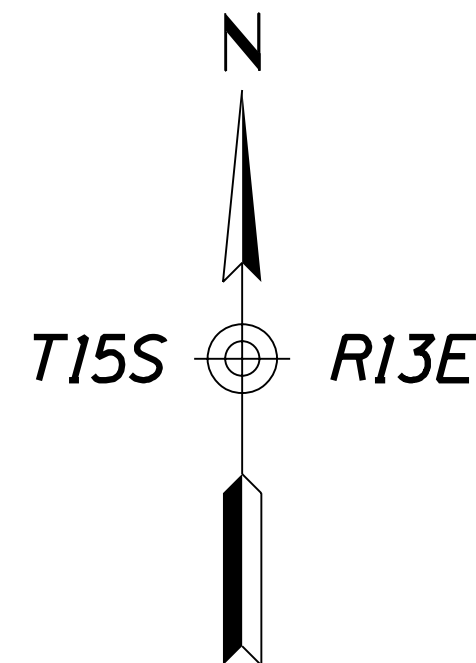
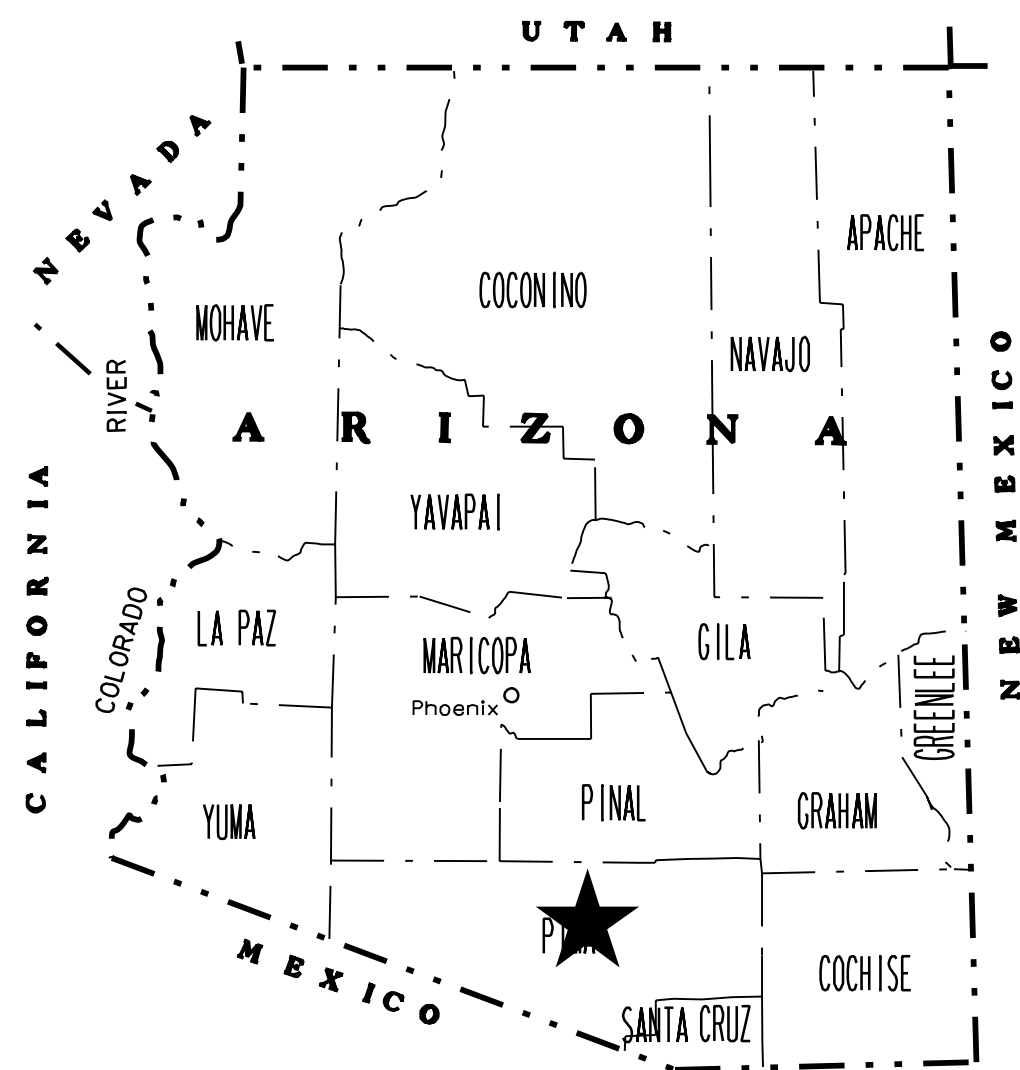
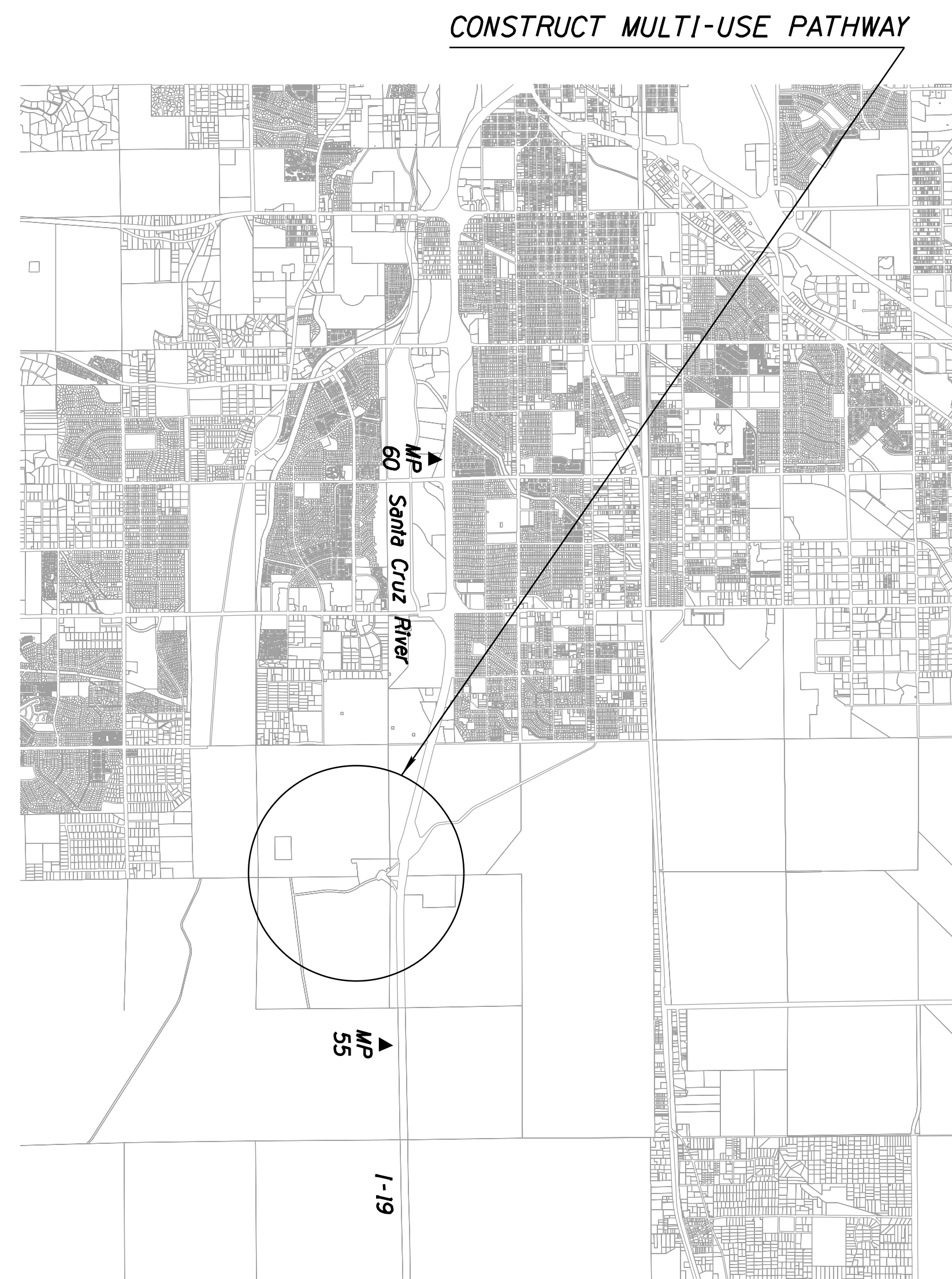




STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
PROJECT PLANS

SAN XAVIER DISTRICT
OF THE
TOHONO O'ODHAM NATION



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

SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19

PROJECT NO. 0000 PM ITO SL698 01C
FEDERAL AID NO. ITO-0(204)T

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
AUDRA MERRICK, P.E., STATE ENGINEER

RECORD DRAWING DATE	RECORD DRAWINGS DATE	OF
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ADOT STANDARD DRAWINGS

CONSTRUCTION STANDARDS
EFFECTIVE MARCH 2025

DATE	STANDARD	SUBJECT TITLE
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
12/17	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
12/17	C-04.10 SH 1	SPILLWAY, EMBANKMENT SINGLE INLET
12/17	C-04.10 SH 2	SPILLWAY, EMBANKMENT DOUBLE INLET
12/17	C-04.20 SH 1	DOWNDRAIN, EMBANKMENT SINGLE INLET
12/17	C-04.20 SH 2	DOWNDRAIN, EMBANKMENT DOUBLE INLET
12/17	C-04.30	SPILLWAY LENGTH TABLE
12/17	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
8/21	C-07.06	TRENCH BACKFILL AND PAVEMENT REPLACEMENT
5/12	C-08.20	PAVED GORE AREA
12/17	C-10.00	GUARDRAIL MEASUREMENT LIMITS
12/17	C-10.01	GUARDRAIL INSTALLATION
12/17	C-10.03	W-BEAM GUARDRAIL, MGS BLOCKED-OUT TIMBER POST
12/17	C-10.04	W-BEAM GUARDRAIL, MGS BLOCKED-OUT STEEL POST
12/17	C-10.05 SH 1	W-BEAM GUARDRAIL (MODIFIED) WITH FREEWAY CURB AND GUTTER
12/17	C-10.05 SH 2	W-BEAM GUARDRAIL (MODIFIED) WITH FREEWAY CURB AND GUTTER
12/17	C-10.06	W-BEAM GUARDRAIL LONG-SPAN
12/17	C-10.07 SH 1	W-BEAM GUARDRAIL, BOX CULVERT GUARDRAIL POST
12/17	C-10.07 SH 2	W-BEAM GUARDRAIL, BOX CULVERT GUARDRAIL POST
12/17	C-10.08 SH 1	W-BEAM GUARDRAIL, END ANCHOR
12/17	C-10.08 SH 2	W-BEAM GUARDRAIL, END ANCHOR
12/17	C-10.09	GUARDRAIL POST ROCK INSTALLATION
4/19	C-10.20 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR SOFTSTOP
4/19	C-10.20 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR SOFTSTOP
4/19	C-10.21 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MSKT
4/19	C-10.21 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MSKT
4/19	C-10.22 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MAX-TENSION
4/19	C-10.22 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MAX-TENSION
4/21	C-10.23 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR SGET
4/21	C-10.23 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR SGET
3/25	C-10.24 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR NGT
3/25	C-10.24 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR NGT
11/19	C-10.26 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MFLEAT
11/19	C-10.26 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MFLEAT
12/17	C-10.30 SH 1	GUARDRAIL TRANSITION TO CONCRETE BARRIER, TIMBER POST
12/17	C-10.30 SH 2	GUARDRAIL TRANSITION TO CONCRETE BARRIER, TIMBER POST
12/17	C-10.31 SH 1	GUARDRAIL TRANSITION TO CONCRETE BARRIER, STEEL POST
12/17	C-10.31 SH 2	GUARDRAIL TRANSITION TO CONCRETE BARRIER, STEEL POST
12/17	C-10.38 SH 1	GUARDRAIL TAPER G4 TO MGS W-BEAM WITH STAGGERED POST
12/17	C-10.38 SH 2	GUARDRAIL TAPER G4 TO MGS W-BEAM WITH OFFSET RAIL
12/17	C-10.40	CONCRETE MEDIAN BARRIER, 32" TYPE 'F', CAST-IN-PLACE
12/17	C-10.41	CONCRETE MEDIAN BARRIER, 42" TYPE 'F', CAST-IN-PLACE
12/17	C-10.44 SH 1	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=0"TO 26"
12/17	C-10.44 SH 2	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=0"TO 26"
12/17	C-10.45 SH 1	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=26"TO 60"
12/17	C-10.45 SH 2	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=26"TO 60"
12/17	C-10.50 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F', CAST-IN-PLACE
12/17	C-10.50 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F', PRECAST
12/17	C-10.51	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH SIDEWALK

DATE	STANDARD	SUBJECT TITLE
12/17	C-10.52	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH GUTTER
12/17	C-10.53	CONCRETE HALF BARRIER, 42" TYPE 'F' WITH GUTTER
12/17	C-10.54 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, CAST-IN-PLACE
12/17	C-10.54 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, PRECAST
12/17	C-10.54 SH 3	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, LAYOUT
12/17	C-10.55 SH 1	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, CAST-IN-PLACE
12/17	C-10.55 SH 2	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, PRECAST
12/17	C-10.55 SH 3	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, LAYOUT
12/17	C-10.70 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
12/17	C-10.70 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
12/17	C-10.70 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
12/17	C-10.71 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
12/17	C-10.71 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
12/17	C-10.72 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
12/17	C-10.72 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
12/17	C-10.72 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
12/17	C-10.73 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
12/17	C-10.73 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
12/17	C-10.74	CONCRETE HALF-BARRIER TRANSITION, 42" TO 32" TYPE 'F'
12/17	C-10.75 SH 1	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' TANGENT DEPARTURE TYPE 1
12/17	C-10.75 SH 2	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' TANGENT DEPARTURE TYPE 2
12/17	C-10.76	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' AT RADIUS, 32" TO 0"
4/19	C-10.77	CONCRETE BARRIER TRANSITION TO GUARDRAIL END TERMINAL LAYOUT WITH CURB
12/17	C-10.78	CONCRETE HALF-BARRIER TRANSITION, 32" TYPE 'F' LOW SPEED APPROACH
12/17	C-10.79	CONCRETE HALF-BARRIER TRANSITION, 42" TYPE 'F' TANGENT DEPARTURE
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, TYPE 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
8/23	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	RAIL 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

ADOT STANDARD DRAWINGS REVISION DATES and STANDARD NO.'s REVIEW			
CONSTRUCTION STANDARDS		NAME	DATE
PROJECT NO.		.Matt_Kershner	07/07/26
0000.PM.ITO.SL698.01C		1A	OF 44
RECORD DRAWING DATA	FEDERAL ID NO. .ITO-0(204)I	REC. DWG. DATE	OF

ADOT STANDARD DRAWINGS

TRAFFIC SIGNING & MARKING STANDARDS

(SHEET 1 OF 2)

EFFECTIVE MAY 2025

REVISION DATE	STANDARD NUMBER	SUBJECT : SIGNING AND MARKING DETAILS
6/14	M-1	CURB MARKINGS FOR RAISED MEDIAN AND ISLANDS
1/20	M-2 SHT 1	INTERSECTION STRIPING
5/15	M-2 SHT 2	INTERSECTION STRIPING (TWO-LANE RURAL)
6/14	M-2 SHT 3	CENTERLINE AND REVERSE CURVE DETAILS
6/14	M-3	STRIPING AND DELINEATION FOR FREEWAY TERMINALS
6/14	M-4	PASSING LANE STRIPING DETAILS
6/14	M-5	RAILROAD PAVEMENT MARKINGS
6/14	M-6	WORD MARKINGS
6/14	M-7	PAVEMENT LETTERS
6/14	M-8	PAVEMENT LETTERS
6/14	M-9	PAVEMENT NUMBERS
6/14	M-10 SHT 1	PAVEMENT MARKING SYMBOLS
6/14	M-10 SHT 2	PAVEMENT MARKING SYMBOLS
5/25	M-10 SHT 3	PAVEMENT MARKING SYMBOLS
6/14	M-11	TURN LANE PAVEMENT MARKINGS
6/14	M-12	WRONG-WAY ARROWS
1/19	M-13	PREFERENTIAL LANE PAVEMENT MARKINGS
6/14	M-14	STRIPING AND DELINEATION FOR TRUCK ESCAPE RAMPS
8/20	M-15 SHT 1	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - TAPERED ACCELERATION LANE
8/20	M-15 SHT 2	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE
8/20	M-15 SHT 3	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE WITH HOV BYPASS
6/14	M-15 SHT 4	PAVEMENT MARKING FOR FREEWAY PARALLEL - ACCELERATION LANE
8/20	M-16 SHT 1	PAVEMENT MARKING FOR FREEWAY EXIT RAMPS - TAPERED DECELERATION LANE
8/20	M-16 SHT 2	PAVEMENT MARKING FOR FREEWAY EXIT RAMP - PARALLEL DECELERATION LANE
8/20	M-17	FREEWAY LANE DROP PAVEMENT MARKINGS
11/24	M-19 SHT 1	RAISED PAVEMENT MARKER PLAN LEGEND
6/14	M-19 SHT 2	NON-REFLECTIVE RAISED PAVEMENT MARKER DETAILS
11/24	M-19 SHT 3	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS
11/24	M-19 SHT 4	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS
5/15	M-19 SHT 5	PAVEMENT MARKING DETAILS FOR UNDIVIDED HIGHWAYS
6/14	M-19 SHT 6	RETROREFLECTIVE RAISED PAVEMENT MARKERS (RPM) FOR UNDIVIDED HIGHWAYS
8/20	M-19 SHT 7	FREEWAY AND DIVIDED HIGHWAY EDGE LINE AND LANE STRIPING
5/15	M-19 SHT 8	LANE DROP MARKING AND RAMP OR INTERSECTION GUIDE STRIPING
8/20	M-19 SHT 9	PAVEMENT MARKING CROSS-SECTION DETAILS FOR HIGHWAYS AND FREEWAYS
6/24	M-19 SHT 10	CONTRAST LANE LINE FOR FREEWAY AND DIVIDED HIGHWAY
10/23	M-19 SHT 11	LEAD-LAG CONTRAST PAVEMENT MARKINGS FOR CONCRETE PAVEMENT

REVISION DATE	STANDARD NUMBER	SUBJECT : SIGNING AND MARKING DETAILS
6/14	M-20 SHT 1	CHIP SEAL MARKER USAGE FOR TEMPORARY MARKERS
6/14	M-20 SHT 2	CHIP SEAL MARKER USAGE FOR TEMPORARY MARKERS
6/14	M-21	TRANSVERSE RUMBLE STRIP DETAILS
9/21	M-22 SHT 1	LONGITUDINAL RUMBLE STRIP GROOVE, PATTERN - AND LOCATION DETAILS
9/21	M-22 SHT 2	LONGITUDINAL RUMBLE STRIP EXCEPTION DETAILS
9/21	M-22 SHT 3	ENTRANCE AND EXIT RAMPS RUMBLE STRIP INSTALLATION DETAILS
3/22	M-22 SHT 4	CENTERLINE RUMBLE STRIP GROOVE, PATTERN - AND LOCATION DETAILS
6/14	M-23	OBJECT MARKER DETAILS
6/14	M-24	OBJECT MARKER PLACEMENT DETAILS
2/21	M-26 SHT 1	DELINEATOR PLACEMENT AND SPACING
2/21	M-26 SHT 2	DELINEATOR PLACEMENT AND SPACING
2/21	M-26 SHT 3	FLEXIBLE DELINEATOR ASSEMBLIES
2/21	M-26 SHT 4	SQUARE STEEL POST DELINEATOR
2/21	M-26 SHT 5	DELINEATOR FOUNDATION DETAILS
2/21	M-27 SHT 1	DELINEATION DETAILS FOR MEDIAN CROSSOVERS
2/21	M-27 SHT 2	DELINEATION DETAILS FOR MEDIAN CROSSOVERS
6/14	M-29	OFF- MAINLINE REFERENCE MARKER LOCATION DETAIL
6/14	M-30	OFF- MAINLINE REFERENCE MARKER DETAILS
6/14	M-32	BRIDGE AND BARRIER MARKER DETAILS
6/14	M-33	BRIDGE AND BARRIER MARKER PLACEMENT AND INSTALLATION DETAILS
6/14	M-34	GUARDRAIL END TERMINAL DELINEATION DETAILS
6/14	M-35	OBJECT MARKER FOR SAND BARREL CRASH CUSHION

ADOT STANDARD DRAWINGS REVISION DATES and STANDARD NO.'s REVIEW			
SIGNING & MARKING STANDARDS		NAME Matt Kershner	DATE 07/07/26
PROJECT NO. 0000 PM ITO SL698 01C		1B-1	OF 44
RECORD DRAWING DATA	FEDERAL ID NO. ITO-0(204)T	REC. DWG. DATE	OF

ADOT STANDARD DRAWINGS

TRAFFIC SIGNING & MARKING STANDARDS

(SHEET 2 OF 2)

EFFECTIVE MAY 2025

REVISION DATE	STANDARD NUMBER	SUBJECT : SIGNING AND MARKING DETAILS
4/19	S-1 SHT 1	GENERAL SIGNING NOTES
6/14	S-2 SHT 1	S & W BREAKAWAY POST SELECTION CHART
6/14	S-2 SHT 2	S & W BREAKAWAY POST INSTALLATION DETAILS
6/14	S-3 SHT 1	FLAT SHEET SIGNS SQUARE TUBE POST GENERAL NOTES
6/14	S-3 SHT 2	SINGLE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 12, 18 AND 24 INCH WIDTHS
6/14	S-3 SHT 3	SINGLE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 30, 36, 42 AND 54 INCH WIDTHS
6/14	S-3 SHT 4	TWO POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 36, 42 AND 48 INCH WIDTHS
6/14	S-3 SHT 5	TWO POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 54, 60 AND 72 INCH WIDTHS
6/14	S-3 SHT 6	TWO POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 84 - 144 INCH WIDTHS
6/14	S-3 SHT 7	THREE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 48, 60 AND 72 INCH WIDTHS
6/14	S-3 SHT 8	THREE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 84 - 144 INCH WIDTHS
6/14	S-3 SHT 9	WARNING SIGN ASSEMBLY - SINGLE POST
6/14	S-3 SHT 10	WARNING SIGN ASSEMBLY - TWO POST
6/14	S-3 SHT 11	WARNING SIGN ASSEMBLY - THREE POST
6/14	S-3 SHT 12	MULTIPLE ROUTE MARKER ASSEMBLIES
6/14	S-3 SHT 13	SPECIAL SIGN ASSEMBLIES
6/14	S-3 SHT 14	STRINGER DETAILS FOR SQUARE TUBE POSTS
6/14	S-3 SHT 15	SQUARE TUBE SIGN POST FOUNDATION
6/14	S-3 SHT 16	SQUARE TUBE POST SLIP BASE DETAILS
6/14	S-4	W SHAPE BREAKAWAY POST FUSE PLATE AND HINGE DETAILS
6/22	S-5	W SHAPE BREAKAWAY POST DETAILS
6/22	S-6	S4x7.7 BREAKAWAY POST DETAILS
6/14	S-7 SHT 1	ALUMINUM EXTRUSION SIGN PANEL DETAILS
6/14	S-7 SHT 2	ALUMINUM EXTRUSION AUXILIARY SIGN INSTALLATION DETAILS
5/15	S-7 SHT 3	ALUMINUM EXTRUSION EXIT PANEL INSTALLATION DETAIL
6/14	S-8 SHT 1	FLAT SHEET ALUMINUM PANEL ON BREAKAWAY POSTS INSTALLATION DETAIL
6/14	S-8 SHT 2	ALUMINUM EXTRUSION SIGN TO PERFORATED POSTS INSTALLATION DETAIL
8/22	S-9 SHT 1	SIGN INSTALLATION ON POLE
8/22	S-9 SHT 2	SIGNS (BACK TO BACK) INSTALLATION ON POLE
8/22	S-9 SHT 3	SIGN INSTALLATION ON SIGNAL POLE
8/22	S-9 SHT 4	SIGN INSTALLATION ON POLE BAND-TYPE CLAMP
6/14	S-10	MILEPOST AND REFERENCE LOCATION SIGNS
11/22	S-11 SHT 1	TAPERED TUBE SIGN STRUCTURE SINGLE BEAM
4/19	S-11 SHT 2	TAPERED TUBE SIGN STRUCTURE SINGLE BEAM POST AND BEAM DETAILS

REVISION DATE	STANDARD NUMBER	SUBJECT : SIGNING AND MARKING DETAILS
6/14	S-12 SHT 1	TYPE A, B, AND DOWN ARROWS
6/14	S-12 SHT 2	TYPE C AND D ARROWS
6/14	S-12 SHT 3	C2 ARROW DETAIL
6/14	S-13	SIGN IDENTIFICATION DETAILS
6/14	S-14 SHT 1	ROTATING OPEN/CLOSED SIGN
6/14	S-14 SHT 2	ROTATING OPEN/CLOSED SIGN DETAILS
6/14	S-14 SHT 3	ROTATING OPEN/CLOSED SIGN MOUNTING DETAILS
6/14	S-15 SHT 1	FOLDING RECTANGULAR SIGN ASSEMBLY
6/14	S-15 SHT 2	FOLDING RECTANGULAR SIGN OPERATION
6/14	S-15 SHT 3	FOLDING DIAMOND SIGN ASSEMBLY
4/19	S-16 SHT 1	TEMPORARY WOOD POSTS
4/19	S-16 SHT 2	TEMPORARY WOOD POSTS SELECTION CHART
6/14	S-17	END OF ROAD BARRICADE
7/19	S-18 SHT 1	ALUMINUM GRAFFITI SHIELD EXIT AND GUIDE SIGN ASSEMBLY
7/19	S-18 SHT 2	ALUMINUM GRAFFITI SHIELD RIGHT RIDER SIDE PANEL
7/19	S-18 SHT 3	ALUMINUM GRAFFITI SHIELD LEFT RIDER SIDE PANEL
7/19	S-18 SHT 4	ALUMINUM GRAFFITI SHIELD CORNER
7/19	S-18 SHT 5	ALUMINUM GRAFFITI SHIELD SPLICE PLATE
7/19	S-18 SHT 6	ALUMINUM GRAFFITI SHIELD FIN
7/19	S-18 SHT 7	ALUMINUM GRAFFITI SHIELD TOP PANEL
7/19	S-18 SHT 8	ALUMINUM GRAFFITI SHIELD SIDE PANEL
7/19	S-18 SHT 9	ALUMINUM GRAFFITI SHIELD RIGHT TRANSITION FROM RIDER
7/19	S-18 SHT 10	ALUMINUM GRAFFITI SHIELD LEFT TRANSITION FROM RIDER
7/19	S-18 SHT 11	ALUMINUM GRAFFITI SHIELD SPLICE PLATE FOR FIN
12/18	C-1	SAND BARREL CRASH CUSHION
12/18	C-2	SAND BARREL CRASH CUSHION TYPICAL INSTALLATION
6/14	C-3 SHT 1	PRECAST CONCRETE BARRIER STRUCTURAL DETAILS
6/14	C-3 SHT 2	PRECAST CONCRETE BARRIER PIN AND LOOP ASSEMBLY
6/14	C-4 SHT 1	MEDIAN CROSSOVER
6/14	C-4 SHT 2	TYPICAL END TREATMENTS FOR DETOURS USING TEMPORARY CONCRETE BARRIER (TCB)
6/14	C-5 SHT 1	APPROACH PLATE AND TRANSITION SECTION FOR TEMPORARY CONCRETE BARRIER
6/14	C-5 SHT 2	APPROACH PLATE AND TRANSITION SECTION FOR TEMPORARY CONCRETE BARRIER

ADOT STANDARD DRAWINGS REVISION DATES and STANDARD NO.'s REVIEW			
SIGNING & MARKING STANDARDS		NAME Matt Kershner	DATE 07/07/26
PROJECT NO. 0000 PM ITO SL698 01C		1B-2	OF 44
RECORD DRAWING DATA	FEDERAL ID NO. ITO-0(204)T	REC. DWG. DATE	OF

1. SPILL PREVENTION, CONTROL, AND COUNTERMEASURES – CWA SECTION 311

If total above-ground storage capacity, including mobile re-fuelers stationed on-site, is greater than 1,320 gallons of oil (oils, greases, fuel, asphalt, and asphalt derivatives), where a spill has the potential to reach Waters of the US, the Contractor shall prepare a SPCC plan per contract specifications in Section 104.16 (C) of the Standard Specifications.

2. SURFACE WATER POLLUTION PREVENTION – CWA SECTION 402

☒ No CWA Section 402 Construction General Permit (CGP) Action Required; See Std. Spec. 104.09 and 104.10 for General Requirements

3. WORK IN WATERS OF THE UNITED STATES – CWA SECTION 404/401

☒ No Permit Required; Refer to Section 104.16 (D) of the Standard Specifications for General Requirements

4. BIOLOGY PROGRAM – ESA SECTION 7; MBTA, ARIZONA REVISED STATUTES TITLE 17

BIO-1: Environmental Awareness, Monitoring and Avoidance ☒ N/A

BIO-2: Migratory Bird Treaty Act (MBTA) ☐ N/A

The contractor shall avoid nests with relocation directions.

BIO-2A: General Seasonal Restrictions for MBTA, refer to seasonal dates in EPIC and general requirements in 104.16(E) of the Standard Specifications.

If construction occurs during the migratory bird breeding season: March 1 to August 31 refer to Section 104.16 BIO-2 of the specifications for direction.

BIO-2D: MBTA – Active Cliff Swallow Nests ☒ N/A

BIO-3: Burrowing Owls ☐ N/A

BIO-3A: Burrowing Owl Awareness Flyer; see Section 104.16 BIO-3A of the specifications for direction.

BIO-4: Bats ☒ N/A

BIO-5: Sonoran Desert Tortoise ☒ No ☐ Yes

5. VEGETATION PROTECTION PROGRAM – CWA SECTION 402, EO 13122

General (applies to all projects); The contractor shall comply with the requirements specified in Section 104.16 (F) of the Special Provisions and Section 104.16 (B) of the Standard Specifications.

☒ Noxious Species Control Plan (NSCP) required

6. CULTURAL RESOURCES PROGRAM

☐ No Cultural Resources Program Action Required; See Std. Spec. 107.05 and 107.06 for General Requirements

- ☐ **Training** needed for cultural resources, refer to Section 10 of the EPIC Sheet and/or Section 104.17 of the Special Provisions for detailed instructions as applicable.
- ☐ **Flagging** needed for cultural resources. Refer to Section 10 of the EPIC sheet for detailed instructions.
- ☐ **Fencing** needed for cultural resources. Refer to Section 10 of the EPIC sheet and Section 104.17 of the Special Provisions for detailed instructions.
- ☒ **Qualified Monitor** needed, Pre-construction coordination required with qualified archaeologist regarding construction schedule and associated monitoring efforts.
- ☐ **Avoid** all fenced and/or otherwise designated sensitive resource areas within or adjacent to the project area as indicated on plan sheets and/or in Section 10 of the EPIC Sheet.
- ☐ **Data recovery** needed, refer to Section 10 of the EPIC sheet for detailed instructions.

7. HAZARDOUS MATERIALS PROGRAM

General (applies to all projects); See Std. Spec. 107.07 for General Requirements.

☒ No Hazardous Materials Program Action Required

8. NOISE PROGRAM

☒ No Noise Program Specific Project Action Required; See Std. Spec. 104.08 for General Requirements

9. AIR QUALITY PROGRAM

 No Air Quality Program Action Required; See Std. Spec. 104.08 for General Requirements

10. OTHER ENVIRONMENTAL ISSUES

Project Specific Environmental Commitments: ☐ N/A

- The contractor shall not operate vehicles or heavy equipment without the presence of the designated archaeological monitor.
- The contractor shall develop a containment plan for debris and construction materials to avoid contamination of Santa Cruz River. The containment plan shall be approved by the Engineer prior to construction.

Arizona Department of Transportation Environmental Planning Standard Template					
Environmental, Permits, Issues, And Commitments (EPIC) Sheet					
Environmental Planner Name	Sarah Karasz		R.E. Name		
Environmental Planning Date of Completion	3/31/2026		R.E. Signature With the above signature, the R.E. attests that all EPIC work for this project has been satisfactorily completed.		
FEDERAL ID NO.	ITO-0(204)T				
PROJECT NO.	0000 PM ITO SL698 01C				
REC DWG DATE:			_____ OF _____		Sheet 1F

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

MIDPOINT OF PROJECT

Central Zone
State Plane Coordinates
X= 983,500
Y= 402,500

LENGTH OF PROJECT

San Xavier Rd
Gross Length = 3,579' = 0.68 Miles
Net Length = 3,579' = 0.68 Miles
Pathway Cst &
Sta 10+10.91 to Sta 45+74.00
Gross Length = 3,563.09' = 0.67 Miles
Net Length = 3,469.30' = 0.66 Miles

REFERENCES

TEA-019-A(222)T
TEA-170-O(202)T

EARTHWORK QUANTITIES

Item No.	Item Description	Quantity (CY)
2030201	Pathway Excavation	385
	Shrink	58
	*Riprap Excavation	59
	Shrink	9
	Total Excavation (Available Material)	377
	*Embankment (Includes Ground Compaction)	581
	Total Embankment	581
2030904	Borrow (In Place)	204

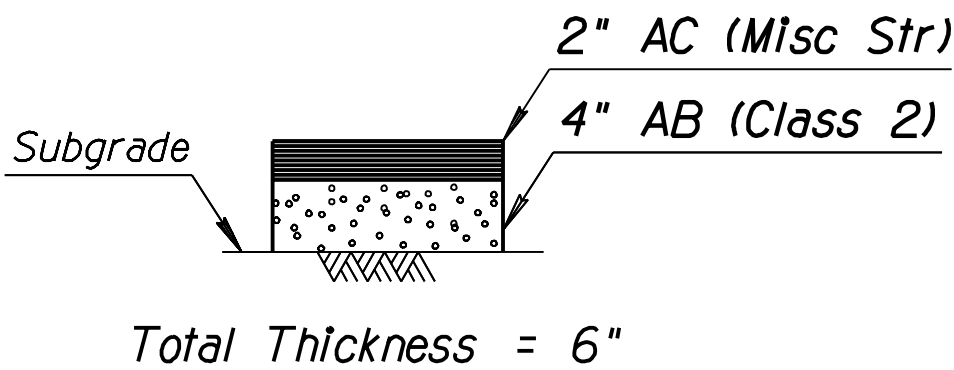
*No separate payment.

EARTHWORK FACTORS

Station	Shrink/Swell	Ground Compaction
Project	15% Shrink	0.15 Feet

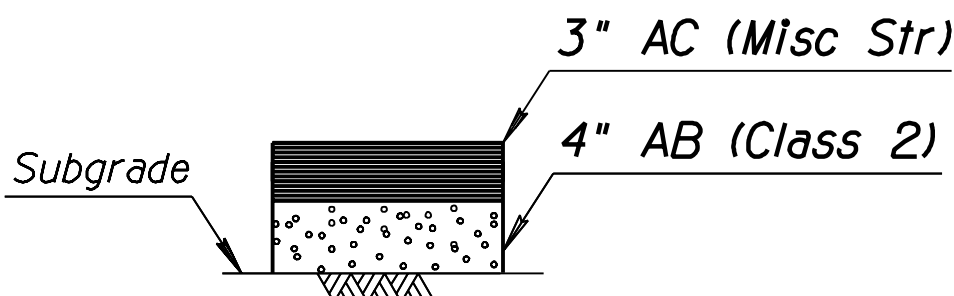
DESIGN DATA

San Xavier Rd 2024 ADT = 4,845 VPD
Posted Speed: 35 MPH



PAVEMENT STRUCTURAL SECTION NO. 1

Pathway



PAVEMENT STRUCTURAL SECTION NO. 2

Paved Turnouts &
Saw Cuts

SURVEY CONTROL NOTES

The Basis of Bearing for this project is N01°03'13"E, being the bearing of the west line of the northwest corner (NW 1/4) of Section 27, Township 15 South, Range 13 East, G&SRM, Pima County, Arizona.

The Basis of Elevation for this project is a brass cap survey monument located approximately 100' southwesterly from the intersection of the I-19 Southbound Exit 92 Off Ramp and San Xavier Road. The Elevation for said benchmark is 2,510.20' (NAVD88).

INDEX OF SHEETS

Sheet No.	Dwg. No.	Sheet Type
1		Face Sheet
1A & 1B		ADOT Standard Drawings
1F		EPIC Sheet
2	G-1.01	Design Sheet
3	G-2.01	Typical Sections Sheet
4	G-3.01	Curb, Curb & Gutter, Sidewalk Ramp, and Sidewalk Summary Sheet
5-8	G-4.01 - G-4.04	Detail Sheets
9-12	C-1.01 - C-1.04	Geometric Data and Layout Sheets
13-19	C-2.01 - C-2.07	Plan and Profile Sheets
20	C-3.01	Staking Plan
21	T-1.01	Traffic Control Notes & Quantities
22-23	T.1.02 - T-1.03	Traffic Control Plans
24	T-2.01	Signing & Pavement Marking Notes & Quantities
25-26	T-3.01 - T-3.02	Sign Summary Sheets
27-28	T-4.01 - T-4.02	Signing & Pavement Marking Plans
29-38	L-1.01 - L-1.10	Landscaping Plans
39	R-1.01	AZPDES SWPPP Index Sheet
40-42	R-1.02 - R-1.04	Erosion Control Details & Plans
43-44		Agency Standard Details

GENERAL NOTES

The roadway plans have been designed utilizing Construction Standard Drawings (C-Series). Refer to the 1A sheet for a listing of current revision dates.

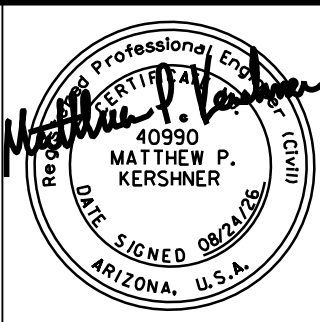
The project roadway shall be striped by the contractor in accordance with the current edition of the Signing and Marking Standard Drawings (M and S-Series) and the pavement marking plans.

Pavement lift thickness is nominal.

Where only the horizontal location of an existing utility is shown, the location is approximate. Where both the horizontal and vertical location of an existing utility is shown, the location has been verified by field survey methods. The contractor shall comply with all current AZ 811 laws and Section 107.15 of the Specifications.

The average project elevation is 2,515'.

New Right of Way is required. Specific use easements are not required: see plans.



	NAME	DATE
DESIGN	M KERSHNER	08/26
DRAWN	M KERSHNER	08/26
CHECKED	C VALENZUELA	08/26

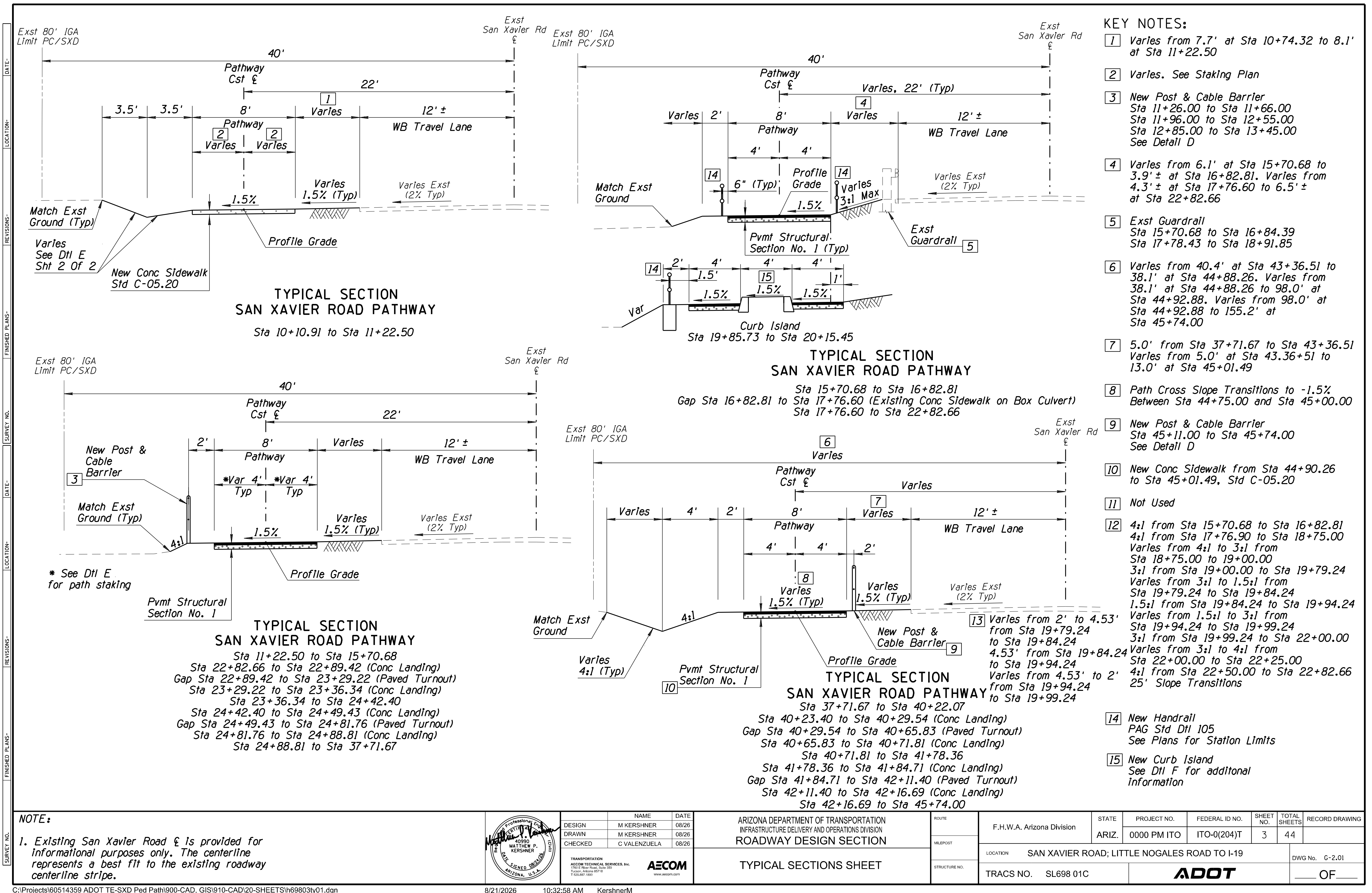
TRANSPORTATION
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T 520.887.1800
www.aecom.com

AECOM

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

DESIGN SHEET

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 PM ITO	ITO-0(204)T	2	44	
STRUCTURE NO.	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19				DWG No. G-1.01		
	TRACS NO. SL698 01C		ADOT		___ OF ___		



- KEY NOTES:**
- 1 Varies from 7.7' at Sta 10+74.32 to 8.1' at Sta 11+22.50
 - 2 Varies. See Staking Plan
 - 3 New Post & Cable Barrier
Sta 11+26.00 to Sta 11+66.00
Sta 11+96.00 to Sta 12+55.00
Sta 12+85.00 to Sta 13+45.00
See Detail D
 - 4 Varies from 6.1' at Sta 15+70.68 to 3.9'± at Sta 16+82.81. Varies from 4.3'± at Sta 17+76.60 to 6.5'± at Sta 22+82.66
 - 5 Exst Guardrail
Sta 15+70.68 to Sta 16+84.39
Sta 17+78.43 to Sta 18+91.85
 - 6 Varies from 40.4' at Sta 43+36.51 to 38.1' at Sta 44+88.26. Varies from 38.1' at Sta 44+88.26 to 98.0' at Sta 44+92.88. Varies from 98.0' at Sta 44+92.88 to 155.2' at Sta 45+74.00
 - 7 5.0' from Sta 37+71.67 to Sta 43+36.51
Varies from 5.0' at Sta 43.36+51 to 13.0' at Sta 45+01.49
 - 8 Path Cross Slope Transitions to -1.5%
Between Sta 44+75.00 and Sta 45+00.00
 - 9 New Post & Cable Barrier
Sta 45+11.00 to Sta 45+74.00
See Detail D
 - 10 New Conc Sidewalk from Sta 44+90.26 to Sta 45+01.49, Std C-05.20
 - 11 Not Used
 - 12 4:1 from Sta 15+70.68 to Sta 16+82.81
4:1 from Sta 17+76.90 to Sta 18+75.00
Varies from 4:1 to 3:1 from Sta 18+75.00 to 19+00.00
3:1 from Sta 19+00.00 to Sta 19+79.24
Varies from 3:1 to 1.5:1 from Sta 19+79.24 to Sta 19+84.24
1.5:1 from Sta 19+84.24 to Sta 19+94.24
Varies from 1.5:1 to 3:1 from Sta 19+94.24 to Sta 19+99.24
3:1 from Sta 19+99.24 to Sta 22+00.00
Varies from 3:1 to 4:1 from Sta 22+00.00 to Sta 22+25.00
4:1 from Sta 22+50.00 to Sta 22+82.66
25' Slope Transitions
 - 14 New Handrail
PAG Std Dtl 105
See Plans for Station Limits
 - 15 New Curb Island
See Dtl F for additional information

NOTE:

1. Existing San Xavier Road & is provided for informational purposes only. The centerline represents a best fit to the existing roadway centerline stripe.

DESIGN	M KERSHNER	08/26
DRAWN	M KERSHNER	08/26
CHECKED	C VALENZUELA	08/26

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

TYPICAL SECTIONS SHEET

ROUTE	F.H.W.A. Arizona Division	STATE	ARIZ.	PROJECT NO.	0000 PM ITO	FEDERAL ID NO.	ITO-0(204)T	SHEET NO.	3	TOTAL SHEETS	44	RECORD DRAWING	
MILEPOST	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19												
STRUCTURE NO.	TRACS NO. SL698 01C												

DWG No. G-2.01

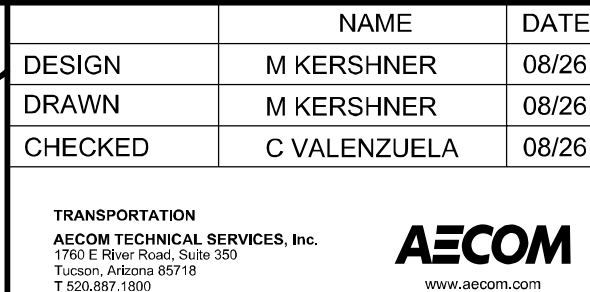
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C:\Projects\60514359 ADOT TE-SXD Ped Path\900-CAD, GIS\910-CAD\20-SHEETS\h69803ty01.dgn

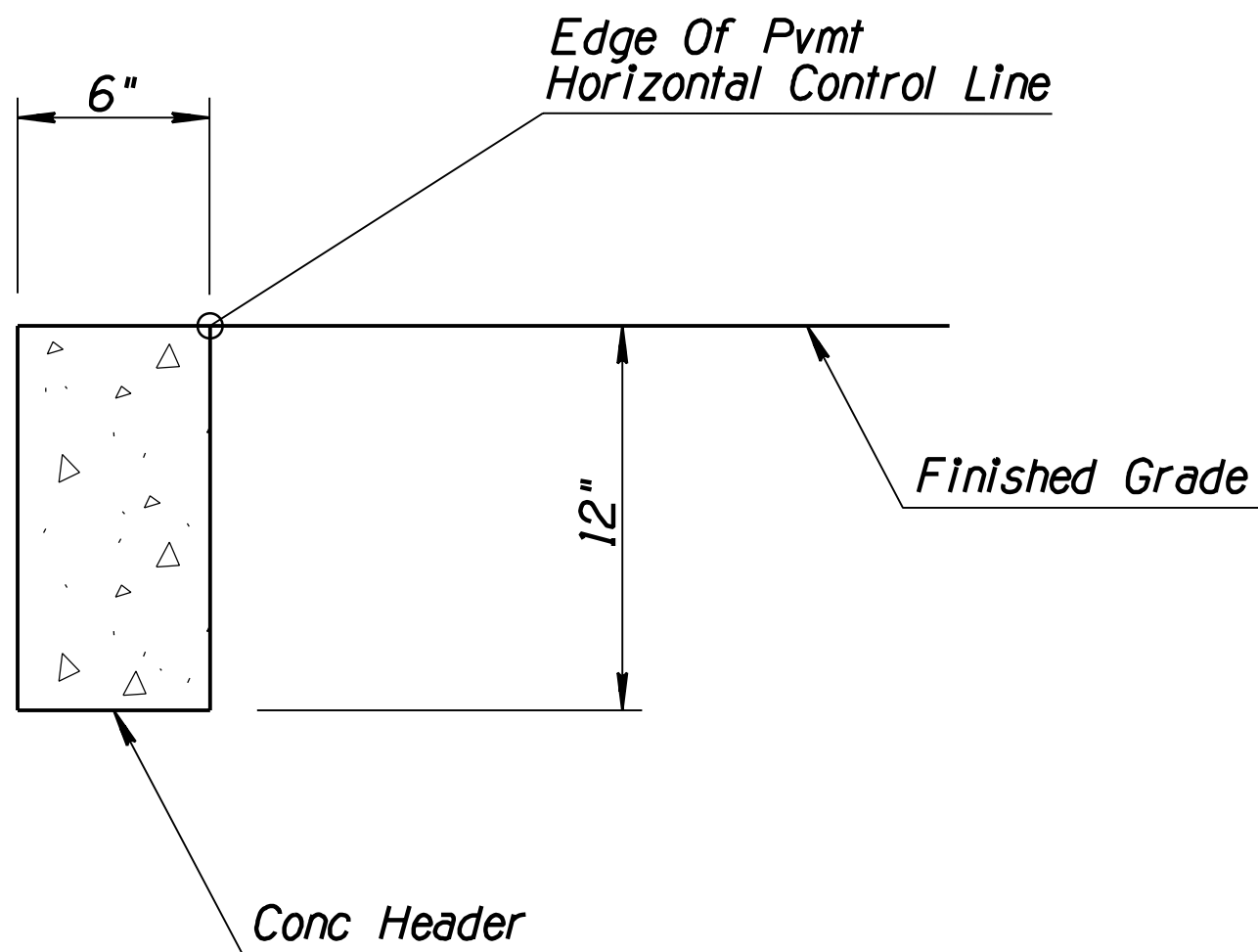
8/21/2026 10:32:58 AM KershnerM

CLIQUEY NO	EMISQUEN DI ANS-	DEVISIONS-	LOCATION-	DATE-

- * Place Detectable Warning Strips on all Concrete Sidewalk Ramps. See ADOT Std C-05.30, Sheet 7 of 7
- ** Stations and offsets are referenced from the Pathway Cst C.
- ** Station and offset for sidewalk ramps are to the center of the ramp.

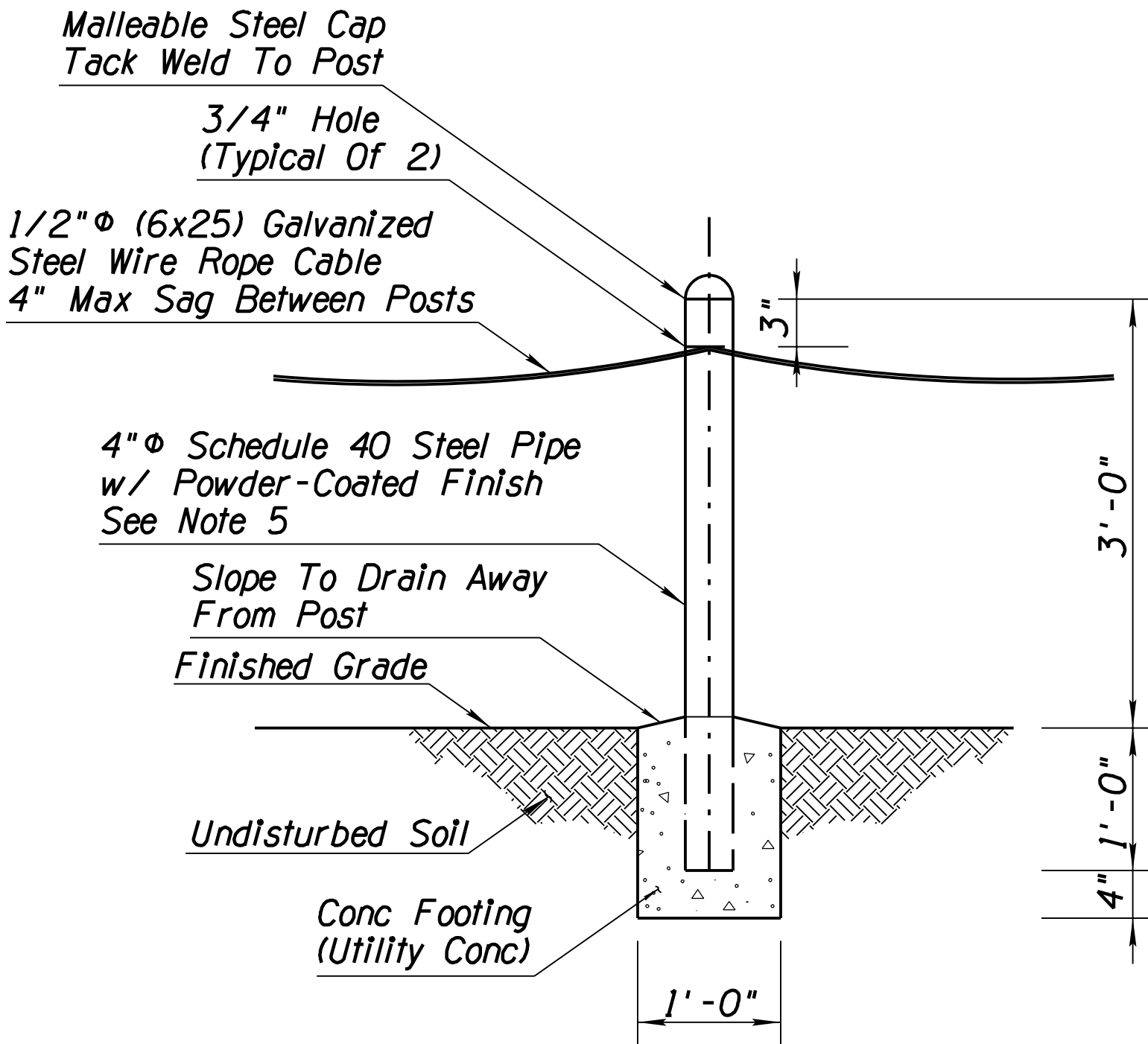


ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 PM ITO	ITO-0(204)T	4	44	
LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19							DWG No. G-3.0i
STRUCTURE NO.	TRACS NO. SL698 01C						___ OF ___



- NOTES:
- Concrete shall be Class B, $f'c=2,500$ psi.
 - Maximum spacing on scored joints shall be 10 feet.
 - One half inch thick expansion joints shall be located at tangent points in curb returns, transitions, and at a maximum of 60 feet intervals. Expansion material shall also be placed between curbs and adjacent structures, sidewalks, driveways and sidewalk ramps. The $\frac{1}{2}$ " joint filler shall extend the full depth of the concrete.
 - Concrete Header shall be paid for under Bid Item *9080402, Concrete Header (Detail C).

DETAIL C
CONCRETE HEADER

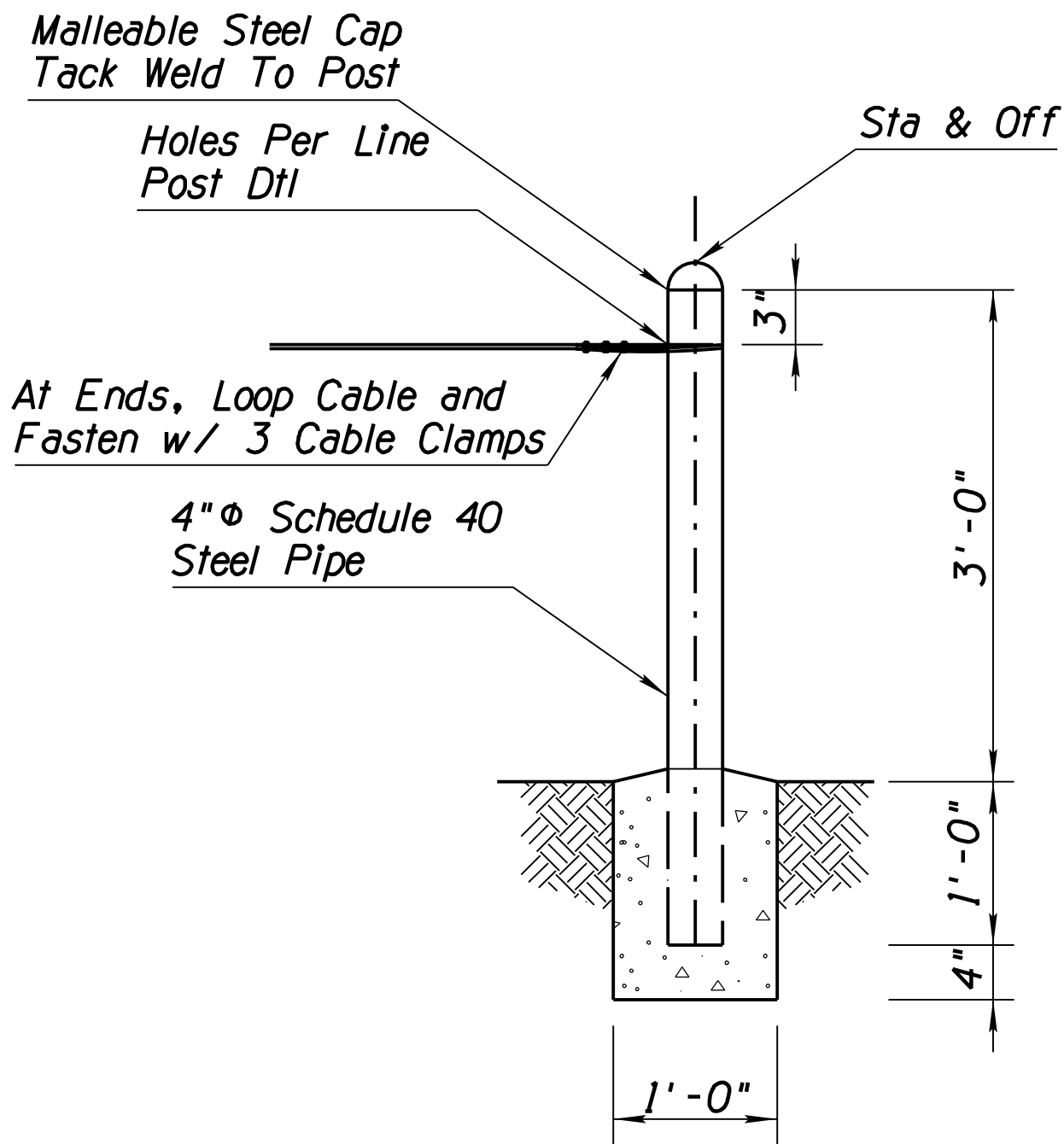


POST AND CABLE BARRIER ELEVATION
NTS

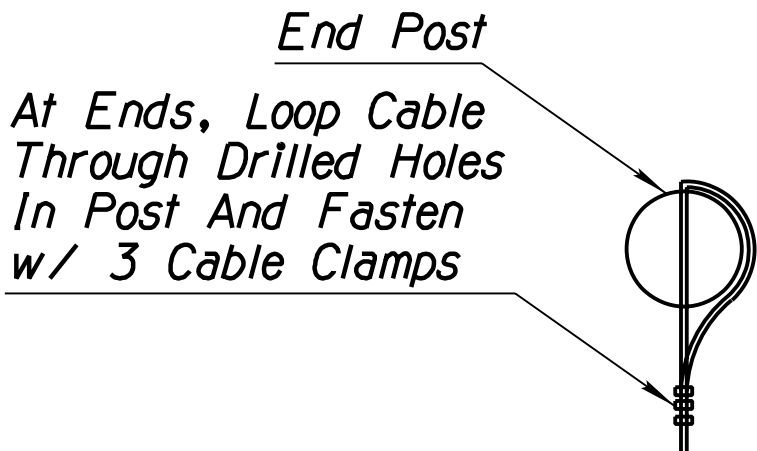
POST AND CABLE BARRIER LOCATION TABLE

Begin Sta & Off	End Sta & Off	Length (LF)
11+26.00, 8.10' Lt	11+66.00, 7.80' Lt	40'-0"
12+11.00, 6.00' Lt	12+55.00, 6.00' Lt	44'-0"
12+85.00, 6.00' Lt	13+45.00, 6.00' Lt	60'-0"
45+11.00, 6.00' Rt	45+74.00, 6.00' Rt	63'-0"

- NOTES:
- All stations and offsets are referenced from Pathway Cst & unless otherwise noted.
 - Cable to be terminated at end posts only. Splicing of cable between end posts is prohibited.
 - Distance between posts shall be 12'-0".
 - All work shown in this detail shall be included in Bid Item *9240144, Miscellaneous Work (Post and Cable Barrier) (Detail D).
 - Color to be selected by the Engineer and/or the San Xavier District.



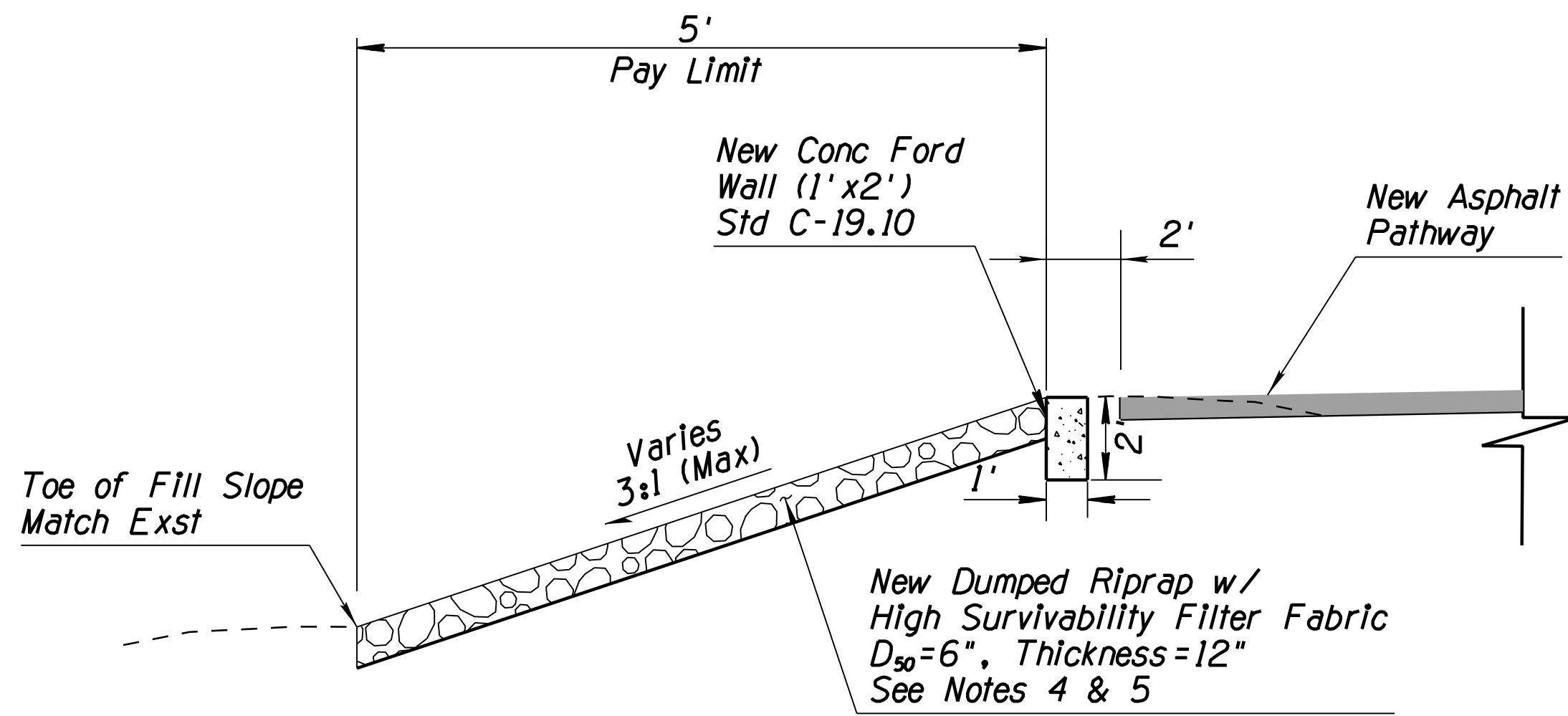
END POST ELEVATION
NTS



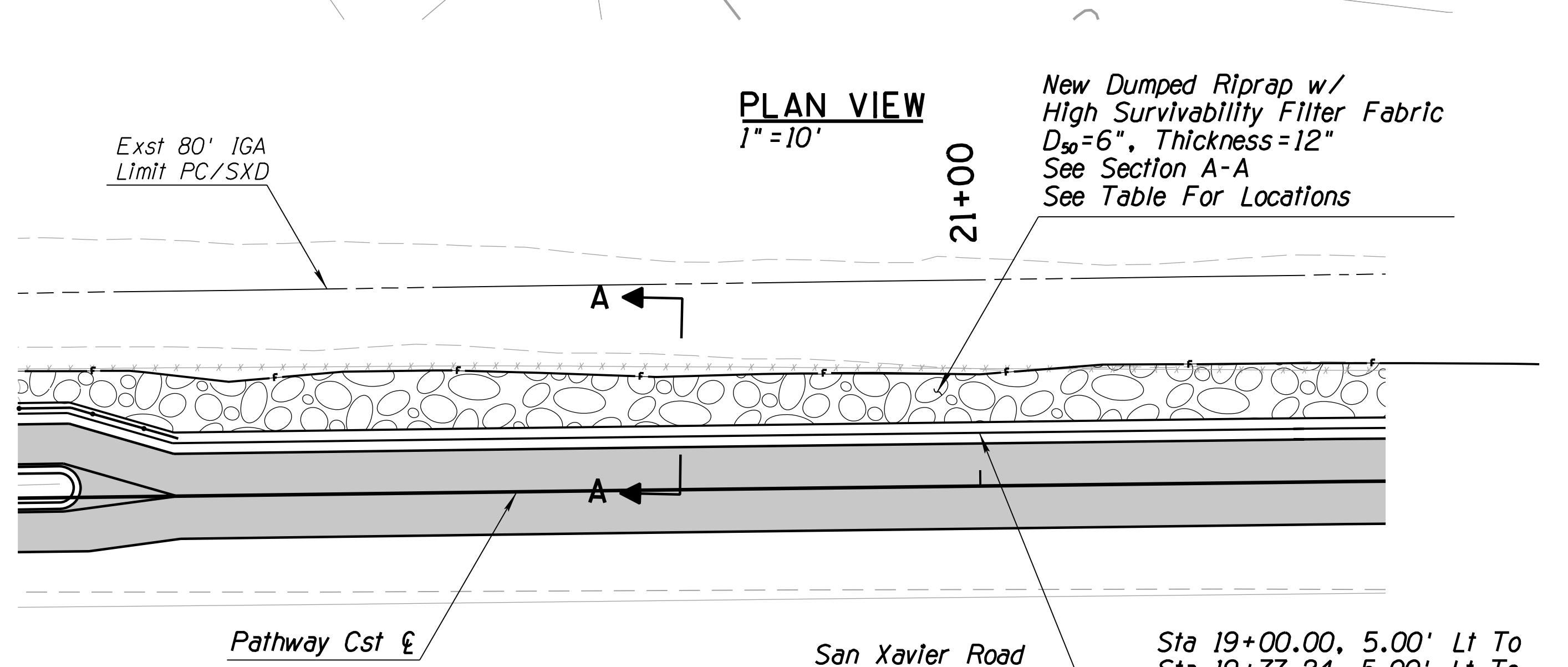
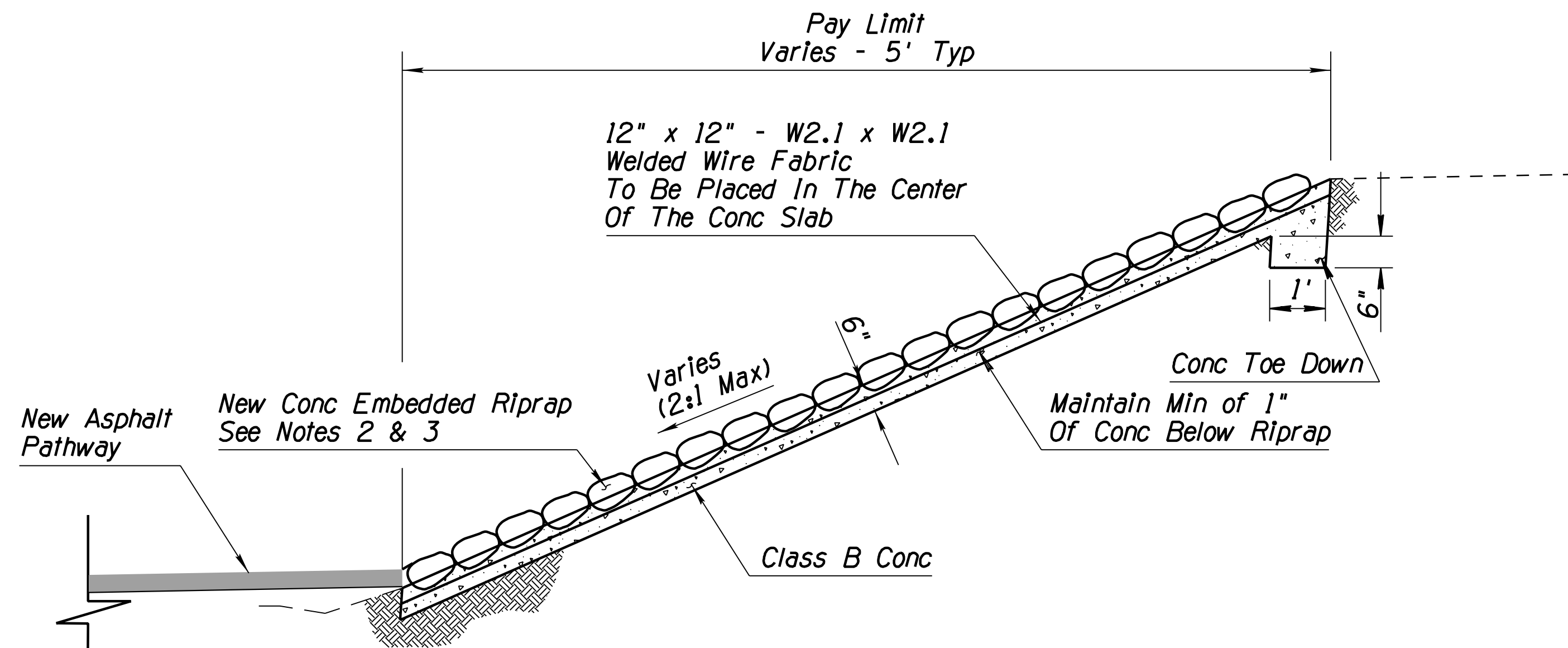
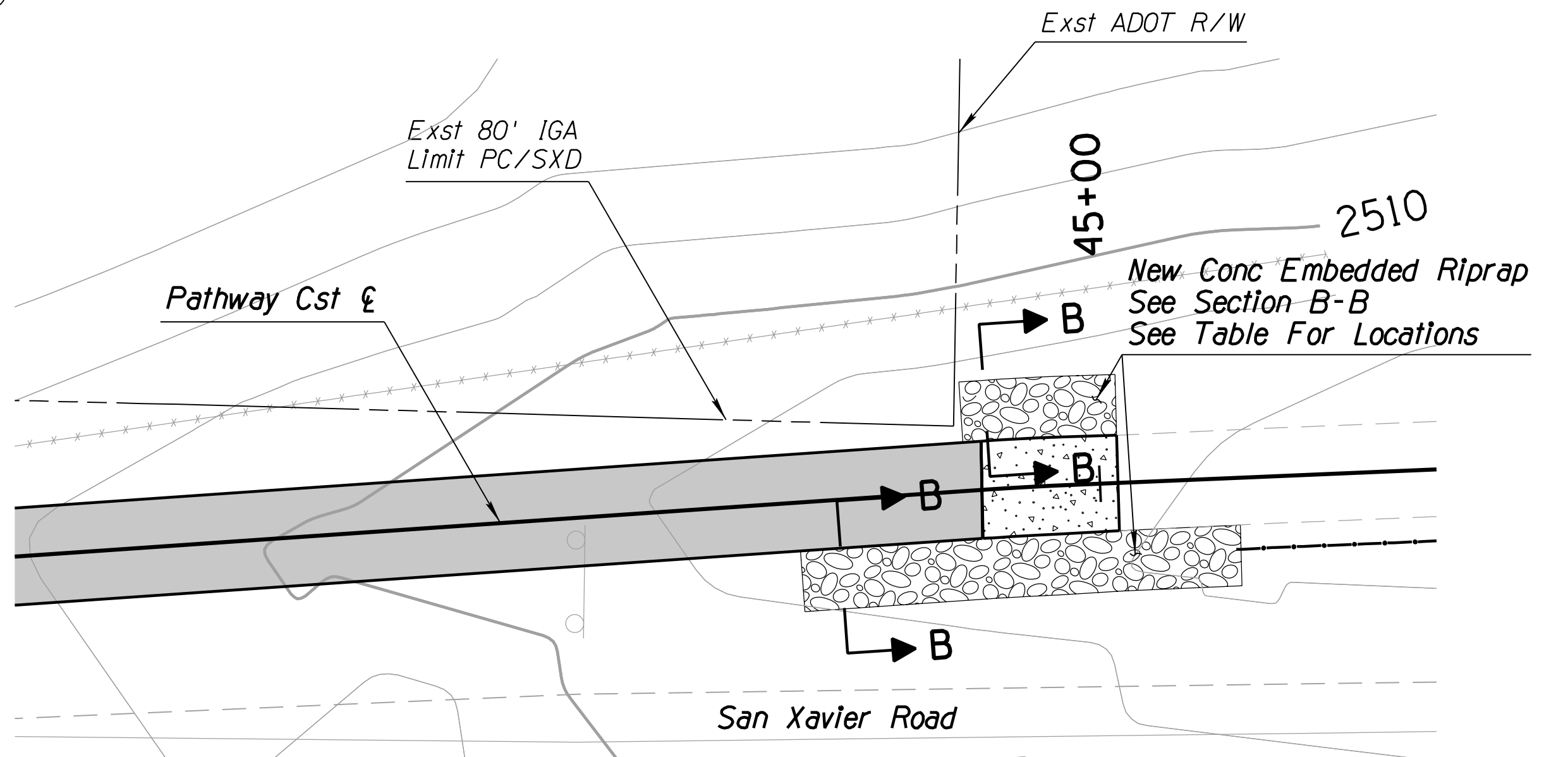
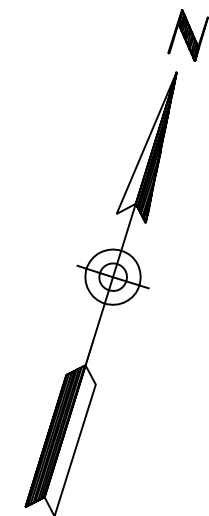
END POST PLAN
NTS

DETAIL D
POST AND CABLE BARRIER

Professional Engineer MATTHEW P. KERSHNER 40990 ARIZONA, U.S.A. DESIGN M KERSHNER 08/26 DRAWN M KERSHNER 08/26 CHECKED C VALENZUELA 08/26 TRANSPORTATION AECOM TECHNICAL SERVICES, Inc. 1700 E River Road, Suite 350 Tucson, Arizona 85718 T 520.887.1800 www.aecom.com AECOM www.aecom.com	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SECTION			ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO. 0000 PM ITO	FEDERAL ID NO. ITO-0(204)T	SHEET NO. 6	TOTAL SHEETS 44	RECORD DRAWING	
	DETAIL SHEET			MILEPOST	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19							DWG No. C-4.02
				STRUCTURE NO.	TRACS NO. SL698 01C					ADOT		OF



Gradation Table (6")	
Sieve Size	Percent Passing
12"	90-100
9"	70-85
6"	30-50
4"	5-15
2"	0-5



NOTES:

- All stations and offsets are referenced from Pathway Cst ℓ .
- Light tan, fractured face riprap shall be hand placed into concrete between the welded wire fabric so that a minimum and maximum reveal for the riprap is 1" and 3", respectively. Riprap shall range between 4" and 8". The face of the riprap shall be flat.
- Concrete embedded riprap shall be paid for under Bid Item #9240129, Miscellaneous Work (Concrete Embedded Riprap) (Detail E), including welded wire fabric, Class B concrete and excavation or backfill required to install concrete embedded riprap.
- Prior to dumped riprap being placed for erosion prevention, place embankment material in gullies and compact to 90% density to match in-situ density (for uniform compaction).
- Dumped riprap shall be paid for under Bid Item #9130051, Riprap (Dumped) ($D_{50}=6"$), which includes woven high survivability filter fabric.
- Concrete Ford Wall shall be paid for under Bid Item #9080502, Concrete Ford Wall (C-19.10, 1'x2').
- See Sheet 2 of 2 for conc embedded riprap details from Sta 10+14.52 to Sta 11+24.99.

DUMPED RIPRAP LOCATION TABLE

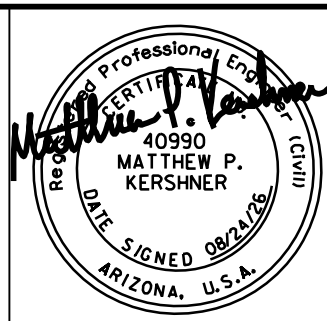
Begin Sta & Off	End Sta & Off	Area (Sq Yd)
19+00.00, 6.00' Lt	22+00.00, 6.00' Lt	175

CONC EMBEDDED RIPRAP LOCATION TABLE

Begin Sta & Off	End Sta & Off	Area (Sq Yd)
10+14.52, 30.87' Lt	11+24.99, 10.27' Lt	98
44+89.00, 4.00' Lt	45+01.55, 4.00' Lt	7
44+75.00, 4.00' Rt	45+11.40, 4.00' Rt	20

Sta 19+00.00, 5.00' Lt To
Sta 19+77.24, 5.00' Lt To
Sta 19+87.07, 8.00' Lt To
Sta 20+14.33, 8.00' Lt To
Sta 20+24.16, 5.00' Lt
Sta 22+00.00, 5.00' Lt
New Conc Ford Wall (1'x2')
Std C-19.10

DETAIL E
RIPRAP DETAILS
SHEET 1 OF 2



DESIGN	M KERSHNER	08/26
DRAWN	M KERSHNER	08/26
CHECKED	C VALENZUELA	08/26

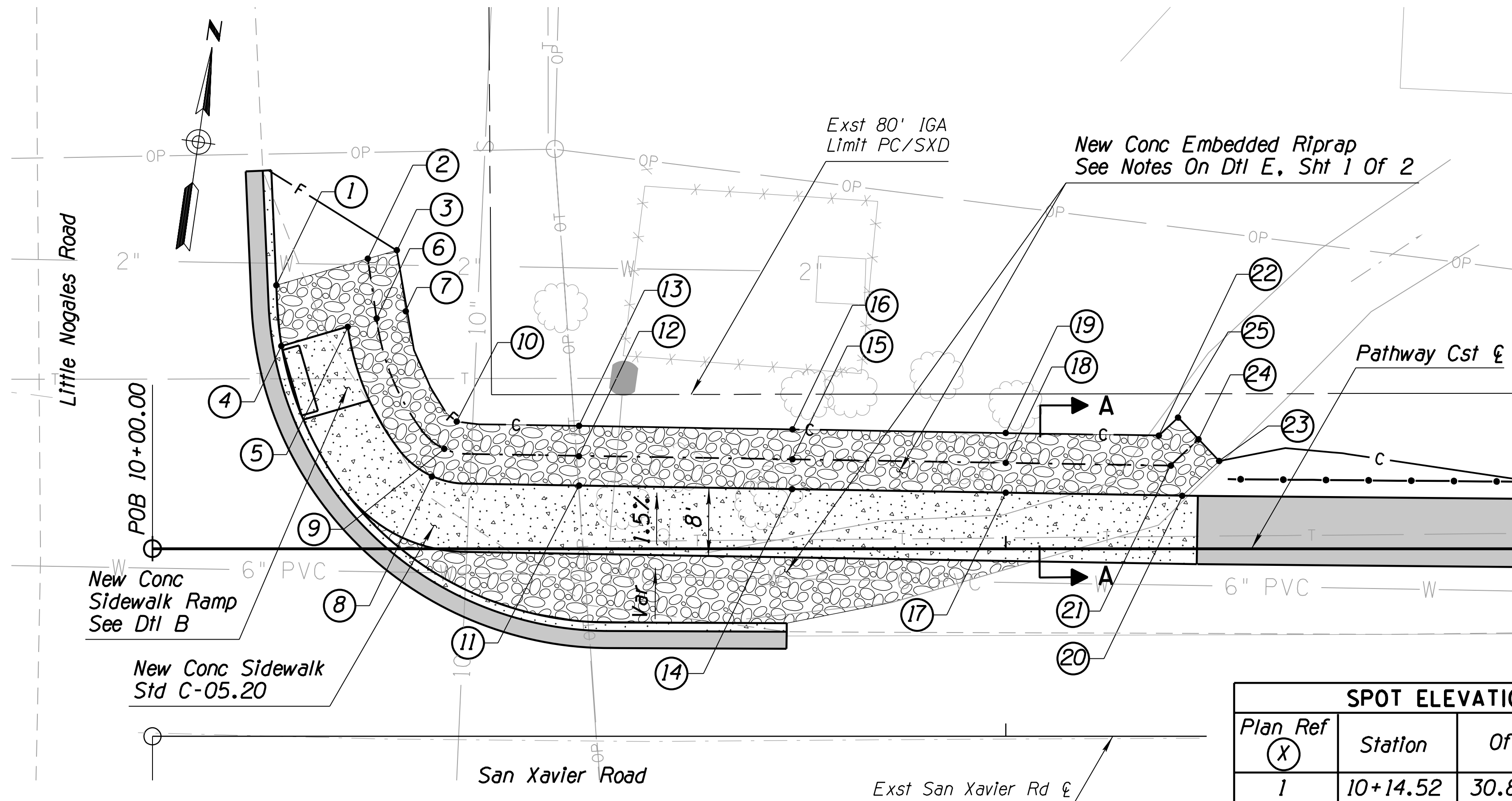
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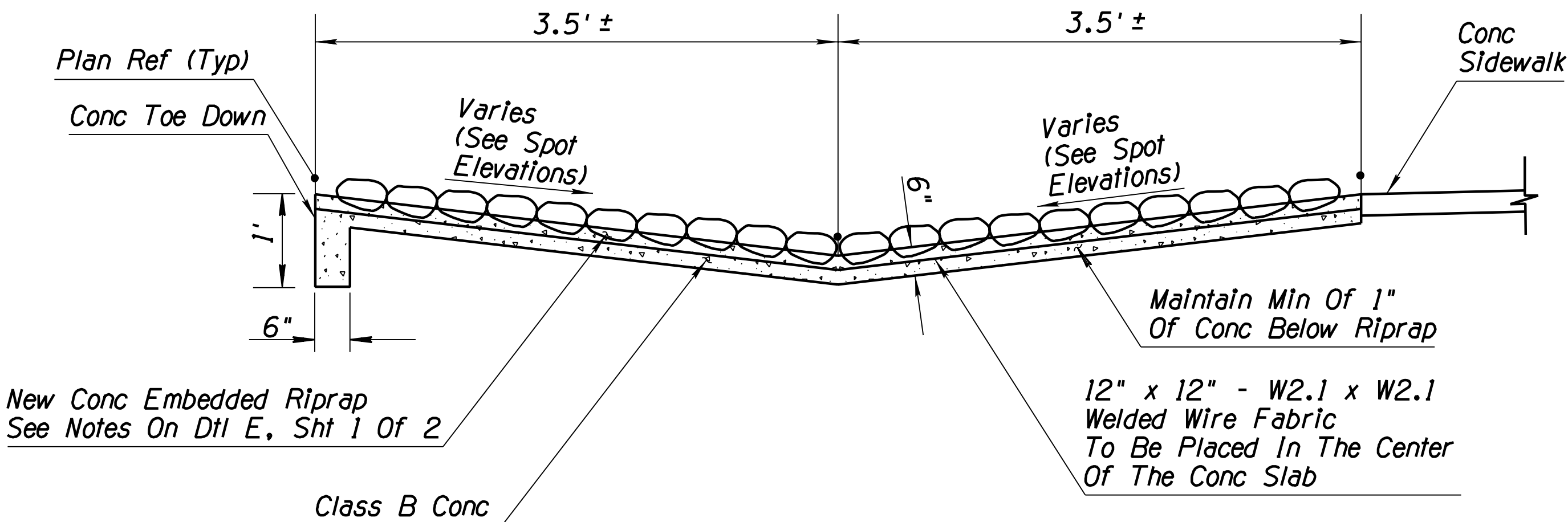
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

DETAIL SHEET

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 PM ITO	ITO-0(204)T	7	44	
STRUCTURE NO.	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19						DWG No. G-4.03
	TRACS NO. SL698 01C		ADOT				____ OF ____



PLAN VIEW
1"=10'



SECTION A-A
NTS

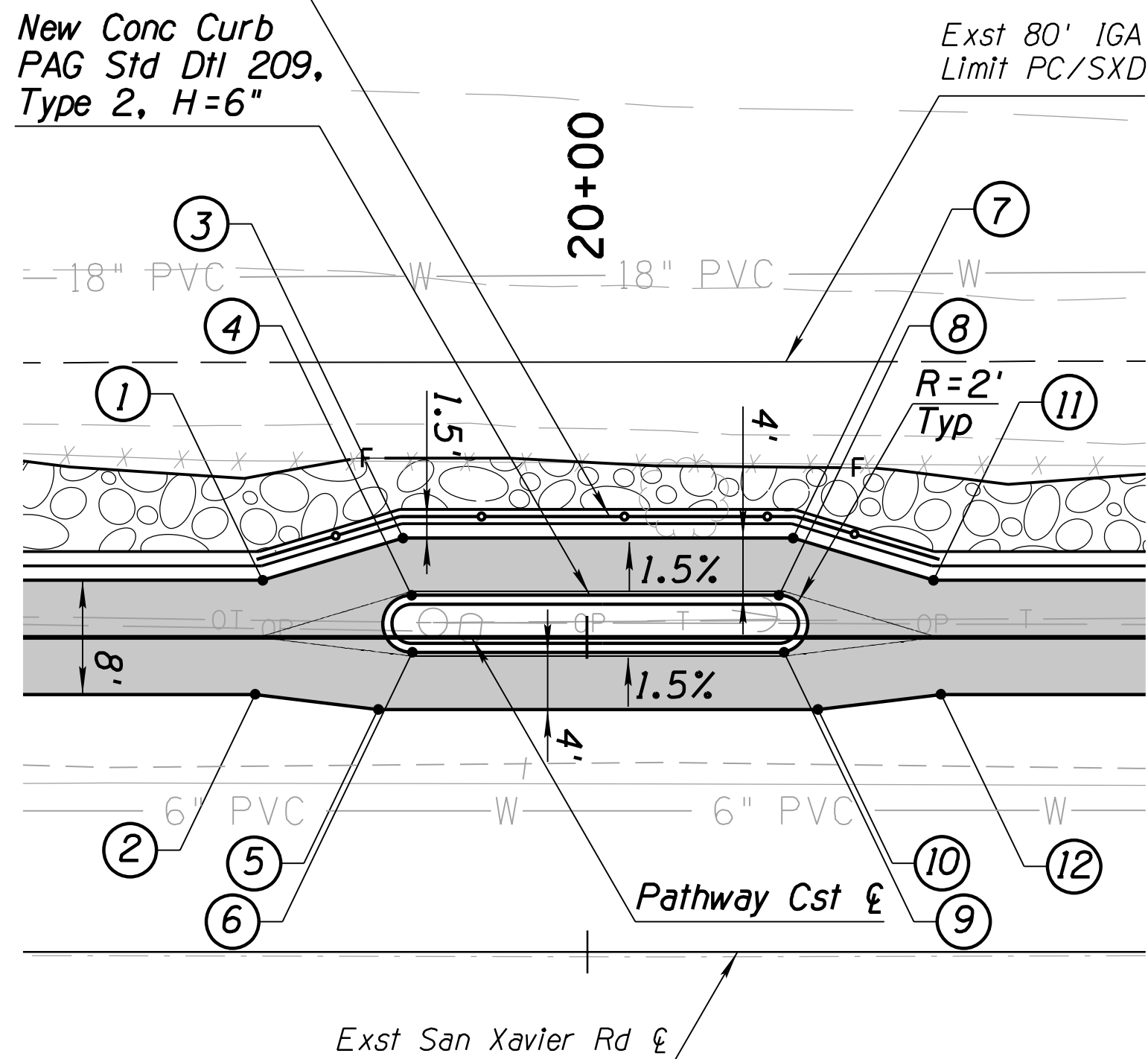
- NOTES:
- All stations and offsets are referenced from Pathway Cst £.
 - See Sheet 1 of 2 for additional notes.

DETAIL E

RIPRAP DETAILS SHEET 2 OF 2

SPOT ELEVATION TABLE			
Plan Ref (X)	Station	Offset	Elevation
1	10+14.52	30.87' Lt	2517.54
2	10+25.23	33.99' Lt	2517.04
3	10+28.62	34.98' Lt	2517.06
4	10+15.14	23.76' Lt	2517.52
5	10+22.89	26.02' Lt	2517.40
6	10+26.28	26.99' Lt	2517.03
7	10+29.69	27.82' Lt	2516.80
8	10+32.74	8.45' Lt	2517.20
9	10+34.20	11.69' Lt	2517.00
10	10+35.66	14.90' Lt	2516.85
11	10+50.00	7.39' Lt	2517.08
12	10+50.00	10.85' Lt	2516.90
13	10+50.00	14.40' Lt	2517.39
14	10+75.00	6.97' Lt	2516.98
15	10+75.00	10.47' Lt	2516.80
16	10+75.00	13.98' Lt	2518.09
17	11+00.00	6.55' Lt	2516.88
18	11+00.00	10.05' Lt	2516.65
19	11+00.00	13.56' Lt	2518.13
20	11+20.67	6.21' Lt	2517.13
21	11+19.35	9.73' Lt	2516.50
22	11+17.95	13.26' Lt	2516.74
23	11+25.00	10.27' Lt	2516.65
24	11+22.59	12.82' Lt	2516.40
25	11+20.20	15.37' Lt	2516.56

Sta 19+77 to Sta 20+24
New Handrail
PAG Std Dtl 105,
Standard Lower Rail
Location, L=49'



PLAN VIEW
1"=10'

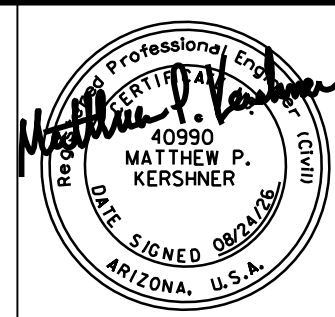
CURB ISLAND STAKING TABLE			
Plan Ref (X)	Station	Offset	Elevation
1	19+77.31	4.00' Lt	-
2	19+76.78	4.00' Rt	-
3	19+87.14	7.00' Lt	-
4	19+87.73	3.00' Lt	2516.26
5	19+85.40	5.00' Rt	-
6	19+87.78	1.00' Rt	2516.32
7	20+14.43	7.00' Lt	-
8	20+13.44	3.00' Lt	2516.16
9	20+13.46	1.00' Rt	2516.23
10	20+16.17	5.00' Rt	-
11	20+24.26	4.00' Lt	-
12	20+24.79	4.00' Rt	-

NOTES:

- All stations and offsets are referenced from Pathway Cst £.
- Staking elevations are located at top of pavement at face of curb.
- Refer to pathway profile to determine elevations not shown in the Curb Island Staking Table.

DETAIL F

PAG STD DTL 209 CURB AND ISLAND STAKING



	NAME	DATE
DESIGN	M KERSHNER	08/26
DRAWN	M KERSHNER	08/26
CHECKED	C VALENZUELA	08/26

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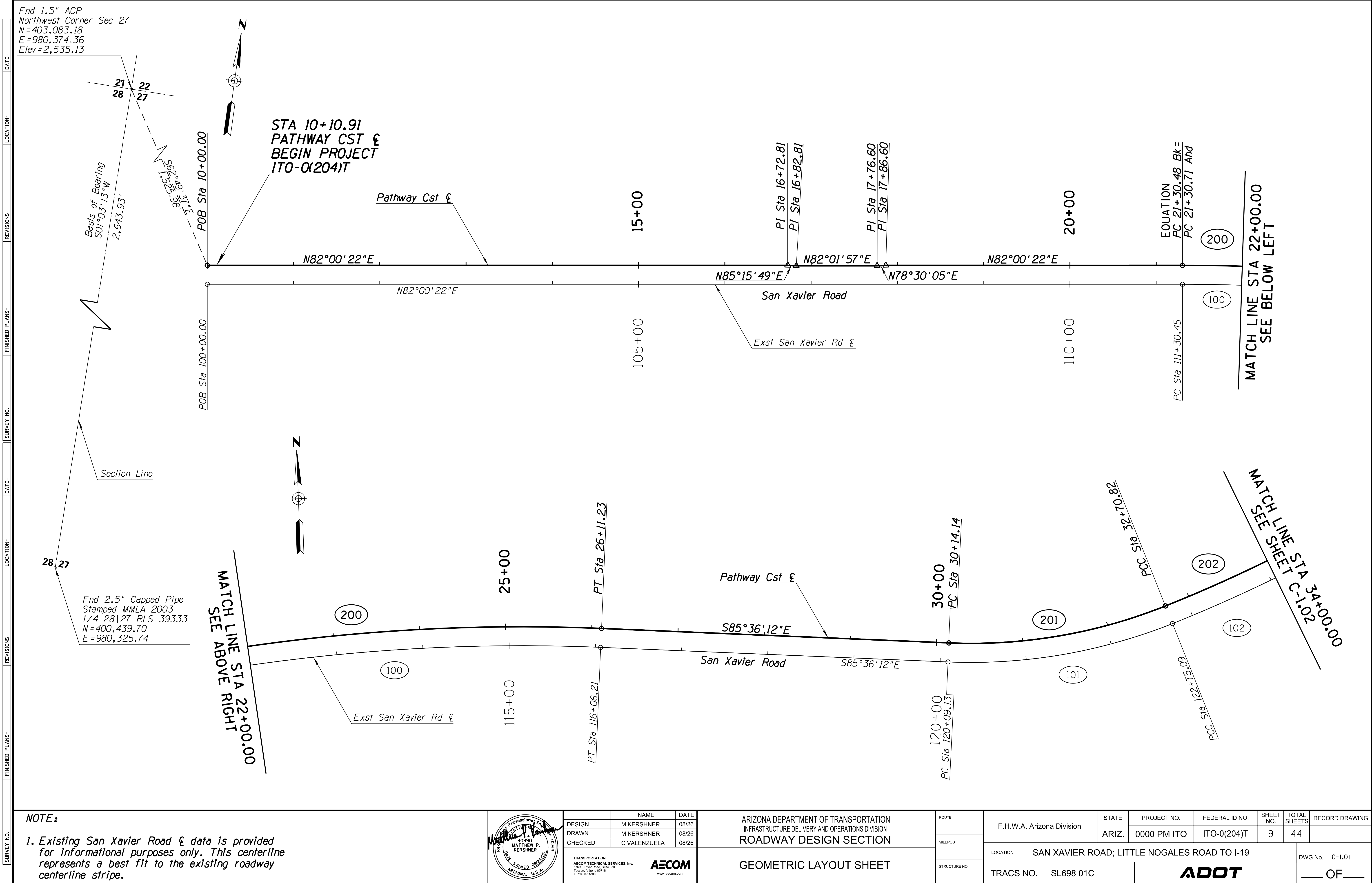
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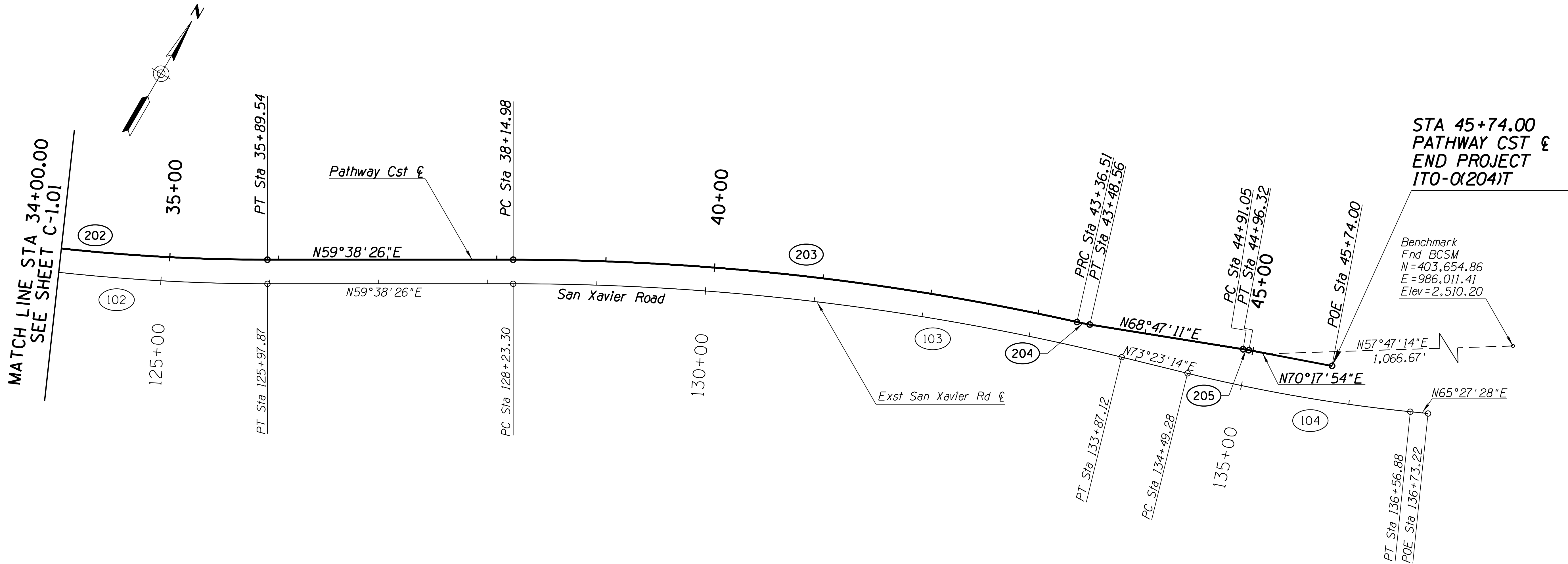
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

DETAIL SHEET

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST	ARIZ.	0000 PM ITO	ITO-0(204)T	8	44		
STRUCTURE NO.	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19						DWG No. G-4.04
TRACS NO.	SL698 01C						OF

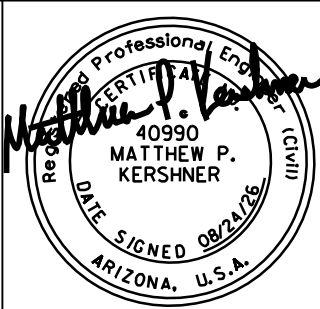
ADOT





NOTE:

1. Existing San Xavier Road & data is provided for informational purposes only. This centerline represents a best fit to the existing roadway centerline stripe.



	NAME	DATE
DESIGN	M KERSHNER	08/26
DRAWN	M KERSHNER	08/26
CHECKED	C VALENZUELA	08/26

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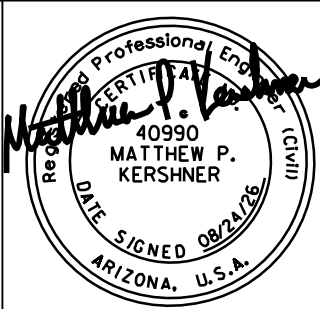
GEOMETRIC LAYOUT SHEET

ROUTE	LOCATION	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST	SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19		0000 PM ITO	ITO-0(204)T	10	44	
STRUCTURE NO.	TRACS NO. SL698 01C		ADOT		DWG No. C-1.02 OF		

GEOMETRIC DATA TABLE														
Roadway	Curve No.	Point Description	Station	Bearing	Distance	Northing	Easting	Curve Data					Superelevation Data	
								Curvature	Radius	Delta	Length	Tangent	Superelevation	Runoff
San Xavier Road		POB	100+00.00			402,364.51	981,734.98							
				N 82°00' 22" E	1,130.45'									
	100	PC	111+30.45			402,521.71	982,854.44							
		PI	113+69.26			402,554.92	983,090.94	2°36' 16"	2,200.00'	12°23' 26" Rt	475.77'	238.81'	N/A	N/A
		PT	116+06.21			402,536.62	983,329.05							
				S 85°36' 12" E	402.91'									
	101	PC	120+09.13			402,505.73	983,730.77							
		PI	121+44.12			402,495.38	983,865.37	9°05' 40"	630.00'	24°11' 18" Lt	265.96'	134.99'	N/A	N/A
		PCC	122+75.09			402,541.09	983,992.39							
	102	PI	124+36.94			402,595.89	984,144.67	3°16' 27"	1,750.00'	10°34' 04" Lt	322.78'	161.85'	N/A	N/A
		PT	125+97.87			402,677.69	984,284.33							
				N 59°38' 26" E	225.44'									
	103	PC	128+23.30			402,791.63	984,478.85							
		PI	131+06.57			402,934.80	984,723.28	2°26' 17"	2,350.00'	13°44' 48" Rt	563.82'	283.27'	N/A	N/A
		PT	133+87.12			403,015.79	984,994.72							
				N 73°23' 14" E	62.16'									
	104	PC	134+49.28			403,033.56	985,054.29							
		PI	135+53.25			403,063.28	985,153.91	3°49' 11"	1,500.00'	7°55' 47" Lt	207.60'	103.96'	N/A	N/A
		PT	136+56.88			403,106.47	985,248.49							
Pathway				N 65°27' 28" E	16.34'									
		POE	136+73.22			403,113.26	985,263.35							
		POB	10+00.00			402,386.29	981,731.92							
				N 82°00' 22" E	672.81'									
		PI	16+72.81			402,479.86	982,398.19							
				N 85°15' 49" E	10.00'									
		PI	16+82.81			402,480.68	982,408.15							
				N 82°01' 57" E	93.80'									
		PI	17+76.60			402,493.68	982,501.04							
				N 78°30' 05" E	10.00'									
		PI	17+86.60			402,495.68	982,510.84							
				N 82°00' 22" E	343.88'									

NOTE:

1. Existing San Xavier Road & data is provided for informational purposes only. This centerline represents a best fit to the existing roadway centerline stripe.



	NAME	DATE
DESIGN	M KERSHNER	08/26
DRAWN	M KERSHNER	08/26
CHECKED	C VALENZUELA	08/26

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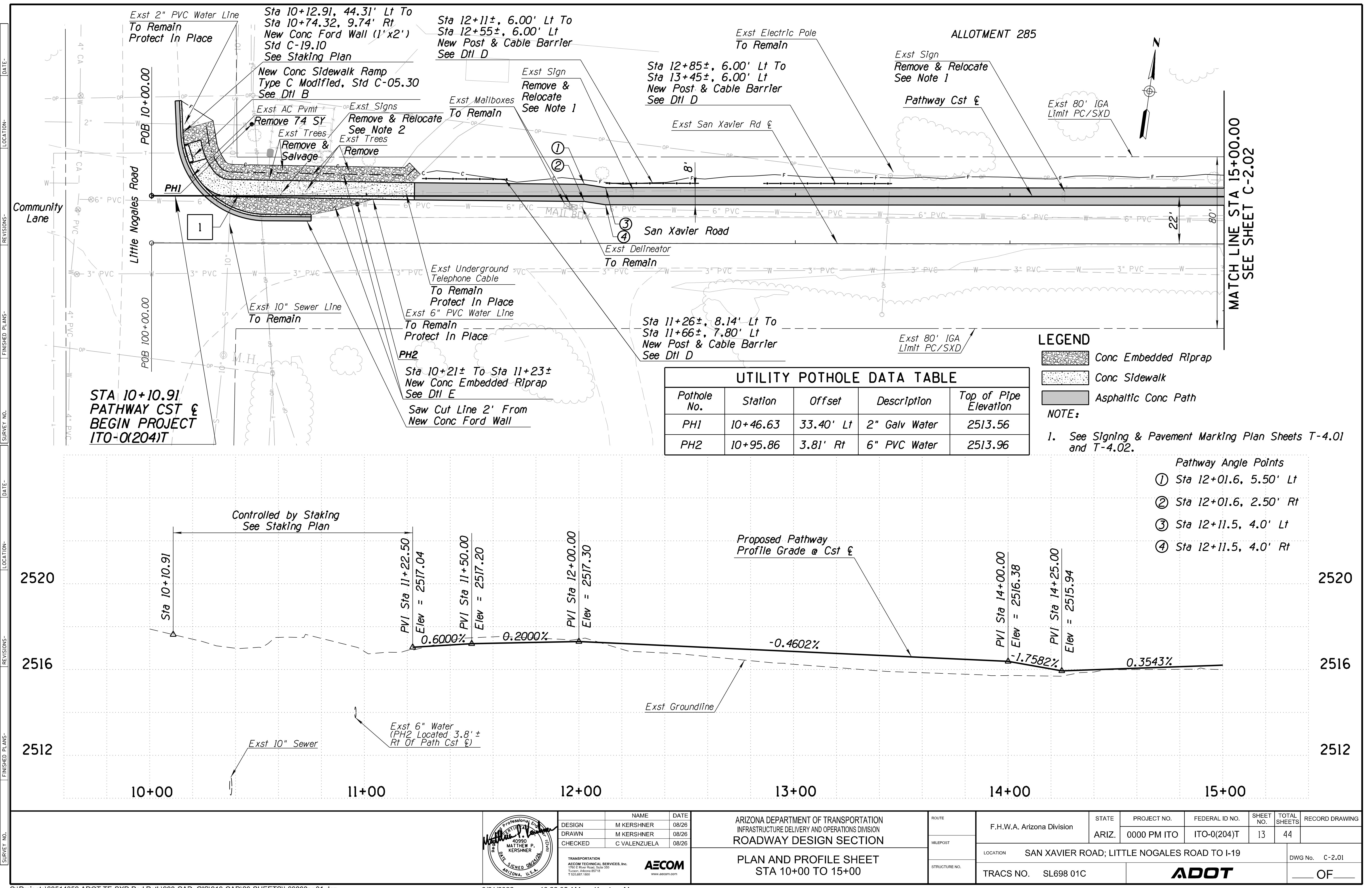
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INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

GEOMETRIC DATA SHEET

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 PM ITO	ITO-0(204)T	11	44	
		LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19					
STRUCTURE NO.	TRACS NO. SL698 01C		ADOT				___ OF ___

GEOMETRIC DATA TABLE														
Roadway	Curve No.	Point Description	Station	Bearing	Distance	Northing	Easting	Curve Data					Superelevation Data	
								Curvature	Radius	Delta	Length	Tangent	Superelevation	Runoff
Pathway	200	PC	21+30.48 Bk/21+30.71 Ahd			402,543.50	982,851.38							
		PI	23+71.91			402,577.04	983,090.24	2°34'43"	2,222.00'	12°23'26" Rt	480.52'	241.20'	N/A	N/A
		PT	26+11.23			402,558.55	983,330.73							
					S 85°36'12" E	402.91'								
	201	PC	30+14.14			402,527.66	983,732.46							
		PI	31+44.42			402,517.68	983,862.35	9°25'25"	608.00'	24°11'18" Lt	256.68'	130.28'	N/A	N/A
		PCC	32+70.82			402,561.79	983,984.94							
	202	PI	34+30.63			402,615.90	984,135.31	3°18'57"	1,728.00'	10°34'04" Lt	318.72'	159.81'	N/A	N/A
		PT	35+89.54			402,696.67	984,273.21							
					N 59°38'26" E	225.44'								
	203	PC	38+14.98			402,810.61	984,467.73							
		PI	40+76.80			402,942.94	984,693.65	2°24'56"	2,372.00'	12°35'51" Rt	521.53'	261.82'	N/A	N/A
		PRC	43+36.51			403,022.81	984,942.99							
	204	PI	43+42.53			403,024.65	984,948.73	28°38'52"	200.00'	3°27'07" Lt	12.05'	6.03'	N/A	N/A
		PT	43+48.56			403,026.83	984,954.35							
					N 68°47'11" E	142.49'								
	205	PC	44+91.05			403,078.39	985,087.18							
		PI	44+93.68			403,079.35	985,089.64	28°28'52"	200.00'	1°30'44" Rt	5.28'	2.64'	N/A	N/A
		PT	44+96.32			403,080.24	985,092.13							
					N 70°17'54" E	17.85'								
		POE	45+14.17			403,086.25	985,108.93							



UTILITY POTHOLE DATA TABLE				
Pothole No.	Station	Offset	Description	Top of Pipe Elevation
PH1	10+46.63	33.40' Lt	2" Galv Water	2513.56
PH2	10+95.86	3.81' Rt	6" PVC Water	2513.96

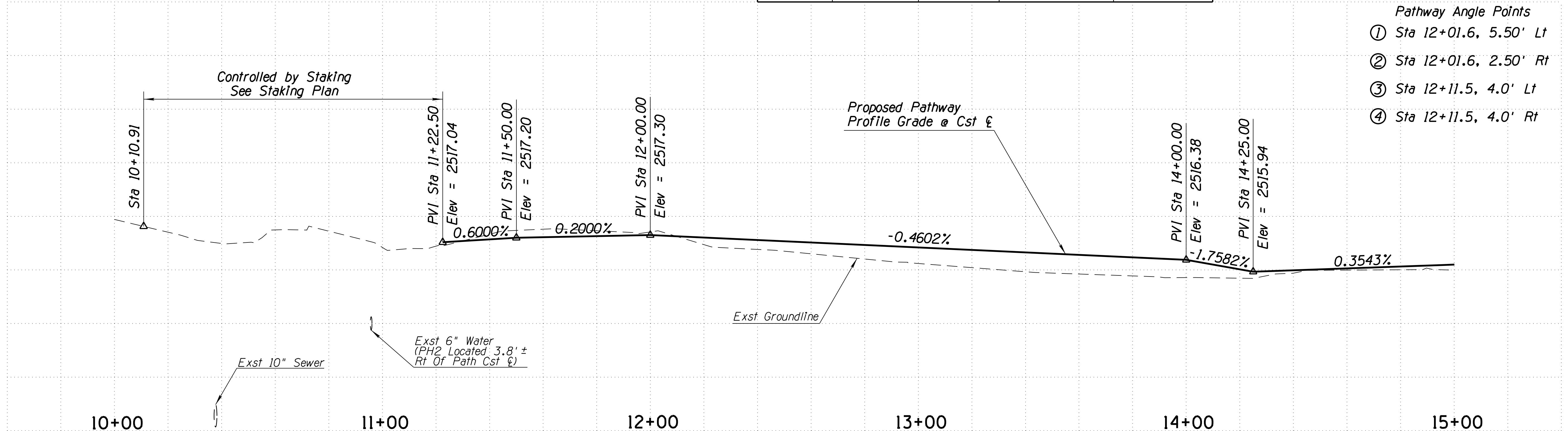
LEGEND

- Conc Embedded Riprap
- Conc Sidewalk
- Asphaltic Conc Path

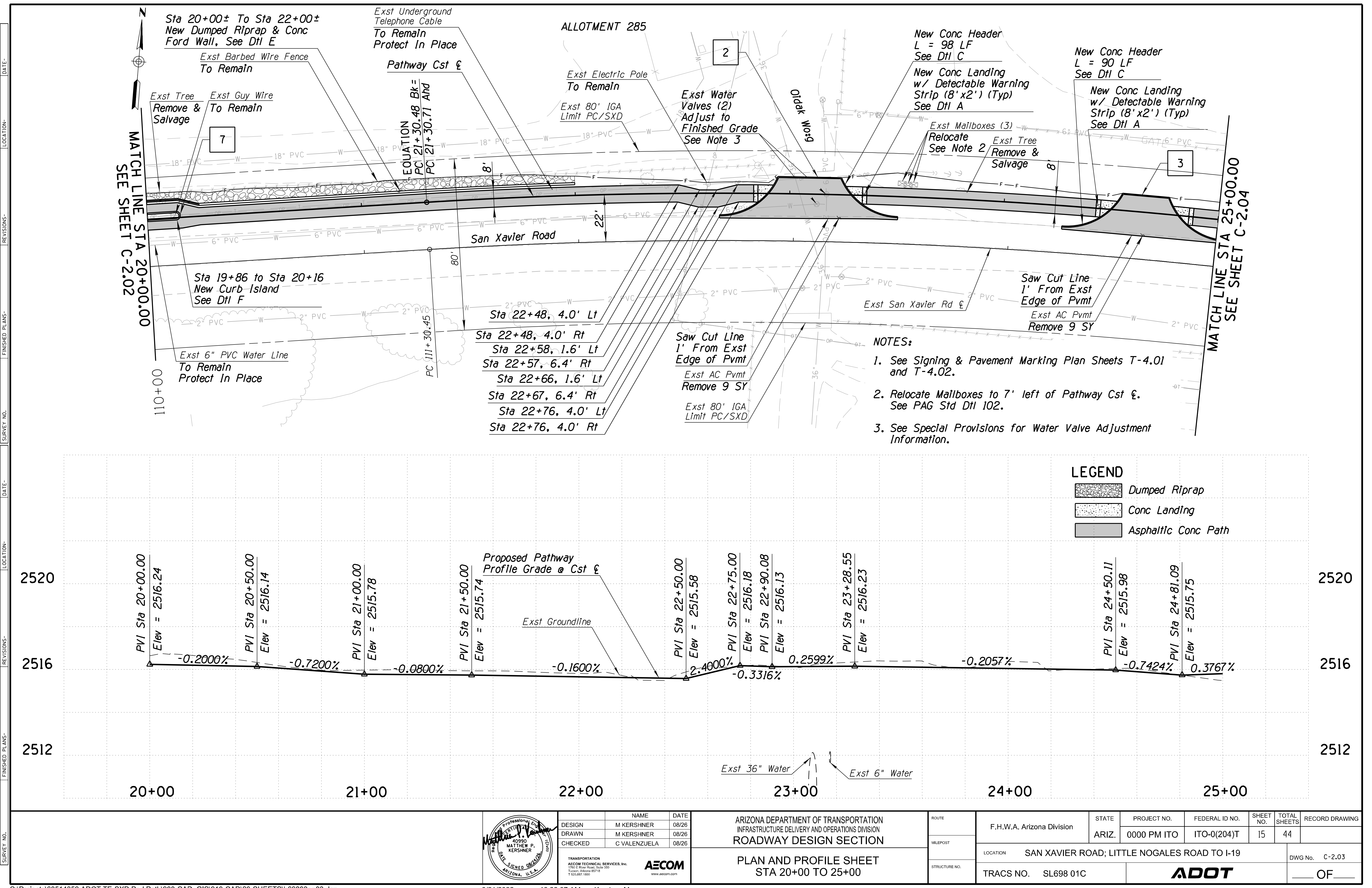
NOTE:

1. See Signing & Pavement Marking Plan Sheets T-4.01 and T-4.02.

- Pathway Angle Points**
- ① Sta 12+01.6, 5.50' Lt
 - ② Sta 12+01.6, 2.50' Rt
 - ③ Sta 12+11.5, 4.0' Lt
 - ④ Sta 12+11.5, 4.0' Rt

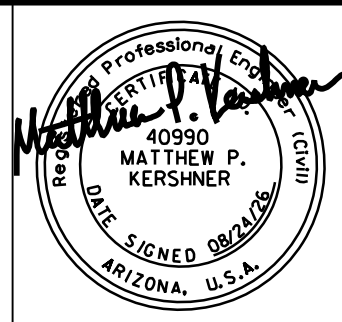
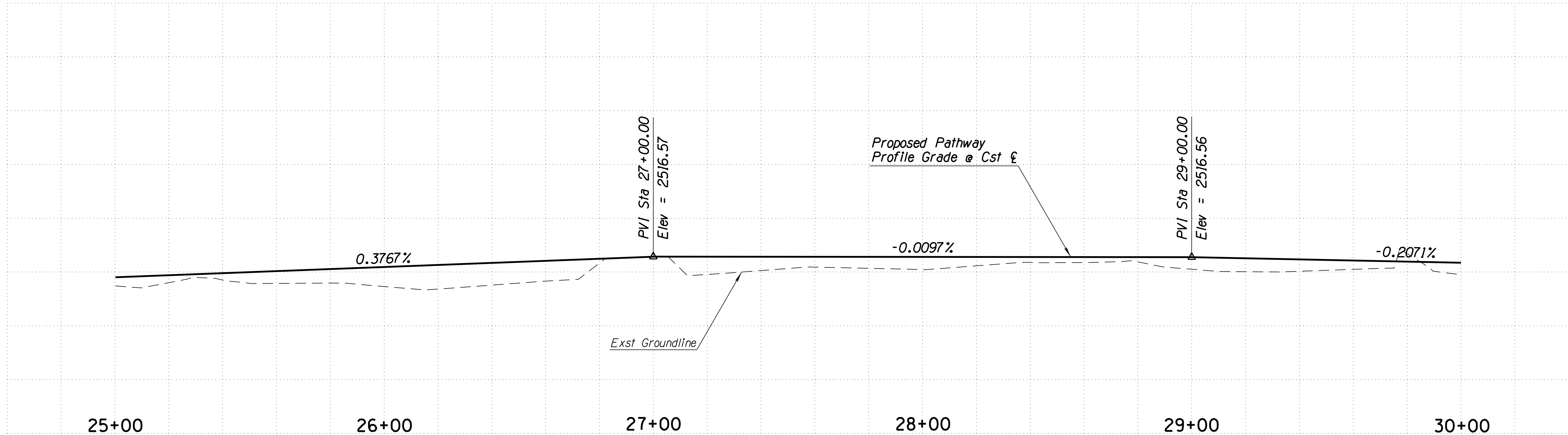
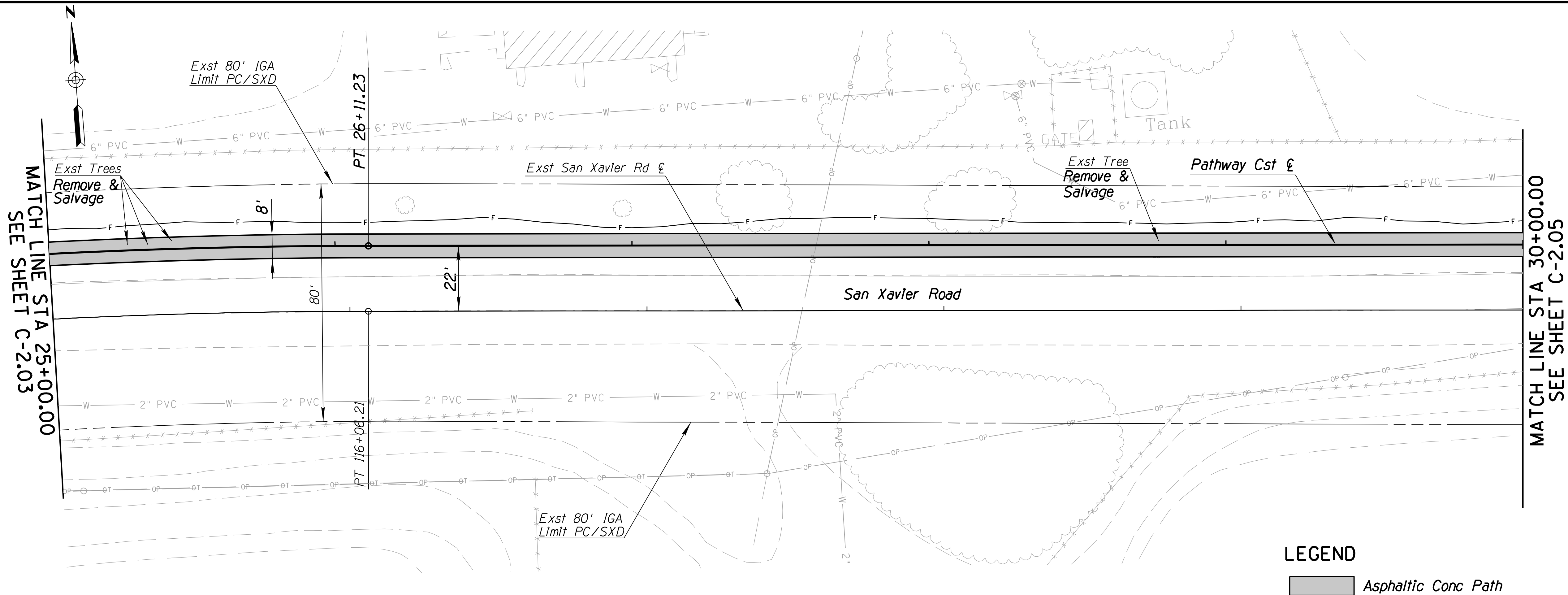


	DESIGN	M KERSHNER	08/26	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SECTION	ROUTE	F.H.W.A. Arizona Division	STATE	ARIZ.	PROJECT NO.	0000 PM ITO	FEDERAL ID NO.	ITO-0(204)T	SHEET NO.	13	TOTAL SHEETS	44	RECORD DRAWING		
	DRAWN	M KERSHNER	08/26		TRANSPORTATION AECOM TECHNICAL SERVICES, INC. 1700 E River Road, Suite 300 Tucson, Arizona 85718 T 520.887.1800	MILEPOST	LOCATION								SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19		DWG No.	C-2.01	
	CHECKED	C VALENZUELA	08/26				TRACS NO.								SL698 01C				
				PLAN AND PROFILE SHEET STA 10+00 TO 15+00														OF	



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

	NAME		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SECTION	ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	DESIGN	M KERSHNER	08/26		MILEPOST			0000 PM ITO	ITO-0(204)T	15	44	
	DRAWN	M KERSHNER	08/26		TRANSPORTATION AECOM TECHNICAL SERVICES, Inc. 1700 E River Road, Suite 300 Tucson, Arizona 85718 T 520.887.1800 www.aecom.com	STRUCTURE NO.	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19					
	CHECKED	C VALENZUELA	08/26	PLAN AND PROFILE SHEET STA 20+00 TO 25+00			TRACS NO. SL698 01C		ADOT		OF	



	NAME	DATE
DESIGN	M KERSHNER	08/26
DRAWN	M KERSHNER	08/26
CHECKED	C VALENZUELA	08/26

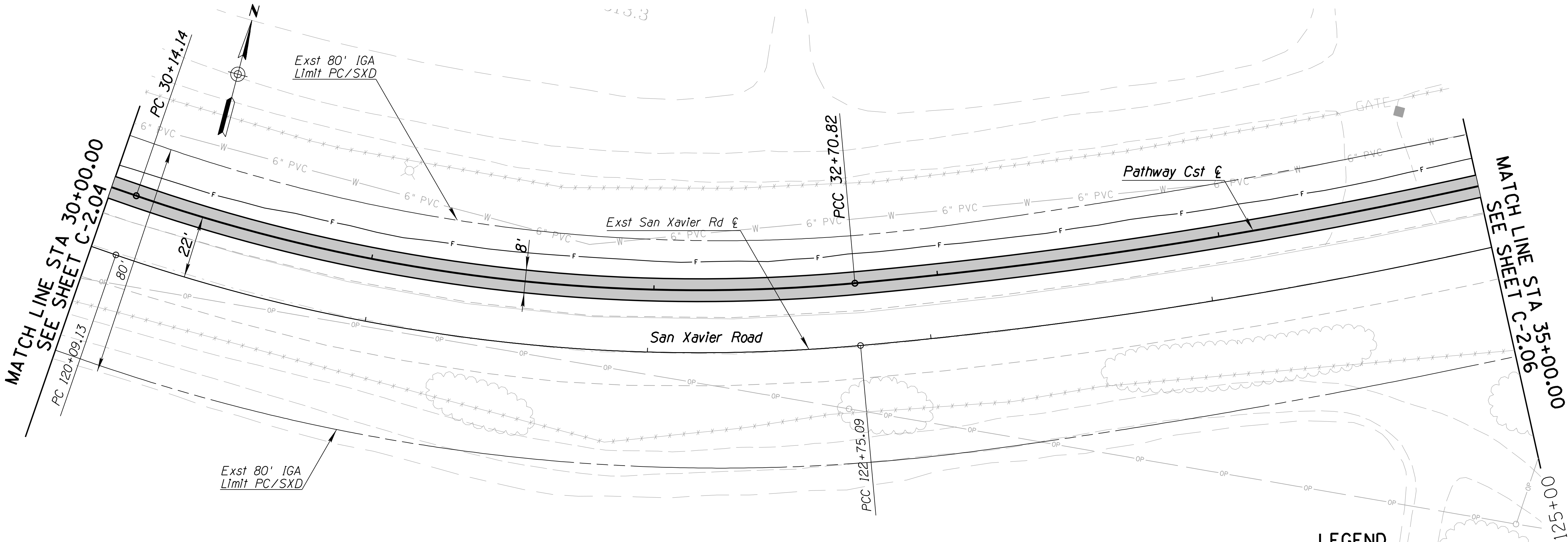
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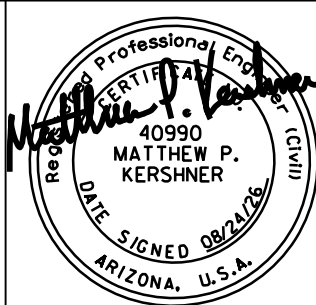
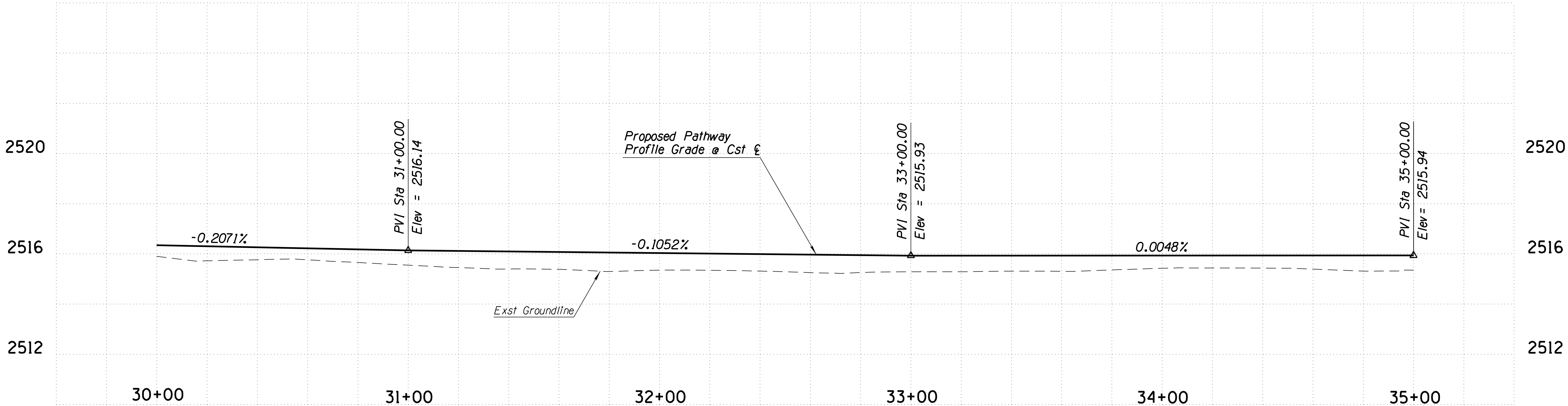
PLAN AND PROFILE SHEET
STA 25+00 TO 30+00

ROUTE	F.H.W.A. Arizona Division	STATE	ARIZ.	PROJECT NO.	0000 PM ITO	FEDERAL ID NO.	ITO-0(204)T	SHEET NO.	16	TOTAL SHEETS	44	RECORD DRAWING
MILEPOST	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19											DWG No. C-2.04
STRUCTURE NO.	TRACS NO. SL698 01C											OF



LEGEND

Asphaltic Conc Path



	NAME	DATE
DESIGN	M KERSHNER	08/26
DRAWN	M KERSHNER	08/26
CHECKED	C VALENZUELA	08/26

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ROADWAY DESIGN SECTION

PLAN AND PROFILE SHEET
STA 30+00 TO 35+00

ROUTE

MILEPOST

STRUCTURE NO.

F.H.W.A. Arizona Division

STATE

PROJECT NO.

FEDERAL ID NO.

SHEET NO.

TOTAL SHEETS

RECORD DRAWING

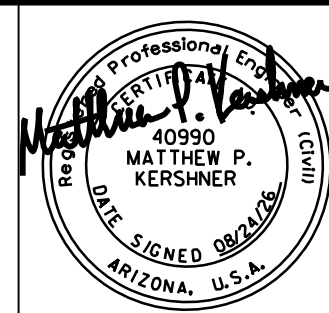
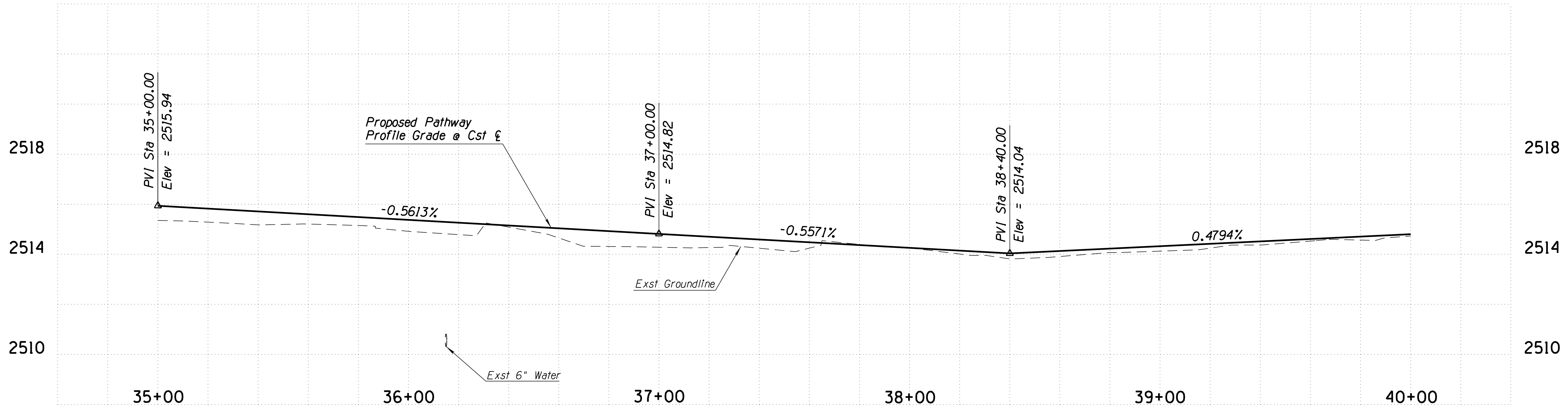
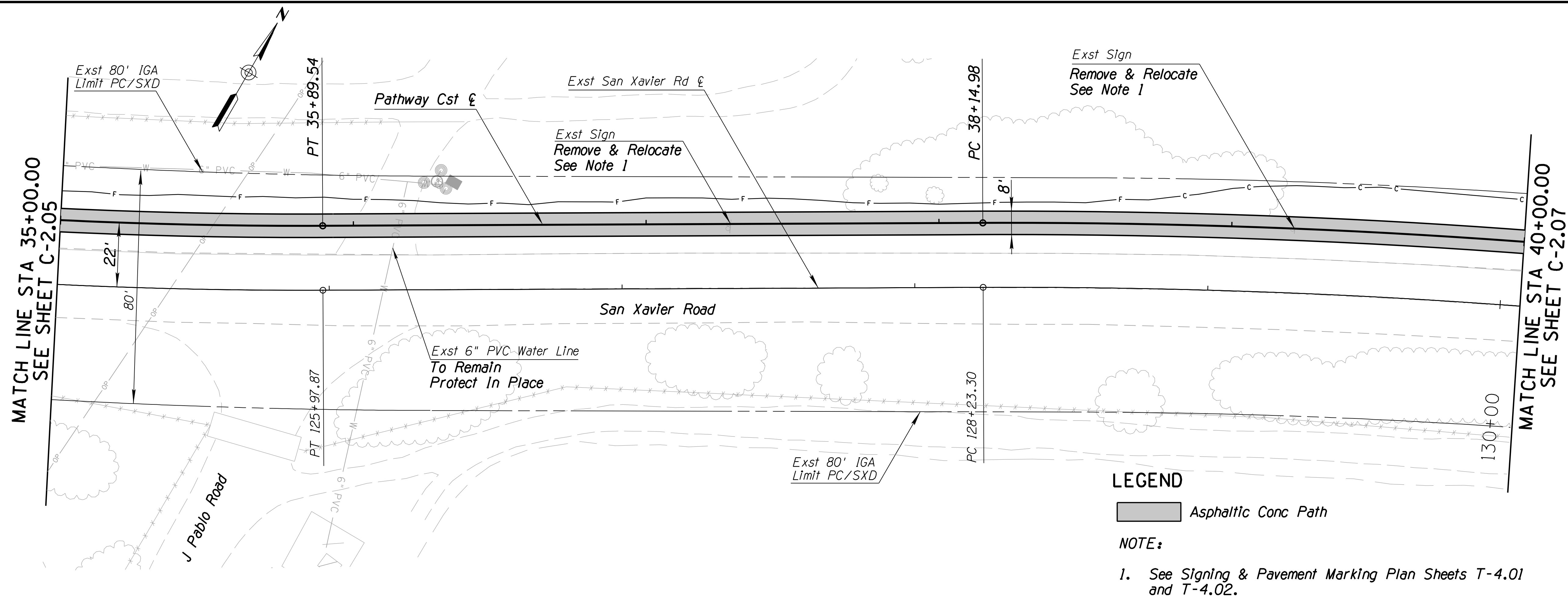
LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19

TRACS NO. SL698 01C

ADOT

DWG No. C-2.05

OF



	NAME	DATE
DESIGN	M KERSHNER	08/26
DRAWN	M KERSHNER	08/26
CHECKED	C VALENZUELA	08/26

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Tucson, Arizona 85718

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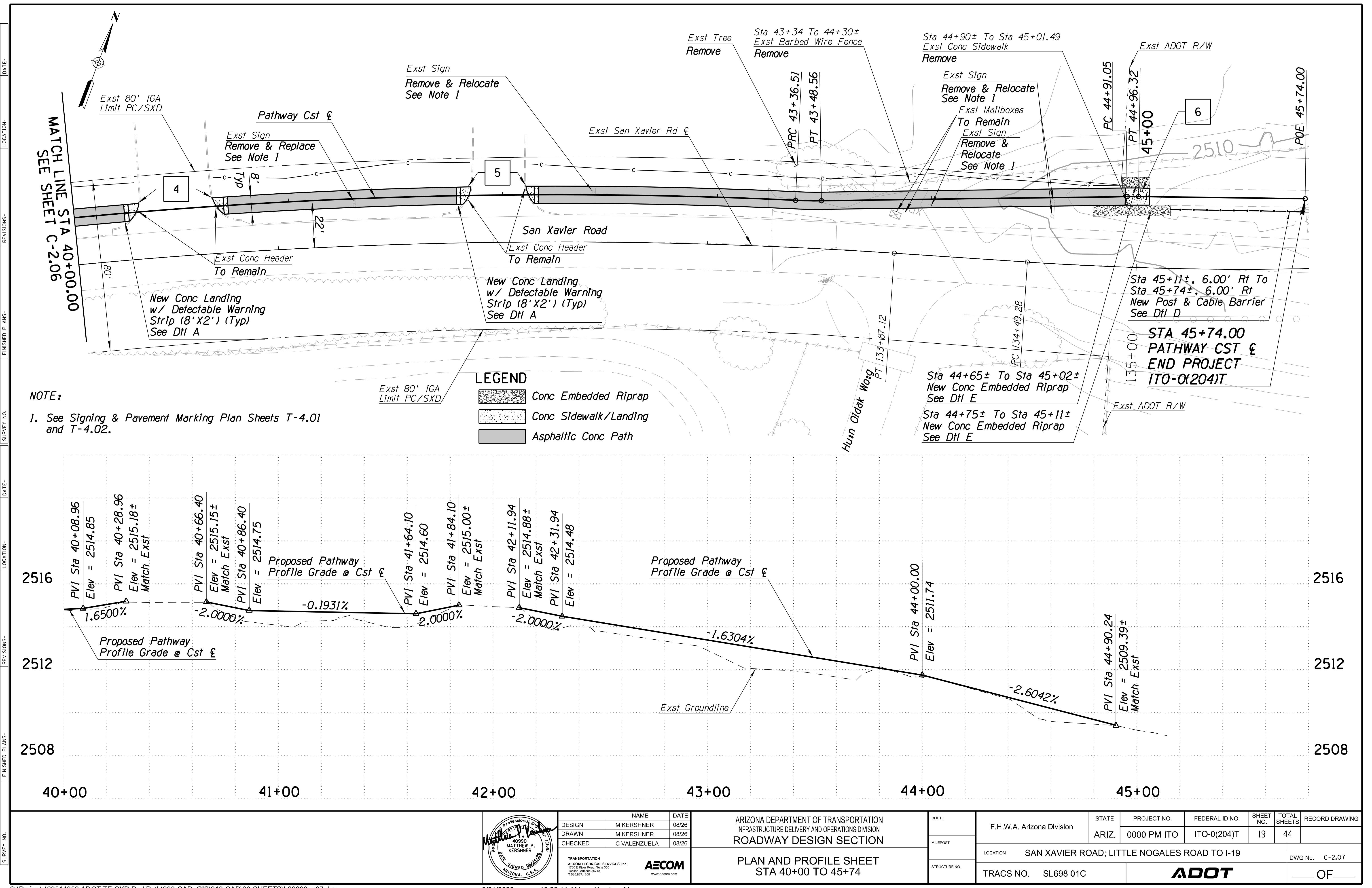
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INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

PLAN AND PROFILE SHEET
STA 35+00 TO 40+00

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST	ARIZ.	0000 PM ITO	ITO-0(204)T	18	44	
STRUCTURE NO.	SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19					DWG No. C-2.06
TRACS NO. SL698 01C		ADOT			OF	



MATCH LINE STA 40+00.00
SEE SHEET C-2.06

NOTE:
1. See Signing & Pavement Marking Plan Sheets T-4.01 and T-4.02.

LEGEND

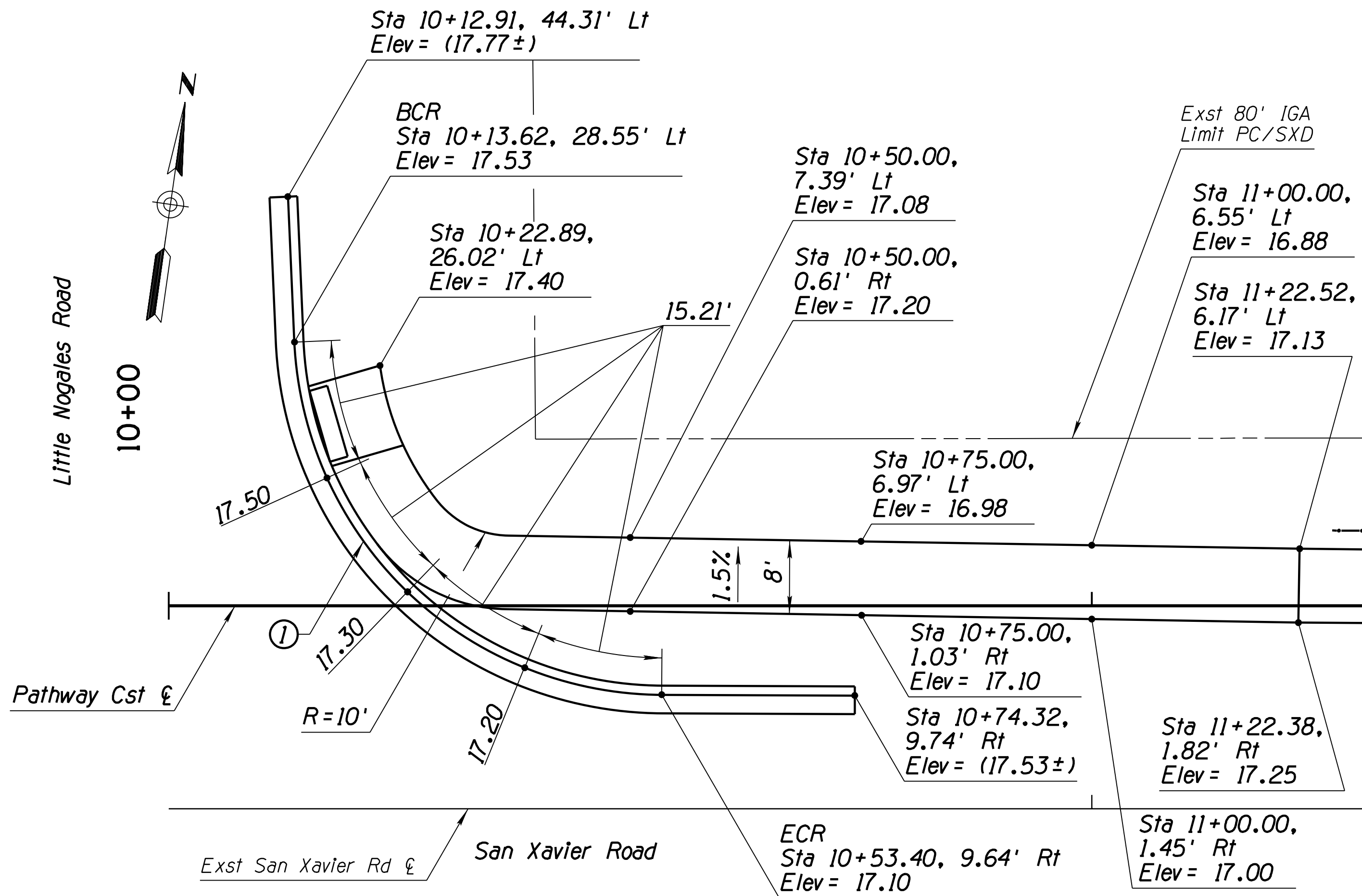
- Conc Embedded Riprap
- Conc Sidewalk/Landing
- Asphaltic Conc Path

DESIGN	NAME	DATE
DRAWN	M KERSHNER	08/26
CHECKED	C VALENZUELA	08/26

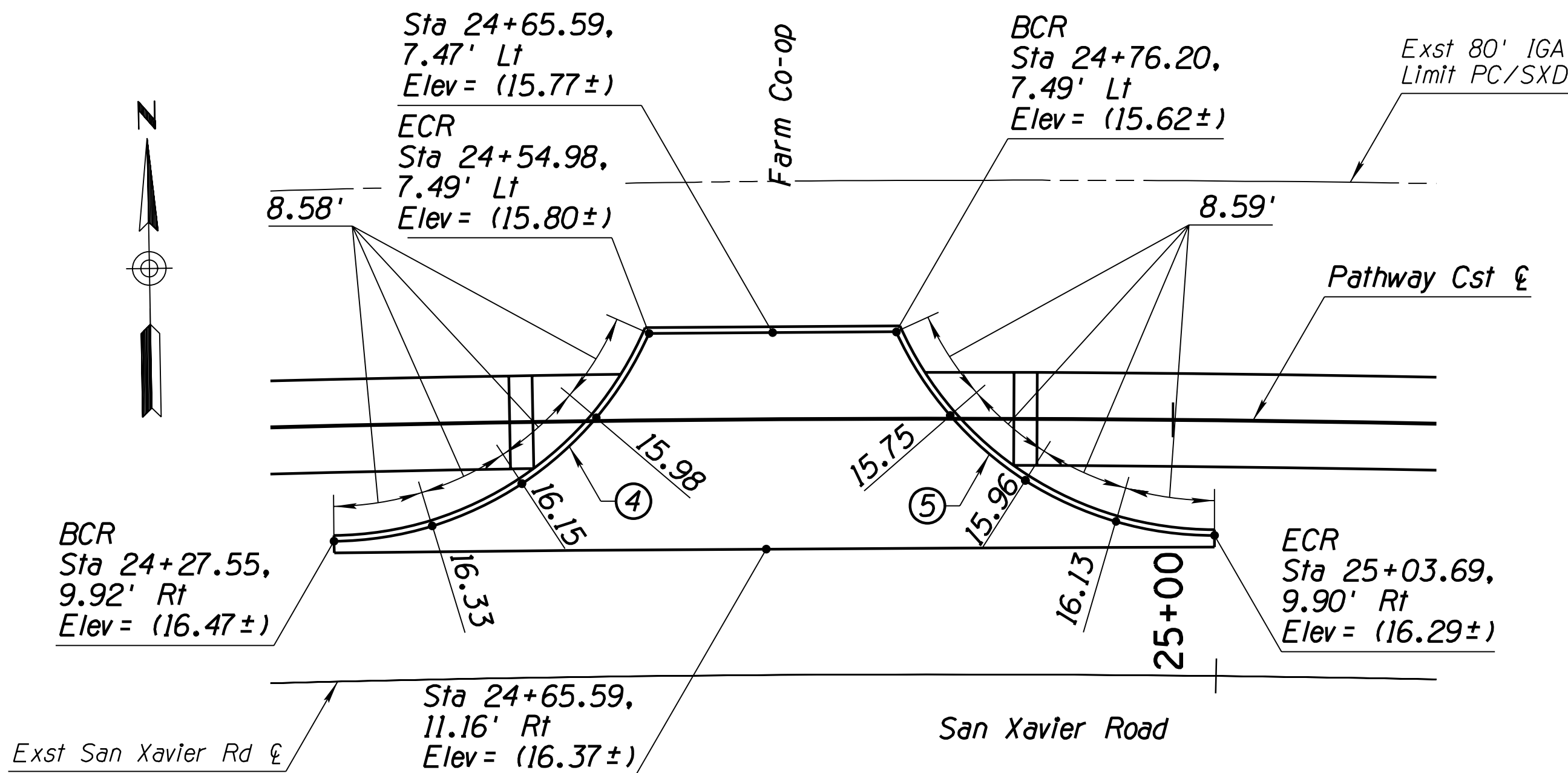
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

PLAN AND PROFILE SHEET
STA 40+00 TO 45+74

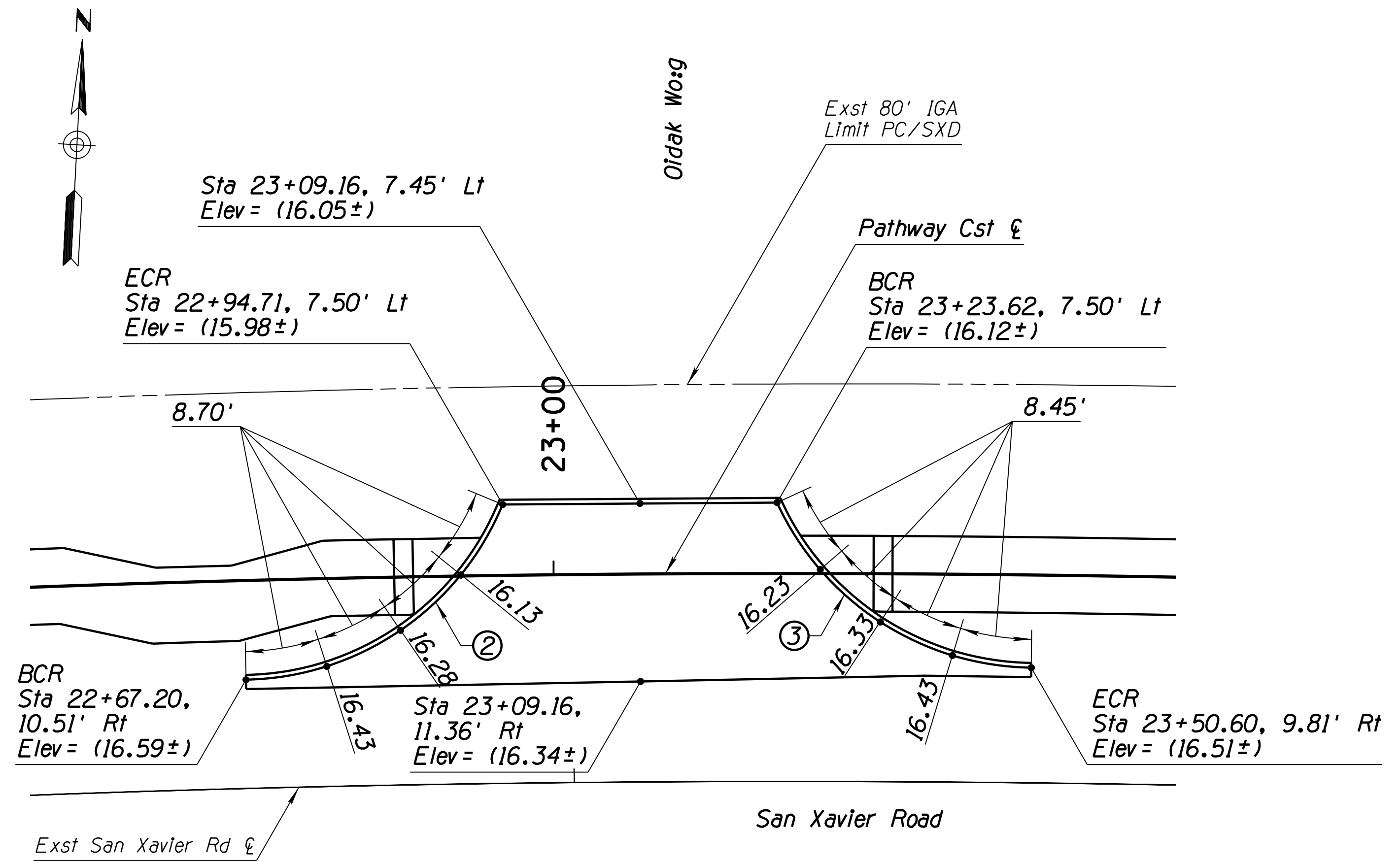
ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
			0000 PM ITO	ITO-0(204)T	19	44	
MILEPOST	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19						DWG No. C-2.07
STRUCTURE NO.	TRACS NO. SL698 01C		ADOT			___ OF ___	



CONCRETE FORD WALL & SIDEWALK STAKING AT
LITTLE NOGALES RD



CONCRETE HEADER STAKING AT
FARM CO-OP DRIVEWAY



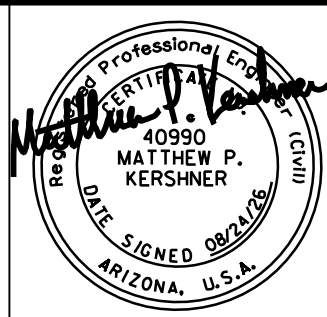
CONCRETE HEADER STAKING AT
OIDAK WO:G

CURVE DATA TABLE

(No)	Delta	Radius	Length	Tangent
1	87°09'45"	40.00'	60.85'	38.07'
2	66°25'30"	30.00'	34.78'	19.64'
3	64°34'18"	30.00'	33.81'	18.95'
4	65°33'49"	30.00'	34.33'	19.32'
5	65°37'20"	30.00'	34.36'	19.34'

NOTES:

- All stations and offsets are referenced from Pathway Cst &.
- Elevations along the concrete header and ford wall are provided at finished grade of pavement.
- Elevations denoted in parentheses refer to existing grade.
- Base elevation = 2500.00



	NAME	DATE
DESIGN	M KERSHNER	08/26
DRAWN	M KERSHNER	08/26
CHECKED	C VALENZUELA	08/26

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

STAKING PLAN

ROUTE	LOCATION	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
		ARIZ.	0000 PM ITO	ITO-0(204)T	20	44	
MILEPOST	SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19						
STRUCTURE NO.	DWG No. C-2.01						
	OF						

TRACS NO. SL698 01C

ADOT

DATE-

LOCATION-

REVISIONS-

FINISHED PLANS-

SURVEY NO.

DATE-

LOCATION-

REVISIONS-

FINISHED PLANS-

SURVEY NO.

TRAFFIC CONTROL NOTES

1. ADJUSTMENTS TO THE DETAILS OF THESE TRAFFIC CONTROL PLANS AND REQUIREMENTS MAY BE NECESSARY DUE TO CONSTRUCTION ACTIVITIES, AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE DEPARTMENT.
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 AT NO COST TO THE DEPARTMENT.
3. THE RETROREFLECTIVE SHEETING ON ALL CONSTRUCTION SIGNS SHALL MEET THE CRITERIA ESTABLISHED IN SECTION 1007 OF THE SPECIFICATIONS.
4. SIGNS SHALL BE MOUNTED ON SPRING STANDS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. FOR SIGNS INSTALLED ON EMBEDDED POSTS, SIGN MOUNTING HEIGHT IS A MINIMUM OF 7 FEET ALONG SAN XAVIER ROAD AS MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT. SIGNS ON SPRING STANDS SHALL BE MOUNTED AT THE HEIGHT RECOMMENDED BY THE SPRING STAND MANUFACTURER.
5. THE NEAREST EDGE OR CORNER OF A SIGN SHALL BE APPROXIMATELY 12 FEET FROM THE NEAREST EDGE OF PAVEMENT OR THREE FEET BEHIND GUARDRAIL FOR ALL SIGNS MOUNTED ON EMBEDDED POSTS.
6. FLAGS SHALL BE MOUNTED ON TOP OF ALL CONSTRUCTION SIGNS.
7. TYPE A FLASHING WARNING LIGHTS SHALL BE REQUIRED ON ALL NIGHT-TIME CONSTRUCTION SIGNS.
8. TYPE C STEADY-BURNING YELLOW LIGHTS SHALL BE MOUNTED ON EVERY BARRICADE.
9. CHANNELIZING DEVICES SHALL BE PLACED 40 FEET ON CENTER (O.C.) IN TAPERS AND 80 FEET O.C. ON TANGENTS AND GENTLE CURVES, EXCEPT AS OTHERWISE NOTED ON THE PLANS.
10. 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 COMPLETION OF CONSTRUCTION ACTIVITIES.
11. ALL CONSTRUCTION SIGNS SHALL HAVE BLACK LETTERS ON AN ORANGE BACKGROUND, EXCEPT AS OTHERWISE NOTED.
12. WHERE NO CLOSURE IS NECESSARY BUT WHERE THERE IS CONSTRUCTION ALONGSIDE A ROADWAY UNDER CONSTRUCTION, THE CONTRACTOR SHALL PLACE A 36"X36" "SHOULDER WORK AHEAD" SIGN AS DIRECTED BY THE ENGINEER TO ALERT THE PUBLIC TO THE CONSTRUCTION ACTIVITIES.
13. 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 BARRICADE IS EQUIVALENT OR GREATER THAN THE REFLECTIVE AREA OF THE TYPE II BARRICADE.
14. WHEN TRAFFIC CONTROL DEVICES ARE NOT IN USE, THEY SHALL BE MOVED AT LEAST 30 FEET FROM THE ROADWAY.
15. REFER TO THE ADOT TEMPORARY TRAFFIC CONTROL DESIGN GUIDELINES, 2025, FIGURE SA-12 TO SIGN WORK ZONES NEAR THE ROADWAY WHERE THE FINES DOUBLE FOR SPEEDING WHEN WORKERS ARE PRESENT.
16. THE CONTRACTOR SHALL SUPPLY A MINIMUM OF TWO PROGRAMMABLE MESSAGE BOARDS FOR THE DURATION OF THE PROJECT TO BE LOCATED AS DIRECTED BY THE ENGINEER.
17. THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC ON SAN XAVIER ROAD AND LITTLE NOGALES ROAD AT NIGHT, ON WEEKENDS, ON HOLIDAYS, AND AS DIRECTED BY THE ENGINEER.
18. A MINIMUM LANE WIDTH OF 11 FEET SHALL BE MAINTAINED ALONG SAN XAVIER ROAD AND LITTLE NOGALES ROAD AT ALL TIMES, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
19. ALL DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE.

ESTIMATED QUANTITIES FOR TRAFFIC CONTROL			
ITEM NO.	ITEM DESCRIPTION	UNITS	TOTAL
7016030	BARRICADE (TYPE II, VERT. PANEL, TUBULAR MARKER)	EACH-DAY	5,025
7016033	PORTABLE SIGN STANDS (SPRING TYPE)	EACH-DAY	1,560
7016035	WARNING LIGHTS (TYPE A)	EACH-DAY	1,560
7016037	WARNING LIGHTS (TYPE C)	EACH-DAY	5,025
7016051	TEMPORARY SIGN (LESS THAN 10 S.F.)	EACH-DAY	1,560
7016067	CHANGEABLE MESSAGE BOARD (CONTRACTOR FURNISHED)	EACH-DAY	240

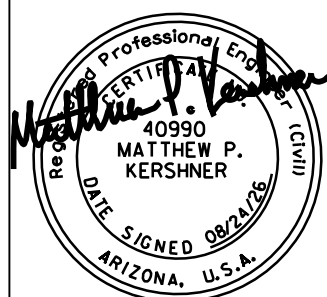
CONSTRUCTION PHASING

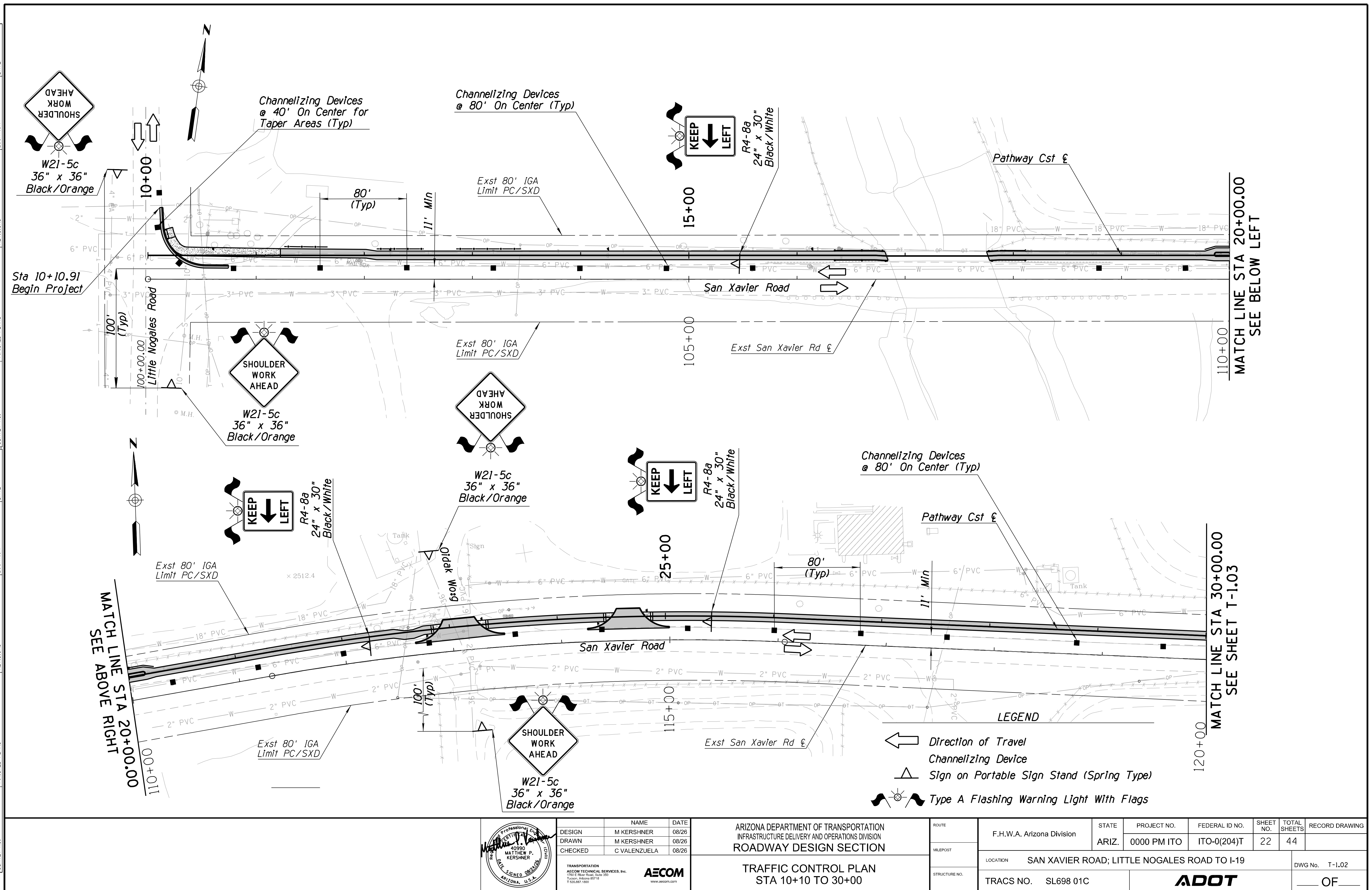
CONSTRUCTION PERIOD ANTICIPATED
TO BE 4 MONTHS (80 WORKING DAYS)
(INCLUDES 20 DAYS FOR SEEDING MAINTENANCE)

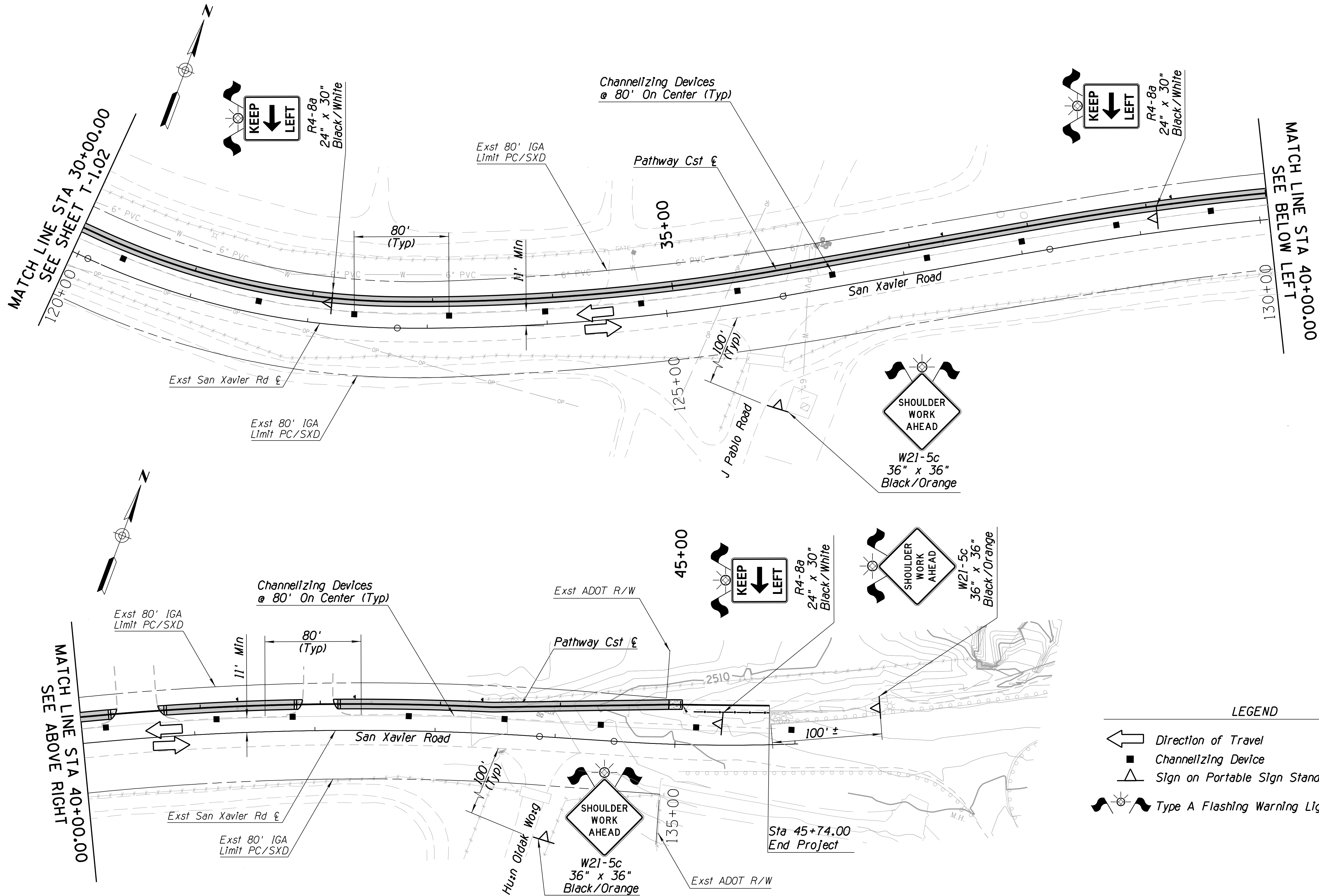
- INSTALL ADVANCE PROJECT SIGNING & WORK ZONE TRAFFIC CONTROL DEVICES (TO BE IN PLACE FOR 80 WORKING DAYS)
- INSTALL EROSION CONTROL ELEMENTS
- CLEAR & GRUB & REMOVE EXISTING OBSTRUCTIONS
- SAW CUT & REMOVE EXISTING ASPHALTIC PAVEMENT
- PERFORM EARTHWORK
- CONSTRUCT FORD WALLS, HEADER, SIDEWALK, RAMPS, PATHWAY, & TURNOUTS
- INSTALL RIPRAP, POST & CABLE BARRIER, HANDRAIL & PERMANENT SIGNING
- PLACE PERMANENT PAVEMENT MARKING (REFLECTORIZED PAINT)
- INSTALL LANDSCAPING
- PLACE SEEDING & GRANITE MULCH
- CLEAN UP

TRAFFIC CONTROL NOTES (CONT)

20. 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 AT NO COST TO THE DEPARTMENT. ALL TRAFFIC CONTROL PLANS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER BEFORE BEGINNING CONSTRUCTION.
21. REFERENCES: PART VI OF THE MUTCD, 2023 EDITION, AZ SUPPLEMENT TO THE MUTCD (2023) AND THE ADOT TEMPORARY TRAFFIC CONTROL DESIGN GUIDELINES, 2025.
22. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE FIRE STATION AT ALL TIMES.

	DESIGN	M KERSHNER	08/26	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SECTION	ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO. 0000 PM ITO	FEDERAL ID NO. ITO-0(204)T	SHEET NO. 21	TOTAL SHEETS 44	RECORD DRAWING
	DRAWN	M KERSHNER	08/26		MILEPOST							
	CHECKED	C VALENZUELA	08/26		STRUCTURE NO.							
	TRANSPORTATION AECOM TECHNICAL SERVICES, Inc. 1700 E River Road, Suite 350 Tucson, Arizona 85718 T 520.387.1800 www.aecom.com AECOM			TRAFFIC CONTROL NOTES & QUANTITIES	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19		DWG No. T-1.01					
					TRACS NO. SL698 01C		ADOT		____ OF ____			





LEGEND

Direction of Travel

Channelizing Device

Sign on Portable Sign Stand (Spring Type)

Type A Flashing Warning Light With Flags

SURVEY NO.						ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SECTION	ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO. 0000 PM ITO	FEDERAL ID NO. ITO-0(204)T	SHEET NO. 23	TOTAL SHEETS 44	RECORD DRAWING
			DESIGN	M KERSHNER	08/26									
			DRAWN	M KERSHNER	08/26									
			CHECKED	C VALENZUELA	08/26									
			TRANSPORTATION AECOM TECHNICAL SERVICES, Inc. 1700 E River Road, Suite 350 Tucson, Arizona 85718 T 520.887.1800 www.aecom.com			TRAFFIC CONTROL PLAN STA 30+00 TO 45+74	MILEPOST	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19						DWG No. T-1.03
TRACS NO. SL698 01C									OF					

DATE-

LOCATION-

REVISIONS-

FINISHED PLANS-

SURVEY NO.

DATE-

LOCATION-

REVISIONS-

FINISHED PLANS-

SURVEY NO.

SIGNING NOTES

GENERAL

1. All signs shall be in compliance with the Manual on Uniform Traffic Control Devices (MUTCD) Signing and Marking Standard Drawings, and the ADOT Traffic Engineering Manual of Approved Signs.

LOCATION

2. The sign locations and the post lengths are approximate. The contractor shall verify the sign locations and actual post lengths with the Engineer prior to installing signs.
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.
4. Offsets for all signs shall be measured from the edge of the pathway to the center of the sign.

PANEL

5. All new signs shall be fabricated of flat sheet aluminum as indicated in Section 608 of the Specifications.

SHEETING

6. The retroreflective sheeting on all new signs shall meet criteria established in Section 1007 of the Specifications.

POSTS

7. All new and relocated signs shall be installed on new square tube posts with foundations as indicated in ADOT Standard Drawings.
8. The Engineer may modify the signing plans.

REMOVALS

9. The contractor shall remove existing signing where indicated in the sign summary.
10. The contractor shall inventory all signs to be removed or covered and note damaged signs to the Engineer at the 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.

PAVEMENT MARKING NOTES

FINAL STRIPING

1. Final striping shall be high-build reflectorized traffic paint. The paint shall have a minimum thickness of 25 mils wet.

PAVEMENT PREPARATION

2. The contractor shall clean the pavement surface to the satisfaction of the Engineer, by sweeping and air-jet blowing, immediately prior to the placement of all pavement markings. The pavement surface shall be dry and the air and pavement temperatures shall not be less than 50 degrees F for the placement of the permanent pavement marking. The paint shall not be installed if rain is anticipated 48 hours prior to or after intended installation date.

STRIPING

3. 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.

GENERAL

4. The contractor shall preserve all roadway signs, sign supports, object markers, and mliepost markers. The contractor shall replace any signs, sign supports or markers damaged as a result of the construction at no additional cost to the Department.
5. The contractor shall delineate all new guardrail end treatments in accordance with the ADOT Standard Drawings and ADOT Standard Specifications. There shall be no measurement or payment for the guardrail end treatment delineation.
6. The signing and pavement marking drawings are schematic only and not to scale. The contractor shall follow all dimensions and details when installing pavement markings.

APPROXIMATE SIGNING & PAVEMENT MARKING QUANTITIES				
ITEM		ITEM NO.	UNIT	QUANTITY
SIGN PANELS	WARNING, MARKER, OR REGULATORY SIGN PANEL	6080005	SQ.FT.	109
	REMOVE AND REINSTALL SIGN	*6080110	EA.	15
SIGN POST	SIGN POST (PERFORATED) (2 S)	6070054	L.FT.	108
	SIGN POST (PERFORATED) (2½ S)	6070055	L.FT.	41
	SIGN POST (PERFORATED) (2½ T)	6070057	L.FT.	112
MISCELLANEOUS	FOUNDATION FOR SIGN POST (CONCRETE)	6070060	EA.	23
PAVEMENT MARKING	PERMANENT PAVEMENT MARKING (PAINTED) (YELLOW)	7080011	L.FT.	100
	PAINT BULLNOSE (ENTIRE FACE OF ISLAND CURB, L=62 LF)	7080301	EA.	1

* Includes the cost of new foundations and posts.

	NAME	DATE
DESIGN	M KERSHNER	08/26
DRAWN	M KERSHNER	08/26
CHECKED	C VALENZUELA	08/26

TRANSPORTATION

AECOM TECHNICAL SERVICES, Inc.

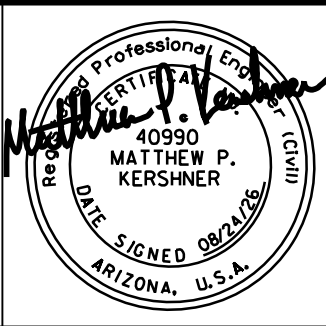
1760 E River Road, Suite 350

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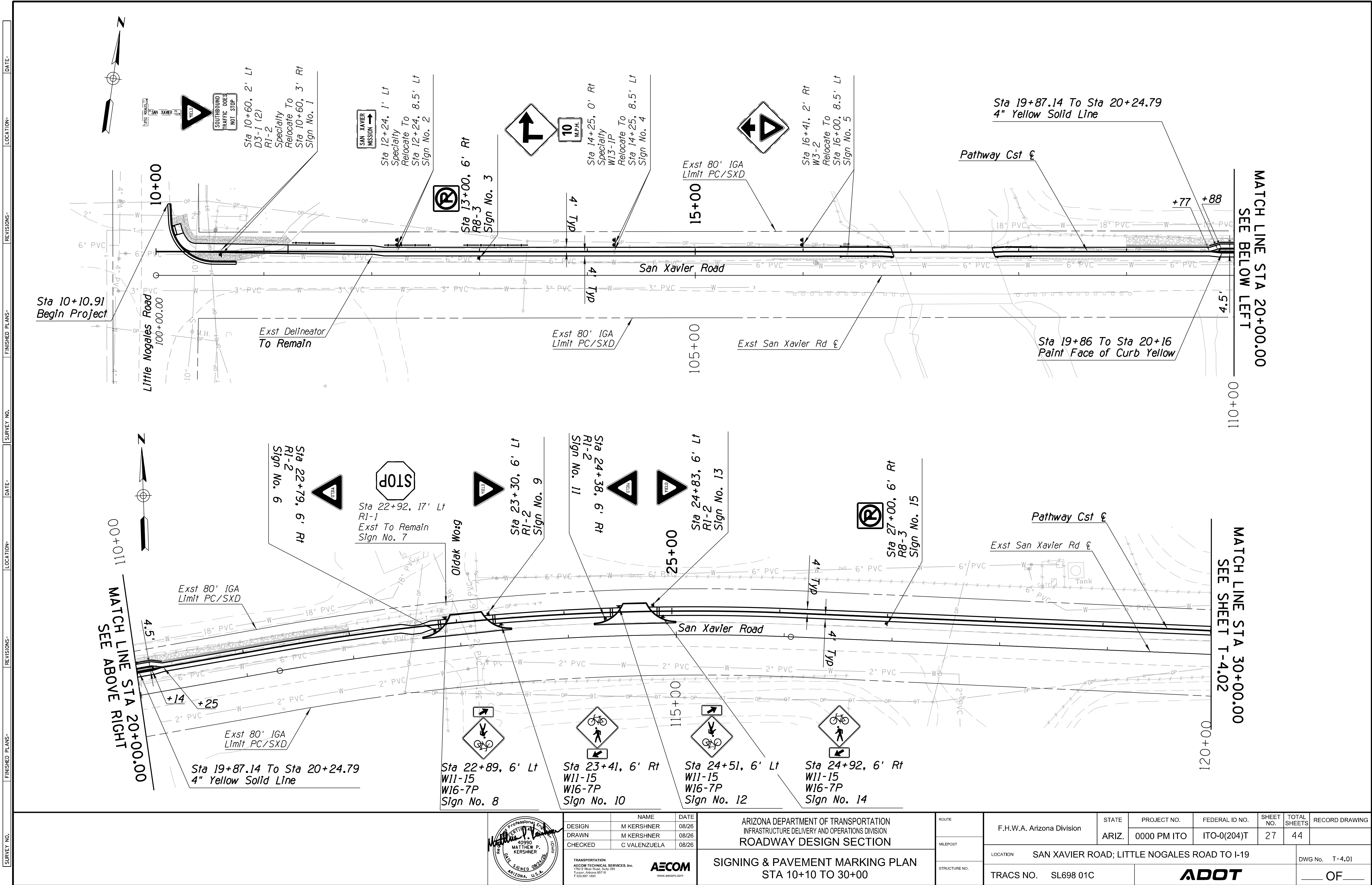
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ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SECTION	ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	MILEPOST			0000 PM ITO	ITO-0(204)T	24	44	
SIGNING & PAVEMENT MARKING NOTES & QUANTITIES	STRUCTURE NO.	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19						DWG No. T-2.01
		TRACS NO. SL698 01C		ADOT		___ OF ___		

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

NAME	DATE
M KERSHNER	08/26
M KERSHNER	08/26
C VALENZUELA	08/26

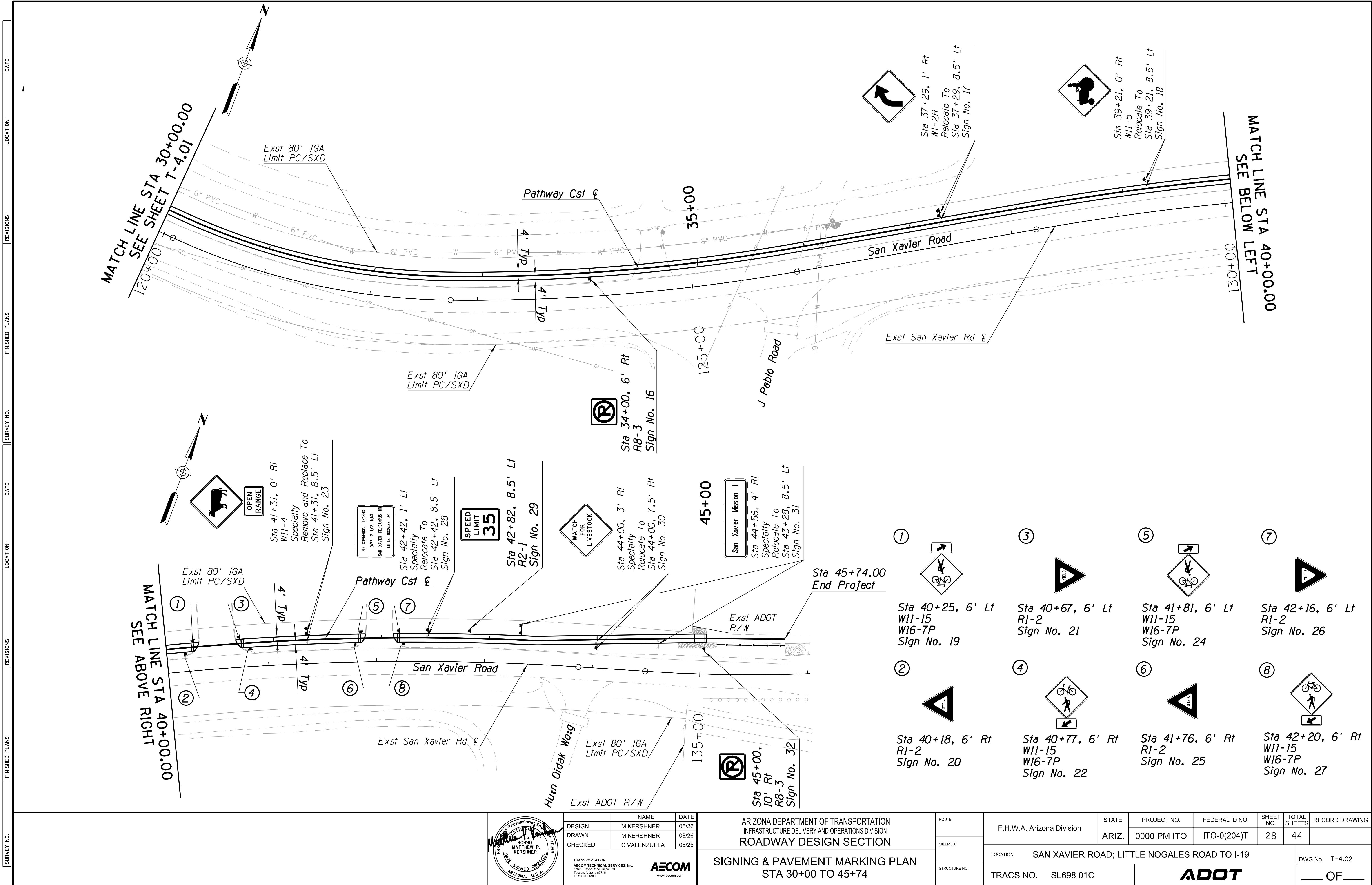
TRANSPORTATION
AECOM TECHNICAL SERVICES, INC.
1700 E River Road, Suite 350
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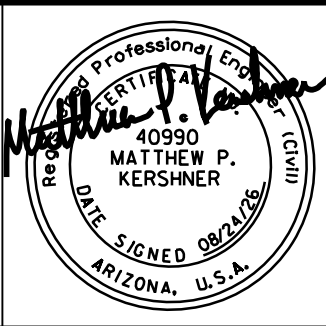
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SIGNING & PAVEMENT MARKING PLAN
STA 10+10 TO 30+00

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
F.H.W.A. Arizona Division	ARIZ.	0000 PM ITO	ITO-0(204)T	27	44	
LOCATION	SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19					DWG No. T-4.01
STRUCTURE NO.	TRACS NO. SL698 01C					OF



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



DESIGN	M KERSHNER	08/26
DRAWN	M KERSHNER	08/26
CHECKED	C VALENZUELA	08/26

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ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SECTION
SIGNING & PAVEMENT MARKING PLAN STA 30+00 TO 45+74

ROUTE	F.H.W.A. Arizona Division	STATE	ARIZ.	PROJECT NO.	0000 PM ITO	FEDERAL ID NO.	ITO-0(204)T	SHEET NO.	28	TOTAL SHEETS	44	RECORD DRAWING	
MILEPOST	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19												
STRUCTURE NO.	TRACS NO. SL698 01C												
											ADOT		
											DWG No. T-4.02		
											OF		

DATE-

LOCATION-

REVISIONS-

FINISHED PLANS-

SURVEY NO.

DATE-

LOCATION-

REVISIONS-

FINISHED PLANS-

SURVEY NO.

PLANT SCHEDULE - TREES

SYMBOL	Botanical name Common name	SIZE	QTY	BID ITEM
	Prosopis velutina Velvet Mesquite	15 Gallon - Multi-trunk	62	8061005

PLANT SCHEDULE - ACCENTS

SYMBOL	Botanical name Common name	SIZE	QTY	BID ITEM
	Ferocactus wislizenii Fishhook Barrel	5 Gallon (8" Minimum Diameter)	49	8061626
	Opuntia engelmannii Engelmann's Prickly Pear	5 Gallon (4 Pad Minimum)	26	8061631
	Opuntia violacea var. santa-rita Purple Prickly Pear	5 Gallon (4 Pad Minimum)	39	8061631

SEEDING AND INERT MATERIALS SCHEDULE

SYMBOL	ITEM	SIZE/COLOR/NOTES	QTY	BID ITEM
	Seed Mix - Low Growing Location: As Shown on Plans	Refer to Special Provisions for Seed Mix	0.87 AC	8050003
	Granite Mulch - 1 1/4" minus Location: As Shown on Plans	1 1/4" Minus Sante Fe Gold	2,006 SY	8030092
	Temporary Preservation Fence	N/A	281 LF	9030008

SYMBOL LEGEND

SYMBOL	ITEM
	Areas of Existing Vegetation
	Existing Tree to be Preserved in Place

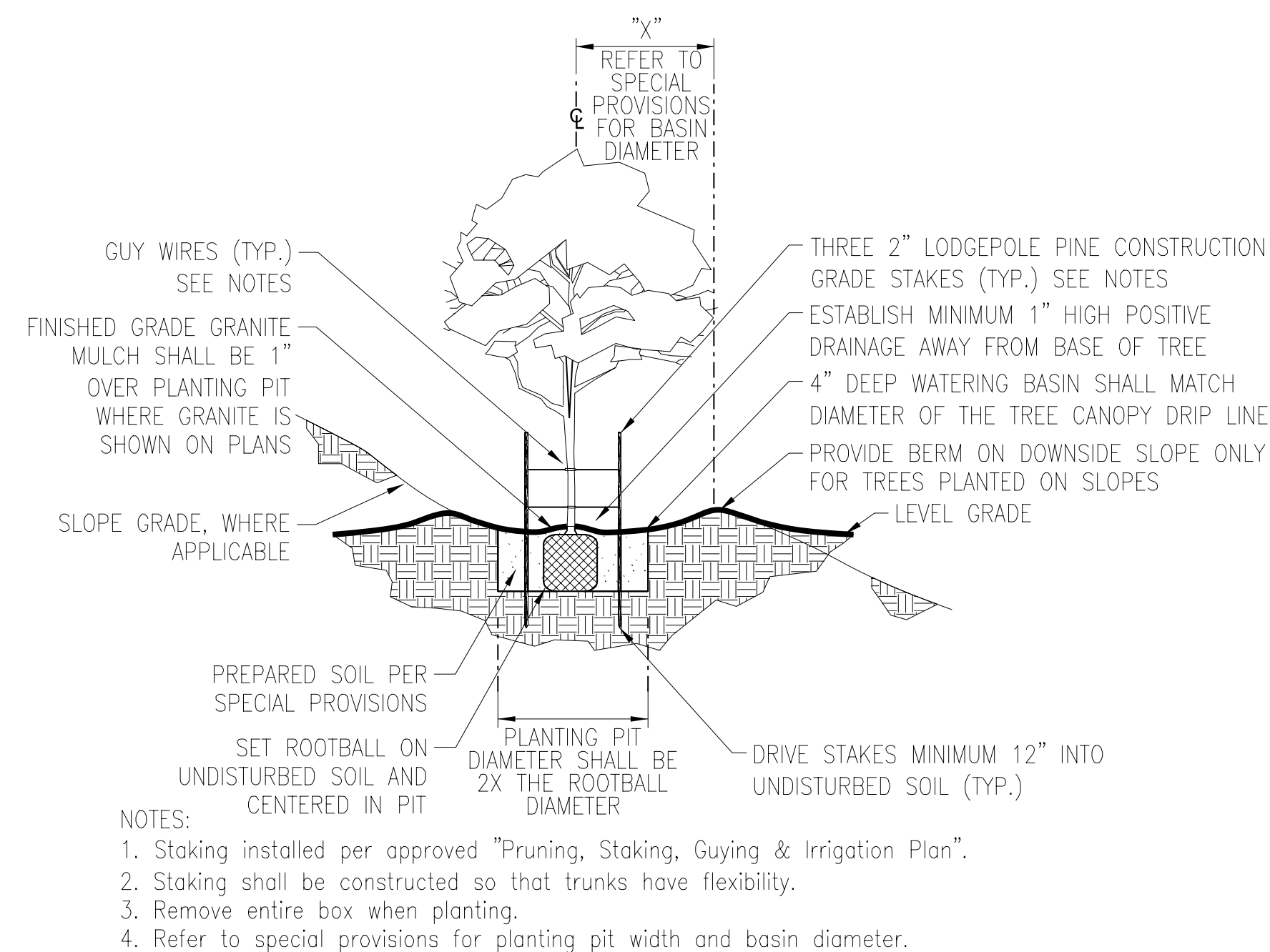
GENERAL LANDSCAPE NOTES

- All landscape installation shall be installed per the approved plans and will comply with the Specifications. Any deviations to the approved plans will require the approval of the Engineer.
- The Contractor is responsible for obtaining any required permits prior to the commencement of any work.
- It is the Contractor's responsibility to inspect the job site to become familiar with all existing conditions that could affect the installation of any work set forth in these plans and the Specifications prior to submitting a bid.
- The Contractor shall verify rock and soil conditions within the project site prior to bidding. No extra payment or time extension will be given due to rocky soil conditions. Contractor is responsible for conducting site inspections and checking testing logs to determine subsurface conditions prior to bidding.
- Clear zone requirements:
 - Concrete Drainage Channels:
Maintain a 15' clear zone between edge of the concrete drainage channel and trees.
 - Paved surfaces:
Maintain a 5' clear zone between mature spread of existing shrubs and ground covers and all paved surfaces. Minimum setback from paved surface edge to plant center shall be 10'. 30' clear zone shall be maintained between tree trunks and the closest driving lane.
 - Critical slopes:
Includes slopes exceeding 4:1 and not protected with a barrier as specified in the AASHTO Roadway Design Guidelines. Existing trees located adjacent to downward sloping critical slopes shall maintain a 10' clear zone beyond the toe of slope. It is the Contractor's responsibility to ensure that the tree trunk locations of the trees comply with the ADOT Clear Zone Standards.
- The Contractor shall provide a 6' clear zone between right-of-way fence and the nearest existing plant center along the project.
- The Contractor shall field adjust plants to allow for maintenance roadway access into each area. All adjustments/removals require prior approval from the Engineer.
- The term Landscape Architect, Resident Landscape Architect, and Resident Engineer are used interchangeable throughout the document. The term Landscape Architect, Resident Landscape Architect, and Resident Engineer shall be interpreted to mean the Engineer.
- The Contractor shall provide a 12-month landscscape establishment period in accordance with Section 807 of the Specification.
- The Contractor shall maintain field record drawings and present the field record drawings to the Engineer at a minimum of every two weeks for the duration of construction. A final presentation of field record drawings to ADOT's Resident Landscape Architect is required for approval.

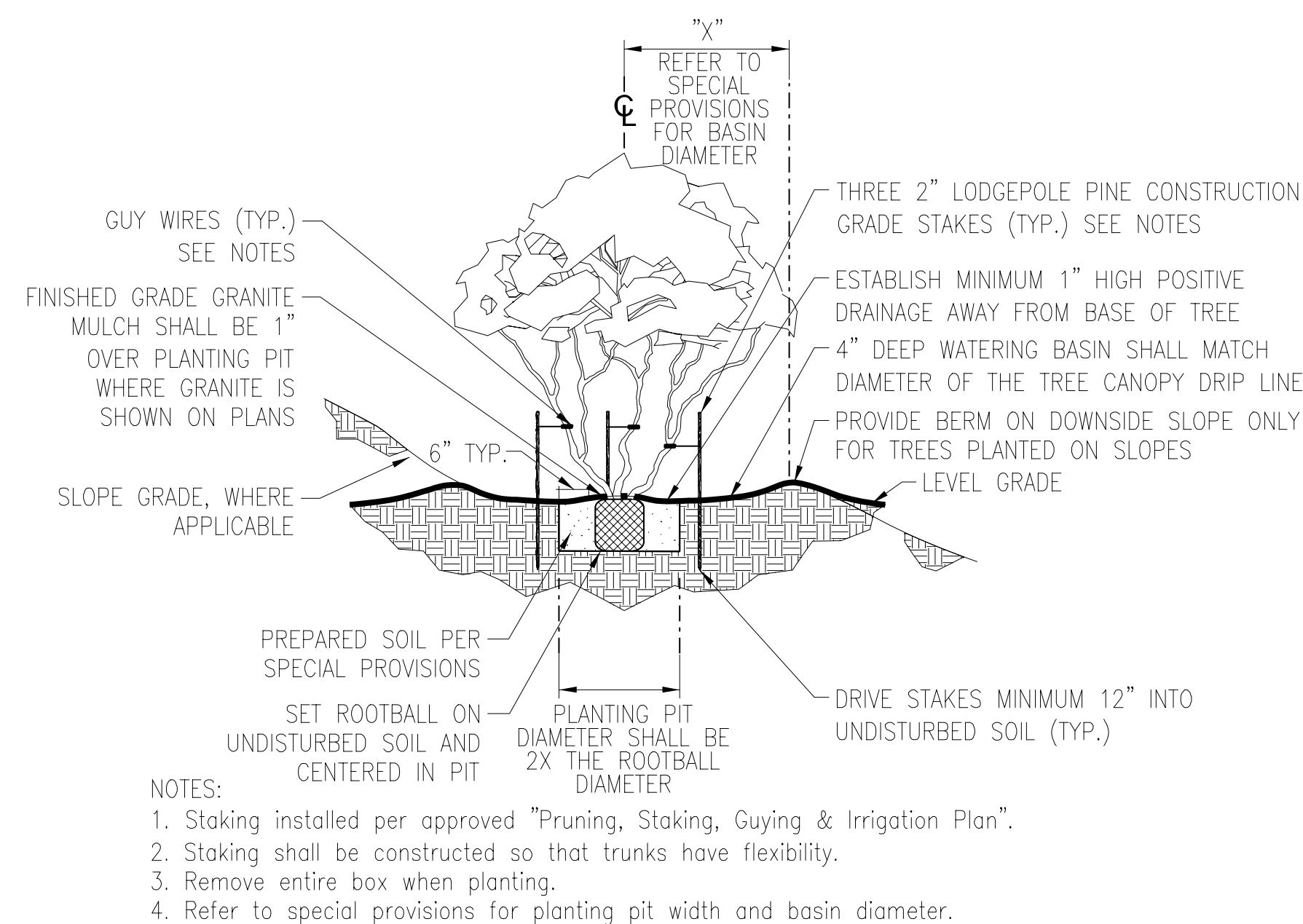
LANDSCAPE PLANTING NOTES

- The Contractor shall ensure that no trees be located within 10 feet of sewer or water lines, or overhead utility lines. All trees shall be planted in conformance with this standard. Trees shall be field adjusted if conditions differ from these plans, with approval from the Engineer.
- The Contractor shall ensure that no trees be located within 8 feet of gas lines.
- The Contractor shall ensure that the minium spacing between existing water mains and the edge of prepared soil for trees be a minimum of 5 feet horizontal distane from the outside of the prepared soil to the outside wall of the water pipe.
- The Contractor shall ensure that no plants be planted within 10 feet of retaining walls.
- The Contractor shall install plants a minimum of 5 feet away from traffic control devices and lightpoles for maintenance access.
- The Contractor shall ensure that the trunk of all trees be located no closer than 8 feet from face of curb.
- The Contractor shall ensure that the trunks of all trees be located outside all clear zones.
- The Contractor shall ensure that no trees or shrubs be planted so as to conceal the view of any highway sign or signal.
- ADOT reserves the right to inspect all containerized plants for conditions of the rootball. The Contractor shall supply additional plants at no additional cost to the Department if the plant is rejected.
- The Contractor shall ensure that the plant pit depth be measured on the low side of the plant pit when on a slope.
- The Contractor shall ensure that all plants be center in plant pits.
- The Contractor shall install Granite Mulch in all planting areas with the ROW, except for seeded areas and areas receiving Rock Mulch, as shown on the project plans. Refer to Planting Plans and Special Provisions for additional information.
- The Contractor shall refer to Landscape and Erosion Control plans for Seed Mix Location.
- Quantity schedules are shown for the Contractor's convenience only. Actual quantities shall be taken from the plans.
- The Contractor is responsible for all finished grading operations and shall meet existing grade at project limits. The Contractor shall also ensure positive drainage throughout the landscape areas to the designed drainage system and shall not create berms which obstruct flow, unless indicated per plans.
- The Contractor shall install granite rock mulch in accordance with the Specifications. Place and water settle to a minimum of two inches (2") total depth over a minimum of 85% compacted subgrade. A pre-emergent herbicide shall be applied before and after granite mulch placement.
- The Contractor shall provide Granite Mulch and Rock Mulch samples to the Engineer for approval prior to installation.
- The Contractor shall ensure that all trees to be staked include the cost for staking and/or guying as directed by the Engineer.
- The Contractor shall ensure that saguaros be placed according to Landscape Plans. Contractor to evenly distribute differing sizing of Saguaros throughout the project.

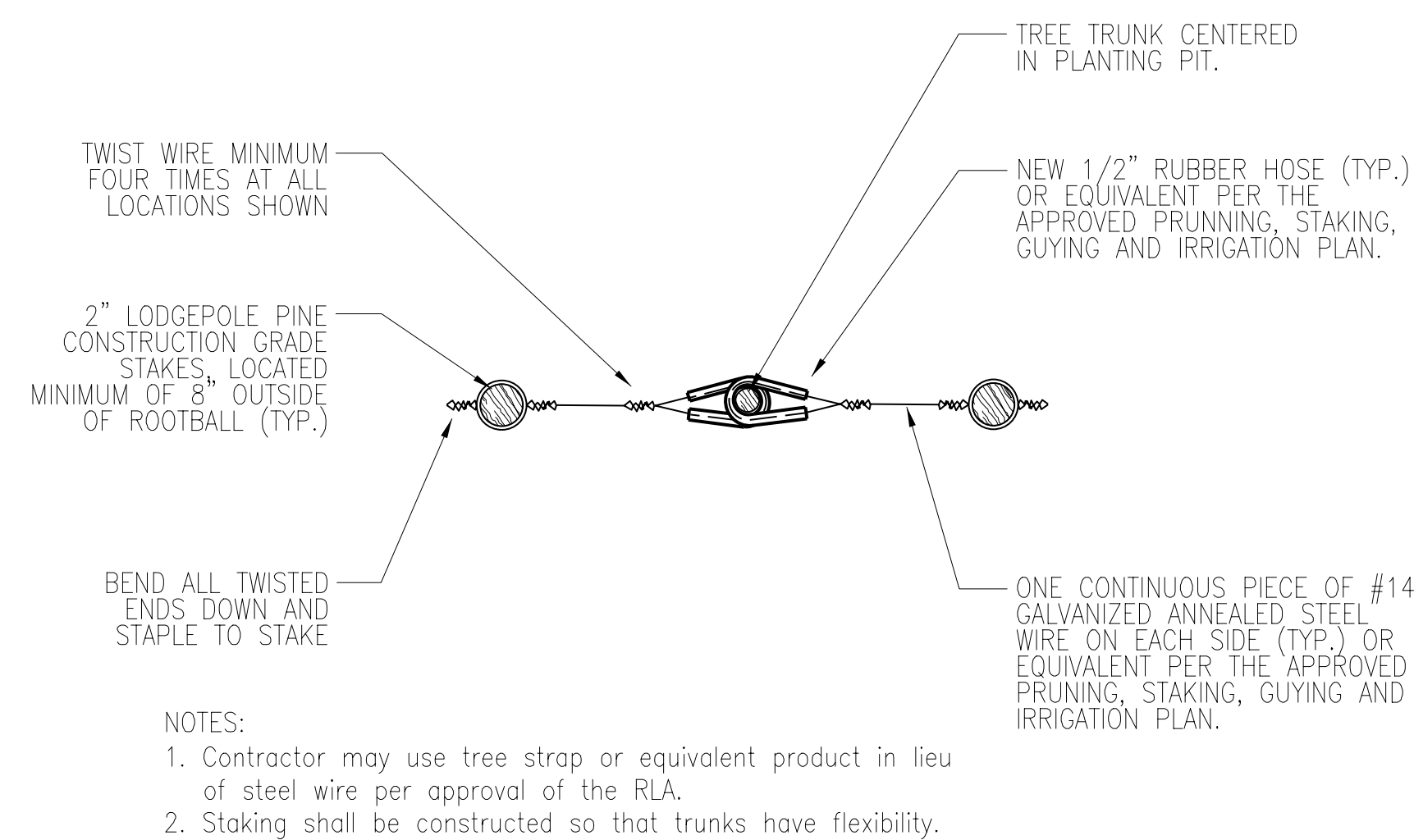
SURVEY NO.			DESIGN	P VASQUEZ	08/26	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SECTION	ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING		
			DRAWN	P VASQUEZ	08/26					0000 PM ITO	ITO-0(204)T	29	44			
			CHECKED	L MIELCAREK	08/26											
						LANDSCAPE SUMMARY			MILEPOST	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19						
									STRUCTURE NO.	TRACS NO. SL698 01C		ADOT		DWG No. L-1.01		
														OF		



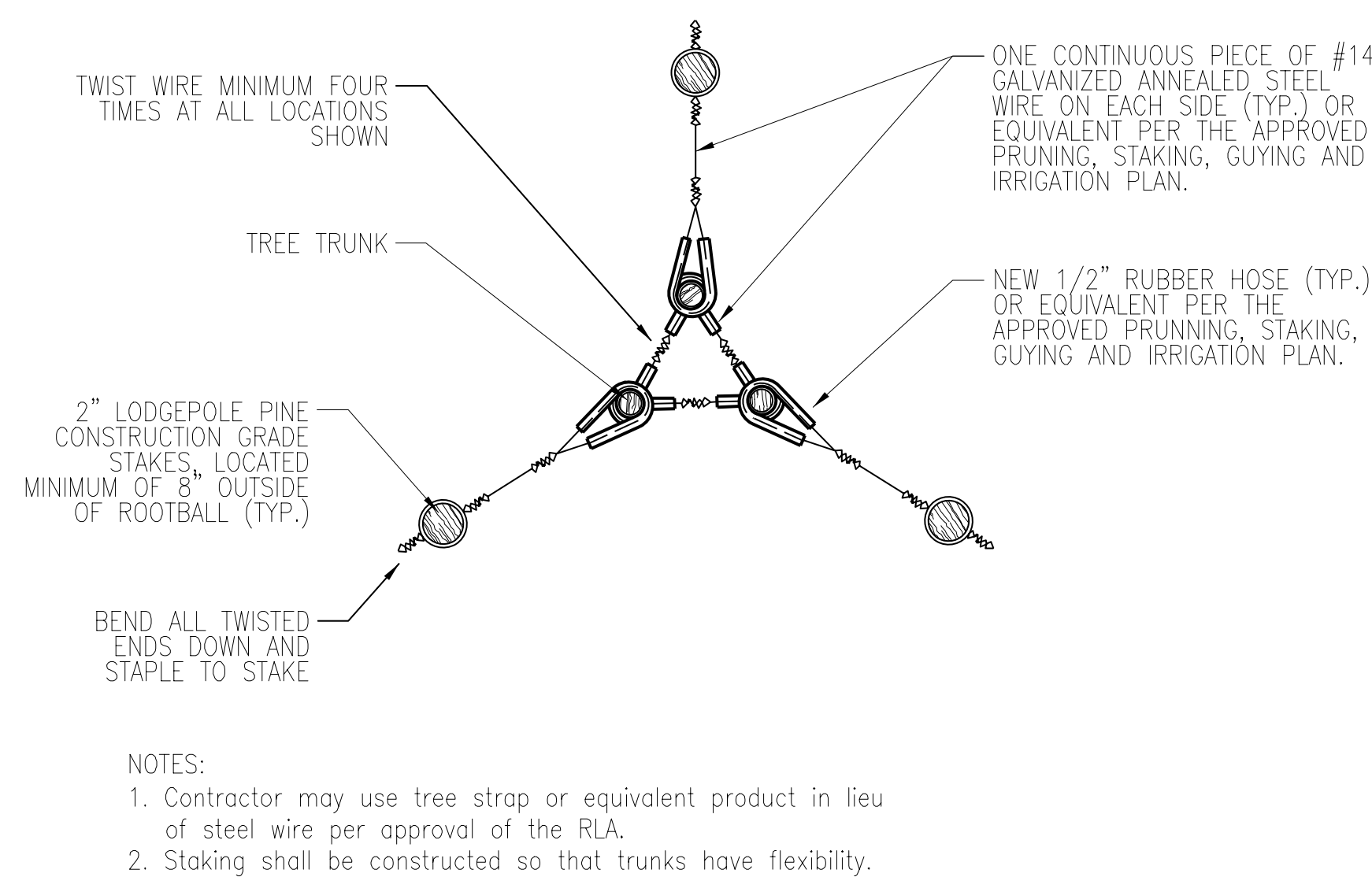
01 SINGLE TRUNK TREE PLANTING AND SKATING DETAIL
N.T.S.



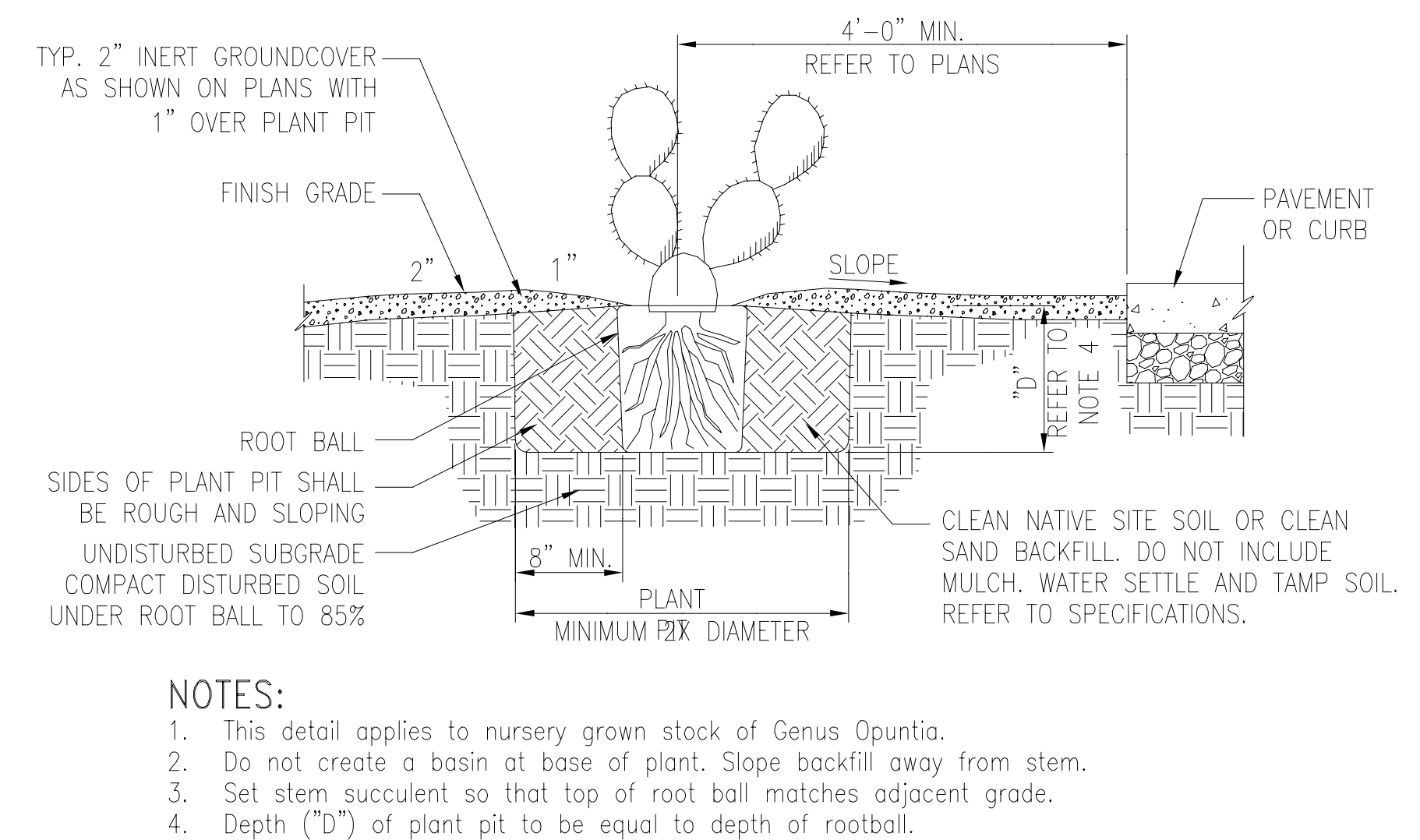
02 MULTI-TRUNK TREE PLANTING AND SKATING DETAIL



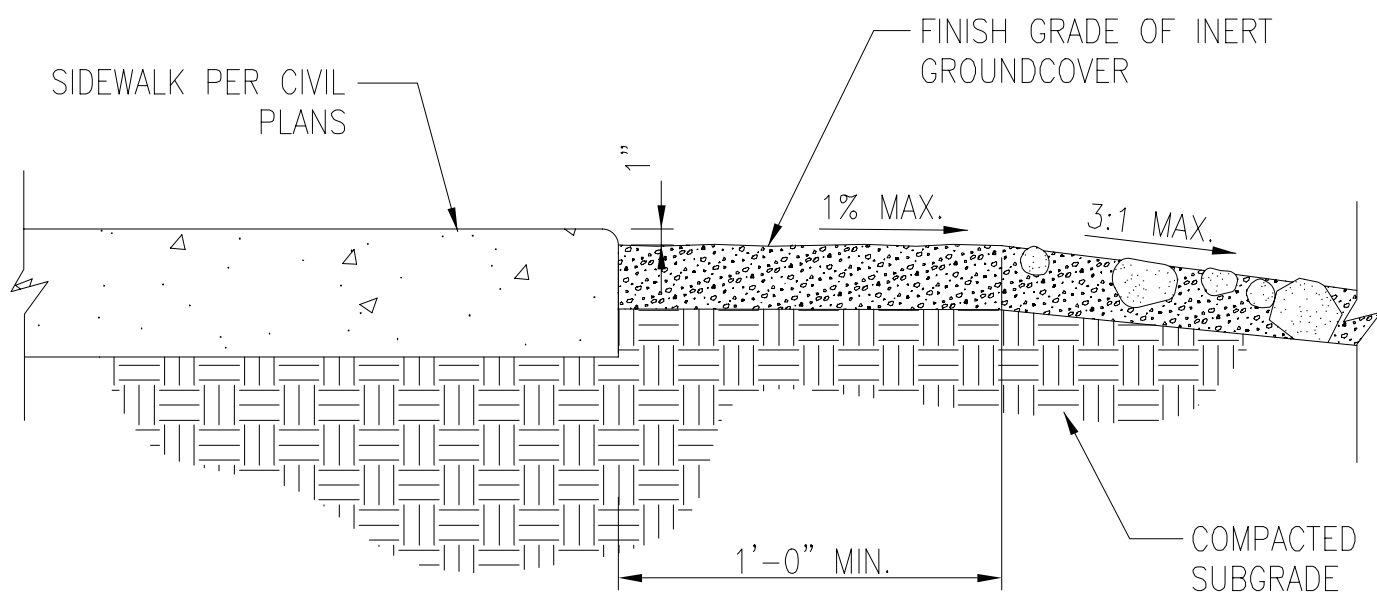
03 SINGLE TRUNK STAKING DETAIL (Plan View)
N.T.S.



04 MULTI-TRUNK STAKING DETAIL (Plan View)
N.T.S.



05 PRICKLY PEAR PLANTING (CONTAINER GROWN)
N.T.S.

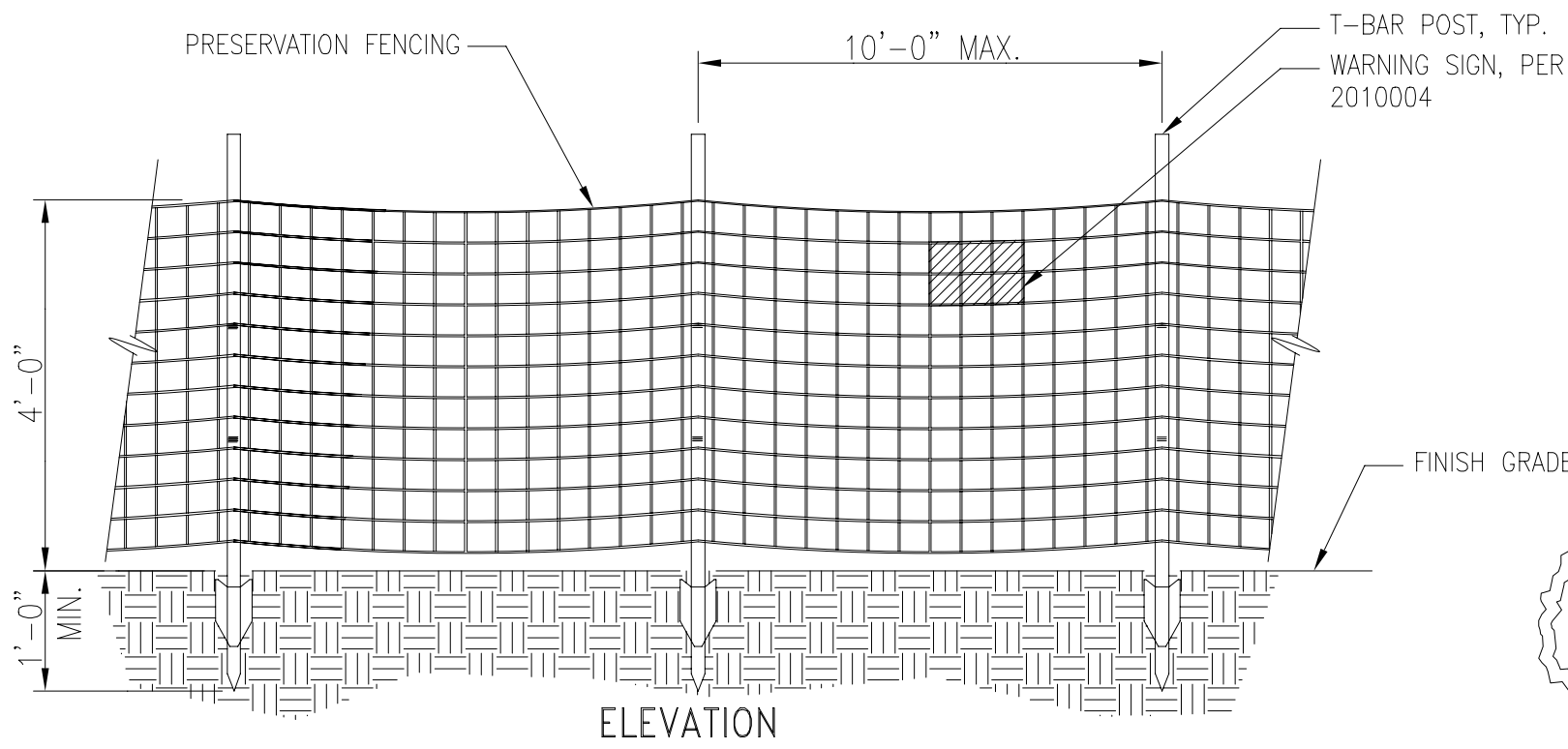


NOTES:
1. Refer to Landscape Summary Sheet LP01 for Mulch Color and Size.

01

FINISH GRADE AT CONCRETE PAVEMENT

N.T.S.

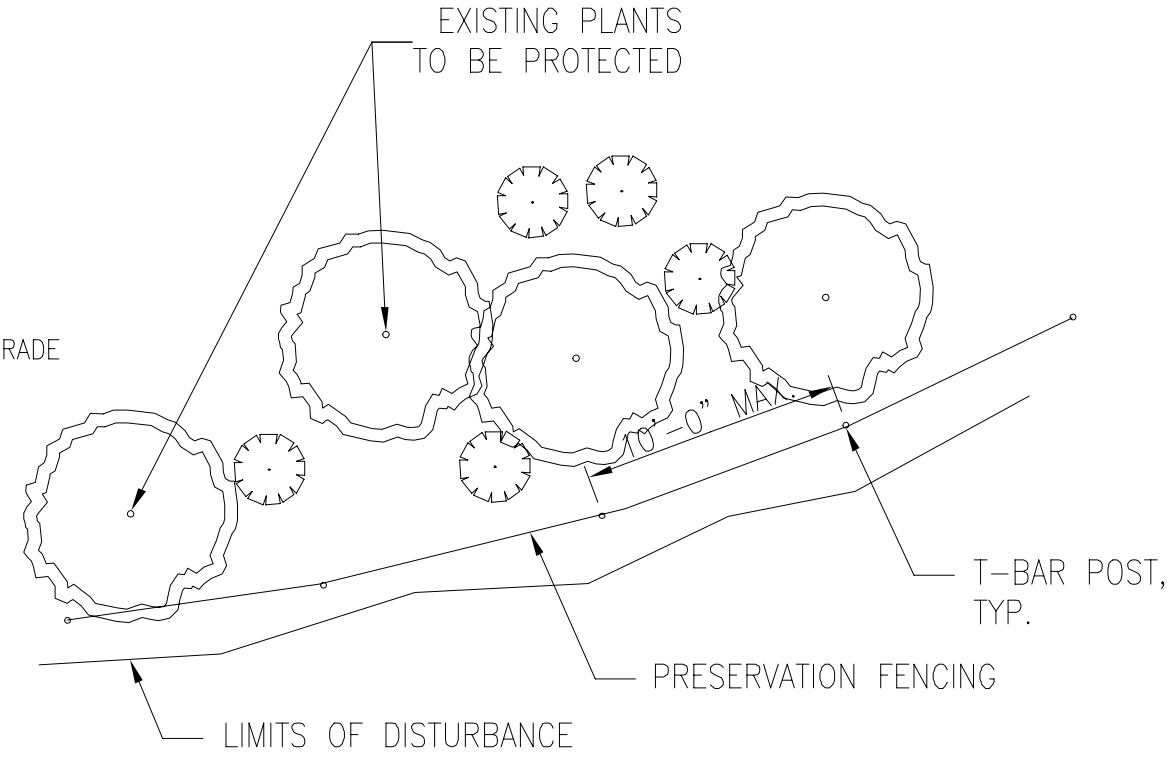


NOTE:
1. Preservation fencing is Tensor 4' orange mesh fence or approved equal.

02

PRESERVATION FENCING

N.T.S.



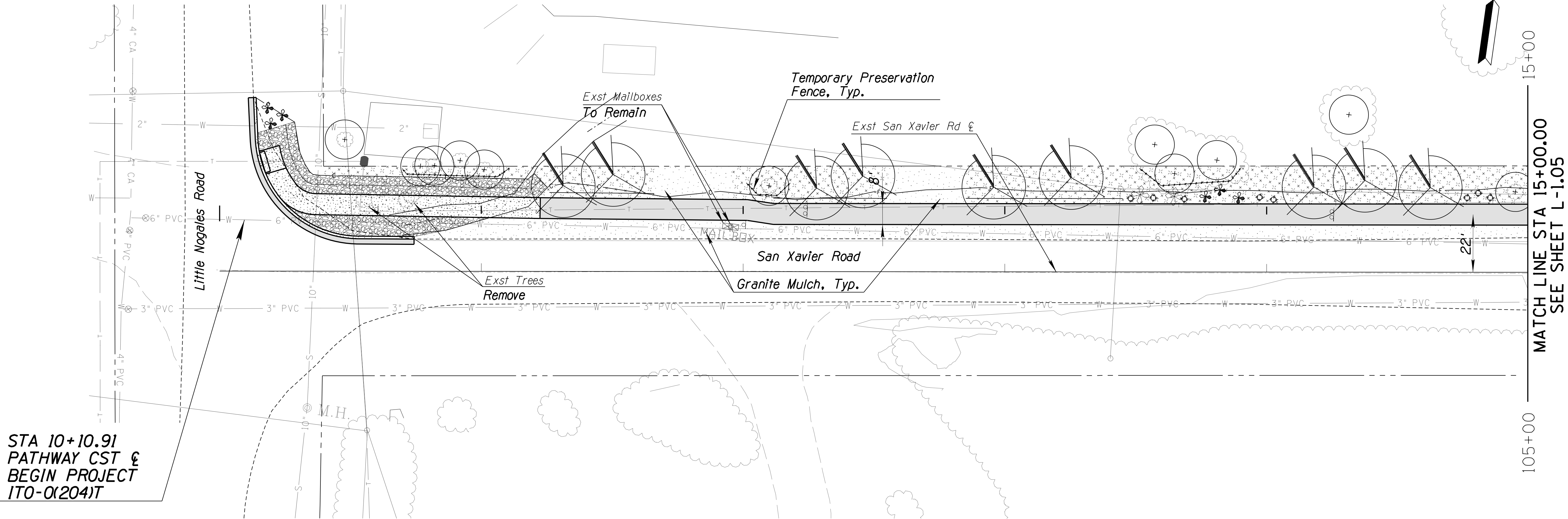
DESIGN	P VASQUEZ	08/26
DRAWN	P VASQUEZ	08/26
CHECKED	L MIELCAREK	08/26

J2 Design

4640 E COTTON GIN LOOP B2 PHOENIX, AZ 85040 912.438.2221

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION
LANDSCAPE DETAILS

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 PM ITO	ITO-0(204)T	31	44	
	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19						DWG No. L-1.03
STRUCTURE NO.	TRACS NO. SL698 01C		ADOT				___ OF ___



PLANT LEGEND - TREES		
SYMBOL	Botanical name Common name	SIZE
	<i>Prosopis velutina</i> Velvet Mesquite	15 Gallon - Multi-trunk

PLANT LEGEND - ACCENTS		
SYMBOL	Botanical name Common name	SIZE
	<i>Ferocactus wislizenii</i> Fishhook Barrel	5 Gallon (8" Minimum Diameter)
	<i>Opuntia engelmannii</i> Engelmann's Prickly Pear	5 Gallon (4 Pad Minimum)
	<i>Opuntia violacea</i> var. <i>santa-rita</i> Purple Prickly Pear	5 Gallon (4 Pad Minimum)

SEEDING AND INERT MATERIALS	
SYMBOL	ITEM
	Seed Mix - Low Growing Location: As Shown on Plans
	Granite Mulch - 1 1/4" Minus Location: As Shown on Plans
	Temporary Preservation Fence

SYMBOL LEGEND	
SYMBOL	ITEM
	Areas of Existing Vegetation
	Existing Tree to be Preserved in Place

\$FILES\$

\$DATES\$

@\$TIMES\$

\$USERS\$

DESIGN	P VASQUEZ	08/26
DRAWN	P VASQUEZ	08/26
CHECKED	L MELCAREK	08/26

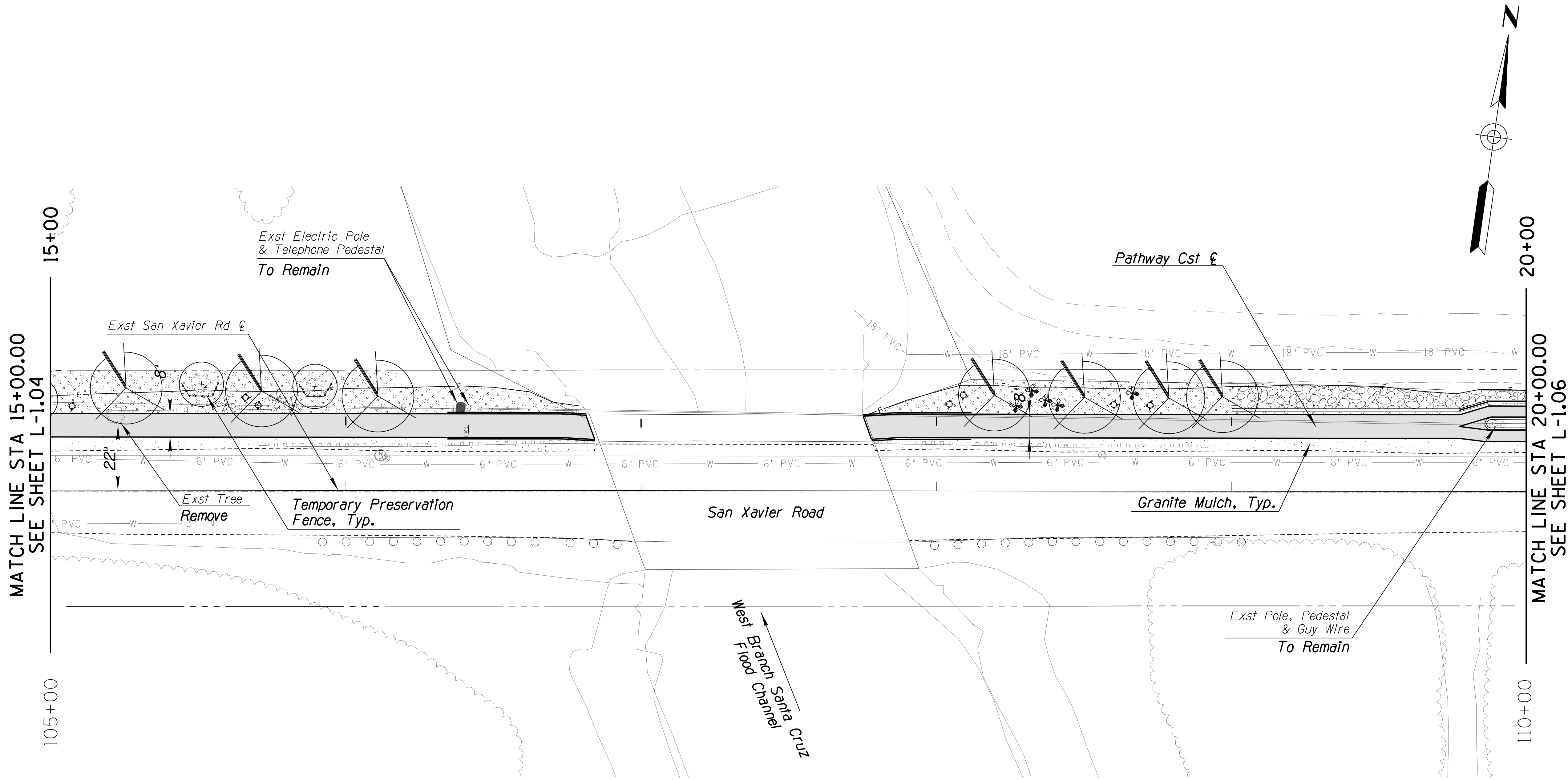
4640 E COTTON GIN LOOP B2 PHOENIX, AZ 85049 922.438.2221

NAME	DATE
P VASQUEZ	08/26
P VASQUEZ	08/26
L MELCAREK	08/26

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION
LANDSCAPE PLAN
STA 10+10.91 TO STA 15+00

ROUTE	
MILEPOST	
STRUCTURE NO.	

F.H.W.A. Arizona Division	STATE	ARIZ.	PROJECT NO.	0000 PM ITO	FEDERAL ID NO.	ITO-0(204)T	SHEET NO.	32	TOTAL SHEETS	44	RECORD DRAWING
LOCATION							SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19			DWG No. L-1.04	
TRACS NO.			SL698 01C						OF		



PLANT LEGEND - TREES

SYMBOL	Botanical name Common name	SIZE
	<i>Prosopis velutina</i> Velvet Mesquite	15 Gallon - Multi-trunk

PLANT LEGEND - ACCENTS

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	Temporary Preservation Fence

SYMBOL LEGEND

SYMBOL	ITEM
	Areas of Existing Vegetation
	Existing Tree to be Preserved in Place

FILES

DATES

@\$TIMES

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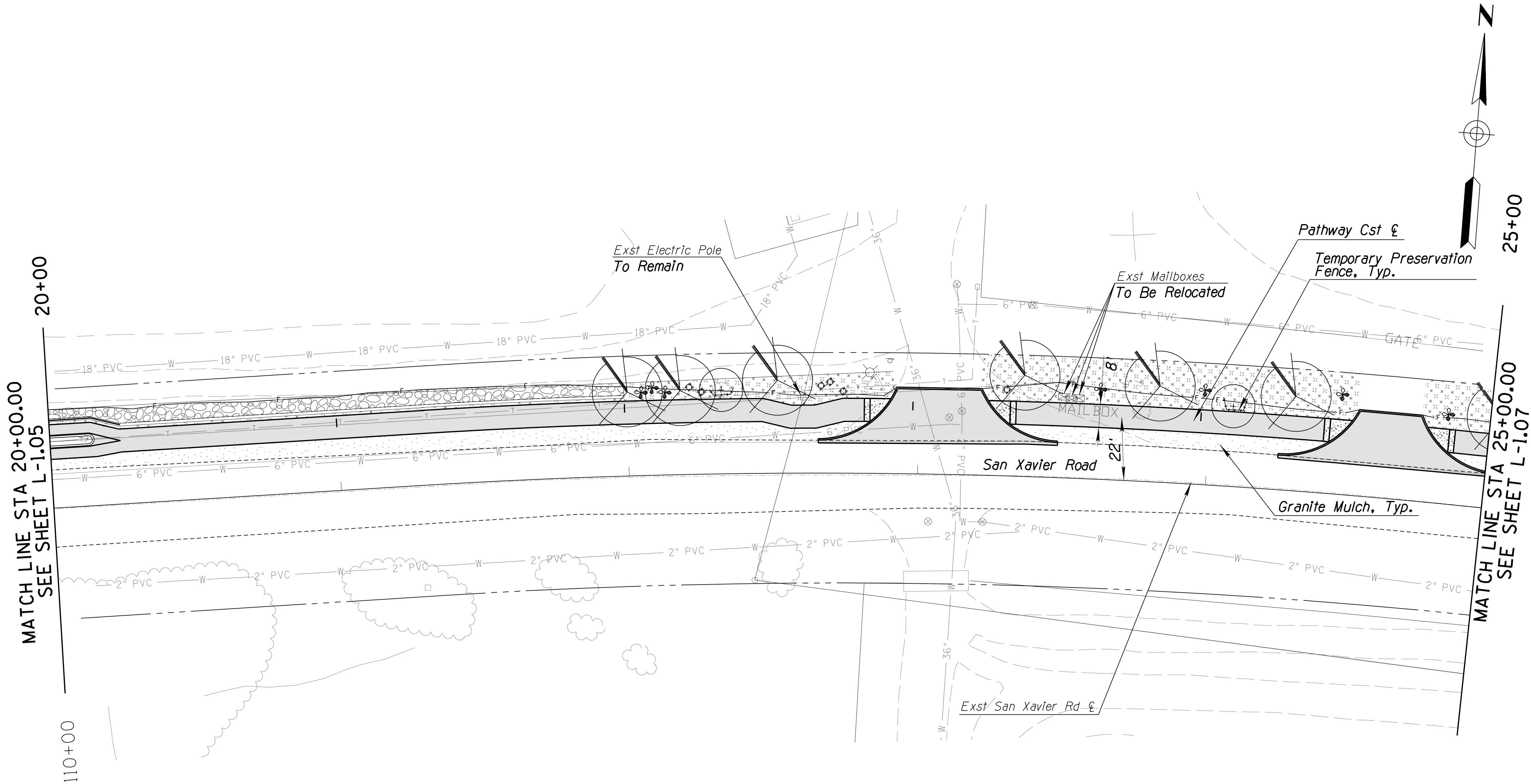
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DRAWN	P VASQUEZ	08/26
CHECKED	L MELCAREK	08/26

4649 E COTTON GIN LOOP 92 PHOENIX, AZ 85040-9302-439.2221

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

LANDSCAPE PLAN
STA 15+00 TO STA 20+00

ROUTE	F.H.W.A. Arizona Division	STATE	ARIZ.	PROJECT NO.	0000 PM ITO	FEDERAL ID NO.	ITO-0(204)T	SHEET NO.	33	TOTAL SHEETS	44	RECORD DRAWING
MILEPOST	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19											
STRUCTURE NO.	TRACS NO. SL698 01C							DWG No. L-1.05 OF				



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SYMBOL	Botanical name Common name	SIZE
	<i>Prosopis velutina</i> Velvet Mesquite	15 Gallon - Multi-trunk

PLANT LEGEND - ACCENTS

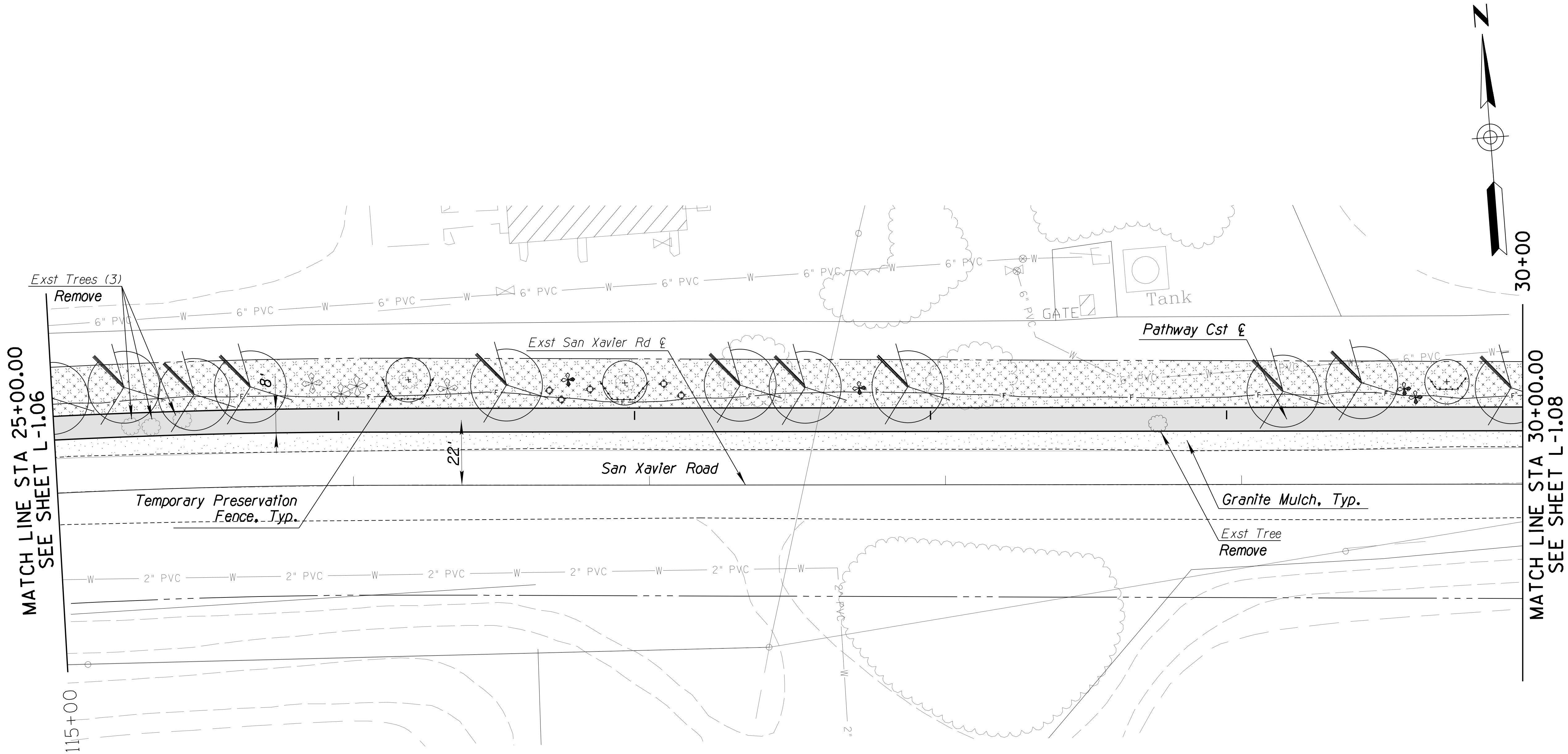
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	Existing Tree to be Preserved in Place



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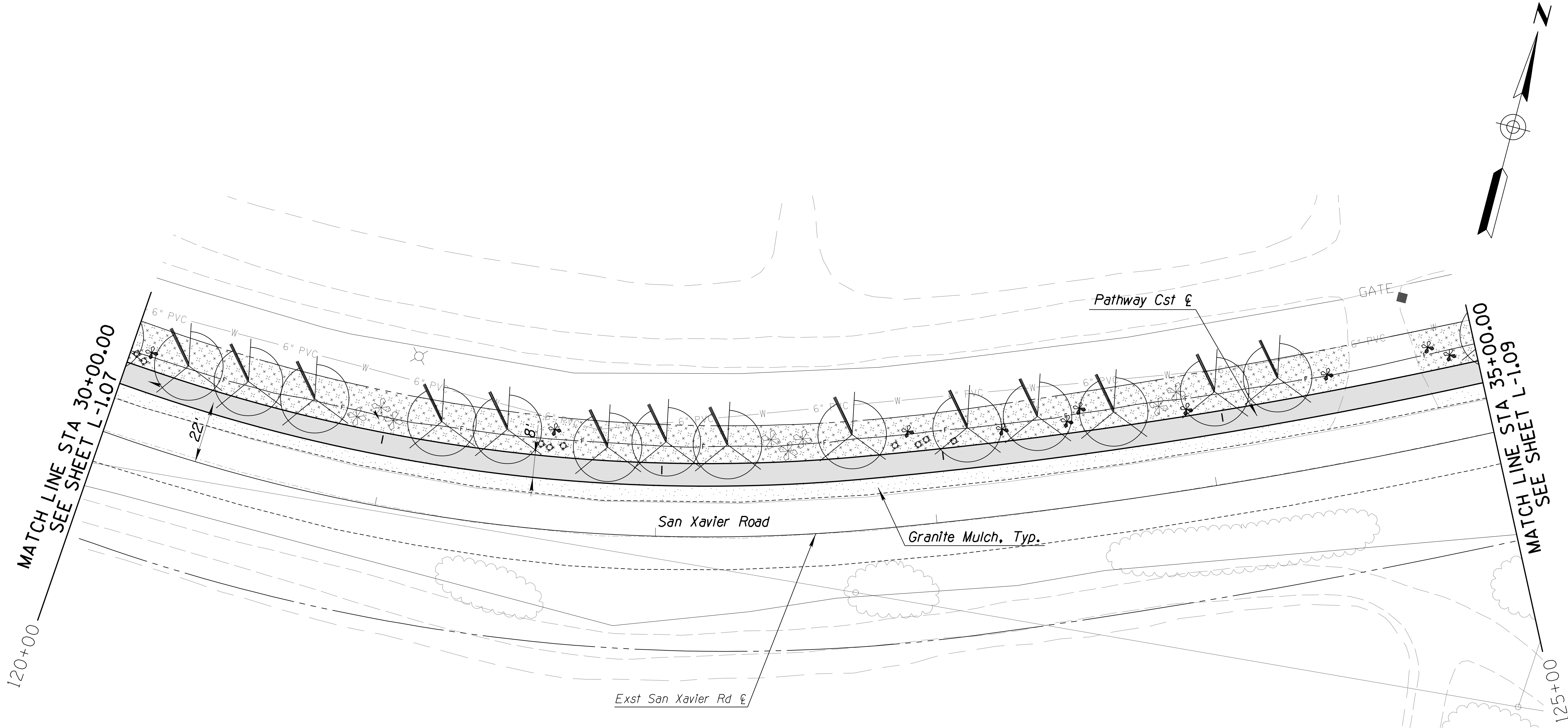
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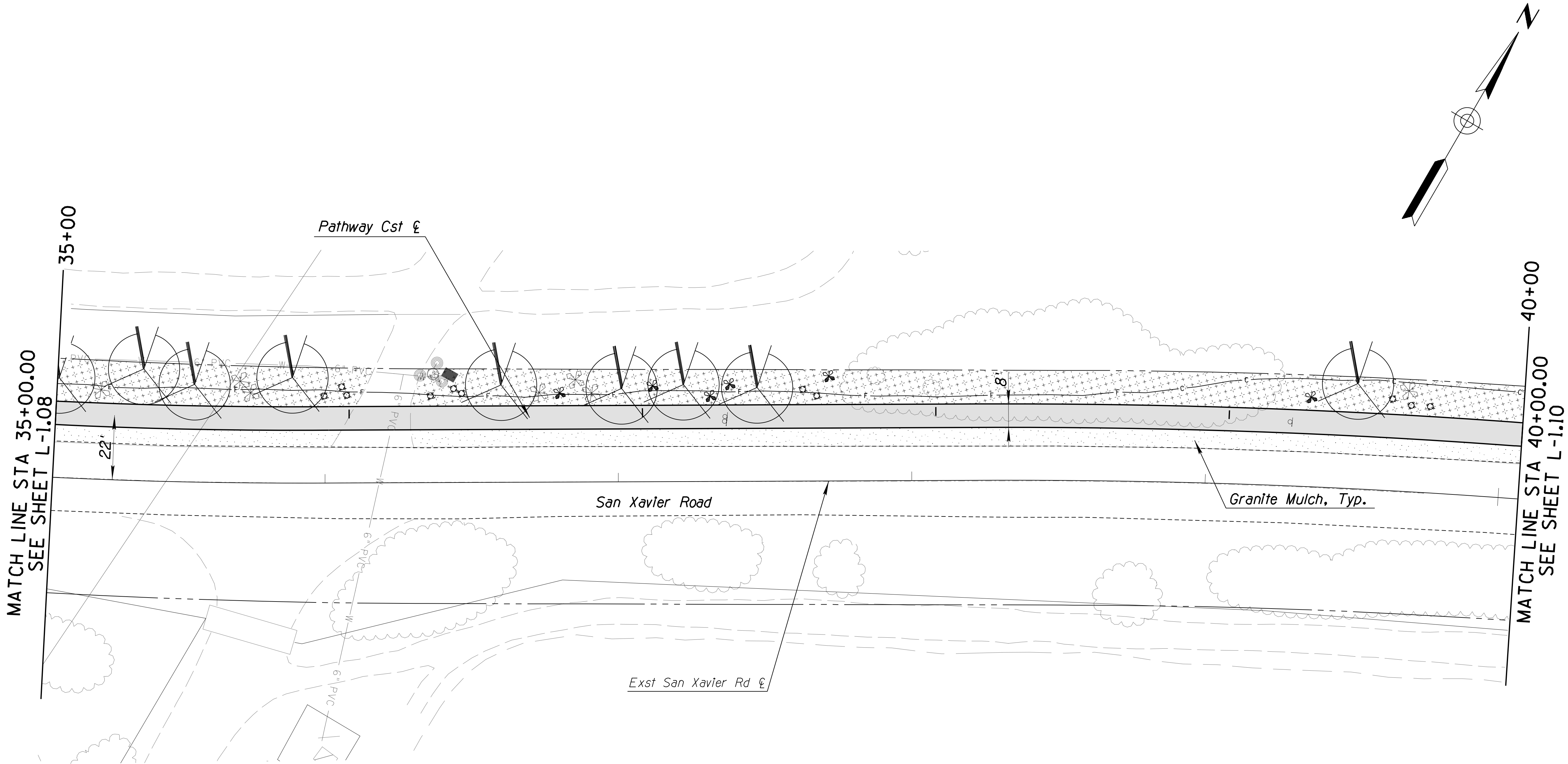
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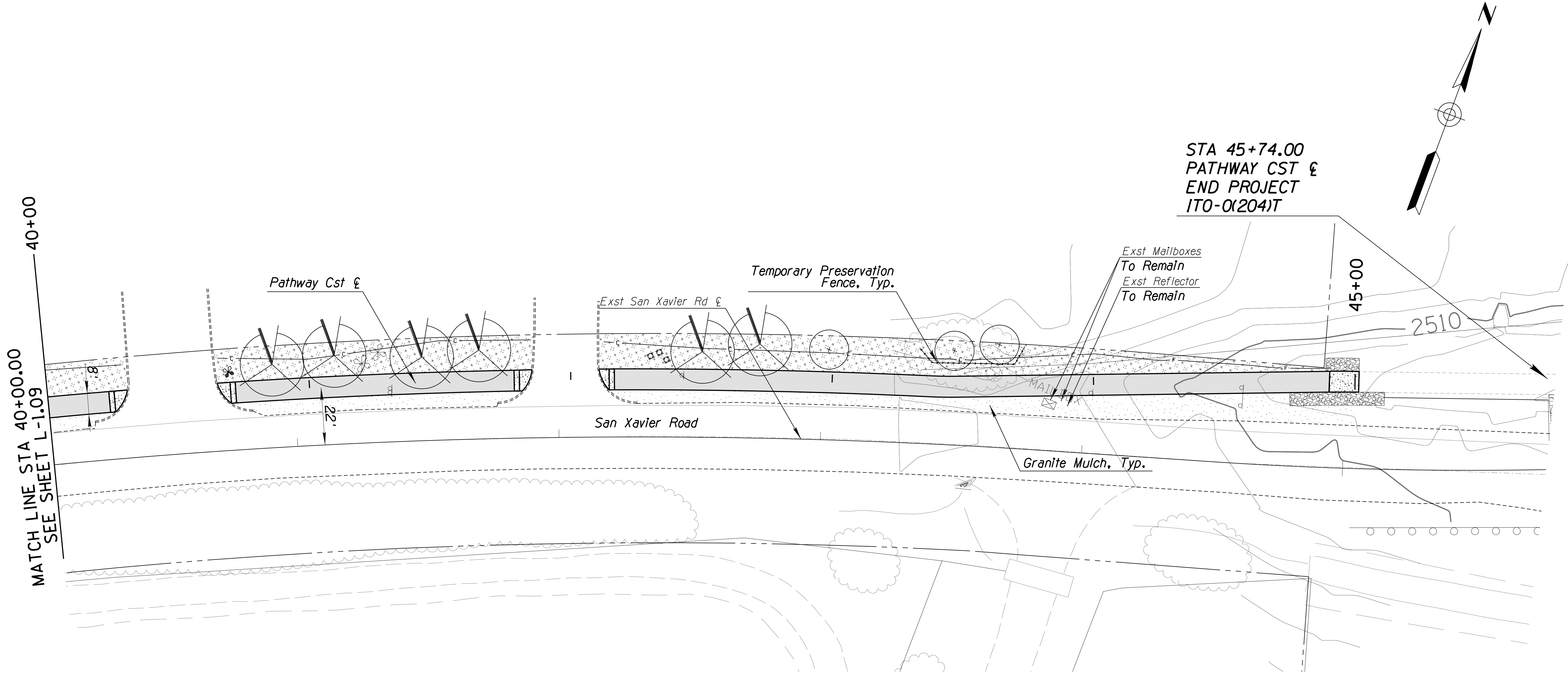
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SYMBOL LEGEND	
SYMBOL	ITEM
	Areas of Existing Vegetation
	Existing Tree to be Preserved in Place

PART 1 - To be completed by the Landscape Architect or Design Engineer

I. PROJECT DESCRIPTION

- A. Owner Name and Address:
- Arizona Department of Transportation
205 South 17th Avenue
Phoenix, Arizona 85007-3213
- B. Project TRACS Number: SL698 OIC
- C. Project Location: San Xavier Road from Little Nogales Road to I-19
- City: County: Pima County
- Beginning Latitude (NAD 83): 32° 06' 10.10" N
- Beginning Longitude (NAD 83): 111° 00' 25.34" W
- Ending Latitude (NAD 83): 32° 06' 16.50" N
- Ending Longitude (NAD 83): 110° 59' 46.77" W
- To obtain the project latitude/longitude data, refer to the Flash Earth web link below (Bing Maps with labels): <http://www.flashearth.com/>

D. Project Description: Construct 3,340 LF of new asphalt pathway on the north side of San Xavier Road between Little Nogales Dr. and I-19. Other improvements include new sidewalk, sidewalk ramps, paved turnouts, concrete ford walls and header, fencing, riprap, landscaping, granite mulch, signing and pavement marking.

II. HYDROLOGIC INFORMATION

- A. Project Size:
- Length (Mi.) 0.66 Mi.
- Area (Ac.) 1.57 Ac.
- B. Area to be Graded (Ac.) *: 1.57 Ac.
- * Blading of the shoulder build-up area is considered as grading and ground disturbance and should be covered by stormwater and/or other environmental regulations.
- C. Percentage of the site that is impervious before and after construction:
- Percentage before Construction: 4%
- Percentage after Construction: 45%
- D. Receiving Water(s), refer to the Arizona Department of Water Resources Web Link below (USGS Topo): <https://gisweb.azwater.gov/WellRegistry/Default.aspx>
- Santa Cruz River

III. PRESERVATION OF EXISTING VEGETATION

- A. In accordance with the specifications, existing vegetation will be preserved. Clearing limits shall be confined to areas that require grading. Existing vegetation outside the boundaries of the cleared area shall be protected from damage by construction activities. Existing trees within the area to be cleared shall be preserved and protected, wherever possible.

IV. SOIL STABILIZATION MEASURES

- A. All disturbed soil, which will not be paved, ripped or otherwise covered to prevent erosion, will be revegetated and/or landscaped in accordance with the project plans and specifications.
- B. Scheduling of the revegetation effort can be found on PART 2 of this sheet under SCHEDULE OF MAJOR ACTIVITIES.

V. MEASURES TO CONTROL EROSION AND SEDIMENT

- A. Temporary Erosion and Sediment Controls: (Refer to the Following SWPPP Site Plan and Specifications)
- Erosion Control Mattings
- Temporary Diversion Dikes
- Check Dams
- Rock Inlet/Outlet Protection
- Sediment Control Berms
- Silt Fences
- X Wattles (Excelsior/Straw)
- X Excelsior Logs / Sediment Logs
- X Seeding (Class II with mulch)
- Others Describe:

- B. Permanent Erosion and Sediment Controls and Post-construction Storm Water Management Measures: (Refer to SWPPP Site Plan and Specifications)
- Crown Ditch/Dike
- Rock Protection
- X Rock Riprap Channel Lining
- Sediment Basin
- Embankment Curb
- Spillways and Downdrains
- Minibenching
- Seeding established as a perennial vegetative cover with a density of 70% of the native background vegetative cover.
- X Others Describe:
- Granite Mulch adjacent to new pathway and installed along new fill slopes.

VI. MAINTENANCE AND INSPECTIONS

- A. Frequency of Inspections:
- At least once every 7 calendar days, OR
- X Every 14 calendar days and within 24 hours after a rainfall of 0.5 inches (12.7 mm) or more.

NOTE: RAINFALL GAUGE TO BE KEPT ON-SITE TO DETERMINE DEPTH OF RAINFALL

- B. Inspection Procedure:
- ADOT's Contractor's Inspection Log and Compliance Evaluation Report (CER) will be completed by the contractor or his representative and will be kept on file for 3 years. A signed copy of the CER will be sent to the ADOT resident engineer. If repairs are necessary, they shall be initiated within 24 hours of the inspection report.

PART 2 - To be completed by ADOT & CONTRACTOR

http://www.azdot.gov/inside_adot/OES/Water_Quality/Stormwater/Docs/swppp_construction_template.dot

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWINGS
9	ARIZ.	ITO-0(204)T	39	44	

0000 PM ITO

I. SCHEDULE OF MAJOR ACTIVITIES

- A. Project Schedule:
- Start Date:
- End Date:
- B. Construction Sequencing Schedule: (Attach Additional Sheets) Construction Activities

II. INVENTORY OF POLLUTANTS

- A. The materials or substances checked below are expected to be onsite during construction:
- Concrete Asphalt
- Paints Fertilizer
- Herbicides Wood
- Fuel Oil
- Others, List:

III. POLLUTION CONTROL MEASURES

- A. Other Best Management Practices:
- Wind Erosion and Dust Control
- Solid Waste Management
- Equipment Maintenance Procedures
- Designated Washout Areas
- Stabilized Construction Entrance
- Protected Chemical and Material Storage Area
- Other, Describe:

IV. SPILL PREVENTION AND RESPONSE

- A. Spill Prevention:
- The procedures outlined in the Best Management Practices listed under Pollution Control Measures will be followed to prevent and contain spills of hazardous material. These preventative action include BMP's on equipment maintenance and proper handling, storage and disposal of chemicals and materials. All manufacturer's recommendations for usage, clean-up and disposal shall be followed.
- B. Spill Response:
- In the event of any accidental spill of chemicals or hazardous materials, contact the ADOT Traffic Operations Center at 800-379-3701. If a reportable quantity is discharged into the storm water, ADOT shall contact the National Response Center and document the spill to the EPA. ADOT's Hazardous Materials Specialist shall provide instructions.

V. CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

- A. This Storm Water Pollution Prevention Plan (SWPPP) has been prepared in accordance with the latest updated version of ADOT's EROSION AND POLLUTION CONTROL MANUAL FOR HIGHWAY DESIGN AND CONSTRUCTION, published by ADOT Intermodal Transportation Division.
- SWPPP is in compliance with other Federal, State Laws, or Local Regulations.

VI. POLLUTION PREVENTION PLAN CERTIFICATION

- A. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Applies to VI. B., C., and D)
- B. The operator/contractor as defined in AZPDES should sign the SWPPP in accordance with CGP Part VIII. J, and retain the SWPPP on-site at the construction site or other location easily accessible during normal business hours.
- Signature: (operator/contractor)
- Date:
- Name:
- Title:
- Company:

- C. ADOT Resident Engineer
- Signature: (owner)
- Date:
- Name:
- Title:
- ADOT District:
- D. MUNICIPALITY for Municipal Separate Storm Sewer System (MS4)
- Signature:
- Date:
- Name:
- Title:
- MS4 Name:

VII. OTHER REQUIREMENTS

- A. A copy of the General Permit and NOI are attached in accordance to AZPDES General Permit for Storm Water Discharges From Construction Activities To The Water Of The United States.
- B. Projects that are within 1/4 mile of impaired or unique waters require the SWPPP to be sent to ADEQ in combination with the NOI. Refer to the Arizona Outstanding, Impaired and Not-Attaining Waters *.PDF Maps by County web link: https://www.azdot.gov/inside_adot/OES/Water_Quality/Stormwater/outstanding-unique-waters-maps-by-county.asp
- C. For further requirements, check the ADEQ's Smart NOI Web Page: <https://az.gov/app/smartnoi/>

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADSIDE DEVELOPMENT SECTION	AZPDES SWPPP INDEX SHEET	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19
DESIGN	MPK	08/26			
DRAWN	MPK	08/26			
DRAWN					
CHECKED	CV	08/26			
TEAM LEADER	BR	08/26			
ROUTE	MP				

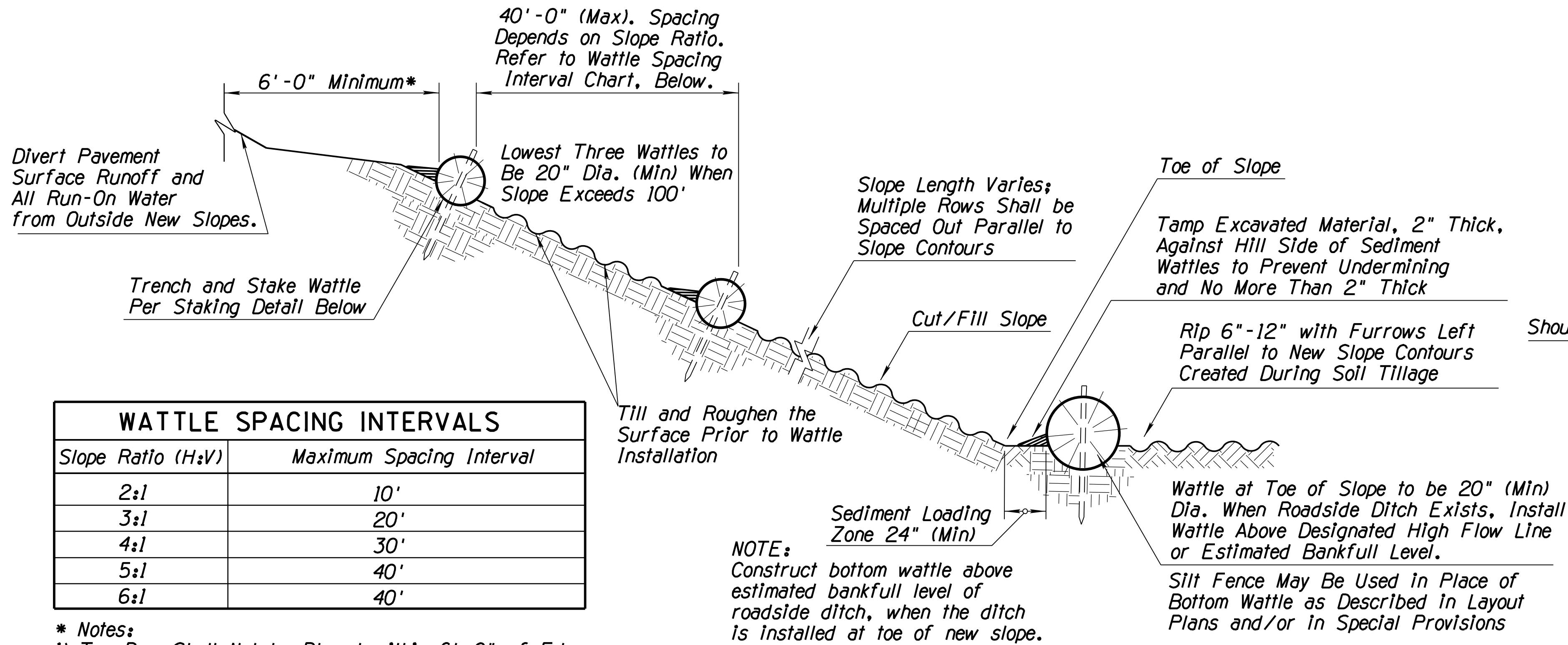
TRACS NO. SL698 OIC

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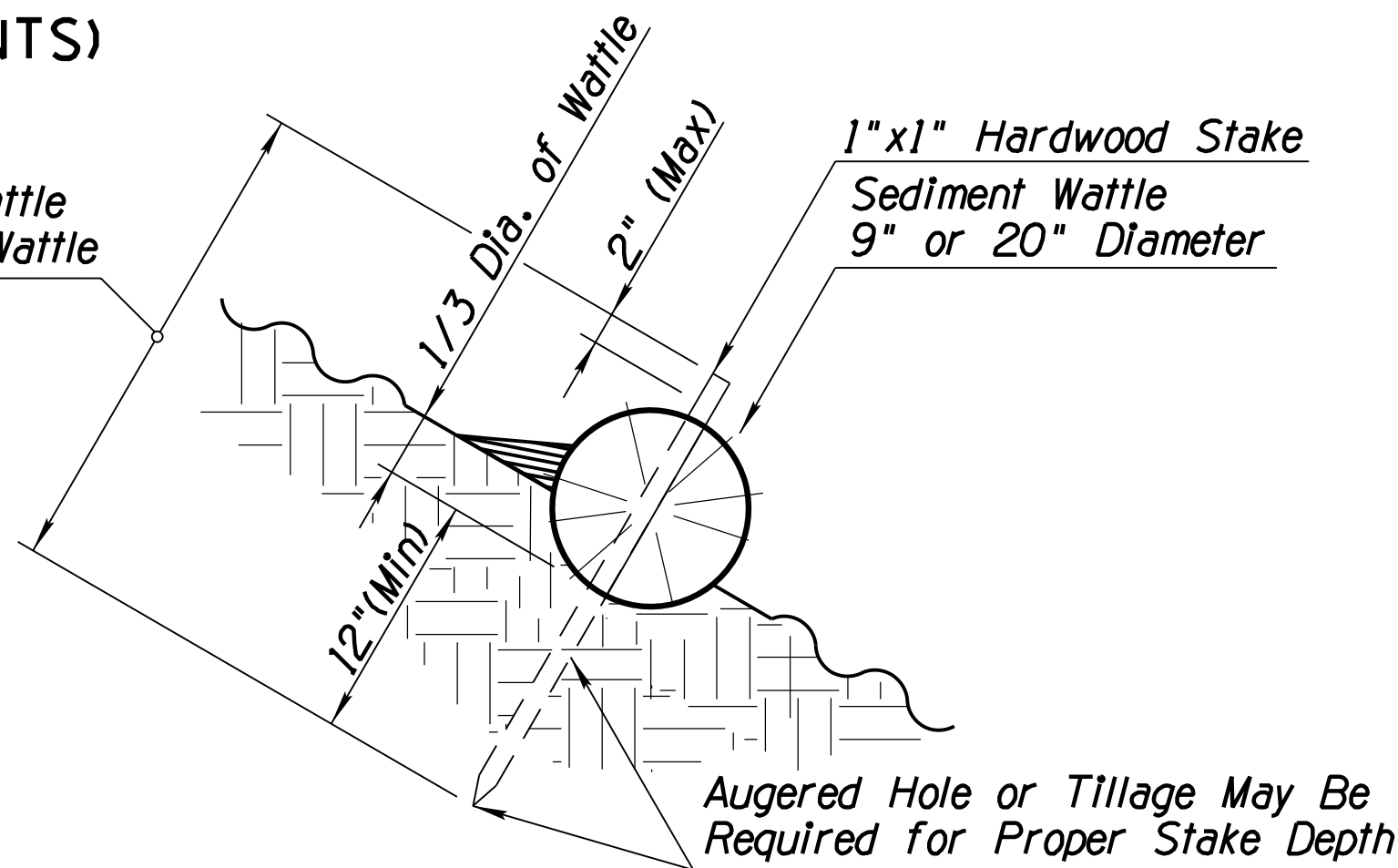
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	ITO-0(204)T	40	44	

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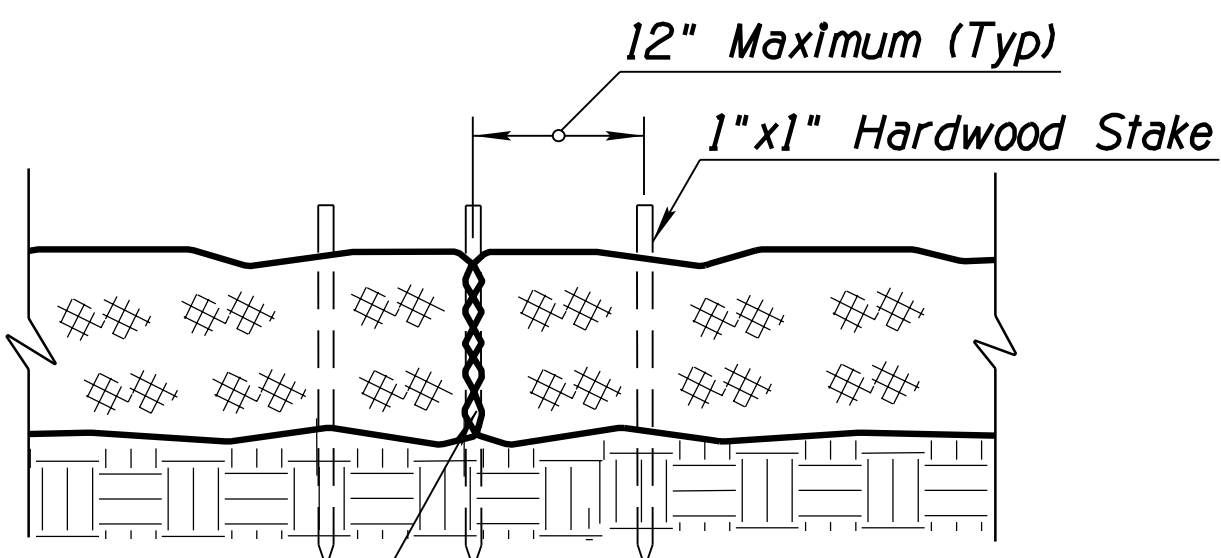


SECTION (NTS)

Stake Length:
24" for 9" Dia. Wattle
33" for 20" Dia. Wattle

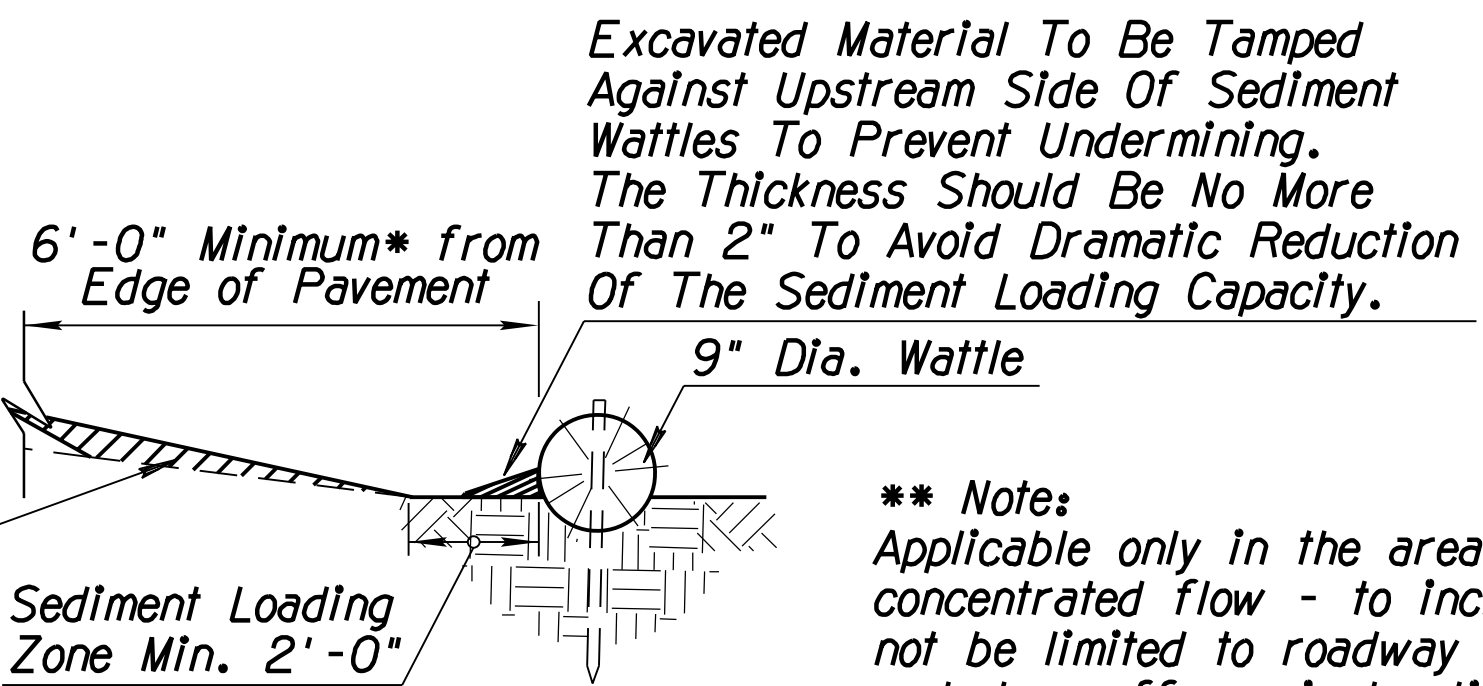


SEDIMENT WATTLE STAKING DETAIL (NTS)



SEDIMENT WATTLE OVERLAP (NTS)

Abut Wattle Ends Tight,
No Gaps. Wood Stake to
Penetrate Netting Only.

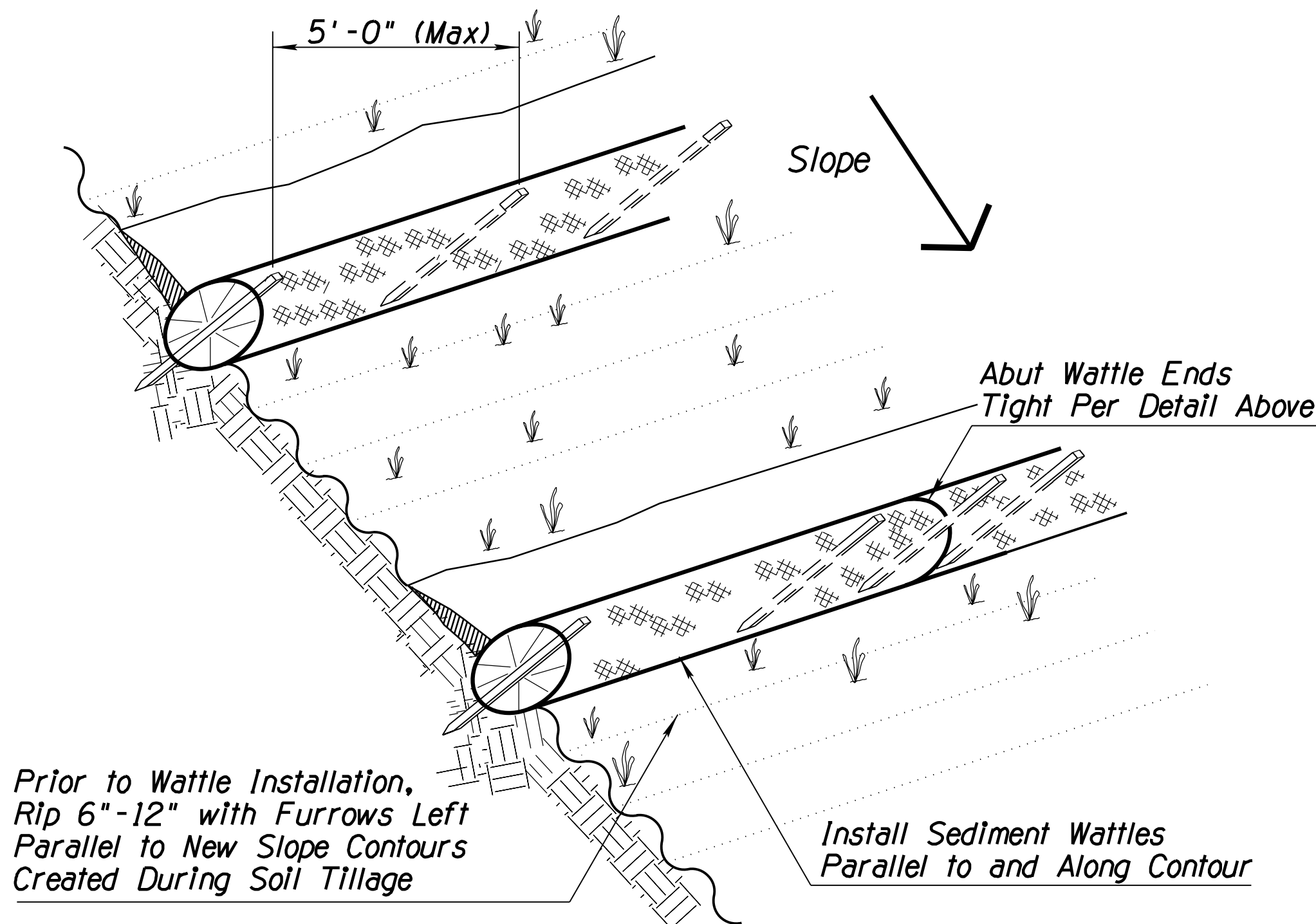


** Note:
Applicable only in the areas of concentrated flow - to include but not be limited to roadway sag spots and drop-off repair locations as per the direction of the Engineer.

NEW SHOULDER BUILDUP ** PROTECTION SECTION (NTS)

NOTES:

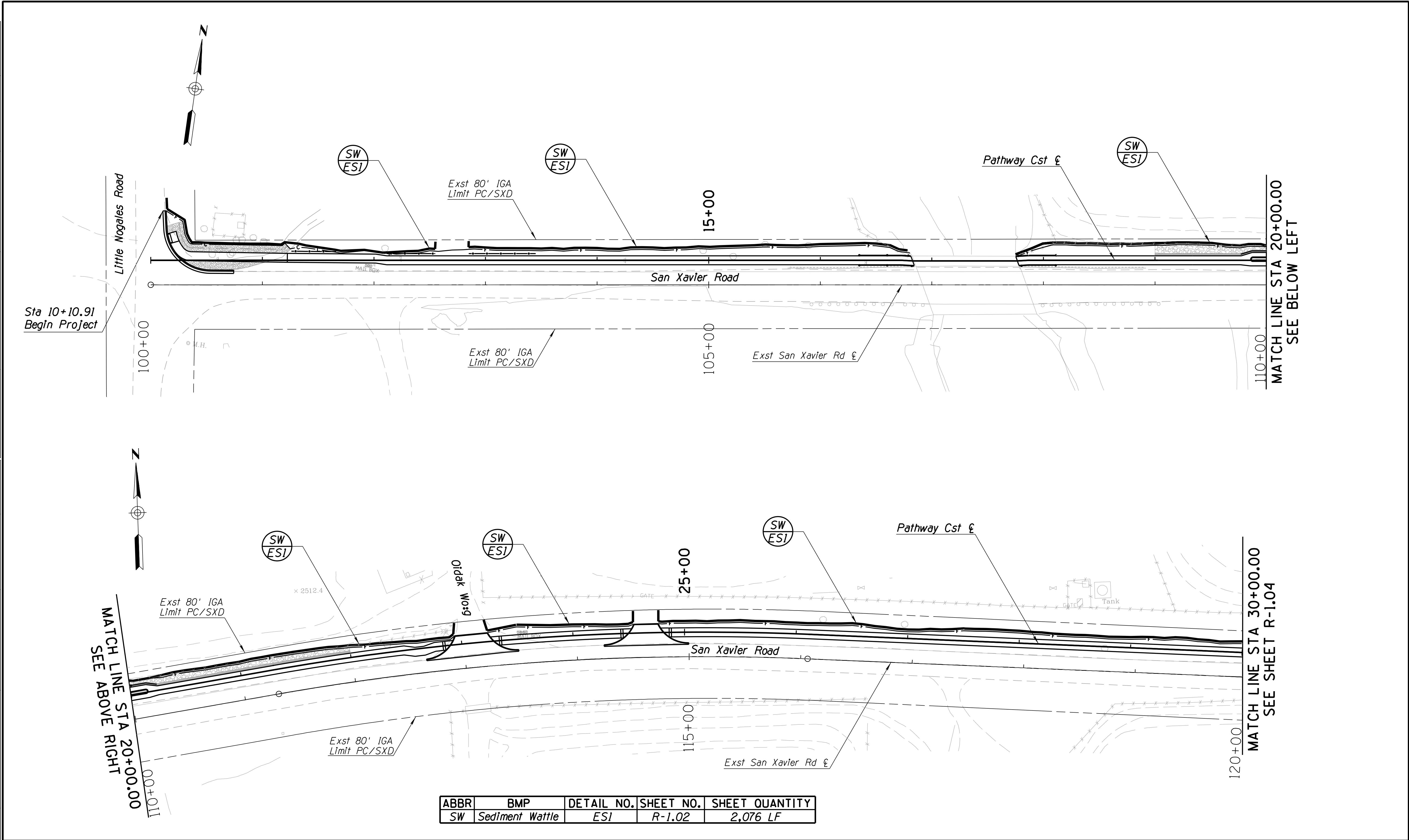
1. Install Sediment Wattles as slopes are constructed to grade or as directed by the Engineer. Select, install and maintain in conformance with manufacturers' specifications to meet site conditions for slope protection and in accordance with good engineering practices. No Sediment Wattles shall be installed in urban freeway medians, nor where cable barrier systems are employed.
2. Sediment Wattles shall be in continuous contact with trench bottom and sides. Do not overlap wattle ends on top of each other. A 20" Dia. wattle may be made from 2-3 rolled excelsior or straw blankets.
3. Butt adjoining wattles tightly against each other. Drive the first end stake of the second wattle at an angle toward the first wattle to help about them tightly.
4. Repair any rills or gullies promptly. Make field adjustments and corrections of Wattle BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
5. Construction of cut slopes 2:1 and steeper in soil and rock materials that can be ripped shall be constructed, whenever possible, by Minibenching. Refer to Slope Minibenching BMP Detail.
6. Loosening surface soil is not required where Minibenches are used. For seeded areas, tillage shall be performed to form minor ridges and furrows parallel to new slope contours and as specified in Section 805 of the Standard Specifications and these special provisions.
7. Divert and direct run-on water from outside of the slopes to the spillways and/or rock riprap/rock mulch. Diversion dikes and/or ditches are necessary on natural undisturbed slopes beyond the top limits of new slopes to divert run-on water.
8. Installation and maintenance of Sediment Wattle BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities.
9. Install and maintain Sediment Wattle BMPs to carry the stormwater of at least 2-year, 24-hour events.
10. The Sediment Wattle BMP's pay/bid item shall include all materials used for this BMP: all ground preparation, furnishing, installing, maintenance, final removal, and disposal of this temporary BMP, as well as returning the area to an acceptable condition as approved by the Engineer.
11. Refer to Standard Specification Section 810-2.06(C) for Sediment Wattle material specifications.
12. Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.



SEDIMENT WATTLE LAYOUT (NTS)

DETAIL ES1 SEDIMENT WATTLE

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADSIDE DEVELOPMENT SECTION	
DRAWN	TAO ZI FONG	7-2016	STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS	
CHECKED	HAN MENG	7-2016		
TEAM LEADER	JOHN R. HUCKO	7-2016		
ROUTE	E LEROY BRADY	7-2016		
LOCATION			SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19	
MP				
TRACS NO. SL698 OIC			ITO-0(204)T	DWG. NO. R-1.02
				OF



Professional Engineer
Matthew P. Kershner
40990
MATTHEW P. KERSHNER
ARIZONA, U.S.A.

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1700 E River Road, Suite 350
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AECOM
www.aecom.com

NAME
M KERSHNER
DATE
08/26

DESIGN
M KERSHNER
DATE
08/26

CHECKED
C VALENZUELA
DATE
08/26

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION
EROSION & SEDIMENT
CONTROL PLAN SHEET
STA 10+10 TO 30+00

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division
ARIZ.
PROJECT NO.
0000 PM ITO
FEDERAL ID NO.
ITO-0(204)T
SHEET NO.
41
TOTAL SHEETS
44
RECORD DRAWING

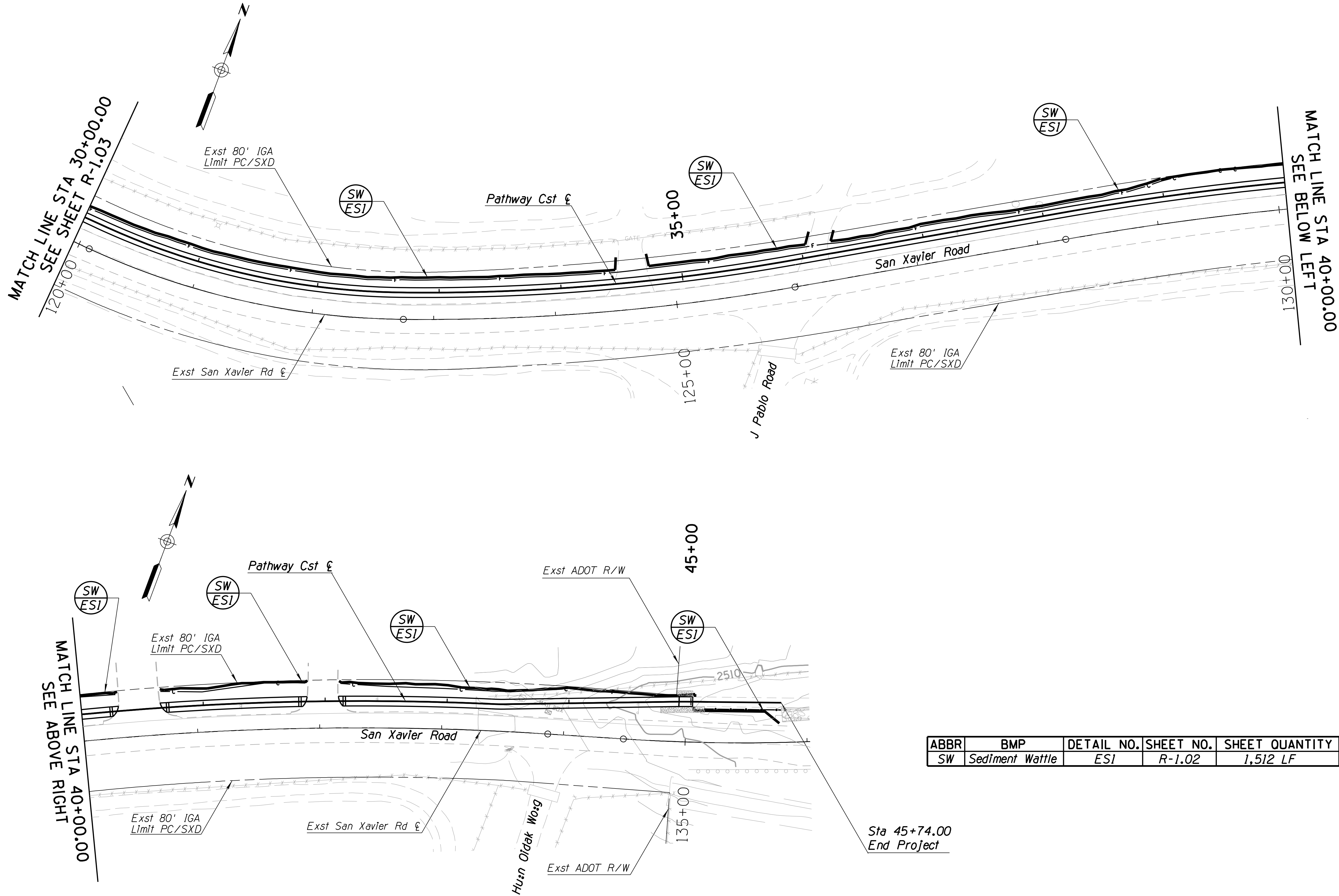
LOCATION
SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19
TRACS NO.
SL698 01C

ADOT

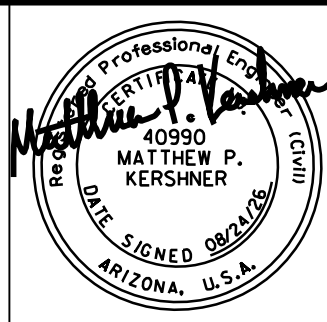
DWG No. R-1.03
OF

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8/21/2026 10:33:22 AM KershnerM



ABBR	BMP	DETAIL NO.	SHEET NO.	SHEET QUANTITY
SW	Sediment Wattle	ES1	R-1.02	1,512 LF



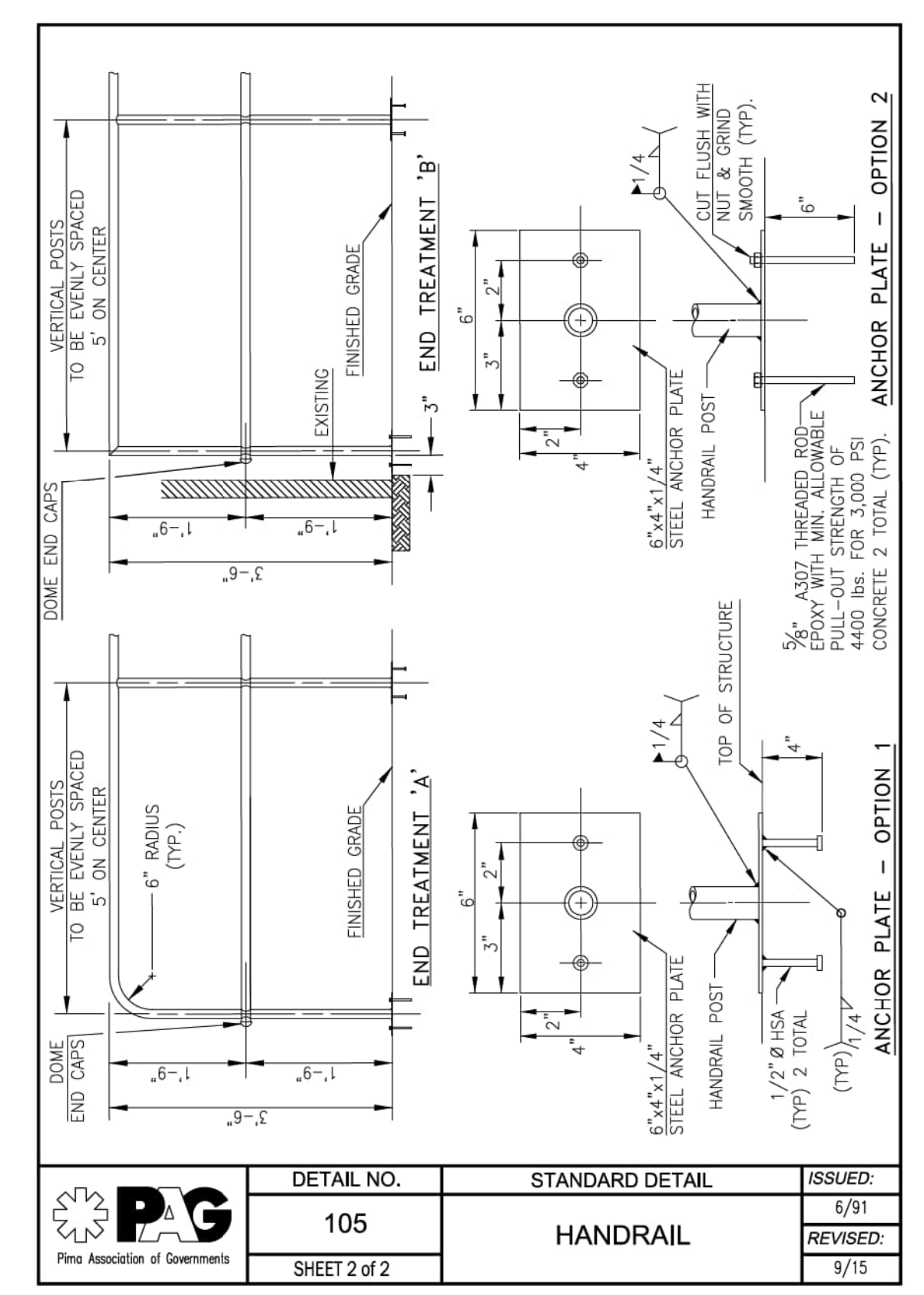
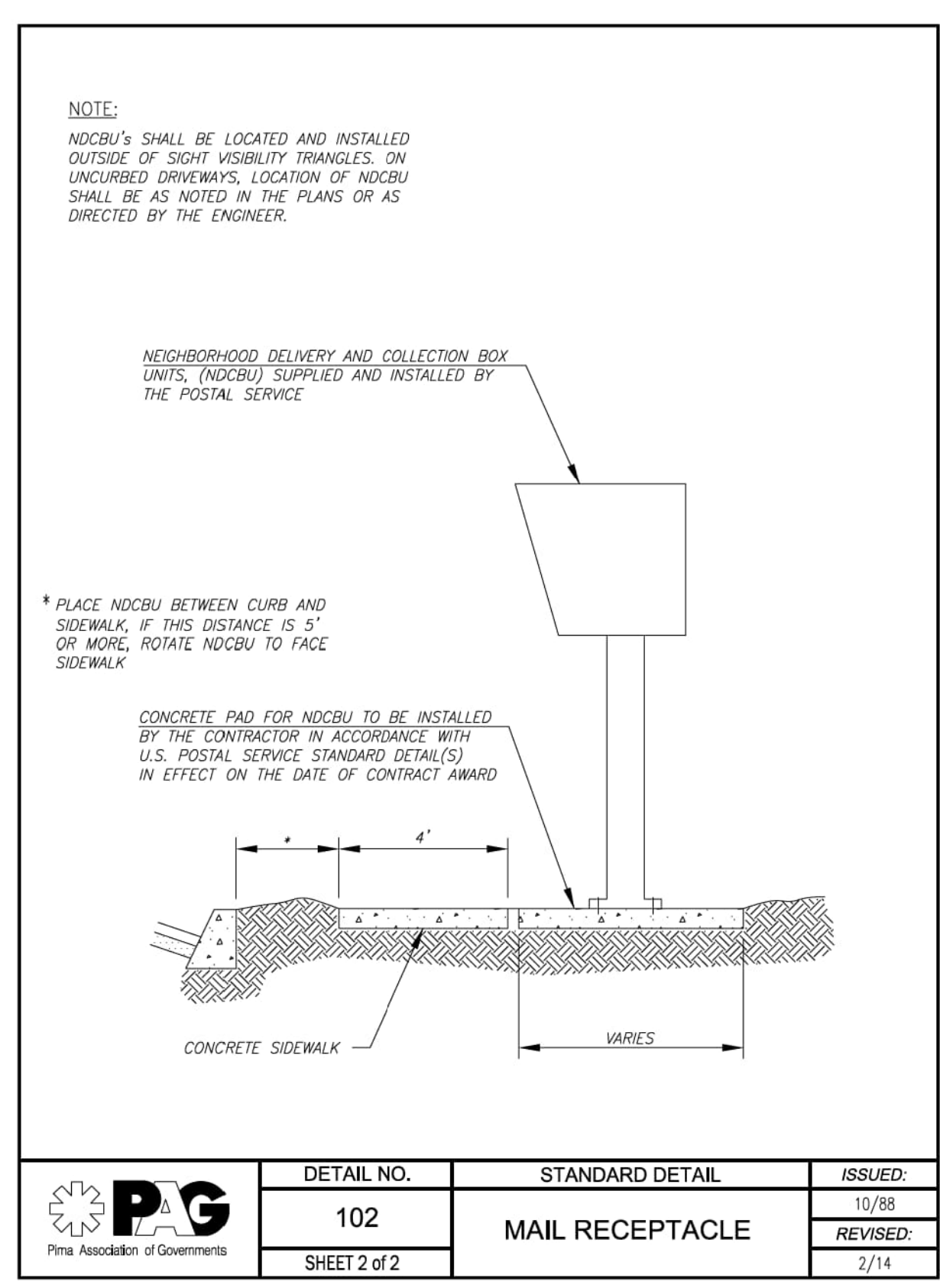
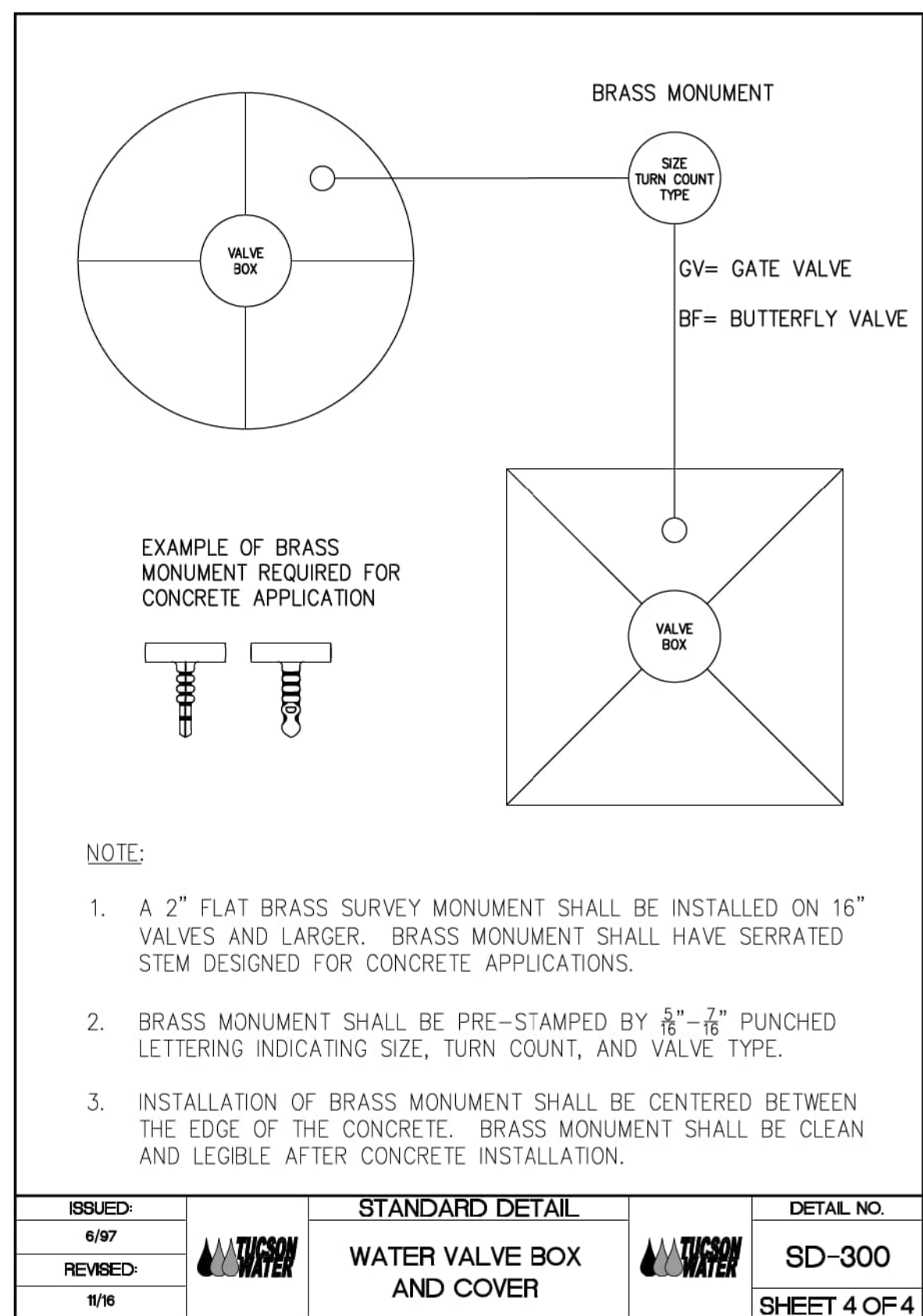
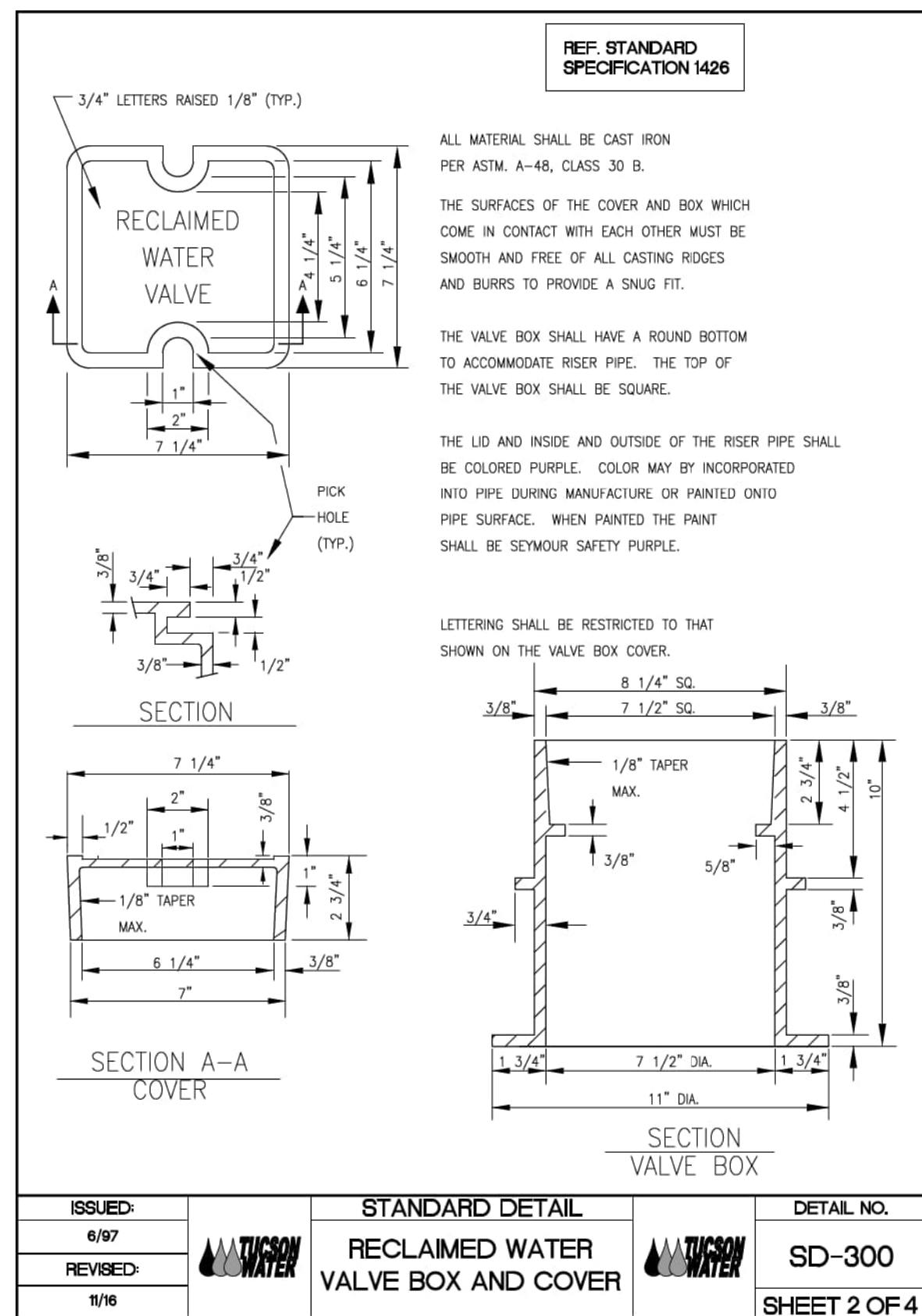
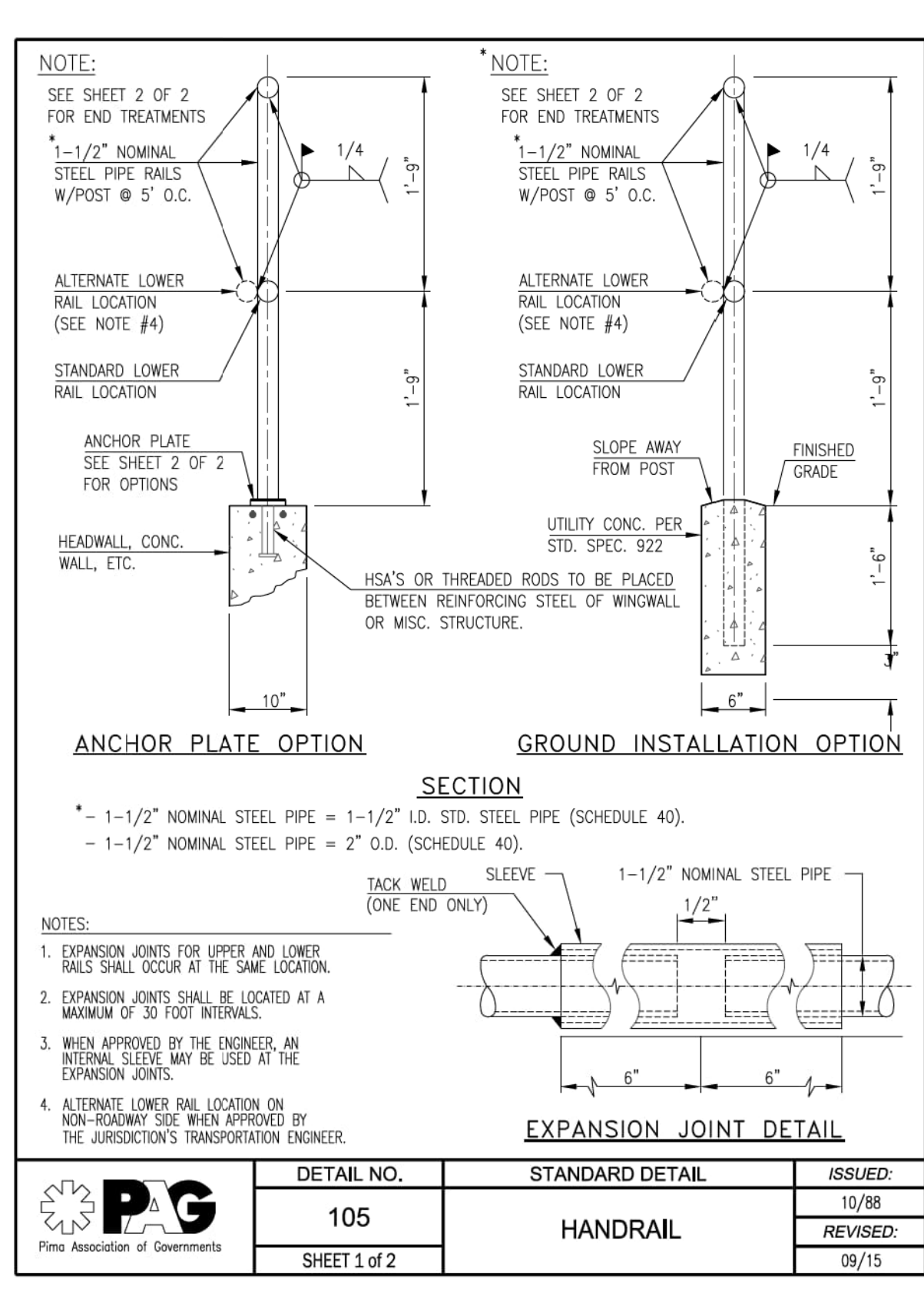
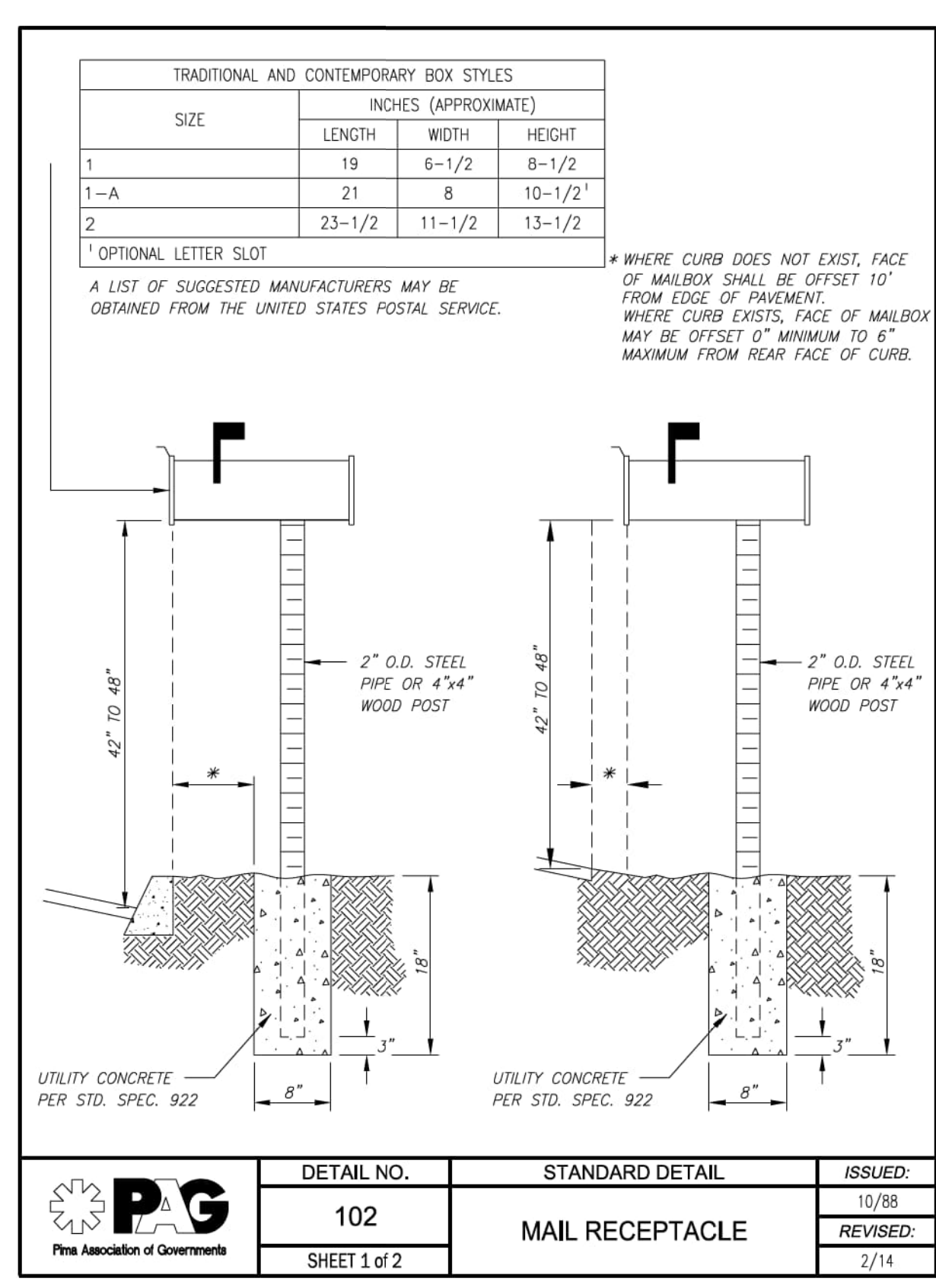
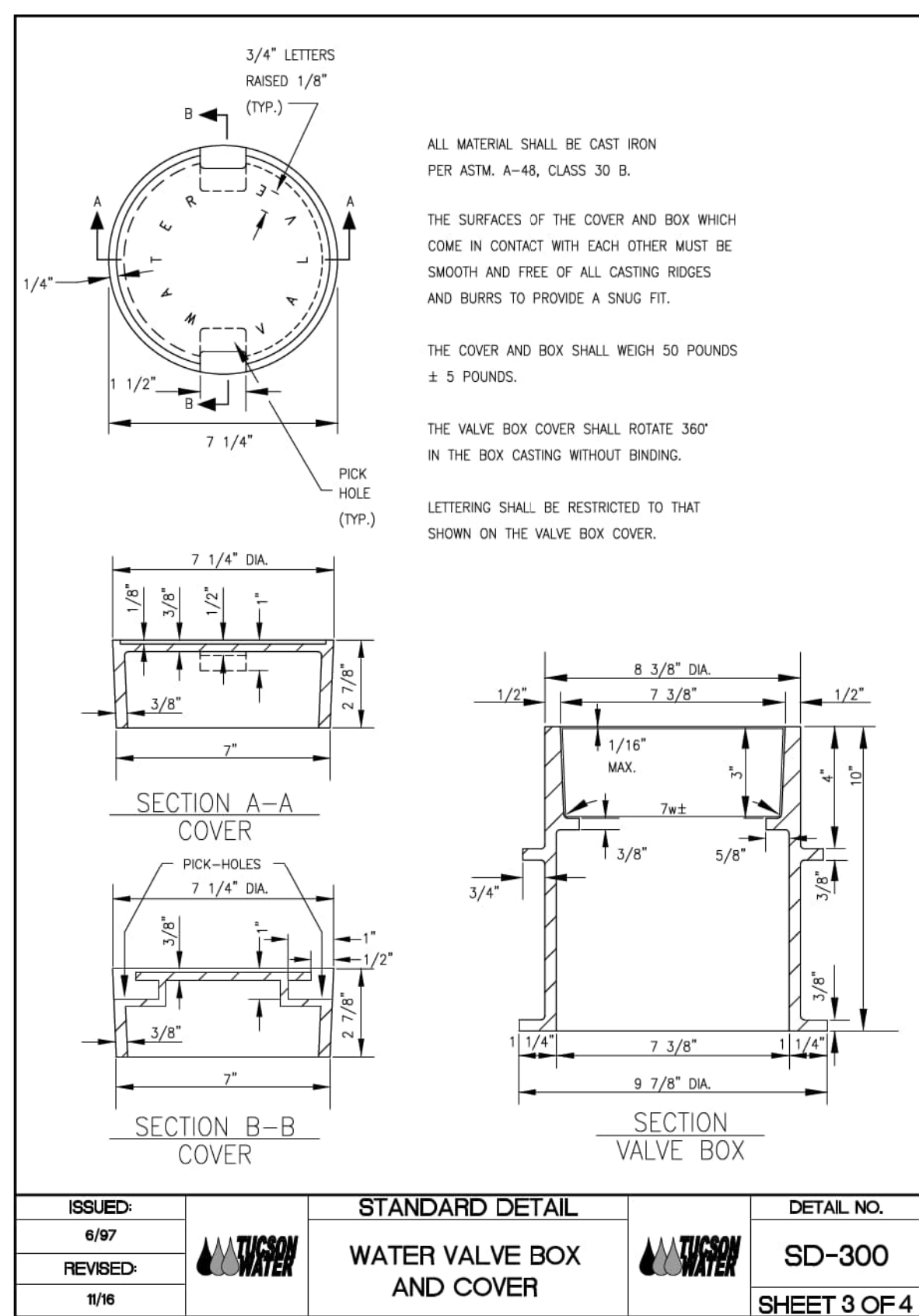
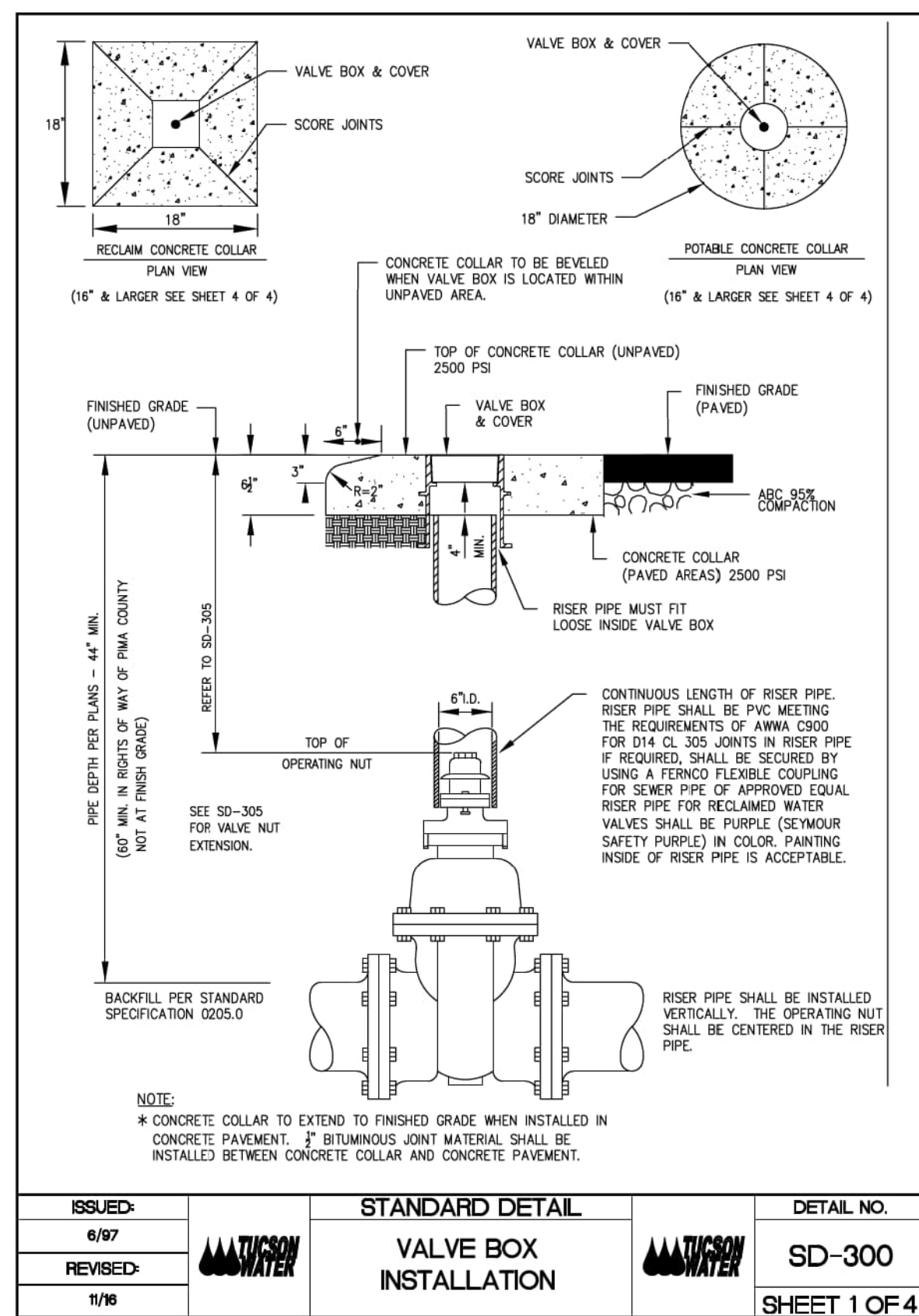
	NAME	DATE
DESIGN	M KERSHNER	08/26
DRAWN	M KERSHNER	08/26
CHECKED	C VALENZUELA	08/26

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EROSION & SEDIMENT
CONTROL PLAN SHEET
STA 30+00 TO 45+74

ROUTE	F.H.W.A. Arizona Division	STATE	ARIZ.	PROJECT NO.	0000 PM ITO	FEDERAL ID NO.	ITO-0(204)T	SHEET NO.	42	TOTAL SHEETS	44	RECORD DRAWING
MILEPOST	LOCATION SAN XAVIER ROAD; LITTLE NOGALES ROAD TO I-19											DWG No. R-1.04
STRUCTURE NO.	TRACS NO. SL698 01C		ADOT									OF



CONCRETE VERTICAL CURB-TYPE (I)

CONCRETE VERTICAL CURB AND GUTTER TYPE - I(G)

REFER TO NOTES SHEET 3 OF 3

NOT TO SCALE

	DETAIL NO.	STANDARD DETAIL	ISSUED:
	209	CONCRETE CURB	10/88
	SHEET 1 of 3		REVISED: 11/13

NOTES

- ALL CONCRETE CURBS AND TRANSITIONS SHALL BE CLASS "B" CONCRETE.
- MAXIMUM SPACING ON SCORED JOINTS SHALL BE 10 FEET.
- ONE HALF INCH THICK EXPANSION JOINTS SHALL BE LOCATED AT TANGENT POINTS IN CURB RETURNS, TRANSITIONS, AND AT A MAXIMUM OF 40 FOOT INTERVALS. EXPANSION MATERIAL SHALL ALSO BE PLACED BETWEEN CURBS AND ADJACENT STRUCTURES, SIDEWALKS, DRIVEWAYS AND HANDICAP RAMPS. THE 1/2 INCH JOINT FILLER SHALL EXTEND TO THE FULL DEPTH OF THE CONCRETE.
- CONCRETE SHALL BE FINISHED WITH A STEEL TROWEL FOLLOWED BY BRUSHING WITH A FINE BRUSH ALONG THE LENGTH OF THE CURB OR CURB AND GUTTER.
- ALL FLOW LINES OF CONCRETE GUTTERS SHALL BE TROWELED TO AN ACCURATE GRADE.
- WHEN THE SLOPE OF THE PAVEMENT IS AWAY FROM THE CURB AND GUTTER THE SLOPE OF THE GUTTER SHALL MATCH THE PAVEMENT CROSS SLOPE.
- THE HEIGHT OF THE WEDGE CURB SHALL BE DETERMINED BY THE DRAINAGE CONTAINMENT REQUIRED.
- SINGLE CURB AND CURB AND GUTTER MAY BE CONSTRUCTED BY THE USE OF FORMS OR MAY BE SLIP FORMED.
- ALL EXPOSED EDGES AND HAND TOOLED JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4 INCH RADIUS UNLESS A LARGER RADIUS IS INDICATED BY THE APPLICABLE STANDARD DETAIL OR PROJECT PLANS.

	DETAIL NO.	STANDARD DETAIL	ISSUED:
	209	CONCRETE CURB	10/88
	SHEET 3 of 3		REVISED: 9/12

H	W	L
6"	1 1/2"	9 1/2"
7"	1 3/4"	9 3/4"
8"	2"	10"

CONCRETE VERTICAL CURB-TYPE 2

CONCRETE WEDGE CURB

DEPRESSED CURB DETAIL

REFER TO NOTES SHEET 3 OF 3

NOT TO SCALE

	DETAIL NO.	STANDARD DETAIL	ISSUED:
	209	CONCRETE CURB	10/88
	SHEET 2 of 3		REVISED: 12/13