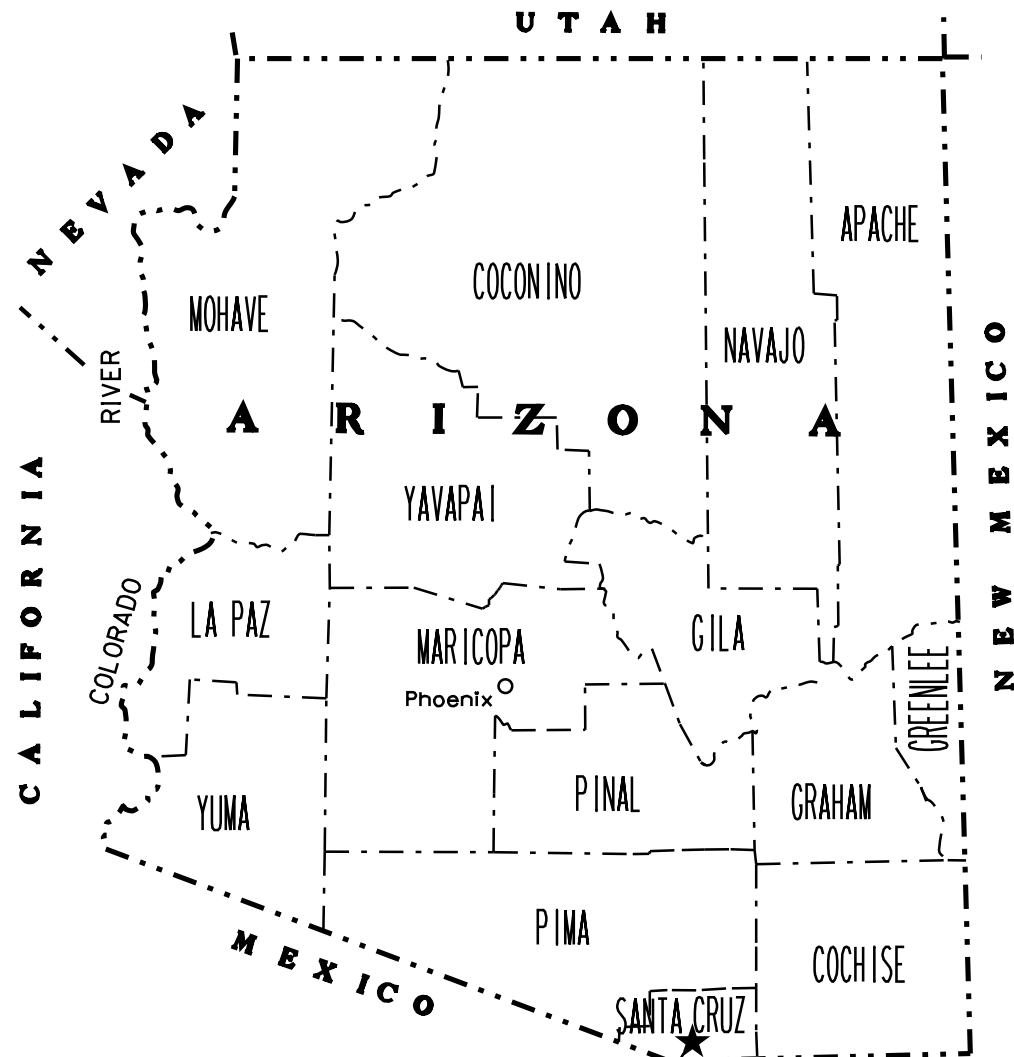


STATE OF ARIZONA
 DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION

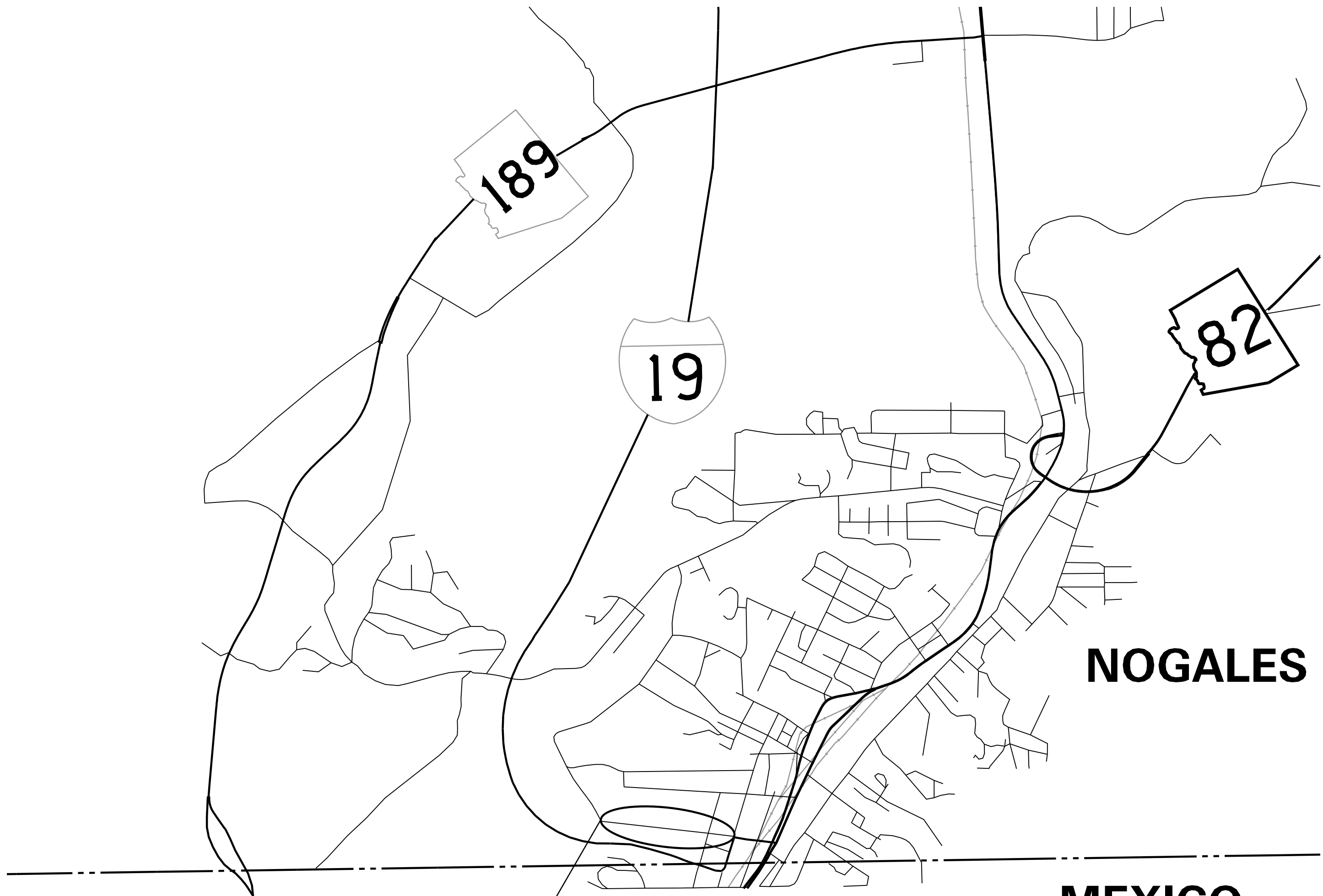


PROJECT PLANS

SANTA CRUZ COUNTY
 CITY OF NOGALES



Project Location



PAVEMENT RECONSTRUCTION
 AND PEDESTRIAN IMPROVEMENTS

NOGALES

MEXICO

Constructed by:

Construction Company _____

Completion Date _____

Red-Lines by:

Construction Administrator Name & Company _____

Completion Date _____

Record Drawings by:

Record Drawings Designer Name & Company _____

Completion Date _____

CRAWFORD STREET
 MCNAB DRIVE TO SONOITA AVENUE
 PROJECT NO. 0000 SC NOG SZ035 01C
 FEDERAL AID NO. STP-NOG-0(201)T

ARIZONA DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
 DALLAS HAMMIT, P.E., STATE ENGINEER

REC. DWGS DATA	REC. DWGS DATE	<u>1</u>
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ADOT STANDARD DRAWINGS
C STANDARDS

ISSUE OR REVISION DATE	STANDARD NO.	SUBJECT CONSTRUCTION
5/12	C-01.10 SH 1	SYMBOL LEGEND
5/12	C-01.10 SH 2	SYMBOL LEGEND
5/12	C-01.10 SH 3	SYMBOL LEGEND
5/12	C-01.10 SH 4	SYMBOL LEGEND
5/12	C-01.30 SH 1	GENERAL ABBREVIATIONS
5/12	C-01.30 SH 2	GENERAL ABBREVIATIONS
5/12	C-01.30 SH 3	GENERAL ABBREVIATIONS
5/12	C-02.10	SLOPES, RURAL DIVIDED HIGHWAYS
5/12	C-02.20	SLOPES, RURAL UNDIVIDED AND FRINGE-URBAN HIGHWAYS
5/12	C-02.30	SLOPES, MISCELLANEOUS ROADWAYS
5/12	C-03.10 SH 1	DITCHES, CHANNELS, DIKES AND BERMS, DITCHES AND CHANNELS
5/12	C-03.10 SH 2	DITCHES, CHANNELS, DIKES AND BERMS, DIKES
5/12	C-03.10 SH 3	DITCHES, CHANNELS, DIKES AND BERMS, DITCH DIKE
5/12	C-03.10 SH 4	DITCHES, CHANNELS, DIKES AND BERMS, PIPE BERMS
5/12	C-03.10 SH 5	DITCHES, CHANNELS, DIKES AND BERMS, HEADWALL BERMS
5/12	C-04.10 SH 1	SPILLWAY, EMBANKMENT SINGLE INLET
5/12	C-04.10 SH 2	SPILLWAY, EMBANKMENT DOUBLE INLET
5/12	C-04.20 SH 1	DOWNDRAIN, EMBANKMENT SINGLE INLET
5/12	C-04.20 SH 2	DOWNDRAIN, EMBANKMENT DOUBLE INLET
5/12	C-04.30	SPILLWAY LENGTH TABLE
5/12	C-04.40	DOWNDRAIN LENGTH TABLE
5/12	C-04.50	DOWNDRAIN ENERGY DISSIPATOR
5/12	C-05.10	CURB & GUTTER, CURB, GUTTER
5/12	C-05.12 SH 1	CURB & GUTTER TRANSITIONS
5/12	C-05.12 SH 2	CURB & GUTTER TRANSITIONS
5/12	C-05.12 SH 3	CURB AND GUTTER TRANSITIONS
5/12	C-05.20 SH 1	CONCRETE DRIVEWAYS & SIDEWALKS, DRIVEWAYS
5/12	C-05.20 SH 2	CONCRETE DRIVEWAYS & SIDEWALKS, SIDEWALKS
5/12	C-05.30 SH 1	SIDEWALK RAMP, TYPE A
5/12	C-05.30 SH 2	SIDEWALK RAMP, TYPE B
5/12	C-05.30 SH 3	SIDEWALK RAMP, TYPE C
5/12	C-05.30 SH 4	SIDEWALK RAMP, TYPE D
5/12	C-05.30 SH 5	SIDEWALK RAMP, TYPE E
5/12	C-05.30 SH 6	SIDEWALK RAMP, TYPE F
5/12	C-05.30 SH 7	SIDEWALK RAMP, DETECTABLE WARNING STRIP
5/12	C-05.40	MEDIAN PAVING AND NOSE TAPER
5/12	C-05.50	CONCRETE BUS BAY
5/12	C-06.10 SH 1	DRIVEWAY & TURNOUT LAYOUTS
5/12	C-06.10 SH 2	DRIVEWAY & TURNOUT LAYOUTS
5/12	C-07.01 SH 1	PCCP JOINTS
5/12	C-07.01 SH 2	PCCP JOINTS
5/12	C-07.02	LOAD TRANSFER DOWEL ASSEMBLY
5/12	C-07.03 SH 1	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 2	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 3	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 4	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 5	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 6	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 7	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 8	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.04 SH 1	PCCP JOINT LOCATIONS, PARALLEL TYPE ENTRANCE RAMP WITH AUXILIARY LANE
5/12	C-07.04 SH 2	PCCP JOINT LOCATIONS, PARALLEL TYPE EXIT RAMP WITH AUXILIARY LANE
5/12	C-07.04 SH 3	PCCP JOINT LOCATIONS, TAPER TYPE ENTRANCE RAMP
5/12	C-07.04 SH 4	PCCP JOINT LOCATIONS, TAPER TYPE EXIT RAMP
5/12	C-07.04 SH 5	PCCP JOINT LOCATIONS, CROSSROAD AND RAMP TERMINI
5/12	C-07.06	TRENCH BACKFILL AND PAVEMENT REPLACEMENT
5/12	C-08.20	PAVED GORE AREA
5/12	C-10.00	GUARDRAIL MEASUREMENT LIMITS
5/12	C-10.01	GUARDRAIL INSTALLATION, TYPE A AND REFLECTOR TAB
5/12	C-10.02	GUARDRAIL INSTALLATION, TYPE B AND REFLECTOR TAB
5/12	C-10.03	W-BEAM GUARDRAIL, G4(1W) AND G4(2W), BLOCKED-OUT TIMBER POST
5/12	C-10.04	W-BEAM GUARDRAIL, G4(1S), BLOCKED-OUT STEEL POST
5/12	C-10.05 SH 1	W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER
5/12	C-10.05 SH 2	W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER
5/12	C-10.06 SH 1	W-BEAM GUARDRAIL, NESTED, TYPES 1 AND 2
5/12	C-10.06 SH 2	W-BEAM GUARDRAIL, NESTED, TYPE 3
5/12	C-10.07 SH 1	W-BEAM GUARDRAIL, BOLTED ANCHOR
5/12	C-10.07 SH 2	W-BEAM GUARDRAIL, BOLTED ANCHOR
5/12	C-10.08	W-BEAM GUARDRAIL, END ANCHOR
5/12	C-10.20	THREE-BEAM GUARDRAIL, G9, BLOCKED-OUT STEEL POST
5/12	C-10.30 SH 1	GUARDRAIL TRANSITION, THREE BEAM TO CONCRETE HALF BARRIER, 32" TYPE 'F'
5/12	C-10.30 SH 2	GUARDRAIL TRANSITION, THREE BEAM TO CONCRETE HALF BARRIER, 32" TYPE 'F'
5/12	C-10.40	CONCRETE MEDIAN BARRIER, 32" TYPE 'F', CAST-IN-PLACE
5/12	C-10.41	CONCRETE MEDIAN BARRIER, 42" TYPE 'F', CAST-IN-PLACE
5/12	C-10.42 SH 1	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/12	C-10.42 SH 2	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/12	C-10.42 SH 3	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/12	C-10.50 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F', CAST-IN-PLACE
5/12	C-10.50 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F', PRECAST
5/12	C-10.51	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH SIDEWALK
5/12	C-10.52	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH GUTTER
5/12	C-10.53	CONCRETE HALF BARRIER, 42" TYPE 'F' WITH GUTTER
5/12	C-10.54 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, CAST-IN-PLACE
5/12	C-10.54 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, PRECAST
5/12	C-10.54 SH 3	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, LAYOUT
5/12	C-10.55 SH 1	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, CAST-IN-PLACE
5/12	C-10.55 SH 2	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, PRECAST
5/12	C-10.55 SH 3	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, LAYOUT
5/12	C-10.70 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/12	C-10.70 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/12	C-10.70 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS

ISSUE OR REVISION DATE	STANDARD NO.	SUBJECT CONSTRUCTION
5/12	C-10.71 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
5/12	C-10.71 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
5/12	C-10.72 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/12	C-10.72 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/12	C-10.72 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/12	C-10.73 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
5/12	C-10.73 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
5/12	C-10.74	CONCRETE HALF-BARRIER TRANSITION, 42" TO 32" TYPE 'F'
5/12	C-10.75 SH 1	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F', TANGENT DEPARTURE TYPE 1
5/12	C-10.75 SH 2	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F', TANGENT DEPARTURE TYPE 2
5/12	C-10.76	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' AT RADIUS, 32" TO 0"
5/12	C-10.77	CONCRETE HALF-BARRIER TRANSITION, END TERMINAL CURB AND GUTTER
5/12	C-11.10 SH 1	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 2	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 3	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 4	ROADWAY CATTLE GUARD
5/12	C-11.20	CATTLE GUARD, DRAINAGE
5/12	C-12.10 SH 1	FENCE, WOVEN WIRE
5/12	C-12.10 SH 2	FENCE, BARBED WIRE
5/12	C-12.10 SH 3	FENCE, TYPES 1 AND 2 GATES, FLOOD GATE
5/12	C-12.10 SH 4	FENCE, FLOOD GATE INSTALLATION
5/12	C-12.10 SH 5	FENCE, MISCELLANEOUS DETAILS
5/12	C-12.20 SH 1	FENCE, CHAIN LINK, TYPE 1
5/12	C-12.20 SH 2	FENCE, CHAIN LINK, TYPE 2
5/12	C-12.20 SH 3	FENCE, CHAIN LINK, GATES
5/12	C-12.30 SH 1	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-12.30 SH 2	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-12.30 SH 3	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-13.10 SH 1	PIPE CULVERT INSTALLATION
5/12	C-13.10 SH 2	PIPE CULVERT INSTALLATION
5/12	C-13.15	TYPICAL PIPE INSTALLATION
5/12	C-13.20	PIPE, REINFORCED CONCRETE END SECTION
5/12	C-13.25	PIPE, CORRUGATED METAL END SECTION
5/12	C-13.30	PIPE AND PIPE ARCH, CORRUGATED METAL, CONCRETE INVERT PAVING
5/12	C-13.55	PIPE, CATTLE-VEHICLE PASS, MITERED END TREATMENT
5/12	C-13.60	SLOTTED DRAIN DETAILS
5/12	C-13.65	SLOTTED DRAIN INSTALLATION DETAILS
5/12	C-13.70	STORM DRAIN CONNECTION DETAILS
5/12	C-13.75	STORM DRAIN OUTLET BARRIER GATE
5/12	C-13.76	STORM DRAIN OUTLET AND STORM DRAIN PLUG
5/12	C-13.80	PIPE COLLAR DETAILS
5/12	C-15.10	CATCH BASIN, TYPE 1
5/12	C-15.20 SH 1	CATCH BASIN, TYPE 3
5/12	C-15.20 SH 2	CATCH BASIN, TYPE 3
5/12	C-15.20 SH 3	CATCH BASIN, ACCESS FRAME AND COVER DETAILS
5/12	C-15.30	CATCH BASIN, TYPE 4
5/12	C-15.40 SH 1	CATCH BASIN, TYPE 5
5/12	C-15.40 SH 2	CATCH BASIN, TYPE 5
5/12	C-15.50	CATCH BASIN, FRAME AND GRATE
5/12	C-15.70 SH 1	CATCH BASIN, MISCELLANEOUS DETAILS
5/12	C-15.70 SH 2	CATCH BASIN, MISCELLANEOUS DETAILS
5/12	C-15.75	CATCH BASIN, DROP INLET
5/12	C-15.80	CATCH BASIN, FLUSH
5/12	C-15.81	CATCH BASIN, SIDE SLOPE
5/12	C-15.90	CATCH BASIN, MEDIAN DIKE, PRECAST
5/12	C-15.91 SH 1	FREEWAY CATCH BASIN DETAILS
5/12	C-15.91 SH 2	FREEWAY CATCH BASIN DETAILS
5/12	C-15.92 SH 1	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/12	C-15.92 SH 2	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/12	C-16.40	IRRIGATION SLEEVES
5/12	C-17.10	RAIL BANK PROTECTION FOR DRAINAGEWAYS, TYPES 1, 2 & 3
5/12	C-17.15	RAIL BANK PROTECTION AT ABUTMENTS, TYPES 4, 5 & 6
5/12	C-17.20	BANK PROTECTION FOR DRAINAGEWAYS, TYPES 7, 8 & 9
5/12	C-18.10 SH 1	MANHOLE, RISER DETAILS
5/12	C-18.10 SH 2	MANHOLE, BASE DETAILS, NORMAL INSTALLATION
5/12	C-18.10 SH 3	MANHOLE, FRAME AND COVER DETAILS
5/12	C-19.10 SH 1	FORD, CONCRETE WALLS
5/12	C-19.10 SH 2	FORD, TYPES 1 AND 2
5/12	C-21.10	SURVEY MONUMENT FRAME AND COVER
5/12	C-21.20	SURVEY MARKER

REV.: 05/12

ADOT STANDARD DRAWINGS			
REVISION DATES and STANDARD NO.'s REVIEW			
CONSTRUCTION Standards		NAME G-P	DATE 5/27/16
PROJECT NO. 0000 SC NOG SZ035 OIC		1A OF _____	
RECORD DRAWING DATA	FEDERAL AID NO. NOG-0(20)T	REC. DWG. DATE	_____ OF _____

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	2	23	

0000 SC NOG

MIDPOINT OF PROJECT

Central Zone
State Plane Coordinates

X=1,002,955.75
Y=123,268.02

DESIGN DATA

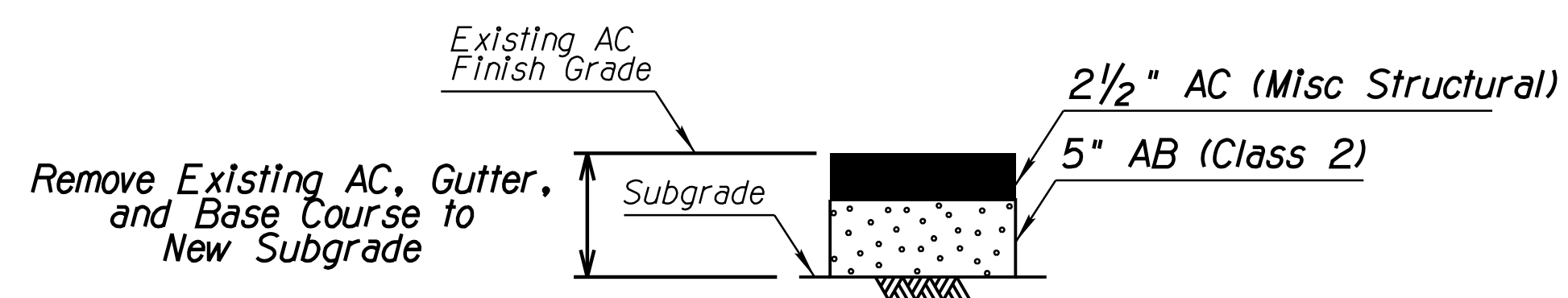
2013 ADT = 826 VPD
DESIGN SPEED = 30 MPH

INDEX OF SHEETS

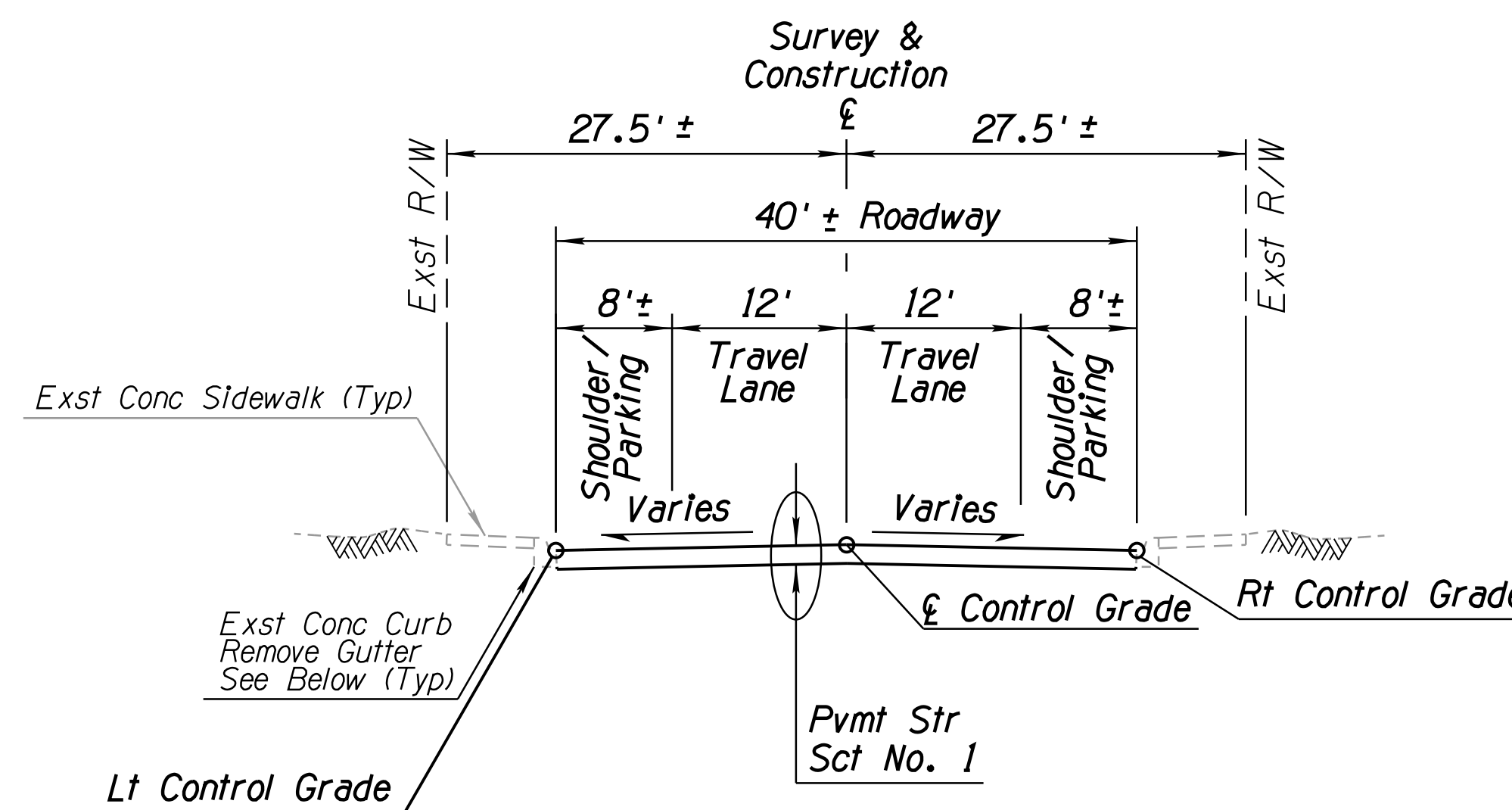
Sheet No.	Drawing No.	Sheet Type
1	-	Face Sheet
1A	-	ADOT Standard Drawing C Standards
2	DS 1	Design Sheet
3-6	DT 1-4	Details
7	HC 1	Horizontal Control
8-12	P 1-5	Plan Sheets
13-15	TC 1-3	Traffic Control Plan Sheets
16-21	SS 1-6	Signing & Striping
22-23	SW 1-2	Storm Water Pollution Prevention Plan

LENGTH OF PROJECT

CRAWFORD Sta 10+40.75 to 29+46.04 = 1,905.29'
Gross & Net Length = 1,905.29' - 0.36 Miles



Total Thickness = 7.5"
SECTION NO. 1



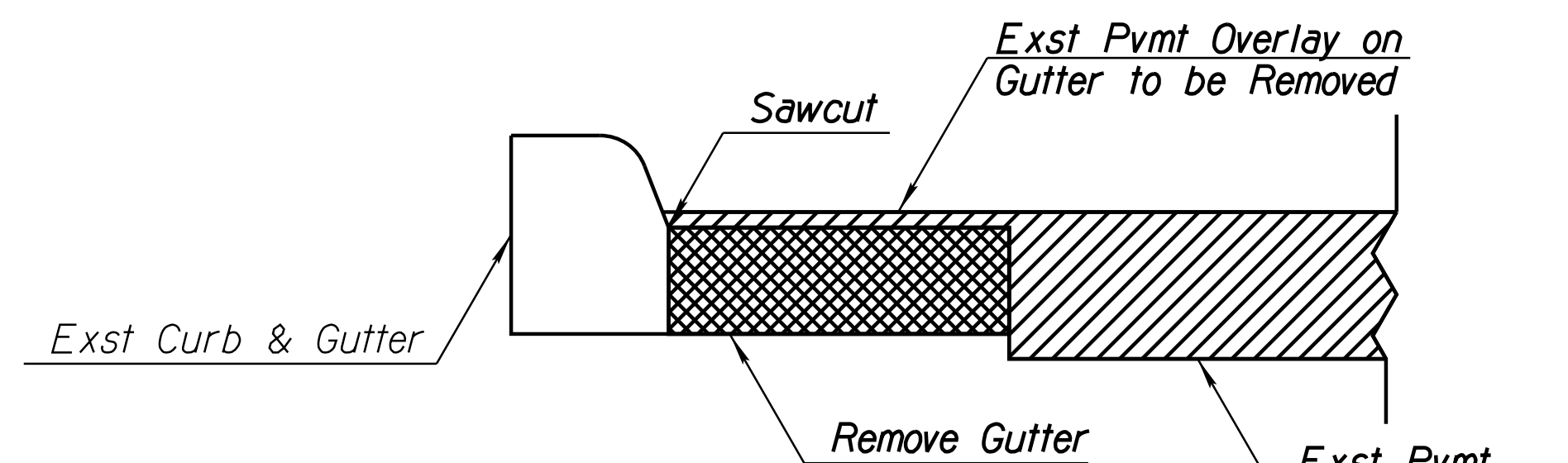
TYPICAL SECTION
Sta 10+40.75 to 29+46.04

GENERAL NOTES

- The roadway plans have been designed utilizing the 2012 Construction Standard Drawings (C-Series) and current revisions. Refer to the 1A sheet for a listing of current revision dates.
- The project roadway shall be striped and signed by the contractor in accordance with the current edition of the Signing and Marking Standard Drawings (M&S-Series) and the pavement marking and signing plans.
- Where only the horizontal location of an existing utility is shown, the location is approximate. Where both the horizontal and vertical locations of an existing utility are shown, the locations have been verified by field survey methods. The contractor shall comply with all current Blue Stake laws and Section 107.15 of the Specifications.
- Survey Markers will be furnished by the State and shall be placed by the Contractor. Std C-21.20.
- Pavement lift thickness is nominal.
- The average project elevation is 3960 ft.
- All work will be within existing R/W. New R/W and Easements are not required.

NOTE ON WATER FACILITIES

The contractor shall note that water facilities shown in plans were not constructed at the time of design completion (May 2016), but are expected to be installed by the City of Nogales prior to roadway construction. Water facilities shown in plans represents the best information available on expected field conditions and are based on water line design plans, not on verified field observation. The contractor shall be aware that installed facilities may differ from design plans and shall field verify above ground water facilities prior to construction. The contractor is advised to contact the City of Nogales per the contact information in Section 107.15 in the Special Provisions to obtain any as-built information related to water facilities.



GUTTER REMOVAL DETAIL

DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	RC		5/16		
CHECKED	SS		5/16		
PSOMAS 353 E. Wetmore Road, Suite 450 Tucson, AZ 85705 (520) 292-2300 (520) 292-2300 fax www.psomas.com				CRAWFORD ST DESIGN SHEET	
ROUTE	LOCATION			SHEET DSI OF DSI	
	CRAWFORD STREET: MCNAB DRIVE TO SONOITA AVE			OF	
TRACS NO. SZ035 01C			NOG-0(20)1T		

SURVEY NO. DATE FINISHED PLANS REVISIONS LOCATION DATE FINISHED PLANS SURVEY NO. DATE FINISHED PLANS REVISIONS LOCATION DATE FINISHED PLANS SURVEY NO.

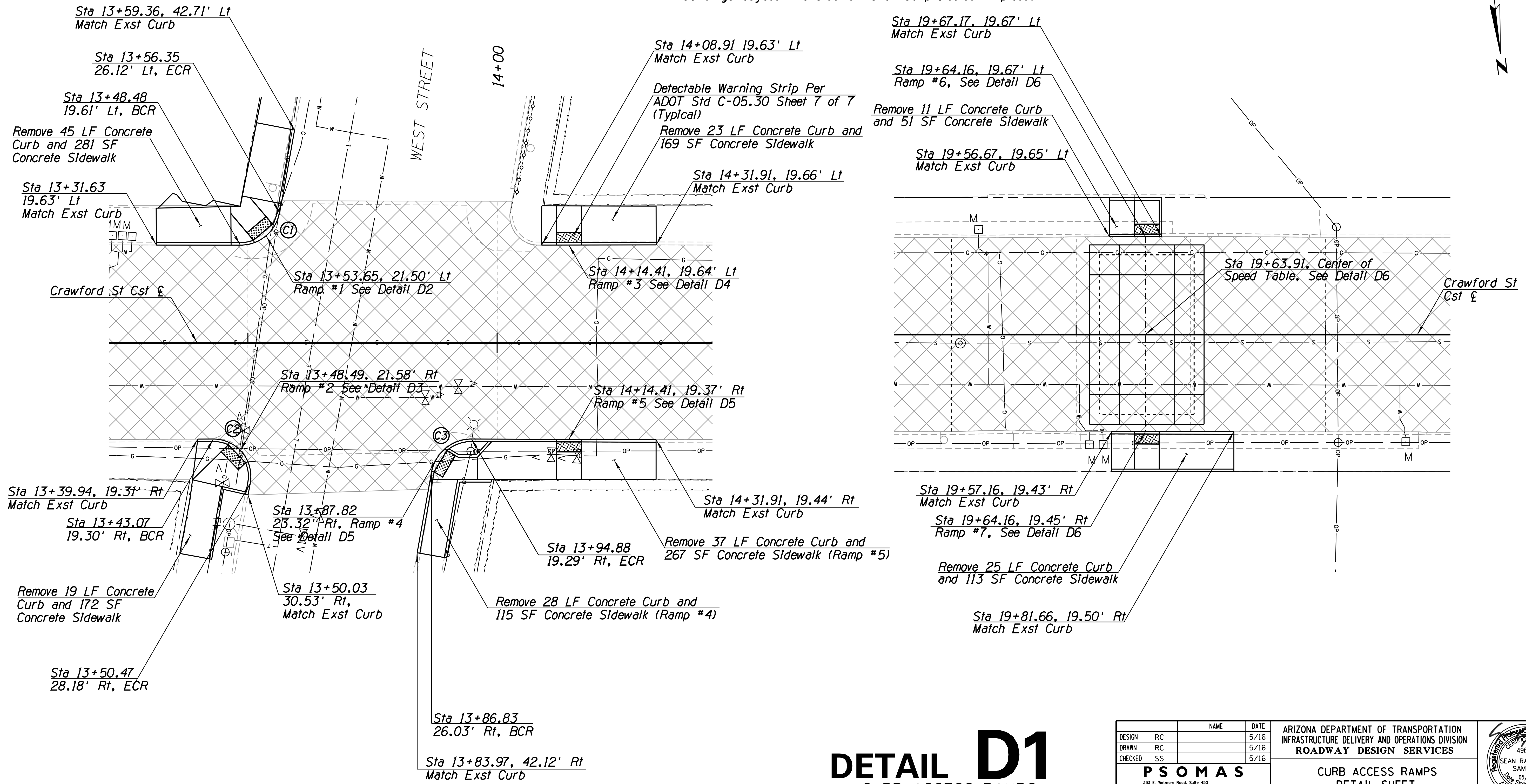
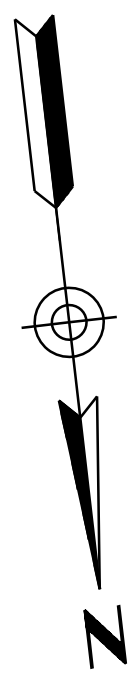
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	8.00'	11.07'	79°16'07"	6.63'
C2	7.50'	13.21'	100°53'08"	9.08'
C3	8.15'	11.41'	80°11'00"	6.86'

Access Ramp Notes:

1. See Details D2-D6 for ramp grading information. Wing lengths held at 15' max per ADOT Std Dtl C-05.30.
2. See Section 908 of the Standard Specifications for construction requirements.
3. Ramp concrete shall receive a rough broom finish
4. See ADOT Std Dtl C-05.10 and C-05.20 for joint details.
5. Sidewalk and curb within limits of ramp reconstruction shall be sawcut and removed. Walls and buildings adjacent to sidewalk shall be protected in place.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	3	23	

0000 SC NOG



DETAIL D1

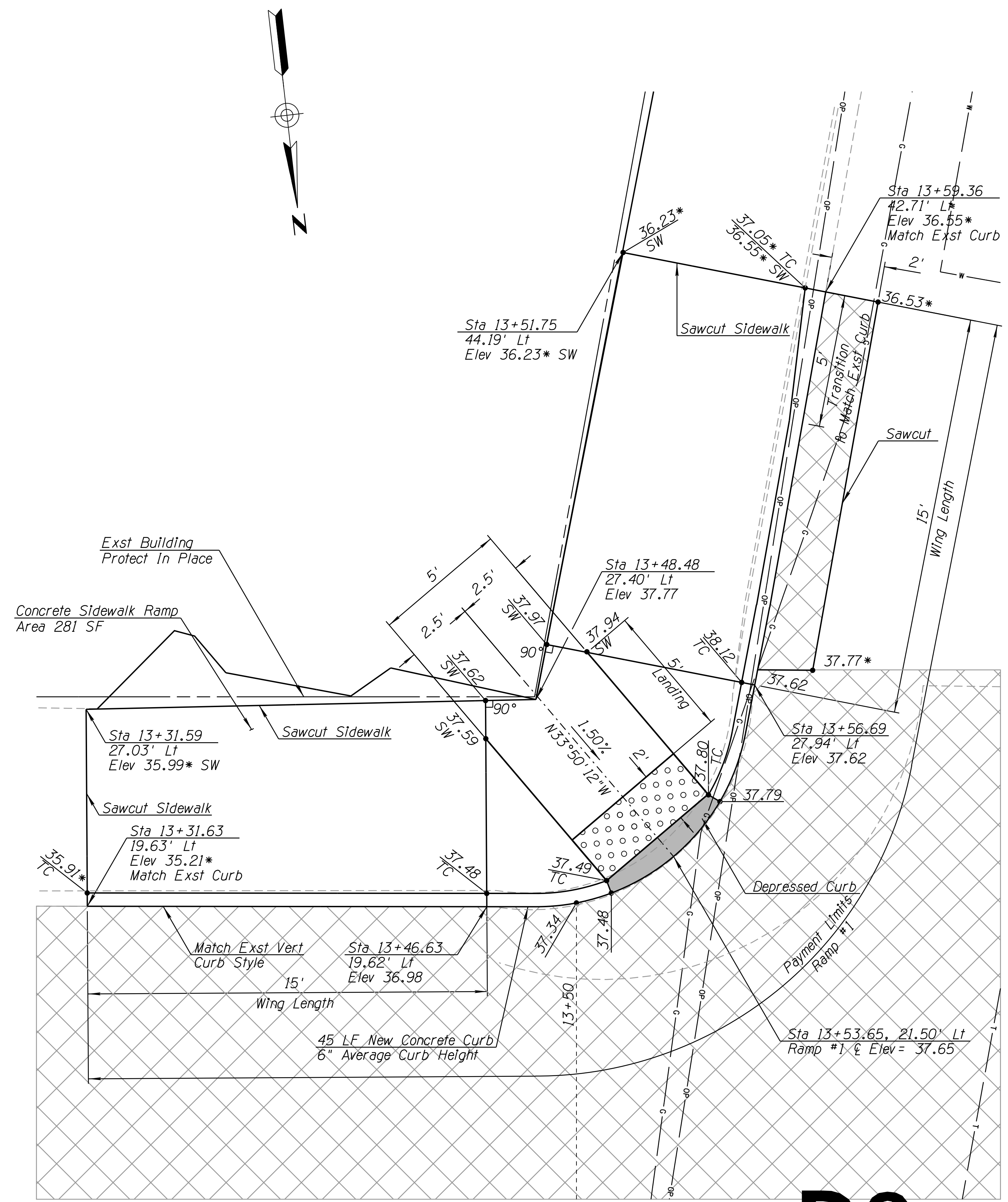
CURB ACCESS RAMPS OVERVIEW

NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DESIGN RC	5/16	PSOMAS <small>353 E. Wetmore Road, Suite 450 Tucson, AZ 85710 (520) 292-2300 (520) 292-1290 fax www.psomas.com</small>	
DRAWN RC	5/16		
CHECKED SS	5/16		
ROUTE LOCATION		CRAWFORD STREET: MCNAB DRIVE TO SONOITA AVE	SHEET DT1 OF DT4
TRACS NO. SZ035 01C		NOG-0(20)1T	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	4	23	

0000 SC NOG

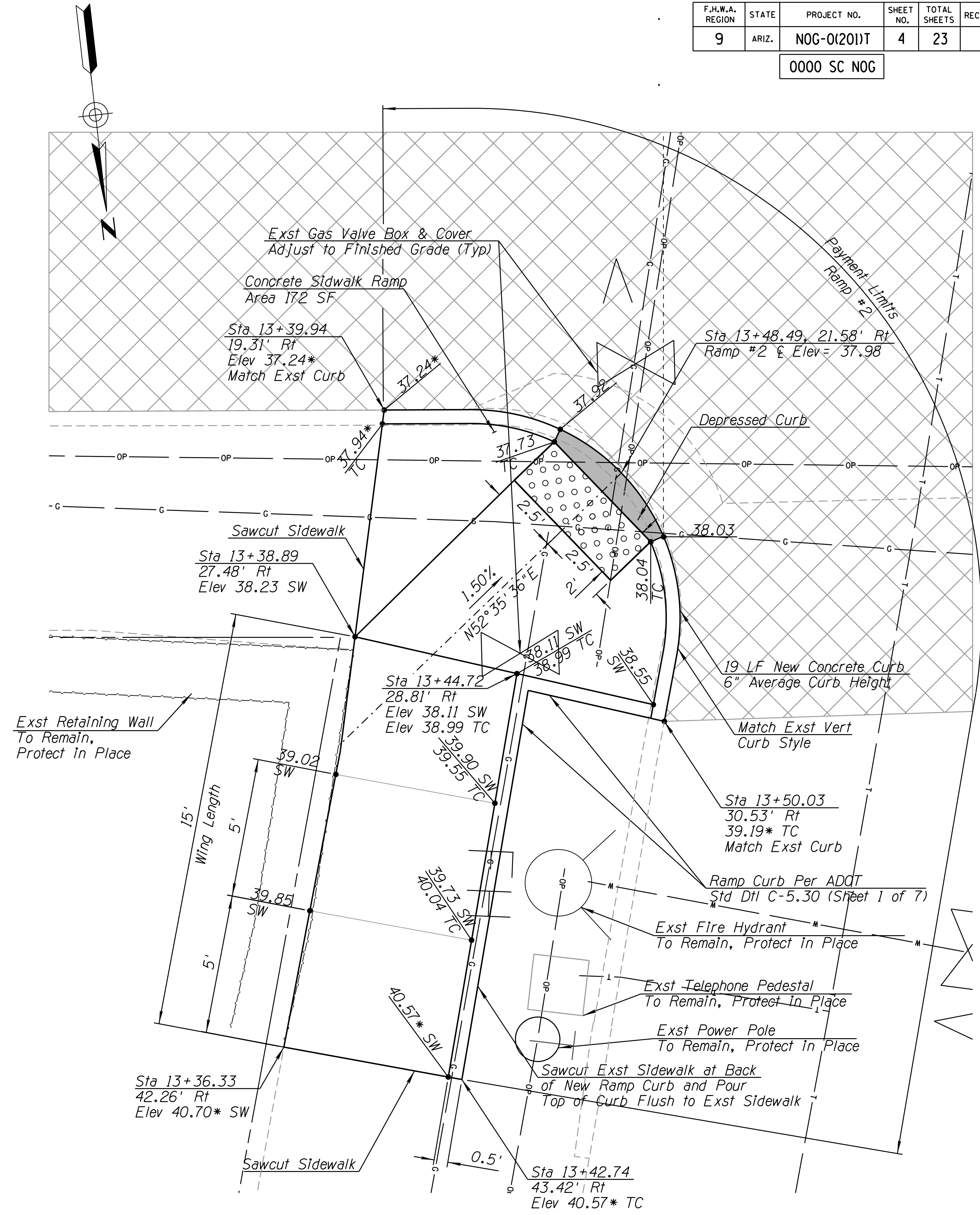
SURVEY NO. REVISIONS- FINISHED PLANS- DATE- LOCATION- REVISIONS- FINISHED PLANS- DATE- LOCATION- REVISIONS- FINISHED PLANS- DATE-



Note: All Elevation Are Pavement Grades Unless Otherwise Noted.
 *=Existing Elevation
 TC= Top Of Curb Elevation
 SW= Sidewalk Elevation
 All Elevations Are Base 3900 Unless Otherwise Noted

DETAIL D2

RAMP #1
CRAWFORD ST SE QUADRANT



DETAIL D3

RAMP #2
CRAWFORD ST NE QUADRANT

NAME	DATE
DESIGN RC	5/16
DRAWN RC	5/16
CHECKED SS	5/16

PSOMAS
 353 E. Wetmore Road, Suite 450
 Tucson, AZ 85710
 (520) 292-2300 (520) 292-1290 fax www.psomas.com

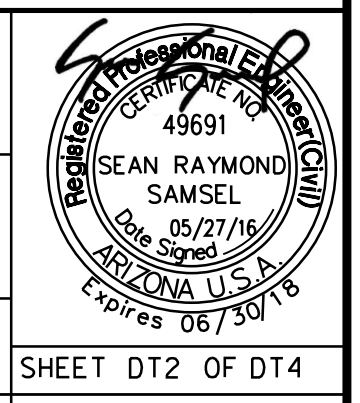
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SERVICES

CURB ACCESS RAMPS
DETAIL SHEET

ROUTE LOCATION CRAWFORD STREET: MCNAB DRIVE TO SONOITA AVE

TRACS NO. SZ035 01C

NOG-0(20)1T

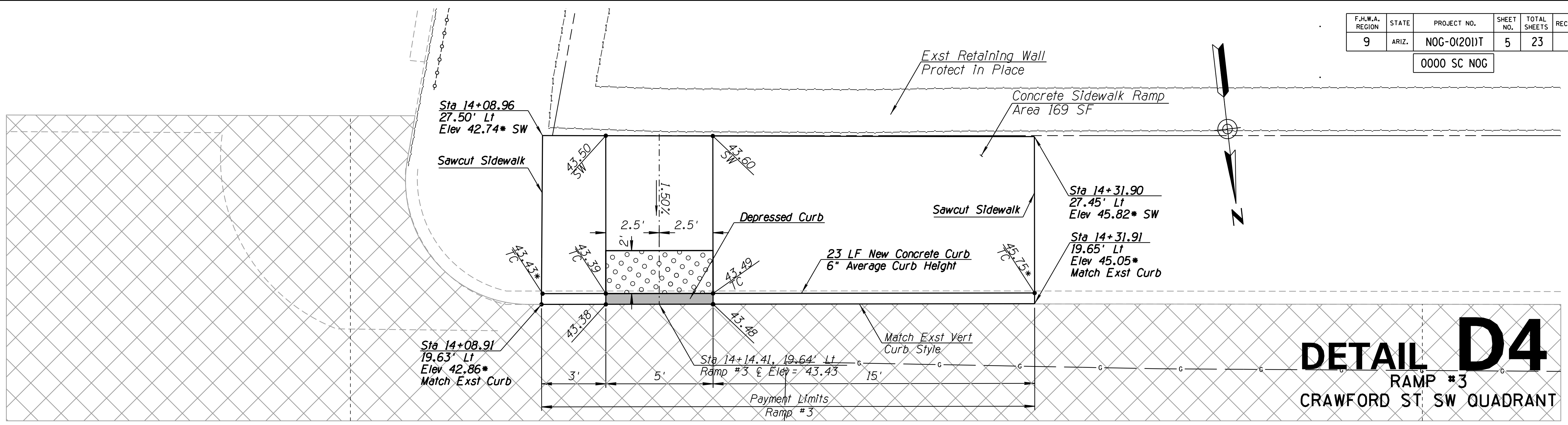


SHEET DT2 OF DT4

OF

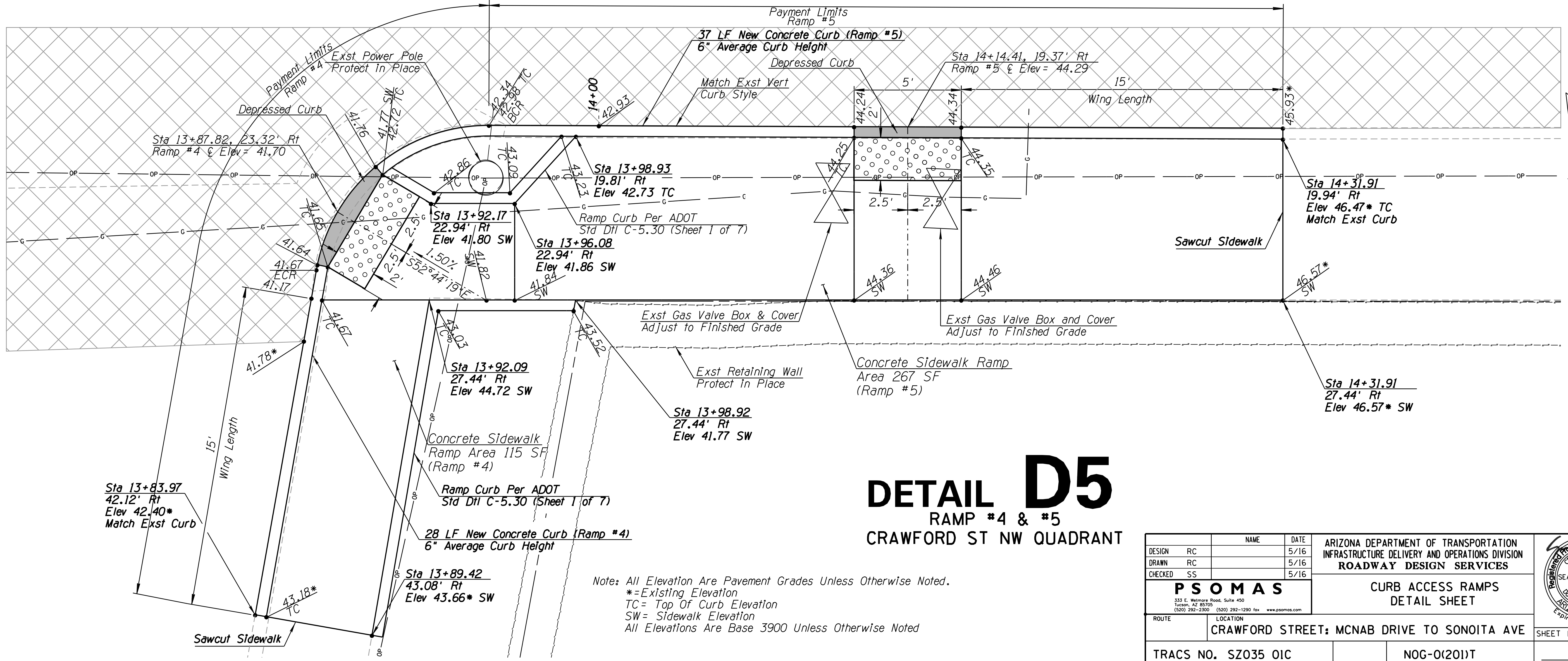
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	5	23	

0000 SC NOG



DETAIL D4

RAMP #3
CRAWFORD ST SW QUADRANT



DETAIL D5

RAMP #4 & #5
CRAWFORD ST NW QUADRANT

Note: All Elevation Are Pavement Grades Unless Otherwise Noted.
 *=Existing Elevation
 TC= Top Of Curb Elevation
 SW= Sidewalk Elevation
 All Elevations Are Base 3900 Unless Otherwise Noted

DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	RC		5/16		
CHECKED	SS		5/16		
PSOMAS <small>353 E. Wetmore Road, Suite 450 Tucson, AZ 85705 (520) 292-2300 (520) 292-1290 fax www.psomas.com</small>				CURB ACCESS RAMPS DETAIL SHEET	
ROUTE	LOCATION			SHEET DT3 OF DT4	
TRACS NO. SZ035 01C	CRAWFORD STREET: MCNAB DRIVE TO SONOITA AVE			NOG-0(20)1T	
				OF	

SURVEY NO. FINISHED PLANS- LOCATION- REVISIONS- DATE- FINISHED PLANS- SURVEY NO. LOCATION- REVISIONS- DATE- FINISHED PLANS- SURVEY NO.

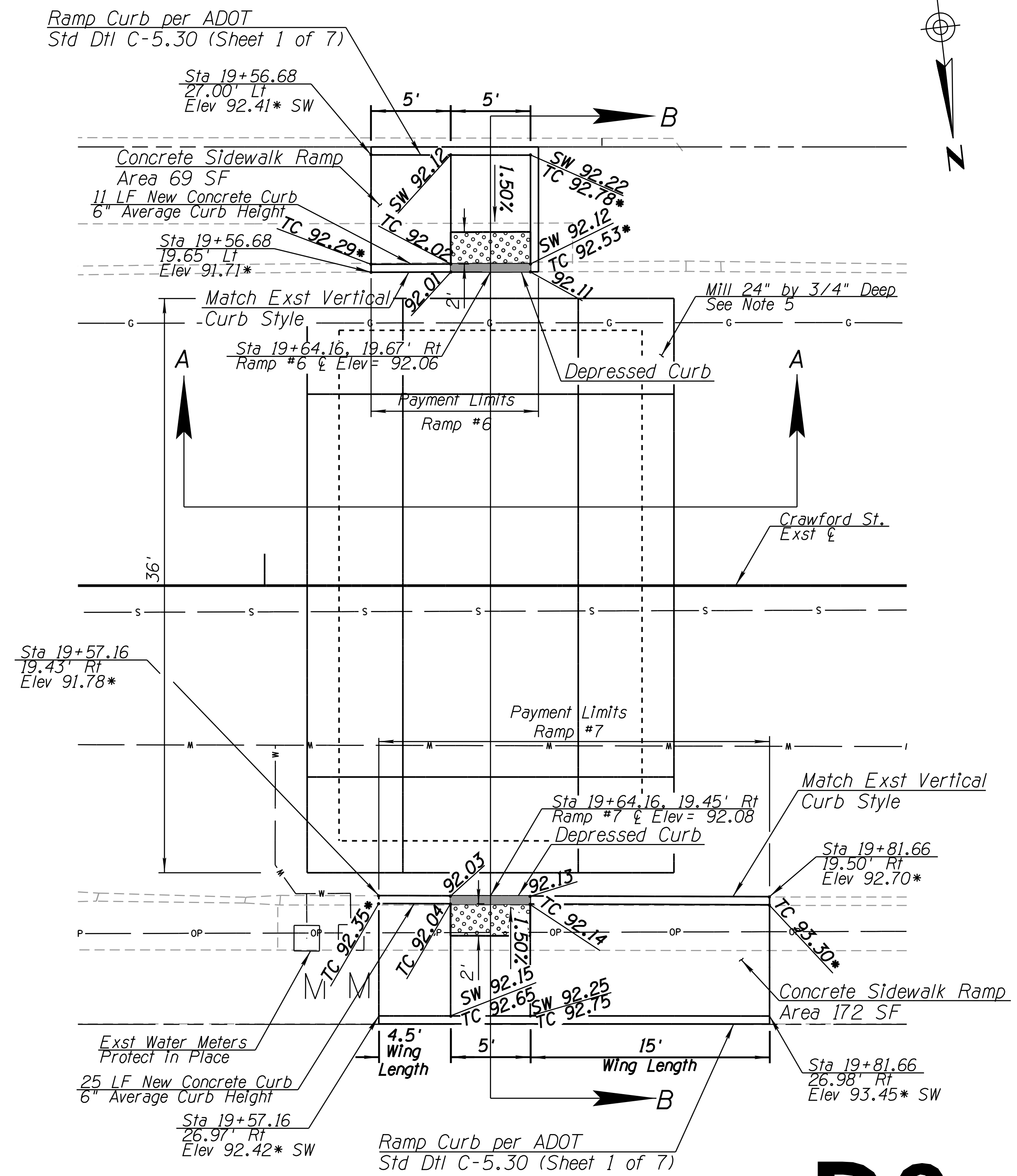
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	6	23	

0000 SC NOG

DATE: _____ LOCATION: _____ REVISIONS: _____ FINISHED PLANS: _____ SURVEY NO.: _____ DATE: _____ LOCATION: _____ REVISIONS: _____ FINISHED PLANS: _____ SURVEY NO.: _____

Notes:

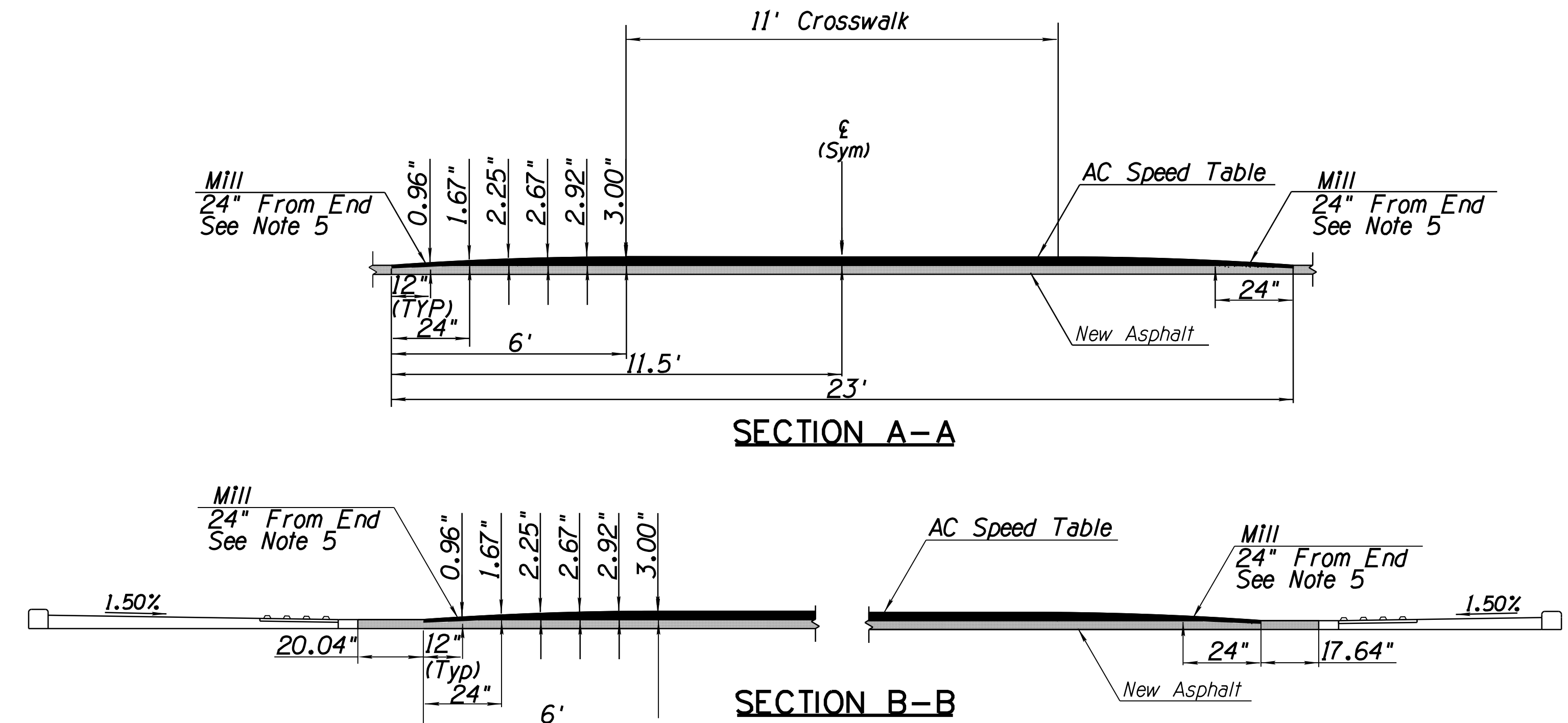
1. Speed table must be the full 3" for maximum effect but shall not exceed 3.25".
2. Humps constructed over 3.25" or less than 3.00" shall be removed and replaced at no additional cost to the Department.
3. Cross-section elevations shall have a maximum tolerance of +0.25".
4. Speed table to be constructed with asphalt concrete (miscellaneous structural). Tack coat shall be applied prior to application of pavement.
5. Installation joints: The roadway shall be milled to a minimum depth of 3/4" around the perimeter. Cross section dimensions do not include the 3/4" milling. Contractor shall provide verification of cross-section dimensions.
6. Payment for speed table will be made by Item No. 9240117.



DETAIL D6

Sta 19+61.64
CURB ACCESS RAMPS #6, #7,
& SPEED TABLE

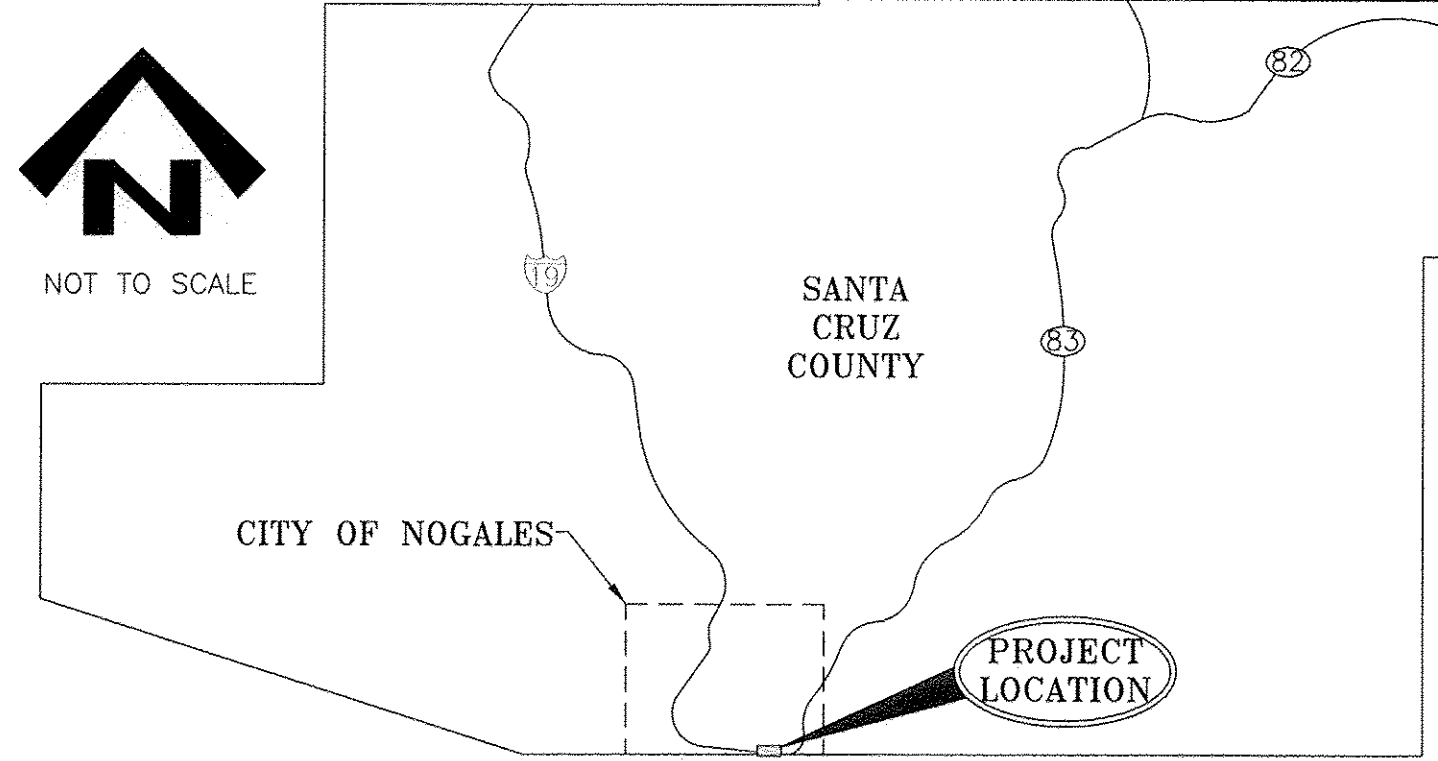
Note: All Elevation Are Pavement Grades Unless Otherwise Noted.
 *=Existing Elevation
 TC= Top Of Curb Elevation
 SW= Sidewalk Elevation
 All Elevations Are Base 3900 Unless Otherwise Noted



DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	RC		5/16		
CHECKED	SS		5/16		
PSOMAS				CURB ACCESS RAMPS DETAIL SHEET	
ROUTE	LOCATION			SHEET DT4 OF DT4	
TRACS NO. SZ035 01C	CRAWFORD STREET: MCNAB DRIVE TO SONOITA AVE			NOG-0(20)1T	
				OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(201)T	7	23	

0000 SC NOG



GENERAL NOTES

1) BASIS OF DATUM
 HORIZONTAL CONTROL
 THIS PROJECT UTILIZES THE ARIZONA COORDINATE SYSTEM, 1983 (ACS 83), INTERNATIONAL FEET, AND IS LOCATED IN THE CENTRAL ZONE. THE CONTROL NETWORK WAS SURVEYED IN MAY, 2013 USING TRIMBLE GPS UNITS UTILIZING RTK METHODS AND INCORPORATED THE FOLLOWING CITY OF NOGALES GIS DATABASE CONTROL SURVEY AND SANTA CRUZ COUNTY CONTROL POINTS:

PT. NO.	STATION	PID	
1	276	NOG-276	* PRIMARY CONTROL POINT
2	332	NOG-332	
3	331	NOG-331	
35C	-	-	SANTA CRUZ CO.

THE BASIS OF BEARING IS FROM POINT NO. 1, BEING A 3" ADOT BRASS DISK IN A HAND WELL AT THE INTERSECTION OF CRAWFORD STREET AND SONOITA AVENUE, TO POINT NO. 3, BEING A CHISELED "X" IN THE TOP OF THE NORTH CURB AT THE WEST END OF CRAWFORD STREET, SAID BEARING BEING N 82° 51' 24" W. THE REFERENCE MERIDIAN IS ACS 83 GRID NORTH.

VERTICAL CONTROL
 THE VERTICAL DATUM FOR THIS PROJECT IS THE NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD88). THE BENCH MARKS USED FOR THIS PROJECT WERE:

PT. NO.	STATION	ELEVATION
1	276	3900.99'
2	332	3939.67'
3	331	4024.44'

ORTHOMETRIC HEIGHTS (ELEVATIONS) WERE DERIVED FROM GPS MEASUREMENT OF ELLIPSOID HEIGHTS AND TRANSFORMED USING A HIGH RESOLUTION GEOID MODEL, GEOID 12A.

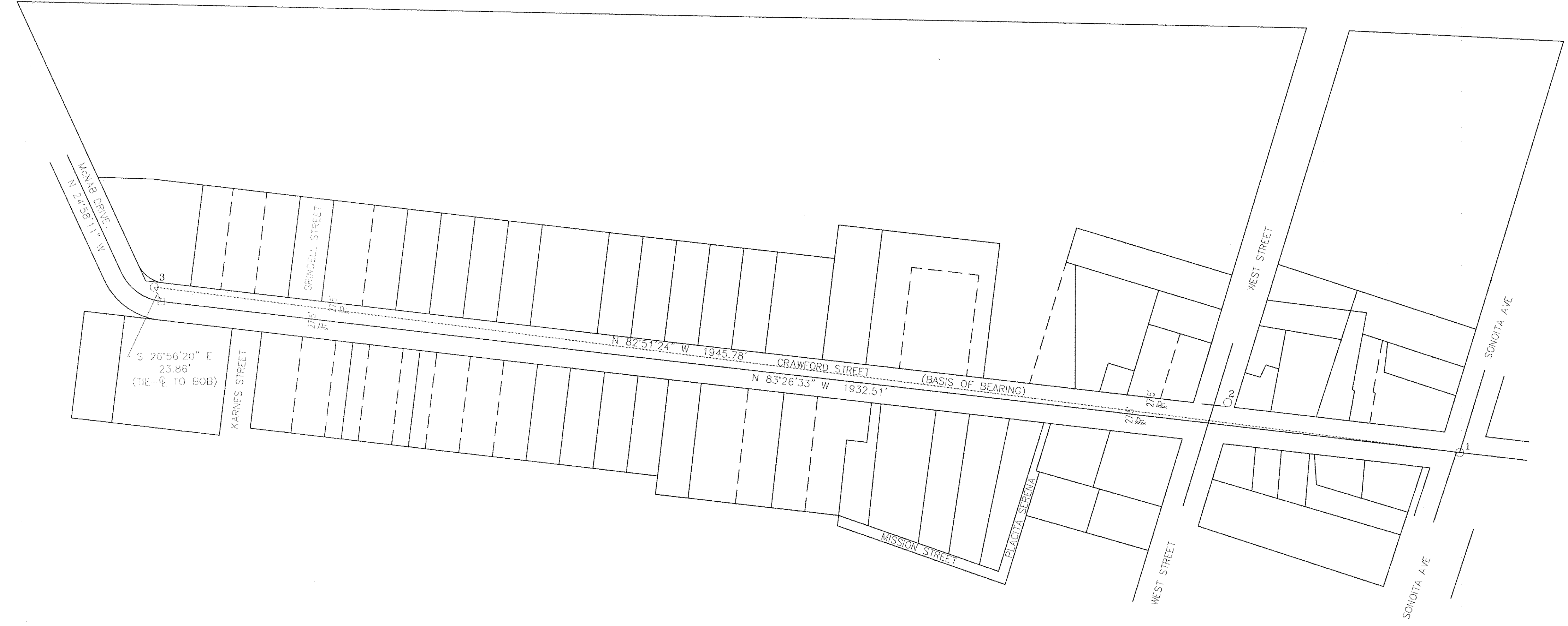
- 2) THIS SURVEY IS BASED UPON A SURVEY AND PLANS PREPARED BY CPE CONSULTANTS FOR THE CITY OF NOGALES TITLED "CRAWFORD STREET/McNAB DRIVE WATER MAIN REPLACEMENT", DATED MARCH 2012.
- 3) THIS SURVEY WAS PERFORMED TO SHOW THE RECORD RIGHT-OF-WAY OF CRAWFORD STREET FROM SONOITA AVENUE TO McNAB DRIVE, INTERSECTING ROADWAYS, RIGHTS OF WAY, EASEMENTS AND PARCEL BOUNDARIES ARE ILLUSTRATED FOR CLARITY ONLY. LINENWORK IS A MIXTURE OF RECORD, SURVEYED AND CALCULATED DATA. ALTERNATE LOCATIONS MAY RESULT WITH ADDITIONAL FIELD SURVEY. ALL ASPECTS (INCLUDING CURRENT LEGAL STATUS) OF SAID ADJACENT AND INTERSECTING ENTITIES SHOULD BE VERIFIED.
- 4) NO TITLE REPORTS WERE PROVIDED FOR THIS PROJECT. PSOMAS ASSUMES NO LIABILITY FOR INFORMATION WHICH MAY BE REVEALED BY THE REPORTS.
- 5) THERE MAY BE QUESTIONS CONCERNING THE WIDTH AND LOCATION OF THE ROADWAYS AND/OR RIGHTS OF WAY FOR CRAWFORD STREET AND/OR ADJOINING ROADS. THIS RIGHT-OF-WAY MAP DOES NOT PURPORT TO DISCERN SUCH LEGAL ISSUES. LINENWORK INDICATING RIGHTS-OF-WAY DEPICT THE LOCATION AS DETERMINED BY AN EQUAL SPLIT OF THE EXISTING PAVEMENT AND OFFSET ON EITHER SIDE BY HALF THE RECORD RIGHT OF WAY WIDTH AS SHOWN IN RECORDED DOCUMENTS. ISSUES OF LEGALITY OF OWNERSHIP ARE DEFERRED TO THE CITY OF NOGALES.
- 6) PER ARS §21-151 THE USE OF THE WORD "CERTIFY" OR "CERTIFICATION" BY A PERSON OR FIRM THAT IS REGISTERED OR CERTIFIED BY THE BOARD IS AN EXPRESSION OF PROFESSIONAL OPINION REGARDING FACTS OR FINDINGS THAT ARE THE SUBJECT OF THE CERTIFICATION AND DOES NOT CONSTITUTE AN EXPRESS OR IMPLIED WARRANTY OR GUARANTEE.
- 7) PER ARS §33-103 A PERSON WHO KNOWINGLY OR BY GROSS NEGLIGENCE DESTROYS, DISFIGURES, REMOVES OR DISTURBS MONUMENTS DESCRIBED IN SUBSECTION C OF ARS §33-105 OR OTHER PERMANENT MONUMENTS SET BY THE LAND SURVEYOR WHICH HAVE THE LAND SURVEYOR'S OR PUBLIC AGENCY'S CAP OR TAG AFFIXED TO THE MONUMENT IS GUILTY OF A CLASS 2 MISDEMEANOR AND MAY BE CIVILLY LIABLE FOR ALL COSTS ASSOCIATED WITH RESTORATION OR REPLACEMENT OF ANY MONUMENT DESTROYED, DISFIGURED, REMOVED OR DISTURBED.

REFERENCES

- MAPS AND PLATS**
 M&P OF LYDIA PARK, NOGALES, ARIZONA
 M&P OF BELLA VISTA, NOGALES, ARIZONA
 M&P OF LIBERTY PLACE, NOGALES, ARIZONA
 M&P OF THE CITY OF NOGALES, CITY MAP NO. 1004

ASSESSOR'S MAPS

- BOOK 101, MAP 43
 BOOK 101, MAP 44
 BOOK 101, MAP 45
 BOOK 101, MAP 46



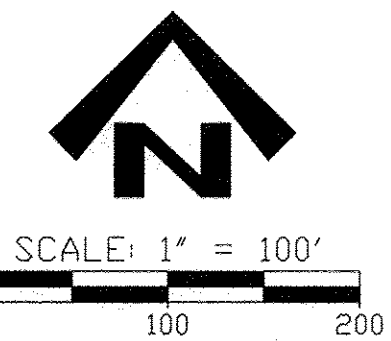
MONUMENT TABLE

POINT	NORTHING	EASTING	DESCRIPTION
1	123154.5700	1003942.6470	3" ADOT BRASS DISK IN A HAND WELL
2	123227.7420	1003599.6390	CHISELED "X" ON TOP OF CURB
3	123396.5340	1002011.9700	CHISELED "X" ON TOP OF CURB

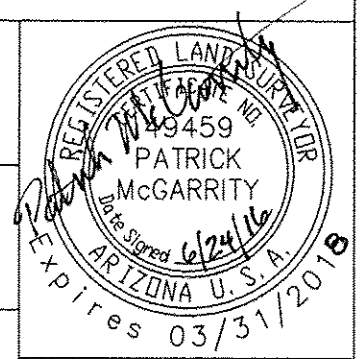
SURVEYOR'S CERTIFICATION

I CERTIFY THAT THE FIELD SURVEY AND PREPARATION OF THIS MAP WAS PERFORMED UNDER MY DIRECTION.

P. McGARRITY, R.L.S.
 ARIZONA REGISTERED LAND SURVEYOR NO. 49459

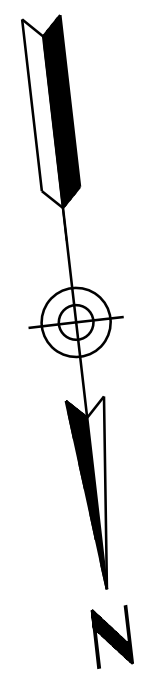


DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	PM	6/13	
CHECKED	SM	6/13	
PSOMAS <small>333 E. Wetmore Road, Suite 450 Nogales, AZ 85601 (520) 292-2300 (520) 292-1290 fax www.psomas.com</small>			CRAWFORD STREET PAVEMENT RECONSTRUCTION McNAB DRIVE TO SONOITA AVENUE
ROUTE	LOCATION	TOWNSHIP 24 SOUTH, RANGE 14 EAST, SECTION 18	
TRACS NO. SZ035 01C			NOG-0(201)T
SHEET 1 OF 1			OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	8	23	

0000 SC NOG



10+00

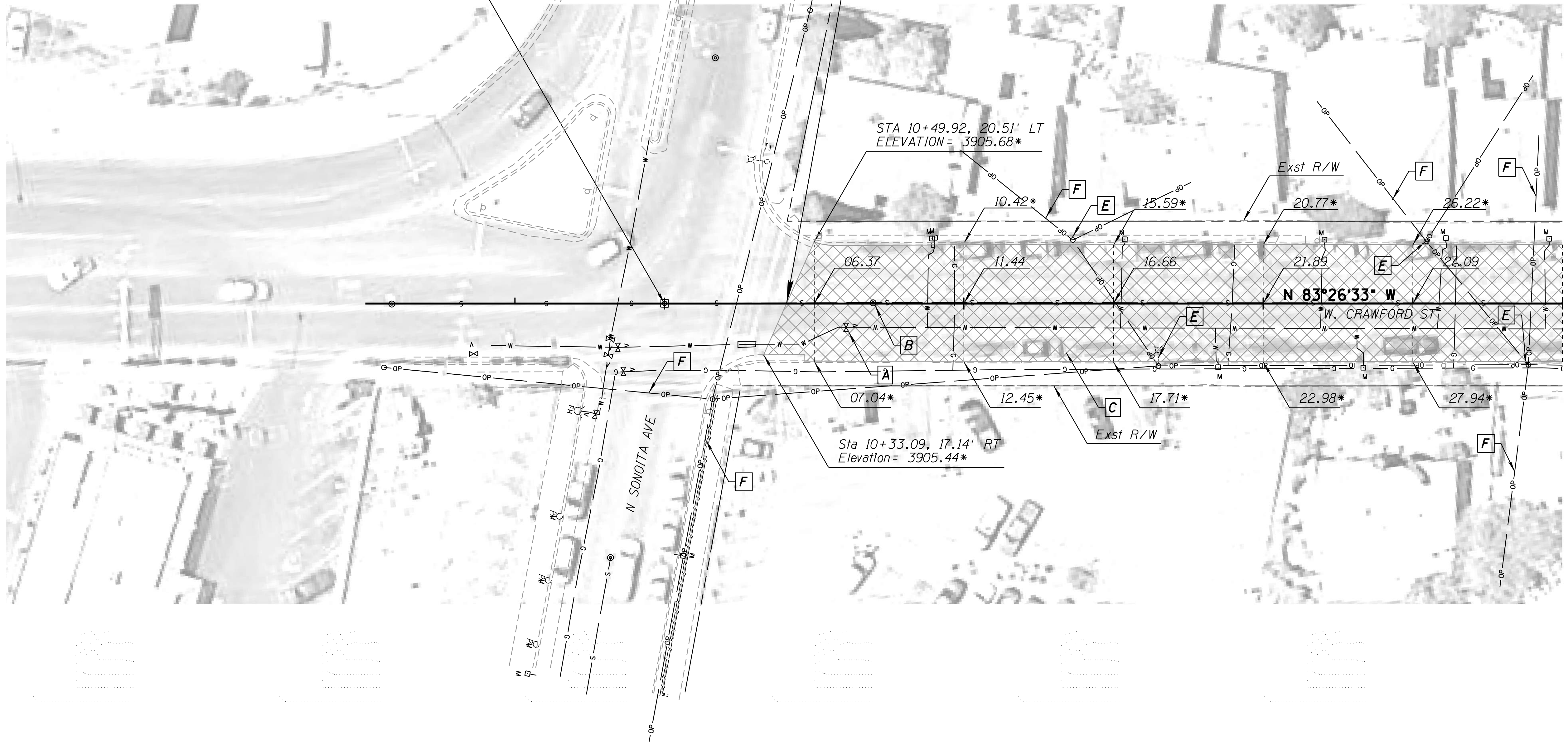
11+00

12+00

13+00

Sta 10+00.00, Point 1
3" ADOT Brass Disk In Hand Well
Bench Survey Monument to Remain, Protect in Place

Sta 10+40.75
Begin Project SZ035 01C



STA 10+49.92, 20.51' LT
ELEVATION = 3905.68*

Sta 10+33.09, 17.14' RT
Elevation = 3905.44*

Note: Elevations Shown Every 50'.
*=Existing Elevation
All Elevations Are Base 3900 Unless Otherwise Noted

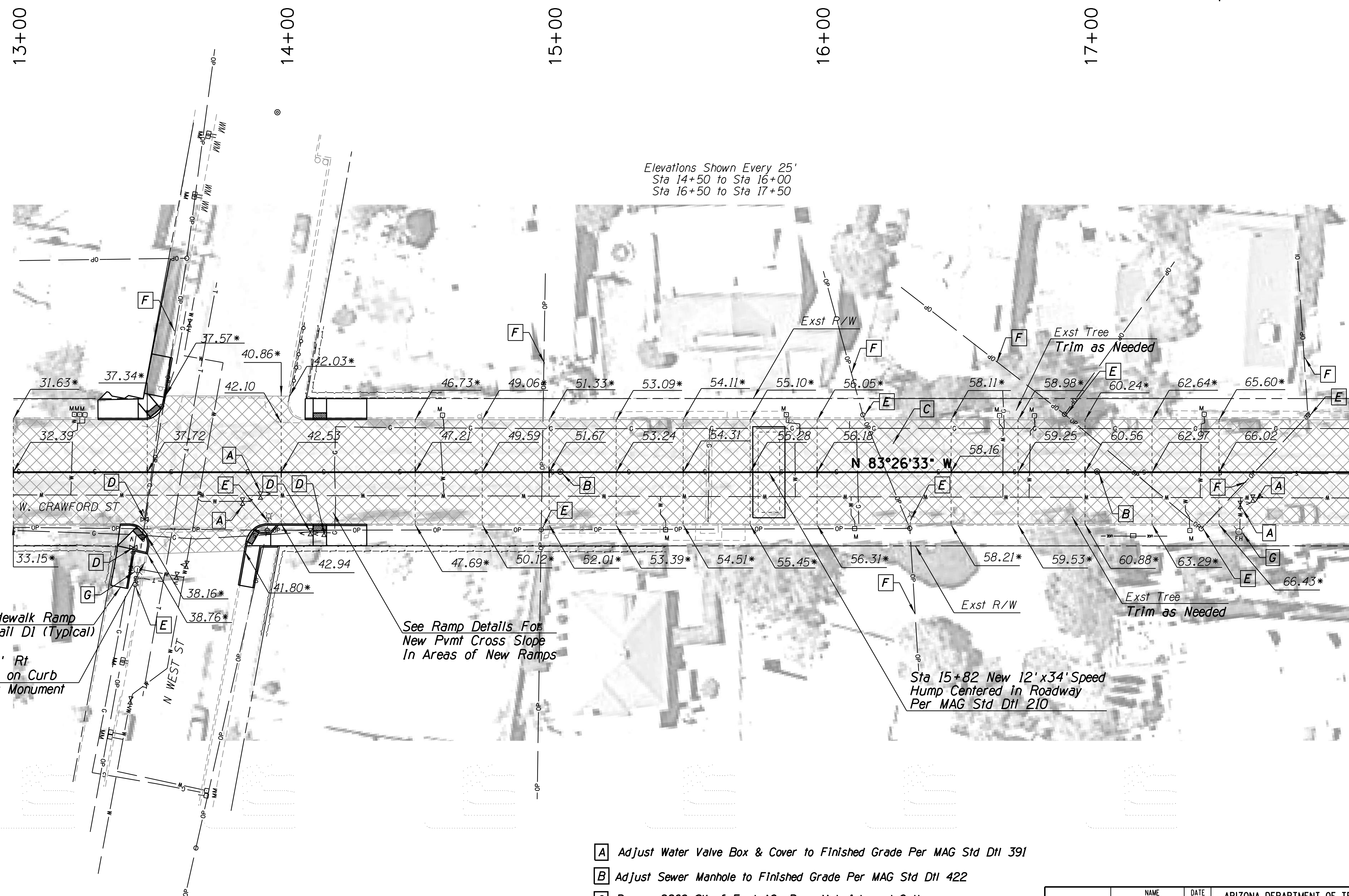
- A** Adjust Water Valve Box and Cover to Finished Grade Per MAG Std Dtl 391
- B** Adjust Sewer Manhole to Finished Grade Per MAG Std Dtl 422
- C** Remove 1118 SY of Exst AC, Base Material, and Gutter
- E** Exst Steel Light/Power Pole, Protect in Place
- F** Exst Overhead Line, Protect in Place

DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	RC		5/16		
CHECKED	SS		5/16		
PSOMAS				STA 9+00 TO 13+00 PLAN SHEET	
ROUTE	LOCATION			SHEET PI OF P5	
TRACS NO. SZ035 01C	CRAWFORD STREET: MCNAB DRIVE TO SONOITA AVE			NOG-0(20)1T	
				OF	

SURVEY NO. FINISHED PLANS- LOCATION- DATE- REVISIONS- FINISHED PLANS- LOCATION- DATE- REVISIONS- FINISHED PLANS- LOCATION- DATE- REVISIONS-

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	9	23	

0000 SC NOG



Elevations Shown Every 25'
Sta 14+50 to Sta 16+00
Sta 16+50 to Sta 17+50

New Sidewalk Ramp
See Detail D1 (Typical)

Sta 13+49.12, 33.52' Rt
Point 2, Chiseled "X" on Curb
Set New Bench Survey Monument
per C-21.10

See Ramp Details For
New Pymt Cross Slope
In Areas of New Ramps

Sta 15+82 New 12' x 34' Speed
Hump Centered in Roadway
Per MAG Std D11 210

Note: Elevations Shown Every 50'.
* = Existing Elevation
All Elevations Are Base 3900 Unless Otherwise Noted

- A** Adjust Water Valve Box & Cover to Finished Grade Per MAG Std D11 391
- B** Adjust Sewer Manhole to Finished Grade Per MAG Std D11 422
- C** Remove 2260 SY of Exst AC, Base Material, and Gutter
- D** Adjust Gas Valve Box and Cover to Finished Grade
- E** Exst Steet Light/Power Pole, Protect In Place
- F** Exst Overhead Line, Protect In Place
- G** Exst Fire Hydrant, Protect In Place

DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	RC		5/16		
CHECKED	SS		5/16		
PSOMAS 353 E. Wetmore Road, Suite 450 Tucson, AZ 85705 (520) 292-2300 (520) 292-1290 fax www.psomas.com				STA 13+00 TO 18+00 PLAN SHEET	
ROUTE	LOCATION			SHEET P2 OF P5	
TRACS NO. SZ035 01C				NOG-0(20)1T	
				OF	

SURVEY NO. FINISHED PLANS- LOCATION- DATE- REVISIONS- FINISHED PLANS- LOCATION- DATE- REVISIONS- SURVEY NO. FINISHED PLANS- LOCATION- DATE- REVISIONS-

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	10	23	

0000 SC NOG

18+00

19+00

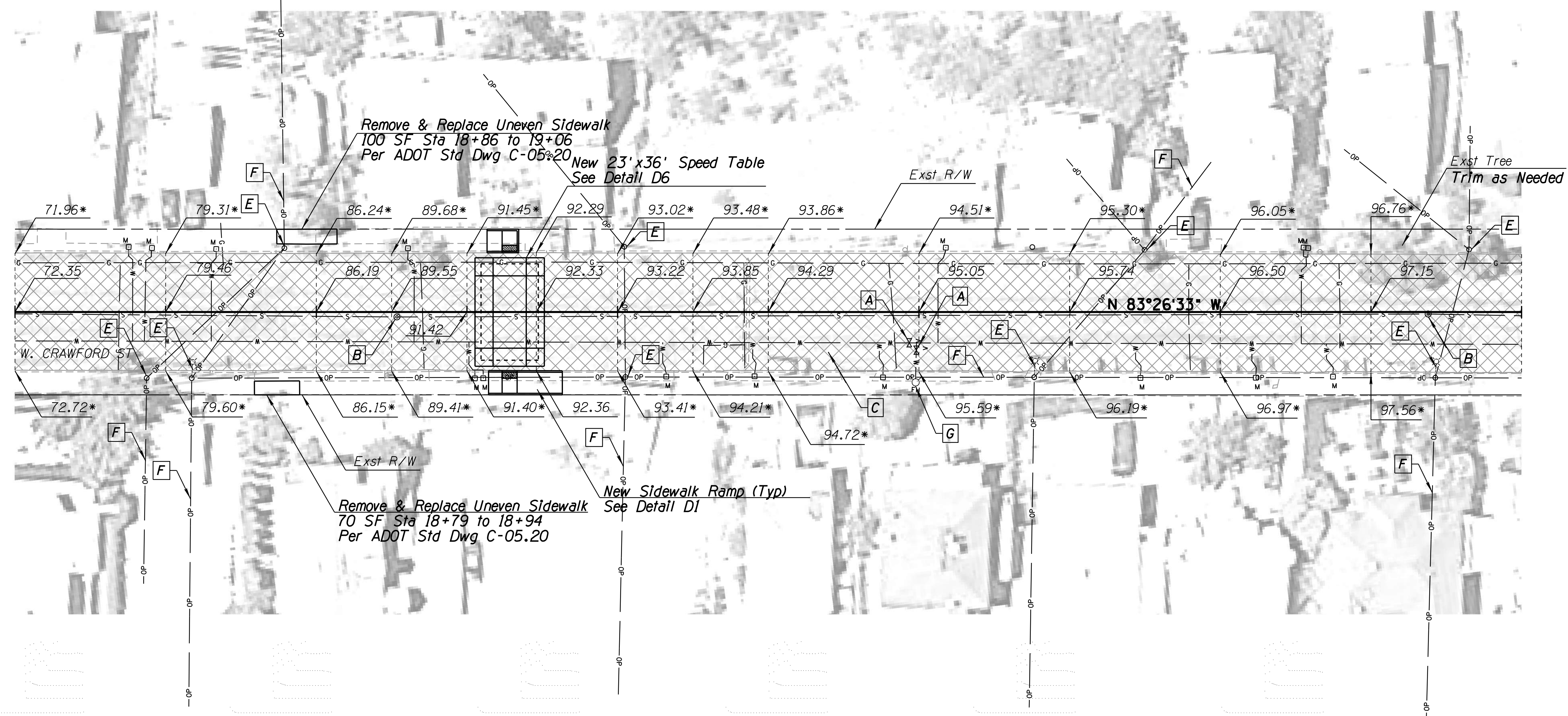
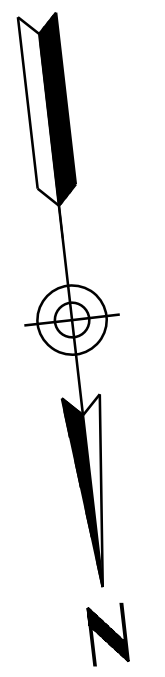
20+00

21+00

22+00

23+00

Elevations Shown Every 25'
Sta 19+00 to Sta 20+50



Note: Elevations Shown Every 50'.
* = Existing Elevation
All Elevations Are Base 3900 Unless Otherwise Noted

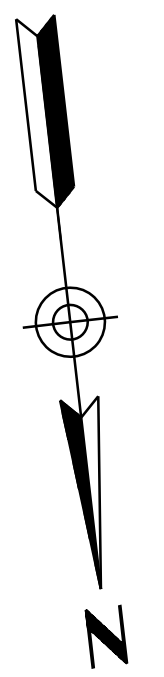
- [A] Adjust Water Valve Box and Cover to Finished Grade Per MAG Std DII 391
- [B] Adjust Sewer Manhole to Finished Grade Per MAG Std DII 422
- [C] Remove 2170 SY of Exst AC, Base Material, and Gutter
- [E] Exst Steet Light/Power Pole, Protect In Place
- [F] Exst Overhead Line, Protect In Place
- [G] Exst Fire Hydrant, Protect In Place

DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	RC		5/16		
CHECKED	SS		5/16		
PSOMAS <small>353 E. Wetmore Road, Suite 450 Tucson, AZ 85710 (520) 292-2300 (520) 292-1290 fax www.psomas.com</small>				STA 18+00 TO 23+00 PLAN SHEET	
ROUTE	LOCATION			SHEET P3 OF P5	
TRACS NO. SZ035 01C			NOG-0(20)1T		OF

SURVEY NO. FINISHED PLANS- REVISIONS- DATE- LOCATION- FINISHED PLANS- REVISIONS- DATE- LOCATION- FINISHED PLANS- REVISIONS- DATE-

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	11	23	

0000 SC NOG



23+00

24+00

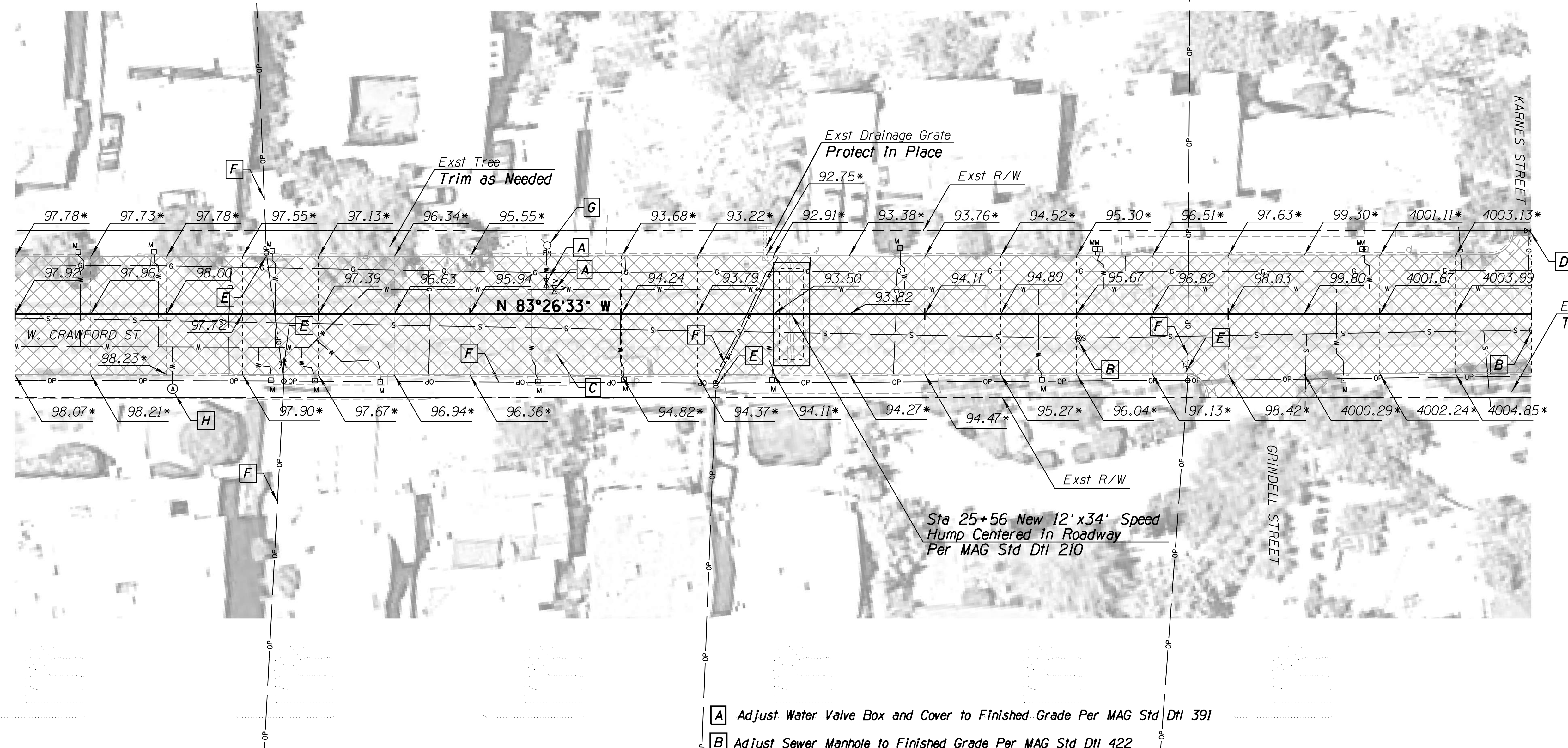
25+00

26+00

27+00

28+00

Elevations Shown Every 25'
Sta 23+00 to Sta 24+50
Sta 25+00 to Sta 28+00



- A** Adjust Water Valve Box and Cover to Finished Grade Per MAG Std Dtl 391
- B** Adjust Sewer Manhole to Finished Grade Per MAG Std Dtl 422
- C** Remove 2207 SY of Exst AC, Base Material, and Gutter
- D** Adjust Gas Valve Box and Cover to Finished Grade
- E** Exst Steel Light/Power Pole, Protect In Place
- F** Exst Overhead Line, Protect In Place
- G** Exst Fire Hydrant, Protect In Place
- H** Exst Water ARV, Protect In Place

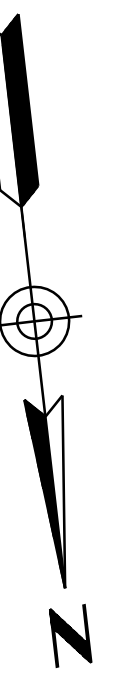
Note: Elevations Shown Every 50'.
*=Existing Elevation
All Elevations Are Base 3900 Unless Otherwise Noted

DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	RC		5/16		
CHECKED	SS		5/16		
PSOMAS <small>353 E. Wetmore Road, Suite 450 Tucson, AZ 85710 (520) 292-2300 (520) 292-1290 fax www.psomas.com</small>				STA 23+00 TO 28+00 PLAN SHEET	
ROUTE	LOCATION			SHEET P4 OF P5	
TRACS NO. SZ035 01C			CRAWFORD STREET: MCNAB DRIVE TO SONOITA AVE		NOG-0(20)1T
					OF

SURVEY NO. DATE FINISHED PLANS REVISIONS LOCATION DATE FINISHED PLANS REVISIONS LOCATION DATE FINISHED PLANS REVISIONS LOCATION

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	12	23	

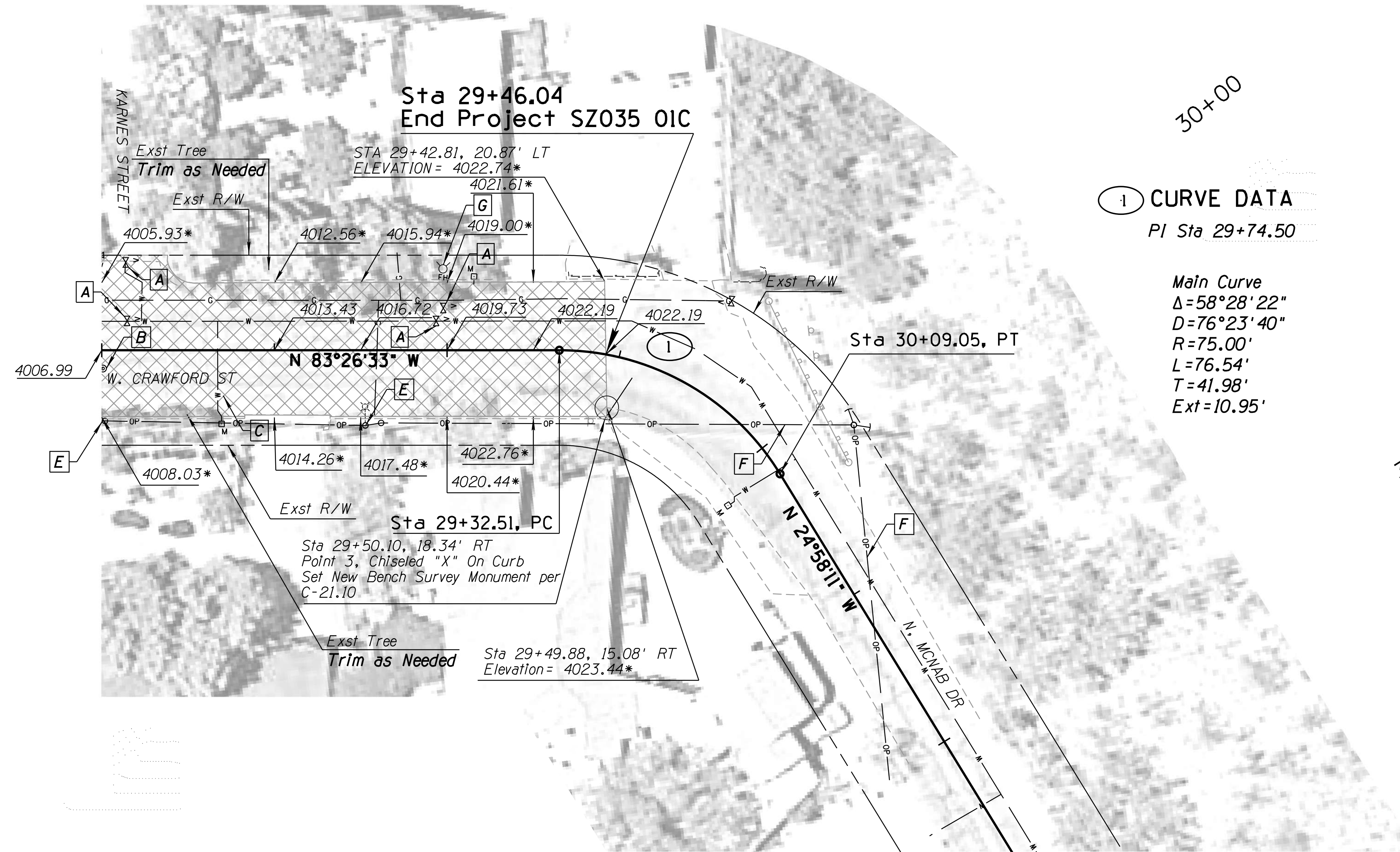
0000 SC NOG



28+00

29+00

Elevations Shown Every 25'
Sta 28+50 To Sta 29+25



1 CURVE DATA

PI Sta 29+74.50

Main Curve
 $\Delta = 58^{\circ}28'22''$
 $D = 76^{\circ}23'40''$
 $R = 75.00'$
 $L = 76.54'$
 $T = 41.98'$
 $Ext = 10.95'$

- A** Adjust Valve Box and Cover to Finished Grade Per MAG Std Dtl 391
- B** Adjust Manhole to Finished Grade Per MAG Std Dtl 422
- C** Remove 647 SY of Exst AC, Base Material, and Gutter
- E** Exst Steet Light/Power Pole, Protect In Place
- F** Exst Overhead Line, Protect In Place
- G** Exst Fire Hydrant, Protect In Place

Note: Elevations Shown Every 50'.
 *=Existing Elevation
 All Elevations Are Base 3900 Unless Otherwise Noted

DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	RC		5/16		
CHECKED	SS		5/16		
PSOMAS 353 E. Wetmore Road, Suite 450 Tucson, AZ 85710 (520) 292-2300 (520) 292-1290 fax www.psomas.com				STA 28+00 TO 31+00 PLAN SHEET	
ROUTE	LOCATION			SHEET P5 OF P5	
TRACS NO. SZ035 OIC				NOG-0(20)1T	
				OF	

SURVEY NO. DATE FINISHED PLANS REVISIONS LOCATION DATE FINISHED PLANS SURVEY NO. DATE FINISHED PLANS REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	13	23	

0000 SC NOG

TRAFFIC CONTROL NOTES:

1. ADJUSTMENTS TO THE DETAILS OF THESE TRAFFIC CONTROL PLANS AND REQUIREMENTS MAYBE NECESSARY DUE TO CONSTRUCTION ACTIVITIES, AS DIRECTED BY THE ENGINEER.
2. ALL EXISTING SIGNS IN CONFLICT WITH THE CONSTRUCTION SIGNS SHALL BE REMOVED, RELOCATED, OR COVERED IN PLACE, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL STORE AND REINSTALL ITEMS WHICH HAVE BEEN REMOVED OR RELOCATED IN A MANNER APPROVED BY THE ENGINEER, THE COST BEING CONSIDERED AS INCLUDED IN THE COST OF CONTRACT ITEMS.
3. THE RETRO-REFLECTIVE SHEETING ON ALL CONSTRUCTION SIGNS SHALL MEET CRITERIA ESTABLISHED IN SECTION 1007 OF THE SPECIFICATIONS.
4. ALL SHORT-TERM SIGNS MAY BE INSTALLED ON SPRING STANDS ONE FOOT ABOVE THE PAVEMENT.
5. FLAGS SHALL BE MOUNTED ON TOP OF ALL CONSTRUCTION SIGNS EXCEPT THE "END ROAD WORK THANK YOU" SIGN. TYPE A FLASHING WARNING LIGHTS SHALL BE REQUIRED ON ALL NIGHTTIME CONSTRUCTION SIGNS EXCEPT THE "END ROAD WORK THANK YOU" SIGN.
6. CHANNELING DEVICES SHALL BE PLACED 20 FEET O.C. BETWEEN THE TRAFFIC LANE AND THE WORK SPACE AND 40 FEET O.C. BETWEEN THE TRAFFIC LANE AND THE PARKING LANE.
7. THE CONTRACTOR MAY SUBSTITUTE TYPE I BARRICADES FOR TYPE II BARRICADES AS LONG AS THE REFLECTIVE AREA ON THE TOP PANEL OF THE TYPE I BARRICADES IS EQUIVALENT OR GREATER THAN THE REFLECTIVE AREA OF TYPE II BARRICADE.
8. CONSTRUCTION SIGNS SHALL NOT BE DISPLAYED TO TRAFFIC MORE THAN 24 HOURS PRIOR TO THE ACTUAL START OF CONSTRUCTION. THESE SIGNS MAY BE INSTALLED SOONER BUT THEY MUST BE COVERED OR TURNED AWAY FROM TRAFFIC. THE COST FOR COVERING OR TURNING THEM SHALL BE CONSIDERED PART OF THE SIGN INSTALLATION COST. NO FURTHER COMPENSATION WILL BE MADE. THESE SIGNS SHALL BE REMOVED WITHIN 24 HOURS AFTER THE COMPLETION OF CONSTRUCTION ACTIVITIES.
9. THE TRAFFIC CONTROL PLANS REPRESENT A SUGGESTED METHOD FOR TRAFFIC CONTROL DURING CONSTRUCTION. THE CONTRACTOR MAY PREPARE ANOTHER TRAFFIC CONTROL PLAN IN ACCORDANCE WITH SECTION 701 OF THE SPECIFICATIONS. ALL TRAFFIC CONTROL PLANS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER BEFORE BEGINNING CONSTRUCTION.
10. ALL CONSTRUCTION SIGNS SHALL HAVE BLACK LETTERS ON AN ORANGE BACKGROUND, EXCEPT AS OTHERWISE NOTED.
11. SPEED LIMIT SIGNING IS PRELIMINARY AND IS SUBJECT TO REVIEW AND CHANGE BY THE ENGINEER AS DICTATED BY FIELD CONDITIONS. CONSTRUCTIONS SIGNS SHALL NOT BE DISPLAYED TO TRAFFIC MORE THAN 24 HOURS PRIOR TO THE ACTUAL START OF CONSTRUCTION. THESE SIGNS MAY BE INSTALLED SOONER BUT THEY MUST BE COVERED OR TURNED AWAY FROM TRAFFIC. THE COST FOR COVERING OR TURNING THEM SHALL BE CONSIDERED PART OF THE SIGN INSTALLATION COST. NO FURTHER COMPENSATION WILL BE MADE. THESE SIGNS SHALL BE REMOVED WITHIN 24 HOURS AFTER THE COMPLETION OF THE CONSTRUCTION ACTIVITIES.
12. WHERE NO CLOSURE IS NECESSARY BUT WHERE THERE IS CONSTRUCTION ALONGSIDE A ROADWAY UNDER CONSTRUCTION, THE CONTRACTOR SHALL PLACE 48x48 INCH "ROAD WORK AHEAD" AND "SHOULDER WORK AHEAD" SIGNING AS DIRECTED BY THE ENGINEER TO ALERT THE PUBLIC TO THE CONSTRUCTION ACTIVITIES.
13. AN ADEQUATE NUMBER OF TYPE III BARRICADES SHALL BE PLACED ACROSS EACH ROADWAY TO BE CLOSED. A TYPE A FLASHING WARNING LIGHT SHALL BE MOUNTED ON EACH END OF EACH TYPE III BARRICADE.
14. ALL DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE.

DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	RC		5/16	
CHECKED	SS		5/16	
PSOMAS				TRAFFIC CONTROL GENERAL NOTES
<small>353 E. Wetmore Road, Suite 450 Tucson, AZ 85710 (520) 292-2300 (520) 292-1290 fax www.psomas.com</small>				
ROUTE	LOCATION			
	CRAWFORD STREET: MCNAB DRIVE TO SONOITA AVE			SHEET TC01 OF TC03
TRACS NO. SZ035 01C		NOG-0(20)1T		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	14	23	

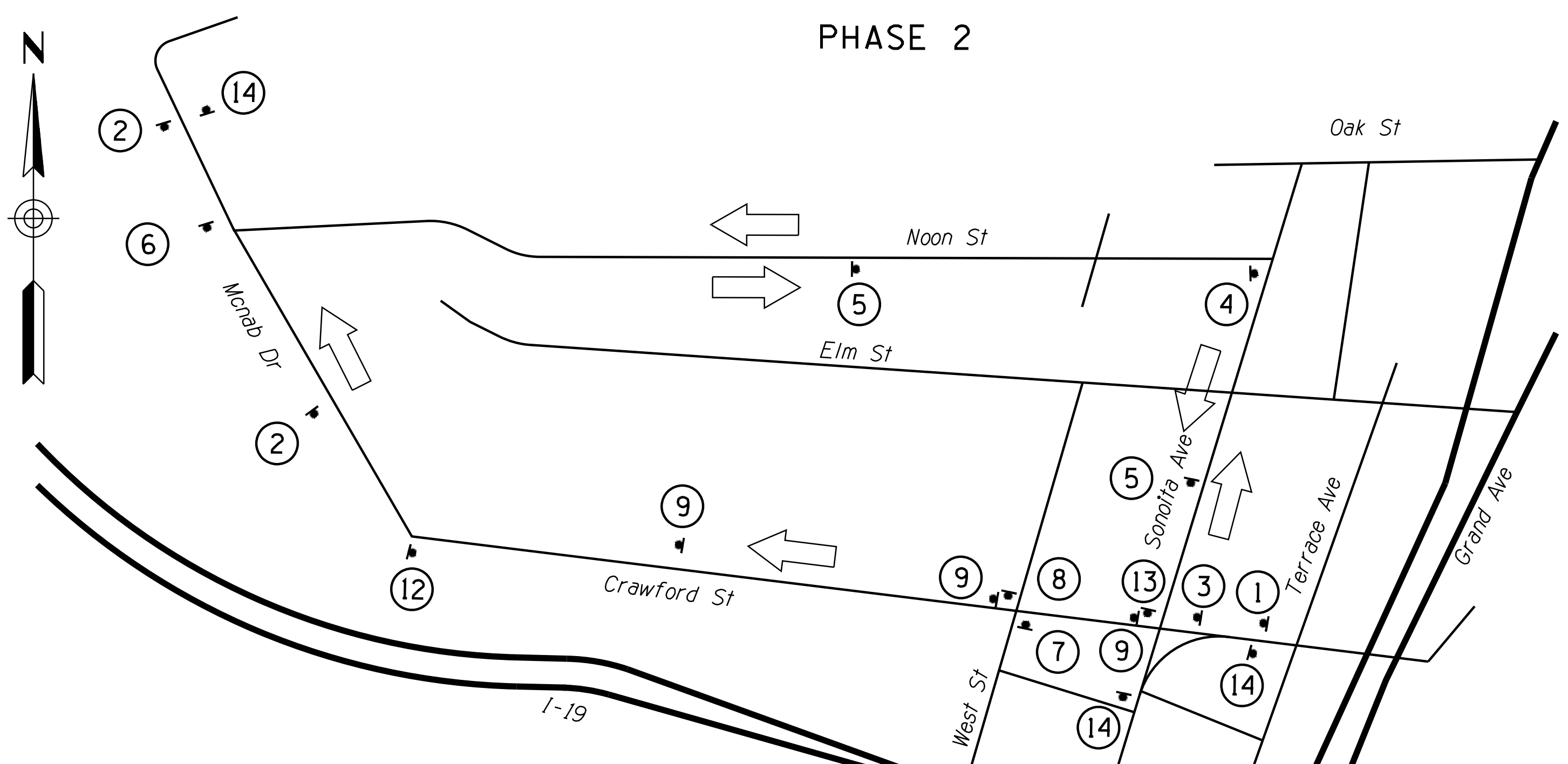
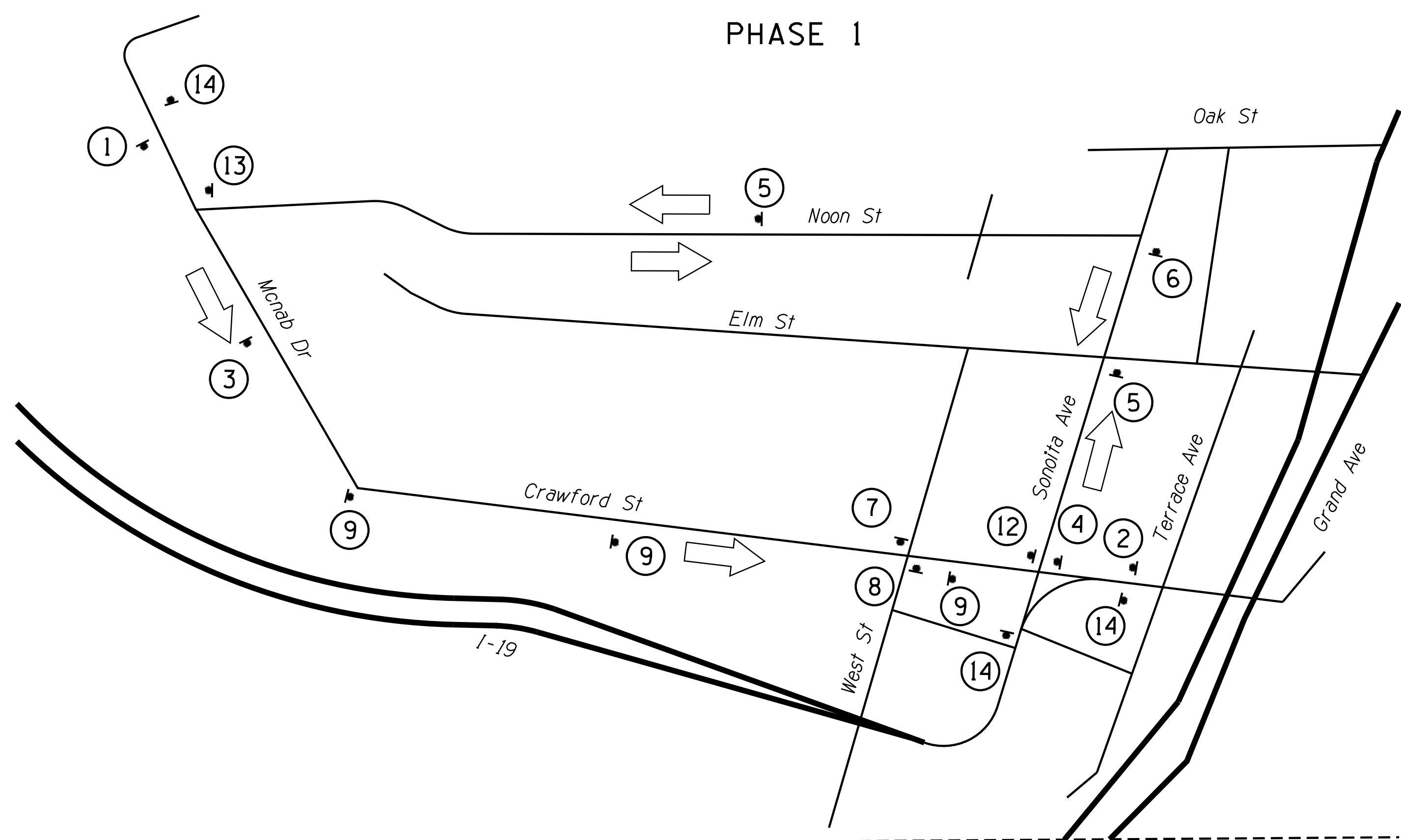
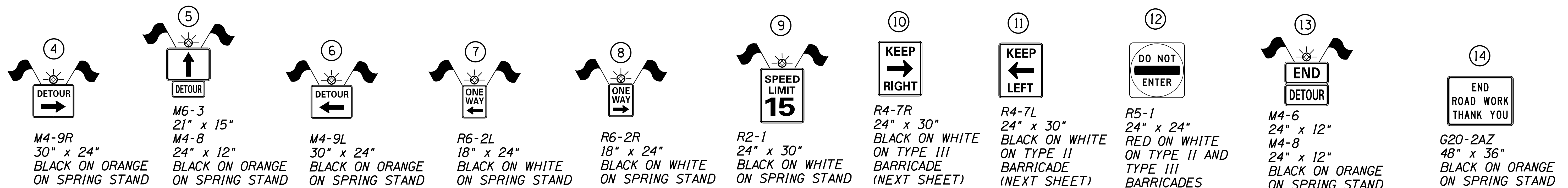
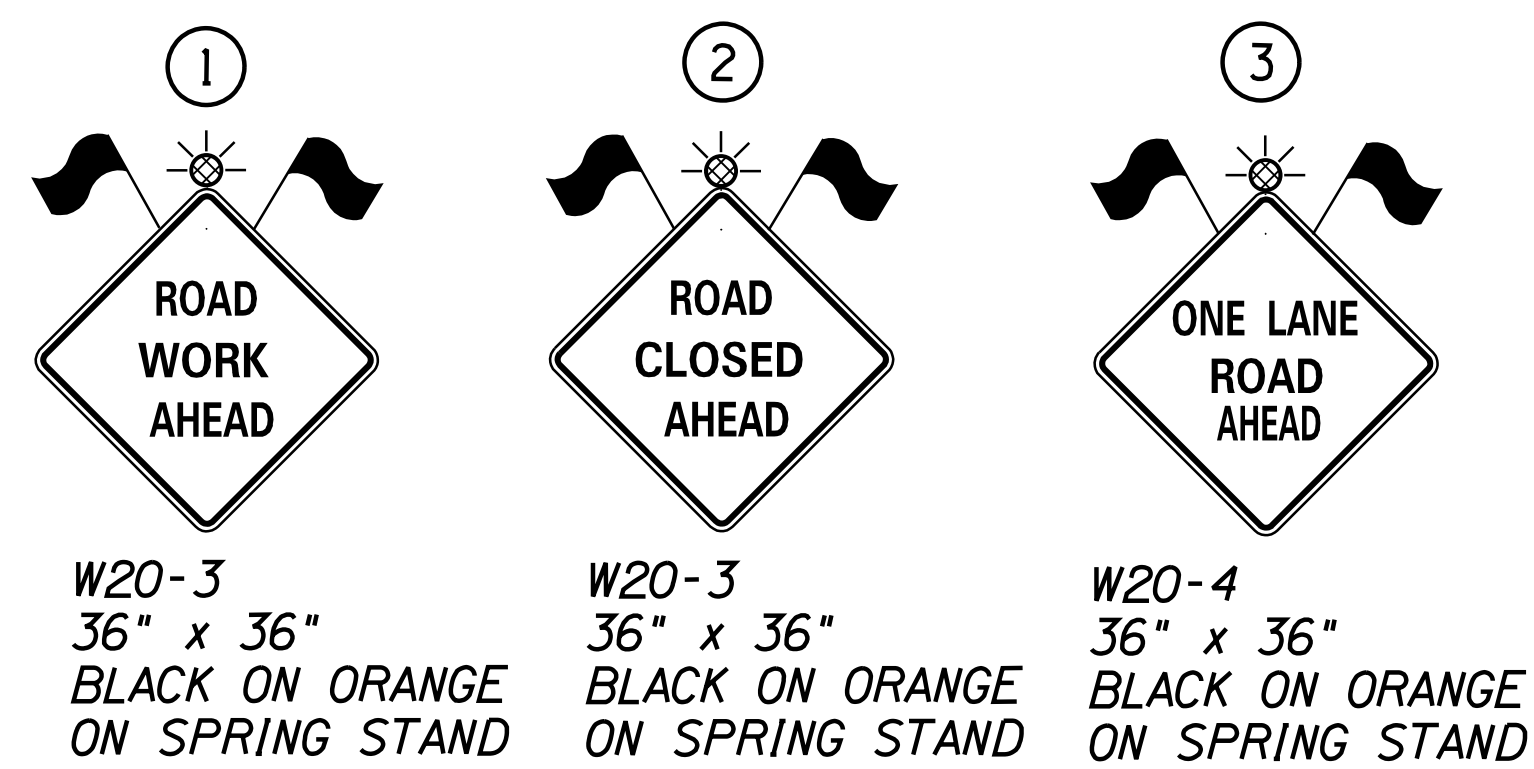
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NOTE:

THE TABLE INDICATES THE QUANTITY OF EACH ITEM MULTIPLIED BY THE ESTIMATED CALENDAR DAYS FOR EACH PHASE OR ACTIVITY.

APPROXIMATE TRAFFIC CONTROL QUANTITIES

BID ITEM NO.	ELEMENT OF WORK	UNIT	CRAWFORD ST CONSTRUCTION		TOTAL
			PHASE 1	PHASE 2	
	ESTIMATED DURATION (CALENDAR DAYS)		45	45	90
7015052	STRIPE OBLITERATION	L.F.	NA	NA	120
7016030	BARRICADE (TYPE II, VERTICAL PANEL)	EACH-DAY	6,750	6,750	13,500
7016031	BARRICADE (TYPE III, HIGH LEVEL FLAG TREE)	EACH-DAY	270	270	540
7016033	PORTABLE SIGN STAND (SPRING TYPE)	EACH-DAY	765	765	1,530
7016035	WARNING LIGHT (TYPE A)	EACH-DAY	7,785	7,785	15,570
7016051	TEMPORARY SIGN (LESS THAN 10 SQ. FT.)	EACH-DAY	1,080	1,080	2,160
7016052	TEMPORARY SIGN (AT LEAST 10 SQ. FT.)	EACH-DAY	90	90	180



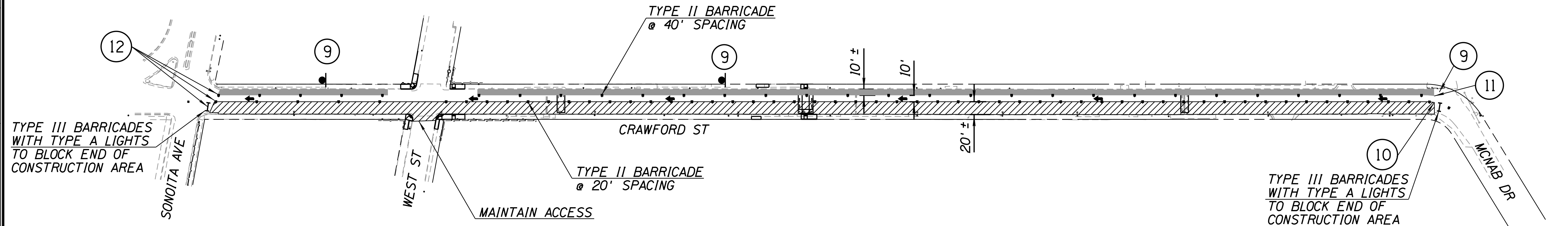
NOTE: ALL DISTANCES AND LOCATIONS ARE APPROXIMATE.

DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	RC		5/16	
CHECKED	SS		5/16	
PSOMAS				TRAFFIC CONTROL QUANTITIES & ADVANCED WARNING SIGNS
353 E. Wetmore Road, Suite 450 Tucson, AZ 85705 (520) 292-2300 (520) 292-1290 fax www.psomas.com				
ROUTE	LOCATION			SHEET TC02 OF TC03
	CRAWFORD STREET: MCNAB DRIVE TO SONOITA AVE			
TRACS NO. SZ035 01C		NOG-0(20)1T		OF

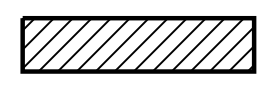


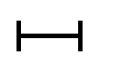

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	15	23	

0000 SC NOG

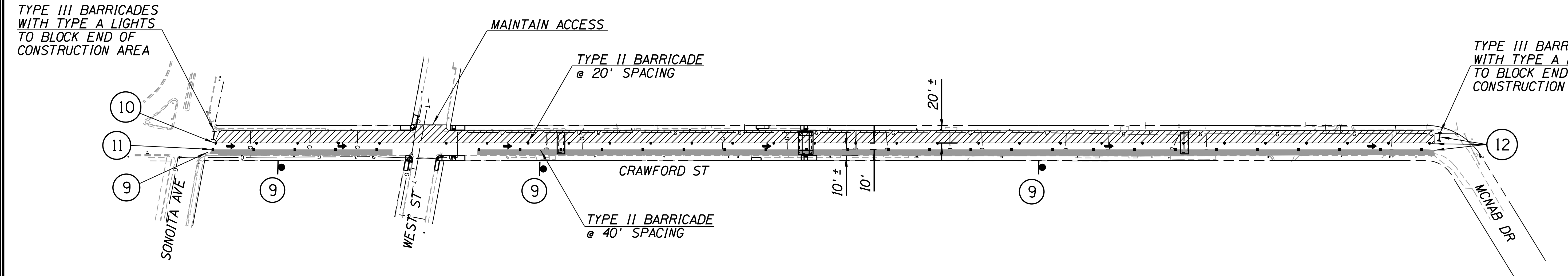
PHASE 1

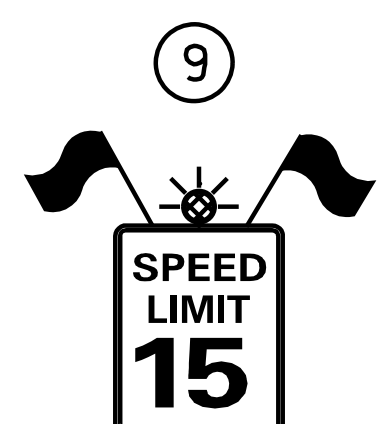



SYMBOL LEGEND:


-  CONSTRUCTION THIS PHASE
-  DIRECTION OF TRAVEL
-  ON STREET PARKING
-  TRAFFIC CONTROL (TYPE III BARRICADE)
-  TRAFFIC CONTROL (TYPE II BARRICADE)

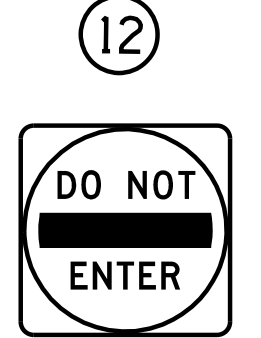
PHASE 2



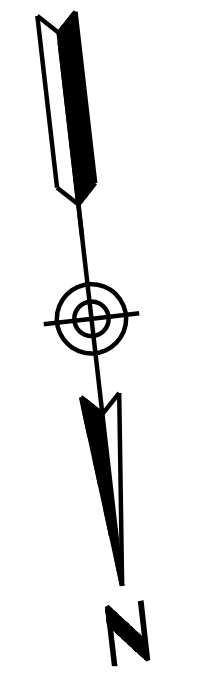
- 

R2-1
24" x 30"
BLACK ON WHITE
ON SPRING STAND
- 


R4-7R
24" x 30"
BLACK ON WHITE
ON TYPE III
BARRICADE
- 

R4-7L
24" x 30"
BLACK ON WHITE
ON TYPE II
BARRICADE
- 

R11-2
24" x 24"
RED ON WHITE
ON TYPE II
AND TYPE III
BARRICADES



SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE FINISHED PLANS SURVEY NO.

DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	RC		5/16		
CHECKED	SS		5/16		
PSOMAS				TRAFFIC CONTROL PLANS	
ROUTE		LOCATION			
		CRAWFORD STREET: MCNAB DRIVE TO SONOITA AVE			
TRACS NO. SZ035 01C			NOG-0(20)1T		SHEET TC03 OF TC03

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	16	23	

0000 SC NOG

PAVEMENT MARKING NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE STRIPING IS OFFSET ONE FOOT CLEAR OF THE CONSTRUCTION JOINT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PERMANENT PAVEMENT MARKINGS ON THE FINAL SURFACE COURSE FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE STRIPED.
- AT THE COMPLETION OF THE FINAL PAVEMENT SURFACE EACH DAY, LANE LINES SHALL BE STRIPED WITH ONE APPLICATION OF STANDARD REFLECTORIZED TRAFFIC PAINT AT THE LOCATIONS OF THE PERMANENT STRIPING. THE PAINT SHALL HAVE A MINIMUM THICKNESS OF 15 MILS WET.
- THE FINAL STRIPING SHALL BE 90 MIL (0.090 INCH) THICK ALKYD EXTRUDED THERMOPLASTIC REFLECTORIZED STRIPING PLACED OVER THE INITIAL STRIPING BETWEEN 30 AND 60 CALENDAR DAYS AFTER THE COMPLETION OF THE FINAL PAVEMENT SURFACE, AS DIRECTED BY THE ENGINEER. ALL OTHER MARKINGS SHALL BE APPLIED AT THE SAME TIME.
- EXISTING OR TEMPORARY PAVEMENT MARKINGS THAT CONFLICT WITH NEWER PAVEMENT MARKINGS SHALL BE OBLITERATED. WHEN STRIPE OBLITERATION IS NECESSARY, IT SHALL BE ACCOMPLISHED BY APPROVED METHODS, AS INDICATED IN THE STANDARD SPECIFICATIONS. PAINTING OVER STRIPING, REMOVAL OF PAVEMENT, AND OVERLAYING PAVEMENT DO NOT CONSTITUTE STRIPE OBLITERATION.
- UNLESS OTHERWISE NOTED ON THE PROJECT PLANS, THE CONTRACTOR SHALL PRESERVE ALL ROADWAY SIGNS, SIGN SUPPORTS, OBJECT MARKERS, AND MILEPOST MARKERS. THE CONTRACTOR SHALL REPLACE ANY SIGNS, SIGN SUPPORTS, AND MARKERS DAMAGED AS A RESULT OF THE CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.
- THE DIMENSIONS SHOWN TO THE PAVEMENT STRIPING ARE TO THE CENTER OF THE STRIPING OR MIDDLE OF DOUBLE STRIPING.
- THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE ENGINEER, BY SWEEPING AND AIR-JET BLOWING, IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE ROADWAY SURFACE SHALL BE DRY AND THE AIR AND PAVEMENT TEMPERATURES SHALL NOT BE LESS THAN 55° FOR THE PLACEMENT OF THERMOPLASTIC STRIPING.
- THE CONTRACTOR SHALL COORDINATE THE PLACEMENT OF PAVEMENT MARKINGS WITH JUAN GUERRA, CITY OF NOGALES ENGINEER (520-287-6571) PRIOR TO INSTALLATION.
- ALL RAISED PAVEMENT MARKERS SHALL HAVE AN ABRASION-RESISTANT COATING ON THE FACE OF THE PRISMATIC REFLECTORS AND SHALL CONFORM TO THE DETAILS OF STANDARD DRAWING M-19. THEY SHALL BE INSTALLED WITH A BITUMINOUS ADHESIVE THAT IS ON THE ADOT APPROVED PRODUCTS LIST.
- ALL RAISED PAVEMENT MARKERS SHALL BE INSTALLED SO THAT THE REFLECTIVE FACES OF MARKERS ARE FACING THE DIRECTION OF TRAFFIC AND ARE PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
- THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS AND DETAILS WHEN INSTALLING PAVEMENT MARKINGS.

SIGNING NOTES:

- ALL SIGNS SHALL BE IN COMPLIANCE WITH THE CURRENT EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009 MUTCD), THE ADOT SIGNING AND MARKING STANDARD DRAWINGS (2014 AND UPDATES), AND THE TRAFFIC ENGINEERING MANUAL OF APPROVED SIGNS (MOAS).
- THE SIGN LOCATION AND THE POST LENGTH ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE SIGN LOCATIONS AND ACTUAL POST LENGTHS WITH THE ENGINEER PRIOR TO CONSTRUCTING THE FOUNDATIONS FOR THE SIGN SUPPORTS. SIGN POST SELECTION SHALL BE PER ADOT SIGNING AND MARKING STANDARD S-3.
- THE BOTTOM OF EACH SIGN SHALL BE AT LEAST 7 FEET ABOVE THE NEAREST EDGE OF PAVEMENT AND AT LEAST 7 FEET ABOVE THE GROUND UNDER THE SIGN.
- OFFSETS FOR ALL SIGNS SHALL BE MEASURED FROM THE EDGE OF THE ROADWAY TO THE NEAREST EDGE OF THE SIGN.
- MATERIAL AND COATINGS OF BOLTS, NUTS AND WASHERS SHALL BE PER STANDARD SPECIFICATION 607-2.03.
- BOLTS SHALL NOT BE PAINTED.
- THE CONTRACTOR SHALL USE ONLY STEEL WASHERS, NOT NYLON WASHERS, BETWEEN EACH BOLT HEAD AND THE FACE OF THE SIGN PANEL.
- SHOP DRAWINGS WILL BE REQUIRED FOR ALL GUIDE SIGNS.
- THE ENGINEER MAY MODIFY THE SIGNING PLANS.
- SIGNS MAY BE MODIFIED AND LOCATIONS ADJUSTED TO FIT CONDITIONS AS DIRECTED BY THE ADOT ENGINEER.
- THE CONTRACTOR SHALL REMOVE EXISTING SIGNING WHERE INDICATED.
- THE CONTRACTOR SHALL INVENTORY ALL SIGNS TO BE REMOVED AND REPLACED OR COVERED, AND NOTE DAMAGED SIGNS TO THE ENGINEER AT TIME OF COVERING OR REMOVAL. ALL SIGNS DAMAGED BY COVERING OR REMOVAL SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEPARTMENT.

APPROXIMATE PAVEMENT MARKING QUANTITIES

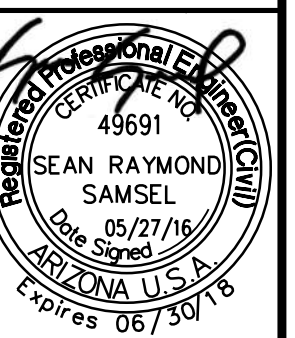
DESCRIPTION	ITEM NO.	UNIT	ACTUAL STRIPE LENGTH	QUANTITIES	
Standard ReflectORIZED Traffic Paint	White	7080001	L.F.	500	* 1,575
	Yellow	7080011	L.F.	4,000	* 4,000
Extruded Thermoplastic Pavement Marking	0.090" Yellow	7040006	L.F.	4,000	* 4,000
Thermoplastic Pavement Marking	0.090" White (Transverse)	7040072	L.F.	500	* 1,575
Raised Pavement Markers	Type D	7060015	Each	N/A	58
Curb Paint	Red	9240111	L.F.	N/A	103

* Pavement marking quantities reflect 4" equivalents.

APPROXIMATE SIGN QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
2020155	REMOVE (SIGN PANELS, FOUNDATION, AND POST ASSEMBLY)	EACH	11
6070038	SLIP BASE (2 1/2T)	EACH	3
6070054	SIGN POST (PERFORATED) (2S)	L.F.T.	44
6070055	SIGN POST (PERFORATED) (2 1/2S)	L.F.T.	147
6070057	SIGN POST (PERFORATED) (2 1/2T)	L.F.T.	43
6070060	FOUNDATION FOR SIGN POST (CONCRETE)	EACH	20
6080005	WARNING, MARKER, OR REGULATORY SIGN PANEL	SQ.F.T.	131

DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	RC		5/16	
CHECKED	SS		5/16	
PSOMAS <small>353 E. Wetmore Road, Suite 450 Tucson, AZ 85710 (520) 292-2300 (520) 292-1290 fax www.psomas.com</small>				SIGNING AND STRIPING GENERAL NOTES
ROUTE	LOCATION			
CRAWFORD STREET: MCNAB DRIVE TO SONOITA AVE				SHEET 551 OF 556
TRACS NO. SZ035 01C		NOG-0(20)1T		
				OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	17	23	

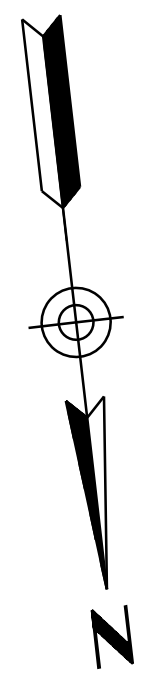
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10+00

11+00

12+00

13+00



Sta 10+00.00, Point 1
3" ADOT Brass Disk In Hand Well

Sta 10+40.75
Begin Paying
Project SZ035 OIC

Sta 12+18, 21' Lt
Exst R7-8 12"x18"
To Remain

Sta 10+52, 22' Lt
Remove exst RI-1
and U-channel post
Install new RI-1 (6.3 SF) on
new 2 1/2S post (11 LF)
with new foundation



Exst R/W



EP

N 83°26'33" W

W CRAWFORD ST

4" double yellow
on roadway &
Type D RPMs @ 40'

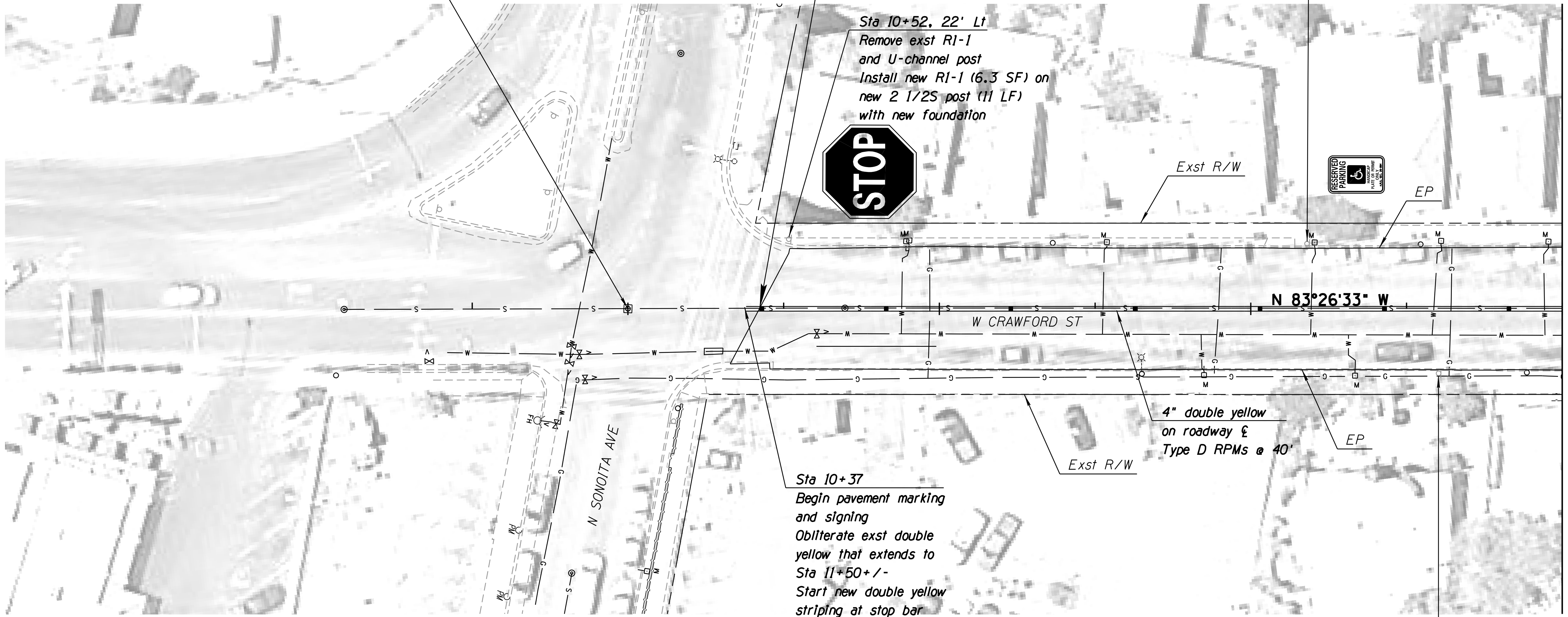
EP

Exst R/W

Sta 10+37
Begin pavement marking
and signing
Obliterate exst double
yellow that extends to
Sta 11+50+/-
Start new double yellow
striping at stop bar

Sta 12+60, 21 Rt
Exst sign
Freight Loading
and Unloading Only
To Remain

Match Line STA 13+00
See Sheet SS3



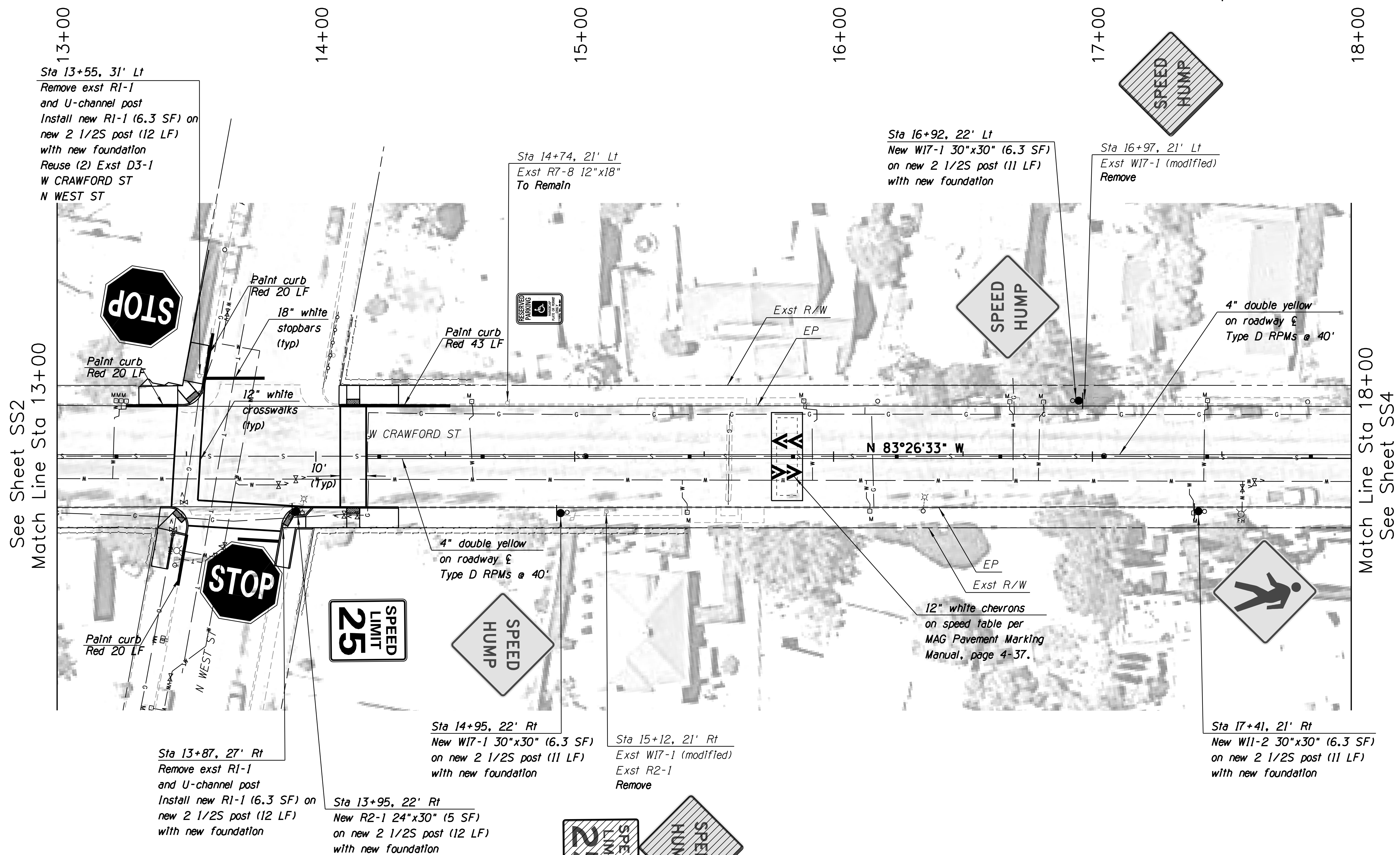
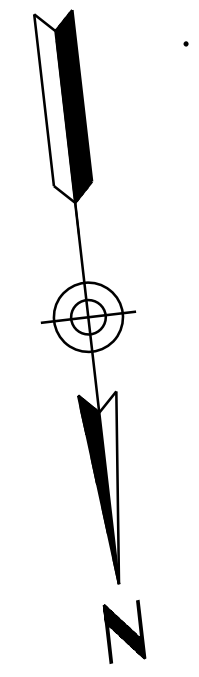
NOTE: All post lengths are approximate. See Signing Notes

DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	RC		5/16		
CHECKED	SS		5/16		
PSOMAS <small>333 E. Wetmore Road, Suite 450 Tucson, AZ 85705 (520) 292-2300 (520) 292-1290 fax www.psomas.com</small>				STA 9+00 TO 13+00 SIGNING AND STRIPING PLAN	
ROUTE	LOCATION			SHEET SS2 OF SS6	
TRACS NO. SZ035 OIC			NOG-0(20)1T		OF

SURVEY NO. FINISHED PLANS- REVISIONS- LOCATION- DATE- FINISHED PLANS- REVISIONS- LOCATION- DATE- SURVEY NO.

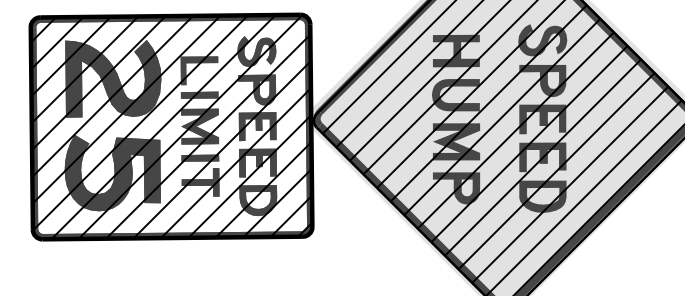
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	18	23	

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See Sheet SS2
Match Line Sta 13+00

Match Line Sta 18+00
See Sheet SS4



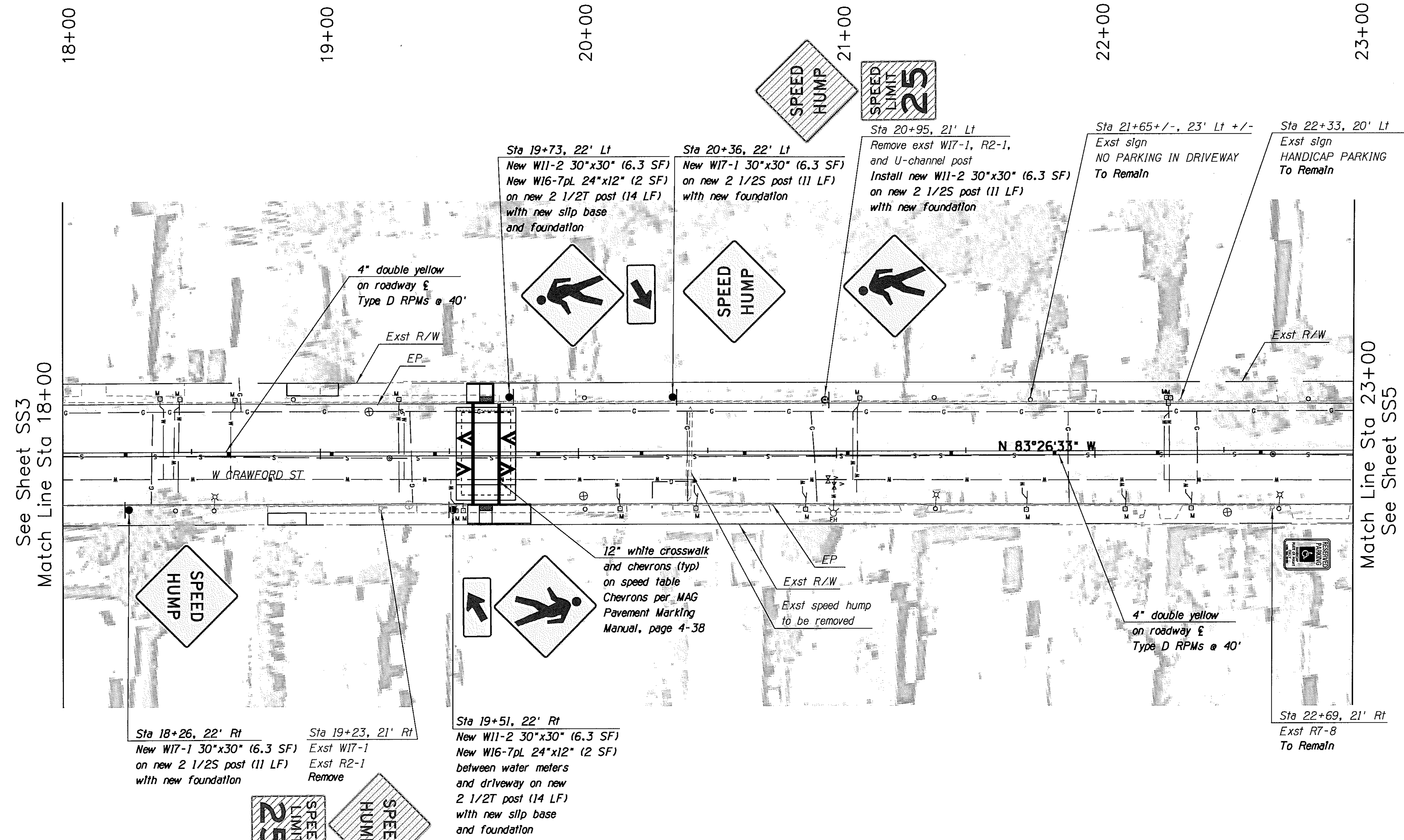
NOTE: All post lengths are approximate. See Signing Notes

DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES STA 13+00 TO 18+00 SIGNING AND STRIPING	
DRAWN	RC		5/16		
CHECKED	SS		5/16		
			5/16		
PSOMAS					
353 E. Wetmore Road, Suite 450 Tucson, AZ 85705 (520) 292-2300 (520) 292-1290 fax www.psomas.com					
ROUTE	LOCATION			SHEET	
	CRAWFORD STREET: MCNAB DRIVE TO SONOITA AVE			SS3 OF SS6	
TRACS NO. SZ035 01C				NOG-0(20)1T	OF

SURVEY NO. _____ DATE _____ REVISIONS- _____ FINISHED PLANS- _____ LOCATION- _____ DATE _____ REVISIONS- _____ FINISHED PLANS- _____

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	19	23	

0000 SC NOG



See Sheet SS3
Match Line Sta 18+00

Match Line Sta 23+00
See Sheet SS5

Sta 18+26, 22' Rt
New W17-1 30"x30" (6.3 SF)
on new 2 1/2S post (11 LF)
with new foundation

Sta 19+23, 21' Rt
Exst W17-1
Exst R2-1
Remove

Sta 19+51, 22' Rt
New W11-2 30"x30" (6.3 SF)
New W16-7pL 24"x12" (2 SF)
between water meters
and driveway on new
2 1/2T post (14 LF)
with new slip base
and foundation

Sta 19+73, 22' Lt
New W11-2 30"x30" (6.3 SF)
New W16-7pL 24"x12" (2 SF)
on new 2 1/2T post (14 LF)
with new slip base
and foundation

Sta 20+36, 22' Lt
New W17-1 30"x30" (6.3 SF)
on new 2 1/2S post (11 LF)
with new foundation

Sta 20+95, 21' Lt
Remove exst W17-1, R2-1,
and U-channel post
Install new W11-2 30"x30" (6.3 SF)
on new 2 1/2S post (11 LF)
with new foundation

Sta 21+65+/-, 23' Lt +/-
Exst sign
NO PARKING IN DRIVEWAY
To Remain

Sta 22+33, 20' Lt
Exst sign
HANDICAP PARKING
To Remain

Sta 22+69, 21' Rt
Exst R7-8
To Remain

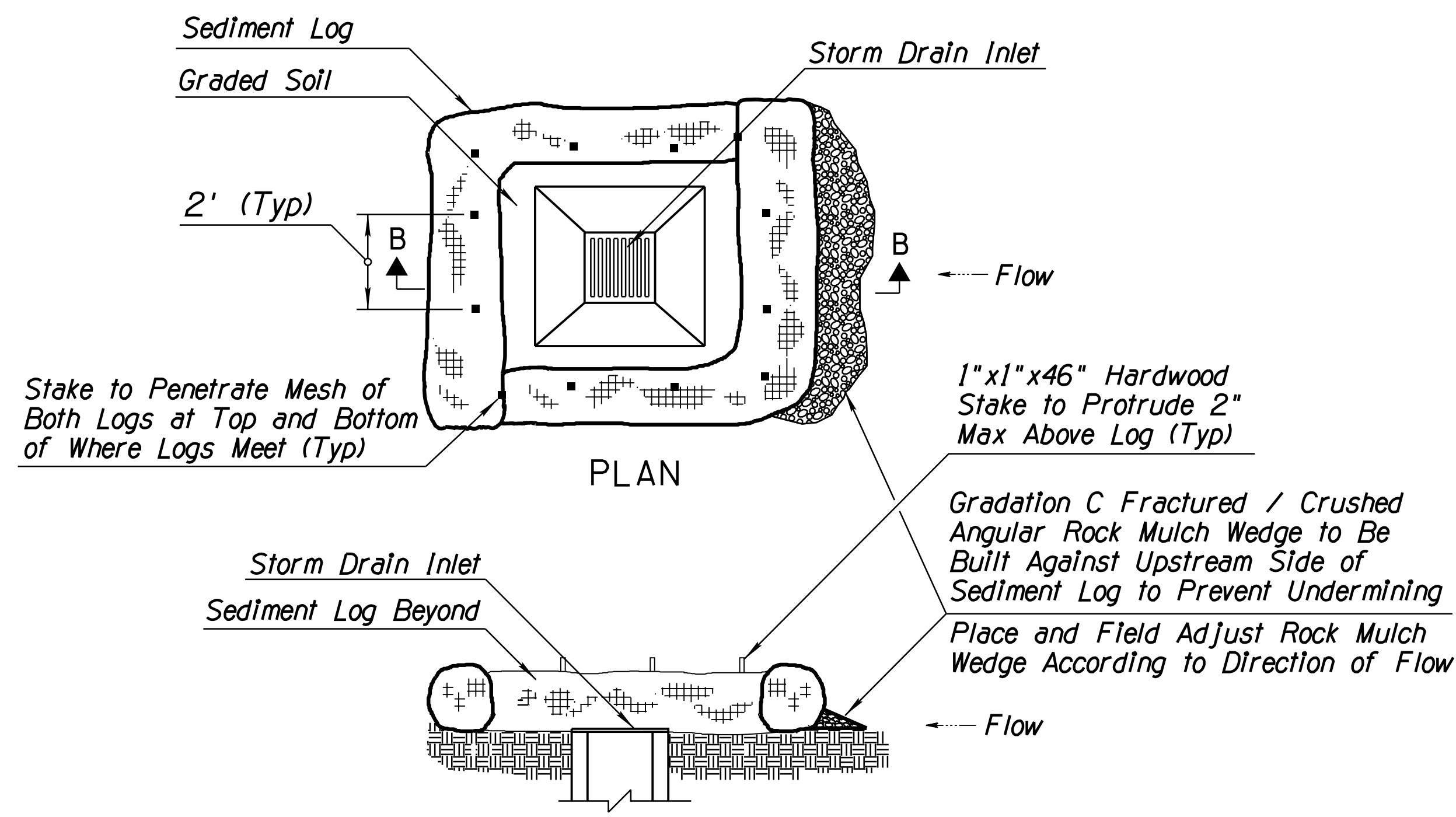
NOTE: All post lengths are approximate. See Signing Notes

DESIGN	RC	RC	5/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	RC		5/16		
CHECKED	SS	SS	5/16		
PSOMAS				STA 18+00 TO 23+00 SIGNING AND STRIPING PLAN	
ROUTE	CRAWFORD STREET; MCNAB DRIVE TO SONOITA AVE				
TRACS NO.	SZ035 OIC		NOG-0(20)1T		SHEET SS4 OF SS6

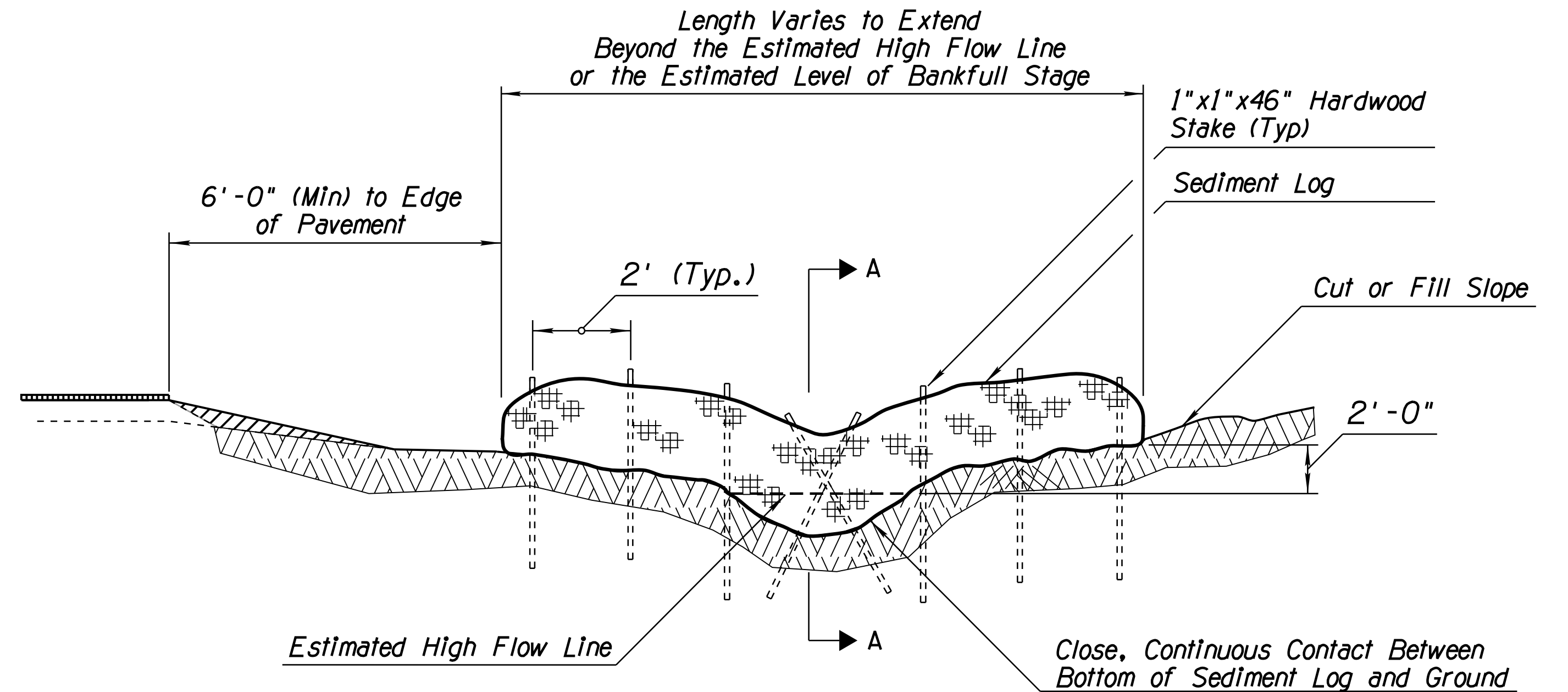
SURVEY NO. FINISHED PLANS- LOCATION- DATE- REVISIONS- FINISHED PLANS- LOCATION- DATE- SURVEY NO.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	22	23	

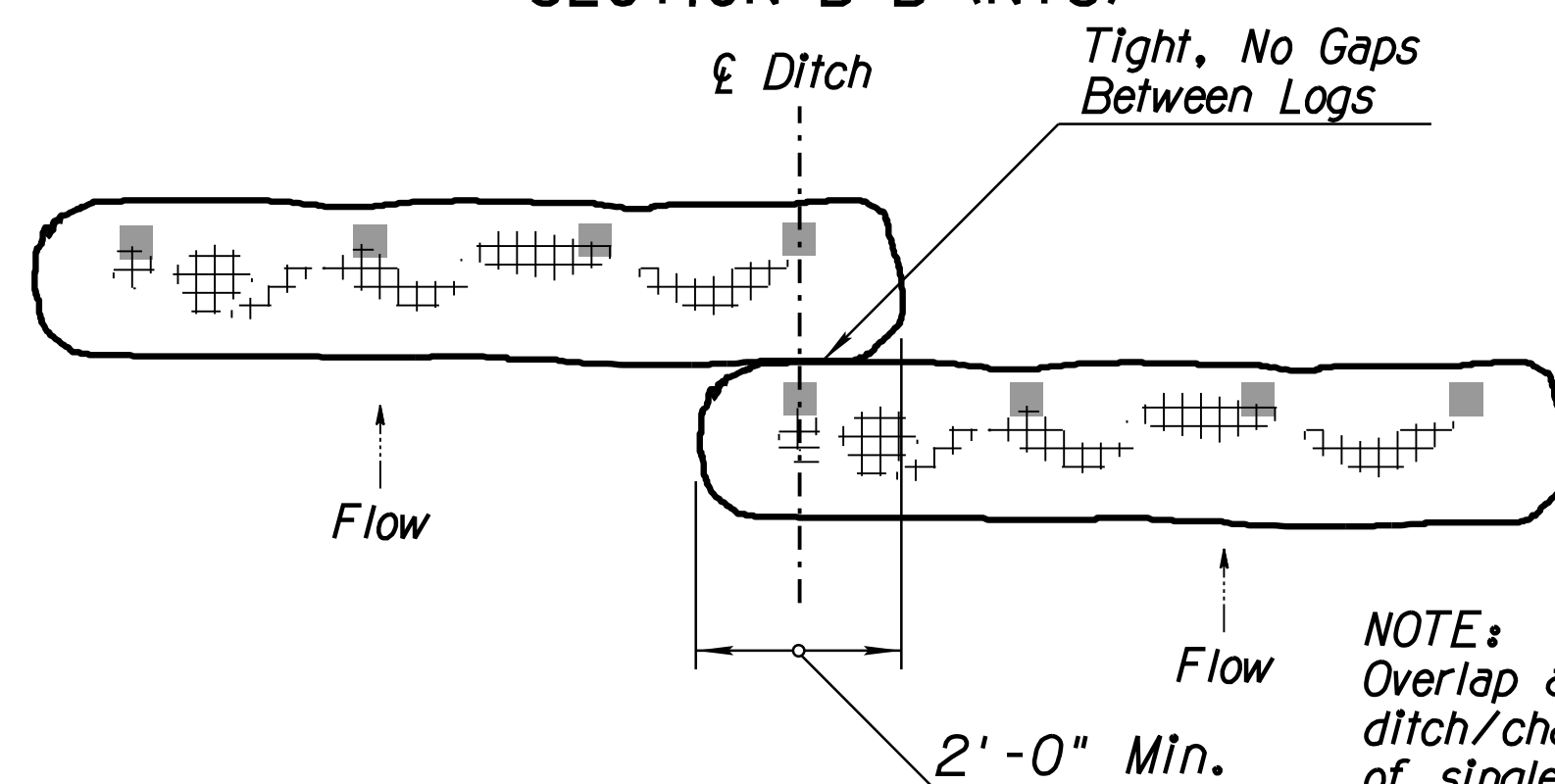
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SEDIMENT LOG AT STORM DRAIN SECTION B-B (NTS)



SEDIMENT LOG IN DITCH/CHANNEL SECTIONAL ELEVATION (NTS)

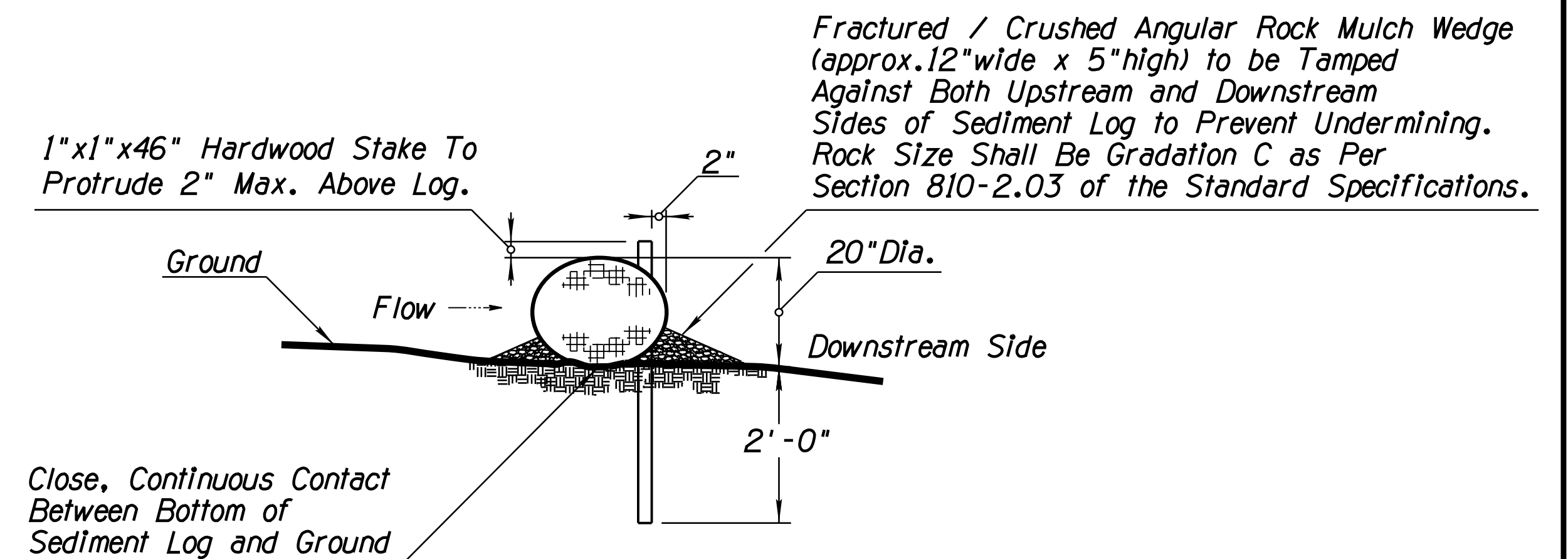


TYPICAL OVERLAP PLAN (NTS)

NOTE: Overlap applies to situations where ditch/channel is wider than length of single Sediment Log. Two or multiple Sediment Logs may be necessary.

NOTES:

- Sediment Logs shall not be installed in the urban freeway medians, nor where cable barrier systems are employed.
- Locate Sediment Logs as indicated in plans, SWPPP or as directed by the Engineer.
- Select, install and maintain Logs per manufacturers' specifications and good engineering practices.
- Lay Sediment Log across prepared roadside ditch or channel. Trenching or burial of Sediment Logs is not required. The close, continuous contact between the bottom of the Log and the ground is mandatory. The Logs shall be installed in the roadside ditch, swale or channel bottom perpendicular to the flow of water as shown on detail this sheet.
- Stake Log as shown. Stakes shall be placed through downstream side only as shown.
- DO NOT drive stakes through center of the Log. Stakes must be driven into the ground as shown.
- Ensure that no gaps exist between soil and bottom of Sediment Log. Repair any rills or undercuts promptly.
- Placement of Sediment Logs shall be evaluated by the Engineer in rocky soil conditions.
- Remove Sediment Log BMPs within the ditches/channels and around the storm drain inlets as per the direction of the Engineer or as soon as practicable upon stabilization of the construction disturbed area.
- Dispose of Sediment Logs and trapped sediment material and fill trench created by Sediment Log.
- The installation and maintenance of Sediment Log BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities. Sediment Logs shall be installed and maintained to carry the stormwater of at least 2-year, 24-hour events.
- Make field adjustments and corrections of Sediment Log BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
- Rock mulch/riprap may be required for channel/ditch lining or rock check dams for longitudinal ditch slopes that exceed 5% and/or for soil conditions not suitable for Log installation.
- The Sediment Log BMP's pay/bid item shall include all materials used for this BMP: all ground preparation, furnishing, installing, maintenance, final removal, and disposal, as well as returning the area to an acceptable condition as approved by the Engineer.
- Refer to Standard Specification Section 810-2.06(B) for Sediment Log material specifications.
- Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.
- Construct Rock Wedge with angular-shaped Gradation C Rock Mulch as defined in Section 810-2.03 of the Standard Specifications and these special provisions. Natural river-run materials such as rounded river rocks/cobblestones and pebbles are NOT acceptable.

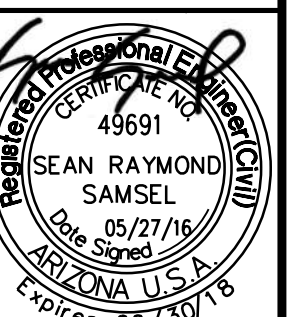


SECTION A-A (NTS)

DETAIL ES1

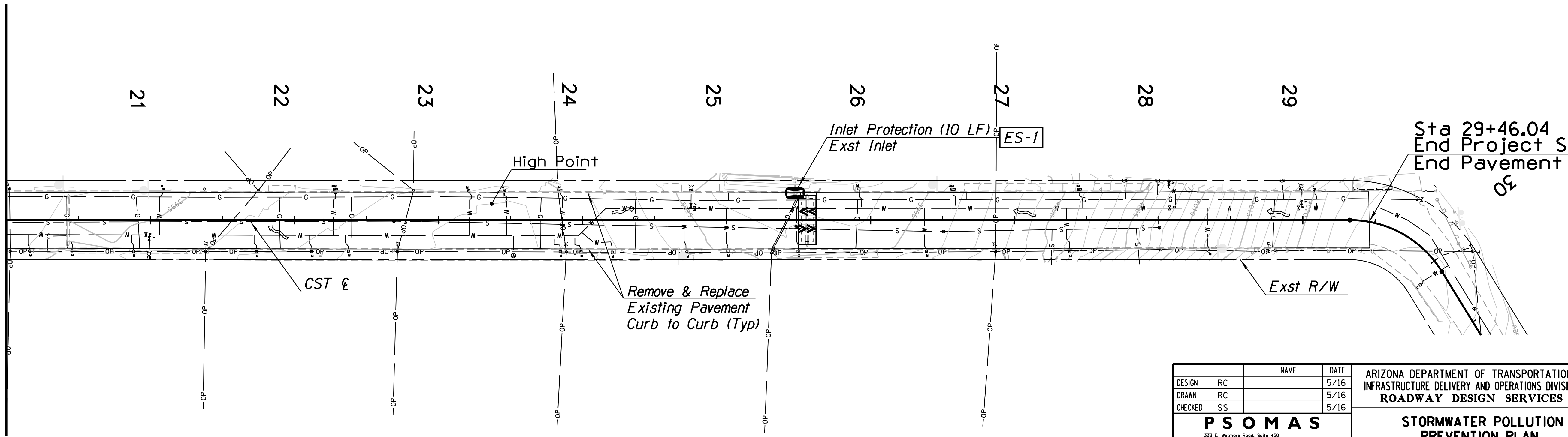
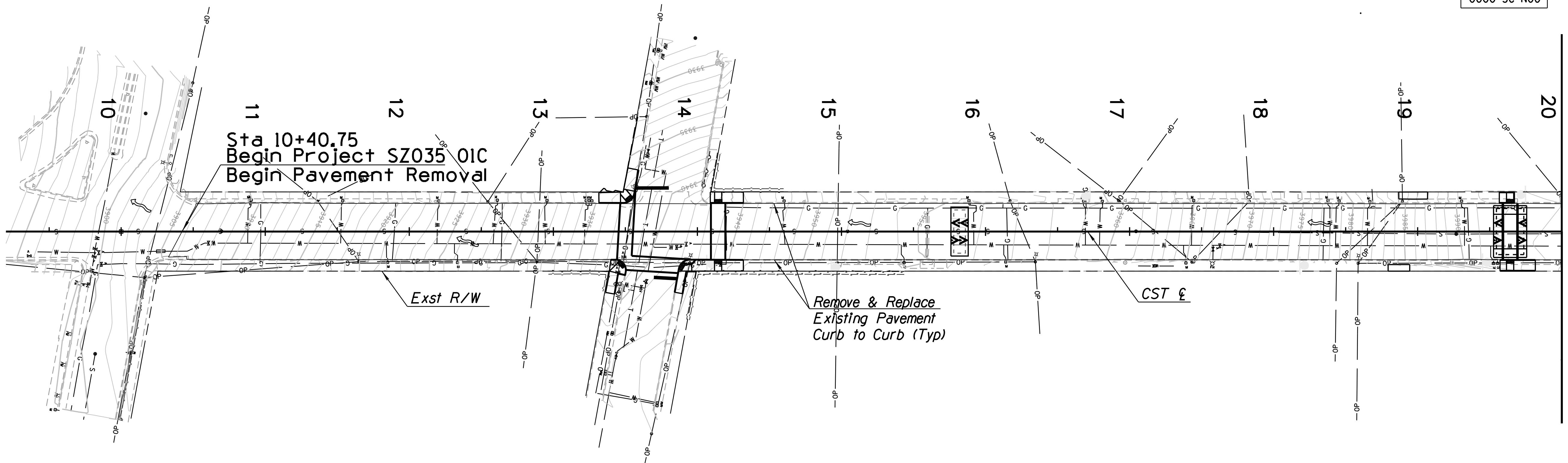
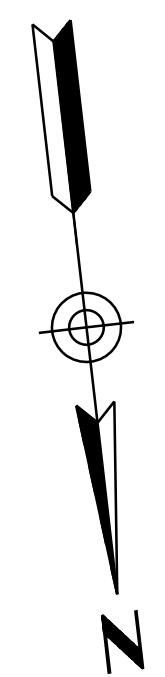
SEDIMENT LOG

DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	RC		5/16	PSOMAS 353 E. Wetmore Road, Suite 450 Tucson, AZ 85705 (520) 292-2300 (520) 292-1290 fax www.psomas.com
CHECKED	SS		5/16	
			5/16	
ROUTE	LOCATION	CRAWFORD STREET: MCNAB DRIVE TO SONOITA AVE		STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS
TRACS NO. SZ035 01C			NOG-0(20)1T	SHEET SW1 OF SW2



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	NOG-0(20)1T	23	23	

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SURVEY NO. FINISHED PLANS LOCATION DATE REVISIONS FINISHED PLANS SURVEY NO. LOCATION DATE REVISIONS FINISHED PLANS SURVEY NO. LOCATION DATE

DESIGN	RC	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	RC		5/16		
CHECKED	SS		5/16		
PSOMAS				STORMWATER POLLUTION PREVENTION PLAN	
ROUTE	LOCATION			SHEET SW2 OF SW2	
	CRAWFORD STREET: MCNAB DRIVE TO SONOITA AVE				
TRACS NO. SZ035 01C			NOG-0(20)1T		OF