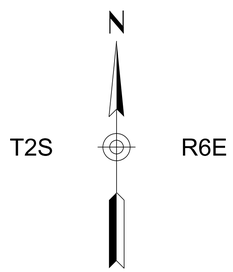
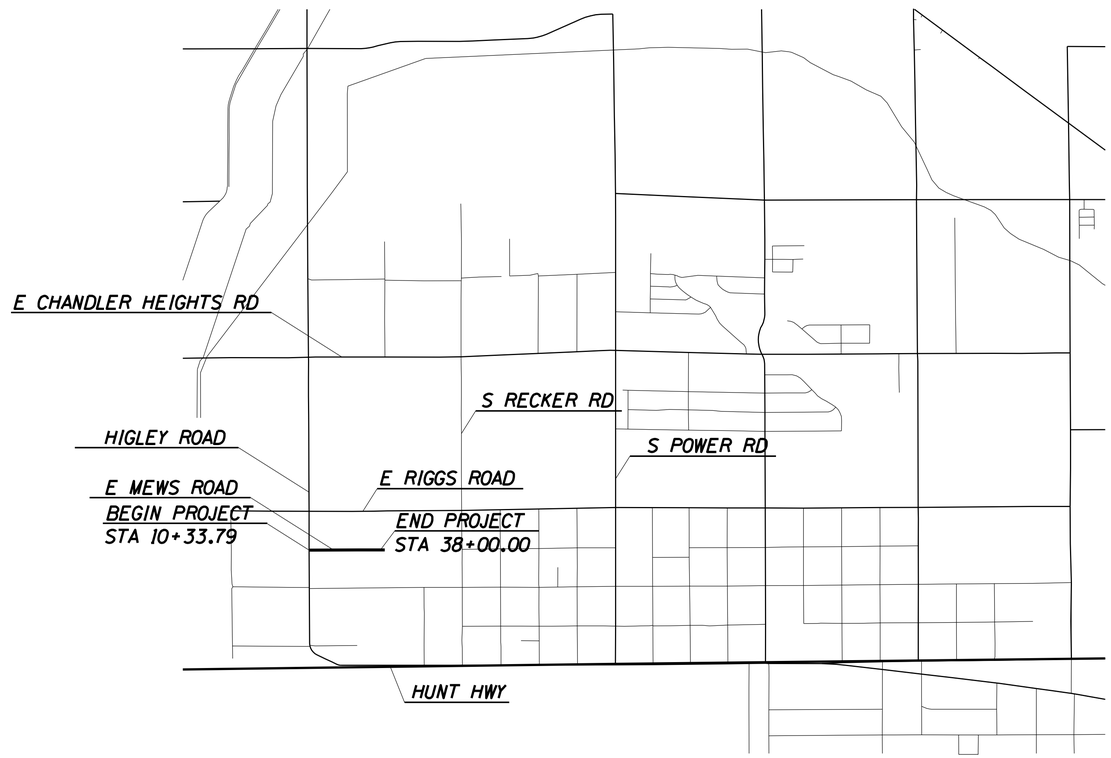
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION

PROJECT PLANS

RURAL AREA
TOWN OF GILBERT



TOWN OF GILBERT



Constructed by:

Construction Company

Completion Date

Red-Lines by:

Construction Administrator Name & Company

Completion Date

Record Drawings by:

Record Drawings Designer Name & Company

Completion Date

MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

PROJECT NO.: 0000 MA GIL T0336 01C
FEDERAL AID NO.: GIL-0(218)T

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

REC. DWGS. DATA	REC. DWG. DATE	OF --

ADOT STANDARD DRAWINGS

CONSTRUCTION STANDARDS
EFFECTIVE AUGUST 2023

DATE	STANDARD	SUBJECT TITLE
5/12	C-01.10 SH 1	SYMBOL LEGEND
5/12	C-01.10 SH 2	SYMBOL LEGEND
5/12	C-01.10 SH 3	SYMBOL LEGEND
5/12	C-01.10 SH 4	SYMBOL LEGEND
12/17	C-01.30 SH 1	GENERAL ABBREVIATIONS
5/12	C-01.30 SH 2	GENERAL ABBREVIATIONS
5/12	C-01.30 SH 3	GENERAL ABBREVIATIONS
5/12	C-02.10	SLOPES, RURAL DIVIDED HIGHWAYS
5/12	C-02.20	SLOPES, RURAL UNDIVIDED AND FRINGE-URBAN HIGHWAYS
5/12	C-02.30	SLOPES, MISCELLANEOUS ROADWAYS
5/12	C-03.10 SH 1	DITCHES, CHANNELS, DIKES AND BERMS, DITCHES AND CHANNELS
5/12	C-03.10 SH 2	DITCHES, CHANNELS, DIKES AND BERMS, DIKES
5/12	C-03.10 SH 3	DITCHES, CHANNELS, DIKES AND BERMS, DITCH DIKE
5/12	C-03.10 SH 4	DITCHES, CHANNELS, DIKES AND BERMS, PIPE BERMS
5/12	C-03.10 SH 5	DITCHES, CHANNELS, DIKES AND BERMS, HEADWALL BERMS
12/17	C-04.10 SH 1	SPILLWAY, EMBANKMENT SINGLE INLET
12/17	C-04.10 SH 2	SPILLWAY, EMBANKMENT DOUBLE INLET
12/17	C-04.20 SH 1	DOWNDRAIN, EMBANKMENT SINGLE INLET
12/17	C-04.20 SH 2	DOWNDRAIN, EMBANKMENT DOUBLE INLET
12/17	C-04.30	SPILLWAY LENGTH TABLE
12/17	C-04.40	DOWNDRAIN LENGTH TABLE
5/12	C-04.50	DOWNDRAIN ENERGY DISSIPATOR
5/12	C-05.10	CURB & GUTTER, CURB, GUTTER
5/12	C-05.12 SH 1	CURB & GUTTER TRANSITIONS
5/12	C-05.12 SH 2	CURB & GUTTER TRANSITIONS
5/12	C-05.12 SH 3	CURB AND GUTTER TRANSITIONS
5/12	C-05.20 SH 1	CONCRETE DRIVEWAYS & SIDEWALKS, DRIVEWAYS
5/12	C-05.20 SH 2	CONCRETE DRIVEWAYS & SIDEWALKS, SIDEWALKS
5/12	C-05.30 SH 1	SIDEWALK RAMP, TYPE A
5/12	C-05.30 SH 2	SIDEWALK RAMP, TYPE B
5/12	C-05.30 SH 3	SIDEWALK RAMP, TYPE C
5/12	C-05.30 SH 4	SIDEWALK RAMP, TYPE D
5/12	C-05.30 SH 5	SIDEWALK RAMP, TYPE E
5/12	C-05.30 SH 6	SIDEWALK RAMP, TYPE F
5/12	C-05.30 SH 7	SIDEWALK RAMP, DETECTABLE WARNING STRIP
5/12	C-05.40	MEDIAN PAVING AND NOSE TAPER
5/12	C-05.50	CONCRETE BUS BAY
5/12	C-06.10 SH 1	DRIVEWAY & TURNOUT LAYOUTS
5/12	C-06.10 SH 2	DRIVEWAY & TURNOUT LAYOUTS
5/12	C-07.01 SH 1	PCCP JOINTS
5/12	C-07.01 SH 2	PCCP JOINTS
5/12	C-07.02	LOAD TRANSFER DOWEL ASSEMBLY
5/12	C-07.03 SH 1	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 2	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 3	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 4	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 5	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 6	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 7	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 8	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.04 SH 1	PCCP JOINT LOCATIONS, PARALLEL-TYPE ENTRANCE RAMP WITH AUXILIARY LANE
5/12	C-07.04 SH 2	PCCP JOINT LOCATIONS, PARALLEL-TYPE EXIT RAMP WITH AUXILIARY LANE
5/12	C-07.04 SH 3	PCCP JOINT LOCATIONS, TAPER-TYPE ENTRANCE RAMP
5/12	C-07.04 SH 4	PCCP JOINT LOCATIONS, TAPER-TYPE EXIT RAMP
5/12	C-07.04 SH 5	PCCP JOINT LOCATIONS, CROSSROAD AND RAMP TERMINI
8/21	C-07.06	TRENCH BACKFILL AND PAVEMENT REPLACEMENT
5/12	C-08.20	PAVED GORE AREA
12/17	C-10.00	GUARDRAIL MEASUREMENT LIMITS
12/17	C-10.01	GUARDRAIL INSTALLATION
12/17	C-10.03	W-BEAM GUARDRAIL, MGS BLOCKED-OUT TIMBER POST
12/17	C-10.04	W-BEAM GUARDRAIL, MGS BLOCKED-OUT STEEL POST
12/17	C-10.05 SH 1	W-BEAM GUARDRAIL (MODIFIED) WITH FREEWAY CURB AND GUTTER
12/17	C-10.05 SH 2	W-BEAM GUARDRAIL (MODIFIED) WITH FREEWAY CURB AND GUTTER
12/17	C-10.06	W-BEAM GUARDRAIL LONG-SPAN
12/17	C-10.07 SH 1	W-BEAM GUARDRAIL, BOX CULVERT GUARDRAIL POST
12/17	C-10.07 SH 2	W-BEAM GUARDRAIL, BOX CULVERT GUARDRAIL POST
12/17	C-10.08 SH 1	W-BEAM GUARDRAIL, END ANCHOR
12/17	C-10.08 SH 2	W-BEAM GUARDRAIL, END ANCHOR
12/17	C-10.09	GUARDRAIL POST ROCK INSTALLATION
4/19	C-10.20 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR SOFTSTOP
4/19	C-10.20 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR SOFTSTOP
4/19	C-10.21 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MSKT
4/19	C-10.21 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MSKT
4/19	C-10.22 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MAX-TENSION
4/19	C-10.22 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MAX-TENSION
4/21	C-10.23 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR SGET
4/21	C-10.23 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR SGET
11/19	C-10.26 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MFLEAT
11/19	C-10.26 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MFLEAT
12/17	C-10.30 SH 1	GUARDRAIL TRANSITION TO CONCRETE BARRIER, TIMBER POST
12/17	C-10.30 SH 2	GUARDRAIL TRANSITION TO CONCRETE BARRIER, TIMBER POST
12/17	C-10.31 SH 1	GUARDRAIL TRANSITION TO CONCRETE BARRIER, STEEL POST
12/17	C-10.31 SH 2	GUARDRAIL TRANSITION TO CONCRETE BARRIER, STEEL POST
12/17	C-10.38 SH 1	GUARDRAIL TAPER G4 TO MGS W-BEAM WITH STAGGERED POST
12/17	C-10.38 SH 2	GUARDRAIL TAPER G4 TO MGS W-BEAM WITH OFFSET RAIL
12/17	C-10.40	CONCRETE MEDIAN BARRIER, 32" TYPE 'F', CAST-IN-PLACE
12/17	C-10.41	CONCRETE MEDIAN BARRIER, 42" TYPE 'F', CAST-IN-PLACE
12/17	C-10.44 SH 1	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=0"TO 26"
12/17	C-10.44 SH 2	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=0"TO 26"
12/17	C-10.45 SH 1	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=26"TO 60"
12/17	C-10.45 SH 2	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=26"TO 60"
12/17	C-10.50 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F', CAST-IN-PLACE
12/17	C-10.50 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F', PRECAST
12/17	C-10.51	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH SIDEWALK
12/17	C-10.52	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH GUTTER

DATE	STANDARD	SUBJECT TITLE
12/17	C-10.53	CONCRETE HALF BARRIER, 42" TYPE 'F' WITH GUTTER
12/17	C-10.54 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, CAST-IN-PLACE
12/17	C-10.54 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, PRECAST
12/17	C-10.54 SH 3	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, LAYOUT
12/17	C-10.55 SH 1	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, CAST-IN-PLACE
12/17	C-10.55 SH 2	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, PRECAST
12/17	C-10.55 SH 3	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, LAYOUT
12/17	C-10.70 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
12/17	C-10.70 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
12/17	C-10.70 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
12/17	C-10.71 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
12/17	C-10.71 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
12/17	C-10.72 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
12/17	C-10.72 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
12/17	C-10.72 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
12/17	C-10.73 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
12/17	C-10.73 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
12/17	C-10.74	CONCRETE HALF-BARRIER TRANSITION, 42" TO 32" TYPE 'F'
12/17	C-10.75 SH 1	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' TANGENT DEPARTURE TYPE 1
12/17	C-10.75 SH 2	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' TANGENT DEPARTURE TYPE 2
12/17	C-10.76	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' AT RADIUS, 32" TO 0"
4/19	C-10.77	CONCRETE BARRIER TRANSITION TO GUARDRAIL END TERMINAL LAYOUT WITH CURB
12/17	C-10.78	CONCRETE HALF-BARRIER TRANSITION, 32" TYPE 'F' LOW SPEED APPROACH
12/17	C-10.79	CONCRETE HALF-BARRIER TRANSITION, 42" TYPE 'F' TANGENT DEPARTURE
5/12	C-11.10 SH 1	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 2	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 3	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 4	ROADWAY CATTLE GUARD
5/12	C-11.20	CATTLE GUARD, DRAINAGE
5/12	C-12.10 SH 1	FENCE, WOVEN WIRE
5/12	C-12.10 SH 2	FENCE, BARBED WIRE
5/12	C-12.10 SH 3	FENCE, TYPE 1 AND 2 GATES, FLOOD GATE
5/12	C-12.10 SH 4	FENCE, FLOOD GATE INSTALLATION
5/12	C-12.10 SH 5	FENCE, MISCELLANEOUS DETAILS
5/12	C-12.20 SH 1	FENCE, CHAIN LINK, TYPE 1
5/12	C-12.20 SH 2	FENCE, CHAIN LINK, TYPE 2
5/12	C-12.20 SH 3	FENCE, CHAIN LINK, GATES
5/12	C-12.30 SH 1	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-12.30 SH 2	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-12.30 SH 3	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-13.10 SH 1	PIPE CULVERT INSTALLATION
5/12	C-13.10 SH 2	PIPE CULVERT INSTALLATION
8/23	C-13.15	TYPICAL PIPE INSTALLATION
5/12	C-13.20	PIPE, REINFORCED CONCRETE END SECTION
5/12	C-13.25	PIPE, CORRUGATED METAL END SECTION
5/12	C-13.30	PIPE AND PIPE ARCH, CORRUGATED METAL, CONCRETE INVERT PAVING
5/12	C-13.55	PIPE, CATTLE-VEHICLE PASS, MITERED END TREATMENT
5/12	C-13.60	SLOTTED DRAIN DETAILS
5/12	C-13.65	SLOTTED DRAIN INSTALLATION DETAILS
5/12	C-13.70	STORM DRAIN CONNECTION DETAILS
5/12	C-13.75	STORM DRAIN OUTLET BARRIER GATE
5/12	C-13.76	STORM DRAIN OUTLET AND STORM DRAIN PLUG
5/12	C-13.80	PIPE COLLAR DETAILS
5/12	C-15.10	CATCH BASIN, TYPE 1
5/12	C-15.20 SH 1	CATCH BASIN, TYPE 3
5/12	C-15.20 SH 2	CATCH BASIN, TYPE 3
5/12	C-15.20 SH 3	CATCH BASIN, ACCESS FRAME AND COVER DETAILS
5/12	C-15.30	CATCH BASIN, TYPE 4
5/12	C-15.40 SH 1	CATCH BASIN, TYPE 5
5/12	C-15.40 SH 2	CATCH BASIN, TYPE 5
5/12	C-15.50	CATCH BASIN, FRAME AND GRATE
5/12	C-15.70 SH 1	CATCH BASIN, MISCELLANEOUS DETAILS
5/12	C-15.70 SH 2	CATCH BASIN, MISCELLANEOUS DETAILS
5/12	C-15.75	CATCH BASIN, DROP INLET
5/12	C-15.80	CATCH BASIN, FLUSH
5/12	C-15.81	CATCH BASIN, SIDE SLOPE
5/12	C-15.90	CATCH BASIN, MEDIAN DIKE, PRECAST
5/12	C-15.91 SH 1	FREEWAY CATCH BASIN DETAILS
5/12	C-15.91 SH 2	FREEWAY CATCH BASIN DETAILS
5/12	C-15.92 SH 1	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/12	C-15.92 SH 2	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/12	C-16.40	IRRIGATION SLEEVES
5/12	C-17.10	RAIL BANK PROTECTION FOR DRAINAGEWAYS, TYPES 1, 2 & 3
5/12	C-17.15	RAIL BANK PROTECTION AT ABUTMENTS, TYPES 4, 5 & 6
5/12	C-17.20	RAIL BANK PROTECTION FOR DRAINAGEWAYS, TYPES 7, 8 & 9
5/12	C-18.10 SH 1	MANHOLE, RISER DETAILS
5/12	C-18.10 SH 2	MANHOLE, BASE DETAILS, NORMAL INSTALLATION
5/12	C-18.10 SH 3	MANHOLE, FRAME AND COVER DETAILS
5/12	C-19.10 SH 1	FORD, CONCRETE WALLS
5/12	C-19.10 SH 2	FORD, TYPES 1 AND 2
5/12	C-21.10	SURVEY MONUMENT FRAME AND COVER
5/12	C-21.20	SURVEY MARKER

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

	NAME	DATE
CONSTRUCTION STANDARDS	Dick Yano	03/25

PROJECT NO.			
0000 MA GIL T0336 01C		1A	OF 1
RECORD DRAWING DATA	FEDERAL ID NO. GIL-0(218)T	REC. DWG. DATE	OF

ADOT STANDARD DRAWINGS

TRAFFIC SIGNING & MARKING STANDARDS
(SHEET 1 OF 2)
EFFECTIVE MAY 2025

REVISION DATE	STANDARD NUMBER	SUBJECT : SIGNING AND MARKING DETAILS
6/14	M-1	CURB MARKINGS FOR RAISED MEDIAN AND ISLANDS
1/20	M-2 SHT 1	INTERSECTION STRIPING
5/15	M-2 SHT 2	INTERSECTION STRIPING (TWO-LANE RURAL)
6/14	M-2 SHT 3	CENTERLINE AND REVERSE CURVE DETAILS
6/14	M-3	STRIPING AND DELINEATION FOR FREEWAY TERMINALS
6/14	M-4	PASSING LANE STRIPING DETAILS
6/14	M-5	RAILROAD PAVEMENT MARKINGS
6/14	M-6	WORD MARKINGS
6/14	M-7	PAVEMENT LETTERS
6/14	M-8	PAVEMENT LETTERS
6/14	M-9	PAVEMENT NUMBERS
6/14	M-10 SHT 1	PAVEMENT MARKING SYMBOLS
6/14	M-10 SHT 2	PAVEMENT MARKING SYMBOLS
5/25	M-10 SHT 3	PAVEMENT MARKING SYMBOLS
6/14	M-11	TURN LANE PAVEMENT MARKINGS
6/14	M-12	WRONG-WAY ARROWS
1/19	M-13	PREFERENTIAL LANE PAVEMENT MARKINGS
6/14	M-14	STRIPING AND DELINEATION FOR TRUCK ESCAPE RAMPS
8/20	M-15 SHT 1	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - TAPERED ACCELERATION LANE
8/20	M-15 SHT 2	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE
8/20	M-15 SHT 3	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE WITH HOV BYPASS
6/14	M-15 SHT 4	PAVEMENT MARKING FOR FREEWAY PARALLEL - ACCELERATION LANE
8/20	M-16 SHT 1	PAVEMENT MARKING FOR FREEWAY EXIT RAMPS - TAPERED DECELERATION LANE
8/20	M-16 SHT 2	PAVEMENT MARKING FOR FREEWAY EXIT RAMP - PARALLEL DECELERATION LANE
8/20	M-17	FREEWAY LANE DROP PAVEMENT MARKINGS
11/24	M-19 SHT 1	RAISED PAVEMENT MARKER PLAN LEGEND
6/14	M-19 SHT 2	NON-REFLECTIVE RAISED PAVEMENT MARKER DETAILS
11/24	M-19 SHT 3	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS
11/24	M-19 SHT 4	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS
5/15	M-19 SHT 5	PAVEMENT MARKING DETAILS FOR UNDIVIDED HIGHWAYS
6/14	M-19 SHT 6	RETROREFLECTIVE RAISED PAVEMENT MARKERS (RPM) FOR UNDIVIDED HIGHWAYS
8/20	M-19 SHT 7	FREEWAY AND DIVIDED HIGHWAY EDGE LINE AND LANE STRIPING
5/15	M-19 SHT 8	LANE DROP MARKING AND RAMP OR INTERSECTION GUIDE STRIPING
8/20	M-19 SHT 9	PAVEMENT MARKING CROSS-SECTION DETAILS FOR HIGHWAYS AND FREEWAYS
6/24	M-19 SHT 10	CONTRAST LANE LINE FOR FREEWAY AND DIVIDED HIGHWAY
10/23	M-19 SHT 11	LEAD-LAG CONTRAST PAVEMENT MARKINGS FOR CONCRETE PAVEMENT

REVISION DATE	STANDARD NUMBER	SUBJECT : SIGNING AND MARKING DETAILS
6/14	M-20 SHT 1	CHIP SEAL MARKER USAGE FOR TEMPORARY MARKERS
6/14	M-20 SHT 2	CHIP SEAL MARKER USAGE FOR TEMPORARY MARKERS
6/14	M-21	TRANSVERSE RUMBLE STRIP DETAILS
9/21	M-22 SHT 1	LONGITUDINAL RUMBLE STRIP GROOVE, PATTERN - AND LOCATION DETAILS
9/21	M-22 SHT 2	LONGITUDINAL RUMBLE STRIP EXCEPTION DETAILS
9/21	M-22 SHT 3	ENTRANCE AND EXIT RAMPS RUMBLE STRIP INSTALLATION DETAILS
3/22	M-22 SHT 4	CENTERLINE RUMBLE STRIP GROOVE, PATTERN - AND LOCATION DETAILS
6/14	M-23	OBJECT MARKER DETAILS
6/14	M-24	OBJECT MARKER PLACEMENT DETAILS
2/21	M-26 SHT 1	DELINEATOR PLACEMENT AND SPACING
2/21	M-26 SHT 2	DELINEATOR PLACEMENT AND SPACING
2/21	M-26 SHT 3	FLEXIBLE DELINEATOR ASSEMBLIES
2/21	M-26 SHT 4	SQUARE STEEL POST DELINEATOR
2/21	M-26 SHT 5	DELINEATOR FOUNDATION DETAILS
2/21	M-27 SHT 1	DELINEATION DETAILS FOR MEDIAN CROSSOVERS
2/21	M-27 SHT 2	DELINEATION DETAILS FOR MEDIAN CROSSOVERS
6/14	M-29	OFF- MAINLINE REFERENCE MARKER LOCATION DETAIL
6/14	M-30	OFF- MAINLINE REFERENCE MARKER DETAILS
6/14	M-32	BRIDGE AND BARRIER MARKER DETAILS
6/14	M-33	BRIDGE AND BARRIER MARKER PLACEMENT AND INSTALLATION DETAILS
6/14	M-34	GUARDRAIL END TERMINAL DELINEATION DETAILS
6/14	M-35	OBJECT MARKER FOR SAND BARREL CRASH CUSHION

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

	NAME	DATE
SIGNING & MARKING STANDARDS	Dick Yano	

PROJECT NO.				
T0336 01C		1B-1	OF	2
RECORD DRAWING DATA	FEDERAL ID NO. GIL-0(218)T	REC. DWG. DATE	OF	

ADOT STANDARD DRAWINGS

TRAFFIC SIGNING & MARKING STANDARDS
(SHEET 2 OF 2)
EFFECTIVE MAY 2025

REVISION DATE	STANDARD NUMBER	SUBJECT : SIGNING AND MARKING DETAILS
4/19	S-1 SHT 1	GENERAL SIGNING NOTES
6/14	S-2 SHT 1	S & W BREAKAWAY POST SELECTION CHART
6/14	S-2 SHT 2	S & W BREAKAWAY POST INSTALLATION DETAILS
6/14	S-3 SHT 1	FLAT SHEET SIGNS SQUARE TUBE POST GENERAL NOTES
6/14	S-3 SHT 2	SINGLE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 12, 18 AND 24 INCH WIDTHS
6/14	S-3 SHT 3	SINGLE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 30, 36, 42 AND 54 INCH WIDTHS
6/14	S-3 SHT 4	TWO POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 36, 42 AND 48 INCH WIDTHS
6/14	S-3 SHT 5	TWO POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 54, 60 AND 72 INCH WIDTHS
6/14	S-3 SHT 6	TWO POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 84 - 144 INCH WIDTHS
6/14	S-3 SHT 7	THREE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 48, 60 AND 72 INCH WIDTHS
6/14	S-3 SHT 8	THREE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 84 - 144 INCH WIDTHS
6/14	S-3 SHT 9	WARNING SIGN ASSEMBLY - SINGLE POST
6/14	S-3 SHT 10	WARNING SIGN ASSEMBLY - TWO POST
6/14	S-3 SHT 11	WARNING SIGN ASSEMBLY - THREE POST
6/14	S-3 SHT 12	MULTIPLE ROUTE MARKER ASSEMBLIES
6/14	S-3 SHT 13	SPECIAL SIGN ASSEMBLIES
6/14	S-3 SHT 14	STRINGER DETAILS FOR SQUARE TUBE POSTS
6/14	S-3 SHT 15	SQUARE TUBE SIGN POST FOUNDATION
6/14	S-3 SHT 16	SQUARE TUBE POST SLIP BASE DETAILS
6/14	S-4	W SHAPE BREAKAWAY POST FUSE PLATE AND HINGE DETAILS
6/22	S-5	W SHAPE BREAKAWAY POST DETAILS
6/22	S-6	S4x7.7 BREAKAWAY POST DETAILS
6/14	S-7 SHT 1	ALUMINUM EXTRUSION SIGN PANEL DETAILS
6/14	S-7 SHT 2	ALUMINUM EXTRUSION AUXILIARY SIGN INSTALLATION DETAILS
5/15	S-7 SHT 3	ALUMINUM EXTRUSION EXIT PANEL INSTALLATION DETAIL
6/14	S-8 SHT 1	FLAT SHEET ALUMINUM PANEL ON BREAKAWAY POSTS INSTALLATION DETAIL
6/14	S-8 SHT 2	ALUMINUM EXTRUSION SIGN TO PERFORATED POSTS INSTALLATION DETAIL
8/22	S-9 SHT 1	SIGN INSTALLATION ON POLE
8/22	S-9 SHT 2	SIGNS (BACK TO BACK) INSTALLATION ON POLE
8/22	S-9 SHT 3	SIGN INSTALLATION ON SIGNAL POLE
8/22	S-9 SHT 4	SIGN INSTALLATION ON POLE BAND-TYPE CLAMP
6/14	S-10	MILEPOST AND REFERENCE LOCATION SIGNS
11/22	S-11 SHT 1	TAPERED TUBE SIGN STRUCTURE SINGLE BEAM
4/19	S-11 SHT 2	TAPERED TUBE SIGN STRUCTURE SINGLE BEAM POST AND BEAM DETAILS

REVISION DATE	STANDARD NUMBER	SUBJECT : SIGNING AND MARKING DETAILS
6/14	S-12 SHT 1	TYPE A, B, AND DOWN ARROWS
6/14	S-12 SHT 2	TYPE C AND D ARROWS
6/14	S-12 SHT 3	C2 ARROW DETAIL
6/14	S-13	SIGN IDENTIFICATION DETAILS
6/14	S-14 SHT 1	ROTATING OPEN/CLOSED SIGN
6/14	S-14 SHT 2	ROTATING OPEN/CLOSED SIGN DETAILS
6/14	S-14 SHT 3	ROTATING OPEN/CLOSED SIGN MOUNTING DETAILS
6/14	S-15 SHT 1	FOLDING RECTANGULAR SIGN ASSEMBLY
6/14	S-15 SHT 2	FOLDING RECTANGULAR SIGN OPERATION
6/14	S-15 SHT 3	FOLDING DIAMOND SIGN ASSEMBLY
4/19	S-16 SHT 1	TEMPORARY WOOD POSTS
4/19	S-16 SHT 2	TEMPORARY WOOD POSTS SELECTION CHART
6/14	S-17	END OF ROAD BARRICADE
7/19	S-18 SHT 1	ALUMINUM GRAFFITI SHIELD EXIT AND GUIDE SIGN ASSEMBLY
7/19	S-18 SHT 2	ALUMINUM GRAFFITI SHIELD RIGHT RIDER SIDE PANEL
7/19	S-18 SHT 3	ALUMINUM GRAFFITI SHIELD LEFT RIDER SIDE PANEL
7/19	S-18 SHT 4	ALUMINUM GRAFFITI SHIELD CORNER
7/19	S-18 SHT 5	ALUMINUM GRAFFITI SHIELD SPLICE PLATE
7/19	S-18 SHT 6	ALUMINUM GRAFFITI SHIELD FIN
7/19	S-18 SHT 7	ALUMINUM GRAFFITI SHIELD TOP PANEL
7/19	S-18 SHT 8	ALUMINUM GRAFFITI SHIELD SIDE PANEL
7/19	S-18 SHT 9	ALUMINUM GRAFFITI SHIELD RIGHT TRANSITION FROM RIDER
7/19	S-18 SHT 10	ALUMINUM GRAFFITI SHIELD LEFT TRANSITION FROM RIDER
7/19	S-18 SHT 11	ALUMINUM GRAFFITI SHIELD SPLICE PLATE FOR FIN
12/18	C-1	SAND BARREL CRASH CUSHION
12/18	C-2	SAND BARREL CRASH CUSHION TYPICAL INSTALLATION
6/14	C-3 SHT 1	PRECAST CONCRETE BARRIER STRUCTURAL DETAILS
6/14	C-3 SHT 2	PRECAST CONCRETE BARRIER PIN AND LOOP ASSEMBLY
6/14	C-4 SHT 1	MEDIAN CROSSOVER
6/14	C-4 SHT 2	TYPICAL END TREATMENTS FOR DETOURS USING TEMPORARY CONCRETE BARRIER (TCB)
6/14	C-5 SHT 1	APPROACH PLATE AND TRANSITION SECTION FOR TEMPORARY CONCRETE BARRIER
6/14	C-5 SHT 2	APPROACH PLATE AND TRANSITION SECTION FOR TEMPORARY CONCRETE BARRIER

ADOT STANDARD DRAWINGS REVISION DATES and STANDARD NO.'s REVIEW				
	NAME		DATE	
SIGNING & MARKING STANDARDS	Dick Yano			
PROJECT NO. T0336 01C			1B-2	OF 2
RECORD DRAWING DATA	FEDERAL ID NO. GIL-0(218)T	REC. DWG. DATE		OF

ADOT STANDARD DRAWINGS

STRUCTURE DETAIL DRAWINGS
EFFECTIVE NOVEMBER 2024

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

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

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

	NAME	DATE
STRUCTURES STANDARDS	Dick Yano	03/25

PROJECT NO.			
0000 MA GIL T0336 01C			1D OF
RECORD DRAWING DATA	FEDERAL ID NO. GIL-0(218)T	REC. DWG. DATE	OF

1. SPILL PREVENTION, CONTROL, AND COUNTERMEASURES – CWA SECTION 311

If total above-ground storage capacity, including mobile re-fuelers stationed on-site, is greater than 1,320 gallons of oil (oils, greases, fuel, asphalt, and asphalt derivatives), where a spill has the potential to reach Waters of the US, the Contractor shall prepare a SPCC plan per contract specifications in Section 104.16 (C) of the Standard Specifications.

2. SURFACE WATER POLLUTION PREVENTION – CWA SECTION 402

☑ Arizona Pollutant Discharge Elimination System (AZPDES) CGP coverage applies (104SWDEQ needed)

3. WORK IN WATERS OF THE UNITED STATES – CWA SECTION 404/401

☑ No Permit Required; Refer to Section 104.16 (D) of the Standard Specifications for General Requirements

4. BIOLOGY PROGRAM – ESA SECTION 7; MBTA, ARIZONA REVISED STATUTES TITLE 17

BIO-1: Environmental Awareness, Monitoring and Avoidance ☑ N/A

BIO-2: Migratory Bird Treaty Act (MBTA) ☐ N/A

The Contractor will avoid nests with relocation directions.

BIO-2A: General Seasonal Restrictions for MBTA, refer to seasonal dates in EPIC and general requirements in 104.16(E) of the Standard Specifications.

If construction occurs during the migratory bird breeding season: March 1 to August 31 refer to Section 104.16 BIO-2 of the specifications for direction.

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

BIO-3: Burrowing Owls ☐ N/A

BIO-3A: Burrowing Owl Awareness Flyer; see Section 104.16 BIO-3A of the specifications for direction.

BIO-4: Bats ☑ N/A

BIO-5: Sonoran Desert Tortoise ☒ No ☐ Yes

5. VEGETATION PROTECTION PROGRAM – CWA SECTION 402, EO 13122

General (applies to all projects); The contractor shall comply with the requirements specified in Section 104.16 (F) of the Special Provisions and Section 104.16 (B) of the Standard Specifications.

☑ No Vegetation Protection Program Action Required; See Std. Spec. 107.11 for General Requirements

6. CULTURAL RESOURCES PROGRAM

☑ No Cultural Resources Program Action Required; See Std. Spec. 107.05 and 107.06 for General Requirements

7. HAZARDOUS MATERIALS PROGRAM

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

☑ No Hazardous Materials Program Action Required

8. NOISE PROGRAM

☑ No Noise Program Specific Project Action Required; See Std. Spec. 104.08 for General Requirements

9. AIR QUALITY PROGRAM

☑ No Air Quality Program Action Required; See Std. Spec. 104.08 for General Requirements

10. OTHER ENVIRONMENTAL ISSUES

Project Specific Environmental Commitments: ☑ N/A

Arizona Department of Transportation Environmental Planning Standard Template			
Environmental, Permits, Issues, And Commitments (EPIC) Sheet			
Environmental Planner Name	Julia Manobianco	**R.E. Name**	
Environmental Planning Date of Completion	02/23/2024	**R.E. Signature**	
FEDERAL ID NO.	GIL-0(218)T		
PROJECT NO.	0000 MA GIL T0336 01C	With the above signature, the R.E. attests that all EPIC work for this project has been satisfactorily completed.	
REC DWG DATE:	_____ OF _____	_____ OF _____	**Sheet 1F**

ABBREVIATIONS :

AB	AGGREGATE BASE
ABAN	ABANDON
ABC	AGGREGATE BASE COURSE
AC	ASPHALT CONCRETE
ACB	ASPHALT CONCRETE BASE
AGG	AGGREGATE
ADOT	ARIZONA DEPARTMENT OF TRANSPORTATION
ADA	AMERICANS WITH DISABILITIES ACT OF 1990
APPROX	APPROXIMATE
AVE	AVENUE
BC	BEGINNING OF CURVE
BCR	BEGINNING OF CURVE RETURN
BEG	BEGINNING
BM	BENCH MARK
BRG	BEARING
BST	BITUMINOUS SURFACE TREATMENT
BTB	BITUMINOUS TREATED BASE
BVC	BEGINNING OF VERTICAL CURVE
CB	CATCH BASIN
CC	CENTER TO CENTER
CE	CITY OF COUNTY ENGINEER
CEM	CEMENT
CF	CURB FACE
CFS	CUBIC FEET PER SECOND
CIP	CAST IRON PIPE
CIPP	CAST IN PLACE CONCRETE PIPE
CL	CENTERLINE
CLR	CLEAR
CONC	CONCRETE
CONST	CONSTRUCT
CP	CONCRETE PIPE
CTB	CEMENT TREATED BASE
CU	CUBIC
DIA	DIAMETER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DIV	DIVISION
DRWG	DRAWING
DWY	DRIVEWAY
EA	EACH
EASE	EASEMENT
E	EAST
EC	END OF CURVE
ECR	END OF CURVE RETURN
ELV	ELEVATION
EQUA	EQUATION
EVC	END OF VERTICAL CURVE
EXIST	EXISTING
FH	FIRE HYDRANT
FL	FLOW LINE
FPS	FEET PER SECOND
FS	FINISHED SURFACE
FT	FOOT OR FEET
G	GUTTER
GA	GAGE
GL	GROUND LINE
GR	GRADE
HDWL	HEADWALL
HORIZ	HORIZONTAL
HWY	HIGHWAY
IE	INVERT ELEVATION
IN	INCH
INV	INVERT
IP	IRON PIPE
IRRIG	IRRIGATION
JT	JOINT
JCT	JUNCTION
L	LENGTH
LB	POUND
LF	LINEAR FEET
LIN	LINEAR
LONG	LONGITUDIAL
LT	LEFT
M	MAP
MAG	MARICOPA ASSOCIATION OF GOVERMENTS
MAX	MAXIMUM
MEAS	MEASURED
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NORTH
NPI	NON PAY ITEM
NTS	NOT TO SCALE
NO	NUMBER
OC	ON CENTER
OZ	OUNCES
PC	POINT OF CURVATURE
PL	PROPERTY LINE
PP	POWER POLE
PROP	PROPOSED
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
P&TP	POWER AND TELEPHONE POLE
PVMT	PAVEMENT
R	RADIUS
RD	ROAD
RET WALL	RETAINING WALL
RT	RIGHT
R/W	RIGHT-OF-WAY
S	SLOPE
SAN	SANITARY
SD	STORM DRAIN
SECT	SECTION
SHT	SHEET
SPEC	SPECIFICATIONS
SQ FT	SQUARE FOOT
SS	SANITARY SEWER
ST	STREET
STA	STATION
STD	STANDARD
STR GR	STRUCTURAL GRADE
SWPPP	STORMWATER POLLUTION PREVENTION PLAN
TEL	TELEPHONE
TEMP	TEMPORARY
TH	TEST HOLE
TP	TELEPHONE POLE
TRANS	TRANSITION
TS	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
TYP	TYPICAL
VERT	VERTICAL
W	WIDTH
WT	WEIGHT
YD	YARD
'	FEET
"	INCHES
°	DEGREES
%	PERCENT
#	NUMBER
@	AT
/	PER
=	EQUALS

SYMBOL LEGEND :

	FENCE
	FENCE GATE
	FIRE HYDRANT
	GUY WIRE
MB	MAILBOX
	POWER POLE
	R/W
	SIGN
TSB	TRAFFIC BOX
	VEGETATION
WM	WATER METER
	WATER VALVE
12" PVC SS	12" PVC SANITARY SEWER
8" PVC WL	8" PVC WATER LINE
OHE	EXST OVERHEAD ELECTRIC
PROP UGE	PROPOSED UNDERGROUND ELECTRIC
G	EXISTING GAS LINE
CATV	EXST CATV LINE
FO	EXST FIBER OPTIC LINE

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 01/24/2024 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

ABBREVIATIONS AND LEGENDS SHEET

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	T0336	GIL-0(218)T	2	53	
STRUCTURE NO.	LOCATION: MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG	G01
	TRACS NO. T0336 01C					___ OF ___	

SHEET INDEX

SHEET NO.	DWG NO.	SHEET INDEX
1	FS01	COVER SHEET
1	1A, 1B, 1D	ADOT STANDARDS
1	1F	EPIC SHEET
2	G01	LEGEND AND ABBREVIATIONS
3	G02	GENERAL NOTES
4	G03	CONTROL SHEET
5	DT01	TYPICAL SECTIONS
6-8	DT02 - DT04	ADOT DETAILS
9-14	PP01 - PP06	MEWS PAVING PLAN AND PROFILE
15	PD01	INTERSECTION IMPROVEMENTS AND DETAILS
16-17	DW01 - DW02	DRIVEWAY PLAN & SECTION
18-19	DW03 - DW04	DRIVEWAY PLANS
20	C01	CULVERT PLAN AND PROFILE
21	C02	DRAINAGE CHANNEL DETAILS
22	S01	GENERAL STRUCTURAL NOTES
23	S02	STRUCTURAL DETAILS
24 - 25	TC01 - TC02	TRAFFIC CONTROL GENERAL NOTES & PLAN
26	SP01	SIGNING GERNAL NOTES AND SIGN SUMMARY
27-29	SP02 - SP04	SIGNING PLANS
30-34	SEC01 - SEC05	SECTIONS
35	WN01	WATER AND SEWER GENERAL NOTES
36	SM01	PIPE SUMMARY TABLE
37	WD01	ARMOROCK MANHOLE DETAILS
38-41	WD02-WD05	MAG/TOG STANDARD DETAILS
42-46	W01-W05	WATER LINE PLANS
47-52	WW01-WW06	SEWER LINE PLANS

TOWN OF GILBERT GENERAL NOTES :

1. ANY CONTRACTOR FOUND WORKING ON A PROJECT WITHOUT AN OFFICIAL SET OF STAMPED, APPROVED DRAWINGS BY THE TOWN OF GILBERT WILL BE SHUT DOWN UNTIL FURTHER NOTICE.
2. THE CONTRACTOR SHALL NOTIFY THE EL PASO NATURAL GAS DISTRICT SUPERINTENDENT AND THE SOUTHWEST GAS DISTRICT SUPERINTENDENT 48 HOURS PRIOR TO COMMENCING CONSTRUCTION IN THE VICINITY OF THE RIGHTS-OF-WAY SO THAT THEY MAY HAVE A REPRESENTATIVE PRESENT AT ALL TIMES.
3. EXCAVATION AND CONSTRUCTION WORK WILL NOT BE PERMITTED IN PUBLIC RIGHTS-OF-WAY OR PUBLIC UTILITY EASEMENTS ON SATURDAY, SUNDAY, OR LEGAL HOLIDAYS.
4. ALL DESIGN AND CONSTRUCTION MUST BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE UNIFORM STANDARD SPECIFICATIONS AND DETAILS PUBLISHED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS AND AS AMENDED BY THE TOWN OF GILBERT.
5. A NOTE STATING WHICH LOTS WILL RECEIVE WATER AND SEWER SERVICES AND THE SIZES.
6. THE CONTRACTOR SHALL NOTIFY THE TOWN OF GILBERT DEVELOPMENT SERVICES DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF ANY CONSTRUCTION FOR INSPECTION. CALL (480) 503-6700.
7. A NOTE REGARDING THE COORDINATION CONTRACTOR TO AVOID THE PLACEMENT OF DRIVEWAYS IN CONFLICT WITH UTILITY SERVICES.
8. A NOTE PERTAINING TO THE RESPONSIBILITY FOR THE COORDINATION OF THE RELOCATION OF POWER POLES AND OTHER UTILITIES.
9. A TYPICAL NOTE FOR THE CONTRACTOR TO ADJUST ALL VALVES, MANHOLES, CLEANOUTS, ETC., BOTH NEW AND OLD TO FINISHED PAVEMENT GRADE PER STANDARD DETAILS.
10. BACKFILL AND COMPACTION WITHIN COUNTY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST MARICOPA COUNTY SPECIAL PROVISIONS FOR INSTALLATION OF UNDERGROUND UTILITIES.
11. CONTRACTOR SHALL COMPLY WITH THE PROVISION FOR TRAFFIC CONTROL AS PER THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES HANDBOOK.
12. CALL THE ARIZONA 811, BLUE STAKE CENTER (602) 263-1100, 48 HOURS BEFORE YOU DIG FOR LOCATION OF ALL UNDERGROUND UTILITIES.
13. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A NIGHT TIE-IN FOR ANY NEW WATER LINE THAT WILL AFFECT EXISTING SERVICE SUFFICIENT TO WARRANT SAME AS DIRECTED BY THE ENGINEER.
14. ALL IMPROVEMENTS WITHIN THE RETENTION BASIN AND/OR ROADWAY PARKWAYS SHALL BE IN ACCORDANCE WITH THE LATEST TOWN OF GILBERT PROCEDURES FOR DEVELOPERS AND ENGINEERS.
15. CONTRACTOR IS ADVISED THAT AN EXCAVATION AND DIRT MOVING PERMIT IS REQUIRED BY THE MARICOPA COUNTY HEALTH DEPARTMENT AND THE TOWN OF GILBERT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THIS PERMIT AND COMPLY WITH ITS REQUIREMENTS.
16. ALL SPRINKLER AND LANDSCAPE MUST BE INSTALLED IN ACCORDANCE WITH THE APPROVED DESIGN REVIEW REQUIREMENTS AND APPROVED.
17. ALL SIGHT LINES SHALL COMPLY WITH TOWN OF GILBERT STANDARD DETAIL GIL-212 AT TIME OF INSTALLATION.

TOWN OF GILBERT PAVING NOTES :

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT MAG SPECIFICATIONS AND DETAILS, WITH THE TOWN OF GILBERT ADDITIONS AND DELETIONS.
2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION. THE TOWN ENGINEER SHALL BE NOTIFIED 24 HOURS PRIOR TO STARTING THE DIFFERENT PHASES OF CONSTRUCTION FOR SCHEDULING INSPECTIONS.
3. ACCEPTANCE OF THE COMPLETED RIGHT-OF-WAY IMPROVEMENTS WILL NOT BE GIVEN UNTIL RECORD DRAWINGS HAVE BEEN SUBMITTED TO AND APPROVED BY THE TOWN ENGINEER.
4. LOCATION OF ALL WATER VALVES MUST BE REFERENCED AT ALL TIMES DURING CONSTRUCTION AND MADE AVAILABLE TO THE WATER DISTRIBUTION DIVISION. ONLY TOWN EMPLOYEES ARE AUTHORIZED TO OPERATE THE WATER VALVES AND FIRE HYDRANT CONNECTIONS TO THE TOWN'S WATER SYSTEM.
5. NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE ROADWAY PRISM ARE COMPLETED.
6. WORK PERFORMED WITHOUT APPROVAL OF THE TOWN ENGINEER AND/OR ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
7. THE MAXIMUM STAKE INTERVAL FOR GRADES OF 0.2 PERCENT OR LESS SHALL BE 12.5 FEET FOR CONCRETE WORK AND 25 FEET FOR ASPHALT ROADWAY SECTION. ALL CURB RETURNS SHALL BE STAKED FOR THE P.C., P.T. AND THE MIDPOINT OF RETURN.
8. BASE COURSE WILL NOT BE PLACED ON SUBGRADE UNTIL BASE REQUIREMENTS HAVE BEEN COMPLETED AND ACCEPTED BY THE TOWN ENGINEER.
9. GUTTERS WILL BE WATER TESTED IN THE PRESENCE OF THE TOWN ENGINEER OR HIS AUTHORIZED REPRESENTATIVE TO INSURE PROPER DRAINAGE, PRIOR TO FINAL APPROVAL BY THE TOWN ENGINEER.
10. EXACT POINT OF MATCHING, TERMINATION AND OVERLAY, IF NECESSARY, MAY BE DETERMINED IN THE FIELD BY THE TOWN ENGINEER.
11. NO JOB WILL BE CONSIDERED COMPLETED UNTIL ALL CURBS, PAVEMENT AND SIDEWALKS HAVE BEEN SWEPT CLEAN OF ALL DIRT AND DEBRIS AND ALL SURVEY MONUMENTS ARE INSTALLED, PUNCHED AND DATED ACCORDING TO THE PLANS.
12. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL VALVES, MANHOLES AND BLOW OFFS IN ADVANCE OF CONSTRUCTION AND REPLACING SAME TO FINISHED GRADE.
13. THE TOWN OF GILBERT IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGE TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. ALSO, THE TOWN WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION.
14. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH MAG SPECIFICATION 401, AND THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ALL TRAFFIC CONTROLS, INCLUDING STRIPING AND REQUIRED SIGNAGE, SHALL BE INSTALLED WITHIN ONE WEEK OF THE INSTALLATION OF THE "FIRST LIFT" OF PAVING.
15. TESTING
    - TESTING OF MATERIALS AND CONSTRUCTION PERFORMANCE BY AN ARIZONA TECHNICAL TESTING INSTITUTE (ATTI) OR AMERICAN CONCRETE INSTITUTE (ACI) APPROVED TESTING LAB IS REQUIRED.
    - THE TOWN INSPECTOR WILL DETERMINE THE NUMBER AND TYPE OF TESTS NEEDED.
    - THE CONTRACTOR/DEVELOPER WILL NOTIFY THE TESTING LAB OF THE NEEDED TESTS, COORDINATE WITH THE INSPECTOR AND TESTING LAB AND PAY THE COSTS TO PERFORM THE TESTS.
16. ORDINANCE #1437, APPROVED BY THE TOWN COUNCIL IN OCTOBER 2002, STATES: NO CONSTRUCTION WATER FROM FIRE HYDRANTS SHALL BE USED ON PARCEL OR LOTS OF TEN ACRES OR MORE IN SIZE. FOR MORE INFORMATION, THE ORDINANCE IS LOCATED ON THE TOWN OF GILBERT WEBSITE. TO OBTAIN CONSTRUCTION WATER, THE CONTRACTOR IS REQUIRED TO MAKE APPLICATION WITH THE PUBLIC WORKS WATER DIVISION. A SECURITY DEPOSIT IS REQUIRED TO RECEIVE A FIRE HYDRANT METER. THE TOWN RESERVES THE RIGHT TO SPECIFY THE TIME AND LOCATION THAT CONSTRUCTION WATER CAN BE DELIVERED.
17. PRIOR TO FINAL APPROVAL AND ACCEPTANCE OF THE WORK, THE DEVELOPER/CONTRACTOR WILL BE REQUIRED TO CLEAN AND REPAIR ADJACENT (OFF-PROJECT) ROADWAYS USED DURING THE COURSE OF THEIR CONSTRUCTION.
18. USE OF "RECLAIMED ASPHALT" IS PROHIBITED UNLESS APPROVED BY THE TOWN ENGINEER.
19. GRINDING AND/OR PATCHING OF CURBS, GUTTERS, APRONS, VALLEY GUTTERS, DRIVEWAYS, SCUPPERS, MANHOLE BASES AND INVERTS OR ANY CONCRETE STRUCTURE TO CORRECT DEFICIENCIES THAT RESULT FROM IMPROPER GRADE SETTING, OR CONSTRUCTION METHODS, OR BREAKAGE DUE TO ANY CIRCUMSTANCES SHALL NOT BE PERMITTED.
20. ALL METALLIC MATERIALS INLETS, GRATES, FRAMES AND COVERS, CATCH BASINS AND NOSE ANGLES SHALL BE PAINTED PER MAG SPECIFICATION NO. 790, PAINT NO. 9 (LIGHT GRAY).
21. PARKWAY GRADING SHALL BE DESIGNED TO INSURE THAT RUNOFF CANNOT BE RETAINED BEHIND CURBS OR WALKS.
22. ALL PARKWAY GRADING MUST BE COMPLETED BEFORE ANY PAVING MAY BEGIN.
23. ALL SIGNS SHALL BE INSTALLED PER TOWN OF GILBERT STANDARD DETAIL GIL-227.

PROJECT NOTES :

1. THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING OVERHEAD AND UNDERGROUND FACILITIES NOT IMPACTED BY THE CONSTRUCTION OF THIS PROJECT.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN MINIMUM OSHA CLEARANCES FROM OVERHEAD AND UNDERGROUND FACILITIES. NO EQUIPMENT, SPOIL PILES ETC. SHALL BE PLACED BENEATH AND/OR OVER APS FACILITIES.
3. HAND DIG WITHIN 2 FEET OF ENERGIZED UNDERGROUND ELECTRICAL FACILITIES.
4. EARTHWORK SHALL BE PERFORMED PER THE RECOMMENDATIONS IN THE GEOTECHNICAL STUDY, SMITH & ANNALA ENGINEERING CO. (SAECO), PROJECT NO. 44.19.2139, DATED FEBRUARY 11, 2019.
5. THE TOWN OF GILBERT'S STANDARDS ARE TO TAKE PRECEDENCE OVER ALL OTHER STANDARDS.
6. THE AVERAGE ELEVATION IS 1351.50'.
7. WHERE ONLY THE HORIZONTAL LOCATION OF AN EXISTING UTILITY IS SHOWN, THE LOCATION IS APPROXIMATE. WHERE BOTH THE HORIZONTAL AND VERTICAL LOCATION OF AN EXISTNG UTILITY IS SHOWN, THE LOCATION HAS BEEN VERIFIED BY FIELD SURVEY METHODS. THE CONTRACTOR SHALL COMPLY WITH ALL CURRENT BLUE STAKE LAWS AND SECTION 107.15 OF THE SPECIFICATIONS.

LENGTH OF PROJECT

Sta 10+34.45 to Sta 36+00.00
Gross & Net Length = 2,606.00 ft = 0.49 mi

MIDPOINT OF PROJECT

Central Zone
State Plane Coordinates
X = 761330.05
Y = 806023.65

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/16/2024 ARIZONA U.S.A.

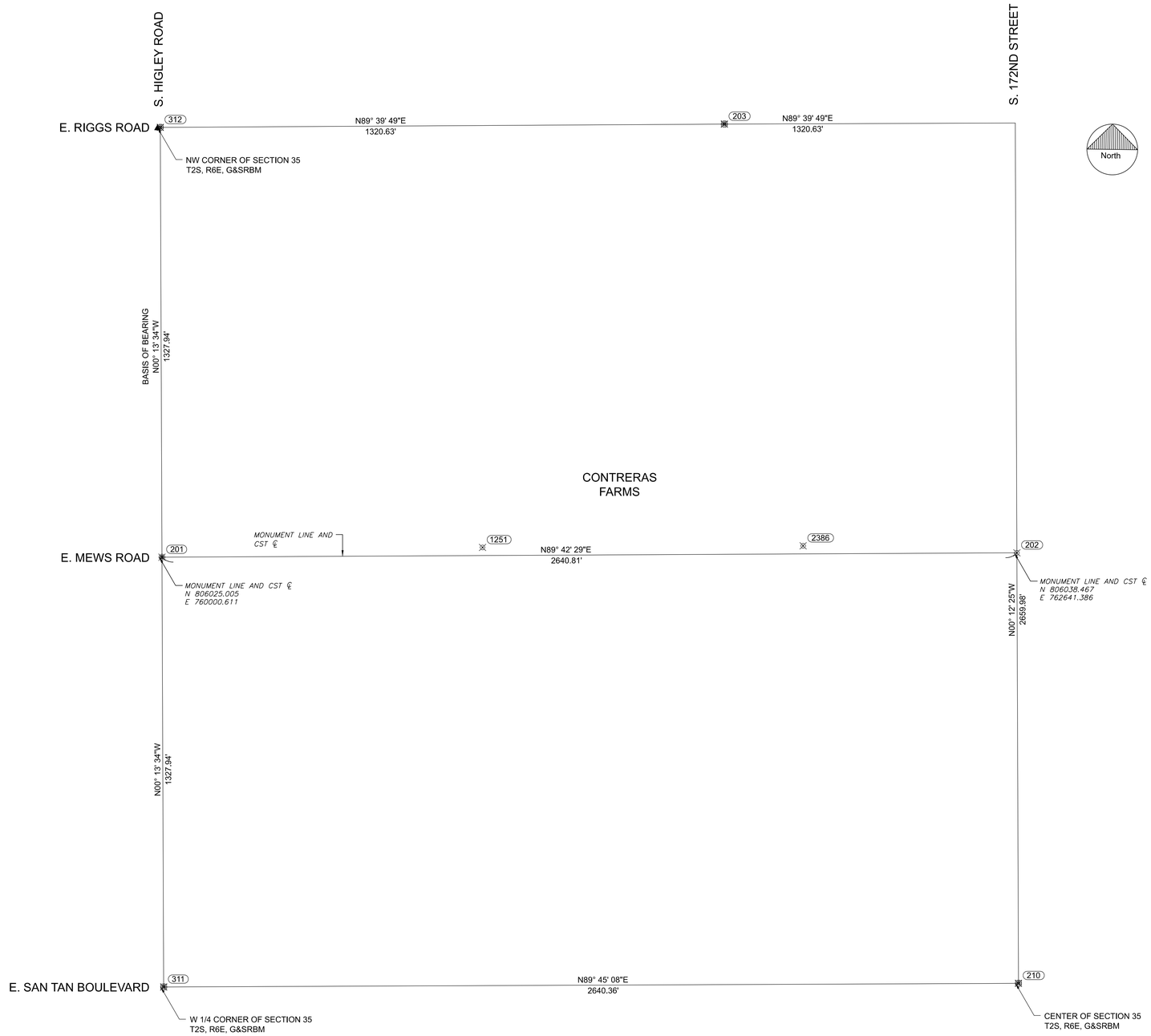
	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc. 1230 West Washington Street, Suite 405 Tempe, AZ 85281

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

GENERAL NOTES

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	T0336	GIL-0(218)T	3	53	
STRUCTURE NO.	LOCATION: MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG G02	
	TRACS NO. T0336 01C					___ OF ___	



LEGEND

(XXX) POINT NUMBER

Point Table				
Point #	Northing	Easting	Elevation	Raw Description
201	806025.000	760000.570	1343.978	BCF
202	806038.428	762641.363	1362.784	RBR
203	807363.093	761737.702	1346.237	BCHH
210	804708.475	762646.236	1372.605	BCHH
311	804697.148	760005.880	1353.024	BCHH
312	807352.868	759995.416	1336.498	BCHH
1251	806055.045	760990.809	1350.202	RBR
2386	806060.128	761981.187	1359.029	RBR

BASIS OF BEARING

BASIS OF BEARING IS STATE PLANE COORDINATE NAD-83 GRID NORTH AND MORE PARTICULARLY THE WEST LINE OF THE NW ¼ OF SEC 35, T2S, R6E, BEING N 00º 13' 34" W.

BENCHMARK

A BRASS CAP IN HANDHOLE LOCATED AT THE INTERSECTION OF RIGGS ROAD AND HIGLEY ROAD, SAID POINT ALSO BEING THE NORTHWEST CORNER OF SECTION 35, TOWNSHIP 2 SOUTH, RANGE 6 EAST, GILA AND SALT RIVER BASE AND MERIDIAN.

ELEVATION 1336.50 NAVD88 AND TOWN OF GILBERT DATUM.

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/11/2025 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

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Tempe, AZ 85281

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

CONTROL SHEET

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

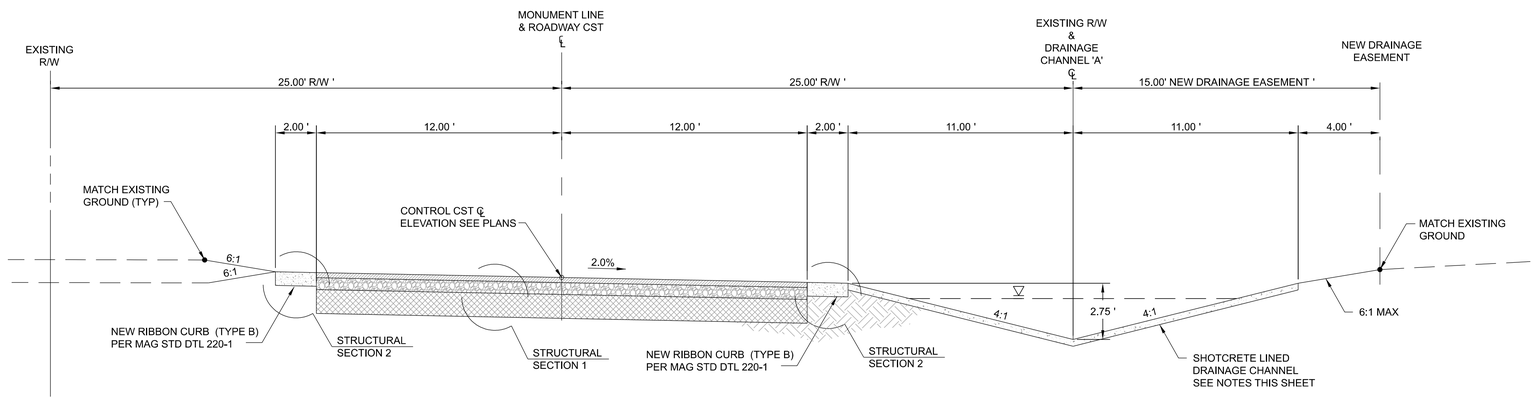
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	4	52	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

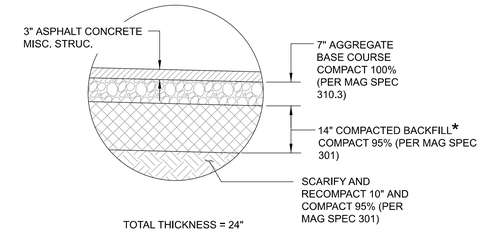
DWG G03

TRACS NO. T0336 01C

___ OF ___

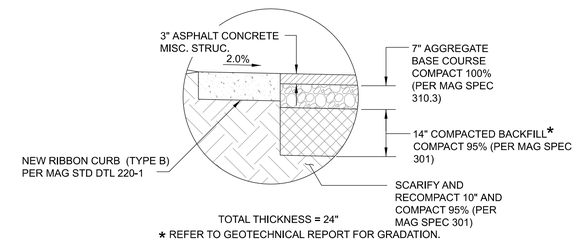


TYPICAL ROADWAY SECTION
STA 10+34 TO STA 23+20
EXCEPTIONS NOTED ON PLAN & PROFILE SHEETS
NOT TO SCALE



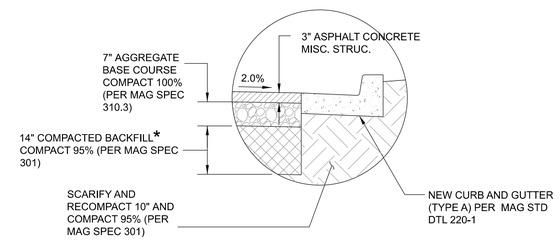
* REFER TO GEOTECHNICAL REPORT FOR GRADATION.

STRUCTURAL SECTION 1
NOT TO SCALE



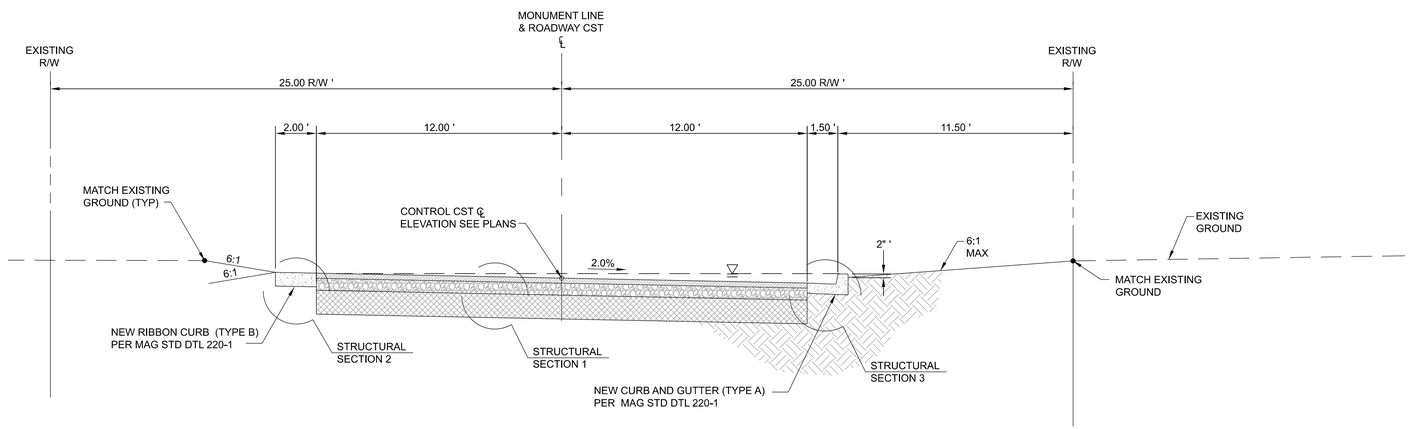
* REFER TO GEOTECHNICAL REPORT FOR GRADATION.

STRUCTURAL SECTION 2
NOT TO SCALE



* REFER TO GEOTECHNICAL REPORT FOR GRADATION.

STRUCTURAL SECTION 3
NOT TO SCALE



TYPICAL ROADWAY SECTION
STA 23+20 TO STA 36+00
EXCEPTIONS NOTED ON PLAN & PROFILE SHEETS
NOT TO SCALE

NOTES:

1. NEW SHOTCRETE CHANNEL SHALL BE A 3 INCH MINIMUM THICKNESS.
2. SHOTCRETE FOR LINING SHALL BE CLASS "A" PER MAG STD. SPECIFICATION 525.
3. SHOTCRETE SHALL HAVE FIBROUS REINFORCEMENT WITH THE FOLLOWING CHARACTERISTICS:
   A. MONOFILAMENT FIBER
   B. SPECIFIC GRAVITY = 0.9
   C. TENSILE STRENGTH = 55 KSI
   D. FIBER LENGTH GRADED = 1/4 TO 3/4
4. CRACKING JOINTS SHALL BE PLACED IN SHOTCRETE LINING TRANSVERSELY AT 10 FOOT INTERVALS.
5. SHOTCRETE LINING SHALL BE FINISHED WITH A ROUGH BROOM FINISH OR LEFT UNFINISHED FOR MAXIMUM ROUGHNESS.
6. SOIL COMPACTION SHALL CONFORM TO ASTM D698.

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/11/2025 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

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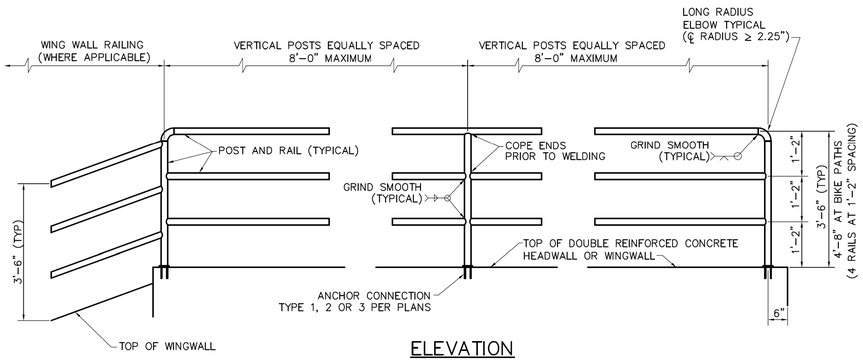
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

TYPICAL SECTIONS

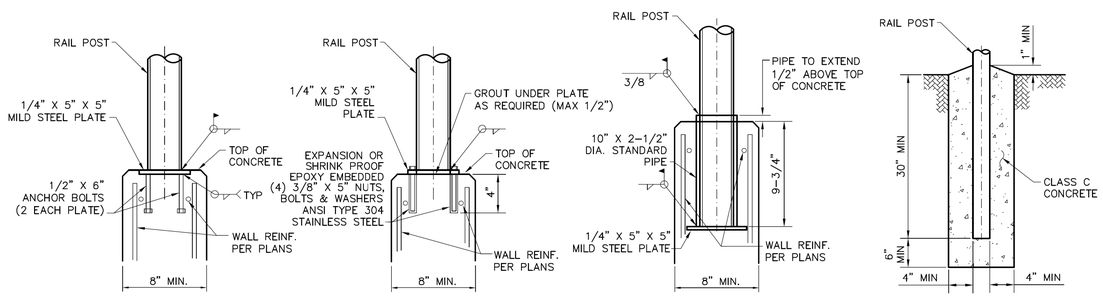
ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	T0336	GIL-0(218)T	5	53	
STRUCTURE NO.	LOCATION: MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG	DT01
	TRACS NO. T0336 01C					___ OF ___	



ELEVATION

NOTES:

1. POSTS AND RAILS SHALL BE 1.90 INCH OUTSIDE DIAMETER, HIGH STRENGTH HEAVY INDUSTRIAL STEEL PIPE CONFORMING TO ASTM F1043 MATERIAL GROUP IA-2 (2.72 LB/FT, MINIMUM YIELD STRENGTH=50 KSI) OR MATERIAL GROUP IC GALVANIZED AFTER FORMING (2.28 LB/FT, MINIMUM YIELD STRENGTH=50 KSI)
2. PAINT RAIL PER MAG SPECIFICATIONS SECTION 530 WHEN REQUIRED BY PLANS, SHOP PRIME WITH RUST INHIBITING PRIMER (FIELD REPAIR PRIMER AS NEEDED). COLOR PER PLANS.
3. VERTICAL POSTS TO BE EVENLY SPACED.
4. REMOVE ALL SHARP EDGES.
5. INSTALL SAFETY RAIL AS REQUIRED BY PLANS OR SPECIFICATIONS.
6. THE EMBEDMENT FOR ANCHOR TYPES 1, 2, AND 3 SHALL BE LOCATED INSIDE THE WALL REINFORCEMENT CAGE.
7. SAFETY RAIL IS NOT TO BE USED AS A PEDESTRIAN BRIDGE RAIL.
8. FOR SAFETY RAIL ON 8" BLOCK (CMU) WALLS, THE TOP COURSE SHALL BE A BOND BEAM WITH 2-#4 LONGITUDINAL REBAR AND GROUT.



TYPE 1
ANCHOR PLATE DETAIL

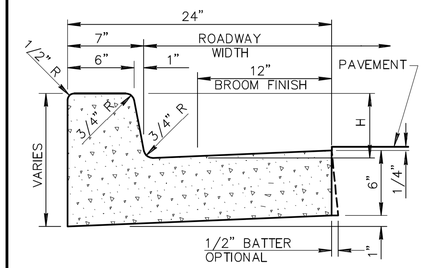
TYPE 2
EXPANSION BOLT DETAIL

TYPE 3
PIPE SLEEVE DETAIL

TYPE 4
GROUND INSTALLATION DETAIL

NOTE: SEE PLANS FOR ANCHORAGE DETAILS FOR ATTACHMENT TO SINGULARLY REINFORCED AND NON-REINFORCED WALLS.

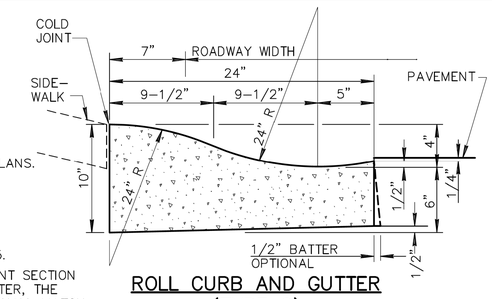
DETAIL NO.			REVISED	DETAIL NO.
145	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	SAFETY RAIL	01-01-2020	145



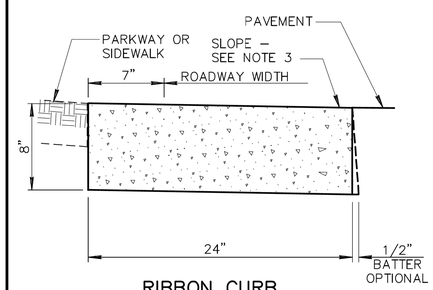
VERTICAL CURB AND GUTTER
(TYPE A)

NOTES: (TYPE A)

1. ALL EXPOSED SURFACES TO BE TROWEL FINISHED EXCEPT AS SHOWN. SEE SECT. 340.
2. H=6" OR AS SPECIFIED ON PLANS.
3. CONTRACTION JOINT SPACING 10' MAXIMUM.
4. EXPANSION JOINTS AS PER SECT. 340.
5. CLASS 'B' CONCRETE PER 725.
6. WHEN THE ADJACENT PAVEMENT SECTION SLOPES AWAY FROM THE GUTTER, THE SLOPE OF THE GUTTER PAN SHALL MATCH PAVEMENT CROSS SLOPE.



ROLL CURB AND GUTTER
(TYPE C)

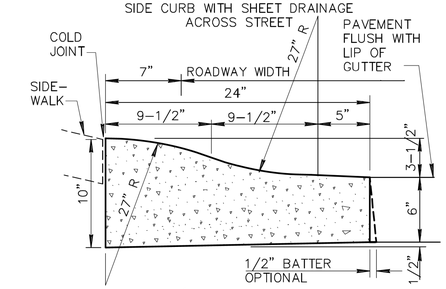


RIBBON CURB
(TYPE B)

NOTES: (TYPE B)

1. CONSTRUCT CURB AND INSTALL 1/2" MASTIC EXPANSION JOINTS, A.S.T.M. D-1751. SECT. 340.
2. BROOM FINISH ALL SURFACES.
3. RIBBON CURB MAY SLOPE TOWARDS PAVEMENT OR PARKWAY AS INDICATED ON PLANS.
4. CONTRACTION JOINT SPACING 10' MAXIMUM.
5. CONCRETE SHALL BE CLASS 'B' PER SECT. 725 AND INSTALLED PER SECT. 505.

SPECIAL SECT. USE FOR HIGH SIDE CURB WITH SHEET DRAINAGE ACROSS STREET



(TYPE D)

NOTES: (C & D)

1. ALL WORK AND MATERIALS SHALL CONFORM TO SECT. 304, 505 AND 725. BROOM FINISH TO EXPOSED SURFACE.
2. CONTRACTION JOINT SPACING 10' MAXIMUM.
3. EXPANSION JOINTS AS PER SECT. 340.
4. CLASS 'B' CONCRETE PER 725.

DETAIL NO.			REVISED	DETAIL NO.
220-1	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	CURB AND GUTTER TYPES A, B, C AND D	01-01-2007	220-1

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 5/1/2024 ARIZONA U.S.A.

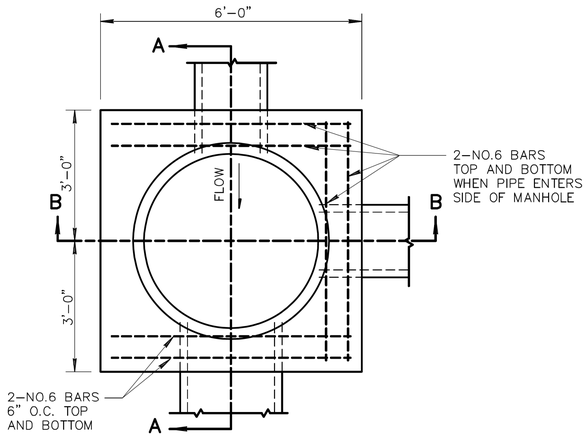
	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

MAG STANDARD DETAILS

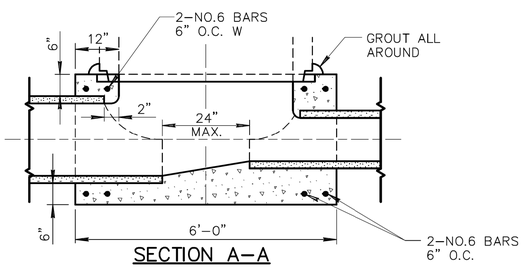
ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 MA GIL	GIL-0(218)T	6	52	
	LOCATION	MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST				DWG	DT02
STRUCTURE NO.	TRACS NO. T0336 01C					___ OF ___	



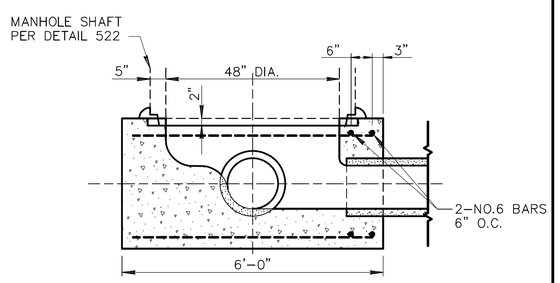
PLAN

NOTES

1. ALL CONCRETE TO BE CLASS 'A' PER SECT. 725, 505.
2. MATCH SPRING LINES OF PIPE ENTERING MANHOLE UNLESS OTHERWISE NOTED.
3. CUT PIPES TO ALLOW SETTING OF 4' DIA. CYLINDRICAL FORM FROM 6" ABOVE MAIN LINE PIPE TO SPRING LINE. CUT PIPE 2" LARGER THAN FORM TO ALLOW 2" CONCRETE OVER ENDS OF ALL CUT PIPE.
4. INVERT AND BASE OF MANHOLE TO BE POURED AND INVERT TO BE SHAPED BY HAND TO MAKE SMOOTH TRANSITION. FINISH WITH RUBBER FLOAT.
5. CENTER MANHOLE ON PIPE JOINT WHERE PIPE CHANGES SIZES, LEAVING A GAP OF 12" MINIMUM, 24" MAXIMUM.

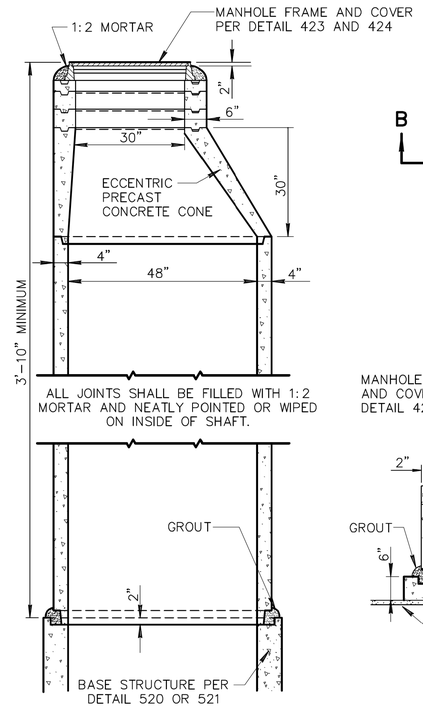


SECTION A-A

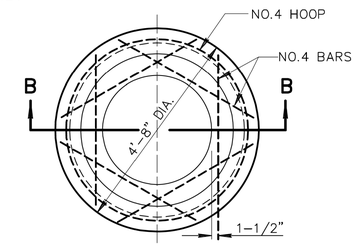


SECTION B-B

DETAIL NO.				REVISED	DETAIL NO.
520	MARICOPA ASSOCIATION of GOVERNMENTS	STANDARD DETAIL ENGLISH	STORM DRAIN MANHOLE BASE (48" AND SMALLER)	01-01-1998	520

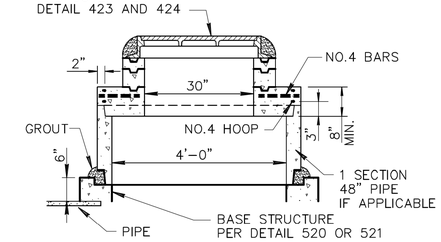


VERTICAL SECTION OF ECCENTRIC MANHOLE SHAFT



PLAN

USE WHERE THERE IS 3'-10" OR LESS COVER OVER PIPE

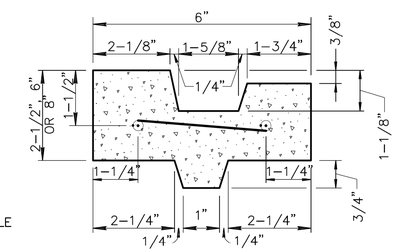


SECTION B-B

SHALLOW MANHOLE

NOTES:

1. PRECAST CONCRETE CONES AND SECTIONS TO BE A.S.T.M. C-478.
2. BRICK MAY BE USED IN LIEU OF OR IN COMBINATION WITH CONCRETE ADJUSTING RINGS.
3. PRECAST CONCRETE SECTIONS 48" DIA PIPE MAY BE FURNISHED IN STANDARD LENGTHS.
4. UNLESS OTHERWISE SHOWN ON PLANS, USE (2) 2-1/2" PRECAST CONCRETE ADJUSTING RINGS ON IMPROVED STREETS AND (4) 2-1/2" RINGS ON UNIMPROVED STREETS.
5. CONCRETE SHALL BE CLASS A PER SECTION 725 AND 505.



2-1/2" RINGS SHALL BE REINFORCED WITH TWO 1/4" ROUND STEEL HOOPS; 6" AND 8" RINGS SHALL BE REINFORCED WITH FOUR 1/4" HOOPS, TIED WITH NO. 14 A.S.& W. GAUGE WIRE 8" O.C.

REINFORCED CONCRETE ADJUSTING RING

DETAIL NO.				REVISED	DETAIL NO.
522	MARICOPA ASSOCIATION of GOVERNMENTS	STANDARD DETAIL ENGLISH	STORM DRAIN MANHOLE SHAFT	01-01-2015	522

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/11/2025 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

MAG STANDARD DETAILS

ROUTE ____ MILEPOST ____ STRUCTURE NO. ____

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	7	52	____

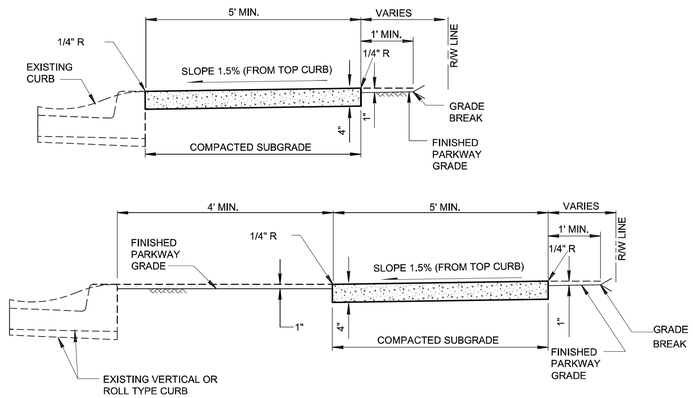
LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG __DT04__

TRACS NO. T0336 01C

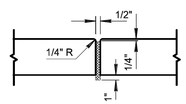
____ OF ____

WHICH MAY COME INTO CONTACT WITH DRINKING WATER, SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.

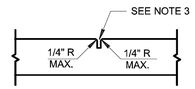


NOTES:

1. SIDEWALK CONSTRUCTION SHALL CONFORM TO SECTION 340.
2. EXPANSION JOINTS SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER, PER SECTION 729.
3. LARGE AGGREGATE, IN CONTRACTION JOINT SHALL BE SEPARATED TO A DEPTH OF 1", FINISH DEPTH SHALL BE A MINIMUM OF 3/4".
4. EXPANSION JOINTS SHALL CONFORM TO SECTION 340, BE INSTALLED PRIOR TO CONCRETE PLACEMENT, AND AT A MAXIMUM SPACING OF 50'.
5. CONCRETE SHALL BE CLASS 'B' PER SECTION 725.
6. WHEN SIDEWALK AND ADJACENT CURB ARE CONSTRUCTED MONOLITHICALLY, ALL EXPANSION AND CONTRACTION JOINTS SHALL EXTEND ACROSS THE CURB.



EXPANSION JOINT

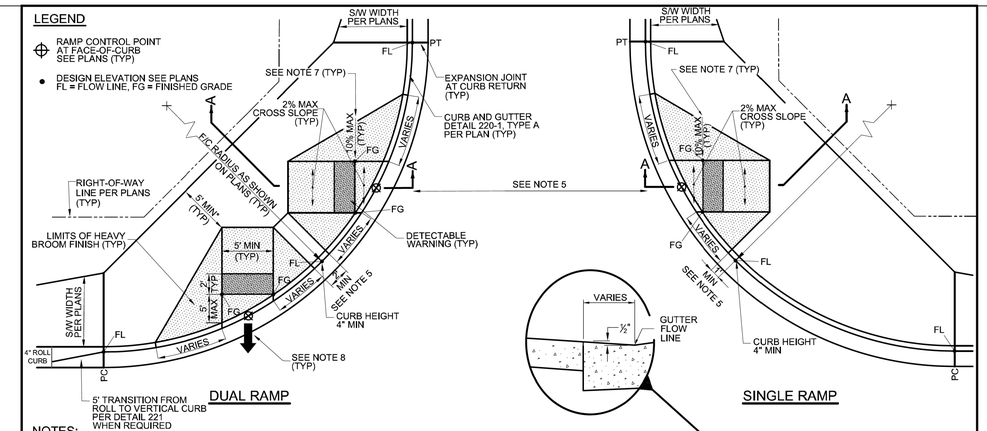


CONTRACTION JOINT

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
230	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	SIDEWALKS	01-01-2014	230

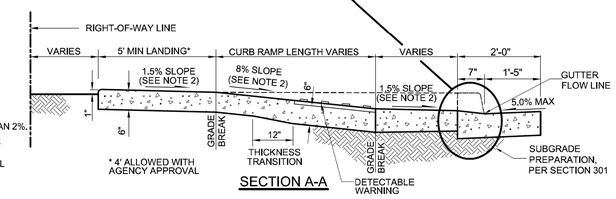
LEGEND

- RAMP CONTROL POINT AT FACE-OF-CURB SEE PLANS (TYP)
- DESIGN ELEVATION SEE PLANS FL = FLOW LINE, FG = FINISHED GRADE



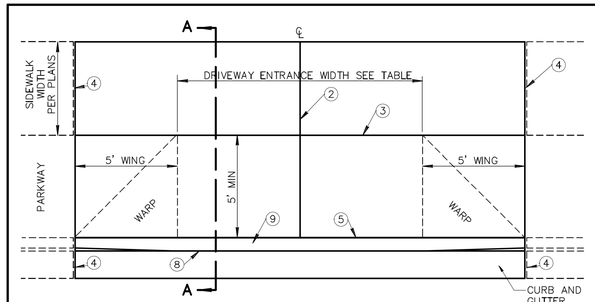
NOTES:

1. CLASS 'A' CONCRETE PER SECTION 725, PC TO PT.
2. CONSTRUCTION INCLUDING JOINTS AND MAXIMUM SLOPES SHALL CONFORM TO SECTION 340.
3. WALKWAY SURFACE TO MATCH 1.5% SLOPE FROM TOP OF CURB.
4. DETECTABLE WARNING IS TO COMPLY WITH THE JURISDICTIONAL AGENCY'S REQUIREMENTS.
5. DISTANCE BETWEEN RAMPS MAY BE ADJUSTED TO IMPROVE ALIGNMENT WITH RECEIVING RAMP WHEN ALLOWED BY THE JURISDICTIONAL AGENCY.
6. SPECIAL DESIGN IS REQUIRED FOR GUTTER GRADES GREATER THAN 2%.
7. WING SLOPE SHALL NOT EXCEED 10% MEASURED PERPENDICULAR TO RAMP.
8. RAMP ALIGNMENT SHOULD CONNECT CONTROL POINT TO CONTROL POINT OF RECEIVING RAMP WITHIN 5 FEET.

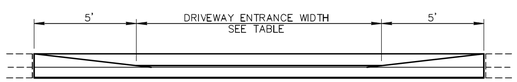


SECTION A-A

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
237-1	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	25' - 35' R - DIRECTIONAL CURB RAMP ATTACHED SIDEWALK	01-01-2018	237-1

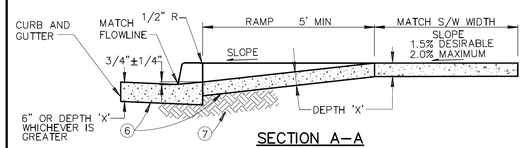


DRIVEWAY WITH DETACHED SIDEWALK



NOTES:

1. DEPRESSED CURB SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE TYPE OF CURB USED AT THAT LOCATION.
2. CONTRACTION JOINT ON D/W CENTERLINE.
3. CONTRACTION JOINT.
4. 1/2-INCH EXPANSION JOINTS SHALL COMPLY WITH SECTION 340.
5. BACK OF CURB – CONSTRUCTION JOINT.
6. CONCRETE CLASS AS NOTED IN TABLE. CONCRETE PER SECTION 725.
7. SUBGRADE PREPARATION, SECT. 301.
8. FLOW LINE OF GUTTER.
9. DEPRESSED CURB.
10. SECT. A–A AND ELEVATION: D/W SHOWN WITH VERTICAL CURB AND GUTTER, ROLL TYPE CURB AND GUTTER TREATED SIMILARLY.
11. ROUGH BROOM FINISH FULL WIDTH OF RAMP AND WINGS.
12. TROWEL AND USE LIGHT HAIR BROOM FINISH FOR WALKWAY AREA.
13. 'DRIVEWAY ENTRANCE WIDTH' IS THE DRIVEWAY WIDTH PLUS ADDITIONAL WIDENING REQUIRED BY THE LOCAL JURISDICTION.
14. ELEVATION AT TOP OF DRIVEWAY RAMP SHALL BE EQUAL TO OR HIGHER THAN NORMAL CURB ELEVATION.



SECTION A–A

COMMERCIAL AND INDUSTRIAL				
DRIVEWAY ENTRANCE WIDTH	MIN.	MAX.	CLASS	DEPTH 'X'
COMMERCIAL	* 16'	40'	A	9"
INDUSTRIAL	* 16'	40'	A	9"
*24' MIN. FOR TWO WAY TRAFFIC				

RESIDENTIAL				
DRIVEWAY ENTRANCE WIDTH	MIN.	MAX.	CLASS	DEPTH 'X'
MAJOR STREET	16'	30'	B	5"
COLLECTOR STREET	* 12'	30'	B	5"
LOCAL STREET	12'	30'	B	5"
*16' DESIRABLE				

DETAIL NO.	STANDARD DETAIL		REVISED	DETAIL NO.
250–1	MARICOPA ASSOCIATION of GOVERNMENTS ENGLISH	DRIVEWAY ENTRANCES WITH DETACHED SIDEWALK	01–01–2014	250–1

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN (Be Signed) 8/11/2025 ARIZONA U.S.A.

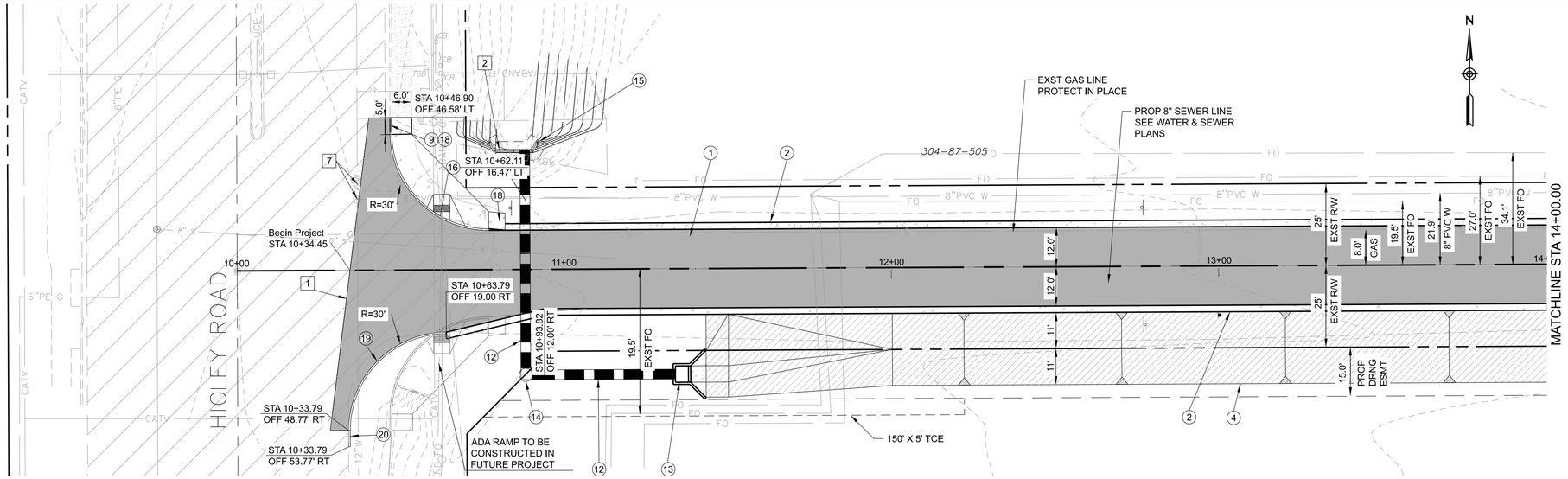
	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

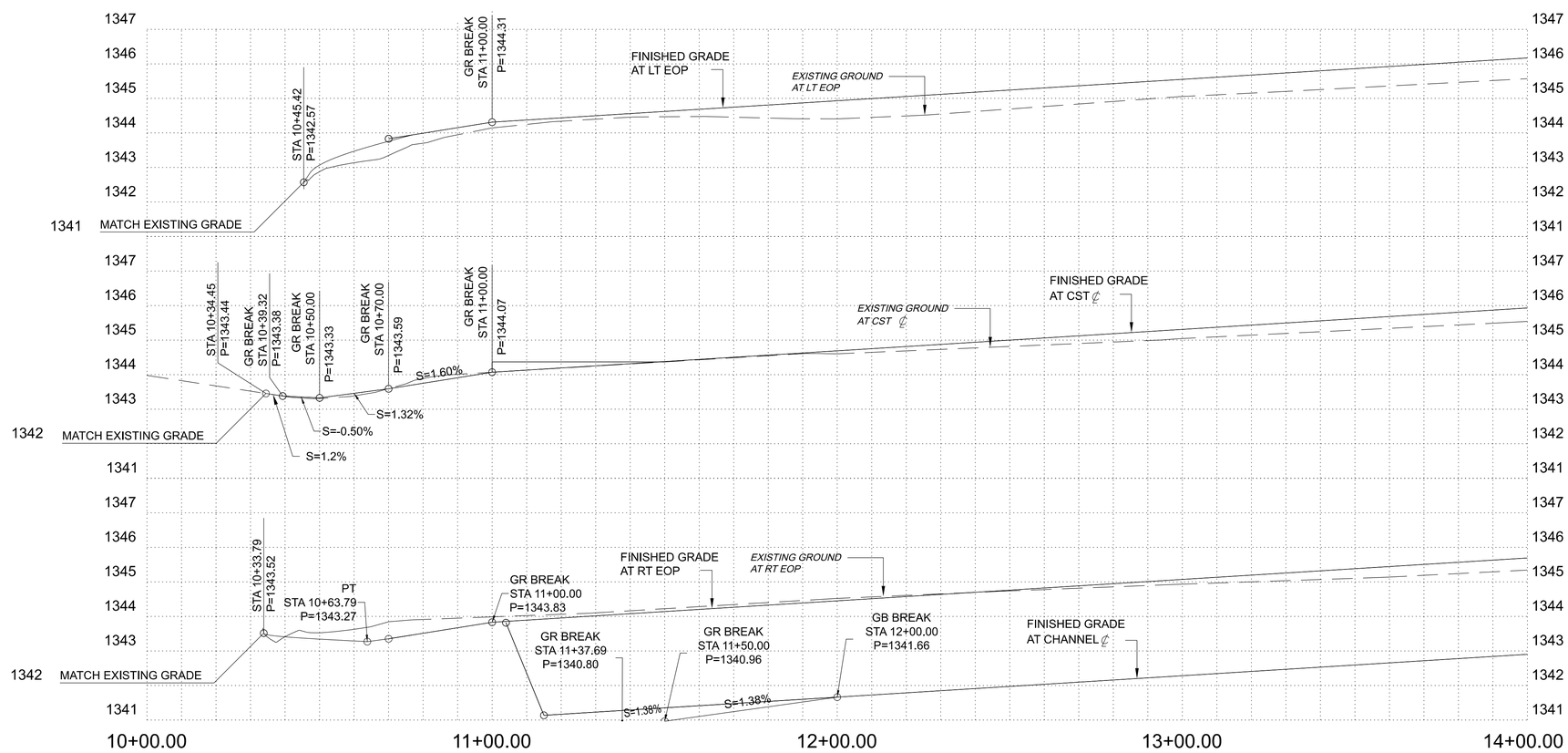
WSP USA Inc. 1230 West Washington Street, Suite 405 Tempe, AZ 85281

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

MAG STANDARD DETAILS

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 MA GIL	GIL-0(218)T	8	52	
STRUCTURE NO.	LOCATION: MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG	DT03
	TRACS NO. T0336 01C						OF





REMOVAL & RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	SAWCUT & REMOVE EXISTING ASPHALT PAVEMENT	SY	225
2	REMOVE EXISTING METAL END SECTION AND SAWCUT A PORTION OF PIPE TO BE FLUSH WITH NEW HEADWALL. TO BE PAID UNDER ITEM 5041997	EA	1
7	RESET VALVE PER MAG STD DTL 391-1 & 391-2	EA	2

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	3" ASPHALT CONCRETE SURFACE COURSE	TON	162
	7" AGGREGATE BASE COURSE	CY	197
	14" SELECT FILL	CY	420
	SCARIFY AND RECOMPACT	SY	1012
2	RIBBON CURB (TYPE B) PER MAG STD DTL 220-1	LF	1035
4	SHOTCRETE LINED DRAINAGE CHANNEL PER TYPICAL ROADWAY SECTION ON DWG DT01	SY	564
9	CONSTRUCT CURB & GUTTER TYPE 'A' PER MAG STD DTL 220-1	LF	5
12	INSTALL 36" REINFORCED CONCRETE STORM DRAIN PIPE (CLASS III). INSTALLATION PER MAG SPEC 735	LF	111
13	INLET WITH TRASH RACK (MODIFIED) PER MAG STD DTL 502-1 & SHT C02	EA	1
14	STORM DRAIN SHALLOW MANHOLE PER MAG STD DTL 520 & 522	EA	1
15	HEADWALL PER SHEET S02. SAFETY RAIL 3'-6" HIGH PER MAG STD DTL 145, TYPE '1' ANCHOR. GRADE OUTLET PER SHT C01. PROTECT OUTLET WITH RIPRAP PER FLOOD CONTROL DISTRICT OF MARICOPA COUNTY HYDRAULICS MANUAL SECTION 6.5.	EA	1
16	CONSTRUCT 25' DIRECTIONAL CURB RAMP PER MAG STD DTL 237-1	EA	1
18	CONSTRUCT CONC. SIDEWALK PER MAG STD DTL 230	SF	83
19	CONSTRUCT SINGLE CURB, TYPE A, PER MAG STD DTL 222	LF	47
20	CONSTRUCT SINGLE CURB TERMINATION PER MAG STD DTL 222	LF	5

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 01/24/24 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

MEWS ROAD PAVING PLAN & PROFILE
STATION 10+00 TO STATION 14+00

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

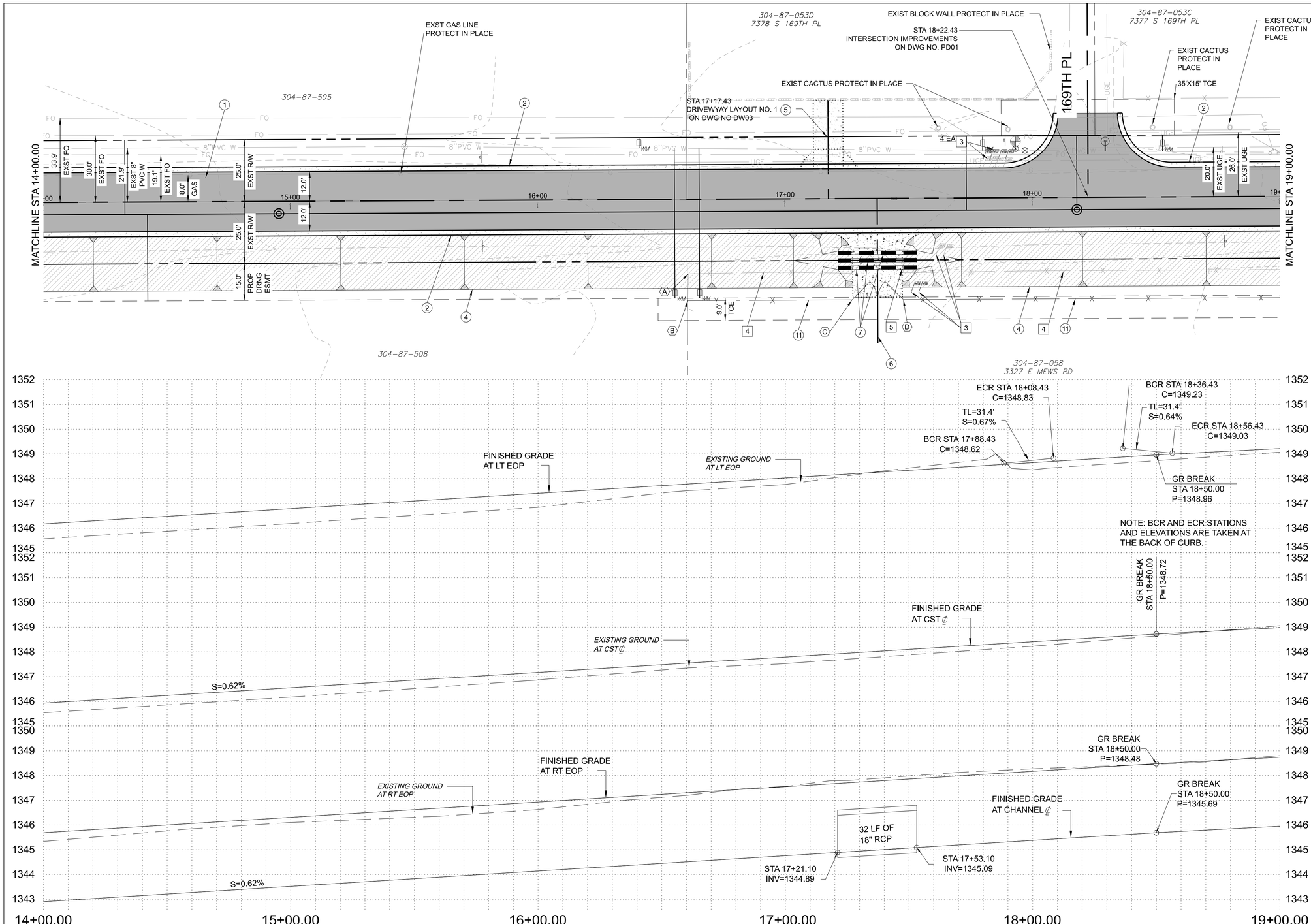
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	T0336	GIL-0(218)T	9	53	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG PP01

TRACS NO. T0336 01C

___ OF ___



REMOVAL & RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
3	RELOCATE EXISTING MAILBOXES; REFER TO ITEM 2020061 IN THE SPECS. FOR INSTALLATION	EA	6
4	REMOVE EXISTING STEEL MESH FENCE. INSTALL NEW FENCE PRREMOVAL OF EXISTING FENCE	LF	231
5	RELOCATE EXISTING GATE. SEE POINTS 'C' AND 'D' IN THE FENCE LOCATIONS TABLE	EA	1

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
	3" ASPHALT CONCRETE SURFACE COURSE	TON	226
1	7" AGGREGATE BASE COURSE	CY	275
	14" SELECT FILL	CY	560
	SCARIFY AND RECOMPACT	SY	1415
2	RIBBON CURB (TYPE B) PER MAG STD DTL 220-1	LF	995
5	CONCRETE DRIVEWAY PER MAG STD DTL 259, MODIFIED FOR RIBBON CURB	SF	352
4	SHOTCRETE LINED DRAINAGE CHANNEL PER TYPICAL ROADWAY SECTION ON DWG DT01	SY	798
6	CONCRETE DRIVEWAY AND COMPACTED BASE COURSE, SEE SHEET DW01	SF	563
7	INSTALL 18" REINFORCED CONCRETE STORM DRAIN PIPE (CLASS III)	LF	96
11	STEEL MESH FENCE 4' HIGH PER ADOT STD C-12.10, TYPE 4 WOVEN WIRE	LF	218

PROPOSED STEEL MESH FENCE LOCATIONS

	STATION	OFFSET
A	STA 16+60.00	30.00' RT
B	STA 16+60.00	41.00' RT
C	STA 17+27.00	41.00' RT
D	STA 17+48.00	41.00' RT

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 01/24/2024 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

MEWS ROAD PAVING PLAN & PROFILE
STATION 14+00 TO STATION 19+00

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

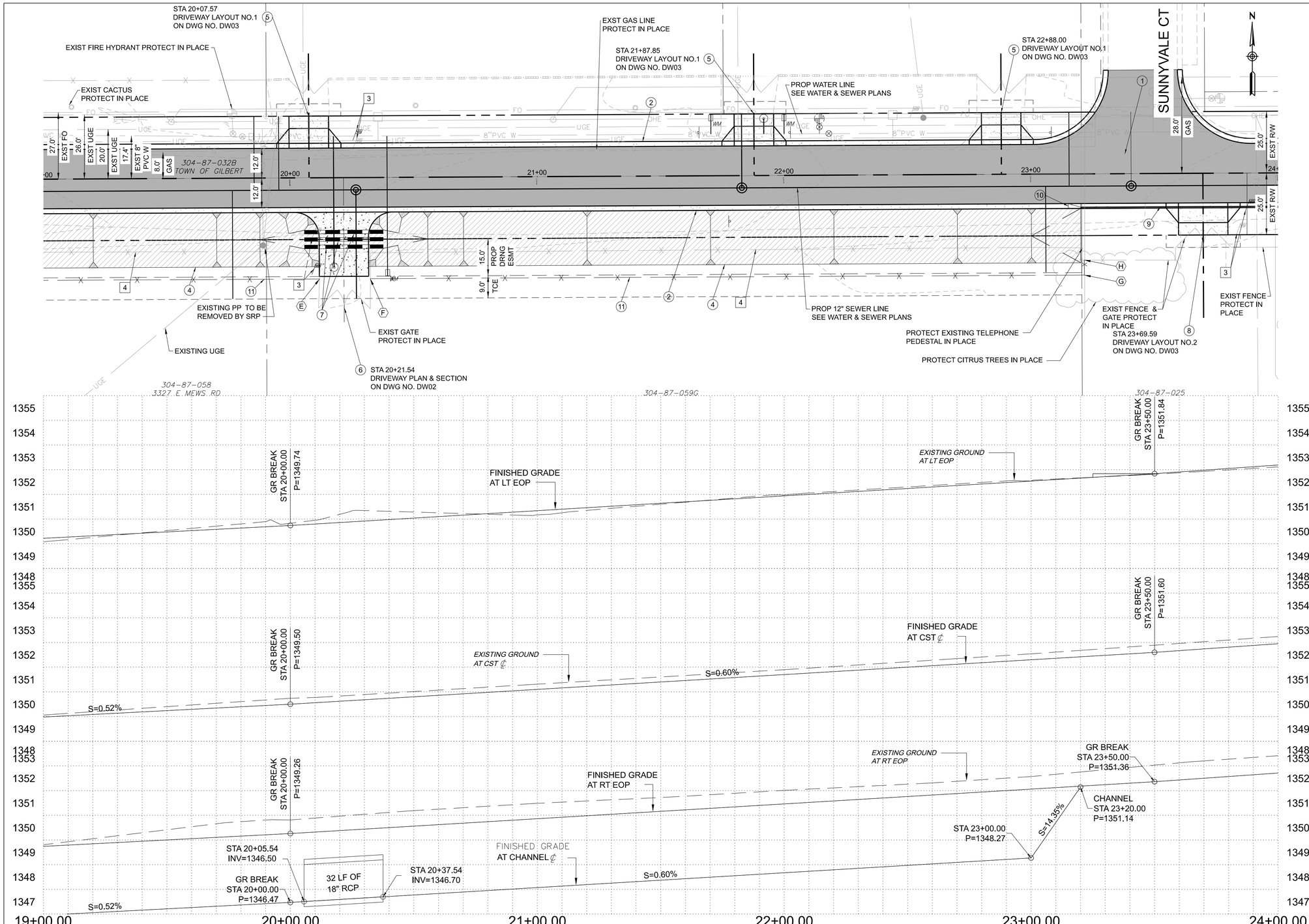
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	T0336	GIL-0(218)T	10	53	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG PP02

TRACS NO. T0336 01C

___ OF ___



REMOVAL & RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
3	RELOCATE EXISTING MAILBOXES; REFER TO ITEM 2020061 IN THE SPECS. FOR INSTALLATION	EA	3
4	REMOVE EXISTING STEEL MESH FENCE	LF	422

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	3" ASPHALT CONCRETE SURFACE COURSE	TON	213
	7" AGGREGATE BASE COURSE	CY	259
	14" SELECT FILL	CY	520
	SCARIFY AND RECOMPACT	SY	1333
2	RIBBON CURB (TYPE B) PER MAG STD DTL 220-1	LF	906
4	SHOTCRETE LINED DRAINAGE CHANNEL PER TYPICAL ROADWAY SECTION ON DWG DT01	SY	1047
5	CONCRETE DRIVEWAY PER MAG STD DTL 250, MODIFIED FOR RIBBON CURB	SF	659
6	CONCRETE DRIVEWAY AND COMPACTED BASE COURSE, SEE SHEET DW02	SF	563
7	INSTALL 18" REINFORCED CONCRETE STORM DRAIN PIPE (CLASS III). INSTALLATION PER MAG SPEC 735	LF	96
8	CONCRETE DRIVEWAY PER MAG STD DTL 250	SF	250
9	CURB & GUTTER PER MAG STD DTL 220-1, TYPE 'A', H=6"	LF	80
10	CURB & GUTTER TRANSITION, SEE SHEET PD01	LF	5
11	STEEL MESH FENCE 4' HIGH PER ADOT STD C-12.10, TYPE 4, WOVEN WIRE	LF	406

PROPOSED STEEL MESH FENCE LOCATIONS

	STATION	OFFSET
E	STA 20+11.67	41.00' RT
F	STA 20+32.15	41.00' RT
G	STA 23+21.35	41.00' RT
H	STA 23+21.34	35.00' RT

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/16/2024 ARIZONA, U.S.A.

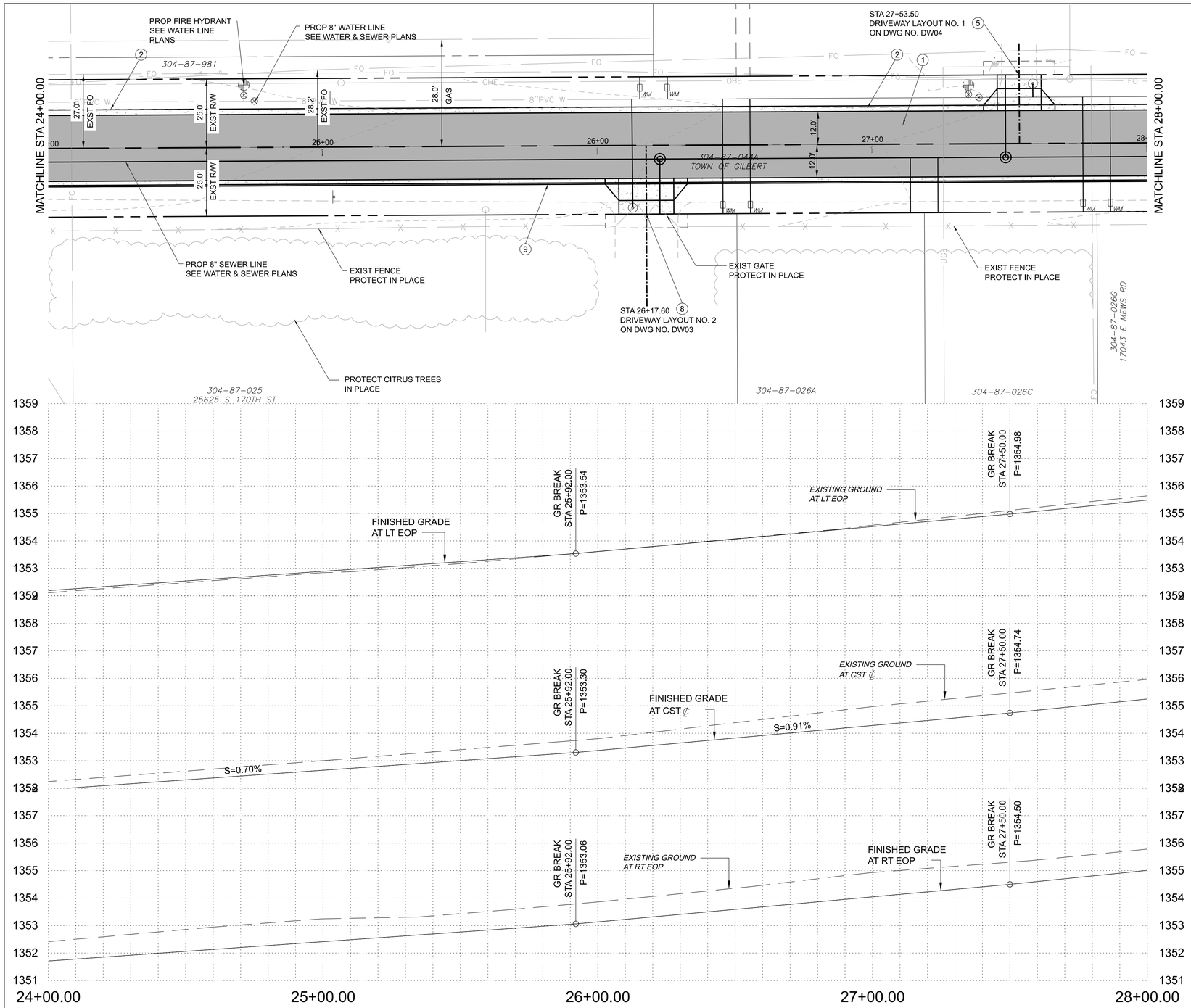
	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

MEWS ROAD PAVING PLAN & PROFILE
STATION 19+00 TO STATION 24+00

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	T0336	GIL-0(218)T	11	53	
STRUCTURE NO.	LOCATION: MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG	PP03
	TRACS NO. T0336 01C					___ OF ___	



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	3" ASPHALT CONCRETE SURFACE COURSE	TON	210
	7" AGGREGATE BASE COURSE	CY	247
	14" SELECT FILL	CY	420
	SCARIFY AND RECOMPACT	SY	1067
2	RIBBON CURB (TYPE B) PER MAG STD DTL 220-1	LF	400
5	CONCRETE DRIVEWAY PER MAG STD DTL 250, MODIFIED FOR RIBBON CURB	SF	456
8	CONCRETE DRIVEWAY PER MAG STD DTL 250	SF	250
9	CURB & GUTTER PER MAG STD DTL 220-1, TYPE 'A', H=6"	LF	400

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/16/2024 ARIZONA U.S.A.

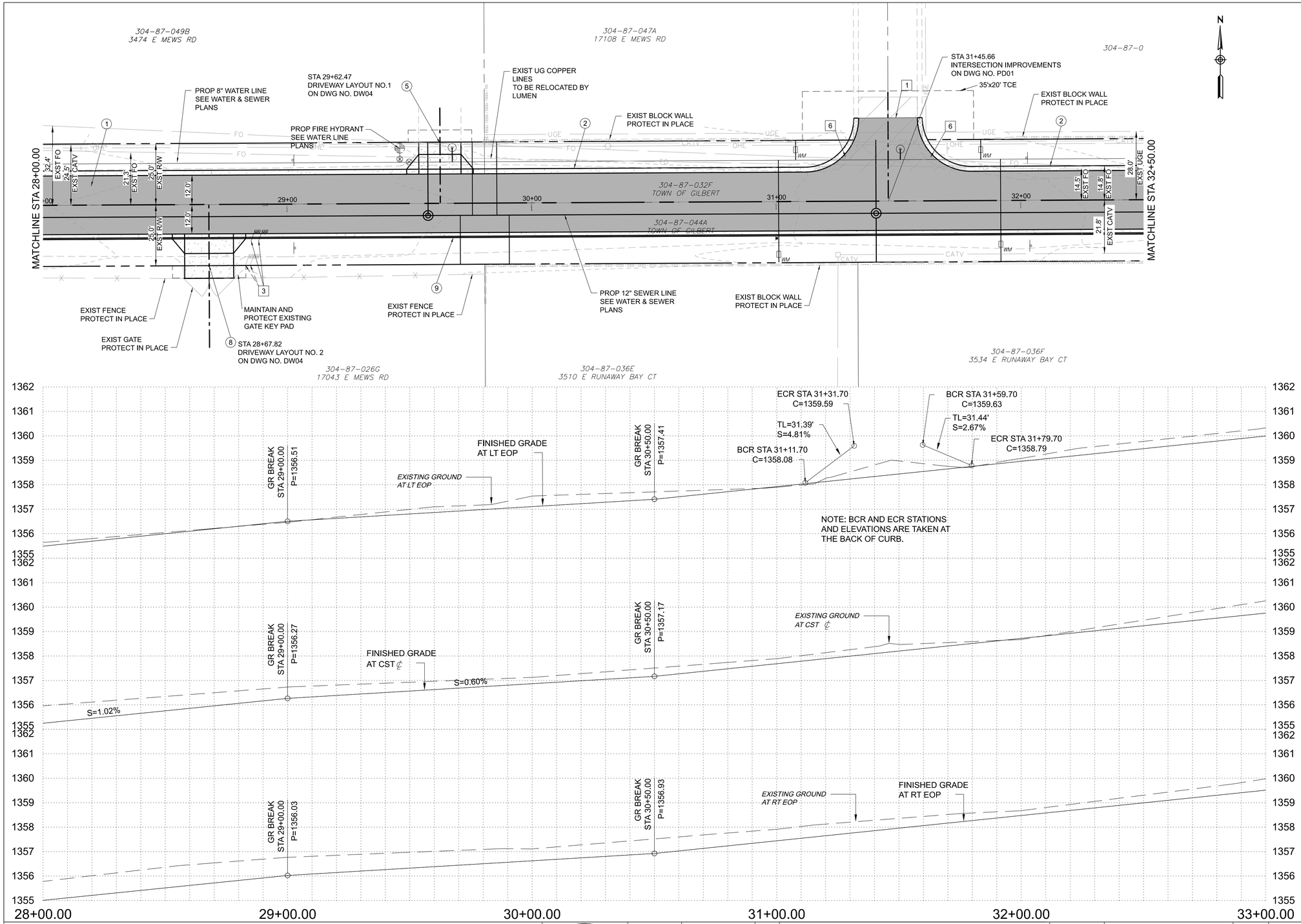
	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

MEWS ROAD PAVING PLAN & PROFILE
STATION 24+00 TO STATION 28+00

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 MA GIL	GIL-0(218)T	12	52	
STRUCTURE NO.	LOCATION: MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG	PP04
	TRACS NO. T0336 01C					___ OF ___	



REMOVAL & RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	SAWCUT & REMOVE EXISTING ASPHALT PAVEMENT	SY	81
3	RELOCATE EXISTING MAILBOXES; REFER TO ITEM 2020061 IN THE SPECS. FOR INSTALLATION	EA	2
6	REMOVE EXISTING RIBBON CURB	LF	59

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
	3" ASPHALT CONCRETE SURFACE COURSE	TON	205
1	7" AGGREGATE BASE COURSE	CY	249
	14" SELECT FILL	CY	500
	SCARIFY AND RECOMPACT	SY	1282
2	RIBBON CURB (TYPE B) PER MAG STD DTL 220-1	LF	445
5	CONCRETE DRIVEWAY PER MAG STD DTL 250, MODIFIED FOR RIBBON CURB	SF	216
8	CONCRETE DRIVEWAY PER MAG STD DTL 250	SF	358
9	CURB & GUTTER PER MAG STD DTL 220-1, TYPE 'A', H=6"	LF	450

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/1/2024 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

MEWS ROAD PAVING PLAN & PROFILE
STATION 28+00 TO STATION 32+50

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

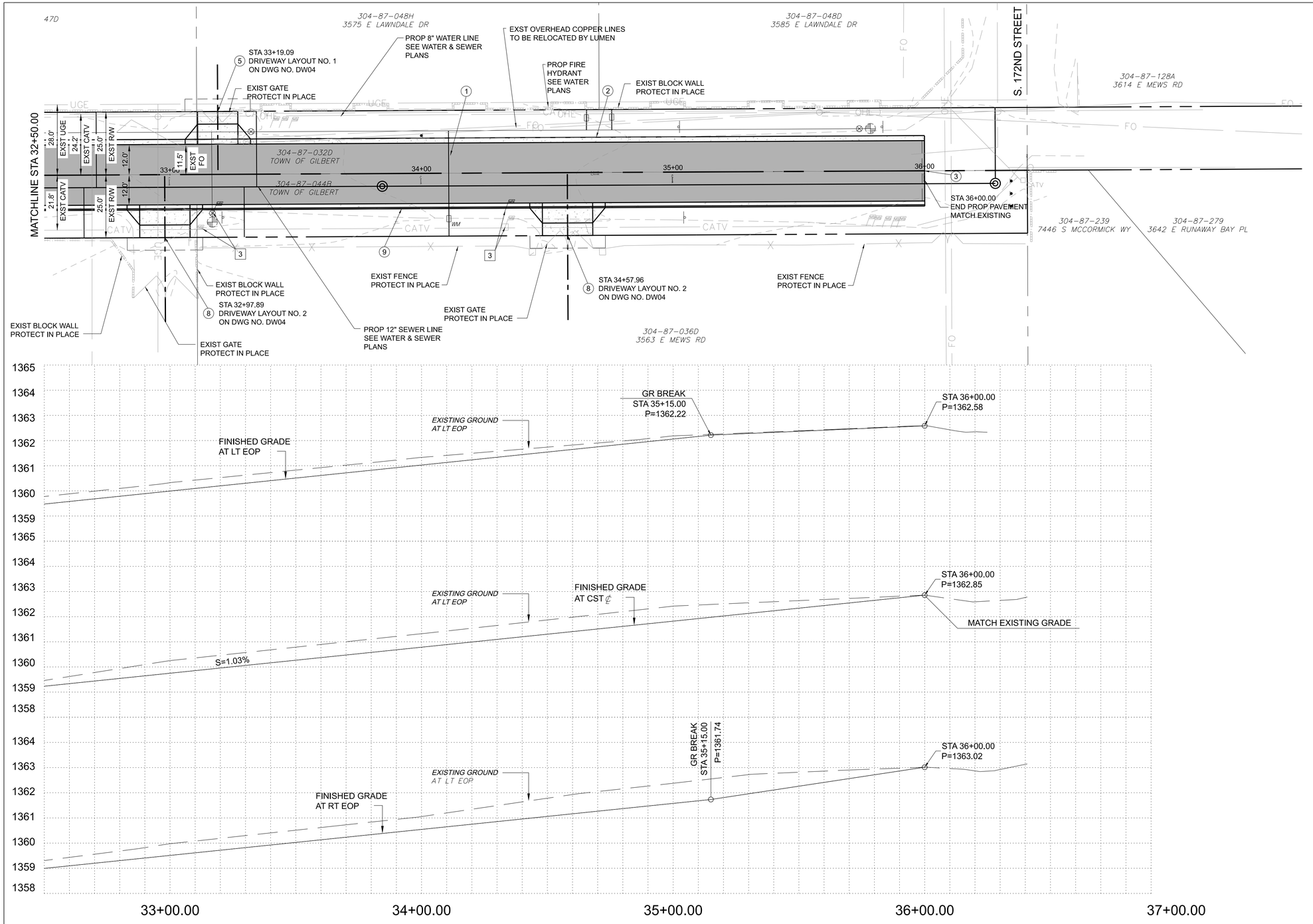
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	T0336	GIL-0(218)T	13	53	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG PP05

TRACS NO. T0336 01C

___ OF ___



REMOVAL & RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
3	RELOCATE EXISTING MAILBOXES; REFER TO ITEM 2020061 IN THE SPECS. FOR INSTALLATION	EA	2

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	3" ASPHALT CONCRETE SURFACE COURSE	TON	139
	7" AGGREGATE BASE COURSE	CY	169
	14" SELECT FILL	CY	370
	SCARIFY AND RECOMPACT	SY	870
2	RIBBON CURB (TYPE B) PER MAG STD DTL 220-1	LF	350
3	ASPHALT PAVEMENT EDGE PER MAG STD DTL 201 TYPE 'A'	LF	24
5	CONCRETE DRIVEWAY PER MAG STD DTL 250, MODIFIED FOR RIBBON CURB	SF	206
8	CONCRETE DRIVEWAY PER MAG STD DTL 250	SF	500
9	CURB & GUTTER PER MAG STD DTL 220-1, TYPE 'A', H=6"	LF	350

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/11/2025 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

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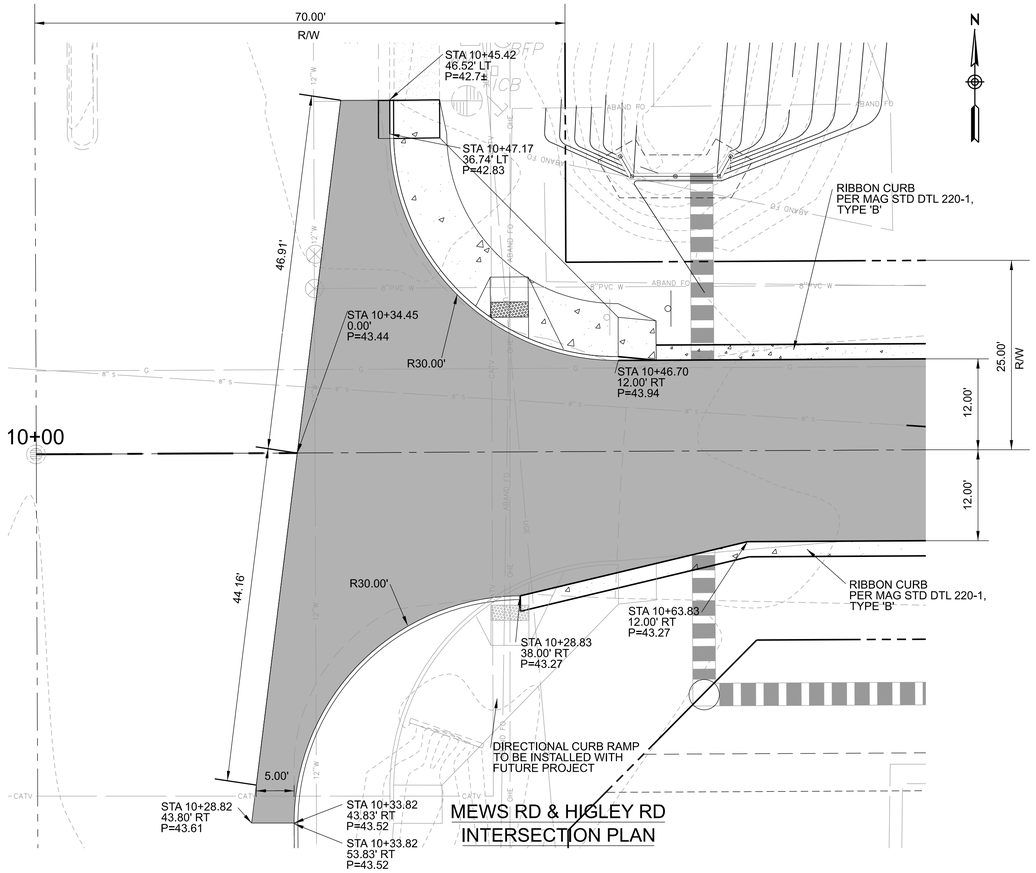
Tempe, AZ 85281

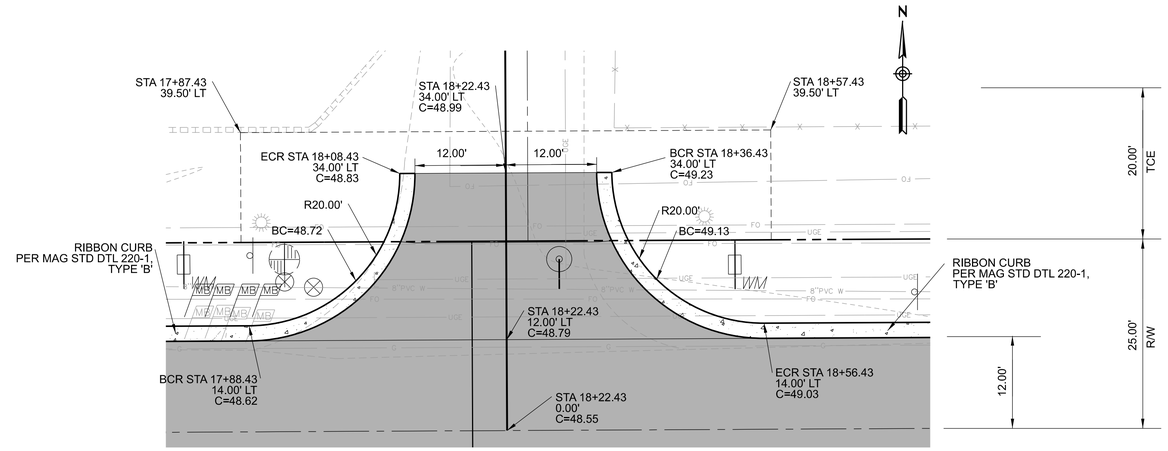
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SERVICES

MEWS ROAD PAVING PLAN & PROFILE
STATION 32+50 TO STATION 36+41

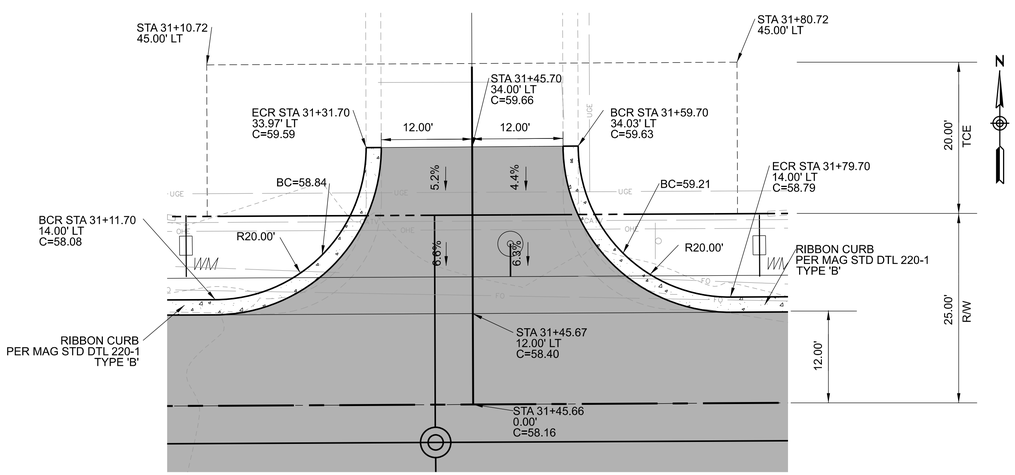
ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	T0336	GIL-0(218)T	14	53	
LOCATION	MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG	PP06
STRUCTURE NO.	TRACS NO. T0336 01C					___ OF ___	



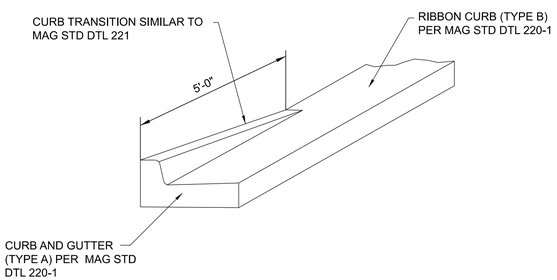
MEWS RD & HIGLEY RD
INTERSECTION PLAN



169TH PLACE
INTERSECTION PLAN
STA 18+22.43



INTERSECTION PLAN
STA 31+45.66



CURB AND GUTTER TRANSITION
NOT TO SCALE

Mailbox	Station	Offset
1	17+50.60	37.94 Rt
2	17+53.74	37.99 Rt
3	17+79.96	15.34 Lt
4	17+82.63	15.18 Lt
5	17+85.94	15.16 Lt
6	17+88.87	15.15 Lt
7	20+08.91	38.93 Rt
8	20+25.39	15.05 Lt
9	23+86.82	15.07 Rt
10	28+85.04	14.93 Rt
11	28+88.12	14.93 Rt
12	33+17.15	15.19 Rt
13	34+33.17	14.98 Rt

SEE SPECIAL PROVISIONS FOR CONSTRUCTION REQUIREMENTS

MAILBOX RELOCATIONS
NOT TO SCALE

Registered Professional Engineer (Civil)
CERTIFICATE NO. 70847
MICHAEL J SCHOEN
Date Signed 8/16/2024
ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

INTERSECTION IMPROVEMENTS
AND DETAILS

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

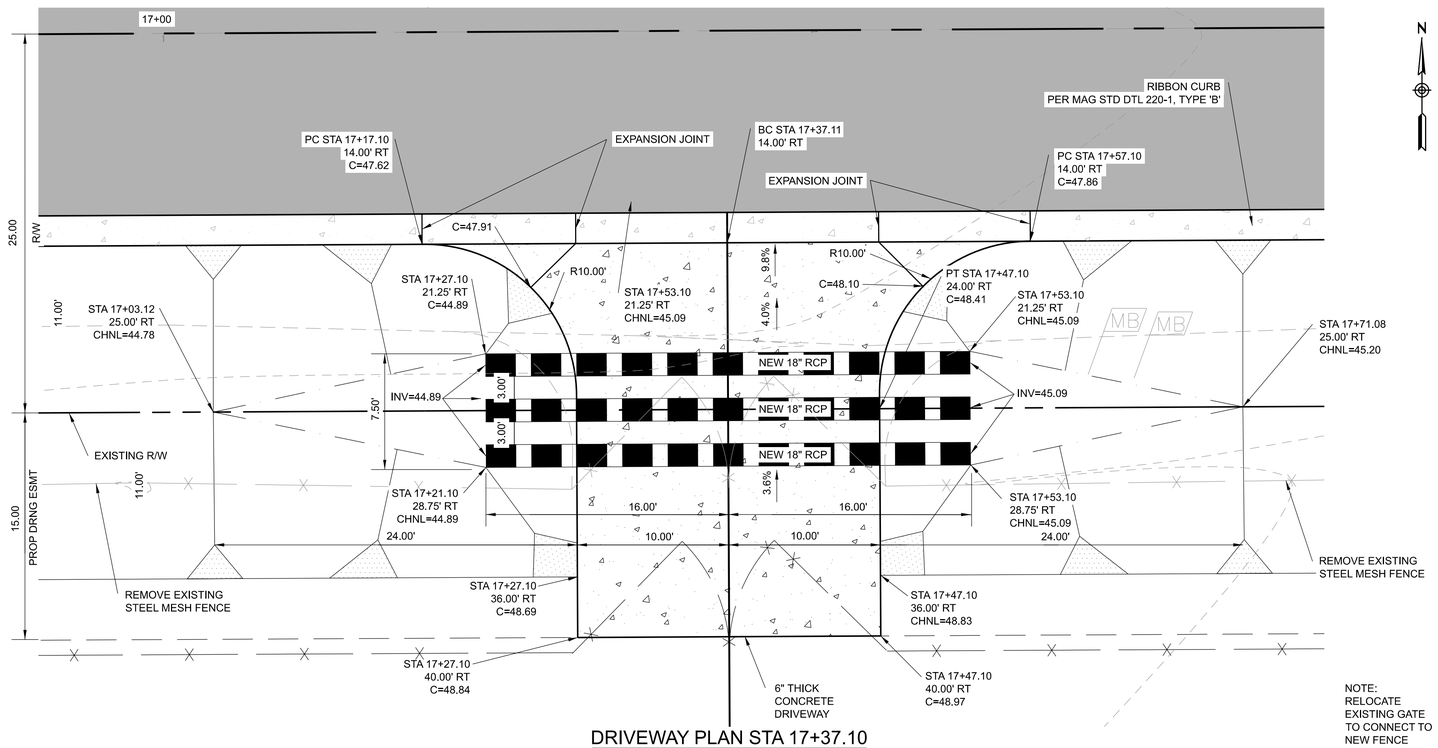
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	15	52	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

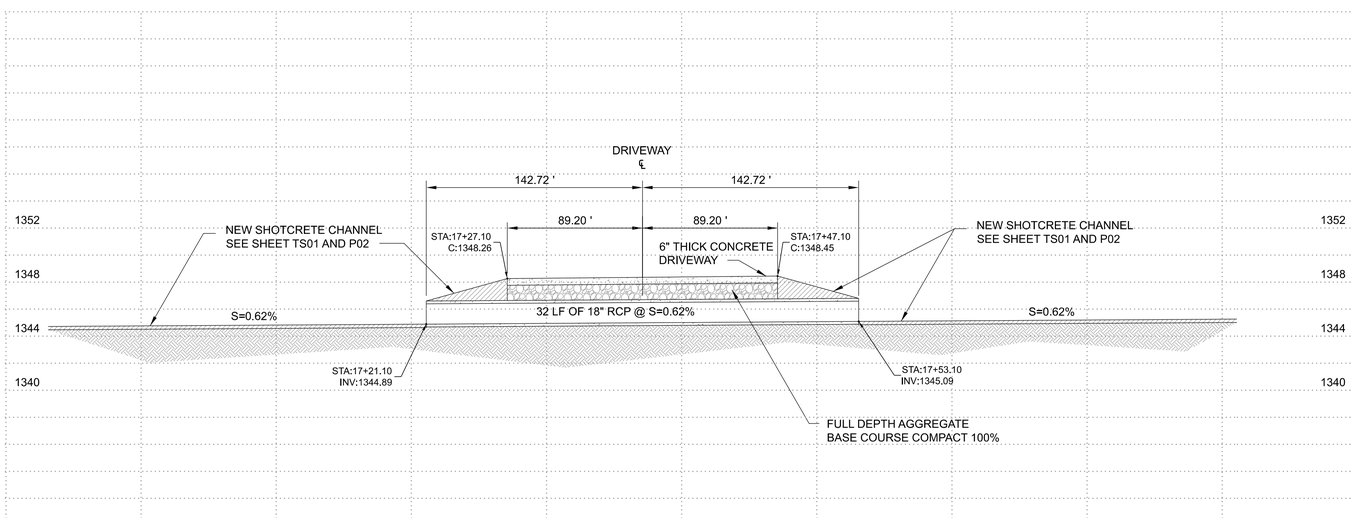
DWG PD01

TRACS NO. T0336 01C

___ OF ___



DRIVEWAY PLAN STA 17+37.10



SECTION A-A
SCALE 1" = 5'-0"

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/16/2024 ARIZONA, U.S.A.

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

DRIVEWAY PLAN

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

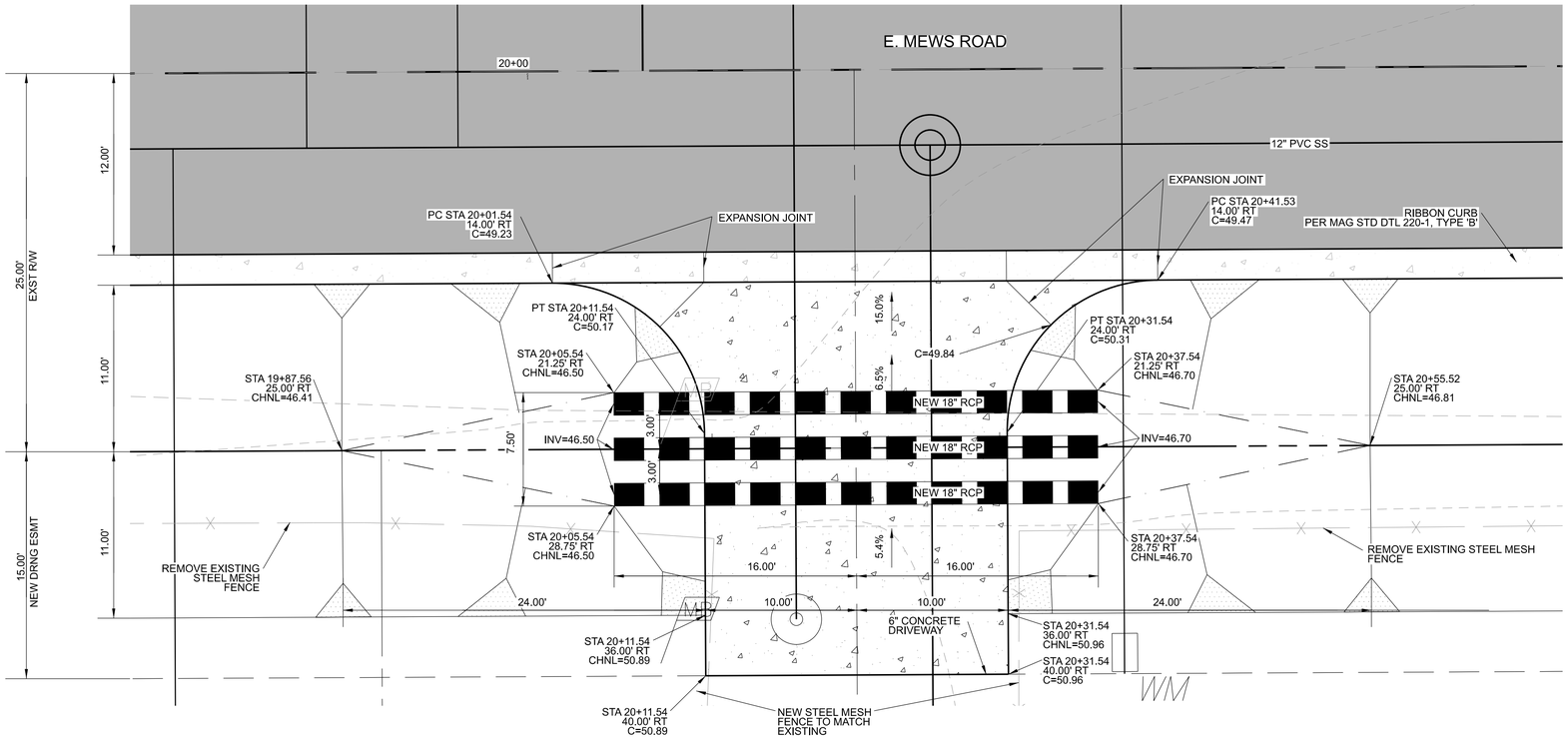
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	16	52	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

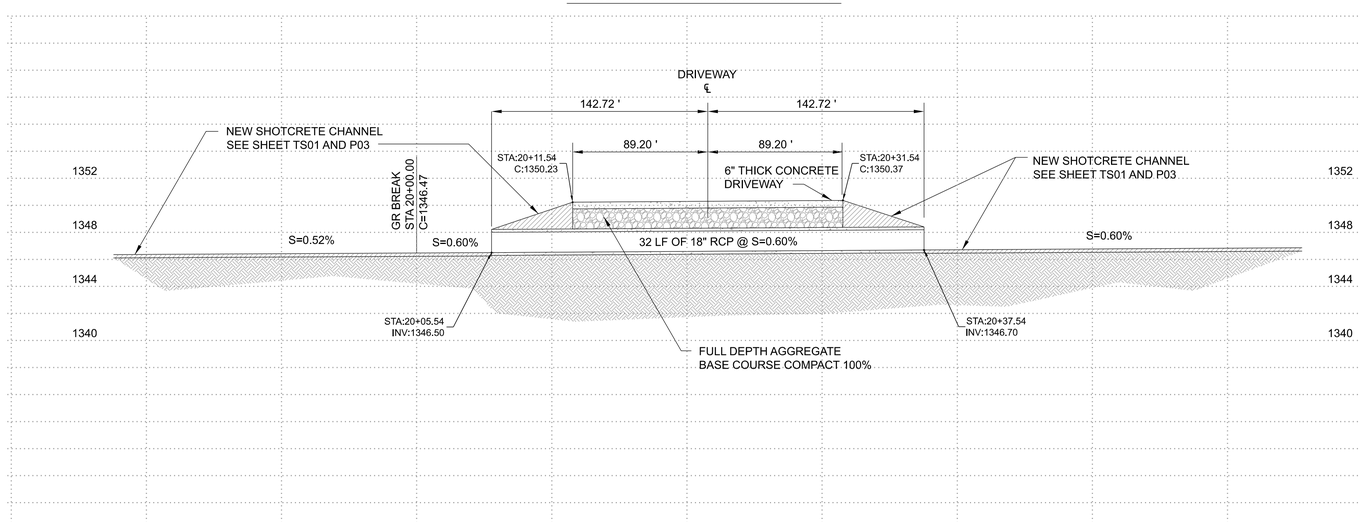
DWG DW01

TRACS NO. T0336 01C

___ OF ___



DRIVEWAY PLAN STA 20+21.54



SECTION A-A

SCALE 1" = 5'-0"

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/1/2024 ARIZONA U.S.A.

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

DRIVEWAY PLAN & SECTION

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

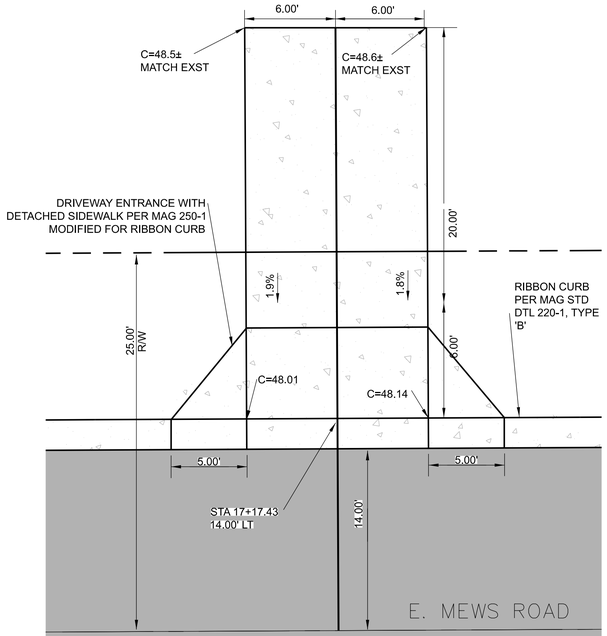
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	17	52	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG DW02

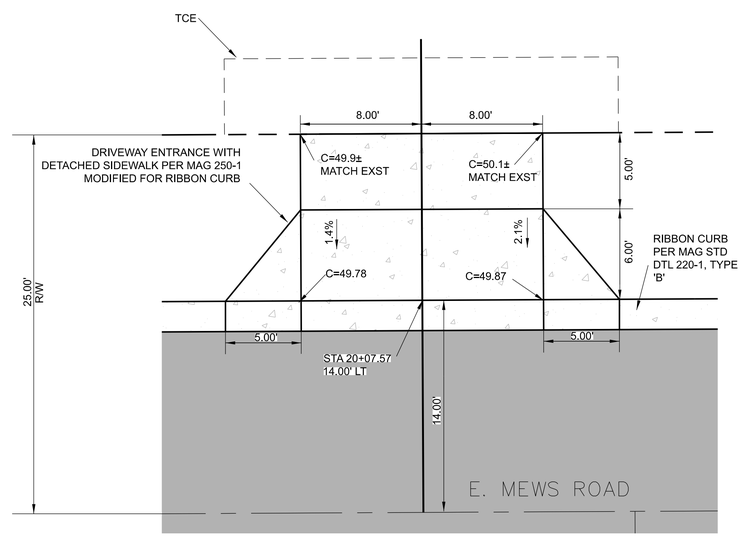
TRACS NO. T0336 01C

___ OF ___



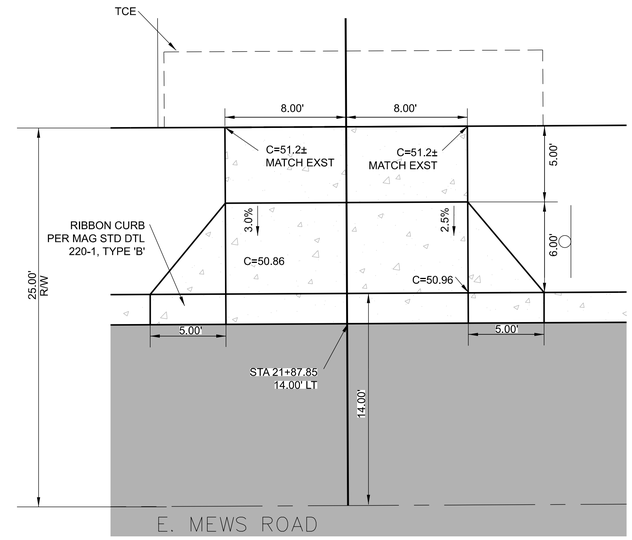
PLAN VIEW
DRIVEWAY LAYOUT NO. 1
STA 17+17.43

NOT TO SCALE



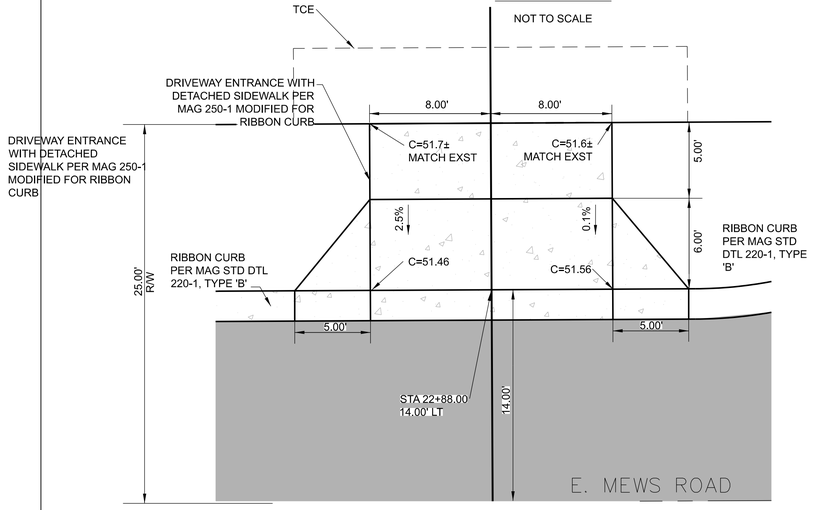
PLAN VIEW
DRIVEWAY LAYOUT NO. 1
STA 20+07.57

NOT TO SCALE



PLAN VIEW
DRIVEWAY LAYOUT NO. 1
STA 21+87.85

NOT TO SCALE

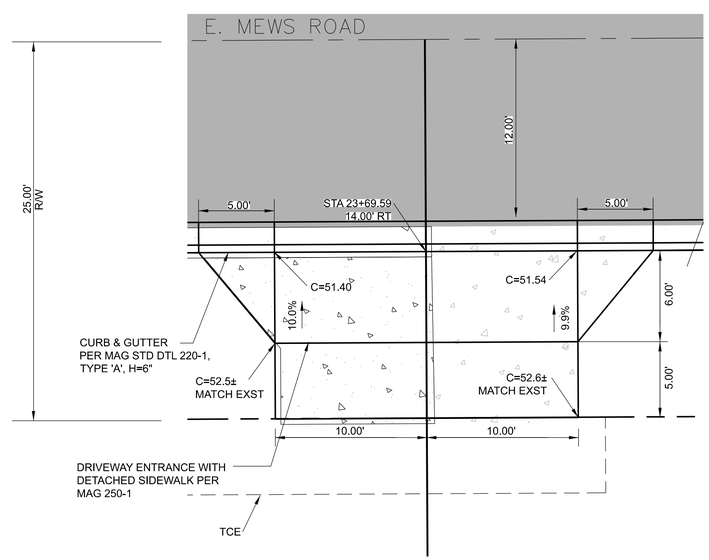


PLAN VIEW
DRIVEWAY LAYOUT NO. 1
STA 22+88.00

NOT TO SCALE

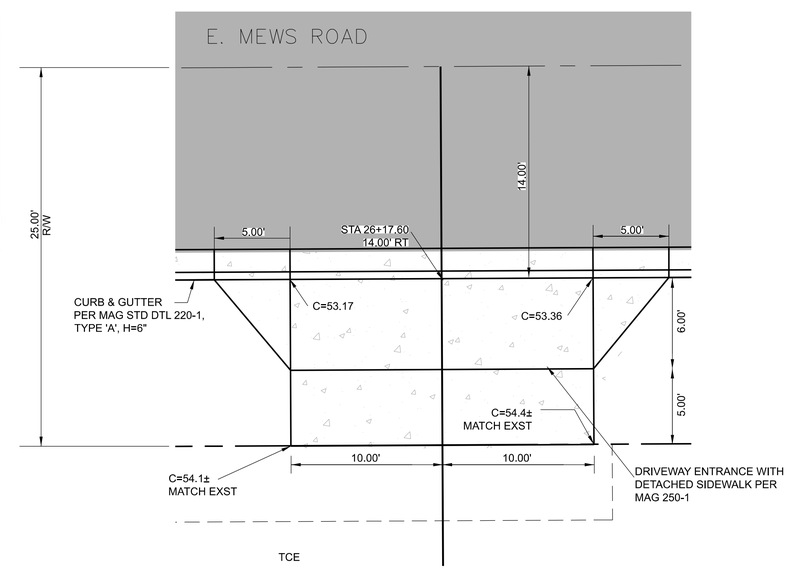
PLAN VIEW
DRIVEWAY LAYOUT NO. 1
STA 20+07.57

NOT TO SCALE



PLAN VIEW
DRIVEWAY LAYOUT NO. 2
STA 23+69.59

NOT TO SCALE



PLAN VIEW
DRIVEWAY LAYOUT NO. 2
STA 26+17.60

NOT TO SCALE

LEGEND

C=XX.XX — CONCRETE ELEVATION

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

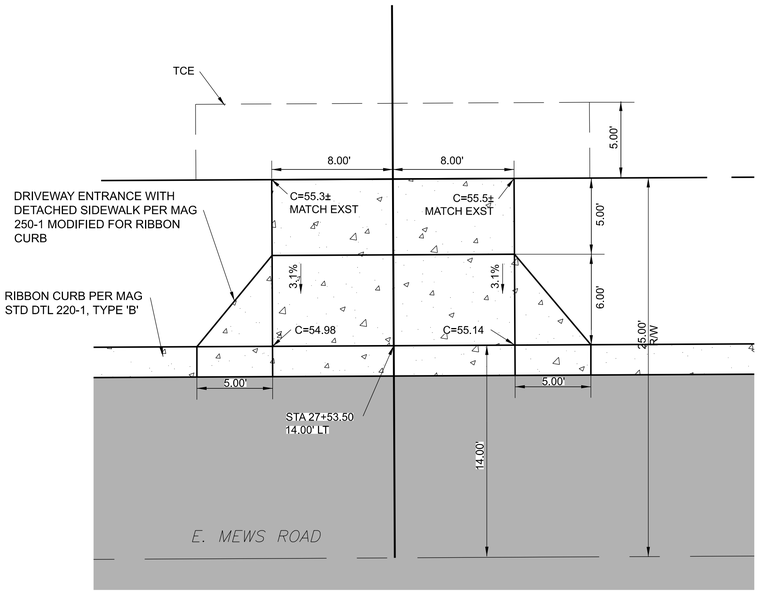
Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/1/2024 ARIZONA U.S.A.

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

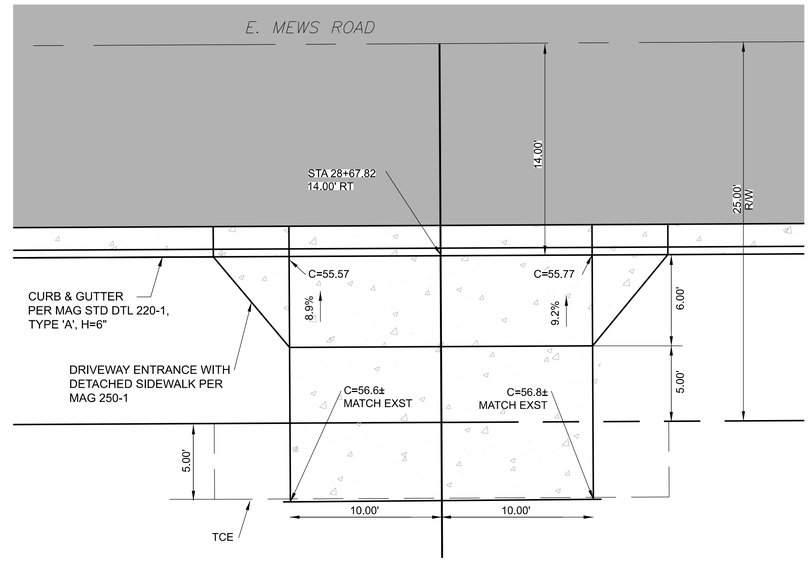
DRIVEWAY PLANS

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 MA GIL	GIL-0(218)T	18	52	
STRUCTURE NO.	LOCATION: MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG	DW03
	TRACS NO. T0336 01C					___ OF ___	



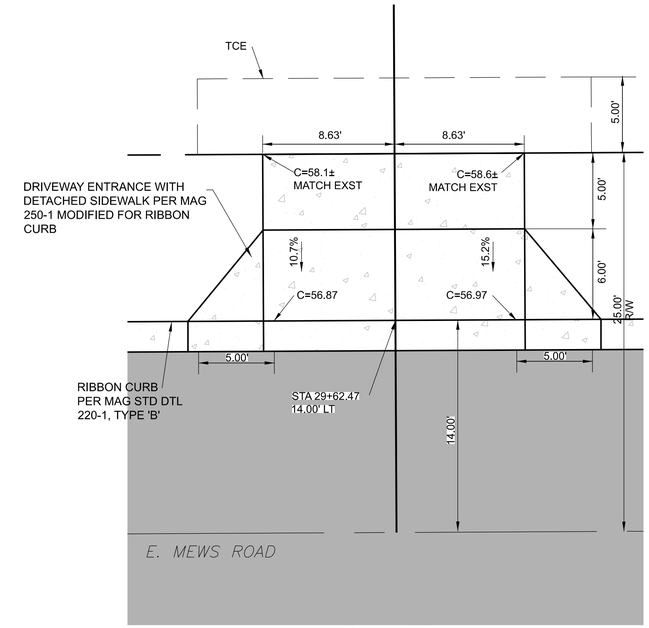
PLAN VIEW
DRIVEWAY LAYOUT NO. 1
STA 27+53.50

NOT TO SCALE



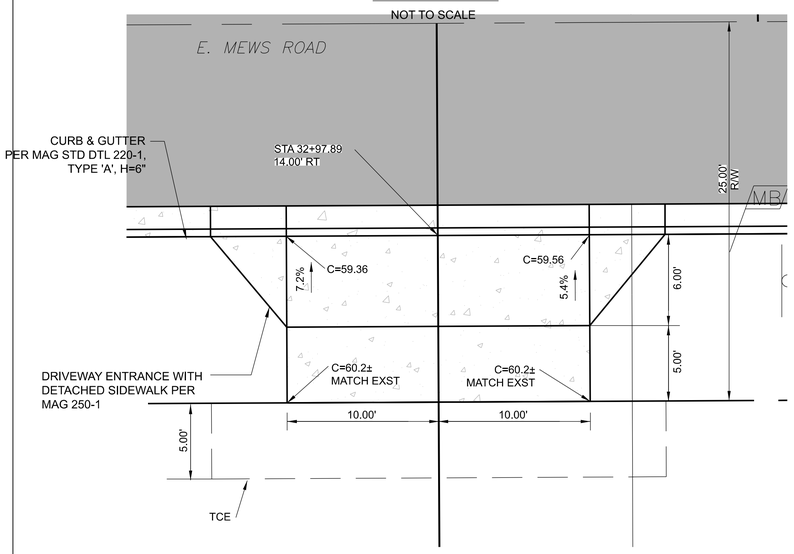
PLAN VIEW
DRIVEWAY LAYOUT NO. 2
STA 28+67.82

NOT TO SCALE



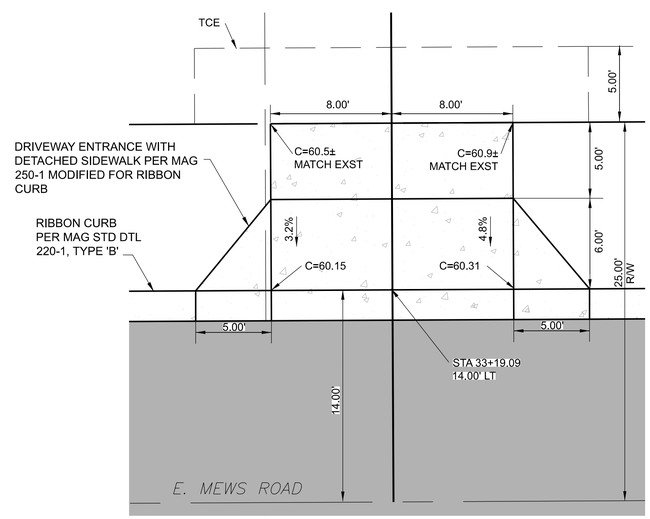
PLAN VIEW
DRIVEWAY LAYOUT NO. 1
STA 29+62.47

NOT TO SCALE



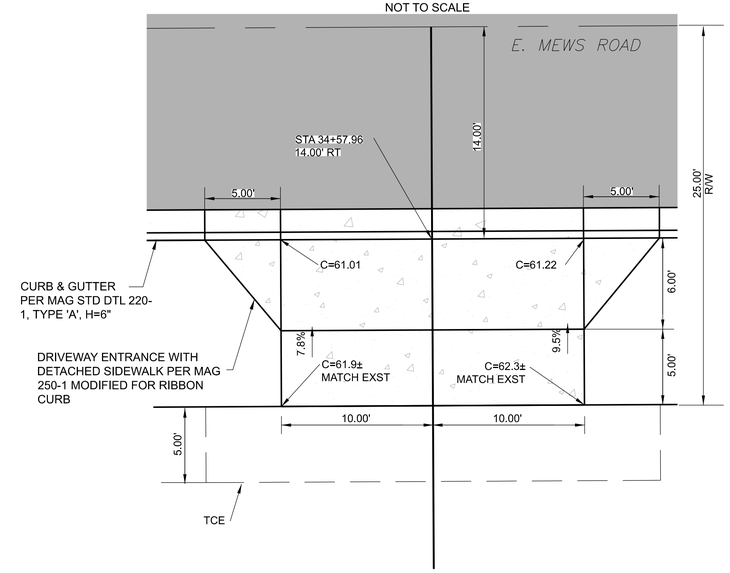
PLAN VIEW
DRIVEWAY LAYOUT NO. 2
STA 32+97.89

NOT TO SCALE



PLAN VIEW
DRIVEWAY LAYOUT NO. 1
STA 33+19.09

NOT TO SCALE



PLAN VIEW
DRIVEWAY LAYOUT NO. 2
STA 34+57.96

NOT TO SCALE

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/16/2024 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

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1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

DRIVEWAY PLANS

ROUTE
MILEPOST
STRUCTURE NO.

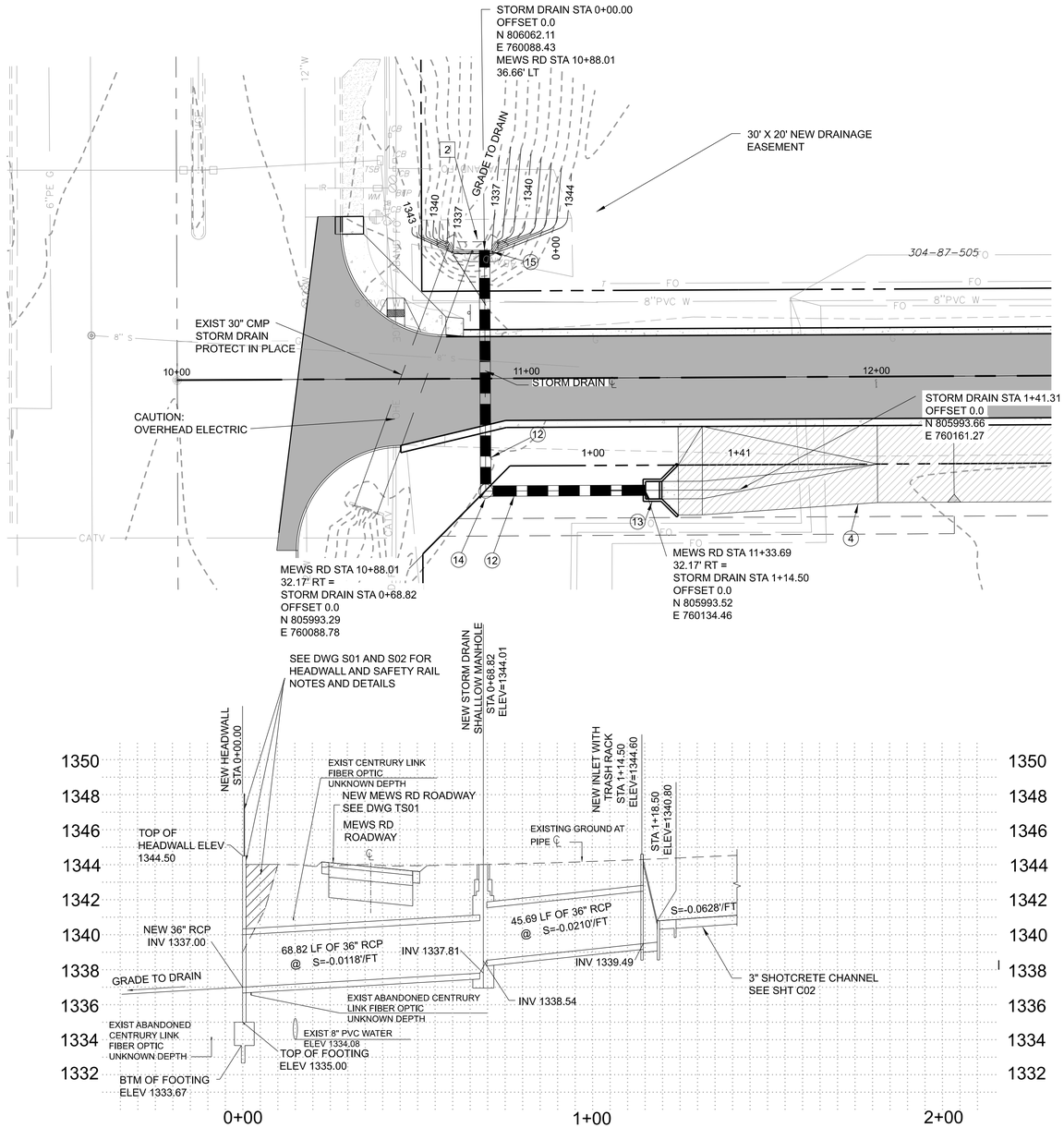
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 MA GIL	GIL-0(218)T	19	52	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG DW04

TRACS NO. T0336 01C

___ OF ___



REMOVAL & RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
2	REMOVE EXISTING METAL END SECTION AND SAWCUT PIPE TO BE FLUSH WITH NEW HEADWALL	EA	1

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
4	SHOTCRETE LINED DRAINAGE CHANNEL PER TYPICAL ROADWAY SECTION ON DWG DT01	SY	*
12	36" RCP STORM DRAIN	LF	*
13	INLET WITH TRASH RACK (MODIFIED) PER MAG STD DTL 502-1 & SHT C02	EA	*
14	STORM DRAIN SHALLOW MANHOLE PER MAG STD DTL 520 & 522	EA	*
15	HEADWALL PER SHEET S02. SAFETY RAIL 3'-6" HIGH PER MAG STD DTL 145, TYPE '1' ANCHOR. GRADE OUTLET AS SHOWN. PROTECT OUTLET WITH RIPRAP PER FLOOD CONTROL DISTRICT OF MARICOPA COUNTY HYDRAULICS MANUAL SECTION 6.5.	EA	*

* SEE SHEET PP01 FOR QUANTITIES.

NOTE:
CONTRACTOR TO VERIFY EXISTING UTILITY LOCATION AND DEPTHS.

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/1/2024 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

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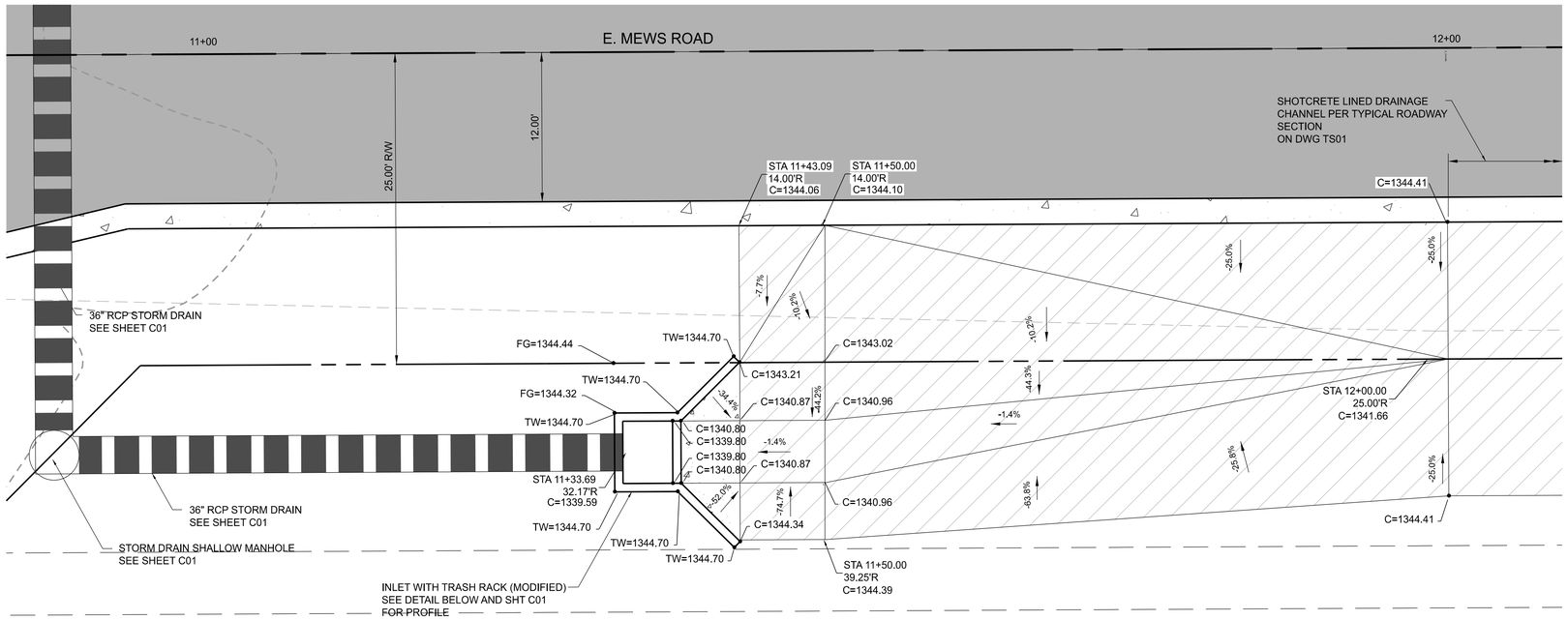
Tempe, AZ 85281

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

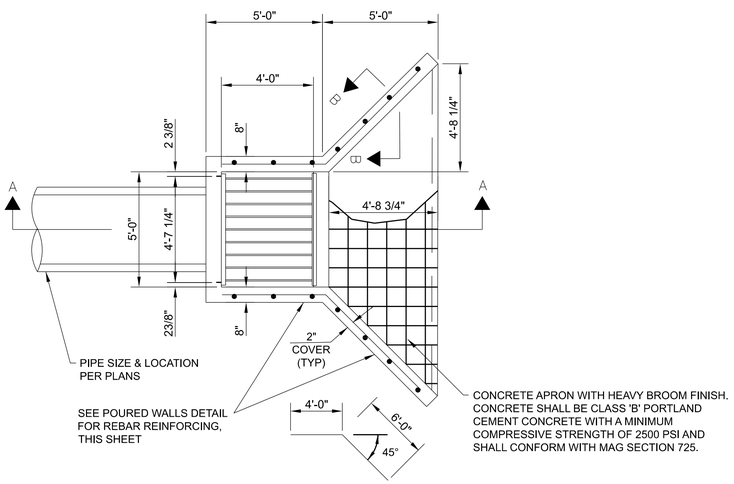
CULVERT PLAN AND PROFILE

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 MA GIL	GIL-0(218)T	20	52	
LOCATION	MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG	C01
STRUCTURE NO.	TRACS NO. T0336 01C					___ OF ___	



LEGEND

C=	CONCRETE CHANNEL ELEVATION
TW=	TOP OF WALL ELEVATION
FG=	FINISHED GRADE
	SLOPE DIRECTION
	SHOTCRETE DRAINAGE CHANNEL

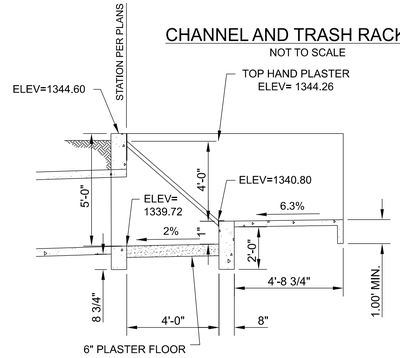


INLET WITH TRASH RACK
MAG DETAIL 502-1 (MODIFIED)

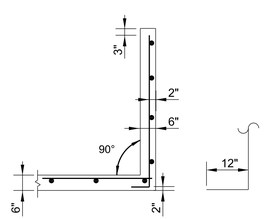
NOT TO SCALE

CHANNEL AND TRASH RACK PLAN

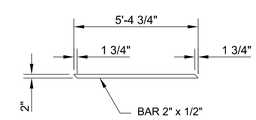
NOT TO SCALE



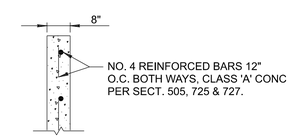
SECTION A-A



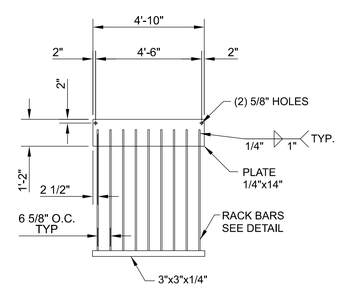
SECTION B-B



RACK BARS



POURED WALLS



TRASH RACK

NOTES

1. REMOVE ALL SCALE FROM RACK BARS. METAL SPRAY OR PAINT WITH ONE COAT ZINC CHROMATE OR RED LEAD PRIMER (INDUSTRIAL QUALITY). OVERCOAT WITH GREY INDUSTRIAL ENAMEL SECT. 790.
2. 14" PLATE SHALL NOT EXTEND BELOW TOP OF PIPE.
3. DIMENSIONS OF THE FINISHED INLET SHALL BE MEASURED IN THE FIELD PRIOR TO FABRICATION OF THE GRATE TO VERIFY THAT DIMENSIONS SHOWN ON THIS SHEET WILL FIT FIELD CONDITIONS.
4. ALL REINFORCING BARS SHALL BE NO. 4. BAR SPACING APPROXIMATELY 12" C TO C UNLESS OTHERWISE NOTED.

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/11/2023 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

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Tempe, AZ 85281

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

DRAINAGE CHANNEL DETAILS

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 MA GIL	GIL-0(218)T	21	52	
STRUCTURE NO.	LOCATION: MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG C02	
	TRACS NO. T0336 01C					___ OF ___	

GENERAL STRUCTURAL NOTES

U.O.N. = UNLESS OTHERWISE NOTED
G.S.N. = GENERAL STRUCTURAL NOTES
M.A.G. = MARICOPA ASSOCIATION OF GOVERNMENTS

DIVISION 1: GENERAL REQUIREMENTS

DESIGN DATA

CODES: INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION

MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE STANDARD 7-16

M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION, 2020 EDITION

DESIGN: SOIL WEIGHT = 125 PCF (AVERAGE)

BACKFILL ANGLE OF INTERNAL FRICTION = 32 DEGREES
(BASED ON SC-SM SOIL CLASSIFICATION)

ASSUMED IBC PRESUMPTIVE VALUES (TABLE 1806.2):

TOTAL LOAD S.P. = 2000 PSF AT 2'-0"
(BELOW LOWEST ADJACENT FINISHED GRADE)

ALLOWABLE PASSIVE SOIL PRESSURE = 150 PSF/FT
FOOTING/SOIL FRICTION FACTOR = 0.25
(50% USEABLE WHEN USED IN COMBINATION WITH PASSIVE)

SUBMITTALS

SUBMIT (5) FIVE COPIES OF SHOP FABRICATION AND FIELD ERECTION DETAILS AND MATERIAL SUBMITTALS. INCLUDE PLANS, ELEVATIONS, SECTOINS, AND DETAILS OF METAL FABRICATIONS AND THEIR CONNECTIONS. SHOW ANCHORAGE AND ACCESSORY ITEMS.

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMPONENT FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION TO THE ENGINEER.

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMPONENT FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION TO THE ENGINEER.

CONCRETE SUBMITTALS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW A MINIMUM OF ONE WEEK PRIOR TO THE FIRST FIELD DELIVERY.

PROVIDE SHOP DRAWINGS AND SUBMITTALS FOR THE FOLLOWING:

1. SAFETY RAILS
2. CONCRETE MIX DESIGN
3. CONCRETE CURING MATERIAL
4. REINFORCING

DIVISION 2: EARTHWORK

EARTHWORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF PART 200 OF THE M.A.G. UNIFORM STANDARD SPECIFICATIONS.

APPLICABLE PORTIONS OF GEOTECHNICAL STUDY:
SMITH & ANNALA ENGINEERING CO. (SAECO)
PROJECT NO. 44.19.2139
FEBRUARY 11, 2019

DIVISION 3: CONCRETE

CONCRETE MATERIALS AND PLACEMENTS SHALL COMPLY WITH THE APPLICABLE SECTIONS OF PART 200 OF THE M.A.G. UNIFORM STANDARD SPECIFICATIONS.

ALL CONCRETE SHALL BE M.A.G. CLASS 'A' (F'c = 3,000 PSI)

REINFORCING STEEL SHALL CONFORM TO ASTM SPECIFICATION A615, GRADE 60.

CHAMFER ALL EXPOSED CORNERS ¾" UNLESS OTHERWISE NOTED.

COMPACT BACKFILL TO MINIMUM 95 PERCENT PER ASTM D698.

DIVISION 5: METALS

SAFETY RAILS MATERIALS, FABRICATION AND PAINTING SHALL COMPLY WITH M.A.G. STANDARD DETAIL 145. COLOR TO BE SAFETY YELLOW.

CONSTRUCTION NOTES

1. ANY CHANGES TO THE STRUCTURE OR THESE DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR IN WRITING FOR ENGINEER REVIEW AND APPROVAL 7 DAYS PRIOR TO BEGINNING THE WORK.

2. EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM RECORD DRAWINGS AND/OR CURSORY FIELD OBSERVATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCY BEFORE PROCEEDING WITH THE WORK.

3. DIMENSIONS AND ELEVATIONS INDICATED ON DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS ON SITE THAT AFFECT HIS WORK BEFORE FABRICATION AND CONSTRUCTION ACTIVITIES.

4. THE CONTRACTOR SHALL VERIFY ALL EXISTING UNDERGROUND SERVICES THAT INTERFERE WITH HIS WORK. EXISTING UNDERGROUND SERVICES SHALL NOT BE DISTURBED OR REMOVED WITHOUT THE APPROVAL OF THE OWNER OR HIS REPRESENTATIVE, UNLESS NOTED ON THE DRAWINGS.

5. THE REMOVAL, CUTTING, DRILLING, ETC., OF EXISTING CONSTRUCTION SHALL BE PERFORMED WITH GREAT CARE IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE EXISTING CONSTRUCTION.

6. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, BUT DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE MEANS, METHODS AND TECHNIQUES OF CONSTRUCTION, AND THE ASSOCIATED SAFETY PRECAUTIONS, ARE THE RESPONSIBILITIES OF THE CONTRACTOR.

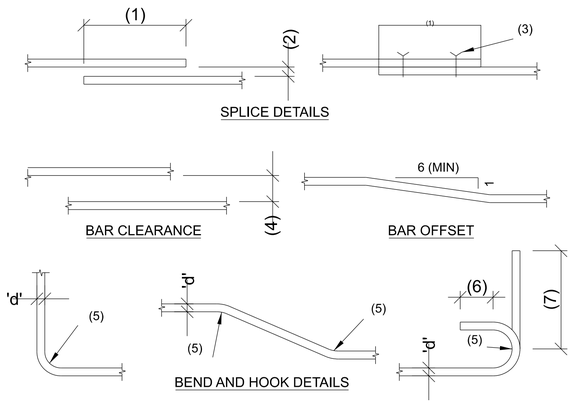
7. ALL WORK DONE ON SITE SHALL COMPLY WITH FMI SAFETY STANDARDS AND OSHA REGULATIONS, INCLUDING, BUT NOT LIMITED TO, PROPER FALL PROTECTION AND SOIL EXCAVATIONS.

8. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT STRUCTURES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS IMPOSED DURING CONSTRUCTION, INCLUDING CONSTRUCTION EQUIPMENT.

9. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

10. OPTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE CHANGES NECESSARY TO IMPLEMENT THE OPTION, AND SHALL COORDINATE ALL DETAILS.

TYPICAL REINFORCING BAR DETAILS



NOTES:

1. MINIMUM BAR LAP (U.O.N.)
   #4 BARS = 14"
   #5 BARS = 18"
   #6 BARS = 24"
2. MAXIMUM ⅕ LAP BUT NOT MORE THAN 6"
3. WIRE TIES
4. 1d (1" MINIMUM)
5. RADIUS = 3d
6. 4d (4" MINIMUM)
7. 12d (90° HOOK)

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 3/11/2024 ARIZONA U.S.A.

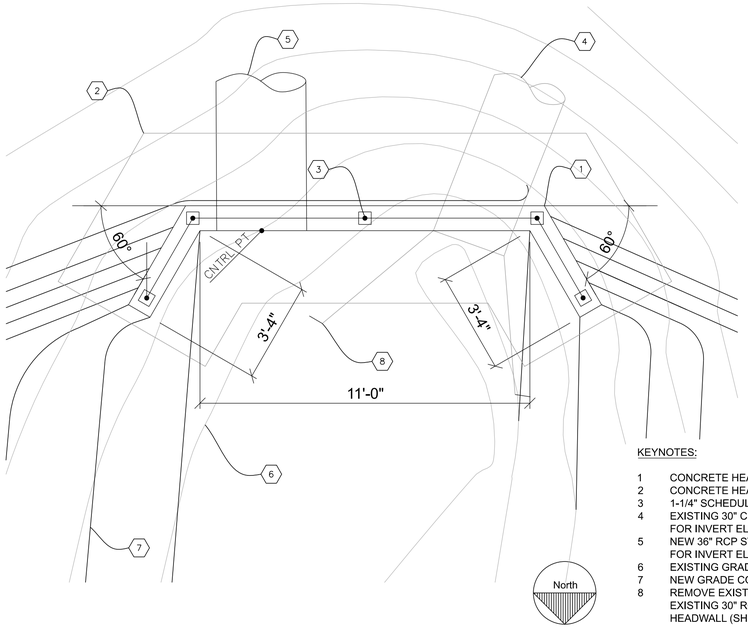
	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

GENERAL STRUCTURAL NOTES

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 MA GIL	GIL-0(218)T	22	52	
	LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG	S01
STRUCTURE NO.	TRACS NO. T0336 01C					___ OF ___	

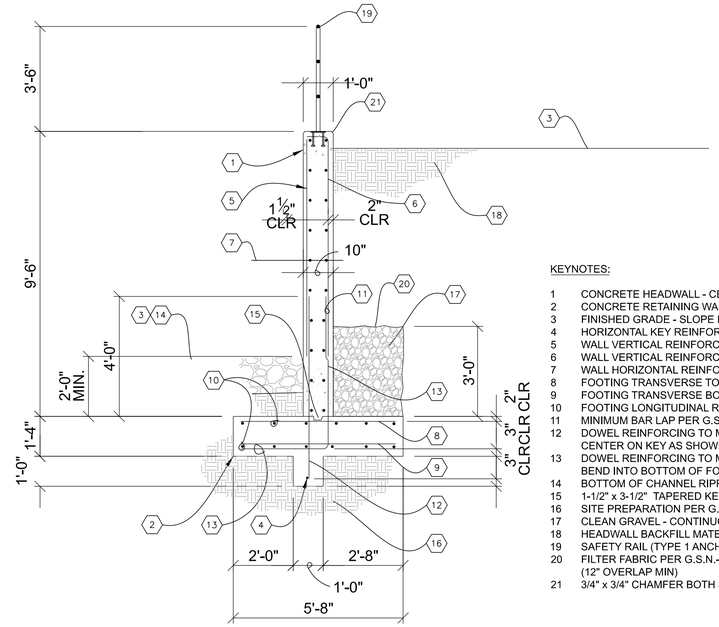


CNTRL PT
STORM DRAIN STA 0+00.00 OFFSET 0.0'
N 806062.11
E 760088.43
MEWS RD STA 10+88.01
OFFSET 36.66' L

KEYNOTES:

1 CONCRETE HEADWALL
2 CONCRETE HEADWALL FOOTING SHOWN DASHED
3 1-1/4" SCHEDULE 40 SAFETY RAIL - PAINT PER G.S.N.
4 EXISTING 30" CMP STORMDRAIN - SEE PLAN AND PROFILE FOR INVERT ELEVATION
5 NEW 36" RCP STORMDRAIN - SEE PLAN AND PROFILE FOR INVERT ELEVATION
6 EXISTING GRADE CONTOURS
7 NEW GRADE CONTOURS - SEE PLAN AND PROFILE
8 REMOVE EXISTING END SECTION AND CUT BACK EXISTING 30" RCP PIPE FLUSH WITH FACE OF NEW HEADWALL (SHOWN DASHED)

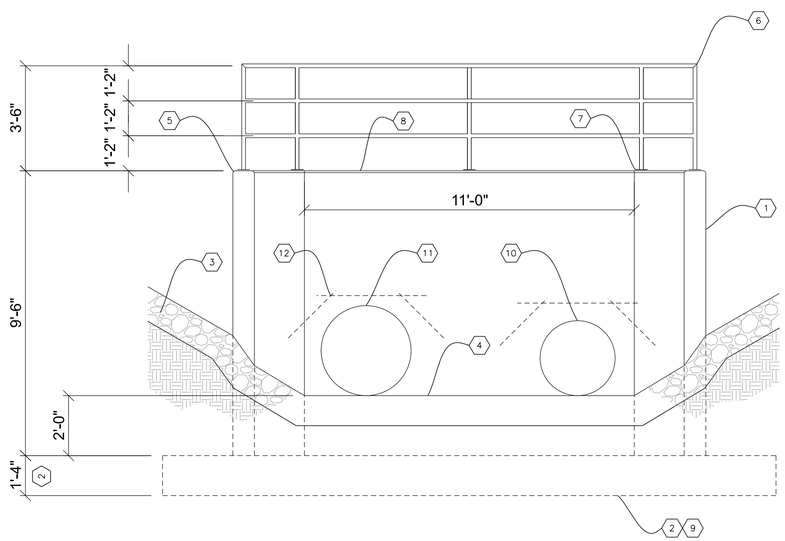
A HEADWALL PLAN VIEW
NO SCALE



KEYNOTES:

1 CONCRETE HEADWALL - CENTER ON FOOTING
2 CONCRETE RETAINING WALL FOOTING
3 FINISHED GRADE - SLOPE PER PLAN AND PROFILE
4 HORIZONTAL KEY REINFORCING - #5 CONTINUOUS
5 WALL VERTICAL REINFORCING - #6 @ 12" O.C.
6 WALL VERTICAL REINFORCING - #6 @ 12" O.C.
7 WALL HORIZONTAL REINFORCING - #5 @ 12" O.C. EACH FACE
8 FOOTING TRANSVERSE TOP REINFORCING - #5 @ 18" O.C.
9 FOOTING TRANSVERSE BOTTOM REINFORCING - #5 @ 18" O.C.
10 FOOTING LONGITUDINAL REINFORCING - #5 @ 18" O.C.
11 MINIMUM BAR LAP PER G.S.N.
12 DOWEL REINFORCING TO MATCH WALL REINFORCING - CENTER ON KEY AS SHOWN
13 DOWEL REINFORCING TO MATCH WALL REINFORCING - BEND INTO BOTTOM OF FOOTING AS SHOWN
14 BOTTOM OF CHANNEL RIPRAP
15 1-1/2" x 3-1/2" TAPERED KEYED CONSTRUCTION JOINT AS SHOWN
16 SITE PREPARATION PER G.S.N.
17 CLEAN GRAVEL - CONTINUOUS ALONG BOTTOM OF FOOTING
18 HEADWALL BACKFILL MATERIAL AND COMPACTION PER G.S.N.
19 SAFETY RAIL (TYPE 1 ANCHOR) PER MAG STD DETAIL 145
20 FILTER FABRIC PER G.S.N.-COMPLETELY WRAP AROUND GRAVEL (12" OVERLAP MIN)
21 3/4" x 3/4" CHAMFER BOTH SIDES

1 HEADWALL SECTION
NO SCALE



KEYNOTES:

1 CONCRETE HEADWALL
2 CONCRETE HEADWALL FOOTING SHOWN DASHED
3 BOTTOM OF CHANNEL RIPRAP
4 FINISHED GRADE OF CHANNEL BOTTOM
5 3/4" x 3/4" CHAMFER
6 SAFETY RAIL (TYPE 1 ANCHOR) PER MAG STD DETAIL 145
7 STEEL EMBED PLATE - 1/4" x 5" x 5" WITH (2) 1/2" DIA x 6" LG STUD ANCHORS @ 3" GA
8 TOP OF HEADWALL - SEE PLAN AND PROFILE FOR ELEVATION
9 SITE PREPARATION PER G.S.N.
10 EXISTING 30" CMP STORMDRAIN TO REMAIN. SUPPORT AS REQUIRED AND PROTECT IN PLACE - SEE PLAN AND PROFILE FOR INVERT ELEVATION
11 NEW 36" RCP STORMDRAIN - SEE PLAN AND PROFILE FOR INVERT ELEVATION
12 ADDITIONAL #5 REINFORCING BARS EACH FACE

A HEADWALL ELEVATION
NO SCALE

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/11/2025 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

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

STRUCTURAL DETAILS

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
		ARIZ.	0000 MA GIL	GIL-0(218)T	23	52	
MILEPOST	LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG	S02
STRUCTURE NO.	TRACS NO. T0336 01C					___ OF ___	

TRAFFIC CONTROL NOTES

1. *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 additional cost to the Department.*

2. *The retroreflective sheeting on all construction signs shall meet criteria established in Section 1007 of ADOT Standard Specifications and in Section 380 of the ADOT Traffic Engineering Policies, Guidelines and Procedures.*

3. *All signs shown on the plans shall be be installed on spring stands, at the height recommended by the spring stand manufacturer.*

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

5. *Type A flashing warning lights shall be required on all nighttime construction signs*

6. *Type C steady-burning yellow lights shall be mounted on every barricade for channelizing devices at night.*

7. *Channelizing devices shall be placed 20 feet on center in tapers and 40 feet on center in tangents, except as otherwise noted on plans.*

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

9. *All construction signs shall have black letters on an orange background, except as otherwise noted on the plans.*

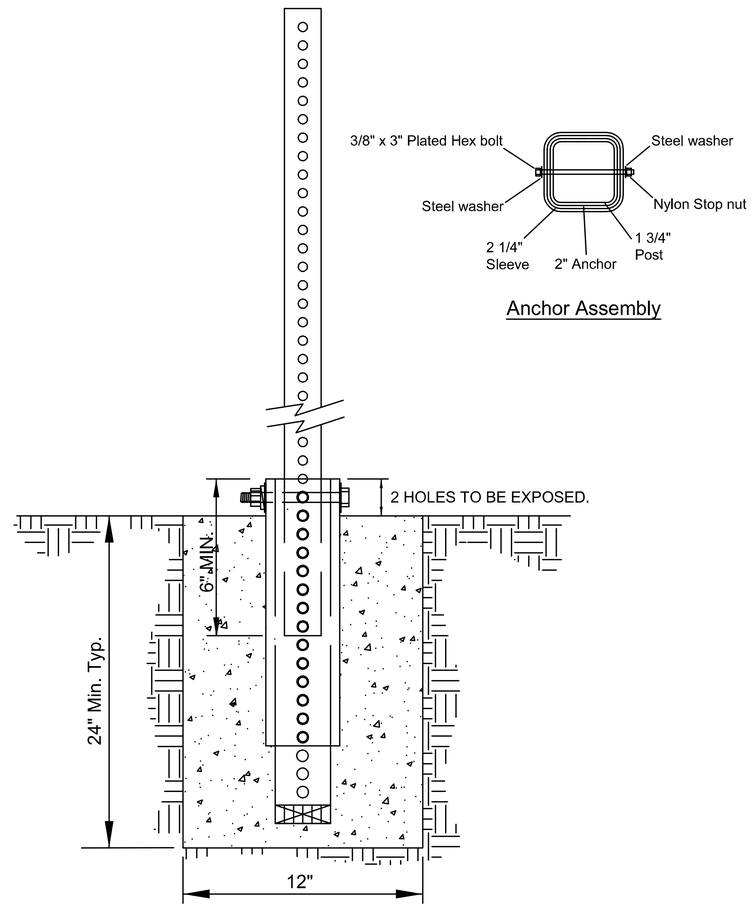
10. *Where no closure is necessary but where there is construction alongside a roadway under construction, the Contractor shall place a 36 x 36 inch "ROAD WORK AHEAD" and sign as directed by the Engineer to alert the public to the construction activities.*

11. *When traffic control devices are not in use, they shall be moved at least 30 feet from the roadway.*

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

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

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



NOTES:

1. INSTALL ALL TRAFFIC SIGNS 36" x 36" (1296 SQ. IN.) OR LESS ON 12 GAUGE 1 3/4" SQUARE STEEL TUBING.

2. INSTALL ALL TRAFFIC SIGNS GREATER THAN 36" x 36" (1296 SQ. IN.) ON 12 GUAGE 2" SQUARE STEEL TUBING.

3. CONCRETE BASE 2' DEEP MIN. X 12" WIDE 18" LONG ANCHOR & 12" SLEEVE COMPLETELY TAPED TO PREVENT SEAPAGE OF CONCRETE.

4. POST ANCHOR SHALL HAVE 2 HOLES EXPOSED AT FINISHED GRADE.

5. ALL TRAFFIC SIGNS, WITH THE EXCEPTION OF R6-1 & DELINEATORS, SHALL BE SET AT A HEIGHT OF 7' TO BOTTOM OF SIGN. POSTS WITH DUAL SIGN ASSEMBLIES MAY BE SET AT 6' TO BOTTOM OF SIGN IF THE SECONDARY SIGN DOES NOT PROJECT MORE THAN 4" INTO THE SIDEWALK. DELINEATORS SHALL BE MOUNTED AT A MINIMUM OF 4' TO THE BOTTOM OF THE SIGN. ALTERNATIVE HEIGHTS MUST BE APPROVED BY THE TOWN TRAFFIC ENGINEER PRIOR TO INSTALLATION.

6. BOLT FOR BASE TO BE PERPENDICULAR TO THE FLOW OF TRAFFIC.

GILBERT ARIZONA	STANDARD DETAIL	SIGN POST AND BASE	APPROVED ____ TOWN ENGINEER ____ DATE	DETAIL NO. GIL-227

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/16/2024 ARIZONA U.S.A.

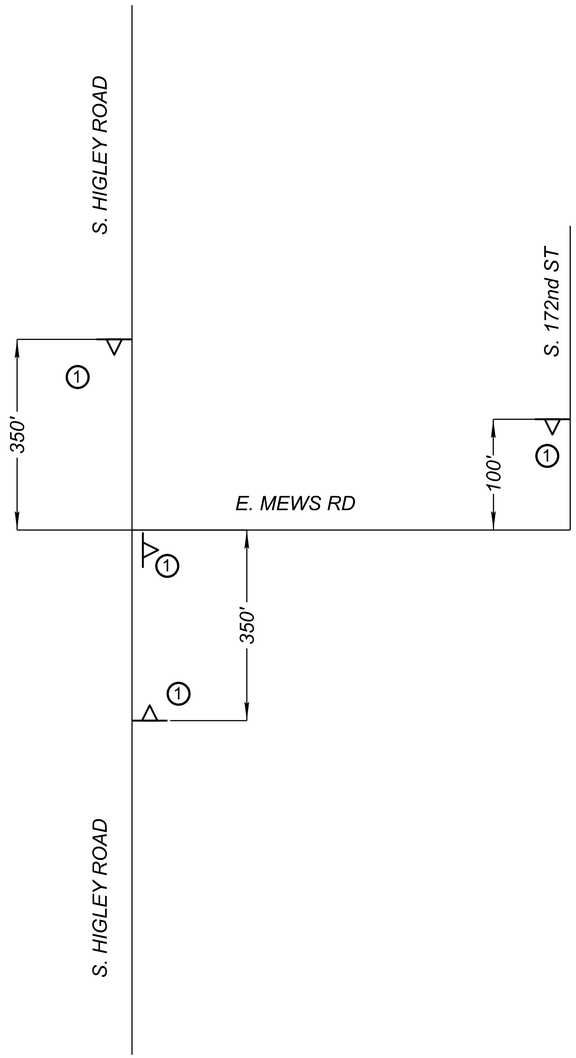
	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc. 1230 West Washington Street, Suite 405 Tempe, AZ 85281

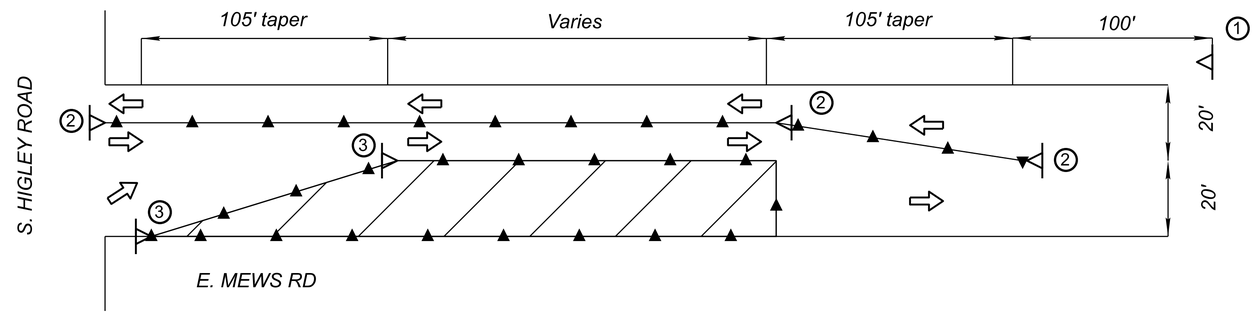
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SERVICES

MEWS ROAD TRAFFIC CONTROL GENERAL NOTES

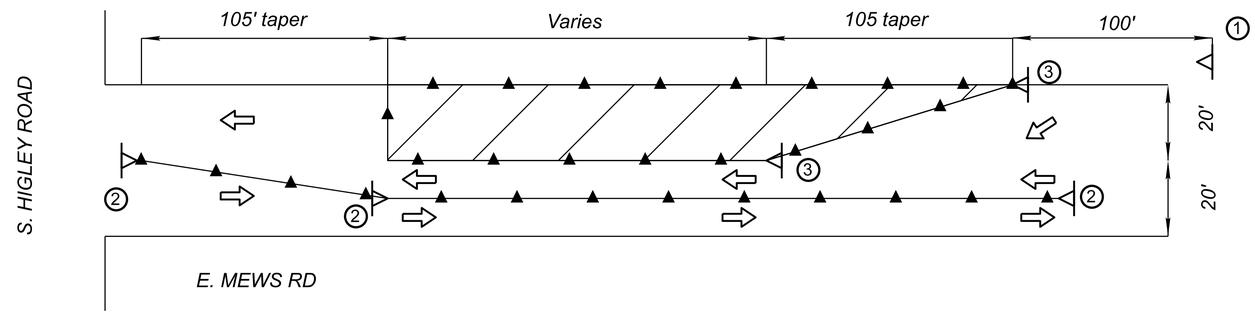
ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 MA GIL	GIL-0(218)T	24	52	
STRUCTURE NO.	LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG	TC01
	TRACS NO. T0336 01C					___ OF ___	



DETAIL A: ADVANCE WARNING



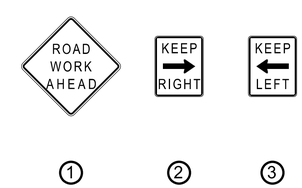
DETAIL B: EB LANE SHIFT



DETAIL C: WB LANE SHIFT

SYMBOL LEGEND:

	Sign on Spring Stand
	Vertical Panel (Plan/Elevation)
	Direction of Travel
	Work Area



NOTES

1. Contractor shall maintain 10' lanes at all times
2. Panels shall be spaced at 25' on center

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/11/2023 ARIZONA U.S.A.

WSP USA Inc., 1230 West Washington Street, Suite 405 Tempe, AZ 85281

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

MEWS ROAD TRAFFIC CONTROL DETAILS

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	25	52	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG TC02

TRACS NO. T0336 01C

___ OF ___

Plan Sht No.	Sign Number	Sign Code	Work: New	Work: Existing: Replace Panel	Work: Existing: Relocate Panel	Work: Existing: Modify Legend	Work: Existing: Remove	Work: Existing: To Remain	Offset (ft)	Mounting Height (ft)	Background Color	Panel: Legend	Panel: Width (in)	Panel: Height (in)	Panel: Area (sq. ft.)	Panel: Type	Ground Mounted: Foundations	Ground Mounted: Posts: Type	Ground Mounted: Posts: Total length (ft)	Ground Mounted: New Slipbases	Ground Mounted: Stringer: Type	Ground Mounted: Stringer: Total Length (ft)	Remarks
SP02	WB10+78	R1-1			X							STOP											
	*	GIL-220										E Mews Rd	30	12	2.5	XI	1	1 3/4S	13				Mounted on existing stop sign post
	*	GIL-220										S Higley Rd	30	8	1.7	XI							Mounted on existing stop sign post
SP02	WB12+76	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP02	EB12+76	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP02	EB12+76	R2-1	X							7	WH	SPEED LIMIT 25	24	30	5	XI	1	1 3/4S	13				
SP02	WB15+77	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP02	EB15+78	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP02	WB17+89	GIL-220	X									E Mews Rd	30	12	2.5	XI	1	1 3/4S	13				
	*	GIL-220	X									S 169Th Pl	30	8	1.7	XI	1	1 3/4S	13				
SP02	WB18+76	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP02	EB18+77	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP03	WB21+66	GIL-220	X									E Mews Rd	30	12	2.5	XI	1	1 3/4S	13				
	*	GIL-220	X									S 169Th Way	30	8	1.7	XI	1	1 3/4S	13				
SP03	EB21+77	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP03	EB22+03	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP03	WB23+08	GIL-220	X									E Mews Rd	30	12	2.5	XI	1	1 3/4S	13				
	*	GIL-220	X									S Sunnyvale Rd	36	8	2	XI	1	1 3/4S	13				
SP03	WB25+03	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP03	EB25+04	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP04	WB29+03	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP04	EB29+03	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP04	EB31+00	W8-3	X							7	YL	PAVEMENT ENDS	36	36	6	XI	1	2S	13				
	*	W16-2P	X								YL	500 FEET	24	18	3	XI							Install below W8-3 sign
SP04	WB31+71	OWNER SIGN						X				PRIVATE PROPERTY OWNER SIGN OF ADDRESS NUMBERS											
SP04	WB32+03	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP04	EB32+04	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP03	WB33+21	GIL-220	X									E Mews Rd	30	12	2.5	XI	1	1 3/4S	13				
	*	GIL-220	X									S Legend Dr	30	8	1.7	XI	1	1 3/4S	13				
SP04	WB34+00	R2-1	X							7	WH	SPEED LIMIT 25	24	30	5	XI	1	1 3/4S	13				
SP04	WB35+03	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP04	EB35+04	R8-3	X							7	WH	NO PARKING	24	24	4	XI	1	1 3/4S	13				
SP04	WB35+83	GIL-220	X									E Mews Rd	30	12	2.5	XI	1	1 3/4S	13				
	*	GIL-220	X									S 172nd St	30	8	1.7	XI	1	1 3/4S	13				
SP04	EB36+35	OM1-2	X							4	BK	TYPE 1 OBJECT MARKER	18	18	2.3	XI	1	1 3/4S	13				
SP04	EB36+35	OM1-2	X							4	BK	TYPE 1 OBJECT MARKER	18	18	2.3	XI	1	1 3/4S	13				
SP04	EB36+35	OM1-2	X							4	BK	TYPE 1 OBJECT MARKER	18	18	2.3	XI	1	1 3/4S	13				
SP04	EB36+40	OM-3R						X				TYPE 3 OBJECT MARKER											

TOWN OF GILBERT SIGNING GENERAL NOTES

1. THE CONTRACTOR INSTALLING SIGNING WITH THE TOWN'S RIGHT-OF-WAY WILL BE REQUIRED TO OBTAIN A SIGNING INSTALLATION PERMIT 15 DAYS PRIOR TO ANY INSTALLATION.
2. THE SIGNING CONTRACTOR SHALL MAKE CONTACT WITH THE TRAFFIC ENGINEERING SECTION AT 480-503-6186 TO ARRANGE FOR A PRE-INSTALLATION MEETING. NO SIGNING IS TO BE INSTALLED PRIOR TO MEETING WITH A REPRESENTATIVE FROM THE TRAFFIC ENGINEERING SECTION.
3. ALL SIGNING SHALL CONFORM TO THE REQUIREMENTS CONTAINED IN THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND HANDBOOK, AND THE LATEST EDITION OF THE ARIZONA SUPPLEMENT PUBLISHED BY THE ARIZONA DEPARTMENT OF TRANSPORTATION.
4. ALL SIGNS SHALL BE INSTALLED USING 1-3/4 INCH OR 2 INCH SQUARE TUBING AS PER TOWN OF GILBERT STANDARD DETAIL GIL-227.
5. SIGNS SHALL BE SECURED TO POST USING 3/8 INCH X 2-1/2 INCH PLATED HEX HEAD BOLTS WITH FLAT WASHERS (2 EACH) AND NYLON STOP NUTS. A NYLON WASHER SHALL BE PLACED NEXT TO SIGN FACE.
6. SIGNS THAT ARE REQUIRED TO BE REMOVED OR RELOCATED DURING CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY SIGNING THAT IS TO BE RELOCATED OR REMOVED DUE TO CONSTRUCTION SHALL BE REINSTALLED IN ITS FINAL LOCATION PER TOWN OF GILBERT STANDARD DETAIL GIL-227.
7. THE CONTRACTOR SHALL ALLOW THE CONCRETE IN THE POSTHOLES TO CURE FOR AT LEAST 24- HOURS PRIOR TO STANDING THE POLES AND HANGING ANY SIGNING.
8. THE CONTRACTOR SHALL ENSURE THAT AT NO TIME A TRAFFIC SIGN IS INSTALLED IN SUCH A WAY AS TO BE BLOCKED BY TREES OR ANY TYPE OF VEGETATION. IN THESE CASES, THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING SECTION AT 480-503-6186 TO PROVIDE AN ALTERNATIVE LOCATION FOR THE INSTALLATION OF SIGNING IN QUESTION.
9. ANY SIGNING THAT IS TO BE AFFIXED TO A STREET LIGHT POLE SHALL BE DONE SO USING ¾ INCH STAINLESS STEEL BANDING WITH APPROPRIATE FASTENERS.
10. ANY SIGNING INSTALLED WITHIN THE TOWN'S RIGHT-OF-WAY SHALL BE INSTALLED BY AN INDIVIDUAL THAT HAS CURRENT CERTIFICATION IN SIGNING INSTALLATION OR INSPECTION FROM AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) OR THE INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IMSA). EQUIVALENTS WILL BE CONSIDERED BUT MUST BE SUBMITTED IN WRITING TO THE TRAFFIC ENGINEER 30 DAYS PRIOR TO INSTALLATION OF ANY SIGNING.
11. SIGNING QUANTITIES AND INSTALLATION LOCATIONS ARE SUBJECT TO CHANGE AT THE TIME OF INSTALLATION BASED UPON CURRENT ACCEPTED PRACTICE. THE CONTRACTOR COMPLETING THE SIGNING INSTALLATION SHALL MAKE CONTACT WITH THE TRAFFIC ENGINEERING SECTION PRIOR TO ANY SIGNING BEING INSTALLED WITHIN THE TOWN'S RIGHT-OF-WAY.
12. ALL SIGNING WILL INCORPORATE ASTM TYPE XI SHEETING.
    - ALL WARNING SIGNS (YELLOW SERIES) SHALL BE ASTM TYPE XI (FLUORESCENT YELLOW SHEETING).
    - ALL SCHOOL AREA SIGNING SHALL BE ASTM TYPE XI SHEETING (FLUORESCENT YELLOW- GREEN)
13. ALL SIGNING SPECIFIED TO BE ASTM TYPE XI SHALL BE 3M 4000 (DIAMOND GRADE) SHEETING OR EQUIVALENT, TO INCLUDE THE SAME WARRANTY PERIOD.
14. SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURERS MATCHED COMPONENT SYSTEM. SIGN IMAGING SHALL CONSIST OF AN ACRYLIC BASED ELECTRONIC CUTTABLE FILM (3M 1170 SERIES OR EQUIVALENT) OR SILK SCREENED (DEPENDING ON THE QUANTITY OF SIGNAGE) WITH STANDARD HIGHWAY COLORS.
15. ANY REQUEST TO USE SHEETING OTHER THAN THAT SPECIFIED ABOVE SHALL BE MADE IN WRITING TO THE TRAFFIC ENGINEER 30 DAYS IN ADVANCE OF INSTALLATION.

NOTES:

1. The Contractor shall verify post lengths, elevations, cantilever column and mast arm lengths, and elevations for the Engineer's approval.
2. The Engineer may shift a sign in order to achieve a more desirable location.
3. Quantities are approximate and for the Contractor's information only.

NOTE:
Markers and Ground Mount Guide Signs are Sheeting Type IX or XI. Regulatory, Warning and Over-head Guide Signs are Sheeting Type XI.

PANEL TYPES;

RWM: Regulatory, Warning or Marker
F-DA: Flat-sheet aluminum with demountable characters
Ext: Aluminum extrusions

BACKGROUND COLORS:
RD = RED
BK = BLACK
BL = BLUE
GR = GREEN
YL = FLUORESCENT YELLOW
BR = BROWN
WH = WHITE
OR = ORANGE

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 5/16/2024 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

SIGNING GENERAL NOTES AND SIGN SUMMARY

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

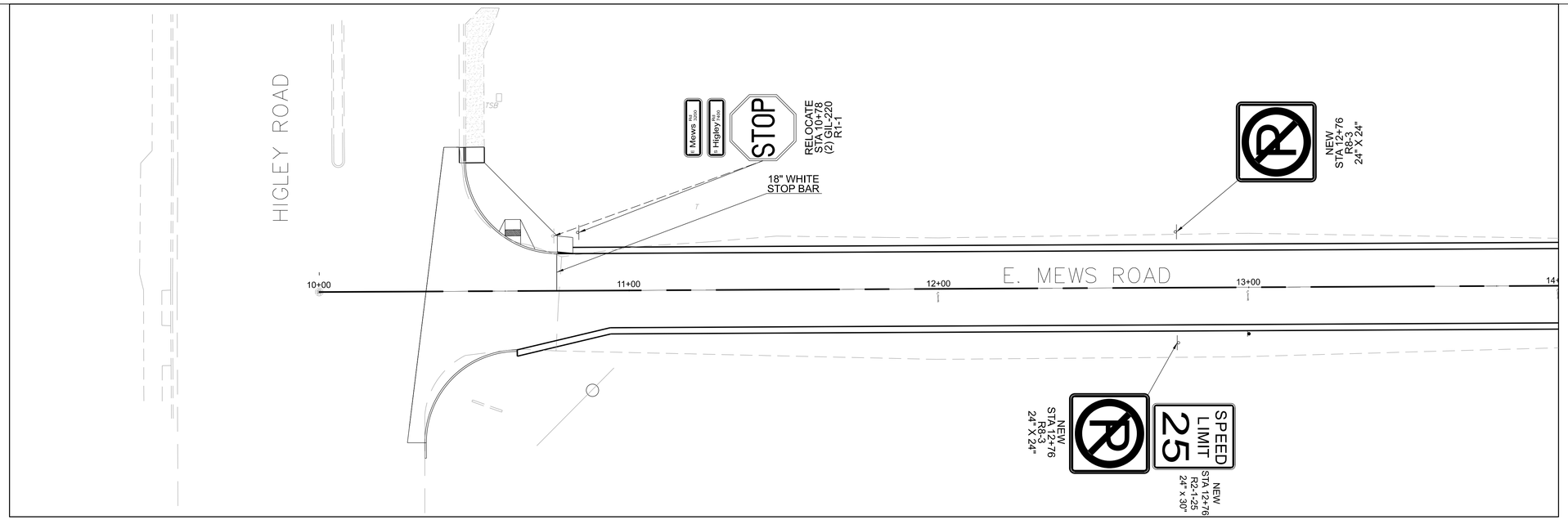
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	26	52	

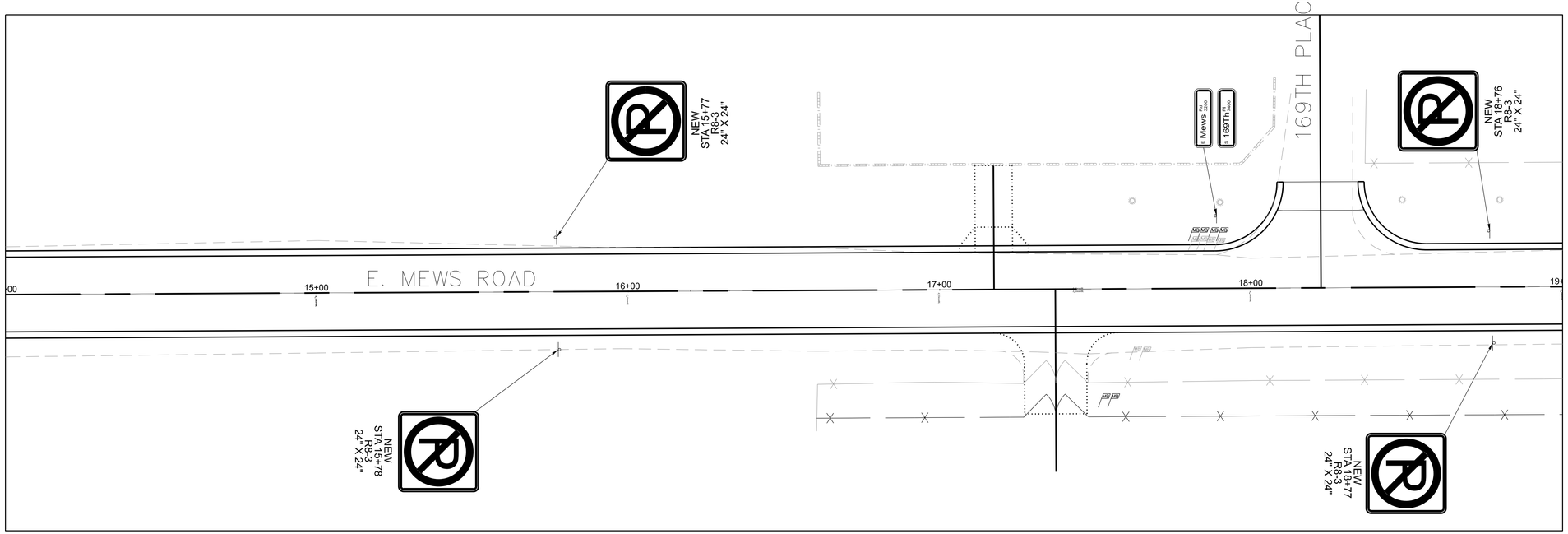
LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG SP01

TRACS NO. T0336 01C

___ OF ___





	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/1/2024 ARIZONA, U.S.A.

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

MEWS ROAD SIGNING PLAN
STATION 10+00 TO STATION 19+00

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

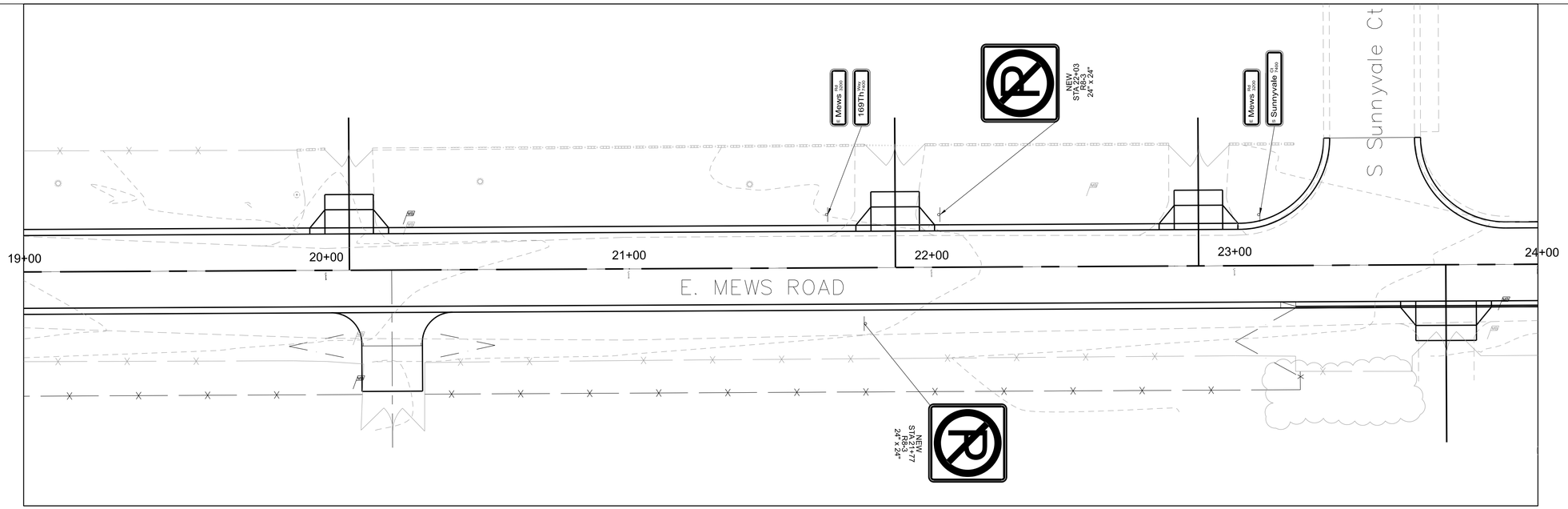
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	27	52	

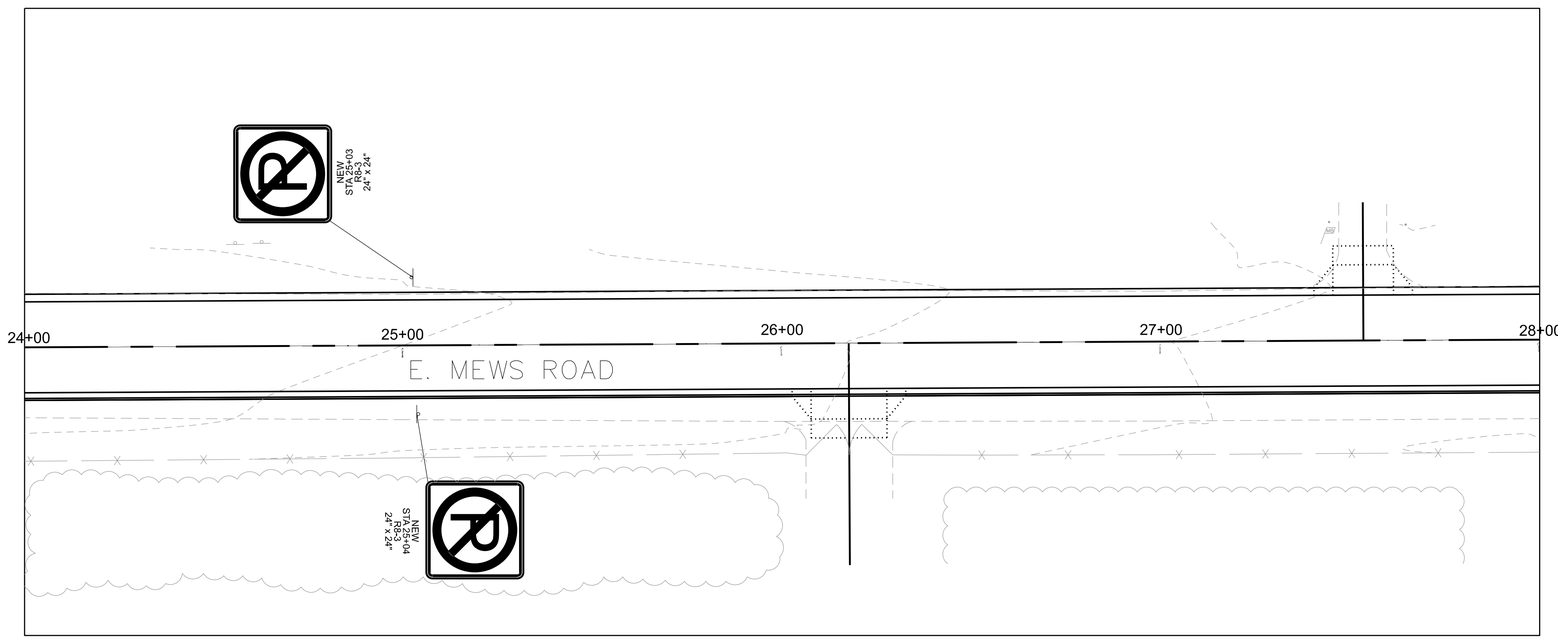
LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG SP02

TRACS NO. T0336 01C

___ OF ___





Registered Professional Engineer (Civil)
CERTIFICATE NO. 70847
MICHAEL J SCHOEN
Date Signed 8/11/2023
ARIZONA U.S.A.

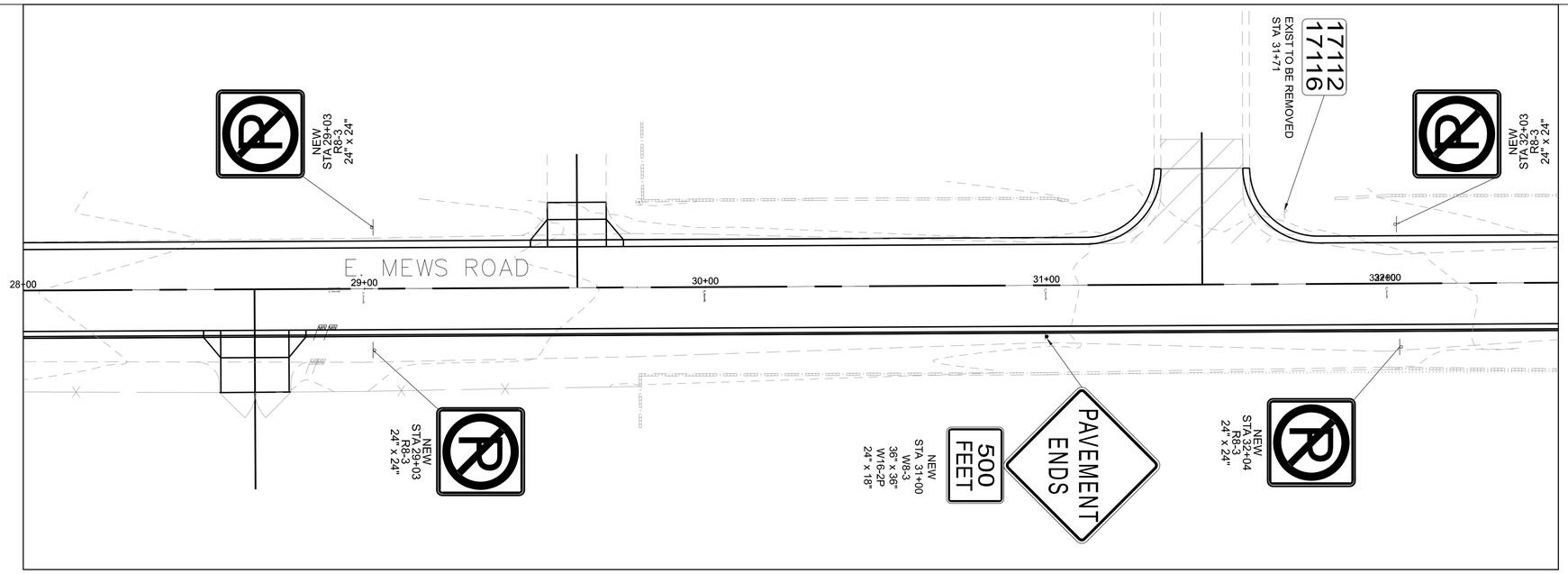
	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

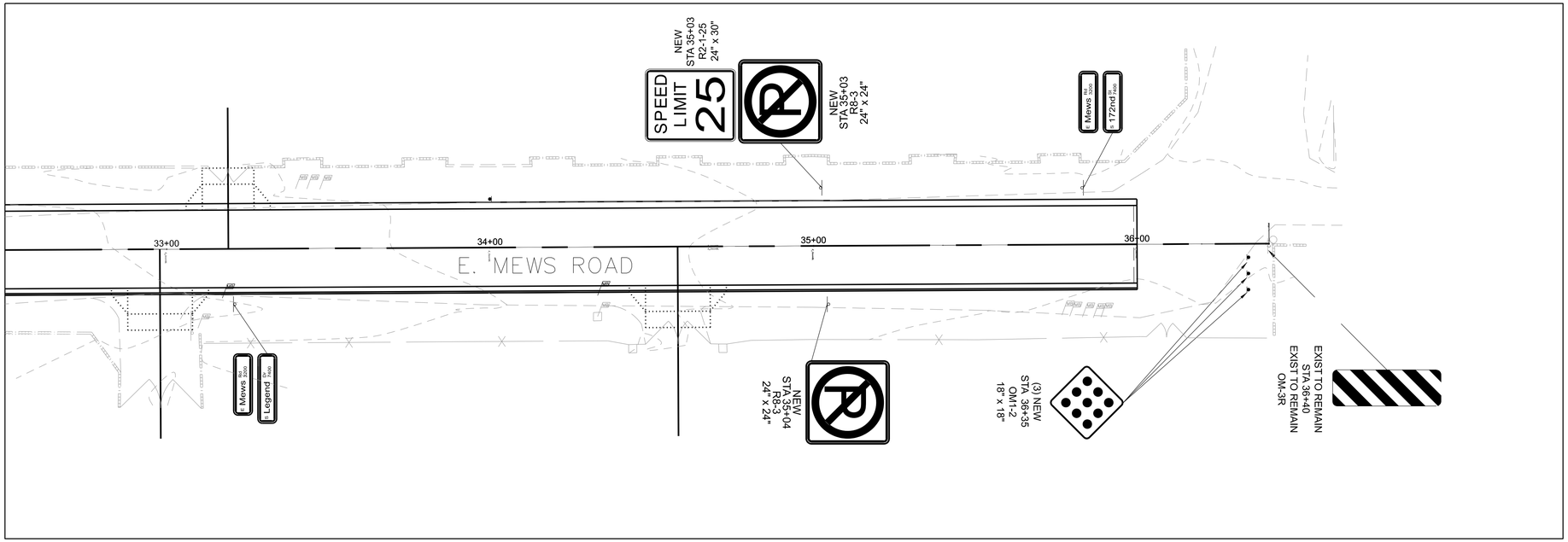
WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

MEWS ROAD SIGNING PLAN
STATION 19+00 TO STATION 28+00

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 MA GIL	GIL-0(218)T	28	52	
	LOCATION	MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST				DWG	SP03
STRUCTURE NO.	TRACS NO. T0336 01C					___ OF ___	





Registered Professional Engineer (Civil)
CERTIFICATE NO.
70847
MICHAEL J
SCHOEN
Date Signed 8/16/2024
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

MEWS ROAD SIGNING PLAN
STATION 10+00 TO STATION 19+00

ROUTE
MILEPOST
STRUCTURE NO.

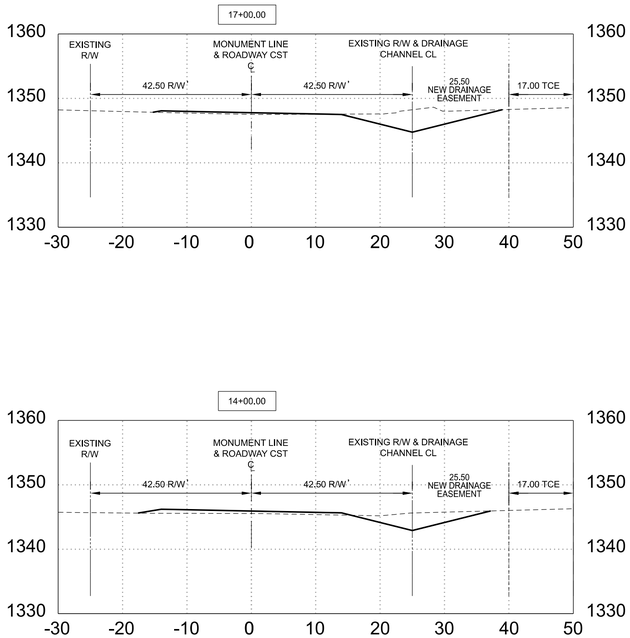
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 MA GIL	GIL-0(218)T	29	52	

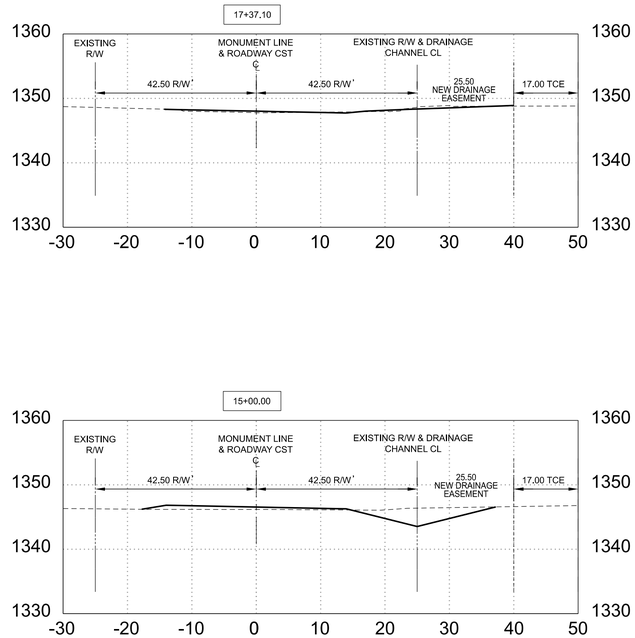
LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

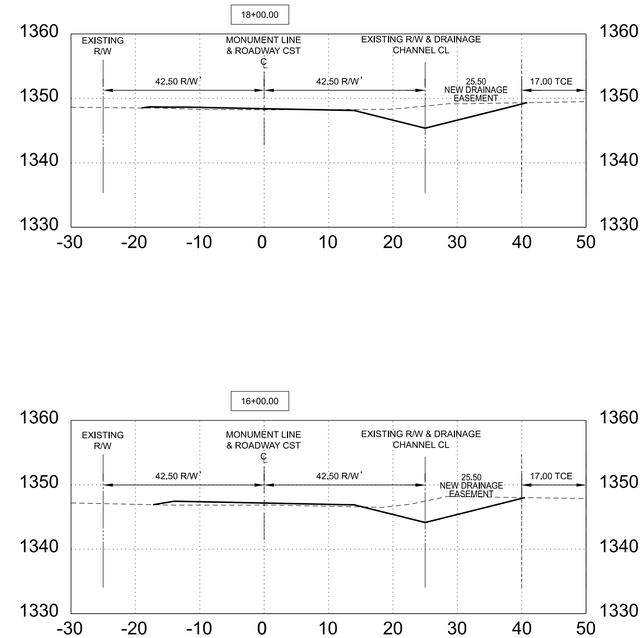
DWG SP04

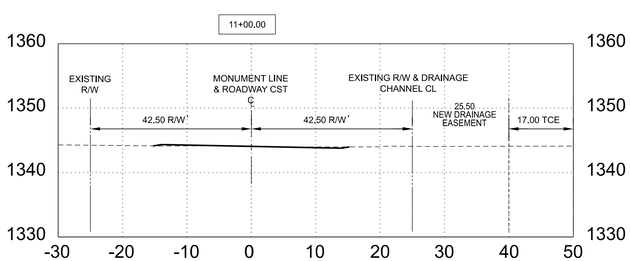
TRACS NO. T0336 01C

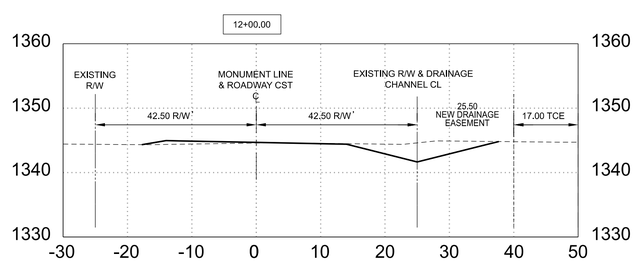
___ OF ___

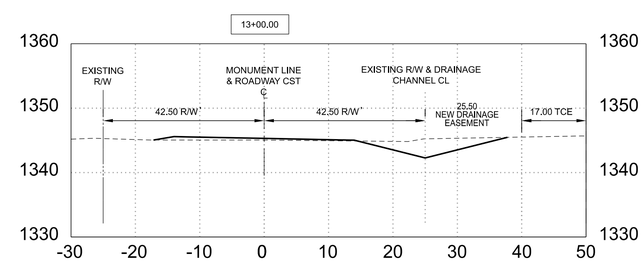












Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/1/2024 ARIZONA, U.S.A.

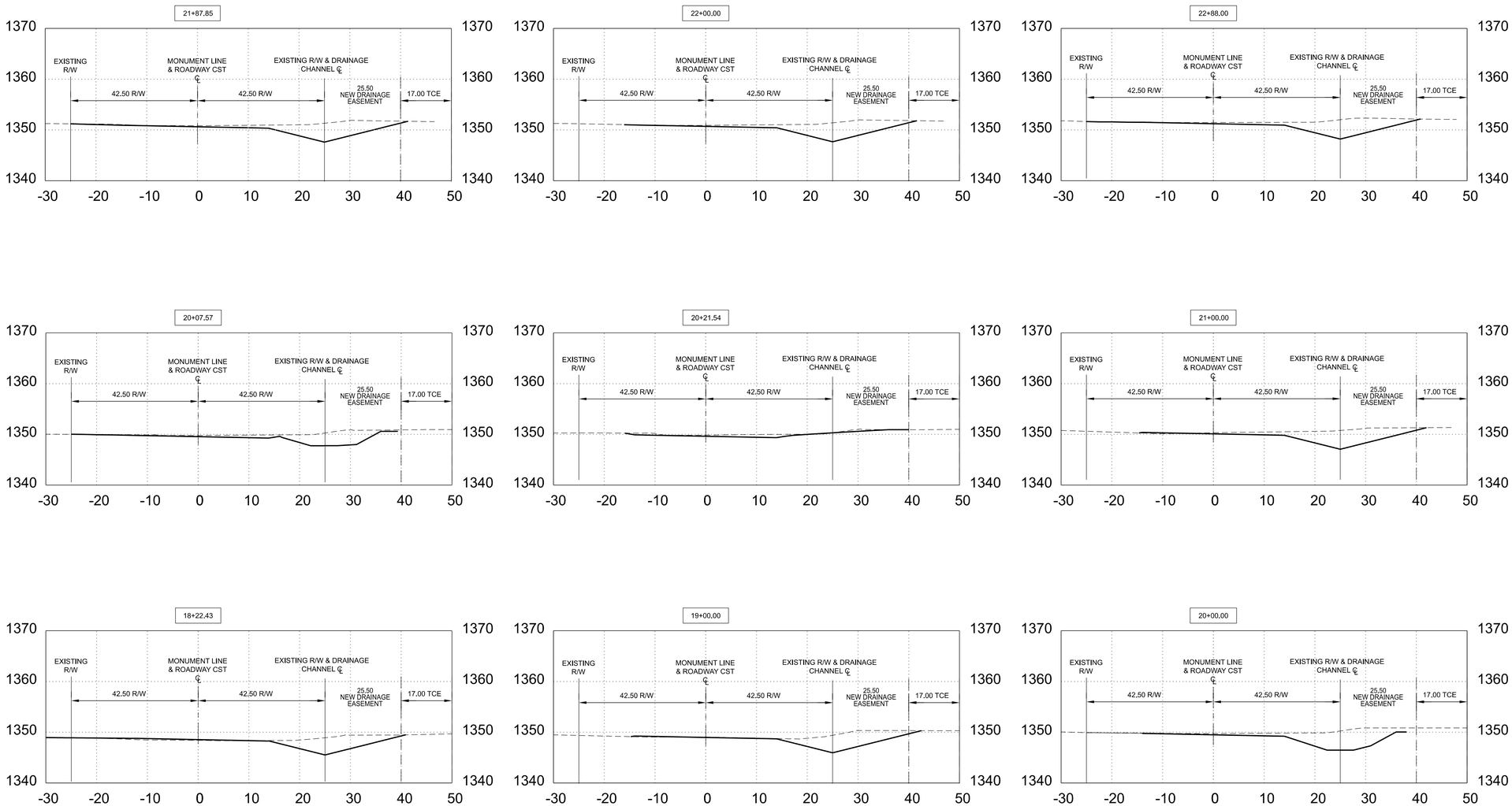
	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

SECTIONS

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 MA GIL	GIL-0(218)T	30	52	
STRUCTURE NO.	LOCATION: MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG	SEC01
	TRACS NO. T0336 01C					___ OF ___	



Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/11/23 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

SECTIONS

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

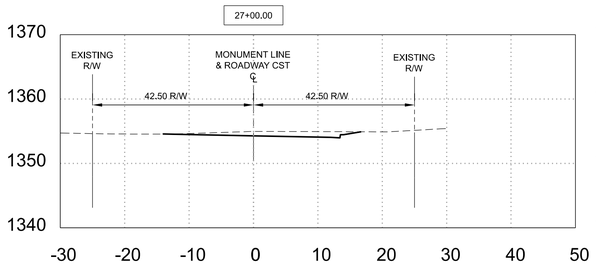
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	31	52	

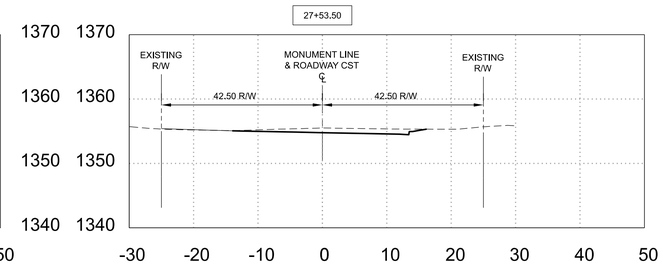
LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

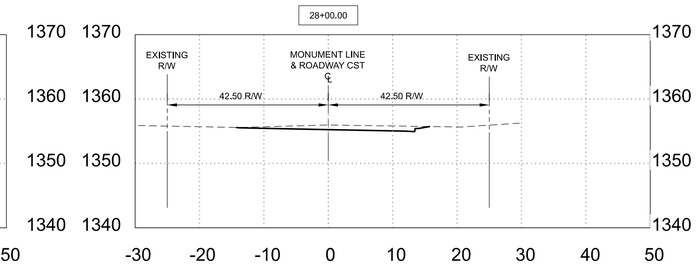
DWG SEC02

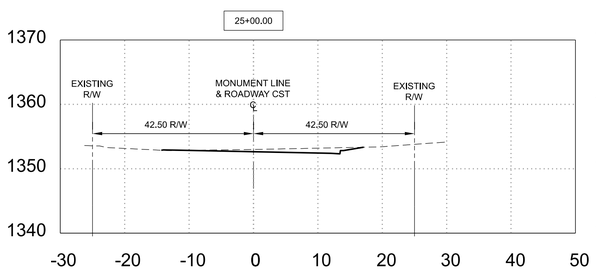
TRACS NO. T0336 01C

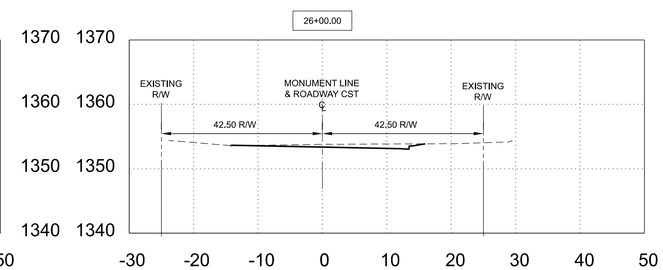
___ OF ___

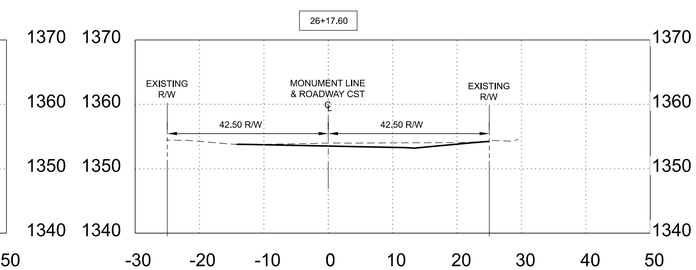


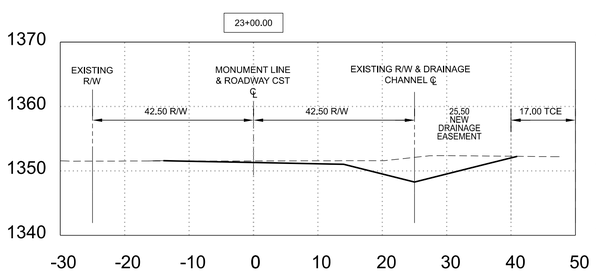


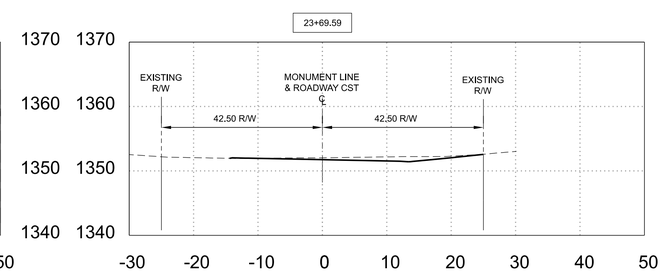


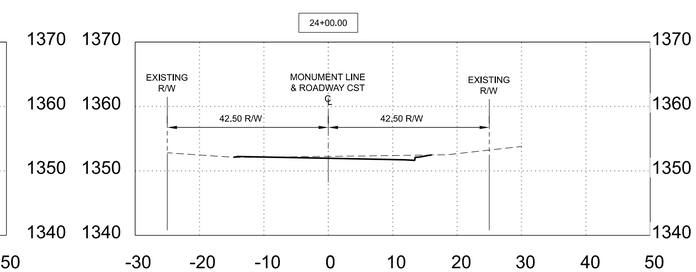












Registered Professional Engineer (Civil)
CERTIFICATE NO. 70847
MICHAEL J SCHOEN
Date Signed 8/11/2025
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

SECTIONS

ROUTE
MILEPOST
STRUCTURE NO.

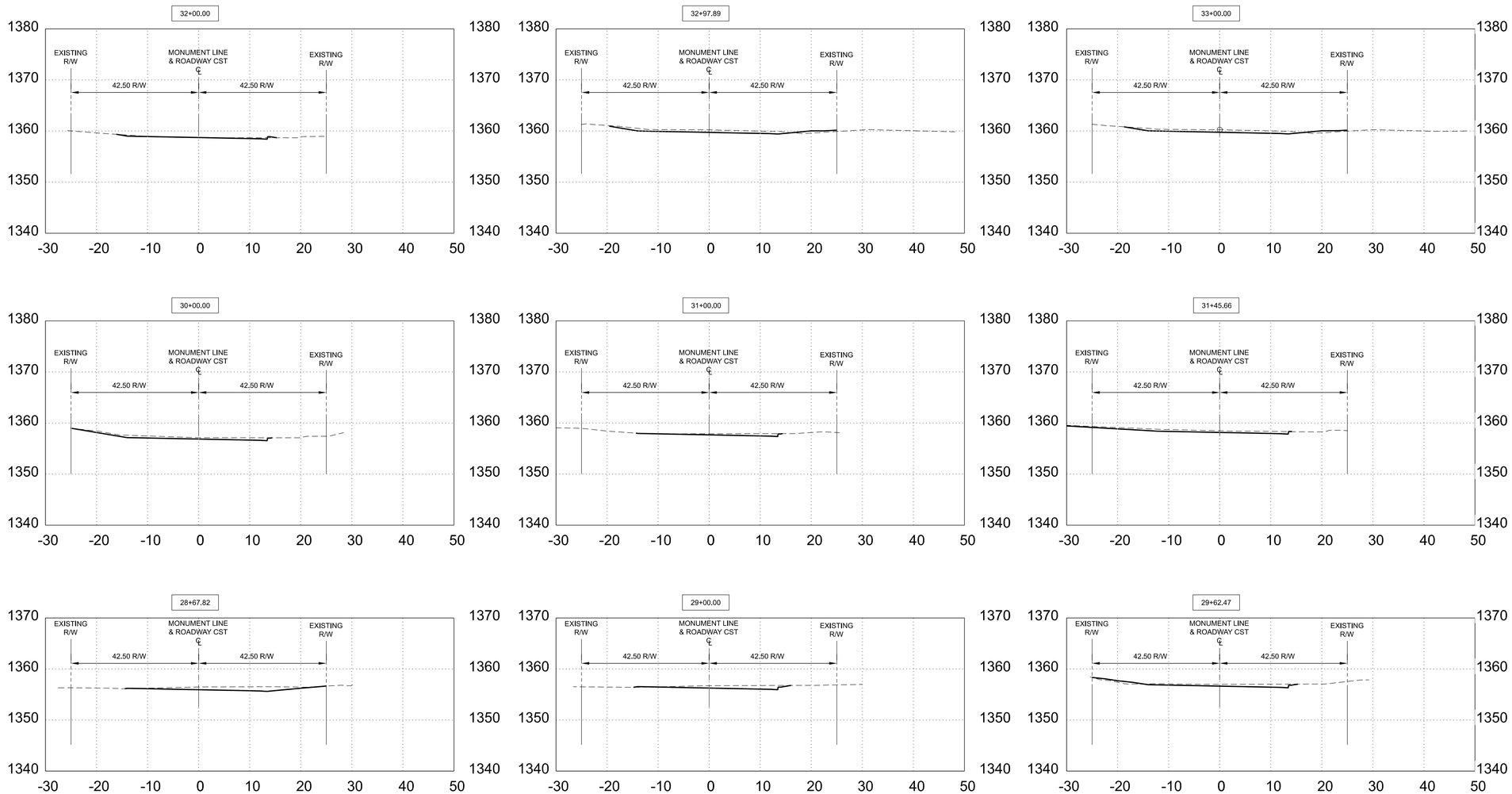
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 MA GIL	GIL-0(218)T	32	52	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG SEC03

TRACS NO. T0336 01C

___ OF ___



	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/1/2024 ARIZONA U.S.A.

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

SECTIONS

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

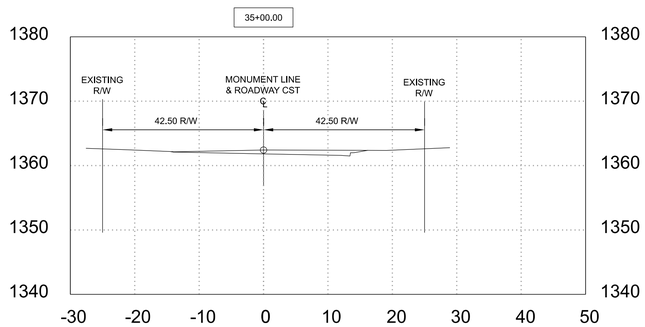
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	33	52	

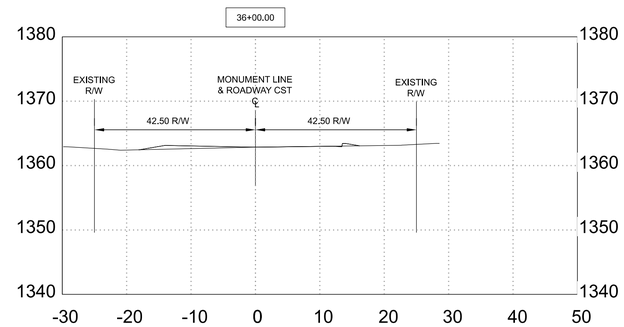
LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

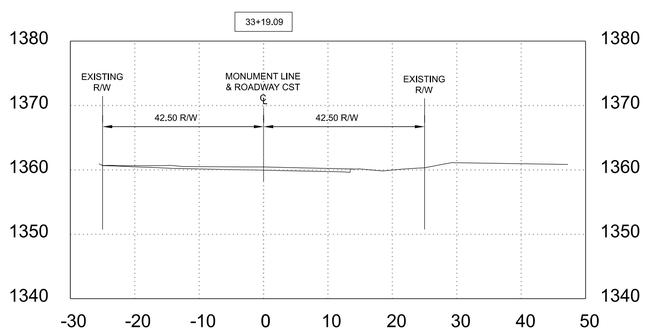
DWG SEC04

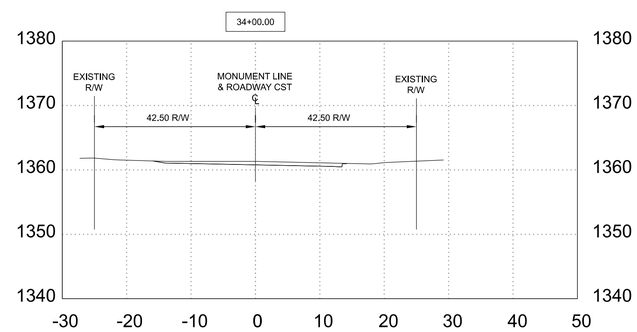
TRACS NO. T0336 01C

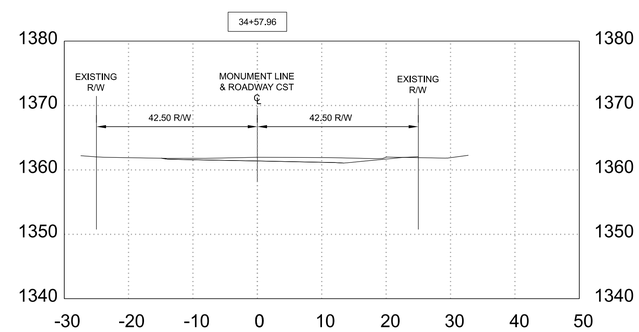
___ OF ___











Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/16/2024 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

SECTIONS

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	34	52	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG SEC05

TRACS NO. T0336 01C

___ OF ___

WATER LINE NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT MAG SPECIFICATIONS AND DETAILS WITH THE TOWN OF GILBERT'S ADDITIONS AND DELETIONS.
2. WATER LINES SHALL COMPLY WITH AWWA STANDARD PVC C-900 CLASS 235. RIEBER SEALING SYSTEM GASKET JOINT IS RECOMMENED AND PREFERRED. PIPE BEDDING FOR PVC C-900 SHALL CONFORM TO TOWN OF GILBERT STANDARD DETAIL GIL-302. ALL FITTINGS AND VALVES SHALL BE "MECHANICAL JOINT" TYPE, EXCEPT AS SHOWN ON TOWN OF GILBERT STANDARD DETAIL GIL-320. ALL WATER LINES TO BE PROPERLY RESTRAINED USING JOINT SYSTEM SUCH AS: MEGALUG OR AN APPROVED EQUAL.
3. THE TOWN ENGINEER SHALL BE NOTIFIED 24 HOURS PRIOR TO STARTING THE DIFFERENT PHASES OF CONSTRUCTION FOR SCHEDULING INSPECTIONS.
4. ALL WATER VALVES MUST BE REFERENCED AT ALL TIMES DURING CONSTRUCTION AND MADE AVAILABLE TO THE WATER DISTRIBUTION DIVISION. ONLY TOWN EMPLOYEES ARE AUTHORIZED TO OPERATE THE WATER VALVES AND FIRE HYDRANT CONNECTIONS TO THE TOWN'S WATER SYSTEM.
5. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE TOWN ENGINEER NAD/OR ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR WILL UNCOVER ALL EXISTING LINES BEING TIED INTO TO VERIFY THEIR LOCATION PRIOR TO TRENCHING. THE CONTRACTOR WILL LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND PIPELINES, TELEPHONE AND ELECTRIC CONDUITS, AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL OBSSERVE ALL POSSIBLE PRECAUTIONS TO AVOID DAMAGE TO SAME. CALL ARIZONA 811, BLUE STAKE CENTER AT (602) 263-1100 AND NOTIFY SRP.
7. ALL VALVES SHALL BE GATE TYPE, UNLESS OTHERWISE NOTED, AND OPEN COUNTER CLOCKWISE. WATER VALVES SHALL BE MUELLER, CLOW, WATEROUS, OR APPROVED EQUAL.
8. SUMMITS IN WATER LINES SHALL BE LOCATED AT FIRE HYDRANTS.
9. BACKFILLING SHALL NOT BE STARTED UNTIL LINES ARE APPROVED BY THE TOWN ENGINEER'S REPRESENTATIVE.
10. ALL BACKFILL FOR WATER LINES SHALL BE PER TOWN OF GILBERT STANDARD DETAIL GIL-302. ALL PAVEMENT AND SURFACE RESTORATION SHALL BE PER TOWN OF GILBERT STANDARD DETIAL GIL-270.
11. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
12. THE TOWN OF GILBERT IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGE TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. ALSO, THE TOWN WILL NOT PARTICIPATE IN THE COST OF CONSTUCTION OR UTILITY RELOCATION.
13. ORDINACE #1437, APPROVED BY THE TOWN COUNCIL IN OCTOBER 2002, STATES: NO CONSTRUCTION WATER FROM FIRE HYDRANTS SHALL BE USED ON PARCELS OR LOTS OF TEN ACRES OR MORE IN SIZE. FOR MORE INFORMATION, THE ORDINANCE IS LOCATED ON THE TOWN OF GILBERT WEBSITE. TO OBTAIN CONSTRUCTION WATER, THE CONTRACTOR IS REQUIRED TO MAKE APPLICATION WITH THE PUBLIC WORKS WATER DIVISION. A SECURITY DEPOSIT IS REQUIRED TO RECEIVE A FIRE HYDRANT METER. THE TOWN RESERVES THE RIGHT TO SPECIFY THE TIME AND LOCATION THAT CONSTRUCTION WATER CAN BE DELIVERED.
14. WATER SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE TOWN OF GILBERT STANDARD DETAIL GIL-310.
15. FIRE HYDRANTS SHALL BE PER TOWN OF GILBERT SUPPLEMENT TO MAG STANDARD SPECIFICATIONS OR APPROVED EQUAL AND INSTALLED PER TOWN OF GILBERT STANDARD DETAIL GIL-320. FIRE HYDRANTS SHALL BE 3 FEET 6 INCH DEPTH OF BURY. ADJUSTMENTS IN GRADE SHALL BE DONE USING "GRADELOK" OFFSET. EXTENSIONS ON FIRE HYDRANTS WILL NOT BE PERMITTED. A BLACK, HEAVY DUTY BAG WITH A "TIE DOWN" SHALL BE PLACED OVER ALL NEW HYDRANTS AND MAINTAINED UNTIL THE SYSTEM HAS BEEN APPROVED BY THE INSPECTOR.
16. TRAFFIC CONTRL SHALL BE PER THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES HANDBOOK AND TOWN OF GILBERT STANDARD DETAILS.
17. THE TOWN INSPECTOR WILL DETERMINE THE NUMBER AND LOCATION OF THE REQUIRED COMPACTION TESTS. THE CONTRACTOR/DEVELOPER WILL NOTIFY THE TESTING LAB, AND PAY THE COSTS TO PERFORM THE TESTS.
18. THE TOWN WILL NOT ACCEPT WATER LINES WITH LESS THAN 3 FEET OF COVER.
19. A MINIMUM OF SIX-FOOT HORIZONTAL SPACING BETWEEN WATER MAINS, SEWER, RECLAIMED WATER, AND WATER SERVICES SHALL BE MAINTAINED.
20. PRIOR TO FINAL APPROVAL AND ACCEPTANCE OF THE WORK THE DEVELOPER/CONTRACTOR WILL BE REQUIRED TO CLEAN AND REAPIR ADJACENT (OFF-PROJECT) ROADWAYS USED DURING THE COURSE OF THEIR CONSTRUCTION.
21. A 2" X 4" STAKE (PAINTED BLUE) SHALL BE SET ONE FOOT BEHIND EACH WATER SERVICE. ALL 2" X 4" STAKES MARKING WATER SERICES SHALL BE 5 FEET IN LENGTH AND FIRMLY SET INTO THE GROUND TO A DEPTH OF 3 FEET.
22. ALL BACKFLOW PREVENTION DEVICES SHALL MEET THE REQUIREMENTS OF THE TOWN OF GILBERT BACKFLOW PROTECTION ORDINANCE (#869), OTHERWISE KNOWN AS ARTICLE 7-14 OF THE TOWN OF GILBERT MUNICIPAL CODE: CROSS CONNECTION CONTROL.
23. ALL BACKFLOW DEVICES SHALL BE TESTED BY A STATE CERTIFIED BACKFLOW TESTER AND TEST RESULTS FORWARDED TO THE TOWN OF GILBERT BACKFLOW SPECIALIST. THE TOWN WILL PROVIDE AN UP-TO-DATE LIST OF CERTIFIED TESTERS FROM WHICH TO BE SELECTED. TESTER FEES WILL BE AT THE EXPENSE OF THE INSTALLER.
24. WATER MAIN CHLORINATION: CALCIUM HYPOCHLORITE SHALL BE ADDED TO ALL NEW WATER MAINS/FIRE LINES FOR DISINFECTION PER THE FOLLOWING:

    12 INCH MAINS - .35 LBS. OR 5.6 OZ. PER 100 FEET OF PIPE

    8 INCH MAINS - .12 LBS. OR 1.92 OZ. PER 100 FEET OF PIPE

    6 INCH MAINS - .08 LBS. OR .48 OZ PER 100 FEET OF PIPE
25. ALL WATER METER REGISTERS FURNISHED TO, OR INSTALLED IN THE TOWN OF GILBERT, ARIZONA SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS.

    ALL REGISTERS SHALL HAVE AN ENCODED OUTPUT AND UTILIZE SENSUS PROTOCOL. REGISTERS WILL HAVE ELECTRONIC TOUCH READ CAPABILITY AND BE ENTIRELY COMPATIBLE WITH CURRENT TOWN OF GILBERT METER READING EQUIPMENT.

    REGISTER RESOLUTION FOR METER SIZE SHALL BE AS FOLLOWS:

REGISTER RESOLUTION		
METER SIZE	(GALLONS)	METER TYPE
3/4"	1,000	MULTI-JET OR SINGLE-JET
1"	1,000	MULTI-JET OR SINGLE-JET
1-1/2" THRU 10"	1,000	SINGLE-JET

ALL METERS SHALL MEET AWWA NEW METER TEST STANDARDS

NOTE: A TOWN OF GILBERT PERMIT IS REQUIRED FOR THE INSTALLATION OF ANY LANDSCAPING OR IRRIGATION SYSTEM. IRRIGATION LINES MUST BE INSPECTED BEFORE BACKFILLING. RECORD DRAWINGS ARE ALSO REQUIRED.

USE THE FOLLOWING TABLE FOR METER BOXES AND METER BOX COVERS:

MAG STANDARD DETAILS		
METER SIZE	MAG STD DETAIL	MAG STD BOX NO
3/4"	#A6000485*	#A6000484*
1"	#A6000485*	#A6000484*
1 1/2" TO 2" PEDESTRIAN RATED	#P6001854X12	#A6001852-H2
1 1/2" TO 2" TRAFFIC RATED	#A6001640PCX12	#A6001947T-H2

*ARMORCAST PRODUCTS COMPANY OR DFWA2C-12-1A DFW PLASTIC COMPANY; COVER WITH HOLE FOR TOUCH PAD.

SEWER LINE NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT MAG SPECIFICATIONS AND DETAILS WITH THE TOWN OF GILBERT'S ADDITIONS AND DELETIONS.
2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION. THE TOWN ENGINEER SHALL BE NOTIFIED 24 HOURS PRIOR TO THE DIFFERENT PHASES OF CONSTRUCTION FOR SCHEDULING INSPECTIONS.
3. ACCEPTANCE OF THE COMPLETED RIGHT-OF-WAY IMPROVEMENTS WILL NOT BE GIVEN UNTIL RECORD DRAWINGS HAVE BEEN SUMITTED TO AND APPROVED BY THE OWN REPRESENTATIVE OR INSPECTOR.
4. LOCATION OF ALL WATER VALVES MUST BE REFERENCED AT ALL TIMES DURING CONSTRUCTION AND MADE AVAILABLE TO THE PUBLIC WORKS DEPARMENT. ONLY TOWN EMPLOYEES ARE AUTHORIZED TO OPERATE THE VALVES AND FIRE HYDRANT CONNECTIONS TO THE TOWN'S WATER SYSTEM.
5. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE TOWN ENGINEER AND/OR ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR WILL UNCOVER ALL EXISTING LINES BEING TIED INTO TO VERIFY THEIR LOCATION PRIOR TO TRENCHING. THE CONTRACTOR WILL LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND PIPELINES, TELEPHONE AND ELECTRIC CONDUITS, AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID DAMAGE TO THE SAME. CALL ARIZONA 811, BLUE STAKE CENTER AT (602) 263-1100 AND NOTIFY SRP.
7. BACKFILLING SHALL NOT BE STARTED UNTIL ALL LINES ARE APPROVED BY THE TOWN ENGINEER, TOWN REPRESENTATIVE, OR TOWN INSPECTOR.
8. ALL BACKFILL FOR PVC SEWER LINES SHALL BE PER TOWN OF GILBERT STANDARD DETAIL GIL-401. ALL BACKFILL FOR VCP SEWER LINES SHALL BE PER TOWN OF GILBERT STANDARD DETAIL GIL-402. ALL PAVEMENT AND SURFACE RESTORATION "SHALL" BE PER TOWN OF GILBERT STANDARD DETAIL GIL-270.
9. THE TOWN OF GILBERT IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. ALSO, THE TOWNWILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION.
10. MANHOLE STEPS SHALL NOT BE PERMITTED IN ANY SANITARY SEWER MANHOLES.
11. PRECAST MANHOLES TO HAVE IMPRESSION RING TYPE BASES, AND USE GROUT OR RAMNKET BETWEEN EACH PRECAST SECTION.
12. ALL RIGNS AND COVERS SHALL BE EAST JORDAN IRON WORKS #00222459 OR NEENAH #NF-DEETER 1295 FOR FOUR-FOOT MANHOLES AND EAST JORDAN IRON WORKS #00223124 OR NEENAH #NF-DEETER, 1296 FOR FIVE-FOOT MANHOLES.
13. ALL TAPS SHALL BE WYE TYPE.
14. ALL SEWER TAPS SHOULD BE 4 1/4 FEET DEEP AT THE PROPERTY LINE.
15. A MINIMUM OF 6 FEET OF HORIZONTAL SPACING BETWEEN SEWER AND WATER SERVICES SHALL BE MAINTAINED.
16. TRAFFIC CONTROL SHALL BE PER THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES HANDBOOK AND TOWN OF GILBERT STANDARD DETAILS.
17. THE TOWN INSPECTOR WILL DETERMINE THE NUMBER AND LOCATION OF THE REQUIRED COMPACTION TESTS. THE CONTRACTOR/DEVELOPER WILL NOTIFY THE TESTING LAB, COORDINATE WITH THE INSPECTOR AND TESTING LAB, AND PAY THE COSTS TO PERFORM THE TESTS.
18. ORDINANCE #1437, APPROVED BY THE TOWN COUNCIL IN OCTOBER 2002, STATES NO CONSTRUCTION WATER FROM FIRE HYDRANTS SHALL BE USED ON PARCELS OR LOTS OF TEN ACRES OR MORE IN SIZE. FOR MORE INFORMATION, THE ORDINANCE IS LOCATED ON THE TOWN OF GILBERT WEBSITE. TO OBTAIN CONSTRUCTION WATER, THE CONTRACTOR IS REQUIRED TO MAKE APPLICATION WITH THE PUBLIC WORKS WATER DIVISION. A SECURITY DEPOSIT IS REQUIRED TO RECEIVE A FIRE HYDRANT METER. THE TOWN RESERVES THE RIGHT TO SPECIFY THE TIME AND LOCATION THAT CONSTRUCITION WATER CAN BE DELIVERD.
19. THE TOWN WILL NOT ACCEPT SEWER LINES WITH LESS THAN 5 FEET OF COVER, UNLESS APPROVED BY THE TOWN ENGINEER.
20. PRIOR TO FINAL APPROVAL AND ACCEPTANCE OF THE WORK THE DEVELOPER/CONTRACTOR WILL BE REQUIRED TO CLEAN AND REPAIR ADJACENT (OFF-PROJECT) ROADWAYS USED DURING THE COURSE OF THEIR CONSTRUCTION.
21. A 2" X 4" STAKE (PAINTED GREEN) SHALL BE SET ONE FOOT BEHIND EACH SEWER SERVICE. ALL 2" X 4" STAKES MARKING SEWER SERVICES SHALL BE FIRMLY SET INTO THE GROUND AT THE ELEVATION OF THE FLOW LINE AND SHALL EXTEND 2 FEET ABOVE THE GROUND SURFACE.

MCESD NOTES:

1. ALL PIPES, FITTINGS, VALVES, FIRE HYDRANTS, AND OTHER APPURTENANCES SHALL CONFORM TO CURRENT AWWA, ASTM, AND NSF STANDARDS.
2. IN ACCORDANCE WITH ARIZONA ADMINISTRATIVE CODE (A.A.C). R-18-4-213, ALL MATERIALS ADDED AFTER JANUARY 1ST, 1993, WHICH MAY COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/1/2024 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

WATER AND SEWER GENERAL NOTES

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	0000 MA GIL	GIL-0(218)T	35	52	
	LOCATION	MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST				DWG	WN01
STRUCTURE NO.	TRACS NO. T0336 01C					___ OF___	

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

NOTE:
FOR PIPE CULVERT PLACEMENT SEE STANDARD DRAWINGS C-13.10 AND C-13.15

NOTE:
PIPE OPTIONS SELECTED ARE THOSE REQUIRED TO MEET MINIMUM SERVICE LIFE.
ALLOWABLE PIPE OPTIONS ARE INDICATED WITH THE LETTER 'X' IN THE SPACE. BLANK SPACES ARE NOT ALLOWABLE ALTERNATES.

CSP - CORRUGATED STEEL PIPE
CAP - CORRUGATED ALUMINUM PIPE
RCP - REINFORCED CONCRETE PIPE
NRCP - NON-REINFORCED CONCRETE PIPE
NRCIPCP - NON-REINFORCED CAST-IN-PLACE CONCRETE PIPE
CHDPEPP - CORRUGATED HIGH-DENSITY POLYETHYLENE PLASTIC PIPE

DESCRIPTION																											CSP				CAP		RCP	NRCP	NRCIPCP	CHDPEPP	END TREATMENT															QUANTITIES		
				In.	In.	Ft.	Degree																				In.	Coating			In.				In.		Each															Cubic Yard		
																																					End Section	Ea	Catch Basin, Manhole, Headwall & Junction Structure					Ft.			Grate	Ft.							
Station	Plan Reference Number	◒ Controlling Fill Height Range	Size, Corrugated	Size, Smooth	Length (0)	Skew (0)	◪ Corrugation	Wall Thickness (0.000)	Zinc	Bituminous Coated Zinc	Aluminum	Bituminous Coated Aluminum	◪ Corrugation	Wall Thickness (0.000)	Uncoated	Bituminous Coated	Class - Non-Trench	Class - Trench	Class	Minimum Wall Thickness (0)	AASHTO M-294 Type C	AASHTO M-294 Type S	C-13.20 & C-13.25	Detail ____	Size, (In) Manhole	Standard ____ or Detail ____	S-Single / D-Double	Location	H (0.0)	L Wing (0.0)	L 18" Slotted Drain (0)	L 24" Slotted Drain (0)	Type	Elevation (0.00)	Depth	L (0.0)	Pipe Excavation (0)	Pipe Backfill (0) C-13.15	Drainage Excavation (0)	Berm/Dike Embankment (0)	REMARKS
Sta 11+14.39	1	6		8	186																			60	DT01										73	73			ARMOROCK OR APPROVED EQUAL
Sta 11+65.07	2	4		8	259																			60	DT01										64	64			ARMOROCK OR APPROVED EQUAL
Sta 14+95.06	3	4		8	319																			60	DT01										79	79			ARMOROCK OR APPROVED EQUAL
Sta 18+17.89	4	4		8	204																			60	DT01										50	50			ARMOROCK OR APPROVED EQUAL
Sta 20+26.77	5	4		8	153																			60	DT01										38	38			ARMOROCK OR APPROVED EQUAL
Sta 21+82.62	6	4		8	154																			60	DT01										38	38			ARMOROCK OR APPROVED EQUAL
Sta 23+40.53	7	4		8	278																			60	DT01										69	69			ARMOROCK OR APPROVED EQUAL
Sta 26+22.60	8	4		8	121																			60	DT01										30	30			ARMOROCK OR APPROVED EQUAL
Sta 27+48.50	9	4		8	204																			60	DT01										50	50			ARMOROCK OR APPROVED EQUAL
Sta 29+57.47	10	4		8	179																			60	DT01										44	44			ARMOROCK OR APPROVED EQUAL
Sta 31+40.69	11	4		8	239																			60	DT01										59	59			ARMOROCK OR APPROVED EQUAL
Sta 33+84.47	12	4		8	239																			60	DT01										59	59			ARMOROCK OR APPROVED EQUAL

REV. DATE: 07/27/2012

FILL HEIGHT RANGE TABLE (Ft.)												
RANGE NO.		1	2	3	4	5	6	7	8	9	10	11	12
FILL	>	1	3	5	8	11	15	20	25	30	40	55	70
HEIGHT (Ft.)	≤	3	5	8	11	15	20	25	30	40	55	70	90

◒ SHOULD FIELD CONDITIONS VARY FROM THE RANGE INDICATED, CONTACT DESIGN FOR RE-EVALUATION OF PIPE DESIGN REQUIREMENTS.

◪ PIPE CORRUGATION			
A	2⅔x½	D	6x2
B	3x1	E	3x1 or 9x2½
C	9x2½		

NEW PIPE SUMMARY SHEET

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/16/2024 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

PIPE SUMMARY TABLE

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	36	52	

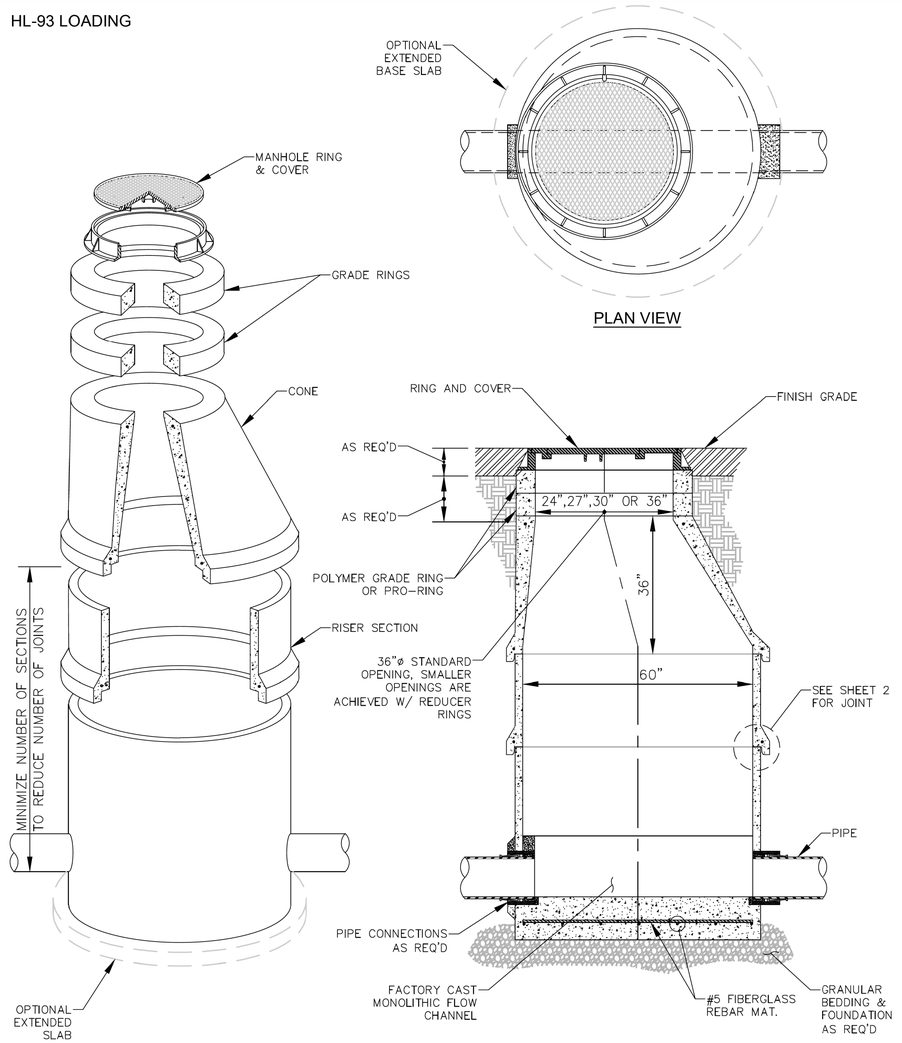
LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG SM01

TRACS NO. T0336 01C

___ OF ___

HL-93 LOADING



60" POLYMER MONOLITHIC MANHOLE SPECIFICATIONS

WALL THICKNESS	AVAILABLE BASE HEIGHTS	AVAILABLE RISER HEIGHTS	WALL WEIGHT/FT	APPROX. WEIGHT 3' BASE	APPROX. WEIGHT 4' BASE	CONE WEIGHT
2"	3', 4', 5'	1', 2', 3', 4', 5', 6', 7'	375 LBS/FT	5,640 LBS	6,350 LBS	2,000 LBS

** ADD 250 LBS TO EACH RISER FOR THE WEIGHT OF THE BELL.

ARMOROCK

SHEET: 60" POLYMER MANHOLE

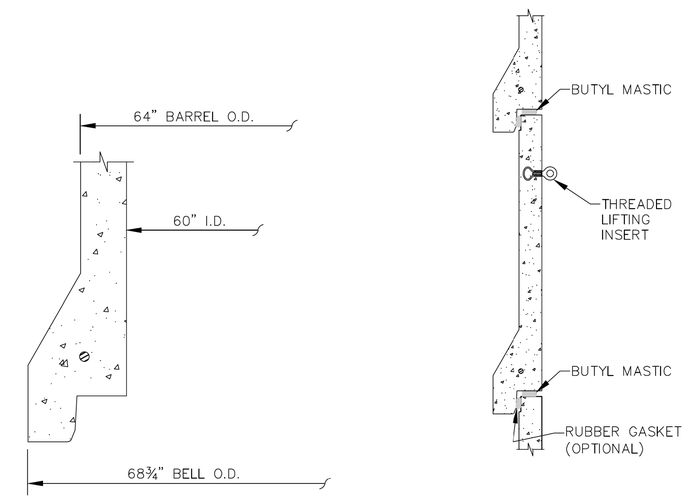
SCALE: N.T.S. DRAWN: RMP

DATE: 8-2-2016 TITAN #:

PROJECT:

LOCATION: BOULDER CITY, NV PH: 702-824-9702

1 of 2



60" JOINT DETAIL

60" STACK UP

POLYMER MANHOLE SPECIFICATIONS

I.D.	O.D.	WALL THICKNESS	WEIGHT PER FOOT
60"	64"	2"	375 lb

**ADD 250 LBS TO EACH RISER FOR THE WEIGHT OF THE BELL.

ARMOROCK

SHEET: 60" POLYMER MANHOLE JOINT

SCALE: N.T.S. DRAWN: RMP

DATE: 8-2-2016 TITAN #:

PROJECT:

LOCATION: BOULDER CITY, NV PH: 702-824-9702

2 of 2

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/11/2016 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc. 1230 West Washington Street, Suite 405 Tempe, AZ 85281

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

ARMOR ROCK MANHOLE DETAILS

ROUTE

MILEPOST

STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	37	52	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

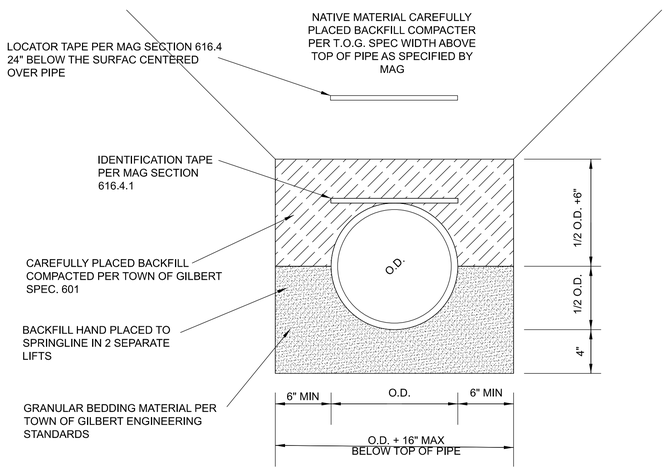
DWG WD01

TRACS NO. T0336 01C

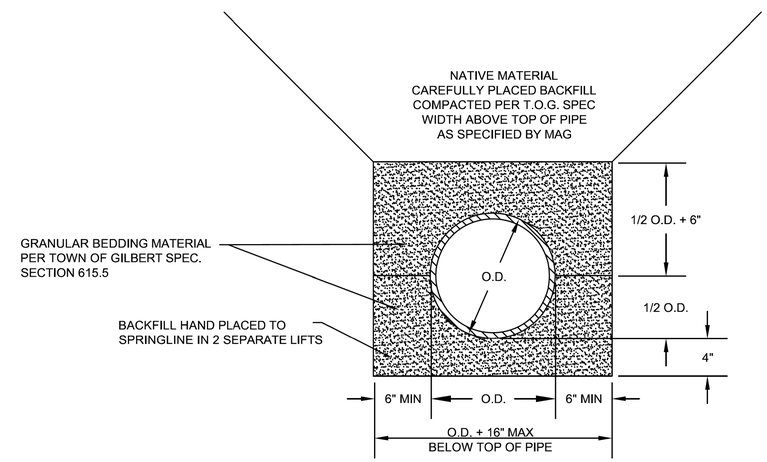
___ OF ___

NOTES:

1. INSTALL IN ACCORDANCE WITH MAG SECTION 616
2. LOCATOR AND IDENTIFICATION TAPE AS SPECIFIED PER MAG SECTION 616 OR APPROVAL BY THE T.O.G



BEDDING DETAIL C-900 WATER PIPE WITH LOCATION TAPE



PVC SEWER PIPE BEDDING DETAIL
NTS

GILBERT ARIZONA	STANDARD DETAIL	BEDDING DETAIL PVC SEWER PIPE	APPROVED ____ TOWN ENGINEER ____ DATE	DETAIL No. GIL-401

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/16/2024 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

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

MAG/TOG STANDARD DETAILS

ROUTE ____
MILEPOST ____
STRUCTURE NO. ____

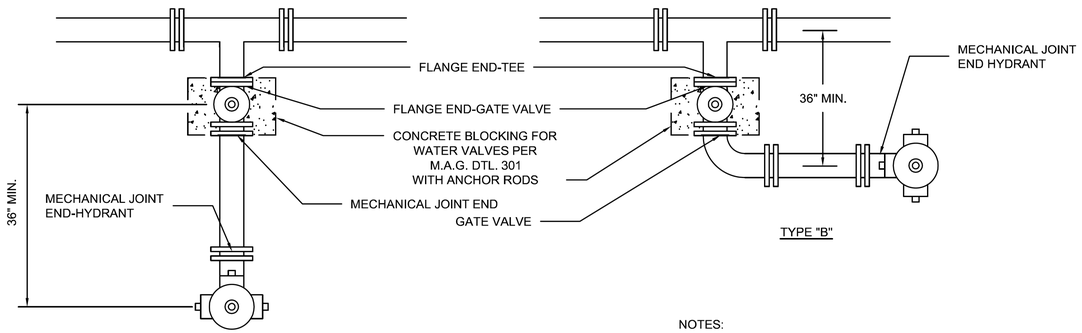
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 MA GIL	GIL-0(218)T	38	52	____

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG WD02

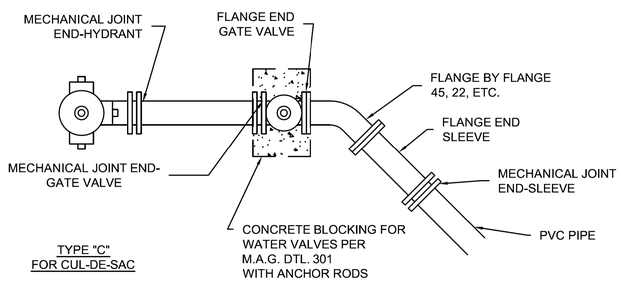
TRACS NO. T0336 01C

___ OF ___



TYPE "A"

TYPE "B"

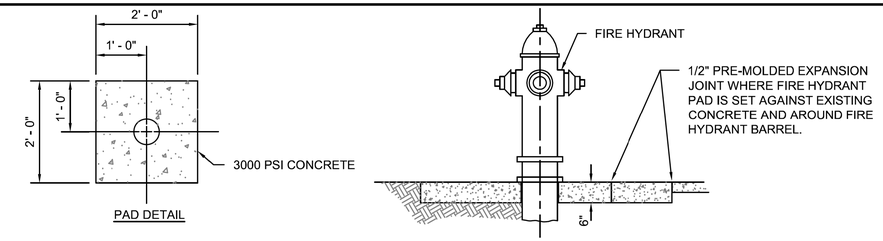


TYPE "C"
FOR CUL-DE-SAC

NOTES:

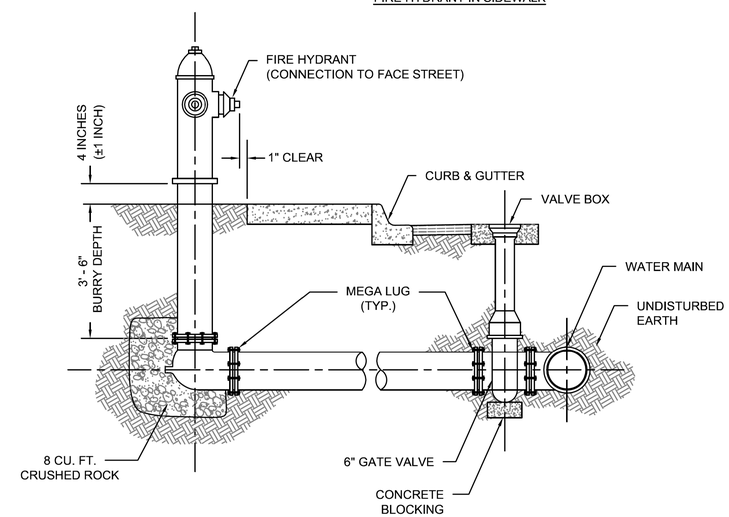
1. FIRE HYDRANT VALVES SHALL BE RESTRAINED TO MAIN LINE FITTING BY FLANGE.
2. FIRE HYDRANTS SHALL CONFORM TO T.O.G. FIRE HYDRANT SPECIFICATIONS
3. CONNECTIONS SHALL BE 2 1/2" N.S. & 4 1/2" N.S. THREADS.
4. VALVE BOX INSTALLATION PER M.A.G. DTL. 391-1-C.
5. ALL CONNECTIONS FROM THE MAIN LINE FITTING TO THE HYDRANT SHALL BE DUCTILE IRON.
6. CONSTRUCT DRAIN PIT PER M.A.G. DTL. 360-1.
7. LOCATE FIRE HYDRANT PER M.A.G. DETAIL 362
8. ELEVATION OF FIRE HYDRANT SHALL BE PER GIL-320-2.

GILBERT ARIZONA	STANDARD DETAIL	FIRE HYDRANT	APPROVED ____ TOWN ENGINEER ____ DATE	DETAIL No. GIL-320-1



PAD DETAIL

FIRE HYDRANT IN SIDEWALK



GILBERT ARIZONA	STANDARD DETAIL	FIRE HYDRANT	APPROVED ____ TOWN ENGINEER ____ DATE	DETAIL No. GIL-320-2

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/16/2024 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

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Tempe, AZ 85281

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

MAG/TOG STANDARD DETAILS

ROUTE ____
MILEPOST ____
STRUCTURE NO. ____

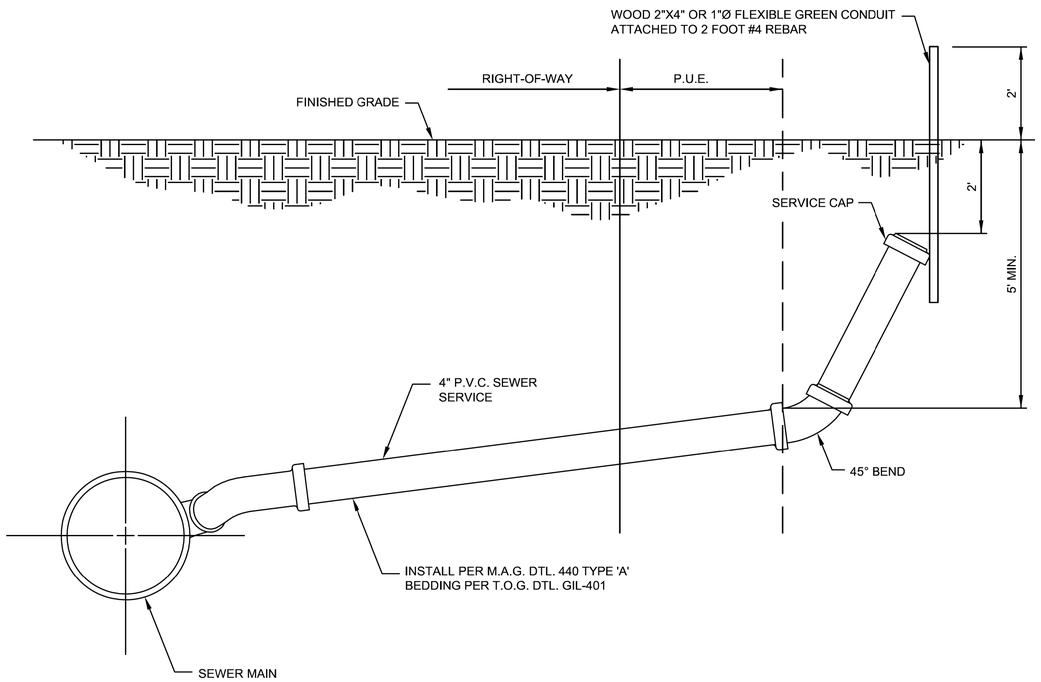
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 MA GIL	GIL-0(218)T	39	52	____

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

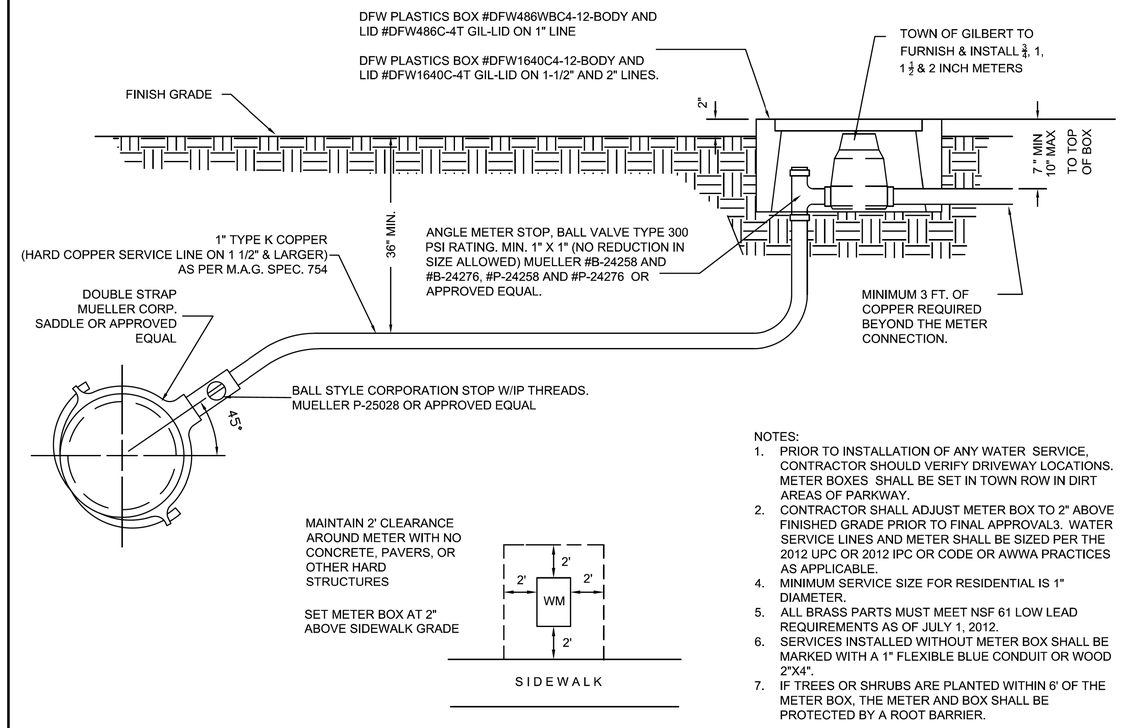
DWG WD03

TRACS NO. T0336 01C

___ OF ___



GILBERT ARIZONA	STANDARD DETAIL	4" SEWER SERVICE INSTALLATION	APPROVED ____ TOWN ENGINEER ____ DATE	DETAIL No. GIL-410



NOTES:

1. PRIOR TO INSTALLATION OF ANY WATER SERVICE, CONTRACTOR SHOULD VERIFY DRIVEWAY LOCATIONS. METER BOXES SHALL BE SET IN TOWN ROW IN DIRT AREAS OF PARKWAY.
2. CONTRACTOR SHALL ADJUST METER BOX TO 2" ABOVE FINISHED GRADE PRIOR TO FINAL APPROVAL3. WATER SERVICE LINES AND METER SHALL BE SIZED PER THE 2012 UPC OR 2012 IPC OR CODE OR AWWA PRACTICES AS APPLICABLE.
4. MINIMUM SERVICE SIZE FOR RESIDENTIAL IS 1" DIAMETER.
5. ALL BRASS PARTS MUST MEET NSF 61 LOW LEAD REQUIREMENTS AS OF JULY 1, 2012.
6. SERVICES INSTALLED WITHOUT METER BOX SHALL BE MARKED WITH A 1" FLEXIBLE BLUE CONDUIT OR WOOD 2"X4".
7. IF TREES OR SHRUBS ARE PLANTED WITHIN 6' OF THE METER BOX, THE METER AND BOX SHALL BE PROTECTED BY A ROOT BARRIER.

CLEARANCES AROUND METER BOX

GILBERT ARIZONA	STANDARD DETAIL	1" TO 2" WATER SERVICE INSTALLATION	APPROVED ____ TOWN ENGINEER ____ DATE	DETAIL No. GIL-310

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/11/2023 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

MAG/TOG STANDARD DETAILS

ROUTE ____
MILEPOST ____
STRUCTURE NO. ____

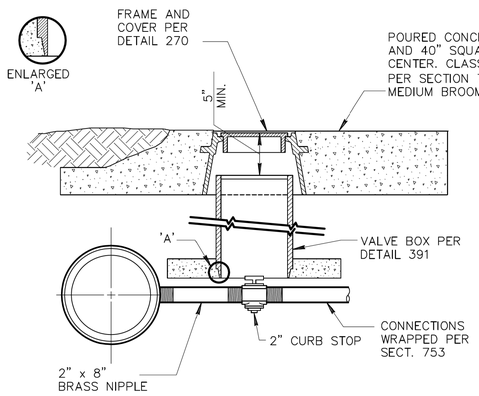
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 MA GIL	GIL-0(218)T	40	52	____

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

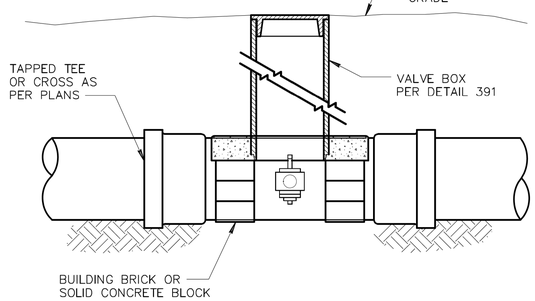
DWG WD04

TRACS NO. T0336 01C

___ OF ___



TYPE 'A'



TYPE 'B'

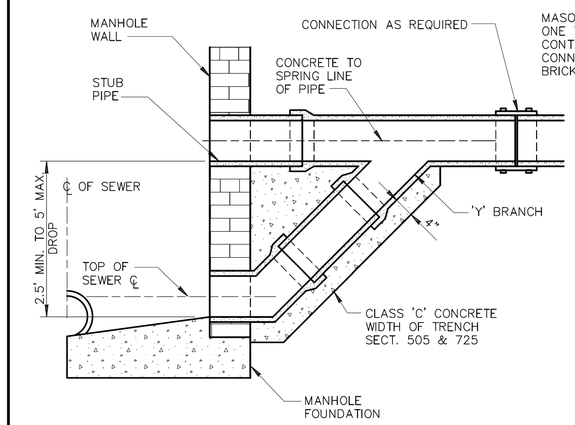
NOTES:

1. CURB STOP TO BE MUELLER ORISEAL (H–10283), FORD BALL VALVE B11–777, HAYES BULLETIN 400, J. JONES (J–1900) OR APPROVED EQUAL.
2. REDUCER MAY BE USED WHEN CONNECTING TO SMALLER GALVANIZED PIPE.
3. THIS DETAIL IS TO BE USED WHEN CONNECTING EXISTING GALVANIZED PIPE TO ASBESTOS CEMENT PIPE OR CAST IRON PIPE.

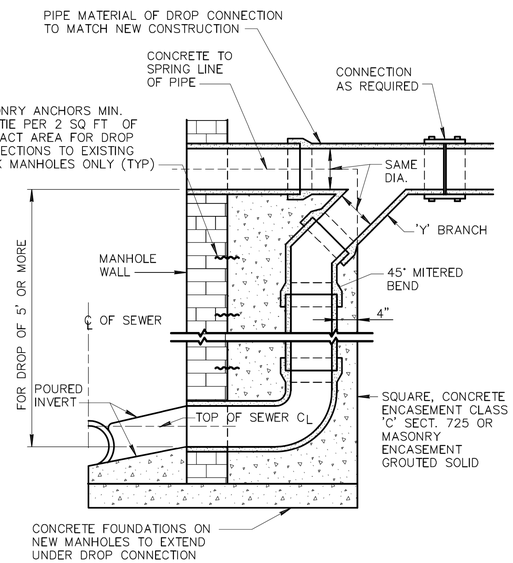
NOTE:

1. VALVE BOX TO BE SUPPORTED ON BRICKS TO PREVENT VERTICAL LOADS FROM BEING TRANSMITTED TO THE SMALL PIPE.

DETAIL NO.			REVISED	DETAIL NO.
389	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	CURB STOP WITH VALVE BOX AND COVER	01–01–2001	389



TYPE A
2.5' TO 5' DROP



TYPE B
5' OR MORE

DETAIL NO.			REVISED	DETAIL NO.
426	MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	DROP SEWER CONNECTIONS	01–01–2007	426

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 01/24/2024 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

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

MAG/TOG STANDARD DETAILS

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	41	52	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

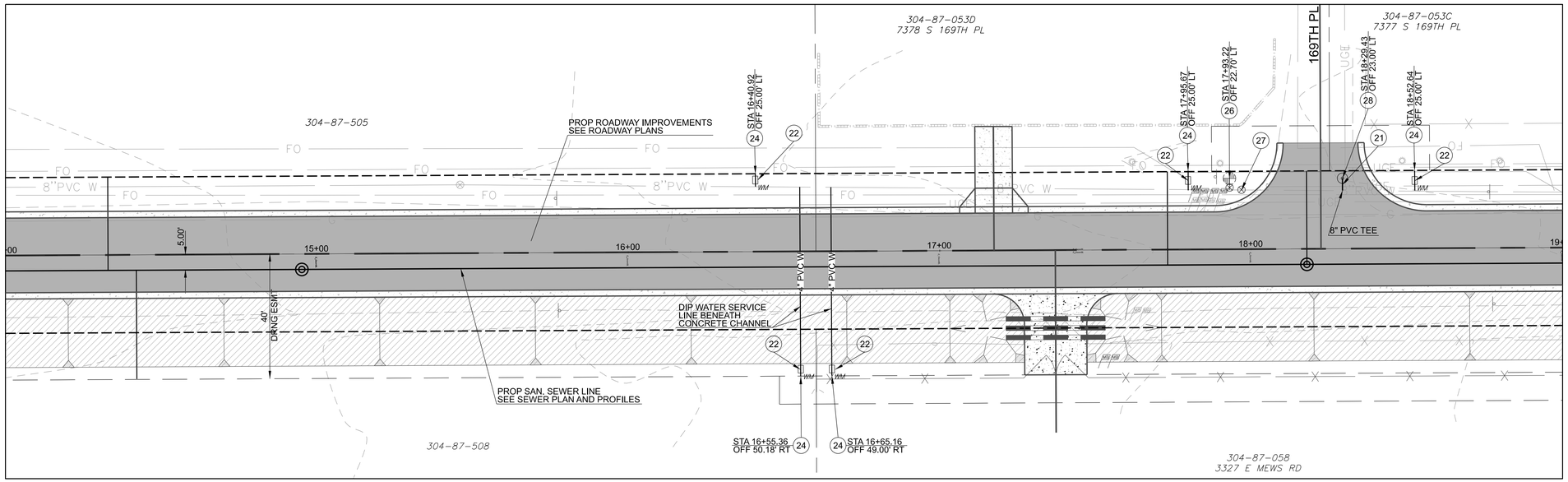
DWG WD05

TRACS NO. T0336 01C

___ OF ___

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
22	NEW 1" WATER METER (PURCHASED FROM TOG) WITH WATER METER BOX PER GIL-310	EA	5
24	NEW 1" WATER SERVICE INSTALLATION PER TOG STD DTL GIL-310. END WITH CAP AND GASKET PER ADOT SPEC 809-2.01	EA	5
26	NEW FIRE HYDRANT PER GIL 320-1 & 2	EA	1
27	INSTALL 8" WEDGE GATE VALVE, EPOXY COATED INSIDE PER AWWA C-550	EA	1
28	CURB STOP PER MAG STD DTL 389, TYPE A	EA	1



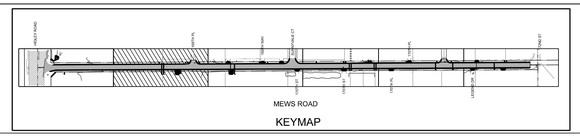
MEWS ROAD

N

EXST UTIL ELEVATIONS ARE ASSUMED AT 3-FT UNDER EXST GROUND. THESE ELEVATIONS WILL BE UPDATED PER POTHOLING RESULTS

THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A NIGHT TIE-IN FOR ANY NEW WATER LINE THAT WILL AFFECT EXISTING SERVICES SUFFICIENT TO WARRANT SAME IN THE OPINION OF THE TOWN OF GILBERT OFF-SITE INSPECTOR

CONTRACTOR TO VERIFY ELEVATION OF EXISTING SEWER STUB BEFORE PROCEEDING WITH BALANCE OF SEWER TRENCHING



KEYMAP

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 01/24/2024 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

WATER LINE PLAN

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	42	52	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

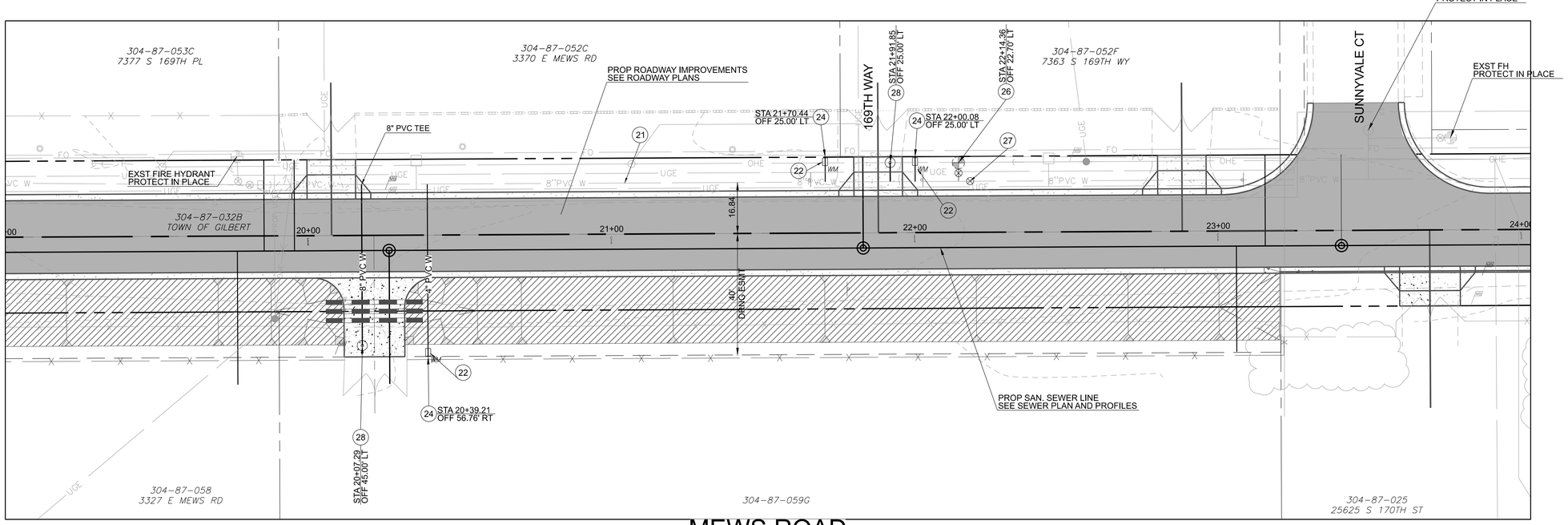
DWG W02

TRACS NO. T0336 01C

___ OF ___

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
22	NEW 1" WATER METER (PURCHASED FROM TOG) WITH WATER METER BOX PER GIL-310	EA	3
24	NEW 1" WATER SERVICE INSTALLATION PER TOG STD DTL GIL-310. END WITH CAP AND GASKET PER ADOT SPEC 809-2.01	EA	3
26	NEW FIRE HYDRANT PER GIL 320-1 & 2	EA	1
27	INSTALL 8" WEDGE GATE VALVE, EPOXY COATED INSIDE PER AWWA C-550	EA	1
28	CURB STOP PER MAG STD DTL 389, TYPE A	EA	2

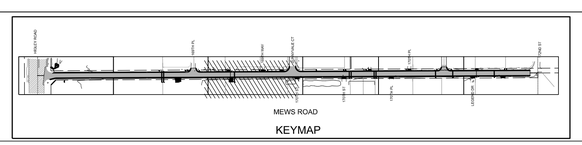


N

EXST UTIL ELEVATIONS ARE ASSUMED AT 3-FT UNDER EXST GROUND. THESE ELEVATIONS WILL BE UPDATED PER POTHOLING RESULTS

THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A NIGHT TIE-IN FOR ANY NEW WATER LINE THAT WILL AFFECT EXISTING SERVICES SUFFICIENT TO WARRANT SAME IN THE OPINION OF THE TOWN OF GILBERT OFF-SITE INSPECTOR

CONTRACTOR TO VERIFY ELEVATION OF EXISTING SEWER STUB BEFORE PROCEEDING WITH BALANCE OF SEWER TRENCHING



KEYMAP

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/11/2023 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

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Tempe, AZ 85281

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

WATER LINE PLAN

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

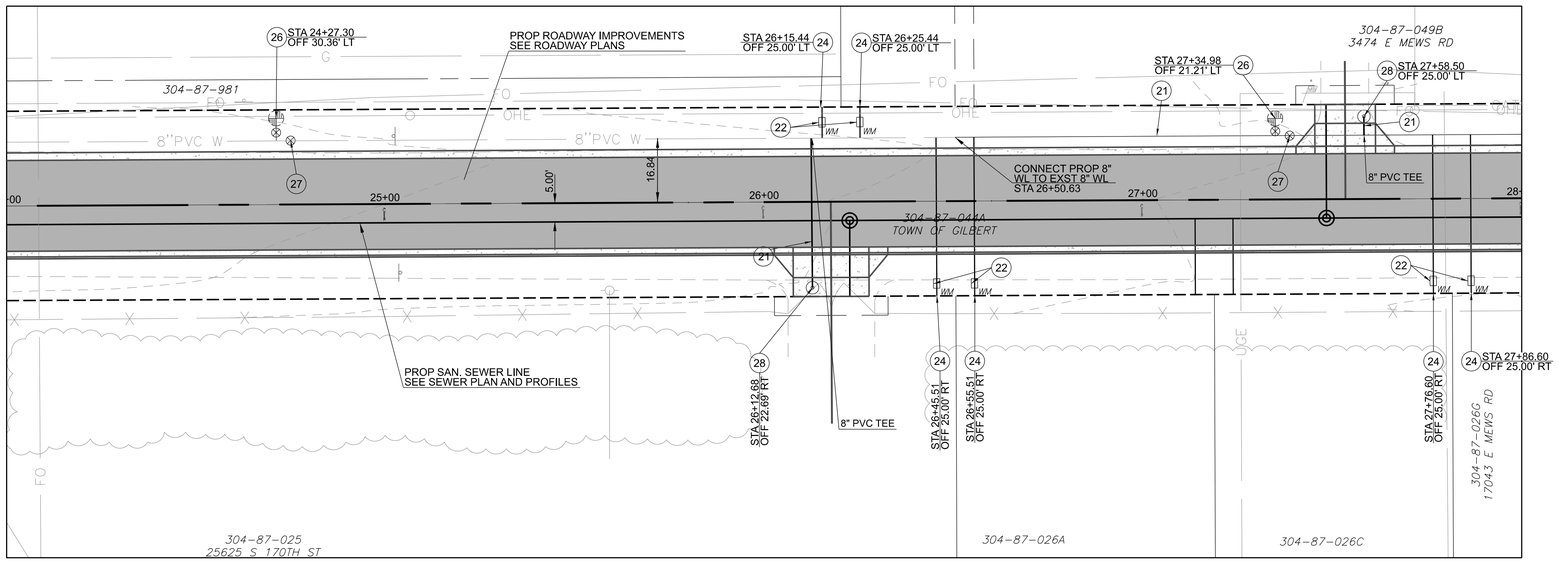
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	43	52	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG W03

TRACS NO. T0336 01C

___ OF ___



MEWS ROAD

CONSTRUCTION NOTES

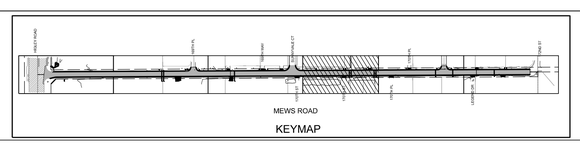
NO.	DESCRIPTION	UNIT	QTY
21	NEW 8" PVC C900 WATERLINE, DR18; PIPE BEDDING TO CONFORM TO TOG STD DTL GIL-302. MIN DEPTH PER DETAIL ON DWG DT02. TO BE PAID UNDER ITEM 8080298	LF	194
22	NEW 1" WATER METER (PURCHASED FROM TOG) WITH WATER METER BOX PER GIL-310	EA	6
24	NEW 1" WATER SERVICE INSTALLATION PER TOG STD DTL GIL-310. END WITH CAP AND GASKET PER ADOT SPEC 809-2.01	EA	6
26	NEW FIRE HYDRANT PER GIL 320-1 & 2	EA	2
27	INSTALL 8" WEDGE GATE VALVE, EPOXY COATED INSIDE PER AWWA C-550	EA	2
28	CURB STOP PER MAG STD DTL 389, TYPE A	EA	2

N

EXST UTIL ELEVATIONS ARE ASSUMED AT 3-FT UNDER EXST GROUND. THESE ELEVATIONS WILL BE UPDATED PER POTHOLING RESULTS

THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A NIGHT TIE-IN FOR ANY NEW WATER LINE THAT WILL AFFECT EXISTING SERVICES SUFFICIENT TO WARRANT SAME IN THE OPINION OF THE TOWN OF GILBERT OFF-SITE INSPECTOR

CONTRACTOR TO VERIFY ELEVATION OF EXISTING SEWER STUB BEFORE PROCEEDING WITH BALANCE OF SEWER TRENCHING



KEYMAP

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/11/23 ARIZONA, U.S.A.

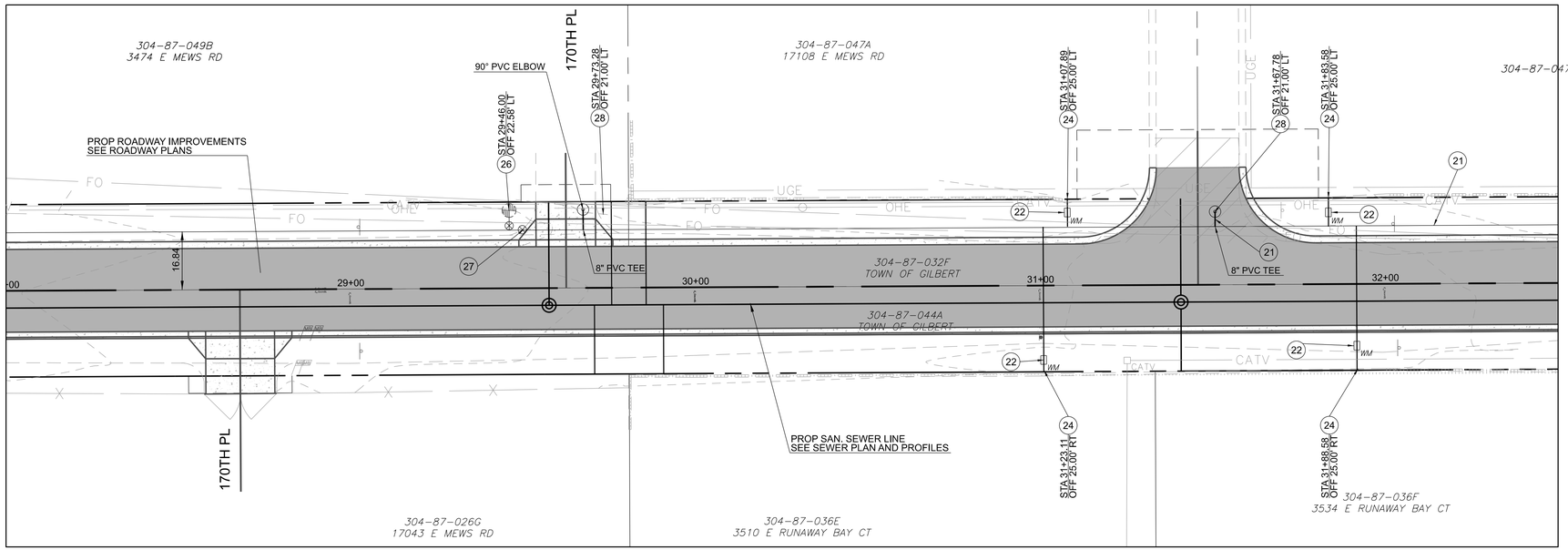
	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

WATER LINE PLAN

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	T0336	GIL-0(218)T	12	20	
STRUCTURE NO.	LOCATION: MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG	W04
	TRACS NO. T0336 01C					___ OF ___	



MEWS ROAD

CONSTRUCTION NOTES

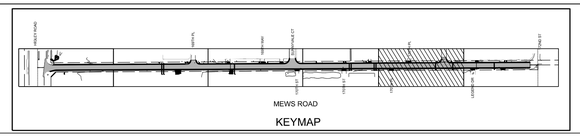
NO.	DESCRIPTION	UNIT	QTY
21	NEW 8" PVC C900 WATERLINE, DR18; PIPE BEDDING TO CONFORM TO TOG STD DTL GIL-302. MIN DEPTH PER DETAIL ON DWG DT02. TO BE PAID UNDER ITEM 8080298	LF	450
22	NEW 1" WATER METER (PURCHASED FROM TOG) WITH WATER METER BOX PER GIL-310	EA	4
24	NEW 1" WATER SERVICE INSTALLATION PER TOG STD DTL GIL-310. END WITH CAP AND GASKET PER ADOT SPEC 809-2.01	EA	4
26	NEW FIRE HYDRANT PER GIL 320-1 & 2	EA	1
27	INSTALL 8" WEDGE GATE VALVE, EPOXY COATED INSIDE PER AWWA C-550	EA	2
28	CURB STOP PER MAG STD DTL 389, TYPE A	EA	2

N

EXST UTIL ELEVATIONS ARE ASSUMED AT 3-FT UNDER EXST GROUND. THESE ELEVATIONS WILL BE UPDATED PER POTHOLING RESULTS

THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A NIGHT TIE-IN FOR ANY NEW WATER LINE THAT WILL AFFECT EXISTING SERVICES SUFFICIENT TO WARRANT SAME IN THE OPINION OF THE TOWN OF GILBERT OFF-SITE INSPECTOR

CONTRACTOR TO VERIFY ELEVATION OF EXISTING SEWER STUB BEFORE PROCEEDING WITH BALANCE OF SEWER TRENCHING



KEYMAP

Registered Professional Engineer (Civil)
CERTIFICATE NO. 70847
MICHAEL J SCHOEN
Date Signed 5/1/2024
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

WATER LINE PLAN

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

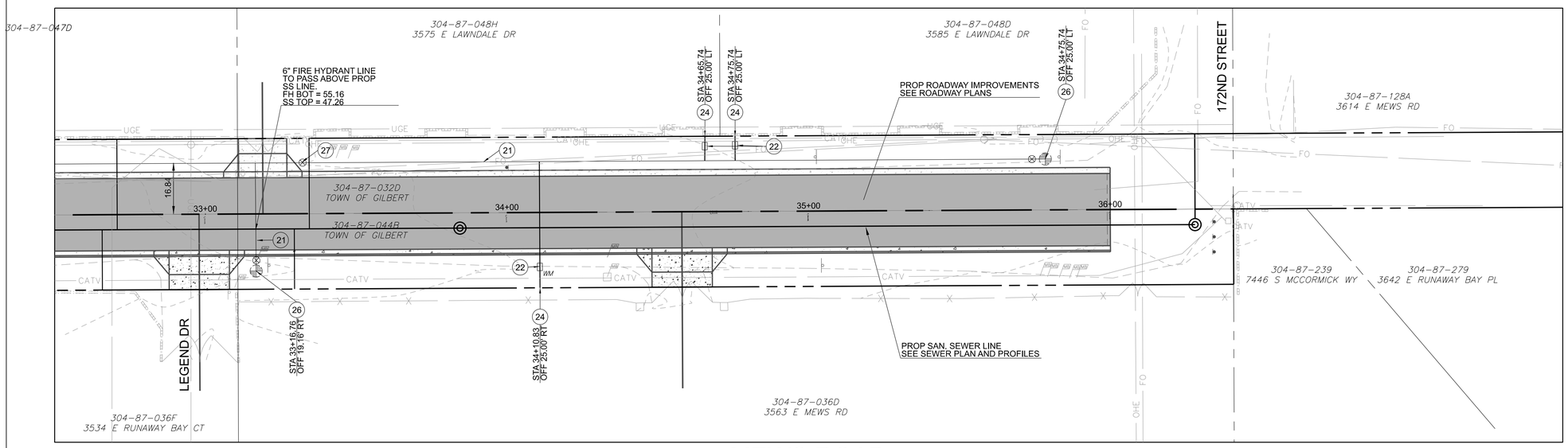
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	T0336	GIL-0(218)T	13	20	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG W05

TRACS NO. T0336 01C

___ OF ___



MEWS ROAD

CONSTRUCTION NOTES

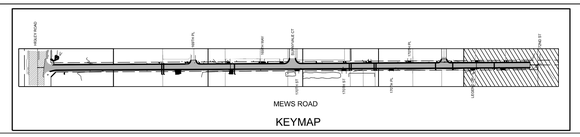
NO.	DESCRIPTION	UNIT	QTY
21	NEW 8" PVC C900 WATERLINE, DR18; PIPE BEDDING TO CONFORM TO TOG STD DTL GIL-302. MIN DEPTH PER DETAIL ON DWG DT02. TO BE PAID UNDER ITEM 8080298	LF	226
22	NEW 1" WATER METER (PURCHASED FROM TOG) WITH WATER METER BOX PER GIL-310	EA	3
24	NEW 1" WATER SERVICE INSTALLATION PER TOG STD DTL GIL-310. END WITH CAP AND GASKET PER ADOT SPEC 809-2.01	EA	3
26	NEW FIRE HYDRANT PER GIL 320-1 & 2	EA	2
27	INSTALL 8" WEDGE GATE VALVE, EPOXY COATED INSIDE PER AWWA C-550	EA	1

N

EXST UTIL ELEVATIONS ARE ASSUMED AT 3-FT UNDER EXST GROUND. THESE ELEVATIONS WILL BE UPDATED PER POTHOLING RESULTS

THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A NIGHT TIE-IN FOR ANY NEW WATER LINE THAT WILL AFFECT EXISTING SERVICES SUFFICIENT TO WARRANT SAME IN THE OPINION OF THE TOWN OF GILBERT OFF-SITE INSPECTOR

CONTRACTOR TO VERIFY ELEVATION OF EXISTING SEWER STUB BEFORE PROCEEDING WITH BALANCE OF SEWER TRENCHING



KEYMAP

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/11/2025 ARIZONA, U.S.A.

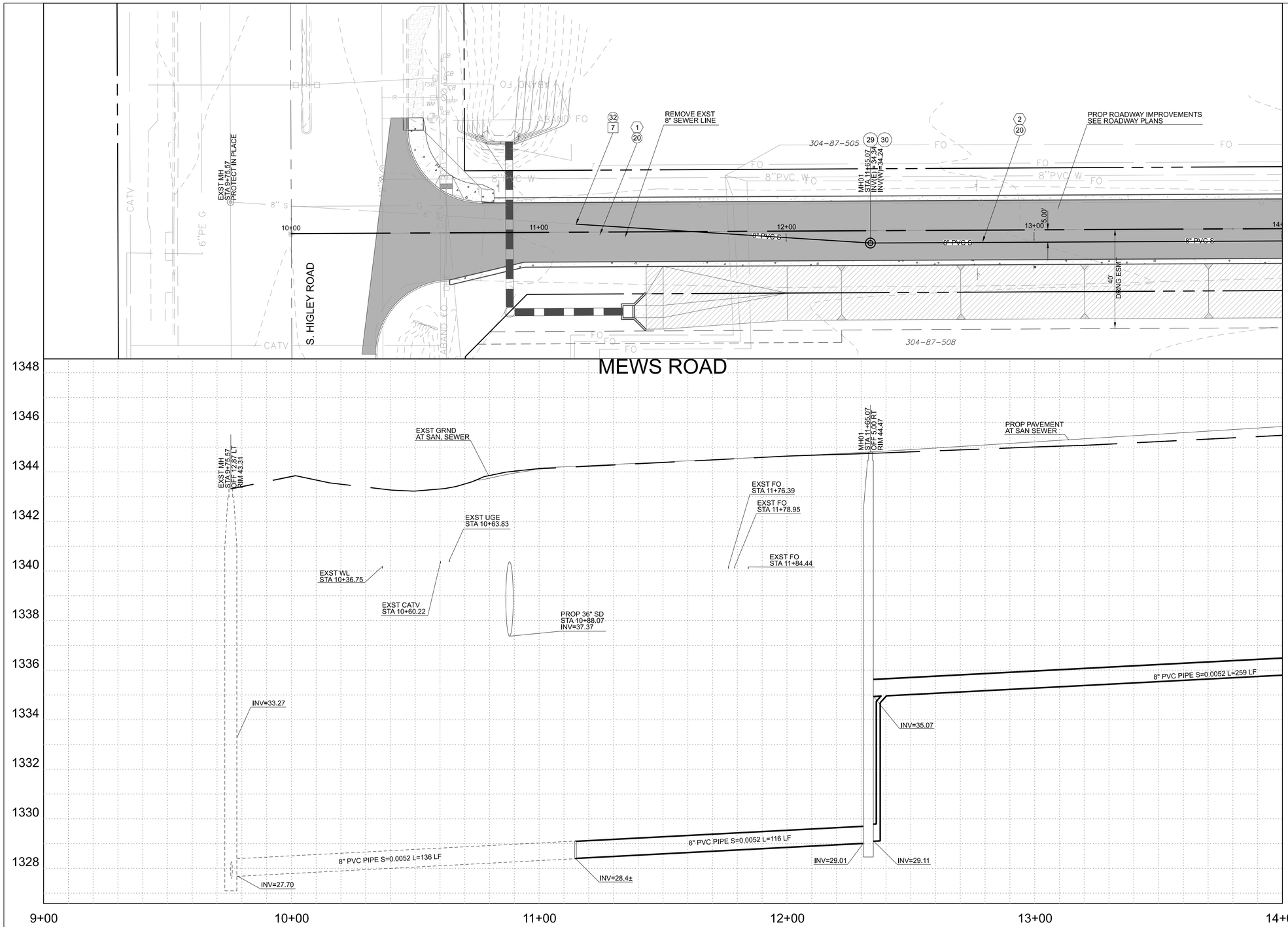
	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

WATER LINE PLAN

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	T0336	GIL-0(218)T	14	20	
STRUCTURE NO.	LOCATION: MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST					DWG	W06
	TRACS NO. T0336 01C					___ OF ___	



REMOVAL & RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
7	CUT AND REMOVE EXST PVC PIPE PLUG. COUPLE NEW 8" PVC PIPE TO EXST PIPE PER ADOT SPEC 809-2.01. TO BE PAID UNDER ITEM 8080291	EA	1

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
20	NEW 8" PVC SDR 26 SEWER LINE PER ADOT SPEC 809-2.01	LF	430
29	NEW 50" ARMOROCK MANHOLE PER DTLS ON DWG DT02 OR APPROVED EQUAL	EA	1
30	CONSTRUCT DROP SEWER CONNECTION PER MAG STD DTL 426, TYPE B	EA	1
32	COUPLE NEW PVC PIPE TO EXST PIPE USING 8" SCH 40 PVC COUPLING WITH SLIP SOCKET ENDS. COUPLING. TO BE PAID UNDER ITEM 8080291	EA	1

N

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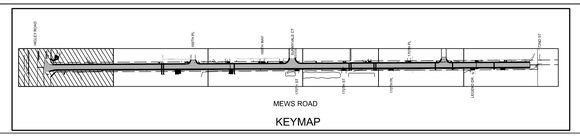
CONTRACTOR TO VERIFY ELEVATION OF EXISTING SEWER STUB BEFORE PROCEEDING WITH BALANCE OF SEWER TRENCHING



KEYMAP

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/16/2024 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

WATER AND SEWER PLAN AND PROFILE

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

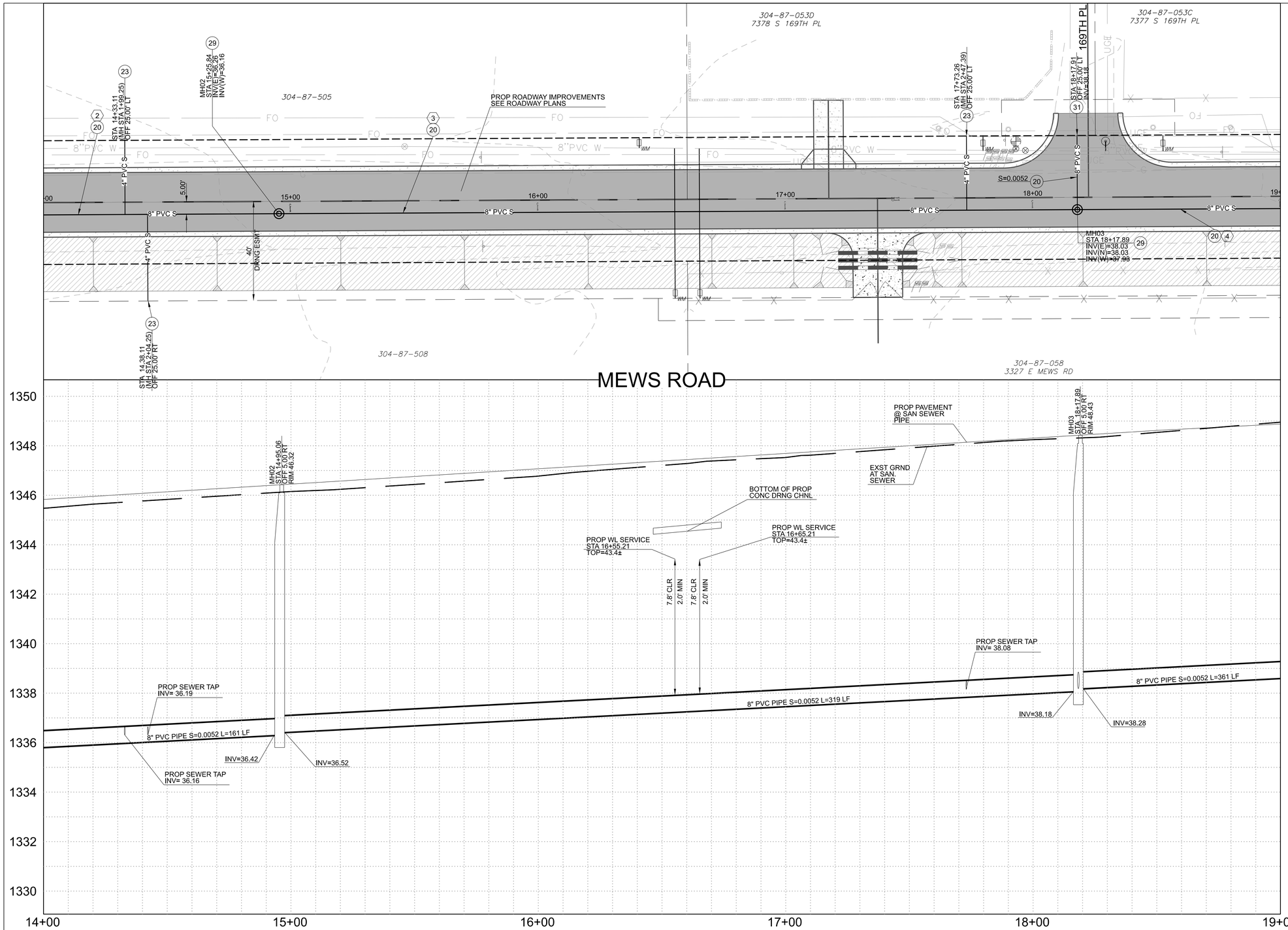
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	T0336	GIL-0(218)T	15	20	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG WW01

TRACS NO. T0336 01C

___ OF ___



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
20	NEW 8" PVC SDR 26 SEWER LINE PER ADOT SPEC 809-2.01	LF	500
23	NEW 4" SAN. SEWER SERVICE INSTALLATION PER TOG STD DTL GIL-410	EA	3
29	NEW 50" ARMOROCK MANHOLE PER DTLS ON DWG WT01 OR APPROVED EQUAL	EA	2
31	SEWER STUB OUT AND PLUG PER ADOT SPEC 809-2.01	EA	1

N

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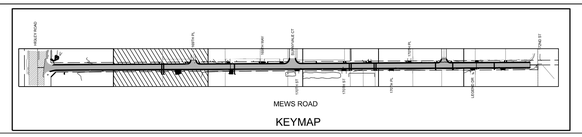
CONTRACTOR TO VERIFY ELEVATION OF EXISTING SEWER STUB BEFORE PROCEEDING WITH BALANCE OF SEWER TRENCHING



KEYMAP

Registered Professional Engineer (Civil)
CERTIFICATE NO. 70847
MICHAEL J SCHOEN
Date Signed 8/16/2024
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

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1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

SEWER PLAN AND PROFILE

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

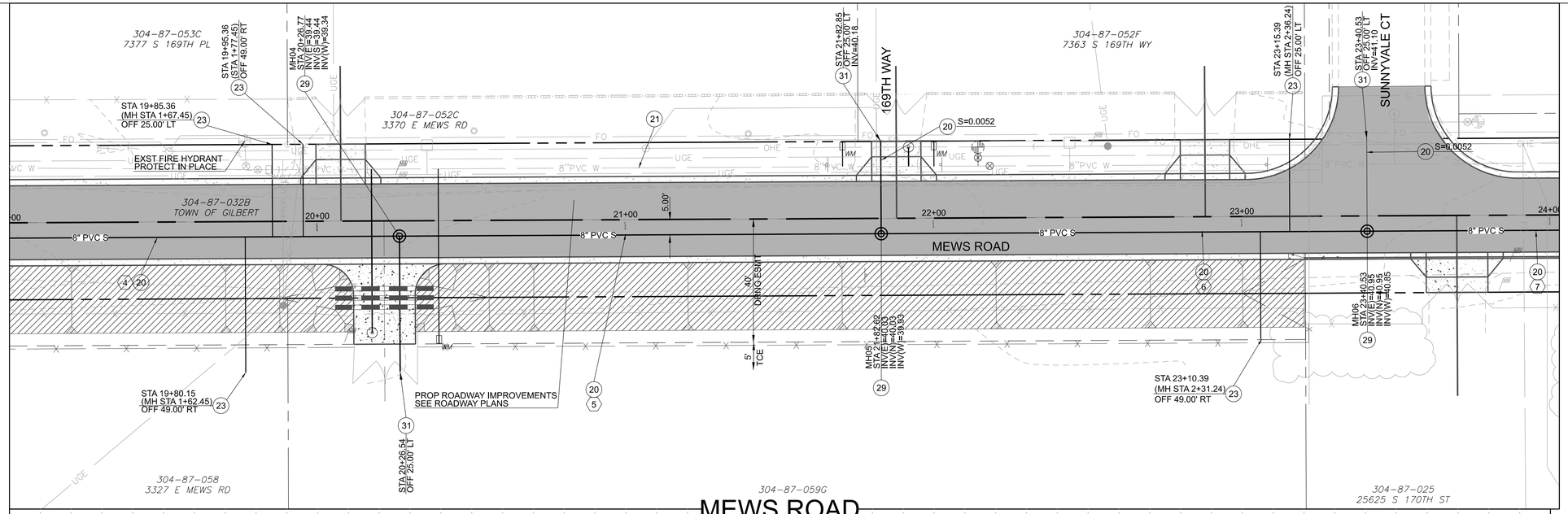
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	48	52	

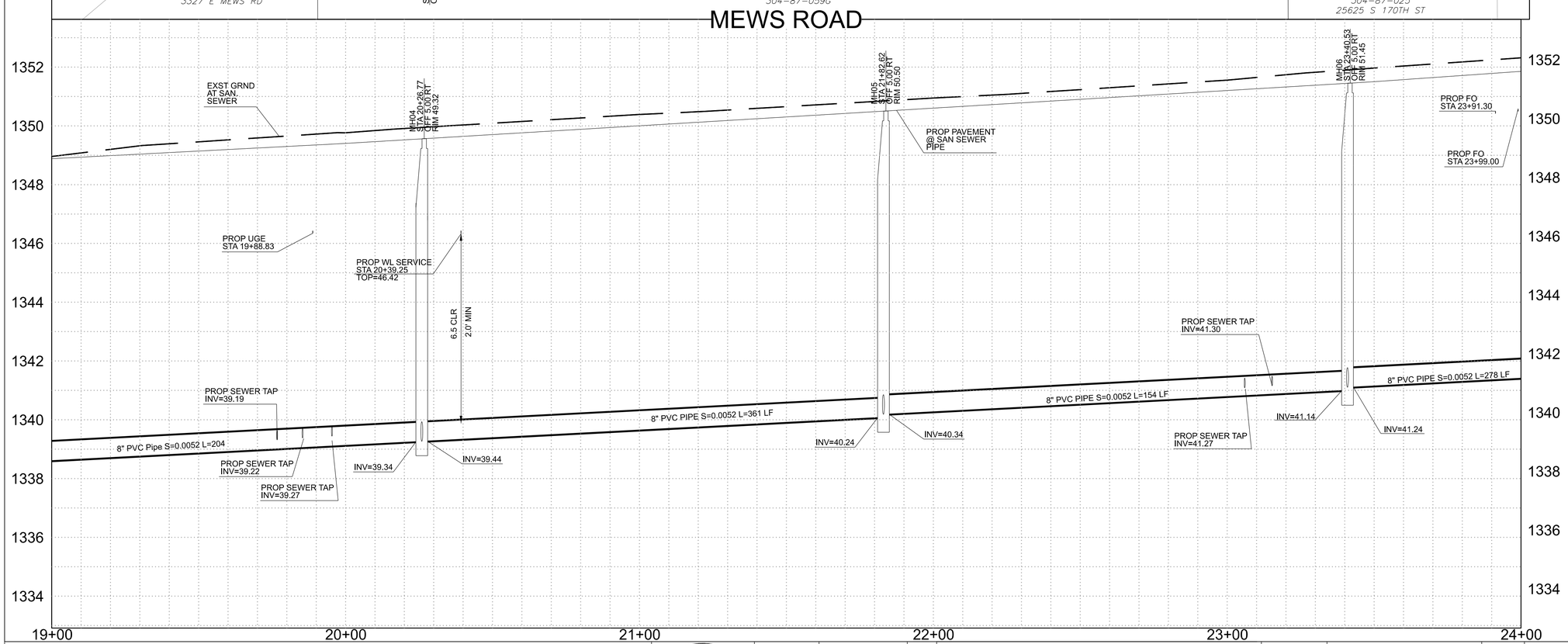
LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG WW02

TRACS NO. T0336 01C

___ OF ___





CONSTRUCTION NOTES

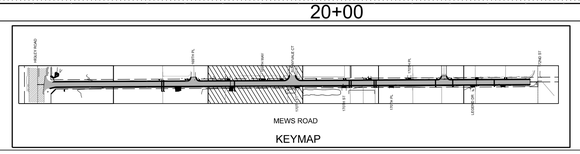
NO.	DESCRIPTION	UNIT	QTY
20	NEW 8" PVC SDR 26 SEWER LINE PER ADOT SPEC 809-2.01	LF	500
23	NEW 4" SAN. SEWER SERVICE INSTALLATION PER TOG STD DTL GIL-410	EA	5
29	NEW 50" ARMOROCK MANHOLE PER DTLS ON DWG WT01 OR APPROVED EQUAL	EA	3
31	SEWER STUB OUT AND PLUG PER ADOT SPEC 809-2.01	EA	3

N

EXST UTIL ELEVATIONS ARE ASSUMED AT 3-FT UNDER EXST GROUND. THESE ELEVATIONS WILL BE UPDATED PER POTHOLING RESULTS

THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A NIGHT TIE-IN FOR ANY NEW WATER LINE THAT WILL AFFECT EXISTING SERVICES SUFFICIENT TO WARRANT SAME IN THE OPINION OF THE TOWN OF GILBERT OFF-SITE INSPECTOR

CONTRACTOR TO VERIFY ELEVATION OF EXISTING SEWER STUB BEFORE PROCEEDING WITH BALANCE OF SEWER TRENCHING



KEYMAP

Registered Professional Engineer (Civil)
CERTIFICATE NO. 70847
MICHAEL J SCHOEN
Date Signed 8/1/2024
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

WATER AND SEWER PLAN AND PROFILE

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

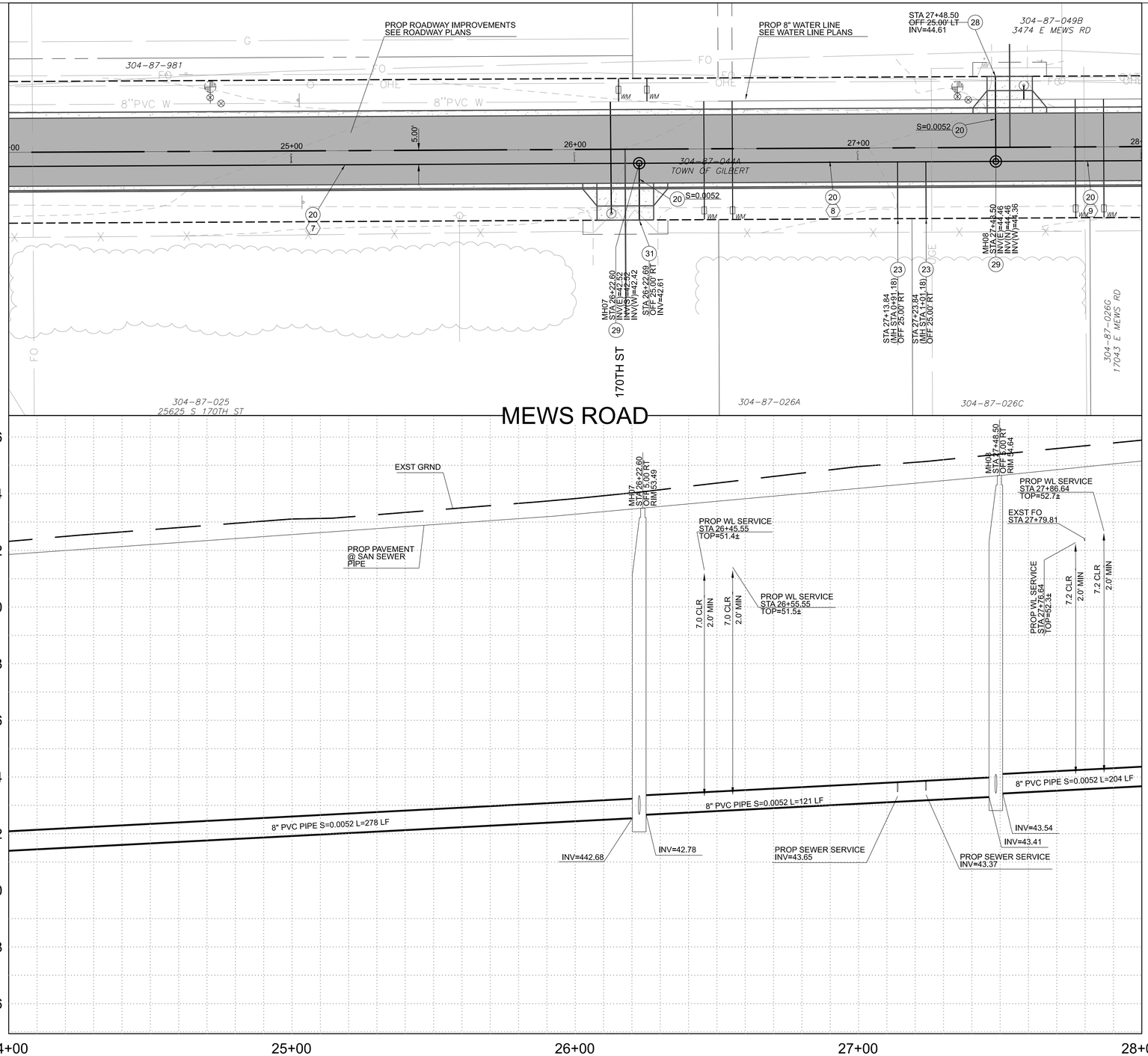
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	49	52	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG WW03

TRACS NO. T0336 01C

___ OF ___



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
20	NEW 8" PVC SDR 26 SEWER LINE PER ADOT SPEC 809-2.01	LF	400
23	NEW 4" SAN. SEWER SERVICE INSTALLATION PER TOG STD DTL GIL-410	EA	2
29	NEW 50" ARMOROCK MANHOLE PER DTLS ON DWG WT01	EA	2
31	PLUG NEW 8" SEWER STUBOUT PER MAG 427	EA	2

N

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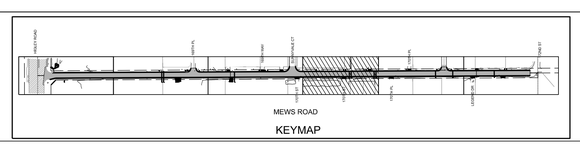
CONTRACTOR TO VERIFY ELEVATION OF EXISTING SEWER STUB BEFORE PROCEEDING WITH BALANCE OF SEWER TRENCHING



KEYMAP

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 5/1/2024 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

SEWER PLAN AND PROFILE

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

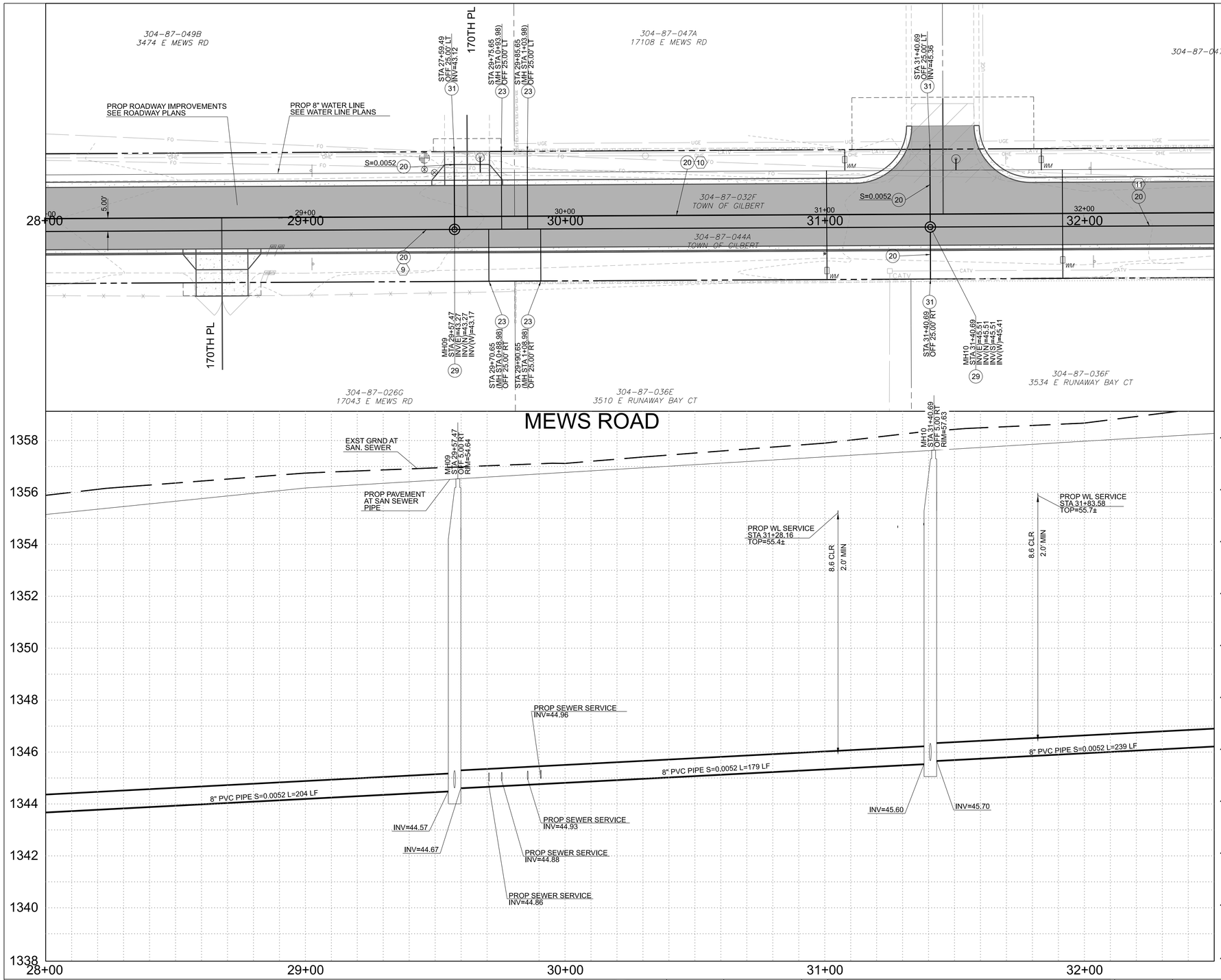
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	50	52	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG WW04

TRACS NO. T0336 01C

___ OF ___



CONSTRUCTION NOTES

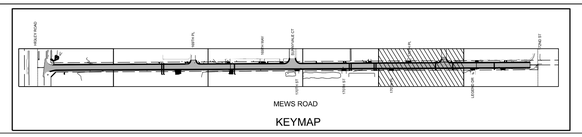
NO.	DESCRIPTION	UNIT	QTY
20	NEW 8" PVC SDR 26 SEWER LINE PER ADOT SPEC 809-2.01	LF	450
23	NEW 4" SAN. SEWER SERVICE INSTALLATION PER TOG STD DTL GIL-410	EA	4
29	NEW 50" ARMOROCK MANHOLE PER DTLS ON DWG WT01	EA	2
31	SEWER STUB OUT AND PLUG PER ADOT SPEC 809-2.01	EA	2

N

EXST UTIL ELEVATIONS ARE ASSUMED AT 3-FT UNDER EXST GROUND. THESE ELEVATIONS WILL BE UPDATED PER POTHOLING RESULTS

THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A NIGHT TIE-IN FOR ANY NEW WATER LINE THAT WILL AFFECT EXISTING SERVICES SUFFICIENT TO WARRANT SAME IN THE OPINION OF THE TOWN OF GILBERT OFF-SITE INSPECTOR

CONTRACTOR TO VERIFY ELEVATION OF EXISTING SEWER STUB BEFORE PROCEEDING WITH BALANCE OF SEWER TRENCHING



KEYMAP

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 5/15/2024 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc.
1230 West Washington Street, Suite 405
Tempe, AZ 85281

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

SEWER PLAN AND PROFILE

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

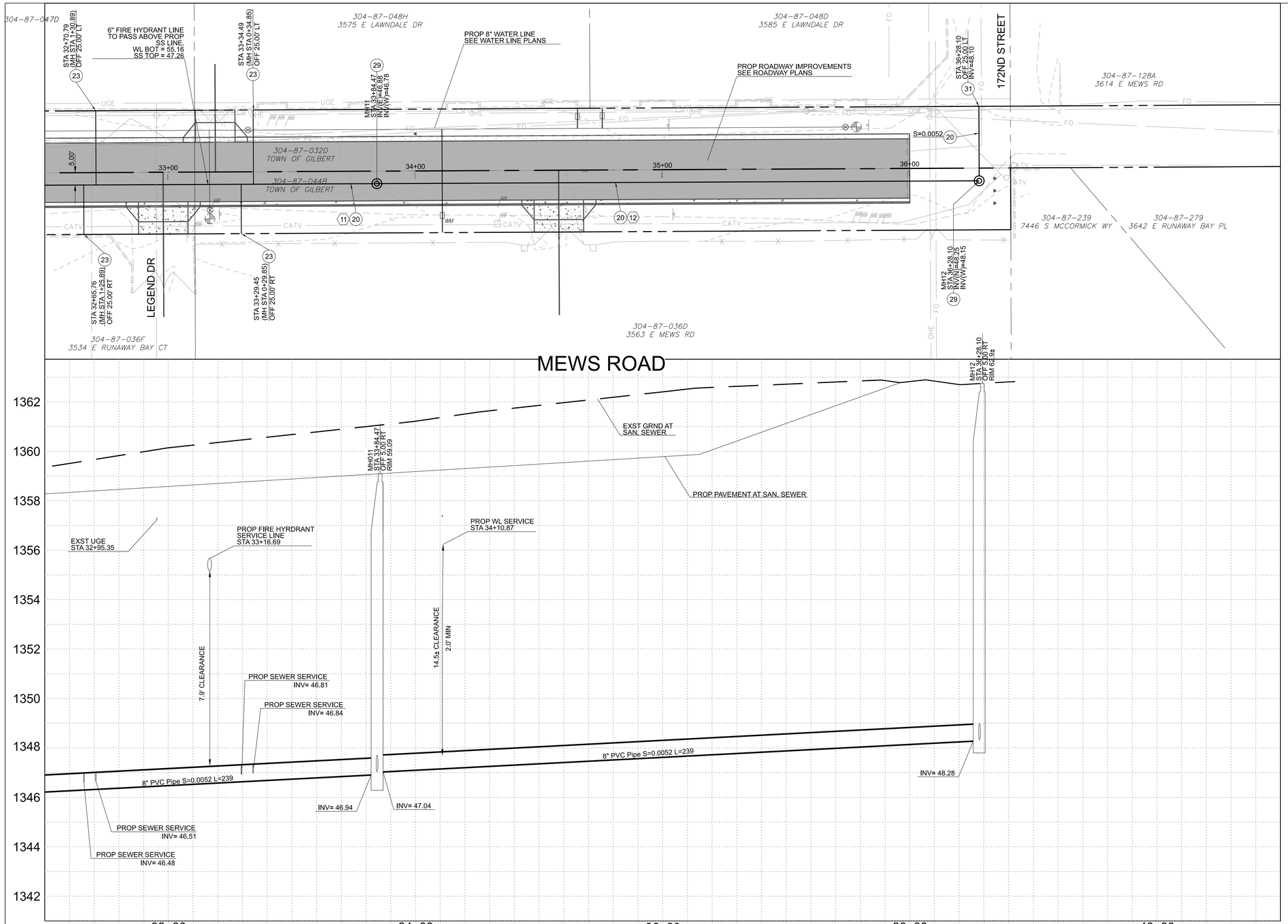
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	51	52	

LOCATION MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG WW05

TRACS NO. T0336 01C

___ OF ___



CONSTRUCTION NOTES

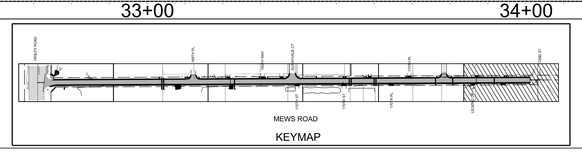
NO.	DESCRIPTION	UNIT	QTY
20	NEW 8" PVC SDR 26 SEWER LINE PER ADOT SPEC 809-2.01	LF	350
23	NEW 4" SAN. SEWER SERVICE INSTALLATION PER TOG STD DTL GIL-410	EA	4
29	NEW 50" ARMOROCK MANHOLE PER DTLS ON DWG WT01	EA	2
31	SEWER STUB OUT AND PLUG PER ADOT SPEC 809-2.01	EA	1

N

EXST UTIL ELEVATIONS ARE ASSUMED AT 3-FT UNDER EXST GROUND. THESE ELEVATIONS WILL BE UPDATED PER POTHOLING RESULTS

THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A NIGHT TIE-IN FOR ANY NEW WATER LINE THAT WILL AFFECT EXISTING SERVICES SUFFICIENT TO WARRANT SAME IN THE OPINION OF THE TOWN OF GILBERT OFF-SITE INSPECTOR

CONTRACTOR TO VERIFY ELEVATION OF EXISTING SEWER STUB BEFORE PROCEEDING WITH BALANCE OF SEWER TRENCHING



KEYMAP

Registered Professional Engineer (Civil) CERTIFICATE NO. 70847 MICHAEL J SCHOEN Date Signed 8/11/23 ARIZONA U.S.A.

	NAME	DATE
DESIGN	M. SCHOEN	01/24
DRAWN	P. ESCOBAR	01/24
CHECKED	D. YANO	01/24

WSP USA Inc. 1230 West Washington Street, Suite 405 Tempe, AZ 85281

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

SEWER PLAN AND PROFILE

ROUTE | MILEPOST | STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 MA GIL	GIL-0(218)T	52	52	

LOCATION: MEWS ROAD - HIGLEY ROAD TO ½ MILE EAST

DWG WW06

TRACS NO. T0336 01C

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