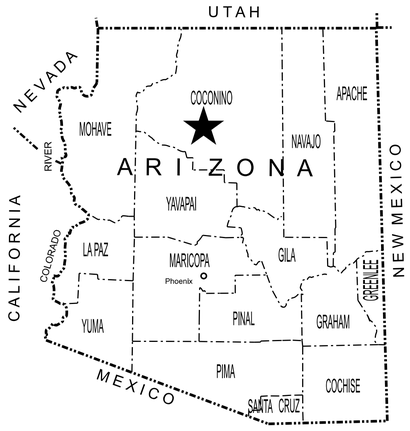
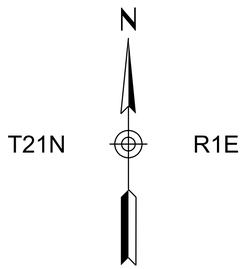




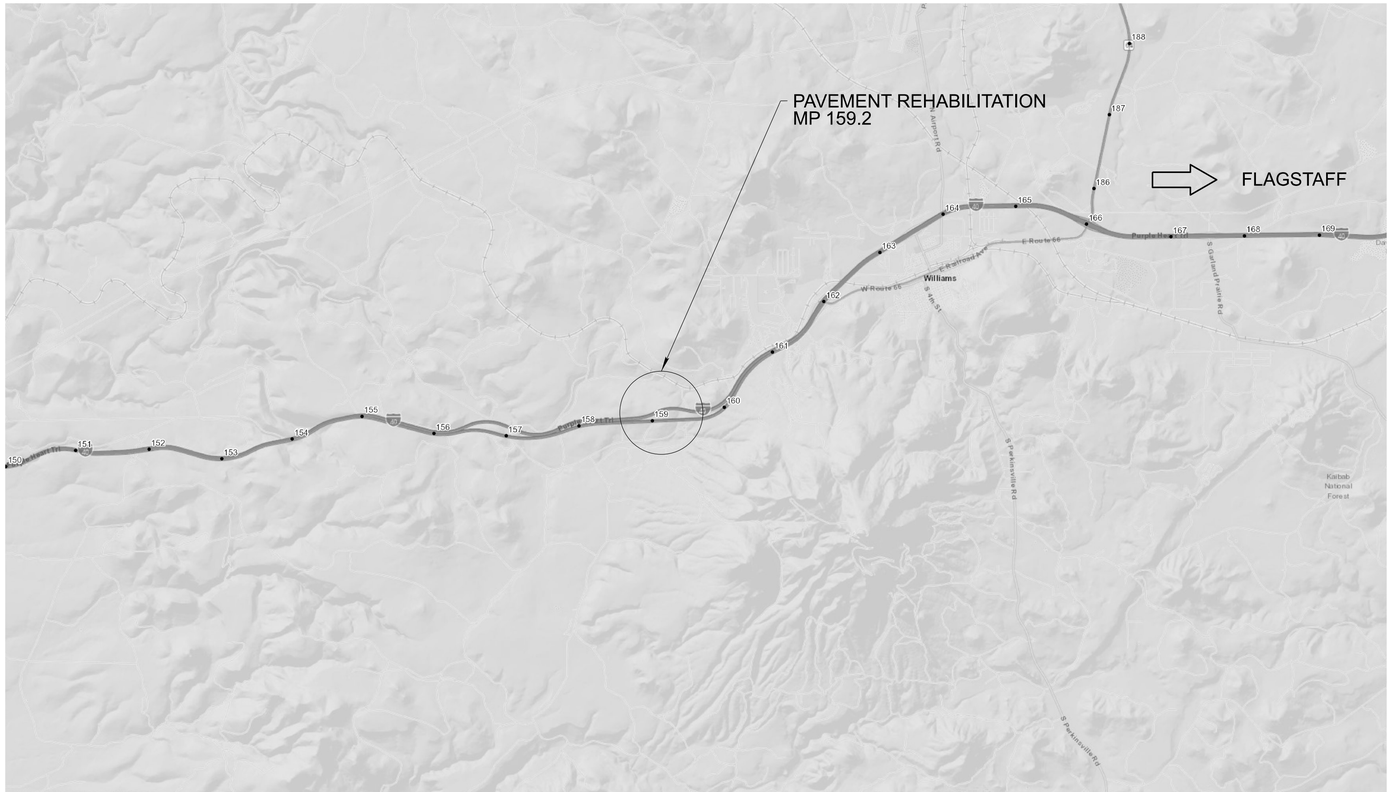
COCONINO
COUNTY

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION

PROJECT PLANS

ARIZONA
DEPARTMENT OF
TRANSPORTATION

STATE HIGHWAY
ASHFORK - FLAGSTAFF HIGHWAY
I-40



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

WEST OF WILLIAMS (ER)
PROJECT NO. 040 CN 159 F0857 01C
FEDERAL AID NO. 040-C(235)T

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
GREGORY BYRES, P.E., STATE ENGINEER

REC. DWGS. DATA	REC. DWG. DATE	_____ OF _____

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
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

	NAME	DATE
CONSTRUCTION STANDARDS	S.SHIREEN	08/25

PROJECT NO. 040 CN 159 F0857 01C — 1A OF 12

RECORD DRAWING DATA | FEDERAL ID NO. 040-C(235)T | 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
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

	NAME	DATE
SIGNING & MARKING STANDARDS	R. GALASKA	09/25

PROJECT NO. 040 CN 159 F0857 01C

1B-1 OF 12

RECORD DRAWING DATA	FEDERAL ID NO.	REC. DWG. DATE	OF
	040-C(235)T		

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

	NAME	DATE
SIGNING & MARKING STANDARDS	R. GALASKA	09/25

PROJECT NO. 040 CN 159 F0587 01C | 1B-2 OF 12

RECORD DRAWING DATA | FEDERAL ID NO. 040-C(235)T | REC. DWG. DATE | OF

REFERENCES

040-C(225)T
I-40-3-(11)143
I-40-3(19)153

MIDPOINT OF PROJECT

Central Zone
State Plane Coordinates
X=472,000
Y=1,059,000

DESIGN DATA

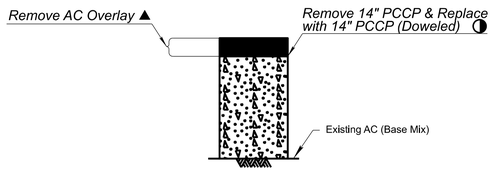
MP 157.78 TO 161.41
2024 AADT = 17,271
2044 AADT = 17,936
Design Speed = 75 MPH

LENGTH OF PROJECT

Sta 600+37.00 to 602+75.00 = 238'
Gross Length = 238' - 0.05 Miles

INDEX OF SHEETS

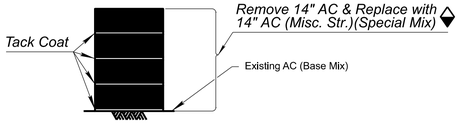
Sheet No.	Sheet Type
1	*Face Sheet*
1A-1B	*ADOT Standard Drawings*
2-3	*Design Sheet*
4	*Barrier Summary Sheet*
5	*Plan Sheet*
6-11	*Traffic Sheets*
12	*Roadside Sheet*



Total Thickness = 14"

SECTION NO. 1

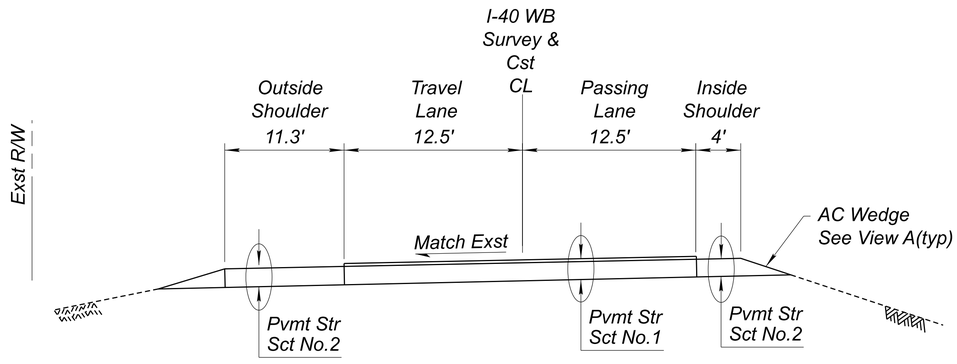
Travel Lane & Passing Lane



Total Thickness = 14"

SECTION NO. 2

Inside & Outside Shoulder



TYPICAL SECTION

Sta 600+62.00 to Sta 602+75.00

GENERAL NOTES

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

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

Project plans have been developed utilizing alignment and survey control from survey 040-C(225)T.

Delineators, object markers and mile post markers shall be removed and reset as required.

New Right of Way and easements are not required.

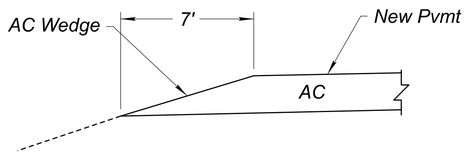
For R/W information not shown, see Right-of-Way project No. F-022-2-508, 060-B(004)A.

The average project elevation is 6,700'.

◆ *14 inches of AC (Misc. Structural) (Special Mix) shall be placed in multiple lifts, between 2 ½ inch to 4 inch thick, with tack coat in between lifts.*

◑ *The PCCP slab joint spacing shall be maximum 15 feet.*

▲ *Depth of existing temporary AC overlay, placed over the damaged PCCP shall be removed and the removal varies by 1-2". This removal will be paid for under 4020090 bid item.*



VIEW A

I-40 WB EXISTING AC SHOULDER RECONSTRUTION			
STATION	*LENGTH (ft)*	*Shoulder*	*PSS*
Sta 600+62.00 to Sta 602+75.00	*213*	*Outside Shoulder*	*2*
Sta 600+62.00 to Sta 602+50.00	*188*	*Inside Shoulder*	*2*

I-40 WB EXISTING PCCP RECONSTRUCTION			
STATION	*LENGTH (ft)*	*Road lanes*	*PSS*
Sta 600+62.00 to Sta 602+75.00	*213*	*Travel*	*1*
Sta 600+62.00 to Sta 602+50.00	*188*	*Passing*	*1*

Professional Engineer — CERTIFICATE NO. — 53416 SHARMINA SHIREEN — Date Signed 09/10/2025 — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	S SHIREEN	09/25
DRAWN	SS, DP	09/25
CHECKED	J KURLIN	09/25
TEAM LEADER	J KURLIN	09/25

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

DESIGN SHEET

ROUTE I-40 | MILEPOST | STRUCTURE NO.

F.H.W.A. Arizona Division

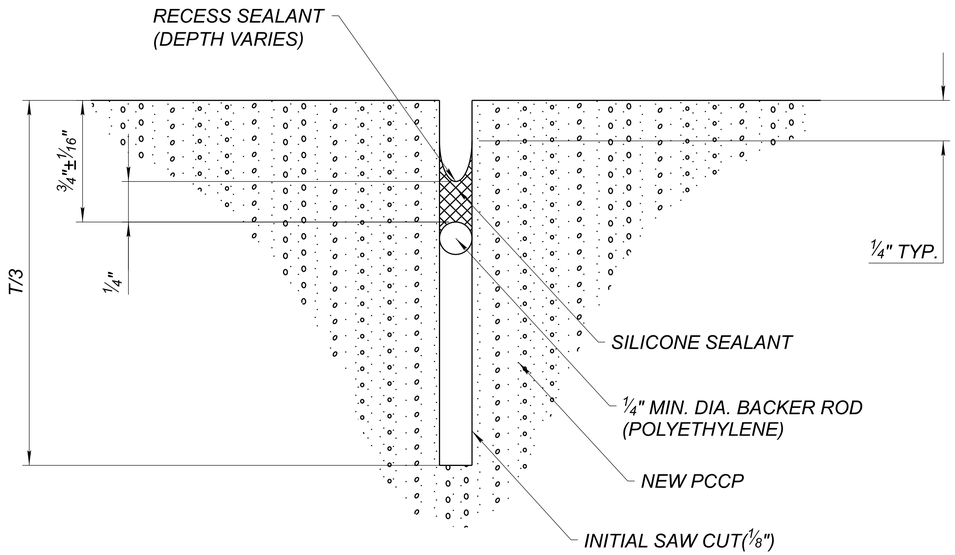
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	040 CN 159	040-C(235)T	2	12	

LOCATION WEST OF WILLIAMS (ER)

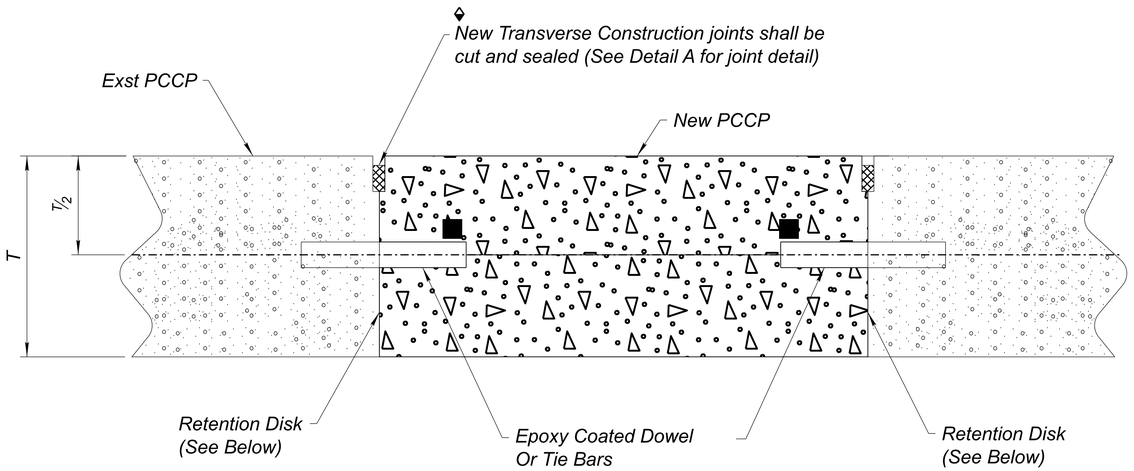
TRACS NO. F0857 01C

SHEET 1 OF 2

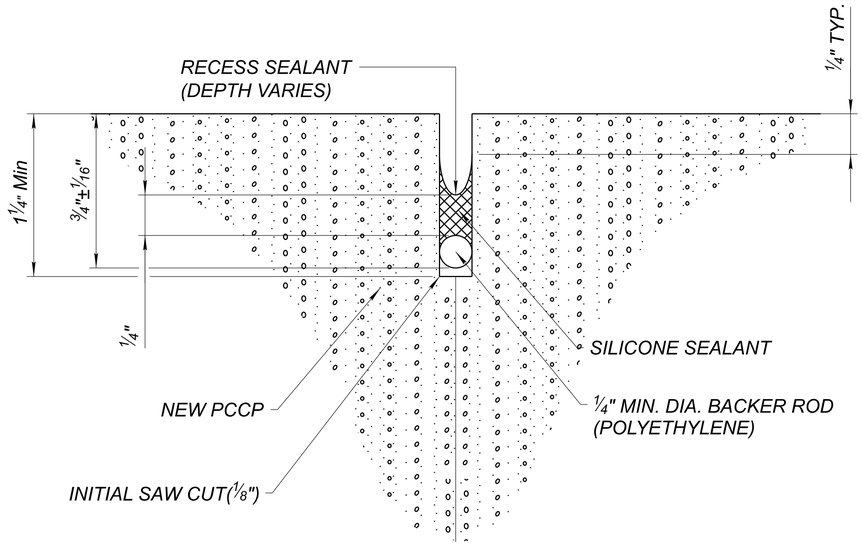
____ OF____



WB I-40 MAINLINE
TRANSVERSE AND LONGITUDINAL WEAKENED PLANE JOINTS
T = THICKNESS OF PCCP SLAB

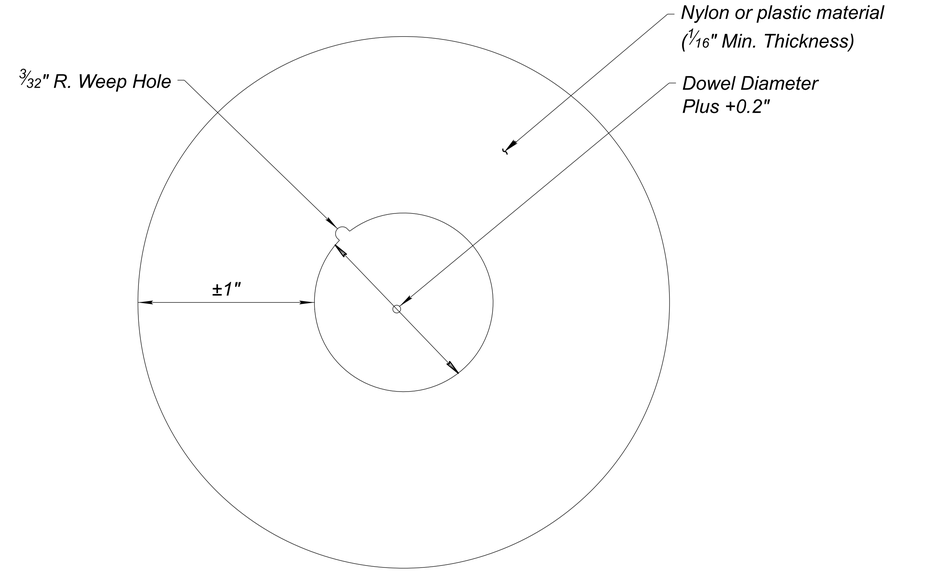


RETENTION DISK DETAIL - CROSS SECTION VIEW



DETAIL A

TRANSVERSE AND LONGITUDINAL CONSTRUCTION JOINTS



RETENTION DISK DETAIL

■ *Dowels, tie bars and bond breakers shall be placed per subsection 402-3.03. Dowel bars at constraction joints shall be placed at 12 inch intervals. For more joint details see C-07.01.*

◆ *New Construction Joints shall be saw cut and sealed per section 402-3.03 with hot applied sealant.*

T=Thickness of PCCP

Professional Engineer — CERTIFICATE — 53416 SHARMINA SHIREEN — Date Signed 09/10/25 — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	S SHIREEN	09/25
DRAWN	SS, DP	09/25
CHECKED	J KURLIN	09/25
TEAM LEADER	J KURLIN	09/25

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

DESIGN SHEET

ROUTE I-40
MILEPOST
STRUCTURE NO.

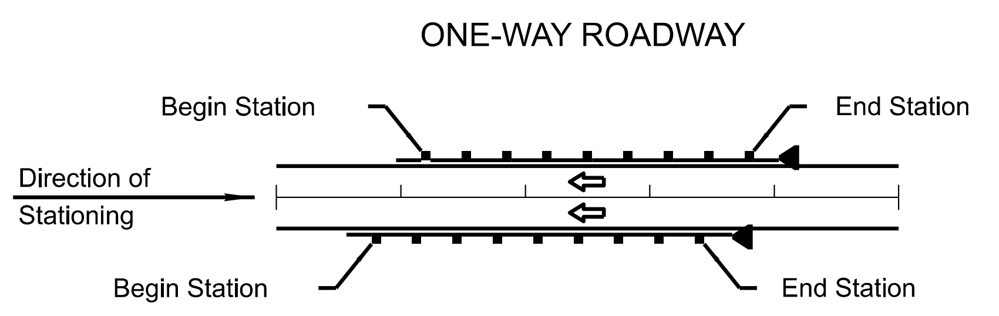
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	040 CN 159	040-C(235)T	3	12	

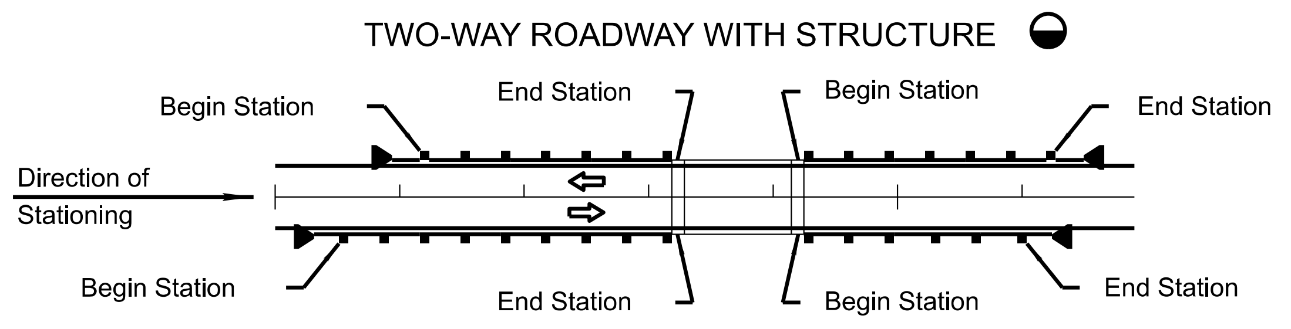
LOCATION WEST OF WILLIAMS (ER)

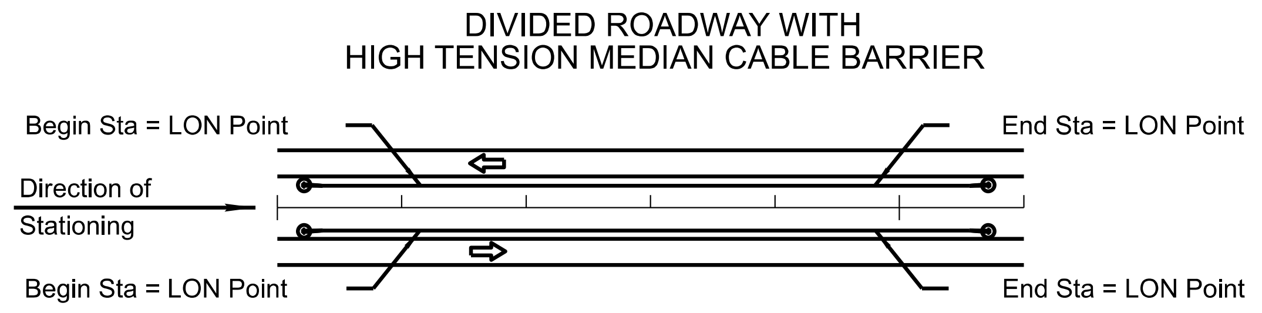
SHEET 2 OF 2

TRACS NO. F0857 01C

___ OF ___


ONE-WAY ROADWAY


TWO-WAY ROADWAY WITH STRUCTURE ◑


DIVIDED ROADWAY WITH HIGH TENSION MEDIAN CABLE BARRIER

LOCATION	◇	BARRIER																							TRANSITION					END TREATMENT																	
		NEW GUARDRAIL								EXISTING GUARDRAIL					CONCRETE BARRIER								CABLE			RAIL		CONC BARRIER			NEW						EXISTING										
																										Each		Each			Each ◪						Action				Each ◪							
Begin / End Station (Approximate) (0)	Plan Reference Number ◇	C-10.01 Guardrail Installation	C-10.03 (Timber Post)	C-10.04 (Steel Post)	Detail	Length (Linear Feet) (0.0)	C-10.06 Long Span	C-10.07 Box Culvert Post (Each)	Shop Curved Guardrail Length (Linear Feet) (0.0)	Reconstruct-Exst Post, Block Length (Linear Feet) (0.0)	Reconstruct-New Post, Block Length (Linear Feet) (0.0)	Remove and Salvage Length (Linear Feet) (0.0)	Construct from Salvage Length (Linear Feet) (0.0)	Remove Length (Linear Feet) (0.0)	Length (Linear Feet) (0.0)	C-10.40 (32" Median)	C-10.41 (42" Median)	C-10.50 (32" Half)	C-10.54 (32" Half at Piers)	C-10.55 (42" Half at Piers)	Detail	Remove Existing Length (Linear Feet) (0.0)	● High-Tension Cable Barrier Length (Linear Feet) (0)	C-12.30 Chain-Link Cable Barrier Length (Linear Feet) (0.0)	Begin = Treatment at Beginning End = Treatment at End	C-10.38 (Guardrail Taper)	C-10.31 (Steel Post)	C-10.70 32" or C-10.72 42"	C-10.74 42" to 32"	Detail	◧ Tangent C-10.20 thru C-10.24	◧ Flared C-10.26	End Anchor C-10.08 or Detail	High-Tension Cable Terminal	■ Sand Barrels C-1 or Detail	Attenuator Detail	Reconstruct (See Special Prv)	Remove and Salvage	Construct from Salvage	Remove	Tangent	Flared	End Anchor C-10.08 or Detail	High-Tension Cable Terminal	■ Sand Barrels C-1 or Detail	Attenuator Detail	BCT (L=12.5')	REMARKS
WB I-40 600+62 LT	1	X	X			213.0																			Begin	1																						Std C-10.38 for Vertical Taper Run to Partially Remain. See Note 1.
WB I-40 602+75 LT																									End	1																						
WB I-40 601+93 LT	1													82.0											Begin																							
WB I-40 602+75 LT																									End																							
WB I-40 600+37 RT	2	X	X			213.0																			Begin	1																						Std C-10.38 for Vertical Taper Run to Partially Remain. See Note 1.
WB I-40 602+50 RT																									End	1																						
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						426.0								82.0												4																						

THE ZEROS IN PARENTHESES (0.0) INDICATE THE DIMENSIONAL PRECISION FOR THAT COLUMN.

● LENGTH IS FROM LENGTH OF NEED (LON) POINT TO LON POINT. ACTUAL SEGMENT LENGTH VARIES DEPENDING ON TERMINAL TYPE. SEE SPECIAL PROVISIONS.

◧ NOTE: FOR RECORD DRAWING PREPARATION - CIRCLE END TREATMENT INSTALLED.

◑ SEE BRIDGE SHEETS FOR BRIDGE BARRIER DETAILS AND QUANTITIES.

◪ ALLOWABLE END TREATMENT OPTIONS ARE INDICATED WITH THE NUMBER '1' IN THE SPACE. BLANK SPACES ARE NOT VIABLE ALTERNATIVES.

■ ARRAY TYPE AND ANGLE IS NOTED UNDER 'REMARKS'.

NOTE 1:
REPLACE EXISITNG GUARDRAIL. DO NOT CONSTRUCT THE GUARDRAIL WIDENING.
FOR OTHER DETAILS SEE STANDARD C-10.01,

REV. DATE: 3/25

Registered Professional Engineer (Civil)
CERTIFICATE NO.
53416
SHARMINA SHIREEN
Date Signed 09/10/2025
ARIZONA, U.S.A.
Sharmina Shireen

	NAME	DATE
DESIGN	S SHIREEN	09/25
DRAWN	SS, DP	09/25
CHECKED	J KURLIN	09/25
TEAM LEADER	J KURLIN	09/25

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

BARRIER SUMMARY SHEET

ROUTE I-40
MILEPOST
STRUCTURE NO.

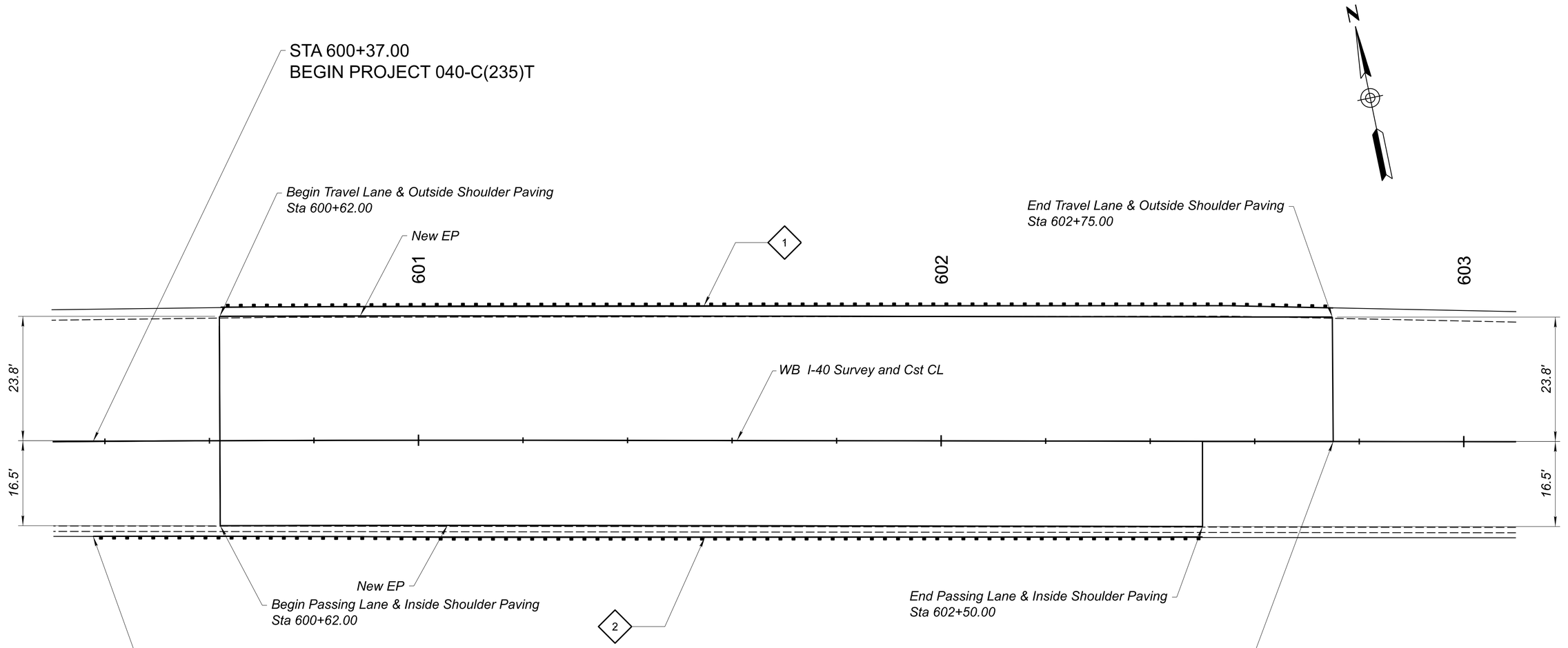
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	040 CN 159	040-C(235)T	4	12	

LOCATION WEST OF WILLIAMS (ER)

SHEET 1 OF 1

TRACS NO. F0857 01C

____ OF ____



	NAME	DATE
DESIGN	S SHIREEN	09/25
DRAWN	SS, DP	09/25
CHECKED	J KURLIN	09/25
TEAM LEADER	J KURLIN	09/25

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

PLAN SHEET

ROUTE I-40
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	040 CN 159	040-C(235)T	5	12	

LOCATION WEST OF WILLIAMS (ER)
SHEET 1 OF 1
TRACS NO. F0857 01C
___ OF___

TRAFFIC CONTROL NOTES:

1. *The traffic control plans represent a suggested method for traffic control during construction. The contractor may prepare another traffic control plan in accordance with Section 701 of the Specifications. All traffic control plans are subject to the approval of the Engineer before beginning construction.*

2. *The contractor shall abide by the traffic control requirements specified for Subsection 104.04 of the Special Provisions.*

3. *Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities, as directed/approved by the Engineer.*

4. *All existing signs in conflict with the construction activities shall be handled in accordance with Subsections 701-3.11 and 701-5.10 of the Specifications.*

5. *All construction signs shall have black letters on an orange background, except as otherwise indicated.*

6. *The retroreflective sheeting on all construction signs and delineation for impact attenuators shall meet the criteria established for Type VIII, IX, or XI sheeting in accordance with ASTM D4956, except all black-on-white signs, barricades, vertical panels, and other work zone traffic control devices may have Type IV sheeting. All orange signs shall have fluorescent sheeting.*

7. *For signs installed on embedded posts, sign mounting height is a minimum of 7 feet as measured from the bottom of the sign to the near edge of the pavement. All other short-term signs may be installed on portable stands at least 5 feet above the pavement.*

8. *The nearest edge or corner of a sign shall be approximately 12 feet from the nearest edge of pavement or 6 feet behind guardrail for all signs mounted on embedded posts.*

9. *Flags shall be mounted on top of all construction signs, except "End Road Work Thank You". Type A flashing warning lights shall be required on all nighttime construction signs, except "End Road Work Thank You".*

10. *Channelizing devices shall be placed 40 feet on center in tangent sections. A Type C steady-burning light shall be mounted on every Type 1 or Type 2 barricade or vertical panels used for channelization in tangent sections during nighttime activities.*

11. *Construction signs shall not be displayed to traffic more than 24 hours prior to the actual start of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after the completion of the construction activities.*

12. *While traffic control items are not in use, the contractor shall remove these items to a location at least 30 feet from the edge of the paved roadway. This includes all supports without sign panels. Any signs which are not in use but which cannot be moved at least 30 feet from the roadway shall be covered so the public cannot read the legends.*

13. *The contractor shall clean the roadway surface to the satisfaction of the Engineer, by sweeping and air-jet blowing, immediately prior to the placement of all temporary pavement markings.*

14. *When no longer required, temp pavement markings shall be removed.*

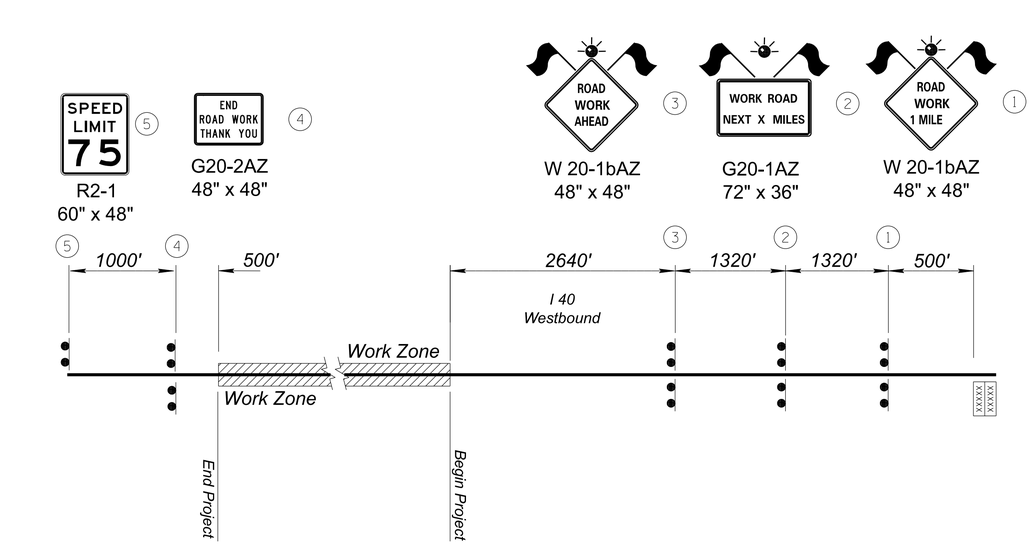
15. *All drawings are schematic only and not to scale.*

SIGN LEGEND:

Signs on Spring Stands

Signs on Embedded Posts

Changeable Message Board (XXXXX / XXXXX)



DETAIL A

ADVANCED WARNING SIGNS

Registered Professional Engineer — Certificate No. 47689 — Richard L. Galaska — Date Signed 9/10/25 — Arizona, U.S.A.

	NAME	DATE
DESIGN	R. GALASKA	09/25
DRAWN	R. GALASKA	09/25
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL NOTES

ROUTE I 40
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	040 CN 159	040-C(235)T	6	12	

LOCATION WEST OF WILLIAMS (ER)

TRACS NO. F0857 01C

SHEET ___ OF ___

ACTIVITY NO.	*DURATION	CONSTRUCTION ACTIVITY	TRAFFIC CONTROL	COMMENTS
1	1 Working Day	Install Advanced Warning Signs and Temporary Concrete Barrier (TCB) for Travel Lane Reconstruction.	Install advanced warning signing and TCB in accordance with Traffic Control Details A & B. Taraffic Control for TCB installation shall generally conform to Figure SA-5R of the 2025 Arizona Department of Transportation Temporary Traffic Control Design Guidelines (ADOT TTCDG).	Contractor shall maintain one through lane in each direction at all times. Provide off duty uniformed officer/s as directed by the Engineer. Provide truck mounted attenuator (TMA) for installing and removing advanced warning signs and TCB.
2	22 Working Days	Travel Lane Construction Activities.	Traffic control for travel lane construction shall generally conform to Traffic Control Detail B.	Provide off duty uniformed officer/s in advance of lane closures, as directed by the Engineer. Contractor shall maintain one through lane in each direction at all times. "KEEP LEFT" and "KEEP RIGHT" signs may be utilized and spaced at 500' throughout the work zone as directed by the Engineer.
3	1 Working Day	Relocate Advanced Warning Signs and TCB for Passing Lane construction activities.	Relocate advanced warning signing and TCB in accordance with Traffic Control Detail C. Taraffic Control for TCB relocation shall generally conform to Figure SA-5L of the 2025 ADOT TTCDG.	Contractor shall maintain one through lane in each direction at all times. Provide off duty uniformed officer/s as directed by the Engineer. Provide TMA for installing and removing advanced warning signs and TCB.
4	22 Working Days	Passing Lane Construction Activities.	Traffic control for passing lane construction shall generally conform to Traffic Control Detail C.	Provide off duty uniformed officer/s in advance of lane closures, as directed by the Engineer. Contractor shall maintain one through lane in each direction at all times. "KEEP LEFT" and "KEEP RIGHT" signs may be utilized and spaced at 500' throughout the work zone as directed by the Engineer.
5	1 Working Day	Remove Advanced Warning Signs and TCB for Passing Lane construction activities.	Traffic Control for TCB removal shall generally conform to Figure SA-5L of the 2025 ADOT TTCDG.	Contractor shall maintain one through lane in each direction at all times. Provide off duty uniformed officer/s as directed by the Engineer. Provide TMA for installing and removing advanced warning signs and TCB.
6	1 Working Day	Place Final Pavement Marking	Traffic control shall be in accordance with Figure SA-19D and 19E of the 2025 ADOT TTCDG.	Provide off duty uniformed officer/s to shadow operation, as directed by the Engineer. Provide TMA for activities directly adjacent to traffic as directed by the Engineer.

***NOTE:Construction activity durations do not include 30 day "wait time" before applying final pavement markings.**

	NAME	DATE
DESIGN	R. GALASKA	09/25
DRAWN	R. GALASKA	09/25
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

MAINTENANCE OF TRAFFIC TABLE

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
I 40		ARIZ.	040 CN 159	040-C(235)T	7	12	
MILEPOST	LOCATION WEST OF WILLIAMS (ER)						SHEET OF
STRUCTURE NO.	TRACS NO. F0857 01C						___ OF___

Item No.	Description	Method of Measurement	Activity 1	Activity 2	Activity 3	Activity 4	Activity 5	Activity 6	**TOTAL**
7010025	Temporary Impact Attenuator (In-Line Energy Absorbing Terminal)	EACH	1	0	1	0	0	0	2
7010026	Temporary Impact Attenuator (In-Line EAT)(In Use)	Each Day	0	31	0	31	0	0	62
7015010	Temporary Concrete Barrier (Install and Remove)	L FT	525	0	525	0	0	0	1,050
7016020	TEMPORARY CONCRETE BARRIER (IN USE)	L FT.- Day	0	16,275	0	16,275	0	0	32,550
7016030	BARRICADE (TYPE 1, TYPE 2, VERT.PANEL, TUBULAR MARKER)	EACH-DAY	0	1,240	0	1,240	0	0	2,480
7016031	BARRICADE (TYPE 3, HIGH LEVEL FLAG TREES)	EACH-DAY	0	62	0	62	0	0	124
7016032	PORTABLE SIGN STAND (RIGID)	EACH-DAY	5	62	2	62	2	5	138
7016033	PORTABLE SIGN STAND (SPRING TYPE)	EACH-DAY	5	62	2	62	2	5	138
7016035	WARNING LIGHTS (TYPE A)	EACH-DAY	630	310	19	310	19	0	1,288
7016037	WARNING LIGHTS (TYPE C)	EACH-DAY	0	1,240	0	1,240	0	0	2,480
7016039	EMBEDDED SIGN POST	EACH-DAY	630	589	19	589	19	0	1,846
7016050	TRUCK MOUNTED ATTENUATOR	EACH-DAY	1	0	1	0	1	2	5
7016051	TEMPORARY SIGN (LESS THAN 10 S.F.)	EACH-DAY	70	0	0	0	0	0	70
7016052	TEMPORARY SIGN (10 S.F. OR MORE)	EACH-DAY	630	310	19	310	19	10	1,298
7016061	FLASHING ARROW PANEL	EACH-DAY	1	31	1	31	1	1	66
7016067	CHANGEABLE MESSAGE BOARD (CONTRACTOR FURNISHED)	EACH-DAY	2	31	2	31	2	1	69
7016081	Flagging Services (DPS)	HOUR	12	0	12	0	12	12	48

Registered Professional Engineer
CERTIFICATE NO.
47689
RICHARD L. GALASKA
(Civil)
Date Signed 9/10/25
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	R. GALASKA	09/25
DRAWN	R. GALASKA	09/25
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL QUANTITIES TABLE

ROUTE I 40
MILEPOST
STRUCTURE NO.

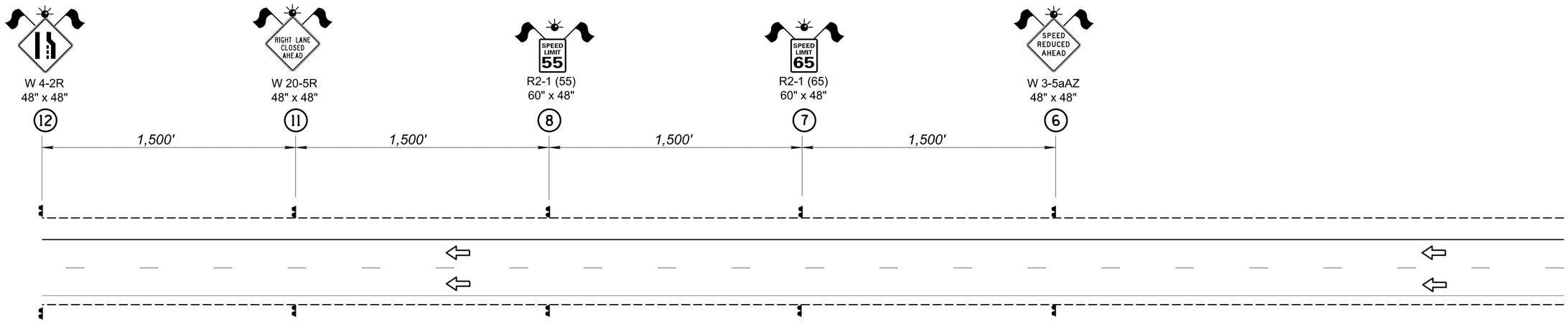
F.H.W.A. Arizona Division

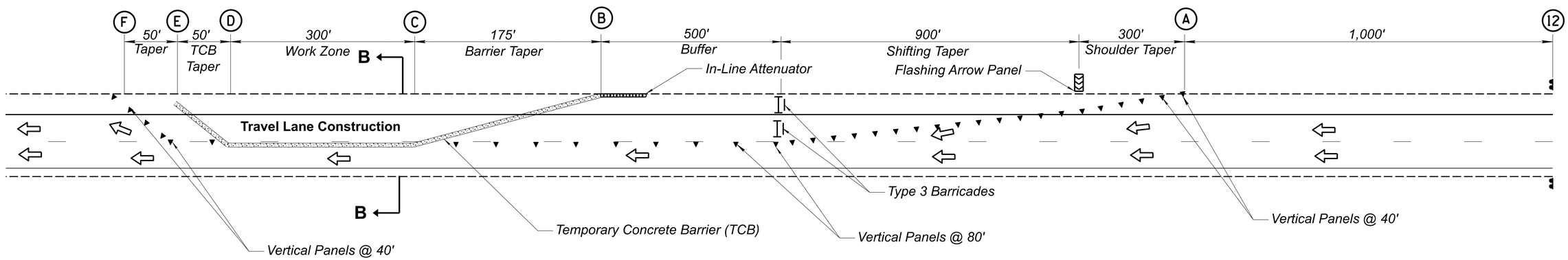
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	040 CN 159	040-C(235)T	8	12	

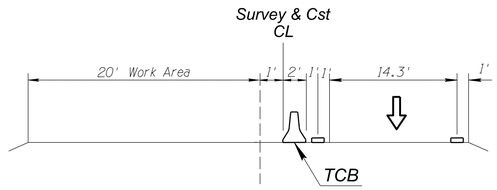
LOCATION WEST OF WILLIAMS (ER)

TRACS NO. F0857 01C

SHEET ___ OF ___







SECTION B-B

DETAIL B

TRAFFIC CONTROL DETAIL

	NAME	DATE
DESIGN	R. GALASKA	09/25
DRAWN	R. GALASKA	09/25
CHECKED		
TEAM LEADER	Q. FAROL	

Registered Professional Engineer — CERTIFICATE NO. 47689 — RICHARD L. GALASKA — Date Signed 9/10/25 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION
TRAFFIC CONTROL LAYOUT
TRAVEL LANE CONSTRUCTION

ROUTE I 40
MILEPOST
STRUCTURE NO.

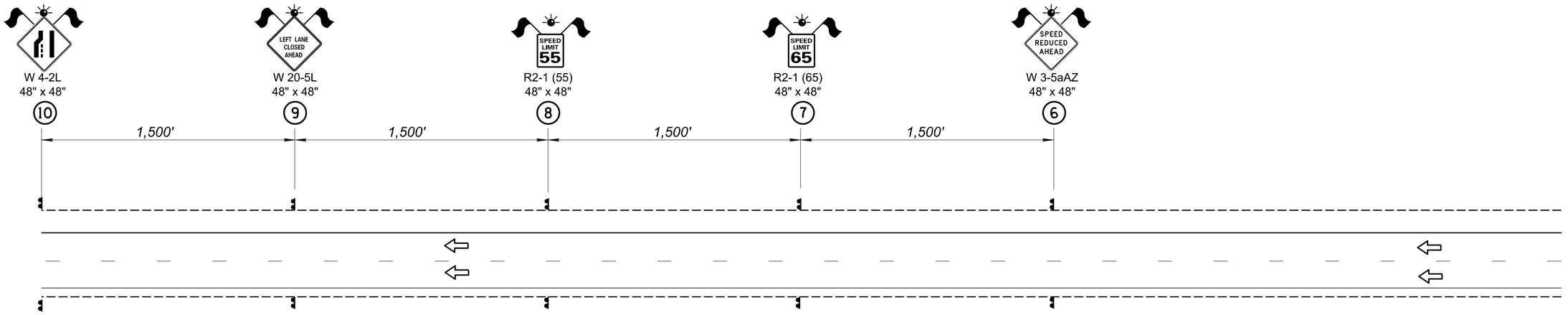
F.H.W.A. Arizona Division

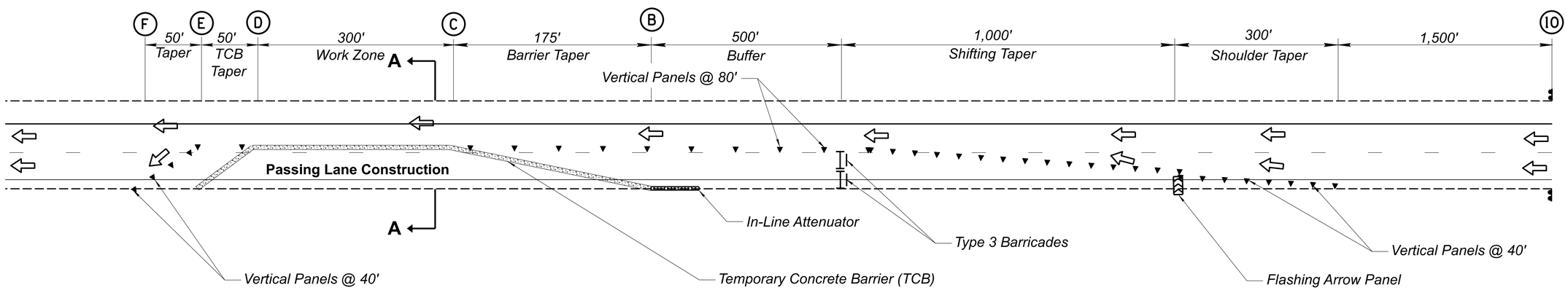
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	040 CN 159	040-C(235)T	9	12	

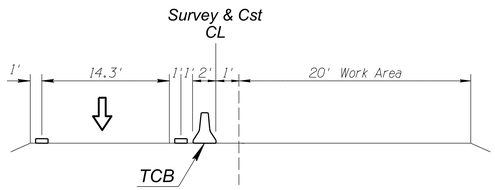
LOCATION WEST OF WILLIAMS (ER)

TRACS NO. F0857 01C

SHEET OF ___ OF ___







SECTION A-A

DETAIL C

TRAFFIC CONTROL DETAIL

	NAME	DATE
DESIGN	R. GALASKA	09/25
DRAWN	R. GALASKA	09/25
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION
TRAFFIC CONTROL LAYOUT
PASSING LANE CONSTRUCTION

ROUTE I 40
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	040 CN 159	040-C(235)T	10	12	

LOCATION WEST OF WILLIAMS (ER)

TRACS NO. F0857 01C

SHEET OF ___ OF ___

PAVEMENT MARKING NOTES

1. *The pavement marking plans have been designed in accordance with the current ADOT Traffic Engineering Construction Standard Drawings. On-line references for current and historical standard drawings are included below.*

2. *It is the contractor's responsibilty to ensure that the final surface course is placed so that the striping is offset 1 foot clear of the construction joint, unless otherwise directed by the Engineer.*

3. *The contractor shall be responsible for layout and installation of pavement markings on the final surface course following points that have been set no more than 50 feet apart on the alignment of the yellow striping.*

4. *The contractor shall break the center lines and edge lines adjacent to turnouts across any intersections with dedicated roadways or as otherwise directed by the Engineer. In addition, the contractor shall not place any center lines within 10 feet of the nearest edge of pavement of the intersecting roadway.*

5. *Final striping shall be two-part epoxy pavement marking material placed at a minimum of 30 calendar days after the initial striping. All other markings shall be applied at the same time.*

6. *The contractor shall clean the roadway surface to the satisfaction of the Engineer, by sweeping and air-jet blowing, immediately prior to the placement of all epoxy pavement markings. The roadway surface shall be dry. The pavement teparature shall not be less than 40 degrees F and the air teparature wind chill factor shall not be less than 35 degrees F for the pacement of epoxy pavement markings.*

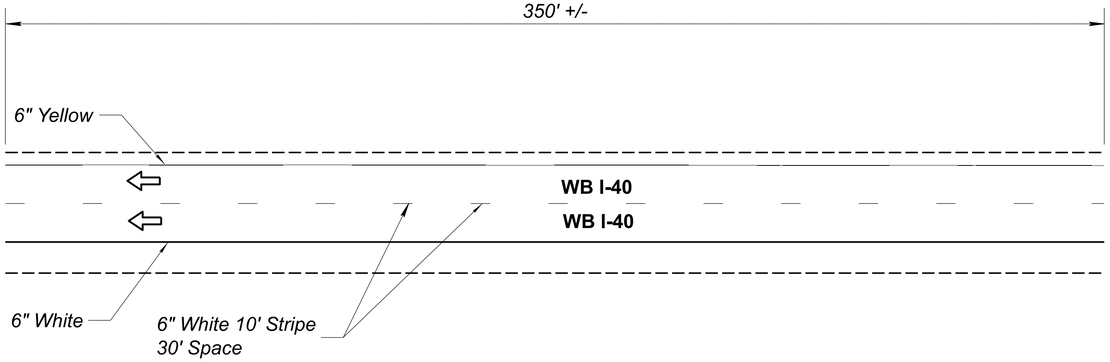
7. *At the completion of the final pavement surface each day, center lines, lane lines and edge lines, shall be striped with one application of Type I Waterborne paint at the locations of the permanent striping. The paint shall have a minimum thickness of 15 mils wet.*

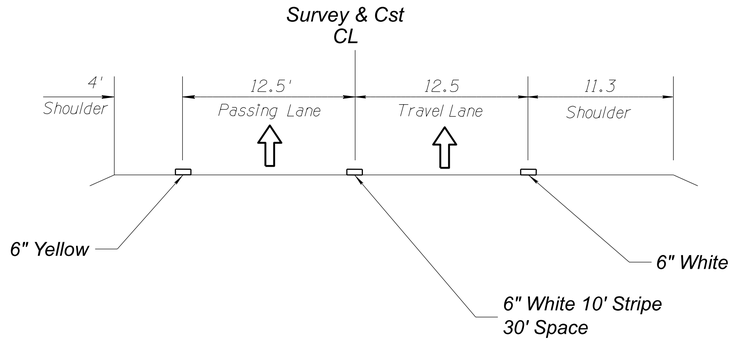
8. *All drawings are schematic only and not to scale. The contractor shall follow all dimensions and details when installing pavement markings.*

9. *The dimensions shown to pavement striping are to the center of the striping or, in the case of double striping, to the center of the double striping.*

10. *Rumble strips shall be placed in accordance with Standard Drawing M-22.*

PAVEMENT MARKING LAYOUT





Item Number	Description	Unit of Measurement	Quantity
7050074	REMOVAL OF CURING COMPOUND (PCCP) (STRIPING)	L. Ft.	1,200
7080201	Waterborne Type I Pavement Marking (Painted) (White)	L. Ft.	450
7080202	Waterborne Type I Pavement Marking (Painted) (Yellow)	L. Ft.	350
7090001	DUAL COMPONENT PAVEMENT MARKING (WHITE EPOXY)	L. Ft.	675
7090002	DUAL COMPONENT PAVEMENT MARKING (YELLOW EPOXY)	L. Ft.	525
9280036	GROUND-IN RUMBLE STRIP (8 INCH)(Inside Shoulder)	L. Ft.	350
9280037	GROUND-IN RUMBLE STRIP (12 INCH)(Outside Shoulder)	L. Ft.	350

Registered Professional Engineer — Certificate No. 47689 — Richard L. Galaska — Civil — Date Signed 9/10/25 — Arizona, U.S.A.

	NAME	DATE
DESIGN	R. GALASKA	09/25
DRAWN	R. GALASKA	09/25
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

PAVEMENT MARKING NOTES & LAYOUT

ROUTE I 40
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

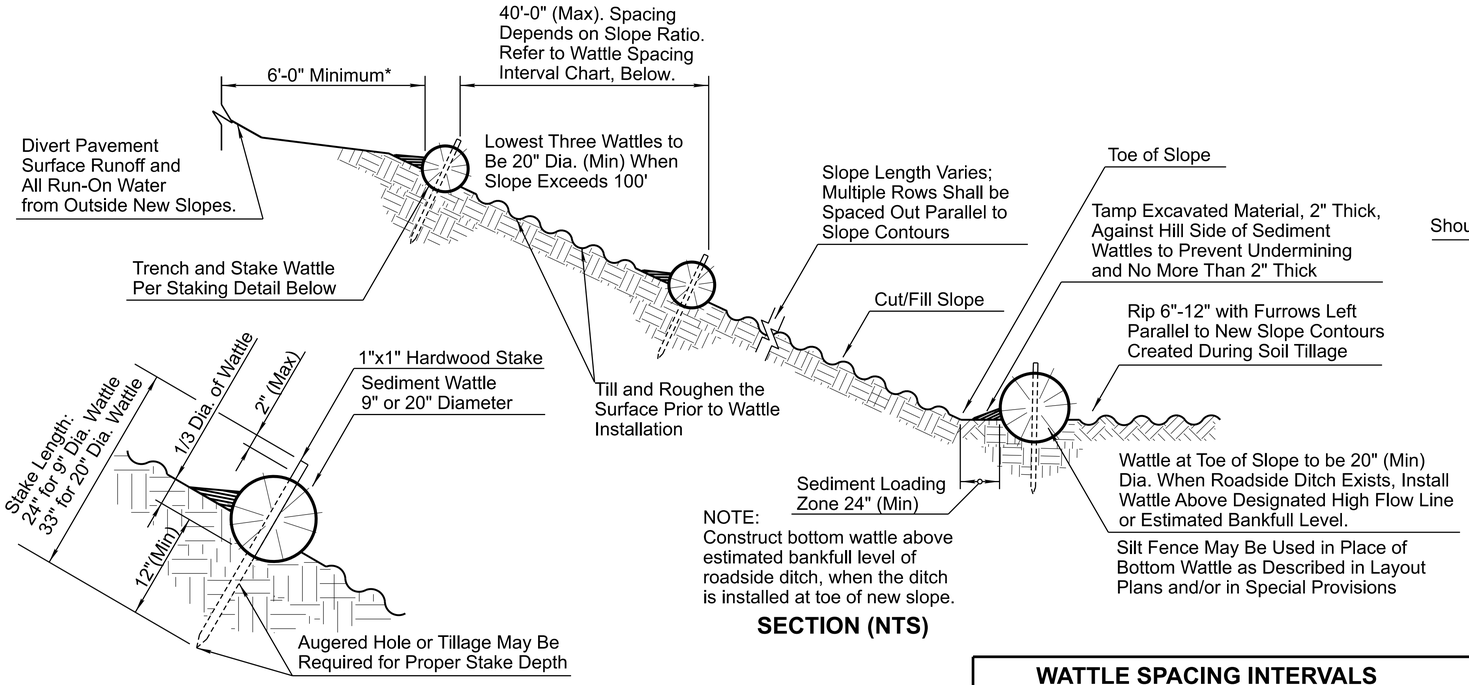
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	040 CN 159	040-C(235)T	11	12	

LOCATION WEST OF WILLIAMS (ER)

TRACS NO. F0857 01C

SHEET ___ OF ___

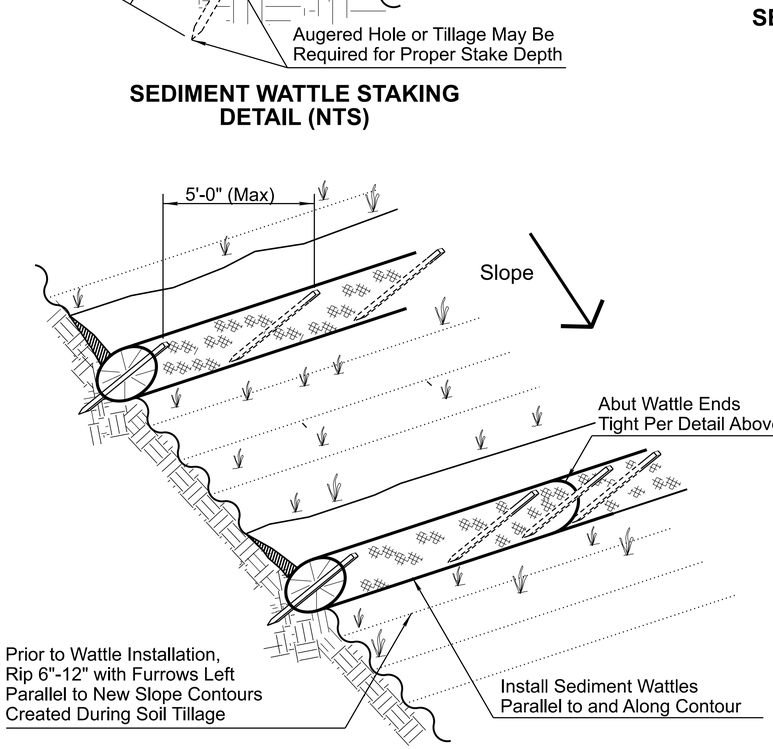
SEDIMENT WATTLE STAKING DETAIL (NTS)



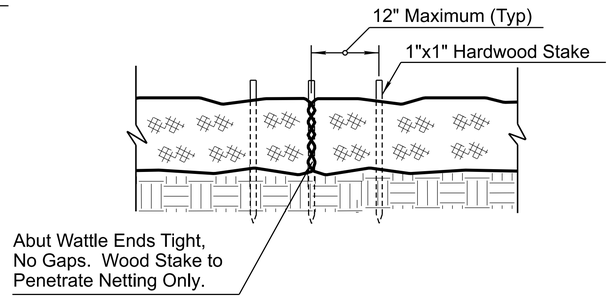
SECTION (NTS)

WATTLE SPACING INTERVALS	
Slope Ratio (H:V)	Maximum Spacing Interval
2:1	10'
3:1	20'
4:1	30'
5:1	40'
6:1	40'

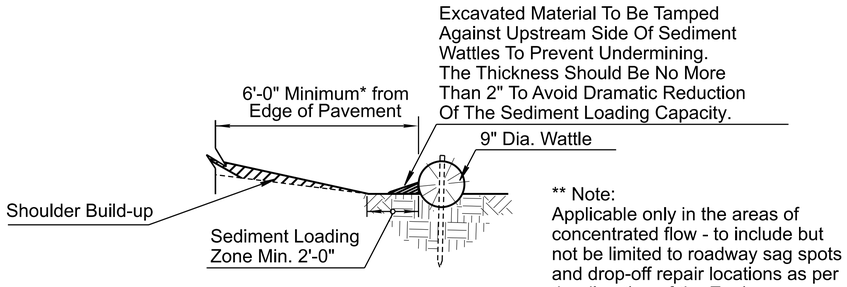
* Notes:
1) Top Row Shall Not be Placed within 6'-0" of Edge of Pavement and 9'-0" from Outside Surface of Barrier.
2) For erosive soils, place rows of wattles closer together.
3) For soils with low erosive potential, place rows of wattles further apart.



SEDIMENT WATTLE LAYOUT (NTS)



SEDIMENT WATTLE OVERLAP (NTS)



** 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 abut them tightly.
4. Repair any rills or gullies promptly. Make field adjustments and corrections of Wattle CM/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 CM/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 Specifications and these project 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 CMs/BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities.
9. Install and maintain Sediment Wattle CMs/BMPs to carry the stormwater of at least 2-year, 24-hour events.
10. The Sediment Wattle CM/BMP's pay/bid item shall include all materials used for this CM/BMP: all ground preparation, furnishing, installing, maintenance, final removal, and disposal of this temporary CM/BMP, as well as returning the area to an acceptable condition as approved by the Engineer.
11. Refer to 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.

DETAIL ES1
SEDIMENT WATTLE

REGISTERED LANDSCAPE ARCHITECT
18943
JOHN R.
HUCKO
Date Signed 9-9-2025
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	TAO ZI FONG	09-25
DESIGN	Z. H. F.	09-25
DRAWN	TAO ZI FONG	09-25
DRAWN	Z. H. F.	09-25
CHECKED	JOHN R. HUCKO	09-25
TEAM LEADER	E. LEROY BRADY	09-25

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION
STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS

ROUTE I-40
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	040 CN 159	040-C(235)T	12	12	

LOCATION WEST OF WILLIAMS (ER)

SHEET 1 OF 1

TRACS NO. F0857 01C

___ OF ___