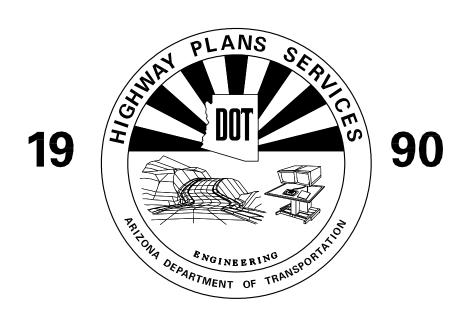
# STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION



## **DRAFTING GUIDES**

FOR USE IN

OFFICE AND FIELD

## **DRAFTING GUIDES**

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1	DEPARTMENT OF TRANSPORTATION
	DIVISION OF HIGHWAYS
	STANDARD DRAWINGS

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- 1-2.3 General Drafting Practices

#### -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)
- (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.

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STANDARD DRAWINGS

GENERALIZED NOTES

DRAWING NO.
P-00.10
Sheet 1 of 1



Acceleration Acres Aggregate Aggregate Base Ahead Alternate Aluminum American Association of State Highway and Transportation Officials American Concrete Institute American Institute of Steel Construction American Road and Transportation Builders Association  American Society for Testing Materials Amount Approach Approximate Asphalt Asphalt Rubber	ND†	B (cont) Bituminous	0.1	C (cont)	
Acceleration Acres Aggregate Aggregate Base Ahead Alternate Aluminum American Association of State Highway and Transportation Officials American Concrete Institute American Institute of Steel Construction American Road and Transportation Builders Association  American Society for Testing Materials Amount Approach Approximate Asphalt Asphalt Rubber	Acc	Bituminous	D* 1		
Acres Aggregate Aggregate Base Ahead Alternate Aluminum American Association of State Highway and Transportation Officials American Concrete Institute American Institute of Steel Construction American Road and Transportation Builders Association  American Society for Testing Materials Amount Approach Approximate Asphalt Asphalt Rubber			Bi+	Corrugated High Density Polyethylen	e Plastic Pipe CHDPEPP
Aggregate Base Alternate Aluminum American Association of State Highway and Transportation Officials American Concrete Institute American Institute of Steel Construction American Road and Transportation Builders Association  American Society for Testing Materials Amount Approach Approximate Asphalt Asphalt Rubber	16	Bituminous Mixture	BI† Mi×	Corrugated Steel Pipe	CSP
Aggregate Base Ahead Alternate Aluminum American Association of State Highway and Transportation Officials American Concrete Institute American Institute of Steel Construction American Road and Transportation Builders Association  American Society for Testing Materials Amount Approach Approximate Asphalt Asphalt Rubber	10	Bituminous Surface Treatment	BST	Corrugated Steel Pipe Arch	CSPA
Ahead Alternate Aluminum American Association of State Highway and Transportation Officials American Concrete Institute American Institute of Steel Construction American Road and Transportation Builders Association  American Society for Testing Materials Amount Approach Approximate Asphalt Asphalt Rubber	Ngg	Bituminous Treated Base	втв	County	Co
Alternate Aluminum American Association of State Highway and Transportation Officials American Concrete Institute American Institute of Steel Construction American Road and Transportation Builders Association  American Society for Testing Materials Amount Approach Approximate Asphalt Rubber  All Asphalt Rubber	AΒ	Black Steel Pipe	BSP	Crossing	X-ING
Aluminum  American Association of State Highway and Transportation Officials  American Concrete Institute  American Institute of Steel Construction  American Road and Transportation  Builders Association  American Society for Testing Materials  Amount  Approach  Approximate  Asphalt Rubber  All  Asphalt Rubber	AHD, Ahd	Borrow	Bor	Cross Section	X-SECT
American Association of State Highway and Transportation Officials  American Concrete Institute American Institute of Steel Construction  American Road and Transportation Builders Association  American Society for Testing Materials  Amount  Approach  Approximate  Asphalt Rubber  Asphalt Rubber	AI†	Boulevard	BLVD, BIVd	Crown	Cr
and Transportation Officials  American Concrete Institute  American Institute of Steel Construction  American Road and Transportation  Builders Association  American Society for Testing Materials  Amount  Approach  Approximate  Asphalt  Asphalt Rubber	AI .	Boundary	Bdry	Cubic	Cu
American Concrete Institute  American Institute of Steel Construction  American Road and Transportation  Builders Association  American Society for Testing Materials  Amount  Approach  Approximate  Asphalt  Asphalt Rubber	ASHTO	Brass Cap	ВС	Cubic Feet Per Second	CFS
American Institute of Steel Construction  American Road and Transportation  Builders Association  American Society for Testing Materials  Amount  Approach  Approximate  Asphalt  Asphalt Rubber		Breakaway Cable Terminal	ВСТ	Cubic Yard or Cubic Yards	CY, Cu Yd
American Road and Transportation  Builders Association  American Society for Testing Materials  Amount  Approach  Approximate  Asphalt  Asphalt Rubber	ACI	Bridge	Br	Culvert	Culv
Builders Association  American Society for Testing Materials  Amount  Approach  Approximate  Asphalt  Asphalt Rubber	NISC	Building	Bldg	Curb and Gutter	C&G
American Society for Testing Materials  Amount  Approach  Approximate  Asphalt  Asphalt Rubber	ARTBA	С		Curve to Spiral	cs
Amount A Approach A Approximate A Asphalt Rubber A		Calculated	Calc	D	
Amount A Approach A Approximate A Asphalt Rubber A		Cast-In-Place	C-I-P	Deceleration	DcI
Approach Approximate Asphalt Asphalt Rubber Asphalt	ASTM	Cast Iron	CI	Deflection	Def
Approximate A Asphalt A Asphalt Rubber A	.mt	Cast Iron Pipe	CIP	Deflection of Total Curve	I
Asphalt Rubber Al	lppr	Catch Basin	СВ	Degree of Curve	D
Asphalt Rubber	Approx	Cattle Guard	CG	Delineator	Del
·	sph	Cement	Cem	Delta	Δ
Asphalt Rubber ACFC A	AR .	Cement Treated Base	СТВ	Depressed Curb	DC
	ARACFC	Center	Ctr	Design Speed	Des Spd
Asphaltic Concrete A	AC .	Center Line	<b>E</b>	Detail	D+I
Asphaltic Concrete Base Al	ABC	Center to Center	C to C	Diameter	Dia
Asphaltic Concrete Friction Course A	ACFC	Channel	Chan	Distance	Dis†
Asphaltic Concrete Surface Course A	ACSC	Class	CI	Division	Div
Avenue	AVE, Ave	Clear	CIr	Double	DЫ
Average Daily Traffic	ADT	Column	Col	Drain or Drainage	Drn
В		Compact or Compaction	Comp	Drainage Area	DA
Back B	BK, Bk	Complete In Place	C in P	Drawing	Dwg
Back fill B	Bkfl	Concrete	Conc	Drive	Dr
Balance	Bal	Concrete Box Culvert	CBC	Driveway	Dwy
Bank Protection B	3P	Concrete Treated Base	СТВ	Ductile Iron Pipe	DIP
Barbed Wire B	Bank Prt	Connection	Conn	Ε	
Bearing B	3W	Conduit	Cond	Each	Ea
Begin B	Brg	Construct or Construction	Cst	Easement	Esmt
Begin Curb Return B	Bgn	Continous	Cont	Eas†	E
Begin Full Super	BCR	Coordinate	Coord	Eastbound	EB
Bench Mark B	BFS	Corner	Cor		
	ВМ	Correction	Corr		
В	Bev				

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DESCRIPTION OF REVEISION

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GENERAL ABBREVIATIONS

P-00.20 Sheet 1 of 3

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	мР
Elevation	Elev	Grubbing	Grb	Miles Per Hour	мРн
Embankment	Emb	Guard	Grd	Mineral Aggregate	МА
End Curb Return	ECR	Guard Rail	GR	Minimum	Min
End Full Superelevation	EFS	Guard Rail Extruder Terminal	GET	Miscellaneous	Misc
Engineer	Engr	н		Modify or Modified	Mod
Entrance	Ent	Headwall	Hdwl	Monument	Mon
Equation	EO, Eq	Height	Ht. H. h	Mountain	M†
Estimate	Est	Height of Instrument	н	N	
Excavation	Exc	Head Water	нw	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		1		Northbound	NB
Federal	Fed	Improvement	Impr	Number	No
Feet or Foot	F†	Inch or Inches	In	0	
Feet per Foot	<b>7</b> ft	include, included or inclusive	Incl	Obliterate	ОЫ
Feet Per Second	FPS	Inside Diameter	ID	Original	Orig
Figure	Fig	Invert	Inv	Outside Diameter	OD
Finish	Fin	Irrigation	Irr	Overhead	ОН
Floor	FI	J		Overpass	OP
Flow Line	FL	Joint	J†	Р	
Footing	F†g	Junction	Jc†	Parkway	Pkwy
Forest	Fst	L		Pavement	Pvmt
Found	Fnd	Laboratory	Lab	Pedestrian	Ped
Frame	Fr	Lateral	La†	Place	PI
Freeway	Fwy	Lef†	L†	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 <sub>c</sub>	Point of Curvature	PC
Future	Fut	Length of Spiral	Ls	Point of Intersection	PI
G		Length of Superelevation Runoff	L <sub>s</sub>	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	М		Point on Tangent	POT
Government	Gov't	Manhole	MH	Polyethylene	PE
Grade	Gr	Material	M†I		
Grade Seperation	GS	Maximum	Max		
		Median	Med		
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Median

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STANDARD DRAWINGS

GENERAL ABBREVIATIONS

P-00.20 Sheet 2 of 3

WORDS	ABBREVIATION	WORDS	ABBREVIATION	WORDS	ABBREVIATION	
P (cont)		S		T (cont)		
Polyvinyl Chloride	PVC	Salvage	Salv	Telephone	Tel	
Portland Cement Concrete	PCC	Section	Sct	Temporary	Temp	
Portland Cement Concrete Pavement	PCCP	Select Material	SM	Temporary Construction Easement	TCE	
Pounds	Lbs	Sheet	Sh	Timber	Tbr	
Pounds Per Square Inch	PSI	Shoulder	Shidr	Top of Curb	тс	
Preliminary	Prelim	Shrinkage	Shr	Topography	Торо	
Prestress, Prestressed or Prestressing	PS	Sidewalk	Swlk	Township	Т	
Project	Prj	Sight Distance-Stopping	SD <sub>S</sub>	Traffic Interchange	ті	
Property Line	P/L	Single	Sgl	Transition	Trns	
Proposed	Prop	Skew	Sk	Turning Point	TP	
Protection	Prt	South	S	Turnout	то	
Provision or Provide	Prv	Southbound	SB	Typical	Тур	
0		Special	SpcI	U	•	
0uadrant	0uad	Specification	Spec	Underground	Ugnd	
Quantity or Quantities	Quan	Spiral Rate of Change	a	Underpass	UP	
Quantity of Drainage Runoff	Q	Spiral To Curve	SC	<b>V</b>		
R		Spiral To Tangent	ST	Variable	Var	
Radius	R	Square	Sq	Vertical	Vert	
Railroad	RR	Square Feet	Sq Ft	Vertical Curve	VC	
Range	R	Square Yard	Sq Yd	Vertical Elliptical Reinforced	VERCP	
Reconstruct	Recst	Standard	Std	Concrete Pipe		
Reference	Ref	State Route	SR	Vertical Point of Intersection	VPI	
Reinforced or Reinforcing	Reinf	Station	Sta	Viaduc†	Via	
Reinforced Concrete	RC	Street	St	Vitrified Clay Pipe	VCP	
Reinforced Concrete Pipe	RCP	Structure or Structural	Str	Volume	Vol	
Reinforced Concrete Pipe Arch	RCPA	Subdivision	Subdiv	W		
Reinforcing Bar	Rebar	Subgrade	SG	Water	w	
Relocate, Relocation or Relocated	Reloc	Subgrade Seal	SS	Water Meter	WM	
Remove	Rem	Superelevation	e or Super	Water Valve	wv	
Required	Reqd	Surface	Surf	Welded Wire Fabric	WWF	
Reservation	Resv	Survey	Sur	Wes†	w	
Residence	Res	Swell	Sw	Westbound	wB	
Retain or Retaining	Ret	Symmetrical	Sym	Western Wood Products Association	WWPA	
Revised or Revision	Rev	•	•	Wide or Width	w	
Right	R†	Tangent	Tan	Wood	Wd	
Right of Way	R/W	Tangent Length	Т	Y		
Road	Rd	Tangent to Spiral	TS	Yard	Yd	
Roadway	Rdwy	Telegraph	TIg			
Route	Rte	•	-			
Rubber Gasket Reinforced Concrete Pipe	RGRCP					
						10/95
						107 33

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DRAWINGS DRAWING NO.
EVIATIONS P-00.

GENERAL ABBREVIATIONS

P-00.20 Sheet 3 of 3

	CONSTRUCTION DI	RAWING SYMBOLS		CONSTRUCTION D	RAWING SYMBOLS
	NEW FEATURES	EXISTING FEATURES		NEW FEATURES	EXISTING FEATURES
City Limits			Section Corner		<b>-</b>
County Line			Survey Control Point		
Forest or Reservation Boundry			Bench Mark		×
Property Line			Access Control		111111 111111 111111
Mid Section or Quarter Section Line			Sidewalk, Curb & Gutter w/Depressed Curb (I"=50' or larger)	30' DC	
Right of Way Line			Curb & Gutter with Depressed Curb (1"=100")	+25	=======================================
Section Line			Curb, Single with Depressed Area		===========
Sixteenth Line			Pavement and Sidewalk Edge		
National, State Boundry			Turnout	R	
Township or Range Line			Top of Cut	cc	
Temporary Construction Easement			Toe of Fill	FF	
Mile Post Marker	MP	△ MP	Transition, Cut to Fill	CF	
Right of Way Marker	•	$\oplus$	Railroad Track (l"=50' or larger)		<del></del>
Survey Monument	<b>(+)</b>	(+)	Railroad Track (1"=100")		
Angle Point or Pl	Δ		Bank Protection	XXXXXXXXXX	
Centerline, Station Marks			Bridge		
Quarter Corner		<b>-</b>	Building	Floor Elevation 1984.68'	Floor Elevation 1984.68
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			DISTRIBUTION	DEPARTMENT OF TRA DIVISION OF H STANDARD DR	ANSPORTATION IGHWAYS

SYMBOL LEGEND

P-00.30 Sheet 1 of 4

	CONSTRUCTION D	RAWING SYMBOLS		CONSTRUCTION D	RAWING 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 $(1$ "=50' or smaller) (Dia=42" and larger)		[]
Catch Basin, Off Roadway, Flush			Straight Hdwl w/End Sct, Pipe ( $1$ "=50' or smaller) (Dia=36" and smaller)	<del>                                   </del>	
Catch Basin, Single Curb	=======================================		"U" Hdwl w/End Sct, Pipe (l"=20') (All Dia)		e
Cattle Guard		:::::	"U" Hdwl w/End Sct, Pipe (l"=50' or smaller) (Dia=42" and larger) $\cdot$		c
Concrete Box Culvert		)}(	"U" Hdwl w/End Sct, Pipe (l"=50' or smaller) (Dia=36" and smaller) $\cdots$	]	
Dike, Median	_		Wing Hdwl w/End Sct, Pipe ( "=20') (All Dia)		,
Dike			Wing Hdwl w/End Sct, Pipe (l"=50' or smaller) (Dia=42" and larger)		() 
Downdrain, one way	35,	<sub>0</sub>	Wing Hdwl w/End Sct, Pipe (l"=50' or smaller) (Dia=36" and smaller)	)——	)
Downdrain, two way	5,145	,0,	"L" Hdwl w/End Sct, Pipe (I"=20') (All Dia)		(f====================================
Manhole	35.		"L" Hdwl w/End Sct, Pipe (l"=50' or smaller) (Dia=42" and larger)		[:::::::::::::::::::::::::::::::::::::
Manhole, Frame & Cover, Reset	<ul><li>●</li><li>★</li></ul>	(0)	"L" Hdwl w/End Sct, Pipe (l"=50' or smaller) $^{-}$	│	(
Retaining Wall		^	Pipe Ext W/End Sct & Berm (1"=20") (All Dia)		
Rock Riprap			Pipe Ext W/End Sct & Berm (1"=20') $\frac{(1"=50')}{(Dia=42")}$ and larger)		
Spillway, one way	2). 2).		Pipe Ext W/End Sct & Berm (1"=20") (1"=50" or smaller) (Dia=36" and smaller)		
Spillway, two way	+45 35' +4	· ; ,	Pipe Ext W/End Sct Roadway Widening (1=20)		
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<u> ইবিব্যব্</u>

SYMBOL LEGEND

P-00.30 Sheet 2 of 4

	CONSTRUCTION D	RAWING SYMBOLS		CONSTRUCTION [	DRAWING SYMBOLS
	NEW FEATURES	EXISTING FEATURES		NEW FEATURES	EXISTING FEATURES
Plan View, Bituminous Pavement			Irrigation Ditch, Concrete	=IR=====IR=====	=IR===================================
Plan View, Concrete Pavement			Irrigation Ditch, Earth	=RR	=IR
Plan View, Graded Surface			Irrigation Line (1"=20')	=RR	=IR <del></del> 1R ====
Plan View, Obliterate Pavement			Irrigation Line (1"=100')	-IR	—IR ———————————————————————————————————
Plan View, Wood	57777		Overhead Power/Joint Use Line	-0P	-OP
Section, Asphaltic Concrete Friction Course			Overhead Telephone Line	-отот	-ot
Section, Bituminous Pavement			Sanitary Sewer (I"=20')	=2 <u></u> 5	=s <u></u> s
Section, Concrete			Sanitary Sewer (I"=100')	ss	_ss
Section, Metal			Storm Drain ( "=20') & ( "=50')		=50====================================
Section, Wood			Storm Drain (1"=100')		-20
Section, Aggregate Base			Street Light and With Mast Arm	¤	
Section, Ground Line	- NAVANAN NAVANAN		Telephone/Power Pedestal	<b>■</b> T <b>■</b> P	□T □P
Ground Line Profile			Utility Pole with Down Guy and Anchor	● →	$\hspace{1cm} \hspace{1cm} \hspace{1cm}\hspace{1cm} \hspace{1cm} \hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}\hspace{1cm}$
Barbed Wire Fence & Gate			Underground Power/Joint Use Line	-P	_P
Chain Link Fence & Gate			Underground Telephone Line	-тт	-ı — ı — —
Guard Rail & Breakaway Cable Terminal	<b>S</b>	<i>9</i>	Water/Gas Meter Box	<b>⊟ ⊟</b> <u>₩</u> M <u>Ç</u> M	□ □ <u>₩</u> M <u>G</u> M
Gas Line	_cc	- G	Water/Gas Valve	₩V ÇV	₩V ĞV
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				DEPARTMENT OF TRA DIVISION OF H STANDARD DR	IIGHWAYS

SYMBOL LEGEND

P-00.30 Sheet 3 of 4

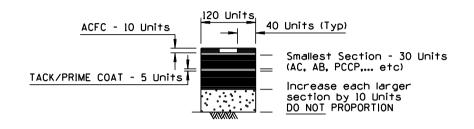
	CONSTRUCTION	DRAWING SYMBOLS		CONSTRUCTION	DRAWING SYMBOLS
	NEW FEATURES	EXISTING FEATURES		NEW FEATURES	EXISTING FEATURES
Water Line		_w	Block Wall (1"=20")		
Drainage Channel			Median Barrier		<b>→</b>
Drainage Ditch			Fire Hydrant	FH	FH
Major Wash		NAME -	Standpipe		O SP
Minor Wash			Transmission Tower		>
€ Grade, Profile			Windmill		Å
Hedge			Mail Box		
Palm Tree		and the same of th	Flag Pole		/ <sup>3</sup>
Shrubbery					
Unclassified Tree			North Arrow		
Sign, Single Post	•	d			
Sign, Multiple Post		d			
Dimensions					
Visible Outlines, Sections, etc					
Index Contour Line	8650-				
Intermediate Contour Line	8650	8650			
Depressed Index Contour Line					
Depressed Intermediate Contour Line		r			
			APPROVED DISTRIBUTI	FOR STATE OF A DEPARTMENT OF TR DIVISION OF F STANDARD DE	ANSPORTATION HIGHWAYS RAWINGS
				SYMBOL LEGEND	DRAWING NO.

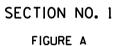
SYMBOL LEGEND

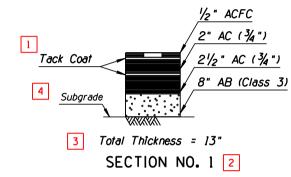
P-00.30 Sheet 4 of 4

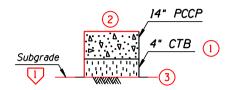
					CAE	DD TEX	T PARAMETERS	MANUAL TEXT PARAMETERS						
Reference No.	LV/CO=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style	Comments		
1	18	23	17.5	4	8.75	LB		1 3	No. 6 Ames/ 200 Leroy	2	Slant			
2	54	1	22	6	11	СВ		2	No. 7 Ames/ 240 Leroy	3	Straight			
3	18	23	17.5	3	8.75	СВ		4	No. 5 Ames/ 175 Leroy	0	Slant			
4	18	23	15	2	7.5	LB								
				1	GI	RAPHIC	PARAMETERS							
Reference No.	LV/CO=	▲ WT=		-			Comments							
	0	1 -	+	● LV	//C0 sh	all be 1	the same LV/CO as the text placed for the item							
2	17	3	0											
3	17	1	0											
											USE	ER NOTES		
								Reference No.				Comments		
								Ū	See Std P-	00.60 For Dim	ension And	d Leader Line Layout		
								· ·						
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT ! WT - LINE W LS - LINE S TJ - TEXT . AC - ACTIVE	SIZE EIGHT PACING JUSTIFICATIO	N .	<u></u> -	Graphic	ference Referend te Refer	ce Callou			•		D	PROVED FOR ISTRIBUTION  STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS  PAVEMENT STRUCTURAL SECTION LAYOUT & CONSTRUCTION  P-00.40 Sheet 1 of 2		

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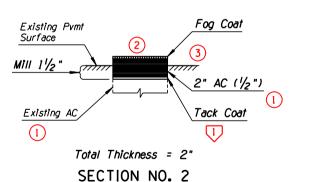


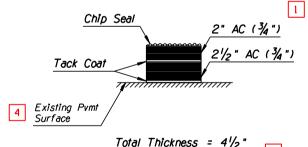


Total Thickness = 18" SECTION NO. 3

#### 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.





Total Thickness = 41/2" SECTION NO. 4

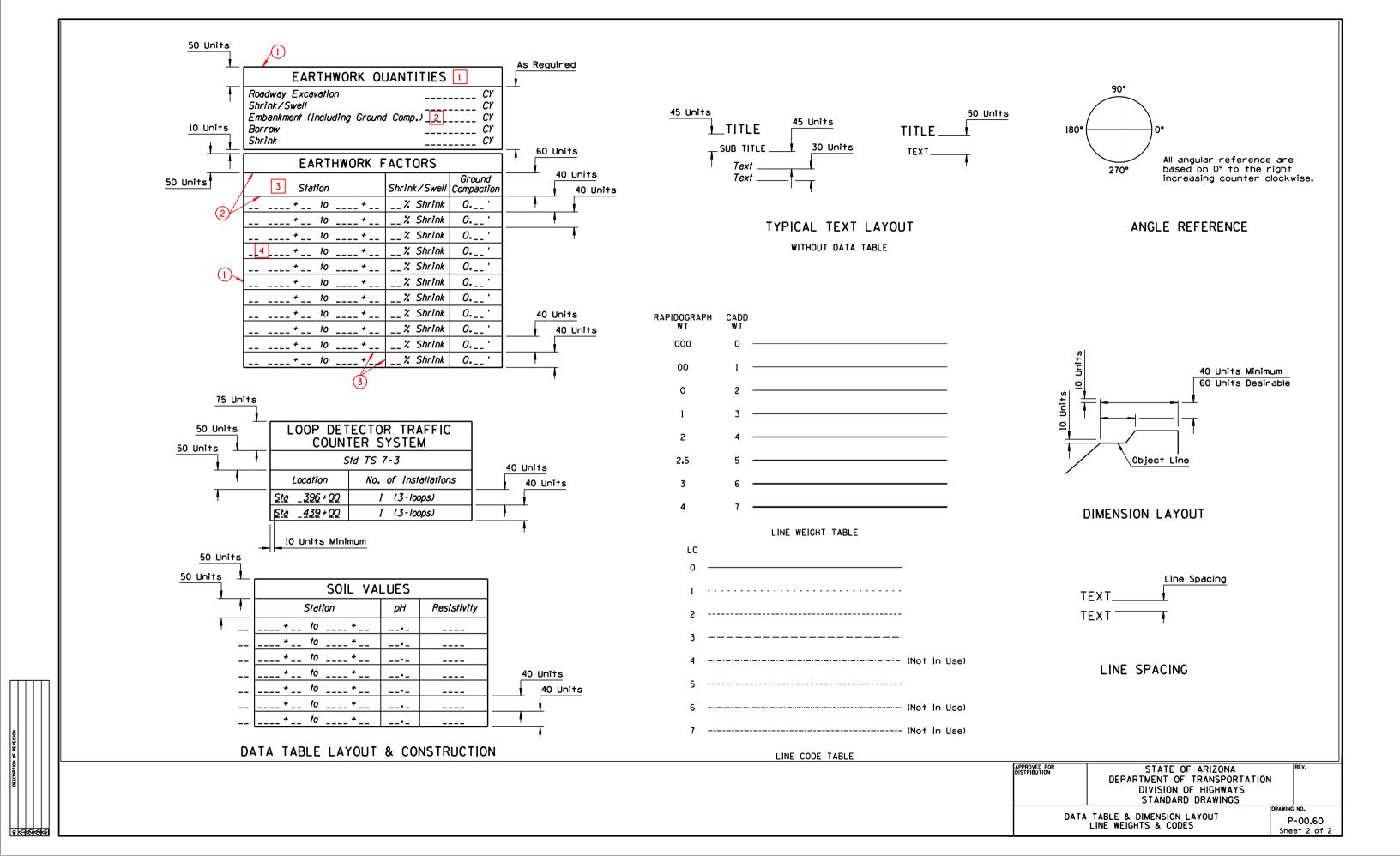
PAVEMENT STRUCTURAL SECTIONS 2

APPROVED FOR DISTRIBUTION STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS

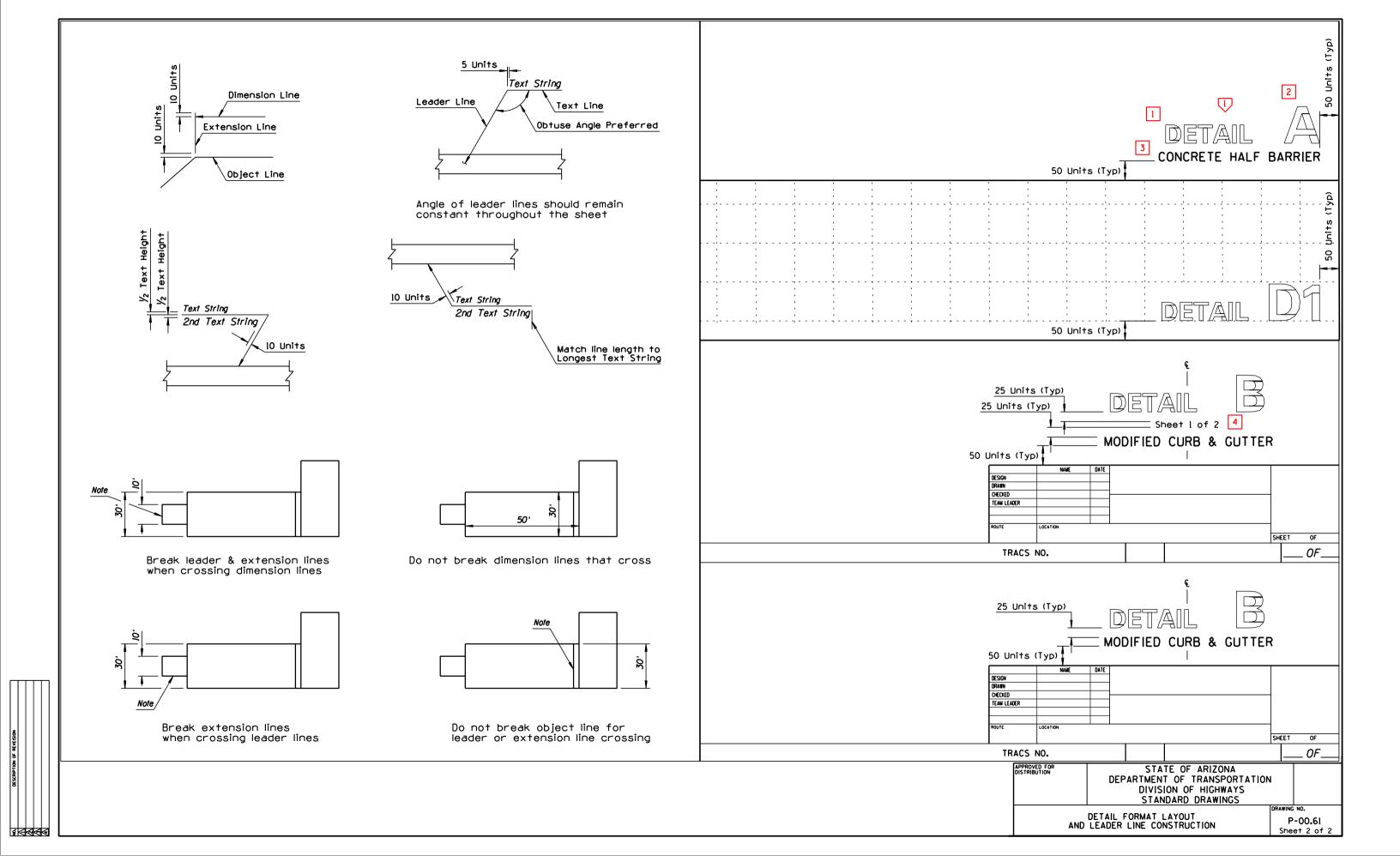
P-00.40

Sheet 2 of 2

					CAI	DD TEX	(T PARAMETERS	MANUAL TEXT PARAMETERS						_
Reference No.	LV/CO=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style		Comments	
1	58	1	22	6	11	СС		1	No. 7 Ames/ 240 Leroy	3	Straight	+		
2	58	23	17.5	4		СВ		2 3 4	No. 6 Ames/ 200 Leroy	2	Slant			
3	58	23	17.5	4	8.75	СВ								
4	58	23	17.5	4		СВ								
					G	RAPHIO	C PARAMETERS							
Reference No.	LV/C0=	▲ WT=	LC=				Comments	-						
1	57	5	0				Commont of the contract of the	1						
2	57	3	0					1						
3	57	2	0					1						
								1						
											US	ER NOTES		
								Reference No.				Comm	ents	
											1	APPROVED FOR	CTATE OF ADIZONA	REV.
bbreviations: LV - LEVEL CO - COLOI FT - FONT TX - TEXT WT - LINE LS - LINE	_/COLOR R SIZE WEIGHT		<u> </u>	Graphic	ference Referen te Refer	ice Callou	Units of measure for 'TX=' and 'LS='					APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS	
LS - LINE TJ - TEXT AC - ACTIV	JUSTIFICATION	N	~				are expressed in feet (scale - 1*=100') using ADOT's Standard Working Units.					DATA	TABLE & DIMENSION LAYOUT	P-00.60 Sheet 1 of 2



					CAI	DD TEX	T PARAMETERS	MANUAL TEXT PARAMETERS						
Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	Refere	nce No.	Text Size	Rapidograph Pen Size	Style	Comments	
1	54	30	50	0	-	LB	See user note *1		1	1"			■ Use Method as Required to Acheive Desired Results	
2	54	30	100	0	-	LB	See user note *1		2	<i>y</i> <sub>2</sub> "		Straight	■ Use Method as Required to Acheive Desired Results	
3	54	1	22	6	11	СВ			3	No 7 Ames/ 240 Leroy	3	Straight		
4	54	1	15	4	-	СВ			4	No 5 Ames/ 175 Leroy	2	Straight		
					C	RAPHI	: PARAMETERS							
Poforoso No.	LV/CO=	w	1.0-	1		KAPHIC	Comments							
Reference No.	LV/CU-	<b>▲</b> ₩ 1 =	LC-				Comments							
	•	•	•											
												USE	R NOTES	
								Refere	nce No.				Comments	
								l <b></b>	Ū,	For system	s which can r	not suppo	rt Intergraph's BITSTREAM CELL LIBRARIES, use the	
									•				Shade the block letters with lines using a weight	
										of 4 and s	paced at 2 ur	nits apart		
bbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT S WT - LINE SI LS - LINE SI TJ - TEXT J AC - ACTIVE	SIZE		<u> </u>	ſext Ref Graphic∣	Referen	ce Callou		•		•		Ā	PPROVED FOR STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
WT - LINE W LS - LINE SI	EIGHT PACING		□ - □	Jser Not	te Refer	ence Ca	Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using						STANDARD DRAWINGS  DETAIL FORMAT LAYOUT	
TJ - TEXT J AC - ACTIVE	JUSTIFICATIO E CELL	IN					are expressed in feet, (scale - 1*=100') using ADOT's Standard Working Units.						DETAIL FORMAT LAYOUT AND LEADER LINE CONSTRUCTION P-00.61 Sheet 1 of	



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

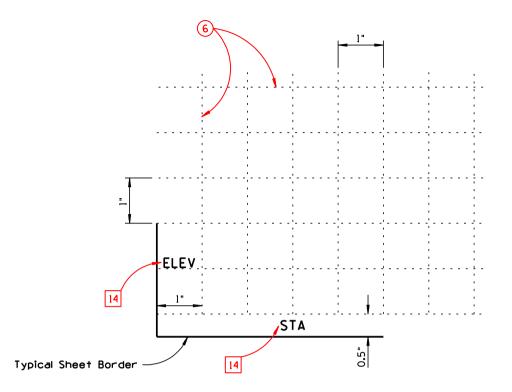
#### MANUAL TEXT PARAMETERS

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**

)	
- 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 'L' are expressed in feet, (scale - 1' ADOT's Standard Working Units.
	Graphic Reference Callout

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



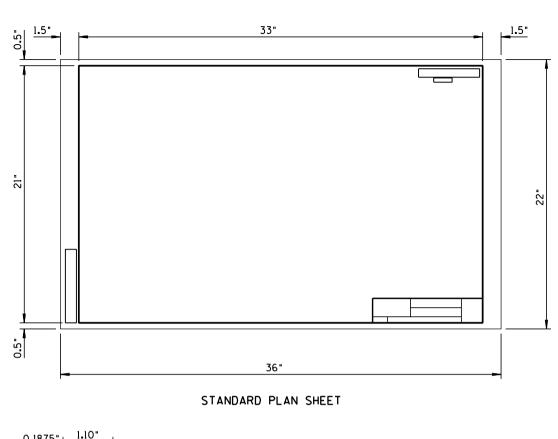
PROFILE SHEET OVERLAY 4

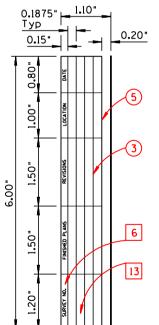
#### **USER NOTES**

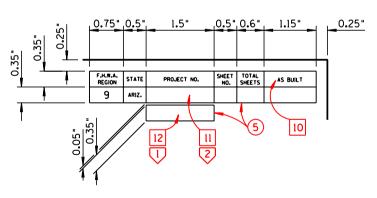
Reference No.	Comments
Ū	ADOT Prefix Number
2	When using cell, the project number may require reduction
3	Optional initial area
4	To place overlay, place origin at center of plan sheet
5	Registrant Seal
6	Sheet Description
7	County Number after job has gone to bid
8	Project Number after job has gone 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.

STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS

SHEET LAYOUT P-00.70 Sheet 1 of 2



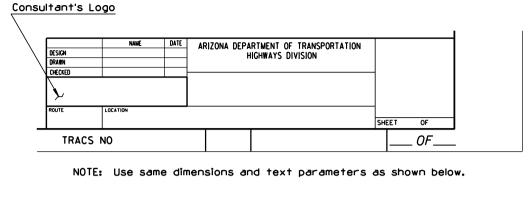




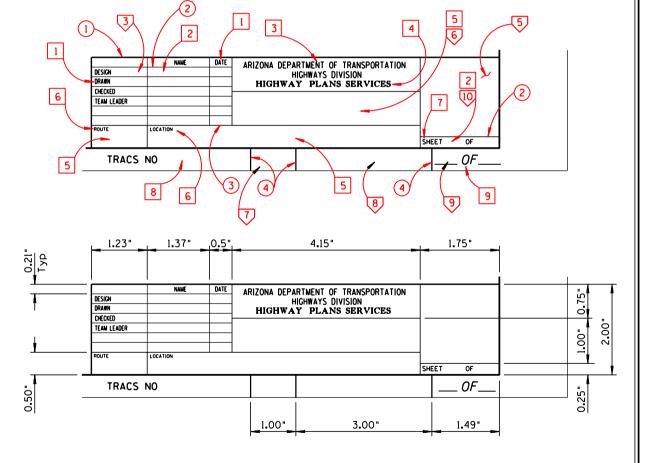
PROJECT NUMBER BLOCK LAYOUT
Upper Right Corner

REVISION & SURVEY BLOCK LAYOUT Lower Left Corner

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



CONSULTANT VERSION



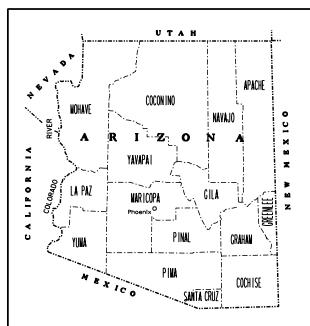
TITLE BLOCK LAYOUT Lower Right Corner

STATE VERSION

APPROVED FOR DISTRIBUTION	STATE OF ARIZO DEPARTMENT OF TRANS DIVISION OF HIGH STANDARD DRAWI	PORTATION WAYS		
			DRAWING	NO.
	SHEET LAYOUT		Р	-00.70
			Sha	a+ 2 af 2

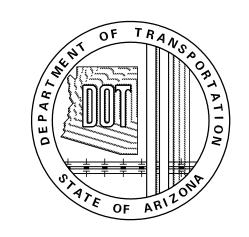
	CADD TEXT PARAMETERS					T PARAMETERS	MANUAL TEXT PARAMETERS								
Reference	No.	LV/CO=	FT=	TX=	<b>w</b> T =	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style	Comments		
									1	140 Leroy	1	Straight			
									-						
									-						
									1						
						G	RAPHIC	PARAMETERS							
Reference	No.	LV/CO=	▲ WT=	LC=				Comments	1						
									1						
									1						
									4						
												USE	ER NOTES		
									Reference No.				Comments		
									U U	Highway Pla	ans Control De	esk will cre	eate Face Sheet		
Abbreviations:	LV - LEVEL				Text Ref	erence	Callout	▲ See Std P-00.60 Line Weight	Ш			AI	PPROVED FOR STATE OF ARIZONA REV.		
	FT - FONT TX - TEXT	SIZE		<u></u> - 0	Graphic f	Referen	ce Callou						DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS		
Abbreviations:	LS - LINE TJ - TEXT AC - ACTIV	SPACING JUSTIFICATIO E CELL	ON	V - 1	user Not	re Refer	ence Call	lout Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units.				F	SAMPLE FACE SHEET P-01.10		

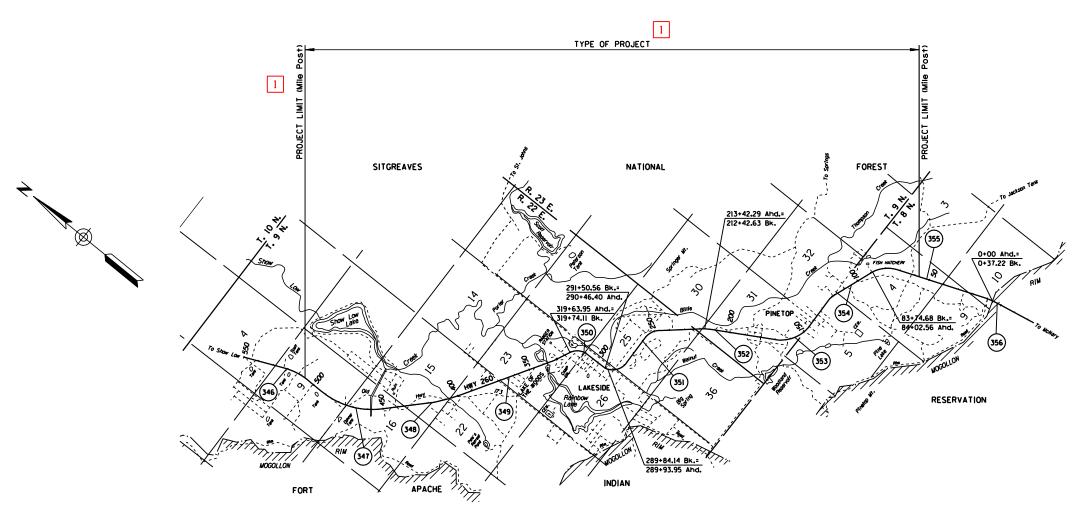
গ্ৰবৰৰ



## STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION

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





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

APPROVED DATE

ASSISTANT STATE ENGINEER

PROJECT LOCATION

	CADD TEXT PARAMETERS					T PARAMETERS	MANUAL TEXT PARAMETERS							
Reference No.	LV/CO=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style	Comments		
1	55	23	17.5	4	12.5	LB	TJ=LB unless shown otherwise	1 2	No. 6 Ames/ 200 Leroy	2	Slant			
2	55	23	17.5	4	8.75	LB	Line Spacing between notes shall be 17.5 units	3	No. 7 Ames/ 240 Leroy	3	Straight			
3	54	1	22	6	-	СВ		4	No. 6 Ames/ 200 Leroy	2	Straight			
4	55	1	17.5	4	-	СВ								
					-									
					G	RAPHIC	: PARAMETERS							
Reference No.	) LV/CO=	▲ wT=	LC=				Comments	-						
Me reir ernee Ne.	/ [ [ 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	<del>-</del> "''					Commonto	-						
								-						
											USE	ER NOTES		
								Reference No.				Comments		
								Ū	See Std P-	00.70 for Titl	le Block &	Project Number Block Layout		
								2	See Std P-	00.60 for Dat	ta Table La	ayout		
NOTE: For project P-02.15; P-0	t related 02.30; P-0	d sheet 6.10	ts, see	stand	lards:			3	See Std P-	00.60 for Tex	kt Layout			
						es								
NOTE: Design Dat Callouts ar	e to be	positio	ned as	shown	١.									
Abbreviations: LV - LEVE CO - COLO FT - FONT	L D			Text Ret	ference	Callou†	▲ See Std P-00.60 Line Weight Table for Manual Construction.	11	1		Ā	PPROVED FOR STATE OF ARIZONA	REV.	
TX - TEXT	SIZE		<u></u> -	Graphic	Referen	ce Callou	it					DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS		
WT - LINE LS - LINE	WEIGHT SPACING JUSTIFICATION	ON	▽ -	User No	te Refer	ence Cal	Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units.				 	STANDARD DRAWINGS SAMPLE DESIGN SHEET FOR RURAL	DRAWING NO.	
AC - ACTIV	/E CELL	OIN .					ADOT's Standard Working Units.					SAMPLE DESIGN SHEET FOR RURAL DIVIDED ROADWAY	P-02.10	

F.H.W.A. REGION STATE SHEET TOTAL NO. SHEETS PROJECT NO. 9 ARIZ. F-035-1(8) 2 190

087 GI 202

(3)

AS BUILT

DESIGN DATA

1990 ADT = 7.3502010 ADT = 14,350 Min Design Speed = 60 MPH

LENGTH OF PROJECT

**NORTHBOUND** 

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

Gross & Net Length = 25,794.85' - 4.89 Miles Mile Post 231.29 to 236.18

SOUTHBOUND

Sta 1442 + 00.00 to 1539 + 55.34 = 9.755.34' Sta 1540 + 03.52 And to 1627 + 68.35 Bk = 8,764.83' Sta 124 + 88.79 Ahd to 180 + 68.51 = 5,579.72'

FILL SLOPE EXCEPTION TABLE

Side

Left

Left

Left

Rìght

Both

Both

Right

Station

NB 1479 +50 to 1515 +25

NB 1537 +75 to 1542 +50

NB 162 + 50 to 164 + 25

SB 1445 + 50 to 1472 + 25

SB 1505 + 50 to 1525 + 75

SB 1525 + 75 to 1528 + 75

SB 150 + 25 to 175 + 25

Gross & Net Length = 24,099.89' - 4.56 Miles Mile Post 231.02 to 235.58

4:1

4:1

2:1

6:1

4:1

4:1 - 6:1

2

6:1 - C-02.10

Slope Control

2

(2)

EARTHWORK QUANTITIES Roadway Excavation 1.252.270 CY 9,871 CY Shrink Embankment (Including Ground Comp.) 1,185,625 CY Waste 56.774 CY

3 MIDPOINT OF PROJECT Central Zone

4 State Plane Coordinates

r = 1.090.000

X = 140.000

LOOP DETECTOR TRAFFIC

COUNTER SYSTEM

Std TS 7-3

Location

NB 1505 +55

SB 1506 +62

(2)

No. of Installations

1 (2-loops)

1 (2-loops)

		EΑ	RT	HWORK F	FACTORS	
		Stat	ion		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	<i>1598 + 55</i>	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 '

CUT SLOPE EXCEPTION TABLE Slope Control Station NB 1473 + 00 to 1479 + 50 Both 4:1 NB 1479 + 50 to 1515 + 25 Rìaht 6:1 (Daylight) NB 1537 +75 to 1542 +50 Rìght 4:1 NB 1586 + 25 to 1630 + 25 3:1 Both NB 133 + 50 to 162 + 36 Both 6:1 (Daylight) SB 1445 + 50 to 1472 + 25 3:1 Left SB 1485 + 75 to 1510 + 50 4:1 Both SB 1515 + 25 to 1530 + 25 Rìght 6:1 (Daylight) SB 1602 + 75 to 150 + 75 Right 4:1

SOIL VALUES										
Station	ρН	Resistivity	Station	ρН	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	<i>520</i>	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					

INDEX OF SHEETS

4 Sheet No. Sheet Type

Face Sheet IA-IB ADOT Standard Drawings Design Sheets 2-3 4 Barrier Summary Sheet New Pipe Summary Sheet 5-6 Pipe Ext Summary Sheet Box Culvert Summary Sheet Phase Construction Sequence 9-16 Detail Sheets 17-42 43-74 Culvert Detail Sheets 75 Geometric Layout Sheet 76-96 Plan & Profile Sheets 97-143 Traffic Sheets Structure Sheets 144-190

GENERAL NOTES

The roadway plans have been designed 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.

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

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

Survey Monuments in median shall not be disturbed.

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-035-1(9).

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

The average project elevation is 4,500'.

U

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

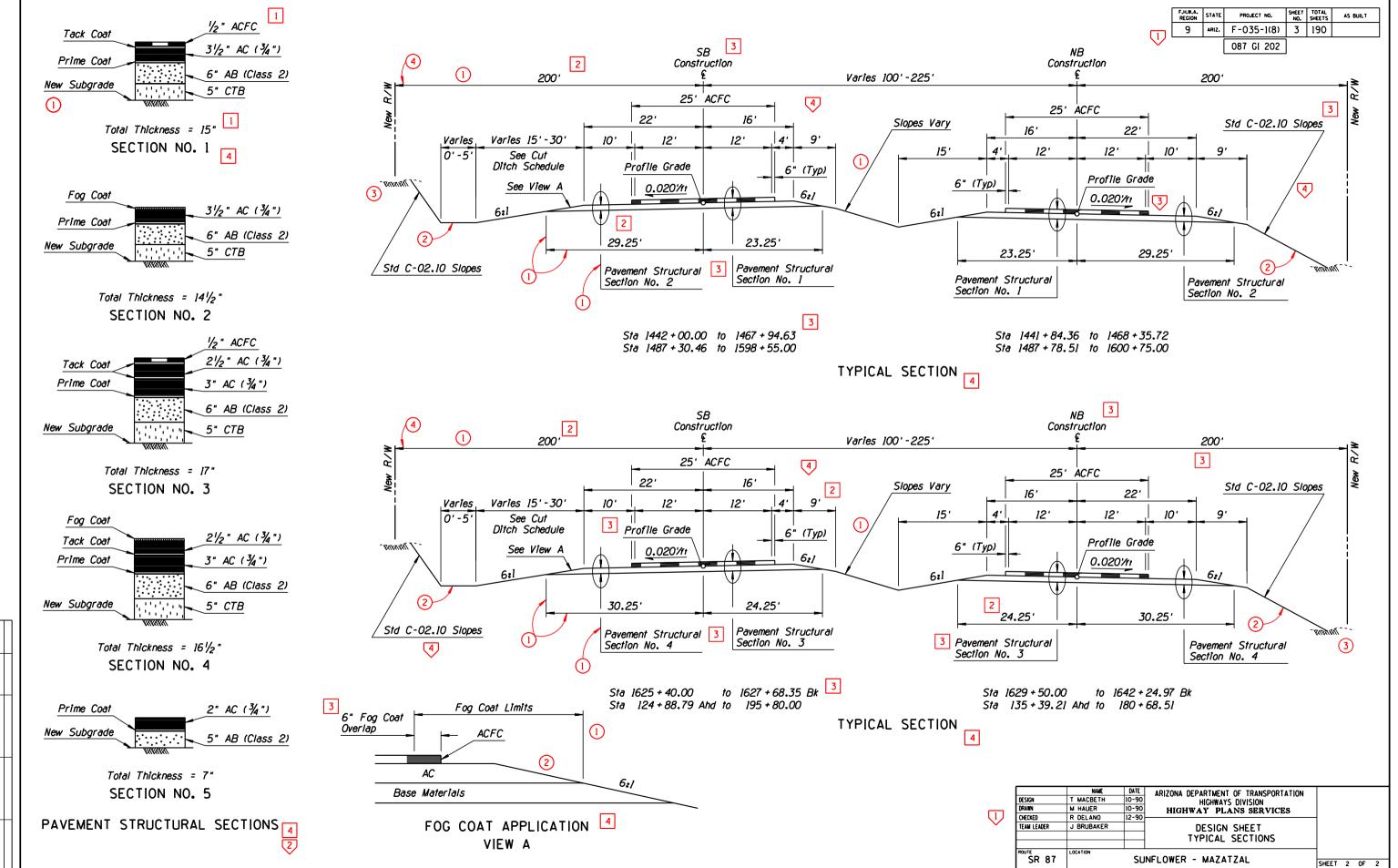
SHEET 1 OF 2

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VIEW NAME:

TRACS NO. HOOOO OL C

					CAI	DD TEX	(T PARAMETERS			ı	MANUAL TE	XT PARAMETERS
Reference No.	LV/CO=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style	Comments
1	18	23	17.5	4	8.75	LB		1 2 3	No. 6 Ames/ 200 Leroy	2	Slant	
2	25	23	17.5	4	8.75	СВ	TJ is CB unless otherwise shown	4	No. 7 Ames/ 240 Leroy	3	Straight	
3	21	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown					
4	54	1	22	6	11	СВ						
					G	RAPHIC	PARAMETERS					
Reference No.	LV/CO=	▲ WT=	LC=				Comments					
1	•	1	0	<b>●</b> LV.	/CO sha	all matc	ch the LV/CO of Text placed for item					
2	20	3	0									
3	59	1	5									
4	-	-	-	AD01	Stand	lard Lir	ne Terminator; typical					
											USE	ER NOTES
								Reference No.				Comments
									See Std P-	00.70 for Tit	le Block &	Project Number Block Layout
								2	See Std P-	00.40 for Pa	vement Str	uctural Section Layout & Construction
NOTE: For project P-02.10; P-0	t relate	d shee	ts, see	e stan	dards:			3				per foot to 3 Decimal Places
	· - <del></del>							4	See Stds P	-00.60 & P-00	0.61 for Dim	mension & Leader Line Layout
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT WT - LINE N LS - LINE S TJ - TEXT AC - ACTIVI	SIZE VEIGHT PACING JUSTIFICATIO	ON	<u></u> -	Graphic	ference Referen te Refer	ice Callou		<u> </u>			AF DI	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS  SAMPLE TYPICAL SECTION SHEET FOR RURAL DIVIDED ROADWAY  P-02.15



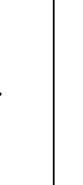
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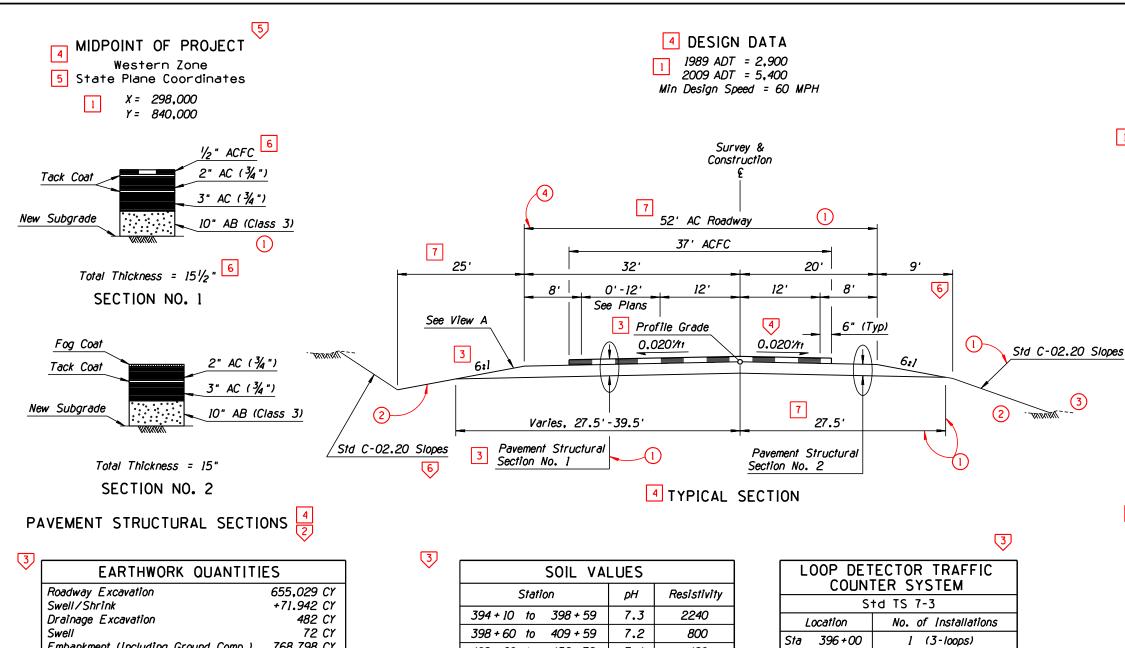
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TRACS NO. H0000 01 C

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	CADD TEXT PARAMETERS					T PARAMETERS	MANUAL TEXT PARAMETERS						
Reference No.	LV/CO=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style	Comments	
1	55	23	17.5	4	12.5	СВ	TJ is CB unless shown otherwise	1 2 3 6 7	No. 6 Ames/ 200 Leroy	2	Slant		
2	55	23	17.5	4	8.75	LB	LS between notes shall be 17.5 units	5	No. 6 Ames/ 200 Leroy	2	Straight		
3	21	23	17.5	4	8.75	СВ		4	No. 7 Ames/ 240 Leroy	3	Straight		
4	54	l	22	6	11	СВ							
5	55	1	17.5	4	12.5	СВ							
6	18	23	17.5	4	8.75	LB							
7	25	23	17.5	4	8.75	СВ							
Potorogas Na 🔎	Lwco-	<b>∆</b> w⊤	16-		G	RAPHIC	PARAMETERS	-					
Reference No.	LV/CO=	▲ W I =		<b>4</b> 177	′CO -b-		Comments	-					
<u> </u>	30	l	0	U LV/	CO SNA	matc	h the LV/CO of Text placed for item	-					
3	20 59	3	0 5					-					
<u> </u>	-	-	_	ADOT	Stand	ard Lic	ne Terminator	-					
								1					
								Reference No.	See Std P-		e Block &	ER NOTES  Comments  Project Number Block Layout ructural Section Layout & Construction	
								3		00.61 for Date		<u> </u>	
								4				et per foot to 3 Decimal Places	
NOTE: For projec	ot related	sheet	ts. see	stano	dards:			5		00.61 for Tex			
P-03.20; P-								6				nension & Leader Line Layout	
Abbreviations: LV - LEVEL CO - COLOF FT - FONT TX - TEXT WT - LINE LS - LINE :	SIZE WEIGHT		<u></u> - ·		Referen	Callout ce Callou rence Cal			1		[2] [1]	APPROVED FOR STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS  SAMPLE DESIGN SHEET FOR  P. O. 2.20	





EARTHWORK QUANTITIES									
Roadway Excavation	655,029 CY								
Swell/Shrink	+71.942 CY								
Drainage Excavation	482 CY								
Swell	72 CY								
Embankment (Including Ground Comp.)	768 <b>,</b> 798 CY								
Borrow	45,859 CY								
10% Shrink	4,586 CY								

E#	EARTHWORK FACTORS									
Sta	ation	Shrink/Swell	Ground Compaction							
395 + 00 to	o 400 + 99	Even	0.00 '							
401 + 00 to	o 403 + 00	Even	0 <b>.</b> 25 '							
403 + 00 to	0 406 + 00	15% Swell	0.25 '							
406 + 00 to	0 417 +00	5% Swell	0.25 '							
417 + 00 to	0 431 + 00	10% Swell	0.30 '							
431 + 00 to	0 440 + 00	15% Swell	0.15 '							
440 + 00 to	0 449 + 00	10% Swell	0.15 '							
449 + 00 to	o 459 + 00	10% Swell	0.25 '							
459 + 00 to	0 464 + 00	5% Shrink	0.25'							
464 + 00 to	0 480 + 00	10% Swell	0.25 '							
480 + 00 to	o 501 + 90	15% Swell	0.30'							

SOIL VALUES									
Station	ρН	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								
L	ocation	No. of Installations							
Sta	396+00	1 (3-loops)							
Sta	439+00	1 (3-loops)							

6" Fog Overlap	AC 2	
	Base Materials	
	FOG COAT APPLICATION 4 VIEW A	_

SHEET TOTAL NO. SHEETS PROJECT NO. AS BUILT 9 ARIZ. BP-063-2-310 2 63 095 LP 148

### 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

	J J
5 Sheet No.	Sheet Type
1	Face Sheet
1 <i>IA-1B</i>	ADOT Standard Drawings
<u> </u>	Design Sheets
6-7	Barrier Summary Sheets
8	New Pipe Summary Sheet
9	Box Culvert Summary Sheet
10-15	Detail Sheets
<i>16-2</i> 5	Culvert Detail Sheets
<i>26-28</i>	Construction Phasing Sequence
29-44	Plan & Profile Sheets
<i>4</i> 5-61	Traffic Sheets
<i>62-63</i>	Structure Sheets

#### 4 GENERAL NOTES

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'.

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION				
DESIGN	T MACBETH	10-90	HIGHWAYS DIVISION				
DRAWN	M HAUER	10-90	HIGHWAY PLANS SERVICES				
CHECKED	R DELANO	12-90		4			
TEAM LEADER	J BRUBAKER						
			DESIGN SHEET				
ROUTE US 95	LOCATION			-			
	(	osbori	N WASH - NORTH (UNIT   )	SHEET	_	OF	-

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TRACS NO. HOOOO OI C

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	CADD TEXT PARAMETERS	MANUAL TEXT PARAMETERS	
Reference No. LV/CO- FT- TX-	WT- LS- TJ- Comments		Comments
1 18 23 17.5	4 8.75 LB TJ is LB unless otherwise shown	1 4 5 7 9 No. 6 Ames/ 2 Slant	
2 18 23 15	2 7.5 LB	2 6 10 No. 5 Ames/ 0 Slant	
3 54 1 22	6 11 CB	No. 7 Ames/ 3 Straight	
4 25 23 17.5	4 8.75 CB	8 No. 6 Ames/ 2 Straight	
5 21 23 17.5	4 8.75 LB TJ is LB unless otherwise shown		
6 25 23 15	2 7.5 CB		
7 55 23 17.5	4 12.5 LB TJ is LB unless otherwise shown		
8 55 1 17.5	4 12.5 CB		
9 55 23 17.5	4 8.75 LB Line Spacing between notes shall be 17.5 units		
10 21 23 15	2 7.5 LB		
Reference No.   LV/CO-   A WT-   CO	GRAPHIC PARAMETERS		
Reference No. LV/CO- AWT- LC-	Comments		
1 0	● LV/CO shall match the LV/CO of Text placed for item		
2 59 1 5			
3 20 3 0 4	ADOT Standard Line Transicatory Trained		
$\odot$	ADOT Standard Line Terminator; Typical		
5 20 1 2			
NOTE: For project related sheets, see st	ndards:	USER NOTES  Reference No. Comments  1 See Std P-00.70 for Title Block & Project Number Block Layout 2 See Std P-00.40 for Pavement Structural Section Layout & Constru 3 See Stds P-00.60 & P-00.61 for Dimension and Leader Line Layout 4 See Std P-00.60 for Text Layout	
P-02.31; P-07.30; P-08.30; P-12.2			ATE OF ARIZONA REV.
	Ext Reference Callout  A See Std P-00.60 Line Weight Table for Manual Construction.	APPROVED FOR DISTRIBUTION DEPARTME	

MIDPOINT OF PROJECT 3 Western Zone State Plane Coordinates 8

> X = 220,0007 = 610,000

DESIGN DATA 3

1991 ADT = 19.000 2011 ADT = 30.000

Min Design Speed = 50 MPH

SHEET TOTAL NO. SHEETS PROJECT NO. AS BUILT 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

INDEX OF SHEETS 3

Sheet Type

ADOT Standard Drawings IA-IB 2-3 Design Sheets Pipe Summary Sheet 4-5 PSWP Summary Sheet Detail Sheets 7-21 22-37 Plan & Profile Sheets 38-56 Storm Drain Plan & Profile Sheets

PSWP Profile Sheets Driveway Profile Sheets

67-79 Traffic Sheets

GENERAL NOTES 3

The roadway plans have been utilizing 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.

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,

8 Sheet No. Face Sheet

> 57-59 60-66

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

4) see Drawing Series D-56 in the Roadway Design Guides for use in Office and Field - 1986.

<u> </u>	I	Varies. 39	' -45'	Varies, 39'-48'				
X T	1	<b>.</b>	52' R	oadway			, R/W	
New	5'	7'	19'	19'	7'	5'	New	
2 ROWNENT 3	5 6:1	0.02	Existing R	Sawcut Line  Exst Profile 10  Grade 5  oadway Varies 6		() (Sel)	.xVI	
Pavement Section I	Structui No. 1	ral 3	TYPICAL	SECTION 3	l' Paver Section	ment Structural on No. 1		

Sta 1079+00 to 1086+00 5

Survey & Construction 5

2" AC (1/2") Tack Coat 3" AC (3/4") 5" AB (Class 3)

REFERENCES

BP-063-1-503

S-53(1)

■ Slope Varies, Hold 1'

inside R/W

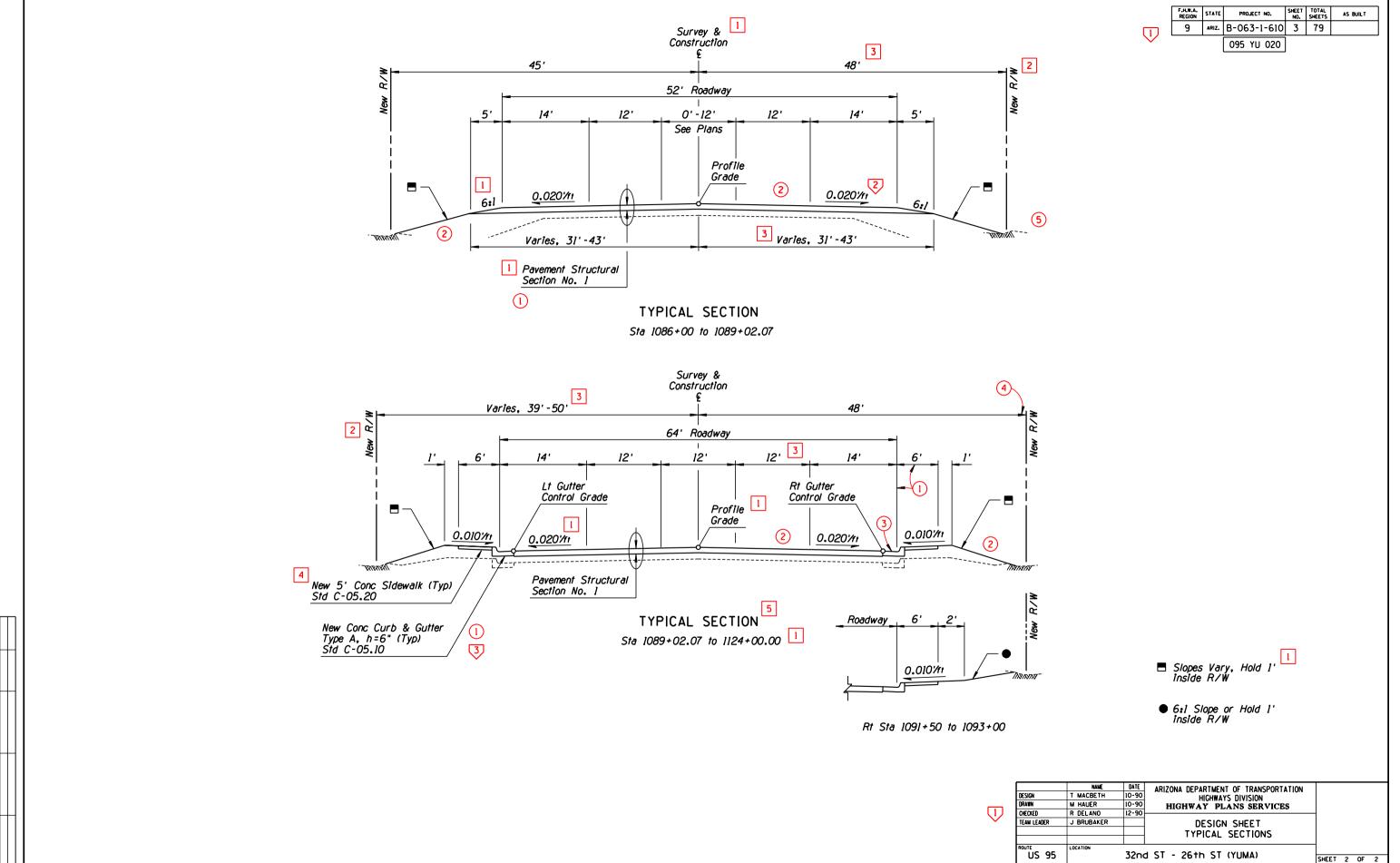
Total Thickness = 10" PAVEMENT STRUCTURAL SECTION NO. 1

U

ן	DESIGN DRAWN CHECKED	NAME T MACBETH M HAUER R DELANO	DATE 10-90 10-90 12-90	ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HIGHWAY PLANS SERVICES	-			
	ROUTE US 95	J BRUBAKER	3200	DESIGN SHEET				
	03 33		32110	3 31 ZOTTI 31 (TOWA)	SHEET	1	OF	2

P-02.30

					CA	DD TEX	T PARAMETERS	MANUAL TEXT PARAMETERS						
Reference No.	LV/CO=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style	Comments		
1	21	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown	1 2 3 4	No. 6 Ames/ 200 Leroy	2	Slant			
2	30	23	17.5	4	8.75	СВ		5	No. 7 Ames/ 240 Leroy	3	Straight			
3	25	23	17.5	4	8.75	СВ			•					
4	45	23	17.5	4	8.75	LB								
5	54	1	22	6	11	СВ								
					G	RAPHIC	PARAMETERS							
Reference No.	LV/CO=	<b>▲</b> W T =	LC=				Comments							
1	•	1	0	<b>⊕</b> LV/	/CO sha	all matc	h the LV/CO of Text placed for item							
2	20	3	0											
3	44	3	0											
4	-	-	-	ADOT	Stand	ard Lir	ne Terminator; Typical							
5	59	l	5											
									T		USE	R NOTES		
								Reference No. V				Comments		
												Project Number Block Layout		
								2				per foot to 3 decimal places		
NOTE: For pro	oject rek ; P-07.30;					ds:		3	See Stds P	-00.60 & P-00	.61 for Dim	nension and Leader Line Layout		
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT S WT - LINE W LS - LINE S TJ - TEXT S AC - ACTIVE	SIZE /EIGHT PACING	N	<u></u> -	Graphic	ference Referen te Refer	ce Callou		II	1		AP DIS	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS  SAMPLE TYPICAL SECTIONS FOR URBANIZED AREA  DRAWING NO. P-02.31		



TRACS NO. HOOOO OI C

VIEW NAME:

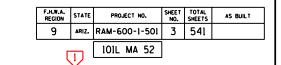
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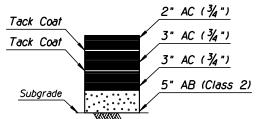
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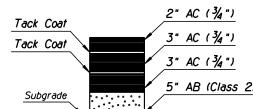
STD P-02.31

				CA	DD TEX	T PARAMETERS	MANUAL TEXT PARAMETERS						
Reference No. LV/C	)= FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograp Pen Size	h Style	Comments		
1 18	23	17.5	4	8.75	LB		1 3	No. 6 Ames/ 200 Leroy	2	Slant			
2 18	23	15	2	7.5	LB		2	No. 7 Ames/ 240 Leroy	3	Straight			
3 18	23	17.5	4	8.75	СВ		4	No. 5 Ames/ 175 Leroy	0	Slant			
4 54	1	22	6	11	СВ								
		_   _	T	G	RAPHIC	PARAMETERS							
	0= <b>A</b> W1	_				Comments							
	1	0	● LV/	'CO sha	all matc	h the LV/CO of Text placed for item							
										USE	ER NOTES		
							Reference No.				Comments		
							Ū	See Std P-	00.70 for Ti	tle Block &	Project Number Block Layout		
NOTE: For project relate		s, see	standaı	rds:			See Std P-00.40 for Pavement Structural Section Layout & Construction						
P-02.52; P-02.53; P-	U4 <b>.</b> IU						3	See Std P-	00.61 for Le	ader Line L	ayout		
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT SIZE WT - LINE WEIGHT LS - LINE SPACING		<u></u> -	Text Ret	Referer	ce Callou	Units of measure for 'TX=' and 'LS='				AF DI	PPROVED FOR STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS DRAWING NO.		
TJ - TEXT JUSTIFIC AC - ACTIVE CELL	ATION					are expressed in feet, (scale - 1*=100') using ADOT's Standard Working Units.					SAMPLE PAVEMENT STRUCTURAL SECTIONS FOR URBAN FREEWAY ROADWAY P-02.51		



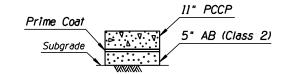






2" AC (3/4") Tack Coat 3" AC (¾") 6" AB (Class 2) Subgrade

Total Thickness = 11" SECTION NO. 5



13" PCCP

3" ACB (¾")

3" ACB (¾")

11" AB (Class 2)

3

Tack Coat

Fog Coat

Tack Coat

Subgrade

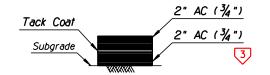
Total Thickness = 17" 3
SECTION NO. 1

Total Thickness = 17" SECTION NO. 2

2" ACB (End Product)

2" ACB (End Product)

Total Thickness = 16" SECTION NO. 3



Total Thickness = 4" SECTION NO. 6

PAVEMENT STRUCTURAL SECTIONS 2



	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION					
DESIGN	T MACBETH	10-90						
DRAWN	M HAUER	10-90						
CHECKED	R DELANO	12-90		ł				
TEAM LEADER	J BRUBAKER		DESIGN SHEET					
			TATEMENT STREET GRAE SECTIONS					
ROUTE	LOCATION							
SK IOIL		SHEET	2	OF	4			
	DRAWN CHECKED TEAM LEADER	DESIGN T MACBETH DRAWN M HAUER CHECKED R DELANO TEAM LEADER J BRUBAKER ROUTE LOCATION	DESIGN	DESIGN T MACBETH 10-90 DRAIN M HAUER 10-90 CHECKED R DELANO 12-90 TEAM LEADER J BRUBAKER  DESIGN SHEET PAVEMENT STRUCTURAL SECTIONS  ROUTE LOCATION	DESIGN T MACBETH 10-90  DRAIN M HAUER 10-90  CHECKED R DELANO 12-90  TEAM LEADER J BRUBAKER  PAVEMENT STRUCTURAL SECTIONS  ROUTE  S.D. 1011  DESIGN SHEET  PAVEMENT STRUCTURAL SECTIONS	DESIGN T MACBETH 10-90  DRAIN M HAUER 10-90  CHECKED R DELANO 12-90  TEAM LEADER J BRUBAKER  PAVEMENT STRUCTURAL SECTIONS  ROUTE  S.P. 1011  DESIGN SHEET  PAVEMENT STRUCTURAL SECTIONS	DESIGN T MACBETH 10-90 DRAIM M HAUER 10-90 CHECKED R DELANO 12-90 TEAM LEADER J BRUBAKER  PAVEMENT STRUCTURAL SECTIONS  ROUTE SP. 1011  PRICE FIRST ST BASELINE	

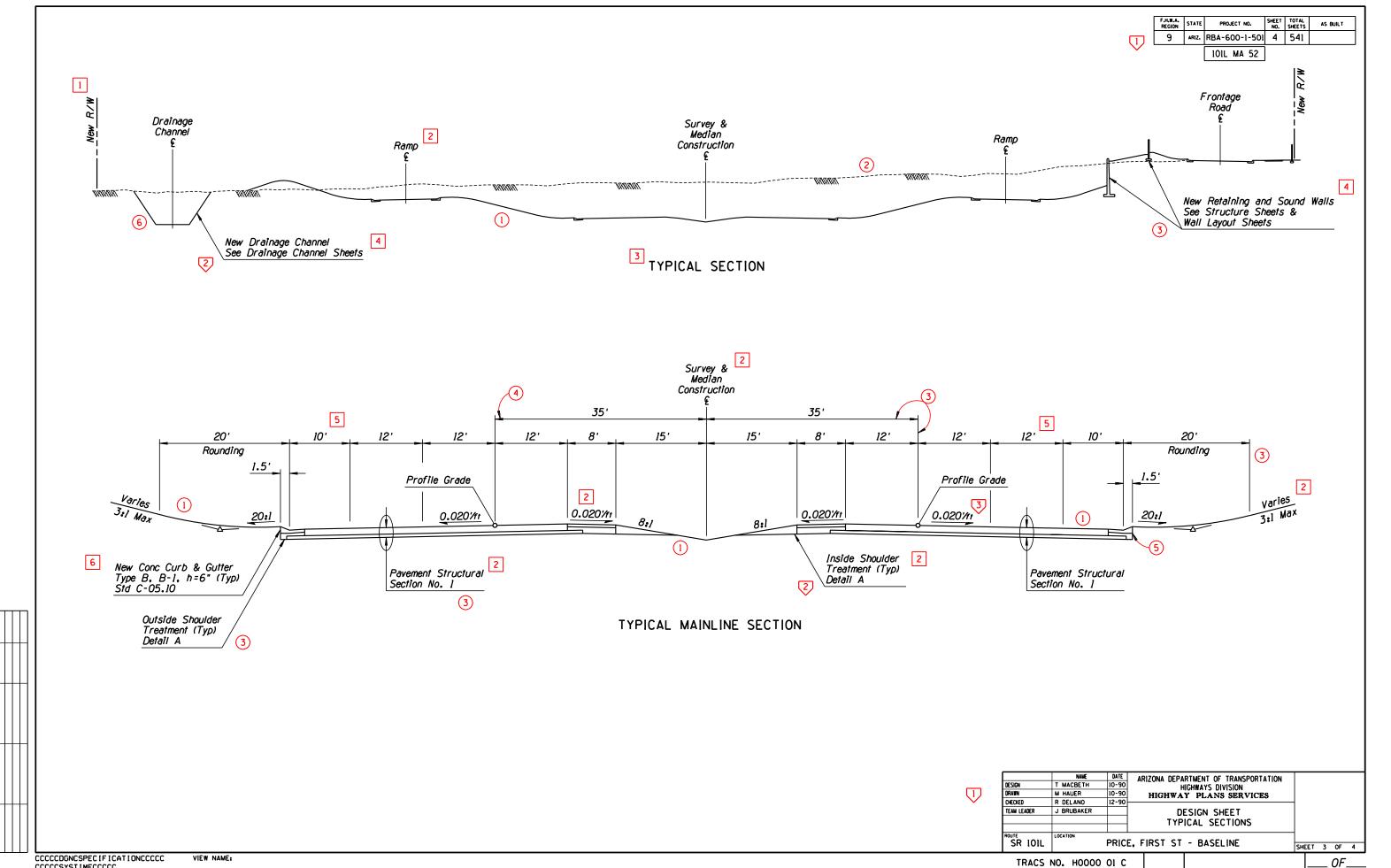
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TRACS NO. H0000 01 C

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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	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	l	22	6	11	СВ							
4	39	23	17.5	4	8.75	LB							
5	25	23	17.5	4	8.75	СВ							
6	45	23	17.5	4	8.75	LB							
			1		G	RAPHIC	PARAMETERS						
Reference No.	LV/CO=	_	_				Comments						
	20	3	0										
2	59	1	5	_									
3	•	1	0				th the LV/CO of Text placed for item						
4	-	-	-	ADOT	Stand	lard Lir	ne Terminator; Typical						
5	44	3	0										
6	38	3	0										
								Reference No. 🔽		00.70 for Titk		R NOTES  Comments  Project Number Block Layout	
NOTE. For project related sheets see standards.								See Std P-00.60 for Leader Line Layout					
NOTE: For project related sheets, see standards: P-02.51; P-02.53; P-04.10								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  A 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.							T .	II	1		AF Di	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS  SAMPLE TYPICAL SECTIONS FOR URBAN FREEWAY ROADWAY  ORAWING NO. P-02.52	

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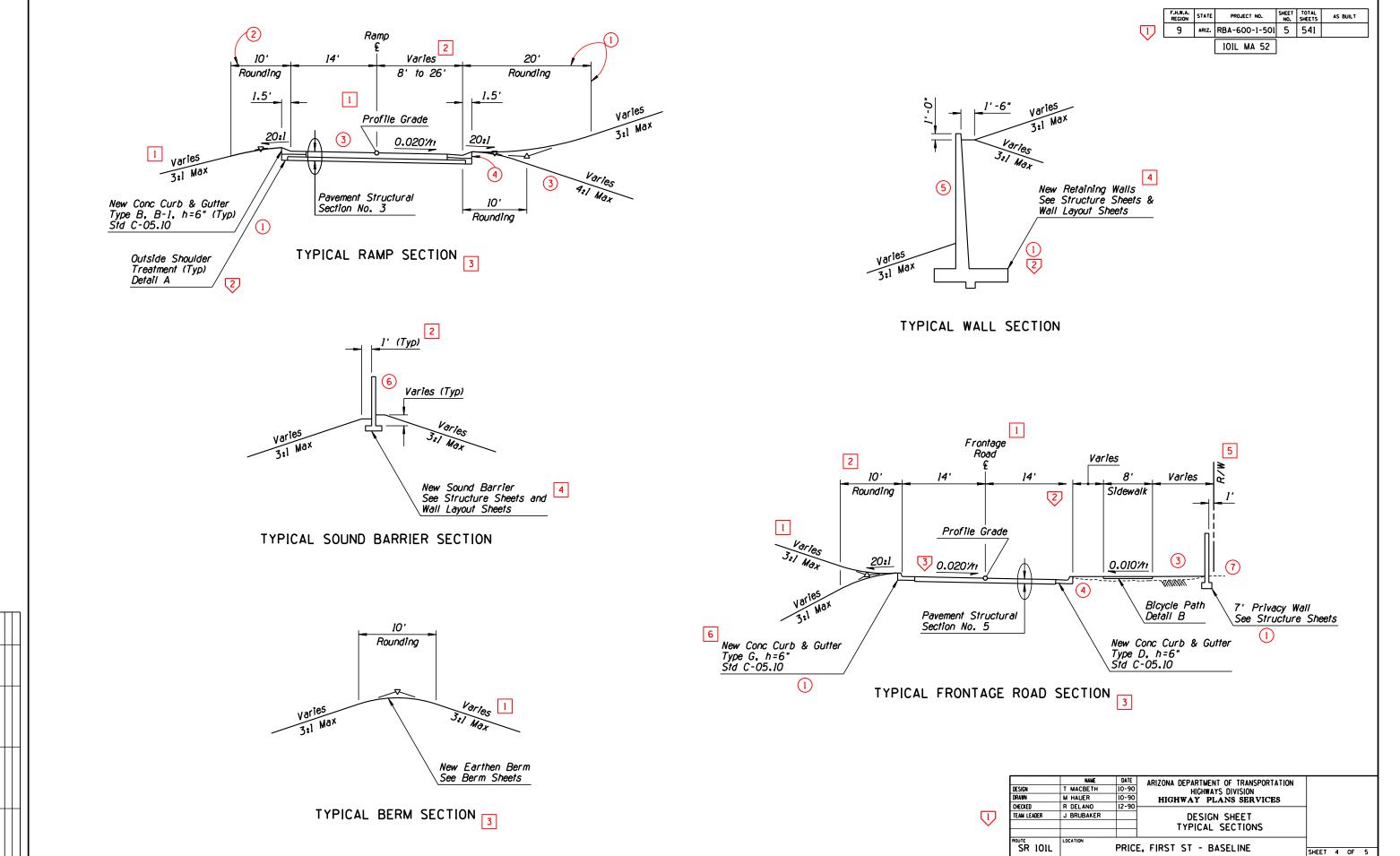
STD P-02.52

TRACS NO. H0000 01 C

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	21	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown	1 2 4 5 6	No. 6 Ames/ 200 Leroy	2	Slant				
2	25	23	17.5	4	8.75	СВ		3	No. 7 Ames/ 240 Leroy	3	Straight	+			
3	54	1	22	6	11	СВ									
4	39	23	17.5	4	8.75	LB									
5	30	23	17.5	4	8.75	RT									
6	45	23	17.5	4	8.75	LB									
					GF	RAPH	IC PARAMETERS								
Reference No.	LV/CO=	▲ WT=	LC=				Comments								
1	•	1	0	<b>●</b> LV/	CO sha	ıll mat	tch the LV/CO of Text placed for item								
2	-	-	-	ADOT	Stand	ard L	ine Terminator; Typical								
3	20	3	0												
4	45	3	0												
(5)	48	3	0												
6	42	3	0												
7	59	1	5												
								Reference No.	Т		USE	SER NOTES Comments			
					<u> </u>	See Std P-00.70 for Title Block & Porject Number Block Layout									
NOTE: For project related sheets, see standards: P-02.51; P-02.52; P-02.53; P-04.10									See Stds P-00.60 & P-00.61 for Dimemsion & Leader Line Layout						
								·	Show roadway cross slope in feet per foot to 3 decimal places						
									SHOW FORCE	7dy Ci 033 3i0	pe III 1661	r per 1001 10 3 decima places			
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT WT - LINE V LS - LINE S TJ - TEXT AC - ACTIVE	SIZE	)N	<u></u> -	Graphic (	ference Reference te Refer	ce Call	Table for Manual Construction.				A D	APPROVED FOR DISTRIBUTION  DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS  SAMPLE DESIGN SHEET FOR URBAN FREEWAY ROADWAY  DRAWING NO. P-02.53			

DESCRIPTION OF REVEISION

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TRACS NO. HOOOO OI C

VIEW NAME:

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SJAVET NO. FINISHED PLANS REVISIONS LOCATION DATE

OF\_

STD P-02.53

					CAI	DD TEX	T PARAMETERS				N	MANUAL T	EXT PARAMETERS
Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	Referen	nce No.	Text Size	1 611 3126	Style	Comments
1	58	1	15	4	45	СТ	TJ is CT unless otherwise shown		1	No. 5 Ames	/ 2	Straight	
	1									<b>'</b>	<b>'</b>		
					G	RAPHIC	PARAMETERS						
Reference No.	) LV/CO=	▲ WT:	LC=				Comments						
			L										
												US	ER NOTES
								Referen		7			Comments
									T .	See Std I	-00.70 for Tit	le Block &	Project Number Block Layout
									2	Use supp	ed Text Node		
NOTE: For project P-03.25; P-	ct relate	d shee	ts, see	stand	dards:								
r-03.25; P-	-U3.IU; P-(	J3.2U; F	05.30	r-01.2	:0								
Abbreviations: LV - LEVEL CO - COLOI FT - FONT	 L R			Text Ret	ference	Callout	▲ See Std P-00.60 Line Weight Table for Manual Construction.						APPROVED FOR STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION
FT - FONT TX - TEXT	SIZE		_			ce Callou							DIVISION OF HIGHWAYS STANDARD DRAWINGS
TX - TEXT WT - LINE LS - LINE	WEIGHT SPACING	ON	▽ -	User Not	te Refer	ence Cal	llout Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - l"=100') using ADOT's Standard Working Units.					}	DRAWING N
TJ - TEXT AC - ACTIV	JUSTIFICATI	UN					ADOT's Standard Working Units.						SAMPLE BARRIER SUMMARY SHEET P-0

																																				F.H.W.A. STATE  PREGION STATE  ARIZ.	PROJECT N BRS-355 089A YV	(41) 3 3	STAL AS BU
					T١	YPE	INSTA	ALLA	TION					В	ARRII TYPE	ER		TRE	END ATME	ENT		MISCE	LLA	NEOU:	s			TRA	NSIT	ΓΙΟΝ			A T U A	TEN- TOR	GL. SCF	ARE REEN		REMAR	RKS
	Beginning Station	, de la companya de l	4. / 6.6.	No. 100, 100, 100, 100, 100, 100, 100, 100	1000 (1000)	(1) 3+ Co	Construction Construction	Romove of the rest	Remove (Line See		(O)CO)ST. (O)()	Pomor C. BC7	100 00 00 00 00 00 00 00 00 00 00 00 00	(1)00,108/4 Poll (1)	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$\\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	END P	5,000 1100 1100 1100 1100 1100 1100 1100	7.1mber 7.56.17 8C.7.	£ 00 ( . 10 . 23	Ting of John Street	100 (C.10,23) 470,00 (V.10,24) (V.10,24) (V.10,24)	Timp 604 Aried	/5/	00,00,00,00,00,00,00,00,00,00,00,00,00,	Coch I'm on O'	Pecons (2, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	\$ 2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11/00/4 HOYF	/ * /				/ & /				
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-	240' L† 758+75	5						200				2						$\Box$																					
	R† 763+25	6	Α	650							2	х																											
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_ [	L† 782+00			450								X				Х		l					Х		1	1			1.20	-					<b>A</b>				
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																															US 8	39A	OCATION		NEW [	DRY CREE	K	-	SHEET 1

STD P-03.10

					CAI	DD TEX	T PARAMETERS			N	MANUAL TE	XT PARAMETERS
Reference No.	LV/CO=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style	Comments
1	58	1	15	4	45	СТ	TJ is CT unless otherwise shown	1	No. 5 Ames/ 175 Leroy	2	Straight	
								-				
					G	RAPHIC	PARAMETERS					
Reference No.	LV/CO=	▲ WT=	LC=				Comments	1				
											USE	R NOTES
								Reference No.				Comments
								U	See Std P-	00.70 for Titl	le Block &	Project Number Block Layout
								2	Use supplie	d Text Nodes	·	
NOTE: For project P-02.20; P-	t relate	d_shee	ts, see	stano	dards:							
P-02.20; P-	U3.30; P-(	J7.20; F	-08 <b>.</b> 20									
Abbreviations: LV - LEVEL CO - COLOF FT - FONT TX - TEXT WT - LINE LS - LINE TJ - TEXT AC - ACTIV	SIZE		<u></u> - (	Graphic		ice Callou					AF DI:	PROVED FOR STATE OF ARIZONA STRIBUTION  DEPARTMENT OF TRANSPORTATION  DIVISION OF HIGHWAYS  STANDARD DRAWINGS
WI - LINE LS - LINE TJ - TEXT AC - ACTIV	WEIGHT SPACING JUSTIFICATIO E CELL	ON	V - 1	User Not	te Refer	rence Cal	Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - l"=100') using ADOT's Standard Working Units.					SAMPLE NEW PIPE SUMMARY SHEET P-03.20

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OF\_

					CAE	DD TEX	T PARAMETERS			1	MANUAL TEXT PA	ARAMETERS
Reference No.	LV/C0=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style	Comments
1	58	1	15	4	45	СТ	TJ is Ct unless otherwise shown	1	No. 5 Ames/ 175 Leroy	2	Straight	
					GI	RAPHIC	PARAMETERS					
ference No. (		▲ wT=	1.0=	Ι			Comments					
er erice ito:	) [[7,00]	- W1-					Commercia					
											USER NO	TES
								Reference No.	)			Comments
								<u> </u>	See Std P-	00.70 for Tit	ile Block & Proje	ect Number Block Layout
TE: For proje								2	Use supplie	d text node:	5	
P-03.10; P	9-05.10; P-05	o.3U; P-	·U5.40;	r-u1.25	1							
												00
oreviations: LV - LEV CO - COL FT - FON TX - TEX	/EL LOR		_	ext Ref			▲ See Std P-00.60 Line Weight Table for Manual Construction.				APPROVED FO DISTRIBUTION	DEPARTMENT OF TRANSPORTATION
FT - FON TX - TEX WT - LIN	NI XT SIZE IE WEIGHT		_			ce Callou ence Cal	T					DIVISION OF HIGHWAYS STANDARD DRAWINGS
LS - LINI TJ - TEX AC - ACI	NT SIZE IE WEIGHT E SPACING KT JUSTIFICATIO TIVE CELL	)N	<b>~</b>	JJG: 1101	J	J.,56 Cdi	lout Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - l"=100') using ADOT's Standard Working Units					SAMPLE NEW CORRUGATED STEEL PIPE EXTENSION SUMMARY SHEET  DRAWING N P-0

SHEET TOTAL NO. SHEETS F.H.W.A. REGION STATE PROJECT NO. AS BUILT 9 ARIZ. BRS-355(41) 3 30 089A YV 384

**DESCRIPTION** CSP END TREATMENT QUANTITIES REMARKS End Section Std. C-13.25 Allowable \* Remove CB, MH & Jct Str Extend Headwall \z \ 1,000,000 of 5,000. Coating /ફે`, Exst. Pipe, (F t.) Correspond Pan Feight (\*\*) Grate (F † ") 00 (o)/oo/) હું # FF. (n) 1 18 18. 0 × 5 735+00 6 2<sup>2</sup>/<sub>3</sub>×<sup>1</sup>/<sub>2</sub> 0.064 X X X 40 44 8-11 24 70 See Culvert Detail Dl 775+13 2 5-8 2 20 18 2<sup>2</sup>/<sub>3</sub>×/<sub>2</sub> 0.064 X X X Rt Det B Lt 130 55 5 See Details A, B & Culvert Detail D5 24 66 Total

CSP - Corrugated Steel Pipe CAP - Corrugated Aluminum Pipe

> Reference numbers correspond to numbers in hexagons on PLAN SHEETS.

The Pipe Has Been Designed For A Fill Height Range As Indicated With The Fill Height Equal To Or Greater Than The Lower Number And Not Exceeding The Higher Number. Fill Heights Are The Maximum Measured From The Top Of Pipe To The Highest Point Of Subgrade Over The Pipe. Should Field Conditions Vary From The Range Indicated, Contact Design For Reevaluation Of Pipe Design Requirements.

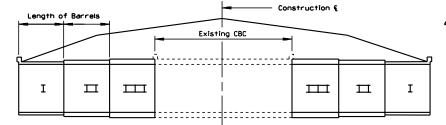
When Bituminous Coating is Specified For Either Structural Plate Pipe Or Corrugated Metal Pipe, It Shall Be Applied in Accordance With AASHTO M 243 Or AASHTO M 190, Type A, Respectively, And Coated On Both The Inside And The Outside Of The Pipe Unless Otherwise Specified In These Drawings.

NOTE: FOR PIPE CULVERT PLACEMENT SEE STANDARD DRAWING C-13.15 \* PIPE EXCAVATION & PIPE BACKFILL WIII Not Be Measured For Payment.

			DESCRIPTION	STANDARD			LEN	STH OF	BAR	REL E	XTENS	IONS				AP	PROXIMA <sup>-</sup>	TE QUA	NTITIE	ES		
STATION or MP	PLAN REF NO.	STR.	6135	STANDARD DRAWINGS REQUIRED		Le	ft of &	Δ			Rig	ht of &	<b>A</b>		Struct.	Class S fc=3000psi Concrete Cu. Yds.	Reinforcing	Structure	Remove	Place	Drainage	e Berm
or MP	BE	NO.	SIZE		I	□	ш	┰	<b>V</b>	<b>T</b>	┰	ш	□	I	Cu. Yds.	Concrete Cu. Yds.	Lbs.	Cu. Yds.	Cu. Yds.	Each	Cu. Yds.	. Cu. Yds
766+40	1	N/A	Extend Lt 10x5x24'-0" with Inlet Wings	B-01.10, B-02.20,	24'-0"										16	43	4,925	362	3	8		+
	-		Extend Rt 10x5x67'-0" with Outlet Wings	B-04.50 & B-04.70										67'-0"	43	100	12,470	1,009	3	8		
			See Culvert Detail D4																			
																						+
					1										1							+
	1			+											1							+
															+							+
				<u> </u>											1							+
Total															59	143	17,395	1,374	6	16		+

Reference numbers correspond to numbers in circles on PLAN SHEETS.

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			
DESIGN	T MACBETH	10-90	HIGHWAYS DIVISION			
DRAWN	M HAUER	10-90	HIGHWAY PLANS SERVICES			
CHECKED	R DELANO	12-90		4		
TEAM LEADER	J BRUBAKER		NEW CSP EXTENSION			
			CBC EXTENSION			
			SUMMARY SHEET			
ROUTE	LOCATION			1		
US 89A			NEW DRY CREEK	SHEET	1	OF

CCCCCDGNCSPEC IF ICAT IONCCCCC VIEW NAME: CCCCCSYSTIMECCCCC

TRACS NO. HOOOO OI C

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OF\_

STD

					C	ADD TEX	T PARAMETERS			N	MANUAL TE	EXT PARAMETERS
Reference No.	LV/CO=	FT=	TX=	wT=	LS=	= TJ=	Comments	Reference No.	Text Size	1 011 3120	Style	Comments
1	58	1	15	4	15	СТ	TJ is CT unless otherwise shown	1	No. 5 Ames/ 175 Leroy	2	Straight	
						CDABUIC	PARAMETERS					
	. 1		_			GRAPHIC		_				
Reference No.	LV/CO=	<b>▲</b> WT	= LC=				Comments	_				
								_				
			-									
								_				
								_				
											USI	ER NOTES
								Reference No.				Comments
								Ū	See Std P-	00.70 for Titl	le Block &	Project Number Block Layout
								2	Use supplie	d Text Nodes		
NOTE: For proje P-02.20; P	ect_relate	d shee	ets, see	e stanc	dards	S <b>:</b>						
P-02.20; P	'-03.20; P-	·U1.20;	P-08.20	1								
Abbreviations: LV - LEVE	EL OR			Text Ref	ferenc	ce Callout	▲ See Std P-00.60 Line Weight Table for Manual Construction.				- lâ	PPROVED FOR STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION
Abbreviations: LV - LEVE CO - COLO FT - FONT TX - TEXT	T SIZE		_			ence Callou						DIVISION OF HIGHWAYS STANDARD DRAWINGS
WT - LINE LS - LINE	: WEIGHT SPACING   JUSTIFICATI	ION	<b>V</b> -	User Not	te Ref	ference Ca	Units of measure for 'TX=' and 'LS=' are expressed in feet, (scale - l"=100') using ADOT's Standard Working Units.				ŀ	DRAWING
AC - ACTI	IVE CELL						ADUL'S STANDARD WORKING UNITS.					SAMPLE REINFORCED CONCRETE BOX CULVERT SUMMARY SHEET

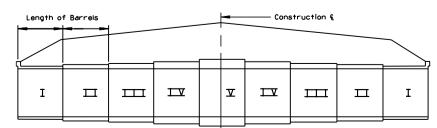
9 ARIZ. BP-063-2-310 9 63		F,H,W,A, REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
)	ī)	9	ARIZ.	BP-063-2-310	9	63	

095 LP 148

			RIPTION	CTANDADO				LEN(	STH OF	BARF	RELS					APPROXIN	MATE QUA	ANTITI	ES	REMARKS
STATION or MP	PLAN REF. NO.	STR. NO.	SIZE	STANDARD Drawings Reouired		Le	ft of E	<b>A</b>			Righ	ht of &	<b>A</b>		Struct.	Class S fc=3000psi Concrete Cu. Yds.	Reinforcing	Structure Back fill	Drainage	
or MP	<u> </u>	NO.	2175	NEOGINED	I	□	ш	≖	<b>T</b>	<b>T</b>	I	ш	□	I	Cu. Yds.	Concrete Cu. Yds.	Lbs.	Cu. Yds.	Cu. Yds.	
+60	1	N/A	10'x8'x180' w/Outlet Wing Lt &	B-02.10; B-04.20;	10		20		60	60		20		10	115	397	57,534	2,710		
	-		10'x8'x180' w/Outlet Wing Lt & Inlet Wing Rt	B-04.4													- •			
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-																				
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					+	1						-						1		
																		<u> </u>		
al						1	1						1	1				1		

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	
DESIGN	T MACBETH	10-90	•
DRAWN	M HAUER	10-90	
CHECKED	R DELANO	12-90	
TEAM LEADER	J BRUBAKER		
US 95	LOCATION	OSBOR	N
	DRAWN CHECKED TEAM LEADER ROUTE	DESIGN T MACBETH DRAWN M HAUER CHECKED R DELANO TEAM LEADER J BRUBAKER ROUTE LOCATION	DESIGN

ARIZONA DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HIGHWAY PLANS SERVICES REINFORCED CONCRETE BOX CULVERT SUMMARY SHEET

WASH - NORTH (UNIT II)

CCCCCDGNCSPECIFICATIONCCCCC CCCCCSYSTIMECCCCC VIEW NAME:

TRACS NO. H0000 01 C

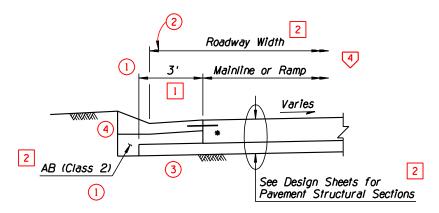
\_OF\_\_\_

SHEET 1 OF 1

STD P-03.30

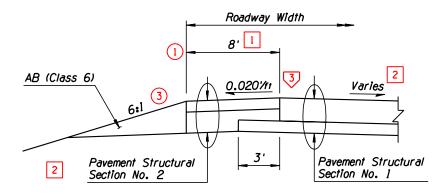
					CA	DD TEX	CT PARAMETERS			M	IANUAL TE	XT PARAMETERS
Reference No.	LV/CO=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	I FEII SIZE	Style	Comments
1	25	23	17.5	4	8.75	СВ		1 2 4 5 6	No. 6 Ames 200 Leroy	′ _	Slant	
2	21	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown	3	No. 6 Ames 200 Leroy	' <sub>2</sub>	Straight	
3	54	1	22	6	11	СВ						
4	33	23	17.5	4	8.75	LB						
5	28	23	17.5	4	8.75	LB						
6	55	23	17.5	4	8.75	LB	LS between notes shall be 17.5 units					
					G	RAPHI(	PARAMETERS					
Reference No.	LV/CO=	▲ WT=	LC=				Comments					
	•	1	0	<b>⊕</b> LV	/CO sha	ıll mato	ch the LV/CO of Text placed for item					
2	-	-	-	ADOT	Stand	ard Li	ne Terminator; Typical					
3	20	3	0									
4	44	3	0									
5	63	7	0									
6	42	3	0									
	42	1	2									
											USE	R NOTES
								Reference No.				Comments
												Project Number Block Layout
NOTE: For project			s, see	stanc	lards:			2		-00.61 for Deta		
P-02.51; P-0	2.52; P-02	2.53						3				per foot to 3 decimal places
								4	See Stds F	P-00.60 & P-00	.61 for Dim	mension & Leader Line Layout
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT WT - LINE N LS - LINE S TJ - TEXT AC - ACTIVI	SIZE VEIGHT PACING	)N	<u> </u>	Graphic	ference Referen te Refer	ce Callo		1	I		AF DI	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS  SAMPLE DETAIL SHEET FOR SHOULDER TREATMENT & ALTERNATE FOOTINGS  REV.  REV.  P-04.10





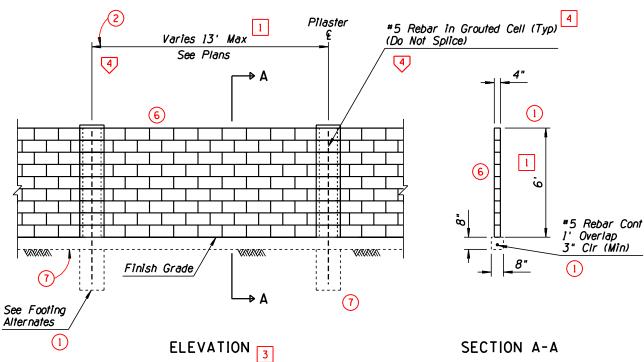
\* \*5 Bars x 2'-0" Long @ 5'-0" C to C Max @ Mid Depth of Gutter

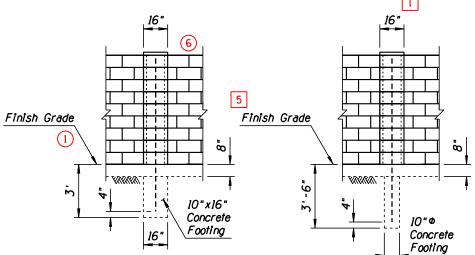
OUTSIDE SHOULDER TREATMENT



INSIDE SHOULDER TREATMENT 3







## NOTES

Concrete shall be placed against undisturbed soil.

Tongue & Groove Panel Blocks do not require mortared head joints. Mortared head joints shall be required for standard Panel Blocks.

All concrete shall be Class B. Reinforcing Steel shall be in accordance with ASTM A-615. Grade 40.

Masonry units shall be in accordance with ASTM C-90, Grade N Type 1  $f'_{m} = 1.350 PSI$ .

Mortar shall be in accordance with ASTM C-270, Type 'S'.

Grout shall be in accordance with ASTM C-476,  $f'_{c} = 2,000 PSI$ .

FOOTING ALTERNATE NO. 1

FOOTING ALTERNATE NO. 2

## **② DETAIL**

PRIVACY WALL FOOTING ALTERNATES

		NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION				
	DESIGN	T MACBETH	10-90	HIGHWAYS DIVISION				
	DRAWN	M HAUER	10-90	HIGHWAY PLANS SERVICES				
$\langle \mathcal{V} \rangle$	CHECKED	R DELANO	12-90	Indiana i band objetiebo	4			
•	TEAM LEADER	J BRUBAKER		DETAIL SHEET				
				DETAILS A & B				
				DETAILS A & D				
	ROUTE	LOCATION			1			
	SR 101L		PRIC	E, FIRST ST - BASELINE	SHEET		OF	10
	l				3	<u></u>	<u>.,</u>	<u></u>



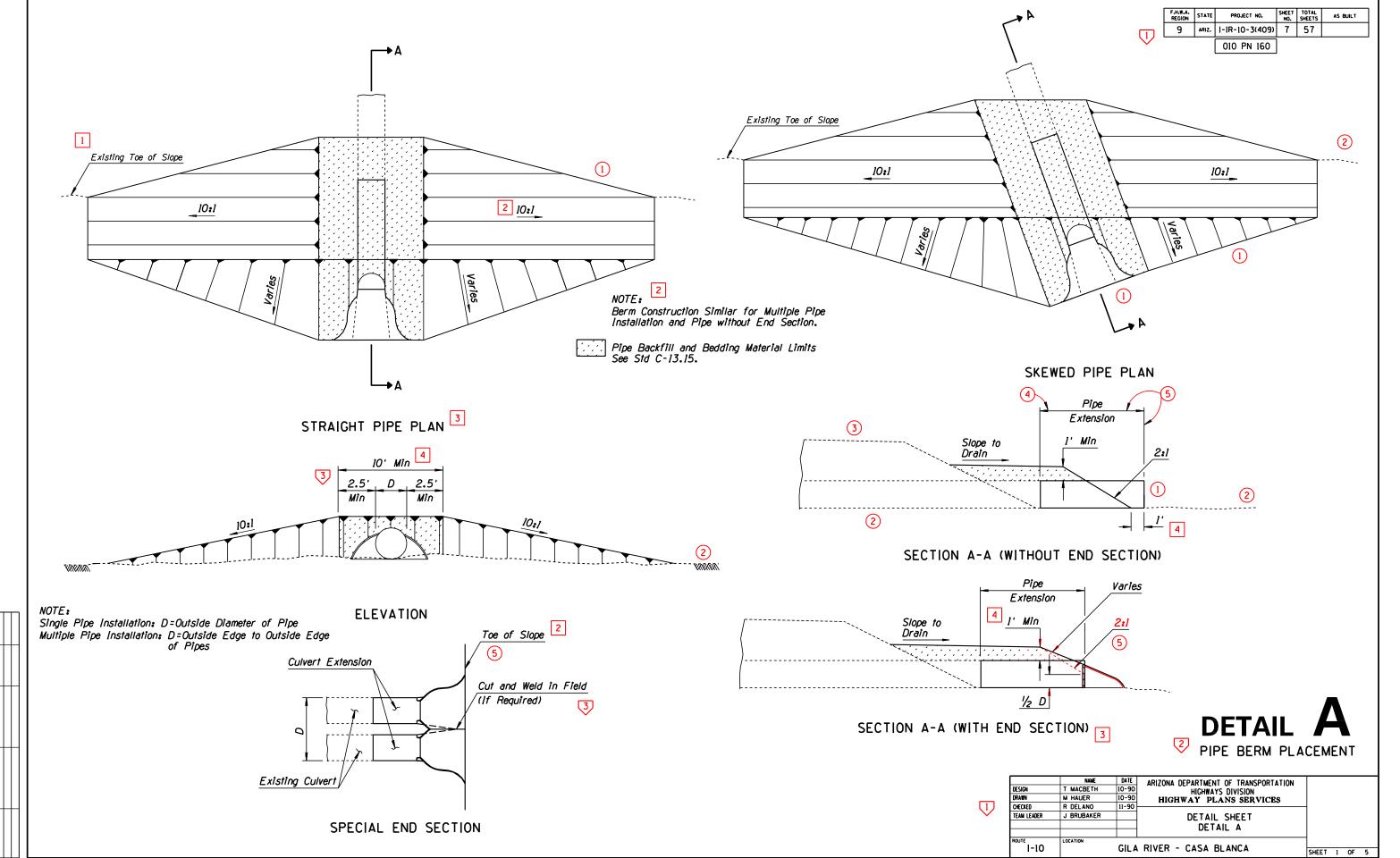
SHOULDER PAVEMENT TREATMENTS

CCCCCDGNCSPECIFICATIONCCCCC VIEW NAME:

TRACS NO. HOOOO OI C

P-04.10 STD

					CAI	DD TEX	T PARAMETERS			ı	MANUAL TI	EXT PARAMETERS
Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments	Reference No.	Text Siz	Rapidograph Pen Size	Style	Comments
1	14	23	15	2	7.5	LB		1	No. 5 Ame 175 Lero	0	Slant	
2	39	23	17.5	4	8.75	LB		2 4	No. 6 Ame	5/ y 2	Slant	
3	54	1	22	6	11	СВ		3	No. 7 Ame 240 Lero	5/  ,	Straight	
4	25	23	17.5	4	8.75	СВ						
					G	RAPHIC	PARAMETERS					
Reference No.	LV/CO=	▲ WT=	LC=				Comments					
1	38	3	0									
2	59	1	5					_				
3	20	1	2									
4	-	-	-	+			ne Terminator: Typical	1				
5	•	1	0	<b>⊕</b> LV/	/CO sha	all matc	h the LV/CO of Text placed for item	4				
				-				4				
								4				
								_				
											USI	ER NOTES
								Reference No.	$\Box$			Comments
								Ū	See Std	P-00.70 for Tit	rle Block &	Project Block Layout
								2	See Std	P-00.61 for Det	tail Format	Layout
								3	See Std	P-00.60 & P-00.	.61 for Dim	ension & Leader Line Layout
Abbreviations: LV - LEVEL CO - COLOF FT - FONT TX - TEXT WT - LINE S	SIZE		<u> </u>	Graphic		Callout nce Callou rence Cal	Units of measure for 'TX=' and 'LS='		1		E C	APPROVED FOR STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS
WT - LINE V LS - LINE S TJ - TEXT AC - ACTIV	JUSTIFICATIO E CELL	N	•				are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units.					SAMPLE DETAIL SHEET FOR P-04.20



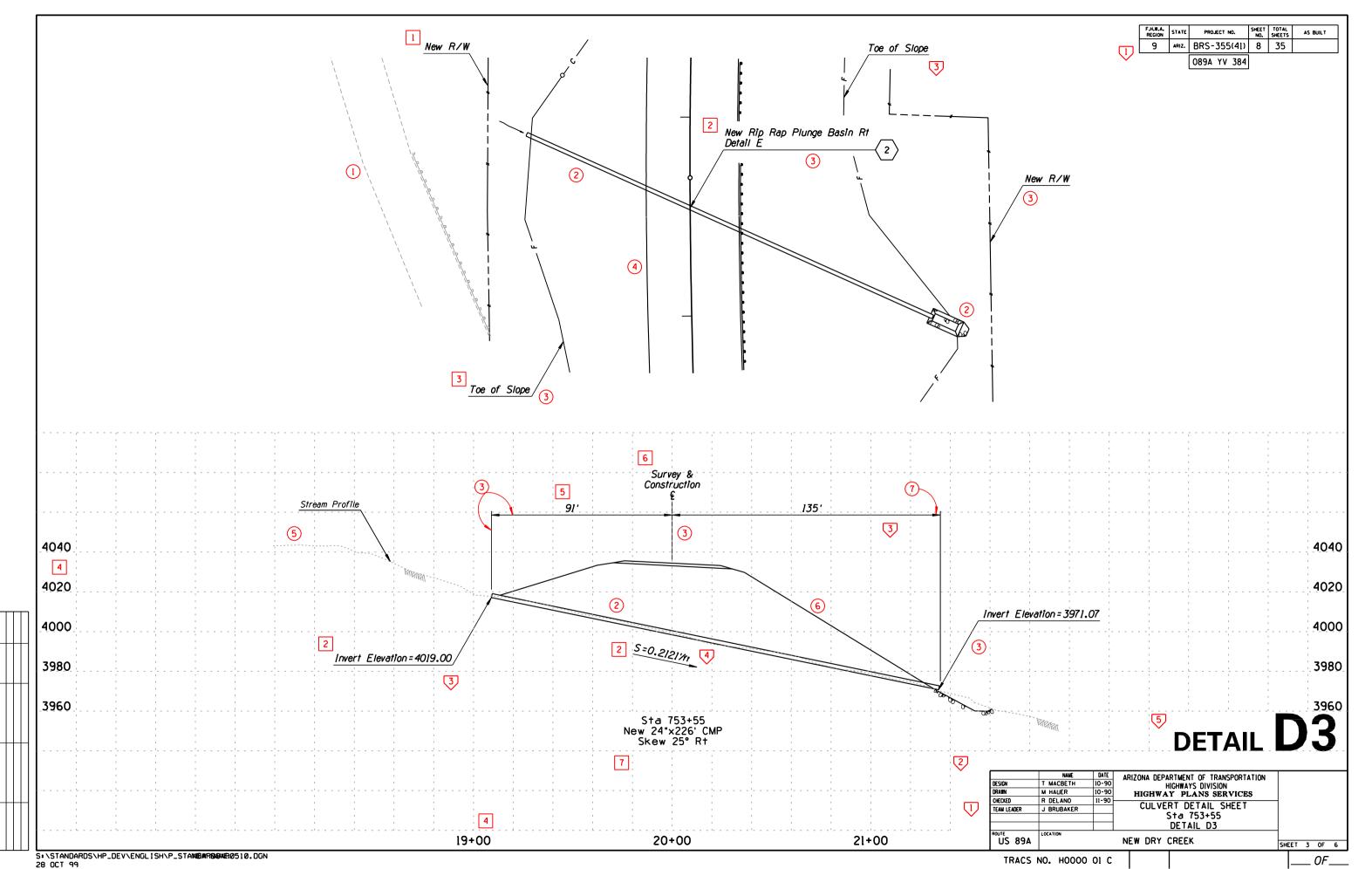
STD P-04.20

VIEW NAME: CCCCCDGNCSPECIFICATIONCCCCC CCCCCSYSTIMECCCCC

TRACS NO. HOOOO OI C

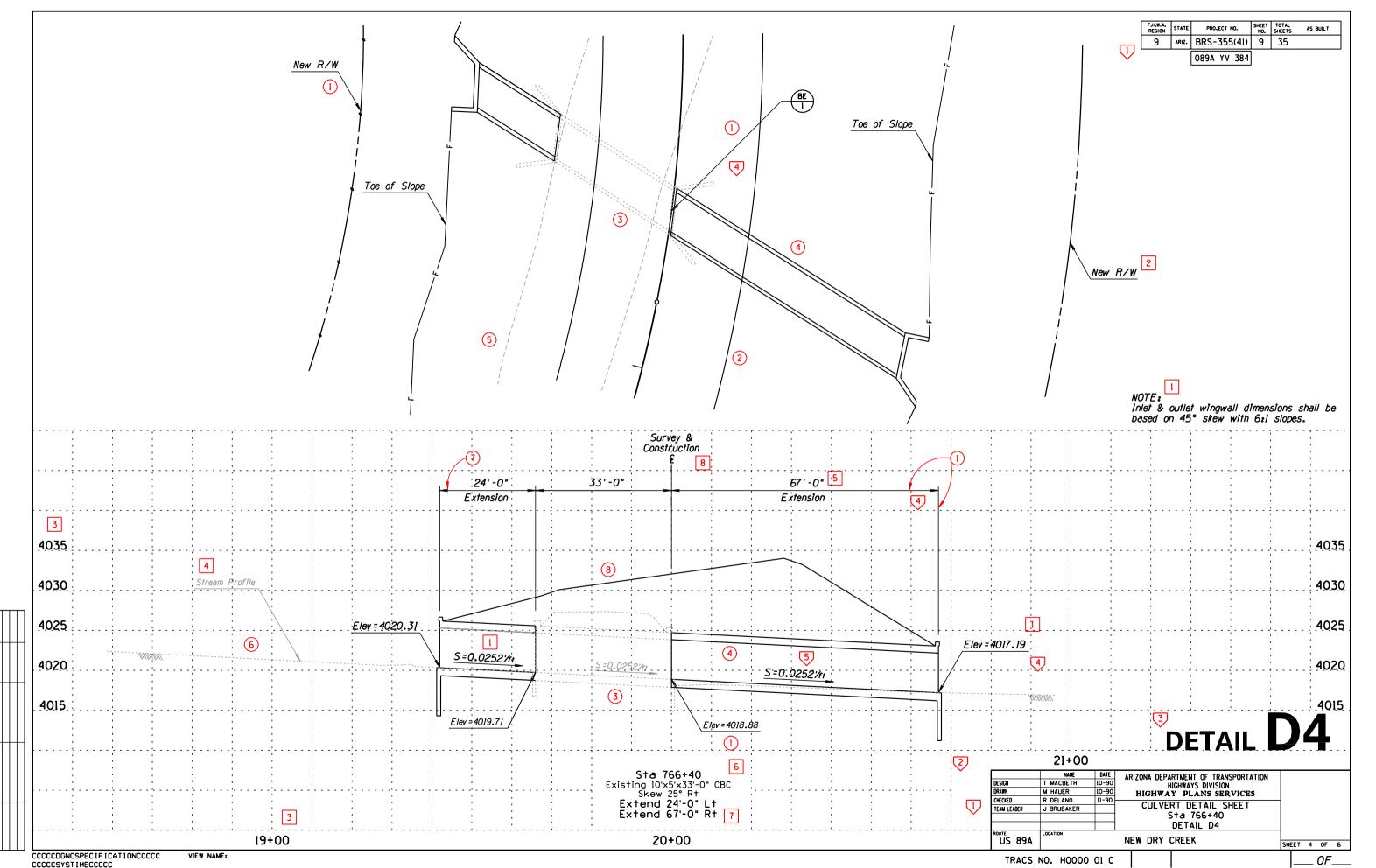
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						CAI	DD TEX	T PARAMETERS			М	MANUAL T	EXT PARAMETERS		
Reference	No. LV	CO= I	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style		Comments	
1	3	0	23	17.5	4	8.75	LB		1 2 3						
2	3	9	23	17.5	4	8.75	LB		5 6	No. 6 Ames/ 200 Leroy	2	Slant			
3	3	7	23	17.5	4	8.75	LB		7	No. 6 Ames/ 200 Leroy		Straigh	+		
4	6	2	1	20	6	11	СВ		4	No. 7 Ames/ 240 Leroy	3	Straigh	+		
5	2	5	23	17.5	4	8.75	СВ								
6	-	1	23	17.5	4	8.75	СВ								
7	3	9	1	17.5	4	8.75	СС								
						G	RAPHIC	PARAMETERS							
Reference	No. OLV	'CO= <b>⊿</b>	NT=	ıc=				Comments							
		6	1	3				Comments							
2		8	3	0											
3			1		<b>(</b> 1 ) V	/CO sh/	all mate	ch the LV/CO of Text placed for item							
4		55	3	0	<b>J</b> 2			and the transfer of the transf							
5		9	1	5											
<u> </u>		_	3	0											
7	•	-	-	-	ADOT	Stand	ard Lir	ne Terminator; Typical							
								an electrostatic plotter		_		US	SER NOTES		
Wh	ile this proce	dure i	srec	commer	nded t			layering methods with screens. e clarity of certain plan sheets,	Reference No.				Comment	s	
th	e use of this	proce	ess is	optic	nal.				Ū	See Std P-	00.70 for Titl	e Block 8	Project Number (	Block Layout	
		-1							2	See Std P-	00.70 for Pro	file Shee	t Overlay		
	r project rel 03.10; P-03.25;								3	See Std P-	00.60 & P-00.6	61 for Dir	mension & Leader I	Line Layout	
			•	. = ••					4	Show slope	in feet per	foot to	4 decimal places		
		_		_	_		_		5	See Std P-	00.61 for Deta				
	CO - COLOR			_		ference		▲ See Std P-P-00.60 Line Weight Table for Manual Construction.					APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION	N
	FT - FONT TX - TEXT SIZE WT - LINE WEIGHT			$\overline{}$		Referen		IT						DIVISION OF HIGHWAYS STANDARD DRAWINGS	
	LS - LINE SPACIN TJ - TEXT JUSTIF AC - ACTIVE CELI	ICATION		V - 1	user No	te Refer	ence Ca	are expressed in feet (scale - 1"=100") using ADOT's Standard Working Units					SAMPLE CU NEW	JLVERT DETAIL SHEET FOR PIPE INSTALLATION	P-05.10



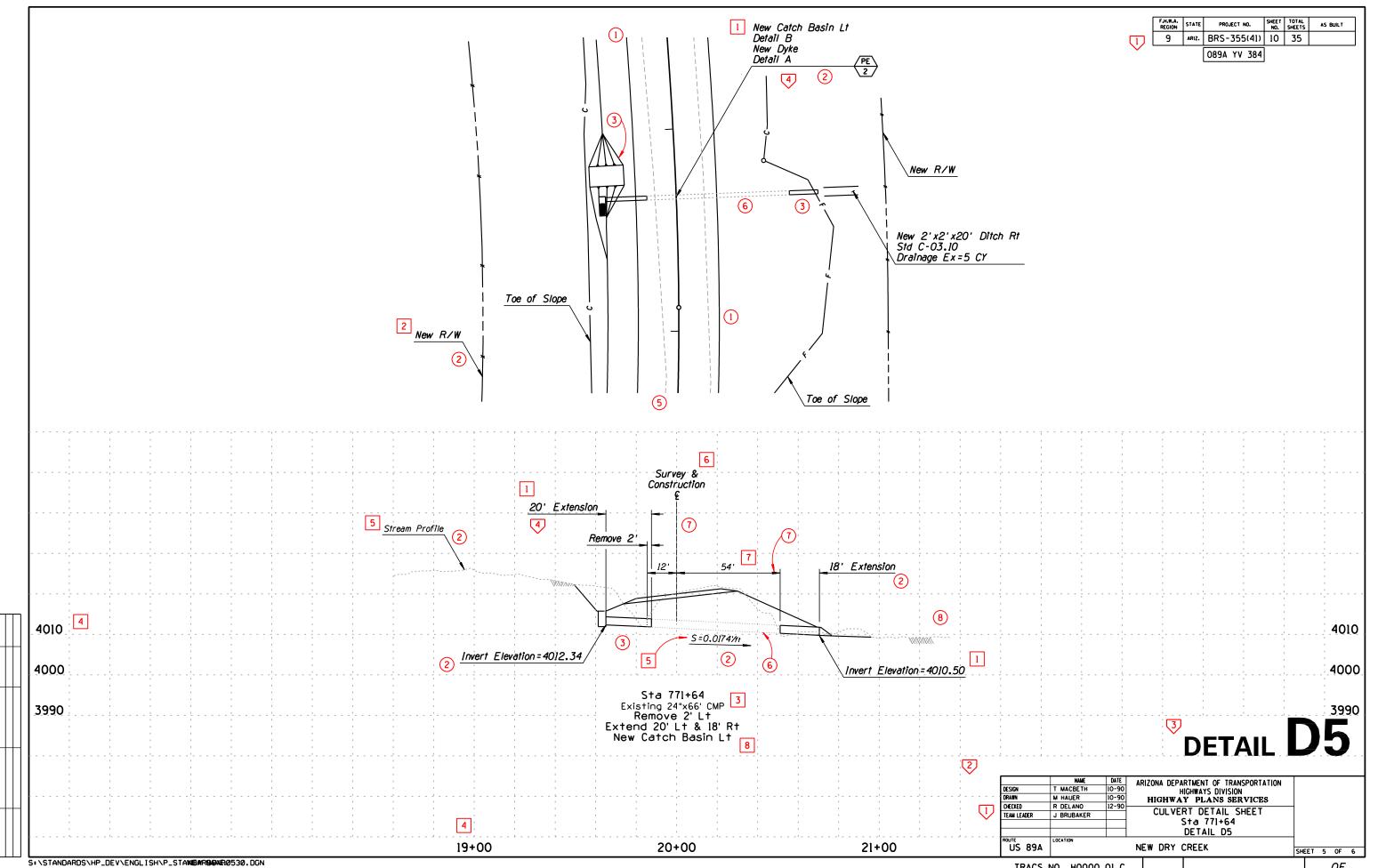
STD P-05.10

					CA	DD TEX	T PARAMETERS			N	MANUAL TE	XT 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 Ame: 200 Lero	3/	Slant	
2	30	23	17.5	4	8.75	LB		3	No. 7 Ame: 240 Lero	5/ 7	Straight	
3	62	1	20	6	11	СВ		4	No. 5 Ames	5/ 0	Slant	
4	14	23	15	2	7.5	LB		6	No. 5 Ames	5/ 0	Straight	
5	25	23	17.5	4	8.75	СВ		7	No. 6 Ames 200 Lero	5/ 2	Straight	
6	14	1	15	2	7.5	СВ						
7	39	1	17.5	4	8.75	СВ						
8	21	23	17.5	4	8.75	СВ						
					G	RAPHIC	PARAMETERS					
Reference No.	LV/CO=	▲ WT=	LC=				Comments					
	•	1	0	<b>●</b> LV/	CO sha	ıll matcı	h 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) (8)	20	3	0	ADOT	Stana	ra Line	Terminator; Typical					
NOTE: The subduct	d backgr ified per rocedure this pro related	ound s n table : is rec cess is	hown or by comments options	using nded to onal. stand	conve o enha ards:	ntional	an electrostatic plotter layering methods with screens. e clarity of certain plan sheets,	Reference No.   1 2 3 4	See Std See Std See Stds	P-00.70 for Pro P-00.61 for Det P-00.60 & P-00	le Block & ofile Sheet ail Format 0.61 for Dim	Layout nension & Leader Line Layout
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT S WT - LINE W LS - LINE S TJ - TEXT AC - ACTIVE	SIZE EIGHT PACING IUSTIFICATIO	N	<u></u> -		Referen	Callout ce Callou ence Call		5	Show Slop	e in feet per		DEPARTMENT OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS  SAMPLE CULVERT DETAIL SHEET FOR BOX EXTENSION  P-05.20



STD P-05.20

					CADD TEXT PAR	AMETERS					M	MANUAL 1	EXT PARAME	TERS	
Reference No.	LV/CO=	FT=	TX=	WT=	LS= TJ=		Comments	Reference No.		t Size	Rapidograph Pen Size	Style		Comments	
1	39	23	17.5	4	8.75 LB			1 2 6	200	Ames/ Leroy	2	Slant			
2	30	23	17.5	4	8.75 LB			3	175	Ames/ Leroy	0	Straigh	†		
3	39	1	15	2	7.5 CB			4	No. 7	Ames/ Leroy	3	Slant			
4	62	1	20	6	11 CC			5 7	175	Ames/ Leroy	0	Slant			
5	14	23	15	2	7.5 LB			8	No. 6	Ames/ Leroy	2	Straigh	+		
6	21	23	17.5	4	8.75 CB										
7	25	23	15	2	7.5 CB										
8	39	1	17.5	4	8.75 CB										
Reference No.	LV/CO=	▲ wT=	I C=		GRAPHIC PARA	METERS Comment	e								
1	35	3	0			Commerci	5								
2	1	1		<b>1</b> 1 V /	/CO shall be the san	e LV/CO as Text plac	ad for item								
3	38	3	0	JEV/	CO Stidil De Trie Sail	le LV/CO do Text plac									
4	-	_	-	ADOT	Standard arrow h	ad. Typical									
5	16	1	3	ADOT	Statistical distribution	saa, Typicai									
<u> </u>	13	1	5												
7	25	1	0												
8	59	1	5												
	+														
												US	SER NOTES		
						ectrostatic plotter ng methods with scre	ens.	Reference No.	$\Box$				Com	nments	
	orocedure	is rec	commen	nded to		ty of certain plan sh		Ū	See	Std P-0	0.70 for Titl	le Block 8	k Project Num	nber Block Layout	
ille use of	iiis pi 0	IS	, 00110	. IGI.				2	See	Std P-0	0.70 for Pro	ofile Shee	t Overlay		
NOTE: For projec	t related	sheets	s, see	stando	lards:			3	See	Std P-0	0.61 for Det	ail Sheet	Format		
P-03.10; P-0								4	See	Stds P	-00.60 & P-00	0.61 for D	imension & Le	eader Line Layout	
bbreviations: LV - LEVEL CO - COLOF FT - FONT TX - TEXT	R SIZE		<u> </u>	Graphic (	ference Callout Reference Callout	▲ See Std P-00.60 Table for Manual							APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS	
WT - LINE LS - LINE	WEIGHT SPACING JUSTIFICATION E CELL	N		Jser Not	te Reference Callout	Units of measur are expressed i ADOT's Standard	e for 'TX=' and 'LS=' n feet (scale - 1"=100') using Working Units.						SAMP	PLE CULVERT DETAIL SHEET FOR PIPE EXTENSION	DRAWING NO. P-05.30



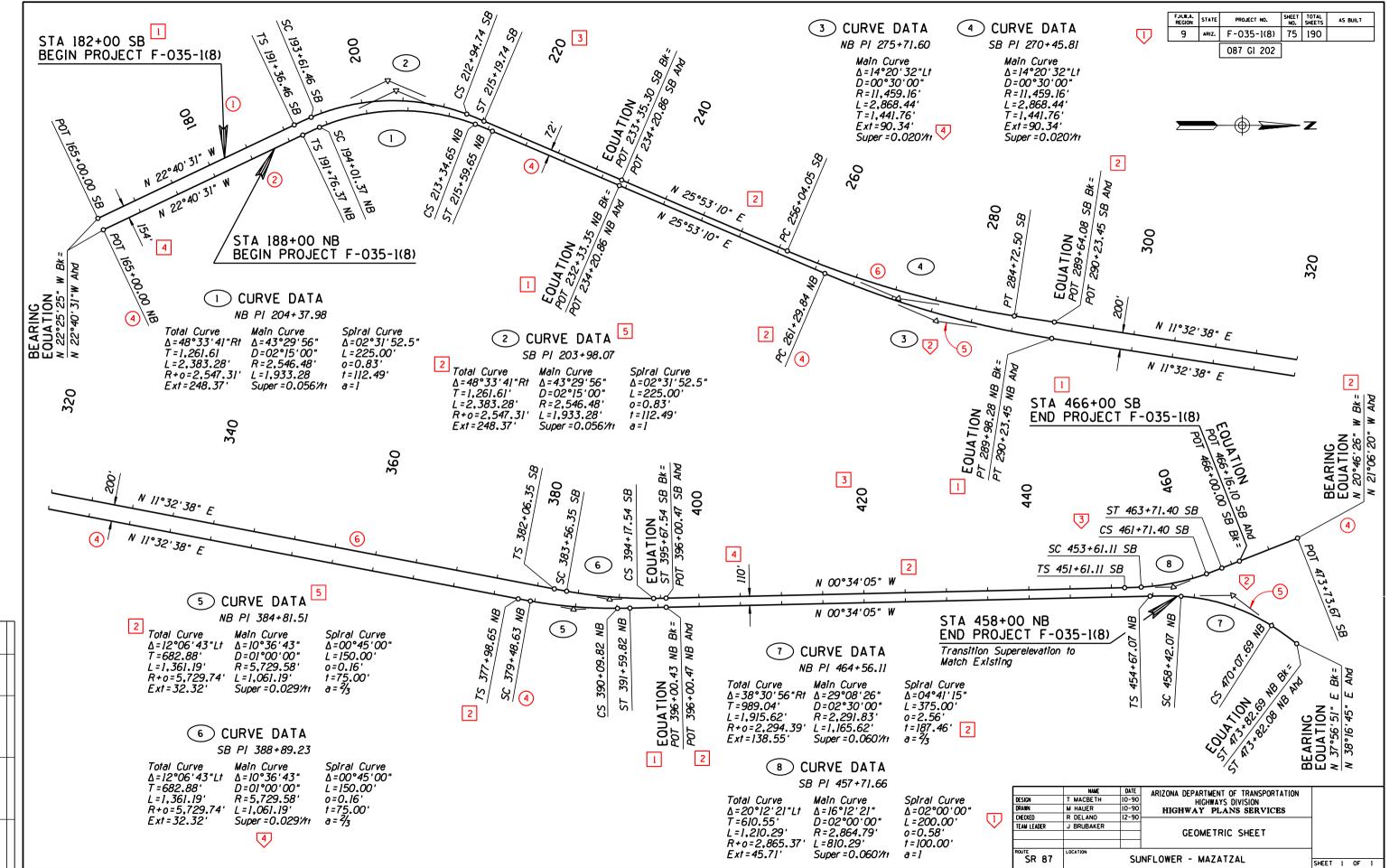
STD P-05.30

TRACS NO. HOOOO OI C

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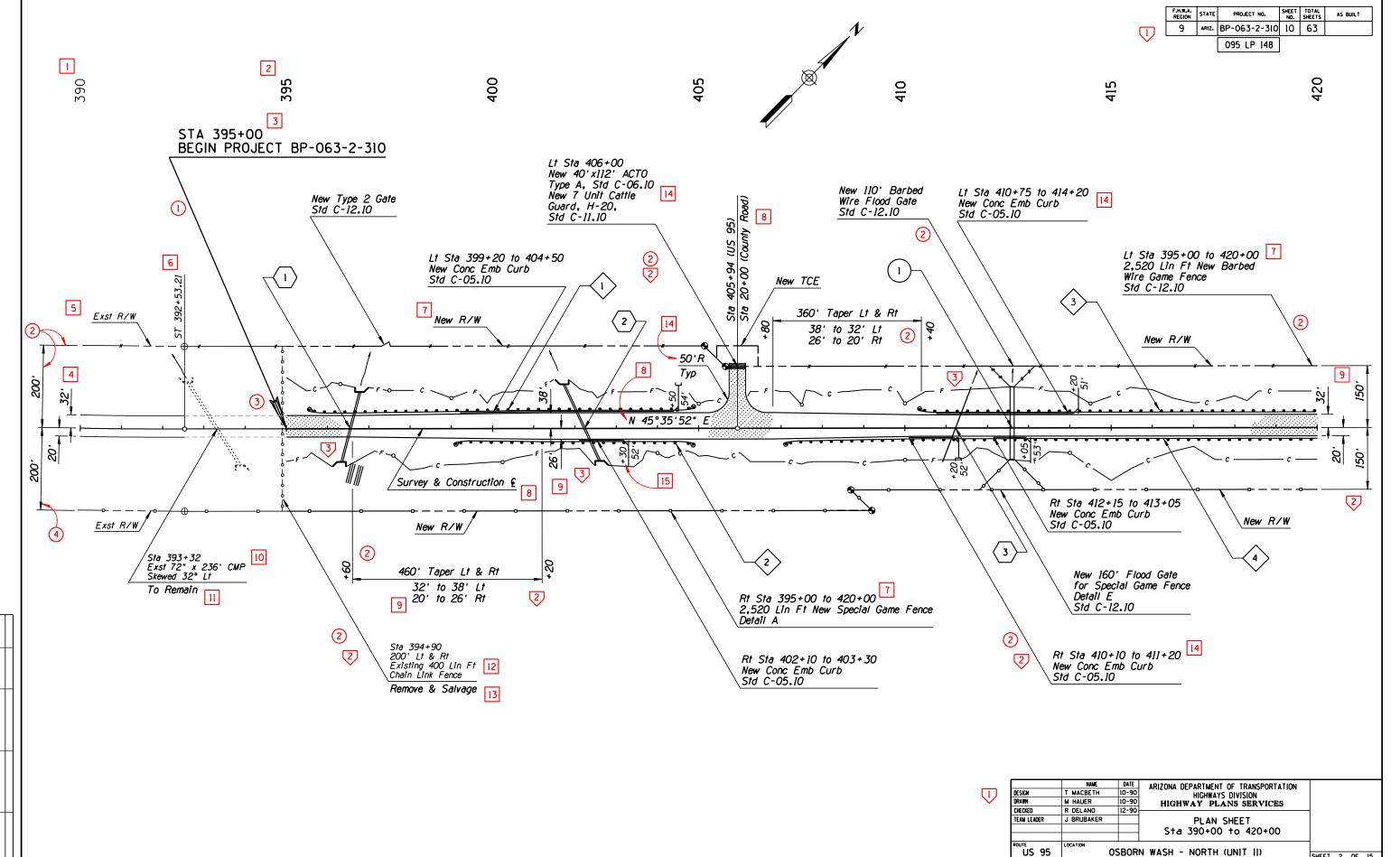
					CA	DD TEX	CT PARAMETERS				1	MANUAL TE	XT PARAMET	ERS	
Reference No.	LV/CO=	FT=	TX=	w T =	LS=	TJ=	Comments	Reference No.		Text Size	Rapidograph Pen Size	Style		Comments	
1	28	1	22	6	11	LB		1 3 5	5 N	No. 7 Ames 240 Leroy	/ ,	Straight			
2	28	23	17.5	4	8.75	LB		2 4		No. 6 Ames 200 Leroy	2	Slant			
3	28	1	22	6	-	LC									
4	25	23	17.5	4	8.75	LB									
5	28	1	22	6	11	СС									
					C	: RAPHIO	C PARAMETERS								
Reference No.	LV/CO=	<b>▲</b> WT:	LC=				Comments	-							
1	28	4	0				Commercia	$\dashv$							
2	28	4	0	ADOI	[ Stand	dard Lir	ne Terminator; modify scale 4 times larger	$\dashv$							
3	27	6	0	100	310110	JG: G E::	To for immercity dealer i fillines larger	$\dashv$							
4	•	1	0	(D) 1 V	//CO sh	all mat	ch LV/CO of Text placed for item	-							
5	28	1 1	0					-							
								1							
								1							
			•	•								USE	ER NOTES		
								Reference No.	.				Com	ments	
										See Std P	-00.70 for Tit	le Block &	Project Numb	per Block Layout	
								2		Locate To	p Point of PI	Toward CC	of Curve		
NOTE: For project P-02.10; P-0	t relate	d shee	ts, se	e stan	dards:			3		Horizontal	Control Point	Callouts a	are Shown Pe	rpendicular to	
. 02.10, 1														ay be Necessary	
								4		Show Supe	r Elevation in				
Abbreviations: LV - LEVEL CO - COLOF FT - FONT TX - TEXT WT - LINE LS - LINE TJ - TEXT AC - ACTIV	SIZE WEIGHT SPACING JUSTIFICATIO	ON	<u></u> -	Graphic		Callout nce Callou rence Ca						Ď _	PPROVED FOR ISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS  SAMPLE GEOMETRIC SHEET FOR RURAL ROADWAY	RAWING NO. P-06.10

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TRACS NO. HOOO OI C \_\_\_\_\_\_ OF\_\_

						טט וEX	PARAMETERS				ANUAL TEXT PARAME		
Reference No.	LV/CO=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style	Comments	
1	20	1	22	2	-	LC		1	No. 7 Ames/ 240 Leroy		Straight		
2	27	1	22	6	-	LC		2 3	No. 7 Ames/ 240 Leroy	3	Straight		
3	28	1	22	6	-	LB		4	No. 6 Ames/ 200 Leroy	0	Straight		
4	25	23	15	2	7.5	СВ		5 6 10 12					
5	29	23	15	2	7.5	LB		12 15 16	No. 5 Ames/ 175 Leroy	0	Slant		
6	21	23	15	2	7.5	LB		7 8 9 11	110 201 0,				
7	30	23	17.5	4	8.75	LB		13 14	No. 6 Ames/ 200 Leroy	2	Slant		
8	28	23	17.5	4	8.75	LB							
9	25	23	17.5	4	8.75	LB	TJ may be adjusted to fit condition						
10	14	23	15	2	7.5	LB							
11	39	23	17.5	4	8.75	LT							
12	24	23	15	2	7.5	LB							
13	43	23	17.5	4	8.75	LT							
14	36	23	17.5	4	8.75	LB							
15	39	23	15	2	7.5	LB							
					C	DADUIC	DADAMETEDS						
	N			T	G	RAPHIC	PARAMETERS						
Reference No.	) LV/CO=				G	RAPHIC	PARAMETERS Comments						
1)	28	<b>▲</b> WT=	0				Comments						
1)	28 <b>①</b>	4 1	0	<del> </del>	/C0 sha	all be th	Comments e same LV/CO as Text placed for item						
① ② ③	28	4 1 4	0 0	ADOT	/CO sha Stand	all be th lard Line	Comments  e same LV/CO as Text placed for item  e Terminator; modify scale 4 times larger				USER NOTES		
1 2	28 <b>①</b>	4 1	0	ADOT	/CO sha Stand	all be th lard Line	Comments e same LV/CO as Text placed for item	Reference No.	7			mments	
① ② ③	28 <b>①</b>	4 1 4	0 0	ADOT	/CO sha Stand	all be th lard Line	Comments  e same LV/CO as Text placed for item  e Terminator; modify scale 4 times larger	Reference No.	See Std P-0	00,70 for Tit	Co	mments mber Block Layout	
① ② ③	28 <b>①</b>	4 1 4	0 0	ADOT	/CO sha Stand	all be th lard Line	Comments  e same LV/CO as Text placed for item  e Terminator; modify scale 4 times larger				Co e Block & Project Nur		
(1) (2) (3) (4)	28 28 28 -	4 1 4 -	0 0 0 -	ADOT	/CO sha Stand Stand	all be th lard Line lard Line	Comments  e same LV/CO as Text placed for item  e Terminator; modify scale 4 times larger	<u> </u>	See Std P-0	00.60, and P-	Co e Block & Project Nur	mber Block Layout and Dimension Layout	
① ② ③	28 28 28 -	4 1 4 -	0 0 0 -	ADOT	/CO sha Stand Stand	all be th lard Line lard Line	Comments  e same LV/CO as Text placed for item  e Terminator; modify scale 4 times larger	2	See Std P-0	00.60, and P-	Co e Block & Project Nur O.61 for Leader Line	mber Block Layout and Dimension Layout	
1 2 3 4 POZ.20; P	28 28 28	4 1 4 -	0 0 0 -	ADOT	/CO sha Stand Stand dards:	all be th lard Line	Comments  e same LV/CO as Text placed for item  Terminator; modify scale 4 times larger  Terminator, typical	2	See Std P-0	00.60, and P-	Co e Block & Project Nur O.61 for Leader Line	mber Block Layout  and Dimension Layout  of Pipe  STATE OF ARIZONA	
NOTE: For proje P-02.20; P	28  28  28  -  ect related 2-03.20; P-0	4 1 4 -	0 0 0 -	ADOT ADOT  e stan  Text Re  Graphic	/CO shot Stand Stand dards:	all be the lard Line ard Line	Comments  e same LV/CO as Text placed for item  a Terminator; modify scale 4 times larger  a Terminator, typical  A See Std P-00.60 Line Weight Table for Manual Construction.	2	See Std P-0	00.60, and P-	Co e Block & Project Nur 0.61 for Leader Line phic Representation	mber Block Layout  and Dimension Layout  of Pipe  STATE OF ARIZONA  DEPARTMENT OF TRANSPORTATION  DIVISION OF HIGHWAYS	
NOTE: For proje P-02.20; P  Abbreviations: LV - LEVE CO - COLC FT - FON TX - TEX WT - LINE LS - LINE	28  28  28	4 1 4 -	0 0 0 -	ADOT ADOT  e stan  Text Re  Graphic	/CO shot Stand Stand dards:	all be th lard Line lard Line	Comments  e same LV/CO as Text placed for item  a Terminator; modify scale 4 times larger  a Terminator, typical  A See Std P-00.60 Line Weight Table for Manual Construction.	2	See Std P-0	00.60, and P-	Co e Block & Project Nur 0.61 for Leader Line phic Representation	mber Block Layout and Dimension Layout of Pipe  STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS	wing P-



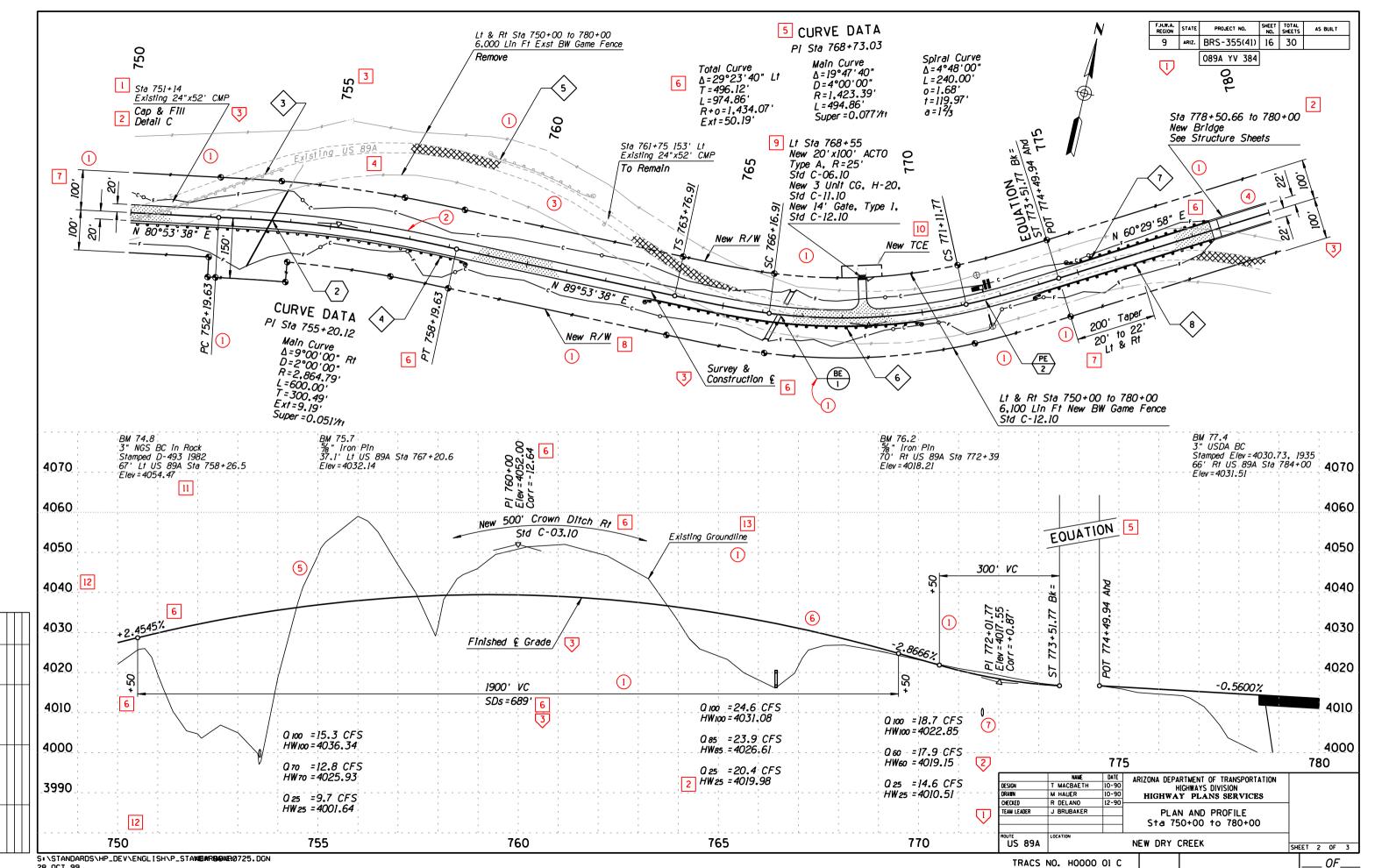
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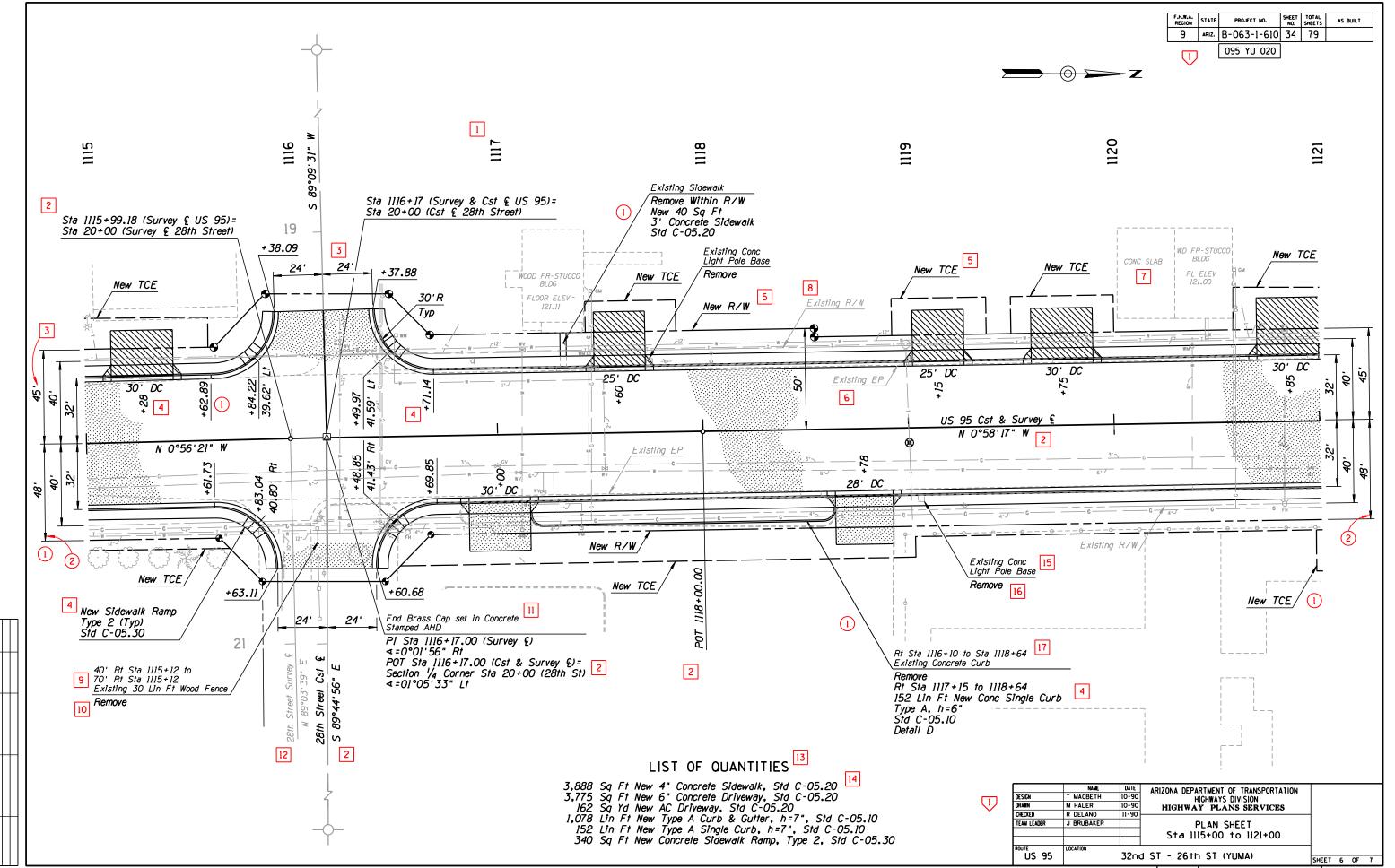
STD P-07.20

					CA	OD TEX	T PARAMETERS				MANUAL	TEXT PARAMET	TERS	
Reference No.	LV/CO=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	1 011 3120	iph Style		Comments	
1	13	23	15	2	7.5	LB		1 4 11 13	No. 5 Ames 175 Leroy	0	Slant			
2	39	23	17.5	4	8.75	LB		2 6 7 8						
3	27	1	22	6	11	LC		9 10	No. 6 Ames 200 Leroy	2	Slant			
4	19	23	15	2	7.5	LB		3 5 12	No. 7 Ames 240 Leroy	3	Straig	n†		
5	28	1	22	6	11	СВ								
6	28	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown							
7	25	23	17.5	4	8.75	СВ								
8	30	23	17.5	4	8.75	LB								
9	36	23	17.5	4	8.75	LB								
10	51	23	17.5	4	8.75	LB								
11	62	23	15	2	7.5	LB								
12	62	1	20	6	-	СВ	Use Text Nodes supplied with cell							
13	62	23	15	2	7.5	LB								
					C	DADUIC	PARAMETERS							
			T	ı	<u> </u>	RAFIIC	FARAMETERS	4						
Reference No.	LV/CO=	▲ WT=	_				Comments	4						
1)	•	1	0	● LV.	/CO sh	all mat	ch the same LV/CO as Text placed for item	4						
2	35	3	0					_						
3	16	1	3					_						
4	48	1	0					4						
5	59	1	0					4						
6	27	6	0					4						
7	38	3	0					4						
								_						
NOTE The set	a . a b													
using a	modified pe	n table	or by	using	conve	ntional	an electrostatic plotter layering methods with screens.				ι	SER NOTES		
	is procedure of this pro				o enha	nce th	e clarity of certain plan sheets.	Reference No.	<u> </u>			Com	ments	
								T)	See Std F	2-00-70 for	Title Block		ber Block Layout	
NOTE: Fair aire	loot =======	l aba-'		a+ == -1	3 m al a			2		9-00.70 for I				
NOTE: For proj P-03.10;	јест гејатес Р-03 <b>.</b> 25 <b>;</b> Р-0							3					ader Line Layout	
											33.3. 101			
bbreviations: LV - L(	EVEL			<b>.</b>	r	O-E :	A Car Chd D 00 CO 11-5 W-1-5-	II				APPROVED FOR DISTRIBUTION	STATE OF ARIZONA	<u> </u>
CO - C0 FT - F0	OLOR ONT		$\overline{}$		ference Referen		▲ See Std P-00.60 Line Weight Table for Manual Construction.					3.53.10.1	DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
WT - L IS - II	EXT SIZE INE WEIGHT INE SPACING		$\sim$		te Refer								STANDARD DRAWINGS	VING NO.
TJ - T(	EXT JUSTIFICATION	ON					ADOT's Standard Working Units.					EXAMP F	PLE PLAN & PROFILE SHEET FOR RURAL UNDIVIDED ROADWAY	P-07.25



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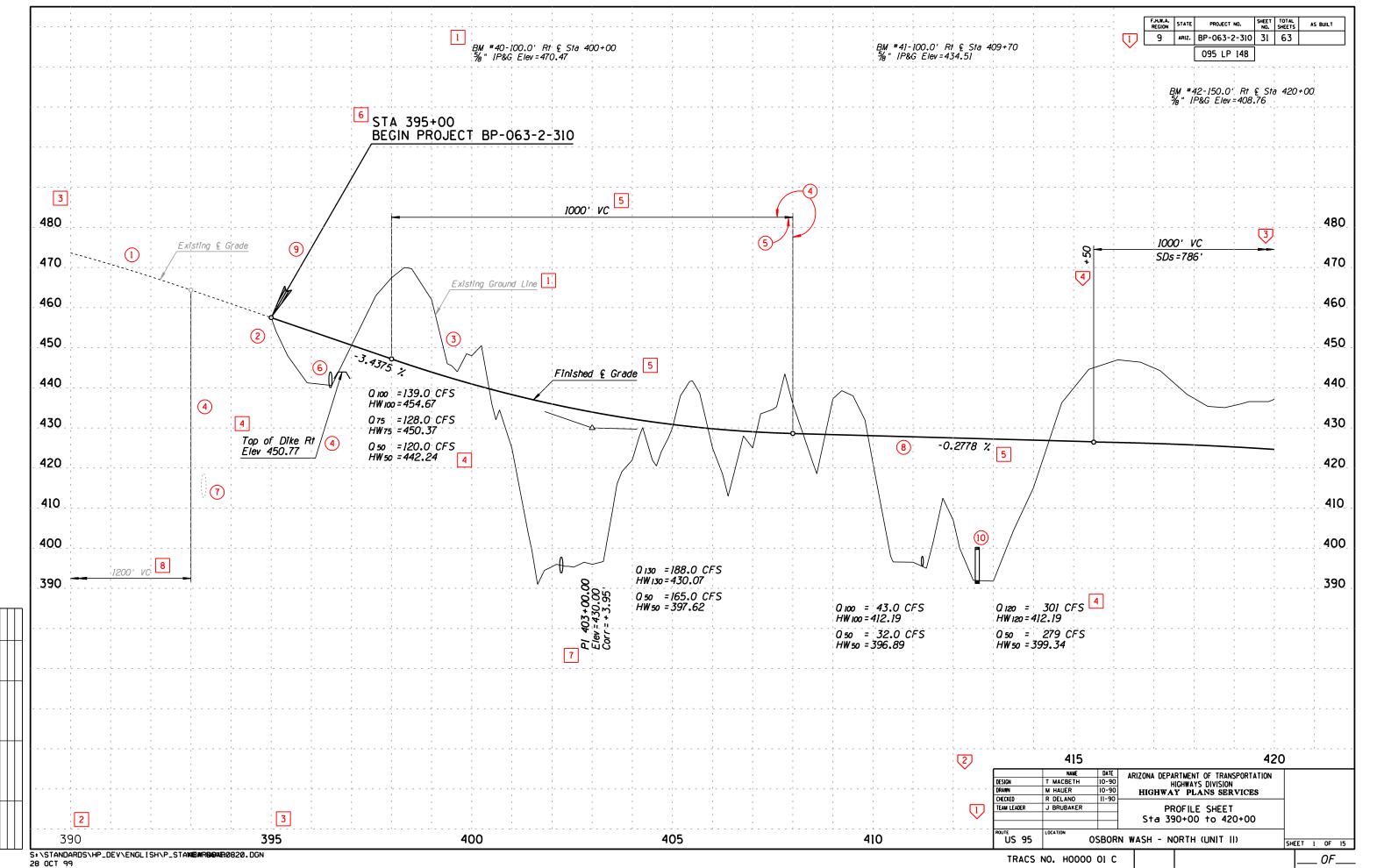
					CA	DD TEX	T PARAMETERS			N	ANUAL TEXT PARAM	METERS	
Reference No.	LV/CO=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style	Comments	
1	27	1	17.5	4	8.75	LC		1 13	No. 7 Ames/ 240 Leroy		Straight		
2	28	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown	2 3 4 5					
3	25	23	17.5	4	8.75	СВ		10 14 16	No. 6 Ames/ 200 Leroy	2	Slant		
4	45	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown	6 8 9 11					
5	30	23	17.5	4	8.75	LB		12 15 17	No. 5 Ames/ 175 Leroy	<u> </u>	Slant		
6	36	23	17.5	4	8.75	LB		7	No. 4 Ames/ 120 Leroy	00	Slant		
7	10	23	17.5	4	8.75	СВ							
8	29	23	15	2	7.5	LB							
9	10	23	15	2	7.5	LB							
10	10	23	17.5	4	8.75	LB							
11	3	23	15	2	7.5	LB							
12	20	23	15	2	7.5	LB							
13	54	1	17.5	4	8.75	СВ							
14	55	23	17.5	4	8.75	LB							
15	12	23	15	2	7.5	LB							
16	12	23	17.5	4	8.75	LB							
17	45	23	15	2	7.5	LB							
					G	RAPHIC	PARAMETERS						
Reference No.	LV/CO=	▲ WT=	_				Comments						
1	•	1	0				the same LV/CO as Text placed for item						
2	-	-	-	ADOT	Stand	ard Lir	ne Terminator, typical						
											USER NOTES		
							an electrostatic plotter	Reference No.	]		C	omments	
While this p	rocedure	e is re	commer	nded to			layering methods with screens. e clarity of certain plan sheets,	Ū		00.70 for Titl	e Block & Project Nu	umber Block Layout	
the use of	this pro	cess i	s optic	onal.				·			<u> </u>	· · · · · · · · · · · · · · · · · · ·	
NOTE: For projec	t related	l sheet	s. see	stand	ards:								
P-02.30; P-													
Abbreviations: LV - LEVEL CO - COLOI FT - FONT TX - TEXT WT - LINE LS - LINE TJ - TEXT AC - ACTIV	SIZE WEIGHT SPACING JUSTIFICATIO	DN	<u></u> -		Referen	Callout ce Callou			1		APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS  SAMPLE PLAN SHEET FOR URBANIZED AREA ROADWAY	NG NO.



STD P-07.30

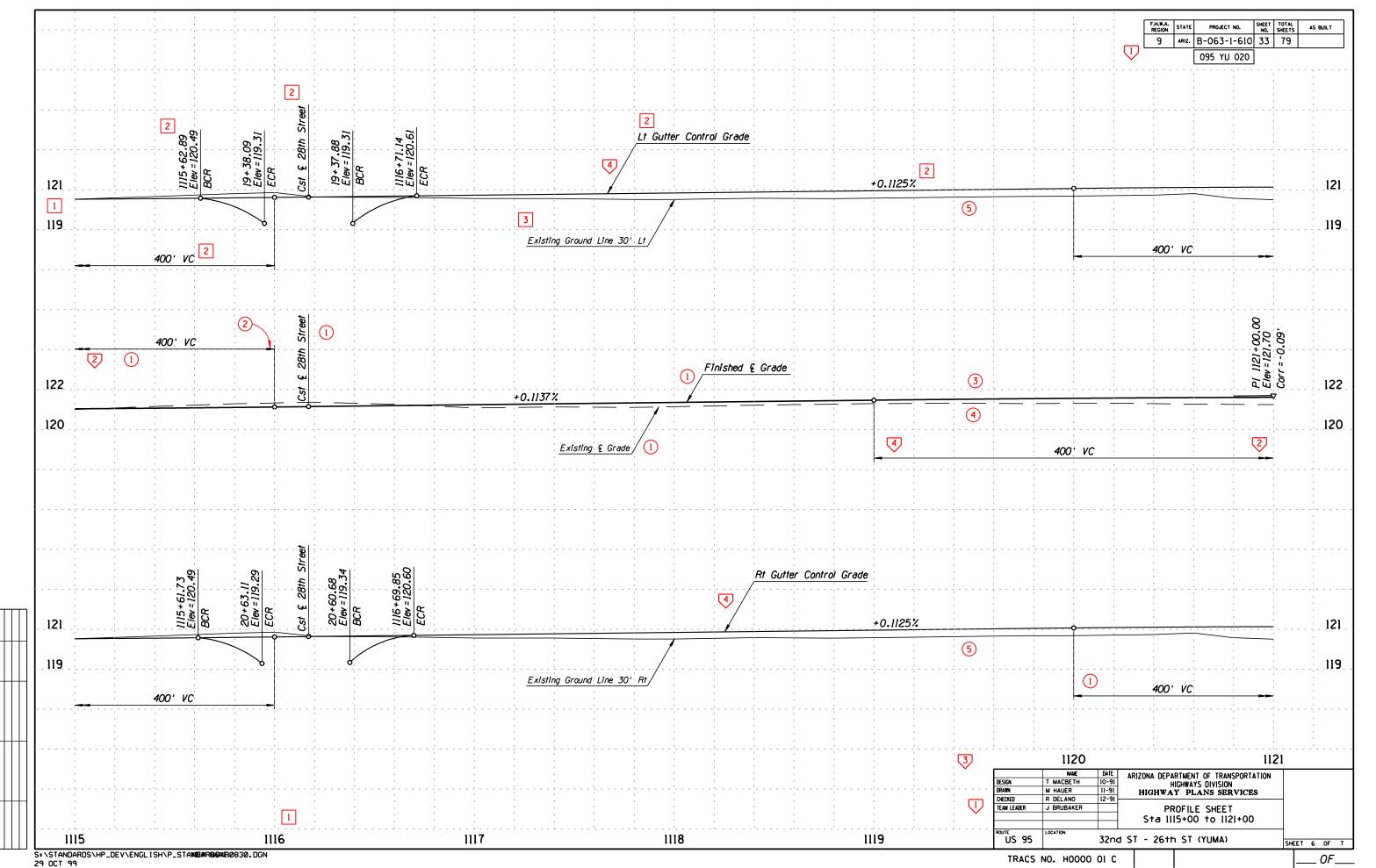
TRACS NO. HOOOO OI C

					CAI	DD TEX	T PARAMETERS			М	IANUAL T	EXT PARAMET	ERS	
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	-	СС	Use Text Node supplied with cell and change weight	3 6	No. 7 Ames/ 240 Leroy		Straigh:	+		
3	62	1	20	6	-	СС	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	1	Straigh	+		
5	28	23	17.5	4	8.75	СВ	TJ=CT if text string is placed under text line	2	No. 7 Ames/ 240 Leroy	0	Straigh	+		
6	28	ı	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	СВ								
									•					
	1	1	1 .	1	G	RAPHIC	PARAMETERS							
Reference No.	LV/CO=	▲ WT=	1				Comments	-						
1)	20	1	3											
2	28	4	0	ADOT	Stand	ard Lir	ne Terminator; modify scale 4 times larger	1						
3	59	1	0	2				-						
4	•	1					the same LV/CO as text placed for the item	1						
5	-	- 3	-	ADOT	Stand	ard Li	ne Terminator, typical							
6	38	,	0											
<u> </u>	13	1	5											
8	27	6	0											
9	28	4	0					-						
<u>w</u>	48	3	0					-						
NOTE TO SE											US	ER NOTES		
using a mod	dified per	n table	or by	using	conve	ntiona	an electrostatic plotter layering methods with screens.	Reference No.				Comn	nents	
While this p the use of					o enha	nce th	e clarity of certain plan sheets,	Ū	See Std P-	00.70 for Title	e Block &	Project Numb	er Block Layout	
233 01	<b>5</b> p. 0		_ 56.10	- · · <del>- · •</del>				2	See Std P-	00.70 for Pro	file Shee	t Overlay		
NOTE: For series!		shest:		a+				3	Double arro	ows are shown	n for cor	ntinuation on	the adjacent sheet	
NOTE: For project P-02.20; P-03	теютео 3.20; Р-03	ынетs 3.30; Р-	07.20	o i di 10đ	ıı US <b>:</b>			4	Identify pl	us station for	r other	than +00		
Abb as talk												APPROVED FOR	STATE OF ARIZONA	T
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT	SIZE		<u> </u>	Text Ref Graphic	Referen	ce Callou						APPROVED FOR DISTRIBUTION	STATE OF ARIZUNA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS	
WT - LINE V LS - LINE S TJ - TEXT AC - ACTIVE	BPACING JUSTIFICATIO E CELL	ON	V -	User Not	te Refer	ence Ca	Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - l"=100') using ADOT's Standard Working Units.					R		P-08.20



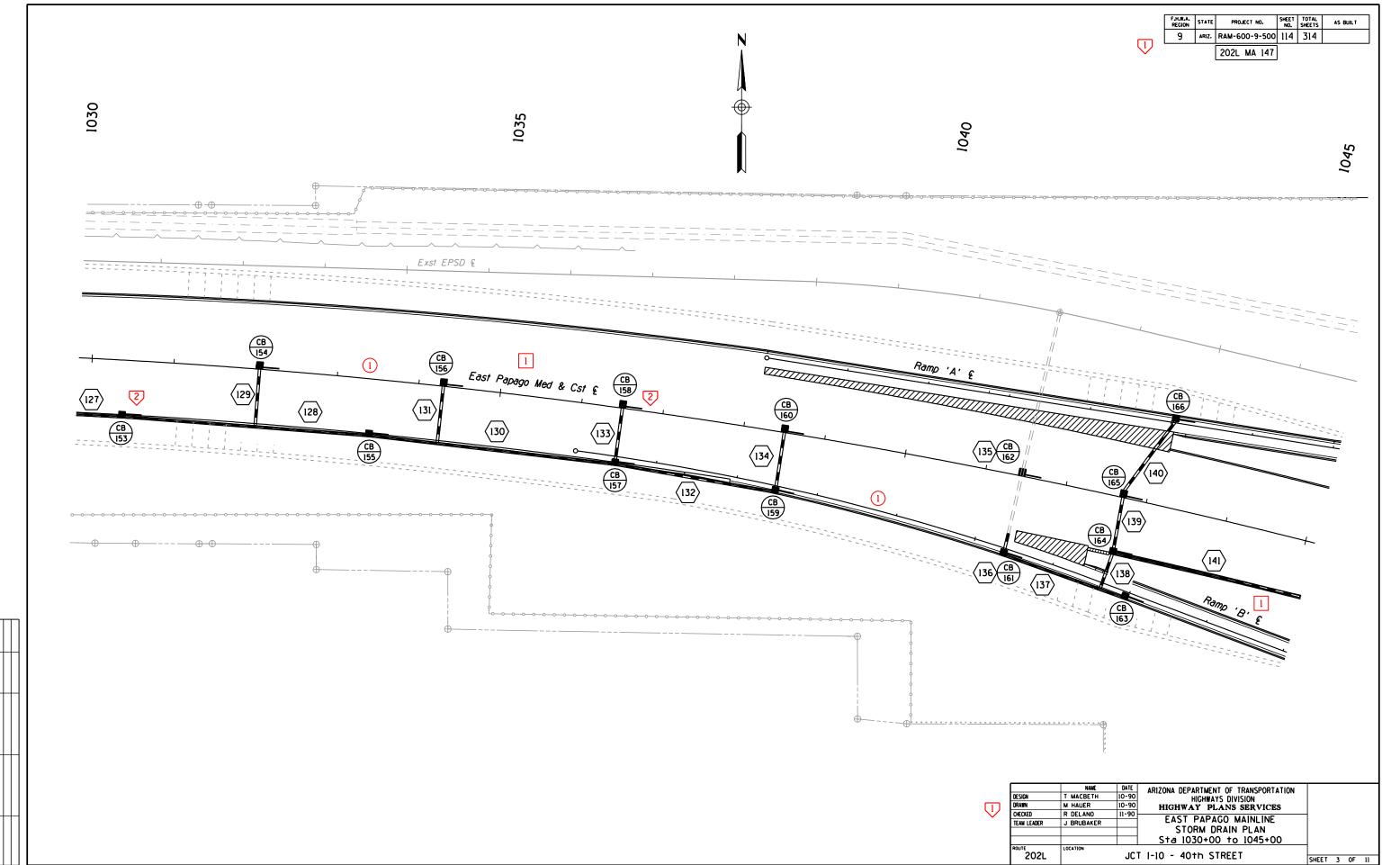
STD P-08.20

					CA	DD TEX	T PARAMETERS			ı	MANUAL TEXT	PARAMETERS
Reference No.	LV/CO=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	1 611 3126	Style	Comments
1	62	1	20	6	11	СВ		1	No. 7 Ame: 240 Lero	,   3	Straight	
2	28	23	17.5	4	8.75	LB		2	No. 6 Ame: 200 Lero	/ 2	Slant	
3	62	23	15	2	7.5	LB		3	No. 5 Ame: 175 Lero	0	Slant	
					G	RAPHIC	PARAMETERS					
Reference No.	LV/CO=	▲ WT=	LC=				Comments					
	•	1					th the LV/CO of text placed for item					
2	-	-	-	ADOT	Stand	lard Lin	ne Terminator; Typical					
3	27	6	0									
<u>4</u> <u>5</u>	59 59	1	0									
using a mod	dified per rocedure	n table e is re	e or by commer	using nded t	conve	ntional	an electrostatic plotter layering methods with screens. e clarity of certain plan sheets,	Reference No.			USER N	Comments
									See Std	9-00.70 for Tit	le Block & Pro	pject Number Block Layout
NOTE: For project								2				continuation on the adjacent sheet
P-02.30; P-0	12.51; P-07	r.50; P	-12.20;	r-13 <b>.</b> 20				3		P-00.60 & P-00		erlay sion & Leader Line Layout
Abbreviations: LV - LEVEL CO - COLOF FT - FONT TX - TEXT WT - LINE S LS - LINE S TJ - TEXT AC - ACTIV	SIZE VEIGHT SPACING JUSTIFICATIO	)N	<u></u> -	Graphic		Callout ce Callou		<u> </u>			APPROVE DISTRIBU	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS  SAMPLE ROADWAY PROFILE SHEET FOR URBANIZED AREA  DRAWING NO. P-08.30



STD P-08.30

						CAI	DD TEX	T PARAMETERS			М	MANUAL 1	EXT PARAME	TERS	
Reference N	lo. LV/	CO=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style		Comments	
1	2	:8	23	17.5	4	8.75	LB		1	No. 6 Ames/ 200 Leroy	' a	Slant			
						G	RAPHIC	PARAMETERS							
Reference I	No. O LV	′CO=	▲ WT=	LC=				Comments							
1		27	3	0	New	Center	lines s	hall be a weight of 3 when shown on Storm Drain plan sheet only							
usir	g a modifie	d pen	table	or by	using	conve	ntional	an electrostatic plotter layering methods with screens. e clarity of certain plan sheets.				US	ER NOTES		
the	use of this	proc	cess is	s optic	onal.					7				mments	
														nber Block Layout	
NOTE: For P-13		ated	sheet	s, see	stand	lards:			2	Represent	s Slotted Drai	n; One sy	mbol for all	sizes	
P-13	.10														
													APPROVED FOR	CTATE OF ADIZONA	<u> </u>
T W	O - COLOR T - FONT X - TEXT SIZE T - LINF WFIGHT			<u> </u>	Graphic	ference Referen te Refer	ce Callou	Units of measure for 'TX=' and 'LS='					APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS	
Т	S - LINE SPACIN J - TEXT JUSTIF C - ACTIVE CELI	ICATION	ı	•				are expressed in feet (scale - ["=100") using ADOT's Standard Working Units.					SA	MPLE STORM DRAIN PLAN FOR URBAN FREEWAY MAINLINE	P-12.10

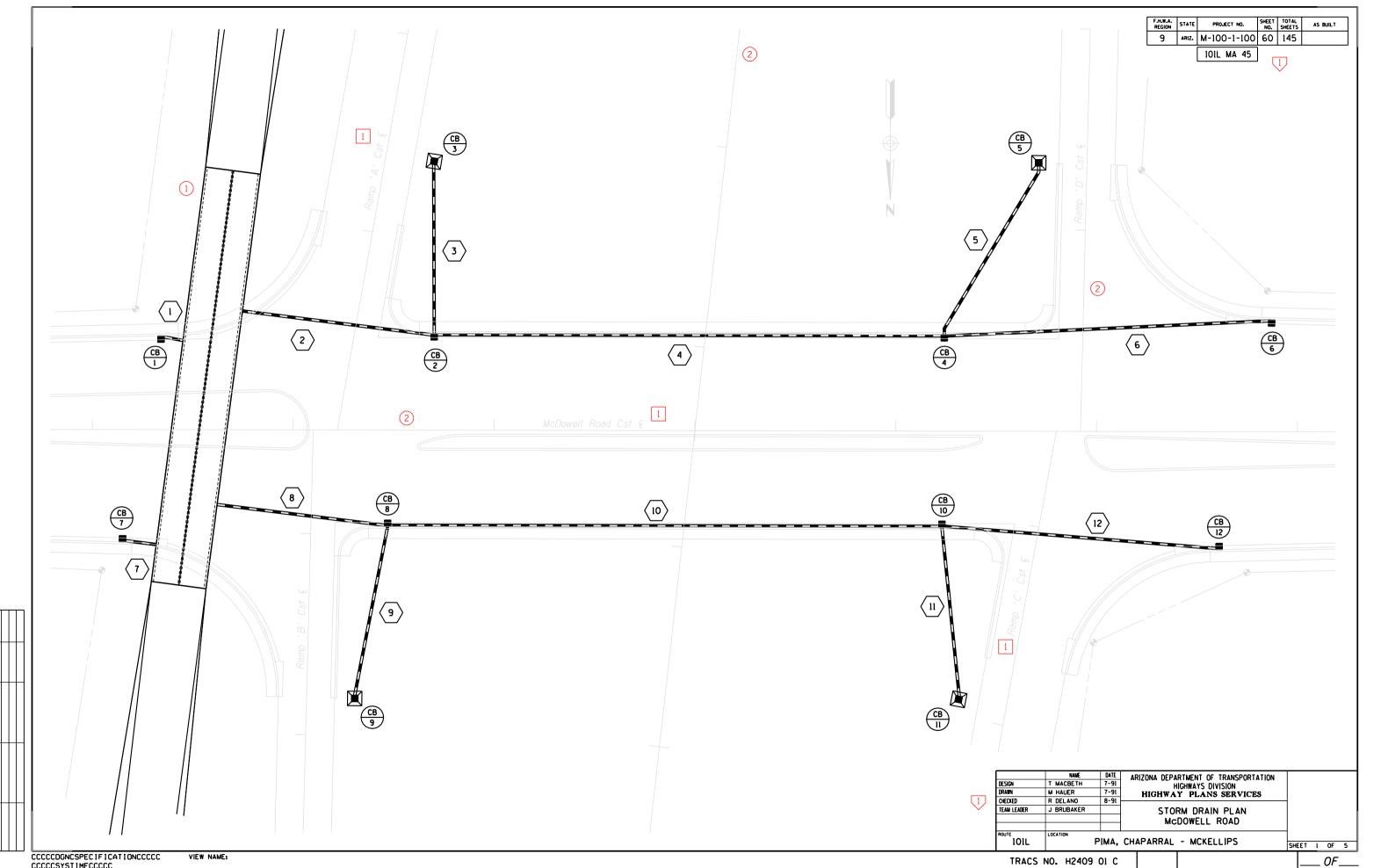


STD P-12.10

JCT 1-10 - 40th STREET SHEET 3 OF \_\_\_\_\_OF\_

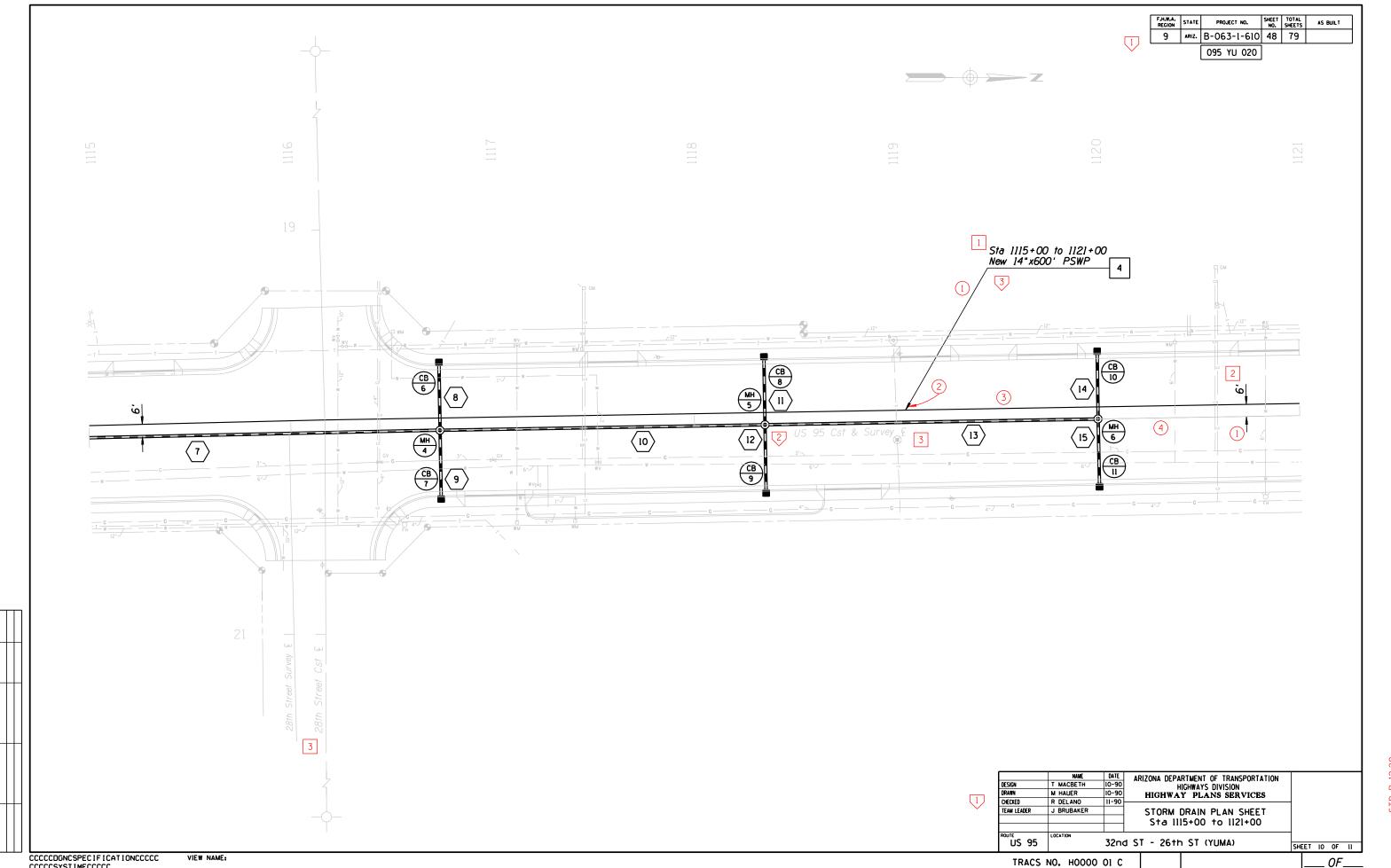
TRACS NO.

					CAE	D TEX	CT PARAMETERS			М	IANUAL T	EXT PARAMET	ERS	
Reference No.	LV/CO=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style		Comments	
1	28	23	17.5	4	8.75	LB		1	No. 6 Ames/ 200 Leroy	2	Slant			
									•					
		1	T.,	T	GI	RAPHIC	: PARAMETERS							
Reference No. (	LV/C0=	<u> </u>	+				Comments							
<u> </u>	38	3	0		•									
2	27	3	0	New	Center	line sn	all be a weight of 3 when shown on Storm Drain plan sheet only							
using a r While this	modified pe s procedur	n table e is re	or by	using	conve	ntional	an electrostatic plotter layering methods with screens. ne clarity of certain plan sheets,				US	ER NOTES		
the use	of this pro	ocess i	s optic	onal.				Reference No.					ments	
								Ū	See Std P-	00.70 for Title	e Block &	Project Numb	per Block Layout	
NOTE: For proj P-13.15	ect related	d sheet	s, see	stand	ards:									
P-13.13														
												APPROVED FOR	CTATE OF ADIZONA	REV.
Abbreviations: LV - LE CO - CO FT - FO TX - TE WT - LII	LOR NT XT SIZE NE WEIGHT		<u></u> -	Graphic	ference Referenc te Refer	ce Callou	Units of measure for 'TX=' and 'LS='				ĺ	IPPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DRAWINGS	
LS - LIN TJ - TE AC - AC	NE SPACING XT JUSTIFICATION TIVE CELL	ON	~				are expressed in feet (scale - l"=100') using ADOT's Standard Working Units.					SAMP FOR	PLE STORM DRAIN PLAN SHEET URBAN FREEWAY CROSSROAD	P-12.15



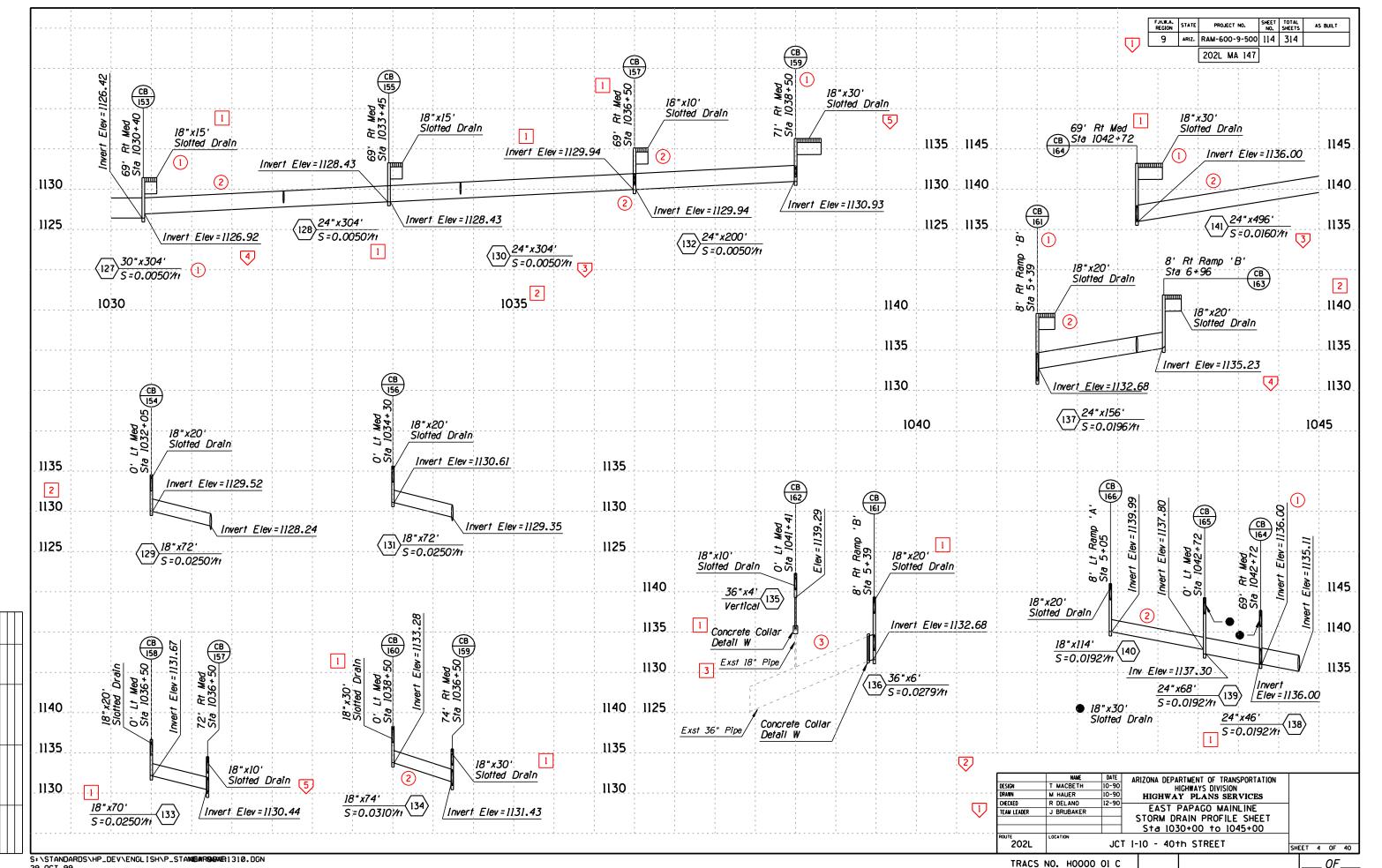
STD P-12.15

						CAI	D TEXT PARAMETERS			М	MANUAL TEX	T PARAMETERS
Reference No	D. UV/0	0= F	T=	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 3	No. 6 Ames 200 Leroy	′	Slant	
2	25		23	17.5	4	8.75	LB					
3	28		23	17.5	4	8.75	LB					
						G	APHIC PARAMETERS					
Reference N	o. O LV/(	:0=	. W T =	LC=			Comments					
1	0	)	1	0	● LV	/CO sh	l be the same LV/CO as Text placed for item					
2	-		-	-	ADOT	Stand	rd Line Terminator, typical					
3	38	3	3	0								
4	27	,	3	0	New	Center	ne shall be a weight of 3 when shown on Strom Drain plan sheet only					
							ed by an electrostatic plotter					NOTES
While	this proced	lure is	rec	ommer	nded t		tional layering methods with screens. ce the clarity of certain plan sheets,	_	<b>-</b> 1		n2FK	RNOTES
the	use of this	proce	ss is	optio	nal.			Reference No.		20.70.5 =-		Comments
								U	See Std P	·00.70 for Titl	le Block & Pr	roject Number Block Layout
								ি		abala C · · · · ·	) T! ·	and for 20 Copie
NOTE: For								2				ger for 20 Scale
P-02.  Abbreviations: LV	30; P-02.31; I			8.30;   T	P-13.20	) ference	allout ▲ See Std P-00.60 Line Weight Table for Manual Construction.	3		nhole Symbol 2	der Line Lay	



TRACS NO. HO000 01 C

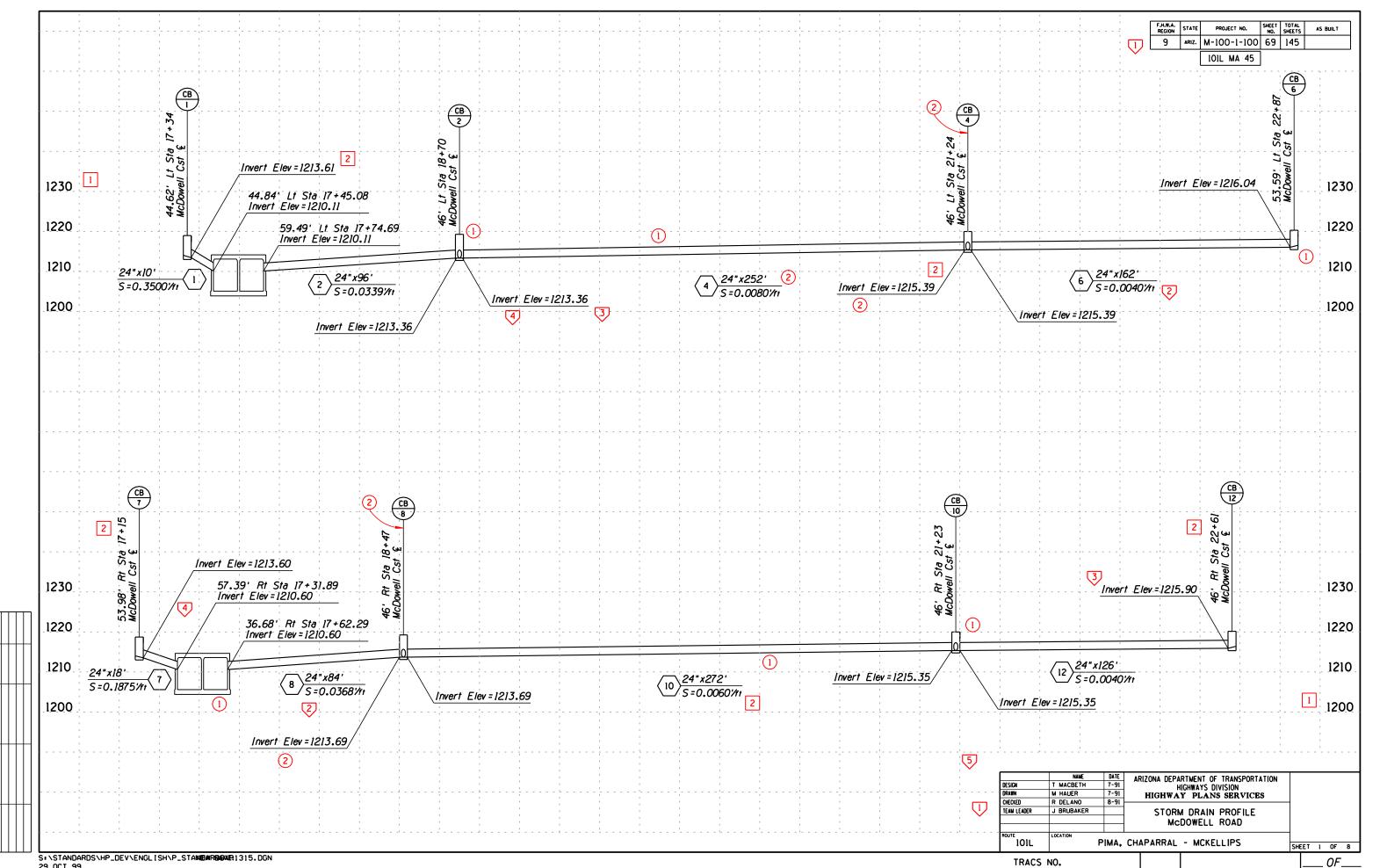
CADD TEXT PARAMETERS	MANUAL TEXT PARAMETERS	
Reference No. LV/CO= FT= TX= WT= LS= TJ= Comments	Reference No. Text Size Rapidograph Pen Size Style Comments	
1 39 23 17.5 4 8.75 LB	No. 6 Ames/ 2 Slant	
2 62 1 22 6 11 CB	No. 7 Ames/ 240 Leroy 3 Straight	
3 14 23 15 2 7.5 LB	3 No. 5 Ames/ 0 Slant 175 Leroy	
		-
GRAPHIC PARAMETERS		
Reference No.   LV/CO=   AWT= LC=   Comments		
1		
2 38 3 0		
3 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.	USER NOTES	
While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.	Reference No. Comments	
	See Std P-00.70 for Title Block & Project Number Block Layout	
NOTE: For project related sheets, see standards:	See Std P-00.70 for Profile Sheet Overlay	
P-12.10	Show Slope in feet per foot to 4 decimal places	
NOTE: Do not use arrow heads to callout elevations	Show elevations to 2 decimal places	
NOTE. DO NOT USE OFFOW HEADS TO COMOUN EMEVATIONS	See Std P-00.61 for Leader Line Layout	
Abbreviations: LV - LEVEL C0 - COLOR FT - FONT C - Graphic Reference Callout CO - COLOR FT - FONT C - Graphic Reference Callout	APPROVED FOR STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION	
TY - TEYT SIZE	DIVISION OF HIGHWAYS STANDARD DRAWINGS	
WT - LINE WEIGHT Units of measure for 'TX=' and 'LS=' LS - LINE SPACING are expressed in feet (scale - 1"=100') using TJ - TEXT JUSTIFICATION AC - ACTIVE CELL ACTIVE CELL	in the second se	RAWING NO.
TJ - TEXT JUSTIFICATION AC - ACTIVE CELL ADOT'S Standard Working Units.	SAMPLE STORM DRAIN PROFILE FOR URBAN FREEWAY MAINLINE	P-13.10



STD P-13,10

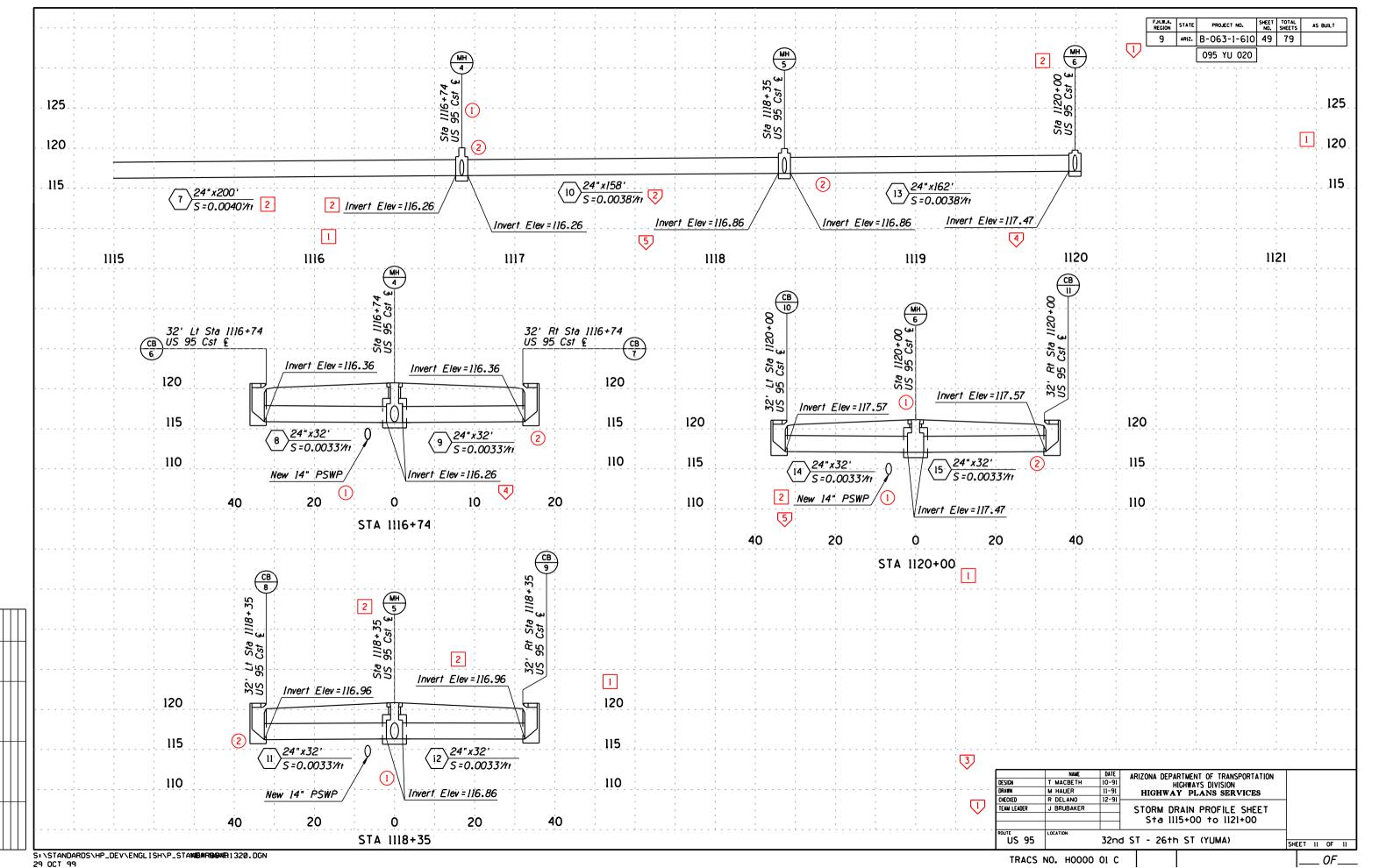
					CAD	D TEX	T PARAMETERS				MANUAL TE	EXT PARAMETERS
Reference No.	LV/CO=	FT=	TX=	wT=	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style	Comments
1	62	1	20	6	-	СВ	Use text node supplied with cell	1	No. 7 Ames/ 240 Leroy	3	Straight	
2	39	23	17.5	4	8.75	LB		2	No. 6 Ames/ 200 Leroy	2	Slant	
					GF	RAPHIC	PARAMETERS					
Reference No.	LV/CO=	<b>▲</b> wT=	- I I C=	Τ			Comments	$\dashv$				
1)	38	3	0	+			GG/////G	$\dashv$				
2	•	1	0	<b>●</b> LV	/CO sha	ll matc	ch the same LV/CO of Text placed for item	-				
								-				
				1								
							an electrostatic plotter				UCE	ER NOTES
While this p	rocedur	e is re	comme	nded t			layering methods with screens. e clarity of certain plan sheets,		, T		USE	ER NOTES
the use of	this pro	ocess i	is opti	onal.				Reference No.				Comments
								Ū				Project Number Block Layout
NOTE: For projec	t related	d sheet	ts, see	stand	ards:			2	-			decimal places
P-12 <b>.</b> 15								3		tions to 2 de	·	
NOTE: Do not use	arrow he	ads to	callou	t eleva	ations			4		00.61 for Le		
								5	See Std P-	00.70 for Pr		
Abbreviations: LV - LEVEL CO - COLOF FT - FONT TX - TEXT	SIZE		0 -	Graphic	ference ( Referenc	e Callou					DI	PPROVED FOR STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS
WT - LINE LS - LINE TJ - TEXT AC - ACTIV	WEIGHT SPACING JUSTIFICATIO	ON	▽ -	User No	te Refere	ence Cal	Mout Units of measure for 'TX=' and 'LS=' are expressed in feet (scale - l"=100') using ADOT's Standard Working Units.					STANDARD DRAWINGS  SAMPLE STORM DRAIN PROFILE SHEET FOR URBAN FREEWAY CROSSROAD  DRAWING NO. P-13.15

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STD P-13.15

					CAE	DD TEX	T PARAMETERS	MANUAL TEXT PARAMETERS						
Reference No.	LV/C0=	FT=	TX=	<b>w</b> T =	LS=	TJ=	Comments	Reference No.	Text Size	Rapidograph Pen Size	Style	Comments		
1	62	1	20	6	11	СВ	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			
					GI	RAPHIC	PARAMETERS							
Reference No.	) LV/CO=	<b>▲</b> wT=	1 C=				Comments							
1	•	1		① LV/	/CO sha	all matc	h the LV/CO of text placed for item							
2	38	3	0				·							
								<b></b>						
							an electrostatic plotter				USER NOT	TES		
using a mo While this	odified pe procedure	n table e is re	or by commer	using nded to	conver	ntional	an electrostatic plotter layering methods with screens. e clarity of certain plan sheets.		<b>1</b>		USER NOT			
using a mo	odified pe procedure	n table e is re	or by commer	using nded to	conver	ntional	layering methods with screens.	Reference No.		20 70 for Title		Comments		
using a mo While this the use o	odified pe procedure f this pro	n table e is re ocess is	or by commer s optic	using nded to onal.	conver o enhai	ntional	layering methods with screens.	Ū	See Std P-0		e Block & Projec	Comments ct Number Block Layout		
using a mo While this the use o	odified pe procedure f this pro	n table e is re ocess is	or by commer s optic s, see	using nded to onal.	conver o enhai ards:	ntional	layering methods with screens.	(2)	See Std P-0 Show Pipe S	Slope in feet	e Block & Projec	Comments ct Number Block Layout decimal places		
using a mo While this the use o	odified pe procedure f this pro	n table e is re ocess is	or by commer s optic s, see	using nded to onal.	conver o enhai ards:	ntional	layering methods with screens.	2 3	See Std P-( Show Pipe S See Std P-(	Slope in feet 00.70 for Pro	e Block & Projec per foot to 4 c file Sheet Overla	Comments ct Number Block Layout decimal places		
using a mo While this the use o	odified per procedure f this pro ct related -02.31; P-0	n table e is re- pocess is d sheet 7.30; P-	or by commer s optic s, see	r using nded to onal. stando P-12.20	conver o enhar ards:	ntional nce th	layering methods with screens.	3 4	See Std P-( Show Pipe S See Std P-( Show Elevat	Slope in feet 00.70 for Pro tions to 2 de	e Block & Project per foot to 4 c file Sheet Overk cimal places	Comments ct Number Block Layout decimal places		
using a mo While this the use of NOTE: For project P-02.30; P-	odified per procedure f this pro ct related -02.31; P-0 e arrow h	n table e is re- pocess is d sheet 7.30; P-	or by commer s optic s, see 08.30;	vusing nded to onal. stando P-12.20 ut elev	conver o enhar ards: vations	ntional	layering methods with screens. e clarity of certain plan sheets,	2 3	See Std P-( Show Pipe S See Std P-( Show Elevat	Slope in feet 00.70 for Pro tions to 2 de	e Block & Project per foot to 4 c file Sheet Overlo cimal places der Line Layout	Comments ct Number Block Layout decimal places		
using a mo While this the use of  NOTE: For project P-02.30; P-  NOTE: Do not use  Abbreviations: LV - LEVE CO - COLO FT - FONT	odified per procedure f this pro ct related -02.31; P-0 e arrow h	n table e is re- pocess is d sheet 7.30; P-	or by commers optics s, see 08.30;	vusing nded to onal. standa P-12.20 ut elev	conversion enhanced ards:  /ations	ntional nce th	A See Std P-00.60 Line Weight	3 4	See Std P-( Show Pipe S See Std P-( Show Elevat	Slope in feet 00.70 for Pro tions to 2 de	e Block & Project per foot to 4 c file Sheet Overk cimal places	Comments  ct Number Block Layout  decimal places  lay  PR STATE OF ARIZONA  DEPARTMENT OF TRANSPORTATION	J	
using a mo While this the use of NOTE: For project P-02.30; P- NOTE: Do not use Abbreviations: LV - LEVE CO - COLO	odified per procedure f this pro ct related -02.31; P-0 e arrow h	n table e is re- pocess is d sheet 7.30; P-	or by commers optics s, see 08.30; o callor	vusing nded to onal. stando P-12.20 ut elev	ards:  /ations  ference Reference	ntional nce th  Callout ce Callou	A See Std P-00.60 Line Weight Table for Manual Construction.	3 4	See Std P-( Show Pipe S See Std P-( Show Elevat	Slope in feet 00.70 for Pro tions to 2 de	e Block & Project per foot to 4 c file Sheet Overlo cimal places der Line Layout	Comments  ct Number Block Layout  decimal places  lay  STATE OF ARIZONA  DEPARTMENT OF TRANSPORTATION  DIVISION OF HIGHWAYS  STANDARD DRAWINGS	N DRAWING N	



STD P-13.20