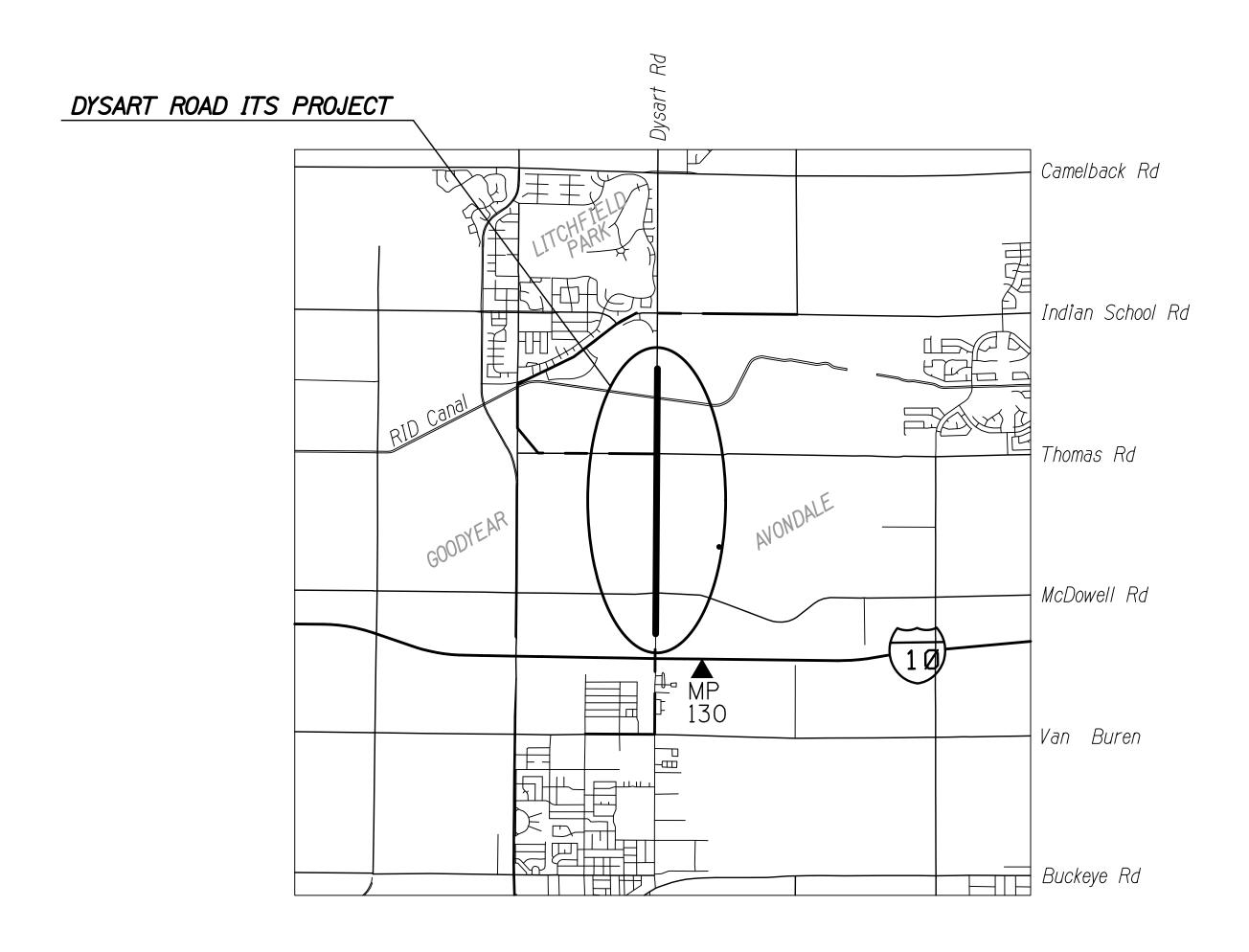
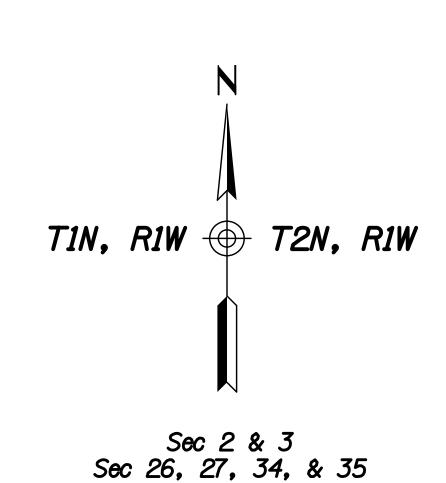


STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION



PROJECT PLANS URBANIZED AREA CITY OF AVONDALE





DYSART ROAD RANCHO SANTA FE BOULEVARD TO INDIAN SCHOOL ROAD

PROJECT NO. 0000 MA AVN SZ079 01C FEDERAL AID NO. CM-AVN-0(216)T

Construction Company	
Completion Date	
Red-Lines by:	
Construction Administrator Name & Company	
Completion Date	
Record Drawings by:	

Record Drawings Designer Name & Company

Completion Date

Constructed by:

ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DALLAS HAMMIT. P.E., STATE ENGINEER

REC. DWGS.	REC. DWG. DATE	0E
DATA		

ADOT STANDARD DRAWINGS

TRAFFIC SIGNAL AND LIGHTING STANDARDS
(SHEET 1 OF 2)
EFFECTIVE MAY 2015

REVISION	STANDARD NUMBER	SUBJECT: TRAFFIC SIGNALS AND LIGHTING DETAILS	REVISION	STANDARD NUMBER	SUBJECT: TRAFFIC SIGNALS AND LIGHTING DETAILS
DATE	<u>NUMBER</u>		<u>DATE</u>	NUMBER	
05 /15	T. S. 0	ABBREVIATIONS, SYMBOLS AND DEFINITIONS	10/17	T. S. 4	POLES AND POSTS
05/15 01/12	0-1 0-2 SHT 1	STANDARD ABBREVIATIONS PLAN SYMBOLS	10/13 10/13	4-1 4-2	TYPE "A" POLE TYPE "E" POLE
01/12	0-2 SHT 2	PLAN SYMBOLS	10/13	4-3	TYPE "F" POLE
01/12 03/10	0-2 SHT 3 0-3 SHT 1	PLAN SYMBOLS STANDARD DEFINITIONS	10/13 10/13	4-4 4-5	TYPE "G" POLE ALUMINUM TYPE "G" POLE
03/10	0-3 SHT 2	STANDARD DEFINITIONS	10/13	4-6	ALUMINUM TYPE "H" POLE
03/10	0-4	REFERENCE DOCUMENTS AND GENERAL REQUIREMENTS	10/13 10/13	4-7 4-8	ALUMINUM TYPE "I" POLE TYPE "J" POLE
	T. S. 1	PULL BOXES	10/13	4-9	TYPE "K" POLE
09/11	1-1 SHT 1	LIGHT DUTY - LIGHT WEIGHT NO. 5 AND NO. 7 PULL BOX	10/13 10/13	4-10 4-11	TYPE "Q" POLE TYPE "R" POLE
09/11 03/15	1-1 SHT 2 1-2	LIGHT DUTY - LIGHT WEIGHT NO. 5 AND NO. 7 SLOPE WALL BODY PULL BOX DETAILS HEAVY DUTY NO. 5 AND NO. 7 STRAIGHT BODY WALL PULL BOX DETAILS	10/13	4-12	TYPE "S" POLE
09/11	1-3	REPLACEMENT LID SIZING FOR EXISTING NO. 5 AND NO. 7 PULL BOXES	10/13 10/13	4-13 4-14 SHT 1	ALUMINUM TYPE "S" POLE TYPE "T" POLE
09/11 09/11	1-4 SHT 1 1-4 SHT 2	TYPICAL PULL BOX INSTALLATION AND WIRING DETAILS TYPICAL PULL BOX INSTALLATION AND WIRING DETAILS	10/13	4-14 SHT 2	TYPE "S" AND "T" STEEL TWIN LUMINAIRE MOUNTING BRACKET AND EXTENSIONS
09/11	1-4 SHT 3	TYPICAL PULL BOX INSTALLATION DETAILS	10/13 10/13	4-15 4-16	ALUMINUM TYPE "T" POLE TYPE "U" POLE ELLIPTICAL BASE DETAILS
09/11 09/11	1-5 SHT 1 1-5 SHT 2	ELECTRICAL CONDUIT COVER AND TRENCH REQUIREMENTS CONDUIT EXPANSION COUPLINGS	10/13	4-17 SHT 1	TYPE "U" POLE ELLIPTICAL BASE DETAILS TYPE "U" POLE SQUARE BASE
09/11	1-6	CONDUCTOR REQUIREMENTS	10/13	4-17 SHT 2	TYPE "U" POLE ROUND POLE / SQUARE BASE
03/10 09/11	1-7 1-8 SHT 1	TRAFFIC SIGNAL IMSA CABLE COLOR CODES FRONT OF BARRIER JUNCTION BOX	03/10 10/13	4-17 SHT 3 4-17 SHT 4	TYPE "U" POLE ROUND POLE / SQUARE BASE TYPE "U" POLE ROUND POLE / SQUARE BASE
09/11	1-8 SHT 2	BACK OF BARRIER JUNCTION BOX	10/13	4-17 SHT 5	TYPE "U" POLE ROUND POLE / SQUARE BASE
09/11 09/11	1-9 1-10	TOP OF BARRIER JUNCTION BOX DETAILS TOP OF BARRIER JUNCTION BOX DETAILS	10/13 10/13	4-17 SHT 6 4-18	TYPE "U" POLE ROUND POLE / SQUARE BASE TYPE "V" POLE AND 60' OR 65' MAST ARM
10/13	1-11 SHT 1	HEAVY DUTY LIGHTING NO. 4 AND NO. 6 PULL BOX	10/13	4-19	TYPE "W" POLE AND 60' OR 65' MAST ARM
10/13	1-11 SHT 2	HEAVY DUTY LIGHTING NO. 4 AND NO. 6 PULL BOX	03/10 03/10	4-20 4-21	POLE HAND HOLE DETAIL EQUIPMENT MOUNTING HEIGHT DETAILS
03/15 03/15	1-11 SHT 3 1-12 SHT 1	HEAVY DUTY LIGHTING NO. 4 AND NO. 6 PULL BOX LID PRECAST HEAVY DUTY LIGHTING NO. 4B AND NO. 6B PULL BOX	03/15	4-22	PEDESTRIAN PUSH BUTTON POST "TYPE PB POLE"
03/15	1-12 SHT 2	PRECAST HEAVY DUTY LIGHTING NO. 4B AND NO. 6B PULL BOX	10/13 03/10	4-23 4-26	POLE FOUNDATION ANCHOR BOLTS STEEL MAST ARM DETAILS LUMINAIRE AND SIGNAL ARMS TO 20'
	T.S. 2	FOUNDATIONS	03/10	4-27	ALUMINUM TRUSS ARM DETAILS TYPE G, H, AND I POLES
03/10	2-1	FOUNDATION FOR TYPE II LOAD CENTER CABINET	03/10 03/10	4-28 4-29	SIGNAL MAST ARM CONNECTION DETAIL TYPE J AND Q POLES SIGNAL MAST ARM CONNECTION DETAIL TYPE K AND R POLES
03/10 03/10	2-2	FOUNDATION FOR TYPE IV LOAD CENTER CABINET FOUNDATION FOR TYPE III CONTROL CABINET	03/10	4-30	MAST ARM CONNECTION DETAIL TYPE V AND W POLES
03/10	2-2 2-3 2-4	FOUNDATION FOR TIPE III CONTROL CABINETS	03/10 12/12	4-31 4-32	SIGNAL MAST ARM TENON DETAIL TYPICAL HIGHWAY LIGHTING OFFSETS IN CUT AND FILL SECTIONS
03/10	2-5 2-6	FOUNDATION FOR TYPE 340 CONTROL CABINET	12/12	7 52	THE TORE HERITAGE ETONITHO OF SETS IN COT AND THEE SECTIONS
03/10 03/15	2-6 2-7	METER PEDESTAL CABINET FOUNDATION AND BASE TRAFFIC SIGNAL UPS CABINET FOUNDATION DETAIL	67 // F	T. S. 5	POLE BASES - SPECIAL
			03/15 12/12	5-0 5-1	TYPE 2 AND 3 CAST ALUMINUM BREAK-AWAY BASES TYPE 2 CAST ALUMINUM BREAK-AWAY BASE
12/12	T.S. 3	CABINETS NOTES FOR TYPE II AND IV LOAD CENTER CABINETS	12/12	5-2	TYPE 3 CAST ALUMINUM BREAK-AWAY BASE
03/10	3-0 3-1 3-2	TYPE II LOAD CENTER CABINET	12/12	5-3	INSTALLATION DETAILS FOR POLE FOUNDATIONS WITH TYPE 2 AND 3 BREAK-AWAY BASES
03/10 03/10	3-2 3-3	TYPE IV LOAD CENTER CABINET TYPE II OR IV LOAD CENTER CABINET WIRING DETAILS 240/480 3W W/DISCONNECT		T.S. 6	HIGHWAY TRAFFIC DATA DETECTORS
03/10	3-4 SHT 1	PHOTO ELECTRIC CELL MOUNTING DETAILS	03/10	6-1	TYPE C VEHICLE DETECTOR LOOPS FOR TRAFFIC COUNTERS
03/10	3-4 SHT 2 3-5 SHT 1	PHOTO ELECTRIC CELL MOUNTING DETAILS TYPE I AND II METER PEDESTAL CABINET	03/10 03/10	6-2 SHT 1 6-2 SHT 2	TYPE SA AND SB SPEED/VEHICLE CLASSIFICATION SYSTEMS TYPE SA SPEED/VEHICLE CLASSIFICATION SYSTEMS
03/10 12/12	3-5 SHT 2	METER PEDESTAL CABINET	03/10	6-2 SHT 3	TYPE SB SPEED/VEHICLE CLASSIFICATION SYSTEMS
03/10	3-6 3-7	TYPE III CONTROL CABINET	12/12 12/12	6-3 6-4 SHT 1	PIEZOELECTRIC WEIGHT SENSOR AND LOOP LANE LAYOUT DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS
03/10 03/10	3-7 3-8 SHT 1	POLE MOUNTED TYPE III CONTROL CABINET POLE MOUNT DETAILS FOR TYPE III CONTROL CABINET	12/12	6-4 SHT 2	DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS
03/10	3-8 SHT 2	POLE MOUNT DETAILS FOR TYPE III CONTROL CABINET	03/15 12/12	6-4 SHT 3 6-4 SHT 4	DETAIL A PIEZOELECTRIC SENSOR DETAILS DETAIL B DETECTOR LOOP DETAILS
03/10 03/10	3-9 SHT 1 3-9 SHT 2	TYPE IV AND V CONTROL CABINET NOTES TYPE IV CONTROL CABINET	12/12	6-4 SHT 5	DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS
03/10	3-9 SHT 3	TYPE V CONTROL CABINET	03/10 03/10	6-5 6-6	MICROLOOPS FOR SPEED/VEHICLE CLASSIFICATION QUARTZ PIEZOELECTRIC WEIGHT SENSOR AND LOOP LANE LAYOUT
03/10 03/10	3-10 3-11	CABINET EXTENSION OR ELEVATOR BASE CONTROL CABINET MOUNTED SERVICE ENCLOSURE	03/10	6-7	TRAFFIC DATA COLLECTION CABINET INSTALLATION DETAILS
03/10	3-12 SHT 1	120/240 OR 240/480 VOLT, SINGLE PHASE UTILITY PULL SECTION AND SERVICE DISCONNECT DETAILS	03/10	6-8	TYPE MPD CABINET POLE, BASE AND FOUNDATION INSTALLATION DETAILS
03/10 03/10	3-12 SHT 2 3-13 SHT 1	120/240 OR 240/480 VOLT, SINGLE PHASE UTILITY PULL SECTION AND SERVICE DISCONNECT DETAILS TRAFFIC SIGNALS AND LIGHTING MODEL 345 CABINET DETAILS			
03/10	3-13 SHT 2	TRAFFIC SIGNALS AND LIGHTING MODEL 345 CABINET DETAILS			
03/10	3-13 SHT 3	TRAFFIC SIGNALS AND LIGHTING MODEL 345 CABINET CAGE DETAILS			

ADOT STANDARD DRAWINGS							
REVI	ISION DATES and STANDARD NO).'s REVIEW					
	NAME	,	DATE				
TRAFFIC SIGNAL & LIGHTING STANDARDS	R. Crane Dy	dan	July 27, 2016				
PROJECT NO. OOOO MA AVN S	Z079 01C	1C-1	OF				
RECORD DRAWING FEDERAL AID NO. CM-AVN-O	(216)T	TE	OF				

ADOT STANDARD DRAWINGS

TRAFFIC SIGNAL AND LIGHTING STANDARDS
(SHEET 2 OF 2)
EFFECTIVE MAY 2015

		EFFECTIVE	E MAY ZUIS		
REVISION DATE	STANDARD NUMBER	SUBJECT: TRAFFIC SIGNALS AND LIGHTING DETAILS	REVISION DATE	STANDARD NUMBER	SUBJECT: TRAFFIC SIGNALS AND LIGHTING DETAILS
	T.S. 7	TRAFFIC SIGNAL DETECTORS		T C 15	CDAN WIDE CICNALS AND LIGHTING
03/10	7-1 SHT 1	LOOP DETECTOR LOCATION SAWCUT PATTERNS AND INSTALLATION DETAILS	01 /10	T. S. 15	SPAN WIRE SIGNALS AND LIGHTING
03/10	7-1 SHT 2	SAW CUT AND CORING DETAILS	01/12 01/12	15-0 SHT 1	GENERAL NOTES
03/15	7-1 SHT 3	SAW CUT AND CORING DETAILS	01/12	15-0 SHT 2 15-0 SHT 3	GENERAL NOTES GENERAL NOTES
03/10	7-1 SHT 4	TYPICAL DETECTOR LOOP LEAD-IN ROAD TO PULL BOX DETAIL	01/12	15-1 SHT 1	STEEL POLE TYPICAL DETAILS
03/10	7-1 SHT 5	LOOP DETECTOR LOCATION AND INSTALLATION DETAILS	01/12	15-1 SHT 2	STEEL POLE FOUNDATION DETAILS
03/10	7-2	PRE-FORMED LOOP DETECTORS FOR RAMP METERING AND COUNTING	01/12	15-1 SHT 3	STEEL POLE ATTACHMENT DETAILS
03/10	7-3	PRE-FORMED LOOP DETECTORS IN BRIDGE DECK	01/12	15-1 SHT 4	WOOD POLE TYPICAL DETAILS
03/10 03/10	7-4 7-5	PRE-FORMED LOOP DETECTORS IN PCCP TYPICAL PRE-FORMED LOOP DETECTOR STUB-OUT DETAIL	01/12	15-1 SHT 5	WOOD POLE TYPICAL DETAILS
03/10	7-5	TIPICAL PRE-FORMED LOOP DETECTOR STUB-OUT DETAIL	01/12	15-1 SHT 6	TYPICAL DETAILS
	T.S. 8	SIGNAL ASSEMBLIES	01/12	15-2	HANGER AND BALANCE ADJUSTER TYPICAL DE
01/12			01/12 01/12	15-3 SHT 1 15-3 SHT 2	SIGNAL ASSEMBLY DETAILS
01/12 01/12	8-0 8-1	TRAFFIC SIGNAL VEHICLE FACE ASSEMBLY REQUIREMENTS AND DETAILS VEHICLE TRAFFIC SIGNAL FACE ASSEMBLY	01/12	15-3 SHT 3	CONDUCTOR ENTRANCE HEADS TYPE A, B AND ALUMINUM PIPE EXTENSION AND TYPICAL DE
01/12	8-2	VEHICLE TRAFFIC SIGNAL FACE ASSEMBLY	01/12	15-4 SHT 1	ADJUSTABLE SIGN HANGER TYPICAL DETAILS
01/12	8-3	VEHICLE TRAFFIC SIGNAL FACE ASSEMBLY	01/12	15-4 SHT 2	ADJUSTABLE SIGN HANGER TYPICAL DETAILS
10/13	8-4 SHT 1	12-INCH VEHICLE TRAFFIC SIGNAL HOUSING/SECTION	01/12	15-4 SHT 3	ADJUSTABLE SIGN HANGER TYPICAL DETAILS
01/12	8-4 SHT 2	12-INCH VEHICLE TRAFFIC SIGNAL HOUSING/SECTION NOTES	01/12	15-5	ADJUSTABLE HANGER TOP AND EXTENSION DE
01/12	8-4 SHT 3	VEHICLE TRAFFIC SIGNAL HOUSING/SECTION DETAILS	01/12	15-6	SIGNAL TETHER CLAMP TYPICAL DETAILS
03/10	8-4 SHT 4	VISORS FOR 8-INCH AND 12-INCH VEHICLE TRAFFIC SIGNAL FACE ASSEMBLIES	01/12	15-7	POLE BAND TYPICAL DETAILS
01/12	8-5 8-6	FLASHING BEACON SIGNAL FACE ASSEMBLY	01/12	15-8	WEATHERHEAD TYPICAL DETAILS
01/12 01/12	8-7 SHT 1	LED LAMP FOR PROGRAMMED VISIBILITY SIGNAL PEDESTRIAN SIGNAL ASSEMBLY REQUIREMENTS AND DETAILS			
01/12	8-7 SHT 2	PEDESTRIAN SIGNAL ASSEMBLY HOUSING			
01/12	8-7 SHT 3	PEDESTRIAN SIGNAL ASSEMBLY VISOR			
	T.S. 9	MOUNTING ASSEMBLIES - SIGNAL			
03/10	9-0 SHT 1	MOUNTING ASSEMBLY GENERAL REQUIREMENTS			
03/10	9-0 SHT 2	MOUNTING ASSEMBLY GENERAL REQUIREMENTS			
03/10	9-1	TYPE I AND II MOUNTING ASSEMBLIES			
03/10	9-2	TYPE III AND IV MOUNTING ASSEMBLIES			
10/13 03/10	9-3 9-4	TYPE V MOUNTING ASSEMBLY TYPE VI MOUNTING ASSEMBLY			
03/10	9-5	TYPE VII MOUNTING ASSEMBLY			
03/10	9-6	TYPE VIII MOUNTING ASSEMBLY			
03/10	9-7	TYPE IX MOUNTING ASSEMBLY			
03/10	9-8	TYPE X MOUNTING ASSEMBLY			
03/10	9-9	TYPE XI MOUNTING ASSEMBLY			
	T.S. 10	MOUNTING CASTINGS - SIGNAL			
03/10	10-1	MISCELLANEOUS SIGNAL MOUNTING PARTS			
03/10	10-2	MAST ARM SIGNAL MOUNTING PLUMBIZER			
03/10	10-3	SIGNAL MOUNTING POLE PLATE DETAILS			
03/10	10-4	TERMINAL COMPARTMENT, SIDE MOUNTED AND POLE TOP MOUNTED			
	T.S. 11	PEDESTRIAN DETAILS			
07 /1F	1 1 1	TYPE I DEDECTRIAN DUCH DUTTON HOUGING ACCEMBLY			

TYPE I PEDESTRIAN PUSH BUTTON HOUSING ASSEMBLY

ADVANCE WARNING FLASHER POLE SIGN MOUNTING DETAILS

SIGN LIGHTING DETAIL FOR TUBULAR SIGN STRUCTURES

PLACEMENT OF LIGHTING FIXTURES FOR OVERHEAD SIGNS

CAN STYLE PEDESTRIAN PUSH BUTTON

ADVANCE WARNING FLASHER POLE DETAIL

ADVANCE WARNING FLASHER POLE DETAIL

FUSE PANEL DETAILS FOR SIGN LIGHTING

HIGH PRESSURE SODIUM (HPS) LAMPS

HIGH PRESSURE SODIUM (HPS) LAMPS

HIGH PRESSURE SODIUM (HPS) LAMPS

PEDESTRIAN BRIDGE LIGHTING DETAILS

ILLUMINATION - SIGNS

ILLUMINATION - SPECIAL

FLASHERS

ADOT STANDARD DRAWINGS						
REVI	SION DATES AND STANDARD NO.'S	REVIEW				
, NAME						
TRAFFIC SIGNAL AND LIGHTING STANDARDS	R. Crave Dilán	-	July 27, 2016			
PROJECT NO. OOOO MA AVN S	Z079 01C	1C-2	OF			
RECORD DRAWING FEDERAL AID NO. DATA CM-AVN-O(REC. DWG. DATE		OF			

03/15

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03/10

11-1

11-2

T. S. 12

T.S. 13

13-1

13-2

13-3

T.S. 14

14-2

12-1 SHT 1

12-1 SHT 2

12-1 SHT 3

14-1 SHT 1

14-1 SHT 2

14-1 SHT 3

ADOT STANDARD DRAWINGS

ITS SYSTEM STANDARDS EFFECTIVE AUGUST 2013

REVISION	STANDARD	SUBJECT: ITS DETAILS
Feb-13	FM-0.01	SYMBOLS AND ABBREVIATIONS
Feb-13 Feb-13 Feb-13 Feb-13 Feb-13 Feb-13 Feb-13	FM-1.01 FM-1.02 FM-1.03 FM-1.04 FM-1.05 FM-1.06 FM-1.07 FM-1.08	TRENCH DETAILS, FMS TRUNKLINE TRENCH UNDER PAVEMENT, FMS TRUNKLINE BURIED CONDUIT AROUND OBSTRUCTION, DIRECTIONAL DRILLING CONDUIT REQUIREMENTS FOR DMS, RMC TO PVC CONDUIT CONNECTION, THROUGH WALL CONDUIT CONDUIT MOUNTING DETAILS CONDUIT EXPANSION, COUPLING AND JUNCTION BOX, INSTALLATION PLAN FMS TRUNK LINE IN BOX GIRDER BRIDGE FMS TRUNKLINE IN I-BEAM OR I-GIRDER BRIDGE
Feb-13 Feb-13 Feb-13 Feb-13 Feb-13 Feb-13 Feb-13	FM-2.01 FM-2.02 FM-2.03 FM-2.04 FM-2.05 FM-2.06 FM-2.07 FM-2.08	PULL BOX ADJACENT TO FMS PULL BOX PULL BOX NO. 9 CABINET CONDUIT INTERFACE PLANS PULL BOX NO. 9 DETAILS NO. 9 PULL BOX CONDUIT ROUTING AND CABLE RACKING DETAILS No. 9 PULL BOX TORSION ASSIST COVER PULL BOX NO. 7 TYPICAL INSTALLATION BURIED PULL BOX NO. 7 TYPICAL INSTALLATION SPLIT NO. 9 PULL BOX
Feb-13 Feb-13	FM-3.01 FM-3.02 FM-3.03 FM-3.04 FM-3.05 FM-3.06 FM-3.09 FM-3.10 FM-3.12 FM-3.13 FM-3.15 FM-3.15 FM-3.15 FM-3.20 FM-3.20 FM-3.20 FM-3.21 FM-3.21 FM-3.22 FM-3.23 FM-3.23 FM-3.23 FM-3.24 FM-3.25 FM-3.25 FM-3.26 FM-3.27 FM-3.29	RAMP METER CABINET DETAILS (SHEET 1 of 2) RAMP METER CABINET DETAILS (SHEET 2 of 2) RAMP METER CABINET SPECIAL DETAILS RAMP METER CABINET ACCESSORIES RAMP METER FIELD PANEL CONNECTIONS RAMP METER FIELD PANEL CONNECTIONS RAMP METER SIGNAL POWER INTERRUPT RELAY AND PIN ASSIGNMENTS POWER DISTRIBUTION ASSEMBLY VA (PDA4) SCHEMATIC DIAGRAM RAMP METER CI HARNESS CONNECTIONS CCTV CABINET DETAILS (SHEET 1 of 2) CCTV CABINET DETAILS (SHEET 2 of 2) CCTV CABINET DETAILS (SHEET 2 of 2) CABINET NUMBER DECAL DETAIL TRANSFORMER, 3kVA & 7.5kVA, DRY TYPE DETAILS AND WIRING DIAGRAMS TRANSFORMER, 10kVA & 25kVA, DRY TYPE DETAILS AND WIRING DIAGRAMS CLEAR ZONES, UNPROTECTED EQUIPMENT TYPE IV LOAD CENTER TYPE IV LOAD CENTER TYPE IV LOAD CENTER RAMP METER CABINET FOUNDATION AND CABINET DETAIL TYPE IV ADDIFIED LOAD CENTER RAMP METER CABINET FOUNDATION W/O TRANSFORMER RAMP METER CABINET FOUNDATION DETAILS SKYLINE DMS & TRANSFORMER CABINET FOUNDATION DETAILS DOOLEY SUMP DETAILS TRANSFORMER CABINET FOUNDATION DETAILS DOOLEY SUMP DETAILS TRANSFORMER CABINET FOUNDATION DETAILS DOOLEY SUMP DETAILS TRANSFORMER CABINET FOUNDATION DETAILS DAKTRONICS DMS & TRANSFORMER CABINET FOUNDATION DETAILS DMS CABINET ADPATER AND ELEVATOR BASE DETAILS
Feb-13 Feb-13 Feb-13	FM-4.01 FM-4.02 FM-4.03	CCTV CABINET BLOCK DIAGRAM FREEWAY MANAGEMENT SYSTEM CABINET BLOCK ETHERNET DIAGRAM DMS CABINET ETHERNET BLOCK DIAGRAM
Feb-13 Feb-13 Feb-13 Feb-13 AUG-13 AUG-13 AUG-13	FM-5.01 FM-5.02 FM-5.03 FM-5.04 FM-5.05 FM-5.06 FM-5.07 FM-5.08	DETECTION DEFINITION TYPICAL DETECTOR LOOP INSTALLATION DETAILS TYPICAL PREFORMED DETECTOR LOOP INSTALLATION DETAILS DETECTOR LOOP IN AC PAVEMENT INSTALLATION LAYOUT DETECTOR LOOP IN PCCP PAVEMENT INSTALLATION LAYOUT DETECTOR LOOP TEST FORM 1 DETECTOR LOOP TEST FORM 2 PART A DETECTOR LOOP TEST FORM 2 PART B
Feb-13 Feb-13 Feb-13 Feb-13 Feb-13	FM-6.01 FM-6.02 FM-6.03 FM-6.04 FM-6.05 FM-6.06	RAMP METER DETAILS SINGLE-LANE RAMP METER SINGLE-LANE RAMP METER WITH FRONTAGE ROAD TWO-LANE RAMP METER TWO-LANE RAMP METER TWO-LANE RAMP METER WITH FRONTAGE ROAD RAMP METER WITH OBSTRUCTION INSTALLATION DETAILS
Feb-13 Feb-13 Feb-13	FM-7.01 FM-7.02 FM-7.03	CCTV POLE CCTV CABINET MOUNTING DETAILS AND FIELD ORIENTATION CCTV POLE AND MOUNTING DETAILS CCTV POLE MOUNTING PLATE DETAILS

		ADOT ST	ANDARD DRAWINGS				
	REV!	ISION DATES a	nd STANDARD NO.'s	REVIEW			
	NAME DATE						
ITS SYSTEM	ITS SYSTEM STANDARDS Z. July 27, 2016						
PROJECT NO.							
000	0000 MA AVN SZ079 01C OF						
RECORD DRAWING			REC. DWG. DATE		OF		
DATA	CM-AVN-()(216)T					
	CM-AVN-	O(216)T			OF		

MIDPOINT OF PROJECT Central Zone State Plane Coordinates X=570,610 Y=896,715

INDEX OF SHEETS

LENGTH OF PROJECT

Sta 18+34.00 to 116+21.00 = 9,787 Feet

Sheet No. Sheet Type Face Sheet ADOT Standard Drawings 1C-1, 1C-2, 1E Design Sheets Typical Sections Sheet 5-6 Details Conduit Elevation And Section At Canal Plan Sheets 8-12 13-14 Traffic Control Plans CCTV Camera Mounting Detail 16-22 Intersection Improvement Plans Splicing Detail

SYMBOLOGY LEGEND

	EXISTING	NEW
Duct With 96-Strand SMFO Cable		
Duct With Single Mode 12 Strand Fiber		
Light Pole With Mast Arm & Luminaire	<u>) </u>	
Pull Box/Cabinet	므	
Avondale No. 9 Pull Box/Vaul	<i>†</i>	
No. 7 Pull Box		
Conduit Callout		(x)

	F.H.W.A. REGION			SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9 ARIZ.		ARIZ.	AVN-0(216)T	2	23	
			0000 MA AVN			

GENERAL NOTES

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

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

The average project elevation is 1009 ft.

New Right of Way and easements are not required.

Construction zone traffic control shall conform to the requirements of the "Manual on Uniform Traffic Control Devices" (MUTCD), 2009 Edition, the project plans and specifications.

The contractor shall obtain all permits required by all government agencies. The contractor shall obtain a seperate floodplain and/or grading permit prior to commencing such work.

All work not in conformance with these plans and specifications shall be removed at the contractor's expense.

All dimensions shown are to the back of existing curb unless otherwise noted.

ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES Englneering and Environmental Consultants, Inc 4625 East Fort Lowell Road | Tucson, Arizona 85712 Tel 520.321.4625 | Fax 520.321.0333 DESIGN SHEET

DYSART RD RANCHO SANTA FE TO INDIAN SCHOOL RD

7/27/2016

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TRACS NO. SZ079 01C

CM-AVN-0(216)T

EXPIRES 3-31-17

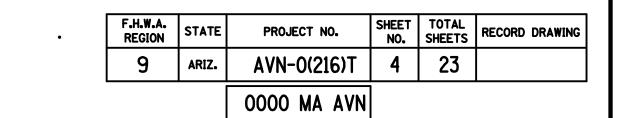
SHEET G1 OF G2

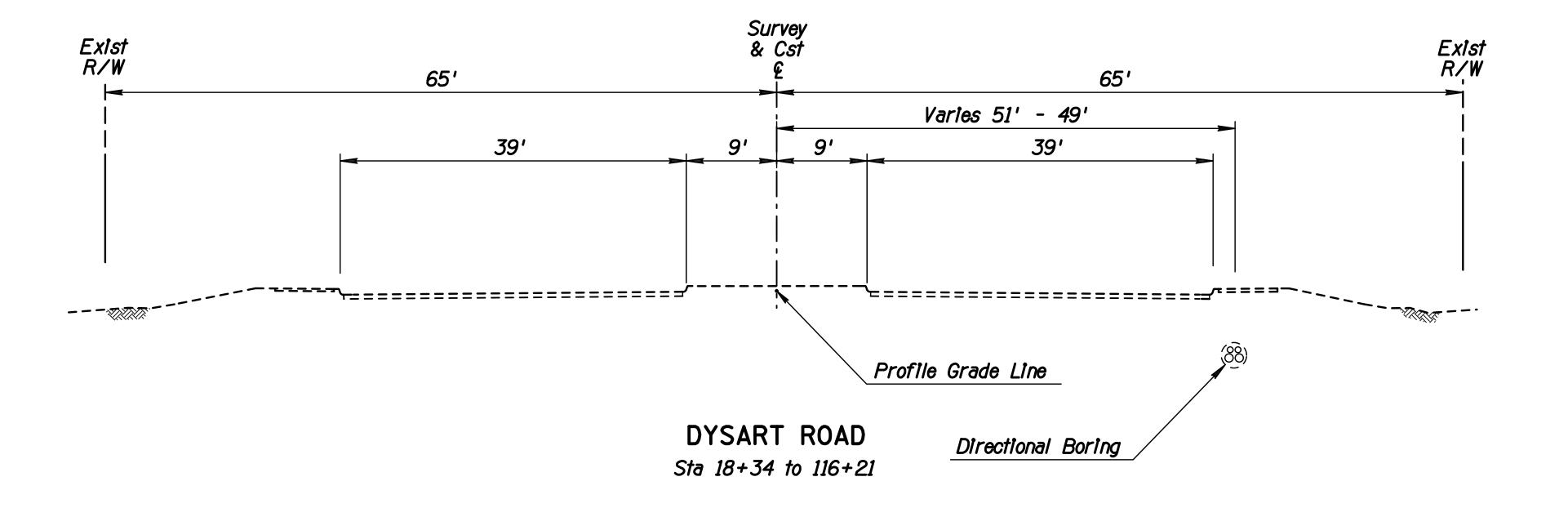
F.H.W.A. REGION STATE PROJECT NO. SHEET NO. SHEETS RECORD DRAWING AVN-0(216)T 3 23

ITS NOTES

- 1. All work shall conform to the Arizona Department Of Transportation (ADOT) Standard Specifications For Road And Bridge Construction 2008, 2010 Standard Drawings For Traffic Signals And Lighting, these plans, and the special provisions including subsequent addenda prior to bid date.
- 2. The location of the utilities are approximate. The contractor shall be responsible, per Section 730-6 of the standard specifications, for contacting all utilities (including Bluestake) for the exact locations prior to the construction activity. The contractor is responsible for maintaining proper clearances as required by the utility company and adhering to the requirements stipulated in permits. The contractor shall coordinate all conduit installation requirements with other project trade groups.
- 3. The plans show the general path and location of the ITS conduit in relation to major physical features. The locations of other utilities and other secondary objects along the conduit path may not be as shown in the plans, but shall be identified by the contractor as the conduit route is marked just prior to installation. The information on the drawings concerning the type and location of existing underground and overhead utilities is approximate and has not been independently verified by the Engineer or engineer's agent. The contractor shall determine the exact location of all existing utilities and shall be fully responsible for any and all damages which might result from the contractor's failure to locate and preserve any and all underground and overhead utilities.
- 4. The contractor shall stake all pull box and conduit locations and obtain approval from the engineer prior to any excavation or trenching activities.
- 5. The contractor is to submit a request in writing to the ADOT Engineer when field adjustments are necessary to avoid conflict with utilities or construction.
- 6. The top of pull boxes shall be flush with surrounding final grade elevations. Refer to ADOT Standard Drawing T.S. 1-4, or as indicated on the plans.
- 7. The contractor shall place warning tape in all trenches in which new conduit is placed per Section 732-2.02 and 732-3.01 in the 2008 ADOT Specifications For Road And Bridge Construction. The cost of the warning tape and installation shall be included in the cost of the conduit and not paid for separately.
- 8. The contractor shall verify the correct version of all drawings that have revisions pending with the ADOT Engineer.
- 9. Materials and equipment shall be installed in accordance with the current standards and recommendations of the National Electrical Code, the National Electrical Safety Code and with local codes that apply. Where discrepancies arise between codes, the most restrictive regulation shall apply.
- 10. All pull boxes shall meet the requirements of HS20-44 truck traffic rating.

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Boring Hole

2-2" & 2-4"

HDPE Ducts

96 SMF0 Cable

Legend

Unused

DIRECTIONAL BORING DETAIL

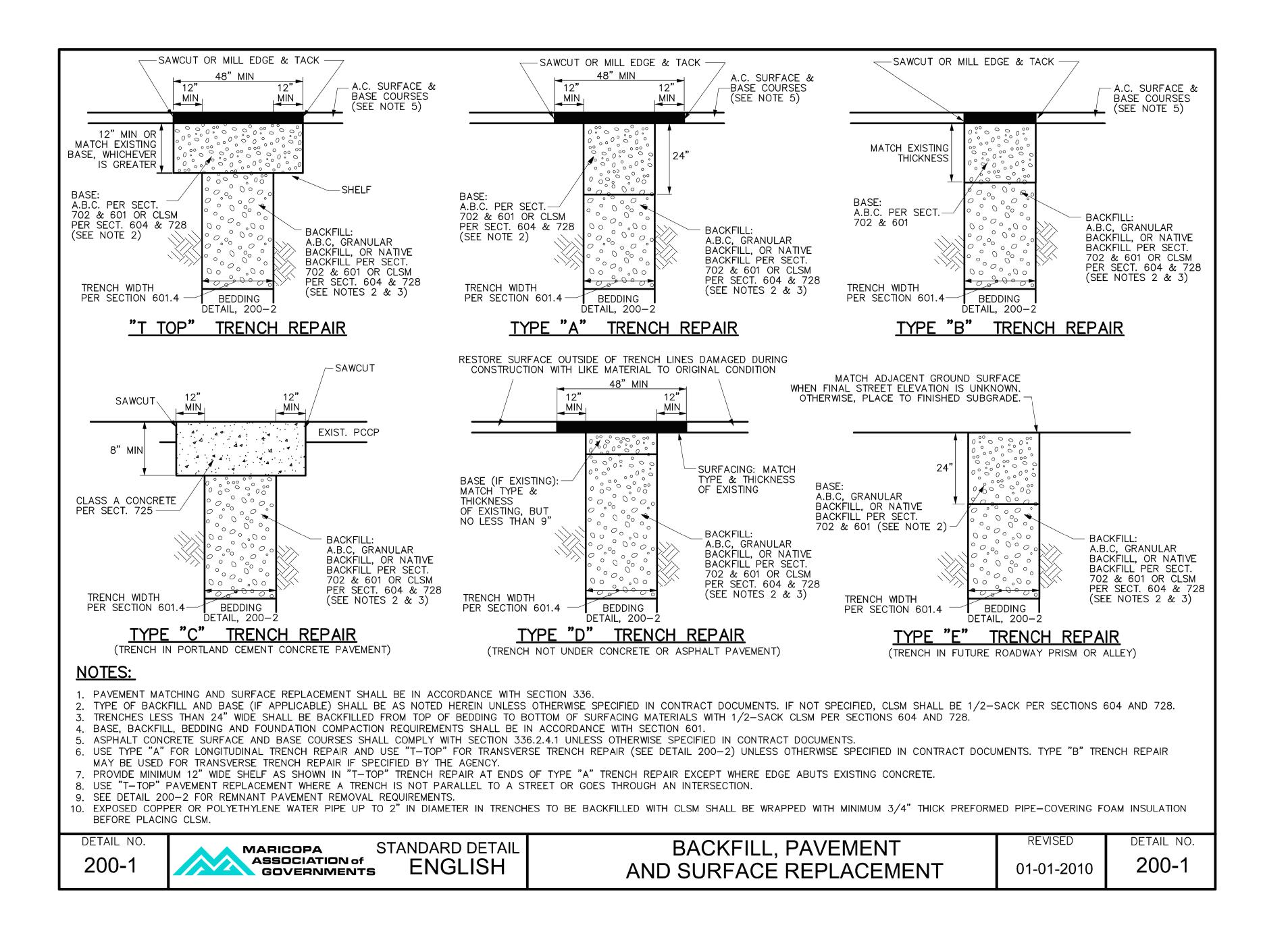
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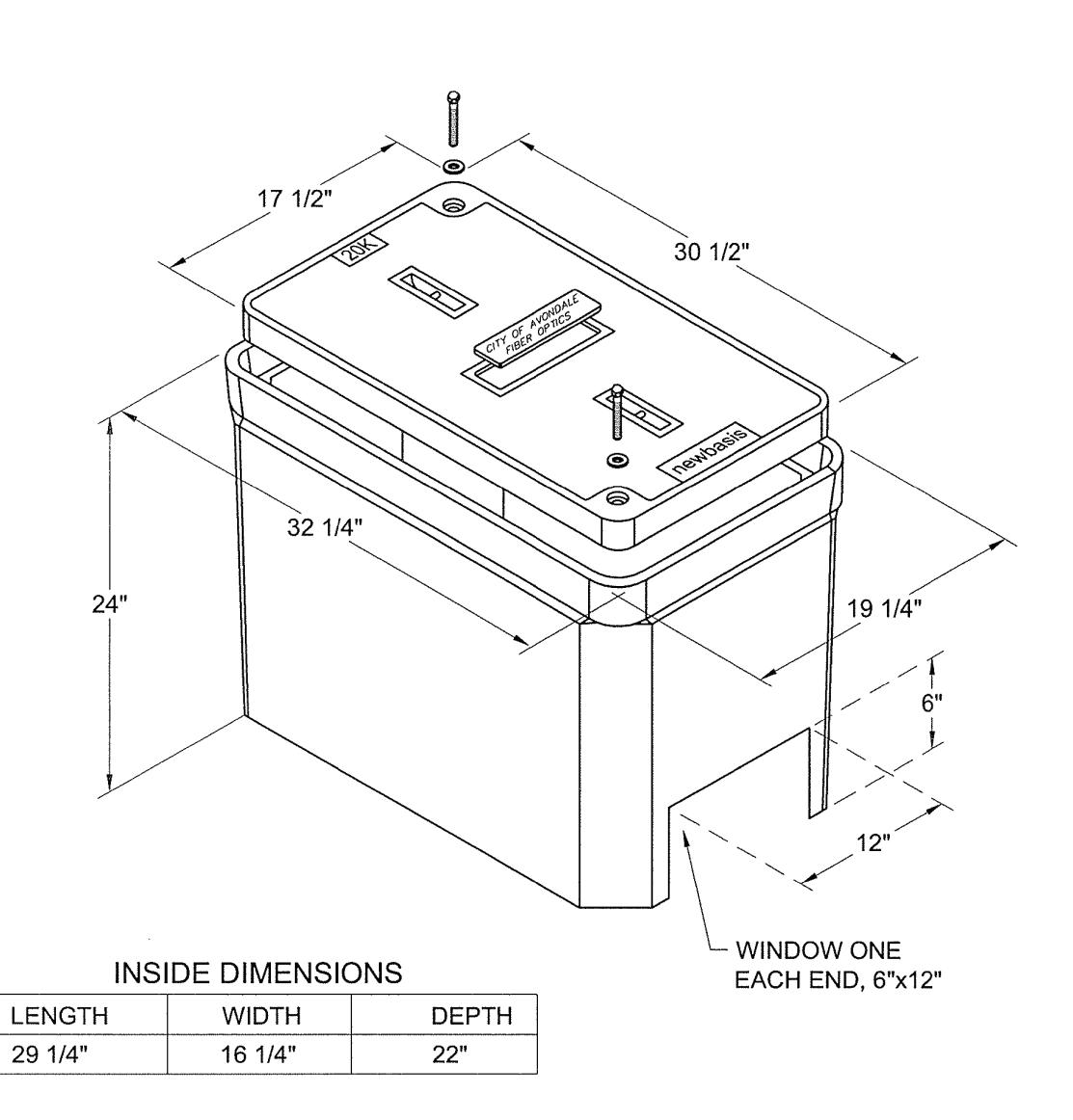
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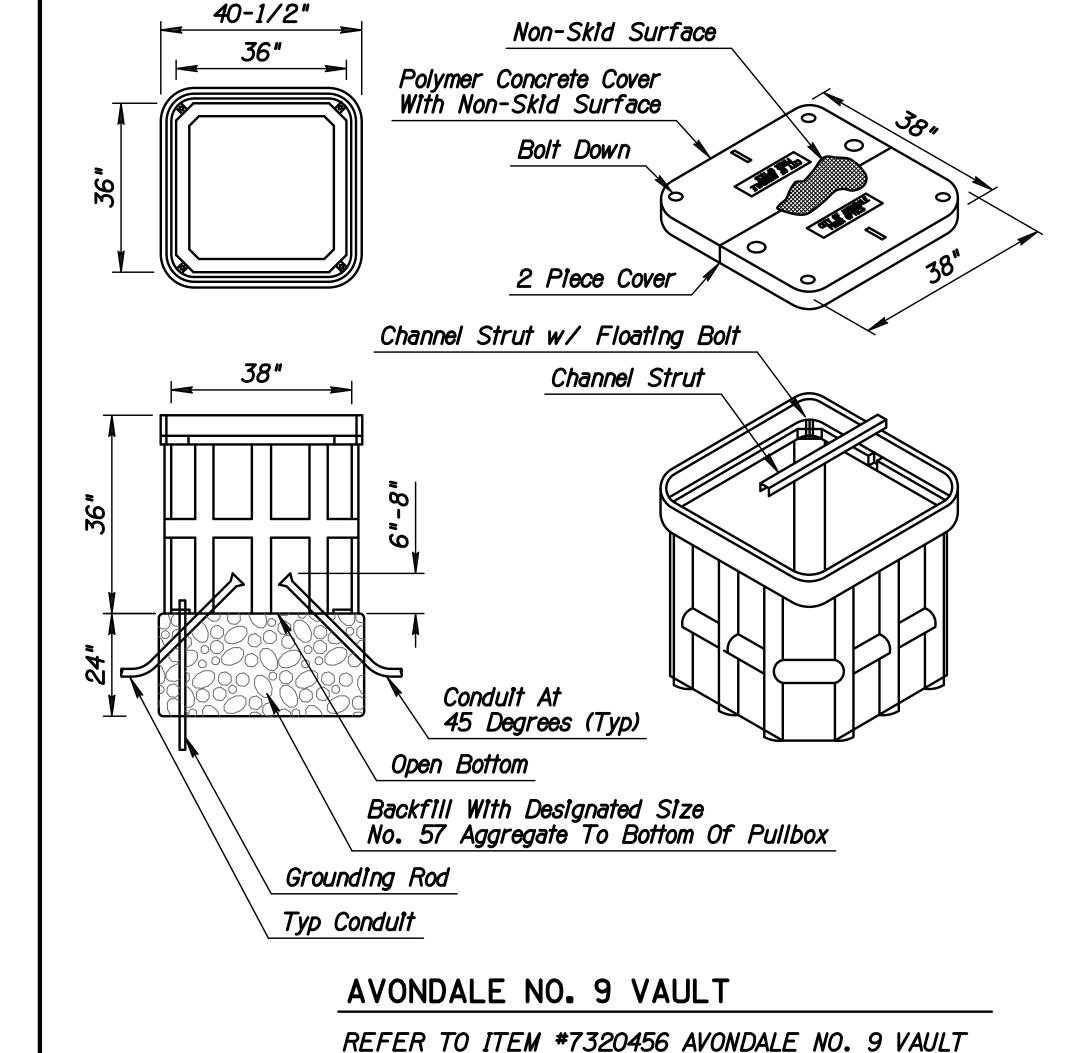
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NOTES:

- 1. TOPS OF PULL BOXS SHALL BE FLUSH WITH SURROUNDING GRADE OR TOP OR ADJACENT CURB, EXCEPT IN UNPAVED AREAS WHERE PULL BOX IS NOT IMMEDIATELY ADJACENT TO AND PROTECTED BY A CONCRETE FOUNDATION, POLE OR OTHER PROTECTIVE CONSTRUCTION, THE PULL BOX SHALL BE PLACED WITH ITS TOP 0.75 INCH ABOVE SURROUNDING GRADE. WHERE PRACTICAL, PULL BOXS SHOWN IN THE VICINITY OF CURBS SHALL BE PLACED ADJACENT TO THE BACK OF CURB, AND PULL BOXES SHOWN ADJACENT TO POLES SHALL BE PLACED ON SIDE OF FOUNDATION FACING AWAY FROM TRAFFIC, UNLESS OTHERWISE NOTED.
- 2. WHEN PULL BOX IS INSTALLED IN SIDEWALK AREA, THE DEPTH OF THE BOX SHALL BE ADJUSTED SO THAT THE TOP OF THE BOX IS FLUSH WITH THE TOP OF THE SIDEWALK.
- 3. PULL BOX SHALL NOT BE WITHIN THE BOUNDARIES OF NEW OR EXISTING WHEELCHAIR RAMPS.
- 4. CONTRACTOR SHALL ADAPT CONDUIT STUBOUTS FOR SPECIFIC PROJECT REQUIREMENTS FOR SPECIFIC PROJECT REQUIREMENTS. AS A MINIMUM, ONE 2-INCH CONDUIT SHALL BE STUBBED OUT AND CAPPED FOR FUTURE CITY OF AVONDALE USE.
- 5. ALL DIMENSIONS ARE NOMINAL AND SHALL BE CONSIDERED MINIMUM. VARIATIONS ARE ALLOWABLE.
- 6. ALL CONDUITS SHALL BE SEALED WITH COMPATIBLE SEALANT.
- 7. ALL CABLE STRAPS SHALL BE DESIGNED TO WITHSTAND ULTRAVIOLET EXPOSURE.
- 8. PLUG EACH CONDUIT END WITH APPROVED WATERPROOF DUCT PLUG.
- 9. UNSPLICED CABLE SHALL HAVE 100 FEET OF SLACK CABLE. EXCESS CABLES ARE TO BE COILED AND PLACED INSIDE THE PULL BOX.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING	
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NOTES:

1. TOPS OF VAULTS SHALL BE FLUSH WITH SURROUNDING GRADE OR TOP OR ADJACENT CURB, EXCEPT IN UNPAVED AREAS WHERE VAULT IS NOT IMMEDIATELY ADJACENT TO AND PROTECTED BY A CONCRETE FOUNDATION, POLE OR OTHER PROTECTIVE CONSTRUCTION, THE VAULT SHALL BE PLACED WITH ITS TOP 0.75 INCH ABOVE SURROUNDING GRADE. WHERE PRACTICAL, VAULTS SHOWN IN THE VICINITY OF CURBS SHALL BE PLACED ADJACENT TO THE BACK OF CURB, AND VAULTS SHOWN ADJACENT TO POLES SHALL BE PLACED ON SIDE OF FOUNDATION FACING AWAY FROM TRAFFIC, UNLESS OTHERWISE NOTED.

PULLBOX NO. 7

REFER TO ITEM #7320420 PULLBOX NO. 7

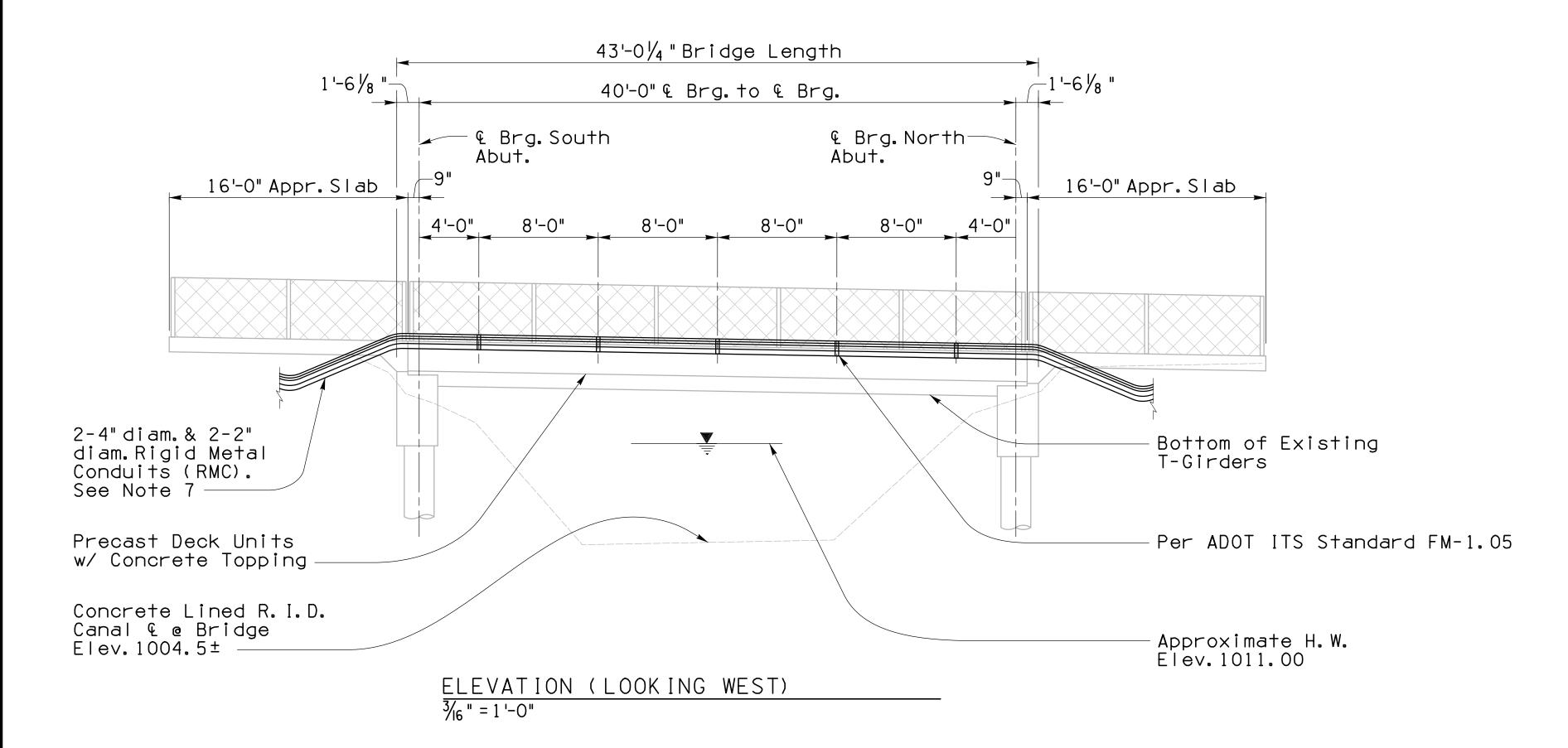
- 2. WHEN VAULT IS INSTALLED IN SIDEWALK AREA, THE DEPTH OF THE VAULT SHALL BE ADJUSTED SO THAT THE TOP OF THE VAULT IS FLUSH WITH THE TOP OF THE SIDEWALK.
- 3. VAULT SHALL NOT BE WITHIN THE BOUNDARIES OF NEW OR EXISTING WHEELCHAIR RAMPS.
- 4. CONTRACTOR SHALL ADAPT CONDUIT STUBOUTS FOR SPECIFIC PROJECT REQUIREMENTS. AS A MINIMUM, ONE 2-INCH CONDUIT SHALL BE STUBBED OUT AND CAPPED FOR FUTURE USE.
- 5. ALL DIMENSIONS ARE NOMINAL AND SHALL BE CONSIDERED MINIMUM. VARIATIONS ARE ALLOWABLE.
- 6. ALL CONDUITS SHALL BE SEALED WITH COMPATIBLE SEALANT.

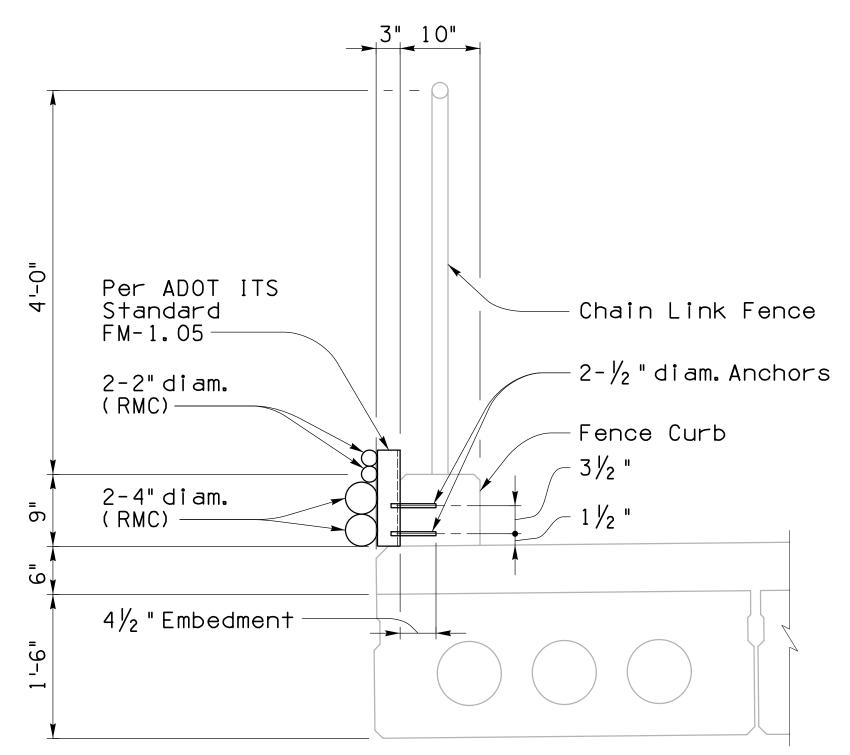
- 7. ALL CABLE STRAPS SHALL BE DESIGNED TO WITHSTAND ULTRAVIOLET EXPOSURE.
- 8. PLUG EACH CONDUIT END WITH APPROVED WATERPROOF DUCT PLUG.
- 9. UNSPLICED CABLE SHALL HAVE 100 FEET OF SLACK CABLE. EXCESS CABLES ARE TO BE COILED AND PLACED INSIDE
- 10. "CITY OF AVONDALE FIBER OPTICS" SHALL BE EMBOSSED ON THE LID

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION	USSIORCE W
DESIGN	JKA	06-16	INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION	No.
DRAWN	JKA	06-16	ROADWAY DESIGN SERVICES	13900
CHECKED	RCA	06-16		R. CRAIG
$\frac{\infty}{2}$	Engineering and Environmental Coi 4625 East Fort Lowell Road Tucson, Artzona 8 Tel 520.321.4625 Fax 520.321.0333	•	ITS CITY OF AVONDALE DETAILS	ALLISUN ALLISU
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TYPICAL EAST SIDEWALK SECTION 1 " = 1 '-O"

General Notes:

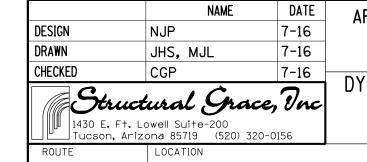
- 1. Construction Specification Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest edition.
- 2. Design Specifications AASHTO LRFD Bridge Design Specifications,6th edition 2012.
- 3. All dimensions of existing construction are approximate. The contractor shall verify all existing conditions and report any irregularities or discrepancies to the Engineer prior to proceeding with work and fabrication.
- 4. Dimensions shall not be scaled from drawings.
- 5. Attach channel to the outside of the bridge fence curb using AT-XP epoxy adhesive with F1554 Grade 36 anchors or approved equal. Use $\frac{1}{2}$ inch diam.anchor bolts - 2 anchors per channel with a $4\frac{1}{2}$ inch minimum embedment depth. If reinforcing is encountered during drilling operation, the location of the hole may be moved ±1 foot such that 10 foot maximum spacing shall be maintained.
- 6. Every effort shall be made to minimize impacts to the existing facilities (fencing, concrete, etc.). Damage to the facilities shall be repaired to equal or better condition than existing at no additional cost to the Department.
- 7. All underground RMC shall be wrapped in PVC tape and all transitions from RMC to PVC shall be in accordance with ADOT ITS Standard FM-1.04.

ROOSEVELT IRRIGATION DISTRICT APPROVAL The Roosevelt Irrigation District (RID) has reviewed these plans solely for conformance to RID standards and specifications as related to RID irrigation and/or drainage facilities. RID makes no representations or warranties regarding the suitability, and/or adequacy, of the items being constructed to meet, fulfill, or otherwise satisfy, their intended purpose. RID approves these plans for concept and approves the second of the secon

only and accepts no liability for errors or omissions. RID Right-of-Way Crossing Permit required prior to construction.

ROOSEVELT IRRIGATION DISTRICT APPROVAL RID PERMIT NUMBER

DATE



TRACS NO. SZ079 01C

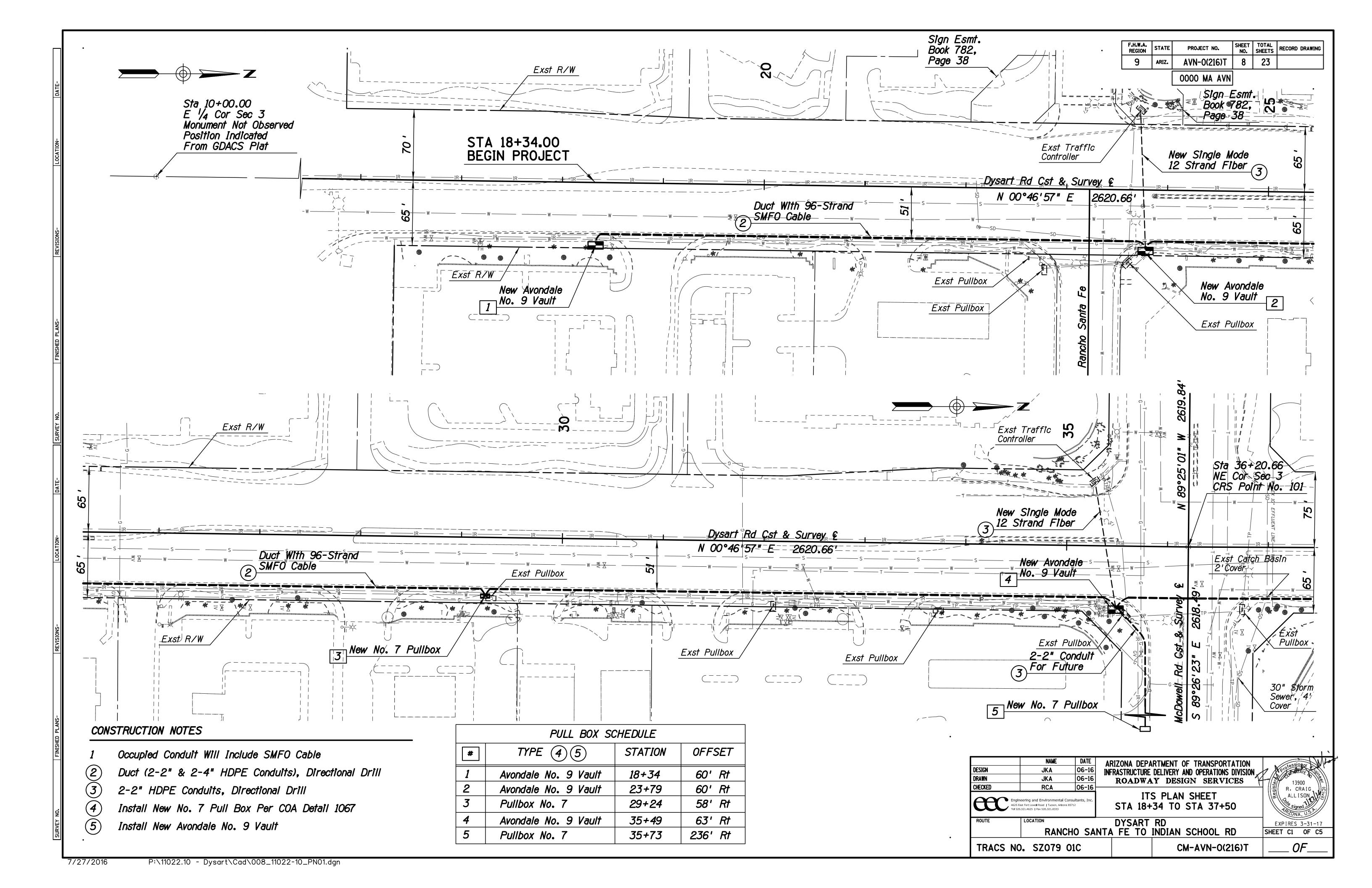
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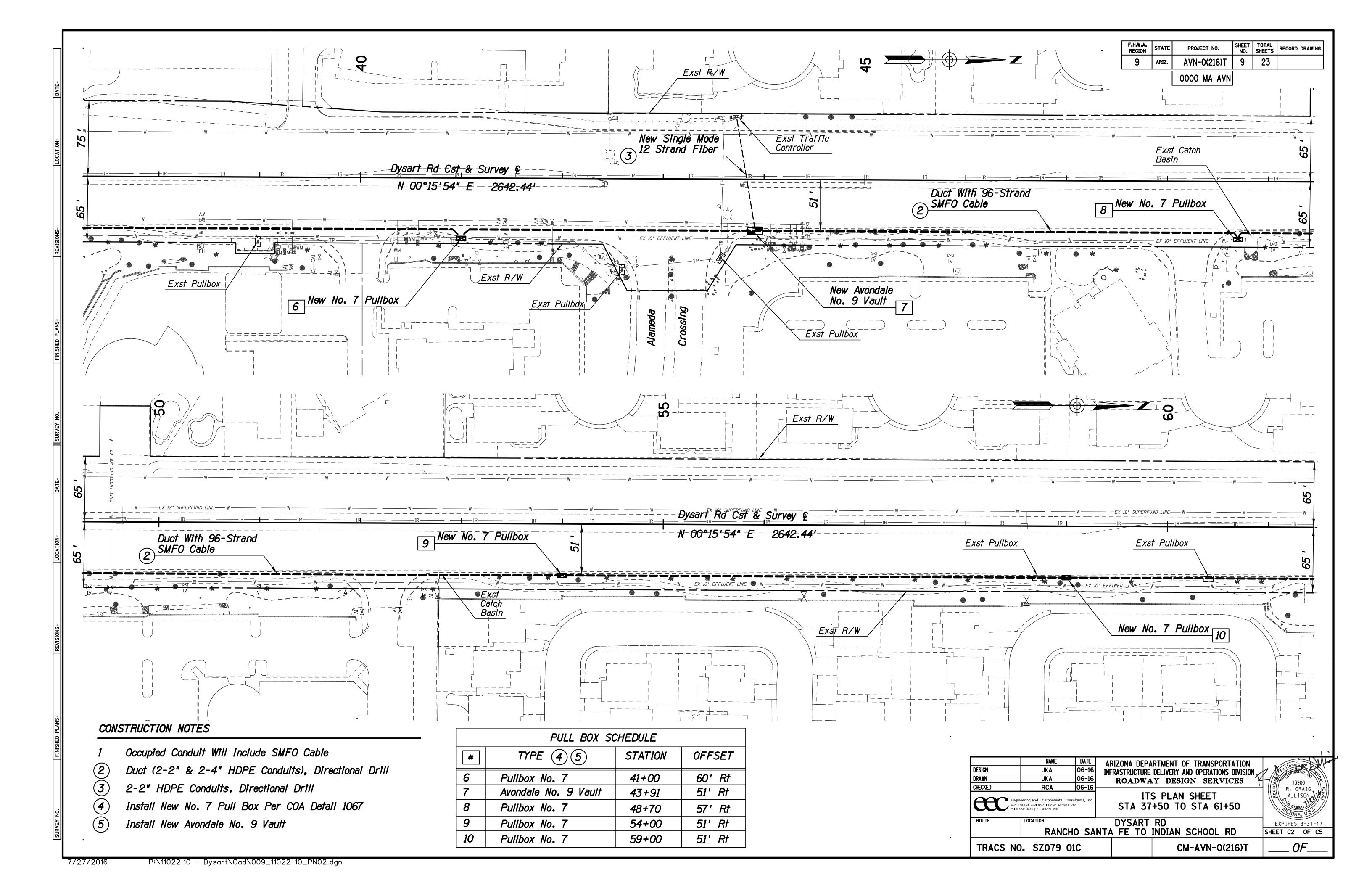
DYSART ROAD BRIDGE ITS IMPROVEMENTS **ELEVATION & SECTION**

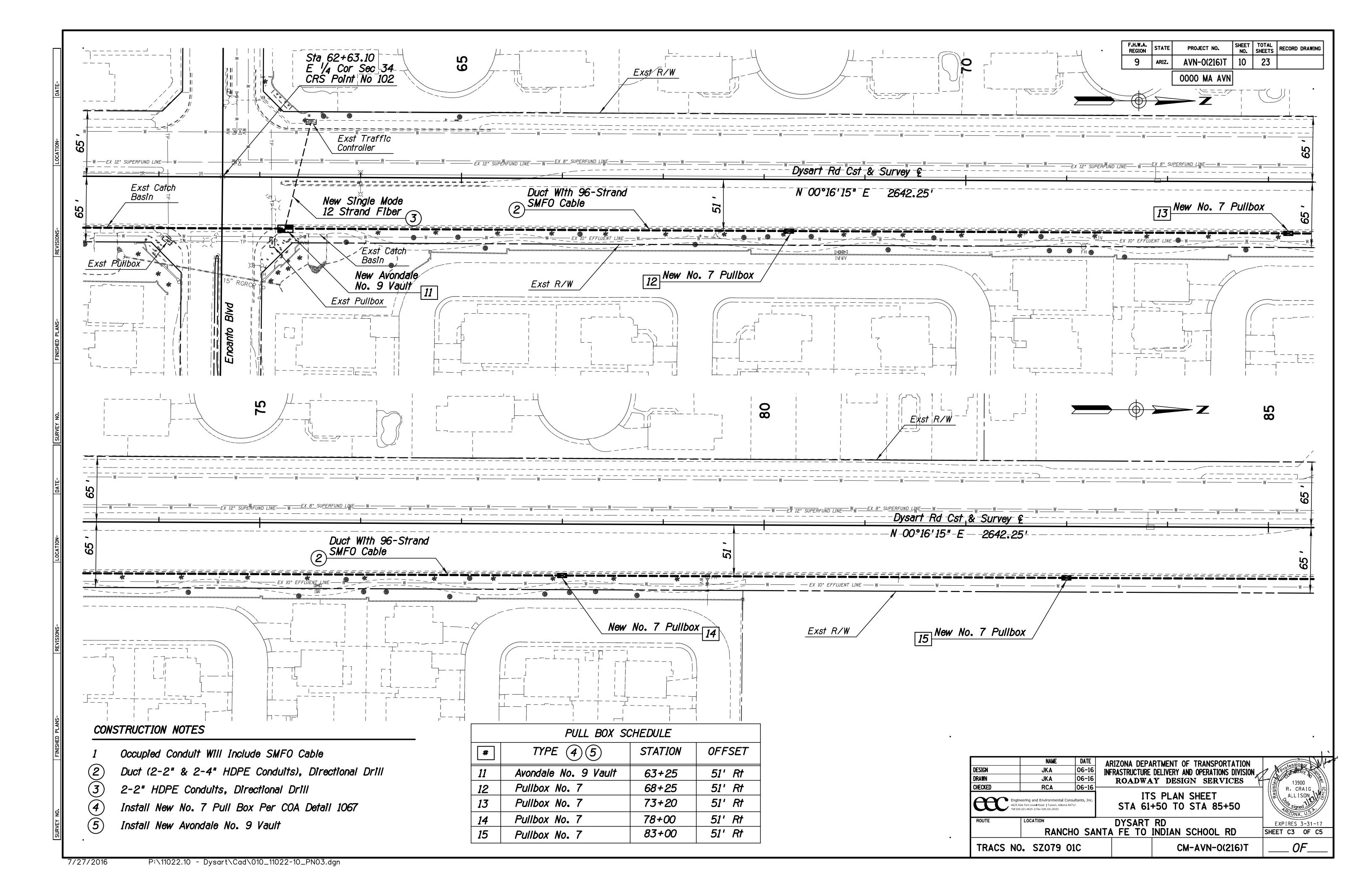
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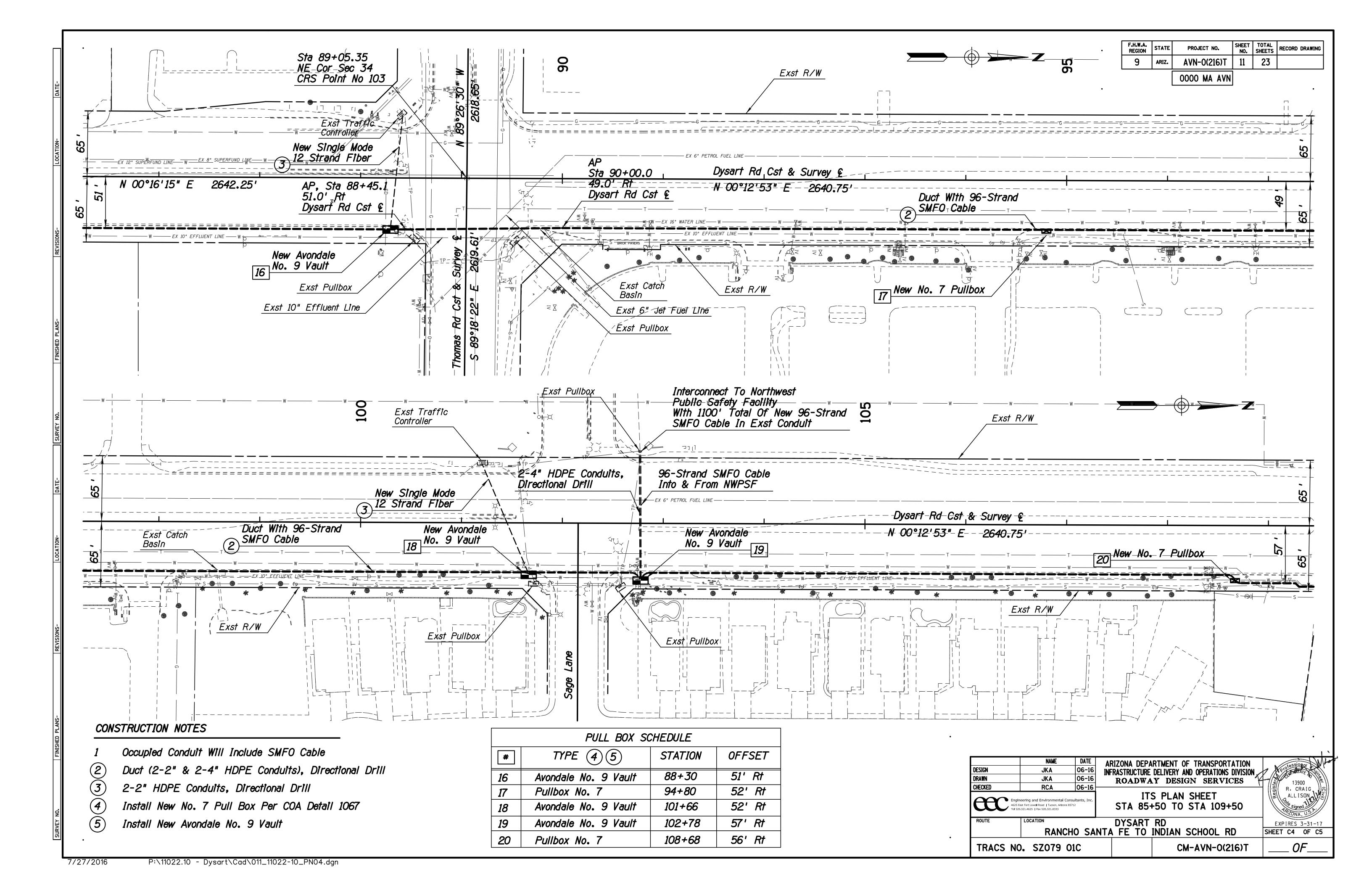
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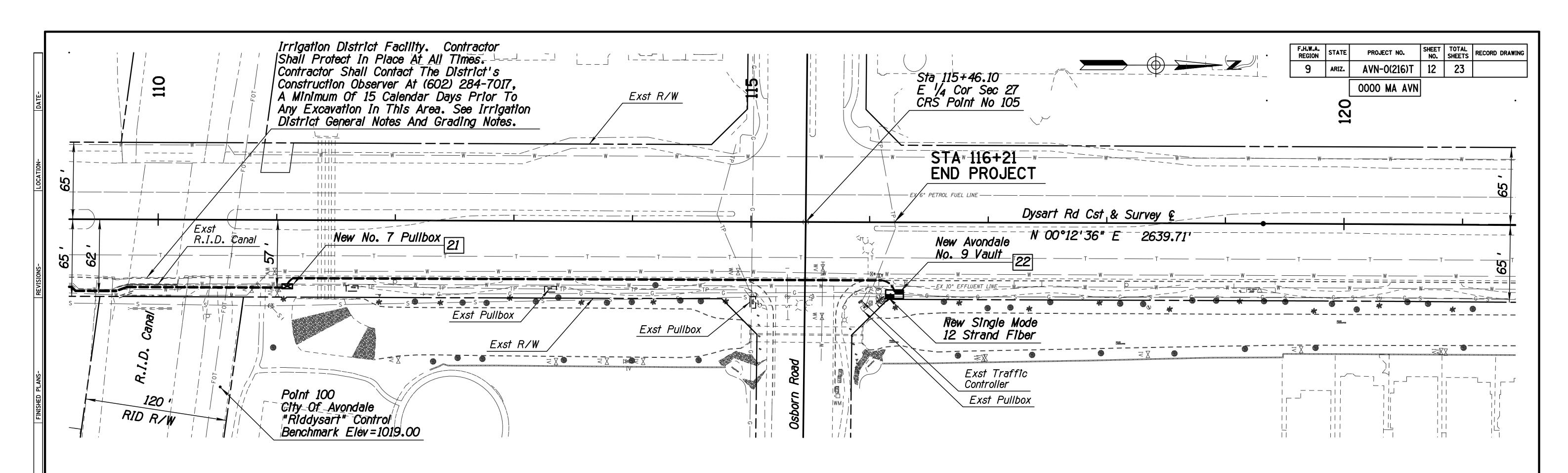
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PULL BOX SCHEDULE							
#	TYPE 4 5	STATION	OFFSET				
21	Pullbox No. 7	111+09	57' Rt				
22	Avondale No. 9 Vault	116+21	61' Rt				

CONSTRUCTION NOTES

- 1 Occupied Conduit Will Include SMFO Cable
- (2) Duct (2-2" & 2-4" HDPE Conduits), Directional Drill
- (3) 2-2" HDPE Conduits, Directional Drill
- (4) Install New No. 7 Pull Box Per COA Detail 1067
- (5) Install New Avondale No. 9 Vault

ROOSEVELT IRRIGATION DISTRICT GENERAL NOTES

- 1. The Term District As Used In These Notes (This Sheet) Shall Refer To The Roosevelt Irrigation District (RID).
- 2. The District Construction Observer Must Approve The Scheduling Of All Construction Activities Within The District Right-Of-Way. The District May Require That Some Or All Of The Construction For The Project Be Completed Only During A Scheduled Dry-Up Of The Main Canal.
- 3. All Construction Plans Affecting District Facilities Must Be Reviewed And Approved By The Irrigation District.
- 4. The Contractor Shall Contact The Districts Construction Observer At (602) 284-7017, A Minimum Of 15 Calendar Days Prior To Commencement Of Construction.
- 5. The Contractor Is Responsible For Obtaining A Right-Of-Way Crossing Permit From The District Before Any Work Can Commence Within District Right-Of-Way.
- 6. The Contractor Shall Provide Shop Drawings For Review By The Districts Engineer As May Be Necessary For The Execution Of The Work And As Required By The Drawings And Specifications.
- 7. Stations Shown Are Approximate And May Be Varied As Directed By The Developers Engineer.
- 8. All Existing Irrigation Facilities Disturbed By New Construction Shall Be Reconstructed To Current RID Standards.
- 9. All Construction Including, But Not Limited To: Equipment, Fencing, Spoils, Etc. Must Remain Outside Of District Right-Of-Way Unless Otherwise Approved By The District Construction Observer.
- 10. Existing Irrigation Facilities Must Remain Operational, And Shall Not Be Disturbed Or Rendered Inaccessible To RID Operations And Maintenance Staff.

ROOSEVELT IRRIGATION DISTRICT GRADING NOTES

- 1. The Contractor Shall Provide Smoothly And Evenly Graded Finished Ground Surfaces About All District Facilities Within The Project Area.
- 2. The Contractor Shall Import Additional Fill Material Or Export Excess Cut Material As Required To Provide Satisfactory Finished Grading About District Facilities As Indicated On The Approved Plans Or As Directed By The District Construction Observer.
- 3. Finished Grading Shall Blend Smoothly Into Existing Grades.
- 4. Finished Surfaces Shall Be Graded To Direct Drainage Away From District Facilities.
- 5. 0&M Roads Shall Be Constructed With A Minimum Elevation 6 Inches Above Adjacent Fields And A 2 Percent Cross Slope Unless Otherwise Noted.
- 6. O&M Roads Adjacent To Canal Prism Shall Be Constructed With A Minimum Elevation 6 Inches Above Adjacent Fields And A 2 Percent Cross Slope Away From Canal Prism Area Unless Othewise Noted.

	NAME	DATE	ARIZONA DEPA	RTMENT OF TRANSPORTATION	-ssignar W
DESIGN	JKA	06-16		DELIVERY AND OPERATIONS DIVISION,	No.
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CHECKED	RCA	06-16			R. CRAIG
Engineering and Environmental Consultants, Inc. 4625 East Fort Lowell Road Tucson, Arizona 85712 Tel 520.321.4625 Fax 520.321.0333				S PLAN SHEET +50 TO STA 133+50	ALL ISON ARIZONA U.S.A.
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- 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.
- 2. The retroreflective sheeting on all construction signs shall meet criteria established in Section 1007 of ADOT Specifications and in Section 380 of the ADOT Traffic Engineering Policies, Guidelines and Procedures.
- 3. All signs shown on the plans shall be mounted on embedded posts. Signs installed on embedded posts shall be mounted at a minimum height of 7 feet as measured from the bottom of the sign to the near edge of the pavement. All other short-term signs may 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. Flags shall be mounted on top of all construction signs except the "END ROAD WORK THANK YOU" sign.
- 6. Type A flashing warning lights shall be required on all nighttime construction signs except the "END ROAD WORK THANK YOU" sign.
- 7. Type C steady-burning yellow lights shall be mounted on every barricade.
- 8. Channelizing devices shall be placed 40 feet on center in tapers and 80 feet on center in tangents, except as otherwise noted on plans.
- 9. Construction signs shall not be displayed to traffic more than 24 hours prior to the actual start of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after the completion of construction activities.
- 10. All construction signs shall have black letters on an orange background, except as otherwise noted.
- 11. Speed limit signing is preliminary and is subject to review and change by the Engineer as dictated by field conditions.
- 12. Where no closure is necessary but where there is construction alongside a roadway under construction, the contractor shall place a 48 x 48 inch "ROAD WORK AHEAD" and "SHOULDER WORK AHEAD" sign as directed by the Engineer to alert the public to the construction activities.

DEVICES

- 1. The contractor may substitute Type I barricades for Type II barricades as long as the reflective area on the top panel of each Type I barricade is equivalent or greater than the reflective area of a Type II barricade.
- 2. When traffic control devices are not in use, they shall be moved at least 30 feet from the roadway.
- 3. The contractor shall maintain two-way traffic at night, on weekends, on holidays, and as directed by the Engineer.
- 4. The contractor shall utilize a flashing arrow panel in the sequential chevron mode for each closure of a through lane. The contractor shall not utilize a flashing arrow panel in connection with any shifting taper.

PLAN NOTES

- 1. All drawings are schematic only and not to scale.
- 2. The traffic control plans represent a suggested method for traffic control during construction. The contractor may prepare another traffic control plan in accordance with Section 701 of the Standard Specifications. All traffic control plans are subject to the approval of the Engineer before beginning construction.
- 3. Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities or as directed by the Engineer.

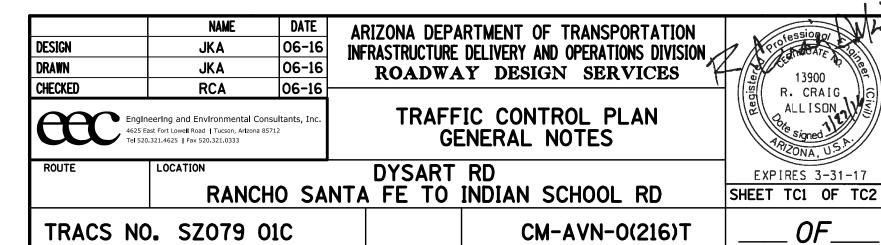
GENERAL NOTES

- 1. The contractor shall maintain traffic on paved surfaces at all times.
- 2. The schedule and the related traffic control shall be developed such that access is maintained to all abutting roadways. The layout, format and content of the schedule shall be suitable for public release and acceptable to the Engineer. Local emergency services providers shall be informed of the location and duaration of lane restrictions. The schedule and related traffic control shall be updated as necessary.

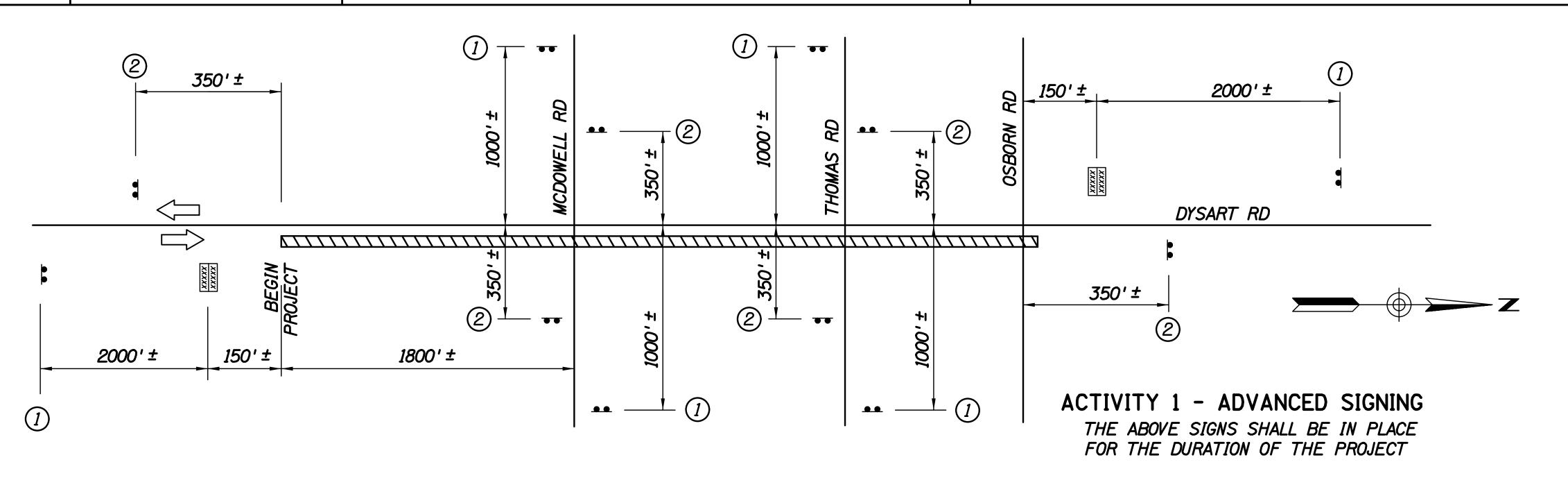
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ADVANCE WARNING SIGNS

- 1. Coordinate Advance Warning Sign with the Engineer.
- 2. The Advance Signing shown on the Advance Warning Sign Detail is for complete project limits. Actual work location and cross street geometry may vary.
- 3. Provide and install changeable message signs on crossroads as directed by the Engineer.
- 4. Install changeable message sign on each approach to the work zone as directed by the Engineer.



	MAINTENANCE OF TRAFFIC							
ACTIVITY NO.	CONSTRUCTION ACTIVITY	TRAFFIC CONTROL	COMMENTS					
1.	ADVANCED SIGNING	PROVIDE STANDARD SIGNING FOR LANE CLOSURE AS SHOWN ON FIGURE SA-5(R) OF THE ADOT TRAFFIC CONTROL GUIDELINES.	LOCATE SIGNS AT PROPER DISTANCES TO THE BEGINNING OF THE TAPER ACCORDING TO THE GUIDELINES FOR ADVANCE PLACEMENT OF WARNING SIGNS IN THE MUTCD. WARNING LIGHTS SHALL BE INSTALLED ONLY IF NIGHT WORK IS PERMITTED.					
2.	WORKZONE SIGNING, MISCELLANEOUS ACTIVITIES	MAINTAIN AT LEAST ONE LANE TRAFFIC THROUGH THE CONSTRUCTION AREA. TRAFFIC CONTROL SHALL BE AS SHOWN ON FIGURE SA-5(R) OF THE ADOT TRAFFIC CONTROL GUIDELINES.	WORKZONE TRAFFIC CONTROL SIGNAGE SHALL BE INSTALLED AT EACH LOCATION FOR THE DURATION OF THE WORK ALONG THE EAST SIDE OF DYSART ROAD.					



	ESTIMATED QUANTITIES FOR	TRAFFIC CO	ONTROL		
ITEM NO	ITEM DESCRIPTION	UNITS	ACTIVITY 1	ACTIVITY 2	TOTAL
	ESTIMATED DURATION		120 CALENDAR DAYS	60 WORKING DAYS	TOTAL
7016030	BARRICADE (TYPE II, VERT PANEL, TUBULAR MARKER)	EACH-DAY	0	3300	3300
7016033	PORTABLE SIGN STANDS (SPRING TYPE)	EACH-DAY	0	<i>540</i>	<i>540</i>
7016035	WARNING LIGHTS (TYPE A)	EACH-DAY	720	0	720
7016037	WARNING LIGHTS (TYPE C)	EACH-DAY	0	3300	<i>3300</i>
7016039	EMBEDDED SIGN POST	EACH-DAY	2880	0	<i>2880</i>
7016050	TRUCK MOUNTED ATTENUATOR	EACH-DAY	0	60	60
7016051	TEMPORARY SIGN (LESS THAN 10 S.F.)	EACH-DAY	720	<i>54</i> 0	<i>1260</i>
7016052	TEMPORARY SIGN (10 S.F. OR MORE)	EACH-DAY	720	0	720
7016061	FLASHING ARROW PANEL	EACH-DAY	0	60	60
7016067	CHANGEABLE MESSAGE BOARD	EACH-DAY	250	60	310

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

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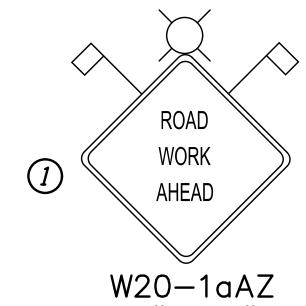
SYMBOL LEGEND:

SIGN ON EMBEDDED POSTS

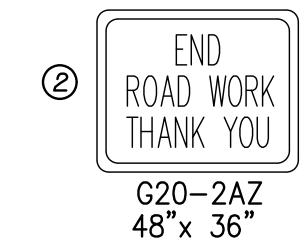
CHANGEABLE MESSAGE BOARD

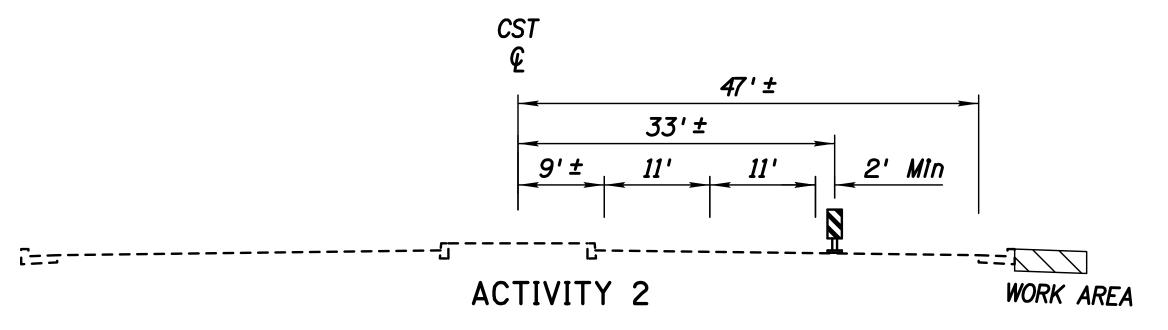
WORK AREA

DIRECTION OF TRAVEL

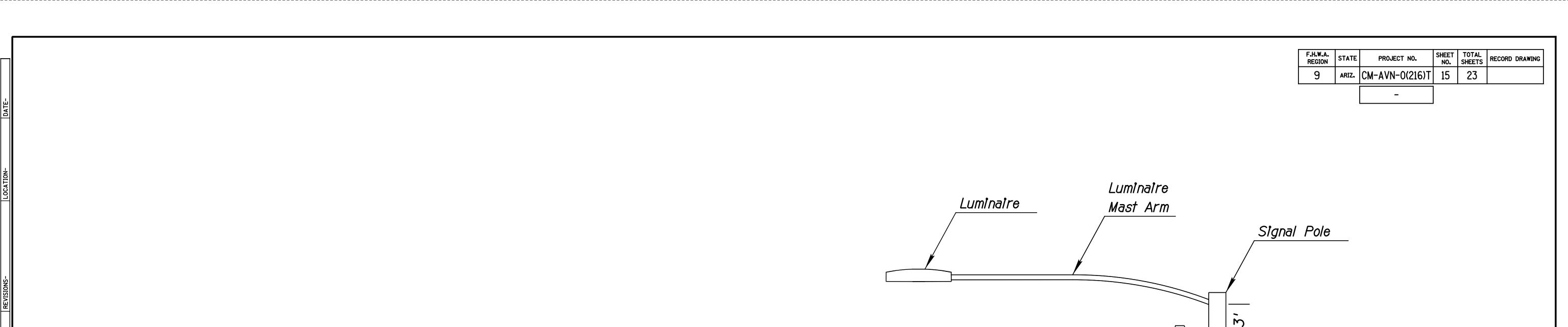


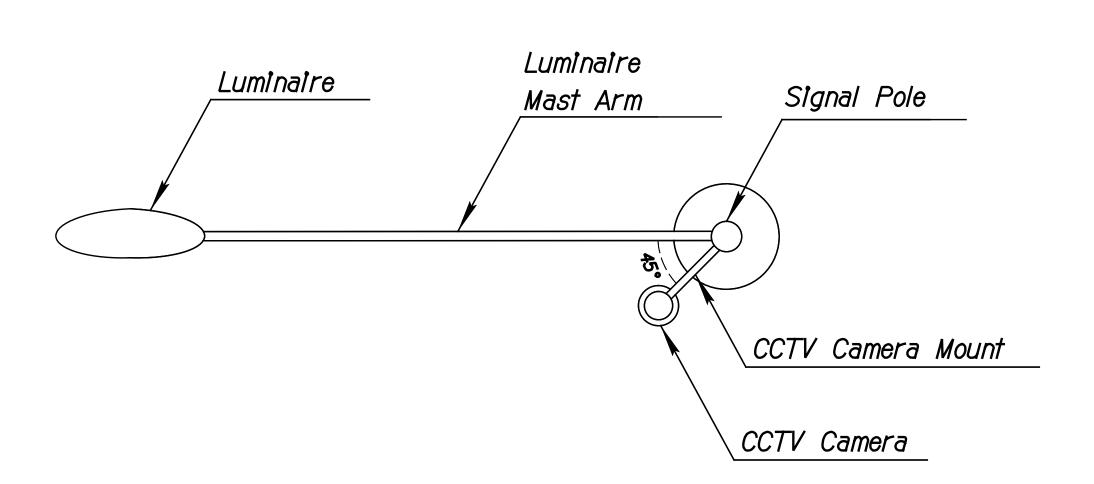
W20-1aAZ 36"x 36" TYPE "A" LIGHT AND FLAGS



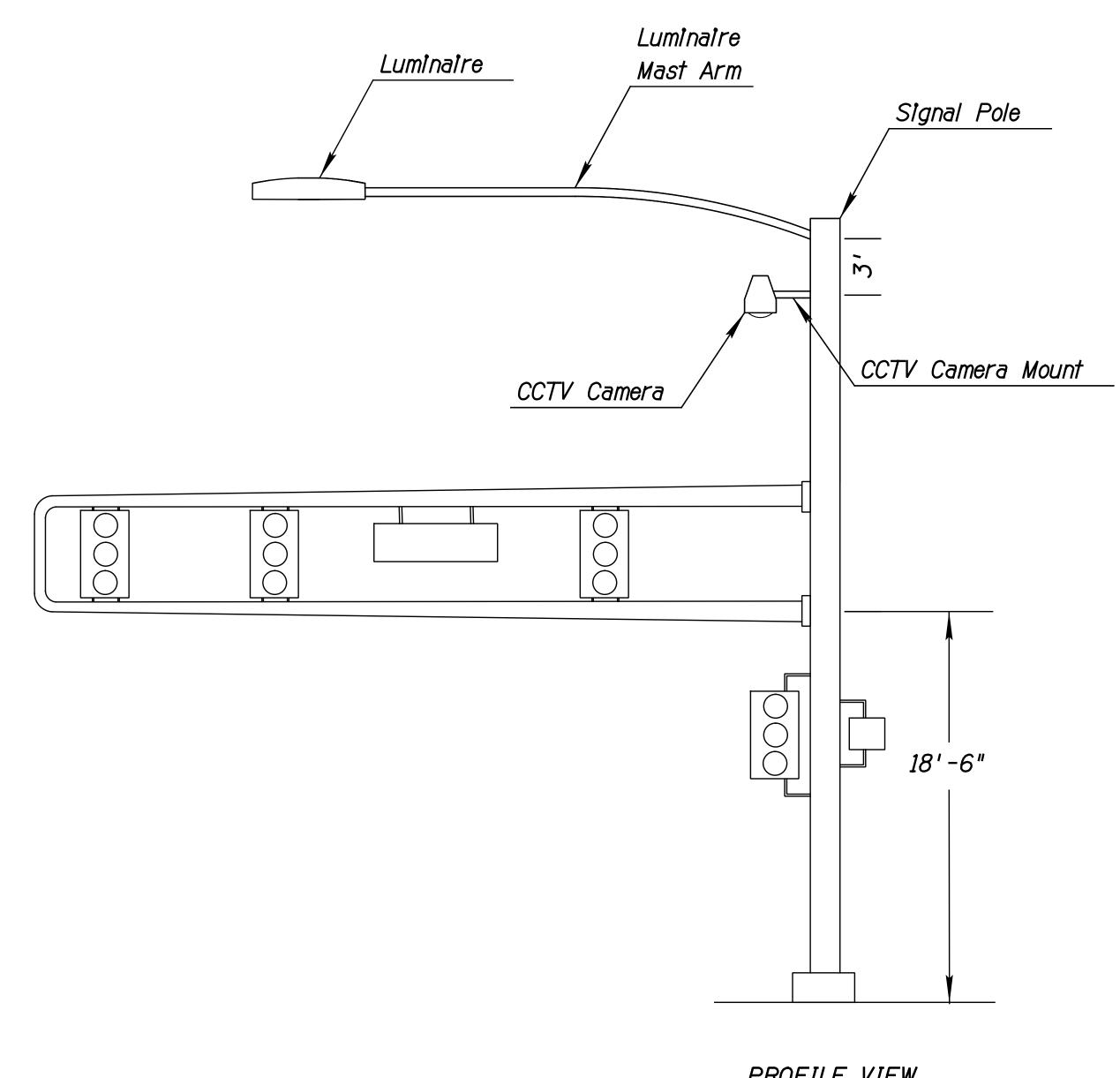


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PLAN VIEW



PROFILE VIEW

CCTV CAMERA MOUNTING DETAIL N.T.S.

	NAME	DATE	ARIZONA DEPAI	RTMENT OF TRANSPORTA	TION	Asion/	J
DESIGN	C. Williams	6/16		L TRANSPORTATION DIVISION			
DRAWN	R. Hicks	6/16		DESIGN SERVICE	s		
CHECKED	A. Smigielski	6/16	22,222 2 2			42636 CHRISTOPHER	
Tel	SOUTHWEST TRAFFIC ENGINEERING, LLC 3838 N. Central Ave., Suite 1810, Phoenix, AZ 85012 Tel 602.266.SWTE (7983) Fax 602.266.1115 www.swte.us		CCTV CAM	ERA MOUNTING DE	TAIL	B. WILLIAMS	
ROUTE			DYSART RO	DAD		Expires 6-30-17	7
	RANCHO SANTE FE TO INDIAN SCHOOL ROAD						9
TRACS	NO. SZ079 0	1C		CM-AVN-0(216) T	0F	

