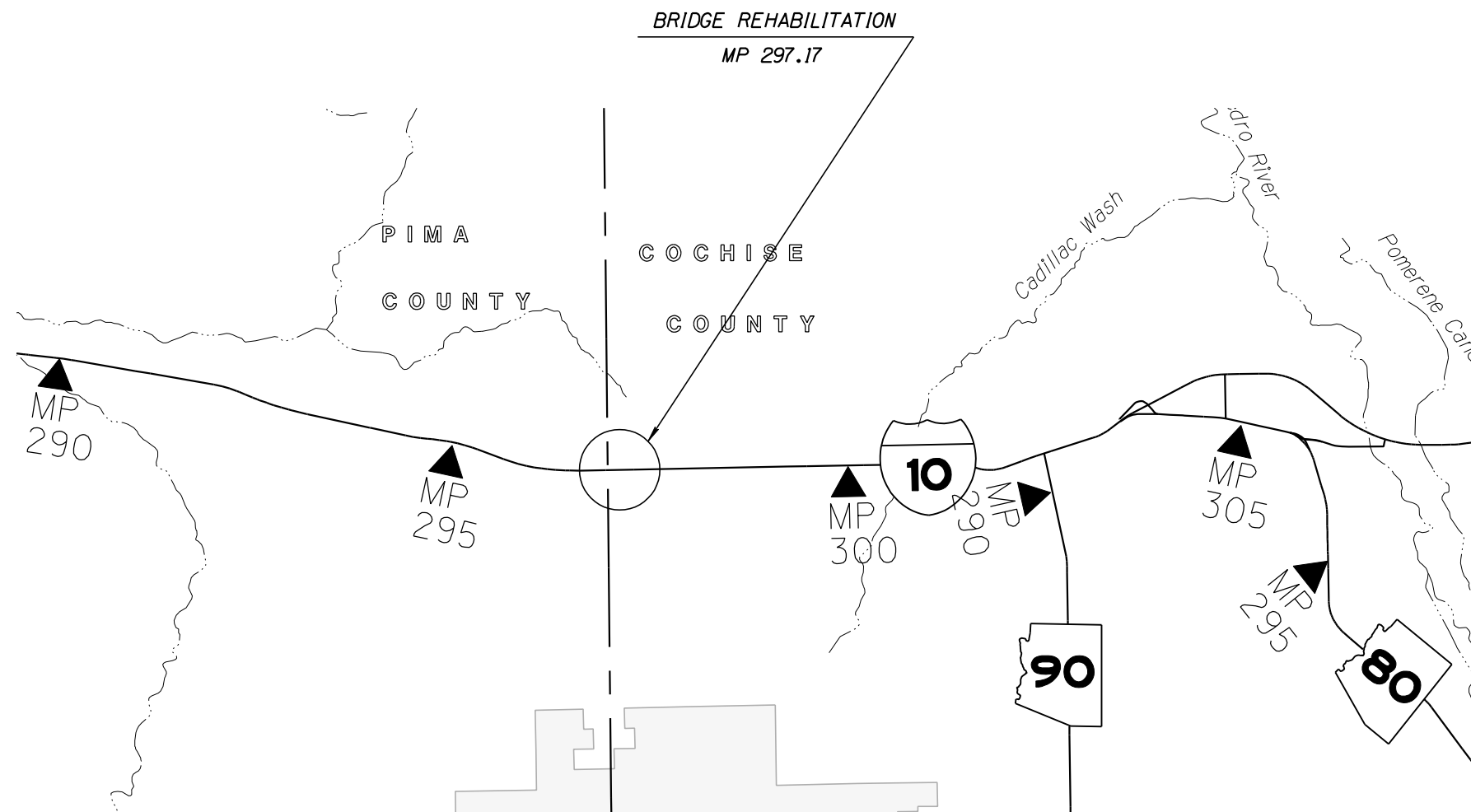
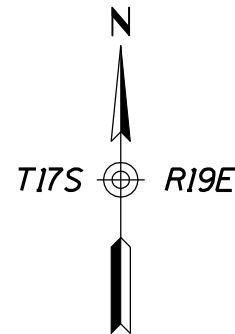
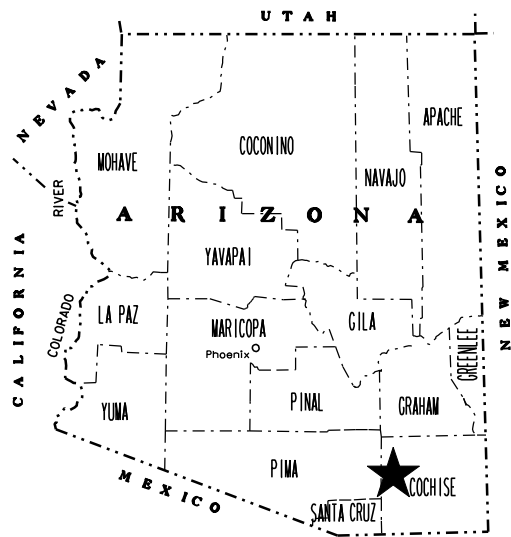


STATE OF ARIZONA
 DEPARTMENT OF TRANSPORTATION
 INTERMODAL TRANSPORTATION DIVISION
 PROJECT PLANS



STATE HIGHWAY
 TUCSON-BENSON HIGHWAY
 INTERSTATE 10



Constructed by:

VASTCO, INC
 Construction Company

11-24-2011
 Completion Date

Red-Lines by:

Jackie Watkins, PE/ADOT
 Construction Administrator Name & Company

01-20-2012
 Completion Date

As-Built by:

Navaphan Viboolmate, PE/ADOT
 As-Built Designer Name & Company

03-07-2012
 Completion Date

MESCAL ROAD TI UP #0517
PROJECT NO. 010 CH 297 H8336 01 C
FEDERAL AID NO. ER-010-E(211)A

ARIZONA DEPARTMENT OF TRANSPORTATION
 INTERMODAL TRANSPORTATION DIVISION
 FLOYD ROEHRICH, JR., P.E., STATE ENGINEER

ADOT STANDARD DRAWINGS
C STANDARDS

ISSUE OR REVISION DATE	STANDARD NO.	SUBJECT
5/07	C-01.10	SYMBOL LEGEND (4 SHEETS)
5/07	C-01.30	GENERAL ABBREVIATIONS (3 SHEETS)
5/07	C-02.10	SLOPES, RURAL DIVIDED HIGHWAYS
5/07	C-02.20	SLOPES, RURAL UNDIVIDED AND FRINGE-URBAN HIGHWAYS
4/10	C-02.30	SLOPES, MISCELLANEOUS ROADWAYS
5/07	C-03.10 SH 1	DITCHES, CHANNELS, DIKES AND BERMS, DITCHES AND CHANNELS
5/07	C-03.10 SH 2	DITCHES, CHANNELS, DIKES AND BERMS, DIKES
5/07	C-03.10 SH 3	DITCHES, CHANNELS, DIKES AND BERMS, DITCH DIKE
5/07	C-03.10 SH 4	DITCHES, CHANNELS, DIKES AND BERMS, PIPE BERMS
5/07	C-03.10 SH 5	DITCHES, CHANNELS, DIKES AND BERMS, HEADWALL BERMS
5/07	C-04.10 SH 1	SPILLWAY, EMBANKMENT SINGLE INLET
5/07	C-04.10 SH 2	SPILLWAY, EMBANKMENT DOUBLE INLET
5/07	C-04.20 SH 1	DOWNDRAIN, EMBANKMENT SINGLE INLET
5/07	C-04.20 SH 2	DOWNDRAIN, EMBANKMENT DOUBLE INLET
5/07	C-04.30	SPILLWAY LENGTH TABLE
5/07	C-04.40	DOWNDRAIN LENGTH TABLE
5/07	C-04.50	DOWNDRAIN ENERGY DISSIPATOR
5/07	C-05.10	CURB & GUTTER, CURB, GUTTER
5/07	C-05.12 SH 1	CURB & GUTTER TRANSITIONS
5/07	C-05.12 SH 2	CURB & GUTTER TRANSITIONS
5/07	C-05.12 SH 3	CURB AND GUTTER TRANSITIONS
5/07	C-05.20 SH 1	CONCRETE DRIVEWAYS & SIDEWALKS, DRIVEWAYS
5/07	C-05.20 SH 2	CONCRETE DRIVEWAYS & SIDEWALKS, SIDEWALKS
5/07	C-05.30 SH 1	SIDEWALK RAMP, TYPE A
5/07	C-05.30 SH 2	SIDEWALK RAMP, TYPE B
5/07	C-05.30 SH 3	SIDEWALK RAMP, TYPE C
5/07	C-05.30 SH 4	SIDEWALK RAMP, TYPE D
5/07	C-05.30 SH 5	SIDEWALK RAMP, TYPE E
5/07	C-05.30 SH 6	SIDEWALK RAMP, TYPE F
5/07	C-05.30 SH 7	SIDEWALK RAMP, DETECTABLE WARNING STRIP
5/07	C-05.40	MEDIAN PAVING AND NOSE TAPER
5/07	C-05.50	CONCRETE BUS BAY
5/07	C-06.10 SH 1	DRIVEWAY & TURNOUT LAYOUTS
5/07	C-06.10 SH 2	DRIVEWAY & TURNOUT LAYOUTS
5/07	C-07.01 SH 1	PCCP JOINTS
5/07	C-07.01 SH 2	PCCP JOINTS
11/07	C-07.02	LOAD TRANSFER DOWEL ASSEMBLY
5/07	C-07.03 SH 1	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/07	C-07.03 SH 2	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/07	C-07.03 SH 3	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/07	C-07.03 SH 4	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/07	C-07.03 SH 5	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/07	C-07.03 SH 6	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/07	C-07.03 SH 7	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/07	C-07.03 SH 8	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/07	C-07.04 SH 1	PCCP JOINT LOCATIONS, PARALLEL TYPE ENTRANCE RAMP WITH AUXILIARY LANE
5/07	C-07.04 SH 2	PCCP JOINT LOCATIONS, PARALLEL TYPE EXIT RAMP WITH AUXILIARY LANE
5/07	C-07.04 SH 3	PCCP JOINT LOCATIONS, TAPER TYPE ENTRANCE RAMP
5/07	C-07.04 SH 4	PCCP JOINT LOCATIONS, TAPER TYPE EXIT RAMP
5/10	C-07.04 SH 5	PCCP JOINT LOCATIONS, CROSSROAD AND RAMP TERMINI
5/07	C-07.06	TRENCH BACKFILL AND PAVEMENT REPLACEMENT
5/10	C-08.20	PAVED GORE AREA
5/07	C-10.00	GUARDRAIL MEASUREMENT LIMITS
5/07	C-10.01	GUARDRAIL INSTALLATION, TYPE A AND REFLECTOR TAB
5/07	C-10.02	GUARDRAIL INSTALLATION, TYPE B AND REFLECTOR TAB
5/07	C-10.03	W-BEAM GUARDRAIL, G4(1W) AND G4(2W), BLOCKED-OUT TIMBER POST
5/07	C-10.04	W-BEAM GUARDRAIL, G4(1S), BLOCKED-OUT STEEL POST
5/07	C-10.05 SH 1	W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER
5/07	C-10.05 SH 2	W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER
11/09	C-10.06 SH 1	W-BEAM GUARDRAIL, NESTED, TYPES 1 AND 2
11/09	C-10.06 SH 2	W-BEAM GUARDRAIL, NESTED, TYPE 3
5/07	C-10.07 SH 1	W-BEAM GUARDRAIL, BOLTED ANCHOR
5/07	C-10.07 SH 2	W-BEAM GUARDRAIL, BOLTED ANCHOR
5/07	C-10.08	W-BEAM GUARDRAIL, END ANCHOR
5/07	C-10.20	THREE-BEAM GUARDRAIL, G9, BLOCKED-OUT STEEL POST
5/07	C-10.30 SH 1	GUARDRAIL TRANSITION, THREE BEAM TO CONCRETE HALF BARRIER, 32" TYPE 'F'
5/07	C-10.30 SH 2	GUARDRAIL TRANSITION, THREE BEAM TO CONCRETE HALF BARRIER, 32" TYPE 'F'
5/07	C-10.40	CONCRETE MEDIAN BARRIER, 32" TYPE 'F', CAST-IN-PLACE
5/07	C-10.41	CONCRETE MEDIAN BARRIER, 42" TYPE 'F', CAST-IN-PLACE
5/07	C-10.42 SH 1	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/07	C-10.42 SH 2	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/07	C-10.42 SH 3	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/07	C-10.50 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F', CAST-IN-PLACE
5/07	C-10.50 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F', PRECAST
5/07	C-10.51	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH SIDEWALK
5/07	C-10.52	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH GUTTER
5/07	C-10.53	CONCRETE HALF BARRIER, 42" TYPE 'F' WITH GUTTER
5/07	C-10.54 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, CAST-IN-PLACE
5/07	C-10.54 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, PRECAST
5/07	C-10.54 SH 3	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, LAYOUT
5/07	C-10.55 SH 1	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, CAST-IN-PLACE
5/07	C-10.55 SH 2	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, PRECAST
5/07	C-10.55 SH 3	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, LAYOUT
5/07	C-10.70 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/07	C-10.70 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/07	C-10.70 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/07	C-10.71 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
5/07	C-10.71 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
5/07	C-10.72 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/07	C-10.72 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/07	C-10.72 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS

ISSUE OR REVISION DATE	STANDARD NO.	SUBJECT
5/07	C-10.73 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
5/07	C-10.73 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
5/07	C-10.74	CONCRETE HALF-BARRIER TRANSITION, 42" TO 32" TYPE 'F'
5/07	C-10.75 SH 1	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F', TANGENT DEPARTURE TYPE 1
5/07	C-10.75 SH 2	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F', TANGENT DEPARTURE TYPE 2
5/07	C-10.76	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' AT RADIUS, 32" TO 0"
5/07	C-10.77	CONCRETE HALF-BARRIER TRANSITION, END TERMINAL CURB AND GUTTER
5/07	C-11.10 SH 1	ROADWAY CATTLE GUARD
5/07	C-11.10 SH 2	ROADWAY CATTLE GUARD
5/07	C-11.10 SH 3	ROADWAY CATTLE GUARD
5/07	C-11.10 SH 4	ROADWAY CATTLE GUARD
5/07	C-11.20	CATTLE GUARD, DRAINAGE
5/07	C-12.10 SH 1	FENCE, WOVEN WIRE
5/07	C-12.10 SH 2	FENCE, BARBED WIRE
5/07	C-12.10 SH 3	FENCE, TYPES 1 AND 2 GATES, FLOOD GATE
5/07	C-12.10 SH 4	FENCE, FLOOD GATE INSTALLATION
5/07	C-12.10 SH 5	FENCE, MISCELLANEOUS DETAILS
5/07	C-12.20 SH 1	FENCE, CHAIN LINK, TYPE 1
5/07	C-12.20 SH 2	FENCE, CHAIN LINK, TYPE 2
5/07	C-12.20 SH 3	FENCE, CHAIN LINK, GATES
5/07	C-12.30 SH 1	FENCE, CHAIN LINK CABLE BARRIER
5/07	C-12.30 SH 2	FENCE, CHAIN LINK CABLE BARRIER
5/07	C-12.30 SH 3	FENCE, CHAIN LINK CABLE BARRIER
5/07	C-13.10 SH 1	PIPE CULVERT INSTALLATION
5/07	C-13.10 SH 2	PIPE CULVERT INSTALLATION
5/07	C-13.15	TYPICAL PIPE INSTALLATION
5/07	C-13.20	PIPE, REINFORCED CONCRETE END SECTION
5/07	C-13.25	PIPE, CORRUGATED METAL END SECTION
5/07	C-13.30	PIPE AND PIPE ARCH, CORRUGATED METAL, CONCRETE INVERT PAVING
5/07	C-13.55	PIPE, CATTLE-VEHICLE PASS, MITERED END TREATMENT
5/07	C-13.60	SLOTTED DRAIN DETAILS
5/07	C-13.65	SLOTTED DRAIN INSTALLATION DETAILS
5/07	C-13.70	STORM DRAIN CONNECTION DETAILS
5/07	C-13.75	STORM DRAIN OUTLET BARRIER GATE
5/07	C-13.76	STORM DRAIN OUTLET AND STORM DRAIN PLUG
5/07	C-13.80	PIPE COLLAR DETAILS
5/07	C-15.10	CATCH BASIN, TYPE 1
5/07	C-15.20 SH 1	CATCH BASIN, TYPE 3
5/07	C-15.20 SH 2	CATCH BASIN, TYPE 3
5/07	C-15.20 SH 3	CATCH BASIN, ACCESS FRAME AND COVER DETAILS
5/07	C-15.30	CATCH BASIN, TYPE 4
5/07	C-15.40 SH 1	CATCH BASIN, TYPE 5
5/07	C-15.40 SH 2	CATCH BASIN, TYPE 5
5/07	C-15.50	CATCH BASIN, FRAME AND GRATE
5/07	C-15.70 SH 1	CATCH BASIN, MISCELLANEOUS DETAILS
5/07	C-15.70 SH 2	CATCH BASIN, MISCELLANEOUS DETAILS
5/07	C-15.75	CATCH BASIN, DROP INLET
5/07	C-15.80	CATCH BASIN, FLUSH
5/07	C-15.81	CATCH BASIN, SIDE SLOPE
5/07	C-15.90	CATCH BASIN, MEDIAN DIKE, PRECAST
5/07	C-15.91 SH 1	FREEWAY CATCH BASIN DETAILS
5/07	C-15.91 SH 2	FREEWAY CATCH BASIN DETAILS
5/07	C-15.92 SH 1	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/07	C-15.92 SH 2	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/07	C-16.40	IRRIGATION SLEEVES
5/07	C-17.10	RAIL BANK PROTECTION FOR DRAINAGEWAYS, TYPES 1, 2 & 3
5/07	C-17.15	RAIL BANK PROTECTION AT ABUTMENTS, TYPES 4, 5 & 6
5/07	C-17.20	BANK PROTECTION FOR DRAINAGEWAYS, TYPES 7, 8 & 9
5/07	C-18.10 SH 1	MANHOLE, RISER DETAILS
5/07	C-18.10 SH 2	MANHOLE, BASE DETAILS, NORMAL INSTALLATION
5/07	C-18.10 SH 3	MANHOLE, FRAME AND COVER DETAILS
5/07	C-19.10 SH 1	FORD, CONCRETE WALLS
5/07	C-19.10 SH 2	FORD, TYPES 1 AND 2
11/07	C-21.10	SURVEY MONUMENT FRAME AND COVER
11/07	C-21.20	SURVEY MARKER

REV. 11/07/07

ADOT STANDARD DRAWINGS			
REVISION DATES and STANDARD NO.'s REVIEW			
CONSTRUCTION Standards	NAME	DATE	
010 CH 297 H8336 01C	NAV	04/19/2011	
AS BUILT DATA	FEDERAL AID NO. ER-010-E(211)A	AS BUILT DATE	2 OF 55

ADOT STANDARD DRAWINGS
 TRAFFIC SIGNING & MARKING STANDARDS
 EFFECTIVE OCTOBER 2010

SUBJECT:

SUBJECT:

REVISION	STANDARD	SIGNING & MARKING DETAILS
2/02	M-1	CURB MARKINGS FOR RAISED MEDIAN & ISLANDS
2/04	M-2 SHT 1	INTERSECTION STRIPING
2/02	M-2 SHT 2	INTERSECTION STRIPING
2/02	M-2 SHT 3	CENTERLINE & REVERSE CURVE DETAILS
2/02	M-3	STRIPING AND DELINEATION FOR FREEWAY TERMINALS
10/10	M-4	PASSING LANE STRIPING DETAILS
2/02	M-5	RAILROAD PAVEMENT MARKINGS
2/02	M-6	WORD MARKINGS
2/02	M-7	PAVEMENT LETTERS
2/02	M-8	PAVEMENT LETTERS
2/02	M-9	PAVEMENT NUMBERS
9/08	M-10 SHT 1	PAVEMENT MARKING SYMBOLS
9/08	M-10 SHT 2	PAVEMENT MARKING SYMBOLS
9/08	M-10 SHT 3	PAVEMENT MARKING SYMBOLS
3/05	M-11	TURN LANE PAVEMENT MARKINGS
10/10	M-12	FREEWAY PAVEMENT ARROWS
2/02	M-13	PREFERENTIAL LANE PAVEMENT MARKINGS
1/10	M-14	STRIPING AND DELINEATION FOR TRUCK ESCAPE RAMPS
1/10	M-15 SHT 1	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - TAPERED ACCELERATION LANE
1/10	M-15 SHT 2	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE
10/10	M-15 SHT 3	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE WITH HOV BYPASS
1/10	M-16 SHT 1	PAVEMENT MARKING FOR FREEWAY EXIT RAMPS - TAPERED DECELERATION LANE
1/10	M-16 SHT 2	PAVEMENT MARKING FOR FREEWAY EXIT RAMP - PARALLEL DECELERATION LANE
1/10	M-17	FREEWAY LANE DROP PAVEMENT MARKINGS
6/08	M-18	RECESSED PAVEMENT MARKER DETAILS
6/08	M-19 SHT 1	RAISED PAVEMENT MARKER PLAN LEGEND
6/08	M-19 SHT 2	NON-REFLECTIVE RAISED PAVEMENT MARKER DETAILS
6/08	M-19 SHT 3	RETRO-REFLECTIVE RAISED PAVEMENT MARKER DETAILS
6/08	M-19 SHT 4	RETRO-REFLECTIVE RAISED PAVEMENT MARKER DETAILS
6/08	M-19 SHT 5	PAVEMENT MARKING DETAILS FOR UNDIVIDED HIGHWAYS
6/08	M-19 SHT 6	SERIES 40 RETRO-REFLECTIVE RAISED PAVEMENT MARKERS (RRPM) FOR UNDIVIDED HIGHWAYS
6/08	M-19 SHT 7	SERIES 80 RETRO-REFLECTIVE RAISED PAVEMENT MARKERS (RRPM) FOR UNDIVIDED HIGHWAYS
6/08	M-19 SHT 8	TYPICAL MARKING DETAILS FOR EDGELINE PAVEMENT MARKERS
6/08	M-19 SHT 9	TYPICAL MARKING DETAILS FOR LANE DROP & INTERSECTION GUIDE STRIPING
6/08	M-19 SHT 10	PAVEMENT MARKING CROSS-SECTION DETAILS FOR HIGHWAYS
2/02	M-20 SHTS 1 & 2	CHIP SEAL MARKER USAGE FOR TEMPORARY MARKERS
10/10	M-21	TRANSVERSE RUMBLE STRIP DETAILS
9/08	M-22 SHT 1	CONTINUOUS LONGITUDINAL RUMBLE STRIP GROOVE, PATTERN & LOCATION DETAILS
9/08	M-22 SHT 2	LONGITUDINAL RUMBLE STRIP EXCEPTION DETAILS
12/08	M-23 SHTS 1 & 2	OBJECT MARKER DETAILS
5/03	M-24	OBJECT MARKER PLACEMENT DETAILS
1/10	M-26 SHT 1	ROADWAY DELINEATOR PLACEMENT
1/10	M-26 SHT 2	ROADWAY DELINEATOR PLACEMENT
1/10	M-26 SHT 3	INTERCHANGE DELINEATOR SPACING
10/10	M-27	DELINEATION DETAILS FOR MEDIAN CROSSOVERS
2/02	M-28	CURVE TREATMENT - CHEVRONS
9/06	M-29	OFF-MAINLINE REFERENCE MARKER LOCATION DETAIL
11/04	M-30	OFF-MAINLINE REFERENCE MARKER DETAILS
2/04	M-31	SNOW MARKER DETAILS
5/03	M-32	BRIDGE AND BARRIER MARKER DETAILS
5/03	M-33	BRIDGE & BARRIER MARKER PLACEMENT & INSTALLATION DETAILS
4/05	M-34	GUARDRAIL EXTRUDER TERMINAL DELINEATION DETAILS
2/02	M-35	OBJECT MARKER FOR SAND BARREL CRASH CUSHION
1/10	M-36	FLEXIBLE DELINEATOR ASSEMBLIES

REVISION	STANDARD	SIGNING & MARKING DETAILS
1/10	M-37	DELINEATORS IN-GROUND FOUNDATION DETAILS
1/10	M-38	SQUARE STEEL POST BREAK-AWAY DELINEATOR
8/04	S-1 SHT 1	SQUARE TUBE SIGN POST SELECTION CHARTS
5/06	S-1 SHT 2	PERFORATED SIGN POST FOUNDATION
5/03	S-1 SHT 3	PERFORATED SIGN POST FOUNDATION
10/10	S-2 SHT 1	S&W SHAPE POST SELECTION CHART (BREAKAWAY SIGN POST DESIGN)
10/10	S-2 SHT 2	S&W SHAPE POST SELECTION CHART (SPECIAL WIND REGIONS) (BREAKAWAY SIGN POST DESIGN)
10/10	S-3 SHT 1	OFFSETS, CLEARANCES, & MOUNTING DETAILS FOR GUIDE SIGNS & BREAKAWAY POST INSTALLATION
10/10	S-3 SHT 2	OFFSETS, CLEARANCES, & MOUNTING DETAILS FOR WARNING, REGULATORY & MARKER SIGN ON FREEWAYS
1/10	S-3 SHT 3	OFFSETS, CLEARANCES, & MOUNTING DETAILS FOR SIGNS ON NON-FREEWAYS RAMPS AND CROSSROADS
1/10	S-3 SHT 4	OFFSETS, CLEARANCES, & MOUNTING DETAILS FOR SQUARE TUBE POSTS
10/10	S-4	W SHAPE TENSION FUSE PLATE AND HINGE DETAILS
10/10	S-5	BREAKAWAY POST DETAILS FOR W SHAPE GUIDE SIGNS
10/10	S-6	BREAKAWAY POST DETAILS S4x7.7
6/06	S-7	AUXILIARY SIGN INSTALLATION DETAILS
8/06	S-8 SHT 1	ALUMINUM EXTRUSION SIGN PANEL DETAILS
8/06	S-8 SHT 2	ALUMINUM EXTRUSION EXIT NUMBER PANEL DETAIL
8/06	S-8 SHT 3	ALUMINUM EXTRUSION PANEL INSTALLATION DETAIL ON BREAKAWAY POSTS
8/06	S-8 SHT 4	ALUMINUM EXTRUSION SIGN INSTALLATION DETAIL TO PERFORATED POSTS
2/02	S-9 SHTS 1, 2 & 3	SIGN INSTALLATION ON POLE
5/04	S-10 SHT 1	FREEWAY MILEPOST DETAILS
5/04	S-10 SHT 2	NON-FREEWAY MILEPOST DETAILS
7/04	S-11 SHT 1	TAPERED TUBE SIGN STRUCTURE
7/04	S-11 SHT 2	TAPERED TUBE SIGN STRUCTURE
7/04	S-11 SHT 3	TAPERED TUBE SIGN STRUCTURE
7/04	S-11 SHT 4	TAPERED TUBE SIGN STRUCTURE
2/08	S-12 SHT 1	ARROWS FOR USE ON FREEWAY MAINLINE AND OVERHEAD GUIDE SIGNS
2/08	S-12 SHT 2	ARROWS FOR USE ON GROUND MOUNT GUIDE SIGNS ON CONVENTIONAL ROADWAYS, RAMPS, AND CROSSROADS
2/08	S-13	SIGN IDENTIFICATION DETAILS
4/06	S-14 SHT 1	INSTALLATION OF ROTATING OPEN/CLOSED SIGN
4/06	S-14 SHT 2	INSTALLATION OF ROTATING OPEN/CLOSED SIGN
4/06	S-14 SHT 3	INSTALLATION OF ROTATING OPEN/CLOSED SIGN
4/07	S-15 SHT 1	DUDLEY FOLDING SIGN
4/07	S-15 SHT 2	DUDLEY FOLDING SIGN
2/02	C-1	SAND BARREL CRASH CUSHION
2/02	C-2	SAND BARREL CRASH CUSHION TYPICAL INSTALLATION
12/06	C-3 SHT 1	PRECAST CONCRETE BARRIER PIN AND LOOP ASSEMBLY NCHRP 350 APPROVED DESIGN
12/06	C-3 SHT 2	PRECAST CONCRETE BARRIER PIN AND LOOP ASSEMBLY NCHRP 350 APPROVED DESIGN
2/02	C-4 SHT 1	MEDIAN CROSSOVER
2/02	C-4 SHT 2	TYPICAL END TREATMENTS FOR DETOURS USING TEMPORARY CONCRETE BARRIER (TCB)
10/02	C-5 SHT 1	APPROACH PLATE AND TRANSITION SECTION FOR TEMPORARY CONCRETE BARRIER
10/02	C-5 SHT 2	APPROACH PLATE AND TRANSITION SECTION FOR TEMPORARY CONCRETE BARRIER

NO. 1 DESCRIPTION OF REVISIONS: 1. M-18, M-19, M-20, M-21, M-22, M-23, M-24, M-26, M-27, M-28, M-29, M-30, M-31, M-32, M-33, M-34, M-35, M-36, M-37, M-38, M-39, M-40, M-41, M-42, M-43, M-44, M-45, M-46, M-47, M-48, M-49, M-50, M-51, M-52, M-53, M-54, M-55, M-56, M-57, M-58, M-59, M-60, M-61, M-62, M-63, M-64, M-65, M-66, M-67, M-68, M-69, M-70, M-71, M-72, M-73, M-74, M-75, M-76, M-77, M-78, M-79, M-80, M-81, M-82, M-83, M-84, M-85, M-86, M-87, M-88, M-89, M-90, M-91, M-92, M-93, M-94, M-95, M-96, M-97, M-98, M-99, M-100, M-101, M-102, M-103, M-104, M-105, M-106, M-107, M-108, M-109, M-110, M-111, M-112, M-113, M-114, M-115, M-116, M-117, M-118, M-119, M-120, M-121, M-122, M-123, M-124, M-125, M-126, M-127, M-128, M-129, M-130, M-131, M-132, M-133, M-134, M-135, M-136, M-137, M-138, M-139, M-140, M-141, M-142, M-143, M-144, M-145, M-146, M-147, M-148, M-149, M-150, M-151, M-152, M-153, M-154, M-155, M-156, M-157, M-158, M-159, M-160, M-161, M-162, M-163, M-164, M-165, M-166, M-167, M-168, M-169, M-170, M-171, M-172, 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ADOT STANDARD DRAWINGS			
REVISION DATES and STANDARD M.O.'S REVIEW			
SIGNING & MARKING STANDARDS	NAME	DATE	
	<i>Curtis</i>	4-27-11	
PROJECT NO.		18	OF 50
010 CH 297 H8336 OIC			
AS BUILT DATA	FEDERAL AID NO.	AS BUILT DATE	
	010-E(211)A		3 OF 55

ADOT STANDARD DRAWINGS

F.H.R.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(21)A	10	50	3/7/12

010 CH 297

STRUCTURES - 1992

REVISION DATE	STANDARD NUMBER	SUBJECT
REINFORCED CONCRETE BOX CULVERTS		
4/92	B-01.10	MISCELLANEOUS DETAILS FOR STANDARD BOX CULVERTS
4/92	B-01.11	BOX CULVERT EXTENSION DETAILS
7/88	B-02.10	SINGLE BARREL BOX CULVERT
4/92	B-02.20	DOUBLE BARREL BOX CULVERT
7/88	B-02.25	DOUBLE BARREL BOX CULVERT
4/92	B-02.30	TRIPLE BARREL BOX CULVERT
7/88	B-02.35	TRIPLE BARREL BOX CULVERT
4/92	B-02.40	FOUR BARREL BOX CULVERT
7/88	B-02.45	FOUR BARREL BOX CULVERT
4/92	B-02.50	FIVE BARREL BOX CULVERT
7/88	B-02.55	FIVE BARREL BOX CULVERT
4/92	B-02.60	SIX BARREL BOX CULVERT
7/88	B-02.65	SIX BARREL BOX CULVERT
7/88	B-02.70	CULVERT QUANTITIES
7/88	B-03.10	16' X 14' EQUIPMENT PASS
7/88	B-04.10	OUTLET WINGS, CULVERT HEIGHT 3' TO 7', SKEW 0° TO 20°
7/88	B-04.20	OUTLET WINGS, CULVERT HEIGHT 8' TO 12', SKEW 0° TO 20°
7/88	B-04.30	INLET WINGS, CULVERT HEIGHT 3' TO 7', SKEW 0° TO 20°
4/92	B-04.40	INLET WINGS, CULVERT HEIGHT 8' TO 12', SKEW 0° TO 20°
7/88	B-04.50	OUTLET WINGS, CULVERT HEIGHT 3' TO 7', SKEW 25° TO 45°
7/88	B-04.60	OUTLET WINGS, CULVERT HEIGHT 8' TO 12', SKEW 25° TO 45°
7/88	B-04.70	INLET WINGS, CULVERT HEIGHT 3' TO 7', SKEW 25° TO 45°
7/88	B-04.80	INLET WINGS, CULVERT HEIGHT 8' TO 12', SKEW 25° TO 45°
7/88	B-05.10	HEADWALL QUANTITIES, 2:1 SLOPE
7/88	B-05.20	HEADWALL QUANTITIES, 4:1 SLOPE
7/88	B-05.30	HEADWALL QUANTITIES, 6:1 SLOPE
4/92	B-06.10	OUTLET APRON DETAIL
7/88	B-06.20	OUTLET APRON DIMENSIONS & QUANTITIES, 2:1 SLOPE
7/88	B-06.30	OUTLET APRON DIMENSIONS & QUANTITIES, 4:1 SLOPE
7/88	B-06.40	OUTLET APRON DIMENSIONS & QUANTITIES, 6:1 SLOPE
7/76	B-08.10	INLET OR OUTLET LEVEL WINGS, HEIGHT 3' TO 7'
7/76	B-08.20	INLET OR OUTLET LEVEL WINGS, HEIGHT 8' TO 12'
REINFORCED CONCRETE HEADWALLS FOR PIPE CULVERTS		
4/92	B-11.10	PIPE CULVERT HEADWALLS, MISCELLANEOUS DETAILS
4/92	B-11.11	INLET AND OUTLET HEADWALLS, 18° TO 42° PIPES
4/92	B-11.12	INLET AND OUTLET HEADWALLS, RIGHT ANGLE PIPE CULVERTS, 48" TO 84" PIPES
4/92	B-11.13	INLET AND OUTLET HEADWALLS, SKEWED PIPE CULVERTS, 48" TO 84" PIPES
4/92	B-11.14	MULTIPIPE HEADWALLS, 48" TO 84" PIPES
4/92	B-12.10	INLET HEADWALLS, RIGHT ANGLE PIPE CULVERT
4/92	B-12.20	INLET HEADWALLS, RIGHT ANGLE PIPE CULVERT, 2:1 SLOPE
4/92	B-12.30	INLET HEADWALLS, RIGHT ANGLE PIPE CULVERT, 4:1 SLOPE
4/92	B-12.40	INLET HEADWALLS, RIGHT ANGLE PIPE CULVERT, 6:1 SLOPE
4/92	B-12.50	OUTLET HEADWALLS, RIGHT ANGLE PIPE CULVERT
4/92	B-12.60	OUTLET HEADWALLS, RIGHT ANGLE PIPE CULVERT, 2:1 SLOPE
4/92	B-12.70	OUTLET HEADWALLS, RIGHT ANGLE PIPE CULVERT, 4:1 SLOPE
4/92	B-12.80	OUTLET HEADWALLS, RIGHT ANGLE PIPE CULVERT, 6:1 SLOPE
4/92	B-13.10	INLET HEADWALLS, 15° SKEW PIPE CULVERT
4/92	B-13.20	INLET HEADWALLS, 15° SKEW PIPE CULVERT, 2:1 SLOPE
4/92	B-13.30	INLET HEADWALLS, 15° SKEW PIPE CULVERT, 4:1 SLOPE
4/92	B-13.40	INLET HEADWALLS, 15° SKEW PIPE CULVERT, 6:1 SLOPE
4/92	B-13.50	OUTLET HEADWALLS, 15° SKEW PIPE CULVERT
4/92	B-13.60	OUTLET HEADWALLS, 15° SKEW PIPE CULVERT, 2:1 SLOPE
4/92	B-13.70	OUTLET HEADWALLS, 15° SKEW PIPE CULVERT, 4:1 SLOPE
4/92	B-13.80	OUTLET HEADWALLS, 15° SKEW PIPE CULVERT, 6:1 SLOPE
4/92	B-14.10	INLET HEADWALLS, 30° SKEW PIPE CULVERT
4/92	B-14.20	INLET HEADWALLS, 30° SKEW PIPE CULVERT, 2:1 SLOPE
4/92	B-14.30	INLET HEADWALLS, 30° SKEW PIPE CULVERT, 4:1 SLOPE
4/92	B-14.40	INLET HEADWALLS, 30° SKEW PIPE CULVERT, 6:1 SLOPE
4/92	B-14.50	OUTLET HEADWALLS, 30° SKEW PIPE CULVERT
4/92	B-14.60	OUTLET HEADWALLS, 30° SKEW PIPE CULVERT, 2:1 SLOPE
4/92	B-14.70	OUTLET HEADWALLS, 30° SKEW PIPE CULVERT, 4:1 SLOPE
4/92	B-14.80	OUTLET HEADWALLS, 30° SKEW PIPE CULVERT, 6:1 SLOPE
4/92	B-15.10	INLET HEADWALLS, 45° SKEW PIPE CULVERT
4/92	B-15.20	INLET HEADWALLS, 45° SKEW PIPE CULVERT, 2:1 SLOPE
4/92	B-15.30	INLET HEADWALLS, 45° SKEW PIPE CULVERT, 4:1 SLOPE
4/92	B-15.40	INLET HEADWALLS, 45° SKEW PIPE CULVERT, 6:1 SLOPE
4/92	B-15.50	OUTLET HEADWALLS, 45° SKEW PIPE CULVERT
4/92	B-15.60	OUTLET HEADWALLS, 45° SKEW PIPE CULVERT, 2:1 SLOPE
4/92	B-15.70	OUTLET HEADWALLS, 45° SKEW PIPE CULVERT, 4:1 SLOPE
4/92	B-15.80	OUTLET HEADWALLS, 45° SKEW PIPE CULVERT, 6:1 SLOPE
4/92	B-16.10	MULTIPIPE HEADWALLS WITHOUT APRON
4/92	B-16.20	MULTIPIPE HEADWALLS WITH OUTLET APRON
4/92	B-17.10	OUTLET APRONS
4/92	B-17.20	OUTLET APRON STEEL LIST 2:1 SLOPE
4/92	B-17.30	OUTLET APRON STEEL LIST 4:1 SLOPE
4/92	B-17.40	OUTLET APRON STEEL LIST 6:1 SLOPE

MISCELLANEOUS STANDARDS

4/92	B-19.50	STRUCTURAL EXCAVATION & STRUCTURE BACKFILL FOR R.C.B. CULVERTS
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STRUCTURE DETAIL DRAWINGS

REVISION DATE	SD NO.	SUBJECT
RAILINGS		
3/09	SD1.01	F-SHAPE BRIDGE CONCRETE BARRIER AND TRANSITION (32") NOMINAL
3/09	SD1.02	F-SHAPE BRIDGE CONCRETE BARRIER AND TRANSITION (42") NOMINAL
11/07	SD1.03	THREE BEAM GUARD RAIL TRANSITION SYSTEM
3/09	SD1.04	COMBINATION PEDESTRIAN - TRAFFIC BRIDGE RAILING
3/09	SD1.05	PEDESTRIAN FENCE FOR BRIDGE RAILING SD1.04
6/09	SD1.06 (1 OF 4)	TWO TUBE BRIDGE RAIL
6/09	SD1.06 (2 OF 4)	TWO TUBE BRIDGE RAIL
6/09	SD1.06 (3 OF 4)	TWO TUBE BRIDGE RAIL
6/09	SD1.06 (4 OF 4)	TWO TUBE BRIDGE RAIL
4/10	SD1.11	BARRIER JUNCTION BOX
APPROACHES		
12/07	SD2.01	APPROACH SLAB DETAILS
12/07	SD2.02	TYPE 1 - ANCHOR SLAB DETAILS
12/07	SD2.03	TYPE 2 - ANCHOR SLAB DETAILS
9/09	SD2.04	SLOPE PAVING DETAILS
DECK JOINTS		
6/09	SD3.01	DECK JOINT ASSEMBLY - COMPRESSION SEAL
12/09	SD3.02	DECK JOINT ASSEMBLY - STRIP SEAL
12/09	SD3.03	DECK JOINT ASSEMBLY - RAISED STRIP SEAL
RETAINING WALLS		
9/10	SD7.01 (1 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
9/10	SD7.01 (2 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
9/10	SD7.01 (3 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
9/10	SD7.01 (4 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
9/10	SD7.01 (5 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
9/10	SD7.02 (1 OF 2)	RETAINING WALL (MASONRY CANTILEVER)
9/10	SD7.02 (2 OF 2)	RETAINING WALL (MASONRY CANTILEVER)
SOUND BARRIER WALLS		
4/10	SD8.01	SOUND BARRIER WALL (CONCRETE)
4/10	SD8.02 (1 OF 2)	SOUND BARRIER WALL (MASONRY)
4/10	SD8.02 (2 OF 2)	SOUND BARRIER WALL (MASONRY)
TRAFFIC STRUCTURES		
11/04	SD9.01 (1 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - ELEVATION & NOTES
04/00	SD9.01 (2 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - FOUNDATION DETAILS
04/00	SD9.01 (3 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - TYPE A SIGN MOUNT ASSEMBLY
04/00	SD9.01 (4 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - TYPE B SIGN MOUNT ASSEMBLY
04/00	SD9.01 (5 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - LIGHT SUPPORT AND WISC. DETAILS
11/04	SD9.02 (1 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - ELEVATION & NOTES
05/00	SD9.02 (2 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - FOUNDATION DETAILS
05/00	SD9.02 (3 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - TYPE A SIGN MOUNT ASSEMBLY
05/00	SD9.02 (4 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - TYPE B SIGN MOUNT ASSEMBLY
05/00	SD9.02 (5 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - LIGHT SUPPORT AND WISC. DETAILS
3/11	SD9.10 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - GENERAL & PLAN
3/11	SD9.10 (2 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - FOUNDATION DETAILS
3/11	SD9.10 (3 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - POST AND MAST ARM DETAILS
3/11	SD9.10 (4 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - SIGN SUPPORT DETAILS
3/11	SD9.10 (5 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - LIGHT SUPPORT DETAILS
3/11	SD9.20 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - GENERAL & PLAN
3/11	SD9.20 (2 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - FOUNDATION DETAILS
3/11	SD9.20 (3 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - POST AND MAST ARM DETAILS
3/11	SD9.20 (4 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - SIGN SUPPORT DETAILS
3/11	SD9.20 (5 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - LIGHT SUPPORT AND WISC. DETAILS
8/02	SD9.50 (1 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - PLAN & ELEVATION
8/02	SD9.50 (2 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
8/02	SD9.50 (3 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - MOUNTING AND SIGN BRACKET DETAILS
7/00	SD9.50 (4 OF 5)	VARIABLE MESSAGE SIGN - CATWALK - HANDRAIL DETAILS
7/00	SD9.50 (5 OF 5)	VARIABLE MESSAGE SIGN - CATWALK - MISCELLANEOUS DETAILS
8/02	SD9.51	DUAL VARIABLE MESSAGE SIGN - TUBULAR FRAME
5/07	SD9.52 (1 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - PLAN & ELEVATION
5/07	SD9.52 (2 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
5/07	SD9.52 (3 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
5/07	SD9.52 (4 OF 5)	DYNAMIC MESSAGE SIGN - CATWALK - HANDRAIL DETAILS
5/07	SD9.52 (5 OF 5)	DYNAMIC MESSAGE SIGN - CATWALK - MISCELLANEOUS DETAILS

REV.: 3 / 11

ADOT STANDARD DRAWINGS		
REVISION DATES and STANDARD NO.'s REVIEW		
STRUCTURES Standards	NAME	DATE
	NAV NW	04/11

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	2	50	3/7/12
010 CH 297					

MIDPOINT OF PROJECT
 State Plan Coordinates
 X = 416,170
 Y = 350,357

LENGTH OF PROJECT
 Mescal Rd Sta 50+72.75 to 53+17.50 = 244.75 ft

GENERAL NOTES:

Construction Specification-Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, Edition of 2008.

All dimensions are based on As-Built plans, and shall be verified prior to the fabrication of any materials.

Dimensions shall not be scaled from drawing.

No new Right-of-Way or construction easements are required. All construction activity shall occur within ADOT's existing Right-of-Way.

All stations, elevations and dimensions shown are based on "As-built" plans and do not necessarily correspond to structure conditions now existing. Stations elevations and dimensions in field may vary from those shown and shall be adjusted as required and directed by the Engineer. Existing survey control coordinates are shown in the table.

INDEX OF SHEET

Sheet No.	Sheet Type
1	Face Sheet
1A, 1B, 1D	ADOT Standard Drawings
2	Design Index Sheet
3-17	Traffic Control Plans
18	Pavement Marking and Signing Plans
19-47	Mescal Road TI UP Bridge Plans
48-50	Bridge Standard Drawings

SURVEY CONTROL
 (Local Coordinate System)

X	Y	Station	Offset	Description
4983.7020	4615.8390	Rt 50+83.01	15.27	Brass Cap In Headwall
4952.0340	4606.7010	Lt 50+73.60	16.32	USGS Reference Cap

BRIDGE DESIGN SECTION BY		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STA. 50+ MESCAL ROAD TI UP DESIGN INDEX SHEET	
DESIGN	N. Vibookmate	03-11		
DESIGN CTD	R. Davis	03-11		
DRAWN	N. Vibookmate	03-11		
ENG CTD	R. Davis	03-11		
APPROVED-PROJ. ENGINEER	N. Vibookmate	04-11		
APPROVED-DESIGN LEADER	N. Vibookmate	04-11		
I-10	297.17	0517	LOCATION	
ROUTE	MELEPOST	STRUCTURE NO.	MESCAL ROAD TI UP *0517	
TRACS NO. H 8336 OIC			010-E(211)A	
			5 OF 55	


TRAFFIC CONTROL NOTES:

FEDERAL REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	3	50	3/7/12
010 CH 297					

1. THE TRAFFIC CONTROL PLANS REPRESENT A SUGGESTED METHOD FOR TRAFFIC CONTROL DURING CONSTRUCTION. THE CONTRACTOR MAY PREPARE ANOTHER TRAFFIC CONTROL PLAN IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS. ALL TRAFFIC CONTROL PLANS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER BEFORE BEGINNING CONSTRUCTION.
2. ADJUSTMENTS TO THE DETAILS OF THESE TRAFFIC CONTROL PLANS AND REQUIREMENTS MAY BE NECESSARY DUE TO CONSTRUCTION ACTIVITIES, AS DIRECTED 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.
4. ALL CONSTRUCTION SIGNS SHALL HAVE BLACK LETTERS ON AN ORANGE BACKGROUND, EXCEPT AS OTHERWISE INDICATED.
5. THE RETROREFLECTIVE SHEETING ON ALL CONSTRUCTION SIGNS SHALL MEET THE CRITERIA ESTABLISHED FOR TYPE VIII, IX, OR XI SHEETING IN ACCORDANCE WITH ASTM D4956 EXCEPT ALL BLACK-ON-WHITE SIGNS, BARRICADES, VERTICAL PANELS, AND OTHER WORK ZONE TRAFFIC CONTROL DEVICES MAY HAVE TYPE IV SHEETING. ALL ORANGE SIGNS SHALL HAVE FLUORESCENT SHEETING.
6. ALL SIGNS SHOWN ON THE PLANS SHALL BE MOUNTED ON EMBEDDED POSTS, EXCEPT AS OTHERWISE INDICATED. FOR SIGNS INSTALLED ON EMBEDDED POSTS, SIGN MOUNTING HEIGHT IS A MINIMUM OF 7 FEET AS MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT. ALL OTHER SHORT-TERM SIGNS MAY BE INSTALLED ON PORTABLE STANDS AT LEAST 5 FEET ABOVE THE PAVEMENT.
7. THE NEAREST EDGE OR CORNER OF A SIGN SHALL BE APPROXIMATELY 12 FEET FROM THE NEAREST EDGE OF PAVEMENT, 6 FEET BEHIND THE BACK OF THE GUARDRAIL, OR 2 FEET BEHIND BARRIER OR SIDEWALK FOR ALL SIGNS MOUNTED ON EMBEDDED POSTS.
8. FLAGS SHALL BE MOUNTED ON TOP OF ALL CONSTRUCTION SIGNS. TYPE A FLASHING WARNING LIGHTS SHALL BE REQUIRED ON ALL NIGHTTIME CONSTRUCTION SIGNS.
9. FOR SINGLE LANE OR FULL ROADWAY CLOSURES ON I-10, THE CONTRACTOR SHALL UTILIZE ONLY TYPE I OR TYPE II BARRICADES FOR CHANNELIZING DEVICES, EXCEPT THE ENGINEER MAY ALLOW THE CONTRACTOR TO SUBSTITUTE VERTICAL PANELS ON TANGENTS. THE CONTRACTOR MAY UTILIZE CONES FOR CHANNELIZING DEVICES DURING DAYTIME ACTIVITIES NOT INVOLVING LANE CLOSURES, EXCEPT AS OTHERWISE DIRECTED BY THE ENGINEER.
10. TYPE I OR TYPE II BARRICADES SHALL BE PLACED 40 FEET O.C. IN TAPERS AND 80 FEET O.C. ON TANGENTS, EXCEPT AS OTHERWISE INDICATED.
11. A TYPE C STEADY-BURNING YELLOW LIGHT SHALL BE MOUNTED ON EVERY TYPE I OR TYPE II BARRICADE OR VERTICAL PANEL USED FOR CHANNELIZATION DURING NIGHTTIME ACTIVITIES.
12. THE CONTRACTOR SHALL POSITION A SUFFICIENT NUMBER OF TYPE III BARRICADES ACROSS EACH ROADWAY BEING CLOSED. A TYPE A FLASHING WARNING LIGHT SHALL BE POSITIONED ON EACH END OF EACH TYPE III BARRICADE.
13. FOR TEMPORARY CONCRETE BARRIER DETAILS, SEE STD. DWG. C-3. BM-1 (WHITE) BARRIER MARKERS CONFORMING TO STD. DWG. M-32 SHALL BE INSTALLED AT 20 FEET SPACING. THE CONTRACTOR MAY INSTALL THE BARRIER MARKERS EITHER CONSISTENTLY ON THE SIDES OR CONSISTENTLY ON THE TOPS OF THE BARRIER. THE INSTALLED PRICE FOR THE MARKERS SHALL BE CONSIDERED A PART OF THE BARRIER COST.
14. FOR TEMPORARY CONCRETE BARRIER SETUPS OFF THE ROADWAY, THE CONTRACTOR SHALL ENSURE THE EARTHEN MATERIAL UNDER THE TEMPORARY CONCRETE BARRIER IS 10:1 OR FLATTER. THERE SHALL BE NO MEASUREMENT OR PAYMENT FOR THE PLACEMENT, MAINTENANCE, AND REMOVAL OF EARTHEN MATERIAL IN CONNECTION WITH THESE SETUPS.
15. SPEED LIMIT SIGNING IS PRELIMINARY AND IS SUBJECT TO REVIEW AND CHANGE BY THE ENGINEER AS DICTATED BY FIELD CONDITIONS.
16. 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. NO FURTHER COMPENSATION WILL BE MADE. THESE SIGNS SHALL BE REMOVED WITHIN 24 HOURS AFTER THE COMPLETION OF THE CONSTRUCTION ACTIVITIES.
17. ON WEEKENDS, ON HOLIDAYS, AND AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN TWO LANES OF TRAFFIC ON I-10. THE ENGINEER MAY PERMIT THE CONTRACTOR TO CLOSE A LANE ON EB I-10 OR WB I-10, IN ACCORDANCE WITH TYPICAL APPLICATION 33 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), EITHER ON A WEEKDAY (MONDAY - FRIDAY) BETWEEN DAWN AND DUSK OR AT NIGHT BEGINNING NO EARLIER THAN 8:00 PM ON A MONDAY, TUESDAY, WEDNESDAY, OR THURSDAY NIGHT AND CONCLUDING BY 6:00 AM THE FOLLOWING MORNING, EXCEPT AS OTHERWISE INDICATED IN THE SPECIAL PROVISIONS.
18. THE CONTRACTOR MAY CLOSE THE FULL ROADWAY ON EB I-10 AND ON WB I-10 A MAXIMUM OF FIVE TIMES PER DIRECTION IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS FOR REMOVING SPALLED AREAS FROM AND PATCHING/REPAIRING THE EXISTING PEDESTRIAN BRIDGE AND SETTING GIRDERS, CONSTRUCTING THE PIER CAPS, AND POURING THE NEW BRIDGE DECK. THE CONTRACTOR MAY FULLY CLOSE THE EB I-10 AND WB I-10 ROADWAYS CONCURRENTLY OR AT SEPARATE TIMES, BUT SHALL NOT FULLY CLOSE EITHER ROADWAY MORE THAN FIVE TIMES. THE ALLOWABLE TIME PERIOD FOR EACH OF THESE CLOSURES SHALL BE 8:00 PM ON A MONDAY, TUESDAY, WEDNESDAY, OR THURSDAY NIGHT THROUGH 6:00 AM THE FOLLOWING MORNING, EXCEPT AS OTHERWISE INDICATED IN THE SPECIAL PROVISIONS.
19. OFF-DUTY UNIFORMED POLICE OFFICERS AND THEIR VEHICLES SHALL BE INCLUDED AS PART OF THE CONTRACTOR'S TRAFFIC CONTROL WHEN THE ENGINEER DECIDES THEY SHOULD BE PRESENT INCLUDING DURING THE INSTALLATION AND REMOVAL OF TEMPORARY CONCRETE BARRIER.
20. WHERE NO CLOSURE IS NECESSARY BUT WHERE THERE IS CONSTRUCTION ALONGSIDE A ROADWAY, THE CONTRACTOR SHALL PLACE 48 INCH X 48 INCH "ROAD WORK AHEAD" AND "SHOULDER WORK AHEAD" SIGNING AS DIRECTED BY THE ENGINEER TO ALERT THE PUBLIC TO THE CONSTRUCTION ACTIVITIES.
21. WHILE TRAFFIC CONTROL ITEMS ARE NOT IN USE, THE CONTRACTOR SHALL REMOVE THESE ITEMS TO A LOCATION AT LEAST 30 FEET FROM THE EDGE OF THE PAVED ROADWAY. THIS INCLUDES ALL SIGN 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.
22. THE CONTRACTOR SHALL ABIDE BY THE TRAFFIC CONTROL REQUIREMENTS CONTAINED IN SUBSECTION 104.04 - MAINTENANCE OF TRAFFIC - OF THE SPECIAL PROVISIONS.

23. WHERE SHOWN ON THE TRAFFIC CONTROL PLANS, SOME SIGNS WILL BE PROVIDED AND INSTALLED BY OTHERS IN ADVANCE OF THE PROJECT. HOWEVER, THE CONTRACTOR SHALL PROVIDE TYPE A FLASHING WARNING LIGHTS (TWO TYPE A LIGHTS FOR SIGNS 6 FEET OR WIDER) AND TWO FLAGS FOR EACH OF THESE SIGNS, WHETHER INSTALLED BY THE CONTRACTOR OR BY OTHERS, THROUGHOUT CONSTRUCTION AS INDICATED IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL ALSO REMOVE THESE SIGNS AND SUPPORTS IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR ITEMS 2020053 AND 2020054.
24. THE CONTRACTOR SHALL INSTALL THE WORK ZONE TRAFFIC CONTROL DEVICES - EXCEPT SIGNING TO BE PROVIDED/INSTALLED BY OTHERS - SHOWN ON THE TRAFFIC CONTROL PLANS AS SOON AS PRACTICABLE - NO LATER THAN THE FIRST DAY OF CONTRACT TIME OR THE DATE OF THE PARTNERING/PRECONSTRUCTION SESSION, WHICHEVER COMES FIRST, OR AS OTHERWISE PERMITTED BY THE ENGINEER. THE CONTRACTOR SHALL COORDINATE THESE INSTALLATIONS WITH THE REMOVAL BY OTHERS OF THE EXISTING WORK ZONE TRAFFIC CONTROL DEVICES TEMPORARILY PROVIDED BY OTHERS WITH THE ENGINEER, AS INDICATED IN THE SPECIAL PROVISIONS.
25. ALL DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE.

DATE: _____
MADE BY: _____
DATE: _____
DESCRIPTION OF REVISION: _____

DESIGN	C. LITIN	4-11	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION	
DRAWN	E. GOODMAN	4-11		
CHECKED	CAMPBELL/RASHID	4-11		
TEAM LEADER	C. LITIN	4-11		
TRAFFIC CONTROL NOTES				
LOCATION	I-10 MESCAL ROAD TI UP *0517		EXPIRES 6-30-12 SHEET 1 OF 15	
TRACS NO.	H8336 01C	010-E(211)A	6 OF 55	


F.H.L.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	4	50	3/7/12
010 CH 297					

APPROXIMATE TRAFFIC CONTROL QUANTITIES

BID ITEM NO.	ELEMENT OF WORK	UNIT	ADVANCE PROJECT SIGNING	1-10 FULL ROADWAY CLOSURE	EB 1-10 RIGHT SHOULDER CLOSURE (BRIDGE PIER)	CROSSROAD CLOSURE	MISC. 1-10 LANE CLOSURES	MISC. 1-10 SHOULDER CLOSURES	MISC. CROSSROAD WORK
	ESTIMATED DURATION	DAYS	130	5/DIRECTION	60	120	30	24	2
7015010	TEMPORARY CONCRETE BARRIER (INSTALLATION & REMOVAL)	L.FT.			200				
7015091	SPECIALTY SIGN	SQ. FT.				572			
7016020	TEMPORARY CONCRETE BARRIER (IN USE)	L.FT.-DAY			12,000				
7016030	BARRICADE (TYPE II, VERTICAL PANEL)	EACH-DAY	2,800	900	900	1,320	1,500		
7016031	BARRICADE (TYPE III, HIGH LEVEL FLAG TREE)	EACH-DAY		40		1,080			
7016032	RIGID SIGN STAND	EACH-DAY				600			
7016033	PORTABLE SIGN STAND (SPRING TYPE)	EACH-DAY		300		480	780	96	24
7016035	WARNING LIGHT (TYPE A)	EACH-DAY	2,860	380	120	8,640	260		
7016037	WARNING LIGHT (TYPE C)	EACH-DAY	2,800	900	900	1,320	500		
7016038	TRAFFIC CONE (28 IN.)	EACH-DAY						960	80
7016039	EMBEDDED SIGN POST	EACH-DAY	5,720		240	4,080			
7016050	TRUCK MOUNTED ATTENUATOR	EACH-DAY		20					
7016051	TEMPORARY SIGN (LESS THAN 10 SQ. FT.)	EACH-DAY		120	120	6,240			
7016052	TEMPORARY SIGN (AT LEAST 10 SQ. FT.)	EACH-DAY	2,860	290	120	720	780	96	24
7016061	FLASHING ARROW PANEL	EACH-DAY		10			30		
7016067	CHANGEABLE MESSAGE BOARD (CONTRACTOR FURNISHED)	EACH-DAY	280	20					4
7016075	FLAGGING SERVICES (CIVILIAN)	HOUR		200					32
	FLAGGING SERVICES (UNIFORMED OFFICER)	HOUR		660					16
9240130	PORTABLE SPEED MONITOR	EACH-DAY	10				330		

NOTE: TRAFFIC CONTROL FOR MISCELLANEOUS ACTIVITIES IS NOT INCLUDED IN THE ABOVE TABLE.

MADE BY: DATE: NO. 1 DESCRIPTION OF REVISION

DESIGN	C. LITIN	4-11	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION	
DRAWN	E. GOODMAN	4-11		
CHECKED	CAMPBELL/RASHID	4-11		
TEAM LEADER	C. LITIN	4-11		
LOCATION			I-10 MESCAL ROAD TI UP #0517	EXPIRES 6-30-12
TRACS NO. H8336 01C			010-E(211)A	SHEET 2 OF 15
				7 OF 55

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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① W20-1 48" x 48"	② W20-1 48" x 48"	③ W3-5aAZ 48" x 48"	④ R2-1(65) 48" x 60" BLACK ON WHITE	⑤ G20-2 48" x 36"	⑥ W21-5g 48" x 48" W13-1(65) 24" x 24"	⑦ R2-1(55) 48" x 60" BLACK ON WHITE	⑧ R2-1(45) 48" x 60" BLACK ON WHITE				
⑭ W20-1 48" x 48"	⑮ W19-5e 48" x 48"	⑯ W20-5L 48" x 48"	⑰ W20-2 48" x 48"	⑱ W20-5L 48" x 48"	⑲ W4-2L 48" x 48" W13-1(40) 24" x 24"	⑳ W1-4R 48" x 48" W13-1(35) 24" x 24"	㉑ R2-1(35) 48" x 60" BLACK ON WHITE	㉒ R11-2 48" x 30" BLACK ON WHITE M4-10R 48" x 18"	㉓ M4-8 24" x 12" M3-2 24" x 12" WHITE ON BLUE M1-1a(10) 24" x 24" RED, WHITE, AND BLUE M6-3 24" x 18"	㉔ M4-8 24" x 12" M3-4 24" x 12" WHITE ON BLUE M1-1a(10) 24" x 24" RED, WHITE, AND BLUE M6-3 24" x 18"	
㉕ R3-2 24" x 24" BLACK AND RED ON WHITE	㉖ R1-1 36" x 36" WHITE ON RED	㉗ W3-1 48" x 48"	㉘ W20-2 48" x 48"								

NOTES:

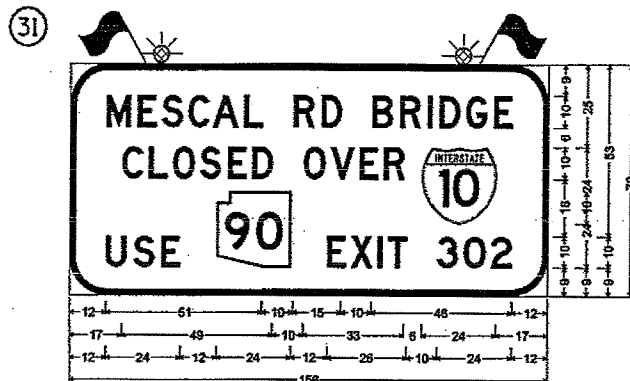
1. THE SIGNS SHOWN ON SHEETS 8 - 12 SHALL ONLY BE IN PLACE DURING A FULL ROADWAY CLOSURE.
2. THE CONTRACTOR SHALL REMOVE ALL SIGNS EXCEPT FOR THE ①, ②, AND ⑤ (AND POSSIBLY ③ AND ④, IF PERMITTED BY THE ENGINEER) SIGNS SHOWN ON SHEETS 7, 14, AND 15 OF 15 ONCE THE NEW CROSSROAD BRIDGE IS OPEN TO VEHICULAR TRAFFIC (ONCE THE DETOUR IS NO LONGER NECESSARY). THE ENGINEER MAY ALLOW THE CONTRACTOR TO ESTABLISH SINGLE LANE OR SHOULDER CLOSURES ON EASTBOUND OR WESTBOUND I-10 OR ON THE CROSSROAD, USING SOME OF THESE SIGNS FOR SHORT-TERM SETUPS, AFTER THE BRIDGE IS OPEN TO TRAFFIC.

DESIGN	C. LITIN	4-11	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION TRAFFIC CONTROL PLANS SIGN LEGEND SHEET 1 OF 4	
DRAWN	E. GOODMAN	4-11		
CHECKED	CAMPBELL/RASHID	4-11		
TEAM LEADER	C. LITIN	4-11		
LOCATION	I-10 MESCAL ROAD TI UP #0517			
TRACS NO.	H8336 OIC	010-E(211)A	EXP. 6-30-12 SHEET 3 OF 15 9 OF 55	

NO. 1 DESCRIPTION OF REVISION DATE NO. 2 DESCRIPTION OF REVISION DATE

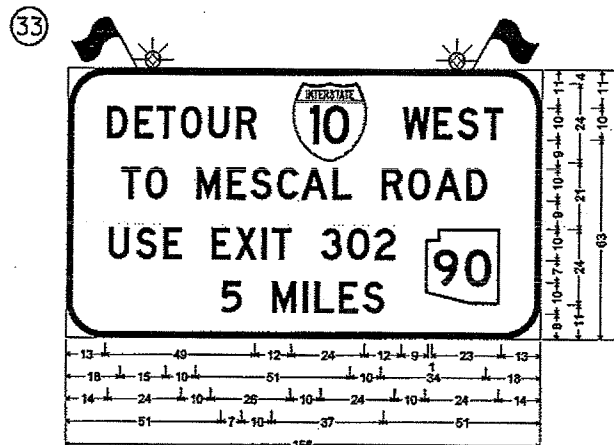
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	6	50	3/7/12

010 CH 297



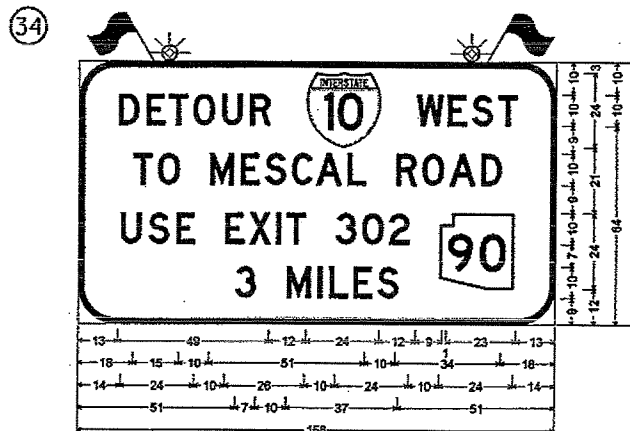
12" Radius, 2" Border, Black on Orange;
[MESCAL RD BRIDGE] D; [CLOSED OVER] D; [USE] D;
State Highway 90 M1-5c; [EXIT 302] D;

(PROVIDED/INSTALLED BY OTHERS)

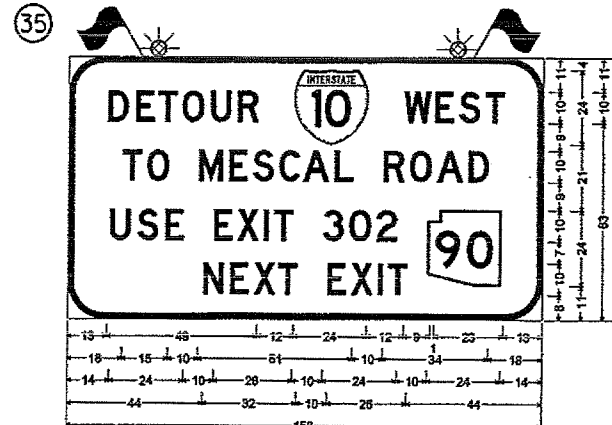


12" Radius, 2" Border, Black on Orange;
[DETOUR] D; [W EST] D; [TO MESCAL ROAD] D; [USE EXIT 302] D;
State Highway 90 M1-5c; [5 MILES] D;

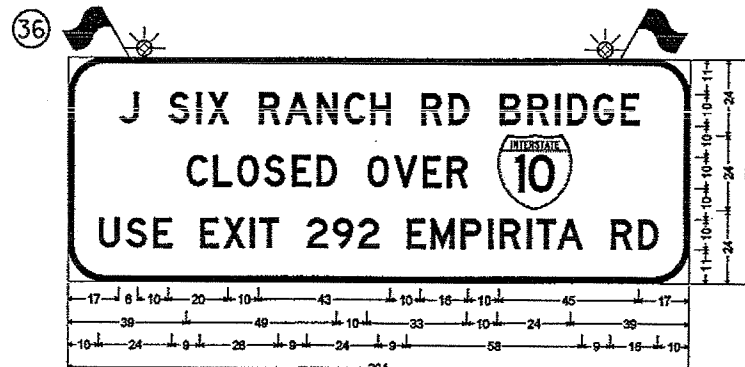
(PROVIDED/INSTALLED BY OTHERS)



12" Radius, 2" Border, Black on Orange;
[DETOUR] D; [W EST] D; [TO MESCAL ROAD] D; [USE EXIT 302] D;
State Highway 90 M1-5c; [3 MILES] D;

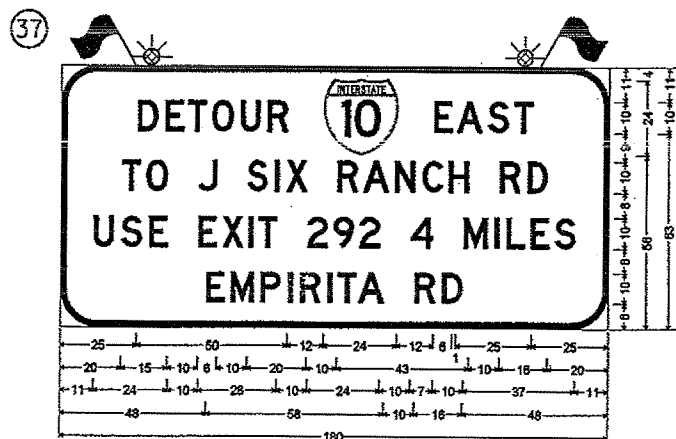


12" Radius, 2" Border, Black on Orange;
[DETOUR] D; [W EST] D; [TO MESCAL ROAD] D; [USE EXIT 302] D;
State Highway 90 M1-5c; [NEXT EXIT] D;



12" Radius, 2" Border, Black on Orange;
[J SIX RANCH RD BRIDGE] D; [CLOSED OVER] D; [USE EXIT 292 EMPIRITA RD] D 93% spacing;

(PROVIDED/INSTALLED BY OTHERS)



12" Radius, 2" Border, Black on Orange;
[DETOUR] D; [E AST] D; [TO J SIX RANCH RD] D; [USE EXIT 292 4 MILES] D;
[EMPIRITA RD] D;

(PROVIDED/INSTALLED BY OTHERS)

NOTES:

- ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT ON A FLUORESCENT ORANGE BACKGROUND.
- ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE 10 IN. TEXT, D ALPHABET.
- ALL ROUTE SHIELDS SHALL BE 24 IN. X 24 IN. WITH 12 IN. NUMERALS.
- 10** ROUTE SHIELDS SHALL BE RED, WHITE, AND BLUE.
- 90** ROUTE SHIELDS SHALL BE BLACK ON WHITE.
- THE **31**, **33**, **36**, AND **37** SIGNS WILL BE PROVIDED AND INSTALLED BY OTHERS. THE **34** AND **35** SIGNS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR ON WOODEN OR 2 1/2 T SUPPORTS (NO MORE THAN THREE POSTS). THE CONTRACTOR SHALL INSTALL THE 2 1/2 T SUPPORTS WITH SLIP BASES, EXCEPT BEHIND GUARDRAIL, AND CONCRETE FOUNDATIONS. THE COSTS FOR THE SUPPORTS, SLIP BASES, AND FOUNDATIONS (INSTALLATION AND REMOVAL) SHALL BE INCLUDED IN THE PRICE FOR THE SPECIALTY SIGNS (ITEM 7015091).
- THE CONTRACTOR SHALL AFFIX TWO FLAGS AND TWO TYPE A FLASHING WARNING LIGHTS TO EACH OF THESE SIGNS, WHETHER PROVIDED AND INSTALLED BY THE CONTRACTOR OR BY OTHERS. THE CONTRACTOR SHALL BE REIMBURSED FOR THE TYPE A LIGHTS UNDER ITEM 7016035.

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION
DESIGN	C. LITIN	4-11	
DRAWN	E. GOODMAN	4-11	
CHECKED	CAMPBELL/RASHID	4-11	
TEAM LEADER	C. LITIN	4-11	

22200-CURTIS LITIN
ARIZONA U.S.A.

LOCATION: I-10 MESCAL ROAD TI UP *0517

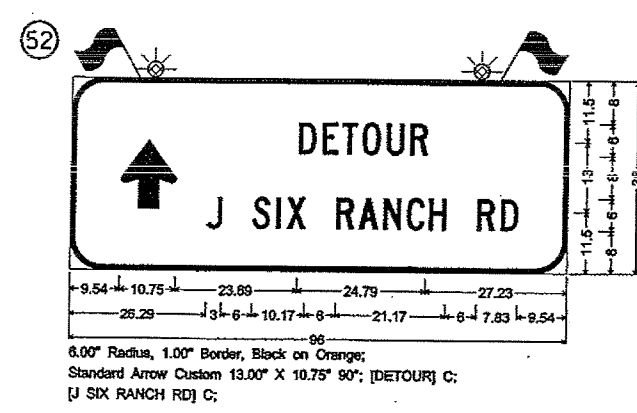
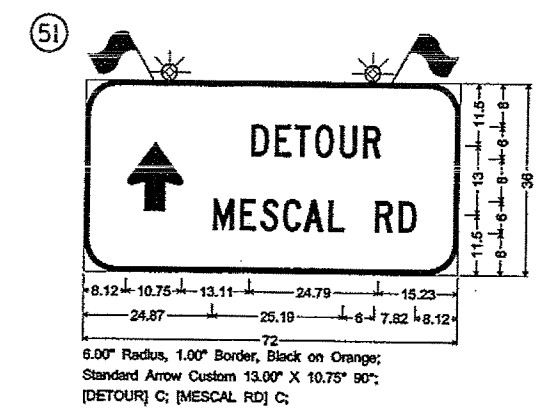
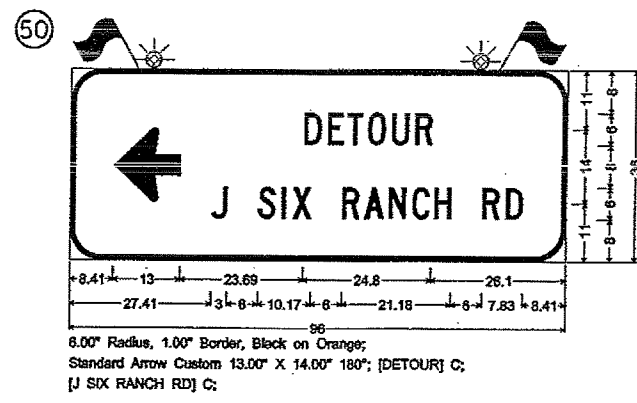
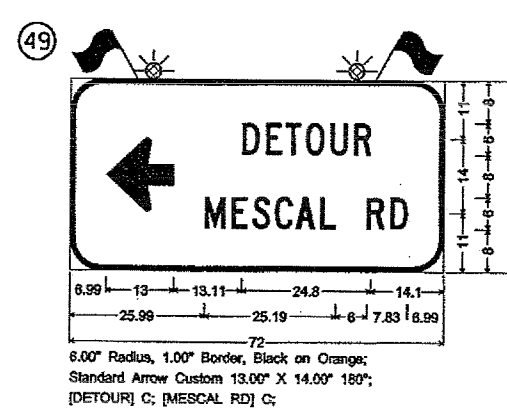
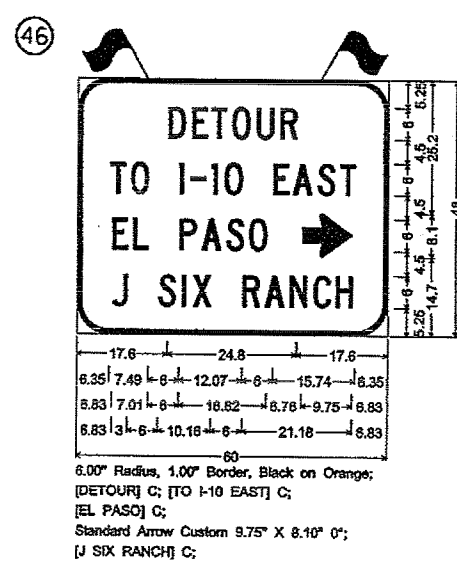
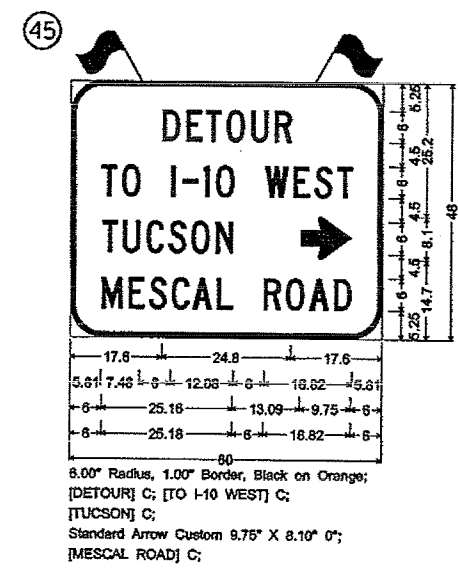
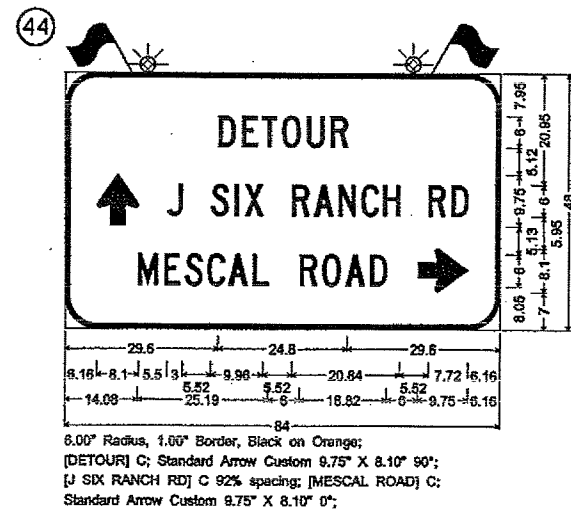
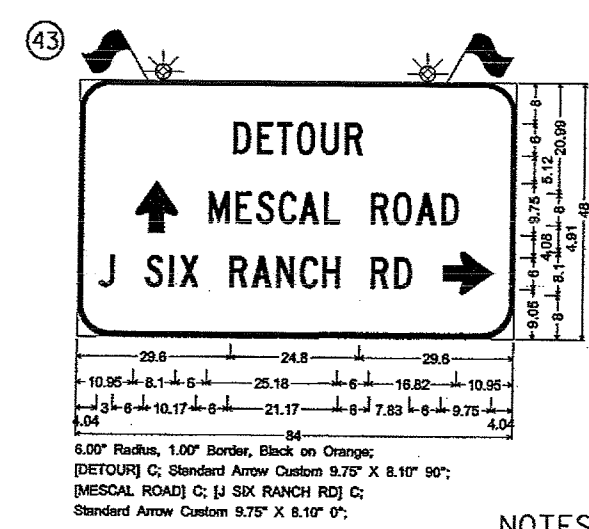
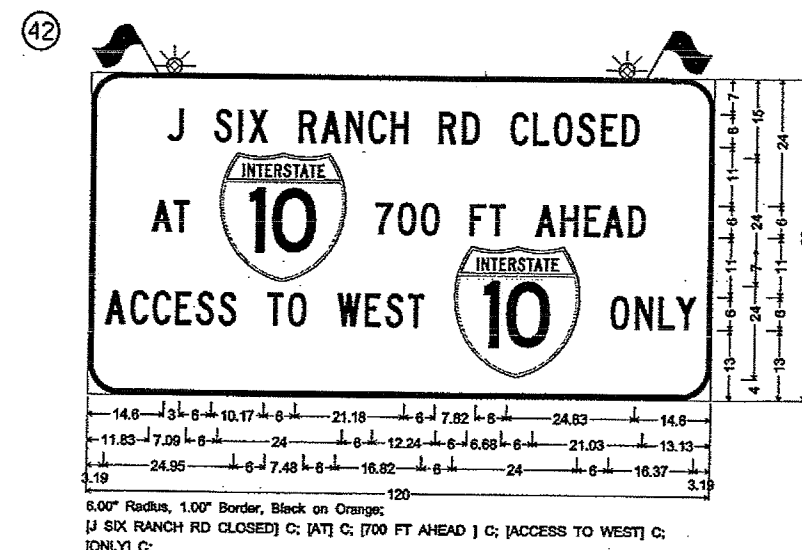
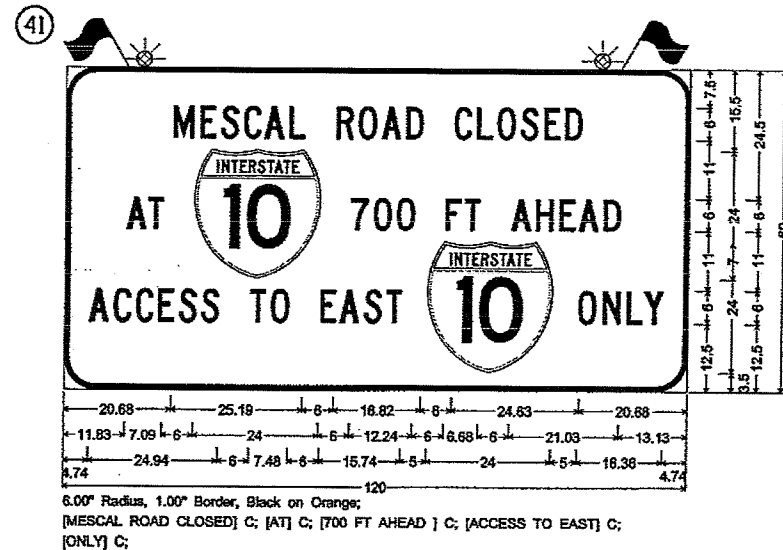
TRACS NO. H8336 01C

010-E(211)A

EXPIRES 6-30-12
SHEET 4 OF 15

9 OF 55

F.A.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-EC(21)A	7	50	3/7/12
010 CH 297					



- NOTES:
- ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT ON A FLUORESCENT ORANGE BACKGROUND.
 - ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE 6 IN. TEXT, C ALPHABET.
 - ALL ROUTE SHIELDS SHALL BE 24 IN. X 24 IN. WITH 12 IN. NUMERALS.
 - 10** ROUTE SHIELDS SHALL BE RED, WHITE, AND BLUE.
 - SIGNS (45), (46), AND (49) SHALL BE INSTALLED ON TYPE III BARRICADES (EACH BARRICADE WITH TWO TYPE A LIGHTS; THE TYPE A LIGHTS WILL SERVE AS THE LIGHTS FOR THE SIGNS). ALL OTHER SIGNS SHALL BE INSTALLED ON WOODEN OR 2 1/2 T SUPPORTS (NO MORE THAN THREE POSTS). THE CONTRACTOR SHALL INSTALL THE 2 1/2 T SUPPORTS WITH SLIP BASES, EXCEPT BEHIND GUARDRAIL, AND CONCRETE FOUNDATIONS. THE COSTS FOR THE SUPPORTS, SLIP BASES, AND FOUNDATIONS (INSTALLATION AND REMOVAL) SHALL BE INCLUDED IN THE PRICE FOR THE SPECIALTY SIGNS (ITEM 7015091). THE ENGINEER MAY PERMIT THE CONTRACTOR TO INSTALL SIGNS (43), (44), (50), (51), AND/OR (52) ON OTHER SUPPORTS AS LONG AS THERE WOULD BE NO MORE THAN THREE SUPPORTS PER INSTALLATION AND THE INSTALLATION WOULD MEET THE RELEVANT CRASH TESTING REQUIREMENTS FOR SIGN SUPPORTS.
 - THE CONTRACTOR SHALL AFFIX TWO FLAGS AND TWO TYPE A FLASHING WARNING LIGHTS TO EACH OF THESE SIGNS, EACH OF WHICH SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REIMBURSED FOR THE TYPE A LIGHTS UNDER ITEM 7016035.

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION
DESIGN	C. LITIN	4-11	
DETAILED	E. GOODMAN	4-11	
CHECKED	CAMPBELL/RASHID	4-11	
TEAM LEADER	C. LITIN	4-11	
LOCATION I-10 MESCAL ROAD TI UP #0517			
TRACS NO. H8336 OIC			
010-EC(21)A			22200 CURTIS LITIN ARIZONA U.S.
10 OF 55			EXPIRES 6-30-12 SHEET 5 OF 15

F.H.R.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	8	50	3/7/12

010 CH 297

53

M4-8
24"x12"
M3-2
24"x12"
WHITE ON BLUE
M1-1a(10)
24"x24"
RED, WHITE, AND BLUE
SPECIALTY SIGN
72"x12"
BLACK ON ORANGE
M5-1L
24"x18"

54

M4-8
24"x12"
M3-2
24"x12"
WHITE ON BLUE
M1-1a(10)
24"x24"
RED, WHITE, AND BLUE
SPECIALTY SIGN
72"x12"
BLACK ON ORANGE
M6-1L
24"x18"

55

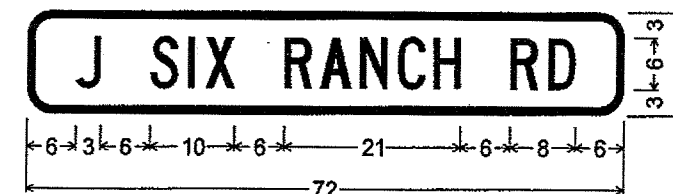
M4-8
24"x12"
M3-2
24"x12"
WHITE ON BLUE
M1-1a(10)
24"x24"
RED, WHITE, AND BLUE
SPECIALTY SIGN
72"x12"
BLACK ON ORANGE
M6-3
24"x18"

56

M4-8
24"x12"
M3-2
24"x12"
WHITE ON BLUE
M1-1a(10)
24"x24"
RED, WHITE, AND BLUE
SPECIALTY SIGN
72"x12"
BLACK ON ORANGE
M5-2R
24"x18"

57

M4-8
24"x12"
M3-2
24"x12"
WHITE ON BLUE
M1-1a(10)
24"x24"
RED, WHITE, AND BLUE
SPECIALTY SIGN
72"x12"
BLACK ON ORANGE
M6-2R
24"x18"



3" Radius, 1" Border, Black on Orange;

[J SIX RANCH RD] C;

SPECIALTY SIGN WITH 6 IN. TEXT, C ALPHABET

58

M4-8
24"x12"
M3-4
24"x12"
WHITE ON BLUE
M1-1a(10)
24"x24"
RED, WHITE, AND BLUE
SPECIALTY SIGN
48"x12"
BLACK ON ORANGE
M5-1L
24"x18"

59

M4-8
24"x12"
M3-4
24"x12"
WHITE ON BLUE
M1-1a(10)
24"x24"
RED, WHITE, AND BLUE
SPECIALTY SIGN
48"x12"
BLACK ON ORANGE
M6-1L
24"x18"

60

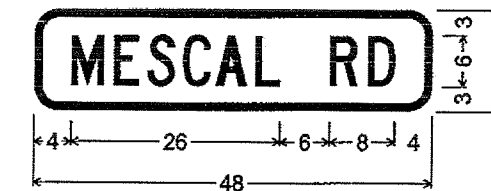
M4-8
24"x12"
M3-4
24"x12"
WHITE ON BLUE
M1-1a(10)
24"x24"
RED, WHITE, AND BLUE
SPECIALTY SIGN
48"x12"
BLACK ON ORANGE
M6-3
24"x18"

61

M4-8
24"x12"
M3-4
24"x12"
WHITE ON BLUE
M1-1a(10)
24"x24"
RED, WHITE, AND BLUE
SPECIALTY SIGN
48"x12"
BLACK ON ORANGE
M5-2R
24"x18"

62

M4-8
24"x12"
M3-4
24"x12"
WHITE ON BLUE
M1-1a(10)
24"x24"
RED, WHITE, AND BLUE
SPECIALTY SIGN
48"x12"
BLACK ON ORANGE
M6-2R
24"x18"



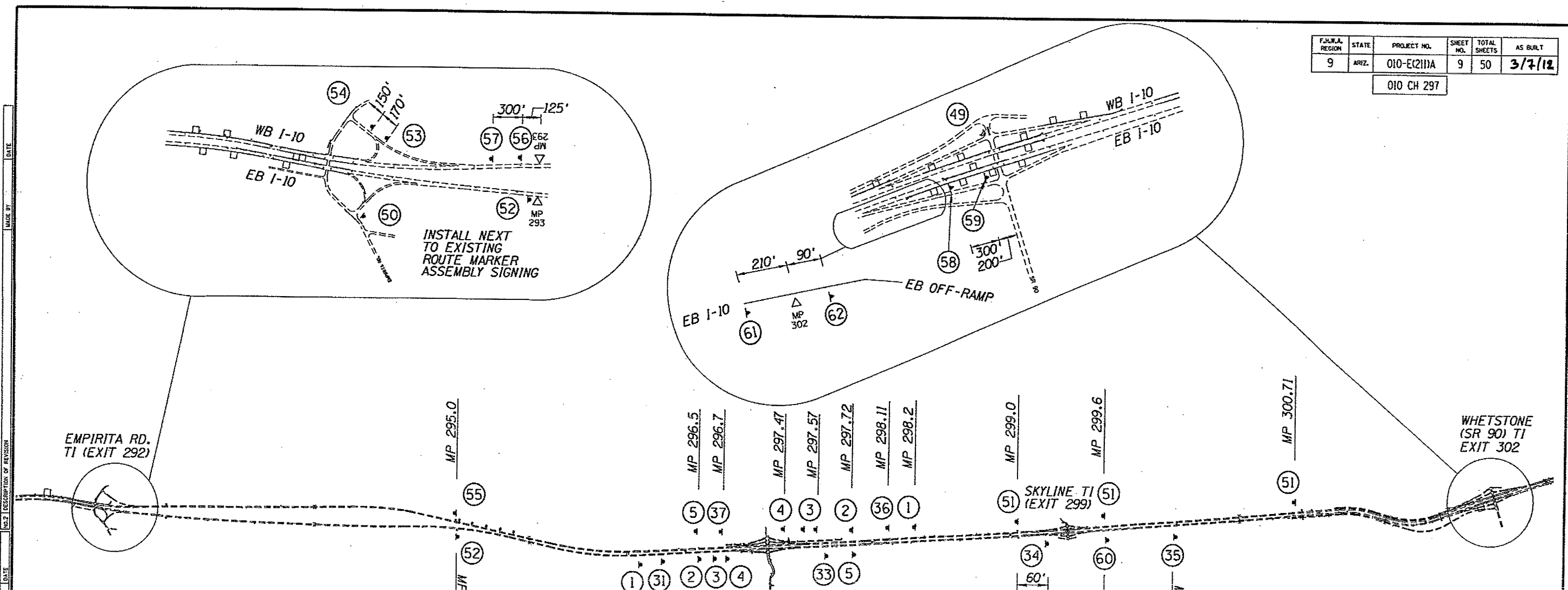
3" Radius, 1" Border, Black on Orange;

[Mescal Rd] C;

SPECIALTY SIGN WITH 6 IN. TEXT, C ALPHABET

DESIGN	C. LITIN	4-11	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION TRAFFIC CONTROL PLANS SIGN LEGEND, SHEET 4 OF 4 TRAILBLAZING SIGNING	
DRAWN	E. GOODMAN	4-11		
CHECKED	CAMPBELL/RASHID	4-11		
TEAM LEADER	C. LITIN	4-11		
LOCATION	I-10 Mescal Road TI UP #0517			EXPIRES 6-30-12 SHEET 6 OF 15
TRACS NO.	H8336 OIC		010-E(211)A	11 OF 55

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	9	50	3/7/12
010 CH 297					



NOTES:

1. ALL DISTANCES AND LOCATIONS ARE APPROXIMATE.
2. FOR SIGNS ①-⑤, THE CONTRACTOR SHALL INSTALL THE SIGNS ON BOTH SIDES OF THE (EASTBOUND I-10/WESTBOUND I-10) ROADWAY.
3. SIGNS ③①, ③③, ③⑥, AND ③⑦ WILL BE INSTALLED BY OTHERS. THE CONTRACTOR SHALL AFFIX TWO TYPE A FLASHING WARNING LIGHTS AND TWO FLAGS TO EACH SPECIALTY SIGN INSTALLED BY OTHERS. THE CONTRACTOR SHALL ALSO REMOVE THESE SIGNS AND SUPPORTS ONCE THE MESCAL RD./J SIX RANCH RD. CROSSROAD BRIDGE IS OPEN TO TRAFFIC. THE CONTRACTOR WILL BE REIMBURSED FOR REMOVING/SALVAGING THESE SIGN PANELS AND SUPPORTS IN ACCORDANCE WITH THE REQUIREMENTS FOR ITEM 2020053 IN THE SPECIAL PROVISIONS.
4. EXCEPT FOR THE SIGNS SHOWN BY THE SR 90 TI (ON TEMPORARY SUPPORTS) OR AS OTHERWISE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL INSTALL ALL SIGN PANELS SHOWN ON THIS SHEET TO BE SUPPLIED BY THE CONTRACTOR ON EMBEDDED POSTS. THE CONTRACTOR SHALL INSTALL SIGN ④⑨ ON A TYPE III BARRICADE ON THE NORTHWEST CORNER OF SR 90 AND WHICHEVER WB ON-RAMP IS CURRENTLY OPEN TO TRAFFIC. THE CONTRACTOR SHALL INSTALL ALL OTHER TEMPORARY SIGNS AT THAT TI ON SPRING STANDS. THE CONTRACTOR SHALL REPOSITION THE TEMPORARY SIGNING (RELATED TO THIS PROJECT) AT THE SR 90 TI AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL REMOVE ALL SIGNS SHOWN ON THIS SHEET EXCEPT FOR THE ①, ②, AND ⑤ (AND POSSIBLY ③ AND ④, IF PERMITTED BY THE ENGINEER) SIGNS ONCE THE NEW CROSSROADS BRIDGE IS OPEN TO VEHICULAR TRAFFIC.

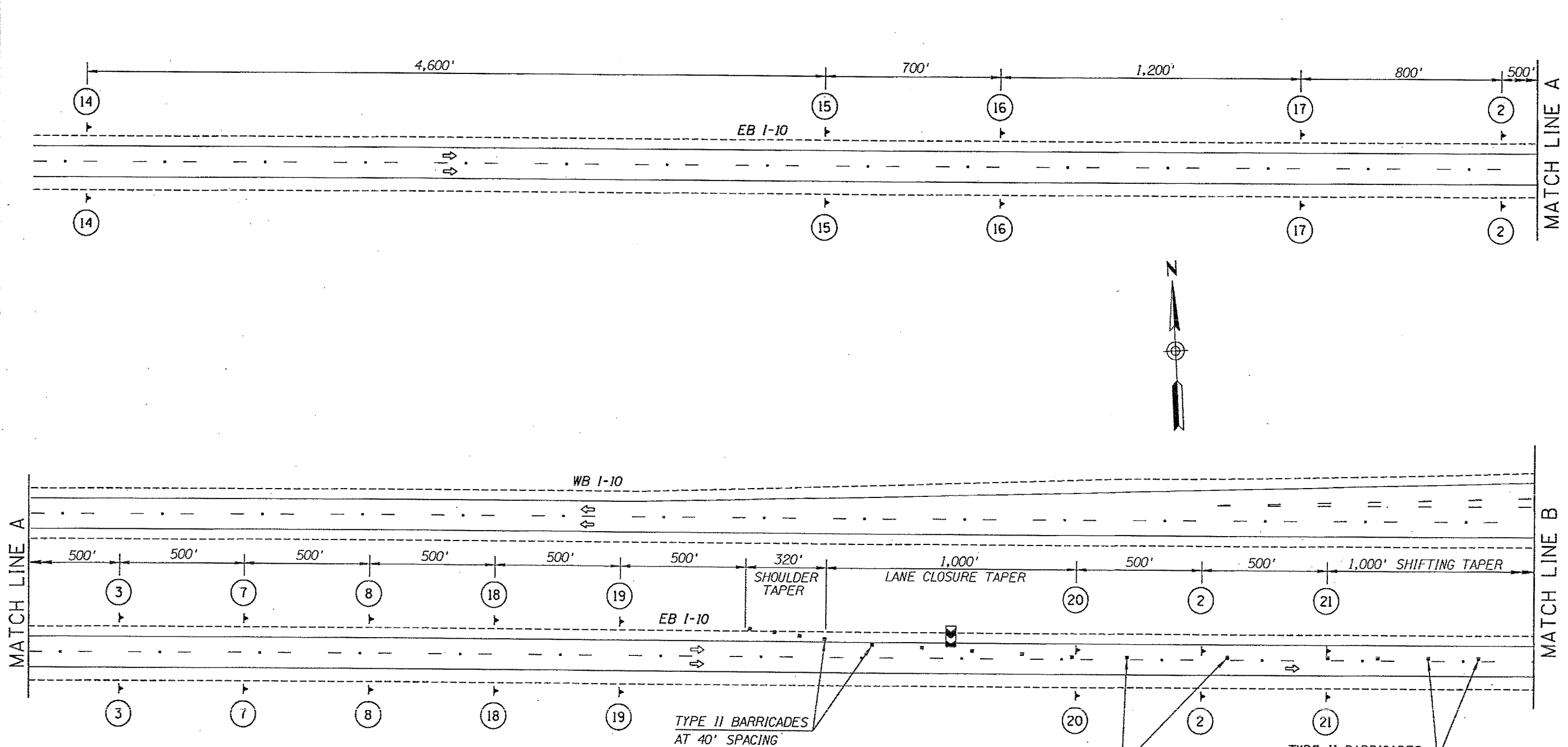
SYMBOL LEGEND:

	SIGN ON EMBEDDED POST(S)
	SIGN ON SPRING STAND
	SIGN ON TYPE III BARRICADE



DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION	
DESIGN	C. LITIN	4-11		
DRAWN	E. GOODMAN	4-11		
CHECKED	CAMPBELL/RASHID	4-11		
TEAM LEADER	C. LITIN	4-11	TRAFFIC CONTROL PLANS ADVANCED PROJECT AND DETOUR SIGNING ON I-10	
LOCATION			I-10	MESCAL ROAD TI UP #0517
TRACS NO. H8336 01C			010-E(211)A	12 OF 55

F.W.M.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	10	50	3/7/12
010 CH 297					



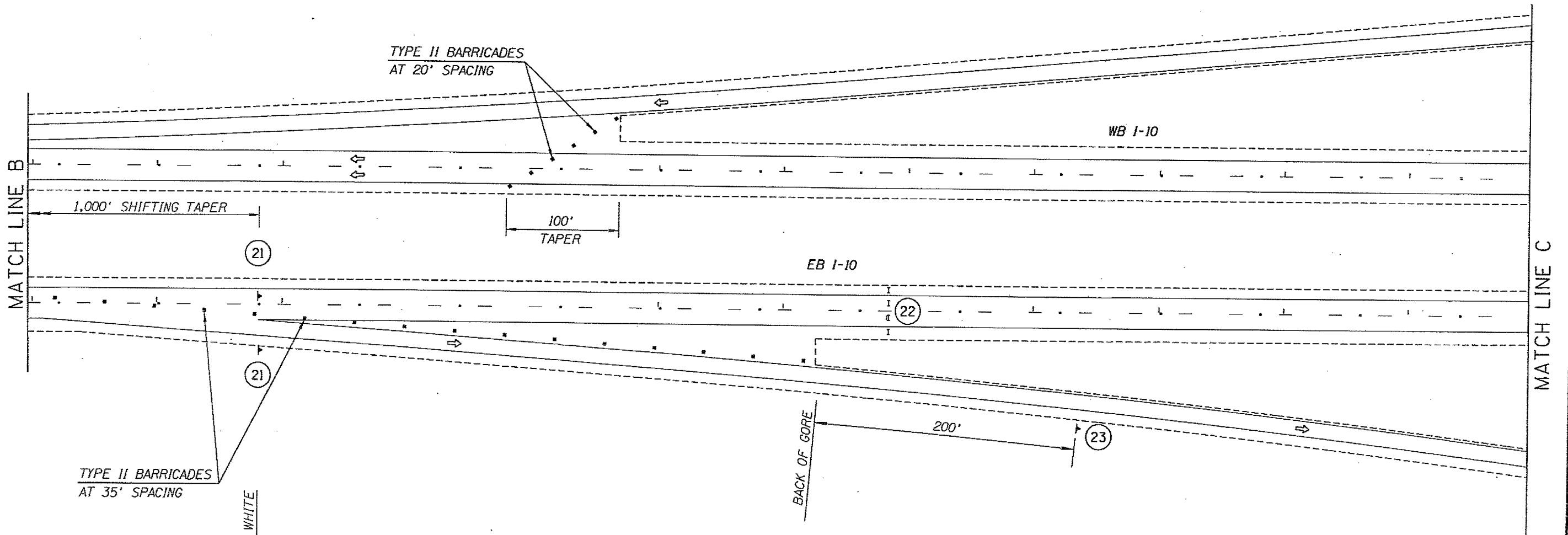
- NOTES:**
1. THE CONTRACTOR SHALL TEMPORARILY COVER THE ADVANCE PROJECT SIGNING ON I-10 WHICH CONFLICTS WITH THE SIGNING FOR THIS TRAFFIC CONTROL SETUP.
 2. THESE PLANS SHOW CONCURRENT EB AND WB I-10 FULL ROADWAY CLOSURES. HOWEVER, THE CONTRACTOR MAY CLOSE THE EB AND WB I-10 ROADWAYS SEPARATELY PER THE TRAFFIC CONTROL NOTES AND SPECIAL PROVISIONS.

SYMBOL LEGEND:

	SIGN ON SPRING STAND
	TYPE II BARRICADE
	FLASHING ARROW PANEL
	DIRECTION OF TRAVEL

DESIGN	C. LITIN	4-11	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION	
DRAWN	E. GOODMAN	4-11		
CHECKED	CAMPBELL/RASHID	4-11		
TEAM LEADER	C. LITIN	4-11		
LOCATION: I-10			MESCAL ROAD TI UP #0517	EXPIRES 6-30-12
TRACS NO. H8336 OIC			010-E(211)A	SHEET 8 OF 15
				13 OF 55

F.J.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	11	50	3/7/12
010 CH 297					



NO. 1 DESCRIPTION OF REVISION DATE MAKE BY NO. 2 DESCRIPTION OF REVISION DATE MAKE BY

NOTES:

1. THE CONTRACTOR SHALL TEMPORARILY COVER THE ADVANCE PROJECT SIGNING ON I-10 WHICH CONFLICTS WITH THE SIGNING FOR THIS TRAFFIC CONTROL SETUP.
2. THESE PLANS SHOW CONCURRENT EB AND WB I-10 FULL ROADWAY CLOSURES. HOWEVER, THE CONTRACTOR MAY CLOSE THE EB AND WB I-10 ROADWAYS SEPARATELY PER THE TRAFFIC CONTROL NOTES AND SPECIAL PROVISIONS.

SYMBOL LEGEND:

▶	SIGN ON SPRING STAND
■	TYPE II BARRICADE
I	TYPE III BARRICADE
II	SIGN ON TYPE III BARRICADE
➔	DIRECTION OF TRAVEL

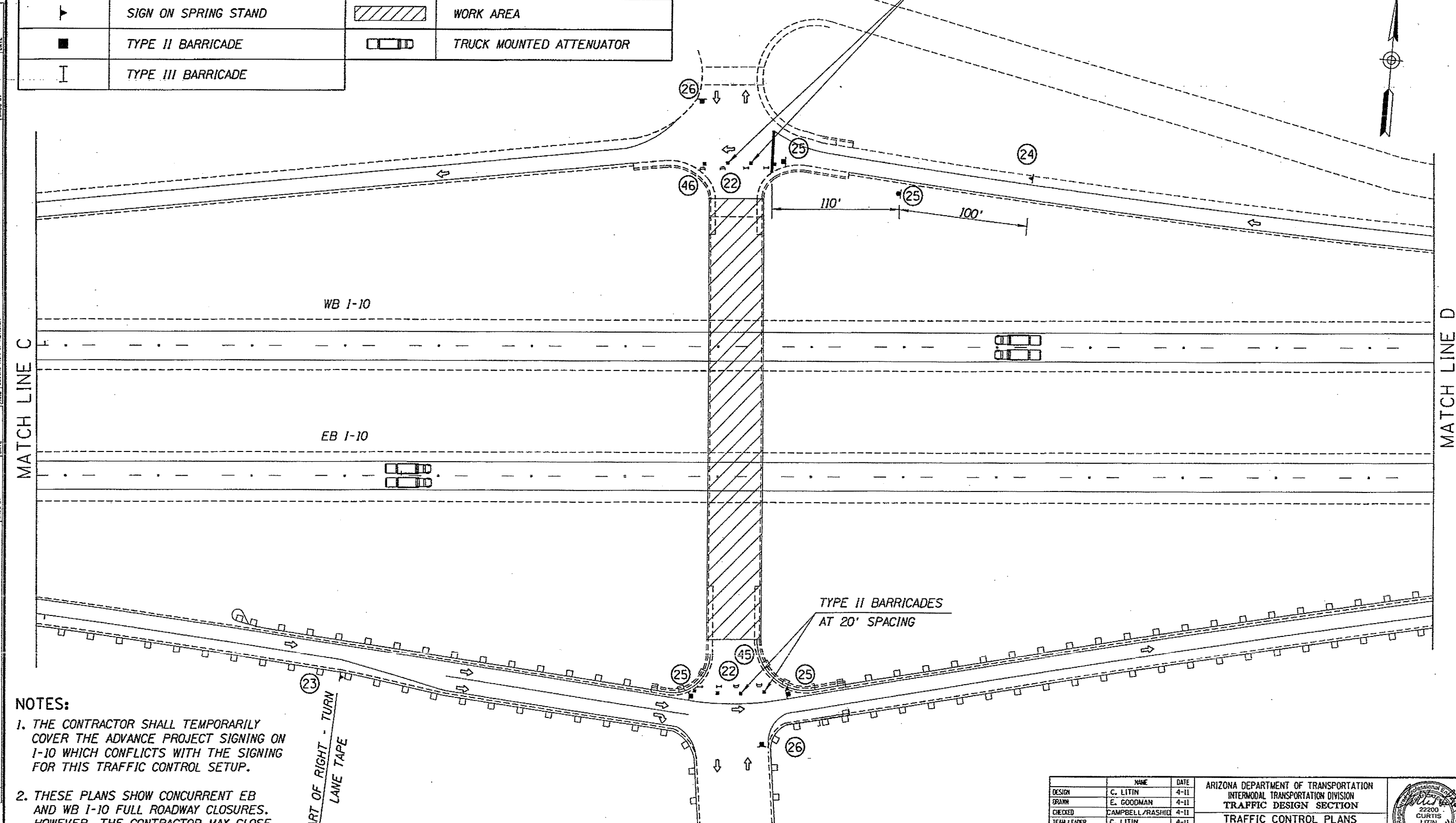
DESIGN	C. LITIN	4-11	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION TRAFFIC CONTROL PLANS I-10 FULL ROADWAY CLOSURE SHEET 2 OF 5	
DRAWN	E. GOODMAN	4-11		
CHECKED	CAMPBELL/RASHID	4-11		
TEAM LEADER	C. LITIN	4-11		
LOCATION	I-10 MESCAL ROAD TI UP #0517		EXPIRES 6-30-12	SHEET 9 OF 15 14 OF 55
TRACS NO.	H8336 OIC	010-E(211)A		

SYMBOL LEGEND:

	SIGN ON EMBEDDED POST(S)		SIGN ON TYPE III BARRICADE
	SIGN ON RIGID STAND		DIRECTION OF TRAVEL
	SIGN ON SPRING STAND		WORK AREA
	TYPE II BARRICADE		TRUCK MOUNTED ATTENUATOR
	TYPE III BARRICADE		

F.A.R./A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	12	50	3/7/12

OIO CH 297



NOTES:

1. THE CONTRACTOR SHALL TEMPORARILY COVER THE ADVANCE PROJECT SIGNING ON I-10 WHICH CONFLICTS WITH THE SIGNING FOR THIS TRAFFIC CONTROL SETUP.
2. THESE PLANS SHOW CONCURRENT EB AND WB I-10 FULL ROADWAY CLOSURES. HOWEVER, THE CONTRACTOR MAY CLOSE THE EB AND WB I-10 ROADWAYS SEPARATELY PER THE TRAFFIC CONTROL NOTES AND SPECIAL PROVISIONS.

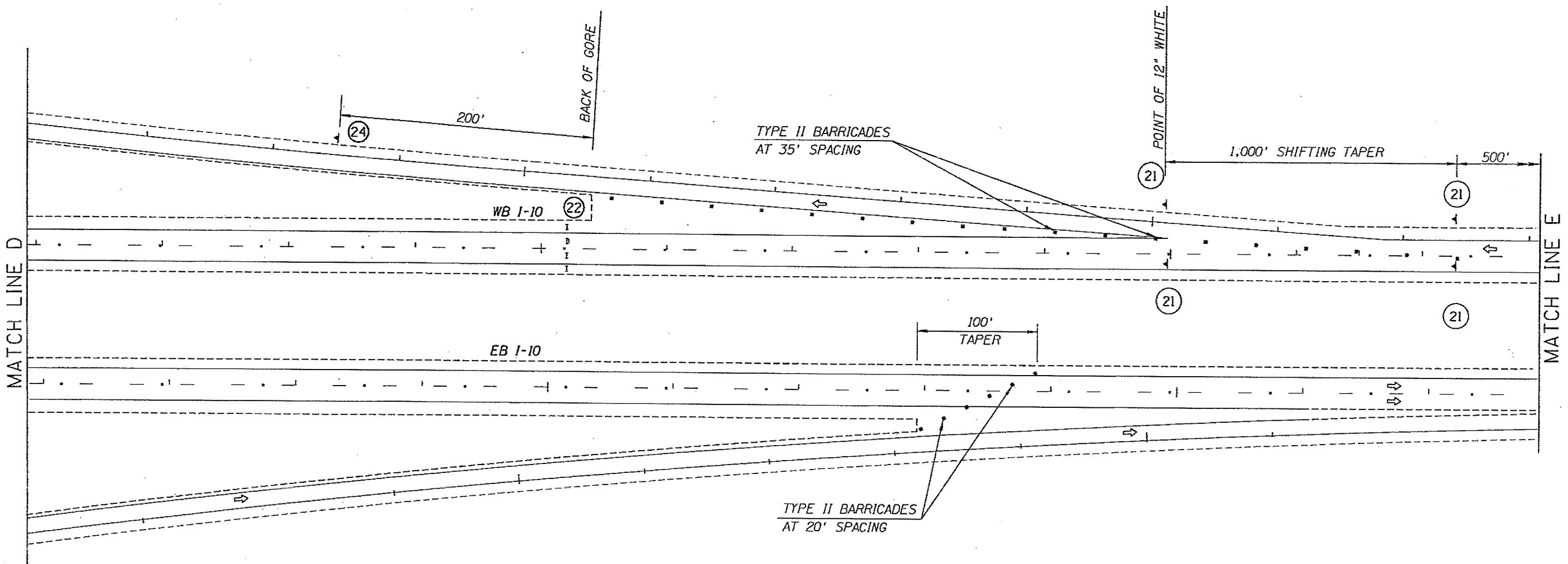
START OF RIGHT-TURN LANE TAPE

DESIGN	C. LITIN	4-11	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION	
DRAWN	E. GOODMAN	4-11		
CHECKED	CAMPBELL/RASHIG	4-11		
TEAM LEADER	C. LITIN	4-11		
LOCATION	I-10 Mescal Road TI UP #0517		TRAFFIC CONTROL PLANS I-10 FULL ROADWAY CLOSURE SHEET 3 OF 5	
TRACS NO.	H8336 OIC		OIO-E(211)A	EXPIRES 6-30-12 SHEET 10 OF 15 15 OF 55

F.J.R.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	13	50	3/7/12
010 CH 297					



NO. 1 DESCRIPTION OF REVISION DATE
NO. 2 DESCRIPTION OF REVISION DATE



NOTES:

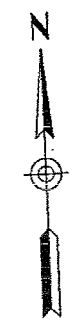
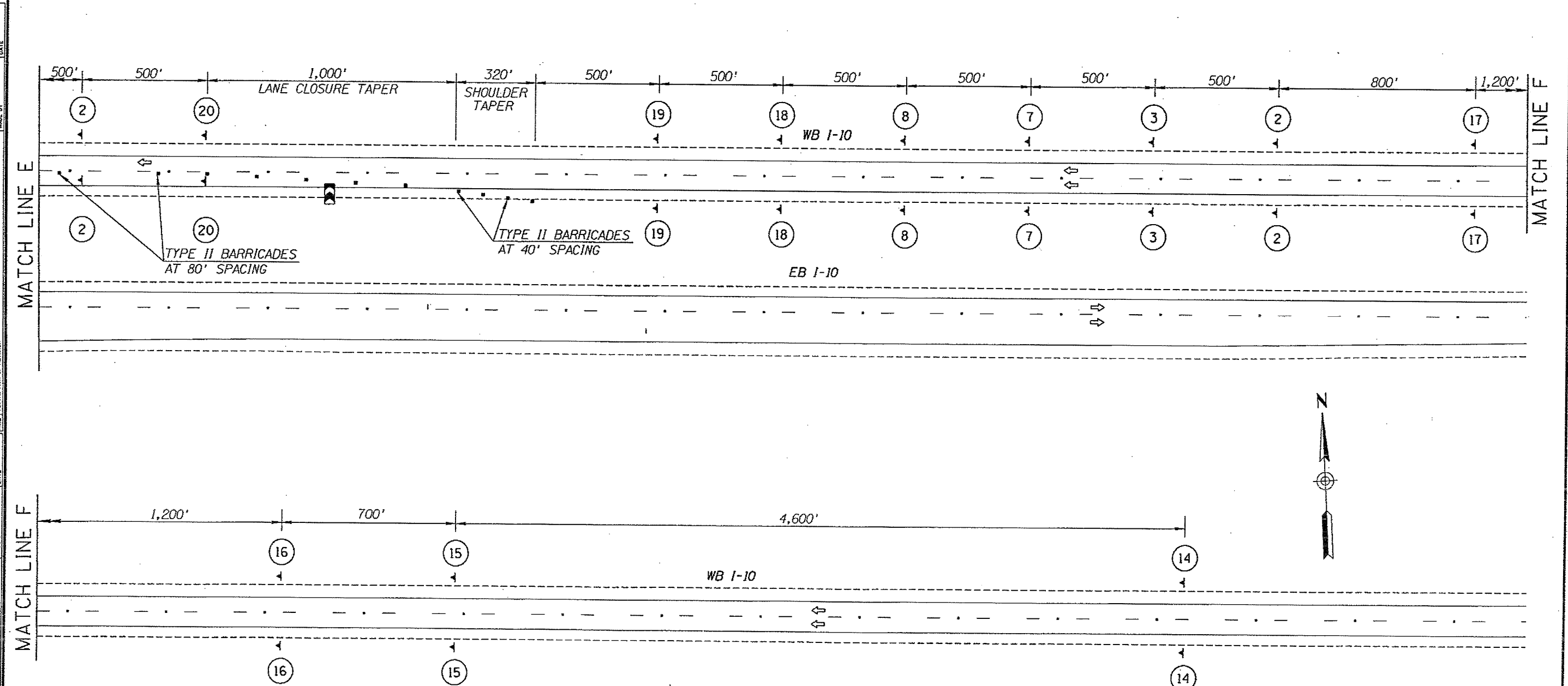
1. THE CONTRACTOR SHALL TEMPORARILY COVER THE ADVANCE PROJECT SIGNING ON I-10 WHICH CONFLICTS WITH THE SIGNING FOR THIS TRAFFIC CONTROL SETUP.
2. THESE PLANS SHOW CONCURRENT EB AND WB I-10 FULL ROADWAY CLOSURES. HOWEVER, THE CONTRACTOR MAY CLOSE THE EB AND WB I-10 ROADWAYS SEPARATELY PER THE TRAFFIC CONTROL NOTES AND SPECIAL PROVISIONS.

SYMBOL LEGEND:

▶	SIGN ON SPRING STAND
■	TYPE II BARRICADE
I	TYPE III BARRICADE
II	SIGN ON TYPE III BARRICADE
➔	DIRECTION OF TRAVEL

DESIGN	G. LITIN	4-11	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION	
DRAWN	E. GOODMAN	4-11		
CHECKED	CAMPBELL/RASHID	4-11		
TEAM LEADER	G. LITIN	4-11		
TRAFFIC CONTROL PLANS I-10 FULL ROADWAY CLOSURE SHEET 4 OF 5				
LOCATION	I-10 MESCAL ROAD TI UP #0517		EXPIRES 6-30-12 SHEET 11 OF 15	
TRACS NO.	H8336 OIC	010-E(211)A	16 OF 55	

F.W.R.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	14	50	3/7/12
010 CH 297					



NOTES:

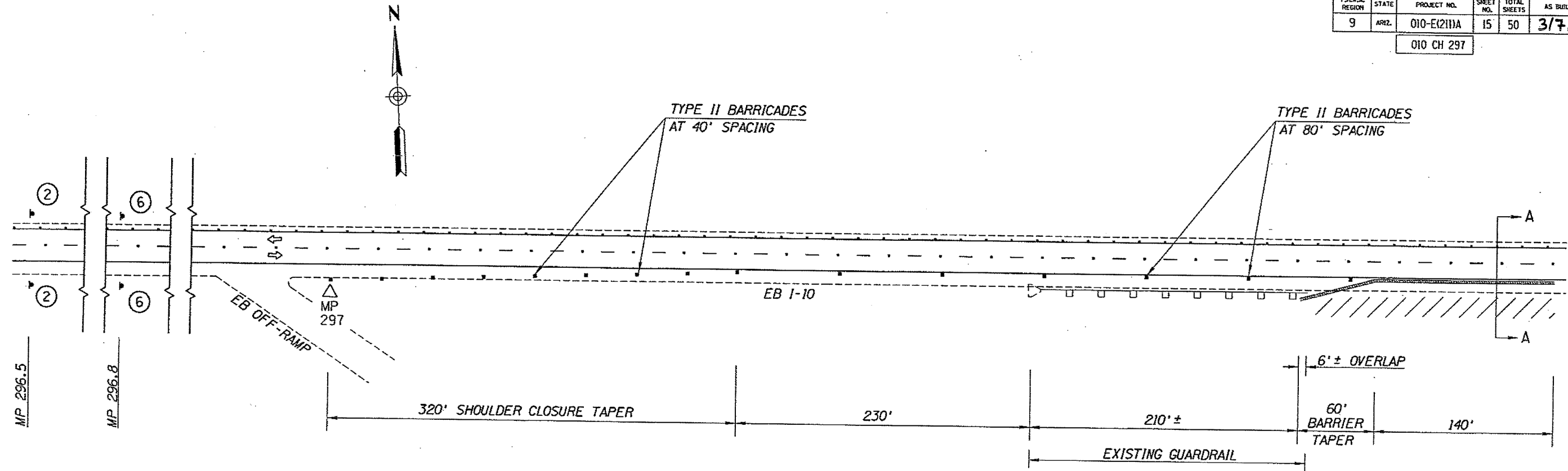
1. THE CONTRACTOR SHALL TEMPORARILY COVER THE ADVANCE PROJECT SIGNING ON I-10 WHICH CONFLICTS WITH THE SIGNING FOR THIS TRAFFIC CONTROL SETUP.
2. THESE PLANS SHOW CONCURRENT EB AND WB I-10 FULL ROADWAY CLOSURES. HOWEVER, THE CONTRACTOR MAY CLOSE THE EB AND WB I-10 ROADWAYS SEPARATELY PER THE TRAFFIC CONTROL NOTES AND SPECIAL PROVISIONS.

SYMBOL LEGEND:

	SIGN ON SPRING STAND
	TYPE II BARRICADE
	TYPE III BARRICADE
	SIGN ON TYPE III BARRICADE
	FLASHING ARROW PANEL
	DIRECTION OF TRAVEL

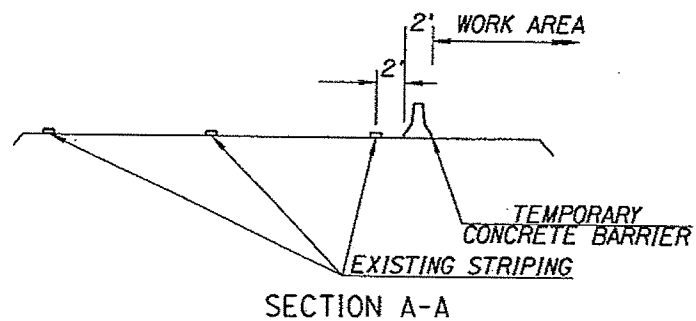
DESIGN	C. LITIN	4-11	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION
DRAWN	E. GOODMAN	4-11	
CHECKED	CAMPBELL/RASHID	4-11	
TEAM LEADER	C. LITIN	4-11	
LOCATION: I-10 Mescal Road TI UP #0517			
TRACS NO. H8336 01C			
010-E(211)A			EXPRESS 6-30-12 SHEET 12 OF 15 17 OF 55

F.U.R.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	15	50	3/7/12
010 CH 297					



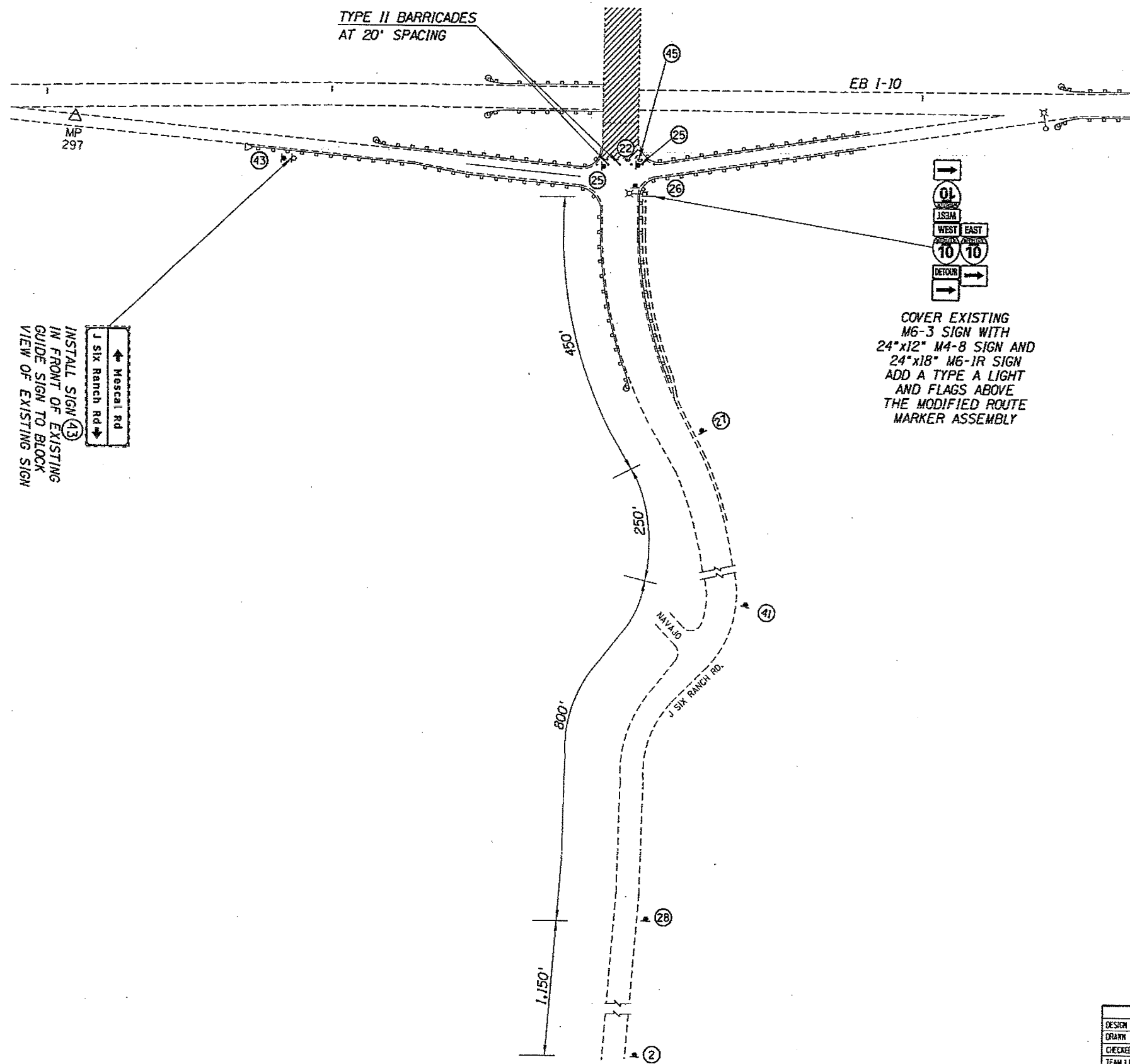
SYMBOL LEGEND:

	SIGN ON EMBEDDED POST(S)
	TYPE II BARRICADE
	DIRECTION OF TRAVEL
	TEMPORARY CONCRETE BARRIER SEE STD. DWG. C-3 FOR DETAILS.
	WORK AREA



DESIGN	C. LITIN	4-11	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION	
DRAWN	E. GOODMAN	4-11		
CHECKED	CAMPBELL/RASHID	4-11		
TEAM LEADER	C. LITIN	4-11		
LOCATION	I-10		MESCAL ROAD TI UP #0517	EXPIRES 6-30-12
TRACS NO.	H8336 01C		010-E(211)A	SHEET 13 OF 15
				18 OF 55

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	16	50	3/7/12
010 CH 297					



INSTALL SIGN (43)
IN FRONT OF EXISTING
GUIDE SIGN TO BLOCK
VIEW OF EXISTING SIGN

COVER EXISTING
M6-3 SIGN WITH
24"x12" M4-8 SIGN AND
24"x18" M6-1R SIGN
ADD A TYPE A LIGHT
AND FLAGS ABOVE
THE MODIFIED ROUTE
MARKER ASSEMBLY

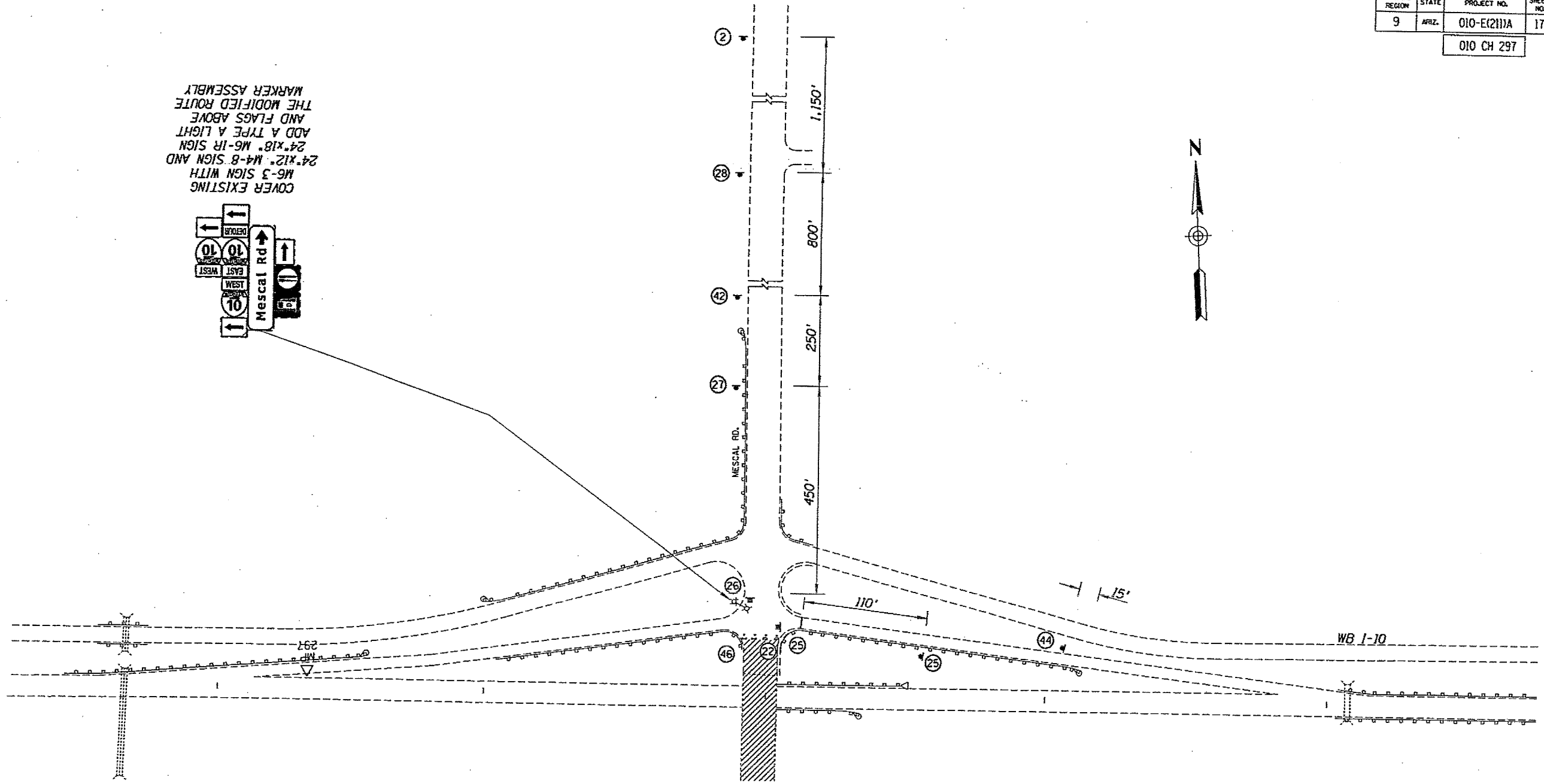
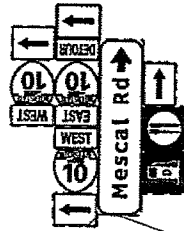
SYMBOL LEGEND:

	SIGN ON EMBEDDED POST(S)
	SIGN ON RIGID STAND
	TYPE II BARRICADE
	DIRECTION OF TRAVEL
	WORK AREA

DESIGN	C. LITIN	4-11	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION	
DRAWN	E. GODDARD	4-11		
CHECKED	CAMPBELL/RASHID	4-11		
TEAM LEADER	C. LITIN	4-11		
LOCATION	1-10 Mescal Road TI UP *0517		TRAFFIC CONTROL PLANS CROSSROAD SIGN LOCATIONS J SIX RANCH RD.	
TRACS NO.	H8336 01C	010-E(211)A	EXPIRES 6-30-12 SHEET 14 OF 15 19 OF 55	

F.R.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	17	50	3/7/12
010 CH 297					

COVER EXISTING M6-3 SIGN WITH 24"x12" M4-8 SIGN AND 24"x18" M6-1R SIGN ADD A TYPE A LIGHT AND FLAGS ABOVE THE MODIFIED ROUTE MARKER ASSEMBLY



SYMBOL LEGEND:

	SIGN ON EMBEDDED POST(S)
	SIGN ON RIGID STAND
	DIRECTION OF TRAVEL
	TEMPORARY CONCRETE BARRIER SEE STD. DWG. C-3 FOR DETAILS.
	WORK AREA
	TYPE II BARRICADE

DESIGN	C. LITIN	4-11	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION
DRRAW	E. GOODMAN	4-11	
CHECKED	CAMPBELL/RASHID	4-11	
TEAM LEADER	C. LITIN	4-11	
LOCATION			TRAFFIC CONTROL PLANS CROSSROAD SIGN LOCATIONS MESCAL RD.
I-10 MESCAL ROAD TI UP *0517			
TRACS NO. H8336 01C		010-E(211)A	
			EXPIRES 6-30-12 SHEET 15 OF 15 20 OF 55

NO. 1 DESCRIPTION OF REVISION DATE NO. 2 DESCRIPTION OF REVISION DATE

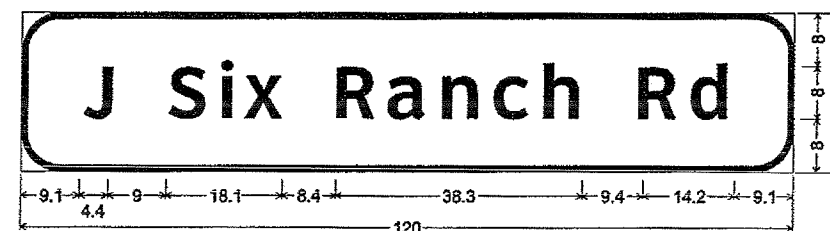
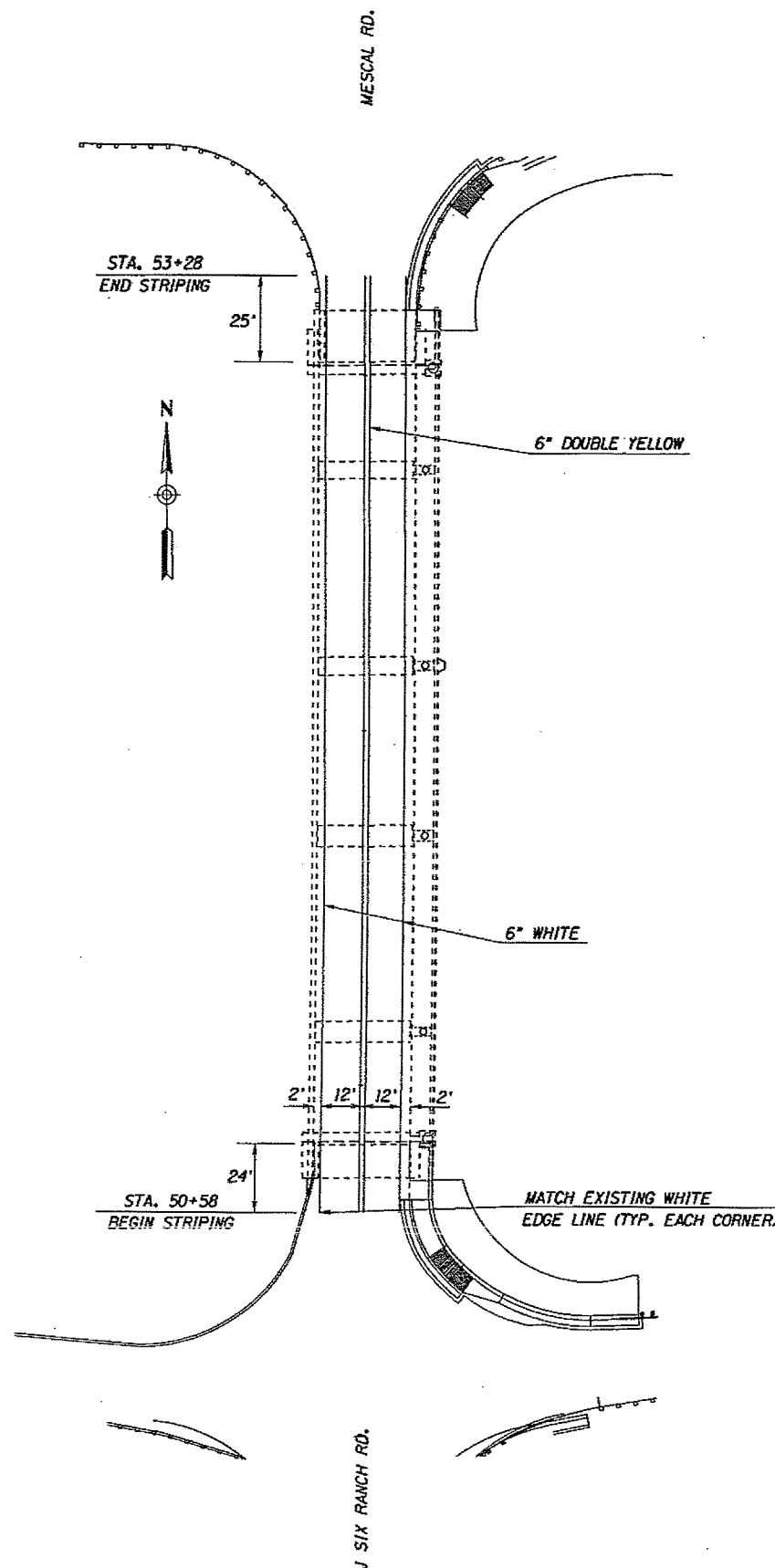
F.H.R.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	18	50	3/7/12
010 CH 297					

PAVEMENT MARKING NOTES:

1. THE CONTRACTOR SHALL APPLY 90 MIL (0.090 INCH) THICK ALKYD EXTRUDED THERMOPLASTIC REFLECTORIZED STRIPING APPROXIMATELY 7 CALENDAR DAYS AFTER THE COMPLETION OF THE NEW BRIDGE DECK. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL NOT APPLY PAINT ON THE NEW DECK.
2. THE CONTRACTOR SHALL REMOVE THE CURING COMPOUND AND APPLY PRIMER-SEALER BEFORE INSTALLING THE FINAL STRIPING ON THE NEW CONCRETE BRIDGE DECK AND APPROACH SLABS FOR A WIDTH OF 10 INCHES PER LINE OF STRIPING IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
3. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE ENGINEER, BY SWEEPING AND AIR-JET BLOWING, IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE ROADWAY SURFACE SHALL BE DRY AND THE AIR AND PAVEMENT TEMPERATURES SHALL NOT BE LESS THAN 55° F FOR THE PLACEMENT OF THERMOPLASTIC STRIPING.
4. WHEN STRIPE OBLITERATION IS NECESSARY, IT SHALL BE ACCOMPLISHED BY APPROVED METHODS. PAINTING OVER STRIPING, REMOVAL OF PAVEMENT OR CONCRETE, AND OVERLAYING PAVEMENT OR CONCRETE DO NOT CONSTITUTE STRIPE OBLITERATION.
5. THE CONTRACTOR SHALL DELINEATE THE NEW BRIDGE BARRIER WALL WITH NEW BM-1 (WHITE) BARRIER MARKERS IN ACCORDANCE WITH STD. DWGS. M-32 AND M-33. THE CONTRACTOR SHALL AFFIX A MINIMUM OF SEVEN EVENLY-SPACED BM-1 BARRIER MARKERS. THERE SHALL BE NO MEASUREMENT OR PAYMENT FOR THE BARRIER MARKERS.
6. THE ENGINEER MAY MODIFY THE PAVEMENT MARKING PLANS.

SIGNING NOTES:

1. ALL SIGNS SHALL BE IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE ADOT SIGNING AND MARKING STANDARD DRAWINGS, AND THE TRAFFIC ENGINEERING MANUAL OF APPROVED SIGNS.
2. THE CONTRACTOR SHALL INSTALL THE NEW GUIDE SIGN ON THE WESTERN BRIDGE FASCIA, APPROXIMATELY CENTERED IN THE MEDIAN (MINIMUM 6 FEET DISTANCE FROM THE RIGHT EDGE OF THE SIGN TO THE MEDIAN SIDE EDGE OF PAVEMENT OF I-10), FACING WEST (FACING EB I-10 TRAFFIC).
3. THE NEW GUIDE SIGN SHALL BE FABRICATED OF FLAT SHEET ALUMINUM AS INDICATED IN SECTION 608.
4. THE RETROREFLECTIVE SHEETING ON THE NEW GUIDE SIGN SHALL MEET THE CRITERIA ESTABLISHED FOR TYPE IX OR XI SHEETING IN ASTM D4956.
5. THE CONTRACTOR SHALL NOT OVERLAY THE SIGN PANEL.
6. THE CONTRACTOR SHALL USE ONLY CADMIUM PLATED OR ZINC PLATED STEEL WASHERS, NOT NYLON WASHERS, BETWEEN EACH BOLT HEAD AND THE FACE OF THE SIGN PANEL. THE WASHERS SHALL NOT BE PAINTED.
7. THE BOLTS USED TO INSTALL THE NEW SIGN SHALL NOT BE PAINTED.
8. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING FOR THE NEW GUIDE SIGN PANEL.
9. THE ENGINEER MAY MODIFY THE SIGNING PLANS.



NEW GUIDE SIGN (WEST SIDE, TO THE NORTH OF EB I-10, PER SIGNING NOTE 2)
 GREEN TYPE IX OR XI SHEETING WITH WHITE COPY, CLEARVIEWHWY-5-W TEXT (ITEM 6080025)
 6 IN. RADII, 1 IN. BORDER

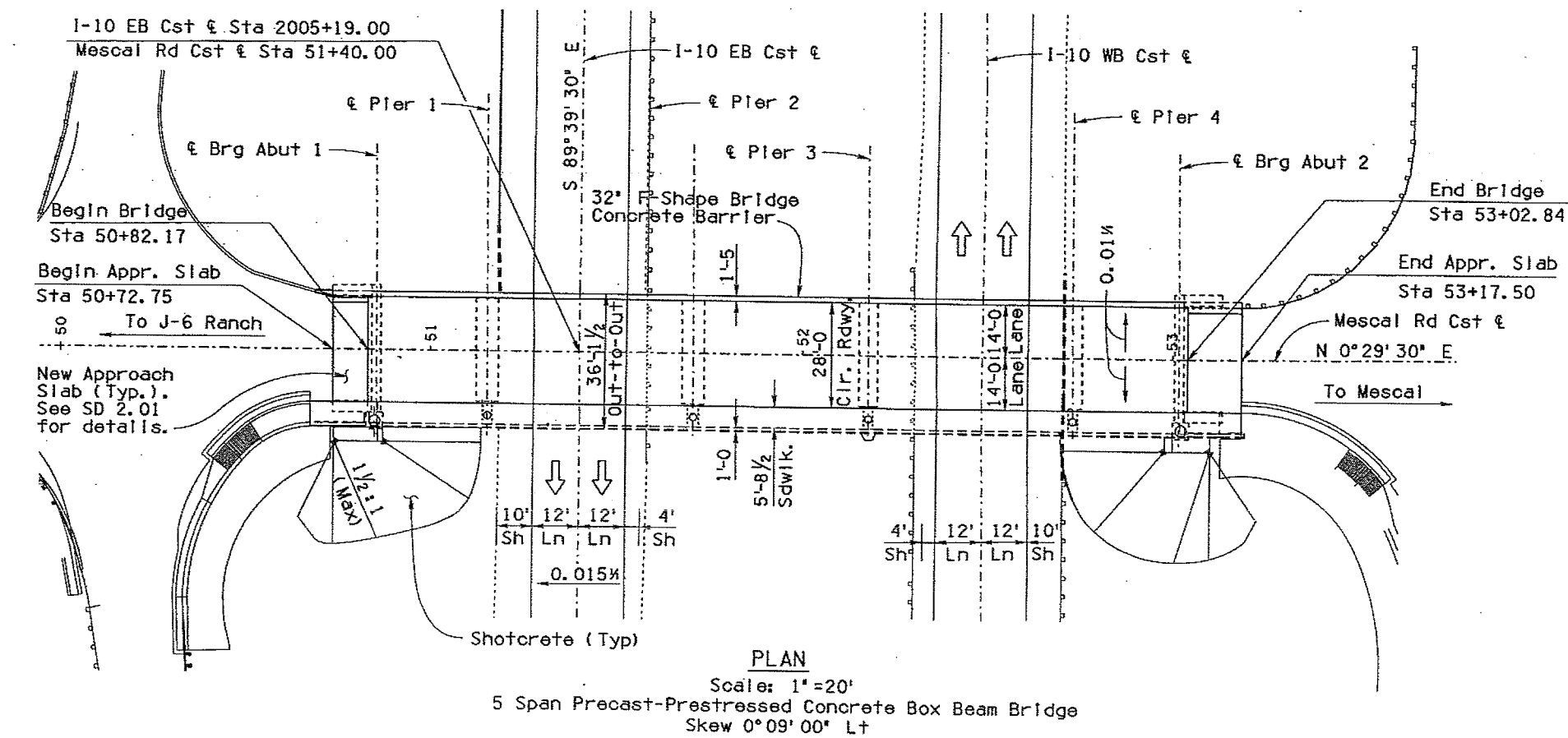
APPROXIMATE PAVEMENT MARKING QUANTITIES			
ITEM		UNIT	QUANTITIES
PERMANENT THERMOPLASTIC PAVEMENT MARKING	4" WHITE	L.F.	1,620
	4" YELLOW	L.F.	1,620
REMOVE CURING COMPOUND		L.F.	2,450
PRIMER SEALER		L.F.	2,450

* PAVEMENT MARKING QUANTITIES REFLECT 4" EQUIVALENTS.

DESIGN	C. LITIN	4-11	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC DESIGN SECTION	
DRAWN	E. GOODMAN	4-11		
CHECKED	CAMPBELL/RASHID	4-11		
TEAM LEADER	C. LITIN	4-11		
GENERAL NOTES, PAVEMENT MARKING PLAN AND QUANTITIES, AND SIGN FORMAT			LOCATION: I-10 MESCAL ROAD TI UP #0517 TRACS NO. H8336 01C PROJECT NO. 010-E(211)A SHEET 1 OF 1 21 OF 55	

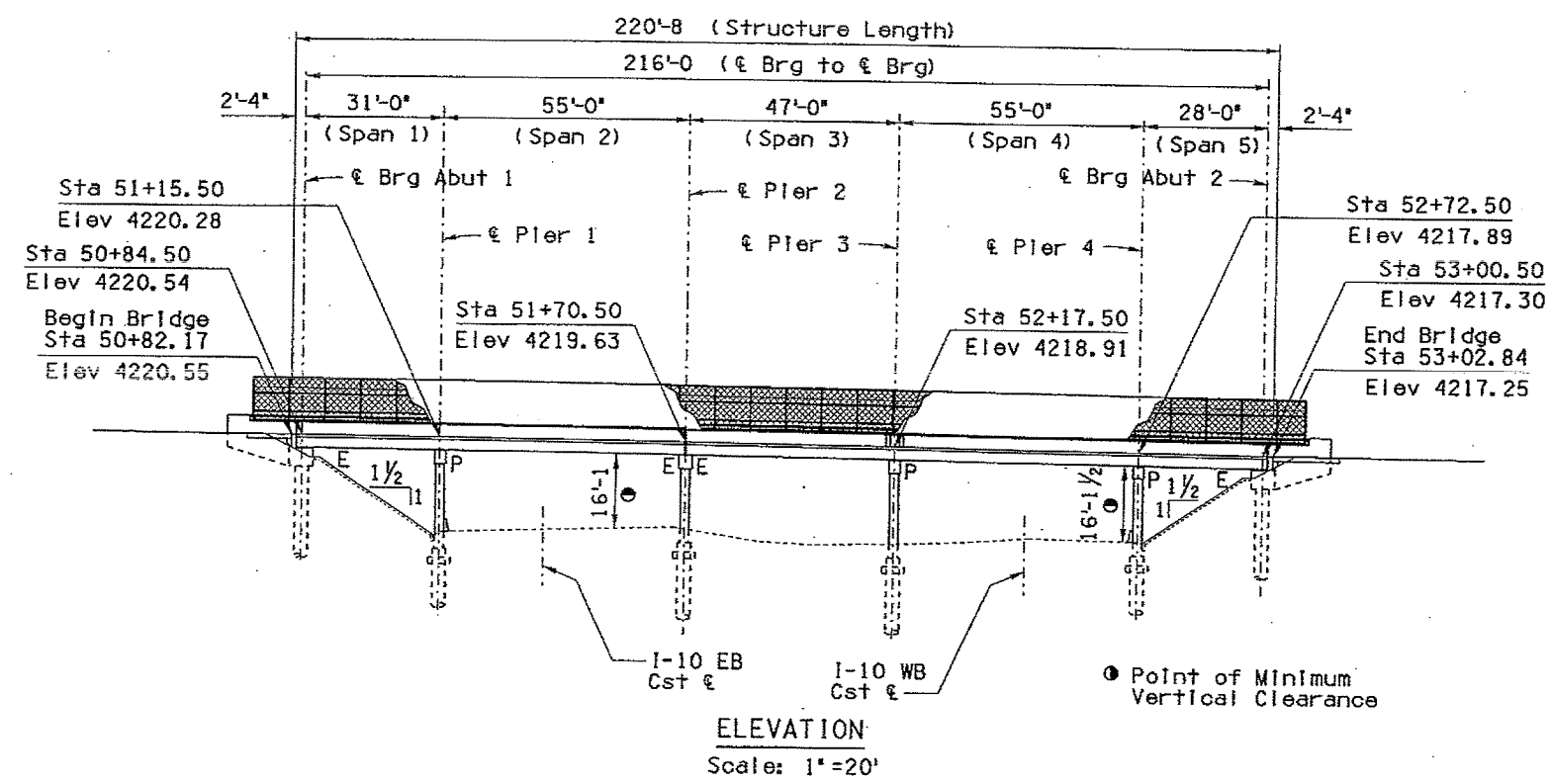
TUCSON-BENSON HWY (I-10)
Mescal Road TI UP
COCHISE COUNTY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	19	50	3/7/12
010 CH 297					



DRAWING LIST

TITLE	DRAWING NO.
GENERAL PLAN AND ELEVATION	S-1.1
TYPICAL SECTION	S-1.2
NOTES AND QUANTITIES	S-1.3
BEARING PAD DETAILS	S-1.4 & S-1.5
STRUCTURAL EXCAVATION & BACKFILL	S-1.6
REMOVAL DETAILS	S-1.7 & S-1.8
BRIDGE REPAIR PLAN	S-1.9
ABUTMENT PLAN & ELEVATION	S-1.10
ABUTMENT DETAILS	S-1.11
PIER PLAN & ELEVATION	S-1.12 Thru S-1.14
PIER DETAILS	S-1.15 Thru S-1.17
FRAMING PLAN & DETAILS	S-1.18
PRECAST BOX GIRDER DETAILS 1	S-1.19
PRECAST BOX GIRDER DETAILS 2	S-1.20
PRECAST BOX GIRDER DETAILS 3	S-1.21
PRECAST BOX GIRDER DETAILS 4	S-1.22
PRECAST BOX GIRDER DETAILS 5	S-1.23
DECK PLAN	S-1.24
DECK CROSS SECTION	S-1.25
MISCELLANEOUS DETAILS	S-1.26 & S-1.27
CAMBER DETAILS	S-1.28
SCREED ELEVATIONS	S-1.29

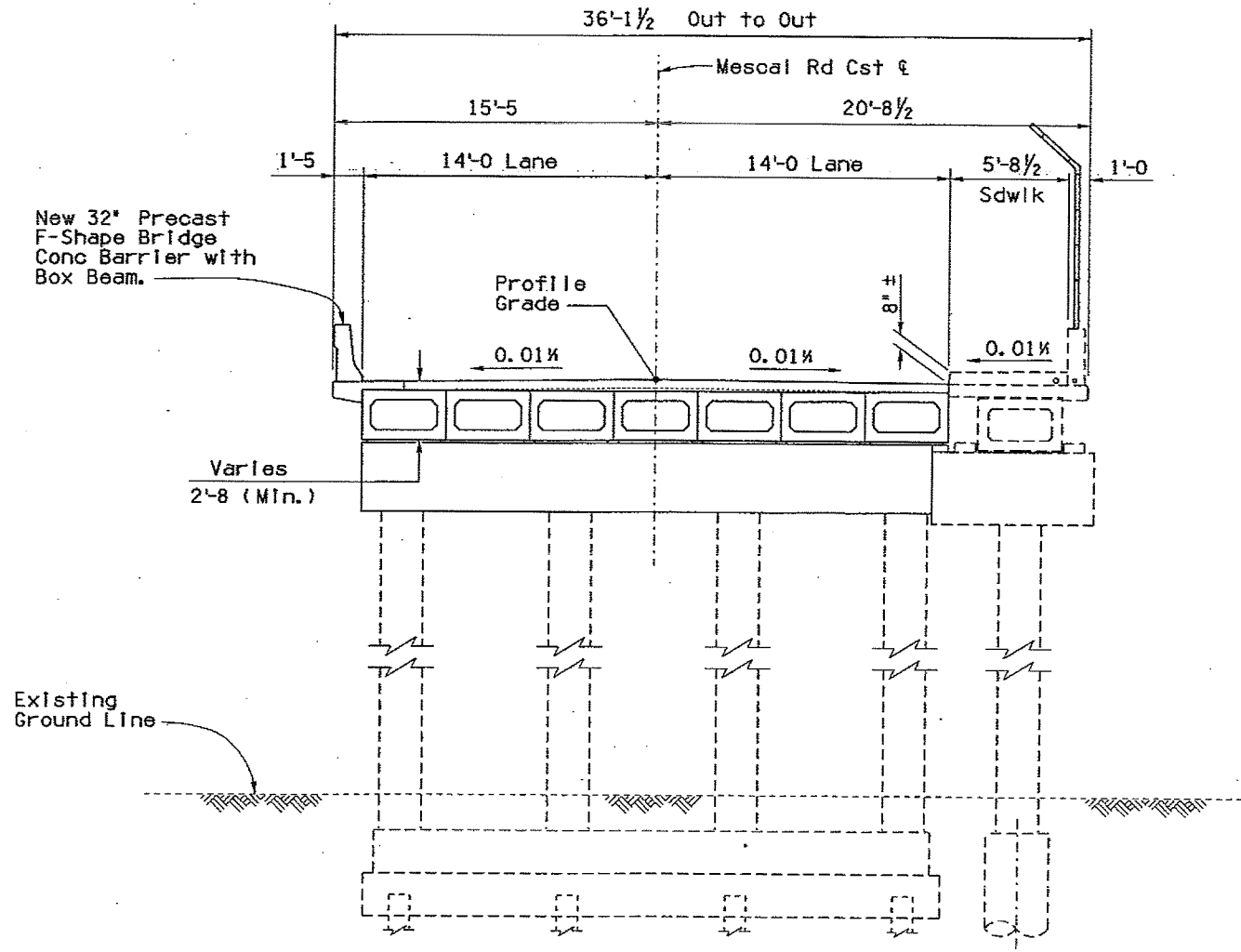


Original bridge was constructed by the Arizona Highway Department in 1959 under Project Number I-002-4(7). Bridge Rails were replaced in 1993 under Project Number IM-10-5(70). Pedestrian Sidewalk widening was constructed in 2003 under Project Number STP-010-E(2)P

DESIGN		R. Viboolmata	03-11	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STA. 50+ Mescal Road TI UP GENERAL PLAN AND ELEVATION	
DESIGN CKD		R. Davis	03-11		
DRAWN		R. Yingling	03-11		
CHKD		R. Davis	03-11		
APPROVED-PROJ. ENGINEER		R. Viboolmata	04-11		
APPROVED-DESIGN LEADER		R. Viboolmata	04-11		
I-10 ROUTE	297.17 MILEPOST	0517 STRUCTURE NO.	LOCATION Mescal Road TI UP #0517		
TRACS NO. H 8336 01C			010-E(211)A		DWG. S-011 OF 29
					22 OF 55






F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	20	50	3/7/12

010 CH 297

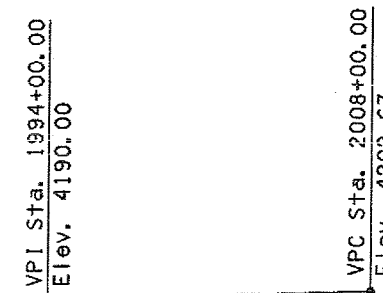


TYPICAL SECTION
Scale: 1/4" = 1'-0"

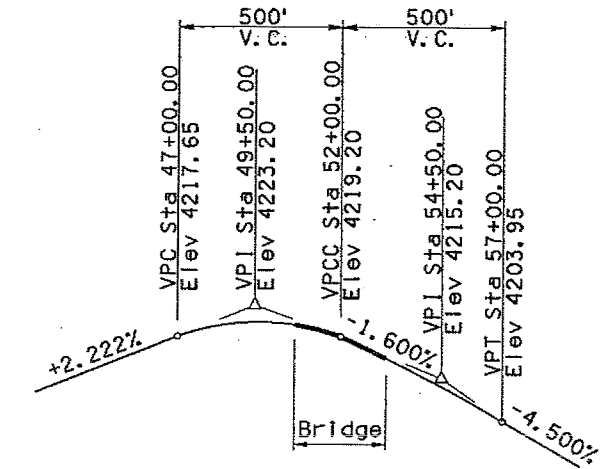
LEGEND:

- Title/Detail Marker  Detail Number
- Section Marker  Section Number
- Dwg. Number  Dwg. Number
- Elevation Marker  Elevation Number
- Dwg. Number  Dwg. Number

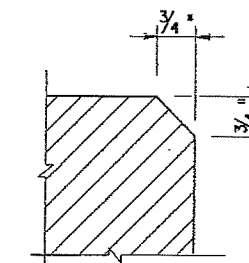
NOTE:
The Profile Grades for EB I-10 and Mescal Road are as per the as-built drawings.



EXISTING PROFILE GRADE-EB I-10
N. T. S.

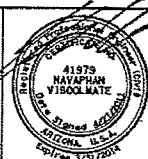


EXISTING PROFILE GRADE - MESCAL ROAD
N. T. S.



Chamfer all exposed corners thus unless otherwise noted. This note applicable to all sheets pertaining to the structure.

CHAMFER DETAIL
N T S

BRIDGE DESIGN SECTION BY			DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP		
DESIGN	M. Viboolmate	03-11				
DESIGN CKD	R. Davis	03-11				
DRAWN	R. Yingling	03-11				
DWG CKD	R. Davis	03-11				
APPROVED-PROJ. ENGINEER	M. Viboolmate	04-11				
APPROVED-DESIGN LEADER	M. Viboolmate	04-11				
I-10 ROUTE	297.17 MILEPOST	0517 STRUCTURE NO.	LOCATION	STA. 50+ MESCAL ROAD TI UP TYPICAL SECTION		
TRACS NO. H 8336 01C			MESCAL ROAD TI UP *0517			DWG. S-012 OF 29
			010-E(211)A			23 OF 55

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	21	50	3/7/12

010 CH 297

GENERAL NOTES

Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, Edition of 2008

Design Specifications - AASHTO Standard Specifications for Highway Bridges, 17th Edition 2002.

Dead Load - Dead Load includes allowance of 25 pounds per square foot for future wearing surface.

Loading Class - HS20-44.

Composite Design - Dead load carried by girders only. Girders are designed with transformed section properties.

Seismic Performance Category A (Acc = 0.045 g).

Inventory and operating ratings for HS20 are in accordance with AASHTO Manual for Condition Evaluation of Bridges. Edition of 1994 and Interim

Inventory Rating HS - 22.8
Operating Rating HS - 57.6

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

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

All bends and hooks shall meet the requirements of AASHTO Article 8.23. 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 inch clear cover unless noted otherwise.

Stresses:

Superstructure except Conc. Parapet ... f'c = 4500 psi
F-Shape Conc. Barrier..... f'c = 4500 psi
All other Class "S" Concrete f'c = 3500 psi
All Grade 60 reinf..... fs = 24000 psi

Dimensions shall not be scaled from drawings.

All stations and dimensions shown are based on 'As built' plans. Stations, elevations, and dimensions in field may vary from those shown. Contractor shall verify all relevant dimensions in field prior to fabrication of all materials.

The cost of the anchor bolts and associated hardware is included in the cost of precast Box Beam.

All elevations shown on plans can and will be revised pending Engineers review of existing deck survey performed by Contractor.

Bridge shall be painted. See Section 610 of the Specifications

	Class "S" Concrete (C. Y.)		ReInf. Steel (Lbs)	Epoxy ReInf. Steel (Lbs.)	Box Beam B1-48 (L. F.)	Struc. Excav. (Cu. Yd)	Struc. Backfill (Cu. Yd)
	f' c=3500	f' c=4500					
Abut. #1	10		940			25	15
Pier #1	25		5535			20	15
Pier #2	10		1730				
Pier #3	10		1705				
Pier #4	10		1705				
Abut. #2	10		940			35	15
Superstructure		125		17,500	1502		
Total	75	125	12,560	17,500	1502	80	45

Structural Concrete Removal 30 CY
Place Dowels 350 EA 220 EA
F-Shape Concrete Barrier and Transition (32')..... 222 LF
Deck Joint Assembly (2x2 Compression Seal) 56 L.FT
Deck Joint Assembly (3x3 Compression Seal) 28 L.FT
Restrainers, Vertical Earthquake (Fixed) 21 EA
Approach Slab 670 SF
Removal of Asphaltic Concrete 82 SQ. YD.
~~Shotcrete~~..... 20 SQ. YD.
3,000 psi Concrete


F-Shape Conc. Barrier
Abut#1 to Pier #1 (28LF)
f'c = 4000 psi
per CO#4

EXISTING REINFORCING/DOWEL NOTE

Any existing reinforcing that can not be incorporated into the new structure as indicated on the plans (i.e. not properly aligned, badly corroded, broken etc.) shall be replaced with dowels of equal size in accordance with the DOWEL NOTE.

SD DRAWING LIST

Structure Details Drawing: SD 1.01, SD 1.03, SD 2.01, SD 3.01

BRIDGE DESIGN SECTION #			DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP	
DESIGN	N. Viboolmate	03-11			
DESIGN CKD	R. Davis	03-11			
DRAWN	S. Nickel	03-11			
DWG CKD	R. Davis	03-11			
APPROVED-PROJ. ENGINEER	N. Viboolmate	04-11			
APPROVED-DESIGN LEADER	N. Viboolmate	04-11			
1-10	297.17	0517	LOCATION	STA. 50+ MESCAL ROAD TI UP NOTES AND QUANTITIES	
ROUTE	MILEPOST	STRUCTURE NO.	MESCAL ROAD TI UP #0517		
TRACS NO. H 8336 OIC			010-E(211)A		
				DWG. S-01.3 OF 29	24 OF 55

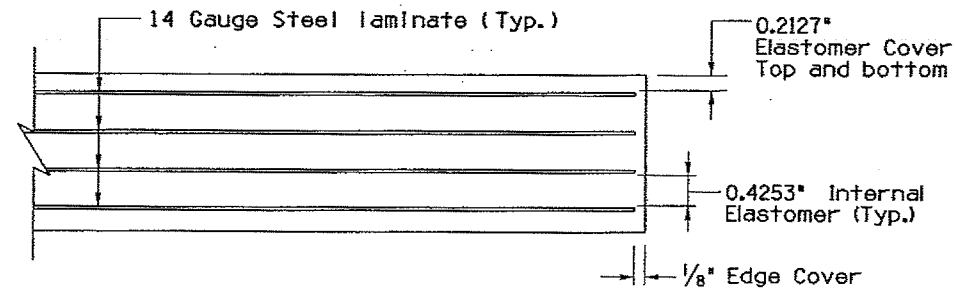
F.A.M.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	22	50	3/7/12
010 CH 297					

NOTE:

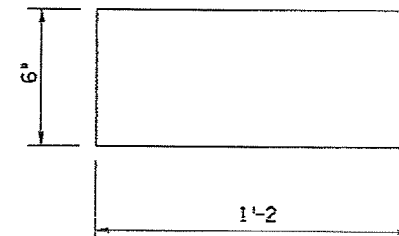
There is no separate payment for these pads. The cost shall be incidental to the cost of Precast Box beam

DESIGN

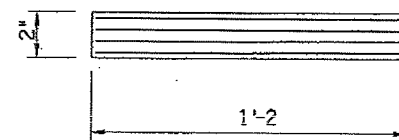
Design Method A
 Design Load = 75 kips
 Low Temperature Zone B
 Elastomeric Grade 3
 Shear Modulus G = 130 psi Durometer Hardness 55
 Elastomeric Bearing Pads shall be Steel laminated Neoprene Pads.



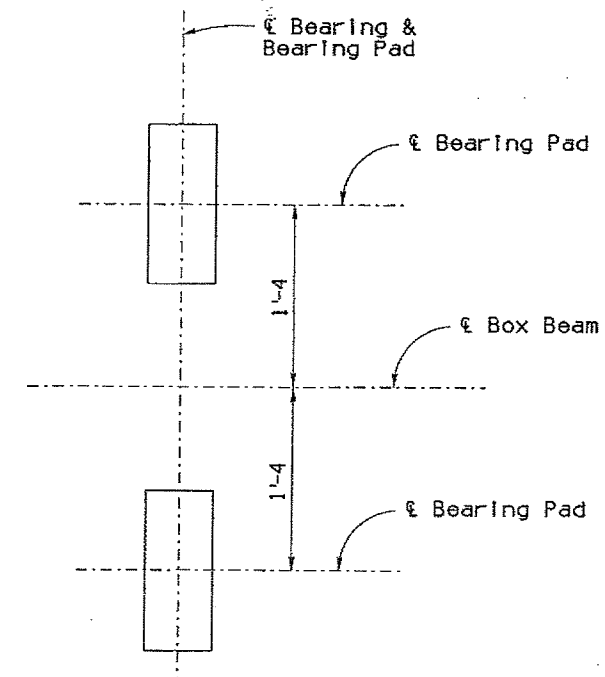
BEARING PAD TYPICAL SECTION
N.T.S



BEARING PAD PLAN
Scale: 3" = 1'-0



BEARING PAD ELEVATION
Scale: 3" = 1'-0



BEARING PAD LOCATION PLAN
Scale: 1 1/2" = 1'-0

BRIDGE DESIGN SECTION #			DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP	
DESIGN	N. Viboolmate	03-11			
DESIGN CKD	R. Davis	03-11			
DRAWN	S. Nickel	03-11			
DWG CKD	R. Davis	03-11			
APPROVED-PROJ. ENGINEER	N. Viboolmate	04-11			
APPROVED-DESIGN LEADER	N. Viboolmate	04-11			
I-10 ROUTE	297.17 MILEPOST	0517 STRUCTURE NO.	LOCATION	STA. 50+ MESCAL ROAD TI UP BEARING PAD DETAILS 1	
TRACS NO. H 8336 OIC				010-E(211)A	DWG. S-01.4 OF 29
					25 OF 55

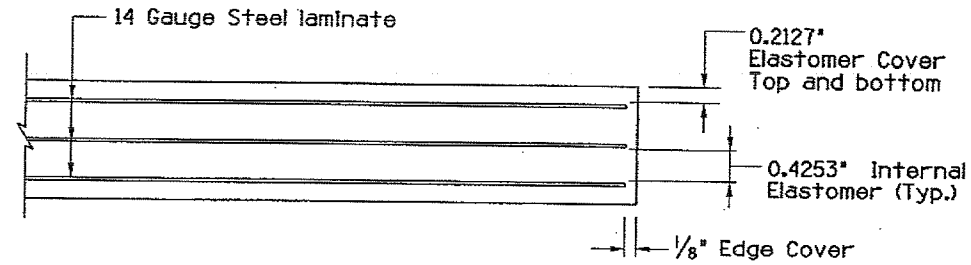
F.J.M.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	23	50	3/7/12
010 CH 297					

NOTE:

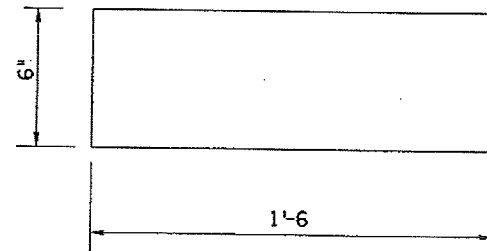
Cost of pads are included into item 6015203
 Quantity in place = 6 pads
 Additional pads for testing = 2 pads
 No separate payment will be made for test pads.
 The cost is incidental to the item 6015203

DESIGN

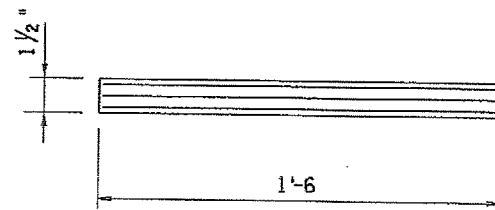
Design Method A
 Design Load = 53 kips
 Low Temperature Zone B
 Elastomeric Grade 3
 Shear Modulus G = 130 psi Durometer Hardness 55
 Elastomeric Bearing Pads shall be Steel laminated Neoprene Pads.



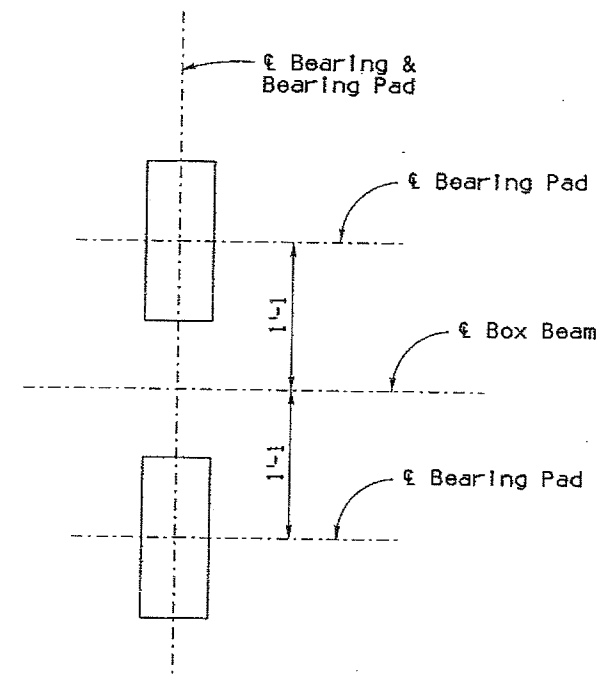
BEARING PAD TYPICAL SECTION
 N. T. S



BEARING PAD PLAN
 Scale: 3" = 1'-0



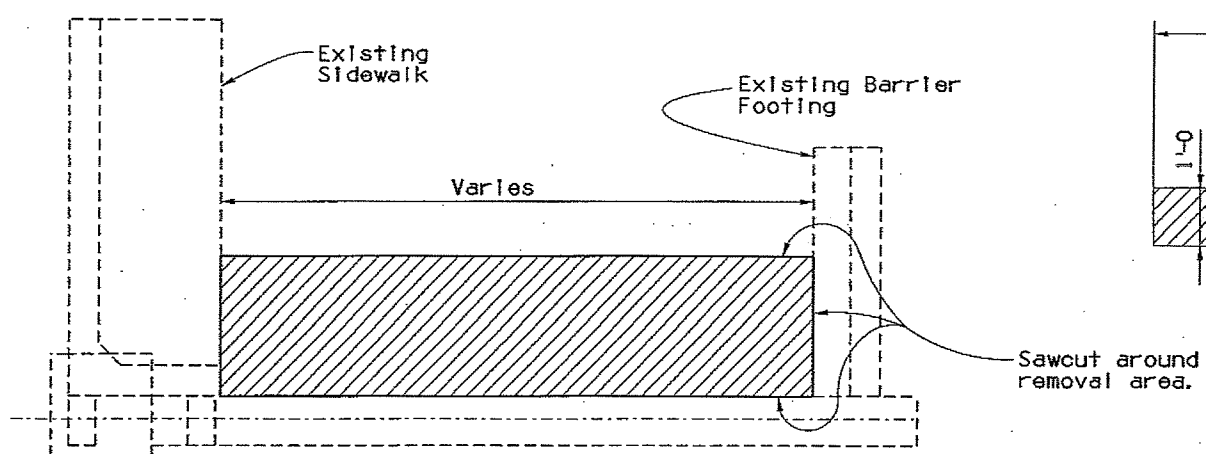
BEARING PAD ELEVATION
 Scale: 3" = 1'-0



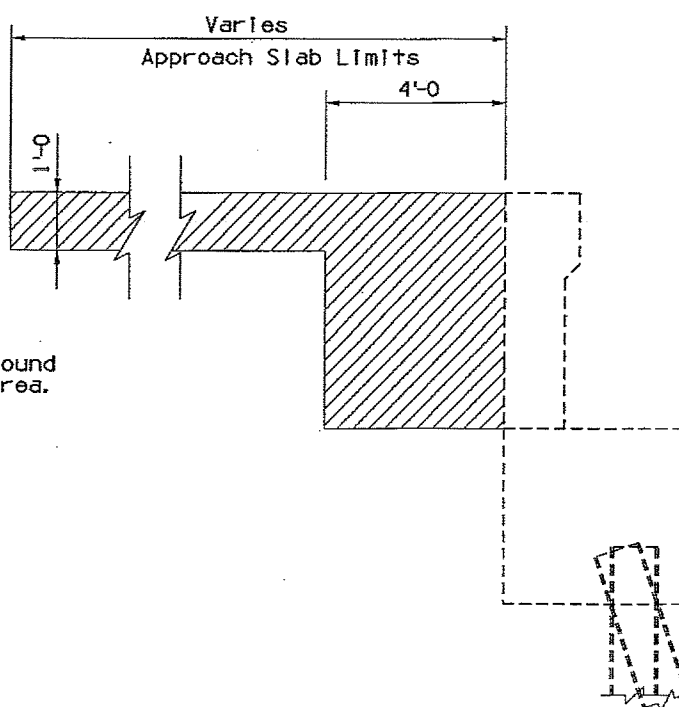
BEARING PAD LOCATION PLAN
 Scale: 1 1/2" = 1'-0

BRIDGE DESIGN SECTION #			DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP	
DESIGN	N. Viboolmate	03-II			
DESIGN CKD	R. Davis	03-II			
DRAWN	S. Nickel	03-II			
DWG CKD	R. Davis	03-II			
APPROVED-PROJ. ENGINEER	N. Viboolmate	04-II			
APPROVED-DESIGN LEADER	N. Viboolmate	04-II			
1-10	297.17	0517	LOCATION	STA. 50+ MESCAL ROAD TI UP BEARING PAD DETAILS 2	
ROUTE	MILEPOST	STRUCTURE NO.	MESCAL ROAD TI UP #0517		
TRACS NO. H 8336 01C			010-E(211)A		DWG. S-01.5 OF 29

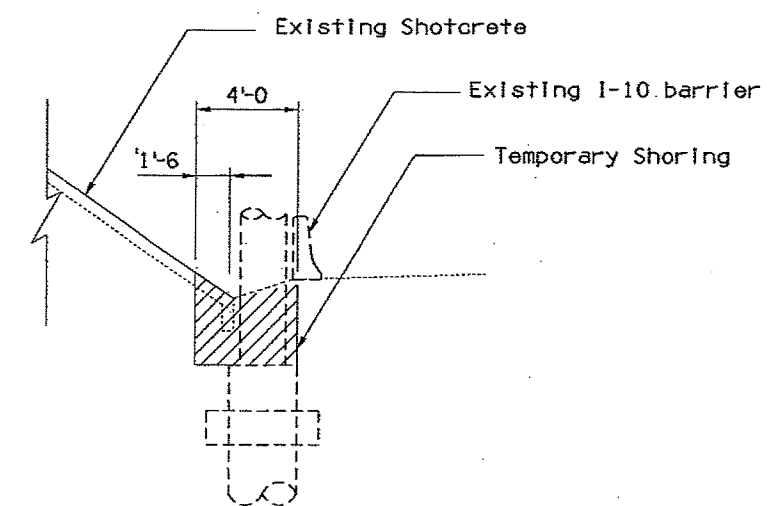
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	24	50	3/7/12
010 CH 297					



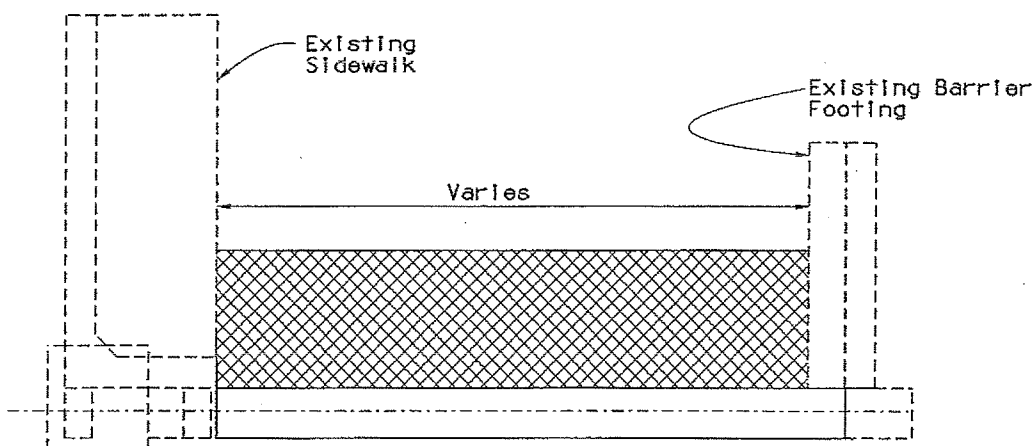
TYPICAL ABUTMENT PLAN



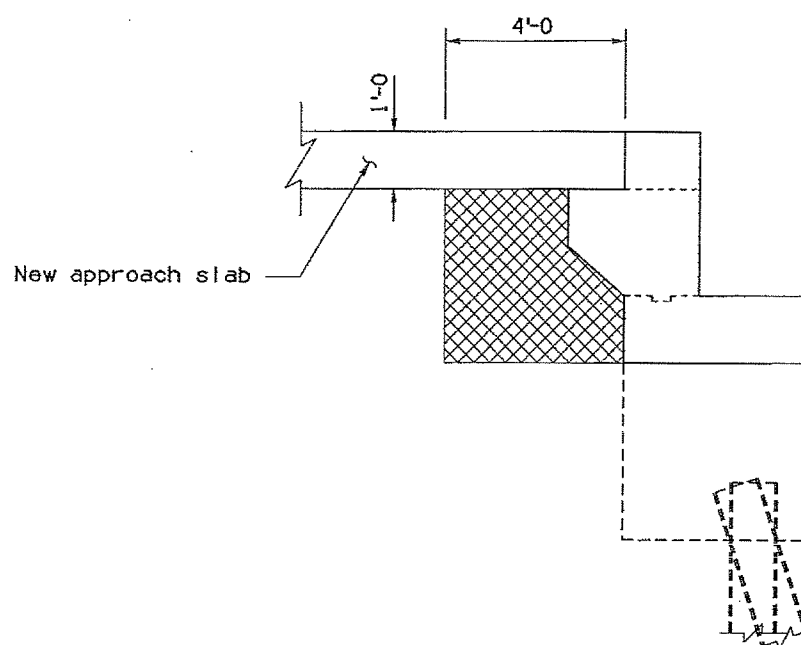
TYPICAL ABUTMENT SECTION



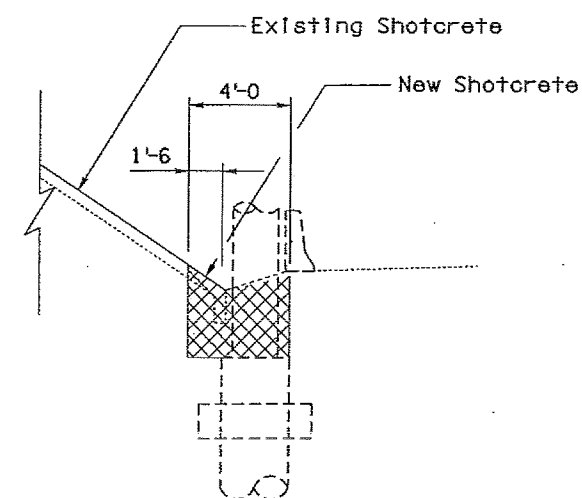
TYPICAL PIER 1



TYPICAL ABUTMENT PLAN



TYPICAL ABUTMENT SECTION



TYPICAL PIER 1

NOTES

Indicates Structural Excavation

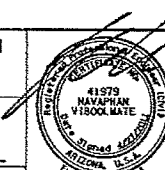
Indicates Structure Backfill.

Structure backfill will be compacted to a minimum of 100% of the maximum density.

SHORING NOTE:

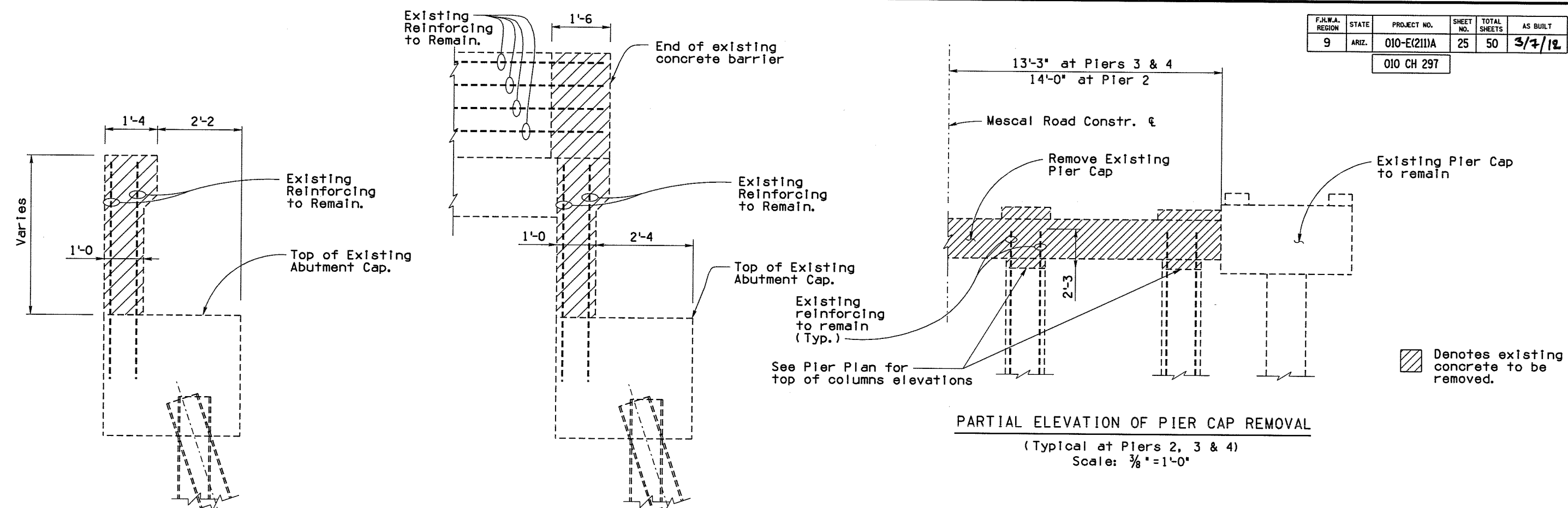
Temporary shoring is required the cost shall be incidental to structural excavation cost.

BRIDGE DESIGN SECTION 05			DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP	
DESIGN	N. Viscosmate	03-11		STA. 50+ MESCAL ROAD TI UP STRUCTURAL EXCAV & BACKFILL	
DESIGN CKD	R. Davis	03-11			
DRAWN	R. Yingling	03-11			
ENG CKD	R. Davis	03-11			
APPROVED-PRCL ENGINEER	N. Viscosmate	04-11			
APPROVED-DESIGN LEADER	N. Viscosmate	04-11			
I-10 ROUTE	297.17 MILEPOST	0517 STRUCTURE NO.	LOCATION	MESCAL ROAD TI UP *0517	
TRACS NO. H 8336 OIC				010-E(211)A	DWG. S-01.6 OF 29



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	25	50	3/7/12

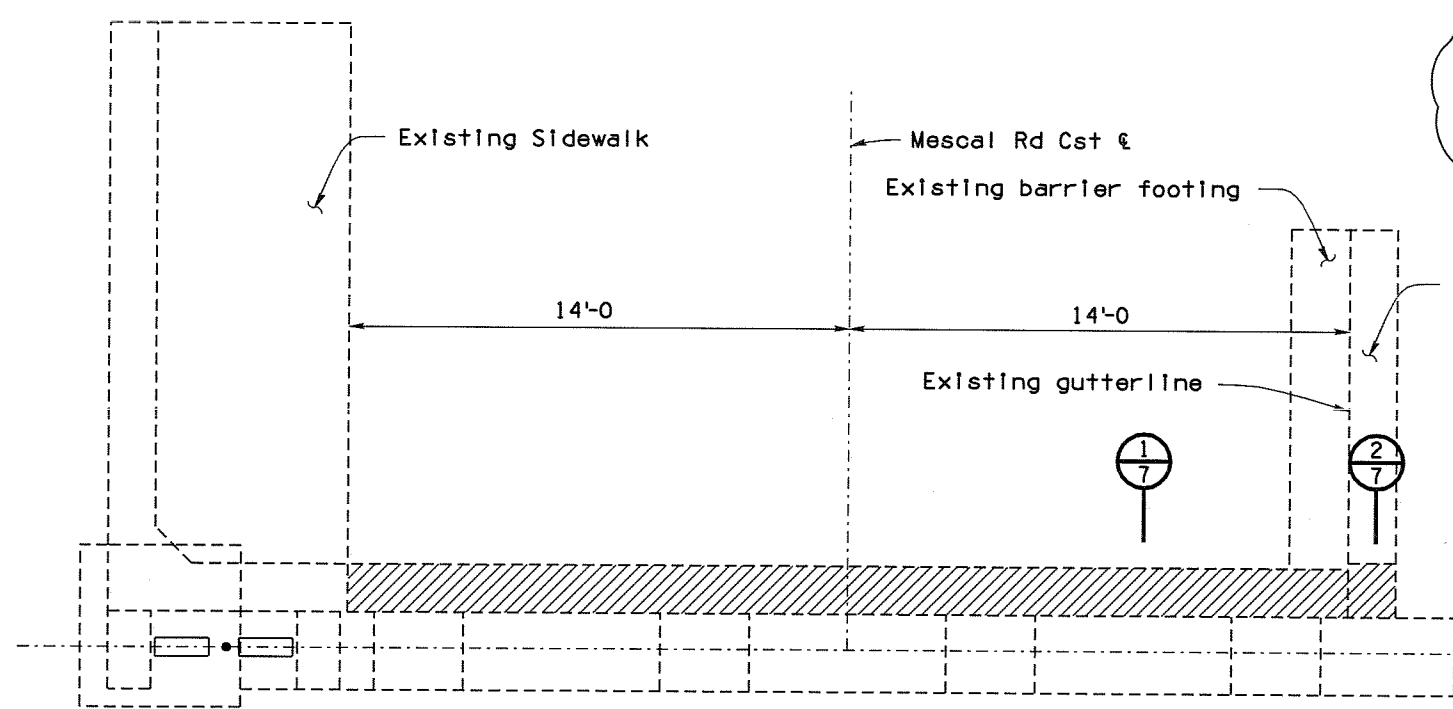
010 CH 297



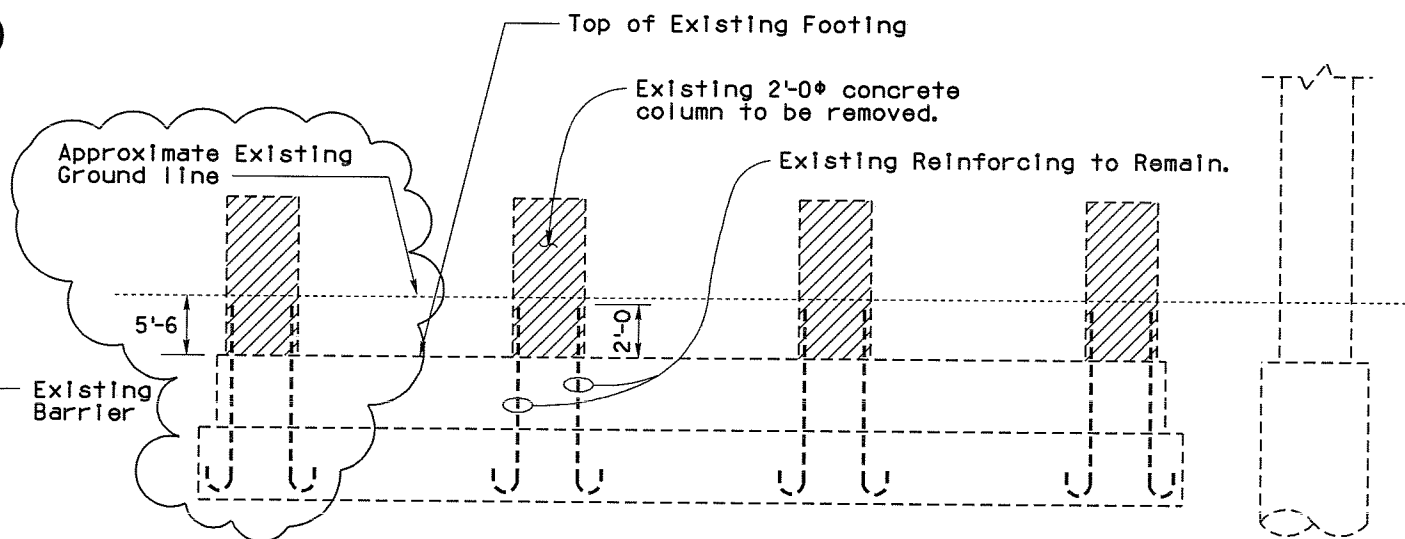
PARTIAL ELEVATION OF PIER CAP REMOVAL
(Typical at Piers 2, 3 & 4)
Scale: 3/8" = 1'-0"

SECTION 1
(Typical at Abutments 1 and 2)
Scale: 3/4" = 1'-0"

SECTION 2
(Typical at Abutments 1 and 2)
Scale: 3/4" = 1'-0"



ABUTMENT BACKWALL REMOVAL PLAN
Abutment 1 shown, Abutment 2 similar
Scale: 3/8" = 1'-0"

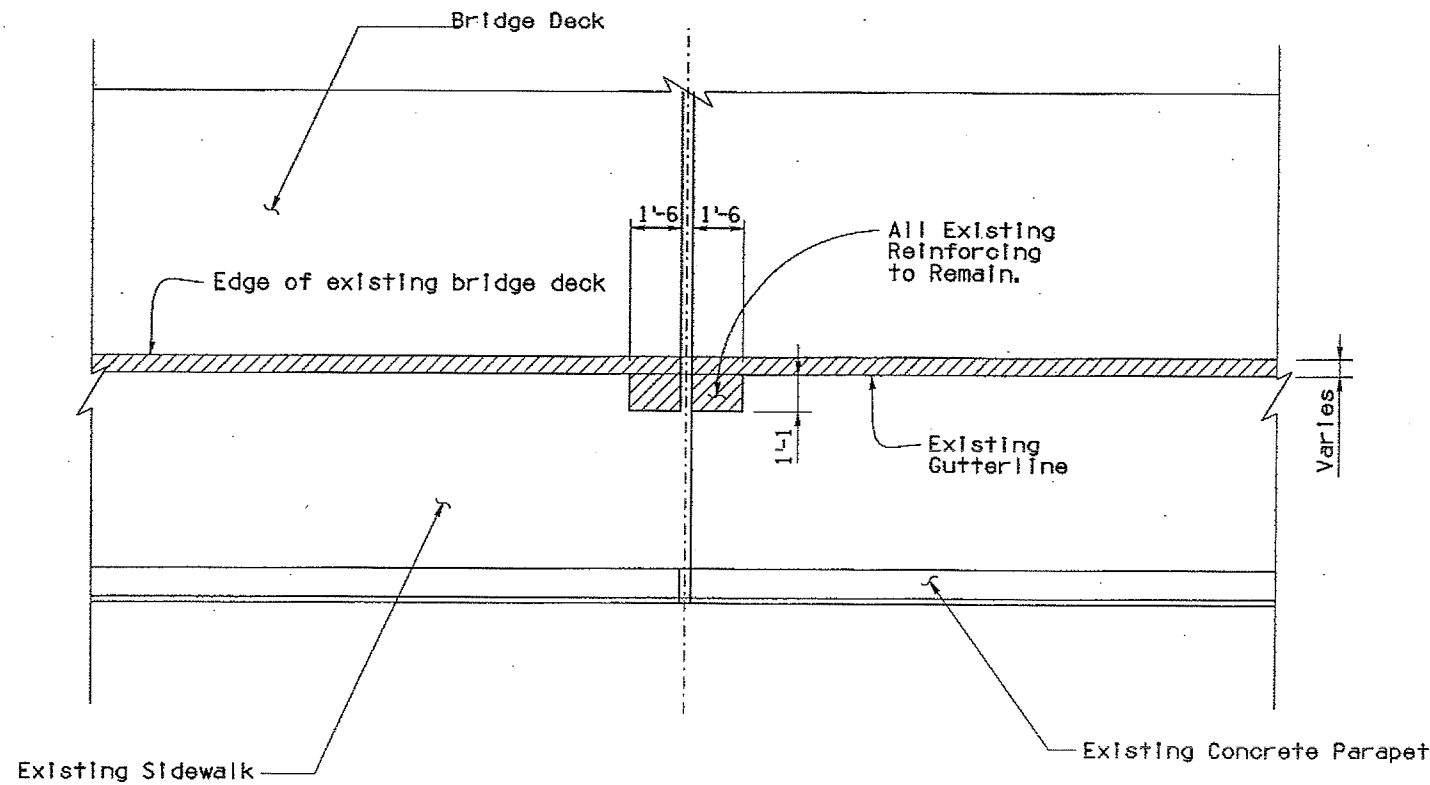


PARTIAL ELEVATION OF COLUMN REMOVAL
(Typical at Pier 1)
Scale: 3/8" = 1'-0"

NOTES:
The Contractor shall take all necessary measures to protect the reinforcing which is to remain after removal of concrete. Any damaged reinforcing shall be replaced at no additional cost to the department.

BRIDGE DESIGN SECTION 8'		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP		
DESIGN	N. Viboolmate	03-11	STA. 50+ MESCAL ROAD TI UP REMOVAL DETAILS 1		
DESIGN CK'D	R. Davis	03-11			
DRAWN	R. Yingling	03-11			
DWG CK'D	R. Davis	03-11	MESCAL ROAD TI UP #0517		
APPROVED-PROJ. ENGINEER	N. Viboolmate	04-11			
APPROVED-DESIGN LEADER	N. Viboolmate	04-11	LOCATION MESCAL ROAD TI UP #0517		DWG. S-01.7 OF 29
1-10	297.17	0517	TRACS NO. H 8336 01C		010-E(211)A 28 OF 55

F.J.M.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	26	50	3/7/12
010 CH 297					



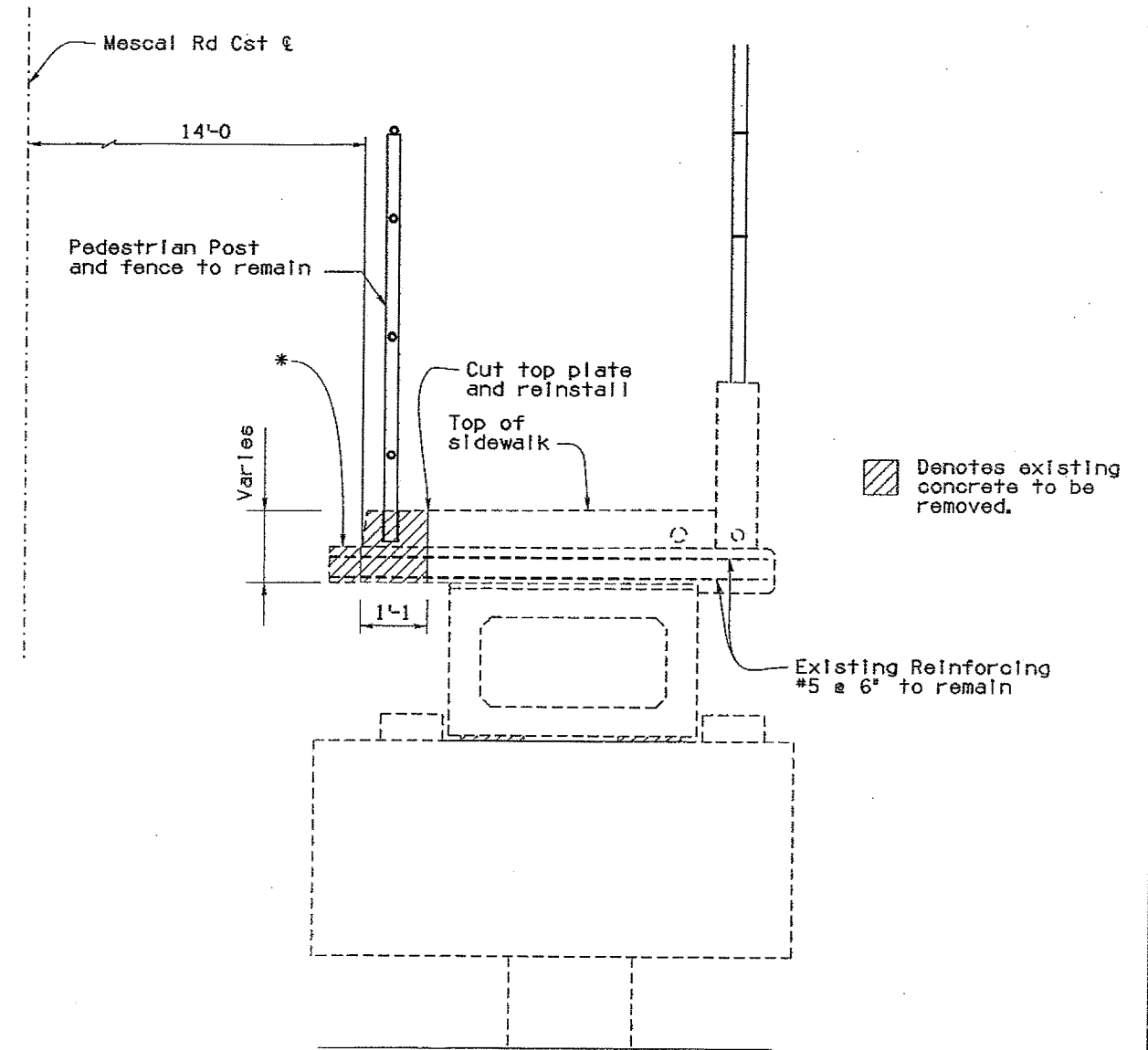
PARTIAL PLAN REMOVAL AT SIDEWALK (1)
 (Typical at Expansion Joint Abut 1, 2 and Pier 2)
 Scale: $\frac{3}{8}" = 1'-0"$

* Contractor shall survey top of Existing deck at 2 ft. increments longitudinally along bridge and submit to the engineer for evaluation prior to fabrication of pier caps and abutment.

NOTES:

Sidewalk concrete removal is for installation of new expansion joint care shall be taken not to damage pedestrian fence.

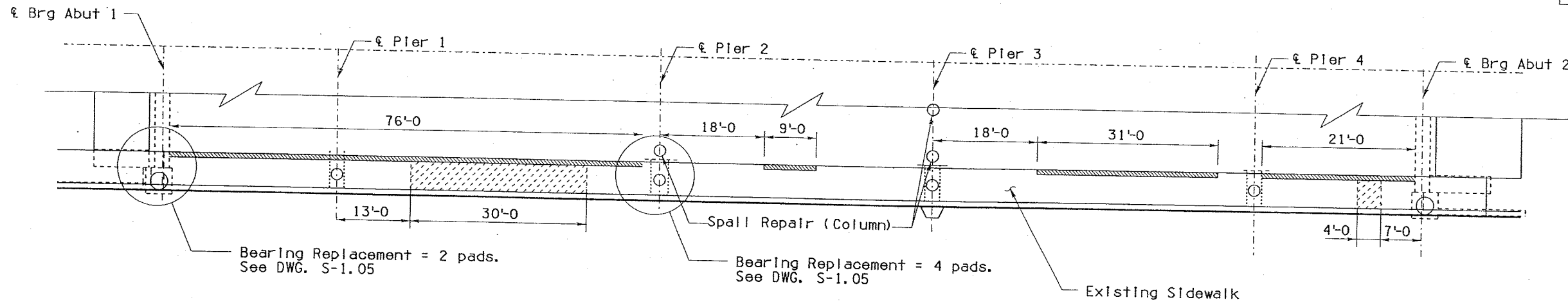
Expansion joints are at abuts 1, 2, and pier 2. Cost of sidewalk top plate and reinstall are incidental to cost of structural concrete removal.



PARTIAL ELEVATION REMOVAL AT SIDEWALK (2)
 (Typical at Expansion Joint Abut 1, 2 and Pier 2)
 Scale: $\frac{3}{4}" = 1'-0"$

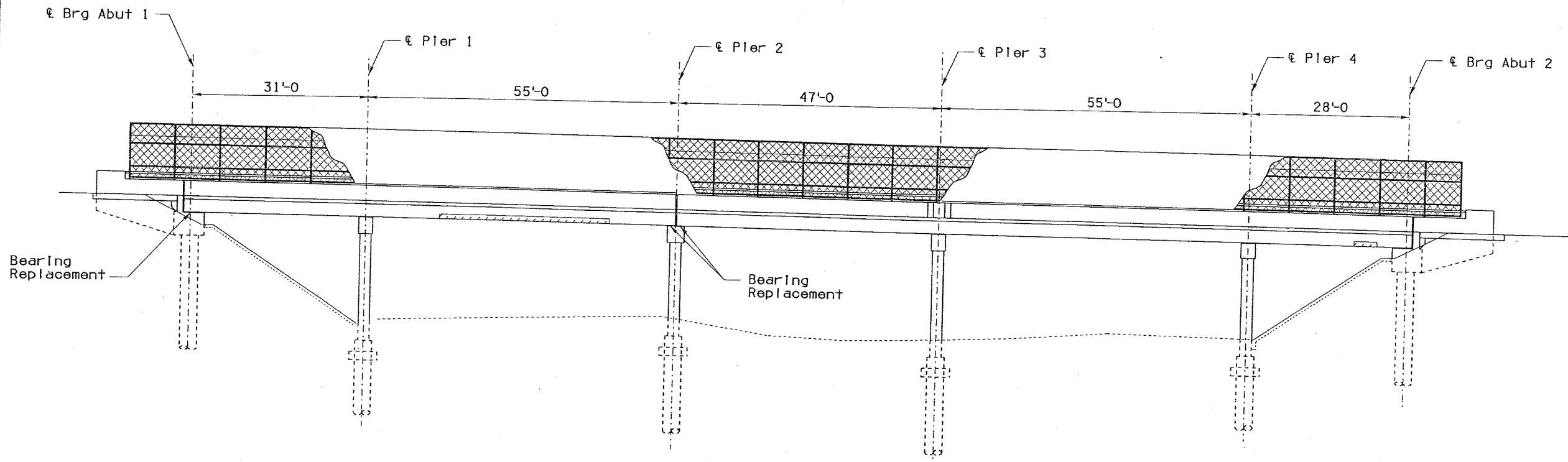
BRIDGE DESIGN SECTION #			DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP	
DESIGN	N. Viboolmate	03-11		STA. 50+ MESCAL ROAD TI UP REMOVAL DETAILS 2 LOCATION MESCAL ROAD TI UP #0517	
DESIGN CKD	R. Davis	03-11			
DRAWN	R. Yingling	03-11			
DWG CKD	R. Davis	03-11			
APPROVED-PROJ. ENGINEER	N. Viboolmate	04-11			
APPROVED-DESIGN LEADER	N. Viboolmate	04-11			
I-10 ROUTE	297.17	0517	STRUCTURE NO.	MESCAL ROAD TI UP #0517	
TRACS NO. H 8336 01C			010-E(211)A		DWG. S-01.8 OF 29
					29 OF 55

F.J.M.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	27	50	3/7/12
010 CH 297					



REPAIR PARTIAL PLAN

Scale: 1"=10'



REPAIR ELEVATION

Scale: 1"=10'

NOTES:

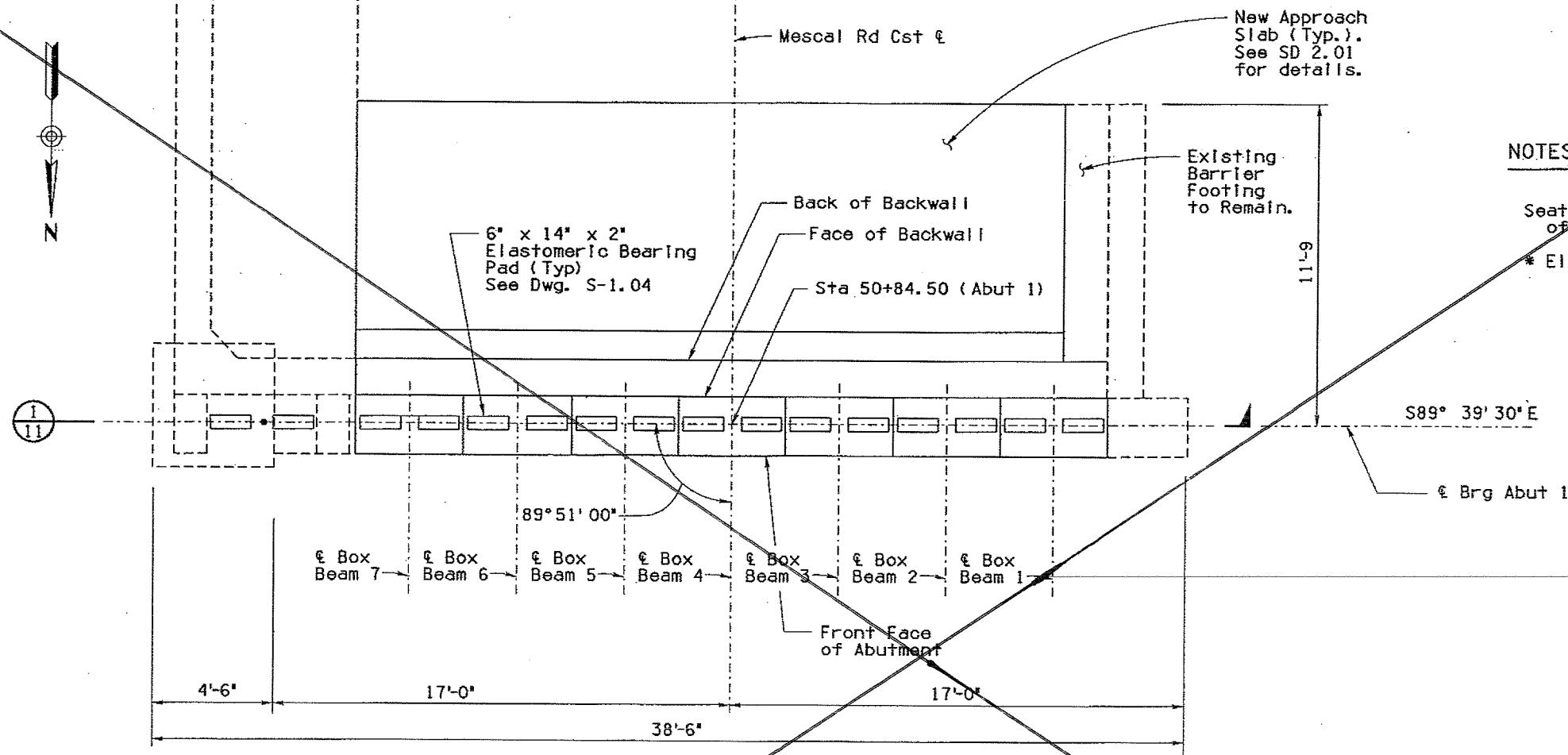
- SPALL REPAIR AT DECK EDGE
- SPALL REPAIR AT BOTTOM OF BOX BEAM

NOTE:

Spall at the edge of sidewalk shall be repaired after concrete removal.

BRIDGE DESIGN SECTION BY		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STA. 50+ MESCAL ROAD TI UP BRIDGE REPAIR PLAN	
DESIGN	N. Viboolmate	03-11		
DESIGN CRD	R. Davis	03-11		
DRAWN	R. Yingling	03-11		
DWG CRD	R. Davis	03-11		
APPROVED-PROJ. ENGINEER	N. Viboolmate	04-11	LOCATION MESCAL ROAD TI UP #0517	
APPROVED-DESIGN LEADER	N. Viboolmate	04-11		
ROUTE	297.17	0517		
TRACS NO. H 8336 OIC		010-E(211)A		DWG. S-01.9 OF 29 30 OF 55

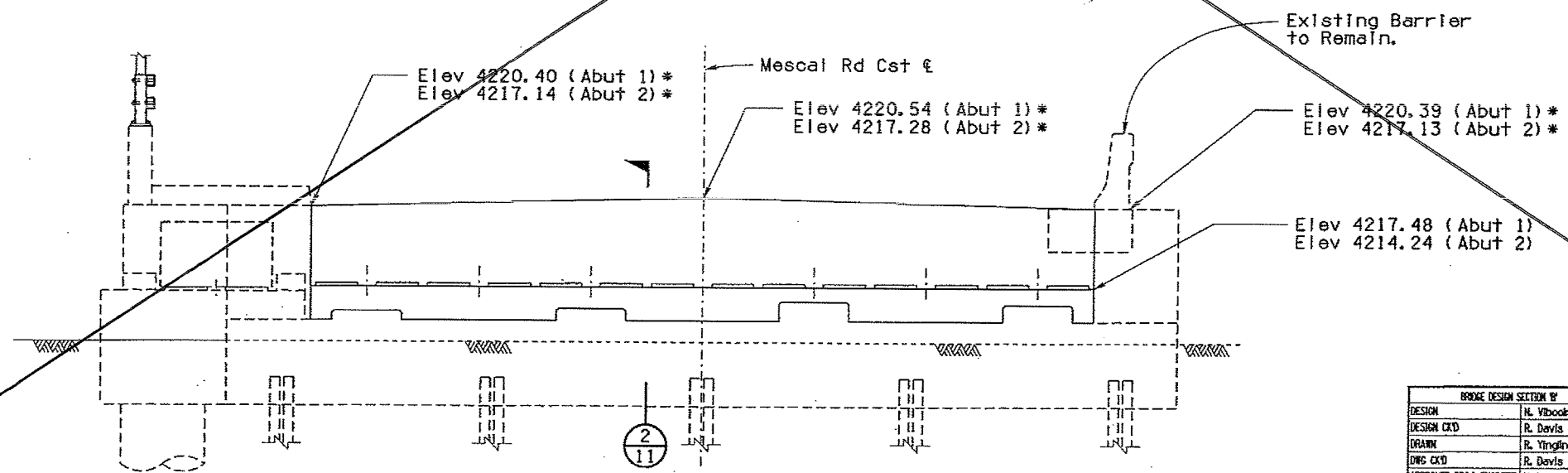
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	28	50	3/7/12
010 CH 297					



NOTES:

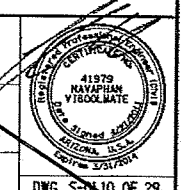
Seat elevations at centerline of bearing and shall be level.
 * Elevations are at face of backwall.

PLAN
 (Abutment 1 Shown, Abutment 2 Similar)
 Scale: 3/8" = 1'-0"



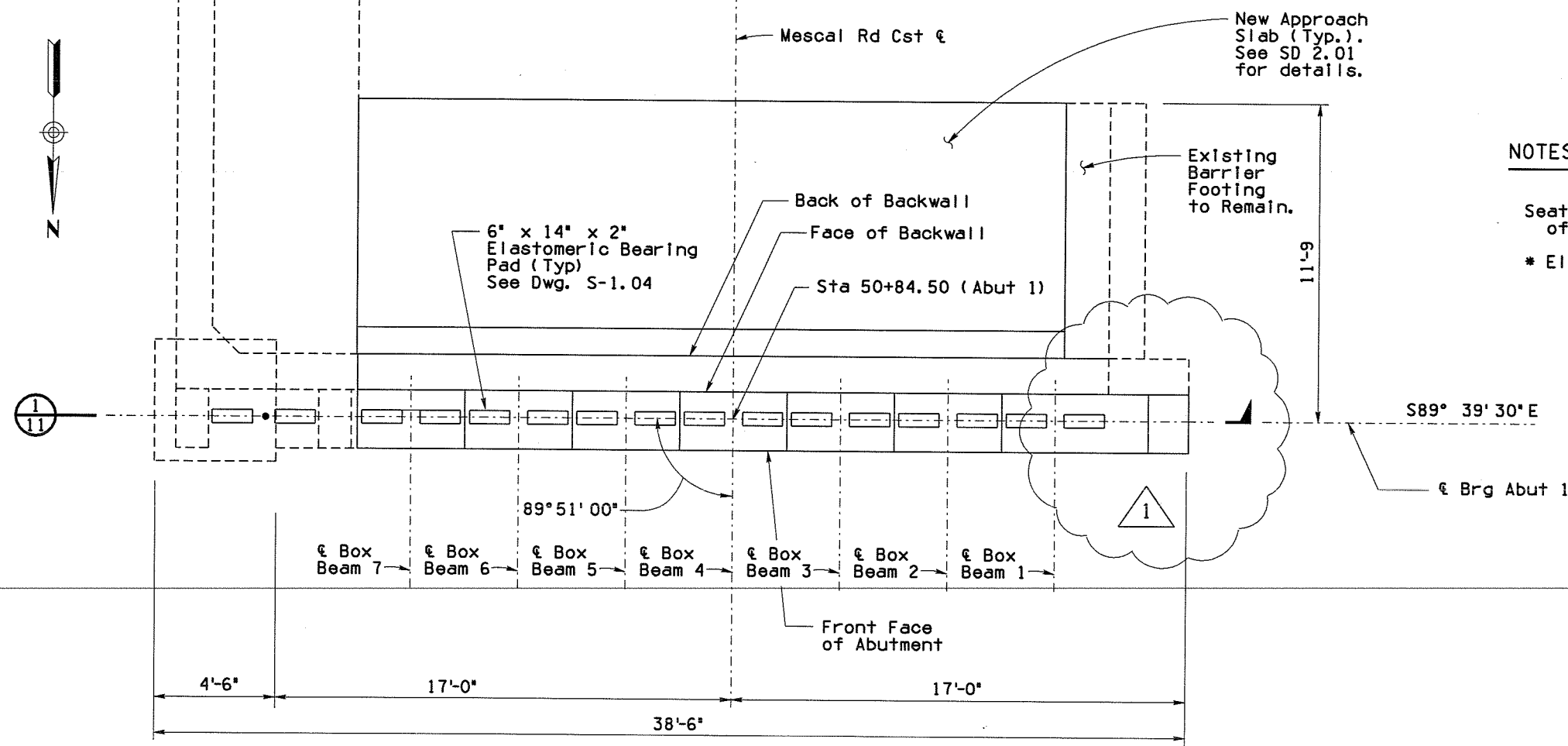
ELEVATION
 Scale: 3/8" = 1'-0"

BRIDGE DESIGN SECTION BY		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP
DESIGN	N. Vibookmate	03-11	
DESIGN CRD	R. Davis	03-11	
DRAWN	R. Yingling	03-11	
DWG CRD	R. Davis	03-11	
APPROVED-PROJ. ENGINEER	N. Vibookmate	04-11	
APPROVED-DESIGN LEADER	N. Vibookmate	04-11	
ROUTE	297.17	0517	LOCATION Mescal Road TI UP #0517
TRACS NO. H 8336 01C			010-E(211)A



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	28	50	3/7/12

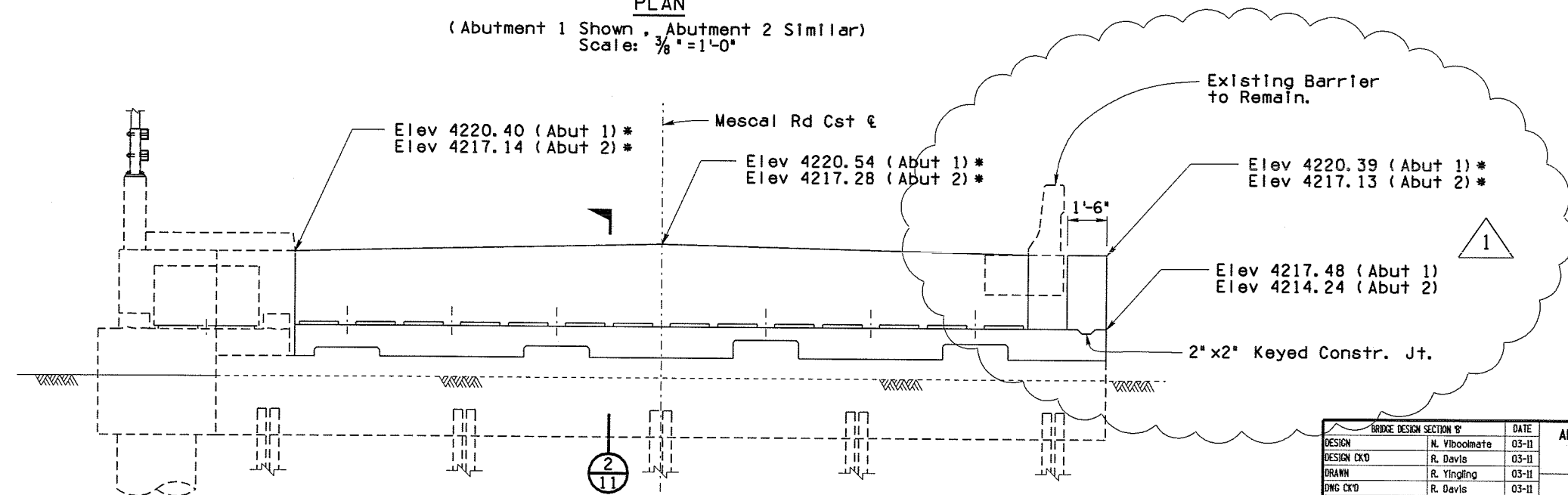
010 CH 297



NOTES:

- Seat elevations at centerline of bearing and shall be level.
- * Elevations are at face of backwall.

PLAN
(Abutment 1 Shown, Abutment 2 Similar)
Scale: $\frac{3}{8}" = 1'-0"$



ELEVATION
Scale: $\frac{3}{8}" = 1'-0"$

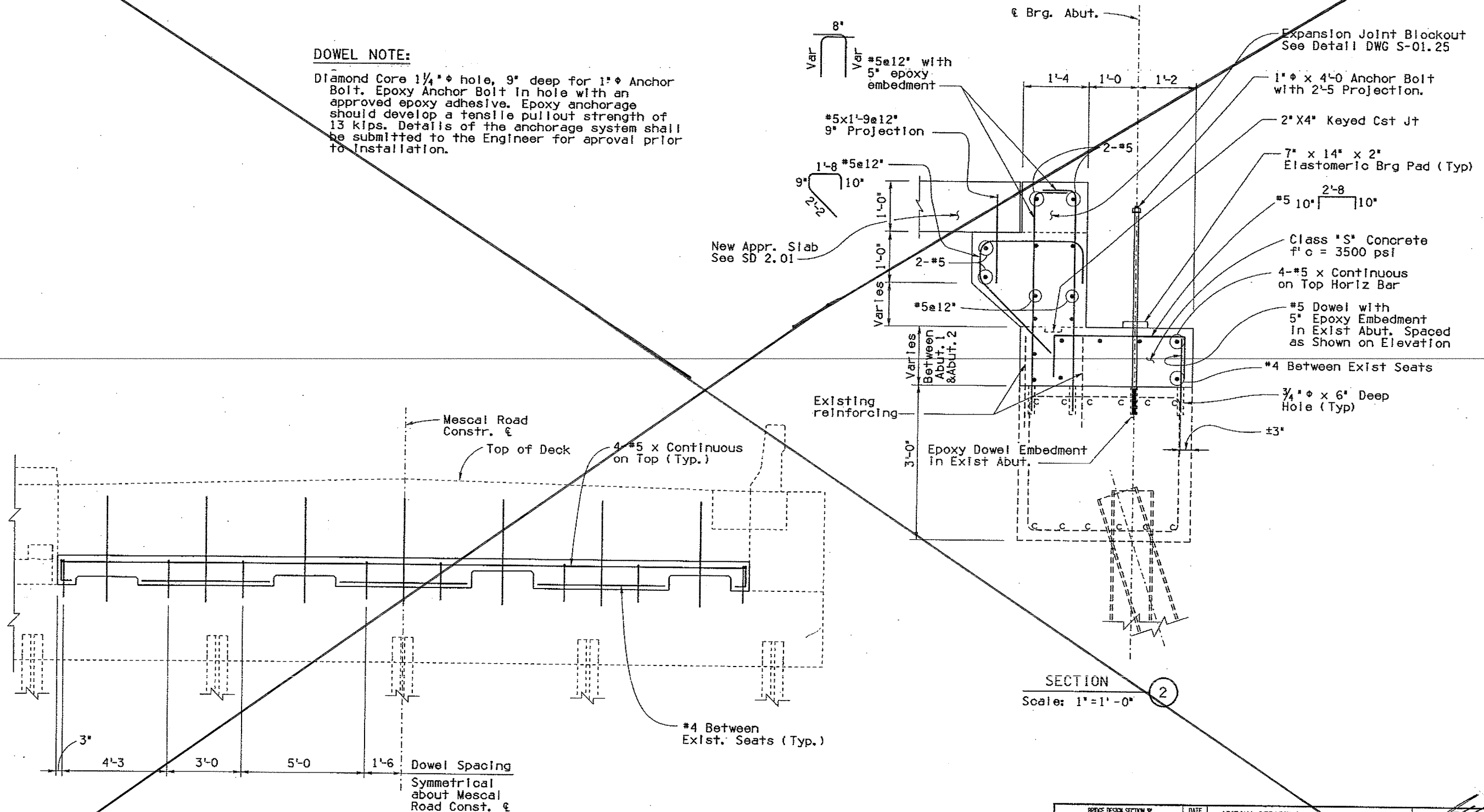
BRIDGE DESIGN SECTION 8'		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP		
DESIGN	N. Viboolmate	03-11			
DESIGN CHKD	R. Davis	03-11			
DRAWN	R. Yingling	03-11			
DWG CHKD	R. Davis	03-11			
APPROVED-PROJ. ENGINEER	N. Viboolmate	04-11	STA. 50+ MESCAL ROAD TI UP ABUTMENT PLAN AND ELEVATION		
APPROVED-DESIGN LEADER	N. Viboolmate	04-11			
ROUTE	1-10	297.17	0517	LOCATION	MESCAL ROAD TI UP *0517
TRACS NO. H 8336 OIC		010-E(211)A			
				DWG. S-01.10 OF 29 34 OF 55	

MADE BY: R. Davis DATE: 07-25-11 NO. 2 DESCRIPTION OF REVISIONS: Revised Concrete

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	29	50	3/7/12
010 CH 297					

DOWEL NOTE:

Diamond Core $1\frac{1}{4}$ " ϕ hole, 9" deep for 1" ϕ Anchor Bolt. Epoxy Anchor Bolt in hole with an approved epoxy adhesive. Epoxy anchorage should develop a tensile pullout strength of 13 kips. Details of the anchorage system shall be submitted to the Engineer for approval prior to installation.

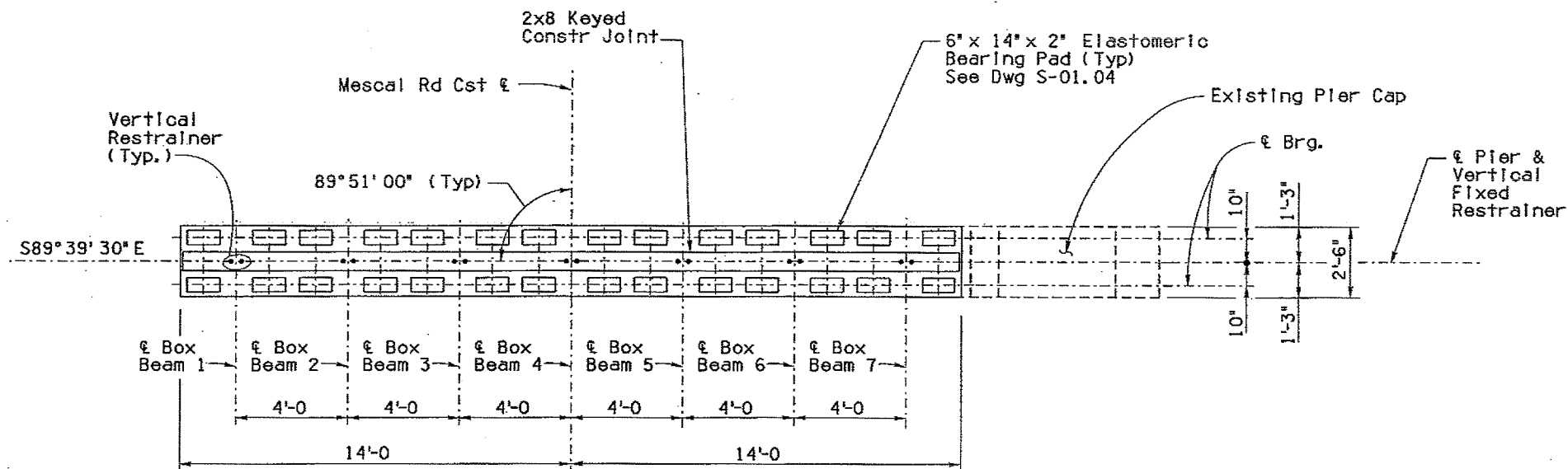


SECTION 1
Scale: $\frac{1}{2}$ " = 1'-0"

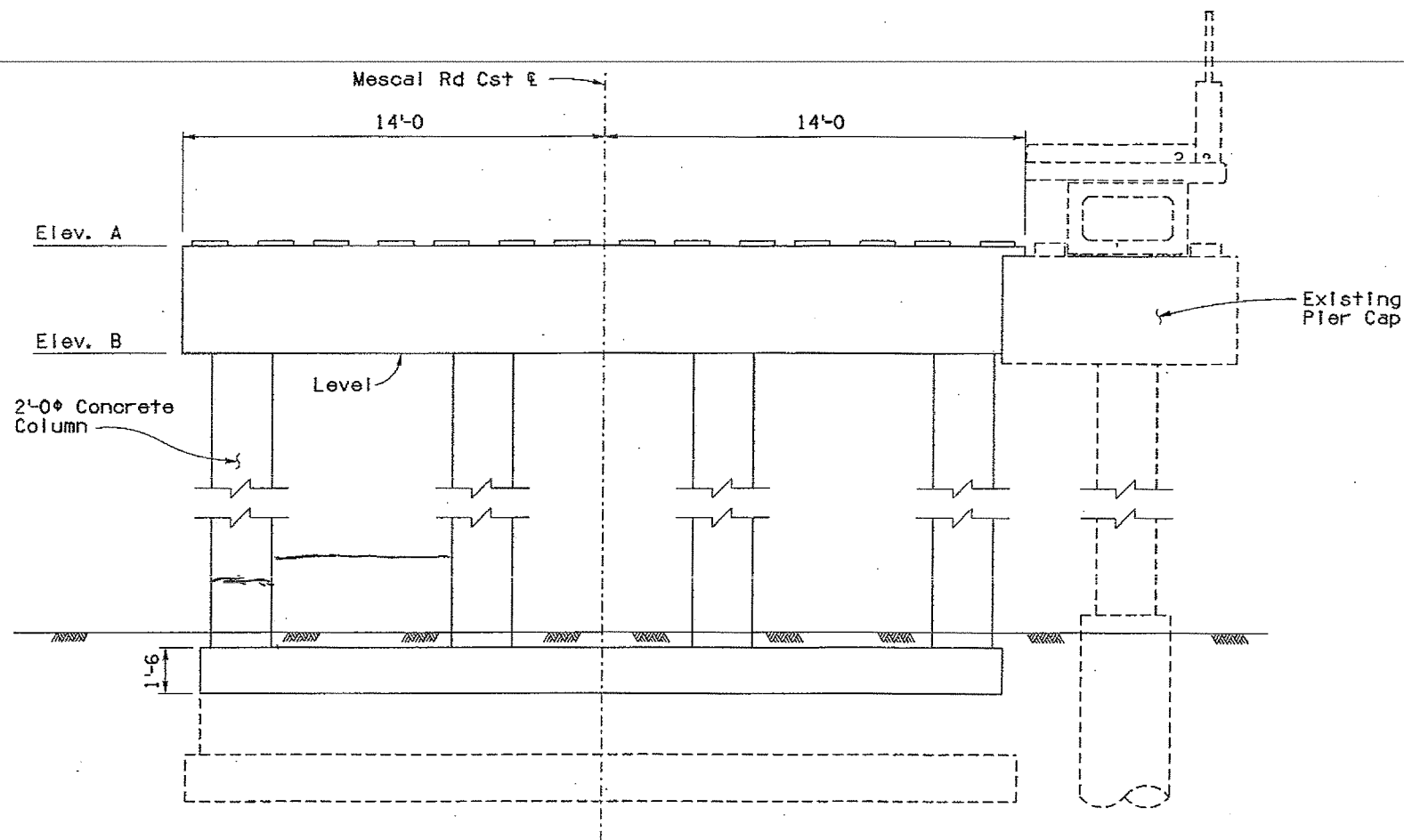
SECTION 2
Scale: 1" = 1'-0"

BRIDGE DESIGN SECTION 2		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STA. 50+ MESCAL ROAD TI UP ABUTMENT DETAILS Mescal Road TI UP #0517
DESIGN	N. Vitboonmate	03-11	
DESIGN CRTD	R. Davis	03-11	
DRAWN	R. Yingling	03-11	
DWG CRTD	R. Davis	03-11	
APPROVED-PROJ. ENGINEER	N. Vitboonmate	04-11	41978 NAVAPHAN VIBOONKATE LICENSED PROFESSIONAL ENGINEER STATE OF ARIZONA EXPIRES 3/31/2018
APPROVED-DESIGN LEADER	N. Vitboonmate	04-11	
ROUTE	297.17	0517	DWG. S-0411 OF 29
TRACS NO.	H 8336 OIC	010-E(211)A	33 OF 55

F.H.M.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	30	50	3/7/12
010 CH 297					

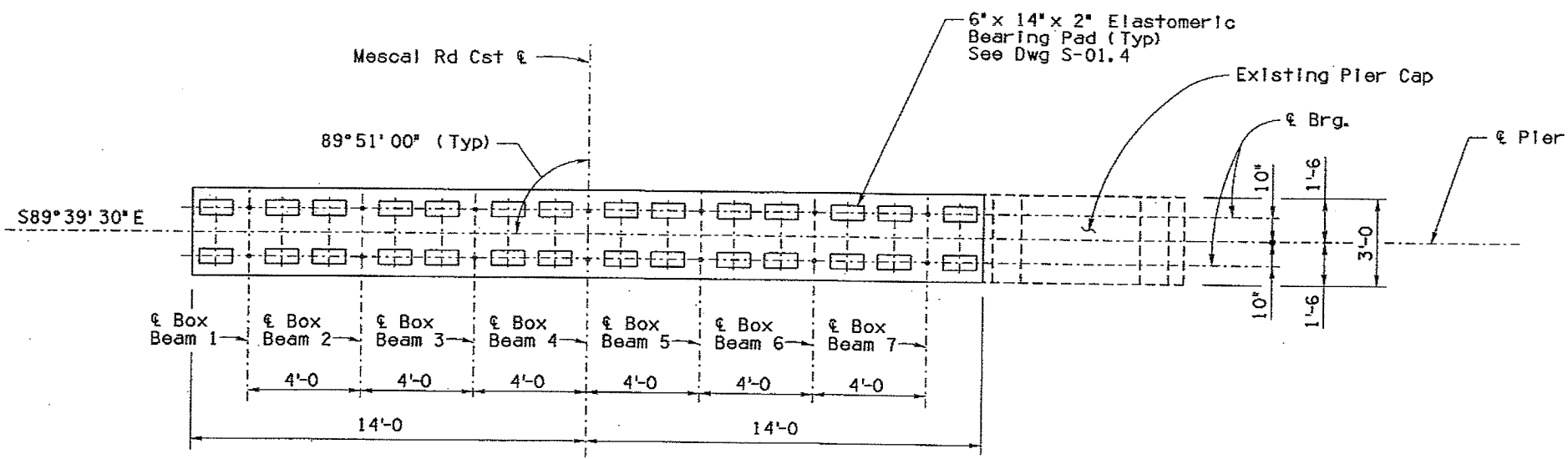


Pier	Elev. A	Elev. B
1	4217.22	4213.72



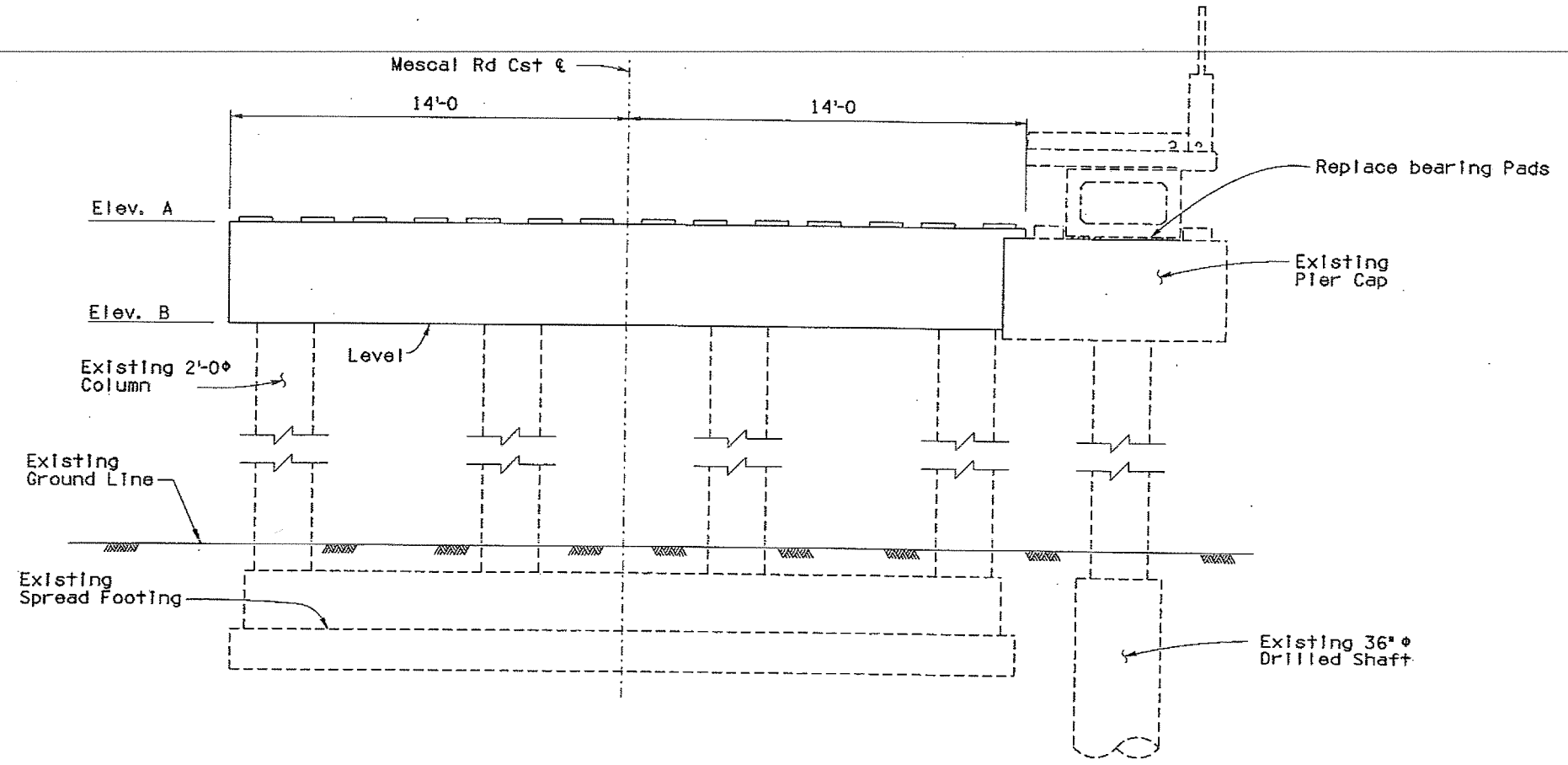
BRIDGE DESIGN SECTION #		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STA. 50+ Mescal Road TI UP PIER PLAN AND ELEVATION 1	
DESIGN	N. Viboolmate	03-11		
DESIGN CKD	R. Davis	03-11		
DRAWN	R. Yingting	03-11		
DWG CKD	R. Davis	03-11		
APPROVED-PROJ. ENGINEER	N. Viboolmate	04-11		
APPROVED-DESIGN LEADER	N. Viboolmate	04-11		
I-10	297.17	0517	LOCATION: Mescal Road TI UP #0517	
TRACS NO. H 8336 OIC		010-E(211)A		DWG. S-01.12 OF 29 35 OF 55

F.J.R.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	31	50	3/7/12
010 CH 297					



PIER PLAN - PIER 2
(Looking Forward On Station)
Scale: 3/8" = 1'-0"

Pier	Elev. A	Elev. B
2	4216.58	4213.08



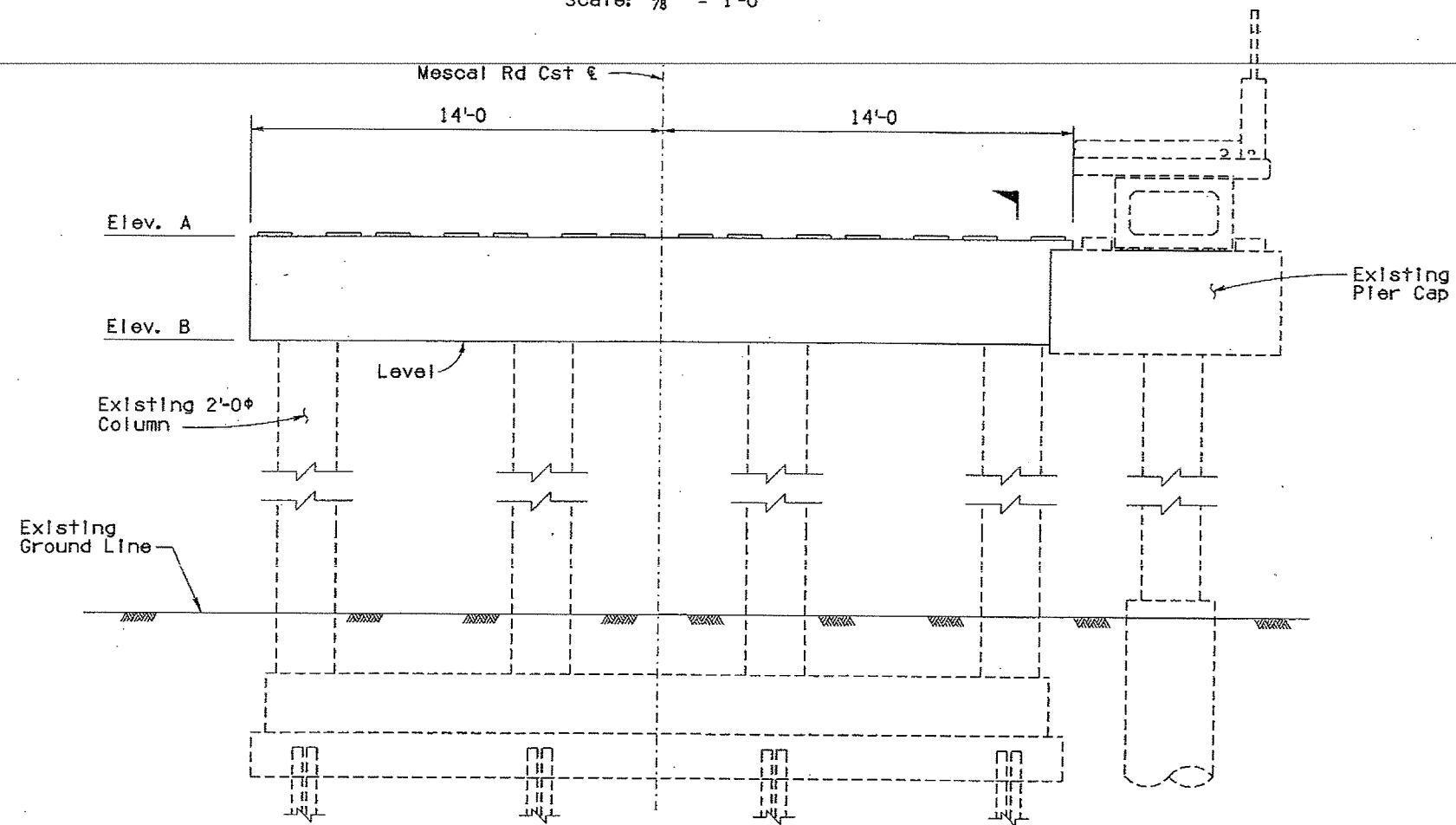
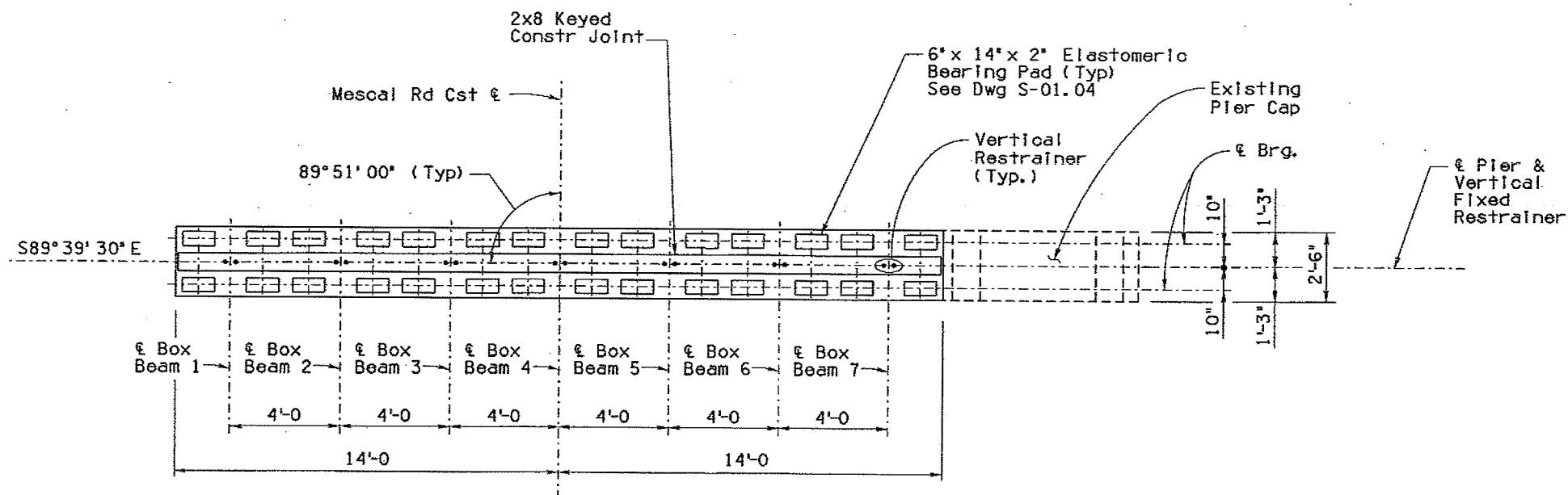
PARTIAL ELEVATION - PIER 2
Scale: 3/8" = 1'-0"

BRIDGE DESIGN SECTION BY		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP
DESIGN	H. Vibokmate	03-11	
DESIGN CVD	R. Davis	03-11	
DRAWN	R. Yingling	03-11	
ENG CVD	R. Davis	03-11	
APPROVED-PROJ. ENGINEER	H. Vibokmate	04-11	STA. 50+ MESCAL ROAD TI UP PIER PLAN AND ELEVATION 2
APPROVED-DESIGN LEADER	H. Vibokmate	04-11	
I-10 ROUTE	297.17 MILEPOST	0517 STRUCTURE NO.	LOCATION MESCAL ROAD TI UP #0517
TRACS NO. H 8336 OIC			010-E(211)A

DWG. S-01.13 OF 29
36 OF 55

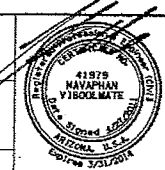
FIRM/REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	32	50	3/7/12

010 CH 297



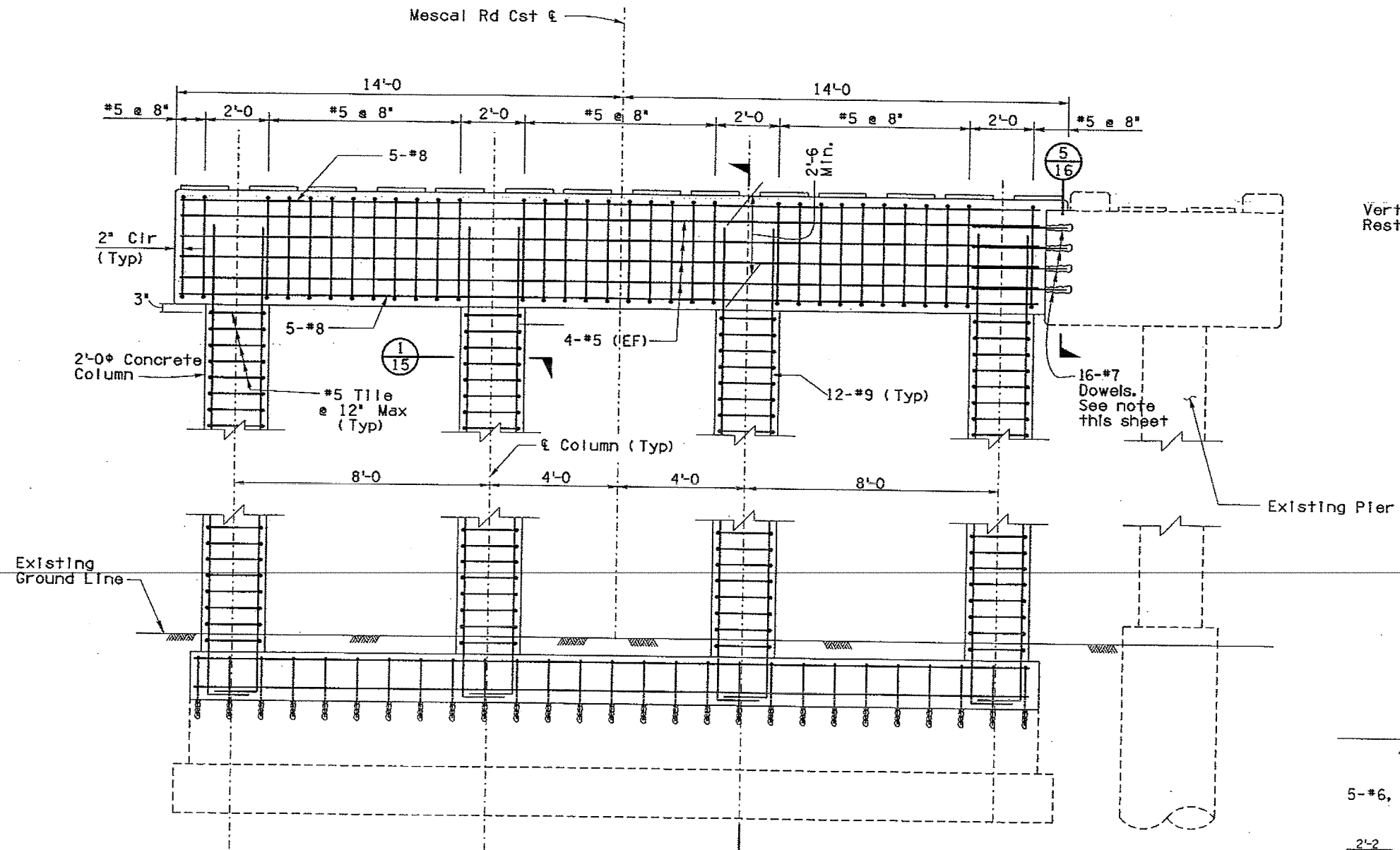
Pier	Elev. A	Elev. B
3	4215.85	4212.35
4	4214.83	4211.33

BRIDGE DESIGN SECTION 57		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP
DESIGN	N. Viboomate	03-11	
DESIGN CMT	R. Davis	03-11	
DRAWN	R. Yingling	03-11	
CHKD	R. Davis	03-11	
APPROVED-PROJ. ENGINEER	N. Viboomate	04-11	STA. 50+ MESCAL ROAD TI UP PIER PLAN AND ELEVATION 3
APPROVED-DESIGN LEADER	N. Viboomate	04-11	
I-10 ROUTE	297.17 MILEPOST	0517 STRUCTURE NO.	LOCATION MESCAL ROAD TI UP #0517
TRACS NO. H 8336 OIC			010-E(211)A

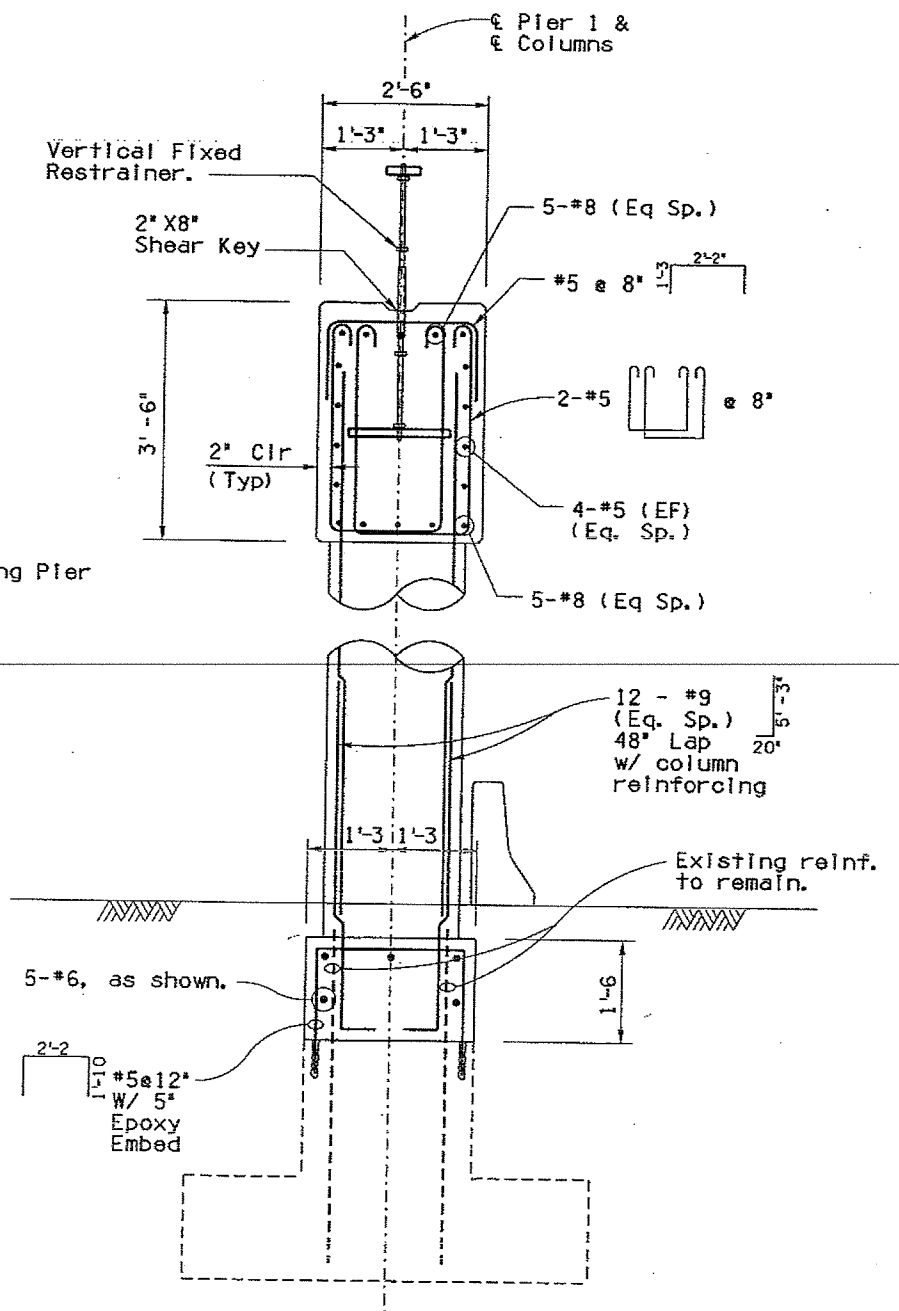


DWG. S-0114 OF 29
37 OF 55

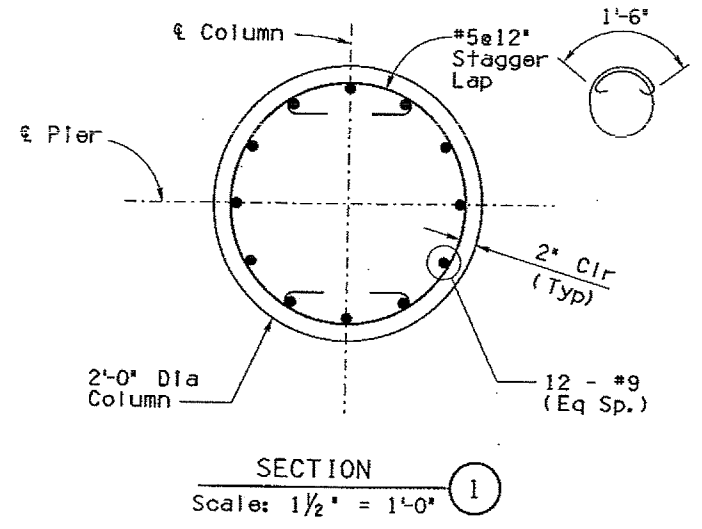
F.A.M.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	33	50	3/7/12
010 CH 297					



PIER 1 REINFORCING DETAIL
Scale: 1/2" = 1'-0"



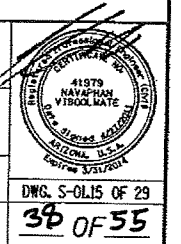
SECTION 2
Scale: 3/4" = 1'-0"



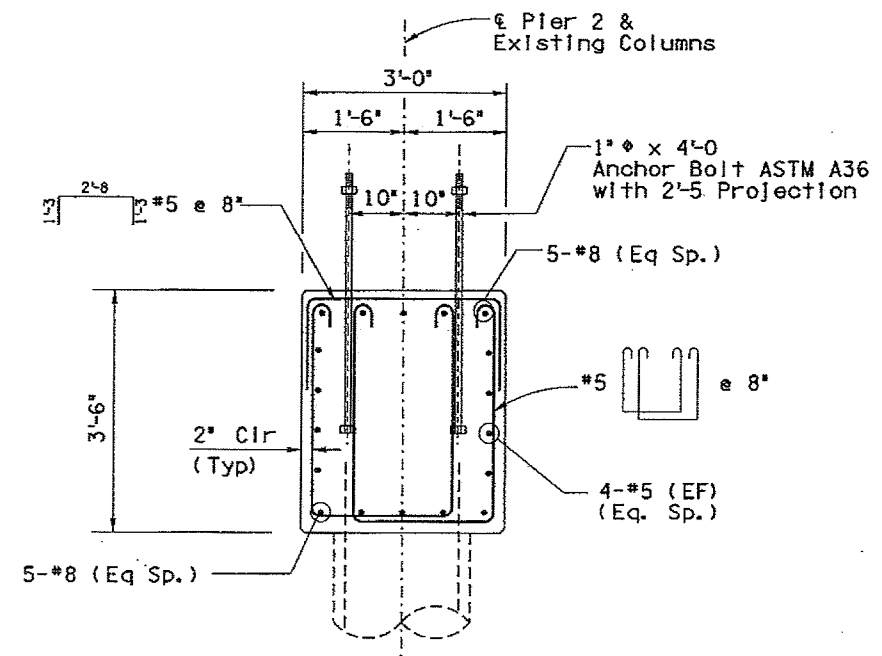
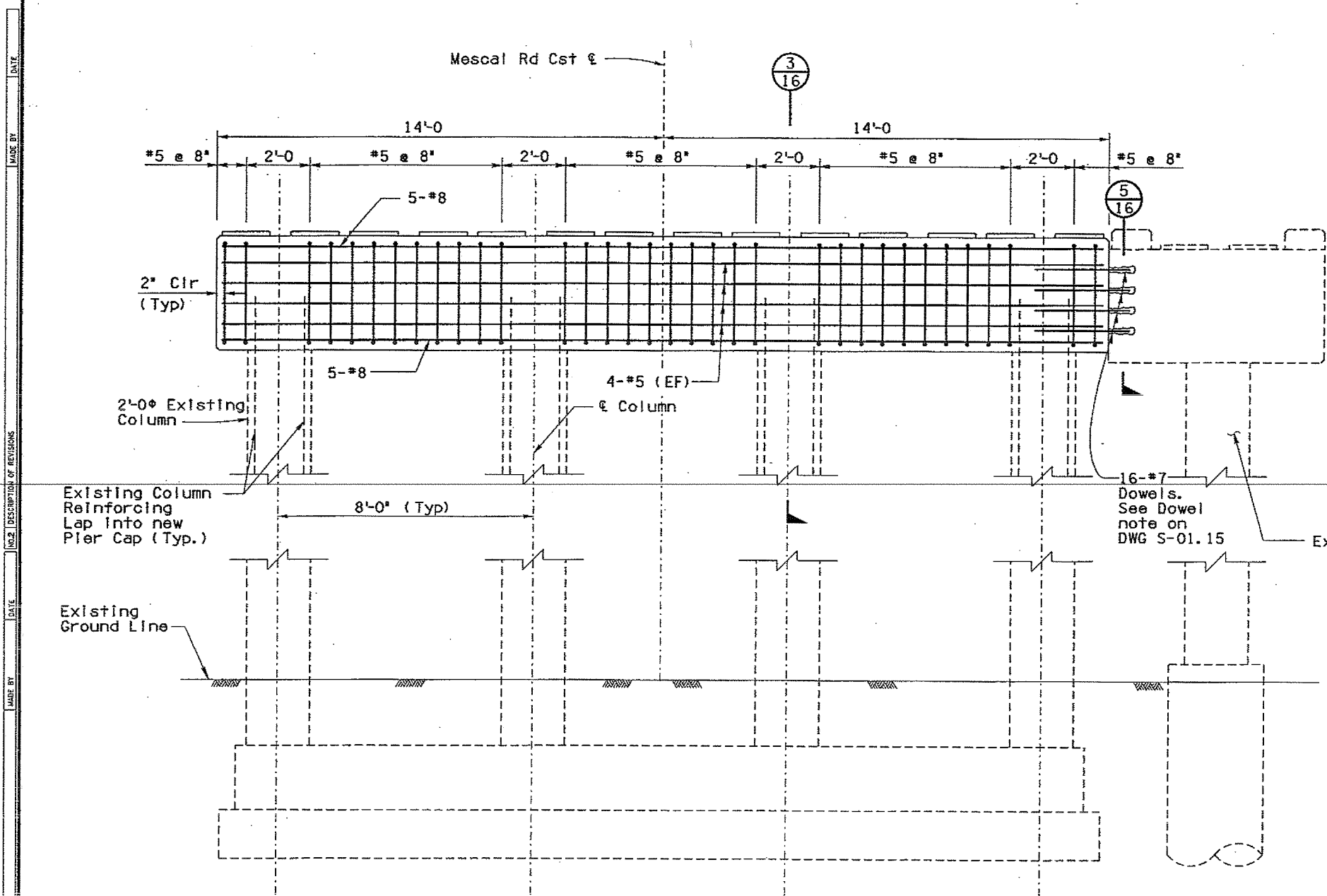
SECTION 1
Scale: 1/2" = 1'-0"

NOTE:
Drill 1 1/8 inch diameter hole 7 inches deep for #7 dowel. Epoxy dowel in hole with an approved epoxy adhesive. Epoxy anchorage shall develop a tensile pullout strength of 13 kips for #7 dowels. Details of the anchorage system shall be submitted to the Engineer for approval prior to installation.

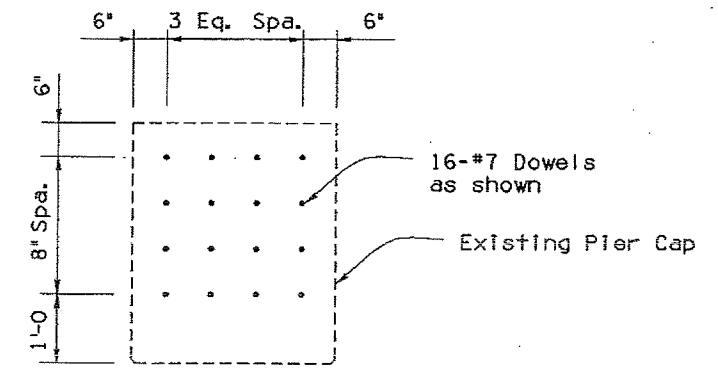
BRIDGE DESIGN SECTION #			DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP
DESIGN	N. Viboolmate	03-11		
DESIGN CKD	R. Davis	03-11		
DRAWN	R. Yingling	03-11		
ENG CKD	R. Davis	03-11		
APPROVED-PROJ. ENGINEER	N. Viboolmate	04-11		
APPROVED-DESIGN LEADER	N. Viboolmate	04-11		
I-10	297.17	0517	LOCATION	MESCAL ROAD TI UP #0517
ROUTE	MILEPOST	STRUCTURE NO.		
TRACS NO. H 8336 01C				010-E(211)A



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	34	50	3/7/12
010 CH 297					



SECTION 3
Scale: 3/4" = 1'-0"



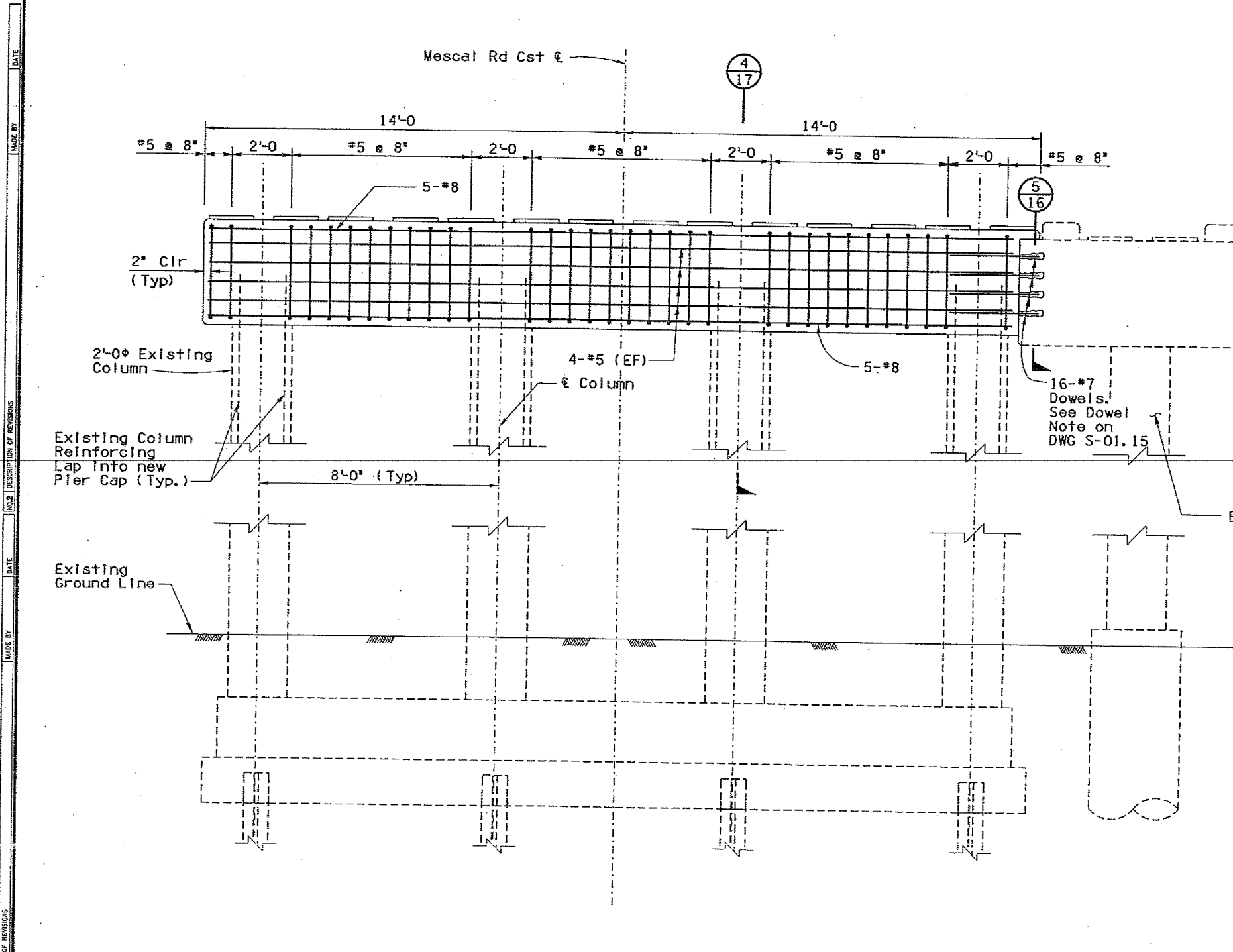
SECTION 5
Scale: 3/4" = 1'-0"

PIER 2 DETAIL
Scale: 1/2" = 1'-0"

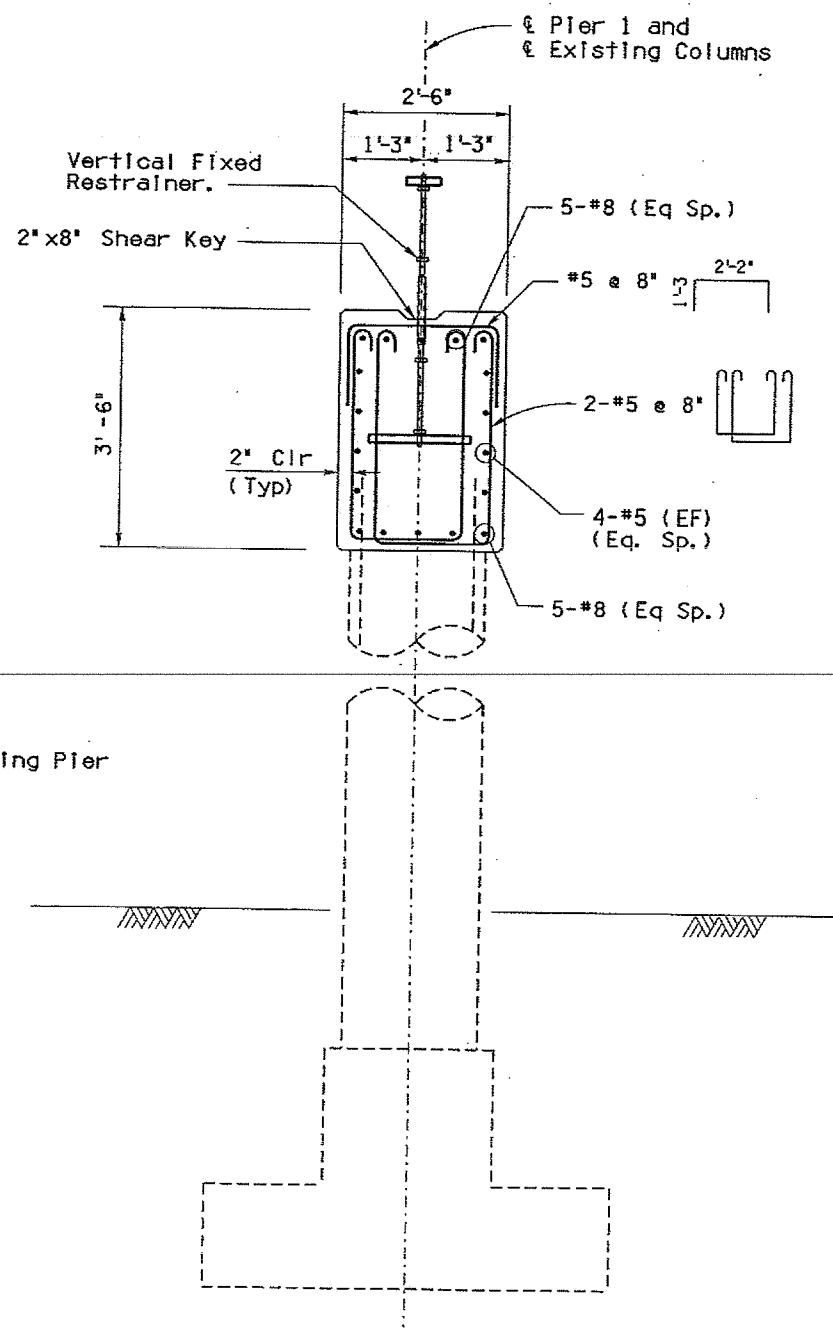
BRIDGE DESIGN SECTION 2		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STA. 50+ MESCAL ROAD TI UP PIER DETAILS 2 LOCATION MESCAL ROAD TI UP #0517	
DESIGN	N. Viboolmate	03-11		
DESIGN CKD	R. Davis	03-11		
DRAWN	R. Yingling	03-11		
DWG CKD	R. Davis	03-11		
APPROVED-PRAL ENGINEER	N. Viboolmate	04-11		
APPROVED-DESIGN LEADER	N. Viboolmate	04-11		
I-10 ROUTE	297.17 MILEPOST	0517 STRUCTURE NO.		
TRACS NO. H 8336 OIC		010-E(211)A	DWG. S-0116 OF 29	
			39 OF 55	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	35	50	3/7/12

010 CH 297



PIER 3 and 4 DETAIL
Scale: 1/2" = 1'-0"

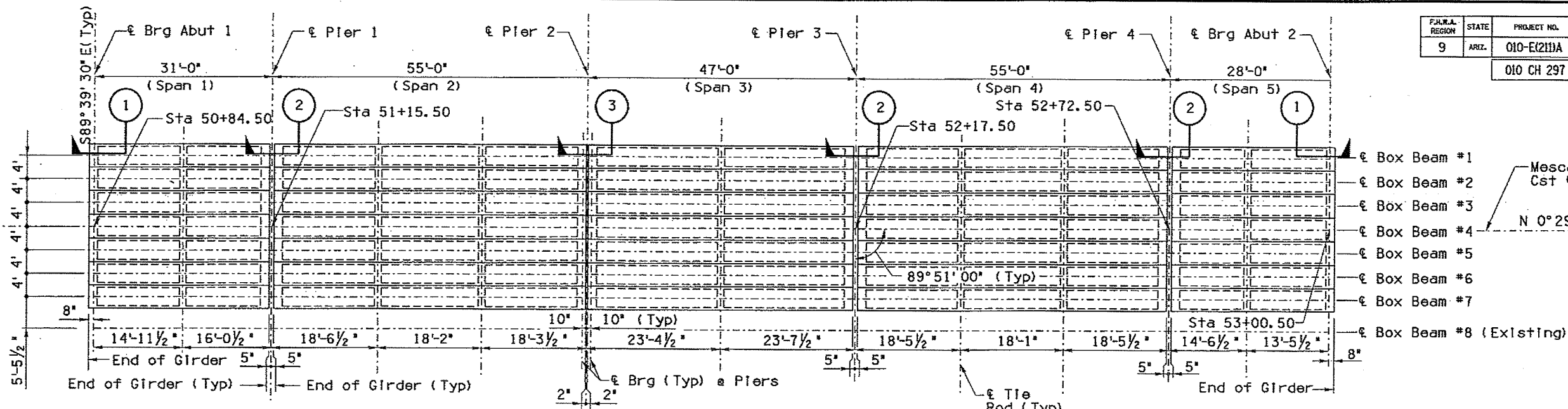


SECTION 4
Scale: 3/4" = 1'-0"

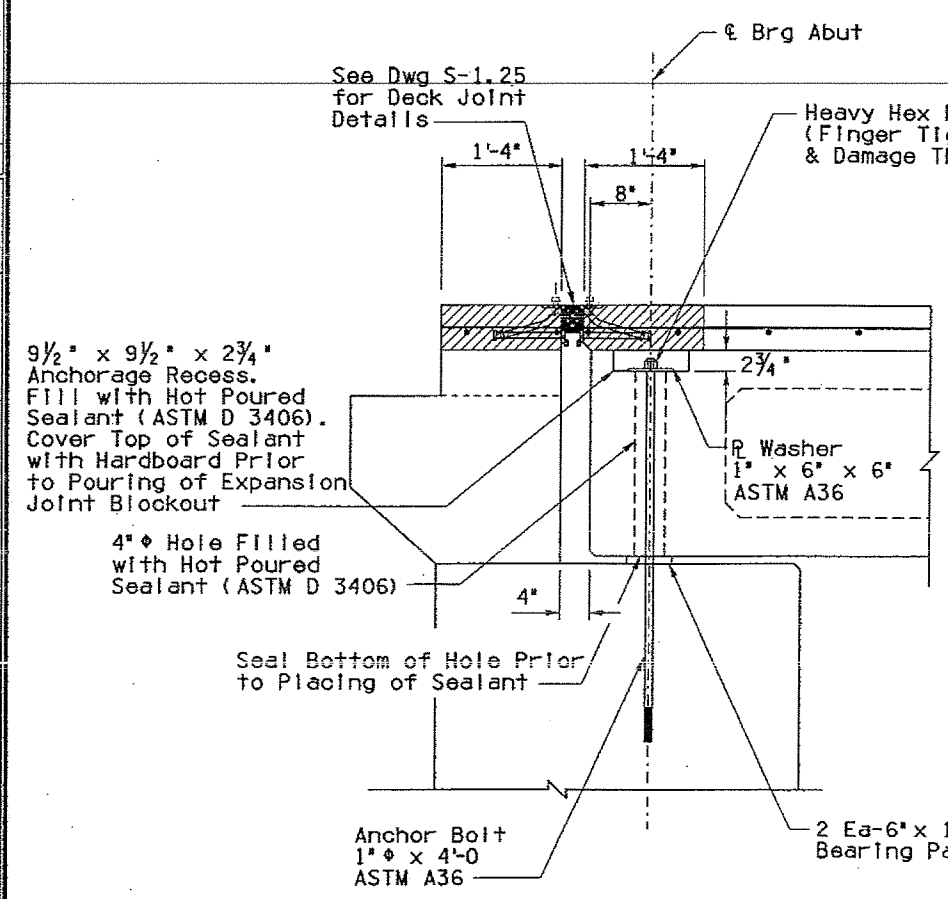
NO. 1 DESCRIPTION OF REVISIONS
DATE
MADE BY

BRIDGE DESIGN SECTION 4			ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP	
DESIGN	N. Vibookmate	03-11	STA. 50+ MESCAL ROAD TI UP PIER DETAILS 3 41978 NAYAPHAN VIBOOKMATE REGISTERED PROFESSIONAL ENGINEER STATE OF ARIZONA LICENSE NO. 12345	
DESIGN CHKD	R. Davis	03-11		
DRAWN	R. Yingling	03-11		
DWG CHKD	R. Davis	03-11		
APPROVED-PROJ. ENGINEER	N. Vibookmate	04-11		
APPROVED-DESIGN LEADER	N. Vibookmate	04-11	LOCATION MESCAL ROAD TI UP #0517 TRACS NO. H 8336 01C 010-E(211)A DWG. S-01.17 OF 29 40 OF 55	

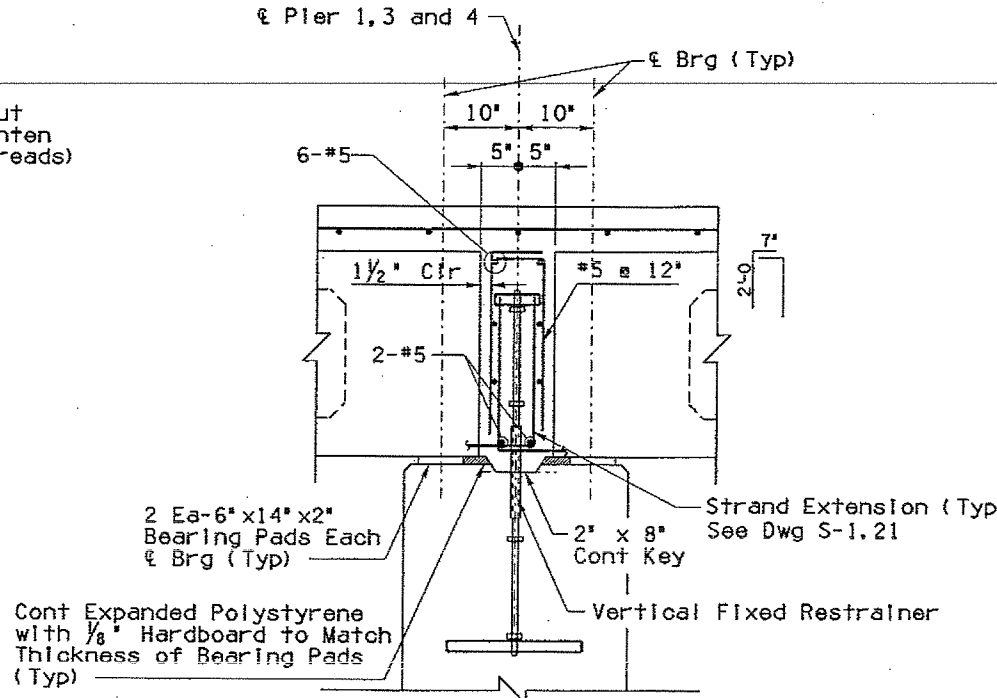
FEDERAL REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	36	50	3/7/12
010 CH 297					



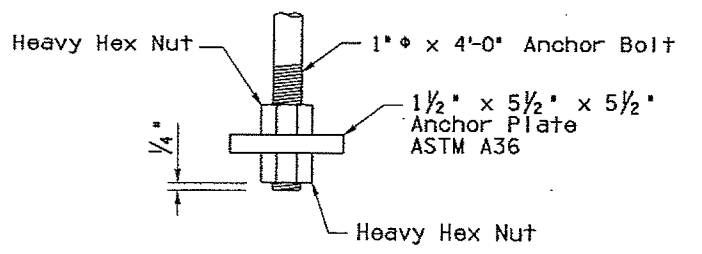
FRAMING PLAN
Scale: 1"=10'



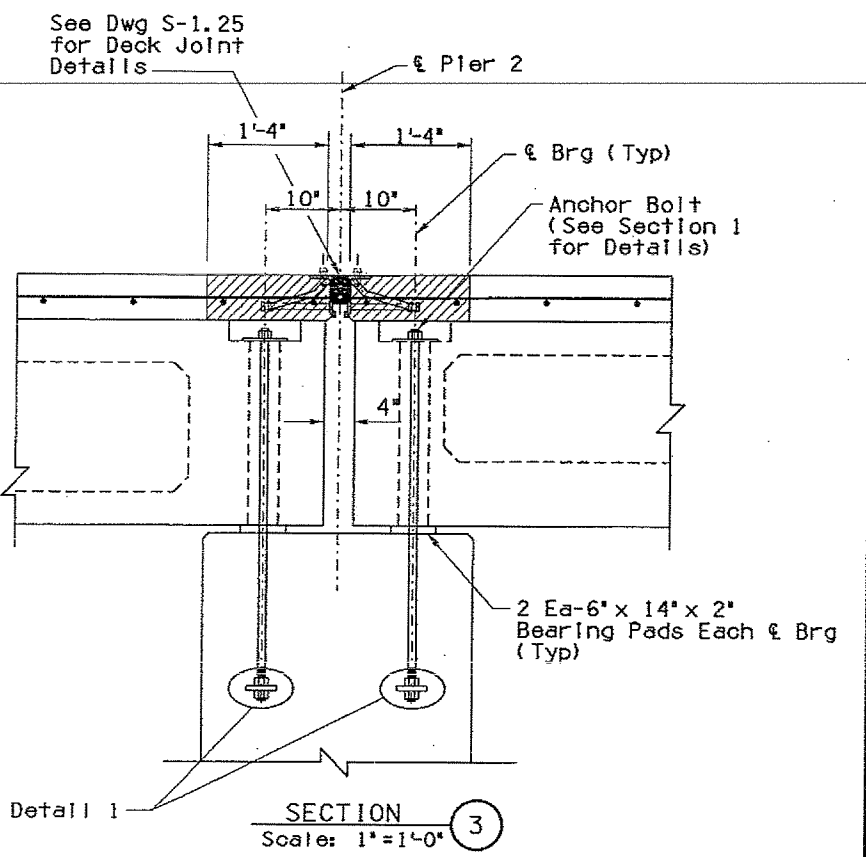
SECTION 1
Scale: 1"=1'-0"



SECTION 2
Scale: 1"=1'-0"



DETAIL 1
N. T. S.

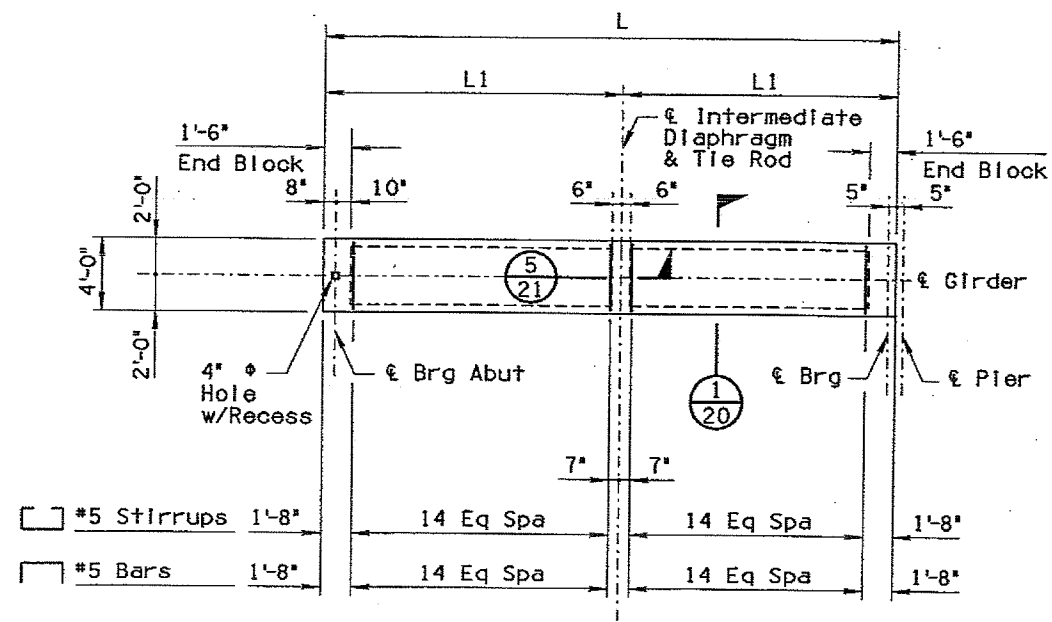


SECTION 3
Scale: 1"=1'-0"

BRIDGE DESIGN SECTION 17		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP	
DESIGN	N. Vibookmate	03-11		
DESIGN CRD	R. Davis	03-11		
DRAWN	S. Mckel	03-11		
ENG CRD	R. Davis	03-11		
APPROVED-PROJ. ENGINEER	N. Vibookmate	04-11	STA. 50+ MESCAL ROAD TI UP FRAMING PLAN AND DETAILS	
APPROVED-DESIGN LEADER	N. Vibookmate	04-11		
ROUTE	297.17	0517	LOCATION	MESCAL ROAD TI UP #0517
TRACS NO.	H 8336 01C			010-E(211)A
				DWG. S-0118 OF 29
				41 OF 55

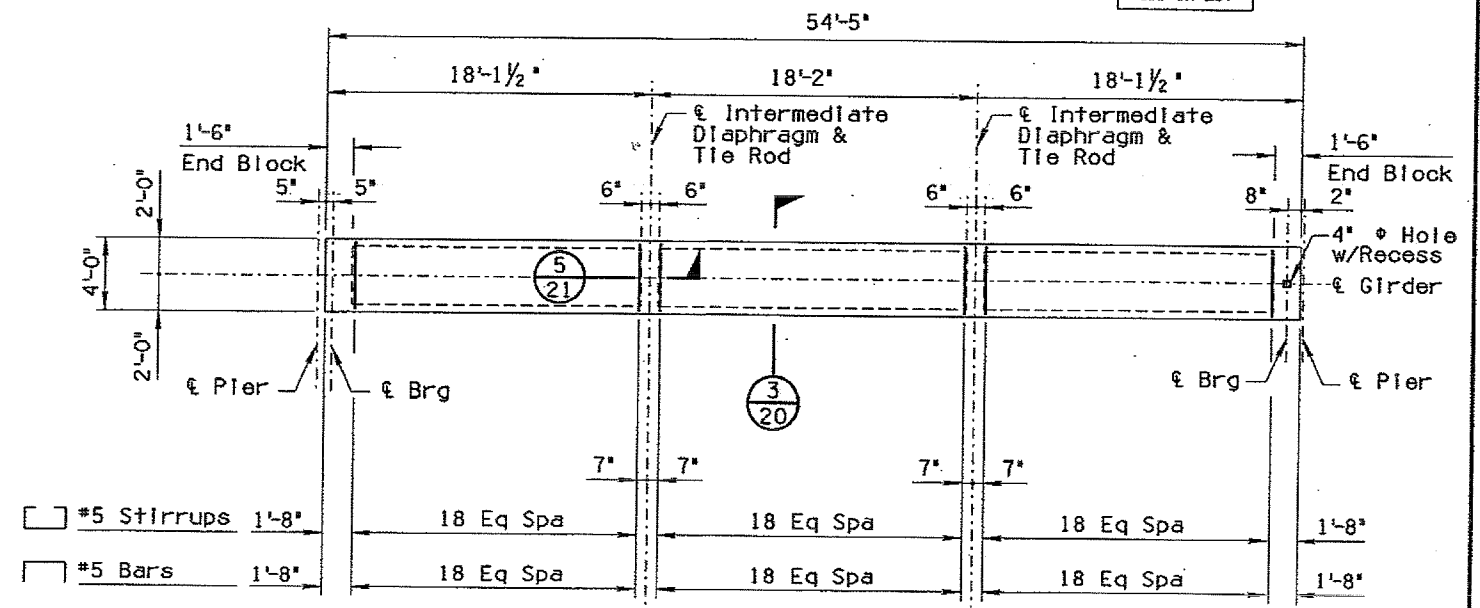
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	37	50	3/7/12

010 CH 297

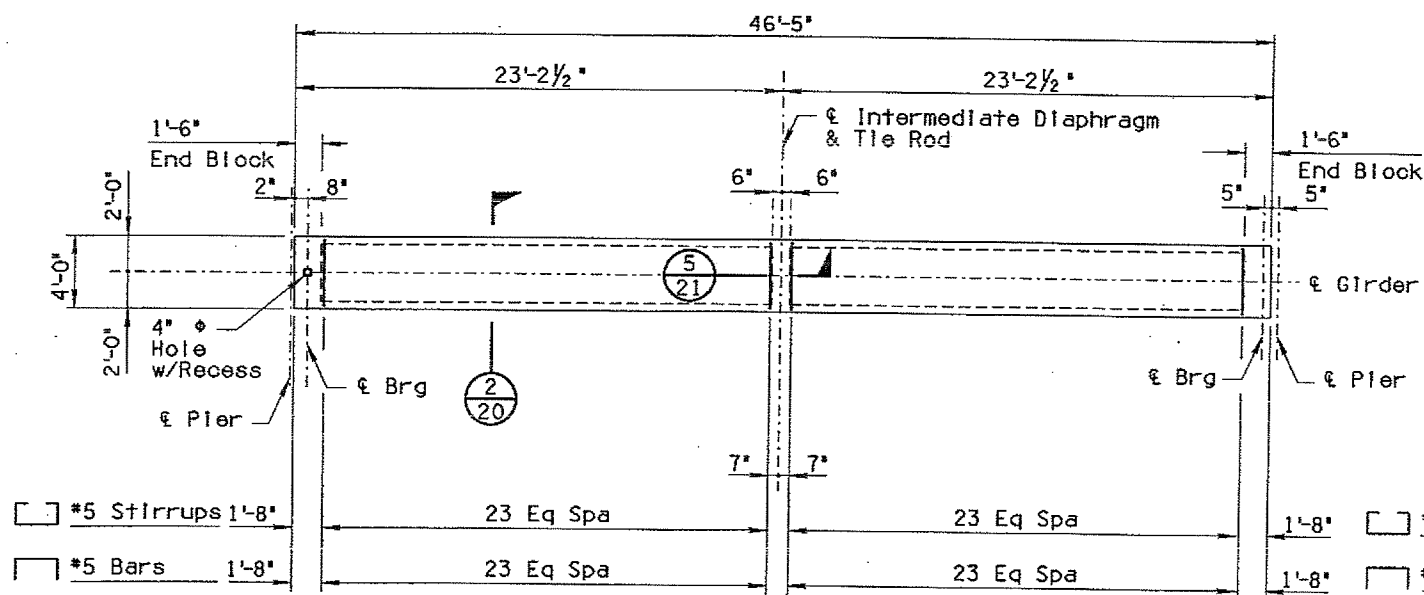


BOX BEAM PLAN (SPAN 1 SHOWN) (SPAN 5 OPP.)
N. T. S.

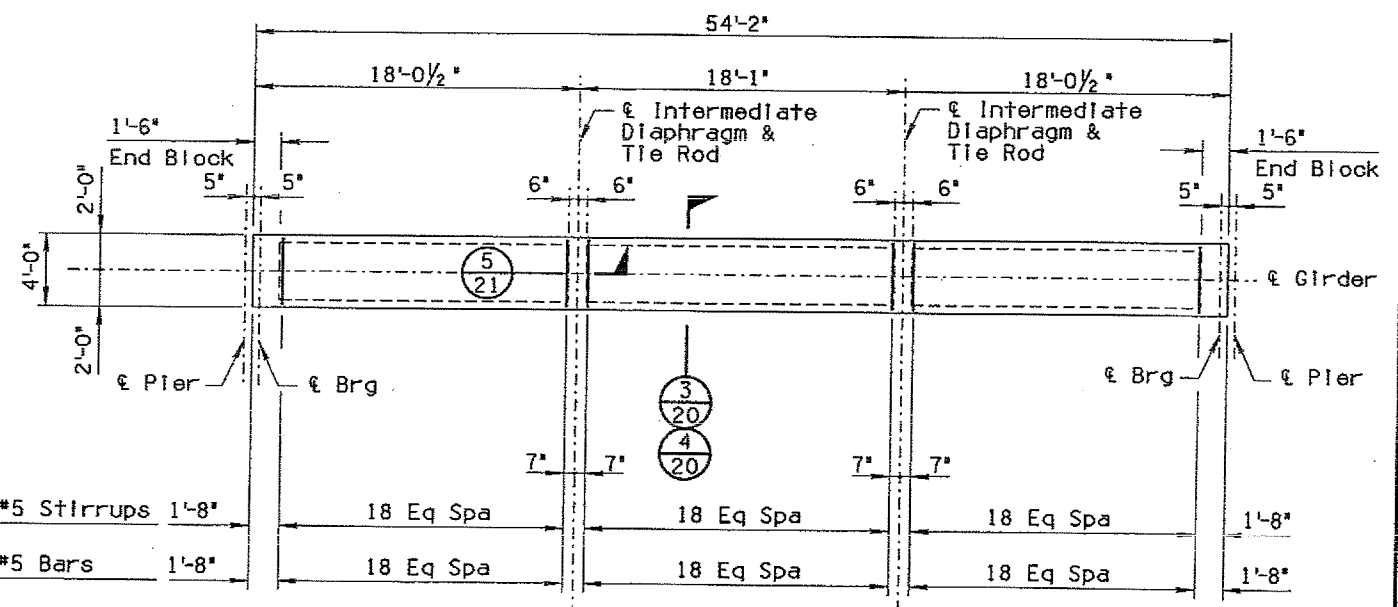
SPAN	L	L1
1	31'-3"	15'-7 1/2"
5	28'-3"	14'-1 1/2"



BOX BEAM PLAN (SPAN 2)
N. T. S.



BOX BEAM PLAN (SPAN 3)
N. T. S.



BOX BEAM PLAN (SPAN 4)
N. T. S.

BRIDGE DESIGN SECTION BY DESIGN: N. Viboamate DRAWN: R. Davis DATE: 03-11		ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP
APPROVED-PROJ. ENGINEER: N. Viboamate APPROVED-DESIGN LEADER: N. Viboamate DATE: 04-11		
I-10 ROUTE 297.17 MILEPOST 0517 STRUCTURE NO.		STA. 50+ MESCAL ROAD TI UP PRECAST BOX GIRDER DETAILS 1 LOCATION: MESCAL ROAD TI UP #0517
TRACS NO. H 8336 01C		010-E(211)A 42 OF 55

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	38	50	3/7/12

010 CH 297

PRESTRESSING NOTES:

CONCRETE

f'_{ci} = 4500 psi Minimum concrete strength at transfer
 f'_{c} = 5500 psi Minimum concrete strength at 28 days.

Top surface of the girders shall be intentionally roughened to an amplitude of approx $\frac{1}{4}$ ". Concrete curing compound shall not be applied.

The Contractor shall adjust the dimensions shown on the drawing to account for elastic shortening, creep and shrinkage occurring between the time of casting and the erection of girder.

PRESTRESSING

Girders shall be prestressed by the pretensioning method only.

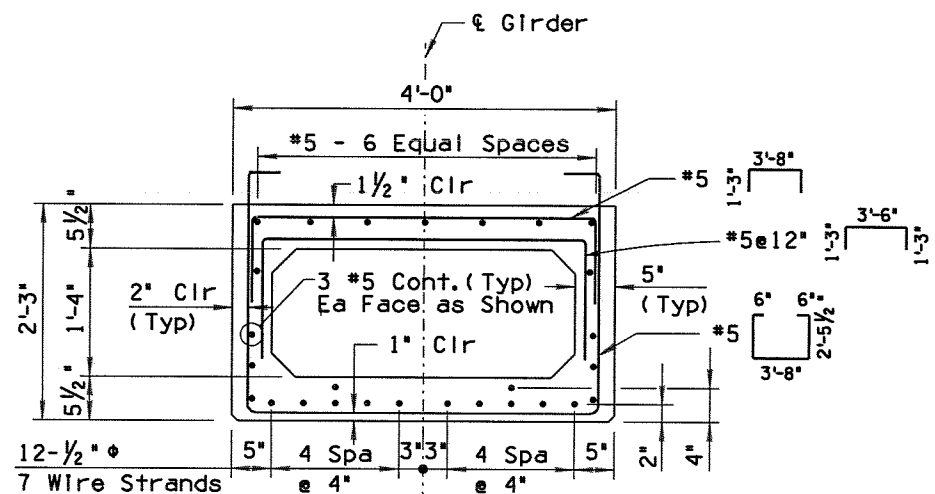
Use of masked strands will not be allowed.

For prestressing force, see Girder Schedule.

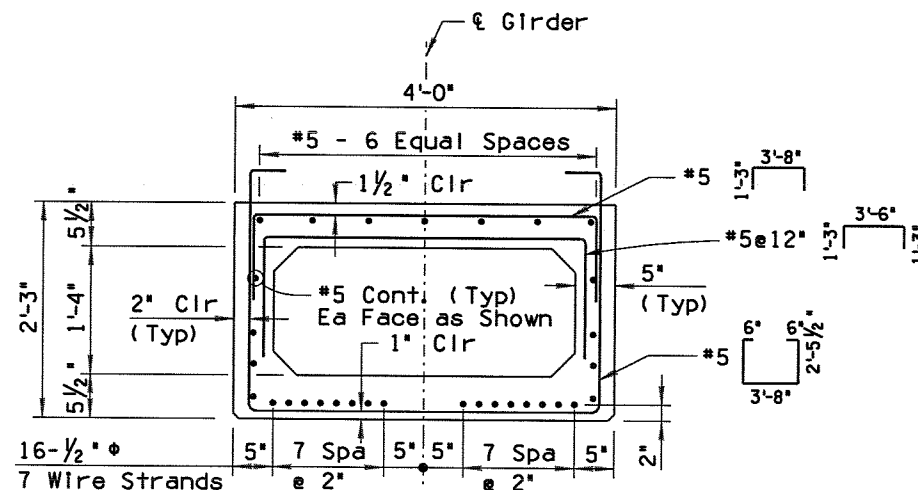
P_i = Kips Initial tension before losses
 P_w = Kips Working force after losses.

STRANDS

$\frac{1}{2}$ " dia ASTM A416 grade 270. 7-Wire low relaxation prestressing strands.
 f'_{s} = 270 Ksi.
 All low relaxation strands shall be stressed to 0.75 f'_{s}

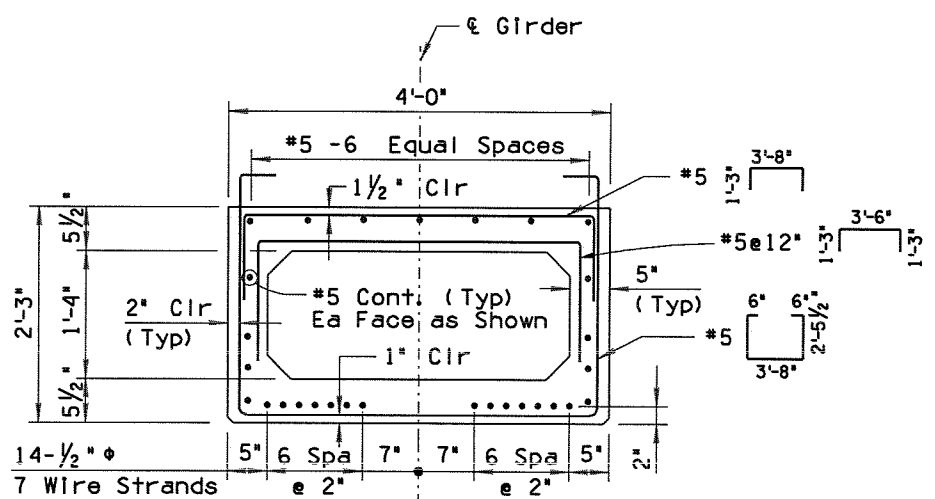


SECTION 1
 (Strand Pattern 1)
 Scale 1"=1'-0"

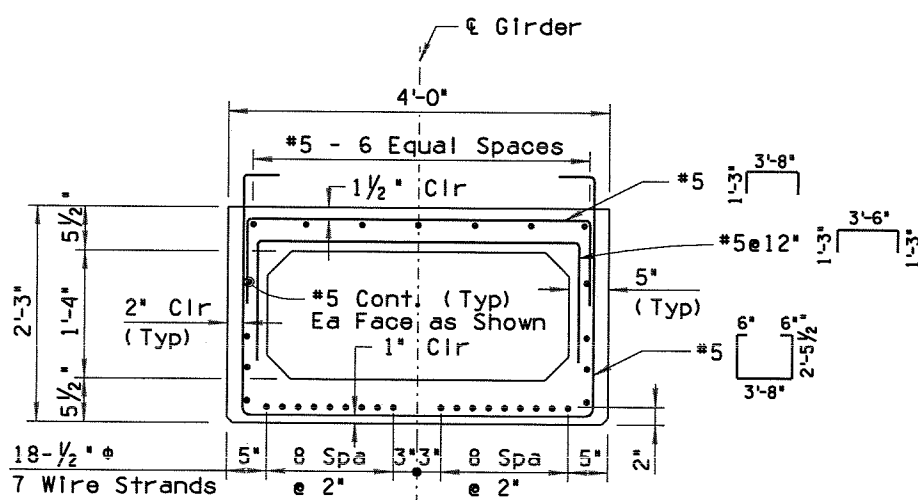


SECTION 3
 (Strand Pattern 3)
 Scale 1"=1'-0"

NOTE:
 See previous drawing for #5 stirrup and top bar spacing.



SECTION 2
 (Strand Pattern 2)
 Scale 1"=1'-0"



SECTION 4
 (Strand Pattern 4)
 Scale 1"=1'-0"

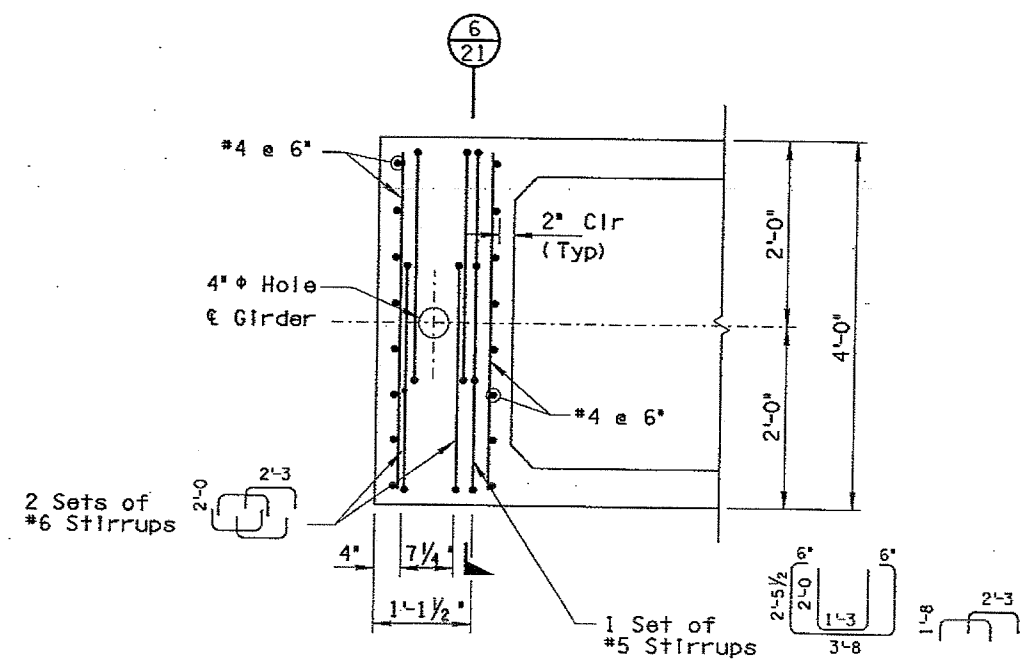
NOTE:
 Any reinforcing that projects beyond the Concrete Girder surface, shall be epoxy coated.

SPAN	Prestress		Number of Beams	Beam Number	
	Standard Pattern	Initial Force P_i Kips			Working Force P_w Kips
1-Interior	1	371.79	320.63	6	2 thru 7
1-Exterior	1	371.79	320.63	1	1
2-Interior	3	495.70	430.02	6	2 thru 7
2-Exterior	4 Δ	557.69	482.06	1 Δ	1
3-Interior	2	433.80	376.80	6	2 thru 7
3-Exterior	2	433.80	376.80	1	1
4-Interior	3	495.70	430.02	6	2 thru 7
4-Exterior	4 Δ	557.69	482.06	1 Δ	1
5-Interior	1	371.79	320.63	6	2 thru 7
5-Exterior	1	371.79	320.63	1	1

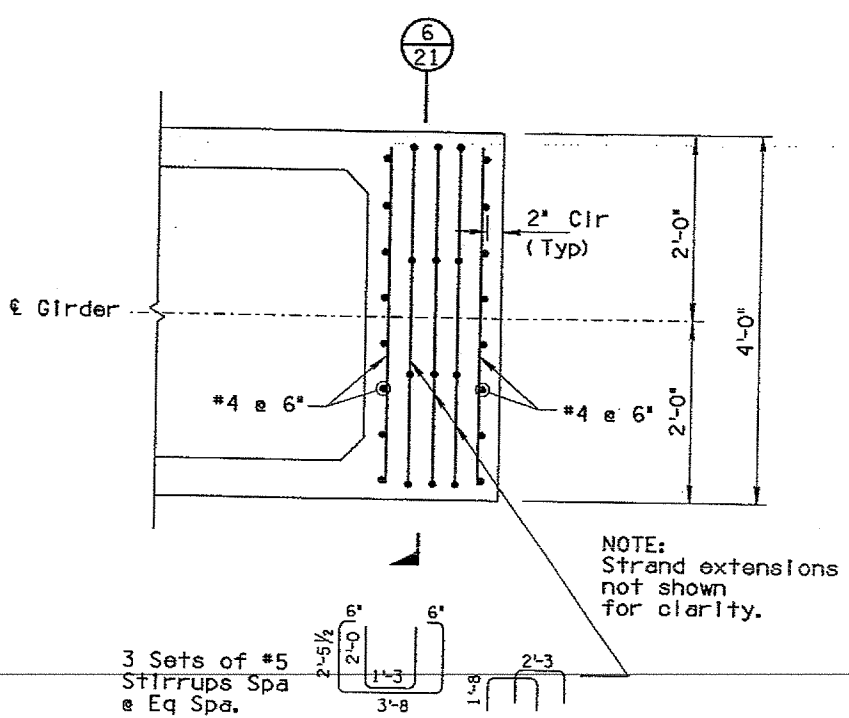
DESIGN	N. Viboolmate	03-11	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP	
DESIGN CK'D	R. Davis	03-11		
DRAWN	R. Davis	03-11		
DWG CK'D	R. Davis	03-11		
APPROVED-PROJ. ENGINEER	N. Viboolmate	04-11	STA. 50+ MESCAL ROAD TI UP PRECAST BOX GIRDER DETAILS 2	
APPROVED-DESIGN LEADER	N. Viboolmate	04-11		
I-10	297.17	0517	LOCATION MESCAL ROAD TI UP *0517	
TRACS NO. H 8336 01C			010-E(211)A	DWG. 5-01.20 OF 29

F.I.M.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	39	50	3/7/12

010 CH 297



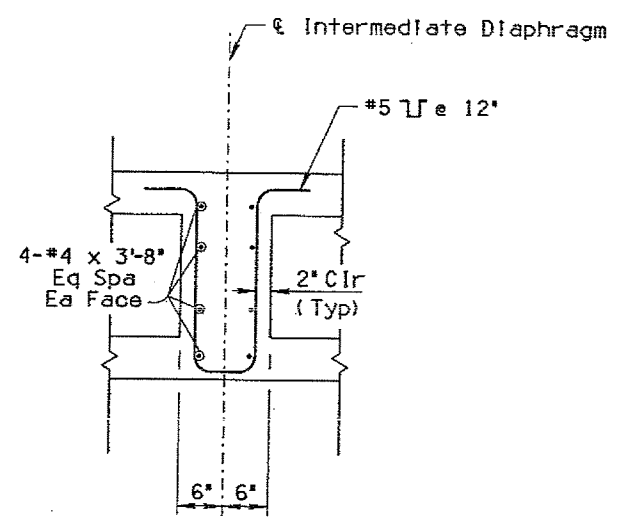
EXPANSION END BLOCK DETAIL
Scale 1" = 1'-0"



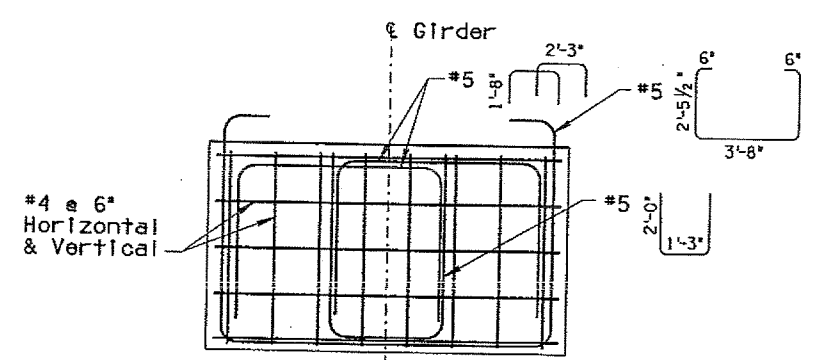
PINNED END BLOCK DETAIL
Scale 1" = 1'-0"

STRAND EXTENSION NOTES:
Extend strands at piers 1,3 and 4
Pier 1 and 4 Extend 6 Strands (Pattern 1) and 8 Strands (Pattern 2) 8" Horizontal & 22" Vertical
Pier 3 Extend 8 Strands (Pattern 2) and 6 Strands (Pattern 3) 8" Horizontal & 22" Vertical

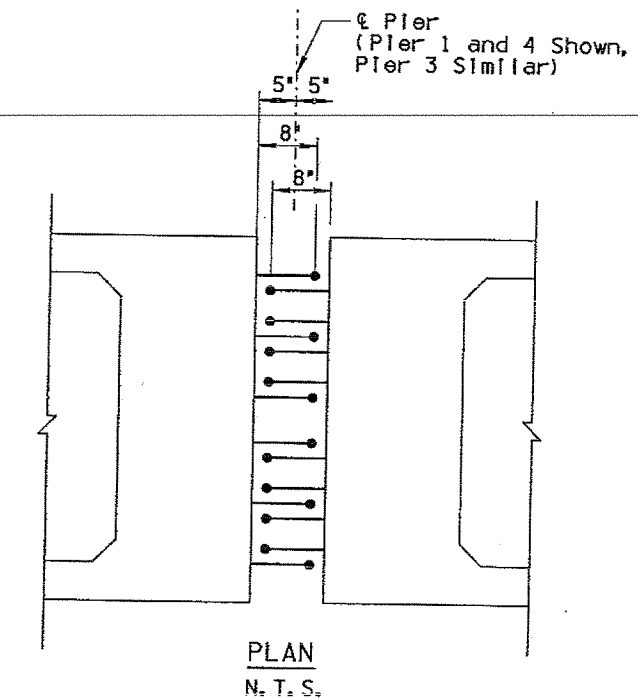
NOTE: Strand extensions not shown for clarity.



SECTION 5
Scale 1" = 1'-0"



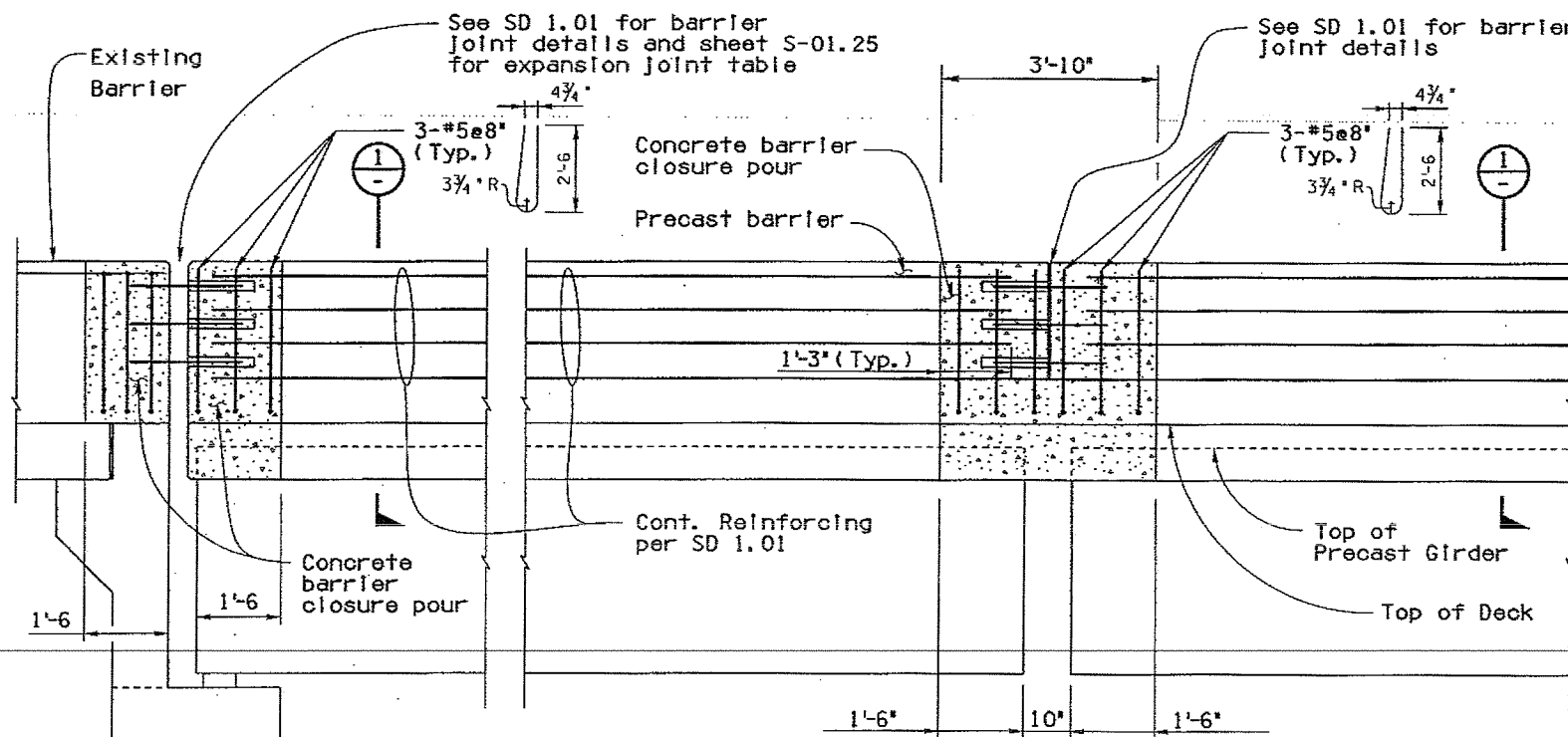
SECTION 6
Scale 1" = 1'-0"



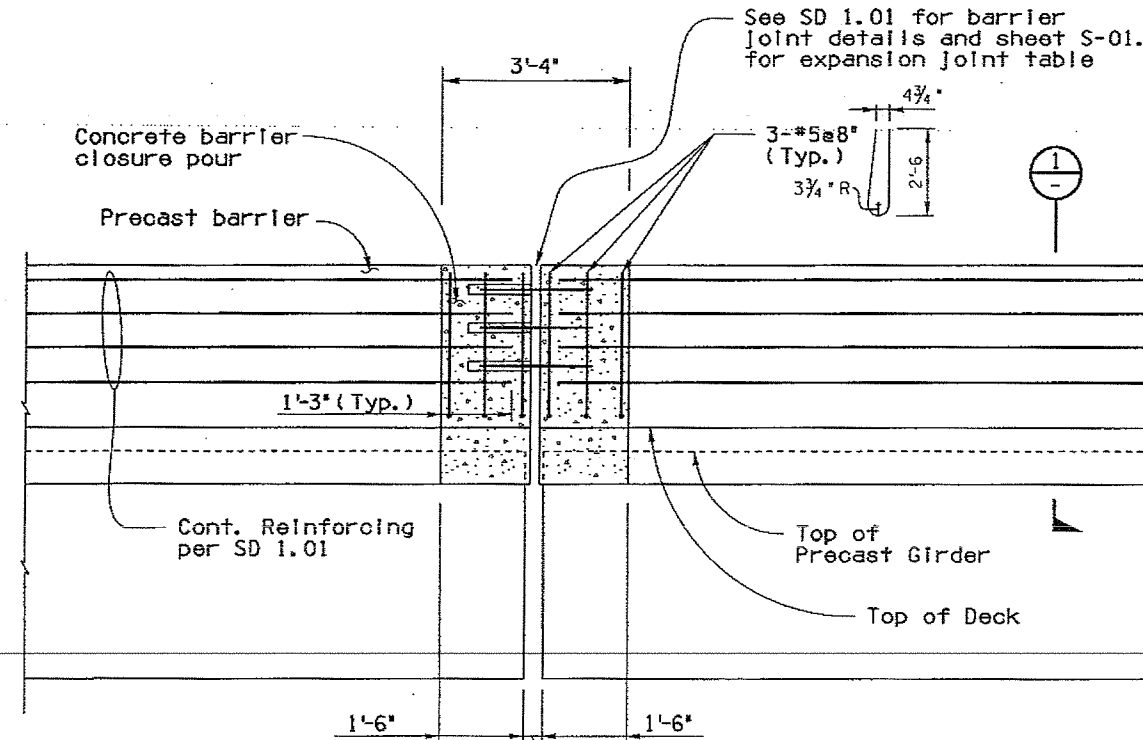
NOTE:
Any reinforcing that projects beyond the Concrete Girder surface, shall be epoxy coated.

BRIDGE DESIGN SECTION BY			DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP	
DESIGN	N. Vrbornate	03-11		STA. 50+ MESCAL ROAD TI UP PRECAST BOX GIRDER DETAILS 3 MESCAL ROAD TI UP #0517 TRACS NO. H 8336 OIC 010-E(211)A DWG. 5-01.21 OF 29 44 OFSS	
DESIGN CRTD	R. Davis	03-11			
URBAN	R. Davis	03-11			
DWG CRTD	R. Davis	03-11			
APPROVED-PROJ. ENGINEER	N. Vrbornate	04-11			
APPROVED-DESIGN LEADER	N. Vrbornate	04-11			
I-10	297.17	0517	LOCATION		
ROUTE	MILEPOST	STRUCTURE NO.			

F.H.R.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	40	50	3/3/12
010 CH 297					



Barrier Closure Pour at Continuous Pier
Scale: 5/8" = 1'-0"

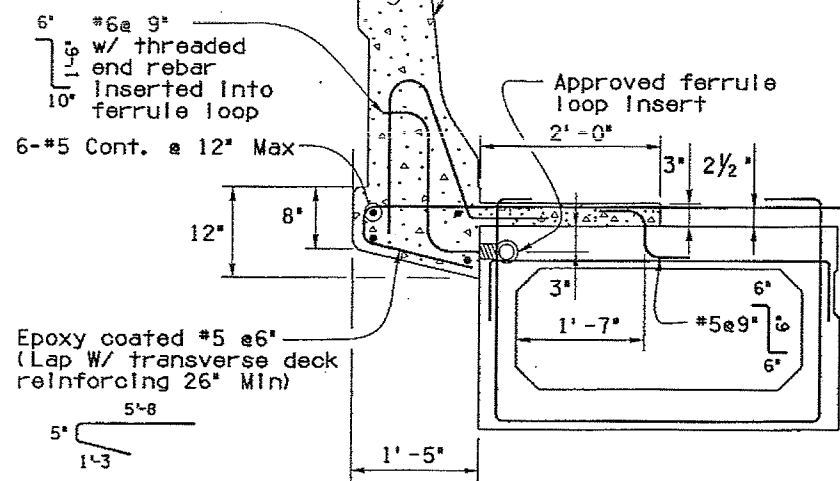


Barrier Closure Pour at Expansion Pier
Scale: 5/8" = 1'-0"

Barrier Closure Pour at Abutment
Scale: 5/8" = 1'-0"

Indicates f'c = 4,500psi

Shaded Area Indicates Secondary Pour at the Precasting Yard Prior to Transportation
For Barrier Reinf Not Shown, See Std Dwg SD1.01 with f'c = 4,500psi
Barrier shall be constructed plumb to match existing



SECTION 1
(Exterior Box Beam)
Scale: 1" = 1'-0"

NOTES:

Lifting points for the precast box beams shall be determined by the precaster to account for additional barrier and deck overhang weight. Calculations shall be submitted as part of the shop drawing submittal.

Special consideration shall be given during transportation and placement of the exterior girders due to additional weight.

Precast Barrier Length = 199'-6"

Cast-in-place Barrier = 22'-6"

Precast Barrier and Cast-in-place Barrier are paid with Item No. 6011130 F-Shape Bridge Concrete Barrier & Transition (32")

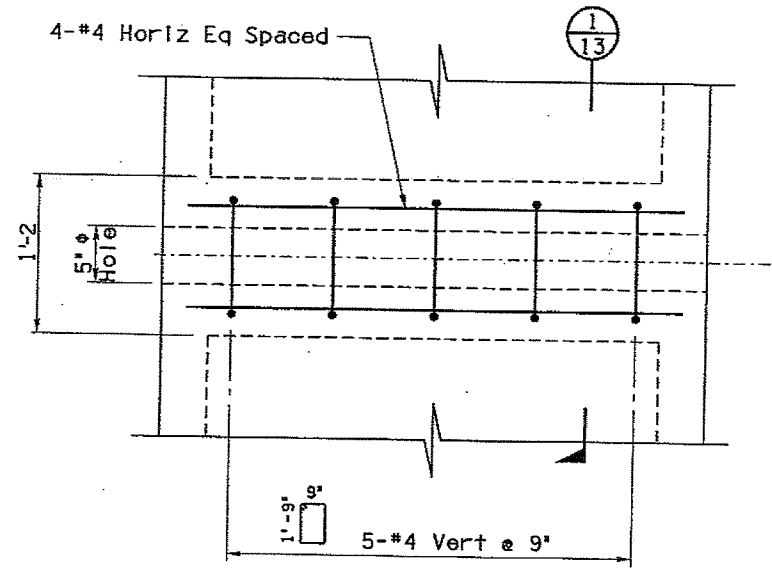
THREADED INSERT NOTE:

Inserts are Std. threaded with enclosed threads for 3/4" Dia. threaded rod (typ.) Inserts shall be ferrule loop type which develop an ultimate pullout strength of 10,800 lbs. The Inserts shall be placed normal to the girder web.

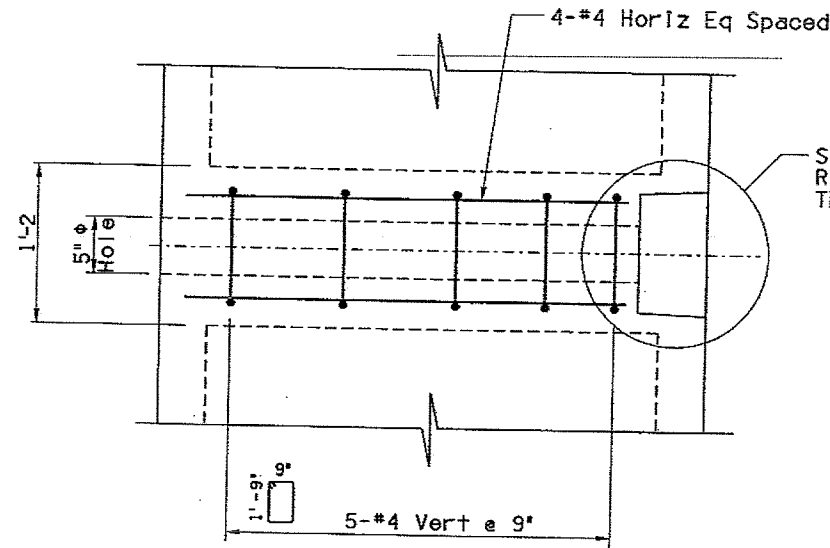
BROKER DESIGN SECTION BY		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP	
DESIGN	N. Viboolmate	03-11	STA. 50+ MESCAL ROAD TI UP PRECAST BOX GIRDER DETAILS 4	
DESIGN CKD	R. Davis	03-11		
DRAWN	R. Davis	03-11		
DWG CKD	R. Davis	03-11		
APPROVED-PROJ. ENGINEER	N. Viboolmate	04-11	MESCAL ROAD TI UP #0517 LOCATION	
APPROVED-DESIGN LEADER	N. Viboolmate	04-11		
I-10	297.17	0517	MESCAL ROAD TI UP #0517	
ROUTE	MILEPOST	STRUCTURE NO.	MESCAL ROAD TI UP #0517	
TRACS NO. H 8336 01C			010-E(211)A	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	41	50	3/7/12

010 CH 297



INTERIOR GIRDER PLAN
Scale: 1/2" = 1'-0"



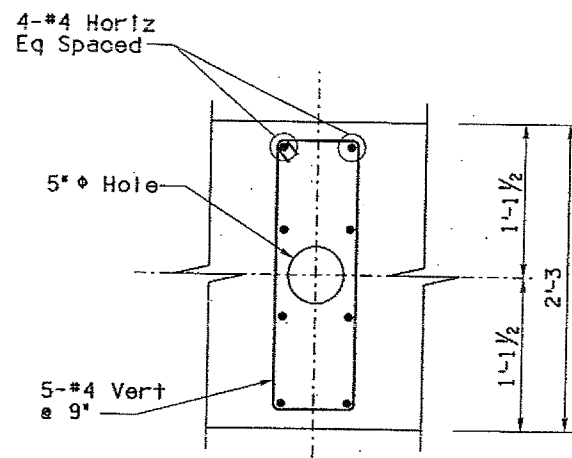
EXTERIOR GIRDER PLAN
Scale: 1/2" = 1'-0"

See ANCHORAGE RECESS DETAIL, This Sheet.

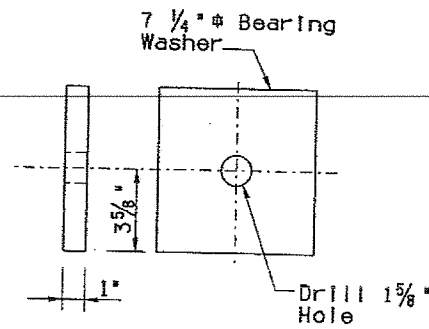
TIE ROD NOTES:

1. Tie stock rod, anchor plates, bearing washers and nuts shall conform to ASTM A36 and shall be galvanized in accordance with ASTM A153 (AASHTO M-232).
2. Lateral ties shall be provided through the diaphragm and tensioned to 30,000 lbs.
3. Tie rods shall be tightened from one end.
4. Excess tie rod, if any, shall be cut off to allow proper drypacking of recess pocket.
5. Recess pockets shall be drypacked and finished flush w/ surface.
6. Final total length of the tie rods can be achieved by using threaded couplers. Welded splices will not be allowed. The tie rods shall have a minimum of 6" coarse threads each end.

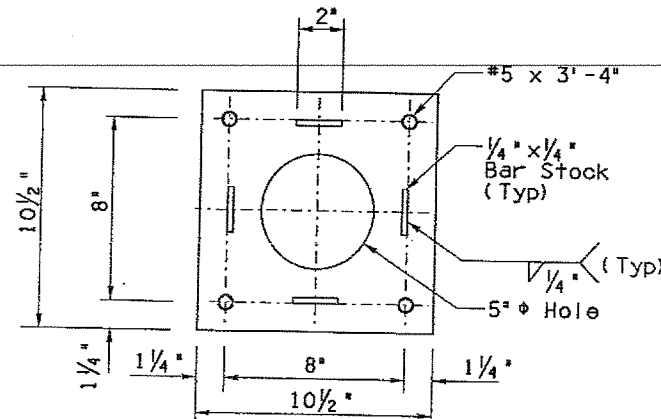
7. Use non-shrink grout to fill the lateral tie block outs.
8. Concrete topping shall be poured after lateral tie rods have been tightened.



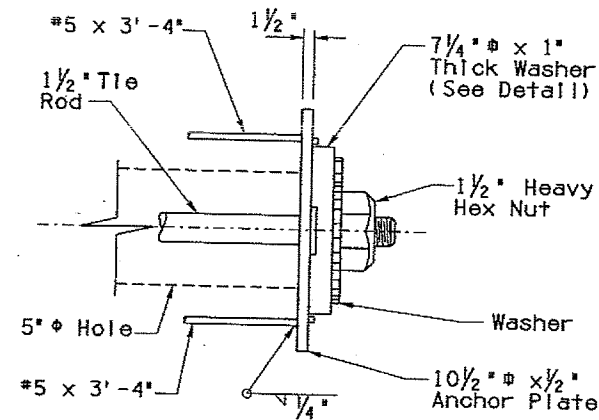
SECTION 1
Scale: 1/2" = 1'-0"



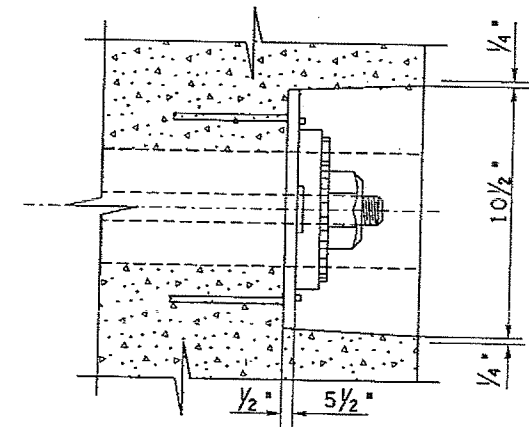
BEARING WASHER DETAIL
Scale: 3" = 1'-0"



ANCHOR PLATE DETAIL
Scale: 3" = 1'-0"



LATERAL TIE ANCHOR
Scale: 3" = 1'-0"



ANCHORAGE RECESS DETAIL
Scale: 3" = 1'-0"

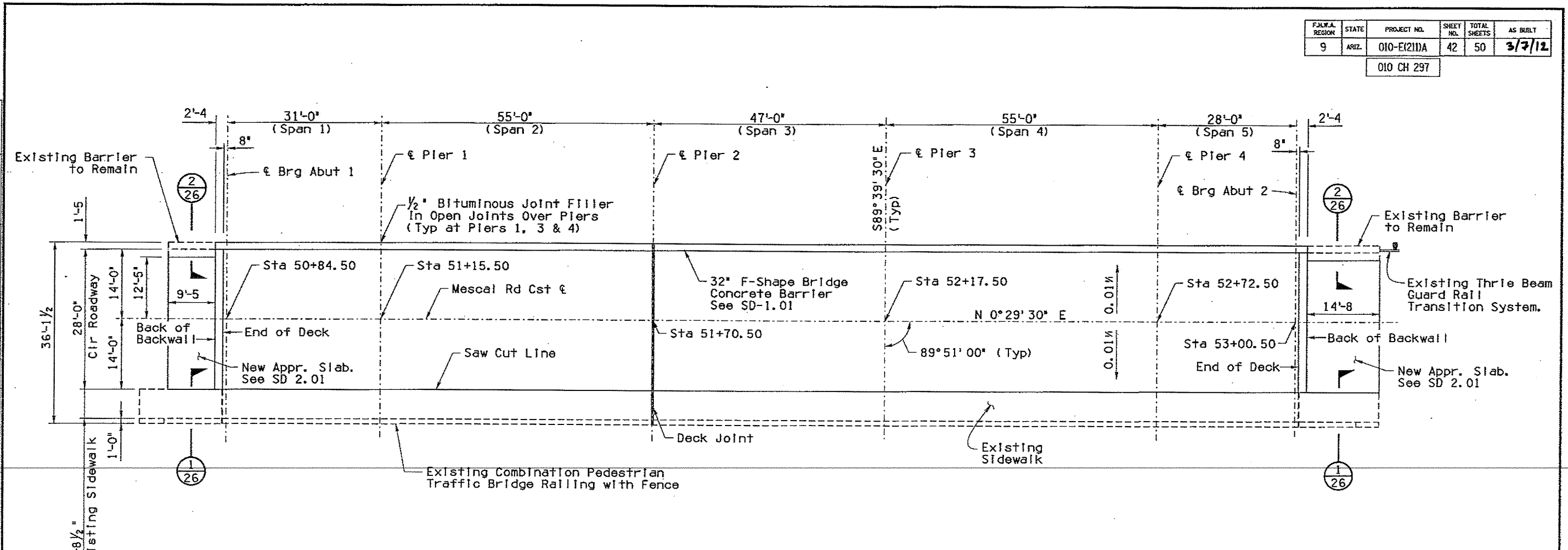
BRIDGE DESIGN SECTION BY		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP
DESIGN	N. Viboolmate	03-11	
DESIGN CKD	R. Davis	03-11	
DRWN	R. Yingling	03-11	
CHKD	R. Davis	03-11	
APPROVED-PROJ. ENGINEER	N. Viboolmate	04-11	
APPROVED-DESIGN LEADER	N. Viboolmate	04-11	
I-10 ROUTE	297.17	0517	LOCATION
MILEPOST		STRUCTURE NO.	MESCAL ROAD TI UP *0517
TRACS NO. H 8336 OIC			010-E(211)A

STA. 50+
MESCAL ROAD TI UP
PRECAST BOX GIRDER DETAILS 5

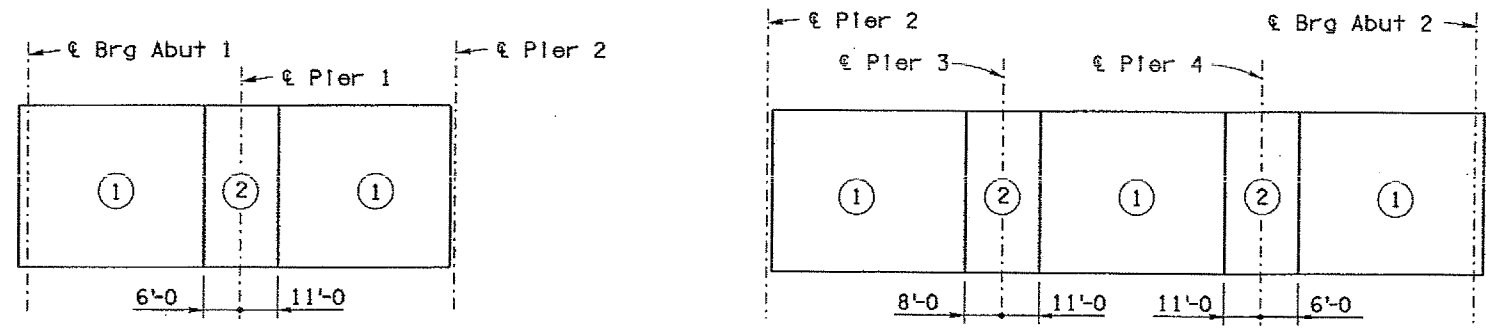
41975
NATIONAL
VIBOOLMATE
REGISTERED PROFESSIONAL ENGINEER
STATE OF ARIZONA

DWG. 5-01.23 OF 29
46 OF 55

FEDERAL REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	42	50	3/7/12
010 CH 297					



DECK PLAN
Scale: 1"=10'



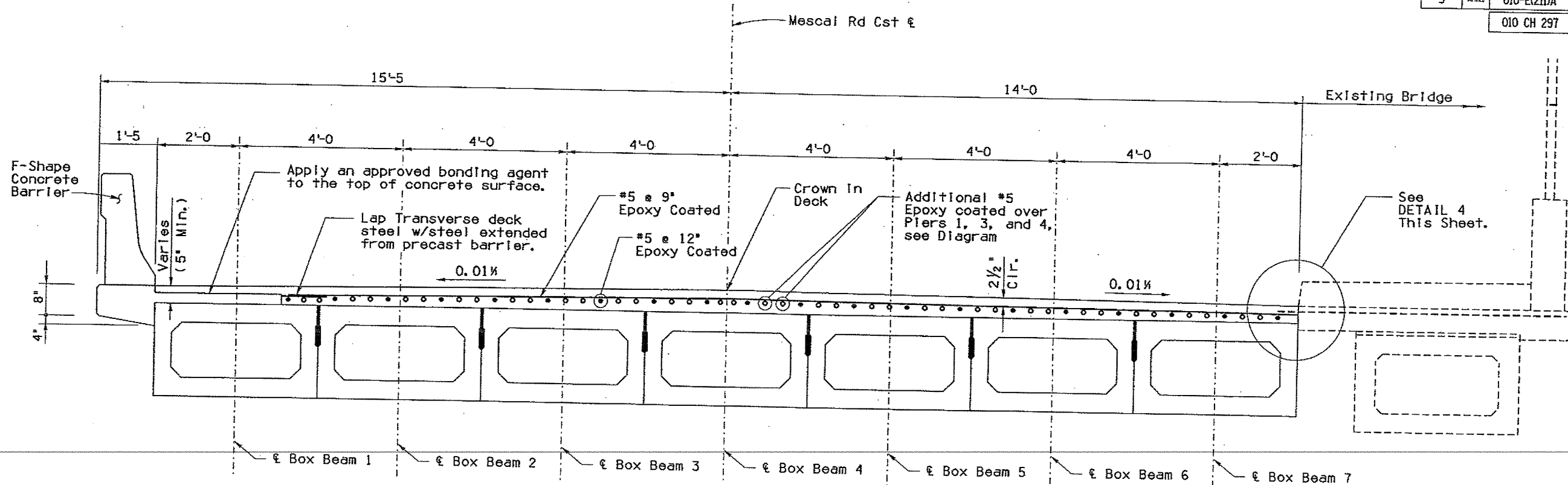
DECK POUR PLANS
Not to Scale

POUR NOTES:

- Numbers ① & ② indicate placing sequence of deck concrete. Pour ② sections a minimum of 12 hours after adjacent ① sections have been poured.
- Pier 1, Pier 3, and Pier 4 diaphragms shall be poured concurrent with the deck pour.
- Sections ① and ② may be poured consecutively but only in the direction from ① to ②.
- The Contractor shall submit a Deck Pour Schedule to the Engineer for approval prior to placing concrete.

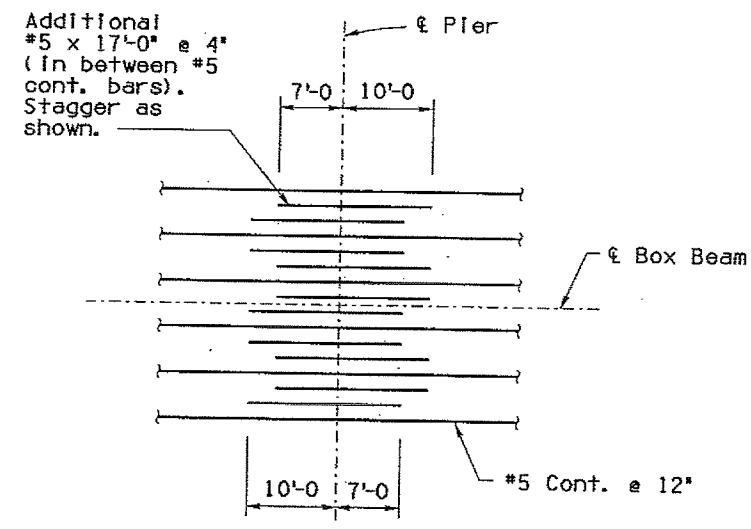
BRIDGE DESIGN SECTION #		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STA. 50+ MESCAL ROAD TI UP DECK PLAN 41879 NAVAPAH VIBOOLMATE ARIZONA, U.S.A. EXP. 3/31/2014
DESIGN	N. Viboolmate	03-11	
DESIGN CKD	R. Davis	03-11	
DRAWN	S. Nokol	03-11	
DWG CKD	R. Davis	03-11	
APPROVED-PROJ. ENGINEER	N. Viboolmate	04-11	LOCATION MESCAL ROAD TI UP #0517
APPROVED-DESIGN LEADER	N. Viboolmate	04-11	
I-10	297.17	0517	DWG. S-01.24 OF 29
ROUTE	MILEPOST	STRUCTURE NO.	TRACS NO. H 8336 01C
			010-E(211)A
			47 OF 55

F.J.M.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	43	50	3/7/12
010 CH 297					

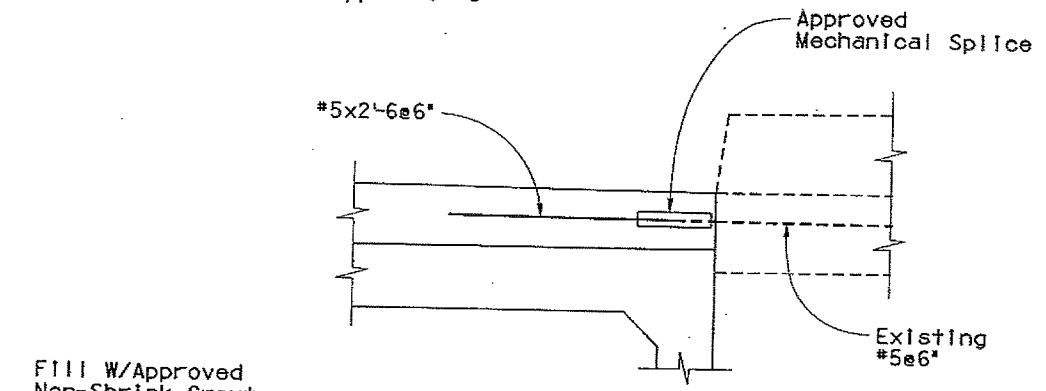


DECK CROSS SECTION

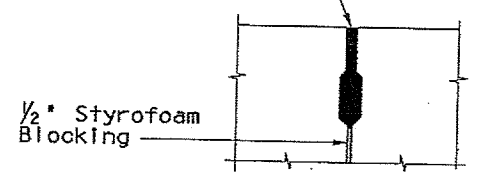
Scale: 3/4" = 1'-0"



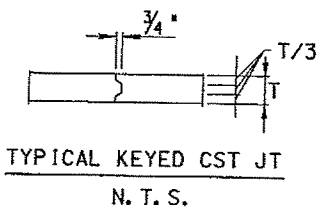
PARTIAL DECK PLAN- TOP OF DECK REINFORCEMENT AT PIERS 1, 3 AND 4
N. T. S.



DETAIL 4
Scale: 1 1/2" = 1'-0"



KEY DETAIL 3
Scale: 2" = 1'-0"



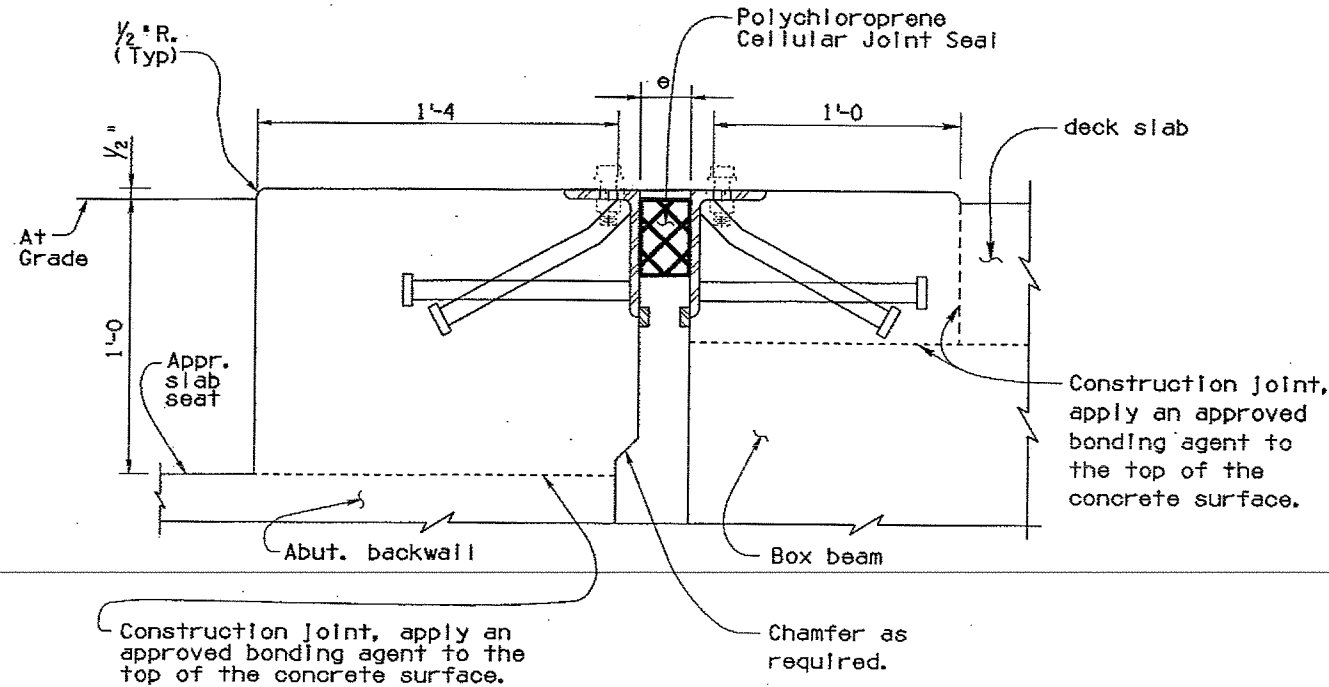
TYPICAL KEYED CST JT
N. T. S.

SUPERSTRUCTURE NOTES:

- All continuous horizontal reinforcing steel in the Deck Slab and Barriers may be spliced if approved by the Engineer with minimum lap lengths specified in Note 1.
1. Minimum lap length of bar splices shall be:
#5 bars..... 2'-2"
 2. Bars shall not be spliced within the required lap length of the adjacent bars.
 3. Transverse deck reinforcing shall not be spliced
 4. Transverse deck bars shall be placed perpendicular to the centerline of beams and the spacing shall be measured along the beams.
 6. The cost of supplying and applying bonding agent is incidental to the cost of class 's' deck concrete.
 7. The cost of mechanical splices is incidental to the cost of deck reinforcing.

BRIDGE DESIGN SECTION 'B'			DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP	
DESIGN	H. Viboolmeto	03-11	STA. 50+ MESCAL ROAD TI UP DECK CROSS SECTION LOCATION MESCAL ROAD TI UP *0517 TRACS NO. H 8336 01C 010-E(211)A 48 OF 55		
DESIGN CRD	R. Davis	03-11			
DRAWN	S. Nickel	03-11			
DWG CRD	R. Davis	03-11			
APPROVED-PROJ. ENGINEER	H. Viboolmeto	04-11			
APPROVED-DESIGN LEADER	H. Viboolmeto	04-11	41979 NAVAPHAM VERDOLMATE ARIZONA, U.S.A. REGISTERED PROFESSIONAL ENGINEER		
ROUTE	297.17	0517	LOCATION	MESCAL ROAD TI UP *0517	
MILEPOST			STRUCTURE NO.		
MESCAL ROAD TI UP			MESCAL ROAD TI UP *0517		
TRACS NO. H 8336 01C			010-E(211)A		
			48 OF 55		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	44	50	3/7/12
010 CH 297					



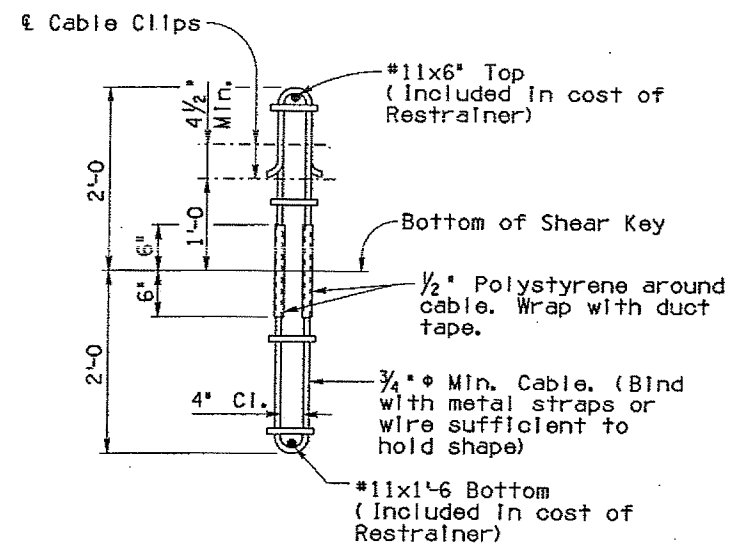
EXPANSION JOINT NOTE:

Joint shall be installed 1/2" above grade to match overlay at approaches. For details not shown, see Dwg. SD 3.01. The Contractor shall take due care in the placement of the concrete under the joint angles to ensure that consolidation is properly achieved. After placement, the Engineer shall inspect joints for voids by sounding the angle with a hammer. The Contractor shall repair all voids by epoxy injection.

Abut. 1	2x2
Pier 2	3x3
Abut. 2	2x2

Temp °F	Abut. 1 e(Inches)	Pier 2 e(Inches)	Abut. 2 e(Inches)
20	1.250	2.000	1.250
30	1.219	1.922	1.203
40	1.188	1.845	1.156
50	1.157	1.767	1.111
60	1.126	1.689	1.063
70	1.095	1.611	1.016
80	1.064	1.533	0.969
90	1.033	1.456	0.922

EXPANSION JOINT DETAIL
(Abut. #1 shown, Abut. #2 similar)
Scale: 3" = 1'-0" ①



FIXED RESTRAINER DETAILS
Scale: 1" = 1'-0" ①

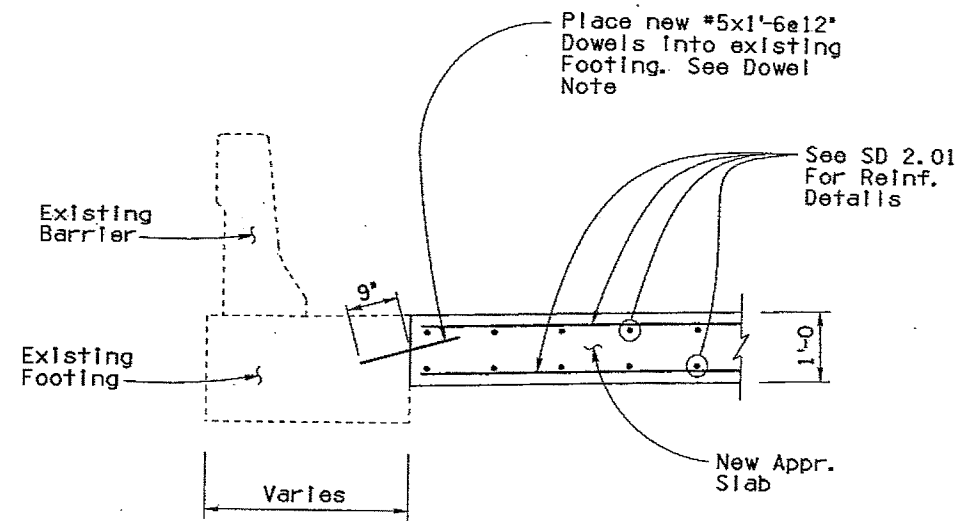
RESTRAINER NOTES:

Seal all openings in structural tube to prohibit concrete intrusion.

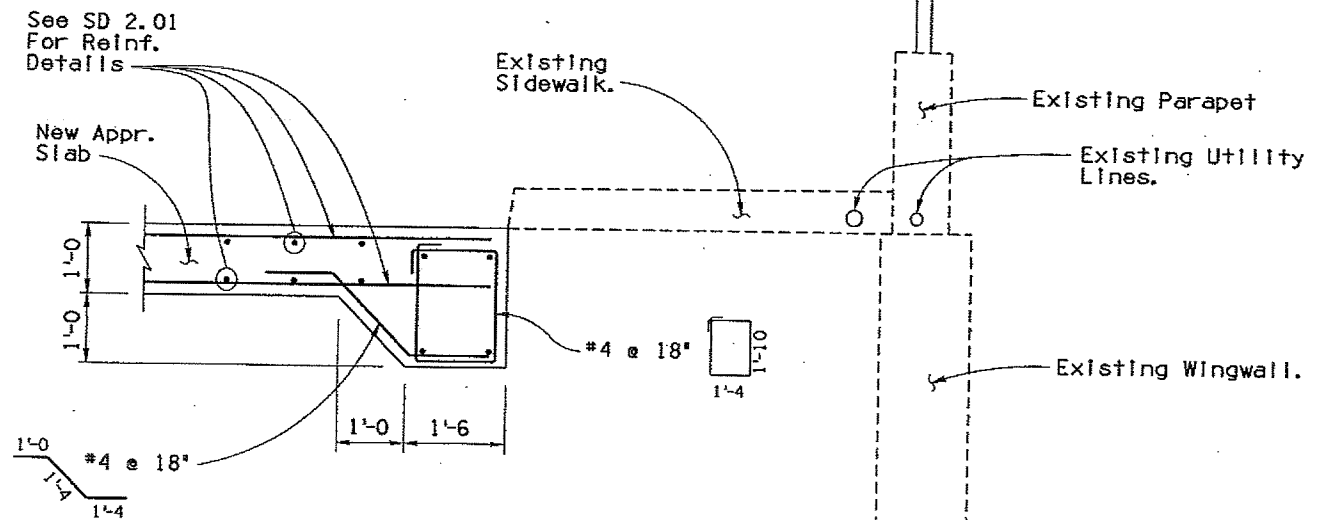
Restrainer Cables shall be 3/4" diameter preformed 6 x 19 galvanized with the minimum breaking strength of 42 kips. One sample of cable 3 feet in length shall be furnished to the Engineer for testing.

BRIDGE DESIGN SECTION BY			DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP	
DESIGN	N. Vitoonmate	03-11			
DESIGN C/D	R. Davis	03-11			
DRAWN	S. Nickel	03-11			
DWG C/D	R. Davis	03-11			
APPROVED-PROJ. ENGINEER	N. Vitoonmate	04-11		STA. 50+ MESCAL ROAD TI UP MISCELLANEOUS DETAILS 1	
APPROVED-DESIGN LEADER	N. Vitoonmate	04-11			
I-10	297.17	0517	LOCATION	MESCAL ROAD TI UP *0517	DWG. S-01.26 OF 29
ROUTE	MILEPOST	STRUCTURE NO.			49 OF 55
TRACS NO. H 8336 01C				010-E(211)A	

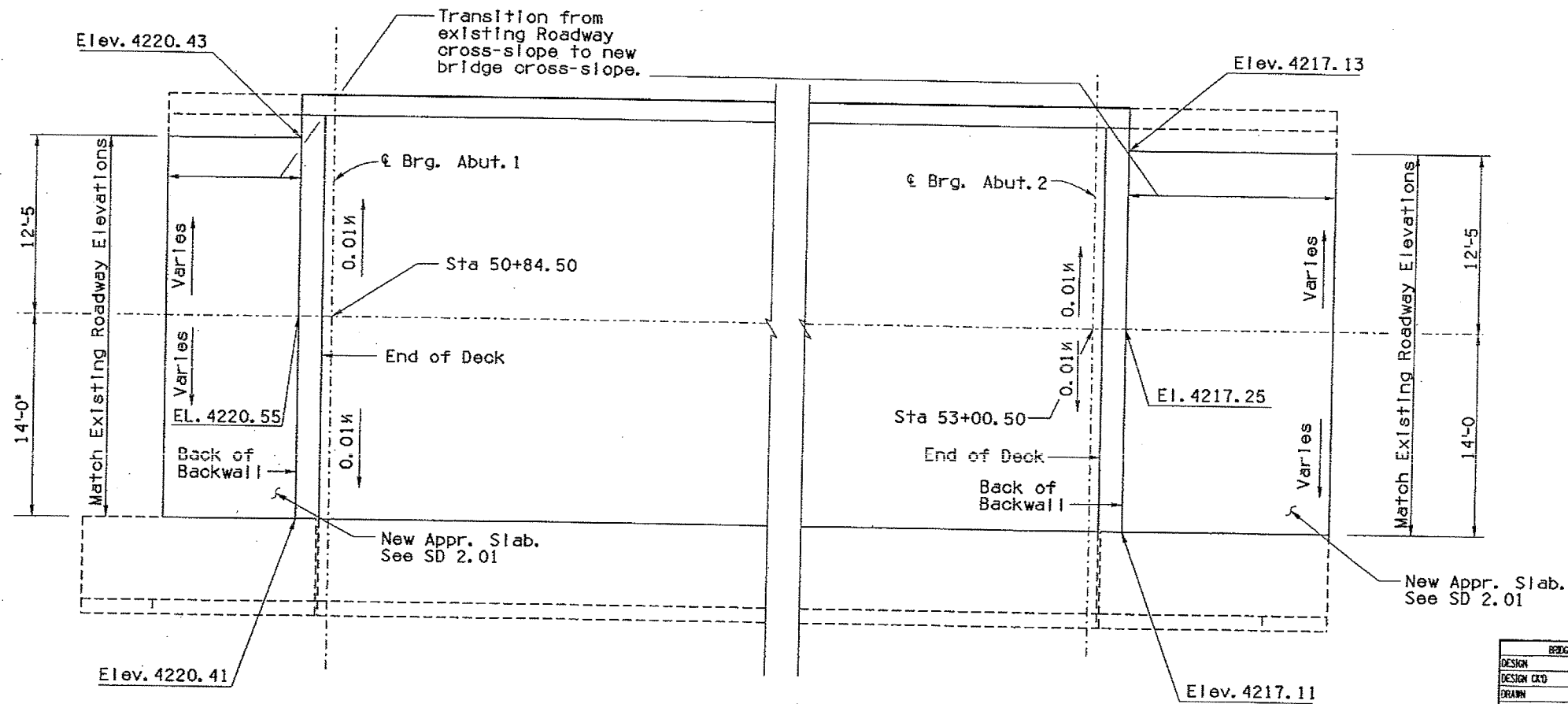
F.M.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	45	50	3/7/12
010 CH 297					



SECTION 2
Scale: 3/4" = 1'-0"



SECTION 1
Scale: 3/4" = 1'-0"



APPROACH SLAB PLAN
Scale: 1" = 5'

NOTE:

Drill 7/8" Inch diameter hole 6 inches deep for #5 dowel. Epoxy dowel in hole with an approved epoxy adhesive. Epoxy anchorage shall develop a tensile pullout strength of 9 kips for #5 dowels. Details of the anchorage system shall be submitted to the Engineer for approval prior to installation.

BRIDGE DESIGN SECTION #			DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP
DESIGN	N. Viboolmate		03-11	
DESIGN CKD	R. Davis		03-11	
DRANN	R. Yingling		03-11	
DWG CKD	R. Davis		03-11	
APPROVED-PRAL ENGINEER	N. Viboolmate		04-11	STA. 50+ MESCAL ROAD TI UP MISCELLANEOUS DETAILS 2
APPROVED-DESIGN LEADER	N. Viboolmate		04-11	
I-10	297.17	0517	LOCATION	MESCAL ROAD TI UP #0517
ROUTE	MILEPOST	STRUCTURE NO.		
TRACS NO. H 8336 01C				010-E(211)A



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	46	50	3/7/12

010 CH 297

DEFLECTION (ft.) BEAM 1										
	Span	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
Initial	1	.010	.018	.023	.026	.027	.026	.023	.018	.010
Initial	2	.048	.083	.106	.120	.124	.120	.106	.083	.048
Initial	3	.024	.042	.054	.061	.063	.061	.054	.042	.024
Initial	4	.048	.082	.106	.119	.123	.119	.106	.082	.048
Initial	5	.009	.015	.020	.022	.023	.022	.020	.015	.009
Final	1	.002	.004	.005	.006	.006	.006	.005	.004	.002
Final	2	.017	.033	.045	.053	.056	.053	.045	.033	.016
Final	3	.009	.017	.024	.028	.030	.028	.024	.017	.009
Final	4	.017	.033	.045	.053	.056	.053	.045	.033	.017
Final	5	.001	.002	.003	.004	.004	.004	.003	.002	.001

DEFLECTION (ft.) BEAM 2-7										
	Span	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
Initial	1	.010	.018	.023	.026	.027	.026	.023	.018	.010
Initial	2	.033	.057	.072	.080	.083	.080	.072	.057	.033
Initial	3	.020	.034	.043	.049	.050	.049	.043	.034	.020
Initial	4	.033	.056	.072	.080	.083	.080	.072	.056	.033
Initial	5	.009	.015	.020	.022	.023	.022	.020	.015	.009
Final	1	.001	.002	.002	.003	.003	.003	.002	.002	.001
Final	2	.008	.016	.022	.026	.028	.026	.022	.016	.008
Final	3	.004	.009	.012	.014	.015	.014	.012	.009	.004
Final	4	.008	.016	.022	.026	.028	.026	.022	.016	.008
Final	5	.001	.001	.002	.002	.002	.002	.002	.001	.001

BUILD UP AT SUPPORTS	
Abut. 1	1.0'
Pier 1	1.0'
Pier 2	1.0'
Pier 3	1.0'
Pier 4	1.0'
Abut. 2	1.0'

DEFLECTION NOTES:

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 elastic shortening).

Initial Deflection equals the deflection the prestressed girder undergoes at the time of erection prior to the diaphragm or deck pours. The Initial Deflection includes the deflection due to the dead load of the girder, the initial prestressing and the effects of creep up to the time of erection, (Assumed at 7 days after release).

Final Deflection equals the deflection due to the dead load of the deck slab, diaphragms, and barriers and the effects of long term creep on the composite continuous girders.

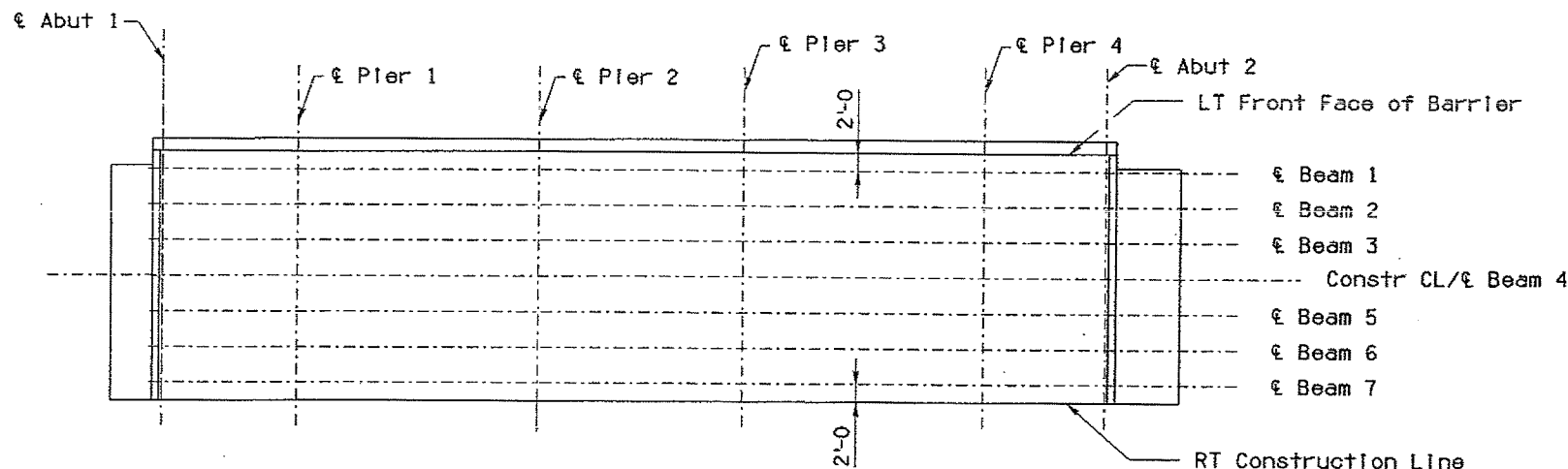
SCREED ELEVATION NOTES:

Release and Initial Deflections shall be measured at midspan for each girder and the data provided to ADOT Bridge Group, Design Section B for evaluation.

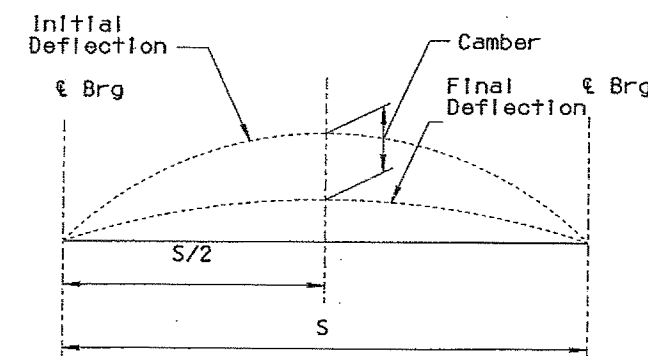
The top of the Erected Girder Elevation shall be measured in the field for the determination of the build-up, and the information provided to ADOT Bridge Group, Design Section B for evaluation.

The Screed Elevation includes an allowance for the deflection due to the dead load of the concrete deck slab, diaphragms, barriers, and the effect of long term creep.

Screed Elevations shall be used in setting screeds. Adjustments to the screed elevations, if necessary will be determined by ADOT Bridge Group, Design Section A after reviewing the top of the erected girder elevations. (DO NOT USE FINISH GRADE ELEVATIONS FOR SETTING SCREEDS.)



SCREED PLAN
Not to Scale



DEFLECTION DIAGRAM
N. T. S.

BRIDGE DESIGN SECTION #			DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP	
DESIGN	N. Viboolmate	03-11			
DESIGN C/O	R. Davis	03-11			
DRAWN	R. Yingling	03-11			
CHK C/O	R. Davis	03-11			
APPROVED-PROJ. ENGINEER	N. Viboolmate	04-11		STA. 50+ MESCAL ROAD TI UP CAMBER DETAILS	
APPROVED-DESIGN LEADER	N. Viboolmate	04-11			
I-10	297.17	0517	LOCATION	MESCAL ROAD TI UP *0517	
ROUTE	MILEPOST	STRUCTURE NO.			
TRACS NO. H 8336 01C				010-E(211)A	51 OF 55

F.W.R.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-E(211)A	47	50	3/7/12
010 CH 297					


BRIDGE SCREED ELEVATIONS

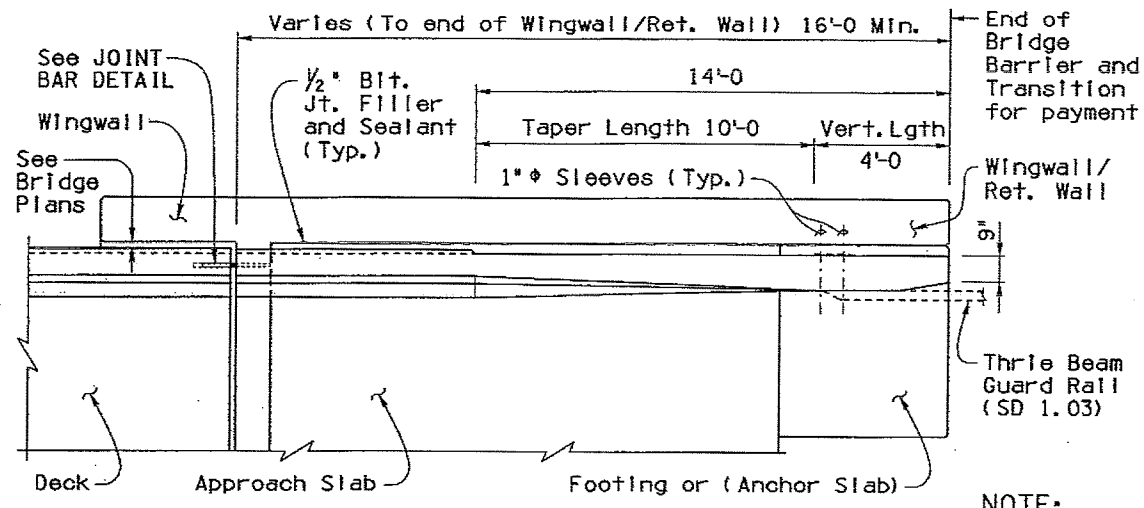
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LT BARRIER	4220.40	4220.38	4220.36	4220.33	4220.31	4220.28	4220.26	4220.23	4220.20	4220.17	4220.14	4220.10	4220.06	4220.02	4219.96	4219.90	4219.84	4219.76	4219.68	4219.59	4219.50	
CL BEAM 1	4220.42	4220.40	4220.37	4220.35	4220.33	4220.30	4220.27	4220.25	4220.22	4220.19	4220.16	4220.11	4220.07	4220.01	4219.96	4219.90	4219.83	4219.76	4219.68	4219.60	4219.52	
CL BEAM 2	4220.46	4220.44	4220.41	4220.39	4220.37	4220.34	4220.31	4220.29	4220.26	4220.23	4220.20	4220.15	4220.11	4220.05	4220.00	4219.94	4219.87	4219.80	4219.72	4219.64	4219.56	
CONSTR CL	4220.54	4220.52	4220.49	4220.47	4220.45	4220.42	4220.39	4220.37	4220.34	4220.31	4220.28	4220.24	4220.19	4220.15	4220.09	4220.04	4219.98	4219.91	4219.84	4219.76	4219.68	4219.60
CL BEAM 5	4220.50	4220.48	4220.45	4220.43	4220.41	4220.38	4220.35	4220.33	4220.30	4220.27	4220.24	4220.23	4220.19	4220.13	4220.08	4220.02	4219.95	4219.88	4219.80	4219.72	4219.64	
CL BEAM 6	4220.46	4220.44	4220.41	4220.39	4220.37	4220.34	4220.31	4220.29	4220.26	4220.23	4220.20	4220.19	4220.15	4220.09	4220.04	4219.98	4219.91	4219.84	4219.76	4219.68	4219.60	
CL BEAM 7	4220.42	4220.40	4220.37	4220.35	4220.33	4220.30	4220.27	4220.25	4220.22	4220.19	4220.16	4220.15	4220.11	4220.05	4220.00	4219.94	4219.87	4219.80	4219.72	4219.64	4219.56	
RT CST JT	4220.40	4220.38	4220.35	4220.33	4220.31	4220.28	4220.25	4220.23	4220.20	4220.17	4220.14	4220.09	4220.05	4219.99	4219.94	4219.87	4219.81	4219.74	4219.66	4219.58	4219.50	

BRIDGE SCREED ELEVATIONS

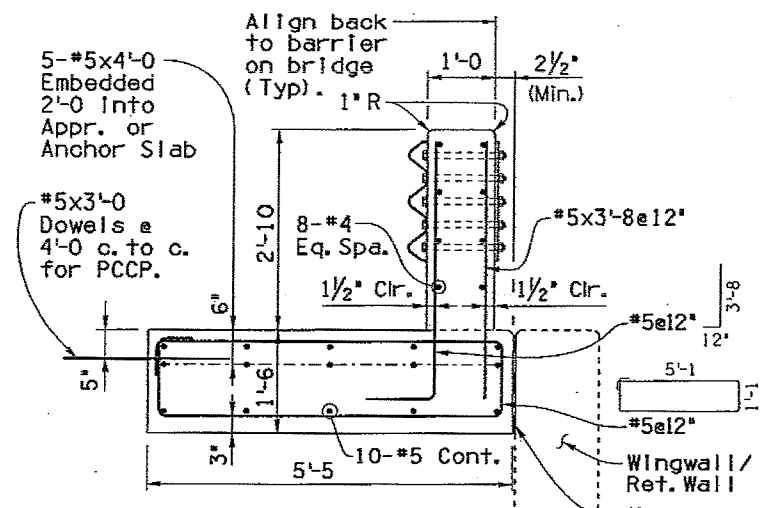
	€ Pier #2	0.1pt.	0.2pt.	0.3pt.	0.4pt.	0.5pt.	0.6pt.	0.7pt.	0.8pt.	0.9pt.	€ Pier 3	0.1pt.	0.2pt.	0.3pt.	0.4pt.	0.5pt.	0.6pt.	0.7pt.	0.8pt.	0.9pt.	€ Pier4
LT BARRIER	4219.50	4219.44	4219.38	4219.32	4219.26	4219.18	4219.11	4219.03	4218.95	4218.86	4218.77	4218.69	4218.61	4218.53	4218.44	4218.34	4218.23	4218.12	4218.00	4217.88	4217.75
CL BEAM 1	4219.52	4219.46	4219.40	4219.33	4219.26	4219.19	4219.12	4219.04	4218.96	4218.88	4218.79	4218.71	4218.62	4218.53	4218.43	4218.33	4218.22	4218.12	4218.00	4217.89	4217.77
CL BEAM 2	4219.56	4219.50	4219.44	4219.37	4219.30	4219.23	4219.16	4219.08	4219.00	4218.92	4218.83	4218.75	4218.66	4218.57	4218.47	4218.37	4218.26	4218.16	4218.04	4217.93	4217.81
CL BEAM 3	4219.60	4219.54	4219.47	4219.41	4219.34	4219.27	4219.19	4219.12	4219.04	4218.96	4218.87	4218.79	4218.70	4218.61	4218.51	4218.41	4218.30	4218.20	4218.08	4217.97	4217.85
CONSTR CL	4219.64	4219.58	4219.51	4219.45	4219.38	4219.31	4219.23	4219.16	4219.08	4218.99	4218.91	4218.83	4218.74	4218.64	4218.55	4218.45	4218.34	4218.24	4218.12	4218.01	4217.89
CL BEAM 5	4219.60	4219.54	4219.47	4219.41	4219.34	4219.27	4219.19	4219.12	4219.04	4218.95	4218.87	4218.78	4218.70	4218.60	4218.51	4218.41	4218.30	4218.20	4218.08	4217.97	4217.85
CL BEAM 6	4219.56	4219.50	4219.43	4219.37	4219.30	4219.23	4219.15	4219.08	4219.00	4218.91	4218.83	4218.74	4218.66	4218.56	4218.47	4218.37	4218.26	4218.16	4218.04	4217.93	4217.81
CL BEAM 7	4219.52	4219.46	4219.39	4219.33	4219.26	4219.19	4219.11	4219.04	4218.96	4218.87	4218.79	4218.70	4218.62	4218.52	4218.43	4218.33	4218.22	4218.11	4218.00	4217.89	4217.77
RT CST JT	4219.50	4219.44	4219.37	4219.31	4219.24	4219.17	4219.09	4219.02	4218.94	4218.85	4218.77	4218.68	4218.60	4218.50	4218.41	4218.31	4218.20	4218.09	4217.98	4217.87	4217.75

	€ Pier4	0.1pt.	0.2pt.	0.3pt.	0.4pt.	0.5pt.	0.6pt.	0.7pt.	0.8pt.	0.9pt.	Abut. #2
LT BARRIER	4217.75	4217.69	4217.64	4217.58	4217.52	4217.46	4217.40	4217.34	4217.28	4217.22	4217.16
CL BEAM 1	4217.77	4217.71	4217.66	4217.60	4217.54	4217.48	4217.42	4217.36	4217.30	4217.24	4217.18
CL BEAM 2	4217.81	4217.75	4217.70	4217.64	4217.58	4217.52	4217.46	4217.40	4217.34	4217.28	4217.22
CL BEAM 3	4217.85	4217.79	4217.73	4217.68	4217.62	4217.56	4217.50	4217.44	4217.38	4217.32	4217.26
CONSTR CL	4217.89	4217.83	4217.77	4217.72	4217.66	4217.60	4217.54	4217.48	4217.42	4217.36	4217.30
CL BEAM 5	4217.85	4217.79	4217.73	4217.68	4217.62	4217.56	4217.50	4217.44	4217.38	4217.32	4217.26
CL BEAM 6	4217.81	4217.75	4217.69	4217.64	4217.58	4217.52	4217.46	4217.40	4217.34	4217.28	4217.22
CL BEAM 7	4217.77	4217.71	4217.65	4217.60	4217.54	4217.48	4217.42	4217.36	4217.30	4217.24	4217.18
RT CST JT	4217.75	4217.69	4217.63	4217.58	4217.52	4217.46	4217.40	4217.34	4217.28	4217.22	4217.16

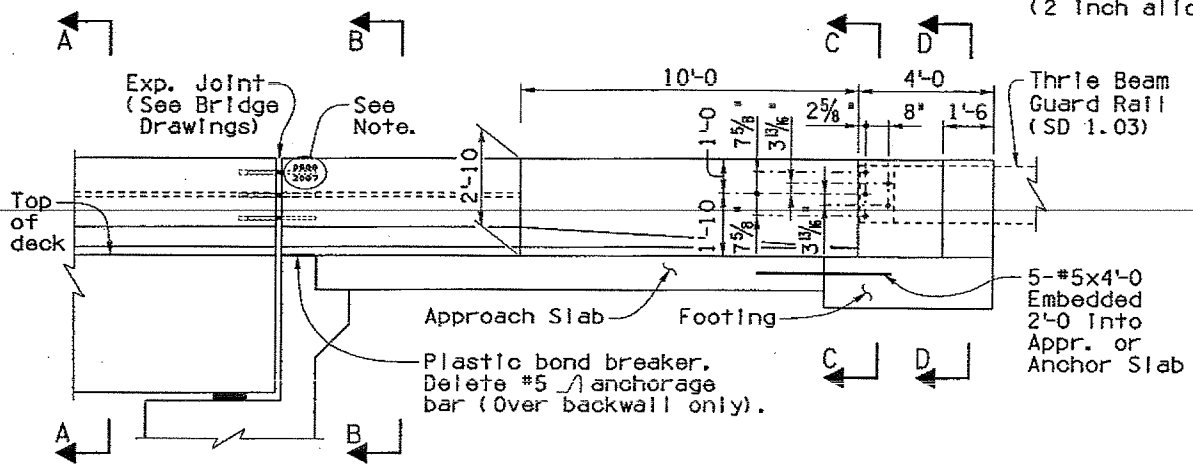
BRIDGE DESIGN SECTION BY		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STA. 50+ MESCAL ROAD TI UP SCREED ELEVATIONS 1 LOCATION MESCAL ROAD TI UP #0517	
DESIGN	N. Viboolmate	03-11		
DESIGN CND	R. Davis	03-11		
DRAWN	S. Nickel	03-11		
DWG CND	R. Davis	03-11		
APPROVED-PROJ. ENGINEER	N. Viboolmate	04-11	TRACS NO. H 8336 OIC 010-E(211)A DWG. S-OL 29 OF 29 52 OF 55	
APPROVED-DESIGN LEADER	N. Viboolmate	04-11		
I-10 ROUTE	297.17	0517		
	MILEPOST	STRUCTURE NO.		



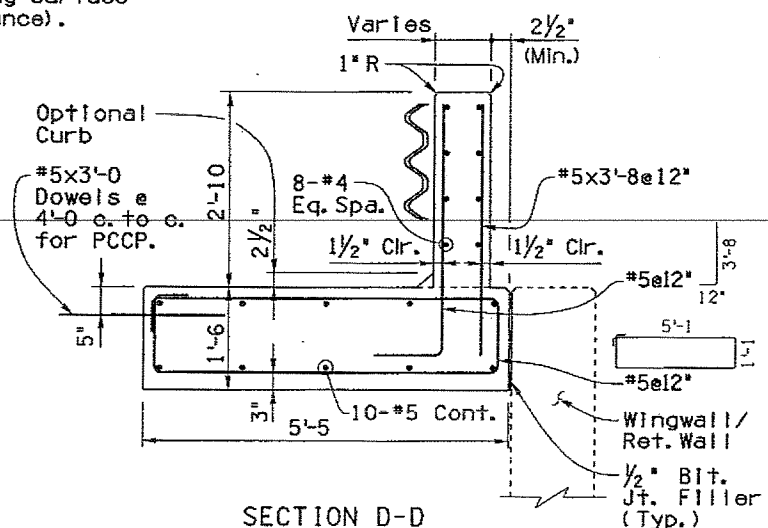
PLAN



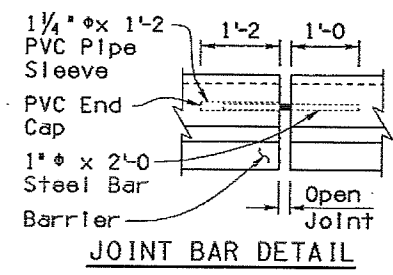
SECTION C-C



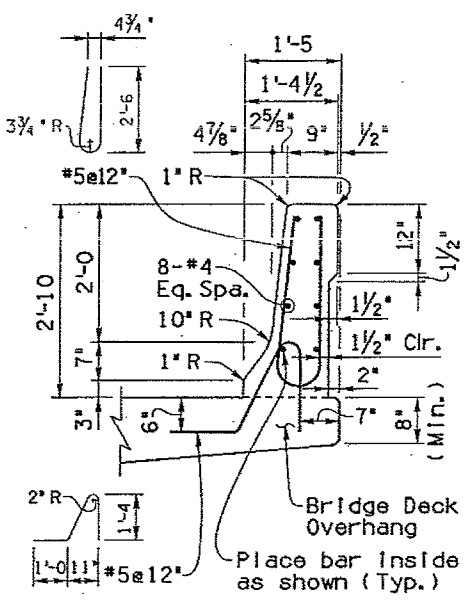
ELEVATION



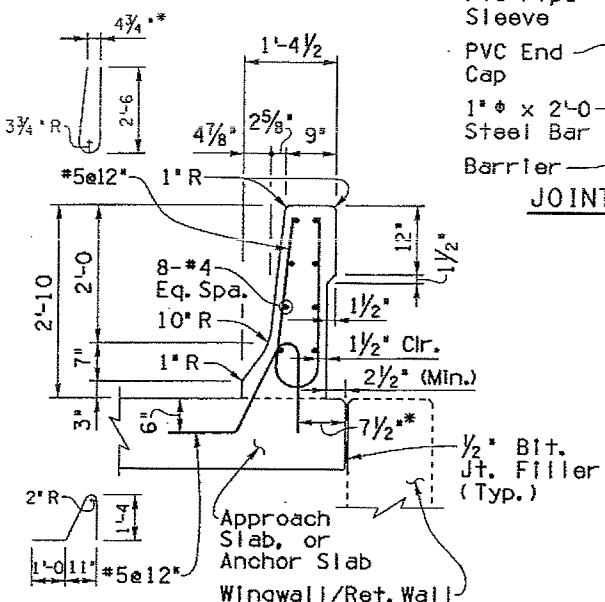
SECTION D-D



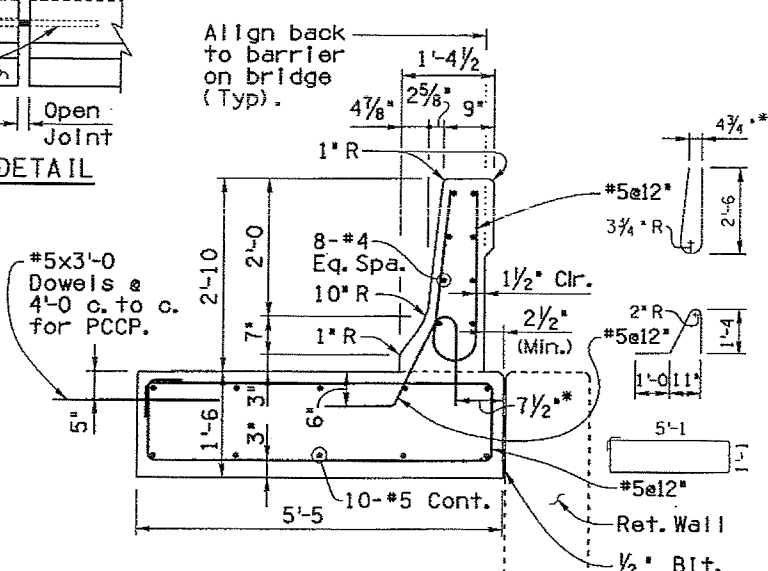
JOINT BAR DETAIL



SECTION A-A



SECTION B-B



SECTION Continuous Barrier With Footing

*Varies at taper length

GENERAL NOTES:

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

Design Specifications - AASHTO LRFD Bridge Design Specifications, 4th Edition 2007.

This barrier has been successfully crash tested and is structurally evaluated as meeting the requirements of NCHRP Report 350 Test Level 4.

All Concrete shall be Class 'S' (f'c = 4000 psi).

Reinforcing steel shall conform to ASTM Specification A615. All reinforcing shall be furnished as Grade 60. All reinforcing shall be epoxy coated at locations above EL. 4000 ft.

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

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

Concrete barriers on continuous superstructures shall have 1/2" bituminous joint filler in open joints over piers. See bridge drawings for details.

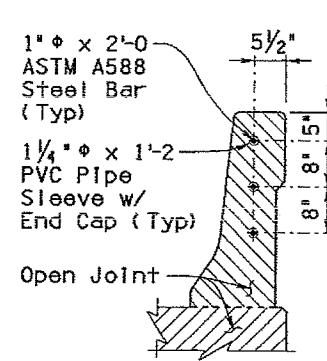
Imbed 1/2", Bridge Number and Year Built, using 1 1/2" w x 2" h number impressions in concrete, located as shown at the approach end of the outside lane.

Anchorage bars are included in the pay item for barrier (Item No. 6011130).

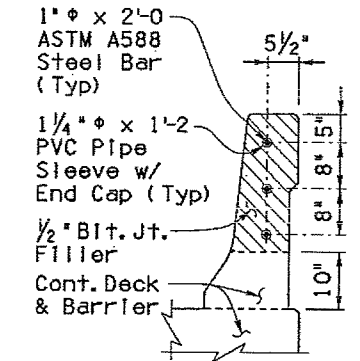
Omit bridge barrier transition when concrete barrier is continuous beyond bridge.

Dimensions shall not be scaled from drawings.

Item No. 6011130 F-SHAPE BRIDGE CONCRETE BARRIER AND TRANSITION (32") Measure: Linear Foot



OPEN JOINT DETAIL At Expansion Joints

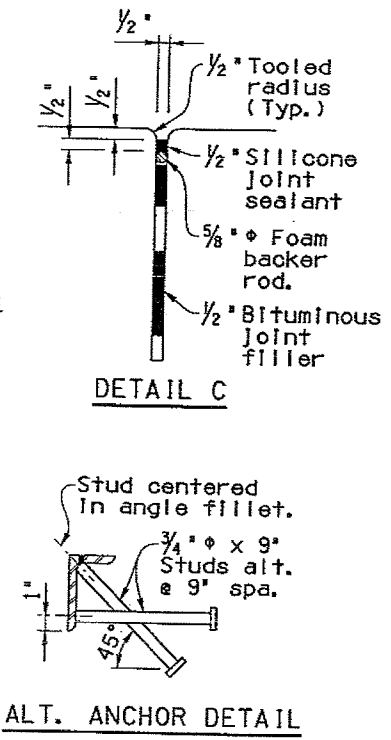
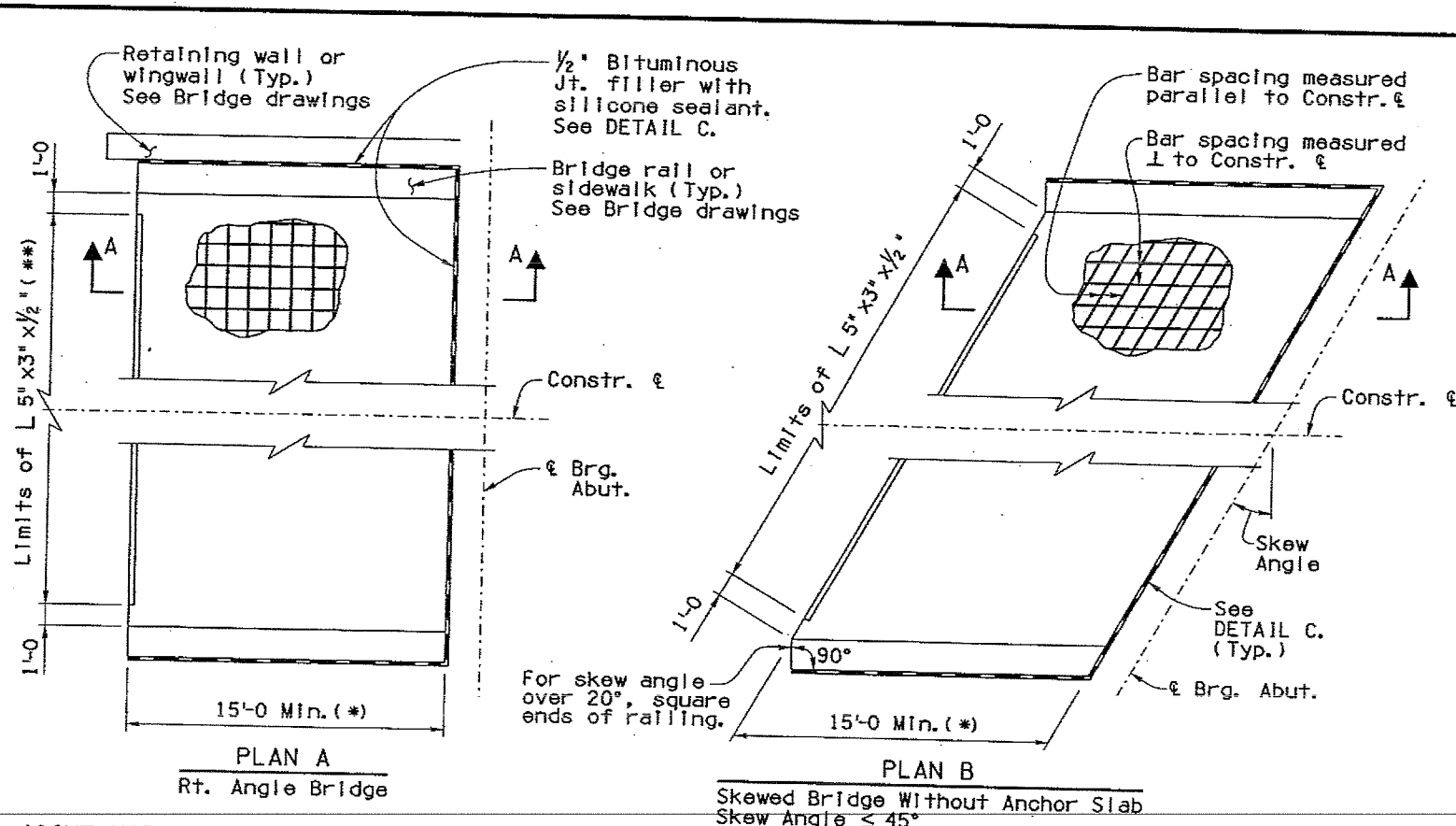


OPEN JOINT DETAIL Over Continuous Piers

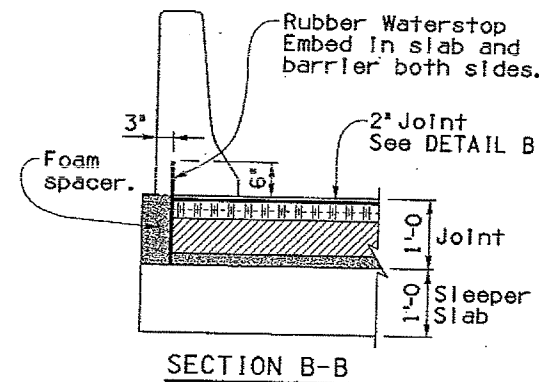
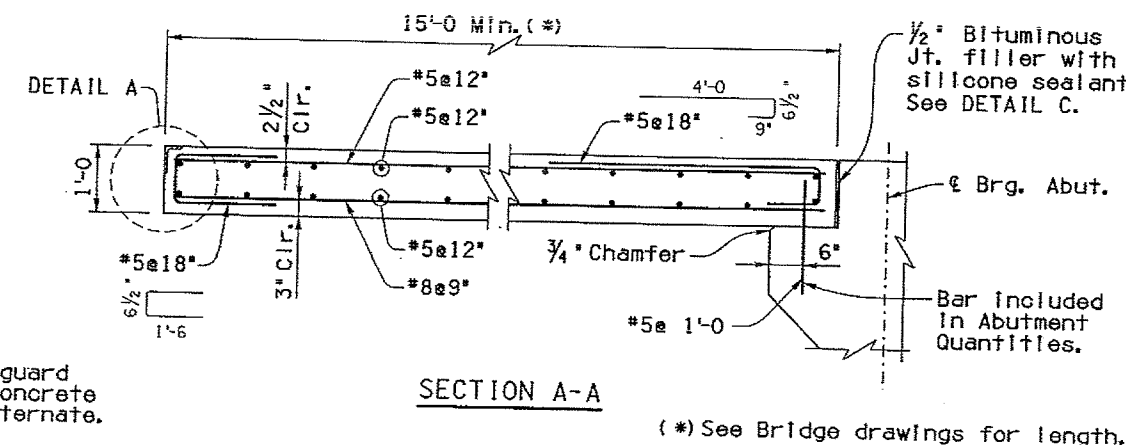
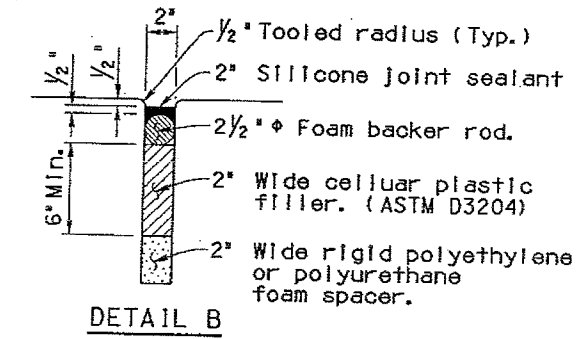
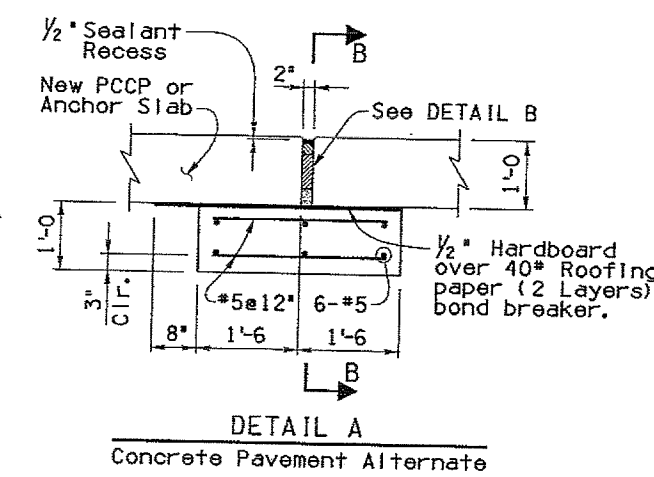
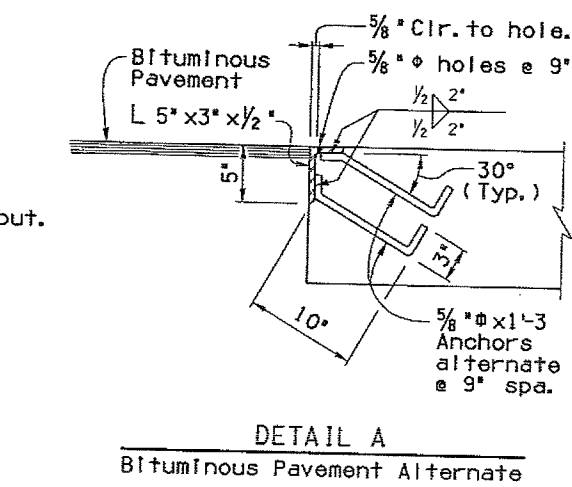
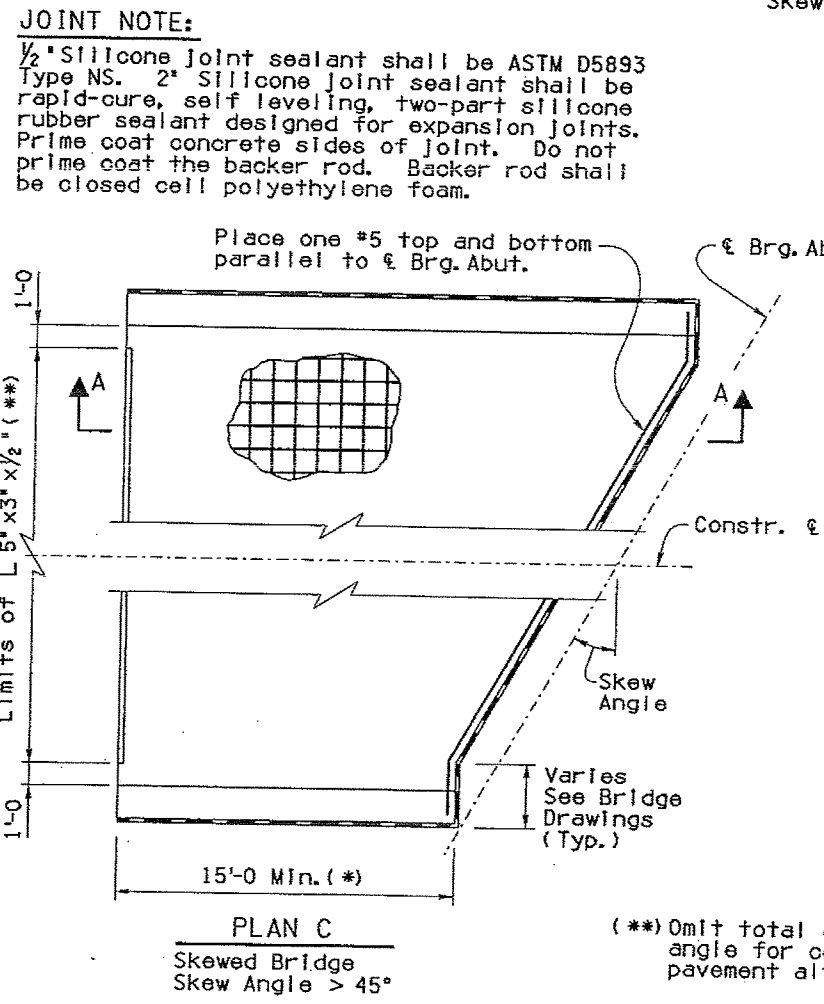
Note to Designer: The information presented in this Standard Detail has been prepared in accordance with recognized engineering principles and is for general use. It should be used only after a professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

NO.	DATE	DESCRIPTION OF REVISIONS
1	Original Issue	
2	General Update	
3	General Update	
4	General Update	
5	General Update	
6	General Update	

DESIGN APPROVED <i>Shafiq H. Hasan</i>		ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STRUCTURE DETAIL	
APPROVED FOR DISTRIBUTION <i>Jason A. Nehme</i>		F-SHAPE BRIDGE CONCRETE BARRIER AND TRANSITION (32") NOMINAL	
ROUTE I-10	PROJECT NO. 010 CH 297 H 8336 01C	FA NO. 010-E(211)A	DRAWING NO. SD 1.01
LOCATION MESCAL ROAD TI UP #0517			SHEET NO. 59 OF 55



GENERAL NOTES:
 Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition.
 Design Specifications - AASHTO LRFD Bridge Design Specifications, 4th Edition 2007.
 All Concrete shall be Class "S" (f'c = 4000 psi).
 Reinforcing steel shall conform to ASTM Specification A615. All reinforcing shall be furnished as Grade 60. All reinforcing shall be epoxy coated at locations above EL.4000 ft.
 All bends and hooks shall meet the requirements of AASHTO Article 5.10. All bend dimensions for reinforcing steel shall be out-to-out of bars. All placement dimensions for reinforcing steel shall be to center of bars unless noted otherwise.
 All reinforcing steel shall have 2 inch clear cover unless noted otherwise.
 Structural steel shall conform to ASTM specification A588 Grade 50 or A709 Grade 50W.
 All welding shall conform to the requirements of the American Welding Society, ANSI/AASHTO/AWS D1.5 Bridge Welding Code, latest Edition.
 Dimensions shall not be scaled from drawings.
 Item No. 6011371 APPROACH SLAB
 Measure: Square Foot



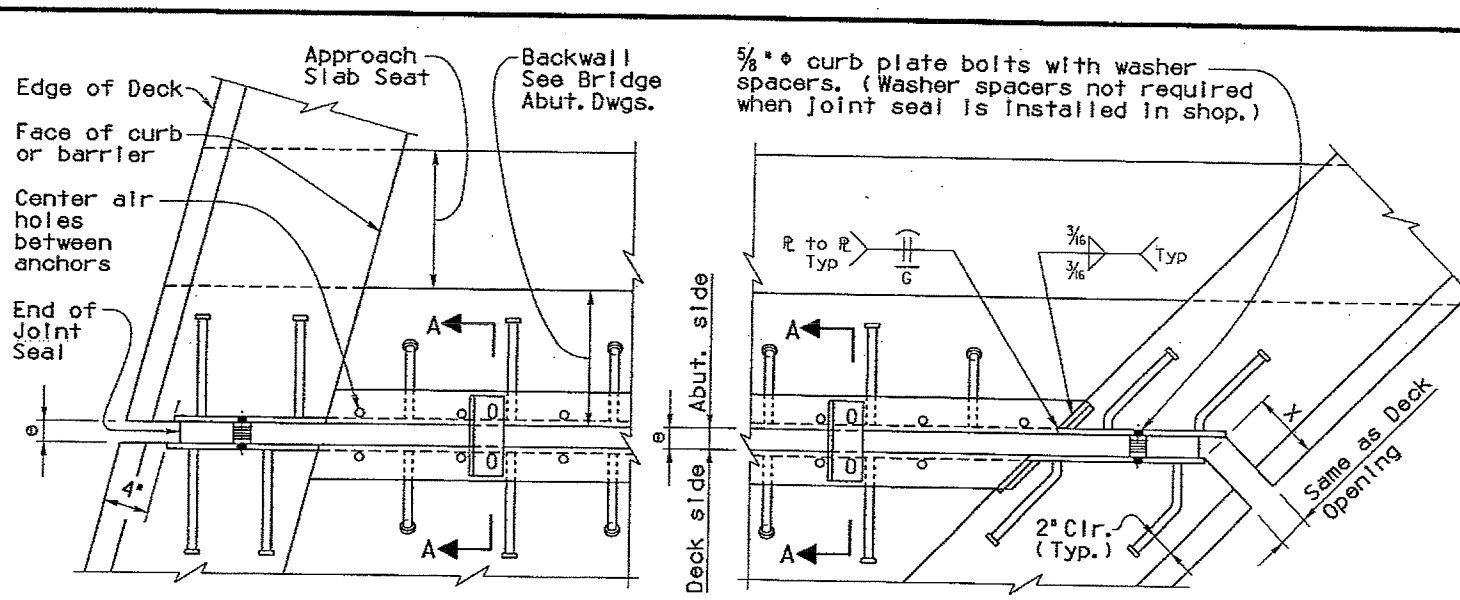
(**) Omit total guard angle for concrete pavement alternate.

(* See Bridge drawings for length.

Note to Designer:
 The information presented in this Standard Detail has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without the professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

NO.	DESCRIPTION OF REVISIONS	DATE	MADE BY	CHECKED BY
1	Original Issue	11-00	J.P.P.	S.A.M.
2	General Update	12-07		
3				
4				

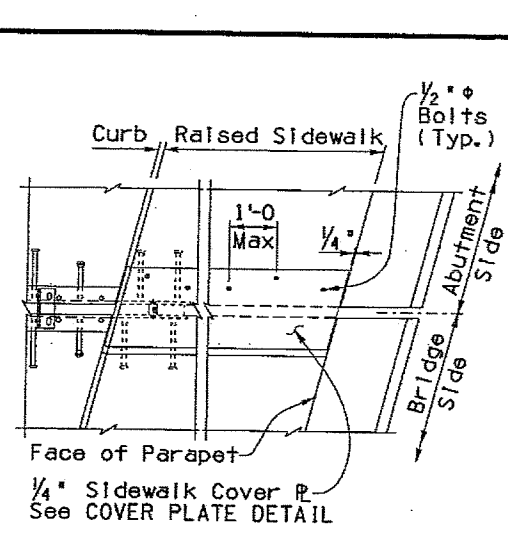
DESIGN APPROVED <i>Shafiq H. Hasan</i>		ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STRUCTURE DETAIL	
APPROVED FOR DISTRIBUTION <i>Teon A. Nehme</i>		APPROACH SLAB DETAILS	
ROUTE 1-10	PROJECT NO. 010 CH 297 H 8336 OIC	FA NO. 010-E(21)IA	DRAWING NO. SD 2.01
LOCATION MESCAL ROAD TI UP *0517			SHEET NO. 24 OF 55



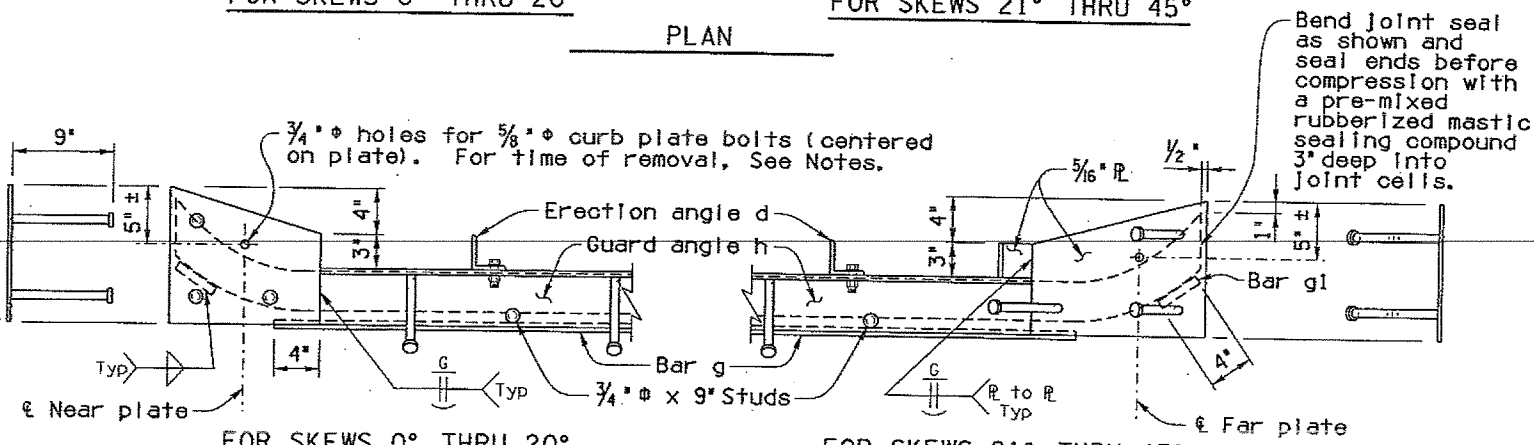
FOR SKEWS 0° THRU 20°

FOR SKEWS 21° THRU 45°

PLAN



PLAN AT SIDEWALK

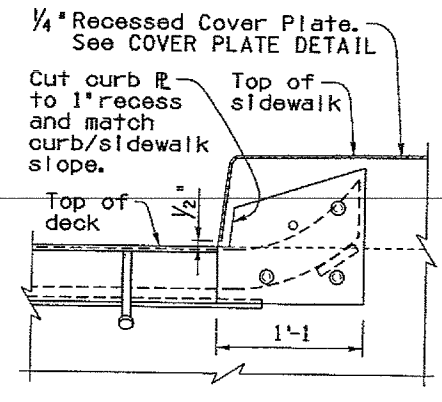


FOR SKEWS 0° THRU 20°

FOR SKEWS 21° THRU 45°

ELEVATION

(Near angle shown, far angle similar)



ELEVATION AT SIDEWALK

GENERAL NOTES:

- Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition.
- Design Specifications - AASHTO LRFD Bridge Design Specifications, 4th Edition 2007.
- Structural steel shall conform to ASTM A588 Grade 50 or A709 Grade 50W. Studs shall conform to ASTM A108 Grades 1015, 1018 or 1020.
- Cellular Joint seal shall meet the requirements of ADOT Std. Spec. 1011-5.
- Sidewalk cover plate shall be galvanized A36 steel with non-slip (deformed) surface.
- All welding shall conform to the requirements of the American Welding Society, ANSI/AASHTO/AWS D1.5 Bridge Welding Code, latest Edition.
- Guard angles and cellular seal shall be one piece, without splices, for lengths 60 feet or less. For lengths over 60 feet or phase construction, guard angles and cellular seal may be two pieces butted together at crown or another location away from drainage.

Prior to installation of the seal and lubricant adhesive, steel contact surfaces with the seal shall be cleaned and prepared in accordance with the seal mfg. requirements.

Joint opening e shall be adjusted in the field for any variation of temperature above or below the mean temperature. See bridge drawings for mean temperature and temperature correction chart.

Erection angles and curb plate bolts shall be removed immediately after deck joint is fully encased in concrete (except curb or barrier concrete), and such concrete has attained its initial set (2 hours ±).

Holes for curb plate bolts shall be plugged before placing curb/barrier concrete.

Dimensions shall not be scaled from drawings.

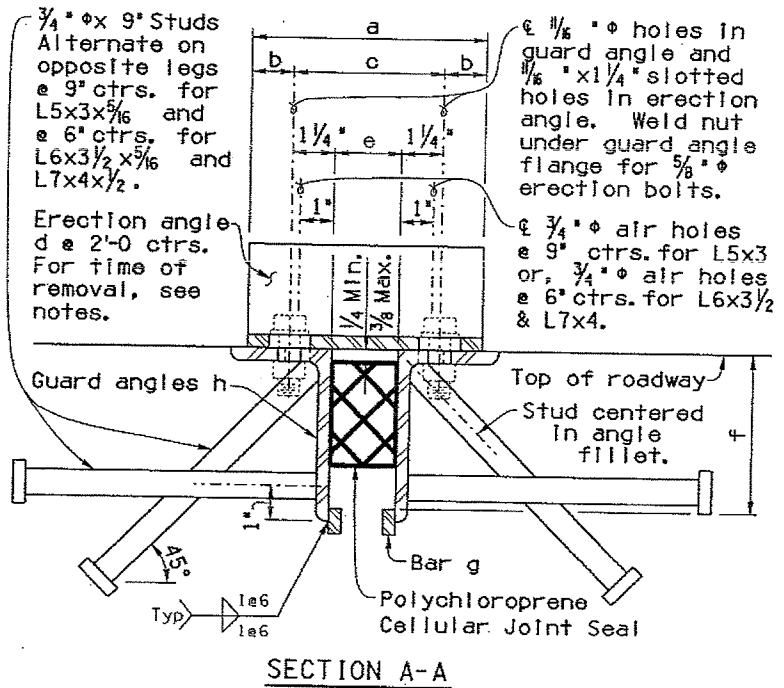
Note to Designer: The information presented in this Standard Detail has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without the professional examination and verification of the suitability and applicability by a licensed professional engineer. Comments within the inner border line shall not be altered.

NO.	DATE	DESCRIPTION OF REVISIONS
1	9-01	Original Issue
2	8-02	Drawing Number Change
3	8-09	General Update
4		

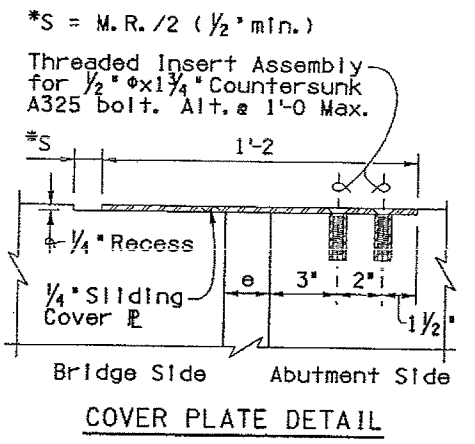
Polychloroprene Cellular Joint Seal (Nominal Dimensions)				
	2 x 2	3 x 3	4 x 4	5 x 5
a	6 1/2	7	7 1/2	8
b	1 3/8	1 5/8	1 1/4	1 1/4
c	3 3/4	4 3/8	5	5 1/2
d	L 2x2x1/4	L 3x3x3/8	L 3 1/2 x 3 1/2 x 3/8	L 4x4x3/8
e max	1.625	2.500	3.375	4.250
e min	0.875	1.250	1.625	1.750
f	3 5/8	4 5/8	5 5/8	6 5/8
g or g1	1/4 x 3/4 bar	3/8 x 3/4 bar	1/2 x 3/4 bar	5/8 x 3/4 bar
h	L 5x3x3/8	L 5x3x3/8	L 6x3 1/2 x 3/8	L 7x4x1/2
M.R.	3/4	1 1/4	1 3/4	2 1/2

M.R. = Movement rating. The difference between the smallest and the largest width of seal in place.

Skew Angle	21°-33°	34°-36°	37°-40°	41°-43°	44°-45°
Dimension X	4"	4 1/2"	5"	5 1/2"	6"



SECTION A-A



COVER PLATE DETAIL

Item No.	Deck Joint Assembly	Measure
6011346	2x2 Compression Seal	LF
6011347	3x3 Compression Seal	LF
6011348	4x4 Compression Seal	LF
6011349	5x5 Compression Seal	LF

DESIGN APPROVED <i>Shafiq U. Hasan</i>	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STRUCTURE DETAIL
APPROVED FOR DISTRIBUTION <i>Tean A. Nehme</i>	DECK JOINT ASSEMBLY COMPRESSION SEAL
ROUTE PROJECT NO. I-10 O10 CH 297 H 8336 OIC	FA NO. DRAWING NO. O10-E(21)DA SD 3.01
LOCATION MESCAL ROAD TI UP #0517	SHEET NO. 59 OF 59