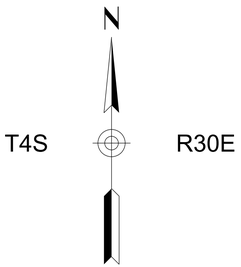
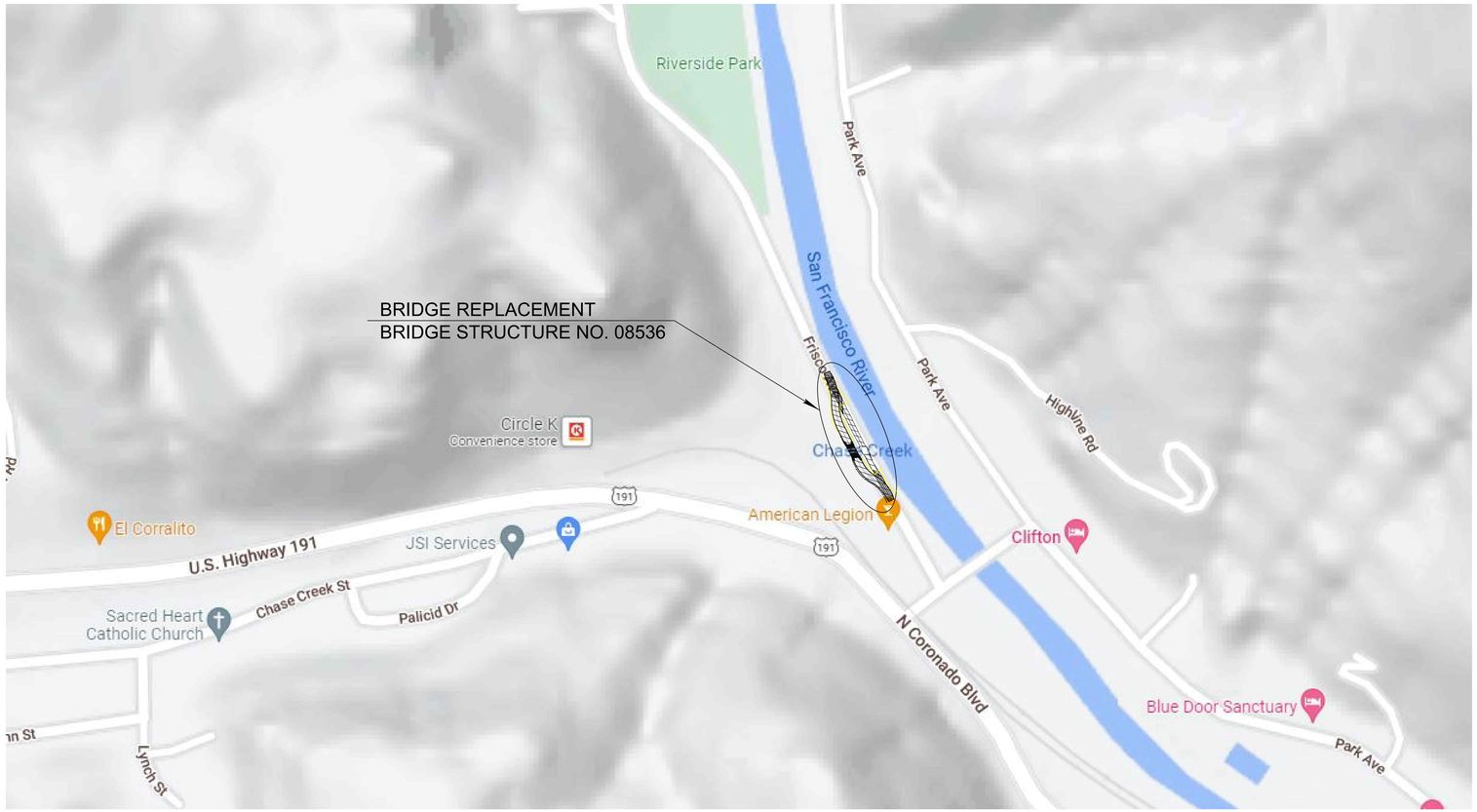
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION

PROJECT PLANS

TOWN OF CLIFTON
CHASE CREEK BRIDGE



GREENLEE 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

CHASE CREEK BRIDGE
PROJECT NO. 0000 GE CLF T0285 01C
FEDERAL AID NO. CLF-0(202)T

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
GREG BYERS, P.E., STATE ENGINEER

REC. DWGS. DATA	REC. DWG. DATE	OF

ADOT STANDARD DRAWINGS

CONSTRUCTION STANDARDS
EFFECTIVE AUGUST 2021

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
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
1/20	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	Jason Carota, P.E.	06/2023

PROJECT NO. 0000 GE CLF T0285 01C — 1A OF 37

RECORD DRAWING DATA — FEDERAL ID NO. CLF-0(202)T — REC. DWG. DATE — OF

ADOT STANDARD DRAWINGS

TRAFFIC SIGNING & MARKING STANDARDS
(SHEET 1 OF 2)
EFFECTIVE NOVEMBER 2022

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
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
8/20	M-19 SHT 1	RAISED PAVEMENT MARKER PLAN LEGEND
6/14	M-19 SHT 2	NON-REFLECTIVE RAISED PAVEMENT MARKER DETAILS
6/14	M-19 SHT 3	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS
6/14	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
3/22	M-19 SHT 10	CONTRAST LANE LINE FOR FREEWAY AND DIVIDED HIGHWAY
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	Jason Carota, P.E.	06/2023

PROJECT NO.			
0000 GE CLF T0285 01C	1B-1	OF	37

RECORD DRAWING DATA	FEDERAL ID NO.	REC. DWG. DATE		
	CLF-0(202)T		OF	

ADOT STANDARD DRAWINGS

TRAFFIC SIGNING & MARKING STANDARDS
(SHEET 2 OF 2)
EFFECTIVE NOVEMBER 2022

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	Jason Carota, P.E.	06/2023

PROJECT NO. 0000 GE CLF T0285 01C — 1B-2 OF 37

RECORD DRAWING DATA | FEDERAL ID NO. CLF-0(202)T | REC. DWG. DATE | OF

ADOT STANDARD DRAWINGS

STRUCTURE DETAIL DRAWINGS
EFFECTIVE MARCH 2023

DATE	STANDARD	SUBJECT TITLE
RAILINGS		
02/23	SD 1.10 (1 OF 2)	38" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
06/21	SD 1.10 (2 OF 2)	38" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
02/23	SD 1.11 (1 OF 1)	42" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
06/21	SD 1.11 (2 OF 2)	42" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
01/20	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		
12/07	SD 2.01	APPROACH SLAB DETAILS
12/07	SD 2.02	TYPE 1 ANCHOR SLAB DETAILS
12/07	SD 2.03	TYPE 2 ANCHOR SLAB DETAILS
09/09	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)
02/23	SD 6.20 (1 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - SINGLE BARREL NOTES & DIMENSIONS
02/23	SD 6.20 (2 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS 1
02/23	SD 6.20 (3 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - END SECTION & CONNECTION DETAILS
02/23	SD 6.20 (4 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS 2
02/23	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		
12/21	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		
11/22	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
11/22	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
11/22	SD 9.10 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - GENERAL PLAN
03/22	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
04/19	SD 9.10 (5 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - LIGHT SUPPORT DETAILS
11/22	SD 9.20 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - GENERAL PLAN
03/22	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
04/19	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	Jason Carota, P.E.	06/2023

PROJECT NO. 0000 GE CLF T0285 01C		1D OF 37	
RECORD DRAWING DATA	FEDERAL ID NO. CLF-0(202)T	REC. DWG. DATE	OF

MIDPOINT OF PROJECT

East Zone
State Plane Coordinates
X=749,000
Y=965,000

LENGTH OF PROJECT

Sta 100+80.00 to 105+80.00 = 500'
Gross and Net Length = 500' = 0.09 Miles

DESIGN DATA

AADT = 300
Posted Speed = 15 MPH
Design Speed = 20 MPH

INDEX OF SHEETS

GENERAL NOTES

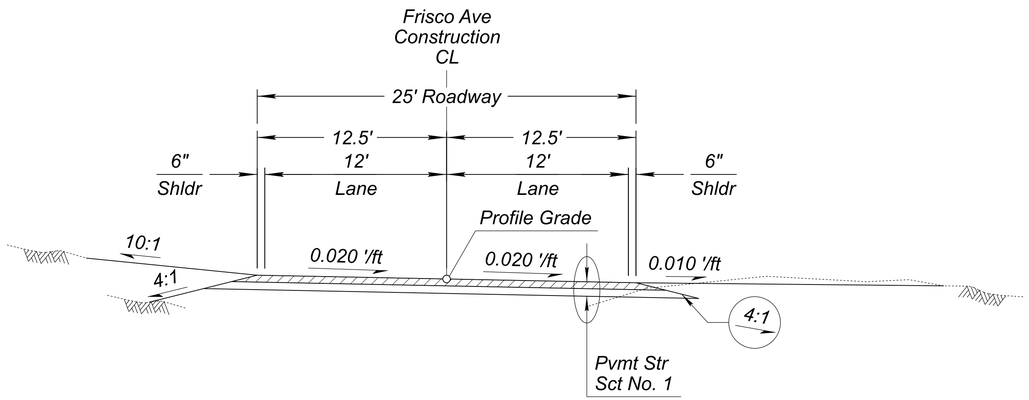
The roadway plans have been designed utilizing the 2012 Construction Standard Drawings (C-Series) and current revisions. Refer to the 1A sheet for a listing of current revision dates.

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

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 and Section 107.15 of the specifications.

The average project elevation is 3469'.

New Easement and TCE's are required.

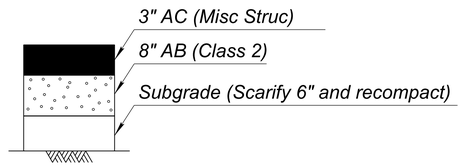


TYPICAL SECTION

Frisco Avenue
Sta 100+80.00 to 102+71.25
Sta 103+21.09 to 105+80.00

NOTE:

1. *Refer Bridge structure sheets for Bridge typical for Sta 102+71.25 to Sta 103+21.09*
2. *Refer to Signing and Pavement Marking sheet for varying lane widths and tapers.*



Total Thickness = 11"

SECTION NO. 1

EARTHWORK QUANTITIES

Roadway Excavation	*397 CY*
Shrink	*40 CY*
Structural Excavation	*110 CY*
Shrink	*11 CY*
Embankment (includes Ground Compaction)	*83 CY*
*Structure Backfill **	*60 CY*
Waste	*424 CY*

** For Informational purposes only and is assumed to be from a commercial source.*

EARTHWORK FACTORS

Station	*Shrink/Swell*	*Ground Compaction*
100+80.00 to 102+71.25	*10% Shrink*	*0.1'*
103+21.09 to 105+80.00	*10% Shrink*	*0.1'*

PAVEMENT STRUCTURAL SECTION

REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO.
24421
RUSSELL E.
MOORE
Date Signed 06/16/23
ARIZONA, U.S.A.
Expires 09/30/2024

Horrocks.

	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

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

DESIGN SHEET

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	2	37	

LOCATION CHASE CREEK BRIDGE

TRACS NO. T0285 01C

ADOT

DWG NO. G-01.01

____ OF ____

CONTROL POINTS				
Point	*Grid (N)*	*Grid (E)*	*Elevation*	*Description*
100	*749546.514*	*965470.393*	3470.03	*SET ½" REBAR W/ORANGE CAP*
101	*748886.332*	*961040.28*	3553.55	*FD BCF NGS W-73*
102	*749018.701*	*965832.677*	3470.24	*FD BCF NGS ACC 5 STAMPED 3468.571*
103	*749299.857*	*965642.227*	3468.377	*SET ½" REBAR W/ORANGE CAP*

GENERAL NOTES

The following parameters were set for the basis of this survey:

System: United States State Plane
Zone: Arizona East Zone
Horizontal Datum: NAD 83
Vertical Datum: NAVD 88
Units = International Feet (1 Feet = 0.3048 Meters exactly)

Coordinates are Grid coordinates

Benchmark:
Is NGS Control point designated as ACC 5, PID DT0353 in Clifton about 100 yards north of the post office, 66 yards southeast of the State Highway No. 71, 18 feet northwest of the centerline of the road across the bridge, set in the southwest concrete abutment of a steel bridge across the San Francisco River, having an elevation of 3470.24', NAVD 88 datum.

Registered Land Surveyor
Certificate No.
24421
RUSSELL E. MOORE
Date Signed 06/30/23
ARIZONA, U.S.A.
Expires 09/30/2024

	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

Horrocks.

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

SURVEY CONTROL SHEET

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	3	37	

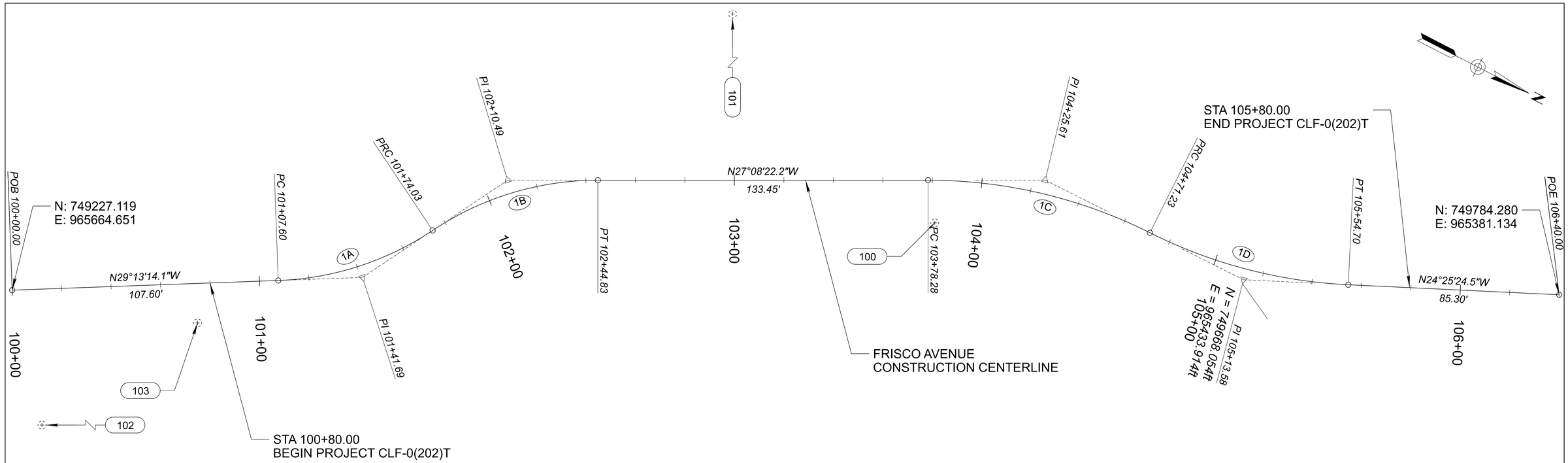
LOCATION CHASE CREEK BRIDGE

DWG NO. C-01.01

TRACS NO. T0285 01C

ADOT

____ OF ____



XXX — Project Control Point No.

Project Control Point

1A CURVE DATA

PI Sta 101+41.69 — N 749350.781, E 965595.481

Main Curve
Δ= 31° 43' 12.300" Lt
D= 47° 44' 47.682"
R= 120.00'
L= 66.43'
T= 34.09'
Ext=4.57'

1B CURVE DATA

PI Sta 102+10.49 — N 749385.049, E 965533.810

Main Curve
Δ= 33° 48' 04.185" Rt
D= 47° 44' 47.682"
R= 120.00'
L= 70.79
T= 36.46'
Ext= 5.18'

1C CURVE DATA

PI Sta 104+25.61 — N 749578.373, E 965434.713

Main Curve
Δ= 26° 37' 45.035" Rt
D= 28° 38' 52.609"
R= 200.00'
L= 92.95'
T= 47.33'
Ext= 5.38'

1D CURVE DATA

PI Sta 105+13.58 — N 749668.054, E 965433.914

Main Curve
Δ= 23° 54' 47.358" Lt
D= 28° 38' 52.609"
R= 200.00'
L= 83.47'
T= 42.35'
Ext= 4.34'

REGISTERED LAND SURVEYOR — CERTIFICATE NO. 24421 — RUSSELL E. MOORE — Date Signed 06/30/23 — ARIZONA, U.S.A. — Expires 09/30/2024

	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

Horrocks.

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

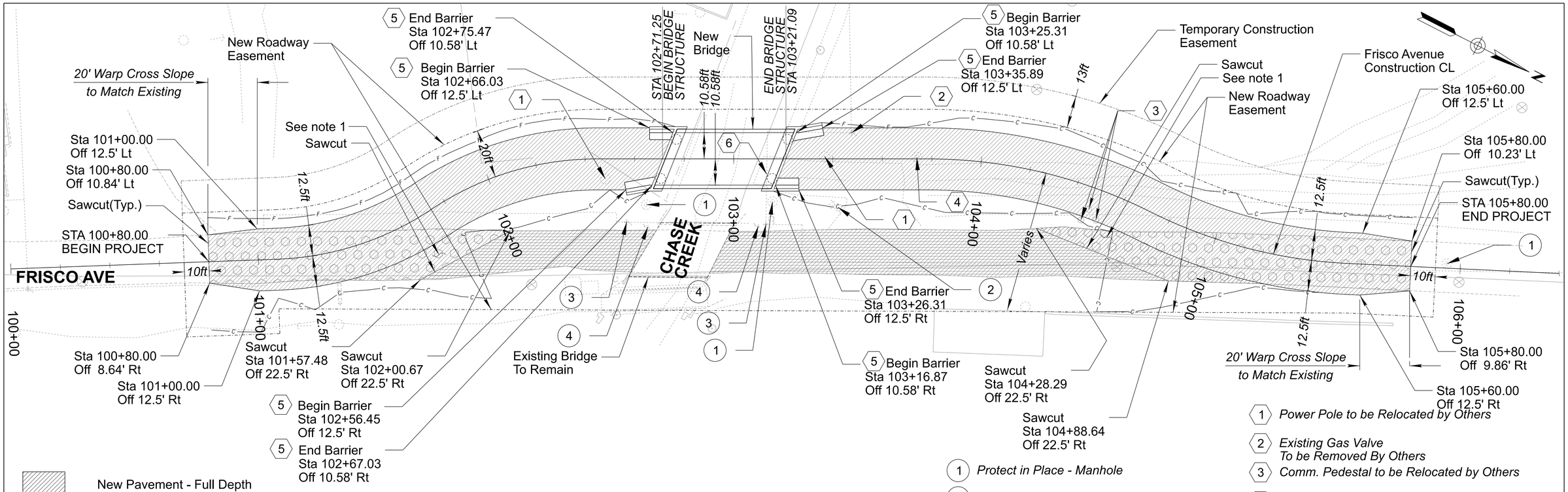
GEOMETRIC SHEET

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	4	37	

LOCATION: CHASE CREEK BRIDGE
TRACS NO. T0285 01C
DWG NO. C-01.02
ADOT
____ OF ____



New Pavement - Full Depth

Existing Pavement To Remain (See Note 2)

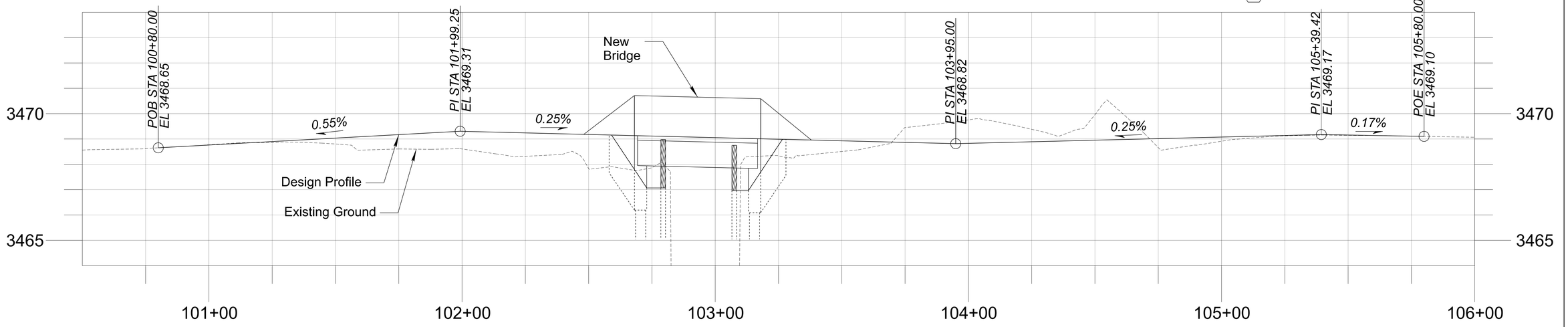
Remove Existing Pavement

NOTES:

1. *Sawcut and remove 10' of existing AC Beyond New Shoulder. Place AC per PSS#1 to Transition from New to Existing AC (Typical Each End)*
2. *Existing pavement that is to remain shall be replaced at no additional cost if damaged by contractor's operations.*

1. *Power Pole to be Relocated by Others*
2. *Existing Gas Valve To be Removed By Others*
3. *Comm. Pedestal to be Relocated by Others*
4. *Adjust Manhole Frame and Cover to Grade per ADOT Std Dtl C-18.10 "Top Of Manhole to drop by 3"(approx.) "*
5. *Install 38" Single Slope Bridge Concrete Barrier and Barrier Transition per Structural Detail Sheet S-1.17*
6. *Gas Line to be Relocated by Others*

1. *Protect in Place - Manhole*
2. *Protect in Place - Fire Hydrant*
3. *Protect in Place - Gas Valve*
4. *Protect in Place - Above Ground Gas Marker*



	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

Registered Professional Engineer — Certificate No. 24421 — RUSSELL E. MOORE — Date Signed 06/30/23 — ARIZONA, U.S.A. — Expires 09/30/2024

Horrocks.

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

PLAN & PROFILE SHEET

ROUTE

MILEPOST

STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	5	37	

LOCATION CHASE CREEK BRIDGE

TRACS NO. T0285 01C

ADOT

DWG NO. C-02.01

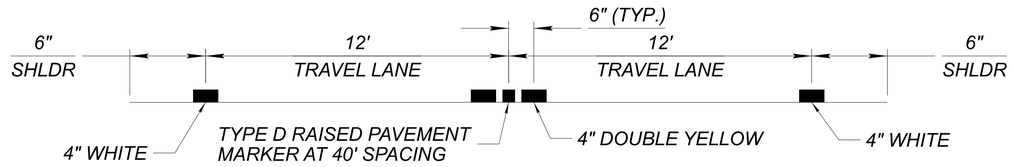
____ OF ____

SIGNING GENERAL NOTES

1. *All signs shall be in compliance with the Manual on Uniform Traffic Control Devices (MUTCD), Signing and Marking Standard Drawings, and the ADOT Traffic Engineering Manual of Approved Signs.*
2. *The sign locations and the post lengths are approximate. The contractor shall verify the sign locations and actual post lengths with the Engineer prior to installing signs.*
3. *Unless otherwise noted, the bottom of each sign shall be at least 7 feet away from the nearest edge of pavement and at least 7 feet above the ground surface under the sign.*
4. *Offsets for all signs shall be measured from the edge of the roadway to the nearest edge of the sign.*
5. *All new signs shall be fabricated of flat sheet aluminum as specified in Section 608 of the specifications.*
6. *The retroreflective sheeting on all new signs shall meet the requirements of ADOT Standard Specifications for Road and Bridge Construction (Section 1007).*
7. *All new signs shall be installed on new square tube posts with foundations as shown on ADOT Standard Drawings.*
8. *The Engineer may modify the signing plans.*
9. *The contractor shall remove existing signing where indicated on the plans.*

PAVEMENT MARKING GENERAL NOTES

1. *At the completion of the final pavement surface each day, center lines, lane lines, edge lines and stop bars shall be striped with application of waterborne marking.*
2. *All reflective raised pavement markers shall be pavement marking so that the reflective face of each marker is facing the direction of traffic and is perpendicular to the direction of traffic flow.*
3. *All reflective raised pavement markers shall have an abrasion-resistant coating on the face of the prismatic reflectors and shall conform to details M-19 of the ADOT Standard Drawings. They shall be installed with a bituminous adhesive which is on the ADOT Approved Products List.*
4. *Where raised pavement markers are placed along solid striping, the nearest edge of each marker shall be offset two inches from the nearest edge of the stripe.*
5. *The contractor shall clean the roadway surface to the satisfaction of the Engineer, by sweeping and air-jet blowing, immediately prior to the placement of all pavement markings. The roadway surface shall be dry and the air and pavement temperatures shall be minimum of 55° F and rising for the placement of thermoplastic striping.*
6. *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.*
7. *The pavement marking drawings are schematic only and not to scale.The contractor shall follow all dimensions and Detail A when installing pavement markings.*
8. *All delineators including new flexible delineators shall be installed on concrete foundation in accordance with ADOT Standard Drawings and as directed by the Engineer. All flexible delineators shall be on ADOT's Approved Products List.*



DETAIL A

PAVEMENT MARKING TYPICAL SECTION
FRISCO BRIDGE AVENUE
STA 100+80.00 TO STA 105+80.00

SIGNING QUANTITIES			
BID ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITIES
6070054	SIGN POST (PERFORATED) (2S)	L. FT.	24
6070060	FOUNDATION FOR SIGN POST (CONCRETE)	EACH	2
6080005	WARNING , MARKER OR REGULATORY SIGN PANEL	SQ. FT.	13
7030024	MULTI-DIRECTIONAL DELINEATOR (360 DEGREE) (FLEXIBLE)	EACH	27
7030080	OBJECT MARKERS (M-23) (TYPE 3)	EACH	4
7030084	OBJECT MARKERS (M-23) (TYPE 1 OR 4)	EACH	6

PAVEMENT MARKING QUANTITIES			
BID ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITIES
7060015	PAVEMENT MARKER, RAISED, TYPE D	EACH	12
7080201	WATERBORNE - TYPE 1 PAVEMENT MARKING (PAINTED)(WHITE)	L. FT.	1764
7080202	WATERBORNE - TYPE 1 PAVEMENT MARKING (PAINTED)(YELLOW)	L. FT.	2000

CERTIFICATE NO. 24421 RUSSELL E. MOORE Date Signed 06/30/23 REGISTERED PROFESSIONAL ENGINEER ARIZONA, U.S.A. Expires 09/30/2024

	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

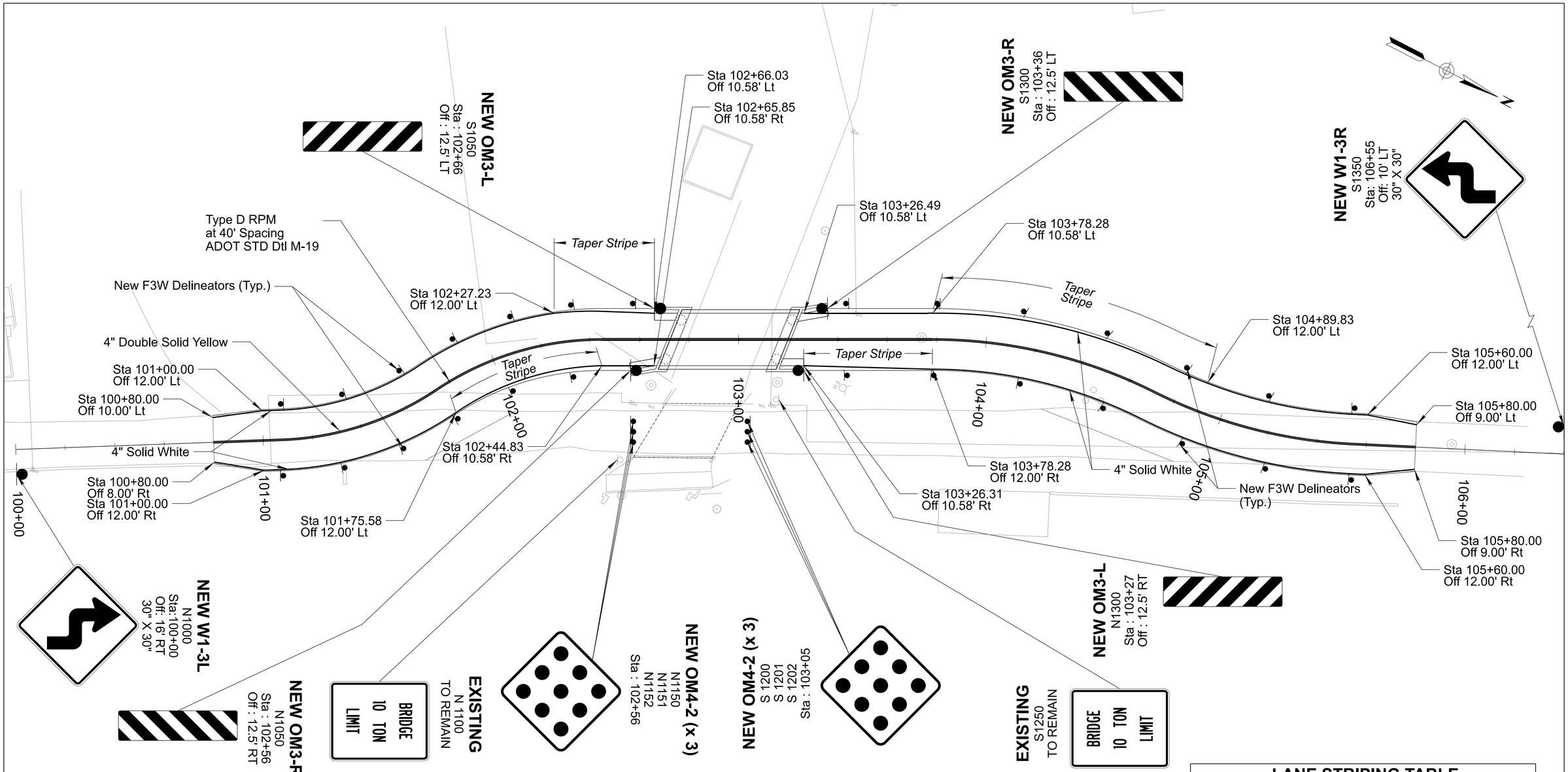
Horrocks.

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

SIGNING & PAVEMENT MARKING GENERAL NOTES & QUANTITIES

ROUTE		STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST	F.H.W.A. Arizona Division	ARIZ.	0000 GE CLF	CLF-0(202)T	6	37	
STRUCTURE NO. 08536	LOCATION CHASE CREEK BRIDGE						DWG NO. T-01.01
	TRACS NO. T0285 01C						____ OF ____

ADOT



LANE STRIPING TABLE

Station	Side	Lane Width
102+27.23 to 102+66.03	Lt	12' To 10.58'
102+66.03 to 103+78.28	Lt	10.58'
103+78.28 to 104+89.83	Lt	10.58' To 12'
101+75.58 to 102+44.83	Rt	12' To 10.58'
102+44.83 to 103+26.31	Rt	10.58'
103+26.31 to 103+78.28	Rt	10.58' To 12'

LEGEND:

- DELINEATORS PER ADOT DETAIL M-26 (SOUTH OF BRIDGE - 25' SPACING AT 2' OFFSET FROM SHOULDER)
  (NORTH OF BRIDGE - 35' SPACING AT 2' OFFSET FROM SHOULDER)
- SIGN POST

CERTIFICATE NO. 24421 RUSSELL E. MOORE Date Signed 06/16/23 REGISTERED PROFESSIONAL ENGINEER ARIZONA, U.S.A. Expires 09/30/2024

	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

Horrocks.

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

SIGNING AND PAVEMENT MARKING

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	7	37	

LOCATION CHASE CREEK BRIDGE

DWG NO. T-01.02

TRACS NO. T0285 01C

ADOT

____ OF ____

Sign Summary Sheet

Plan Sht No.	Sign Number	MOAS Sign Code	Work: New	Work: Existing: Replace Panel	Work: Existing: Relocate Panel	Work: Existing: Modify Legend	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: Min Sheeting Type	Panel: Bid Item Number	Ground Mounted: Foundations	Ground Mounted: Post: Type	Ground Mounted: Post: Total length (ft)	Ground Mounted: New Slipbases	Ground Mounted: Stringer: Type	Ground Mounted: Stringer: Total length (ft)	Overhead: Structure Type	Overhead: Number of Lights	Remarks
T-01.02	N1100	W1-3L	X						12	7	YL	Left Reverse Turn Symbol	30	30	6.3	RWM	9	6080005	1	2S	12						
T-01.02	N1050	OM3-R	X								YL	Type 3(1) R						7030080									
T-01.02	S1050	OM3-L	X								YL	Type 3(1) L						7030080									
T-01.02	N1150	OM4-2	X								RD	TYPE 4 OBJECT MARKER						7030084									IN FRONT OF EXISTING BRIDGE
T-01.02	N1151	OM4-2	X								RD	TYPE 4 OBJECT MARKER						7030084									IN FRONT OF EXISTING BRIDGE
T-01.02	N1152	OM4-2	X								RD	TYPE 4 OBJECT MARKER						7030084									IN FRONT OF EXISTING BRIDGE
T-01.02	S1300	OM3-R	X								YL	Type 3(1) R						7030080									
T-01.02	S1200	OM4-2	X								RD	TYPE 4 OBJECT MARKER						7030084									IN FRONT OF EXISTING BRIDGE
T-01.02	S1201	OM4-2	X								RD	TYPE 4 OBJECT MARKER						7030084									IN FRONT OF EXISTING BRIDGE
T-01.02	S1202	OM4-2	X								RD	TYPE 4 OBJECT MARKER						7030084									IN FRONT OF EXISTING BRIDGE
T-01.02	N1300	OM3-L	X								YL	Type 3(1) L						7030080									
T-01.02	S1350	W1-3R	X						12	7	YL	Right Reverse Turn Symbol	30	30	6.3	RWM	9	6080005	1	2S	12						
T-01.02	N1100	R4-9						X				BRIDGE 10 TON LIMIT															
T-01.02	S1250	R4-9						X				BRIDGE 10 TON LIMIT															

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.*

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

	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

Horrocks.

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

SIGN SUMMARY SHEET

ROUTE							
MILEPOST	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
STRUCTURE NO. 08536		ARIZ.	0000 GE CLF	CLF-0(202)T	8	37	
	LOCATION: CHASE CREEK BRIDGE						DWG NO. T-01.03
	TRACS NO. T0285 01C		ADOT				____ OF____

TRAFFIC CONTROL NOTES:

1. *Maintenance of Traffic Quantities & Tables and Traffic Control Plans represent a suggested method for traffic control during construction. The contractor may prepare another traffic control plan in accordance with the requirements of Section 701 and Subsection 104.04 of the specifications. Traffic Control Plans are subject to the approval of the Engineer before begining construction.*

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

3. *All existing signs in conflict with the construction signs shall be removed, relocated, or covered in place, as directed by the Engineer. The contractor shall store and reinstall items which have been removed or relocated in a manner approved by the Engineer, the cost being considered as included in the price of contract items.*

4. *All construction signs shall have black letters/legends on an orange background, except as otherwise noted.*

5. *The retororeflective sheeting on all construction signs shall meet criteria established in Section 1007 of the Specifications.*

6. *All advance warning signs are to remain for the duration of the project and shall be mounted on embedded posts. All short-term signs used for individual activities may be installed on rigid or spring type sign posts. All signs on portable stands shall be mounted at least 1 foot above the pavement.*

7. *The nearest edge or corner of a sign shall be as far as practicable from the edge of the roadway .*

8. *Flags shall be mounted on top of all construction signs except the "END ROAD WORK THANK YOU" sign. Type "A" flashing warning lights will be required on all night-time construction signs except the "END ROAD WORK THANK YOU" sign.*

9. *Vertical panels shall be used for channelizing devices, unless directed by the Engineer to use Type II barricades.*

10. *The channelizing devices on tangents shall be at a maximum spacing of 40 feet on center. The channelizing devices for tapers shall be at a maximum spacing of 20 feet on center.*

11. *A Type "C" steady-burning yellow light shall be mounted on every barricade and vertical panels on tapers and along tangent sections during night-time activities.*

12. *Temporary traffic control devices for daily work activities shall be placed during the one hour period immediately prior to the work shift and removed during the one hour period immediately following the work shift unless otherwise directed by the Engineer.*

13. *When no closure is necessary but where there is construction alongside a roadway, the contractor shall place 36 inch x 36 inch "ROAD WORK AHEAD" signing as directed by the Engineer to alert the public to the construction activities.*

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

15. *The contractor shall place the changeable message boards two weeks prior to the start of construction to alert traffic of the upcoming road restrictions. The contractor shall position changeable message boards as directed by the Engineer. Cycle time and duration of the messages shall be such that the entire message can be read twice at operating speed from no further than 650 feet. The contractor shall locate the changeable message boards just off the paved roadway in compliance with the clear zone requirements or as directed by the Engineer. The Engineer will determine the messages on the changeable message boards to coincide with construction activities.*

16. *The contractor shall install a minimum of ten Type II barricades w/ Type "C" lights around the changeable message board.*

17. *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.*

18. *The contractor shall maintain traffic on paved surfaces at all times.*

19. *The contractor shall preserve all roadway signs, sign supports, object markers and milepost markers. The contractor shall replace any signs, sign supports, and markers damaged as a result of the construction at no additional cost to the Department.*

20. *Signing for double fines in work zones, when allowed by the Engineer, shall generally conform to Figure SA-12 of the 2019 ADOT Temporary Traffic Control Design Guidelines. Such signing shall only be in place during working periods when workers are present in accordance with the guidelines for signing for double fines in the work zones. The cost for covering or moving the signs before and after work periods is considered as included in the the price of contract items.*

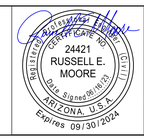
21. *All lane restrictions and roadway closures shall be coordinated with the Engineer.*

22. *Signing for shoulder closures for changeable message boards, shall generally conform to Figure SA-15 of the 2019 ADOT Temporary Traffic Control Design Guidelines.*

TRAFFIC CONTROL QUANTITIES

BID ITEM NO.	ITEM	UNIT	Activity 1 (14 Days)	Activity 2 (156 Days)	Activity 3 (39 Days)	Total*
7010005	MAINTENACE & PROTECTION OF TRAFFIC	L SUM				1
7016050	TRUCK MOUNTED ATTENUATOR	EA/DAY		2		2
7016067	CHANGEABLE MESSAGE BOARD (CONTRACTOR FURNISHED)	EA/DAY	28			28
7016075	FLAGGING SERVICES (CIVILIAN)	HOURS		20	10	30

** Durations are in calendar days.*



	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

Horrocks.

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

TRAFFIC CONTROL NOTES

ROUTE

MILEPOST

STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	9	37	

LOCATION CHASE CREEK BRIDGE

TRACS NO. T0285 01C

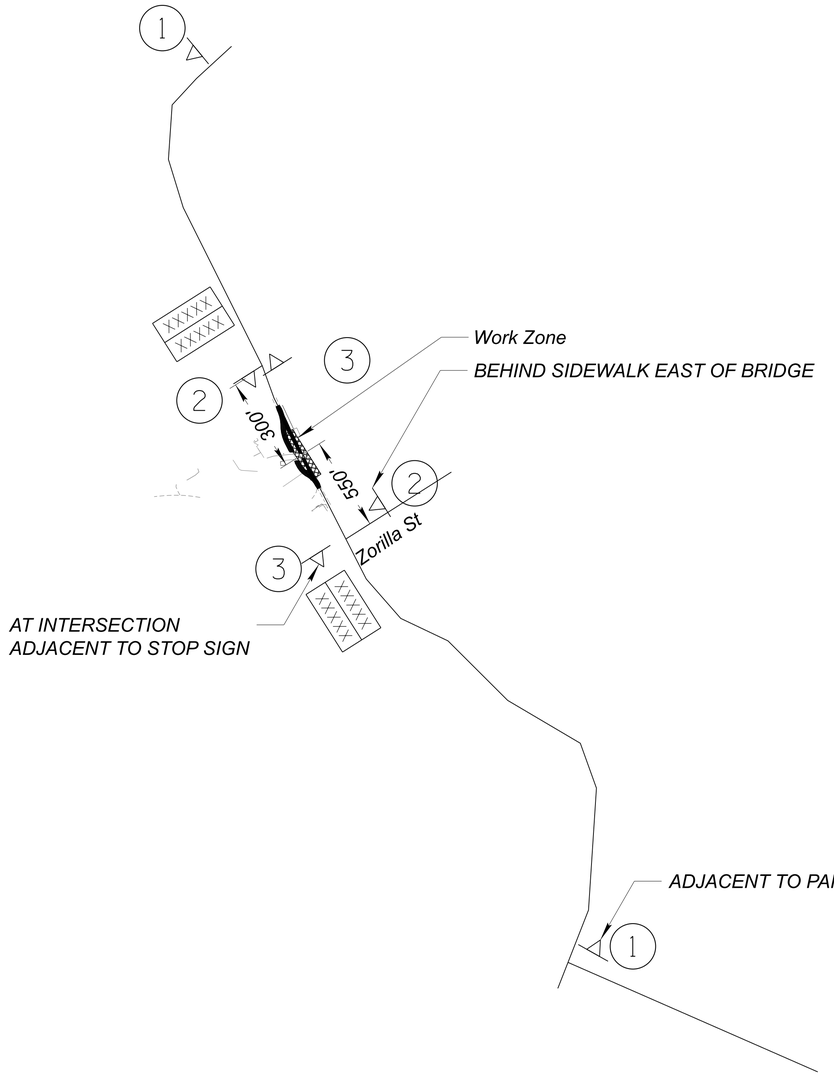
ADOT

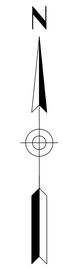
DWG NO. TC-02.00

____ OF ____

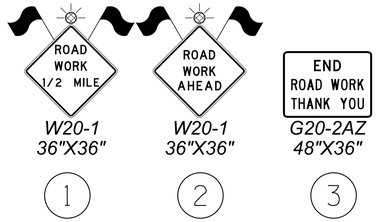
NOTES:

1. The contractor shall coordinate with the Engineer, about the use of changeable message boards.
2. Install changeable message boards on each approach to the work zone as directed by the Engineer.
3. Changeable message boards shall be installed 2 weeks prior to construction and removed once construction starts.





SIGN LEGEND:



W20-1 36"X36"	*W20-1 36"X36"*	*G20-2AZ 48"X36"*
1	2	3

SYMBOL LEGEND:

	Sign on Spring Stand
XXXXX XXXXX	*Changeable Message Board*
	Work Zone

DETAIL TC1

ADVANCE WARNING SIGNS
NOT TO SCALE

CERTIFICATE NO. 24421 RUSSELL E. MOORE Date Signed 06/16/23 ARIZONA, U.S.A. Expires 09/30/2024

	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

Horrocks.

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

PROJECT ADVANCE SIGNING

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division | STATE ARIZ. | PROJECT NO. 0000 GE CLF | FEDERAL ID NO. CLF-0(202)T | SHEET NO. 10 | TOTAL SHEETS 37 | RECORD DRAWING

LOCATION CHASE CREEK BRIDGE

DWG NO. TC-02.01

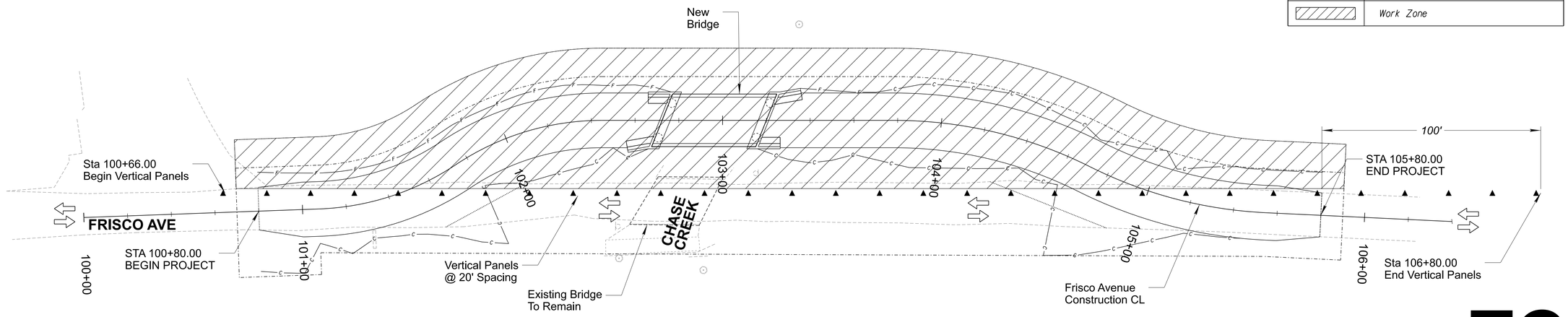
TRACS NO. T0285 01C

ADOT

____ OF ____

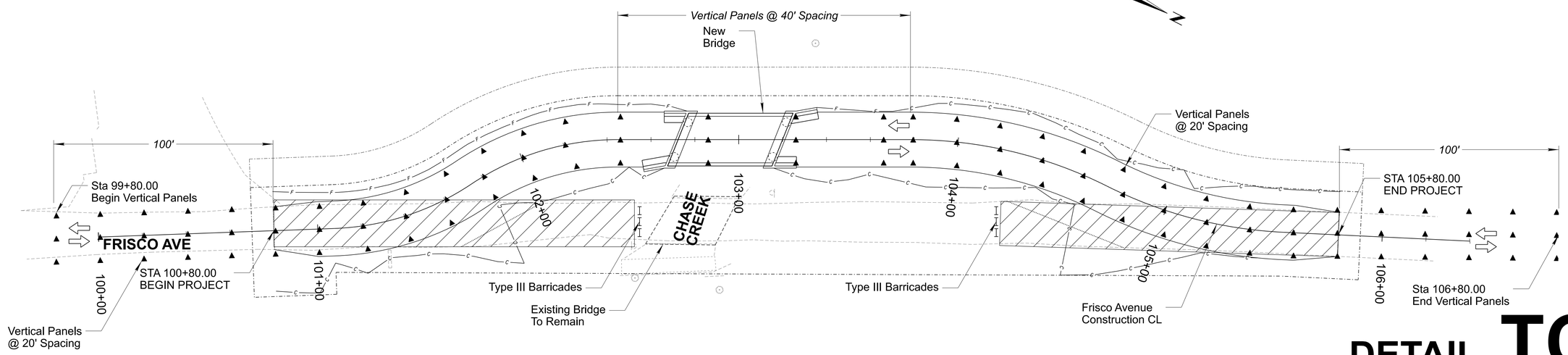
SYMBOL LEGEND:

▲	Vertical Panel (Plan/Elevation)
⇨	Direction of Travel
I	Type III Barricade
▨	Work Zone



DETAIL TC2

SOUTHBOUND
SHOULDER CLOSURE



DETAIL TC3

TRANSITION FROM
EXISTING ROADWAY

	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

CERTIFICATE NO. 24421 RUSSELL E. MOORE Date Signed/Sealed ARIZONA, U.S.A. Expires 09/30/2024

Horrocks.

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

TRAFFIC CONTROL

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	11	37	

LOCATION CHASE CREEK BRIDGE

DWG NO. TC-02.02

TRACS NO. T0285 01C

ADOT

____ OF ____

MAINTENANCE AND PROTECTION OF TRAFFIC TABLE

ACTIVITY	CONSTRUCTION ACTIVITY	TRAFFIC CONTROL	COMMENTS
1	Install Project Advance Warning Signs and CMB's	Maintain northbound (NB) and southbound (SB) Frisco Ave traffic on existing Frisco Ave Provide "ROAD WORK ½ MILE" (W20-1) approximately ½ mile in advance of the work zone in accordance with TC1. (At north in the SB direction near the intersection of San Francisco River Road and Frisco Ave and at the south end near the Park Ave and US 191 intersection in the NB direction). Provide "ROAD WORK AHEAD" (W20-1) in advance of the work zone as follows: • At the intersection of Zorilla St and Park Ave in the WB direction prior to the bridge and behind the sidewalk • At the intersection of Zorilla St and Frisco Ave in the NB direction. • 300' north of the work zone in the SB direction. "END ROAD WORK THANK YOU" (G20-2AZ) signs shall be mounted approximately 300 feet north of the work zone in the NB direction and approximately 550' south of the work zone in the SB direction in accordance with TC1. PCMS signs to read " Frisco Ave Bridge Construction To Begin (Date)". Maintain NB/SB Frisco traffic on Existing Frisco Ave	Maintain business and residential access at all times. CMB's to be placed a minimum of 14 days prior to beginning construction as shown on the Advance Signing Detail TC1 or directed by the Engineer in each direction as needed. Traffic control shall remain in place for duration of the work on spring stands. Advance warning signing shall remain in place for the duration of the project.
2	Grade New Roadway Erosion Control Wall Partial Removal and Excavation Install Drilled Shafts Install Abutments Manufacture & Deliver Bearing Pads and Beams Install Bearing Pads and Beams Install Wing Walls Install Bridge Deck, Abut Diaphragm & Deck Joint Install Bridge Barriers and Barrier Footings Structural Backfill Pave New Roadway & Transition from Existing Roadway	Maintain NB/SB Frisco Ave traffic on Existing Frisco Ave alignment and bridge.	Maintain business and residential access at all times. For channelization devices, use Type II barricades, vertical panel or MUTCD compliant traffic cones at the discretion of the Engineer.
3	Pavement Markings, Delineators, Signing Granite Mulch	Maintain NB/SB Frisco Ave traffic on new Frisco Ave alignment and bridge.	Maintain business and residential access at all times. For channelization devices, use Type II barricades, vertical panel or MUTCD compliant traffic cones at the discretion of the Engineer.

NOTE:
The order of activities above does not constitute a sequence of construction.

REFERENCES / ABBREVIATIONS:
CMB Changeable Message Board

CERTIFICATE NO. 24421 RUSSELL E. MOORE Date Signed 06/30/23 CIVIL REGISTERED PROFESSIONAL ENGINEER ARIZONA, U.S.A. Expires 09/30/2024

	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

Horrocks.

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

MAINTENANCE OF TRAFFIC

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	12	37	

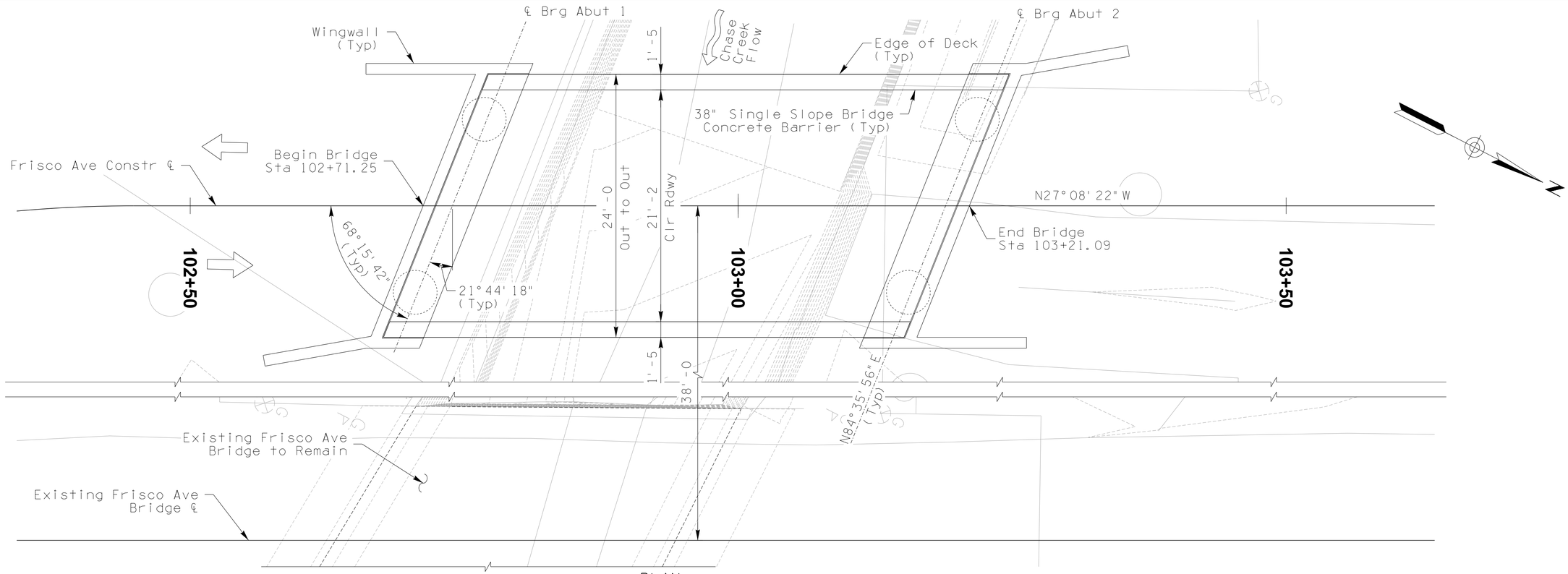
LOCATION CHASE CREEK BRIDGE

TRACS NO. T0285 01C

ADOT

DWG NO. TC-01.01

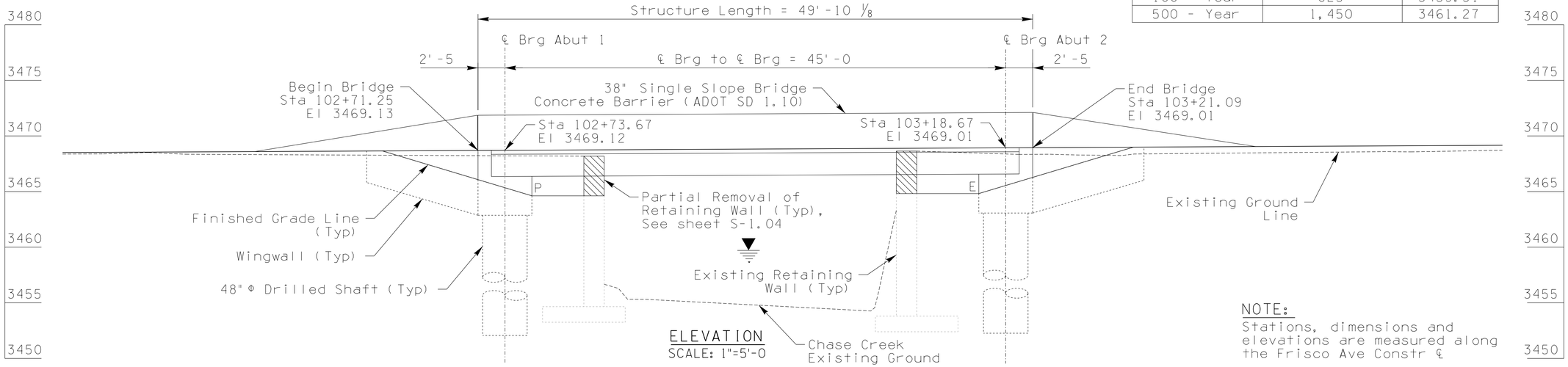
____ OF ____



PLAN

New Precast Prestressed Concrete Voided Slab Bridge
Skew = 21°44'18" Rt
1' Contour Interval
SCALE: 1"=5'-0

Hydraulic Data		
Flow Frequency	Peak Flow (cfs)	WSE (ft)
10 - Year	255	3455.75
50 - Year	620	3458.40
100 - Year	825	3459.31
500 - Year	1,450	3461.27



ELEVATION
SCALE: 1"=5'-0

NOTE:
Stations, dimensions and elevations are measured along the Frisco Ave Constr ℄

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 06/16/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	MCR	06/23
DRAWN	NLP	06/23
CHECKED	JAC	06/23

Horrocks.

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 102+
CHASE CREEK BRIDGE
GENERAL PLAN AND ELEVATION

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	13	37	

LOCATION CHASE CREEK BRIDGE
TRACS NO. T0285 01C
ADOT
DWG NO. S-1.01
____ OF ____

GENERAL NOTES:

Construction Specifications -
Arizona Department of Transportation Standard Specifications for Road and Bridge Construction Edition 2021, Special Provisions and as noted on plans.

Design Specifications -
AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017 - Structural Design Work

AASHTO LRFD Bridge Design Specifications, 6th Edition, 2012 - Geotechnical Design Work

Dead Load -
Dead load includes an allowance of 25 psf for future wearing surface (FWS). The composite design section excludes the top ½" of slab thickness.

Live Load -
Loading Class HL-93

Inventory and Operating Ratings are in accordance with the AASHTO Manual for Bridge Evaluation, 2nd Edition with Interim Revisions through 2016 and in accordance with the Load and Resistance Factor Rating Method.

Inventory Load Rating- RF = 1.19
Operating Load Rating- RF = 2.13

Seismic -
Bridge Site is classified as Seismic Zone 1, Site Class C with Peak Ground Acceleration PGA = 0.081g and Spectral Acceleration at 0.2 sec. S_{DS} = 0.225g and at 1.0 sec., S_{D1} = 0.091g, as modified by the appropriate Site Factors.

Prestressing steel strands shall conform to ASTM A416 (AASHTO M203), Grade 270, Low Relaxation Strands.

Transformed sections for prestressing strands was used for girder analysis.

Reinforcing steel shall conform to ASTM specification A615 (AASHTO M31). All reinforcing steel shall be Grade 60.

All bends and hooks shall meet the requirements of AASHTO Article 5.10.2. 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.

All mechanical splices shall conform to the requirements for mechanical connections in Section 605-3.02 of the Specifications.

All concrete shall be ADOT Class "S" unless noted otherwise.

Chamfer all exposed corners ¾" unless noted otherwise.

All construction joints shall be intentionally roughened to an amplitude of ¼" unless noted otherwise, and be cleared of dirt, oil and otherwise deleterious debris.

Barriers shall be constructed after span has taken dead load deflection. Barriers shall not be slip formed.

GENERAL NOTES (CONT'D):

Dimensions shall not be scaled from drawings.

Material strengths (unless noted otherwise):

C.I.P. Deck and Abutment Diaphragm Concrete	f'c	= 4.5 ksi
Precast Prestressed Beams	f'ci	= See Girder Detail Sheets
	f'c	= See Girder Detail Sheets
Barriers	f'c	= 4.0 ksi
Abutments and Drilled Shafts	f'c	= 3.5 ksi
All other Class "S" concrete	f'c	= 3.0 ksi
Prestressing steel (7-wire low relaxation strand)	fps	= 270.0 ksi
Reinforcing Steel	fy	= 60.0 ksi
Deck Transverse Reinforcing Steel	f's	= 24.0 ksi

STANDARD LIST:

ADOT Bridge Group Structure Detail (SD) Drawings: 1.10, 5.01 and 5.02

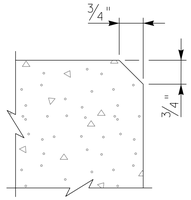
LEGEND:

DETAIL Marker — 1 / xxx — Detail Number; Drawing Number (S-XXX Series)

SECTION Marker — A / xxx — Section Letter; Drawing Number (S-XXX Series)

NOTE:

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



CHAMFER DETAIL 1
SCALE: None

INDEX OF DRAWINGS

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 06/16/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	JAC	06/23
DRAWN	NLP	06/23
CHECKED	MCR	06/23

Horrocks.

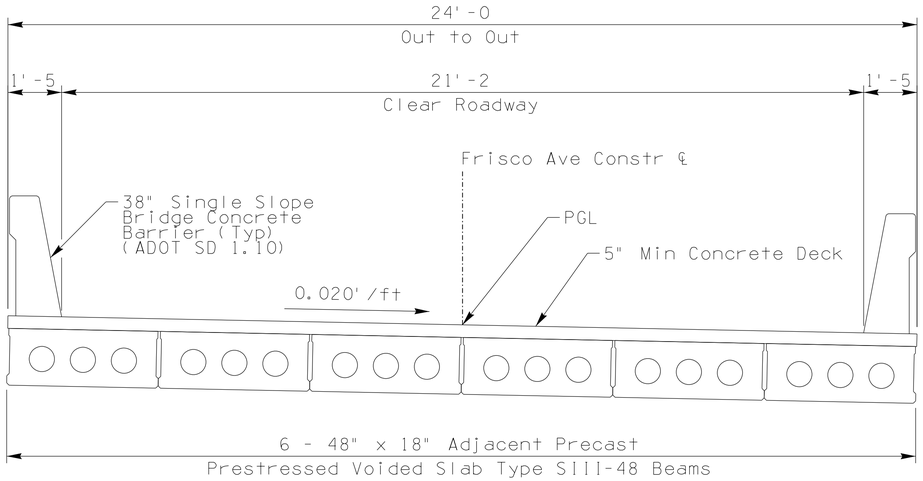
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 102+
CHASE CREEK BRIDGE
GENERAL NOTES AND INDEX

ROUTE
MILEPOST
STRUCTURE NO. 08536

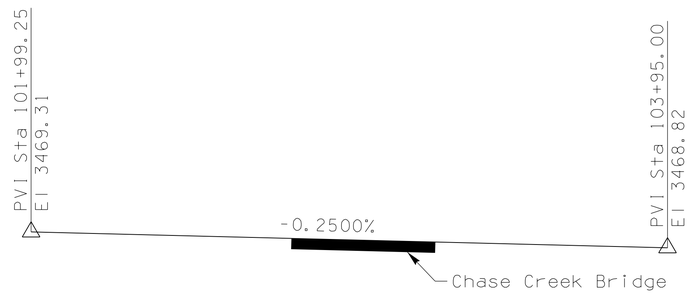
F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	14	37	

LOCATION: CHASE CREEK BRIDGE
TRACS NO. T0285 01C
DWG NO. S-1.02
ADOT
____ OF ____



TYPICAL SECTION
(Looking Ahead Station)
SCALE: ½" = 1'-0



PROFILE GRADE LINE - FRISCO AVE
SCALE: None

APPROXIMATE QUANTITIES							
ITEM	STRUCTURAL EXCAVATION	STRUCTURE BACKFILL	CLASS "S" CONCRETE		REINF STEEL	EPOXY REINF STEEL	48" DIA DRILLED SHAFTS
			f'c=3,500 psi	f'c=4,500 psi			
	CY	CY	CY	CY	LBS	LBS	LF
Abutment #1	55	30	24	-	3,515	-	50
Abutment #2	55	30	24	-	3,455	-	50
Superstructure	-	-	-	25	-	3,650	-
Total	110	60	48	25	6,970	3,650	100
As Built							

Partial Retaining Wall Removal.....8 CY
Precast, P/S member (Voided Slab Type SIII-48).....279 LF
38" Single slope bridge concrete barrier and transition (SD 1.10).....140 LF

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 06/16/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	MCR	06/23
DRAWN	NLP	06/23
CHECKED	JAC	06/23

Horrocks.

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 102+
CHASE CREEK BRIDGE
TYPICAL SECTION AND QUANTITIES

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	15	37	

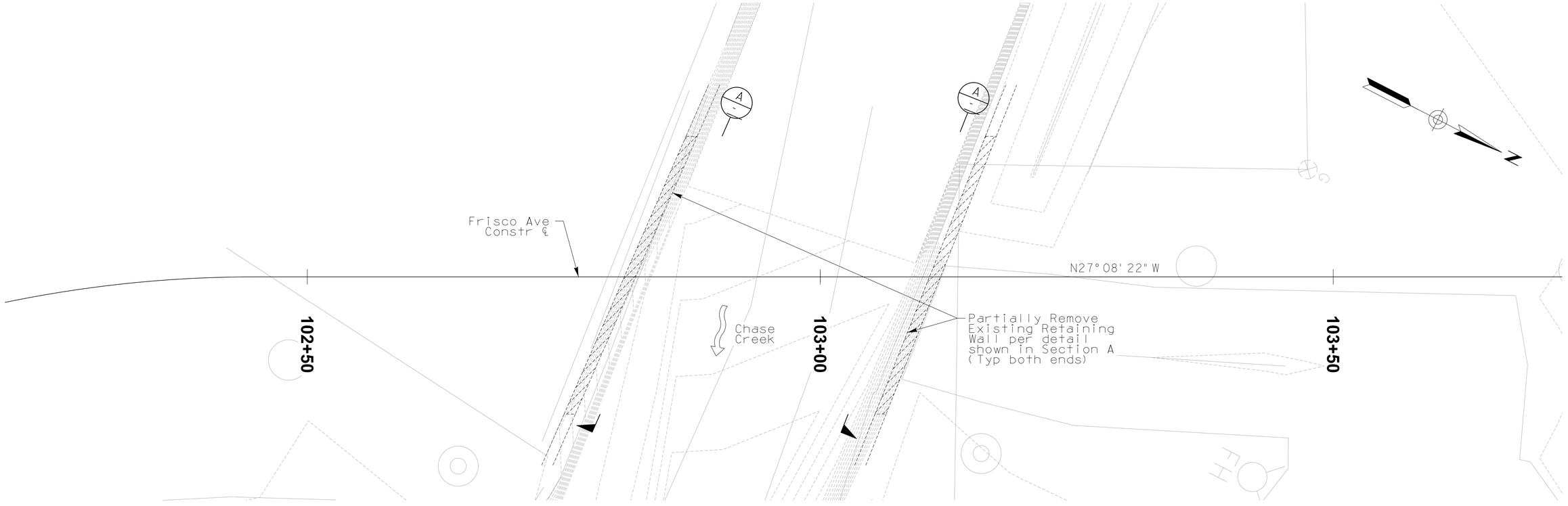
LOCATION CHASE CREEK BRIDGE

TRACS NO. T0285 01C

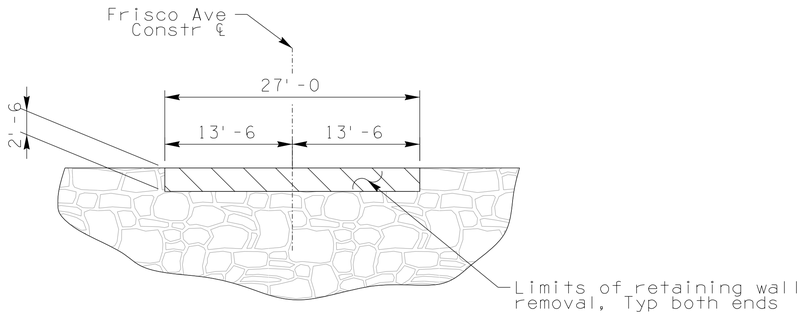
ADOT

DWG NO. S-1.03

____ OF ____



PLAN
SCALE: 1" = 5'-0



SECTION A-
SCALE: None

REMOVAL NOTES:

1. The contractor shall take due care in removal of retaining wall to prevent damage to the existing retaining wall that will remain in place. All damages shall be repaired at no cost to the Department.

2. Contractor shall verify dimensions prior to removal.

3. In addition to the requirements of Section 202-3.05 of the Specifications, at least ten days before beginning any removal operations the contractor shall submit to the Engineer for review and approval, details of the proposed removal operations showing the methods and sequence of removal and equipment to be used.

4. Retaining wall removal is paid for under Item 2020051.

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 09/19/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	JAC	06/23
DRAWN	NLP	06/23
CHECKED	MCR	06/23

Horrocks.

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 102+
CHASE CREEK BRIDGE
REMOVAL DETAILS

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GE CLF	CLF-0(202)T	16	37	

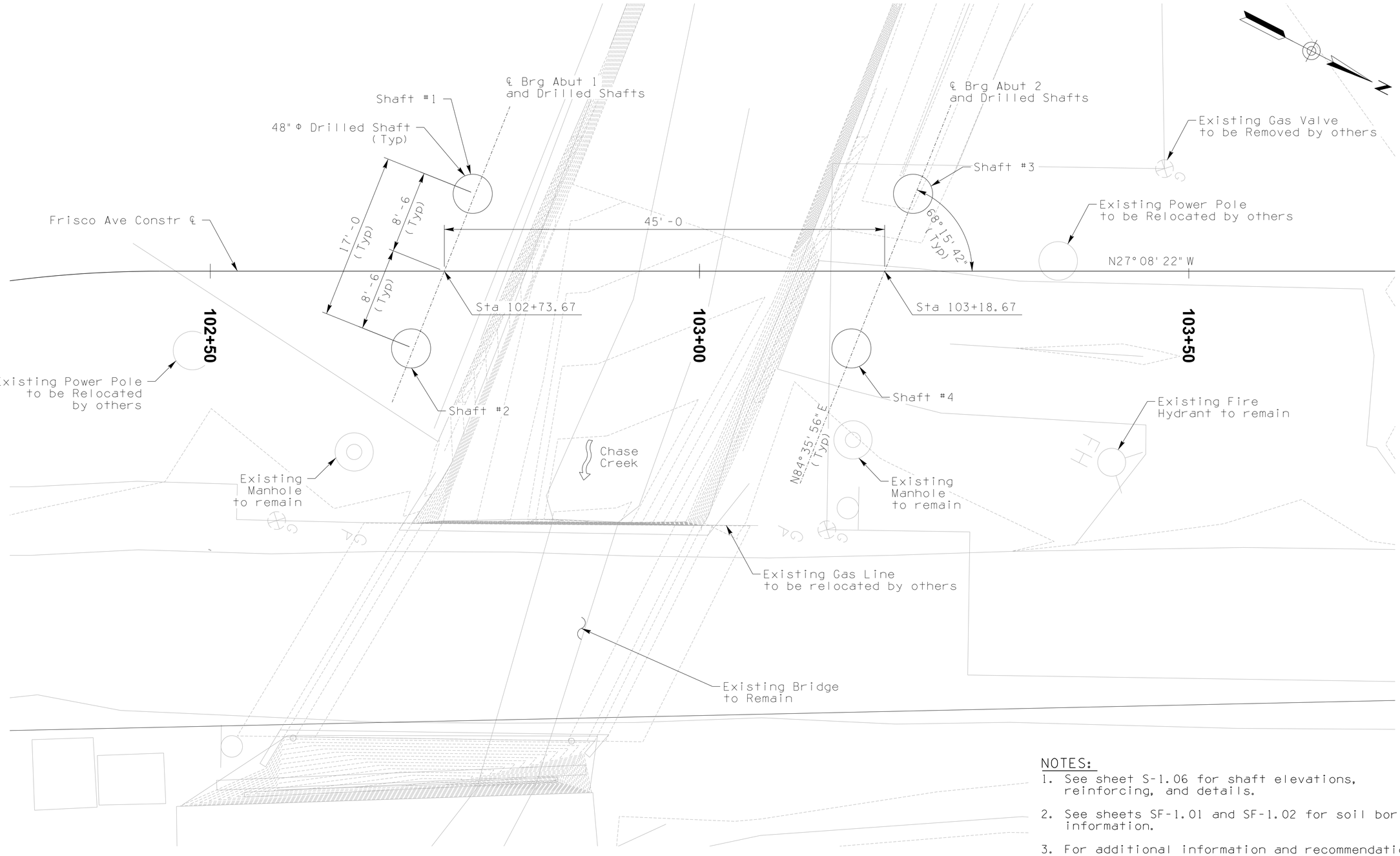
LOCATION CHASE CREEK BRIDGE

DWG NO. S-1.04

TRACS NO. T0285 01C

ADOT

___ OF ___



FOUNDATION PLAN

Skew = 21°44'18" Rt
SCALE: 1" = 5'-0

NOTES:

1. See sheet S-1.06 for shaft elevations, reinforcing, and details.
2. See sheets SF-1.01 and SF-1.02 for soil boring information.
3. For additional information and recommendations regarding soil conditions and foundation construction, see the final Geotechnical Exploration Report dated October 6, 2022.

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 06/30/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	JAC	06/23
DRAWN	NLP	06/23
CHECKED	MCR	06/23

Horrocks.

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 102+
CHASE CREEK BRIDGE
FOUNDATION PLAN

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	17	37	

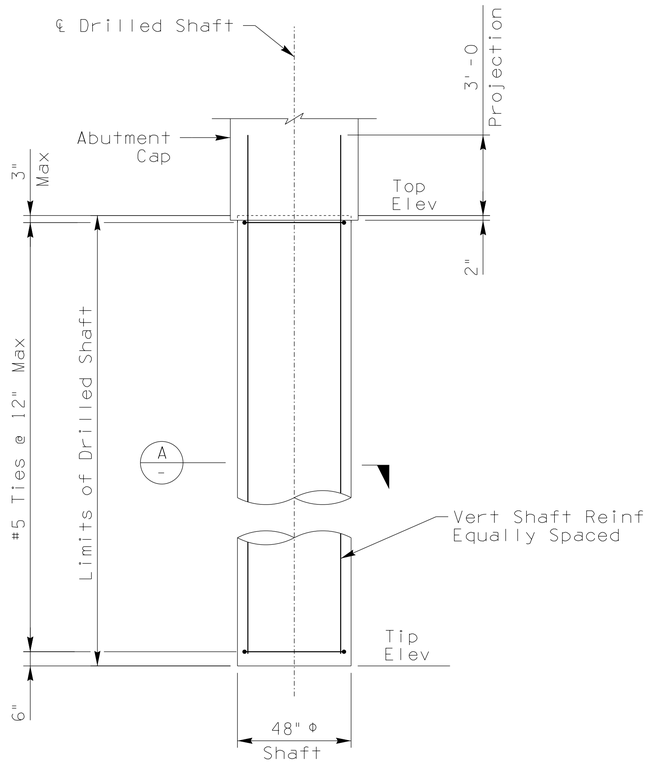
LOCATION CHASE CREEK BRIDGE

TRACS NO. T0285 01C

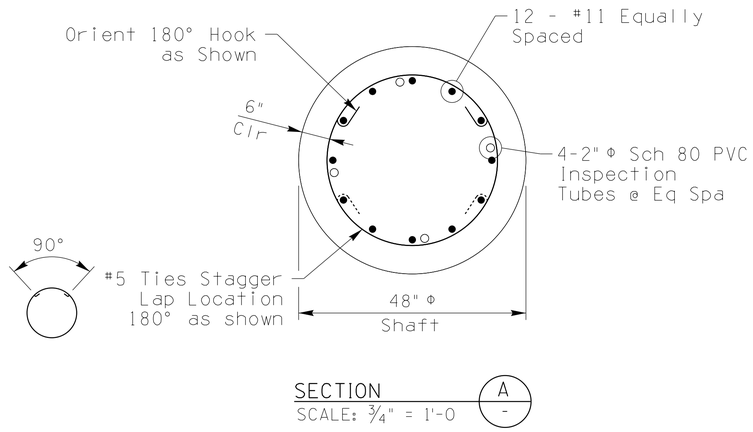
ADOT

DWG NO. S-1.05

____ OF ____



DRILLED SHAFT ELEVATION
SCALE: 3/8" = 1'-0



SECTION A-
SCALE: 3/4" = 1'-0

DRILLED SHAFT DATA								
Location	Shaft No.	Design Loads (kips per shaft)			Estimated Design Settlement (in)	Top Elev	Tip Elev	Length
		Service Limit State	Service Limit State (1)	Strength Limit State (1)				
Abut 1	1	226	226	333	< 0.1	3463.35	3438.35	25'
Abut 1	2	226	226	333	< 0.1	3463.35	3438.35	25'
Abut 2	3	226	226	333	< 0.1	3463.24	3438.24	25'
Abut 2	4	226	226	333	< 0.1	3463.24	3438.24	25'

(1) Modified for Non-Redundancy and/or Group Effects.

NOTES:

1. Drilled shaft construction shall be in accordance with Section 609 of the Specifications.
2. Drilled shafts shall be constructed into existing grade and/or compacted roadway embankment.
3. Shaft concrete shall be placed within 24 hours after the excavation has been completed and the reinforcing cage placed in position. Shaft cage shall be held in position during placement of shaft concrete.
4. Any construction joint not shown on the project plans shall require the review and approval of the Engineer prior to construction.
5. Drilled shaft #1 shall be considered the confirmation shaft.
6. In the event of a weak soil layer (silt, clay, loose sand, etc.) at the recommended tip elevation, the shaft shall be extended to bear on firm soil as determined by the Engineer.
7. Inspection tubes shall be installed in all shafts. Size, type, and details of tubes shall be per the Specifications. Tubes shall not be attached to the vertical reinforcing.
8. See Section 609 of the Specifications for integrity testing and other additional requirements.
9. No splices are allowed in the vertical steel.
10. The cost of drilled shaft vertical reinforcing projection above top elevation, any casings, and any additional concrete required for oversized casings shall be included in the drilled shaft pay item 6090048.

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 06/30/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	JAC	06/23
DRAWN	NLP	06/23
CHECKED	MCR	06/23

Horrocks.

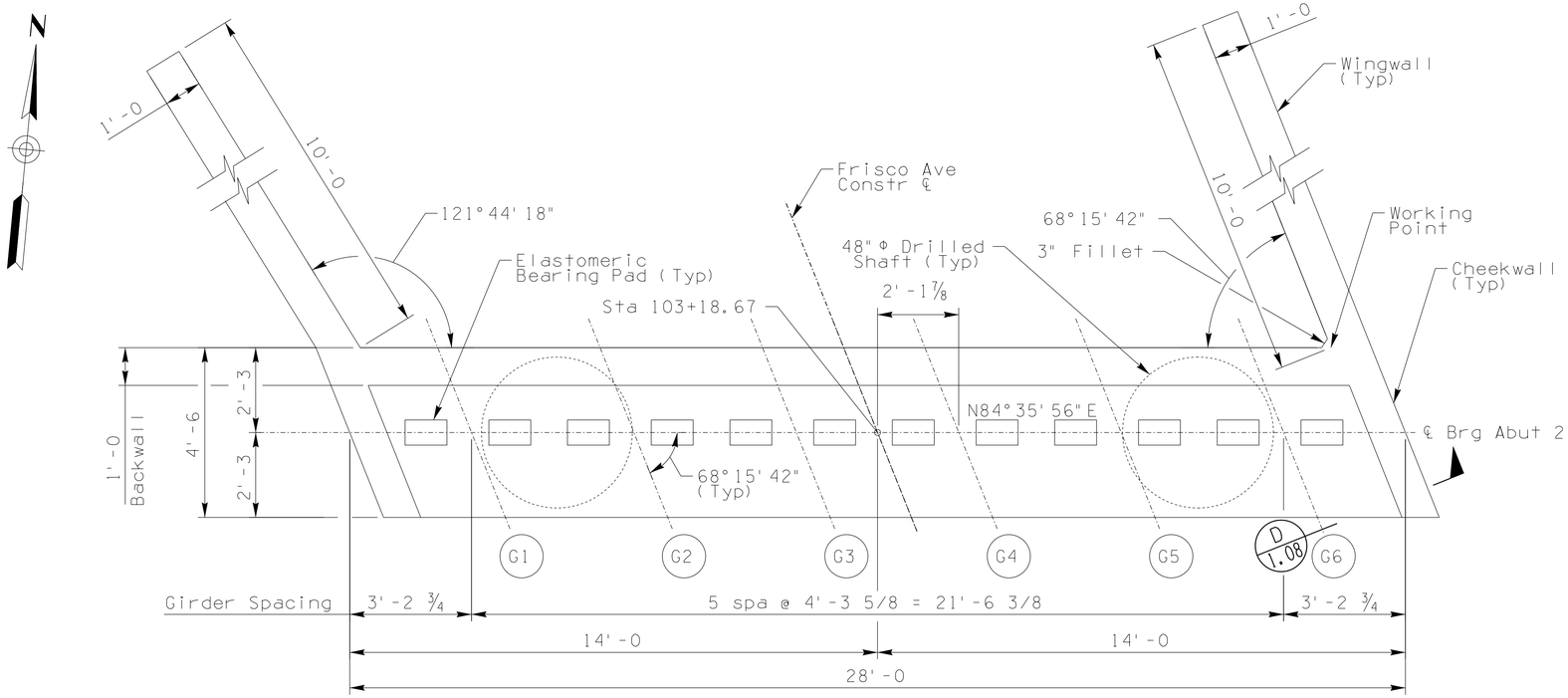
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 102+
CHASE CREEK BRIDGE
DRILLED SHAFT DETAILS

ROUTE
MILEPOST
STRUCTURE NO. 08536

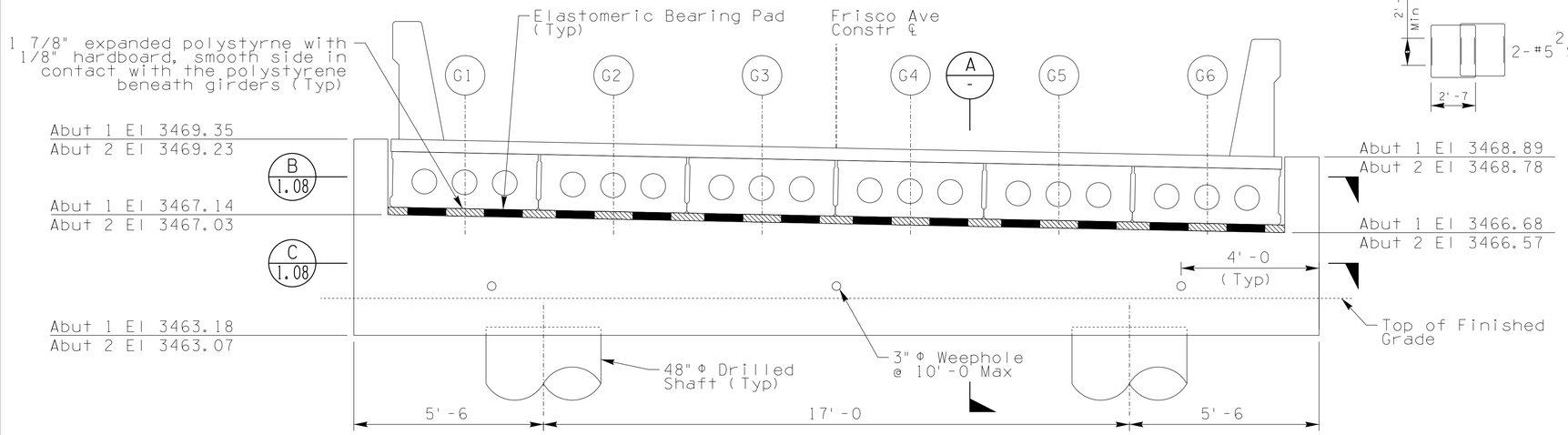
F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	18	37	

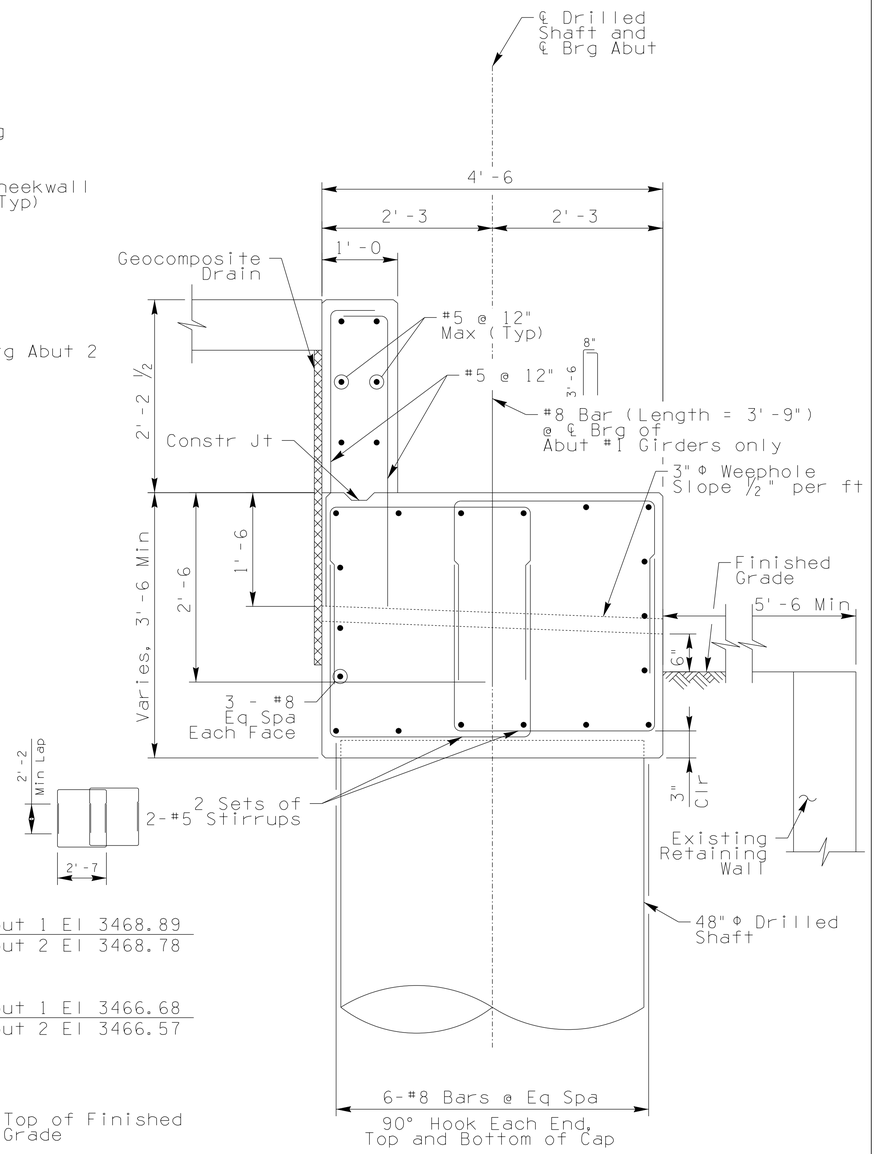
LOCATION CHASE CREEK BRIDGE
DWG NO. S-1.06
TRACS NO. T0285 01C
ADOT
____ OF ____



ABUTMENT 2 PLAN
Abutment 1 Similar
SCALE: ½" = 1'-0



ABUTMENT 2 ELEVATION
Abutment 1 Similar
SCALE: ½" = 1'-0



SECTION A -
SCALE: 1" = 1'-0

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 09/30/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	JAC	06/23
DRAWN	NLP	06/23
CHECKED	MCR	06/23

Horrocks.

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

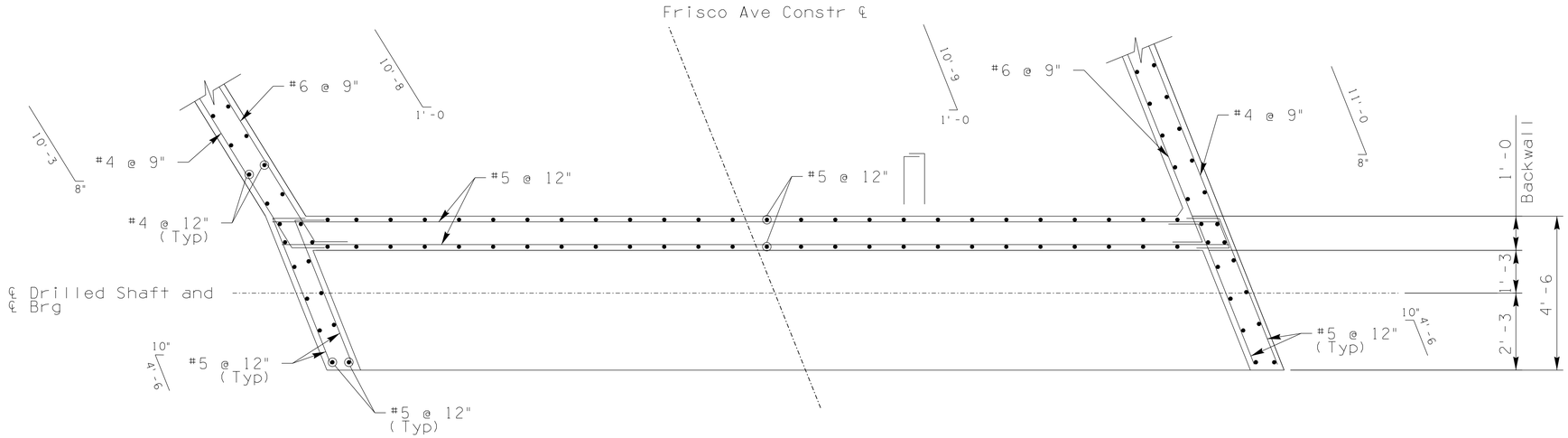
STA 102+
CHASE CREEK BRIDGE
ABUTMENT PLAN AND ELEVATION

ROUTE
MILEPOST
STRUCTURE NO. 08536

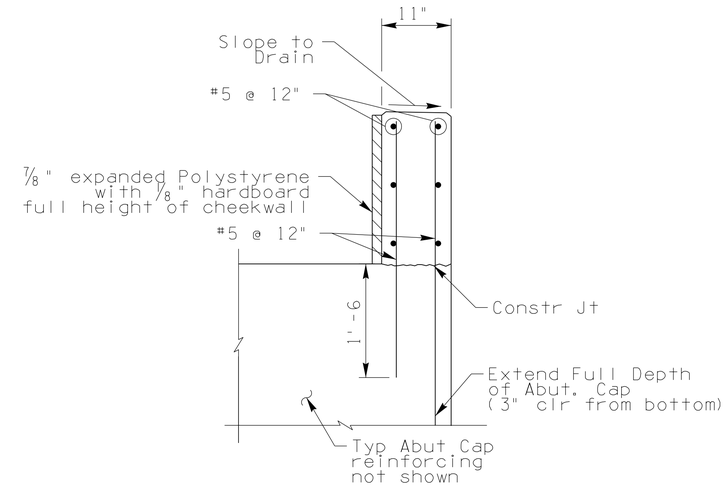
F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	19	37	

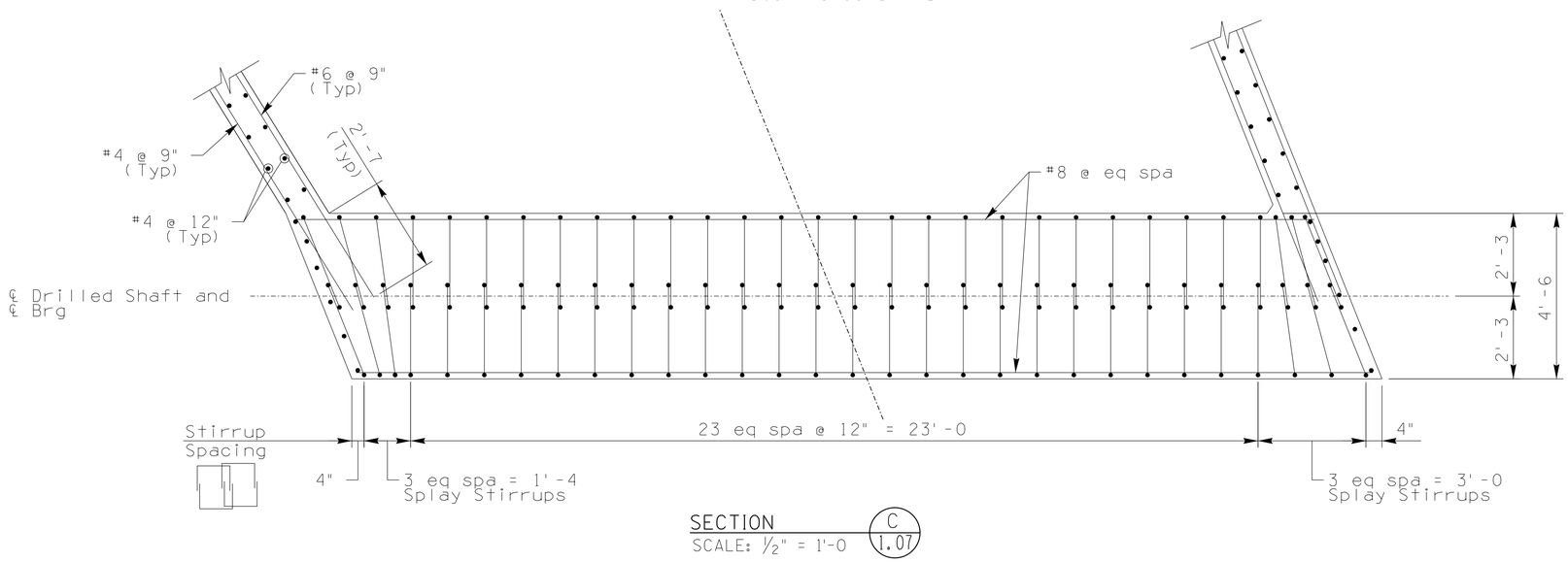
LOCATION CHASE CREEK BRIDGE
TRACS NO. T0285 01C
DWG NO. S-1.07
ADOT
____ OF ____



SECTION B
SCALE: ½" = 1'-0 — 1.07



SECTION D
SCALE: 1" = 1'-0 — 1.07



SECTION C
SCALE: ½" = 1'-0 — 1.07

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 06/15/23 ARIZONA, U.S.A.

Horrocks.

	NAME	DATE
DESIGN	JAC	06/23
DRAWN	NLP	06/23
CHECKED	MCR	06/23

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 102+
CHASE CREEK BRIDGE
ABUTMENT DETAILS

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	20	37	

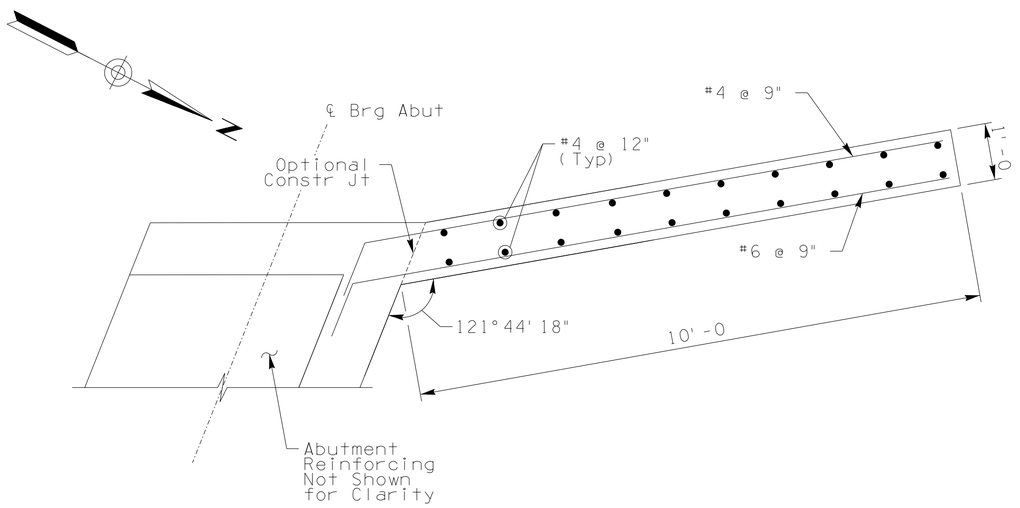
LOCATION CHASE CREEK BRIDGE

TRACS NO. T0285 01C

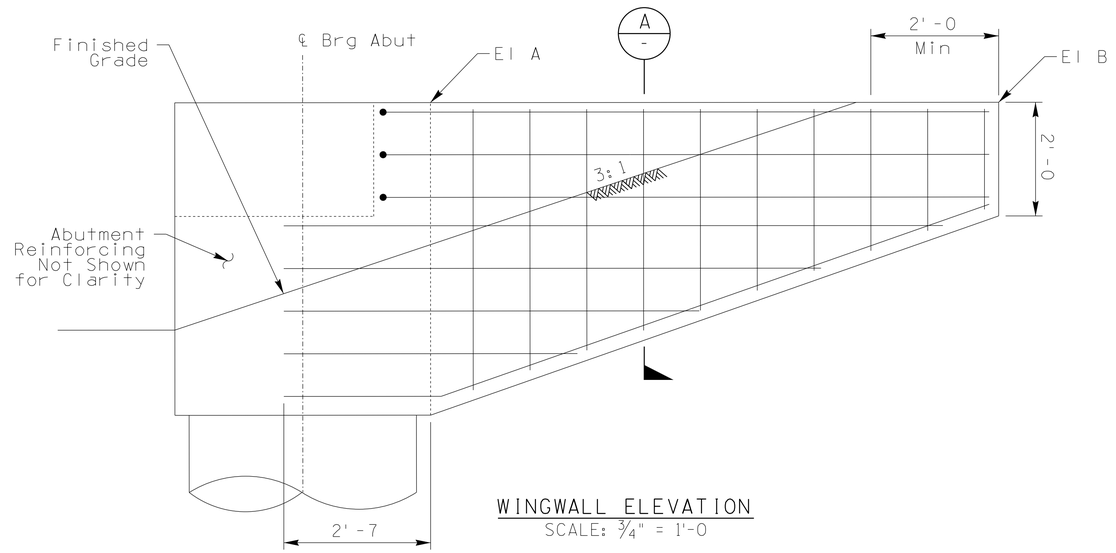
ADOT

DWG NO. S-1.08

____ OF ____



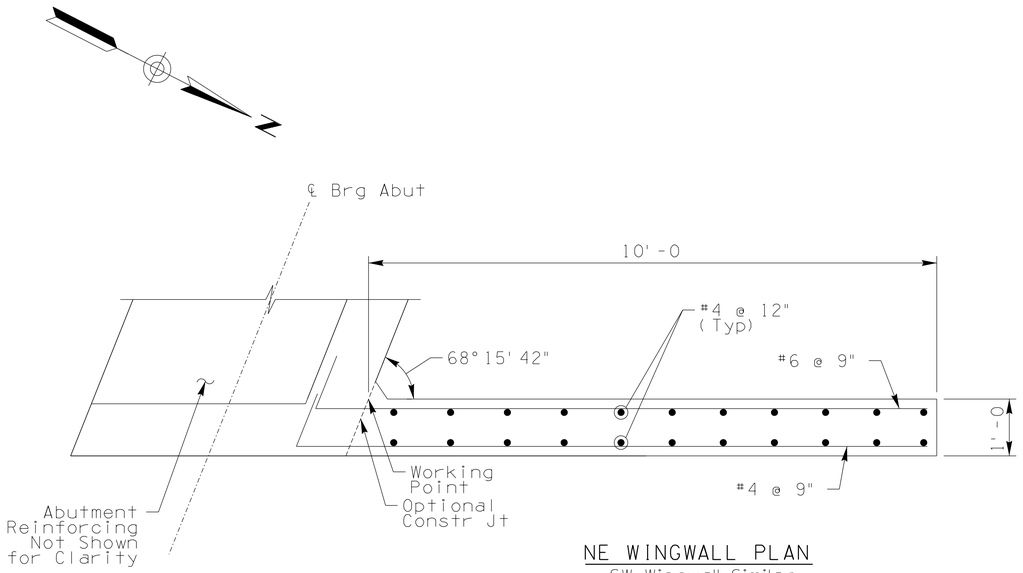
NW WINGWALL PLAN
SE Wingwall Similar
SCALE: ¾" = 1'-0



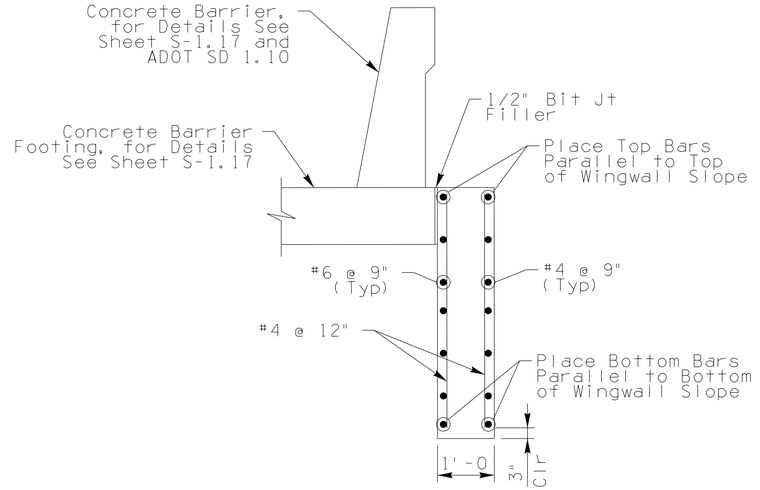
WINGWALL ELEVATION
SCALE: ¾" = 1'-0

Location	* El A	* El B
Abut 1 - SW Wingwall	3469.35	3469.38
Abut 1 - SE Wingwall	3468.90	3468.89
Abut 2 - NW Wingwall	3469.23	3469.24
Abut 2 - NE Wingwall	3468.77	3468.75

* Elevations shown are taken at the front face of wingwall



NE WINGWALL PLAN
SW Wingwall Similar
SCALE: ¾" = 1'-0



SECTION A
SCALE: ¾" = 1'-0

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed Jan 15, 2023 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	JAC	06/23
DRAWN	NLP	06/23
CHECKED	MCR	06/23

Horrocks.

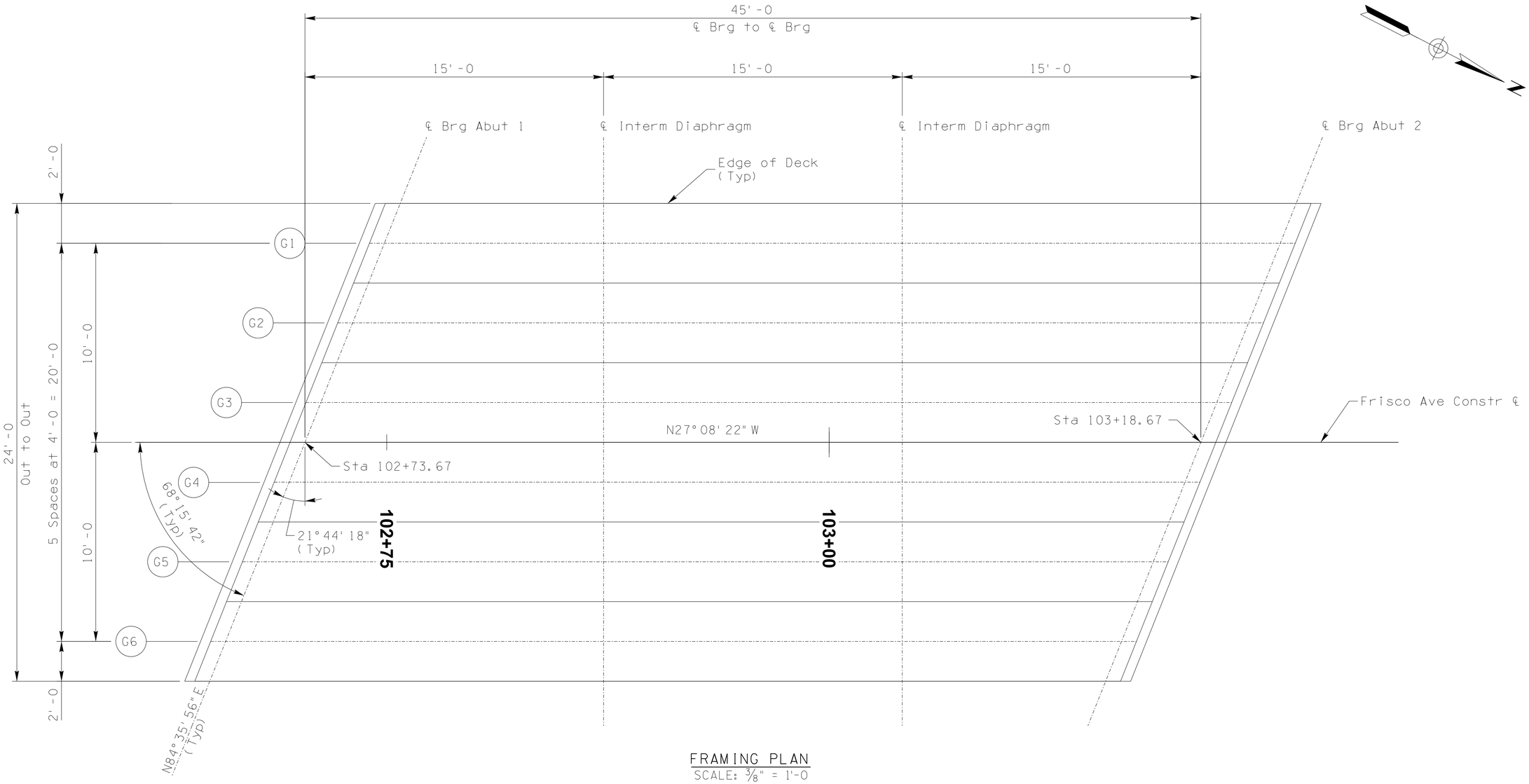
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 102+
CHASE CREEK BRIDGE
WINGWALL DETAILS

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	21	37	

LOCATION CHASE CREEK BRIDGE
TRACS NO. T0285 01C
DWG NO. S-1.09
ADOT
____ OF ____



FRAMING PLAN
SCALE: 3/8" = 1'-0

NOTE:
1. For Girder Information, See sheets S-1.11 to S-1.14.

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 06/15/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	MCR	06/23
DRAWN	NLP	06/23
CHECKED	JAC	06/23

Horrocks.

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 102+
CHASE CREEK BRIDGE
FRAMING PLAN

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	22	37	

LOCATION CHASE CREEK BRIDGE

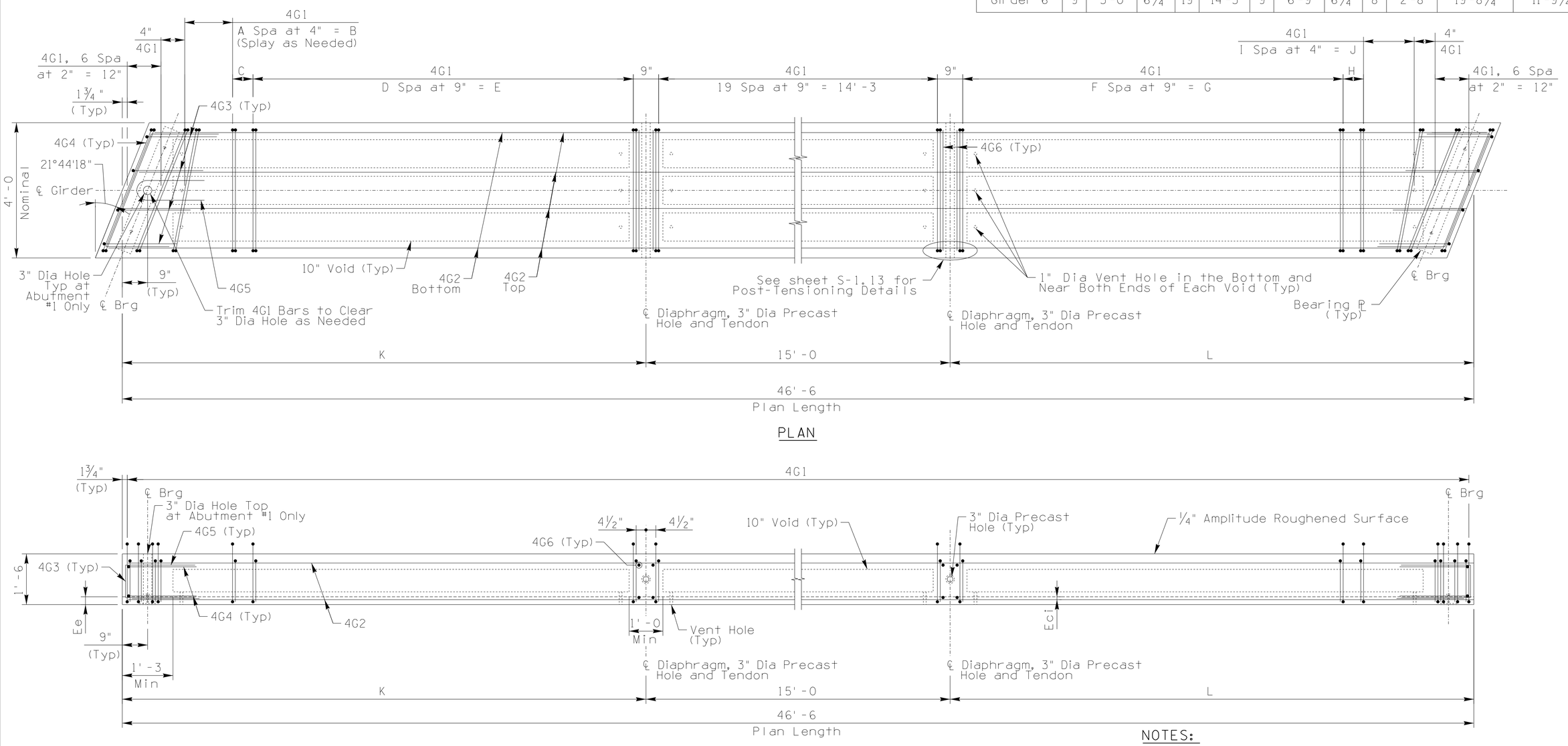
DWG NO. S-1.10

TRACS NO. T0285 01C

ADOT

____ OF ____

Girder No.	A	B	C	D	E	F	G	H	I	J	K	L
Girder 1	8	2'-8	6¾"	9	6'-9	19	14'-3	6¾"	9	3'-0	11'-9¼	19'-8¾
Girder 2	8	2'-8	7⅞"	11	8'-3	17	12'-9	5⅝"	9	3'-0	13'-4½	18'-1½
Girder 3	8	2'-8	9"	13	9'-9	15	11'-3	8½"	8	2'-8	14'-11½	16'-6½
Girder 4	8	2'-8	8½"	15	11'-3	13	9'-9	9"	8	2'-8	16'-6½	14'-11½
Girder 5	9	3'-0	5⅝"	17	12'-9	11	8'-3	7⅞"	8	2'-8	18'-1½	13'-4½
Girder 6	9	3'-0	6¾"	19	14'-3	9	6'-9	6¾"	8	2'-8	19'-8¾	11'-9¼



PLAN

ELEVATION

NOTES:

1. Increase plan length as necessary to compensate for shortening due to prestress and shrinkage.

2. Bar mark 4G1 refers to a bundle of 4G1A and 4G1B(E).

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 06/16/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	MCR	06/23
DRAWN	NLP	06/23
CHECKED	JAC	06/23

Horrocks.

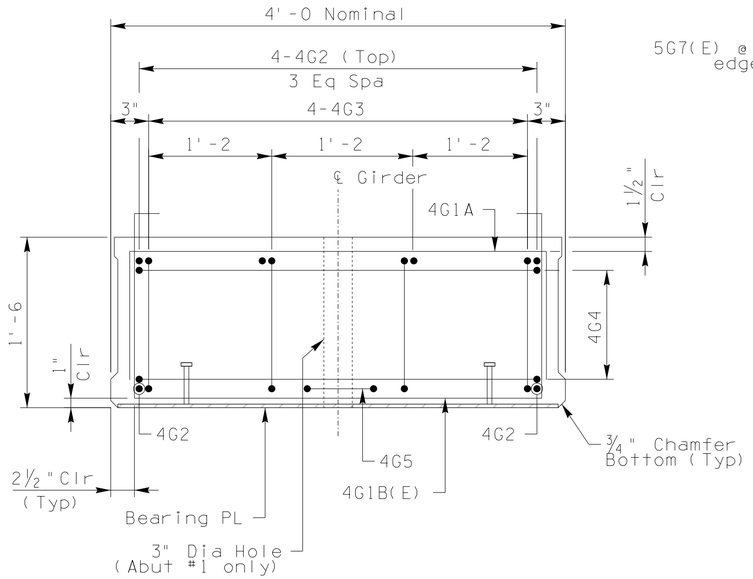
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 102+
CHASE CREEK BRIDGE
GIRDER DETAILS 1 OF 4

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

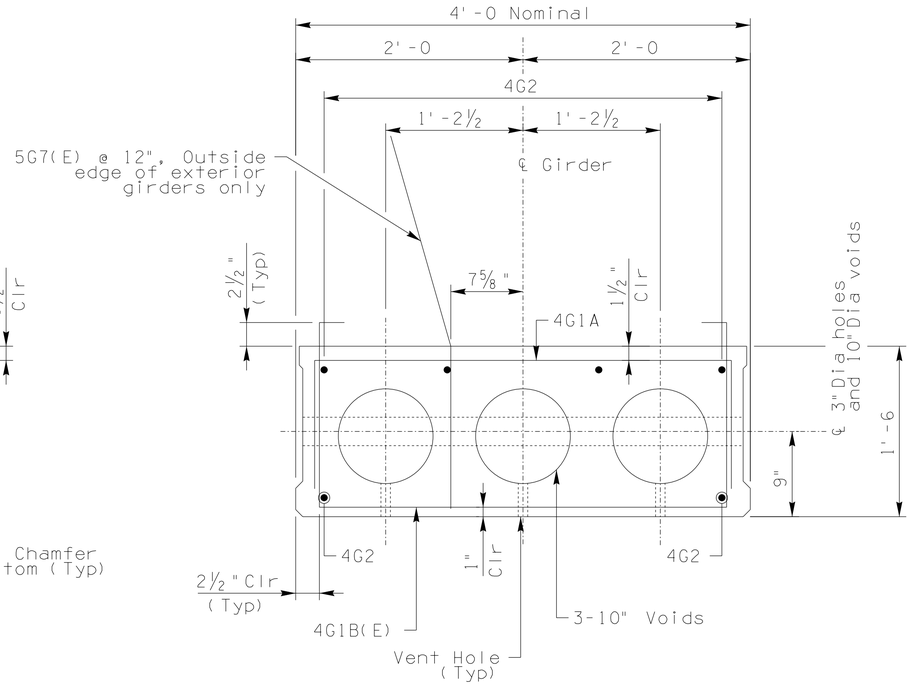
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	23	37	

LOCATION CHASE CREEK BRIDGE
TRACS NO. T0285 01C
ADOT
DWG NO. S-1.11
____ OF ____



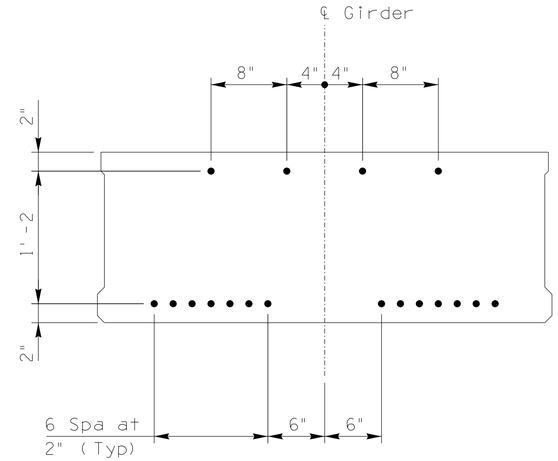
SECTION AT ℄ BEARING

SCALE: 1½" = 1'-0



SECTION AT MIDSPAN

SCALE: 1½" = 1'-0

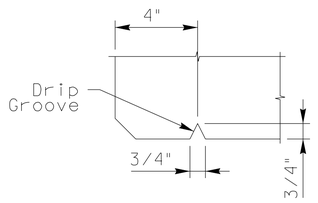


STRAND LAYOUT

(18 - 0.6"Φ Strands)
SCALE: 1½" = 1'-0

REINFORCEMENT DIAGRAMS		
MARK	SIZE	SKETCH
4G1A	4	15" [3'-6½] 15"
4G1B(E)	4	20" [3'-6½] 20"
4G2	4	46'-3
4G3	4	14" [2'-0
4G4	4	2'-0 / 3'-9 / 2'-0
4G5	4	2½" RAD → 2'-0 6"
4G6	4	3'-6½
5G7(E)	5	1'-4½ — 2'-10 — 7" ← 2'-9¼ →

(E) Indicates epoxy coated bar



DRIP GROOVE DETAIL

Provide Drip Groove on Exterior Girders Only
SCALE: None

GIRDER NOTES:

1. Use 18-0.6 inch diameter 7 wire low relaxation strands (AASHTO M203 Grade 270).
2. f'ci = 7500 psi minimum strength at transfer.
   f'c = 8500 psi minimum strength at 28 days.
   Pi = 791 kips initial tension before losses.
   Pw = 693 kips working force remaining after all losses.
   Ee = 5.11 inch, Eci = 5.11 inch.
3. All low relaxation strands shall be stressed to 0.75 fpu.
4. Girders shall be prestressed by the pretensioning method only.
5. The top surface of the top slab shall be roughened to a depth of approximately 1/4 inch.
6. Design and install lifting embedments in accordance with the Specifications.
7. Use structural steel conforming to AASHTO M270 Grade 36 for bearing plate. Galvanize according to AASHTO M111.

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 06/15/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	MCR	06/23
DRAWN	NLP	06/23
CHECKED	JAC	06/23

Horrocks.

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 102+
CHASE CREEK BRIDGE
GIRDER DETAILS 2 OF 4

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	24	37	

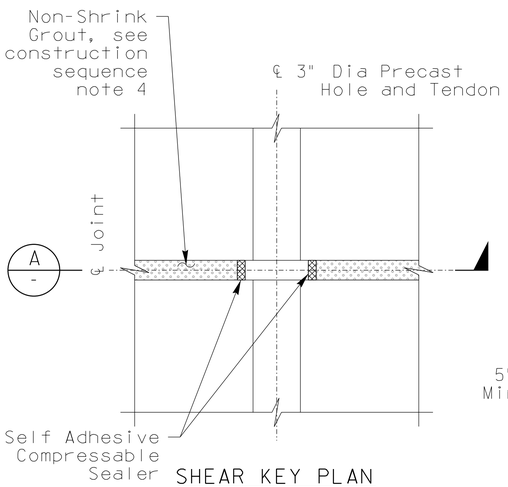
LOCATION CHASE CREEK BRIDGE

DWG NO. S-1.12

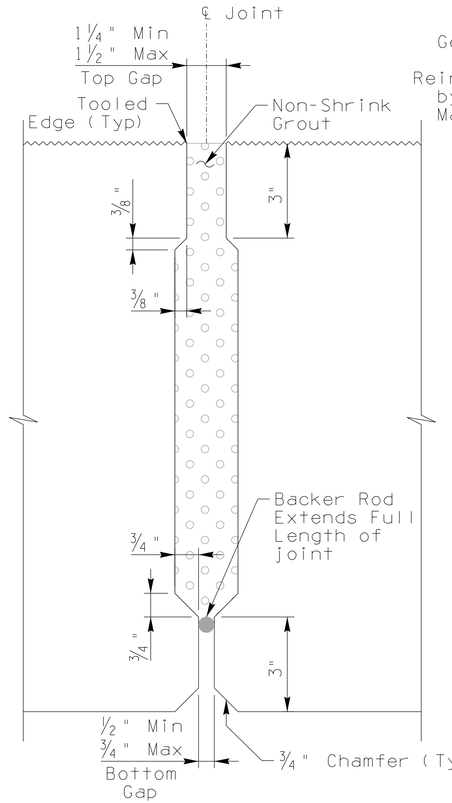
TRACS NO. T0285 01C

ADOT

____ OF ____

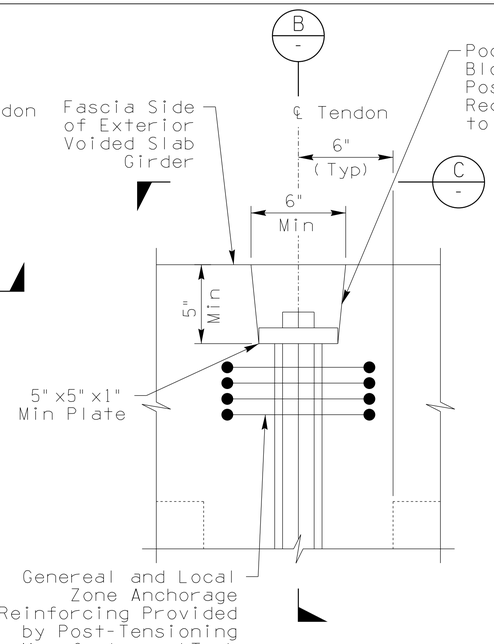


SHEAR KEY PLAN

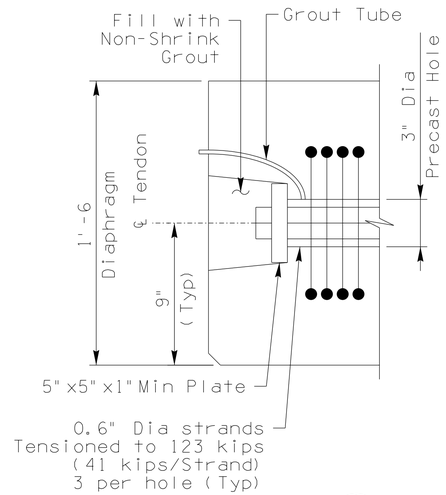


SHEAR KEY DETAIL

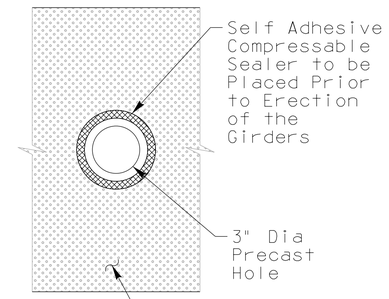
Shear Key is Typical each side of Girders except fascia side of exterior girders.
Omit keyway on fascia side of exterior girders.



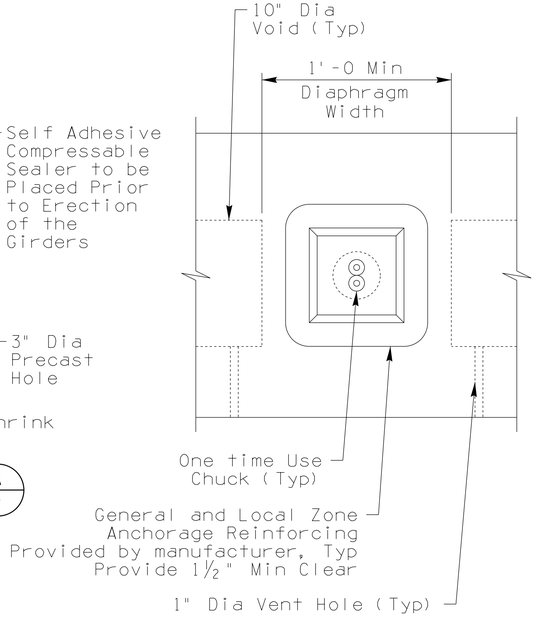
POST-TENSIONING RECESS DETAIL



SECTION B - B
SCALE: None



SECTION A - A
SCALE: None



SECTION C - C
SCALE: None

POST-TENSIONING NOTES:

1. Post-tensioning contractor to provide duct joint bleed hole locations required for grouting.
2. Provide 1½ inch minimum clear distance from post-tensioning duct and reinforcing to voids and top and bottom of voided slab girders.
3. Use standard or oversized duct. Minimum inside diameter of duct is 3 inches. Use self adhesive compressible sealer at shear key joints to ensure seal. Check duct for any dents or leaks and repair prior to grouting.
4. Grout with grout approved by post-tensioning contractor following post-tensioning supplier's grout plan.
5. Use 0.6 inch diameter Grade 270 low relaxation strands conforming to AASHTO M203 Grade 270. Use 6 total strand per span.
6. Use 3 strands per duct.
7. Galvanize bearing plate at anchorages. Do not galvanize strand gripping wedges.
8. The design is based upon the following assumptions:
   Coefficient of Friction = 0.25
   Wobble Friction Coefficient = 0.0002
   If the proposed post-tensioning system does not meet these values, adjust the jacking force to produce the final post-tensioning force listed below.
9. Submit stressing sequence to Engineer for approval prior to work.
10. Jacking force per strand = 41.0 kips.
11. Final prestressed force per strand = 36.0 kips (after losses due to friction, anchorage set and elastic shortening).
12. The contractor is responsible for design of all post-tensioning elements and anchorage zone reinforcement (required for splitting, bursting, spalling, etc). In the general and local zones (region immediately surrounding post-tensioning devices), design must conform with AASHTO LRFD Bridge Design Specifications current edition.
13. If the Contractor prefers an alternative post-tensioning system, submit the revised system and details to the Engineer for approval prior to fabrication of the girders.
14. The cost of post-tensioning shall be included in pay Item 6014971.

CONSTRUCTION SEQUENCE:

1. Set voided slab girders.
2. Ensure post-tensioning ducts are sealed.
3. Install transverse post-tensioning system. Do not stress.
4. Grout shear keys. The cost of the grout shall be included in pay item 6014971.
5. Stress transverse post-tensioning system.
6. Grout post-tensioning ducts.
7. Install #8 dowels and grout vertical dowel holes in girder (abutment #1 only). The cost of the dowels shall be included in pay Item 6050002.

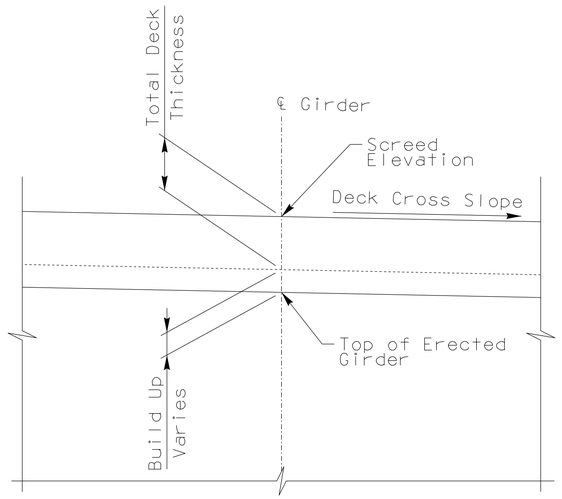
Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 06/30/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	MCR	06/23
DRAWN	NLP	06/23
CHECKED	JAC	06/23

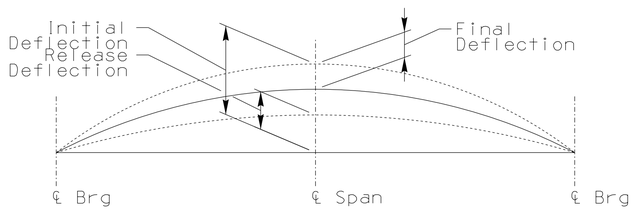
Horrocks.

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 102+
CHASE CREEK BRIDGE
GIRDER DETAILS 3 OF 4

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 GE CLF	CLF-0(202)T	25	37	
STRUCTURE NO. 08536	LOCATION CHASE CREEK BRIDGE					DWG NO.	S-1.13
	TRACS NO. T0285 01C	ADOT					___ OF ___



SCREED ELEVATION SECTION
SCALE: None



DEFLECTION DIAGRAM
SCALE: None

GIRDER DEFLECTIONS (FT)									
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
RELEASE	0.02	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.02
INITIAL	0.03	0.05	0.05	0.06	0.06	0.06	0.05	0.05	0.03
FINAL	0.01	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.01

DEFLECTION NOTES:

1. Release Deflection equals the deflection that the prestressed girder undergoes at the time of strand release. The Release Deflection includes the dead load of the girder and the release prestressing force (including the effects of the elastic shortening).

2. Initial Deflection equals the deflection that the prestressed girder undergoes at the time of erection prior to the installation of the deck slab. The initial deflection includes the deflection due to the dead load of the girder, the initial prestressing and the effects of creep & loss of prestress up to the time of erection (assumed at 60 days after release).

3. Final Deflection equals elastic deflection due to the dead load of the deck slab, and barriers and the effects of long term creep & loss of prestress on the composite girders. The effects of future wearing surface loading are not included.

4. The build-up shall be calculated based on the measured elevations at the top of the erected girder. (Build-up) = (Screed elevation) - (Deck slab thickness) - (Measured erected elevation at top of girder).

5. See sheet S-1.03 for total deck thickness, deck cross slope and other information not shown.

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed ver 15/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	MCR	06/23
DRAWN	NLP	06/23
CHECKED	JAC	06/23

Horrocks.

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 102+
CHASE CREEK BRIDGE
GIRDER DETAILS 4 OF 4

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	26	37	

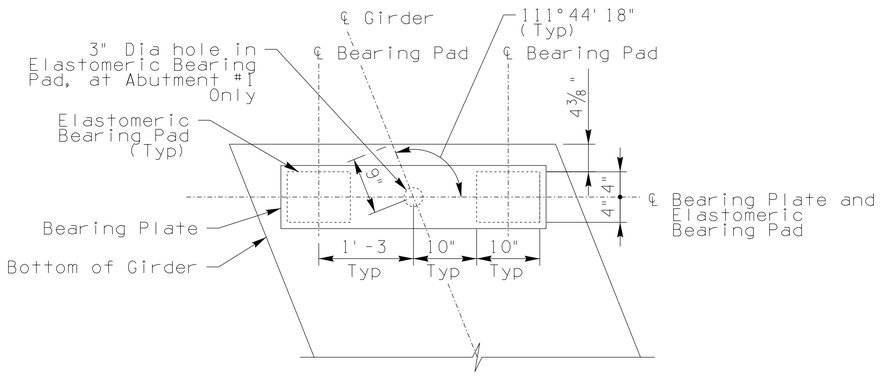
LOCATION CHASE CREEK BRIDGE

TRACS NO. T0285 01C

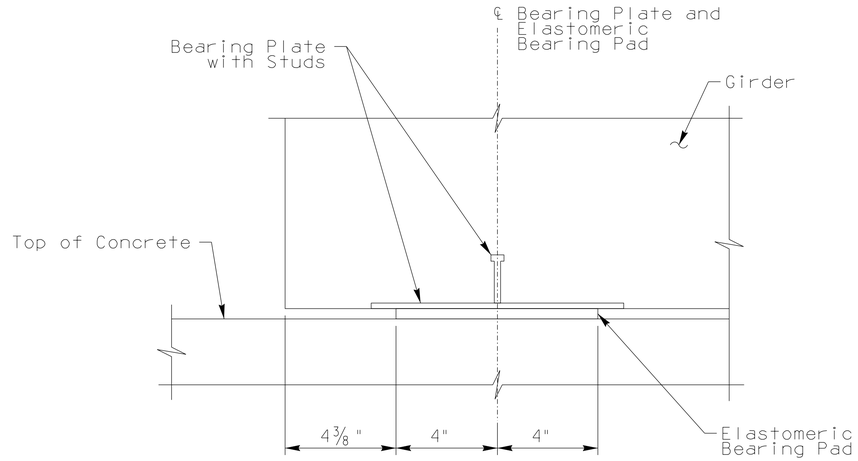
ADOT

DWG NO. S-1.14

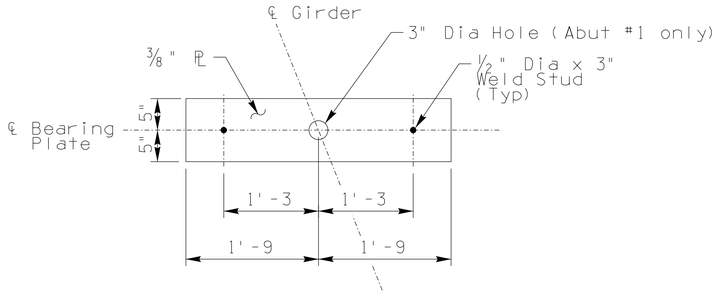
____ OF ____



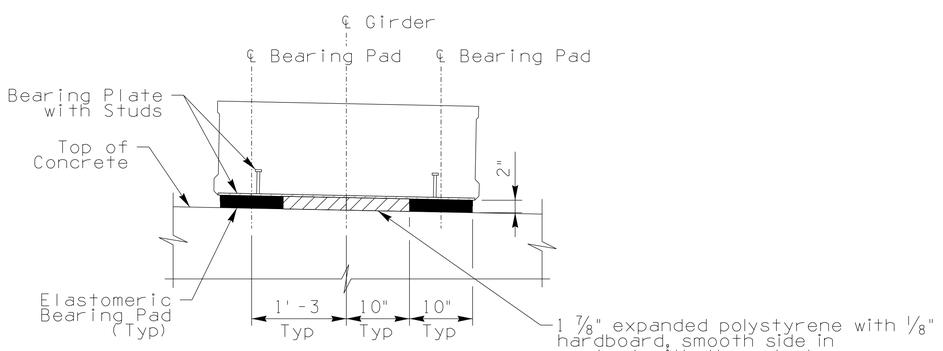
BEARING PLAN
SCALE: 1" = 1'-0



BEARING DETAIL - SIDE VIEW
SCALE: None



GIRDER BEARING PLATE
SCALE: 1" = 1'-0



BEARING DETAIL - END VIEW
SCALE: 1" = 1'-0

NOTES:

1. See Special Provisions for bearing pad requirements.
2. Elastomeric bearing pads shall be steel laminated neoprene pads.
3. Bearing pad design parameters:
   Design Load = 32 kips
   Design Method A
   Low Temperature Zone B
   Elastomer Grade 2
   Shear Modulus G = 130 psi
   Durometer Hardness 55

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 09/15/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	MCR	06/23
DRAWN	NLP	06/23
CHECKED	JAC	06/23

Horrocks.

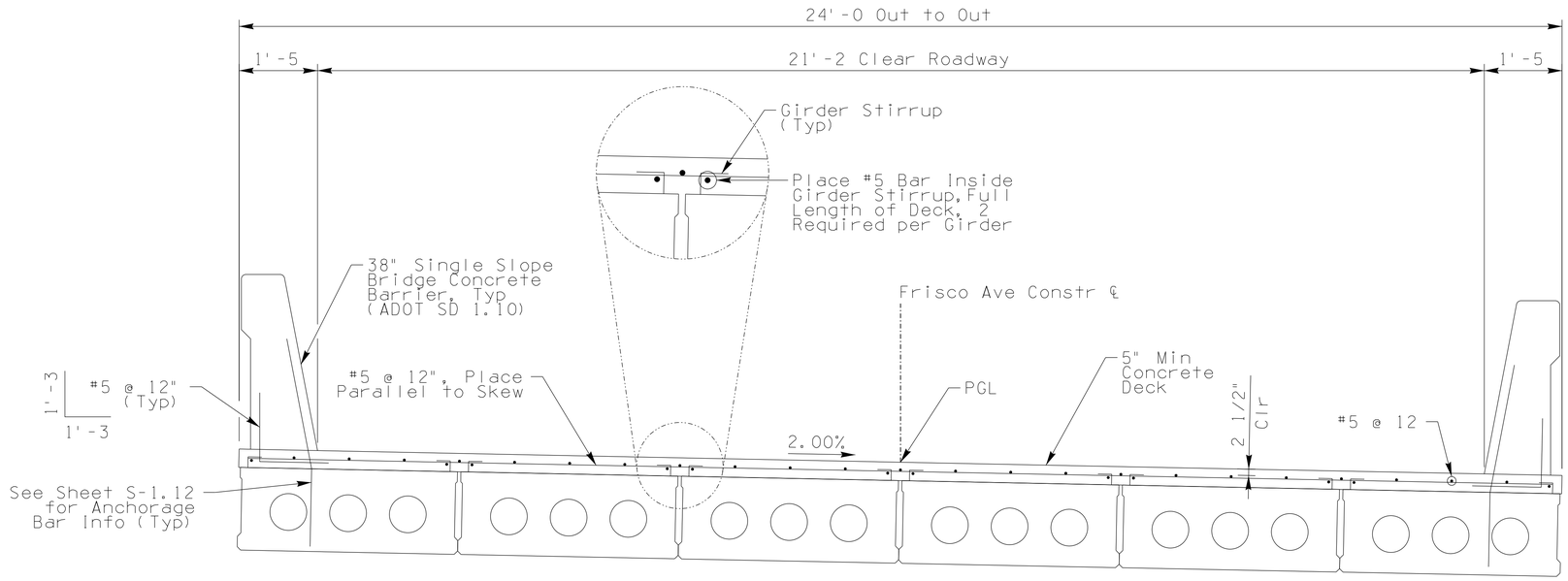
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 102+
CHASE CREEK BRIDGE
BEARING PAD DETAILS

ROUTE
MILEPOST
STRUCTURE NO. 08536

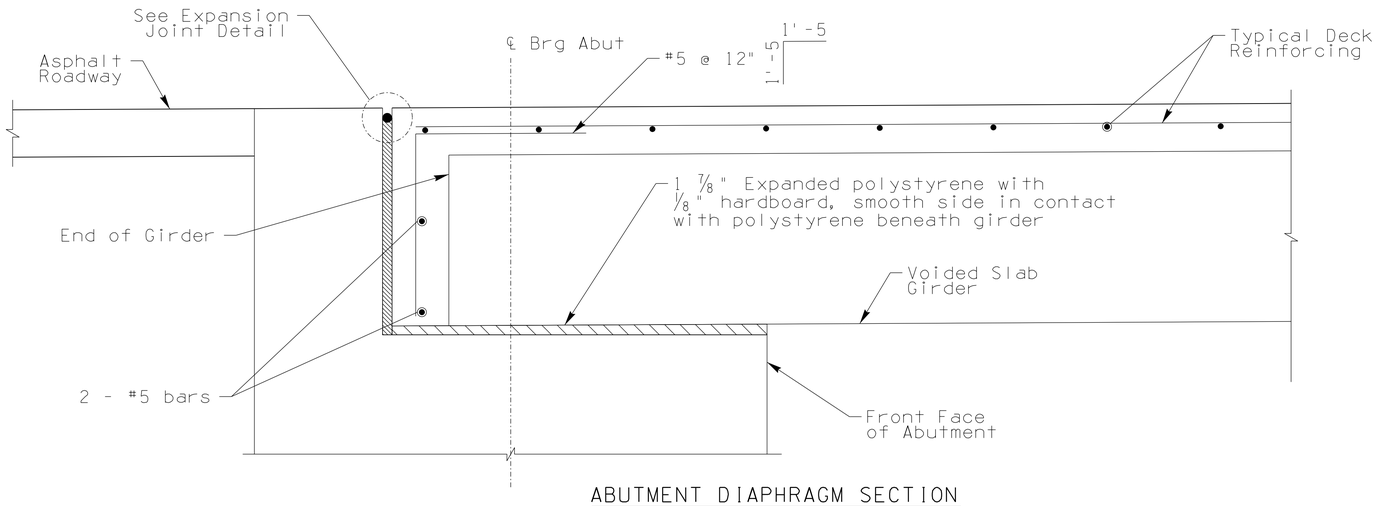
F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	27	37	

LOCATION CHASE CREEK BRIDGE
TRACS NO. T0285 01C
ADOT
DWG NO. S-1.15
___ OF ___



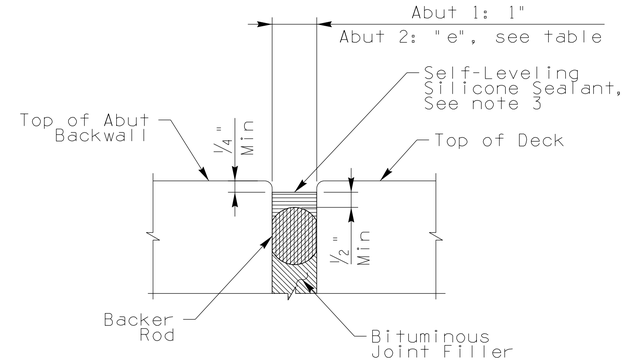
DECK SECTION
(Looking Ahead Station)
SCALE: 3/4" = 1'-0



ABUTMENT DIAPHRAGM SECTION
SCALE: 1 1/2" = 1'-0

JOINT INSTALLATION DATA TABLE	
Temp (°F) at time of installation	Opening Width "e" (in)
	Abut 2
90	1 3/8"
80	1 1/2"
70	1 1/2"
60	1 1/2"
50	1 1/2"
40	1 1/2"
30	1 5/8"
20	1 5/8"

Mean Temperature = 60° F



EXPANSION JOINT DETAIL
SCALE: None

NOTES:

1. The deck may be poured continually through the bridge. Contractor shall submit a deck pour schedule to the Engineer for approval prior to placing concrete.

2. The minimum bar lap length for #5 bar is 2'-0. Stagger adjacent laps.

3. Silicone joint sealer shall comply to the following requirements:
   Rheological Properties - Type 1:
   Pass (ASTM C639)
   Elongation (min %):
   800% (ASTM C639 Die C)
   Tensile stress at 150% elongation:
   40 psi max (ASTM D412)
   Accelerated Weathering:
   No chalking, cracking, or bond loss (ASTM C793)
   Shelf Life: 6 month min
   Durometer Hardness, Shore 00:
   40 to 80 (ASTM C661)
   Movement capability and adhesion:
   No failures (ASTM C719)

4. The cost of the expansion joint shall be included in pay item 6010005.

5. Joint opening "e" at 60°F mean temperature. Joint opening shall be adjusted according to the Joint Installation Data Table.

6. All deck and abutment diaphragm rebar shall be epoxy coated.

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 06/15/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	JAC	06/23
DRAWN	NLP	06/23
CHECKED	MCR	06/23

Horrocks.

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

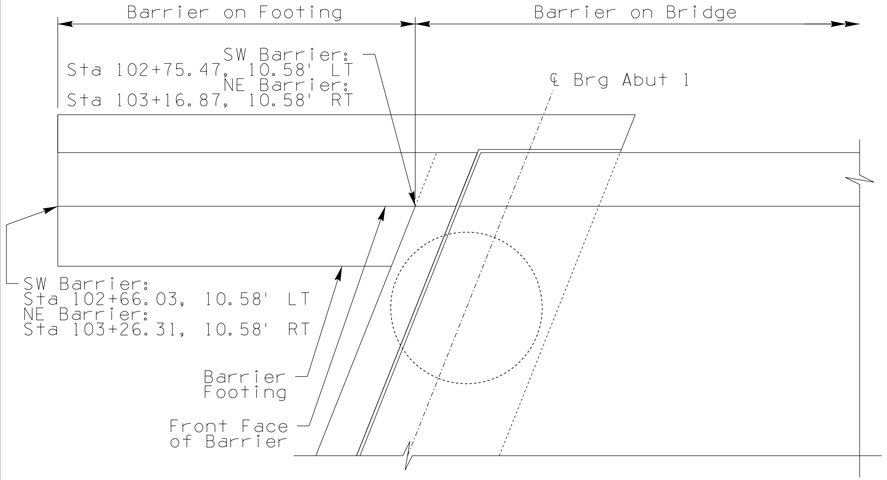
STA 102+
CHASE CREEK BRIDGE
DECK DETAILS

ROUTE
MILEPOST
STRUCTURE NO. 08536

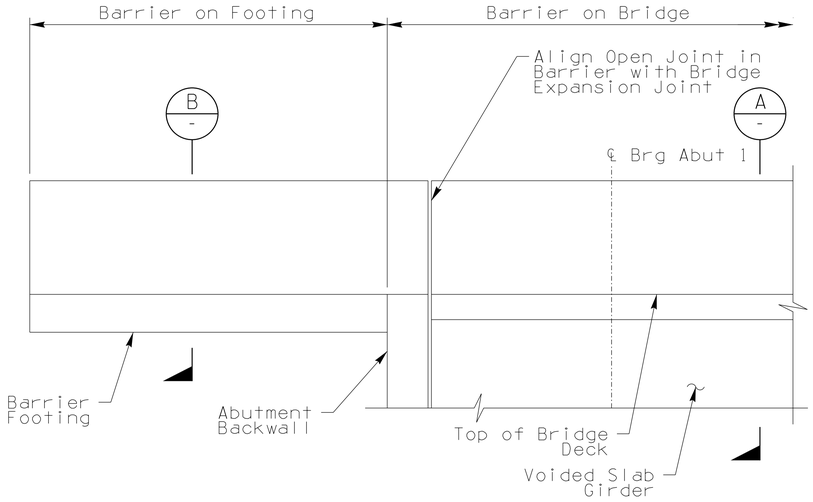
F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	28	37	

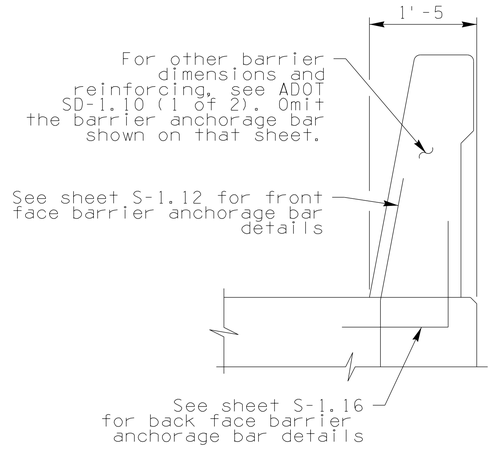
LOCATION CHASE CREEK BRIDGE
TRACS NO. T0285 01C
ADOT
DWG NO. S-1.16
___ OF ___



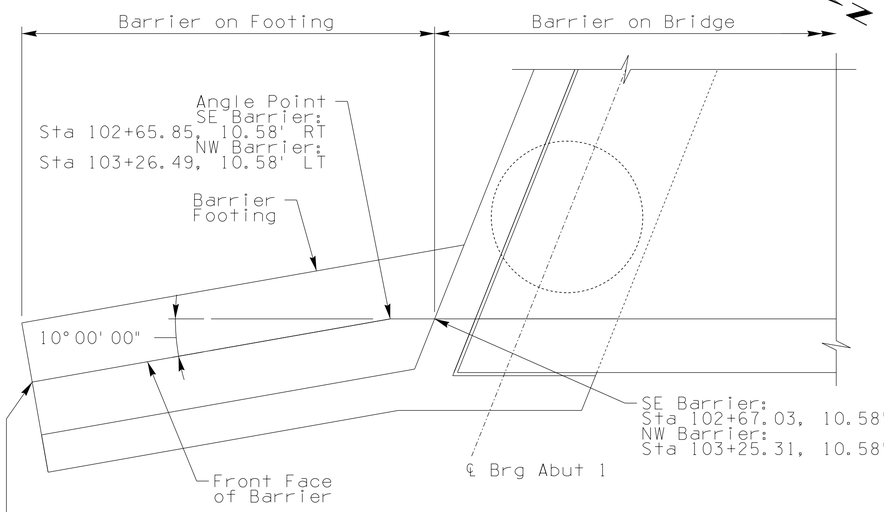
SW BARRIER PLAN
NE Barrier Similar
SCALE: ½" = 1'-0



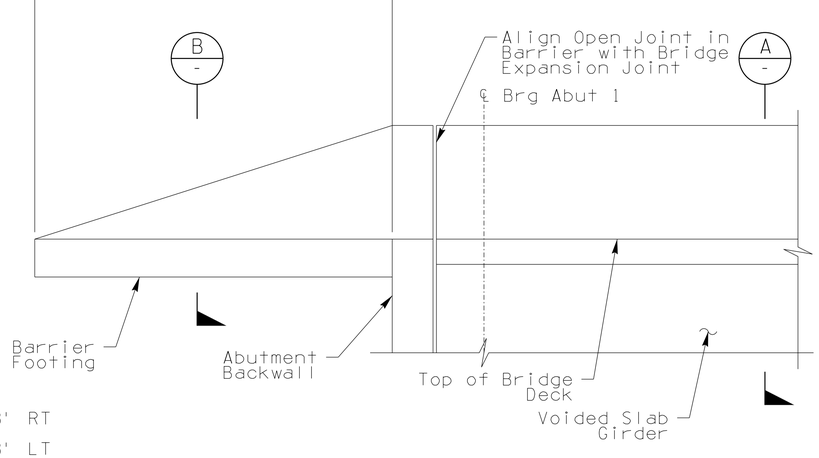
SW BARRIER ELEVATION
NE Barrier Similar
SCALE: ½" = 1'-0



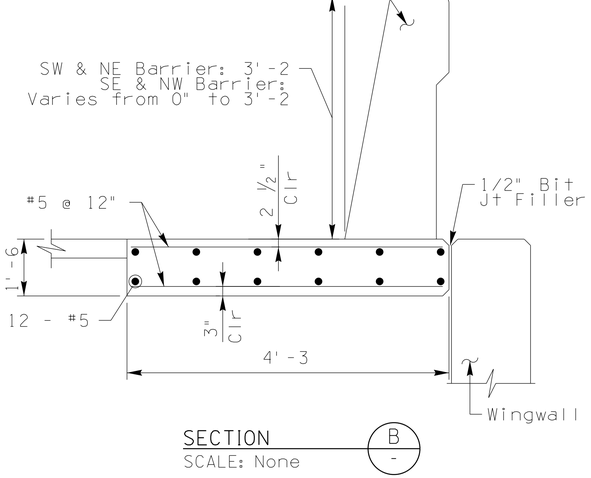
SECTION A - -
SCALE: None



SE BARRIER PLAN
NW Barrier Similar
SCALE: ½" = 1'-0



SE BARRIER ELEVATION
NW Barrier Similar
SCALE: ½" = 1'-0



SECTION B - -
SCALE: None

NOTES:

1. All Bars within the barrier and barrier anchorage bars shall be epoxy coated.
2. Barrier footing is designed using a TL-1 crash test rating.
3. Barrier on footing is paid for under item 6011150.

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 06/15/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	JAC	06/23
DRAWN	NLP	06/23
CHECKED	MCR	06/23

Horrocks.

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 102+
CHASE CREEK BRIDGE
BARRIER DETAILS

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	29	37	

LOCATION CHASE CREEK BRIDGE
TRACS NO. T0285 01C
DWG NO. S-1.17
ADOT
___ OF ___

	SCREED ELEVATIONS										
	℄ Brg Abut. #1	Span #1									℄ Brg Abut. #2
		0.1 pt	0.2 pt	0.3 pt	0.4 pt	0.5 pt	0.6 pt	0.7 pt	0.8 pt	0.9 pt	
Left Edge of Deck	3469.35	3469.34	3469.34	3469.34	3469.33	3469.32	3469.31	3469.29	3469.27	3469.25	3469.23
Left Face of Barrier	3469.32	3469.32	3469.31	3469.31	3469.30	3469.29	3469.28	3469.27	3469.25	3469.23	3469.21
℄ Girder 1	3469.31	3469.31	3469.30	3469.30	3469.29	3469.28	3469.27	3469.25	3469.24	3469.22	3469.20
℄ Girder 2	3469.23	3469.23	3469.23	3469.22	3469.22	3469.21	3469.19	3469.18	3469.16	3469.14	3469.12
℄ Girder 3	3469.16	3469.15	3469.15	3469.15	3469.14	3469.13	3469.12	3469.10	3469.08	3469.06	3469.04
Constr. ℄	3469.12	3469.12	3469.11	3469.11	3469.10	3469.09	3469.08	3469.06	3469.05	3469.03	3469.01
℄ Girder 4	3469.08	3469.08	3469.08	3469.07	3469.07	3469.06	3469.04	3469.03	3469.01	3468.99	3468.97
℄ Girder 5	3469.00	3469.00	3469.00	3469.00	3468.99	3468.98	3468.97	3468.95	3468.93	3468.91	3468.89
℄ Girder 6	3468.93	3468.93	3468.92	3468.92	3468.91	3468.90	3468.89	3468.87	3468.86	3468.84	3468.82
Right Face of Barrier	3468.92	3468.91	3468.91	3468.91	3468.90	3468.89	3468.88	3468.86	3468.85	3468.82	3468.80
Right Edge of Deck	3468.89	3468.89	3468.89	3468.88	3468.88	3468.87	3468.85	3468.84	3468.82	3468.80	3468.78

SCREED ELEVATION NOTES:

1. The Top of Erected Girder Elevation shall be measured in the field and the information provided to the Engineer for verification of the screed grade elevations prior to setting deck form work.

2. The screed elevations include adjustments to the finished grade elevations due to the dead load of the concrete deck slab, diaphragms, barriers and the effects of long term creep and loss of prestress.

3. Screed elevation data shall be used in setting screeds. Adjustments to the screed elevations, if necessary, will be determined by the Engineer after reviewing the top of erected girder elevations. Do not use finished grade elevations for setting screeds.

Registered Professional Engineer (Civil) CERTIFICATE NO. 50744 JASON A. CAROTA Date Signed 06/16/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	JAC	06/23
DRAWN	NLP	06/23
CHECKED	MCR	06/23

Horrocks.

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 102+
CHASE CREEK BRIDGE
SCREED ELEVATIONS

ROUTE

MILEPOST

STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	30	37	

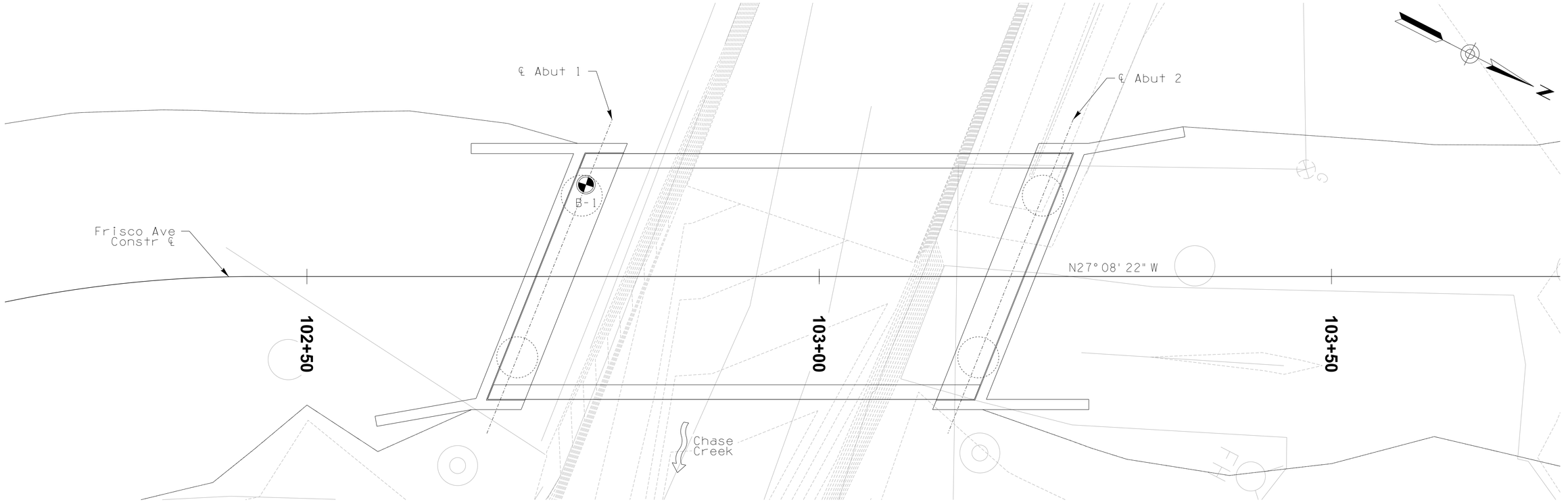
LOCATION CHASE CREEK BRIDGE

DWG NO. S-1.18

TRACS NO. T0285 01C

ADOT

____ OF ____



LOCATION PLAN
SCALE: None

GENERAL NOTES:

1. The boring log included in the bridge plans is for reference only. Contractor should refer to the Geotechnical Exploration Report for further information.

2. Groundwater is indicated herein only when found during the foundation investigation and represents that condition only on the date of the investigation. The absence of a groundwater indication at a depth or location does not constitute a representation that the groundwater will not be present during construction.

3. Borings were advanced using truck-mounted CME75 drill rig advancing 8-inch diameter hollow stem auger and HQ wireline core barrel. 3-inch diameter ring-lined, open-end sampler and 2-inch diameter split spoon sampler were driven with a 140-pound hammer dropping freely 30 inches.

4. Classification of materials is in accordance with the Unified Soil Classification System and is based upon field inspection and not to be construed to imply mechanical analysis.

LEGEND

B-1 Boring Identifier & Location

Registered Professional Engineer (Civil) CERTIFICATE NO. 25151 KEITH H. DAHLEN Date Signed 6/30/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	JH	06/23
DRAWN	NLP	06/23
CHECKED	KD	06/23

ethos ENGINEERING, LLC.

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 102+
CHASE CREEK BRIDGE
FOUNDATION DATA SHEET 1

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	31	37	

LOCATION CHASE CREEK BRIDGE

DWG NO. SF-1.01

TRACS NO. T0285 01C

ADOT

___ OF ___

Project Name:	Frisco Avenue Bridge	**Boring Number:**	**B-1**
Project Location:	Clifton, Arizona	**Boring Location:**	South Abutment
Project Number:	2021039	**Coordinates:**	33.05721° N, -109.30015° W
Logger - Firm:	M. Meza - Ethos	**Surface Elevation (feet):**	3,468
Drilling Method:	HSA - HQ Core	**Groundwater Depth (feet):**	n/a
Driller - Firm:	Eric - GSI	**Date(s):**	6/21/2022

Elev (feet)	Depth (feet)	Drill Rate (min/ft)	Sample Interval	Sample Type (& Blowcounts)	% Recovery	Rock Quality Designation (RQD)	% Fluid Recovery	Spacing of Discontinuities	Orientation of Discontinuities	Degree of Weathering	Relative Rock Hardness	Material Description
3,467	1											**Clayey to Silty Gravel with Sand (GC-GM)** Sub-Angular Gravel Well Graded Sand Low Plasticity Brown to Dark Brown Moist
3,466	2											
3,465	3											
3,464	4			S 4-4-7 (11)								
3,463	**5**											
3,462	6			R 14-11 (25)								
3,461	7											
3,460	8			A (5-10)								
3,459	9											**Sandy Silt (ML)** Trace Fine Sub-Angular Gravel Trace to Some Fine Sand Non Plastic Light Brown No Lime to Weak Lime Cementation Moist
3,458	**10**											
3,457	11			S 3-1-2 (3)								
3,456	12											
3,455	13											
3,454	14											**Silty Sand (SM)** Trace to Some Fine Sub-Angular Gravel Poorly Graded Sand Non Plastic Light Brown Moist
3,453	**15**											
3,452	16			R 17-28 (45)								
3,451	17											
3,450	18											
3,449	19											
3,448	**20**											**Silty Gravel with Sand (GP-GM)** Subangular Gravel Considerable Medium Sand Non - Plastic Grey to Brown Moist **Note: Began Coring @ 20'** Note: Considerable cobbles and some boulders below 20'
3,447	21			S - PR 50/5" (100)								
3,446	22							n/a	n/a	n/a	n/a	
3,445	23	8		HQ	30	n/a	0					
3,444	24											
3,443	**25**											

Sample Type	Drilling Operation	Discontinuities	Rock Hardness	Notes
S - SPT Spoon Sampler	NQ - Wireline Core	VW >10.0'	ES - Extremely Soft	NR - No Recovery
R - Ring Sampler	HSA - Hollow Stem Auger	W 3.0'-10.0'	VS - Very Soft	PR - Poor Recovery
A - Auger Cuttings	GB - Gearbit	MC 1.0'-3.0'	S - Soft	BKN - Broken
HQ - Wireline Core	HWT - Casing Adv. w/ Wireline GB	C 0.2'-1.0'	MH - Medium Hard	
	HQ - Wireline Core	VC 0-0.2'	H - Hard	
			VH - Very Hard	

ethos ENGINEERING, LLC.

Project Name:	Frisco Avenue Bridge	**Boring Number:**	**B-1**
Project Location:	Clifton, Arizona	**Boring Location:**	South Abutment
Project Number:	2021039	**Coordinates:**	33.05721° N, -109.30015° W
Logger - Firm:	M. Meza - Ethos	**Surface Elevation (feet):**	
Drilling Method:	HSA - HQ Core	**Groundwater Depth (feet):**	
Driller - Firm:	Eric - GSI	**Date(s):**	6/21/2022

Elev (feet)	Depth (feet)	Drill Rate (min/ft)	Sample Interval	Sample Type (& Blowcounts)	% Recovery	Rock Quality Designation (RQD)	% Fluid Recovery	Spacing of Discontinuities	Orientation of Discontinuities	Degree of Weathering	Relative Rock Hardness	Material Description
	26											**Silty Gravel with Sand (GP-GM) Cont'd.**
	27											
	28	6		HQ	15	n/a	40	n/a	n/a	n/a	n/a	
	29											
	30											
	31											**Stopped HQ Coring at 30'** **Backfilled Hole w/ Cuttings**
	32											
	33											
	34											
	35											
	36											
	37											
	38											
	39											
	40											
	41											
	42											
	43											
	44											
	45											
	46											
	47											
	48											
	49											
	50											

Sample Type	Drilling Operation	Discontinuities	Rock Hardness	Notes
S - SPT Spoon Sampler	NQ - Wireline Core	VW >10.0'	ES - Extremely Soft	NR - No Recovery
R - Ring Sampler	HSA - Hollow Stem Auger	W 3.0'-10.0'	VS - Very Soft	PR - Poor Recovery
A - Auger Cuttings	GB - Gearbit	MC 1.0'-3.0'	S - Soft	BKN - Broken
HQ - Wireline Core	HWT - Casing Adv. w/ Wireline GB	C 0.2'-1.0'	MH - Medium Hard	
	HQ - Wireline Core	VC 0-0.2'	H - Hard	
			VH - Very Hard	

ethos ENGINEERING, LLC.

Registered Professional Engineer (Civil) CERTIFICATE NO. 25151 KEITH H. DAHLEN Date Signed 6/15/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	JH	06/23
DRAWN	NLP	06/23
CHECKED	KD	06/23

ethos ENGINEERING, LLC.

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 102+
CHASE CREEK BRIDGE
FOUNDATION DATA SHEET 2

ROUTE

MILEPOST

STRUCTURE NO.
08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	32	37	

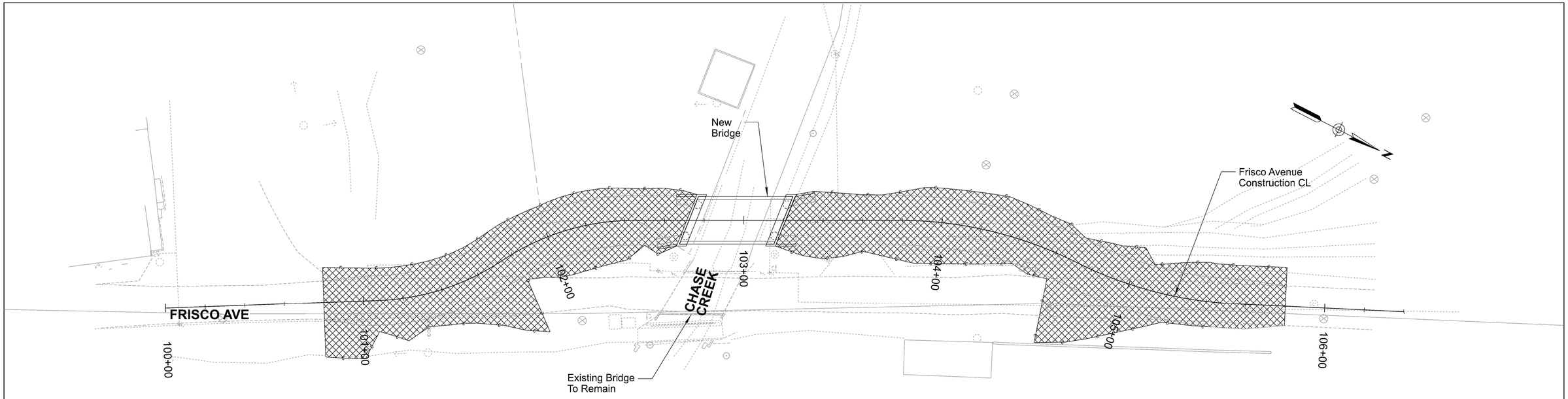
LOCATION CHASE CREEK BRIDGE

TRACS NO. T0285 01C

ADOT

DWG NO. SF-1.02

____ OF ____



DISTURBED AREA

	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

Horrocks.

24421
RUSSELL E.
MOORE
Date Signed 06/16/23
ARIZONA, U.S.A.
Expires 09/30/2024

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

LIMITS OF DISTURBANCE

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	33	37	

LOCATION CHASE CREEK BRIDGE

DWG NO. D-01.01

TRACS NO. T0285 01C

ADOT

____ OF____

EROSION CONTROL NOTES:

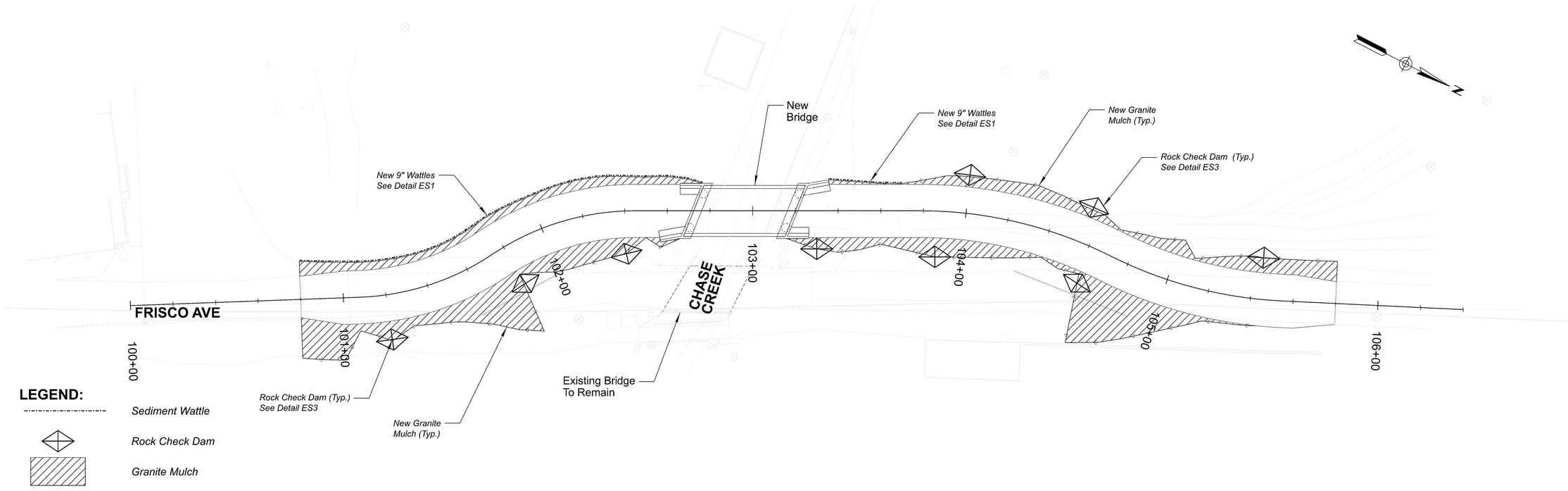
1. *All erosion/sediment control installations shall be installed per these approved plans and shall comply with all applicable specifications. Any deviations to the approved plans require Engineer approval.*
2. *The contractor shall verify the limits of soil disturbance throughout the project and bring discrepancies immediately to the attention of the Engineer.*
3. *All work shall be confined within the disturbance limits as shown on the plans.*
4. *The contractor shall be responsible for installing any required erosion/sediment control measures for any impacts within the project areas that may not be shown on these project plans, such as any stockpiling or staging areas, at no additional cost to the Department.*
5. *The above inspections require a minimum of 48 hours prior notification to the Engineer.*
6. *Construction entrance/exit gravel pad locations shall be determined by the contractor and approved by the Engineer.*
7. *Make necessary field adjustments to ensure the layout/ installation of Decomposed Granite and Granite Mulch, as well as erosion/sediment control measures are accomplished according to the actual limits of soil/ground disturbance as approved by the Engineer.*
8. *Make field adjustments to ensure rock check dams are symmetrical installed across the centerline of the ditch. Correct the locations of rock check dams as per the direction of the Engineer.*

PROJECT INFORMATION:

Chase Creek Bridge, Str # 08536

APPROXIMATE EROSION/SEDIMENT CONTROL QUANTITIES

QTY	UNIT	AS-BUILT	ITEM
650	SY		8030092 GRANITE MULCH (1-1/4 INCH MINUS)
63	CY		8101005 EROSION CONTROL (CHECK DAM)(GRADATION C ROCK MULCH)
340	SY		8101018 EROSION CONTROL (STABILIZED CONSTRUCTION ENTRANCE/EXIT GRAVEL PAD)
300	LF		8101021 EROSION CONTROL (WATTLES)(9")



	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

24421 RUSSELL E. MOORE — Date Signed 06/16/23 — ARIZONA, U.S.A. — Expires 09/30/2024

Horrocks.

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

EROSION CONTROL PLAN

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	34	37	

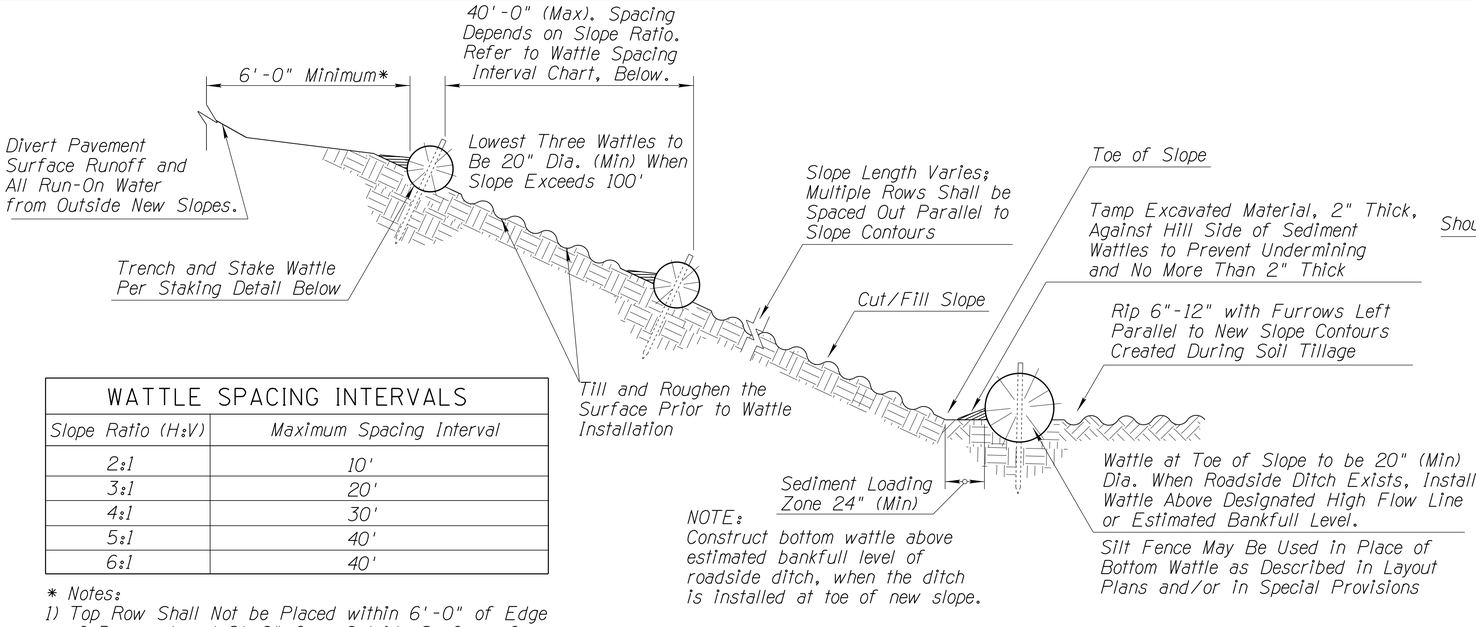
LOCATION CHASE CREEK BRIDGE

TRACS NO. T0285 01C

ADOT

DWG NO. E-01.00

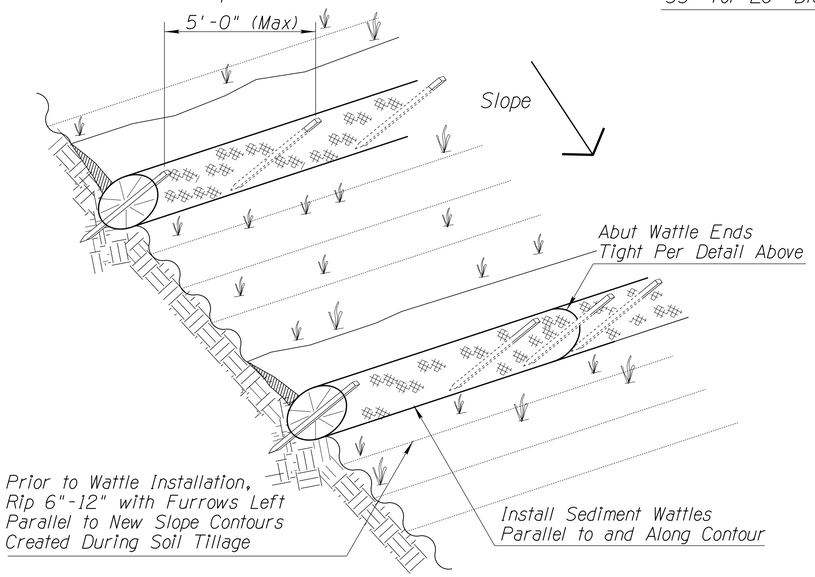
____ OF ____



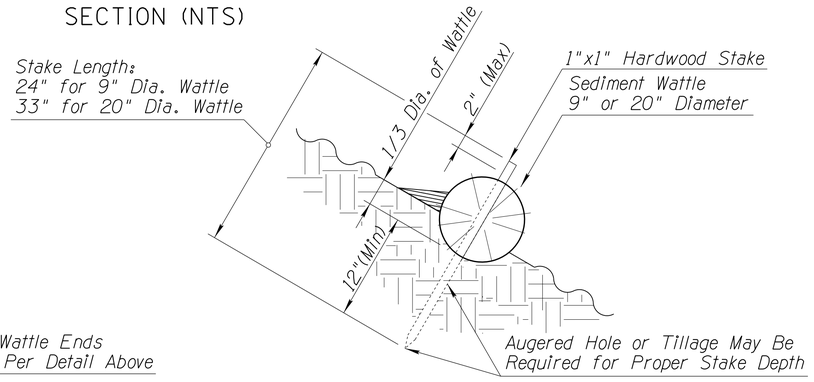
SECTION (NTS)

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

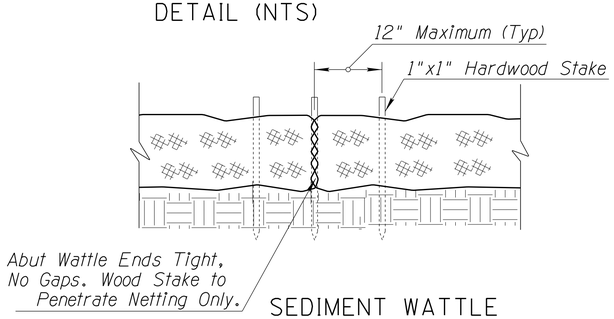
* Notes:
1) Top Row Shall Not be Placed within 6'-0" of Edge of Pavement and 9'-0" from Outside Surface of Barrier.
2) For erosive soils, place rows of wattles closer together.
3) For soils with low erosive potential, place rows of wattles further apart.



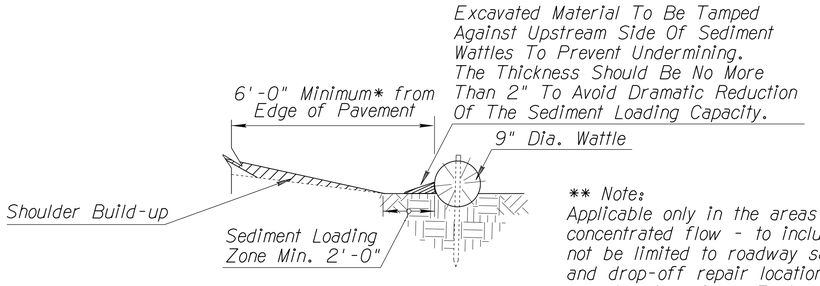
SEDIMENT WATTLE LAYOUT (NTS)



SEDIMENT WATTLE STAKING DETAIL (NTS)



SEDIMENT WATTLE OVERLAP (NTS)



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

NEW SHOULDER BUILDUP ** PROTECTION SECTION (NTS)

NOTES:

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

DETAIL ES1

SEDIMENT WATTLE

CERTIFICATE NO. 24421 RUSSELL E. MOORE Date Signed 06/16/23 ARIZONA, U.S.A. Expires 09/30/2024

	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

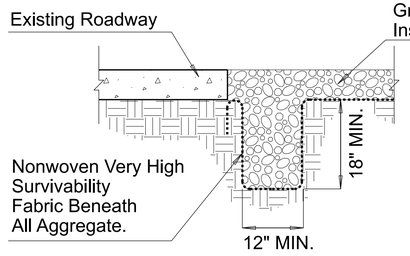
Horrocks.

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

STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS

ROUTE							
MILEPOST	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
STRUCTURE NO. 08536		ARIZ.	0000 GE CLF	CLF-0(202)T	35	37	
	LOCATION CHASE CREEK BRIDGE						DWG NO. E-01.01
	TRACS NO. T0285 01C						____ OF ____

ADOT



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 CM/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 CM/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 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 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 CM/BMP immediately if it is causing flooding and/or affecting roadway safety.
6. When paid separately, the Stabilized Construction Entrance/Exit Gravel Pad CM/BMP's pay/bid item shall include all materials used for this CM/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 CM/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

Registered Professional Engineer
Certificate No.
24421
RUSSELL E.
MOORE
Date Signed 09/30/2022
ARIZONA U.S.A.
Expires 09/30/2024

	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

Horrocks.

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

STORMWATER QUALITY PROTECTION &
EROSION/SEDIMENT CONTROL DETAILS

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	36	37	

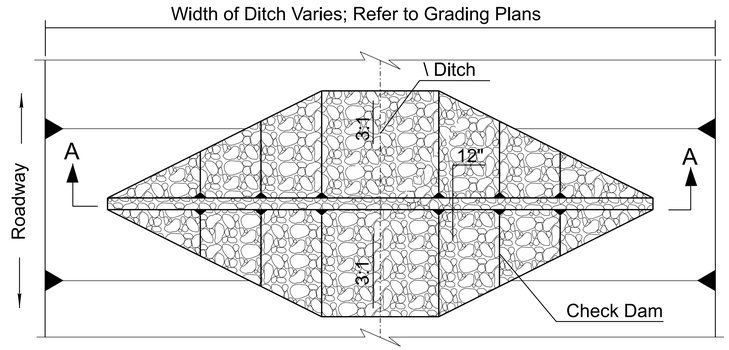
LOCATION CHASE CREEK BRIDGE

TRACS NO. T0285 01C

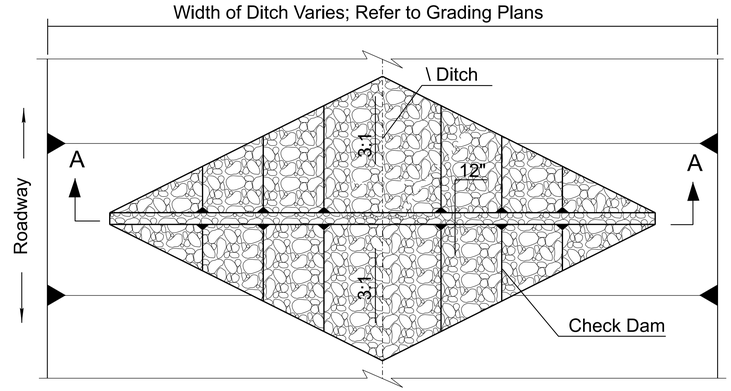
ADOT

DWG NO. E-01.02

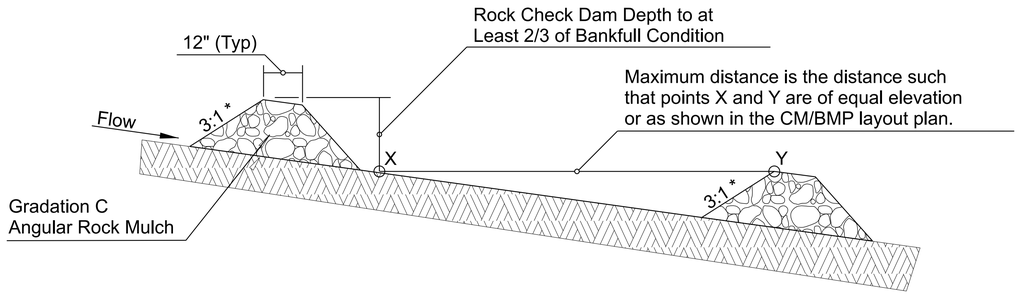
____ OF ____



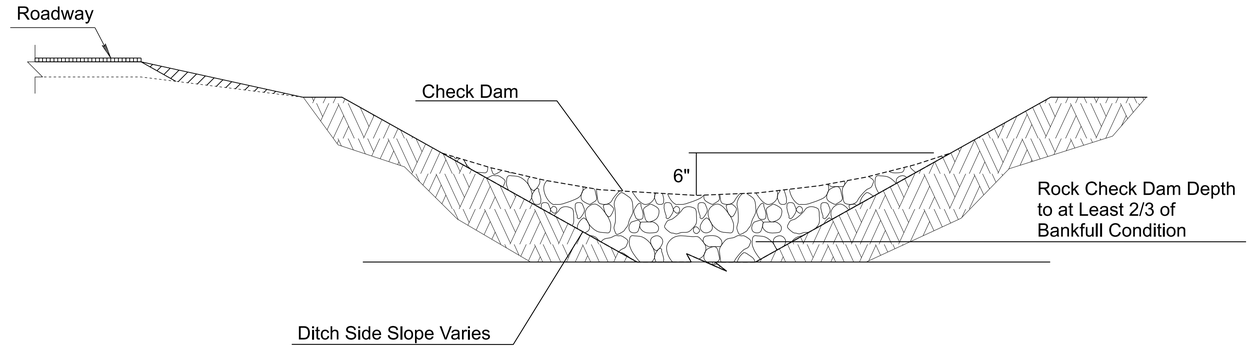
TRAPEZOIDAL DITCH PLAN (NTS)



V-DITCH PLAN (NTS)



ELEVATION ALONG DITCH SLOPE (NTS)



SECTION A-A
TRAPEZOIDAL- OR V-DITCH
(NTS)

NOTES:

1. Construct Rock Check Dams with angular-shaped Gradation C Rock Mulch as defined in Section 810-2.03 of the Specifications and these special provisions. Natural river-run materials such as rounded river rocks/cobblestones and pebbles are NOT acceptable.
2. * Slope shall be 1(V) : 6(H) or flatter if Check Dam is within the traffic clear zone/recovery areas as defined in ADOT Roadway Design Guidelines (303.2 to 303.3 Roadside Recovery Area).
3. Make field adjustments of sizing and spacing of Rock Check Dams as necessary for traffic safety as well as proper functioning of the drainage facilities.
4. Flatten and re-grade Rock Check Dams to the finished grade, level within the ditch, as soon as practicable for Final Stabilization.
5. Make field adjustments and corrections of Rock Check Dam CM/BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
6. Make field adjustments to ensure the top of the Rock Check Dam is approximately 2/3 height of the estimated ditch bankfull level.
7. When paid separately, the Rock Check Dam CM/BMP pay/bid item shall include all materials used for this CM/BMP: all ground preparation, furnishing, installing, maintenance, flattening/grading back to the finished grade, as well as returning the area to an acceptable condition as approved by the Engineer.
8. Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.

DETAIL ES3

ROCK CHECK DAM

	NAME	DATE
DESIGN	HS	06/23
DRAWN	HS	06/23
CHECKED	SBN	06/23

Registered Professional Engineer — 24421 — RUSSELL E. MOORE — Date Signed 06/30/23 — ARIZONA, U.S.A. — Expires 09/30/2024

Horrocks.

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

STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS

ROUTE
MILEPOST
STRUCTURE NO. 08536

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GE CLF	CLF-0(202)T	37	37	

LOCATION: CHASE CREEK BRIDGE
TRACS NO. T0285 01C
DWG NO. E-01.03
ADOT
____ OF ____