

ADOT TRAFFIC DESIGN CADD STANDARDS

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CHAPTER 1	INTRODUCTION	3
CHAPTER 2	LEVELS	5
CHAPTER 3	CELLS	6
CHAPTER 4	LINE STYLES	7
CHAPTER 5	CADD FILE NAMING	8
CHAPTER 6	REFERENCE FILES	10
CHAPTER 7	PRINTING AND PLOTTING	12
CHAPTER 8	SET UP FOR TYPICAL PLAN SHEETS	14
CHAPTER 9	RECORD DRAWINGS	17
CHAPTER 10	TOOLS	18
CHAPTER 11	MICROSTATION INTERFACE CUSTOMIZATION	21
APPENDIX 1	TRAFFIC DESIGN DRAFTING GUIDE EXAMPLE SHEETS	
APPENDIX 2	ADOT LEVEL STRUCTURE	
APPENDIX 3	SECTION 409 OF THE DICTIONARY OF STANDARDIZED TASKS	

APPENDIX 4 ADOT APPROVED LINE STYLES

CHAPTER 1 INTRODUCTION

The purpose of this manual is to establish uniform policies and procedures to ensure compliance with the Traffic Design Group's Computer Aided Design and Drafting (CADD) standards, to produce a plan set that is consistent in appearance, and to ensure quality.

This manual is intended to be used as a quick reference guide. Chapters are broken out by subject and sheet type. For more information regarding the Traffic Design Group's CADD Standards, visit the <u>web site</u>.

Drafting Standards for other Groups within ADOT can be found at their respective web sites and are not duplicated in this manual.

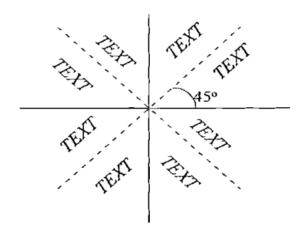
Although this manual contains information on MicroStation tools and functions, its intent is not to teach MicroStation, but to convey to the user established ADOT Traffic Design CADD Standards.

PLEASE NOTE:

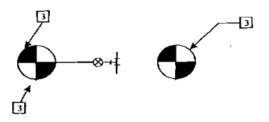
DRAFTING STANDARDS ARE ESSENTIAL IN PRODUCING A READABLE, CONSISTANT, QUALITY DOCUMENT. YOUR ATTENTION TO, AND USE OF THESE STANDARDS ARE IMPORTANT!

SOME HELPFUL DRAFTING TIPS:

- Text conflicts are not acceptable, ever.
- Spelling Use Spellcheck incorrect spelling and bad grammar are not acceptable.
- Do not highlight a redline as being completed unless it is 100% complete. Highlighting incomplete work is unacceptable.
- All text is to be read from the bottom and/or the right hand side – No exceptions.



- 5. No upside down text.
- Text same style/height/weight on every sheet – no exceptions.
- Lines same type/weight every sheet.
- 8. Leaders/Arrows Radial, Perpendicular, Trimmed.



Not Acceptable

- 9. Check to make sure that the callouts/information on the plan makes sense if 3 is for a fire hydrant, make sure it doesn't point to a valve. If you change inverts on a pipe you will have to revise the slope, etc.
- 10. Each time you run a plot it cannot look different (screening, etc.).
- 11. Use the correct levels/colors for everything.
- 12. Redlines are bad the less red the better. Any more than one redline to get something done is inefficient.
- 13. If you are not sure ASK!
- 14. Efficiency/Production are the goals.
- 15. Three Golden Rules:
 - a. Check your work
 - b. Check your work
 - c. Check your work
- 16. The final product must be clear and correct it's your job to ensure this.

CHAPTER 2 LEVELS

The ADOT Traffic Group uses the levels structure as defined in the ADOT Level Structure. Numerical values are used to designate the level names. Levels 1-63, (not Level 1, Level 2, etc.) or the original levels. Over the past few years additional level names have been added and incorporated, ADOT Traffic Design Group does not use any of the new levels, except level 295 which is a no-plot level. Level numbers and level names are the same allowing for key-ins "LV=1", etc.

NO FILES SHALL BE DEEMED ACCEPTABLE THAT CONTAIN ANY OTHER LEVELS OTHER THAN THOSE DEFINED IN THE ADOT LEVEL STRUCTURE

See Appendix 2, ADOT Level Structure.

CHAPTER 3 CELLS

In the spring of 2014, ADOT Traffic Engineering updated some of their cell libraries. New sign libraries have been created to reflect the changes in the MOAS and ADOT Traffic Standards (see below). The new sign cells have been created so that they will all be proportional when placed at the same Active Scale.

Traffic_V8.cel has been updated and renamed to Traffic_V8i. Portions of the original cell library have been removed and placed into new libraries, Accident.cel & Pave_Patt.cel.

TSL_V8i includes updated cells for signal and lighting applications.

The following are the ONLY approved CADD cell libraries for Traffic Design. These libraries should contain most of the cells required to complete a pavement marking, signing, lighting and traffic control plan.

V:\Standards\English\ADOT.cel.....ADOT.cel (and other ADOT cell libraries).

V:\Traffic\Dev_V8i\Celllibs\traffic_V8i.cel......Cells used in the preparation of Pavement Marking, Signing and Traffic Control plans.

V:\Traffic\Dev_V8i\Celllibs\Sign_2014-X.....Libraries containing signs from the Manual of Approved signs (sign04.cel may be used as needed).

V:\Traffic\Dev_V8i\Celllibs\tsl_V8i.cel......Cells used in preparation of Signal and Lightingplans. All of the above cells may also be found on ADOT Traffic Engineering's web page;

http://www.azdot.gov/business/engineering-and-construction/traffic/cadd-standards

SIGN CELLS

Signs contained within the new Sign_2014_X series of libraries were all created at 1''=1'. If a sign is $24'' \times 24''$ in reality, when placed into a sheet at an active scale of 1, the sign will measure $24' \times 24'$. If all signs are placed using the same scale factor, the signs will be proportional to one another.

Once a scale factor is decided upon, all sheets in the project should use that scale for sign cells. TIPS WHILE

WORKING WITH CELLS

- Do not drop cells to edit the text, the word processor style text editor has the capability to edit text within cells.
- Do not use shared cells, unless a need truly exists.
- Users may create a library of their own to house custom cells.
- o Users may place custom cell libraries here:
- V:\Traffic\Users\[RACF ID]\v8i\Cellibs\
- Do not create cells within ADOT provided libraries.

CHAPTER 4 LINE STYLES

ADOT Traffic Engineering has modified and added new line styles.

Gore20_e has been renamed to Gore40_e, and a new Gore20_e has been created. A new line style DY (Double

Yellow) has been added.

It was determined that the size of the symbols in the line styles Typ220_e, Typ240_e, Typ280_e, Cone20_e, Cone40_e, Cone80_e, VP20_e, VP40_e, and VP80_e were too small for most applications. The original line styles are still available, and new line styles with larger symbols have been created, Typ220T2, Typ240T2, Typ280T2, Cone20T2, Cone40T2, Cone80T2, VP20T2, VP40T2, and VP80T2.

The symbols in the new line styles are 2 times larger than in the original line style.

- Use line styles "Leader" and "DimLeader" when dimensioning roadways, profiles and for use as note leaders.
- Use of terminators should be avoided.

See Appendix 5 for the complete list of ADOT approved line styles.

USING ACTIVE LINESTYLESCALE

The Active LineStyleScale is a number that tells MicroStation how to scale and display a line style. An Active LineStyleScale of 1 is normal, that is, it will display with the same dimensions that it was created with. Active LineStyleScale is used to make the symbols in a line style appear smaller or larger – it scales the line style.

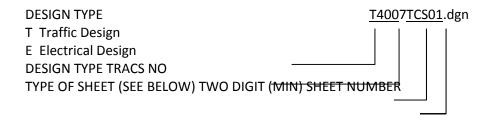
- When working in reference files, the Active Linestylescale should be set to 1
- When working in active files, the Active Linestylescale should be set to scale/100.

Refer to Chapter 7, Reference Files, for additional information about using Active Linestylescale.

CHAPTER 5 CADD FILE NAMING

TRAFFIC DESIGN CADD FILE NAMING

TRAFFIC DESIGN - ELECTRICAL DESIGN CAD FILE NAMING



TYPE OF SHEET

TRAFFIC DESIGN ELECTRICAL DESIGN

TCS Traffic Control Sheet(s) SIG Signal Sheet(s)

TCD Traffic Control Detail Sheet(s) STS Signal/Electrical General Notes TCN Traffic Control Note

Sheet(s) SGN Signal General Notes

TCQ Traffic Control Quantity sheet(s)

MOT Maintenance of Traffic Sheet(s)

LIT Lighting Sheet(s)

ELD Electric Detail Sheet(s)

PMS Pavement Marking Sheet(s) UGR Underground Conduit sheet(s) PMD Pavement

Marking Detail Sheet(s) INT Interconnect Sheet(s)

PMN Pavement Marking Notes Sheet(s) FMS Freeway Management Sheet(s) SDS Sign Detail Sheet(s)

LRP Loop Replacement Sheet(s) SLS Sign Locations Sheet(s)

SLT Sign Lighting Sheet(s)

SSS Sign Summary Sheet(s) SFS Sign Formats Sheet(s) SNS Signing Notes Sheet(s) XRS Crossroad Sheet(s)

Example: T4007SDS15.dgn

REFERENCE FILE NAMES

Base files (reference files) shall conform to the above structure with the following exception: An "X" shall be placed at the beginning of the file name.

TRAFFIC DESIGN
PMB Pavement Marking Base
SSB Sign Summary Base
TCB Traffic Control Base SNB Signing Base
BDR Border File

ELECTRICAL DESIGN
CSB Conduit Schedule Base
SSB Pole Schedule Base SFB Sign Format Base

Example: XT4007TCB.dgn (Add two digit Sheet number if needed)

CHAPTER 6 REFERENCE FILES

While working with reference files;

- Try to use the same logical name for the same file in every sheet. The logical name should be the last 2 or 3 characters of the file name or a unique identifier that relates to the type of reference file.
- o Example: xh6301tpo.dgn = xtpo
- o Example h6301des.dgn = des
- Example h6301xs.dgn = xs
- If the reference file is attached multiple times to the same sheet, the top left instance of the reference file shall be coordinately correct. Additional attachments shall use an identifier such as, top or left.
- Logical names for sheets with multiple instances of the same reference files will be as stated above. Example: lft-xtpo, rght-xtpo
- All reference files should be clipped using a shape drawn on level 295 (RW-Work-1). This level is a no-plot level. The shape may be on a construction level if desired.
- If possible, set the override color, weight, and style values in the reference file itself, then when working in the active sheet the overrides can be easily set by clicking on "update levels".

BORDER FILES

Border files shall use cell **trafd**, located in Traffic_V8i.cel. The border file should contain only the cell **trafd**, and any title block information that is used by all sheets in the set. Unless there is a special circumstance, only one border file should be used per project.

When attaching the border file to the active sheet, the border reference file may be scaled to accommodate the drawing. The border is one of the very few references that may be scaled or rotated.

USING PDFS AS A REFERENCE

Although MicroStation V8i has the ability to use PDFs as a reference choice, they should not be used as a permanent attachment, but rather as an aid to the drafting process.

USING REFERENCE FILES FROM OTHER ADOT GROUPS

Files referenced from any in-house source (Roadway or Bridge for example) should always be referenced from the source folder and never copied into the Traffic project folder.

REFERENCES & ACTIVE LINESTYLESCALE

When developing a file that will be used as a reference, care should be taken to ensure that the Active LineStyleScale (ALSS) is a number that tells MicroStation how to scale a custom line style. The 7 built in line styles are not affected by the ALSS.

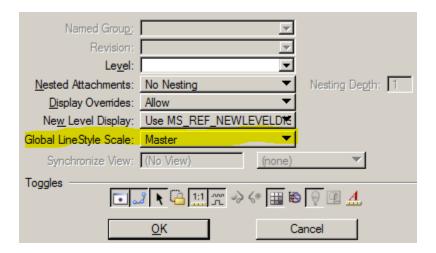
Working with Active LineStyleScales (ALSS) can be a bit tricky if care is not taken when developing the reference file. When creating a base file for Marking plans, for example, setting the ALSS to any other number than 1 can result in the pavement marking line styles not being to scale when measured on a plan sheet.

All base files should be drafted at 1:1, and the Active LineStyleScale should be set to 1.

A Marking Plan example: Marking plans are typically 40 scale. The border reference file has been scaled down

by 0.4 and moved and rotated to fit the area of interest. The ALSS for this sheet should also be 0.4. By setting the active sheet's ALSS to 0.4, however, changes the dimensions of the pavement marking line styles, and they are no longer correct. By using the steps below this can be remedied.

When attaching any reference file, the user is greeted by an Attachment Settings dialog box for that unique reference file. The user can also open this dialog box by double clicking on the highlighted reference in the References dialog box. Below is a partial screen shot of the Attachment Settings dialog box:



By setting the Global Linestylescale to Master, the Active LineStyleScale set in the active sheet is ignored for that attachment. Pavement marking line styles will then display as intended.

CHAPTER 7 PRINTING AND PLOTTING

Print Organizer is a utility for creating, managing, and publishing project deliverables and is a replacement for the Batch Print utility. Additional Printing enhancements include changes in the Print dialog for single sheet printing.

For both on-the-fly printing, or when using Print Organizer, there are three main components to printing or plotting; the plot driver, the pen table, and the print style.

The Plot Driver contains information needed by MicroStation and Windows to successfully convert and send your drawing to the device.

Resymbolization is the process of changing characteristics of elements within a design file. When these changes are applied to printed output, the process is referred to as print resymbolization. Pen tables and design scripts control print resymbolization. Pen tables let you remap any of the characteristics associated with design file elements for the printed output.

Print styles are named sets of print definition properties, such as scale, rotation, and color, that allow you to create print sets in a consistent and automated manner.

While the way print drivers and pen tables are created and their file structure has changed, they continue to function much the same as they did in V8. The extension for print drivers has changed from .plt to .pltcfg, and the format of the plot configuration files have changed from ascii to XML.

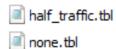
Below are the print drivers available for use to Traffic Design. They can be found at: $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1$

V:\Traffic\Dev_V8i\Printers \

- Half_Color.pltcfg
- Half_Grey_5000.pltcfg
- Half_Non_5000.pltcfg
- jpeg.pltcfg
- OCE_NonPaper.pltcfg
- OCE_NonVellum.pltcfg
- OCE_Paper_Grey.pltcfg
- OCE_Vellum_Grey.pltcfg
- PDF_color.pltcfg
- PDF_Grey.pltcfg
- PDF_non.pltcfg

The print driver does not directly affect whether or not printing in grey scale is available or not; that is determined by the pen table. The printer driver names that include "non" in the file name will automatically load a pen table that does **not** support grey scale. When a print driver is selected and loaded, the appropriate pen table will also be loaded. Pen tables may be used with any print driver to achieve the desired results.

Here are the pen tables available to Traffic Design.



normal.tbl

subdue.tbl

Half_traffic.tbl – This is the "generic" pen table and works best in most situations.

None.tbl –Use this table when printing in color.

Normal.tbl – prints everything in black and white, no greys or colors.

Subdue.tbl – Greys out all "existing" levels in the active file as well as all reference files.

Levels 1-24, 29, 31, 59-61, and colors 227 & 228 will plot in grey.

Color 227 RGB = 170, 170, 170 (lighter)

Color 228 RGB = 130,130,130 (darker)

CHAPTER 8 SET UP FOR TYPICAL PLAN SHEETS

SIGNING SHEETS

SIGNING LOCATION SHEETS:

Signing location sheets are plan sheets that show an image of the sign (cell), and the post symbol geometrically located relative to the roadway. In some cases, these sheets are combined with Pavement Marking Sheets. In any case the following applies.

When labeling the signs, three pieces of information are required to accompany the sign cell: **Summary Reference**: this is the label that refers the reader to the correct sign on the Summary Sheet. Typically this is the direction and mile post (E123.33, or N321.12).

Condition: This label indicates the state of the sign, New or Existing.

Action: This label shows what is intended for the sign. "Remove Existing", "To Remain" are some examples of the Action Label.

When placing sign cells, or importing signs from SignCAD, attention to the scale and proportionality of the sign cell should be taken.

Sign Location plans (Main Line) are generally drawn at 100 scale. Sign Location plans (Cross Roads) are generally drawn at 200 scale.

When combined with Striping, the centerline line is not shown, however, the stationing tick marks are always visible.

SIGN SUMMARY SHEETS:

Sign Summary sheets contain sign installation data (number of posts, legend, etc.). This data is sometimes generated in Excel and then linked to the summary sheet. Linked Excel data is very convenient because the data can be manipulated in Excel perhaps much easier than in MicroStation. Additionally, the Excel data can be used for other purposes as well.

We have access to Axiom's Office Importer. This application provides a convenient way to import Excel data into MicroStation and is great for Sign Summary Sheets.

SIGN FORMAT SHEETS:

Sign Format sheets show the output from SignCAD. Experimentation and experience led to the information provided below by Richard Moeur.

Excerpt from an email by Richard Moeur, dated August 10, 2009.

The SignCAD MDL settings that I used for placing the signs in MicroStation are as follows:

Active Scale (in MicroStation): 1.00

Rotation Angle: 0 Geometry Scale: 1.00

Master Units: Inch (NOT feet or meter)

Geometry Level: 54 Dimension Level: 54 Include Dimensions: Yes

Color Fill: NO

Dimension Sizing: Use SignCAD Size

I believe that the combinations that provide the best balance between appropriate sign size and legible dimensioning are as follows:

Large & medium mainline signs - Plan sheet scale: 1" = 25'

SignCAD dimension scale: 1:50

Ramp/crossroad/small mainline signs - Plan sheet scale: 1" = 12.5'

SignCAD dimension scale: 1:25

PAVEMENT MARKING SHEETS

Mainline Pavement Marking plans are typically drafted at 40 scale. Crossroad marking plans are typically drafted at 40 scale. Occasionally, 50 scale is used.

Text for proposed marking labels are drawn with a weight of 4.

The text sizes follow the rules as described above in Chapter 2. Call outs use title case, notes use sentence case.

Pavement Marking sheets will typically show any new edge of pavement (EOP) line work as existing. When the Contractor begins to lay down the markings, the roadway work has been completed so the EOP should be displayed as existing. One way to accomplish this is to use level overrides. From Level Manager set the appropriate level overrides for Roadway's "MAS" file to CO=16, LC=3, WT=2. The level override option must be on for overrides to display.

The weight of the pavement marking line work should generally be $\frac{1}{2}$ of the actual width of the marking. Examples: a 12" wide stop bar would be drawn at a weight of 6, a 6" line would be drawn at a weight of 3, etc.

TRAFFIC CONTROL SHEETS

TRAFFIC CONTROL GENERAL NOTES:

Sentence case shall be used for all notes. Sentence case uses proper grammar and punctuation. Avoid using abbreviations when writing notes.

MAINTENANCE OF TRAFFIC SHEETS:

Sentence case shall be used for all notes and comments. Sentence Case uses proper grammar and punctuation.

TRAFFIC CONTROL QUANTITIES SHEETS:

Text for bid items, element of work descriptions, and other text contained within the quantities grid shall be title case. The first character of each word shall be capitalized. Exceptions to this are words defined as definite articles ("the"), indefinite articles ("a", and, "an") and coordinating conjunctions ("and", "but", "if", "or", "for", "yet", "so", "non" and "nor") these generally are not capitalized.

TRAFFIC CONTROL DETAIL SHEETS:

Traffic Control Detail sheets typically are drawn at a scale of 40.

Traffic Control Detail sheets will include a variety of elements such as notes, sign cells, and detail graphics. Care should be taken when importing sign cells. All signs should be proportional and the size consistent with the rest of the plan set. A Symbol legend is provided in the cell library and should be used.

CHAPTER 9 RECORD DRAWINGS

ARCHIVING PROJECTS

The following are general guidelines on the assembly of record drawings (as-builts):

- Copy and save signed & sealed plans from Road Portal or Data Warehouse.
- Set up new CADD pages with plot shapes and rasters in pages of the plans 20 sheets at a time depending on size of the plan set.
- Once plans are rastered in CADD, perform red-lining and clouding per documentation from District.
- Determine total number of pages, including changes & addenda and use information to perform numbering and dating of the plans.
- After completing redlines, clouding, numbering and dating you are ready to produce final PDF of plan set.
- Once final half-size is created, send to Resident Engineer (RE) for review and approval.
- Once the RE approves the record drawing set, create a new PDF/A set in both half-sized (11"x17") and full-sized (34"x22"). Once this is complete, send to the RE, Project Resource Office (PRO), and design engineer.
- Verify Project Resource Office (PRO) has received final approval from RE (or forward along if you already have email available).
- The final record drawings are usually sent through ShareFile.

For more information on record drawings, please see ADOT's <u>Record Drawing Guidelines</u>, administered by the Project Resource Office.

CHAPTER 10 TOOLS

THE TRAFFIC DESIGN PULL DOWN MENU

The purpose of the Traffic Design MicroStation Pull Down Menu is to help the user find and use proper cells, tools, information, and to assist the user to following Traffic Design CADD Standards.

Traffic Design's MicroStation Pull Down Menu is a work in progress. As new items or new suggestions become known, the menu will evolve. It is recommended that the user take a tour through the menu to see what is available, and to suggest items that could be added.

AXIOM OFFICE IMPORTER

This utility is used to import data from Excel into MicroStation. This utility seems to work quite well when linking Sign Summary data. A revised version of the normal sign summary spreadsheet is available at V:\Traffic\Dev_V8i\CADD Friendly SSS.xls. This revised addition has had some column widths adjusted so that the imported image matches the line work of the sheet.

ROTATE TEXT TO LINE

This MDL application rotates an existing text element to match the angle of a line, linestring, or shape. This application does not have a dialog box.

To load and this application:

Go to the VBA Tools pull down menu and choose "Rotate Text to Line"
Follow the prompts, pick and accept the line segment first. Pick and accept the text to rotate.

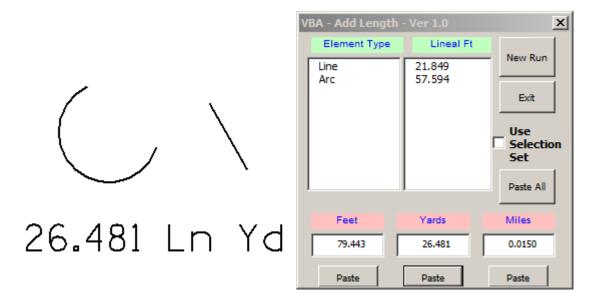
A few things about this application: if the line was drawn "backwards" the text will rotate to be backwards also, but it's possible to have the application activate the rotate command (at 180°) so the text can be rotated if needed. If not, simply enter a reject.

ROTATE ELEMENT TO LINE

This VBA tool works much like the rotate text tool. Snap to the first end, then to the other end of a line, and then pick the element to rotate.

ADD LENGTH

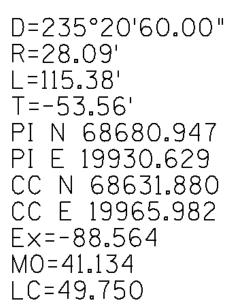
As the name implies, this VBA sums lengths of various element types. The resultant can then be pasted into the drawing.

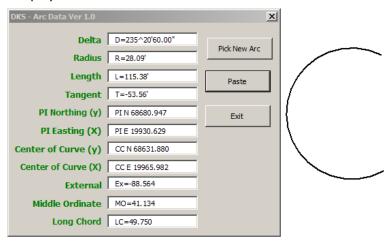


Note, pasted text will assume current symbology and attributes.

ARC DATA

This VBA displays information about a selected arc.





Note, Pasted text will assume current symbology and attributes.

STRAIGHTEN TEXT

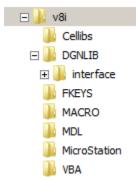
This VBA will rotate a text element to be horizontal with the current.

CHAPTER 11 MICROSTATION INTERFACE CUSTOMIZATION

MENUS

GENERAL INFORMATION ON USER CUSTOMIZATIONS

Every user has a location on the V: drive (V:\Traffic\Users\[RACF ID]\v8i\) where they may put their customization files. Pull down menus, as well as icon menus would be placed in the \V8i\DGNLIB\Interface\ folder. A custom function key menu would be placed in \V8i\FKEYS\



The user may even wish to have their own cell libraries, macros, or other enhancements that are unique to that user. MicroStation is configured such that if an appropriate file is placed in the appropriate folder it will be read and executed automatically by MicroStation at start up.

FUNCTION KEYS

Function keys are great. Every user should develop a set of function keys that suits their drafting style. The key to creating any kind of menu item in MicroStation is knowing the key-in for the command. Multiple commands can even be strung together by separating them be a semi colon (;). Below are some examples of typical function key key-ins.

active angle pt2

AM=dks_adot_traffic_menu.dgnlib, screen1,sc1,s1
drop complex
choose prev
choose none
choose elem
spin orig
pla fence block
Inputmanager Menu DONPop
vba load Rotate_Elm.mvba; vba run Module1.GetRotation
SET CURSOR SMALL;ky=2;aa=0;as=1;LOCK SNAP KEYPOINT
SNap Nearest

Extend line

active axis 30;ky=2;LOCK AXIS

change element extended

macro K:\Rdwy\191214000-Williamson_Valley_Road\CADD\Sheet_Num\add_del_tags

aa=90

aa=0

SHOW REF

MATCH ELEMENT

VIEW PREVIOUS

LOCK GGROUP

lv=59;co=59;wt=2;ft=3;macro chng-tb FIT

FIT ALL

SET CURSOR FULL; ky=2

ZOOM IN 1.8

ZOOM OUT 2.3

snap intersection

macro kha-match element

choose previous

view off 1; view on 1; fit all; selview all; filedesign

change text case titlecase

change text case firstcapital

APPENDIX 1 TRAFFIC DESIGN DRAFTING GUIDE EXAMPLE SHEETS

The following sheets provide examples of CADD methods which follow these guidelines.

APPENDIX 1 TRAFFIC DESIGN DRAFTING GUIDE EXAMPLE SHEETS

ADVANCE WARNING, TRAFFIC CONTROL PLAN

GUIDELINES FOR TYPICAL, ADVANCE WARNING, TRAFFIC CONTROL PLAN

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING	
9	ARIZ.					

- 1. The contents of this drawing shall be used as a quide for drafting ADOT Traffic Engineering plans and should not be used as a design aid.
- 2. This drawing is a labeling and dimensioning presentation.
- 3. This drawing is cut 100 scale (the border is a reference file attached 1:1). The Border File has Data Fields for placement of Title Block Text. For Title Block Text that is sheet specific, the Data Fields need to be copied up into the Sheet File. Title Block Text that is not sheet specific can and should live in the Border File to avoid duplication of work.
- 4. For labeling text use Title Case. The first letter of each word is capitalized. Words that would not typically be capitalized within a label are words defined as definite articles ("the"), indefinite articles ("a" and "an"), and coordinating conjunctions ("and", "but", "if", "or", "for", "yet", "so", "non" and "nor").
- 5. Label text do not include punctuation. See Signing & Marking and Signal & Lighting Standard Drawings for Standard Abbreviations.
- 6. ALL graphic element items shall follow the ADOT LEVEL STRUCTURE. Existing items do not need to be screened on this type of drawing.
- 7. SIGN FORMATS (imported from SignCad), dimension text, and sign accessory cells are placed on; LV = 54 CO = Designer's discretion WT = Designer's discretion FT = SignCad default
 - TX = Dimension Text is SignCad Designer's discretion. Adjusted Dimension Text on this example drawing is: WT = 0
- 8. CELL PLACEMENT: LV = Cell attributes are built-in but can be adjusted to the Designer's WT = 0 for filled cells The weight of any cell may be adjusted to the Designer's discretion. The, North Arrow, cell is placed or copied into each Sheet File at the drawing scale of AS=1.

- 9. TITLE TEXT: LV = 55(Signing), 43(Traffic Control) CO=LV WT =6 FT=1 TX = 22 (100 scale) $LS = \frac{1}{2}$ text height Text Justification = Center Bottom (also Center Top if using description text below the underline). This text uses upper case and does not have descenders.
- 10. All Title Text (Detail Titles) that is not in a Table or labeling roadways/street names will have an underline. This underline has all the same element attributes as the Title Text with the LC=0.
- 11. NOTES (TEXT): LV = 55(Signing), 43(Traffic Control) CO=LV WT = 4FT=23 or 36 (font 36 has special characters for Signal & Lighting plans). TX = 17.5' (100 scale) $LS = 0.625 \times (text\ height)$ Text Justification = Left Top (Because when editing, text will grow from top left and shrink from the bottom right). This text uses upper and lower case and has descenders.
- 12. LABEL TEXT: LV = 55(Signing), 43(Traffic Control) CO=LV WT = 3FT=23 or 36 (font 36 has special characters for Signal & Lighting plans). TX = 15' (100 scale) See Note #14 $LS = 0.625 \times (text\ height)$ Text Justification = Left Top (Because when editing, text will grow from top left and shrink from the bottom right). This text uses Title Case and has descenders.
- 13. CENTERLINE AND DATA TEXT: LV = 21 CO=LV WT = 1FT=23 TX = Designer's discretion LS = 0.625 x (text height) Text Justification = Designer discretion
- 14. All text can be squeezed to fit tight spaces and to the Designer's discretion as long as it is legible when printed hard copy and in all pdf formats (half size/full size).

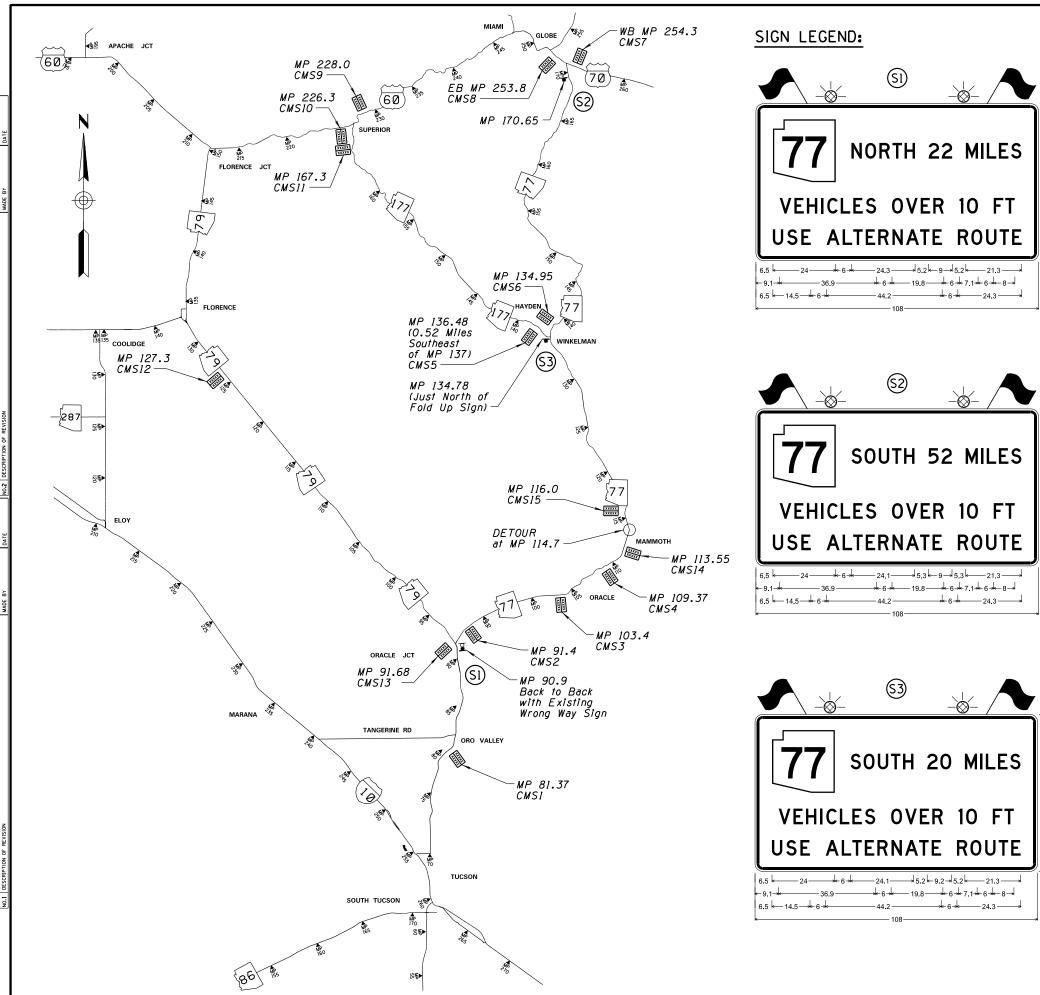
- 15. LEADER LINE: LV = 55(Signing), 43(Traffic Control) CO=LV WT = 1LC = Leader The leader line scale factor is 1.0 for 100 scale. Once you have created both and attached together, it is recommended to group together. Then you can copy and move to other label text. Using the modify command forces the arrowhead to follow the line angle modified because it is a custom linestyle.
- CO=LV WB MP 254.3 MP 103.4 MP 167.3 / WT = 1CMS7 CMS3 -CMS11 -LC = 0 The, Leader Extension, line length = Text Height (can be adjusted longer if coming off the right bottom on stacked text when the last line of text is shorter and the leader line is pointing up). It is spaced away from the text, $\frac{1}{2}$ text height. It can be center eye-balled in the middle of the text from the top

16. LEADER EXTENSION LINE:

LV = 55(Signing), 43(Traffic Control)

left or bottom right. (See example above)

	NAME	DATE	ARIZONA DEPA	RIMENT OF TE	RANSPORTATION				
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TEAM LEADER			GUIDELINES FOR TYPICAL ADVANCE WARNING						
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NOTES:

- 1. Each sign shown on this sheet is a specialty sign with black legend on an orange background.
- 2. Each 77 route shield shall be 24 in. x 24 in. and white with 12 in. black text. All other text shall be 6" text (D alphabet).
- 3. All distances and locations are approximate.
- 4. The Contractor shall not display these signs until 72 hours prior to the time SR 77 traffic will be diverted to the detour for the culvert work by MP 114.7. The Contractor shall remove or cover these signs as soon as SR 77 traffic will be allowed to return to the highway (as soon as the detour is no longer necessary).

NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION				
LARRY LOPEZ	6/19	TRAFFIC DESIGN SECTION				
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		SPECIALTY SIGNS				
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	LARRY LOPEZ	LARRY LOPEZ 6/19	LARRY LOPEZ 6/19 LARRY LOPEZ 6/19 LARRY LOPEZ 6/19 TRAFFIC DESIGN SECTION ADVANCE WARNING TRAFFIC CONTROL AND SPECIAL TY SIGNS	LARRY LOPEZ 6/19 LARRY LOPEZ 6/19 ADVANCE WARNING TRAFFIC CONTROL AND SPECIALTY SIGNS SHEET	LARRY LOPEZ 6/19 LARRY LOPEZ 6/19 ADVANCE WARNING TRAFFIC CONTROL AND SPECIALTY SIGNS SHEET 1	LARRY LOPEZ 6/19 LARRY LOPEZ 6/19 ADVANCE WARNING TRAFFIC CONTROL AND SPECIALTY SIGNS SHEET 1 OF

APPENDIX 1 TRAFFIC DESIGN DRAFTING GUIDE EXAMPLE SHEETS

BRIDGE REPAIR, TRAFFIC CONTROL DETOUR

GUIDELINES FOR TYPICAL, BRIDGE REPAIR, TRAFFIC CONTROL DETOUR

- The contents of these drawings shall be used as a guide for drafting ADOT Traffic Engineering plans and should not be used as a design aid.
- 2. These drawings are a labeling and dimensioning presentation.
- 3. Drawings can be 20, 40, 50 or 100 scale (the border is a reference file attached 1:5 (20 scale), 1:2.5 (40 scale), 1:2 (50 scale), 1:1 (100 scale).

 These types of drawings can be schematic and not to scale.

 Text size TX = 17.5' (100 scale), 8.75' (50 scale), 7' (40 scale), 3.5' (20 scale), (see Note #19). For Title Text see Notes #12, #13 and #17. The Border File has Data Fields for placement of Title Block Text. For Title Block Text that is sheet specific, the Data Fields need to be copied up into the Sheet File. Title Block Text that is not sheet specific can and should live in the Border File to avoid duplication of work.
- 4. For labeling text use Title Case. The first letter of each word is capitalized. Words that would not typically be capitalized within a label are words defined as definite articles ("the"), indefinite articles ("a" and "an"), and coordinating conjunctions ("and", "but", "if", "or", "for", "yet", "so", "non" and "nor").
- 5. Label text does not use punctuation. See Signing & Marking and Signal & Lighting Standard Drawings for Standard Abbreviations.
- ALL existing items not part of the Bid Set and/or Contractor Construction Responsibility are to be screened (gray/level overrides).
 All graphic element items shall follow the ADOT LEVEL STRUCTURE.
- 7. WORK ZONE (Hatched Area):
 LV = 15
 CO = LV
 WT = 0
 LC = 0
- 8. EDGE OF ROAD, PAVEMENT PRESERVATION
 LIMITS AND NEWLY CONSTRUCTED ROADWAY
 ITEMS (non Traffic Items are shown as existing):
 LV = 16
 CO = LV
 WT = 0
 LC = 3
- 9. CURB AND GUTTER:
 LV = 23
 CO = LV
 WT = 0
 LC = 2
 For all other Existing Items (bridges, guardrail, etc), see
 ADOT LEVEL STRUCTURE for (existing) level placement/level
 overrides. The line weight of any existing item can be adjusted
 to the Designer's discretion as long as it is screened (gray).
- 10. LANE LINE AND EDGELINE STRIPING:
 LV = 46 (Existing LV = 17)
 CO = 0 for White pavement markings
 CO = 17 for Yellow pavement markings
 WT = 3 for 6" striping
 WT = 6 for 12" striping
 WT = 9 for 18" striping
 WT = 12 for 24" striping
 LC = (see custom linestyle names)
 These pavement markings can live in a Master Base File or a Sheet File.

- 11. CELL PLACEMENT:
 LV = Cell attributes are built-in but can be adjusted to the Designer's
 discretion.
 LV = 17 for existing traffic items/cells, (levels that screen/level overrides).
 WT = 0 for filled cells (CO = 17 for existing filled cells).
 The weight of any cell may be adjusted to the Designer's discretion.
 Pavement Arrows and "Only" legend pavement markings are cells that usually live
 in a Master Base File but can be shown in a Sheet File.
 These cells are brought into a Master Base File at AS = 1.
 The North Arrow cell is placed or copied into each Sheet File
 at the same drawing scale (AS = Sheet File Scale).
- L. TITLE TEXT:

 LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control), LV = 25(Match Line)

 CO = LV

 WT = 6

 FT = 1

 TX = 22' (100 scale), 11' (50 scale), 8.8' (40 scale), 4.4' (20 scale)

 LS = \frac{1}{2} text height

 Text Justification = Center Bottom (also Center Top if using description text below the underline).

 This text uses upper case and does not have descenders.
- 13. All Title Text (Detail Titles) that are not in a Table or labeling roadways/street names will have an underline. This underline has all the same element attributes as the Title Text with the LC=0.
- 1. NOTES (TEXT):

 LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control)

 CO = LV

 WT = 4

 FT = 23 or 36 (font 36 has special characters for Signal & Lighting plans).

 TX = 17.5' (100 scale), 8.75' (50 scale), 7' (40 scale), 3.5' (20 scale)

 LS = 0.625 x (text height)

 Text Justification = Left Top (Because when editing, text will grow from top left and shrink from the bottom right).

 This text uses upper and lower case and has descenders.
- 15. LABEL TEXT:
 LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control)
 CO = LV
 WT = 4, WT = 2 (for smaller text used under Traffic Control Signs)
 FT = 23 or 36 (font 36 has special characters for Signal & Lighting plans).
 TX = See Notes #3 and #19
 LS = 0.625 x (text height)
 Text Justification = Left Top (Because when editing, text will grow from top left and shrink from the bottom right).
 This text uses Title Case and has descenders.
- 16. DIMENSION TEXT AND STATION CONTROL POINT TEXT:
 LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control)
 CO = LV
 WT = 4
 FT = 23 or 36 (font 36 has special characters for Signal & Lighting plans).
 TX = See Notes #3 and #19
 LS = 0.625 x (text height) (space above and below the dimension line)
 Text Justification = Center Bottom (also Center Top if using description text below the dimension line)
 This text uses Title Case and has descenders because it sometimes includes a description.
- 17. CENTERLINE TITLE TEXT:
 (500' Stationing)
 LV = 21
 CO = LV
 WT = 1
 FT = 1
 TX = 22' (100 scale), 11' (50 scale), 8.8' (40 scale), 4.4' (20 scale)
 Text Justification = Center Center
 This text uses upper case and does not have descenders.

F.H.W.A. REGION STATE PROJECT NO. SHEET TOTAL RECORD DRAWING 9 ARIZ.

18. CENTERLINE DATA TEXT:
(Curve Data, Station Equation)
LV = 21
CO = LV
WT = 1
FT = 23
TX = See Notes #3 and #19
LS = 0.625 x (text height)
Text Justification = Designer's discretion

20. CENTERLINE TICK MARKS:

22. LEADER EXTENSION LINE:

- 19. All text can be squeezed to fit tight spaces and to the Designer's discretion as long as it is legible when printed hard copy and in all pdf formats (half size/full size).
- LV = 20
 CO = LV
 WT = 1
 LC = 0
 These tick marks are to be displayed screened (gray).
 Note; the centerline is never displayed so it won't conflict with striping.
- 21. LEADER LINE:
 LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control)
 CO = LV
 WT = 1
 LC = Leader
 The leader line scale factor is 0.2 (20 scale), 0.4 (40 scale),
 0.5 (50 scale), 1 (100 scale).
 Once you have created both and attached together, it is recommended to group together. Then you can copy and move to other label text.
 Using the modify command forces the arrowhead to follow the line angle modified because it is a custom linestyle.
- LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control)

 CO = LV

 WT = 1

 Inline Attenuator
 (Water Filled)

 The, Leader Extension, line length = Text Height (can be adjusted longer if coming off the right bottom on stacked text when the last line of text is shorter and the leader line is pointing up). It is spaced away from the text, \(\frac{1}{2} \) text height. It can be center eye-balled in the middle of the text from the top left or bottom right. (See example above)
- 23. DIMENSION LINES:
 LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control)
 CO = LV
 WT = 1
 LC = DimLeader
 (DimLeader2 is for dimensioning a space smaller than the size of arrowheads so that the arrowheads point towards each other).
 The dimension line scale factor is 0.4 for 40 scale
 (0.1 for 10 scale, 0.2 for 20 scale, 0.5 for 50 scale).
- 24. DIMENSION EXTENSION LINES: LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control) CO = LV WT = 1 LC = 0

ESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION	
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			BRIDGE REPAIR	
			TRAFFIC CONTROL DETOUR	
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TRAFFIC CONTROL NOTES:

- 1. The traffic control plans represent a suggested method for traffic control during construction. The Contractor may prepare another traffic control plan in accordance with Section 701 of the Specifications, Part VI of the 2009 Manual of Uniform Traffic Control Devices, the Arizona Supplement to the MUTCD, and the 2010 ADOT Traffic Control Guidelines. All traffic control plans are subject to the approval of the Engineer before beginning construction.
- 2. Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities, as directed by the Engineer.
- 3. All existing signs in conflict with the construction signs shall be removed, relocated, or covered in place, as directed by the Engineer, at the Contractor's expense. The Contractor shall store and reinstall items which have been removed or relocated in a manner approved by the Engineer. All signs that are damaged during construction shall be replaced by the Contractor at no cost to the Department.
- 4. All construction signs shall have black letters on an orange background, except as otherwise indicated.
- 5. The retroreflective sheeting on all construction signs shall meet the criteria established for Type VIII, IX, or XI sheeting in accordance with ASTM D4956, except all black-on-white signs, barricades, vertical panels, and other work zone traffic control devices may have Type IV sheeting. All orange signs shall have fluorescent sheeting.
- 6. All signs shown on the plans shall be mounted on embedded posts, rigid stands, or spring stands except as otherwise noted by the Engineer. Signs installed on embedded posts shall be mounted a minimum height of 7 feet as measured from the bottom of the sign to the near edge of the pavement. All other short-term signs may be installed on portable stands at the height recommended by the portable stand manufacturer.
- 7. The nearest edge or corner of a sign shall be approximately 12 feet from the nearest edge of pavement or 6 feet behind quardrail for all signs mounted on embedded posts.
- 8. Flags shall be mounted on top of all construction signs except the "END ROAD WORK THANK YOU" sign.
- 9. Type A flashing warning lights shall be required on all night time construction signs except the "END ROAD WORK THANK YOU" sign.
- 10. Channelizing devices shall be drums, cones, or vertical panels and shall be placed 40 feet on center in tapers and 80 feet on center in tangents, except as otherwise noted on plans. For night time work Type "C" warning lights shall be required on top of every channelizing device in tapers and on alternating devices in tangent sections.
- 11. An adequate number of Type III barricades shall be placed across each roadway to be closed. A 48x30 inch "ROAD CLOSED" sign shall be attached to one of the Type III barricades closing the roadway. A Type "A" flashing warning light shall be mounted on each end of each Type III barricade.
- 12. Where insufficient shoulder width exists to accommodate a spring stand, signs shall be installed on concrete barrier or as directed by the Engineer. The installation costs are included in the cost of the sign.

- 13. The Contractor may substitute Type I barricades for Type II barricades as long as the reflective area on the top of panel of each Type I barricades is equivalent or greater than the reflective area of a Type II barricade.
- 14. The Contractor shall remove the existing pavement markers in connection with the stripe obliteration activities.
- 15. The Contractor shall not disturb any logo signing. The Contractor shall contact Grand Canyon Logo signs at least 1 week in advance to make any necessary adjustments to the existing logo signing. Any logo signing which is damaged as a result of construction activities shall be replaced or repaired at the discretion of the logo sign company at the contractor's expense.
- 16. Speed limit signing is preliminary and is subject to review and change by the Engineer as dictated by field conditions.
- 17. The Contractor shall utilize a flashing arrow panel in the sequential chevron mode for each closure of the through lane. The Contractor shall not utilize a flashing arrow panel for any shifting taper.
- 18. During work periods, lane closures shall generally conform to Figure SA-5(R) of the 2010 ADOT Traffic Control Design Guidelines.
- 19. Construction signs shall not be displayed to traffic more than 24 hours prior to the actual start of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after the completion of the construction activities.
- 20. The Contractor shall position changeable message boards in advance of each road or lane closure as shown on plans or as directed by the Engineer.
- 21. Adjustments to the details of these traffic control plans and requirements maybe necessary due to construction activities or as directed by the Engineer.
- 22. All existing pavement markings in conflict with the traffic control plans shall be removed by approved methods, as indicated in the Special Provisions.
- 23. All re-striping activities along southbound I-17 on top of the bridge deck and along 7th Avenue below the bridge, shall use thermoplastic pavement markings or as directed by the Engineer.
- 24. Off-duty uniformed police officers and their vehicles shall be included as part of the Contractor's traffic control when the Engineer decides they should be present including during the installation and removal of temporary concrete barrier for the lane and road closures. The Contractor shall also utilize and provide flaggers and uniformed officers (DPS) at any other time determined by the Engineer.
- 25. Where no closure is necessary but where there is construction alongside a roadway under construction, the Contractor shall place 48x48 inch "ROAD WORK AHEAD" and "SHOULDER WORK AHEAD" signing as directed by the Engineer to alert the public to the construction activities.

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- 26. While traffic control items are not in use, the Contractor shall remove these items to a location behind guardrail or at least 30 feet from the edge of the paved roadway. This includes all supports without sign panels. Any signs which are not in use but which cannot be moved behind guardrail or at least 30 feet from the roadway shall be covered so the public cannot read the legends.
- 27. For temporary concrete barrier markers, see ADOT Standard Drawing M-32 barrier markers. Markers shall be installed at 20 feet spacing. The installed price for the markers shall be considered part of the barrier cost.
- 28. The Contractor shall abide by the traffic control requirements specified for Subsection 104.04 Maintenance of Traffic of the Special Provisions. All references to the "MUTCD" refer to the 2009 version of the MUTCD as amended by the January 2012 ADOT supplement.
- 29. Note all drawings are schematic only and are not to scale.

 All dimensions are in feet, unless otherwise noted.

	NAME	DATE	ARIZONA DEPA	RTMENT OF TRANSPORTATION	N				
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	MAINTENANCE AND PROTECTION OF TRAFFIC F.M. 9									
ACTIVITY NO.	CONSTRUCTION ACTIVITY	TRAFFIC CONTROL	REMARKS							
1	Set up temporary concrete barrier. Start demolition of bridge deck and barrier.	Install warning signing on southbound I-17 for one lane closure. Set up full closure and warning signing for 7th Avenue in both directions.	Signs and changeable message boards are to remain for the duration of the work. Changeable message boards shall be displayed two weeks prior to start of project. Coordinate the message for each work activity with the engineer.							
2	Set bridge girder, false work and rebar.	Set up weekday night closure on northbound 7th Avenue. Southbound 7th Avenue open to traffic.	Update messages on changeable message boards to reflect current traffic control conditions.							
3	Pour bridge deck and strip formwork.	Set up weekend full closure for northbound 7th Avenue. At times, traffic on southbound I-17 will be restricted to one lane.	Other traffic control restrictions may be required and should be followed if requested by the Engineer.							
4	Form and prep for new bridge barrier.	Set up weekday full closures for northbound and southbound 7th Avenue.	Update messages on changeable message boards to reflect current traffic control conditions.							
5	Pour bridge barrier and remove temporary concrete barrier.	Set up weekend full closure for northbound 7th Avenue. At times, traffic on southbound I-17 will be restricted to one lane.	Update messages on changeable message boards to reflect current traffic control conditions.							
6	Remove traffic control on southbound I-17.	Southbound I-17 open to traffic.	Remove all traffic control that is not being used on southbound I-17.							
7	Paint bridge structure.	Set up nighttime full closure for northbound and southbound 7th Avenue.	Update messages on changeable message boards to reflect current traffic control conditions.							
8	Perform asphalt paving and striping as needed on southbound I-17 and on 7th avenue.	Set one lane closure (right lane) on southbound I-17 per figure SA-5(R) of the 2010 ADOT Traffic Control Design Guidelines.	Permanent pavement markings and raised pavement markers shall be installed on 7th avenue below the bridge.							

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NOTE:

The above sequence of activities does not constitute a sequence of construction.

	NAME	DATE	ARIZONA DEPA	RTMENT OF TRANSF	ORTATION			
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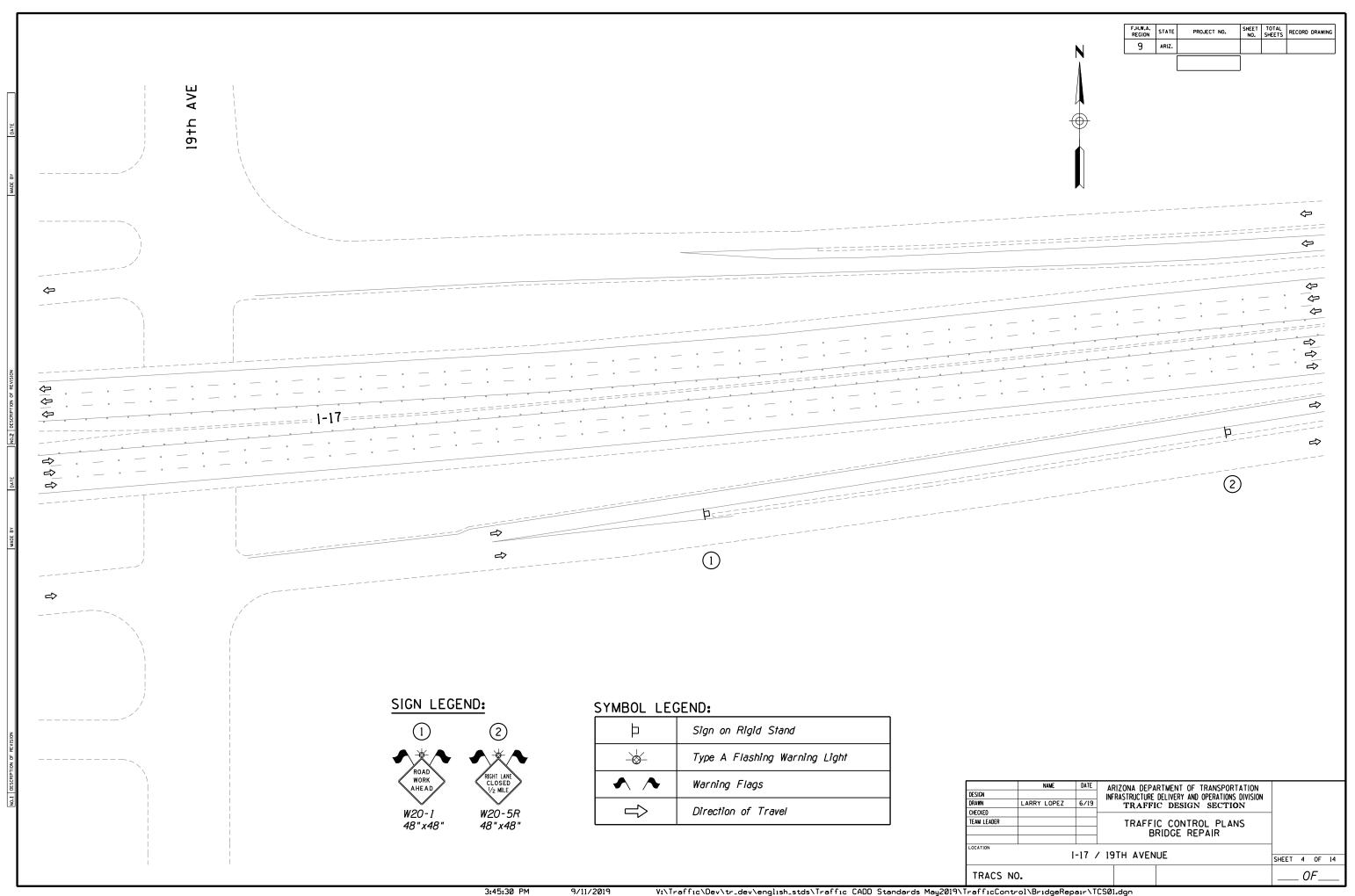
	APPROXIMATE	TRAFFIC C	ONTROL	QUANT	ITIES							
ITEM	ELEMENT OF WORK	UNIT	CONSTRUCTION ACTIVITY NUMBER									
NUMBER	ELEMENT OF HOUR	SWI 1	1	2	3	4	5	6	7	8	TOTAL	
	Work Duration (Work Days)		2	4	3	4	3	1	1	1	19	
7015091	Specialty Sign	Sq-Ft	30	60	45	60	45				240	
7016030	Barricade (Type II, Vertical Panel, Tubular Marker)	Each-Day	200	330	240	400	240	10	30	50	1,500	
7016031	Barricade (Type III, High Level Flag Trees)	Each-Day	50	30	25	100	25	4	8	4	246	
7016032	Portable Sign Stands (Rigid)	Each-Day	70	80	60	140	60	10	25	15	460	
7016033	Portable Sign Stands (Spring Type)	Each-Day	35	75	55	70	55		2	15	307	
7016035	Warning Lights (Type A)	Each-Day	130	180	130	260	130	10	20	20	880	
7016037	Warning Lights (Type C)	Each-Day	190	310	230	380	230	10	45	50	1445	
7016039	Embedded Sign Post	Each-Day	15	25	20	30	20	4	4	2	120	
7016050	Truck Mounted Attenuator	Each-Day	1					1		1	3	
7016051	Temporary Sign (Less Than 10 Sq-Ft)	Each-Day	55	65	50	110	50	10		2	342	
7016052	Temporary Sign (10 Sq-Ft or More)	Each-Day	60	80	65	120	65	35	15	15	<i>4</i> 55	
7016061	Flashing Arrow Panel	Each-Day	2	4	3	4	3			1	17	
7016067	Changeable Message Board (Contractor furnished)	Each-Day	6	12	9	12	9	2	2	1	53	
7016080	Flagging Services (DPS)	Hour	48	96	72	96	72	8	10	12	414	

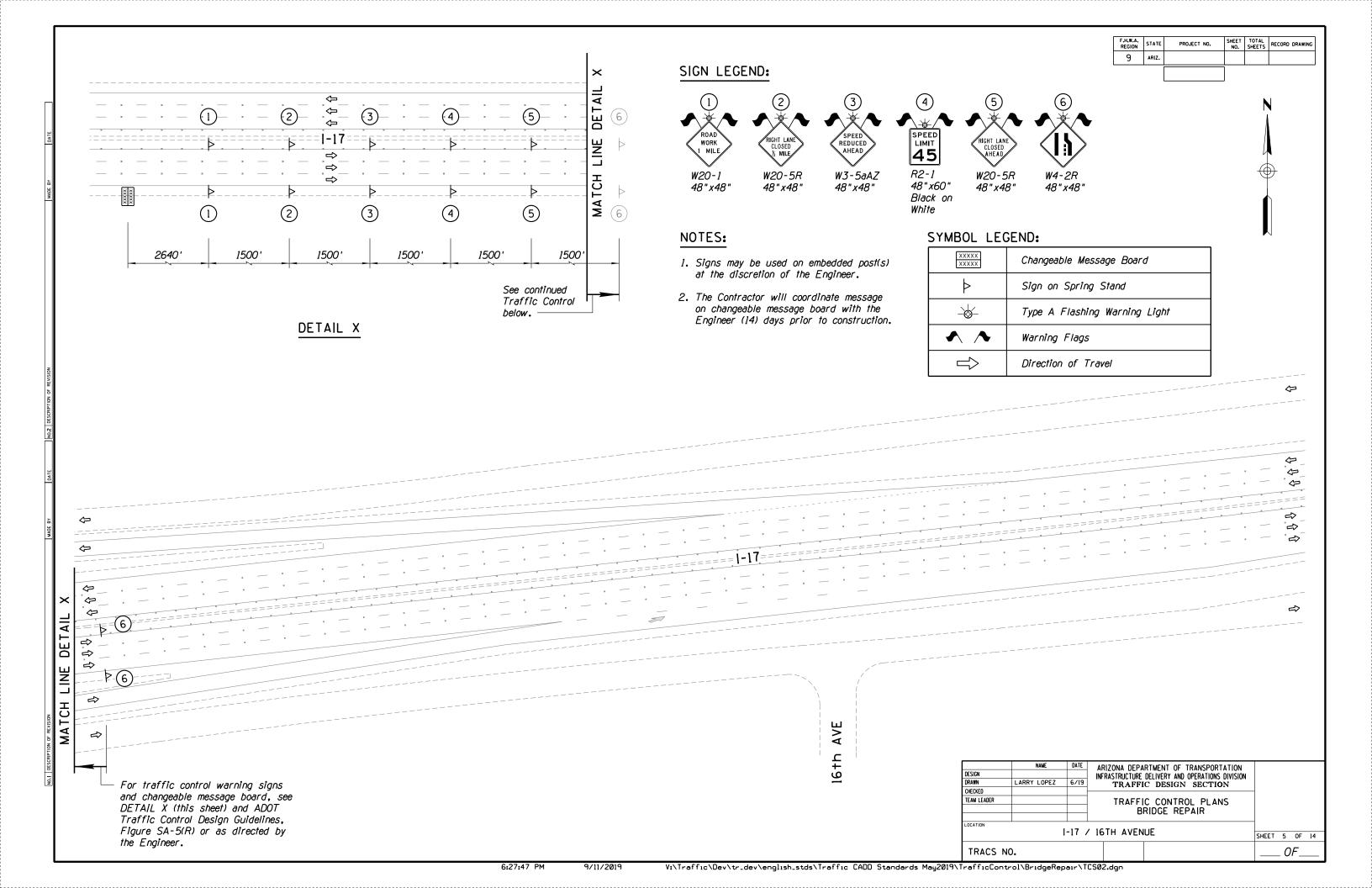
	APPROXIMATE PAVEMENT MARKING QUANTITIES									
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY							
7040005	Pavement Marking (White Extruded Thermoplastic)(0.090")	LF	300							
7060017	Pavement Marker (Raised Type G)	Each	8							
7080001	Pavement Marking (Painted) (White)	LF	1,576							
7080121	Pavement Marking (Painted Symbol)(Arrow)	Each	4							
7080221	Pavement Marking (Painted Legend)(ONLY)	Each	2							

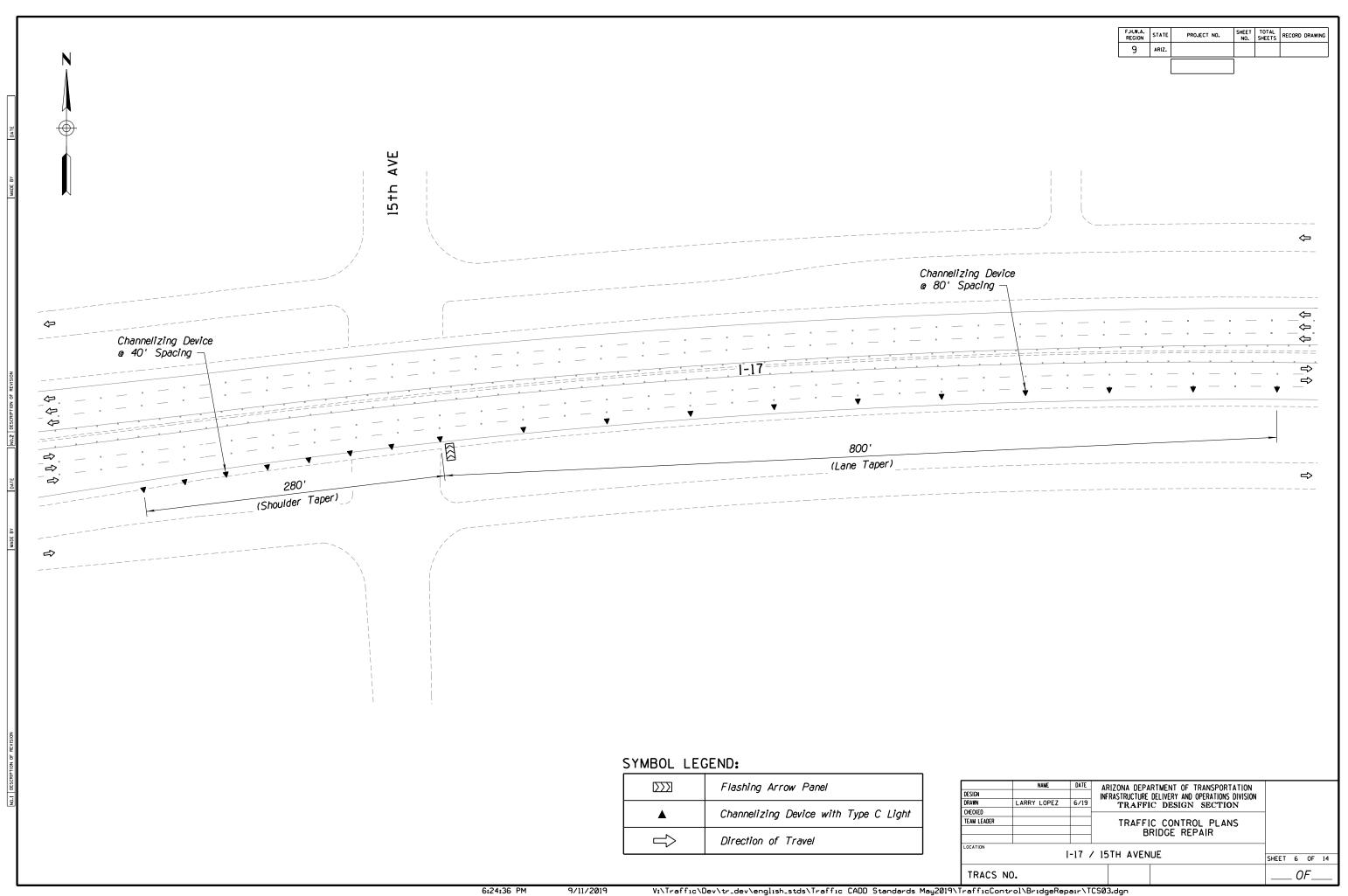
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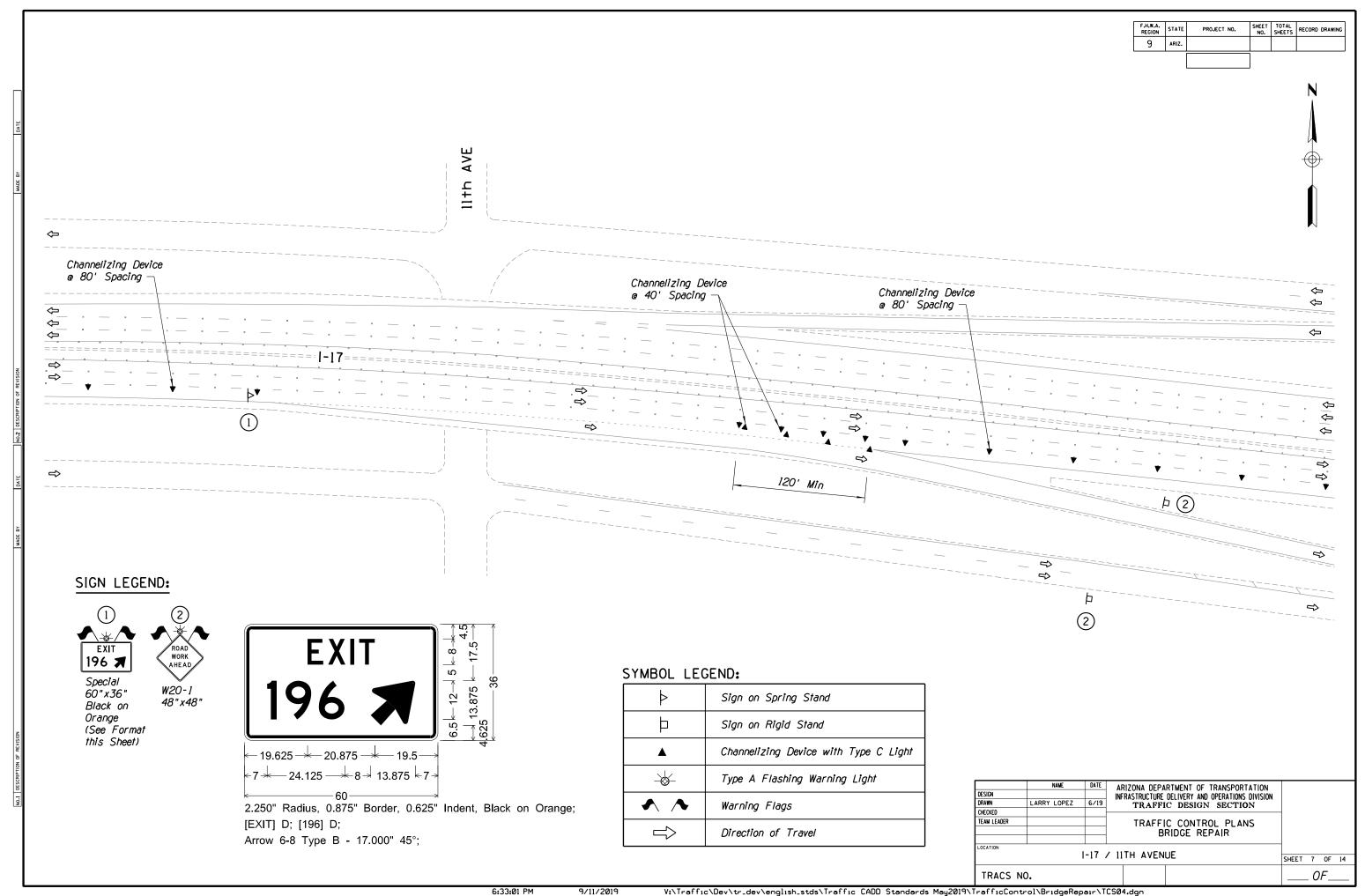
- The order of construction activities does not constitute a sequence of construction.
 The contractor shall perform the work in the most expeditious manner consistent with the plans and special provisions with approval of the Engineer.
- 2. All pavement marking quantities are calculated as 4" equivalents.
- 3. Placement of advance warning sign is included in Activity 1, Item #7016067

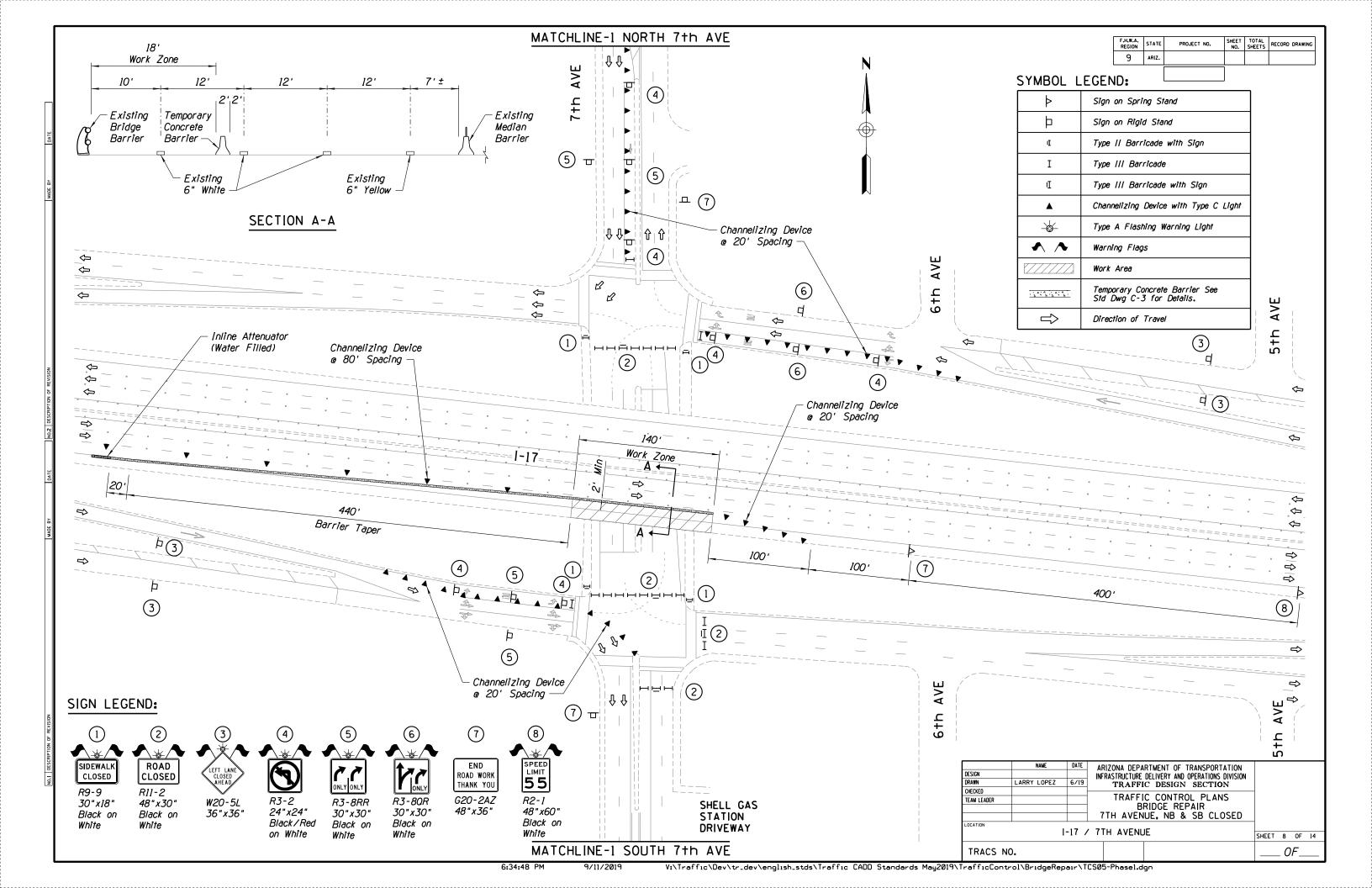
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SECTION TRAFFIC CONTROL AND PAVEMENT MARKING QUANTITIES BRIDGE REPAIR					
DRAWN	LARRY LOPEZ	6/19						
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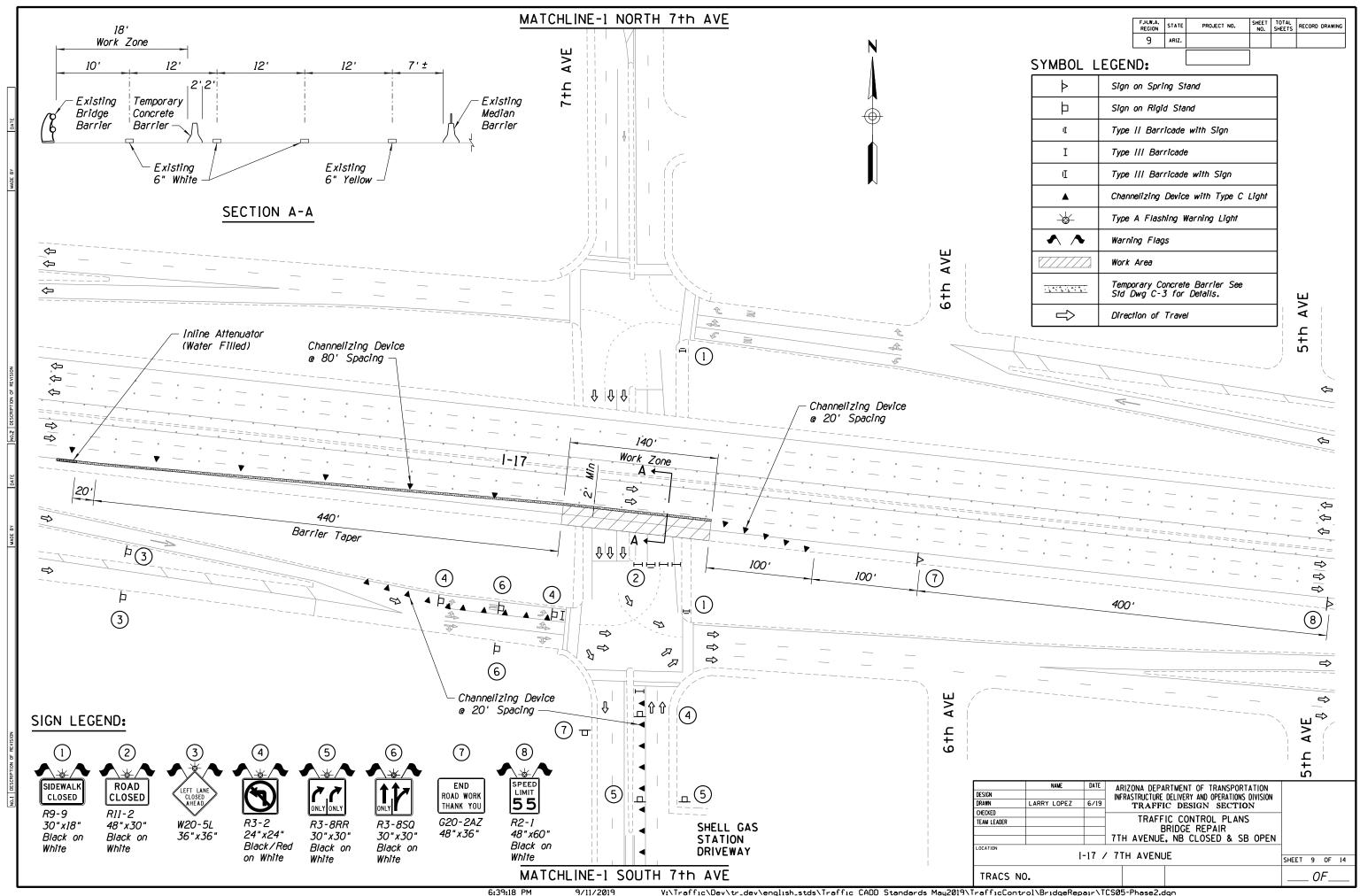


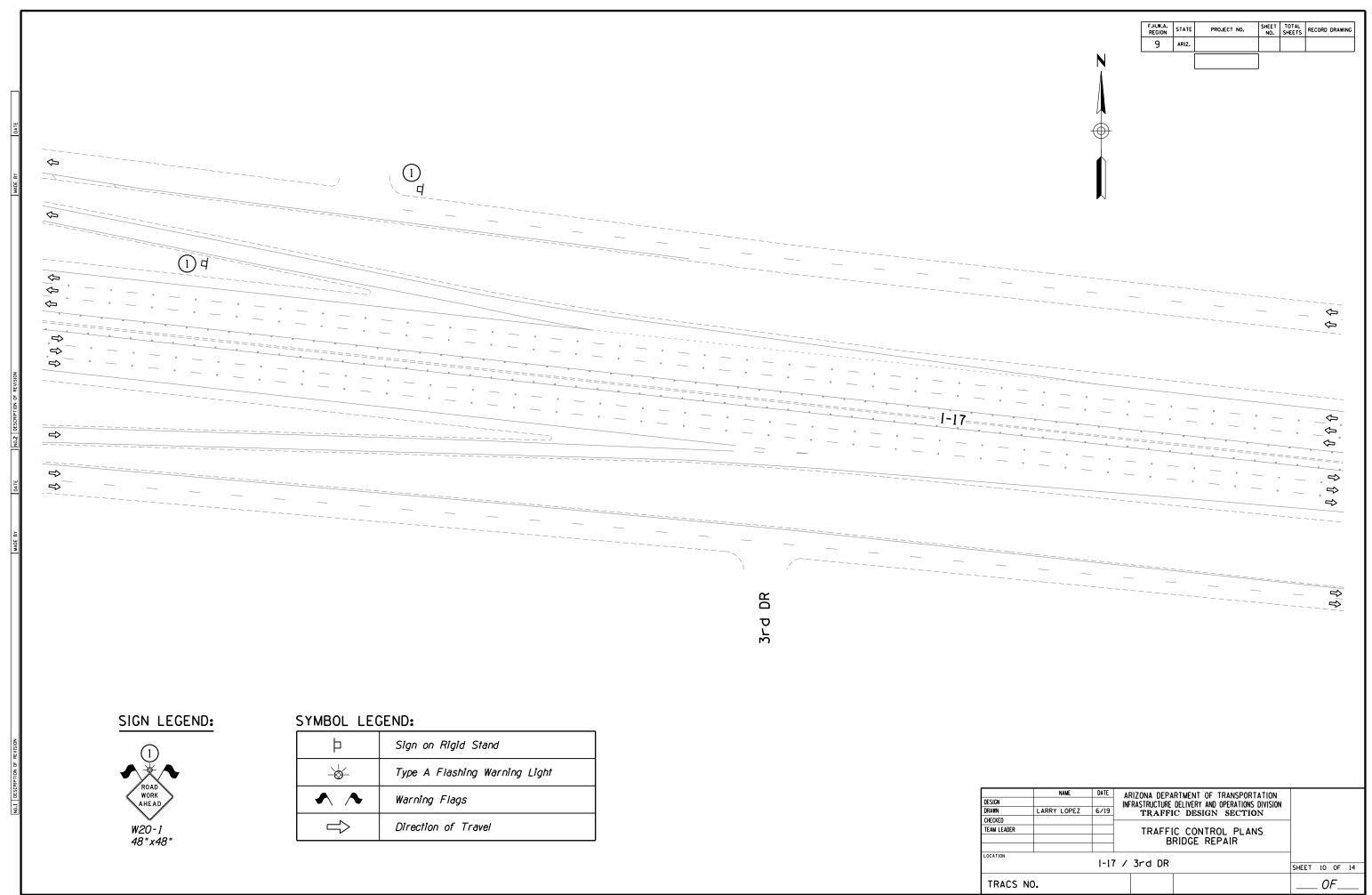


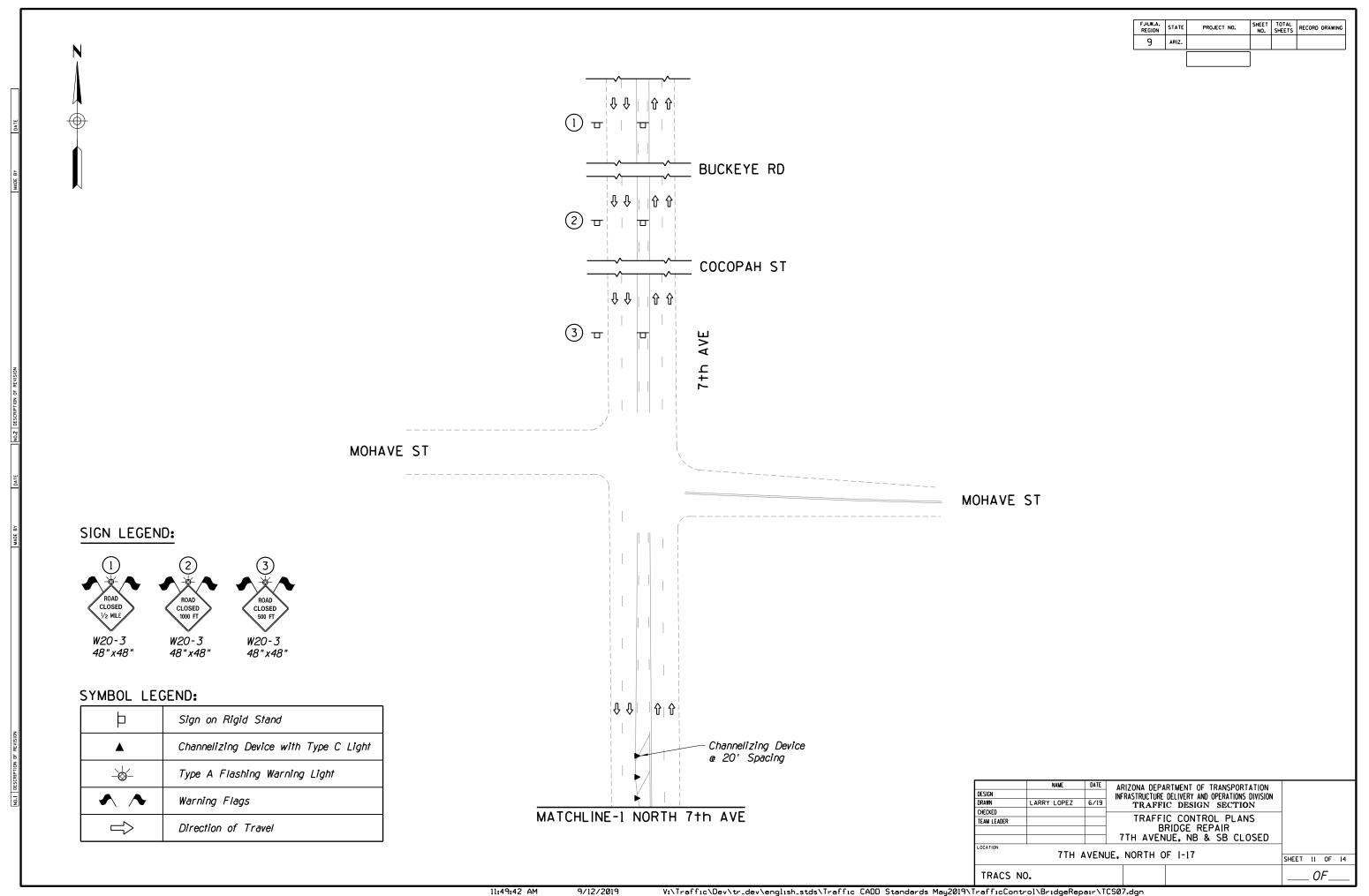


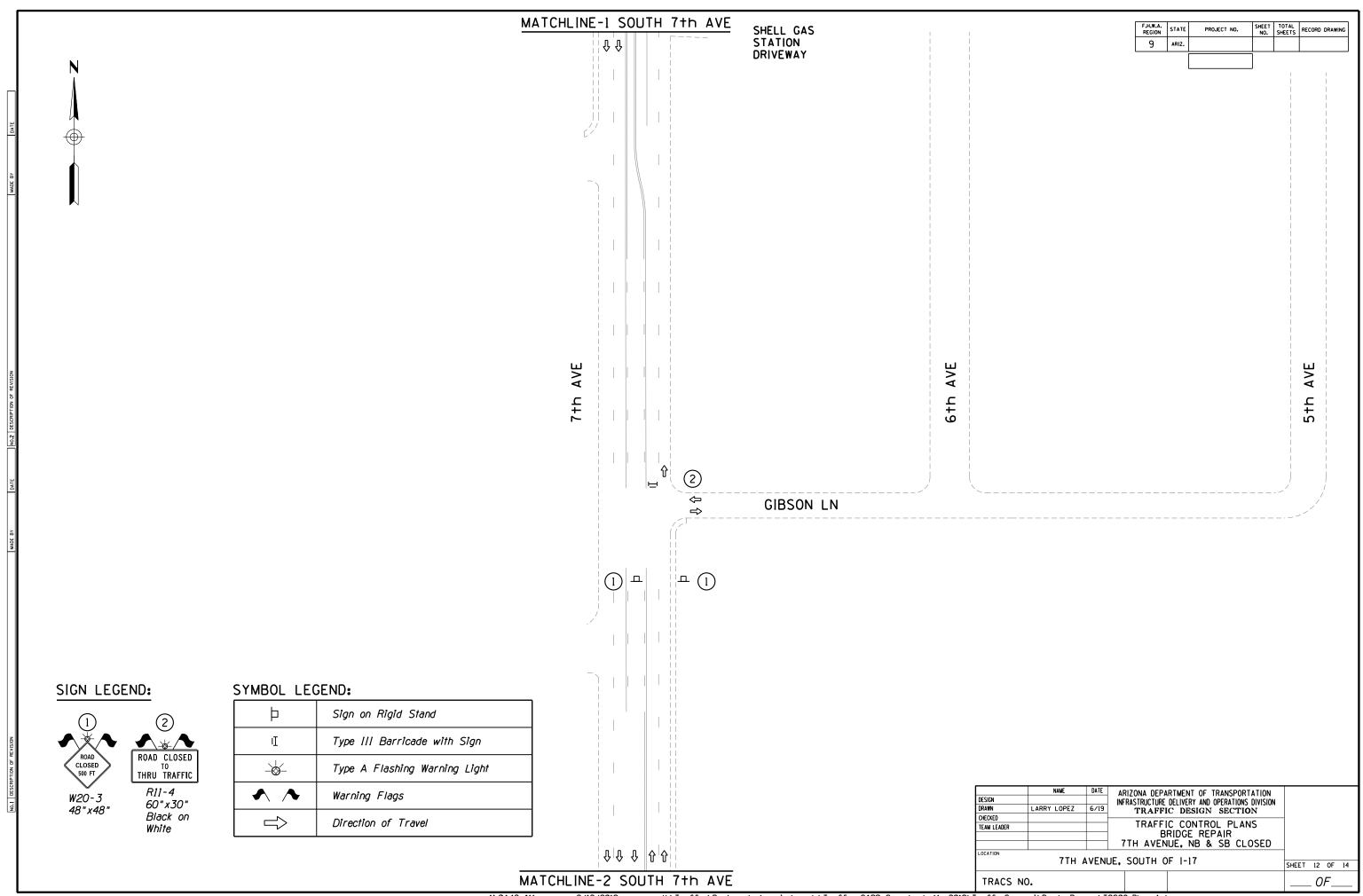


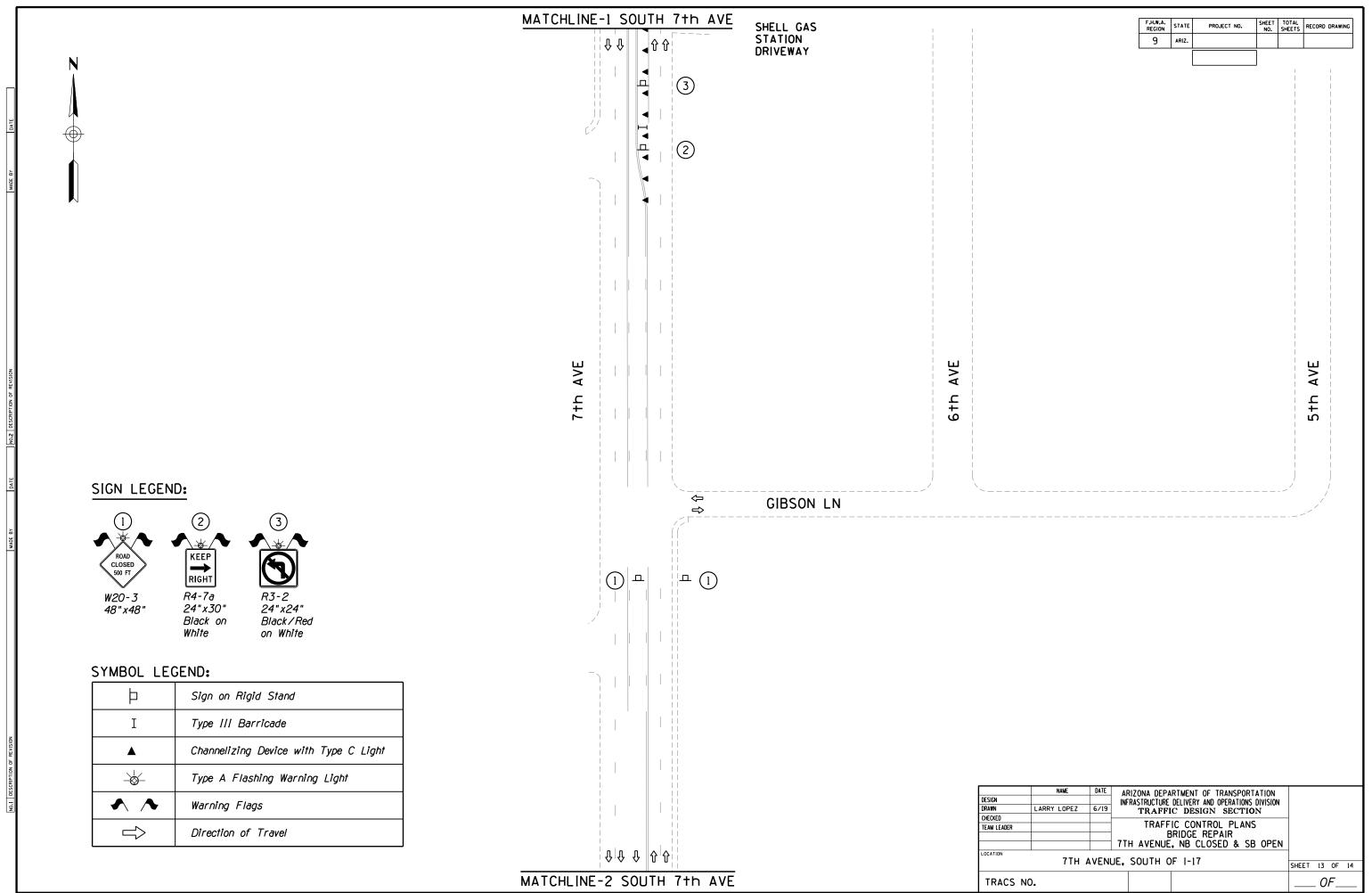


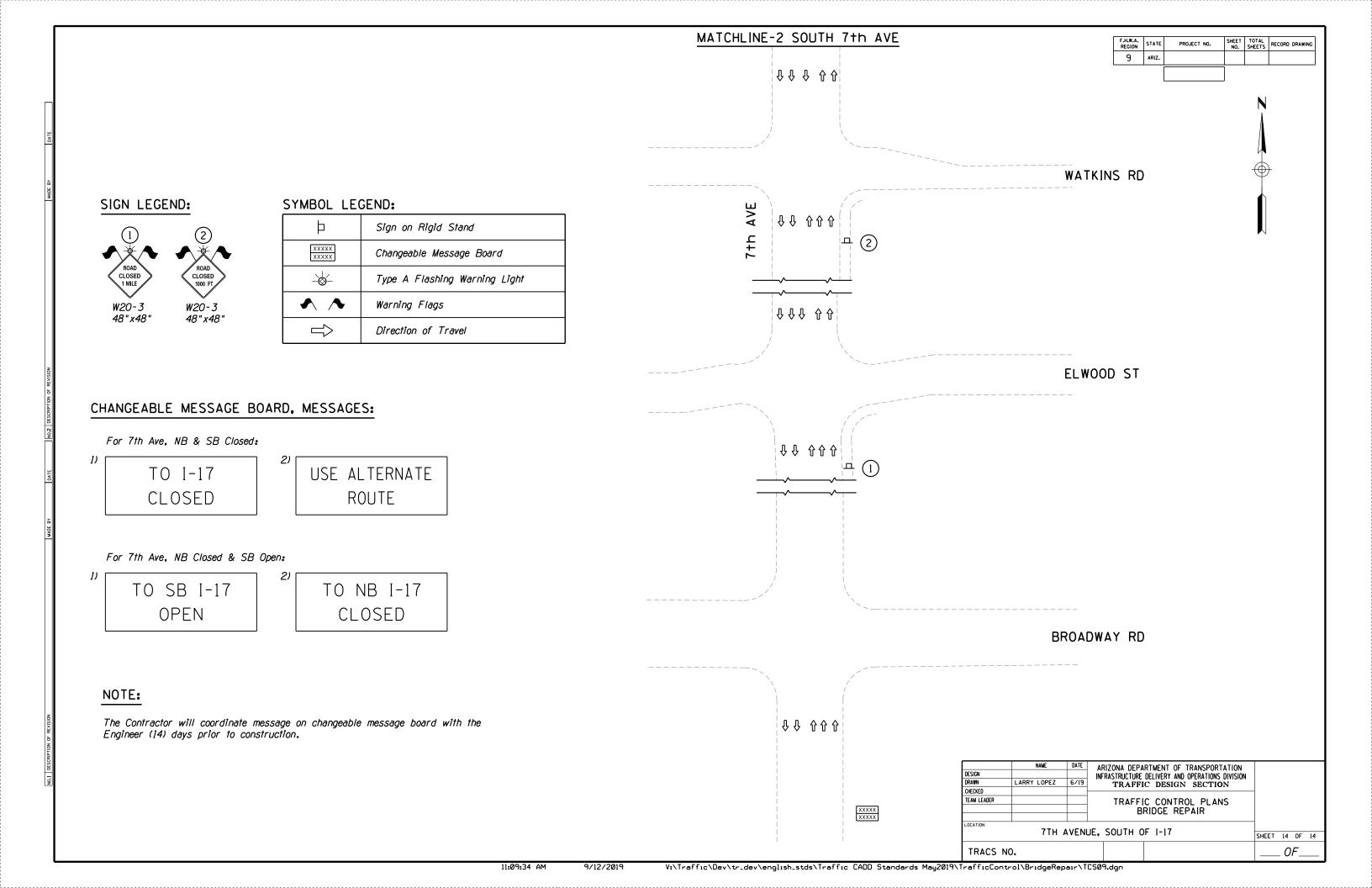












CULVERT INSTALLATION, TRAFFIC CONTROL DETOUR

GUIDELINES FOR TYPICAL, CULVERT INSTALLATION, TRAFFIC CONTROL DETOUR

- 1. The contents of this drawing shall be used as a guide for drafting ADOT Traffic Engineering plans and should not be used as a design aid.
- 2. This drawing is a labeling and dimensioning presentation.
- 3. Drawings can be 20, 40, 50 or 100 scale (the border is a reference file attached 1:5 (20 scale), 1:2.5 (40 scale), 1:2 (50 scale), 1:1 (100 scale), These types of drawings can be schematic and not to scale. Text size TX = 17.5' (100 scale), 8.75' (50 scale), 7' (40 scale), 3.5' (20 scale), (see Note #19). For Title Text see Notes #12, #13 and #17. The Border File has Data Fields for placement of Title Block Text, For Title Block Text that is sheet specific, the Data Fields need to be copied up into the Sheet File. Title Block Text that is not sheet specific can and should live in the Border File to avoid duplication of work.
- 4. For labeling text use Title Case. The first letter of each word is capitalized. Words that would not typically be capitalized within a label are words defined as definite articles ("the"), indefinite articles ("a" and "an"), and coordinating conjunctions ("and", "but", "if", "or", "for", "yet", "so", "non" and "nor").
- 5. Label text doe not use punctuation. See Signing & Marking and Signal & Lighting Standard Drawings for Standard Abbreviations.
- 6. ALL existing items not part of the Bid Set and/or Contractor Construction Responsibility are to be screened (gray/level overrides). All graphic element items shall follow the ADOT LEVEL STRUCTURE.
- 7. WORK ZONE (Hatched Area): LV = 15 CO=LV WT = 0LC = 0
- 8. EDGE OF ROAD. PAVEMENT PRESERVATION LIMITS AND NEWLY CONSTRUCTED ROADWAY ITEMS (non Traffic Items are shown as existing): LV = 16 CO=LV WT = 0LC = 3
- 9. CURB AND GUTTER: LV = 23 CO = LV WT = 0LC = 2 For all other Existing Items (bridges, quardrail, etc), see ADOT LEVEL STRUCTURE for (existing) level placement/level overrides. The line weight of any existing item can be adjusted to the Designer's discretion as long as it is screened (gray).
- 10. LANE LINE AND EDGELINE STRIPING: LV = 46 (Existing LV = 17) CO = O for White pavement markings CO = 17 for Yellow pavement markings WT = 3 for 6" striping WT = 6 for 12" striping WT = 9 for 18" striping WT = 12 for 24" striping LC = (see custom linestyle names) These pavement markings can live in a Master Base File or a Sheet File.

- 11. CELL PLACEMENT: LV = Cell attributes are built-in but can be adjusted to the Designer's discretion. LV = 17 for existing traffic items/cells. (levels that screen/level overrides). WT = 0 for filled cells (CO = 17 for existing filled cells). The weight of any cell may be adjusted to the Designer's discretion. Pavement Arrows and "Only" legend pavement markings are cells that usually live in a Master Base File but can be shown in a Sheet File. These cells are brought into a Master Base File at AS=1. The North Arrow cell is placed or copied into each Sheet File at the same drawing scale (AS = Sheet File Scale).
- LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control), LV = 25(Match Line) CO = LVWT = 6 FT = 1 TX = 22' (100 scale), 11' (50 scale), 8.8' (40 scale), 4.4' (20 scale) $LS = \frac{1}{2}$ text height Text Justification = Center Bottom (also Center Top if using description text below the underline). This text uses upper case and does not have descenders.
- 13. All Title Text (Detail Titles) that are not in a Table or labeling roadways/street names will have an underline. This underline has all the same element attributes as the Title Text with the LC=0.
- LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control) CO = IVWT = 4FT=23 or 36 (font 36 has special characters for Signal & Lighting plans). TX = 17.5' (100 scale), 8.75' (50 scale), 7' (40 scale), 3.5' (20 scale) $LS = 0.625 \times (text\ height)$ Text Justification = Left Top (Because when editing, text will grow from top left and shrink from the bottom right). This text uses upper and lower case and has descenders.
- 15. LABEL TEXT: LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control) WT = 4, WT = 2 (for smaller text used under Traffic Control Signs) FT = 23 or 36 (font 36 has special characters for Signal & Lighting plans). TX = See Notes #3 and #19 $LS=0.625 \times (text\ height)$ Text Justification = Left Top (Because when editing, text will grow from top left and shrink from the bottom right). This text uses Title Case and has descenders
- 16. DIMENSION TEXT AND STATION CONTROL POINT TEXT: LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control) CO=LV WT = 4FT=23 or 36 (font 36 has special characters for Signal & Lighting plans). TX = See Notes #3 and #19 LS=0.625 x (text height) (space above and below the dimension line) Text Justification = Center Bottom (also Center Top if using description text below the dimension line) This text uses Title Case and has descenders because it sometimes includes a description.
- 17. CENTERLINE TITLE TEXT: (500' Stationing) LV = 21 CO=LV WT = 1FT=1 TX = 22' (100 scale), 11' (50 scale), 8.8' (40 scale), 4.4' (20 scale) Text Justification = Center Center This text uses upper case and does not have descenders.

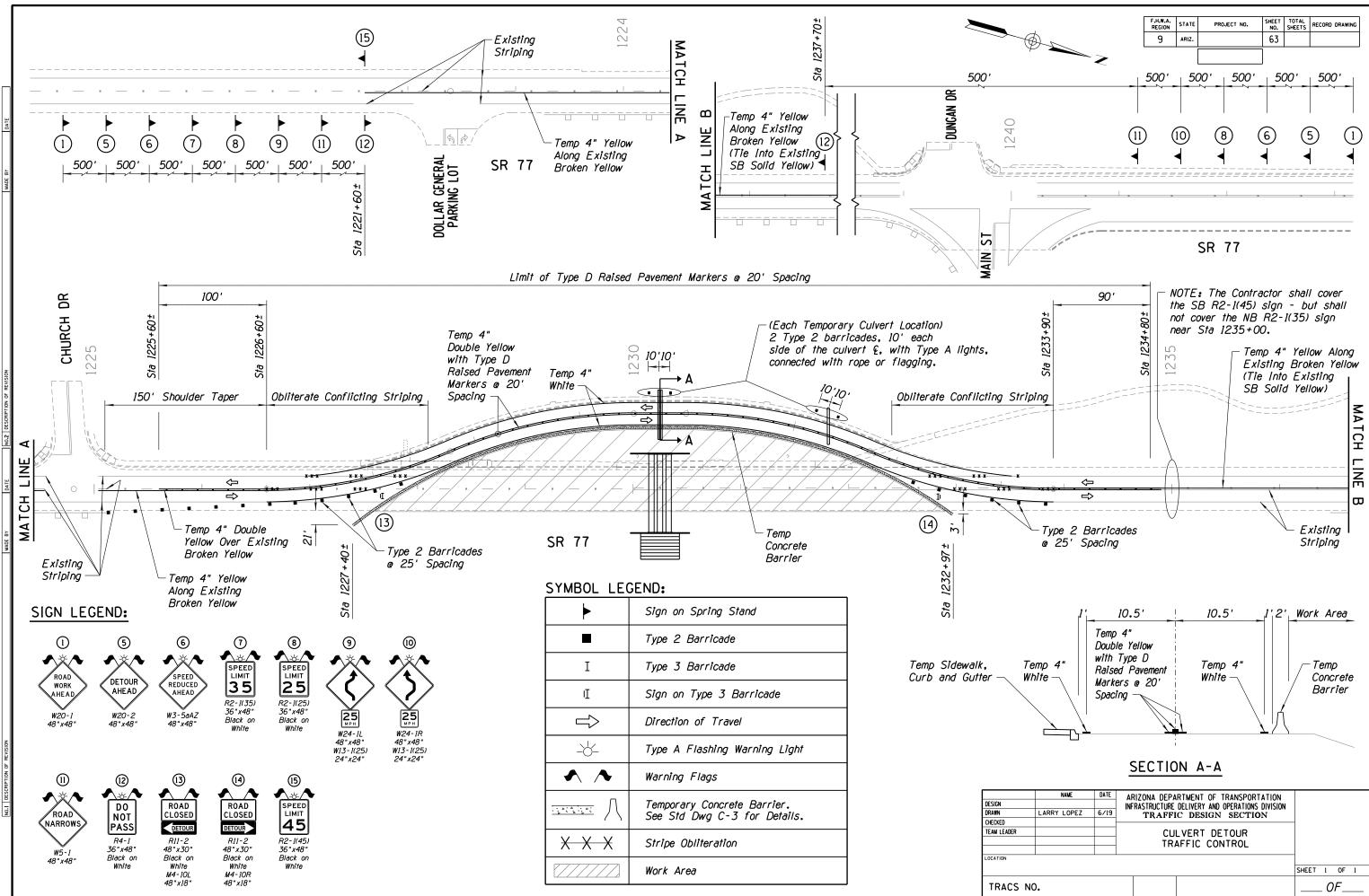
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18. CENTERLINE DATA TEXT: (Curve Data, Station Equation) LV = 21 CO=LV WT = 1FT=23 TX = See Notes #3 and #19 $LS = 0.625 \times (text\ height)$ Text Justification = Ďesigner's discretion

22. LEADER EXTENSION LINE:

- 19. All text can be squeezed to fit tight spaces and to the Designer's discretion as long as it is legible when printed hard copy and in all pdf formats (half size/full size).
- 20. CENTERLINE TICK MARKS: LV = 20 CO=LV WT = 1LC = 0 These tick marks are to be displayed screened (gray). Note; the centerline is never displayed so it won't conflict with striping.
- 21. LEADER LINE: LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control) CO=LV WT = 1LC = Leader The leader line scale factor is 0.2 (20 scale), 0.4 (40 scale), 0.5 (50 scale), 1 (100 scale). Once you have created both and attached together, it is recommended to group together. Then you can copy and move to other label text. Using the modify command forces the arrowhead to follow the line angle modified because it is a custom linestyle.
- LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control) CO = LV Temp 4" Temp 4" Temp 4" WT = 1White White — White -LC = 0 The, Leader Extension, line length = Text Height (can be adjusted longer if coming off the right bottom on stacked text when the last line of text is shorter and the leader line is pointing up). It is spaced away from the text, $\frac{1}{2}$ text height. It can be center eye-balled in the middle of the text from the top left or bottom right. (See example above)
- 23. DIMENSION LINES: LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control) CO=LV WT = 1LC = DimLeader (DimLeader2 is for dimensioning a space smaller than the size of arrowheads so that the arrowheads point towards each other). The dimension line scale factor is 0.2 (20 scale), 0.4 (40 scale), 0.5 (50 scale), 1 (100 scale).
- 24. DIMENSION EXTENSION LINES: LV = 47(Striping), LV = 55(Signing), LV = 43(Traffic Control) CO = LV WT = 1LC = 0

	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION				
DESIGN			INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION				
DRAWN	LARRY LOPEZ	6/19	TRAFFIC DESIGN SECTION				
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PAVEMENT MARKING NOTES AND QUANTITIES

GUIDELINES FOR TYPICAL, PAVEMENT MARKING, NOTES AND QUANTITIES PLAN SHEET

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

- 1. The contents of this drawing shall be used as a guide for drafting ADOT Traffic Engineering plans and should not be used as a design aid.
- 2. This drawing is a typical Pavement Marking Notes and Quantities plan sheet presentation.
- 3. This drawing is created 100 scale (the border is a reference file attached 1:1). The Border File has Data Fields for placement of Title Block Text. For Title Block Text that is sheet specific, the Data Fields need to be copied up into the Sheet File. Title Block Text that is not sheet specific can and should live in the Border File to avoid duplication of work.
- 4. For table, discription text, use Title Case. The first letter of each word is capitalized. Words that would not typically be capitalized within a label are words defined as definite articles ("the"), indefinite articles ("a" and "an"), and coordinating conjunctions ("and", "but", "if", "or", "for", "yet", "so", "non" and "nor").
- 5. Table, Item No discription text, does not include punctuation except for the comma in numbers over one thousand (1,000) or decimal fractions (1.5). See Signing & Marking and Signal & Lighting Standard Drawings for Standard Abbreviations.
- 6. TABLE TITLE TEXT:

 (APPROXIMATE PAVEMENT MARKING QUANTITIES)

 LV = 47

 CO = LV

 WT = 6

 FT = 1

 TX = 22' (100 scale)

 LS = ½ text height (This means the space above and below Chart Title Text inside a box is minimum 11'.

 Table Title Text uses upper case only.

 Text Justification = Center Center (to be centered in box spaces)
- 7. TABLE CATEGORY TITLE TEXT:

 (ITEM NO), (ITEM), (UNIT), (TOTAL)

 LV = 47

 CO = LV

 WT = 5

 FT = 1

 TX = 17.5' (100 scale)

 LS = ½ text height (This means the space above and below Table Title Text inside a box is minimum 8.75'.

 Table Category Title Text uses upper case only.

 Text Justification = Center Center (to be centered in box spaces)
- 8. NOTES TITLE TEXT:
 LV = 47
 CO = LV
 WT = 6
 FT = 1
 TX = 22' (100 scale)
 LS = ½ text height
 Text Justification = Center Bottom
 This text uses upper case and does not have descenders.
 All Title Text (Detail Titles) that is not in a Table or labeling
 roadways/street names will have an underline. This underline has all
 the same element attributes as the Title Text with the LC = 0.

- 9. TABLE, ITEM NO, DESCRIPTION TITLE TEXT:
 LV = 47
 CO = LV
 WT = 4
 FT = 23 or 36 (font 36 has special characters for Signal & Lighting plans)
 TX = 17.5' (100 scale)
 LS = 1/2 text height = 8.75
 Text Justification = Center Center
- LV = 47
 CO = LV
 WT = 4
 FT = 23 or 36 (font 36 has special characters for Signal & Lighting plans)
 TX = 17.5' (100 scale)
 LS = 0.625 x (text height) (this is different than Title Text because Notes Text uses upper and lower case which has descenders)
 Text Justification = Left Center for notes type description, Right Center for numbers. (Because when editing, text will shrink or grow from the center left and for numbers the columns line up numerically and text will shrink or grow from the center right)
- 11. NOTES TEXT:
 LV = 47
 CO = LV
 WT = 4
 FT = 23 or 36 (font 36 has special characters for Signal & Lighting plans)
 TX = 17.5' (100 scale)
 LS = 0.625 x (text height) (this is different than Title Text because Notes Text uses upper and lower case which has descenders)
 Text Justification = Left Top (Because when editing, text will grow from top left and shrink from the bottom right.)
- 12. All text can be squeezed to fit tight spaces and to the Designer's discretion as long as it is legible when printed hard copy and in all pdf formats (half size/full size).
- 13. TABLE, OUTSIDE BORDER LINES: LV = 47 CO = LV WT = 5 LC = 0
- 14. INSIDE BORDER LINES: LV = 47 CO = LV WT = 3 LC = 0

10. TABLE BODY TEXT:

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			PAVEMENT MARKING							
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PAVEMENT MARKING NOTES:

- 1. It is the contractor's responsibility to ensure that the final surface course is placed so that the striping is offset 1 foot clear of the construction joint, unless otherwise directed by the Engineer.
- 2. The contractor shall be responsible for the layout and installation of pavement markings on the final surface course following points that have been set no more than 50 feet apart on the alignment of the yellow striping.
- 3. The dimensions shown to pavement striping are to the center of the striping or, in the case of double striping, to the center of the double striping.
- 4. Within 48 hours of the completion of the final pavement surface each section of roadway, center lines, lane lines, edge lines, stop bars, and pavement arrows shall be striped with one application of standard reflectorized traffic paint at the locations of the permanent striping. The paint shall have a minimum thickness of 15 mils wet. All painted striping shall be 4 inches wide. However, each painted stop bar and solid white lane line shall be at least 12 inches wide.
- 5. The final striping shall be 90 mil (0.090 inch) thick alkyd extruded thermoplastic reflectorized striping placed over the initial striping a minimum of 30 calendar days after the initial striping, as directed by the Engineer. All other markings shall be applied at the same time.
- 6. All final stop bars, crosswalk lines pavement arrows, and "ONLY" legends shall be white 90 mil (0.090 inch) thick alkyd extruded thermoplastic reflectorized markings.
- 7. All reflective raised pavement markers shall have an abrasion resistant coating on the face of the prismatic reflectors and shall conform to the details of Std. Dwg. M-19. They shall be installed with an approved bituminous adhesive. They shall be new; the contractor shall not install previously used pavement markers for these markers. Type C Raised Pavement Markers shall be installed so that the clear face of each marker is facing approaching traffic.
- 8. All reflective raised pavement markers shall be installed so that the reflective face of each marker is facing the direction of traffic and is perpendicular to the direction of traffic flow.
- 9. Where raised pavement markers are placed between double yellow striping, they shall be centered in the 6 inch gap between the lines, except as otherwise indicated on the plans. For broken yellow striping, the markers shall be placed to align with the broken yellow striping. Where raised pavement markers are placed along solid white striping, the nearest edge of each marker shall be offset 2 inches from the nearest edge of the striping on the side of the through lane.
- 10. Th contractor shall clean the roadway surface to the satisfaction of the Engineer, by sweeping and air-jet blowing, immediately prior to the placement of all pavement markings. The roadway surface shall be dry and the air and pavement temperatures shall not be less than 55°F for the placement of thermoplastic striping.
- 11. The contractor shall break, as needed or directed by the Engineer, the SR 77 center line and all edge line striping from River Rd. (MP 72.06) to Calle Concordia (MP 77.36). The contractor shall also break the nearby edge line across other turnouts.
- 12. When stripe obliteration is necessary, it shall be accomplished by approved methods. Painting over striping, removal of pavement, and overlaying pavement do not constitute stripe obliteration.

- 13. The pavement marking drawings are schematic and not to scale. The contractor shall follow all dimensions and details when installing pavement markings.
- 14. The contractor shall delineate the new ends of the guardrail in accordance with Std. Dwg. M-34. There shall be no measurement or payment for the guardrail end treatment delineation as the cost is included in other contract bid items.
- 15. The contractor shall delineate the existing barrier walls along SR 77 with BM-1 (white) barrier markers in accordance with Std. Dwgs. M-32 and M-33. The contractor shall affix evenly-spaced barrier markers on the roadway side of each existing barrier wall. There shall be no measurement or payment for the barrier markers as the cost is included in other contract bid items.
- 16. The contractor shall remove the existing pavement markers on SR 77 in conjunction with the construction operations. There shall be no measurement or payment for the removal of the existing pavement markers.
- 17. Single arrow, and " ONLY " legends shall be installed in accordance with ADOT Standard Drawing.

- 18. The Engineer may modify the pavement marking plans.
- 19. Single arrow, and " ONLY " legends shall be installed in accordance with ADOT Standard Drawing.
- 20. The contractor shall paint the curb at the ends of the raised islands and shall apply a minimum of four RPMs per end in accordance with these plans, the special provisions, and Std. Dwg. M-1.
- 21. The contractor shall contact South Central Regional Signing and Striping Section (Xavier Casillas) at (520) 838-2828 at least five working days prior to final striping layout to coordinate the layout inspection.
- 22. The contractor shall remove the curing compound and apply primer-sealer before installing the final striping on the bridge decks for a width of 10 inches per line of striping in accordance with the Specifications.

	APPROXIMATE PAVEMENT MARKING QUANTITIES									
ITEM NUMBER	ITEM		UNIT	TOTAL						
7040005	Permanent Pavement Marking	6" White	LF	138,251						
7040006	90 Mil Extruded Thermoplastic (4" Equivalent)	6" Yellow	LF	75,620						
7040072		Transverse (4" Equivalent)	LF	8 , 497						
7040073	White 90 Mil Alkyd Extruded Thermoplastic Pavement Marking	Pavement Legend	Each	78						
7040074	T Overlien marking	Pavement Symbol	Each	154						
7060013	Opined Opinement Harkers	Type C		1,142						
7060015	Raised Pavement Markers	Type D	Each	24						
7080001		4" White	LF	146,748						
7080011		4" Yellow		75,545						
7080121	Standard Reflectorized Traffic Paint	Pavement Symbol - Arrow	Each	154						
7080221		Pavement Legend ONLY	Each	78						
7080301		Painted Bull Nose	Each	61						

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GORE PAVEMENT MARKING PLANS

GUIDELINES FOR TYPICAL GORE PAVEMENT MARKING PLANS

11. TITLE TEXT:

- 1. The contents of these drawings shall be used as a quide for drafting ADOT Traffic Engineering plans and should not be used as a design aid.
- 2. These drawing are a labeling and dimensioning presentation.
- 3. These drawings are cut 40 scale (the border is a reference file attached 1:2.5). These cuts are perfect sheet to sheet and do not need Matchlines on the mainline road. Text size for 40 scale is; TX = 0.4 x 17.5' = 7' (see Note #18). For Title Text see Notes #11, #12 and 16.

The blowup details are proportionally scaled up for detailed dimensioning and labeling clarity.

The Border File has Data Fields for placement of Title Block Text. For Title Block Text that is sheet specific, the Data Fields need to be copied up into the Sheet File. Title Block Text that is not sheet specific can and should live in the Border File to avoid duplication of work.

- 4. For labeling text use Title Case. The first letter of each word is capitalized. Words that would not typically be capitalized within a label are words defined as definite articles ("the"), indefinite articles ("a" and "an"), and coordinating conjunctions ("and", "but", "if", "or", "for", "yet", "so", "non" and "nor").
- 5. Label text does not use punctuation. See Signing & Marking and Signal & Lighting Standard Drawings for Standard Abbreviations.
- 6. ALL existing items not part of the Bid Set and/or Contractor Construction Responsibility are to be screened (gray/level overrides). All graphic element items shall follow the ADOT LEVEL STRUCTURE.
- 7. EDGE OF ROAD, PAVEMENT PRESERVATION LIMITS AND NEWLY CONSTRUCTED ROADWAY ITEMS (non Traffic Items are shown as existing): LV = 16 CO=LV WT = 0LC = 3
- 8. CURB AND GUTTER: LV = 23 CO = LV

WT = 0LC = 2

For all other Existing Items (bridges, guardrail, etc), see ADOT LEVEL STRUCTURE for (existing) level placement/level overrides. The line weight of any existing item can be adjusted to the Designer's discretion as long as it is screened (gray).

9. GORE, LANE LINE AND EDGELINE STRIPING: LV = 46 CO = O for white pavement markings CO = 17 for yellow pavement markings WT = 3 for 6" striping WT = 6 for 12" striping WT = 9 for 18" striping WT = 12 for 24" striping LC = (see custom linestyle names) These pavement markings live in a Master Base File. The blowup details live in the Sheet File.

10. CELL PLACEMENT: LV = Cell attributes are built-in but can be adjusted to the Designer's LV = 17 for existing traffic items/cells. (levels that screen/level overrides). WT = 0 for filled cells (CO = 17 for existing filled cells). The weight of any cell may be adjusted to the Designer's discretion. Pavement Arrows and "Only" legend pavement markings are cells that live in a Master Base File. The blowup details live in the Sheet File.

These cells are brought into a Master Base File at AS=1. The North Arrow cell is placed or copied into each Sheet File at the same drawing scale (AS = Sheet File Scale).

LV = 47 CO=LV WT = 6 FT = 1 TX = 8.8' (40 scale) $LS = \frac{1}{2}$ text height Text Justification = Center Bottom (also Center Top if using description text below the underline). This text uses upper case and does not have descenders.

- 12. All Title Text (Detail Titles) that are not in a Table or labeling roadways/street names will have an underline. This underline has all the same element attributes as the Title Text with the LC=0.
- 13. NOTES (TEXT): IV = 47CO = IVWT = 3FT=23 or 36 (font 36 has special characters for Signal & Lighting plans). TX = 17.5' (100 scale), 8.75' (50 scale), 7' (40 scale), 3.5' (20 scale) $LS = 0.625 \times (text\ height)$ Text Justification = Left Top (Because when editing, text will grow from top left and shrink from the bottom right). This text uses upper and lower case and has descenders.
- 14. LABEL TEXT: LV = 47 CO=LV FT=23 or 36 (font 36 has special characters for Signal & Lighting plans). TX = 7' (see Note #18) $LS = 0.625 \times (text\ height)$ Text Justification = Left Top (Because when editing, text will grow from top left and shrink from the bottom right). This text uses Title Case and has descenders.
- 15. DIMENSION TEXT AND STATION CONTROL POINT TEXT: LV = 47 CO=LV WT = 4FT=23 or 36 (font 36 has special characters for Signal & Lighting plans). TX = 7' (see Note #18) LS=0.625 x (text height) (space above and below the dimension line) Text Justification = Center Bottom (also Center Top if using description text below the dimension line) This text uses Title Case and has descenders because it sometimes includes a description.
- 16. CENTERLINE TITLE TEXT: (500' Stationing) LV = 21 CO=LV WT = 1FT=1 TX = 8.8 (40 scale)Text Justification = Center Center This text uses upper case and does not have descenders.

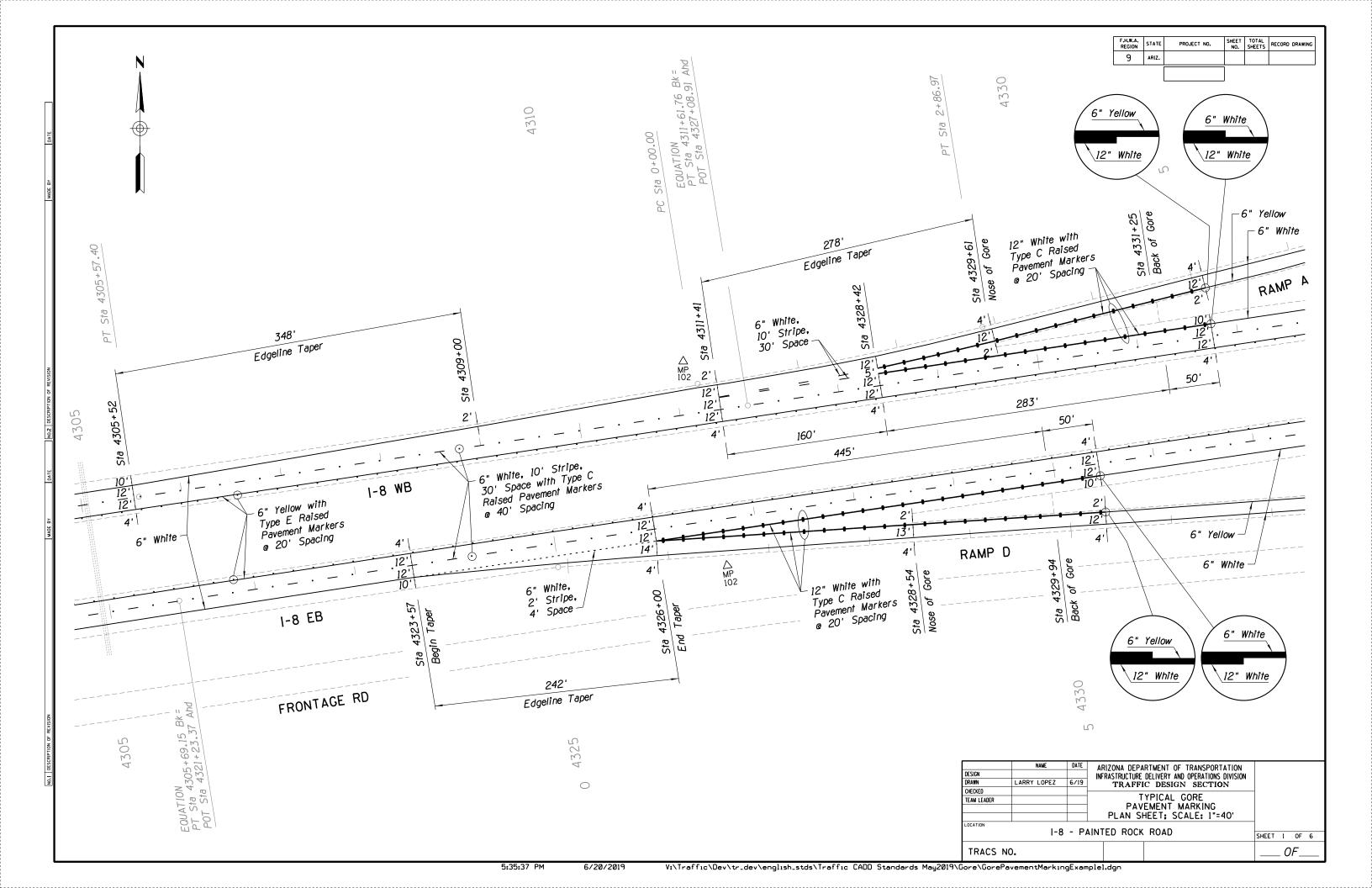
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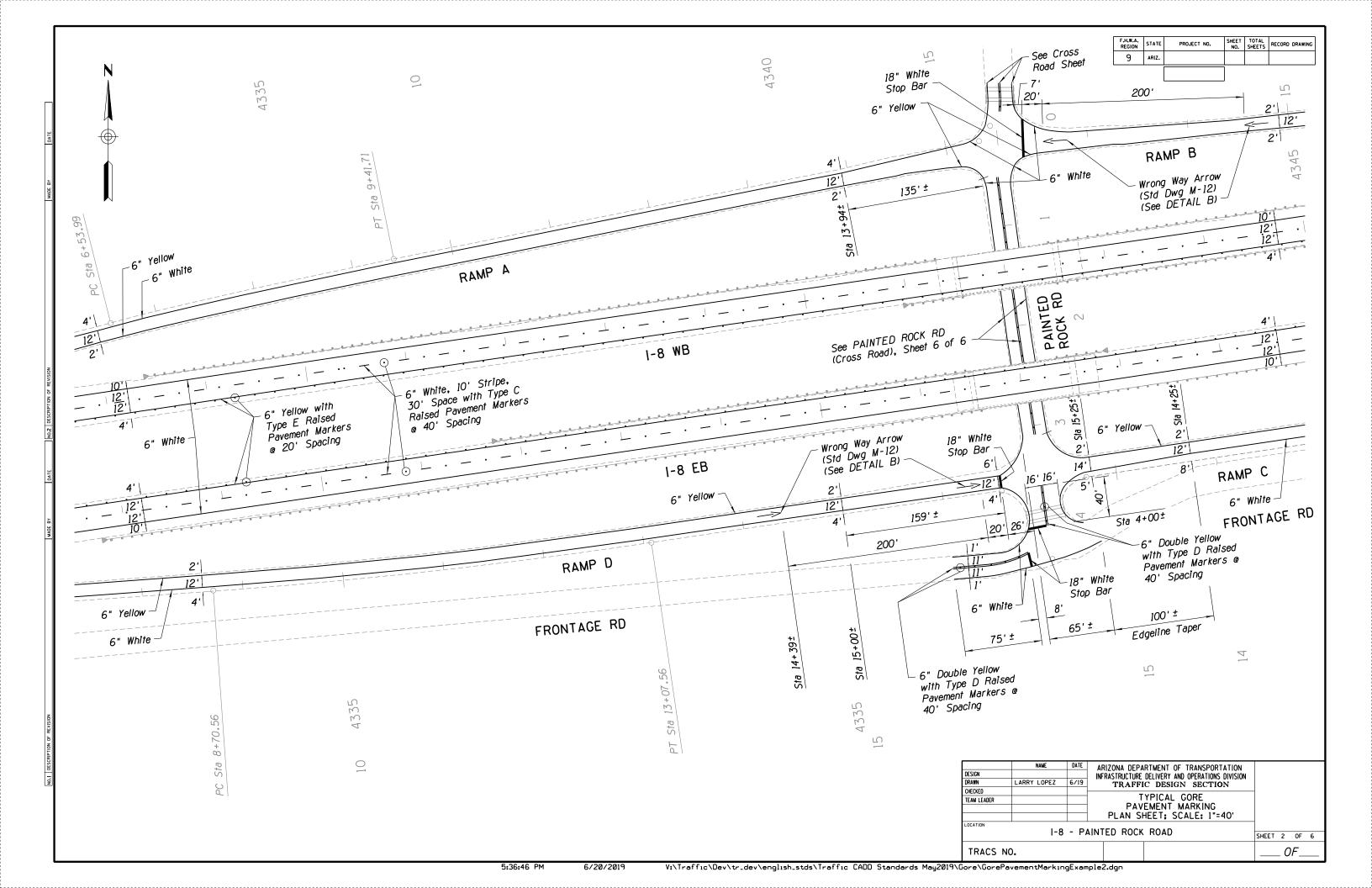
17. CENTERLINE DATA TEXT: (Curve Data, Station Equation) LV = 21 CO=LV WT = 1FT = 23 TX =7 $LS = 0.625 \times (text\ height)$ Text Justification = Ďesigner's discretion

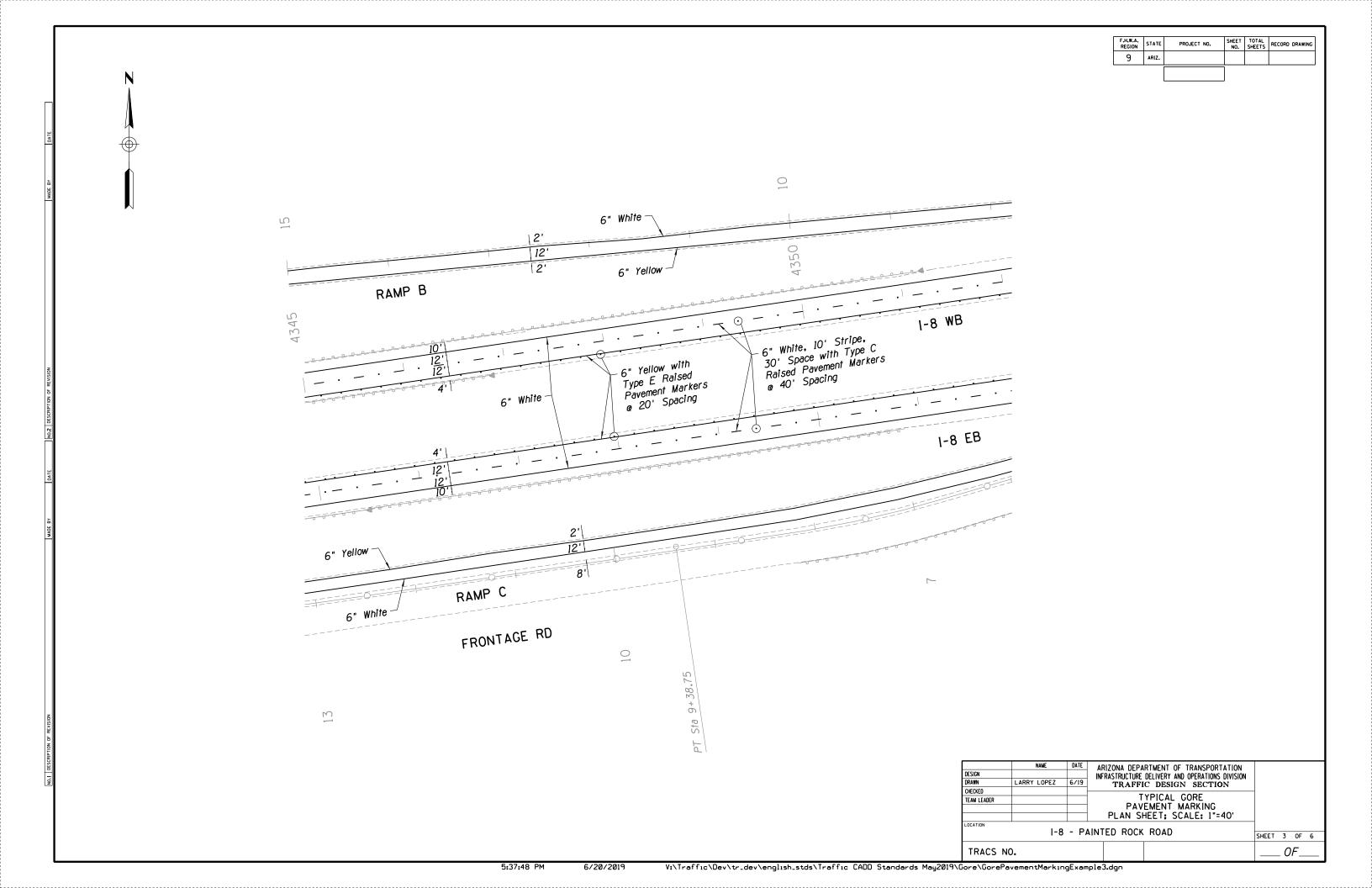
19. CENTERLINE TICK MARKS:

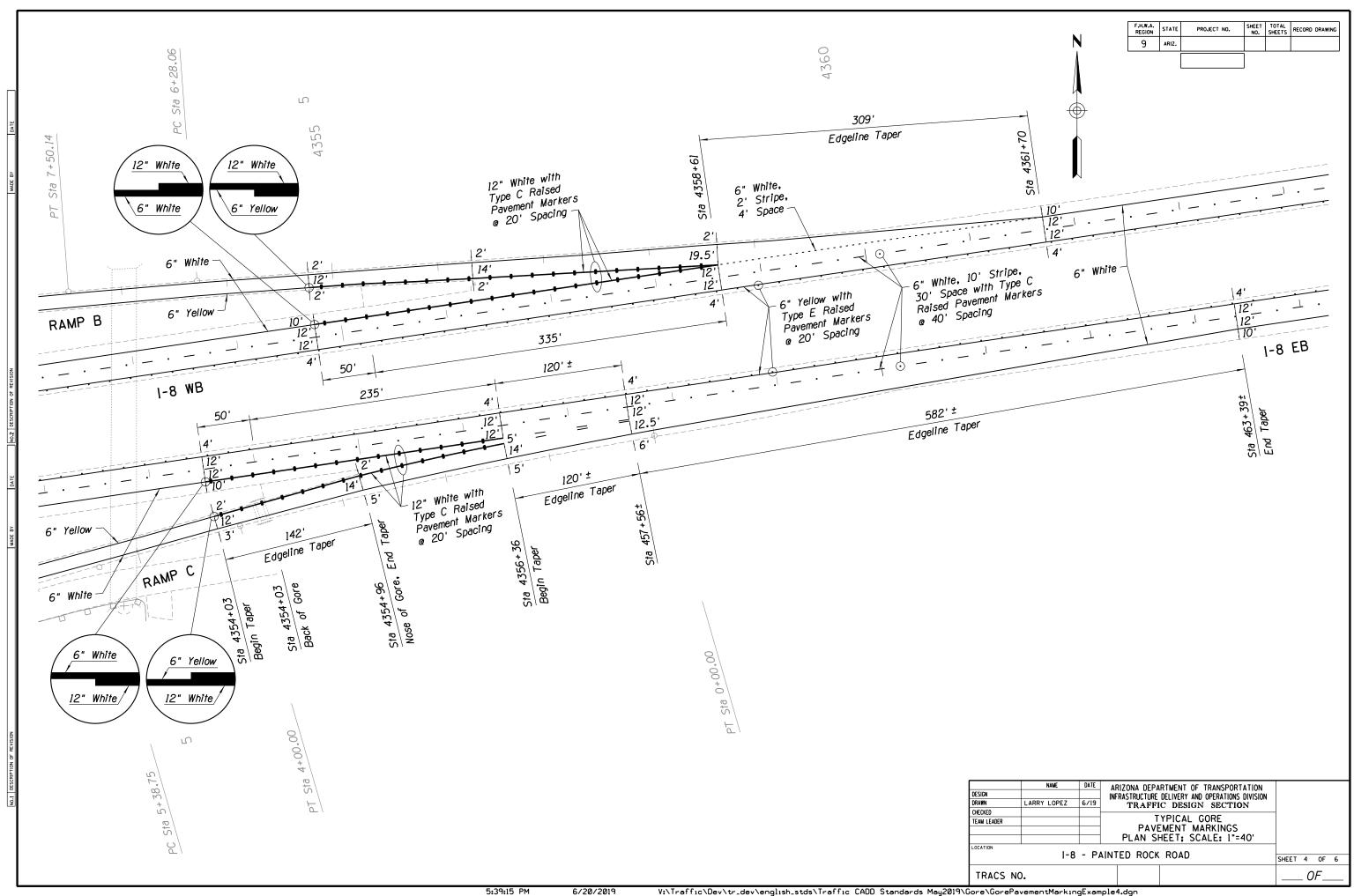
- 18. All text can be squeezed to fit tight spaces and to the Designer's discretion as long as it is legible when printed hard copy and in all pdf formats (half size/full size).
- LV = 20 CO=LV WT = 1LC = 0 These tick marks are to be displayed screened (gray). Note: the centerline is never displayed so it won't conflict with striping.
- 20. LEADER LINE: LV = 47 CO=LV WT = 1LC = Leader The leader line scale factor is 0.4 for 40 scale. Once you have created both and attached together, it is recommended to group together. Then you can copy and move to other label text. Using the modify command forces the arrowhead to follow the line angle modified because its a custom linestyle.
- 21. LEADER EXTENSION LINE: 12" White with LV = 47 18" White Type C Raised 6" White. CO=LV 10' Stripe, Pavement Markers Stop Bar — WT = 130' Space @ 40' Spacing -LC = 0 The, Leader Extension, line length = Text Height (can be adjusted longer if coming off the right bottom on stacked text when the last line of text is shorter and the leader line is pointing up). It is spaced away from the text, $\frac{1}{2}$ text height. It can be center eye-balled in the middle of the text from the top left or bottom right. (See example above)
- 22. DIMENSION LINES: LV = 47 CO=LV WT = 1LC = DimLeader (DimLeader2 is for dimensioning a space smaller than the size of arrowheads so that the arrowheads point towards each other). The dimension line scale factor is 0.4 for 40 scale For dimensioning lane widths the scale factor is half (0.2) if used.
- 23. DIMENSION EXTENSION LINES: LV = 47 CO=LV WT = 1LC = 0

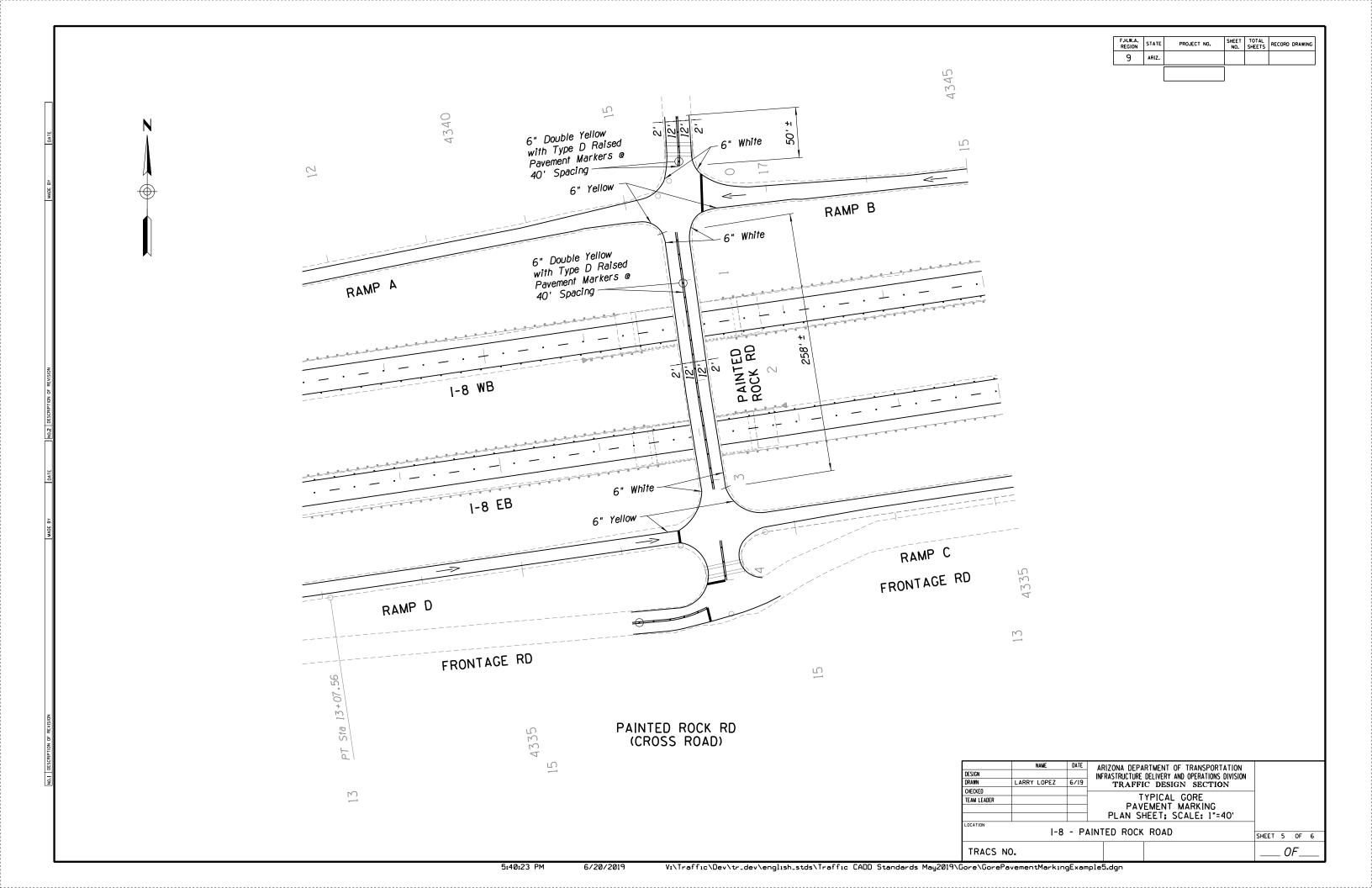
SIGN	NAME LARRY LOPEZ	DATE 6/19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION				
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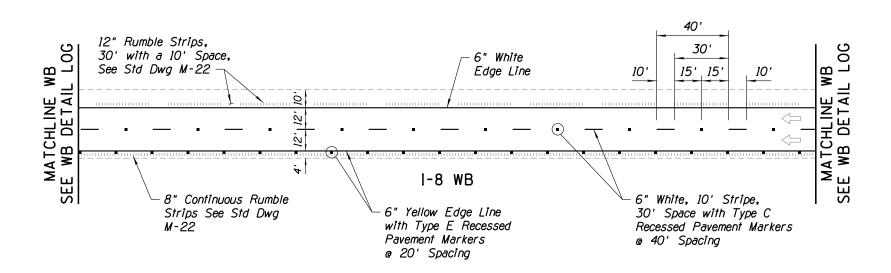


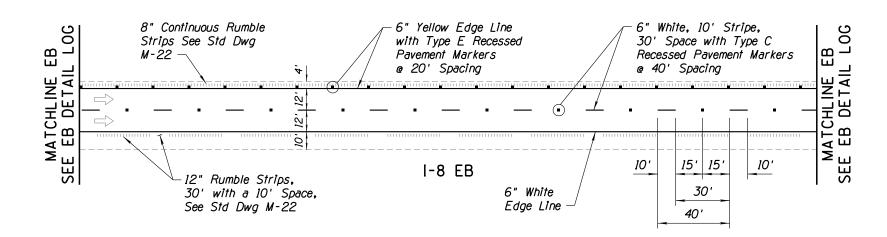










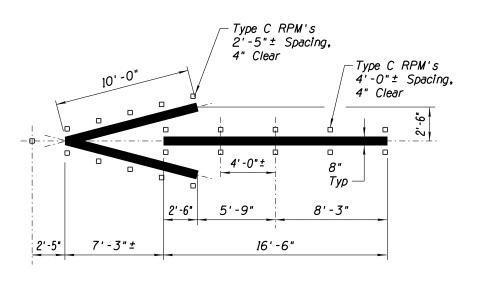


EB 1-8 PAVEMENT MARKING DETAIL LOG							
BEGINNING EB STATION	ENDING EB STATION	DETAIL	REMARKS				
3995+00±	4305+00±	Α	Install Pavement Markings as Shown in Detail A				
4364+00±	4544+33±	Α	Install Pavement Markings as Shown in Detail A				

WB 1-8 PAVEMENT MARKING DETAIL LOG								
BEGINNING WB STATION	ENDING WB STATION	DETAIL	REMARKS					
3994+29±	4305+00±	Α	Install Pavement Markings as Shown in Detail A					
4364+00±	4544+34±	Α	Install Pavement Markings as Shown in Detail A					

DETAIL A
I-8 TYPICAL
PAVEMENT MARKING

I.W.A.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING	
9	ARIZ.					



DETAIL B
WHITE WRONG-WAY ARROW

APPROXIMATE SPACING FOR DELINEATORS ON HORIZONTAL CURVE					
CURVE (PC STA)	S - VALUE (FT)				
4068+31.43 (EB)	300				
4299+00 . 75 (EB)	300				
4298+89.00 (WB)	300				

NOTES:

- 1. The "S" value from the table above is the suggested approximate spacing between delineators on the curve.
- 2. Before and after a curve, spacing shall be per note no. 4, Table 3F-1, MUTCD 2009.
- 3. Placement of delineators shall be per ADOT Std Dwg M-26.

	NAME	DATE	ARIZONA DEPAR	ARIZONA DEPARTMENT OF TRANSPORTATION				
DESIGN				ELIVERY AND OPERATIONS DIVISION				
DRAWN	LARRY LOPEZ	6/19	TRAFFIC					
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TEAM LEADER			DETA					
			DECINEAT	DELINEATOR SPACING TABLE				
LOCATION				2012				
I-8 - PAINTED ROCK ROAD						6	OF	6
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URBAN STATE ROUTE WITH MAJOR INTERSECTION PAVEMENT MARKING PLANS

GUIDELINES FOR TYPICAL, URBAN STATE ROUTE WITH MAJOR INTERSECTION, PAVEMENT MARKING PLANS

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.				

- The contents of these drawings shall be used as a guide for drafting ADOT Traffic Engineering plans and should not be used as a design aid.
- 2. These drawings are a labeling and dimensioning presentation.
- 3. These drawings are cut 40 scale (the border is a reference file attached 1:2.5). These cuts are perfect sheet to sheet and do not need Matchlines on the mainline road. Text size for 40 scale is; TX=0.4 x 17.5'=7' (see Note *18). For Title Text see Notes *11, *12 and 16.

The blowup details are proportionally scaled up for detailed dimensioning and labeling clarity.

The Border File has Data Fields for placement of Title Block Text. For Title Block Text that is sheet specific, the Data Fields need to be copied up into the Sheet File. Title Block Text that is not sheet specific can and should live in the Border File to avoid duplication of work.

- 4. For labeling text use Title Case. The first letter of each word is capitalized. Words that would not typically be capitalized within a label are words defined as definite articles ("the"), indefinite articles ("a" and "an"), and coordinating conjunctions ("and", "but", "if", "or", "for", "yet", "so", "non" and "nor").
- Label text do not include punctuation. See Signing & Marking and Signal & Lighting Standard Drawings for Standard Abbreviations.
- ALL existing items not part of the Bid Set and/or Contractor Construction Responsibility are to be screened (gray/level overrides).
 All graphic element items shall follow the ADOT LEVEL STRUCTURE.
- 7. EDGE OF ROAD, PAVEMENT PRESERVATION
 LIMITS AND NEWLY CONSTRUCTED ROADWAY
 ITEMS (non Traffic Items are shown as existing):
 LV = 16
 CO = LV
 WT = 0
 LC = 3
- 8. CURB AND GUTTER: LV = 23 CO = LV

WT = 0

LC=2
For all other Existing Items (bridges, guardrail, etc), see
ADOT LEVEL STRUCTURE for (existing) level placement/level
overrides. The line weight of any existing item can be adjusted
to the Designer's discretion as long as it is screened (gray).

9. LANE LINE AND EDGELINE STRIPING:
LV = 46
CO = 0 for white pavement markings
CO = 17 for yellow pavement markings
WT = 3 for 6" striping
WT = 6 for 12" striping
WT = 9 for 18" striping
WT = 12 for 24" striping
LC = (see custom linestyle names)
These pavement markings live in a Master Base File.
The blowup details live in the Sheet File.

- 10. CELL PLACEMENT:

 LV = Cell attributes are built-in but can be adjusted to the Designer's discretion.

 LV = 17 for existing traffic items/cells, (levels that screen/level overrides).

 WT = 0 for filled cells (CO = 17 for existing filled cells).

 The weight of any cell may be adjusted to the Designer's discretion.

 Pavement Arrows and "Only" legend pavement markings are cells that live in a Master Base File. The blowup details live in the Sheet File.

 These cells are brought into a Master Base File at AS = 1.

 The, North Arrow, cell is placed or copied into each Sheet File at the same drawing scale (AS = Sheet File Scale).
- 11. TITLE TEXT:

 LV = 47

 CO = LV

 WT = 6

 FT = 1

 TX = 8.8' (40 scale)

 LS = ½ text height

 Text Justification = Center Bottom (also Center Top if using description text below the underline).

 This text uses upper case and does not have descenders.
- 12. All Title Text (Detail Titles) that is not in a Table or labeling roadways/street names will have an underline. This underline has all the same element attributes as the Title Text with the LC=0.
- 13. NOTES (TEXT):
 LV = 47
 CO = LV
 WT = 3
 FT = 23 or 36 (font 36 has special characters for Signal & Lighting plans).
 TX = 17.5' (100 scale), 8.75' (50 scale), 7' (40 scale), 3.5' (20 scale)
 LS = 0.625 x (text height)
 Text Justification = Left Top (Because when editing, text will grow from top left and shrink from the bottom right).
 This text uses upper and lower case and has descenders.
- 14. LABEL TEXT:
 LV = 47
 CO = LV
 WT = 4
 FT = 23 or 36 (font 36 has special characters for Signal & Lighting plans).
 TX = 7' (see Note # 18)
 LS = 0.625 x (text height)
 Text Justification = Left Top (Because when editing, text will grow from top left and shrink from the bottom right.)
 This text uses Title Case and has descenders.
- 15. DIMENSION TEXT AND STATION CONTROL POINT TEXT:

 LV = 47

 CO = LV

 WT = 4

 FT = 23 or 36 (font 36 has special characters for Signal & Lighting plans).

 TX = 7' (see Note #18)

 LS = 0.625 x (text height) (space above and below the dimension line)

 Text Justification = Center Bottom (also Center Top if using description text below the dimension line)

 This text uses Title Case and has descenders because it sometimes includes a description.
- 16. CENTERLINE TITLE TEXT:
 (500' Stationing)
 LV = 21
 CO = LV
 WT = 1
 FT = 1
 TX = 8.8 (40 scale)
 Text Justification = Center Center
 This text uses upper case and does not have descenders.

- 17. CENTERLINE DATA TEXT:
 (Curve Data, Station Equation)
 LV = 2!
 CO = LV
 WT = !
 FT = 23
 TX = 7
 LS = 0.625 x (text height)
 Text Justification = Designer's discretion
- 18. All text can be squeezed to fit tight spaces and to the Designer's discretion as long as it is legible when printed hard copy and in all pdf formats (half size/full size).
- 19. CENTERLINE TICK MARKS:

 LV = 20

 CO = LV

 WT = 1

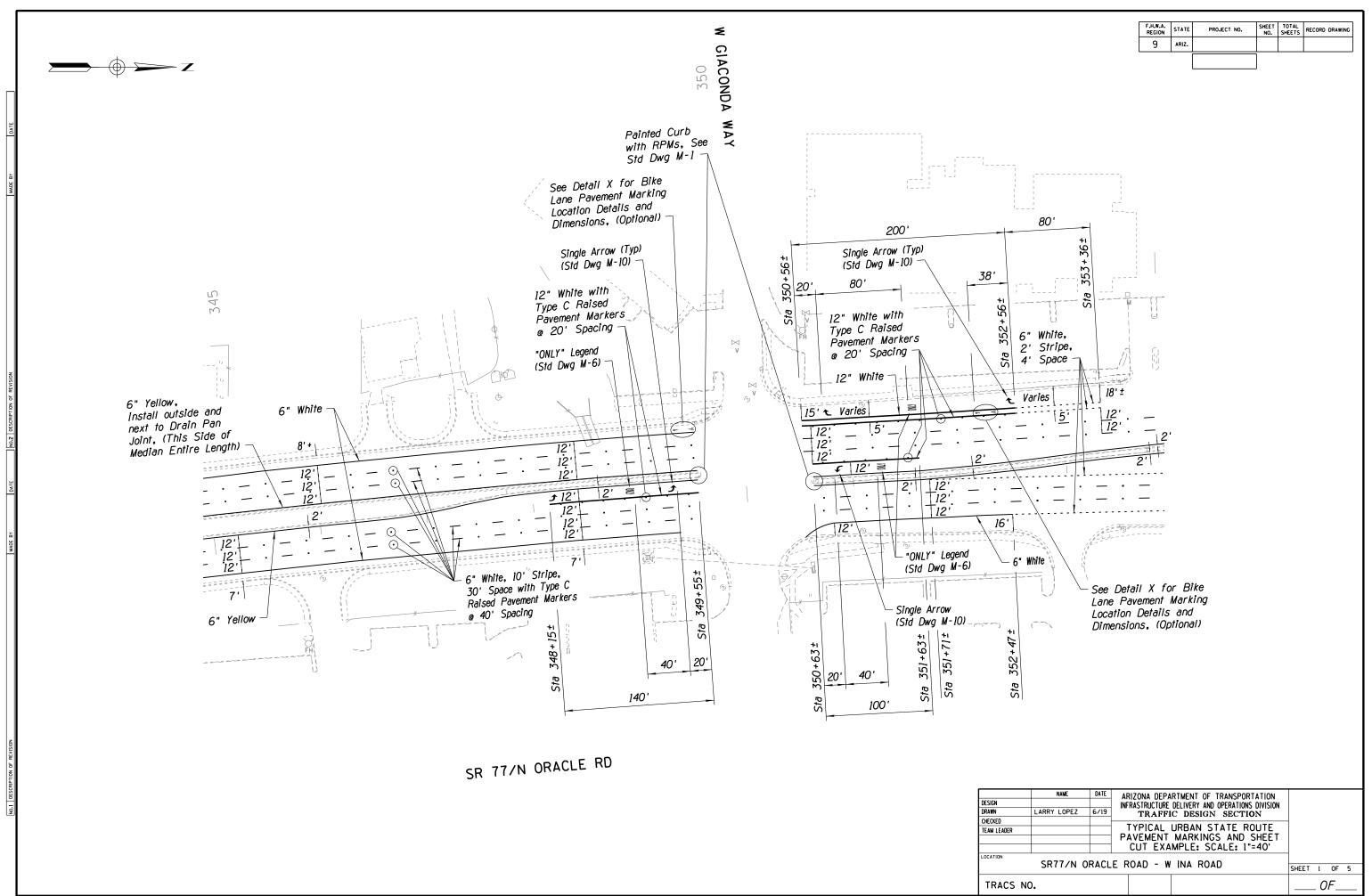
 LC = 0

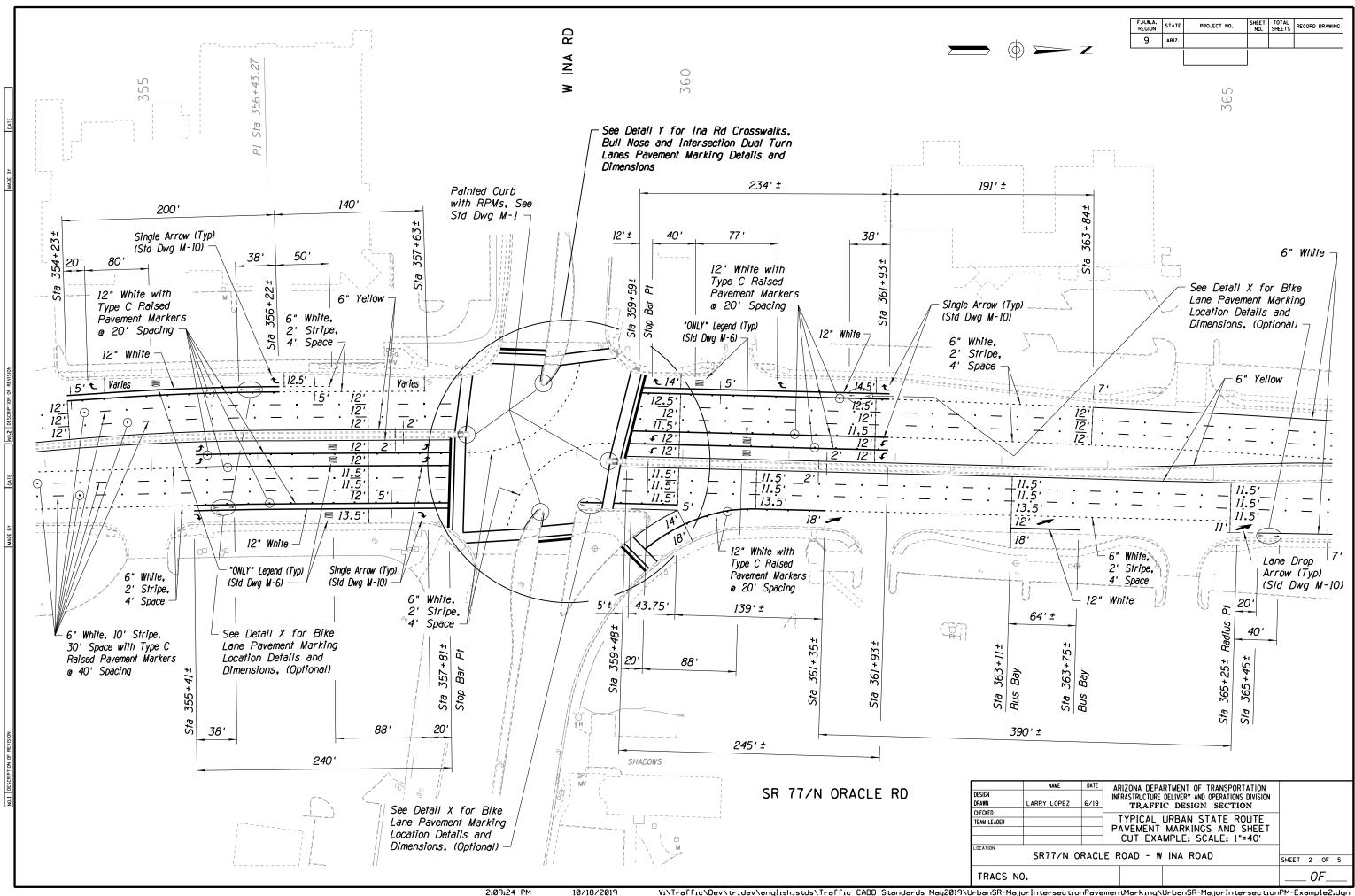
 These tick marks are to be displayed screened (gray).

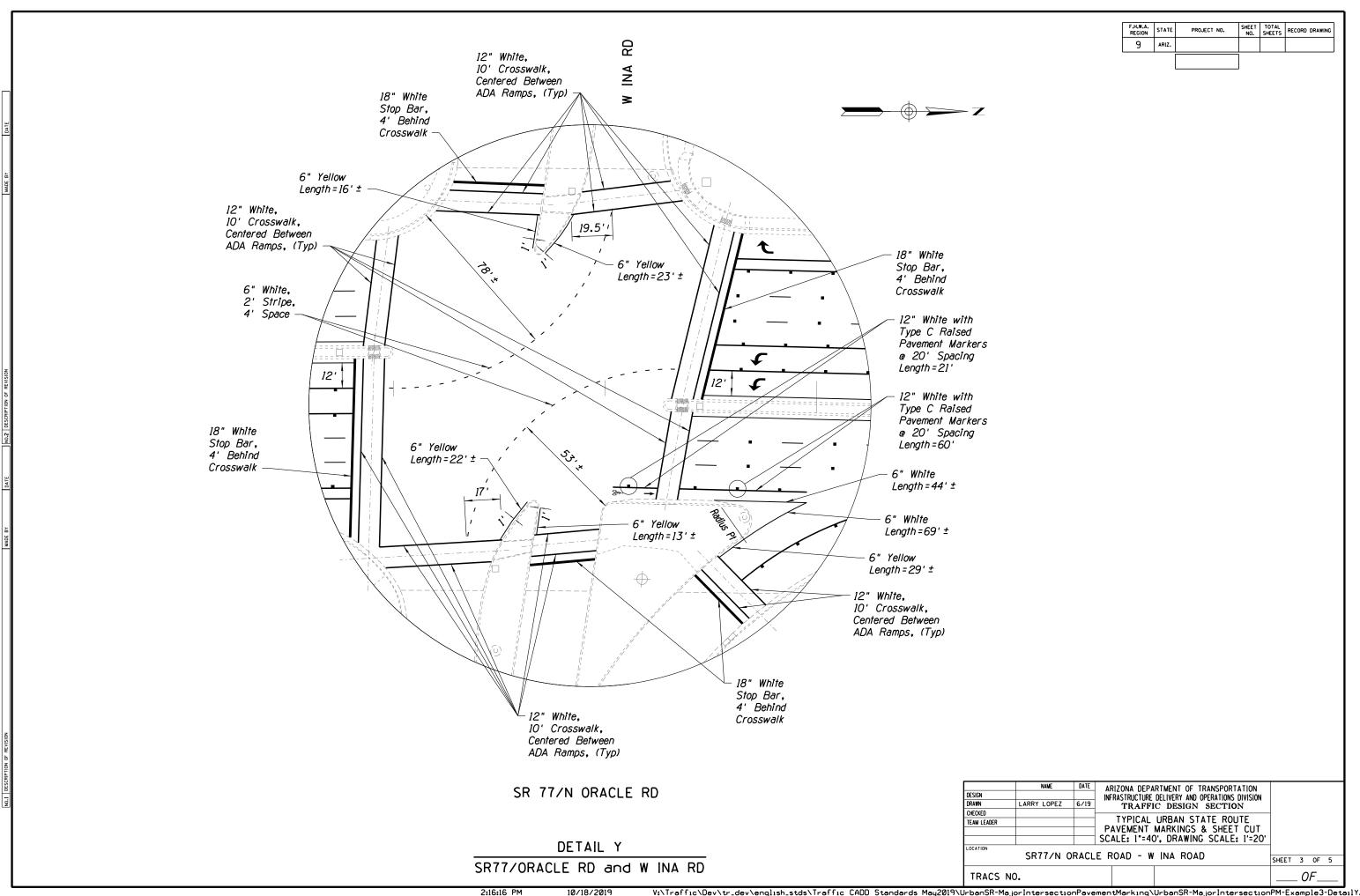
 Note; the centerline is never displayed so it won't conflict with striping.
- 20. LEADER LINE:
 LV = 47
 CO = LV
 WT = 1
 LC = Leader
 The leader line scale factor is 0.4 for 40 scale.
 Once you have created both and attached together, it is recommended to group together. Then you can copy and move to other label text.
 Using the modify command forces the arrowhead to follow the line angle modified because its a custom linestyle.
- LV = 47
 CO = LV
 WT = 1
 LC = DimLeader
 (DimLeader2 is for dimensioning a space smaller than the size of arrowheads so that the arrowheads point towards each other).
 The dimension line scale factor is 0.4 for 40 scale
 For dimensioning lane widths the scale factor is half (0.2) if used.
- 23. DIMENSION EXTENSION LINES: LV = 47 CO = LV WT = 1 LC = 0

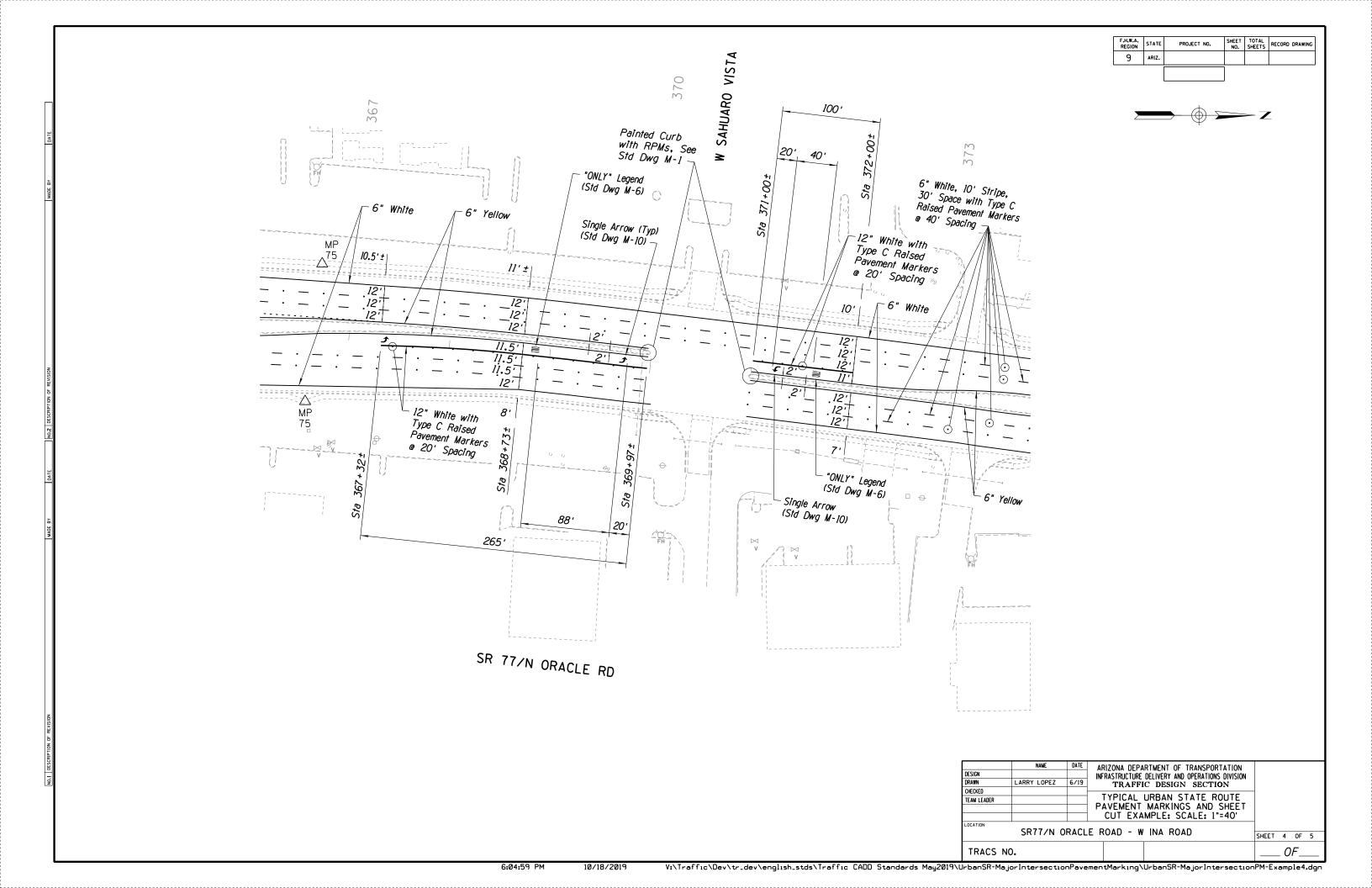
22. DIMENSION LINES:

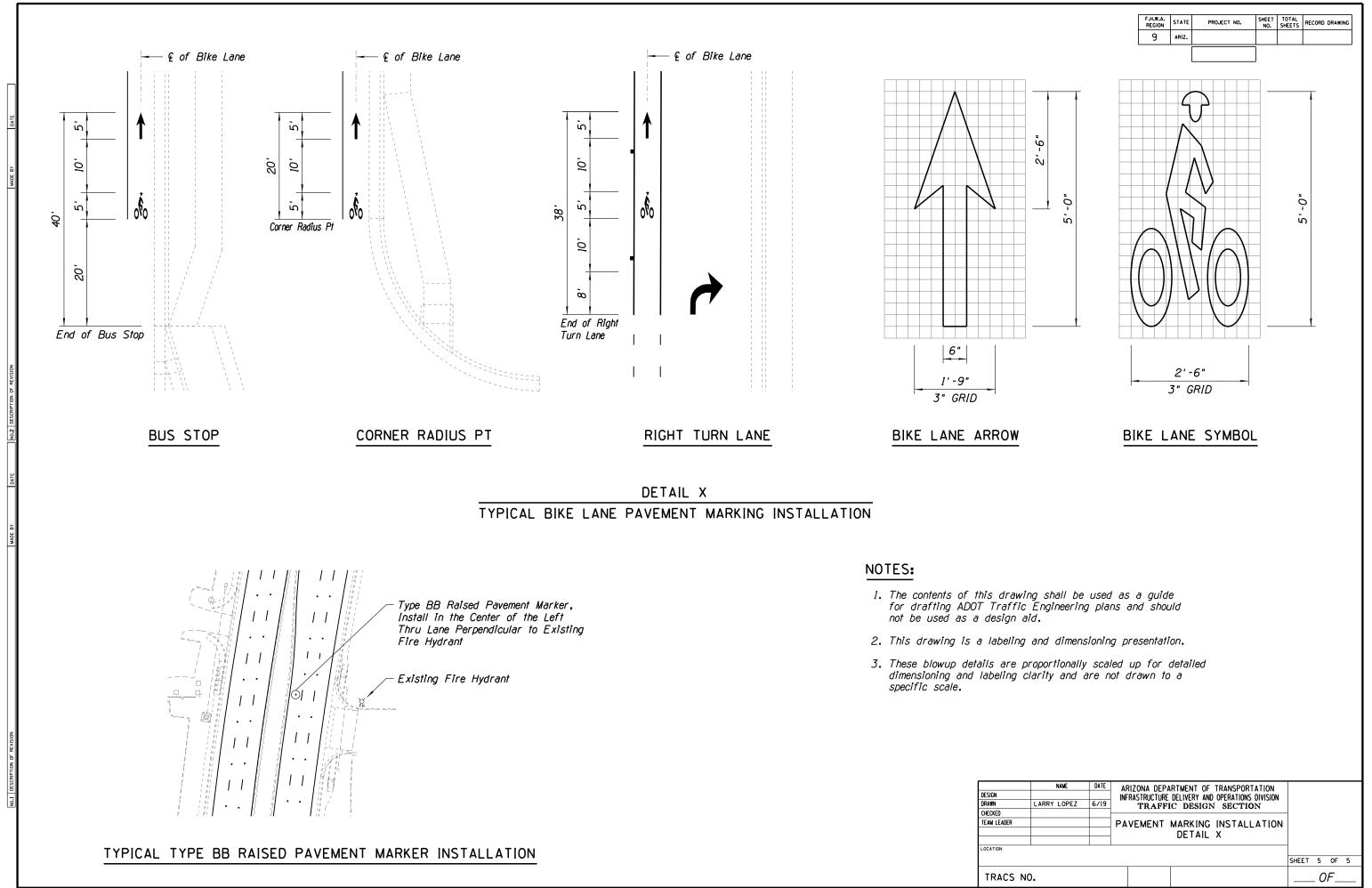
ESIGN Rawn	NAME LARRY LOPEZ	DATE 6/19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SECTION	
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EAM LEADER			TYPICAL URBAN STATE ROUTE	
			WITH MAJOR INTERSECTION	
			PAVEMENT MARKING SET UP NOTES	
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				SHEET 1 OF 1
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URBAN STATE ROUTE (HAWK) PAVEMENT MARKING PLANS

GUIDELINES FOR TYPICAL, URBAN STATE ROUTE (HAWK), PAVEMENT MARKING PLANS

- The contents of these drawings shall be used as a guide for drafting ADOT Traffic Engineering plans and should not be used as a design aid.
- 2. These drawings are a labeling and dimensioning presentation.
- 3. These drawings are cut 40 scale (the border is a reference file attached 1:2.5). These cuts are perfect sheet to sheet and do not need Matchlines on the mainline road. Text size for 40 scale is; TX=0.4 x 17.5'=7' (see Note *18). For Title Text see Notes *11, *12 and 16.

The blowup details are proportionally scaled up for detailed dimensioning and labeling clarity.

The Border File has Data Fields for placement of Title Block Text. For Title Block Text that is sheet specific, the Data Fields need to be copied up into the Sheet File. Title Block Text that is not sheet specific can and should live in the Border File to avoid duplication of work.

- 4. For labeling text use Title Case. The first letter of each word is capitalized. Words that would not typically be capitalized within a label are words defined as definite articles ("the"), indefinite articles ("a" and "an"), and coordinating conjunctions ("and", "but", "if", "or", "for", "yet", "so", "non" and "nor").
- Label text do not include punctuation. See Signing & Marking and Signal & Lighting Standard Drawings for Standard Abbreviations.
- ALL existing items not part of the Bid Set and/or Contractor Construction Responsibility are to be screened (gray/level overrides).
 All graphic element items shall follow the ADOT LEVEL STRUCTURE.
- 7. EDGE OF ROAD, PAVEMENT PRESERVATION
 LIMITS AND NEWLY CONSTRUCTED ROADWAY
 ITEMS (non Traffic Items are shown as existing):
 LV = 16
 CO = LV
 WT = 0
 LC = 3
- 8. CURB AND GUTTER: LV = 23

CO=LV WT=O LC=2

For all other Existing Items (bridges, guardrail, etc), see ADOT LEVEL STRUCTURE for (existing) level placement/level overrides. The line weight of any existing item can be adjusted to the Designer's discretion as long as it is screened (gray).

9. LANE LINE AND EDGELINE STRIPING:
LV = 46
CO = 0 for white pavement markings
CO = 17 for yellow pavement markings
WT = 3 for 6" striping
WT = 6 for 12" striping
WT = 9 for 18" striping
WT = 12 for 24" striping
LC = (see custom linestyle names)
These pavement markings live in a Master Base File.
The blowup details live in the Sheet File.

10. CELL PLACEMENT: LV = Cell attributes are built-in but can be adjusted to the Designer's discretion. LV = 17 for existing traffic items/cells, (levels that screen/level overrides). WT = 0 for filled cells (CO = 17 for existing filled cells).

WI = 0 for filled cells (CO=1/ for existing filled cells).

The weight of any cell may be adjusted to the Designer's discretion.

Pavement Arrows and "Only" legend pavement markings are cells that live in a Master Base File. The blowup details live in the Sheet File.

These cells are brought into a Master Base File at AS=1.

The, North Arrow, cell is placed or copied into each Sheet File

at the same drawing scale (AS = Sheet File Scale).

11. TITLE TEXT:

LV = 47

CO = LV

WT = 6

FT = 1

TX = 8.8' (40 scale)

LS = ½ text height

Text Justification = Center Bottom (also Center Top if using description text below the underline).

This text uses upper case and does not have descenders.

- 12. All Title Text (Detail Titles) that is not in a Table or labeling roadways/street names will have an underline. This underline has all the same element attributes as the Title Text with the LC=0.
- 13. NOTES (TEXT):
 LV = 47
 CO = LV
 WT = 3
 FT = 23 or 36 (font 36 has special characters for Signal & Lighting plans).
 TX = 17.5' (100 scale), 8.75' (50 scale), 7' (40 scale), 3.5' (20 scale)
 LS = 0.625 x (text height)
 Text Justification = Left Top (Because when editing, text will grow from top left and shrink from the bottom right).
 This text uses upper and lower case and has descenders.
- 14. LABEL TEXT:
 LV = 47
 CO = LV
 WT = 4
 FT = 23 or 36 (font 36 has special characters for Signal & Lighting plans).
 TX = 7' (see Note #18)
 LS = 0.625 x (text height)
 Text Justification = Left Top (Because when editing, text will grow from top left and shrink from the bottom right).
 This text uses Title Case and has descenders.
- 15. DIMENSION TEXT AND STATION CONTROL POINT TEXT:

 LV = 47

 CO = LV

 WT = 4

 FT = 23 or 36 (font 36 has special characters for Signal & Lighting plans).

 TX = 7' (see Note #18)

 LS = 0.625 x (text height) (space above and below the dimension line)

 Text Justification = Center Bottom (also Center Top if using description text below the dimension line)

 This text uses Title Case and has descenders because it sometimes includes a description.
- 16. CENTERLINE TITLE TEXT:
 (500' Stationing)
 LV = 21
 CO = LV
 WT = 1
 FT = 1
 TX = 8.8 (40 scale)
 Text Justification = Center Center
 This text uses upper case and does not have descenders.

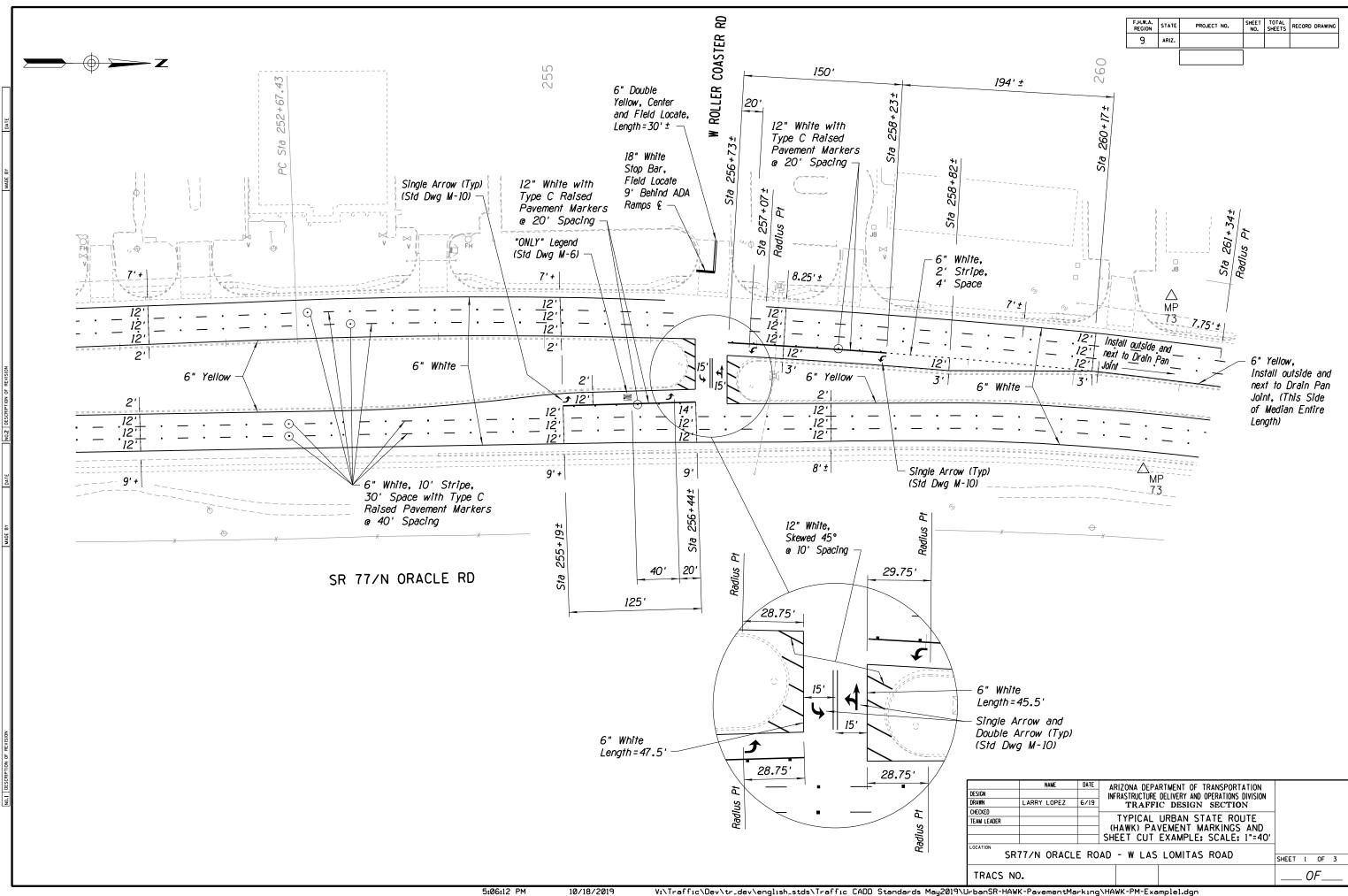
17. CENTERLINE DATA TEXT:
(Curve Data, Station Equation)
LV = 21
CO = LV
WT = 1
FT = 23
TX = 7
LS = 0.625 x (text height)
Text Justification = Designer's discretion

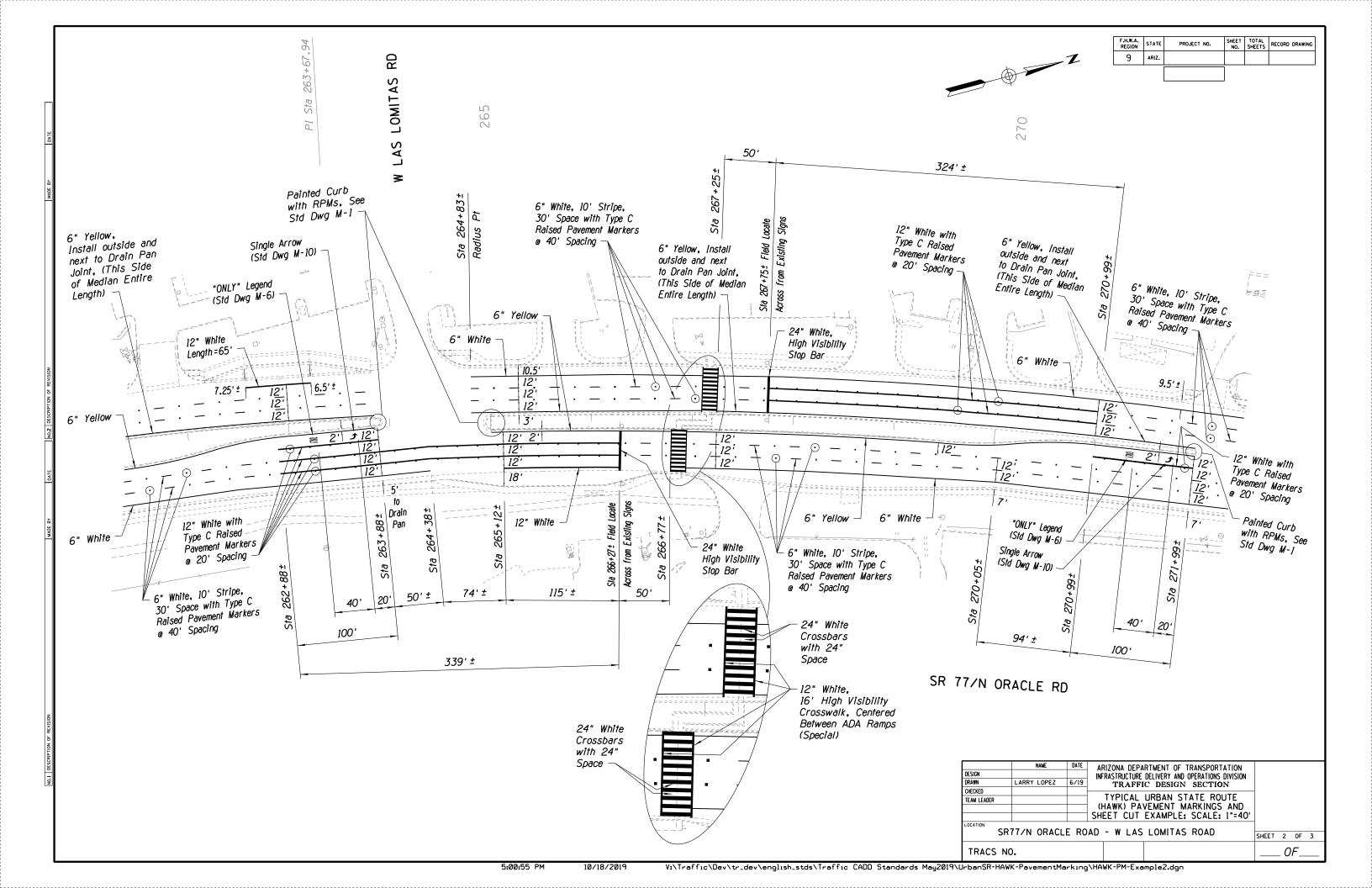
19. CENTERLINE TICK MARKS:

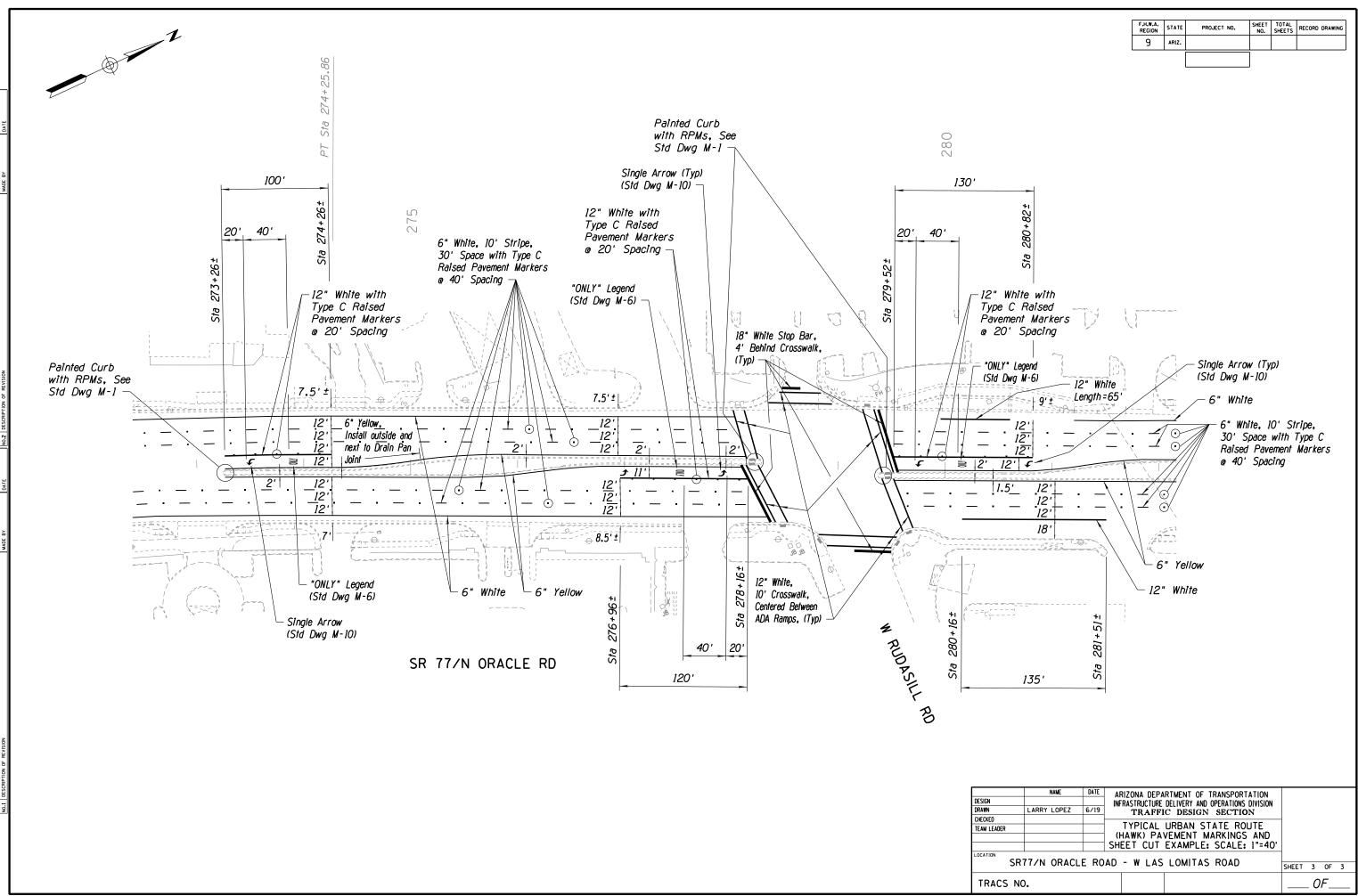
- 18. All text can be squeezed to fit tight spaces and to the Designer's discretion as long as it is legible when printed hard copy and in all pdf formats (half size/full size).
- LV = 20
 CO = LV
 WT = 1
 LC = 0
 These tick marks are to be displayed screened (gray).
 Note; the centerline is never displayed so it won't conflict with striping.
- 20. LEADER LINE:
 LV = 47
 CO = LV
 WT = 1
 LC = Leader
 The leader line scale factor is 0.4 for 40 scale.
 Once you have created both and attached together, it is recommended to group together. Then you can copy and move to other label text.
 Using the modify command forces the arrowhead to follow the line angle modified because its a custom linestyle.
- LV = 47
 CO = LV
 WT = 1
 LC = DimLeader
 (DimLeader2 is for dimensioning a space smaller than the size of arrowheads so that the arrowheads point towards each other).
 The dimension line scale factor is 0.4 for 40 scale
 For dimensioning lane widths the scale factor is half (0.2) if used.
- 23. DIMENSION EXTENSION LINES: LV = 47 CO = LV WT = 1 LC = 0

22. DIMENSION LINES:

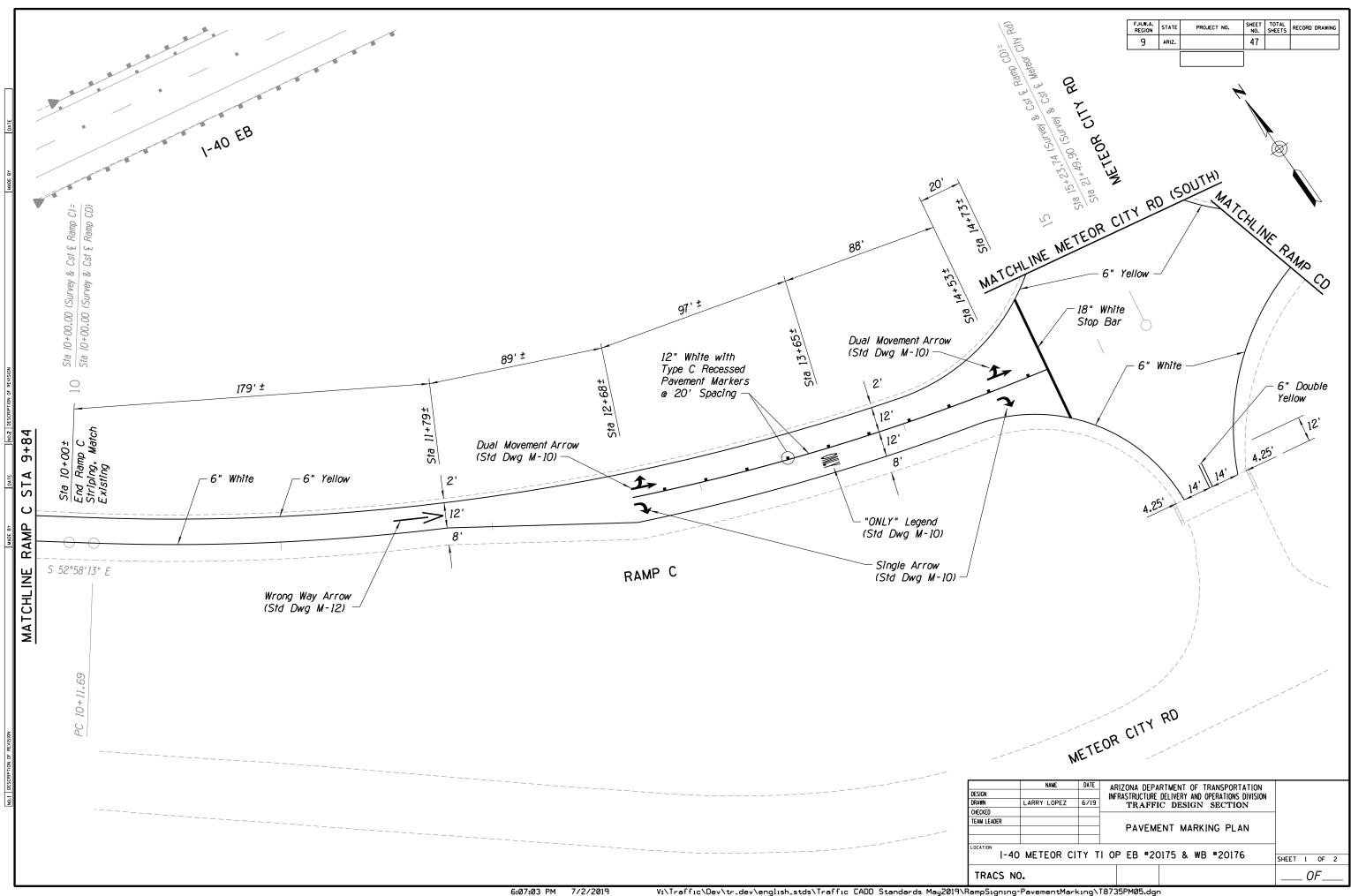
ESIGN RAWN	NAME LARRY LOPEZ	DATE 6/19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SECTION						
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EAM LEADER			GUIDELINES FOR TYPICAL						
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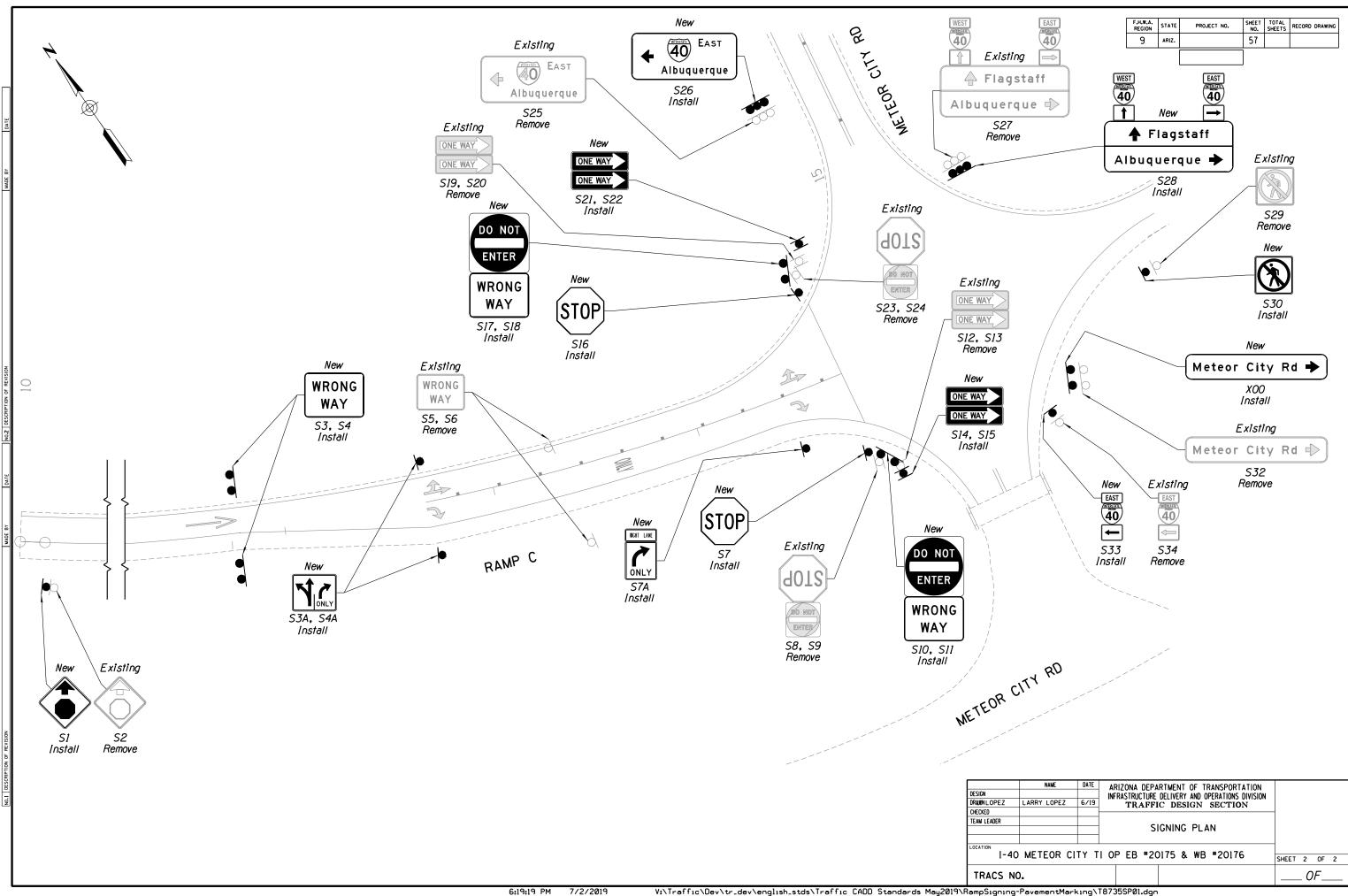


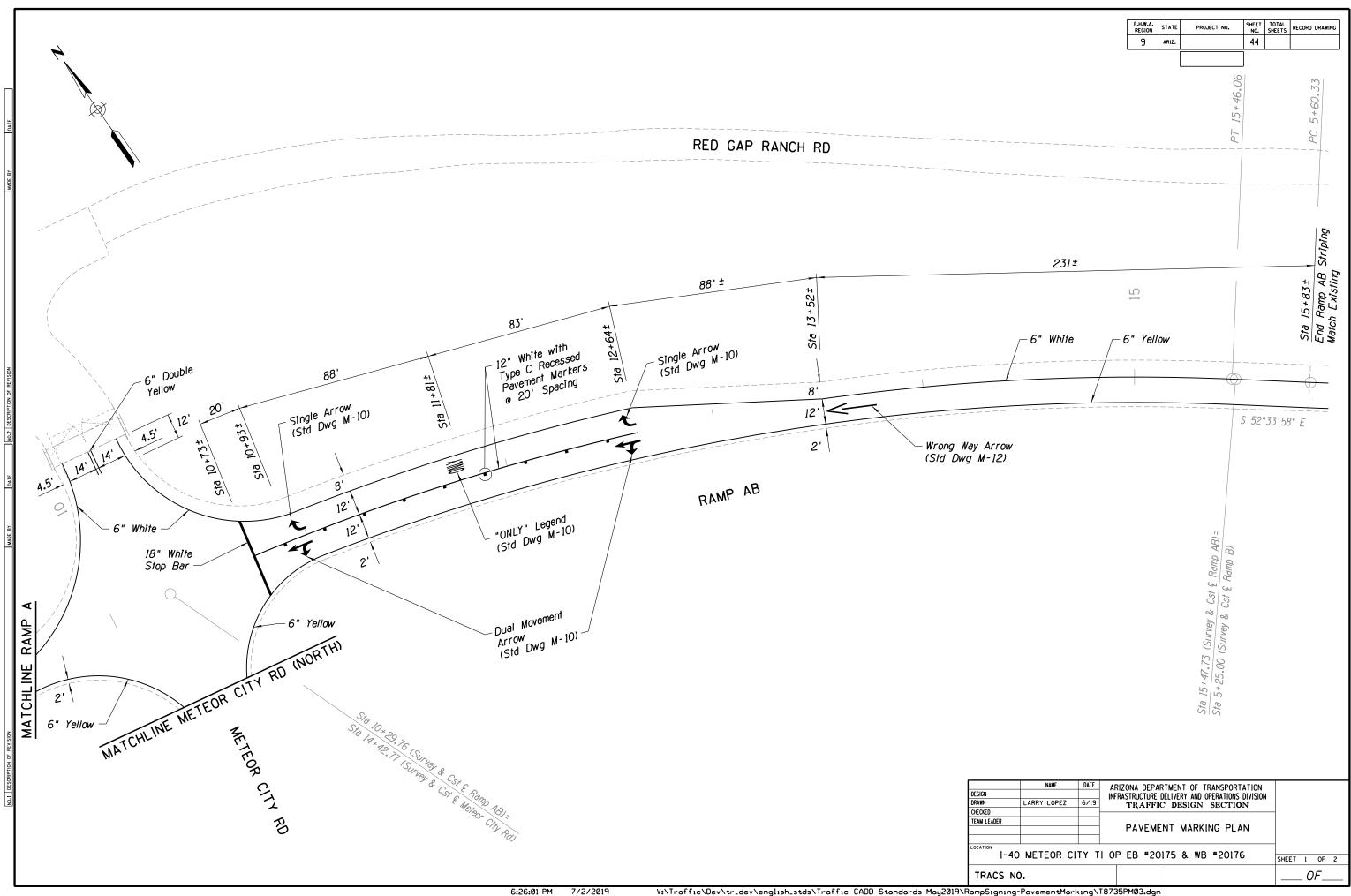


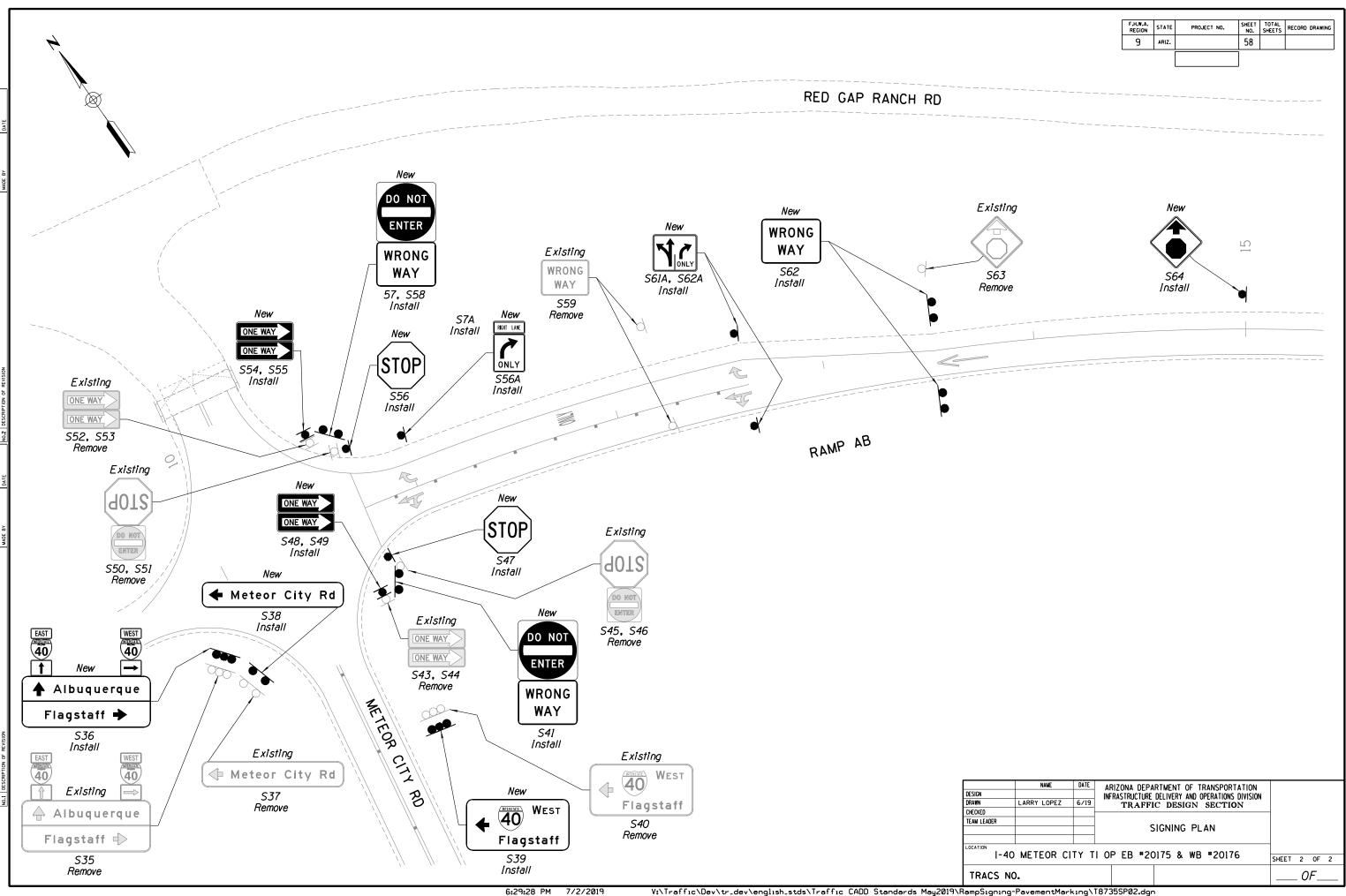


RAMP PAVEMENT MARKING AND SIGNING









APPENDIX 1 TRAFFIC DESIGN DRAFTING GUIDE EXAMPLE SHEETS

ROUNDABOUT TRAFFIC CONTROL, PAVEMENT MARKINGS, SIGNING AND LIGHTING

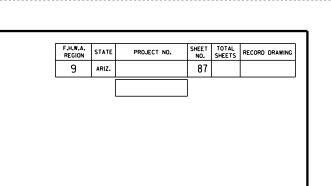
TRAFFIC CONTROL NOTES:

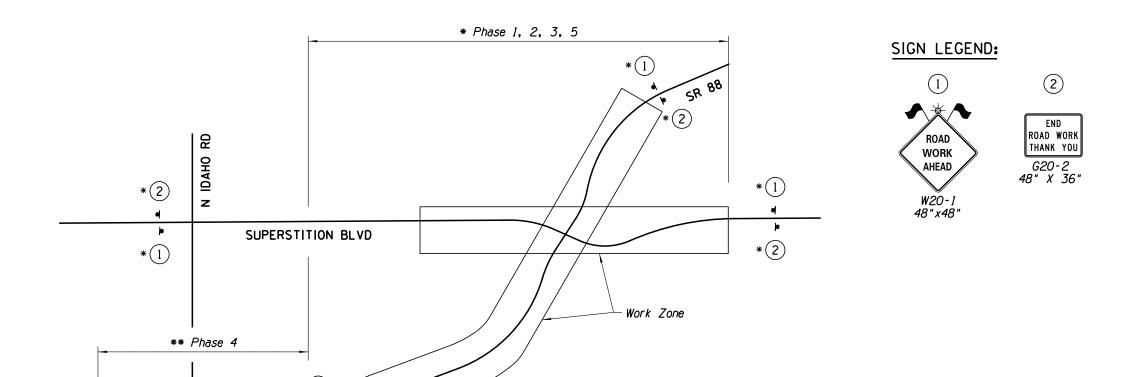
- 1. The traffic control plans represent a suggested method for traffic control during construction. The contractor may prepare another traffic control plan in accordance with Section 701 of the Standard Specifications. All traffic control plans are subject to the approval of the Engineer before beginning construction.
- 2. Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities, as directed by the Engineer.
- 3. All existing signs in conflict with the construction signs shall be removed, relocated, or covered in place, as directed by the Engineer, at the contractor's expense. The contractor shall store and reinstall items which have been removed or relocated in a manner approved by the Engineer.
- All construction signs shall have black letters on an orange background, except as otherwise indicated.
- 5. The retroreflective sheeting on all orange signs and delineation for impact attenuators shall meet the criteria established for Type VIII, IX, or XI sheeting in accordance with ASTM D4956, except all black-on-white signs, barricades, vertical panels, and other work zone traffic control devices may have Type IV sheeting. All orange signs shall have fluorescent sheeting.
- 6. All signs shown on the plans shall be mounted on embedded posts, except as otherwise indicated. For signs installed on embedded posts, sign mounting height is a minimum of 7 feet as measured from the bottom of the sign to the near edge of the pavement. All other short-term signs may be installed on portable stands at least 5 feet above the pavement.
- 7. The nearest edge or corner of a sign shall be approximately 12 feet from the nearest edge of pavement or 6 feet behind guardrail for all signs mounted on embedded posts.
- 8. Flags shall be mounted on top of all construction signs. Type A flashing warning lights shall be required on all nighttime construction signs, except "END ROAD WORK THANK YOU" signs.
- 9. During nighttime the contractor shall utilize only Type I or Type II barricades for channelizing devices, except the Engineer may allow the contractor to substitute vertical panels on tangents.
- 10. Type | or Type || barricades shall be placed 40 feet o.c. in tapers and 80 feet o.c. on tangents, except as otherwise indicated.
- 11. A Type C steady-burning yellow light shall be mounted on every Type I or Type II barricade or vertical panel used for channelization during nighttime activities.
- 12. The contractor shall clean the roadway surface to the satisfaction of the Engineer, by sweeping and air-jet blowing, immediately prior to the placement of all temporary pavement markings. The roadway surface shall be dry.
- 13. Construction signs shall not be displayed to traffic more than 24 hours prior to the actual start of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after the completion of the construction activities.
- 14. Signing for double fines in work zones, when approved by Engineer, shall generally conform to Figure SA-12 of the ADOT Traffic Control Guidelines. Such signing shall only be in place during working periods when workers are present in accordance with the guidelines for signing for double fines in work zones.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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- 15. Lane closures shall generally conform to Figure SA-5(L) and SA-5(R) of the 2010 ADOT Traffic Control Design Guidelines.
- 16. Off-duty uniformed police officers and their vehicles shall be included as part of the contractor's traffic control as approved by the Engineer.
- 17. Where no closure is necessary but where there is construction alongside a roadway under construction, the contractor shall place 48 inch x 48 inch "ROAD WORK AHEAD" and "SHOULDER WORK AHEAD" signing as directed by the Engineer to alert the public to the construction activities.
- 18. While traffic control items are not in use, the contractor shall remove these items to a location at least 30 feet from the edge of the paved roadway. This includes all supports without sign panels. Any signs which are not in use but which cannot be moved at least 30 feet from the roadway shall be covered so the public cannot read the legends.
- 19. For each changeable message sign used on the project but not located in a protected location, the contractor shall position ten Type I or Type II barricades, with an affixed Type A flashing warning light for nighttime use but not vertical panels, around the changeable message sign.
- 20. The contractor shall position changeable message signs in advance of each road closure or as directed by the Engineer.
- 21. Cycle time and duration of the message on the changeable message sign shall be such that the entire message can be read twice at the operating speed from no farther than 650 feet.
- 22. A Type A flashing warning light shall be positioned on each end of each Type III barricade. The contractor shall position Type III barricades across the detour roadway at both east and west connections to SR 88 while traffic is traveling on SR 88 and the detour looks like another roadway.
- 23. All drawings are schematic only and not to scale.

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**(2)

ADVANCE SIGNING

Work Zone

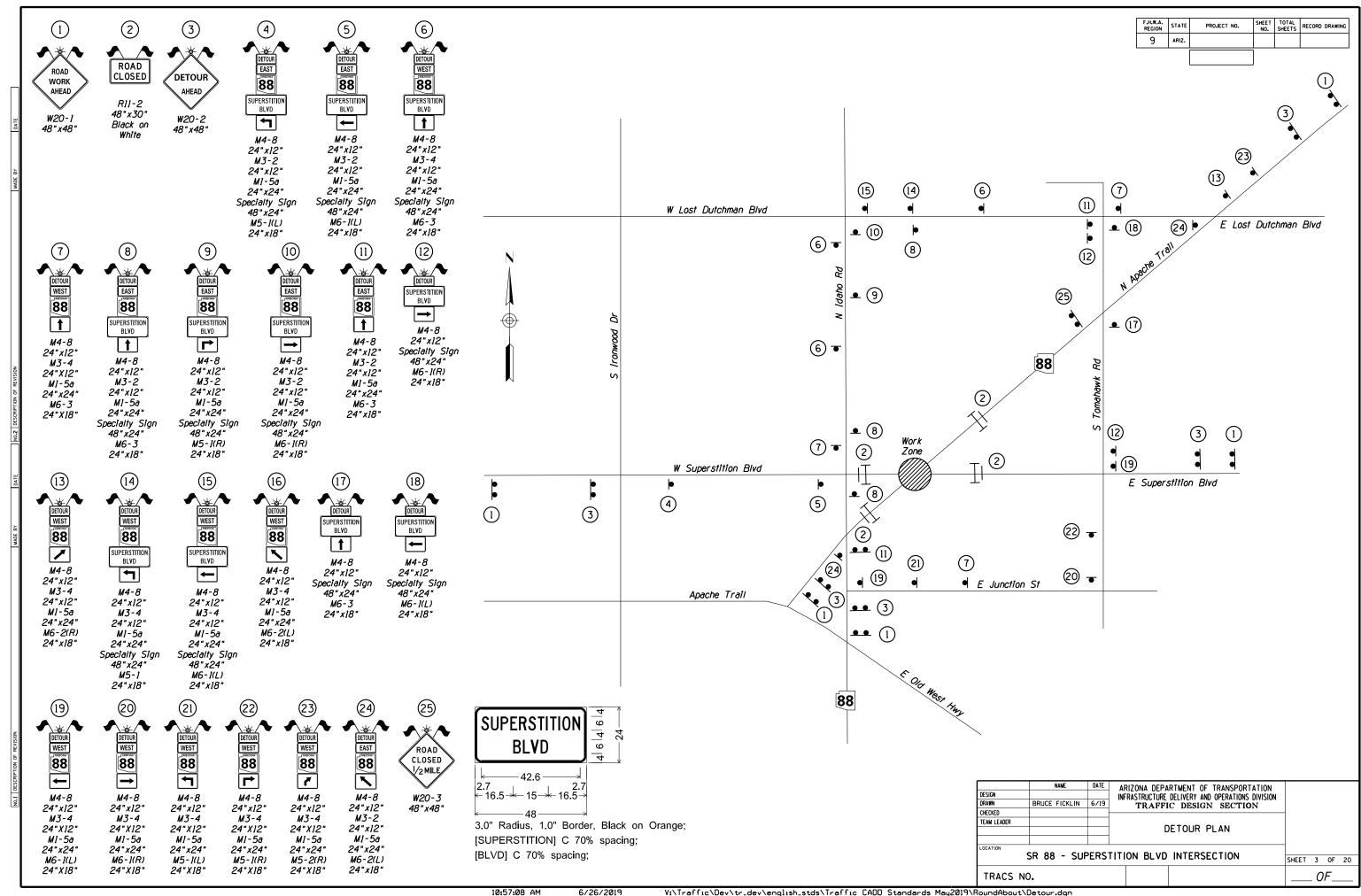
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	APPROXIMATE TRAFF	IC CONT	ROL QU	ANTITIE	S			
ITEM NO	ITEM	UNIT	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	TOTAL
	ESTIMATED DURATION	Days*	250	150	30	35	35	
7015052	Obliterate Pavement Marking (Stripe)	LF	0	0	0	0	263	263
7015091	Speciality Signs	Sq-Ft	0	0	88	0	0	88
7016030	Barricade (Type II, Vertical Panel, Tubular Marker)	Each-Day	5,000	7,500	1,740	4,349	406	18,995
7016031	Barricade (Type III, High Level Flag Trees)	Each-Day	0	0	720	464	14	1,198
7016032	Portable Sign Stands (Rigid)	Each-Day	0	300	0	544	28	872
7016033	Portable Sign Stands (Spring Type)	Each-Day	0	4,200	0	32	84	4,316
7016035	Warning Lights (Type A)	Each-Day	8,000	0	3 , 270	902	0	12,172
7016037	Warning Lights (Type C)	Each-Day	5,000	7,500	1,740	4,349	406	18,995
7016039	Embedded Sign Post	Each-Day	16,000	0	1,140	280	0	17,420
7016050	Truck Mounted Attenuator	Each-Day	4	4	4	0	7	19
7016051	Temporary Sign Less Than 10 Sq-Ft	Each-Day	2,000	1,500	2,880	32	84	6,496
7016052	Temporary Sign 10 Sq-Ft or More	Each-Day	6,000	3,000	390	708	28	10,126
7016061	Flashing Arrow Panel	Each-Day	0	0	120	108	14	242
7016067	Changeable Message Board (Contractor Furnished)	Each-Day	500	0	30	98	0	628
7016075	Flagging Service (Civilian)	Hours	0	0	0	0	70	70
7016078	Flagging Service (Local Enforcement Officer)	Hours	0	100	30	0	20	150
7016080	Flagging Services (DPS)	Hours	0	100	30	0	20	150

NOTE:

* = Calendar days

	NAME	DATE	ARIZONA DEP	ARTMENT OF TE	RANSPORTATION				
DESIGN					PERATIONS DIVISION				
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SIGNING NOTES:

- All signs shall be in compliance with the Manual on Uniform Traffic Control Devices (MUTCD), the ADOT Signing and Marking Standard Drawings, and the Traffic Engineering Manual of Approved Signs.
- 2. The sign locations and the post lengths are approximate. The contractor shall verify the sign locations and actual post lengths with the Engineer prior to installing signs.
- 3. The bottom of each sign installed on a new post shall be at least 7 feet above the nearest edge of pavement and at least 7 feet above the ground under the sign.
- 4. For signs installed on new posts, the contractor shall install the new signs so the nearest edge or corner of each sign is offset 12 feet from the nearest edge of the pavement, except as otherwise indicated.
- 5. All signs shall be fabricated of flat sheet aluminum or extruded aluminum as indicated in Section 608.
- 6. The retroreflective sheeting on all new signs shall meet the criteria established for Type IX or XI sheeting in accordance with ASTM D4956. All new yellow and yellow-green signs shall have fluorescent sheeting.
- 7. All new ground-mounted signs shall be installed on new square tube posts with foundations in accordance with Std Dwg S-3 with two nuts per bolt or on new breakaway posts in accordance with Std Dwg S-2, S-4, S-5 and S-6.
- 8. Where indicated in the sign summary, new slip bases shall be installed in accordance with Std Dwg S-3.
- 9. Where indicated in the sign summary, the contractor shall install horizontal stringers in accordance with Std Dwg S-3.
- 10. All bolts used to install signing shall have hex heads, not slotted heads, and shall not be painted.
- 11. The contractor shall use only zinc plated steel washers, not nylon washers, between each bolt head and the face of the sign panel. The washers shall not be painted.
- 12. Shop drawings will be required.
- 13. The Engineer may modify the signing plans.

F.H.W REGI	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING	
9	ARIZ.					
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	SIGNING QUANTITIES		
ITEM NO	ITEM	UNIT	TOTAL
2020047	Removal of Signs	Each	26
6070002	Breakaway Sign Post S4x7.7	LF	30
6070004	Breakaway Sign Post W6x12	LF	156
6070022	Foundation for Breakaway Sign Post S4x7.7	Each	2
6070024	Foundation for Breakaway Sign Post W6x12	Each	10
6070038	Slip Base (New)	Each	48
6070055	Sign Post (Perforated) (21/2S)	LF	167
6070057	Sign Post (Perforated) $(2\frac{1}{2}T)$	LF	502
6070060	Foundation for Sign Post (Concrete)	Each	56
6080005	Warning, Marker or Regulatory Sign Panel	Sq-Ft	478
6080018	Extruded Aluminum Sign Panel	Sq-Ft	398
6080025	Flat Sheet Aluminum Sign Panel	Sq-Ft	77
6080110	Remove and Reinstall Sign	Each	1

	NAME	DATE	ARIZONA DEPA	RTMENT OF TRANSPOR	RTATION	-			
SIGN				DELIVERY AND OPERATION					
RAWN	LARRY LOPEZ	6/19		C DESIGN SECTI					
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	SK 88 - SUF	EK2	IIIION BLVD	INTERSECTION		SHEET	4	OF	20
TRACS NO) .						0	F	

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				New Poorland Danel	Panel	ופו		1_	eig	ا ٽ		-	 		id Item Numbe	2	(£†)	аse	(£‡)	0verhead		
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Plan				و ا	اع ار	ال"،	ڇٰاږ	<u> </u>	ļ.Ľ	5			S)		tem	3	eug	Slipb	euč	를 있 등		
Sht	Sigr	n	Sign	> 6		<u>.</u> 의	इंहि	Se Se	🛓	×	\frac{1}{2}	<u>P</u>	e a	уре	± <u>ĕ</u>	į e	ا	ו ומי	al L	Type Type		
No.	Numb	er	Code			일		Offset	Mounting	Backgr	Legend Legend	Height	Ar	\(\frac{1}{2} \)	Bid	T y De	Total length	Ne v	Total Length	Structure Type #of Lights	Remarks	
	EB Sta. :	99+13	R2-1 (35)	$\frac{ z ^2}{ x }$	- -	╒╬	누	- 	7	WH	SPEED LIMIT 35 30			RWM	6080005	'	+		+		Pole Mounted on Existing Sign Stru	ıcture
		33 13	712 7 1337	+^+	+ 1	十			+ '	+	STEED EIMIT 33	+ 30	+ **		0000003						Total made on Existing Sign Sites	30,0,0
T-04.03 E	B Sta. 1	100 + 75	W4-2R		+	一,	x				Lane Ends				2020047							
-04.03 E	B Sta. I	101 + 75	R5-111	X				12	7.5	5 WH	No Truck Symbol 84	72	42.0	EXT	6080018 2	? S4X7.7	30					
											OVER 40 FEET											
						ı					23 MILES AHEAD											
	+		R12-1	x		,				WH	WEIGHT LIMIT 10 TONS 24	30	5.0	RWM	6080005						Mounted on Left Post Below Main Panel	el at 5 Feet
						i																
√-04.03 E	B Sta. 1	102+24	R2-1 (40)		\dagger	, ,	$x \mid$		1		SPEED LIMIT 40				2020047							
$\overline{}$						\Box																
-04.03 E	B Sta. 1	102+58	R12-1		\top	, ,	x				WEIGHT LIMIT 10 TONS				2020047							
	+		R5-111			رار	x				No Truck Symbol											
											OVER 40 FEET											
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+						+																
Γ-04.03 F	B Sta. 1	104+25	Special		x	一		12	7	WH	HIGHWAY SR 88 Shield / CLOSED				6080110 2	2 1/2T	26	2			Relocated Panel (Folded Sign) from EB	Sta. 104+74
					+ 1	一十		+	+ '	+	BEYOND TORTILLA FLAT				55555 -							
-+						<u>,</u> —					BETOND TOTTLEST FETT											
Γ-04 ₋ 03 F	B Sta. 1	106 + 75	W2-6	$\frac{1}{x}$		+		6	7	YL	Roundabout 36	36	9.0	RWM	6080005 1	2 1/2T	15	1				
- 1100	+		W13-1P (20)	$\frac{1}{x}$;+		+-	+ '	YL	20 MPH 24				6080005		1.0					
$\overline{}$			W15 17 (E0)	+^+	+ +	+				+ ' <u>-</u>	20 mm	+	1.0	1111111	0000003	+						
Γ-04.03 F	B Sta. 1	109+07	R4-7	<u> </u>		,——			7	WH	Keep Right Symbol 24	30	5.0	RWM	6080005 1	2 1/25	12					
- 1100				+		; — —			+ -	+	Noop riigiii Symbol	+ -	+ 3.0	1,11,11	0000000 1	1 20						
Γ-04.03 E	B Sta. 1	109+25	GUIDE	x		十		12	7	GR	SR 88 Shield East 192	84	112.0) EXT	6080018 3	W6X12	48					
				+		一		+	+ -	1	West Superstition Blvd / Roundabout /	+					+ •					
						, —					East Superstition Blvd											
						; — —					Eddi Saparaman Bira											
Γ-04.03 F	B Sta. 1	109+63	W2-1			一	\mathbf{x}				Cross Road				2020047							
- 1100			W16-8P			+	<u>x</u>				Superstition Blvd				2020011							
-+						<u>, H</u>	+				Super of more bird											
Γ-04.04	EB Sta.	111+14	R3-8KQ	x		+			7	WH	Left-Straight Arrow Symbol / 36	30	7.5	RWM	6080005						Mount on Light Pole	
		***	no ona	+^+					+ '	+	Straight-Right Arrow Symbol	+ 30	+ ***	1111111	0000003							
$\overline{}$					+ +	+					Straight Hight Artow Symbol					+						
Γ-04.04 F	B Sta. 1	11.3 + 30	OM3-L			一,	x				Object Marker				2020047							
	.5 5.0. 1			++	+	/ 	+		+		Object market	+			2020041			\vdash				
T-04.04 F	B Sta. 1	113+38	W11-2	 	+	+	+	6	7	YL/GI	Pedestrian Symbol 36	36	9.0	RWM	6080005 1	2 1/2T	12	1				
	. <u>D 5/0. 1</u> +		W16-7P	$\frac{ \hat{x} }{ x }$	+	+	+	+	+	YL/GI	·		_	_	6080005	- 1, 2,	1	+				
-+	-	+		+^+	+	+	+		+	1.27.07	Stagonal Bonn Earl Arton 30	+ '	1 3.0					\vdash				
-+				++	+	+	+		-													
				1 1						1	NOTE: Markers and Ground Mount Guide Signs	TBACI	 ⟨GRO⊔N	D COLORS	S: STRINGER	TYPES:	1		1			
NOTES:			shall verify								are Sheeting Type IX or XI.	RD =	RED		P: Squar					NAME DATE		
	contr					nd m	mas	st a			Regulatory, Warning and Over-head	BI =	BLACE BLUE	•	T: T-sec (WT 3	tion		ESIGN Rawn	OIA	N ZHOU 6/19	☐ INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ☐	
l. The	vations											125 -	2555	.1	1	. '~:'			1 . "	1	INMINE DESIGN SECTION	
l. The	vations gths an	nd elev	ations for	Engi	neer						Guide Signs are Sheeting Type XI.	GR =	GREEN	V	(W) 3	(X6)		HECKED	.		50.00.00	
1. The elevent	vations gths an e Engine	nd elev eer ma	ations for y shift a s	Engi	neer					eve	PANEL TYPES;	YL =	FLUORES	CENT YELL	ow (W) 3)X6)		HECKED Eam Leader			EB SR 88 SIGN SUMMARY	
1. The elevience of the length	vations gths an e Engine nore de	nd elev eer maj sirable	ations for y shift a s location.	Engi ign i	neer n or	rde	er t	to ā	achie		1	YL = BR = WH =	FLUORES BROW	CENT YELLO N	OW (WI 3)×6)	Ī				SIGN SUMMARY	
1. The elevience of the state o	vations gths an e Engine nore de	nd eleve eer mag sirable are a	ations for y shift a s location. pproximate	Engi ign i	neer n or	rde	er t	to ā	achie		PANEL TYPES; RWM: Regulatory, Warning or Marker	YL = BR = WH =	FLUORES BROW WHITE ORAN	CENT YELLO N	OW)×6)	Ī	AM LEADER		88 - SUPERS	SIGN SUMMARY	SHEET 5 OF 20

	П			\top				Т	Τf	<u> </u>		Panel						Ground	1 Mc) Int	ed			
				<u> </u>		rk			(++)	=	L	T dilei					<u>ا</u> ا	Posts			tringer			TAL RECORD DRAWING
						istir	ng		‡	Heigi I	Color				;		မို ့			⊣ທ —			9 ARIZ. 91	
					Panel	egend			i	<u> </u>	Č			2	<u>i</u> -		id Item Numbo		(f†)	ase	ŧ.	Overhead		
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Plan				» - e N	의		Remain			Ĕ	<u>o</u>						tem ndati		ju	Slipb	G	Structure Type #of Lights		
Sht		Sign	Sign		띩띯		0 8	F Se	5	ξ	ş.		吉	ρ̈́	Ö G	De	🖺 §		<u>.</u>	1 10				
No.		Number	Code		휘漢	[ĕ	والج	Offset	ع ا	ğ	Backgr	Legend	Width	Heigh†	Ar	Σ Σ	Bid Fo∪	Тур	101	New	Total	S+r	Remarks	
T-04.04	EB	Sta. 113+80	M3-2		╗		<u> </u>		-			East					2020047							
	 	+	M1-5a(88)	+	+	11	x					SR 88												
			50.507	+	+		+					3/1 00												
T-04 04	FR	Sta. 113+91(L)	R1-2	 	+	+	+	6	+,	7	WH	YIELD 4	48	48	7.0	RWM	6080005 1	2 1/2T	11	1			Left Side	
7 07.07	120	3/0: 1/3 - 3/(2/	717 2	+^+	-	++	+	+-	+ '	+	***	TILLU	,,,	,,,	7.0	7,11111	0000003 7	2 1/2/	+ **	╁			2017 3700	
T-04 04	FR	Sta. 114+00(R)	R1-2	$\dashv \downarrow \mid$	+	+		3	+-	,	WH	YIELD 4	48	48	7.0	RWM	6080005 1	2 1/2T	11	,			Right Side	
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1-04.04	EB	Sta. 114+46	R6-1R	X	-	++	+	6	:	5	BK		54	18	6.8	RWM	6080005 2	2 1/21	20	2 1	8			
	-	+	R6-4b	X	_	++				_	WH	Roundabout Directional(4) 6	50	24	10.0	RWM	6080005							
	_			$\perp \perp$	\bot	\sqcup	\perp		_	\perp						<u> </u>		<u> </u>	1					
1-04.04	ĮΕΒ	Sta. 114+76	Guide		\perp	$\perp \perp$		6	7	7	GR	·	56	30	13.8	F-DA	6080025 2	2 1/25	23	2 F	10			
				$\perp \perp \perp$								Blvd Right Diagonal Arrow												
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T-04 . 04	EB	Sta. 115+65	M3-2	x				6	7	7	WH	East 2	24	12	2.0	RWM	6080005 1	2 1/2T	14	1				
		+	M1-5a(88)	X							WH	SR 88 2	24	24	4.0	RWM	6080005							
		+	M6-2R	X							WH	Diagonal Arrow 2	24	18	3.0	RWM	6080005							
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T-04.04	FB	Sta. 115+90	W11-2	x	1	T		3	+7	7 Y	′L/GR	Pedestrian Symbol 3	36	36	9.0	RWM	6080005 1	2 1/2T	12	1				
	╫	+	W16-7P	$\frac{1}{x}$	-	+		+-			L/GR	,	30	18	3.8	RWM	6080005		+					
				$+$ $^+$ $+$	+	+						Bragonar Bown Earl Partow	-	70	3.0	1	0000000							
T-04 04	FR	Sta. 116+97	GUIDE	++	+	++	y			_		Canyon Lake 14/Apache Lake 32/Roosevelt Lake 44					2020047		-					
7 07.07	120	310. 110. 31	GOIDE	+	+	++	^ +					Carryon Lake 147 Apache Lake 327 Nooseven Lake 44					2020047							
T-04 04	- D	Sta. 117+25	W4-2R	+	+	+	+	6	+,	,	YL	Lane Ends 3	36	36	9.0	RWM	6080005 1	2 1/2T	12	,				
1-04.04	LB	310. 111 + 23	W4-Z/\	- ^-	-	++	+		+'	'+	1	Lane Ends	06	26	9.0	T WWW	8080003 1	2 1/21	12					
T 04 04	-	Ct- 117 . 41		++	-	++	x	+		+							0000047				+			
1-04.04	LB	Sta. 117+41	M3-2	++	-	++	<u>x</u>			_		East					2020047							
	-	+	M1-5a(88)	++	_	+ +	<i>x</i>					SR 88												
	<u> </u>			\perp	_	\perp	_			_														
T-04 . 04	EB	Sta. 118+19	R2-1 (50)	\perp	_	11	X					SPEED LIMIT 50					2020047							
	1			$\perp \perp$		$\perp \perp$				_														
T-04 . 06	EB	Sta. 124+08	W8-18aAZ	$\perp \perp \perp$		11	X					FLASH FLOOD AREA					2020047							
		+	W16-104P	$\perp \perp \perp$		1.	X					NEXT 8 / MILES												
						Ш																		
T-04 . 06	EΒ	Sta. 125+92	GUIDE	X				12	7	7	BR	Canyon Lake 14/Apache Lake 32/Roosevelt Lake 44 10	08	42	31.5	F-DA	6080025 2	2 1/2T	22	2 F	16			
T-04 . 06	EΒ	Sta. 128+42	W8-18aAZ	X				12	7	7	YL	FLASH FLOOD AREA 3	36	36	9.0	RWM	6080005 1	2 1/2T	14	1				
		+	W16-104P		\top	$\dagger \dagger$	\top			\top	YL		36	18	4.5	RWM	6080005							
				\top	\top	$\dagger \dagger$	\top	1		\top									1					
T-04.06	EΒ	Sta. 130+92	R2-1 (50)		+	$\dagger \dagger$	\top	12	† 7	7	WH	SPEED LIMIT 50 2	24	30	5.0	RWM	6080005 1	2 1/25	12					
- 1.00	ΓŤ			+"+	+	+	+	+:-	+ '	+		2. 223 2 33							† 	+	+			
	1			++	+	++	+	+	+	+						 			1	++	+			
NOTES	<u>. </u>											NOTE: Markers and Ground Mount Guide Sign	ns I	BYCKC	BUIND		STRINGER	TYPFS.	1				I	
		contractor	shall verif	V DO	s+ I	lena	լ+ի	s an	nd			are Sheeting Type IX or XI.		RD =	RED	COLONS	P: Square		Г			NAME DATI	ARIZONA DEPARTMENT OF TRANSPORTATION	
ele	eva	itions and o	cantilever d	colum	n a	ind ī	mas	st a	rm			Regulatory, Warning and Over-head		BK = 1	BLACK		l post			ESIGN RAWN	011	AN ZHOU 6/1	INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION	
ler	ngtl	hs and elev	ations for	Engi	inee	er's	ар	prov	val.	•		Guide Signs are Sheeting Type XI.	- 1	BL = I GR =	GREEN		T: T-sect	x6)	CI	HECKED		6/1	TRAITIE BESIGN SECTION	
2. Th	ne E	Engineer ma	y shift a s	sign	in d	orde	er :	to a	achi	ieve	•	PANEL TYPES;		YL = FL	. UORESCE	ENT YELLO	w		Ī	EAM LEADER	?		EB SR 88 SIGN SUMMARY	
		re desirabl										RWM: Regulatory, Warning or Marker F-DA: Flat-sheet aluminum with demountab			BROWN WHITE					OCATION			JION SUMMART	
		tities are of mation only		e and	d fo	or t	he	cor	ntr.	ac†	or's	characters	/\\ \	OR =	ORANGE		.		"	IUN	SR	88 - SUPER	STITION BLVD INTERSECTION	SHEET 6 OF 20
11.1	101	marion only	· •									Ext: Aluminum extrusions		YL/GR	= FLUC	ORESCENT OW-GREE	N			TRAC	S NO.			OF
												12:18:27 PM 6/27/2019 V:\Trof					offic CADD Stand							

		\top							 ∓	:	F	anel					Ground	d Mc	unt	ed			
				\vdash		ork		4	(+ +)	:							Posts		т т	Stringer	1		AL RECORD DRAWING
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					Panel Panel	[] []		1-	∯	9 P			ج	۳-		Numbe		(f†)	аse	(ft)	Overhead		
Disa							2.	£ ₌	0			Ĉ.	j.	.gg.		id Item Num oundations		Total length	Slipb	Length	Structure Type #of Lights		
Plan					읽뚩		nove	e [:=	P			<u></u>		0	 tem ndati		<u> </u>	≌ ,	_ارّ	Type Type		
Sht	Sign		Sign	» -	ရွို ခွ		<u> </u>	Offset	Mounting	Backgr		Width	Heigh†	φ Γ	уре	Bid Pour	уре) tal	Ne K	Total	Structu Type #of Ligh	_	
No.	Number		Code	ž	亂~	2 ≌	8 1				Legend			Ar		<u>е</u>	⊢			<u> </u>	S #	Remarks	
-04.06 WE	B Sta. 131	1+50	W3-5	X		Ш		12	7	YL	Speed Reduction 35	36	36	9.0	RWM	6080005 1	2 1/2T	12	1				
				$\perp \perp$		$\perp \perp$																	
T-04.06 WB	3 Sta. 129	9+00	R2-1 (35)	X				12	7	W/-	SPEED LIMIT 35	36	48	12.0	RWM	6080005 1	2 1/2T	13	1				
				$\perp \perp$																			
-04 . 06 WB	3 Sta. 124	1+00	W2-6	X		\perp		12	7	YL	Roundabout	36	36	9.0	RWM	6080005 1	2 1/2T	14	1				
	+		W13-1P	X						YL	20 MPH	24	24	4.0	RWM	6080005							
				$\perp \perp$																			
T-04 . 06 WB	3 Sta. 124	<i>1+00</i>	W3-5aAZ				X				SPEED REDUCED AHEAD					2020047							
-04 . 06 WE	B Sta. 121	1+55	R4-7	X				Ctr	. 7	W/-	Keep Right Symbol	24	30	5.0	RWM	6080005 1	2 1/25	12				Center in Island	
						\prod			I														
r-04 . 06 ₩B	3 Sta. 120	+ 30	W2-1	\prod			X				Cross Road					2020047							
	+		W16-8P	\prod			X				Superstition Blvd												
T-04.06 WB	3 Sta. 120)+04	GUIDE	X				12	7	GF	SR 88 Shield West	192	84	112.0	EXT	6080018 3	W6X12	48					
											East Superstition Blvd / Roundabout /												
											West Superstition Blvd												
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T-04.04 WE	B Sta. 118	3+39	R3-8KQ	x		11			7	W/-	Left-Straight Arrow Symbol /	36	30	7.5	RWM	6080005						Mount on Light Pole	
				\top		1 1					Straight-Right Arrow Symbol											•	
				$\pm \pm$		11																	
r-04.04 WE	B Sta. 118	3+19	R2-1 (40)	+		+	X				SPEED LIMIT 40					2020047							
				++		1 1																	
T-04.04 WF	B Sta. 116	S+18	W11-2	 		$\dagger \dagger$			17	YL/0	R Pedestrian Symbol	36	36	9.0	RWM	6080005						Mount on Light Pole	
	+	- 10	W16-7P	$\frac{1}{x}$		+			7		·	30	18	3.8	RWM	6080005							
				+"+		$\dagger \dagger$				1.57	Sommer & Bregorier		1			0000000							
T-04.04 WB	9 Sta. 115+	63(1)	R1-2	 		+	+	6	17	W/-	YIELD	48	48	7.0	RWM	6080005 1	2 1/2T	11	1			Left Side	
01.01	3 3.01 113	03127		+		+		+	+ ′	 ""	11225		 ,	7.0	1,177,00	00000003 1	2 1/ 2/	+**	╁			20.7 3.00	
r-04 04 WR	3 Sta. 115+	50(R)	R1-2	 		+		3	 7	W/-	YIELD	48	48	7.0	RWM	6080005 1	2 1/2T	11	1			Right Side	
07.07 112	3 3/0. 113	30(71)	7.7 2	+^+	+	+		+-	+ ′	— " "	TILLD		+ "	7.0	7,777	00000003 1	2 1/21	111	+ +			Trigin Side	
r-04 04 WF	B Sta. 115	+05	R6-1R	 	+	+		6	5	BK	ONE WAY (Right)	54	18	6.8	RWM	6080005 2	2 1/2T	20	2	D 8			
007 172	+	,	R6-4b	<u>^</u>	+	++	+	+	+ -	WE		60	24	10.0	RWM	6080005	2 1/21	120	- '	+			
	•		יוט דט	+^+	+	++	+		+	"/	TOUTHOUSE STITE CHOIGHT			10.0	, , , , , , , , , , , , , , , , , , ,	0000003							
r-04 04 WE	B Sta. 114	1 + 77	Guide	+++	+	+	+	6	 7	GF	W Superstition	66	30	13.8	F-DA	6080025 2	2 1/25	27	2	D 10			
U7.U7 W/C	114 מוט כ	, ,	Juiut	+^+	+	++	+	+*	+'	67	W Superstition Blvd Right Diagonal Arrow	00	1 30	15.0	i -DA	0000023 2	2 1/23	رع		10			
				++	+	++	+		+		DIVU RIGIII DIAGONALATIOW				-			+	\vdash				
T-04 04 W/	B Sta. 113	7 + OF	M3-4	$\frac{1}{x}$	+	++	+	6	7	W H	Wast	21	10	20	DIMA	6080005 1	2 1/07	1.4	 				
-04.04 WE		7 7 7 7 7		14	+	++	+	16	+'			24	12 24	2.0	RWM	 	2 1/21	14					
	+		M1-5a(88)	+++	+	+	+		+	WH		24	+	4.0	RWM	6080005							
	+		M6-2R	 	+	++	\perp		+	W/-	Diagonal Arrow	24	18	3.0	RWM	6080005		-	\vdash				
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-04.03 W	VB Sta. 104+74	R2-1 (35)			7	Х				SPEED LIMIT 35					2020047							
-04.03 W	/B Sta. 103+48	M3-4	X				10	7	WH	West 2	4	12	2.0	RWM	6080005 1	2 1/2T	14	1				
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	+	M5-1L	X						WH	Advance Turn Arrow (Left) 2	4	18	3.0	RWM	6080005							
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T-04.04 L	EB Sta. 13+62		X				6	5	5 <i>B</i> *	ONE WAY (Right)	54	18	6.8	RWM		2 1/2T	20	2 F	8			
	+	R6-4b	X	_	\perp				_ W⊦	Roundabout Directional (4)	60	24	10.0	RWM	6080005							
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7 07.07 [+	D3-1			+	_	<u> </u>			SUPERSTITION BLVD												
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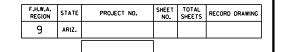
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T-04 04	WB Sta. 17+40	R4-7	<u> </u>	+	-	+	Ctr	7	WH	Keep Right Symbol	24	30	5.0	RWM	6080005 1	2 1/25	12					
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T-04 04	WB Sta. 15+51	W11-2	<u> </u>	+				7	YL/GR	Pedestrian Symbol	36	36	9.0	RWM	6080005						Mount on Light Pole	
7 07.07	+	W16-7P	$\frac{1}{x}$	+					YL/GR	Downward Diagonal Arrow	30	18	3.8	RWM	6080005						modrii on Eigin i olo	
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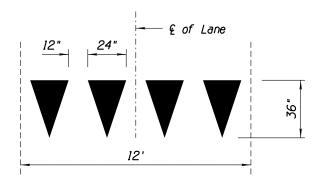
PAVEMENT MARKING NOTES:

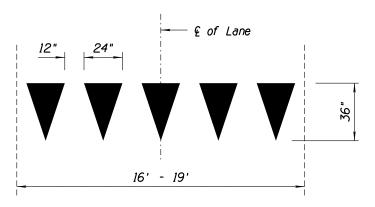
- 1. It is the contractor's responsibility to ensure that the final surface course is placed so that the striping is offset one foot clear of the construction joint, unless otherwise directed by the Engineer.
- 2. The contractor shall be responsible for the layout and installation of pavement markings on the final surface course following points that have been set no more than 50 feet apart on the alignment of the yellow striping.
- 3. The dimensions shown to pavement striping are to the center of the striping or, in the case of double striping, to the center of the double striping.
- 4. Three working days prior to final striping layout, the contractor shall contact Phoenix Regional Signing and Striping Section at (602) 291-1318, Marcos Espinosa, to coordinate the layout inspection.
- 5. At the completion of the final pavement surface each day, center lines, lane lines, edge lines, stop bars, crosswalk lines and pavement arrows shall be striped with one application of standard reflectorized traffic paint at the locations of the permanent striping. The paint shall have a minimum thickness of 15 mils wet. All painted striping shall be 4 inches wide. However, each painted stop bar and each solid white lane line and crosswalk line striping shall be at least 12 inches wide.
- 6. The final striping shall be 90 mil (0.090 inch) thick alkyd extruded thermoplastic reflectorized striping placed over the existing striping a minimum of 30 calendar days after the initial striping, as directed by the Engineer. All other markings shall be applied at the same time.
- 7. All final stop bars, pavement arrows, legends, and crosswalk lines shall be white 90 mil (0.090 inch) thick alkyd extruded thermoplastic reflectorized markings, except as otherwise indicated on the pavement marking plans.
- 8. All raised pavement markers shall have an abrasion resistant coating on the face of the prismatic reflectors, and shall conform to the details of Std. Dwg. M-19. They shall be installed with a bituminous adhesive which is on the ADOT Approved Products List or an approved equal.
- All raised pavement markers shall be installed so that the reflective face of each marker is facing the direction of traffic and is perpendicular to the direction of traffic flow.
- 10. Where raised pavement markers are placed between double yellow striping, they shall be centered in the 6 inch gap between the lines. For broken striping, the markers shall be placed to align with the broken striping. For solid striping, the markers shall be offset 2 inches from the nearest edge of the striping on the side of the through lane.
- 11. The contractor shall paint the end of the raised "medians and islands" in accordance with the project plans and Std. Dwg. M-1.

- 12. The contractor shall clean the roadway surface to the satisfaction of the Engineer, by sweeping and air-jet blowing, immediately prior to the placement of all pavement markings. The roadway surface shall be dry and the air and pavement temperatures shall not be less than 55°F for the placement of thermoplastic striping.
- 13. When stripe obliteration is necessary, it shall be accomplished by approved methods. Painting over striping, removal of pavement, and overlaying pavement do not constitute stripe obliteration.
- 14. The pavement marking drawings are schematic only and not to scale. The contractor shall follow all dimensions and details when installing pavement markings.
- 15. The contractor shall preserve all roadway sign panels, sign posts, object markers and milepost markers. The contractor shall replace any signing, object markers and milepost markers damaged as a result of the construction at the contractor's expense, except as otherwise shown on the plans.
- 16. The contractor shall remove the existing pavement markers on SR 88 and Superstition Blvd. in conjunction with the construction operations. There shall be no measurement or payment for the removal of the existing pavement markers.
- 17. All gaps in striping begin at the return radius of the perpendicular cross street except where otherwise noted.
- 18. The Engineer may modify the pavement marking plans.

	APPROXIMATE PAVEMEN	IT MARKING QUANTITI	ES	
ITEM NO	ITEM		UNIT	TOTAL
7040005	Permanent Pavement Marking 90 Mil Extruded Thermoplastic	6" White	LF	9,073
7040006	(4" Equivalent)	6" Yellow	LF	14,294
7040072	White 90 Mil Alkyd	Transverse (4" Equivalent)	LF	6,774
7040073	Extruded Thermoplastic	Pavement Legend	Each	5
7040074	Pavement Marking	Pavement Symbol - Arrow	Each	28
7060015	Raised Pavement Markers	Type D	Each	224
7060018	Naisea Faveilleili Markers	Type G	Each	234
7080001		4" White	LF	9 , 833
7080011		4" Yellow	LF	14,294
7080121	Standard Reflectorized Traffic Paint	Pavement Symbol - Arrow	Each	28
7080301		Painted Bull Nose	Each	12







DETAIL X
White Yield Line
See 2009 MUTCD
Figure 3B-16

DESIGN
DESIGN
DRAWN
LARRY LOPEZ
GF/19
CHECKED
TEAM LEADER

SR 88 - SUPERSTITION BLVD INTERSECTION

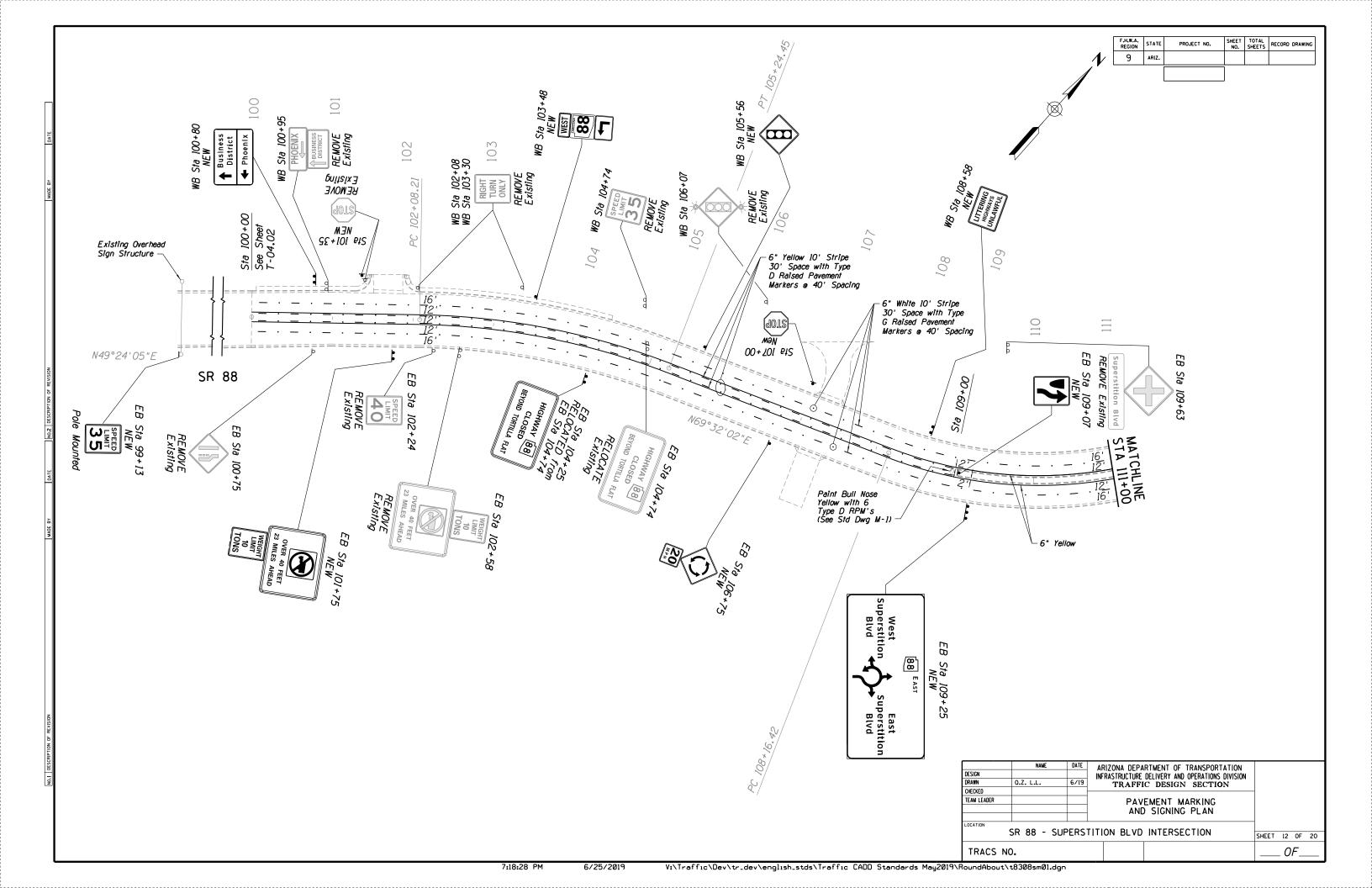
TRACS NO.

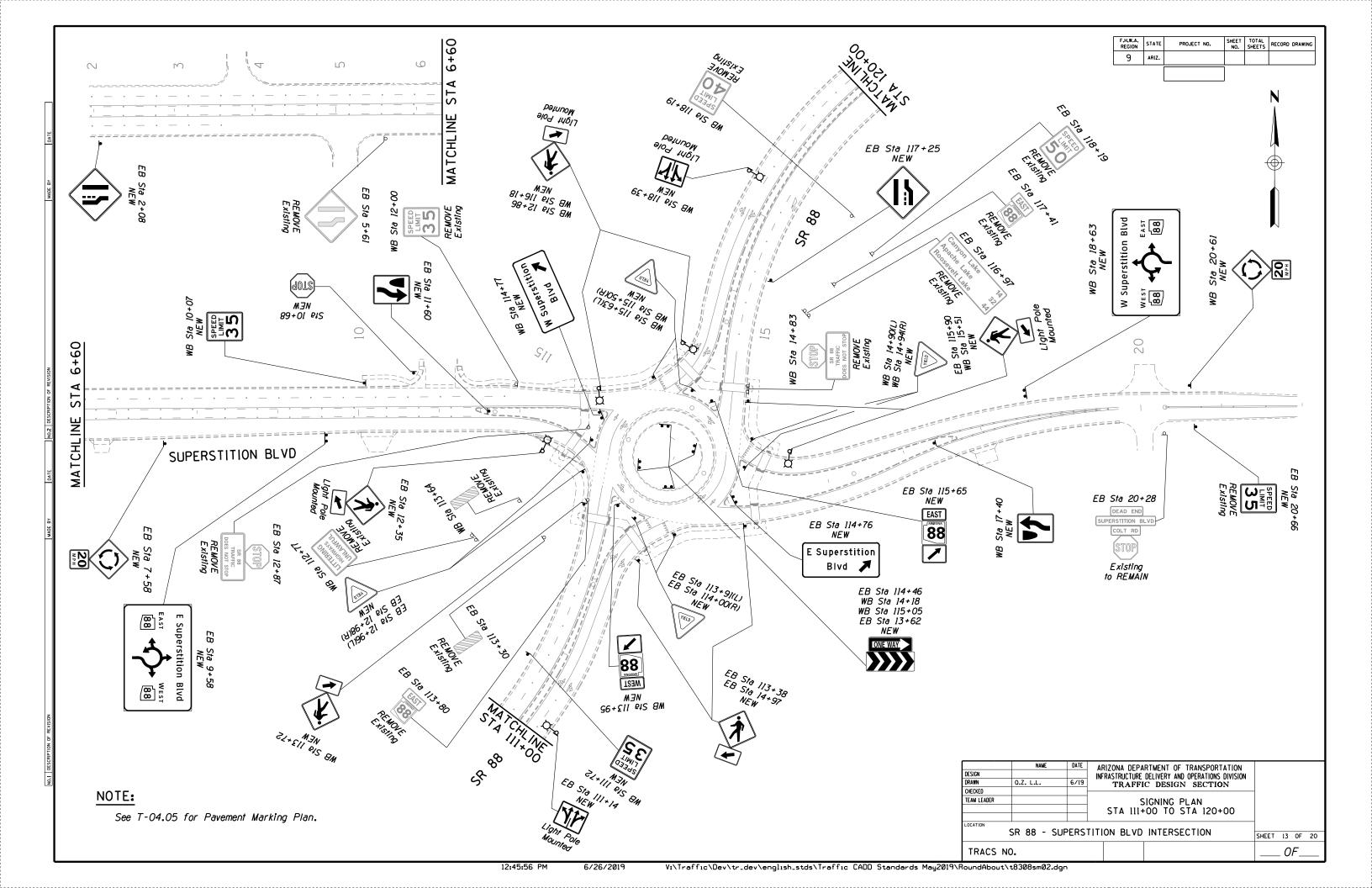
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRICTURE DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

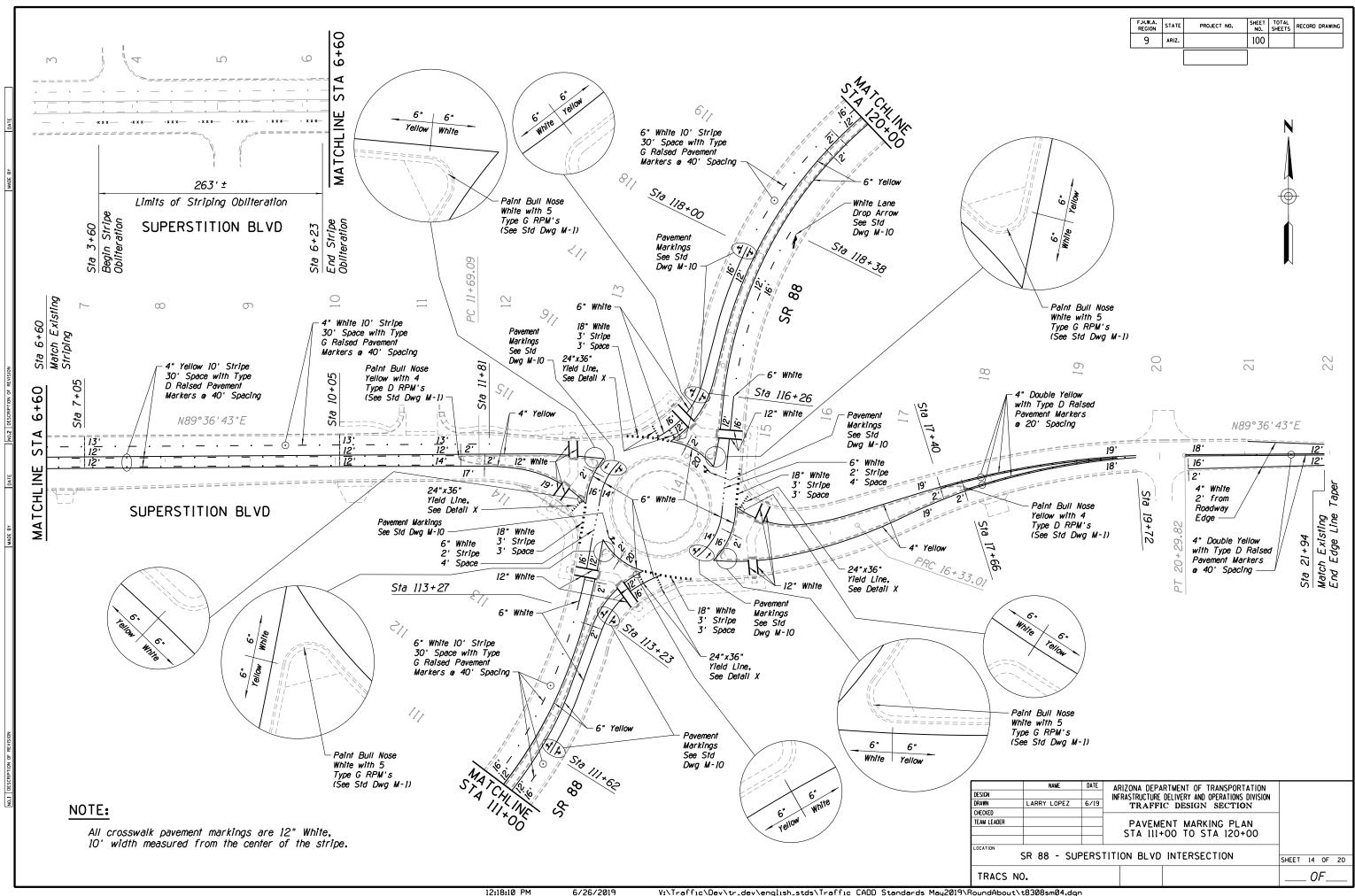
PAVEMENT MARKING NOTES
AND QUANTITIES

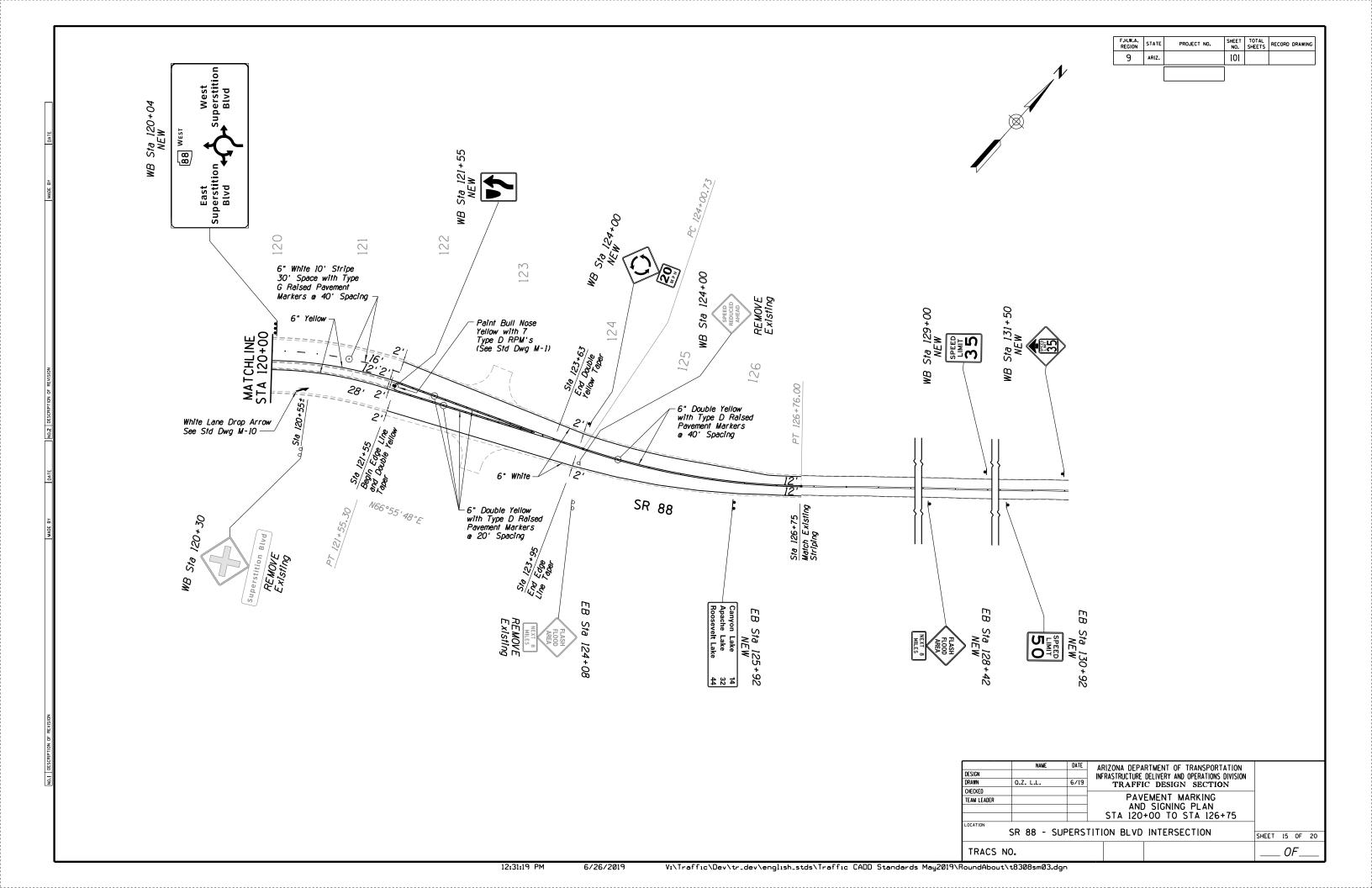
SHEET 11 OF 20

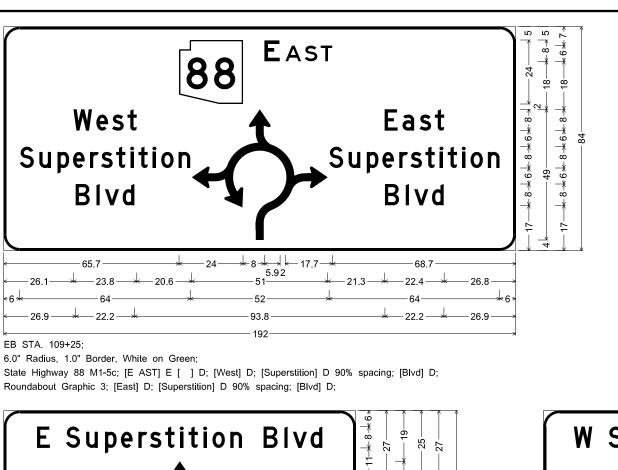
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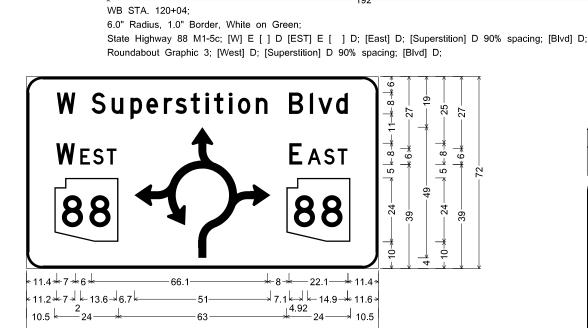




WEST

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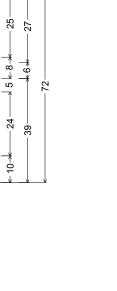
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East

Superstition

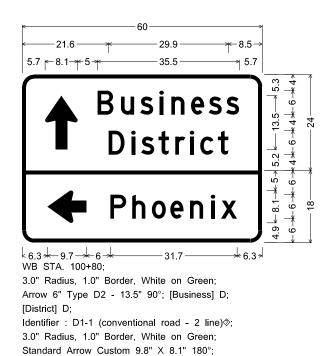
Blvd



West

Superstition

Blvd



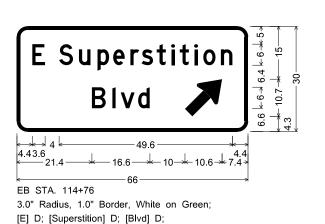
[Phoenix] D;

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PROJECT NO.

SHEET TOTAL RECORD DRAWING



[E Superstition Blvd] D, [E AST] D, State Highway 88 M1-5c,

Roundabout Graphic 3; [W EST] D; State Highway 88 M1-5c;

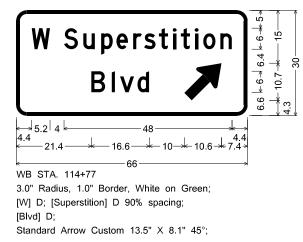
EAST

-12.5 * * 6 *

EB STA 9+58:

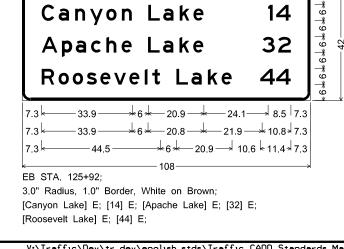
6.0" Radius, 1.0" Border, White on Green;

Standard Arrow Custom 13.5" X 8.1" 45°;



24

39



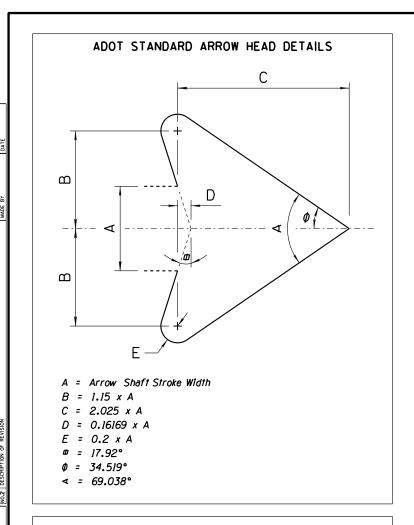
WB STA 18+63:

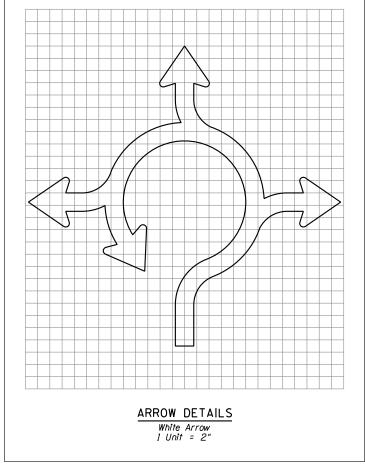
6.0" Radius, 1.0" Border, White on Green;

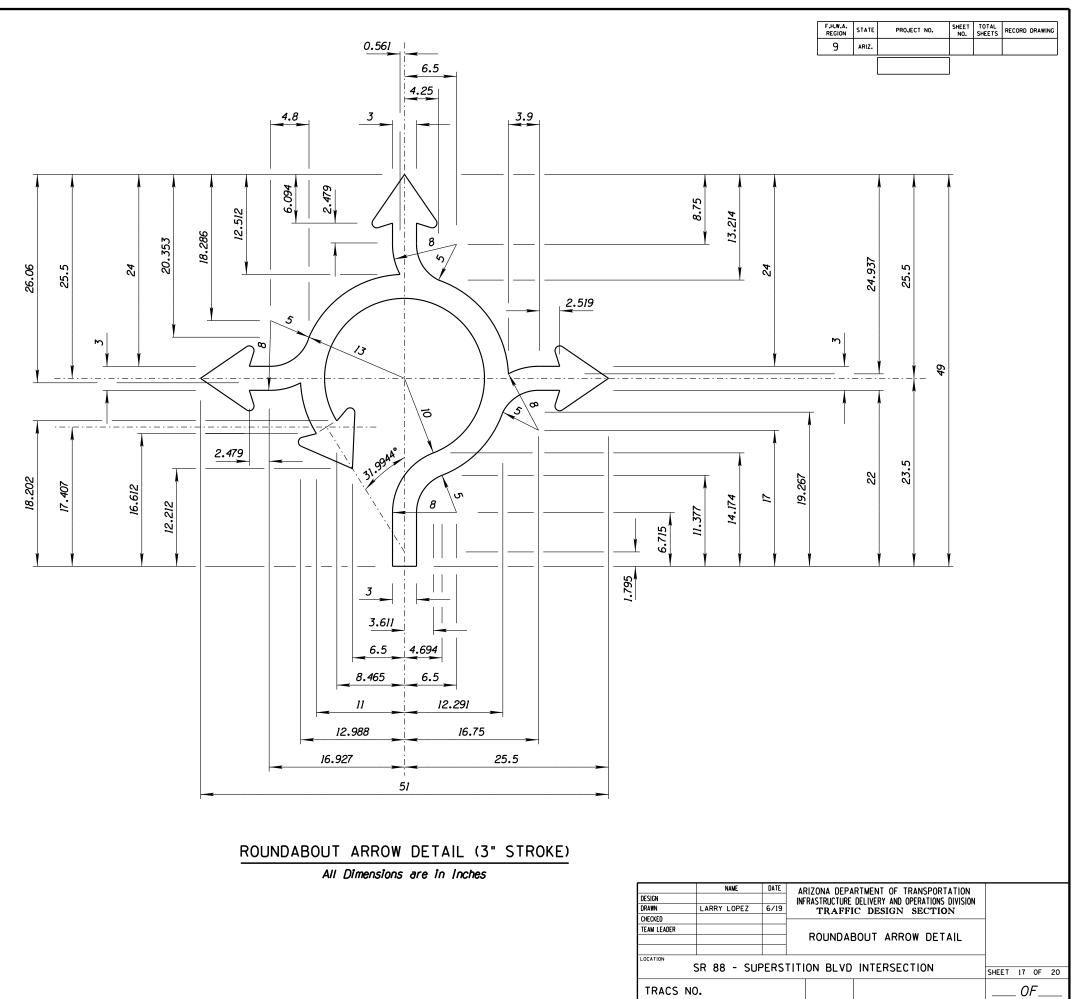
[W Superstition Blvd] D; [W EST] D; State Highway 88 M1-5c;

Roundabout Graphic 3; [E AST] D; State Highway 88 M1-5c;

WEST







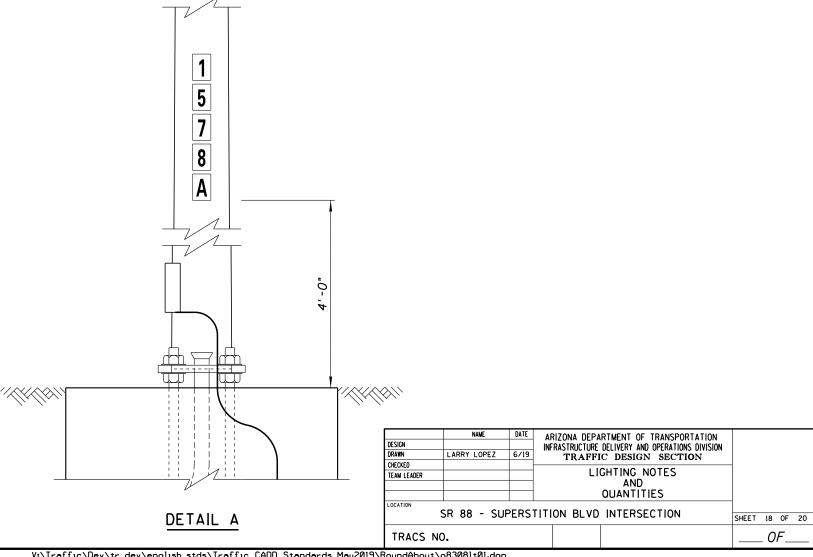
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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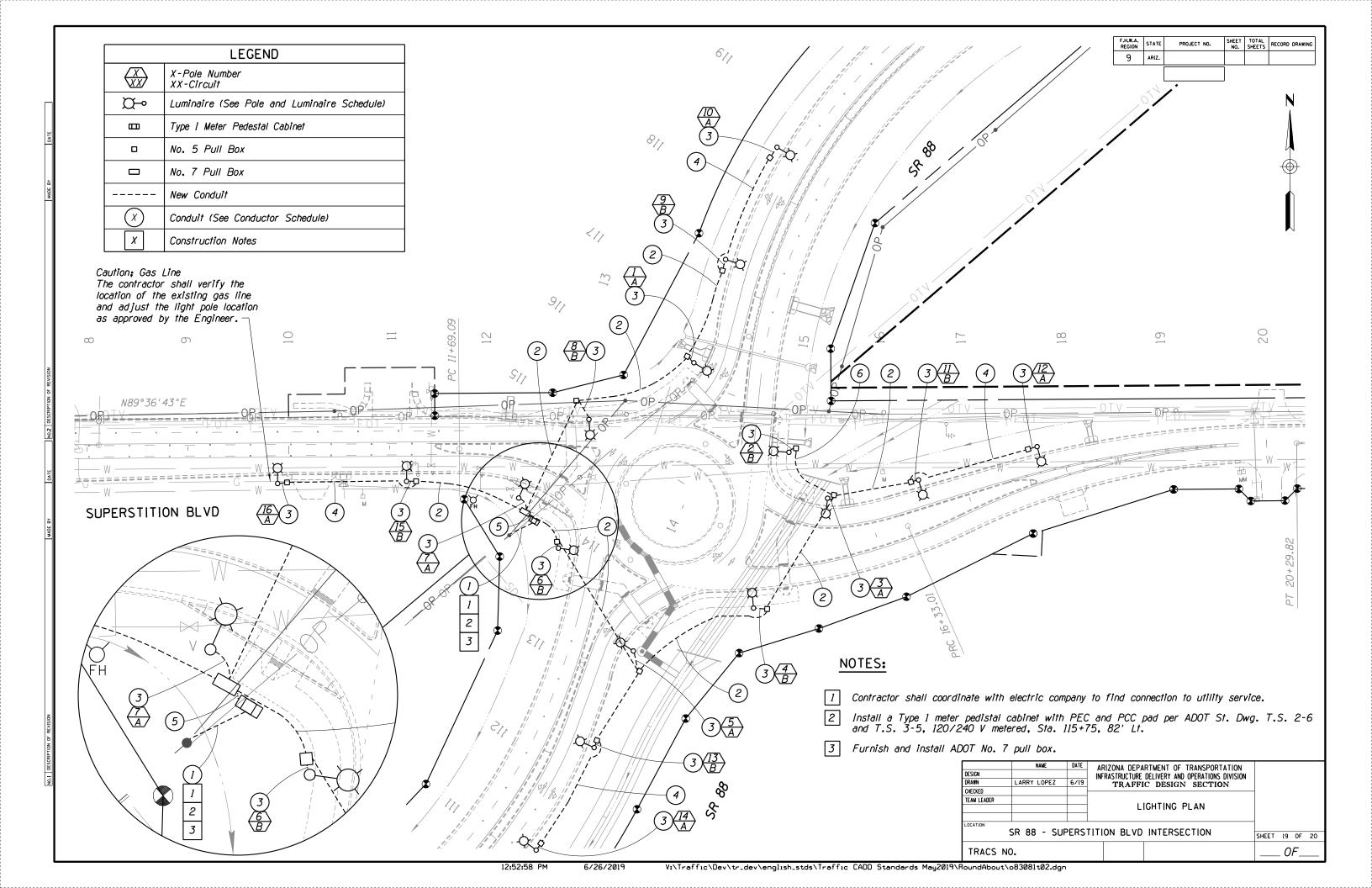
GENERAL NOTES FOR ROADWAY LIGHTING:

- 1. The location of utilities, including existing roadway lighting features (poles, luminaires, pull boxes and conduit) are approximate. The contractor shall be responsible, per section 730-6 of the ADOT Standard Specifications, for contacting all utilities (including ADOT) for exact locations prior to any construction activity. The contractor is responsible for maintaining proper clearances as required by the utility company.
- 2. Each luminaire shall be individually fused with in-line connectors in the nearest adjacent pull box per ADOT Std. Dwg. T.S. 1-4.
- 3. The contractor shall verify the actual location of the electrical service with the SRP prior to trenching and installing 2.5" Schedule 40 PVC conduit (maximum 2 feet from service point). Contractor shall coordinate with SRP for inspection of conduit before trench is backfilled. Contractor shall coordinate with SRP when the system is ready to be energized. SRP will install conductors and meter.
- 4. The contractor shall obtain maintenance unit numbers from ADOT Traffic Operations. Contact Bill Major (602) 712-6793. Maintenance unit numbers shall be affixed to the Pole facing the roadway as shown in Detail A.
- 5. All type "G" poles and mast arms shall be aluminum type "G" poles per ADOT Standard Drawing T.S. 4-5 and T.S. 4-27.
- 6. Breakaway bases for type "G" poles shall be type 2 breakaway bases per ADOT Standard Drawing T.S. 5-1.
- 7. When using breakaway bases, in-line unfused connectors are used in the breakaway base in conjunction with in-line connector clamps per ADOT Standard Drawings T.S. 5-0 and T.S. 5-1.
- 8. All work shall conform to the Arizona Department of Transportation (ADOT) Standard Specifications for Road and Bridge Construction 2008, 2012 Standard Drawings for Traffic Signals and Lighting, and the Special Provisions.
- 9. Contractor shall coordinate the construction work requirements of the lighting plans with the construction work requirements of the total project plan set(s). Contractor's work shall be installed in a timely and coordinated basis with the other contractors working within the project limits.

	ROADWAY LIGHTING POLE AND LUMINAIRE QUAN	NTITIES	
ITEM NUMBER	ITEM	UNIT	TOTAL
7310190	Pole (Type G) (Aluminum)	Each	16
7310197	Braeakaway Base for Lighting Pole or Signal Flasher	Each	16
7310371	Pole Foundation (Type G) (Aluminum Breakaway Base)	Each	16
7310650	Mast Arm (10 Ft) (Aluminum)	Each	16
7320050	Electrical Conduit (2") (PVC)	LF	1,950
7320410	Pull Box (No. 5)	Each	16
7320420	Pull Box (No. 7)	Each	1
7320500	Conductor (No. 12)	LF	1,000
7320520	Conductor (No. 8)	LF	5 , 200
7320590	Conductor (Insulated Bond) (No. 8)	LF	1,600
7360112	Luminaire (Horizontal Mount) (LED 25L)	Each	16
7360220	Load Center Cabinet (Type II) (120/240 Volt)	Each	1
7370400	Electrical Service	L Sum	1
9240103	Miscellaneous Work (Electrical Record Drawings)	L Sum	1

- 10. The plans show the general path and location of the conduit in relation to major physical features. The locations of other utilities and other objects along the conduit path may not be shown in the plans but shall be identified by the contractor as the conduit route is marked just prior to installation. The information on the drawings concerning the type and location of existing underground and overhead utilities is approximate and has not been independently verified by the Engineer or the Engineer's agent. The contractor shall determine the exact location of all existing utilities and shall be fully responsible for any and all damages which might result from the contractor's failure to locate and preserve any and all underground and overhead utilities. Repairing utility facilities damaged by the contractor shall be replaced in kind at no additional cost to the Department.
- 11. The contractor shall place warning tape in all trenches in which new conduit is placed per section 732-2.02 and 732-3.02 in the 2008 Arizona Standard Specifications for Road and Bridge Construction. The cost of the warning tape and installation shall be included in the cost of the conduit and not paid for separately.
- 12. The contractor shall perform a ground resistance test for each installed ground rod and each pole foundation grounding coil in accordance with subsection 732-3.03. All test results shall be documented and submitted to the Engineer.
- 13. All new pole foundations shall be inspected by the traffic signal inspector prior to placement of concrete. Placement of all poles shall provide 10 feet minimum clearance from poles/arms/fixtures and all features to any electrical high voltage power lines. Top of foundation shall match the finished surrounding grade.





				POLE A	ND LUM	IINAIRE :	SCHEDUL	E					
POLE	CIRCUIT	ROADWAY	STATION	OFFSET		DLE	FOUNDATION		LUMINAIRE				MAINTENANCE
NO.	CINCUIT	NOADWAT	STATION	011361	TYPE	MAST ARM	TYPE	BASE	TYPE	WATT	TYPE	DIST. TYPE	UNIT NO.
1	Α	SR 88	116+18	46' Lt	G-Alum	10'	Std	B/A-2	HΖ	25L	LED	111	
2	В	SR 88	115+75	76' Rt	G-Alum	10'	Std	B/A-2	HΖ	25L	LED	111	
3	Α	Superstition Blvd	<i>15 + 51</i>	47' Lt	G-Alum	10'	Std	B/A-2	HΖ	25L	LED	111	
4	В	Superstition Blvd	14+91	68' Rt	G-Alum	10'	Std	B/A-2	HΖ	25L	LED	111	
5	Α	SR 88	113+24	44' Rt	G-Alum	10'	Std	B/A-2	ΗZ	25L	LED	111	
6	В	SR 88	113+83	67' Lt	G-Alum	10'	Std	B/A-2	ΗZ	25L	LED	111	
7	Α	Superstition Blvd	12+35	44' Rt	G-Alum	10'	Std	B/A-2	ΗZ	25L	LED	111	
8	В	Superstition Blvd	12+86	47' Lt	G-Alum	10'	Std	B/A-2	HΖ	25L	LED	111	
9	В	SR 88	117 + 26	42' Lt	G-Alum	10'	Std	B/A-2	HΖ	25L	LED	111	
10	Α	SR 88	118+39	42' Lt	G-Alum	10'	Std	B/A-2	ΗZ	25L	LED	111	
11	В	Superstition Blvd	16+60	38' Lt	G-Alum	10'	Std	B/A-2	ΗZ	25L	LED	111	
12	Α	Superstition Blvd	17+78	32' Lt	G-Alum	10'	Std	B/A-2	ΗZ	25L	LED	111	
13	В	SR 88	112+23	40' Rt	G-Alum	10'	Std	B/A-2	HΖ	25L	LED	111	
14	Α	SR 88	111+14	42' Rt	G-Alum	10'	Std	B/A-2	ΗZ	25L	LED	111	
15	В	Superstition Blvd	11 + 17	32' Rt	G-Alum	10'	Std	B/A-2	HΖ	25L	LED	111	
16	Α	Superstition Blvd	9+89	33' Rt	G-Alum	10'	Std	B/A-2	HΖ	25L	LED	111	

	CONDUCTOR SCHEDULE									
	CONDUIT RUN NUMBER	1*	2	3	4	5	6			
	CONDUIT SIZE IN INCHES		2	2	2	2	2			
AWG	CIRCUIT PHASE									
#8	Lighting (pullbox to pole)	S		2						
		R								
#8	Lighting Circuit A	P	2		2	2				
	Lighting Circuit B		2			2	2			
#8	Insulated Bond (Green)		1	1	1	1	1			

* Conduit size and type shall conform to SRP requirements; and paid for per bid item #7370400

Circuit A- 20 amp double pole breaker Circuit B- 20 amp double pole breaker

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

G - Aluminum Type G Pole per ADOT Std. Dwg. T.S.4-5

B/A-2 - Type 2 breakaway base per ADOT Std Dwg. T.S. 5-1

STD - Type G Pole Foundation

HZ - Horizontal Mount Luminaire

LED - Light Emitting Diode

NOTES:

- 1. Offset is referenced from the SR 88 center line to the center of the pole.
- 2. The contractor shall obtain maintenance unit numbers from ADOT Traffic Operations. Maintenance unit numbers shall be filled in the Pole and Luminaire Schedule as part of the Record Drawings process.
- 3. All type G pole foundations with breakaway bases shall be constructed with the top of foundation flat and level in accordance with the breakaway base manufacturer's recommendation.
- 4. All luminaires shall be 240 Volt fixtures.
- 5. All street lights shall be installed perpendicular to the curb face.

	NAME	DATE	ARIZONA DEPA	RTMENT OF TRANSPORTAT	ION				
SIGN				DELIVERY AND OPERATIONS DIV					
RAWN	KARIM RASHID	6/19	TRAFFI						
IECKED		-							
AM LEADER			I IGH	ITING POLE AND					
				UCTOR SCHEDULE					
			COND	SCION SCHEDOLL					
CATION									
	SR 88 - SUI	PERSI	TITION BLVD	INTERSECTION		SHEET	20 0	F	20
TRACS N	0.						ΩF		

LV	CO	DESCRIPTION
1	1	GRID TICKS, LINE TERMINATORS
2	2	SPOT ELEV., PHOTO AND PRIMARY CONTROL POINTS
3	3	SECTION CORNERS, QUARTER CORNERS, RANGE LINES, CENTER OF SECTION, PHOTOGRAMMETRY - TEXT
4	4	MONUMENTS, BOUNDARIES: CITY, COUNTY, STATE, PARK, FOREST, RESERVATION - TEXT
5	5	EXIST. INDEX CONTOUR LINES AND TEXT
6	6	EXIST. INTERMEDIATE CONTOUR LINES - TEXT
7	7	EXIST. VEGETATION - TEXT
8	8	MAPPING SYMBOLS: WATER ITEMS AND TEXT
9	9	EXIST. MAN-MADE TOPOGRAPHY: BUILDINGS, NOISE WALLS, BILLBOARDS, FOUNDATIONS, DRIVEWAYS, SIDEWALKS, CATTLE GUARDS, PUMP HOUSES, ETC.
10	10	TEXT FOR LEVEL 9 ITEMS
11	11	EXIST. UTILITIES 9NOT COVERED BELOW), RAILROADS, STANDPIPES, WELLS
12	12	TEXT FOR LEVEL 11 ITEMS
13	13	EXIST. MINOR DRAINAGE ITEMS: CATCH BASINS, MANHOLES, STORM DRAINS, SANITARY SEWERS, DITCHES, DIKES, CANALS, DAMS, GABIONS, HEADWALLS, BERMS, PIPES, END SECTIONS, DOWNDRAINS, SPILLWAYS, APRONS, PIPE OUTLETS, RIPRAP, BANK PROTECTION
14	14	TEXT FOR LEVEL 13, TEXT FOR LEVEL 22
15	15	EXIST. EASEMENT AND PERMIT LINES, TEXT
16	16	EXIST. EDGES OF ROADWAYS, GORE PAVING, GRADER ROADS, TURNOUTS
17	17	EXIST. TRAFFIC ITEMS: X-WALKS, ROADWAY STRIPPING, SIGNAL AND LIGHT POLES. ALL SIGNS AND DELINEATION. EXIST SIGNS
18	18	TEXT FOR LEVEL 17
19	19	ROAD NAMES, TEXT FOR LEVEL 16 ITEMS
20	20	EXIST. NON SURVEYED ROADWAY CENTERLINES WITH TICK MARKS / NEW TOP OF PAVEMENT (TYP SEC)
21	21	EXIST. NON SURVEYED ROADWAY CENTERLINE ITEMS: BEARINGS, STATIONING, EQUATIONS, CURVE DATA, ID FOR: PC, PI, PT
22	22	EXIST. MAJOR DRAINAGE ITEMS: BRIDGES, BOX CULVERTS, RETAINING WALLS, MAJOR CHANNELS, STRUCTURAL PLATE PIPES, TUNNELS.
23	23	EXIST. CHANNELIZATION ITEMS: CURBS, GUARDRAILS, IMPACT ATTENUATORS, CONCRETE BARRIERS (MEDIAN AND HALF), BARRICADES, CHAN LINK CABLE BARRIERS
24	24	TEXT FOR LEVEL 23 ITEMS

25	25	NORTH ARROW, MILEPOST MARKERS, ROADWAY DIMENSIONS, MATCH LINES AND OTHER MISCELLANEOUS ITEMS
	1	ALL MISCELLANEOUS CENTERLINES: SURVEY, OFFICE, ETC. MISCELLANEOUS
		CENTERLINE ITEMS: BEARINGS, STATIONING,
26	26	EQUATIONS, CURVE DATA, ID FOR: PC, PI, PT. LOCATION SERVICES: ALL NEW
		CENTERLINES AND CENTERLINE ITEMS
27	27	NEW CONSTRUCTION CL WITH TICK MARKS, CL STATIONING
		NEW CONSTRUCTION CENTERLINE ITEMS: BEARINGS, CURVE DATA,
28	28	EQUATIONS, ID FOR: PC, PI, PT
29	29	EXIST. FENCES, RIGHT OF WAY MARKERS AND LINES - TEXT
30	30	NEW FENCES, RIGHT OF WAY MARKERS AND LINES - TEXT
31	31	EXIST. ACCESS CONTROL
32	32	NEW ACCESS CONTROL
33	33	
34	34	RW PROPERTY LINES
35	35	NEW EDGES OF PAVEMENT, TURNOUTS, GRADER ROADS, SAW CUTS
36	36	TEXT FOR LEVEL 35 ITEMS
		NEW INTERMEDIATE AND INDEX CONTOUR LINES, NEW CUT AND
37	37	FILL LINES
		NEW MINOR DRAINAGE ITEMS: CATCH BASINS, MANHOLES, STORM DRAINS,
		DITCHES, DIKES, CANALS, DAMS, GABIONS, HEADWALLS, END SECTIONS,
38	38	BERMS, DOWNDRAINS, SPILLWAYS, PIPE OUTLETS, APRONS, PIPES, RIPRAP,
		BANK PROTECTION / DRAINAGE CHANNEL
		(TYP SEC)
39	39	TEXT FOR LEVEL 38 ITEMS (NEW MINOR DRAINAGE ITEMS). TEXT
		FOR LEVEL 48 ITEMS (NEW MAJOR DRAINAGE ITEMS)
40	40	NEW UTILITIES (NOT COVERED BELOW), RAILROADS, STANDPIPES, WELLS
41	41	TEXT FOR LEVEL 40 ITEMS
		NEW MISCELLANEOUS ITEMS (HAZARDS): CATTLE GUARDS, CONCRETE
		BARRIERS, (MEDIAN AND HALF), IMPACT ATTENUATORS, GUARDRAILS,
42	42	BARRICADES, BLOCK FENCES, CHAN
		LINK CABLE BARRIERS, NOISE WALLS, TRAFFIC CONTROL ITEMS - CONES,
		VERTICAL PANELS, FLAGGING TREES
43	43	TEXT FOR LEVEL 42 ITEMS
		NEW MISCELLANEOUS ITEMS (ROADWAY EDGES), GORE PAVING, CURBS,
44	44	SIDEWALKS, DRIVEWAY, ROADWAY SHOULDERS / CURB
		AND GUTTER (TYP SEC)
45	45	TEXT FOR LEVEL 44 ITEMS
46	0	NEW ROADWAY STRIPPING ITEMS (PAVEMENT MARKINGS); 0 FOR WHITE, 17 FOR
	or	YELLOW.
	17	
47	47	TEXT FOR LEVEL 46 ITEMS - DIMENSION LINES AND TEXT FOR SIGNING & MARKING SHEETS
	1	NEW MAJOR DRAINAGE ITEMS: BRIDGES, BOX CULVERTS, TUNNELS, RETAINING
48	48	WALLS, PUMP HOUSES, MAJOR CHANNELS,
	.	STRUCTURAL PLATE PIPES
49	49	NEW LIGHT POLES
50	50	NEW PULLBOXES AND CONDUITS, CABINETS, LOOP DETECTORS,
	50	1.200 . 02250765 7445 6045 6145 6145 6145 6145 6145 6145 6145 61

		NEW DRAINAGE EASEMENT						
		TEXT FOR LEVEL 49 AND LEVEL 50 ITEMS, TEXT FOR POLE						
51	51	SCHEDULE						
52	52	NEW SIGNALS & LUMINAIRS						
53	53	TEXT FOR LEVEL 52 ITEMS - CONDUCTOR SCHEDULE, PHASE						
55	55	DIAGRAMS						
54	54	NEW SIGNS - TEXT - CHANGEABLE MESSAGE SIGNS						
55	55	LANDSCAPE DETAILS / INDEX OF SHEETS TEXT - SIGNING SHEETS TEXT, GENERAL NOTES						
56	56	EXT FOR LEVEL 55 ITEMS						
57	57	IRRIGATION DETAILS						
58	58	TEXT FOR LEVEL 57						
59	59	ALL AREA PATTERNING AND SHADING / SLOPE TEXT (TYP SEC)						
60	60	STANDARD GRID - PROFILE SHEET (1 INCH)						
61	61	STANDARD GRID - PROFILE SHEET (INTERMEDIATE)						
62	62	PLAN SHEET TEXT NODES						
63	63	PLAN SHEET BORDER						
100-199		LOCATION SURVEY + LEGACY						
103	3	GRADEBREAK / BREAKLINES FOR DTM						
104 4		GROUND SHOT / MASS POINTS FOR DTM						
200-299	l	RIGHT OF WAY						
201	1	RW - CELL - ARROW - GRID TICKS						
203	3	RW - LINE-SECTION-MID-SECTION-TOWNSHIP-RANGE-MEANDER [CELL-SECTIONAL CORNERS]						
204	4	RW - LINE-CITY-FOREST-COUNTY-STATE-PARK-RESERVATION [CELL-PLOT SHAPE]						
205	5	RW - TEXT-SECTION LINE BEARING & DISTANCE, CORNER						
		DESCRIPTIONS [CELL-QTR QTR CALLOUTS & LABELS						
206	6	RW - CELL-LABELS						
207	7	RW - CELL-STANDARD ABBREVIATIONS						
211	11	RW - LINE-RAILROAD CENTERLINE [CELL-STANDARD ABBREVIATIONS]						
215	15	RW - LINE-EXISTING EASEMENT [CELL-LABELS & STANDARD ABBREVIATIONS]						
217	17	RW - TEXT-PARCEL RECORD INFORMATION [CELL-LEGENDS, DIMENSIONS ARROWS, PARCEL BUBBLES]						
218	18	RW - TEXT-SUBDIVISION NAME-BOOK & PAGE						
219	19	RW - TEXT - ROAD NAMES						
220	20	RW - LINE-EXISTING CENTERLINE [CELL-LABELS, STANDARD ABBREVIATIONS]						
221	21	RW - CELL-EXISTING CURVE DATA						
222	22	RW - LINE-DITCH RIVER [CELL-STANDARD ABBREVIATIONS]						
223	23	RW - TEXT-DITCH RIVER						
225	25	RW - TEXT-STATE ROUTE-INTERSTATE [CELL-DATA SQUARES,						
		PROJECT LABELS]						

		RW - LINE-SURVEY CENTERLINE [CELL-LABELS, LINES, STANDARD
226	26	ABBREVIATIONS]
227	27	RW - LINE-CONSTRUCTION CENTERLINE [CELL-LABELS, LINES, STANDARD
221	27	ABBREVIATIONS]
228	28	RW - CELL-NEW CURVE DATA, STANDARD ABBREVIATIONS
229	29	RW - LINE-EXISTING RIGHT OF WAY-NEW DE-NEW SE [CELL- LEGEND, LABELS, STD. ABR.]
230	30	RW - LINE-NEW RIGHT OF WAY-NEW DE-NEW SE [CELL-LEGEND, LABELS, STD. ABR.]
231	31	RW - LINE-EXISTING ACCESS [CELL-STD. ABR.]
232	32	RW - LINE-NEW ACCESS [CELL-STD. ABR.]
233	33	RW - LINE-ACTIVE POINT
234	34	RW - LINE-PROPERTY-SUBDIVISION BOUNDARY-LOT-MINING CLAIM [CELL-STD. ABR.]
246	46	RW - TEXT-NEW R/W BEARINGS & DISTANCES-NEW PLUS/OUTS- DIMENSION TABLES [CELL-DATA CIRCLE, STD. ABR.]
248	48	RW - LINE-NEW DRAINAGE STRUCTURES [FROM DESIGN CONSULTANT]
250	50	RW - CELL-PLAN SHEET, STD. ABR.
254	54	RW - CELL-LOGO, IN-HOUSE LABEL
257	57	RW - CELL-SHEET OUTLINE
259	59	RW - LINE-CROSS HATCHING-SPECIAL DETAILING TO ENHANCE READABILITY [CELL-DOT PATTERN]
262	62	RW - PLAN SHEET TEXT NODES [CELL-PLAN SHEET, STAR, REVISION BLOCK]
263	63	RW - PLAN SHEET BORDER [CELL-PLAN SHEET, REVISION BLOCK, BIA SHEET]
264	64	RW - LINE-GLO LOT
265	65	RW - LINE 1/16 LOT
266	66	RW - LINE-TEMPORARY CONSTRUCTION EASEMENT
267	67	RW - LINE/TEXT-MATCH LINE AND TEXT
270	70	RW - TEXT-STATION VALUES ALONG CENTERLINES
271	71	RW - TEXT-CITY OF, STATE PARKS, COUNTY, RESERVATION, FOREST
272	72	RW - TEXT-SURVEY-EXISTING CENTERLINE BEARINGS-P.C.
273	73	RW - TEXT-ALL SCHEDULE B
274	74	RW - TEXT-CONSTR CENTERLINE BEARINGS-P.C., P.T., S.C., ETC. CALLOUTS
275	75	RW - TEXT-DATA TABLES-PLUS & OUT TABLES
290	90	RW - MISC. ITEMS NOT OTHERWISE NOTED ON OTHER LEVELS
295	95	RW - WORK-1 (NO PLOT)
296	96	RW - WORK-2 (NO PLOT)
297	97	RW - WORK-3 (NO PLOT)
298	98	RW - WORK-4 (NO PLOT)
299	99	RW - WORK-5 (NO PLOT)
300-399		ROADWAY + LEGACY
-		

	1					
301	0	RDWY - SAW CUT LINES				
302	0	RDWY - TEXT FOR LEVEL 301				
303	33	RDWY - INROADS REFERENCE LINE [NO PLOT]				
304	34	RDWY - TEXT FOR LEVEL 303 [NO PLOT]				
329 29		RDWY - EXISTING RIGHT OF WAY LINES				
348	48	RDWY - MAJOR BELOW GROUND DRAINAGE ITEMS - BRIDGES, BOX CULVERTS, TUNNELS, RETAINING WALLS, PUMP HOUSES, MAJOR CHANNELS, PIPES				
349	RDWY - MAJOR ABOVE GROUND DRAINAGE ITEMS - BRIDGES, BOX CULVERTS, TUNNELS, RETAINING WALLS, PUMP HOUSES, MAJOR CHANNELS, PIPES					
364	<u> </u>					
400-499		TRAFFIC - STAY WITH LEGACY LEVELS (0-63)				
500-599		BRIDGE - STAY WITH LEGACY LEVELS (0-63)				
600-699		ROADSIDE + LEGACY (BETA)				
609	9	ROADSIDE - HARDSCAPE AND ARCHTECTURE DESIGN				
627	27	ROADSIDE - PERMENENT EROSION/SEDIMENT CONTROL AND WATER QUALITY PROTECTION BMP'S				
633	33	ROADSIDE - LANDSCAPE IRRIGATION DESIGN				
		ROADSIDE - TEMPORARY EROSION/SEDIMENT CONTROL AND WATER				
634	34	QUALITY PROTECTION BMP'S				
635	35	ROADSIDE - LANDSCAPE IRRIGATION MAINLINES				
		ROADSIDE - LANDSCAPE ARCHITECTURE AND				
655	55	ENVIRONMENTAL/ECOLOGICAL AND WATER QUALITY DESIGN				
656	56	ROADSIDE - TEXT AND DIMENSIONS FOR LANDSCAPE ARCHITECTURE, ENVIRONMENTAL/ECOLOGICAL AND WATER QUALITY DESIGN				
657 57		ROADSIDE - LANDSCAPE ARCHITECTURE AND ENVIRONMENTAL/ECOLOGICAL DESIGN-SHRUBS, FORBS, GRASSES AND GROUND COVER				
659	59	ROADSIDE - LANDSCAPE ARCHITECTURE AND ENVIRONMENTAL/ECOLOGICAL DESIGN CACTI				
· ·		ROADSIDE - SEEDING AND REVEGETATION				
700-799	1	UTILITIES + LEGACY				
700-733	42	EXIST. POWER (UNDERGROUND)				
702	42	EXIST TEXT POWER (UNDERGROUND)				
703	142	NEW POWER (UNDERGROUND)				
704	142	NEW TEXT POWER (UNDERGROUND)				
705	17	EXIST GAS				
706	17	EXIST TEXT FOR EXISTING GAS				
707	117	NEW GAS				
708	117	NEW TEXT FOR NEW GAS				
709	43	EXIST TRAFFIC POWER				
710	43	EXIST TEXT FOR TRAFFIC POWWER				
711	143	NEW TRAFFIC POWER				
712 143		NEW TEXT FOR TRAFFIC POWER				

713	95	EXIST TELEPHONE
714	95	EXIST TEXT FOR TELEPHONE
715	195	NEW TELEPHONE
716	195	NEW TEXT FOR TELEPHONE
717	95	EXIST TV
718	95	EXIST TEXT FOR TV
719	195	NEW TV
720	195	NEW TEXT FOR TV
721	65	EXST SEWER, STORM DRAIN
722	65	EXSIT TEXT SEWER, STORM DRAIN
723	165	NEW SEWER, STORM DRAIN
724	165	NEW TEXT FOR SEWER, STORM DRAIN
725	38	EXIST WATER
726	38	EXSIT TEXT FOR WATER
727	138	NEW WATER
728	138	NEW TEXT FOR WATER
729	188	EXIST IRRIGATION
730	188	EXIST TEXT FOR IRRIGATION
731	188	NEW IRRIGATION
732	188	NEW TEXT FOR IRRIGATION
733	0	UNKNOWN UTILITY
734	0	TEXT FOR UNKNOWN UTILITY
735	95	EXIST FREEWAY MANAGEMENT SYSTEM
736	95	EXIST TEXT FOR FREEWAY MANAGEMENT SYSTEM
737	195	NEW FREEWAY MANAGEMENT SYSTEM
738	195	NEW TEXT FOR FREEWAY MANAGEMENT SYSTEM
739	100	VACANT LEVEL FOR PROJECT SPECIFIC DATA
740	100	VACANT LEVEL FOR PROJECT SPECIFIC DATA
RDWY-WORK-1	95	WORKING LEVEL (NO PLOT)
RDWY-WORK-2	95	WORKING LEVEL (NO PLOT)
RDWY-WORK-3	95	WORKING LEVEL (NO PLOT)
RDWY-WORK-4	95	WORKING LEVEL (NO PLOT)
RDWY-WORK-5	95	WORKING LEVEL (NO PLOT)
TR-WORK-1	95	WORKING LEVEL (NO PLOT)
TR-WORK-2	96	WORKING LEVEL (NO PLOT)
TR-WORK-3	97	WORKING LEVEL (NO PLOT)
TR-WORK-4	98	WORKING LEVEL (NO PLOT)
TR-WORK-5	99	WORKING LEVEL (NO PLOT)
900-999		RESERVED FOR MATERIALS

Note: The full Dictionary can be found <u>here</u>.

490 Computer Aided Design and Drafting (CADD) Requirements (Traffic Design Only)

ADOT shall retain all rights and ownership of all Electronic Files and Hardcopy Deliverables throughout the Design Phases.

General Specifications:

All files to be archived shall conform to ADOT drafting and CADD standards (for ADOT CADD standards, Technical Bulletins, and additional archiving information contact the corresponding Group/Discipline).

Each consultant shall submit all their files in a folder (with no subfolders) to be archived in a project folder. The current ADOT approved version of MicroStation software will be used. All graphic files shall be provided in MicroStation native design file format (.dgn), and contain data in vector format only. Digital Terrain Model (.dtm) files shall be produced with InRoads/Site/Survey compatible file formats. Raster data shall not be accepted unless otherwise stated by ADOT. For non-photogrammetric disciplines, the use of non-MicroStation vector format and subsequent translation of graphic files to the .dgn format shall not be accepted. No zipped files shall be accepted. All reference files shall be delivered, and are not to be copied into the plan sheet files. All electronic "design sheets" shall include border information and display a fitted "plan view" (in View 1). View 1 shall be the final plot view and as such, all appropriate reference files, levels, view attributes shall be displayed. No vector or raster elements shall be outside the border. ADOT cells and custom line styles are not to be modified unless approved by ADOT.

All final Consultant project Electronic CADD data files shall be delivered on CD-ROM/DVD (multiple CD's/DVD's shall be allowed). All final project documentation, electronic files and hard copy shall be packaged separately, labeled and delivered to the assigned ADOT Project Manager, and/or to the Technical Leader.

All deliverables shall contain an electronic Index of files on the storage media and a letter of transmittal to the ADOT designated areas and all CD's/DVD's must be labeled with the information stated below:

Identification Label for CD and Case:

Prepared By:

Federal Project Number:

Route:

Milepost (Beginning/Ending):

Prefix (Rt, Co, MP) and TRACS Number:

Project Name:

Creation Date:

Disc (#) of (total #)

In addition to the requirements stated above in the General Specifications, all designers of ADOT projects shall provide the following information requested by the individual areas. If unclear about items needed for your project, please contact the Project Manager.

Traffic Engineering:

Upon **Final Design Approval** for any and all work that involves Traffic Engineering/Design, the Traffic Engineering Group requires that the following CADD related deliverables be submitted to the Primary Project Manager as indicated in the General Specifications. In addition, a copy of the Letter of Transmittal indicating all Traffic related deliverables submitted to ADOT shall be forwarded to the Traffic Engineering Project Manager for approval.

- 1. All Design files associated with Traffic Design, including Traffic Signal, Signing, Pavement Marking, Traffic Control, Pre-Design, HES Projects, and Permit Designs, shall be submitted in ADOT's current version of MicroStation 2D format (.DGN)(2D).
- 2. All sign designs/formats shall be submitted in ADOT's current version of sign design software (.sgn).
- 3. All sign summary Excel spreadsheets used to import sign summary data into MicroStation shall be submitted in ADOT's current version of Excel (.xls).

34 Updated: 7/25/2017



	.rsc							
	road way	NAME: ACFC	LEVEL: 17	COLOR: 17	WEIGHT: 2			
		GRAPHIC:						
		DESCRIPTION: ASPHALTIC CO	NCRETE FRICTIO	N COURSE				
	adot	NAME: ARR100_e	LEVEL: 11	COLOR: 11	WEIGHT: O			
		GRAPHIC: ———						
		DESCRIPTION: ABANDONED RAILROAD SC 100						
G		NAME: ARR50_e	LEVEL: 11	COLOR: 11	WEIGHT: O			
R	adot	GRAPHIC:						
A P		DESCRIPTION: ABANDONED RAILROAD SC 50						
Н		NAME: BRKLN_e	LEVEL: 46	COLOR: 63	WEIGHT: O			
<i>I C</i>	traf	GRAPHIC:						
C		DESCRIPTION: 2' × 4' BR	OKEN STRIPE LI	NE				
D E	road way	NAME: Cattle Guard	LEVEL: 42	COLOR: 42	WEIGHT: 3			
F		GRAPHIC:						
I	,	DESCRIPTION: NEW CATTLE GUARD						
N I	adot	NAME: CEHP_e	LEVEL: 15	COLOR: 15	WEIGHT: 4			
7		GRAPHIC:			-			
<i>Ι</i> <i>Ο</i>		DESCRIPTION: CONSTRUCTION EASEMENT HP						
<i>N</i>		NAME: CITY_e	LEVEL: 4	COLOR: 4	WEIGHT: 4			
	adot	GRAPHIC: —						
		DESCRIPTION: CITY LIMITS LINE						
	adot	NAME: CNTR_e	LEVEL: 17	COLOR: 17	WEIGHT: O			
		GRAPHIC: ———						
		DESCRIPTION: LANE AND CL	STRIPING					
Ν	OTES:	Levels, Weights and Colo upon Agency Standards.	rs will vary c	lependent	REVISION DATE			
		For existing traffic ite Graphic Color 17 = yello			. 04-26-10			
		clarity)		STGON TO				



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		NAME: CNTY_e LEVEL: 4 COLOR: 4 WEIGHT: 4							
	adot	GRAPHIC:							
		DESCRIPTION: COUNTY LINE							
		NAME: CONE20_e LEVEL: 42 COLOR: 42 WEIGHT: 2							
	traf	GRAPHIC: • • • • • • • • • • • • • • • • • • •							
		DESCRIPTION: CONES, TUBULAR MARKERS, OR DELINEATORS AT 20' SPACING							
G		NAME: CONE40_e LEVEL: 42 COLOR: 42 WEIGHT: 2							
R	traf	GRAPHIC: • • • • • • • •							
A P		DESCRIPTION: CONES, TUBULAR MARKERS, OR DELINEATORS AT 40' SPACING							
Н		NAME: CONE80_e LEVEL: 42 COLOR: 42 WEIGHT: 2							
[traf	GRAPHIC: • • • •							
C.		DESCRIPTION: CONES, TUBULAR MARKERS, OR DELINEATORS AT 80' SPACING							
D		NAME: corpipe LEVEL: 38 COLOR: 38 WEIGHT: 3							
E F	road	CRAPHIC. THIRTHITHITHITHITHITHITHITHITHITHITHITHITHIT							
<i>[</i>	way	DESCRIPTION: CORRUGATION PATTERN FOR DETAILS							
\bigvee_{τ}		NAME: corrigate LEVEL: 38 COLOR: 38 WEIGHT: 3							
<i>I</i> <i>T</i>	road	GRAPHIC:							
Ι	way	DESCRIPTION: CORRUGATTION SYMBOL SHADING FOR DETAILS							
0		NAME: DIKE_e LEVEL: 13 COLOR: 13 WEIGHT: 0							
\mathcal{N}		GRAPHIC:							
	adot								
		DESCRIPTION: EXISTING DIKE (PHOTOGRAMMETRY)							
	road	NAME: DimLeader LEVEL: 25 COLOR: 25 WEIGHT: 1							
	way	GRAPHIC:							
N I	0.1.0	DESCRIPTION: DIMENSION LINE							
IN	OTES:	Levels, Weights and Colors will vary dependent upon Agency Standards. REVISION DATE							
		For existing traffic items, use Subdued linestyle. 04-26-10 Graphic Color 17 = yellow (shown here in black for clarity)							
		Not to scale.							



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	road way	NAME: DimLeader 2 L	EVEL: 25	COLOR: 25 WI	EIGHT: 1		
		GRAPHIC: DESCRIPTION: DIMENSION LINE					
	adot	NAME: DRT_e	EVEL: 16	COLOR: 16 W	EIGHT: 1		
		GRAPHIC: ————————————————————————————————————					
		DESCRIPTION: EDGE OF MAJOR DIRT ROAD					
G		NAME: DY20PM_e (SEE NOTES) L	EVEL: 46	COLOR: 17 W	EIGHT: O		
R A	traf						
A P		DOUBLE YELLOW WITH 20' RPMS DESCRIPTION: (RPM, INSIDE DOUBLE YELLOW)					
Н		NAME: DY40PM_e (SEE NOTES) L	EVEL: 46	COLOR: 17 W	EIGHT: O		
[[traf						
Ū		DESCRIPTION: (RPM, INSIDE DOUBL	40' RPMS E YELLOW)				
D E	traf	NAME: DY80PM_e (SEE NOTES) L			EIGHT: O		
F		GRAPHIC:					
<i>[N</i>		DESCRIPTION: (RPM, INSIDE DOUBLE YELLOW)					
1		NAME: ExES(L+Side) L					
7	road way	GRAPHIC:					
<i>I O</i>		DESCRIPTION: EXISTING PIPE PROF	ILE - LEF	T SIDE			
<i>N</i>		NAME: ExES(R+Side) L	EVEL: 13	COLOR: 13 W	EIGHT: 1		
	road way	GRAPHIC:					
	3	DESCRIPTION: EXISTING PIPE PROFILE - RIGHT SIDE					
	road way	NAME: Exst Cattleguard L	EVEL: 9	COLOR: 9 WI	EIGHT: 1		
		GRAPHIC:					
		DESCRIPTION: EXISTING CATTLE GU	ARD				
N	IOTES:	: Levels, Weights and Colors wil upon Agency Standards.	l vary de	ependent	REVISION DATE		
		For existing traffic items, us Graphic Color 17 = yellow (sho			04-26-10		
		clarity) Not to scale.		5 . 4 5			



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	road way	NAME: E×	,		COLOR: 22 V				
		GRAPHIC:					·		
		DESCRIPT	DESCRIPTION: EXISTING CONCRETE BOX CULVERT						
		NAME: E×			COLOR: 13 V		1		
		GRAPHIC:				<u></u>			
		DESCRIPT	ESCRIPTION: EXISTING DOUBLE PIPE INSTALLATION						
G		NAME: Ex	***		COLOR: 13 V	م.			
R	road way	GRAPHIC:							
A P	_	DESCRIPT	ION: EXISTING DOUBLE	PIPE INST a l	LLATION (UND	ER 42")	-		
Н		NAME: Ex	st Median Dike	LEVEL: 13	COLOR: 13 V	VE IGHT: 1			
C	road way	GRAPHIC:							
)		DESCRIPT	ION: EXISTING MEDIAN	DIKE					
D F	road	NAME: Ex	st Single		COLOR: 13 V				
F		GRAPHIC:							
[DESCRIPT	ION: EXISTING SINGLE	PIPE INSTAL	LATION				
<i>N I</i>		NAME: Ex	st Single (Small)						
7	road way	GRAPHIC:							
1		DESCRIPT	ION: EXISTING SINGLE	PIPE INSTAL	LATION (UND	ER 42")			
<i>N</i>		NAME: FR	ST_e	LEVEL: 4	COLOR: 4 V	WEIGHT: 4			
	adot	GRAPHIC:	I	ı		ı ———			
		DESCRIPT	ION: FOREST OR RESERV	ATION LINE					
		NAME: GOF	RE20RPM_e	LEVEL: 46	COLOR: 63 V	VEIGHT: O			
	traf	GRAPHIC:							
		DESCRIPT	ION: 12" GORE STRIPE	WITH RPM A	T 20' SPACIN	G			
N	IOTES:		Weights and Colors vency Standards.	vill vary d	ependent	REVISION DA	4TE		
		Graphic	sting traffic items, Color 17 = yellow (s						
		clarity) Not to scal	e.					



		NAME: HDFLN_e	LEVEL: 8	COLOR: 8 WE	EIGHT: 2
	adot	GRAPHIC:			
		DESCRIPTION: HIDDEN STREAM OR	SHORL INE		
		NAME: HDG_e	LEVEL: 7	COLOR: 7 WE	EIGHT: O
	adot	GRAPHIC:			
		DESCRIPTION: EXISTING SHRUB			
G		NAME: HOVBFR_e	LEVEL: 46	COLOR: 46 WE	EIGHT: O
R	traf	GRAPHIC: >	>		>
A P		DESCRIPTION: HOV LANE BUFFER			
Н		NAME: LDS_e	LEVEL: 46	COLOR: 63 WE	EIGHT: O
<i>[</i>	traf	GRAPHIC: - I I -	- : -	- : -	- : -
C		 DESCRIPTION: LANE DROP STRIPIN	١G		
D		NAME: LESL20_e	LEVEL: 46	COLOR: 63 WE	EIGHT: O
E	traf	GRAPHIC:			
1		 Description: left edge line wi	TH RPMS A	T 20' SPACINO	
\bigvee_{I}		NAME: LESL40_e	LEVEL: 46	COLOR: 63 WE	EIGHT: O
<i>I T</i>	traf	GRAPHIC: -	•		
I		 Description: left edge line wi	ITH RPMS A	t 40' spacino	9
<i>O N</i>		NAME: LL40PM_e	LEVEL: 46	COLOR: 63 WE	EIGHT: O
/ V	traf	GRAPHIC: • — • —	• —		• ——
		DESCRIPTION: LANE LINE WITH RF	PMS AT 40'	SPACING	
					EIGHT: O
	traf	GRAPHIC: • — —	• —		
	11 41	DESCRIPTION: LANE LINE WITH RF	- PMS AT 80'	SPACING	-
N	OTES:	Levels, Weights and Colors wi			
		upon Agency Standards. For existing traffic items, L			REVISION DATE 04-26-10
		Graphic Color 17 = yellow (she clarity) Not to scale		in black for	
		1101 10 20012	/ a		1



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		NAME: LLS	5_e	LEVEL: 46	COLOR: 63 V	WEIGHT: O
	traf	GRAPHIC:				
		DESCRIPT	ION: LANE LINE STRIP	ING		
		NAME: LLI	TWLTB_e (SEE NOTES)	LEVEL: 46	COLOR: 17 V	WEIGHT: O
	traf	GRAPHIC:				
		DESCRIPT	ION: STRIPE WITH BRO	KEN YELLOW	BOTTOM LINE	
G		NAME: LL]	TWLTB40_e (SEE NOTES) LEVEL: 46	COLOR: 17 V	WEIGHT: O
R	traf	GRAPHIC:				<u> </u>
A P		DESCRIPT	STRIPE WITH BRO ION: RPMS AT 40' SPA		M LINE	
Н		NAME: LLT	WLTB80_e (SEE NOTES)	LEVEL:46	COLOR: 17 V	WE IGHT: O
<i>[</i>	traf	GRAPHIC:				
		DESCRIPT	STRIPE WITH BROI ION: RPMS AT 80' SPA	KEN YELLOW CING, BOTTO	M LINE	
D E	traf	NAME: LLT	WLTT_e (SEE NOTES)	LEVEL: 46	COLOR: 17 V	WE IGHT: O
F		GRAPHIC:				
I		DESCRIPT	ION: STRIPE WITH BROI	KEN YELLOW	TOP LINE	
<i>N I</i>		NAME: LLT	WLTT40_e (SEE NOTES)	LEVEL: 46	COLOR: 17 V	WE IGHT: O
7	traf	GRAPHIC:				
<i>I O</i>		DESCRIPT	ION: RPMS AT 40' SPA	KEN YELLOW CING, TOP L	INE	
\mathbb{N}		NAME: LLT	WLTT80_e (SEE NOTES)	LEVEL:46	COLOR: 17 V	WEIGHT: O
	traf	GRAPHIC:				
		DESCRIPT	ION: RPMS AT 80' SPA	KEN YELLOW CING, TOP L	INE	
		NAME: MED	_ e	LEVEL:23	COLOR: 23 V	VE IGHT: 1
	adot	GRAPHIC:	─	\rightarrow	 ◇	──
		DESCRIPT	ION: EXISTING MEDIAN	BARRIER		
N	IOTES:	upon Age For exis	Weights and Colors ency Standards. Sting traffic items,	use Subdue	d linestyle.	
		Graphic clarity)	Color 17 = yellow (shown here	in black for	-



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		NAME: MID_e	LEVEL:3	COLOR: 3 WE	EIGHT: 4	
	ado†	GRAPHIC: —————	-\$	 \$		
		DESCRIPTION: MID OR QUARTER	SECTION LIN	E		
		NAME: NACS_e	LEVEL: 32	COLOR: 32 WE	EIGHT: O	
	ado†	GRAPHIC:				
		DESCRIPTION: NEW ACCESS CONT	ROL			
G		NAME: NBNKPT_e	LEVEL:38	COLOR: 38 WE	EIGHT: 3	
R	adot	GRAPHIC: XXXXXXXX	XXXXX	XXXXX	XXXXX	
A P		DESCRIPTION: NEW BANK PROTEC	TION			
H		NAME: NLFCWL_e	LEVEL: 30	COLOR: 30 WE	EIGHT: 3	
	adot	GRAPHIC: X		X		
		DESCRIPTION: NEW LONG FENCE V	WITH LINE			
D	ado†	NAME: NDIKE_e	LEVEL: 38	COLOR: 38 WE	EIGHT: 3	
E		GRAPHIC:				
[DESCRIPTION: NEW DIKE				
<i>N I</i>		NAME: NDRNES_e	LEVEL: 50	COLOR: 50 WE	EIGHT: 3	
T	adot	GRAPHIC:				
<i>I</i> 0		DESCRIPTION: NEW DRAINAGE EAS	SEMENT			
N		NAME: New CBC		COLOR: 48 WE		
	road way	GRAPHIC:				
		DESCRIPTION: NEW CONCRETE BOX	K CULVERT		·	
		NAME: New CBC Ext	LEVEL: 48	COLOR: 48 WE	EIGHT: 3	
	road way	GRAPHIC:				
		DESCRIPTION: NEW CONCRETE BOX	CULVERT E	KTENSION		
N	IOTES:	Levels, Weights and Colors upon Agency Standards.	will vary d	ependent	REVISION DATE	
		For existing traffic items, Graphic Color 17 = yellow (use Subdue	d linestyle.	04-26-10	
		clarity) Not to sca		III DIGCK TOF		
NOT TO Scare.						



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		IAME: New Double LEVEL: 38 COLOR: 38 WEIGHT: 3				
	road way	DESCRIPTION: NEW DOUBLE PIPE INSTALLATION				
	road	IAME: New Double (Small) LEVEL: 38 COLOR: 38 WEIGHT: 7				
	way	DESCRIPTION: NEW DOUBLE PIPE EXTENSION (UNDER 42")				
G R	road	IAME: New Double Ext LEVEL: 38 COLOR: 38 WEIGHT: 3				
AP	way	PESCRIPTION: NEW DOUBLE PIPE EXTENSION				
, Н [road	IAME: New Median Dike LEVEL:38 COLOR:38 WEIGHT:3				
C	way	DESCRIPTION: NEW MEDIAN DIKE				
D E F	road way	IAME: New Single LEVEL:38 COLOR:38 WEIGHT:3				
I		DESCRIPTION: NEW SINGLE PIPE INSTALLATION				
<i>N I T</i>	road	IAME: New Single (Small) LEVEL:38 COLOR:38 WEIGHT:7				
/ 	way	DESCRIPTION: NEW SINGLE PIPE INSTALLATION (UNDER 42")				
0 N	road	IAME: New Single Ext LEVEL:38 COLOR:38 WEIGHT:3				
	way	DESCRIPTION: NEW SINGLE PIPE EXTENSION				
	road	IAME: NewES(L†Side) LEVEL:38 COLOR:38 WEIGHT:3				
	way	DESCRIPTION: NEW PIPE PROFILE - LEFT SIDE				
Z	OTES:	Levels, Weights and Colors will vary dependent upon Agency Standards. For existing traffic items, use Subdued linestyle. Graphic Color 17 = yellow (shown here in black for clarity) Color 17 = yellow (shown here in black for clarity)				
Not to scale.						



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	road	NAME: NewES(R+Side)			WEIGHT: 3
	way	GRAPHIC:			
		DESCRIPTION: NEW PIPE PROFILE	- RIGHT S	IDE	
		NAME: NFMS_e	LEVEL:737	COLOR: 195	WE IGHT: 3
	ADOT	GRAPHIC: — FMS — —	FMS		—— FMS ———
		DESCRIPTION: NEW FREEWAY MANAG	GEMENT SYST	TEM	
G		NAME: NGL_e	LEVEL: 707	COLOR: 117	WEIGHT: 3
R	adot	GRAPHIC: ——G—	—— G ——		G
A P		DESCRIPTION: NEW GAS LINE			
\mathcal{H}		NAME: NGRL_e	LEVEL:42	COLOR:42	WEIGHT: 3
<i>I C</i>	adot	GRAPHIC:			
		DESCRIPTION: NEW GUARDRAIL LEF	T		
D E	road way	NAME: NGRLAHD	LEVEL: 42	COLOR:42	WE IGHT: 3
F		GRAPHIC:			
[DESCRIPTION: NEW GUARDRAIL LEF	T WITH END	TREATMENT	LEFT AHEAD
N I		NAME: NGRLBACK	LEVEL: 42	COLOR:42	WEIGHT: 3
7	road way	GRAPHIC:			
<i>I O</i>		DESCRIPTION: NEW GUARDRAIL LEF	T WITH END	TREATMENT	LEFT BACK
\mathbb{N}		NAME: NGRLEND	LEVEL: 42	COLOR:42	WEIGHT: 3
	road way	GRAPHIC:	• • •		
		DESCRIPTION: NEW GUARDRAIL LE	FT WITH EN	D TREATMEN	TS
		NAME: NGRR_e	LEVEL:42	COLOR:42	WE IGHT: 3
	adot	GRAPHIC:			
		DESCRIPTION: NEW GUARDRAIL RIG	SHT		
Ν	IOTES:	Levels, Weights and Colors w upon Agency Standards.	ill vary d	ependent	REVISION DATE
		For existing traffic items, Graphic Color 17 = yellow (s clarity)			



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		NAME: NGRRAHD		COLOR:42 W	
	road way	GRAPHIC:			• • •
		DESCRIPTION: NEW GUA	RDRAIL RIGHT WITH EN	D TREATMENT	RIGHT AHEAD
		NAME: NGRRBACK	LEVEL:42	COLOR: 42 WE	EIGHT:3
	road way	GRAPHIC:			
		DESCRIPTION: NEW GUA	RDRAIL RIGHT WITH EN	D TREATMENT	RIGHT BACK
G		NAME: NGRREND	LEVEL:42	COLOR:42 W	EIGHT:3
R	road way	GRAPHIC:			
A P		DESCRIPTION: NEW GUA	RDRAIL RIGHT WITH EN	D TREATMENTS	
Н		NAME: NIRDC_e	LEVEL:731	COLOR:188 W	EIGHT:3
<i>I C</i>	ado†	GRAPHIC: ===IR====	IR		=IR====
		DESCRIPTION: NEW CON	CRETE IRRIGATION DIT	СН	
D E	adot	NAME: NIRDE_e	LEVEL: 731	COLOR:188 W	EIGHT:3
F		GRAPHIC:IR	IR		
Ι		DESCRIPTION: NEW IRR	IGATION DITCH EARTH		
N I		NAME: NIRL_e	LEVEL: 731	COLOR:188 W	EIGHT: 3
T	adot	GRAPHIC: ——IR——	IR		—IR———
<i>I O</i>		DESCRIPTION: NEW IRR	IGATION LINE		
<i>N</i>		NAME: NLCLRW_e	LEVEL:30	COLOR:30 W	EIGHT: 3
	ado†	GRAPHIC: ———————			0
		DESCRIPTION: NEW LON	IG CHAIN LINK FENCE (ON RW	
		NAME: NLFCWL_e	LEVEL:30	COLOR:30 W	EIGHT: 3
	adot	GRAPHIC: —	X	X	
		DESCRIPTION: NEW LON	IG FENCE WITH LINE		
N	OTES:	Levels, Weights and upon Agency Standar		ependen†	REVISION DATE
		For existing traffi	c items, use Subdue yellow (shown here		04-26-10
		clarity)	ot to scale.		



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		NAME: NLFCRW_e	EVEL:30 COLOR:30 WEIGHT:3		
	adot	GRAPHIC: X	X		
		DESCRIPTION: NEW LONG FENCE ON	RW		
		NAME: NLWDFE_e	EVEL:30 COLOR:30 WEIGHT:3		
	adot	GRAPHIC: ———			
		DESCRIPTION: NEW LONG WOOD FENC	E WITH LINE		
G		NAME: NLWFRW_e	EVEL:30 COLOR:30 WEIGHT:3		
R	ado†	GRAPHIC: — — — —			
A P		DESCRIPTION: NEW LONG WOOD FENC	E ON RW		
/ Н		NAME: NOHPJL_e	EVEL: 703 COLOR: 142 WEIGHT: 3		
<i>I</i>	adot	GRAPHIC: — OP —	- OP		
		DESCRIPTION: NEW OVERHEAD POWER	/JOINT USE LINE		
D		NAME: NOHTL_e	EVEL: 715 COLOR: 195 WEIGHT: 3		
E F	adot	GRAPHIC: —OT—	-OTOT		
<i>I</i>		DESCRIPTION: NEW OVERHEAD TELEF	PHONE LINE		
$N \mid$ I		NAME: NPJUL_e	EVEL: 703 COLOR: 142 WEIGHT: 3		
\mathcal{T}	adot	GRAPHIC: —P—	_P		
<i>I</i>		DESCRIPTION: NEW UNDERGROUND PO	OWER/JOINT USE LINE		
<i>N</i>		NAME: NRET_e	EVEL: 48 COLOR: 48 WEIGHT: 3		
	adot	GRAPHIC: — ^			
		DESCRIPTION: NEW RETAINING WALL			
		NAME: NRW_e	EVEL: 30 COLOR: 30 WEIGHT: 4		
	adot	GRAPHIC: -	· 		
		DESCRIPTION: NEW RIGHT OF WAY L	. INE		
N	OTES:	Levels, Weights and Colors wi upon Agency Standards.	II vary dependent REVISION DATE		
For existing traffic items, use Subdued linestyle. Graphic Color 17 = yellow (shown here in black for clarity)					



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		NAME: nr	wm		LEVEL: 30	COLOR: 30	WEIGHT: 1
	road way	GRAPHIC:					
		DESCRIPT	FION: NEW RIGHT	OF WAY	MARKERS		
		NAME: NR	WSHT_e		LEVEL: 30	COLOR: 30	WEIGHT: 4
	adot	GRAPHIC:	. – – – – – – – – – – – – – – – – – – –				
		DESCRIPT	FION: NEW SHORT	RIGHT	OF WAY LINE	Ξ	
G		NAME: NS	B_e		LEVEL: 4	COLOR: 4	WEIGHT: 4
R	ado+	GRAPHIC:					
A P		DESCRIPT	TION: NATIONAL,	STATE	BOUNDARY		
H		NAME: NS	CLFC_e		LEVEL: 30	COLOR: 30	WEIGHT: 3
	adot	GRAPHIC:	O-O-O-O-	- oo-			
		DESCRIPT	TION: NEW SHORT	CHAIN	LINK FENCE	WITH LINE	
D E	adot	NAME: NS	DL_e		LEVEL: 38	COLOR: 38	WEIGHT: 3
F		GRAPHIC:					
<i>I</i>		DESCRIPT	FION: NEW STORM	DRAIN I	_ INE		
		NAME: NSF	FC_e		LEVEL: 30	COLOR: 30	WEIGHT: 3
T	adot	GRAPHIC:	-x x x x	XX	- X X X	XXX	- X X X X
10		DESCRIPT	TION: NEW SHORT	FENCE V	WITH LINE		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		NAME: NSS	SL_e		LEVEL: 723	COLOR: 165	WEIGHT: 1
	adot	GRAPHIC:	——S—		S		s
		DESCRIPT	TION: NEW SANITA	ARY SEWI	ER LINE		
		NAME: NT	TL_e		LEVEL: 715	COLOR: 195	WEIGHT: 3
	adot	GRAPHIC:	— T ————		— T ———		- T
		DESCRIPT	TION: NEW UNDERC	GROUND	TELEPHONE/	TELEGRAPH L	INE
	IOTES:		Weights and Co gency Standards		ill vary d	ependent	REVISION DATE
		Graphic	sting traffic Color 17 = ye				
Clarity) Not to scale.							



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		NAME: NTV	/L_e	LEVEL: 719	COLOR: 195	WEIGHT: 3
	adot	GRAPHIC:	— T V —	—— T V ———		— TV ———
		DESCRIPT	ION: NEW UNDERGROUND	TELEVISION	/CABLE LINE	
		NAME: NWL	e	LEVEL: 727	COLOR: 138	WEIGHT: 3
	adot	GRAPHIC:	——	W		W
		DESCRIPT	ION: NEW WATER LINE			
G		NAME: PRM	MID_e	LEVEL: 203	COLOR: 7	WEIGHT: 4
R	rw	GRAPHIC:				
A P		DESCRIPT	ION: PROTRACTED MID S	SECTION LINE	Ξ	
Н		NAME: PRS	SCLN_e	LEVEL: 203	COLOR: 3	WEIGHT: 7
<i>I C</i>	rw	GRAPHIC:			-	
C		DESCRIPT	ION: PROTRACTED TOWNS	SHIP/SEC LIN	NE	
D E	traf	NAME: RES	L20_e	LEVEL: 46	COLOR: 63	WEIGHT: O
F		GRAPHIC:				•
[DESCRIPT	ION: RIGHT EDGE LINE	WITH RPMS A	AT 20' SPAC	ING
N I		NAME: RES	L40_e	LEVEL: 46	COLOR: 63	WEIGHT: O
7	traf	GRAPHIC:	•			<u> </u>
<i>I O</i>		DESCRIPT	ION: RIGHT EDGE LINE	WITH RPMS A	AT 40' SPAC	ING
\mathbb{N}		NAME: RET	e	LEVEL: 22	COLOR: 22	WEIGHT: 1
	adot	GRAPHIC:		/	<u> </u>	
		DESCRIPT	ION: (PHOTOGRAMMETRY-	ING WALL BANK PROTEC	CTION)	
		NAME: RGR	2L_e	LEVEL: 42	COLOR: 42	WEIGHT: 3
	adot	GRAPHIC:				
		DESCRIPT	ION: RECONSTRUCT GUAF	RDRAIL LEFT		
N	OTES:		Weights and Colors ency Standards.	will vary d	lependent	REVISION DATE
		For exis	sting traffic items, Color 17 = yellow (s			e. 04-26-10
		clarity)			TH DIGCK IC	



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		NAME: RGF	RR_e		LEVEL: 42	COLOR: 42	WEIGHT: 3
	adot	GRAPHIC:					
		DESCRIPT	ION: RECON	STRUCT GUAF	RDRAIL RIGH	Γ	
		NAME: Rip	orap		LEVEL: 38	COLOR: 38	WEIGHT: 3
	road way	GRAPHIC:	60690690	69696969	36060606	£068068068	20:20:30:30:30:30:30:30:30:30:30:30:30:30:30
	3	DESCRIPT	ION: RIPRA	P MATERIAL	PATTERN		
G		NAME: ROM	(_e		LEVEL: 13	COLOR: 13	WEIGHT: O
R	adot	GRAPHIC:					
A P		DESCRIPT	ION: ROCK	OUTLINE			
Н		NAME: RPM	M20_e		LEVEL: 46	COLOR: 42	WEIGHT: O
<i>[</i>	traf	GRAPHIC:	•	•		•	
		DESCRIPT	ION: RPMS	AT 20' SPA	CING		
D E		NAME: RPM	140_e		LEVEL: 46	COLOR: 42	WEIGHT: O
F	traf	GRAPHIC:	•	•		•	•
[DESCRIPT	ION: RPMS	AT 40' SPA	CING		
N I		NAME: RR1	00_e		LEVEL: 11	COLOR: 11	WEIGHT: O
T	adot	GRAPHIC:					
<i>I O</i>		DESCRIPT	ION: RAILE	ROAD SC 100			
\mathbb{N}		NAME: RR5	50_e		LEVEL: 11	COLOR: 11	WEIGHT: O
	adot	GRAPHIC:					
		DESCRIPT	ION: RAILE	ROAD SC 50			1
		NAME: RWO	CITY_e		LEVEL: 204	COLOR: 4	WEIGHT: 7
	rw	GRAPHIC:		•			• ——
		DESCRIPT	ION: CITY	LIMITS BOU	NDARY LINE		
N	OTES:		Weights a		will vary d	ependent	REVISION DATE
		For exi	sting trat	fic items,	use Subdue shown here	d linestyle	e. 04-26-10
		clarity)	Not to sca		THE DIGCK TO	



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		NAME: RWCNTY_e	LEVEL: 204	COLOR: 4	WEIGHT: 7
	rw	GRAPHIC:		_	
		DESCRIPTION: COUNTY LINE			
		NAME: RWCUT_e	LEVEL:varies	COLOR: 227	WEIGHT: O
	rw	GRAPHIC: ————————————————————————————————————	- C	- C	C ———
		DESCRIPTION: CUT SLOPE LIM	IT LINE		
G		NAME: RWEXTOPO_e	LEVEL:varies	COLOR: 227	WEIGHT: O
R	rw	GRAPHIC:			
A P		DESCRIPTION: EXISTING TOPO	LINE		
Н		NAME: RWFEN1_e	LEVEL:varies	COLOR: 227	WEIGHT: O
	rw	GRAPHIC: X	X	X	X
		DESCRIPTION: EXISTING FENC	E LINE (1)		
D	rw	NAME: RWFILL_e	LEVEL:varies	COLOR: 227	WE IGHT: 0
E F		GRAPHIC: —— F	- F	F	F
[DESCRIPTION: FILL SLOPE LIM	MIT LINE		
N I		NAME: RWFRCI_e	LEVEL: 204	COLOR: 4 WE	IGHT: 7
<i>T</i>	rw	GRAPHIC: — • —	—— I —	•	
[DESCRIPTION: FOREST-CITY LI	MIT LINE		
0 N		NAME: RWFRST_e	LEVEL: 204	COLOR: 4 WE	IGHT: 7
	rw	GRAPHIC: — —	—— I —		
		DESCRIPTION: FOREST-RESERVA	ATION LINE		
		NAME: RWLGB_e	LEVEL: 204	COLOR: 4 WE	IGHT: 7
	rw	GRAPHIC: — • • —	•		 • •
		 DESCRIPTION: LAND GRANT BOL	INDARY LINE		
N	OTES:	Levels, Weights and Color upon Agency Standards.	s will vary d	ependent	REVISION DATE
		For existing traffic item	s, use Subdue	d linestyle.	04-26-10
		Graphic Color 17 = yellow clarity) Not to se		in Diack for	
		1101 10 0			



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		NAME: RWMC_e	LEVEL: 234 COLOR: 34 WEIGHT: 3	
	rw	GRAPHIC: — M —	М — — М	— м -
		DESCRIPTION: MINING CLAIM	LINE	
		NAME: RWMEAN_e	LEVEL: 234 COLOR: 34 WEIGHT: 3	
	rw	GRAPHIC:II		<u> </u>
		DESCRIPTION: MEANDER LINE		
G		NAME: RWMID_e	LEVEL: 203 COLOR: 7 WEIGHT: 4	
R	rw	GRAPHIC: — -		
A P		DESCRIPTION: MID SECTION L	INE	
Н		NAME: RWNAC_e	LEVEL: 232 COLOR: 32 WEIGHT: 3	
[rw	GRAPHIC: TITTITITI		$\top \top \top$
C		DESCRIPTION: NEW ACCESS CO	NTROL LINE	
DF	rw	NAME: RWNSB_e	LEVEL: 204 COLOR: 4 WEIGHT: 7	
E F		GRAPHIC: - — —		
I		DESCRIPTION: NATIONAL OR S	STATE BOUNDARY LINE	
<i>N I</i>		NAME: RWPL_e	LEVEL: 234 COLOR: 34 WEIGHT: 3	
7	rw	GRAPHIC: — — —		
<i>I O</i>		DESCRIPTION: PROPERTY LINE	-	
\mathbb{N}		NAME: RWPLB_e	LEVEL: 234 COLOR: 34 WEIGHT: 3	
	rw	GRAPHIC:		
		DESCRIPTION: LEASE PROPERT	Y LINE	
		NAME: RWRH_e	LEVEL: 229 COLOR: 29 WEIGHT: 3	
	rw	GRAPHIC: —		
		DESCRIPTION: RAILROAD - HI	GHWAY RIGHT OF WAY LINE	
Ν	OTES:	Levels, Weights and Color upon Agency Standards.	rs will vary dependent REVISION	N DATE
		For existing traffic item Graphic Color 17 = yellow clarity)	ns, use Subdued linestyle. 04-26 v (shown here in black for	-10



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		NAME: RWRIVR_e	l	_EVEL: 222	COLOR: 22	WE IGHT: O
	rw	GRAPHIC:				
		DESCRIPTION: DIT	CH - RIVER LIN	E		
		NAME: RWRR_e	l	_EVEL: 229	COLOR: 29	WEIGHT: 3
	rw	GRAPHIC:				
		DESCRIPTION: RAIL	ROAD RIGHT OF	WAY LINE		
G		NAME: RWSCLN_e	l	EVEL: 203	COLOR: 3	WEIGHT: 7
R	rw	GRAPHIC: ——				
A P		DESCRIPTION: PRO	TRACTED TOWNSH	IP/SEC LIN	NE	
Н		NAME: RWSDE1_e	l	EVEL: 229	COLOR: 29	WE IGHT: 3
<i>[</i>	rw	GRAPHIC: -	. — — — — — —			
		DESCRIPTION: EXIS	STING DRAINAGE	EASEMENT	LINE	
D E		NAME: RWSIX_e	l	_EVEL: 265	COLOR: 65	WEIGHT: 3
F	rw	GRAPHIC:				
<i>I</i>		DESCRIPTION: SIXT	EENTH (1/16) L	. INE		
<i>N I</i>		NAME: RWTCE_e	l	_EVEL: 266	COLOR: 66	WEIGHT: 7
T	rw	GRAPHIC:			_	
<i>I O</i>		DESCRIPTION: TCE	LINE			
<i>N</i>		NAME: RWTOTACQ1_e	l	_EVEL:234	COLOR: 34	WEIGHT: 3
	rw	GRAPHIC:				
		DESCRIPTION: TOTA	L ACQUISITION	PROPERTY	LINES	
		NAME: RWTOTACQ2_e	l	_EVEL:234	COLOR: 34	WEIGHT: 3
	rw	GRAPHIC:	**	+ + +	+	* * *
		DESCRIPTION: TOTA	L ACQUISITION	PROPERTY	LINES	• •
N	OTES:	Levels, Weights upon Agency Star		II vary d	ependent	REVISION DATE
		For existing tro				



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		NAME: RWT	RLN_e	LEVEL:203 COLOR:3 V	VE IGHT: 7	
	rw	GRAPHIC:				
		DESCRIPT	ION: TOWNSHIP - RAN	GE LINE		
		NAME: RWX		LEVEL: 231 COLOR: 31		
	rw	GRAPHIC:				
		DESCRIPT	ION: EXISTING ACCES	S CONTROL LINE		
G		NAME: RWX	CL_e	LEVEL: 220 COLOR: 20 V	VE IGHT: 2	
R	rw	GRAPHIC:				
A P		DESCRIPT	ION: EXISTING CENTE	RLINE W/O TICK MARKS		
\mathcal{H}		NAME: RWX	FN1_e	LEVEL: varies COLOR: 227	WEIGHT: O	
	rw	GRAPHIC:	X X	X XX	X	
		DESCRIPT	ION: EXISTING FENCE	LINE (1)		
D	rw	NAME: RWX	FN2_e	LEVEL: varies COLOR: 227	WEIGHT: O	
E		GRAPHIC:	XXXX	-XXXXXXX	XXX	
I		DESCRIPT	ION: EXISTING FENCE	LINE (2)		
$\frac{N}{I}$		NAME: RWX	FN3_e	LEVEL: varies COLOR: 227	WEIGHT: O	
\mathcal{T}	rw	GRAPHIC:	X	X X		
<i>I</i>		DESCRIPTION: EXISTING FENCE LINE (3)				
N		NAME: RWX	RWL_e	LEVEL:229 COLOR:29 V	VE IGHT: 3	
	rw	GRAPHIC:	_			
		DESCRIPT	ION: EXISTING NON-A	DOT RIGHT OF WAY LINE		
		NAME: RWX	RWL_e	LEVEL:229 COLOR:29 V	VE IGHT:6	
	rw	GRAPHIC:		· —		
		DESCRIPT	ION: EXISTING ADOT	RIGHT OF WAY LINE		
N	OTES:		Weights and Colors ency Standards.	s will vary dependent	REVISION DATE	
		Graphic	Color 17 = yellow	s, use Subdued linestyle. (shown here in black for		
		clarity				



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				COLOR: 3	WE IGHT: 4			
	adot	GRAPHIC: ————						
		DESCRIPTION: SECTION LINE						
		NAME:SIXTH_e	LEVEL: 3	COLOR: 3	WEIGHT: 3			
	adot	GRAPHIC: ————						
		DESCRIPTION: SIXTEENTH LINE						
G		NAME: STROB_e	LEVEL: 46	COLOR: 42	WEIGHT: O			
R	traf	GRAPHIC: X X X	X	\times \times \times	XXX			
A P		DESCRIPTION: STRIPE OBLITERATION						
Н		NAME: TCB_e	LEVEL: 42	COLOR: 42	WEIGHT: 1			
	traf	GRAPHIC: <u> \[\frac{1}{2} \fra</u>	, 4, 5 , 4 5 , 4 5 , 4 5 , 					
		DESCRIPTION: TEMPORARY CONCRE	TE BARRIER					
D E	adot	NAME: TCE_e	LEVEL:30	COLOR:30	WEIGHT: 7			
F		GRAPHIC: —— —— —— —— ——						
[DESCRIPTION: TEMPORARY CONSTRI	uction ease	EMENT				
N I		NAME:TOSCUT_e	LEVEL:37	COLOR: 37	WEIGHT: 2			
7	road way	GRAPHIC: —— C —————		— C ———				
<i>I O</i>		DESCRIPTION: SLOPE - TOP OF CUT LINE						
<i>N</i>		NAME:TOSFIL_e	LEVEL:37	COLOR: 38	WEIGHT: 2			
	road way	GRAPHIC: — F		— F ———				
		DESCRIPTION: SLOPE - TOE OF F	ILL					
		NAME:TR_e	LEVEL:3	COLOR: 3	WEIGHT: 4			
	adot	GRAPHIC: ———						
		DESCRIPTION: TOWNSHIP OR RANGI	E LINE					
NOTES: Levels, Weights and Colors will vary dependent upon Agency Standards. For existing traffic items, use Subdued linestyle. Graphic Color 17 = yellow (shown here in black for clarity)					REVISION DATE 04-26-10			



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		NAME: TRE	LN_e		LEVEL:7	COLOR: 7	WEIGHT: O		
	adot	GRAPHIC:		 	\\\\\\	Y	~~~~~		
		DESCRIPT	ION: TREE	LINE					
		NAME:TRL	_ e		LEVEL:16	COLOR: 16	WE IGHT: O		
	adot	GRAPHIC:							
		DESCRIPT	ION: TRAIL	CENTERL INE					
G		NAME: TYP	220_e		LEVEL:42	COLOR: 42	WE IGHT: 2		
R	traf	GRAPHIC:	• •						
A		DESCRIPT	DESCRIPTION: TYPE II BARRICADE AT 20' SPACING						
H		NAME: TYP	240_e		LEVEL:42	COLOR: 42	WE IGHT: 2		
	traf	GRAPHIC:	•		•	•			
		DESCRIPT	ION: TYPE	II BARRICADE	E AT 40' SF	PACING			
DE		NAME: TYP	280_e		LEVEL:42	COLOR: 42	WE IGHT: 2		
F	traf	GRAPHIC:	•		•		•		
		DESCRIPT	DESCRIPTION: TYPE II BARRICADE AT 80' SPACING						
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		NAME: VP2	0_e		LEVEL:42	COLOR: 42	WE IGHT: 2		
7	traf	GRAPHIC:	A A	A A	A A	A A	A A A		
$\begin{bmatrix} I \\ O \end{bmatrix}$		DESCRIPTION: VERTICAL PANEL AT 20' SPACING							
\ \ \ \ \ \		NAME: VP4	0_e		LEVEL: 42	COLOR: 42	WE IGHT: 2		
	traf	GRAPHIC:	A	A	A	A	A A		
		DESCRIPT	ION: VERT	ICAL PANEL A	T 40' SPAC	ING			
		NAME: VP8	0_e		LEVEL: 42	COLOR: 42	WE IGHT: 2		
	traf	GRAPHIC:	A		•		A		
		DESCRIPT	ION: VERT	ICAL PANEL	AT 80' SPA	CING	_		
١	NOTES:		Weights ency Stan	and Colors dards.	will vary	dependent	REVISION DATE		
		Graphic	Color 17	ffic items, = yellow(s					
Not to scale.									



	. 1 50				
		NAME: XACS_e	LEVEL: 31	COLOR: 31 WE	EIGHT: O
	adot	GRAPHIC:			
		DESCRIPTION: EXISTING ACCESS	CONTROL		
		NAME: XBNKPT_e	LEVEL: 13	COLOR: 13 WE	EIGHT: 1
	adot	GRAPHIC: XXXXXXXXX	XXXXX	XXXXXX	X X X X X X
		DESCRIPTION: EXISTING BANK PR	ROTECTION		
G		NAME: XDAM_e	LEVEL: 13	COLOR: 13 WE	EIGHT: 1
R	ado†	GRAPHIC:			
A		' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	NTERLINE		1 1
P H				001.00 5 195	- LOUT - 4
			LEVEL: 5	COLOR: 5 WE	: IGHI: 4
C	ado†	GRAPHIC:	— - - - — - т		т
		DESCRIPTION: EXISTING DEPRESS	SED INDEX CO	NTOUR LINE	
D	adot	NAME: XDIKE_e	LEVEL: 13	COLOR: 13 WE	EIGHT: 1
E		GRAPHIC:			
[DESCRIPTION: EXISTING DIKE			
N 		NAME: XDMCL_e	LEVEL: 6	COLOR: 6 WE	EIGHT: O
T	adot	GRAPHIC:			T
<i>I</i> 0		DESCRIPTION: EXISTING DEPRESS	SED INTERMED	IATE CONTOUR	LINE
N		NAME: XDRNES_e	LEVEL: 15	COLOR: 15 WE	EIGHT: 1
	adot	GRAPHIC: ————————————————————————————————————	_		
		DESCRIPTION: EXISTING DRAINAG	GE EASEMENT		
		NAME: XDY220M_e (SEE NOTES)	LEVEL: 46	COLOR: 17 WE	EIGHT: O
	traf	GRAPHIC:	: :	+ +	: : :
		DESCRIPTION: (2 RPMS OUTSIDE	ITH 20' RPMS	S ′F ∩W)	
N	IOTES:	Levels, Weights and Colors			DEVICTOR DATE
		upon Agency Standards. For existing traffic items,			REVISION DATE 04-26-10
		Graphic Color 17 = yellow (clarity)		in black for	
i .		NOT TO 80A	1 C		1



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		NAME: XDY240M_e (SEE NOTES)		
	traf	GRAPHIC: DOUBLE YELLOW W DESCRIPTION: (2 RPMS OUTSIDE	ITH 40' RPMS	:
			LEVEL: 13 COLOR: 13 WE	
	adot	GRAPHIC: EXISTING EARTH DESCRIPTION: (PHOTOGRAMMETRY	IDDICATION DITCH	>
G			LEVEL: 705 COLOR: 17 WE	EIGHT: 1
R	adot	GRAPHIC: —— G ———	G	— G ———
A P		DESCRIPTION: EXISTING GAS LI	NE	
Н		NAME: XGRL_e	LEVEL: 23 COLOR: 23 WE	EIGHT: 1
<i>[C</i>	adot	GRAPHIC:		
		DESCRIPTION: EXISTING GUARDR	AIL, LEFT	
D E		NAME: XGRR_e	LEVEL: 23 COLOR: 23 WE	EIGHT: 1
F		GRAPHIC:		
<i>[</i>		DESCRIPTION: EXISTING GUARDR	AIL, RIGHT	
/ v		NAME: XHDICL_e	LEVEL: 5 COLOR: 5 WE	EIGHT: 4
<i>T</i>	adot	GRAPHIC: — — — — — —		
<i>I O</i>		DESCRIPTION: EXISTING HIDDEN	DEPRESSED INDEX CONTOUR	LINE
\mathbb{N}		NAME: XHDMCL_e	LEVEL: 6 COLOR: 6 WE	EIGHT: O
	adot	GRAPHIC: ——————		
		DESCRIPTION: EXISTING HIDDEN	DEPRESSED INTERMEDIATE	CONTOUR LINE
		NAME: XHEDIT_e	LEVEL: 13 COLOR: 13 WE	EIGHT: 1
	adot	GRAPHIC:		>
		DESCRIPTION: EXISTING HIDDEN		PHOTOGRAMMETRY)
N	OTES:	upon Agency Standards.		REVISION DATE
ì		For existing traffic items, Graphic Color 17 = yellow (clarity)		04-26-10
		Not to sca	le.	



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		NAME: XIRDC_e	LEVEL: 13 COLOR: 13	WEIGHT: 1
	adot	GRAPHIC: ====================================	IR	IR
		DESCRIPTION: EXISTING CONCRETE	E IRRIGATION DITCH	
		NAME: XIRDE_e	LEVEL: 13 COLOR: 13	WEIGHT: 1
	adot	GRAPHIC: ===IR===========	IR=	IR=
		DESCRIPTION: EXISTING IRRIGAT	ION DITCH, EARTH	
G		NAME: XIRL_e	LEVEL: 13 COLOR: 13	WEIGHT: 1
R	adot	GRAPHIC: ——IR———	—IR—————	—IR
A P		DESCRIPTION: EXISTING IRRIGAT	ION LINE	
\mathcal{H}		NAME: XLBW_e	LEVEL: 29 COLOR: 29	WEIGHT: O
<i>[</i>	adot	GRAPHIC:		
		DESCRIPTION: EXISTING LONG BLO	OCK WALL	
D E	adot	NAME: XLCLRW_e	LEVEL: 29 COLOR: 29	WEIGHT: 1
F		GRAPHIC: ————————————————————————————————————		<u> </u>
I		DESCRIPTION: EXISTING LONG CHA	AIN LINK FENCE ON R/V	V
<i>N I</i>		NAME: XLCLWL_e	LEVEL: 29 COLOR: 29	WEIGHT: 1
\mathcal{T}	adot	GRAPHIC:		-o
<i>I O</i>		DESCRIPTION: EXISTING LONG CHA	AIN LINK FENCE WITH L	. INE
\mathbb{N}		NAME: XLFCRW_e	LEVEL: 29 COLOR: 29	WEIGHT: 1
	adot	GRAPHIC:	X	
		DESCRIPTION: EXISTING LONG FER	NCE ON R/W	
		NAME: XLFCWL_e	LEVEL: 29 COLOR: 29	WEIGHT: 1
	adot	GRAPHIC:		
		DESCRIPTION: EXISTING LONG FEN	NCE WITH LINE	
	NOTES:	S: Levels, Weights and Colors w upon Agency Standards. For existing traffic items, of Graphic Color 17 = yellow (sl	use Subdued linestyle	REVISION DATE 04-26-10
		clarity)		



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		NAME: XLL	RPM_e	LEVEL: 46	COLOR: 63	WEIGHT: O	
	traf	GRAPHIC:	0000	0000	0000	• 0000	
		DESCRIPT	ION: RPM LANE LIN	Ε			
		NAME: XLW	/DFE_e	LEVEL: 29	COLOR: 29	WEIGHT: 1	
	adot	GRAPHIC:					
		DESCRIPT	ION: EXISTING LON	G WOOD FENCE WI	ITH LINE		
G		NAME: XLV	VFRW_e	LEVEL: 29	COLOR: 29	WEIGHT: 1	
R	adot	GRAPHIC:				-0	
A P		DESCRIPT	ION: EXISTING LON	G WOOD FENCE ON	N R∕W		
Н		NAME: XOH	HPJL_e	LEVEL: 701	COLOR: 42	WEIGHT: 1	
<i>I C</i>	ado†	GRAPHIC:	— OP — —			- OP	-
		DESCRIPT	ION: EXISTING OVE	RHEAD POWER/JOI	INT USE LIN	E	
D	adot	NAME: XOH	HTL_e	LEVEL: 713	COLOR: 95	WEIGHT: 1	
E F		GRAPHIC:	— oT — —	OT		— OT ———	
I		DESCRIPT	ION: EXISTING OVE	RHEAD TELEPHONE	LINE		
N I		NAME: XOH	HTV_e	LEVEL: 717	COLOR: 95	WEIGHT: 1	
<i>T</i>	adot	GRAPHIC:	OTV	OTV		— OTV ———	
<i>I O</i>		DESCRIPT	ION: EXISTING OVE	RHEAD TELEVISIO	ON LINE		
<i>N</i>		NAME: XP	JUL_e	LEVEL: 701	COLOR: 42	WEIGHT: 1	
	adot	GRAPHIC:	— P — — —	P ———		P	
		DESCRIPT	ION: EXISTING UND	ERGROUND POWER/	JOINT USE	LINE	
		NAME: XPN	MR50_e	LEVEL: 11	COLOR: 11	WEIGHT: O	
	adot	GRAPHIC:					
		DESCRIPT	ION: EXISTING RAI	_ROAD - PHOTOGR	RAMMETRY VE	RSION	
Ν	OTES:	upon Ag For exi	Weights and Colc ency Standards. sting traffic ite	ms, use Subdue	d linestyle		
		Graphic clarity	Color 17 = yello	w (shown here	in black fo		



	.rsc	
		NAME: XRW_e LEVEL: 29 COLOR: 29 WEIGHT: 1
	adot	GRAPHIC: ————————————————————————————————————
		DESCRIPTION: EXISTING RIGHT OF WAY LINE
		NAME: xrwm LEVEL: 29 COLOR: 29 WEIGHT: O
	road way	GRAPHIC:
		DESCRIPTION: EXISTING RIGHT OF WAY MARKERS
G		NAME: XSCLFC_e LEVEL: 29 COLOR: 29 WEIGHT: 1
R	ado+	GRAPHIC:
A P		DESCRIPTION: EXISTING SHORT CHAIN LINK FENCE WITH LINE
Н		NAME: XSD_e LEVEL: 13 COLOR: 13 WEIGHT: 1
<i>I C</i>	ado†	GRAPHIC: ——SD——————————————————————————————————
		DESCRIPTION: EXISTING STORM DRAIN
D E	adot	NAME: XSFC_e LEVEL: 29 COLOR: 29 WEIGHT: 1
F		GRAPHIC: -XXXXXXXXXXXXX-
I		DESCRIPTION: EXISTING SHORT FENCE WITH LINE
<i>N I</i>		NAME: XSHBW_e LEVEL: 29 COLOR: 29 WEIGHT: 0
T	adot	GRAPHIC: ————————————————————————————————————
<i>I O</i>		DESCRIPTION: EXISTING SHORT BLOCK WALL
<i>N</i>		NAME: XSRET_e LEVEL: 22 COLOR: 22 WEIGHT: 1
	ado†	GRAPHIC:\-\\-\\-\
		DESCRIPTION: EXISTING SHORT RETAINING WALL
		NAME: XSSL_e LEVEL: 721 COLOR: 65 WEIGHT: 1
	adot	SRAPHIC: — S — — S — — S — — S — — — S
		DESCRIPTION: EXISTING SANITARY SEWER LINE
N	IOTES:	Levels, Weights and Colors will vary dependent upon Agency Standards. REVISION DATE
		For existing traffic items, use Subdued linestyle. 04-26-10 Graphic Color 17 = yellow (shown here in black for clarity)



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	.rsc)					
		NAME: XS	WDFE_e	LEVEL: 29 COLOR: 29 W	EIGHT: 1		
	adot	GRAPHIC:))— —O— —C		
	DESCRIPTION: EXISTING SHORT WOOD FENCE						
		NAME: XTI	LRPMB_e (SEE NOTES)	LEVEL: 46 COLOR: 17 W	EIGHT: O		
	traf	GRAPHIC:	- : - :	- : - :			
		DESCRIPT	FION: TURN LANE WITH F	RPMS			
G		NAME: XTI	LRPMT_e (SEE NOTES)	LEVEL: 46 COLOR: 17 W	EIGHT: O		
R	traf	GRAPHIC:			<u>.</u> .		
A		DESCRIPT	TION: TURN LANE WITH	RPMS			
H		NAME: XT	TL_e	LEVEL: 713 COLOR: 95 W	EIGHT: 1		
	ado†	GRAPHIC:	— T ———	T	- Т		
		DESCRIPT	FION: EXISTING UNDERG	ROUND TELEPHONE/TELEGRAI	PH LINE		
D F	ado+	NAME: XT	VL_e	LEVEL: 717 COLOR: 95 W	EIGHT: 1		
F		GRAPHIC:	— TV ————	T V	- T V		
		DESCRIPT	FION: EXISTING UNDERG	ROUND TELEVISION LINE			
N j		NAME: XW	ALL_e	LEVEL: 29 COLOR: 29 W	EIGHT: 1		
7	adot	GRAPHIC:					
$\begin{bmatrix} I \\ O \end{bmatrix}$		DESCRIPT	TION: EXISTING WALL				
N		NAME: XW	ASH_e	LEVEL: 8 COLOR: 8 W	EIGHT: 2		
	adot	GRAPHIC:					
		DESCRIPT	FION: EXISTING MAJOR Y	WASH OR DRAINAGE CHANNEL WASH, OR EXISTING DRAINA	AGE DITCH		
		NAME: XWI	L_e	LEVEL: 725 COLOR: 38 W	EIGHT: 1		
	adot	GRAPHIC:	—— W ————	W	— w ———		
		DESCRIPT	ΓΙΟΝ: EXISTING WATER	LINE			
\ \ \	IOTES:		Weights and Colors gency Standards.	will vary dependent	REVISION DATE		
			: Color 17 = yellow (use Subdued linestyle. shown here in black for	04-26-10		



	.rsc						
		NAME: PMX	XDICL_e	LEVEL: 5	COLOR: 5	WEIGHT: 4	
	adot	GRAPHIC:	1 1	1 1	ı	1 1	
		DESCRIPT	TION: INDEX DEPRESSIC	N CONTOUR			
		NAME: PMX	XDMCL_e	LEVEL: 6	COLOR: 6	WEIGHT: O	
	adot	GRAPHIC:	1 1		1		
		DESCRIPT	TION: INTERMEDIATE DE	PRESSION CO	UNTOUR		
G		NAME: PMX	XLFCWL_e	LEVEL: 29	COLOR: 29	WEIGHT: O	
R	adot	GRAPHIC:			X		
A P		DESCRIPT	TION: LONG BARBED WIR	E FENCE			
Н		NAME: NF	OT_e	LEVEL: 739	COLOR: 195	WEIGHT: 3	
<i>[</i>	adot	GRAPHIC:	- FOT	FOT		——— F	ОТ
		DESCRIPTION: TELEPHONE FIBER OPTIC (NEW)					
D E		NAME: XF	OT_e	LEVEL: 741	COLOR: 95	WEIGHT: 1	
F	adot	GRAPHIC:	— FOT — —	——— FOT -		——— FOT	
Ι		DESCRIPTION: TELEPHONE FIBER OPTIC (EXISTING)					
N [NAME: NF	0TV_e	LEVEL: 743	COLOR: 195	WEIGHT: 3	
7	ado†	GRAPHIC:	- FOTV -	FC)TV ———		
<i>I</i>		DESCRIPTION: TV FIBER OPTIC (NEW)					
N		NAME: XF	0TV_e	LEVEL: 745	COLOR: 95	WEIGHT: 1	
	adot	GRAPHIC:	— FOTV ———— —	FOT'	V		
		DESCRIPT	TION: TV FIBER OPTIC	(EXISTING)			

NOTES: Levels, Weights and Colors will vary dependent upon Agency Standards.

For existing traffic items, use Subdued linestyle. Graphic Color 17 = yellow (shown here in black for clarity)

Not to scale.

REVISION DATE 04-26-10



CADD STANDARDS LINE STYLE LIBRARY

	.rsc	
		NAME: NOT A CELL LEVEL: 5 COLOR: 5 WEIGHT: 4 LINE CODE: 0
	NA	GRAPHIC:
		DESCRIPTION: EXISTING INDEX CONTOUR LINE (PHOTOGRAMMETRY)
		NAME: NOT A CELL LEVEL: 5 COLOR: 5 WEIGHT: 4 LINE CODE: 7
	NΑ	GRAPHIC:
		DESCRIPTION: EXISTING INDEX CONTOUR LINE (OTHERS)
G		NAME: NOT A CELL LEVEL: 5 COLOR: 5 WEIGHT: 4 LINE CODE: 3
R	NΑ	GRAPHIC:
A		DESCRIPTION: EXISTING HIDDEN INDEX CONTOUR LINE
H		NAME: NOT A CELL LEVEL: 6 COLOR: 6 WEIGHT: 0 LINE CODE: 0
	NΑ	GRAPHIC:
		DESCRIPTION: EXISTING INTERMEDIATE CONTOUR LINE (PHOTOGRAMMETRY)
D	NA	NAME: NOT A CELL LEVEL: 6 COLOR: 6 WEIGHT: 0 LINE CODE: 7
E		GRAPHIC:
1		DESCRIPTION: EXISTING INTERMEDIATE CONTOUR LINE (OTHERS)
<i>N</i>		NAME: NOT A CELL LEVEL: 6 COLOR: 6 WEIGHT: 0 LINE CODE: 3
7	NA	GRAPHIC:
		DESCRIPTION: EXISTING HIDDEN INTERMEDIATE CONTOUR LINE
N		NAME: NOT A CELL LEVEL: 9 COLOR: 9 WEIGHT: 1 LINE CODE: 3
	NΑ	GRAPHIC:
		DESCRIPTION: EXISTING SIDEWALK
		NAME: NOT A CELL LEVEL: 9 COLOR: 9 WEIGHT: 3 LINE CODE: 0
	NΑ	GRAPHIC:
		DESCRIPTION: EXISTING BUILDING (PHOTOGRAMMETRY)
N	OTES:	Levels, Weights and Colors will vary dependent upon Agency Standards. REVISION DATE
		For existing traffic items, use Subdued linestyle. Graphic Color 17 = yellow (shown here in black for clarity)



CADD STANDARDS LINE STYLE LIBRARY

	.rsc						
_	NA	NAME: NOT		LEVEL: 9			
		DESCRIPT	ION: EXISTIN	NG BUILDING (O	THERS)		
	NA	NAME: NOT	A CELL	LEVEL:13	COLOR:13	WEIGHT: 1	LINE CODE: 1
			FXISTIN	G SINGLE PIPE :50 OR SMALLER	INSTALLAT	ION 42" D	IA OR LARGER.
G		NAME: NOT	A CELL				LINE CODE: 1
R A P	NA	GRAPHIC: DESCRIPT	EXISTI ION: SCALE	NG DOUBLE PIPE 1:50 OR SMALLE	INSTALLA	TION 42" [DIA OR LARGER,
<i>H</i>		NAME: NOT	1:50 A CELL	LEVEL:13	COLOR:13	WEIGHT: 1	LINE CODE: 1
C	NΑ	GRAPHIC: DESCRIPT	EXISTIN	IG SINGLE PIPE :50 OR SMALLEF	INSTALLAT	10N 36" D	IA OR SMALLER,
D E	NA	NAME: NOT		LEVEL: 13			
F		GRAPHIC: DESCRIPT	EXISTIN ION: SCALE 1	IG DOUBLE PIPE :50 OR SMALLER	INSTALLAT	ION 36" D	IA OR SMALLER,
<i>N I</i>		NAME: NOT		LEVEL: 16		WEIGHT: 1	LINE CODE: O
<i>T</i>	NΑ	GRAPHIC: DESCRIPT	ION: EXISTIN	NG PAVEMENT ED	GE (PHOTO(GRAMMETRY)	
<i>O N</i>		NAME: NOT		LEVEL: 16			
	NΑ	GRAPHIC: DESCRIPT		NG PAVEMENT EDO			
		NAME: NOT	A CELL	LEVEL: 16	COLOR: 16	WEIGHT: 1	LINE CODE: 5
	NA	GRAPHIC: DESCRIPT		 IG EDGE OF CONC			
N	OTES:	Levels, upon Age	Weights and ency Standar	d Colors will	vary deper	ndent	REVISION DATE
		Graphic	Color 17 =	yellow (shown	here in t	olack for	



CADD STANDARDS LINE STYLE LIBRARY

	.rsc	
		NAME: NOT A CELL LEVEL: 20 COLOR: 20 WEIGHT: 1 LINE CODE: 3
	NA	GRAPHIC:
		DESCRIPTION: EXISTING C/L GRADE, PROFILE
		NAME: NOT A CELL LEVEL: 22 COLOR: 22 WEIGHT: 3 LINE CODE: 0
	NA	GRAPHIC:
		DESCRIPTION: EXISTING BRIDGE (PHOTOGRAMMETRY)
G		NAME: NOT A CELL LEVEL: 22 COLOR: 22 WEIGHT: 1 LINE CODE: 5
R	NA	GRAPHIC:
A P		DESCRIPTION: EXISTING BRIDGE (OTHERS)
H		NAME: NOT A CELL LEVEL: 23 COLOR: 23 WEIGHT: 3 LINE CODE: 0
	NA	GRAPHIC:
		DESCRIPTION: EXISTING CURB, CURB & GUTTER (SCALE 1"=100' AND SMALLER) PHOTOGRAMMETRY
D F	NA	NAME: NOT A CELL LEVEL: 23 COLOR: 23 WEIGHT: 1 LINE CODE: 3
E F I		GRAPHIC:
		DESCRIPTION: EXISTING CURB, CURB & GUTTER (SCALE 1"=100' AND SMALLER) OTHERS
<i>N I</i>		NAME: NOT A CELL LEVEL: 23 COLOR: 23 WEIGHT: 1 LINE CODE: 0
\mathcal{T}	NA	GRAPHIC:
<i>I O</i>		EXISTING CURB, CURB & GUTTER (SCALE 1"=50') DESCRIPTION: AND LARGER) PHOTOGRAMMETRY
\mathbb{N}		NAME: NOT A CELL LEVEL: 23 COLOR: 23 WEIGHT: 1 LINE CODE: 3
	NA	GRAPHIC:
		DESCRIPTION: EXISTING CURB, CURB & GUTTER (SCALE 1"=50' AND LARGER) OTHERS
		NAME: NOT A CELL LEVEL: 27 COLOR: 27 WEIGHT: 6 LINE CODE: 0
	NA	GRAPHIC:
		DESCRIPTION: NEW CENTERLINE GRADE, PROFILE
Ν	OTES:	Levels, Weights and Colors will vary dependent upon Agency Standards. REVISION DATE
		For existing traffic items, use Subdued linestyle. 04-26-10 Graphic Color 17 = vellow (shown here in black for



	.rsc						
	NA	NAME: NOT A CELL LEVEL: 35 COLOR: 35 WEIGHT: 3 LINE CODE: 0					
		DESCRIPTION: NEW PAVEMENT EDGE					
•	NA	NAME: NOT A CELL LEVEL: 38 COLOR: 38 WEIGHT: 3 LINE CODE: 0					
		GRAPHIC: NEW SINGLE PIPE INSTALLATION 42" OR LARGER, SCALE DESCRIPTION: 1:50 OR SMALLER ALL PIPES AT SCALE LARGER THAN 1:50					
G	NA	NAME: NOT A CELL LEVEL: 38 COLOR: 38 WEIGHT: 7 LINE CODE: 0					
R A P		GRAPHIC: DESCRIPTION: NEW SINGLE PIPE INSTALLATION 36" OR SMALLER, SCALE 1:50 OR SMALLER					
$H = \frac{1}{I}$	NA	NAME: NOT A CELL LEVEL: 38 COLOR: 38 WEIGHT: 3 LINE CODE: 0					
C		DESCRIPTION: NEW DOUBLE PIPE INSTALLATION 42" OR LARGER, SCALE 1:50 OR SMALLER ALL PIPES AT SCALE LARGER THAN 1:50					
DE	NA	NAME: NOT A CELL LEVEL:38 COLOR:38 WEIGHT:7 LINE CODE:0					
F		DESCRIPTION: NEW DOUBLE PIPE INSTALLATION 36" OR SMALLER, SCALE 1:50 OR SMALLER					
<i>N I I</i>	NA	NAME: NOT A CELL LEVEL:38 COLOR:38 WEIGHT:3 LINE CODE:0					
<i>T I O</i>		DESCRIPTION: NEW DRAINAGE DITCH					
N		NAME: NOT A CELL LEVEL:38 COLOR:38 WEIGHT:3 LINE CODE:0					
	NA	GRAPHIC: CHANNEL					
-	NA	NAME: NOT A CELL LEVEL:44 COLOR:44 WEIGHT:3 LINE CODE:0					
		GRAPHIC: DESCRIPTION: NEW CURB, CURB & GUTTER (SCALE 1"=100')					
N	OTES:	Levels, Weights and Colors will vary dependent upon Agency Standards. For existing traffic items, use Subdued linestyle. Graphic Color 17 = yellow (shown here in black for clarity) REVISION DATE 04-26-10					



	.rsc						
	NA	NAME: NOT A CELL LEVEL:44 COLOR:44 WEIGHT:3 LINE CODE:0 GRAPHIC:					
_		DESCRIPTION: NEW SIDEWALK					
		NAME: NOT A CELL LEVEL:44 COLOR:44 WEIGHT:3 LINE CODE:0					
	NΑ	GRAPHIC:					
		DESCRIPTION: NEW BUILDING					
G		NAME: NOT A CELL LEVEL:48 COLOR:48 WEIGHT:3 LINE CODE:0					
R	NΑ	GRAPHIC:					
A P H I C D E F I N		DESCRIPTION: NEW BRIDGE					
		NAME: NOT A CELL LEVEL:15 COLOR:15 WEIGHT:7 LINE CODE:0					
	NΑ	GRAPHIC:					
		DESCRIPTION: NEW HWY SLOPE & DRAINAGE EASEMENT R/W ONLY					
	NA	NAME: NOT A CELL LEVEL:230 COLOR:30 WEIGHT:7 LINE CODE:0					
		GRAPHIC:					
		DESCRIPTION: NEW RIGHT OF WAY LINE R/W ONLY					
/V [NA	NAME: NOT A CELL LEVEL:50 COLOR:50 WEIGHT:6 LINE CODE:3					
\mathcal{T}		GRAPHIC:					
1		DESCRIPTION: PROPOSED CONDUIT					
N		NAME: NOT A CELL LEVEL:17 COLOR:17 WEIGHT:2 LINE CODE:7					
	NA	GRAPHIC:					
_		DESCRIPTION: EXISTING CONDUIT					
		NAME: NOT A CELL LEVEL: 38 COLOR: 38 WEIGHT: 7 LINE CODE: 0					
	NΑ	GRAPHIC: -					
		DESCRIPTION: NEW SLOTTED DRAIN					
Ν	OTES:	Levels, Weights and Colors will vary dependent upon Agency Standards. REVISION DATE					
		For existing traffic items, use Subdued linestyle. 04-26-10 Graphic Color 17 = yellow (shown here in black for					
		clarity) Not to scale.					



.rsc									
	NAME: NO	T A CELL		LEVEL: 301	COLOR: O	WE [GHT: 1	LINE	CODE: O	
NA	GRAPHIC:	ION: NEW							
	NAME: NO	T A CELL		LEVEL: 38	COLOR:38	WEIGHT:3	LINE	CODE: O	
NA	GRAPHIC:								
	DESCRIPTION: NEW EMBANKMENT CURB								
	NAME: NO	T A CELL		LEVEL:27	COLOR:27	WEIGHT:6	LINE	CODE: O	
NA	GRAPHIC:								
	DESCRIPTION: NEW CENTERLINE								
	NAME: NO	T A CELL		LEVEL:59	COLOR: 59	WEIGHT: 1	LINE	CODE:5	
NA	GRAPHIC:								
	DESCRIPT	ION: EXI	STING PF	ROFILE-GRO	UNDL INE				
	NAME: NO	T A CELL		LEVEL: 20	COLOR: 2	O WEIGHT:2	LINE	CODE: O	
NA	GRAPHIC:								
	DESCRIPTION: EXISTING CENTERLINE								
	NAME: NO	T A CELL		LEVEL:42	COLOR:42	WEIGHT: 3	LINE	CODE:0	
NA	GRAPHIC:								
	DESCRIPTION: BARRIER, PRIVACY AND SOUND WALLS								
	NAME:			LEVEL:	COLOR:	WE [GHT:	LINE	CODE:	
	GRAPHIC:								
	DESCRIPT	ION:							
	NAME:			LEVEL:	COLOR:	WEIGHT:	LINE	CODE:	
	GRAPHIC:								
	DESCRIPT	ION:							
OTES:		Weights ency Star		ors will \	ary depe	ndent	REVI	SION DAT	
	For exi	sting tra	affic ite	ems, use S ow (shown				4-26-10	
	clarity		Not to			2.30.			



	.rsc							
		NAME: GORE20RPM_e LEVEL: 46 COLOR: 46 WEIGHT: 2						
	traf	GRAPHIC:						
		DESCRIPTION: HIDDEN STREAM OR SHORLINE						
	traf	NAME: GORE40RPM_e LEVEL: 46 COLOR: 46 WEIGHT: 0						
		GRAPHIC:						
		DESCRIPTION: EXISTING SHRUB						
G		NAME: TYP220T2 LEVEL: 42 COLOR: 42 WEIGHT: 0						
R	traf	GRAPHIC: • • • • • • • • • • • • • • • •						
A		DESCRIPTION: TYPE II BARRICADE AT 20' SPACING (2X)						
H		NAME: TYPE240T2 LEVEL: 42 COLOR: 42 WEIGHT: O						
	traf	GRAPHIC: GRAPHIC:						
		DESCRIPTION: TYPE II BARRICADE AT 40' SPACING (2X)						
D	traf	NAME: TYPE280T2 LEVEL: 42 COLOR: 42 WEIGHT: 0						
E		GRAPHIC:						
		DESCRIPTION: TYPE II BARRICADE AT 80' SPACING (2X)						
N J		NAME: CONE20T2 LEVEL: 42 COLOR: 42 WEIGHT: O						
T	traf	GRAPHIC:						
<i>I</i>		DESCRIPTION: CONES, TUBULAR MARKERS, DELINEATORS AT 20' SPACING (2X)						
N		NAME: CONE40T2 LEVEL: 42 COLOR: 42 WEIGHT: O						
	traf	GRAPHIC: • • • • • •						
		DESCRIPTION: CONES, TUBULAR MARKERS, DELINEATORS AT 40' SPACING (2X)						
		NAME: CONE80T2 LEVEL: 42 COLOR: 42 WEIGHT: O						
	traf	GRAPHIC: ◆ • • •						
		DESCRIPTION: CONES, TUBULAR MARKERS, DELINEATORS AT 80' SPACING (2X)						
N	IOTES:	Levels, Weights and Colors will vary dependent upon Agency Standards. REVISION DATE						
		For existing traffic items, use Subdued linestyle. 04-23-14 Graphic Color 17 = yellow (shown here in black for						
		clarity) Not to scale.						



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	.rsc								
	traf	NAME: VP20	Т2	LEVEL: 42	COLOR: 42	WEIGHT: 2			
		GRAPHIC: ▲	A A A A A		A A A				
		DESCRIPTION: VERTICAL PANEL AT 20' SPACING (2X)							
	traf	NAME: VP40	DT2	LEVEL: 42	COLOR: 42	WEIGHT: O			
		GRAPHIC: ▲	A A A	A A	A A	A A A			
		DESCRIPTION: VERTICAL PANEL AT 40' SPACING (2X)							
G		NAME: VP80	DT2	LEVEL: 42	COLOR: 42	WEIGHT: O			
R	traf	GRAPHIC:	A	A	A	A			
A P		DESCRIPTION: VERTICAL PANEL AT 80' SPACING (2X)							
H	road way	NAME: TOSF I	L_TOSTRA	LEVEL:37	COLOR:38	WEIGHT: 2			
$\begin{bmatrix} I \\ C \end{bmatrix}$		GRAPHIC: O	— F ———		— F ———	\bigcirc			
		DESCRIPTION: SLOPE - TOE OF FILL With TOSTRA							
$ D _{F}$	traf	NAME: DY		LEVEL: 42	COLOR: 42	WEIGHT: O			
F		GRAPHIC: =							
<i>I N</i>		DESCRIPTION: DOUBLE YELLOW CENTER LINE							
/ V	traf	NAME:		LEVEL:	COLOR:	WEIGHT: O			
T		GRAPHIC:							
$\begin{vmatrix} I \\ O \end{vmatrix}$		DESCRIPTIO	ON:						
N		NAME:		LEVEL:	COLOR:	WE IGHT:			
	traf	GRAPHIC:							
		DESCRIPTION:							
		NAME:		LEVEL: 46	COLOR: 63	WEIGHT: O			
	traf	GRAPHIC:							
		DESCRIPTIO	ON:						
	IOTES:		Weights and Colors ncy Standards.	s will vary o	dependent	REVISION DATE			
			ing traffic items Color 17 = yellow						