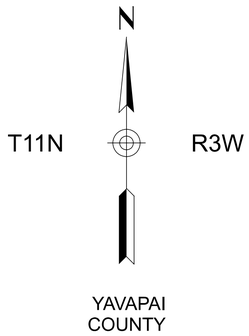
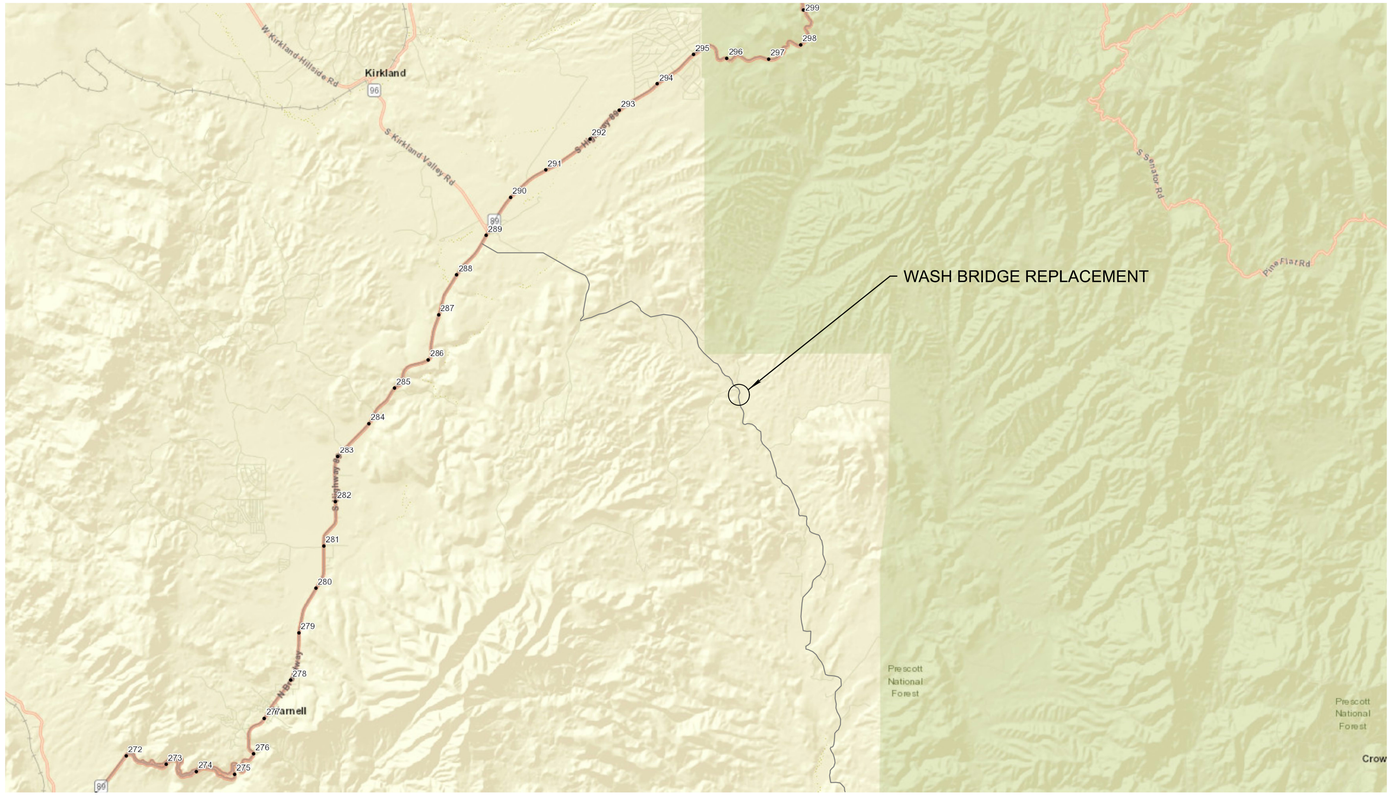


YAVAPAI
COUNTY

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION

PROJECT PLANS

RURAL AREA
YAVAPAI COUNTY



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

WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

PROJECT NO. 0000 YV YYV T0414 01C
FEDERAL AID NO. YYV-0(212)T

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE 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	Ben Ansley	

PROJECT NO. 0000 YV YYV T0414 01C — 1A OF 36

RECORD DRAWING DATA — FEDERAL ID NO. YYV-0(212)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

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

	NAME	DATE
SIGNING & MARKING STANDARDS	Ben Ansley	

PROJECT NO. 0000 YV YYV T0414 01C — 1B-1 OF 36

RECORD DRAWING DATA | FEDERAL ID NO. YYV-0(212)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

	NAME	DATE
SIGNING & MARKING STANDARDS	Ben Ansley	

PROJECT NO.			
0000 YV YYV T0414 01C	1B-2	OF	36

RECORD DRAWING DATA	FEDERAL ID NO.	REC. DWG. DATE	
	YYV-0(212)T		OF

ADOT STANDARD DRAWINGS

STRUCTURE DETAIL DRAWINGS
EFFECTIVE NOVEMBER 2024

DATE	STANDARD	SUBJECT TITLE
RAILINGS		
09/24	SD 1.10 (1 OF 2)	38" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
09/24	SD 1.10 (2 OF 2)	38" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
10/24	SD 1.11 (1 OF 1)	42" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
10/24	SD 1.11 (2 OF 2)	42" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
06/23	SD 1.12	COMBINATION PEDESTIAN-TRAFFIC BRIDGE RAILING
01/20	SD 1.13	PEDESTRIAN FENCE FOR BRIDGE RAILING SD1.12
01/20	SD 1.20	32' TYPE F ROADWAY BARRIER TRANSITION TO 38' SINGLE SLOPE BARRIER
01/20	SD 1.21	32' TYPE F ROADWAY BARRIER TRANSITION TO 42' SINGLE SLOPE BARRIER
01/20	SD 1.22	42' TYPE F ROADWAY BARRIER TRANSITION TO 42' SINGLE SLOPE BARRIER
01/20	SD 1.30	BARRIER JUNCTION BOX
APPROACHES		
08/23	SD 2.01	APPROACH SLAB DETAILS
08/23	SD 2.02	TYPE 1 ANCHOR SLAB DETAILS
08/23	SD 2.03	TYPE 2 ANCHOR SLAB DETAILS
08/23	SD 2.04	SLOPE PAVING DETAILS
DECK JOINTS		
02/20	SD 3.01	DECK JOINT ASSEMBLY - COMPRESSION SEAL
02/20	SD 3.02	DECK JOINT ASSEMBLY - STRIP SEAL
02/20	SD 3.03 (1 OF 2)	DECK JOINT ASSEMBLY - FLANGELESS STRIP SEAL
02/20	SD 3.03 (2 OF 2)	DECK JOINT ASSEMBLY - FLANGELESS STRIP SEAL
SUBSTRUCTURE		
11/12	SD 5.01	STRUCTURAL EXCAVATION - PAYMENT LIMITS
11/12	SD 5.02	STRUCTURE BACKFILL - PAYMENT LIMITS
DRAINAGE STRUCTURES		
05/15	SD 6.01 (1 OF 5)	REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS
02/12	SD 6.01 (2 OF 5)	REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS
02/12	SD 6.01 (3 OF 5)	REINFORCED CONCRETE BOX CULVERTS - EXTENSION DETAILS
02/12	SD 6.01 (4 OF 5)	REINFORCED CONCRETE BOX CULVERTS - STRUCTURAL EXCAVATION & STRUCTURE BACKFILL
05/15	SD 6.01 (5 OF 5)	REINFORCED CONCRETE BOX CULVERTS - SINGLE BARREL (0'-30' FILLS)
05/15	SD 6.02 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - DOUBLE BARREL (0'-15' FILLS)
05/15	SD 6.02 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - DOUBLE BARREL (15'-30' FILLS)
05/15	SD 6.03 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - TRIPLE BARREL (0'-15' FILLS)
05/15	SD 6.03 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - TRIPLE BARREL (15'-30' FILLS)
05/15	SD 6.04 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FOUR BARREL (0'-15' FILLS)
05/15	SD 6.04 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FOUR BARREL (15'-30' FILLS)
05/15	SD 6.05 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FIVE BARREL (0'-15' FILLS)
05/15	SD 6.05 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FIVE BARREL (15'-30' FILLS)
05/15	SD 6.06 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - SIX BARREL (0'-15' FILLS)
05/15	SD 6.06 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - SIX BARREL (15'-30' FILLS)
02/12	SD 6.07	REINFORCED CONCRETE BOX CULVERTS - 16'x 14' EQUIPMENT PASS (0'-20' FILLS)
05/15	SD 6.08 (1 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 0°to 20° - CULVERT HEIGHT 3'to 7'
02/12	SD 6.08 (2 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 0°to 20° - CULVERT HEIGHT 8'to 12'
05/15	SD 6.08 (3 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 0°to 20° - CULVERT HEIGHT 3'to 7'
02/12	SD 6.08 (4 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 0°to 20° - CULVERT HEIGHT 8'to 12'
05/15	SD 6.08 (5 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 25°to 45° - CULVERT HEIGHT 3'to 7'
02/12	SD 6.08 (6 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 25°to 45° - CULVERT HEIGHT 8'to 12'
05/15	SD 6.08 (7 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 25°to 45° - CULVERT HEIGHT 3'to 7'
02/12	SD 6.08 (8 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 25°to 45° - CULVERT HEIGHT 8'to 12'
05/15	SD 6.09 (1 OF 3)	REINFORCED CONCRETE BOX CULVERTS - HEADWALL QUANTITIES - 2 :1 SLOPE
05/15	SD 6.09 (2 OF 3)	REINFORCED CONCRETE BOX CULVERTS - HEADWALL QUANTITIES - 4 :1 SLOPE
05/15	SD 6.09 (3 OF 3)	REINFORCED CONCRETE BOX CULVERTS - HEADWALL QUANTITIES - 6 :1 SLOPE
05/15	SD 6.10 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - INLET OR OUTLET - LEVEL WINGS - CULVERT HEIGHT 3'to 7'
02/12	SD 6.10 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - INLET OR OUTLET - LEVEL WINGS - CULVERT HEIGHT 8'to 12'
02/12	SD 6.11 (1 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON DETAILS
05/15	SD 6.11 (2 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON - DIMENSIONS & QUANTITIES (2 :1 SLOPE)
05/15	SD 6.11 (3 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON - DIMENSIONS & QUANTITIES (4 :1 SLOPE)
05/15	SD 6.11 (4 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON - DIMENSIONS & QUANTITIES (6 :1 SLOPE)
10/24	SD 6.20 (1 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - SINGLE BARREL NOTES & DIMENSIONS
10/24	SD 6.20 (2 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS 1
10/24	SD 6.20 (3 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - END SECTION & CONNECTION DETAILS
10/24	SD 6.20 (4 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS 2
10/24	SD 6.20 (5 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS 3
07/12	SD 6.30 (1 OF 5)	PIPE CULVERT HEADWALLS - MISCELLANEOUS DETAILS
07/12	SD 6.30 (2 OF 5)	PIPE CULVERT HEADWALLS - INLET AND OUTLET - 18" to 42" PIPES
07/12	SD 6.30 (3 OF 5)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET AND OUTLET - 48" to 84" PIPES
07/12	SD 6.30 (4 OF 5)	PIPE CULVERT HEADWALLS - SKEWED INLET AND OUTLET - 48" to 84" PIPES
07/12	SD 6.30 (5 OF 5)	PIPE CULVERT HEADWALLS - MULTI-PIPE - 48" to 84" PIPES
07/12	SD 6.31 (1 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET
07/12	SD 6.31 (2 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET - 2 :1 SLOPE
07/12	SD 6.31 (3 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET - 4 :1 SLOPE
07/12	SD 6.31 (4 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET - 6 :1 SLOPE
07/12	SD 6.31 (5 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET
07/12	SD 6.31 (6 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET - 2 :1 SLOPE
07/12	SD 6.31 (7 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET - 4 :1 SLOPE
07/12	SD 6.31 (8 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET - 6 :1 SLOPE
07/12	SD 6.32 (1 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET
07/12	SD 6.32 (2 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET - 2 :1 SLOPE
07/12	SD 6.32 (3 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET - 4 :1 SLOPE
07/12	SD 6.32 (4 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET - 6 :1 SLOPE
07/12	SD 6.32 (5 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET
07/12	SD 6.32 (6 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET - 2 :1 SLOPE
07/12	SD 6.32 (7 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET - 4 :1 SLOPE
07/12	SD 6.32 (8 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET - 6 :1 SLOPE

DATE	STANDARD	SUBJECT TITLE
DRAINAGE STRUCTURES (Continued)		
07/12	SD 6.33 (1 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET
07/12	SD 6.33 (2 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET - 2 :1 SLOPE
07/12	SD 6.33 (3 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET - 4 :1 SLOPE
07/12	SD 6.33 (4 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET - 6 :1 SLOPE
07/12	SD 6.33 (5 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET
07/12	SD 6.33 (6 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET - 2 :1 SLOPE
07/12	SD 6.33 (7 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET - 4 :1 SLOPE
07/12	SD 6.33 (8 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET - 6 :1 SLOPE
07/12	SD 6.34 (1 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET
07/12	SD 6.34 (2 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET - 2 :1 SLOPE
07/12	SD 6.34 (3 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET - 4 :1 SLOPE
07/12	SD 6.34 (4 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET - 6 :1 SLOPE
07/12	SD 6.34 (5 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET
07/12	SD 6.34 (6 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET - 2 :1 SLOPE
07/12	SD 6.34 (7 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET - 4 :1 SLOPE
07/12	SD 6.34 (8 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET - 6 :1 SLOPE
07/12	SD 6.35 (1 OF 2)	PIPE CULVERT HEADWALLS - MULTI-PIPE WITHOUT APRON
07/12	SD 6.35 (2 OF 2)	PIPE CULVERT HEADWALLS - MULTI-PIPE WITH OUTLET APRON
07/12	SD 6.36 (1 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRONS
07/12	SD 6.36 (2 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRON STEEL LIST - 2 :1 SLOPE
07/12	SD 6.36 (3 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRON STEEL LIST - 4 :1 SLOPE
07/12	SD 6.36 (4 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRON STEEL LIST - 6 :1 SLOPE
RETAINING WALLS		
10/24	SD 7.01 (1 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
12/21	SD 7.01 (2 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
12/21	SD 7.01 (3 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
12/21	SD 7.01 (4 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
12/21	SD 7.01 (5 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
12/21	SD 7.02 (1 OF 2)	RETAINING WALL (MASONRY CANTILEVER)
12/21	SD 7.02 (2 OF 2)	RETAINING WALL (MASONRY CANTILEVER)
SOUND BARRIER WALLS		
06/22	SD 8.01	SOUND BARRIER WALL (CONCRETE)
06/22	SD 8.02 (1 OF 2)	SOUND BARRIER WALL (MASONRY)
06/22	SD 8.02 (2 OF 2)	SOUND BARRIER WALL (MASONRY)
TRAFFIC STRUCTURES		
04/19	SD 9.01 (1 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - ELEVATION & NOTES
03/22	SD 9.01 (2 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - FOUNDATION DETAILS
04/19	SD 9.01 (3 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - TYPE A SIGN MOUNT ASSEMBLY
04/19	SD 9.01 (4 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - TYPE B SIGN MOUNT ASSEMBLY
04/19	SD 9.01 (5 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - LIGHT SUPPORT AND MISC. DETAILS
04/19	SD 9.02 (1 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - ELEVATION & NOTES
03/22	SD 9.02 (2 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - FOUNDATION DETAILS
04/19	SD 9.02 (3 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - TYPE A SIGN MOUNT ASSEMBLY
04/19	SD 9.02 (4 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - TYPE B SIGN MOUNT ASSEMBLY
04/19	SD 9.02 (5 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - LIGHT SUPPORT AND MISC. DETAILS
04/19	SD 9.10 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - GENERAL PLAN
09/23	SD 9.10 (2 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - FOUNDATION DETAILS
04/19	SD 9.10 (3 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - POST AND MAST ARM DETAILS
04/19	SD 9.10 (4 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - SIGN SUPPORT DETAILS
09/23	SD 9.10 (5 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - LIGHT SUPPORT DETAILS
04/19	SD 9.20 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - GENERAL PLAN
09/23	SD 9.20 (2 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - FOUNDATION DETAILS
04/19	SD 9.20 (3 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - POST AND MAST ARM DETAILS
04/19	SD 9.20 (4 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - SIGN SUPPORT DETAILS
09/23	SD 9.20 (5 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - LIGHT SUPPORT AND MISC. DETAILS
04/19	SD 9.50 (1 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - PLAN & ELEVATION
04/19	SD 9.50 (2 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.50 (3 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - MOUNTING & SIGN BRACKET DETAILS
04/19	SD 9.50 (4 OF 5)	VARIABLE MESSAGE SIGN - CATWALK - HANDRAIL DETAILS
04/19	SD 9.50 (5 OF 5)	VARIABLE MESSAGE SIGN - CATWALK - MISCELLANEOUS DETAILS
04/19	SD 9.51	DUAL VARIABLE MESSAGE SIGN - TUBULAR FRAME
04/19	SD 9.52 (1 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - PLAN & ELEVATION
04/19	SD 9.52 (2 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.52 (3 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.52 (4 OF 5)	DYNAMIC MESSAGE SIGN - CATWALK - HANDRAIL DETAILS
04/19	SD 9.52 (5 OF 5)	DYNAMIC MESSAGE SIGN - CATWALK - MISCELLANEOUS DETAILS
04/19	SD 9.53 (1 OF 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - PLAN & ELEVATION
04/19	SD 9.53 (2 OF 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.53 (3 OF 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.53 (4 OF 5)	DMS (VARIABLE TILT CABINET) - CATWALK - HANDRAIL DETAILS
04/19	SD 9.53 (5 OF 5)	DMS (VARIABLE TILT CABINET) - CATWALK - MISCELLANEOUS DETAILS
05/22	SD 9.60 (1 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - GENERAL PLAN AND ELEVATION
05/22	SD 9.60 (2 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - FOUNDATION DETAILS
05/22	SD 9.60 (3 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - DMS MONOTUBE ASSEMBLY
05/22	SD 9.60 (4 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - DMS MAST ARM DETAILS
05/22	SD 9.60 (5 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - MISCELLANEOUS DETAIL
05/22	SD 9.60 (6 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - CATWALK ASSEMBLY AND HANDRAIL
05/22	SD 9.60 (7 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - CATWALK DETAILS

ADOT STANDARD DRAWINGS
REVISION DATES and STANDARD NO.'s REVIEW

	NAME	DATE
STRUCTURES STANDARDS	Ben Ansley	

PROJECT NO. 0000 YV YYV T0414 01C		1D OF 36	
RECORD DRAWING DATA	FEDERAL ID NO. YYV-0(212)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

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-2A of the Std. Spec and/or 104.16 BIO-2 of the Special Provisions for direction.

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

BIO-3: Burrowing Owls ☑ N/A

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/or 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

7. HAZARDOUS MATERIALS PROGRAM

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

☐ No Hazardous Materials Program Action Required

Is Asbestos present? ☑ No ☐ Yes

Is a NESHAP notice required? ☐ No ☒ Yes

If yes, coordination with the ADOT Hazardous Materials Specialist is required and the NESHAP notification shall be submitted at least ten (10) business days prior to initiation of construction activities to: Arizona Department of Environmental Quality Air Quality Division

Is Lead-based paint present? ☑ No ☐ Yes

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

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 11/15/2024		**R.E. Signature**	
FEDERAL ID NO.	YYV-0(212)T		
PROJECT NO.	0000 YV YYV T0414 01C	With the above signature, the R.E. attests that all EPIC work for this project has been satisfactorily completed.	
REC DWG DATE: _____ **OF** _____		1F **OF** 36	**Sheet 1F of 36**

DESIGN DATA

Design Speed = 30 MPH

LENGTH OF PROJECT

Walnut Grove Road
Sta 1121+32.12 to 1122+33.82 = 101.70'
Sta 1122+33.82 to 1122+48.32 = 14.50' Wash Bridge
Sta 1122+48.32 to 1123+60.00 = 111.68'
Gross Length = 227.88' - 0.04 miles
Bridge Length = 14.50'
Net Length = 213.38'
MP 7.8 to MP 7.8

MIDPOINT OF PROJECT

Central Zone
State Plane Coordinates
X=502,290
Y=1,208,080

INDEX OF SHEETS

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.

For R/W information not shown, see Results of Survey Project No. 2024-0012239.

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 Arizona 811 laws and Section 107.15 of the Specifications.

The average project elevation is 3827'.

New Right of Way and/or easements are required.

Project plans have been developed utilizing alignment and survey control from Yavapai County Results of Survey 2024-0012239.

EARTHWORK QUANTITIES	
Roadway Excavation	371 CY
No Shrink or Swell Applied	
Structural Excavation	223 CY
Roadway Embankment	27 CY
Shrink	3 CY
Structure Backfill ●	76 CY
Structure Backfill (Flow Fill) ●	203 CY
Ground Compaction	4 CY
Waste	560 CY

EARTHWORK FACTORS		
Station	Shrink/Swell	Ground Compaction
Overall Project	10% Shrink	0.20'

●Backfill Materials Assumed Imported Materials.

Registered Professional Engineer (Civil) 26609 DALE WIGGINS Date Signed 6/25/25 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	N KING	06/25
DRAWN	M CARILLO	06/25
CHECKED	D WIGGINS	06/25

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INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SERVICES

DESIGN SHEET

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYY	YYV-0(212)T	2	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. G-1.01

TRACS NO. T0414 01C

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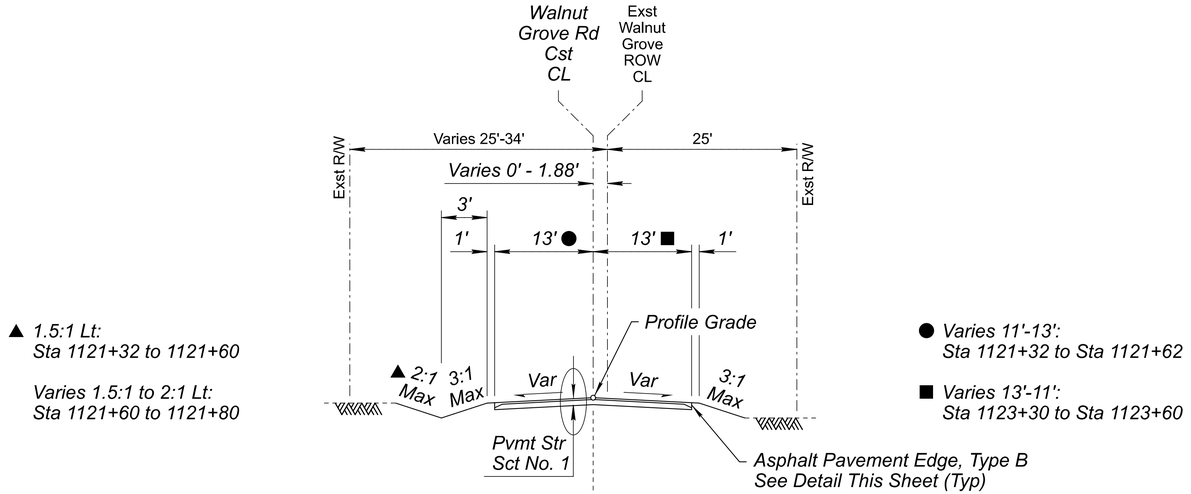


▲ *1.5:1 Lt:*
Sta 1121+32 to 1121+60

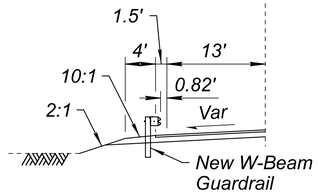
Varies 1.5:1 to 2:1 Lt:
Sta 1121+60 to 1121+80

● *Varies 11'-13':*
Sta 1121+32 to Sta 1121+62

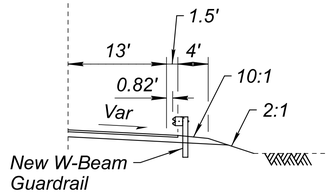
■ *Varies 13'-11':*
Sta 1123+30 to Sta 1123+60

TYPICAL SECTION

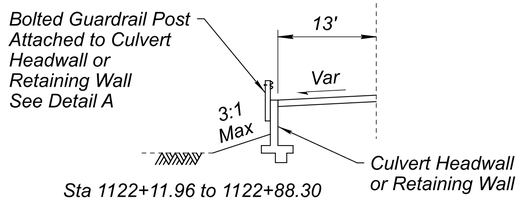
Walnut Grove Rd
Sta 1121+32.12 to 1123+60.00



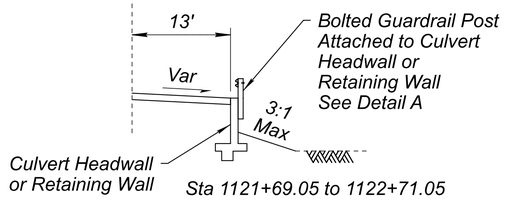
Sta 1122+88.30 to 1123+50.00



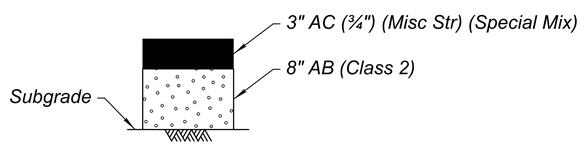
Sta 1121+32.12 to 1121+69.05



Sta 1122+11.96 to 1122+88.30



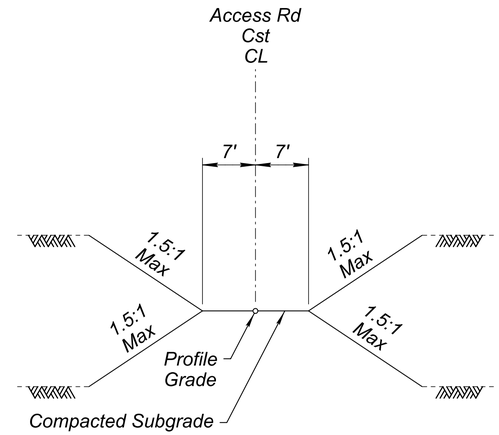
Sta 1121+69.05 to 1122+71.05



Total Thickness = 11.0"

SECTION NO. 1

Roadway Pavement &
Guardrail Terminal Pavement

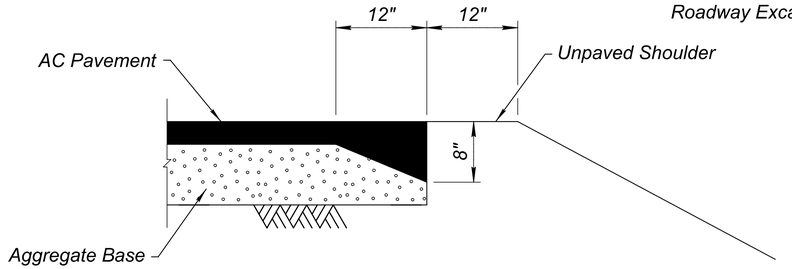


TYPICAL SECTION

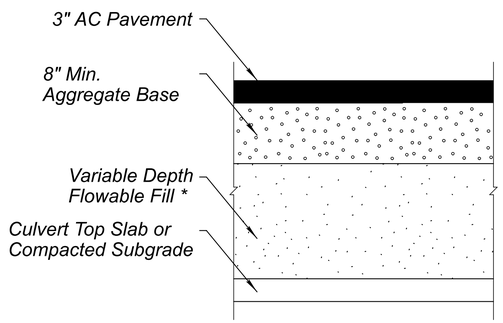
Access Rd
Sta 10+15.00 to 10+95.00

NOTE

1. *Construction and removal of Access Rd is paid for under Item 2030301 - Roadway Excavation.*



ASPHALT PAVEMENT EDGE DETAIL



** See Structural Plans for Depths at Specific Locations*

PAVEMENT SECTION OVER BOX CULVERT AND EXISTING STRUCTURE DETAIL

Sta 1122+26 to Sta 1122+56
Not to Scale

	NAME	DATE
DESIGN	N KING	06/25
DRAWN	M CARILLO	06/25
CHECKED	D WIGGINS	06/25

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ROADWAY DESIGN SERVICES

TYPICAL SECTIONS

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	3	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. G-2.01

TRACS NO. T0414 01C

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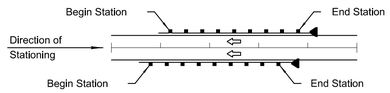
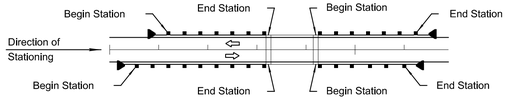
ONE-WAY ROADWAY

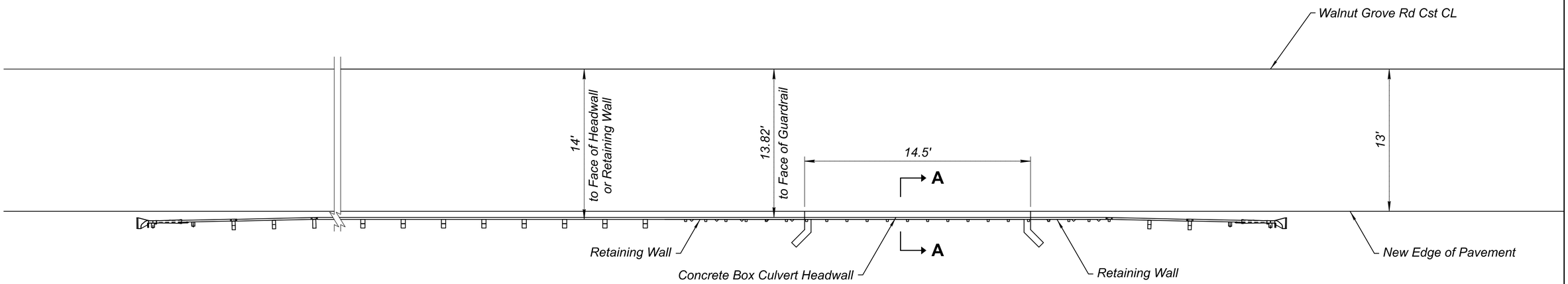


TWO-WAY ROADWAY WITH STRUCTURE ◒

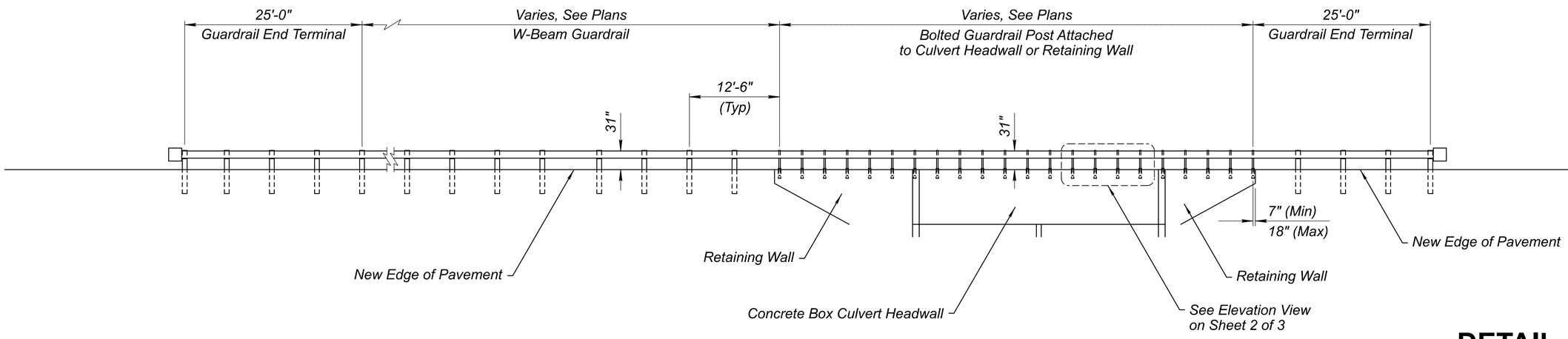


DIVIDED ROADWAY WITH HIGH TENSION MEDIAN CABLE BARRIER

| LOCATION | | BARRIER | | | | | | | | | | | | | | | | | | | | | | | | | | TRANSITION | | END TREATMENT | | | | | | | | | | | | | | | | | | |



PLAN



PROFILE

DETAIL A

SHEET 1 OF 3
BOLTED GUARDRAIL POST ATTACHED TO
CULVERT HEADWALL OR RETAINING WALL
N.T.S.

Professional Engineer
26609
DALE
WIGGINS
ARIZONA, U.S.A.
Date Signed 6/13/25

	NAME	DATE
DESIGN	N KING	06/25
DRAWN	M CARILLO	06/25
CHECKED	D WIGGINS	06/25

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DETAIL SHEET
DETAIL A

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	5	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. G-4.01

TRACS NO. T0414 01C

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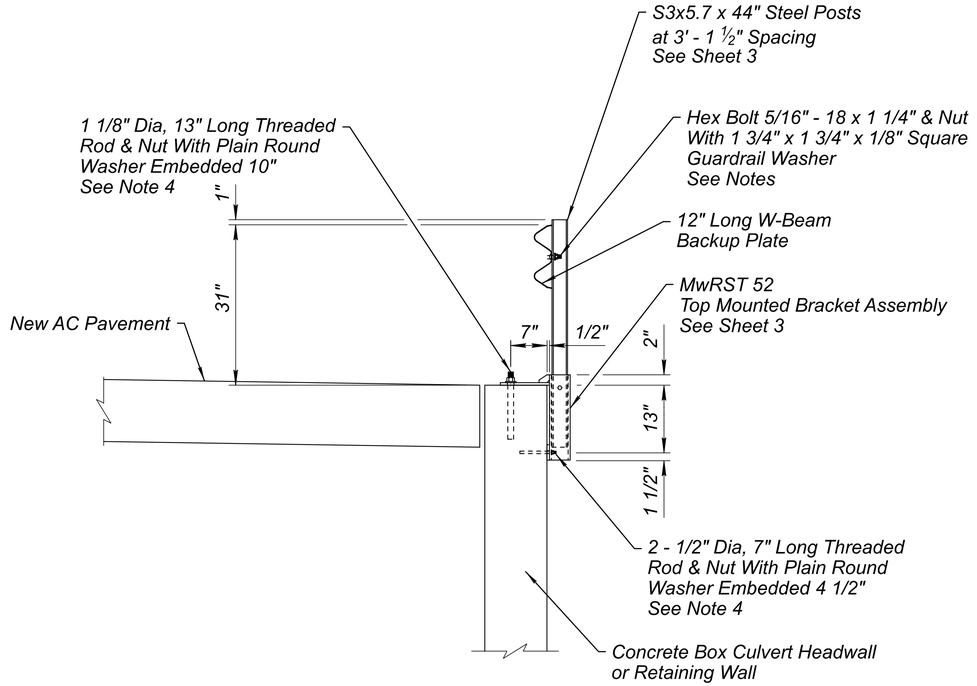
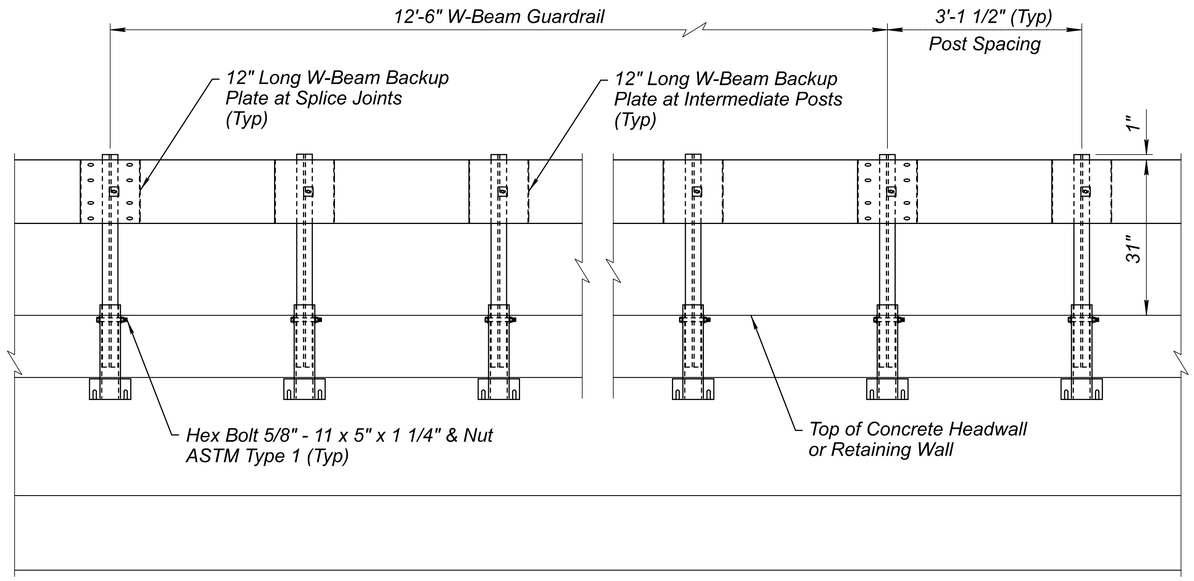


SECTION A-A

Installation Detail
MxRST SGR52
Bolted Guardrail Post
Attached to Culvert
Headwall or Retaining Wall



ELEVATION VIEW

NOTES

1. *See Std Dwgs C-10.03 for backup plate bolt pattern information and dimensions.*
2. *Guardrail shall be lapped in direction of adjacent traffic.*
3. *Manufacture components accordings to the AASHTO-AGC-ARTBA Guide to Standardized Highway Barrier Hardware.*
4. *Threaded rod shall be ASTM Grade C embedded into side of headwall or retaining wall using epoxy with a minimum bond strength of 1,300 psi.*
5. *Bolts & nuts shall be ASTM Grade A galvanized.*
6. *12" long W-Beam Backup Plate shall be 12 gauge.*

DETAIL A

SHEET 2 OF 3
BOLTED GUARDRAIL POST ATTACHED TO
CULVERT HEADWALL OR RETAINING WALL

Registered Professional Engineer
26609
DALE
WIGGINS
Date Signed 6/10/25
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	N KING	06/25
DRAWN	M CARILLO	06/25
CHECKED	D WIGGINS	06/25

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ROADWAY DESIGN SERVICES

DETAIL SHEET
DETAIL A

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	6	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. G-4.02

TRACS NO. T0414 01C

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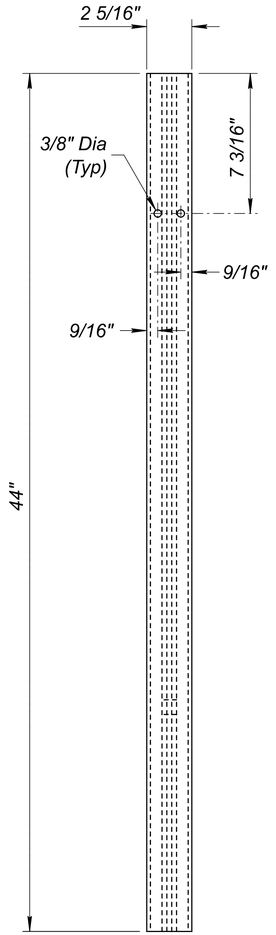
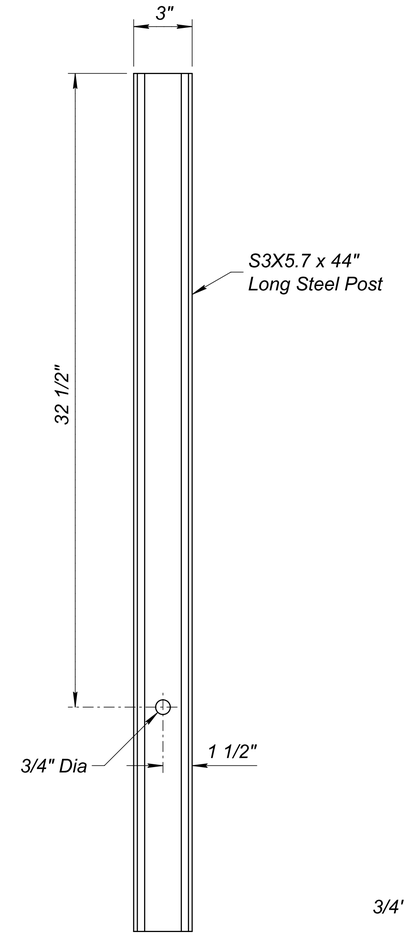
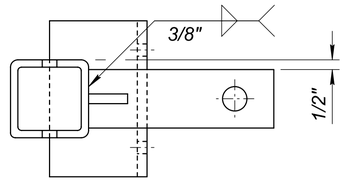


FRONT VIEW

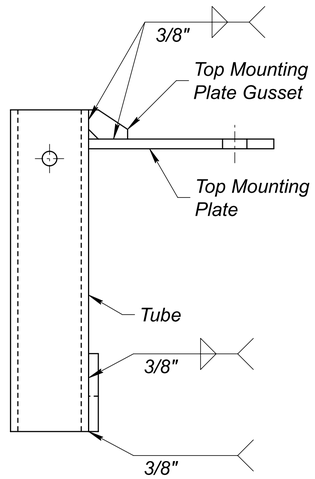


SIDE VIEW

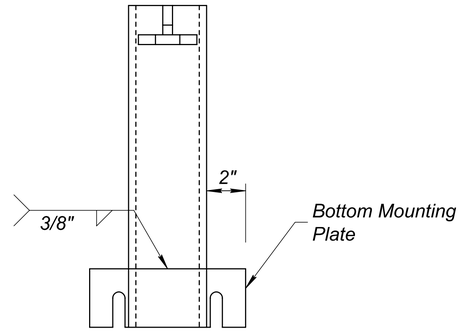
S3x5.7 POST



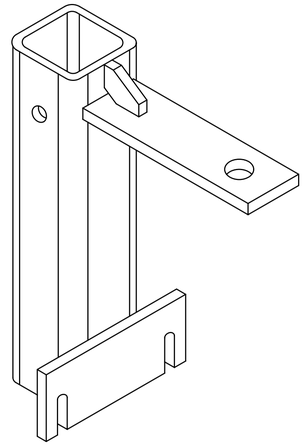
PLAN VIEW



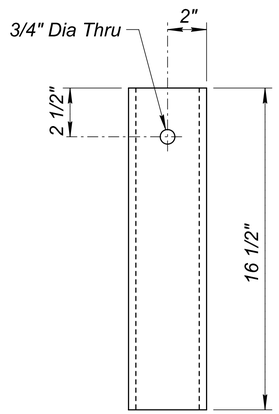
ELEVATION VIEW



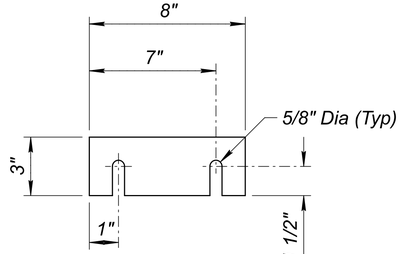
PROFILE VIEW



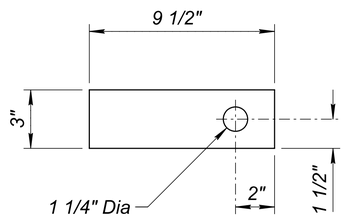
ISOMETRIC VIEW



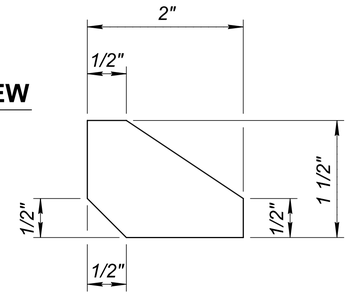
ELEVATION VIEW
4" x 4" x 3/8" TUBE



ELEVATION VIEW
1/2" THICK BOTTOM MOUNTING PLATE



ELEVATION VIEW
1/2" THICK TOP MOUNTING PLATE



ELEVATION VIEW
1/2" THICK MOUNTING PLATE GUSSET

NOTES:

1. The 1/2" thick steel plates that are welded together to form the bracket assembly shall be ASTM A572 Grade 50 steel pole.
2. The 16 1/2" long 4" x 4" x 3/8" steel tube shall be ASTM A500 Grade B steel.
3. The S3x5.7 x 44" long slot post shall be ASTM A992 Grade 50 steel galvanized.
4. The top-mounted bracket assembly shall be galvanized after fabrication.

DETAIL A

SHEET 3 OF 3
BOLTED GUARDRAIL POST ATTACHED TO
CULVERT HEADWALL OR RETAINING WALL

	NAME	DATE
DESIGN	N KING	06/25
DRAWN	M CARILLO	06/25
CHECKED	D WIGGINS	06/25

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INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SERVICES

DETAIL SHEET
DETAIL A

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	7	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. C-4.03

TRACS NO. T0414 01C

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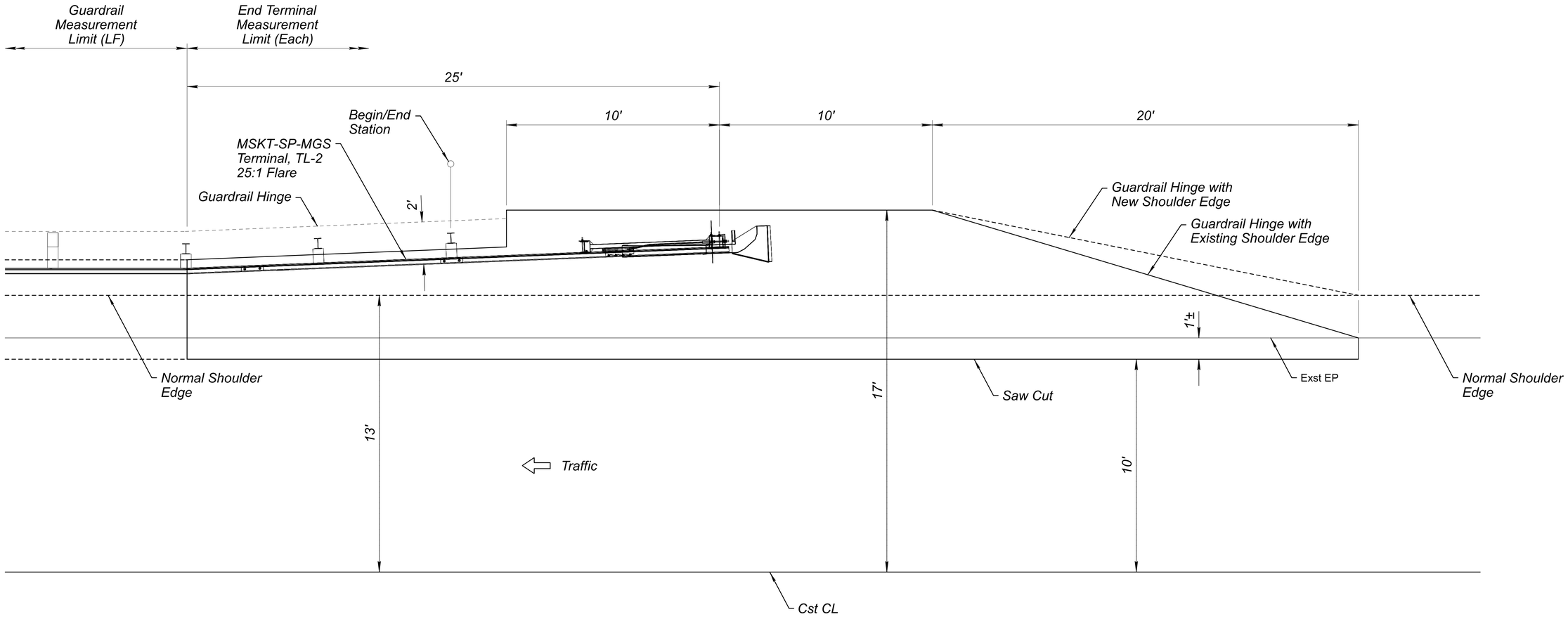

NOTES

1. *Guardrail End Terminal and End Terminal Pad is paid for under Item 9050025.*
2. *Pad pavement shall be 3" AC. Cost of pavement shall be included in cost of Item 9050025.*

DETAIL B

GUARDRAIL END TERMINAL AND END TERMINAL PAD LAYOUT

Registered Professional Engineer — 26609 DALE WIGGINS — Date Signed 6/25/25 — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	N KING	06/25
DRAWN	M CARILLO	06/25
CHECKED	D WIGGINS	06/25

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

DETAIL SHEET
DETAIL B

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	8	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. G-4.04

TRACS NO. T0414 01C

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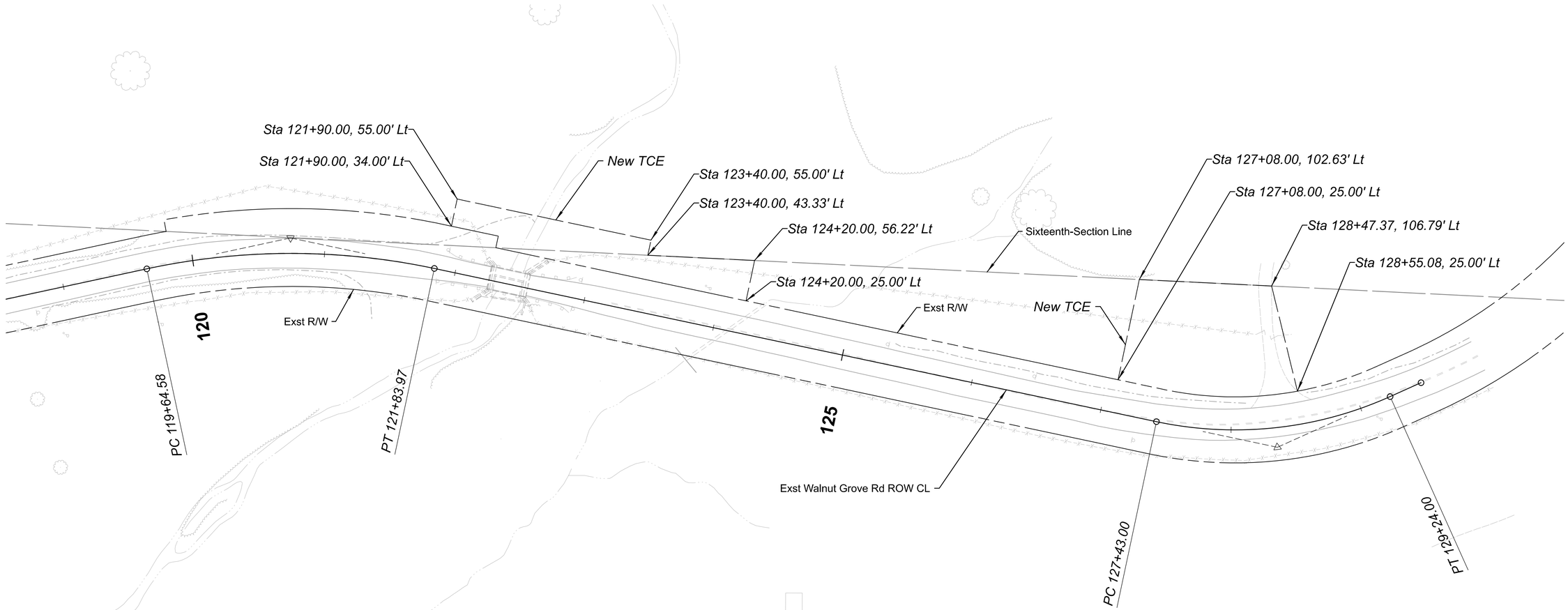

DETAIL C

TEMPORARY CONSTRUCTION
EASEMENT LAYOUT

	NAME	DATE
DESIGN	N KING	06/25
DRAWN	M CARILLO	06/25
CHECKED	D WIGGINS	06/25

Registered Professional Engineer
26609
DALE
WIGGINS
Date Signed 6/25/25
ARIZONA, U.S.A.

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AECOM TECHNICAL SERVICES, Inc.
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Phoenix, Arizona 85020
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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SERVICES

DETAIL SHEET
DETAIL C

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	9	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. G-4.05

TRACS NO. T0414 01C

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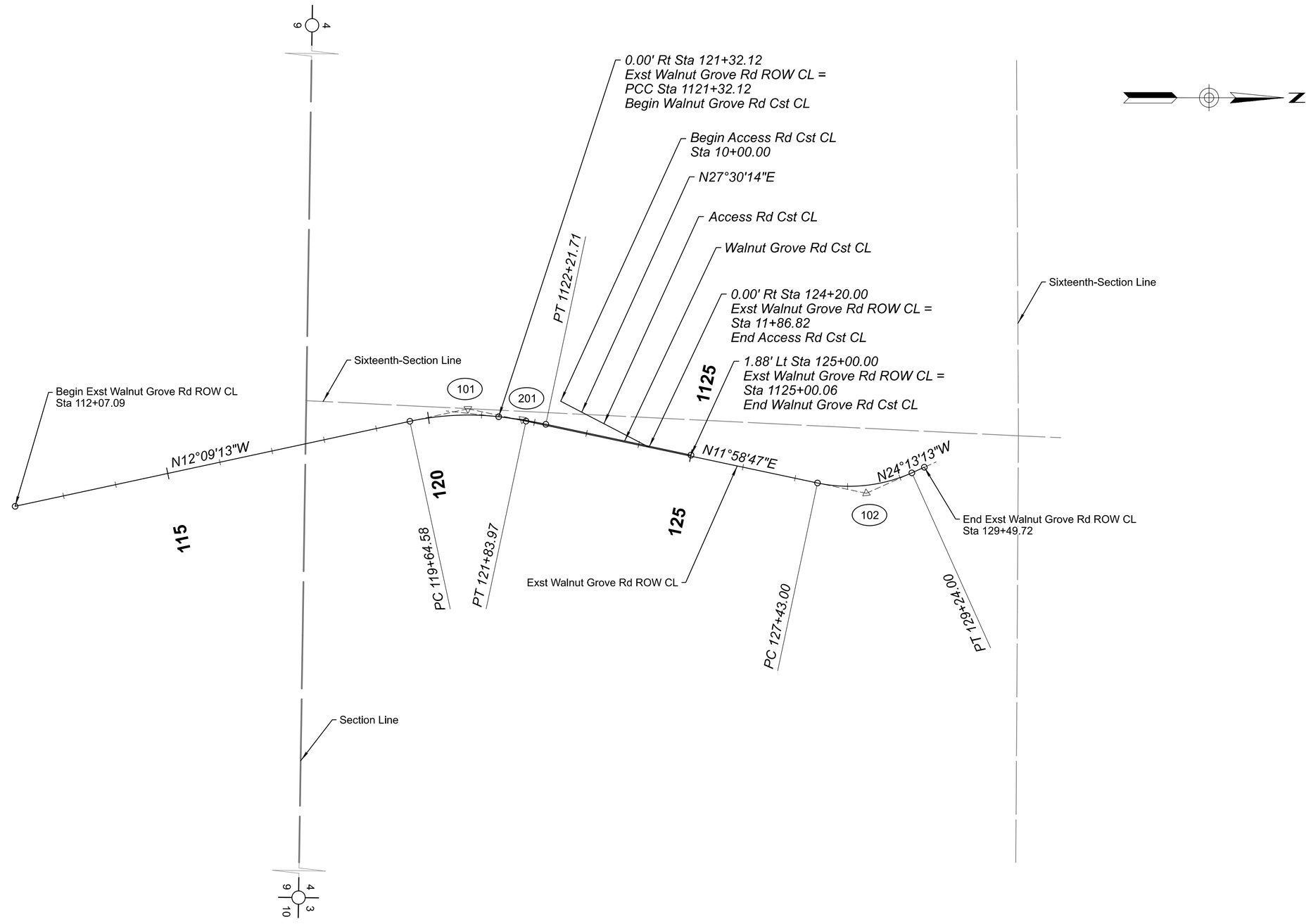

	NAME	DATE
DESIGN	N KING	06/25
DRAWN	M CARILLO	06/25
CHECKED	D WIGGINS	06/25

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26609 DALE WIGGINS — Registered Professional Engineer — Date Signed 6/11/25 — ARIZONA, U.S.A.

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

GEOMETRIC LAYOUT SHEET

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	10	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. C-1.01

TRACS NO. T0414 01C

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Exst Walnut Grove Rd ROW CL

Element	Point Type	Point Number	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	K	P
Alignment Name:		Exst Walnut Grove Rd ROW CL									
Description:											
Style:		Alignment\E_Geom_Baseline									
Tangent	START		112+07.09	1207066.196	502439.471						
Tangent	PC		119+64.58	1207806.709	502279.996						
Arc	PC		119+64.58	1207806.709	502279.996						
Arc	HPI	101	120+75.93	1207915.561	502256.554	520.87	219.39	24°08'00.00"	Right		
Arc	CC			1207916.368	502789.192						
Arc	PT		121+83.97	1208024.484	502279.666						
Tangent	PT		121+83.97	1208024.484	502279.666						
Tangent	PC		127+43.00	1208571.339	502395.702						
Arc	PC		127+43.00	1208571.339	502395.702						
Arc	HPI	102	128+36.64	1208662.935	502415.138	286.48	181.00	36°12'00.00"	Left		
Arc	CC			1208630.803	502115.462						
Arc	PT		129+24.00	1208748.329	502376.725						
Tangent	PT		129+24.00	1208748.329	502376.725						
Tangent	END		129+49.72	1208771.785	502366.173						

Access Rd Cst CL

Element	Point Type	Point Number	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	K	P
Alignment Name:		Access Rd Cst CL									
Description:											
Style:		Alignment\Geom_Baseline_LEFT_ANNO									
Tangent	START		10+00.00	1208089.668	502242.384						
Tangent	END		11+86.82	1208255.370	502328.657						

Walnut Grove Rd Cst CL

Element	Point Type	Point Number	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	K	P
Alignment Name:		Walnut Grove Rd Cst CL									
Description:											
Style:		Alignment\Geom_Baseline_LEFT_ANNO									
Arc	PC		1121+32.12	1207973.312	502271.444						
Arc	HPI	201	1121+76.95	1208017.875	502276.345	900.00	89.59	05°42'12.32"	Right		
Arc	CC			1207874.920	503166.049						
Arc	PT		1122+21.71	1208061.731	502285.651						
Tangent	PT		1122+21.71	1208061.731	502285.651						
Tangent	END		1125+00.06	1208334.017	502343.427						

Survey Data

Datum:

Horizontal = NAD83 (SPC AZ Central GRID) 1992 Epoch

Vertical = NAVD88 (Provided by Yavapai County)

Registered Professional Engineer — 26609 DALE WIGGINS — Date Signed 6/12/25 — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	N KING	06/25
DRAWN	M CARILLO	06/25
CHECKED	D WIGGINS	06/25

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

GEOMETRIC DATA SHEET

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	11	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. C-1.02

TRACS NO. T0414 01C

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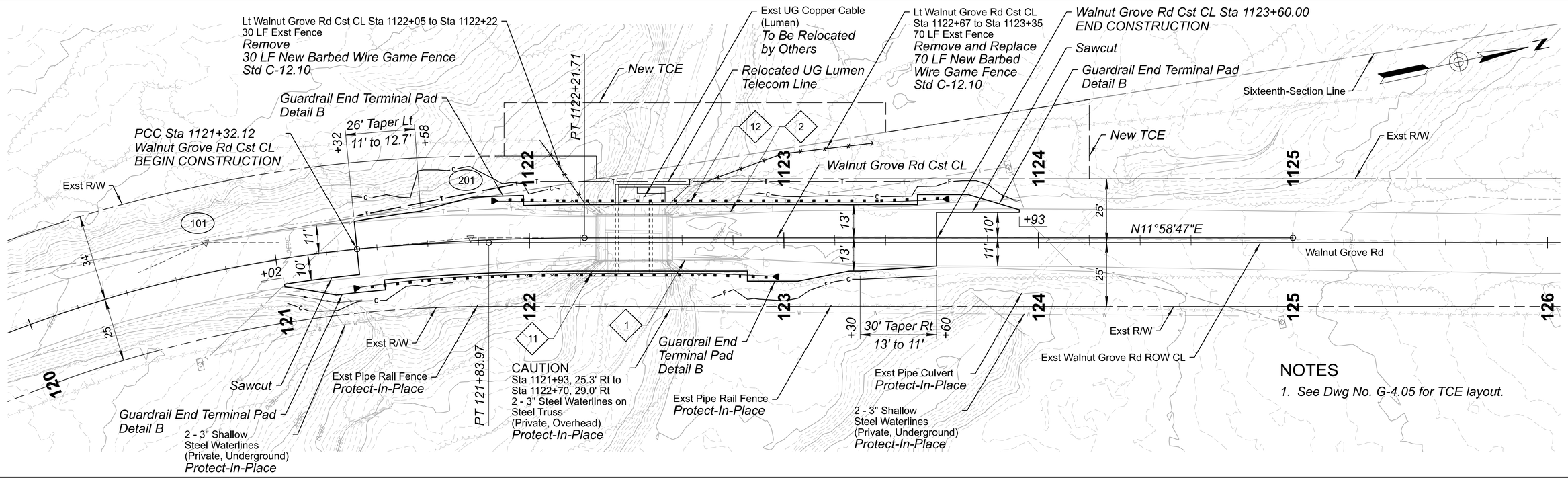

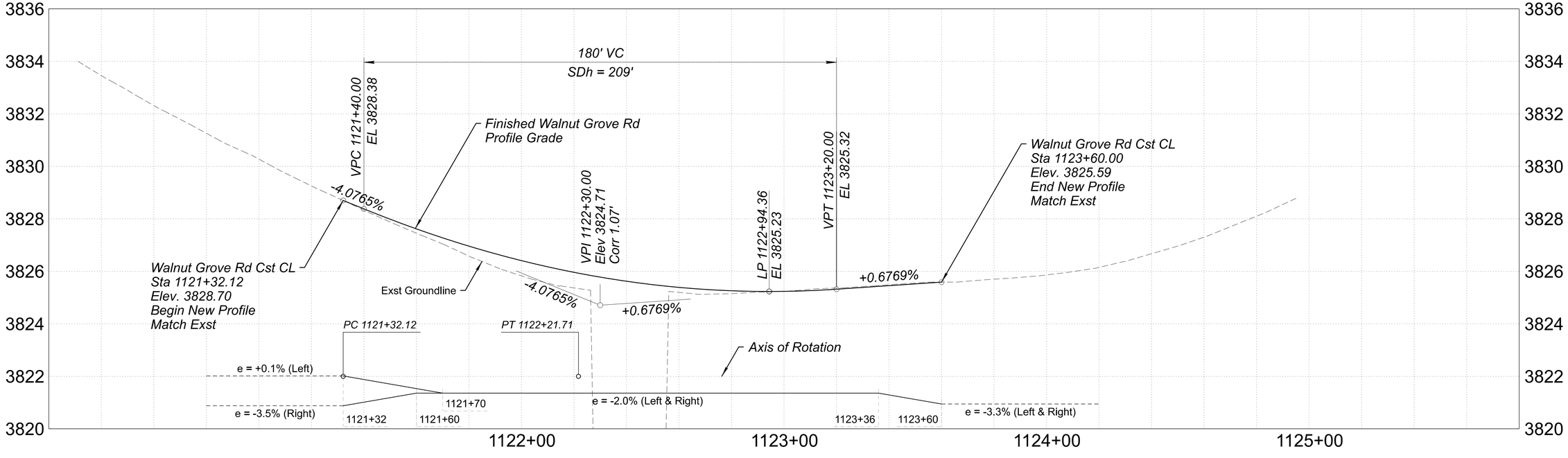

	NAME	DATE
DESIGN	N KING	06/25
DRAWN	M CARILLO	06/25
CHECKED	D WIGGINS	06/25

Registered Professional Engineer (Civil) 26609 DALE WIGGINS Date Signed 6/12/25 ARIZONA, U.S.A.

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

PLAN & PROFILE SHEET
WALNUT GROVE ROAD
STA 1121+32.12 TO STA 1123+60.00

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	12	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. C-2.01

TRACS NO. T0414 01C

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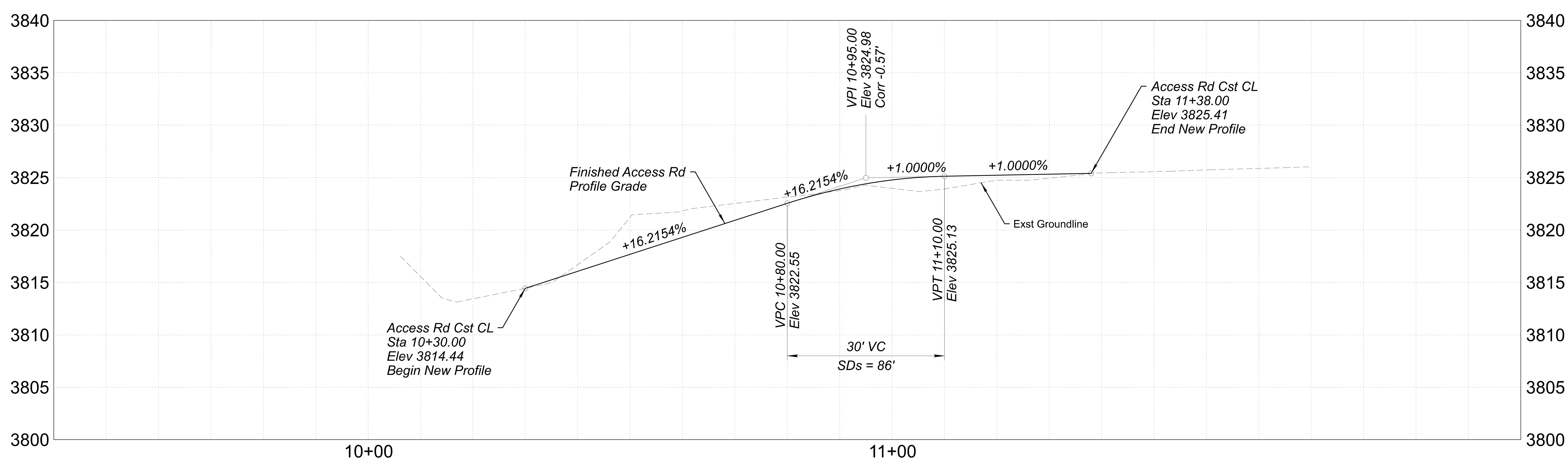

	NAME	DATE
DESIGN	N KING	06/25
DRAWN	M CARILLO	06/25
CHECKED	D WIGGINS	06/25

Registered Professional Engineer (Civil) Certificate No. 26609 DALE WIGGINS Date Signed 6/13/25 ARIZONA, U.S.A.

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

PLAN & PROFILE SHEET
ACCESS ROAD
STA 10+30.00 TO STA 11+38.00

ROUTE 0
MILEPOST 0.00
STRUCTURE NO. 8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	13	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. C-3.01

TRACS NO. T0414 01C

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TRAFFIC CONTROL NOTES:

SIGNS

1. All existing signs in conflict with the construction signs shall be removed, relocated, or covered in place, as directed by the Engineer at no cost to the department. The Contractor shall store and reinstall items which have been removed or relocated in a manner approved by the Engineer. Any signs damaged during this period shall be replaced at no expense to the department.
2. The retroreflective sheeting on all construction signs shall meet criteria established in Section 1007 of ADOT Standard Specifications and in Section 380 of the ADOT Traffic Engineering Policies, Guidelines and Procedures.
3. Signs installed on embedded posts shall be mounted at a minimum height of 7 feet as measured from the bottom of the sign to the near edge of the pavement. Signs to be in use for greater than 3 days shall be mounted on embedded posts if feasible. All other short-term signs may be installed on rigid posts, at the height recommended by the spring stand manufacturer.
4. The nearest edge or corner of a sign shall be approximately 12 feet from the nearest edge of pavement for all signs mounted on embedded posts.
5. Flags shall be mounted on top of all construction signs except the "END ROAD WORK THANK YOU" sign.
6. Type A flashing warning lights shall be required on all nighttime construction signs except the "END ROAD WORK THANK YOU" sign.
7. Type C steady-burning yellow lights shall be mounted on every barricade and vertical panel.
8. Channelizing devices shall be placed 20 feet on center in tapers and 40 feet on center in tangents, except as otherwise noted on plans.
9. Construction signs shall not be displayed to traffic more than 24 hours prior to the actual start of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after the completion of construction activities.
10. All construction signs shall have black letters on an orange background, except as otherwise noted.
11. Speed limit signing is preliminary and is subject to review and change by the Engineer as dictated by field conditions.
12. Where no closure is necessary but where there is construction alongside a roadway under construction, the Contractor shall place a 48 x 48 inch "ROAD WORK AHEAD" and "SHOULDER WORK AHEAD" sign as directed by the Engineer to alert the public to the construction activities.
13. Embedded sign post shall be adjusted by the contractor per Blue Stake and as approved by the Engineer to avoid utility conflicts.

DEVICES

14. The contractor may substitute Type 1 barricades for Type 2 barricades as long as the reflective area on the top panel of each Type 1 barricades is equivalent or greater than the reflective area of a Type 2 barricade.
15. For temporary concrete barrier markers, see ADOT Standard Drawing M-32 barrier markers. Markers shall be installed at 20 feet spacing. The installation price for the markers shall be considered part of the barrier cost.
16. When traffic control devices are not in use, they shall be moved at least 30 feet from the roadway and covered or turned away from traffic.
17. TCB shall be pinned to the roadway per ADOT Std. Det C-3 where 2 feet clearance to the work zone is not provided.

PLANS

18. The traffic control plans represent a suggested method for traffic control during construction. The contractor may prepare other 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.
19. Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities or as directed by the Engineer.

GENERAL

20. Temporary pavement markings shall be removed by approved methods when no longer required.
21. Temporary striping shall be waterbourne traffic paint (2 applications of 15 mil). The atmospheric temperature shall be at least 50 degrees F when the paint is applied to the pavement.

Table 1 - Sign Sheeting Selection by Sign Type or Application

Sign Type or Application	Sheeting Type				
	IV	VI	VIII	IX	XI
Temporary Signs (other than with orange backgrounds)[1]	X		X	X	X
Temporary Signs (rigid - with orange backgrounds) [1 2]			X	X	X
Temporary Signs (flexible or roll-up with orange backgrounds)[1 2]		X			
Temporary Channelizing Devices (barricades, etc.)	X		X	X	X

1. Non-reflective sign backgrounds may be used for temporary signs where the signs may be clearly visible under available natural light.
2. Temporary signs with an orange background shall use fluorescent orange sheeting conforming to Section 1007 of the Standard Specifications and the ADOT Approved Products List, except for signs in Note 1.

Registered Professional Engineer — CERTIFICATE — 45815 KATE E. BONDY — Date Signed 06/30/25 — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	W EVANS	06/25
DRAWN	W EVANS	06/25
CHECKED	C RICKETTS	06/25

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

TRAFFIC CONTROL NOTES

ROUTE 0
MILEPOST 0.00
STRUCTURE NO. 8229

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	00000 YV YYV	YYV-0(212)T	14	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

TRACS NO. T0414 01C

DWG No. TC-1.01

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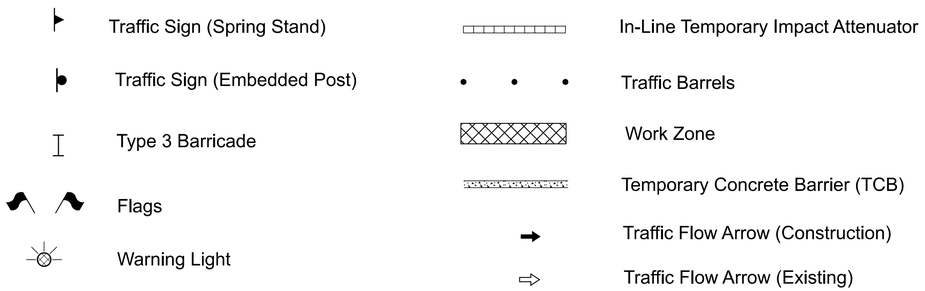
TRAFFIC CONTROL LEGEND



ESTIMATED QUANTITIES

Note: The table below shows the quantity of each item multiplied by the estimated days (calendar days) per phase.

ITEM NO.	ITEM	UNITS	TRAFFIC CONTROL				
			* ADV WARNING / PHASE 1	PHASE 2	PHASE 3	PHASE 4	TOTAL
	ESTIMATED PHASE CONSTRUCTION DURATION CALENDAR DAYS)	DAYS	240	43	49	21	240
7015010	TEMPORARY CONCRETE BARRIER (INSTALLATION AND REMOVAL)	L.FT.	0	184	212	184	580
7015020	TEMPORARY IMPACT ATTENUATORS (INSTALLATION AND REMOVAL)	L.FT.	0	2	2	2	6
7015052	OBLITERATE PAVEMENT MARKING (STRIPE)	L.FT.	66	0	0	0	66
7016020	TEMPORARY CONCRETE BARRIER (IN USE)	L.FT./DAY	0	7912	10388	3864	22164
7016021	TEMPORARY IMPACT ATTENUATORS (IN-USE)	EACH-DAY	0	86	98	42	226
7016031	BARRICADE (TYPE III, HIGH LEVEL FLAG TREE)	EACH-DAY	0	172	196	84	452
7016033	PORTABLE SIGN STANDS (SPRING TYPE)	EACH-DAY	480	0	0	0	480
7016034	DRUM (4-M-2.07 OR APPROVED ALT.)	EACH-DAY	0	774	980	378	2132
7016035	WARNING LIGHTS (TYPE A)	EACH-DAY	960	0	0	0	960
7016037	WARNING LIGHTS (TYPE C)	EACH-DAY	0	1118	1372	546	3036
7016039	EMBEDDED SIGN POST	EACH-DAY	2880	0	0	0	2880
7016051	TEMPORARY SIGN (LESS THAN 10 S.F.)	EACH-DAY	960	0	0	0	960
7016052	TEMPORARY SIGN (10 S.F. OR MORE)	EACH-DAY	480	0	0	0	480
7080201	WATERBORNE - TYPE I PAVEMENT MARKING (PAINTED) (WHITE)	L.FT.	66	0	0	0	66

* THIS TIME PERIOD ALSO INCLUDES PRELIMINARY ACTIVITY AND ALL PHASES.

Registered Professional Engineer — KATE E. BONDY — 45815 — Date Signed 06/25/2025 — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	W EVANS	06/25
DRAWN	W EVANS	06/25
CHECKED	C RICKETTS	06/25

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

TRAFFIC CONTROL LEGEND AND QUANTITIES

ROUTE 0
MILEPOST 0.00
STRUCTURE NO. 8229

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	00000 YV YYV	YYV-0(212)T	15	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

TRACS NO. T0414 01C

DWG No. TC-1.02

____ OF ____

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MAINTENANCE OF TRAFFIC

Activity No.	CONSTRUCTION ACTIVITY	TRAFFIC CONTROL	COMMENTS
Preliminary Activity	On Walnut Grove Rd: - Provide advanced warning signage. - Construct access road.	- Provide standard long term advance warning signs per these traffic control plans. - Install temporary stop bar and stop sign (spring stand). - Maintain traffic in current location	- Stop bar and stop sign to remain in place for the duration of construction.
Phase 1	On Walnut Grove Rd: - Install TCB. - Construct new box culvert under existing bridge. - Place flowable fill material under existing superstructure and on west side of the existing superstructure up to the bottom of the new subgrade.	- Maintain traffic in current location	- Stop bar and stop sign to remain in place for the duration of construction.
Phase 2	On Walnut Grove Rd: - Shift TCB. - Remove existing guardrail and curb along the west side of the existing superstructure. - Construct proposed subgrade and pavement along the west side of the existing superstructure, retaining walls, and approach roadway from station 120+56 to station 123+69.	- Shift traffic to 11'-0" lane along the east side of existing Walnut Grove Rd Bridge.	- Stop bar and stop sign to remain in place for the duration of construction.
Phase 3	On Walnut Grove Rd: - Shift TCB. - Remove 8'- 9 1/2" of existing northbound half of existing superstructure. - Place AB material on the east side to the bottom of the proposed subgrade. - Construct proposed subgrade and pavement, retaining walls, and approach roadway along the east side of Walnut Grove Rd. from station 120+56 to station 123+69.	- Shift traffic to 11'-0" lane along the west side of Walnut Grove Rd.	- Stop bar and stop sign to remain in place for the duration of construction.
Phase 4	On Walnut Grove Rd: - Remove the remainder of existing superstructure. - Place AB material on the center section to the bottom of the proposed subgrade. - Construct remaining pavement section. - Remove TCB.	- Shift traffic to 10'-0" lane along the east side of Walnut Grove Rd.	- Stop bar and stop sign to remain in place for the duration of construction.

CONSTRUCTION TRAFFIC CONTROL DURATION

Calendar Days per Activity:

Preliminary Activity: 240 Calendar Days

Phase 1: 119 Calendar Days

Phase 2: 43 Calendar Days

Phase 3: 49 Calendar Days

Phase 4: 21 Calendar Days

Total Calendar Days Duration:
240 Days

Registered Professional Engineer
45815
KATE E. BONDY
ARIZONA, U.S.A.
Date signed 06/30/2025

	NAME	DATE
DESIGN	W EVANS	06/25
DRAWN	W EVANS	06/25
CHECKED	C RICKETTS	06/25

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

MAINTENANCE OF TRAFFIC TABLE

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	00000 YV YYV	YYV-0(212)T	16	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. TC-1.03

TRACS NO. T0414 01C

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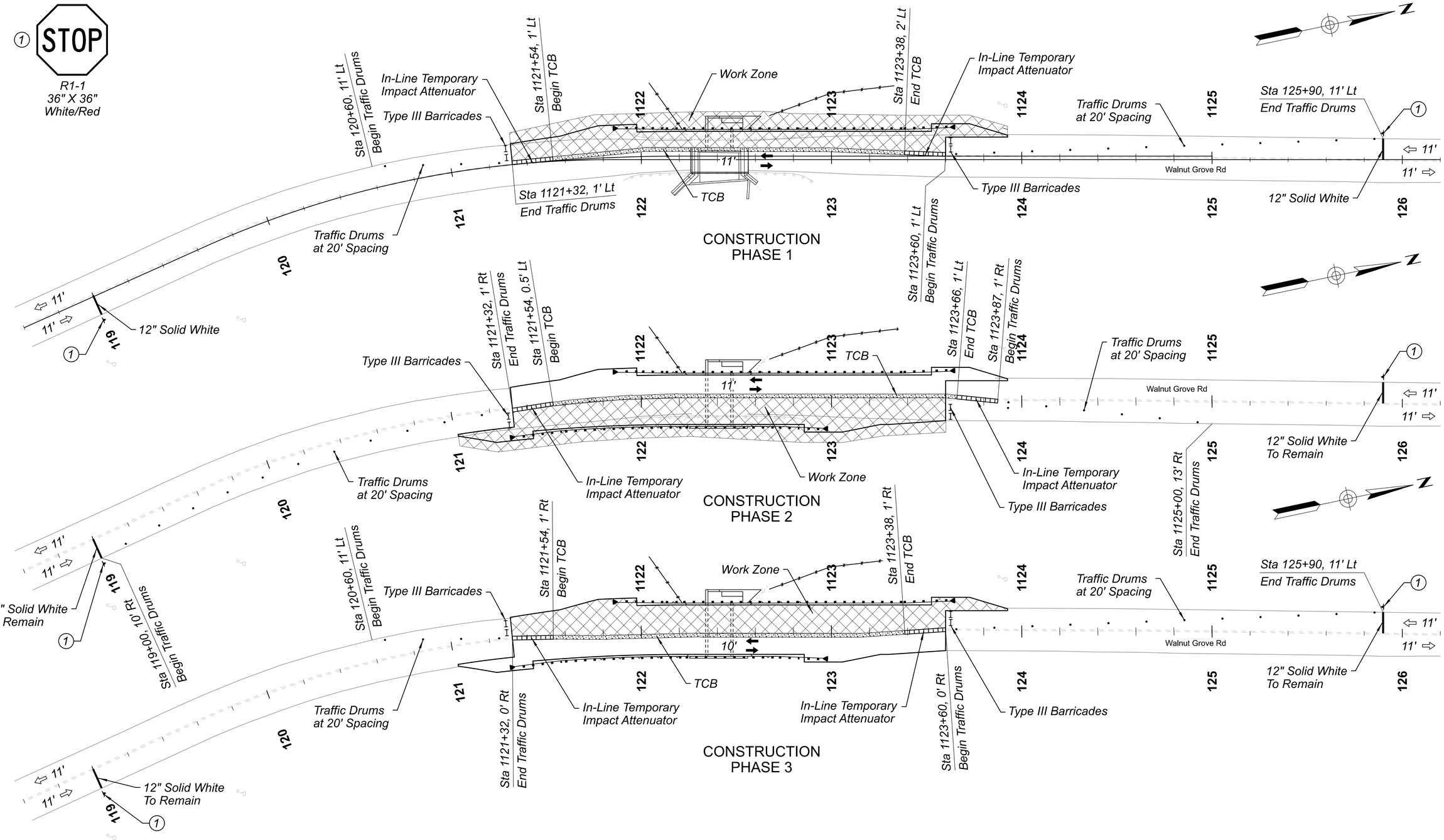

	NAME	DATE
DESIGN	W EVANS	06/25
DRAWN	W EVANS	06/25
CHECKED	C RICKETTS	06/25

Registered Professional Engineer
CERTIFICATE NO.
45815
KATE E. BONDY
Date Signed 06/25/2025
ARIZONA, U.S.A.

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

WASH BRIDGE
CONSTUCTION PHASING

ROUTE 0
MILEPOST 0.00
STRUCTURE NO. 8229

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	00000 YV YYY	YYV-0(212)T	17	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

TRACS NO. T0414 01C

DWG No. TC-2.01

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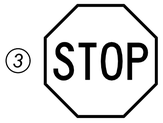
BLACK/ORANGE

W5-3
36" X 36"
BLACK/ORANGE



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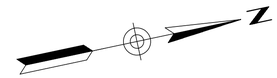
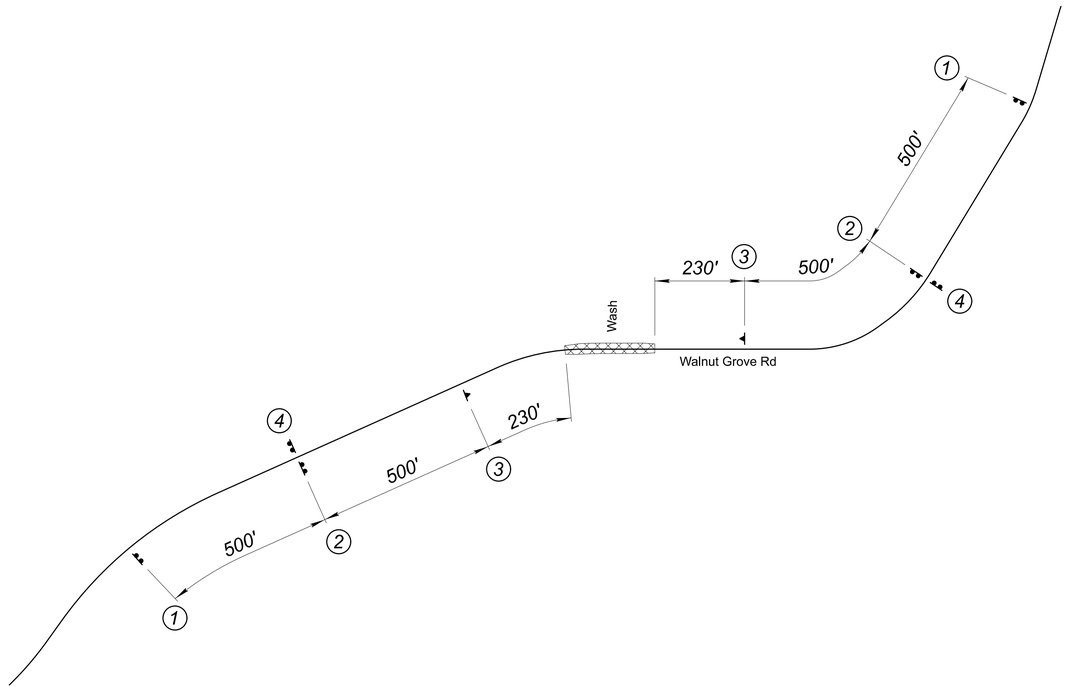
WHITE/RED

G20-2AZ
48" X 36"
BLACK/ORANGE





	NAME	DATE
DESIGN	W EVANS	06/25
DRAWN	W EVANS	06/25
CHECKED	C RICKETTS	06/25

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Registered Professional Engineer
CERTIFICATE NO.
45815
KATE E. BONDY
Date Signed 06/12/2025
ARIZONA, U.S.A.

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

TRAFFIC CONTROL
ADVANCED WARNING SIGNING

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	00000 YV YYV	YYV-0(212)T	18	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. TC-2.02

TRACS NO. T0414 01C

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SIGNING GENERAL NOTES:

1. All signs shall be in compliance with the Manual on Uniform Traffic Control Devices (MUTCD), the ADOT Signing And Marking Standard Drawings, the ADOT Traffic Engineering Manual of Approved Signs, these plans, and the special provisions.
2. Signing may be modified as directed by the Engineer. The Engineer may shift the location of a sign to a more favorable location in accordance with the Standard Drawings.
3. Normal offset for all signs shall be 12 feet from the near edge of the sign to the face of curb unless otherwise noted on the signing summary sheet, on the plans, or as directed by the Engineer.
4. All sign locations and post lengths are approximate. The contractor shall verify the actual sign locations with the Engineer prior to constructing the foundations for the sign supports. The contractor shall verify actual post lengths after final grading.
5. Normal mounting height for the bottom of the lowest sign on the post shall be seven feet above the nearest shoulder edge or top of curb elevation. The bottom of the sign shall be at the least 7 feet above the ground under the sign unless otherwise noted.
6. The contractor shall remove existing signing where indicated in the sign summary. Foundations of the existing signs that are to be removed or relocated shall be removed a minimum of 2 feet below finished grade.
7. The contractor shall inventory all signs to remain or be relocated, and note damaged signs to the Engineer before construction begins. All signs subsequently damaged shall be replaced by the contractor at no additional cost.
8. All new signs shall be installed on new square tube posts with foundations as indicated in the Std Dwgs S-1 and S-3.
9. All metal hardware shall be stainless steel, galvanized cadmium plated or aluminum to prevent rust.
10. All signs shall be fabricated of flat sheet aluminum panels with copy meeting the requirements of sections 608-2.02 through 608-2.12 of the Specifications. All signs shall meet the criteria established for sheeting in section 1007.
11. Quantities are approximate and for the contractor's information only.
12. All dimensions are in feet, unless otherwise noted.
13. Where indicated on the sign summary, and as indicated by the Engineer, new slip bases shall be installed as shown on ADOT Standard Drawing S-1.
14. Existing reference location mile markers (D10-3) shall be surveyed prior to sign removal and the new reference location mile marker shall be placed in the same location, laterally, as it was previously located.
15. Adjust location of signage foundations per AZ811 and as approved by Engineer.

PAVEMENT MARKING GENERAL NOTES:

1. All striping shall be in compliance with the ADOT Signing and Marking Standard Drawings and the Manual on Uniform Traffic Control Devices (MUTCD).
2. The pavement marking drawings are schematic only and not to scale. The contractor shall follow all dimensions, details and standards when installing pavement markings and markers.
3. All dimensions are in feet unless otherwise noted on the plans or the detailed drawings.
4. All striping dimesions are to the face of curb or edge of pavement, unless otherwise noted.
5. 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.
6. The permanent pavement marking plans may be modified as directed by the Engineer.
7. 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.

APPROXIMATE SIGNING QUANTITIES

BID ITEM NO.	ITEM	UNITS	TOTAL
2020156	REMOVE (SIGN ASSEMBLY, POST, AND FOUNDATION)	EACH	8
6070038	SLIPBASE	EACH	4
6070054	SIGN POST (PERFORATED) (2S)	L. FT.	48
6070060	FOUNDATION FOR SIGN POST (CONCRETE)	EACH	4
7030080	OBJECT MARKER (M-23) (TYPE 3)	EACH	4

APPROXIMATE PAVEMENT MARKING QUANTITIES

BID ITEM NO.	ITEM	UNITS	TOTAL
7080202	WATERBORNE-TYPE I PAVEMENT MARKING (PAINTED) (YELLOW)	L. FT	1368

Registered Professional Engineer — CERTIFICATE — 45815 KATE E. BONDY — Date Signed 06/25/2025 — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	W EVANS	06/25
DRAWN	W EVANS	06/25
CHECKED	C RICKETTS	06/25

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

SIGNING AND PAVEMENT MARKING GENERAL NOTES AND QUANTITIES

ROUTE 0 | MILEPOST 0.00 | STRUCTURE NO. 8229

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	00000 YV YYV	YYV-0(212)T	19	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

TRACS NO. T0414 01C

DWG No. T-1.01

____ OF ____

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Plan Sht No.	Sign Number	Sign Code	Work: New	Work: Existing: Replace Panel	Work: Existing: Relocate Panel	Work: Existing: Relocate Str	Work: Existing: Remove	Work: Existing: To Remain	Offset (ft)	Mounting Height (ft)	Background Color	Panel: Legend	Panel: Width (in)	Panel: Height (in)	Panel: Area (sq. ft.)	Panel: Type	Panel: Bid Item Number	Ground Mounted: Foundations	Ground Mounted: Posts: Type	Ground Mounted: Posts: Total length (ft)	New Slipbases	Stringer: Type	Stringer: Total Length (ft)	Overhead: Structure Type	Overhead: # of Lights	Remarks
T-3.01	NBWG1	W5-2					X					NARROW BRIDGE					2020156									
T-3.01	NBWG2	R12-1					X					WEIGHT LIMIT 15 TONS					2020156									
T-3.01	NBWG3	OM-3(1)R	X						3	4	YL	Type 3(1) R					7030080	1	2S	12	1					
T-3.01	NBWG4	OM-3(1)L	X						3	4	YL	Type 3(1) L					7030080	1	2S	12	1					
T-3.01	NBWG5	OM-3(1)L					X					Type 3(1) L					2020156									
T-3.01	NBWG6	OM-3(1)R					X					Type 3(1) R					2020156									
T-3.01	SBWG1	OM-3(1)R					X					Type 3(1) R					2020156									
T-3.01	SBWG2	OM-3(1)L					X					Type 3(1) L					2020156									
T-3.01	SBWG3	OM-3(1)L	X						3	4	YL	Type 3(1) L					7030080	1	2S	12	1					
T-3.01	SBWG4	OM-3(1)R	X						3	4	YL	Type 3(1) R					7030080	1	2S	12	1					
T-3.01	SBWG5	R12-1					X					WEIGHT LIMIT 15 TONS					2020156									
T-3.01	SBWG6	W5-2					X					NARROW BRIDGE					2020156									

Notes:

1. The Engineer shall verify post lengths and elevations.
2. The engineer may shift a sign in order to achieve a more desirable location.
3. Quantities are approximate and for the contractor's information only.
4. Minimum sheeting type shall be Type IX or XI for all signs.

Panel Types:

- RWM: Regulatory, Warning, or Marker
- F-DA: Flat-sheet aluminum with direct applied or silk-screened characters
- F-Dem: Flat-sheet aluminum with demountable characters
- Ext: Aluminum extrusions
- Incr: Aluminum sheet increment
- Over: Overhead (New overlaid extrusions)

Stringer Types: P: Square-tube Post; T: T-section (WT 3x6)

Post Types: S: Single perforated; T: Telescoping perforated

BRF: Overhead Bridge Fascia Sign Structure

Colors: BK - BLACK; BL - BLUE; BR - BROWN; GR - GREEN; RD - RED; WH - WHITE; YL - FLUORESCENT YELLOW

Registered Professional Engineer — 45815 — KATE E. BONDY — Date Signed 06/25/2025 — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	W EVANS	06/25
DRAWN	W EVANS	06/25
CHECKED	C RICKETTS	06/25

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

SIGN SUMMARY

ROUTE 0
MILEPOST 0.00
STRUCTURE NO. 8229

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	00000 YV YYV	YYV-0(212)T	20	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. T-2.01

TRACS NO. T0414 01C

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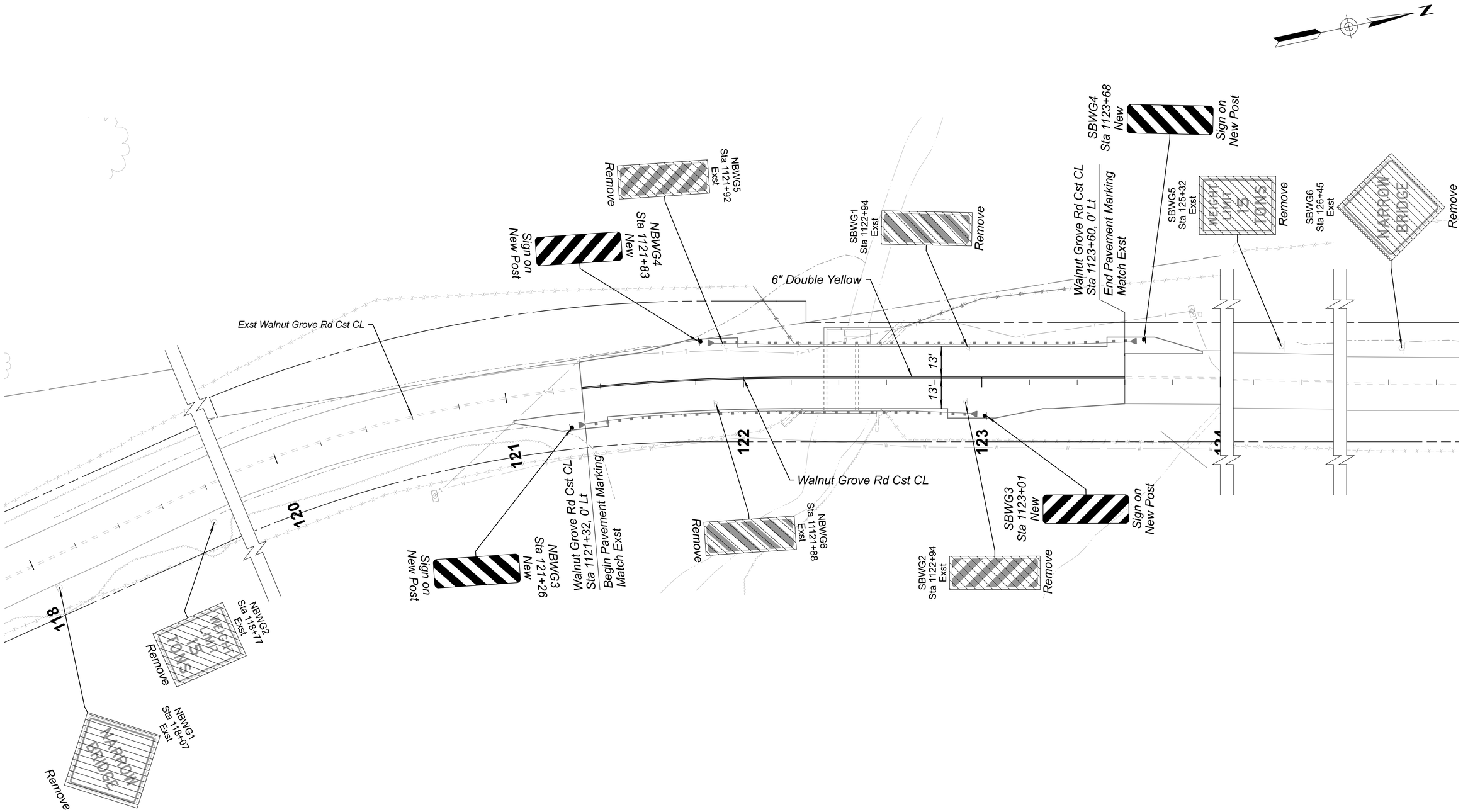

	NAME	DATE
DESIGN	W EVANS	06/25
DRAWN	W EVANS	06/25
CHECKED	C RICKETTS	06/25

Registered Professional Engineer — CERTIFICATE 45815 — KATE E. BONDY — Date Signed 06/25/2025 — ARIZONA, U.S.A.

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

SIGNING & PAVEMENT MARKING
STA 119+00 TO STA 125+00

ROUTE 0
MILEPOST 0.00
STRUCTURE NO. 8229

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	00000 YV YYV	YYV-0(212)T	21	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

TRACS NO. T0414 01C

DWG No. T-3.01

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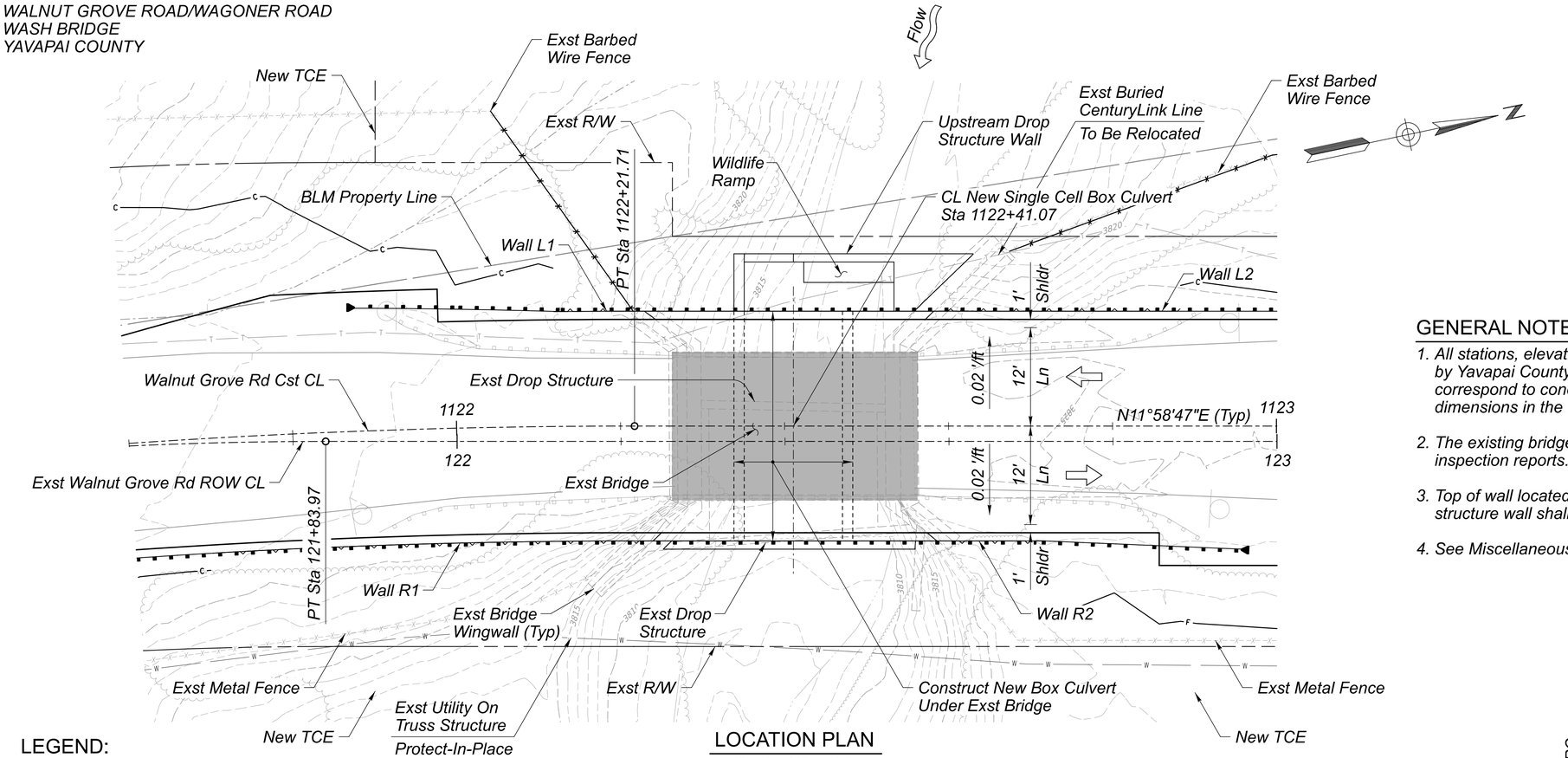
WALNUT GROVE ROAD/WAGONER ROAD
WASH BRIDGE
YAVAPAI COUNTY

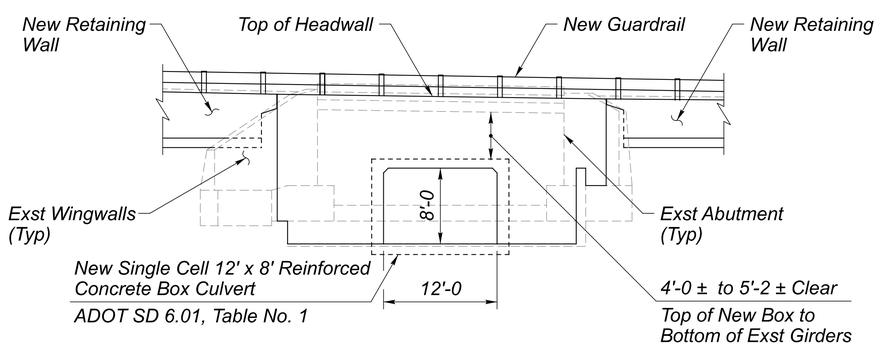


LOCATION PLAN

Scale: ⅛" = 1'-0

LEGEND:

Remove Exst Bridge Superstructure & Concrete Drop Structures Between Bridge Abutments



ADOT SD 6.01, Table No. 1

ELEVATION

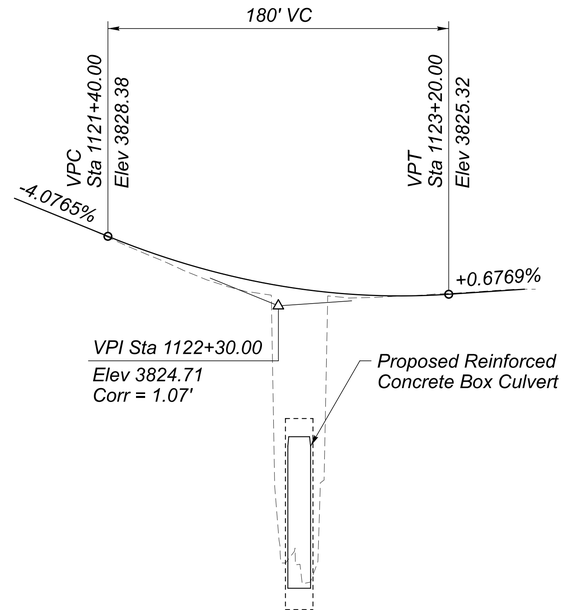
Scale: ⅛" = 1'-0

Left Center
Masked
3 Lines

DRAWING INDEX

GENERAL NOTES:

1. All stations, elevations & dimensions shown are based on survey provided by Yavapai County & AECOM Technical Services, Inc. & do not necessarily correspond to conditions now existing. Contractor shall verify all relevant dimensions in the field prior to fabrication of all materials.
2. The existing bridge was constructed in 1930 according to the latest bridge inspection reports. There are no record drawings of the existing bridge.
3. Top of wall located within the wash slope at southwest corner of drop structure wall shall match existing ground elevation.
4. See Miscellaneous Details for additional information.



WALNUT GROVE RD PGL

NTS

Call at least two full working days before you begin excavation
ARIZONA 811 Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
in Maricopa County: (602) 263-1100

Registered Professional Engineer
CERTIFICATE NO. 53092
BENJAMIN C. ANSLEY
State of Arizona
Date Signed 6/9/25

	NAME	DATE
DESIGN	B ANSLEY	06/25
DRAWN	T TALBERT	06/25
CHECKED	R STUART	06/25

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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 1122+
WASH BRIDGE
GENERAL PLAN & ELEVATION

ROUTE	0
MILEPOST	0.00
STRUCTURE NO.	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	22	36	
LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)						DWG No. S-1.01
TRACS NO. T0414 01C						____ OF ____

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GENERAL NOTES:

Construction Specifications - Arizona Department of Transportation Standard Specifications for Road & Bridge Construction, Edition of 2021.

Design Specifications - AASHTO LRFD Bridge Design Specifications, 9th Edition, 2020 & current interims.

Loading Class - HL-93

Design Soil Weight = 120 pcf

Seismic Performance - Seismic Zone 1, Site Class D, Peak Ground Acceleration = 0.083g, S_DS = 0.307g, S_D1 = 0.134g.

All concrete shall be Class 'S' unless noted otherwise.

Reinforcing steel shall conform to ASTM Specification A615. All reinforcing shall be furnished as Grade 60.

All bends & hooks shall meet the requirements of AASHTO Article 5.10. All bend dimensions for reinforcing steel shall be out-to-out of bars. All placement dimensions for reinforcing steel shall be to center of bars unless noted otherwise.

All reinforcing steel shall have 2 inches clear cover unless noted otherwise.

Stresses:

Reinforced Concrete Box Culvert	*f'c = 3000 psi*
Headwall Concrete	*f'c = 4000 psi*
All Other Concrete	*f'c = 3000 psi*
Grade 60 Reinforcing	*fy = 60,000 psi*

Chamfer all exposed corners ¾" unless noted otherwise.

Dimensions shall not be scaled from drawings.

Construction joints not shown on the plans shall require approval of the Engineer prior to construction.

Bridge removal quantity includes required removal of top of existing wingwalls & backwalls to construct new retaining walls & place roadway section.

See ADOT SD 5.01 & SD 5.02 for wingwall & drop structure Structural Excavation & Structure Backfill payment limits.

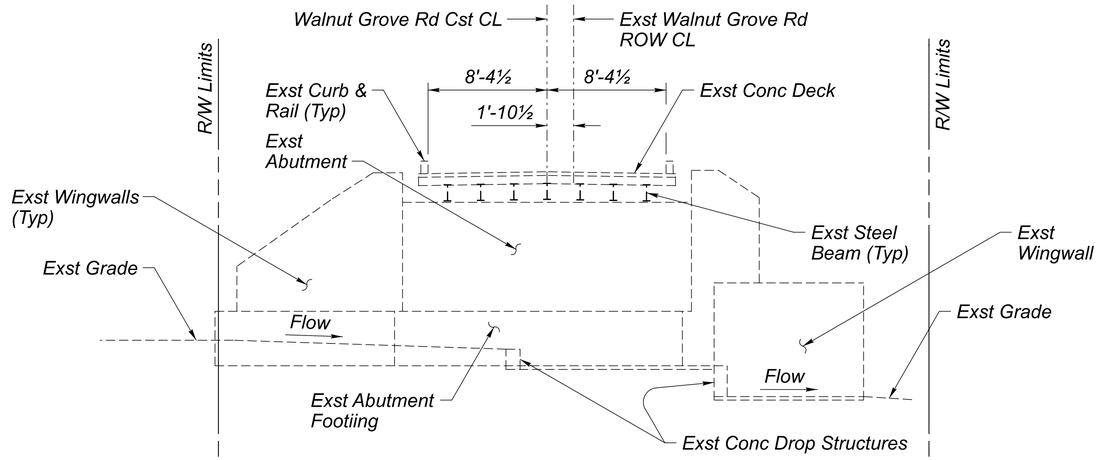
Ground limits under flowable fill areas, not including existing abutments, shall be scarified to a minimum depth of 6 inches, brought to within ± 2% of optimum moisture content & compacted to a minimum of 95% of the maximum density prior to any placement of flowable material.

ADOT STANDARD DRAWING LIST

SD 5.01, SD 5.02, SD 6.01 & SD 7.01

APPROXIMATE QUANTITIES						
Item	*Structural Excavation CY*	*Structure Backfill CY*	*Class "S" Concrete f'c = 3000 psi CY*	*Class "S" Concrete f'c = 4000 psi CY*	*Reinforcing Steel LBS*	*Structural Fill (Flowable Fill) CY*
RCBC	*119*	*26*	*21*	*80*	*13,135*	*203*
Total	*119*	*26*	*21*	*80*	*13,135*	*203*
As-Built Total						

Remove Bridge ..... 1 LS

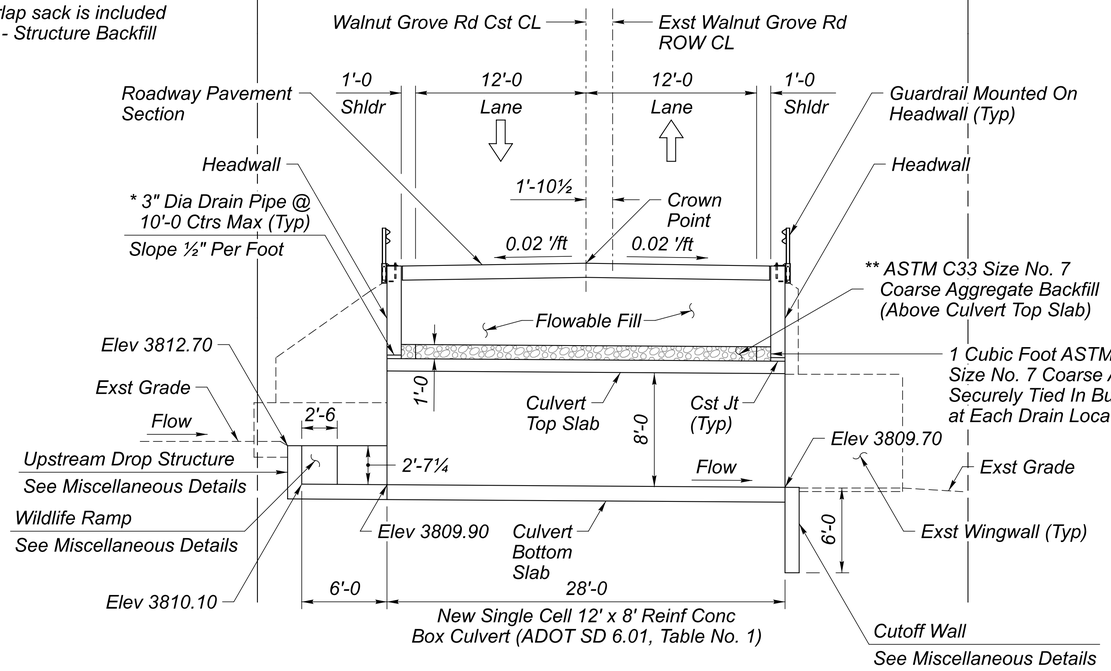


EXISTING TYPICAL SECTION

Looking Ahead On Station
Scale: 3/16" = 1'-0

* *Drain Pipes are included in the cost of Item No. 6010004 - Structural Concrete (Class 'S') (f'c = 4,000 psi).*

** *Coarse Aggregate Backfill & burlap sack is included in the cost of Item No. 2030509 - Structure Backfill (Flow Fill).*



PROPOSED TYPICAL SECTION

Looking Ahead On Station
Scale: 3/16" = 1'-0

Registered Professional Engineer CERTIFICATE NO. 53092 BENJAMIN C. ANSLEY Date Signed 06/25/2025 COPIES

	NAME	DATE
DESIGN	B ANSLEY	06/25
DRAWN	T TALBERT	06/25
CHECKED	R STUART	06/25

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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 1122+
WASH BRIDGE
GENERAL NOTES, TYPICAL SECTION & QUANTITIES

ROUTE 0
MILEPOST 0.00
STRUCTURE NO. 8229

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 YV YYV	YYV-0(212)T	23	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. S-1.02

TRACS NO. T0414 01C

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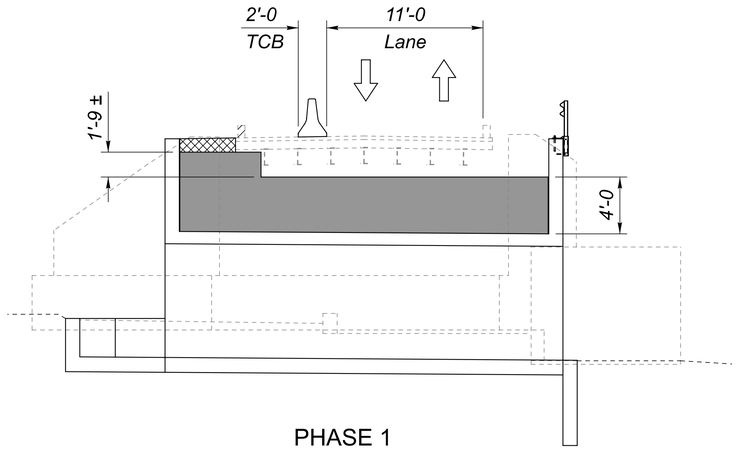
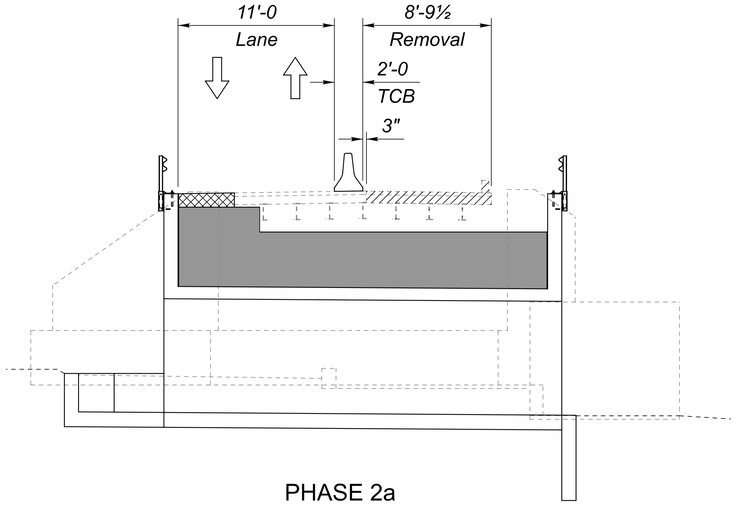


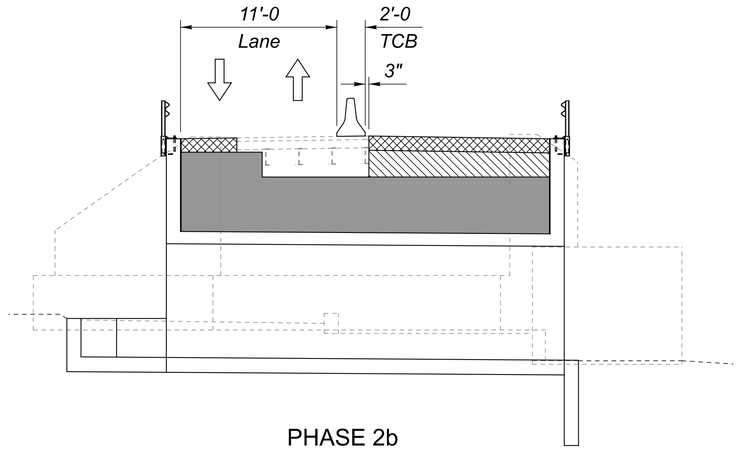
PHASE 1

Looking Ahead On Station
Scale: 3/16" = 1'-0



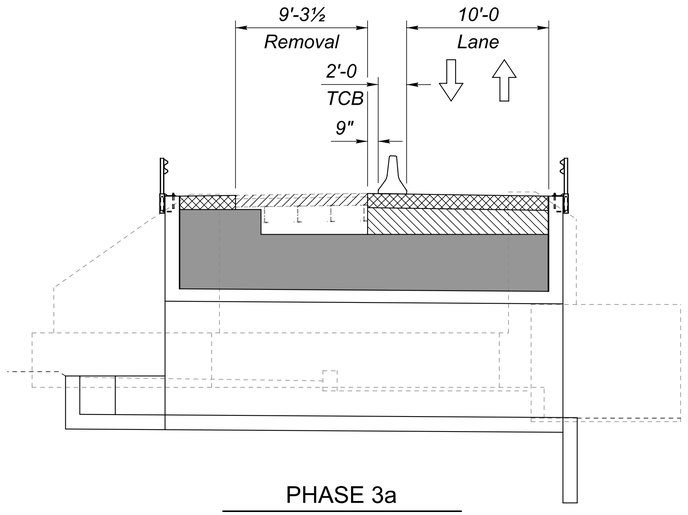
PHASE 2a

Looking Ahead On Station
Scale: 3/16" = 1'-0



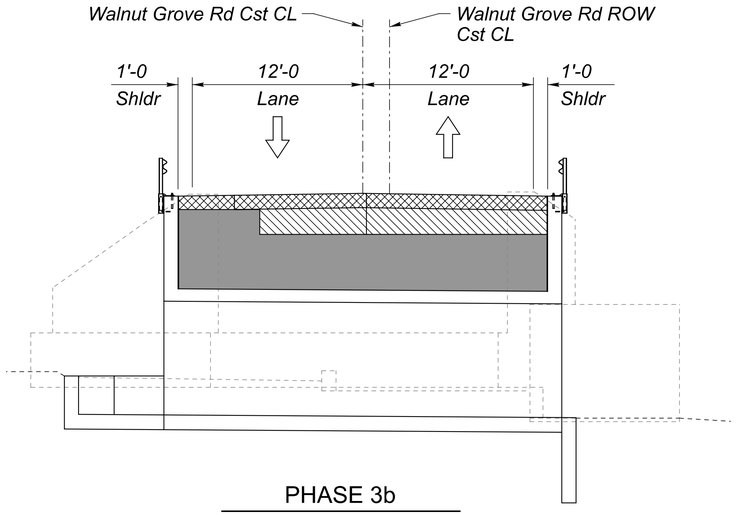
PHASE 2b

Looking Ahead On Station
Scale: 1/16" = 1'-0



PHASE 3a

Looking Ahead On Station
Scale: 3/16" = 1'-0



PHASE 3b

Looking Ahead On Station
Scale: 3/16" = 1'-0

NOTES:

1. *Temporary Concrete Barrier (TCB) shall be pinned where there is less than 2 feet from edge of TCB to edge of removal limits.*
2. *TCB shall be pinned to existing bridge deck during Phase 2. See Dwg S-1.04 for Barrier Connection Detail to existing bridge deck.*
3. *TCB shall be pinned to pavement during Phase 3. Pinning shall be per ADOT Signing & Marking Standard Drawing No. C-3, Sheet 2 of 2.*
4. *Pavement section shall be completely placed in Phase 3 prior to removal of TCB.*

LEGEND:

- *Limits of Structural Removal*
- *Flowable Fill Material*
- *AB Material*
- *New Pavement Section*

Registered Professional Engineer — CERTIFICATE NO. 53092 — BENJAMIN C. ANSLEY — State of Arizona — 06/30/2026

	NAME	DATE
DESIGN	B ANSLEY	06/25
DRAWN	T TALBERT	06/25
CHECKED	R STUART	06/25

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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 1122+
WASH BRIDGE
CONSTRUCTION PHASING

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	24	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. S-1.03

TRACS NO. T0414 01C

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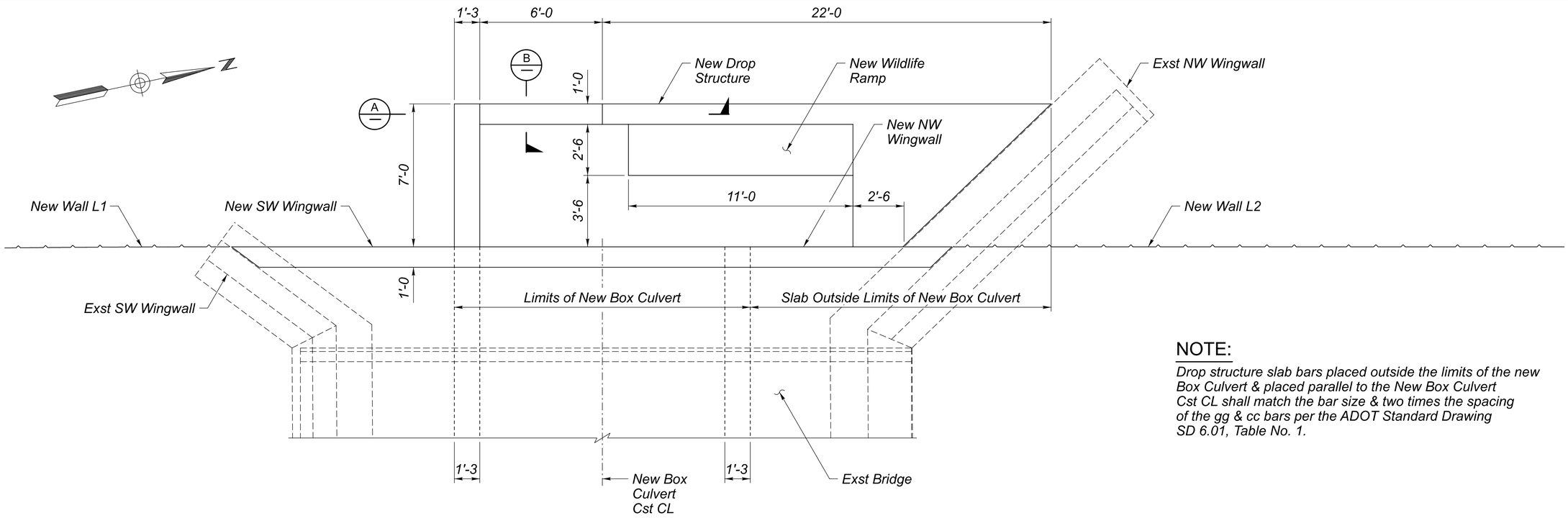
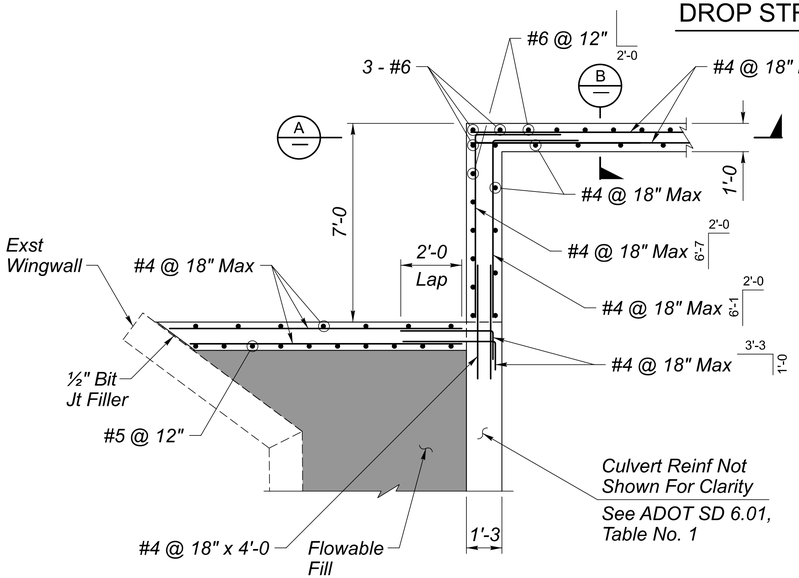


NOTE:

Drop structure slab bars placed outside the limits of the new Box Culvert & placed parallel to the New Box Culvert Cst CL shall match the bar size & two times the spacing of the gg & cc bars per the ADOT Standard Drawing SD 6.01, Table No. 1.

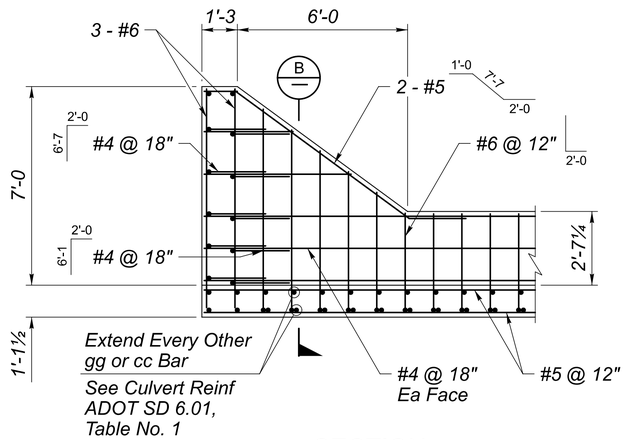
DROP STRUCTURE PLAN (WEST SIDE)

Scale: ⅜" = 1'-0



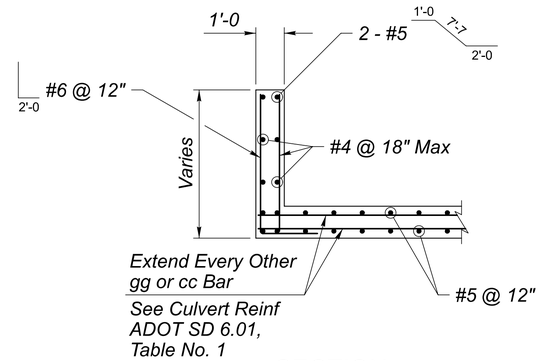
SW PLAN

Scale: ⅜" = 1'-0



SECTION A

Scale: ⅜" = 1'-0



SECTION B

Scale: ⅜" = 1'-0

Registered Professional Engineer CERTIFICATE NO. 53092 BENJAMIN C. ANSLEY Date Signed 06/25/2025 COMPLETIONS ONLY

	NAME	DATE
DESIGN	B ANSLEY	06/25
DRAWN	T TALBERT	06/25
CHECKED	R STUART	06/25

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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 1122+
WASH BRIDGE
MISCELLANEOUS DETAILS (1 OF 2)

ROUTE 0
MILEPOST 0.00
STRUCTURE NO. 8229

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 YV YYV	YYV-0(212)T	25	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. S-1.04

TRACS NO. T0414 01C

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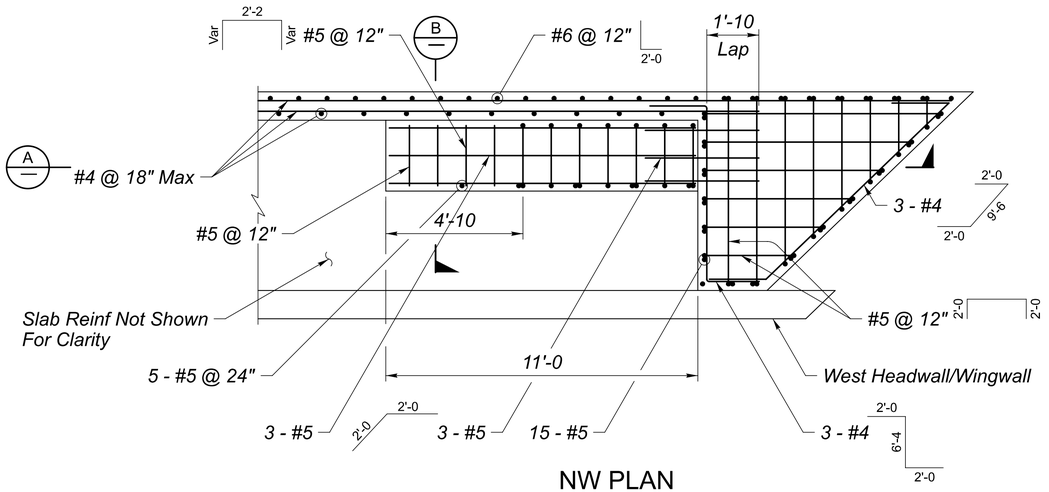
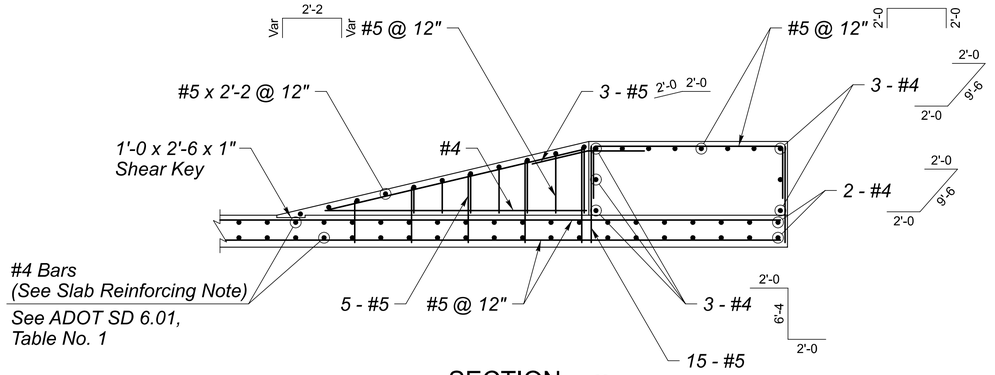


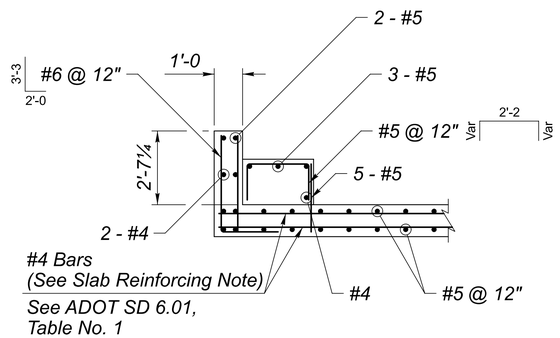
NW PLAN

Scale: ⅜" = 1'-0



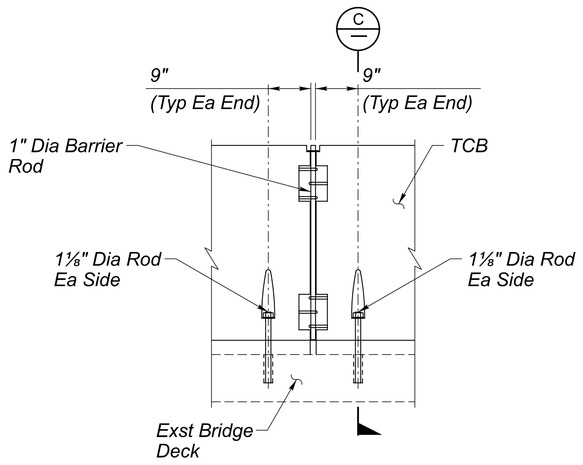
SECTION A

Scale: ⅜" = 1'-0



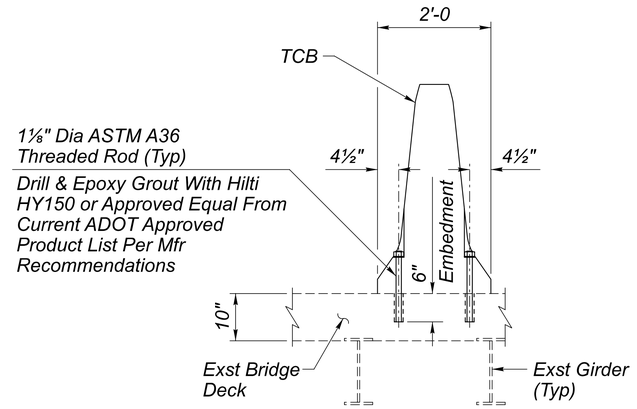
SECTION B

Scale: ⅜" = 1'-0



BARRIER CONNECTION DETAIL

Scale: ¾" = 1'-0



SECTION (EXST BRIDGE DECK) C

Scale: ¾" = 1'-0

SLAB REINFORCING NOTE:

Bottom slab bars placed outside the limits of the New Box Culvert & placed parallel to the New Box Culvert Cst CL shall match the bar size & 2 times the spacing of the gg & cc bars per the ADOT Standard Drawing SD 6.01, Table No. 1.

TCB CONNECTION NOTES:

1. *TCB shall be pinned to existing deck during Phase 2. The contractor shall submit details of the anchorage system to the Engineer for approval prior to installation.*
2. *To the extent possible, locate threaded rods to avoid transverse & longitudinal deck bars. If necessary, up to 2 transverse bars may be cut within a 12'-6 length of TCB to accomodate installation of threaded rods.*
3. *Threaded rods, epoxy grout & all apurtenances shall be considered to be included in the cost of Item No. 7015010 - Temporary Concrete Barrier (Installation & Removal). No separate measurement or payment will be made for these items.*

Registered Professional Engineer (Civil) CERTIFICATE NO. 53092 BENJAMIN C. ANSLEY — State of Arizona

	NAME	DATE
DESIGN	B ANSLEY	06/25
DRAWN	T TALBERT	06/25
CHECKED	R STUART	06/25

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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 1122+
WASH BRIDGE
MISCELLANEOUS DETAILS (2 OF 2)

ROUTE 0
MILEPOST 0.00
STRUCTURE NO. 8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	26	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)
DWG No. S-1.05
TRACS NO. T0414 01C
____ OF ____

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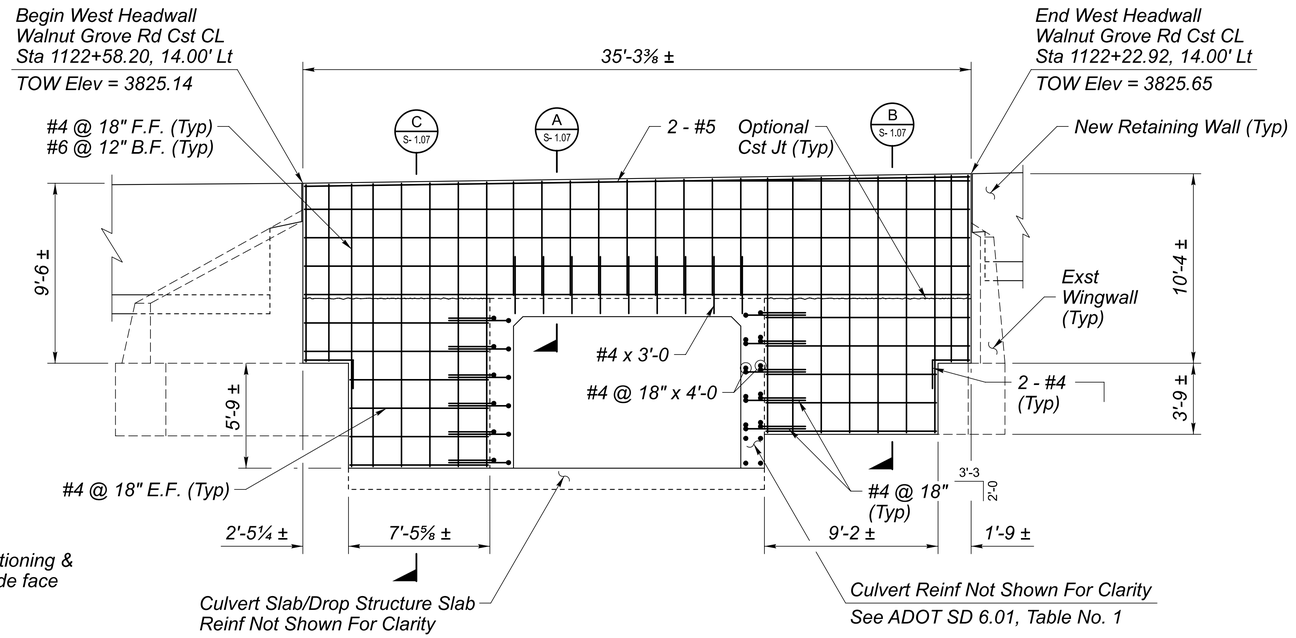
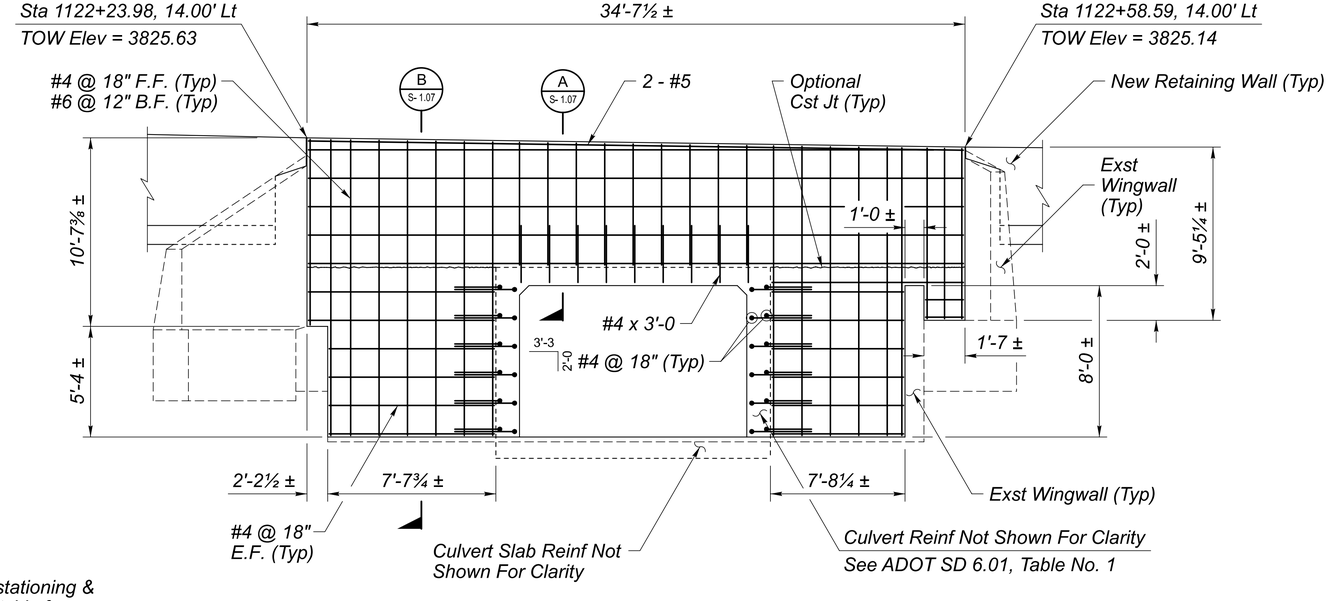


WEST HEADWALL/WINGWALL ELEVATION

Scale: ¼" = 1'-0

NOTE:

Headwall dimensions, stationing & offsets measured at outside face of wall.



EAST HEADWALL/WINGWALL ELEVATION

Scale: ¼" = 1'-0

NOTE:

Headwall dimensions, stationing & offsets measured at outside face of wall.

Registered Professional Engineer
CERTIFICATE NO.
53092
BENJAMIN C. ANSLEY
STATE OF ARIZONA
12/31/2025

	NAME	DATE
DESIGN	B ANSLEY	06/25
DRAWN	T TALBERT	06/25
CHECKED	R STUART	06/25

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ARIZONA DEPARTMENT OF TRANSPORTATION
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BRIDGE GROUP

STA 1122+
WASH BRIDGE
WINGWALL/HEADWALL DETAILS (1 OF 2)

ROUTE 0
MILEPOST 0.00
STRUCTURE NO. 8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	27	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. S-1.06

TRACS NO. T0414 01C

____ OF ____

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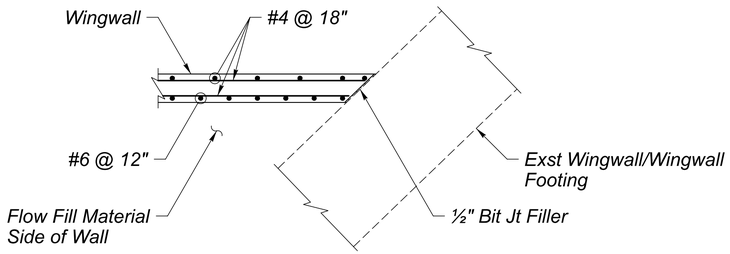
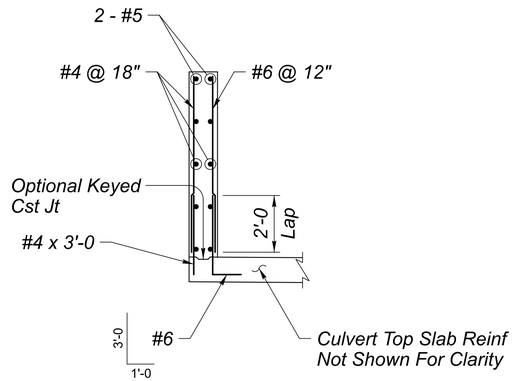


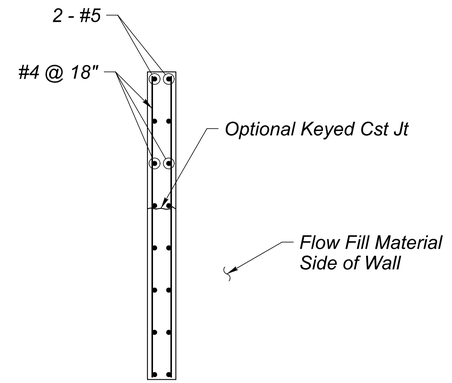
TYPICAL NEW WINGWALL TO
EXISTING WINGWALL DETAIL

Scale: ⅜" = 1'-0



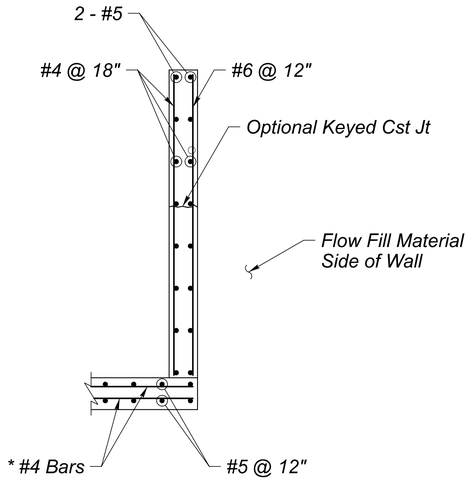
SECTION A S-1.06

Scale: ⅜" = 1'-0



SECTION B S-1.06

Scale: ⅜" = 1'-0



SECTION C S-1.06

Scale: ⅜" = 1'-0

* *Match the bar size & 2 times the spacing of the gg & cc bars per the ADOT Standard Drawing SD 6.01, Table No. 1.*

Registered Professional Engineer — CERTIFICATE NO. 53092 — BENJAMIN C. ANSLEY — State of Arizona — 06/30/2026

	NAME	DATE
DESIGN	B ANSLEY	06/25
DRAWN	T TALBERT	06/25
CHECKED	R STUART	06/25

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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 1122+
WASH BRIDGE
WINGWALL/HEADWALL DETAILS (2 OF 2)

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	28	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. S-1.07

TRACS NO. T0414 01C

____ OF ____

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RETAINING WALL GENERAL NOTES:

Construction Specifications - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, Edition of 2021.

Design Specifications - AASHTO LRFD Bridge Design Specifications, Current Edition.

Walls shall be constructed in accordance with the Standards and/or Special Details indicated, unless noted otherwise.

Use of ADOT Standard Wall Drawings - Where Standard Drawings are used, wall cross section dimensions and reinforcing shall be per 'H' indicated on the project plans. Top of wall and top of footing elevations shall be as shown on the Project Plans regardless of the value of "H'.

ADOT Standard SD 7.01 wall footings shall not be poured continuously. See Joint Details.

Chamfer all exposed corners ½" unless noted otherwise.

Dimensions shall not be scaled from drawings.

Seismic Performance - Seismic Zone 1, Site Class D, Peak Ground Acceleration = 0.083g, S_DS = 0.307g, S_D1 = 0.134g.

Stresses:

Concrete (Cast-In-Place Walls)	*f'c = 3000 psi*
All other Class 'S' Concrete (unless noted otherwise)	*f'c = 3000 psi*
Grade 60 reinforcing steel (unless noted otherwise)	*fy = 60,000 psi*

Temporary Shoring - Temporary shoring may be required for excavation and construction of walls to accomplish the work without adversely affecting existing facilities/utilities. The contractor shall be responsible for providing temporary shoring as required to maintain traffic, to protect utilities, for protection of workers or as otherwise needed to accomplish the work. The contractor shall submit a plan outlining construction procedures, shoring requirements and design to the Engineer for review and approval prior to proceeding with the work. For additional information, see the Special Provisions. No additional payment will be made for temporary shoring.

RETAINING WALL GENERAL NOTES (CONT):

Retaining wall geometry refers to the exposed face of wall, unless noted otherwise.

Where retaining walls support roadways, the top of wall shall follow the profile of the adjacent roadway. The contractor shall verify the top of wall elevations shown on the Project Plans prior to fabricating rebar.

For soil boring logs and geotechnical information, refer to the Final Geotechnical Report (dated August 21, 2024) by Ethos Engineering, LLC.

All utilities shown in the Project Plans are provided for the contractor's general information only. The locations are approximate. It shall be the contractor's responsibility to determine and coordinate the actual location of utilities in the vicinity of wall construction. Existing utility locations shown reflect the findings of the latest available mapping. Refer to existing condition plans for status of existing utilities. Refer to relevant design plans for new utility information. In some locations wall construction must be phased with utility construction. It shall be the contractor's responsibility to identify and coordinate construction in these locations.

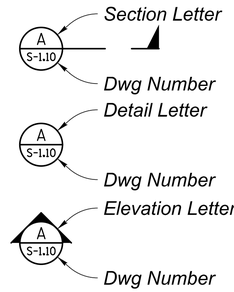
Finished grade elevations along the front face (FF) of the walls are provided for the contractor's use in locating wall drainage. The contractor shall verify the finished grade elevation prior to installing wall drainage.

See ADOT SD 7.01 for Structural Excavation & Structure Backfill pay limits.

ADOT STANDARD DRAWING LIST

Bridge Group SD Drawings - SD 7.01.

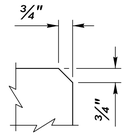
LEGEND:



NOTE:

A line (—) in place of the Drawing Number indicates that the SECTION or DETAIL is located on the same drawing that the SECTION or DETAIL is cut.

El = Elevation
TOW = Top of Wall
TOF = Top of Footing
EF = Each Face
C = Construction Joint
E = Expansion Joint
FF = Front Face



NOTE:

Chamfer all exposed corners unless otherwise noted. This note applicable to all Retaining Wall sheets.

CHAMFER DETAIL

NTS

APPROXIMATE WALL QUANTITIES

Wall No.	*Retaining Wall ADOT SD 7.01 (Case II) SF*	*Structural Excavation CY*	*Structure Backfill CY*	*Class "S" Concrete (f'c = 3000 psi) CY*	*Reinforcing Steel LBS*
R1	*271*	*50*	*25*	*20*	*1825*
R2	*53*	*10*	*5*	*5*	*430*
L1	*174*	*35*	*15*	*12*	*1075*
L2	*52*	*10*	*5*	*4*	*365*
Total	*550*	**105*	**50*	**41*	**3695*
Record Drawing Total					

** For information purposes only.*

Registered Professional Engineer — CERTIFICATE NO. 53092 — BENJAMIN C. ANSLEY — STATE OF ARIZONA — CIVIL

	NAME	DATE
DESIGN	B ANSLEY	06/25
DRAWN	T TALBERT	06/25
CHECKED	R STUART	06/25

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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 1122+
WASH BRIDGE
RETAINING WALL GENERAL NOTES & QUANTITIES

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	29	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. S-1.08

TRACS NO. T0414 01C

____ OF ____

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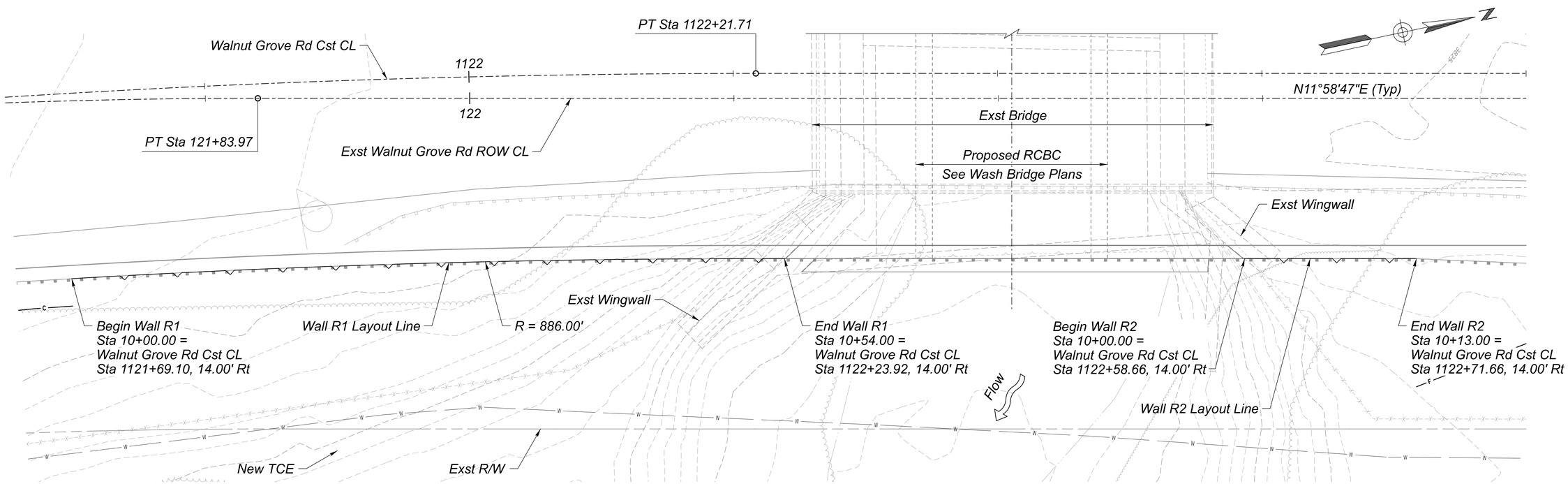
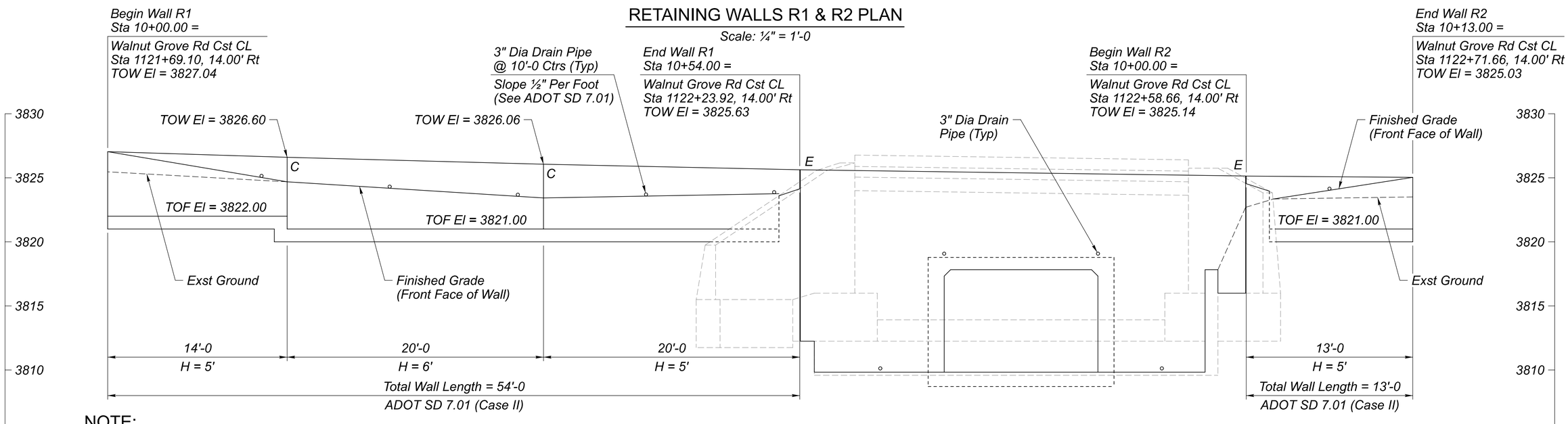


RETAINING WALLS R1 & R2 PLAN

Scale: ¼" = 1'-0



NOTE:

See Wall Details On Dwg S-1.11 for connection of retaining wall at existing wingwalls.

RETAINING WALLS R1 & R2 ELEVATION

Scale: ¼" = 1'-0

Registered Professional Engineer
CERTIFICATE NO.
53092
BENJAMIN C. ANSLEY
State of Arizona
10/31/2025

	NAME	DATE
DESIGN	B ANSLEY	06/25
DRAWN	T TALBERT	06/25
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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 1122+
WASH BRIDGE
WALLS R1 & R2 PLAN & ELEVATION

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	30	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. S-1.09

TRACS NO. T0414 01C

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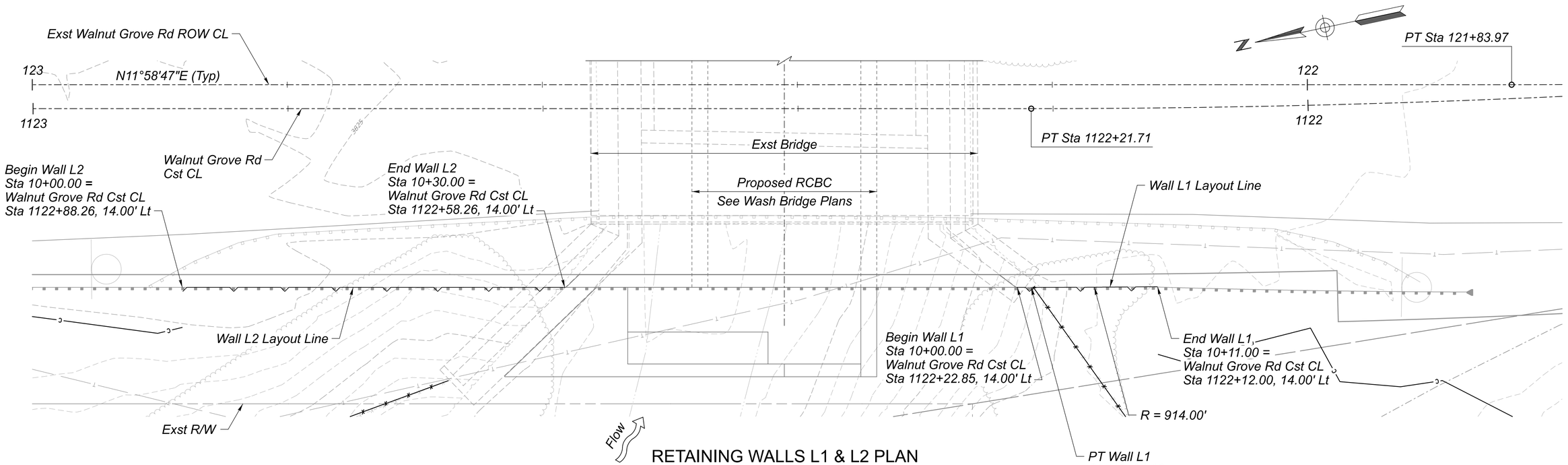
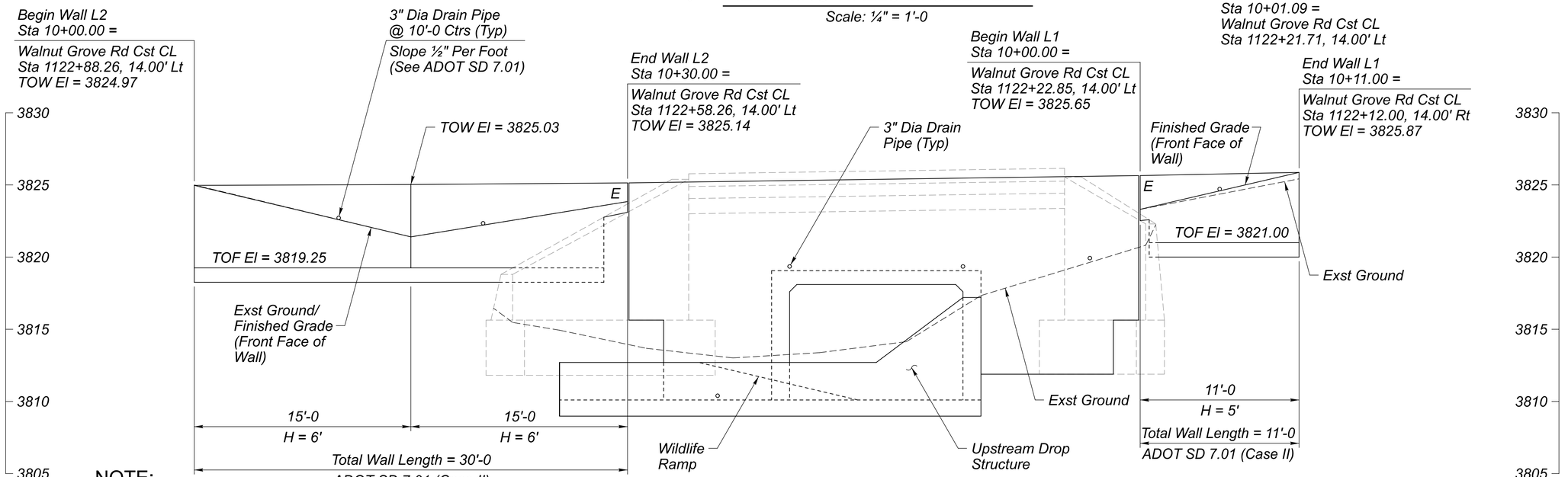


RETAINING WALLS L1 & L2 PLAN

Scale: ¼" = 1'-0



RETAINING WALLS L1 & L2 ELEVATION

Scale: ¼" = 1'-0

NOTE:

See Wall Details On Dwg S-1.11 for connection of retaining wall at existing wingwalls.

Registered Professional Engineer (Civil) CERTIFICATE No. 53092 BENJAMIN C. ANSLEY

	NAME	DATE
DESIGN	B ANSLEY	06/25
DRAWN	T TALBERT	06/25
CHECKED	R STUART	06/25

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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 1122+
WASH BRIDGE
WALLS L1 & L2 PLAN & ELEVATION

ROUTE	MILEPOST	STRUCTURE NO.
0	0.00	8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	31	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. S-1.10

TRACS NO. T0414 01C

____ OF ____

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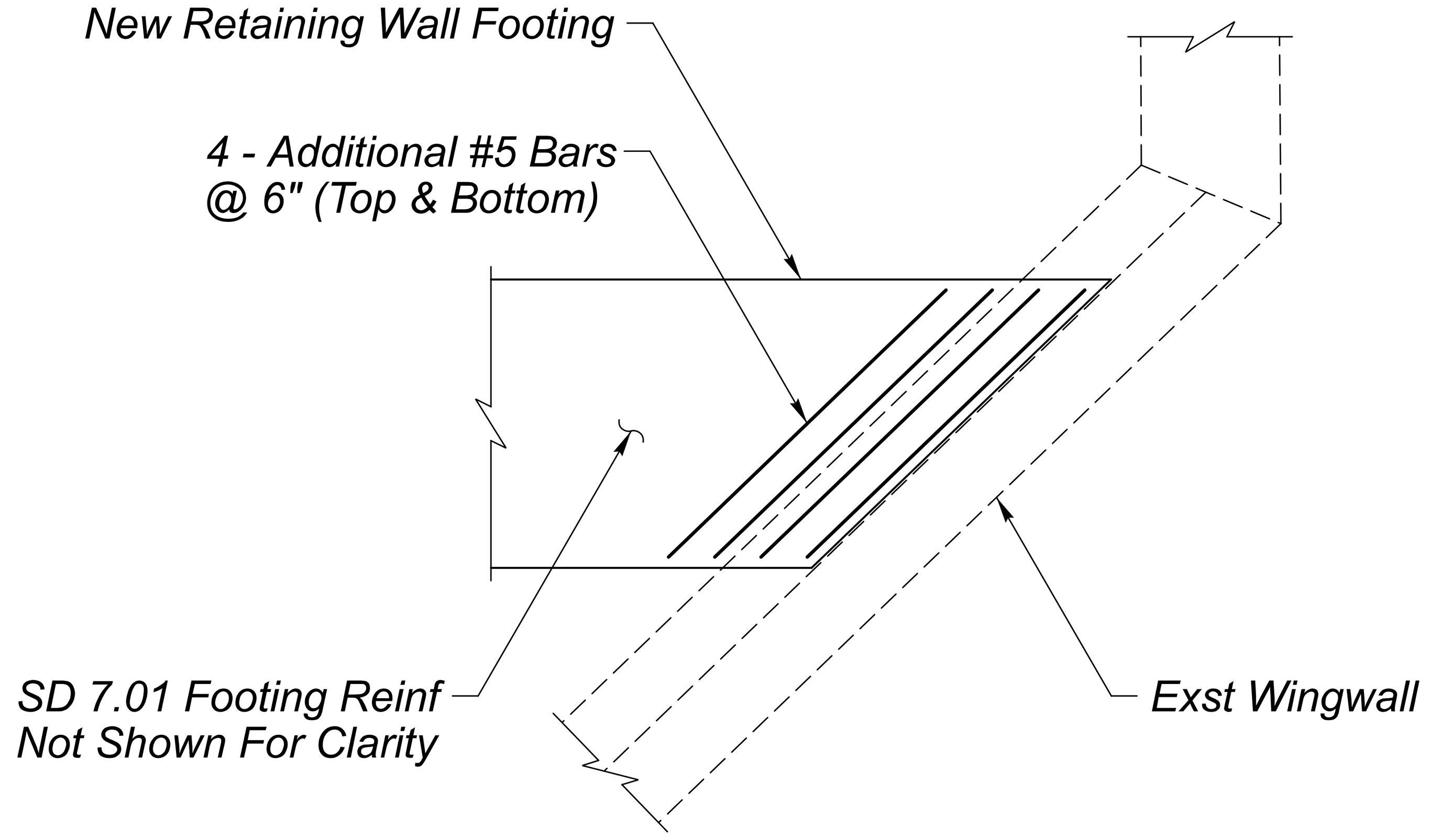
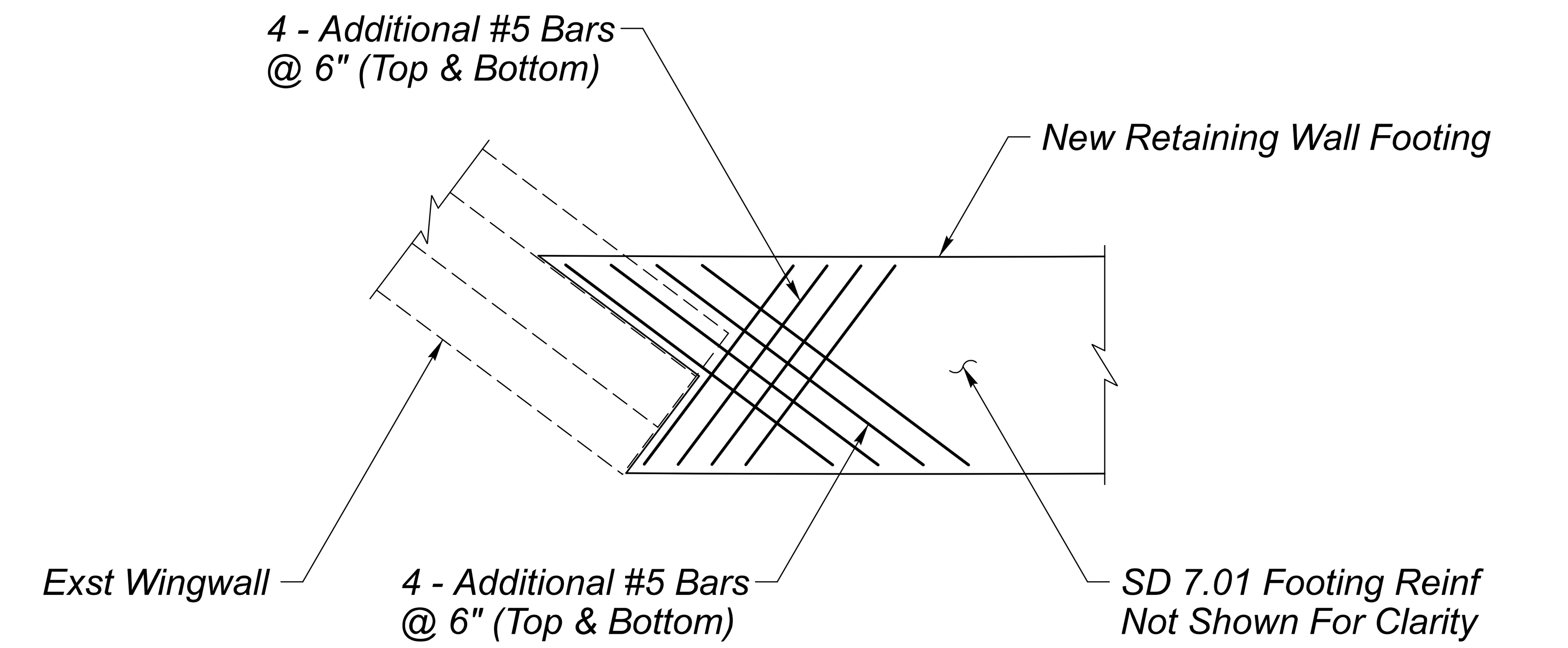


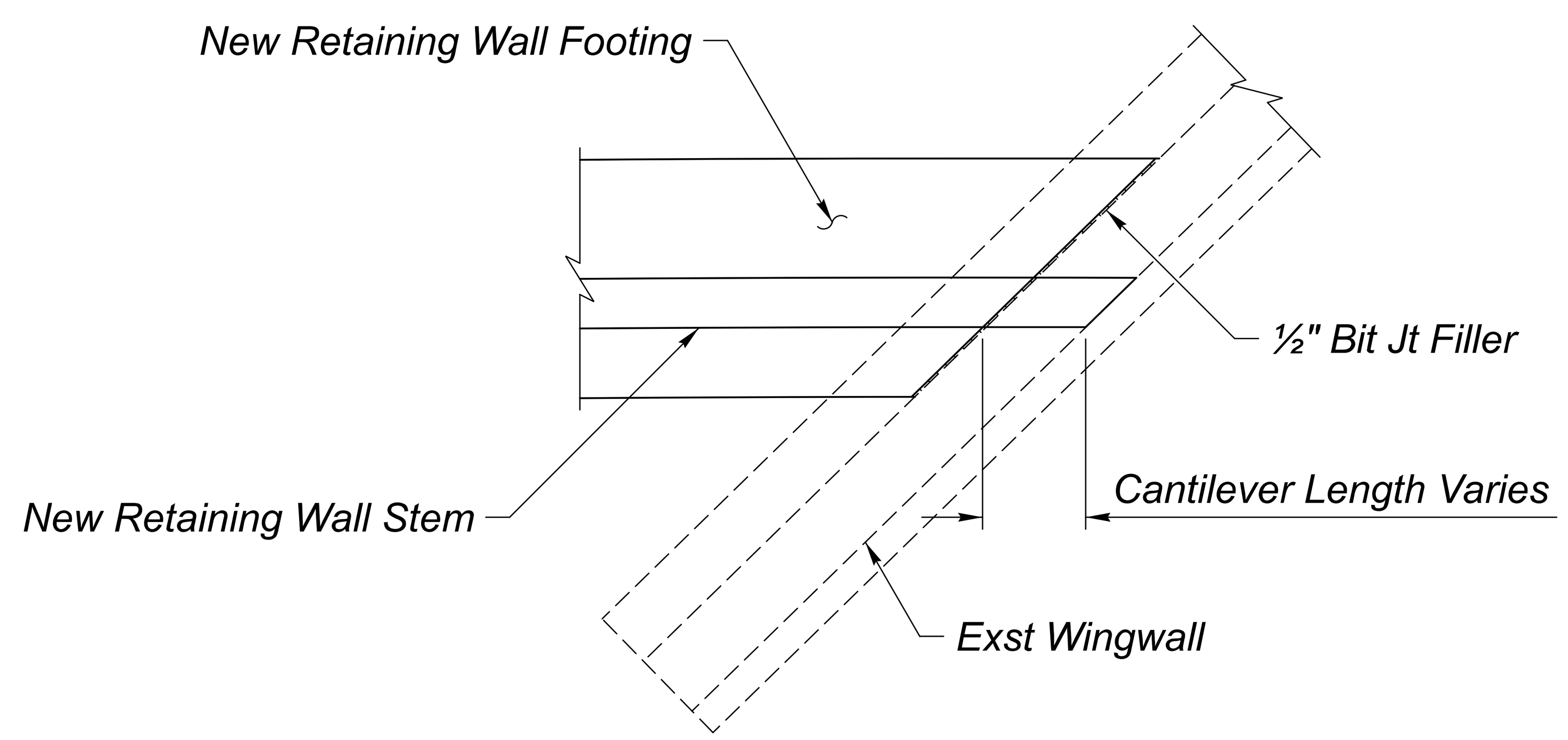
TYPICAL NORTHWEST & SOUTHEAST
WALL FOOTING DETAIL AT EXISTING WINGWALL

Scale: ⅜" = 1'-0

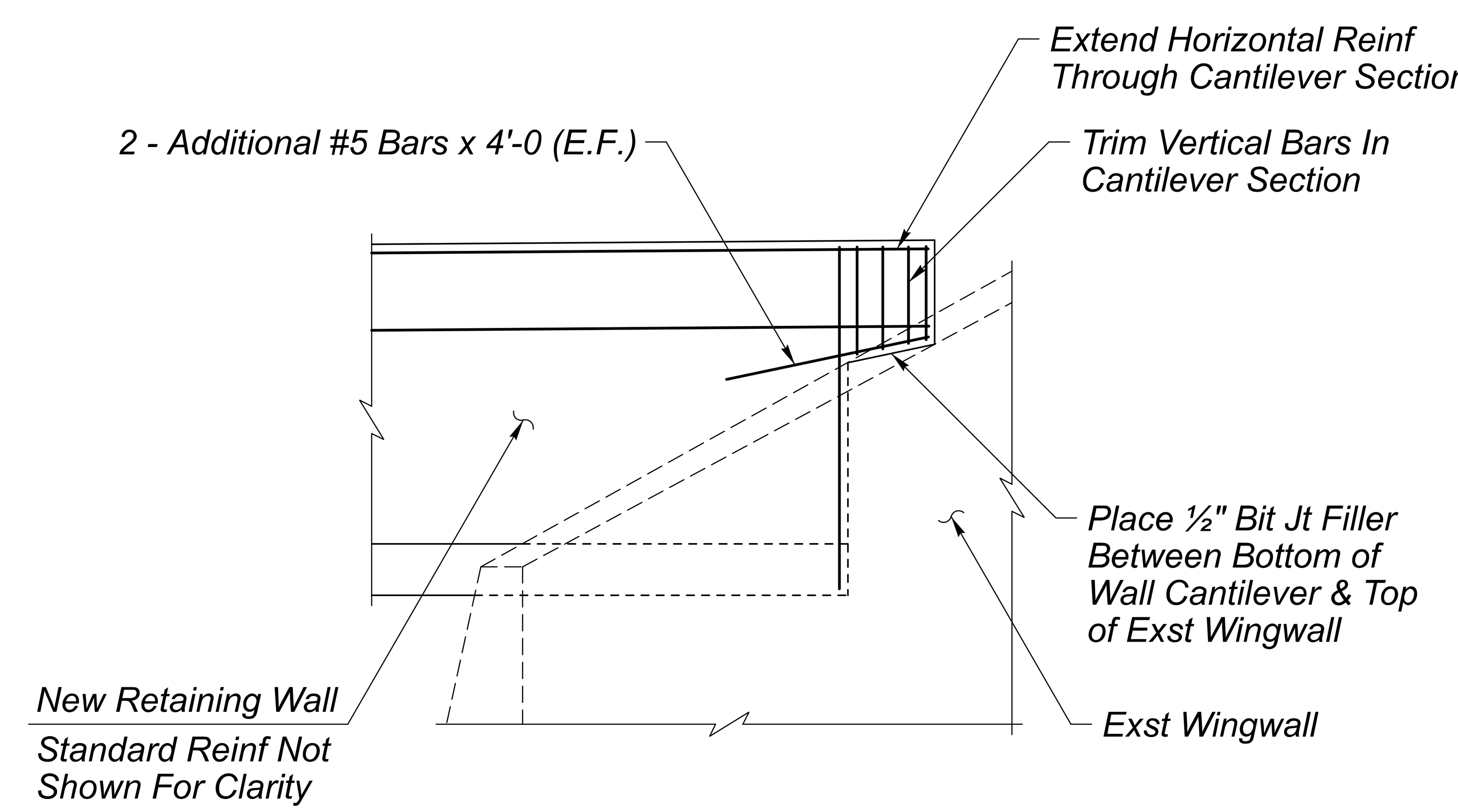


TYPICAL NORTHEAST & SOUTHWEST
WALL FOOTING DETAIL AT EXISTING WINGWALL

Scale: ⅜" = 1'-0



PLAN



ELEVATION

WALL STEM CANTILEVER DETAIL

Scale: ⅜" = 1'-0

Registered Professional Engineer (Civil) Certificate No. 53092 BENJAMIN C. ANSLEY, Date Signed 06/13/2025, Arizona, U.S.A.

	NAME	DATE
DESIGN	B ANSLEY	06/25
DRAWN	T TALBERT	06/25
CHECKED	R STUART	06/25

TRANSPORTATION
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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 1122+
WASH BRIDGE
RETAINING WALL DETAILS

ROUTE 0
MILEPOST 0.00
STRUCTURE NO. 8229

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	32	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

DWG No. S-1.11

TRACS NO. T0414 01C

____ OF ____

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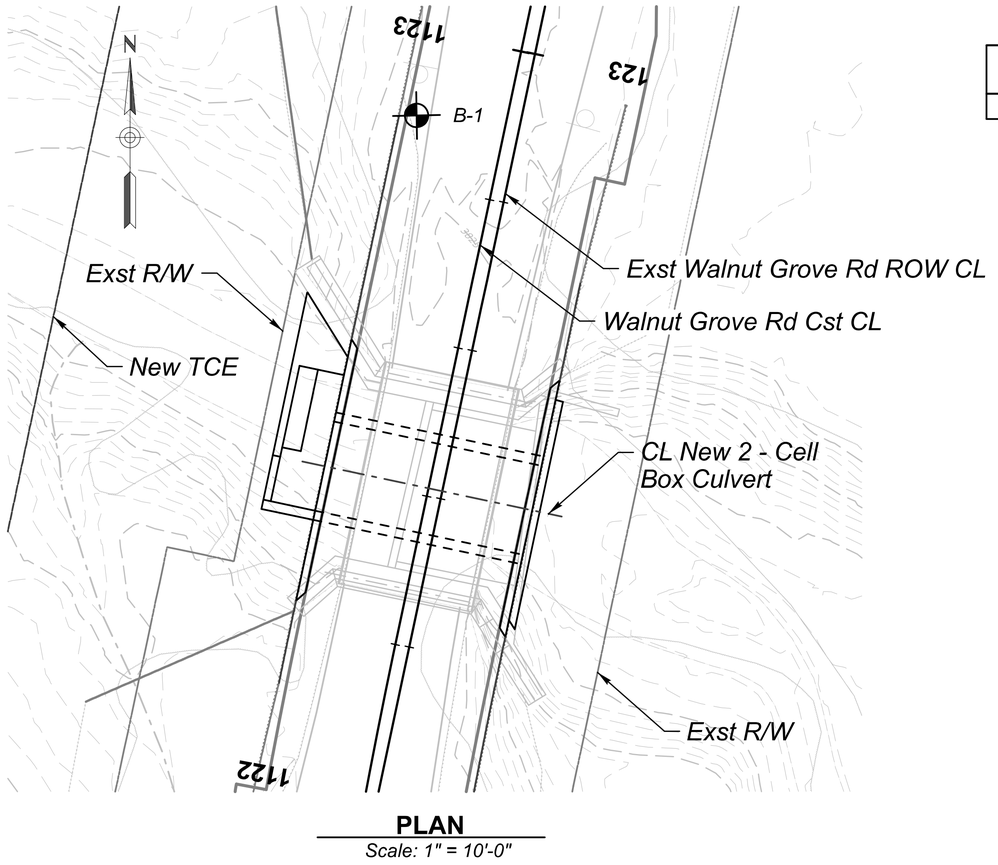

PLAN

Scale: 1" = 10'-0"

Boring	Depth	Lat / Long
B-1	30.0 ft	34.3191, -112.57148

LEGEND:

Boring Location & ID

LOG OF BORING B-1

ethos ENGINEERING, LLC.

Wash Bridge
Soil Boring: B-1

Client Name:	AECOM Technical Services	Project Address:	Yavapai County	Project No:	2023099
Date Started:	06/06/2024	Date Completed:	06/06/2024	Hole Depth:	30'
Station/Offset:	- / - -	Surface Elevation:	3824'	Lat/Long:	34.3191, -112.57148
Contractor:	ACS	Operator:	Noel	Method:	Auger
Rig Type:	CME-75 / Blue 237727	Hammer Type:	Auto	Hammer Efficiency:	82%
Logged By:	K. Baker	Reviewed By:	J. Huston	Water Level At Time Of Drilling:	N/A

Elevation (ft)	Depth (ft)	Graphic Log	Soil Description and Remarks	Samples: Bulk	Samples: Driven	Samples: Blow Counts/6"	Lab Results: Moisture Content (%)	Lab Results: Dry Density (PCF)	Lab Results: Atterberg Limits (LL-PI-#4)	Lab Results: Fines (%)
3820	0		**SILTY SAND WITH GRAVEL** (SM), considerable predominantly fine subrounded gravel, fine to coarse sand, nonplastic, brown, slightly moist, loose to medium dense		●	7-12	4.1	111	NP	21
	5				●	4-3				
3815					☒	4-6-9 (15)				
	10		11.0							
3810			**SILTY SAND** (SM), trace to some fine to coarse subrounded gravel, predominantly fine sand, nonplastic, brown, slightly moist, medium dense		☒	5-6-7 (13)	4.4		NP	22
	15									
3805					☒	13-12-10 (22)				
	20									
3800					☒	6-8-9 (17)				
	25									
3795					☒	7-8-11 (19)				
	30		30.5							

Drilling stopped at 29'. Sampler stopped at 30'6". Backfilled with cuttings.

NOTES:

1. *General soil descriptions and indicated boundaries are based on engineering interpretation of available subsurface information and associated laboratory testing by the geotechnical engineer and may not reflect actual variations in the subsurface conditions between borings and samples. The location of contacts between strata indicated on the logs is to be considered approximate, and changes between material types may be gradual rather than abrupt. Classification of soil materials is in general accordance with ASTM D 2488 and is based on field observation unless accompanied by laboratory test results presented in the Geotechnical Exploration Report.*
2. *The observed water levels and/or subsurface water conditions indicated on the boring logs are as recorded at the time of the field exploration. These water levels and/or moisture conditions may vary significantly with time according to the prevailing climate, rainfall or other factors and are otherwise dependent upon the duration of and methods used in the exploration program.*
3. *Sound engineering judgment was exercised in preparing the subsurface information presented on these sheets. This information was prepared and is intended for design and estimate purposes. Its presentation on the plans or elsewhere is for the purpose of providing intended users with access to the same information as the State and its designers. This subsurface information interpretation is presented in good faith and is not intended as a substitute for personal investigation, independent interpretations or judgment of the contractor or subcontractor.*
4. *Excavations may encounter caving sands with cobbles and possible small boulders. The contractor shall be prepared to deal with such conditions.*
5. *A 140-lb hammer, 30-inch free-fall, was used to drive the 2-inch O.D. Standard Penetration Test (SPT) split-spoon sampler (ASTM D 1586) or a 3-inch O.D. Modified California Split Barrel sampler lined with 2.42-inch I.D. brass rings (ASTM D3550).*
6. *For further subsurface information, refer to the Geotechnical Exploration Report for this project. This Report is available online at ADOT Contracts and Specifications.*
7. *All Geotechnical reports prepared for this project shall be considered by the contractor in developing bid documents.*

Registered Professional Engineer (Civil) CERTIFICATE NO. 47791 JESSE R HUSTON Date Signed 06/13/2025 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	J HUSTON	06/25
DRAWN	H MILLS	06/25
CHECKED	J HUSTON	06/25

ethos ENGINEERING, LLC. 9180 S Kyrene Rd Suite #104 Tempe, AZ 85284

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 122+
WASH BRIDGE
FOUNDATION DATA SHEET

ROUTE 0
MILEPOST 0.00
STRUCTURE NO. 8229

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 YV YYV	YYV-0(212)T	33	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

TRACS NO. T0414 01C

DWG No. SF-01.01

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EROSION CONTROL TYPE INSTALLATION & QUANTITY

LOCATION	20" Sediment Wattle (LF)		Rock Protection Gradation 'C' (CY)		Curb Inlet Protection (LF)		Rip Rap Lined Channel Gradation 'C' (CY)		Bridge Abutment Protection Gradation 'B' (CY)		9" Sediment Wattle Slope Protection (LF)		Construction Entrance (SY) 197 SY Each		Erosion Control Seeding (Type H-I) (AC)	QUANTITIES								REMARKS
	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right		20" Sediment Log Check Dam (LF)	Rock Protection (CY) Gradation 'C'	Curb Inlet Protection (LF)	Rip Rap Lined Channel (CY) Gradation 'C'	Bridge Abutment Protection (CY) Gradation 'B'	9" Sediment Wattle Slope Protection (LF)	Construction Entrance (SY)	Erosion Control Seeding (Type H-I) (AC)	
Walnut Grove Rd	230	192									182	38			1	422					220		1	
Access Rd													197									197		
Construction Staging Area													197									197		
	230	192									182	38	394		1	422					220	394	1	

CD = Check Dam
RP = Rock Protection @ Headwalls
CI = Curb Inlet Protection
RR = Rip Rap Lined Channel
BP = Bridge Protection
SF = Silt Fence
CE = Construction Entrance

CD / E1 Reference letters 'CD" correspond to the type of installation. 'E1' corresponds to the plan detail number.

NOTES:
1. The placement of all Erosion Control Devices listed above may be subject to change and may be adjusted by the Engineer.

2. Engineer is responsible to verify the contractor has sufficient protective measures in place to contain all storm water runoff sediment within project limits and protect all disturbed slopes from erosion.

3. The Contractor shall monitor/maintain all "Control Measures" during any shutdown period.

Registered Professional Engineer (Civil) 26609 DALE WIGGINS Date Signed 6/25/25 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	N KING	06/25
DRAWN	M CARILLO	06/25
CHECKED	D WIGGINS	06/25

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

EROSION CONTROL SUMMARY

ROUTE	STRUCTURE NO.
0	8229
MILEPOST 0.00	

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 YV YYV	YYV-0(212)T	34	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

TRACS NO. T0414 01C

DWG No. EC-1.01

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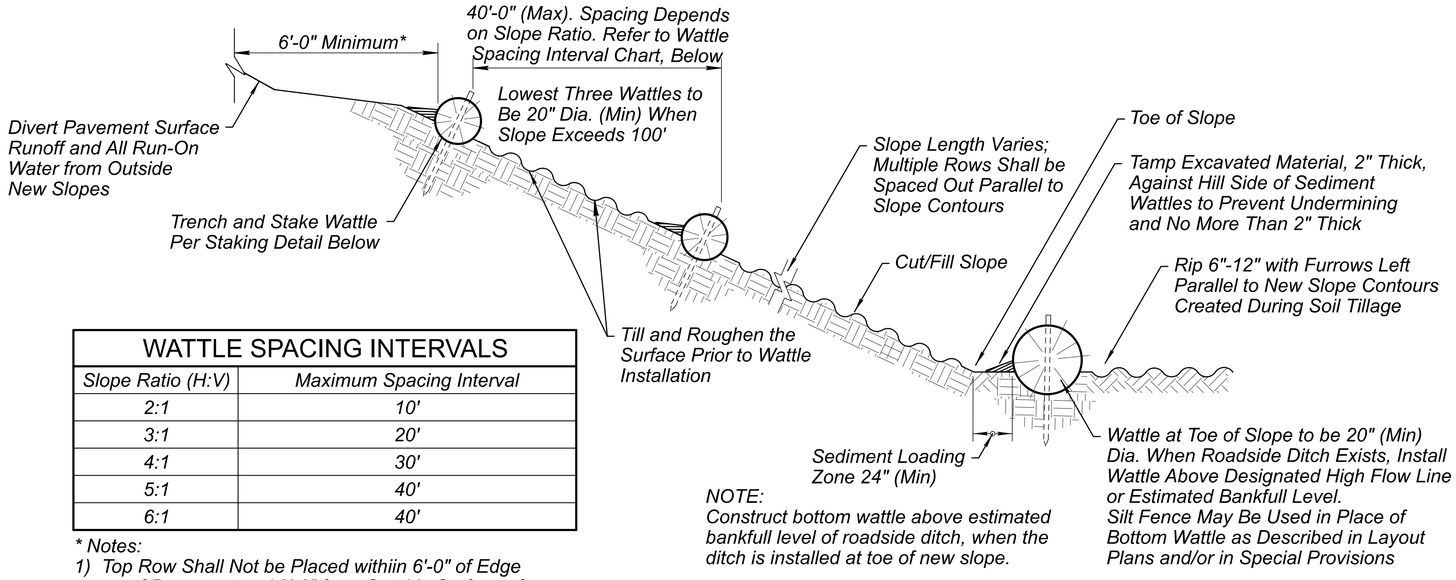


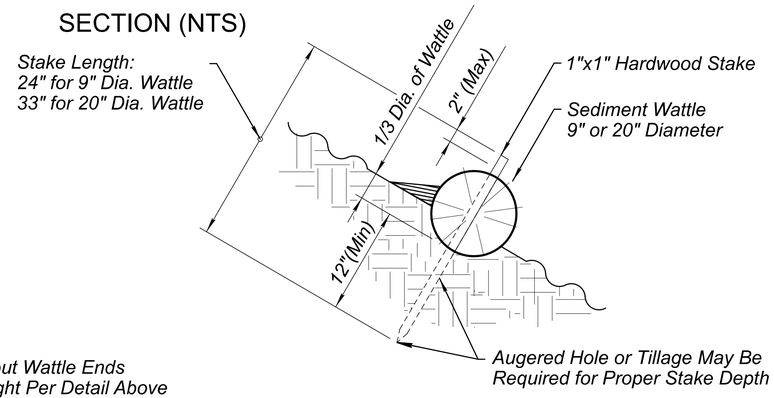
WATTLE SPACING INTERVALS	
Slope Ratio (H:V)	*Maximum Spacing Interval*
2:1	10'
3:1	20'
4:1	30'
5:1	40'
6:1	40'

** Notes:*

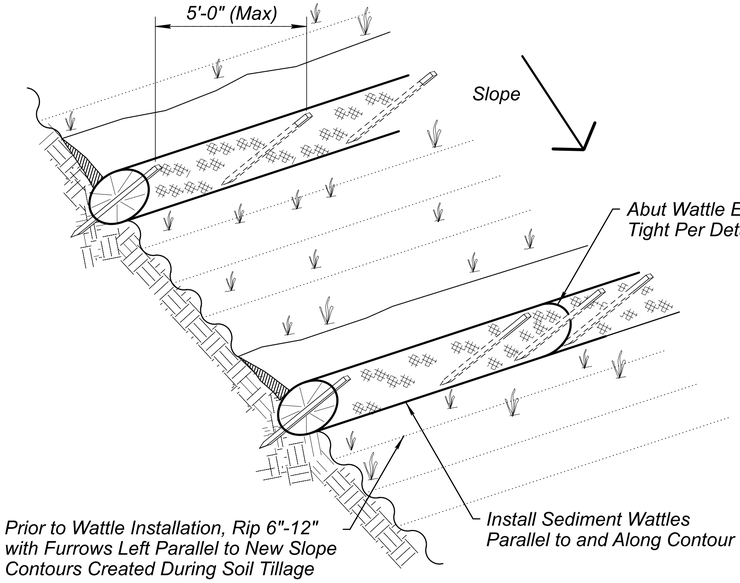
1) *Top Row Shall Not be Placed withiin 6'-0" of Edge of Pavement and 9'-0" from Outside Surface of Barrier.*
2) *For erosive soils, place rows of wattles closer together.*
3) *For soils with low erosive potential, place rows of wattles further apart.*

NOTE:
Construct bottom wattle above estimated bankfull level of roadside ditch, when the ditch is installed at toe of new slope.

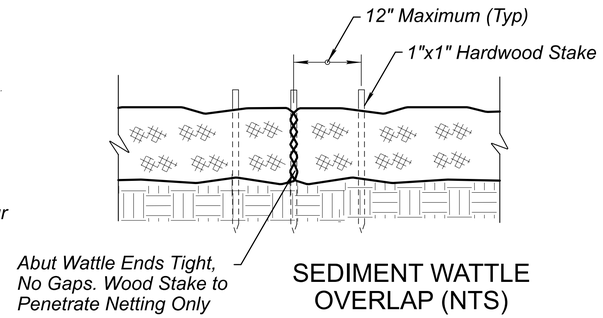
SECTION (NTS)



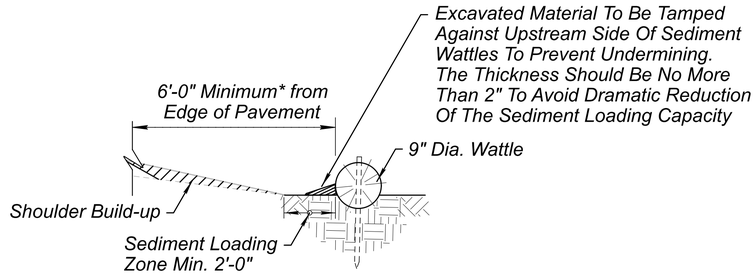
SEDIMENT WATTLE STAKING DETAIL (NTS)



SEDIMENT WATTLE LAYOUT (NTS)



SEDIMENT WATTLE OVERLAP (NTS)



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 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.*

DETAIL ES1

SEDIMENT WATTLE

	NAME	DATE
DESIGN	N KING	06/25
DRAWN	M CARILLO	06/25
CHECKED	D WIGGINS	06/25

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ROADWAY DESIGN SERVICES

DETAIL SHEET
DETAIL ES1

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
0	ARIZ.	0000 YV YYV	YYV-0(212)T	35	36	
MILEPOST 0.00	F.H.W.A. Arizona Division					
STRUCTURE NO. 8229	LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)					DWG No. EC-1.02
	TRACS NO. T0414 01C					____ OF____

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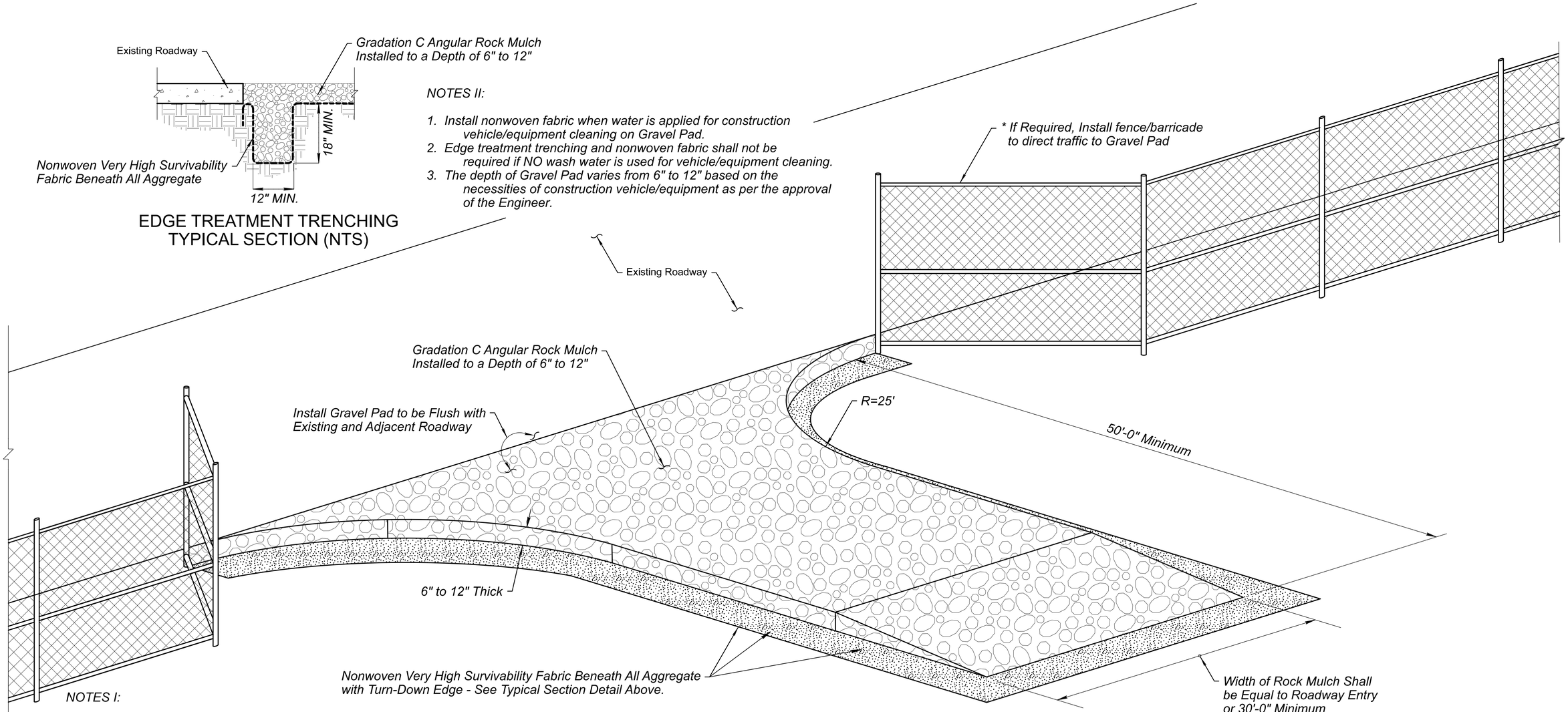
EDGE TREATMENT TRENCHING
TYPICAL SECTION (NTS)

NOTES II:

1. *Install nonwoven fabric when water is applied for construction vehicle/equipment cleaning on Gravel Pad.*
2. *Edge treatment trenching and nonwoven fabric shall not be required if NO wash water is used for vehicle/equipment cleaning.*
3. *The depth of Gravel Pad varies from 6" to 12" based on the necessities of construction vehicle/equipment as per the approval of the Engineer.*



BIRD'S EYE VIEW (NTS)

NOTES I:

1. *Install Stabilized Construction Entrance/Exit Gravel Pad BMP for traffic entering or exiting a construction site where sedimentation, clay, silt or other pollutants can be tracked onto public roads and/or adjacent water bodies, as approved by the Engineer. It may also be applied for construction entrance/exit wind erosion/dust control, as approved by the Engineer.*
2. *Locate new Construction Entrance(s)/Exit(s) at appropriate project entrance/exit points as determined in field with the approval of the Engineer. Relocate Stabilized Construction Entrance/Exit Gravel Pad BMP as needed as project progresses. Replace Rock Mulch materials in drive paths when dirt or mud accumulates.*
3. *Nonwoven Very High Survivability Fabric shall conform to the standards of Sub-section 1014-4.04 of the Standard Specifications.*
4. *Rock Mulch materials shall be fractured/crushed rocks in angular shape and as defined in the Sub-section 810-2.03 of the Standard Specifications. Natural river-run materials, especially rounded natural river rocks are not acceptable.*
5. *Make field adjustments and corrections of Construction Entrance/Exit Gravel Pad BMP immediately if it is causing flooding and/or affecting roadway safety.*
6. *When paid separately, the Stabilized Construction Entrance/Exit Gravel Pad BMP's pay/bid item shall include all materials used for this BMP: all ground preparation, furnishing, installing, final removal, and disposal of this temporary BMP, as well as returning the area to an acceptable condition as approved by the Engineer.*
7. ** Fence/barricade pay/bid item shall not be included as a component of the Stabilized Construction Entrance/Exit Gravel Pad BMP pay/bid item.*
8. *Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.*

DETAIL ES2

STABILIZED CONSTRUCTION
ENTRANCE/EXIT GRAVEL PAD

	NAME	DATE
DESIGN	N KING	06/25
DRAWN	M CARILLO	06/25
CHECKED	D WIGGINS	06/25

Registered Professional Engineer — 26609 DALE WIGGINS — Date Signed 6/25/25 — ARIZONA, U.S.A.

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DETAIL SHEET
DETAIL ES2

ROUTE	0
MILEPOST	0.00
STRUCTURE NO.	8229

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 YV YYV	YYV-0(212)T	36	36	

LOCATION WASH BRIDGE AT WALNUT GROVE ROAD (#8229)

TRACS NO. T0414 01C

DWG No. EC-1.03

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