

2.0 General Drawing Information

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2.1 General Drawing Order and Sheet Numbering

Contract plans should be sequenced and numbered in specific order. The normal arrangement and sheet numbering is shown in Table 2-1. Not all of these sections may be present in a given project. When following this format on small projects, several sheets may be largely blank. In this case it may be necessary to combine categories onto sheets, forcing a slight modification of sequence.

** Sheet series noted with an asterisk (on pages 2-3 & 2-4) are numbered separately from within the controlling department.*

Sheet numbering within a series shall be accomplished using number extensions beginning with number 2 (i.e., 2, 2A, 2A-2, 2A-3...). The only letters **not** used are “I” and “O”, to avoid confusion with numerals.

Table 2-1 Drawing Order and Sheet Numbering

SHEET SERIES	SECTION DESCRIPTION	SUBSECTION 1	SUBSECTION 2
1	Title Sheet		Index & Signatures
		Continuation Sheet (1A Series)	Index & Standard Drawings
		Continuation Sheet (1A-2 Series)	Standard Drawings
		Plan Sheet Layout (1B Series)	
		Alignment Data (1C Series)	Roadway Alignment Data
2	Typical Sections		
	Details		
	Traffic Control	Details	
		Detour	
		Traffic Control Plans (Including cross-sections)	
Pipe Data			
3 Thru ?	Plans and Profile	Combined Plans and Profile	
		Alignment Plan	
		General Construction	
		Detour	
		Drainage and Utilities	
		Removal Plans	

Table 2-1 Drawing Order and Sheet Numbering (Cont'd.)

SHT. SERIES	SECTION DESCRIPTION	SUBSECTION 1	SUBSECTION 2	
G	Geo/Hydro/Enviro	Erosion Control - (Sheet Numbering: GA)	Details, Plans	
		Geotechnical Data - (Sheet Numbering: GB)	" "	
		Retaining Walls - (Sheet Numbering: GC)	" "	
		Sound Walls - (Sheet Numbering: GD)	" "	
		Culverts - (Sheet Numbering: GE)	" "	
		Fish Passage - (Sheet Numbering: GF)	" "	
		Temporary Water Management - (Sheet Numbering: GG)	" "	
		Bank Protection - (Sheet Numbering: GH)	" "	
		Stormwater - (Sheet Numbering: GJ)	" "	
		Landslide Correction - (Sheet Numbering: GK)	" "	
		HazMat - (Sheet Numbering: GL)	" "	
		Material Source/Disposal Sites - (Sheet Numbering: GM)	" "	
		Roadside Development - (Sheet Numbering: GN)	Details	Wetland
				Irrigation
				Planting Details
Plan List				
Bid Log				
Construction Details				
Plans	Site Development			
	Contour Grading and Typical Sections (incl. Wetland development and general project areas).			
	Irrigation			
	Planting			
Waterway Enhancement - (Sheet Numbering: GP)	Details, Plans			
Rockfall Mitigation - (Sheet Numbering: GQ)	" "			
NOTE: Sheets can be stacked numerically in each of the above disciplines; however, do not use the letters "I" and "O", to avoid confusion with numerals. Sheet numbering within a series shall be accomplished using number extensions beginning with number 2 (i.e., GA, GA-2, GA-3, GA-4...), and so forth.				
* From Bridge Section	Bridge	(See Bridge Drafting & Design Manual)		
* Drawing No. Required from Technical Service Traffic Section	Traffic	Permanent Pavement Markings (Striping). (Sheet numbering ST and use V-number).	Details	
			Plans	
		Permanent Signing	Details	
			Plans	
			Sign and Post Data Table	
		Illumination Plans	Temporary Illumination and Removal Plans	
			Plans	
			Details	
	Legend			
	Metal Light Poles			

Table 2-1 Drawing Order and Sheet Numbering (Cont'd.)

SHEET SERIES	SECTION DESCRIPTION	SUBSECTION 1	SUBSECTION 2
* Drawing No. Required from Technical Service Traffic Section	Traffic (cont'd)	Signal Plans	Signal Plans (legend and phase diagram)
			Detector Plans (CCTV plans and CCTV Details)
			Existing Utility Plans
			Interconnect Plans
			Temporary Signal Plans
			Ramp Meter Plans
			Variable Message Signs and Miscellaneous Plans)
8 ½ x 11 Sized Plan Sheets follow same numbering as above.	Preservation Plans		

2.2 Text

Table 2-2 CAD Fonts for Contract Plans

FONT	USE/DESCRIPTION	SYMBOLGY	TEXT SIZE		
			1"=50' AS=0.5	1"=100' AS=1.0	1"=200' AS=2.0
24	All existing topography labeling Easement and R/W labeling, stationing & dimensioning, travel lane dimensioning.	CO=3 WT=1	TX=3.15 LS=2	TX=6.3 LS=4.2	TX=12.5 LS=8.33
	All lettering on all construction items.	CO=3 WT=2	TX=3.75 LS=2.5	TX=7.5 LS=5	TX=15 LS=10
	"Beginning" & "End of Project" notation and station equations.	CO=3 WT=5	---	TX=11 LS=7.3	---
2	Stationing, highway or street names and alignment labeling on Traffic Control Plan sheets.	CO=3 WT=1	---	TX=6.25	---
	Subtitle	CO=3 WT=3	TX=6.25	TX=12.5	TX=25
	Highway & street names on plan sheets. Section line label. Section title on cross section. Stationing on profile.	WT=3	TX=6.25	TX=12.5	TX=25
	Stationing, alignment labeling on plan sheets. Match line text. Sheet number.	WT=3	TX=6.25	TX=12.5	TX=25
	Sketch map title (See Chapter 4).				
4	Stationing on typical sections (stack sections). Equation stationing on typical sections.	CO=3 WT=3	---	TX=9.4 LS=6	---
	Stationing on main typical sections.	CO=3 WT=3	---	TX=12.5 LS=8.33	---
33	Township, section & range labeling on plan sheets and on Material Source & Disposal sheets.	CO=3 WT=0	TX=6.25 LS=6.25	TX=12.5 LS=12.5	TX=25 LS=25
43	Sheet titles.	CO=3 WT=2	TH=4.5 TW= Var. 3-4.5 LS=3.5	TH=9 TW= Var. 6-9 LS=7	TH=18 TW= Var. 12-18 LS=14

Note: CAD Fonts for Contract Plans may also be placed by attaching PLANSV8.DGN at the scale appropriate for the scale of the sheet (0.5 for 1"=50', 1.0 for 1"=100', 2.0 for 1"=200') and copying and editing text from the reference file into the active file.

2.3 CAD File Structure

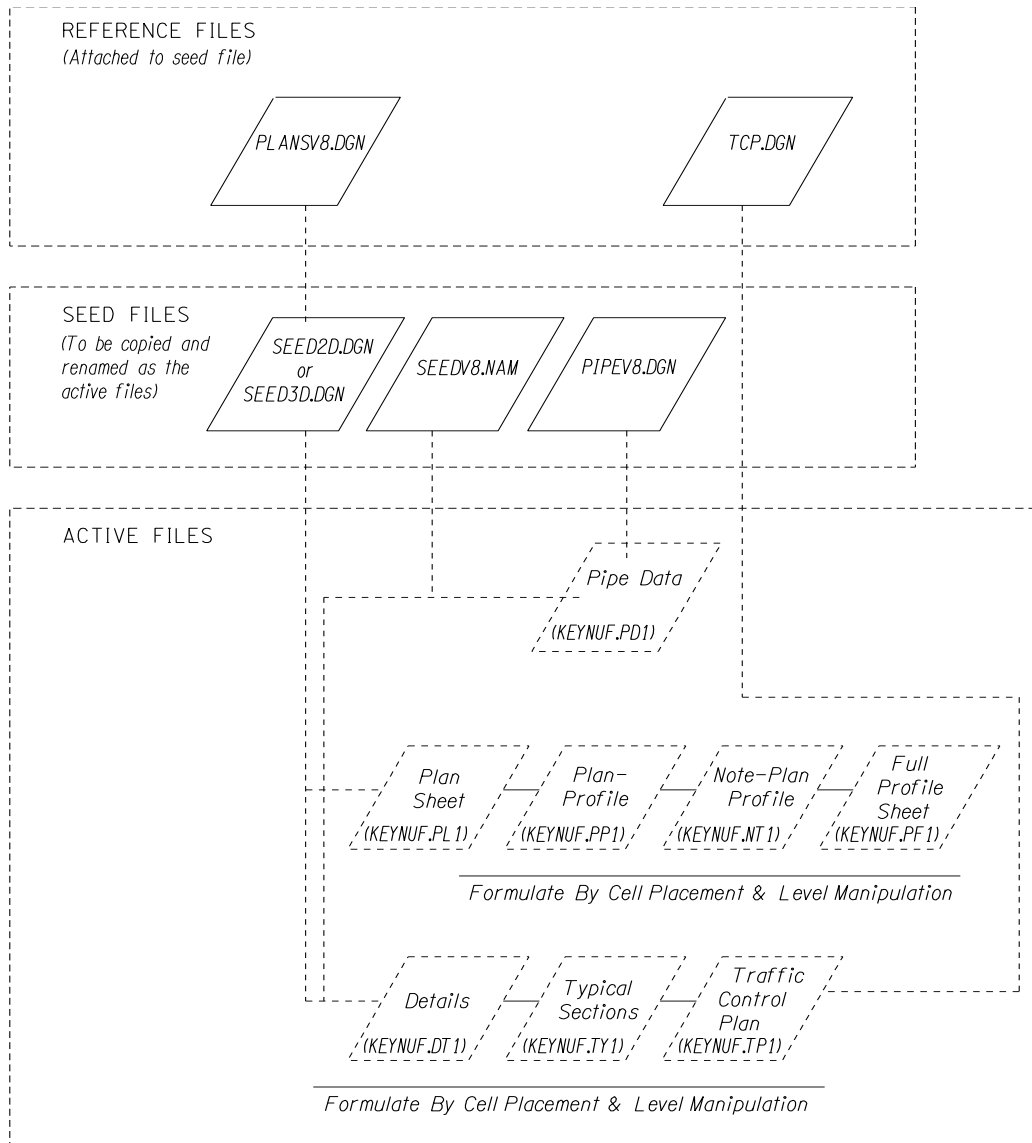
The contract plans CAD file structure is shown in the schematic in Figure 2-1. The seed files that are always included in the first step to produce the *active files* for the working sheets can be located and copied from the ODOT's workspace:

Note: For file naming conventions, see Section 2.4, Volume 1.

Internal ODOT staff http://SCDATA3\ODOT_space\standards\seed
 External <ftp://ftp.odot.state.or.us/isb/appeng/Microstation/Version8/>

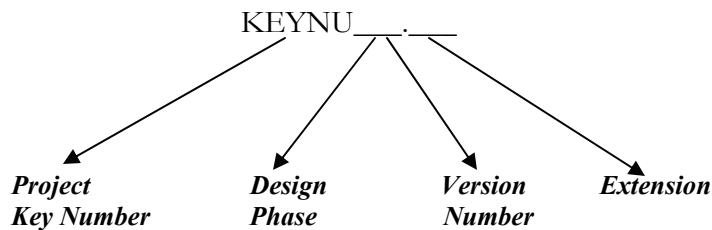
Instructions, including how to create the *active file*, for each type of sheet can be found in the related titled section in Volume 1 of this guide. For example, see Section 10 to produce the pipe data sheets.

Figure 2-1 Road Unit CAD File Structure Schematic



2.4 File Naming Convention

In order to maintain consistent and clear file naming from project to project, there needs to be an acceptable standard for how the digital files should be named. Within ODOT, each design office has a standard file naming convention which is acceptable and works for them. In general, the first part of the prefix of a file name is dictated by the *project key number*, the second part represents the *design phase*, and the third part represents the *version number*. A file's *extension* shall represent the type of file it is. An illustration and generalized legend for naming of a typical file is as follows:



The **project key number** is the five digit number which has been assigned to the project by ODOT. This number should be obtained prior to beginning any work on basemaps and plan sheet files.

The **design phase**, as indicated in the diagram above, can represent either the design office, application origin, level of completeness, or descriptive text about the type of graphics the file contains. Usually the design phase will include only one or two letters, sixth and seventh places in the prefix. The eighth place in the prefix is reserved for the **version number**.

A file's **extension** may also be representative of the type file it is, or the graphics it contains. For example, a file with a .TXT extension contains text, a file with a .SOE extension is a survey (station, offset, and elevation) file. The .DGN extension is reserved for basemaps which are to be referenced into the active file.

Not all file names will fit into this format. For exceptions, and for specific file naming convention dictated by design office or application origin, see Table 2-3.

Table 2-3 File Naming Convention

DESIGN OFFICE OR APPLICATION ORIGIN	FILE NAME	FILE TYPE	DESCRIPTION
CONSTRUCTION	keynu???.rpt	ascii	Inroads reports (output files)
	keynucp?.dgn	graphic	Profiles
	keynucx?.dgn	graphic	Cross Sections
CONTRACT PLANS			
CONTRACT PLANS	keynuf.nam	graphic	Title block text and ""V"" numbers
	keynufs.ts1	graphic	Title sheet
	keynuf.dt?	graphic	Details
	keynuf.ty?	graphic	Typical sections
	keynufs.tcp	graphic	Traffic control base file
	keynuf.tp?	graphic	Traffic control (details, detours, staging, etc.)
	keynuf.pd?	graphic	Pipe data
	keynuf.al?	graphic	Alignment sheets
	keynuf.pl?	graphic	Plan sheets
	keynuf.pf?	graphic	Full profile plan sheets
	keynuf.pp?	graphic	Plan and profile sheets
	keynuf.dr?	graphic	Drainage and utilities sheets
	keynuf.nt?	graphic	Separate note sheets
	keynufal.dgn	graphic	Alignment base file
	keynuf.pro	graphic	Profile base file
	keynufp?.dgn	graphic	Profile base strip format
	keynufc?.dgn	graphic	Final drafting contours
keynufe?.dgn	graphic	Existing topography	
CONSULTANT PREPARED			
CONSULTANT PREPARED	keynuco?.dgn	graphic	Design files
DATABASE			
DATABASE	*.idx	binary	Index file
SURVEY			
SURVEY	keynu?e?.dtm	binary	Inroads 7.0 existing digital terrain model
	keynu?e?.dgn	graphic	Existing topography
	keynu?nt?.dgn	graphic	Existing survey control network file
	keynu?rec.dgn	graphic	Recovery file
	keynu?mon?.dgn	graphic	Right-of-way movementation file

Table 2-3 File Naming Convention (Cont'd.)

DESIGN OFFICE OR APPLICATION ORIGIN	FILE NAME	FILE TYPE	DESCRIPTION
ROADWAY DESIGN (CONT'D.)	keynu?d?.dgn	graphic	Detail map
	keynu?e?.dgn	graphic	Existing topography
	keynu?e?.dtm	binary	Inroads 7.0 existing digital terrain model
	keynu?p?.dgn	graphic	Profiles
	keynu?px.dgn	graphic	Profiles and cross sections
	keynu?rw.dgn	graphic	Right-of-way file
	keynu?v?.dgn	graphic	Vicinity maps
	keynu?x?.dgn	graphic	Cross sections
	keynud???.dtm	binary	Inroads 7.0 design digital terrain model
	keynud???.tml	binary	Inroads roadway templates
	keynud???.asc	ascii	Inroads horizontal and vertical alignment, etc.
	keynudc?.dgn	graphic	Surface contours
	keynuds?.dgn	graphic	Slope map for right-of-way
	keynuds???.dgn	graphic	Design file
	keynu???.alg	binary	Inroads 7.0 alignment geometry
	keynu???.asc	ascii	Inroads input horizontal and vertical
	keynu???.bin	binary	Inroads input for reports
	keynu???.rpt	ascii	Inroads reports (output files)
	keynu???.rwk	binary	Inroads 7.0 load project file (record file)
	eynu???.rwl	binary	Inroads 7.0 roadway station and templates
keynu???.tml	binary	Inroads roadway templates	
PHOTOGRAMMETRY	keynupd?.dgn	graphic	Digital elevations
		graphic	Digitized data
		graphic	Planimetry dtn data
RIGHT-OF-WAY ENGINEERING		graphic	Right-of-way

Table 2-3 File Naming Convention (Cont'd.)

DESIGN OFFICE OR APPLICATION ORIGIN	FILE NAME	FILE TYPE	DESCRIPTION
GEO/HYDRO/ENVIRO	keynubp.pl?	graphic	Bank Protection plans
	keynurd.pl?	graphic	Combined roadside dev. plans (small projects)
	keynucg.dgn	graphic	Contour grading design
	keynucg.pl?	graphic	Contour grading plans
	keynucu.pl?	graphic	Culvert plans
	keynuadf.txt	ascii	Description of files
	keynuec.pl?	graphic	Erosion control plans
	keynuafn.txt	ascii	File narrative
	keynufp.pl?	graphic	Fish passage plans
	keynuhm.pl?	graphic	HazMat
	keynuir.dgn	graphic	Irrigation design
	keynuir.dt?	graphic	Irrigation details
	keynuir.pl?	graphic	Irrigation plans
	keynulsr.pl?	graphic	Landslide/Rock fall correction
	keynum.s.pl?	graphic	Material Source plans
	keynupl.dgn	graphic	Planting design
	keynupl.dt?	graphic	Planting details
	keynupl.pl?	graphic	Planting plans
	keynurtw.pl?	graphic	Retaining wall plans
	keynusd.dgn	graphic	Site development design
	keynusd.pl?	graphic	Site development plans
	keynusw.pl?	graphic	Sound wall plans
	keynust.pl?	graphic	Stormwater plans
	keynusi.pl?	graphic	Subsurface information
	keynutw.pl?	graphic	Temporary water management plans
	keynuwe.pl?	graphic	Waterway Enhancement plans
	keynuwt.dgn	graphic	Wetland design
	keynuwt.pl?	graphic	Wetland plans

Table 2-3 File Naming Convention (Cont'd.)

DESIGN OFFICE OR APPLICATION ORIGIN	FILE NAME	FILE TYPE	DESCRIPTION
INTELLIGENT TRANSPORTATION SYSTEM	keynuits.dgn	graphic	Base map/Design file - Includes referenced files and design work.
	keynuits.dt1	graphic	Details
	keynuits.pl1	graphic	Plan Sheets - Referenced base map with bubble notes and exploded views along with general notes, legends, symbols, index and misc. sheets.
	keynuits.wd1	graphic	Wire diagrams, splice diagrams.
STANDARDS	???????.det	graphic	Site development plans
		graphic	Contour grading plans
SUPPORT	*.rsc	binary	Resource file
	annotate.mes	ascii	ETI input
	keynudfl.txt	ascii	Description of files - designer
	keynuffl.txt	ascii	Description of files - contract plans
	keynulfl.txt	ascii	Description of files - locations
	keynuu.dgn,1	graphic	rmtfix output copy of bad graphic.dgn

Note: A schematic of the general CAD file structure including seed files is shown in Section 2.3, Volume 1.

2.5 Seed Files, Working Units and Drawing Scale

Seed Files

There are seven seed files available for use to develop the contract plans, which are:

- | | |
|----------------|-------------------|
| 1. SEED2D.DGN | 4. SEED811TSE.DGN |
| 2. SEED3D.DGN | 5. SEEDV8.NAM |
| 3. SEEDTSE.DGN | |

All of the seed files can be located in the ODOT's workspace at website:

Internal ODOT staff	http://SCDATA3\ODOT_space\standards\seed
External	ftp://ftp.odot.state.or.us/isb/appeng/Microstation/Version8/

Definition

A seed file is a MicroStation™ design file which has been setup with certain generic parameters.

2.5 Seed Files, Working Units and Drawing Scale (Cont'd.)

Working Units

All ODOT English seed files have the same working units:

Master units: Feet; Label: ’

Sub units: Inches; Label: ”

10,000 positional units per meter

Since all new ODOT project CAD files are copied from the ODOT seed files, the new CAD files should contain these working units and should not be changed.

Scale

There are several scales generally used for contract plan development, depending on the size of the area shown on the plan and the amount of data that is being shown. There is a balance to be maintained between developing only as many sheets as needed and producing plans that are clear and readable. The most common scales used are 1”=200’, 1”=100’ and 1”=50’, but 1”=20’ is also acceptable. The word “scale” actually has different meanings when discussing ODOT plans:

1. **The CAD file scale** in MicroStation™ is called the working unit scale. It is set in the original ODOT project files and not changed through the life of a project. All subsequent files need to be copied from the same seed file or at least have the same working units.
2. **The hard copy or “read” scale** is what is seen and measured on a set of plans. Contract plans are 11” x 17”. The scale of road construction plans most often seen is 1”=100’. The scale sizes used on details, cross sections, and typical sections will vary for legibility and appropriate level of detail shown. These scales will generally be compatible with standard architectural and engineering scales.

2.6 Basemaps

Within the contract plans, there are three types of basemap CAD files that are commonly referenced to the *active file* plan sheets. The three basemaps are:

1. Right-of-way
2. Existing topography
3. Design

The seed file used for the topography and design basemaps should be SEED3D.DGN.

Warning

Basemaps must not be moved from the original coordinate base.

Note: For file naming conventions, see Section 2.4, Volume 1.

Tip

To create a clipping boundary, it may be helpful to use the cells named "BORDERFULL" or "BORDERNOTES" as provided in the cell library named ODOT.cel. These are pre-determined shapes that fit within a border and can be used for the "first draft" layout. (During Step 4, the cells will need to be dropped to make the appropriate modifications.)

Tip

For specific steps on using the clip boundary file after it has been created, see the section pertaining to that particular type of plan sheet.

2.6 Basemaps (Cont'd.)

Right-of-way Basemap

The right-of-way basemap is developed by the Right-of-Way Engineering Unit, and is created in 2-D, and organized on the levels documented in Appendix D. The coordination process for this basemap is described in detail in section 11.1. The seed file used for the right-of-way basemaps should be SEEDRW2D.DGN. It can be found at ODOT ftp website:

ftp://ftp.odot.state.or.us/ROW_Eng/standards/CAD_Standards/Seed_Files/

Existing Topographic Basemap

The existing topographic basemap is generally developed by the survey unit and contains all of the appropriate existing features that need to be displayed on the plan sheets. The Roadway Designer and the Survey Unit should work together to define the existing topographic basemap level of detail that will meet the project needs and to make sure the topography shown is correct and accurate. This file also contains point numbers of surveyed features. The data should be organized on the levels documented in Appendix D. Cells should be accessed from the *ODOT Menu*, sub-menu "Existing".

Design Basemap

The design basemap is developed by the designer and/or drafter. The general process involves the designer importing the proposed alignments from a design software program such as InRoads™ and developing any proposed features to a level that can then be used by the drafter to assemble the contract plan sheets. The data should be organized on the levels documented in Appendix D. Cells should be accessed from the *ODOT Menu*, sub-menu "Construct".

Basemap Preparation as Reference Files

Once the basemap has been created and turned over to the roadway drafter for attachment as a reference file, it will need to be renamed and rechecked, or "groomed", for proper level, color, line weights, and line codes. Text associated with the basemap can either remain in the reference file, or reside in the *active file* at the discretion of the drafter.

2.7 Clip Boundary

The term "clip boundary" refers to a way of defining the boundary of a reference file, a rectangular or multisided shape outlined on the roadway alignment at a size and location to be "clipped" in a plan sheet. These "clip boundaries" should be placed from the beginning to the end of the alignment including all of the alignment, construction areas and right-of-way that needs to be shown on the plan sheets.

Figure 2-2 Preliminary Clip Boundary Layout

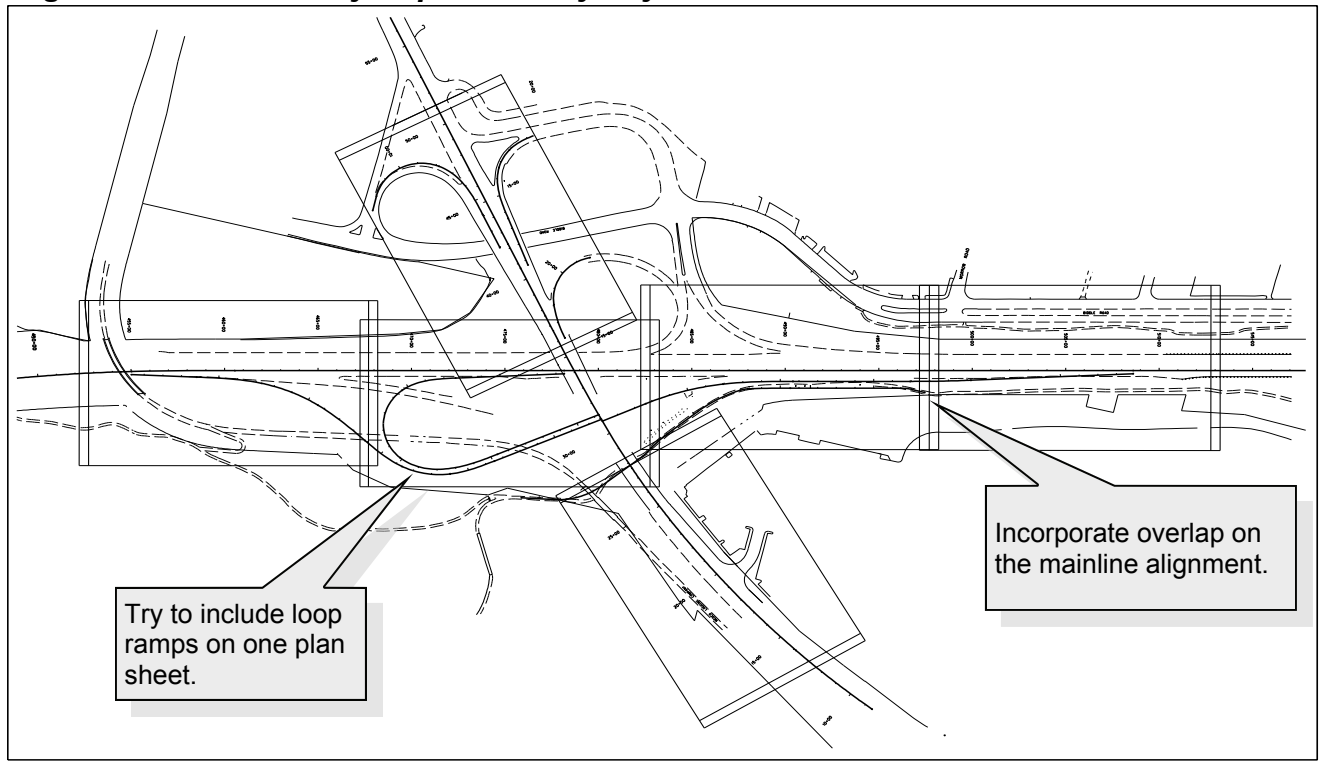
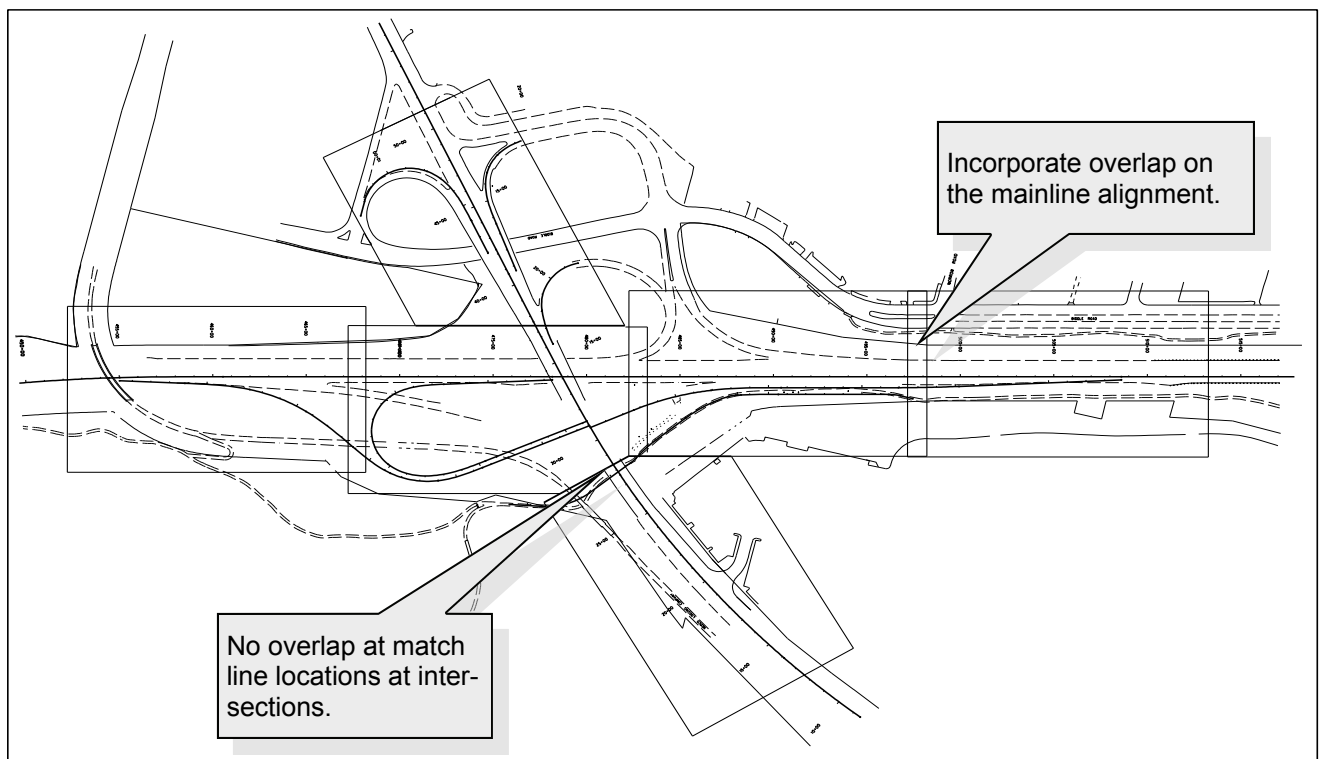


Figure 2-3 Finished Clip Boundary Layout



2.7 Clip Boundary (Cont'd.)

Step 1 — Copy a File

Copy the seed file, SEED3D.DGN, to a newly-renamed file using the appropriate file naming convention. This file will be your clip boundaries reference file to be used in the creation of plan sheets.

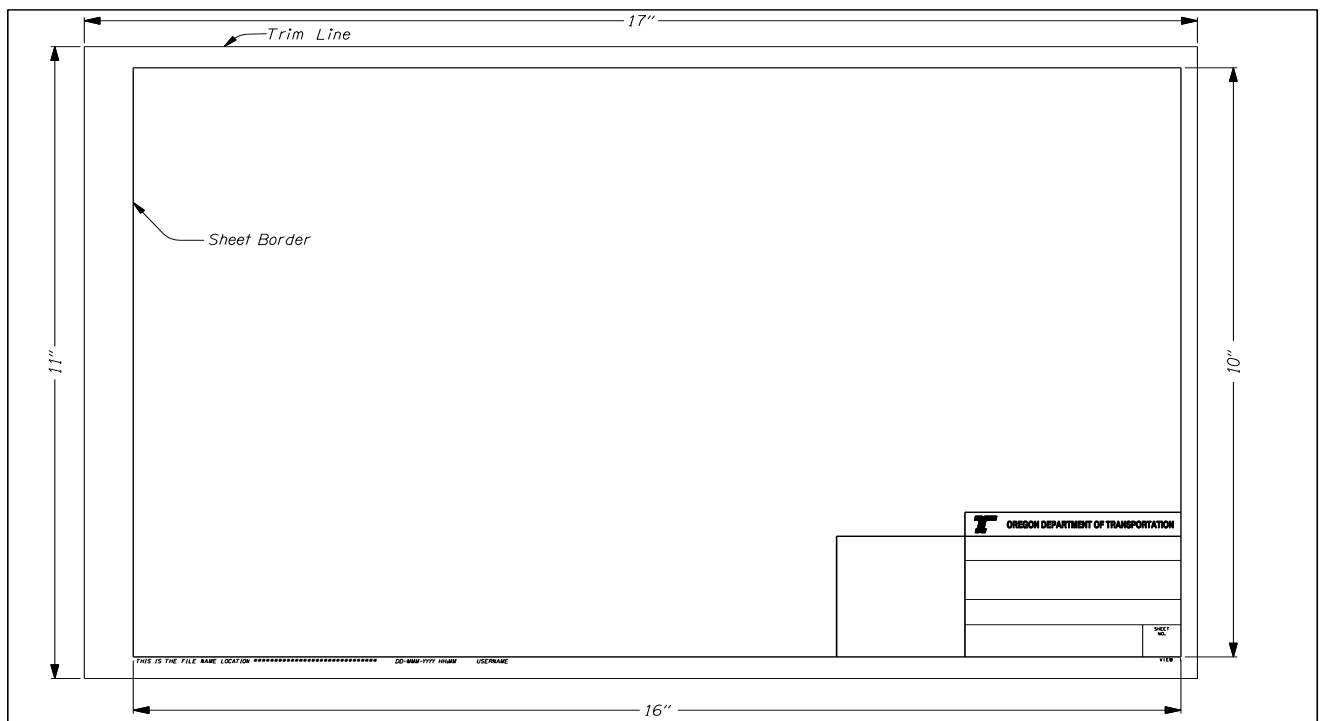
Step 2 — Attach a Basemap Reference File

Attach the basemap reference files to the clip boundary file you have just created. The basemap files you attach depend on the type of plan you are creating. Generally, for construction plan sheets, you should attach either the existing topography, right-of-way, or design basemap.

Step 3 — Preliminary Layout

Review the alignment and begin placing rectangular shapes, matching the plan sheet area, at key points along the alignment. This “first draft” layout does not need to be perfect, as you will refine the boundaries later. The shape you use should represent the length and width that will be shown on a plan sheet. Normally, at 1”=100’ scale, this would be approximately 1,200 feet in length per single plan sheet. The key points you should identify first, such as bridges, interchanges, and major intersections should usually be centered on a plan sheet. The rest of the sheets should be manipulated to work with these primary clip boundaries. See Figure 2-2.

Figure 2-4 Roadway Unit Sheet Border Dimensions

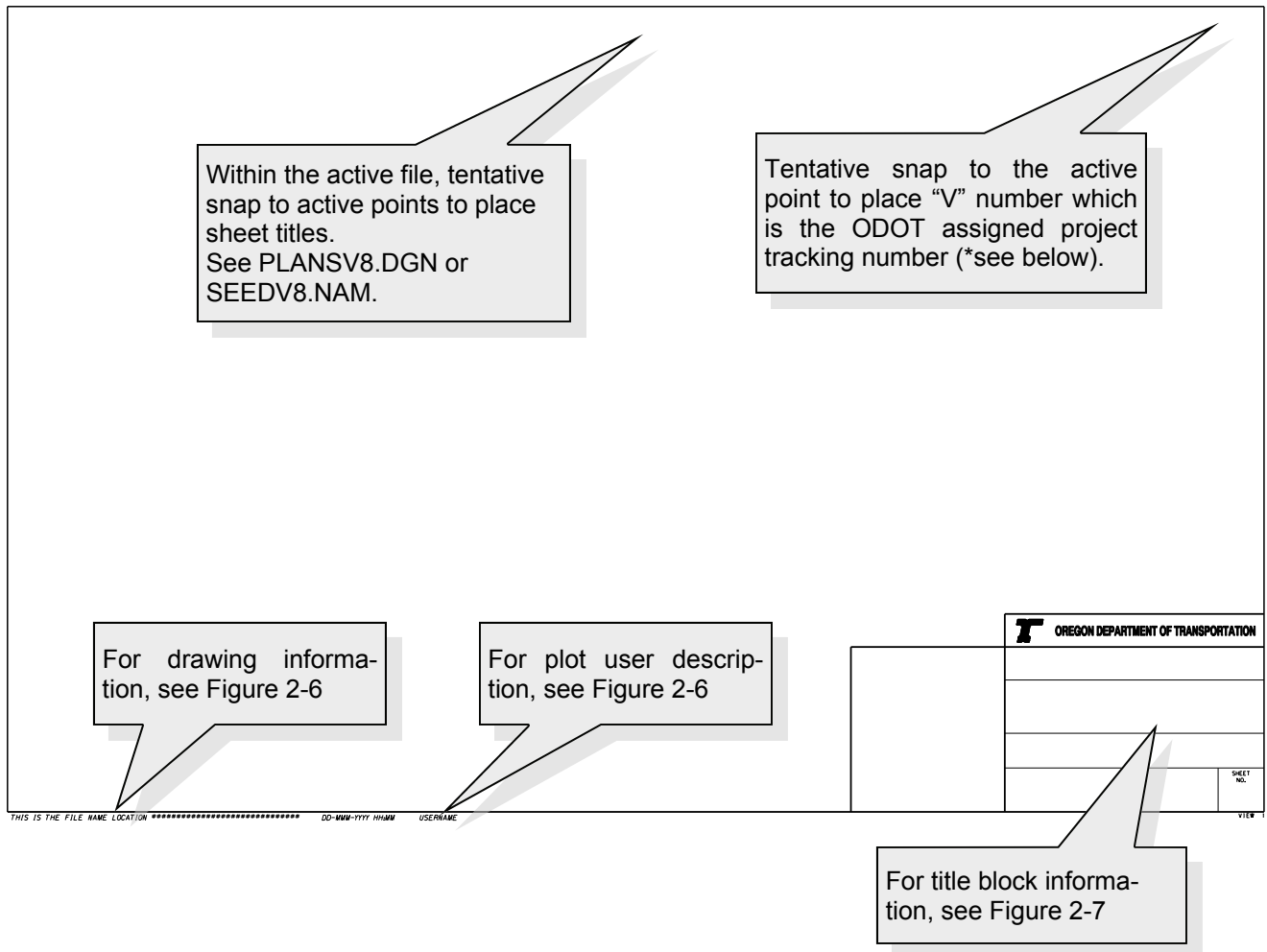


2.7 Clip Boundary (Cont'd.)

Step 4 — Create Finished Clip Boundaries

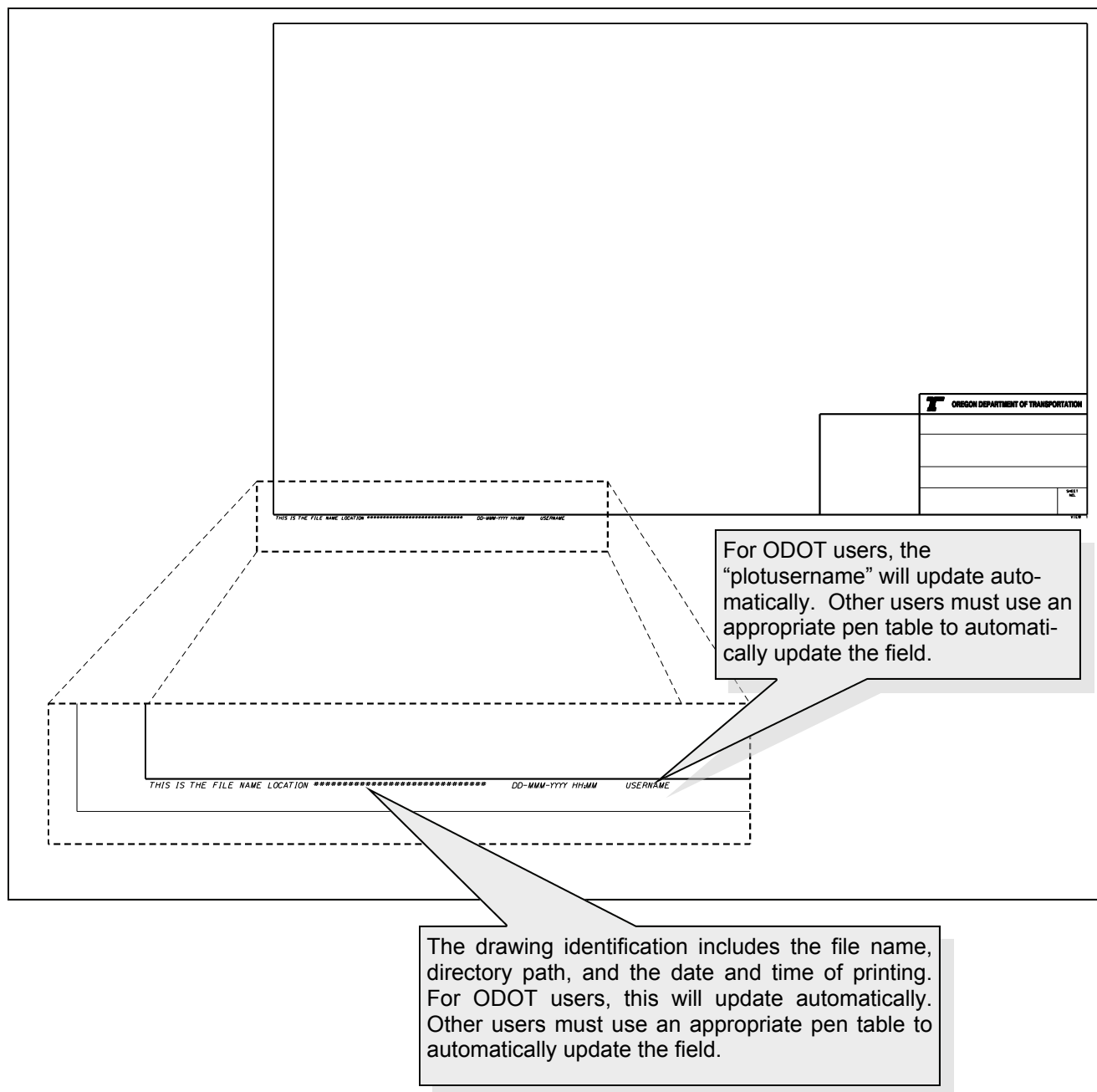
When a general layout of shapes has been established, you can begin creating the exact clip boundaries that will be used to clip the reference file basemaps within the plan sheet *active files*. See Figure 2-3.

Figure 2-5 Roadway Unit Sheet Border Features Legend



*When the contract plans are complete and ready to be advertised for bid, the "V" number will be added to the additional reference file KEYNUF.NAM in the upper right corner of each plan sheet. For preliminary, advance, and final review submittals, the appropriate block shall be placed here rather than the "V" number. These cells can be obtained from the cell library ODOT.CEL.

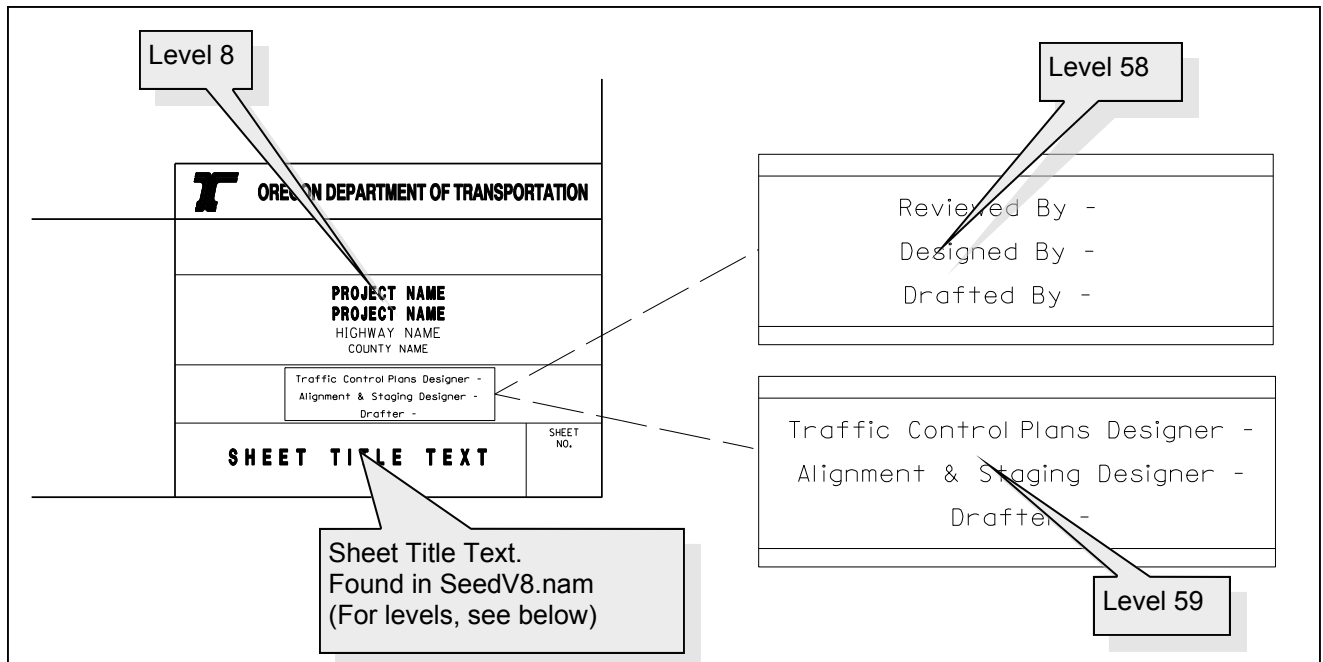
Figure 2-6 Drawing Information Within the Sheet Border



Note:

Non-ODOT users, using ODOT's workspace can also use *plans.tbl* (pen table) which updates the field.

Figure 2-7 Title Block Information



SHEET TITLE TEXT (FOUND IN SEEDV8.NAM)

<u>Level</u>	<u>Sheet Title</u>	<u>Level</u>	<u>Sheet Title</u>
9	TYPICAL SECTIONS	29	PROSPECTIVE DISPOSAL SITE
10	DETAILS	30	PROSPECTIVE MATERIAL SOURCE
11	CONSTRUCTION TABLES	32	PROFILE
12	TRAFFIC CONTROL DETAILS	33	ALIGNMENT
13	TRAFFIC CONTROL PLAN	35	GENERAL CONSTRUCTION
15	EROSION CONTROL DETAILS	36	DRAINAGE & UTILITIES
16	EROSION CONTROL PLAN	37	REMOVAL PLAN
17	WATER QUALITY DETAILS	39	DETOUR PLAN
18	WATER QUALITY PLAN	41	STRIPING DETAILS
20	BANK PROTECTION	42	STRIPING PLAN
21	WATERWAY EMBANKMENT	44	RIGHT OF WAY PLAN
22	NOTES	49	ROADSIDE DEVELOPMENT DETAILS
23	DRAINAGE NOTES	50	ROADSIDE DEVELOPMENT PLAN
24	CONSTRUCTION NOTES	51	CONTOUR GRADING PLAN
25	MANDATORY BORROW SOURCE	52	ROADWAY ENGINEERING SECTION TITLE
26	MANDATORY DISPOSAL SITE	53	GEO/ENVIRONMENTAL SECTION TITLE
27	MANDATORY MATERIAL SITE	56	REVIEW COPY ONLY STAMP.
28	PROSPECTIVE BORROW SOURCE		

Figure 2-8 Title Block Information - 1"=100'

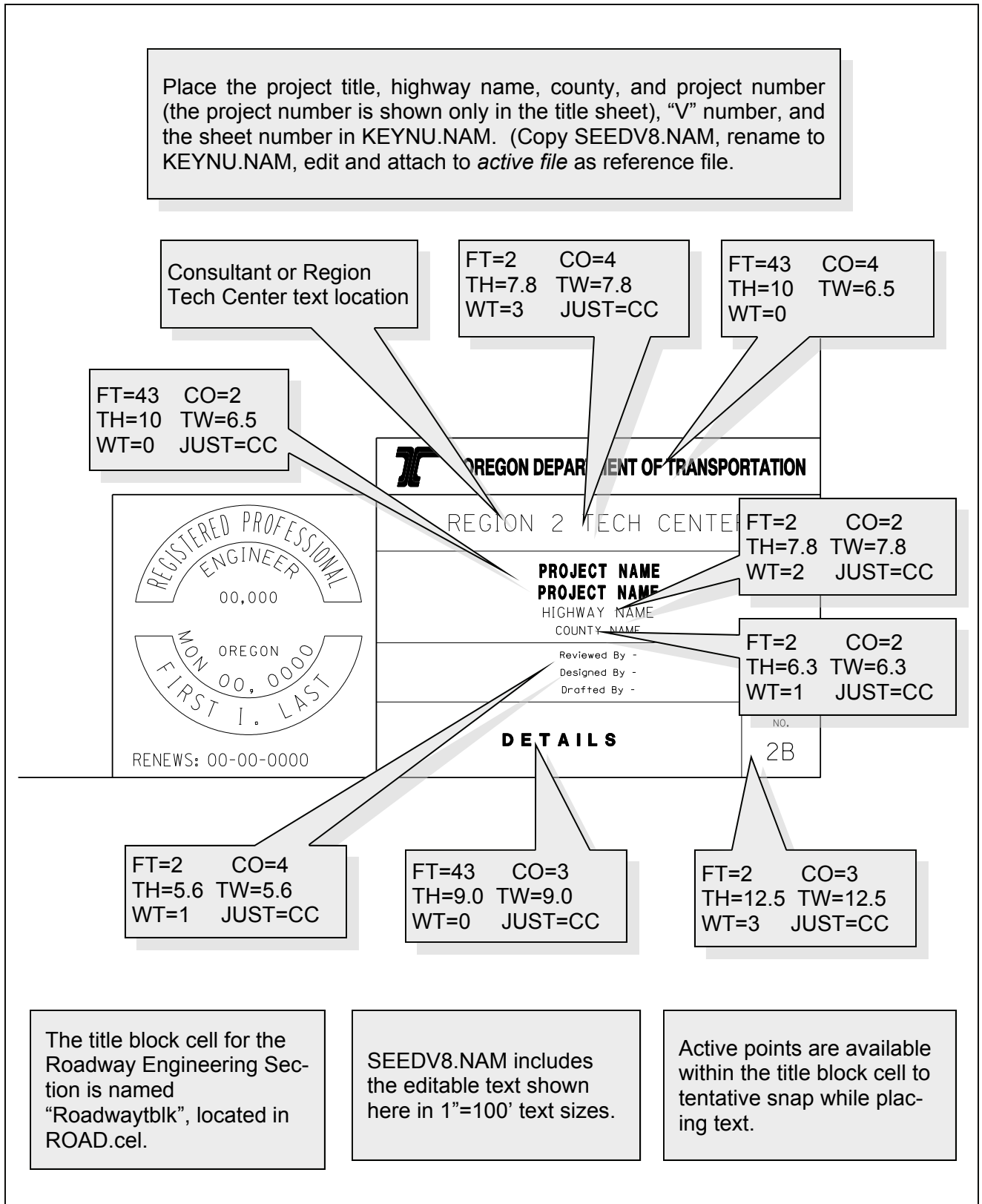
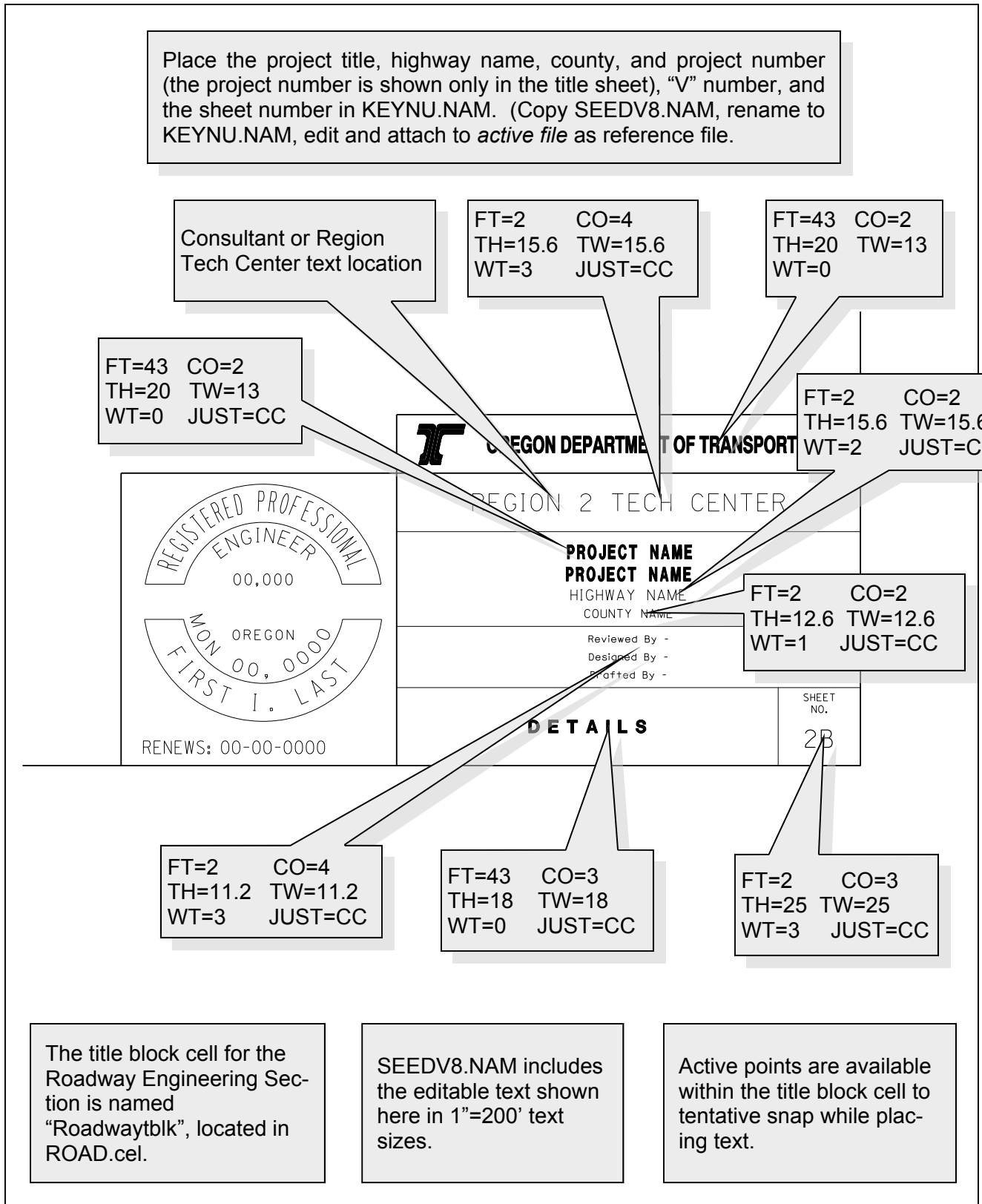


Figure 2-9 Title Block Information - 1"=200'



Note:
For more information on
“Cache” file, see
Appendix “B”, Volume 1.

2.8 Sheet Border and Title Block

Within all contract plan sets, a standard sheet border has been developed that should be used for all of the roadway drawings. Drawings from Bridge and Traffic have their own sheet borders that are independent of the standard road design sheet border.

2.8.1 Sheet Border

Enter ODOT’s proprietary software, “Plotypus,” to automatically place borders (*File/Plotypus*). “Plotypus” automatically creates the borders at a pre-designated location in the design file. Choose the intended scale and sheet size, placing up to ten borders per design file. See Appendix D, “A Quickguide To Plotypus,” for more information on placing borders.

Plotypus is available in the ODOT’s workspace:

Internal ODOT staff	http://SCDATA3\ODOT_space\standards\vb
External	ftp://ftp.odot.state.or.us/isb/appeng/Microstation/Version8/

2.8.2 Title Block

The title block for each roadway unit sheet is located in the lower right-hand corner of the sheet border, as shown in Figure 2-5. Title block text is illustrated in Figure 2-7. The title block should include the project title, highway name, county of project residence, ODOT project number (title sheet only), and sheet number as indicated in Figure 2-8.

2.8.3 PLANSV8.DGN

PLANSV8.DGN is one of the reference files that you should attach to the *active file*. PLANSV8.DGN serves two purposes; to work with a roadway border in creating all of the various combinations of plan, profile, and construction note sheets needed, and for access to “Cache”. PLANSV8.DGN is available to copy from the ODOT’s workspace:

Internal ODOT staff	http://SCDATA3\ODOT_space\standards\ref
External	ftp://ftp.odot.state.or.us/isb/appeng/Microstation/Version8/

Figure 2-10 illustrates the contents of PLANSV8.DGN.

Figure 2-10 PLANSV8.DGN

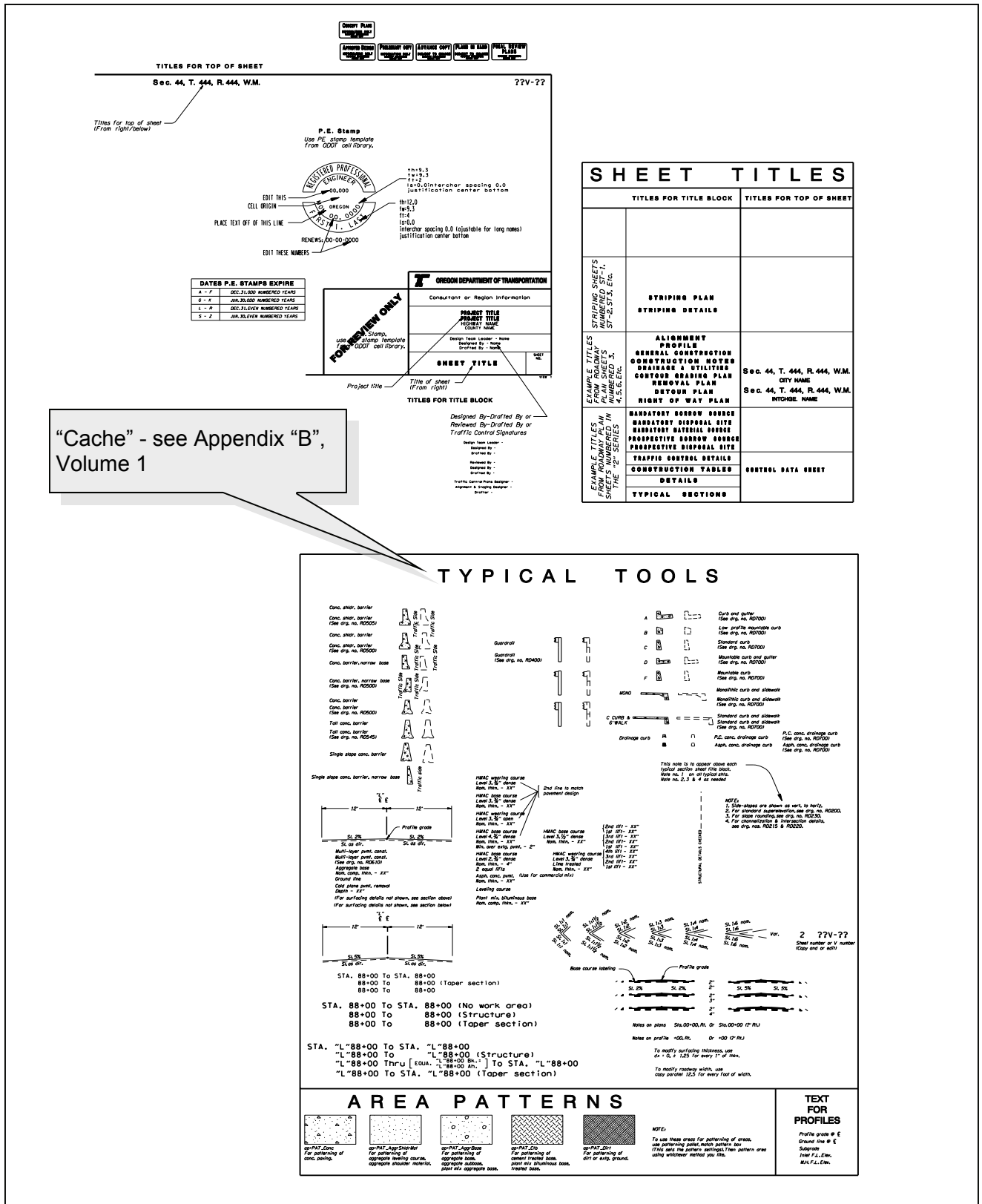
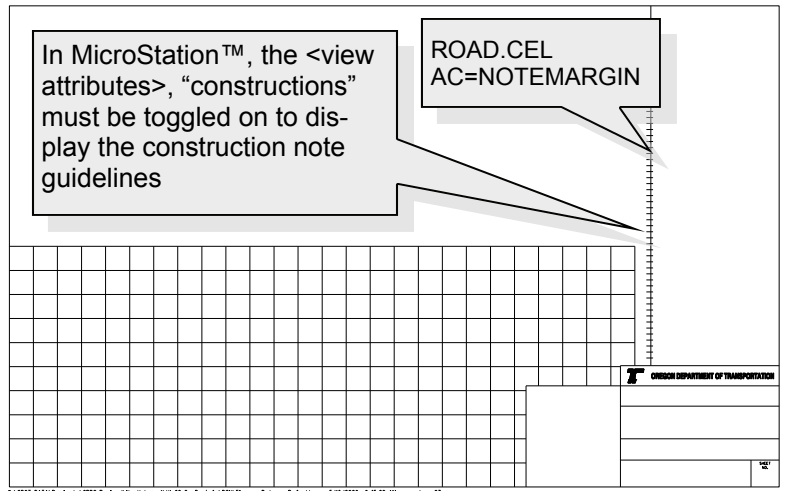


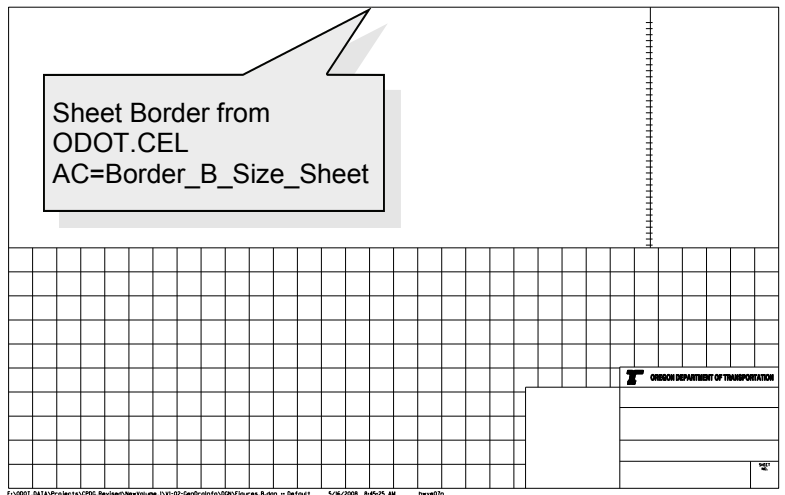
Figure 2-11 Plan-Profile Sheet Choices

ROAD.CEL
 Cellname:
 "PROFGRIDLESSHALF"



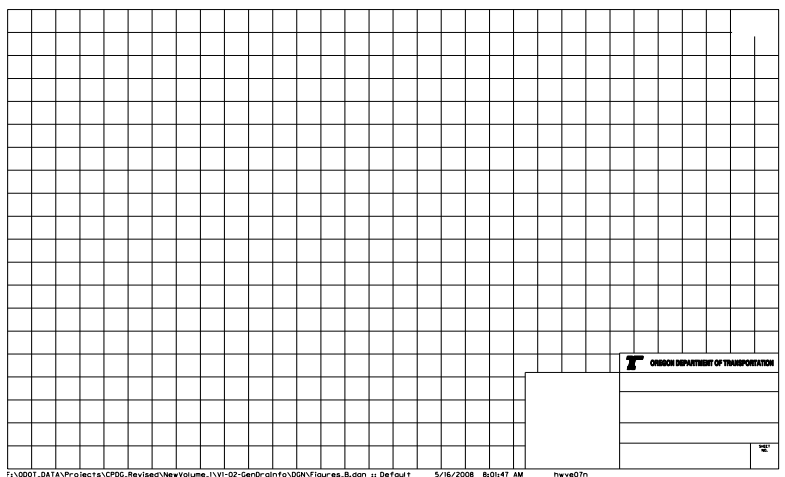
NOTE PLAN PROFILE

ROAD.CEL
 Cellname:
 "PROFGRIDHALF"



PLAN PROFILE

ROAD.CEL
 Cellname:
 "PROFGRIDFULL"

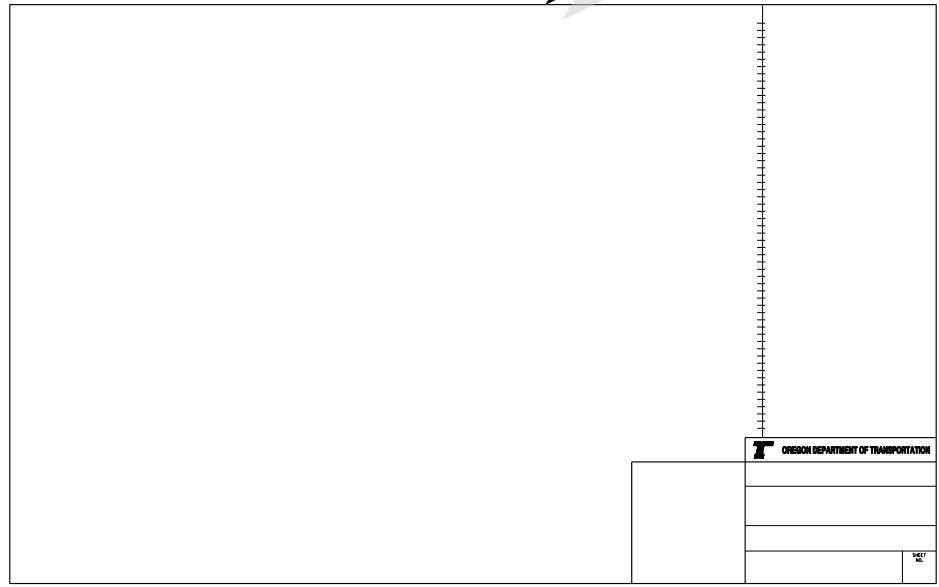


FULL PROFILE

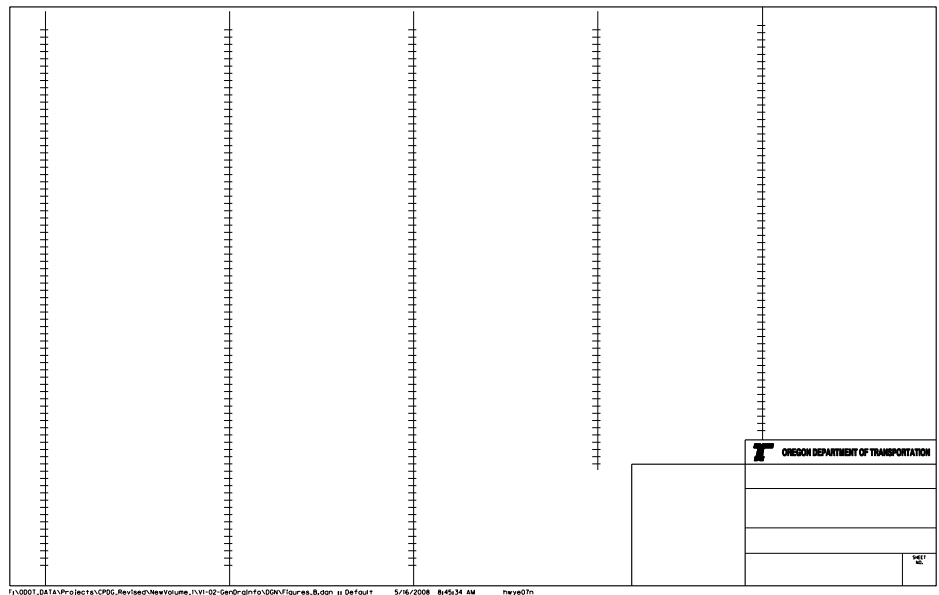
Figure 2-12 Construction Note Guidelines

ROAD.CEL
 Cellname:
 "NOTEMARGIN"

Sheet Border



PLAN AND CONSTRUCTION NOTE



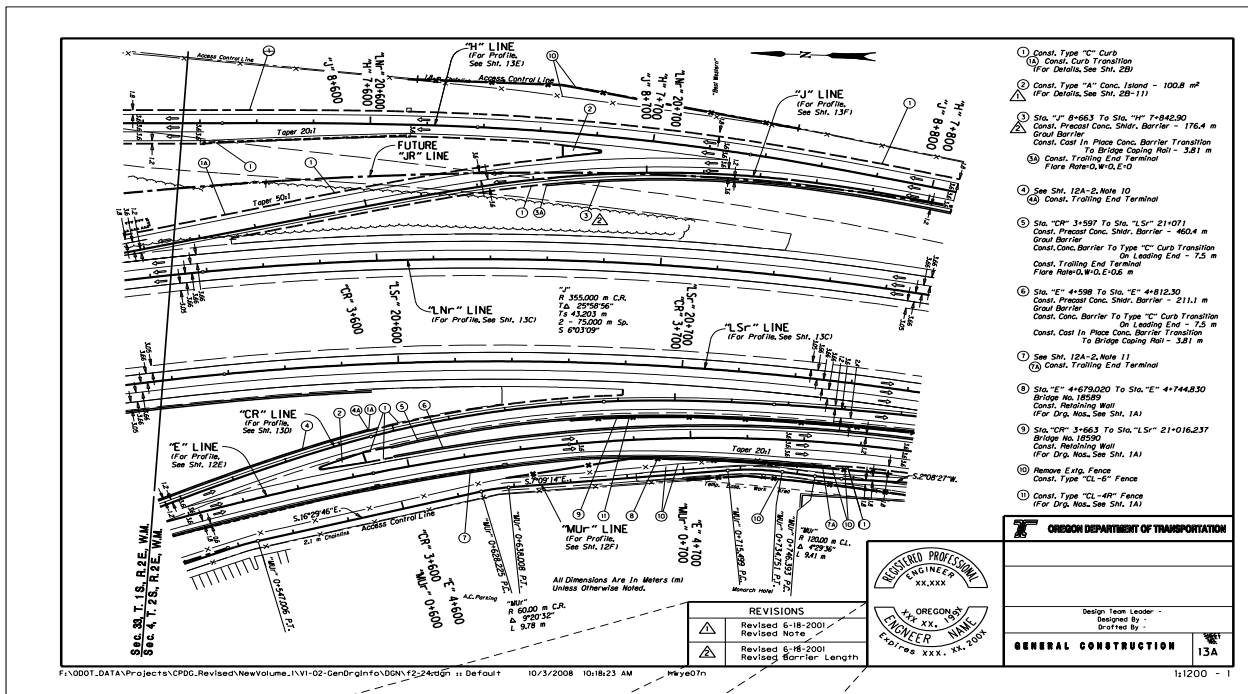
CONSTRUCTION NOTE

For instructions on placement of notes and bubbles, see Figures 11-27 and 11-28, Volume 1

2-9 Addenda Guidelines

It is possible that after a project has been advertised for bidding, errors in the plan sheets are discovered. To correct the error during the bidding process, an addenda letter can be prepared. Any changes to a plan sheet require a new sheet to be made with the revision clearly shown. Revision numbers are unique only to the sheet being revised. See Figure 2-13 for addenda guidelines.

Figure 2-13 Addenda Guidelines



Give revision date and brief description of revision.