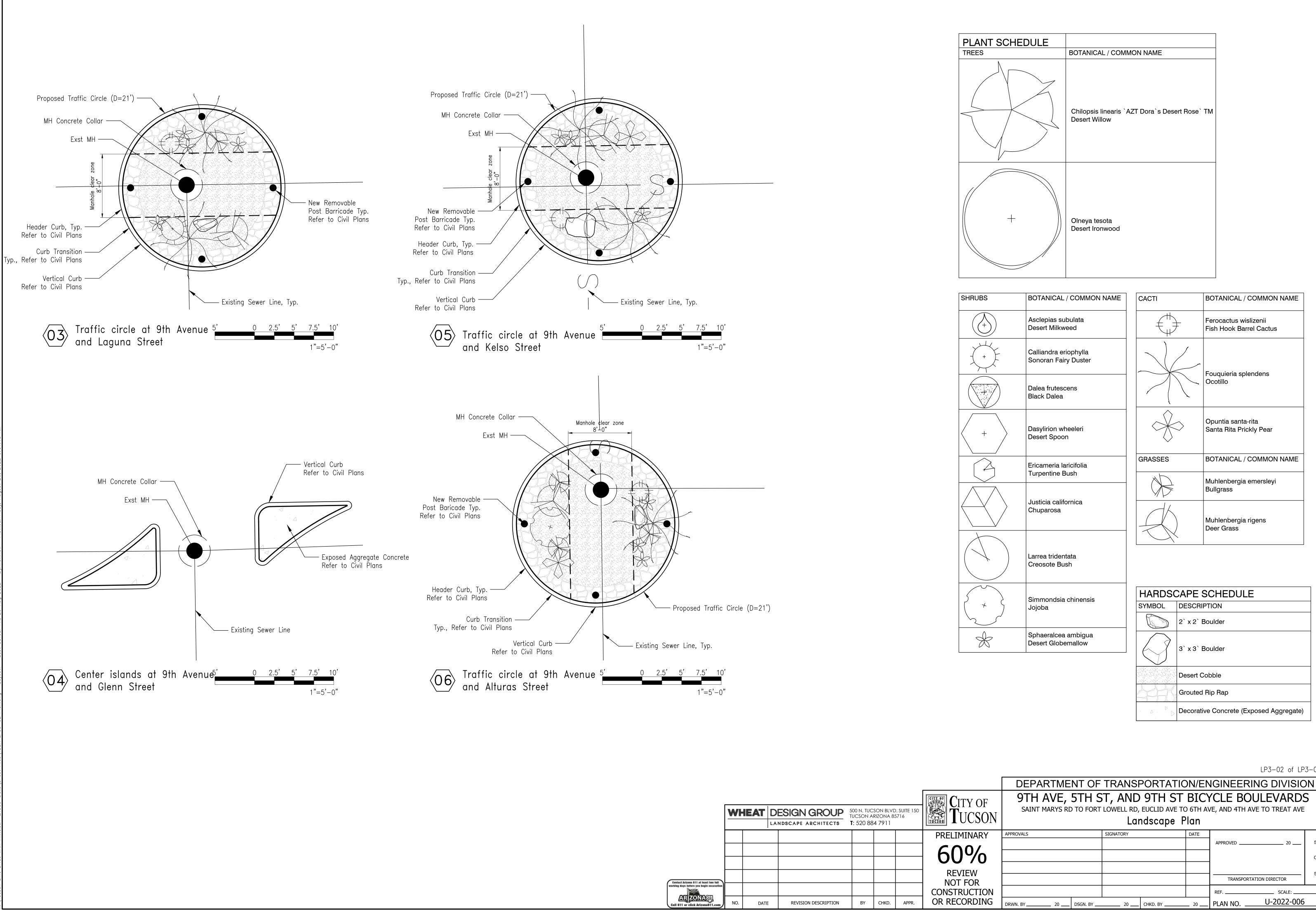
PAVED TRAFFIC CIRCLE -9TH ST AND WARREN AVENUE 7TH ST AND PLUMER AVENUE

½"=1'−0"

LP2-03 of LP2-03

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Contact Arizona 811 at least two full working days before you begin excavation						NOT FOR CONSTRUCTION				REF SCALE:	
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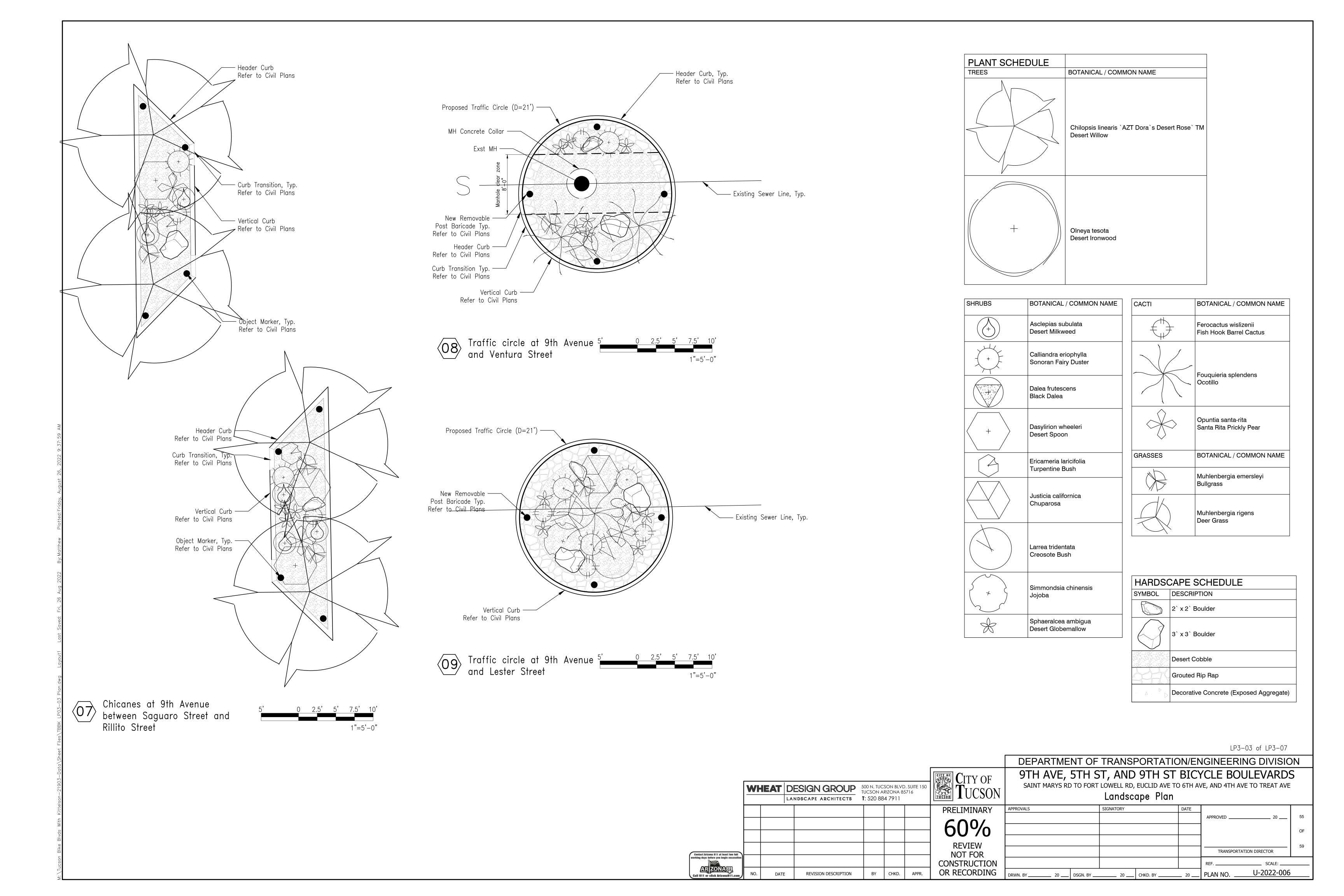
BOTANICAL / COMMON NAME Chilopsis linearis `AZT Dora`s Desert Rose` TM **Desert Willow** Olneya tesota Desert Ironwood

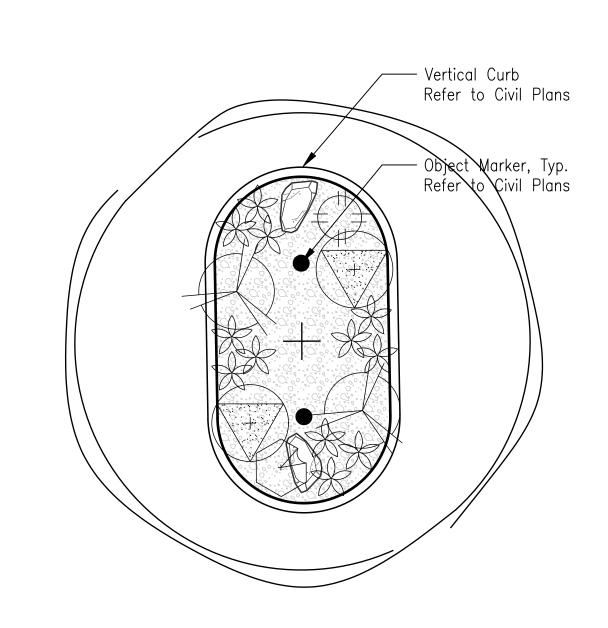
SHRUBS	BOTANICAL / COMMON NAME	CACTI	В	SOTANICAL / COMMON NAME
+	Asclepias subulata Desert Milkweed		_	erocactus wislizenii ish Hook Barrel Cactus
+	Calliandra eriophylla Sonoran Fairy Duster			
	Dalea frutescens Black Dalea			ouquieria splendens Ocotillo
+	Dasylirion wheeleri Desert Spoon			Opuntia santa-rita Santa Rita Prickly Pear
	Ericameria laricifolia	GRASSES	В	SOTANICAL / COMMON NAME
	Turpentine Bush			Muhlenbergia emersleyi Bullgrass
	Justicia californica Chuparosa		N	Muhlenbergia rigens
	Larrea tridentata Creosote Bush			
	Simmondsia chinensis	HARDSO	APE S	CHEDULE
(*)	Jojoba	SYMBOL	DESCRIPT	TION
			2` x 2` Bo	oulder
	Sphaeralcea ambigua Desert Globemallow		3` x 3` Bo	oulder
			Desert Col	bble
			Grouted R	ip Rap

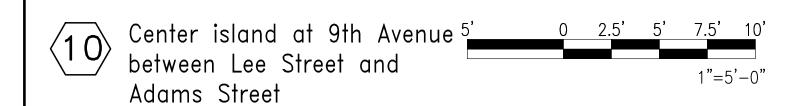
LP3-02 of LP3-07

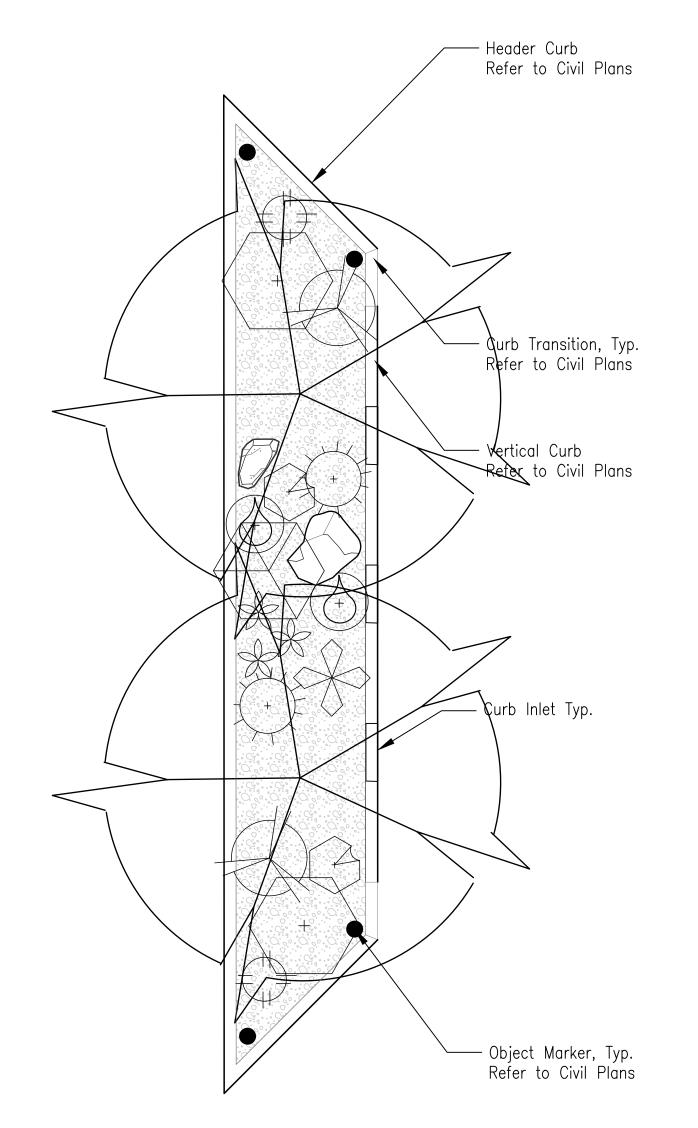
Decorative Concrete (Exposed Aggregate)

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 SIGN GROUP DSCAPE ARCHITECTS	500 N. TUC TUCSON A T: 520 88	RIZONA 8). SUITE 150 5716	CITY OF TUCSON	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									
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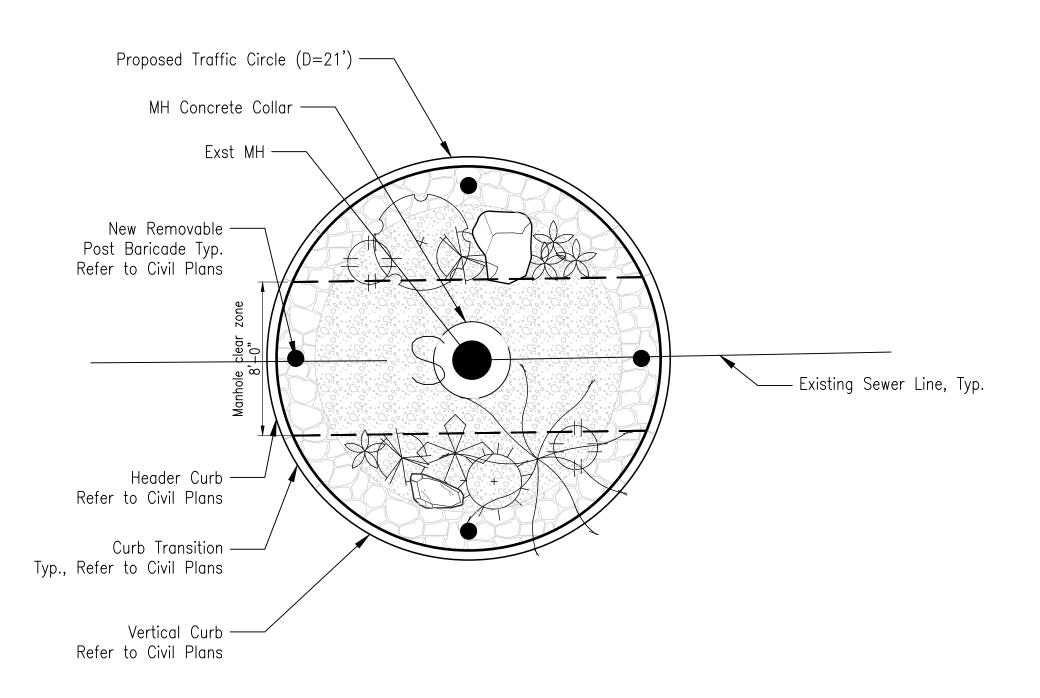




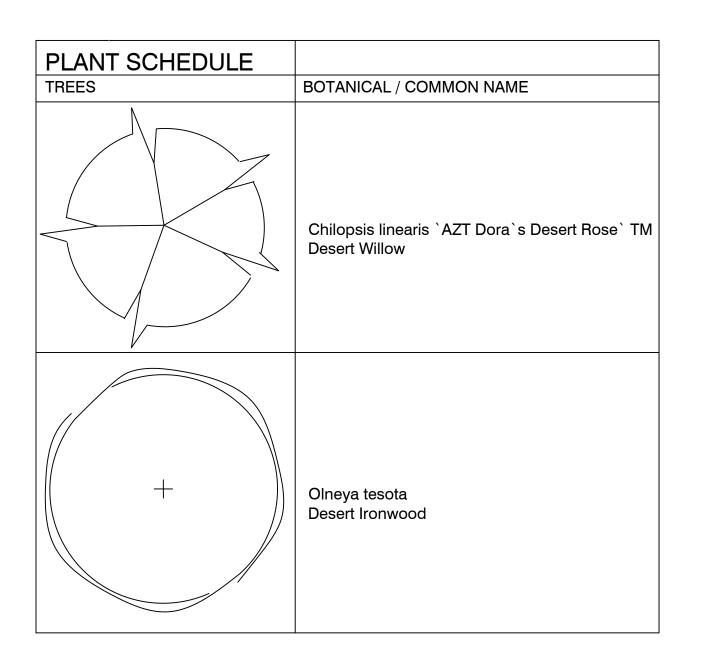




Chicane at 9th Avenue between Lee Street and Adams Street



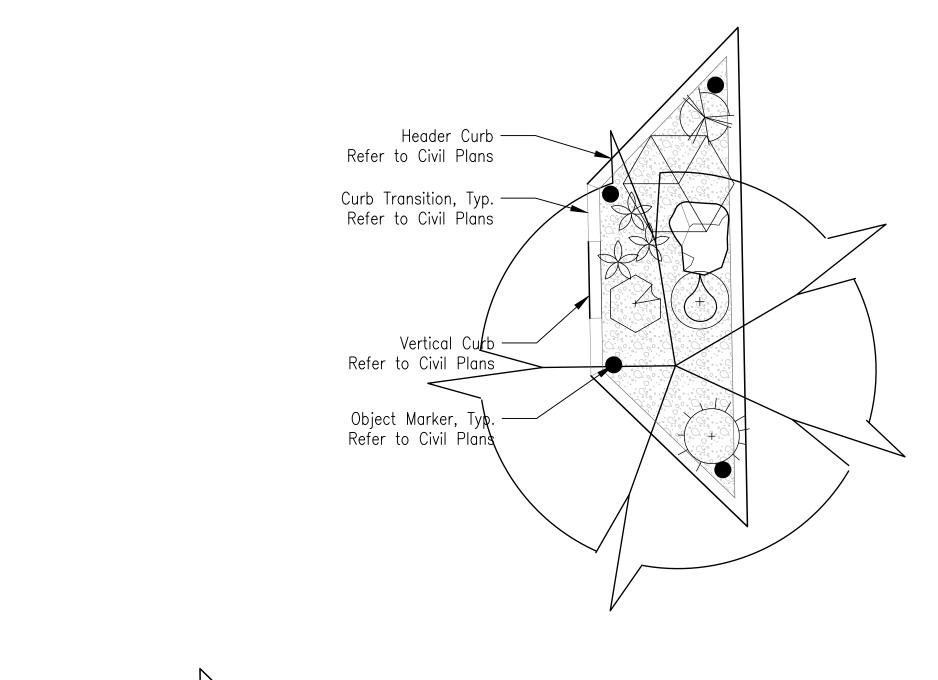
Traffic circle at 9th Avenue 5' 0 2.5' 5' 7.5' 10' between 4th Street and 5th Street

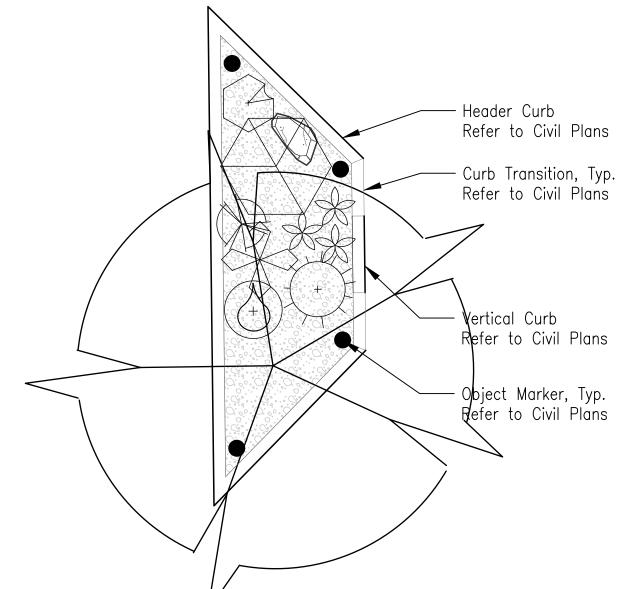


SHRUBS	BOTANICAL / COMMON NAME	CACTI	BOTANICAL / COMMON NAME
+	Asclepias subulata Desert Milkweed		Ferocactus wislizenii Fish Hook Barrel Cactus
+	Calliandra eriophylla Sonoran Fairy Duster		Fouquieria splendens
	Dalea frutescens Black Dalea		Ocotillo
+	Dasylirion wheeleri Desert Spoon		Opuntia santa-rita Santa Rita Prickly Pear
	Ericameria laricifolia Turpentine Bush	GRASSES	BOTANICAL / COMMON NAME
	Justicia californica Chuparosa		Muhlenbergia emersleyi Bullgrass Muhlenbergia rigens Deer Grass
	Larrea tridentata Creosote Bush		
	Simmondsia chinensis	HARDSC	APE SCHEDULE
*	Jojoba		DESCRIPTION 2` x 2` Boulder
	Sphaeralcea ambigua Desert Globemallow		3` x 3` Boulder
			Desert Cobble
			Grouted Rip Rap
			Decorative Concrete (Exposed Aggregate)

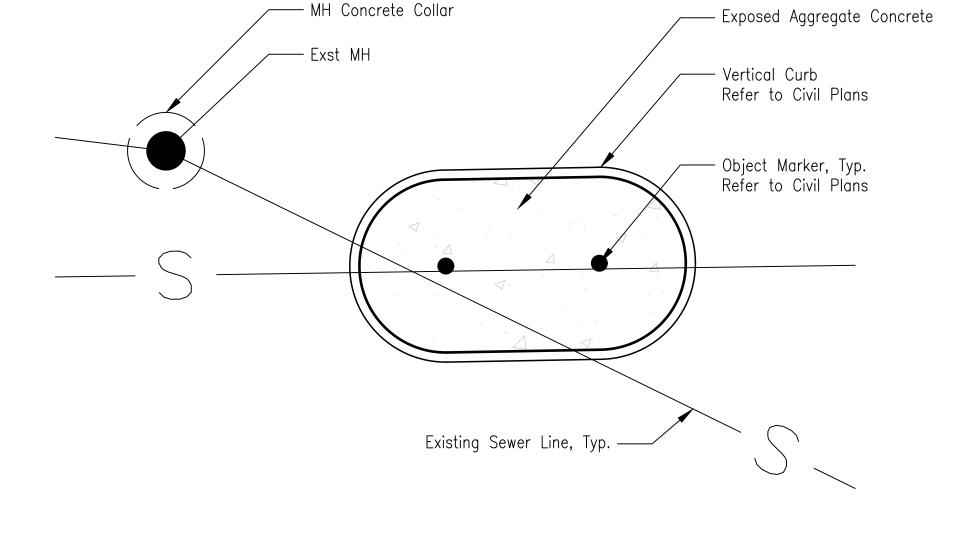
LP3-04 of LP3-07

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	WHEAT	_	ESIGN GROUP NDSCAPE ARCHITECTS	500 N. TUC TUCSON A T : 520 88	RIZONA 8	D. SUITE 150 5716	CITY OF TUCSON			LOWELL RD,		O 6TH A	YCLE BOULEVARD VE, AND 4TH AVE TO TREAT AVI	
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Contact Arizona 811 at least two full							REVIEW NOT FOR						TRANSPORTATION DIRECTOR	59
working days before you begin excavation							CONSTRUCTION						REF SCALE:	
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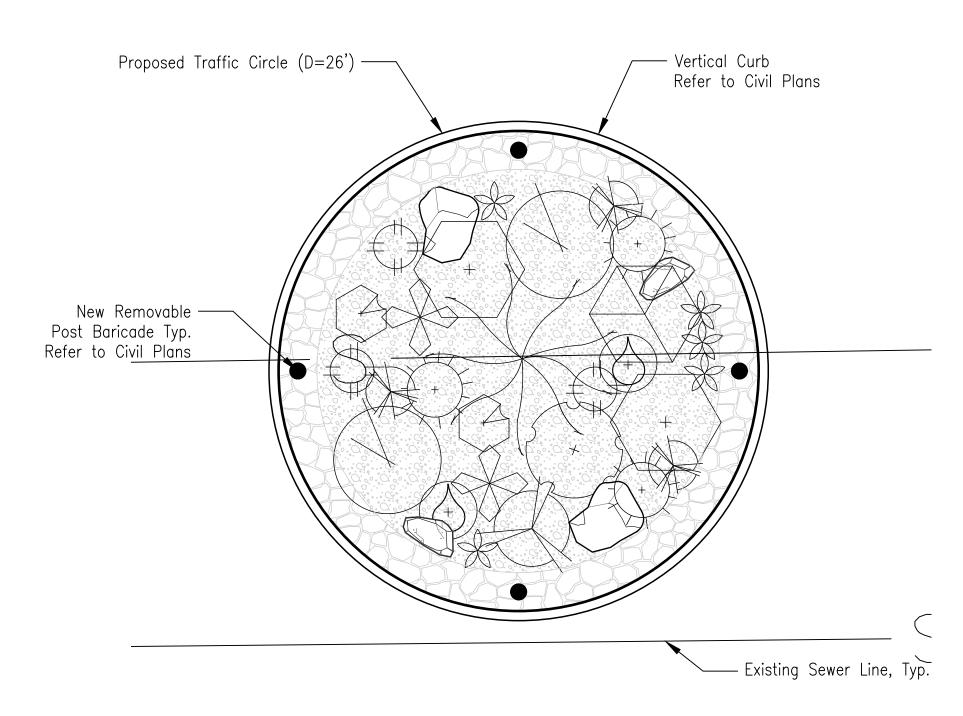




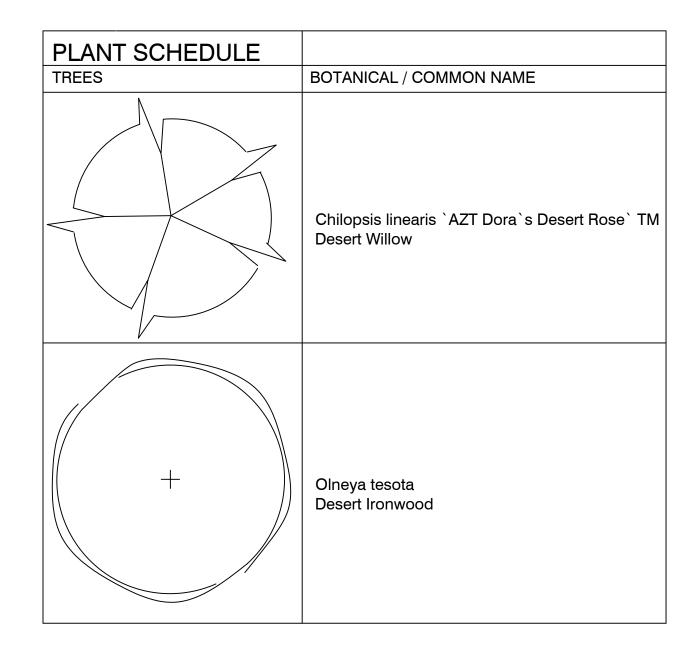
Chicanes at 9th Avenue between Olsen Avenue and Wilson Boulevard

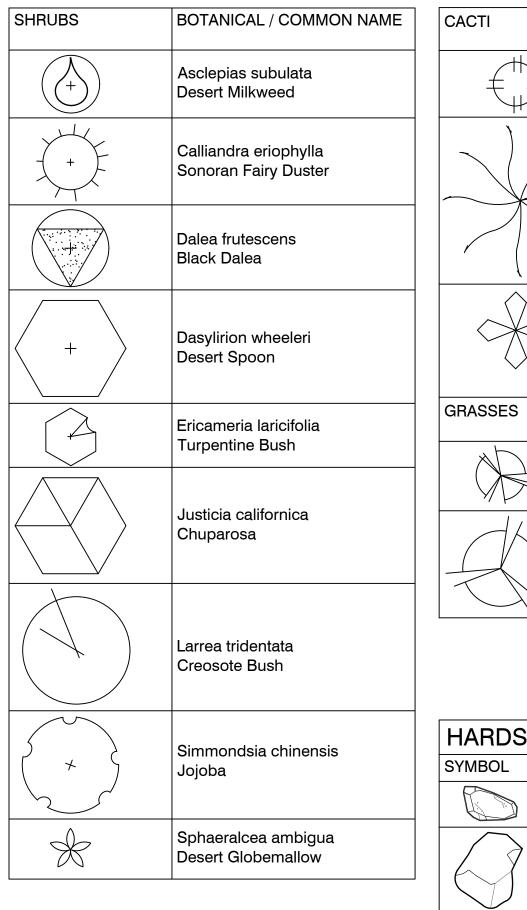


Center island at 5th Street between 5th Avenue and 4th Avenue



Traffic circle at 5th Street 5' 0 2.5' 5' 7.5' 10' and 3rd Avenue





	- ag. a.c.								
	Muhlenbergia rigens Deer Grass								
HARDSO	HARDSCAPE SCHEDULE								
SYMBOL	DESCRIPTION								
	2` x 2` Boulder								
	3` x 3` Boulder								
	Desert Cobble								
	Grouted Rip Rap								
· Δ · D	Decorative Concrete (Exposed Aggregate)								

BOTANICAL / COMMON NAME

Ferocactus wislizenii

Fouquieria splendens

Opuntia santa-rita Santa Rita Prickly Pear

BOTANICAL / COMMON NAME

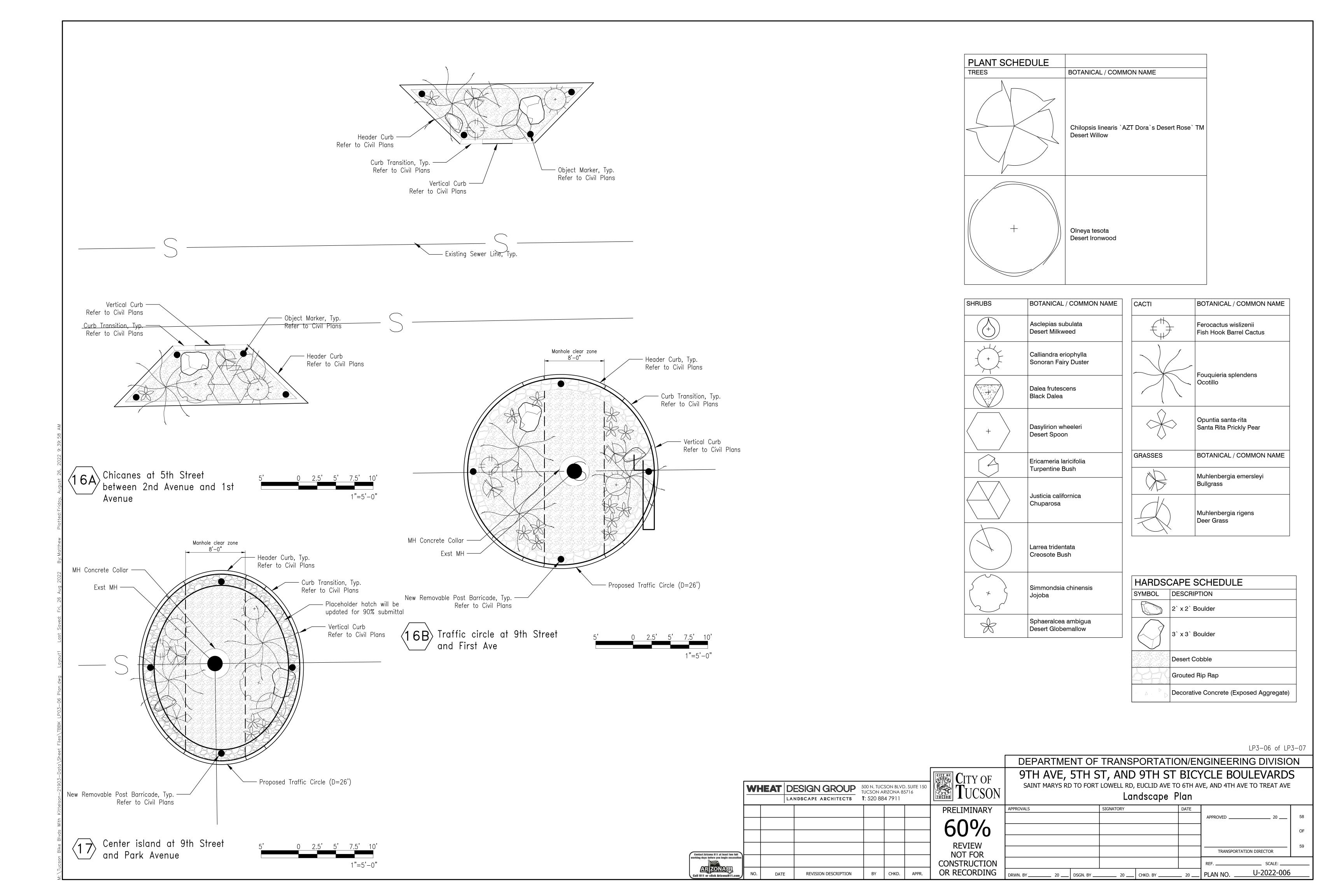
Muhlenbergia emersleyi

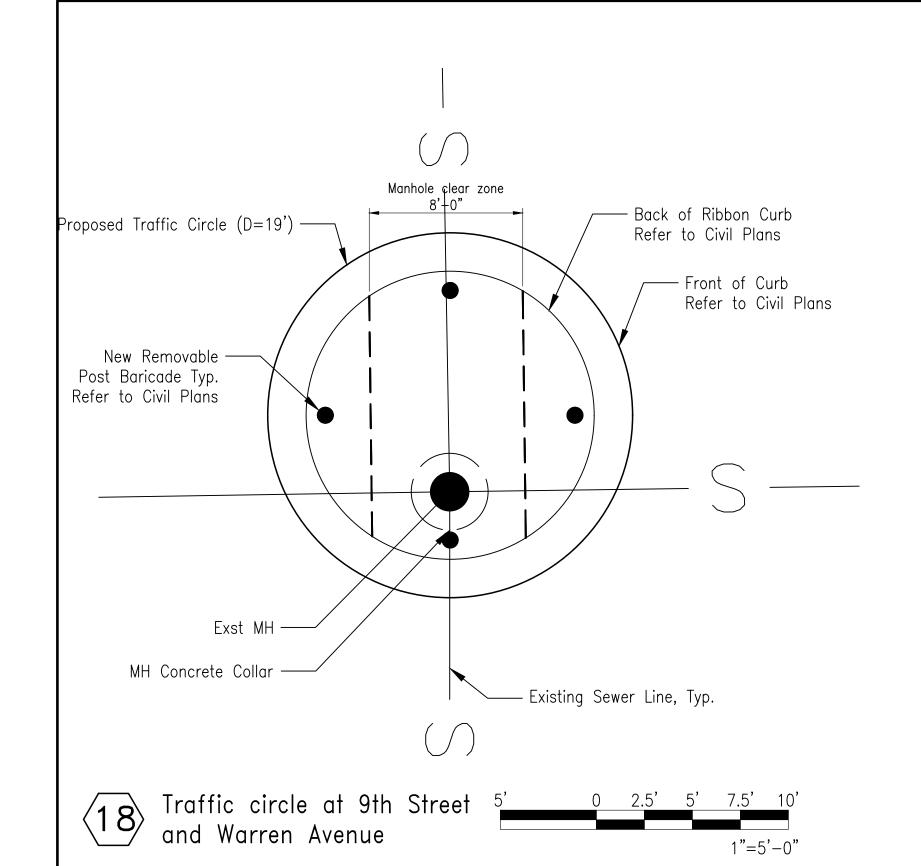
Ocotillo

Fish Hook Barrel Cactus

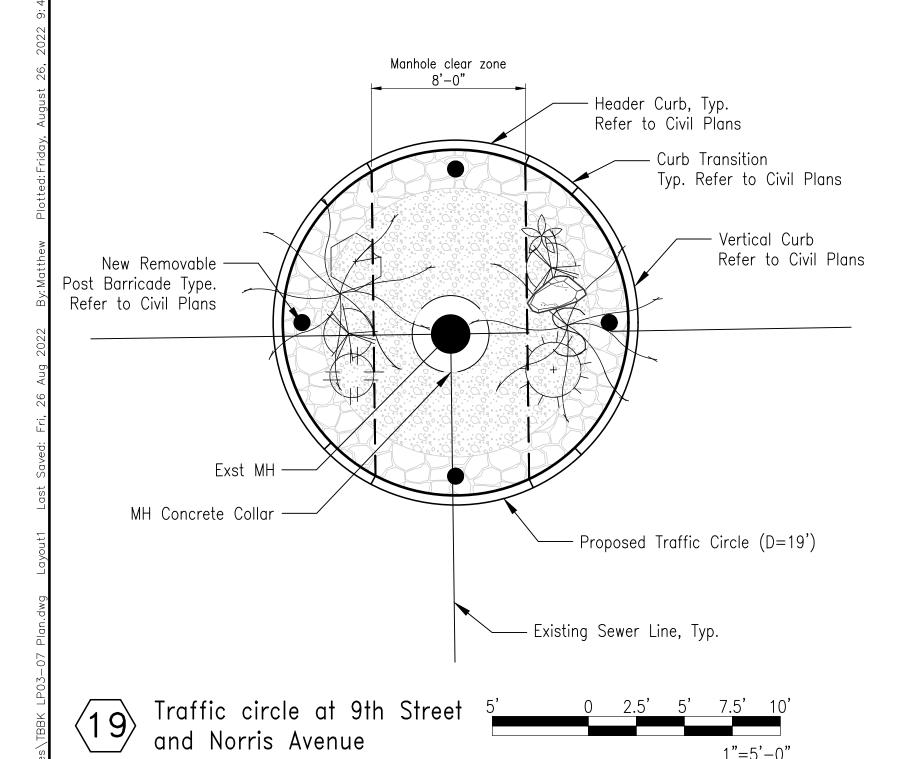
LP3-05 of LP3-07

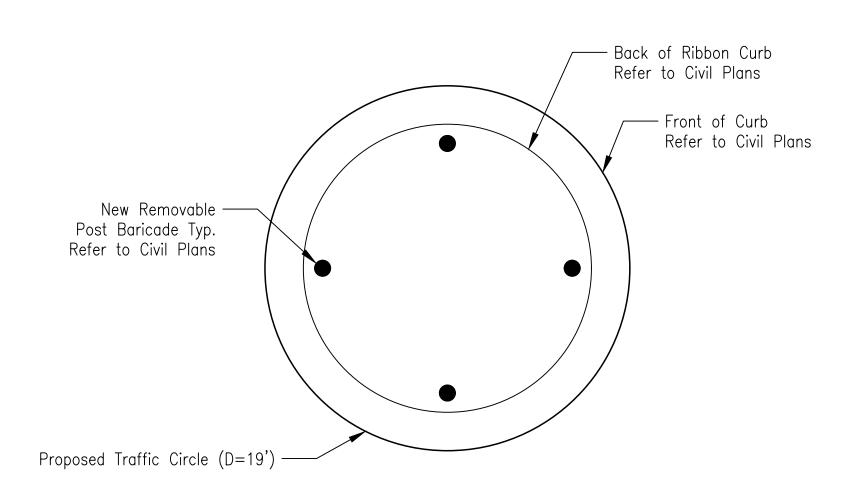
							DEPARTMENT OF	DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION					
	WHEAT	DESIGN GROUP LANDSCAPE ARCHITECTS	500 N. TUC TUCSON A T: 520 88	ARIZONA 8	D. SUITE 150 5716	CITY OF TUCSON	9TH AVE, 5TH ST, AND 9TH ST BICYCLE BOULEVARDS SAINT MARYS RD TO FORT LOWELL RD, EUCLID AVE TO 6TH AVE, AND 4TH AVE TO TREAT AVE Landscape Plan						
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working days before you begin excavation						CONSTRUCTION				REF SCALE:			
Call 811 or click Arizona811.com	NO. DAT	REVISION DESCRIPTION	BY	CHKD.	APPR.	OR RECORDING	DRWN. BY 20 DSGN. BY	20 CHKD. BY	20	PLAN NOU-2022-006	·		





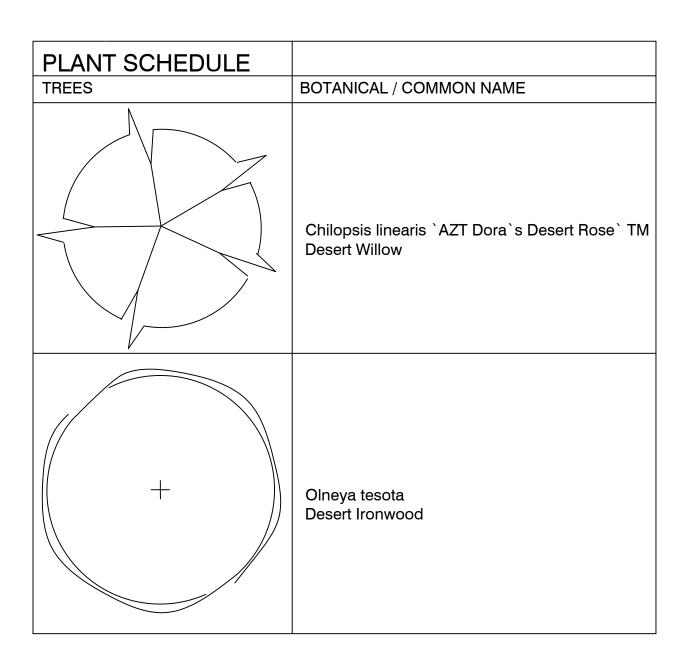
Traffic circle to be paved.
Refer to Paved Hardscape
Traffic Circle Detail, Sheet
PL02-03.

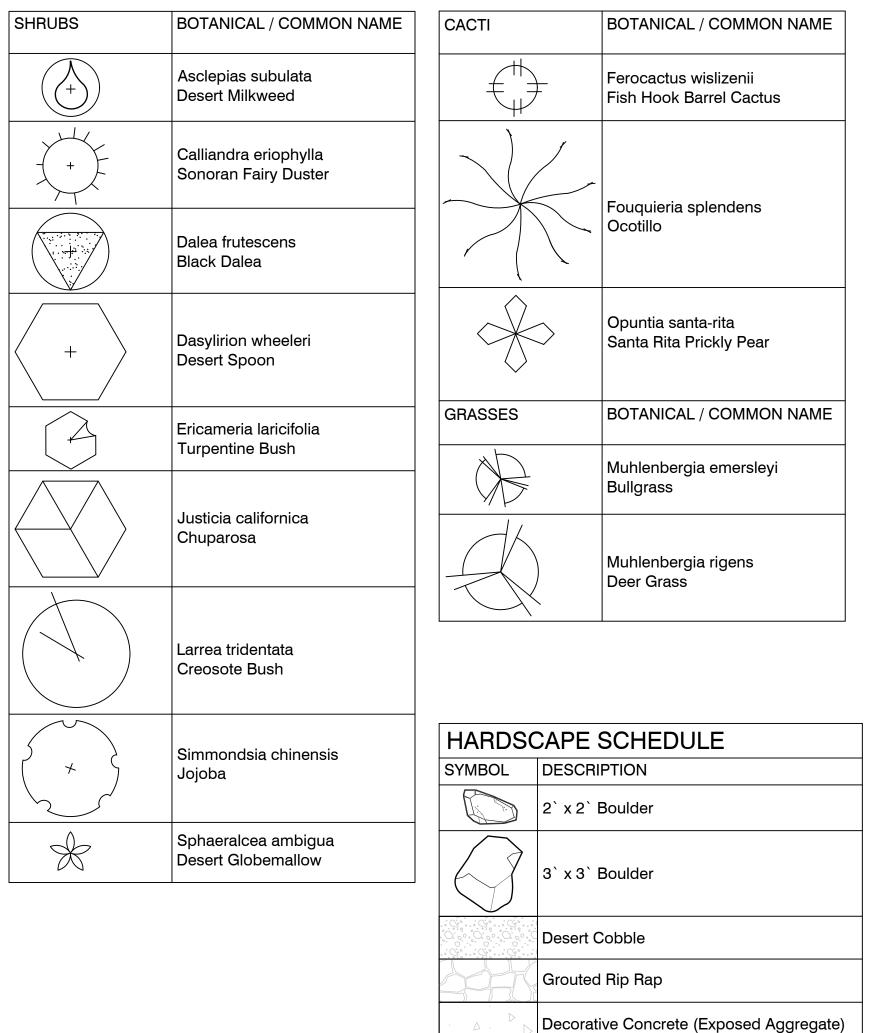




Traffic Circle at 7th Street on 2.5' 5' 7.5' 1 and Plumer Avenue

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





LP3-07 of LP3-07

								DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVIS						
	TUCSON,				500 n. tucson blvd. suite 150 fucson arizona 85716 T : 520 884 7911		CITY OF TUCSON	· · · · · · · · · · · · · · · · · · ·	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	APPROVALS		SIGNATORY	DATE		50	
							60%					APPROVED 20	_ 59	
													OF	
							REVIEW					TRANSPORTATION DIRECTOR	- 59	
Contact Arizona 811 at least two fu working days before you begin excava							NOT FOR CONSTRUCTION					REF SCALE:		
Call 811 or click Arizona811.co	NO.	DATE	REVISION DESCRIPTION	BY	CHKD.	APPR.	OR RECORDING	DRWN. BY 20	DSGN. BY	20 CHKD. BY	/ 20	PLAN NOU-2022-000	6	