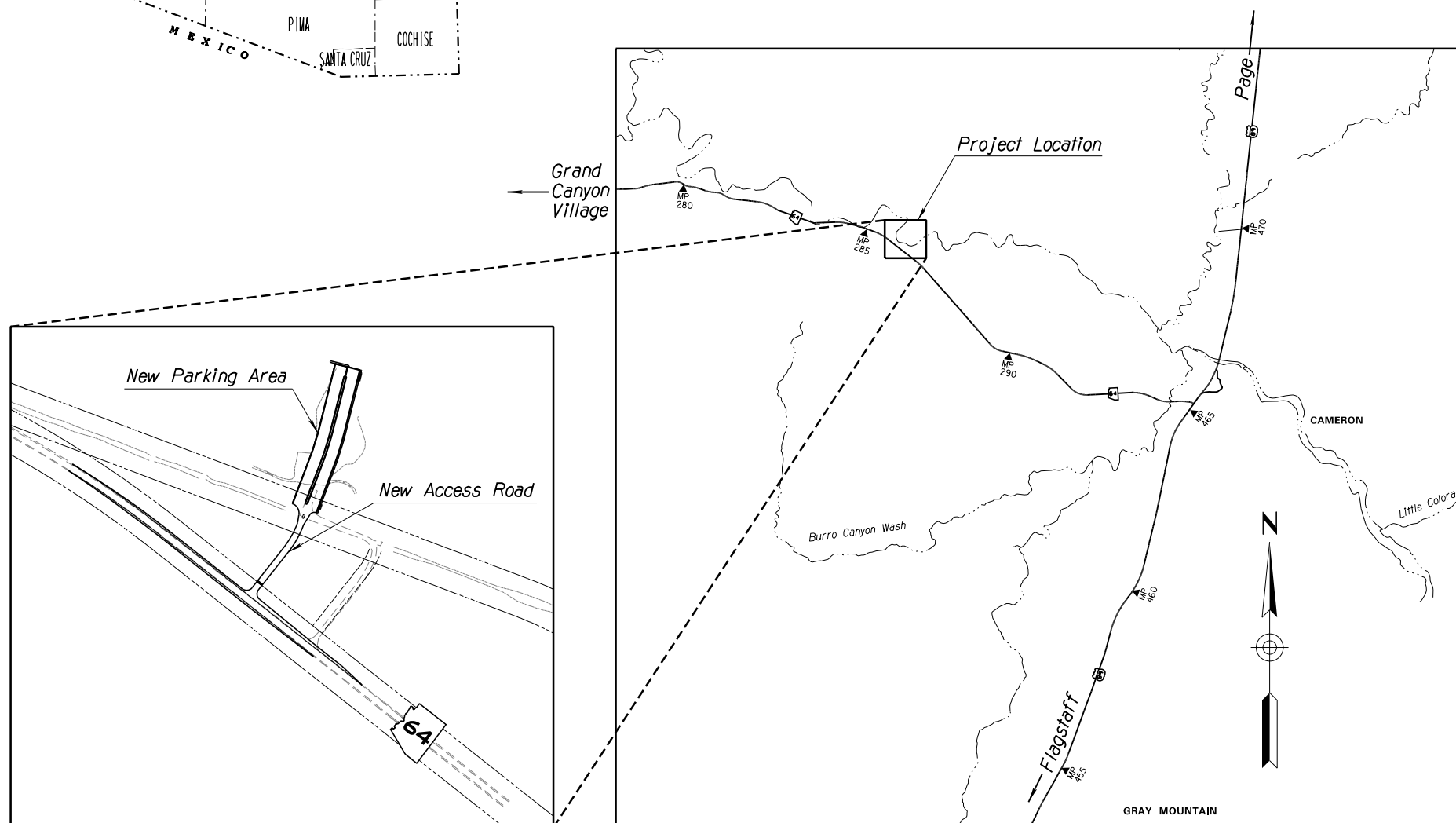


NAVAJO DIVISION OF TRANSPORTATION  
DEPARTMENT OF ROADS  
NAVAJO PARKS & RECREATION DEPARTMENT

PLANS FOR PROJECT  
LITTLE COLORADO RIVER TRIBAL PARK  
ACCESS ROAD RELOCATION  
COCONINO COUNTY, ARIZONA

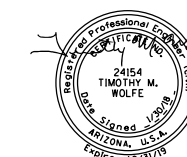


VICINITY MAP  
NTS

LOCATION MAP  
NTS

DRAWING INDEX

SHEET NO.	DWG. NO.	SHEET DESCRIPTION
1	-	Cover Sheet
1A, 1B1, 1B2, 1D		ADOT Standard Drawings
2	G-1.01	Design Data Sheet
3	G-1.02	Typical Sections and Pavement Structural Sections
4	G-1.03	New Pipe and RCBC Summary Sheet
5-6	G-1.04 - G-1.05	Detail Sheets
7	C-1.01	Survey Control Sheet
8	C-1.02	Geometric Plan Sheet
9-12	C-2.01 - C-2.04	Roadway Plan and Profile Sheets
13-18	TC-1.01 - TC-4.02	Traffic Control Sheets
19	T-2.01	Pavement Marking & Signing Notes
20-21	T-2.02 - T-2.03	Signing & Marking Sheets
22	T-3.01	Sign Summary Sheet
23-30	EC-1.01 - EC-1.08	Erosion Control Sheets



LITTLE COLORADO RIVER TRIBAL PARK  
STATE ROUTE 64  
DIBBLE PROJECT No. 101411.09

Dibble  
Engineering®

7878 North 16th Street  
Suite 300  
Phoenix, AZ 85020  
P 602.957.1155

1/30/2018

AS BUILT DATE 1 of 30

ADOT STANDARD DRAWINGS  
C STANDARDS

ISSUE OR REVISION DATE	STANDARD NO.	SUBJECT  CONSTRUCTION
5/12	C-01.10 SH 1	SYMBOL LEGEND
5/12	C-01.10 SH 2	SYMBOL LEGEND
5/12	C-01.10 SH 3	SYMBOL LEGEND
5/12	C-01.10 SH 4	SYMBOL LEGEND
5/12	C-01.30 SH 1	GENERAL ABBREVIATIONS
5/12	C-01.30 SH 2	GENERAL ABBREVIATIONS
5/12	C-01.30 SH 3	GENERAL ABBREVIATIONS
5/12	C-02.10	SLOPES, RURAL DIVIDED HIGHWAYS
5/12	C-02.20	SLOPES, RURAL UNDIVIDED AND FRINGE-URBAN HIGHWAYS
5/12	C-02.30	SLOPES, MISCELLANEOUS ROADWAYS
5/12	C-03.10 SH 1	DITCHES, CHANNELS, DIKES AND BERMS, DITCHES AND CHANNELS
5/12	C-03.10 SH 2	DITCHES, CHANNELS, DIKES AND BERMS, DIKES
5/12	C-03.10 SH 3	DITCHES, CHANNELS, DIKES AND BERMS, DITCH DIKE
5/12	C-03.10 SH 4	DITCHES, CHANNELS, DIKES AND BERMS, PIPE BERMS
5/12	C-03.10 SH 5	DITCHES, CHANNELS, DIKES AND BERMS, HEADWALL BERMS
5/12	C-04.10 SH 1	SPILLWAY, EMBANKMENT SINGLE INLET
5/12	C-04.10 SH 2	SPILLWAY, EMBANKMENT DOUBLE INLET
5/12	C-04.20 SH 1	DOWNDRAIN, EMBANKMENT SINGLE INLET
5/12	C-04.20 SH 2	DOWNDRAIN, EMBANKMENT DOUBLE INLET
5/12	C-04.30	SPILLWAY LENGTH TABLE
5/12	C-04.40	DOWNDRAIN LENGTH TABLE
5/12	C-04.50	DOWNDRAIN ENERGY DISSIPATOR
5/12	C-05.10	CURB & GUTTER, CURB, GUTTER
5/12	C-05.12 SH 1	CURB & GUTTER TRANSITIONS
5/12	C-05.12 SH 2	CURB & GUTTER TRANSITIONS
5/12	C-05.12 SH 3	CURB AND GUTTER TRANSITIONS
5/12	C-05.20 SH 1	CONCRETE DRIVEWAYS & SIDEWALKS, DRIVEWAYS
5/12	C-05.20 SH 2	CONCRETE DRIVEWAYS & SIDEWALKS, SIDEWALKS
5/12	C-05.30 SH 1	SIDEWALK RAMP, TYPE A
5/12	C-05.30 SH 2	SIDEWALK RAMP, TYPE B
5/12	C-05.30 SH 3	SIDEWALK RAMP, TYPE C
5/12	C-05.30 SH 4	SIDEWALK RAMP, TYPE D
5/12	C-05.30 SH 5	SIDEWALK RAMP, TYPE E
5/12	C-05.30 SH 6	SIDEWALK RAMP, TYPE F
5/12	C-05.30 SH 7	SIDEWALK RAMP, DETECTABLE WARNING STRIP
5/12	C-05.40	MEDIAN PAVING AND NOSE TAPER
5/12	C-05.50	CONCRETE BUS BAY
5/12	C-06.10 SH 1	DRIVEWAY & TURNOUT LAYOUTS
5/12	C-06.10 SH 2	DRIVEWAY & TURNOUT LAYOUTS
5/12	C-07.01 SH 1	PCCP JOINTS
5/12	C-07.01 SH 2	PCCP JOINTS
5/12	C-07.02	LOAD TRANSFER DOWEL ASSEMBLY
5/12	C-07.03 SH 1	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 2	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 3	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 4	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 5	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 6	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 7	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 8	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.04 SH 1	PCCP JOINT LOCATIONS, PARALLEL TYPE ENTRANCE RAMP WITH AUXILIARY LANE
5/12	C-07.04 SH 2	PCCP JOINT LOCATIONS, PARALLEL TYPE EXIT RAMP WITH AUXILIARY LANE
5/12	C-07.04 SH 3	PCCP JOINT LOCATIONS, TAPER TYPE ENTRANCE RAMP
5/12	C-07.04 SH 4	PCCP JOINT LOCATIONS, TAPER TYPE EXIT RAMP
5/12	C-07.04 SH 5	PCCP JOINT LOCATIONS, CROSSROAD AND RAMP TERMINI
5/12	C-07.06	TRENCH BACKFILL AND PAVEMENT REPLACEMENT
5/12	C-08.20	PAVED GORE AREA
5/12	C-10.00	GUARDRAIL MEASUREMENT LIMITS
5/12	C-10.01	GUARDRAIL INSTALLATION, TYPE A AND REFLECTOR TAB
5/12	C-10.02	GUARDRAIL INSTALLATION, TYPE B AND REFLECTOR TAB
5/12	C-10.03	W-BEAM GUARDRAIL, G4(1W) AND G4(2W), BLOCKED-OUT TIMBER POST
5/12	C-10.04	W-BEAM GUARDRAIL, G4(1S), BLOCKED-OUT STEEL POST
5/12	C-10.05 SH 1	W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER
5/12	C-10.05 SH 2	W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER
5/12	C-10.06 SH 1	W-BEAM GUARDRAIL, NESTED, TYPES 1 AND 2
5/12	C-10.06 SH 2	W-BEAM GUARDRAIL, NESTED, TYPE 3
5/12	C-10.07 SH 1	W-BEAM GUARDRAIL, BOLTED ANCHOR
5/12	C-10.07 SH 2	W-BEAM GUARDRAIL, BOLTED ANCHOR
5/12	C-10.08	W-BEAM GUARDRAIL, END ANCHOR
5/12	C-10.20	THRIE-BEAM GUARDRAIL, G9, BLOCKED-OUT STEEL POST
5/12	C-10.30 SH 1	GUARDRAIL TRANSITION, THRIE BEAM TO CONCRETE HALF BARRIER, 32" TYPE 'F'
5/12	C-10.30 SH 2	GUARDRAIL TRANSITION, THRIE BEAM TO CONCRETE HALF BARRIER, 32" TYPE 'F'
5/12	C-10.40	CONCRETE MEDIAN BARRIER, 32" TYPE 'F', CAST-IN-PLACE
5/12	C-10.41	CONCRETE MEDIAN BARRIER, 42" TYPE 'F', CAST-IN-PLACE
5/12	C-10.42 SH 1	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/12	C-10.42 SH 2	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/12	C-10.42 SH 3	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/12	C-10.50 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F', CAST-IN-PLACE
5/12	C-10.50 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F', PRECAST
5/12	C-10.51	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH SIDEWALK
5/12	C-10.52	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH GUTTER
5/12	C-10.53	CONCRETE HALF BARRIER, 42" TYPE 'F' WITH GUTTER
5/12	C-10.54 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, CAST-IN-PLACE
5/12	C-10.54 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, PRECAST
5/12	C-10.54 SH 3	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, LAYOUT
5/12	C-10.55 SH 1	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, CAST-IN-PLACE
5/12	C-10.55 SH 2	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, PRECAST
5/12	C-10.55 SH 3	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, LAYOUT
5/12	C-10.70 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/12	C-10.70 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/12	C-10.70 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS

ISSUE OR REVISION DATE	STANDARD NO.	SUBJECT  CONSTRUCTION
5/12	C-10.71 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
5/12	C-10.71 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
5/12	C-10.72 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/12	C-10.72 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/12	C-10.72 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/12	C-10.73 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
5/12	C-10.73 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
5/12	C-10.74	CONCRETE HALF-BARRIER TRANSITION, 42" TO 32" TYPE 'F'
5/12	C-10.75 SH 1	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F', TANGENT DEPARTURE TYPE 1
5/12	C-10.75 SH 2	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F', TANGENT DEPARTURE TYPE 2
5/12	C-10.76	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' AT RADIUS, 32" TO 0"
5/12	C-10.77	CONCRETE HALF-BARRIER TRANSITION, END TERMINAL CURB AND GUTTER
5/12	C-11.10 SH 1	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 2	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 3	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 4	ROADWAY CATTLE GUARD
5/12	C-11.20	CATTLE GUARD, DRAINAGE
5/12	C-12.10 SH 1	FENCE, WOVEN WIRE
5/12	C-12.10 SH 2	FENCE, BARBED WIRE
5/12	C-12.10 SH 3	FENCE, TYPES 1 AND 2 GATES, FLOOD GATE
5/12	C-12.10 SH 4	FENCE, FLOOD GATE INSTALLATION
5/12	C-12.10 SH 5	FENCE, MISCELLANEOUS DETAILS
5/12	C-12.20 SH 1	FENCE, CHAIN LINK, TYPE 1
5/12	C-12.20 SH 2	FENCE, CHAIN LINK, TYPE 2
5/12	C-12.20 SH 3	FENCE, CHAIN LINK, GATES
5/12	C-12.30 SH 1	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-12.30 SH 2	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-12.30 SH 3	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-13.10 SH 1	PIPE CULVERT INSTALLATION
5/12	C-13.10 SH 2	PIPE CULVERT INSTALLATION
5/12	C-13.15	TYPICAL PIPE INSTALLATION
5/12	C-13.20	PIPE, REINFORCED CONCRETE END SECTION
5/12	C-13.25	PIPE, CORRUGATED METAL END SECTION
5/12	C-13.30	PIPE AND PIPE ARCH, CORRUGATED METAL, CONCRETE INVERT PAVING
5/12	C-13.55	PIPE, CATTLE-VEHICLE PASS, MITERED END TREATMENT
5/12	C-13.60	SLOTTED DRAIN DETAILS
5/12	C-13.65	SLOTTED DRAIN INSTALLATION DETAILS
5/12	C-13.70	STORM DRAIN CONNECTION DETAILS
5/12	C-13.75	STORM DRAIN OUTLET BARRIER GATE
5/12	C-13.76	STORM DRAIN OUTLET AND STORM DRAIN PLUG
5/12	C-13.80	PIPE COLLAR DETAILS
5/12	C-15.10	CATCH BASIN, TYPE 1
5/12	C-15.20 SH 1	CATCH BASIN, TYPE 3
5/12	C-15.20 SH 2	CATCH BASIN, TYPE 3
5/12	C-15.20 SH 3	CATCH BASIN, ACCESS FRAME AND COVER DETAILS
5/12	C-15.30	CATCH BASIN, TYPE 4
5/12	C-15.40 SH 1	CATCH BASIN, TYPE 5
5/12	C-15.40 SH 2	CATCH BASIN, TYPE 5
5/12	C-15.50	CATCH BASIN, FRAME AND GRATE
5/12	C-15.70 SH 1	CATCH BASIN, MISCELLANEOUS DETAILS
5/12	C-15.70 SH 2	CATCH BASIN, MISCELLANEOUS DETAILS
5/12	C-15.75	CATCH BASIN, DROP INLET
5/12	C-15.80	CATCH BASIN, FLUSH
5/12	C-15.81	CATCH BASIN, SIDE SLOPE
5/12	C-15.90	CATCH BASIN, MEDIAN DIKE, PRECAST
5/12	C-15.91 SH 1	FREEWAY CATCH BASIN DETAILS
5/12	C-15.91 SH 2	FREEWAY CATCH BASIN DETAILS
5/12	C-15.92 SH 1	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/12	C-15.92 SH 2	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/12	C-16.40	IRRIGATION SLEEVES
5/12	C-17.10	RAIL BANK PROTECTION FOR DRAINAGEWAYS, TYPES 1, 2 & 3
5/12	C-17.15	RAIL BANK PROTECTION AT ABUTMENTS, TYPES 4, 5 & 6
5/12	C-17.20	BANK PROTECTION FOR DRAINAGEWAYS, TYPES 7, 8 & 9
5/12	C-18.10 SH 1	MANHOLE, RISER DETAILS
5/12	C-18.10 SH 2	MANHOLE, BASE DETAILS, NORMAL INSTALLATION
5/12	C-18.10 SH 3	MANHOLE, FRAME AND COVER DETAILS
5/12	C-19.10 SH 1	FORD, CONCRETE WALLS
5/12	C-19.10 SH 2	FORD, TYPES 1 AND 2
5/12	C-21.10	SURVEY MONUMENT FRAME AND COVER
5/12	C-21.20	SURVEY MARKER

ADOT STANDARD DRAWINGS			
REVISION DATES and STANDARD NO.'s REVIEW			
NAME		DATE	
CONSTRUCTION Standards			
PROJECT NO.			
LITTLE COLORADO RIVER TRIBAL PARK		1A OF 30	
RECORD DRAWING	FEDERAL AID NO.	REC. DWG. DATE	
DATA			OF

REV.: 05/12

ADOT STANDARD DRAWINGS  
TRAFFIC SIGNING & MARKING STANDARDS  
(SHEET 1 OF 2)  
EFFECTIVE MAY 2015

SUBJECT:

REVISION	STANDARD	SIGNING & MARKING DETAILS
6/14	M-1	CURB MARKINGS FOR RAISED MEDIAN AND ISLANDS
6/14	M-2 SHT 1	INTERSECTION STRIPING
5/15	M-2 SHT 2	INTERSECTION STRIPING (TWO-LANE RURAL)
6/14	M-2 SHT 3	CENTERLINE & REVERSE CURVE DETAILS
6/14	M-3	STRIPING AND DELINEATION FOR FREEWAY TERMINALS
6/14	M-4	PASSING LANE STRIPING DETAILS
6/14	M-5	RAILROAD PAVEMENT MARKINGS
6/14	M-6	WORD MARKINGS
6/14	M-7	PAVEMENT LETTERS
6/14	M-8	PAVEMENT LETTERS
6/14	M-9	PAVEMENT NUMBERS
6/14	M-10 SHT 1	PAVEMENT MARKING SYMBOLS
6/14	M-10 SHT 2	PAVEMENT MARKING SYMBOLS
6/14	M-11	TURN LANE PAVEMENT MARKINGS
6/14	M-12	WRONG-WAY ARROWS
6/14	M-13	PREFERENTIAL LANE PAVEMENT MARKINGS
6/14	M-14	STRIPING AND DELINEATION FOR TRUCK ESCAPE RAMPS
6/14	M-15 SHT 1	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - TAPERED ACCELERATION LANE
6/14	M-15 SHT 2	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE
6/14	M-15 SHT 3	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE WITH HOV BYPASS
6/14	M-15 SHT 4	PAVEMENT MARKING FOR FREEWAY PARALLEL - ACCELERATION LANE
6/14	M-16 SHT 1	PAVEMENT MARKING FOR FREEWAY EXIT RAMPS - TAPERED DECELERATION LANE
6/14	M-16 SHT 2	PAVEMENT MARKING FOR FREEWAY EXIT RAMP - PARALLEL DECELERATION LANE
5/15	M-17	FREEWAY LANE DROP PAVEMENT MARKINGS
6/14	M-18	RECESSED PAVEMENT MARKER DETAILS
6/14	M-19 SHT 1	RAISED PAVEMENT MARKER PLAN LEGEND
6/14	M-19 SHT 2	NON-REFLECTIVE RAISED PAVEMENT MARKER DETAILS
6/14	M-19 SHT 3	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS
6/14	M-19 SHT 4	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS
5/15	M-19 SHT 5	PAVEMENT MARKING DETAILS FOR UNDIVIDED HIGHWAYS
6/14	M-19 SHT 6	RETROREFLECTIVE RAISED PAVEMENT MARKERS (RPM) FOR UNDIVIDED HIGHWAYS
6/14	M-19 SHT 7	FREEWAY AND DIVIDED HIGHWAY EDGE LINE AND LANE STRIPING
5/15	M-19 SHT 8	LANE DROP MARKING AND RAMP OR INTERSECTION GUIDE STRIPING
6/14	M-19 SHT 9	PAVEMENT MARKING CROSS-SECTION DETAILS FOR HIGHWAYS AND FREEWAYS

SUBJECT:

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

ADOT STANDARD DRAWINGS			
REVISION DATES and STANDARD NO.'s REVIEW			
SIGNING & MARKING STANDARDS		NAME	DATE
PROJECT NO.		18-1 OF 30	
LITTLE COLORADO RIVER TRIBAL PARK			
RECORD DRAWING DATA	FEDERAL AID NO.	REC. DWG. DATE	OF

ADOT STANDARD DRAWINGS  
TRAFFIC SIGNING & MARKING STANDARDS  
(SHEET 2 OF 2)  
EFFECTIVE MAY 2015

SUBJECT:

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

SUBJECT:

REVISION	STANDARD	SIGNING & MARKING DETAILS
6/14	S-12 SHT 1	TYPE A, B, AND DOWN ARROWS
6/14	S-12 SHT 2	TYPE C AND D ARROWS
6/14	S-12 SHT 3	C2 ARROW DETAIL
6/14	S-13	SIGN IDENTIFICATION DETAILS
6/14	S-14 SHT 1	ROTATING OPEN/CLOSED SIGN
6/14	S-14 SHT 2	ROTATING OPEN/CLOSED SIGN DETAILS
6/14	S-14 SHT 3	ROTATING OPEN/CLOSED SIGN MOUNTING DETAILS
6/14	S-15 SHT 1	FOLDING RECTANGULAR SIGN ASSEMBLY
6/14	S-15 SHT 2	FOLDING RECTANGULAR SIGN OPERATION
6/14	S-15 SHT 3	FOLDING DIAMOND SIGN ASSEMBLY
6/14	S-16 SHT 1	TEMPORARY WOOD POSTS
6/14	S-16 SHT 2	TEMPORARY WOOD POSTS SELECTION CHART
6/14	S-17	END OF ROAD BARRICADE
6/14	C-1	SAND BARREL CRASH CUSHION
6/14	C-2	SAND BARREL CRASH CUSHION TYPICAL INSTALLATION
6/14	C-3 SHT 1	PRECAST CONCRETE BARRIER STRUCTURAL DETAILS
6/14	C-3 SHT 2	PRECAST CONCRETE BARRIER PIN AND LOOP ASSEMBLY
6/14	C-4 SHT 1	MEDIAN CROSSOVER
6/14	C-4 SHT 2	TYPICAL END TREATMENTS FOR DETOURS USING TEMPORARY CONCRETE BARRIER (TCB)
6/14	C-5 SHT 1	APPROACH PLATE AND TRANSITION SECTION FOR TEMPORARY CONCRETE BARRIER
6/14	C-5 SHT 2	APPROACH PLATE AND TRANSITION SECTION FOR TEMPORARY CONCRETE BARRIER

ADOT STANDARD DRAWINGS			
REVISION DATES and STANDARD NO.'s REVIEW			
SIGNING & MARKING STANDARDS		NAME	DATE
PROJECT NO.		18-2 OF 30	
LITTLE COLORADO RIVER TRIBAL PARK			
RECORD DRAWING DATA	FEDERAL AID NO.	REC. DWG. DATE	OF



ADOT STANDARD DRAWINGS

STRUCTURE DETAIL DRAWINGS		
REVISION DATE	SD NUMBER	SUBJECT
RAILINGS		
6/12	SD 1.01	F-SHAPE BRIDGE CONCRETE BARRIER AND TRANSITION (34")
6/12	SD 1.02	F-SHAPE BRIDGE CONCRETE BARRIER AND TRANSITION (44")
6/12	SD 1.03	THRIE BEAM GUARD RAIL TRANSITION SYSTEM
3/09	SD 1.04	COMBINATION PEDESTRIAN-TRAFFIC BRIDGE RAILING
3/09	SD 1.05	PEDESTRIAN FENCE FOR BRIDGE RAILING SD1.04
6/09	SD 1.06 (1 OF 4)	TWO TUBE BRIDGE RAIL
6/09	SD 1.06 (2 OF 4)	TWO TUBE BRIDGE RAIL
6/09	SD 1.06 (3 OF 4)	TWO TUBE BRIDGE RAIL
6/09	SD 1.06 (4 OF 4)	TWO TUBE BRIDGE RAIL
4/10	SD 1.11	BARRIER JUNCTION BOX
APPROACHES		
12/07	SD 2.01	APPROACH SLAB DETAILS
12/07	SD 2.02	TYPE 1 ANCHOR SLAB DETAILS
12/07	SD 2.03	TYPE 2 ANCHOR SLAB DETAILS
9/09	SD 2.04	SLOPE PAVING DETAILS
DECK JOINTS		
6/09	SD 3.01	DECK JOINT ASSEMBLY - COMPRESSION SEAL
12/09	SD 3.02	DECK JOINT ASSEMBLY - STRIP SEAL
12/09	SD 3.03	DECK JOINT ASSEMBLY - RAISED STRIP SEAL
SUBSTRUCTURE		
11/12	SD 5.01	STRUCTURAL EXCAVATION - PAYMENT LIMITS
11/12	SD 5.02	STRUCTURE BACKFILL - PAYMENT LIMITS
DRAINAGE STRUCTURES		
5/15	SD 6.01 (1 OF 5)	RE INFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS
2/12	SD 6.01 (2 OF 5)	RE INFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS
2/12	SD 6.01 (3 OF 5)	RE INFORCED CONCRETE BOX CULVERTS - EXTENSION DETAILS
2/12	SD 6.01 (4 OF 5)	RE INFORCED CONCRETE BOX CULVERTS - STRUCTURAL EXCAVATION & STRUCTURE BACKFILL
5/15	SD 6.01 (5 OF 5)	RE INFORCED CONCRETE BOX CULVERTS - SINGLE BARREL (0'-30' FILLS)
5/15	SD 6.02 (1 OF 2)	RE INFORCED CONCRETE BOX CULVERTS - DOUBLE BARREL (0'-15' FILLS)
5/15	SD 6.02 (2 OF 2)	RE INFORCED CONCRETE BOX CULVERTS - DOUBLE BARREL (15'-30' FILLS)
5/15	SD 6.03 (1 OF 2)	RE INFORCED CONCRETE BOX CULVERTS - TRIPLE BARREL (0'-15' FILLS)
5/15	SD 6.03 (2 OF 2)	RE INFORCED CONCRETE BOX CULVERTS - TRIPLE BARREL (15'-30' FILLS)
5/15	SD 6.04 (1 OF 2)	RE INFORCED CONCRETE BOX CULVERTS - FOUR BARREL (0'-15' FILLS)
5/15	SD 6.04 (2 OF 2)	RE INFORCED CONCRETE BOX CULVERTS - FOUR BARREL (15'-30' FILLS)
5/15	SD 6.05 (1 OF 2)	RE INFORCED CONCRETE BOX CULVERTS - FIVE BARREL (0'-15' FILLS)
5/15	SD 6.05 (2 OF 2)	RE INFORCED CONCRETE BOX CULVERTS - FIVE BARREL (15'-30' FILLS)
5/15	SD 6.06 (1 OF 2)	RE INFORCED CONCRETE BOX CULVERTS - SIX BARREL (0'-15' FILLS)
5/15	SD 6.06 (2 OF 2)	RE INFORCED CONCRETE BOX CULVERTS - SIX BARREL (15'-30' FILLS)
2/12	SD 6.07	RE INFORCED CONCRETE BOX CULVERTS - 16' x 14" EQUIPMENT PASS (0'-20' FILLS)
5/15	SD 6.08 (1 OF 8)	RE INFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 0° to 20° - CULVERT HEIGHT 3' to 7'
2/12	SD 6.08 (2 OF 8)	RE INFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 0° to 20° - CULVERT HEIGHT 8' to 12'
5/15	SD 6.08 (3 OF 8)	RE INFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 0° to 20° - CULVERT HEIGHT 3' to 7'
2/12	SD 6.08 (4 OF 8)	RE INFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 0° to 20° - CULVERT HEIGHT 8' to 12'
5/15	SD 6.08 (5 OF 8)	RE INFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 25° to 45° - CULVERT HEIGHT 3' to 7'
5/15	SD 6.08 (6 OF 8)	RE INFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 25° to 45° - CULVERT HEIGHT 8' to 12'
2/12	SD 6.08 (7 OF 8)	RE INFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 25° to 45° - CULVERT HEIGHT 3' to 7'
2/12	SD 6.08 (8 OF 8)	RE INFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 25° to 45° - CULVERT HEIGHT 8' to 12'
5/15	SD 6.09 (1 OF 3)	RE INFORCED CONCRETE BOX CULVERTS - HEADWALL QUANTITIES - 2 : 1 SLOPE
5/15	SD 6.09 (2 OF 3)	RE INFORCED CONCRETE BOX CULVERTS - HEADWALL QUANTITIES - 4 : 1 SLOPE
5/15	SD 6.09 (3 OF 3)	RE INFORCED CONCRETE BOX CULVERTS - HEADWALL QUANTITIES - 6 : 1 SLOPE
5/15	SD 6.10 (1 OF 2)	RE INFORCED CONCRETE BOX CULVERTS - INLET OR OUTLET - LEVEL WINGS - CULVERT HEIGHT 3' to 7'
2/12	SD 6.10 (2 OF 2)	RE INFORCED CONCRETE BOX CULVERTS - INLET OR OUTLET - LEVEL WINGS - CULVERT HEIGHT 8' to 12'
2/12	SD 6.11 (1 OF 4)	RE INFORCED CONCRETE BOX CULVERTS - OUTLET APRON DETAILS
5/15	SD 6.11 (2 OF 4)	RE INFORCED CONCRETE BOX CULVERTS - OUTLET APRON - DIMENSIONS & QUANTITIES (2 : 1 SLOPE)
5/15	SD 6.11 (3 OF 4)	RE INFORCED CONCRETE BOX CULVERTS - OUTLET APRON - DIMENSIONS & QUANTITIES (4 : 1 SLOPE)
5/15	SD 6.11 (4 OF 4)	RE INFORCED CONCRETE BOX CULVERTS - OUTLET APRON - DIMENSIONS & QUANTITIES (6 : 1 SLOPE)
7/12	SD 6.30 (1 OF 5)	PIPE CULVERT HEADWALLS - MISCELLANEOUS DETAILS
7/12	SD 6.30 (2 OF 5)	PIPE CULVERT HEADWALLS - INLET AND OUTLET - 18" to 42" PIPES
7/12	SD 6.30 (3 OF 5)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET AND OUTLET - 48" to 84" PIPES
7/12	SD 6.30 (4 OF 5)	PIPE CULVERT HEADWALLS - SKEWED INLET AND OUTLET - 48" to 84" PIPES
7/12	SD 6.30 (5 OF 5)	PIPE CULVERT HEADWALLS - MULTI-PIPE - 48" to 84" PIPES
7/12	SD 6.31 (1 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET
7/12	SD 6.31 (2 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET - 2 : 1 SLOPE
7/12	SD 6.31 (3 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET - 4 : 1 SLOPE
7/12	SD 6.31 (4 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET - 6 : 1 SLOPE
7/12	SD 6.31 (5 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET
7/12	SD 6.31 (6 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET - 2 : 1 SLOPE
7/12	SD 6.31 (7 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET - 4 : 1 SLOPE
7/12	SD 6.31 (8 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET - 6 : 1 SLOPE

STRUCTURE DETAIL DRAWINGS		
REVISION DATE	SD NUMBER	SUBJECT
DRAINAGE STRUCTURES (Continued)		
7/12	SD 6.32 (1 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET
7/12	SD 6.32 (2 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET - 2 : 1 SLOPE
7/12	SD 6.32 (3 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET - 4 : 1 SLOPE
7/12	SD 6.32 (4 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET - 6 : 1 SLOPE
7/12	SD 6.32 (5 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET
7/12	SD 6.32 (6 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET - 2 : 1 SLOPE
7/12	SD 6.32 (7 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET - 4 : 1 SLOPE
7/12	SD 6.32 (8 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET - 6 : 1 SLOPE
7/12	SD 6.33 (1 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET
7/12	SD 6.33 (2 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET - 2 : 1 SLOPE
7/12	SD 6.33 (3 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET - 4 : 1 SLOPE
7/12	SD 6.33 (4 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET - 6 : 1 SLOPE
7/12	SD 6.33 (5 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET
7/12	SD 6.33 (6 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET - 2 : 1 SLOPE
7/12	SD 6.33 (7 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET - 4 : 1 SLOPE
7/12	SD 6.33 (8 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET - 6 : 1 SLOPE
7/12	SD 6.34 (1 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET
7/12	SD 6.34 (2 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET - 2 : 1 SLOPE
7/12	SD 6.34 (3 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET - 4 : 1 SLOPE
7/12	SD 6.34 (4 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET - 6 : 1 SLOPE
7/12	SD 6.34 (5 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET
7/12	SD 6.34 (6 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET - 2 : 1 SLOPE
7/12	SD 6.34 (7 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET - 4 : 1 SLOPE
7/12	SD 6.34 (8 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET - 6 : 1 SLOPE
7/12	SD 6.35 (1 OF 2)	PIPE CULVERT HEADWALLS - MULTI-PIPE WITHOUT APRON
7/12	SD 6.35 (2 OF 2)	PIPE CULVERT HEADWALLS - MULTI-PIPE WITH OUTLET APRON
7/12	SD 6.36 (1 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRONS
7/12	SD 6.36 (2 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRON STEEL LIST - 2 : 1 SLOPE
7/12	SD 6.36 (3 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRON STEEL LIST - 4 : 1 SLOPE
7/12	SD 6.36 (4 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRON STEEL LIST - 6 : 1 SLOPE
RETAINING WALLS		
1/15	SD 7.01 (1 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
1/15	SD 7.01 (2 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
1/15	SD 7.01 (3 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
1/15	SD 7.01 (4 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
1/15	SD 7.01 (5 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
9/10	SD 7.02 (1 OF 2)	RETAINING WALL (MASONRY CANTILEVER)
9/10	SD 7.02 (2 OF 2)	RETAINING WALL (MASONRY CANTILEVER)
SOUND BARRIER WALLS		
4/10	SD 8.01	SOUND BARRIER WALL (CONCRETE)
1/13	SD 8.02 (1 OF 2)	SOUND BARRIER WALL (MASONRY)
1/13	SD 8.02 (2 OF 2)	SOUND BARRIER WALL (MASONRY)
TRAFFIC STRUCTURES		
11/04	SD 9.01 (1 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - ELEVATION & NOTES
4/00	SD 9.01 (2 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - FOUNDATION DETAILS
4/00	SD 9.01 (3 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - TYPE A SIGN MOUNT ASSEMBLY
4/00	SD 9.01 (4 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - TYPE B SIGN MOUNT ASSEMBLY
4/00	SD 9.01 (5 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - LIGHT SUPPORT AND MISC. DETAILS
11/04	SD 9.02 (1 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - ELEVATION & NOTES
5/00	SD 9.02 (2 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - FOUNDATION DETAILS
5/00	SD 9.02 (3 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - TYPE A SIGN MOUNT ASSEMBLY
5/00	SD 9.02 (4 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - TYPE B SIGN MOUNT ASSEMBLY
5/00	SD 9.02 (5 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - LIGHT SUPPORT AND MISC. DETAILS
3/11	SD 9.10 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - GENERAL PLAN
3/11	SD 9.10 (2 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - FOUNDATION DETAILS
3/11	SD 9.10 (3 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - POST AND MAST ARM DETAILS
3/11	SD 9.10 (4 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - SIGN SUPPORT DETAILS
3/11	SD 9.10 (5 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - LIGHT SUPPORT DETAILS
3/11	SD 9.20 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - GENERAL PLAN
3/11	SD 9.20 (2 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - FOUNDATION DETAILS
3/11	SD 9.20 (3 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - POST AND MAST ARM DETAILS
3/11	SD 9.20 (4 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - SIGN SUPPORT DETAILS
3/11	SD 9.20 (5 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - LIGHT SUPPORT AND MISC. DETAILS
8/02	SD 9.50 (1 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - PLAN & ELEVATION
8/02	SD 9.50 (2 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
8/02	SD 9.50 (3 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - MOUNTING & SIGN BRACKET DETAILS
7/00	SD 9.50 (4 OF 5)	VARIABLE MESSAGE SIGN - CATWALK - HANDRAIL DETAILS
7/00	SD 9.50 (5 OF 5)	VARIABLE MESSAGE SIGN - CATWALK - MISCELLANEOUS DETAILS
8/02	SD 9.51	DUAL VARIABLE MESSAGE SIGN - TUBULAR FRAME
5/07	SD 9.52 (1 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - PLAN & ELEVATION
5/07	SD 9.52 (2 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
5/07	SD 9.52 (3 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
5/07	SD 9.52 (4 OF 5)	DYNAMIC MESSAGE SIGN - CATWALK - HANDRAIL DETAILS
5/07	SD 9.52 (5 OF 5)	DYNAMIC MESSAGE SIGN - CATWALK - MISCELLANEOUS DETAILS
1/15	SD 9.53 (1 OF 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - PLAN & ELEVATION
1/15	SD 9.53 (2 OF 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - MOUNTING DETAILS
1/15	SD 9.53 (3 OF 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - MOUNTING DETAILS
1/15	SD 9.53 (4 OF 5)	DMS (VARIABLE TILT CABINET) - CATWALK - HANDRAIL DETAILS
1/15	SD 9.53 (5 OF 5)	DMS (VARIABLE TILT CABINET) - CATWALK - MISCELLANEOUS DETAILS

REV.: 5/15

ADOT STANDARD DRAWINGS			
REVISION DATES and STANDARD NO.'s REVIEW			
STRUCTURES Standards		NAME	DATE
PROJECT NO.			
LITTLE COLORADO RIVER TRIBAL PARK		10	OF 30
RECORD DRAWING DATA	FEDERAL AID NO.	REC. DWG. DATE	OF

DATE-

LOCATION-

REVISIONS-

FINISHED PLANS-

SURVEY NO.

DATE-

LOCATION-

REVISIONS-

FINISHED PLANS-

SURVEY NO.

MIDPOINT OF PROJECT

X=9489  
Y=9820

LENGTH OF PROJECT

SR 64 Sta 956+49 to Sta 988+07 = 3158 ft = 0.60 Miles

REFERENCES

STP-064-B(001)A      2005

GENERAL NOTES

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

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

Pavement lift thickness is nominal.

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

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

The average project elevation is 5000'.

New Right of Way and easements are not required.

The centerline and pavement shoulders shall be treated with a rumble strip per ADOT Std Dwg No. M-22.

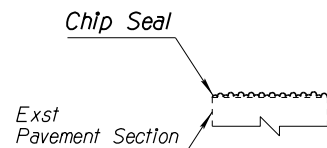
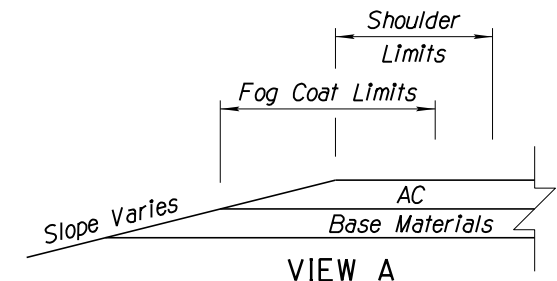
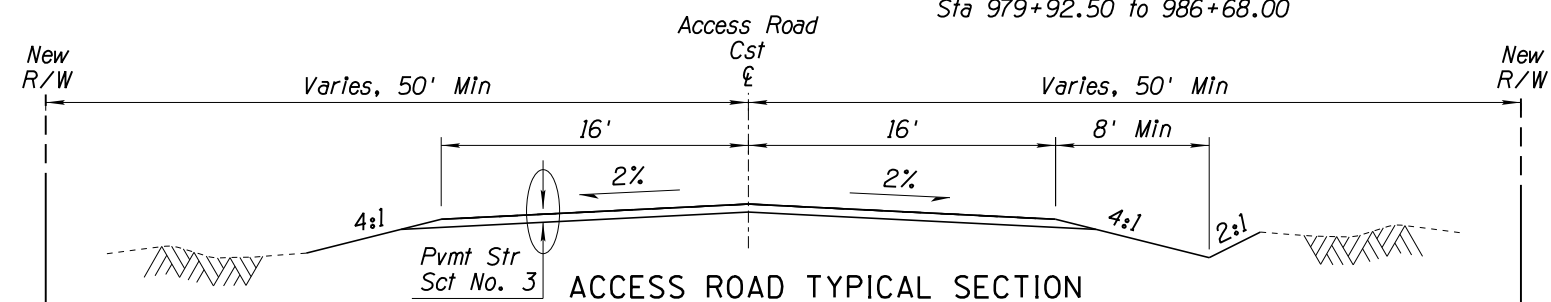
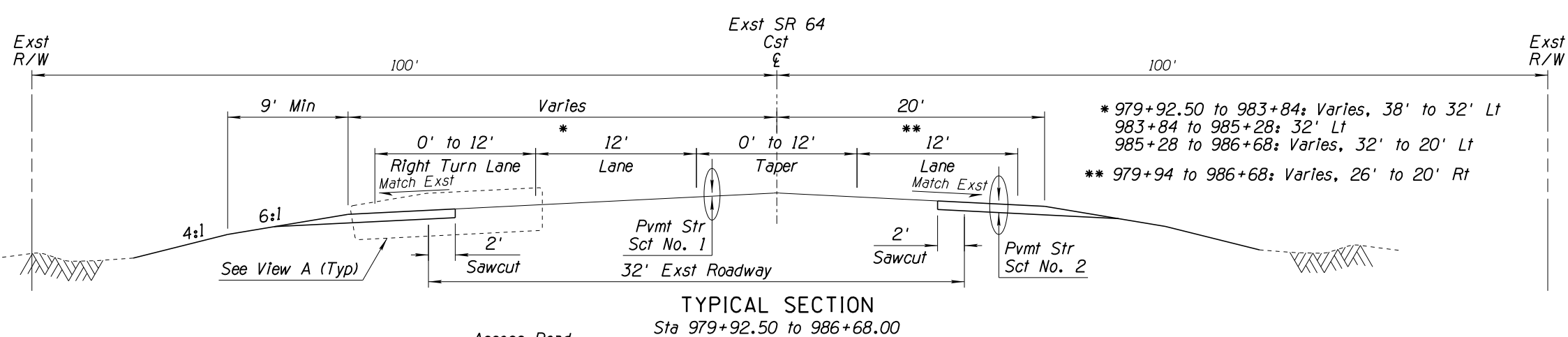
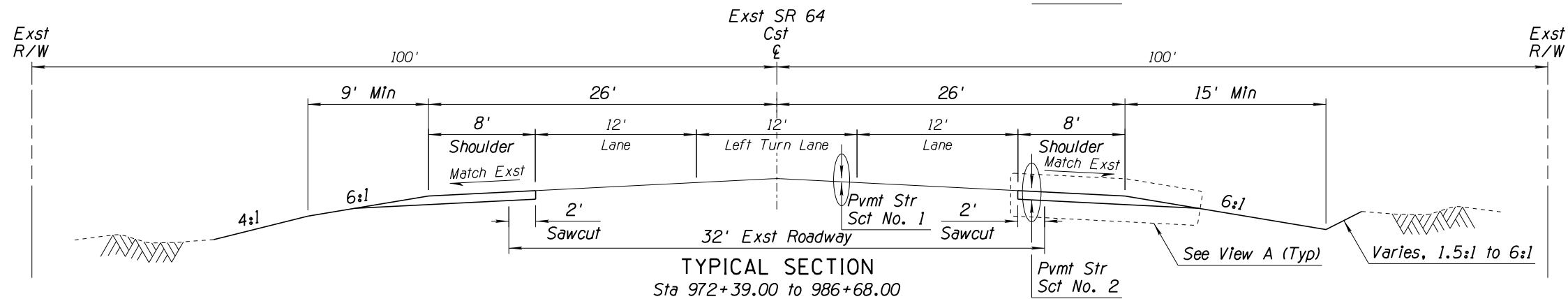
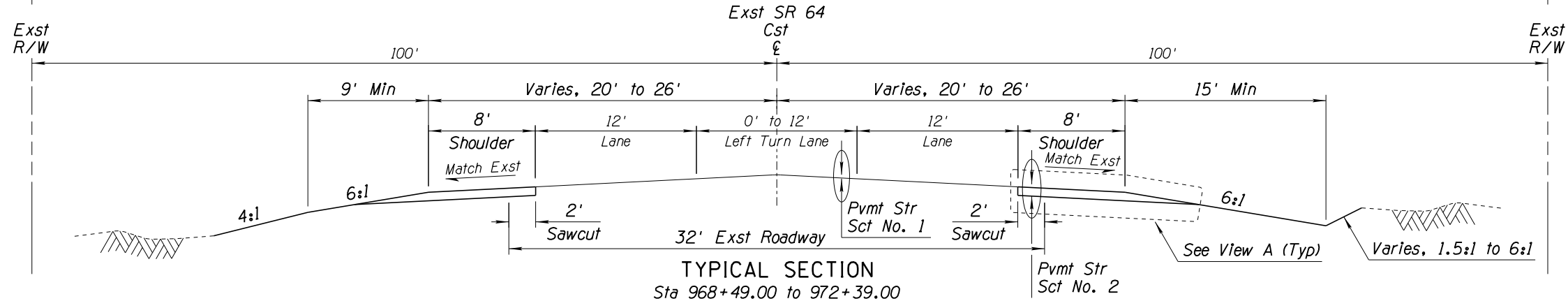
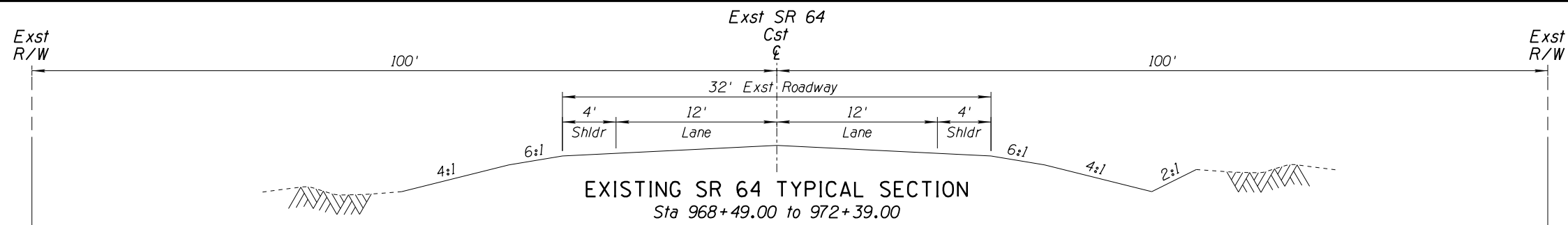
EARTHWORK QUANTITIES				
	SR 64	ACCESS ROAD	PARKING LOT	TOTAL
Roadway Excavation	6,718 CY	1,392 CY	76 CY	8,186 CY
Shrink	1,008 CY	209 CY	11 CY	1,228 CY
Structural Excavation	247 CY			247 CY
Shrink	37 CY			37 CY
Pipe Excavation	97 CY	159 CY		257 CY
Shrink	15 CY	24 CY		39 CY
Embankment (Including Gnd Comp)	2,976 CY	4,292 CY	6,387 CY	12,304 CY
Borrow	(3,026) CY	2,974 CY	6,322 CY	6,270 CY
*Import Material - Not Included in Embankment*				
Structural Backfill	50 CY			50 CY
Pipe	20 CY	34 CY		54 CY

EARTHWORK FACTORS		
Segment	Shrink/Swell	Ground Compaction
SR 64	15%	0.15'
Access Road	15%	0.15'
Parking Lot	15%	0.15'

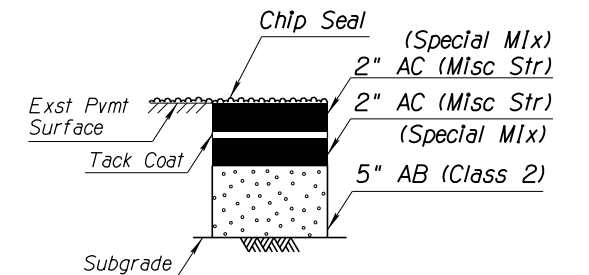
DESIGN		J. Holman	10/17	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS NAVAJO PARKS & RECREATION DEPARTMENT
DRAWN		D. Burmeister	10/17	
CHECKED		T. Wolfe	10/17	
Dibble Engineering		7878 North 16th Street Suite 300 Phoenix, AZ 85020 P 602.997.1155		DESIGN DATA SHEET
ROUTE		SR 64		LITTLE COLORADO RIVER TRIBAL PARK
DIBBLE PROJECT No.		101411.09		COCONINO COUNTY, AZ
				DWG No. G-1.01
				2 OF 30

Professional Engineer  
24154  
TIMOTHY M. WOLFE  
Arizona, U.S.A.  
Expires 12/31/19

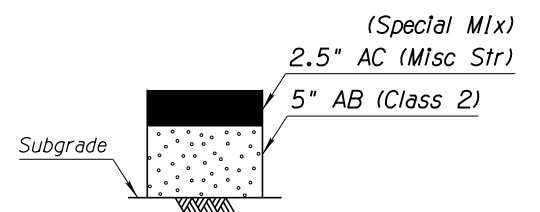
DATE: LOCATION: REVISIONS: FINISHED PLANS: REVISIONS: DATE: FINISHED PLANS: REVISIONS: DATE: FINISHED PLANS: SURVEY NO.




Total Thickness = N/A  
SECTION NO. 1



Total Thickness = 9 1/2"  
SECTION NO. 2



Total Thickness = 7 1/2"  
SECTION NO. 3



DESIGN	J. Holman	DATE	10/17	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS NAVAJO PARKS & RECREATION DEPARTMENT	
DRAWN	D. Burmeister	10/17		TYPICAL SECTIONS AND PAVEMENT STRUCTURAL SECTIONS	
CHECKED	T. Wolfe	10/17			
ROUTE		SR 64	LOCATION	LITTLE COLORADO RIVER TRIBAL PARK	DWG No. G-1.02
DIBBLE PROJECT No. 101411.09			COCONINO COUNTY, AZ		3 OF 30

NOTE:  
THE ZEROS IN PARENTHESES (0, 0.0 & 0.000) INDICATE  
THE DIMENSIONAL PRECISION FOR THAT COLUMN

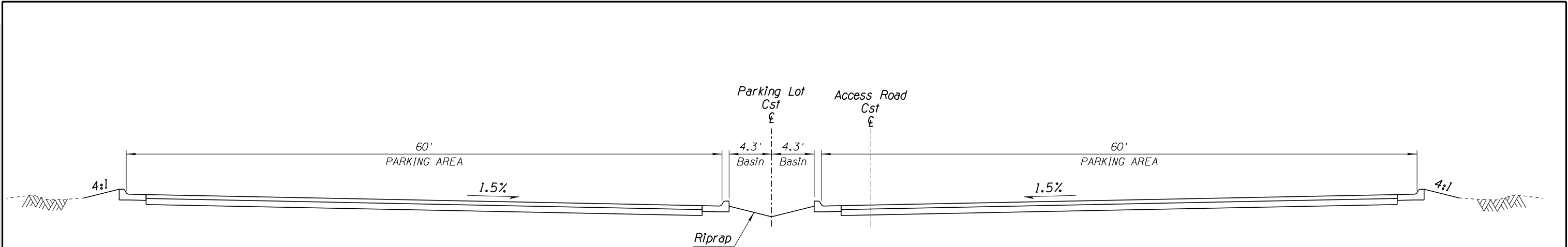
PIPE CORRUGATION			
A	2 $\frac{2}{3}$ x $\frac{1}{2}$	D	6x2
B	3x1	E	3x1 or 9x2 $\frac{1}{2}$
C	9x2 $\frac{1}{2}$		

NOTE:  
FOR STRUCTURAL EXCAVATION, STRUCTURE  
BACKFILL PLACEMENT AND MEASUREMENT, SEE  
STRUCTURE DETAIL DRAWING SD 6.01 (4 OF 5)

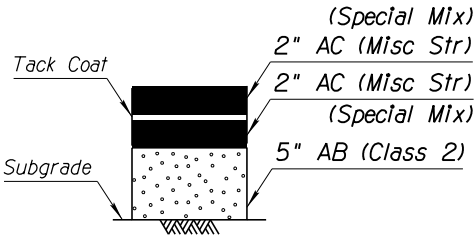
## ▲ Construction & Looking Ahead

	NAME	DATE	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS		
DESIGN	A. Cox	10/17	NAVAJO PARKS & RECREATION DEPARTMENT		
DRAWN	D. Burmeister	10/17			
CHECKED	T. Wolfe	10/17			
 7878 North 16th Street Suite 300 Phoenix, AZ 85020 P 602.957.1155			NEW PIPE SUMMARY SHEET		
ROUTE		LOCATION		DWG No. G-1.03	
SR 64		LITTLE COLORADO RIVER TRIBAL PARK			
DIBBLE PROJECT No. 101411.09			COCONINO COUNTY, AZ		<u>4</u> OF <u>30</u>

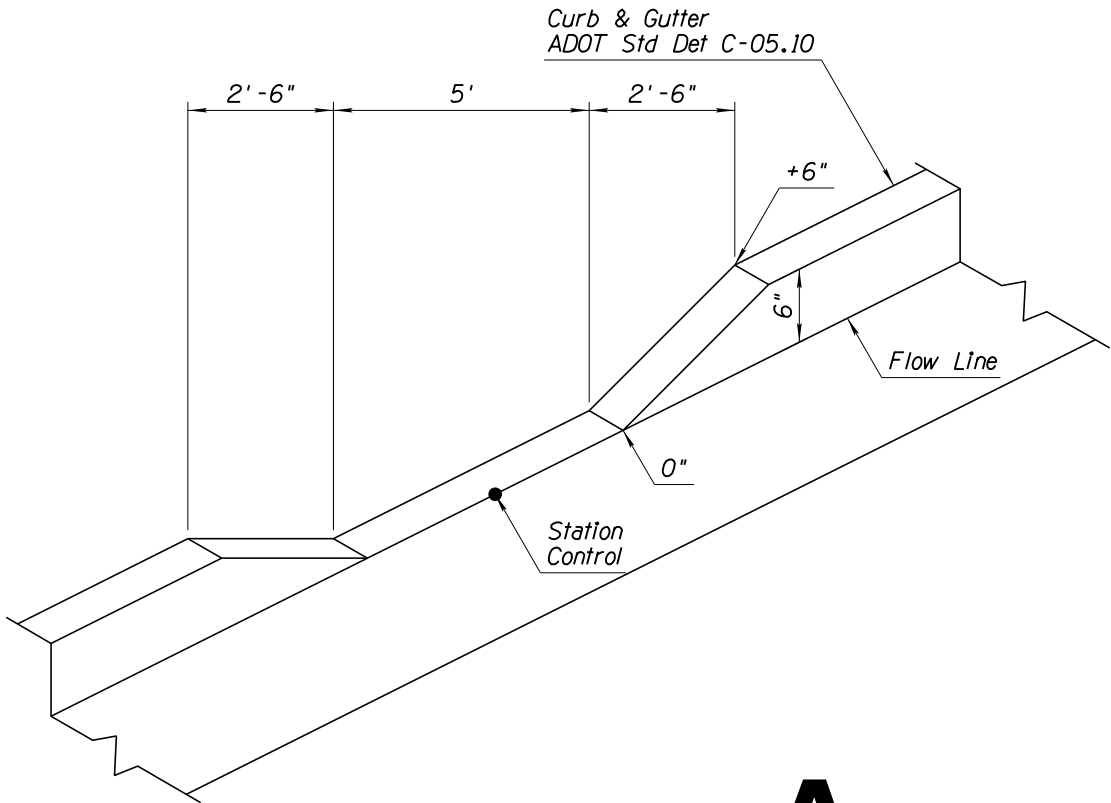
DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.



PARKING LOT TYPICAL SECTION

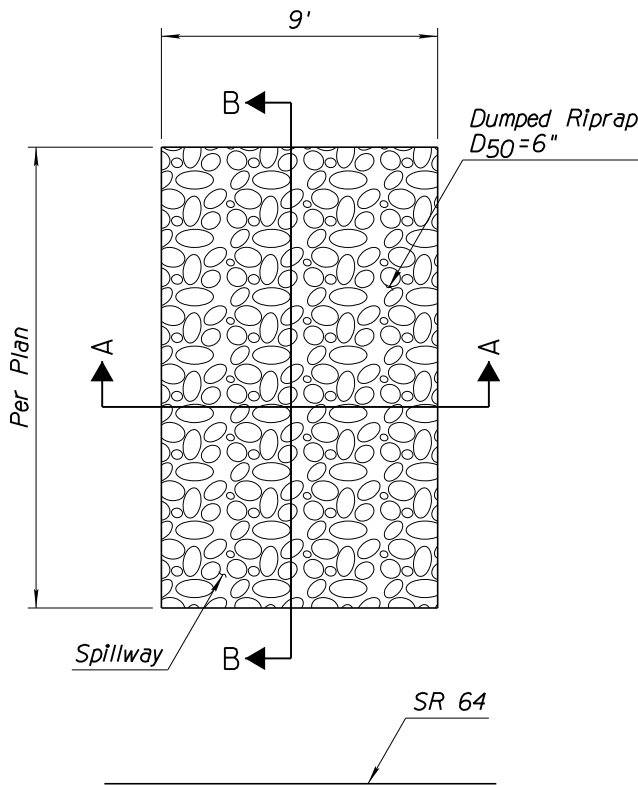


SECTION NO. 4

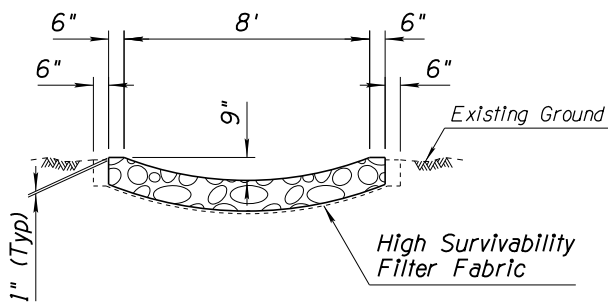


DETAIL A  
CURB OPENING

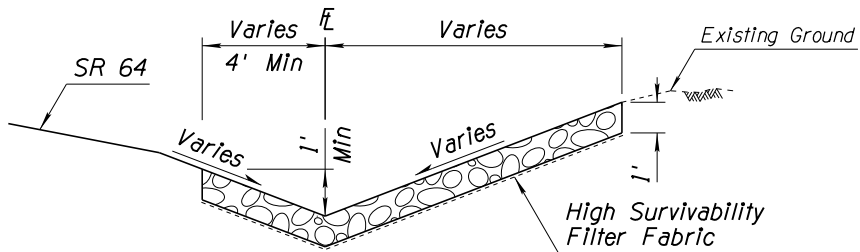
DESIGN	J. Holman	10/17	NAVAJO DIVISION OF TRANSPORTATION	
DRAWN	D. Burmeister	10/17	DEPARTMENT OF ROADS	
CHECKED	T. Wolfe	10/17	NAVAJO PARKS & RECREATION DEPARTMENT	
<b>Dibble Engineering</b> 7878 North 16th Street Suite 300 Phoenix, AZ 85020 P 602.997.1155	DETAIL A PARKING LOT TYPICAL SECTION		DWG No. G-1.04	
ROUTE	SR 64	LOCATION	LITTLE COLORADO RIVER TRIBAL PARK	
DIBBLE PROJECT No. 101411.09			COCONINO COUNTY, AZ	5 OF 30



PLAN



SECTION A-A



SECTION B-B

DUMPED RIP-RAP D50 =6"	
% PASSING	GRADATION
100-90	12 Inch
85-70	9 Inch
50-30	6 Inch
15-5	4 Inch
5-0	2 Inch

NOTE: High Survivability Filter Fabric shall be paid as Item 2080001

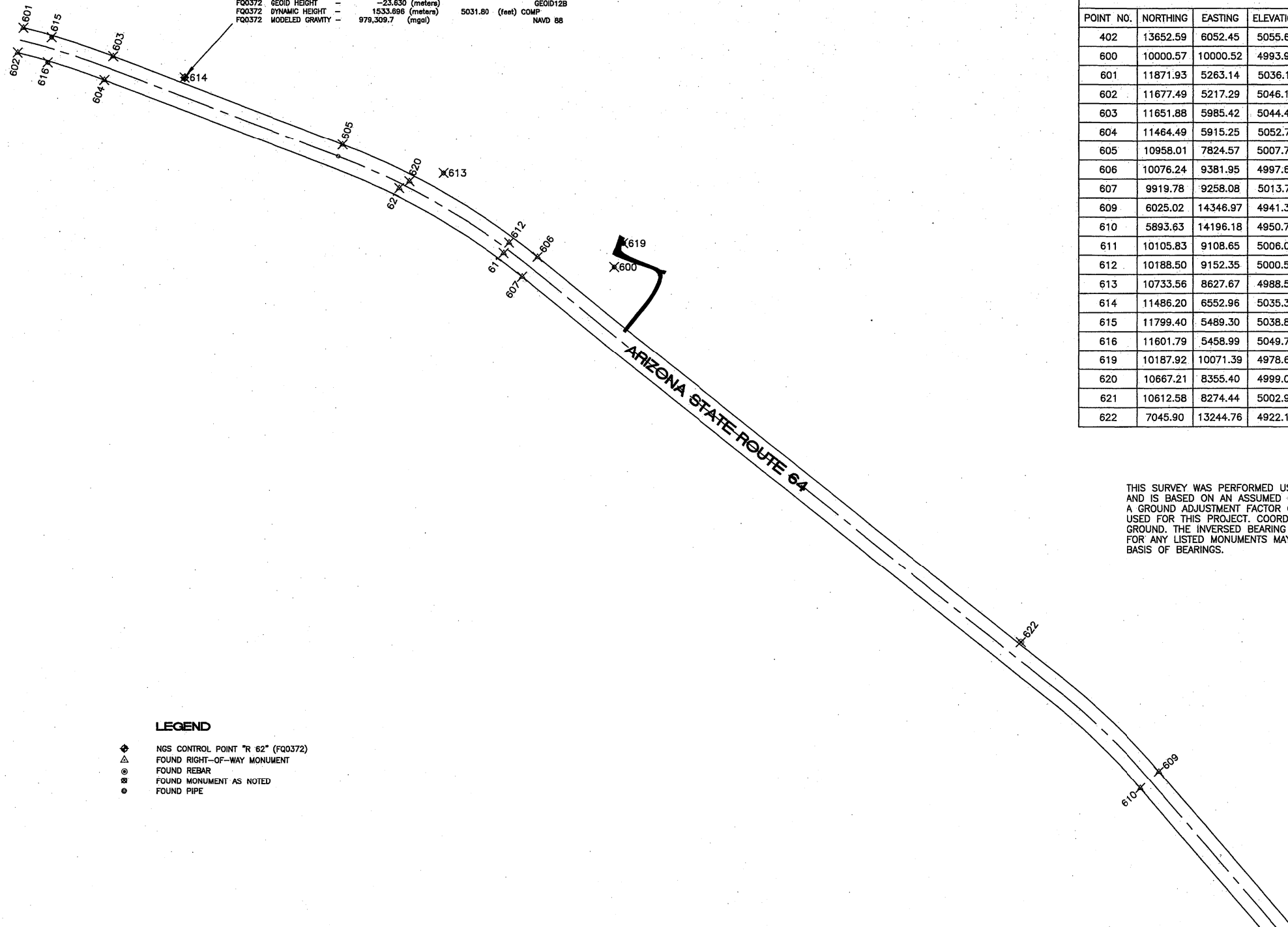
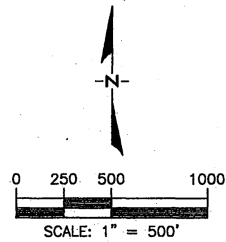
DETAIL B  
RIPRAP SPILLWAY

DESIGN	J. Holman	10/17	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS NAVAJO PARKS & RECREATION DEPARTMENT	
DRAWN	D. Burmeister	10/17		
CHECKED	T. Wolfe	10/17		
<b>Dibble Engineering</b> 7878 North 16th Street Suite 300 Phoenix, AZ 85020 P 602.997.1355			DETAIL B	
ROUTE SR 64		LOCATION LITTLE COLORADO RIVER TRIBAL PARK		DWG No. G-1.05
DIBBLE PROJECT No. 101411.09			COCONINO COUNTY, AZ	6 OF 30

DATE: LOCATION: REVISIONS: SURVEY NO. DATE: LOCATION: REVISIONS: SURVEY NO.

X402

DESIGNATION -- R 62  
FQ0372 PID -- FQ0372  
FQ0372 STATE/COUNTY -- AZ/COCONINO  
FQ0372 COUNTRY -- US  
FQ0372 USGS QUAD -- COCONINO POINT (1988)  
FQ0372 \*CURRENT SURVEY CONTROL  
FQ0372  
FQ0372\* NAD 83(1982) POSITION-- 35 55 18.35513(N) 111 34 34.44771(W) ADJUSTED  
FQ0372\* NAVD 88 ORTHO HEIGHT -- 1535.648 (meters) 5038.20 (feet) ADJUSTED  
FQ0372  
FQ0372 LAPLACE CORR -- -5.57 (seconds) DEFLEC12B  
FQ0372 GEOD HEIGHT -- -23.630 (meters) GEOD12B  
FQ0372 DYNAMIC HEIGHT -- 1533.898 (meters) 5031.80 (feet) COMP  
FQ0372 MODELED GRAVITY -- 979,309.7 (mgal) NAVD 88



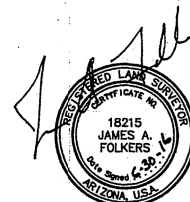
LEGEND

- ◆ NGS CONTROL POINT "R 62" (FQ0372)
- △ FOUND RIGHT-OF-WAY MONUMENT
- FOUND REBAR
- FOUND MONUMENT AS NOTED
- FOUND PIPE

POINT TABLE				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
402	13652.59	6052.45	5055.69	REBAR
600	10000.57	10000.52	4993.98	BRASS CAP
601	11871.93	5263.14	5036.11	ALUMINUM CAP
602	11677.49	5217.29	5046.18	ALUMINUM CAP
603	11651.88	5985.42	5044.49	ALUMINUM CAP
604	11464.49	5915.25	5052.71	ALUMINUM CAP
605	10958.01	7824.57	5007.78	ALUMINUM CAP
606	10076.24	9381.95	4997.60	BRASS CAP
607	9919.78	9258.08	5013.71	BRASS CAP
609	6025.02	14346.97	4941.30	BRASS CAP
610	5893.63	14196.18	4950.78	BRASS CAP
611	10105.83	9108.65	5006.07	ALUMINUM CAP
612	10188.50	9152.35	5000.54	ALUMINUM CAP
613	10733.56	8627.67	4988.58	BRASS CAP
614	11486.20	6552.96	5035.32	USCGS BRASS CAP
615	11799.40	5489.30	5038.86	BRASS CAP
616	11601.79	5458.99	5049.78	BRASS CAP
619	10187.92	10071.39	4978.65	IRON PIPE
620	10667.21	8355.40	4999.06	BRASS CAP
621	10612.58	8274.44	5002.97	BRASS CAP
622	7045.90	13244.76	4922.12	REBAR

THE PUBLISHED NGVD 29 EL. IS 5035.23

THIS SURVEY WAS PERFORMED USING GPS METHODS AND IS BASED ON AN ASSUMED COORDINATE SYSTEM. A GROUND ADJUSTMENT FACTOR OF 1.000235231260 WAS USED FOR THIS PROJECT. COORDINATES SHOWN ARE GROUND. THE INVERSED BEARING BETWEEN COORDINATES FOR ANY LISTED MONUMENTS MAY BE USED AS A BASIS OF BEARINGS.

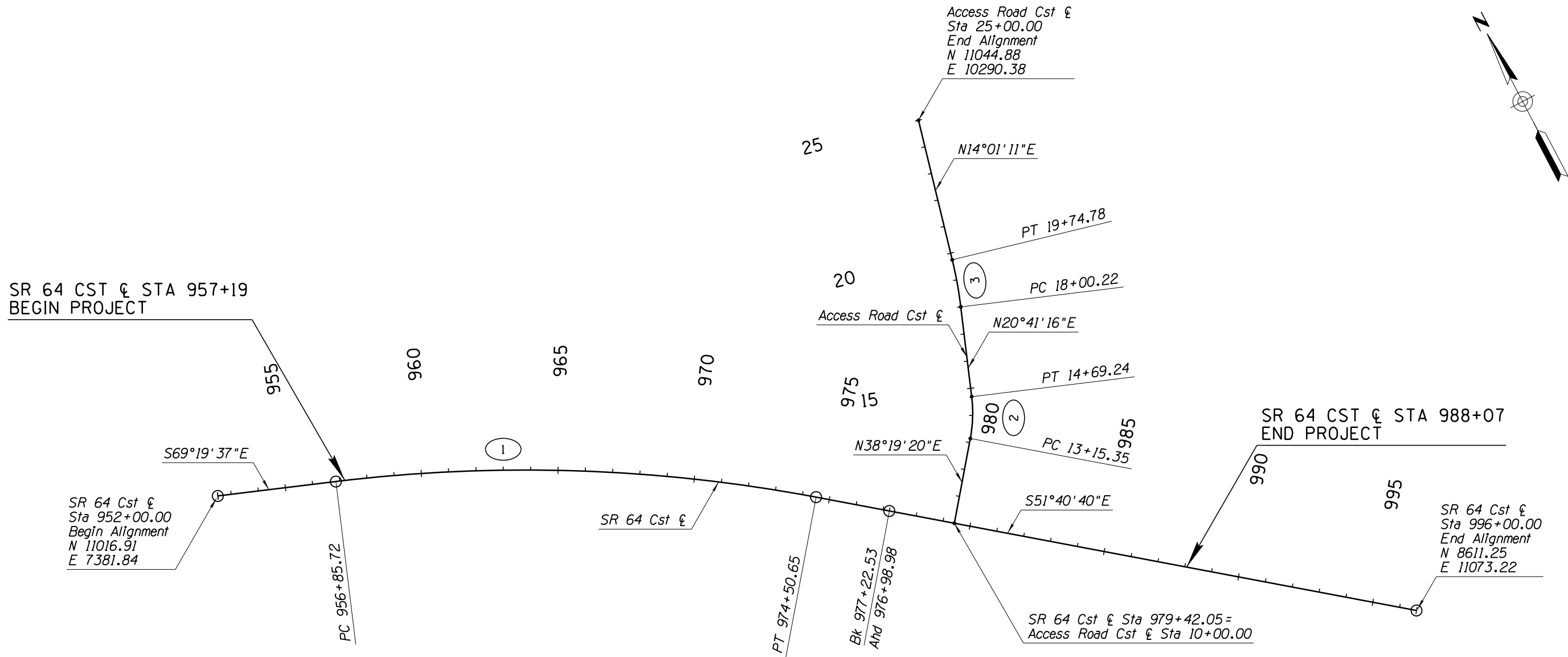


WOODSON ENGINEERING AND SURVEYING INC.

124 N. ELDEN ST., FLAGSTAFF, AZ 86001 PHONE: (928) 774-4636 FAX: (928) 774-4646

PROJECT NO. 115579

NAME	DATE	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS NAVAJO PARKS & RECREATION DEPARTMENT		REFER TO SEAL ON PLAN	
DESIGN	A. Cox	6/16			
DRAWN	D. Burmeister	6/16			
CHECKED	D. Spear	6/16	SURVEY CONTROL SHEET		
Dibble Engineering		7500 N. Drenth Drive Suite 200 Phoenix, AZ 85020 P 602.997.1195	SR 64		
ROUTE		LOCATION		DWG No. C-1.01	
DIBBLE PROJECT No. 101411.09		LITTLE COLORADO RIVER TRIBAL PARK		7 OF 30	
		COCONINO COUNTY, AZ			



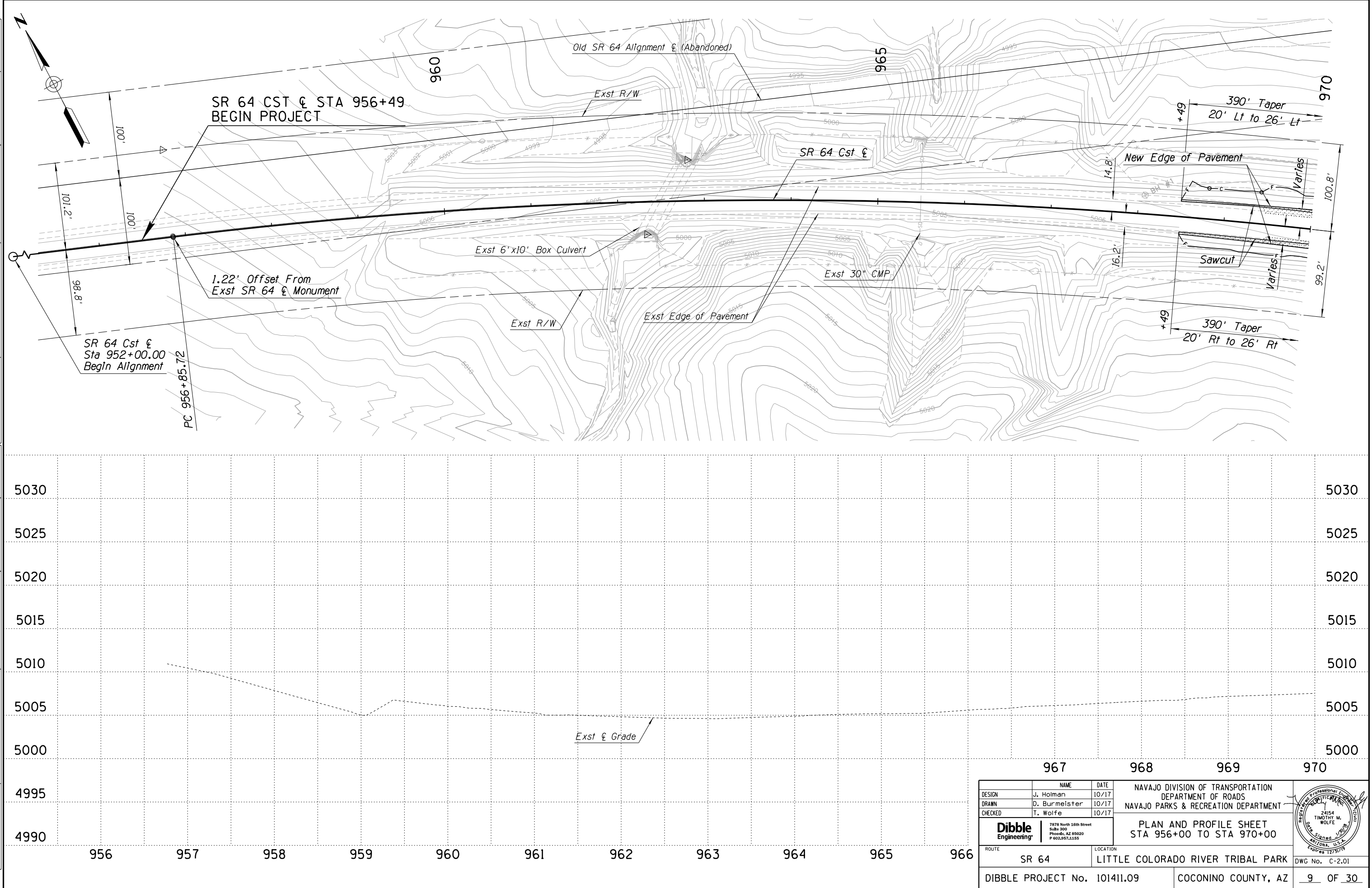
① CURVE DATA  
PI Sta 965+75.23  
Main Curve  
 $\Delta = 17^\circ 38' 58''$  Rt  
 $D = 1^\circ 00' 00''$   
 $R = 5729.58'$   
 $L = 1764.93'$   
 $T = 889.51'$   
 $Ext = 68.64'$

② CURVE DATA  
PI Sta 13+92.91  
Main Curve  
 $\Delta = 17^\circ 38' 05''$  Lt  
 $D = 11^\circ 27' 33''$   
 $R = 500.00'$   
 $L = 153.89'$   
 $T = 77.56'$   
 $Ext = 5.98'$

③ CURVE DATA  
PI Sta 18+87.60  
Main Curve  
 $\Delta = 6^\circ 40' 04''$  Lt  
 $D = 3^\circ 49' 11''$   
 $R = 1500.00'$   
 $L = 174.56'$   
 $T = 87.38'$   
 $Ext = 2.54'$

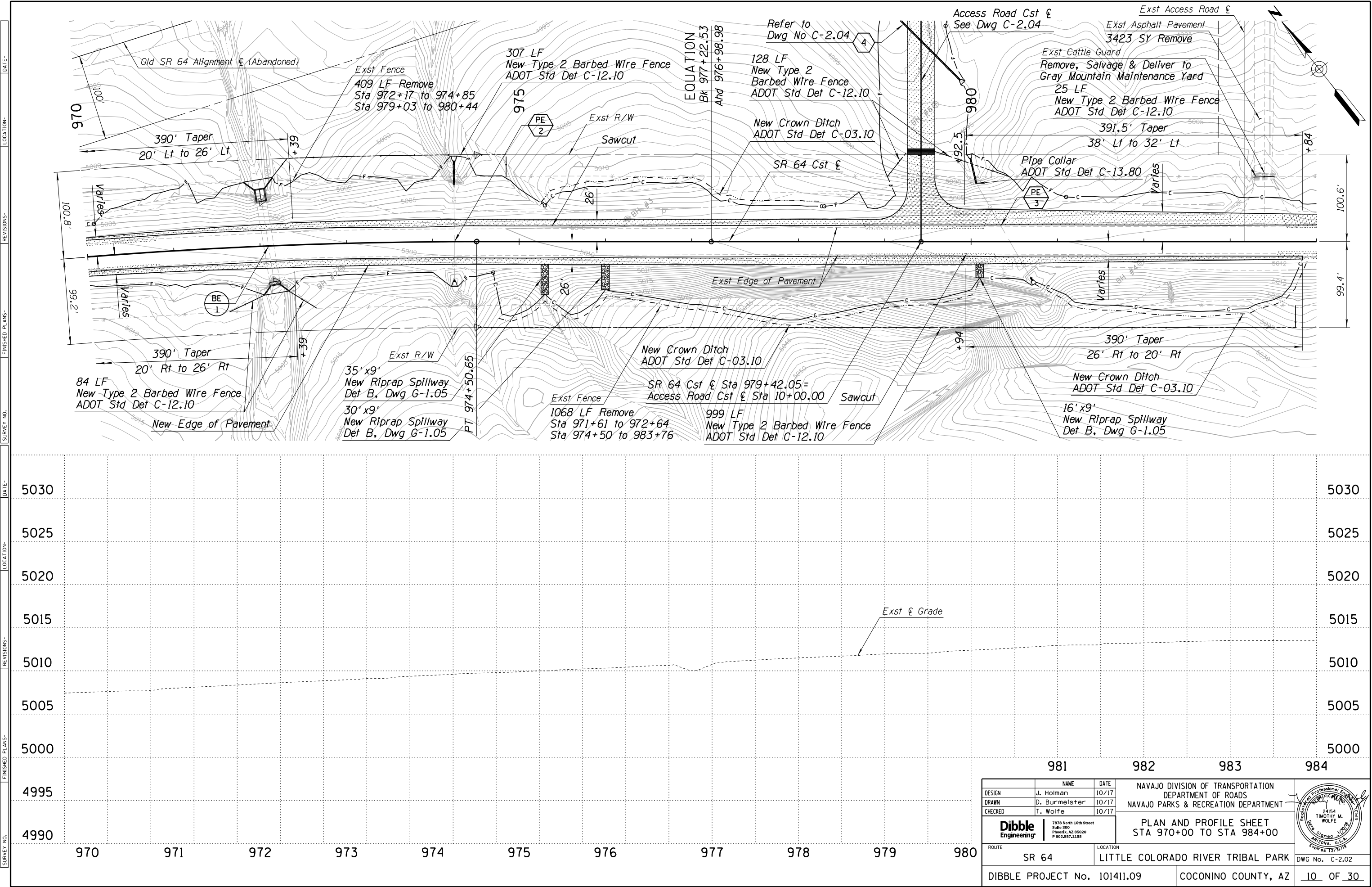
	NAME	DATE	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS		
DESIGN	J. Holman	10/17	NAVAJO PARKS & RECREATION DEPARTMENT		
DRAWN	D. Burmeister	10/17			
CHECKED	T. Wolfe	10/17			
<div><b>Dibble</b> Engineering® 7878 North 16th Street Suite 300 Phoenix, AZ 85020 P 602.997.1355</div>			GEOMETRIC PLAN SHEET		
ROUTE SR 64		LOCATION LITTLE COLORADO RIVER TRIBAL PARK		DWG No. C-1.02	
DIBBLE PROJECT No. 101411.09			COCONINO COUNTY, AZ		8 OF 30

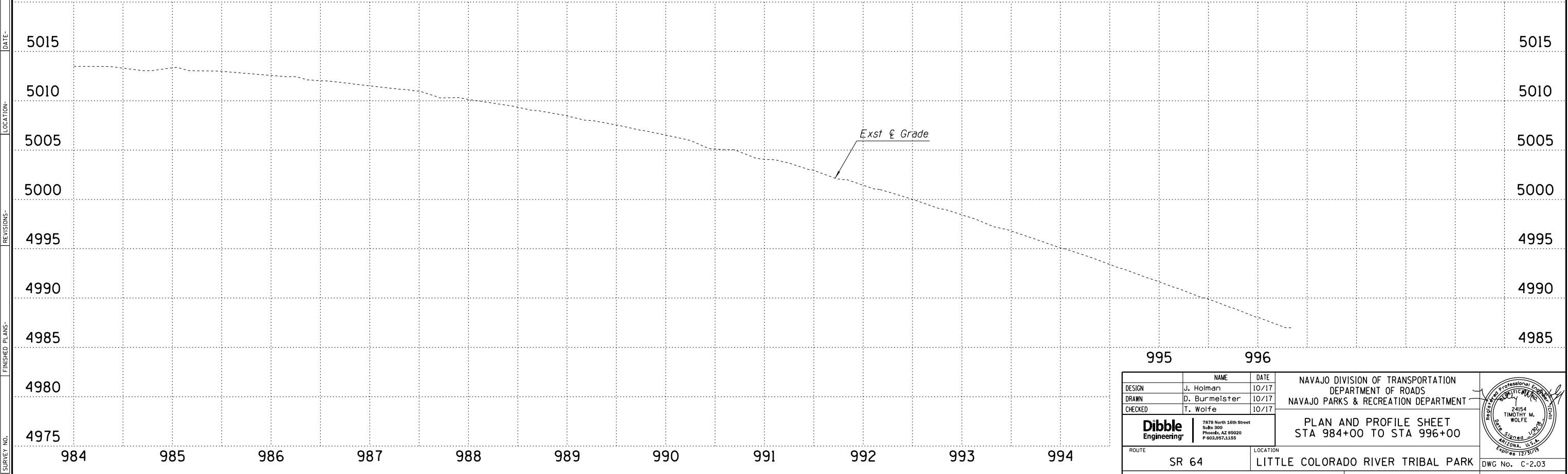
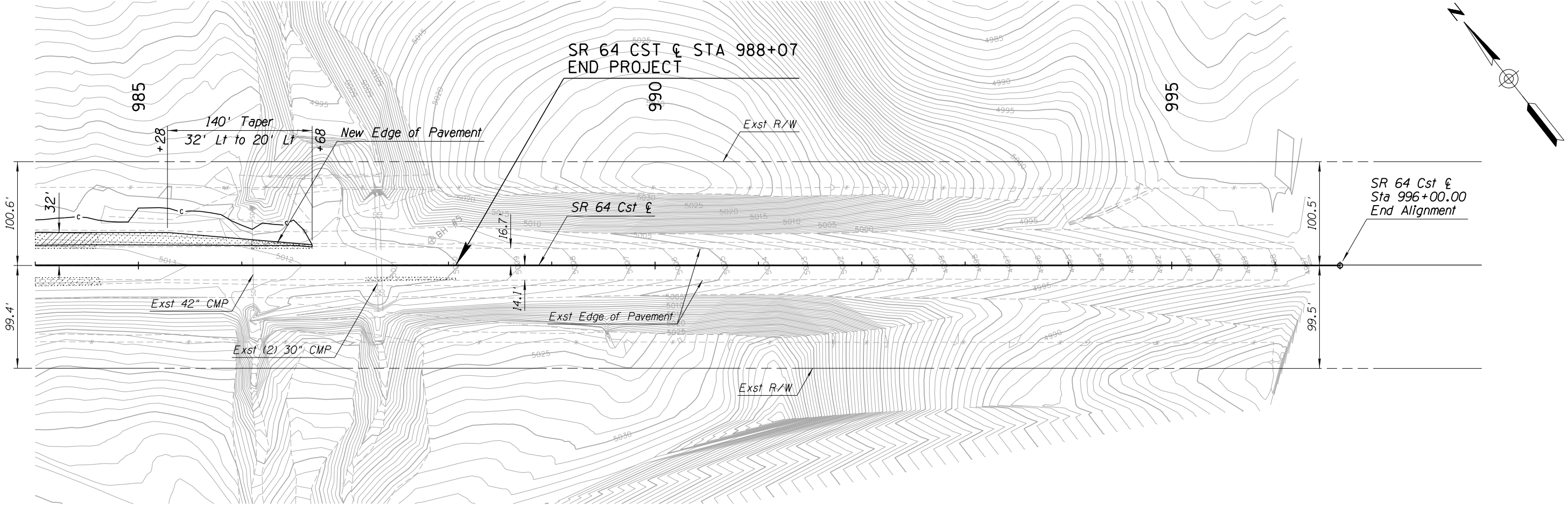




DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

DESIGN	J. Holman	DATE	10/17	<b>NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS NAVAJO PARKS &amp; RECREATION DEPARTMENT</b>	
DRAWN	D. Burmeister	10/17			
CHECKED	T. Wolfe	10/17			
<b>Dibble Engineering</b>		7878 North 16th Street Suite 300 Phoenix, AZ 85020 P 602.997.1355		<b>PLAN AND PROFILE SHEET STA 956+00 TO STA 970+00</b>	
ROUTE		LOCATION			
SR 64		LITTLE COLORADO RIVER TRIBAL PARK			
DIBBLE PROJECT No. 101411.09				COCONINO COUNTY, AZ	DWG No. C-2.01
				9	OF 30



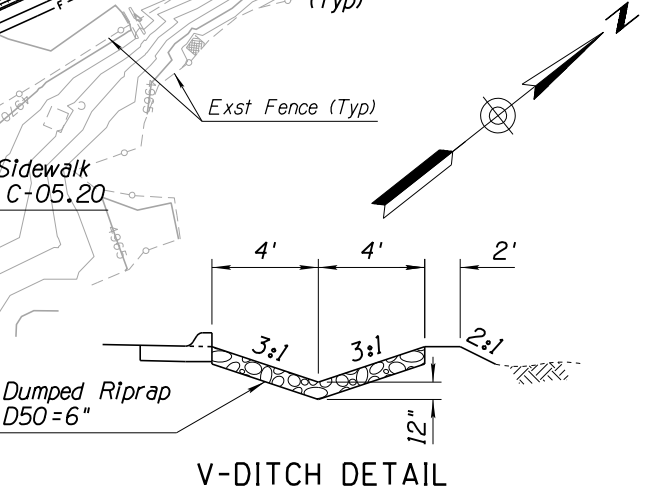
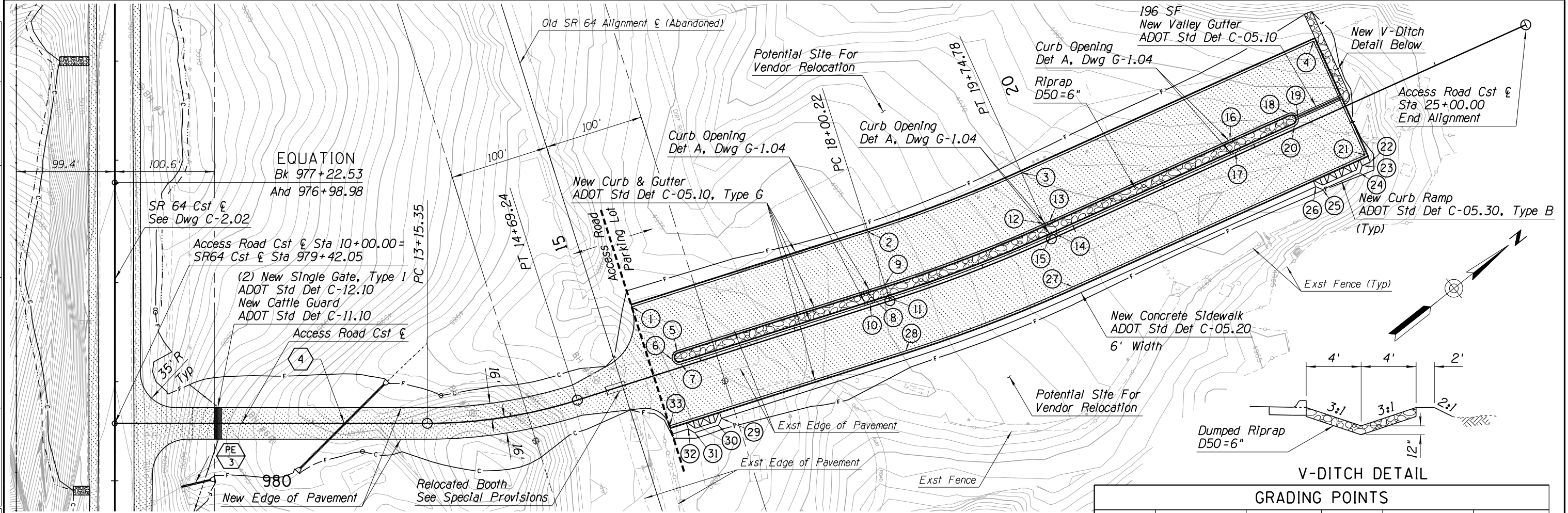


ROUTE		SR 64		LOCATION		LITTLE COLORADO RIVER TRIBAL PARK		DWG No. C-2.03	
DIBBLE PROJECT No. 101411.09		COCONINO COUNTY, AZ		11		OF 30			

DESIGN	J. Holman	DATE	10/17	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS NAVAJO PARKS & RECREATION DEPARTMENT	
DRAWN	D. Burmeister	DATE	10/17	<b>PLAN AND PROFILE SHEET STA 984+00 TO STA 996+00</b>	
CHECKED	T. Wolfe	DATE	10/17		

**Dibble Engineering**  
7878 North 16th Street  
Suite 300  
Phoenix, AZ 85020  
P 602.997.1355

**Professional Engineer**  
24154  
TIMOTHY M. WOLFE  
Arizona, U.S.A.  
Expires 12/31/19



GRADING POINTS					
Point No.	Station	Elevation	Point No.	Station	Elevation
1	15+50	G=81.60	19	22+52	G=65.81
2	18+00.22	G=76.48	20	22+45	G=67.47
3	19+74.25	G=72.58	21	23+00	G=68.02
4	23+00	G=67.08	22	23+00	G=68.24
5	15+80	G=80.48	23	22+90.98	C=68.38
6	15+73	G=80.53	24	22+85.98	C=68.50
7	15+80	G=80.48	25	22+44.65	C=69.13
8	17+80	G=75.88	26	22+39.65	C=69.16
9	18+00.22	G=75.47	27	19+74.75	G=72.58
10	17+80	G=75.88	28	18+00.22	C=77.07
11	18+00.22	G=76.47	29	16+02.25	C=81.12
12	19+74.75	G=71.57	30	15+97.25	C=81.29
13	19+80	G=71.49	31	15+72.09	C=81.79
14	19+80	G=71.49	32	15+67.09	C=81.84
15	19+74.25	G=71.57	33	15+50	G=81.60
16	21+80	G=68.46			
17	21+80	G=68.46			
18	22+45	G=67.47			



DESIGNJ. Holman10/17

DRAWND. Burmeister10/17

CHECKEDT. Wolfe10/17

NAME

DATE

NAVAJO DIVISION OF TRANSPORTATION  
DEPARTMENT OF ROADS  
NAVAJO PARKS & RECREATION DEPARTMENT

**Dibble**  
Engineering

7878 North 16th Street  
Suite 300  
Phoenix, AZ 85020  
P 602.997.1355

PLAN AND PROFILE SHEET  
ACCESS ROAD

ROUTE

SR 64

LOCATION

LITTLE COLORADO RIVER TRIBAL PARK

DWG No.

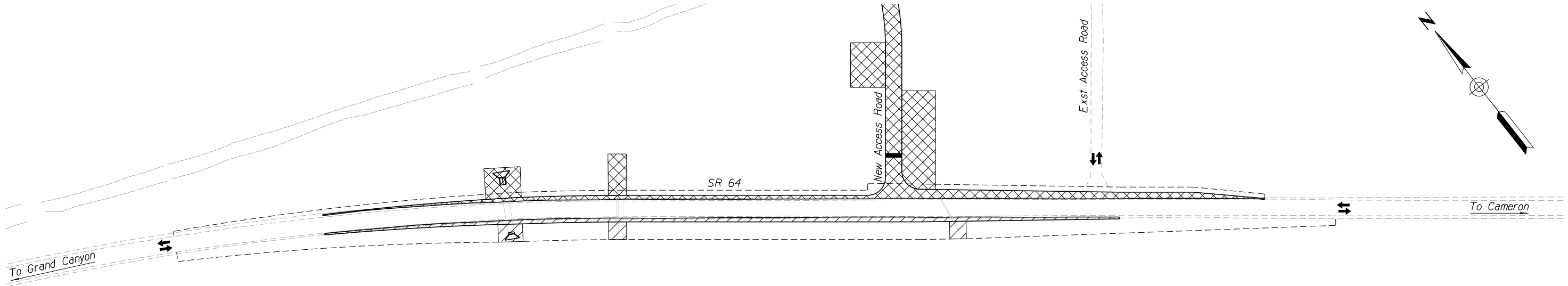
C-2.04

DIBBLE PROJECT No. 101411.09

COCONINO COUNTY, AZ

12 OF 30

Professional Engineer  
24154  
TIMOTHY M. WOLFE  
Arizona, U.S.A.  
Expires 12/31/19



PHASE	CONSTRUCTION ACTIVITY	MAINTENANCE OF TRAFFIC
1	Sawcut / Remove South Side AC Pavement of SR 64 Install New South Side AC Pavement Install New South Side Culvert Extensions	Shift EB/WB SR 64 Traffic North Maintain Exst Access Road Traffic
2	Sawcut / Remove North Side AC Pavement of SR 64 Install New North Side AC Pavement Construct New Access Road Install New North Side Culvert Extensions & Culvert	Shift EB/WB SR 64 Traffic South Maintain Exst Access Road Traffic
3	Install Chip Seal Install Seeding	Maintain 1-Way Traffic/Pilot car/flaggers per ADOT TCDG Fig. SA-3 Provide Access to All Cross Streets-per ADOT TCDG Fig. SA-19 modified for seeding

SYMBOL LEGEND:

	PHASE 1 WORK AREA
	PHASE 2 WORK AREA
	PHASE 3 WORK AREA
	TRAFFIC DIRECTION

NOTE:  
This Plan Represents a Suggested Sequence of Construction. The Contractor Shall Perform the Work in the Most Expeditious Manner Consistent with the Plans and the Special Provisions, with Approval of the Engineer.

APPROXIMATE TRAFFIC CONTROL QUANTITIES								
ESTIMATED DURATION (WORK DAYS)			ADVANCE SIGNING	PHASE 1	PHASE 2	PHASE 3 CHIP SEAL	PHASE 3 SEEDING	PROJECT TOTAL
			67	20	40	2	5	67
ITEM NO	ITEM DESCRIPTION	UNIT	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
7015010	TEMPORARY CONCRETE BARRIER (INSTALLATION & REMOVAL)	LF		2,456	2,695			5,151
7015020	TEMPORARY IMPACT ATTENUATOR (INSTALLATION & REMOVAL)	EACH		2	2			4
7015042	TEMPORARY PAINTED MARKING (STRIPE)	LF	21,720					21,720
7015052	OBLITERATE PAVEMENT MARKING (STRIPE)	LF	6,380					6,380
7016020	TEMPORARY CONCRETE BARRIER (IN USE)	LF-DAY		2,456	2,695			156,920
7016030	BARRICADE (TYPE II, VERT PANEL, TUBULAR MARKER)	EACH-DAY	24			49		1,706
7016031	BARRICADE (TYPE III, HIGH LEVEL FLAG TREES)	EACH-DAY	48			98		3,412
7016033	PORTABLE SIGN STANDS (SPRING TYPE)	EACH-DAY	18			12		1,230
7016035	WARNING LIGHTS (TYPE A)	EACH-DAY	16			61		1,194
7016037	WARNING LIGHTS (TYPE C)	EACH-DAY	24					1,608
7016050	TRUCK MOUNTED ATTENUATOR	EACH-DAY				1	1	7
7016051	TEMPORARY SIGN (LESS THAN 10 SF)	EACH-DAY	12			12		828
7016052	TEMPORARY SIGN (10 SF OR MORE)	EACH-DAY	4					268
7016067	CHANGEABLE MESSAGE BOARD (CONTRACTOR FURNISHED)	EACH-DAY	2					134
7016071	PILOT VEHICLE WITH DRIVER	HOURL				20		20
7016075	FLAGGING SERVICES (CIVILIAN)	HOURL				20		20
7016080	FLAGGING SERVICES (DPS)	HOURL				10		10
7020011	IMPACT ATTENUATION DEVICE (SAND BARREL CRASH CUSHION, TYPE A)	EACH		2	2			4

DESIGN		NAME	DATE	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS NAVAJO PARKS & RECREATION DEPARTMENT	
DRAWN		I. Mowry	10/17		
CHECKED		D. Burmeister	10/17		
		T. Wolfe	10/17	CONSTRUCTION SEQUENCING PHASES 1, 2 & 3	
ROUTE		SR 64		LOCATION	LITTLE COLORADO RIVER TRIBAL PARK
DIBBLE PROJECT No.		101411.09		COCONINO COUNTY, AZ	DWG No. TC-1.01
					13 OF 30





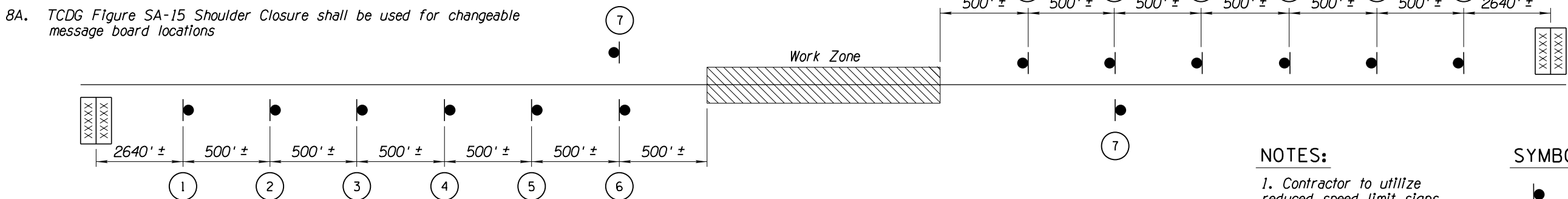
TRAFFIC CONTROL GENERAL NOTES

- The traffic control plans represent a suggested method for traffic control during construction. The contractor may prepare alternate traffic control plans in accordance with Section 701 "Maintenance and Protection of Traffic" of the Standard Specifications. All traffic control plans are subject to the approval of the Engineer before beginning construction. The contractor shall submit this plan to allow at least two weeks for review and approval in advance of construction.
- Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities, as determined by the Engineer.
- All existing signs in conflict with the construction signs shall be removed, relocated or covered in place, as directed by the Engineer. The contractor shall store and reinstall items which have been removed or relocated in a manner approved by the Engineer at no cost to the Department. Any signs damaged by the contractor shall be replaced at no extra cost to the Department.
- All signing, pavement marking, and barricades, shall be in accordance with Section 701 of ADOT Standard Specification for Roadway and Bridge Construction (2008), Special Provisions, the Manual on Uniform Traffic Control Devices (MUTCD) (2009 Edition), and the ADOT Supplement to the MUTCD.
- The contractor shall be responsible for the overall project sequence of all activities, in addition to those shown in the traffic control plans. The contractor shall be responsible for developing a detailed traffic control plan that is approved by ADOT two (2) weeks prior to any construction activity. See the remaining project plans for details.
- All construction signs shall have black letters on a fluorescent retroreflective orange background, except as otherwise noted.
- The retroreflective sheeting on all construction signs shall meet the minimum criteria established in Section 608 and Section 1007 of the Specifications.
- Signs shall be mounted on embedded posts, spring stands, rigid stands, or as directed by the Engineer. 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 shall be installed on spring stands at a minimum mounting height of 5 feet unless otherwise allowed by the manufacturer of the sign stand.
- 8A. TCDG Figure SA-15 Shoulder Closure shall be used for changeable message board locations

- The nearest edge or corner of a sign shall be approximately 12 feet from the nearest edge of pavement for all signs mounted on embedded posts.
- Flags shall be mounted on top of all construction signs except the "End Road Work Thank You" sign. Type "A" flashing warning lights shall be required on all night time construction signs except "End Road Work Thank You" sign.
- A Type "C" steady burning yellow light shall be mounted on every channelizing device used to delineate the edge of traveled way whenever the channelizing device will remain in place overnight or whenever the channelizing device is set during early morning hours or construction extends into the late evening hours.
- Channelizing devices shall be placed at 40 feet O.C. in tapers/curves and 80 feet O.C. in tangent sections, except as otherwise noted on the plans.
- The contractor may substitute Type I barricades for Type II barricades as long as the reflective area on the top panel of the Type I barricade is equivalent or greater than the reflective area of a Type II barricade.
- Construction signs shall not be displayed to traffic more than 24 hours prior to actual start of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered a part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after completion of the construction activities.
- All existing pavement markings in conflict with the traffic control plans shall be removed by an approved method as indicated in the Standard Specifications.
- All temporary pavement marking edge lines, lane lines and centerlines shall be either standard reflectorized paint or temporary preformed marking (Type II tape) as identified in the plans. The pavement temperature must be at least 60° F or higher when the temporary striping is applied to pavement. The contractor shall not use chip seal markers for temporary pavement markings. Payment for removing Type II tape is included in the price of Type II tape item.
- All temporary pavement marking stop bars, legends, symbols and arrows shall be preformed Type II tape or paint.

- Where stripe obliteration is necessary, it shall be accomplished by a method that is in compliance with OSHA's 29 CFT, Part 1926, lead exposure in construction; interim final rule. If lead exposure prevention measures are required, the contractor shall ensure that all of the contractor's personnel and all subcontractor's and Engineer's personnel present on the job site are notified of the activity and advised of necessary precautions to be taken to avoid contamination by lead compounds. The contractor shall submit a lead exposure prevention plan to the Engineer for review, a minimum of 48 hours prior to the start of any striping obliteration activities. Painting over striping does not constitute stripe obliteration.
- The contractor shall remove the existing pavement markers in connection with the stripe obliteration activities. There shall be no measurement or payment for the removal of existing pavement markers.
- When no longer required, temporary pavement markings shall be removed. Standard reflectorized traffic paint shall be obliterated by sandblasting or other methods approved by the Engineer.
- The contractor shall supply, maintain, and utilize changeable message boards for seven (7) consecutive days prior to beginning construction and through the direction of the project as directed by the Engineer.
- Speed limit signing is preliminary and is subject to review and change by the Engineer, as dictated by field conditions.
- New sections of completed roadway will not be opened to traffic until approved by the Engineer.
- When traffic control devices are not in use, they shall be moved at least 30 feet from the roadway.
- The contractor shall maintain a minimum of one lane open on all roadways at all times as directed by the Engineer.
- All drawings are schematic only and not to scale.
- References:

MUTCD - Part VI of the Manual on Uniform Traffic Control Devices, 2009 Edition (2nd Revision)  
TCDG - ADOT Traffic Control Design Guidelines, 2010 Edition



TEMPORARY ADVANCE TRAFFIC CONTROL LAYOUT  
The Above Signs Shall be In Place For the Duration of the Project

**SIGN LEGEND:**

1  
ROAD WORK  
1/2 MILE  
W20-1  
(36"x36")

2  
SPEED  
REDUCED  
AHEAD  
W3-5aAZ  
(36"x36")

3  
SPEED  
LIMIT  
55  
R2-1 (55)  
(30"x36")

4  
SPEED  
LIMIT  
45  
R2-1 (45)  
(30"x36")

5  
DO NOT  
PASS  
R4-1  
(30"x36")

6  
RIGHT  
SHOULDER  
CLOSED  
W21-5aR  
(36"x36")

7  
END  
ROAD WORK  
THANK YOU  
G20-2AZ  
(48"x36")

NOTES:

- Contractor to utilize reduced speed limit signs as directed by the Engineer.

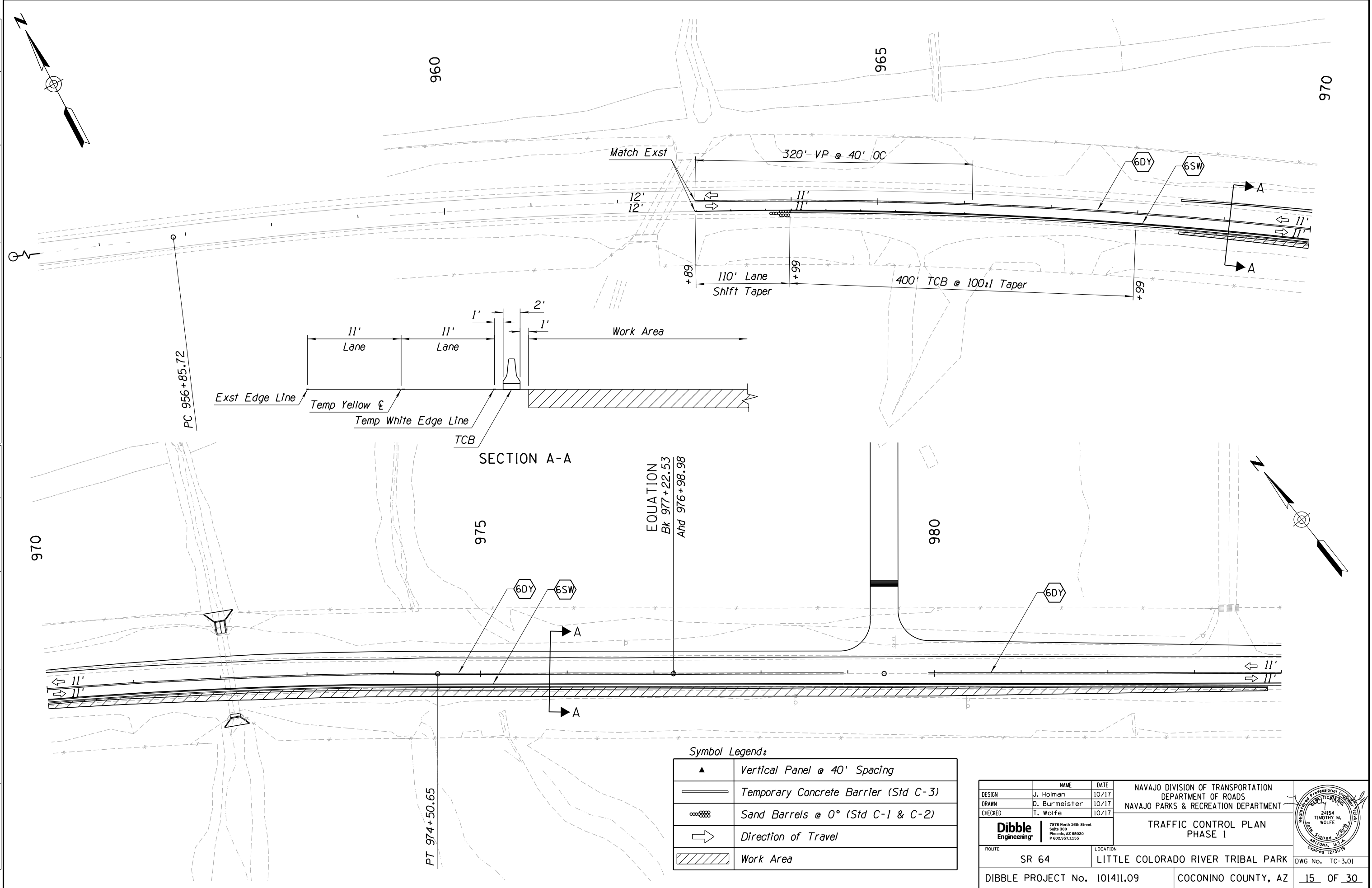
SYMBOL LEGEND:

Sign (Refer to Note 8)

Work Zone

Changeable Message Board

DESIGN	NAME	DATE	NAVAJO DIVISION OF TRANSPORTATION	
DRAWN	I. Mowry	10/17	DEPARTMENT OF ROADS	
CHECKED	D. Burmeister	10/17	NAVAJO PARKS & RECREATION DEPARTMENT	
Dibble Engineering			TRAFFIC CONTROL NOTES & ADVANCE SIGNING LAYOUT	
ROUTE SR 64		LOCATION	LITTLE COLORADO RIVER TRIBAL PARK	DWG No. TC-2.01
DIBBLE PROJECT No. 101411.09			COCONINO COUNTY, AZ	14 OF 30

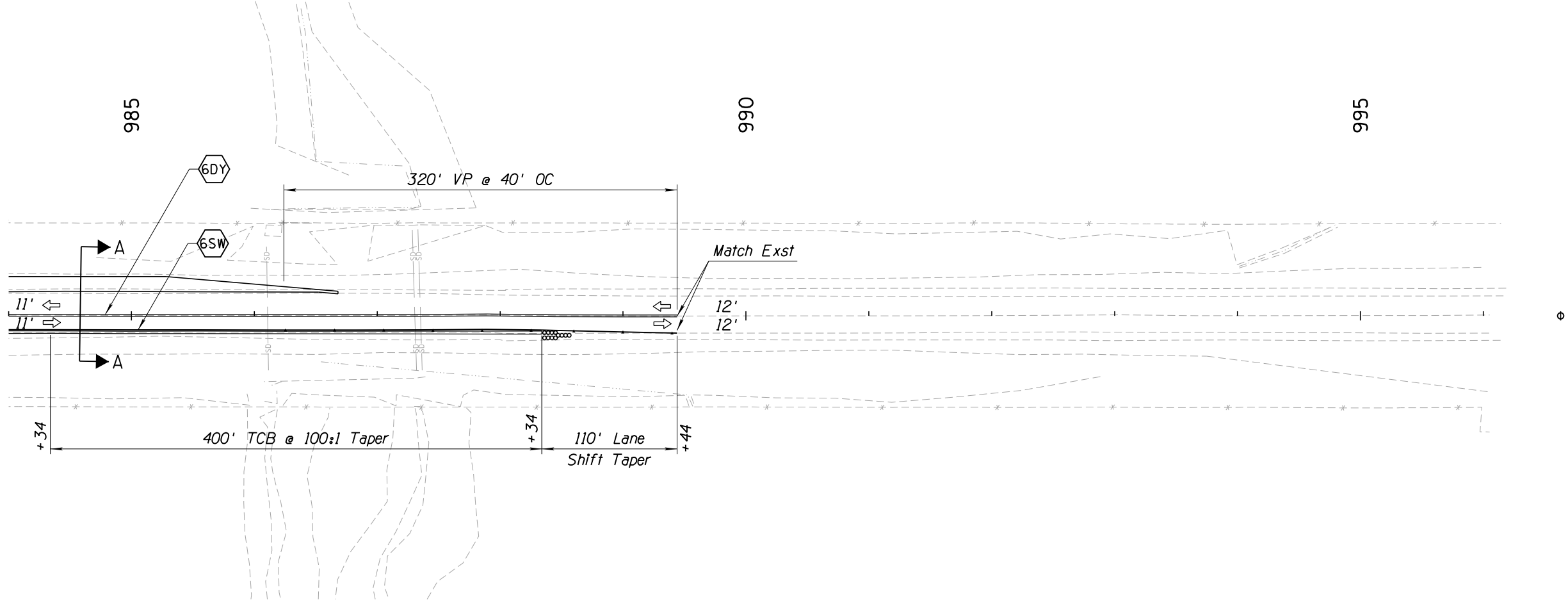


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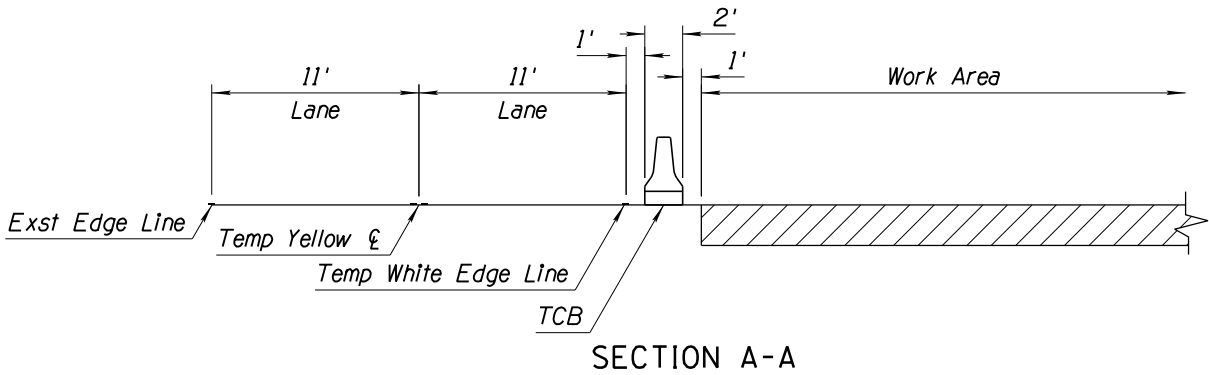
	Vertical Panel @ 40' Spacing
	Temporary Concrete Barrier (Std C-3)
	Sand Barrels @ 0° (Std C-1 & C-2)
	Direction of Travel
	Work Area

DESIGN		J. Holman	10/17	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS NAVAJO PARKS & RECREATION DEPARTMENT	
DRAWN		D. Burmeister	10/17		
CHECKED		T. Wolfe	10/17		
ROUTE		SR 64		LITTLE COLORADO RIVER TRIBAL PARK	
DIBBLE PROJECT No. 101411.09				COCONINO COUNTY, AZ	
DWG No. TC-3.01				15 OF 30	

**Dibble Engineering**  
7878 North 16th Street  
Suite 309  
Phoenix, AZ 85020  
P 602.997.1355

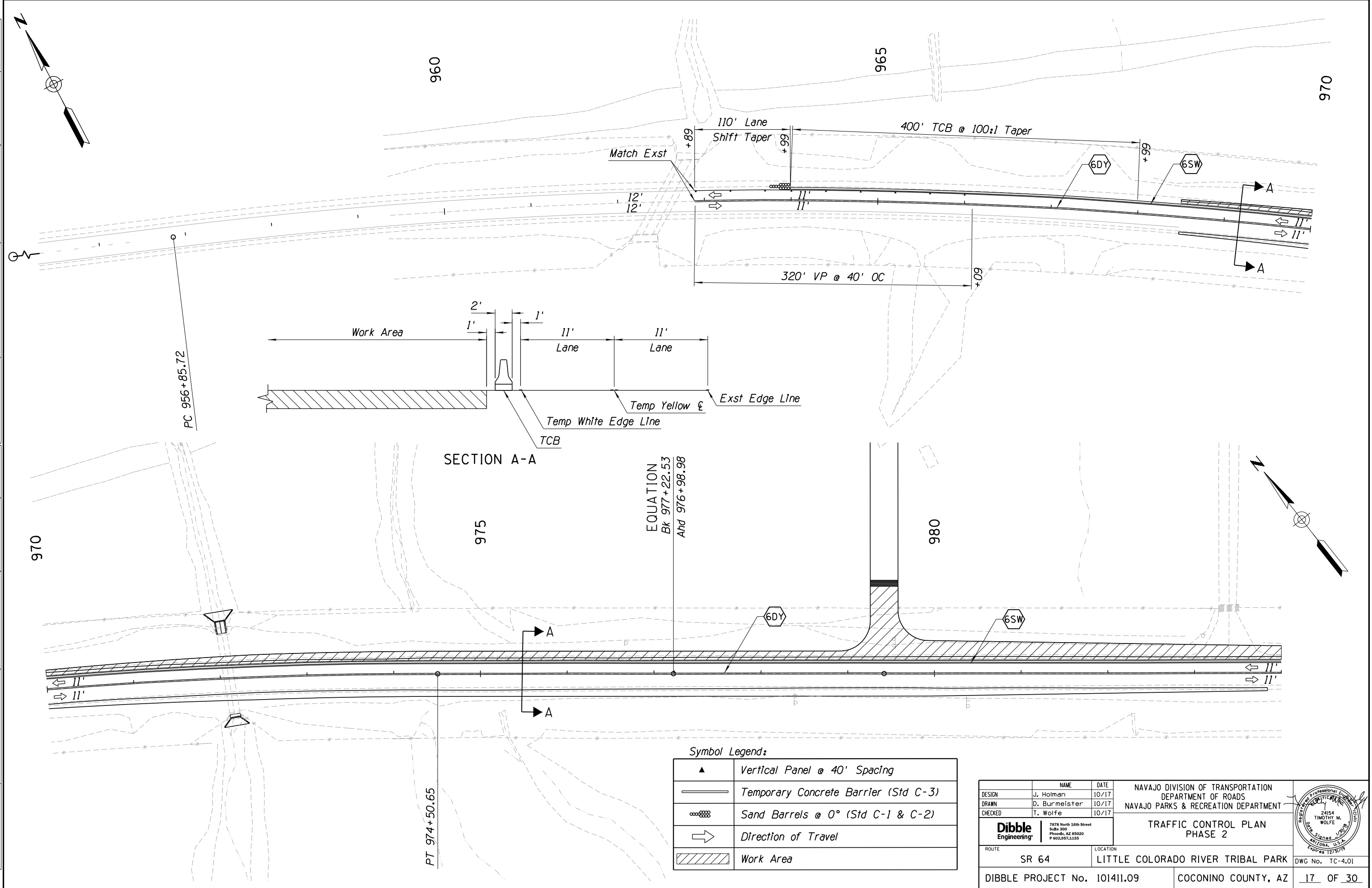


Symbol Legend:	
	Vertical Panel @ 40' Spacing
	Temporary Concrete Barrier (Std C-3)
	Sand Barrels @ 0° (Std C-1 & C-2)
	Direction of Travel
	Work Area



	NAME	DATE	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS NAVAJO PARKS & RECREATION DEPARTMENT		
DESIGN	J. Holman	10/17			
DRAWN	D. Burmeister	10/17			
CHECKED	T. Wolfe	10/17	TRAFFIC CONTROL PLAN PHASE 1		
7878 North 16th Street Suite 300 Phoenix, AZ 85020 P 602.957.1155					
ROUTE		LOCATION		DWG No.	
SR 64		LITTLE COLORADO RIVER TRIBAL PARK		TC-3.02	
DIBBLE PROJECT No. 101411.09			COCONINO COUNTY, AZ		16 OF 30

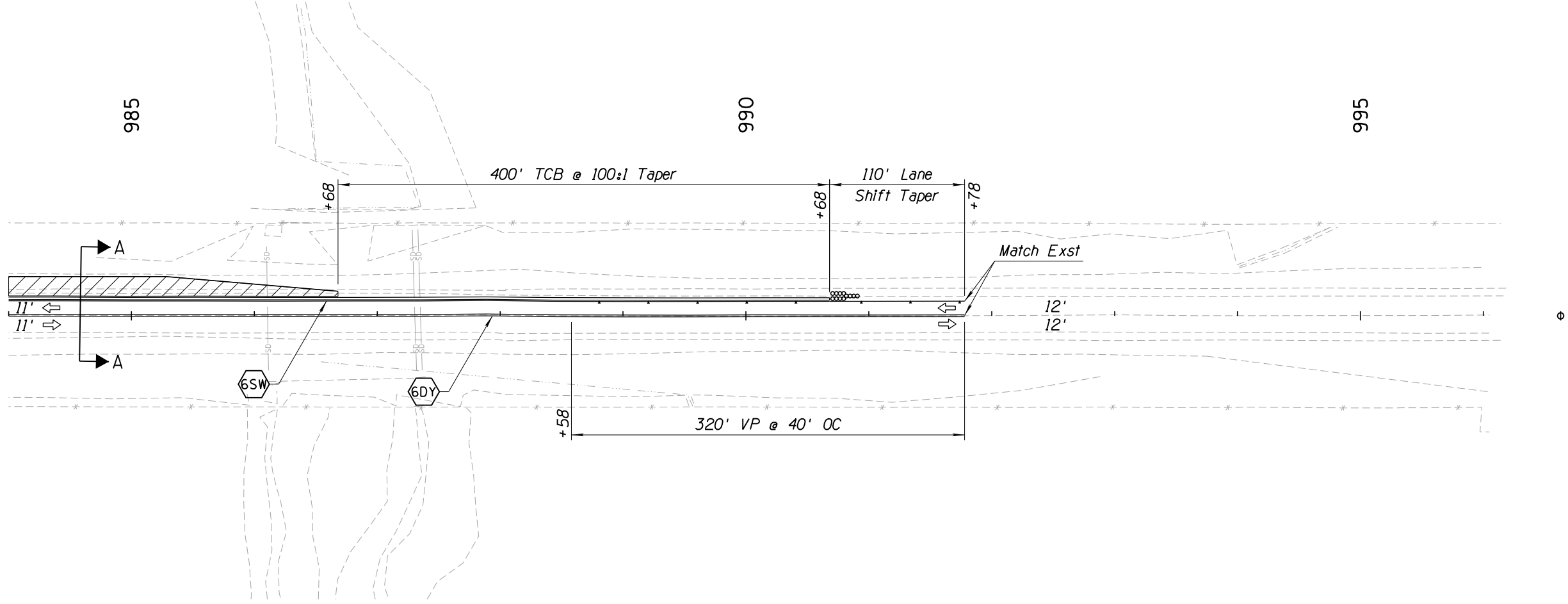




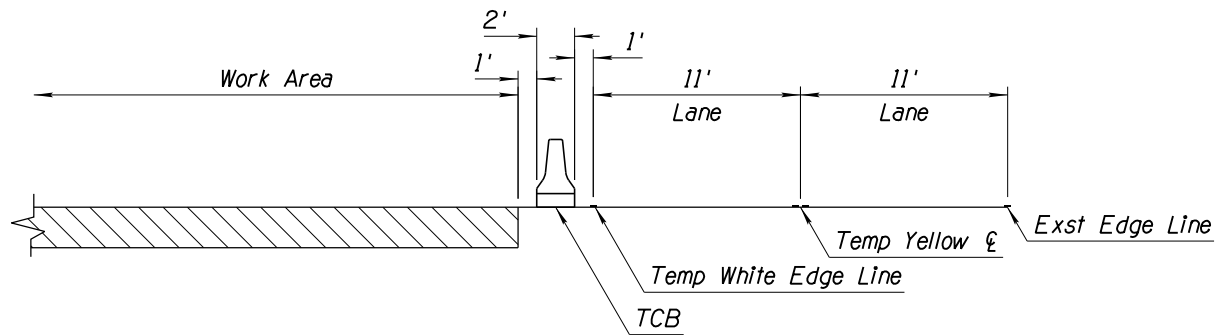
Symbol Legend:

	Vertical Panel @ 40' Spacing
	Temporary Concrete Barrier (Std C-3)
	Sand Barrels @ 0° (Std C-1 & C-2)
	Direction of Travel
	Work Area

DESIGN	J. Holman	DATE	10/17	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS NAVAJO PARKS & RECREATION DEPARTMENT	
DRAWN	D. Burmeister	DATE	10/17		
CHECKED	T. Wolfe	DATE	10/17		
ROUTE		SR 64		LITTLE COLORADO RIVER TRIBAL PARK	
DIBBLE PROJECT No. 101411.09				COCONINO COUNTY, AZ	
DIBBLE Engineering				TRAFFIC CONTROL PLAN PHASE 2	
DWG No. TC-4.01				17 OF 30	



Symbol Legend:	
	Vertical Panel @ 40' Spacing
	Temporary Concrete Barrier (Std C-3)
	Sand Barrels @ 0° (Std C-1 & C-2)
	Direction of Travel
	Work Area



SECTION A-A

DESIGN		J. Holman	10/17	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS NAVAJO PARKS & RECREATION DEPARTMENT	
DRAWN		D. Burmeister	10/17		
CHECKED		T. Wolfe	10/17		
ROUTE		SR 64		LOCATION	
				LITTLE COLORADO RIVER TRIBAL PARK	
DIBBLE PROJECT No.		101411.09		COCONINO COUNTY, AZ	
				DWG No. TC-4.02	
				18 OF 30	

Professional Engineer

24154

TIMOTHY M. WOLFE

Arizona, U.S.A.

Expires 12/31/19

NAVAJO

TRAFFIC CONTROL PLAN

PHASE 2

1/30/2018

J:\2014\101411.09 NDOT Little Co River Tribal Park\CAD\1411.09tc06.dgn

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

PAVEMENT MARKING NOTES:

- The Contractor shall remove existing pavement markers in conjunction with the construction operations. There shall be no measurement or payment for the removal of existing pavement markers.
- The dimensions shown to pavement striping are to the center of the striping or, in the case of double striping, to the center of double striping.
- Final striping shall be epoxy per ADOT Standard Specification 709. Stop bars and symbols shall be 90 mil (0.090 inches) thick alkyd extruded thermoplastic reflectorized striping placed over the existing striping, placed at a minimum of 30 calendar days after the initial striping. All other markings shall be applied at the same time.
- At the completion of the final pavement surface each day, center lines, lane lines, edge lines and stop bars shall be striped with one application of standard reflectorized traffic paint at the locations of the permanent striping. The paint shall have a maximum thickness of 15 mils wet (5 mils dry). All painted striping shall be 4 inches wide. However, each painted stop bar and solid white line shall be at least 12 inches wide.
- All reflective recessed pavement markers shall be installed so that the reflective face of each marker is facing the direction of traffic and is perpendicular to the direction of traffic flow. Type C pavement markers shall be installed so that the clear reflective face of each marker is facing approaching traffic and is perpendicular to the direction of traffic flow.
- All reflective recessed pavement markers shall have an abrasion-resistant coating on the face of the prismatic reflectors and shall conform to Details M-18 or M-19 of the ADOT Standard Drawings. They shall be installed with a bituminous adhesive which is on the ADOT Approved Products List.
- Where recessed pavement markers are placed between double yellow striping, they shall be centered in the 6 inch gap between the lines. For broken yellow striping, the markers shall be placed to align with the broken yellow striping. Where recessed pavement markers are placed along solid white striping, the nearest edge of each marker shall be offset 2 inches from the nearest edge of the striping on the side of the through lane.
- The Contractor shall clean the roadway surface to the satisfaction of the Engineer, by sweeping and air-jet blowing, immediately prior to the placement of all pavement markings. The roadway surface shall be dry and the air and pavement temperatures shall be a minimum of 55°F and rising for the placement of thermoplastic striping and shall not be less than 55°F for the installation of extruded thermoplastic.
- Pavement marking symbols and legends shall be installed in accordance with ADOT Standard Drawings.
- All final stop bars, crosswalk lines, pavement arrows, and "ONLY" legends shall be 90 mil (0.090 inch) thick, extruded thermoplastic reflectorized markings.
- It is the Contractor's responsibility to ensure that the final surface course is placed so that the striping is offset one foot clear of any construction joint, unless otherwise directed by the Engineer.
- The Contractor shall be responsible for the layout and installation of permanent pavement markings on the final surface course following control points that have been set no more than 50 feet apart along the lines to be striped.
- Sandblasting and hydroblasting are the only approved methods for obliteration. Painting over striping, removal of pavement, and overlaying pavement do not constitute stripe obliteration.
- The pavement marking drawings are schematic only and not to scale. The Contractor shall follow all dimensions and details when installing pavement markings.
- The Engineer may modify the pavement marking plans.

SIGNING NOTES:

- All signs shall be in compliance with the Manual on Uniform Traffic Control Devices (MUTCD), ADOT Signing & Marking Standard Drawings and the ADOT Traffic Engineering Manual of Approved Signs.
- The sign locations and the post lengths are approximate. The Contractor shall verify the sign locations and actual post lengths with the Engineer prior to installing signs.
- The bottom of each sign shall be at least 7 feet above the nearest edge of pavement and at least 7 feet above the ground under the sign.
- Offsets for all signs shall be measured from the edge of the roadway to the nearest edge of the sign.
- All new signs shall be fabricated of flat sheet aluminum as indicated in Section 608.
- The retroreflective sheeting on all new signs shall meet ADOT Standard Specifications.
- The retroreflective sheeting on all new signs shall meet criteria established in Section 1007 of the Standard Specifications and in Section 380 of ADOT's Traffic Policies, Guidelines and Procedures.
- All new signs shall be installed on new square tube posts with foundations as indicated in ADOT Standard Drawings.
- The Engineer may modify the signing plans.
- Shop drawings will be required.
- The Contractor shall remove existing signing where indicated in the sign summary.
- The Contractor shall preserve all roadway signs, sign supports, object markers, and milepost markers. The Contractor shall replace any signs, sign supports, and markers damaged as a result of the construction at the Contractor's expense.
- The Contractor shall inventory all signs to be removed or covered and note damaged signs to the Engineer at the time of covering or removal. All signs damaged by covering or removal shall be replaced by the Contractor at the Contractor's expense.

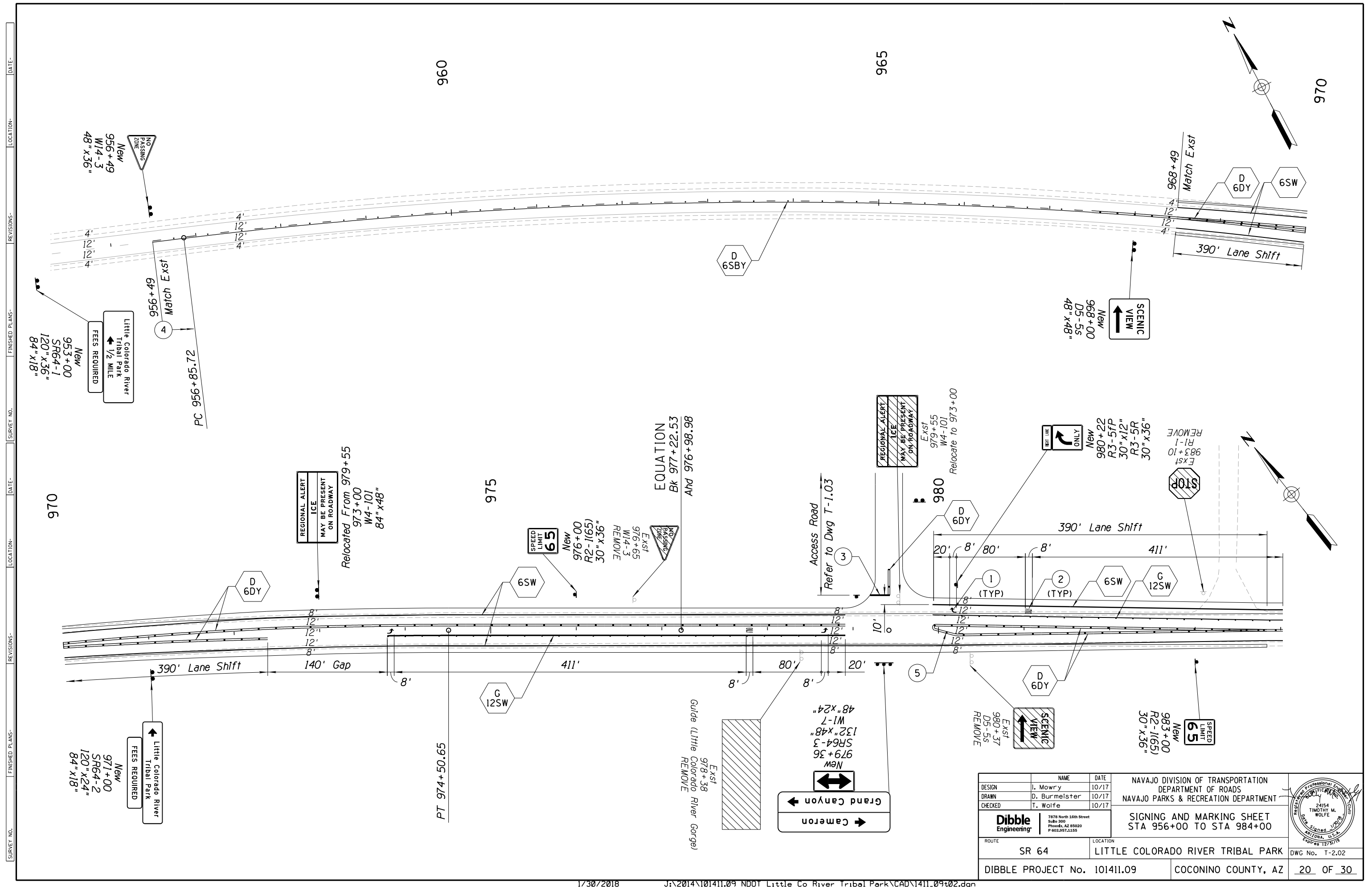
PAVEMENT MARKING LEGEND

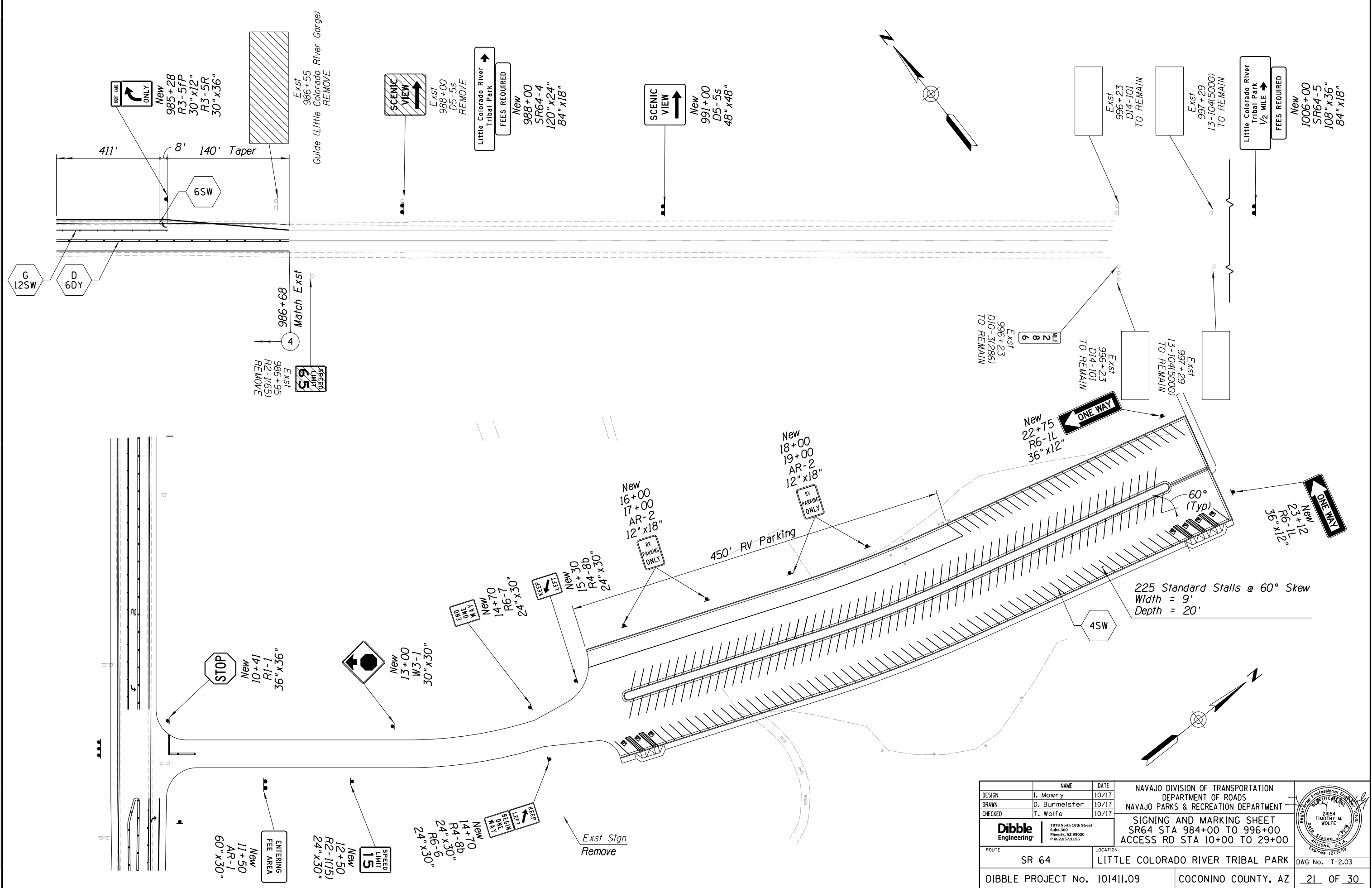
4SW		4" Solid White Stripe
D 6DY		6" Double Yellow w/ Type D RPMs @ 20' Spacing ADOT Std. Dwg. No. M-19 (9 of 9)
D 6SBY		6" Solid Yellow & 6" Yellow (10' Stripe, 30' Space) w/ Type D RPMs @ 40' Spacing ADOT Std. Dwg. No. M-19 (6 & 7 of 9)
6SW		6" Solid White Stripe
12SW		12" Solid White Stripe
G 12SW		12" Solid White Stripe w/ Type G RPMs @ 20' Spacing ADOT Std. Dwg. No. M-11

PAVEMENT MARKING KEYED NOTES

- Turn Lane Pavement Marking Symbol  
ADOT Std. Dwg. No. M-10 & M-11
- "Only" Pavement Marking Symbol  
ADOT Std. Dwg. No. M-6 & M-11
- 18" Solid White Stop Bar Stripe  
ADOT Std. Dwg. No. M-2
- Obliterate Existing Pavement Markings and Symbols As Directed by the Engineer
- Apply Type D RPMs @ 10' Spacing  
ADOT Std. Dwg. No. M-2

DESIGN		NAME	DATE	NAVAJO DIVISION OF TRANSPORTATION	
DRAWN		I. Mowry	10/17	DEPARTMENT OF ROADS	
CHECKED		D. Burmeister	10/17	NAVAJO PARKS & RECREATION DEPARTMENT	
		T. Wolfe	10/17		
Dibble Engineering		7878 North 16th Street Suite 300 Phoenix, AZ 85020 P 602.997.1355		PAVEMENT MARKING AND SIGNING NOTES	
ROUTE		SR 64		LOCATION	
				LITTLE COLORADO RIVER TRIBAL PARK	
DIBBLE PROJECT No.		101411.09		COCONINO COUNTY, AZ	
				DWG No. T-2.01	
				19 OF 30	





DATE-

LOCATION-

REVISIONS-

FINISHED PLANS-

SURVEY NO.

DATE-

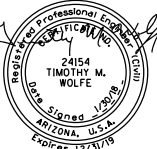
LOCATION-

REVISIONS-

FINISHED PLANS-

SURVEY NO.

DIRECTION OF TRAVEL	STATION	SIGN CODE	LEGEND	REMOVE	REMAIN	RE- INSTALL	CENTER IN MEDIAN	OFFSET FROM EDGE OF PAVMT (BY DIRECTION OF TRAVEL) (FT)	MOUNTING HEIGHT (FT)	SIGN SIZE		SIGN AREA (SF)	NO OF POSTS	POST TYPE	SLIP BASE	TOTAL POST LENGTH	REMARKS
										WIDTH (IN)	HEIGHT (IN)						
EB	953+00	SR64-1	LITTLE COLORADO RIVER TRIBAL PARK (ARROW) 1/2 MILE					16	7	120	36	30.0	3	2 1/2T	3	33.0	INSTALL
EB	+	-	FEES REQUIRED							84	18	10.5					INSTALL ON POST W/ABOVE SIGN
EB	956+49	W14-3	NO PASSING ZONE					16	7	48	36	12.0	2	2 1/2S	2	19.0	INSTALL
EB	968+00	D5-5S	SCENIC VIEW					16	7	48	48	16.0	2	2 1/2T	2	21.0	INSTALL
EB	971+00	SR64-2	LITTLE COLORADO RIVER TRIBAL PARK (ARROW)					16	7	120	24	20.0	3	2 1/2T	3	30.0	INSTALL
EB	+	-	FEES REQUIRED							84	18	10.5					INSTALL ON POST W/ABOVE SIGN
WB	973+00	W4-101	REGIONAL ALERT ICE MAY BE PRESENT ON ROADWAY			X			7	84	48	28.0	2	2 1/2T	2	21.0	RE-INSTALL
WB	976+00	R2-1(65)	SPEED LIMIT					16	7	30	36	7.5	1	2 1/2S		9.5	INSTALL
EB	976+65	W14-3	NO PASSING ZONE	X						48	36	12.0					REMOVE SIGN, POST, & FOUNDATION
EB	978+38	-	GUIDE (LITTLE COLORADO RIVER GORGE)	X						120	36	30.0					REMOVE SIGN, POST, & FOUNDATION
SB	979+36	SR64-3	CAMERON GRAND CANYON					16	7	132	48	44.0	3	2 1/2T	3	37.5	INSTALL
SB	+	W1-7	TWO DIRECTION LARGE ARROW							48	24	8.0					INSTALL ON POST W/ABOVE SIGN
WB	979+55	W4-101	REGIONAL ALERT ICE	X						84	48	28.0					REMOVE SIGN, POST, & FOUNDATION
WB	980+22	R3-5FP	RIGHT LANE					16	7	30	12	2.5	1	2 1/2T	1	10.5	INSTALL
WB	+	R3-5R	RIGHT TURN ONLY							30	36	7.5					INSTALL ON POST W/ABOVE SIGN
EB	980+37	D5-5S	SCENIC VIEW	X						48	48	16.0					REMOVE SIGN, POST, & FOUNDATION
EB	983+00	R2-1(65)	SPEED LIMIT					16	7	30	36	7.5	1	2 1/2S		9.5	INSTALL
SB	983+10	R1-1	STOP	X						36	36	9.0					REMOVE SIGN, POST, & FOUNDATION
WB	985+28	R3-5FP	RIGHT LANE					16	7	30	12	2.5	1	2 1/2T	1	10.5	INSTALL
WB	+	R3-5R	RIGHT TURN ONLY							30	36	7.5					INSTALL ON POST W/ABOVE SIGN
WB	986+55	-	GUIDE (LITTLE COLORADO RIVER GORGE)	X						120	36	30.0					REMOVE SIGN, POST, & FOUNDATION
EB	986+95	R2-1(65)	SPEED LIMIT	X						30	36	7.5					REMOVE SIGN, POST, & FOUNDATION
WB	988+00	D5-5S	SCENIC VIEW	X						48	48	16.0					REMOVE SIGN, POST, & FOUNDATION
WB	988+00	SR64-4	LITTLE COLORADO RIVER TRIBAL PARK (ARROW)					16	7	120	24	20.0	3	2 1/2T	3	30.0	INSTALL
WB	+	-	FEES REQUIRED							84	18	10.5					INSTALL ON POST W/ABOVE SIGN
WB	991+00	D5-5S	SCENIC VIEW					16	7	48	48	16.0	2	2 1/2T	2	21.0	INSTALL
WB	996+23	D14-101	ADOPT A HIGHWAY		X					24	12	2.0					TO REMAIN
EB	996+23	D10-3(286)	MILE POST		X					24	12	2.0					TO REMAIN
EB	996+23	D14-101	ADOPT A HIGHWAY		X					24	12	2.0					TO REMAIN
EB	997+29	I3-104 (5000)	ELEVATION		X					36	24	6.0					TO REMAIN
WB	997+29	I3-104 (5000)	ELEVATION		X					36	24	6.0					TO REMAIN
WB	1006+00	SR64-5	LITTLE COLORADO RIVER TRIBAL PARK 1/2 MILE (ARROW)					16	7	108	36	27.0	3	2 1/2T	3	33.0	INSTALL
WB	+	-	FEES REQUIRED							84	18	10.5					INSTALL ON POST W/ABOVE SIGN
SB	10+41	R1-1	STOP					16	7	36	36	9.0	1	2 1/2T	1	9.5	INSTALL
NB	11+50	AR-1	ENTERING FEE AREA					16	7	60	30	12.5	2	2 1/2S	2	18.0	INSTALL
NB	12+50	R2-1(15)	SPEED LIMIT					16	7	24	30	5.0	1	2 1/2S		9.0	INSTALL
SB	13+00	W3-1	STOP AHEAD					16	7	30	30	6.3	1	2 1/2S		9.0	INSTALL
NB	14+70	R4-8b	KEEP LEFT					16	7	24	30	5.0	1	2 1/2T	1	11.5	INSTALL
NB	+	R6-6	BEGIN ONE WAY							24	30	5.0					INSTALL ON POST W/ABOVE SIGN
SB	14+70	R6-7	END ONE WAY					16	7	24	30	5.0	1	2 1/2S		9.0	INSTALL
SB	15+30	R4-8B	KEEP LEFT					16	7	24	30	5.0	1	2 1/2S		9.0	INSTALL
EB	16+00	AR-2	RV PARKING ONLY					16	7	12	18	1.5	1	2S		8.0	INSTALL
EB	17+00	AR-2	RV PARKING ONLY					16	7	12	18	1.5	1	2S		8.0	INSTALL
EB	18+00	AR-2	RV PARKING ONLY					16	7	12	18	1.5	1	2S		8.0	INSTALL
EB	19+00	AR-2	RV PARKING ONLY					16	7	12	18	1.5	1	2S		8.0	INSTALL
WB	22+75	R6-1L	ONE WAY					16	7	36	12	3.0	1	2S		7.5	INSTALL
NB	23+12	R6-1L	ONE WAY					16	7	36	12	3.0	1	2S		7.5	INSTALL

		NAME	DATE	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS NAVAJO PARKS & RECREATION DEPARTMENT		
DESIGN	I. Mowry		10/17			
DRAWN	D. Burmeister		10/17			
CHECKED	T. Wolfe		10/17			
ROUTE		SR 64		LOCATION		LITTLE COLORADO RIVER TRIBAL PARK
DIBBLE PROJECT No. 101411.09				COCONINO COUNTY, AZ		DWG No. T-3.01
DIBBLE PROJECT No. 101411.09				COCONINO COUNTY, AZ		22 OF 30

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

I. PROJECT DESCRIPTION

- A. Owner Name, Address and IRS Employee Identification Number (EIN):
- Arizona Department of Transportation  
205 South 17th Avenue  
Phoenix, Arizona 85007-3213
- IRS Employee Identification Number (EIN) for ADOT: 86-6004791
- B. Project TRACS Number: N/A
- C. Project Location: Little Colorado River Tribal Park  
City: Cameron County: Coconino
- Beginning Latitude (NAD 83): 35°55'7"N  
Beginning Longitude (NAD 83): 111°34'7"W  
Ending Latitude (NAD 83): 35°54'57"N  
Ending Longitude (NAD 83): 111°33'50"W
- To obtain the project latitude/longitude data, refer to the EPA's eNOI System (Central Data Exchange) : <https://cdx.epa.gov/> or Flash Earth Web Link below (Bing Maps with labels) : <http://www.flashearth.com/>
- D. Project Description:
- Relocate park access road, widen highway and provide turn lanes.

II. HYDROLOGIC INFORMATION

- A. Project Size: 0.60  
Length (Mi.)  
Area (Ac.) 10.91
- B. Area to be Graded (Ac.) \*: 3.06
- \* Blading of the shoulder build-up area is considered as grading and ground disturbance and should be covered by stormwater and/or other environmental regulations.
- C. Percentage of the site that is impervious before and after construction: 15.6%  
Percentage before Construction:  
Percentage after Construction: 20.0%
- D. Receiving Water(s), refer to the AZ Department of Water Resources Web Link below (USGS Topo): <https://qlsweb.azwater.gov/WellRegistry/Default.aspx>  
Little Colorado River

III. PRESERVATION OF EXISTING VEGETATION

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

IV. SOIL STABILIZATION MEASURES

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

V. MEASURES TO CONTROL EROSION AND SEDIMENT

- A. Temporary Erosion and Sediment Controls: (Refer to the SWPPP Site Plan and Specifications)
- Erosion Control Matings  
Temporary Diversion Dikes  
X Check Dams  
Rock Inlet/Outlet Protection  
Sediment Control Berms  
Silt Fences  
X Wattles (Excelsior/Straw)  
Excelsior Logs / Sediment Logs  
Seeding (Class II with mulch)  
Others Describe:
- B. Permanent Erosion and Sediment Controls and Post-construction Storm Water Management Measures: (Refer to SWPPP Site Plan and Specifications)
- Crown Ditch/Dike  
X Rock Protection  
Rock Riprap Channel Lining  
Sediment Basin  
Embankment Curb  
X Spillways and Downdrains  
Minibenching  
X Seeding established as a perennial vegetative cover with a density of 70% of the native background vegetative cover.  
Others Describe:

VI. MAINTENANCE AND INSPECTIONS

- A. Frequency of Inspections:
- Regular Inspection Frequency:
- At least once every 7 calendar days (weekly), OR  
X At least 14 calendar days (biweekly) and within 24 hours of a rainfall of 0.25 in. or greater.
- Impaired (Sensitive) Waters Inspection:
- Every 7 calendar days and within 24 hours of a rainfall of 0.25 in. or greater.

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

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

PART 2 - To be completed by ADOT & CONTRACTOR

Refer to: <http://cfpub.epa.gov/npdes/stormwater/msgpenol.cfm>  
<http://cfpub.epa.gov/npdes/stormwater/swppp.cfm#guide>

I. SCHEDULE OF MAJOR ACTIVITIES

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

II. INVENTORY OF POLLUTANTS

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

III. POLLUTION CONTROL MEASURES

- A. Other Best Management Practices:
- Wind Erosion and Dust Control  
Solid Waste Management  
Equipment Maintenance Procedures  
Designated Concrete Washout Areas (Leak proof pits/containers are included.)  
Stabilized Construction Entrance  
Protected Chemical and Material Storage Area  
Other, Describe:

IV. SPILL PREVENTION AND RESPONSE

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

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

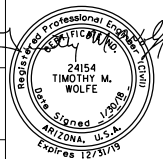
- A. This Storm Water Pollution Prevention Plan (SWPPP) has been prepared in accordance with the latest updated version of ADOT's EROSION AND POLLUTION CONTROL MANUAL FOR HIGHWAY DESIGN AND CONSTRUCTION, published by ADOT Intermodal Transportation Division.
- SWPPP is in compliance with other Federal,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

VI. POLLUTION PREVENTION PLAN CERTIFICATION

- A. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Applies to VI. B., C., and D)
- B. The operator/contractor as defined in NPDES should sign the SWPPP in accordance with CGP Part 7.2.15 and retain the SWPPP on-site at the construction site or other location easily accessible during normal business hours.  
Signature: (operator/contractor)  
Date:  
Name:  
Title:  
ADOT District:
- C. ADOT Resident Engineer  
Signature: (owner)  
Date:  
Name:  
Title:  
ADOT District:
- D. MUNICIPALITY for Municipal Separate Storm Sewer System (MS4)  
Signature:  
Date:  
Name:  
Title:  
Municipality:

VII. OTHER REQUIREMENTS

- A. A copy of the General Permit and NOI should be attached.
- B. A copy of the page from the environmental clearance for the project that discusses endangered or threatened species should be attached.
- C. Use the process in NPDES General Permit Appendix C (ESA Review Procedures) to determine eligibility prior to submittal of the Notice of Intent (NOI) for Endangered and Threatened Species and Critical Habit Protection.
- D. A seven-day waiting/review period between NOI submittal and authorization to begin construction will be used by U.S. Fish and Wildlife Service and National Marine Fisheries Service to screen proposed construction activities for potential impacts on endangered species.

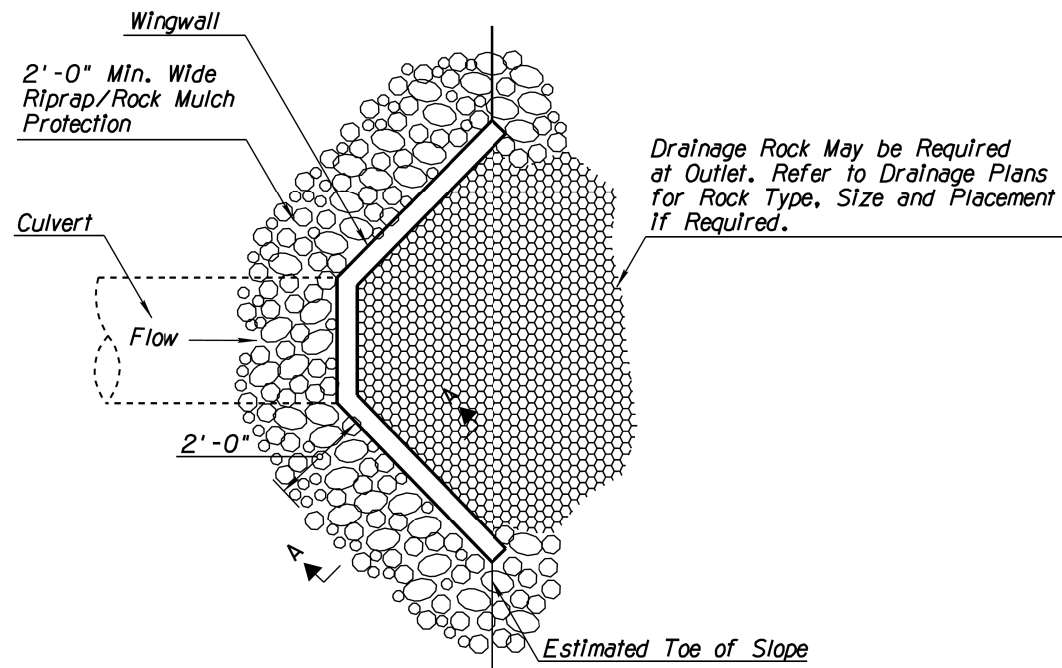
DESIGN	J. Holman	10/17	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS NAVAJO PARKS & RECREATION DEPARTMENT	
DRAWN	D. Burmeister	10/17		
CHECKED	T. Wolfe	10/17		
<b>Dibble Engineering</b> 7878 North 16th Street Suite 300 Phoenix, AZ 85020 P 602.997.1355			NPDES SWPPP INDEX SHEET	
ROUTE SR 64		LOCATION LITTLE COLORADO RIVER TRIBAL PARK		DWG No. EC-1.01
DIBBLE PROJECT No. 101411.09			COCONINO COUNTY, AZ	23 OF 30

[illegible]

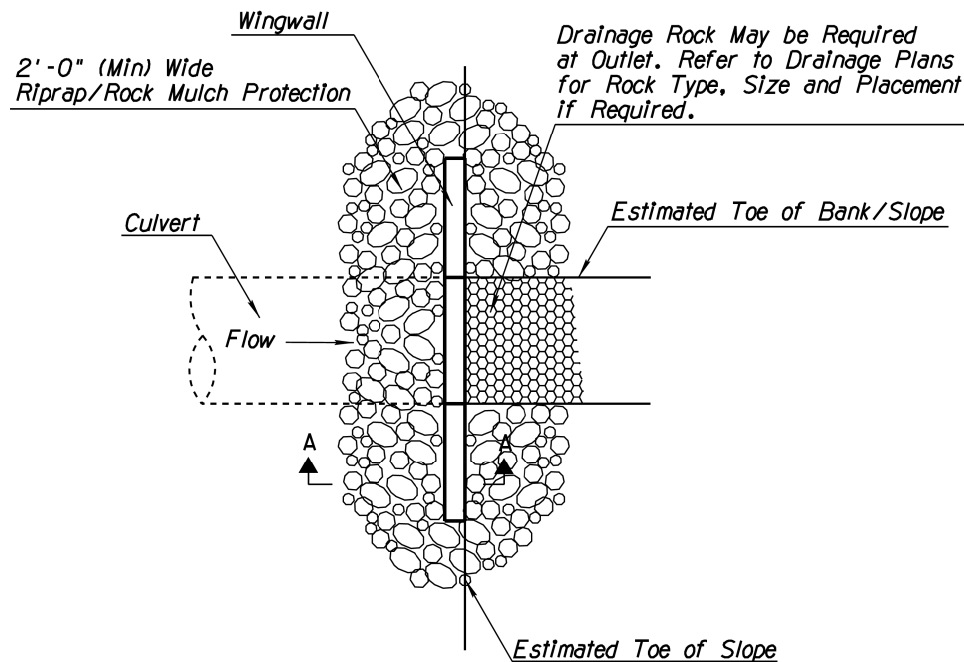
1/30/2018 J:\2014\101411.09 NDOT Little Co River Tribal Park\CAD\1411\_09e02.dgn



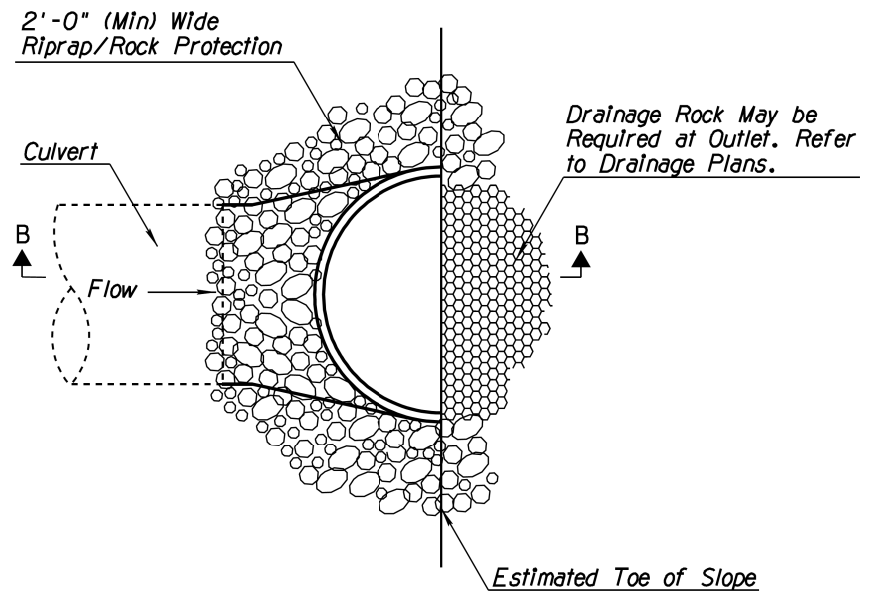
DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.



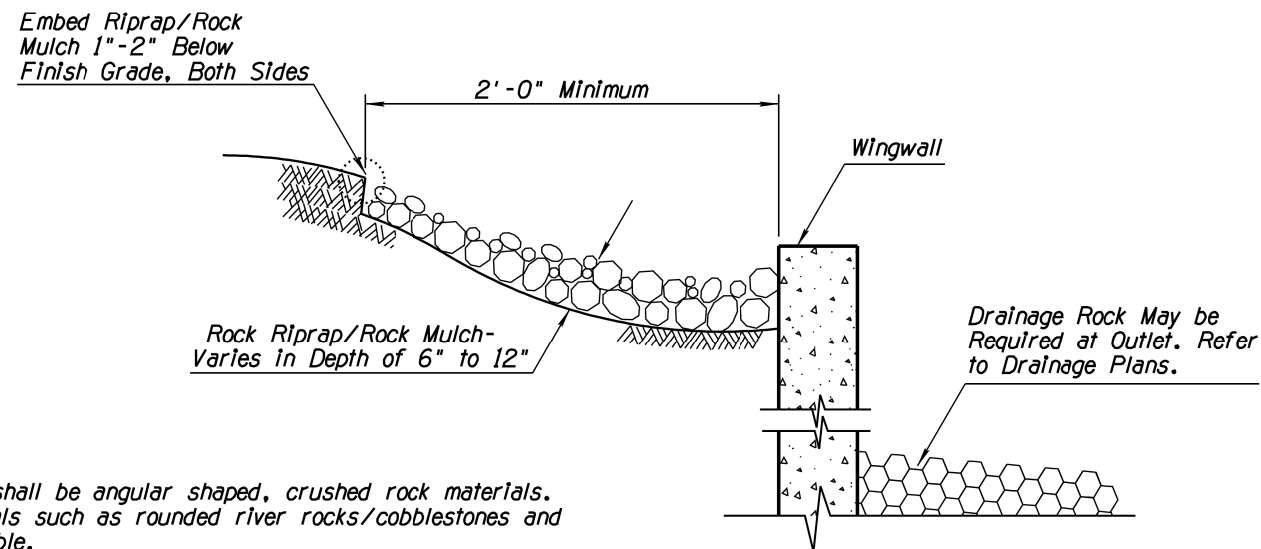
ANGLED HEADWALL  
PLAN VIEW (NTS)



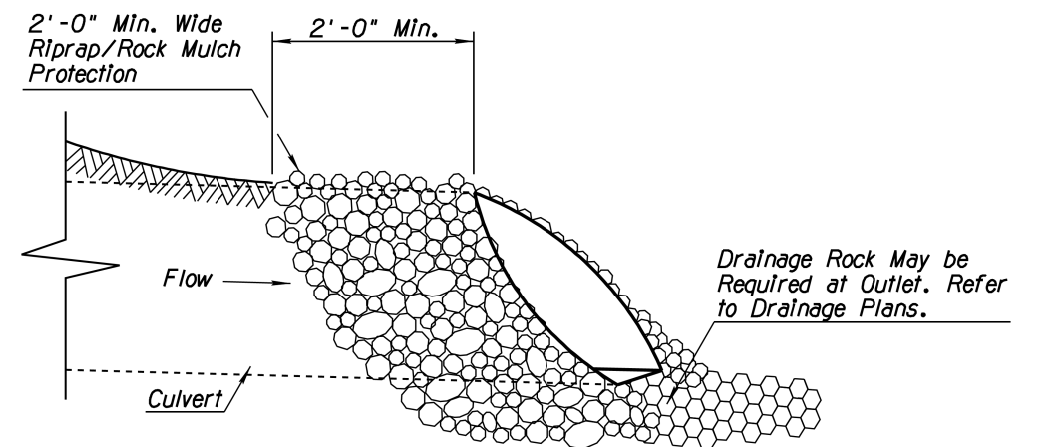
FLUSH HEADWALL  
PLAN VIEW (NTS)



FLARED END  
PLAN VIEW (NTS)



WINGWALL  
SECTION A-A (NTS)



FLARED END  
SECTION B-B (NTS)

NOTES:

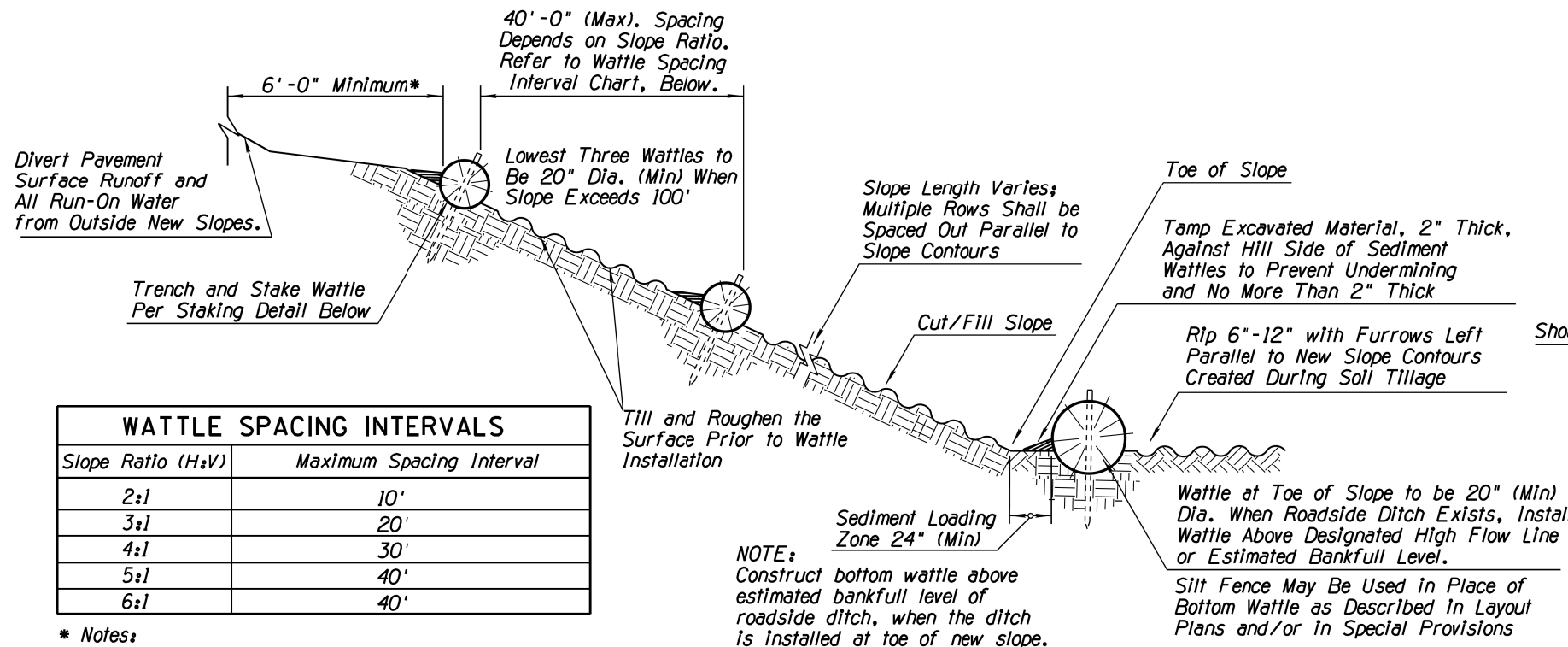
1. Rock Riprap/Rock Much shall be angular shaped, crushed rock materials. Natural river-run materials such as rounded river rocks/cobblestones and pebbles are NOT acceptable.
2. Rock Riprap/Rock Mulch within the traffic Clear Zone shall conform to the requirements of Section 810-2.03 Sieve Size Gradation A and/or Gradation C, and Section 913 of the Standard Specifications.
3. Embed rock within traffic recovery area/clear zone into the finished grade so that any portion of the rock above the grade will be less than 4" in height.
4. The installation and maintenance of Rock Protection BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities. Rock Protection BMPs shall be installed and maintained to carry the stormwater of at least 2-year, 24-hour events.
5. Make field adjustments and corrections of Rock Protection BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
6. The Rock Protection BMP's pay/bid item shall include all materials used for this BMP: all ground preparation, furnishing, installing, maintaining as well as returning the area to an acceptable condition as approved by the Engineer.
7. Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.

# DETAIL ES1

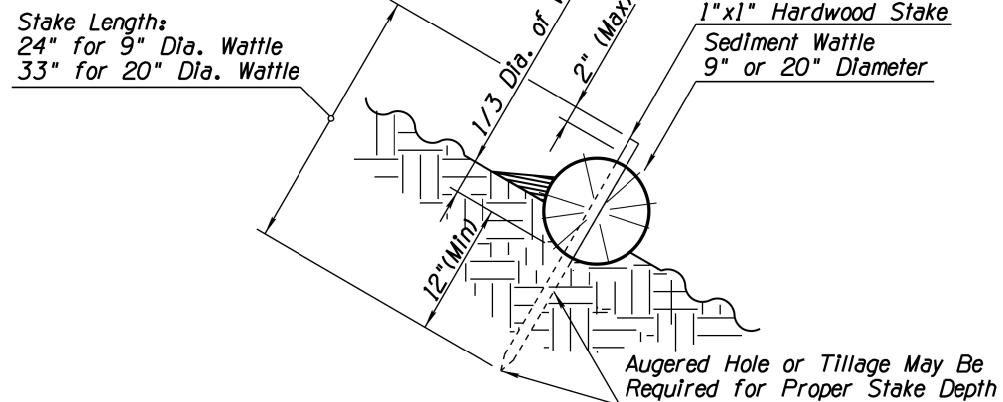
ROCK PROTECTION FOR INLETS,  
OUTLETS AND HEADWALL TRANSITION

DESIGN	NAME	DATE	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS NAVAJO PARKS & RECREATION DEPARTMENT
DRAWN	J. Holman	10/17	
CHECKED	D. Burmeister	10/17	
	T. Wolfe	10/17	
Dibble Engineering			EROSION CONTROL DETAILS
ROUTE SR 64			LITTLE COLORADO RIVER TRIBAL PARK
DIBBLE PROJECT No. 101411.09			COCONINO COUNTY, AZ
			DWG No. EC-1.03
			25 OF 30

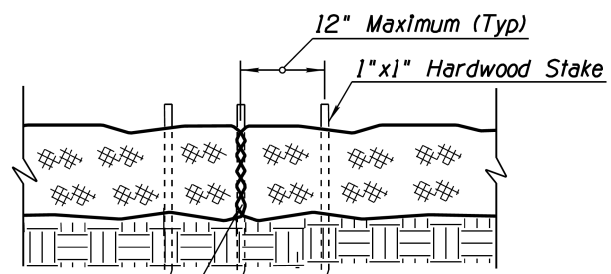
DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO. DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO.



### SECTION (NTS)

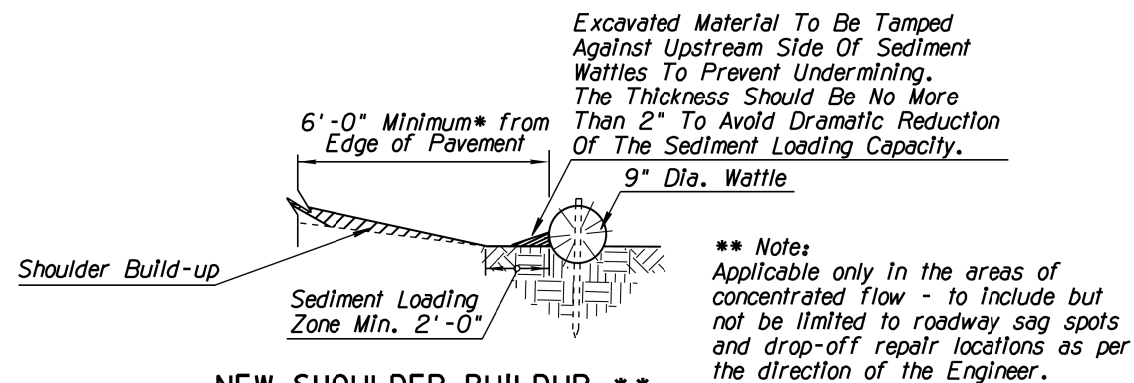


### SEDIMENT WATTLE STAKING DETAIL (NTS)



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

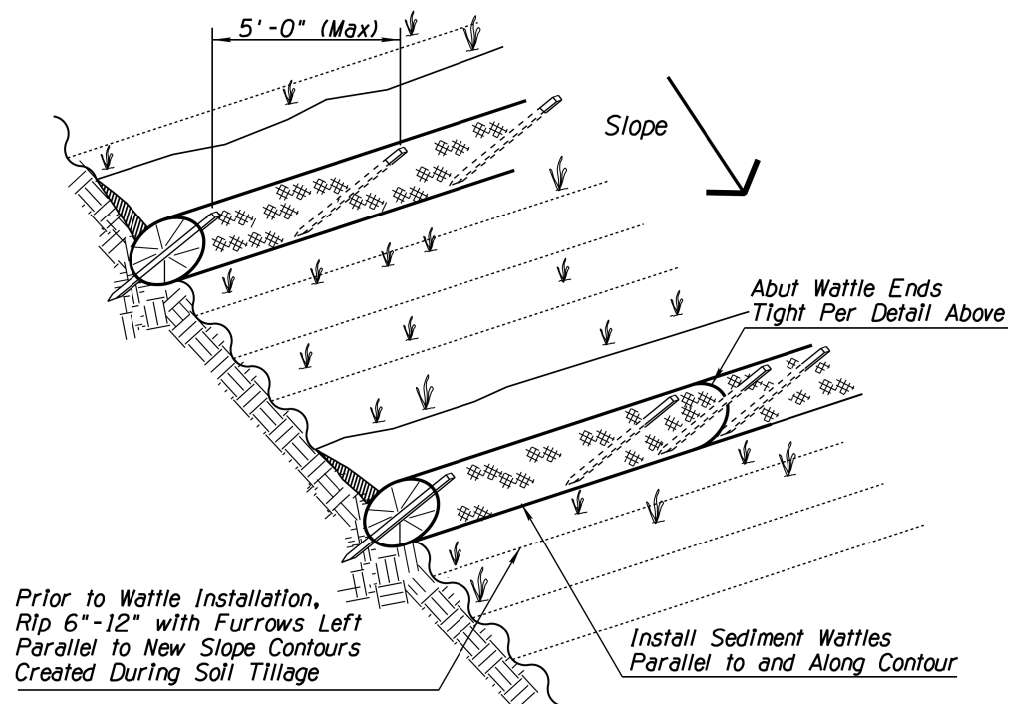
### SEDIMENT WATTLE OVERLAP (NTS)



### NEW SHOULDER BUILDUP \*\* PROTECTION SECTION (NTS)

#### NOTES:

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

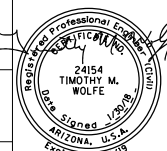


### SEDIMENT WATTLE LAYOUT (NTS)

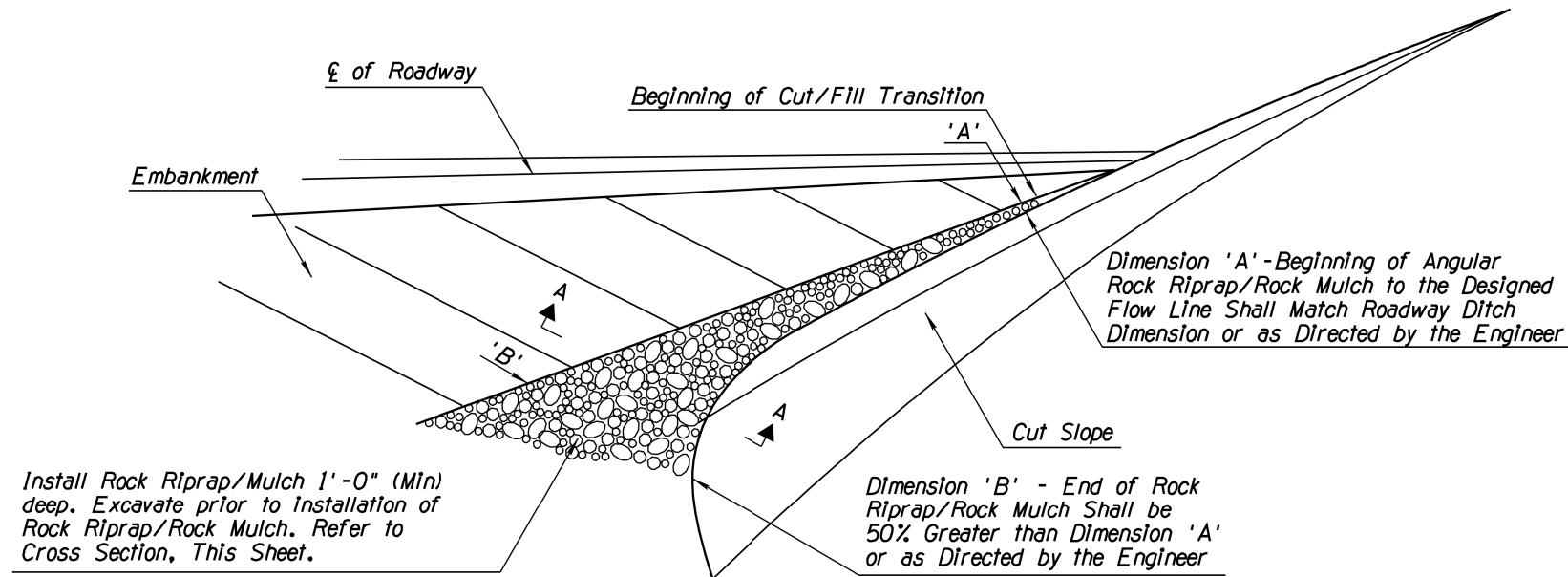
## DETAIL ES2

### SEDIMENT WATTLE

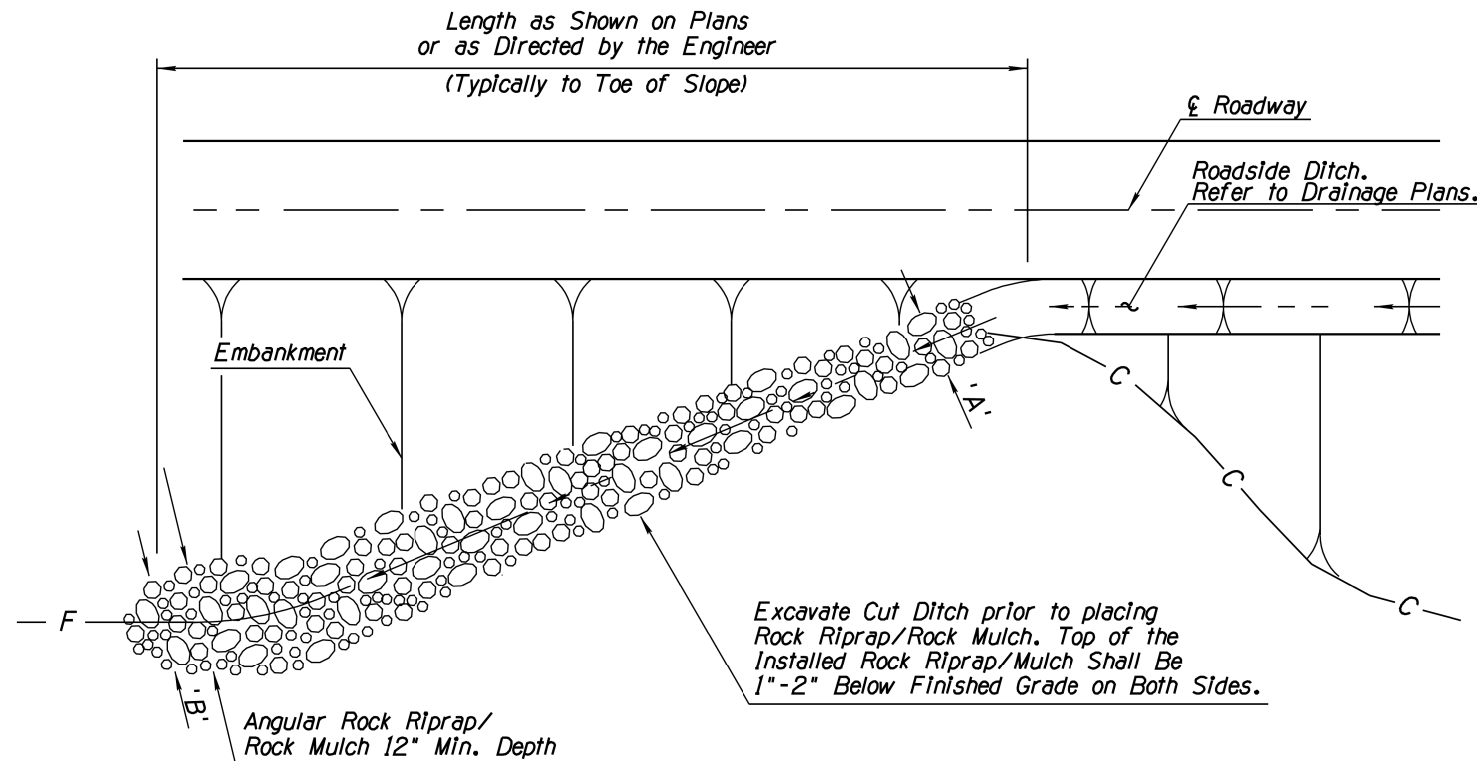
DESIGN	J. Holman	DATE	10/17	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS NAVAJO PARKS & RECREATION DEPARTMENT
DRAWN	D. Burmeister	DATE	10/17	
CHECKED	T. Wolfe	DATE	10/17	
Dibble Engineering 7878 North 16th Street Suite 300 Phoenix, AZ 85020 P 602.997.1355				EROSION CONTROL DETAILS
ROUTE		LOCATION		DWG No. EC-1.04
SR 64		LITTLE COLORADO RIVER TRIBAL PARK		
DIBBLE PROJECT No. 101411.09			COCONINO COUNTY, AZ	26 OF 30



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

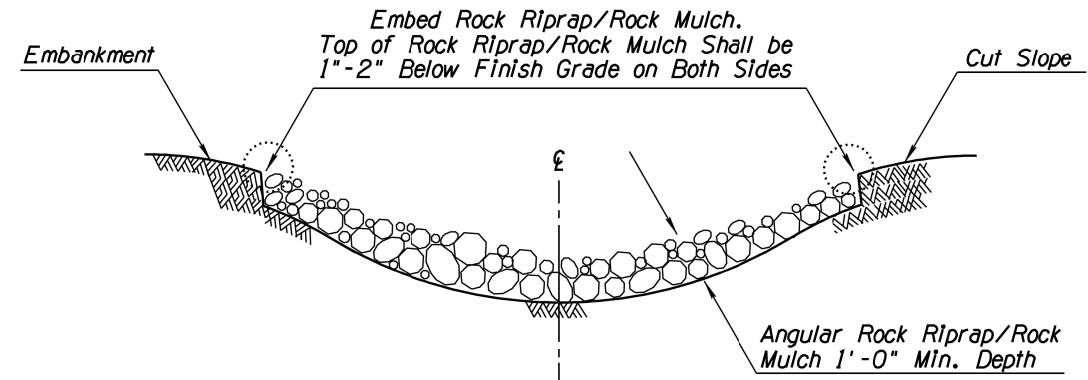


PERSPECTIVE (NTS)



PLAN VIEW (NTS)

**NOTE:**  
Cut and fill transition shall be placed as shown on plans or where the length of the roadside ditch is 50 feet or greater.  
Field adjust per direction of Engineer.



ROCK RIPRAP/ROCK MULCH EMBEDMENT  
SECTION A-A (NTS)

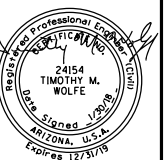
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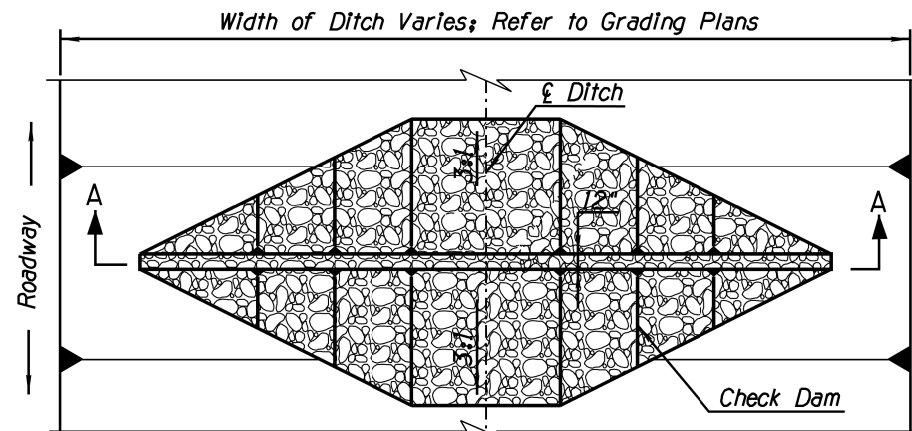
1. Rock Riprap/Rock Mulch shall be angular shaped, crushed rock materials. Natural river-run materials such as rounded river rocks/cobblestones and pebbles are NOT acceptable.
2. Rock Riprap/Rock Mulch within the traffic Clear Zone/Recovery Area shall conform to the requirements of Section 810-2.03 Sieve Size Gradation A and/or Gradation C, and Section 913 of the Standard Specifications and these special provisions.
3. Install Rock Riprap/Rock Mulch to a minimum depth of 12" for Channel Lining and Cut/Fill Transition. Excavate ground surface to a depth that the top of Rock is 1"-2" below the grade of the ditch.
4. Embed any rock into the finished grade so that any portion of the Rock is less than 4" above grade, within traffic recovery area/clear zone.
5. The installation and maintenance of Rock Protection BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities. Rock Protection BMPs shall be installed and maintained to carry the stormwater of at least 2-year, 24-hour events.
6. Make field adjustments and corrections of Rock Protection BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
7. Make field adjustments to ensure the top surface of Rock Riprap/Rock Mulch is graded lower than the surrounding finished grade to collect surface stormwater runoff and concentrated flow.
8. The Rock Protection BMP's pay/bid item shall include all materials used for this BMP: all ground preparation, furnishing, installing, maintaining, as well as returning the area to an acceptable condition as approved by the Engineer.
9. Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.

# DETAIL ES3

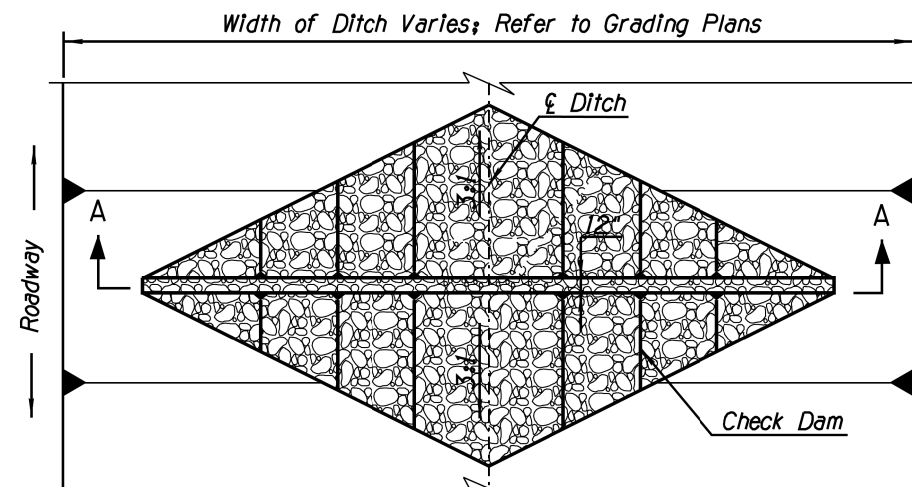
## ROCK PROTECTION FOR CUT & FILL TRANSITION AND CHANNEL LINING

DESIGN	J. Holman	DATE	10/17	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS
DRAWN	D. Burmeister	10/17		NAVAJO PARKS & RECREATION DEPARTMENT
CHECKED	T. Wolfe	10/17		
<b>Dibble Engineering</b>		7878 North 16th Street Suite 300 Phoenix, AZ 85020 P 602.997.1355		EROSION CONTROL DETAILS
ROUTE	SR 64	LOCATION	LITTLE COLORADO RIVER TRIBAL PARK	DWG No. EC-1.05
DIBBLE PROJECT No. 101411.09		COCONINO COUNTY, AZ		27 OF 30

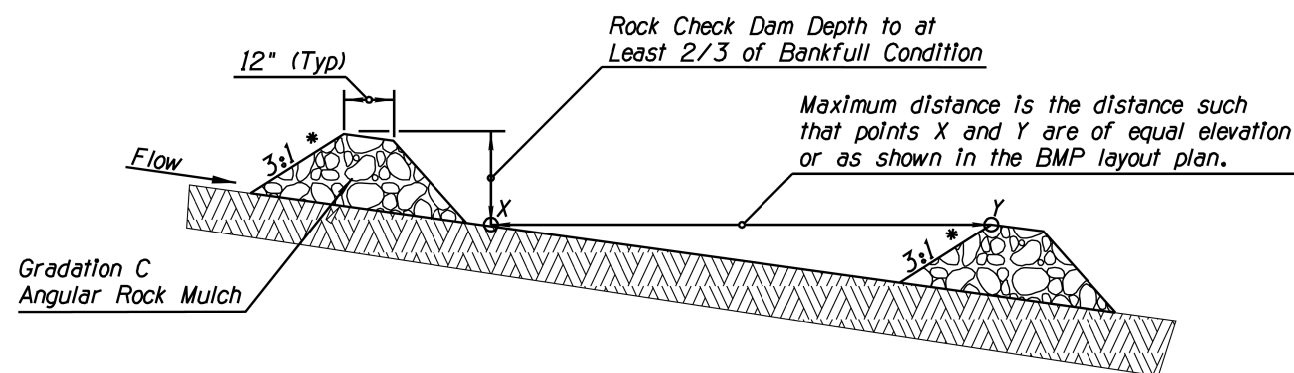




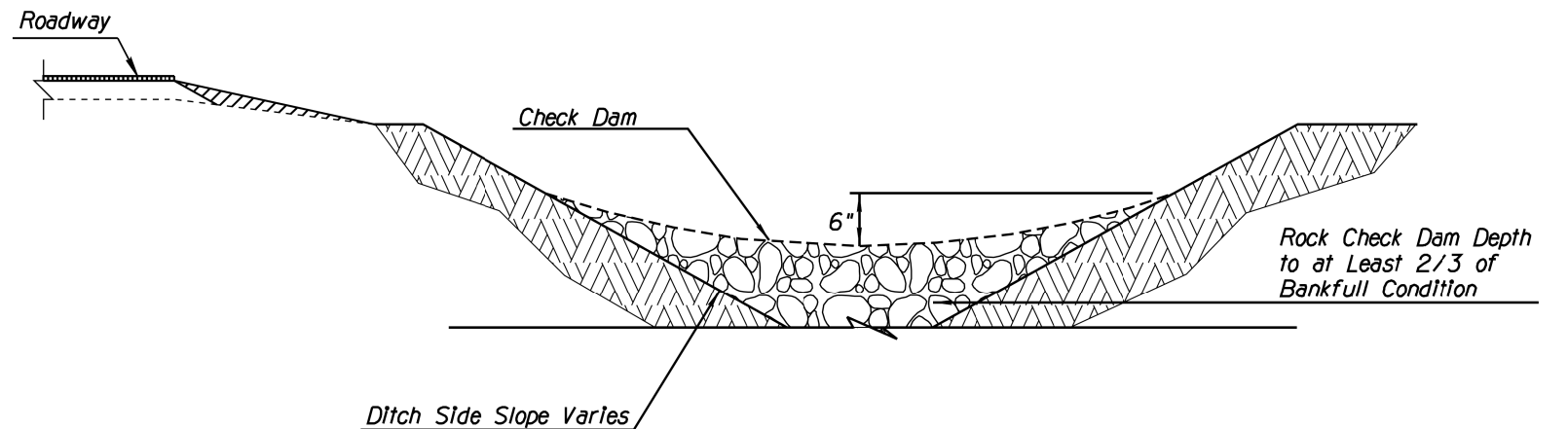
TRAPEZOIDAL DITCH PLAN (NTS)



V-DITCH PLAN (NTS)



ELEVATION ALONG DITCH SLOPE (NTS)



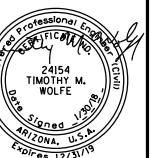
SECTION A-A  
TRAPEZOIDAL- OR V-DITCH  
(NTS)

NOTES:

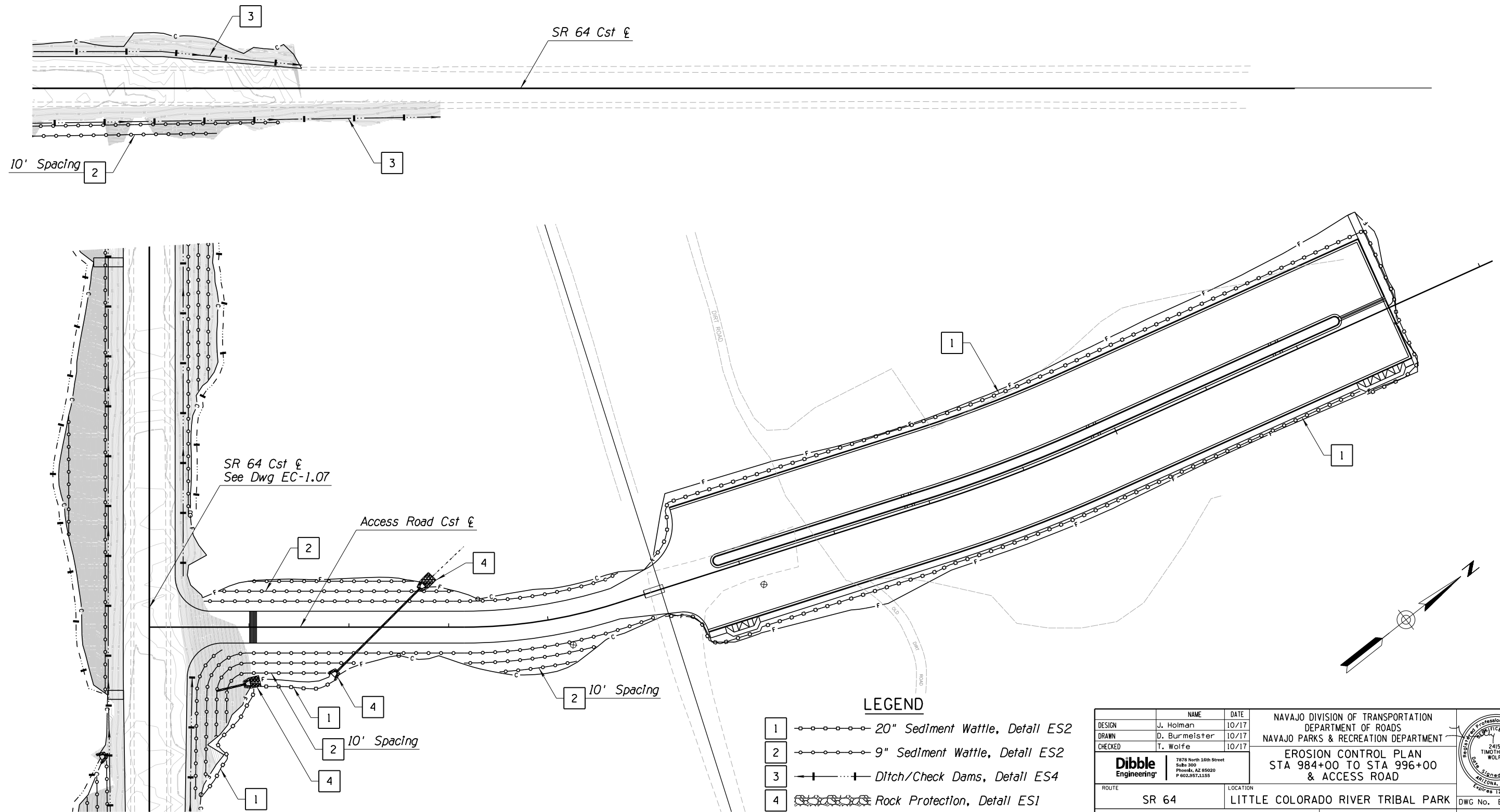
1. Construct Rock Check Dams with angular-shaped Gradation C Rock Mulch as defined in Section 810-2.03 of the Standard Specifications and these special provisions. Natural river-run materials such as rounded river rocks/cobblestones and pebbles are NOT acceptable.
2. \* Slope shall be 1(V) : 6(H) or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

DETAIL **ES4**  
ROCK CHECK DAM

DESIGN	J. Holman	DATE	10/17	NAVAJO DIVISION OF TRANSPORTATION DEPARTMENT OF ROADS
DRAWN	D. Burmeister	10/17		NAVAJO PARKS & RECREATION DEPARTMENT
CHECKED	T. Wolfe	10/17		
<b>Dibble Engineering</b>		7878 North 16th Street Suite 300 Phoenix, AZ 85020 P 602.997.1355		EROSION CONTROL DETAILS
ROUTE	SR 64	LOCATION	LITTLE COLORADO RIVER TRIBAL PARK	DWG No. EC-1.06
DIBBLE PROJECT No. 101411.09		COCONINO COUNTY, AZ		28 OF 30







ROUTE		SR 64	LOCATION	LITTLE COLORADO RIVER TRIBAL PARK	DWG No.	EC-1.08
DIBBLE PROJECT No.		101411.09	COCONINO COUNTY, AZ		30	OF 30

DESIGN	J. Holman	10/17
DRAWN	D. Burmeister	10/17
CHECKED	T. Wolfe	10/17

NAVAJO DIVISION OF TRANSPORTATION	
DEPARTMENT OF ROADS	
NAVAJO PARKS & RECREATION DEPARTMENT	
EROSION CONTROL PLAN	
STA 984+00 TO STA 996+00	
& ACCESS ROAD	

Dibble Engineering	
7878 North 16th Street	
Suite 300	
Phoenix, AZ 85020	
P 602.997.1355	

NAVAJO DIVISION OF TRANSPORTATION	
DEPARTMENT OF ROADS	
NAVAJO PARKS & RECREATION DEPARTMENT	
EROSION CONTROL PLAN	
STA 984+00 TO STA 996+00	
& ACCESS ROAD	

DIBBLE PROJECT No.	
101411.09	

COCONINO COUNTY, AZ	
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EROSION CONTROL PLAN	
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OF 30	

NAVAJO DIVISION OF TRANSPORTATION	
DEPARTMENT OF ROADS	
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DEPARTMENT OF ROADS	
NAVAJO PARKS & RECREATION DEPARTMENT	
EROSION CONTROL PLAN	
STA 984+00 TO STA 996+00	
& ACCESS ROAD	

DIBBLE PROJECT No.	
101411.09	

COCONINO COUNTY, AZ	
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OF 30	

NAVAJO DIVISION OF TRANSPORTATION	
DEPARTMENT OF ROADS	
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