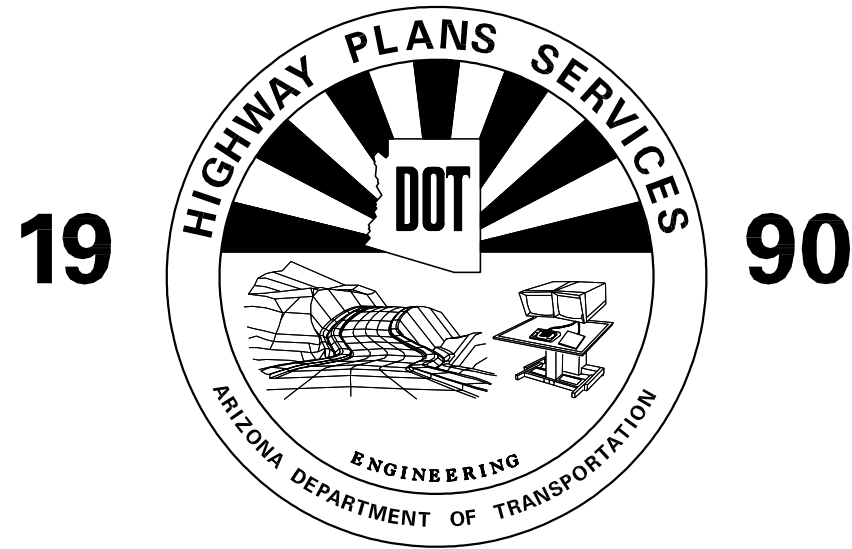


STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION



DRAFTING GUIDES

FOR USE IN

OFFICE AND FIELD

DRAFTING GUIDES
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DESCRIPTION OF REVISION					
NO.	DATE	BY	CHKD	APPD	REMARKS
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APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS	
SHEET INDEX		DRAWING NO. P-00.01

CONTENTS

1-1 GENERAL

- 1-1.1 Introduction
- 1-1.2 Standards

1-2 SHEET PREPERATION

- 1-2.1 General
- 1-2.2 Drawing Format Order
- 1-2.3 General Drafting Practices

1-1 GENERAL

1-1.1 Introduction

The "Drafting Guide for use in Office and Field" is intended to be used 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 projected goal of these Drafting Guides is to maintain consistency and uniformity in the appearance of the prepared project plans.

This guide was created for the purpose of assisting design personnel in the preparation of the plans through the use of the CADD system. This is due to the commitment of Highway Plans Services to utilize the CADD system for 100% of the drafting required for the construction project plans.

The department realizes certain plans will be prepared using manual methods. For this purpose, additional fields have been shown within the guides for the manual preparation of the 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 will 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, will not be able to cover everything which may be desired or 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 manuals. The "Drafting Guides for use in Office and Field", and updates, will be distributed by ADOT's Engineering Records.

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 necessary for the contractor to build the item. The details, if necessary, should be kept simple, yet containing all pertinent information. The usage of special details should be kept minimal, refering 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" x 36" overall. They shall be of reproducible paper, linen, or plastic. 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
- (3) Design Sheet(s)
- (4) Barrier Summary Sheet(s)
- (5) New Pipe Summary Sheet(s)
- (6) Pipe Extension Summary Sheet(s)
- (7) Box 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 Sht(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 Sht(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

Lettering

1) All lettering should follow the basic principles of single stroke Gothic style, either vertical or slant. Back slant is not acceptable. The lettering may be accomplished by means other than freehand. Mechanical means, such as Leroy or by other templates, are acceptable. Slant lettering shall have a 22.5, plus or minus, degree angle from the right side of vertical.

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

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

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

Line Work

Standard P-00.60 shows the allowable line thickness and the associated ink pen equivalent. Line work shall be uniform throughout the drawings.


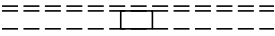
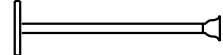
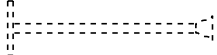


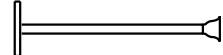
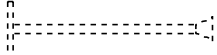


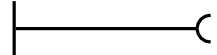
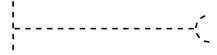

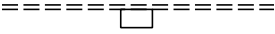
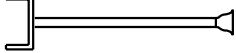
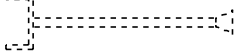


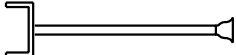
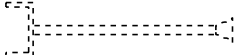
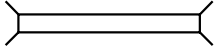
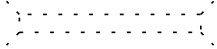
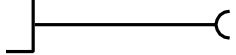
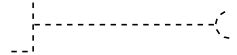
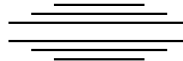

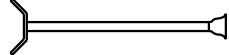

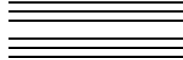

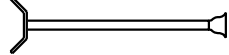
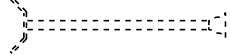
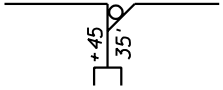

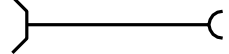
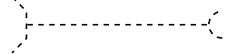
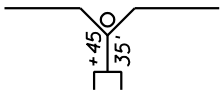

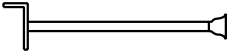
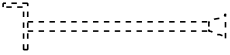


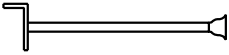
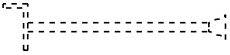


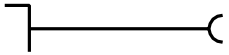
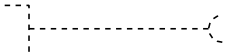

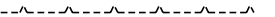
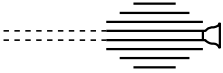


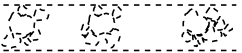
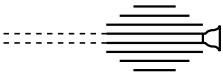

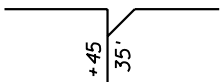
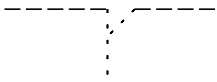
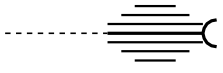

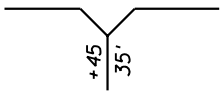

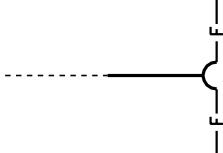

NO.					
	DESCRIPTION OF REVISION				

WORDS	ABBREVIATION	WORDS	ABBREVIATION	WORDS	ABBREVIATION
A		B (cont)		C (cont)	
Abutment	Abt	Bituminous	Bit	Corrugated High Density Polyethylene Plastic Pipe	CHDPEPP
Acceleration	Acc	Bituminous Mixture	Bit Mix	Corrugated Steel Pipe	CSP
Acres	Ac	Bituminous Surface Treatment	BST	Corrugated Steel Pipe Arch	CSPA
Aggregate	Agg	Bituminous Treated Base	BTB	County	Co
Aggregate Base	AB	Black Steel Pipe	BSP	Crossing	X-ING
Ahead	AHD, Ahd	Borrow	Bor	Cross Section	X-SECT
Alternate	Alt	Boulevard	BLVD, Blvd	Crown	Cr
Aluminum	Al	Boundary	Bdry	Cubic	Cu
American Association of State Highway and Transportation Officials	AASHTO	Brass Cap	BC	Cubic Feet Per Second	CFS
American Concrete Institute	ACI	Breakaway Cable Terminal	BCT	Cubic Yard or Cubic Yards	CY, Cu Yd
American Institute of Steel Construction	AISC	Bridge	Br	Culvert	Culv
American Road and Transportation Builders Association	ARTBA	Building	Bldg	Curb and Gutter	C&G
		C		Curve to Spiral	CS
		Calculated	Calc	D	
		Cast-In-Place	C-I-P	Deceleration	Dcl
American Society for Testing Materials	ASTM	Cast Iron	CI	Deflection	Def
Amount	Amt	Cast Iron Pipe	CIP	Deflection of Total Curve	I
Approach	Appr	Catch Basin	CB	Degree of Curve	D
Approximate	Approx	Cattle Guard	CG	Delineator	Del
Asphalt	Asph	Cement	Cem	Delta	Δ
Asphalt Rubber	AR	Cement Treated Base	CTB	Depressed Curb	DC
Asphalt Rubber ACFC	ARACFC	Center	Ctr	Design Speed	Des Spd
Asphaltic Concrete	AC	Center Line	℄	Detail	D+I
Asphaltic Concrete Base	ABC	Center to Center	C to C	Diameter	Dia
Asphaltic Concrete Friction Course	ACFC	Channel	Chan	Distance	Dist
Asphaltic Concrete Surface Course	ACSC	Class	Cl	Division	Div
Avenue	AVE, Ave	Clear	Clr	Double	DbI
Average Daily Traffic	ADT	Column	Col	Drain or Drainage	Drn
B		Compact or Compaction	Comp	Drainage Area	DA
Back	BK, Bk	Complete In Place	C in P	Drawing	Dwg
Backfill	Bkfl	Concrete	Conc	Drive	Dr
Balance	Bal	Concrete Box Culvert	CBC	Driveway	Dwy
Bank Protection	BP	Concrete Treated Base	CTB	Ductile Iron Pipe	DIP
Barbed Wire	Bank Prt	Connection	Conn	E	
Bearing	BW	Conduit	Cond	Each	Ea
Begin	Brg	Construct or Construction	Cst	Easement	Esmt
Begin Curb Return	Bgn	Continuous	Cont	East	E
Begin Full Super	BCR	Coordinate	Coord	Eastbound	EB
Bench Mark	BFS	Corner	Cor		
Bevel or Beveled	BM	Correction	Corr		
	Bev				
				APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS
				GENERAL ABBREVIATIONS	
				DRAWING NO. P-00.20 Sheet 1 of 3	

NO.				
	1	2	3	4

WORDS	ABBREVIATION	WORDS	ABBREVIATION	WORDS	ABBREVIATION
E (cont)		G (cont)		M (cont)	
Edge of Pavement	EP	Ground	Gnd	Mile or Miles	MI
Electric, Electricity	Elec, E	Ground Compaction	Gnd Comp	Mile Post	MP
Elevation	Elev	Grubbing	Grb	Miles Per Hour	MPH
Embankment	Emb	Guard	Grd	Mineral Aggregate	MA
End Curb Return	ECR	Guard Rail	GR	Minimum	Min
End Full Superelevation	EFS	Guard Rail Extruder Terminal	GET	Miscellaneous	Misc
Engineer	Engr	H		Modify or Modified	Mod
Entrance	Ent	Headwall	Hdwl	Monument	Mon
Equation	EQ, Eq	Height	Ht, H, h	Mountain	Mt
Estimate	Est	Height of Instrument	HI	N	
Excavation	Exc	Head Water	HW	National	Natl
Existing	Exst	Highway	Hwy	Non-Reinforced Cast-In-Place	NRCIPCP
Expansion Joint	Exp Jt	Horizontal	Horz	Concrete Pipe	
Extend or Extension	Ext	Horizontal Elliptical Reinforced	HERCP	Normal Crown	NC
External	Ext	Concrete Pipe		North	N
F		I		Northbound	NB
Federal	Fed	Improvement	Impr	Number	No
Feet or Foot	Ft	Inch or Inches	In	O	
Feet per Foot	/ft	Include, Included or Inclusive	Incl	Obliterate	Obl
Feet Per Second	FPS	Inside Diameter	ID	Original	Orig
Figure	Fig	Invert	Inv	Outside Diameter	OD
Finish	Fin	Irrigation	Irr	Overhead	OH
Floor	Fl	J		Overpass	OP
Flow Line	FL	Joint	Jt	P	
Footing	Ftg	Junction	Jct	Parkway	Pkwy
Forest	Fst	L		Pavement	Pvmt
Found	Fnd	Laboratory	Lab	Pedestrian	Ped
Frame	Fr	Lateral	Lat	Place	Pl
Freeway	Fwy	Left	Lt	Point	Pt
Frontage	Frt	Length or Length of Curve	L	Point of Compound Curvature	PCC
Furnish or Furnished	Furn	Length of Normal Crown Removal	L _C	Point of Curvature	PC
Future	Fut	Length of Spiral	Ls	Point of Intersection	PI
G		Length of Superelevation Runoff	L _S	Point of Reverse Curvature	PRC
Gas	G	Line	Ln	Point of Tangency	PT
Gas Meter	GM	Linear or Lineal	Lin	Point on Curve	POC
Gas Valve	GV	Linear Feet	Lin Ft	Point on Semi-Tangent	POST
Galvanize or galvanized	Galv	Location	Loc	Point on Spiral	POS
Gauge	Ga	M		Point on Tangent	POT
Government	Gov't	Manhole	MH	Polyethylene	PE
Grade	Gr	Material	Mtl		
Grade Separation	GS	Maximum	Max		
		Median	Med		
			APPROVED FOR DISTRIBUTION		
			STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS		
			GENERAL ABBREVIATIONS		DRAWING NO. P-00.20 Sheet 2 of 3

NO.	DATE	DESCRIPTION OF REVISION

	CONSTRUCTION DRAWING SYMBOLS			CONSTRUCTION DRAWING SYMBOLS	
	NEW FEATURES	EXISTING FEATURES		NEW FEATURES	EXISTING FEATURES
Catch Basin, Curb & Gutter _____			Straight Hdwl w/End Sct, Pipe (l'=20') (All Dia) _____		
Catch Basin, Median Dike _____			Straight Hdwl w/End Sct, Pipe (l'=50' or smaller) (Dia=42" and larger) _____		
Catch Basin, Off Roadway, Flush _____			Straight Hdwl w/End Sct, Pipe (l'=50' or smaller) (Dia=36" and smaller) _____		
Catch Basin, Single Curb _____			"U" Hdwl w/End Sct, Pipe (l'=20') (All Dia) _____		
Cattle Guard _____			"U" Hdwl w/End Sct, Pipe (l'=50' or smaller) (Dia=42" and larger) _____		
Concrete Box Culvert _____			"U" Hdwl w/End Sct, Pipe (l'=50' or smaller) (Dia=36" and smaller) _____		
Dike, Median _____			Wing Hdwl w/End Sct, Pipe (l'=20') (All Dia) _____		
Dike _____			Wing Hdwl w/End Sct, Pipe (l'=50' or smaller) (Dia=42" and larger) _____		
Downdrain, one way _____			Wing Hdwl w/End Sct, Pipe (l'=50' or smaller) (Dia=36" and smaller) _____		
Downdrain, two way _____			"L" Hdwl w/End Sct, Pipe (l'=20') (All Dia) _____		
Manhole _____			"L" Hdwl w/End Sct, Pipe (l'=50' or smaller) (Dia=42" and larger) _____		
Manhole, Frame & Cover, Reset _____			"L" Hdwl w/End Sct, Pipe (l'=50' or smaller) (Dia=36" and smaller) _____		
Retaining Wall _____			Pipe Ext W/End Sct & Berm (l'=20') (All Dia) _____		
Rock Riprap _____			Pipe Ext W/End Sct & Berm (l'=20') (l'=50' or smaller) (Dia=42" and larger) _____		
Spillway, one way _____			Pipe Ext W/End Sct & Berm (l'=20') (l'=50' or smaller) (Dia=36" and smaller) _____		
Spillway, two way _____			Pipe Ext W/End Sct Roadway Widening (l'=20') _____		

APPROVED FOR
DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STANDARD DRAWINGS

DRAWING NO.

SYMBOL LEGEND

P-00.30
Sheet 2 of 4

REVISION	DATE	BY	CHKD	APPD

	CONSTRUCTION DRAWING SYMBOLS			CONSTRUCTION DRAWING SYMBOLS	
	NEW FEATURES	EXISTING FEATURES		NEW FEATURES	EXISTING FEATURES
Plan View, Bituminous Pavement _____			Irrigation Ditch, Concrete _____		
Plan View, Concrete Pavement _____			Irrigation Ditch, Earth _____		
Plan View, Graded Surface _____			Irrigation Line (I"=20') _____		
Plan View, Obliterate Pavement _____			Irrigation Line (I"=100') _____		
Plan View, Wood _____			Overhead Power/Joint Use Line _____		
Section, Asphaltic Concrete Friction Course _____			Overhead Telephone Line _____		
Section, Bituminous Pavement _____			Sanitary Sewer (I"=20') _____		
Section, Concrete _____			Sanitary Sewer (I"=100') _____		
Section, Metal _____			Storm Drain (I"=20') & (I"=50') _____		
Section, Wood _____			Storm Drain (I"=100') _____		
Section, Aggregate Base _____			Street Light and With Mast Arm _____		
Section, Ground Line _____			Telephone/Power Pedestal _____		
Ground Line Profile _____			Utility Pole with Down Guy and Anchor _____		
Barbed Wire Fence & Gate _____			Underground Power/Joint Use Line _____		
Chain Link Fence & Gate _____			Underground Telephone Line _____		
Guard Rail & Breakaway Cable Terminal _____			Water/Gas Meter Box _____		
Gas Line _____			Water/Gas Valve _____		

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS	
	SYMBOL LEGEND	DRAWING NO. P-00.30 Sheet 3 of 4

NO.	DATE	BY	CHKD.	DESCRIPTION OF REVISION

CONSTRUCTION DRAWING SYMBOLS			CONSTRUCTION DRAWING SYMBOLS		
NEW FEATURES		EXISTING FEATURES	NEW FEATURES		EXISTING FEATURES
Water Line			Block Wall (1"=20')		
Drainage Channel			Median Barrier		
Drainage Ditch			Fire Hydrant		
Major Wash			Standpipe		
Minor Wash			Transmission Tower		
℄ Grade, Profile			Windmill		
Hedge			Mail Box		
Palm Tree			Flag Pole		
Shrubbery			North Arrow		
Unclassified Tree					
Sign, Single Post					
Sign, Multiple Post					
Dimensions					
Visible Outlines, Sections, etc...					
Index Contour Line					
Intermediate Contour Line					
Depressed Index Contour Line					
Depressed Intermediate Contour Line					

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS	
	SYMBOL LEGEND	DRAWING NO. P-00.30 Sheet 4 of 4

CADD TEXT PARAMETERS							
Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	18	23	17.5	4	8.75	LB	
2	54	1	22	6	11	CB	
3	18	23	17.5	3	8.75	CB	
4	18	23	15	2	7.5	LB	
GRAPHIC PARAMETERS							
Reference No.	LV/CO=	WT=	LC=	Comments			
1	●	1	0	● LV/CO shall be the same LV/CO as the text placed for the item			
2	17	3	0				
3	17	1	0				
MANUAL TEXT PARAMETERS							
Reference No.	Text Size	Rapidograph Pen Size	Style	Comments			
1 3	No. 6 Ames/ 200 Leroy	2	Slant				
2	No. 7 Ames/ 240 Leroy	3	Straight				
4	No. 5 Ames/ 175 Leroy	0	Slant				
USER NOTES							
Reference No.	Comments						
↓	See Std P-00.60 For Dimension And Leader Line Layout						

Abbreviations:

LV - LEVEL
CO - COLOR
FT - FONT
TX - TEXT SIZE
WT - LINE WEIGHT
LS - LINE SPACING
TJ - TEXT JUSTIFICATION
AC - ACTIVE CELL

- Text Reference Callout
- Graphic Reference Callout
- User Note Reference Callout

▲ See Std P-00.60 Line Weight Table for Manual Construction.

Units of measure for 'TX=' and 'LS=' are expressed in feet, (1" = 100') using ADOT's Standard Working Units.

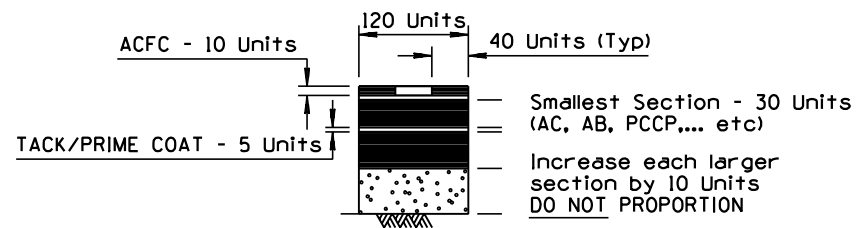
APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STANDARD DRAWINGS

PAVEMENT STRUCTURAL SECTION
LAYOUT & CONSTRUCTION

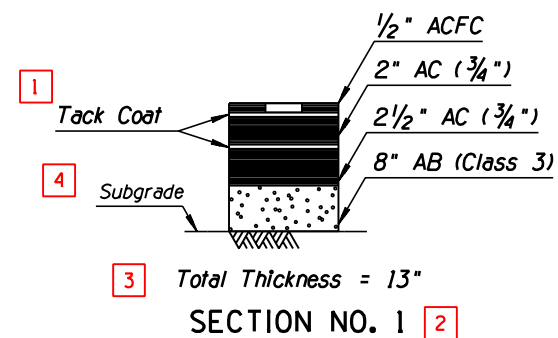
DRAWING NO.
P-00.40
Sheet 1 of 2

REV.

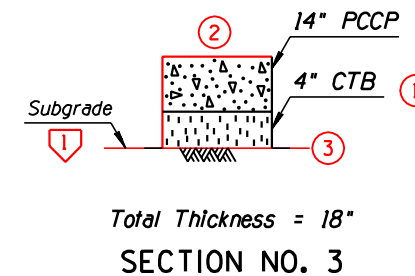


SECTION NO. 1

FIGURE A



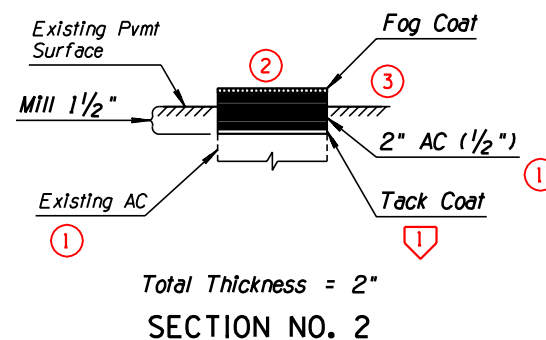
SECTION NO. 1



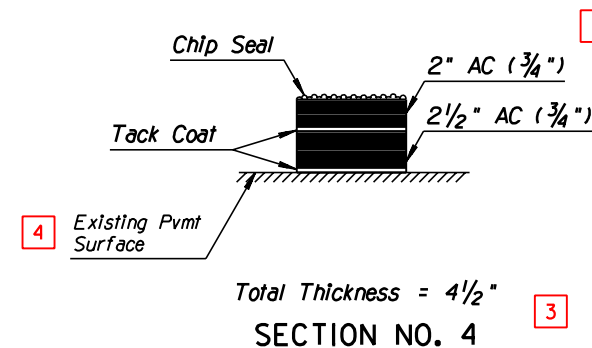
SECTION NO. 3

Drafting Notes

- Pavement structural sections for AC should be filled in with a weight of 3 and a distance of 2.5 units between lines. This will accomplish a blackened symbol when reduced to half size.
- 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.
- The note "Pavement lift thickness is 'nominal' ", when applicable, should be placed in the general notes on the design sheet.
- If the AC removal is to be a known milling operation, the callout should be "Mill". Otherwise the callout 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 2.



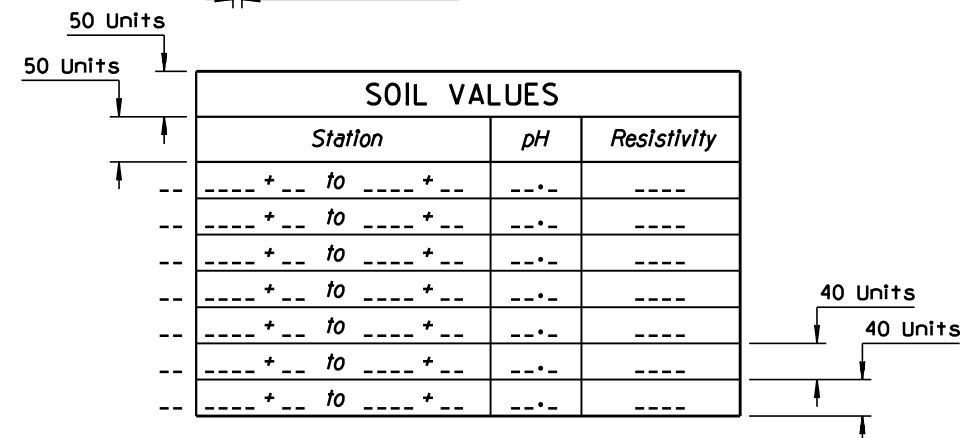
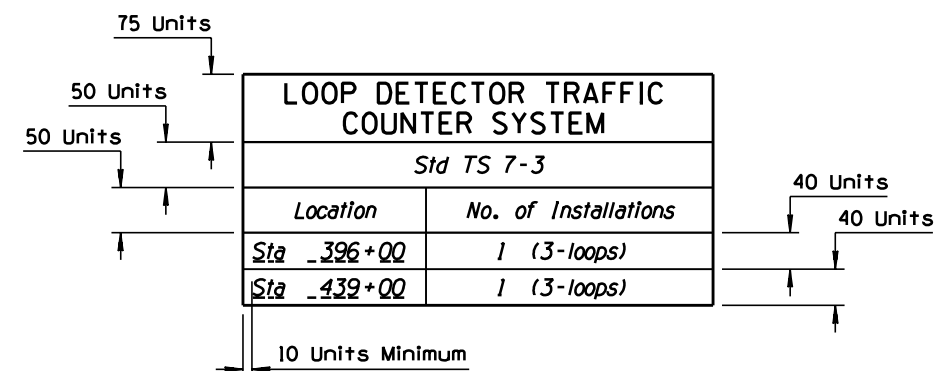
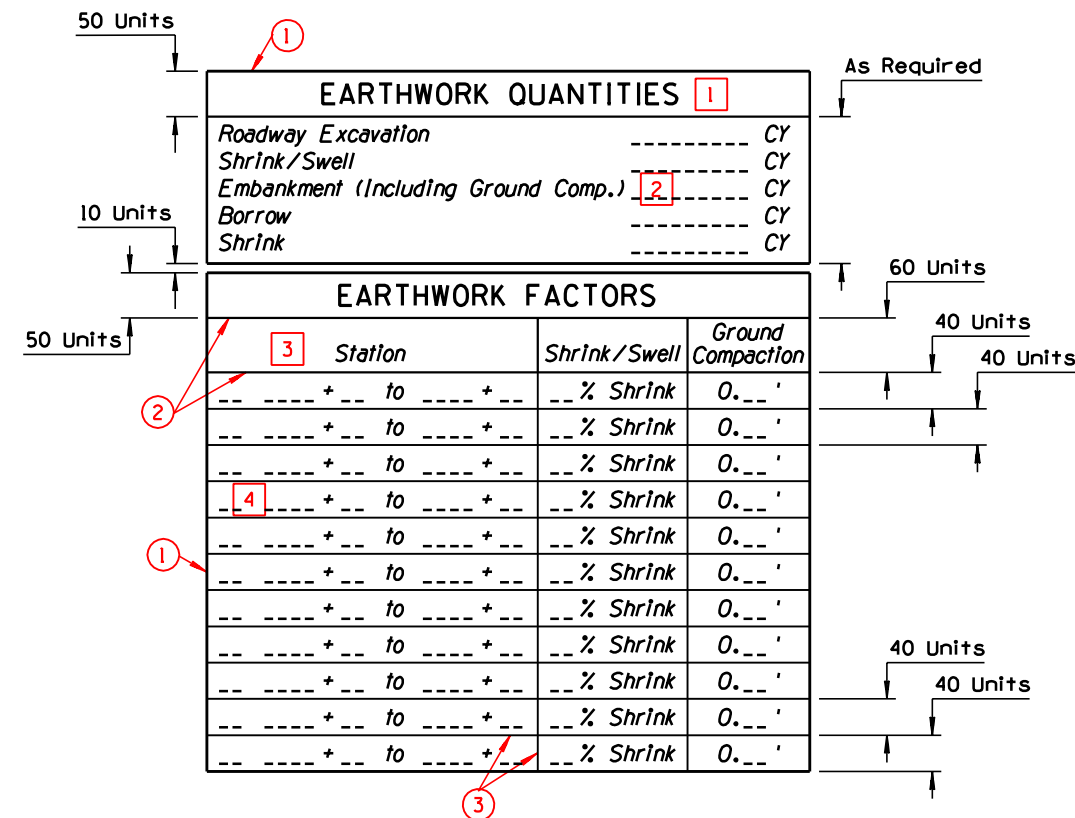
SECTION NO. 2



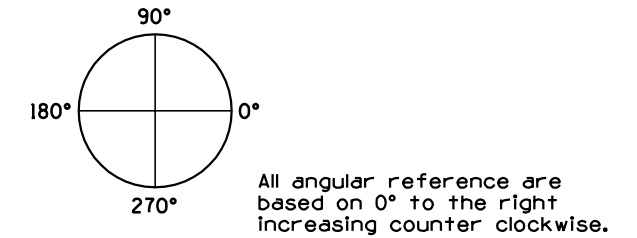
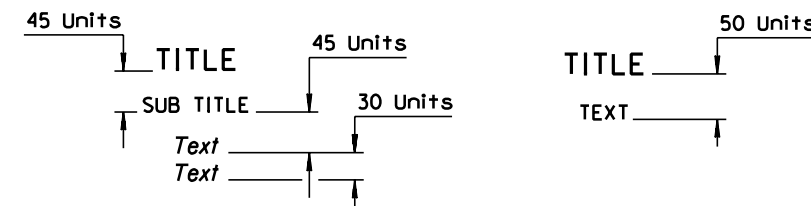
SECTION NO. 4

PAVEMENT STRUCTURAL SECTIONS

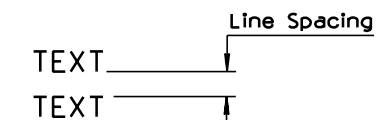
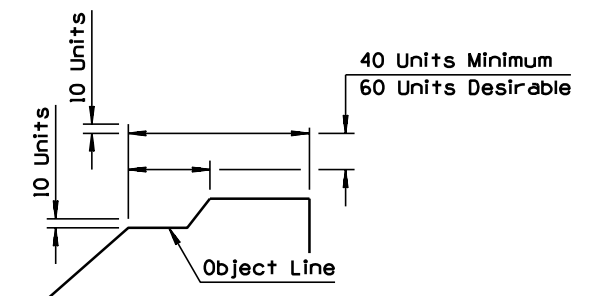
APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS	REV.
PAVEMENT STRUCTURAL SECTION LAYOUT & CONSTRUCTION		DRAWING NO. P-00,40 Sheet 2 of 2



DATA TABLE LAYOUT & CONSTRUCTION



RAPIDOGGRAPH WT	CADD WT	
000	0	_____
00	1	_____
0	2	_____
1	3	_____
2	4	_____
2.5	5	_____
3	6	_____
4	7	_____



LC	
0	
1	
2	
3	
4	(Not In Use)
5	
6	(Not In Use)
7	(Not In Use)

DESCRIPTION OF REVISION				
1				
2				
3				
4				

CADD TEXT PARAMETERS							
Reference No. <div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	54	30	50	0	-	LB	See user note #1
<div>2</div>	54	30	100	0	-	LB	See user note #1
<div>3</div>	54	1	22	6	11	CB	
<div>4</div>	54	1	15	4	-	CB	

GRAPHIC PARAMETERS							
Reference No. <div></div>	LV/CO=	▲WT=	LC=	Comments			

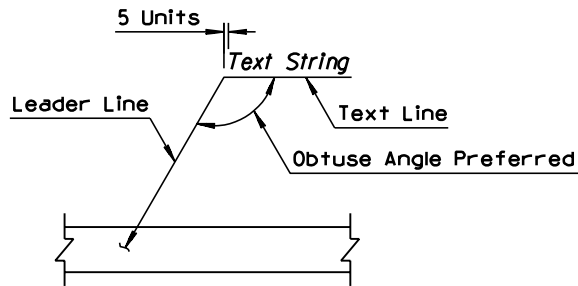
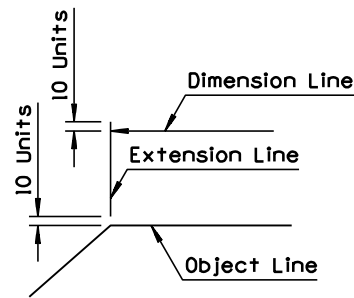
Reference No. <div></div>	LV/CO=	▲WT=	LC=	Comments

USER NOTES							
Reference No. <div></div>	Comments						
<div>1</div>	For systems which can not support Intergraph's BITSTREAM CELL LIBRARIES, use the						
	equivalent to Intergraph font 42. Shade the block letters with lines using a weight						
	of 4 and spaced at 2 units apart.						

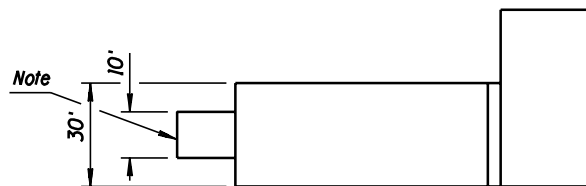
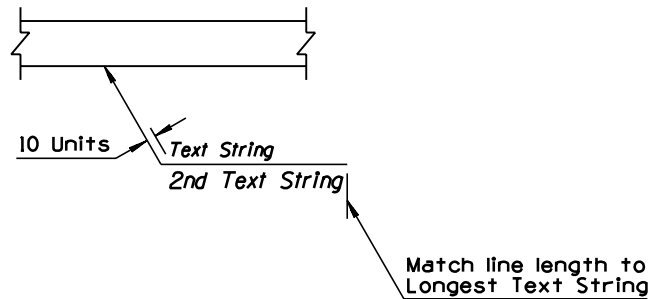
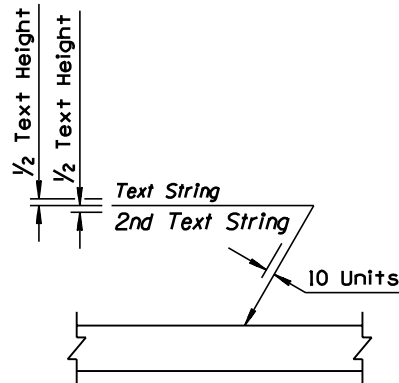
MANUAL TEXT PARAMETERS				
Reference No. <div></div>	Text Size	Rapidograph Pen Size	Style	Comments
<div>1</div>	1"	<div></div>	Straight	<div></div> Use Method as Required to Acheive Desired Results
<div>2</div>	½"	<div></div>	Straight	<div></div> Use Method as Required to Acheive Desired Results
<div>3</div>	No 7 Ames/ 240 Leroy	3	Straight	
<div>4</div>	No 5 Ames/ 175 Leroy	2	Straight	

MANUAL TEXT PARAMETERS				
Reference No. <div></div>	Text Size	Rapidograph Pen Size	Style	Comments
<div>1</div>	1"	<div></div>	Straight	<div></div> Use Method as Required to Acheive Desired Results
<div>2</div>	½"	<div></div>	Straight	<div></div> Use Method as Required to Acheive Desired Results
<div>3</div>	No 7 Ames/ 240 Leroy	3	Straight	
<div>4</div>	No 5 Ames/ 175 Leroy	2	Straight	

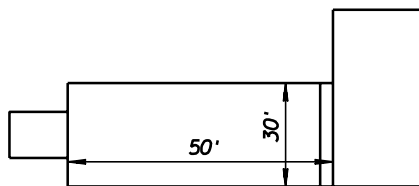
Reference No. <div></div>	Comments
<div>1</div>	For systems which can not support Intergraph's BITSTREAM CELL LIBRARIES, use the
	equivalent to Intergraph font 42. Shade the block letters with lines using a weight
	of 4 and spaced at 2 units apart.



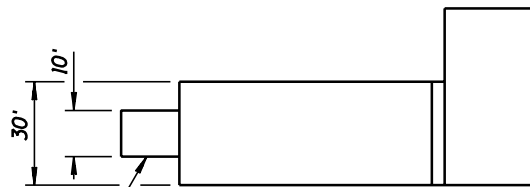
Angle of leader lines should remain constant throughout the sheet



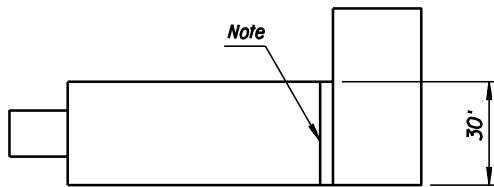
Break leader & extension lines when crossing dimension lines



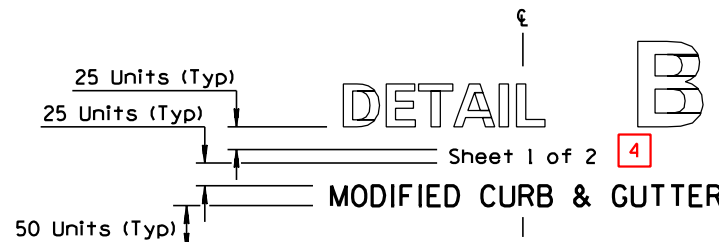
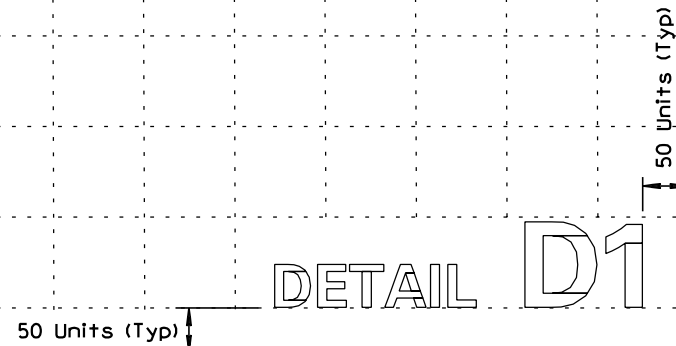
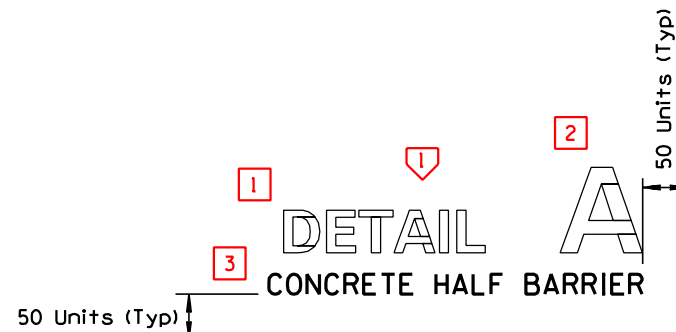
Do not break dimension lines that cross



Break extension lines when crossing leader lines

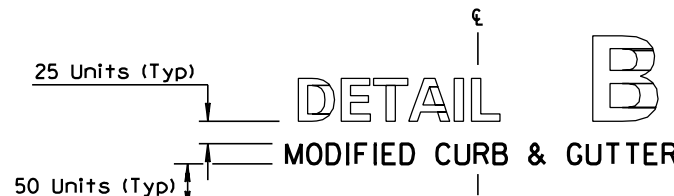


Do not break object line for leader or extension line crossing



DESIGN	NAME	DATE		
DRAWN				
CHECKED				
TEAM LEADER				
ROUTE	LOCATION			
			SHEET	OF

TRACS NO. OF



DESIGN	NAME	DATE		
DRAWN				
CHECKED				
TEAM LEADER				
ROUTE	LOCATION			
			SHEET	OF

TRACS NO. OF

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS	DRAWING NO. P-00.61 Sheet 2 of 2
DETAIL FORMAT LAYOUT AND LEADER LINE CONSTRUCTION		

CADD TEXT PARAMETERS							
Reference No.	LV/CO=	FT=	TH/TW	WT=	LS=	TJ=	Comments
1	63	1	10/7	2	-	LC	
2	62	1	10	2	-	LC	Use text node supplied with cell.
3	63	1	13/11	3	7	CC	
4	63	7	20	3	-	CC	
5	62	1	15	4	10	CC	Use text node supplied with cell.
6	63	1	7	1	-	CC	
7	63	1	10	2	-	LC	
8	62	1	15	4	-	LC	Use text node supplied with cell.
9	63	23	20	4	-	CC	
10	63	1	8	2	7	CC	
11	62	1	15	3	-	CC	Use text node supplied with cell.
12	62	1	15/13.5	3	-	CC	Use text node supplied with cell.
13	62	1	8	2	-	LC	Use text node supplied with cell.
14	62	1	20	6	-	CC	Use text node supplied with cell.

MANUAL TEXT PARAMETERS				
Reference No.	Text Size	Rapidograph Pen Size	Style	Comments
1 2 7	No. 3 Ames/100 Leroy	0	Straight	
3	No. 4 Ames/140 Leroy	1	Straight	
4	Special		Special	Not Required by Consultants
5 8	No. 5 Ames/175 Leroy	2	Straight	
6	No. 2 Ames/80 Leroy	00	Straight	
9	No. 6 Ames/200 Leroy	2	Slant	
10 13	No. 2 Ames/80 Leroy	0	Straight	
11 12	No. 5 Ames/175 Leroy	1	Straight	
14	No. 7 Ames/200 Leroy	3	Straight	

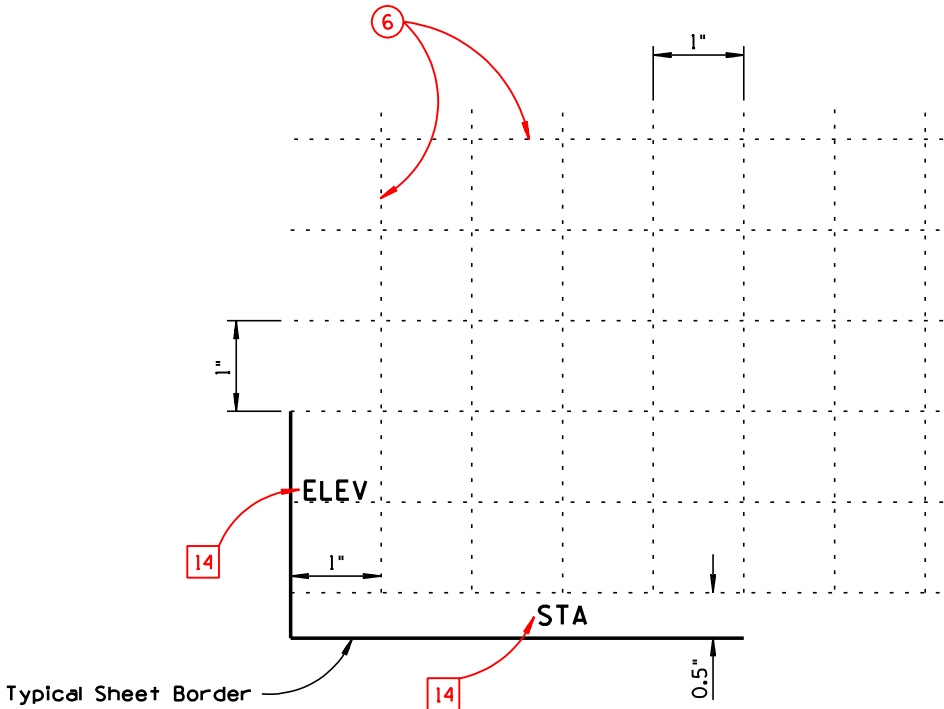
GRAPHIC PARAMETERS				
Reference No.	LV/CO=	▲WT=	LC=	Comments
1	63	5	0	
2	63	0	0	
3	63	1	0	
4	63	4	0	
5	63	2	0	
6	60	1	1	

Abbreviations: LV - LEVEL
CO - COLOR
FT - FONT
TX - TEXT SIZE
WT - LINE WEIGHT
LS - LINE SPACING
TJ - TEXT JUSTIFICATION
AC - ACTIVE CELL

- Text Reference Callout
- Graphic Reference Callout
- User Note Reference Callout

▲ See Std P-00.60 Line Weight Table for Manual Construction.

Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units.



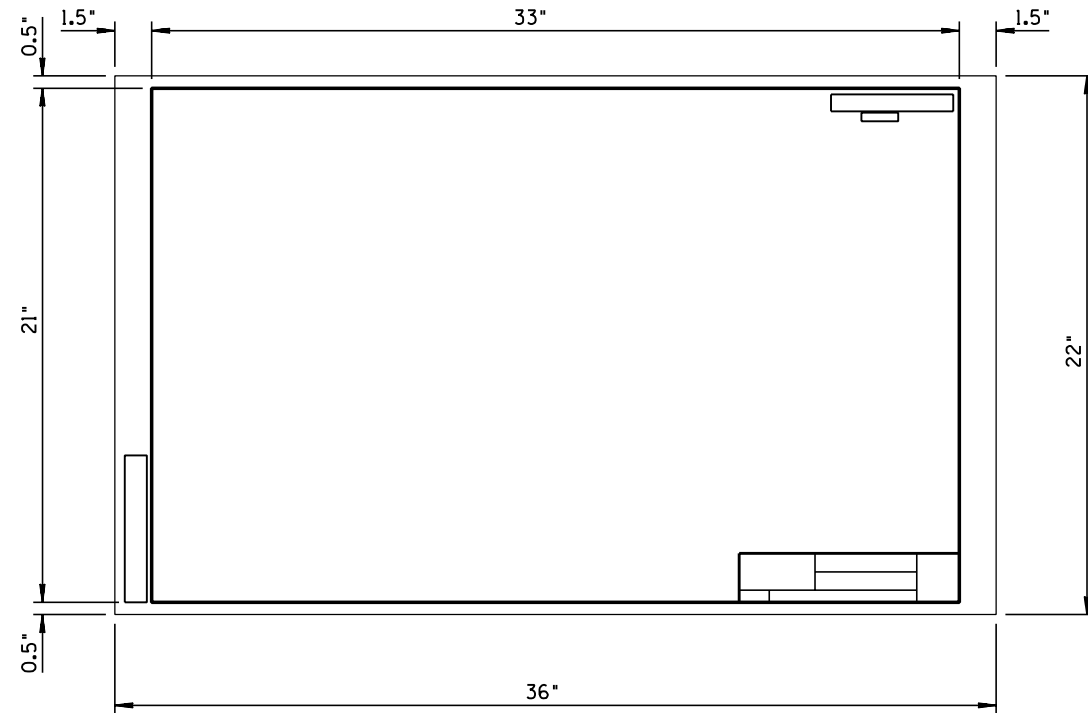
Reference No.	Comments
1	ADOT Prefix Number
2	When using cell, the project number may require reduction
3	Optional initial area
4	To place overlay, place origin at center of plan sheet
5	Registrant Seal
6	Sheet Description
7	County Number after job has gone to bid
8	Project Number after job has gone to bid
9	Total of sheets filed after job has gone to bid
10	Use these fields to sequence each sheet as shown in the INDEX OF SHEETS.

APPROVED FOR DISTRIBUTION

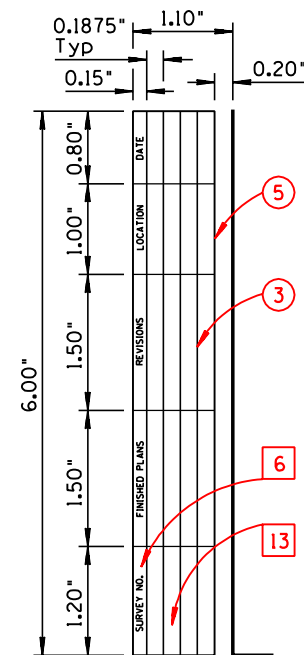
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STANDARD DRAWINGS

SHEET LAYOUT

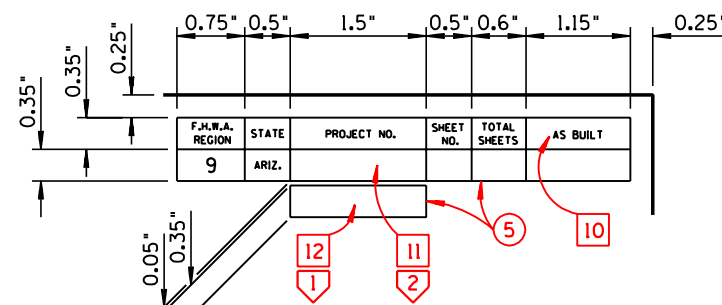
DRAWING NO.
P-00.70
Sheet 1 of 2



STANDARD PLAN SHEET



REVISION & SURVEY BLOCK LAYOUT
Lower Left Corner



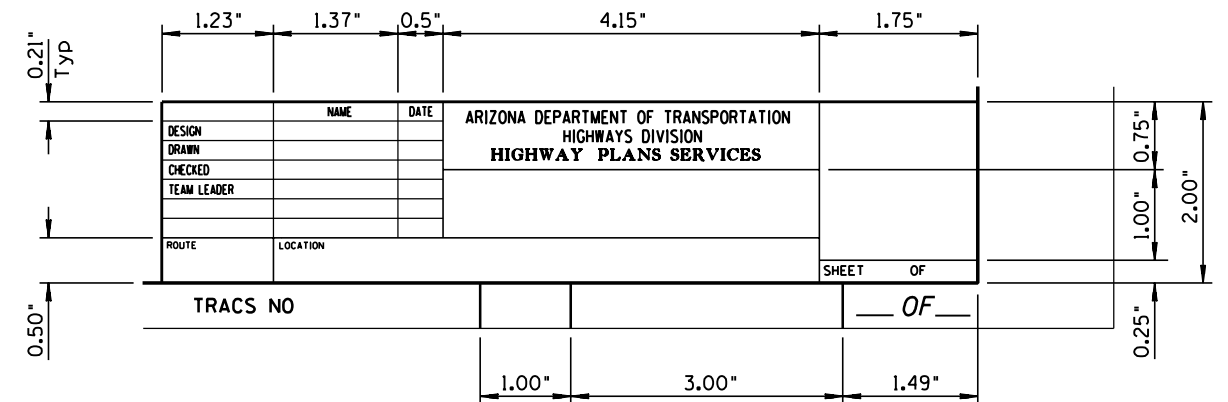
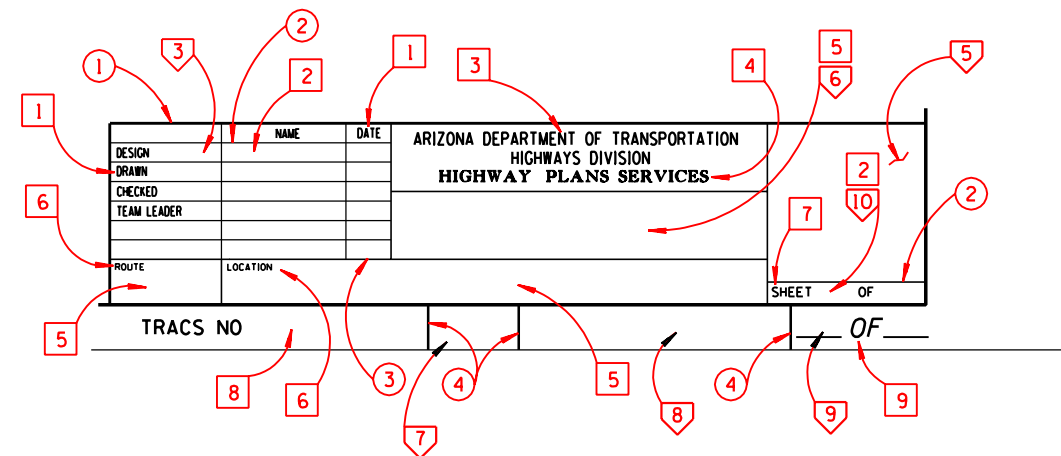
PROJECT NUMBER BLOCK LAYOUT
Upper Right Corner

Consultant's Logo

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DRAWN				
CHECKED				
ROUTE	LOCATION			SHEET OF
TRACS NO				OF

NOTE: Use same dimensions and text parameters as shown below.

CONSULTANT VERSION

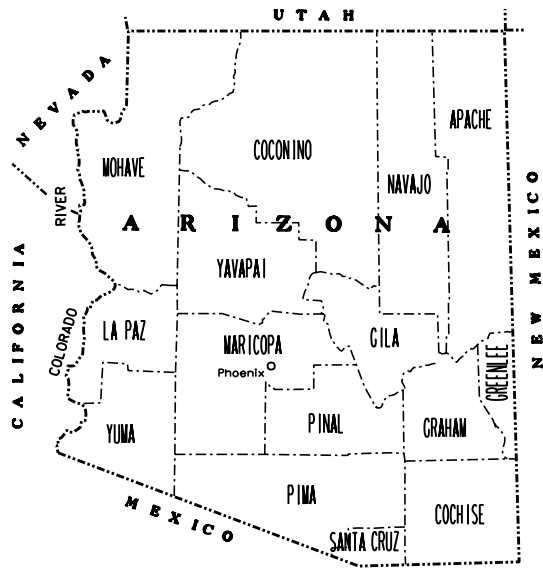


TITLE BLOCK LAYOUT
Lower Right Corner

STATE VERSION

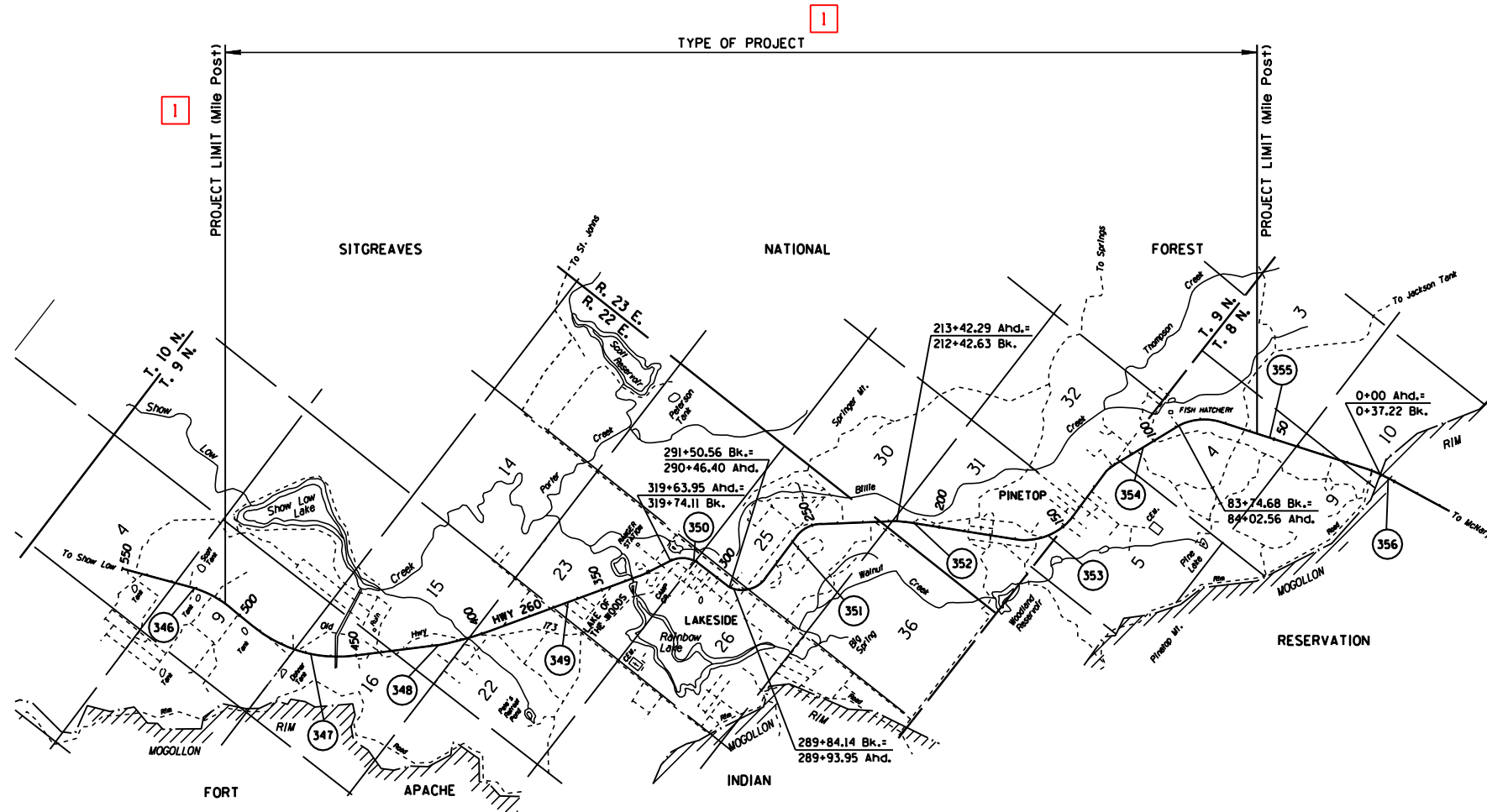
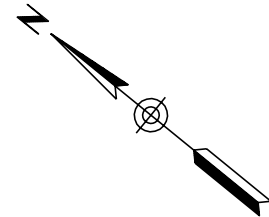
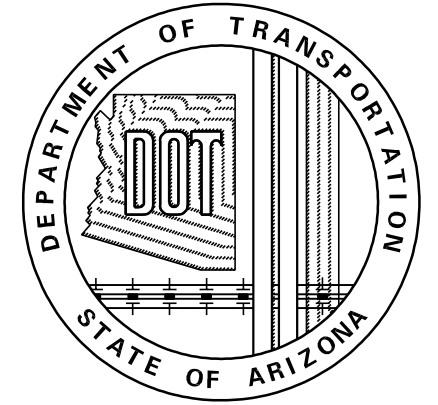
NOTE: All Dimensions on this sheet are based on final plot size.

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS	
SHEET LAYOUT		DRAWING NO. P-00.70 Sheet 2 of 2



STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
HIGHWAY NAME
PROJECT NUMBER
ADOT PREFIX



PROJECT LOCATION

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
APPROVED: EDWARD D. WRIGHT
STATE ENGINEER

APPROVED	DATE
ASSISTANT STATE ENGINEER	

DESCRIPTION OF REVISION				
1				
2				
3				
4				

CADD TEXT PARAMETERS							
Reference No. <div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	55	23	17.5	4	12.5	LB	TJ=LB unless shown otherwise
<div>2</div>	55	23	17.5	4	8.75	LB	Line Spacing between notes shall be 17.5 units
<div>3</div>	54	1	22	6	-	CB	
<div>4</div>	55	1	17.5	4	-	CB	
					-		

GRAPHIC PARAMETERS							
Reference No. <div></div>	LV/CO=	▲WT=	LC=	Comments			

Reference No. <div></div>	LV/CO=	▲WT=	LC=	Comments

NOTE : For project related sheets, see standards: P-02.15; P-02.30; P-06.10							
NOTE : Design Data, Index of Sheets and General Notes Callouts are to be positioned as shown.							

Abbreviations: LV - LEVEL
CO - COLOR
FT - FONT
TX - TEXT SIZE
WT - LINE WEIGHT
LS - LINE SPACING
TJ - TEXT JUSTIFICATION
AC - ACTIVE CELL

- Text Reference Callout
- Graphic Reference Callout
- User Note Reference Callout

▲ See Std P-00.60 Line Weight
Table for Manual Construction.

Units of measure for 'TX=' and 'LS='
are expressed in feet, (scale - 1"=100') using
ADOT's Standard Working Units.

MANUAL TEXT PARAMETERS				
Reference No. <div></div>	Text Size	Rapidograph Pen Size	Style	Comments
<div>1</div> <div>2</div>	No. 6 Ames/ 200 Leroy	2	Slant	
<div>3</div>	No. 7 Ames/ 240 Leroy	3	Straight	
<div>4</div>	No. 6 Ames/ 200 Leroy	2	Straight	

USER NOTES	
Reference No. <div></div>	Comments
<div>1</div>	See Std P-00.70 for Title Block & Project Number Block Layout
<div>2</div>	See Std P-00.60 for Data Table Layout
<div>3</div>	See Std P-00.60 for Text Layout

Reference No. <div></div>	Comments
<div>1</div>	See Std P-00.70 for Title Block & Project Number Block Layout
<div>2</div>	See Std P-00.60 for Data Table Layout
<div>3</div>	See Std P-00.60 for Text Layout

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS	REV.
SAMPLE DESIGN SHEET FOR RURAL DIVIDED ROADWAY		DRAWING NO. P-02.10



3

$$\boxed{1} \quad \begin{array}{l} X = 140,000 \\ Y = 1,090,000 \end{array}$$

1 1990 ADT = 7,350
2010 ADT = 14,350
Min Design Speed = 60 MPH

2

Std TS 7-3

1

Sta 1441 + 84.36 to 1539 + 91.87 Bk = 9,807.51'
Sta 1540 + 03.52 Ahd to 1642 + 24.97 Bk = 10,221.45'
Sta 135 + 39.21 Ahd to 193 + 05.10 = 5,765.89'

Sta 1442 + 00.00 to 1539 + 55.34 = 9,755.34'
Sta 1540 + 03.52 Ahd to 1627 + 68.35 Bk = 8,764.83'
Sta 124 + 88.79 Ahd to 180 + 68.51 = 5,579.72'

2

Roadway Excavation	1,252,270 CR
Shrink	9,871 CR
Embankment (Including Ground Comp.)	1,185,625 CR
Waste	56,774 CR

EARTHWORK FACTORS		
Station	Shrink/Swell	Ground Compaction
NB 1441 + 84 to 1485 + 25	15% Shrink	0.10'
NB 1485 + 25 to 1494 + 62	10% Shrink	0.10'
NB 1494 + 62 to 1542 + 42	15% Shrink	0.10'
NB 1542 + 42 to 139 + 78	10% Shrink	0.20'
NB 139 + 78 to 193 + 10	Even	0.20'
SB 1442 + 00 to 1507 + 54	5% Shrink	0.20'
SB 1507 + 54 to 1568 + 09	5% Shrink	0.10'
SB 1568 + 09 to 1598 + 55	5% Shrink	0.20'
SB 1598 + 55 to 1611 + 32	15% Shrink	0.20'
SB 1611 + 32 to 125 + 89	Even	0.20'
SB 125 + 89 to 180 + 70	Even	0.15'

2

<i>Station</i>	<i>Side</i>	<i>Slope Control</i>
<i>NB 1473 + 00 to 1479 + 50</i>	<i>Both</i>	<i>4:1</i>
<i>NB 1479 + 50 to 1515 + 25</i>	<i>Right</i>	<i>6:1 (Daylight)</i>
<i>NB 1537 + 75 to 1542 + 50</i>	<i>Right</i>	<i>4:1</i>
<i>NB 1586 + 25 to 1630 + 25</i>	<i>Both</i>	<i>3:1</i>
<i>NB 133 + 50 to 162 + 36</i>	<i>Both</i>	<i>6:1 (Daylight)</i>
<i>SB 1445 + 50 to 1472 + 25</i>	<i>Left</i>	<i>3:1</i>
<i>SB 1485 + 75 to 1510 + 50</i>	<i>Both</i>	<i>4:1</i>
<i>SB 1515 + 25 to 1530 + 25</i>	<i>Right</i>	<i>6:1 (Daylight)</i>
<i>SB 1602 + 75 to 150 + 75</i>	<i>Right</i>	<i>4:1</i>

<i>Station</i>	<i>Side</i>	<i>Slope Control</i>
<i>NB 1479 + 50 to 1515 + 25</i>	<i>Left</i>	<i>4:1</i>
<i>NB 1537 + 75 to 1542 + 50</i>	<i>Left</i>	<i>4:1</i>
<i>NB 162 + 50 to 164 + 25</i>	<i>Left</i>	<i>4:1 - 6:1</i>
<i>SB 1445 + 50 to 1472 + 25</i>	<i>Right</i>	<i>2:1</i>
<i>SB 1505 + 50 to 1525 + 75</i>	<i>Both</i>	<i>6:1</i>
<i>SB 1525 + 75 to 1528 + 75</i>	<i>Both</i>	<i>6:1 - C-02.10</i>
<i>SB 150 + 25 to 175 + 25</i>	<i>Right</i>	<i>4:1</i>

SOIL VALUES					
Station	pH	Resistivity	Station	pH	Resistivity
SB 1442 + 25 to 1482 + 49	8.0	520	NB 1442 + 43 to 1496 + 24	7.2	800
SB 1482 + 50 to 1494 + 99	7.4	820	NB 1496 + 25 to 1530 + 31	8.0	760
SB 1495 + 00 to 1517 + 29	7.4	520	NB 1530 + 32 to 1546 + 10	7.4	1280
SB 1517 + 30 to 1536 + 21	7.6	580	NB 1546 + 11 to 1622 + 70	7.2	1000
SB 1536 + 22 to 142 + 75	7.3	600	NB 1662 + 71 to 152 + 64	7.3	680

4 Sheet No.

1

2

2

2

The average project elevation is 4,500'.

_____ OF _____

DESCRIPTION OF REVISION				

CADD TEXT PARAMETERS							
Reference No. <div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	18	23	17.5	4	8.75	LB	
<div>2</div>	25	23	17.5	4	8.75	CB	TJ is CB unless otherwise shown
<div>3</div>	21	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown
<div>4</div>	54	1	22	6	11	CB	

MANUAL TEXT PARAMETERS				
Reference No. <div></div>	Text Size	Rapidograph Pen Size	Style	Comments
<div>1</div> <div>2</div> <div>3</div>	No. 6 Ames/ 200 Leroy	2	Slant	
<div>4</div>	No. 7 Ames/ 240 Leroy	3	Straight	
USER NOTES				
Reference No. <div></div>	Comments			
<div>1</div>	See Std P-00.70 for Title Block & Project Number Block Layout			
<div>2</div>	See Std P-00.40 for Pavement Structural Section Layout & Construction			
<div>3</div>	Show Roadway Cross Slope in feet per foot to 3 Decimal Places			
<div>4</div>	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout			

Abbreviations:

LV - LEVEL

CO - COLOR

FT - FONT

TX - TEXT SIZE

WT - LINE WEIGHT

LS - LINE SPACING

TJ - TEXT JUSTIFICATION

AC - ACTIVE CELL

- Text Reference Callout

- Graphic Reference Callout

- User Note Reference Callout

▲ See Std P-00.60 Line Weight Table for Manual Construction.

Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units.

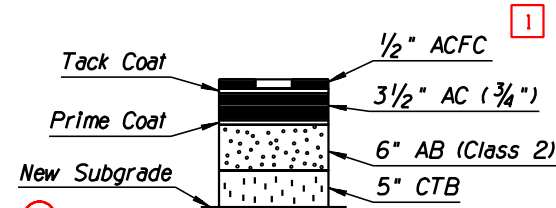
APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STANDARD DRAWINGS

DRAWING NO.
P-02.15

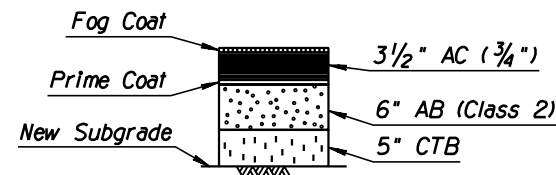
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	F-035-1(8)	3	190	

087 GI 202



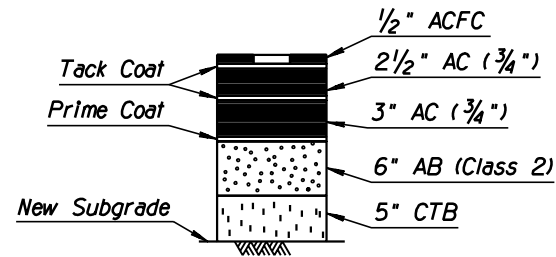
Total Thickness = 15"

SECTION NO. 1



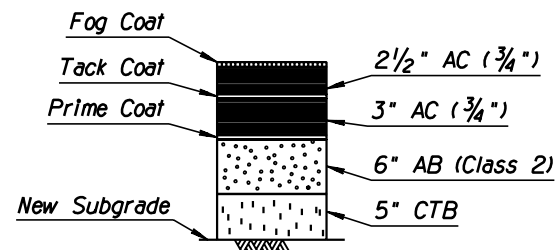
Total Thickness = 14 1/2"

SECTION NO. 2



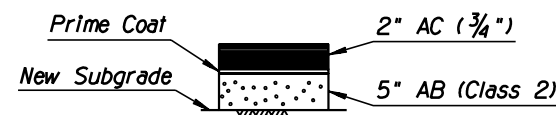
Total Thickness = 17"

SECTION NO. 3



Total Thickness = 16 1/2"

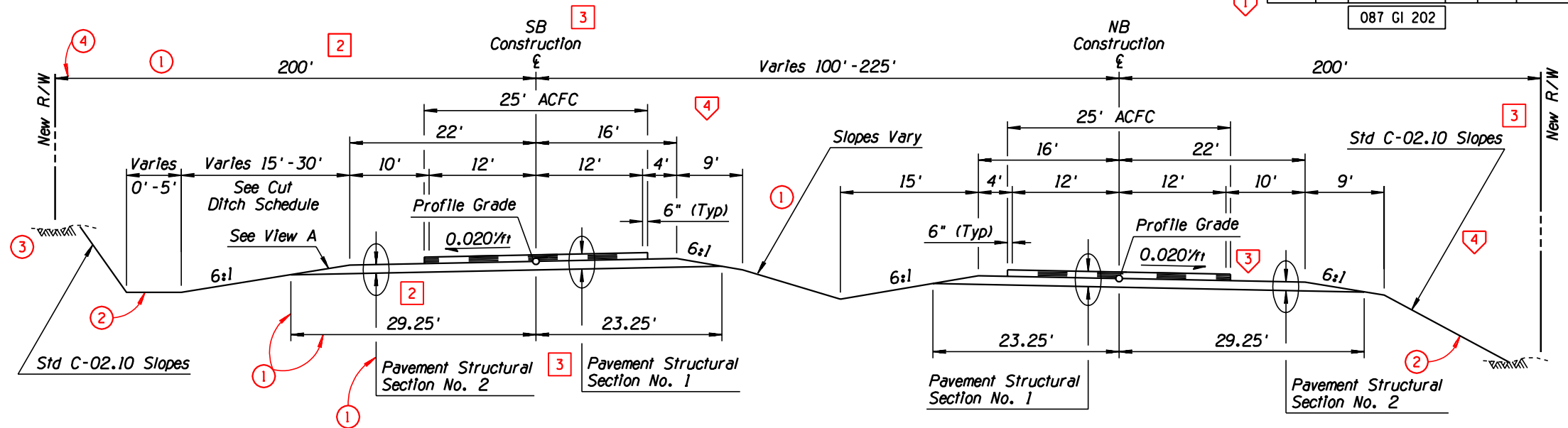
SECTION NO. 4



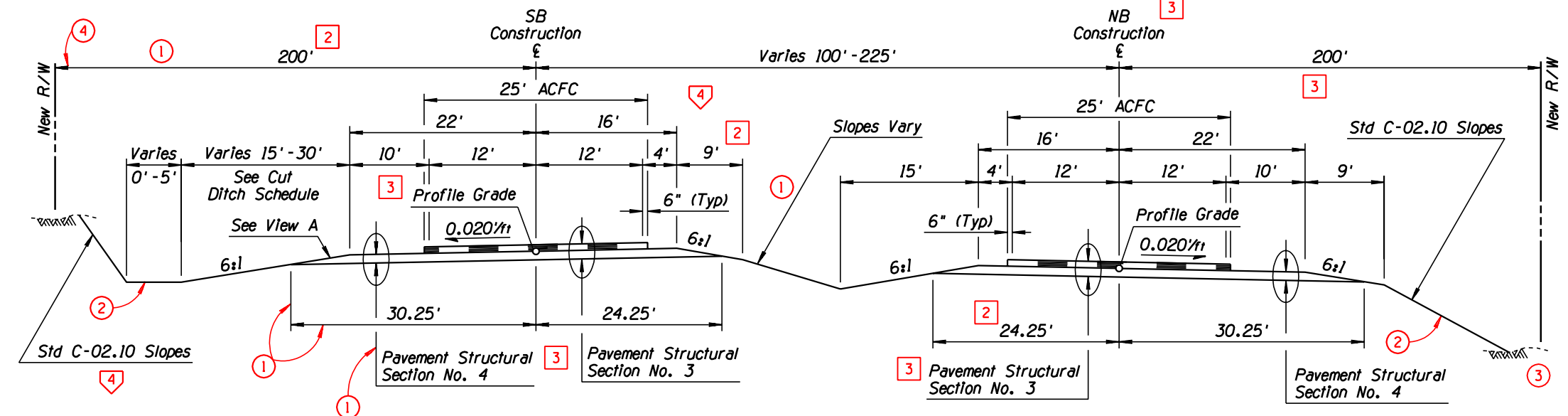
Total Thickness = 7"

SECTION NO. 5

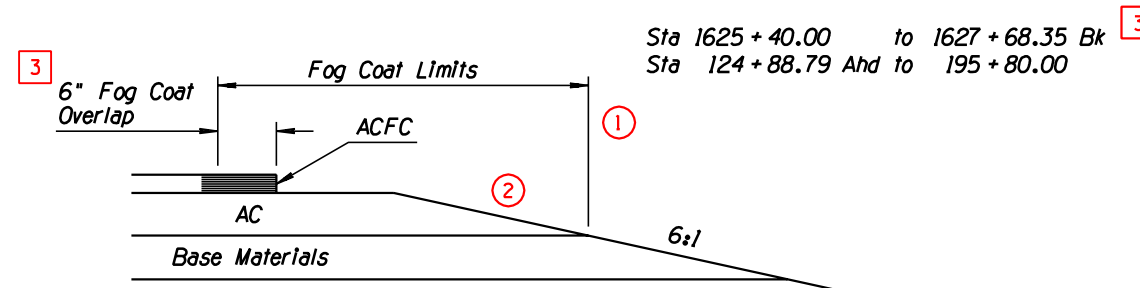
PAVEMENT STRUCTURAL SECTIONS



TYPICAL SECTION



TYPICAL SECTION



FOG COAT APPLICATION
VIEW A

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIGHWAY PLANS SERVICES
DRAWN	T MACBETH	10-90	
CHECKED	M HAUER	10-90	
TEAM LEADER	R DELANO	12-90	
	J BRUBAKER		
ROUTE	SR 87	LOCATION	SUNFLOWER - MAZATZAL

SHEET 2 OF 2

TRACS NO. H0000 01 C

OF

NO.				
DESCRIPTION OF REVISION				

CADD TEXT PARAMETERS							
Reference No. <div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	55	23	17.5	4	12.5	CB	TJ is CB unless shown otherwise
<div>2</div>	55	23	17.5	4	8.75	LB	LS between notes shall be 17.5 units
<div>3</div>	21	23	17.5	4	8.75	CB	
<div>4</div>	54	1	22	6	11	CB	
<div>5</div>	55	1	17.5	4	12.5	CB	
<div>6</div>	18	23	17.5	4	8.75	LB	
<div>7</div>	25	23	17.5	4	8.75	CB	
GRAPHIC PARAMETERS							
Reference No. <div></div>	LV/CO=	▲WT=	LC=	Comments			
<div>①</div>	●	1	0	● LV/CO shall match the LV/CO of Text placed for item			
<div>②</div>	20	3	0				
<div>③</div>	59	1	5				
<div>④</div>	-	-	-	ADOT Standard Line Terminator			
NOTE : For project related sheets, see standards: P-03.20; P-03.30; P-07.20; P-08.20							

MANUAL TEXT PARAMETERS				
Reference No. <div></div>	Text Size	Rapidograph Pen Size	Style	Comments
<div>1</div> <div>2</div> <div>3</div> <div>6</div> <div>7</div>	No. 6 Ames/ 200 Leroy	2	Slant	
<div>5</div>	No. 6 Ames/ 200 Leroy	2	Straight	
<div>4</div>	No. 7 Ames/ 240 Leroy	3	Straight	
USER NOTES				
Reference No. <div></div>	Comments			
<div>1</div>	See Std P-00.70 for Title Block & Project Number Block Layout			
<div>2</div>	See Std P-00.60 for Pavement Structural Section Layout & Construction			
<div>3</div>	See Std P-00.61 for Data Table Layout			
<div>4</div>	Show Roadway Cross Slopes in feet per foot to 3 Decimal Places			
<div>5</div>	See Std P-00.61 for Text Layout			
<div>6</div>	See Stds P-00.60 & P00.61 for Dimension & Leader Line Layout			

Abbreviations: LV - LEVEL
CO - COLOR
FT - FONT
TX - TEXT SIZE
WT - LINE WEIGHT
LS - LINE SPACING
TJ - TEXT JUSTIFICATION
AC - ACTIVE CELL

- Text Reference Callout

- Graphic Reference Callout

- User Note Reference Callout

▲ See Std P-00.60 Line Weight Table for Manual Construction.

Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STANDARD DRAWINGS

SAMPLE DESIGN SHEET FOR
RURAL UNDIVIDED ROADWAY

DRAWING NO.
P-02.20

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	BP-063-2-310	2	63	
095 LP 148					

4 MIDPOINT OF PROJECT

Western Zone

5 State Plane Coordinates

1 X = 298,000
Y = 840,000

4 DESIGN DATA

1 1989 ADT = 2,900
2009 ADT = 5,400
Min Design Speed = 60 MPH

4 LENGTH OF PROJECT

1 Sta 395 + 00.00 to 501 + 90.00 = 10,690.00'
Gross & Net Length = 10,690.00' - 2.02 Miles
Mile Post 125.36 to 127.38

4 INDEX OF SHEETS

Sheet No.	Sheet Type
1	Face Sheet
1A-1B	ADOT Standard Drawings
2-5	Design Sheets
6-7	Barrier Summary Sheets
8	New Pipe Summary Sheet
9	Box Culvert Summary Sheet
10-15	Detail Sheets
16-25	Culvert Detail Sheets
26-28	Construction Phasing Sequence
29-44	Plan & Profile Sheets
45-61	Traffic Sheets
62-63	Structure Sheets

4 GENERAL NOTES

2 The roadway plans have been designed utilizing the 1989 Construction Standard Drawings (C-Series), and current revisions.

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 striping plans.

Changes in location and/or length of spillway installation may be made by the Engineer to improve drainage conditions.

Delineators and object markers shall be furnished and placed by the contractor, as directed by the Engineer.

Bench Markers will be furnished by the State, and placed by the contractor. Std C-21.20.

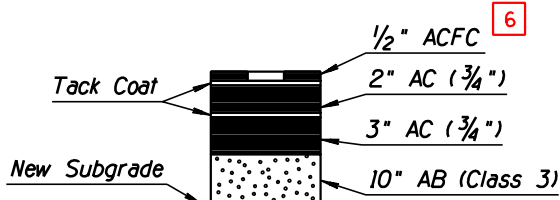
R/W Markers shall be furnished and placed by the contractor, as directed by the Engineer. Std C-21.10.

For R/W information not shown, see Right-of-Way project No. F-063-2-311.

For Superelevation information not shown, see Drawing Series D-56 in the Roadway Design Guides for use in Office and Field - 1986.

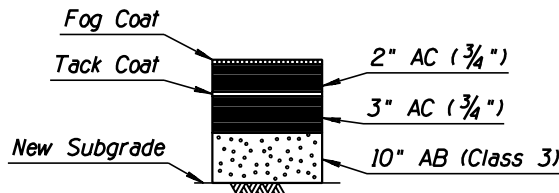
The new pavement shoulders shall be grooved in accordance with Std C-09.10.

The average project elevation is 500'.



Total Thickness = 15 1/2"

SECTION NO. 1



Total Thickness = 15"

SECTION NO. 2

PAVEMENT STRUCTURAL SECTIONS

EARTHWORK QUANTITIES

Roadway Excavation	655,029 CY
Swell/Shrink	+71,942 CY
Drainage Excavation	482 CY
Swell	72 CY
Embankment (Including Ground Comp.)	768,798 CY
Borrow	45,859 CY
10% Shrink	4,586 CY

EARTHWORK FACTORS

Station	Shrink/Swell	Ground Compaction
395 + 00 to 400 + 99	Even	0.00'
401 + 00 to 403 + 00	Even	0.25'
403 + 00 to 406 + 00	15% Swell	0.25'
406 + 00 to 417 + 00	5% Swell	0.25'
417 + 00 to 431 + 00	10% Swell	0.30'
431 + 00 to 440 + 00	15% Swell	0.15'
440 + 00 to 449 + 00	10% Swell	0.15'
449 + 00 to 459 + 00	10% Swell	0.25'
459 + 00 to 464 + 00	5% Shrink	0.25'
464 + 00 to 480 + 00	10% Swell	0.25'
480 + 00 to 501 + 90	15% Swell	0.30'

SOIL VALUES

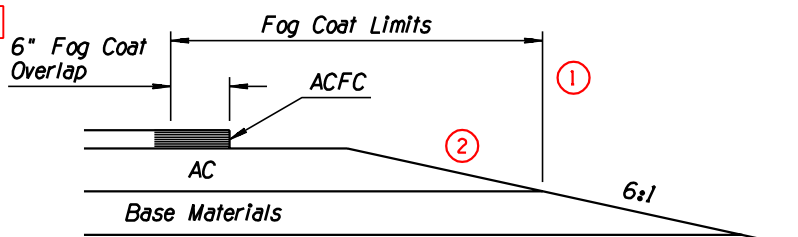
Station	pH	Resistivity
394 + 10 to 398 + 59	7.3	2240
398 + 60 to 409 + 59	7.2	800
409 + 60 to 438 + 79	7.4	480
438 + 80 to 442 + 14	7.2	780
442 + 15 to 451 + 49	7.4	740
451 + 50 to 465 + 24	7.3	520
465 + 25 to 512 + 15	7.2	310

LOOP DETECTOR TRAFFIC COUNTER SYSTEM

Std TS 7-3	
Location	No. of Installations
Sta 396 + 00	1 (3-loops)
Sta 439 + 00	1 (3-loops)

FOG COAT APPLICATION

VIEW A



CADD TEXT PARAMETERS								
Reference No.	<div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>		18	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown
<div>2</div>		18	23	15	2	7.5	LB	
<div>3</div>		54	1	22	6	11	CB	
<div>4</div>		25	23	17.5	4	8.75	CB	
<div>5</div>		21	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown
<div>6</div>		25	23	15	2	7.5	CB	
<div>7</div>		55	23	17.5	4	12.5	LB	TJ is LB unless otherwise shown
<div>8</div>		55	1	17.5	4	12.5	CB	
<div>9</div>		55	23	17.5	4	8.75	LB	Line Spacing between notes shall be 17.5 units
<div>10</div>		21	23	15	2	7.5	LB	

GRAPHIC PARAMETERS							
Reference No.	<div></div>	LV/CO=	▲WT=	LC=	Comments		
<div>1</div>		●	1	0	● LV/CO shall match the LV/CO of Text placed for item		
<div>2</div>		59	1	5			
<div>3</div>		20	3	0			
<div>4</div>		-	-	-	ADOT Standard Line Terminator; Typical		
<div>5</div>		20	1	2			

NOTE: For project related sheets, see standards: P-02.31; P-07.30; P-08.30; P-12.20; P-13.20							
---	--	--	--	--	--	--	--

Abbreviations:

LV - LEVEL

CO - COLOR

FT - FONT

TX - TEXT SIZE

WT - LINE WEIGHT

LS - LINE SPACING

TJ - TEXT JUSTIFICATION

AC - ACTIVE CELL

- Text Reference Callout
- Graphic Reference Callout
- User Note Reference Callout

▲ See Std P-00.60 Line Weight Table for Manual Construction.

Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - 1"=100') using ADOT's CADD Standard Working Units.

MANUAL TEXT PARAMETERS								
Reference No.			Text Size	Rapidograph Pen Size	Style	Comments		
1	4	5	7	9	No. 6 Ames/200 Leroy	2	Slant	
	2	6	10		No. 5 Ames/175 Leroy	0	Slant	
		3			No. 7 Ames/240 Leroy	3	Straight	
		8			No. 6 Ames/200 Leroy	2	Straight	

USER NOTES				
Reference No.	<div></div>	Comments		
<div>1</div>		See Std P-00.70 for Title Block & Project Number Block Layout		
<div>2</div>		See Std P-00.40 for Pavement Structural Section Layout & Construction		
<div>3</div>		See Stds P-00.60 & P-00.61 for Dimension and Leader Line Layout		
<div>4</div>		See Std P-00.60 for Text Layout		

REFERENCES
BP-063-1-503
S-53(1)

MIDPOINT OF PROJECT
Western Zone
State Plane Coordinates
X = 220,000
Y = 610,000

DESIGN DATA
1991 ADT = 19,000
2011 ADT = 30,000
Min Design Speed = 50 MPH

F.A.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	B-063-1-610	2	79	
095 YU 020					

LENGTH OF PROJECT
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

Sheet No.	Sheet Type
1	Face Sheet
1A-1B	ADOT Standard Drawings
2-3	Design Sheets
4-5	Pipe Summary Sheet
6	PSWP Summary Sheet
7-21	Detail Sheets
22-37	Plan & Profile Sheets
38-56	Storm Drain Plan & Profile Sheets
57-59	PSWP Profile Sheets
60-66	Driveway Profile Sheets
67-79	Traffic Sheets

GENERAL NOTES

The roadway plans have been utilizing the 1989 Construction Standard Drawings (C-Series), and current revisions.

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

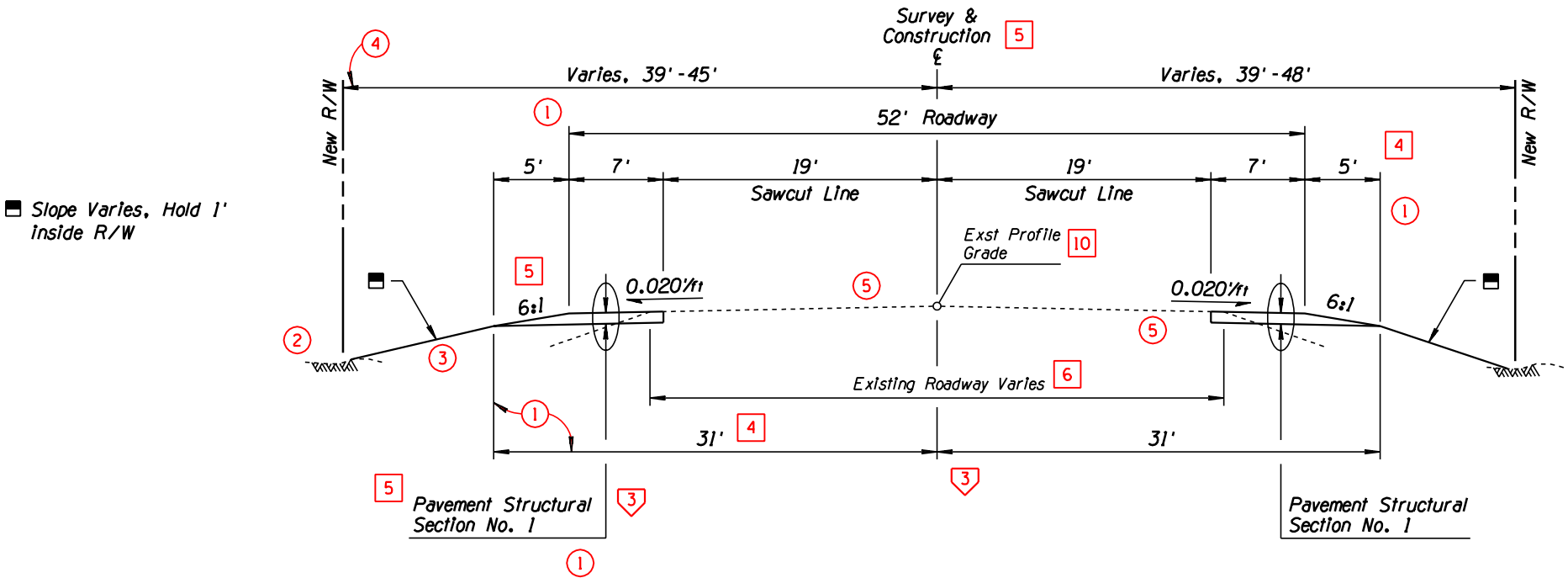
R/W Markers shall be furnished and placed by the contractor, as directed by the Engineer. Std C-21.10.

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

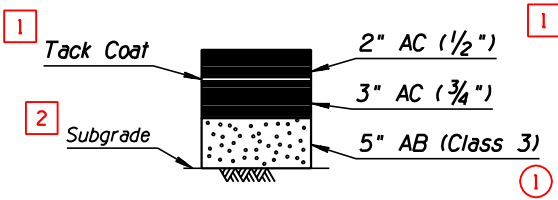
Bench markers will be furnished by the State and shall be placed by the Contractor. Std C-21.20.

Existing utility locations are approximate. The contractor shall verify the exact location and depth of all underground facilities.

For Superelevation Information not shown, see Drawing Series D-56 in the Roadway Design Guides for use in Office and Field - 1986.



TYPICAL SECTION
Sta 1079+00 to 1086+00



Total Thickness = 10"
PAVEMENT STRUCTURAL
SECTION NO. 1

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIGHWAY PLANS SERVICES
DRAWN	T. MACBETH	10-90	
CHECKED	M. HAUER	10-90	
TEAM LEADER	R. DELANO	12-90	
	J. BRUBAKER		
ROUTE	LOCATION		
US 95	32nd ST - 26th ST (YUMA)		
			DESIGN SHEET
			SHEET 1 OF 2

CADD TEXT PARAMETERS							
Reference No. <div><div></div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	21	23	17.5	4	8.75	LB	TJ Is LB unless otherwise shown
<div>2</div>	30	23	17.5	4	8.75	CB	
<div>3</div>	25	23	17.5	4	8.75	CB	
<div>4</div>	45	23	17.5	4	8.75	LB	
<div>5</div>	54	1	22	6	11	CB	
GRAPHIC PARAMETERS							
Reference No. <div><div></div></div>	LV/CO=	▲WT=	LC=	Comments			
<div>①</div>	●	1	0	① LV/CO shall match the LV/CO of Text placed for item			
<div>②</div>	20	3	0				
<div>③</div>	44	3	0				
<div>④</div>	-	-	-	ADOT Standard Line Terminator; Typical			
<div>⑤</div>	59	1	5				
NOTE: For project related sheets, see standards: P-02.30; P-07.30; P-08.30; P-12.20; P-13.20							

MANUAL TEXT PARAMETERS				
Reference No. <div><div></div></div>	Text Size	Rapidograph Pen Size	Style	Comments
<div>1</div> <div>2</div> <div>3</div> <div>4</div>	No. 6 Ames/ 200 Leroy	2	Slant	
<div>5</div>	No. 7 Ames/ 240 Leroy	3	Straight	
USER NOTES				
Reference No. <div><div></div></div>	Comments			
<div>1</div>	See Std P-00.70 for Title Block & Project Number Block Layout			
<div>2</div>	Show roadway cross slope in feet per foot to 3 decimal places			
<div>3</div>	See Stds P-00.60 & P-00.61 for Dimension and Leader Line Layout			

Abbreviations:

LV - LEVEL

CO - COLOR

FT - FONT

TX - TEXT SIZE

WT - LINE WEIGHT

LS - LINE SPACING

TJ - TEXT JUSTIFICATION

AC - ACTIVE CELL

- Text Reference Callout

- Graphic Reference Callout

- User Note Reference Callout

▲ See Std P-00.60 Line Weight Table for Manual Construction.

Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units.

APPROVED FOR DISTRIBUTION

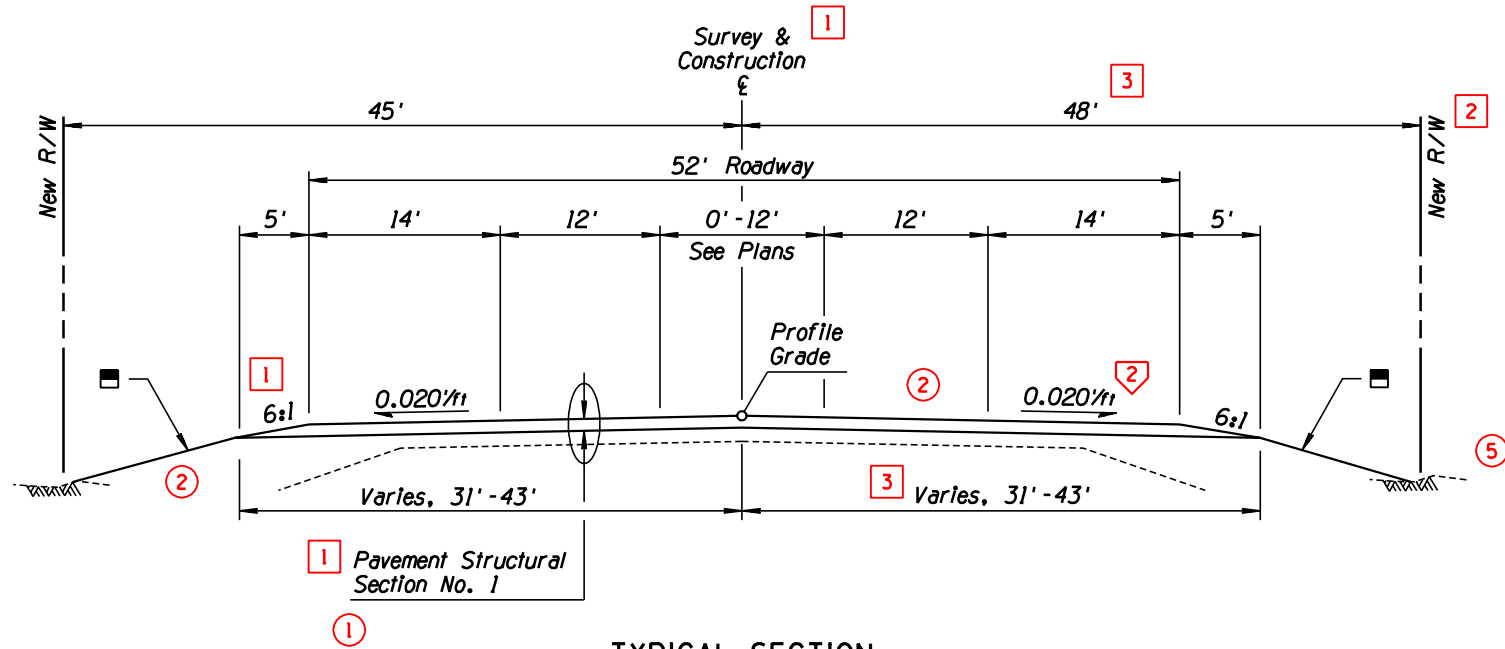
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STANDARD DRAWINGS

SAMPLE TYPICAL SECTIONS
FOR URBANIZED AREA

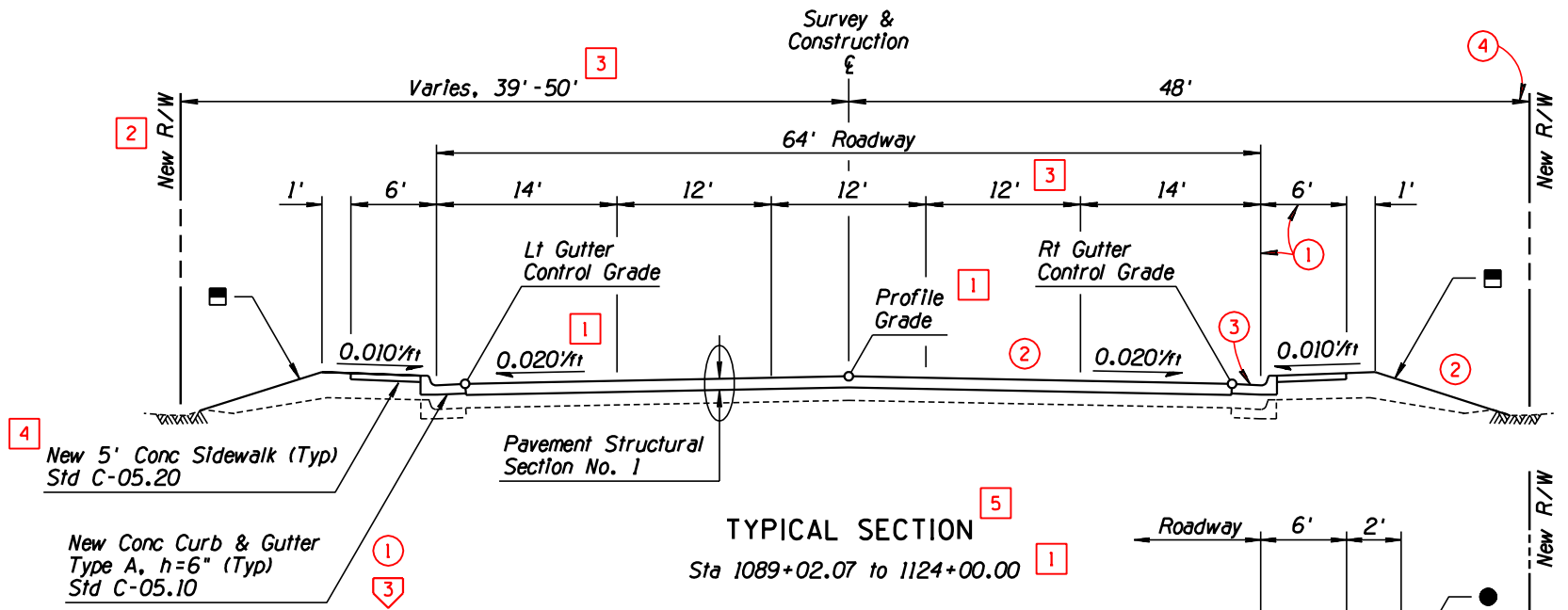
DRAWING NO.
P-02.31

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	B-063-1-610	3	79	

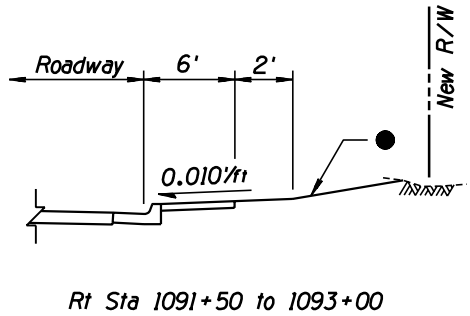
095 YU 020



TYPICAL SECTION
Sta 1086+00 to 1089+02.07



TYPICAL SECTION
Sta 1089+02.07 to 1124+00.00



Rt Sta 1091+50 to 1093+00

■ Slopes Vary, Hold 1' Inside R/W

● 6:1 Slope or Hold 1' Inside R/W

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIGHWAY PLANS SERVICES		
DRAWN	T MACBETH	10-90	DESIGN SHEET TYPICAL SECTIONS		
CHECKED	M HAUER	10-90			
TEAM LEADER	R DELANO	12-90			
ROUTE US 95			LOCATION 32nd ST - 26th ST (YUMA)		
			SHEET 2 OF 2		

TRACS NO. H0000 01 C

OF

STD P-02.31

CADD TEXT PARAMETERS							
Reference No. <div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	18	23	17.5	4	8.75	LB	
<div>2</div>	18	23	15	2	7.5	LB	
<div>3</div>	18	23	17.5	4	8.75	CB	
<div>4</div>	54	1	22	6	11	CB	
GRAPHIC PARAMETERS							
Reference No. <div></div>	LV/CO=	▲WT=	LC=	Comments			
<div>1</div>	●	1	0	● LV/CO shall match the LV/CO of Text placed for Item			
NOTE: For project related sheets, see standards: P-02.52; P-02.53; P-04.10							

MANUAL TEXT PARAMETERS				
Reference No. <div></div>	Text Size	Rapidograph Pen Size	Style	Comments
<div>1</div> <div>3</div>	No. 6 Ames/ 200 Leroy	2	Slant	
<div>2</div>	No. 7 Ames/ 240 Leroy	3	Straight	
<div>4</div>	No. 5 Ames/ 175 Leroy	0	Slant	
USER NOTES				
Reference No. <div></div>	Comments			
<div>1</div>	See Std P-00.70 for Title Block & Project Number Block Layout			
<div>2</div>	See Std P-00.40 for Pavement Structural Section Layout & Construction			
<div>3</div>	See Std P-00.61 for Leader Line Layout			

Abbreviations:

LV - LEVEL

CO - COLOR

FT - FONT

TX - TEXT SIZE

WT - LINE WEIGHT

LS - LINE SPACING

TJ - TEXT JUSTIFICATION

AC - ACTIVE CELL

- Text Reference Callout

- Graphic Reference Callout

- User Note Reference Callout

▲ See Std P-00.60 Line Weight Table for Manual Construction.

Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units.

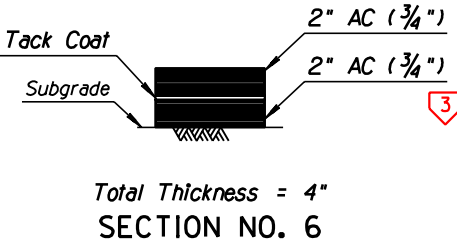
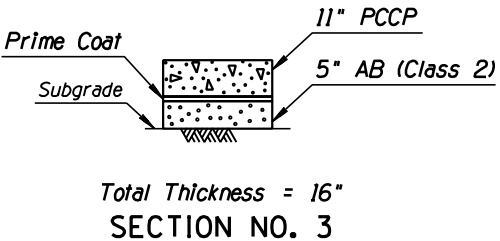
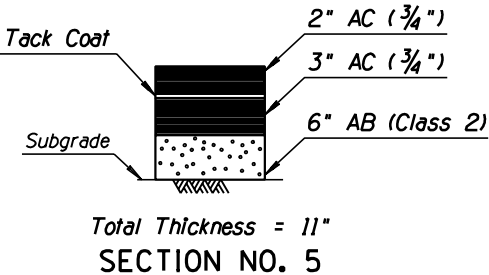
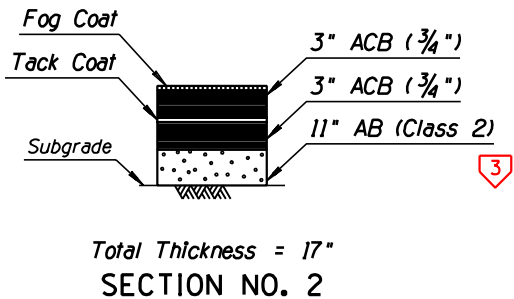
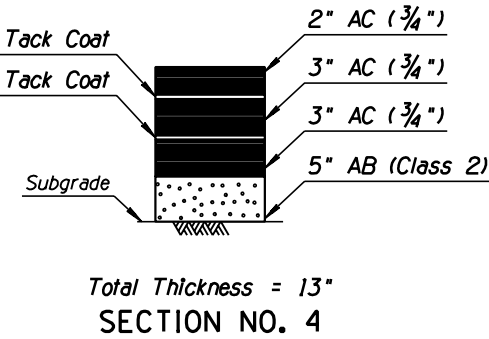
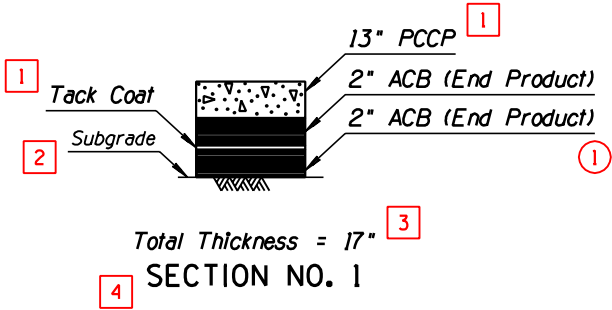
APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STANDARD DRAWINGS

SAMPLE PAVEMENT STRUCTURAL SECTIONS
FOR URBAN FREEWAY ROADWAY

DRAWING NO.
P-02.51

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	RAM-600-1-501	3	541	
101L MA 52					



PAVEMENT STRUCTURAL SECTIONS

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIGHWAY PLANS SERVICES
DESIGN	T MACBETH	10-90	
DRAWN	M HAUER	10-90	
CHECKED	R DELANO	12-90	
TEAM LEADER	J BRUBAKER		DESIGN SHEET PAVEMENT STRUCTURAL SECTIONS
ROUTE	LOCATION		PRICE, FIRST ST - BASELINE
SR 101L			
			SHEET 2 OF 4

CADD TEXT PARAMETERS								MANUAL TEXT PARAMETERS									
Reference No.	□	LV/C0=	FT=	TX=	WT=	LS=	TJ=	Comments	Reference No.	□	Text Size	Rapidograph Pen Size	Style	Comments			
1		30	23	17.5	4	8.75	RB		1	2	4	5	6	No. 6 Ames/200 Leroy	2	Slant	
2		21	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown		3	No. 7 Ames/240 Leroy	3	Straight				
3		54	1	22	6	11	CB										
4		39	23	17.5	4	8.75	LB										
5		25	23	17.5	4	8.75	CB										
6		45	23	17.5	4	8.75	LB										
GRAPHIC PARAMETERS																	
Reference No.	○	LV/C0=	▲WT=	LC=	Comments												
1		20	3	0													
2		59	1	5													
3		●	1	0	● LV/C0 shall match the LV/C0 of Text placed for item												
4		-	-	-	ADOT Standard Line Terminator; Typical												
5		44	3	0													
6		38	3	0													
NOTE: For project related sheets, see standards: P-02.51; P-02.53; P-04.10								USER NOTES									
Reference No.	▽	Comments															
1		See Std P-00.70 for Title Block & Project Number Block Layout															
2		See Std P-00.60 for Leader Line Layout															
3		Show roadway cross slope in feet per foot to 3 decimal places															

Abbreviations: LV - LEVEL
CO - COLOR
FT - FONT
TX - TEXT SIZE
WT - LINE WEIGHT
LS - LINE SPACING
TJ - TEXT JUSTIFICATION
AC - ACTIVE CELL

□ - Text Reference Callout
○ - Graphic Reference Callout
▽ - User Note Reference Callout

▲ See Std P-00.60 Line Weight Table for Manual Construction.

Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units.

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STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STANDARD DRAWINGS

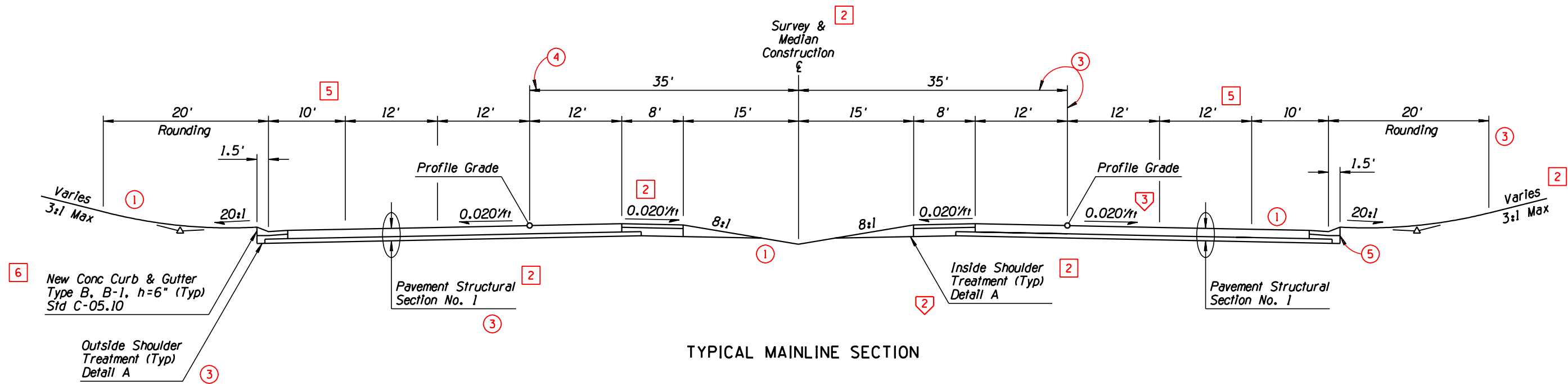
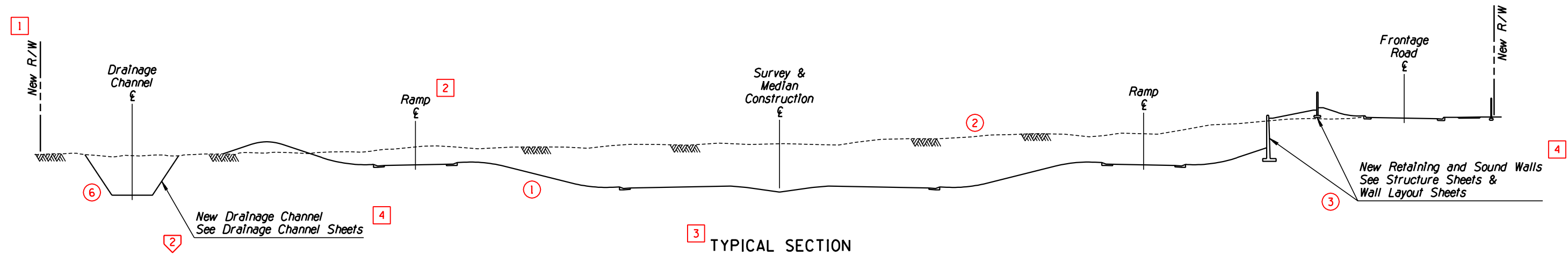
SAMPLE TYPICAL SECTIONS FOR URBAN FREEWAY ROADWAY

DRAWING NO.
P-02.52

DESCRIPTION OF REVISION

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	RBA-600-1-501	4	541	

101L MA 52



DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIGHWAY PLANS SERVICES
DRAWN	T. MACBETH	10-90	
CHECKED	M. HALER	10-90	
TEAM LEADER	R. DELANO	12-90	
	J. BRUBAKER		
ROUTE	LOCATION		
SR 101L	PRICE, FIRST ST - BASELINE		

SHEET 3 OF 4

TRACS NO. H0000 01 C

OF

STD P-02.52

CADD TEXT PARAMETERS							
Reference No. <div><div></div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	21	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown
<div>2</div>	25	23	17.5	4	8.75	CB	
<div>3</div>	54	1	22	6	11	CB	
<div>4</div>	39	23	17.5	4	8.75	LB	
<div>5</div>	30	23	17.5	4	8.75	RT	
<div>6</div>	45	23	17.5	4	8.75	LB	
GRAPHIC PARAMETERS							
Reference No. <div><div></div></div>	LV/CO=	▲WT=	LC=	Comments			
<div>1</div>	<div>●</div>	1	0	● LV/CO shall match the LV/CO of Text placed for item			
<div>2</div>	-	-	-	ADOT Standard Line Terminator; Typical			
<div>3</div>	20	3	0				
<div>4</div>	45	3	0				
<div>5</div>	48	3	0				
<div>6</div>	42	3	0				
<div>7</div>	59	1	5				
NOTE: For project related sheets, see standards: P-02.51; P-02.52; P-02.53; P-04.10							

MANUAL TEXT PARAMETERS				
Reference No. <div><div></div></div>	Text Size	Rapidograph Pen Size	Style	Comments
<div>1</div> <div>2</div> <div>4</div> <div>5</div> <div>6</div>	No. 6 Ames/ 200 Leroy	2	Slant	
<div>3</div>	No. 7 Ames/ 240 Leroy	3	Straight	
USER NOTES				
Reference No. <div><div></div></div>	Comments			
<div>1</div>	See Std P-00.70 for Title Block & Project Number Block Layout			
<div>2</div>	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout			
<div>3</div>	Show roadway cross slope in feet per foot to 3 decimal places			

Abbreviations:

LV - LEVEL

CO - COLOR

FT - FONT

TX - TEXT SIZE

WT - LINE WEIGHT

LS - LINE SPACING

TJ - TEXT JUSTIFICATION

AC - ACTIVE CELL

- Text Reference Callout

- Graphic Reference Callout

- User Note Reference Callout

▲ See Std P-00.60 Line Weight Table for Manual Construction.

Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - 1"=100') using ADOT's Standard Working Units

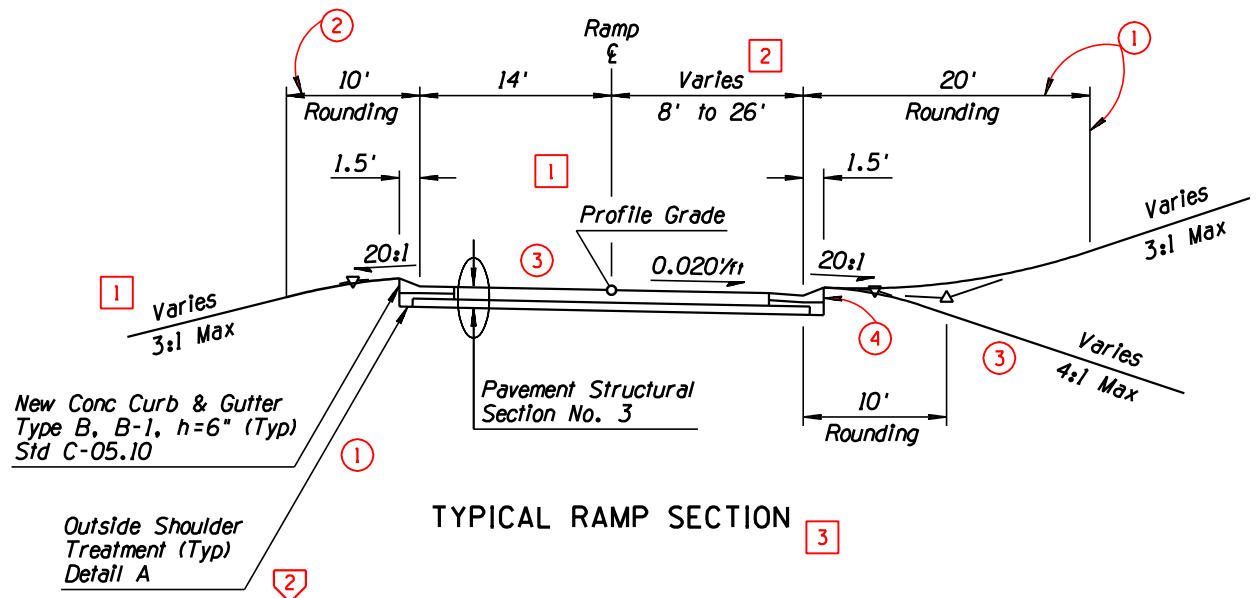
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STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STANDARD DRAWINGS

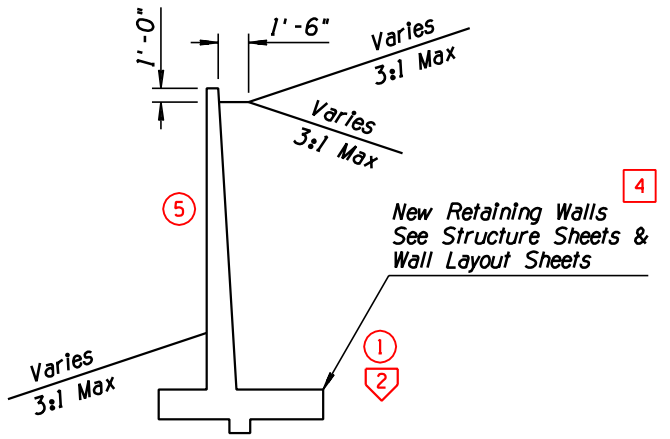
SAMPLE DESIGN SHEET FOR
URBAN FREEWAY ROADWAY

DRAWING NO.
P-02.53

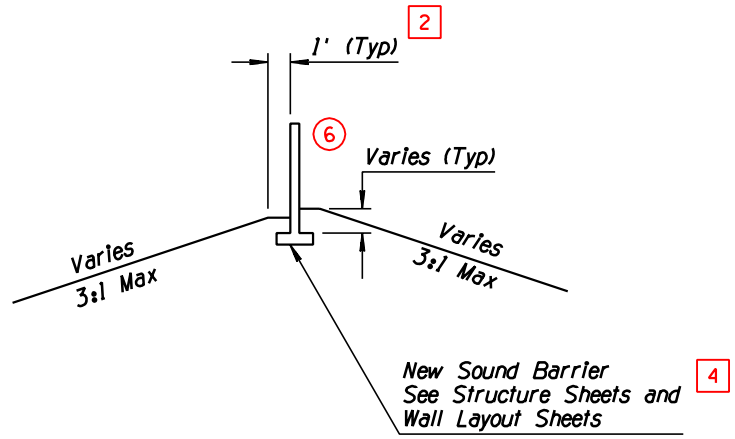
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	RBA-600-1-501	5	541	
101L MA 52					



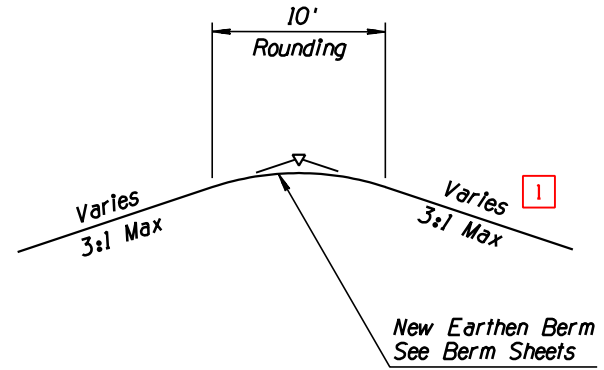
TYPICAL RAMP SECTION



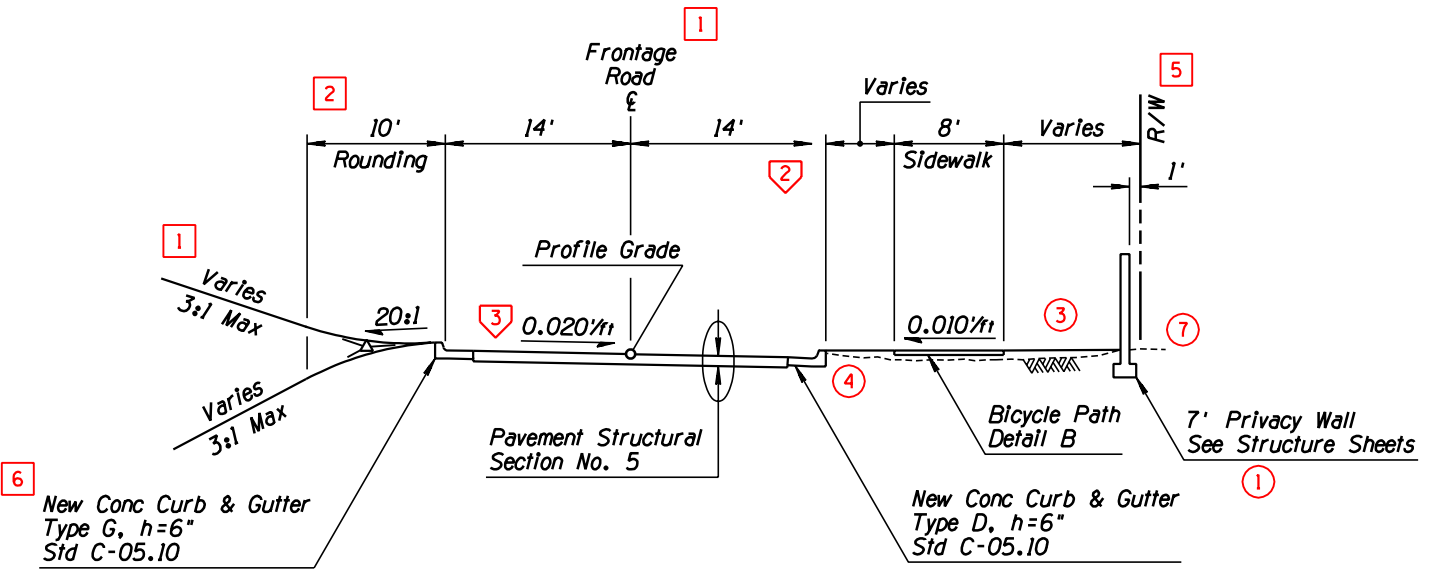
TYPICAL WALL SECTION



TYPICAL SOUND BARRIER SECTION



TYPICAL BERM SECTION



TYPICAL FRONTAGE ROAD SECTION

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION		
DRAWN	T. MACBETH	10-90	HIGHWAYS DIVISION		
CHECKED	M. HAUER	10-90	HIGHWAY PLANS SERVICES		
TEAM LEADER	R. DELANO	12-90	DESIGN SHEET		
	J. BRUBAKER		TYPICAL SECTIONS		
ROUTE	LOCATION		PRICE, FIRST ST - BASELINE		
SR 101L			SHEET 4 OF 5		

SURVEY NO.	FINISHED PLANS	REVISIONS	LOCATION	DATE

NO.	<	<	<	<

CADD TEXT PARAMETERS							
Reference No. <div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	58	1	15	4	45	CT	TJ is CT unless otherwise shown
GRAPHIC PARAMETERS							
Reference No. <div></div>	LV/CO=	▲WT=	LC=	Comments			
NOTE : For project related sheets, see standards: P-03.25; P-05.10; P-05.20; P-05.30; P-07.25							

Abbreviations: LV - LEVEL
CO - COLOR
FT - FONT
TX - TEXT SIZE
WT - LINE WEIGHT
LS - LINE SPACING
TJ - TEXT JUSTIFICATION
AC - ACTIVE CELL

- Text Reference Callout
 - Graphic Reference Callout
 - User Note Reference Callout

▲ See Std P-00.60 Line Weight Table for Manual Construction.

Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units.

MANUAL TEXT PARAMETERS				
Reference No. <div></div>	Text Size	Rapidograph Pen Size	Style	Comments
<div>1</div>	No. 5 Ames/ 175 Leroy	2	Straight	
USER NOTES				
Reference No. <div></div>	Comments			
<div>1</div>	See Std P-00.70 for Title Block & Project Number Block Layout			
<div>2</div>	Use supplied Text Node			

1
2

STD P-03.10

CADD TEXT PARAMETERS							
Reference No. <div><div></div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	58	1	15	4	45	CT	TJ is CT unless otherwise shown
GRAPHIC PARAMETERS							
Reference No. <div><div></div></div>	LV/CO=	▲WT=	LC=	Comments			
NOTE : For project related sheets, see standards: P-02.20; P-03.30; P-07.20; P-08.20							

MANUAL TEXT PARAMETERS				
Reference No. <div><div></div></div>	Text Size	Rapidograph Pen Size	Style	Comments
<div>1</div>	No. 5 Ames/ 175 Leroy	2	Straight	
USER NOTES				
Reference No. <div><div></div></div>	Comments			
<div>1</div>	See Std P-00.70 for Title Block & Project Number Block Layout			
<div>2</div>	Use supplied Text Nodes			

Abbreviations:

LV - LEVEL

CO - COLOR

FT - FONT

TX - TEXT SIZE

WT - LINE WEIGHT

LS - LINE SPACING

TJ - TEXT JUSTIFICATION

AC - ACTIVE CELL

- Text Reference Callout

- Graphic Reference Callout

- User Note Reference Callout

▲ See Std P-00.60 Line Weight Table for Manual Construction.

Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units.

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STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STANDARD DRAWINGS

SAMPLE NEW PIPE SUMMARY SHEET

DRAWING NO.
P-03.20

1
2

1

OF

DESCRIPTION OF REVISION				
1				
2				
3				
4				

CADD TEXT PARAMETERS								MANUAL TEXT PARAMETERS												
Reference No.	<div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	Reference No.	<div></div>	Text Size	Rapidograph Pen Size	Style	Comments						
1		58	1	15	4	45	CT	TJ is Ct unless otherwise shown	1		No. 5 Ames/ 175 Leroy	2	Straight							
GRAPHIC PARAMETERS																				
Reference No.	<div></div>	LV/CO=	▲WT=	LC=	Comments															
USER NOTES																				
Reference No.	<div></div>	Comments																		
1		See Std P-00.70 for Title Block & Project Number Block Layout																		
2		Use supplied text nodes																		
NOTE: For project related sheets, see standards: P-03.10; P-05.10; P-05.30; P-05.40; P-07.25																				
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT SIZE WT - LINE WEIGHT LS - LINE SPACING TJ - TEXT JUSTIFICATION AC - ACTIVE CELL												<div></div> - Text Reference Callout <div></div> - Graphic Reference Callout <div></div> - User Note Reference Callout		▲ See Std P-00.60 Line Weight Table for Manual Construction. Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - 1"=100') using ADOT's Standard Working Units	APPROVED FOR DISTRIBUTION		STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS		DRAWING NO. P-03.25	
SAMPLE NEW CORRUGATED STEEL PIPE EXTENSION SUMMARY SHEET																				

089A YV 384

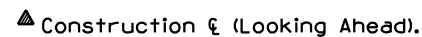
1
2

* PIPE EXCAVATION & PIPE BACKFILL WILL NOT BE MEASURED FOR PAYMENT.

1

BE
66

Reference numbers correspond to numbers
in circles on PLAN SHEETS.



STD P-03.25

 OF

1	2	3	4	5

DESCRIPTION OF REVISION

CADD TEXT PARAMETERS							
Reference No. <div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	58	1	15	4	15	CT	TJ is CT unless otherwise shown
GRAPHIC PARAMETERS							
Reference No. <div></div>	LV/CO=	▲WT=	LC=	Comments			
NOTE : For project related sheets, see standards: P-02.20; P-03.20; P-07.20; P-08.20							

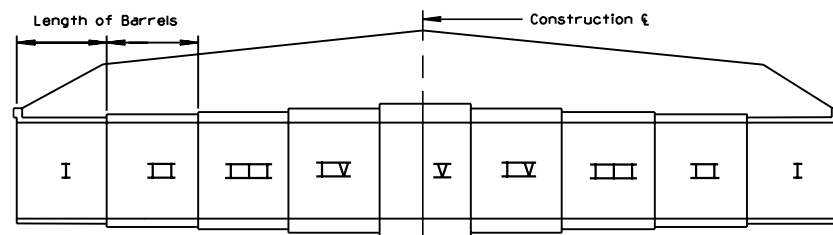
1

095 LP 148

1
2

Reference numbers correspond to numbers in circles on PLAN SHEETS.

NOTE:
FOR STRUCTURAL EXCAVATION AND
STRUCTURE BACKFILL PLACEMENT AND
MEASUREMENT, SEE STANDARD DRAWINGS
C-13.35, C-13.45 AND C-13.50.



▲ Construction & (Looking Ahead).

		NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIGHWAY PLANS SERVICES REINFORCED CONCRETE BOX CULVERT SUMMARY SHEET	
DESIGN	T MACBETH	10-10			
DRAWN	M HAUER	10-10			
CHECKED	R DELANO	12-90			
TEAM LEADER	J BRUBAKER				
ROUTE	LOCATION				
US 95	OSBORN WASH - NORTH (UNIT II)				
			SHEET 1 OF 1		

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CCCCCDGNCSPECIFICATIONCCCCC      VIEW NAME:
CCCCCSYSTEMECCCCC

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TRACS NO. H0000 01 C

 OF

STD P-03.30

DESCRIPTION OF REVISION					

CADD TEXT PARAMETERS								MANUAL TEXT PARAMETERS									
Reference No.	<div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	Reference No.	<div></div>	Text Size	Rapidograph Pen Size	Style	Comments			
<div>1</div>		25	23	17.5	4	8.75	CB		<div>1</div>	<div>2</div>	<div>4</div>	<div>5</div>	<div>6</div>	No. 6 Ames/200 Leroy	2	Slant	
<div>2</div>		21	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown		<div>3</div>	No. 6 Ames/200 Leroy	3	Straight				
<div>3</div>		54	1	22	6	11	CB										
<div>4</div>		33	23	17.5	4	8.75	LB										
<div>5</div>		28	23	17.5	4	8.75	LB										
<div>6</div>		55	23	17.5	4	8.75	LB	LS between notes shall be 17.5 units									
GRAPHIC PARAMETERS																	
Reference No.	<div></div>	LV/CO=	▲WT=	LC=	Comments												
<div>1</div>		<div>●</div>	1	0	● LV/CO shall match the LV/CO of Text placed for item												
<div>2</div>		-	-	-	ADOT Standard Line Terminator; Typical												
<div>3</div>		20	3	0													
<div>4</div>		44	3	0													
<div>5</div>		63	7	0													
<div>6</div>		42	3	0													
<div>7</div>		42	1	2													
NOTE: For project related sheets, see standards: P-02.51; P-02.52; P-02.53								USER NOTES									
Reference No.		<div></div>						Comments									
<div>1</div>								See Std P-00.70 for Title Block & Project Number Block Layout									
<div>2</div>								See Std P-00.61 for Detail Format Layout									
<div>3</div>								Show roadway cross slope in feet per foot to 3 decimal places									
<div>4</div>								See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout									
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT SIZE WT - LINE WEIGHT LS - LINE SPACING TJ - TEXT JUSTIFICATION AC - ACTIVE CELL								<div></div> - Text Reference Callout <div></div> - Graphic Reference Callout <div></div> - User Note Reference Callout									
								▲ See Std P-00.60 Line Weight Table for Manual Construction. Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units.									
								APPROVED FOR DISTRIBUTION		STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS				REV.			
								SAMPLE DETAIL SHEET FOR SHOULDER TREATMENT & ALTERNATE FOOTINGS						DRAWING NO. P-04.10			

CADD TEXT PARAMETERS							
Reference No.	LV/C0=	FT=	TX=	WT=	LS=	TJ=	Comments
1	14	23	15	2	7.5	LB	
2	39	23	17.5	4	8.75	LB	
3	54	1	22	6	11	CB	
4	25	23	17.5	4	8.75	CB	
GRAPHIC PARAMETERS							
Reference No.	LV/C0=	▲WT=	LC=	Comments			
①	38	3	0				
②	59	1	5				
③	20	1	2				
④	-	-	-	ADOT Standard Line Terminator; Typical			
⑤	●	1	0	● LV/C0 shall match the LV/C0 of Text placed for item			
MANUAL TEXT PARAMETERS							
Reference No.	Text Size	Rapidograph Pen Size	Style	Comments			
1	No. 5 Ames/ 175 Leroy	0	Slant				
2 4	No. 6 Ames/ 200 Leroy	2	Slant				
3	No. 7 Ames/ 240 Leroy	3	Straight				
USER NOTES							
Reference No.	Comments						
1	See Std P-00.70 for Title Block & Project Block Layout						
2	See Std P-00.61 for Detail Format Layout						
3	See Std P-00.60 & P-00.61 for Dimension & Leader Line Layout						

Abbreviations:

LV - LEVEL
CO - COLOR
FT - FONT
TX - TEXT SIZE
WT - LINE WEIGHT
LS - LINE SPACING
TJ - TEXT JUSTIFICATION
AC - ACTIVE CELL

Text Reference Callout

Graphic Reference Callout

User Note Reference Callout

▲ See Std P-00.60 Line Weight Table for Manual Construction.

Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units.

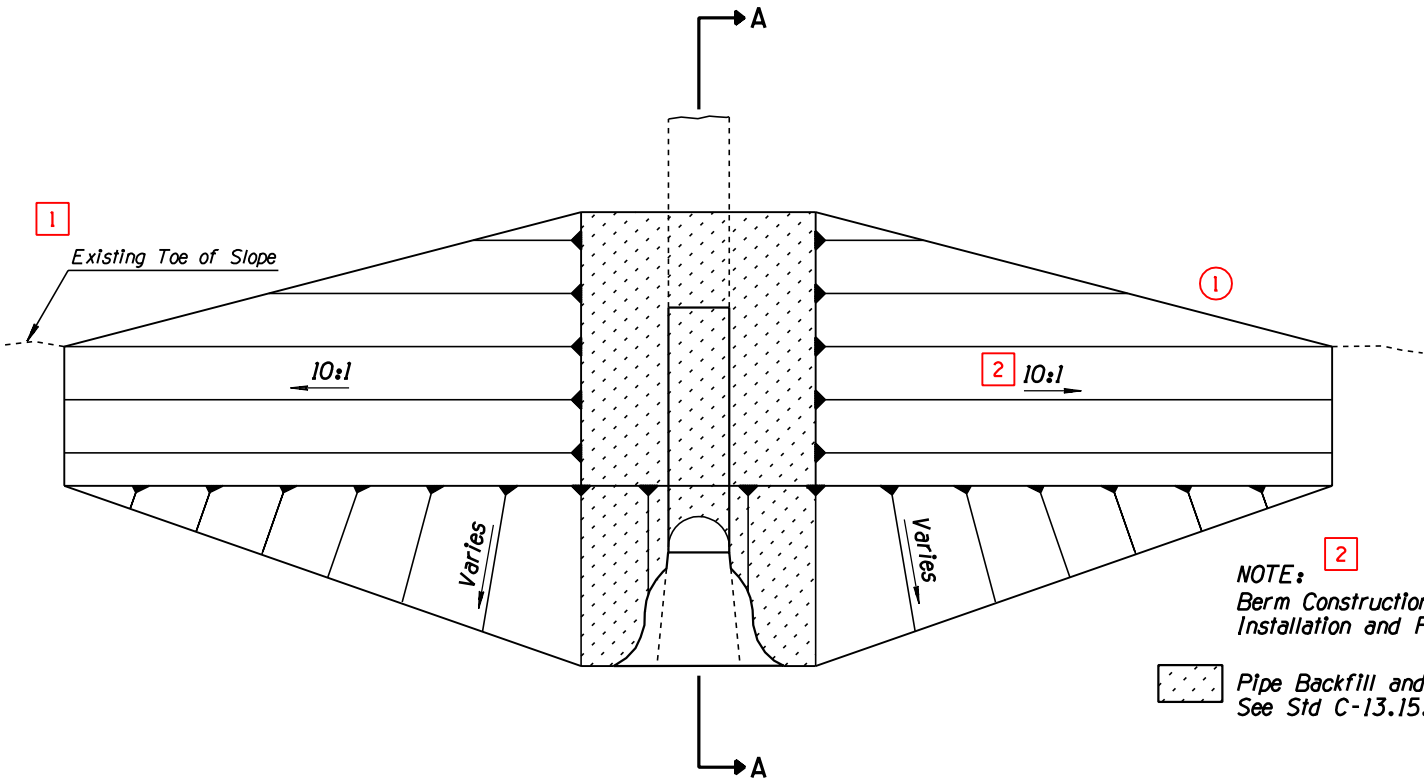
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DIVISION OF HIGHWAYS
STANDARD DRAWINGS

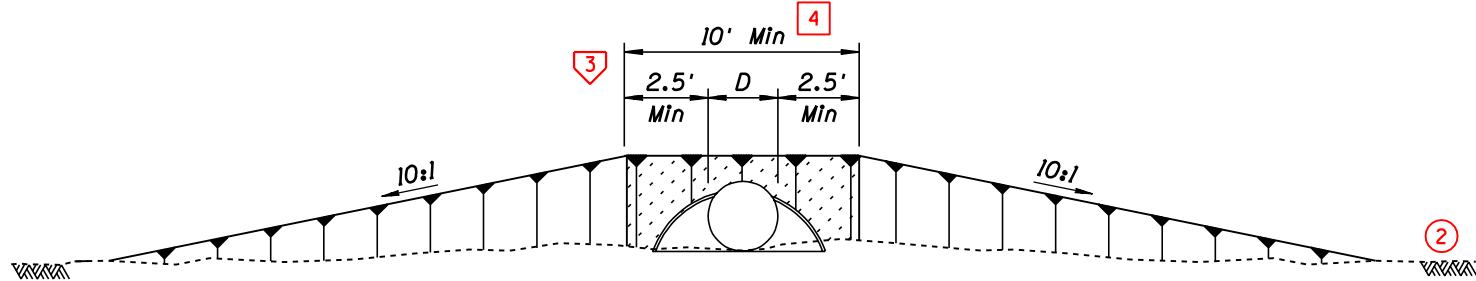
SAMPLE DETAIL SHEET FOR
PIPE BERM PLACEMENT

DRAWING NO.
P-04.20

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	I-IR-10-3(409)	7	57	
010 PN 160					

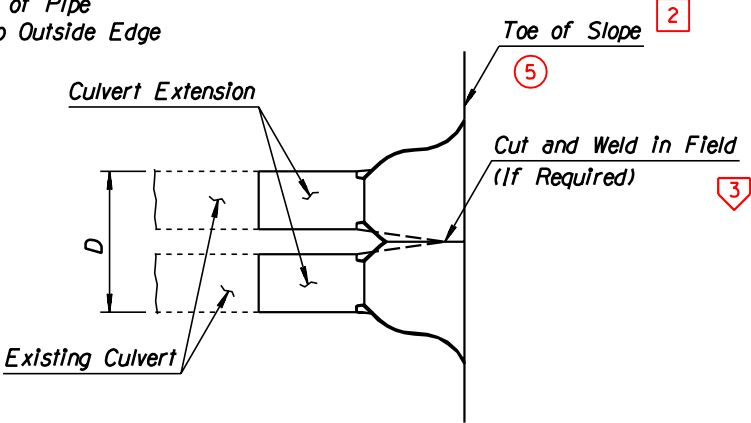


STRAIGHT PIPE PLAN

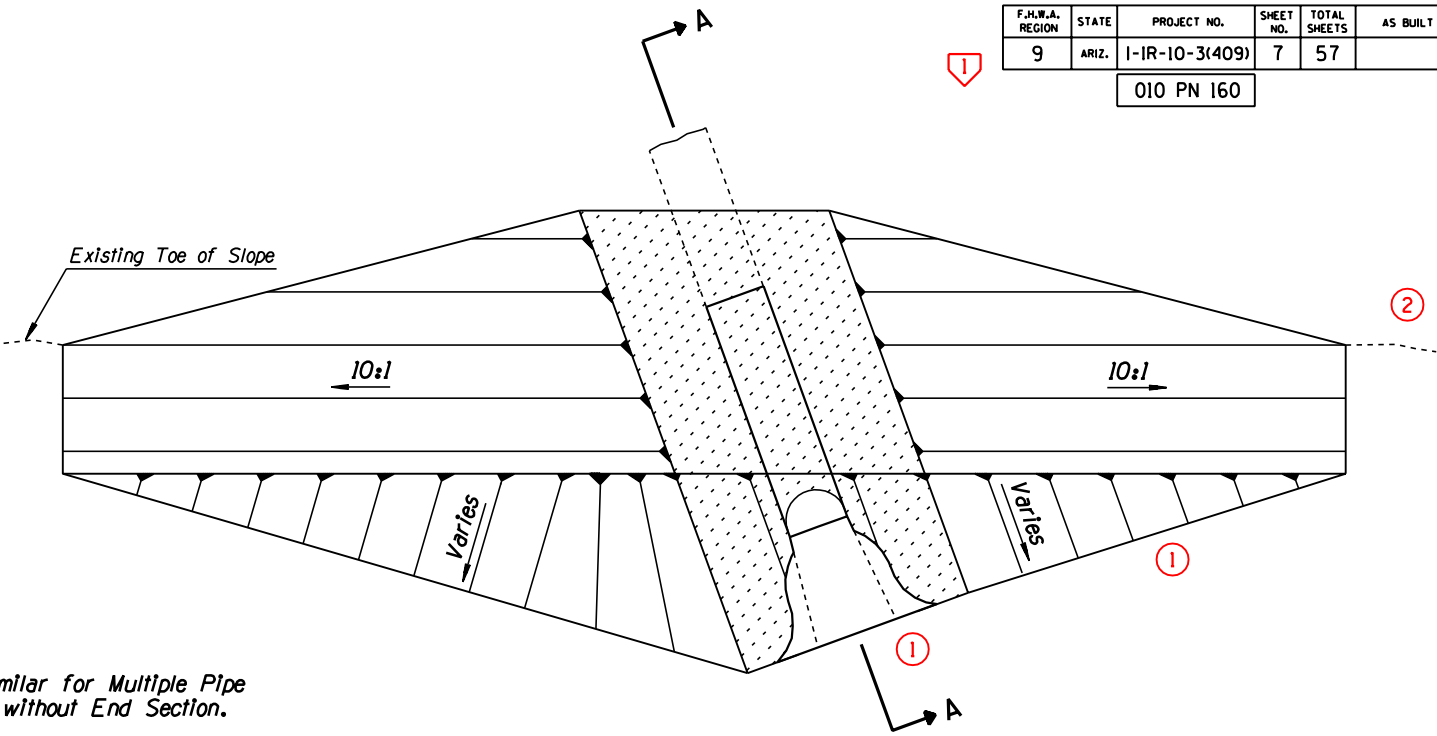


ELEVATION

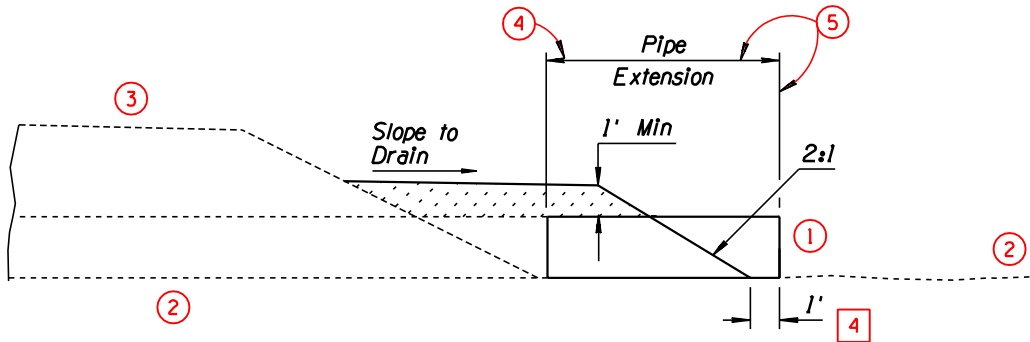
NOTE:
Single Pipe Installation: D=Outside Diameter of Pipe
Multiple Pipe Installation: D=Outside Edge to Outside Edge of Pipes



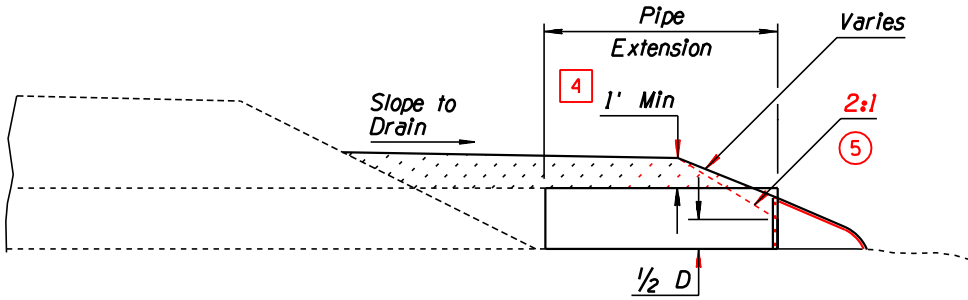
SPECIAL END SECTION



SKEWED PIPE PLAN



SECTION A-A (WITHOUT END SECTION)



SECTION A-A (WITH END SECTION)

DETAIL A

PIPE BERM PLACEMENT

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIGHWAY PLANS SERVICES
DRAWN	T. MACBETH	10-90	
CHECKED	M. HAUER	10-90	
TEAM LEADER	R. DELANO	11-90	
	J. BRUBAKER		
ROUTE	LOCATION		
I-10	GILA RIVER - CASA BLANCA		

SHEET 1 OF 5

TRACS NO. H0000 01 C

OF

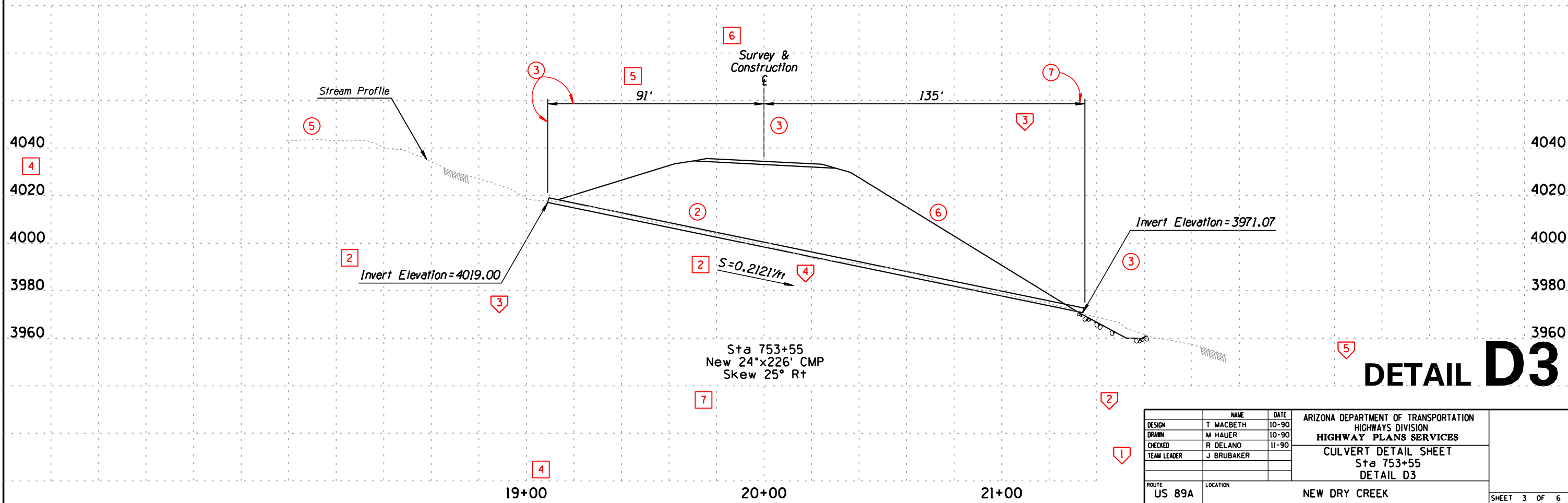
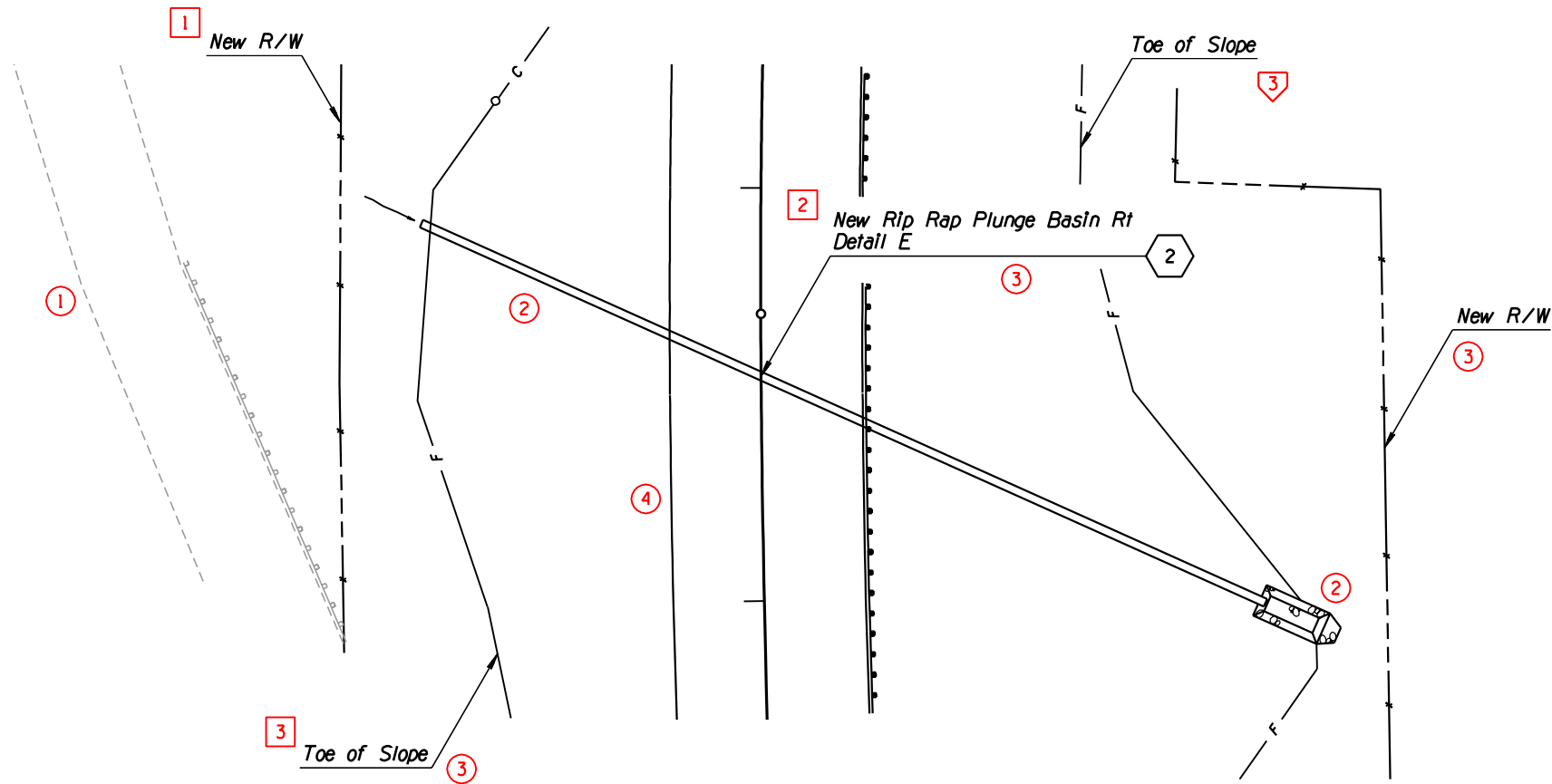
STD P-04.20

DESCRIPTION OF REVISION				
NO.	DATE	BY	REVISION	
1				
2				
3				
4				

CADD TEXT PARAMETERS								MANUAL TEXT PARAMETERS						
Reference No.	□	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	Reference No.	□	Text Size	Rapidograph Pen Size	Style	Comments
1		30	23	17.5	4	8.75	LB		1	2	3			
2		39	23	17.5	4	8.75	LB		5	6	No. 6 Ames/200 Leroy	2	Slant	
3		37	23	17.5	4	8.75	LB		7		No. 6 Ames/200 Leroy	2	Straight	
4		62	1	20	6	11	CB		4		No. 7 Ames/240 Leroy	3	Straight	
5		25	23	17.5	4	8.75	CB							
6		21	23	17.5	4	8.75	CB							
7		39	1	17.5	4	8.75	CC							
GRAPHIC PARAMETERS														
Reference No.	○	LV/CO=	▲WT=	LC=	Comments									
1		16	1	3										
2		38	3	0										
3		●	1	0	● LV/CO shall match the LV/CO of Text placed for item									
4		35	3	0										
5		59	1	5										
6		2037	3	0										
7		-	-	-	ADOT Standard Line Terminator; Typical									
NOTE: The subdued background shown can be produced by an electrostatic plotter using a modified pen table or by using conventional layering methods with screens. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.														
NOTE: For project related sheets, see standards: P-03.10; P-03.25; P-05.20; P-05.30; P-07.25														
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT SIZE WT - LINE WEIGHT LS - LINE SPACING TJ - TEXT JUSTIFICATION AC - ACTIVE CELL														
□ - Text Reference Callout ○ - Graphic Reference Callout ▽ - User Note Reference Callout														
▲ See Std P-P-00.60 Line Weight Table for Manual Construction.														
Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - 1"=100') using ADOT's Standard Working Units														
APPROVED FOR DISTRIBUTION														
STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS														
DRAWING NO. P-05.10														
SAMPLE CULVERT DETAIL SHEET FOR NEW PIPE INSTALLATION														

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	BRS-355(41)	8	35	

089A YV 384



DETAIL D3

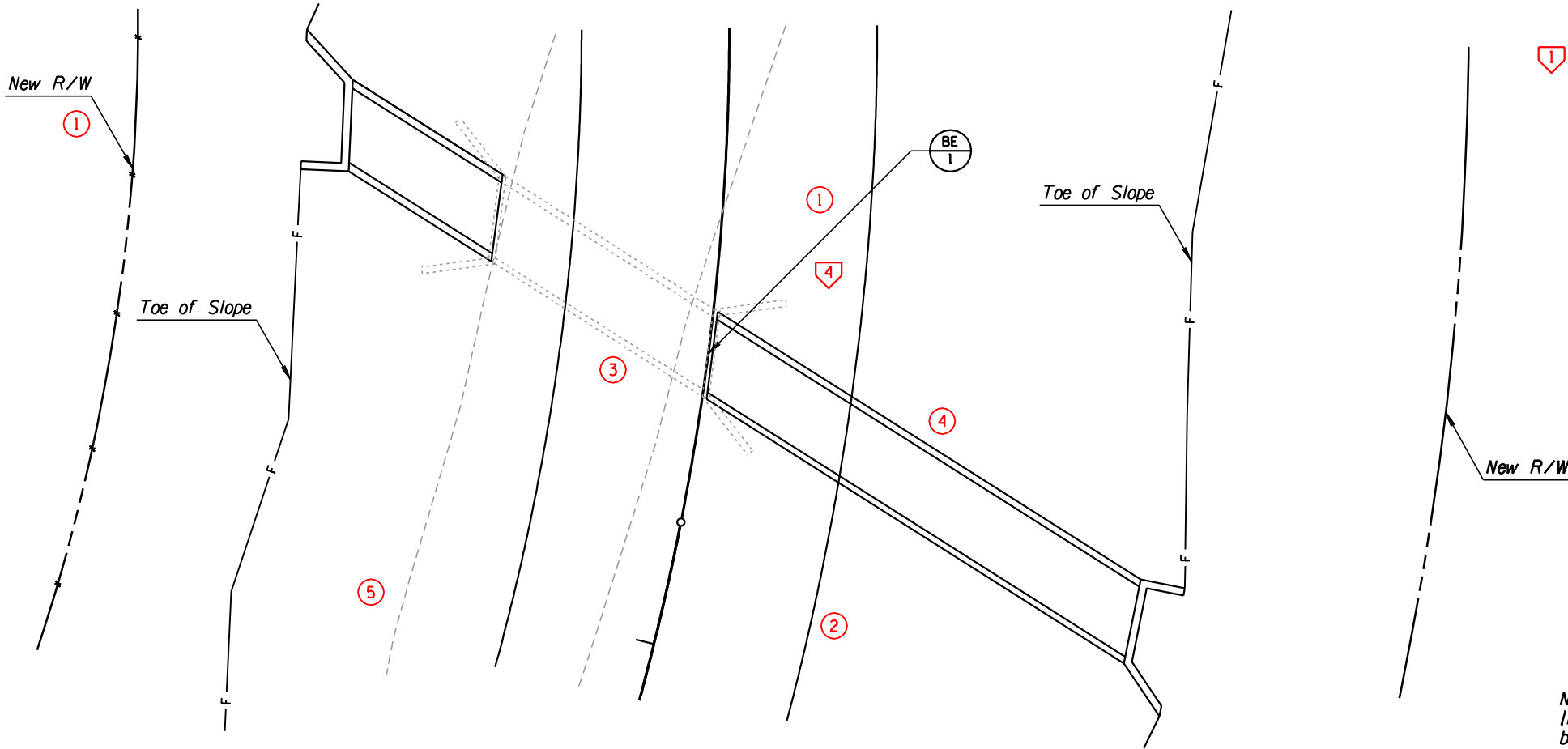
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIGHWAY PLANS SERVICES CULVERT DETAIL SHEET Sta 753+55 DETAIL D3		
DRAWN	T. MACBETH	10-90			
CHECKED	M. HAUER	10-90			
TEAM LEADER	R. DELANO	11-90			
ROUTE	J. BRUBAKER				
US 89A	LOCATION		NEW DRY CREEK		
			SHEET 3 OF 6		

NO.				
DESCRIPTION OF REVISION				

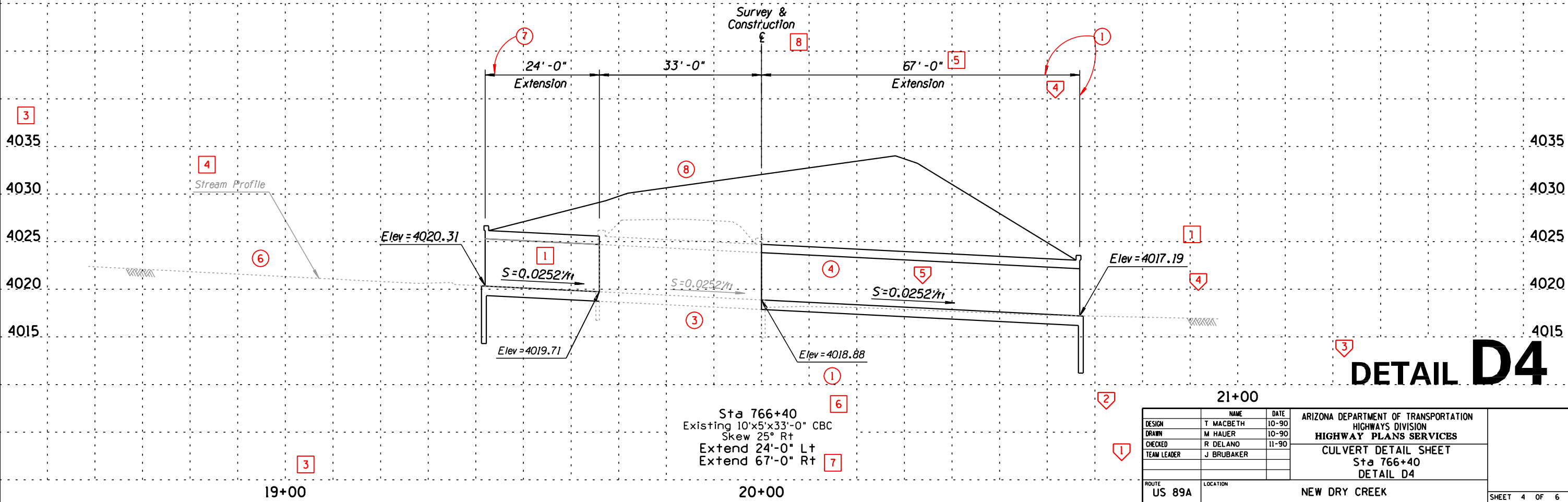
CADD TEXT PARAMETERS								MANUAL TEXT PARAMETERS									
Reference No.	□	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	Reference No.	□	Text Size	Rapidograph Pen Size	Style	Comments			
1		39	23	17.5	4	8.75	LB		1	2	5	8	No. 6 Ames/200 Leroy	2	Slant		
2		30	23	17.5	4	8.75	LB		3		No. 7 Ames/240 Leroy	3	Straight				
3		62	1	20	6	11	CB		4		No. 5 Ames/175 Leroy	0	Slant				
4		14	23	15	2	7.5	LB		6		No. 5 Ames/175 Leroy	0	Straight				
5		25	23	17.5	4	8.75	CB		7		No. 6 Ames/200 Leroy	2	Straight				
6		14	1	15	2	7.5	CB										
7		39	1	17.5	4	8.75	CB										
8		21	23	17.5	4	8.75	CB										
GRAPHIC PARAMETERS																	
Reference No.	○	LV/CO=	▲WT=	LC=	Comments												
1		●	1	0	● LV/CO shall match the LV/CO of Text placed for item												
2		35	3	0													
3		22	1	5													
4		48	3	0													
5		16	1	3													
6		59	1	5													
7		-	-	-	ADOT Stanard Line Terminator; Typical												
8		20	3	0													
NOTE: The subdued background shown can be produced by an electrostatic plotter using a modified pen table or by using conventional layering methods with screens. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.								USER NOTES									
								Reference No.	▽	Comments							
								1		See Std P-00.70 for Title Block & Project Number Block Layout							
								2		See Std P-00.70 for Profile Sheet Overlay							
								3		See Std P-00.61 for Detail Format Layout							
								4		See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout							
								5		Show Slope in feet per foot to 4 decimal places							
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT SIZE WT - LINE WEIGHT LS - LINE SPACING TJ - TEXT JUSTIFICATION AC - ACTIVE CELL								□ - Text Reference Callout ○ - Graphic Reference Callout ▽ - User Note Reference Callout					▲ See Std P-00.60 Line Weight Table for Manual Construction. Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units.				
								APPROVED FOR DISTRIBUTION		STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS					REV.		
								SAMPLE CULVERT DETAIL SHEET FOR BOX EXTENSION					DRAWING NO. P-05.20				

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	BRS-355(41)	9	35	

089A YV 384



NOTE:
Inlet & outlet wingwall dimensions shall be based on 45° skew with 6:1 slopes.



DETAIL D4

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
DRAWN	T. MACBETH	10-90	HIGHWAY PLANS SERVICES
CHECKED	M. HAUER	10-90	CULVERT DETAIL SHEET
TEAM LEADER	R. DELANO	11-90	Sta 766+40
	J. BRUBAKER		DETAIL D4
ROUTE	LOCATION		
US 89A	NEW DRY CREEK		

SHEET 4 OF 6

CCCCCDGNCSPECIFICATIONCCCCC
CCCCSYTIMECCCCC

VIEW NAME:

TRACS NO. H0000 01 C

OF

STD P-05.20

1	2	3	4	5

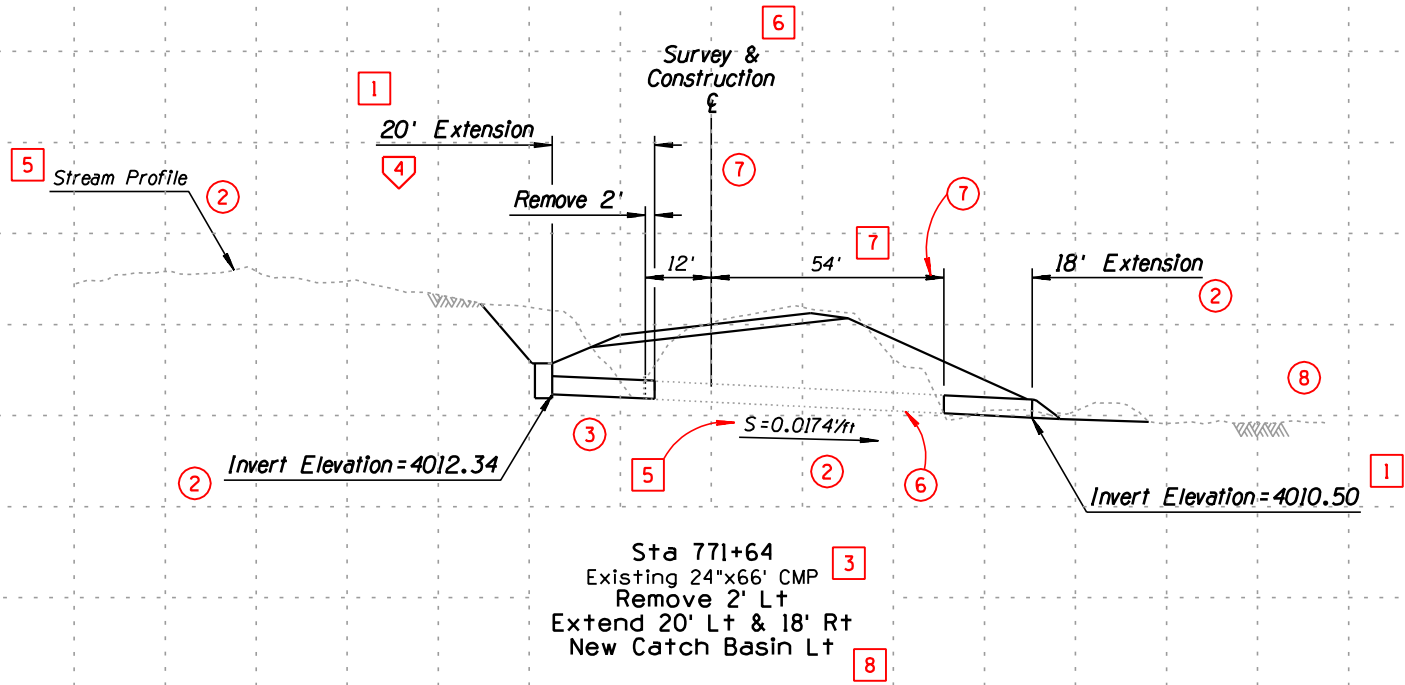
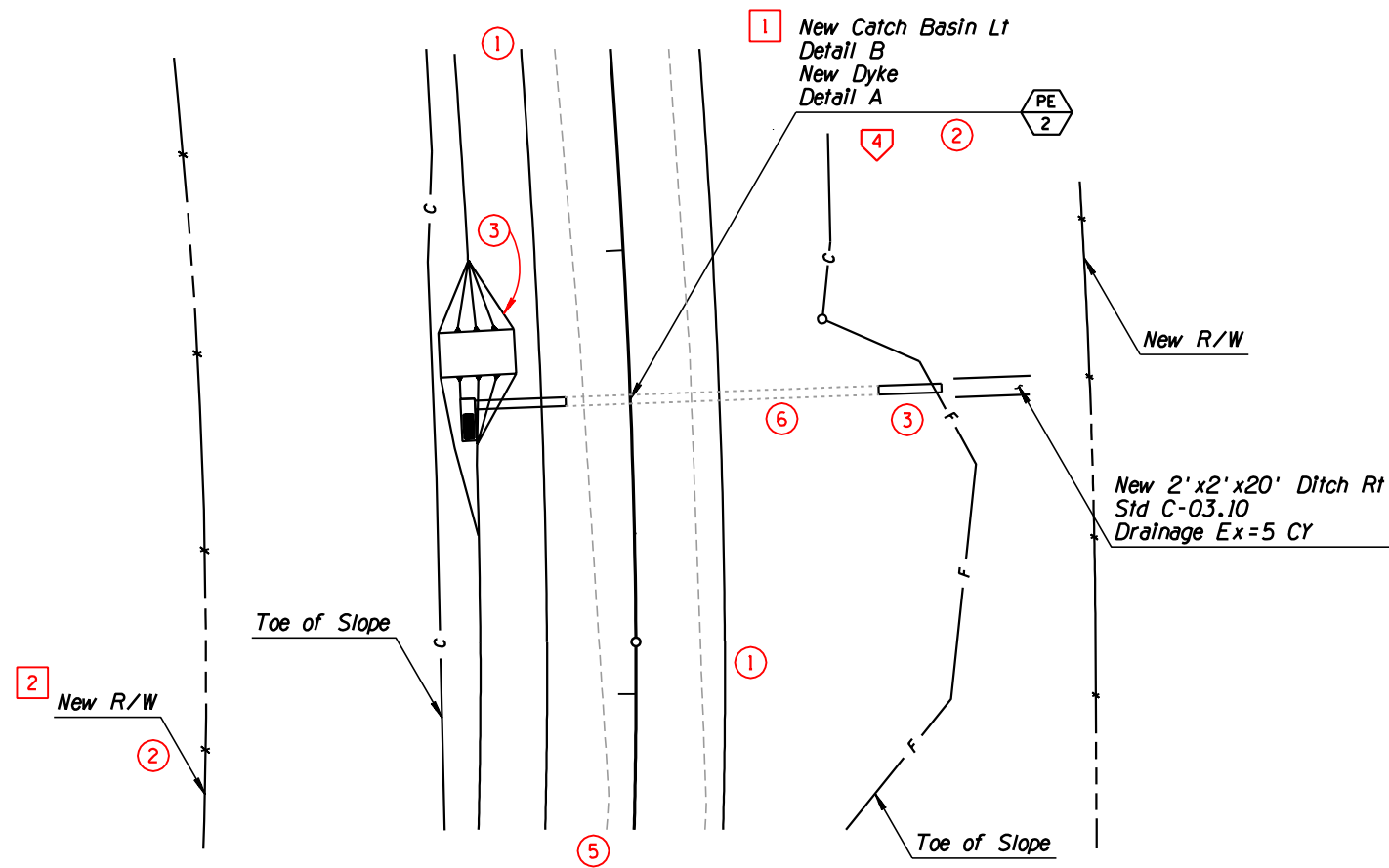
CADD TEXT PARAMETERS								MANUAL TEXT PARAMETERS				
Reference No.	<div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments				
<div>1</div>		39	23	17.5	4	8.75	LB					
<div>2</div>		30	23	17.5	4	8.75	LB					
<div>3</div>		39	1	15	2	7.5	CB					
<div>4</div>		62	1	20	6	11	CC					
<div>5</div>		14	23	15	2	7.5	LB					
<div>6</div>		21	23	17.5	4	8.75	CB					
<div>7</div>		25	23	15	2	7.5	CB					
<div>8</div>		39	1	17.5	4	8.75	CB					
GRAPHIC PARAMETERS												
Reference No.	<div></div>	LV/CO=	▲WT=	LC=	Comments							
<div>1</div>		35	3	0								
<div>2</div>		<div>●</div>	1	0	● LV/CO shall be the same LV/CO as Text placed for item							
<div>3</div>		38	3	0								
<div>4</div>		-	-	-	ADOT Standard arrow head; Typical							
<div>5</div>		16	1	3								
<div>6</div>		13	1	5								
<div>7</div>		25	1	0								
<div>8</div>		59	1	5								
NOTE: The subdued background shown can be produced by an electrostatic plotter using a modified pen table or by using conventional layering methods with screens. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.												
NOTE: For project related sheets, see standards: P-03.10; P-03.25; P-05.10; P-05.20; P-07.25												
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT SIZE WT - LINE WEIGHT LS - LINE SPACING TJ - TEXT JUSTIFICATION AC - ACTIVE CELL												
<div><div></div> - Text Reference Callout</div> <div><div></div> - Graphic Reference Callout</div> <div><div></div> - User Note Reference Callout</div>												
▲ See Std P-00.60 Line Weight Table for Manual Construction. Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - 1"=100') using ADOT's Standard Working Units.												

Reference No.	<div></div>	Text Size	Rapidograph Pen Size	Style	Comments	
<div>1</div>	<div>2</div>	<div>6</div>	No. 6 Ames/200 Leroy	2	Slant	
<div>3</div>			No. 5 Ames/175 Leroy	0	Straight	
<div>4</div>			No. 7 Ames/240 Leroy	3	Slant	
<div>5</div>	<div>7</div>		No. 5 Ames/175 Leroy	0	Slant	
<div>8</div>			No. 6 Ames/200 Leroy	2	Straight	
USER NOTES						
Reference No.	<div></div>	Comments				
<div>1</div>		See Std P-00.70 for Title Block & Project Number Block Layout				
<div>2</div>		See Std P-00.70 for Profile Sheet Overlay				
<div>3</div>		See Std P-00.61 for Detail Sheet Format				
<div>4</div>		See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout				

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS	DRAWING NO. P-05.30
SAMPLE CULVERT DETAIL SHEET FOR PIPE EXTENSION		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	BRS-355(41)	10	35	

089A YV 384



DETAIL D5

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
DRAWN	T. MACBETH	10-90	HIGHWAY PLANS SERVICES
CHECKED	M. HAUER	10-90	CULVERT DETAIL SHEET
TEAM LEADER	R. DELANO	12-90	Sta 771+64
	J. BRUBAKER		DETAIL D5
ROUTE	LOCATION		
US 89A	NEW DRY CREEK		

SHEET 5 OF 6

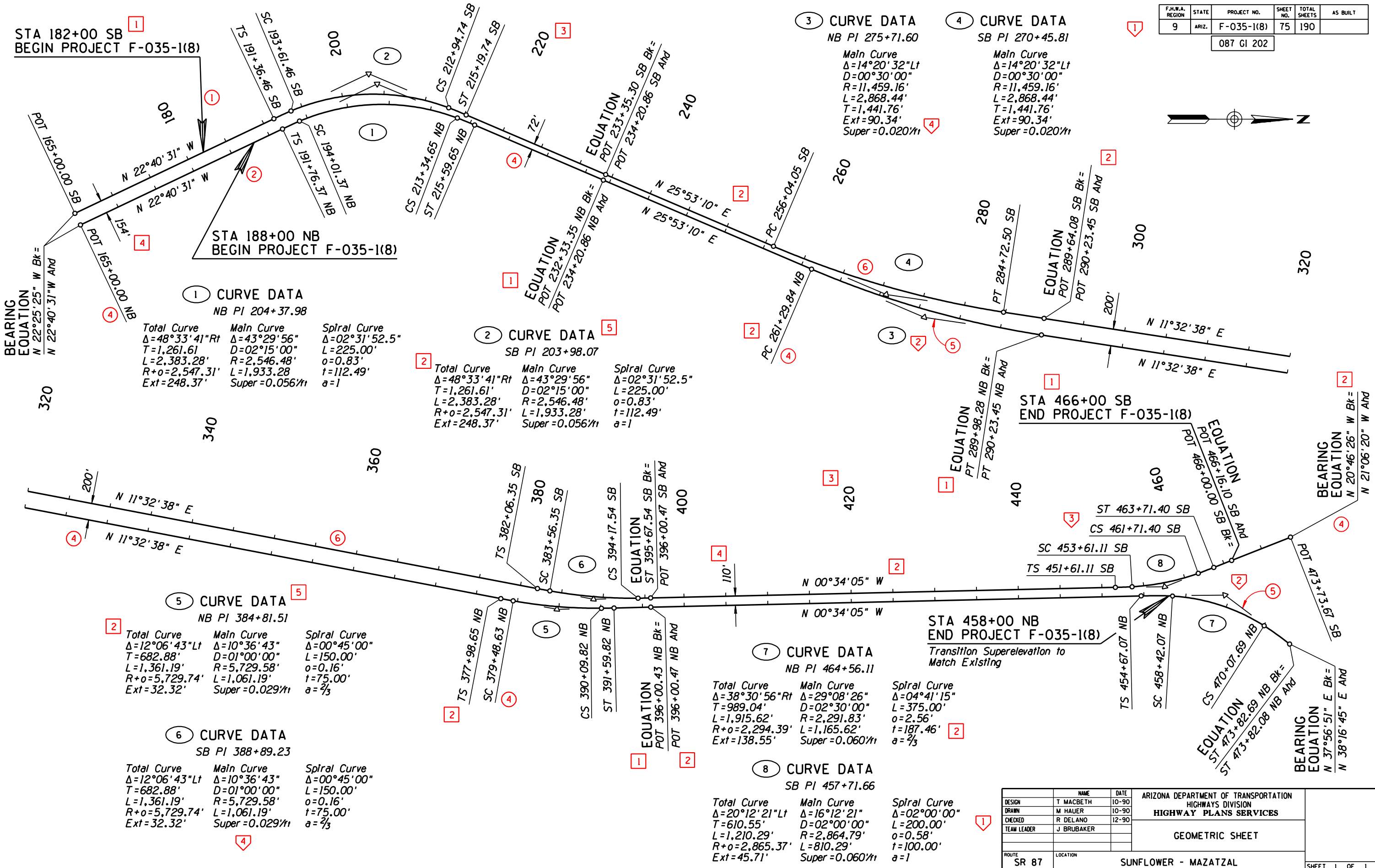
SURVEY NO.	FINISHED PLANS	REVISIONS	LOCATION	DATE

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30
31	32	33	34	35
36	37	38	39	40
41	42	43	44	45
46	47	48	49	50
51	52	53	54	55
56	57	58	59	60
61	62	63	64	65
66	67	68	69	70
71	72	73	74	75
76	77	78	79	80
81	82	83	84	85
86	87	88	89	90
91	92	93	94	95
96	97	98	99	100

CADD TEXT PARAMETERS								MANUAL TEXT PARAMETERS							
Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style	Comments			
1	28	1	22	6	11	LB		1 3 5	No. 7 Ames/240 Leroy	3	Straight				
2	28	23	17.5	4	8.75	LB		2 4	No. 6 Ames/200 Leroy	2	Slant				
3	28	1	22	6	-	LC									
4	25	23	17.5	4	8.75	LB									
5	28	1	22	6	11	CC									
GRAPHIC PARAMETERS															
Reference No.	LV/CO=	WT=	LC=	Comments											
1	28	4	0												
2	28	4	0	ADOT Standard Line Terminator; modify scale 4 times larger											
3	27	6	0												
4	1	1	0	1 LV/CO shall match LV/CO of Text placed for item											
5	28	1	0												
NOTE : For project related sheets, see standards: P-02.10; P-02.15								USER NOTES							
								Reference No.	Comments						
								1	See Std P-00.70 for Title Block & Project Number Block Layout						
								2	Locate Top Point of PI Toward CC of Curve						
								3	Horizontal Control Point Callouts are Shown Perpendicular to						
									Roadway &; Some Adjustment to Leader Line May be Necessary						
								4	Show Super Elevation in Feet per Foot to 3 Decimal Places						
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT SIZE WT - LINE WEIGHT LS - LINE SPACING TJ - TEXT JUSTIFICATION AC - ACTIVE CELL								APPROVED FOR DISTRIBUTION				STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS		DRAWING NO. P-06.10	
1 - Text Reference Callout 2 - Graphic Reference Callout 3 - User Note Reference Callout								See Std P-00.60 Line Weight Table for Manual Construction. Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units.							

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	F-035-1(8)	75	190	

087 GI 202



DATE	LOCATION	REVISIONS	FINISHED PLANS	SURVEY NO.

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIGHWAY PLANS SERVICES
DESIGN	T MACBETH	10-90	
DRAWN	M HAUER	10-90	
CHECKED	R DELANO	12-90	
TEAM LEADER	J BRUBAKER		
			GEOMETRIC SHEET
ROUTE	LOCATION		
SR 87	SUNFLOWER - MAZATZAL		
			SHEET 1 OF 1

STD P-06.10

[illegible]

1

NO.				
DESCRIPTION OF REVISION				

CADD TEXT PARAMETERS								MANUAL TEXT PARAMETERS									
Reference No. <div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	Reference No. <div></div>	Text Size	Rapidograph Pen Size	Style	Comments					
<div>1</div>	13	23	15	2	7.5	LB		<div>1</div> <div>4</div> <div>11</div> <div>13</div>	No. 5 Ames/ 175 Leroy	0	Slant						
<div>2</div>	39	23	17.5	4	8.75	LB		<div>2</div> <div>6</div> <div>7</div> <div>8</div>									
<div>3</div>	27	1	22	6	11	LC		<div>9</div> <div>10</div>	No. 6 Ames/ 200 Leroy	2	Slant						
<div>4</div>	19	23	15	2	7.5	LB		<div>3</div> <div>5</div> <div>12</div>	No. 7 Ames/ 240 Leroy	3	Straight						
<div>5</div>	28	1	22	6	11	CB											
<div>6</div>	28	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown										
<div>7</div>	25	23	17.5	4	8.75	CB											
<div>8</div>	30	23	17.5	4	8.75	LB											
<div>9</div>	36	23	17.5	4	8.75	LB											
<div>10</div>	51	23	17.5	4	8.75	LB											
<div>11</div>	62	23	15	2	7.5	LB											
<div>12</div>	62	1	20	6	-	CB	Use Text Nodes supplied with cell										
<div>13</div>	62	23	15	2	7.5	LB											
GRAPHIC PARAMETERS																	
Reference No. <div></div>	LV/CO=	▲WT=	LC=	Comments													
<div>1</div>	<div></div>	1	0	● LV/CO shall match the same LV/CO as Text placed for item													
<div>2</div>	35	3	0														
<div>3</div>	16	1	3														
<div>4</div>	48	1	0														
<div>5</div>	59	1	0														
<div>6</div>	27	6	0														
<div>7</div>	38	3	0														
<div>NOTE:</div> The subdued background shown can be produced by an electrostatic plotter using a modified pen table or by using conventional layering methods with screens. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional. <div>NOTE:</div> For project related sheets, see standards: P-03.10; P-03.25; P-05.10; P-05.20; P-05.30								USER NOTES									
								Reference No. <div></div>	Comments								
								<div>1</div>	See Std P-00.70 for Title Block & Project Number Block Layout								
								<div>2</div>	See Std P-00.70 for Profile Sheet Overlay								
								<div>3</div>	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout								
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT SIZE WT - LINE WEIGHT LS - LINE SPACING TJ - TEXT JUSTIFICATION AC - ACTIVE CELL								Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - 1"=100') using ADOT's Standard Working Units.				APPROVED FOR DISTRIBUTION		STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS		DRAWING NO. P-07.25	
								EXAMPLE PLAN & PROFILE SHEET FOR RURAL UNDIVIDED ROADWAY									

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	BRS-355(41)	16	30	

089A YV 384

5 CURVE DATA

PI Sta 768+73.03

Total Curve
 $\Delta = 29^\circ 23' 40''$ Lt
 $T = 496.12'$
 $L = 974.86'$
 $R + o = 1,434.07'$
 $Ext = 50.19'$

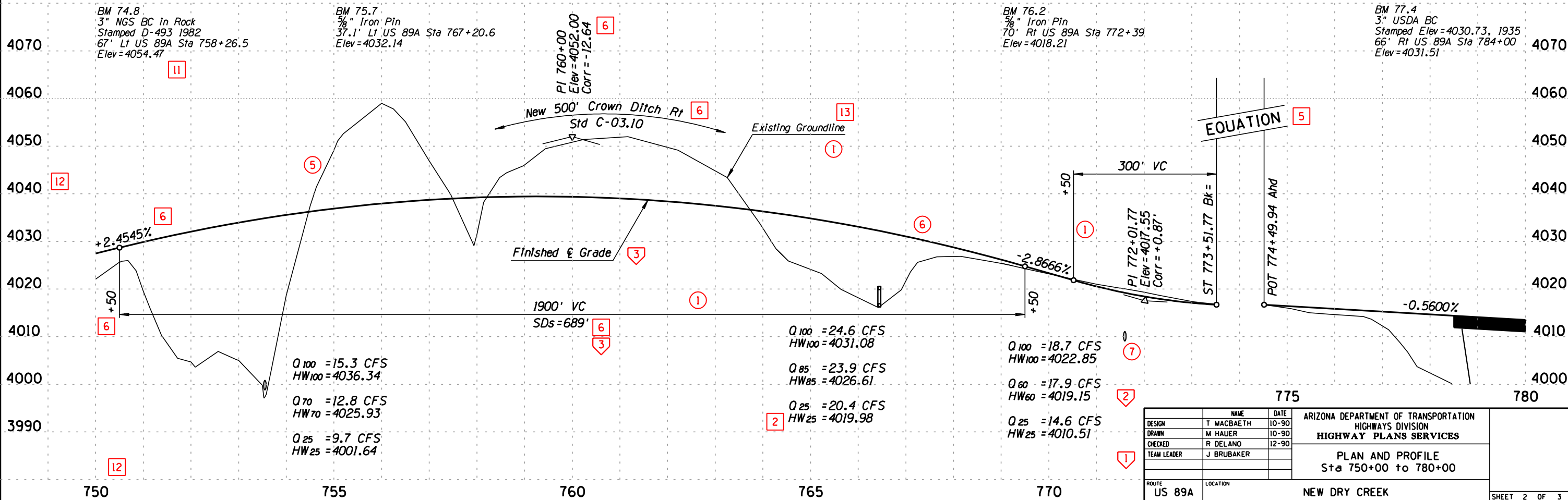
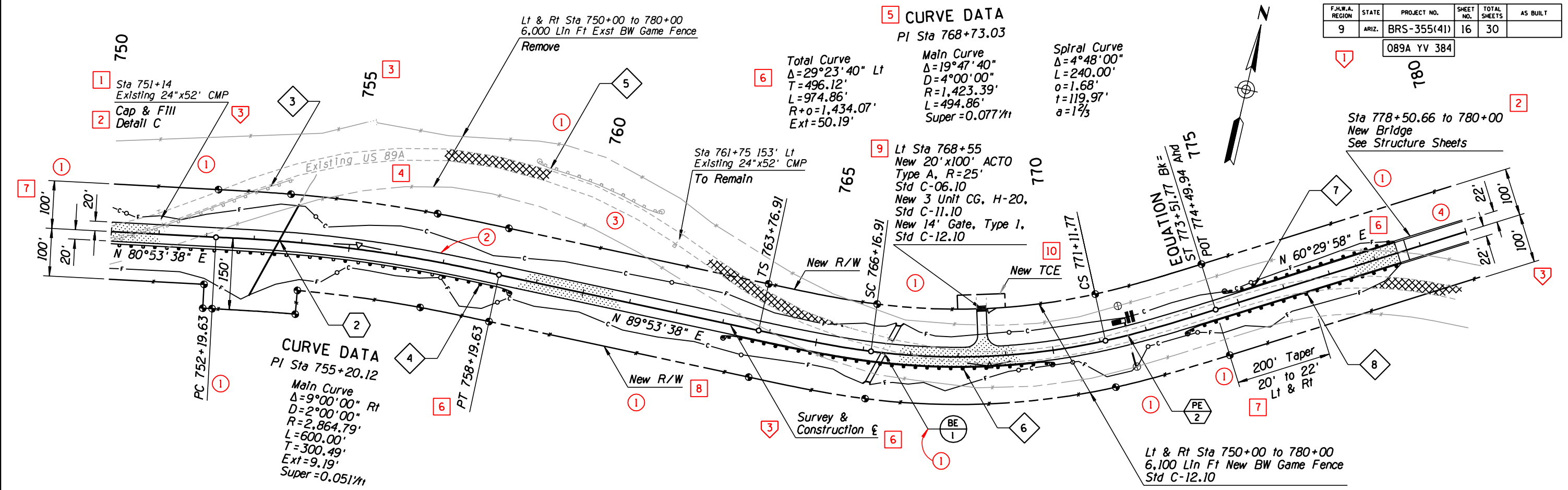
Main Curve
 $\Delta = 19^\circ 47' 40''$
 $D = 4^\circ 00' 00''$
 $R = 1,423.39'$
 $L = 494.86'$
 $Super = 0.077'/ft$

Spiral Curve
 $\Delta = 4^\circ 48' 00''$
 $L = 240.00'$
 $o = 1.68'$
 $t = 119.97'$
 $a = 1\frac{2}{3}$

CURVE DATA

PI Sta 755+20.12

Main Curve
 $\Delta = 9^\circ 00' 00''$ Rt
 $D = 2^\circ 00' 00''$
 $R = 2,864.79'$
 $L = 600.00'$
 $T = 300.49'$
 $Ext = 9.19'$
 $Super = 0.051'/ft$



DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIGHWAY PLANS SERVICES
DRAWN	T. MACBAETH	10-90	
CHECKED	M. HAUER	10-90	
TEAM LEADER	R. DELANO	12-90	
ROUTE US 89A			PLAN AND PROFILE Sta 750+00 to 780+00
LOCATION NEW DRY CREEK			SHEET 2 OF 3

CADD TEXT PARAMETERS							
Reference No. <div><div></div></div>	LV/C0=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	27	1	17.5	4	8.75	LC	
<div>2</div>	28	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown
<div>3</div>	25	23	17.5	4	8.75	CB	
<div>4</div>	45	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown
<div>5</div>	30	23	17.5	4	8.75	LB	
<div>6</div>	36	23	17.5	4	8.75	LB	
<div>7</div>	10	23	17.5	4	8.75	CB	
<div>8</div>	29	23	15	2	7.5	LB	
<div>9</div>	10	23	15	2	7.5	LB	
<div>10</div>	10	23	17.5	4	8.75	LB	
<div>11</div>	3	23	15	2	7.5	LB	
<div>12</div>	20	23	15	2	7.5	LB	
<div>13</div>	54	1	17.5	4	8.75	CB	
<div>14</div>	55	23	17.5	4	8.75	LB	
<div>15</div>	12	23	15	2	7.5	LB	
<div>16</div>	12	23	17.5	4	8.75	LB	
<div>17</div>	45	23	15	2	7.5	LB	
GRAPHIC PARAMETERS							
Reference No. <div><div></div></div>	LV/C0=	▲WT=	LC=	Comments			
<div>①</div>	●	1	0	① LV/C0 shall be the same LV/C0 as Text placed for item			
<div>②</div>	-	-	-	ADOT Standard Line Terminator, typical			
<div>NOTE: The subdued background shown can be produced by an electrostatic plotter using a modified pen table or by using conventional layering methods with screens. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.</div> <div>NOTE: For project related sheets, see standards: P-02.30; P-02.31; P-08.30; P-12.20; P-13.20</div>							

MANUAL TEXT PARAMETERS				
Reference No. <div><div></div></div>	Text Size	Rapidograph Pen Size	Style	Comments
<div>1</div> <div>13</div>	No. 7 Ames/ 240 Leroy	3	Straight	
<div>2</div> <div>3</div> <div>4</div> <div>5</div>				
<div>10</div> <div>14</div> <div>16</div>	No. 6 Ames/ 200 Leroy	2	Slant	
<div>6</div> <div>8</div> <div>9</div> <div>11</div>				
<div>12</div> <div>15</div> <div>17</div>	No. 5 Ames/ 175 Leroy	0	Slant	
<div>7</div>	No. 4 Ames/ 120 Leroy	00	Slant	
USER NOTES				
Reference No. <div><div></div></div>	Comments			
<div>I</div>	See Std P-00.70 for Title Block & Project Number Block Layout			

Abbreviations:

LV - LEVEL

CO - COLOR

FT - FONT

TX - TEXT SIZE

WT - LINE WEIGHT

LS - LINE SPACING

TJ - TEXT JUSTIFICATION

AC - ACTIVE CELL

- Text Reference Callout

- Graphic Reference Callout

- User Note Reference Callout

▲ See Std P-00.60 Line Weight Table for Manual Construction.

Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - 1"=100') using ADOT's Standard Working Units.

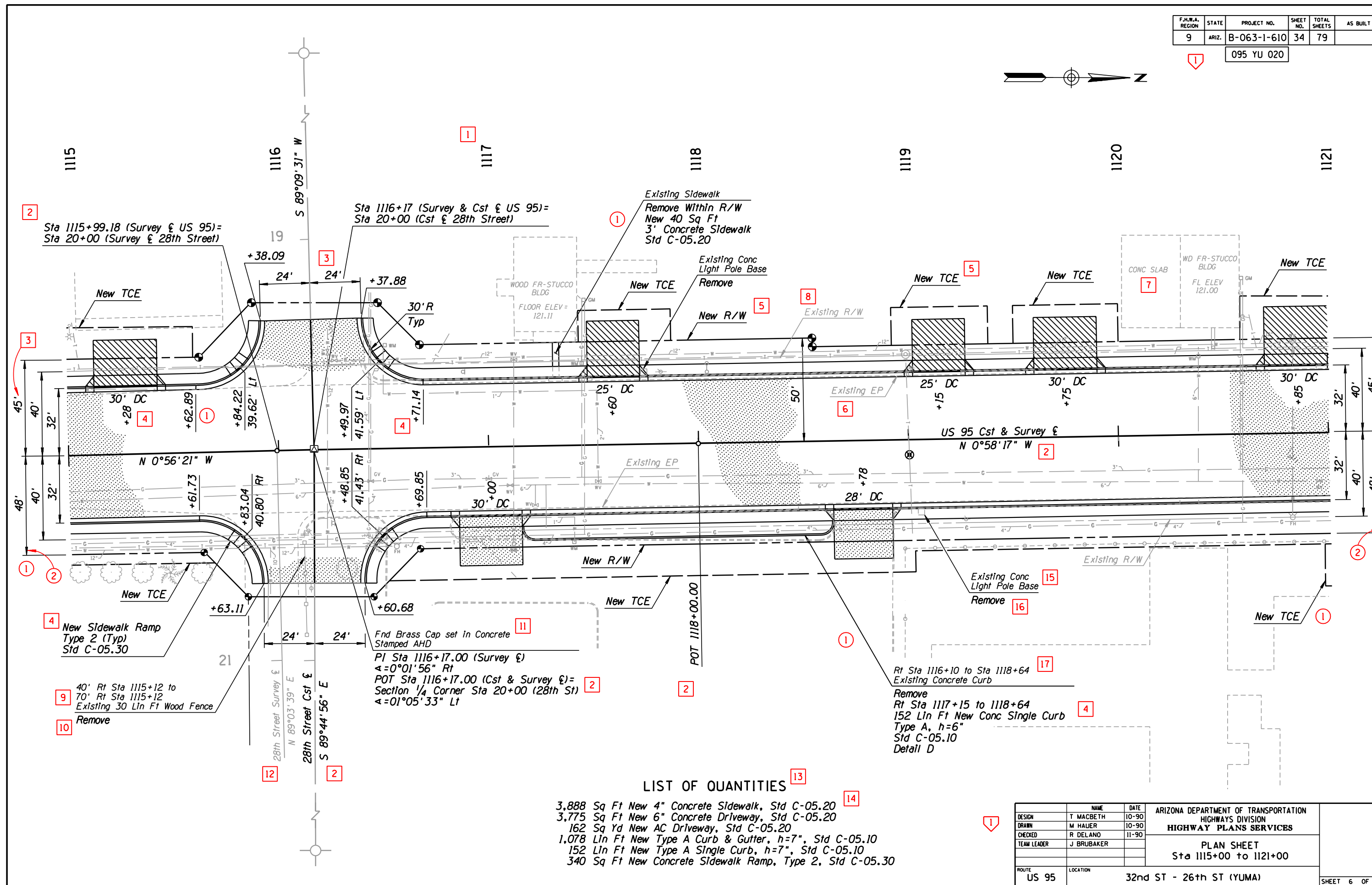
APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STANDARD DRAWINGS

SAMPLE PLAN SHEET FOR
URBANIZED AREA ROADWAY

DRAWING NO.
P-07.30

095 YU 020

[illegible]

S:\STANDARDS\HP_DEV\ENGLISH\P_STANDARDS\0730.DGN
28 OCT 99

STD P-07.30

DESCRIPTION OF REVISION				
NO	<	<	<	<

CADD TEXT PARAMETERS								MANUAL TEXT PARAMETERS							
Reference No.	□	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	Reference No.	□	Text Size	Rapidograph Pen Size	Style	Comments	
1		62	23	15	2	7.5	LB		1	8	No. 5 Ames/175 Leroy	0	Slant		
2		62	1	20	2	-	CC	Use Text Node supplied with cell and change weight	3	6	No. 7 Ames/240 Leroy	3	Straight		
3		62	1	20	6	-	CC	Use Text Nodes supplied with cell	4	5	No. 6 Ames/200 Leroy	2	Slant		
4		39	23	17.5	4	8.75	LB		7		No. 6 Ames/200 Leroy	2	Straight		
5		28	23	17.5	4	8.75	CB	TJ=CT if text string is placed under text line	2		No. 7 Ames/240 Leroy	0	Straight		
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	CB								
GRAPHIC PARAMETERS															
Reference No.	○	LV/CO=	▲WT=	LC=	Comments										
1		20	1	3											
2		28	4	0	ADOT Standard Line Terminator; modify scale 4 times larger										
3		59	1	0											
4		●	1	0	● LV/CO shall be the same LV/CO as text placed for the item										
5		-	-	-	ADOT Standard Line Terminator, typical										
6		38	3	0											
7		13	1	5											
8		27	6	0											
9		28	4	0											
10		48	3	0											
<p>NOTE: The subdued background shown can be produced by an electrostatic plotter using a modified pen table or by using conventional layering methods with screens. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.</p> <p>NOTE: For project related sheets, see standards: P-02.20; P-03.20; P-03.30; P-07.20</p>								USER NOTES							
Reference No.		Comments													
1		See Std P-00.70 for Title Block & Project Number Block Layout													
2		See Std P-00.70 for Profile Sheet Overlay													
3		Double arrows are shown for continuation on the adjacent sheet													
4		Identify plus station for other than +00													
<p>Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT SIZE WT - LINE WEIGHT LS - LINE SPACING TJ - TEXT JUSTIFICATION AC - ACTIVE CELL</p> <p>□ - Text Reference Callout ○ - Graphic Reference Callout ▽ - User Note Reference Callout</p> <p>▲ See Std P-00.60 Line Weight Table for Manual Construction.</p> <p>Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - 1"=100') using ADOT's Standard Working Units.</p>								APPROVED FOR DISTRIBUTION		STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS				DRAWING NO. P-08.20	
PROFILE SHEET FOR RURAL UNDIVIDED ROADWAY															

F.A.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	BP-063-2-310	31	63	

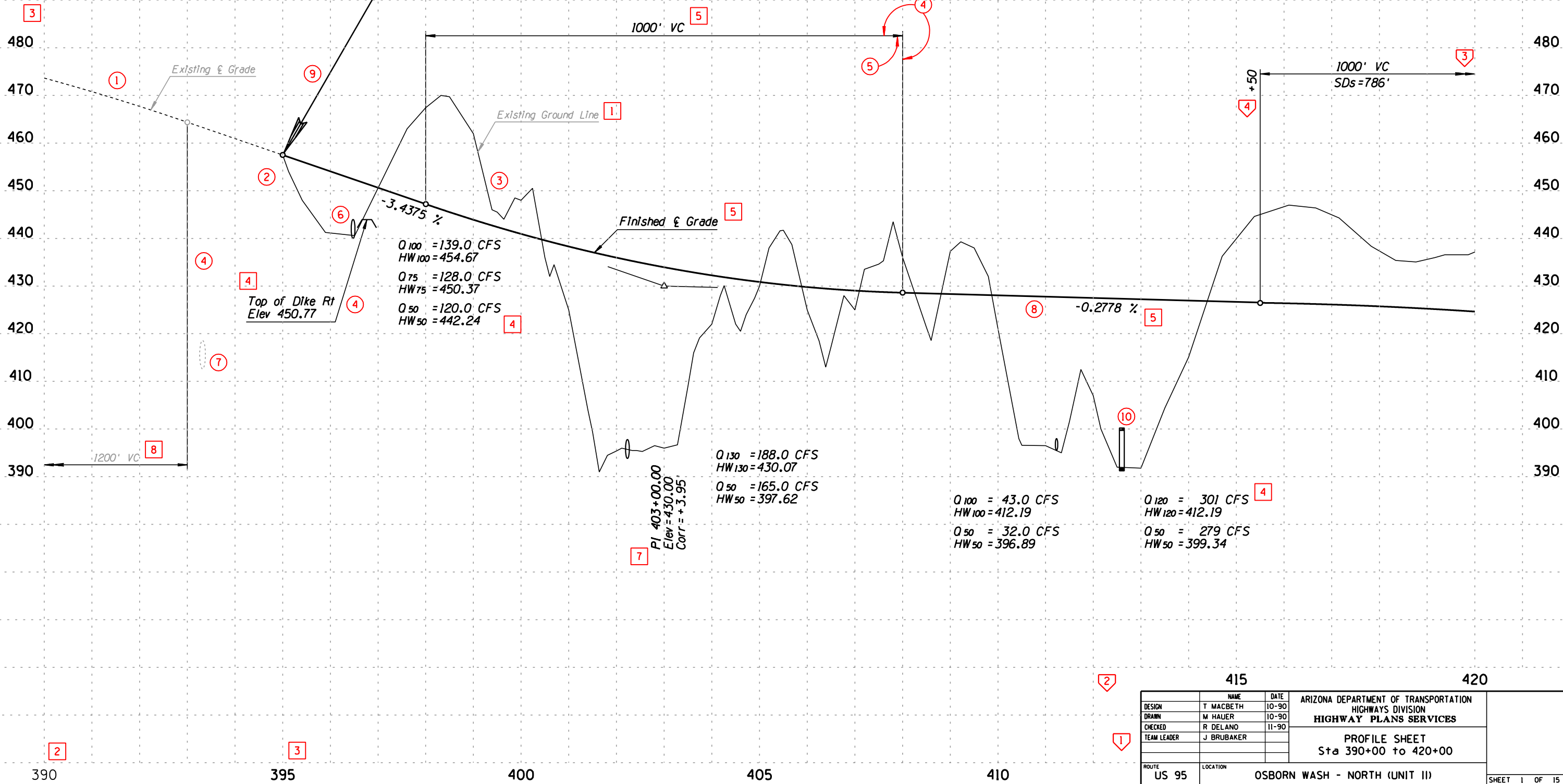
095 LP 148

BM #42-150.0' Rt & Sta 420+00
5/8" IP&G Elev=408.76

BM #40-100.0' Rt & Sta 400+00
5/8" IP&G Elev=470.47

BM #41-100.0' Rt & Sta 409+70
5/8" IP&G Elev=434.51

STA 395+00
BEGIN PROJECT BP-063-2-310

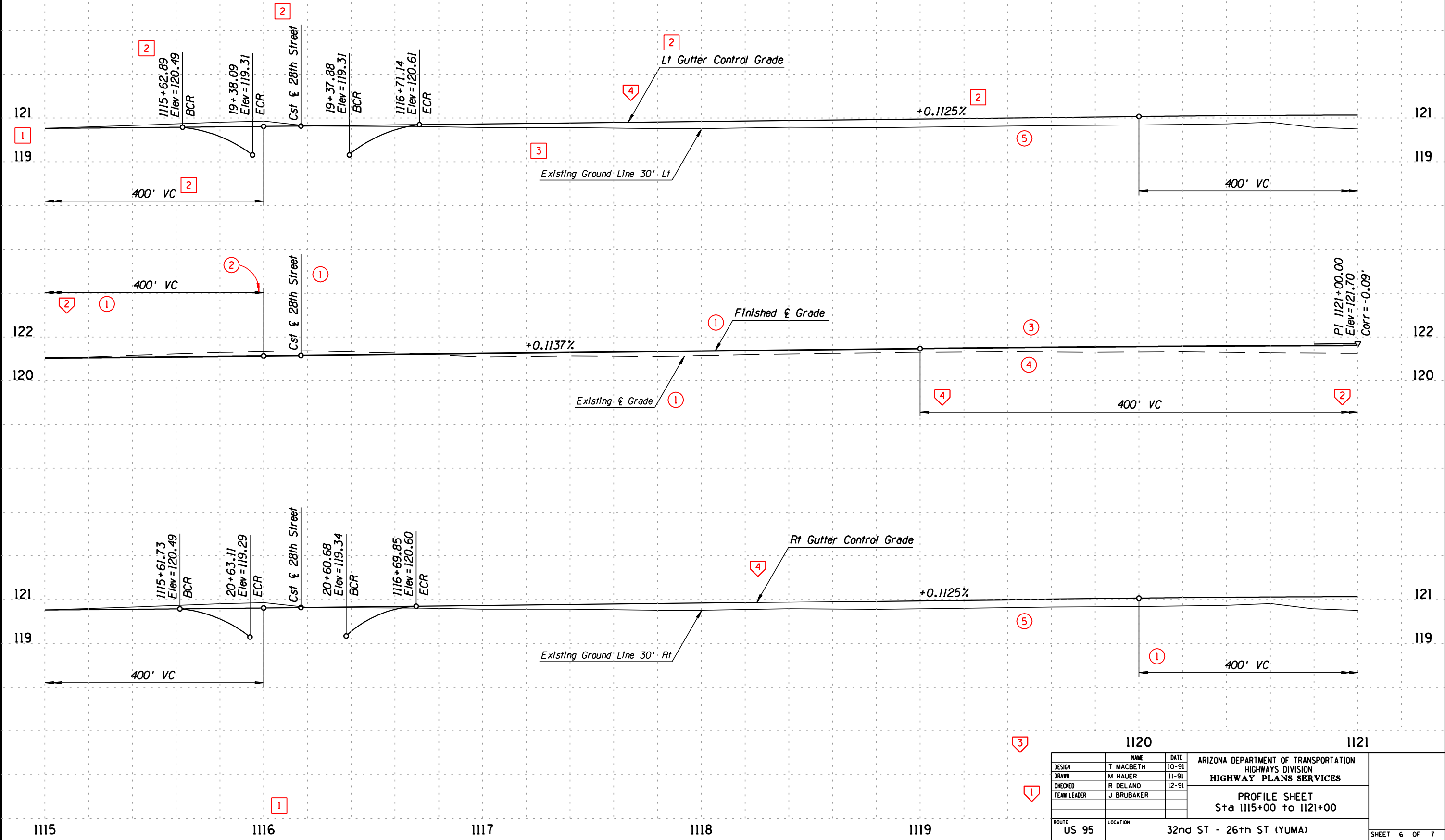


SURVEY NO.	FINISHED PLANS	REVISIONS	LOCATION	DATE

CADD TEXT PARAMETERS							
Reference No. <div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	62	1	20	6	11	CB	
<div>2</div>	28	23	17.5	4	8.75	LB	
<div>3</div>	62	23	15	2	7.5	LB	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	B-063-1-610	33	79	

095 YU 020



DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
DRAWN	T MACBETH	10-91	HIGHWAY PLANS SERVICES
CHECKED	M HAUER	11-91	
TEAM LEADER	R DELANO	12-91	
	J BRUBAKER		
ROUTE	LOCATION		
US 95	32nd ST - 26th ST (YUMA)		

PROFILE SHEET
Sta 1115+00 to 1121+00

SHEET 6 OF 7

TRACS NO. H0000 01 C

OF

STD P-08.30

DESCRIPTION OF REVISION				
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CADD TEXT PARAMETERS								MANUAL TEXT PARAMETERS						
Reference No.	<div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	Reference No.	<div></div>	Text Size	Rapidograph Pen Size	Style	Comments
<div>1</div>		28	23	17.5	4	8.75	LB		<div>1</div>		No. 6 Ames/ 200 Leroy	2	Slant	
GRAPHIC PARAMETERS									USER NOTES					
Reference No.	<div></div>	LV/CO=	▲WT=	LC=	Comments									
<div>1</div>		27	3	0	New Centerlines shall be a weight of 3 when shown on Storm Drain plan sheet only									
NOTE: The subdued background shown can be produced by an electrostatic plotter using a modified pen table or by using conventional layering methods with screens. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.														
NOTE: For project related sheets, see standards: P-13.10														
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT SIZE WT - LINE WEIGHT LS - LINE SPACING TJ - TEXT JUSTIFICATION AC - ACTIVE CELL														
<div><div></div> - Text Reference Callout</div> <div><div></div> - Graphic Reference Callout</div> <div><div></div> - User Note Reference Callout</div>														
▲ See Std P-00.60 Line Weight Table for Manual Construction. Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - 1"=100') using ADOT's Standard Working Units.														

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	RAM-600-9-500	114	314	
202L MA 147					

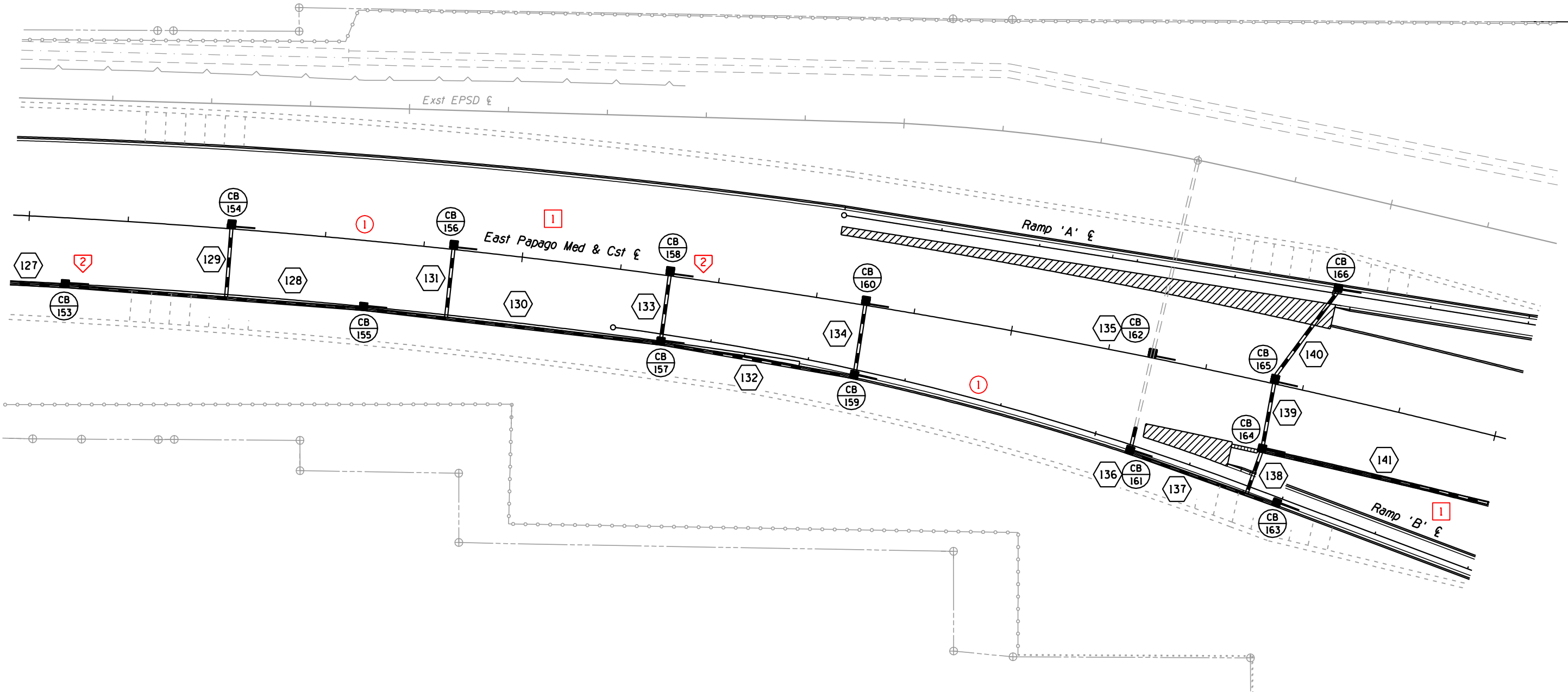


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SURVEY NO.	FINISHED PLANS	REVISIONS	LOCATION	DATE



DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIGHWAY PLANS SERVICES EAST PAPAGO MAINLINE STORM DRAIN PLAN Sta 1030+00 to 1045+00
DRAWN	T. MACBETH	10-90	
CHECKED	M. HAUER	10-90	
TEAM LEADER	R. DELANO	11-90	
	J. BRUBAKER		
ROUTE	LOCATION		
202L	JCT I-10 - 40th STREET		

SHEET 3 OF 11

TRACS NO.

OF

NO.				
DESCRIPTION OF REVISION				

CADD TEXT PARAMETERS								MANUAL TEXT PARAMETERS												
Reference No.	<div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	Reference No.	<div></div>	Text Size	Rapidograph Pen Size	Style	Comments						
<div>1</div>		28	23	17.5	4	8.75	LB		<div>1</div>		No. 6 Ames/ 200 Leroy	2	Slant							
GRAPHIC PARAMETERS																				
Reference No.	<div></div>	LV/CO=	▲WT=	LC=	Comments															
<div>1</div>		38	3	0																
<div>2</div>		27	3	0	New Centerline shall be a weight of 3 when shown on Storm Drain plan sheet only															
NOTE: The subdued background shown can be produced by an electrostatic plotter using a modified pen table or by using conventional layering methods with screens. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.								USER NOTES												
Reference No.	<div></div>	Comments																		
<div>1</div>		See Std P-00.70 for Title Block & Project Number Block Layout																		
NOTE: For project related sheets, see standards: P-13.15																				
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT SIZE WT - LINE WEIGHT LS - LINE SPACING TJ - TEXT JUSTIFICATION AC - ACTIVE CELL								<div></div> - Text Reference Callout <div></div> - Graphic Reference Callout <div></div> - User Note Reference Callout		▲ See Std P-00.60 Line Weight Table for Manual Construction. Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - 1"=100') using ADOT's Standard Working Units.					APPROVED FOR DISTRIBUTION		STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS		REV.	
										SAMPLE STORM DRAIN PLAN SHEET FOR URBAN FREEWAY CROSSROAD					DRAWING NO. P-12.15					

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	M-100-1-100	60	145	

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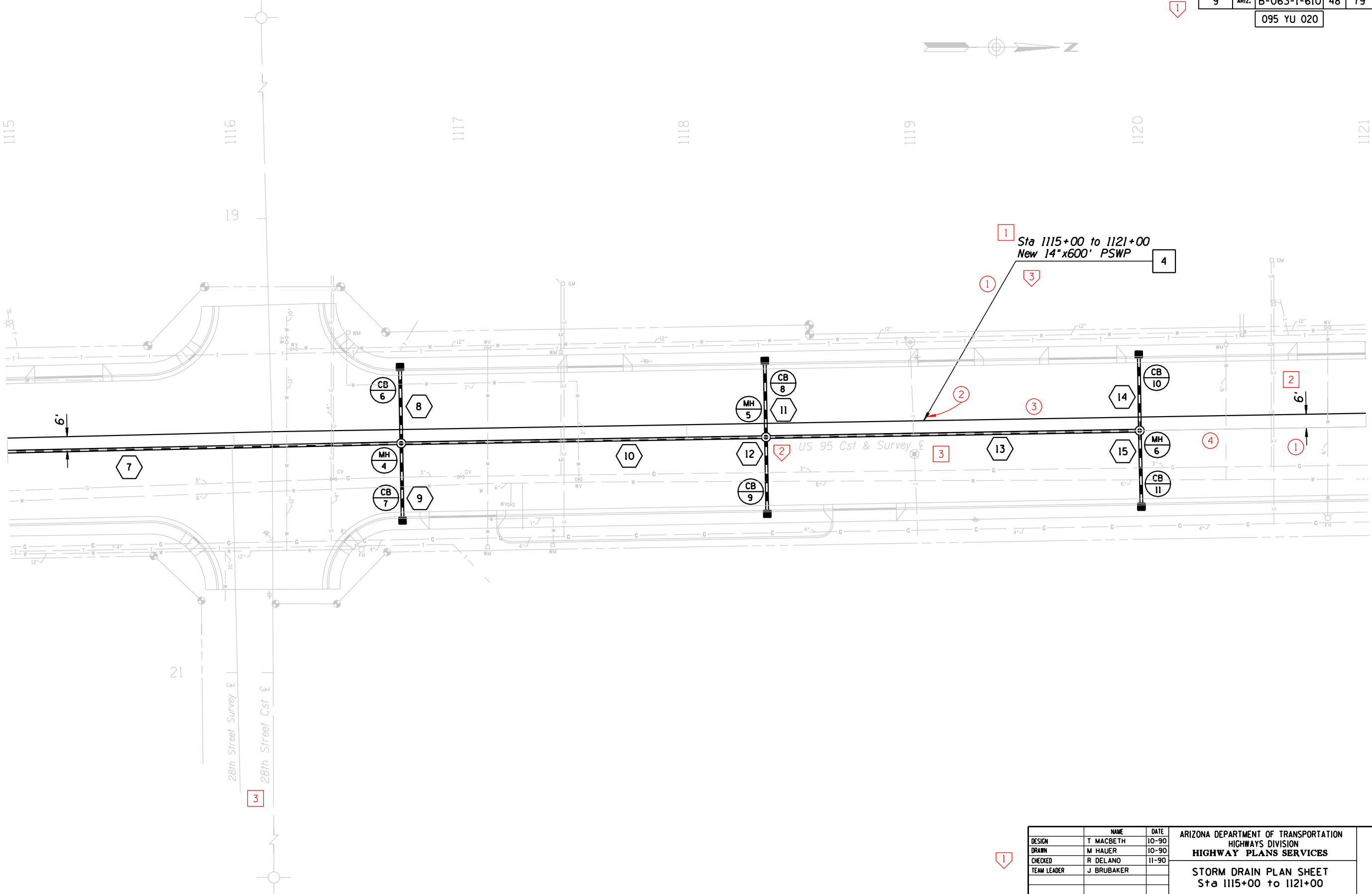
CB
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[illegible]

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	B-063-1-610	48	79	

095 YU 020

1



Sta 1115+00 to 1121+00
New 14"x600' PSWP

US 95 Cst & Survey

28th Street Survey

28th Street Cst

DESIGN	T MACBETH	DATE	10-90
DRAWN	M HAUER	DATE	10-90
CHECKED	R DELANO	DATE	11-90
TEAM LEADER	J BRUBAKER		
ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIGHWAY PLANS SERVICES			
STORM DRAIN PLAN SHEET Sta 1115+00 to 1121+00			
ROUTE	LOCATION		
US 95	32nd ST - 26th ST (YUMA)		

SHEET 10 OF 11

TRACS NO. H0000 01 C

OF

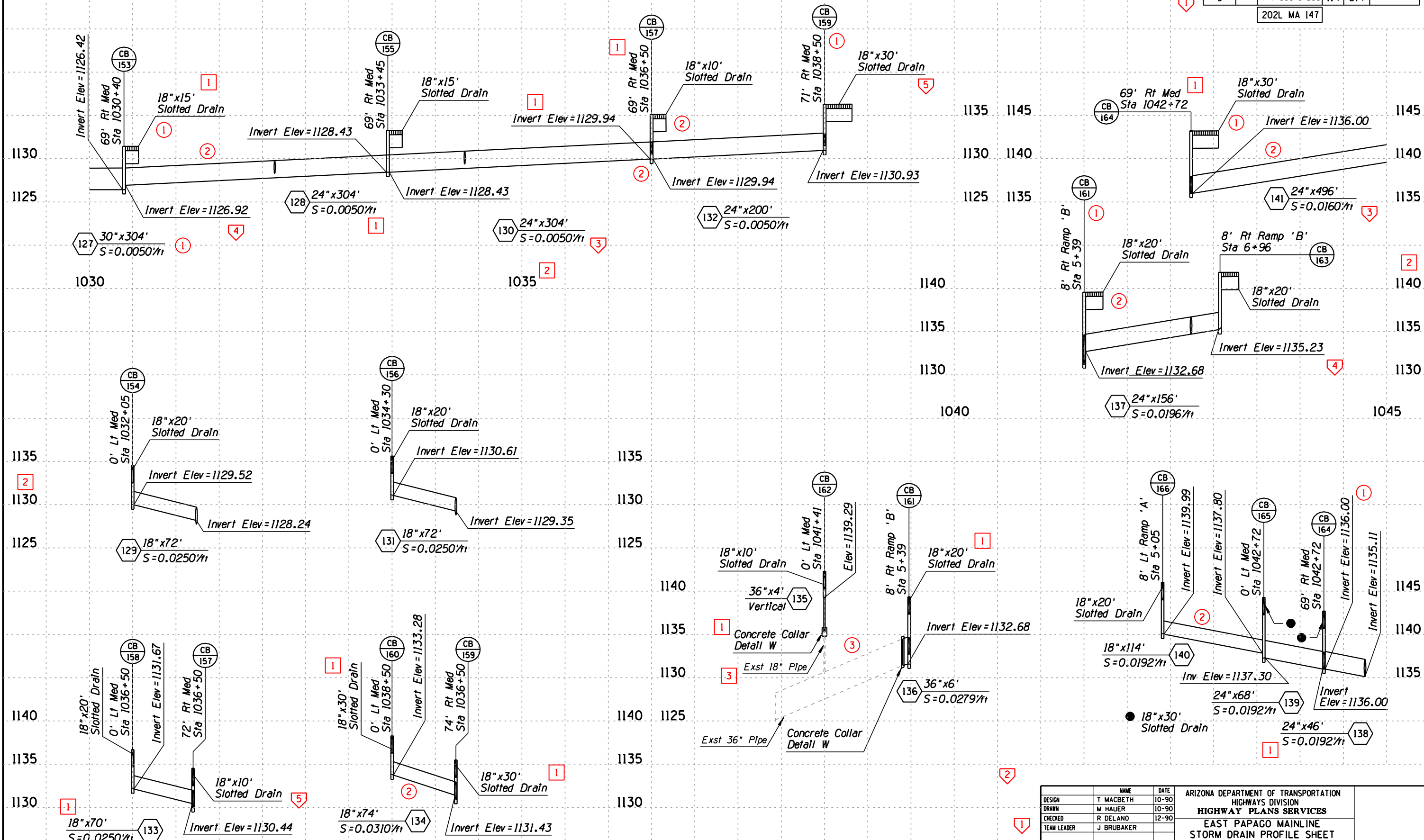
STD P-12.20

DESCRIPTION OF REVISION				
REV	NO.	DATE	BY	CHKD

CADD TEXT PARAMETERS								MANUAL TEXT PARAMETERS								
Reference No.	<div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	Reference No.	<div></div>	Text Size	Rapidograph Pen Size	Style	Comments		
<div>1</div>		39	23	17.5	4	8.75	LB		<div>1</div>		No. 6 Ames/200 Leroy	2	Slant			
<div>2</div>		62	1	22	6	11	CB		<div>2</div>		No. 7 Ames/240 Leroy	3	Straight			
<div>3</div>		14	23	15	2	7.5	LB		<div>3</div>		No. 5 Ames/175 Leroy	0	Slant			
GRAPHIC PARAMETERS																
Reference No.	<div></div>	LV/CO=	▲WT=	LC=	Comments											
<div>1</div>		<div>1</div>	1	0	● LV/CO shall match the LV/CO of the Text placed for item											
<div>2</div>		38	3	0												
<div>3</div>		13	1	5												
NOTE: The subdued background shown can be produced by an electrostatic plotter using a modified pen table or by using conventional layering methods with screens. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.									USER NOTES							
									Reference No.	<div></div>	Comments					
									<div>1</div>		See Std P-00.70 for Title Block & Project Number Block Layout					
									<div>2</div>		See Std P-00.70 for Profile Sheet Overlay					
									<div>3</div>		Show Slope in feet per foot to 4 decimal places					
									<div>4</div>		Show elevations to 2 decimal places					
									<div>5</div>		See Std P-00.61 for Leader Line Layout					
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT SIZE WT - LINE WEIGHT LS - LINE SPACING TJ - TEXT JUSTIFICATION AC - ACTIVE CELL									<div></div> - Text Reference Callout <div></div> - Graphic Reference Callout <div></div> - User Note Reference Callout				▲ See Std P-00.60 Line Weight Table for Manual Construction. Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - 1"=100') using ADOT's Standard Working Units.			
									APPROVED FOR DISTRIBUTION		STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS			DRAWING NO. P-13.10		
									SAMPLE STORM DRAIN PROFILE FOR URBAN FREEWAY MAINLINE							

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	RAM-600-9-500	114	314	

202L MA 147






NO.				
	1	2	3	4

CADD TEXT PARAMETERS							
Reference No. <div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	62	1	20	6	-	CB	Use text node supplied with cell
<div>2</div>	39	23	17.5	4	8.75	LB	

GRAPHIC PARAMETERS							

Reference No. <div></div>	LV/CO=	▲WT=	LC=	Comments
<div>1</div>	38	3	0	
<div>2</div>	●	1	0	● LV/CO shall match the same LV/CO of Text placed for item

NOTE: The subdued background shown can be produced by an electrostatic plotter using a modified pen table or by using conventional layering methods with screens. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.			
NOTE: For project related sheets, see standards: P-12.15			
NOTE: Do not use arrow heads to callout elevations			

Abbreviations:	LV - LEVEL		- Text Reference Callout	▲ See Std P-00.60 Line Weight Table for Manual Construction
	CO - COLOR		- Graphic Reference Callout	
	FT - FONT		- User Note Reference Callout	
	TX - TEXT SIZE			
	WT - LINE WEIGHT			Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - 1"=100') using ADOT's Standard Working Units.
	LS - LINE SPACING			
	TJ - TEXT JUSTIFICATION			
	AC - ACTIVE CELL			

MANUAL TEXT PARAMETERS				
Reference No. <div></div>	Text Size	Rapidograph Pen Size	Style	Comments
<div>1</div>	No. 7 Ames/ 240 Leroy	3	Straight	
<div>2</div>	No. 6 Ames/ 200 Leroy	2	Slant	

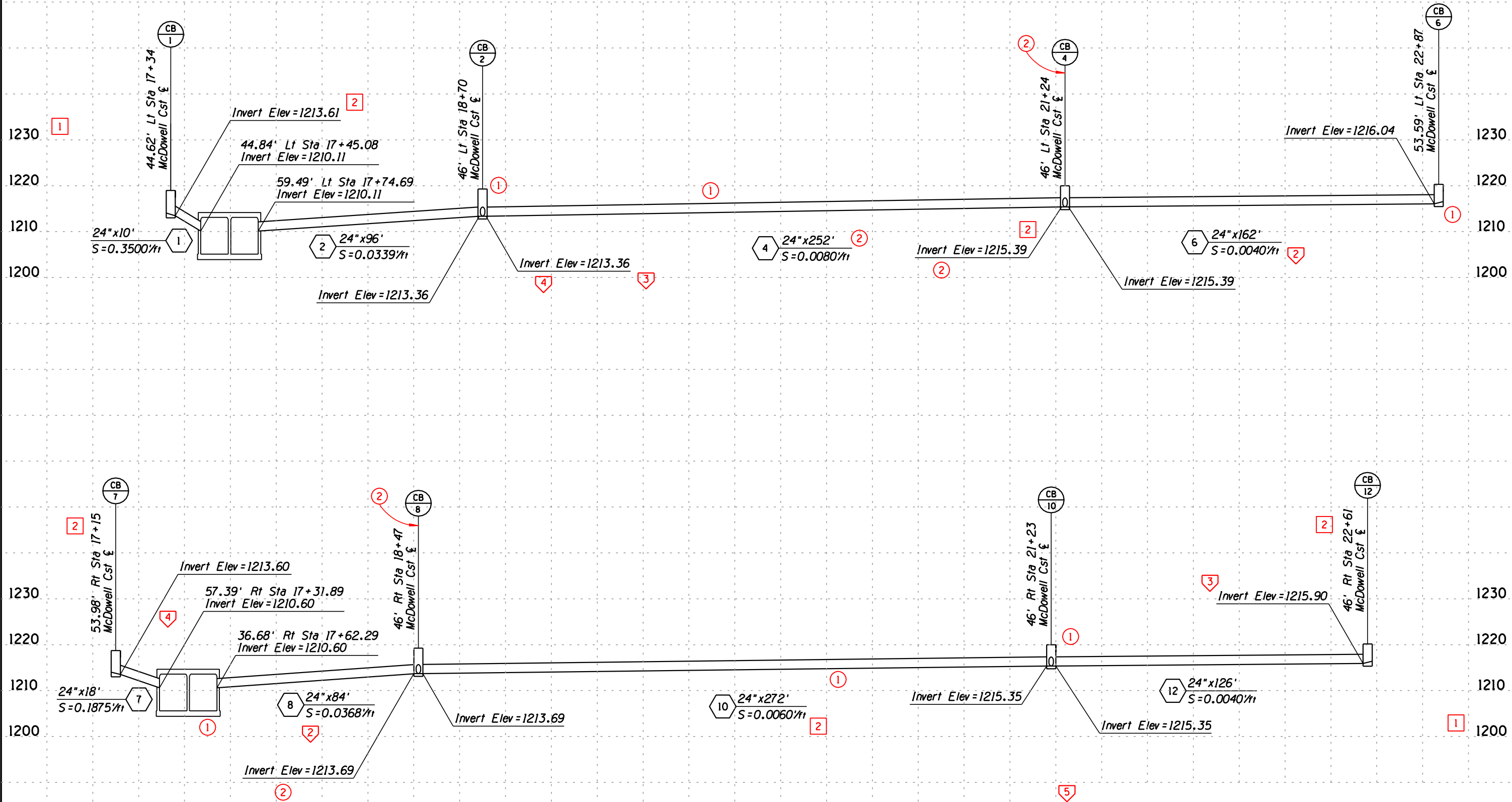
USER NOTES	

Reference No. <div></div>	Comments
<div>1</div>	See Std P-00.70 for Title Block & Project Number Block Layout
<div>2</div>	Show Slope in feet per foot to 4 decimal places
<div>3</div>	Show elevations to 2 decimal places
<div>4</div>	See Std P-00.61 for Leader Line Layout
<div>5</div>	See Std P-00.70 for Profile Sheet Overlay

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS	
	SAMPLE STORM DRAIN PROFILE SHEET FOR URBAN FREEWAY CROSSROAD	DRAWING NO. P-13.15

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	M-100-1-100	69	145	

10IL MA 45



DESIGN	T. MACBETH	DATE	7-91	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIGHWAY PLANS SERVICES STORM DRAIN PROFILE MCDOWELL ROAD
DRAWN	M. HAUER	DATE	7-91	
CHECKED	R. DELANO	DATE	8-91	
TEAM LEADER	J. BRUBAKER			
ROUTE	10IL	LOCATION	PIMA, CHAPARRAL - MCKELLIPS	SHEET 1 OF 8

TRACS NO.

OF

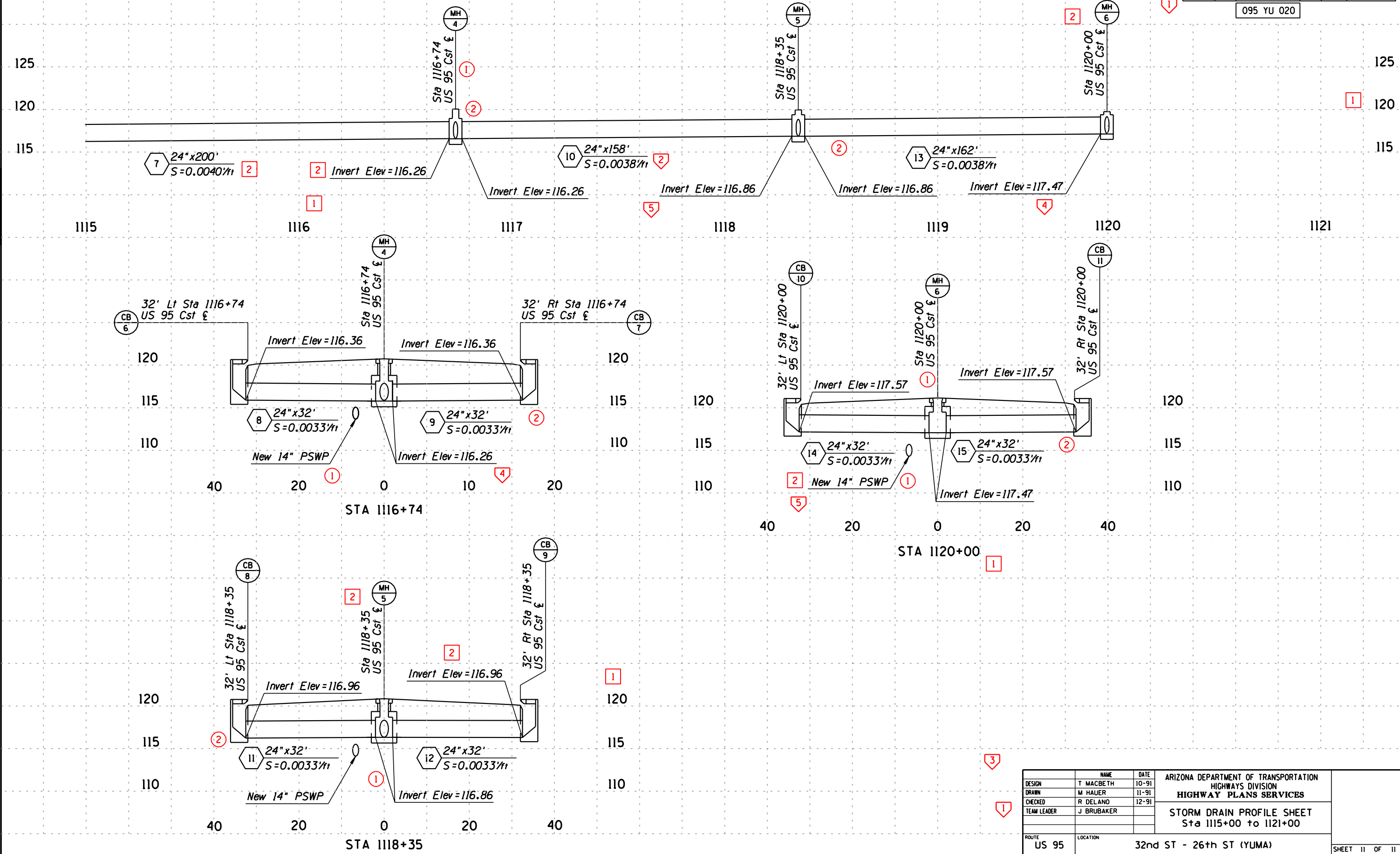
STD P-13.15

DESCRIPTION OF REVISION				
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CADD TEXT PARAMETERS								MANUAL TEXT PARAMETERS						
Reference No.	<div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	Reference No.	<div></div>	Text Size	Rapidograph Pen Size	Style	Comments
1		62	1	20	6	11	CB	Use text node supplied with cell	1		No. 7 Ames/ 240 Leroy	3	Straight	
2		39	23	17.5	4	8.75	LB		2		No. 6 Ames/ 200 Leroy	2	Slant	
GRAPHIC PARAMETERS														
Reference No.	<div></div>	LV/CO=	▲WT=	LC=	Comments									
1		1	1	0	1 LV/CO shall match the LV/CO of text placed for item									
2		38	3	0										
NOTE: The subdued background shown can be produced by an electrostatic plotter using a modified pen table or by using conventional layering methods with screens. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.								USER NOTES						
NOTE: For project related sheets, see standards: P-02.30; P-02.31; P-07.30; P-08.30; P-12.20														
NOTE: Do not use arrow heads to callout elevations														
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT SIZE WT - LINE WEIGHT LS - LINE SPACING TJ - TEXT JUSTIFICATION AC - ACTIVE CELL														
<div><div></div> - Text Reference Callout <div></div> - Graphic Reference Callout <div></div> - User Note Reference Callout</div> <div>▲ See Std P-00.60 Line Weight Table for Manual Construction. Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - 1"=100') using ADOT's Standard Working Units.</div>														
1			See Std P-00.70 for Title Block & Project Number Block Layout											
2			Show Pipe Slope in feet per foot to 4 decimal places											
3			See Std P-00.70 for Profile Sheet Overlay											
4			Show Elevations to 2 decimal places											
5			See Std P-00.61 for Leader Line Layout											
APPROVED FOR DISTRIBUTION										STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS				
SAMPLE STORM DRAIN PROFILE SHEET FOR URBANIZED AREA										DRAWING NO. P-13.20				

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	B-063-1-610	49	79	

095 YU 020



DESIGN	T. MACBETH	DATE	10-91
DRAWN	M. HAUER	DATE	11-91
CHECKED	R. DELANO	DATE	12-91
TEAM LEADER	J. BRUBAKER		
ROUTE	US 95	LOCATION	32nd ST - 26th ST (YUMA)

ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIGHWAY PLANS SERVICES
STORM DRAIN PROFILE SHEET Sta 1115+00 to 1121+00

SHEET 11 OF 11