STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY ENGINEERING

2015
DRAFTING GUIDES

FOR USE IN

OFFICE AND FIELD

31-004

PRINTED: 1-2015

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY ENGINEERING

2015
DRAFTING GUIDES

FOR USE IN

OFFICE AND FIELD

Drawing No.	Description
P-00.01	SHEET INDEX
P-00.10	GENERAL INFORMATION
P-00.11	INTRODUCTION TO ROADWAY CADD STANDARDS
P-00.12	LEVEL AND COLOR DESIGNATIONS
P-00.40	PAVEMENT STRUCTURAL SECTION LAYOUT AND CONSTRUCTION
P-00.60	DATA TABLE & DIMENSION LAYOUT, LINE WEIGHTS & CODES
P-00.61	DETAIL FORMAT LAYOUT & LEADER LINE CONSTRUCTION
P-00.70	SHEET LAYOUT
P-00.80	CALLOUT EXAMPLES
P-01.10	SAMPLE FACE SHEET
P-02.10	SAMPLE DESIGN SHEET FOR RURAL DIVIDED HIGHWAY
P-02.20	SAMPLE DESIGN SHEET FOR RURAL UNDIVIDED ROADWAY
P-02.30	SAMPLE DESIGN SHEET WITH TYPICAL SECTION FOR AN URBANIZED AREA
P-02.52	SAMPLE TYPICAL SECTIONS FOR URBAN FREEWAY ROADWAY
P-02.53	SAMPLE DESIGN SHEET FOR URBAN FREEWAY RAMPS
P-02.54	SAMPLE DESIGN SHEET FOR URBAN SHOULDER TREATMENTS
P-02.60	SAMPLE DESIGN SHEET FOR PAVEMENT PRESERVATION PROJECT
P-02.61	SAMPLE PAVEMENT STRUCTURAL SECTIONS FOR PAVEMENT PRESERVATION PROJECT
P-03.10	SAMPLE RURAL BARRIER SUMMARY SHEET
P-03.20	SAMPLE NEW PIPE SUMMARY SHEET
P-03.25	SAMPLE CORRUGATED STEEL PIPE EXTENSION & REINFORCED CONCRETE BOX CULVERT SUMMARY SHEET

Drawing No.	Description
P-04.00	SAMPLE DETAIL SHEET WITH TABLE FOR TURNOUTS
P-04.10	SAMPLE CROSSOVER PAVING DETAIL SHEET
P-04.15	SAMPLE RAMP PAVING LIMITS DETAIL SHEET
P-04.20	SAMPLE GORE STAKING AND JOINING PLAN
P-05.10	SAMPLE CULVERT DETAIL SHEET FOR PIPE EXTENSION
P-05.25	SAMPLE CULVERT DETAIL SHEET FOR PIPE EXTENSION
P-05.30	SAMPLE CULVERT DETAIL SHEET FOR NEW CONCRETE BOX CULVERT INSTALLATION
P-05.40	SAMPLE CULVERT DETAIL SHEET FOR BOX EXTENSION
P-06.00	SAMPLE SURVEY CONTROL SHEET
P-06.10	SAMPLE GEOMETRIC SHEET FOR RURAL ROADWAY
P-06.11	SAMPLE GEOMETRIC SHEET FOR RURAL ROADWAY
P-06.12	GEOMETRIC DATA SHEET
P-07.10	SAMPLE PLAN SHEET FOR RURAL PAVEMENT PRESERVATION PROJECT
P-07.20	SAMPLE PLAN SHEET FOR RURAL UNDIVIDED ROADWAY
P-07.25	SAMPLE PLAN & PROFILE SHEET FOR RURAL UNDIVIDED ROADWAY
P-07.30	SAMPLE PLAN SHEET FOR URBANIZED AREA ROADWAY
P-07.31	SAMPLE PLAN SHEET URBAN FREEWAY ROADWAY
P-08.20	SAMPLE PROFILE SHEET FOR RURAL UNDIVIDED ROADWAY
P-08.30	SAMPLE ROADWAY PROFILE SHEET FOR URBANIZED AREA
P-12.15	SAMPLE STORM DRAIN PLAN SHEET FOR URBAN FREEWAY CROSSROAD
P-13.10	SAMPLE STORM DRAIN PROFILE FOR URBAN FREEWAY MAINLINE
P-13.15	SAMPLE STORM DRAIN PROFILE SHEET FOR URBAN FREEWAY CROSSROAD

NO. DESCRIPTION OF REVISION

NO. DESCRIPTION OF REVISION

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
SHEET INDEX		DRAWING NO. P-00.01 Sheet 1 of 1

STD P-00.01

CONTENTS

1-1 GENERAL

1-1.1 Introduction

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

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

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

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

1-1.2 Standards

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

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

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

1-2 SHEET PREPARATION

1-2.1 General

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

1-2.2 Drawing Format Order

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

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

(1) Face Sheet

(2) ADOT Standard Drawings Index

(3) Design Sheet(s) and Index
- a. Typical Section Sheet (s)
- b. Pavement Structural Section Sheet(s)

(4) Summary Sheet(s)
- a. Barrier Summary Sheet(s)
- b. New Pipe Summary Sheet(s)
- c. Pipe Extension Summary Sheet(s)
- d. Reinforced Concrete Box Culvert Summary Sheet(s)
- e. Reinforced Concrete Box Culvert Extension Summary Sheet(s)

(5) Detail Sheet(s)
- a. General Detail(s) Staking Diagrams, MSE Walls, etc.
- b. Drainage Detail(s)
- c. Turnout Detail(s)

(6) Construction Phasing Sheet(s)
- a. Sequence of Construction
- b. Detour Plan and Profile Sheet(s)

(7) Survey Control Sheet(s)

(8) Geometric Sheet(s)

(9) Removal Sheet(s)

(10) Plan and Profile Sheet(s)

(11) Traffic Interchange Sheet(s)
- a. Ramp Plan & Profile Sheet(s)
- b. Crossroad Plan & Profile Sheet(s)
- c. Paving Plan Sheet(s)
- d. Staking Plan Sheet(s)
- e. Pavement Joint Layout Sheet(s)
- f. Detour Sheet(s)

(12) Storm Drain Plan & Profile Sheet(s)

(13) Drainage Channel Sheet(s)

(14) Berm Plan and Profile Sheet(s)

(15) Traffic Sheet(s)

(16) Roadside Development Sheet(s)
- a. Stormwater Pollution Prevention Control Plan Sheet(s)
- b. Irrigation Sheet(s)
- c. Landscape Plan and Detail Sheet(s)
- d. Topsoil Excavation and Plating Sheet(s)

(17) Structural Sheet(s)

(18) Utility Sheet(s)

(19) Freeway Management Sheet(s)

1-2.3 General Drafting Practices

Text/Lettering

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

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

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

4) Abbreviations not defined in the Construction Standards or General Notes should occur only when enough space is not available for placement of the entire text.

CADD Line Work

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

1-2.4 Typical Standard Scales of Plans

Reconstruction & Widening Full Size Plan - 1"=50'

Urban Arterials Full Size Plan - 1"=20'

Details Full Size Plan - 1"=20'

Pavement Preservation Full Size Plan - 1"=100'

NO. DESCRIPTION OF REVISION

NO. DESCRIPTION OF REVISION

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
GENERAL INFORMATION		DRAWING NO. P-00.10 Sheet 1 of 1

STD P-00.10

INTRODUCTION TO ROADWAY CADD STANDARDS

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

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

CADD DATA ACCEPTANCE AND RELEASE RULES

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

RASTER DATA

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

FILE PARAMETERS

The global origin shall be located at the center of the design cube. To center the global origin, in the MicroStation key-in browser, type: go=0.0;xy=0.0|uor enter, unless otherwise directed. This is done for you if you utilize the Roadway seed files.

WORKING UNITS

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

GRAPHICS

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

REFERENCE FILES

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

SHEET FILES

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

TEXT

The following general text parameters shall be used on all sheets at scale 1"=100' unless:

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

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

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

The following fonts constitute the acceptable fonts for plan development.

Font 1 VERTICAL PROPORTIONAL
general text, headers, titles

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

Font 9 VERTICAL NON-PROPORTIONAL
tabularized text, general

Font 23 SLANTED PROPORTIONAL
general slanted text

Font 24 SLANTED NON-PROPORTIONAL
tabularized slanted text

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

Font 42 OUTLINE PROPORTIONAL
special graphics

Font 126 SYMBOL FONT
special symbols

Font 127 CHAR FAST FONT
slashed zero required in text

PLOTTING

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

SURVEY NO.

V:/ROADWAY\users\al428\

Lower-Left Corner

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN	K. BROWN	3/08		
DRAWN	R. FORTUNE	3/08		
CHECKED	J. HAVINS	3/08		
TEAM LEADER	J.C. COOPER	3/08		
ROUTE	LOCATION			SHEET OF
TRACS NO.				___ OF ___

12:48:25 PM 03/20/2008 V:\Roadway\Users\al428\training\h1234bdr.dgn

Lower-Right Corner

ARCHIVING

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

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
INTRODUCTION TO ROADWAY CADD STANDARDS		DRAWING NO. P-00.11 Sheet 1 of 1

STD P-00.11

NO. DESCRIPTION OF REVISION

NO. DESCRIPTION OF REVISION

LEVEL AND COLOR DESIGNATIONS

For Levels 1 through 63, the Color Number Shall Match the Level Number

Level 01
Grid ticks

Level 02
Spot elevations, photogrammetry and primary control points

Level 03
Section corners, center of Section, Quarter corners, range lines, photogrammetry text

Level 04
Monuments, boundaries: city, county, State, parks, forests, reservations

Level 05
Existing index contour lines and text

Level 06
Existing intermediate contour lines and text

Level 07
Existing vegetation and text

Level 08
Mapping symbols: water items and text

Level 09
Existing man-made topography: buildings, noise walls billboards, foundations, driveways, sidewalks, cattle guards, pump houses, etc.

Level 10
Text for level 09 items

Level 11
Existing utilities, railroads, standpipes, wells

Level 12
Text for level 11 items

Level 13
Existing minor drainage items: catch basins, manholes storm drains, sanitary sewers, ditches, dikes, canals, dams, gabions, headwalls, berms, pipes and pipe head-walls, end-sections, downdrains, spillways, aprons, pipe outlets, riprap, bank protection

Level 14
Text for level 13 existing minor drainage items
Text for level 22 existing major drainage items

Level 15
Existing easement and permit lines

Level 16
Existing edges of roadways, gore paving, grader roads

Level 17
Existing traffic items: cross-walks, roadway striping, signal and light poles, all signs and delineation

Level 18
Text for level 17 items

Level 19
Road names, text for level 16 items

Level 20
Existing non-surveyed roadway centerlines with tick marks

Level 21
Existing non-surveyed roadway centerline items: bearings, stationing, equations, curve data, identification for PC's, PT's, PI's

Level 22
Existing major drainage items: bridges, box culverts, CBC headwalls, retaining walls, major channels, structural plate pipes, tunnels

Level 23
Existing channelization items: curbs, guardrails, impact attenuators, concrete barriers (median and half), barricades, chain-link cable barriers

Level 24
Text for level 23 items

Level 25
North arrow, milepost markers, roadway dimensions, match lines and other miscellaneous items

Level 26
All miscellaneous surveyed centerlines: survey, office, etc.
Miscellaneous centerline items: bearings, stationing, equations, curve data, identifications for PC's, PT's and PI's

Level 27
New construction centerline with tick marks, centerline stationing

Level 28
New construction centerline items: bearings, curve data, equations, identification for PC's, PT's, and PI's

Level 29
Existing fences, Right-of-Way markers and lines

Level 30
New fences, Right-of-Way markers and lines, new temporary construction easements

Level 31
Existing access control

Level 32
New access control

Level 33
No designation

Level 34
No designation

Level 35
New edges of pavement, turnouts, grader roads, sawcuts

Level 36
Text for level 35 items

Level 37
New intermediate and index contour lines, new cut and fill lines

Level 38
New minor drainage items: catch basins, manholes, storm drains, sanitary sewers, ditches, dikes, canals, dams, gabions, headwalls, end-sections, berms, downdrains, spillways, pipe outlets, aprons, pipes, riprap, bank protection, embankment curb

Level 39
Text for level 38 items (new minor drainage items)
Text for level 48 items (new major drainage items)

Level 40
New utilities, railroads, standpipes, wells

Level 41
Text for level 40 items

Level 42
New miscellaneous items (hazards): cattle guards concrete barriers (median and half), impact attenuators, guardrail, barricades, block fences, chain-link cable barriers, noise walls, privacy walls

Level 43
Text for level 42 items

Level 44
New miscellaneous items (roadway edges), gore paving curbs, sidewalks, driveways, roadway shoulders, buildings

Level 45
Text for level 44 items

Level 46
New striping items (pavement markings)

Level 47
text for level 46 items

Level 48
New major drainage items: bridges, box culverts, tunnels, retaining walls, pump houses, major channels, structural plate pipes

Level 49
new light poles

Level 50
New pull-boxes and conduits, new drainage easements

Level 51
Text for level 49 and level 50 items

Level 52
new signals

Level 53
Text for level 52 items

Level 54
New signs

Level 55
Landscape details

Level 56
Text for level 55 items

Level 57
Irrigation details

Level 58
Text for level 57 items

Level 59
All area patterning and shading, existing earth

Level 60
Standard grid - profile sheet (1 inch)

Level 61
Standard grid - profile sheet (intermediate)

Level 62
Plan sheet text nodes and text for level 59 items

Level 63
Plan sheet border

NEW LEVELS

For New Levels, the Color Number Does Not Match the Level Number

Level 301
RDWY - Sawcut lines

Level 302
RDWY - Text for level 301

Level 303
RDWY - InRoads Reference Line (no plot)

Level 304
RDWY - Text for level 303 (no plot)

Level 364
RDWY - New fences not on new R/W line

NO. | DESCRIPTION OF REVISION

NO. | DESCRIPTION OF REVISION

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
LEVEL AND COLOR DESIGNATIONS		DRAWING NO. P-00.12 Sheet 1 of 1

STD P-00.12

PAGE LEFT INTENTIONALLY BLANK

NO.	DESCRIPTION OF REVISION

NO.	DESCRIPTION OF REVISION

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
		DRAWING NO.

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	18	23	17.5	4	8.75	LB	
2	54	1	22	6	11	CB	
3	18	23	17.5	4	8.75	CB	
4	18	23	15	2	7.5	LB	

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments
1	◑	1	0	◑ Dimension, Extension or Leader Line & Line Terminator LV/CO shall match the LV/CO of the text placed for that item
2	17	3	0	
3	17	1	0	

USER NOTES

Reference No. ▽	Comments
1	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

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

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

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

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

PAVEMENT STRUCTURAL SECTION
LAYOUT & CONSTRUCTION

DRAWING NO.
P-00.40
Sheet 1 of 2

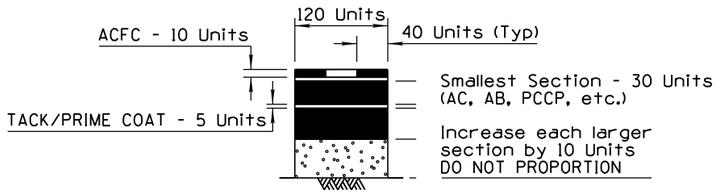
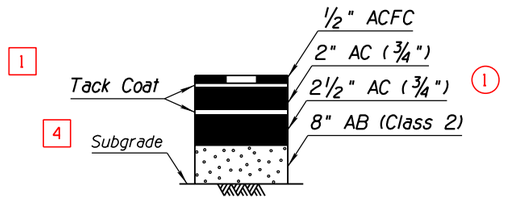
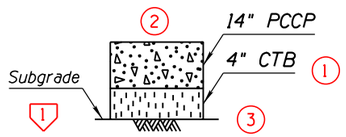


FIGURE A



3 Total Thickness = 13"

SECTION NO. 1 2



Total Thickness = 18"

SECTION NO. 3

DRAFTING NOTES

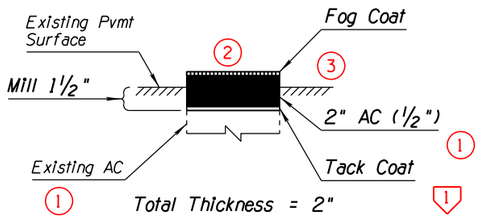
a) Pavement structural sections for AC should be filled in by placing a shape with an opaque area fill. This will produce a blackened shape when plotted.

b) 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.

c) The note " Pavement lift thickness is 'nominal' ", when applicable, should be placed in the General Notes on the design sheet.

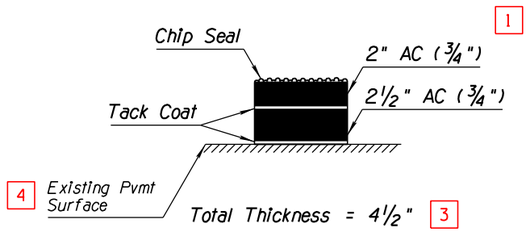
d) If the AC removal is to be a known milling operation, the callout should be "Mill". Otherwise, the callout should be "Remove".

e) Symbols for bases and subbases, such as AB and CTB, are created by randomly placing the respective cell as shown in Sections No. 1 and 3.



Total Thickness = 2"

SECTION NO. 2



Total Thickness = 4 1/2" 3

SECTION NO. 4

PAVEMENT STRUCTURAL SECTIONS

2

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
PAVEMENT STRUCTURAL SECTION LAYOUT & CONSTRUCTION		DRAWING NO. P-00.40 Sheet 2 of 2

STD P-00.40

NO. DESCRIPTION OF REVISION

NO. DESCRIPTION OF REVISION

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	58	1	22	6	11	CC	
2	58	23	17.5	4	12.5	LB	
3	58	23	17.5	4	8.75	CB	
4	58	23	17.5	4	-	LB	

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments
1	57	5	0	
2	57	3	0	
3	57	2	0	

USER NOTES

Reference No. ▽	Comments

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

DATA TABLE & DIMENSION LAYOUT
LINE WEIGHTS & CODES

DRAWING NO.
P-00.60
Sheet 1 of 2

50 Units

EARTHWORK QUANTITIES [1]	
Roadway Excavation	*CY*
Shrink	*CY*
Drainage Excavation [2]	*CY*
Shrink	*CY*
Structural Excavation	*CY*
Shrink	*CY*
Channel Excavation	*CY*
Shrink	*CY*
Borrow (In Place)	*CY*
No Shrink or Swell Applied	
Pipe Backfill	*CY*
Structure Backfill	*CY*
Embankment (Incl Gnd Comp)	*CY*
Waste	*CY*

As Required

10 Units

50 Units

60 Units

40 Units (Typ)

EARTHWORK FACTORS [3]				
Station			*Shrink/Swell*	*Ground Compaction*
[4] +	*to*	+	*% Shrink*	*0.* '
+	*to*	+	*% Shrink*	*0.* '
+	*to*	+	*% Shrink*	*0.* '
+	*to*	+	*% Shrink*	*0.* '
+	*to*	+	*% Shrink*	*0.* '

50 Units

71.25 Units

50 Units

LOOP DETECTOR / CLASSIFIER SYSTEMS		
Std T.S. 6-1 Type C = Traffic Counter		
Std T.S. 6-2 Type SA or SB = Speed and Vehicle Class		
Systems	*Type*	*Approximate Location*
		Sta + */ MP* .
		Sta + */ MP* .
		Sta + */ MP* .
		Sta + */ MP* .

40 Units (Typ)

50 Units

50 Units

SOIL VALUES					
Station	*ph*	*Resistivity*	*Station*	*ph*	*Resistivity*
+	.		+	.	
+	.		+	.	
+	.		+	.	
+	.		+	.	
+	.		+	.	
+	.		+	.	
+	.		+	.	

40 Units (Typ)

DATA TABLE LAYOUT & CONSTRUCTION

45 Units

TITLE

45 Units

SUBTITLE

1½ Text Height

TEXT

TEXT

50 Units

TITLE

TEXT

WITHOUT DATA TABLE

45 Units

TEXT

50 Units

TITLE

TITLE

TYPICAL TITLE TEXT LAYOUT

½ Text Height

TEXT

TEXT

ALL NOTES AND TEXT

NEW TEXT = 17.5 Units
EXISTING TEXT = 15.0 Units

17.5 Units

The pavement shoulders shall be treated with a rumble strip. See Traffic sheets.

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

LINE SPACING BETWEEN NOTES

CADD WT	
0	———
1	———
2	———
3	———
4	———
5	———
6	———
7	———

LINE WEIGHT TABLE

90°

180°

0°

270°

All angular references are based on 0° to the right increasing counterclockwise

ANGLE REFERENCE

10 Units

10 Units

40 Units Minimum

60 Units Desirable

30 Units

Object Line

DIMENSION LAYOUT

LC	
0	———
1	·····
2	– – – –
3	– – – – –
4	–·–·–·–
5	·····
6	–·–·–·–
7	–·–·–·–

LINE CODE TABLE

NO.	DESCRIPTION OF REVISION

NO.	DESCRIPTION OF REVISION

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
	DATA TABLE & DIMENSION LAYOUT LINE WEIGHTS & CODES	DRAWING NO. P-00.60 Sheet 2 of 2

STD P-00.60

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	54	30	50	0	-	LB	
2	54	30	100	0	-	LB	
3	54	1	22	6	11	CB	
4	54	1	15	4	-	CB	
5	14	1	15	2	-	CB	
6	39	1	17.5	4	-	CB	

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments

USER NOTES

Reference No. ▽	Comments
1	Insert additional characters in the data field utilizing the Word Prosessor

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

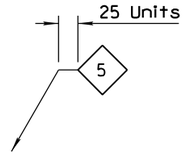
APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

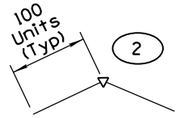
REV.

DETAIL FORMAT LAYOUT
AND LEADER LINE CONSTRUCTION

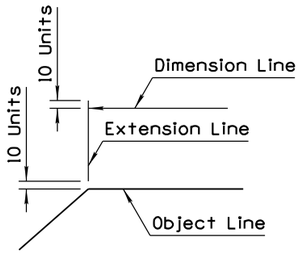
DRAWING NO.
P-00.61
Sheet 1 of 2

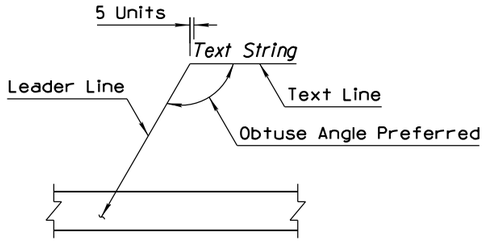


The Shape of The Symbol May Vary Depending Upon The Item Specified

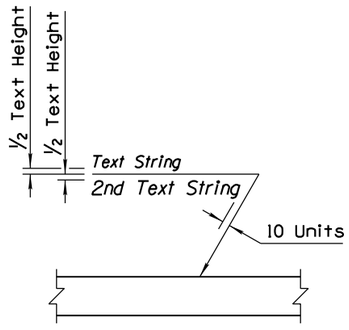


The Length May Vary Depending Upon The Curve Radius. 100 Units Is Recommended Where Practical

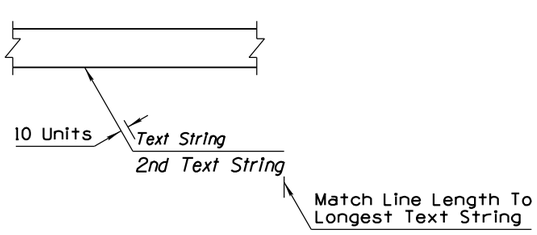


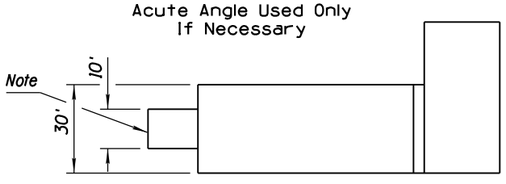


The Angle of Leader Lines Should Remain Constant Throughout the Sheet, However it is Acceptable to Adjust the Angle to Avoid Breaking the Line or Going Through an Item

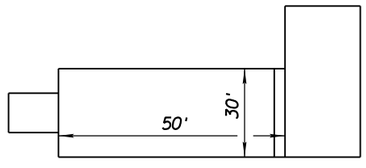


Acute Angle Used Only If Necessary

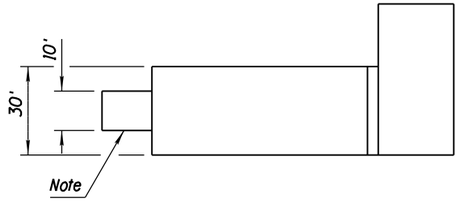




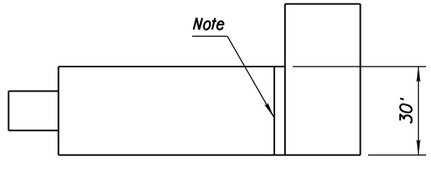
Break Leader & Extension Lines When Crossing Dimension Lines



Break Dimension Lines That Cross (Preferred Method Is To Not Dimension Within Object Boundaries)



Break Extension Lines When Crossing Leader Lines



Do Not Break Object Line For Leader or Extension Line Crossing

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

1 DETAIL B 2

3 Cell Origin

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION
DESIGN			
DRAWN			

1 DETAIL B 2

Sheet 1 of 2 4

MODIFIED CURB AND GUTTER

Cell Origin

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION
DESIGN			
DRAWN			
CHECKED			
TEAM LEADER			
ROUTE	LOCATION		SHEET OF
TRACS NO.			___ OF ___

25 Units

25 Units

DETAIL B

Sheet 1 of 2

MODIFIED CURB AND GUTTER

Cell Origin

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION
DESIGN			
DRAWN			
CHECKED			
TEAM LEADER			
ROUTE	LOCATION		SHEET OF
TRACS NO.			___ OF ___

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
	DETAIL FORMAT LAYOUT AND LEADER LINE CONSTRUCTION	DRAWING NO. P-00.61 Sheet 2 of 2

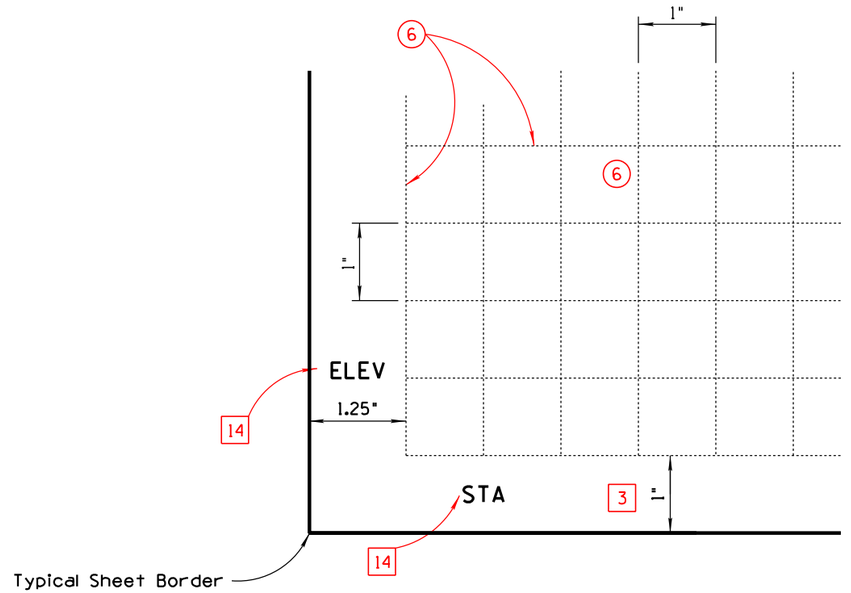
STD P-00.61

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	63	1	10/7	2	-	LC	
2	62	1	10	2	-	LC	Use data fields supplied with cell
3	63	1	13/11	3	7	CC	
4	63	7	20	1	-	CC	
5	62	1	15	4	10	CC	Use data fields supplied with cell
6	63	1	7	1	-	CC	
7	63	1	10	2	-	LC	
8	62	1	15	4	-	LC	Use data fields supplied with cell
9	63	23	20	4	-	CC	
10	63	1	8	2	-	CC	
11	62	1	15	3	-	CC	Use data fields supplied with cell
12	62	1	15/13.5	3	-	CC	Use data fields supplied with cell
13	62	1	8	1	-	LC	Use data fields supplied with cell
14	62	1	20	6	-	CC	Use data fields supplied with cell

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	
1	63	5	0	
2	63	0	0	
3	63	2	0	
4	63	1	0	
5	63	1	0	
6	60	1	1	



PROFILE SHEET OVERLAY 4

USER NOTES

Reference No. ▽	Comments
1	ADOT Prefix Number (Route, County & Milepost, for ex: 087 GI 202)
2	When using cell, the project number (for ex: F-035-1(8)) may require a reduction in text size
3	Optional initial area
4	To place grid overlay, place cell origin at center of plan sheet
5	Registrant Seal
6	Sheet Description
7	County Number after job has gone to bid
8	Project Number
9	Total of sheets filed after job has gone to bid
10	Use these text fields to sequence each sheet as shown in the INDEX OF SHEETS.

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

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

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

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

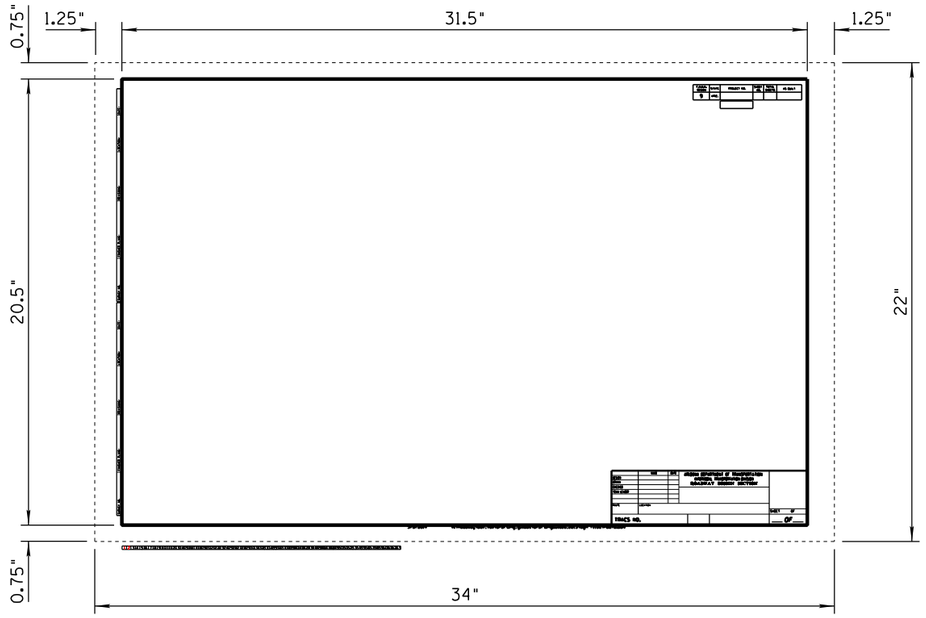
REV.

SHEET LAYOUT

DRAWING NO.
P-00.70
Sheet 1 of 2

NO. DESCRIPTION OF REVISION

NO. DESCRIPTION OF REVISION



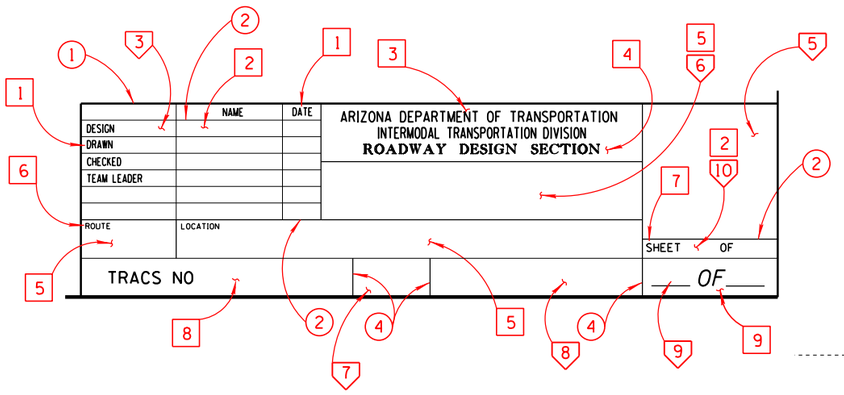
STANDARD PLAN SHEET

Consultant's Logo

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

NOTE: Use same text parameters as shown below.

CONSULTANT VERSION

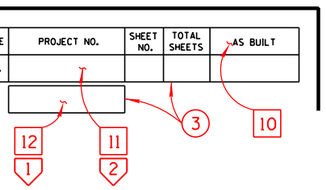


	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN				
CHECKED				
TEAM LEADER				
ROUTE	LOCATION			SHEET OF
TRACS NO.				___ OF ___

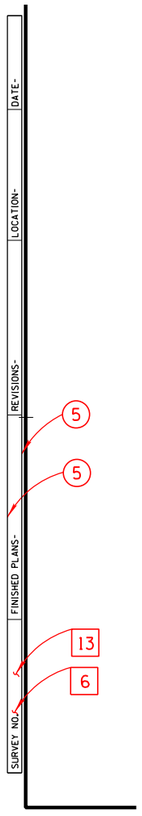
TITLE BLOCK LAYOUT
Lower-Right Corner

ROADWAY DESIGN VERSION

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



PROJECT NUMBER BLOCK LAYOUT
Upper-Right Corner



REVISION & SURVEY BLOCK LAYOUT
Lower-Left Corner

DESCRIPTION OF REVISION
NO.

DESCRIPTION OF REVISION
NO.

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
SHEET LAYOUT		DRAWING NO. P-00.70 Sheet 2 of 2

STD P-00.70

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	-	23	17.5	4	8.75	-	Level, Color and Text Justification is dependant on feature being placed.
2	-	23	15	2	7.5	-	Level, Color and Text Justification is dependant on feature being placed.

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments
1	◑	1	0	◑ Dimension, Extension or Leader Line & Line Terminator LV/CO shall match the LV/CO of the text placed for that item

USER NOTES

Reference No. ▽	Comments
1	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

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

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

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

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

CALLOUTS

DRAWING NO.
P-00.80
Sheet 1 of 2

PLAN CALLOUTS SHALL FOLLOW THE GENERAL OUTLINE AS INDICATED BELOW

CALLOUT FOR EXISTING ITEMS TO REMAIN

Rt Sta 8754+05 to 8757+41 [2]
337 Lin Ft Exst Modified Game Fence
To Remain [1]

CALLOUT FOR EXISTING ITEMS THAT REQUIRE ACTION

Rt Sta 8754+05 to 8757+41
337 Lin Ft Exst Modified Game Fence
(1) Remove [1]
1

CALLOUT FOR EXISTING ITEMS THAT REQUIRE PARTIAL REMOVE / REPLACE STATION TO STATION (STATION RANGE)

45' Rt Sta 2+45 to [2]
35' Rt Sta 2+55
14 Lin Ft Exst Chain Link Fence
Remove
42' Rt Sta 2+47 to
35' Rt Sta 2+55
11 Lin Ft New 48" Chain Line Fence, Type 1 [1]
Std C-12.20

MISCELLANEOUS EXAMPLES OF CALLOUTS FOR EXISTING ITEMS

(1) Existing R/W
Exst EP [2]
1
Existing Fiber Optic
Telephone Line

MISCELLANEOUS EXAMPLES OF CALLOUTS FOR LABELS AND GENERAL ITEMS

Woods Rd Cst ℄ Sta 123+65 *
New Channel Rt [1]
Detail E
28th Street Survey ℄ *
1 (1)
50' R (Typ)
Survey & Construction ℄ [1]

CALLOUT FOR NEW ITEMS STATION TO STATION (STATION RANGE)

Lt Sta 8754+00 to 8767+80
1,380 Lin Ft New Curb & Gutter
[1] Type D, h=6"
Std C-05.10

CALLOUT FOR NEW ITEMS SINGLE POINT LOCATION

43' Lt Sta 8754+05
New Sidewalk Ramp
Type A
Std C-05.30
Detail C
1 (1)

NOTES:

* Route designations or road names should only be used as needed for clarification.

Dimensions of Dikes shall be shown as Top Width X Height X Length Slope (10:1, 4:1, etc) and Quantity. (See appropriate Construction Standards) For Berms, note only the dimentions required per the applicable standard.

Dimensions of Ditches shall be shown as Bottom Width X Depth X Length Slope (10:1, 4:1, etc) and Drainage Ex (CY). (See appropriate Construction Standards)

FOR ALL TEXT HEIGHTS, LEVELS, COLORS AND LINE WEIGHTS SEE APPROPRIATE DRAFTING GUIDELINES

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
CALLOUT EXAMPLES		DRAWING NO. P-00.80 Sheet 2 of 2

STD P-00.80

NO. DESCRIPTION OF REVISION

NO. DESCRIPTION OF REVISION

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	61	23	17.5	4	8.75	RC	
2	61	23	17.5	4	8.75	CB	

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments
1	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item

USER NOTES

Reference No. ▽	Comments
1	Face Sheet creation is available from the ADOT Roadway Design MicroStation menu

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

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

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

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

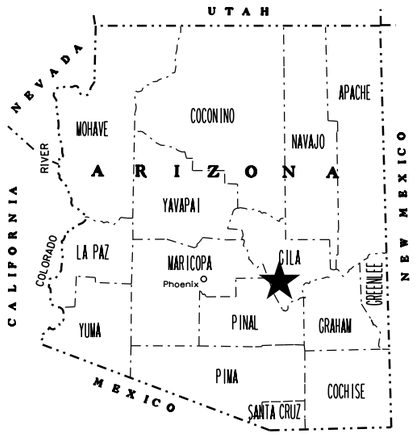
APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE FACE SHEET

DRAWING NO.
P-01.10
Sheet 1 of 2



STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION

ADOT

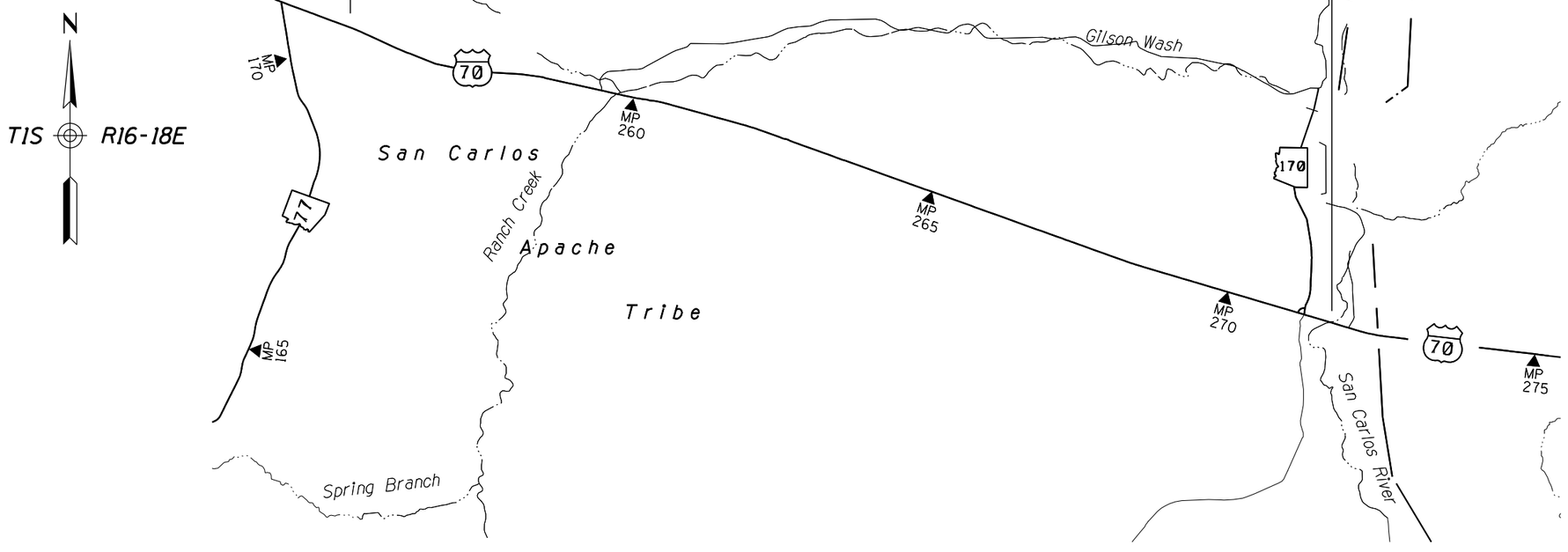
PROJECT PLANS

STATE HIGHWAY
HIGHWAY NAME 1
ROUTE LABEL

TYPE OF PROJECT, DESCRIPTION

1 PROJECT LIMIT (Mile Post) — 1 PROJECT LIMIT (Mile Post) 1

2



Constructed by:

Construction Company

Completion Date

Red-Lines by:

Construction Administrator Name & Company

Completion Date

As-Built by:

As-Built Designer Name & Company

Completion Date

PROJECT LOCATION
PROJECT NUMBER
ADOT PREFIX

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
JENNIFER TOTH, P.E., STATE ENGINEER

AS BUILT DATA	AS BUILT DATE	____ OF ____

STD P-01.10

CADD TEXT PARAMETERS

Reference No. [ ]	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
[1]	55	23	17.5	4	12.5	LB	TJ is LB unless otherwise shown
[2]	55	23	17.5	4	8.75	LB	Line spacing between notes shall be 17.5 units
[3]	54	1	22	6	-	CB	
[4]	55	1	17.5	4	-	CB	

GRAPHIC PARAMETERS

Reference No. ◯	LV/CO=	WT=	LC=	Comments

NOTE : For project related sheets, see Standards P-02.15 & P-06.10

NOTE : Design Data, Index of Sheets, Mid-point of Project, and General Notes are to be positioned as shown

USER NOTES

Reference No. ▽	Comments
1	See Std P-00.70 for Title Block & Project Number Block Layout
2	See Std P-00.60 for Data Table Layout & Construction
3	See Std P-00.60 for Text Layout

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

[ ] - Text Reference Callout
◯ - Graphic Reference Callout
▽ - User Note Reference Callout

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE DESIGN SHEET FOR RURAL DIVIDED ROADWAY

DRAWING NO.
P-02.10
Sheet 1 of 2

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PROJ. NUMBER			
		RT CO MP			

MIDPOINT OF PROJECT

Central Zone
State Plane Coordinates

X=140,000
Y=1,090,000

DESIGN DATA

2010 AADT = 7,350
2020 AADT = 14,350
Design Speed = 60 MPH

LENGTH OF PROJECT

SOUTHBOUND

Sta 1442+00.00 to 1539+55.34 Bk = 9,755.34'
Sta 1540+03.52 Ahd to 1627+68.35 Bk = 8,764.83'
Sta 124+88.79 Ahd to 180+68.51 = 5,579.72'
Gross & Net Length = 24,099.89' - 4.56 Miles
Mile Post 231.02 to 235.58

NORTHBOUND

Sta 1441+84.36 to 1539+91.87 Bk = 9,807.51'
Sta 1540+03.52 Ahd to 1642+24.97 Bk = 10,221.45'
Sta 135+39.21 Ahd to 193+05.10 = 5,765.89'
Gross & Net Length = 25,794.85' - 4.89 Miles
Mile Post 231.29 to 236.18

INDEX OF SHEETS

Sheet No.	Sheet Type
1	Face Sheet
1A-1D	ADOT Standard Drawings
2-3	Design Sheets
4	Barrier Summary Sheet
5-6	New Pipe Summary Sheets
7	Pipe Ext Summary Sheet
8	Box Culvert Summary Sheet
9-16	Construction Phasing Sheets
17-42	Detail Sheets
43-74	Culvert Detail Sheets
75	Geometric Sheet
76-96	Plan & Profile Sheets
97-143	Traffic Sheets
144-190	Structure Sheets

LOOP DETECTOR / CLASSIFIER SYSTEMS

Std T.S. 6-1 Type C = Traffic Counter
Std T.S. 6-2 Type SA or SB = Speed and Vehicle Class

Systems	Type	Approximate Location
1	C	NB Sta 1539+20 / MP 233.13
1	C	SB Sta 1505+55 / MP 232.22

EARTHWORK QUANTITIES

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

EARTHWORK FACTORS

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

CUT SLOPE EXCEPTION TABLE

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

Note to Designer: Any Exception Other Than Slope Change on the Back Slope will need to have a Detail Showing the Intent of Daylights, Hold First Intercept, Hold Second Intercept, etc.

FILL SLOPE EXCEPTION TABLE

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

SOIL VALUES

Station	pH	Resistivity	Station	pH	Resistivity
SB 1442+25	8.0	520	NB 1442+43	7.2	800
SB 1482+50	7.4	820	NB 1496+25	8.0	760
SB 1495+00	7.4	520	NB 1530+32	7.4	1280
SB 1517+30	7.6	580	NB 1546+11	7.2	1000
SB 1536+22	7.3	600	NB 1640+05	7.3	680

GENERAL NOTES

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

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

The pavement shoulders shall be treated with a rumble strip. See Traffic sheets.

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

Survey Monuments in median must not be disturbed.

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

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

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

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

The average project elevation is 4,500'.

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN				
CHECKED			DESIGN SHEET	
TEAM LEADER				
ROUTE SR 00	LOCATION PROJECT LOCATION			SHEET 2 OF 2
TRACS NO. H0000 01C		PROJECT NUMBER		___ OF ___

STD P-02.10

DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

CADD TEXT PARAMETERS

Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	55	23	17.5	4	12.5	CB	TJ is CB unless otherwise shown
2	55	23	17.5	4	8.75	LB	Line spacing between notes shall be 17.5 units
3	21	23	17.5	4	8.75	CB	TJ is CB unless otherwise shown
4	54	1	22	6	11	CB	
5	55	1	17.5	4	12.5	CB	
6	18	23	17.5	4	8.75	LB	
7	25	23	17.5	4	8.75	CB	
8	18	23	17.5	4	8.75	CB	

GRAPHIC PARAMETERS

Reference No.	LV/CO=	WT=	LC=	Comments
1	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
2	20	3	0	
3	59	1	5	
4	-	-	-	ADOT Standard Line Terminator; typical. LV/CO shall match the LV/CO of the text placed for that item

NOTE : For project related sheets, see Standards P-07.20, P-07.21 & P-08.20

USER NOTES

Reference No.	Comments
1	See Std P-00.40 for Pavement Structural Section Layout & Construction
2	See Std P-00.60 for Data Table Layout & Construction
3	Show roadway cross slope in feet per foot to 3 decimal places
4	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

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

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

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

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE DESIGN SHEET FOR
RURAL UNDIVIDED ROADWAY

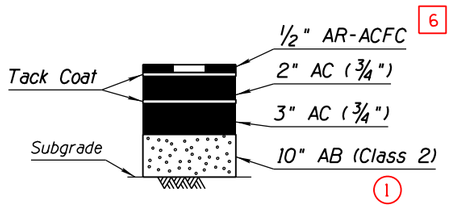
DRAWING NO.
P-02.20
Sheet 1 of 2

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PROJ. NUMBER			
		RT CO MP			

4 MIDPOINT OF PROJECT

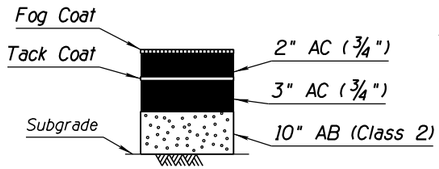
Western Zone
5 State Plane Coordinates

X=298,000
Y=840,000



Total Thickness = 15 1/2" 8

SECTION NO. 1



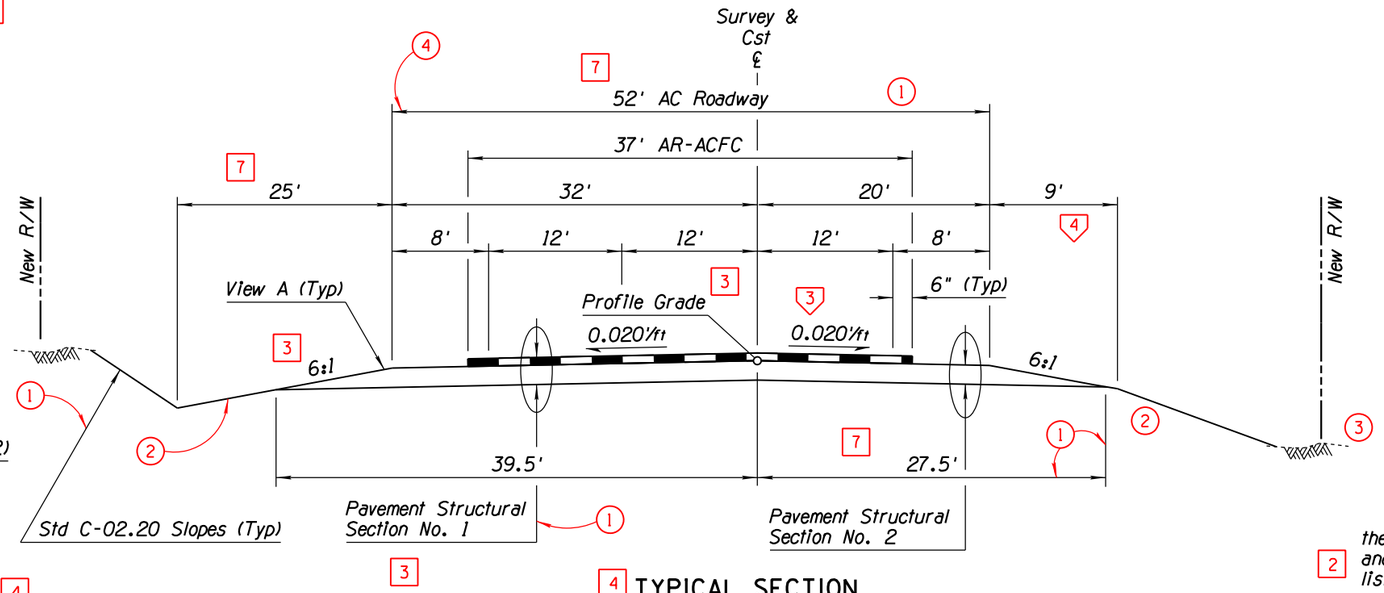
Total Thickness = 15"

SECTION NO. 2

PAVEMENT STRUCTURAL SECTIONS 4 1

4 DESIGN DATA

1 2010 AADT = 2,900
2020 AADT = 5,400
Design Speed = 60 MPH



4 TYPICAL SECTION

4 LENGTH OF PROJECT

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

4 INDEX OF SHEETS

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

4 GENERAL NOTES

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

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

The pavement shoulders shall be treated with a rumble strip. See Traffic sheets.

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

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

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

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

The average project elevation is 4,500'.

2

EARTHWORK QUANTITIES

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

EARTHWORK FACTORS

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

2

SOIL VALUES

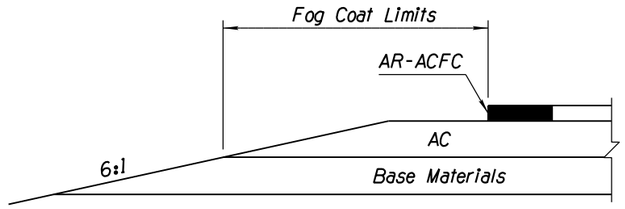
Station	pH	Resistivity
395+10	7.3	2240
398+60	7.2	800
409+60	7.4	480
438+80	7.2	780
442+15	7.4	740
451+50	7.3	520
465+25	7.2	310
510+15	7.2	420

2

LOOP DETECTOR / CLASSIFIER SYSTEMS

Std T.S. 6-1 Type C = Traffic Counter
Std T.S. 6-2 Type SA or SB = Speed and Vehicle Class

Systems	Type	Approximate Location
1	C	Sta 396+00 / MP 125.38
1	C	Sta 439+00 / MP 126.19



FOG COAT APPLICATION
VIEW A

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN				
CHECKED			DESIGN SHEET	
TEAM LEADER				
ROUTE SR 00	LOCATION PROJECT LOCATION			SHEET 2 OF 2
TRACS NO. H0000 01C			PROJECT NUMBER	___ OF ___

STD P-02.20

DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

CADD TEXT PARAMETERS

Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	18	23	17.5	3	8.75	LB	TJ is LB unless otherwise shown
2	18	23	15	2	7.5	LB	
3	54	1	22	6	11	CB	
4	25	23	17.5	4	8.75	CB	
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	
11	18	23	17.5	4	7.5	CB	

GRAPHIC PARAMETERS

Reference No.	LV/CO=	WT=	LC=	Comments
1	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
2	59	1	5	
3	20	3	0	
4	-	-	-	ADOT Standard Line Terminator; typical. LV/CO shall match the LV/CO of the text placed for that item
5	20	1	2	

NOTE: For project related sheets, see Standards P-02.31, P-07.30, P-08.30, P-12.20, & P-13.20

USER NOTES

Reference No.	Comments
1	See Std P-00.40 for Pavement Structural Section Layout & Construction
2	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout
3	See Std P-00.60 for Text Layout

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE DESIGN SHEET
FOR AN URBANIZED AREA

DRAWING NO.
P-02.30
Sheet 1 of 2

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PROJ. NUMBER			
		RT CO MP			

DATE- | LOCATION- | REVISIONS- | FINISHED PLANS- | SURVEY NO.

REFERENCES [3]

BP-063-1-503
S-53(1) [7]

MIDPOINT OF PROJECT [3]

Western Zone
State Plane Coordinates [8]

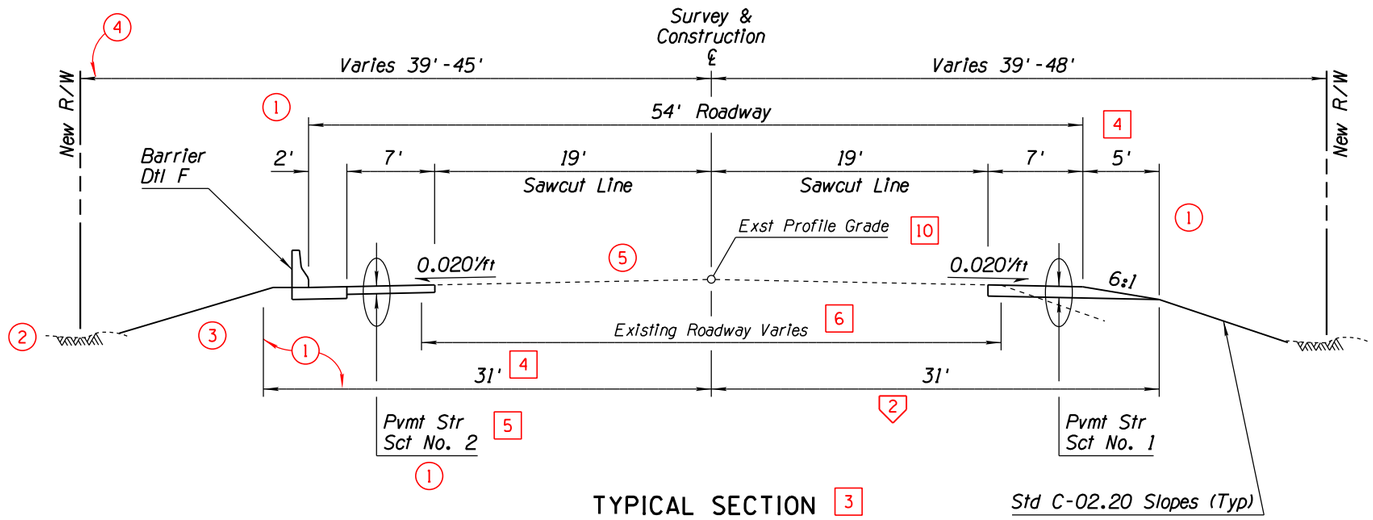
X=220,000
Y=610,000

DESIGN DATA [3]

[7] 2010 AADT = 19,900
2020 AADT = 30,000
Design Speed = 50 MPH

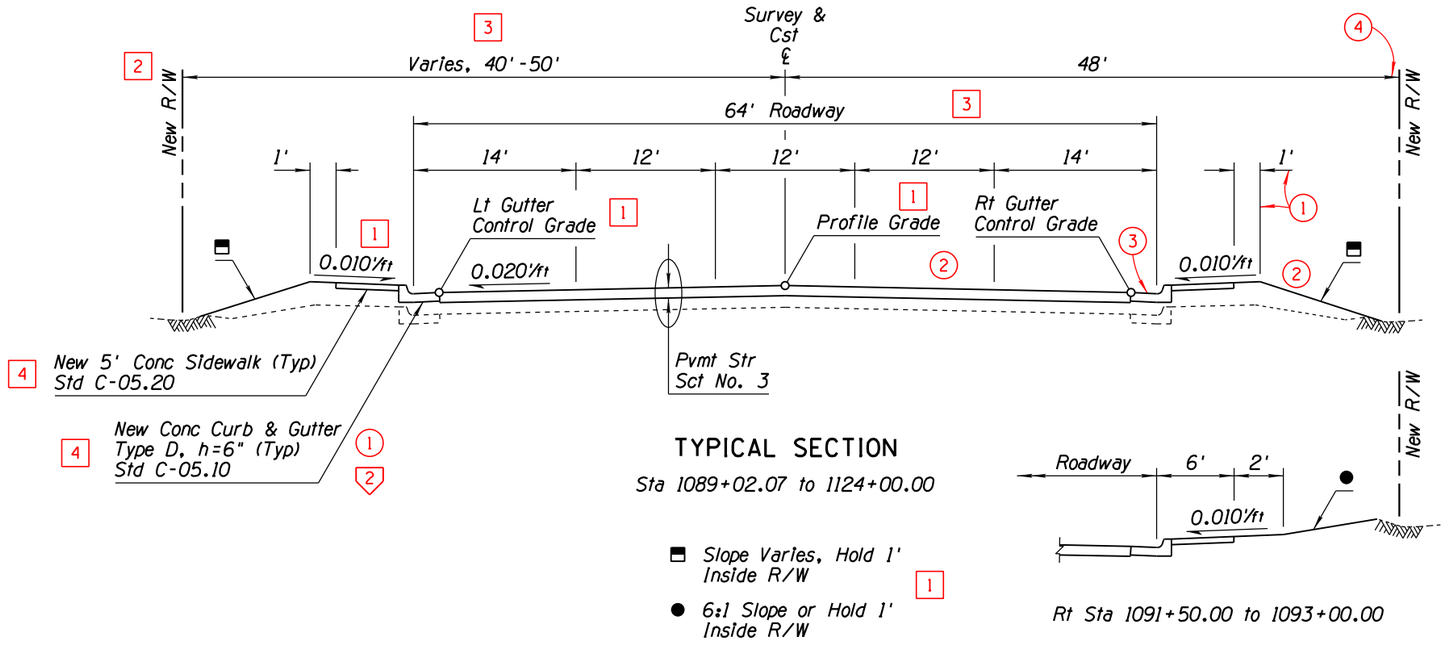
LENGTH OF PROJECT [3]

[7]
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



TYPICAL SECTION [3]

Sta 1079+00.00 to 1086+00.00
[5]



TYPICAL SECTION

Sta 1089+02.07 to 1124+00.00

Rt Sta 1091+50.00 to 1093+00.00

INDEX OF SHEETS [3]

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

GENERAL NOTES [3]

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

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

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

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

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

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

The average project elevation is 4,750'.

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN				
CHECKED			DESIGN SHEET	
TEAM LEADER				
ROUTE SR 00	LOCATION PROJECT LOCATION			SHEET 2 OF 2
TRACS NO. H0000 01C			PROJECT NUMBER	___ OF ___

STD P-02.30

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	30	23	17.5	4	8.75	RT	TJ is RT unless otherwise shown
2	21	23	17.5	4	8.75	CB	TJ is CB unless otherwise shown
3	54	1	22	6	11	CB	
4	39	23	17.5	4	8.75	LB	
5	25	23	17.5	4	8.75	CB	
6	45	23	17.5	4	8.75	LB	
7	39	23	17.5	4	8.75	CB	
8	43	23	17.5	4	8.75	LB	

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments
1	20	3	0	
2	59	1	5	
3	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
4	-	-	-	ADOT Standard Line Terminator; typical. LV/CO shall match the LV/CO of the text placed for that item
5	44	3	0	
6	38	3	0	
7	30	4	-	
8	42	3	0	
9	48	3	0	

NOTE: For project related sheets, see Standards P-02.51, P-02.53, & P-04.10

USER NOTES

Reference No. ▽	Comments
1	See Std P-00.61 for Leader Line Layout
2	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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

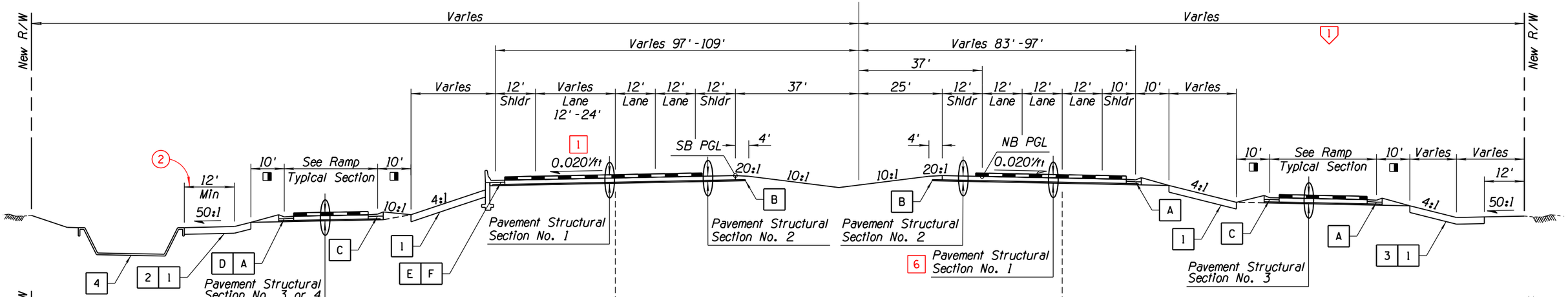
SAMPLE TYPICAL SECTIONS FOR URBAN FREEWAY ROADWAY

DRAWING NO.
P-02.52
Sheet 1 of 2

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

RT CO MP

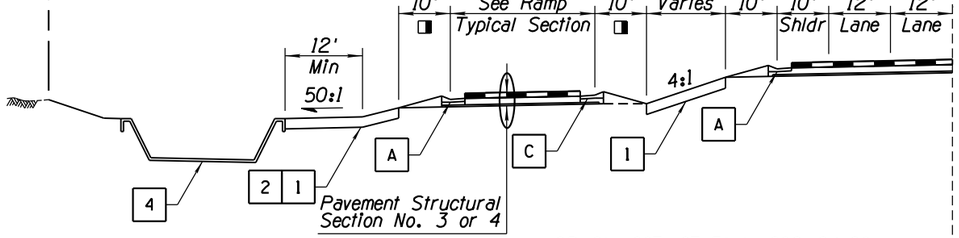
303L
Cst ℄



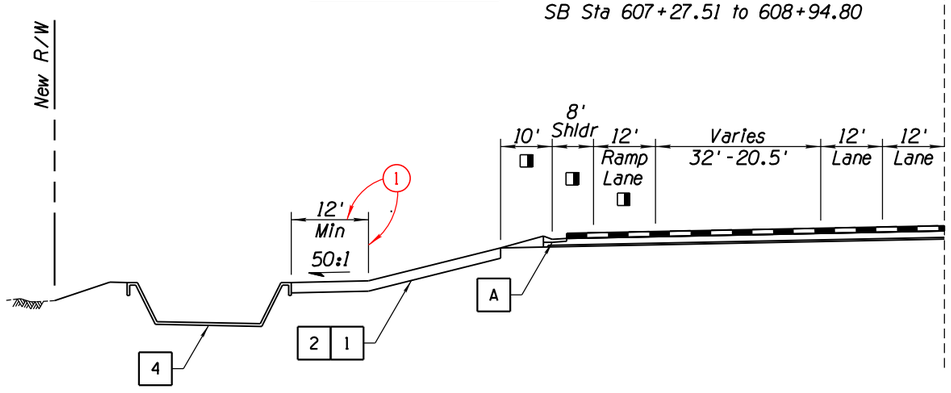
SB Sta 586+10.90 to 607+27.51
(Bridge Exception SB Sta 596+25.73 to 599+76.65)
*Retaining Wall Limits See Plans

3 TYPICAL MAINLINE SECTION
Sta 586+11.88 to 610+82.82
8

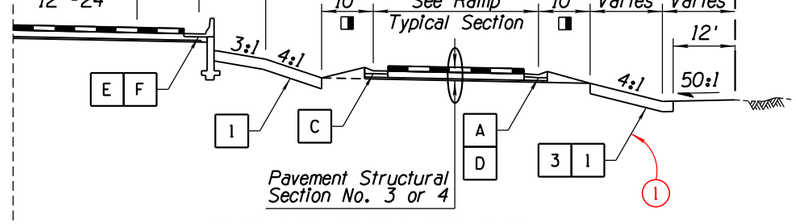
NB Sta 586+11.88 to 587+72.49



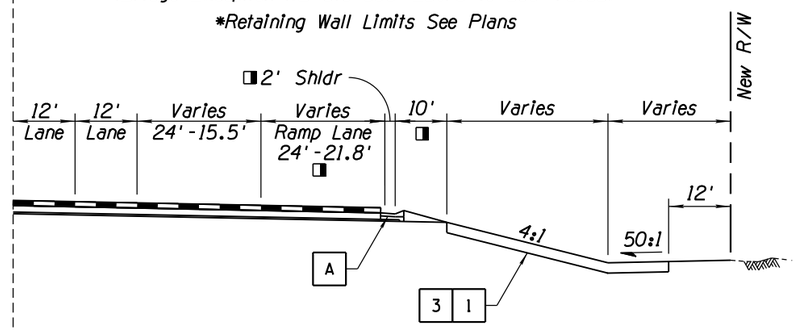
SB Sta 607+27.51 to 608+94.80



SB Sta 608+94.80 to 610+82.82



NB Sta 587+72.49 to 609+43.01
(Bridge Exception NB Sta 596+25.73 to 599+76.65)
*Retaining Wall Limits See Plans



NB Sta 609+43.01 to 610+56.26

DETAIL VIEWS

(See Corresponding Edge Treatment Detail, Sht X of X)

- A Low Side, Fill Type C Curb
- B High Side, Median Shoulder Treatment 6
- C High Side, Fill/Cut Type C-1 or D-3 Curb
- D Low Side, Cut Type B or D Curb
- E Low Side Concrete Half Barrier
- F Low Side, Concrete Half Barrier W/Retaining Wall

5

- 1 24" Thick Topsoil Plating
- 2 See Channel Infield Grading
- 3 See Finish Contour Plans for East Side Grading
- 4 See West Channel Plans

℄ Perpendicular to Ramp ℄

	NAME	DATE
DESIGN		
DRAWN		
CHECKED		
TEAM LEADER		

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY DESIGN SECTION

DESIGN SHEET

ROUTE SR 00 | LOCATION PROJECT LOCATION | SHEET 2 OF 2

TRACS NO. H0000 01C | PROJECT NUMBER | ___ OF ___

STD P-02.52

SURVEY NO. | FINISHED PLANS- | REVISIONS- | LOCATION- | DATE-

CADD TEXT PARAMETERS

Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	21	23	17.5	4	8.75	--	TJ is LB unless otherwise shown
2	25	23	17.5	4	8.75	CB	TJ is CB unless otherwise shown
3	54	1	22	6	11	CB	
4	39	23	17.5	4	8.75	LB	
5	38	1	15	4	7.5	CB	
6	45	23	17.5	4	8.75	LB	
7	43	23	17.5	4	8.75	LB	
8	54	23	17.5	4	8.75	CB	

GRAPHIC PARAMETERS

Reference No.	LV/CO=	WT=	LC=	Comments
1	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
2	-	-	-	ADOT Standard Line Terminator; typical. LV/CO shall match the LV/CO of the text placed for that item
3	20	3	0	
4	44	3	0	
5	48	3	0	
6	42	3	0	
7	59	1	5	

NOTE: For project related sheets, see Standards P-02.51, P-02.52 & P-04.10

USER NOTES

Reference No.	Comments
1	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout
2	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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

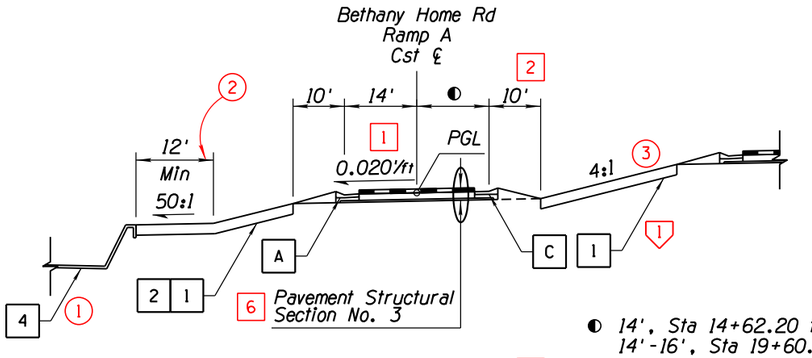
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE DESIGN SHEET FOR
URBAN FREEWAY ROADWAY

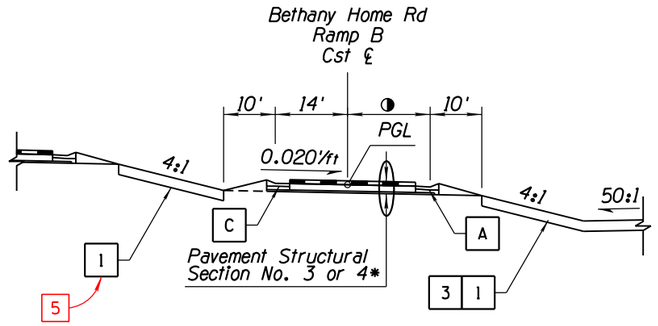
DRAWING NO.
P-02.53
Sheet 1 of 2

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PROJ. NUMBER			
RT CO MP					



◐ 14', Sta 14+62.20 to 19+60.00
14'-16', Sta 19+60.00 to 20+80.00

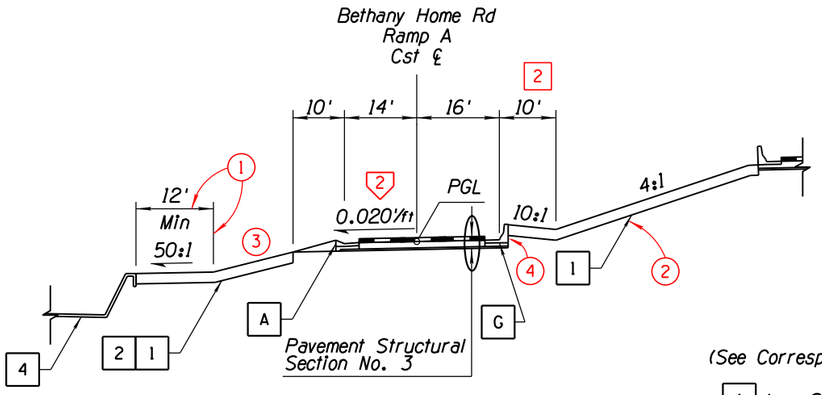
TYPICAL SECTION 3
Bethany Home Rd
Ramp A
8 Sta 14+62.20 to 20+80.00



* End AR-ACFC Application 6
at Sta 20+00.00

◑ 8', Sta 15+73.99 to 20+00.00
8'-26', Sta 20+00.00 to 23+17.62

TYPICAL SECTION
Bethany Home Rd
Ramp B
Sta 15+73.99 to 23+17.62



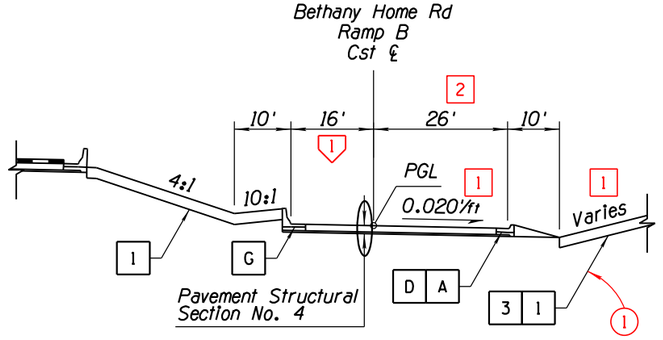
TYPICAL SECTION
Bethany Home Rd
Ramp A
Sta 20+80.00 to 27+04.46

DETAIL VIEWS

(See Corresponding Edge Treatment Detail, Sht X of X)

- A Low Side, Fill Type C Curb *
- C High Side, Fill/Cut Type C-1 or D-3 Curb *
- D Low Side, Cut Type B or D Curb * 6
- G High Side, Concrete Half Barrier *

5
- 1 24" Thick Topsoil Plating
- 2 See Channel Infield Grading
- 3 See Finish Contour Plans for East Side Grading
- 4 See West Channel Plans



TYPICAL SECTION 3
Bethany Home Rd
Ramp B
Sta 23+17.62 to 28+47.44 8

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN				
CHECKED			DESIGN SHEET	
TEAM LEADER				
ROUTE SR 00	LOCATION PROJECT LOCATION			SHEET 2 OF 2
TRACS NO. H0000 01C			PROJECT NUMBER	___ OF ___

STD P-02.53

SURVEY NO. | FINISHED PLANS- | REVISIONS- | LOCATION- | DATE-

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	21	23	17.5	4	8.75	--	TJ is LB unless otherwise shown
2	25	23	17.5	4	8.75	CB	TJ is CB unless otherwise shown
3	54	1	22	6	11	CB	

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments
1	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
2	-	-	-	ADOT Standard Line Terminator; typical. LV/CO shall match the LV/CO of the text placed for that item
3	20	3	0	
4	44	3	0	

NOTE: For project related sheets, see Standards P-02.51, P-02.52 & P-04.10

USER NOTES

Reference No. ▽	Comments
1	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

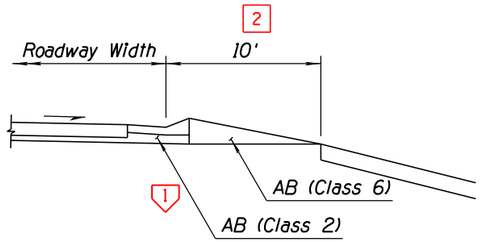
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

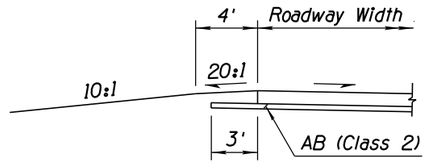
SAMPLE DESIGN SHEET FOR
URBAN FREEWAY ROADWAY

DRAWING NO.
P-02.54
Sheet 1 of 2

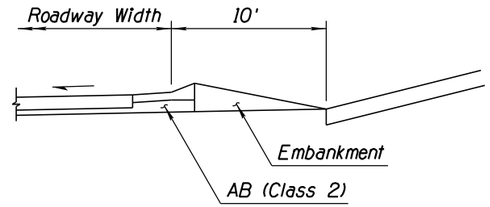
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PROJ. NUMBER			
RT CO MP					



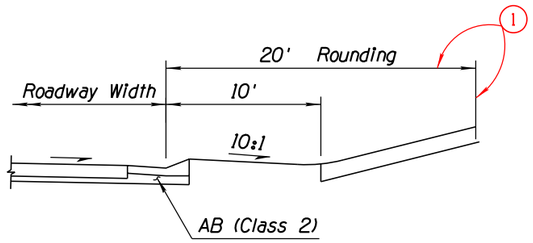
VIEW A
LOW SIDE, FILL
TYPE C CURB
MAINLINE/RAMPS



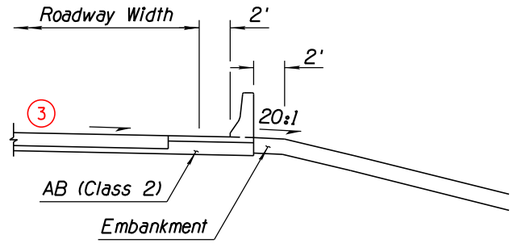
VIEW B
HIGH SIDE
MEDIAN SHOULDER TREATMENT
MAINLINE



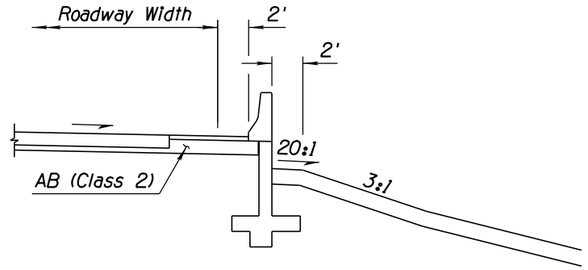
VIEW C
HIGH SIDE, FILL/CUT
TYPE C-1 OR D-3 CURB
RAMPS



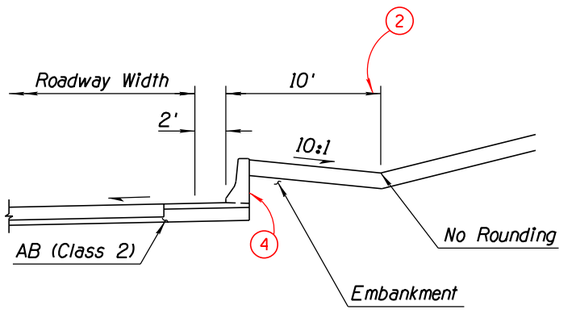
VIEW D
LOW SIDE, CUT
TYPE B OR D CURB 3
RAMPS



VIEW E
LOW SIDE
CONCRETE HALF BARRIER
MAINLINE



VIEW F
LOW SIDE
3 CONCRETE HALF BARRIER W/RETAINING WALL
MAINLINE



VIEW G
HIGH SIDE
CONCRETE HALF BARRIER
RAMPS

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN				
CHECKED				
TEAM LEADER			DESIGN SHEET	
ROUTE SR 00	LOCATION		PROJECT LOCATION	SHEET 2 OF 2
TRACS NO. H0000 01C			PROJECT NUMBER	___ OF ___

DATE-
LOCATION-
REVISIONS-
FINISHED PLANS-
SURVEY NO.

STD P-02.54

CADD TEXT PARAMETERS

Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	55	23	17.5	4	8.75	LB	
2	55	23	17.5	6	8.75	LB	Line spacing between notes shall be 17.5 units
3	21	23	17.5	4	8.75	CB	TJ is CB unless otherwise shown
4	54	1	22	6	11	CB	
5	55	1	17.5	4	12.5	CB	
6	25	23	17.5	4	8.75	LB	
7	55	23	17.5	4	12.5	CB	

GRAPHIC PARAMETERS

Reference No.	LV/CO=	WT=	LC=	Comments
1	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
2	20	1	2	
3	59	1	5	
4	-	-	-	ADOT Standard Line Terminator; typical. LV/CO shall match the LV/CO of the text placed for that item

NOTE : For project related sheets, see Standards P-07.20, P-07.21 & P-08.20

USER NOTES

Reference No.	Comments
1	See Std P-00.60 for Data Table Layout & Construction
2	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE DESIGN SHEET FOR
RURAL DIVIDED PAVEMENT PRESERVATION

DRAWING NO.
P-02.60
Sheet 1 of 2

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

RT CO MP

REFERENCES

I-40-4(55)
I-40-4(60)
I-40-4(61)
I-40-4(62)
I-40-4(81)
I-008-4(3)
040-D(015)N
IM-40-4(139)
Mile Post Log
Survey No. LS 1205

4 MIDPOINT OF PROJECT

EASTERN Zone
5 State Plane Coordinates
X =345,000
Y =1,467,000

DESIGN DATA

Location	Year 2015 AADT	Year 2025 AADT	Design Speed
MP 245.41 - MP 252.13	15,700	17,800	75 MPH
MP 252.13 - MP 253.63	16,800	19,000	75 MPH
MP 253.63 - MP 255.75	17,500	19,700	75 MPH
MP 255.75 - MP 257.70	18,800	21,200	75 MPH
MP 257.70 - MP 264.77	16,500	18,600	75 MPH

4 INDEX OF SHEETS

5 Sheet No.	Sheet Type
1	Face Sheet
1A-1C	ADOT Standard Drawings
2-6	Design Sheets
7-8	Barrier Summary Sheets
7 9-24	Detail Sheets
25	Survey Control Sheet
26-45	Plan Sheets
46-54	Traffic Control Sheets
55-76	Pavement Marking Sheets
77-80	Roadside Sheets

4 GENERAL NOTES

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

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

The pavement shoulders shall be treated with a rumble strip. See Traffic sheets.

New Right of Way is not required.
For Right of Way not shown in the plans see: 9-T-182, 9-T-189, A-9-T-200, D-3-T-292, D-3-T-567, D-9-T-237, D-9-T-323, D-9-T-241, D-9-T-241, D-9-T-256, and D-9-T-273.

Pavement lift thickness is nominal.

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

The average project elevation is 4,878'.

4 LENGTH OF PROJECT

I-40 WESTBOUND

Sta 2815+83.47	to 2959+85.46	= 14,401.99'		
1 Sta 2959+85.46	to 2960+49.26	= 63.80'	Paving Exception	
Sta 2960+49.26	to 3044+55.19	= 8,405.93'		
Sta 3044+55.19	to 3047+55.85	= 300.66'	Paving Exception	
Sta 3047+55.85	to 3070+28.95	= 2,273.10'		
Sta 3070+28.95	to 3072+72.08	= 243.13'	Paving Exception	
Sta 3072+72.08	to 3102+96.05	= 3,023.97'		
Sta 3102+96.05	to 3105+46.77	= 250.72'	Paving Exception	
Sta 3105+46.77	to 3165+32.91	= 5,986.14'		
Sta 3165+32.91	to 3175+66.97	= 1,034.06'	Paving Exception	
Sta 3175+66.97	to 3274+75.63 BK	= 9,908.66'		

Gross Length = 45,892.16' = 8.69 Miles
Net Length = 43,999.79' = 8.33 Miles

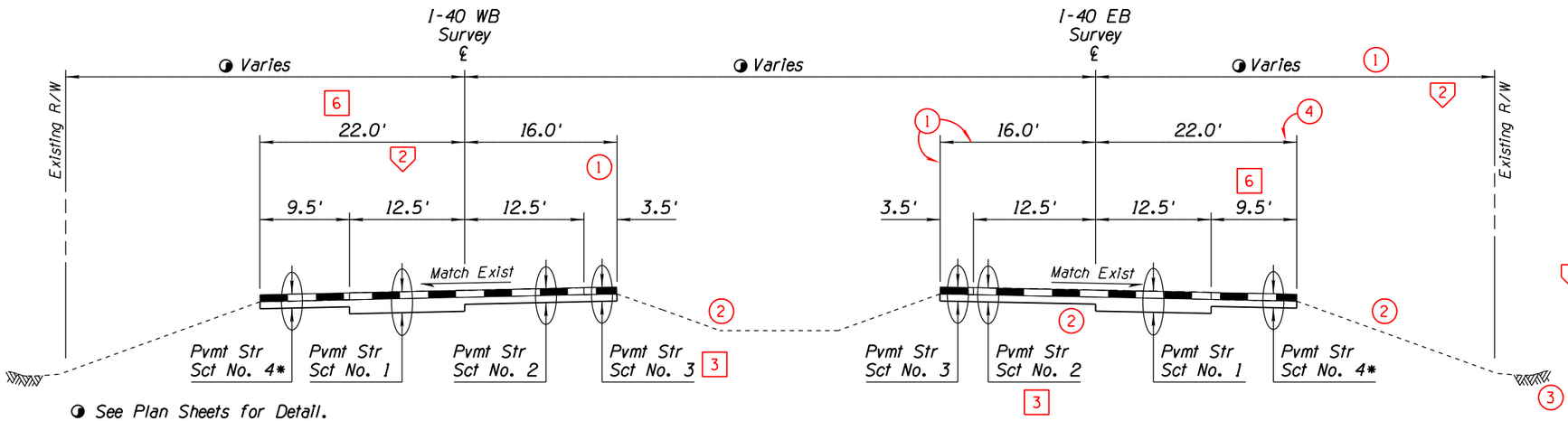
MP 250.24 to 259.00

I-40 EASTBOUND

Sta 2816+22.85	to 2960+01.42	= 14,378.57'		
Sta 2960+01.42	to 2960+65.18	= 63.76'	Paving Exception	
Sta 2960+65.18	to 3044+50.00	= 8,384.82'		
Sta 3044+50.00	to 3047+64.77	= 314.77'	Paving Exception	
Sta 3047+64.77	to 3068+92.93	= 2,128.16'		
Sta 3068+92.93	to 3071+35.57	= 242.64'	Paving Exception	
Sta 3071+35.57	to 3102+84.62	= 3,149.05'		
Sta 3102+84.62	to 3105+34.84	= 250.22'	Paving Exception	
Sta 3105+34.84	to 3165+74.73	= 6,039.89'		
Sta 3165+74.73	to 3176+08.60	= 1,033.87'	Paving Exception	
Sta 3176+08.60	to 3275+01.26 BK	= 9,892.66'		

Gross Length = 45,878.41' = 8.69 Miles
Net Length = 43,973.15' = 8.33 Miles

MP 250.24 to 259.00



◑ See Plan Sheets for Detail.
* Pavement Structural Section No. 10 at these locations.

4 TYPICAL SECTION I-40 MAINLINE

Sta 2815+83.47	to 2888+60.27	= 7,276.80'
Sta 2900+89.18	to 2923+00.61	= 2,211.43'
Sta 2927+87.87	to 2959+85.46	= 3,197.59'
Sta 2960+49.26	to 2962+48.63	= 199.37'
* Sta 3015+41.38	to 3044+55.19	= 2,913.81'
* Sta 3047+55.85	to 3070+28.95	= 2,273.10'
* Sta 3072+72.08	to 3078+96.68	= 624.60'
* Sta 3091+09.24	to 3102+96.05	= 1,186.81'
* Sta 3105+46.77	to 3108+14.62	= 267.85'
Sta 3108+14.42	to 3117+64.78	= 950.16'
Sta 3121+91.42	to 3165+32.91	= 4,341.49'
Sta 3175+66.97	to 3178+98.57	= 331.60'
Sta 3191+39.20	to 3221+94.23	= 3,055.03'
Sta 3226+44.95	to 3274+75.63 BK	= 4,830.68'

Sta 2816+22.85	to 2895+02.22	= 7,879.37'
Sta 2898+52.30	to 2921+80.02	= 2,327.72'
Sta 2934+27.01	to 2960+01.42	= 2,574.41'
Sta 2960+65.18	to 2968+83.67	= 818.49'
* Sta 3021+13.02	to 3044+50.00	= 2,336.98'
* Sta 3047+64.77	to 3068+92.93	= 2,128.16'
* Sta 3071+35.57	to 3082+65.66	= 1,130.09'
* Sta 3089+36.01	to 3102+84.62	= 1,348.61'
Sta 3105+34.84	to 3117+62.80	= 1,227.96'
1 Sta 3130+49.51	to 3165+74.73	= 3,525.22'
Sta 3176+08.60	to 3185+83.30	= 974.70'
Sta 3190+81.48	to 3223+47.53	= 3,266.05'
Sta 3235+93.42	to 3275+01.26 BK	= 3,907.84'

1

LOOP DETECTOR / CLASSIFIER SYSTEMS

Std T.S. 6-1 Type C = Traffic Counter
Std T.S. 6-2 Type SA or SB = Speed and Vehicle Class

Systems	Type	Approximate Location
1	C	EB Sta 2949+05 / MP 252.82
1	C	WB Sta 2949+16 / MP 252.82
1	C	EB Sta 3049+99 / MP 254.73
1	C	WB Sta 3050+64 / MP 254.73
1	C	EB Sta 3148+63 / MP 256.60
1	C	WB Sta 3148+45 / MP 256.60

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN				
CHECKED			DESIGN SHEET	
TEAM LEADER				
ROUTE SR 00	LOCATION PROJECT LOCATION			SHEET 2 OF 2
TRACS NO. H0000 01C			PROJECT NUMBER	___ OF ___

STD P-02.60

SURVEY NO. | FINISHED PLANS- | REVISIONS- | LOCATION- | DATE-

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	18	23	17.5	4	8.75	LB	
2	18	23	15	2	7.5	LB	
3	18	23	17.5	4	8.75	CB	
4	54	1	22	6	11	CB	

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments
1	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item

NOTE: For project related sheets, see Standards P-02.52, P-02.53, & P-04.10

USER NOTES

Reference No. ▽	Comments
1	See Std P-00.40 for Pavement Structural Section Layout & Construction
2	See Std P-00.61 for Leader Line Layout

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

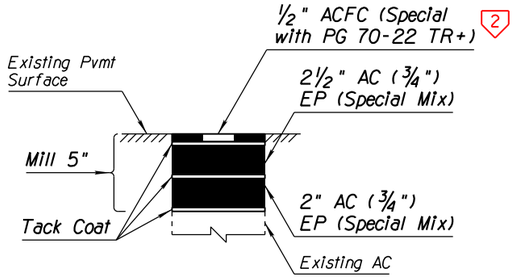
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE PAVEMENT STRUCTURAL SECTIONS FOR PAVEMENT PRESERVATION

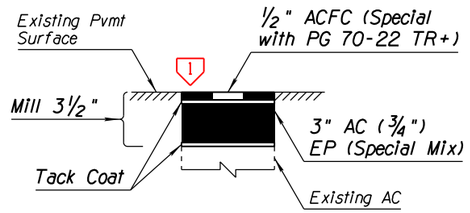
DRAWING NO.
P-02.61
Sheet 1 of 2

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PROJ. NUMBER			
		RT CO MP			



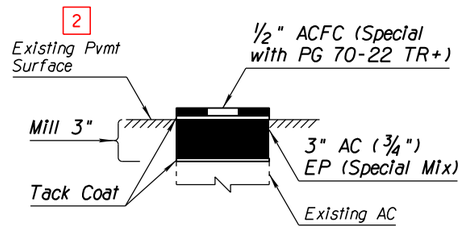
Total Thickness = 5"

SECTION NO. 1



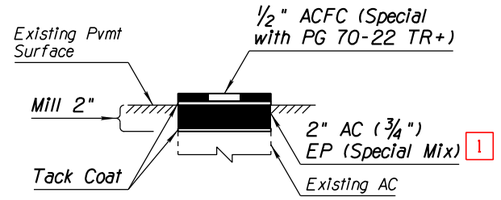
Total Thickness = 3½"

SECTION NO. 2



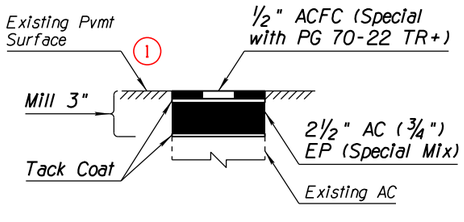
Total Thickness = 3½"

SECTION NO. 3



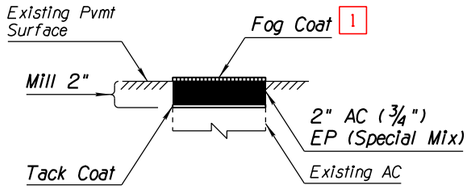
Total Thickness = 2½"

SECTION NO. 4



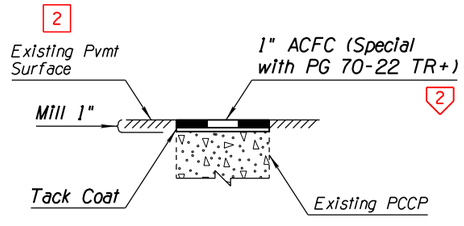
Total Thickness = 3"

SECTION NO. 5



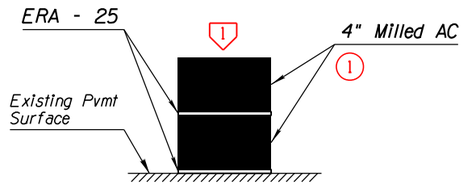
Total Thickness = 2"

SECTION NO. 6



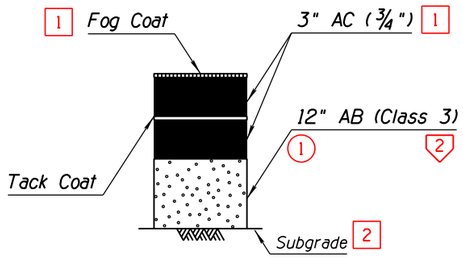
Total Thickness = 1"

SECTION NO. 7



Total Thickness = 8"

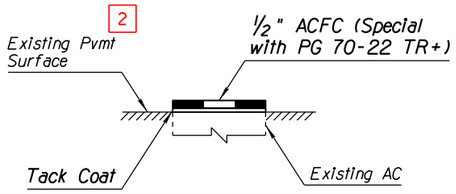
SECTION NO. 8



Total Thickness = 18" 3

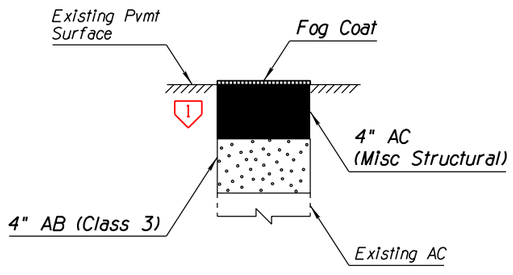
SECTION NO. 9

4



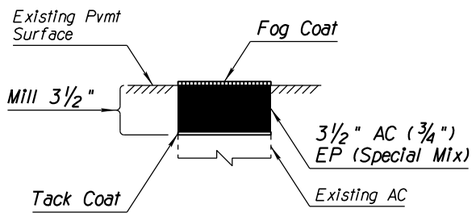
Total Thickness = ½"

SECTION NO. 10



Total Thickness = 8"

SECTION NO. 11



SR 87 Paving
Total Thickness = 3½"

SECTION NO. 12

PAVEMENT STRUCTURAL SECTIONS 4 1

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN				
CHECKED				
TEAM LEADER			DESIGN SHEET	
ROUTE SR 00	LOCATION PROJECT LOCATION			SHEET 2 OF 2
TRACS NO. H0000 01C		PROJECT NUMBER		___ OF ___

DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

STD P-02.61

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	58	1	15	4	45	CT	TJ is CT unless otherwise shown

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments

NOTE : For project related sheetS, see StandardS P-07.20, P-07.21 & P-08.20

USER NOTES

Reference No. ▽	Comments
1	See Std P-00.70 for Title Block & Project Number Block Layout
2	Use supplied data field
3	Urban Barrier Summary Sheets shall be used on Urban Projects, example shown is for Rural Projects

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

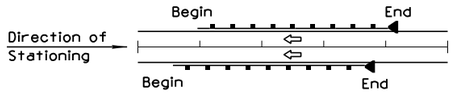
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

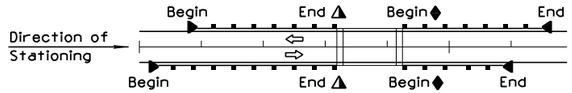
SAMPLE BARRIER SUMMARY SHEET

DRAWING NO.
P-03.10
Sheet 1 of 2

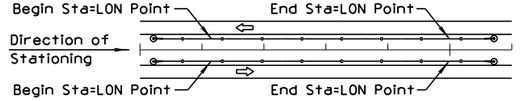
ONE-WAY ROADWAY



TWO-WAY ROADWAY WITH STRUCTURE ◒



DIVIDED ROADWAY WITH HIGH TENSION MEDIAN CABLE BARRIER



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

RT CO MP

DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

	LOCATION			BARRIER																														TRANSITION		END TREATMENT														
				NEW GUARDRAIL							EXISTING GUARDRAIL					CONCRETE BARRIER							CABLE												RAIL Each	CONC BARRIER Each	NEW Each ◪									EXISTING Action			EXISTING Each ◪					
	Begin Station (Approximate) (0)	Plan Reference Number ◇	Type "A" C-10.01, Type "B" C-10.02	C-10.03 (Timber)	C-10.04 (Steel)	Detail	Length (Linear Feet) (0.0)	C-10.06 Nested W-Beam ▲ Length (Linear Feet) (0.0)	C-10.07 Bolted Anchor (Each)	Shop Curved Guardrail Length (Linear Feet) (0.0)	Reconstruct-Exst Post, Block Length (Linear Feet) (0.0)	Reconstruct-New Post, Block Length (Linear Feet) (0.0)	Remove and Salvage Length (Linear Feet) (0.0)	Construct from Salvage Length (Linear Feet) (0.0)	Remove Length (Linear Feet) (0.0)	Length (Linear Feet) (0.0)	C-10.40 (32" Median)	C-10.41 (42" Median)	C-10.50 (32" Half)	C-10.54 (32" Half at Pier-s)	C-10.55 (42" Half at Pier-s)	Detail	Remove Existing Length (Linear Feet) (0.0)	High-Tension Cable Barrier ● Length (Linear Feet) (0.0)	C-12.30 Chain-Link Cable Barrier Length (Linear Feet) (0.0)	Begin = Treatment at Beginning End = Treatment at End	C-10.30 Thrie Beam	Reconstruct Rub Rail	C-10.70 32" or C-10.72 42"	C-10.74 42" to 32"	Detail	Tangent Details F and G	Flared Details and	End Anchor C-10.08 or Detail	High-Tension Cable Terminal	Sand Barrels C-1 or Detail	Attenuator Detail	Reconstruct (See Special Prv)	Remove and Salvage	Construct from Salvage	Remove	Tangent SKT-350	Flared	End Anchor C-10.08 or Detail	High-Tension Cable Terminal	Sand Barrels C-1 or Detail	Attenuator Detail	BCT (L=12.5')	REMARKS
1	395+55 Lt	1	B	X			912.5	12.5																										1				X										1	
2	399+30 Rt	2	B	X			462.5	12.5																										1				X				1									
	407+10 Rt	3	B	X			2512.5	25.0	3			12.5																							1				X										1	
	Sheet Total						3,887.5	50.0	3			12.5																							3								1						2	

THE ZEROS IN PARENTHESES (0.0) INDICATE THE DIMENSIONAL PRECISION FOR THAT COLUMN

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

◭ END STATION BEFORE BRIDGE TRANSITION

◆ BEGIN STATION AFTER BRIDGE TRANSITION

◒ SEE BRIDGE SHEETS FOR BRIDGE BARRIER DETAILS AND QUANTITIES

● LENGTH IS FROM LENGTH OF NEED (LON) POINT TO LON POINT. ACTUAL SEGMENT LENGTH VARIES DEPENDING ON TERMINAL TYPE. SEE SPECIAL PROVISIONS.

[1] ◪ ALLOWABLE END TREATMENT OPTIONS ARE INDICATED WITH THE NUMBER '1' IN THE SPACE. BLANK SPACES ARE NOT VIABLE ALTERNATIVES

■ ARRAY TYPE AND ANGLE IS NOTED UNDER 'REMARKS'

◧ FOR AS-BUILT PREPARATION - CIRCLE END TREATMENT INSTALLED

	NAME	DATE
DESIGN		
DRAWN		
CHECKED		
TEAM LEADER		

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY DESIGN SECTION

BARRIER SUMMARY SHEET

[3]

ROUTE: SR 00 | LOCATION: PROJECT LOCATION

SHEET 2 OF 2

TRACS NO. H0000 01C | PROJECT NUMBER ___ OF ___

STD P-03.10

CADD TEXT PARAMETERS

Reference No. [ ]	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
[1]	18/39	1	15	4	-	-	Use text data fields supplied with summary sheet

GRAPHIC PARAMETERS

Reference No. ( )	LV/CO=	WT=	LC=	Comments

NOTE : For project related sheet, see Standard P-03.25

USER NOTES

Reference No. < >	Comments

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

[ ] - Text Reference Callout
( ) - Graphic Reference Callout
< > - User Note Reference Callout

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE NEW PIPE SUMMARY SHEET

DRAWING NO.
P-03.20
Sheet 1 of 2

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

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

FOR LOCATIONS WITH MULTIPLE PIPES, THE LENGTH SHOWN IS THE TOTAL OF ALL PIPES.

NOTE:
PIPE OPTIONS SELECTED ARE THOSE REQUIRED TO MEET MINIMUM SERVICE LIFE.

ALLOWABLE PIPE OPTIONS ARE INDICATED WITH THE LETTER 'X' IN THE SPACE. BLANK SPACES ARE NOT ALLOWABLE ALTERNATES.

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

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

RT CO MP

	DESCRIPTION							CSP						CAP			RCP		NRCP	NRCIPCP	CHDPEPP	END TREATMENT															QUANTITIES				
	Station	Plan Reference Number	Controlling Fill Height Range (CR)	Size, Corrugated In.	Size, Smooth In.	Length (0) Ft.	Skew (0) Degree	Corrugation	Wall Thickness (0.000)	Zinc	Bituminous Coated Zinc	Aluminum	Bituminous Coated Aluminum	Corrugation	Wall Thickness (0.000)	Uncoated	Bituminous Coated	Class - Non-Trench	Class - Trench	Class	Minimum Wall Thickness (0) In.	AASHTO M-294 Type C	AASHTO M-294 Type S	C-13.20 & C-13.25	Detail	Size, (In) Manhole	End Section Each	Standard or Detail	S-Single / D-Double	Location	H (0.0)	L Wing (0.0)	L 18" Slotted Drain (0) Ft.	L 24" Slotted Drain (0) Ft.	Type	Elevation (0.00)	Grate Depth In.	Grate L (0.0) Ft.	Inlet Depression C-15.70	Pipe Excavation (0) Cubic Yard	Pipe Backfill (0) C-13.15	Drainage Excavation (0)	Berm Embankment (0)	Dike Embankment (0)	REMARKS
1	1458+50.00	1	1	28" X 20"		352	0°	A	.079	X										3	3			4			SD 6.30												277	151	1,134		63	Detail D1
	1462+00.00	2	1	28" X 20"		352	0°	A	.079	X										3	3			4			SD 6.30												346	151	1,134		41	Detail D2
1	1472+25.00	3	1	28" X 20"		388	25°	A	.079	X										3	3			4			SD 6.30												312	167	1,022		62	Detail D3
	1479+12.00	4	1	48"		170	0°	A	.079	X																	SD 6.30												410	119	40		36	Detail D4, Detail E
	Sheet Total																							12															1,345	588	3,510		202	

EC-Emergency Crossover

FILL HEIGHT RANGE TABLE (Ft.)													
RANGE NO.		1	2	3	4	5	6	7	8	9	10	11	12
FILL	>	1	3	5	8	11	15	20	25	30	40	55	70
HEIGHT (Ft.)	≤	3	5	8	11	15	20	25	30	40	55	70	90
(CR) SHOULD FIELD CONDITIONS VARY FROM THE RANGE INDICATED, CONTACT DESIGN FOR RE-EVALUATION OF PIPE DESIGN REQUIREMENTS.													

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

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION
DESIGN			
DRAWN			NEW PIPE SUMMARY SHEET
CHECKED			
TEAM LEADER			
ROUTE SR 00	LOCATION PROJECT LOCATION		SHEET 2 OF 2
TRACS NO. H0000 01C		PROJECT NUMBER	___ OF ___

DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO. DATE-

REV. DATE: 05/10/2014

STD P-03.20

CADD TEXT PARAMETERS

Reference No. [ ]	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
[1]	18/39	1	15	4	-	-	Use text data fields supplied with summary sheet

GRAPHIC PARAMETERS

Reference No. ( )	LV/CO=	WT=	LC=	Comments

NOTE : For project related sheet, see Standard P-03.20

USER NOTES

Reference No. < >	Comments

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

[ ] - Text Reference Callout
( ) - Graphic Reference Callout
< > - User Note Reference Callout

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
	SAMPLE CORRUGATED STEEL PIPE EXTENSION & REINFORCED CONCRETE BOX CULVERT SUMMARY SHEET	DRAWING NO. P-03.25 Sheet 1 of 2

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PROJ. NUMBER			
		RT CO MP			

FOR LOCATIONS WITH MULTIPLE PIPES, THE LENGTH SHOWN IS THE TOTAL OF ALL PIPES.

CAP - CORRUGATED ALUMINUM PIPE

DESCRIPTION												CAP						END TREATMENT														QUANTITIES						
			Inch	Ft	Degree	Each	Ft	Ft				Ft		In				Each						Catch Basin, Manhole, Headwall & Junction Structure										Cubic Yard					
Station	Plan Reference Number	◒ Controlling Fill Height Range	Size	Length In Place (0.0)	Skew (0)	Remove & Salvage End Section	Remove Headwall	Left (0.0)	Right (0.0)	Remove Existing Pipe Left (0)	Remove Existing Pipe Right (0)	◪ Corrugation	Wall Thickness (0.000)	Uncoated	Bituminous Coated	Reset Salvaged End Section	New	Detail	Size (In.) Manhole	Standard or Detail	S-Single / D-Double	Location	H (0.0)	L Wing (0.0)	Ft: L 18" Slotted Drain (0)	Ft: L 24" Slotted Drain (0)	Grate: Type	Grate: Elevation (0.00)	Grate: Depth	Inlet Depression C-15.70 In	Inlet Depression C-15.70 Ft L (0.0)	Pipe Excavation (0)	Pipe Backfill (0) C-13.15	Drainage Excavation (0)	Berm Embankment (0)	Dike Embankment (0)	REMARKS
EB 1589+00.00	1	4	36	236.5	0			9	2	68	78	A	0.079				2														121	126	190			SEE DETAIL D7, D8 & D9
EB 1625+81.94	2	2	30	246.0	0						20	A	0.079				1															5				SEE DETAIL D12
Sheet Total																	3														121	131	190			

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

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

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

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

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

DESCRIPTION															END TREATMENT								LENGTH OF BARREL & BARREL EXTENSIONS												APPROXIMATE QUANTITIES									
						Ft	Ft	Ft							WINGS			APRONS			MISCELLANEOUS															Lbs	Ea	Cubic Yards						
Plan Ref No. ◯ & ◒	Structure Number	New	Extend	Number of Barrels	Barrel Span (0)	Barrel Height (0)	Culvert Length (0.0)	Skew (Degree) (0)	SD 6.01-1, 6.01-2 Misc Details	SD 6.01-3 Extension Details	◪ Standard or Detail	▼ Location	Inlet Wings	Outlet Wings	◪ Standard or Detail	Apron	◪ Standard or Detail	Scour/Bank Protection	◪ Standard or Detail	Energy Dissipators	Detail	Construction ℄ / Existing & Construction ℄ / Extension Length / Barrel Length	Linear Feet (0.0) ▲ Left of ℄ I	II	III	IV	V	▲ Right of ℄ V	IV	III	II	I	◪ Reinforcing Steel (0)	◪ Place Dowels	◪ Class S Concrete f'c=3,000 PSI	◪ Remove Str Concrete (0)	◪ Structural Excavation (0)	◪ Structure Backfill (0)	Berm Embankment (0)	Dike Embankment (0)	Drainage Excavation (0)	REMARKS
1	2576		X	1	6	7	205.0			X	X	SD 6.01-5	Left																															
Station: 1620+45.34													Right		X	SD 6.08-1															13.0	2720	7	40	1	130	140	35			SEE DETAIL D11
Existing:																															Box Culvert Total										
													Left																														
Station:													Right																														
Existing:																															Box Culvert Total										
													Left																														
Station:													Right																														
Existing:																															Box Culvert Total										
																															Sheet Total	2720	7	40	1	130	140	35			

NOTE:
THE ZEROS IN PARENTHESES (0, 0.0 & 0.00) INDICATE THE DIMENSIONAL PRECISION FOR THAT COLUMN

◑ TOTALS SHOWN FOR THE BOX CULVERT INCLUDE THE QUANTITIES FOR HEADWALLS, WINGS, APRONS, CURBS, CUT-OFF WALLS AND LAPS AT CONSTRUCTION JOINTS.

NOTE:
FOR STRUCTURAL EXCAVATION, STRUCTURE BACKFILL PLACEMENT AND MEASUREMENT, SEE STRUCTURE DETAIL DRAWING SD 6.01 (4 OF 5)

◪ BRIDGE GROUP STRUCTURE DETAIL DRAWINGS SD 6.01 TO SD 6.11

▲ Construction ℄ Looking Ahead

	NAME	DATE
DESIGN		
DRAWN		
CHECKED		
TEAM LEADER		

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY DESIGN SECTION

CAP PIPE EXT SUMMARY SHEET
&
RCB CULVERT SUMMARY SHEET

ROUTE	LOCATION	SHEET
SR 00	PROJECT LOCATION	2 OF 2
TRACS NO. H0000 01C	PROJECT NUMBER	___ OF ___

REV. DATE: 05/10/2014
SURVEY NO. | FINISHED PLANS- | REVISIONS- | LOCATION- | DATE-

STD P-03.25

CADD TEXT PARAMETERS

Reference No. [ ]	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
[1]							See Std P-00.60 for Data Table Text

GRAPHIC PARAMETERS

Reference No. ◯	LV/CO=	WT=	LC=	Comments

USER NOTES

Reference No. ▽	Comments
[1]	See Std P-00.60 for Data Table Layout

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

[ ] - Text Reference Callout
◯ - Graphic Reference Callout
▽ - User Note Reference Callout

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

TURNOUT TABLE
AND
DETAIL SHEET

DRAWING NO.
P-04.00
Sheet 1 of 2

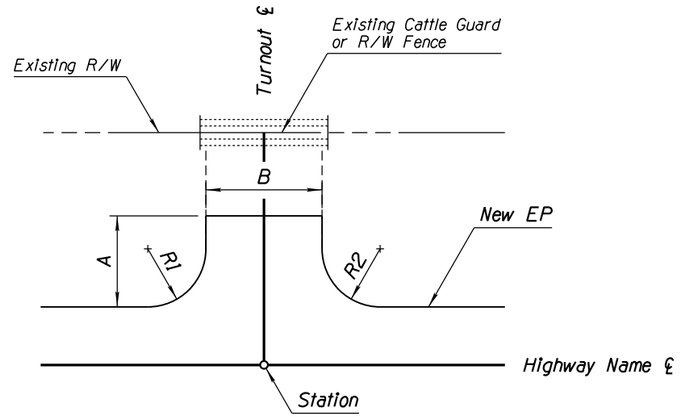
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PROJ. NUMBER			

RT CO MP

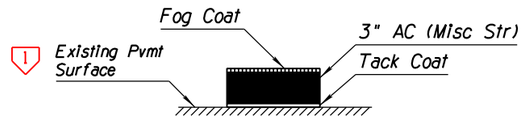
EXISTING TURNOUT TABLE

Turnout Number	℄ Station	Lt/Rt	Paved or Unpaved	DIMENSIONS A	B	R1	R2	Pvmt Str Sct No.	REMARKS ◒
T1	1732+57	Rt	Paved	30	25	30	30	5	
T2	1858+23	Rt	Paved	30	25	30	30	5	Ramsey Mine Rd
T3	1870+90	Lt	Paved	35	32	35	35	5	Perry Rd
T4	1873+02	Lt	Paved	30	25	30	30	5	
T5	1874+61	Lt	Paved	30	25	30	20	5	Skew 45 Deg. Type B Turnout
T6	1879+36	Rt	Unpaved	100	24	35	35	6	
T7	1879+89	Lt	Unpaved	50	40	35	35	6	
T8	1880+95	Lt	Paved	30	25	30	30	5	
T9	1880+95	Rt	Unpaved	30	25	30	30	6	
T10	1882+53	Lt	Unpaved	75	24	40	40	6	
T11	1883+06	Rt	Unpaved	30	25	30	30	6	
T12	1885+17	Lt	Paved	30	25	30	20	5	Skew 45 Deg. Type B Turnout
T13	1889+92	Rt	Unpaved	100	24	40	40	6	
T14	1892+56	Lt	Paved	50	25	30	30	5	Twin Buttes Rd
T15	1898+89	Rt	Unpaved	30	25	30	30	6	
T16	1902+06	Rt	Paved	100	38	40	40	5	
T17	1903+12	Rt	Paved	30	25	30	30	5	
T18	1904+36	Lt	Unpaved	30	25	30	30	6	Black Rock RV Village
T19	1905+42	Lt	Unpaved	30	25	30	30	6	Black Rock RV Village
T20	1906+47	Lt	Unpaved	80	24	25	25	6	Black Rock RV Village
T21	1909+64	Lt	Unpaved	100	38	30	30	6	Black Rock RV Village
T22	1976+70	Lt	Paved	30	25	30	30	5	Flying Crown Ranch Rd
T23	2060+12	Lt	Unpaved	100	25	30	30	6	
T24	2062+76	Lt	Paved	30	25	30	30	5	
T25	2070+16	Lt	Unpaved	30	25	30	30	6	
T26	2093+39	Lt	Unpaved	80	38	35	35	6	
T27	2096+03	Rt	Unpaved	30	25	30	30	6	
T28	2098+67	Rt	Unpaved	30	25	30	30	6	
T29	2103+95	Lt	Unpaved	30	25	30	30	6	
T30	2109+75	Rt	Unpaved	60	40	35	35	6	
T31	2127+17	Lt	Unpaved	30	25	30	30	6	
T32	2129+29	Rt	Unpaved	100	24	25	25	6	
T33	2141+96	Rt	Unpaved	30	25	30	30	6	
T34	2148+30	Lt	Unpaved	30	25	30	30	6	
T35	2160+97	Lt	Unpaved	30	25	30	30	6	
T36	2167+31	Lt	Unpaved	50	25	30	30	6	
T37	2172+59	Lt	Unpaved	30	32	30	30	6	
T38	2181+56	Lt	Unpaved	30	25	30	30	6	
T39	2185+79	Rt	Unpaved	50	25	30	30	6	
T40	2187+37	Rt	Unpaved	100	32	40	40	6	
T41	2194+76	Rt	Paved	30	25	30	30	5	
T42	2195+29	Lt	Paved	30	25	30	30	5	
T43	2285+88	Rt	Unpaved	30	25	30	30	6	
T44	2288+52	Rt	Unpaved	60	24	25	25	6	
T45	2294+32	Rt	Paved	30	25	30	30	5	

◒ Unless otherwise noted, all turnouts are Type A.

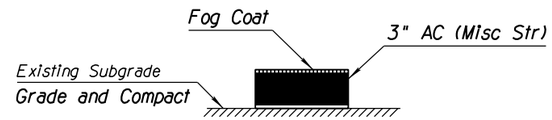


TURNOUT DETAIL



Total Thickness = 3"

SECTION NO. 5



Total Thickness = 3"

SECTION NO. 6

NOTES:
See Std C-6.10 for additional information.
For Type B turnouts, Dimension A is measured along the turnout centerline.

DETAIL C

Sheet 1 of 1

TURNOUT TABLE AND DETAIL

	NAME	DATE
DESIGN		
DRAWN		
CHECKED		
TEAM LEADER		

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY DESIGN SECTION

DETAIL SHEET

ROUTE SR 00 | LOCATION PROJECT LOCATION | SHEET 2 OF 2

TRACS NO. H0000 01C | PROJECT NUMBER ____ OF ____

STD P-04.00

DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

CADD TEXT PARAMETERS

Reference No. [ ]	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
[1]	-	-	-	-	-	-	See Std P-00.60 for Data Table Text
[2]	25	1	22	6	11	CB	
[3]	21	23	17.5	4	8.75	LB	
[4]	54	1	22	6	11	CB	

GRAPHIC PARAMETERS

Reference No. ( )	LV/CO=	WT=	LC=	Comments
(1)	◑	1	0	◑ Dimension, Extension Line or Leader Line LV/CO shall match the LV/CO of the text placed for that item
(2)	-	-	-	ADOT Standard Line Terminator; typical. The LV/CO shall match the LV/CO of the text placed for that item
(3)	59	2	1	Area Pattern: (Patl) pattern angle = 45°; pattern delta= 7 working units

USER NOTES

Reference No. ▽	Comments
[1]	See Std P-00.60 for Data Table Layout
[2]	Use Section Cut Line Cell from the Roadway Cell Library

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

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

[ ] - Text Reference Callout
( ) - Graphic Reference Callout
▽ - User Note Reference Callout

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

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

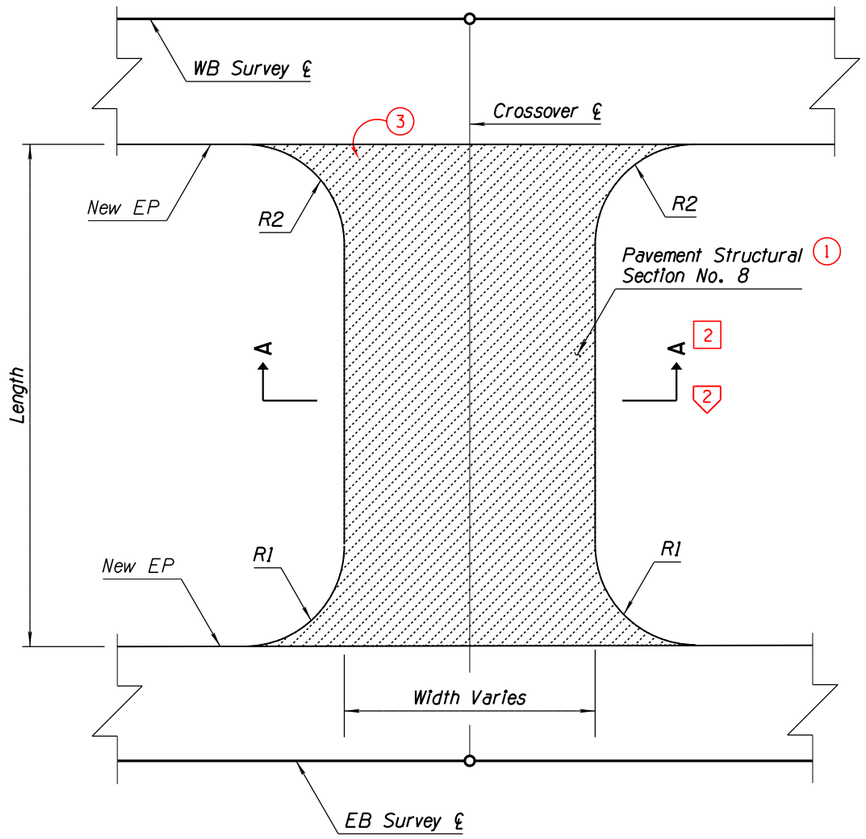
REV.

CROSSOVER DETAIL SHEET

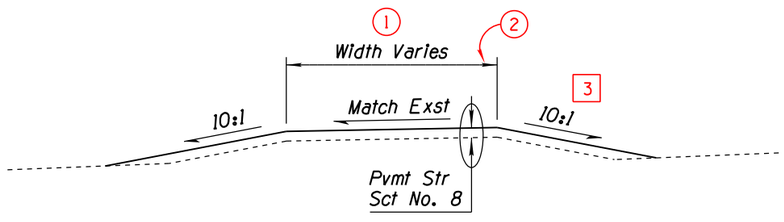
DRAWING NO. P-04.10
Sheet 1 of 2

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

RT CO MP



PLAN
MEDIAN CROSSOVER



SECTION A-A 4

CROSSOVER SCHEDULE

CROSSOVER ID □	STATION	LENGTH	WIDTH	R1	R2	AREA Sq Ft	
C1	EB 2824+81	76'	30'	35'	40'	3,493	
C2	EB 2886+97	76'	28'	35'	35'	3,180	1
C3	EB 2946+78	76'	36'	35'	35'	3,788	1
C4	EB 2967+78	76'	28'	40'	35'	3,341	
C5	EB 3015+09	76'	32'	35'	35'	3,484	
C6	EB 3057+24	76'	32'	35'	35'	3,484	
C7	EB 3081+68	76'	30'	35'	35'	3,332	
C8	EB 3131+55	76'	18'	35'	35'	2,420	
C9	EB 3255+18	76'	26'	35'	35'	3,028	

DETAIL D
CROSSOVERS

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN				
CHECKED				
TEAM LEADER			DETAIL SHEET	
ROUTE SR 00	LOCATION PROJECT LOCATION			SHEET 2 OF 2
TRACS NO. H0000 01C		PROJECT NUMBER		___ OF ___

STD P-04.10

SURVEY NO. | FINISHED PLANS- | REVISIONS- | LOCATION- | DATE-

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1							See Std P-00.60 for Data Table Text

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments
1	◑	1	0	◑ Dimension, Extension Line or Leader Line LV/CO shall match the LV/CO of the text placed for that item
2	59	2	1	Area Pattern: (Pat1) pattern angle = 45°; pattern delta= 7 working units

USER NOTES

Reference No. ▽	Comments
1	See Std P-00.60 for Data Table Layout

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

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

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

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

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

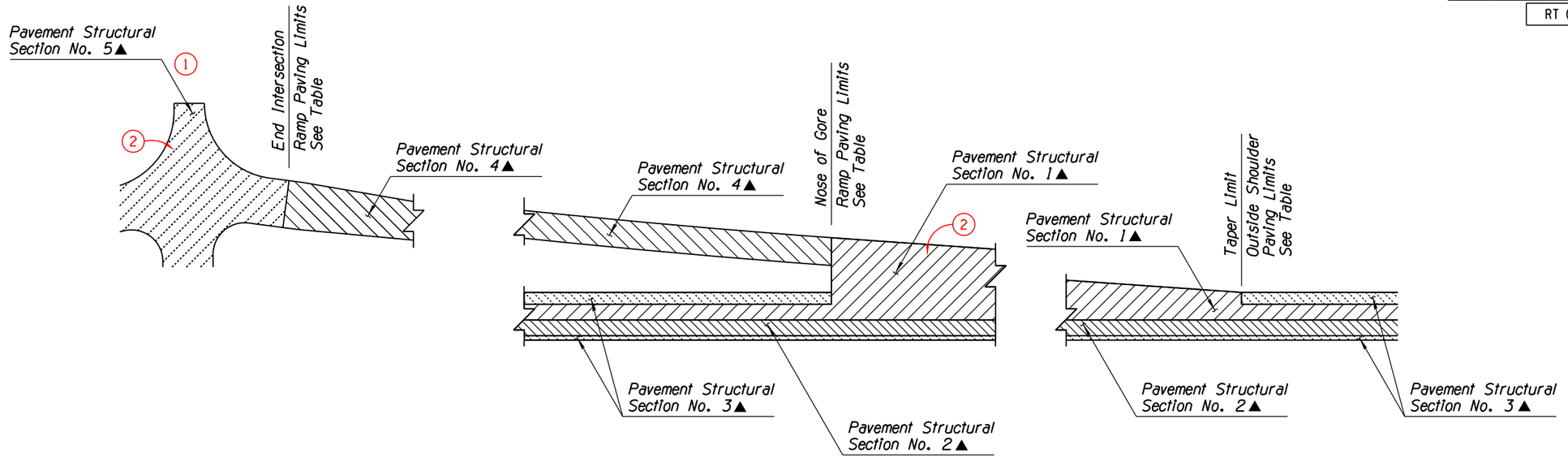
REV.

Ramp Paving Detail Sheet

DRAWING NO.
P-04.15
Sheet 1 of 2

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

RT CO MP

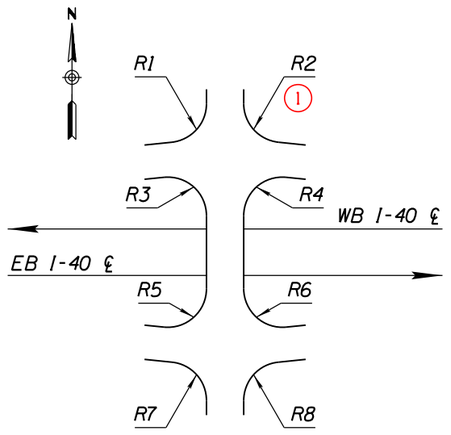


RAMP DETAIL

RAMP PAVING STATIONING

LOCATION	Nose of Gore		Taper Limit I-40 ℄ Sta	End Intersection	
	I-40 ℄ Sta	Ramp ℄ Sta			
Hipkoe Ramp A	WB 2923+00.61	10+91.42	WB 2927+87.87	0+73.70	
Hipkoe Ramp B	WB 2900+89.18	0+24.95	WB 2888+60.27	10+72.97	
Hipkoe Ramp C	EB 2898+52.30	3+41.91	EB 2895+02.22	17+19.91	1
Hipkoe Ramp D	EB 2921+80.02	9+47.90	EB 2934+27.01	0+27.93	
North Park Ramp aa▲	WB 2970+12.87	8+79.95	WB 2962+48.63	15+36.39	1
North Park Ramp bb▲	WB 3006+39.69	16+33.76	WB 3010+27.57	14+15.67	
North Park Ramp cc▲	EB 2978+61.16	3+83.81	EB 2972+19.56	6+43.25	
North Park Ramp dd▲	EB 3011+92.33	20+40.28	EB 3019+79.01	14+88.32	

▲ Structural Section No. 6 at North Park TI



RAMP RADIUS DETAIL

RAMP RADIUS TABLE

LOCATION	RADIUS (FT)							
	R1	R2	R3	R4	R5	R6	R7	R8
Hipkoe Dr	55'	70'	25'	30'	30'	30'	50'	80'
Transcon Ln	60'	55'	40'	45'	60'	60'	90'●	60'
SR 87	65'	50'	50'	50'	35'	50'	55'	50'

1
1

● See Detail G

DETAIL K

RAMP PAVING LIMITS

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN				
CHECKED				
TEAM LEADER			DETAIL SHEET	
ROUTE SR 00	LOCATION PROJECT LOCATION			SHEET 2 OF 2
TRACS NO. H0000 01C			PROJECT NUMBER	___ OF ___

STD P-04.15

SURVEY NO. | FINISHED PLANS- | REVISIONS- | LOCATION- | DATE-

CADD TEXT PARAMETERS

Reference No. [ ]	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
[1]	36	23	17.5	4	8.75	LB	
[2]	26	23	17.5	4	8.75	LB	
[3]	28	23	17.5	4	8.75	LB	

GRAPHIC PARAMETERS

Reference No. ( )	LV/CO=	WT=	LC=	Comments
(1)	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
(2)	35	3	0	
(3)	-	-	-	ADOT Standard Line Terminator; typical. LV/CO shall match the LV/CO of the text placed for that item
(4)	45	3	0	

USER NOTES

Reference No. ▽	Comments
[1]	See Std P-00.60 & P-00.61 for Dimension & Leader Line Layout

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

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

[ ] - Text Reference Callout
( ) - Graphic Reference Callout
▽ - User Note Reference Callout

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

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

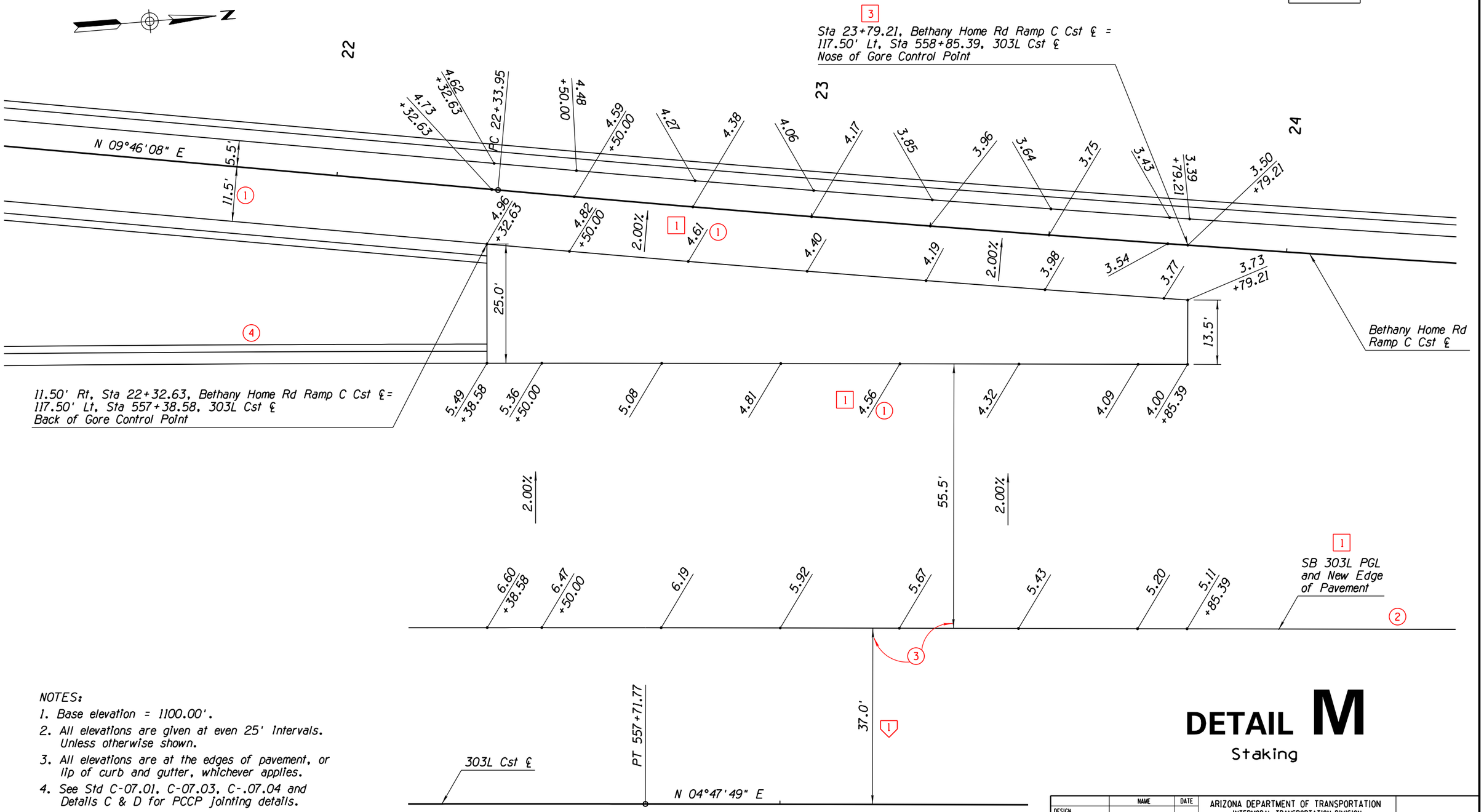
REV.

GORE STAKING AND JOINING PLAN

DRAWING NO.
P-04.20
Sheet 1 of 2

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PROJ. NUMBER			
		RT CO MP			

SURVEY NO. | FINISHED PLANS- | REVISIONS- | LOCATION- | DATE-



558

NOTES:

1. Base elevation = 1100.00'.
2. All elevations are given at even 25' intervals. Unless otherwise shown.
3. All elevations are at the edges of pavement, or lip of curb and gutter, whichever applies.
4. See Std C-07.01, C-07.03, C-.07.04 and Details C & D for PCCP jointing details.

DETAIL M

Staking

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN				
CHECKED				
TEAM LEADER			GORE STAKING & JOINTING PLAN	
ROUTE SR 00	LOCATION PROJECT LOCATION			SHEET 2 OF 2
TRACS NO. H0000 01C			PROJECT NUMBER	___ OF ___

STD P-04.20

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	29	23	15	2	7.5	LB	
2	39	23	17.5	4	8.75	LB	
3	37	23	17.5	4	8.75	LB	
4	62	1	20	6	-	CB	
5	28	23	17.5	4	8.75	CB	
6	39	1	17.5	4	8.75	CC	
7	36	23	17.5	4	8.75	RB	
8	39	1	17.5	6	8.75	CC	
9	39	23	15	2	7.5	CB	
10	14	1	15	2	7.5	CB	
11	14	23	15	2	7.5	CB	

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments
1	16	1	3	
2	38	3	0	
3	◑	1	0	◑ Dimension, Extension Line or Leader Line LV/CO shall match the LV/CO of the text placed for that item
4	35	3	0	
5	59	1	5	
6	37	3	0	
7	-	-	-	ADOT Standard Line Terminator; typical. The LV/CO shall match the LV/CO of the text placed for that item
8	38	6	0	
9	5	4	0	
10	6	0	0	

The subdued background shown can be produced by using a modified pen table. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.

NOTE: For project related sheet, see Standard P-05.40

USER NOTES

Reference No. ▽	Comments
1	See Std P-00.70 for Profile Sheet Overlay
2	See Std P-00.60 & P-00.61 for Dimension & Leader Line Layout
3	Show slope in feet per foot to 4 decimal places
4	See Std P-00.61 for Detail Format Layout

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

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

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

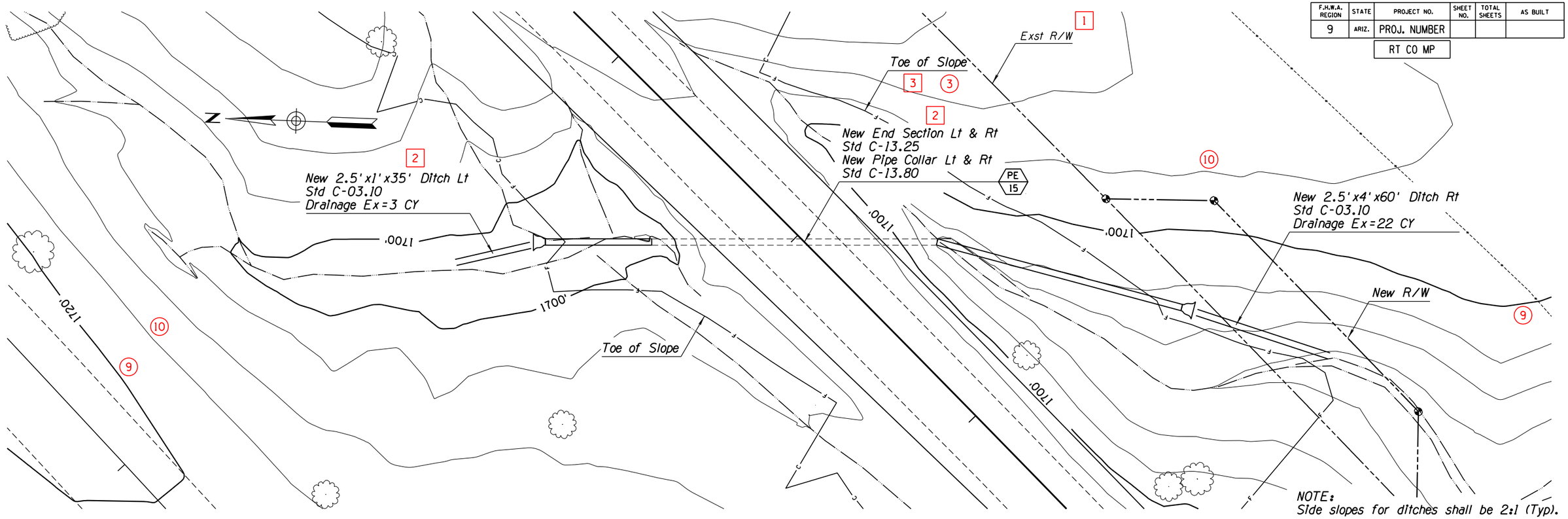
DESCRIPTION OF REVISION NO.

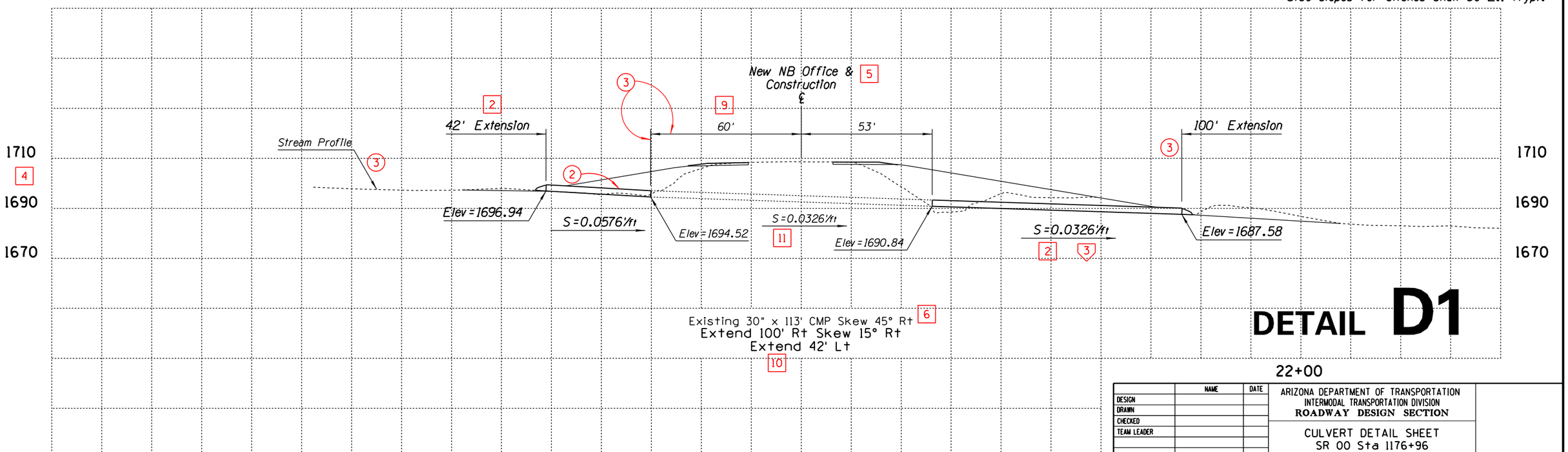
DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
SAMPLE CULVERT DETAIL SHEET FOR NEW PIPE INSTALLATION		DRAWING NO. P-05.10 Sheet 1 of 2

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

RT CO MP





DETAIL D1

	NAME	DATE
DESIGN		
DRAWN		
CHECKED		
TEAM LEADER		

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY DESIGN SECTION

CULVERT DETAIL SHEET
SR 00 Sta 1176+96

ROUTE: SR 00 | LOCATION: PROJECT LOCATION

SHEET 2 OF 2

TRACS NO. H0000 01C | PROJECT NUMBER ____ OF ____

STD P-05.10

SURVEY NO. | FINISHED PLANS- | REVISIONS- | LOCATION- | DATE-

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	29	23	15	2	7.5	LB	
2	39	23	17.5	4	8.75	LB	
3	37	23	17.5	4	8.75	LB	
4	62	1	20	6	-	CB	
5	28	23	17.5	4	8.75	CB	
6	39	1	17.5	4	8.75	CC	
7	36	23	17.5	4	8.75	RB	
8	39	1	17.5	6	8.75	CC	
9	39	23	15	2	7.5	CB	
10	14	1	15	2	7.5	CB	
11	14	23	15	2	7.5	CB	

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments
1	16	1	3	
2	38	3	0	
3	◑	1	0	◑ Dimension, Extension Line or Leader Line LV/CO shall match the LV/CO of the text placed for that item
4	35	3	0	
5	59	1	5	
6	37	3	0	
7	-	-	-	ADOT Standard Line Terminator; typical. The LV/CO shall match the LV/CO of the text placed for that item
8	38	6	0	
9	5	4	0	
10	6	0	0	

The subdued background shown can be produced by using a modified pen table. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.

NOTE: For project related sheet, see Standard P-05.40

USER NOTES

Reference No. ▽	Comments
1	See Std P-00.70 for Profile Sheet Overlay
2	See Std P-00.60 & P-00.61 for Dimension & Leader Line Layout
3	Show slope in feet per foot to 4 decimal places
4	See Std P-00.61 for Detail Format Layout

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

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

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

DESCRIPTION OF REVISION NO.

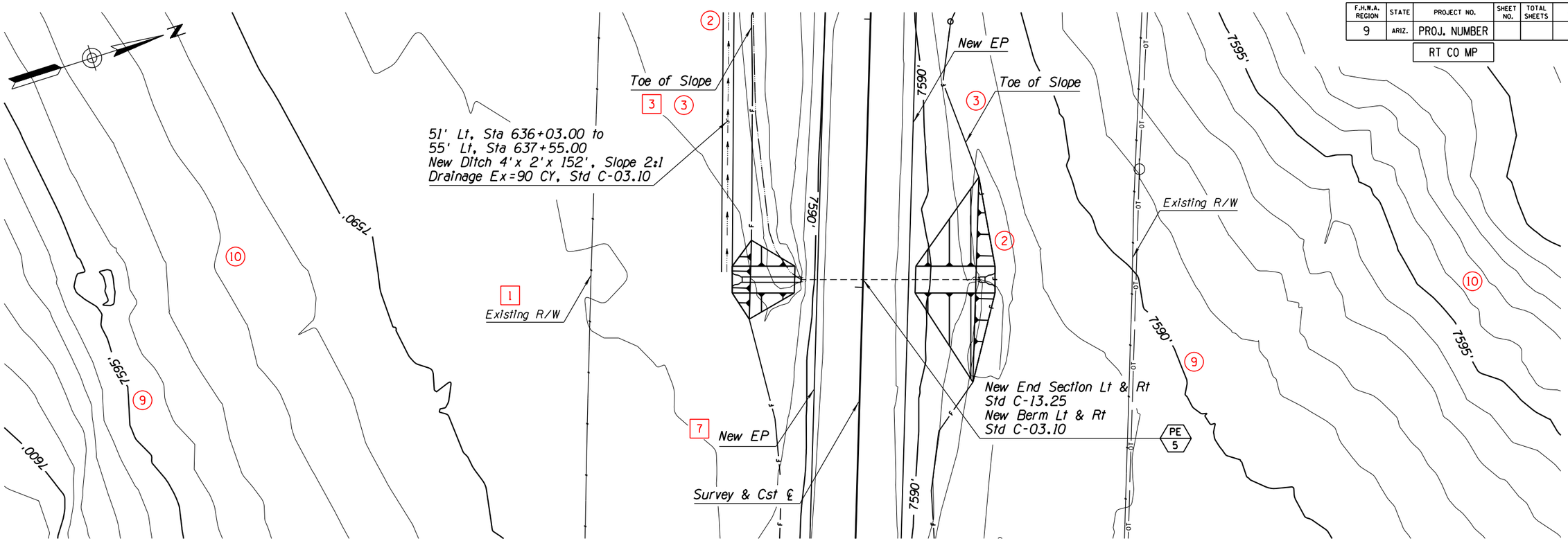
DESCRIPTION OF REVISION NO.

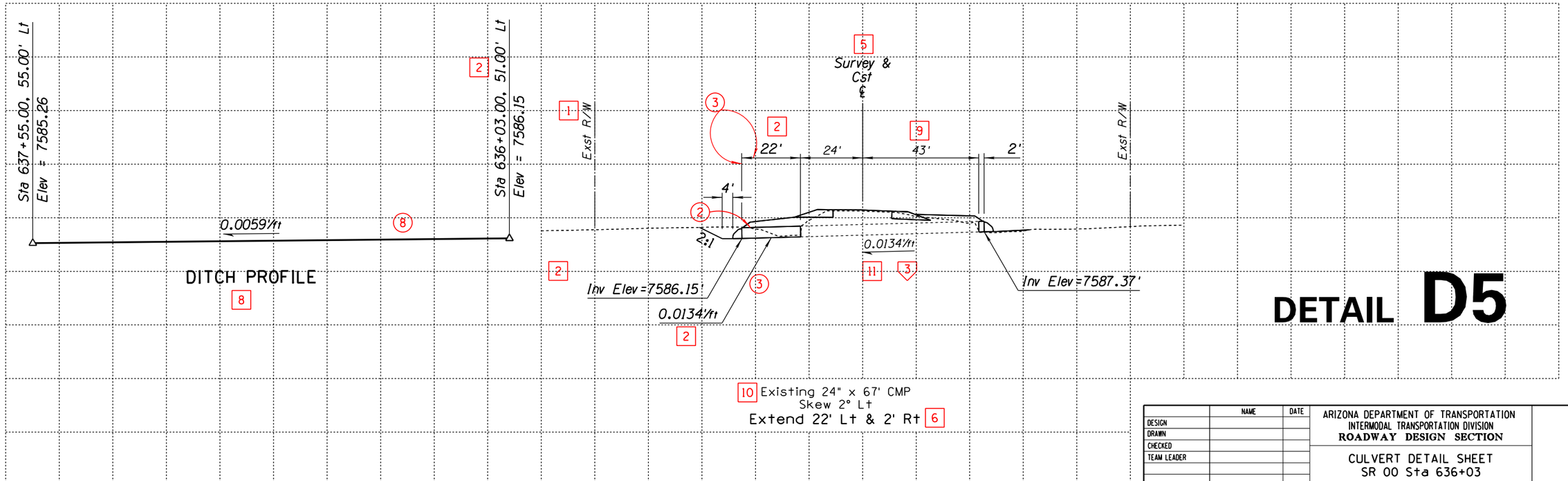
APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
	SAMPLE CULVERT DETAIL SHEET FOR PIPE EXTENSION WITH CATCH BASIN	DRAWING NO. P-05.25 Sheet 1 of 2

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

RT CO MP

SURVEY NO. | FINISHED PLANS- | REVISIONS- | LOCATION- | DATE-





DETAIL D5

	NAME	DATE
DESIGN		
DRAWN		
CHECKED		
TEAM LEADER		

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY DESIGN SECTION

CULVERT DETAIL SHEET
SR 00 Sta 636+03

ROUTE SR 00 | LOCATION PROJECT LOCATION | SHEET 2 OF 2

TRACS NO. H0000 01C | PROJECT NUMBER ___ OF ___

STD P-05.25

CADD TEXT PARAMETERS

Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	39	23	17.5	4	8.75	LB	
2	36	23	17.5	4	8.75	LB	
3	62	1	20	6	11	CB	
4	37	23	17.5	4	8.75	LB	
5	28	23	17.5	4	8.75	CB	
6	39	1	17.5	4	8.75	CB	

GRAPHIC PARAMETERS

Reference No.	LV/CO=	WT=	LC=	Comments
1	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
2	35	3	0	
3	37	2	0	
4	-	-	-	ADOT Standard Line Terminator; typical. LV/CO shall match the LV/CO of the text placed for that item
5	59	1	5	
6	13	1	1	
7	48	3	0	

The subdued background shown can be produced by using a modified pen table. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.

NOTE: For project related sheet, see Standard P-05.40

USER NOTES

Reference No.	Comments
1	See Std P-00.70 for Profile Sheet Overlay
2	See Std P-00.61 for Detail Format Layout
3	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout
4	Show slope in feet per foot to 4 decimal places

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

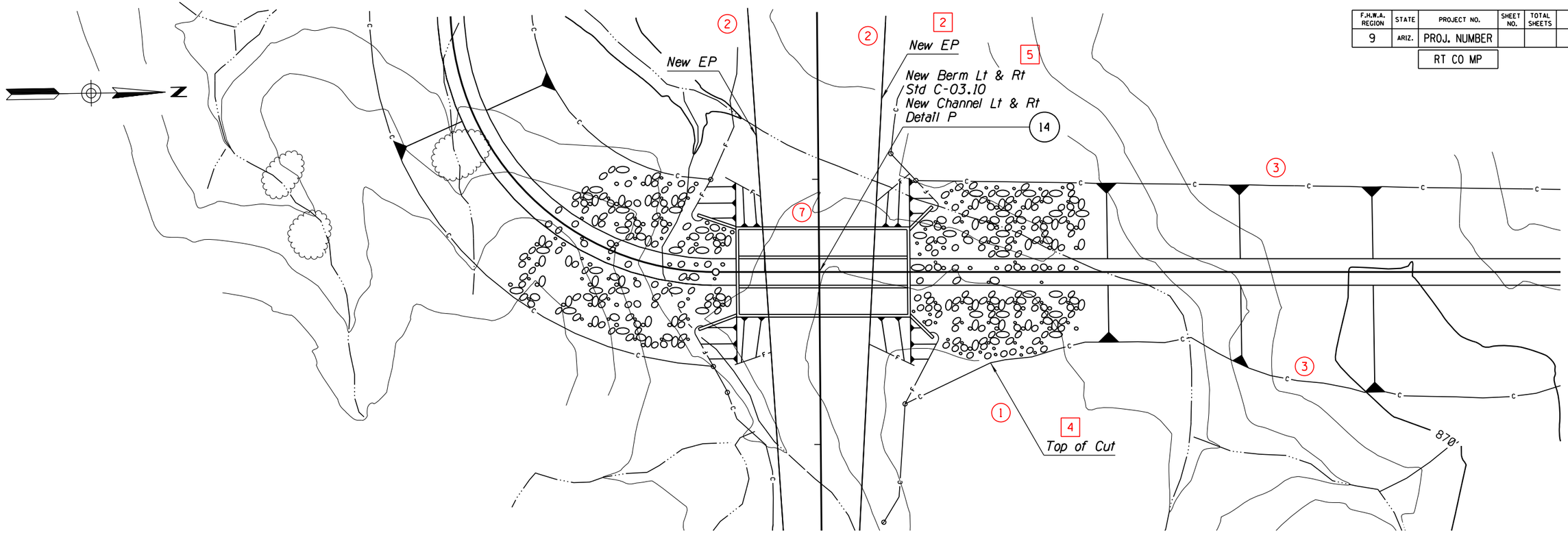
SAMPLE CULVERT DETAIL SHEET FOR
NEW CONCRETE BOX CULVERT INSTALLATION

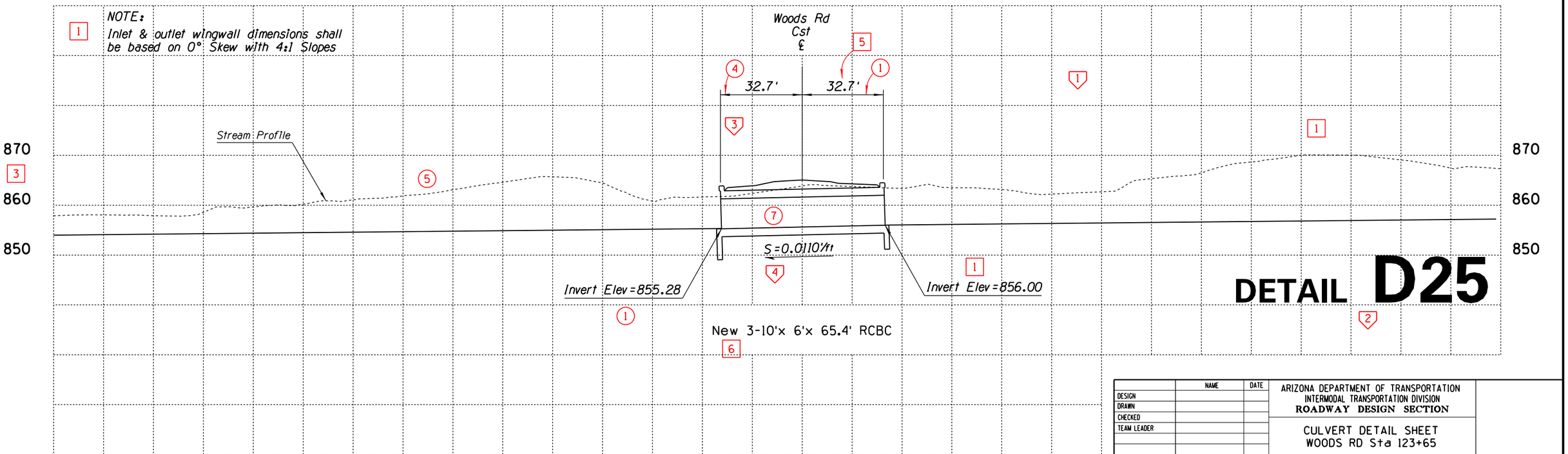
DRAWING NO.
P-05.30
Sheet 1 of 2

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

RT CO MP

DATE- | LOCATION- | REVISIONS- | FINISHED PLANS- | SURVEY NO.





	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN				
CHECKED			CULVERT DETAIL SHEET WOODS RD Sta 123+65	
TEAM LEADER				
ROUTE SR 00	LOCATION PROJECT LOCATION			SHEET 2 OF 2
TRACS NO. H0000 01C			PROJECT NUMBER	___ OF ___

STD P-05.30

CADD TEXT PARAMETERS

Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	39	23	17.5	4	8.75	LB	
2	30	23	17.5	4	8.75	LB	
3	62	1	20	6	11	CB	
4	14	23	15	2	7.5	LB	
5	28	23	17.5	4	8.75	CB	
6	14	1	15	2	7.5	CB	
7	39	1	17.5	4	8.75	CB	

GRAPHIC PARAMETERS

Reference No.	LV/CO=	WT=	LC=	Comments
1	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
2	35	3	0	
3	22	1	1	
4	48	3	0	
5	16	1	3	
6	59	1	5	
7	-	-	-	ADOT Standard Line Terminator; typical. LV/CO shall match the LV/CO of the text placed for that item
8	37	3	0	

The subdued background shown can be produced by using a modified pen table. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.

NOTE: For project related sheet, see Standard P-05.30

USER NOTES

Reference No.	Comments
1	See Std P-00.70 for Profile Sheet Overlay
2	See Std P-00.61 for Detail Format Layout
3	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout
4	Show slope in feet per foot to 4 decimal places

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

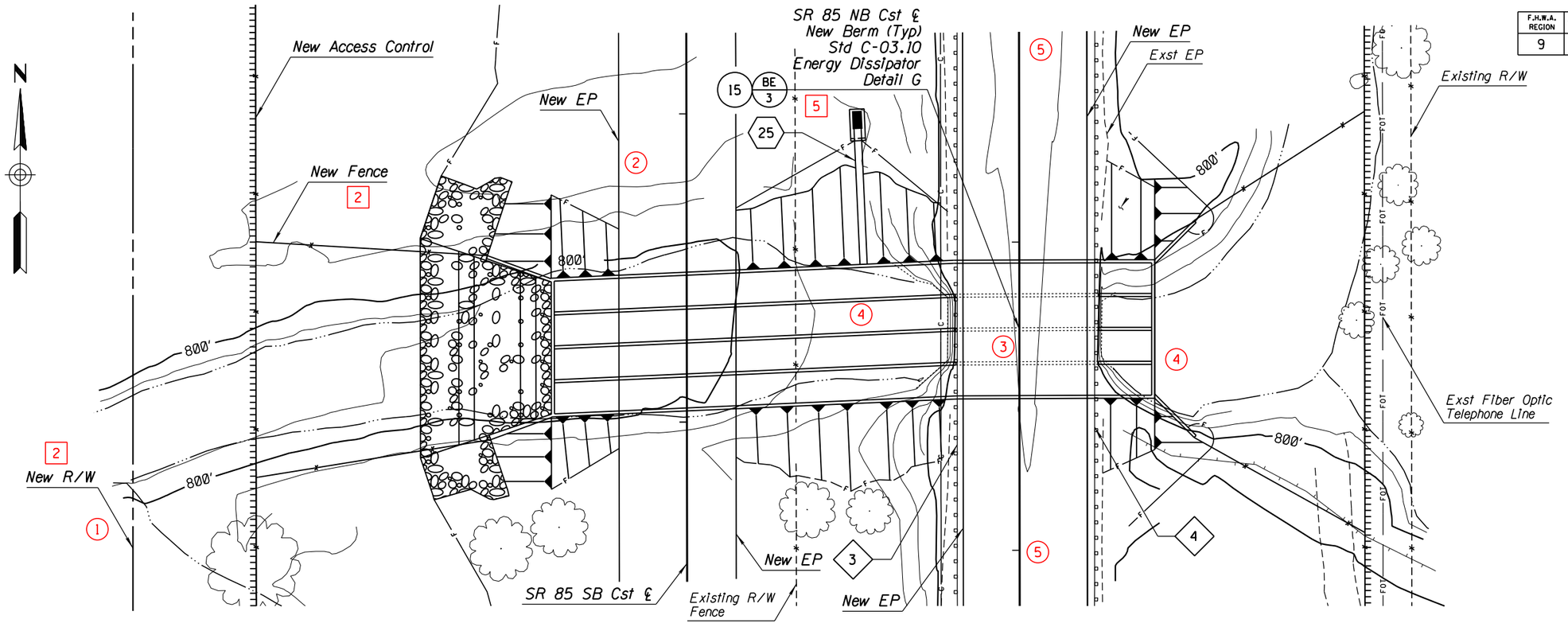
REV.

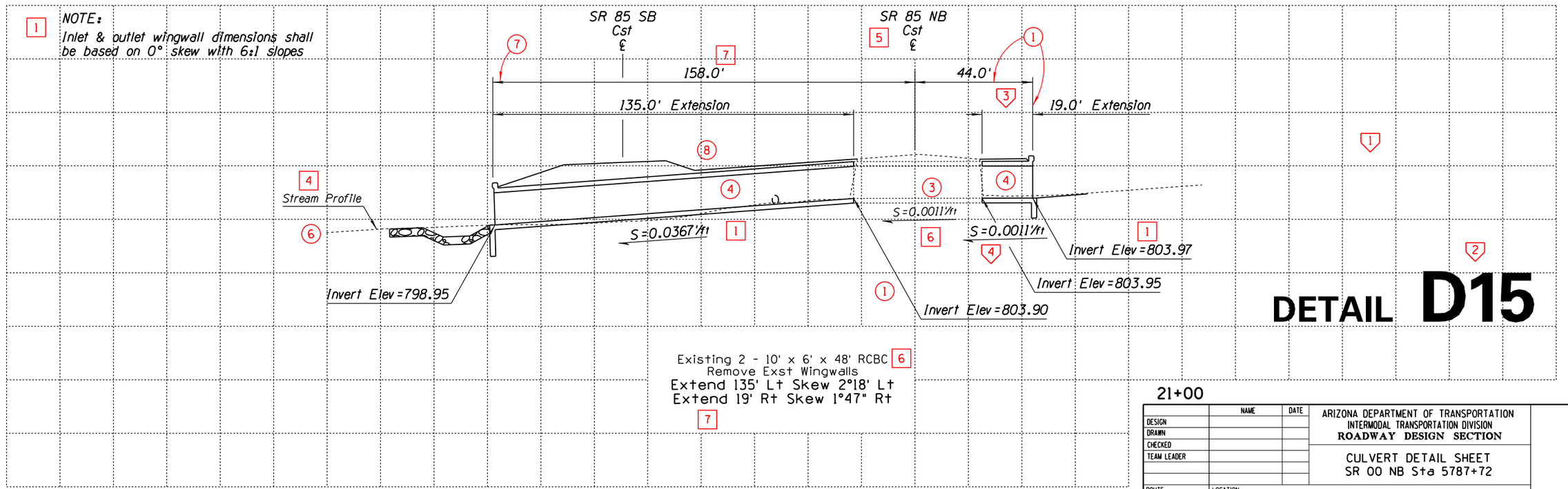
SAMPLE CULVERT DETAIL
SHEET FOR BOX EXTENSION

DRAWING NO.
P-05.40
Sheet 1 of 2

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

RT CO MP





DETAIL D15

	NAME	DATE
DESIGN		
DRAWN		
CHECKED		
TEAM LEADER		

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY DESIGN SECTION

CULVERT DETAIL SHEET
SR 00 NB Sta 5787+72

ROUTE SR 00 | LOCATION PROJECT LOCATION | SHEET 2 OF 2

TRACS NO. H0000 01C | PROJECT NUMBER | ___ OF ___

STD P-05.40

SURVEY NO. | FINISHED PLANS- | REVISIONS- | LOCATION- | DATE-

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	54	1	22	6	11	CB	
2	55	23	17.5	4	8.75	LB	Line Spacing between notes shall be 17.5 units

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments

Project by Project - Required Changes to sheet (highlighted in red on next sheet)
1) The Zone - Arizona West 0203, Arizona East 0201 or Arizona Central 0202
2) Ground Adjustment Factor
3) Who Surveyed the Project
4) Basis of Bearings
5) Basis of Alignments and Stations
6) Basis of Elevation
7) Table Data - NGS, Secondary and Calculated Control

USER NOTES

Reference No. ▽	Comments
1	See Std P-00.60 for Data Table Layout & Construction
2	See Std P-00.60 for Text Layout. Project specific changes are outlined (see note above).

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

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

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

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

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE SURVEY CONTROL SHEET

DRAWING NO. P-06.00
Sheet 1 of 2

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

RT CO MP

SURVEY NO. | FINISHED PLANS- | REVISIONS- | LOCATION- | DATE-

1

NGS CONTROL POINTS				
Point	Ground (E)	Ground (N)	Elevation	Description
R 21	710414.213	1392908.169	3956.594	FD NGS MONUMENT
M 31	710031.242	1392830.182	3974.652	FD NGS MONUMENT

1

SECONDARY CONTROL POINTS				
Point	Ground (E)	Ground (N)	Elevation	Description
T1	640935.729	1363504.260	5167.152	PK NAIL SET IN SIDEWALK
T2	640928.526	1363483.051	5167.707	RR SPIKE SET IN DRIVEWAY
T3	640916.271	1363438.138	5167.807	5/8IN REBAR SET AT S EDGE OF WALL
T4	640906.894	1363409.465	5168.943	5/8IN REBAR SET AT FOOT OF STAIRWELL 25FT S OF WALL
T5	640905.264	1363392.000	5168.492	5/8IN REBAR SET AT BASE OF HILL
T6	640910.813	1363359.955	5167.736	5/8IN REBAR SET AT FOOT OF STAIRWELL 75FT S OF WALL
T7	640938.669	1363401.863	5166.832	RR SPIKE SET I E EDGE OF NB 89A

1

CALCULATED CENTERLINE CONTROL POINT TABLE				
Point Type	Station	Ground (E)	Ground (N)	Description
				Best Fit Alignment - ASB 366 (37)P
POB	756+43.12	713669.30	1397347.22	NB SR 89A Begin Project - LS 1116
PC	787+42.35	716438.26	1398574.37	NB Basis of Stationing - LS 1116
POE	797+31.28	717263.33	1399119.48	NB SR 89A End Project - LS 1116
POB	756+44.81	713670.78	1397393.00	SB SR 89A Begin Project - LS 1116
POT	793+72.73			SB Basis of Stationing - LS 1116
POE	796+87.11	717223.44	1399148.06	SB SR 89A End Project - LS 1116

GENERAL NOTES 1

2 The following parameters were set for the basis of this survey:

System: United States State Plane 1983

Zone: Arizona Central 0202

2 Datum: North American 1983 (CONUS) modified 1992

Units = International Feet
(1 Feet = 0.3048 Meters exactly)

Direct satellite measurements were made on each point in the geocentric coordinate system of WGS 84 and automatic translations were made to the North American Datum of 1983 and to the ground scaled version of the State Plane grid system.

A ground adjustment factor of 1.00030 was provided by ADOT and used by ADOT Field Survey for project LS 1116 and utilized for this project.

Basis of Bearings:

E.S.S. survey crew furnished the coordinates for this project. The coordinates were based on NAD83/92 Horizontal and NAVD88 Vertical Datum with a GAF of 1.00030. Control Points used for this project include: R21, M31, VORTEX, WHITE, SEZ B and SEZ F.

Basis of Alignments and Stations:

Best Fit Alignment was produced from As Built Plans 366 (37)P. The NB stations were based on existing AHC R/W Markers located by the field survey and held Sta. of 787+42.35 on AHD R/W Markers stamped as such. The SB stations were based on existing AHC R/W Markers located by the field survey and held sta. of 793+72.73 on AHD R/W Markers stamped as such.

Basis of Elevations:

An elevation of 3956.594 was held on a found NGS Monument, R21, and an elevation of 3974.652 was held on a found NGS Monument, M31.

All bearings are grid bearings. Distances are ground distances and coordinates are ground coordinates.

Monument verification and acceptance: The monumentation shown on these plans were based on an observation and evaluation of physical corroborating evidence in the field; and a review of existing drawings and notes readily available at the time the survey was prepared.

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN				
CHECKED			SURVEY CONTROL SHEET	
TEAM LEADER				
ROUTE SR 00	LOCATION PROJECT LOCATION			SHEET 2 OF 2
TRACS NO. H0000 01C			PROJECT NUMBER	___ OF ___

STD P-06.00

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	28	1	22	6	11	LB	
2	28	23	17.5	4	8.75	LB	
3	28	1	22	6	11	RC	
4	25	23	17.5	4	8.75	LB	
5	28	1	22	6	11	CC	

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments
1	28	4	0	
2	28	4	0	ADOT Standard Line Terminator; modify scale 4 times larger. LV/CO shall match the LV/CO of the text placed for that item
3	27	6	0	
4	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
5	28	1	0	
6	27	6	0	

NOTE : For project related sheets, see Standards P-02.10 & P-02.15

USER NOTES

Reference No. ▽	Comments
1	Locate top point of PI toward CC
2	Horizontal Control Point callouts are shown perpendicular to roadway ℄; some adjustment to Leader Lines may be necessary
3	Show Superelevation 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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE GEOMETRIC SHEET
FOR RURAL ROADWAY

DRAWING NO.
P-06.10
Sheet 1 of 2

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PROJ. NUMBER			
		RT CO MP			

DATE- | LOCATION- | REVISIONS- | FINISHED PLANS- | SURVEY NO.

STA 182+00 SB
BEGIN PROJECT F-035-1(8)
N 1104153.38
E 666949.88

SB 00.00+00.00 POT
151'
N 22°40'31" W
N 22°40'31" W
NB 00.00+00.00 POT

BEARING EQUATION
N 22°25'25" W Bk =
N 22°40'31" W Ahd

SB 194+61.46 SC
SB 193+61.46 TS
NB 191+76.37 TS
NB 191+10.37 SC

CS 212+94.74 SB
ST 215+19.74 SB
CS 213+34.65 NB
ST 215+59.65 NB

EQUATION
POT 233+35.30 SB Bk =
POT 234+20.86 SB Ahd

EQUATION
POT 232+33.35 NB Bk =
POT 234+20.86 NB Ahd

72'

N 25°53'10" E
N 25°53'10" E

PC 256+04.05 SB
PC 261+29.84 NB

STA 188+00 NB
BEGIN PROJECT F-035-1(8)
N 1104212.75
E 667091.98

(1) CURVE DATA
NB PI Sta 204+37.98
N 1107846.34
E 665573.85

Total Curve	Main Curve	Spiral Curve
Δ=48°33'41"Rt	Δ=43°29'56"	Δ=02°31'53"
T=1,261.61	D=02°15'00"	L=225.00'
L=2,383.28'	R=2,546.48'	o=0.83'
R+o=2,547.31'	L=1,933.28	t=112.49'
Ext=248.02'	Super=0.061'/ft	

(2) CURVE DATA
SB PI Sta 203+98.07
N 1107750.15
E 665447.14

Total Curve	Main Curve	Spiral Curve
Δ=48°33'41"Rt	Δ=43°29'56"	Δ=02°31'53"
T=1,261.61'	D=02°15'00"	L=225.00'
L=2,383.28'	R=2,546.48'	o=0.83'
R+o=2,547.31'	L=1,933.28'	t=112.49'
Ext=248.02'	Super=0.061'/ft	

(3) CURVE DATA
NB PI Sta 275+71.60
N 1114221.40
E 668667.51

Main Curve
Δ=14°20'32"Lt
D=00°30'00"
R=11,459.16'
L=2,868.45'
T=1,441.76'
Ext=90.34'
Super=NC

(4) CURVE DATA
SB PI Sta 270+45.81
N 1113779.80
E 668373.18

Main Curve
Δ=14°20'32"Lt
D=00°30'00"
R=11,459.16'
L=2,868.45'
T=1,441.76'
Ext=90.34'
Super=NC

PT 284+72.49 SB

EQUATION
POT 289+64.08 SB Bk =
POT 290+23.45 SB Ahd

200'
N 11°32'38" E
N 11°32'38" E

EQUATION
PT 289+98.28 NB Bk =
POT 290+23.45 NB Ahd

STA 466+00 SB
END PROJECT F-035-1(8)
N 1132978.57
E 670785.96

EQUATION
POT 466+00.00 SB Bk =
POT 466+16.10 SB Ahd

BEARING EQUATION
N 20°46'26" W Bk =
N 21°06'20" W Ahd

200'
N 11°32'38" E
N 11°32'38" E

TS 382+06.35 SB
SC 383+56.35 SB
CS 394+17.54 SB
ST 395+67.54 SB Bk =
POT 396+00.47 SB Ahd

110'
N 00°34'05" W
N 00°34'05" W

ST 463+71.41 SB
CS 461+71.41 SB
SC 453+61.11 SB
TS 451+61.11 SB

TS 377+98.63 NB
SC 379+48.63 NB
CS 390+09.82 NB
ST 391+59.82 NB
EQUATION
ST 396+00.43 NB Bk =
POT 396+00.47 NB Ahd

STA 458+00 NB
END PROJECT F-035-1(8)
N 1132265.30
E 670769.65

TS 454+67.07 NB
SC 458+42.07 NB
CS 470+07.69 NB
EQUATION
ST 473+82.69 NB Bk =
POT 473+82.08 NB Ahd
BEARING EQUATION
N 37°56'51" E Bk =
N 38°16'45" E Ahd
POT 473+73.67 SB

(5) CURVE DATA
NB PI Sta 384+81.51
N 1124900.73
E 670848.76

Total Curve	Main Curve	Spiral Curve
Δ=12°06'43"Lt	Δ=10°36'43"	Δ=00°45'00"
T=682.88'	D=01°00'00"	L=150.00'
L=1,361.19'	R=5,729.58'	o=0.16'
R+o=5,729.74'	L=1,061.19'	t=75.00'
Ext=32.32'	Super=0.030'/ft	

(6) CURVE DATA
SB PI Sta 388+89.23
N 1125340.25
E 670734.40

Total Curve	Main Curve	Spiral Curve
Δ=12°06'43"Lt	Δ=10°36'43"	Δ=00°45'00"
T=682.88'	D=01°00'00"	L=150.00'
L=1,361.19'	R=5,729.58'	o=0.16'
R+o=5,729.74'	L=1,061.19'	t=75.00'
Ext=32.32'	Super=0.030'/ft	

(7) CURVE DATA
NB PI Sta 464+56.11
N 1132879.47
E 670734.40

Total Curve	Main Curve	Spiral Curve
Δ=12°06'43"Lt	Δ=10°36'43"	Δ=00°45'00"
T=682.88'	D=01°00'00"	L=150.00'
L=1,361.19'	R=5,729.58'	o=0.16'
R+o=5,729.74'	L=1,061.19'	t=75.00'
Ext=32.32'	Super=0.030'/ft	

(8) CURVE DATA
SB PI Sta 457+71.66
N 1132193.98
E 670769.65

Total Curve	Main Curve	Spiral Curve
Δ=12°06'43"Lt	Δ=10°36'43"	Δ=00°45'00"
T=682.88'	D=01°00'00"	L=150.00'
L=1,361.19'	R=5,729.58'	o=0.16'
R+o=5,729.74'	L=1,061.19'	t=75.00'
Ext=32.32'	Super=0.030'/ft	

	NAME	DATE
DESIGN		
DRAWN		
CHECKED		
TEAM LEADER		

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY DESIGN SECTION

GEOMETRIC SHEET

ROUTE SR 00 | LOCATION PROJECT LOCATION | SHEET 2 OF 2

TRACS NO. H0000 01C | PROJECT NUMBER | ___ OF ___

STD P-06.10

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	28	1	22	6	11	LC	
2	28	23	17.5	4	8.75	LB	

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments
1	28	4	0	
2	28	4	0	ADOT Standard Line Terminator; modify scale 4 times larger. LV/CO shall match the LV/CO of the text placed for that item
3	27	6	0	
4	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item

NOTE : For project related sheet, see Standard P-06.12

USER NOTES

Reference No. ▽	Comments
1	Locate top point of PI toward CC

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

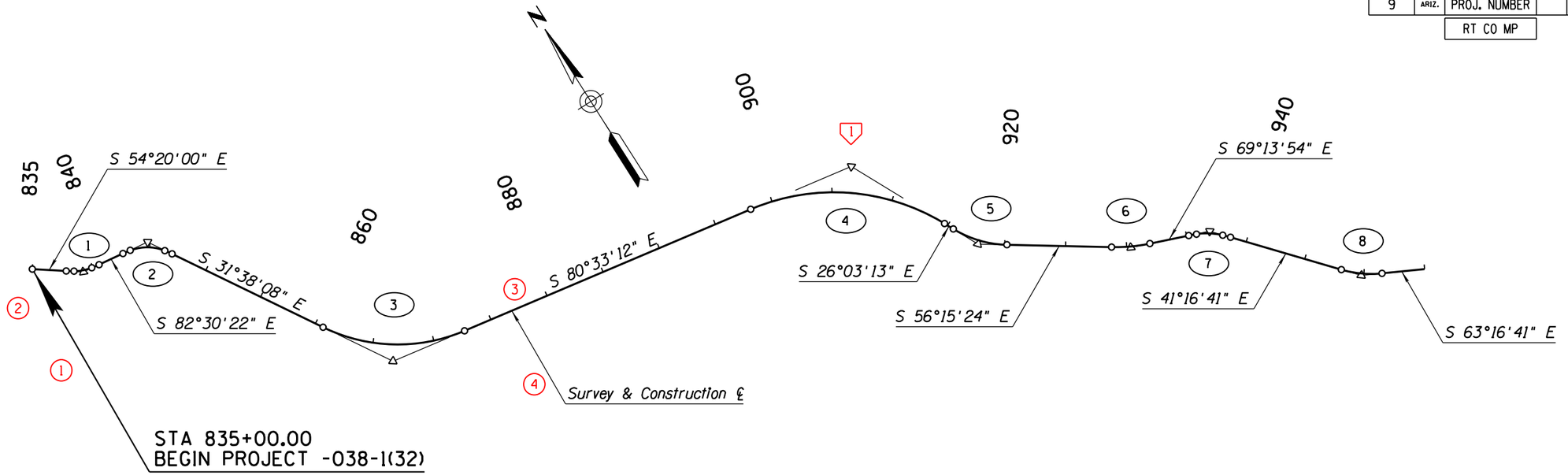
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

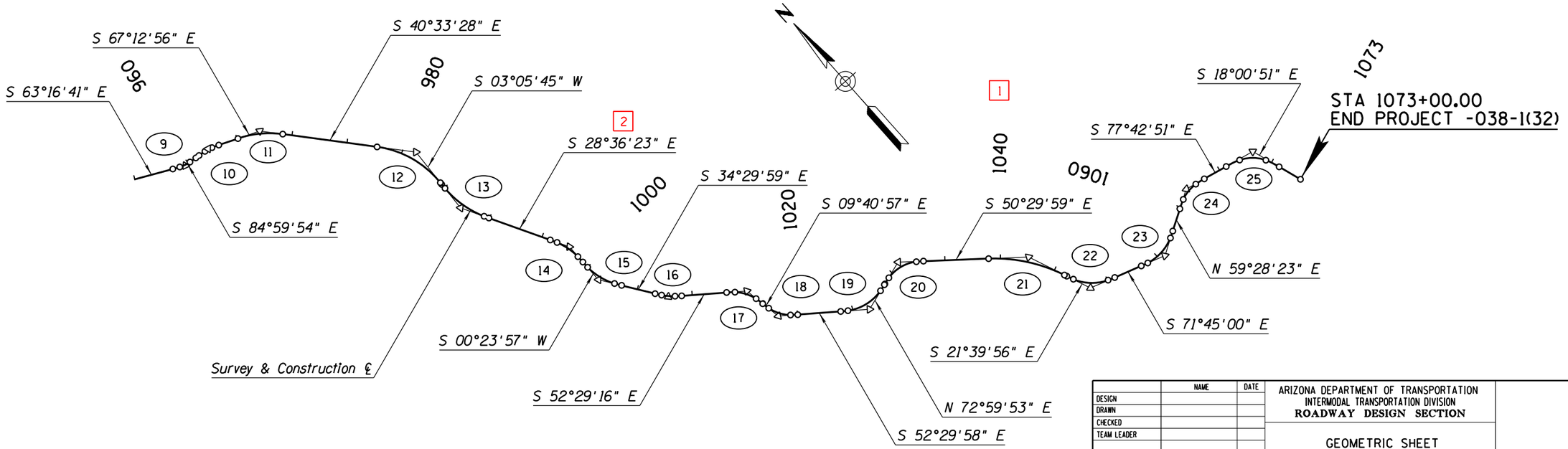
REV.

SAMPLE GEOMETRIC SHEET
FOR RURAL ROADWAY

DRAWING NO.
P-06.11
Sheet 1 of 2

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PROJ. NUMBER			
		RT CO MP			





	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN				
CHECKED			GEOMETRIC SHEET	
TEAM LEADER				
ROUTE SR 00	LOCATION PROJECT LOCATION			SHEET 2 OF 2
TRACS NO. H0000 01C			PROJECT NUMBER	___ OF ___

SURVEY NO. | FINISHED PLANS- | REVISIONS- | LOCATION- | DATE-

STD P-06.11

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	58	23	15	4	-	LB	Text justification is LC unless otherwise shown

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments

NOTE: For project related sheet, see Standard P-06.11

USER NOTES

Reference No. ▽	Comments
1	See Std P-00.60 for Data Table Layout

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

GEOMETRIC DATA SHEET

DRAWING NO.
P-06.12
Sheet 1 of 2

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

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

RT CO MP

DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

PLAN REF NO.	DESCRIPTION	Point Type	STATION	COORDINATES		Spiral Total					Spiral Main or Circular Curve							Spiral Curve			
				Northing	Easting	Total Delta	T	L	R+o	Ext	Δ	D	R	L	T	Ext	Super	Δ	L	o	t
	Survey & Construction ℄	POB	835+00.00	292935.35	128667.28																
1	Survey & Construction ℄	PI	839+19.09	292690.99	129007.75	28°10'23"Lt	141.75'	278.89'	435.40'	13.90'	19°36'41"	13°10'17"	435.00'	148.89'				4°16'51"	65.00'	0.40'	32.49'
	Survey & Construction ℄	TS	837+77.34	292773.64	128892.59																
	Survey & Construction ℄	SC	838+42.34	292737.08	128946.31																
	Survey & Construction ℄	CS	839+91.23	292682.58	129084.10																
	Survey & Construction ℄	ST	840+56.23	292672.51	129148.29																
2	Survey & Construction ℄	PI	844+95.53	292615.21	129583.85	50°52'14"Rt	222.94'	420.14'	400.44'	43.42'	41°33'36"	14°19'26"	400.00'	290.14'				4°39'19"	65.00'	0.44'	32.49'
	Survey & Construction ℄	TS	842+72.60	292644.29	129362.81																
	Survey & Construction ℄	SC	843+37.60	292634.07	129426.98																
	Survey & Construction ℄	CS	846+27.74	292479.78	129665.21																
	Survey & Construction ℄	ST	846+92.74	292425.40	129700.78																
3	Survey & Construction ℄	PI	867+06.38	290710.98	130756.97						48°55'04"Lt	4°05'33"	1400.00'	1195.29'	636.80'	138.02'					
	Survey & Construction ℄	PC	860+69.58	291253.16	130422.95																
	Survey & Construction ℄	PT	872+64.87	290606.46	131385.13																
4	Survey & Construction ℄	PI	907+11.36	290040.79	134784.89						54°29'59"Rt	3°17'34"	1740.00'	1655.08'	896.15'	217.21'					
	Survey & Construction ℄	PC	898+15.21	290187.88	133900.89																
	Survey & Construction ℄	PT	914+70.29	289235.71	135178.49																
5	Survey & Construction ℄	PI	917+92.27	288946.44	135319.91						30°12'10"Lt	6°30'39"	880.00'	463.88'	237.47'	31.48'					
	Survey & Construction ℄	PC	915+54.81	289159.78	135215.61																
	Survey & Construction ℄	PT	920+18.69	288814.54	135517.37																
6	Survey & Construction ℄	PI	930+35.41	288249.77	136362.81						12°58'30"Lt	4°05'33"	1400.00'	317.04'	159.20'	9.02'					
	Survey & Construction ℄	PC	928+76.21	288338.21	136230.42																
	Survey & Construction ℄	PT	931+93.25	288193.32	136511.66																
7	Survey & Construction ℄	PI	936+94.11	288015.72	136979.98	27°57'13"Rt	176.93'	347.97'	580.30'	18.01'	21°31'57"	9°52'43"	580.00'	217.97'				3°12'38"	65.00'	0.30'	32.50'
	Survey & Construction ℄	TS	935+17.18	288078.46	136814.54																
	Survey & Construction ℄	SC	935+82.18	288054.29	136874.87																
	Survey & Construction ℄	CS	938+00.15	287930.79	137052.92																
	Survey & Construction ℄	ST	938+65.15	287882.75	137096.70																
8	Survey & Construction ℄	PI	949+82.70	287042.89	137833.97						22°00'01"Lt	6°30'39"	880.00'	337.90'	171.06'	16.47'					
	Survey & Construction ℄	PC	948+11.65	287171.44	137721.12																
	Survey & Construction ℄	PT	951+49.54	286965.98	137986.75																
9	Survey & Construction ℄	PI	959+72.13	286596.09	138721.48	21°43'12"Lt	116.98'	231.80'	440.40'	8.43'	13°15'21"	13°01'18"	440.00'	101.80'				4°13'55"	65.00'	0.40'	32.49'
	Survey & Construction ℄	TS	958+55.15	286648.70	138617.00																
	Survey & Construction ℄	SC	959+20.15	286620.91	138675.74																
	Survey & Construction ℄	CS	960+21.94	286593.15	138773.44																
	Survey & Construction ℄	ST	960+86.94	286585.89	138838.02																
10	Survey & Construction ℄	PI	962+24.47	286573.90	138975.03	17°46'58"Rt	101.39'	201.56'	440.40'	5.76'	9°19'07"	13°01'18"	440.00'	71.56'				4°13'55"	65.00'	0.40'	32.49'
	Survey & Construction ℄	TS	961+23.08	286582.74	138874.02																
	Survey & Construction ℄	SC	961+88.08	286575.49	138938.60																

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

	NAME	DATE
DESIGN		
DRAWN		
CHECKED		
TEAM LEADER		

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY DESIGN SECTION

GEOMETRIC DATA SHEET

ROUTE: SR 00 | LOCATION: PROJECT LOCATION | SHEET 2 OF 2

TRACS NO. H0000 01C | PROJECT NUMBER | ___ OF ___

STD P-06.12

CADD TEXT PARAMETERS

Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	28	23	17.5	4	8.75	LB	TJ may be adjusted to fit condition
2	25	23	17.5	4	8.75	LB	TJ may be adjusted to fit condition
3	43	23	17.5	4	8.75	CB	
4	14	23	15	2	7.5	LB	
5	28	23	17.5	6	8.75	LB	
6	29	23	15	2	7.5	LB	
7	28	1	22	6	11	LB	

GRAPHIC PARAMETERS

Reference No.	LV/CO=	WT=	LC=	Comments
1	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
2	-	-	-	ADOT Standard Line Terminator, typical. LV/CO shall match the LV/CO of the text placed for that item
3	59	2	1	Area Pattern: (Patl) pattern angle = 45°; pattern delta= 7 working units

NOTE : For project related sheets, see Standards P-02.20, P-07.20 & P-08.20

USER NOTES

Reference No.	Comments

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

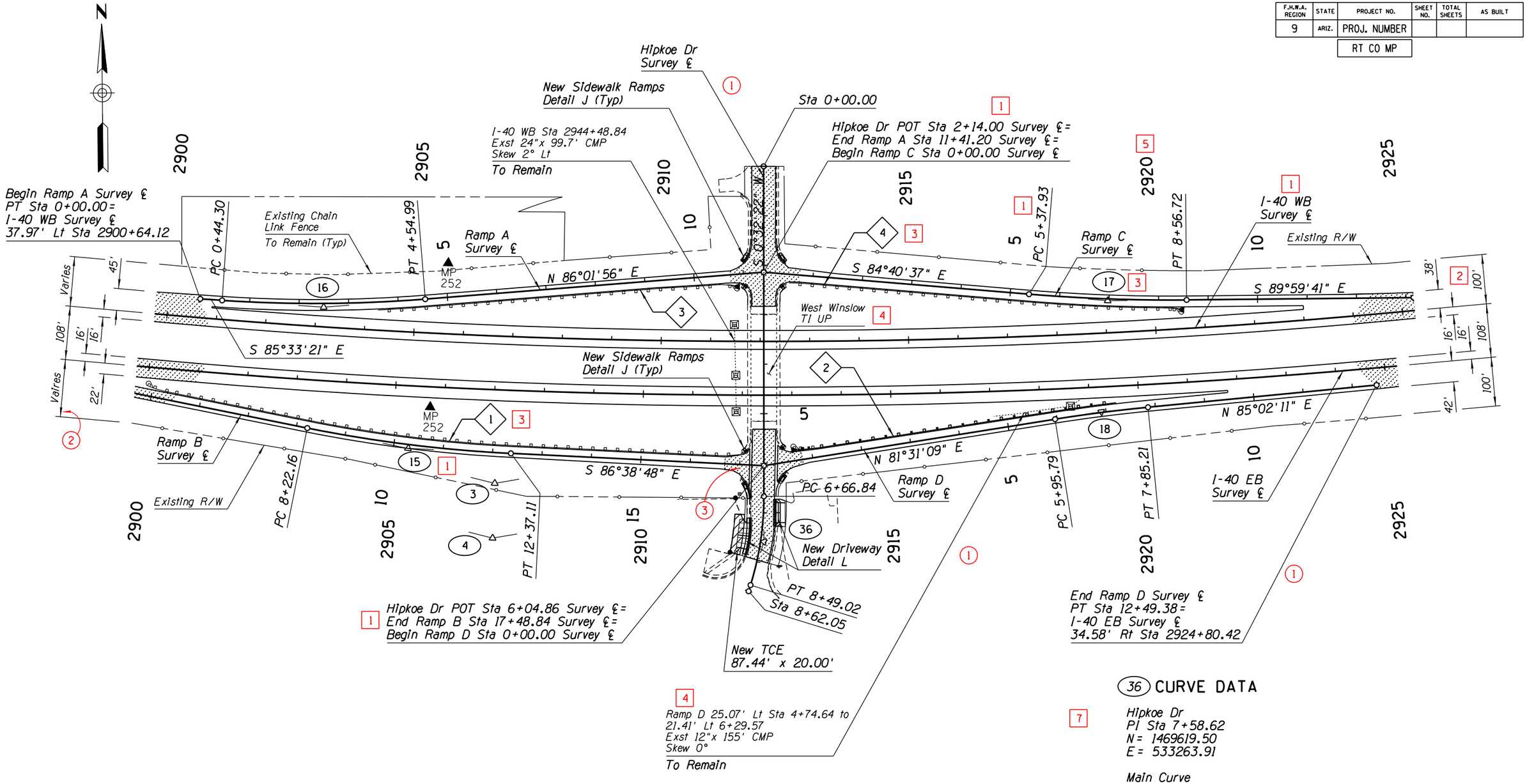
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE PLAN SHEET FOR
PAVEMENT PRESERVATION PROJECT

DRAWING NO.
P-07.10
Sheet 1 of 2

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PROJ. NUMBER			
		RT CO MP			



(3) CURVE DATA

I-40 WB
PI Sta 2907+16.20
N = 1469742.99
E = 532721.22

Main Curve
R = 13,699.02'
D = 0°25'05.69"
L = 5,659.02'
Δ = 23°40'07.28"Lt
T = 2,870.45'
Ext = 297.50'

(4) CURVE DATA

I-40 EB
PI Sta 2907+48.38
N = 1469632.33
E = 532715.69

Main Curve
R = 13,807.04'
D = 0°24'53.91"
L = 5,703.64'
Δ = 23°40'07.28"Lt
T = 2,893.08'
Ext = 299.85'

(15) CURVE DATA

Ramp B
PI Sta 10+30.03
N = 1469815.35
E = 532546.97

Main Curve
R = 2,756.86'
D = 2°04'41.87"
L = 414.95'
Δ = 8°37'26.00"Lt
T = 207.87'
Ext = 7.83'

(16) CURVE DATA

Ramp A
PI Sta 2+50.01
N = 1470102.39
E = 532379.25

Main Curve
R = 2,797.31'
D = 2°02'53.69"
L = 410.69'
Δ = 8°24'43.00"Lt
T = 205.71'
Ext = 7.55'

(17) CURVE DATA

Ramp C
PI Sta 6+97.44 Ramp A
N = 1470099.40
E = 533963.47

Main Curve
R = 3,434.77'
D = 1°40'05.21"
L = 318.79'
Δ = 5°19'04.00"Lt
T = 159.51'
Ext = 3.70'

(18) CURVE DATA

Ramp D
PI Sta 6+90.53
N = 1469875.10
E = 533948.31

Main Curve
R = 3,085.66'
D = 1°51'24.62"
L = 189.42'
Δ = 3°31'02.00"Rt
T = 94.74'
Ext = 1.45'

(36) CURVE DATA

Hipkoe Dr
PI Sta 7+58.62
N = 1469619.50
E = 533263.91

Main Curve
R = 604.85'
D = 9°28'21.55"
L = 182.18'
Δ = 17°15'25.71"Rt
T = 91.78'
Ext = 6.92'

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN			PLAN SHEET Sta 2900+00 to 2925+00	
CHECKED				
TEAM LEADER				
ROUTE SR 00	LOCATION		PROJECT LOCATION	SHEET 2 OF 2
TRACS NO. H0000 01C			PROJECT NUMBER	___ OF ___

STD P-07.10

SURVEY NO. | FINISHED PLANS | REVISIONS | LOCATION | DATE

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	21	1	22	2	-	LC	
2	28	1	22	6	-	LC	
3	28	1	22	6	-	LB	
4	25	23	15	2	7.5	CB	
5	29	23	15	2	7.5	LB	
6	21	23	15	2	7.5	LB	
7	30	23	17.5	4	8.75	LB	

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments
1	28	4	0	
2	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
3	28	4	0	ADOT Standard Line Terminator; modify scale 4 times larger
4	-	-	-	ADOT Standard Line Terminator, typical. LV/CO shall match the LV/CO of the text placed for that item
5	59	2	1	Area Pattern: (Patl) pattern angle = 45°; pattern delta= 7 working units

NOTE : For project related sheets, see Standards P-02.20, P-07.21 & P-08.20

USER NOTES

Reference No. ▽	Comments
1	See Std P-00.30 for graphic representation of pipe
2	Area pattern is for new AC pavement. Pattern angle may be modified to 45° from the roadway centerline, depending upon centerline position

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE PLAN SHEET FOR
RURAL UNDIVIDED ROADWAY

DRAWING NO.
P-07.20
Sheet 1 of 2

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

RT CO MP

390 395 400 405 410 415

STA 395+00
BEGIN PROJECT BP-063-2-310
N 1170816.21
E 558537.61

Lt Sta 395+00 to 415+00
2,550 Lin Ft New Barbed Wire Game Fence
Std C-12.10

Lt Sta 397+44
New Type 2 Gate
Std C-12.10

Lt Sta 399+20 to 404+50
530 Lin Ft New Concrete Embankment Curb
Std C-05.10

Lt Sta 406+00
40'x 112' New ACTO Type A
Std C-06.10
New 7 Unit Cattle Guard
HS-10,
Std C-11.10

US 95 Sta 405+94 = County Road Sta 20+00

New TCE

Lt Sta 412+10 to 413+20
110 Lin Ft New Flood Gate
Std C-12.10

Lt Sta 410+75 to 414+20
345 Lin Ft New Concrete Embankment Curb
Std C-05.10

360' Taper Lt & Rt
38' to 32' Lt
26' to 20' Rt

+80 +40

Exst R/W
ST 392+53.21
New R/W
Survey & Cst ℄
50'R (Typ)
N 45°35'52" E

200' 32' 20' 38' +50 54' 26' +30 64' +05 72' +20 52' 20' 150'

Exst R/W
New R/W
460' Taper Lt & Rt
32' to 38' Lt
20' to 26' Rt
+60 +20

Sta 393+32
Exst 72" x 236' CMP
Skew 32° Lt
To Remain

Rt Sta 395+00 to 415+00
2,571 Lin Ft New Game Fence
Dtl A

Rt Sta 402+10 to 403+30
120 Lin Ft New Concrete Embankment Curb
Std C-05.10

Rt Sta 412+15 to 413+05
90 Lin Ft New Concrete Embankment Curb
Std C-05.10

Rt Sta 412+02 to 413+62
160 Lin Ft New Flood Gate
Std C-12.10

Rt Sta 410+10 to 411+20
110 Lin Ft New Concrete Embankment Curb
Std C-05.10

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN				
CHECKED			PLAN SHEET Sta 390+00 to 415+00	
TEAM LEADER				
ROUTE SR 00	LOCATION PROJECT LOCATION			SHEET 2 OF 2
TRACS NO. H0000 01C			PROJECT NUMBER	___ OF ___

STD P-07.20

DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

CADD TEXT PARAMETERS

Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	14	23	15	2	7.5	LB	
2	39	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown
3	28	1	22	6	11	LC	
4	19	23	15	2	7.5	LB	
5	28	1	22	6	11	CB	
6	28	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown
7	25	23	17.5	4	8.75	CB	
8	30	23	17.5	4	8.75	LB	
9	36	23	17.5	4	8.75	LB	
10	30	23	17.5	4	8.75	LB	
11	62	23	15	2	7.5	LB	
12	62	1	20	6	-	CB	Use data fields supplied with cell
13	62	23	15	2	7.5	LB	
14	29	23	15	2	7.5	LB	
15	14	23	17.5	4	8.75	LB	
16	29	23	17.5	4	8.75	LB	

GRAPHIC PARAMETERS

Reference No.	LV/CO=	WT=	LC=	Comments
1	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
2	35	3	0	
3	16	1	3	
4	48	3	0	
5	59	1	0	
6	27	6	0	
7	38	3	0	

The subdued background shown can be produced by using a modified pen table. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.

NOTE: For project related sheets, see Standards P-05.10 & P-05.25

USER NOTES

Reference No.	Comments
1	See Std P-00.70 for Profile Sheet Overlay
2	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE PLAN & PROFILE SHEET FOR
RURAL UNDIVIDED ROADWAY

DRAWING NO.
P-07.25
Sheet 1 of 2

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

RT CO MP

8 Lt Sta 750+00 to 775+00
2,367 Lin Ft New BW Game Fence
Std C-12.10

1 Sta 751+14
Existing 24"x 52" CMP
Cap & Fill
Dtl C

Existing US 89A

14 Lt & Rt Sta 750+00 to 780+00
6,000 Lin Ft Exst BW Game Fence
Remove 16

Lt Sta 761+75
Existing 24"x 52" CMP
Remove

9 Lt Sta 768+55
New 20'x 80' ACTO
Type A, R=25'
Std C-06.10
New 3 Unit CG
Std C-11.20
New 14' Gate, Type 1,
Std C-12.10

10 New TCE

New R/W

750 760 765 770 775

100' 20' 20' 100'

N 80°53'38" E

150'

PC 752+19.63

PT 758+19.63

N 89°53'38" E

TS 763+76.91

SC 766+16.91

CS 771+11.77

EQUATION Bk = ST 773+51.77 Ahd
POT 774+49.94 Ahd

24' Lt, Sta 772+71,
10'X 3'X 25' New Dike
10:1 Slope (Typ), Elev=4013.50
Std C-03.10

Rt Sta 750+00 to 775+00
2,535 Lin Ft New BW Game Fence
Std C-12.10

Survey & Cst ℄

BE 1

PE 2 CB 1

N

5 CURVE DATA

PI Sta 755+20.25

Main Curve
Δ=9°00'00" Rt
D=1°30'00"
R=3,819.72'
L=600.00'
T=300.62'
Ext=11.81'
Super=0.041⅓ft

6 CURVE DATA 5

6 PI Sta 768+73.03 N 141605.58 E 512168.64

Total Curve	Main Curve	Spiral Curve
Δ=29°23'40" Lt	Δ=19°47'40"	Δ=4°48'00"
T=496.12'	D=4°00'00"	L=240.00'
L=974.86'	R=1,432.39'	o=1.68'
R+o=1,434.07'	L=494.86'	t=119.97'
Ext=50.19'	Super=0.060⅓ft	a=1⅔

BM 74.8
3" NGS BC In Rock
Stamped D-493 1982
67' Lt US 89A Sta 758+26.5
Elev=4054.47

PI 760+00
Elev=4052.00
Corr=-12.64

New 500' Crown Ditch Rt
Std C-03.10

Existing Groundline

Finished ℄ Grade

BM 75.7
5/8" Iron Pin
37.1' Lt US 89A Sta 767+20.6
Elev=4032.14

BM 76.2
5/8" Iron Pin
70' Rt US 89A Sta 772+39
Elev=4018.21

EQUATION

+2.4545%

-2.8666%

-0.5600%

+50

+50

+51.77

1900' VC
SDs=878.00'

300' VC
SDh=981'

PI 772+01.77
Elev=4017.55
Corr=+0.87'

ST 773+51.77 Bk =

POT 774+49.94 Ahd

Q_{100} =15.3 CFS
HW_{100}=4036.34

Q_{25} =9.7 CFS
HW_{25}=4001.64

Q_{100} =24.6 CFS
HW_{100}=4031.08

Q_{25} =20.4 CFS
HW_{25}=4019.98

Q_{100} =18.7 CFS
HW_{100}=4022.85

Q_{25} =14.6 CFS
HW_{25}=4010.51

4060 4050 4040 4030 4020 4010 4000 3990

750 755 12 760 765 770 775

	NAME	DATE
DESIGN		
DRAWN		
CHECKED		
TEAM LEADER		

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY DESIGN SECTION

PLAN AND PROFILE
Sta 750+00 to 775+00

ROUTE SR 00 | LOCATION PROJECT LOCATION | SHEET 2 OF 2

TRACS NO. H0000 01C | PROJECT NUMBER ___ OF ___

STD P-07.25

DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

CADD TEXT PARAMETERS

Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	28	1	22	6	11	LC	
2	28	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown
3	25	23	17.5	4	8.75	CB	
4	45	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown
5	30	23	17.5	4	8.75	LB	
6	19	23	15	2	7.5	LB	
7	10	1	15	2	7.5	CB	
8	29	23	15	2	7.5	LB	
9	29	23	17.5	4	8.75	LT	
10	30	23	17.5	4	8.75	LT	
11	3	23	15	2	7.5	LB	
12	21	23	15	2	7.5	LB	TJ is LB unless otherwise shown
13	30	23	17.5	4	8.75	LB	
14	12	23	15	2	7.50	LB	
15	41	23	17.5	4	8.75	LT	
16	24	23	15	2	7.5	LB	

GRAPHIC PARAMETERS

Reference No.	LV/CO=	WT=	LC=	Comments
1	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
2	-	-	-	ADOT Standard Line Terminator, typical. LV/CO shall match the LV/CO of the text placed for that item

NOTE: For project related sheets, see Standards P-02.30, P-02.31, P-08.30, P-12.20, & P-13.20

USER NOTES

Reference No.	Comments

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE PLAN SHEET FOR
URBANIZED AREA ROADWAY

DRAWING NO.
P-07.30
Sheet 1 of 2

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

RT CO MP

DATE- | LOCATION- | REVISIONS- | FINISHED PLANS- | SURVEY NO.

1115 1116 1117 1118 1119 1120

S 89°09'31" W

19

21

+38.09

24' 24'

+37.88

US 95 Survey & Cst ℄ Sta 1115+99.18 = 28th Street Survey ℄ Sta 20+00

US 95 Survey & Cst ℄ Sta 1116+17 = 28th Street Cst ℄ Sta 20+00

30'R (Typ)

FLOOR ELEV. 121.11

New TCE

New TCE

New TCE

New TCE

New R/W

Existing R/W

Existing Conc Light Pole Base
Remove

Existing Sidewalk
Remove Within R/W
New 40 Sq Ft
3' Concrete Sidewalk
Std C-05.20

Existing EP

Existing EP

New R/W

New TCE

New TCE

New Sidewalk Ramp
Type B (Typ)
Std C-05.30

40'Rt Sta 115+12 to 70' Rt Sta 115+12
30 Lin Ft Existing Wood Fence
Remove

Fnd Brass Cap Set In Concrete Stamped AHD
PI Sta 1116+17.00 (Survey ℄)
∢=0°01'56" Rt
POT Sta 1116+17.00 (Cst & Survey ℄)=
Section 1/4 Corner Sta 20+00 (28th St)
∢=01°05'33" Lt

Rt Sta 116+10 to Sta 1118.64
Existing Concrete Curb
Remove
Rt Sta 1117+15 to 1118+64
152 Lin Ft New Conc Single Curb
Type A, h=7"
Std C-05.10

Existing Conc Light Pole Base
Remove

30' DC +28 | 25' DC +60 | 25' DC +15 | 30' DC +75

28' DC +78 | 30' DC +00

45' 40' 32' | 48' 40' 32' | 32' 40' 45' | 32' 40' 48'

+61.73 34.31' Rt 45.95' Rt +87.16
+73.05 34.31' Rt +69.85
+45.43 45.65' Rt +59.77 34.41' Rt
+62.89 +74.53 33.98' Lt 45.36' Lt +91.65
+45.11 46.17' Lt +58.91 34.35' Lt +71.14

PSWP 14" PSWP 14"

US 95 Survey & Cst ℄ N 0°56'21" W

US 95 Survey & Cst ℄ N 0°58'17" W

28th Street Survey ℄ N 89°03'39" E

28th Street Cst ℄ S 89°44'56" E

+63.11 +60.68

24' 24'

50'

	NAME	DATE
DESIGN		
DRAWN		
CHECKED		
TEAM LEADER		

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY DESIGN SECTION

PLAN SHEET
Sta 1115+00 to 1120+00

ROUTE SR 00 | LOCATION PROJECT LOCATION | SHEET 2 OF 2

TRACS NO. H0000 01C | PROJECT NUMBER ___ OF ___

STD P-07.30

CADD TEXT PARAMETERS

Reference No. [ ]	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
[1]	28	1	22	6	11	LC	
[2]	28	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown
[3]	25	23	17.5	4	8.75	CB	
[4]	45	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown
[5]	30	23	17.5	4	8.75	LB	
[6]	19	23	15	2	7.5	LB	
[7]	29	1	15	2	7.5	CB	

GRAPHIC PARAMETERS

Reference No. ( )	LV/CO=	WT=	LC=	Comments
(1)	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
(2)	-	-	-	ADOT Standard Line Terminator, typical. LV/CO shall match the LV/CO of the text placed for that item

NOTE: For project related sheets, see Standards P-02.30, P-02.31, P-08.30, P-12.20, & P-13.20

USER NOTES

Reference No. ▽	Comments

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

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

[ ] - Text Reference Callout
( ) - Graphic Reference Callout
▽ - User Note Reference Callout

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

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE PLAN SHEET FOR
URBANIZED AREA ROADWAY

DRAWING NO.
P-07.31
Sheet 1 of 2

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

RT CO MP

Bethany Home Rd Cst ℄

End Bethany Home Rd Ramp A Cst ℄ Sta 28+37.89 =
Bethany Home Rd Cst ℄ Sta 17+88.08

Begin Bethany Home Rd Ramp C Cst ℄ Sta 10+00.00 =
Bethany Home Rd Cst ℄ Sta 18+00.00 [2]

Bethany Home Rd
Ramp C Cst ℄
Dwg No C-8.05

New R/W [5]

Exst R/W

West Channel

11.50' Rt, Sta 22+32.63, Bethany Home Rd Ramp C Cst ℄ =
117.51' Lt, Sta 557+38.58, 303L Cst ℄
Back of Gore

100.50' Rt, Sta 557+79.48, 303L Cst ℄ =
Sta 22+51.47, Bethany Home Rd Ramp D Cst ℄
Nose of Gore Control Point [4]

See Gore Staking
Dwg No C-8.11 [2]

N 01°20'35" E

N 09°46'08" E

N 00°10'24" E

S 89°39'25" E

N 04°31'27" W

303L Cst ℄

Exst Edge of Pavement [6]

Taper

+50 26' Rt

+00 8' Rt

+34 14' Rt

10:1

Varies

See Irrigation Pipe
Sleeve Location Plan

Mid-Section Line [7]

Limit of Construction

11.50' Lt, Sta 21+33.47, Bethany Home Rd Ramp D Cst ℄ =
97.50' Rt, Sta 556+59.97, 303L Cst ℄
Back of Gore [4]

Bethany Home Rd Ramp D Cst ℄
See Dwg No. C-8.07

40' Adaman Future
Property Line

See Gore Staking
Dwg No. C-8.12

End Bethany Home Rd Ramp B Cst ℄ Sta 29+68.34 =
Bethany Home Rd Cst ℄ Sta 22+00.04

Begin Bethany Home Rd Ramp D Cst ℄ Sta 10+00.00 =
Bethany Home Rd Cst ℄ Sta 22+12.00 [2]

	NAME	DATE
DESIGN		
DRAWN		
CHECKED		
TEAM LEADER		

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY DESIGN SECTION

PLAN SHEET
Sta 544+00 to 558+00

ROUTE SR 00 | LOCATION PROJECT LOCATION | SHEET 2 OF 2

TRACS NO. H0000 01C | PROJECT NUMBER | ___ OF ___

STD P-07.31

DATE- | LOCATION- | REVISIONS- | FINISHED PLANS- | SURVEY NO.

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	62	23	15	2	7.5	LB	
2	62	1	20	2	-	CC	Use data fields supplied with cell and change weight
3	62	1	20	6	-	CC	Use data fields supplied with cell
4	39	23	17.5	4	8.75	LB	
5	28	23	17.5	4	8.75	CB	TJ=CT if text string is placed under text line
6	28	1	22	6	11	LB	TJ=LT if text string is placed under text line
7	28	23	17.5	4	8.75	LB	
8	21	23	15	2	7.5	LB	

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments
1	20	1	3	
2	28	4	0	ADOT Standard Line Terminator; modify scale 4 times larger
3	59	1	0	
4	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
5	-	-	-	ADOT Standard Line Terminator, typical. LV/CO shall match the LV/CO of the text placed for that item
6	38	3	0	
7	13	1	5	
8	27	6	0	
9	28	4	0	
10	48	3	0	

NOTE: For project related sheets, see Standards P-02.20, P-07.20 & P-07.21

USER NOTES

Reference No. ▽	Comments
1	See Std P-00.70 for Profile Sheet Overlay
2	Double Line Terminators are shown for continuation on an adjacent sheet

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE PROFILE SHEET FOR
RURAL UNDIVIDED ROADWAY

DRAWING NO.
P-08.20
Sheet 1 of 2

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

RT CO MP

DATE- | LOCATION- | REVISIONS- | FINISHED PLANS- | SURVEY NO.

DATE- | LOCATION- | REVISIONS- | FINISHED PLANS- | SURVEY NO.

1 BM #40-100.0' Rt ℄ Sta 400+00
⅝" IP&G Elev=470.47

BM #41-100.0' Rt ℄ Sta 409+70
⅝" IP&G Elev=434.51

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

3

480 470 460 450 440 430 420 410 400 390

5 1000' VC
SDh=1263'

8 Existing ℄ Grade

-3.4375 %

1 Existing Groundline

-3.4375 %

7 Finished ℄ Grade

-0.2778 %

Q_{100} =139.0 CFS
HW_{100}=454.67
Q_{50} =120.0 CFS
HW_{50}=442.24
4

2 1200' VC 8

7 PI 403+00.00
Elev=430.00'
Corr=+3.95'

Q_{100} =188.0 CFS
HW_{100}=430.07
Q_{50} =165.0 CFS
HW_{50}=397.62

Q_{100} = 43.0 CFS
HW_{100}=412.19
Q_{50} = 32.0 CFS
HW_{50}=396.89

Q_{100} = 301 CFS
HW_{100}=412.19
Q_{50} = 279 CFS
HW_{50}=399.34
4

1

480 470 460 450 440 430 420 410 400 390

2 3

390 395 400 405 410 415

	NAME	DATE
DESIGN		
DRAWN		
CHECKED		
TEAM LEADER		

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY DESIGN SECTION

PROFILE SHEET
Sta 390+00 to 415+00

ROUTE SR 00 | LOCATION PROJECT LOCATION | SHEET 2 OF 2

TRACS NO. H0000 01CC | PROJECT NUMBER | ___ OF ___

STD P-08.20

CADD TEXT PARAMETERS

Reference No. [ ]	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
[1]	62	1	20	6	11	CB	
[2]	28	23	17.5	4	8.75	LB	
[3]	62	23	15	2	7.5	LB	
[4]	45	23	17.5	4	8.75	LB	

GRAPHIC PARAMETERS

Reference No. ( )	LV/CO=	WT=	LC=	Comments
(1)	◑	1		◑ Dimension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
(2)	-	-	-	ADOT Standard Line Terminator; typical. LV/CO shall match the LV/CO of the text placed for that item
(3)	27	6	0	
(4)	20	1	3	
(5)	59	1	0	
(6)	44	3	0	

NOTE: For project related sheets, see Standards P-02.30, P-02.31, P-07.30, P-12.20 & P-013.20

USER NOTES

Reference No. ▽	Comments
1	Double Line Terminators are shown for continuation on the adjacent sheet
2	See Std P-00.70 for Profile Sheet Overlay
3	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout

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

[ ] - Text Reference Callout
( ) - Graphic Reference Callout
▽ - User Note Reference Callout

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

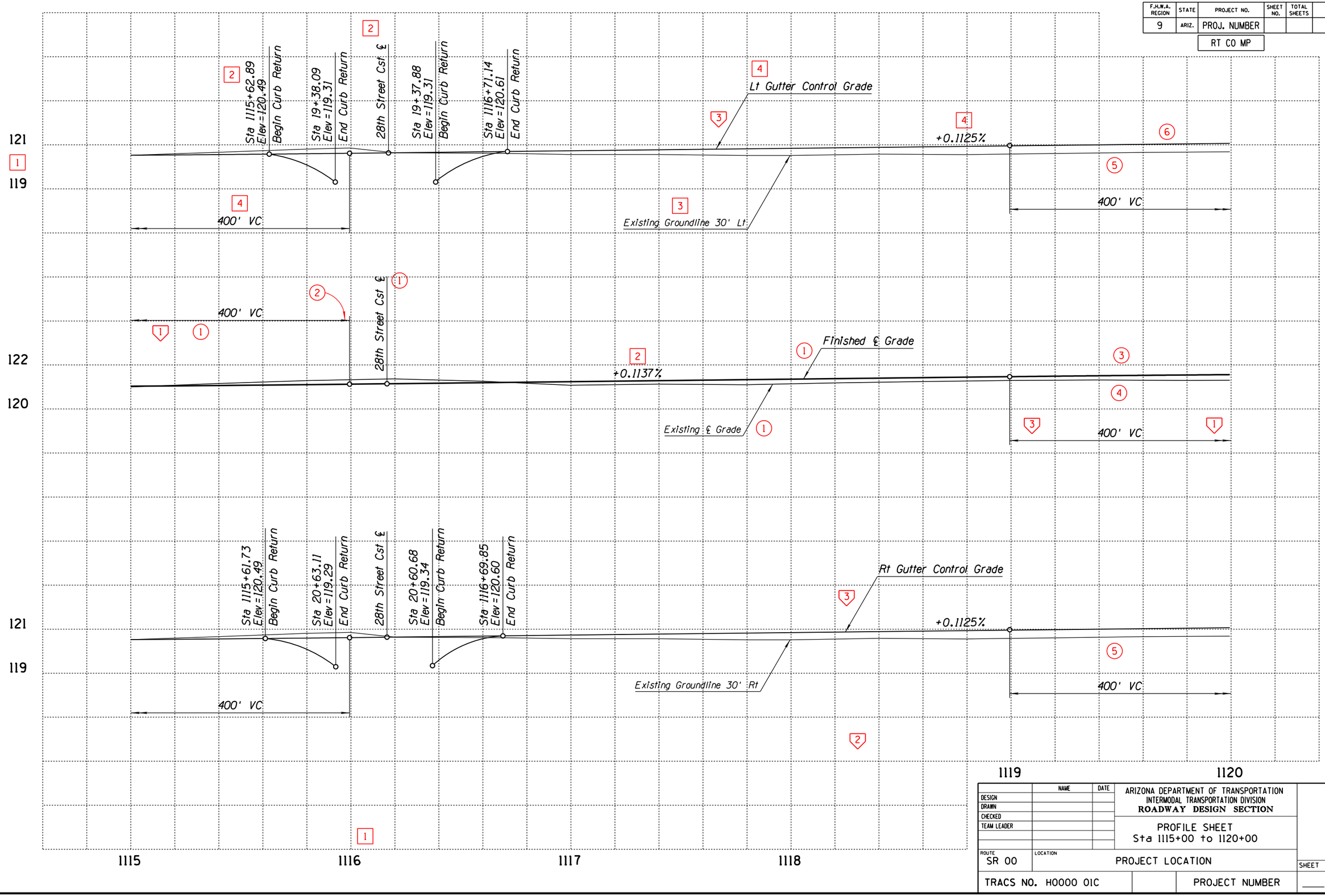
REV.

SAMPLE ROADWAY PROFILE SHEET
FOR URBANIZED AREA

DRAWING NO.
P-08.30
Sheet 1 of 2

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

RT CO MP



	NAME	DATE
DESIGN		
DRAWN		
CHECKED		
TEAM LEADER		

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY DESIGN SECTION

PROFILE SHEET
Sta 1115+00 to 1120+00

ROUTE	LOCATION	SHEET 2 OF 2
SR 00	PROJECT LOCATION	

TRACS NO. H0000 01C		PROJECT NUMBER	___ OF ___

STD P-08.30

DATE- | LOCATION- | REVISIONS- | FINISHED PLANS- | SURVEY NO.

CADD TEXT PARAMETERS

Reference No. [ ]	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
[1]	28	23	17.5	4	8.75	LB	

GRAPHIC PARAMETERS

Reference No. ( )	LV/CO=	WT=	LC=	Comments
(1)	48	3	0	
(2)	27	3	0	New Centerline shall be a weight of 3 only when shown on Storm Drain plan sheet
(3)	38	3	0	

NOTE: For project related sheet, see Standard P-13.15

USER NOTES

Reference No. < >	Comments

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

[ ] - Text Reference Callout
( ) - Graphic Reference Callout
< > - User Note Reference Callout

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

SAMPLE STORM DRAIN PLAN SHEET
FOR URBAN FREEWAY CROSSROAD

DRAWING NO.
P-12.15
Sheet 1 of 2

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

RT CO MP

DATE- | LOCATION- | REVISIONS- | FINISHED PLANS- | SURVEY NO.

Ramp A Cst ℄

Ramp B Cst ℄

Ramp C Cst ℄

Ramp D Cst ℄

McDowell Road Cst ℄

N

CB 1 | CB 2 | CB 3 | CB 4 | CB 5 | CB 6 | CB 7 | CB 8 | CB 9 | CB 10 | CB 11 | CB 12

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN			STORM DRAIN PLAN SHEET McDOWELL RD	
CHECKED				
TEAM LEADER				
ROUTE SR 00	LOCATION PROJECT LOCATION			SHEET 2 OF 2
TRACS NO. H0000 01C			PROJECT NUMBER	___ OF ___

STD P-12.15

CADD TEXT PARAMETERS

Reference No. [ ]	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
[1]	39	23	17.5	4	8.75	LB	
[2]	62	1	20	6	11	CB	
[3]	14	23	15	2	7.5	LB	

GRAPHIC PARAMETERS

Reference No. ( )	LV/CO=	WT=	LC=	Comments
(1)	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
(2)	38	3	0	
(3)	13	1	5	

NOTE: Do not use Line Terminators to callout elevations

NOTE: For project related sheet, see Standard P-12.10

USER NOTES

Reference No. ▽	Comments
[1]	See Std P-00.70 for Profile Sheet Overlay
[2]	Show slope in feet per foot to 4 decimal places
[3]	Show elevations to 2 decimal places
[4]	See Std P-00.61 for Leader Line Layout

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

[ ] - Text Reference Callout
( ) - Graphic Reference Callout
▽ - User Note Reference Callout

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

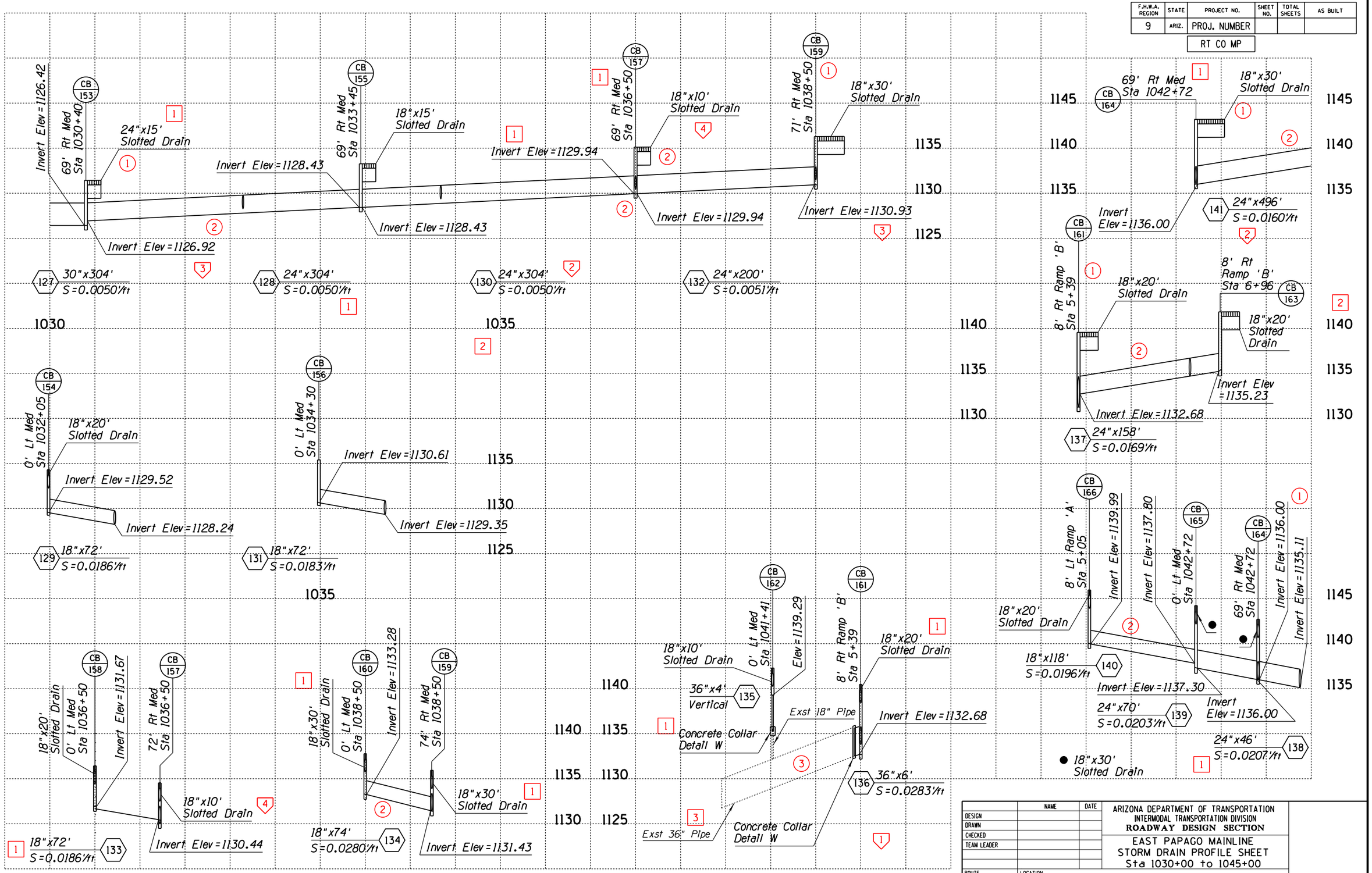
SAMPLE STORM DRAIN PROFILE
FOR URBAN FREEWAY MAINLINE

DRAWING NO.
P-13.10
Sheet 1 of 2

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

RT CO MP

DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.



	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION **ROADWAY DESIGN SECTION**	
DESIGN			EAST PAPAGO MAINLINE STORM DRAIN PROFILE SHEET Sta 1030+00 to 1045+00	
DRAWN				
CHECKED				
TEAM LEADER				
ROUTE SR 00	LOCATION PROJECT LOCATION			SHEET 2 OF 2
TRACS NO. H0000 01C			PROJECT NUMBER	___ OF ___

STD P-13.10

CADD TEXT PARAMETERS

Reference No. □	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	62	1	20	6	-	CB	Use data fields supplied with cell
2	39	23	17.5	4	8.75	LB	

GRAPHIC PARAMETERS

Reference No. ○	LV/CO=	WT=	LC=	Comments
1	38	3	0	
2	◑	1	0	◑ Dimension, Extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item

NOTE: Do not use Line Terminators to callout elevations
NOTE: For project related sheet, see Standard P-12.15

USER NOTES

Reference No. ▽	Comments
1	Show slope in feet per foot to 4 decimal places
2	Show elevations to 2 decimal places
3	See Std P-00.61 for Leader Line Layout
4	See Std P-00.70 for Profile Sheet Overlay

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

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

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

DESCRIPTION OF REVISION NO.

DESCRIPTION OF REVISION NO.

APPROVED FOR DISTRIBUTION

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN SECTION
DRAFTING GUIDES

REV.

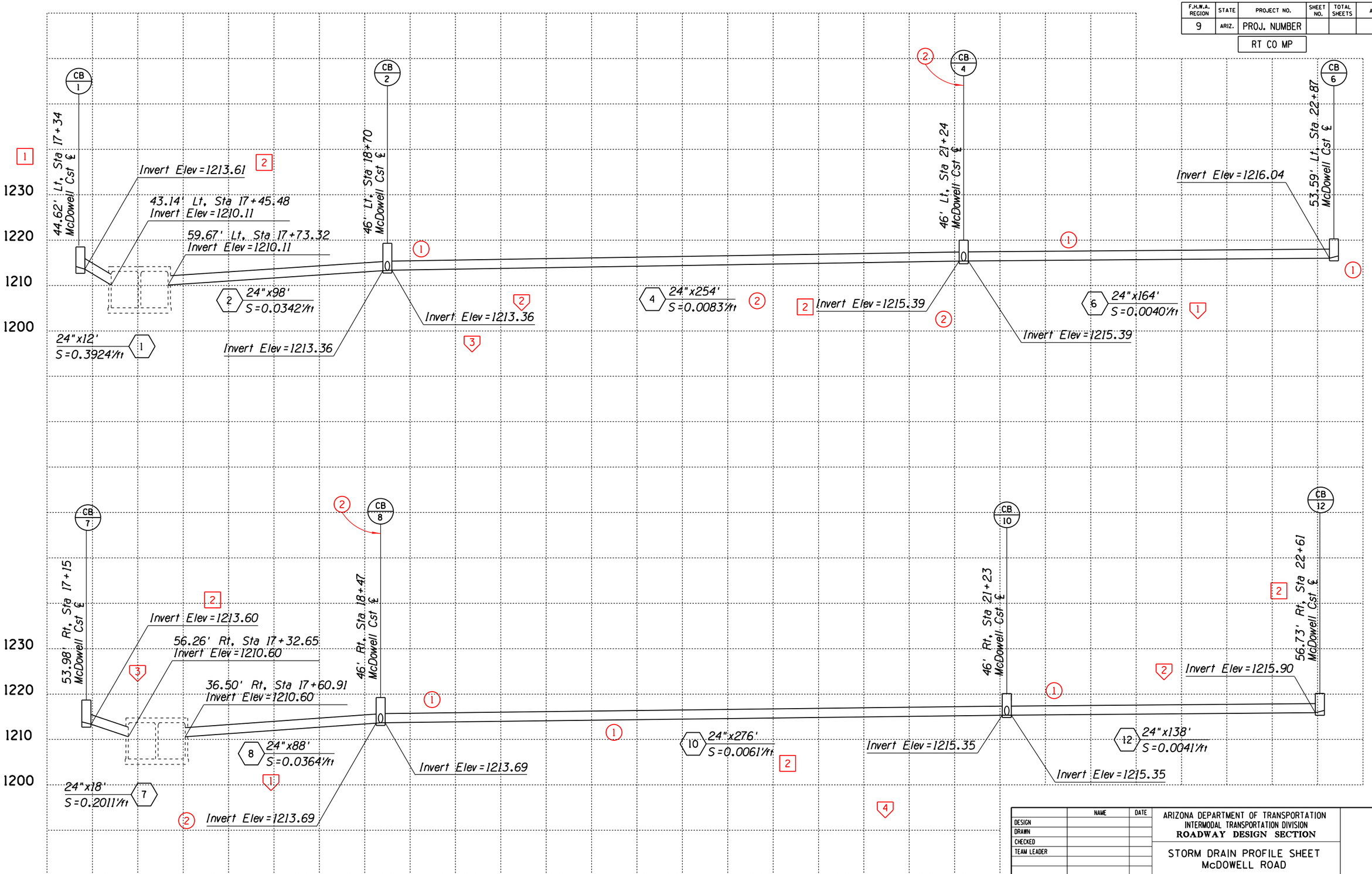
SAMPLE STORM DRAIN PROFILE SHEET
FOR URBAN FREEWAY CROSSROAD

DRAWING NO.
P-13.15
Sheet 1 of 2

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

RT CO MP

DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.



	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN				
DRAWN			STORM DRAIN PROFILE SHEET McDOWELL ROAD	
CHECKED				
TEAM LEADER				
ROUTE SR 00	LOCATION		PROJECT LOCATION	SHEET 2 OF 2
TRACS NO. H0000 01C			PROJECT NUMBER	___ OF ___

STD P-13.15