

City of San Diego CADD Standards

Revised February 2006

By CADD Advisory Committee



SAN DIEGO DPC



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1 – Introduction

Standards reflect a set of resources, which are used by organizations to insure uniformity and consistency in procedures and products. This CADD Standard manual lists and explains how to implement the engineering CADD standards adopted by the City of San Diego. However, this document does not set design engineering standards.

Purpose of Document

The CADD Advisory committee of the City of San Diego has approved this set of CADD standards to be used in creating all digital drawings within the City's CADD community. All CADD users, both City and consultant, who are producing CADD drawing should be familiar with and must use these standards. These are minimum standards for the creation and submittal of CADD drawings at the City of San Diego. Individual Departments or Divisions may have additional requirements for creating and submitting CADD drawings. All users must check with the Division for which the drawings are being produced to determine if additional requirements must be followed.

These standards are to be used with Bentley Systems' MicroStation V8 product, which is the only CADD format accepted by the City. All CADD drawings submitted to the City of San Diego for use or approval shall be in native MicroStation V8 format. It is not intended that drawings be converted to V8 from other CADD software or formats. Experience at the City has shown that this CADD standard is sufficiently met only when drawings are created in MicroStation V8. In addition to the items stated above, standards defined by this document are:

- Color Table
- Custom Line Styles
- Level Structure
- Cell Libraries
- Dimensions
- Seed Files

Changes to CADD Standards

The CADD Advisory Committee is ultimately responsible for the creation, acceptance, maintenance, publishing, and updating the CADD Standards. To facilitate these functions the CADD Advisory Committee formed a CADD Standards Review Sub-committee, which acts on the behalf of the CADD Advisory Committee in fulfilling the role of establishing City-wide CADD standards. The CADD Standards Review Committee is responsible for proposing, reviewing, and approving changes to the approved and published CADD Standards. Appendix A describes how this sub-committee conducts the business of keeping the CADD Standards current.

Directory Structure Information

Bentley's MicroStation V8 provides an out of the box directory structure in which most custom files will be placed. The directory structure and related files is given below.

- I. C:\Program Files\Bentley\Workspace\Standards\
 - a. Cell
 - i. V8 City Details.cel
 - ii. V8 City Notes.cel
 - iii. V8 City Existing.cel
 - iv. V8 City Proposed.cel
 - v. Traffic Notes & Details.cel
 - vi. Traffic St Features.cel
 - vii. Traffic Equipment.cel
 - viii. Traffic Striping.cel
 - b. Data
 - i. V8 Color.tbl
 - c. Dgn
 - i. 99 ortho grid.dgn
 - ii. 92 ortho grid.dgn (Geoindex renamed)
 - d. Dgnlib
 - i. V8 City Level.csv
 - ii. V8 City Dimen Style.dgn
 - e. Mdlapps
 - f. Macros
 - g. Symb
 - i. V8 City Line Style.rsc
 - ii. V8 City Traffic Line Style.rsc
 - iii. V8 City Font.rsc
- II. C:\Program Files\Bentley\Workspace\System\data
 - a. Units.def
- III. C:\Program Files\Bentley\Workspace\Users
 - a. V8Workspace.ucf
- IV. C:\Program Files\Axiom\V8\aximenu
 - a. Aximenu.txt
- V. C:\Program Files\Bentley\Program\Licensing\msv8.lic
- VI. C:\Program Files\Bentley\Program\Licensing\bentleyview.lic
- VII. C:\Program Files\Bentley\Civil\licensing\bentleycivil.lic

Reference File Path

When attaching reference files, standards require that the full path to the reference file be saved.

Plotting File Name on Plot File Hard Copy

The file name and date will appear on all plotted sheets.

When using Iplot, this can be accomplished by placing the cell named “FILE PATH AND DATE” from cell library V8 City Notes.cel in the border area on each sheet border before plot files are created and using a corresponding pen table containing a reference to the cell named “FILE PATH AND DATE” when generating the plot files.

When using the MicroStation print/plot option, toggle on print border in the Setting Attribute dialog box..

2 – Seed Files

Seed files are the beginning of all MicroStation drawings and the correct City Standard seed file must be used when creating any project file to be submitted or used by the City.

City MicroStation Seed Files

There are six standard seed files currently being used to create City MicroStation drawings.

Seed File	Usage
V8 CITY NAD27 2D.DGN	2D file using NAD 27 coordinate system, working units defined in feet
V8 CITY NAD27 3D.DGN	3D file using NAD 27 coordinate system, working units defined in feet
V8 CITY NAD83 2D.DGN	2D file using NAD 83 coordinate system, working units defined in survey feet
V8 CITY NAD83 3D.DGN	3D file using NAD 83 coordinate system, working units defined in survey feet
V8 CITY NAD83M 2D.DGN	2D file using NAD83 coordinate system, working units defined in meters
V8 CITY NAD83M 3D.DGN	3D file using NAD83 coordinate system, working units defined in meters

Certain attribute information is built into the City's standard seed and should NOT be changed without submitting a change request to the CADD Standards Committee. They are listed below:

- Working units definitions for either NAD27 or NAD83 based coordinate system
- Current Standard V8 level structure
- Current Standard color table
- Global origin
- Standard dimension style

CADD drawings produced by, used by, or submitted to the City of San Diego are expected to be at full scale using the California State Plane Coordinate System, Zone 6 (NAD 83). The State of California uses the US Survey Foot conversion factor and this must be included as part of all CADD drawings. The City of San Diego will provide the correct units definition file (units.def) to insure the proper metric conversion factor is used.

Other attribute information can be adjusted for each Division or Department's needs. This includes but is not limited to setting up Divisional or Departmental models, active angle and scale settings, and attaching other agency's resource files as determined by the project.

3– Color Table

A standard color table (V8 City color.tbl) has been created to insure that all color plots are consistent.

The image displays a 25x16 grid of colored squares, each containing a numerical value. The colors range from light yellow (high values) to dark purple/black (low values). The values are arranged in a pattern that shows a clear gradient across the grid. The first column contains values from 0 to 255,255,255. Subsequent columns show a decreasing trend, with values like 1, 2, 3, ..., 15 in the second column, and so on. The colors transition from bright yellow at the top-left to deep purple and black at the bottom-right.

v8 Color Table

V8 City color.tbl

4 – Line Styles

The City CADD standards contain two custom line style resource files to be used in addition to the 8 default line styles when defining existing and proposed structures within the City CADD environment. These two resource files (V8 City Line Style.rsc and V8 Traffic.rsc) differ greatly in how they were created and how they will be used in placing elements in a drawing.

V8 City Line Style.rsc

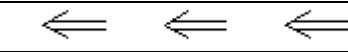
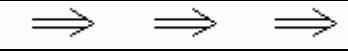
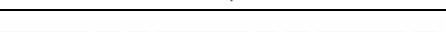
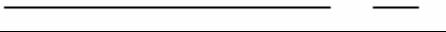
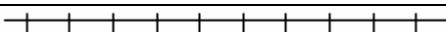
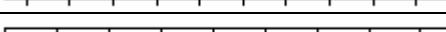
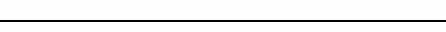
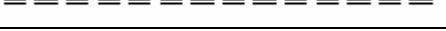
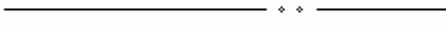
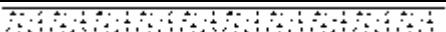
V8 City Line Style.rsc contains symbols to represent the line work of existing and proposed structures. Once placed in a drawing, they are symbolic of the structures only and DO NOT represent a scaled version of the structure. They were created to be placed on a drawing using the plot scale factor as the line style scale factor. Thus, when working on a drawing which will be plotted at 40-scale use the line style scale factor of 40, and when working on a drawing, which will be plotted at 20-scale use the line style scale factor of 20 etc. Results being that the symbols on the 40 and 20 scale plots will look the same on the hardcopy.

V8 City Traffic.rsc

V8 City Traffic.rsc contains currently used City traffic striping line styles. These are scalable representations of traffic striping if placed using line style scale factor of 1 regardless of plot scale.

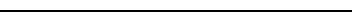
V8 City Line Style.rsc

Line Style Name	Description	Sample
BARRL	Barricade Left	A horizontal line with four small square markers at regular intervals.
BARRR	Barricade Right	A horizontal line with four small square markers at regular intervals.
BERM	Berm	A horizontal line with a series of short diagonal dashes.
BROWDL	Brow Ditch Left	A horizontal line with three short dash marks.
BROWDR	Brow Ditch Right	A horizontal line with three short dash marks.
CAL ABUTT RTS	Cal Trans Abutment	A horizontal line with a series of diagonal slashes.
CATV	Cable TV	A horizontal line with a dashed center segment and two 'C' shaped markers at the ends.
CHANNEL	Channel	A horizontal line with a series of short vertical dashes.
CITY BNDY	City Boundary	A horizontal line with the text 'CITY BNDY' written across it.
CL	Center Line	A horizontal line with a dashed center segment.
CNTY BNDY	County Boundary	A horizontal line with the text 'CNTY_BNDY' written across it.
CUT	Cut	A horizontal line with a dashed center segment and the word 'CUT' written below it.
DAYLT	Daylight	A horizontal line with a series of three vertical slashes.
ELEC	Electric Line	A horizontal line with a dashed center segment and the letter 'E' written below it.
EOPL	Edge of Pavement Left	A horizontal line with a series of three diagonal slashes.
EOPR	Edge of Pavement Right	A horizontal line with a series of three diagonal slashes.
EXCONC	Existing Concrete	A horizontal line with a series of small dots.
EXPAV	Existing Pavement	A horizontal line with a series of diagonal slashes.
EXSM	Existing Sewer Main	A horizontal line with a dashed center segment.
EXWM	Existing Water Main	A horizontal line with a dashed center segment.
FENCE	Fence	A horizontal line with 'x' markers at both ends.
FO	Fiber Optic	A horizontal line with 'FO' markers at both ends.
FILL	Fill	A horizontal line with a dashed center segment and the word 'FILL' written below it.
FSWALLEFT	Free Stand. Wall Left	A horizontal line with an upward-pointing triangle marker.
FSWALRIGHT	Free Stand. Wall Right	A horizontal line with a downward-pointing triangle marker.
FUEL	Fuel Line	A horizontal line with 'F' markers at both ends.
GAS	Gas Line	A horizontal line with a dashed center segment.
INT BNDY	International Boundary	A horizontal line with the text 'U.S.A.' written across it.
KRAIL	K Rail	A horizontal line with a diamond marker.
MHTL	Mean High Tide Line	A horizontal line with the text 'MHTL' written across it.
OHD	Overhead Lines	A horizontal line with 'OHD' written below it.
PBARRL	Prop Barricade Left	A horizontal line with four small square markers at regular intervals.

PBARRR	Prop Barricade Right	
Line Style Name	Description	Sample
PBERM	Prop Berm	
PDITCHL	Prop Ditch Left	
PDITCHR	Prop Ditch Right	
PFSWALLL	Prop Free Stand Wall L	
PFSWALLR	Prop Free Stand Wall R	
PKRAIL	Prop K Rail	
PLSPL	Property Line Lot Split	
PRWALL	Prop Retaining Wall	
PSM	Prop Sewer Main	
PWM	Prop Water Main	
ROW	Right of Way	
RR	Railroad, Trolley	
RWALL	Prop Wall	
SD	Storm Drain	
STREAM	Stream and Rivers	
SWLEFT	Swale Left	
SWRIGHT	Swale Right	
TEL	Telephone Line	
TSCON	Traffic Signal Conduit	

V8 City Traffic.rsc

Line Style	Description	Sample
Detail 1	4" Yellow CL 40 MPH or less	— — —
Detail 2	4" Yellow CL w/RPM 40 MPH or less	— — . —
Detail 5	4" Yellow CL 45 MPH or more	—— ——
Detail 6	4" Yellow CL w/RPM 45 MPH or more	—— . ——
Detail 7	4" Yellow CL w/RPM 45 MPH or more (Alt to Detail 6)	· · · · . · · ·
Detail 8	4" White Laneline 40 MPH or less	— — —
Detail 9	4" White Laneline w/RPM 40 MPH or less	— — . —
Detail 11	4" White Laneline 45 MPH or more	—— ——
Detail 12	4" White Laneline w/RPM 45 MPH or more	—— . —
Detail 21	4" Yellow No Passing	=====
Detail 22	4" Yellow No Passing w/RPM	:: : =====
Detail 24	4" Yellow Left Edge (Local)	=====
Detail 25	4" Yellow Left Edge w/RPM (Highways)	===== . =====
Detail 27	4" Yellow Left Edge w/RPM (Alt to Detail 25)	===== . =====
Detail 27B	4" White Right Edge	=====
Detail 28	Double Left Edge Pattern	=====

Line Style	Description	Sample
Detail 29	Double Left Edge Pattern w/RPM	
Detail 31	4" Yellow Two-Way Left Turn (Top)	
Detail 32	4" Yellow Two-Way Left Turn w/RPM (Top)	
Detail 36	8" White Channelizing w/RPM	
Detail 36A	8" White Channelizing w/RPM	
Detail 37	8" White Lane Drop w/Double RPM	
Detail 37B	8" White Lane Drop w/Double RPM	
Detail 38	8" White Channelizing Turn Pocket w/RPM (State)	
Detail 38A	8" White Channelizing Turn Pocket w/RPM (Local)	
Detail 38B	8" White Channelizing Turn Pocket w/RPM (Exit Ramp)	
Detail 39	6" White Bike Lane	
Detail 39A	6" White Bike Land @ Intersection	
Detail 40	4" White Turn Arc	

5 – Level Structure

The City has defined a MicroStation V8 named level structure, which allows the CADD user to place elements with the correct color, weight, and line style by picking the correct named level. The levels have been divided into major categories and can be manipulated by using a set of filters. The V8 level structure has also been incorporated into the V8 seed files.

Structure of the V8 Named Levels

Major Categories

Named levels categories consist of major discipline areas as listed below. Every level in each category will start with its categories abbreviation shown in parentheses. All levels are available in each V8 seed file.

- Architectural (ARCH)
- Boundary (BDRY)
- Cable TV (CATV)
- Electric (E)
- Fuel (FUEL)
- Gas (GAS)
- InRoads – Storm and Sanitary (INR)
- Instrumentation (INSTR)
- Irrigation (IRR)
- Landscape (L)
- Mechanical (M)
- Recycled Water (RW)
- Sewer (SWR)
- Sheet Information (SHTINF)
- Storm Drain (SD)
- Structural (STR)
- Surface Features (SF)
- Survey (SUR)
- Telephone (TEL)
- Traffic (TRAF)
- Water (WTR)
- Water Distribution (WDIST)

Structure of the Predefined Filters

Appropriate City Departmental filters and sub filters have been created and are shown in the list below. These filters are also included in the seed files.

- **MWWD**
 - Instrumentation
 - Mechanical
 - Recycled Water
 - Sewer
- **TED**
 - Storm Drain
 - Traffic
- **Used Levels**
- **Water**
 - Instrumentation
 - Mechanical
 - Recycled Water
 - Structural
- **Water Distribution**
 - Arch Bldg Elev
 - Arch Bldg Plan
 - Arch Site Elev
 - Arch Site Pan
- **WSD**
 - Sewer Existing
 - Sewer Proposed
 - Water Existing
 - Water Proposed
 - WSD All
- **Survey**
 - Boundary
 - Easement
 - Monumentation
 - Property
 - Right of way
 - Utilities existing
 - Pt #
 - Text
 - Utilities Proposed
 - Lay Out
 - Aerial Panel
 - DTM
 - Parcel
 - Sewer
 - Water
 - Prelim
 - Line
 - Number
 - Point
 - Text
 - Sheet
 - Surface Features
 - Break Lines
 - Exterior
 - Interior
 - Spots
 - Survey Levels
 - Utilities Proposed

Architectural Levels

Architectural Levels				
Name	Description	Color	Style	Weight
ABLDGE BLOCK WALL	Arch Building Elevation Concrete Block Wall	0	0	0
ABLDGE BRICK WALL	Arch Building Elevation Brick Wall	0	0	0
ABLDGE CABINETS LOCKERS	Arch Building Elevation Cabinets and Lockers	0	0	1
ABLDGE CEILINGS	Arch Building Elevation Ceilings	0	0	0
ABLDGE COLUMNS	Arch Building Elevation Columns	0	0	1
ABLDGE DIMEN	Arch Building Elevation Arch Building Elevation Dimensions	5	0	1
ABLDGE DOORS	Arch Building Elevation Doors Systems	0	0	1
ABLDGE ELEC	Arch Building Elevation Electrical Lights and Wiring	3	0	1
ABLDGE ELEV	Arch Building Elevation Elevator shafts	0	0	1
ABLDGE EQUIPT MACH	Arch Building Elevation Equipment or Machines	2	0	1
ABLDGE ESCAL	Arch Building Elevation Escalators and Moving Walks	0	0	1
ABLDGE FINISH FLOOR	Arch Building Elevation Finish Floor	0	0	0
ABLDGE FIREPLACE	Arch Building Elevation Fireplace	0	0	0
ABLDGE FLOOR JOIST	Arch Building Elevation Floor Joist	0	0	0
ABLDGE FOUNDATION	Arch Building Elevation Foundation	0	0	1
ABLDGE FURNISHINGS	Arch Building Elevation Furnishings	5	0	1
ABLDGE GLASS WALL	Arch Building Elevation Glass Block Wall	0	0	0
ABLDGE GYPSUM	Arch Building Elevation Gypsum Board	0	0	0
ABLDGE HANDRAILS	Arch Building Elevation Handrails	0	0	0
ABLDGE HVAC	Arch Building Elevation HVAC Ductwork and Diffusers	0	0	0
ABLDGE INSUL	Arch Building Elevation Insulation	3	0	0
ABLDGE LAM BEAM	Arch Building Elevation Laminated Beam	0	0	0
ABLDGE LAPPED SIDING	Arch Building Elevation Lapped Wood Siding	0	0	0
ABLDGE LOUVERS	Arch Building Elevation Louvers	0	0	0
ABLDGE MOISTURE BARRIER	Arch Building Elevation Moisture Barrier	0	0	0
ABLDGE NOTES	Arch Building Elevation Arch Building Elevation Notes	0	0	1
ABLDGE PLUMB	Arch Building Elevation Plumbing	0	0	2
ABLDGE PLUMB FIX	Arch Building Elevation Plumbing Fixtures	0	0	1
ABLDGE PLYWOOD FLOOR	Arch Building Elevation Plywood Floor	0	0	0
ABLDGE PLYWOOD SHEAT	Arch Building Elevation Plywood Sheathing	0	0	0
ABLDGE RENOV REMAIN	Arch Building Elevation Arch Building Elevation Renovation Remain	0	0	2
ABLDGE RENOV REMOVE	Arch Building Elevation Arch Building Elevation Renovation Remove	0	0	2
ABLDGE ROOF FELT AND FLASH	Arch Building Elevation Roof Felt and Flashing	0	0	0
ABLDGE ROOF TILES	Arch Building Elevation Roofing Tile	0	0	0
ABLDGE ROOF TRUSS	Arch Building Elevation Wood Roof Truss	0	0	0
ABLDGE ROOM NUM	Arch Building Elevation Room Names and Numbers	0	0	1
ABLDGE SHEATHING WALL	Arch Building Elevation Wall Sheathing	0	0	0
ABLDGE SHINGLES	Arch Building Elevation Shingles	0	0	0
ABLDGE SLAB	Arch Building Elevation Slab on Grade	0	0	0

Architectural Levels					
Name	Description	Color	Style	Weight	
ABLDGE SPEC CONSTR	Arch Building Elevation Special Construction	0	0	0	
ABLDGE STAIRS	Arch Building Elevation Stairs	0	0	1	
ABLDGE STUCCO	Arch Building Elevation Stucco Finish	0	0	0	
ABLDGE WINDOWS	Arch Building Elevation Windows Systems	0	0	0	
ABLDGE WOOD FRAME WALL	Arch Building Elevation Wood Frame Walls	0	0	0	
ABLDGE WOOD VINYL SIDING	Arch Building Elevation Wood or Vinyl Siding	0	0	0	
ABLDGP BEAM CL	Arch Building Plan Beam Centerline	3	4	0	
ABLDGP BEAM EDGE	Arch Building Plan Beam Edge	0	0	0	
ABLDGP BLOCK WALL	Arch Building Plan Concrete Block Wall	0	0	0	
ABLDGP BRICK WALL	Arch Building Plan Brick Wall	0	0	0	
ABLDGP CABINET LOCKER	Arch Building Plan Cabinets and Lockers	0	0	1	
ABLDGP CEILINGS	Arch Building Plan Ceilings	0	0	0	
ABLDGP COLUMNS	Arch Building Plan Columns	0	0	1	
ABLDGP DIMENS	Arch Building Plan Arch Building Plan Dimensions	5	0	1	
ABLDGP DOORS	Arch Building Plan Doors	0	0	1	
ABLDGP ELEC CELLS	Arch Building Plan Electrical	3	2	1	
ABLDGP ELEC HEATING	Arch Building Plan Electrical Heating Systems	3	7	1	
ABLDGP ELEV SHAFT	Arch Building Plan Elevator shafts	0	0	1	
ABLDGP EQUIPT OR MACH	Arch Building Plan Equipment or Machines	0	0	1	
ABLDGP ESCAL	Arch Building Plan Escalators and Moving Walks	0	0	1	
ABLDGP FURNISH	Arch Building Plan Furnishings	0	0	1	
ABLDGP GLASS BLOCK WALL	Arch Building Plan Glass Block Wall	0	0	0	
ABLDGP HANDRAILS	Arch Building Plan Handrails	0	0	0	
ABLDGP HVAC DUCT	Arch Building Plan HVAC Ductwork	0	0	0	
ABLDGP LOUVERS	Arch Building Plan Louvers	0	0	0	
ABLDGP NOTES	Arch Building Plan Arch Building Plan Notes	0	0	1	
ABLDGP PLUMB	Arch Building Plan Plumbing	0	0	2	
ABLDGP PLUMB FIX	Arch Building Plan Plumbing Fixtures	0	0	1	
ABLDGP RENOVA REMAIN	Arch Building Plan Arch Building Plan Renovation Remain	0	0	2	
ABLDGP RENOVA REMOVE	Arch Building Plan Arch Building Plan Renovation Remove	0	0	2	
ABLDGP ROOM NUM	Arch Building Plan Room Names and Numbers	0	0	1	
ABLDGP SPEC CONSTR	Arch Building Plan Special Construction	0	0	0	
ABLDGP STAIRS	Arch Building Plan Stairs	0	0	1	
ABLDGP TEL	Arch Building Plan Telephone Cables	5	5	1	
ABLDGP WALLS	Arch Building Plan Walls	0	0	1	
ABLDGP WINDOW	Arch Building Plan Windows	0	0	0	
ASITEE DECKS	Arch Site Elevation Decks with stairs	0	0	1	
ASITEE DRAIN	Arch Site Elevation Site Drains	0	0	0	
ASITEE FOOTING	Arch Site Elevation Footings	0	0	1	
ASITEE PILES	Arch Site Elevation Piles and Caissons	0	0	1	
ASITEE PLANTS CELL	Arch Site Elevation Trees, Shrubs, and Plants	3	0	3	
ASITEE REBAR	Arch Site Elevation Rebar and Reinforcement	0	3	1	
ASITEE RETAINING	Arch Site Elevation Retaining Walls	0	0	0	

Architectural Levels					
Name	Description	Color	Style	Weight	
ASITEE STAIRS	Arch Site Elevation Outdoor Stairs	0	0	3	
ASITEP DECKING	Arch Site Plan Floating Dock Decking	0	0	1	
ASITEP DECKS	Arch Site Plan Decks with stairs	0	0	1	
ASITEP DRAIN	Arch Site Plan Site Drains	1	3	1	
ASITEP FLOAT DOCK	Arch Site Plan Floating Dock Flotation Base	0	0	1	
ASITEP FOOTING	Arch Site Plan Footings	0	3	1	
ASITEP FOOTPRINT	Arch Site Plan Building Footprint	0	0	3	
ASITEP GANGWAY	Arch Site Plan Gangway	0	0	2	
ASITEP HANDRAIL	Arch Site Plan Handicap Ramp Handrail	0	0	0	
ASITEP IRRIGATION	Arch Site Plan Irrigation	0	0	0	
ASITEP PAVING	Arch Site Plan Paving	0	0	1	
ASITEP PILES	Arch Site Plan Piles and Caissons	0	0	1	
ASITEP RAMP	Arch Site Plan Handicap Ramp	0	0	1	
ASITEP REBAR	Arch Site Plan Rebar and Reinforcement	0	3	1	
ASITEP RET WALL	Arch Site Plan Retaining Walls	0	0	0	
ASITEP SIDEWALK	Arch Site Plan Sidewalks	0	0	1	
ASITEP STAIRS	Arch Site Plan Outdoor Stairs Concrete	0	0	1	
ASITEP TREE	Arch Site Plan Trees, Shrubs and Plants	3	0	3	

Boundary Levels

Boundary Levels					
Name	Description	Color	Style	Weight	
BDRY CL EX 6	Boundary Center Line Of Right Of Way Existing	3	4	0	
BDRY CL PROP 6	Boundary Center Line Of Right Of Way Proposed	3	4	2	
BDRY CL TXT EX 6	Boundary Center Line Text	3	0	1	
BDRY CNCL DST	Boundary Council District	0	0	5	
BDRY CNTY	Boundary County Boundary	17	0	5	
BDRY COM PLNG	Boundary Community Planning	0	0	5	
BDRY CT 5	Boundary CalTrans Right of Way	3	6	4	
BDRY CT ABUT 5	Boundary CalTrans Abutters Rights	3	0	2	
BDRY CT TXT 5	Boundary CalTrans Right of Way Text	3	6	4	
BDRY CTY	Boundary City Boundary	53	0	4	
BDRY ESMT AVIG EX 7	Boundary Easement Aviation Existing	3	3	0	
BDRY ESMT AVIG PROP 7	Boundary Easement Aviation Proposed	3	0	3	
BDRY ESMT DRN EX 7	Boundary Easement Drainage Existing	5	3	0	
BDRY ESMT DRN PROP 7	Boundary Easement Drainage Proposed	5	0	3	
BDRY ESMT GE EX 7	Boundary Easement SDGE Existing	4	3	0	
BDRY ESMT GE PROP 7	Boundary Easement SDGE Proposed Acquisition	4	0	3	
BDRY ESMT GU EX 7	Boundary Easement General Utility Existing	0	3	0	
BDRY ESMT GU PROP 7	Boundary Easement General Utility Proposed Acquisition	0	0	3	
BDRY ESMT IE EX 7	Boundary Easement Ingress/Egress Existing	50	3	0	
BDRY ESMT IE PROP EX 7	Boundary Easement Ingress/Egress Proposed	50	0	3	
BDRY ESMT LINE EX	Boundary Easement Line Existing	0	0	0	
BDRY ESMT OS EX 7	Boundary Easement Open Space Existing	36	3	0	
BDRY ESMT OS PROP 7	Boundary Easement Open Space Proposed Acquisition	36	0	3	
BDRY ESMT PT EX 7	Boundary Easement Point Existing	4	0	0	
BDRY ESMT PT NUM 54	Boundary Easement Point Number	4	0	0	
BDRY ESMT SLP EX 7	Boundary Easement Slope Existing	7	3	0	
BDRY ESMT SLP PROP 7	Boundary Easement Slope Proposed Acquisition	7	0	3	
BDRY ESMT SWR EX 7	Boundary Easement Sewer Existing	2	3	0	
BDRY ESMT SWR PROP 7	Boundary Easement Sewer Proposed Acquisition	2	0	3	
BDRY ESMT TC EX 7	Boundary Easement Temporary Construction Area Proposed	23	0	3	
BDRY ESMT TEL EX 7	Boundary Easement Telco Existing	6	3	0	
BDRY ESMT TEL PROP 7	Boundary Easement Telco Proposed Acquisition	6	0	3	
BDRY ESMT TXT 7	Boundary Easement Text	4	0	0	
BDRY ESMT WTR EX 7	Boundary Easement Water Existing	1	3	0	
BDRY ESMT WTR PROP 7	Boundary Easement Water Proposed Acquisition	1	0	3	
BDRY INTL	Boundary International Boundaries	19	0	5	
BDRY LEASE EX 4	Boundary Lease Existing	3	6	1	
BDRY LEASE PROP 4	Boundary Lease Proposed	3	6	3	
BDRY LEASE PT EX 4	Boundary Lease Point Existing	3	6	1	
BDRY LEASE PT NUM 54	Boundary Lease Point Number	4	0	0	
BDRY LEASE TXT	Boundary Lease Text	4	0	0	

Boundary Levels					
Name	Description	Color	Style	Weight	
BDRY LL EX 4	Boundary Property Line	4	0	0	
BDRY LL TXT EX 4	Boundary Lot Line	4	0	0	
BDRY LS TXT EX 4	Boundary Lot Split	4	6	0	
BDRY MEAS TXT	Boundary Dimension and Measurement Text	0	6	3	
BDRY MHTL	Boundary Mean High Tide Line	0	MHTL	2	
BDRY PARK EX 51	Boundary Park Recreation Boundary Existing	102	1	2	
BDRY PARK PROP 51	Boundary Park Recreation Boundary Proposed	102	0	3	
BDRY PARK PT NUM 54	Boundary Park Point Number	4	0	0	
BDRY PARK TXT	Boundary Park Text	4	0	0	
BDRY PT NUM 54	Boundary Point Number	0	0	0	
BDRY REC TXT 5	Boundary Record Data Text	0	0	0	
BDRY RP EX 6	Boundary Radius Point Existing	3	2	0	
BDRY RP PROP 6	Boundary Radius Point Proposed	3	2	0	
BDRY RP TXT	Boundary Radius Point Text	3	2	0	
BDRY RW EX 5	Boundary Right Of Way Existing	6	0	3	
BDRY RW PROP 5	Boundary Right Of Way Proposed	1	0	3	
BDRY RW TXT EX 5	Boundary Right Of Way Existing	6	0	3	
BDRY SCHL DIST	Boundary School District	0	0	5	
BDRY STRT DED EX 5	Boundary Street Dedication Existing	1	0	0	
BDRY STRT DED PROP 5	Boundary Street Dedication Proposed	1	0	3	
BDRY STRT TXT	Boundary Street Name Text	0	0	2	
BDRY STRT VAC EX 5	Boundary Street Vacation Existing	0	0	0	
BDRY STRT VAC PROP 5	Boundary Street Vacation Proposed	0	0	3	
BDRY SUB EX4	Boundary Subdivision Boundary	5	6	4	
BDRY TXT	Boundary Text	0	0	0	
BDRY WTR PRES ZN	Boundary Water Pressure Zone	0	0	5	
BDRY ZIP	Boundary Zip Code	0	0	5	

Cable TV Levels

CATV Levels					
Name	Description	Color	Style	Weight	
CATV CELL EX 43	Cable TV Structure Cells Existing	6	0	1	
CATV LINE EX 43	Cable TV Line Existing	6	CATV	1	
CATV PNT NUM EX 56	Cable TV Point Number Existing	6	0	1	
CATV TXT EX 43	Cable TV Text Existing	6	0	1	

Electric Levels

Electric Levels					
Name	Description	Color	Style	Weight	
E CELL EX 37	Electric Structure Cell Ex	3	0	1	
E CELL PROP	Electric Structure Cell Prop	3	0	0	
E LINE EX 40	Electric Line Ex	3	ELEC	1	

Electric Levels					
Name	Description	Color	Style	Weight	
E LINE PROP	Electric Line Prop	3	ELEC	0	
E PNT NUM EX 56	Electric Point Number Existing	3	0	1	
E TXT EX 40	Electric Text Ex	3	0	1	
E TXT PROP	Electric Text Prop	3	0	3	

Fuel

Fuel Levels					
Name	Description	Color	Style	Weight	
FUEL CELL EX	Fuel Cell Ex	0	0	0	
FUEL EX	Fuel Ex	28	FUEL	1	
FUEL TXT EX	Fuel Text Ex	28	0	1	

Gas Levels

Gas Levels					
Name	Description	Color	Style	Weight	
GAS CELL EX 41	Gas Structure Cells Existing	4	0	1	
GAS MAIN EX 41	Gas Main Existing	4	0	1	
GAS PNT NUM EX 56	Gas Point Number Existing	4	0	1	
GAS TXT EX 41	Gas Text	4	0	1	

InRoads – Storm and Sanitary

InRoads – Storm and Sanitary Levels					
Name	Description	Color	Style	Weight	
INR ALG LINE	InRoads Alignment Lines	7	0	3	
INR DTM PERMETER	InRoads DTM Perimeter	5	2	3	
INR EGL	InRoads Energy Grad Line	153	2	1	
INR HGL	InRoads Hydraulic Grade Line	0	0	0	
INR PROF AXIS	InRoads Profile Axis	2	0	1	
INR PROF SF LINE	InRoads Profile Surface Lines	5	0	2	
INR UTL	InRoads Utilities	139	0	2	
INR ZN BDRY	InRoads Boundary	7	0	3	

Instrumentation Levels

Instrumentation Levels					
Name	Description	Color	Style	Weight	
INSTR AIR FTNG	Instrumentation Air Fittings	10	0	1	
INSTR AIR MN HD	Instrumentation Air Main Header (by piping)	10	0	0	

Instrumentation Levels					
Name	Description	Color	Style	Weight	
INSTR AIR SUB HD PIPNG	Instrumentation Air Sub-Header Piping	10	0	5	
INSTR AIR SUP ELPS SYM INSTL DTL CO SYM LL TXT	Instrumentation Air Supply Ellipse Symbol Installation Detail CO Symbol Leader Lines Text	10	0	2	
INSTR BRDR	Instrumentation Border	0	0	0	
INSTR CONST ELMT OBJT LN	Instrumentation Construction Elements and Object Lines	3	0	0	
INSTR CONST MTCH LN FOR OPZ FL	Instrumentation Construction Match Lines for OPZ Files	3	6	4	
INSTR CONST PT	Instrumentation Construction Points	7	0	10	
INSTR DIM LL AROW TXT	Instrumentation Dimensioning with Leader Lines Arrowheads and Text	7	0	1	
INSTR ELEC 120VAC INSTR DEV TAG CO TXT	Instrumentation Elec 120VAC Instrumentation Device Tag Callout Text (power required)	5	0	2	
INSTR ELEC 120VAC VEND INSTR DEV TAG CO TXT	Instrumentation Elec 120VAC Vendor Instrumentation Device Tag Callout Text (power required)	53	0	2	
INSTR ELEC 120VAC VEND WIRE CONDT FTNG JBOX	Instrumentation Elec 120VAC Vendor Wire and Conduit Fittings Junction Box (power required)	53	0	2	
INSTR ELEC 120VAC WIRE CONDT FTNG JBOX	Instrumentation Elec 120VAC Wire and Conduit Fittings Junction Box (power required)	5	0	2	
INSTR ELEC 24VDC ALM INSTR DEV TAG CO TXT	Instrumentation Elec 24VDC Alarm Instrumentation Device Tag Callout Text	51	0	2	
INSTR ELEC 24VDC ALM WIRE CONDT FTNG JBOX	Instrumentation Elec 24VDC Alarm Wire and Conduit Fittings Junction Box	51	0	2	
INSTR ELEC 24VDC INSTR DEV TAG CO TXT	Instrumentation Elec 24VDC Instrumentation Device Tag Callout Text	3	0	2	
INSTR ELEC 24VDC VEND INSTR DEV TAG CO TXT	Instrumentation Elec 24VDC Vendor Instrumentation Device Tag Callout Text	115	0	2	
INSTR ELEC 24VDC VEND WIRE CONDT FTNG JBOX	Instrumentation Elec 24VDC Vendor Wire and Conduit Fittings Junction Box	115	0	2	
INSTR ELEC 24VDC WIRE CONDT FTNG JBOX	Instrumentation Elec 24VDC Wire and Conduit Fittings Junction Box	3	0	2	
INSTR ELEC 4 20MA ALRM INSTR DEV TAG CO TXT	Instrumentation Elec 4-20mA Alarm Instrumentation Device Tag Callout Text	15	0	2	
INSTR ELEC 4 20MA ALRM WIRE CONDT FTNG JBOX	Instrumentation Elec 4-20mA Alarm Wire and Conduit Fittings Junction Box	15	0	2	
INSTR ELEC 4 20MA INSTR DEV TAG CO TXT	Instrumentation Elec 4-20mA Instrumentation Device Tag Callout Text	1	0	2	
INSTR ELEC 4 20MA VEND INSTR DEV TAG CO TXT	Instrumentation Elec 4-20mA Vendor Instrumentation Device Tag Callout Text	49	0	2	
INSTR ELEC 4 20MA VEND WIRE CONDT FTNG JBOX	Instrumentation Elec 4-20mA Vendor Wire and Conduit Fittings Junction Box	49	0	2	
INSTR ELEC 4 20MA WIRE CONDT FTNG JBOX	Instrumentation Elec 4-20mA Wire and Conduit Fittings Junction Box	1	0	2	
INSTR ELEC MISC INSTR DEV TAG CO TXT	Instrumentation Elec Misc Instrumentation Device Tag Callout Text (use for 3D model)	11	0	2	
INSTR ELEC MISC WIRE CONDT FTNG JBOX	Instrumentation Elec Misc Wire and Conduit Fittings Junction Box (use for 3D model)	11	0	2	
INSTR ELEC TC INST DEV TAG CO TXT	Instrumentation Elec TC Instrumentation Device Tag Callout Text	2	0	2	
INSTR ELEC TC VEND INST DEV TAG CO TXT	Instrumentation Elec TC Vendor Instrumentation Device Tag Callout Text	50	0	2	

Instrumentation Levels				
Name	Description	Color	Style	Weight
INSTR ELEC TC VEND WIRE CONDT FTNG JBOX	Instrumentation Elec TC Vendor Wire and Conduit Fittings Junction Box	50	0	2
INSTR ELEC TC WIRE CONDT FTNG JBOX	Instrumentation Elec TC Wire and Conduit Fittings Junction Box	2	0	2
INSTR ELMT OBJ LN	Instrumentation Elements and Object Lines	0	0	1
INSTR GEN TXT LGD SCH GN WP	Instrumentation General Text Legends Schedules Gen. Notes and Working Points	4	0	1
INSTR GRID COLMN CO BBL TXT	Instrumentation Grid and Column Callout Bubbles w/Text	5	0	1
INSTR GRID LN COLMN CL	Instrumentation Grid Lines and Column Centerlines	5	4	0
INSTR HYD SYM	Instrumentation Hydraulic Symbology	111	0	2
INSTR MTCH LN	Instrumentation Match Lines	0	6	10
INSTR PLAT ELEV CO LL TXT	Instrumentation Platforms Elevation Callouts Leader Lines and Text	12	0	1
INSTR PLAT GRAT CHKR PLT ERTH CONC SND SYM	Instrumentation Platform Grating Checker Plate Earth Concrete Sand Symbology	12	0	0
INSTR PLT SHP	Instrumentation Plot Shape	5	0	0
INSTR PNMMAT INSTR DEV TAG CO TXT	Instrumentation Pneumatic Instrumentation Device Tag Callout Text	70	0	2
INSTR PRO CONN INSTR DEV TAG CO TXT	Instrumentation Process Connection Instrumentation Device Tag Callout Text	6	0	2
INSTR REV CLD	Instrumentation Revision Clouds	6	0	2
INSTR REV DLTA	Instrumentation Revision Deltas	6	0	2
INSTR RUB STMP	Instrumentation Rubber Stamps	3	0	0
INSTR SEC DTL ELEV CO SYM TXT	Instrumentation Section Detail and Elevation Callout Symbols w/Text	0	0	1
INSTR SUPRT INSTL DET CO SYM LL TEXT	Instrumentation Supports Installation Detail Callout Symbols Leader Lines Text	60	6	2
INSTR TB	Instrumentation Title Block	4	0	0
INSTR TBL CHRT	Instrumentation Tables and Charts	0	0	0

Irrigation Levels

Irrigation Levels				
Name	Description	Color	Style	Weight
IRR CELL EX	Irrigation Cell Ex	1	0	0
IRR CELL PROP	Irrigation Cell Prop	1	0	0
IRR DRP IRR EX	Irrigation Drip Ex	1	3	1
IRR DRP IRR PROP	Irrigation Drip Prop	1	3	1
IRR LINE EX	Irrigation Line Ex	1	3	1
IRR LINE PROP	Irrigation Line Prop	1	3	1

Irrigation Levels					
Name	Description	Color	Style	Weight	
IRR PNT NUM EX 56	Irrigation Point Number Existing	1	0	1	
IRR TXT EX	Irrigation Text Ex	1	0	1	
IRR TXT PROP	Irrigation Text Prop	1	0	1	
IRR WRG EX	Irrigation Wiring Ex	1	3	1	
IRR WRG PROP	Irrigation Wiring Prop	1	3	1	

Landscape Levels

Landscape Levels					
Name	Description	Color	Style	Weight	
L CELL EX	Landscape Cell Ex	0	0	0	
L CELL PROP	Landscape Cell Prop	0	0	0	
L LINE EX	Landscape Line Ex	0	0	0	
L LINE PROP	Landscape Line Prop	0	0	0	
L PNT NUM EX 56	Landscape Point Number Existing	2	0	0	
L TXT EX	Landscape Text Ex	2	0	0	
L TXT PROP	Landscape Text Prop	2	0	0	
L VEG CELL EX	Landscape Vegetation Cell Ex	2	0	0	
L VEG LINE EX	Landscape Vegetation Line Ex	2	0	0	

Mechanical Levels

Mechanical Levels					
Name	Description	Color	Style	Weight	
M DBL PIPE EX	Mechanical Double Line Pipe Fitting and Valve Exist	3	0	3	
M DBL PIPE PROP	Mechanical Double Line Pipe Fitting and Valve Prop	3	2	3	
M SING PIPE EX	Mechanical Single Line Pipe Fitting and Valve Ex	4	0	6	
M SING PIPE PROP	Mechanical Single Line Pipe Fitting and Valve Prop	4	2	6	
M STRUCTURES CELLS EX	Mechanical Structures Cells Ex	0	0	1	
M STRUCTURES CELLS PROP	Mechanical Structures Cells Prop	0	2	1	
M STRUCTURES EX	Mechanical Structures Ex	0	0	1	
M STRUCTURES PROP	Mechanical Structures Prop	0	2	1	
M TXT EX	Mechanical Text Ex	6	0	1	
M TXT PROP	Mechanical Text Prop	6	0	3	

Recycled Water Levels

Recycled Water Levels					
Name	Description	Color	Style	Weight	
RW AIR RELS VALV EX	Recycled Water Air Release Valve Ex	15	0	1	
RW AIR RELS VALV PROP	Recycled Water Air Release Valve Prop	15	0	2	
RW BO EX	Recycled Water Blow Off Valve Ex	15	0	1	

Recycled Water Levels					
Name	Description	Color	Style	Weight	
RW BO PROP	Recycled Water Blow Off Valve Prop	15	0	2	
RW CELL EX	Recycled Water Structures Cell Ex	15	0	1	
RW CELL PROP	Recycled Water Structures Cell Prop	15	0	2	
RW GRND MON WELL EX	Recycled Water Ground Monument Well Ex	15	0	1	
RW GRND MON WELL PROP	Recycled Water Ground Monument Well Prop	15	0	2	
RW MAIN EX	Recycled Water Main Ex	15	3	1	
RW MAIN PROP	Recycled Water Main Prop	15	0	9	
RW MAIN TRANS EX	Recycled Water Mains Transmission Ex	15	3	1	
RW MAIN TRANS PROP	Recycled Water Mains Transmission Prop	15	0	9	
RW MH EX	Recycled Water Manhole Ex	15	0	1	
RW MH PROP	Recycled Water Manhole Prop	15	0	2	
RW MTR EX	Recycled Water Meter Ex	15	3	1	
RW MTR PROP	Recycled Water Meter Prop	15	0	2	
RW PT NUM 56	Recycled Water Point Number	1	0	0	
RW RED EX	Recycled Water Reducer Ex	15	0	1	
RW RED PROP	Recycled Water Reducer Prop	15	0	2	
RW RIS EX	Recycled Water Riser Ex	15	0	1	
RW RIS PROP	Recycled Water Riser Prop	15	0	2	
RW SERV EX	Recycled Water Service Ex	15	3	1	
RW SERV PROP	Recycled Water Service Prop	15	0	2	
RW TEE EX	Recycled Water Tee Ex	15	0	1	
RW TEE PROP	Recycled Water Tee Prop	15	0	2	
RW TEXT EX	Recycled Water Text Ex	15	3	1	
RW TEXT PROP	Recycled Water Text Prop	15	0	3	
RW VALV EX	Recycled Water Valve Ex	15	0	1	
RW VALV PROP	Recycled Water Valve Prop	15	0	2	
RW VLT EX	Recycled Water Vault Ex	15	0	1	

Sewer Levels

Sewer Levels					
Name	Description	Color	Style	Weight	
SWR CELL EX 22	Sewer Cell Existing	2	0	1	
SWR CELL PROP 27	Sewer Cell Proposed	2	0	3	
SWR IE EX 25	Sewer IE Existing	4	0	0	
SWR LAT EX 23	Sewer Lateral Existing	2	EXSM	1	
SWR LAT IE EX 23	Sewer Lateral IE Existing	4	0	0	
SWR LAT PROP 27	Sewer Lateral Proposed	2	PSM	9	
SWR MAIN EX 22	Sewer Main Existing	2	EXSM	1	
SWR MAIN PROP 27	Sewer Main Proposed	2	PSM	9	
SWR PT NUM 56	Sewer Point Number	2	0	0	
SWR SLUDGE EX	Sewer Sludge Line Pressured Ex	0	0	0	
SWR SLUDGE TXT EX	Sewer Sludge Text Ex	0	0	0	
SWR TXT EX 25	Sewer Text Existing	2	0	2	

Sewer Levels				
Name	Description	Color	Style	Weight
SWR TXT PROP 29	Sewer Text Proposed	2	0	3

Sheet Information

Sheet Information Levels				
Name	Description	Color	Style	Weight
SHTINF BORDER	Sheet Information Border	0	0	0
SHTINF BORDER TITLE	Sheet Information Borders and Titles	3	0	0
SHTINF CELL	Sheet Information Cells	0	0	0
SHTINF DETAIL CELLS	Sheet Information Details Cells	0	0	0
SHTINF DIMEN	Sheet Information Dimension	0	0	1
SHTINF LINE	Sheet Information Lines	0	0	0
SHTINF MAJOR GRID	Sheet Information Major Grid	4	0	0
SHTINF MINOR GRID	Sheet Information Minor Grid	2	0	0
SHTINF NORTH SCALE	Sheet Information North Arrows and Scale	0	0	1
SHTINF REF BDRY	Sheet Information Reference Boundaries	0	0	1
SHTINF TXT EX 62	Sheet Information Text or Notes	0	0	1

Storm Drain

Storm Drain Levels				
Name	Description	Color	Style	Weight
SD BD CELL EX 30	Storm Drain Brow Ditch Ex	0	0	0
SD CELL EX 30	Storm Drain Structures Cell Ex	0	0	0
SD CELL PROP	Storm Drain Structures Cell Prop	0	0	0
SD FLD CHAN EX 30	Storm Drain Flood Channel	0	0	0
SD FLD CHAN PROP 30	Storm Drain Flood Channel	0	CHAN NEL	5
SD HW EX 30	Storm Drain Headwall	0	0	1
SD HW PROP 30	Storm Drain Headwall	0	0	5
SD IE EX 30	Storm Drain Invert Elevation	0	0	1
SD IE PROP 30	Storm Drain Invert Elevation	0	0	2
SD LINE EX 30	Storm Drain Line	0	0	0
SD MAIN EX 30	Storm Drain Main Ex	0	0	1
SD MAIN PROP	Storm Drain Main Prop	0	SD	5
SD MH EX 30	Storm Drain Manhole Existing	0	0	0
SD MH PROP 30	Storm Drain Manhole Proposed	0	0	5
SD PT NUM 56	Storm Drain Point Number	0	0	0
SD SLT DRN EX	Storm Drain Slotted Drain	0	3	0
SD SLT DRN PROP	Storm Drain Slotted Drain	0	SD	5
SD SW DRN EX 30	Storm Drain Sidewalk Under Drain	0	3	0
SD SW DRN PROP 30	Storm Drain Sidewalk Under Drain	0	SD	5
SD SWL EX 30	Storm Drain Swale	0	3	0
SD SWL PROP 30	Storm Drain Swale	0	0	5
SD TXT EX 30	Storm Drain Text Ex	0	0	1
SD TXT PROP	Storm Drain Text Prop	0	0	5
SD XGUT EX 30	Storm Drain Cross Gutter	0	3	0
SD XGUT PROP 30	Storm Drain Cross Gutter	0	0	5

Structural

Structural Levels				
Name	Description	Color	Style	Weight
STR CONSTRT JT PROP	Structural Constructional Joint Prop	8	0	0
STR DIM PROP	Structural Dimension Prop	7	0	1
STR FOOTPRINT PROP	Structural Footprint Prop	1	0	0
STR FRAMING PROP	Structural Framing Prop	0	0	3
STR GRATE PROP	Structural Grating Prop	4	0	0
STR GRID CL PROP	Structural Grid Line and Centerline Prop	1	4	0
STR HID LINE PROP	Structural Hidden Line Prop	3	3	1
STR LAD MET STRTRAP PROP	Structural Ladders Metal Prop	4	0	1
STR LAYOUT PROP	Structural Layout Prop	2	0	1
STR LEADER LINE PROP	Structural Leader Line Prop	6	0	1

Structural Levels					
Name	Description	Color	Style	Weight	
STR MISTR PROP	Structural Misc Prop	2	0	0	
STR RAILING PROP	Structural Railing Prop	4	6	0	
STR REBAR PROP	Structural Rebar Prop	5	0	3	
STR REBAR REQ PROP	Structural Rebar when required Prop	5	3	0	
STR TXT PROP	Structural Text Prop	6	0	0	

Surface Feature Levels

Surface Feature Levels					
Name	Description	Color	Style	Weight	
SF AC BRM CELL EX 16	Surface Ac Berm Cell Existing	0	0	0	
SF AC BRM EX 16	Surface Ac Berm Existing	0	0	0	
SF AC BRM FL CELL EX 16	Surface Ac Flowline Cell Existing	0	0	0	
SF AC BRM FL EX 16	Surface Ac Flowline Existing	0	0	0	
SF BK RC CELL EX 16	Surface Back Of Rolled Curb Cell Existing	0	0	0	
SF BK RC EX 16	Surface Back Of Rolled Curb Existing	0	0	0	
SF BLDG CD FF EX 17	Surface Building Center Door & Finish Floor	0	0	0	
SF BLDG CELL EX 17	Surface Building Cell	0	0	0	
SF BLDG EX 17	Surface Building Line	0	0	0	
SF BLDG TXT EX 17	Surface Building Text	0	0	0	
SF BRDG CELL EX 39	Surface Bridge Cell Abutment	0	0	0	
SF BRDG EX 39	Surface Bridge Abutment	0	0	0	
SF CONT MAJ EX 12	Surface Contours Major Existing	2	0	2	
SF CONT MAJ PROP 12	Surface Contours Major Proposed	1	0	4	
SF CONT MIN EX 10	Surface Contours Minor Existing	1	2	0	
SF CONT MIN PROP 10	Surface Contours Minor Proposed	2	2	1	
SF CONT TXT EX 13	Surface Contour Major Text Existing	0	0	1	
SF CONT TXT PROP 13	Surface Contour Major Text Proposed	0	0	0	
SF DTM EXTERIOR 1	Surface DTM Exterior 1	0	2	0	
SF DTM EXTERIOR 2	Surface DTM Exterior 2	0	3	0	
SF DTM INTERIOR 1	Surface DTM Interior 1	0	5	0	
SF DTM INTERIOR 2	Surface DTM Interior 2	0	7	0	
SF DTM LINE 1	Surface DTM Line 1	0	0	0	
SF DTM LINE 2	Surface DTM Line 2	0	0	0	
SF DTM POINT 1	Surface DTM Point 1	0	0	0	
SF DTM POINT 2	Surface DTM Point 2	0	0	0	
SF DTM PT NUM 56	Surface Text Dtm Point Number	0	0	0	
SF DTM TXT	Surface Text Digital Terrain Model	0	0	0	
SF EDG CONC CELL EX 16	Surface Edge Of Concrete Cell	0	0	0	
SF EDG CONC EX 16	Surface Edge Of Concrete	0	0	0	
SF EX GRD	Surface Existing Ground	0	0	0	
SF EX PAV EX 16	Surface Existing Pavement	0	0	0	
SF FNC DTM EX 15	Surface Fence DTM Points Existing	0	0	0	
SF FNC DTM LINES EX 15	Surface Fence DTM Lines Existing	0	0	0	

Surface Feature Levels				
Name	Description	Color	Style	Weight
SF FNC LINES EX 15	Surface Fence Non-DTM Lines Existing	0	0	0
SF FNC NON DTM EX 15	Surface Fence Lines Non DTM Existing	0	0	0
SF FNC PNT NUM EX 56	Surface Fence Point Number Existing	0	0	0
SF FNC PROP 15	Surface Fence Proposed	0	0	0
SF FNC TXT	Surface Fence Text	0	0	0
SF GB AC CELL EX 16	Surface Grade Break Ac Cell Existing	0	0	0
SF GB AC EX 16	Surface Grade Break Ac Existing	0	0	0
SF GB CONC CELL EX 16	Surface Grade Break Concrete Cell Existing	0	0	0
SF GB CONC EX 16	Surface Grade Break Concrete Existing	0	0	0
SF GB DAYLT CELL EX 16	Surface Daylight Cell Existing	7	0	0
SF GB DAYLT EX 16	Surface Daylight Existing	7	0	0
SF GB DAYLT PROP 16	Surface Daylight Proposed	7	0	1
SF GB DRT CELL EX 16	Surface Grade Break Dirt Cell Existing	7	0	0
SF GB DRT EX 16	Surface Grade Break Dirt Existing	7	0	0
SF GB GRS CELL EX 16	Surface Grade Break Grass Cell Existing	2	0	0
SF GB GRS EX 16	Surface Grade Break Grass Existing	2	0	0
SF GB PNT NUM EX 56	Surface Grade Break Point Number Existing	6	0	0
SF GB RPRP CELL EX 16	Surface Rip Rap Cell Existing	0	0	0
SF GB RPRP EX 16	Surface Rip Rap Existing	0	0	0
SF GB TOE CELL EX 16	Surface Toe Of Slope Cell Existing	7	0	0
SF GB TOE EX 16	Surface Toe Of Slope Existing	7	0	0
SF GB TOP CELL EX 16	Surface Top Of Slope Cell Existing	6	0	0
SF GB TOP EX 16	Surface Top Of Slope Existing	6	0	0
SF GB TXT	Surface Grade Break Text	0	0	0
SF GB URP CELL EX 16	Surface Unimpr Road Or Path Cell Existing	7	0	0
SF GB URP EX 16	Surface Unimpr Road Or Path Existing	7	0	0
SF GUT CELL EX 16	Surface Gutter Cell Existing	6	0	0
SF GUT EX 16	Surface Gutter Existing	6	0	0
SF LIP CELL EX 16	Surface Lipline Cell Existing	0	0	0
SF LIP EX 16	Surface Lipline Existing	0	0	0
SF MISC EX 52	Surface Sign Statue Nonbuilding Structures Mailbox	0	0	0
SF MISC LN EX 52	Surface Miscellaneous Line	0	0	0
SF MISC PT EX 52	Surface Miscellaneous Point	0	0	0
SF MISC PT NUM 56	Surface Miscellaneous Point Number	0	0	0
SF MISC TXT	Surface Miscellaneous Text	0	0	0
SF MOW ST CELL EX 16	Surface Mow Strip Cell Existing	0	0	0
SF MOW ST EX 16	Surface Mow Strip Existing	0	0	0
SF MOW ST PROP 16	Surface Mow Strip Proposed	0	0	1
SF PR OR CD CELL EX 14	Surface Pedestrian Ramp/ Center Of Driveway Existing	0	0	0
SF RAIL CELL EX 45	Surface Rail Train & Trolley Cell Existing	5	0	0
SF RAIL EX 45	Surface Rail Train & Trolley Existing	5	0	0
SF RAIL TXT EX 45	Surface Rail Text	5	0	0
SF SND LN 19	Surface Sounding Line	1	0	0
SF SND PT CELL 19	Surface Sounding Point	1	0	0
SF SPT EL EX 14	Surface Spot Elevation Improved & Unimproved	0	0	0

Surface Feature Levels					
Name	Description	Color	Style	Weight	
	Existing				
SF SW CONC CELL EX 16	Surface Sidewalk Cell Existing	0	0	0	
SF SW CONC EX 16	Surface Sidewalk Existing	0	0	0	
SF SW CONC PROP 16	Surface Sidewalk Proposed	0	0	1	
SF TCF CELL EX 16	Surface Top of Curb at Face Cell Existing	0	0	0	
SF TCF EX 16	Surface Top of Curb at Face Existing	0	0	0	
SF TRIANG1 EX 55	Surface Triangles 1	3	0	0	
SF TRIANG2 EX 55	Surface Triangles 2	2	0	0	
SF TRIANG3 EX 55	Surface Triangles 3	6	0	0	
SF UTIL POLE ACH DEAD EX 40	Surface Utility Pole Anchor and Deadman	6	0	0	
SF UTIL POLE UN EX 40	Surface Utility Pole with Underground	3	0	0	

Survey Levels

Survey Levels					
Name	Description	Color	Style	Weight	
SUR ARL LGND	Survey Aerial Legend	0	0	2	
SUR ARL MPG BDRY 1	Survey Aerial Mapping Boundary 1	3	0	8	
SUR ARL MPG BDRY 2	Survey Aerial Mapping Boundary 2	1	0	8	
SUR ARL MPG BDRY 3	Survey Aerial Mapping Boundary 3	4	0	8	
SUR ARL ORTH BDRY	Survey Aerial Ortho Boundary	2	0	8	
SUR ARL PCL BDRY	Survey Aerial Parcel Boundary	6	0	1	
SUR ARL PCL BDRY TXT	Survey Aerial Parcel Boundary Text	0	0	2	
SUR ARL RPLM BDRY	Survey Aerial Replumb Boundary	5	0	8	
SUR ARL STRT LINE	Survey Aerial Street Line	0	0	1	
SUR ARL STRT TXT	Survey Aerial Street Text	0	0	2	
SUR ARL SWR MH CELL	Survey Aerial Sewer Manhole Cell	4	0	1	
SUR ARL SWR MH LINE	Survey Aerial Sewer Manhole Line	4	0	1	
SUR ARL SWR MH TXT	Survey Aerial Sewer Manhole Text	0	0	2	
SUR ARL TRGT CELL	Survey Aerial Target Cell	5	0	2	
SUR ARL TRGT TXT	Survey Aerial Target Text	5	0	2	
SUR ARL WTR MN LINE	Survey Aerial Water Main Line	1	0	1	
SUR ARL WTR MTR CELL	Survey Aerial Water Meter Cell	1	0	2	
SUR ARL WTR VLV CELL	Survey Aerial Water Valve Cell	168	0	2	
SUR BL CELL EX 8	Survey Base Line Cell	3	0	0	
SUR BL EX 8	Survey Base Line	3	6	0	
SUR BL PT NUM EX 54	Survey Base Line Point Number	3	0	1	
SUR BL TXT EX 8	Survey Base Line Text	3	0	1	
SUR CALC 8	Survey Calculated Point	0	0	0	
SUR CALC PN 54	Survey Calculated Point Number	0	0	0	
SUR CALC TXT	Survey Calculated Point Text	0	0	0	
SUR CHK EX 8	Survey Check Shot	4	0	0	
SUR CNT EX 8	Survey Control	0	0	0	
SUR CNT PT NUM EX 54	Survey Control Point Number	0	0	0	

Survey Levels					
Name	Description	Color	Style	Weight	
SUR CNT TXT EX 8	Survey Control Text	0	0	0	
SUR DEF EX 57	Survey Default Level	4	0	0	
SUR GRD EX 60	Survey Coordinate Grid	0	0	0	
SUR GRD TXT EX 60	Survey Coordinate Label	0	0	0	
SUR MON EX 8	Survey Record and Found Monumentation	0	0	1	
SUR MON PT NUM EX 54	Survey Record Monumentation Point Number	0	0	1	
SUR MON TXT EX 8	Survey Record Monumentation Text	0	0	1	
SUR TRAV CELL EX 8	Survey Traverse Cell	2	3	0	
SUR TRAV EX 8	Survey Traverse Line	2	2	0	

Telephone Levels

Telephone Levels					
Name	Description	Color	Style	Weight	
TEL CELL EX 42	Telephone Structure Cell Ex	6	0	1	
TEL FIB OPT CELL EX	Telephone Fiber Optic Cell Existing	6	0	1	
TEL LINE EX 42	Telephone Line Ex	6	2	1	
TEL PNT NUM EX 56	Telephone Point Number Existing	6	0	1	
TEL TXT EX 42	Telephone Text Ex	6	0	1	

Traffic Levels

Traffic Levels					
Name	Description	Color	Style	Weight	
TRAF CELL EX	Traffic Structure Cell Existing	0	0	0	
TRAF CELL PROP	Traffic Structure Cell Proposed	0	0	0	
TRAF EQ ABGRD CNTRL EX	Traffic Equipment Above Ground Controller Existing	234	0	3	
TRAF EQ ABGRD CNTRL PROP	Traffic Equipment Above Ground Controller Proposed	5	0	3	
TRAF EQ ABGRD CNTRL SALV	Traffic Equipment Above Ground Controller Salvage	3	1	0	
TRAF EQ ABGRD MSC EX	Traffic Equipment Above Ground Misc. Existing	234	0	3	
TRAF EQ ABGRD MSC PROP	Traffic Equipment Above Ground Misc. Proposed	7	0	3	
TRAF EQ ABGRD MSC SALV	Traffic Equipment Above Ground Misc. Salvage	7	2	1	
TRAF EQ ABGRD MTR EX	Traffic Equipment Above Ground Meter Existing	234	0	3	
TRAF EQ ABGRD MTR PROP	Traffic Equipment Above Ground Meter Proposed	2	0	0	
TRAF EQ ABGRD MTR SALV	Traffic Equipment Above Ground Meter Salvage	2	2	0	
TRAF EQ ABGRD OHD UTL EX	Traffic Equipment Above Ground Overhead Utility Existing	234	0	3	
TRAF EQ ABGRD OHD UTL PROP	Traffic Equipment Above Ground Overhead Utility Proposed	3	0	0	
TRAF EQ ABGRD OHD UTL SALV	Traffic Equipment Above Ground Overhead Utility Salvage	3	2	0	
TRAF EQ ABGRD PB EX	Traffic Equipment Above Ground Pull Box Existing	234	0	3	
TRAF EQ ABGRD PB PROP	Traffic Equipment Above Ground Pull box Proposed	7	0	3	
TRAF EQ ABGRD PB SALV	Traffic Equipment Above Ground Pull Box Salvage	7	2	1	

Traffic Levels				
Name	Description	Color	Style	Weight
TRAF EQ ABGRD POLES EX	Traffic Equipment Above Ground Poles Existing	234	0	3
TRAF EQ ABGRD POLES PROP	Traffic Equipment Above Ground Poles Proposed	5	0	2
TRAF EQ ABGRD POLES SALV	Traffic Equipment Above Ground Poles Salvage	3	2	0
TRAF EQ ABGRD STRT LT EX	Traffic Equipment Above Ground Street Light Existing	234	0	3
TRAF EQ ABGRD STRT LT PROP	Traffic Equipment Above Ground Street Light Proposed	3	0	2
TRAF EQ ABGRD STRT LT SALV	Traffic Equipment Above Ground Street Light Salvage	3	2	0
TRAF EQ UNGRD COND EX	Traffic Equipment Underground Conduit Existing	234	4	0
TRAF EQ UNGRD COND PROP	Traffic Equipment Underground Conduit Proposed	3	4	3
TRAF EQ UNGRD COND SALV	Traffic Equipment Underground Conduit Salvage	3	4	3
TRAF EQ UNGRD LOOPS EX	Traffic Equipment Underground Loops Existing	234	0	3
TRAF EQ UNGRD LOOPS PROP	Traffic Equipment Underground Loops Proposed	1	0	2
TRAF EQ UNGRD RAIL EX	Traffic Equipment Underground Rail/Trolley Existing	234	0	3
TRAF EQ UNGRD RAIL PROP	Traffic Equipment Underground Rail/Trolley Proposed	0	0	0
TRAF MA SIGN EX	Traffic Mast Arms Signs Ex	234	0	3
TRAF MA SIGN PROP	Traffic Mast Arms Signs Prop	2	0	2
TRAF MA SIGN SALV	Traffic Mast Arms Signs Salvaged	2	3	0
TRAF PAVE MARKINGS EX	Traffic Pavement Markings EX	234	0	3
TRAF PAVE MARKINGS PROP	Traffic Pavement Markings Prop	0	0	1
TRAF PNT NUM	Traffic Point Number Existing	0	0	1
TRAF PT SIGN EX	Traffic Post Signs Ex	234	0	3
TRAF PT SIGN PROP	Traffic Post Signs Prop	0	0	2
TRAF PT SIGN SALV	Traffic Post Signs Salvaged	0	3	0
TRAF STRP EX	Traffic Striping Existing	234	0	3
TRAF STRP PROP	Traffic Striping Proposed	0	0	0
TRAF TXT EX	Traffic Text Existing	0	0	1
TRAF TXT PROP	Traffic Text Proposed	0	0	1

Water Distribution Levels

Water Distribution Levels				
Name	Description	Color	Style	Weight
WDIST CHANNEL EX 20	Water Distrib. Channel Ex	1	0	1
WDIST CHANNEL PROP 26	Water Distrib. Channel Prop	1	0	3
WDIST CONNECT EX 20	Water Distrib. Connection Ex	1	0	1
WDIST CONNECT PROP 26	Water Distrib. Connection Prop	1	0	3
WDIST CORP STOP EX 20	Water Distrib. Corp Stop Ex	1	0	1
WDIST CORP STOP PROP 26	Water Distrib. Corp Stop Prop	1	0	3
WDIST DAM EX 20	Water Distrib. Dam Ex	1	0	1
WDIST DAM PROP 26	Water Distrib. Dam Prop	1	0	3
WDIST FILTR PLANT EX 20	Water Distrib. Filtration Plant Ex	1	0	1
WDIST FILTR PLANT PROP 26	Water Distrib. Filtration Plant Prop	1	0	3
WDIST LAKE EX	Water Distrib. Lake	1	7	0
WDIST PNT NUM EX 56	Water Distribution Point Number Existing	1	3	1
WDIST PUMP EX 20	Water Distrib. Pump Ex	1	0	1
WDIST PUMP PROP 26	Water Distrib. Pump Prop	1	0	3
WDIST PUMP STA EX 20	Water Distrib. Pump Station Ex	1	0	1
WDIST PUMP STA PROP 26	Water Distrib. Pump Station Prop	1	0	3
WDIST RAW RESVR EX 21	Water Distrib. Raw Reservoir Ex	1	0	1
WDIST RAW RESVR PROP 26	Water Distrib. Raw Reservoir Prop	1	0	3
WDIST RESVR EX 20	Water Distrib. Reservoir Ex	1	0	1
WDIST RESVR PROP 26	Water Distrib. Reservoir Prop	1	0	3
WDIST STRM EX 19	Water Distrib. Stream Ex 19	1	STRE AM	0
WDIST TANK EX 20	Water Distrib. Tank Ex	1	0	1
WDIST TANK PROP 26	Water Distrib. Tank Prop	1	0	3
WDIST TEST STA EX 20	Water Distrib. Test Station Ex	1	0	0
WDIST TEST STA PROP 26	Water Distrib. Test Station Prop	1	0	3
WDIST TUNNEL EX 20	Water Distrib. Tunnel Ex	1	0	1
WDIST TUNNEL PROP 26	Water Distrib. Tunnel Prop	1	0	3
WDIST TXT EX 20	Water Distrib. Text Ex	1	3	1
WDIST TXT PROP 20	Water Distrib. Text Prop	1	3	1
WDIST WELL EX 20	Water Distrib. Well Ex	1	0	1
WDIST WELL PROP 26	Water Distrib. Well Prop	1	0	3

Water Levels

Water Levels				
Name	Description	Color	Style	Weight
WTR CELL EX 20	Water Structure Cell Existing	0	0	0
WTR CELL PROP 26	Water Structure Cell Proposed	0	0	0
WTR MAIN EX 20	Water Main Existing	1	EXWM	1
WTR MAIN PROP 26	Water Main Proposed	1	PWM	9
WTR PNT NUM EX 20	Water Point Number Existing	1	0	1
WTR SERV EX 21	Water Service Existing	1	EXWM	1
WTR SERV PROP 26	Water Service Proposed	1	PWM	9
WTR TXT EX 24	Water Text Existing	1	0	1
WTR TXT PROP 28	Water Text Proposed	1	0	3

6 – Cell Libraries

There are eight standard cell libraries for the City of San Diego. Cells in all libraries are designed to be placed at cell scale factor=1 on a drawing, which will be plotted at 40 scale. All cells are created on their corresponding named level.

The current standards libraries are:

Cell Library	Description
V8 City Notes.cel	Contains typical notes used throughout the City
V8 City Details.cel	Contains typical details used throughout the City
V8 City Existing.cel	Contains symbols for existing utilities
V8 City Proposed.cel	Contains symbols for proposed utilities and plot sheets
V8 City Traffic Notes & Details.cel	Contains typical notes and details to be used on traffic plans.
V8 City Traffic Legend.cel	Contains typical street legends to be used on traffic plans
V8 City Traffic Eq.cel	Contains typical equipment to be used on traffic plans.
V8 City Traffic Features.cel	Contains typical surface features to be used on traffic plans.
Additional Library	Description
V8 State Sign.cel	CalTrans Library for signs. Converted to be used with City seed files and levels.

The following tables list the contents of each cell library by cell name and description. Graphical depictions are shown in the appendices.

V8 City Notes.cel

V8 City Notes.cel	
Cell Name	Cell Description
ADDENDUM TITLE	ADDENDUM A TITLE INFO
ASBUILT TITLE	ASBUILT TITLE
CITY FOR AHD WRK CUT PLUG	CITY FORCES AHEAD WORK CUT & PLUG
CONST CHG TITLE	CONSTRUCTION CHANGES
CONTRAC WORK FIRE HYDRANT	WORK BY CONTRACTOR FURNISH FH
CONTRACT WORK	WORK BY CONTRACTOR
EX UTILITY CROSS	EXISTING UTILITIES CROSSING
EXTM CAUTION	USE EXTREME CAUTION
FILE PATH AND DATE	PLOT FILE NAME & DATE
GAS ADV NOTICE	ADVANCED GAS NOTICE
POTHOLE SEWER LAT REPLUMB	LOCATE BY POTHOLE SEWER LATERALS
POTHOLE SWR LAT BY STA	POTHOLE ALL SEWER
SDGE ADV NOTICE	ADV NOTICE CALLOUT
SDGE PP SUPPORT	COORDINATE WITH SDG E
TITLE BLOCK	TITLE BLOCK REV 652

V8 City Details.cel

V8 City Details.cel	
Cell Name	Cell Description
ANODE JBOX	ANODE JUNCTION BOX
ANODE MAGNESIUM	ANODE MAGNESIUM
ANODE MULTI JBOX	ANODE MULTIPLE JUNCTION BOX
ANODE TYP	ANODE TYPICAL
BELL SPIGOT LINER PLATE	BELL SPIGOT LINER PLATE
BELL SPIGOT WELD	BELL SPIGOT WELD
BUTT STRAP DETAIL	BUTT STRAP DETAIL
BUTT STRAP SPLICE	BUTT STRAP SPLICE
CLOSURE ACCESS PIPE	CLOSURE ACCESS PIPE
CLOSURE DETAIL	CLOSURE DETAIL
COMM DISPLAY HORIZ	COMMUNITY DISPLAY HORIZ
COMM DISPLAY VERT	COMMUNITY DISPLAY VERT
DATE STAMP	DATE LAST REVISED
DBL WELD FIELD JOINT	DOUBLE WELDD FIELD JOINT
DBL WELD LAP JOINT	DOUBLE WELD LAP JOINT
END CONNECTION	END CONNCETION
END CONNECTOR RINGS	END CONNECTOR RINGS
EXOTHERMIC WELD	EXOTHERMIC WELD
FIBER ROLL	FIBER ROLL
INSUL FLANGE DIELECTRIC	INSULATION FLANGE FIELECTRIC
INSUL SHEET	INSULATION SHEET
LINER PLATE STRAP	LINER PLATE STRAPPING
MECH JOINT	MECHANICAL JOINT
SD CB PROTECTION 1	SD CATCH BASIN PROTECTION 1
SD CB PROTECTION 2	SD CATCH BASIN PROTECTION 2
SD INLET PROTECTION	SD INLET PROTECTION
SILT FENCE DETAIL	SILT FENCE DETAIL
SILT FENCE NOTES	SILT FENCE NOTES
STAB CONST ENTRANCE	STABILIZED CONSTRUCITON ENTRANCE
TEST STATION 2 WIRE	2 WIRE TEST STATION
TEST STATION HOUSING	TEST STATION HOUSING
TEST STATION INSUL FLANGE	TEST STATION INSULATION FLANGE
TYP SEC	TYPICAL SECTION
WATER HORIZ CROSSING	WATER HORIZ CROSSING
WIRE INDENTIFIER	WIRE INDENTIFIER

V8 City Existing.cel

V8 City Existing.cel	
Cell Name	Cell Description
10 SCALE GRAPHIC	10 SCALE GRAPHIC
100 SCALE GRAPHIC	100 SCALE GRAPHIC
1000 SCALE GRAPHIC	1000 SCALE GRAPHIC
20 SCALE GRAPHIC	20 SCALE GRAPHIC
30 SCALE GRAPHIC	30 SCALE GRAPHIC
40 SCALE GRAPHIC	40 SCALE GRAPHIC
50 SCALE GRAPHIC	50 SCALE GRAPHIC
60 SCALE GRAPHIC	60 SCALE GRAPHIC
80 SCALE GRAPHIC	80 SCALE GRAPHIC
AC BERM	ASPHALT CONCRETE BERM
AP	AERIAL PANEL
AP ID	AERIAL PHOTO IDENTIFICATION
BENCH	SURVEY BENCH MARK
BK RL CB	BACK OF ROILED CURB
BLDG	BUILDING CORNER
BLOCK 1	BLOCK 1 NUMBER
BLOCK 2	BLOCK 2 NUMBERS
BLOCK 3	BLOCK 3 NUMBERS
BRDG ABUT	BRIDGE ABUTMENT
BREAK1	BREAK LINE
BREAK2	BREAK LINE
BREAK3	BREAK LINE
BUS	BUS STOP
CALC'D CL	CALCULATED CENTER LINE
CALC'D CT	CALCULATED CALIFORNIA
CALC'D EAS	CALCULATED EASEMANT
CALC'D LEAS	CALCULATED LEASE
CALC'D LS	CALCULATED LOT SPLIT
CALC'D PK-REC	CALCULATED PARK & RECREATION
CALC'D PL	CALCULATED PROPERTY LINE
CALC'D PT	CALCULATED SURVEY POINT
CALC'D RP	CALCULATED RADIUS POINT
CALC'D RW	CALCULATED RIGHT OF WAY
CALC'D SUB	CALCULATED SUBDIVISION
CATH PREV TST	CATHODE PREVENTATIVE TEST
CATV MH VLT	CATV MANHOLE-VAULT
CATV MKOUT	CATV MARK OUT
CATV PB	CATV PULL BOX
CATV PROFILE	CABLE TV PROFILE

V8 City Existing.cel	
Cell Name	Cell Description
CATV RISER	CATV RISER
CENTERLINE	CENTERLINE SYMBOL
CHK	CHECK POINT SURVEY
CITY SEAL	CITY SEAL
CONCRETE	CONCRETE SYMBOL
CTR DW	CENTER OF DRIVE WAY
DATE STAMP	DATE STAMP
DEFAULT	DEFAULT
DLT	DAYLIGHT LINE
EDGE AC	EDGE OF ASPHALT CONCRETE
EDGE CONC	EDGE OF CONCRETE
EDGE OF PAVEMENT	EDGE OF PAVEMENT SYMBOL
ELEC MH VLT	ELECTRIC MANHOLE - VAULT
ELEC MKOUT	ELECTRIC MARK OUT
ELEC POLE	ELECTRIC POLE
ELEC POLE ANCR	ELECTRIC POLE ANCHOR
ELEC POLE DEADMAN	ELECTRIC POLE DEADMAN
ELEC POLE W ST LT	ELECTRIC POLE W/STREET LIGHT
ELEC POLE W UG	ELECTRIC POLE W/UNDERGROUND
ELEC POWER POLE	ELECTRIC POWER POLE
ELEC PROF	ELECTRIC PROFILE
ELEC PROF 2X2	ELECTRIC DUCTS PROFILE 2X2
ELEC PROF 3X2	ELECTRIC DUCTS PROFILE 3X2
ELEC PROF 3X3	ELECTRIC DUCTS PROFILE 3X3
ELEC PROF 3X5	ELECTRIC DUCTS PROFILE 3X5
ELEC PROF 4X1	ELECTRIC DUCTS PROFILE 4X1
ELEC PROF 4X3	ELECTRIC DUCTS PROFILE 4X3
ELEC PROF 4X4	ELECTRIC DUCTS PROFILE 4X4
ELEC PROF 5X5	ELECTRIC DUCTS PROFILE 5X5
ELEC PROF 5X6	ELECTRIC DUCTS PROFILE 5X6
ELEC PROF 6X4	ELECTRIC DUCTS PROFILE 6X4
ELEC PROF 6X6	ELECTRIC DUCTS PROFILE 6X6
ELEC STREET LT	ELECTRIC STREET LIGHT
ELEC STRUCT	ELECTRIC PB-RISER-TRAINS
EQUIP CALL OUT	EQUIPMENT CALLOUT
EX BUSH	EXISTING BUSH
EX GROUND	EXISTING GROUND
EX LONG BUSH	EXISTING LONG BUSH
EX PAVEMENT	EX PAVEMENT SYMBOL
FD GPS PT	FOUND GPS POINT
FD PT	FOUND SURVEY POINT
FD RTK PT	FOUND RTK POINT

V8 City Existing.cel	
Cell Name	Cell Description
FD WEL MON	FOUND WELL MONUMENT
FIN FLR	FINISHED FLOOR
FLEX CON	FLEXIBLE CONDUIT
FLOW ARROW	FLOW DIAGRAM ARROWHEAD
FLOW ARROW GUTTER	GUTTER FLOW ARROW 20
FNC BRN PT	FENCE POINT (BROWN)
FNC BW	FENCE BOTTOM OF WALL
FNC TF	FENCE TOP OF FOOTING POINT
FNC TW	FENCE TOP OF WALL
FNC WT PT	FENCE POINT (WHITE)
GAS 1.5 PROF	GAS 1.5" HP PROFILE
GAS 6 PROF	GAS 6" HP PROF
GAS METER	GAS METER
GAS MH VLT	GAS MANHOLE - VAULT
GAS MKOUT	GAS MARK OUT
GAS VALVE	GAS GATE VALVE
GB AC	GRADE BREAK ASPHALT
GB CONC	GRADE BREAK CONCRETE
GB DRT	GRADE BREAK DIRT
GB FL	GRADE BREAK FLOW LINE
GB GRS	GRADE BREAK GRASS
GB RPRP	GRADE BREAK RIP RAP
GB SND LN	GRADE BREAK SOUNDING LINE
GB TOE SLP	GRADE BREAK TOE OF SLOPE
GB TOP SLP	GRADE BREAK TOP OF SLOPE
GB TRD STRM	GRADE BREAK THREAD OF STREAM
GREAT OR EQ	GREATER OR EQUAL
GUTTER	GUTTER
HWY SYM	HIGHWAY SYMBOL
IRR CONTROL BX	IRRIGATION CONTROL BOX
LESS OR EQ	LESS OR EQUAL
LIGHT BASE ORNATE	LIGHT BASE ORNATE
LIGHT FIX ORNATE	ORNATE LIGHT FIXTURE
LIP	LIP LINE
LK EDG WTR	LAKE EDGE OF WATER
MAP NUMBER	MAP NUMBER
MARSH	EXISTING MARSH
MISC LN	MISCELLANEOUS LINE
MISC PT	MISCELLANEOUS POINT
MISC SIGN	MISCELLANEOUS SIGN
MOW STRP	MOW STRIP BOUNDARY
NORTH ARROW	NORTH ARROW

V8 City Existing.cel	
Cell Name	Cell Description
NORTH ARROW 1	NORTH ARROW 1
NORTH ARROW 2	NORTH ARROW 2
NORTH ARROW 3	NORTH ARROW 3
NORTH ARROW 4	NORTH ARROW 4
OWNERSHIP LINE	OWNERSHIP LINE
PALM TREE	PALM TREE
PED RAMP CRV	PED RAMP CURVED
PED RAMP ST	PED RAMP STRAIGHT
PLOT PATH	PLOT FILE PATH
PLUS	PLUS OR GRID MARK
PLUS MINUS	PLUS MINUS SIGN
POT HOLE	POT HOLE
PREDES SCOPE SYM	SL CONSTRAINTS SYMBOLS
PREDES SWR SYM	PRE DESIGN SEWER SYMBOLS
PREDES TB INFO	PRE DESIGN TITLE BLOCK
PREDES WTR SYM	PRE DESIGN WATER SYMBOL
RECYC WTR METER	RECYCLED WATER METER
RECYC WTR MH	RECYCLED WATER MANHOLE
RECYC WTR VALVE	RECYCLED WATER VALVE
REF NOTES	REFERENCE NOTES
SCALE 20 PROF	SCALE 20 PROFILE
SCALE 40 PROF	SCALE 40 PROFILE
SD 12 PROF	STORM DRAIN 12" PROFILE
SD 18 PROF	STROM DRAIN 18" PROFILE
SD 24 PROF	STORM DRAIN 24" PROFILE
SD 30 PROF	STORM DRAIN 30" PROFILE
SD 36 PROF	STROM DRAIN 36" PROFILE
SD 48 PROF	STROM DRAIN 48" PROFILE
SD 54 PROF	STROM DRAIN 54" PROFILE
SD 8 PROF	STROM DRAIN 8" PROFILE
SD BD	STORM DRAIN BROW DITCH
SD CO	STORM DRAIN CLEANOUT
SD CRS GUT	STORM DRAIN CROSS GUTTER
SD CULV	STORM DRAIN CULVERT
SD GRT INL	STORM DRAIN GRATE INLET
SD IE	STORM DRAIN INVERT ELEVATION
SD INLET	STORM DRAIN INLET
SD INLET TC	STORM DRAIN INLET AT TOP OF CURB
SD MH-CB	STORM DRAIN MANHOLE/CATCH BASIN
SD SD10	STORM DRAIN SD10
SD SD10 TYP CC	STORM DRAIN SD10 TYPE CC
SD SLOT DRAIN	STORM DRAIN SLOTTED

V8 City Existing.cel	
Cell Name	Cell Description
SD SW DRAIN	STORM DRAIN SIDEWALK
SD SWL	STORM DRAIN SWALE
SET GPS	SET GPS POINT
SET HUB	SET SURVEY HUB
SET PT	SET SURVEY POINT
SET RTK	SET RTK POINT
SHRUB1	SHRUB PLAN VIEW
SHRUB2	SHRUB PLAN VIEW
SHRUB3	SHRUB PLAN VIEW
SHRUB4	SHRUB PLAN VIEW
SPRNK	SPRINKLER
SPT EL AC	SPOT ELEVATION ASPHALT
SPT EL CNC	SPOT ELEVATION CONCRETE
SPT EL CTR DR	SPOT ELEVATION CENTER OF DOOR
SPT EL DRT	SPOT ELEVATION DIRT
SPT EL GRS	SPOT ELEVATION GRASS
SPT MISC	SPOT MISCELLANEOUS
SPT SND PNT	SPOT ELEVATION SOUNDING POINT
STATE ROUTE	STATE ROUTE SIGN
SUR BL	SURVEY BASELINE
SUR PLOT SHT	SURVEY 40 SCALE
SURVEY LINE SYMBOL	SURVEY LINE SYMBOL
SWR 10 PROF	SEWER 10" PROFILE
SWR 108 PORF	SEWER 108" PROFILE
SWR 12 PROF	SEWER 12" PROFILE
SWR 18 PROF	SEWER 18" PROFILE
SWR 21 PROF	SEWER 21" PROFILE
SWR 24 PROF	SEWER 24" PROFILE
SWR 27 PROF	SEWER 27" PROFILE
SWR 30 PROF	SEWER 30" PROFILE
SWR 33 PROF	SEWER 33" PROFILE
SWR 36 PROF	SEWER 36" PROFILE
SWR 6 PROF	SEWER 6" PROFILE
SWR 60 PROF	SEWER 60" PROFILE
SWR 66 PROF	SEWER 66" PROFILE
SWR 8 PROF	SEWER 8" PROFILE
SWR 87 PROF	SEWER 87" PROFILE
SWR 96 PROF	SEWER 96" PROFILE
SWR ABANDD MH	SEWER ABANDONED MANHOLE
SWR CO	SEWER CLEANOUT
SWR CO PROF	SEWER CLEAN OUT PROFILE
SWR DROP MH	SEWER DROP MANHOLE

V8 City Existing.cel	
Cell Name	Cell Description
SWR IE	SEWER INVERT ELEVATION
SWR LAT IE	SEWER LATERAL INVERT ELEVATION
SWR MANHOLE PROF	SEWER MANHOLE PROFILE
SWR MH	SEWER MANHOLE RIM
SWR MKOUT	SEWER MARKOUT
SWR PLUG	SEWER PLUG
TC	TOP OF CURB & FACE
TEL MH VAULT	TELEPHONE MANHOLE-VAULT
TEL MKOUT	TELEPHONE MARKOUT
TEL PB	TELEPHONE PULL BOX
TEL POLE	TELEPHONE POLE
TEL PROF	TEL. 1 CA PROFILE
TEL PROF 2X2	TELEPHONE DUCTS PROFILE 2X2
TEL PROF 3X2	TELEPHONE DUCTS PROFILE 3X2
TEL PROF 3X3	TELEPHONE DUCTS PROFILE 3X3
TEL PROF 3X5	TELEPHONE DUCTS PROFILE 3X5
TEL PROF 4X1	TELEPHONE DUCTS PROFILE 4X1
TEL PROF 4X3	TELEPHONE DUCTS PROFILE 4X3
TEL PROF 4X4	TELEPHONE DUCTS PROFILE 4X4
TEL PROF 5X5	TELEPHONE DUCTS PROFILE 5X5
TEL PROF 5X6	TELEPHONE DUCTS PROFILE 5X6
TEL PROF 6X4	TELEPHONE DUCTS PROFILE 6X4
TEL PROF 6X6	TELEPHONE DUCTS PROFILE 6X6
TEL STRUCT	TELEPHONE PED-RISER-BOOTH
TIC MARK	100 TIC STATION MARK
TRAF CONTROL	TRAFFIC CONTROL/RISER
TRAF LEFT VEH	TRAFFIC LEFT VECH. AHEAD
TRAF LIGHT ACTUATOR	TRAFFIC LIGHT ACTUATOR
TRAF PB	TRAFFIC PULL BOX
TRAF PROF	TRAFFIC PROFILE
TRAF SIGNAL	TRAFFIC SIGNAL
TRAF WHT PAINT	TRAFFIC STRIPING WHITE
TRAF YEL PAINT	TRAFFIC STRIPING YELLOW POINT
TRAIN	TRAIN & TROLLY TRACTS
TRAV PT	SURVEY TRAVERSE POINT
TREE LARGE	TREE GENERIC LARGE
TREE SMALL	TREE GENERIC SMALL
UNIMP RD PTH	UNIMPROVED ROAD OR PATH
VEG DRP LN	VEGETATION DRIP LINE
VEG LN	VEGETATION OUTLINE BOUNDARY
WALK WAY	SIDE WALK, WALK WAY
WTR 10 PROF	WATER 10" PROFILE

V8 City Existing.cel	
Cell Name	Cell Description
WTR 12 PROF	WATER 12" PROFILE
WTR 16 PROF	WATER 16" PROFILE
WTR 20 PROF	WATER 20" PROFILE
WTR 24 PROF	WATER 24" PROFILE
WTR 30 PROF	WATER 30" PROFILE
WTR 36 PROF	WATER 36" PROFILE
WTR 40 PROF	WATER 40" PROFILE
WTR 48 PROF	WATER 48" PROFILE
WTR 54 PROF	WATER 54" PROFILE
WTR 6 PROF	WATER 6" PROFILE
WTR 8 PROF	WATER 8" PROFILE
WTR AIR VAC	WATER AIR VAC
WTR BF PREV	WATER BACKFLOW PREVENTION
WTR BO	WATER BLOWOFF
WTR FH	WATER FIRE HYDRANT
WTR GRND WEL	WATER GROUND MONUMENT WELL
WTR GV	WATER GATE VALVE
WTR METER	WATER METER
WTR MH	WATER MANHOLE
WTR MKOUT	WATER MARK OUT
WTR PREV TST	WATER PREVENTATIVE TEST
WTR REDUCER	WATER REDUCER
WTR TST STA	WATER TEST STATION

V8 City Proposed.cel

V8 City Proposed.cel	
Cell Name	Cell Description
ASBLT SYM	ASBUILT SYMBOL
BMP1	BEST MANAGEMENT PRACTICE 1
BMP2	BEST MANAGEMENT PRACTICE 2
CAUTION CALLOUT	CAUTION CALLOUT
CAUTION CALLOUT BLK	CAUTION CALLOUT BLANK
CITY FORCES CALLOUT	CITY FORCES CALLOUT
CONNECT AND RECHANNEL TO EX SWR MH CALL PL PT	CONNECT & RECHANNEL TO EX SWR MH CALLOUT PLAN POINT
CONNECT AND RECHANNEL TO EX SWR MH CALL PROF	CONNECT AND RECHANNEL TO EX SWR MH CALL PROFILE
CONNECT TO EX SWR MH CALL PROF	CONNECT TO EX SWR MH CALLOUT PROFILE
CONNECT TO EX SWR MH CALLOUT PL PT	CONNECT TO EX SWR MH CALLOUT PLAN POINT
COORD CAP 3	COORDINATE CAPSULE
COORD CAP 4	COORDINATE CAPSULE
COORD TABLE DF	COORDINATE TABLE DATA FIELD
DATA TABLE	DATA TABLE
DATA TABLE BOX	DATA BOX FOR DATA TABLE
DATE STAMP	DATE STAMP
DELTA SYM	DELTA SYMBOL FOR NOTES
DETAIL1	DETAIL CALL OUT
DETAIL2	DETAIL CALL OUT
EQUIP CALLOUT	EQUIPMENT CALLOUT
HEX 0	HEX FOR NOTES BLANK
HEX 1	HEX FOR NOTES 1
HEX 2	HEX FOR NOTES 2
MAP INTRANET LOCATION	INTRANET LOCATION MAP
P ACCESS MH PROF	PROP ACCESS MH PROF
P SWR CO	PROP SWR CLEANOUT PLAN
P SWR CO PROF	PROP SWR CLEANOUT PROF
P SWR LAT SYM	PROP SWR LATERAL SYMBL
P SWR LINED	PROP SWR LINED
P SWR LINED MH CALL PL PT	PROP SWR LINED MH CALL PLAN POINT
P SWR LINED MH CALL PROF	PROP SWR LINED MH CALLOUT PROFILE
P SWR MAIN	PROP SEWER MAIN
P SWR MH	PROP SWR MH
P SWR MH CALLOUT PL PT	P SWR MH CALLOUT PLAN POINT
P SWR MH CALLOUT PLAN	PROP SWR MH CALLOUT PLAN
P SWR MH CALLOUT PROF	P SWR MH CALLOUT PROF
P SWR MH LINED	PROP SWR MH LINED
P SWR MH LINED PROF	PROP SWR MH LINED PROF
P SWR MH PROF	PROP SWR MH PROF
P WTR 10 PROF	PROP 10 WATER PROF

V8 City Proposed.cel	
Cell Name	Cell Description
P WTR 12 PROF	PROP 12 WATER PROF
P WTR 16 PROF	PROP 16 WATER PROF
P WTR 24 PROF	PROP 24 WATER PROF
P WTR 6 PROF	PROP 6 WATER PROF
P WTR 8 PROF	PROP 8 WATER PROF
P WTR ACCESS MH	PROP WTR ACCESS MH
P WTR AIR VALVE	PROP WTR AIR VALVE
P WTR AIR VALVE PROF	PROP AIR VALVE PROFILE
P WTR BLOW OFF	PROP WTR BLOW OFF
P WTR BLOW OFF PROF	PROP WTR BLOW OFF PROFILE
P WTR CROSS	PROP WTR CROSS
P WTR EL 11 LT	PROP WTR ELBOW 11 LT
P WTR EL 11 RT	PROP WTR ELBOW 11 RT
P WTR EL 22 LT	PROP WTR ELBOW 22 LT
P WTR EL 22 RT	PROP WTR ELBOW 22 RT
P WTR EL 45 LT	PROP WTR ELBOW 45 LT
P WTR EL 45 RT	PROP WTR ELBOW 45 RT
P WTR EL 90	PROP WTR ELBOW 90
P WTR FH	PROP WTR FIRE HYDRANT
P WTR GB	PROP WTR GRADE BREAK
P WTR GB ELEV	PROP WTR GRADE BREAK EVELATION
P WTR MAIN	PROP WTR MAIN
P WTR METER	PROP WTR MAIN
P WTR PLUG	PROP WTR PLUG
P WTR RED	PROP WTR REDUCER
P WTR SERV	PROP WATER SERVICE
P WTR TEE	PROP WATER TEE
P WTR VALVE	PROP WTR VALVE
PLANNING MH	PLANNING MANHOLE
PLUS MINUS	PLUS MINUS
REHAB EX MH CALL PL PT	REHAB EX MH CALL PLAN POINT
REHAB EX MH CALL PLAN	REHB EX MH CALLOUT PLAN
REHAB EX MH CALL PROF	REHAB EX MH CALLOUT PROF
SHEET 1-10 WSD	SHEET 1-10 WSD
SHEET ANSI20 WSD	SHEET ANSI20 WSD
SHEET ANSI40 WSD	SHEET ANSI40 WSD
SHEET B	B SHEET
SHEET CITY FOR	SHEET CITY FORCES
SHEET COVER LARGE	SHEET COVER LARGE
SHEET COVER WATER	SHEET COVER WATER
SHEET COVER WSD	SHEET COVER WSD 12/6/2004
SHEET CURB RAMP WSD	SHEET CURB RAMP WSD
SHEET PLAN WATER	SHEET PLAN WATER
SHEET PP WATER	SHEET PLAN/PROFILE WATER
SHEET RESURFACING WSD	SHEET RESURFACING WSD

V8 City Traffic Notes & Details.cel

V8 City Traffic Notes & Details.cel	
Name	Description
4 SECT MAST SPLT	4 SECT MAST SPLT
5 SEC MAST PPLT	5 SEC MAST PPLT
5 SEC POLE OVERLAP	5 SEC POLE OVERLAP
5 SEC POLE PPLT	5 SEC POLE PPLT
AS-BUILT	AS-BUILT
BOX 1 CHAR	BOX WITH 1 CHAR
BOX 2 CHAR	BOX WITH 2 CHAR
CIRCLE 1 CHAR	CIRCLE NOTE WITH 1 CHAR
CIRCLE 2 CHAR	CIRCLE NOTE WITH 2 CHAR
CONDUCTOR TBL	CONDUCTOR TABLE
DETECTOR SCHED	DETECTOR SCHEDULE
LEGEND	LEGEND TONE NOTE
LOCATION MAP	LOCATION MAP
NORTH	NORTH ARROW
PAVING DETAIL	PAVING DETAIL
PHASE 01	PHASE 01
PHASE 01 RED	PHASE 01 REDUCED
PHASE 02	PHASE 02
PHASE 02 PED RED	PHASE 02 PED REDUCED
PHASE 02 RED	PHASE 02 REDUCED
PHASE 03	PHASE 03
PHASE 03 PED RED	PHASE 03 PED REDUCED
PHASE 03 RED	PHASE 03 REDUCED
PHASE 04	PHASE 04
PHASE 04 PED RED	PHASE 04 PED REDUCED
PHASE 04 RED	PHASE 04 REDUCED
PHASE 05	PHASE 05
PHASE 05 RED	PHASE 05 REDUCED
PHASE 06	PHASE 06
PHASE 06 PED RED	PHASE 06 PED REDUCED
PHASE 06 RED	PHASE 06 REDUCED
PHASE 07	PHASE 07
PHASE 07 PED RED	PHASE 07 PED REDUCED
PHASE 07 RED	PHASE 07 REDUCED
PHASE 08	PHASE 08
PHASE 08 PED RED	PHASE 08 PED REDUCED
PHASE 08 RED	PHASE 08 REDUCED
PHASED	PHASE DIAGRAM
PLACE DETAIL	PLACEMENT DETAIL
PLACE DETAIL ALT.	PLACEMENT DETAIL ALT.

V8 City Traffic Notes & Details.cel	
Name	Description
POLE SCHD	POLE SCHEDULE
R73-7M DETAIL	PPLT SIGN DETAIL
SCALE NOTE	SCALE NOTE
SHEET 20 SCALE TRAF	SHEET 20 SCALE TRAF
SHEET 30 SCALE TRAF	SHEET 30 SCALE TRAF
SHEET 40 SCALE TRAF	SHEET 40 SCALE TRAF
STREE LIGHT CONVER DETAIL	ACORN STREET LIGHT CONVER. DETAIL
TITLE BLOCK 30 SCALE	TITLE BLOCK 30 SCALE
TRENCH LOCATION DETAIL	TRENCH LOCATION DETAIL
TRIANGLE 1 CHAR	TRIANGLE NOTE WITH 1 CHAR
TRIANGLE 2 CHAR	TRIANGLE NOTE WITH 2 CHAR
WORK SPEC NOTE 2003	WORK SPEC NOTE 2003
WORK SPEC NOTE 2004	WORK SPEC NOTE 2004
WORK SPEC NOTE 2005	WORK SPEC NOTE 2005

V8 City Traffic Legend.cel

V8 City Traffic Legend.cel	
Name	Description
AHEAD EX	AHEAD TEXT EX
AHEAD PROP	AHEAD TEXT PROP
ARROW LT EX	ARROW LEFT EX
ARROW LT PROP	ARROW LT PROP
ARROW LT ST EX	ARROW LEFT AND STRAIGHT EX
ARROW LT ST PROP	ARROW LEFT STRAIGHT PROP
ARROW RT EX	ARROW RIGHT EX
ARROW RT LT ST EX	ARROW RIGHT LEFT STRAIGHT EX
ARROW RT LT ST PROP	ARROW RIGHT LEFT STRAIGHT PROP
ARROW RT PROP	ARROW RIGHT PROP
ARROW RT ST EX	ARROW RIGHT STRAIGHT EX
ARROW RT ST PROP	ARROW RIGHT STRAIGHT PROP
ARROW ST EX	ARROW STRAIGHT EX
ARROW ST LONG EX	ARROW STRAIGHT LONG EX
ARROW ST LONG PROP	ARROW STRAIGHT LONG PROP
ARROW ST MED EX	ARROW STRAIGHT MED EX
ARROW ST MED PROP	ARROW ST MED PROP
ARROW ST PROP	ARROW STRAIGHT PROP
BIKE EX	BIKE TEXT EX
BIKE PROP	BIKE TEXT PROP
CLEAR EX	CLEAR TEXT EX
CLEAR PROP	CLEAR TEXT PROP
HERE EX	HERE TEXT EX
HERE PROP	HERE TEXT PROP
KEEP EX	KEEP TEXT EX
KEEP PROP	KEEP TEXT PROP
LANE LG EX	LANE LARGE TEXT EX
LANE LG PROP	LANE LARGE TEXT PROP
LANE SM EX	LANE SMALL TEXT EX
LANE SM PROP	LANE SMALL TEXT PROP
LEFT EX	LEFT TEXT EX
LEFT PROP	LEFT TEXT PROP
ONLY EX	ONLY TEXT EX
ONLY PROP	ONLY TEXT PROP
PED EX	PED TEXT EX
PED PROP	PED TEXT PROP
RAILROAD EX	RAILROAD TEXT EX
RAILROAD PROP	RAILROAD TEXT PROP
RIGHT EX	RIGHT TEXT EX
RIGHT PROP	RIGHT TEXT PROP

V8 City Traffic Legend.cel	
Name	Description
SCHOOL EX	SCHOOL TEXT EX
SCHOOL PROP	SCHOOL TEXT PROP
SIGN GND EX	SIGN GROUND EX
SIGN GND PROP	SIGN GROUND PROP
SIGNAL EX	SIGNAL TEXT EX
SIGNAL PROP	SIGNAL TEXT PROP
SLOW EX	SLOW TEXT EX
SLOW PROP	SLOW TEXT PROP
STOP EX	STOP TEXT EX
STOP PROP	STOP TEXT PROP
TURN EX	TURN TEXT EX
TURN PROP	TURN TEXT PROP
WAIT EX	WAIT TEXT EX.
WAIT PROP	WAIT TEXT PROP
XING EX	XING TEXT EX
XING PROP	XING TEXT PROP
YIELD EX	YIELD TEXT EX
YIELD PROP	YIELD TEXT PROP

V8 City Traffic Eq.cel

V8 City Traffic Eq.cel	
Name	Description
15 POLE EX	15 FT POLE EX
15 POLE PROP	15 FT POLE PROP
15 POLE SALV	15 FT POLE SALVAGE
15 SIGNAL EX	15 FT SIGNAL EX
15 SIGNAL PROP	15 FT SIGNAL PROP
15 SIGNAL SALV	15 FT SIGNAL SALVAGE
20 POLE EX	20 FT POLE EX
20 POLE PROP	20 FT POLE PROP
20 POLE SALV	20 FT POLE SALVAGE
20 SIGNAL EX	20 FT SIGNAL EX
20 SIGNAL PROP	20 FT SIGNAL PROP
20 SIGNAL SALV	20 FT SIGNAL SALVAGE
25 POLE EX	25 FT POLE EX
25 POLE PROP	25 FT POLE PROP
25 POLE SALV	25 FT POLE SALVAGE
25 SIGNAL EX	25 FT SIGNAL EX
25 SIGNAL PROP	25 FT SIGNAL PROP
25 SIGNAL SALV	25 FT SIGNAL SALVAGE
30 POLE EX	30 FT POLE EX
30 POLE PROP	30 FT POLE PROP
30 POLE SALV	30 FT POLE SALVAGE
30 SIGNAL EX	30 FT SIGNAL EX
30 SIGNAL PROP	30 FT SIGNAL PROP
30 SIGNAL SALV	30 FT SIGNAL SALVAGE
35 POLE EX	35 FT POLE EX
35 POLE PROP	35 FT POLE PROP
35 POLE SALV	35 FT POLE SALVAGE
35 SIGNAL EX	35 FT SIGNAL EX
35 SIGNAL PROP	35 FT SIGNAL PROP
35 SIGNAL SALV	35 FT SIGNAL SALVAGE
40 POLE EX	40 FT POLE EX
40 POLE PROP	40 FT POLE PROP
40 POLE SALV	40 FT POLE SALVAGE
40 SIGNAL EX	40 FT SIGNAL EX
40 SIGNAL PROP	40 FT SIGNAL PROP
40 SIGNAL SALV	40 FT SIGNAL SALVAGE
45 POLE EX	45 FT POLE EX
45 POLE PROP	45 FT POLE PROP
45 POLE SALV	45 FT POLE SALVAGE
45 SIGNAL EX	45 FT SIGNAL EX

V8 City Traffic Eq.cel	
Name	Description
45 SIGNAL PROP	45 FT SIGNAL PROP
45 SIGNAL SALV	45 FT SIGNAL SALVAGE
50 POLE EX	50 FT POLE EX
50 POLE PROP	50 FT POLE PROP
50 POLE SALV	50 FT POLE SALVAGE
50 SIGNAL EX	50 FT SIGNAL EX
50 SIGNAL PROP	50 FT SIGNAL PROP
50 SIGNAL SALV	50 FT SIGNAL SALVAGE
55 POLE EX	55 FT POLE EX
55 POLE PROP	55 FT POLE PROP
55 POLE SALV	55 FT POLE SALVAGE
55 SIGNAL EX	55 FT SIGNAL EX
55 SIGNAL PROP	55 FT SIGNAL PROP
55 SIGNAL SALV	55 FT SIGNAL SALVAGE
60 POLE EX	60 FT POLE EX
60 POLE PROP	60 FT POLE PROP
60 POLE SALV	60 FT POLE SALVAGE
60 SIGNAL EX	60 FT SIGNAL EX
60 SIGNAL PROP	60 FT SIGNAL PROP
60 SIGNALSALV	60 FT SIGNAL SALVAGE
CONTROL EX	CONTROLLER EX
CONTROL PROP	CONTROLLER PROP
CONTROL SALV	CONTROLLER SALVAGE
CUSTOM LT EX	CUSTOM LIGHT EX
CUSTOM LT PROP	CUSTOM LIGHT PROP
CUSTOM LT SALVAGE	CUSTOM LIGHT SALVAGE
ELEC BOX EX	ELECTRICAL BOX EX
ELEC BOX PROP	ELECTRICAL BOX PROP
ELEC BOX SALV	ELECTRICAL BOX SALVAGE
EVPE HEAD EX	EVPE HEAD EX
EVPE HEAD PROP	EVPE HEAD PROP
EVPE HEAD SALV	EVPE HEAD SALVAGE
FL BEACON EX	FLASHING BEACON EX
FL BEACON PROP	FLASHING BEACON PROP
FL BEACON SALV	FLASHING BEACON SALVAGE
FL RED BEACON EX	FLASH RED BEACON EX
FL RED BEACON PROP	FLASH RED BEACON PROP
FL RED BEACON SALV	FLASH RED BEACON SALVAGE
FL YEL BEACON EX	FLASH YEL BEACON EX
FL YEL BEACON PROP	FLASH YEL BEACON PROP
FL YEL BEACON SALV	FLASH YEL BEACON SALVAGE
HAND HOLE 3312 EX	HAND HOLE 3312 EX
HAND HOLE 3312 PROP	HAND HOLE 3312 PROP

V8 City Traffic Eq.cel	
Name	Description
HAND HOLE 3312 SALV	HAND HOLE 3312 SLAVAGE
HAND HOLE EX	HAND HOLE DET EX
HAND HOLE PROP	HAND HOLE DET PROP
HEAD EX	VEH HEAD EX
HEAD LT EX	VEH HEAD LEFT EX
HEAD LT PROP	VEH HEAD LEFT PROP
HEAD LT SALV	VEH HEAD LEFT SALVAGE
HEAD PROP	VEH HEAD PROP
HEAD RT EX	VEH HEAD RIGHT EX
HEAD RT PROP	VEH HEAD RIGHT PROP
HEAD RT SALV	VEH HEAD RIGHT SALVAGE
HEAD SALV	VEH HEAD SALVAGE
LOOP A 1 CHAR EX	LOOP A 1 CHAR EX
LOOP A 1 CHAR PROP	LOOP A 1 CHAR PROP
LOOP A 2 CHAR EX	LOOP A 2 CHAR EX
LOOP A 2 CHAR PROP	LOOP A 2 CHAR PROP
LOOP B 1 CHAR EX	LOOP B 1 CHAR EX
LOOP B 1 CHAR PROP	LOOP B 1 CHAR PROP
LOOP B 2 CHAR EX	LOOP B 2 CHAR EX
LOOP B 2 CHAR PROP	LOOP B 2 CHAR PROP
LOOP BIKE E 1 CHAR PROP	LOOP BIKE E 1 CHAR PROP
LOOP BIKE E 2 CHAR PROP	LOOP BIKE E 2 CHAR PROP
LOOP BIKE Q 1 CHAR EX	LOOP BIKE Q 1 CHAR EX
LOOP BIKE Q 1 CHAR PROP	LOOP BIKE Q 1 CHAR PROP
LOOP BIKE Q 2 CHAR EX	LOOP BIKE Q 2 CHAR EX
LOOP BIKE Q 2 CHAR PROP	LOOP BIKE Q 2 CHAR RPOP
LOOP D 1 CHAR EX	LOOP D 1 CHAR EX
LOOP D 1 CHAR PROP	LOOP D 1 CHAR PROP
LOOP D 2 CHAR EX	LOOP D 2 CHAR EX
LOOP D 2 CHAR PROP	LOOP D 2 CHAR PROP
LOOP E 1 CHAR EX	LOOP E 1 CHAR EX
LOOP E 1 CHAR PROP	LOOP E 1 CHAR PROP
LOOP E 2 CHAR EX	LOOP E 2 CHAR EX
LOOP E 2 CHAR PROP	LOOP E 2 CHAR PROP
LOOP QUAD Q 1 CHAR EX	LOOP QUADRAPOLE Q 1 CHAR EX
LOOP QUAD Q 1 CHAR PROP	LOOP QUADRAPOLE Q 1 CHAR PROP
LOOP QUAD Q 2 CHAR EX	LOOP QUADRAPOLE Q 2 CHAR EX
LOOP QUAD Q 2 CHAR PROP	LOOP QUADRAPOLE Q 2 CHAR PROP
LOOPS 2 DA 1 CHAR EX	LOOPS 2 DA 1 CHAR EX
LOOPS 2 DA 1 CHAR PROP	LOOPS 2 DA 1 CHAR PROP
LOOPS 2 DA 2 CHAR EX	LOOPS 2 DA 2 CHAR EX
LOOPS 2 DA 2 CHAR PROP	LOOPS 2 DA 2 CHAR PROP
LOOPS 2 E 1 CHAR EX	LOOPS 2 E 1 CHAR EX

V8 City Traffic Eq.cel	
Name	Description
LOOPS 2 E 1 CHAR PROP	LOOPS 2 E 1 CHAR PROP
LOOPS 2 E 2 CHAR EX	LOOPS 2 E 2 CHAR EX
LOOPS 2 E 2 CHAR PROP	LOOPS 2 E 2 CHAR PROP
LOOPS 4 DA 1 CHAR EX	LOOPS 4 DA 1 CHAR EX
LOOPS 4 DA 1 CHAR PROP	LOOPS 4 DA 1 CHAR PROP
LOOPS 4 DA 2 CHAR EX	LOOPS 4 DA 2 CHAR EX
LOOPS 4 DA 2 CHAR PROP	LOOPS 4 DA 2 CHAR PROP
LOOPS 4 E 1 CHAR EX	LOOPS 4 E 1 CHAR EX
LOOPS 4 E 1 CHAR PROP	LOOPS 4 E 1 CHAR PROP
LOOPS 4 E 2 CHAR EX	LOOPS 4 E 2 CHAR EX
LOOPS 4 E 2 CHAR PROP	LOOPS 4 E 2 CHAR PROP
MAST ARM SIGNAL EX	MAST ARM SIGNAL EX
MAST ARM SIGNAL PROP	MAST ARM SIGNAL PROP
MAST ARM SIGNAL SALV	MAST ARM SIGNAL SALVAGE
MULTIPLE FIBOPT EX	MULTIPLEXER FIBEROPTIC EX
MULTIPLE FIBOPT PROP	MULTIPLEXER FIBEROPTIC PROP
NOSE LT EX	NOSE LIGHT EX
NOSE LT PROP	NOSE LIGHT PROP
PB 3.5 EX	PULLBOX 3.5 EXIST
PB 3.5 PROP	PULLBOX 3.5 PROP
PB 3.5 SALV	PULLBOX 3.5 SALVAGE
PB 5 EX	PULLBOX 5 EXIST
PB 5 PROP	PULLPOX 5 PROP
PB 5 SALV	PULLPOX 5 SALVAGE
PB 6 EX	PULLBOX 6 EX
PB 6 PROP	PULLBOX 6 PROP
PB 6 SALV	PULLBOX 6 SALVAGE
PB UNK EX	PULLBOX UNK SIZE EX
PB UNK PROP	PULLBOX UNK SIZE PROP
PB UNK SALV	PULLBOX UNK SIZE SALVAGE
PED 2 HEADS EX	PED 2 HEADS EX
PED 2 HEADS PROP	PED 2 HEADS PROP
PED 2 HEADS SALVAGE	PED 2 HEADS SALVAGE
PED BARRICADE EX	PED BARRICADE EX
PED BARRICADE PROP	PED BARRICADE PROP
PED BARRICADE SALV	PED BARRICADE SALVAGE
PED HEAD EX	PED HEAD EX
PED HEAD PROP	PED HEAD PROP
PED HEAD SALV	PED HEAD SALVAGE
PED PHBUT POLE EX	PED PUSH BUTTON POLE EX
PED PHBUT POLE PROP	PED PUSH BUTTON POLE PROP
PED PHBUT POLE SALV	PED PUSH BUTTON POLE SALV
POLE SERV MOUNT EX	POLE SERVICE MOUNT EX

V8 City Traffic Eq.cel	
Name	Description
POLE SERV PED EX	POLE SERVICE PEDISTAL EX
POLE SERV PED PROP	POLE SERVICE PEDISTAL PROP
POLE SERV PED SALV	POLE SERVICE PEDISTAL SALVAGE
PP EX	POWER POLE EX
PP PROP	POWER POLE PROP
PP SALV	POWER POLE SALV
PP SRV EX	POWER POLE W/SERV EX
PP SRV PROP	POWER POLE W/SERV PROP
PP SRV SALV	POWER POLE W/SERV SALV
SIGN POLE 1A EX	SIGN POLE 1A EX
SIGN POLE 1A PROP	SIGN POLE 1A PROP
SIGN POLE 1A SALV	SIGN POLE 1A SALVAGE
ST LT EX	STREET LIGHT EXIST
ST LT PROP	STREET LIGHT PROP
ST LT SALV	STREET LIGHT SALV
TRANSFORMER EX	TRANSFORMER EX
TRANSFORMER PROP	TRANSFORMER PROP
TRANSFORMER SALV	TRANSFORMER SALVAGE

V8 City Traffic Features.cel

V8 City Traffic Features.cel	
Name	Description
100 LT LANE 60 TRANS	100 FT LT LANE 60 TRANS
100 LT LANE 90 TRANS	100 FT LT LANE 90 TRANS
250 LT LANE 120 TRANS	250 FT LT LANE 120 TRANS
250 LT LANE 90 TRANS	250 FT LT LANE 90 TRANS
60 LT LANE 60 TRANS	60 FT LT LANE 60 TRANS
B2 CURB GUTTER	B2 CURB GUTTER XSEC
CURB INLET 1	CURB INLET 1
CURB INLET 2	CURB INLET 2
CURB INLET 3	CURB INLET 3
CURB INLET 4	CURB INLET 4
CURB INLET 5	CURB INLET 5
DRIVEWAY 10	DRIVEWAY 10
DRIVEWAY 12	DRIVEWAY 12
DRIVEWAY 15	DRIVEWAY 15
DRIVEWAY 20	DRIVEWAY 20
FIRE HYD EX	FIRE HYDRANT EX
MON	MONUMENT
NOSE	NOSE
PALM TREE	PALM TREE
PED RAMP 2 EX	PED RAMP 2 EX
PED RAMP A PROP	PED RAMP A PROP
PED RAMP C MOD PROP	PED RAMP C MOD PROP
PED RAMP C PROP	PED RAMP C PROP
PED RAMP EX	PED RAMP EX
PED RAMP PROP	PED RAMP PROP
PED RAMP R1	PED RAMP R1
PED RAMP R2	PED RAMP R2
PED RAMP R3	PED RAMP R3
PED RAMP R4	PED RAMP R4
PED RAMP R5	PED RAMP R5
RAILROAD	RAILROAD
TRASH	TRASH CAN
TREE LARGE	TREE GENERIC LARGE
TREE SMALL	TREE GENERIC SMALL
TROLLEY TRACK SINGLE	TROLLEY TRACK SINGLE
TROLLEY TRACKS 1	TROLLEY TRACKS SINGLE
TROLLEY TRACKS 2	TROLLEY TRACKS DUAL

7 – Dimensions

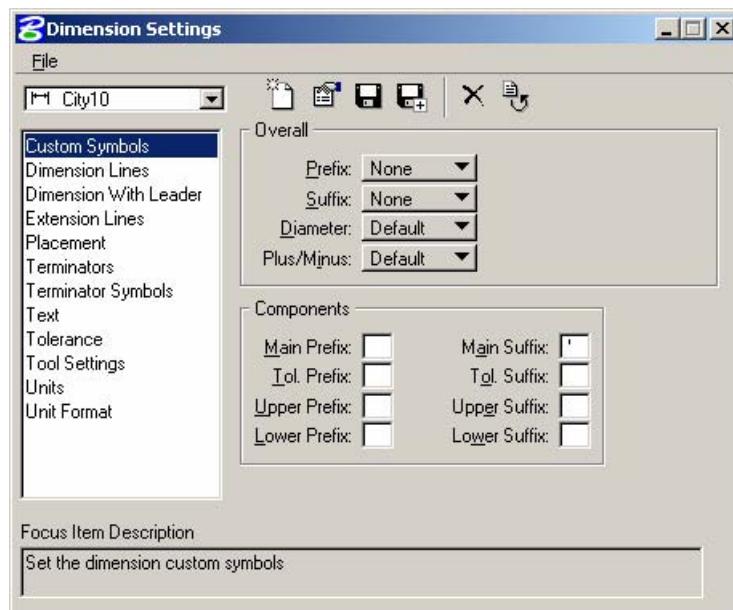
A set of dimension styles has been established to help in placing consistent dimensions in drawings with known plotting scales. The standard dimension styles are included in the following table.

Dimensions

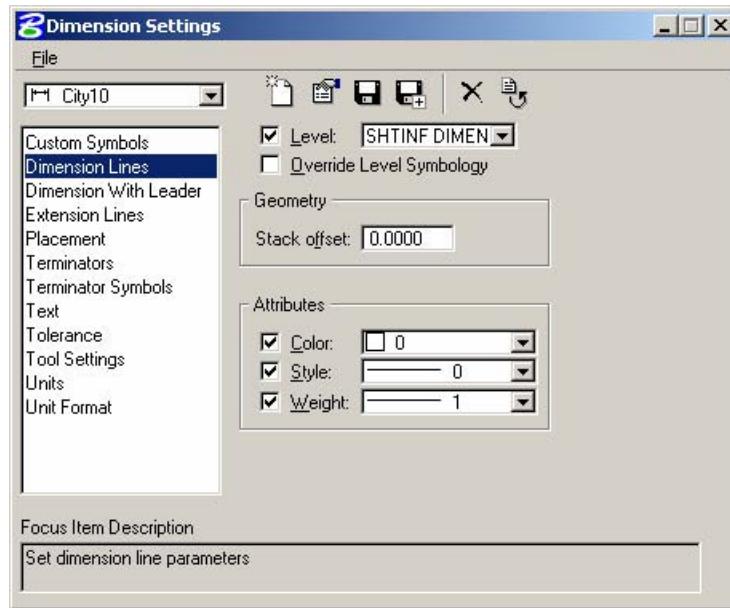
Dimension Style	Extension	Text Size
City10	No	1.2
City20	No	2.4
City40	No	4.8
City80	No	9.6
City100	No	12
City160	No	19.2
City10ex	Yes	1.2
City20ex	Yes	2.4
City40ex	Yes	4.8
City80ex	Yes	9.6
City100ex	Yes	12
City160ex	Yes	19.2

The following are common settings made to all dimension styles.

Custom Symbols



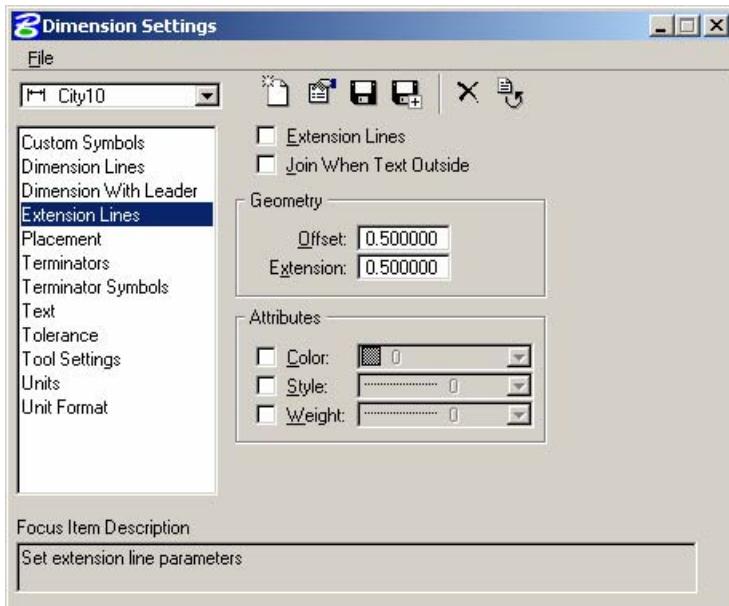
Dimension Line



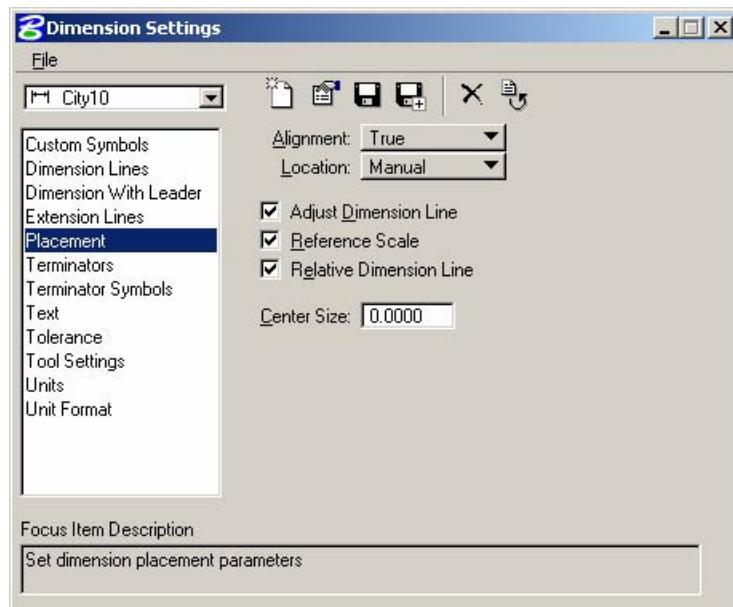
Dimensions with Leader



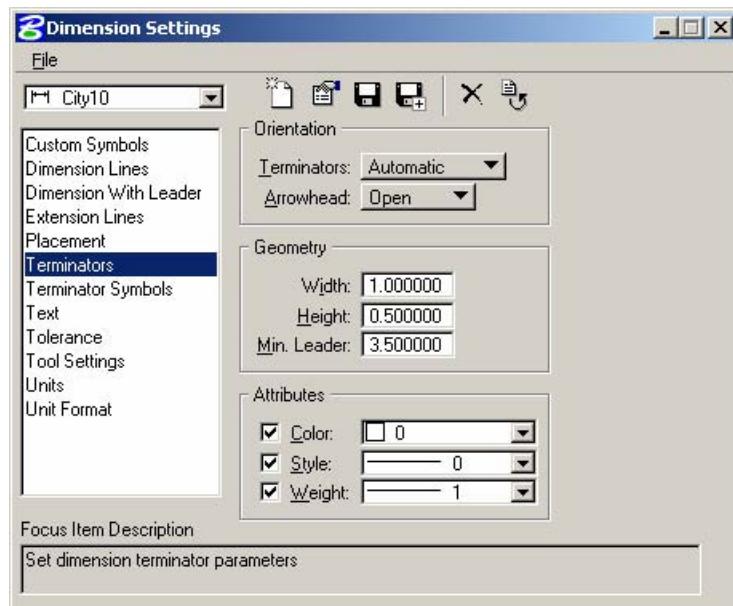
Extension Lines



Placement



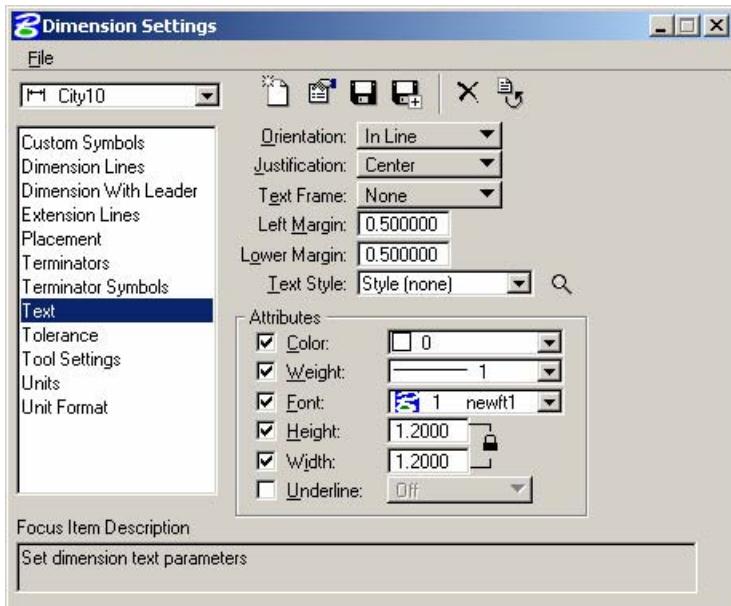
Terminators



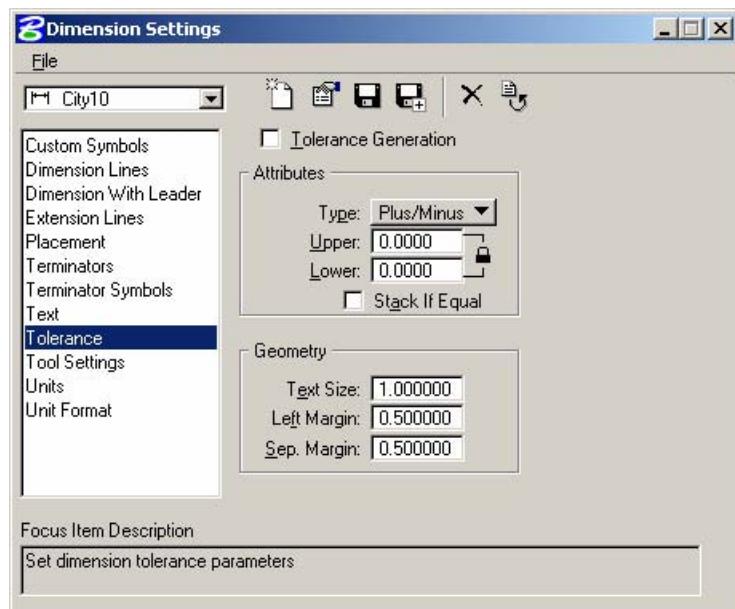
Terminator Symbols



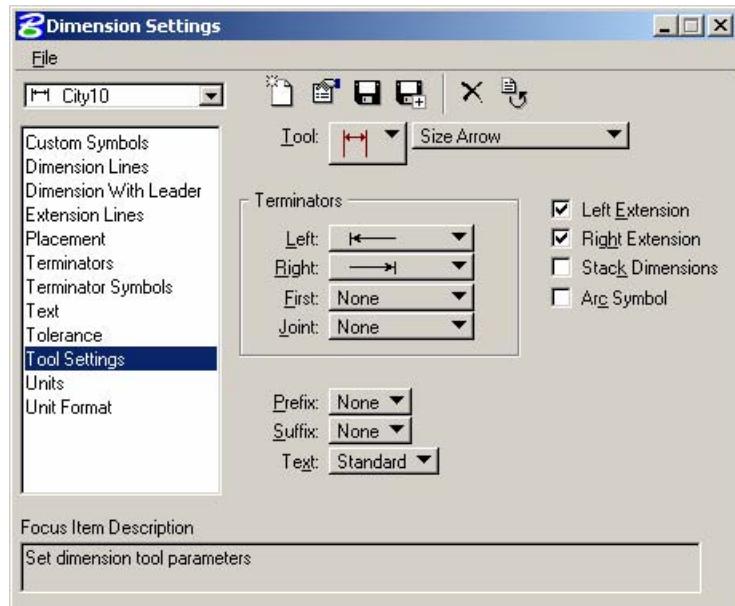
Text (will vary depending on selected dimension style)



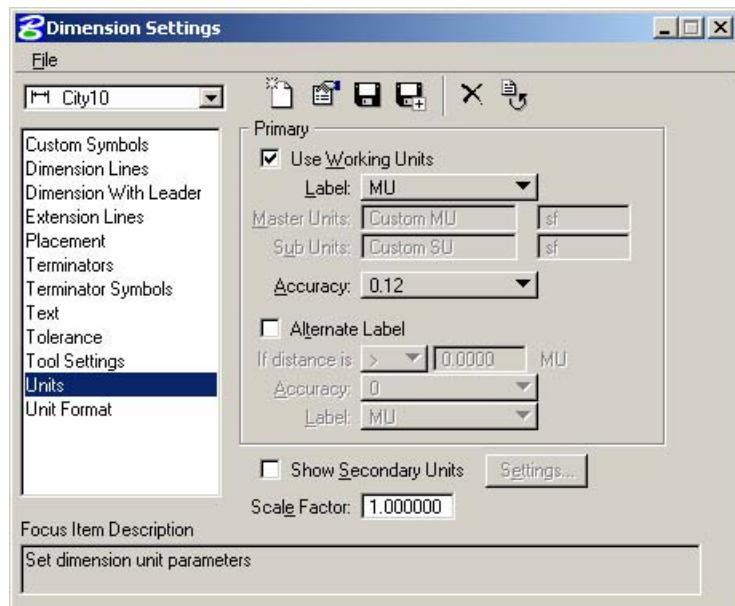
Tolerance



Tool Settings



Units



Unit Format

