STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY ENGINEERING



2010 **DRAFTING GUIDES**

FOR USE IN

OFFICE AND FIELD

31-004

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STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY ENGINEERING



2010 **DRAFTING GUIDES**

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		P-13.20	SAMPLE STORM DRAIN FOR URE

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ETE BOX CULVERT AND BOX RY SHEET SHEET WENTS & PRIVACY WALL DETAIL SHEET HEET FOR NEW PIPE INSTALLATION HEET FOR PIPE EXTENSION HEET FOR PIPE EXTENSION WITH CATCH BASIN HEET FOR NEW CONCRETE BOX CULVERT INSTALLATION HEET FOR BOX EXTENSION FOR RURAL ROADWAY

JRAL UNDIVIDED ROADWAY JRAL UNDIVIDED ROADWAY HEET FOR RURAL UNDIVIDED ROADWAY RBANIZED AREA ROADWAY R RURAL UNDIVIDED ROADWAY SHEET FOR URBANIZED AREA SHEET FOR URBAN FREEWAY MAINLINE SHEET FOR URBAN FREEWAY CROSSROAD SHEET FOR URBAN FREEWAY MAINLINE ILE FOR URBAN FREEWAY MAINLINE JLE SHEET FOR URBAN FREEWAY CROSSROAD JRBANIZED AREA STORM DRAIN & X-DRAIN

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1-1 GENERAL

1-1.1 Introduction

The "Drafting Guide for use in Office and Field" is intended for use by both State and consultant design personnel. It shall be used as a guideline and not as the sole source of information to which design personnel are restricted. The goal of these Drafting Guides is to maintain consistency and uniformity in the appearance of the prepared project plans.

This guide was created to assist design personnel in the preparation of the plans through the use of the CADD system. This is due to the commitment of Roadway Design to utilize the CADD system for all of the drafting required for the construction project plans.

The Department realizes certain plans may be prepared using manual methods. This version of the Drafting Guides does not address manual preparation of project plans. To do so, refer to the 1990 Drafting Guides for manual preparation of the construction project plans.

Each sample drawing has a reference sheet on which typical drafting parameters used in the preparation of the drawing are identified. It will also refer to any related drawings within the Drafting Guides. Additional design, supporting the information shown on the sample drawing, is included on the corresponding reference sheet.

The Drafting Guides cover a number of individual plan and detail sheets which may be included in a set of project plans. It is intended to present a variety of samples covering different project types and requirements. This edition, however, is not able to cover everything which may be necessary; because of this limitation, the Drafting Guides will be updated periodically with modifications and/or additions.

These guides are to be used in conjunction with the ADOT CADD Standards. The "Drafting Guides for use in Office and Field", and updates, will be distributed on the Roadway Design web site.

1-1.2 Standards

The project plans shall be clear, complete and concise. Accurate, complete and easily understood plans provide the contractor with the means to construct the project. This goal can be met through the initial effort within the design and drafting phase.

Details within the project plans show what is required for the contractor to build the items. The details, if necessary, should be kept simple, yet contain all pertinent information. The use of special details should be kept minimal, referring to the Construction Standard Drawings whenever possible.

Details shown within the Drafting Guides are samples from previous projects and are not meant to be duplicated without thorough review in regard to specific project applicability. Detail content is the responsibility of the design engineer.

1-2 SHEET PREPARATION

1-2.1 General

Project plans are engineering drawings used to convey information pertaining to typical sections, pavement, geometrics, structures, drainage and other data used to construct the project.

1-2.2 Drawing Format Order

All Sheets are to be 22"x34" overall. They shall be of reproducible Bond paper or Vellum. The drawing border & title block shall conform to ADOT's CADD Standards.

Project plans may contain some or all of the following sheets. The contents of the plan set shall follow the sequence presented below:

- (1) Face Sheet
- (2) ADOT Standard Drawings Index
- (3) Design Sheet(s)
- (4) Barrier Summary Sheet(s)
- (5) New Pipe Summary Sheet(s)
- (6) Pipe Extension Summary Sheet(s)
- (7) Box Culvert Summary Sheet(s)
- (8) Box Extension Summary Sheet(s)

- (9) Detail Sheet(s)
- (10) Culvert Detail Sheet(s)
- (11) Construction Phasing Sheet(s)
- (12) Geometric Sheet(s)
- (13) Plan & Profile Sheet(s) a. Mainline
- (14) Traffic Interchange Sheet(s)
 a. Ramp Plan & Profile Sheet(s)
 b. Crossroad Plan & Profile Sheet(s)
 - c. Paving Plan Sheet(s)
 - d. Staking Plan Sheet(s)
 - e. Pavement Joint Layout Sheet(s)
 - f. Detour Sheet(s)
- (15) Storm Drain Plan & Profile Sheet(s)
- (16) Topsoil Excavation & Plating
 Sheet(s)
- (17) Berm Plan & Profile Sheet(s)
- (18) Drainage Channel Sheet(s)
- (19) Traffic Sheet(s)
- (20) Structure Sheet(s)
- 1-2.3 General Drafting Practices

Text/Lettering

1) All text should follow the basic principles of single stroke Gothic style, either vertical or slant. Back slant is not acceptable. Slant text shall have a 22.5, plus or minus, degree angle from the right side of vertical.

2) The normal direction of reading text shall be from the bottom or the right side of the sheet. Horizontal and diagonal lines shall read from left-toright and vertical lines shall read from bottom-to-top.

3) Line spacing for text shall always be one-half the text size unless noted otherwise.

4) Abbreviations should occur only when enough space is not available for placement of the entire text.

CADD Line Work

Standard P-00.60 shows the allowable line weights. For information about line codes, see P-00.60. Line work shall be uniform throughout the drawings.

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INTRODUCTION TO ROADWAY CADD STANDARDS

Updates have been made to incorporate ADOT's current MicroStation standards. All danlib's, seed files, fonts, line styles, cell libraries, and Group specific automation menus are distributed electronically.

Area patterning of pavements and pavement structural sections are acceptable. Since ADOT has incorporated line styles for linear patterning, use of any additional line patterning is subject to approval.

CADD DATA ACCEPTANCE AND RELEASE RULES

Format - All vector data shall be in standard Bentley ".dgn" format as in use by ADOT during the time of inception of the project. No vector file formats other than Bentley ".dgn" format shall be used during the project development. ADOT will not accept or release any vector data in any format other than ".dgn".

RASTER DATA

Raster data may be used as a raster reference only as supplemental information such as aerial photography. A raster image (snapshot) will not be acceptable as a replacement for vector data. A raster image of vector information on plans will not be acceptable, up to and including the bid set. DO NOT CREATE PLANS FROM RASTER REFERENCES.

FILE PARAMETERS

The global origin shall be located at the center of the design cube. To center the global origin, in the MicroStation key-in browser, type: go=0,0;xy=0,0|uor enter, unless otherwise directed. This is done for you if you utilize the Roadway seed files.

WORKING UNITS

ADOT uses the SI-metric conversion and will not accept US survey feet. State law requires the SI-metric conversion be used. Unit definitions are supplied within the CADD resources.

GRAPHICS

Design sheet cells are provided in the 'roadway.cel' library. Numerous other cells are contained within additional cell libraries. Use of shared cells is not acceptable. Levels are contained within the supplied 'dgnlib' files. The line styles and fonts are contained within their resource files provided by ADOT. Roadway standard resource files are provided electronically and can be downloaded via the Roadway Design web site.

REFERENCE FILES

Reference files are not to be copied into the sheet files. Reference files are not to be attached utilizing user-defined environment variables.

SHEET FILES

Only one sheet per file. The use of additional models other than "Default" shall not be acceptable.

TFXT

The following general text parameters shall be used on all sheets at scale l"=100' unless:

- * Specified otherwise in the Sections' specifications
- * Specified otherwise in the item's standard definition
- * Preset within a cell
- * Explicitly requested otherwise by ADOT

For sheets at different scales TX and LS values shall be modified accordingly to ensure text size consistency.

FT=23	general text
FT=24	tabularized text
TX=15	existing items
FT=17.5	new items
WT=2	existing items
WT = 4	new items
LC=0	all text
LV=	predefined within the resource file: roadway.dgnlib
CO=	colors are defined ByLevel for cells only; otherwise, see Level and
	Color Designations from P-00.12

The following fonts constitute the accepte

Font 1 VERTICAL PROPORTIONAL general text, headers, titles

Font 7 OLD ENGLISH special headers, titles, non-technical

Font 9 VERTICAL NON-PROPORTIONAL tabularized text, general

Font 23 SLANTED PROPORTIONAL general slanted text

Font 24 SLANTED NON-PROPORTIONAL tabularized slanted text

Font 30 SWISS BOLD AREA FILL details, traffic signs, special headers

Font 42 OUTLINE PROPORTIONAL special graphics

Font 126 SYMBOL FONT special symbols

Font 127 CHAR FAST FONT slashed zero required in text

PLOTTING

The Username, file name, and date shall be plotted in the proper location at the bottom of the plan sheet.



Lower-Left Corner

12:48:25 PM 03/20/2008 V:\Roadway\Users\a1428\training\h1234bdr.dgn

Lower-Right Corner

ARCHIVING

Archiving of the project data files should be completed at the time the bid set is produced. The bid set contains ".dgn" files that contain reference file attachments outside the project directory. These attachments must be merged at the time the bid set is produced, or the data may be overwritten by a change to the standard details sheets, etc.

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able fonts for plan development	able	fonts	for	plan	deve	lopment.
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	NAME	DATE	ARIZONA DEF	PARTMENT OF TRANSPORTATION		
DESIGN	K. BROWN	3/08		DAL TRANSPORTATION DIVISION		
ORANN	R. FORTUNE	3/08		AY DESIGN SECTION		
CHECKED	J. HAVINS	3/08			_	
TEAM LEADER	J.C. COOPER	3/08				
	_					
ROUTE	LOCATION				_	
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LEVEL AND COLOR DESIGNATIONS

For Levels 1 through 63. the Color Number Shall Match the Level Number Level Ol Grid ticks Level 02 Spot elevations, photogrammetry and primary control points Level 03 Section corners, center of Section, Quarter corners, range lines, photogrammetry text Level 04 Monuments, boundaries: city, county, State, parks, forests, reservations level 05 Existing index contour lines and text Level 06 Existing intermediate contour lines and text level 07 Existing vegetation and text Level 08 Mapping symbols: water items and text Level 09 Existing man-made topography: buildings, noise walls billboards, foundations, driveways, sidewalks, cattle guards, pump houses, etc. Level 10 Text for level 09 items level 11 Existing utilities, railroads, standpipes, wells Level 12 Text for level 11 items Level 13 Existing minor drainage items: catch basins, manholes storm drains, sanitary sewers, ditches, dikes, canals, dams, gabions, headwalls, berms, pipes and pipe headwalls, end-sections, downdrains, spillways, aprons, pipe outlets, riprap, bank protection Level 14 Text for level 13 existing minor drainage items Text for level 22 existing major drainage items Level 15 Existing easement and permit lines level 16 Existing edges of roadways, gore paving, grader roads level 17 Existing traffic items: cross-walks, roadway striping, signal and light poles, all signs and delineation Level 18 Text for level 17 items Level 19 Road names, text for level 16 items Level 20 Existing non-surveyed roadway centerlines with tick marks Level 21 Existing non-surveyed roadway centerline items: bearings, stationing, equations, curve data, identification for PC's, PT's, PI's Level 22 Existing major drainage items: bridges, box culverts, CBC headwalls, retaining walls, major channels, structural plate pipes, tunnels Level 23 Existing channelization items: curbs, guardrails, impact attenuators, concrete barriers (median and half). barricades, chain-link cable barriers

Level 47 Level 24 Text for level 23 items Level 25 Level 48 North arrow, milepost markers, roadway dimensions, match lines and other miscellaneous items Level 26 All miscellaneous surveyed centerlines: survey, office, etc. level 49 Miscellaneous centerline items: bearings, stationing, equations, new light poles curve data, identifications for PC's, PT's and PI's Level 50 Level 27 New construction centerline with tick marks, centerline level 51 stationing Level 28 Level 52 New construction centerline items: bearings, curve data, new signals equations, identification for PC's, PT's, and PI's Level 53 Level 29 Existing fences, Right-of-Way markers and lines Level 54 Level 30 New signs New fences, Right-of-Way markers and lines, new temporary construction easements Level 55 Landscape details Level 31 Existing access control Level 56 Level 32 New access control Level 57 Irrigation details Level 33 No designation Level 58 Level 34 No designation Level 59 Level 35 New edges of pavement, turnouts, grader roads, sawcuts Level 60 Level 36 Text for level 35 items Level 61 Level 37 New intermediate and index contour lines, new cut level 62 and fill lines level 38 Level 63 New minor drainage items: catch basins, manholes, Plan sheet border storm drains, sanitary sewers, ditches, dikes, canals, dams, gabions, headwalls, end-sections, berms, NEW LEVELS downdrains, spillways, pipe outlets, aprons, pipes, riprap, bank protection, embankment curb Level Number Level 39 Text for level 38 items (new minor drainage items) Level 301 Text for level 48 items (new major drainage items) RDWY - Sawcut lines Level 40 Level 302 New utilities, railroads, standpipes, wells level 41 level 303 Text for level 40 items Level 42 Level 304 New miscellaneous items (hazards): cattle guards concrete barriers (median and half), impact attenuators, level 364 guardrail, barricades, block fences, chain-link cable barriers, noise walls, privacy walls level 43 Text for level 42 items level 44 New miscellaneous items (roadway edges), gore paving curbs, sidewalks, driveways, roadway shoulders, buildings APPROVEI DISTRIBU Level 45 Text for level 44 items level 46 New striping items (pavement markings)

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text for level 46 items New major drainage items: bridges, box culverts, tunnels, retaining walls, pump houses, major channels, structural plate pipes New pull-boxes and conduits, new drainage easements Text for level 49 and level 50 items Text for level 52 items Text for level 55 items Text for level 57 items All area patterning and shading, existing earth Standard grid - profile sheet (] inch) Standard grid - profile sheet (intermediate) Plan sheet text nodes and text for level 59 items For New Levels, the Color Number Does Not Match the RDWY - Text for level 301 RDWY - InRoads Reference Line (no plot) RDWY - Text for level 303 (no plot) RDWY - New fences not on new R/W line

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WORDS	ABBREVIATION	WORDS	ABBREVIATION	WORDS	ABBREVIATION
Α		B (cont)		C (cont)	
Abutment	Abt	Bituminous Mixture	BI† Mi×	Corrugated High-Density Polyethyl	ene Plastic Pipe CHDPEPP
Acceleration	Acc	Bituminous Surface Treatment	BST	Corrugated Metal Pipe	СМР
Acres	Ac	Bituminous Treated Base	BTB	Corrugated Steel Pipe	CSP
Aggregate	Agg	Black Steel Pipe	BSP	County	Со
Aggregate Base	AB	Borrow	Bor	Crossing	X-ING
Ahead	AHD, Ahd	Boulevard	BLVD, BIVd	Cross Section	X-SECT
Alternate	AI†	Boundary	Bdry	Crown	Cr
Aluminum	AI	Brass Cap	BC	Cubic	Cu
American Association of State Highway	AASHTO	Breakaway Cable Terminal	BCT	Cubic Feet Per Second	CFS
and Transportation Officials		Bridge	Br	Cubic Yard or Cubic Yards	CY, Cu Yd
American Concrete Institute	ACI	Building	Bldg	Culvert	Culv
American Institute of Steel Construction	AISC	C		Curb and Gutter, Curb & Gutter	C&G
American Road and Transportation	ARTBA	Calculated	Calc	Curve to Spiral	CS
Builders Association		Cast-In-Place	C-I-P	D	
American Society for Testing Materials	ASTM	Cast Iron	CI	Deceleration	Dcl
Amount	Am†	Cast Iron Pipe	CIP	Deflection	Def
Approach	Appr	Catch Basin	СВ	Deflection of Total Curve	I
Approximate	Approx	Cattle Guard	CC	Degree of Curve	D
Asphalt	Asph	Cement	Cem	Delineator	Del
Asphalt Rubber	AR	Cement-Treated Base	СТВ	Delta	Δ
Asphalt Rubber ACFC	ARACFC	Center	Ctr	Depressed Curb	DC
Asphaltic Concrete	AC	Center Line	<u>و</u>	Design Speed	Des Spd
Asphaltic Concrete Base	ABC	Center to Center	C to C	Detail	D+I
Asphaltic Concrete Friction Course	ACFC	Channel	Chan	Diameter	Dia
Asphaltic Concrete Surface Course	ACSC	Class	CI	Distance	Dist
Avenue	AVE, Ave	Clear	CIr	Division	Div
Average Daily Traffic	ADT	Column	Col	Double	Dы
В		Compact or Compaction	Comp	Drain or Drainage	Drn
Back	BK, BK	Complete In Place	C in P	Drainage Area	DA
Backfill	Bkfl	Concrete	Conc	Drawing	Dwg
Balance	Bal	Concrete Box Culvert	CBC	Drive	Dr
Bank Protection	BP, Bank Prt	Concrete-Treated Base	СТВ	Driveway	Dwy
Barbed Wire	BW	Connection	Conn	Ductile Iron Pipe	DIP
Bearing	Brg	Conduit	Cond	Ε	
Begin	Bgn	Construct or Construction	Cst	Each	Ea
Begin Curb Return	BCR	Continuous	Cont	Easement	Esmt
Begin Full Super	BFS	Coordinate	Coord	East	E
Bench Mark	ВМ	Corner	Cor	Eastbound	ЕВ
Bevel or Beveled	Bev	Correction	Corr		
Bituminous	Bi+	Corrugated Aluminum Pipe	САР		
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ABBREV	IATION
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WORDS	ABBREVIATION	WORDS	ABBREVIATION	WORDS	ABBREVIATION
E (cont)		G (cont)		M (cont)	
Edge of Pavement	EP	Ground	Gnd	Median	Med
Electric, Electricity	Elec, E	Ground Compaction	Gnd Comp	Mile or Miles	МІ
Elevation	Elev	Grubbing	Grb	Mile Post	MP
Embankment	Emb	Guard	Grd	Miles Per Hour	МРН
End Curb Return	ECR	Guardrail	GR	Mineral Aggregate	MA
End Full Superelevation	EFS	Guardrail Extruder Terminal	GET	Minimum	Min
Engineer	Engr	н		Miscellaneous	Misc
Entrance	Ent	Headwall	Hdwl	Modify or Modified	Mod
Equation	EQ, Eq	Height	Ht, H, h	Monument	Mon
Estimate	Es†	Height of Instrument	н	Mountain	Mt
Excavation	Exc	Head Water	нพ	N	
Existing	Exst	Highway	Hwy	National	Natl
Expansion Joint	Exp Jt	Horizontal	Horz		NRCIPCP
Extend or Extension	E׆	Horizontal Elliptical Reinforced	HERCP	Non-Reinforced Cast-In-Place Concrete Pipe	
External	E׆	Concrete Pipe		Normal Crown	NC
F		1		North	Ν
Federal	Fed	Improvement	Impr	Northbound	NB
Feet or Foot	F†	Inch or Inches	In	Number	No
Feet per Foot	Уfi	Include, Included or Inclusive	Incl	0	
Feet Per Second	FPS	Inside Diameter	ID	Obliterate	ОЫ
Figure	Fig	Invert	Inv	Original	Orig
Finish	Fin	Irrigation	Irr	Outside Diameter	OD
Floor	FI	J		Overhead	ОН
Flow Line	FL	Joint	J†	Overpass	OP
Footing	Ftg	Junction	Jc†	Ρ	
Forest	Fst	L		Parkway	Pkwy
Found	Fnd	Laboratory	Lab	Pavement	Pvmt
Frame	Fr	Lateral	Lat	Pedestrian	Ped
Freeway	Fwy	Left	L†	Place	PI
Frontage	Frt	Length or Length of Curve	L	Point	Pt
Furnish or Furnished	Furn	Length of Normal Crown Removal	L _c	Point of Compound Curvature	PCC
Future	Fu†	Length of Spiral	Ls	Point of Curvature	PC
G		Length of Superelevation Runoff	Ls	Point of Intersection	PI
Gas	G	Line	Ln	Point of Reverse Curvature	PRC
Gas Meter	GM	Linear or Lineal	Lin	Point of Tangency	PT
Gas Valve	GV	Linear Feet	Lin Ft	Point on Curve	POC
Galvanize or Galvanized	Galv	Location	Loc	Point on Semi-Tangent	POST
Gauge	Ga	м		Point on Spiral	POS
Government	Gov't	Manhole	МН	Point on Tangent	POT
Grade	Gr	Material	M†I	Polyethylene	PE
Grade Separation	GS	Maximum	Max	APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES
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WORDS	ABBREVIATION	WORDS	ABBREVIATION	WORDS	ABBREVIATION
P (cont)		S		T (cont)	
olyvinyl Chloride	PVC	Salvage	Salv	Telephone	Tel
ortland Cement Concrete	PCC	Section	Sct	Temporary	Temp
ortland Cement Concrete Pavement	PCCP	Select Material	SM	Temporary Construction Easement	TCE
ounds	Lbs	Sheet	Sh	Timber	Tbr
ounds Per Square Inch	PSI	Shoulder	Shidr	Top of Curb	TC
reliminary	Prelim	Shrinkage	Shr	Topography	Τορο
restress, Prestressed or Prestressing	PS	Sidewalk	S/W	Township	т
roject	Prj	Sight Distance, headlight	SDh	Traffic Interchange	TI
roperty Line	P/L	Sight Distance, stopping	SDs	Transition	Trns
roposed	Prop	Single	Sgl	Turning Point	TP
rotection	Prt	Skew	Sk	Turnout	то
rovision or Provide	Prv	South	S	Турісаі	Typ
		Southbound	SB	U	
uadrant	Quad	Special	Spcl	Underground	Ugnd
uantity or Quantities	Quan	Specification	Spec	Underpass	UP
uantity of Drainage Runoff	0	Spiral Rate of Change	a	v	
		Spiral To Curve	SC	Variable	Var
adius	R	Spiral To Tangent	ST	Vertical	Vert
ailroad	RR	Square	Sq	Vertical Curve	VC
ange	R	Square Feet	Sq Ft	Vertical Elliptical Reinforced	VERCP
econstruct	Recst	Square Yard	Sq Yd	Concrete Pipe	
eference	Ref	Standard	Std	Vertical Point of Intersection	VPI
einforced or Reinforcing	Reinf	State Route	SR	Viaduct	Via
einforced Concrete	RC	Station	Sta	Vitrified Clay Pipe	VCP
einforced Concrete Pipe	RCP	Street	S†	Volume	Vol
einforcing Bar	Rebar	Structure or Structural	Str	W	
elocate, Relocation or Relocated	Reloc	Subdivision	Subdiv	Water	w
emove	Rem	Subgrade	SG	Water Meter	WM
equired	Reqd	Subgrade Seal	SS	Water Valve	WV
eservation	Resv	Superelevation	e or Super	Welded Wire Fabric	WWF
esidence	Res	Surface	Surf	West	w
etain or Retaining	Ret	Survey	Sur	Westbound	WB
evised or Revision	Rev	Swell	Sw	Western Wood Products Association	WWPA
ight -	R†	Symmetrical	Sym	Wide or Width	w
ight-of-Way	R/W	т		Wood	Wd
bad	Rd	Tangent	Tan	Y	
padway	Rdwy	Tangent Length	т	Yard	Yd
oute	Rte	Tangent to Spiral	TS		
ubber Gasket Reinforced Concrete Pipe	RGRCP	Telegraph	Tig		
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GENERAL ABBREVIATIONS

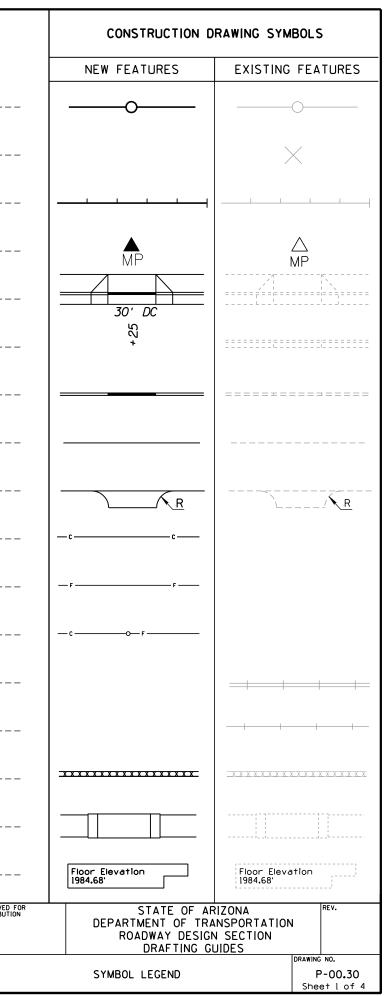
STD P-00.20

DRAWING NO. **P-00.20** Sheet 3 of 3

	CONSTRUCTION D	RAWING SYMBOLS	
	NEW FEATURES	EXISTING FEATURES	
National, State Boundary			Survey Control Point
Forest or Reservation Boundary		·	Bench Mark
County Line			Centerline, Station Marks
City Limits			Mile Post Marker
Township or Range Line			Sidewalk, Curb & Gutter w/Depressed Curb (["=50' or larger)
Section Line			Curb & Gutter with Depressed Curb (1"=100')
Quarter or Mid-Section Line			Curb, Single with Depressed Area
Sixteenth-Section Line			Pavement and Sidewalk Edge
Right-of-Way Line			Turnout
Property Line			Top of Cut
Temporary Construction Easement			Toe of Fill
Access Control			Transition, Cut to Fill
Section Corner			Railroad Track (1"=50' or larger)
Quarter Corner		-0-	Railroad Track (1"=100')
Survey Monument	÷		Bank Protection
Right-of-Way Marker	•	\oplus	Bridge
Angle Point or Pl			Building
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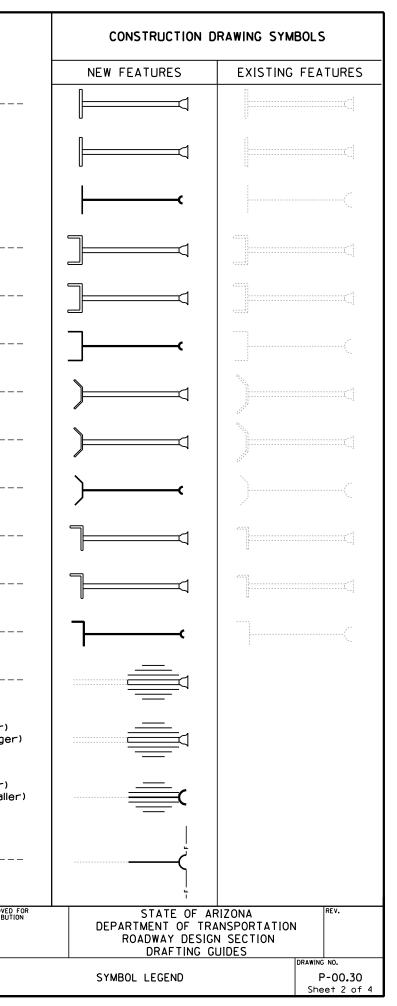
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	CONSTRUCTION E	DRAWING SYMBOLS	
	NEW FEATURES	EXISTING FEATURES	
Catch Basin, Curb & Gutter			Straight Hdwl w/End Sct, Pipe (1"=20') (All Dia)
Catch Basin, Safety			Straight Hdwl w/End Sct, Pipe (l*=50' or smaller) (Dia=42" and larger)
Catch Basin, Median			Straight Hdwl w/End Sct, Pipe (l"=50' or smaller) (Dia=36" and smaller)
Catch Basin, Single Curb			"U" Hdwl w/End Sct, Pipe (1"=20') (All Dia)
Cattle Guard			"U" Hdwl w/End Sct, Pipe (1"=50' or smaller) (Dia=42" and larger)
Concrete Box Culvert)	"U" Hdwl w/End Sct, Pipe (1"=50' or smaller) (Dia=36" and smaller)
Dike, Median			Wing Hdwl w/End Sct, Pipe (1"=20') (All Dia)
Dike			Wing Hdwl w/End Sct, Pipe (l"=50' or smaller) (Dia=42" and larger)
Downdrain, one-way	35'	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Wing Hdwl w/End Sct, Pipe (1"=50' or smaller) (Dia=36" and smaller) ·
Downdrain, two-way		بن ^ل م 	"L" Hdwl w/End Sct, Pipe (l"=20') (All Dia)
	35'	Ĭ.	"L" Hdwl w/End Sct, Pipe (l"=50' or smaller) (Dia=42" and larger)
Manhole	۲	\bigcirc	"L" Hdwl w/End Sct, Pipe (1"=50' or smaller) (Dia=36" and smaller)
Manhole, Frame & Cover, Reset	۲		Pipe Ext W/End Sct & Berm (1"=20') (All Dia)
Retaining Wall			
Rock Riprap	<u> 306 306 306</u>		Pipe Ext W/End Sct & Berm (1"=20') (1"=50' or smaller (Dia=42" and larg
Spillway, one-way	35'		Pipe Ext W/End Sct & Berm (1"=20') (1"=50' or smaller (Dia=36" and sma
Spillway, two-way	35'		Pipe Ext W/End Sct Roadway Widening (1=20)
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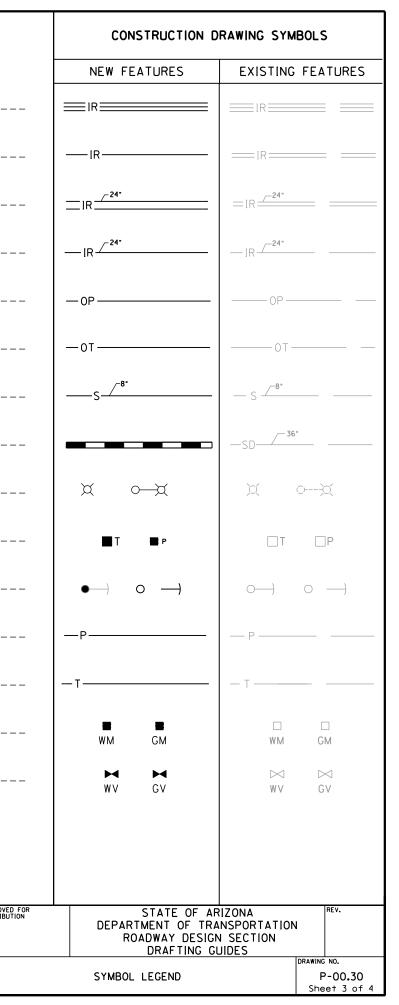
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	CONSTRUCTION D	RAWING SYMBOLS	
	NEW FEATURES	EXISTING FEATURES	
Plan View, Bituminous Pavement			Irrigation Ditch, Concrete
Plan View, Concrete Pavement			Irrigation Ditch, Earth
Plan View, Graded Surface			Irrigation Line (1"=20')
Plan View, Obliterate Pavement			Irrigation Line (1"=100')
Plan View, Wood	57777		Overhead Power/Joint-Use Line
Section, Asphaltic Concrete Friction Course			Overhead Telephone Line
Section, Bituminous Pavement			Sanitary Sewer (1*=100')
Section, Concrete			Storm Drain (1"=100')
Section, Metal			Street Light and with Mast Arm
Section, Wood			Telephone/Power Pedestal
Section, Aggregate Base			Utility Pole with Down Guy and Anchor
Section, Groundline			Underground Power/Joint-Use Line
Groundline Profile			Underground Telephone Line
Barbed Wire Fence & Gate		XXXXXXXXX	Water/Gas Meter Box
Chain Link Fence & Gate		-00	Water/Gas Valve
Guardrail & Flared End Terminal	Prer	Donana	
Guardrail & Tangent End Terminal	▶ •••••		
Gas Line	G	6	APPROVEC DISTRIBUT

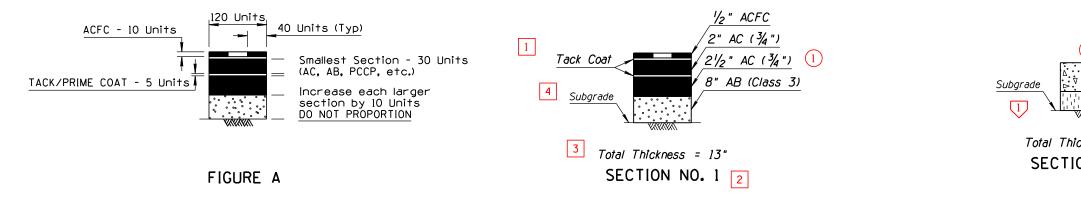
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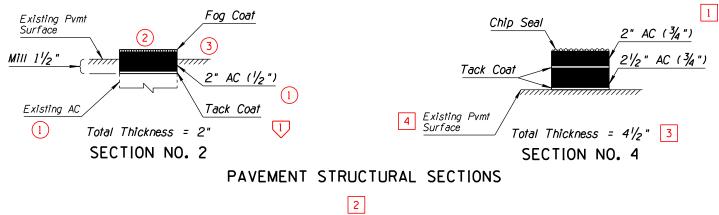
	CONSTRUCTION	DRAWING SYMBOLS		CONSTRUCTION	DRAWING SYMBOLS
	NEW FEATURES	EXISTING FEATURES		NEW FEATURES	EXISTING FEATURES
Water Line		8*	Block Wall (1"=20')		
Drainage Channel			Median Barrier		
Drainage Ditch	Drainage Ditch	Drainage Ditch	Fire Hydrant	FH	FH
Major Wash		NAME	Standpipe		⊖ SP
Minor Wash			Transmission Tower		
€ Grade, Profile			Windmill		Å
Hedge			Mail Box		
Palm Tree		and the second	Flag Pole		N
Shrubbery					
Unclassified Tree		Ę	North Arrow		
Sign, Single Post	•	þ			
Sign, Multiple Post	•	0			
1999년 월 1 Dimensions 월 1 월					
Visible Outlines, Sections, etc					
index Contour Line	8650				
Intermediate Contour Line					
065CR#PT104			APPROVED FOR DISTRIBUTION	J STATE OF A DEPARTMENT OF TR ROADWAY DESIC DRAFTING (ANSPORTATION SN SECTION
2				SYMBOL LEGEND	DRAWING NO. P-00.30 Sheet 4 of 4

Γ					С	ADD TE	XT PA	RAMETERS					
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	1	18	23	17.5	4	8.75	LB						
	2	54	1	22	6	11	СВ						
	3	18	23	17.5	4	8.75	СВ						
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	2	17	3	0									
	3	17	1	0									
									-		USER NOTES		
									Reference No. 🗸		Com	ments	
										See Stds P-00.60 & P-00.61 for	Dimension & Le	ader Line Layout	
╟									-				
<u>-</u>]	1										
											APPROVED FOR		REV.
	Abbreviations: LV CC FT TX W1 LS TJ	/ - LEVEL D - COLOR T - FONT K - TEXT S	ZE			-		rence Callout Units of Measure for 'TX=' and 'L using ADOT's Standard Working Ur	S=' are expressed in its	feet, (scale - 1"=100')	APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATIO ROADWAY DESIGN SECTION DRAFTING GUIDES	N
	W1 LS TJ	I - LINE WE 5 - LINE SP J - TEXT JU	IGHT ACING JSTIFIC	ATION	\bigtriangledown) - Use	r Note	Reference Callout			PAV	EMENT STRUCTURAL SECTION AYOUT & CONSTRUCTION	DRAWING NO. P-00.40 Sheet 1 of 2



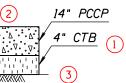
DRAFTING NOTES

- Pavement structural sections for AC should be filled in a) by placing a shape with an opaque area fill. This will produce a blackened shape when plotted.
- The various lifts shown in the pavement structural sections are not drawn to scale. Example: 2" AC & 16" AB Draw the 2" AC lift 30 units tall and the 16" AB 40 units tall. Use FIGURE A as a guide. Ь)
- The note "Pavement lift thickness is 'nominal' ", when applicable, should be placed in the General Notes on the C) design sheet.
- If the AC removal is to be a known milling operation, the callout_should be "Mill". Otherwise, the callout d) should be "Remove".
- Symbols for bases and subbases, such as AB and CTB, are created by randomly placing the respective cell as shown in Sections No. 1 and 3. e)



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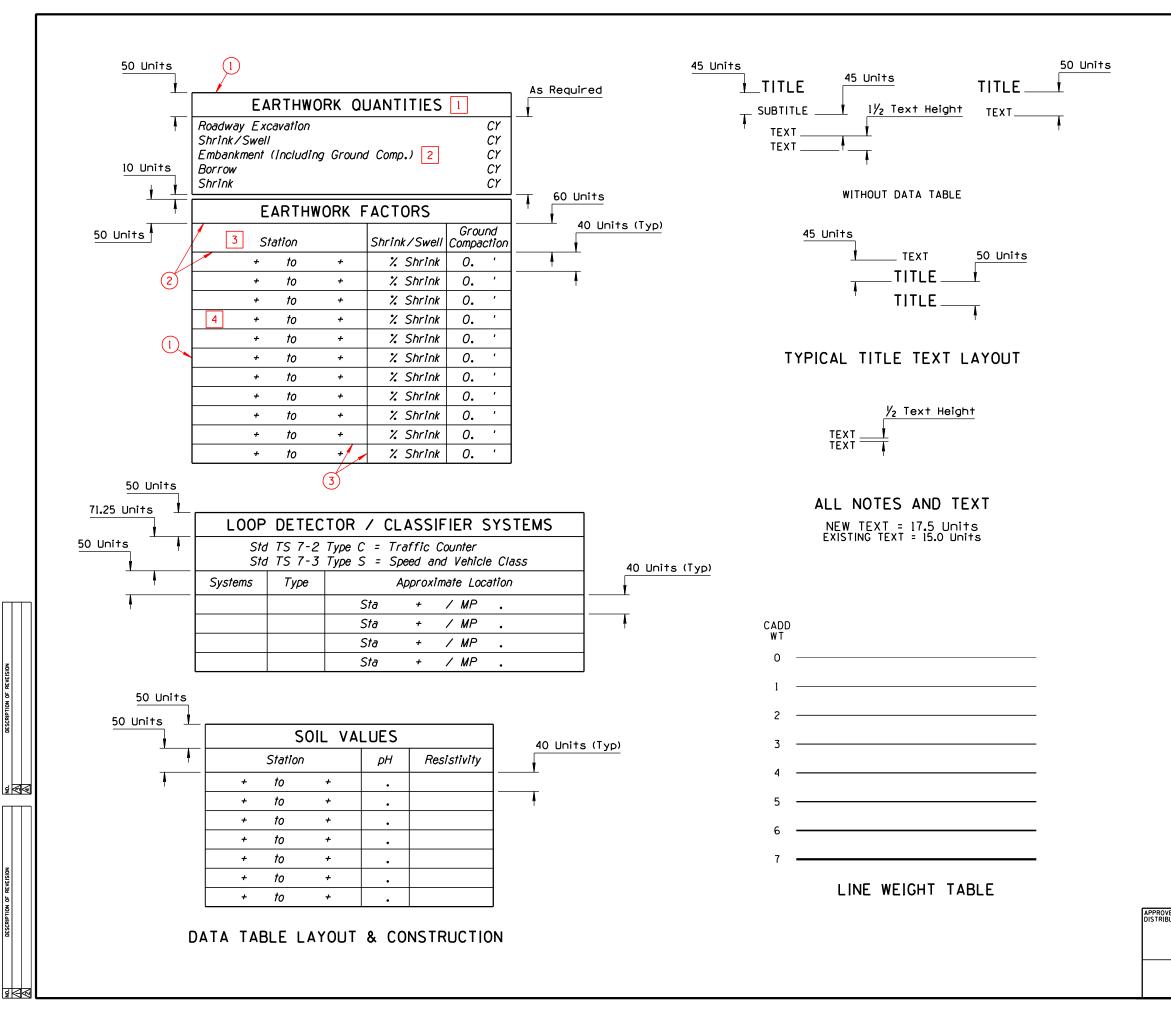


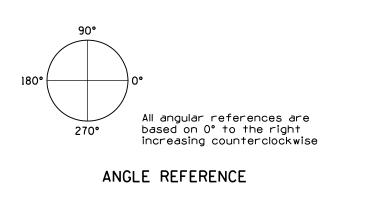
Total Thickness = 18" SECTION NO. 3

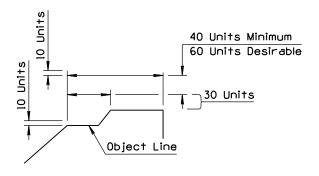
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	ROADWAY DESIGN SECTION		
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		She	et 2 of 2

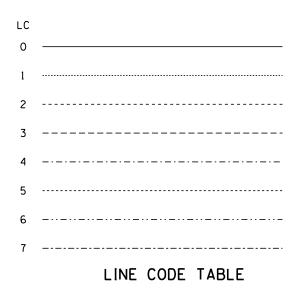
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2	WT LS TJ	F - LINE WE F - LINE SP F - TEXT JL	IGHT ACING ISTIFIC	ATION	∇			Reference Callout			DATA	TABLE & DIMENSION LAYOUT LINE WEIGHTS & CODES	DRAWING NO. P-00.60 Sheet 1 of 2







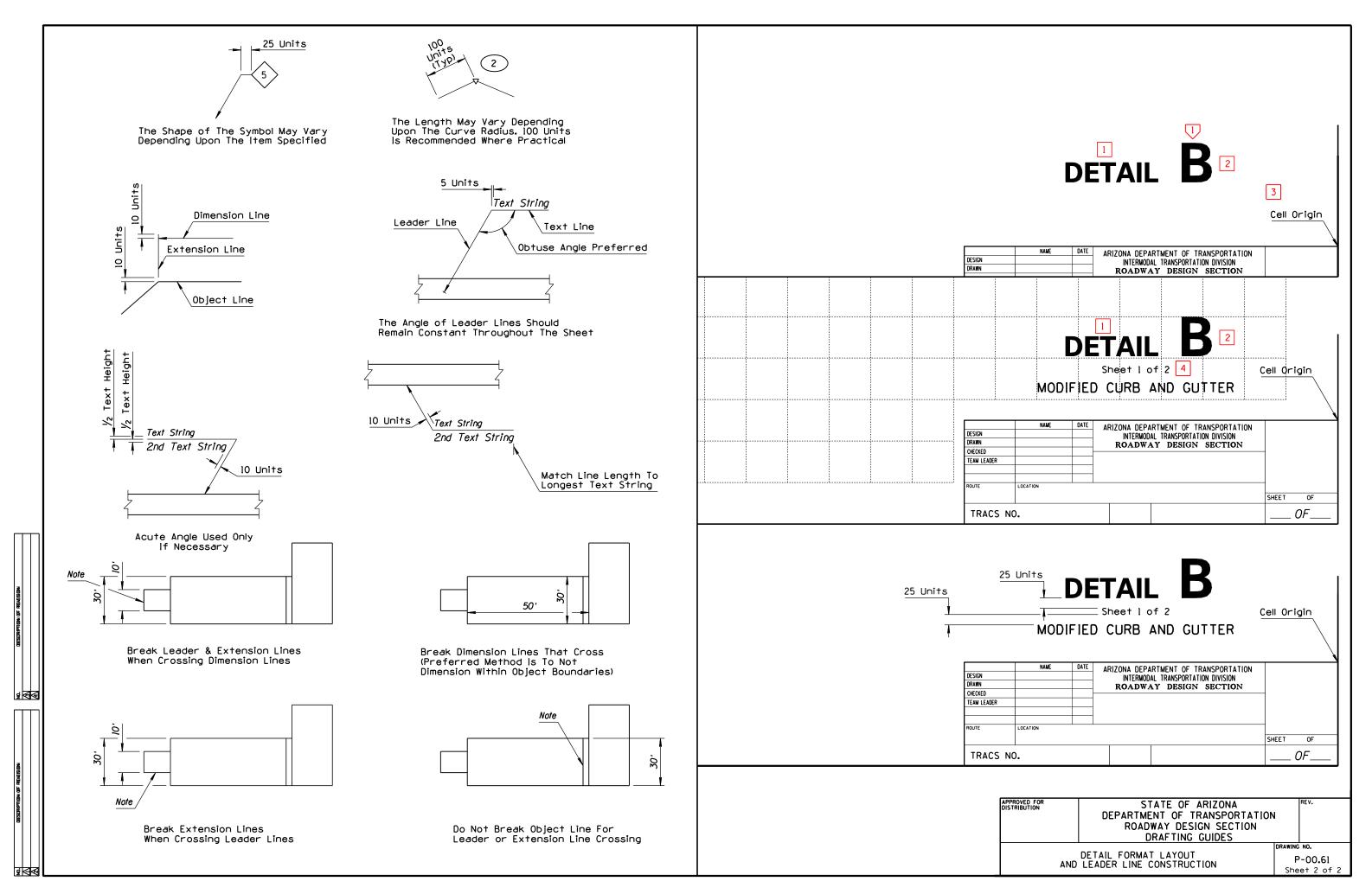
DIMENSION LAYOUT



D FOR TION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
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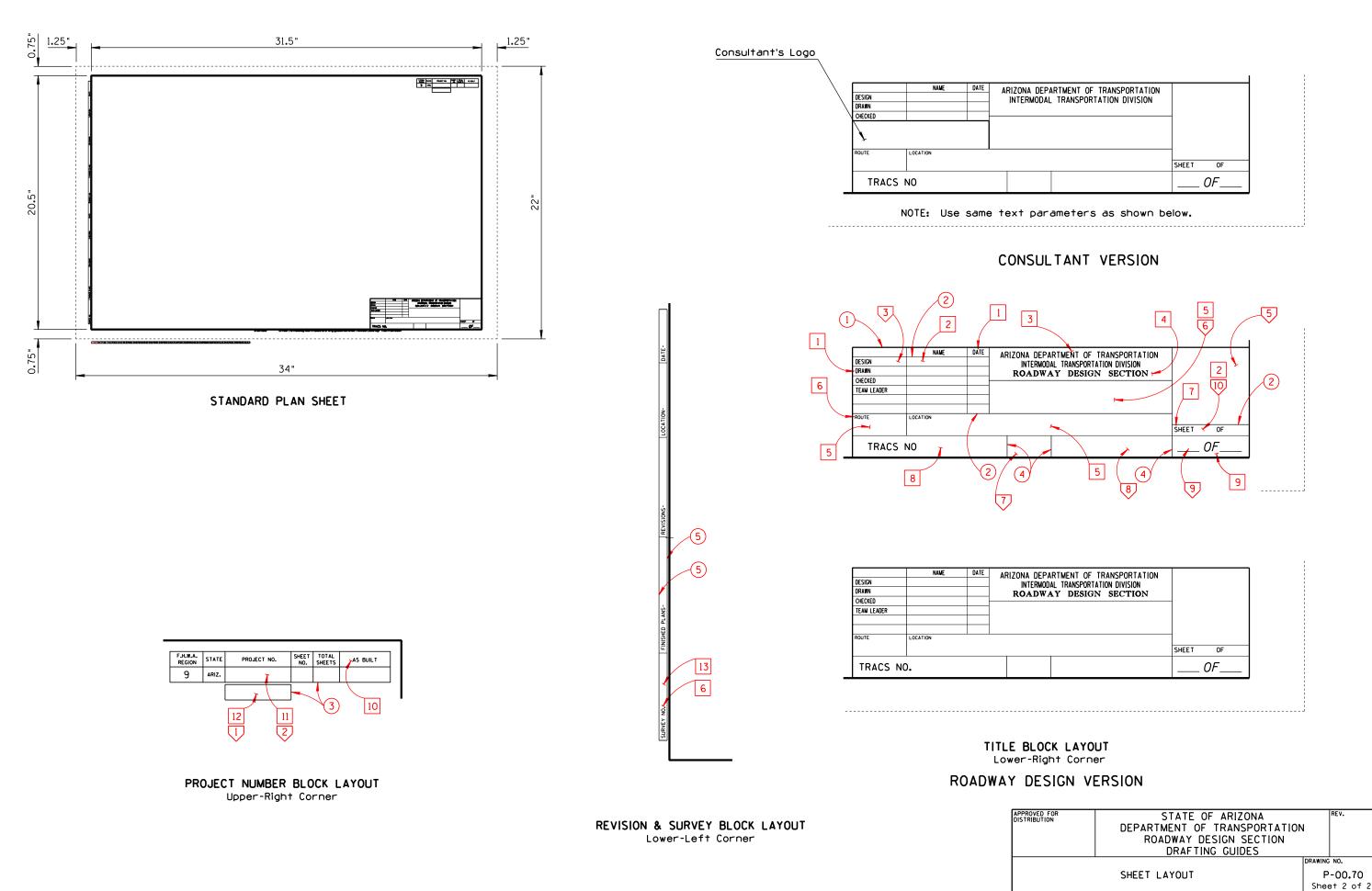
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	1	54	30	50	0	-	LB					
	2	54	30	100	0	-	LB					
	3	54	1	22	6	11	СВ					
	4	54	1	15	4	-	СВ					
	5	14	1	15	2	-	СВ					
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8		WT - LINE WI LS - LINE SF TJ - TEXT J	EIGHT PACING USTIFIC	ATION	$\overline{\bigtriangledown}$) - Us	ser Note	Reference Callout			DETAIL FORMAT LAYOUT	с NO. Р-00.61 eet 1 of 2



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3	3)	63	2	0								
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(5	5)	63	1	0								
6	5)	60	1	1								
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										ADOT Prefix Number (Route, Cour	nty & Milepost, for ex: 087 Gl 202)	
									2	When using cell, the project nur	mber (for ex: F-035-1(8)) may require a reduction i	n text size
									3	Optional initial area		
									4	To place grid overlay, place cell	l origin at center of plan sheet	
									5	Registrant Seal		
									6	Sheet Description		
									<u></u>	County Number after job has g	jone to bid	
									8	Project Number after job has o	gone to bid	
									9	Total of sheets filed after job	has gone to bid	
									U.		ence each sheet as shown in the INDEX OF SHEETS.	
Abbrevia	ations: L (F 1 v	V - LEVEL CO - COLOR T - FONT TX - TEXT S VT - LINE WE	IZE FIGHT		Č) - Gra	aphic R	rence Callout Units of measure for 'TX=' and 'L using ADOT's Standard Working Ur	.S=' are expressed in its	feet, (scale - 1"=100')	APPROVED FOR DISTRIBUTION DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
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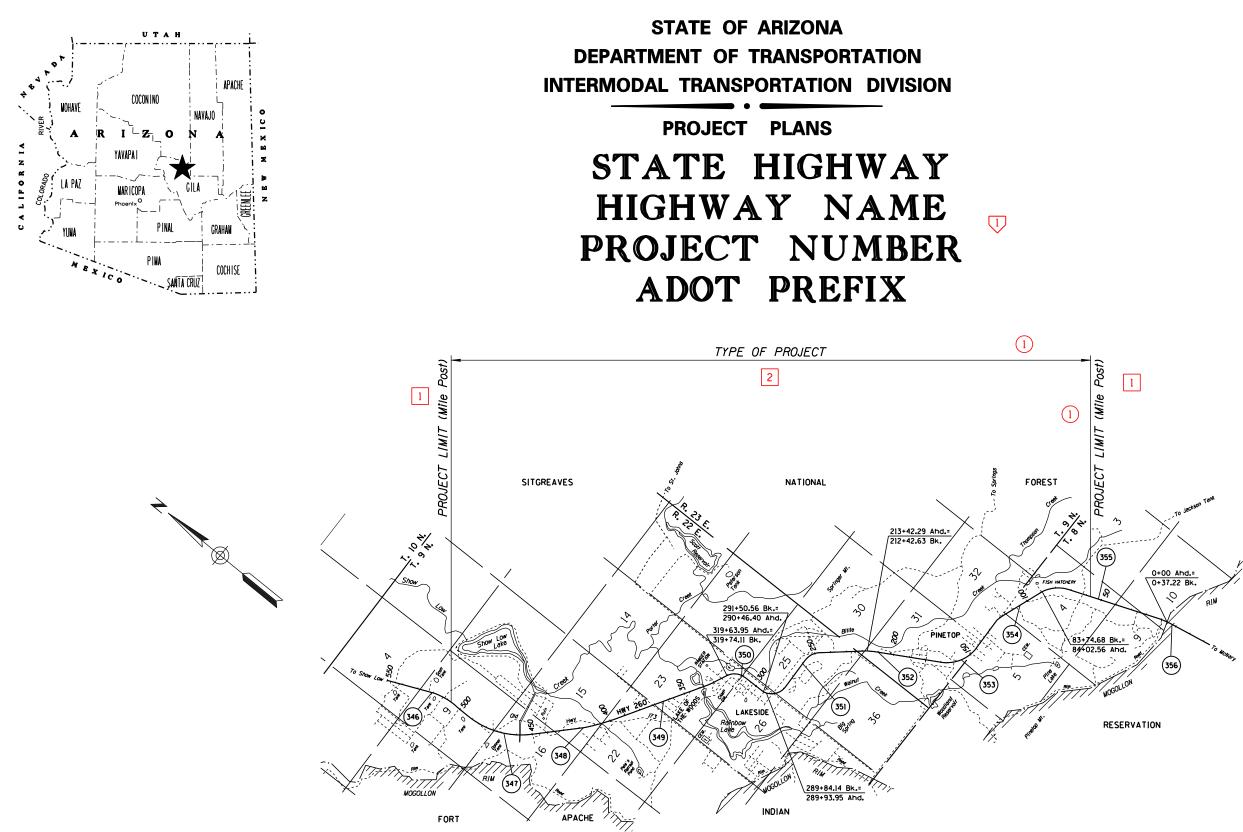
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P-00.70 STD

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			•	1	0	Φ _{ĹŶ}	/C0 of	the te	mension Lines and Line Terminators shall match the ext placed for that item					
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									_		Face Sheet creation is availabl	e from the AD	OT Roadway Design MicroStation menu	
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ন্থ		TX - T WT - L LS - L TJ - T	INE SPA	ACING STIFIC	TION		- Use	Note	Reference Callout				DRAWING NO. SAMPLE FACE SHEET P-01. Sheet 1	1.10



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PROJECT LOCATION



Constructed by:

Construction Company

Completion Date

Red-Lines by:

Construction Administrator Name & Compan

Completion Date

As-Built by:

As-Built Designer Name & Company

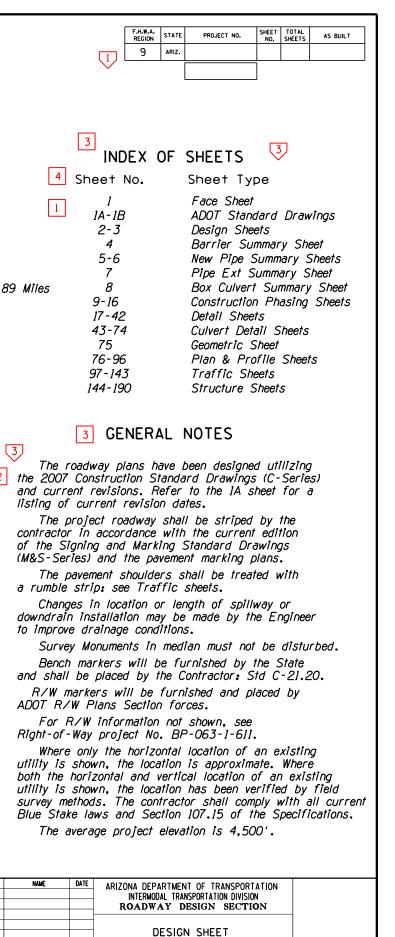
Completion Date

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

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	1	55	23	17.5	4	12.5	LB	TJ is LB unless otherwise shown					
	2	55	23	17.5	4	8.75	LB	Line spacing between notes shall be 17.5 units					
	3	54	1	22	6	-	СВ						
	4	55	1	17.5	4	-	СВ						
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										See Std P-00.70 for Title Block			
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∢									3	See Std P-00.60 for Text Layou	J†		
	NOTE : For proj	ect related	sheet	s, see	Stand	ards P	-02.15 8	k P-06.10					
	NOTE : Design D	ata, Index o	f Shee	ets, Mi	d-point	of Pr	oject,	and General Notes are to be positioned as shown					
	NOTE : Design D	LV - LEVEL				1 -		Lipits of Measure for 'TY-' and ""		feet (scale - 1"=100')	APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATIO	REV.
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		WT - LINE WE LS - LINE SP	IGHT ACING		\sim			Reference Callout			SAMP	LE DESIGN SHEET FOR RURAL DIVIDED ROADWAY	DRAWING NO. P-02.10
2		TJ - TEXT JU	JSTIFIC	ATION								DIVIDED ROADWAY	P-02.10 Sheet 1 of 2

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ns]	· · · · · · · · · · · · · · · · · · ·	ORK QUANTITIES			CUT SLOPE EX		ΝΤΔΒΙΕ		FILL	SLOPE EX		Ν ΤΔ	BLE	
	Roadway Excavation		52,270 CY		Station	Side	Slope Conti	rol		ntion	Side	1	pe Control	
DATE	Shrink Embankment (Includir Waste	ng Ground Comp.) 1,18	9,871 CY 85,625 CY 56,774 CY		3 + 00 to 1479 + 5 9 + 50 to 1515 + 2		4:1 6:1 (Daylight)			to 1515 + 25 to 1542 + 50	Left Left	4:1 4:1	·	_
		VORK FACTORS			37 + 75 to 1542 + 5	-	4:1			to 164 + 25		4:1 -	6:1	
CATION-			Ground		16 + 25 to 1630 + 2		3:1			to 1472 + 25	-	2:1		
L0	Station	Shrink/Swell			3 + 50 to 162 + 3 5 + 50 to 1472 + 2		6:1 (Daylight) 3:1			to 1525 + 75 to 1528 + 75	Both Both	6:1	· C-02.10	
	NB 1441 + 84 10 14 NB 1485 + 25 to 14	185 + 25 15% Shrink 194 + 62 10% Shrink			5 + 75 to 1510 + 5		4:1			to 175 + 25		4:1	- 1-02.10	
		542 + 42 15% Shrink	0.10 '		5 + 25 to 1530 + 2		6:1 (Daylight)							
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REVISIO	NB 139 + 78 to 1		0.20'					Г	2]					
	SB 1442 + 00 to 15 SB 1507 + 54 to 15		0.20'						2					
	SB 1568 + 09 to 15		0.20'				SOIL V	/ALUES						
		511 + 32 15% Shrink	0.20'		Station	pН	Resistivity	Station	pН	Resistivity				
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SHED PI	SB 125 + 89 to 1	180 + 70 Even	0.15 '		SB 1482 + 50		820	NB 1496 + 25	8.0	760				
FIN					SB 1495 + 00		520	NB 1530 + 32	7.4	1280				
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STD P-02.10

SHEET 2 OF 2

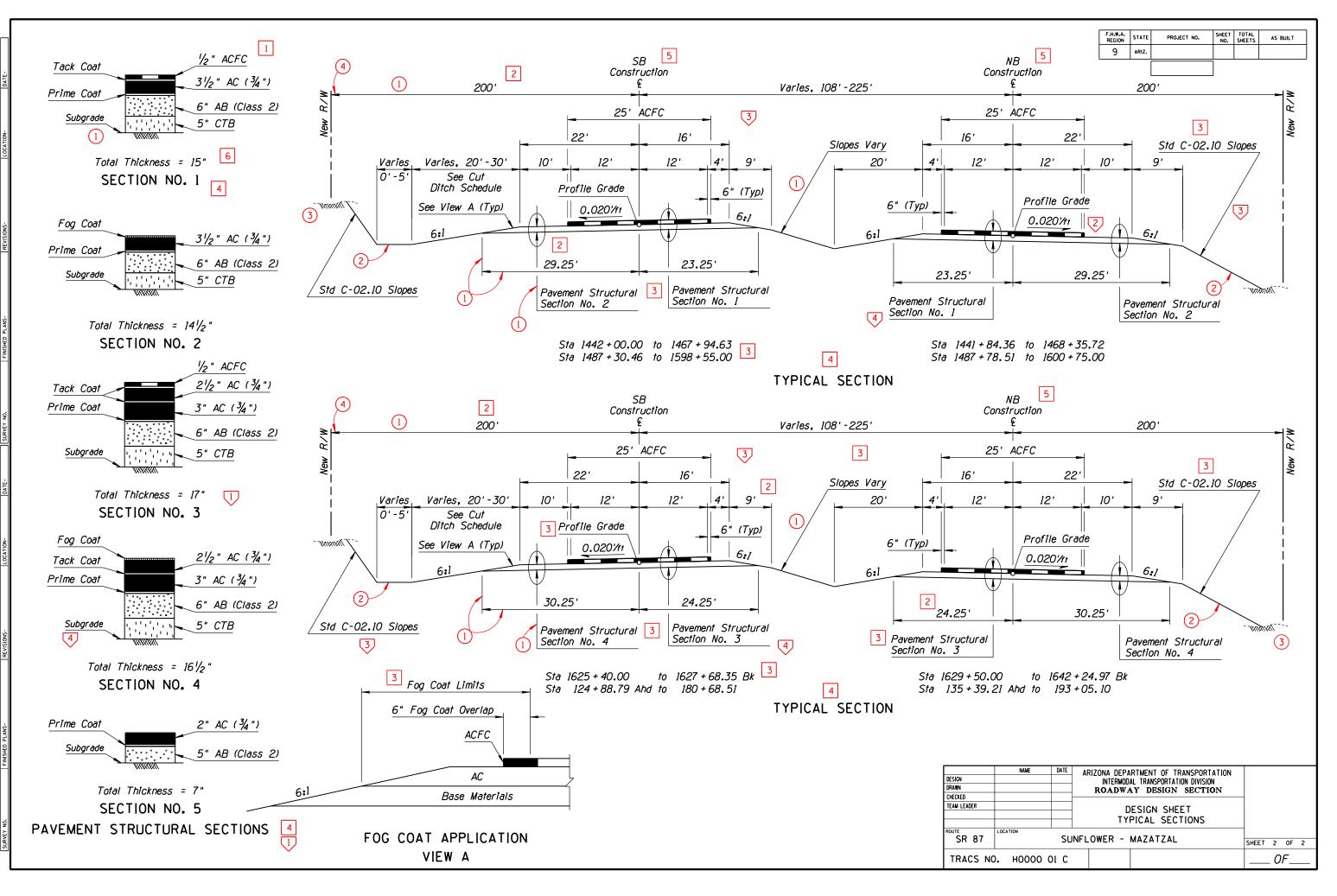
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				C	ADD TE	XT PA	RAMETERS			
Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments			
1	18	23	17.5	4	8.75	LB				
2	25	23	17.5	4	8.75	СВ	TJ is CB unless otherwise shown			
3	21	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown			
4	54	1	22	6	22	СВ				
5	21	23	17.5	4	8.75	СВ				
6	18	23	17.5	4	8.75	СВ				
								1		
					GRAPHI	C PAR	AMETERS			
Reference No. (LV/CO=	W T =	LC=		-		Comments			
	•	1	0	• Dim pla	ced fo	or Le r that	ader Line LV/CO shall match the LV/CO of the text item			
2	20	3	0							
3	59	1	5							
4	-	-	-	ADOT of t	Stand he tex	ard Lir † place	e Terminator; typical.LV/CO shall match the LV/CO d for that item			
										JSER
								Reference No.	See Std D 0040 fee Deveneet	C +
									See Std P-00.40 for Pavement	
								2	Show roadway cross slope in fe	
								3	See Stds P-00.60 & P-00.61 for	
								4	Line shall stop at end of longe	st te
NOTE : For proj	ect related	sheet	s, see	Stando	ards P-	02.10 8	P-06.10			
Abbreviations:	LV - LEVEL				-		rence Callout Units of Measure for 'TX=' and 'L	S=' are evoressed in t	eet (scale - 1"=100")	APPROVI DISTRIBI
	FT - FONT	17F					rence Callout Units of Measure for 'TX=' and 'L using ADOT's Standard Working Ur ference Callout	nits	001, 130010 I -1007	
Abbreviations:	WT - LINE WE						Reference Callout			
	TJ - TEXT JU	JSTIFIC	ATION	~						

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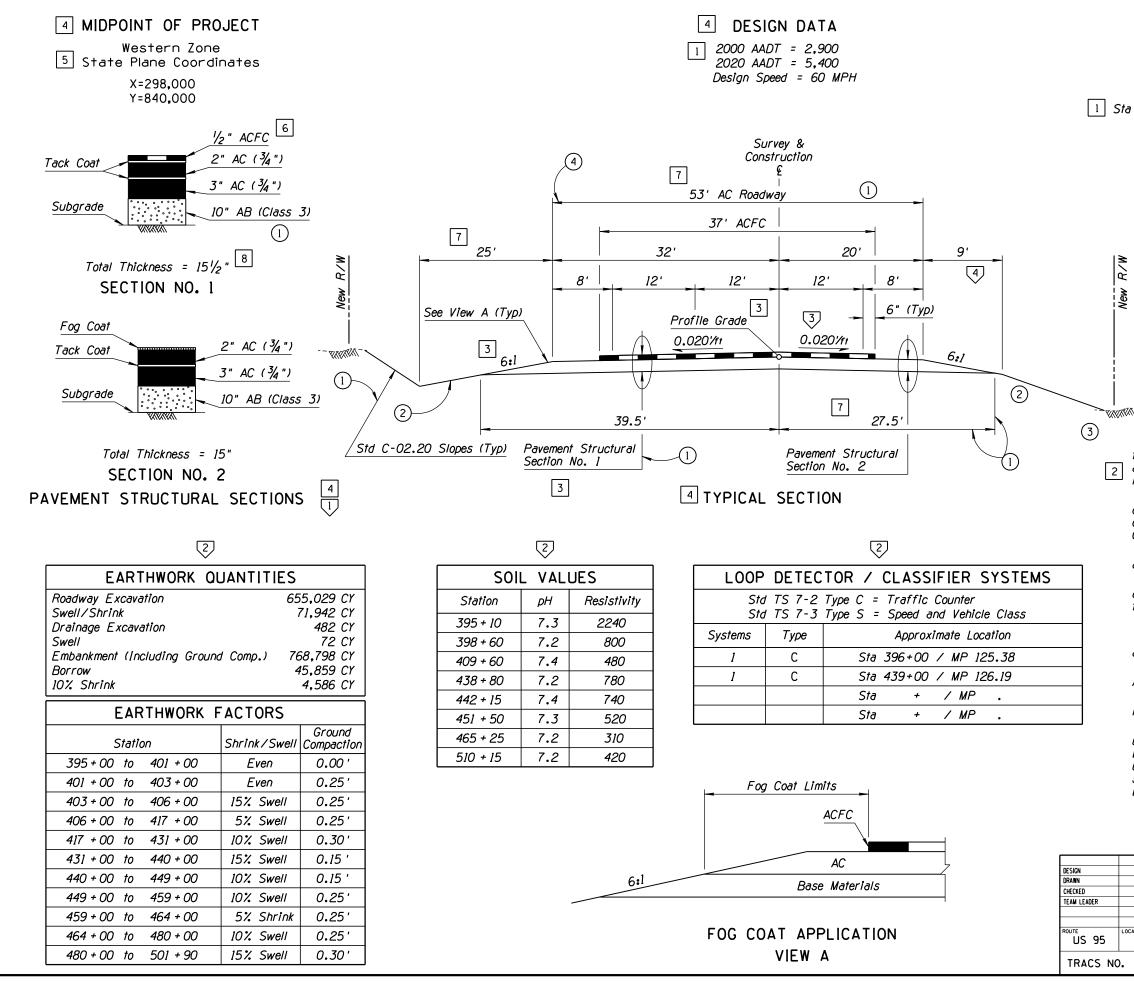
Comments ctural Section Layout & Construction er foot to 3 decimal places nsion & Leader Line Layout ext string ED FOR STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES REV. DRAWING NO. SAMPLE TYPICAL SECTION SHEET FOR RURAL DIVIDED ROADWAY P-02.15

Sheet 1 of 2



STD P-02.15

					С	ADD TE	XT PA	RAMETERS			
	Reference No.	LV/CO=	FT=	TX:	= wT=	LS=	TJ=	Comments			
		55	23	17.9		12.5	СВ	TJ is CB unless otherwise shown			
	2	55	23	17.9		8.75	LB	Line spacing between notes shall be 17.5 units			
	3	21	23	17.9		8.75	СВ	TJ is CB unless otherwise shown			
	4	54	1	22	6	11	СВ				
	5	55	1	17.9	5 4	12.5	СВ				
	6	18	23	17.9	5 4	8.75	LB				
	7	25	23	17.9	5 4	8.75	СВ				
	8	18	23	17.5	5 4	8.75	СВ				
						GRAPHI	C PAR	AMETERS			
	Reference No.) LV/CO=	wт-	LC	-			Comments			
		0	1	0		nension	or Le	ader Line LV/CO shall match the LV/CO of the text item			
	2	20	3	0		iced to	r that	item			
	3	59	1	5							
	(4)	_	-	-		Stand	ard Lir	e Terminator; typical.LV/CO shall match the LV/CO d for that item			
										L	ISER NOTES
									Reference No. 📿		Comments
											Structural Section Layout & Construction
ন্থিৰ									2	See Std P-00.60 for Data Table	
									3		eet per foot to 3 decimal places
									4	See Stds P-00.60 & P-00.61 for	Dimension & Leader Line Layout
	NOTE . For oralist	+ ~~~~~~	chool		o C+		07.20				
	NOTE : For project		sneet	s, se	e stand	ar us P-	.01.20,	F-01.21 & F-00.20			APPROVED FOR STATE OF ARIZONA REV.
	Abbreviations: LV CO	- LEVEL - COLOR - FONT				- Tex	t Refe	rence Callout Units of Measure for 'TX=' and 'L using ADOT's Standard Working Ur	S=' are expressed in ·	feet, (scale - 1"=100')	DEPARTMENT OF TRANSPORTATION
		- FUNI - TEXT SI - LINF WF	ZE		Ē			ference Callout	113		ROADWAY DESIGN SECTION DRAFTING GUIDES
୶ଵ	LS TJ	- TEXT SI - LINE WE - LINE SP - TEXT JL	ACING ISTIFIC	ATION	\checkmark	- Usei	- Note	Reference Callout			SAMPLE DESIGN SHEET FOR RURAL UNDIVIDED ROADWAY P-02.20 Sheet 1 of 2

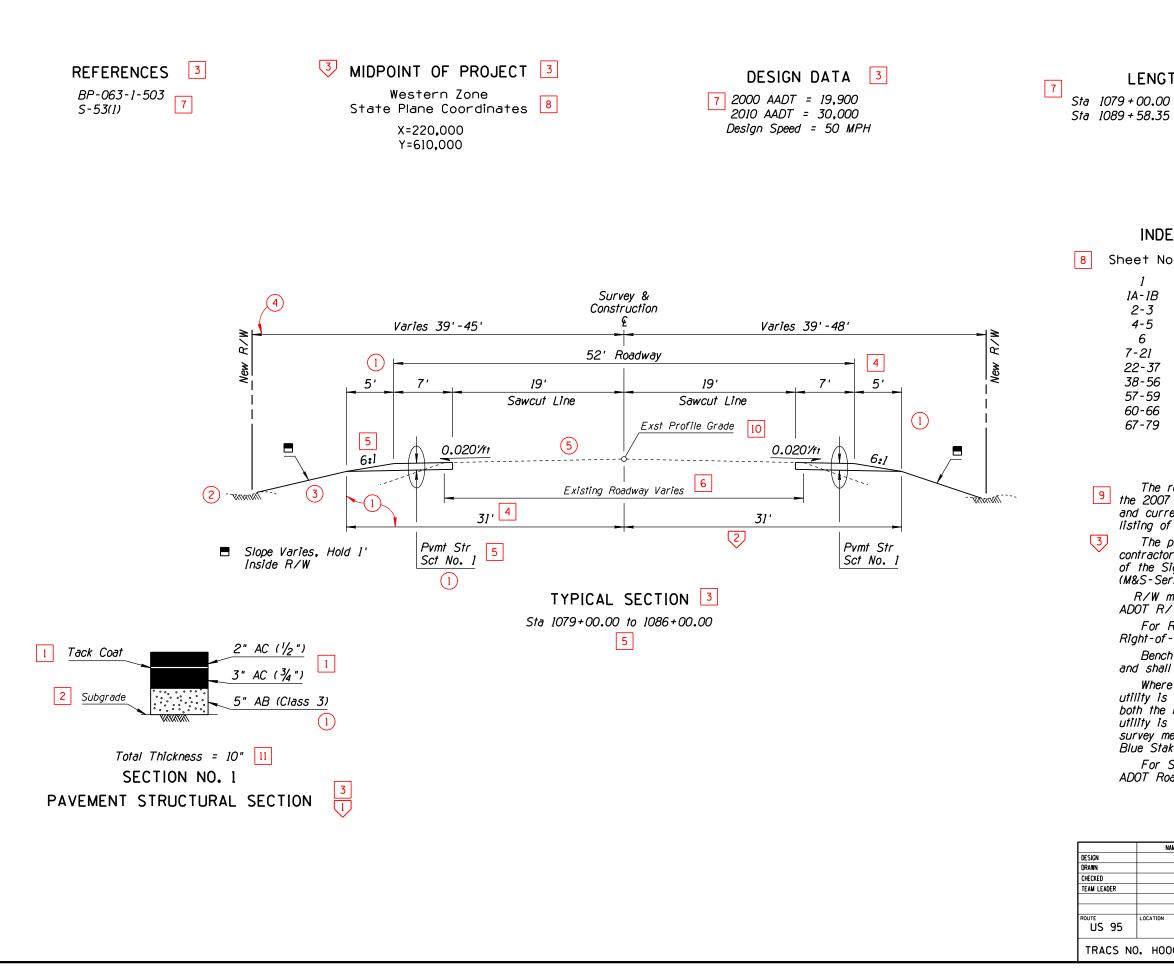


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5			OF	SHEETS			
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1	1 1A-1B 2-5 6-7 8 9 10-15 16-25 26-28 29-44 45-61 62-63			Face Sheel ADOT Stan Design She Barrier Su New Pipe 3 Box Culver Detail Shee Culvert Det Constructio Plan & Pro Traffic Sh Structure 3	dard ets mmar Summ t Sui ts ail S ail S n Ph ofile eets	ry She hary S mmary Sheets asing Sheet	eets Sheet Sheet Sheets
KV [4 GE	NER		NOTES			
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-				an must no			rbed.
and shall l	be placed	1 by t	he C	rnished by ontractor: S	Std C	-21.2	20.
ADOT R/W	' Plans S	Section	n for			IJУ	
Right-of-W	lay proje	ect No	. F-	shown, see 063-2-311.			_
utility is s both the he utility is s survey met Blue Stake	hown, th orizontal hown, th hods. Th laws ar	ne locă and v ne locă ne coni nd Sec	ntion vertic ntion tracto tracto	location of is approxim al location has been ve or shall con 107.15 of 1 tion is 4,50	nate. of ar erifie nply w the S	Where n exis ed by with a	e sting field all current
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NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION								
		DESIGN SHEET								
	OSBORN WASH - NORTH (UNIT II)									
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STD P-02.20

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					C.	EXT PARAMETERS				
	Reference No.	LV/CO=	FT=	TX=	WT=	TJ= Comments				
	1	18	23	17.5	3	LB TJ is LB unless otherwise shown				
	2	18	23	15	2	LB				
	3	54	1	22	6	СВ				
	4	25	23	17.5	4	СВ				
	5	21	23	17.5	4	LB TJ is LB unless otherwise shown				
	6	25	23	15	2	СВ				
	7	55	23	17.5	4	LB TJ is LB unless otherwise shown				
	8	55	1	17.5	4	СВ				
	9	55	23	17.5	4	LB Line spacing between notes shall be 17.5 units				
	10	21	23	15	2	LB				
	11	18	23	17.5	4	СВ				
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						IIC PARAMETERS				
ſ	Reference No.) LV/CO=	WT=	LC=		Comments				
		0	1	0	• Din pla	n or Leader Line LV/CO shall match the LV/CO of the text or that item				
	2	59	1	5						
ון	3	20	3	0						
	4	-	-	-	ADOT of t	dard Line Terminator; typical.LV/CO shall match the LV/CO xt placed for that item				
	5	20	1	2						
							USER NO	DIES		
						Reference No.		Comments		
						See Std P-00.40 for Pavem	nt Structu	ral Section Layout & Cons	truction	
						Image: See Stds P-00.60 & P-00.61	for Dimensi	on & Leader Line Layout		
						3 See Std P-00.60 for Text I	ayou†			
	NOTE: For projec	t related	sheet	s, see	Standa	P-02.31, P-07.30, P-08.30, P-12.20, & P-13.20				
ľ	Abbreviations: LV	- LEVEL					APPROVED F DISTRIBUTIO			REV.
	Abbreviations: LV CO FT	- COLOR - FONT				<pre>kt Reference Callout Units of Measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units</pre>		ROADWAY D	TRANSPORTATION	N
	TX WT	- TEXT S - LINE WE - LINE SP - TEXT JU				aphic Reference Callout			NG GUIDES	DRAWING NO.
ৰ	TJ	- TEXT JI	JSTIFIC	ATION	~			SAMPLE DESIGN SHEE FOR AN URBANIZED AF	REA	P-02.30 Sheet 1 of 2



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				

LENGTH OF PROJECT 3

Sta 1079 + 00.00 to 1089 + 59.40 Bk = 1,059.40' Sta 1089 + 58.35 Ahd to 1124 + 00.00 = 3,441.65' Gross & Net Length = 4,501.05' - 0.85 Mile Mile Post 19.70 to 20.55

3

INDEX OF SHEETS 3

et No.	Sheet Type
1	Face Sheet
A-1B	ADOT Standard Drawings 7
2-3	Design Sheets
4-5	New Pipe Summary Sheets
6	PSWP Summary Sheet
-21	Detail Sheets
2-37	Plan & Profile Sheets
8-56	Storm Drain Plan & Profile Sheets
7-59	PSWP Profile Sheets
0-66	Driveway Profile Sheets
7-79	Traffic Sheets

GENERAL NOTES 3

9 The roadway plans have been designed utilizing the 2007 Construction Standard Drawings (C-Series) and current revisions. Refer to the 1A sheet for a listing of current revision dates.

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

R/W markers will be furnished and placed by ADOT R/W Plans Section forces.

For R/W information not shown, see Right-of-Way project No. BP-063-1-611.

Bench markers will be furnished by the State and shall be placed by the Contractor: Std C-21.20.

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. For Superelevation information not shown, see

ADOT Roadway Design Guidelines (current edition).

NAME	DATE	INTERMOD	RTMENT OF TRANSPOR AL TRANSPORTATION DIVISIN AY DESIGN SECTI	ON							
	DESIGN SHEET										
LOCATION	32nd ST - 26th ST (YUMA)										
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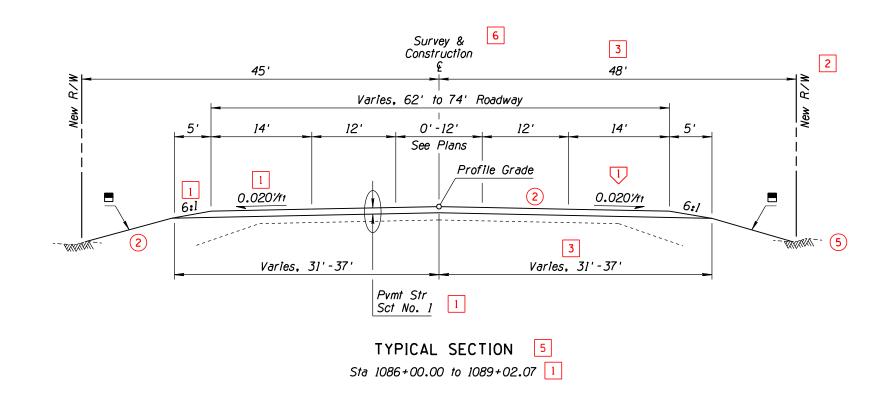
				C	ADD TE	XT PA	RAMETERS		
Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments		
1	21	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown		
2	30	23	17.5	4	8.75	RT	TJ is RT unless otherwise shown		
3	25	23	17.5	4	8.75	СВ			
4	45	23	17.5	4	8.75	LB			
5	54	1	22	6	11	СВ			
6	21	23	17.5	4	8.75	СВ			
					GRAPH	C PAR	AMETERS		
Reference No. (LV/CO=	WT=	LC=				Comments		
	•	1	0	● Dim pla	ension ced fo	or Lea r that	der Line LV/CO shall match the LV/CO of the text item		
2	20	3	0						
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4	-	-	-	ADOT of t	Stand he tex	ard Lir † place	e Terminator; typical.LV/CO shall match the LV/CO d for that item		
5	59	1	5						
								_	USER
								Reference No. 📿	
									Show roadway cross slope in feet p
								2	See Stds P-00.60 & P-00.61 for Dime
								_	
NOTE: For projec	ct related	sheets	, see S	Standa	rds P-(02 . 30, F	-07.30, P-08.30, P-12.20, & P-13.20		
Abbreviations: L	V - LEVEL								APPPO DISTRI
Abbreviations: L F T V L J	CO - COLOR	175					rence Callout Units of Measure for 'TX=' and ' using ADOT's Standard Working U	'LS=' are expressed in Inits	teet, (scale - 1"=100')
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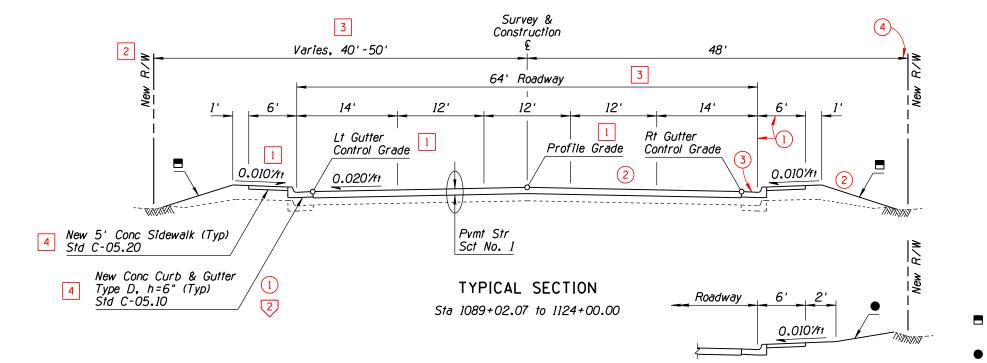
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Comments
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ED FOR
DEPARTMENT OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

DRAWING NO.
P-02.31
Sheet 1 of 2





Rt Sta 1091+50.00 to 1093+00.00

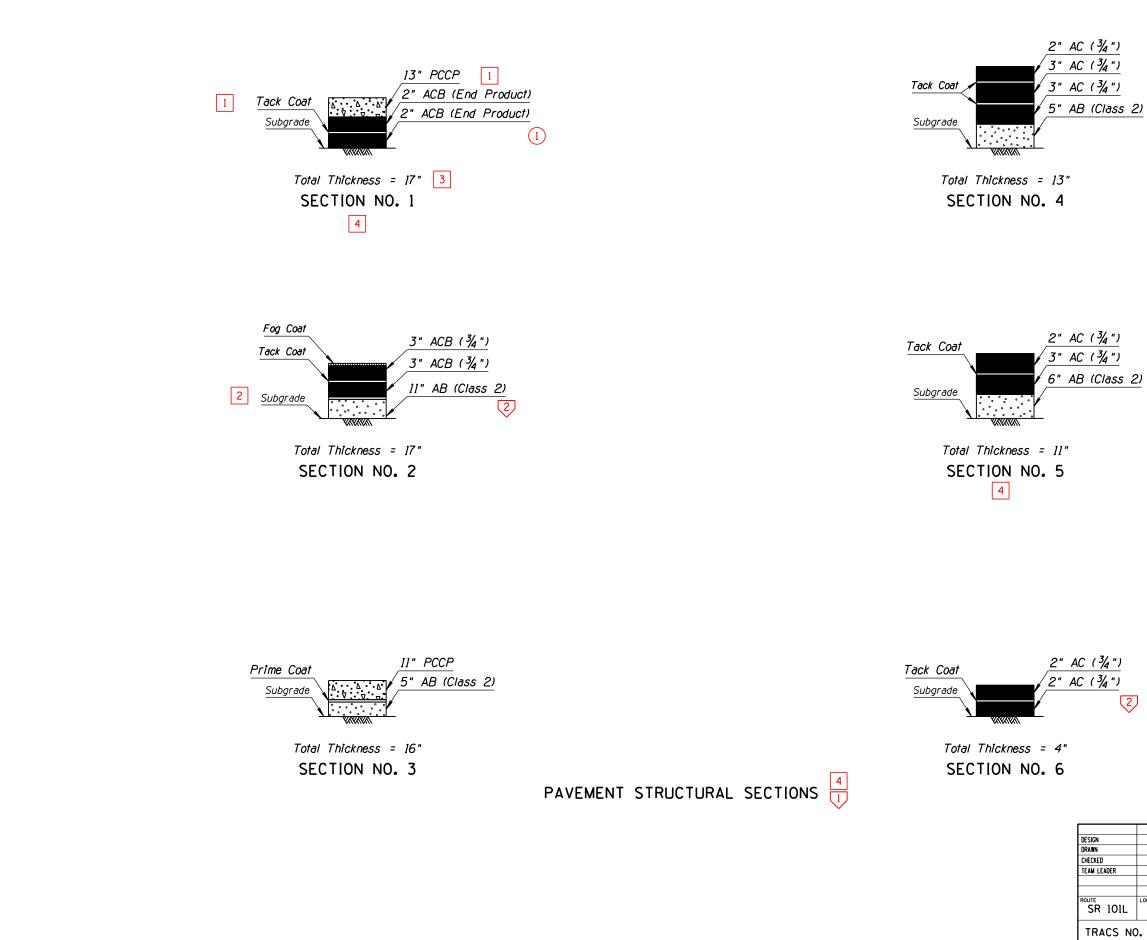
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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 Slope Varies, Hold 1' Inside R/W
 6:1 Slope or Hold 1' Inside R/W

	NAME	DATE	INTERMOD	RTMENT OF TRANSPORTATION AL TRANSPORTATION DIVISION AY DESIGN SECTION				
			DI TYP					
1	LOCATION	32nd	ST - 26+r	ST (YUMA)	SHEET	2	OF	2
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STD P-02.31

Γ					С	ADD TEXT PARAMETER	25					
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	1	18	23	17.5		8.75 LB		-				
	2	18	23	15	2	7.5 LB		-				
	3	18	23	17.5		8.75 CB		-				
	4	54	1	22	6	11 CB		-				
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						GRAPHIC PARAMETERS						
R	eference No.	LV/CO=	W T =	LC=			Comments					
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								-		USER NOTES		
								Reference No.		Com	ments	
									See Std P-00.40 for Pavement			
								2	See Std P-00.61 for Leader Lir		·	
₫												
N	OTE: For proje	ect related	sheets	, see	Standa	rds P-02.52, P-02.53, &	P-04.10					
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		WI - LINE WE LS - LINE SP TJ - TEXT JI	LIGHT PACING JSTIFIC	ATION	\bigtriangledown	- User Note Referenc	ce Callout			SAMPLE	PAVEMENT STRUCTURAL SECTIONS FOR URBAN FREEWAY	P-02.51 Sheet 1 of 2



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NAME	DATE	INTERMOD	RTMENT OF TRANSPORTATI AL TRANSPORTATION DIVISION AY DESIGN SECTION						
		-	DESIGN SHEET PAVEMENT STRUCTURAL SECTIONS						
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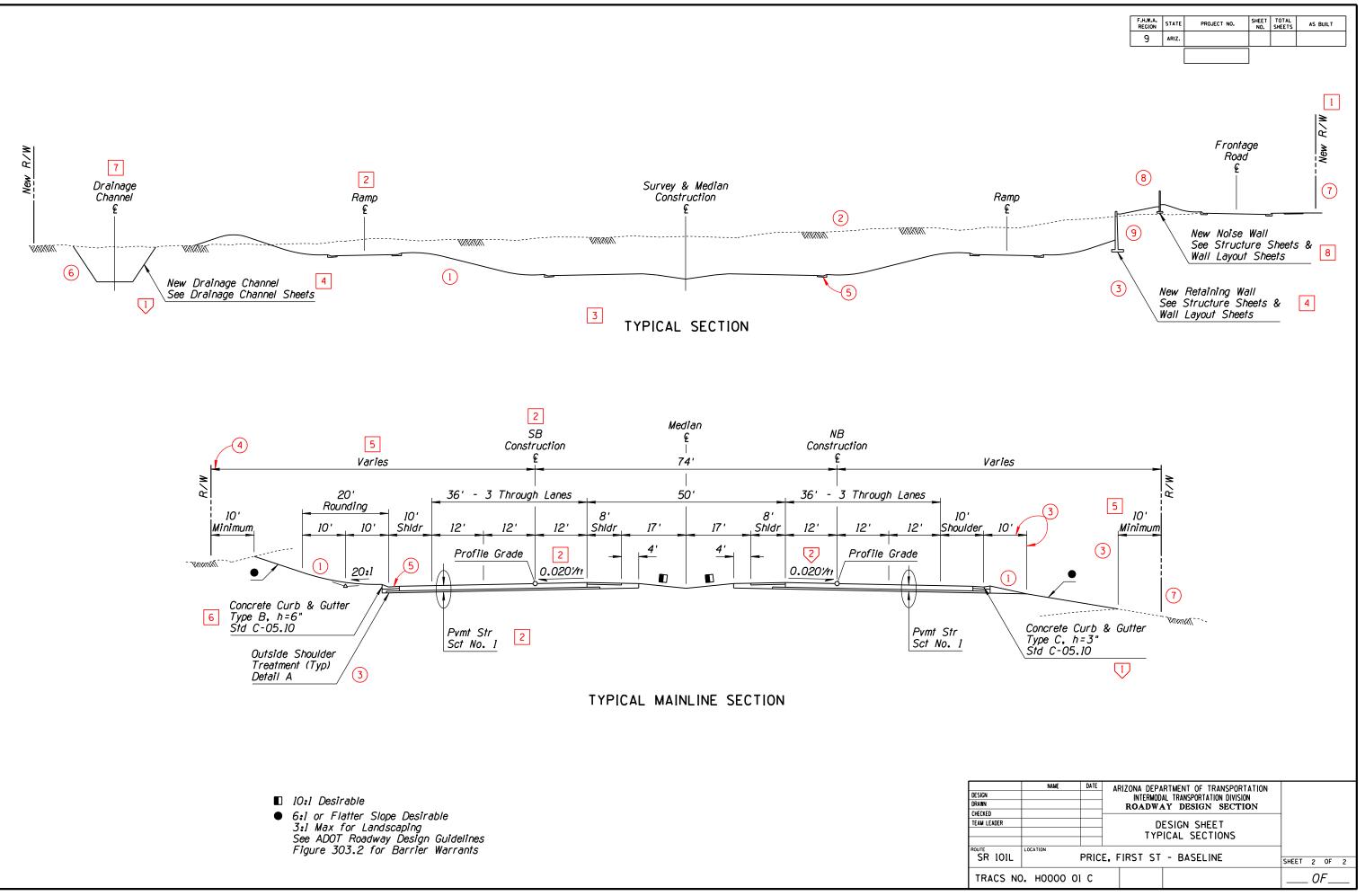
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Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	_	
1	30	23	17.5	4	8.75	RT	TJ is RT unless otherwise shown	1	
2	21	23	17.5	4	8.75	СВ	TJ is CB unless otherwise shown		
3	54	1	22	6	11	СВ			
4	39	23	17.5	4	8.75	LB			
5	25	23	17.5	4	8.75	СВ			
6	45	23	17.5	4	8.75	LB			
7	39	23	17.5	4	8.75	СВ			
8	43	23	17.5	4	8.75	LB			
	GRAPHIC PARAMETERS								
Reference No.	LV/CO=	W T =	LC=				Comments		
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5	44	3	0						
6	38	3	0						USER
7	30	4	-						
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9	48	3	0						See Std P-00.61 for Leader Line Layo
								2	Show roadway cross slope in feet pe
				•]	
NOTE: For proje	ct related	sheet	s, see	Stand	ards P-	02.51,	P-02.53, & P-04.10		
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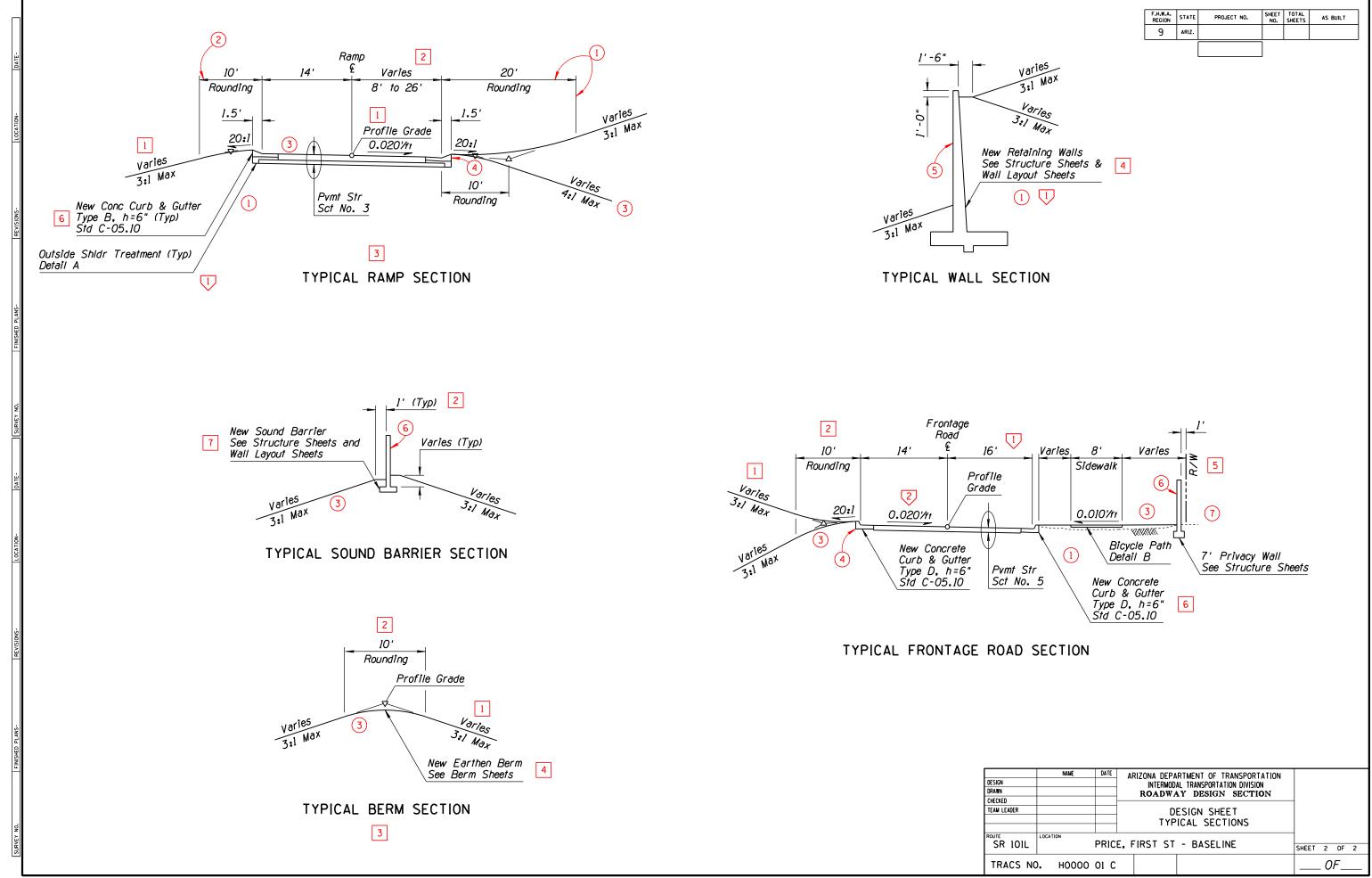
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DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

DRAWING NO.
P-02.52
Sheet 1 of 2



P-02.52 STD

					C.	ADD TE	XT PA	RAMETERS					
R	eference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments					
	1	21	23	17.5	4	8.75		TJ is LB unless otherwise shown					
	2	25	23	17.5	4	8.75	СВ	TJ is CB unless otherwise shown					
	3	54	1	22	6	11	СВ						
	4	39	23	17.5	4	8.75	LB						
	5	30	23	17.5	4	8.75	RT						
	6	45	23	17.5	4	8.75	LB						
	7	43	23	17.5	4	8.75	LB						
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						GRAPHI	C PAR	AMETERS					
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	4	44	3	0									
	5	48	3	0									
	6	42	3	0									
	(7)	59	1	5						1	ISER NOTES		
									Reference No.		Con	nments	
										See Stds P-00.60 & P-00.61 for	Dimension & Le	ader Line Layout	
									2	Show roadway cross slope in fe	et per foot t	o 3 decimal places	
			1	1	1								
N	OTE: For proj	ect related	sheet	s, see	Stand	ards P-	02.51,	P-02.52 & P-04.10					
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		WT - LINE WE	IGHT ACING		∇			Reference Callout				GAMPLE DESIGN SHEET FOR	DRAWING NO.
<u>ୟ</u>		TJ - TEXT JU	JSTIFIC	ATION								URBAN FREEWAY ROADWAY	P-02.53 Sheet 1 of 2



P-02.53 STD

			RAMETERS	XT PA	ADD TE	C/					
		Comments		TJ=	LS=	WT=	TX=	FT=	LV/CO=		eference No.
		erwise shown	TJ is CT unless othe	СТ	45	4	15	1	58		1
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feet, (scale - 1"=100')	S=' are expressed in f its	Units of Measure for 'TX=' and 'LS using ADOT's Standard Working Un	rence Callout					75	- COLOR - FONT	CO - FT -	Abbreviations
			ference Callout Reference Callout						- TEXT SI - LINE WE - LINE SP - TEXT JL	WT -	

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 STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES
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 ORAWING NO.
 P-03.10 Sheet 1 of 2

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▲ THE LENGTH OF NESTED W-BEAM IS FOR TYPES 2 OR 3 (37.5'). DETERMINATION OF TYPE (1, 2 or 3) TO USE IS MADE IN THE FIELD. THE PAY OUANTITY IS THE LENGTH INSTALLED PER STD. C-10.06 (25.0' or 37.5').

 \triangle SPECIFY GUTTER WIDTH UNDER "REMARKS"

- SEE BRIDGE SHEETS FOR DETAILS AND QUANTITIES
- LENGTH IS FROM LENGTH OF NEED (LON) POINT TO LON POINT. ACTUAL SEGMENT LENGTH VARIES DEPENDING ON TERMINAL TYPE. SEE SPECIAL PROVISIONS.
- SPECIFY TYPE 1 OR 2 UNDER 'REMARKS'
- ALLOWABLE END TREATMENT OPTIONS ARE INDICATED WITH THE NUMBER 'I' IN THE SPACE. BLANK SPACES ARE NOT VIABLE ALTERNATIVES.
- ARRAY TYPE AND ANGLE IS NOTED UNDER 'REMARKS'
- NOTE: FOR AS-BUILT PREPARATION CIRCLE END TREATMENT INSTALLED

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P-03.10 STD

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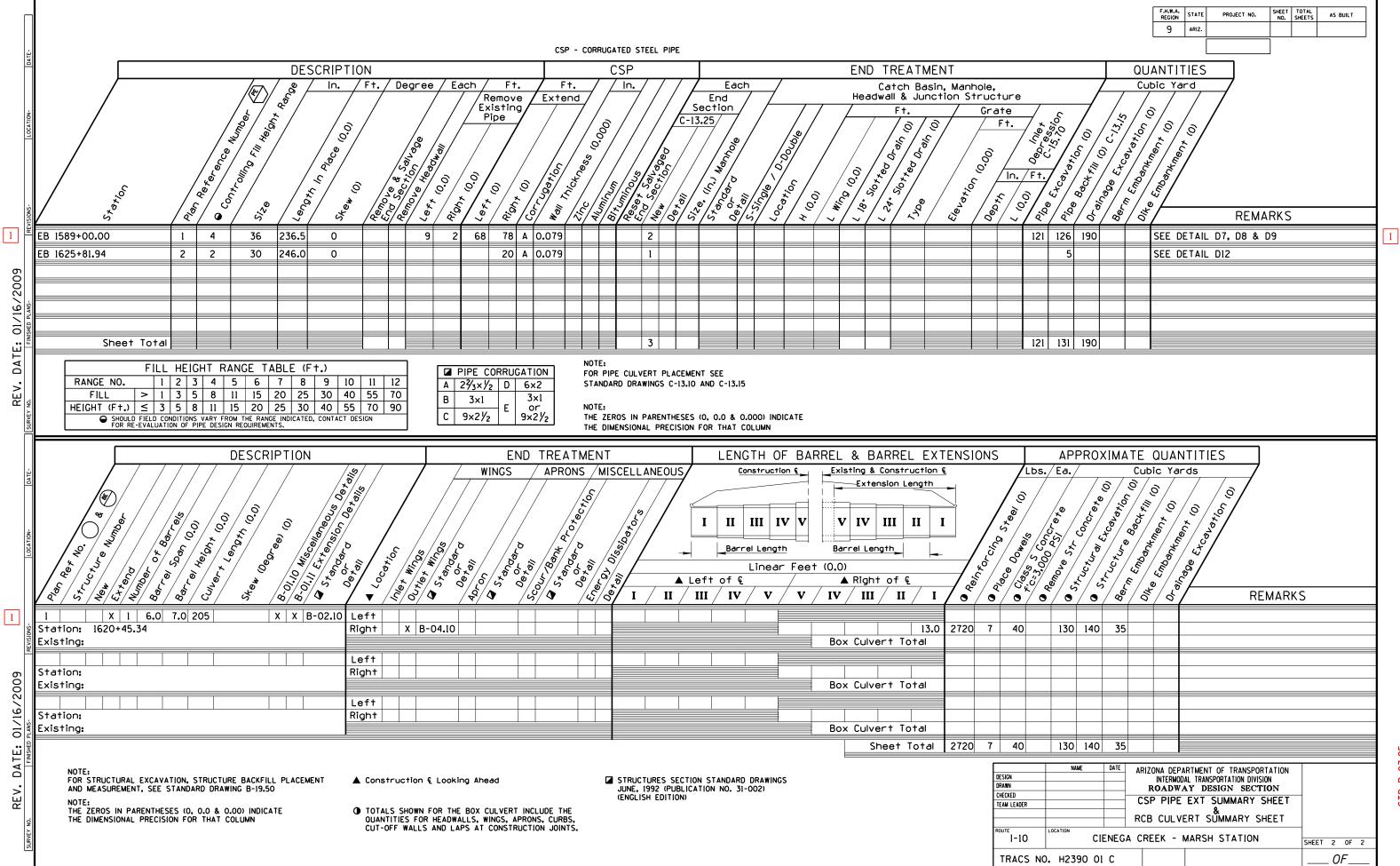
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NOTE: FOR STRUCTURAL EXCAVATION, STRUCTURE BACKFILL PLACEMENT AND MEASUREMENT, SEE STANDARD DRAWING B-19.50

NOTE: THE ZEROS IN PARENTHESES (0, 0.0 & 0.00) INDICATE THE DIMENSIONAL PRECISION FOR THAT COLUMN THE DIMENSIONAL PRECISION FOR THAT COLUMN TOTALS SHOWN FOR THE BOX CULVERT INCLUDE THE OUANTITIES FOR HEADWALLS, WINGS, APRONS, CURBS, CUT-OFF WALLS AND LAPS AT CONSTRUCTION JOINTS.

STRUCTURES SECTION STANDARD DRAWINGS JUNE, 1992 (PUBLICATION NO. 31-002) (ENGLISH EDITION)

▲ Construction € Looking Ahead

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LOCATION

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P-03.30 STD

SHEET 2 OF 2

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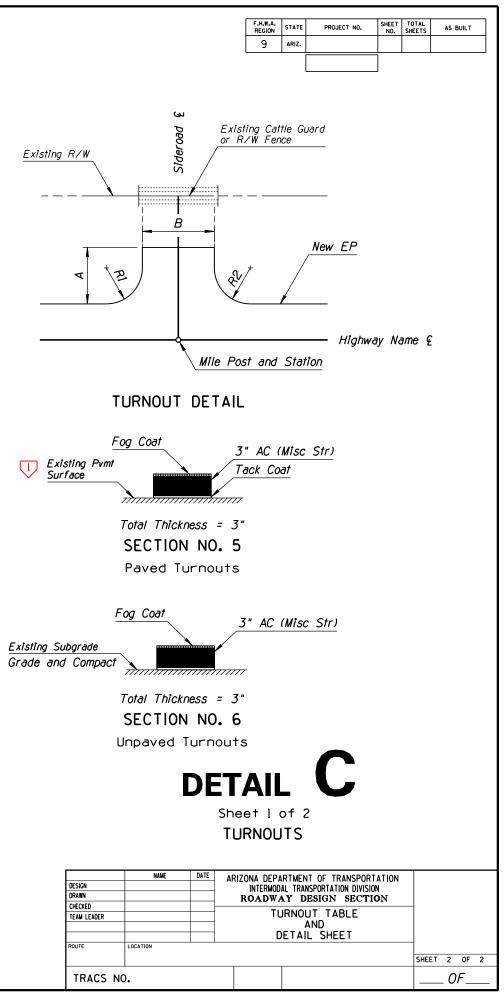
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									ULIMIL SHEET	Sheet 1 of 2

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Turnout Number	Mile Post	€ Station	LT/RT	Paved or Unpaved	A	DIMEN B	ISIONS R1	R2	Pvmt Str Sct No.	REMARKS
T1	31.91	1732+57	RT	Paved	30	25	30	30	5	
T2	34.29	1858+23	RT	Paved	30	25	30	30	5	Ramsey Mine Rd
T3	34.53	1870+90	LT	Paved	30	25	30	30	5	Perry Rd
T4	34.57	1873+02	LT	Paved	30	25	30	30	5	
<i>T5</i>	34.6	1874+61	LT	Paved	30	25	30	20	5	Skew 45 Deg.
<i>T6</i>	34.69	1879+36	RT	Unpaved	30	25	30	30	6	
<i>T</i> 7	34.7	1879+89	LT	Unpaved	30	25	30	30	6	
T8	34.72	1880+95	LT	Paved	30	25	30	30	5	
<i>T</i> 9	34.72	1880+95	RT	Unpaved	30	25	30	30	6	
<i>T10</i>	34.75	1882+53	LT	Unpaved	30	25	30	30	6	
T11	34.76	1883+06	RT	Unpaved	30	25	30	30	6	
T12	34.8	1885+17	LT	Paved	30	25	30	20	5	Skew 45 Deg.
T13	34.89	1889+92	RT	Unpaved	30	25	30	30	6	-
T14	34.94	1892+56	LT	Paved	30	25	30	30	5	Twin Buttes Rd
T15	35.06	1898+89	RT	Unpaved	30	25	30	30	6	
T16	35.12	1902+06	RT	Paved	30	25	30	30	5	
T17	35.14	1903+12	RT	Paved	30	25	30	30	5	
T18	35.22	1904 + 36	LT	Unpaved	30	25	30	30	6	Black Rock RV Village
T19	35.24	1905+42	LT	Unpaved	30	25	30	30	6	Black Rock RV Village
T20	35.26	1906 + 47	LT	Unpaved	30	25	30	30	6	Black Rock RV Village
T21	35.32	1909+64	LT	Unpaved	30	25	30	30	6	Black Rock RV Village
T22	36.59	1976+70	LT	Paved	30	25	30	30	5	Flying Crown Ranch Rd
T23	38.17	2060+12	LT	Unpaved	30	25	30	30	6	
T24	38.22	2062+76	LT	Paved	30	25	30	30	5	
T25	38.36	2070+16	LT	Unpaved	30	25	30	30	6	
T26	38.8	2093+39	LT	Unpaved	30	25	30	30	6	
T27	38.85	2096+03	RT	Unpaved	30	25	30	30	6	
T28	38.9	2098+67	RT	Unpaved	30	25	30	30	6	
T29	39	2103+95	LT	Unpaved	30	25	30	30	6	
T30	39.11	2109+75	RT	Unpaved	30	25	30	30	6	
T31	39.44	2127 + 17	LT	Unpaved	30	25	30	30	6	
T32	39.48	2129+29	RT	Unpaved	30	25	30	30	6	
T33	39.72	2141+96	RT	Unpaved	30	25	30	30	6	
T34	39.84	2148+30	LT	Unpaved	30	25	30	30	6	
T35	40.08	2160+97	LT	Unpaved	30	25	30	30	6	
T36	40.2	2167 + 31	LT	Unpaved	30	25	30	30	6	
T 37	40.3	2172+59	LT	Unpaved	30	25	30	30	6	
T38	40.47	2181 + 56	LT	Unpaved	30	25	30	30	6	
T39	40.55	2185+79	RT	Unpaved	30	25	30	30	6	
T40	40.58	2187 + 37	RT	Unpaved	30	25	30	30	6	
T4]	40.72	2194+76	RT	Paved	30	25	30	30	5	
T42	40.73	2195+29	LT	Paved	30	25	30	30	5	
T43	42.45	2285+88	RT	Unpaved	30	25	30	30	6	
T44	42.5	2288+52	RT	Unpaved	30	25	30	30	6	
T45	42.61	2294+32	RT	Paved	30	25	30	30	5	

Existing R/W

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Existing Subgrade

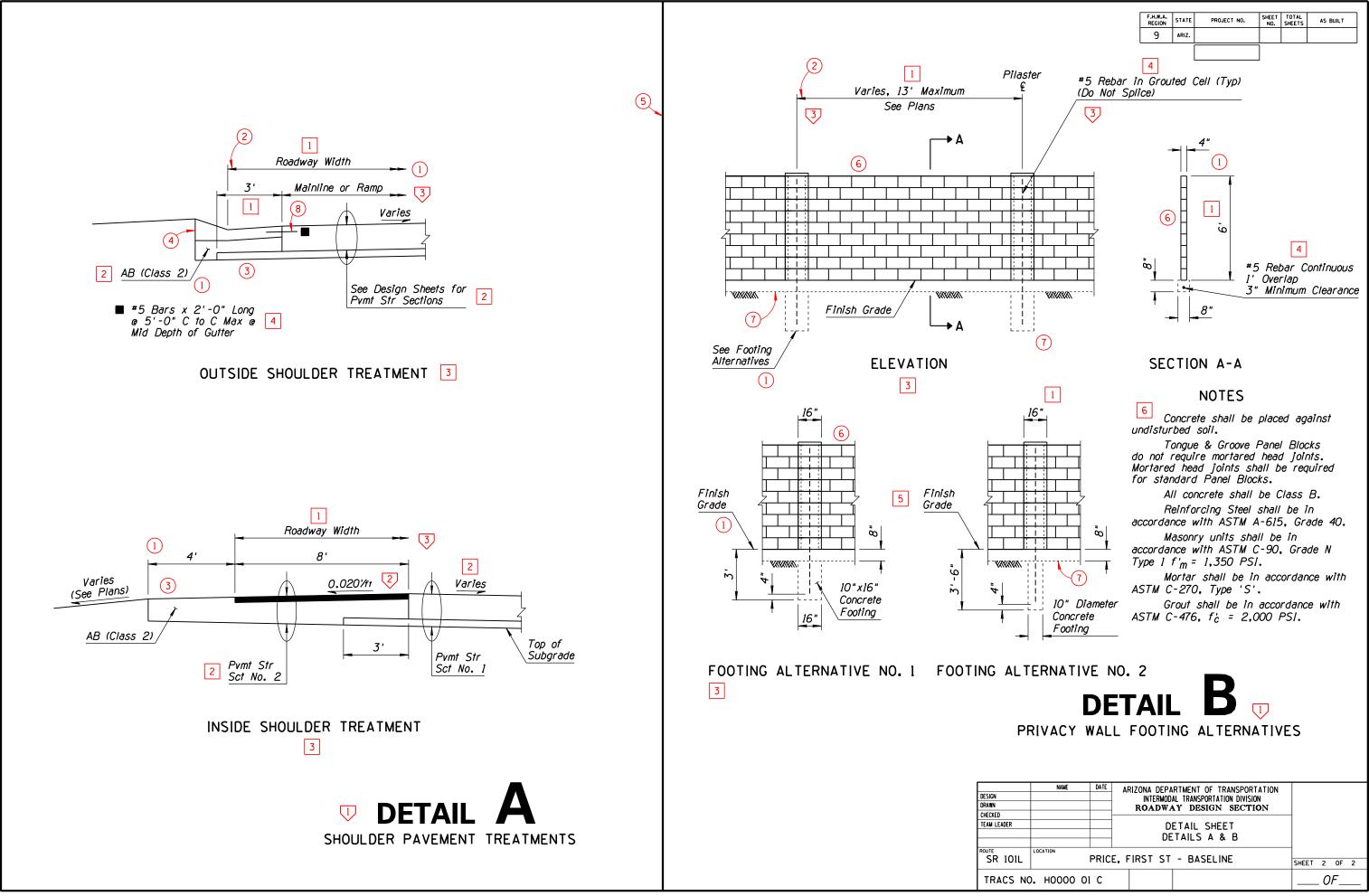
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STD P-04.00

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1	25	23	17.5	4	8.75	СВ				
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3	54	1	22	6	11	СВ				
4	34	23	17.5	4	8.75	LB				
5	43	23	17.5	4	8.75	LB				
6	55	23	17.5	4	8.75	LB	Line spacing between notes shall be 17.5 units			
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3	20	3	0							
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5	63	7	0							
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									Show roadway cross slope in fe	
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NOTE: For projec		sheet	s, see	Standa	ards P-	02.51,	P-02.52, & P-02.53			
Abbreviations: L' Ci					- Tev	t Refe	rence Callout Units of Measure for 'TX=' and 'I	_S=' are expressed in	feet, (scale - 1"=100')	APPROV DISTRIB
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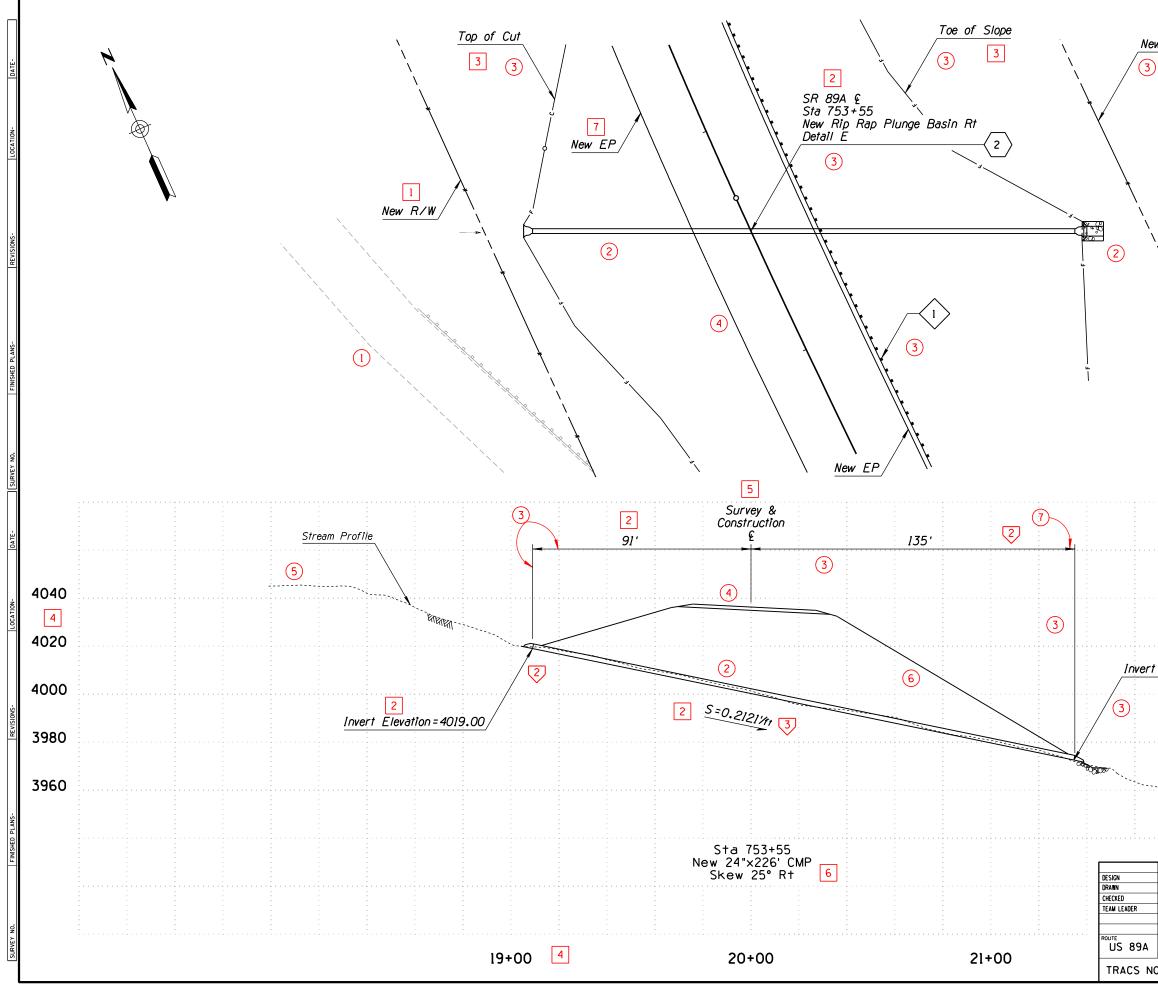
NOTES

Comments
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per foot to 3 decimal places
ension & Leader Line Layout
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES
SHOULDER PAVEMENT TREATMENTS
AND
PRIVACY WALL DETAIL SHEET
Comments



P-04.10 STD

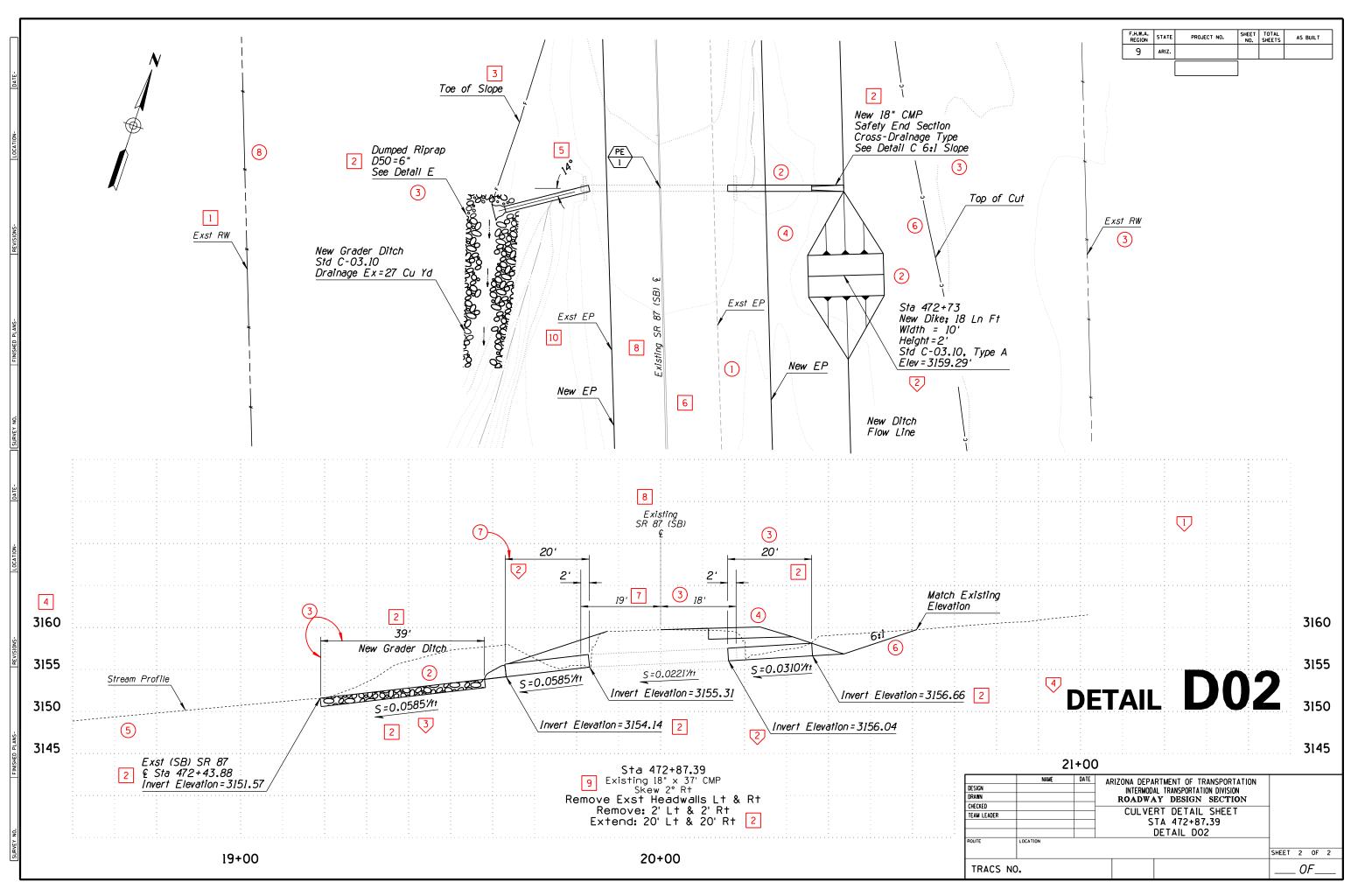
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	3	39	23	17.5	4	8.75	LB						
⊢	4	37	23	17.5	4	8.75	LB						
⊢	5	62 28	23	20 17 . 5	4	8.75	CB CB						
⊢	6	39	1	17.5	4	8.75	СС						
⊢	7	36	23	17.5	4	8.75	RB						
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					1	GRAPHI	C PAR	AMETERS					
	Reference No.	LV/C0=	W T =	LC=				Comments					
		16	1	3									
	2	38	3	0									
	3	•	1	0	• te	xt plac	ed for	or Leader Line LV/CO shall match the LV/CO of the r that item					
	4	35	3	0									
	5	59	1	5									
	6	37	3	0		Stand	ard Lir	pe Terminator: typical. The LV/CO shall match the		L	ISER NOTES		
	7	-	-	-	LV/C	0 of th	ne tex	ne Terminator; typical. The LV/CO shall match the t placed for that item	Reference No. 📿		Com	nments	
										See Std P-00.70 for Profile She	et Overlay		
									2	See Std P-00.60 & P-00.61 for D	imension & Lea	Ider Line Layout	
₹-									3	Show slope in feet per foot to	4 decimal plac	es	
									4	See Std P-00.61 for Detail Form	at Layout		
	T I												
	ine subdued bad is recommended	ckground sh to enhance	own ca the cl	n be p larity (oroduce of cer	ed by u tain pla	sing a an she	modified pen table. While this procedure ets, the use of this process is optional.					
	NOTE: For proje	ect related	sheets	, see S	Standa	rds P-()5 . 25 &	P-07.25					
	Abbreviations:	LV - LEVEL CO - COLOR FT - FONT TX - TEXT S WT - LINE WE LS - LINE SP TJ - TEXT JU	IZE) - Grap	ohic Re	rence Callout Units of Measure for 'TX=' and 'LS using ADOT's Standard Working Un aference Callout	;=' are expressed in ts	feet, (scale - 1"=100')	APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
		LS - LINE SP TJ - TEXT JI	ACING JSTIFIC	ATION	\checkmark) - User	- Note	Reference Callout			SAMPL	E CULVERT DETAIL SHEET FOR NEW PIPE INSTALLATION	P-05.10 Sheet 1 of 2



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STD P-05.10

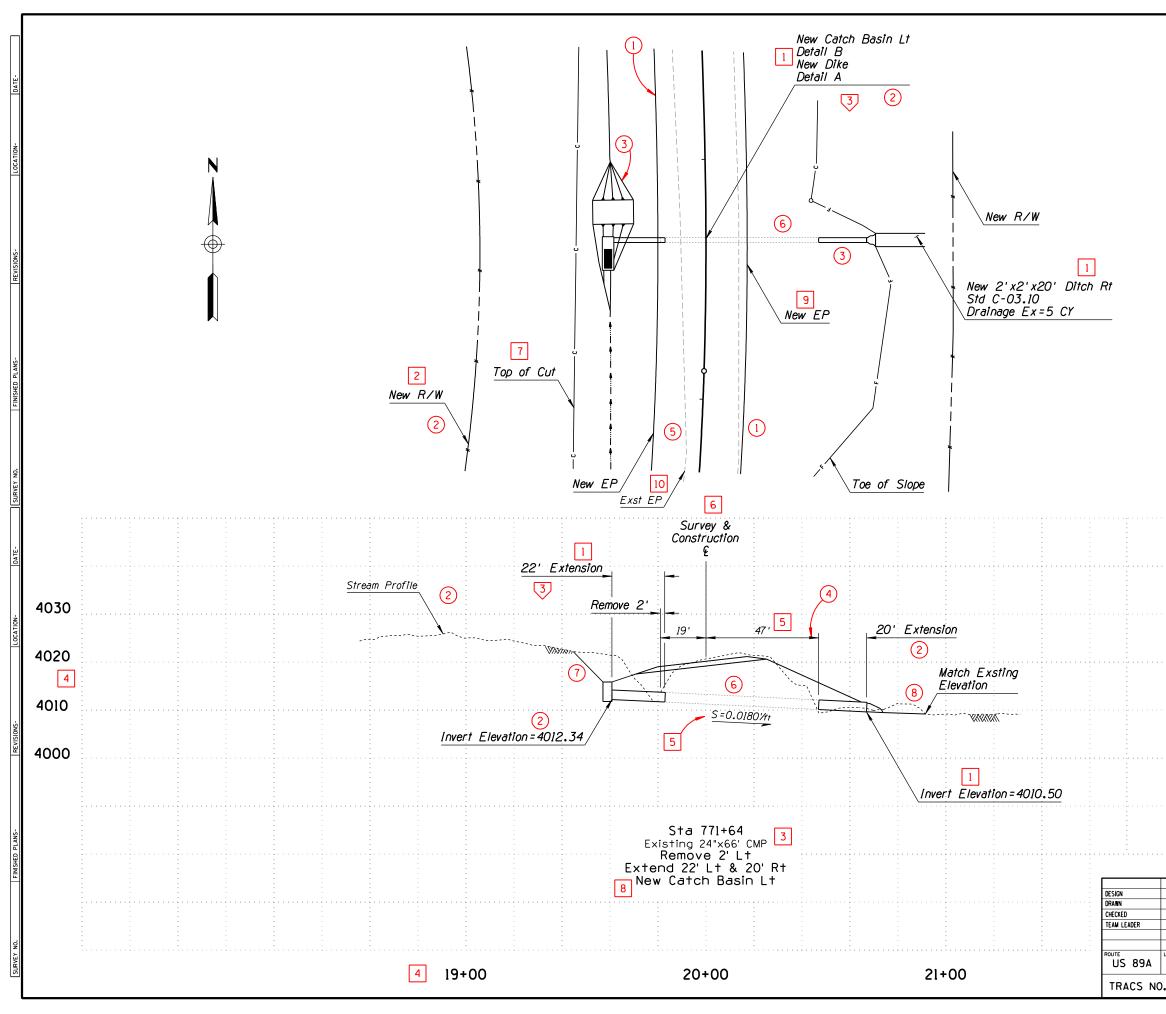
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					C	ADD TE	XT PA	RAMETERS				
	Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments				
	1	29	23	15	2	7.50	RB		1			
	2	39	23	17.5	4	8.75	LB					
	3	37	23	17.5	4	8.75	LB					
	4	62	1	20	6	-	СВ					
	5	25	23	17.5	4	8.75	СВ					
	6	28	23	17.5	4	8.75	СВ					
	7	14	23	15	2	7.50	LB					
	8	21	23	15	2	7.50	СВ					
	9	14	1	15	2	7.50	СВ					
	10	19	23	15	2	7.50	RB					
									-			
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									-			
									-			
									-			
						GRAPHI	C PAR	AMETERS				
	Reference No.	LV/CO=	WT=	LC=				Comments	-			
		16	1	3					-			
	(2)	38	3	0					-			
\square	3	•	1	0	• Dim	nension	Line o	or Leader Line LV/CO shall match the LV/CO of the ⁻ that item				
	4	35	3	0		<u> </u>						
	5	59	1	5								
	6	37	3	0						1	JSER NOTES	
	7	-	-	-	ADOT LV/C	Stando 0 of th	ard Lin Ne text	ne Terminator; typical. The LV/CO shall match the t placed for that item]			
	8	29	1	0					Reference No.		Comments	
										See Std P-00.70 for Profile She	-	
ন্থৰ										See Std P-00.60 & P-00.61 for D		
\square									3	Show slope in feet per foot to		
										See Std P-00.61 for Detail Form		
	The subdued backg	round sh	own ca the cl	n be p arity	roduce	ed by u	sing a	modified pen table. While this procedure ets, the use of this process is optional.				
				arry	01 001	run pic						
											APPROVED FOR DISTRIBUTION STATE OF ARIZONA	REV.
	Abbreviations: LV CO FT	- LEVEL - COLOR - FONT						rence Callout Units of Measure for 'TX=' and using ADOT's Standard Working L	S=' are expressed in	feet, (scale - 1"=100')	DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION	
	TX WT	- TEXT S - LINE WE - LINE SF - TEXT JI	IZE EIGHT		\sim			eference Callout			DRAFTING GUIDES	DRAWING NO.
ৰৰ	LS TJ	- LINE SP - TEXT JI	ACING JSTIFIC	TION	\sim	- user	NOTE	Reference Callout			SAMPLE CULVERT DETAIL SHEET FOR PIPE EXTENSION	P-05.20 Sheet 1 of 2
<u> </u>											1	



					C 4	ו עט IE		RAMETERS		
Refe	erence No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	-	
	1	39	23	17.5	4	8.75	LB			
	2	30	23	17.5	4	8.75	LB		-	
	3	14	1	15	2	7.5	СВ		-	
	4	62	1	20	6	-	СС			
	5	14	23	15	2	7.5	СВ			
	6	28	23	17.5	4	8.75	СВ			
	7	37	23	17.5	4	8.75	LB			
	8	39	1	17.5	4	8.75	СВ			
	9	36	23	17.5	4	8.75	LB			
	10	19	23	15.0	2	7.50	LB			
					(GRAPHI	C PAR	AMETERS		
Refe	erence No. 🔵	LV/CO=	W T =	LC=				Comments		
		35	3	0						
	2	•	1	0	• Dime tex	ension t place	or Lea ed for	ader Line LV/CO shall be the same LV/CO as the that item		
	3	38	3	0						
	4	-	-	-	ADOT the	Standa text pl	ard Lir aced f	ne Terminator; typical.LV/CO shall match the LV/CO of for that item		
	5	16	1	3						
	6	13	1	1						
	(7)	37	3	0]	1
	8	59	1	5					Reference No.	
										See Std P-00.70 for Profile
									2	See Std P-00.61 for Detail St
									3	See Stds P-00.60 & P-00.61 f
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NOTE	: For project	related	sheets	s, see	Standa	rds P-	05.10 8	¥ P-07 . 25		
			sheets	s, see						
	previations: LV CO FT	- LEVEL - COLOR - FONT				- Text	Refe	rence Callout Units of Measure for 'TX=' and 'L using ADOT's Standard Working Ur	S=' are expressed in	
	previations: LV CO FT				0	- Text - Grap	Refe	reace Callout Units of Measure for 'TX=' and 'L	S=' are expressed in	

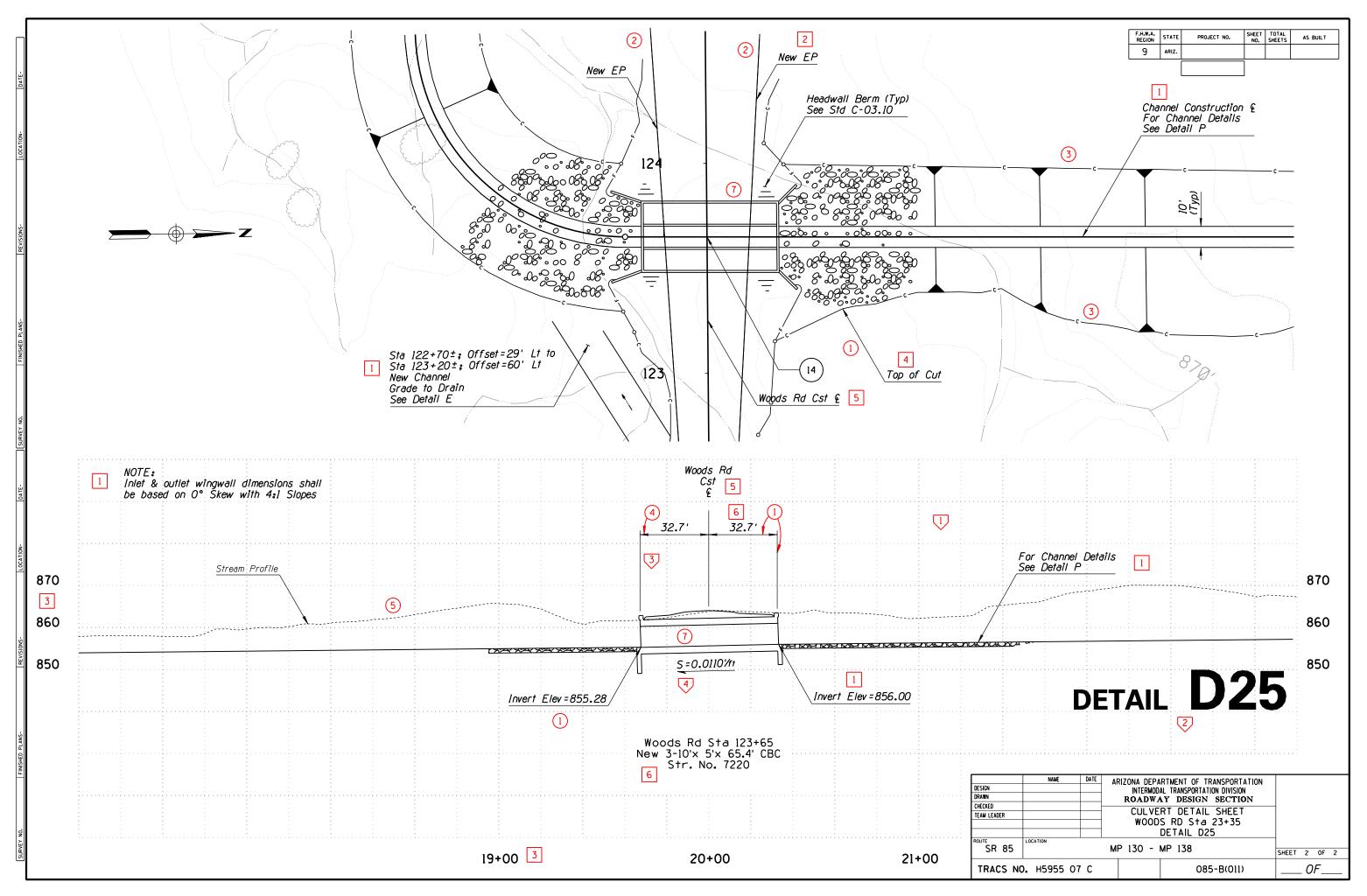
USER NOTES

Comments Sheet Overlay heet Format for Dimension & Leader Line Layout APPROVED FOR DISTRIBUTION STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES REV. DRAWING NO. SAMPLE CULVERT DETAIL SHEET FOR PIPE EXTENSION WITH CATCH BASIN **P-05.25** Sheet 1 of 2



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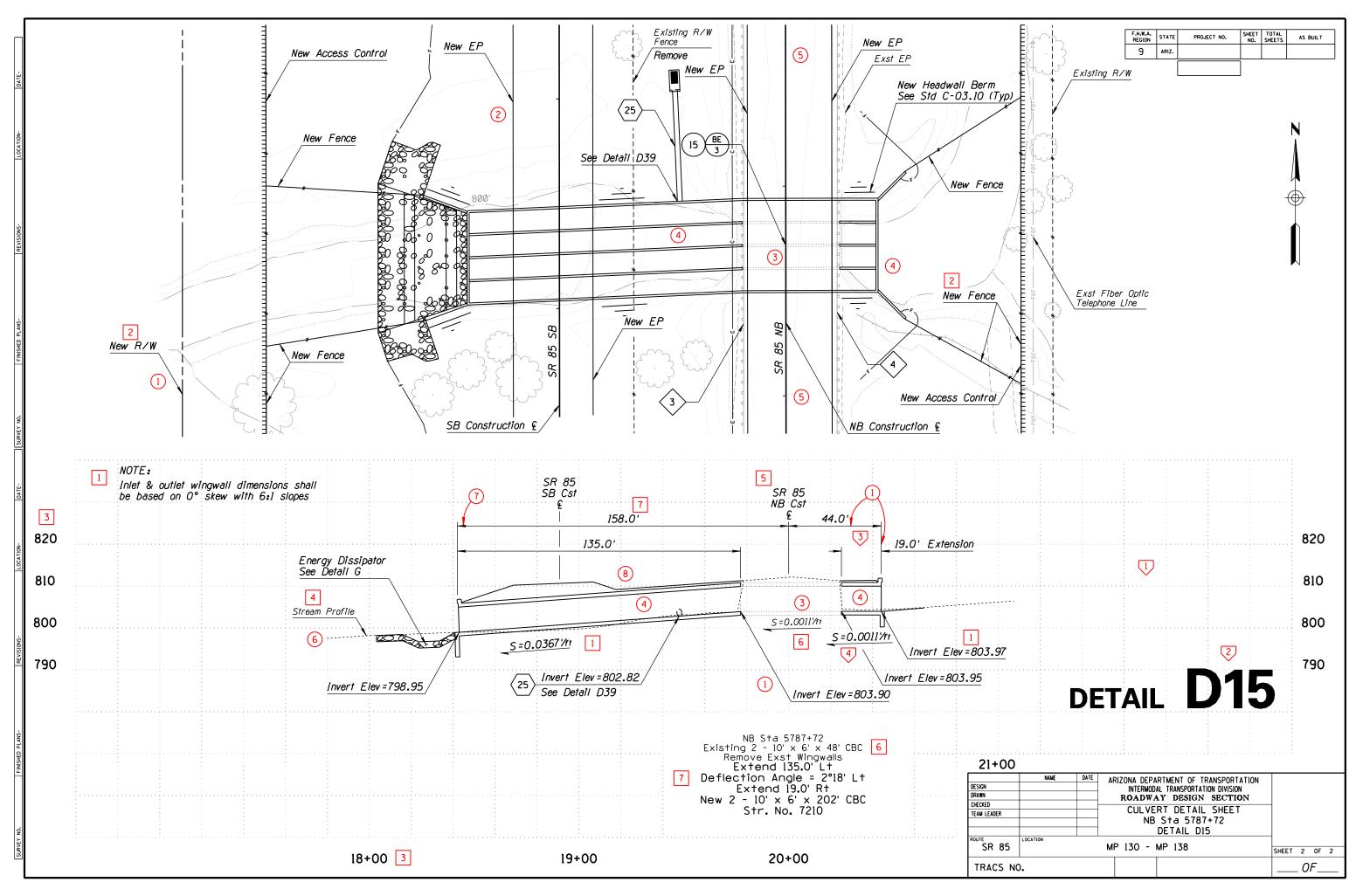
ſ					C	CADD TEXT PARAMETERS					
-	Reference No.	LV/CO=	FT=	TX=	WT=	LS= TJ= Comments					
F	1	39	23	17.5	4	8.75 LB					
F	2	36	23	17.5	4	8.75 LB					
	3	62	1	20	6	11 CB					
	4	37	23	17.5	4	8.75 LB					
ľ	5	28	23	17.5	4	8.75 CB					
	6	39	23	17.5	4	8.75 CB					
-											
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⊦											
						GRAPHIC PARAMETERS					
F	Reference No.	LV/CO=	WT=	LC=		Comments					
Ī		0	1	0	• Dim	mension or Leader Line LV/CO shall match the LV/CO of the ext placed for that item					
	2	35	3	0							
\Box	3	37	2	0							
	4	-	-	-	ADOT the	T Standard Line Terminator; typical. LV/CO shall match the LV/CO of text placed for that item					
	5	59	1	5							
	6	13	1	1				1	JSER NOTES		
	7	48	3	0			Reference No.			ments	
								See Std P-00.70 for Profile She			
							2	See Std P-00.61 for Detail Form	-		
1							3	See Stds P-00.60 & P-00.61 for		ader Line Lavout	
\square							4	Show slope in feet per foot to			
	The subdued bac is recommended	ckground sh to enhance	own ca the cl	n be p arity	oroduce of cer	ed by using a modified pen table. While this procedure rtain plan sheets, the use of this process is optional.					
	NOTE: For pro	iect related	sheet,	see S	Standar	ard P-05.40					
	Abbreviations:	LV - LEVEL CO - COLOR FT - FONT TX - TEXT S WT - LINE WE	IZE		Ō	- Text Reference Callout - Graphic Reference Callout - Graphic Reference Callout	n S=' are expressed in its	feet, (scale - 1"=100')	APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	
1		US - LINE WE LS - LINE SP TJ - TEXT JU	ACING JSTIFICA	TION		- User Note Reference Callout			SAMPL NEW CONC	E CULVERT DETAIL SHEET FOR RETE BOX CULVERT INSTALLATION	DRAWING NO. P-05.30 Sheet 1 of 2



STD P-05.30

									11				
					С	ADD TE	XT PA	RAMETERS					
Reference	No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments					
1		39	23	17.5	4	8.75	LB						
2		30	23	17.5	4	8.75	LB						
3		62	1	20	6	11	СВ						
4		14	23	15	2	7.5	LB						
5		28	23	17.5	4	8.75	СВ						
6		14	1	15	2	7.5	СВ						
7		39	1	17.5	4	8.75	СВ						
						GRAPH	C PAR	AMETERS					
Reference	No.	LV/CO=	W T =	LC=				Comments					
)	0	1	0	• Din	nension xt plac	or Lea	ader Line LV/CO shall match the LV/CO of the that item					
2)	35	3	0		·							
3)	22	1	1									
4)	48	3	0									
5)	16	1	3									
6)	59	1	5									
(7)		-	-	-	AD01	Stand	ard Lir laced f	ne Terminator; typical.LV/CO shall match the LV/CO of For that item		L	JSER NOTES		
8)	37	3	0		<u> </u>			Reference No. 📿		Co	omments	
										See Std P-00.70 for Profile She	et Overlay		
									2	See Std P-00.61 for Detail Form	at Layout		
									3	See Stds P-00.60 & P-00.61 for	Dimension & L	_eader Line Layout	
									4	Show slope in feet per foot to	4 decimal pla	aces	
The subdue	ed backor	ound sh	own ca	n he i	oroduc	ed by i	isina a	modified pen table. While this procedure					
is recomme	ended to	enhance	the cl	larity	of cer	tain pl	an she	modified pen table. While this procedure ets, the use of this process is optional.					
NOTE: For	r project	related	sheet	, see	Standa	rd P-05	.30						
Abbreviat	ET .	- FONT	IZE			-		rence Callout Units of Measure for 'TX=' and 'Lusing ADOT's Standard Working Units of Measure for 'TX=' and 'L	S=' are expressed in its	feet, (scale - 1"=100')	APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
	WT LS - TJ -	- TEXT S - LINE WE - LINE SP - TEXT JI	EIGHT ACING JSTIFIC	ATION	\subset			Reference Callout				SAMPLE CULVERT DETAIL SHEET FOR BOX EXTENSION	RAWING NO. P-05.40

<u>200</u>



STD P-05.40

	_ 1	T	1	C/	AUD TE	<u>-</u> XIPA	RAMETERS			
Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments			
1	28	1	22	6	11	LB				
2	28	23	17.5	4	8.75	LB				
3	28	1	22	6	11	RC				
4	25	23	17.5	4	8.75	LB				
5	28	1	22	6	11	сс				
								1		
								1		
								-1		
								-1		
								-1		
								-1		
					GRAPH	IC PAR	AMETERS			
Reference No.	LV/CO=	WT=	LC=				Comments	1		
1	28	4	0					1		
2	28	4	0	ADOT	Stand	lard Lir	e Terminator; modify scale 4 times larger. LV/CO //CO of the text placed for that item	-1		
3	27	6	0	Silui	march			-1		
 	•	1	0		nensior	or Le	ader Line LV/CO shall match the LV/CO of the text item	-1		
5	28	1	0	pic				-1		
<u> </u>	27	6	0					-1		
\bigcirc								-	U	SER
								Reference No. 🗸		
									Locate top point of PI toward	СС
								2	Horizontal Control Point callouts adjustment to Leader Lines may	; ar
								3	Show Superelevation in feet per	
NOTE : For proje	ot related	shaat	S 500	Standa	arde P	-0210.8	P-02 15			
				310100	u us P	02.10 8				
Abbreviations: L' F T W Li	V - LEVEL O - COLOR				- Tex	t Refe	rence Callout Units of Measure for 'TX=' and '	LS=' are expressed in	feet, (scale - 1"=100')	APPROV DISTRIE
F T	I - FONT X - TEXT S	IZE					ference Callout using ADOT's Standard Working L	NITS		
W L	I - LINE WE S - LINE SP		A T 101 -	\bigtriangledown	- Use	r Note	Reference Callout			1
Т	J - TEXT JI	USTIFIC	AIION							1

NOTES

 Comments

 Te shown perpendicular to roadway §; some

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 bot to 3 decimal places

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 DEPARTMENT OF TRANSPORTATION

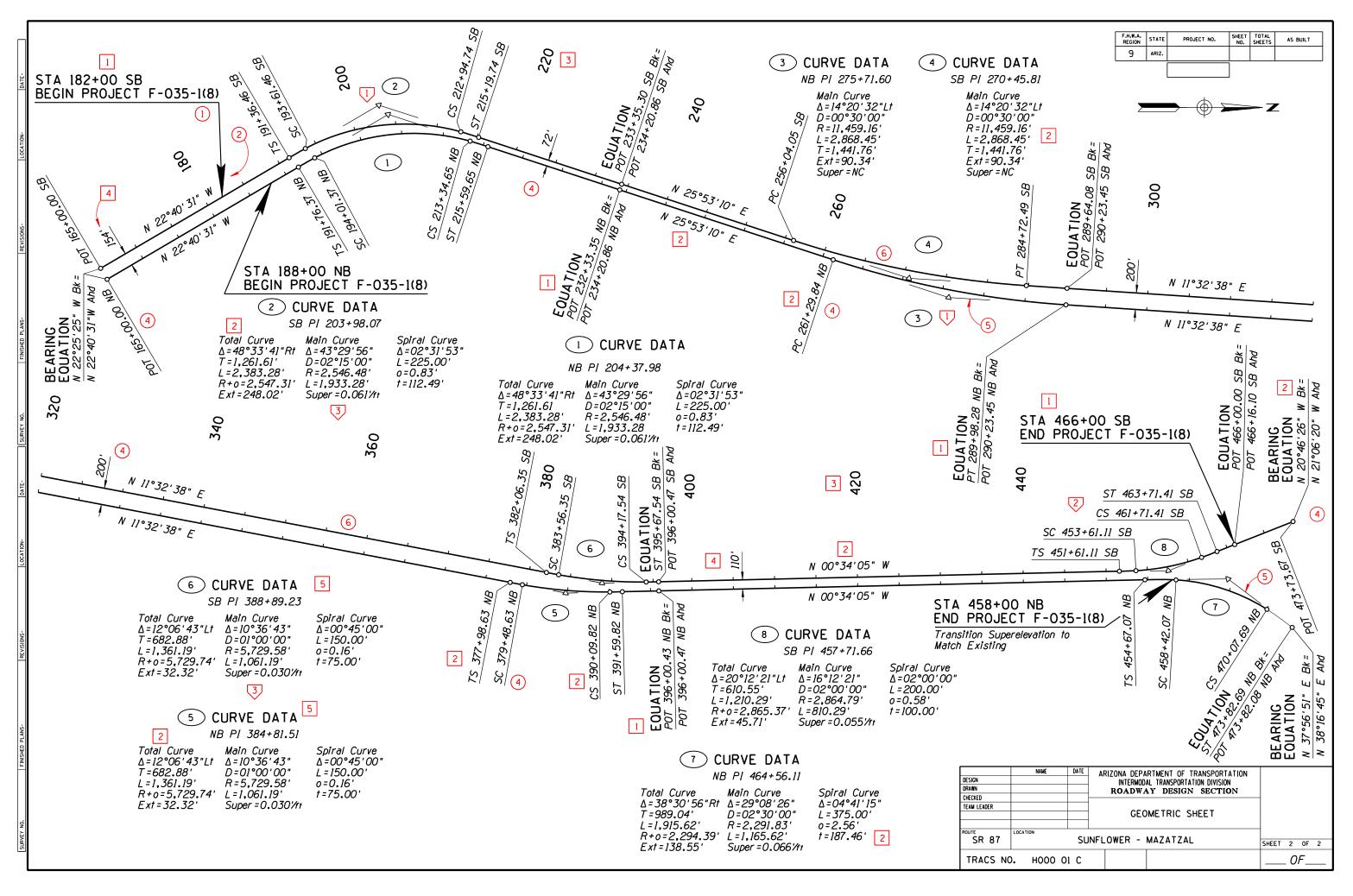
 ROADWAY DESIGN SECTION

 DRAFTING GUIDES

 DRAWING NO.

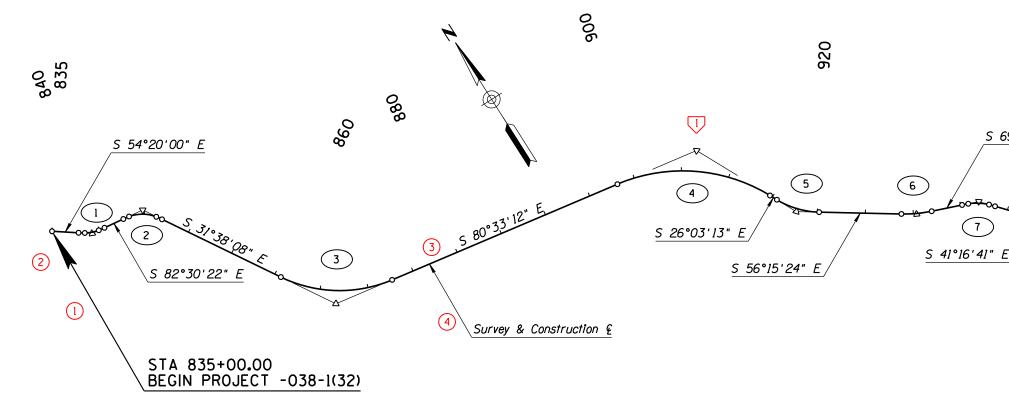
 SAMPLE GEOMETRIC SHEET

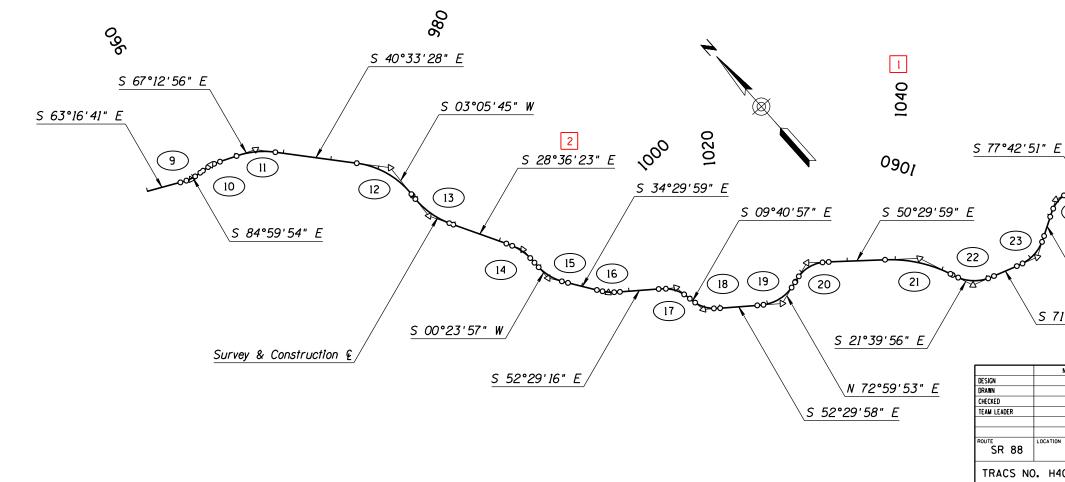
 FOR RURAL ROADWAY

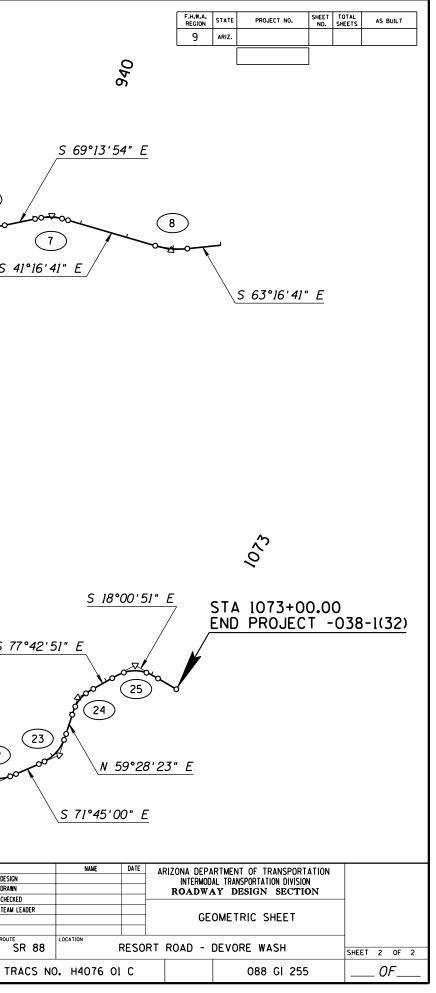


STD P-06.10

ſ						С	ADD TE	EXT PA	ARAMETERS					
F	Reference N	o. 🗌	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments					
F	1		28	1	22	6	11	LC						
	2		28	23	17.5	4	8.75	LB						
-														
-														
-														
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							GRAPH	IC PAR	AMETERS					
	Reference N	Io. 🔵	LV/CO=	W T =	LC=				Comments					
			28	4	0									
┯┠	2		28	4	0	shall	match	the L	ne Terminator; modify scale 4 times larger. LV/CO V/CO of the text placed for that item					
	3		27	6	0	D ir	nensior	orle	eader line V/CO shall match the V/CO of the text					
	4		•	1	0	• pla	aced fo	or tha	ader Line LV/CO shall match the LV/CO of the text t item					
												USER NOTES		
										Reference No. 📿		Com	ments	
											Locate top point of PI toward	CC		
- E5														
	NOTE : For	projec	t relate	d shee	t, see	Stand	ard P-(06.12						
╎╎┠										1		APPROVED FOR DISTRIBUTION	STATE OF ARIZONA	REV.
	Abbreviatio	CO F T	- COLOR - FONT				•		rence Callout Units of Measure for 'TX=' and 'L using ADOT's Standard Working Ur	S=' are expressed in its	feet, (scale - 1"=100')		DEPARTMENT OF TRANSPORTATIO ROADWAY DESIGN SECTION	N
		TX WT	- TEXT S - LINE WE - LINE SP - TEXT JU	IZE IGHT ACING		-			eference Callout					DRAWING NO.
1		TJ	- TEXT JI	JSTIFIC	ATION	~	-	-					AMPLE GEOMETRIC SHEET FOR RURAL ROADWAY	P-06.11 Sheet 1 of 2







STD P-06.11

Γ							C	ADD ⁻	TEXT P	ARAMETERS						
	Referenc	e No.	LV/0	:0= I	FT=	TX=	W T =	LS	= TJ=	Comments						
		1	58	3	23	15	4	-	LB	Text justification is LC unless otherwi	ise shown					
									_							
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\vdash																
								GRAP	HIC PA	RAMETERS						
	Referenc	ce No. (20=	WT=	LC=				Comments						
╞																
														USER NOTES		
												Reference No. 📿		Cor	nments	
													See Std P-00.60 for Data Table	e Layout		
]				
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	NOTE: Fo	r proie	t relat	ed she	eet. se	ee St	andar	d P-0	6.11							
														APPROVED FOR DISTRIBUTION	STATE OF ARIZONA	REV.
	Abbrevi	((CO - COL T - FON X - TEX	OR T T SIZE						erence Callout Units of Measur using ADOT's Sta	e for 'TX=' and 'L ndard Working Ur	S=' are expressed in [.] hits	feet, (scale - 1"=100')		DEPARTMENT OF TRANSPORTATIC ROADWAY DESIGN SECTION DRAFTING GUIDES	
		ļ	TX - TEX VT - LINI S - LINE J - TEX	E WEIG SPAC T JUST	HI ING TIFICATI	ION	\bigtriangledown	- Us	er Not	e Reference Callout					GEOMETRIC DATA SHEET	DRAWING NO. P-06.12 Sheet 1 of 2

Centerline Geometric Data Sheet Use this sheet ONLY if the project was surveyed

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PLAN			Point		COORDIN	NATES		Spiral	Total				Spira	Main or	Circular	Curve				Spiral Cur	ve	
REF N		SCRIPTION	Туре	STATION	Northing	Easting	Total Delta	T	L	R+o	Ex†	Δ	D	R	L	T	Ex†	Super	Δ	L	0	+
	Survey & Cor	nstruction §	POB	835+00.00	292935.35	128667.28																
								_														
			PI	839+19.09	292690.99	129007.75	28°10'23"Lt	141.75'	278.89'	435.40'	13.90'	19°36'41"	13°10'17"	435.00'	148.89'				4°16'51"	65.00'	0.40'	32.49'
	Survey & Cor		TS	837+77.34	292773.64	128892.59			_					_								
	Survey & Cor		SC	838+42.34	292737.08	128946.31																
	Survey & Cor		CS	839+91.23	292682.58	129084.10																
	Survey & Cor	nstruction y	ST	840+56.23	292672.51	129148.29																
	Survey & Cor	nstruction §	PI	844+95.53	292615.21	129583.85	50°52']4"Rt	222.94	420.14'	400.44'	43.42'	41°33′36″	14°19'26"	400.00'	290.14'				4°39' 19"	65.00'	0.44'	32.49'
	Survey & Cor		TS	842+72.60	292644.29	129362.81																
	Survey & Cor		SC	843+37.60	292634.07	129426.98																
	Survey & Cor		CS	846+27.74	292479.78	129665.21																
	Survey & Cor	nstruction 🗧	ST	846+92.74	292425.40	129700.78																
3			PI	867+06.38	290710.98	130756.97						48°55'04"Lt	4°05'33"	1400.00'	1195.29'	636.80'	138.02'					
ANS-	Survey & Cor		PC	860+69.58	291253.16	130422.95																
10 FC	Survey & Cor	nstruction §	PT	872+64.87	290606.46	131385.13																
	Survey & Cor	octruction 6	PI	907+11.36	290040.79	134784.89						54°29' 59"Rt		1740.00'	1655.08'	806 15'	217.21'					
	Survey & Cor		PC	898+15.21	290187.88	133900.89		_	_			J4 23 33 Ki	511 54	1140.00	1055.00	030.15	211.21					
	Survey & Cor		PT	914+70.29	289235.71	135178.49																
				314+10.23	209233.11	155110.45																
5	Survey & Cor	nstruction §	PI	917+92.27	288946.44	135319.91						30°12'10"Lt	6°30'39"	880.00'	463.88'	237.47'	31.48'					
NON NO	Survey & Cor		PC	915+54.81	289159.78	135215.61																
URVE	Survey & Cor		PT	920+18.69	288814.54	135517.37																
12																						
6	Survey & Cor		PI	930+35.41	288249.77	136362.81						12°58' 30"Lt	4°05'33"	1400.00'	317.04'	159.20'	9.02'					
	Survey & Cor		PC	928+76.21	288338.21	136230.42																
ATE-	Survey & Cor	nstruction 😧	PT	931+93.25	288193.32	136511.66		_														
	Survey & Cor	ostruction 6	PI	936+94.11	288015.72	136979.98	27°57'13"Rt	176.93'	347.97'	580.30'	18 01'	21°31'57"	9°52'43"	580.00'	217 97'				3°12'38"	65.00'	0.30'	32.50'
\vdash	Survey & Cor		TS	935+17.18	288078.46	136814.54	2/ 5/ 15 14	110.95	J-1 . 51	500.50	10.01	21 31 31	9 52 45	500.00	211.31				J 12 J0	05.00	0.50	52.50
	Survey & Cor		SC	935+82.18	288054.29	136874.87																
ż	Survey & Cor		CS	938+00.15	287930.79	137052.92																
CATI	Survey & Cor		ST	938+65.15	287882.75	137096.70																
<u></u>																						
(3)	Survey & Cor	nstruction §	PI	949+82.70	287042.89	137833.97						22°00'01"Lt	6°30'39"	880.00'	337.90'	171.06'	16.47'					
	Survey & Cor		PC	948+11.65	287171.44	137721.12																
	Survey & Cor	nstruction §	PT	951+49.54	286965.98	137986.75																
<u>s</u> lo	Survey & Cor		PI TC	959+72.13	286596.09	138721.48	21°43'12"Lt	116.98'	231.80'	440.40'	8.43'	13°15'21"	13°01'18"	440.00'	101.80'				4°13′55″	65.00'	0.40'	32.49'
	Survey & Cor		TS	958+55.15	286648.70	138617.00		+						-								_
<u>"</u>	Survey & Cor		SC CS	959+20.15	286620.91	138675.74 138773.44															+	
	Survey & Cor			960+21.94	286593.15 286585.89	138838.02			-													
	Survey & Cor	IST UCTION &	ST	960+86.94	200303.09	130838.02																_
	Survey & Cor	nstruction ¢	PI	962+24.47	286573.90	138975.03	17°46'58"Rt	101.39'	201.56'	440.40'	5.76'	9°19'07"	13°01'18"	440.00'	71.56'				4°13′55″	65.00'	0.40'	32.49'
	Survey & Cor			961+23.08	286582.74	138874.02																
-sz	Survey & Cor		SC	961+88.08	286575.49	138938.60			1	1	1	1	1	1	1	1	1	1			1	

All Coordinates Are Ground Coordinates And All Bearings Are Grid Bearings G.A.F. = 0.000168 All bearings and angles have been rounded to the nearest second. Use the control points provided and their respective state plane coordinates to re-establish the centerline of each roadway.



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				

NAME	DATE	INTERMOD	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION							
		GEOME	TRIC DATA SHEET							
	RESO	RT ROAD -	DEVORE WASH	SHEET	2	OF	2			
. H4076 01	С			. 0	F_					

STD P-06.12

				CA	ADD TE	XT PA	RAMETERS			
Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments			
1	21	1	22	2	-	LC				
2	28	1	22	6	-	LC				
3	28	1	22	6	-	LB				
4	25	23	15	2	7.5	СВ				
5	29	23	15	2	7.5	LB				
6	21	23	15	2	7.5	LB				
7	30	23	17.5	4	8.75	LB				
								_		
								_		
								_		
								_		
				(GRAPH	IC PAR	METERS			
Reference No. (LV/CO=	WT=	LC=				Comments			
1	28	4	0							
2	•	1	0	● Dim pla	nension ced fo	or Le or that	der Line LV/CO shall match the LV/CO of the text item			
3	28	4	0				e Terminator; modify scale 4 times larger			
4	-	-	-	ADOT the	Stand text p	ard Lir Iaced 1	e Terminator, typical. LV/CO shall match the LV/CO of pr that item			
5	59	2	1	Area	Patte	rn: (Pā	1) pattern angle = 45°; pattern delta= 7 working units	_		
								-	US	SER
								Reference No.		
									See Std P-00.30 for graphic rep	
								2	Area pattern is for new AC pav the roadway centerline, dependi	emer ng u
NOTE: For proje		sheet	s, see	Standa	ards P	-02.20,	2-07.21 & P-08.20			
Abbreviations: L C F	V - LEVEL O - COLOR				- Tev	t Refe	ence Callout Units of Measure for 'TX=' and	'LS=' are expressed in	feet, (scale - 1"=100')	APPROVE DISTRIBL
F T	T - FONT X - TEXT S	IZE					ence callout using ADOT's Standard Working L Ference Callout	Inits		
i K	X - TEXT S T - LINE WE S - LINE SP J - TEXT JU	ACING	4 7 1 0 1	\bigtriangledown	- Use	r Note	Reference Callout			
Т	J - IEXI JL	12 I IF IC	ATION							

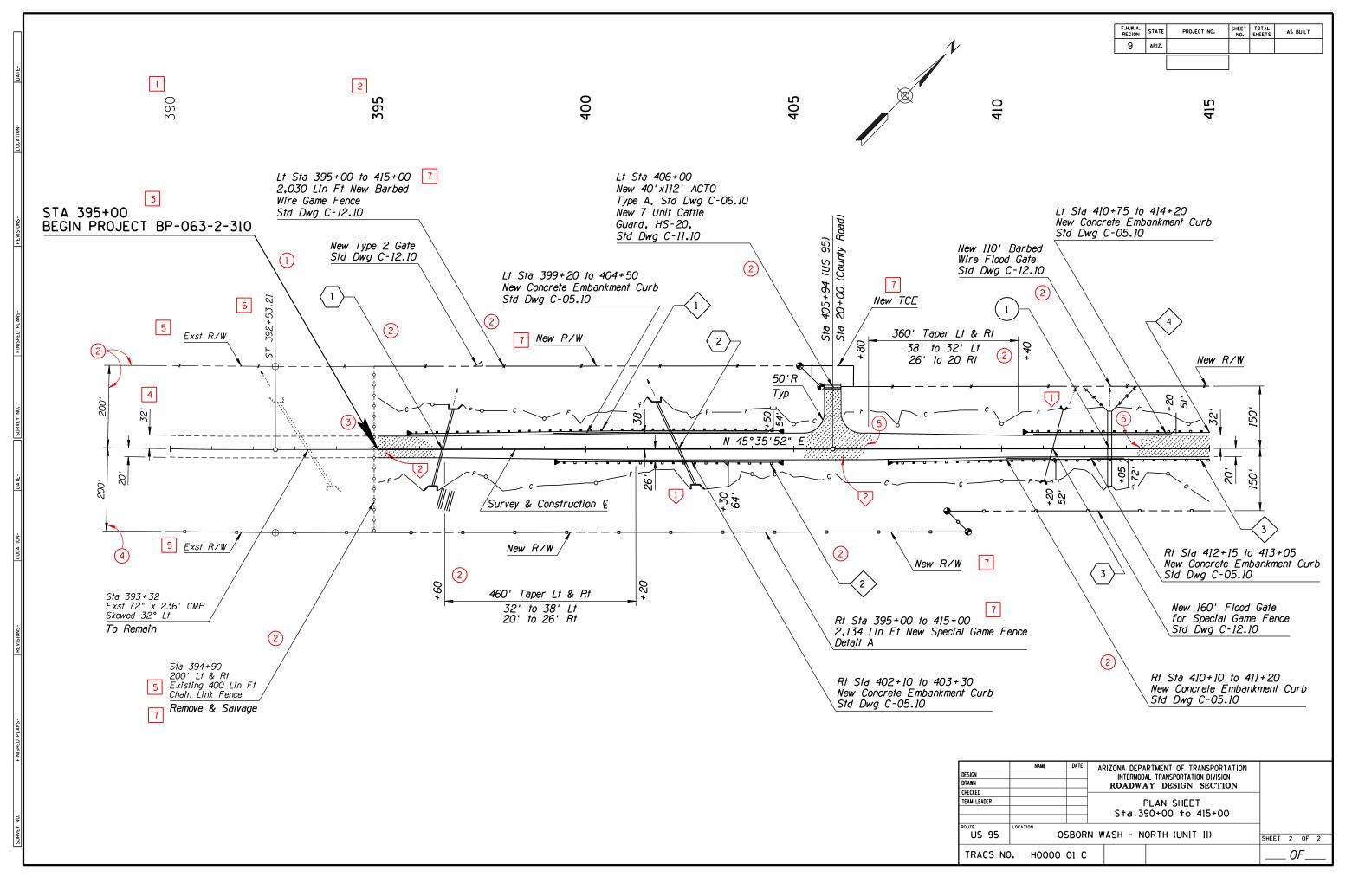
ER NOTES

Comments

resentation of pipe

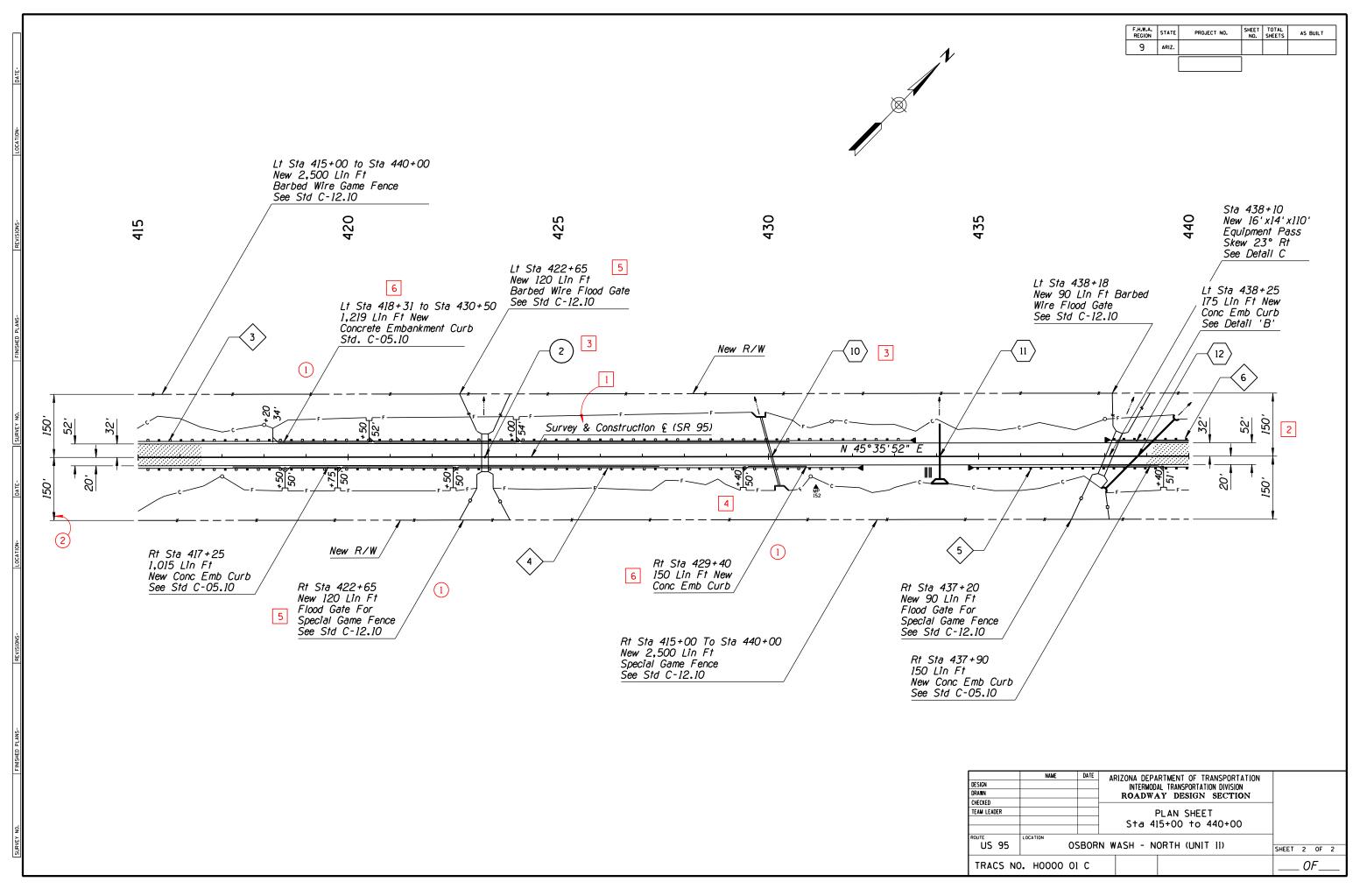
ement. Pattern angle may be modified to 45° from ng upon centerline position

ED FOR UTION	STATE OF ARIZONA		REV.
	DEPARTMENT OF TRANSPORTATION	l	
	ROADWAY DESIGN SECTION		
	DRAFTING GUIDES		
		DRAWING	NO.
	SAMPLE PLAN SHEET FOR URAL UNDIVIDED ROADWAY	F	°-07 . 20
г	ORAL UNDIVIDED ROADWAT	She	etlof2



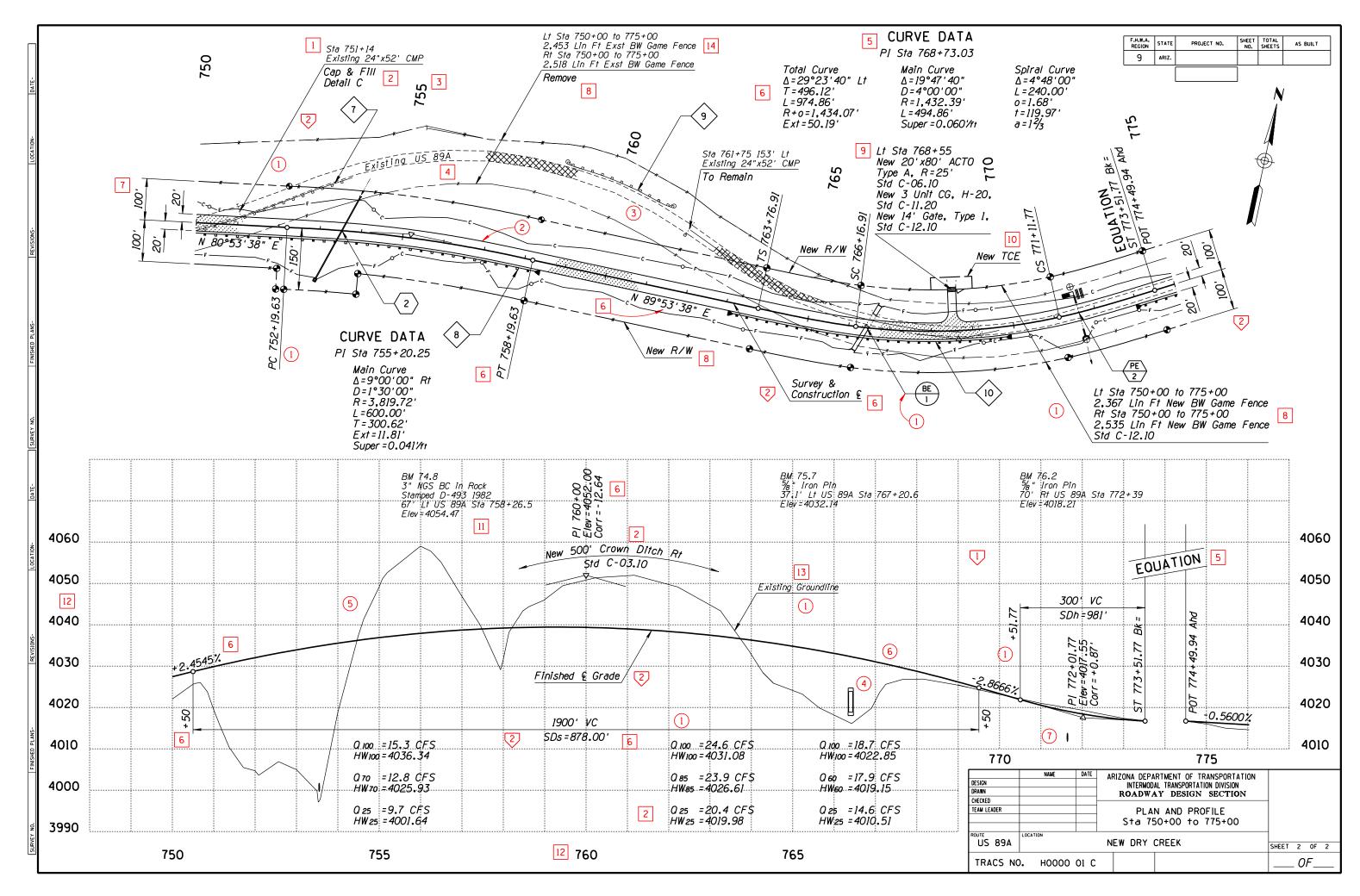
STD P-07.20

Г					С	ADD TE	EXT PA	RAMETERS					
Re	eference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments					
	1	28	23	17.5	4	8.75	LB	TJ may be adjusted to fit condition					
	2	25	23	17.5	4	8.75	LB	TJ may be adjusted to fit condition					
	3	39	1	15	4	7.5	СВ						
	4	39	23	10	4	5.0	LB						
	5	30	23	17.5	4	8.75	LB		-				
	6	45	23	17.5	4	8.75	LB						
									-				
									-				
									-				
						GRAPH	IC PAR	AMETERS					
Re	eference No.	LV/C0=	WT=	LC=				Comments					
		0	1	0		nension	or Le	ader Line LV/CO shall match the LV/CO of the text item					
	2	-	-	-	ADOT	Stand	ard Lir	ne Terminator, typical. LV/CO shall match the LV/CO of	-				
	3	59	2	1				or that item t1) pattern angle = 45°; pattern delta= 7 working units					
									_				
									•				
											JSER NOTES		
									Reference No. 🗸		Com	ments	
ন্থৰ —													
)TE : For pro	iect related	shee+	5. 500	Stand	ards P	-02 20	P-07.20 & P-08.20					
			01001				02.20,				APPROVED FOR DISTRIBUTION	STATE OF ARIZONA	REV.
	ADDREVIATIONS:	LV - LEVEL CO - COLOR FT - FONT TX - TEXT S	IZE) - Gra	phic Re	rence Callout Units of Measure for 'TX=' and 'L using ADOT's Standard Working Ur	S=' are expressed in its	feet, (scale - 1"=100')		DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	
A	DTE : For project related sheets, see Standards P-02.20, P-07.20 & P-08.20 Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT SIZE WT - LINE WEIGHT LS - LINE SPACING TJ - TEXT JUSTIFICATION D - Text Reference Callout WT - LINE SPACING TJ - TEXT JUSTIFICATION										F	SAMPLE PLAN SHEET FOR RURAL UNDIVIDED ROADWAY	DRAWING NO. P-07.21 Sheet 1 of 2



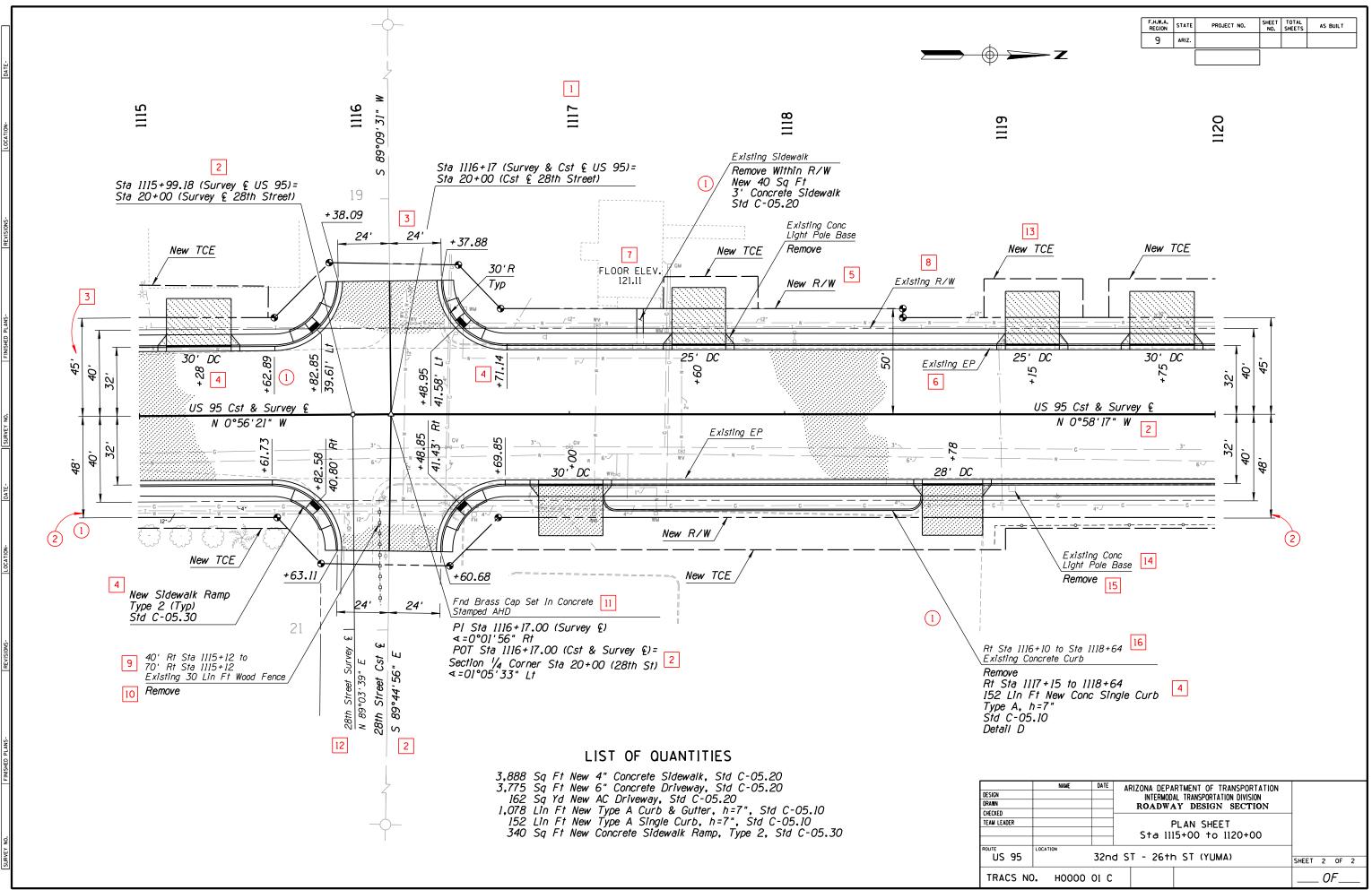
STD P-07.21

Γ					C	ADD TE	EXT PA	RAMETERS					
	Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments					
	1	14	23	15	2	7.5	LB		-				
	2	39	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown					
	3	28	1	22	6	11	LC		-				
	4	19	23	15	2	7.5	LB						
	5	28	1	22	6	11	СВ						
	6	28	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown					
	7	25	23	17.5	4	8.75	СВ		_				
	8	30	23	17.5	4	8.75	LB		_				
	9	36	23	17.5	4	8.75	LB		_				
	10	30	23	17.5	4	8.75	LB						
	11	62	23	15	2	7.5	LB		_				
	12	62	1	20	6	-	СВ	Use data fields supplied with cell	_				
	13	62	23	15	2	7.5	LB		_				
	14	29	23	15	2	7.5	LB		_				
									_				
									-				
┢									-				
						GRAPH	IC PAR	AMETERS					
	Reference No. 🔿	LV/CO=	WT=	LC=				Comments					
	(1)	•	1	0		mensior aced fo	or Le	ader Line LV/CO shall match the LV/CO of the text	-				
F	2	35	3	0									
٦٢	3	16	1	3					-				
	4	48	3	0									
	5	59	1	0									
	6	27	6	0							USER NOTES		
	7	38	3	0									
									Reference No.			ments	
										See Std P-00.70 for Profile She			
Į —										See Stds P-00.60 & P-00.61 for	Dimension & Le		
	The subdued backg is recommended to	round sho enhance	wn ca the cl	n be p laritv	oroduc of cer	ed by u tain pla	using a an she	modified pen table. While this procedure ets, the use of this process is optional.					
	NOTE: For project												
											APPROVED FOR DISTRIBUTION	STATE OF ARIZONA	REV.
	Abbreviations: LV CO FT	- COLOR - FONT			_	-		rence Callout Units of Measure for 'TX=' and ' using ADOT's Standard Working U	_S=' are expressed in nits	feet, (scale - 1"=100')		DEPARTMENT OF TRANSPORTATIO ROADWAY DESIGN SECTION	N
		- IEXI SL	IGHT		<u> </u>			eference Callout Reference Callout				DRAFTING GUIDES	DRAWING NO.
2		- LINE SP/ - TEXT JU	STIFIC	ATION	~						SAMPL R	E PLAN & PROFILE SHEET FOR URAL UNDIVIDED ROADWAY	P-07.25 Sheet 1 of 2



STD P-07.25

Г					C	ADD 1	TEXT F	PARAMETERS					
R	eference No.	LV/CO=	FT=	TX=	wT=	LS=	= TJ=	- Comments	-				
	1	28	1	22	6	11	LC		-				
	2	28	23	17.5	4	8.75	5 LB	TJ is LB unless otherwise shown					
	3	25	23	17.5	4	8.75	5 СВ						
	4	45	23	17.5	4	8.75	5 LB	TJ is LB unless otherwise shown	_				
	5	30	23	17.5	4	8.75	5 LB						
	6	19	23	15	2	7.5	LB						
	7	10	1	15	2	7.5	СВ						
	8	29	23	15	2	7.5	LB						
	9	29	23	15	2	7.5	LB	,					
	10	30	23	17.5	4	8.75	5 LT						
	11	3	23	15	2	7.5	LB						
	12	21	23	15	2	7.5	LB	TJ is LB unless otherwise shown					
	13	30	23	17.5	4	8.75	5 LB						
	14	12	23	15	2	7.50			_				
	15	41	23	17.5	4	8.75			_				
	16	24	23	15	2	7.5	LB		_				
									_				
						GRAPI	HIC PA	ARAMETERS					
	eference No.	LV/C0=	wT-	LC=				Comments					
			1	0		mensio	on or L	_eader Line LV/CO shall match the LV/CO of the or that item					
	2	-	-	-	ADO	[Stan	ndard L	Line Terminator. typical. LV/CO shall match the LV/CO	-				
┑┣─	C					the te	ext pla	ced for that item	-				
									_				
									-				
									_				
									-	l	JSER NOTES		
									Reference No.)	Con	ments	
									_				
₹]				
RU RU RU RU RU RU RU RU RU RU RU RU RU R				-]				
		•			.		-						
			sheet	s, see	Stand	lards I	P-02.30	D, P-02.31, P-08.30, P-12.20, & P-13.20					locy
	Abbreviations:	LV - LEVEL CO - COLOR FT - FONT TX - TEXT S	ZE			-		ference Callout Units of Measure for 'TX=' and using ADOT's Standard Working L Reference Callout	LS=' are expressed in nits	feet, (scale - 1"=100')	APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
<u>र</u>		TX - TEXT S WT - LINE WE LS - LINE SP TJ - TEXT JU	IGHT ACING JSTIFIC	ATION				te Reference Callout					DRAWING NO. P-07.30 Sheet 1 of 2



P-07.30 STD

-					C	ADD TE	XT PA	RAMETERS		
	Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments		
	1	62	23	15	2	7.5	LB			
	2	62	1	20	2	-	сс	Use data fields supplied with cell and change weight		
	3	62	1	20	6	-	сс	Use data fields supplied with cell		
	4	39	23	17.5	4	8.75	LB			
	5	28	23	17.5	4	8.75	СВ	TJ=CT if text string is placed under text line		
	6	28	1	22	6	11	LB	TJ=LT if text string is placed under text line		
	7	28	23	17.5	4	8.75	LB			
	8	21	23	15	2	7.5	LB			
-									_	
									_	
_									-	
_										
			1		1	GRAPHI	C PAR	AMETERS		
	Reference No.) LV/CO=	WT=	LC=				Comments	_	
		20	1	3					_	
			4	0	ADOT	Stand	ard Lir	ne Terminator; modify scale 4 times larger	_	
	2	28							_	
	3	59	1	0	Dim		avtor	cion or Londor Lino LV/CO shall match the LV/CO		
	3 (4)		1	0		iension the te	, exter ext pla	nsion or Leader Line LV/CO shall match the LV/CO ced for that item	_	
	3 4 5	59 •	1 1 -	0	ADOT	Stand	ard Lir	nsion or Leader Line LV/CO shall match the LV/CO ced for that item ne Terminator, typical.LV/CO shall match the LV/CO of for that item	_	
	3 4 5 6	59 • • 38	1 1 - 3	0 - 0	ADOT	Stand	ard Lir	ne Terminator, typical. LV/CO shall match the LV/CO of		
	3 4 5 6 7	59 • - 38 13	3	0 - 0 5	ADOT	Stand	ard Lir	ne Terminator, typical. LV/CO shall match the LV/CO of	Reference No.	ור
	3 (4) (5) (6) (7) (8)	59 • - 38 13 27	3	0 - 0 5 0	ADOT	Stand	ard Lir	ne Terminator, typical. LV/CO shall match the LV/CO of	Reference No.	See Std P-00 70 for P-
	3 4 5 6 7	59 • - 38 13	3	0 - 0 5	ADOT	Stand	ard Lir	ne Terminator, typical. LV/CO shall match the LV/CO of	Reference No.	See Std P-00.70 for Pr Double Line Terminators

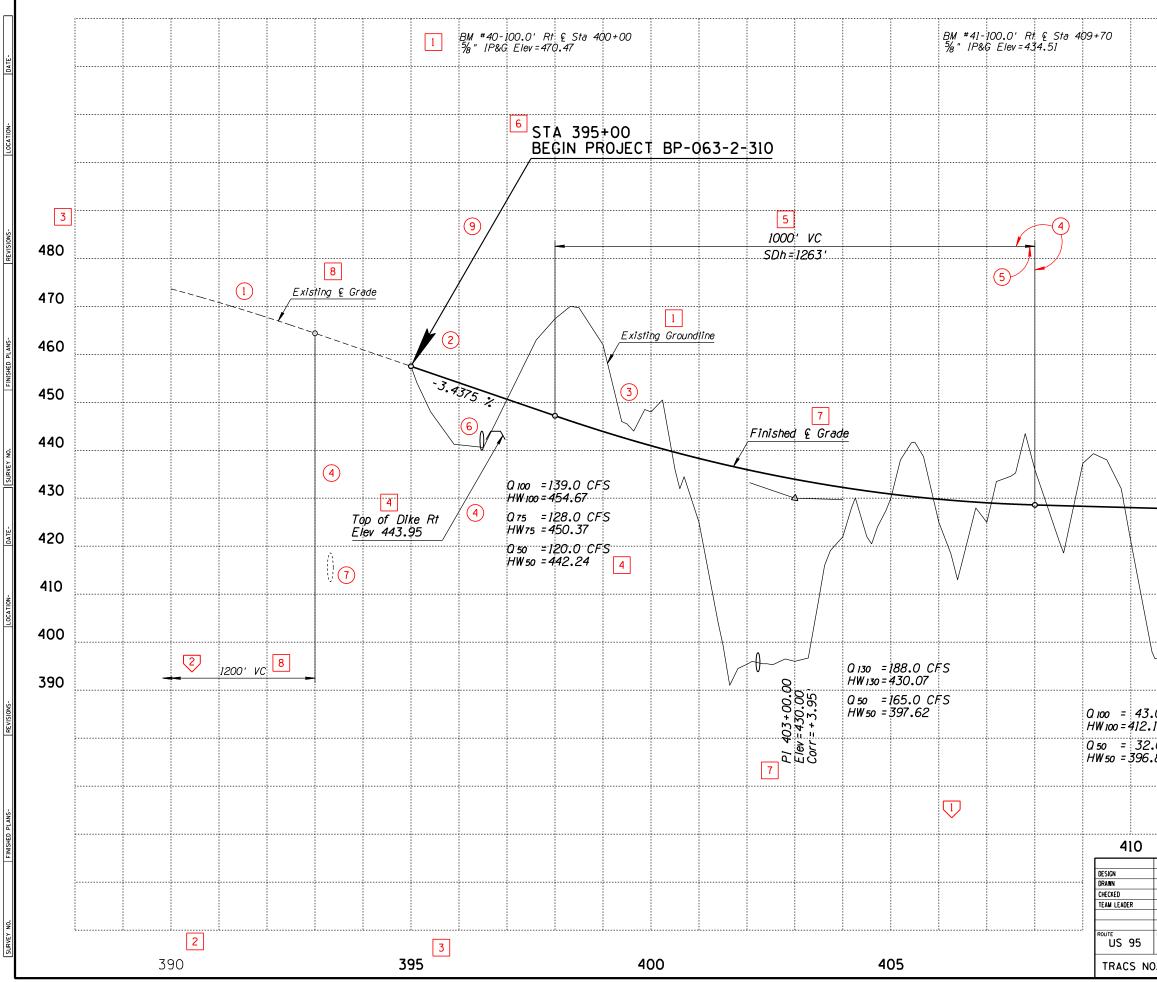
USER NOTES

Comments

ofile Sheet Overlay

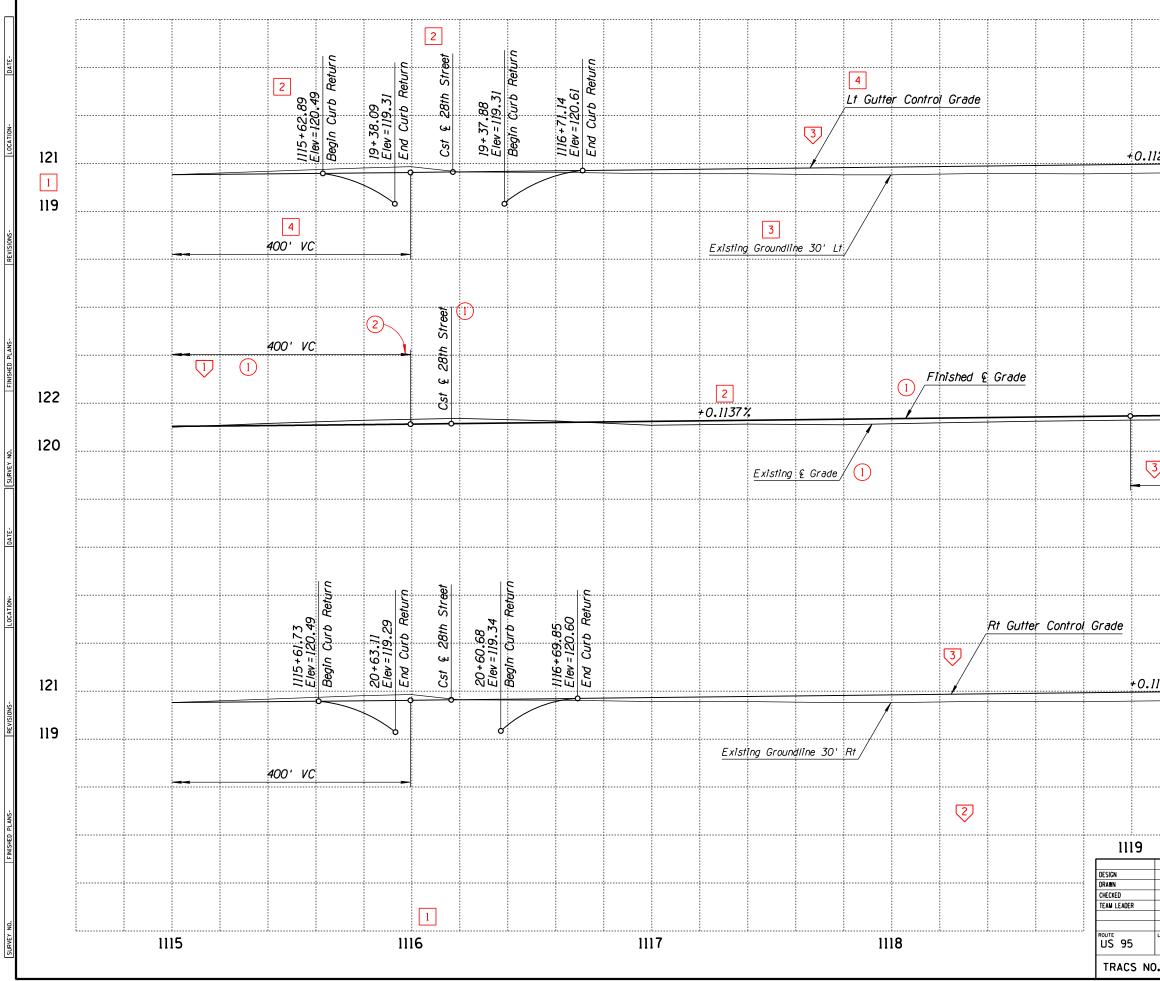
are shown for continuation on an adjacent sheet

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA		REV.
DISTRIBUTION	DEPARTMENT OF TRANSPORTATION	1	
	ROADWAY DESIGN SECTION		
	DRAFTING GUIDES		
		DRAWING	S NO.
	AMPLE PROFILE SHEET FOR	P	-08.20
R	URAL UNDIVIDED ROADWAY	She	etlof2



		-1		F.H.W.A. REGION	STATE	PROJE	CT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
				9	ARIZ.					
				·····]		
										490
										480
										470
										460
										450
						/				440
		07	70 1							430
8	-6	.27	78 %		/	/				420
	/\	V		/						410
	/									400
				/				1		390
0 CI 19				Q 120 HW 120	= 5 = 4]	301 CI 2 . 19	FS 4]		
0 C 89	FS			Q 50 HW 50	= = 39	279 C 9.34	FS			
				<u> </u>		4	15			
	NAME	DATE		INTERMOD)AL TR/	NT OF TR ANSPORTATIO	ANSPORT ON DIVISIO	N		
				Pf	ROFI	LE SHE	ET			
	05		N WA	SH - N	IORT	H (UNIT	ID		SHEE	T 2 OF 2
		C								

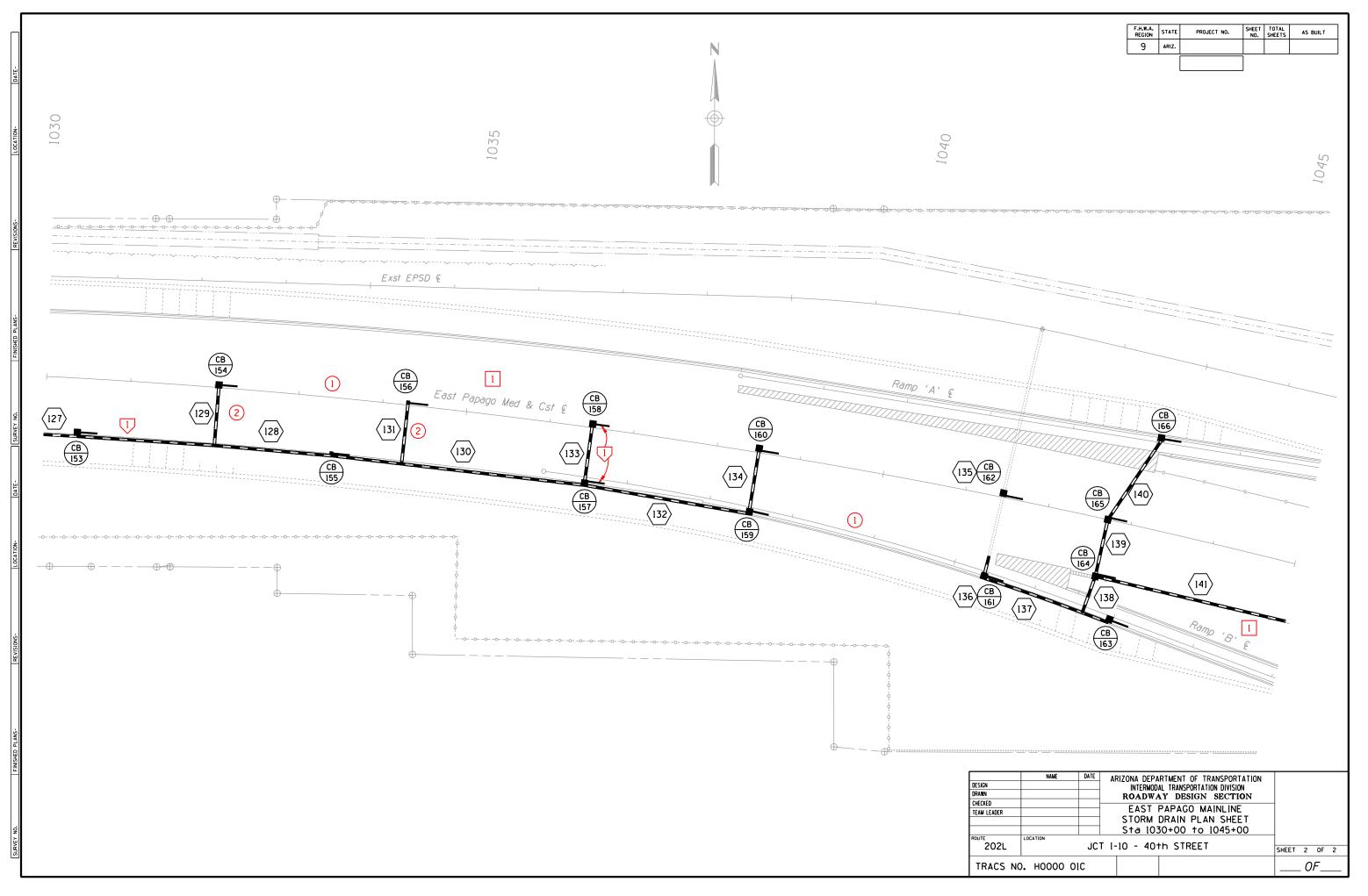
					С	ADD TE	XT PA	ARAMETERS					
	Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments					
	1	62	1	20	6	11	СВ						
	2	28	23	17.5	4	8.75	LB						
	3	62	23	15	2	7.5	LB						
	4	45	23	17.5	4	8.75	LB						
						GRAPHI	C PAR	RAMETERS					
	Reference No.	LV/CO=	W T =	LC=				Comments					
	1	•	1			mension	or Le	eader Line LV/CO shall match the LV/CO of the text t item					
	2	-	-	-	AD01	Stand	ard Lir laced f	ne Terminator; typical. LV/CO shall match the LV/CO of for that item					
ר	3	27	6	0									
	4	20	1	3									
	5	59	1	0									
	6	44	3	0							ISER NOTES		
									Reference No.			ments	
									2	Double Line Terminators are sh See Std P-00.70 for Profile She		Jation on the adjacent sneet	
₽									3	See Stds P-00.60 & P-00.61 for		ader Line Lavout	
	NOTE: For proj	ect related	sheet	s, see	Stand	ards P-	-02.30,	P-02.31, P-07.30, P-12.20 & P-013.20					
											APPROVED FOR DISTRIBUTION	STATE OF ARIZONA	REV.
	Abbreviations:	CO - COLOR FT - FONT				-		erence Callout Units of Measure for 'TX=' and 'L' using ADOT's Standard Working Un	S=' are expressed in its	feet, (scale - 1"=100')		DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	N
		TX - TEXT SI WT - LINE WE LS - LINE SP TJ - TEXT JU	IZE IGHT					eference Callout e Reference Callout					DRAWING NO.
M		TJ - TEXT JU	JSTIFIC	ATION	~						SAMF	PLE ROADWAY PROFILE SHEET FOR URBANIZED AREA	P-08.30 Sheet 1 of 2



		1		F.H.W.A. REGION	STATE	PROJE	CT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
				9	ARIZ.					
				···;····	;			 		1
25%	4			6)					121
			2							
		(5)							
										119
			~							
			3							122
		_			_					
		(4							120
37		10	~	~						
		400)' V	C						
1257										
		(5)							
						112	20			
	NAME	DATE	ARI	ZONA DEP			ANSPORT			
				ROADW	AY D	ESIGN	SECTIO			
		-	5	PRC 5†a 1115		SHEE1 to 112				
LOCATION	N	32nd	ST ·	- 26th	ST (YUMA)			SHFI	ET 2 OF 2
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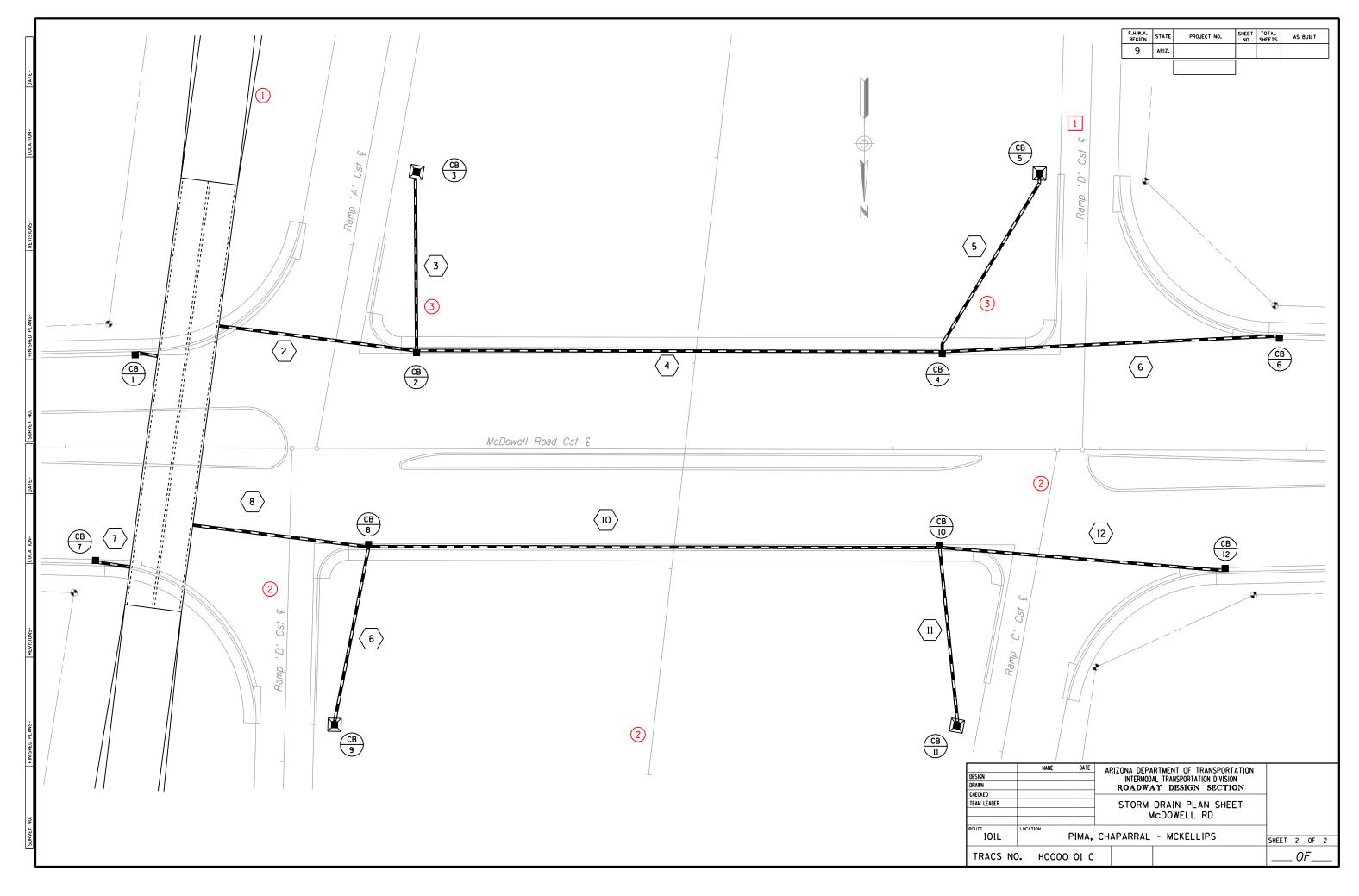
STD P-08.30

					С	ADD TE	XT PA	RAMETERS					
	Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments					
	1	28	23	17.5	4	8.75	LB						
						GRAPH	C PAR	AMETERS					
	Reference No. (LV/CO=	W T =	LC=				Comments					
		27	3	0	New plan	Center sheet	lines s only	hall be a weight of 3 when shown on Storm Drain					
	2	38	3	0									
											USER NOTES		
									Reference No.		Com	ments	
									Ū,	Represents Slotted Drain; one			
₽													
	NOTE: For proje	ct related	sheet	s, see	Stand	ard P-l	3.10						
	NOTE: For proje	V - LEVEL O - COLOR T - FONT X - TEXT S	IZE			-		rence Callout Units of Measure for 'TX=' and 'L' using ADOT's Standard Working Un	S=' are expressed in its	feet, (scale - 1"=100')	APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATIO ROADWAY DESIGN SECTION DRAFTING GUIDES	
121		S - LINE WE S - LINE SP J - TEXT JI	ACING JSTIFIC	ATION	\bigtriangledown) - Use	- Note	Reference Callout			SAMPLE	STORM DRAIN PLAN SHEET FOR URBAN FREEWAY MAINLINE	DRAWING NO. P-12.10 Sheet 1 of 2



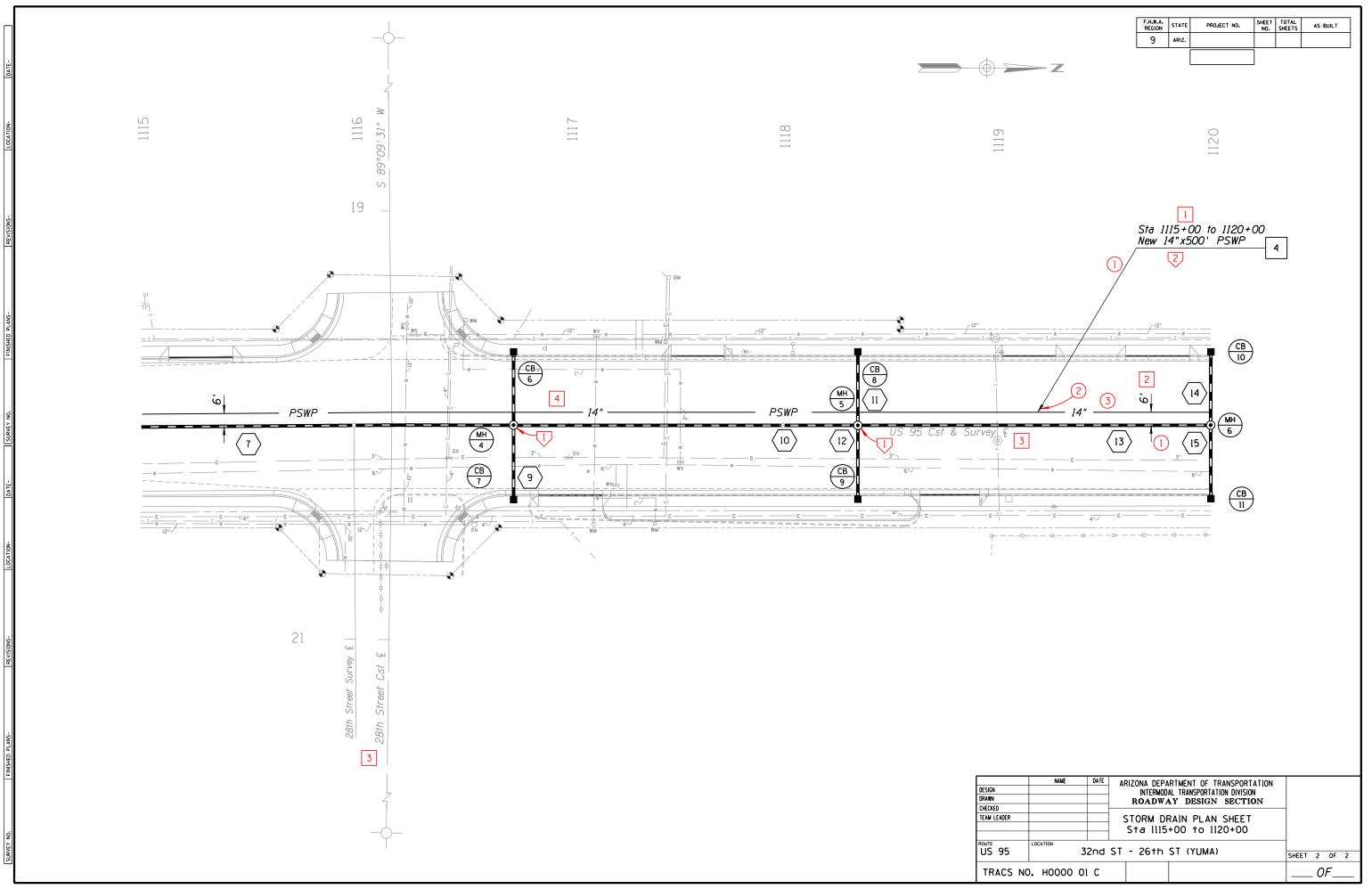
STD P-12.10

						С	ADD T	EXT PA	ARAMETERS					
Refe	erence No.	LV/C)= F	T=	TX=	WT=	LS=	TJ=	Comments					
	1	28	2	23	17.5	4	8.75	LB						
										-				
										-				
							GRAPH	IC PAR	AMETERS					
Refe	erence No.	○ LV/C)= W	VT=	LC=				Comments					
		48		3	0									
	2	27		3	0	New plan	Center sheet	line sh	nall be a weight of 3 only when shown on Storm Drain					
]	3	38		3	0									
										-				
										-		USER NOTES		
										Reference No. 🗸		Com	nents	
										-				
						1				-				
NOTE	E: For pro	ject relat	ed sh	neet,	see S	Standa	ard P-1	3.15						
Abb	TX - TEXT SIZE - Graphic Reference Callout								using ADUL's standard working up	S=' are expressed in its	feet, (scale - l"=100')	APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	
		TJ - LINE	SPACI JUST	NG IFICA	TION	\bigtriangledown) - Use	r Note	Reference Callout			SAMP FOR	LE STORM DRAIN PLAN SHEET URBAN FREEWAY CROSSROAD	P-12.15 Sheet 1 of 2



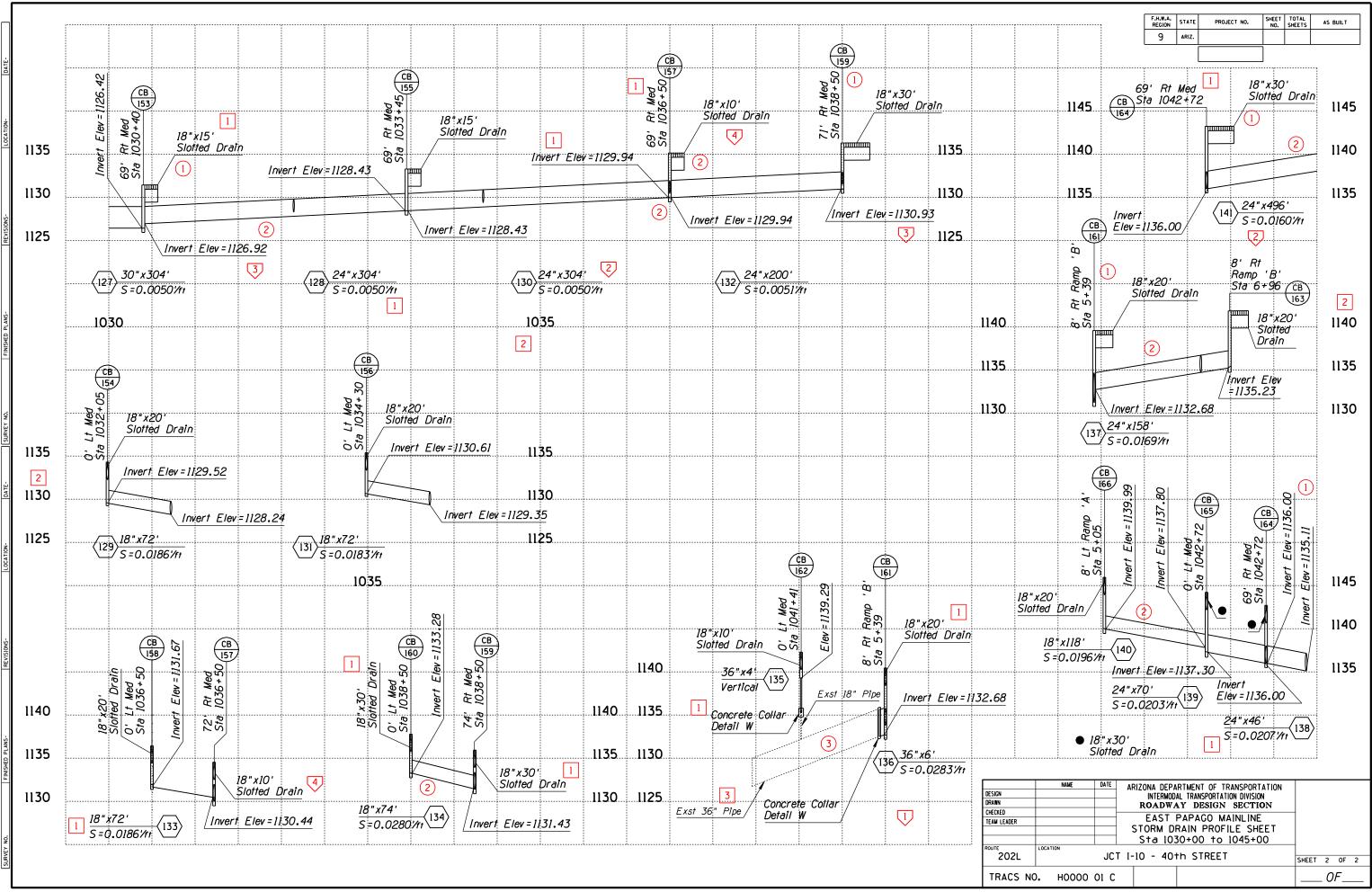
STD P-12.15

					<u> </u>	ADD TEXT PARAMETERS					
		1		T	1		4				
	Reference No.	LV/CO=	FT=	TX=	WT=	LS= TJ= Comments	4				
		39	23	17.5	4	8.75 LB	-				
	2	25	23	17.5	4	8.75 LB	_				
	3	28	23	17.5	4	8.75 LB	_				
	4	39	1	15	4	- CB Use data field supplied with cell	-1				
							-				
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						GRAPHIC PARAMETERS					
	Reference No.) LV/CO=	W T =	LC=		Comments					
		•	1	0	● Din plā	nension or Leader Line LV/CO shall match the LV/CO of the text ced for that item					
	2	-	-	-	ADOT the	Standard Line Terminator, typical. LV/CO shall match the LV/CO of text placed for that item.					
	3	38	3	0							
		_									
5							4	ι	JSER NOTES		
							Reference No.		Com	ments	
								Enlarge Manhole symbol 2 times			
							-	See Std P-00.61 for Leader Line			
ন্থৰ											
\square											
	NOTE: For projec	t related	sheet	s, see	Stand	ards P-02.30, P-02.31, P-07.30, P-08.30, & P-13.20					
	Abbreviations: LV	- LEVEL							APPROVED FOR DISTRIBUTION	STATE OF ARIZONA	REV.
	Abbreviations: LV CO FT	- COLOR - FONT				- Text Reference Callout Units of Measure for 'TX=' and using ADOT's Standard Working	LS=' are expressed in nits	feet, (scale - 1"=100')		DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION	N
	TX WT	- TEXT S - LINE W - LINE SF - TEXT J				- Graphic Reference Callout - User Note Reference Callout				DRAFTING GUIDES	DRAWING NO.
ৰৰ	LS TJ	- TEXT J	USTIFIC	ATION						STORM DRAIN PLAN SHEET FOR JRBANIZED AREA ROADWAY	P-12.20 Sheet 1 of 2



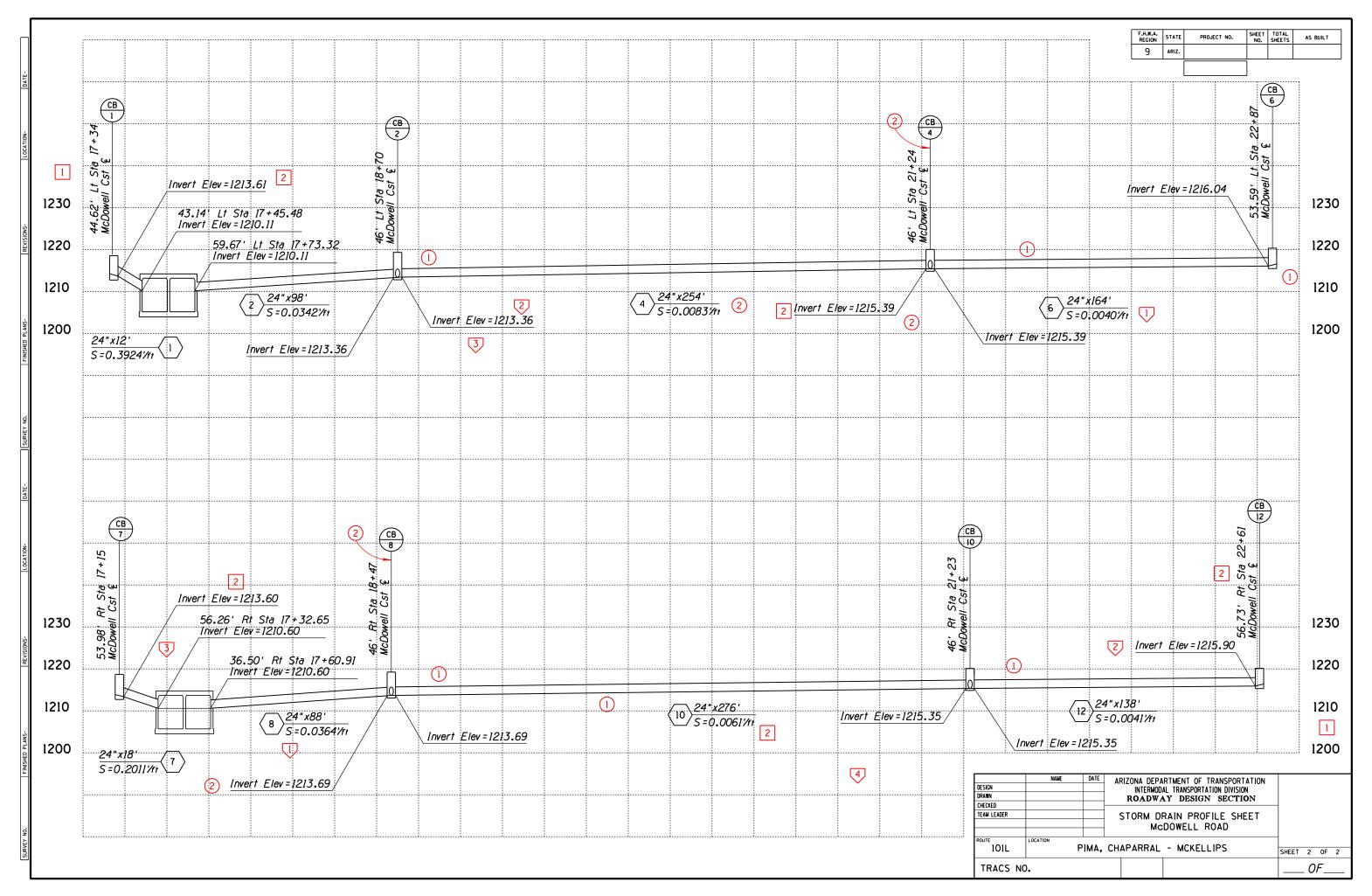
STD P-12.20

ſ					C	ADD TE	XT PA	RAMETERS					
ŀ	Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments					
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	2	62	1	20	6	11	СВ						
	3	14	23	15	2	7.5	LB						
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						GRAPHI	C PAR	AMETERS					
	Reference No. (LV/CO=	. W T =	LC=				Comments					
		•	1	0	● ^{Dim} pla	iension ced fo	or Lea r that	ader Line LV/CO shall match the LV/CO of the text item					
	2	38	3	0									
	(3)	13	1	5									
									-				
										ι	JSER NOTES		
									Reference No. 🗸		Con	nments	
										See Std P-00.70 for Profile She	eet Overlay		
									2	Show slope in feet per foot to	o 4 decimal plac	ces	
₫-			1	1	1				3	Show elevations to 2 decimal pl	aces		
									4	See Std P-00.61 for Leader Line	e Layout		
	NOTE: Do not u	se line Ter	minato	vrs to	callout	olovat	ions						
	NOTE: For proj												
	Abbreviations: 1	LV - LEVEL CO - COLOR FT - FONT IX - TEXT SI			Ō	- Grap	phic Re	rence Callout Units of Measure for 'TX=' and ' using ADOT's Standard Working U eference Callout	LL	feet, (scale - 1"=100')	APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATIO ROADWAY DESIGN SECTION DRAFTING GUIDES	
	l	TX - TEXT SI WT - LINE WE S - LINE SP TJ - TEXT JU	ACING	ATION		- User	- Note	Reference Callout			S/ F(AMPLE STORM DRAIN PROFILE DR URBAN FREEWAY MAINLINE	DRAWING NO. P-13.10 Sheet 1 of 2

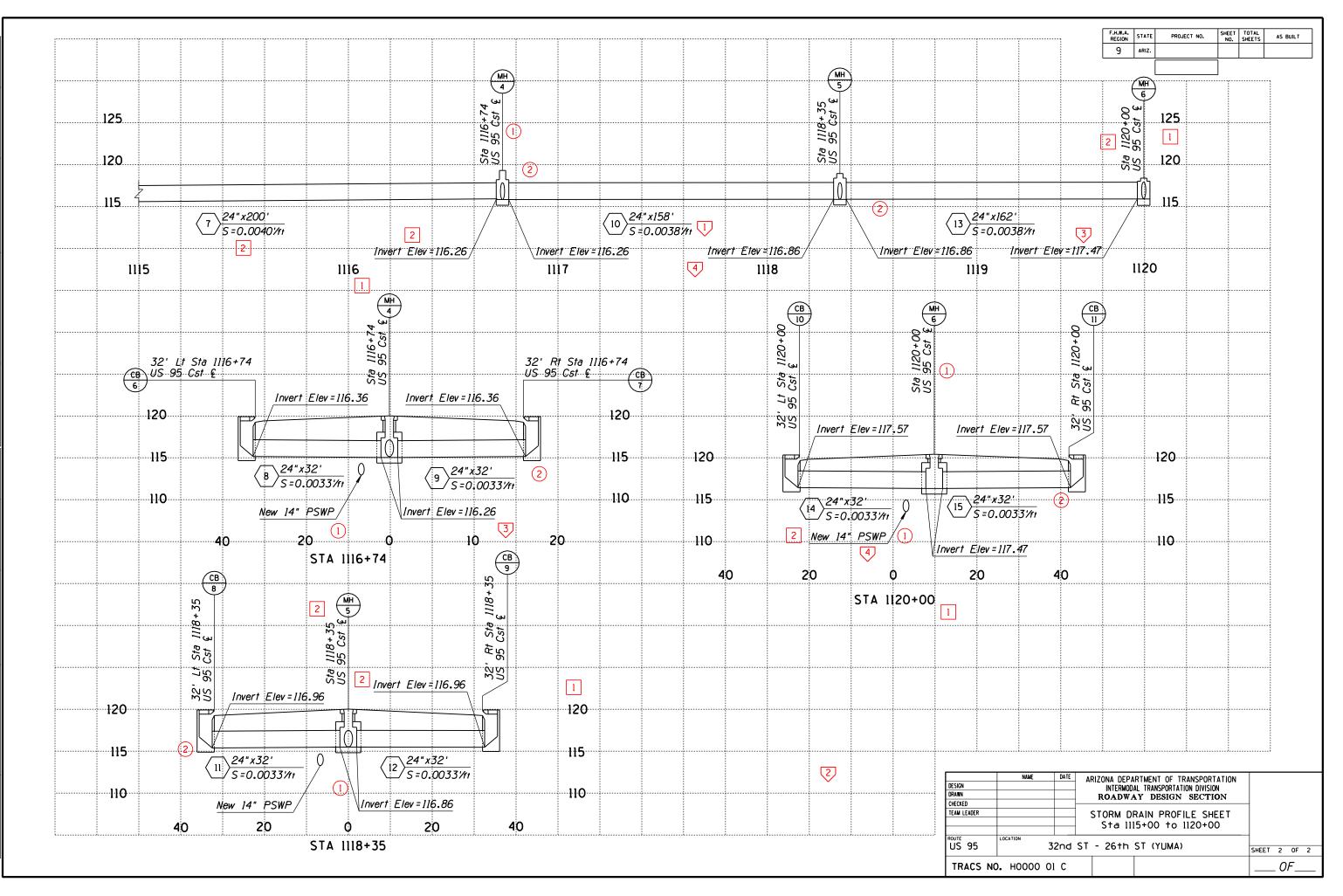


P-13.10 STD

			1	1		ADD TEXT PARAMETERS	·					
	Reference No.	LV/CO=	FT=	TX=	W T =	LS= TJ=	Comments					
	1	62	1	20	6	- CB Use data	fields supplied with cell					
	2	39	23	17.5	4	8.75 LB						
					-	GRAPHIC PARAMETERS						
	Reference No.	LV/CO=	WT=	LC=			Comments					
		38	3	0								
	2	•	1	0	• Dim pla	ension or Leader Line L ced for that item	LV/CO shall match the LV/CO of the text					
									1	JSER NOTES		
								Reference No.			ments	
									Show slope in feet per foot to		es	
ন্থিৰ								2	Show elevations to 2 decimal pla			
								3	See Std P-00.61 for Leader Line			
								4	See Std P-00.70 for Profile She	et Overlay		
	NOTE: Do not use I	ine Termi.	nators	to ca	allout e	levations						
	NUTE: Do not use i NOTE: For project Abbreviations: LV FT T) W LS T,	related s	heet, s	see St	andard							
	Abbreviations: L\ CC	/ - LEVEL) - COLOR				- Text Reference Callou	ut Units of Measure for 'TX=' and 'L	S=' are expressed in	n feet, (scale - 1"=100')	APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION	REV.
	F1 T>	- FONT - TEXT S	IZE			- Graphic Reference Ca	using ADOT's Standard Working Ur	its			ROADWAY DESIGN SECTION DRAFTING GUIDES	
	۳. ۲	F - LINE WE	EIGHT ACING		∇	- User Note Reference	e Callout			SAMPL	E STORM DRAIN PROFILE SHEET URBAN FREEWAY CROSSROAD	DRAWING NO. P-13.15
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						C	CADD TI	EXT PA	ARAMETERS					
	Reference No		LV/CO=	FT=	TX=	W T =	LS=	TJ=	Comments					
	1		62	1	20	6	11	СВ	Use data fields supplied with cell					
	2		39	23	17.5	4	8.75	LB						
							СВУБН		RAMETERS					
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	Reference No	<u>, ()</u>	LV/CO=	W I =			mensior	n or Le	Comments eader Line LV/CO shall match the LV/CO of the text t item					
	2		38	3	0	pl.	aced fo	or tha	t item					
Π														
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Π										4	See Std P-00.61 for Leader Line			
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	NOTE: Do no	t use	Line Ter	minato	rs to	callou [.]	t eleva [.]	tions						
	NOTE: For p	roject	t related	shee†	s, see	Stand	dards P	-02.30,	P-02.31, P-07.30, P-08.30, & P-12.20					
	Abbreviatior	ns: LV	- LEVEL									APPROVED FOR DISTRIBUTION	STATE OF ARIZONA	REV.
		CO F T	- COLOR - FONT	175			_		erence Callout Units of Measure for 'TX=' and 'LS using ADOT's Standard Working Uni	=' are expressed in ts	teet, (scale - 1"=100')		DEPARTMENT OF TRANSPORTATIO ROADWAY DESIGN SECTION	N
	NOTE: For p Abbreviation	UX WT LS	- LINE WE	EIGHT		して			ererence callout e Reference Callout			SAMPLE S	DRAFTING GUIDES	DRAWING NO.
1		ŤĴ	- TEXT JI	JSTIFIC	ATION	Ň							TORM DRAIN FOR URBANIZED AREA STORM DRAIN & X-DRAIN	P-13.20 Sheet 1 of 2



STD P-13.20