

Pt Code	PT DESC	Description	Level Name	Description (from AEC layering)	Color	L Style	Line WT	Symbol	CELL LIB
1300		Pavement Markings, Signs							
			V-SPCL-TRAF-IDEN	Traffic signal identifier tags, symbol modifier, and text	45	0	1	Elev Txt	
1301	TR_SB	Traffic Signal Pole	V-SPCL-TRAF	Traffic signal system	45	0	2	TRPOLE	SURVEY
1302	TR_CB	Traffic Control Box	V-SPCL-TRAF	Traffic signal system	45	0	2	TSCTRL	SURV_SYMV8
1303	PED_XING_SW	Pedestrian Crossing Switch	V-SPCL-TRAF	Traffic signal system	45	0	2	TSPBX	SURV_SYMV8
1304	PULL	Signal Pull Box	V-SPCL-TRAF	Traffic signal system	45	0	2	TSPBX	SURV_SYMV8
1305	G_SB	Ground Signal Box	V-SPCL-TRAF	Traffic signal system	45	0	2	TSCTRL	SURV_SYMV8
1306	ST_POLE	Strain Pole For Signal Box	V-SPCL-TRAF	Traffic signal system	45	0	2	UTPLX	SURV_SYMV8
1320	M_POST	Metal Brace Post	V-ROAD-SIGN	Signs	3	0	0	UTPLX	SURV_SYM
1321	W_POST	Wood Brace Post	V-ROAD-SIGN	Signs	3	0	0	SIGN	CIVSUR
1330	SIGN_S	Sign/Marker (single post)(define)	V-ROAD-SIGN	Signs	3	0	0	SIGN	CIVSUR
1331	SIGN_D	Sign/Marker (double post)(define)	V-ROAD-SIGN	Signs	3	0	0	SIGN	CIVSUR
1340	BILL	Billboard Support Column	V-ROAD-SIGN	Signs	3	0	0	UTPLX	SURV_SYM
1350	HIST_MKR	Historical Marker	V-ROAD-SIGN	Signs	3	0	0	SIGN	CIVSUR
1360	RR_SP	Railroad Signal Pole	V-RAIL-EQPM	Railroad equipment (e.g., gates, signals)	106	0	1	RRSIG	SURVEY
1361	RR_SP_G	Railroad Signal Pole w/Gate	V-RAIL-EQPM	Railroad equipment (e.g., gates, signals)	106	0	1	TRFARM	ELEC_SYMV8
1400		Headwalls, Structures							
			V-SITE-STRC-IDEN	Existing site feature/structure annotation	5	0	1	Elev Txt	
1401	HW_T	Top Wall (define)	V-FLOD-TOP~	Floodwall top of wall	4	0	2	LINE	
1402	HW_B	Bottom Wall (define)	V-FLOD-BASE	Floodwall base of wall	6	0	2	LINE	
1403	LOCK_MAJ	Lock Structure Major Corners (4 only)	V-SITE-STRC	Structures (bridges, sheds, foundation pads, footings, etc.)	22	0	1	LINE	
1404	LOCK_MIN	Lock Structure Minor Corners (insets, etc.)	V-SITE-STRC	Structures (bridges, sheds, foundation pads, footings, etc.)	22	0	1	LINE	
1405	FLOOD_GT	Flood Gate (define width & type)	V-SITE-STRC	Structures (bridges, sheds, foundation pads, footings, etc.)	22	0	1	LINE	
1406	FL_FLOOD	Flowline Flood Gate	V-FLOD-DRAN-IDEN	Floodwall toe drain annotation	5	0	1	Elev Txt	
1600		Culverts							
			V-STRM-IDEN	Identifier tags, symbol modifier, and text	2	0	0	Elev Txt	
1601	FL_IN	Flowline IN Box Culvert (define)	V-STRM-CULV	Culverts	2	CULVRT	1	CULVEE	SURV_SYMV8
1602	FL_OUT	Flowline OUT Box Culvert (define)	V-STRM-CULV	Culverts	2	CULVRT	1	CULVEE	SURV_SYMV8
1603	FL_INP	Flowline IN Drain Pipe (define size & type)	V-STRM-CULV	Culverts	2	CULVRT	1	CULVEE	SURV_SYMV8
1604	FL_OUTP	Flowline OUT Drain Pipe (define size & type)	V-STRM-CULV	Culverts	2	CULVRT	1	CULVEE	SURV_SYMV8
1605	TYPE_A	Endwall (Type A)	V-STRM-HWAL	Headwalls and endwalls	0	0	2	LINE	
1606	TYPE_L	Endwall (Type L)	V-STRM-HWAL	Headwalls and endwalls	0	0	2	LINE	
1607	TYPE_LL	Endwall (Type L) Left	V-STRM-HWAL	Headwalls and endwalls	0	0	2	LINE	
1608	TYPE_U	Endwall (Type U)	V-STRM-HWAL	Headwalls and endwalls	0	0	2	LINE	
1609	TYPE_X	Endwall (Type X)	V-STRM-HWAL	Headwalls and endwalls	0	0	2	LINE	
1610	TYPE_XG	Endwall (Type X w/ Grate)	V-STRM-HWAL	Headwalls and endwalls	0	0	2	LINE	
1611	TYPE_S	Endwall Straight	V-STRM-HWAL	Headwalls and endwalls	0	0	2	LINE	
1612	TOP_C	Top Culvert (define)	V-STRM-IDEN	Identifier tags, symbol modifier, and text	2	0	0	Elev Txt	
1800		RIPRAP							
			V-RRAP-IDEN	Spot elevations	2	0	0	Elev Txt	
1801	RIPRAP	Edge of Riprap Limits	V-RRAP-EDGE	Edge of Riprap	3	0	2	LINE	
1802	ON_RIPRAP	Shot on Riprap	V-RRAP-IDEN	Spot elevations	2	0	0	Elev Txt	
1900		Water Features							
			V-TOPO-WATR-IDEN	Water Feature Elevation Text	4	0	0	Elev Txt	
1901	EDG_WAT	Edge of Water	V-SITE-EWAT	Edge of water	33	0	2	LINE	
1902	WS	Water Surface	V-TOPO-WATR	Water Level Reference	0	0	2	Elev Txt	
1911	WET	Swamp/Slough/Wetland Limits	V-WETL-SWMP	Swamps	33	0	1	LINE	
1912	SPRING	Spring	V-WETL-SPRG	Spring	33	0	1	LINE	
1920	PIER	Piers (define: wood, fishing, etc.)	V-CHAN-DOCK	Docks, decks, floats, piers, and mooring facilities	5	0	1	PILE	CIVSUR
1930	DOCK	Docks	V-CHAN-DOCK	Docks, decks, floats, piers, and mooring facilities	5	0	1	PILE	CIVSUR
1940	MOOR	Mooring	V-CHAN-DOCK	Docks, decks, floats, piers, and mooring facilities	5	0	1	PILE	CIVSUR
		Channel/canal elevations	V-CHAN-TEXT	Channel/canal text, annotation with associated leaders	4	0	1	Elev Txt	

2100	Vegetation		V-SITE-VEGE-IDEN	Existing treelines and vegetation - identification	18	0	2	Elev Txt	
2101	EDG WOODS	Edge of Woods	V-SITE-VEGE	Existing treelines and vegetation	18	0	2	TREEL	CIVSUR
2102	TREE	Tree	V-SITE-VEGE	Existing treelines and vegetation	18	0	2	TREE	CIVSUR
2103	B_TREE	Blazed Tree	V-SITE-VEGE	Existing treelines and vegetation	6	0	2	TREE	CIVSUR
2104	BUSH	Bush	V-SITE-VEGE	Existing treelines and vegetation	18	0	2	TREE	CIVSUR
2106	S_TREE	Specimen Tree (define)	V-SITE-VEGE	Existing treelines and vegetation	18	0	2	TREE	CIVSUR
2300	Fences		V-SITE-FENC-IDEN	Fence, Handrail, Ramp, and Trail Annotation	5	0	1	Elev Txt	
2301	F_LINE	Fence Line (define type)	V-SITE-FENC	Fences and handrails	5	0,FENCE	1	LINE	CIVIL
2302	F_POST	Fence Post (define type)	V-SITE-FENC	Fences and handrails	5	0	1	PILE	CIVSUR
2303	F_GATE	Fence Gate Opening (width and type)	V-SITE-FENC	Fences and handrails	5	0	1	PILE	CIVSUR
2304	CATTLE_XING	Cattle Crossing (width and type)	V-SITE-FENC	Fences and handrails	5	0	1	LINE	
2305	F_CORNER	Fence Corner	V-SITE-FENC	Fences and handrails	5	0	1	PILE	CIVSUR
2600	Boundary Lines		V-PROP-CTRL-IDEN	Property Annotation	5	0	1	Elev Txt	
2601	FND PIN	Found Iron Pin/Rebar	V-PROP-CTRL	Property Control Points	5	0	1	IPC	SURV_SYMV8
2602	FND PIPE	Found Iron Pipe	V-PROP-CTRL	Property Control Points	5	0	1	IP	CIVIL
2603	FND PK	Found P.K. Nail	V-PROP-CTRL	Property Control Points	5	0	1	PK	
2604	FND CPS	Found Cotton Picker Spindle	V-PROP-CTRL	Property Control Points	5	0	1	IP	
2605	FND RRS	Found Railroad Spike	V-PROP-CTRL	Property Control Points	5	0	1	IP	
2606	FND AXLE	Found Axle	V-PROP-CTRL	Property Control Points	5	0	1	IP	
2607	FND CF	Found Crows Foot	V-PROP-CTRL	Property Control Points	5	0	1	IP	
2608	FND BS	Found Bolt Spike	V-PROP-CTRL	Property Control Points	5	0	1	IP	
2609	FND TR	Found Track	V-PROP-CTRL	Property Control Points	5	0	1	IP	
2610	FND HT	Found Hub & Tack	V-PROP-CTRL	Property Control Points	5	0	1	HUB	
2611	FND CP	Concrete Post	V-PROP-CTRL	Property Control Points	5	0	1	PILE	
2615	MMP	Metal Marker/Post (define)	V-PROP-CTRL	Property Control Points	5	0	1	PILE	
2620	FND WP	Found Wood Post	V-PROP-CTRL	Property Control Points	5	0	1	PILE	
2630	C_ROW	Concrete R.O.W. Monument	V-PROP-CTRL	Property Control Points	5	0	1	MON	CIVSUR
2631	ROW	R.O.W. Marker	V-PROP-CTRL	Property Control Points	5	0	1	MON	CIVSUR
2640	CEM	Cemetery Units	V-PROP-GRAV	Property Cemetary	22	0	1	GRAVE	CIVSUR
			V-PROP-LINE	Property lines (Existing recorded plats)	4	PROPL	2	Line	
			V-PROP-BRNG	Bearings and distance labels	5	0	2	Text	
2700	Survey Control Points, Baseline		V-SURV-IDEN	Survey, baseline, and control line annotation	5	0	1	Elev Txt	
		Baselines	V-SURV-LINE	Survey, baseline, and control line	7	2	1	Line	
2701	BL	Baseline Control Point (define)	V-SURV-DATA	Survey data (benchmarks and horizontal control points or monuments)	5	0	1	BM	CIVSUR
2702	POT	Point on Tangent (define)	V-SURV-DATA	Survey data (benchmarks and horizontal control points or monuments)	5	0	1	PILE	CIVSUR
2703	POR	Point on Range (define)	V-SURV-DATA	Survey data (benchmarks and horizontal control points or monuments)	5	0	1	PILE	CIVSUR
2710	TCP	Traverse Control Point (define)	V-SURV-DATA	Survey data (benchmarks and horizontal control points or monuments)	5	0	1	HORCPT	CVLS_SYMV8
2720	FLY	Side Shot Control Point (define)	V-SURV-DATA	Survey data (benchmarks and horizontal control points or monuments)	5	0	1	WH	CIVSUR
2730	VCP	Vertical Control Point (define)	V-SURV-DATA	Survey data (benchmarks and horizontal control points or monuments)	5	0	1	VERCPT	SURV_SYMV8
2740	GPS	GPS Control Point (define)	V-SURV-DATA	Survey data (benchmarks and horizontal control points or monuments)	5	0	1	GPS	CIVSUR
2799	CK	Check Shots (define)	V-SURV-CHK--NPLT	Survey Check Shot NOPLT Elevations	0	0	0	Elev Txt	

2900		Breakline	V-TOPO-BKLN-NPLT	Breaklines for DTM, No Plot	4	0	1	Line	
2901	BK	Break Point Elevation (define)	V-TOPO-BKLN-ANNO	Break point Annotation	0	0	2	Elev Txt	
2902	TOP_FAIL	Top Of Failure	V-TOPO-BKLN	Breaklines	0	4	2	Line	
2903	TOE_FAIL	Toe Of Failure	V-TOPO-BKLN	Breaklines	0	4	2	Line	
2905	LOW_TBK	Low Top Bank	V-TOPO-BKLN	Breaklines	0	4	2	Line	
2906	ON_ROAD	Shot on Road (define)	V-TOPO-SPOT	Spot elevations	4	0	1	Elev Txt	
2907	SHD_RD	Shoulder of Road	V-TOPO-BKLN	Breaklines	0	4	2	Line	
2908	TOE_RD	Toe of Road	V-TOPO-BKLN	Breaklines	0	4	2	Line	
2910	CL_SB	Centerline of Spoil Bank	V-BORW-LINE	Borrow/spoil area	4	2	1	Line	
2911	SHD_SB	Shoulder of Spoil Bank	V-BORW-LINE	Borrow/spoil area	4	2	1	Line	
2912	TOE_SB	Toe of Spoil Bank	V-BORW-LINE	Borrow/spoil area	4	2	1	Line	
2920	RTB	Right Top Bank	V-TOPO-SLOP-TOPT	Top/toe slopes	5	0	1	Line	
2921	RBT	Right Bank Toe	V-TOPO-SLOP-TOPT	Top/toe slopes	5	0	1	Line	
2930	LTB	Left Top Bank	V-TOPO-SLOP-TOPT	Top/toe slopes	5	0	1	Line	
2931	LBT	Left Bank Toe	V-TOPO-SLOP-TOPT	Top/toe slopes	5	0	1	Line	
2940	FL_D	Flowline Ditch (define)	V-DTCH-BOTM	Bottom of ditch or wash	2	0	0	Line	
2950	SLP	Bank Contour Point	V-TOPO-SLOP-FILL	Cut/fill slopes	4	0	1	Elev Txt	
3000		Spot Elevation							
3001	NG	Contour Spot Elevation (define)	V-TOPO-SPOT	Spot elevations	4	0	1	Elev Txt	
3016	NGCULV	Natural Ground at Culvert	V-TOPO-SPOT	Spot elevations	4	0	1	Elev Txt	
3021	NGWOODS	Natural Ground in Woods	V-TOPO-SPOT	Spot elevations	4	0	1	Elev Txt	
3026	NG_CEM	Natural Ground in Cemetery	V-TOPO-SPOT	Spot elevations	4	0	1	Elev Txt	
3400		Bore Holes	V-TOPO-BORE-IDEN	Boring elevations	5	0	1	Elev Txt	
3401	BORE	Bore Hole (soils)	V-TOPO-BORE	Boring locations and text	5	0	1	BORE	SURVEY
3402	PIEZ	Piezometer	V-WELL-PIZO	Piezometer symbol/text	5	0	1	PIEZOM	GEOT_SYMV8
3403	MTR	Monitoring Well	V-WELL-MONT	Monitoring well symbol/text	5	0	1	MONWEL	CVLS_SYMV8
3500		Storm Sewer	V-STRM-IDEN	Identifier tags, symbol modifier, and text	2	0	1	Elev Txt	
3501	DMH	Drain Manhole	V-STRM-MHOL	Manholes	3	0	1	SDMHOL	CVLS_SYMV8
3502	INLET	Inlet at Face of Curb (define)	V-STRM-INLT	Inlets (curb, surface, and catch basins)	2	0	1	INCG	CIVIL
3503	S_INLET	Single Inlet at Face of Curb	V-STRM-INLT	Inlets (curb, surface, and catch basins)	2	0	1	INCG	CIVIL
3504	D_INLET	Double Inlet at Face of Curb	V-STRM-INLT	Inlets (curb, surface, and catch basins)	2	0	1	INCG	CIVIL
3505	DR_INLET	Drop Inlet (Catch Basin)	V-STRM-INLT	Inlets (curb, surface, and catch basins)	2	0	1	CATBSN	CVLS_SYMV8
3506	RS_INLET	Raised Surface Inlet w/ Manhole	V-STRM-INLT	Inlets (curb, surface, and catch basins)	2	0	1	INMDP	CIVIL
3700		Sanitary Sewer	V-SSWR-IDEN	Identifier tags, symbol modifier, and text	4	0	1	Elev Txt	
3701	SMH	Sewer Manhole	V-SSWR-JBOX	Junction boxes and manholes	3	0	1	SNMHOL	CVLS_SYMV8
3702	SCO	Sewer Clean Out	V-SSWR-FTTG	Caps and Cleanouts	3	0	1	CLNOUT	CVLS_SYMV8
3703	SEPT	Septic Tank (Define)	V-SSWR-TANK	Septic Tanks	2	0	1	SPTANK	SURV_SYMV8
3710	FL_IN_SS	Flowline In (define size and type)	V-SSWR-IDEN	Identifier tags, symbol modifier, and text	4	0	1	Elev Txt	
3711	FL_OUT_SS	Flowline Out (define size and type)	V-SSWR-IDEN	Identifier tags, symbol modifier, and text	4	0	1	Elev Txt	
			V-SSWR-MAIN-PIPE	Sanitary sewer piping	5	SSWAFX	1	Line	

3900		Water Tanks & Fire Hydrants	V-DOMW-IDEN	Identifier tags, symbol modifier, and text	4	0	1	Elev Txt	
3901	WMH	Water Manhole	V-DOMW-MHOL	Junction boxes and manholes	5	0	1	MH	CIVSUR
3902	WM	Water Meter	V-DOMW-METR	Meters	2	0	1	WAMETR	SURV_SYMV8
3903	WV	Water Valve	V-DOMW-PITS-VLVE	Valve pits/vaults	2	0	1	WAMETR	SURV_SYMV8
3904	W_MAIN	Water Main	V-DOMW-MAIN-PIPE	Main Domestic water piping	5	WATRX	1	Line	
3905	WT	Water Tank	V-DOMW-TANK	Water Storage Tank	3	0	0	Line	
3906	SPRINK	Sprinkler Irrigation (define)	V-IRRG-EQPM	Irrigation Equipment (controllers, valves, heads, etc.)	2	0	1	WAVALT	SURV_SYMV8
3911	WELL	Well	V-DOMW-WELL	Water well houses	3	0	1	Line	
3920	FH	Fire Hydrant	V-DOMW-HYDR	Hydrants	3	0	1	FIREHD	CIVSUR
3921	FAUCET	Water Hydrant	V-DOMW-DEVC	Connectors, faucets, reducers, regulators, vents, intake points, taps, backflow preventers	5	0	1	HYDPR1	FIRE_SYMV8
4000		Buildings	V-BLDG-ANNO	Building and other structure annotation (1-S-B, 1-S-F, Etc.)	4	0	1	Elev Txt	
4001	BLD_MAJ	Major Building Corners (4 only) (define)	V-BLDG-OTLN	Building and other structure outlines	0	0	3	Line	
4002	BLD_MIN	Minor Building Corners (insets, porches, etc.)	V-BLDG-PRCH	Porches (attached, roof overhead)	7	0	2	Line	
4003	STAIR	Centerline Stairs (2 shots, top/bottom)	V-SITE-STRS	Stairs and ramps	5	0	1	Line	
4004	FFE	Finish Floor Elevation	V-BLDG-IDEN	Building Elevation Text (Finish Floor, Outline, Porch, Stairs, Etc.)	4	0	1	Elev Txt	
4005	MB	Mail Box	V-SITE-OTLN	Existing site features (play structures, bike racks, benches, rec equipment, satellite dishes)	7	0	3	MB	SURVEY
		Building Elevation Annotation	V-BLDG-IDEN	Building Elevation Text (Finish Floor, Outline, Porch, Stairs, Etc.)	4	0	1	Elev Txt	
4100		Gas Line, Features & Valves	V-NGAS-IDEN	Identifier tags, symbol modifier, and text	4	0	1	Elev Txt	
4101	GM	Gas Meter	V-NGAS-METR	Meters	2	0	1	GMTR	SURVEY
4102	GV	Gas Valve	V-NGAS-DEVC	Hydrant fill points, lights, vents, markers, rectifiers, reducers, regulators, sources, drips	5	0	1	GVAL	SURVEY
4103	GT	Gas Tank (define: shape, size, type, etc.)	V-FUEL-TANK	Fuel Tanks	2	0	1	GVAL	SURV_SYMV8
4300		Utilities: Power, Telephone, Satellite, Cellular	V-POWR-IDEN	Power annotation (Elevation test, Low wire, Etc.)	4	0	2	Elev Txt	
4301	EMH	Electric Manhole	V-POWR-JBOX	Junction boxes, pull boxes, manholes	42	0	2	EMH	CIVSUR
4302	EM	Electric Meter	V-POWR-DEVC	Junction boxes, pull boxes, manholes	46	0	2	EMTR	SURVEY
4303	UBOX	Utility Box (define: electric, telephone, etc.)	V-POWR-JBOX	Junction boxes, pull boxes, manholes	42	0	2	EJCT	SURVEY
4304	LP	Light Pole (define: single, double, type)	V-LITE-EXTR	Exterior lights	45	0	2	LITPOL	SURVEY
4305	SAT	Satellite Dish (define: size, mounting type)	V-SITE-OTLN	Existing site features (play structures, bike racks, benches, rec equipment, satellite dishes)	7	0	3	SATDSH	CIVSUR
4306	ANT	Antenna/Tower (define: radio, tv, cell, etc.)	V-SITE-OTLN	Existing site features (play structures, bike racks, benches, rec equipment, satellite dishes)	7	0	3	ESANTENNA	Aeci elect schem
4307	GL	Ground Light	V-LITE-EXTR	Exterior lights	45	0	2	LITPOL	CIVSUR
4308	PP	Power Pole	V-POWR-POLE	Power poles	45	0	2	PWRPOL	CIVSUR
			V-PRIM-OVHD	Overhead electrical utility lines	7	EPARX	2	Line	
			V-SECD-OVHD	Overhead electrical utility lines	41	ESARX	2	Line	
4309	PTP	Power and Telephone Pole	V-POWR-POLE	Power poles	45	0	2	PWRPOL	CIVSUR
4310	TOWER	Utility Tower (closest corner to project)(type)	V-POWR-DEVC	Capacitors, voltage regulators, motors, buses, generators, meters, grounds, and manholes	46	0	2	TOWER	CIVSUR
4311	PAD_TRANS	Transformer (Define)(Pad Mounted)	V-POWR-XFMR-PADM	Pad mounted transformer	46	0	2	TRANS	CIVSUR
4312	POLE_TRANS	Transformer (Define)(Pole Mounted)	V-POWR-XFMR-POLM	Pole mounted transformer	46	0	2	TRANS	CIVSUR
4320	TP	Telephone Pole	V-COMM-POLE	Poles	45	0	2	TPOL	CIVIL
4321	TMH	Telephone Manhole (CATV)	V-COMM-POLE	Poles	45	0	2	TMH	SURVEY
4322	TPED	Telephone Pedestal	V-COMM-POLE	Poles	45	0	2	TJCT	SURVEY
4323	BOOTH	Telephone Booth	V-COMM-POLE	Poles	45	0	2	TB	SURVEY
4330	S_POLE	Strain Pole	V-COMM-POLE	Poles	45	0	2	UTPLX	SURV_SYMV8
4340	GUY	Guy Anchor	V-POWR-POLE-GUYS	Guying equipment	45	0	2	GUY	CIVSUR
4350	LW	Low Wire	V-POWR-IDEN	Power annotation (Elevation test, Low wire, Etc.)	7	0	2	Elev Txt	

4500		Steam Line, Features & Valves	V-HTCW-STEM-IDEN	Steam service Annotation	16	0	0	Elev Txt	
4501	ST	Steam Line	V-HTCW-STEM-SERV	Steam service piping	16	0	0	Line	
4502	STV	Steam Line Valve	V-HTCW-STEM-SERV	Steam service piping	16	0	0	VAL	CIVSUR
4900		Soundings							
4901	SND	Sounding	V-TOPO-SOUN	Soundings and overbanks	0	0	0	Elev Txt	
5200		Navigation Aids	V-CHAN-NAID-IDEN	Navigation aids Annotation	4	0	0	Elev Txt	
5201	RED	Red Buoy	V-CHAN-NAID	Navigation aids and text	3	0	1	REDBU	CIVSUR
5202	GREEN	Green Buoy	V-CHAN-NAID	Navigation aids and text	2	0	1	Bouy	CIVSUR
5203	BUOY	Buoy (define: low wake, swimming, etc.)	V-CHAN-NAID	Navigation aids and text	4	0	1	Bouy	CIVSUR
5204	LIGHT	Day Marker, Nav Light, Beacon, Day Board	V-CHAN-NAID	Navigation aids and text	4	0	1	BCNLT2	SURV_SYM
5300		Levees, Dikes							
5301	CL_L	Centerline Levee	V-LEVE-CNTR	Levee centerline	6	7	0	Line	
		Centerline Levee Elevations	V-LEVE-CNTR-IDEN	Levee centerline annotation	6	0	1	Elev Txt	
5302	SHD_L	Shoulder of Levee	V-LEVE-BANK-TOPB	Levee top of bank	6	0	1	Line	
		Shoulder of Levee Elevations	V-LEVE-BANK-IDEN	Levee top of bank annotation	6	0	1	Elev Txt	
5303	SLP_L	Slope of Levee	V-LEVE-SLOP	Levee slope indicator with annotation	4	0	1	Elev Txt	
5304	TOE_L	Toe of Levee	V-LEVE-TOE~	Levee toe	6	2	1	Line	
		Toe of Levee Elevations	V-LEVE-TOE~-IDEN	Levee toe annotation	6	0	0	Elev Txt	
5305	TOP_BERM	Top of Berm	V-BERM-TOP~	Berm top	6	0	1	Line	
		Top of Berm Elevations	V-BERM-TOP~-IDEN	Berm top annotation	6	0	0	Elev Txt	
5306	TOE_BERM	Toe of Berm	V-BERM-TOE~	Berm toe	6	0	1	Line	
		Toe of Berm Elevations	V-BERM-TOE~-IDEN	Berm toe annotation	6	0	0	Elev Txt	
5311	CL_DK	Centerline of Dike	V-DIKE-CNTR	Dike centerline	6	7	0	Line	
		Centerline of Dike Elevations	V-DIKE-CNTR-IDEN	Dike centerline annotation	6	0	1	Elev Txt	
5312	CR_DK	Crown of Dike	V-DIKE-BANK-TOP~	Dike top of bank	6	0	1	Line	
			V-DIKE-BANK-IDEN	Dike top of bank annotation	6	0	1	Elev Txt	
5313	SLP_DK	Slope of Dike	V-DIKE-SLOP	Dike slope indicator with annotation	4	0	1	Elev Txt	
5314	TOE_DK	Toe of Dike	V-DIKE-TOE~	Dike toe	6	2	1	Line	
			V-DIKE-TOE~-IDEN	Dike toe annotation	6	0	0	Elev Txt	
5315	CL_W	Centerline of Weir	V-WEIR-CNTR	Weir centerline	6	7	0	Line	
			V-WEIR-CNTR-IDEN	Weir centerline annotation	6	0	1	Elev Txt	
5316	CR_W	Crown of Weir	V-WEIR-BANK-TOP~	Weir top of bank	6	0	1	Line	
			V-WEIR-BANK-IDEN	Weir top of bank annotation	6	0	1	Elev Txt	
5317	SLP_W	Slope of Weir	V-WEIR-SLOP	Weir slope indicator with annotation	4	0	1	Elev Txt	
5318	TOE_W	Toe of Weir	V-WEIR-TOE~	Weir toe	6	2	1	Line	
			V-WEIR-TOE~-IDEN	Weir toe annotation	6	0	0	Elev Txt	

5400	Pipeline & Bridges		V-BRDG-IDEN	Bridge annotation	4	0	1		
5401	TOP_PL	Top of Pipeline (define)	V-TOPO-BKLN-NGAS	Subsurface utilities natural gas breakline	0	NTGASN	2	Line	
5411	EXT_C_B	Exterior Corner of Bridge	V-BRDG-OTLN	Bridge outlines	7	0	2	Line	
5413	PIER	Pier (define)	V-SITE-STRC	Structures (bridges, sheds, foundation pads, footings, etc.)	22	0	1	Line	
5414	BENT	Bent (define)	V-SITE-STRC	Structures (bridges, sheds, foundation pads, footings, etc.)	22	0	1	Line	
5415	ABUT	Abutment	V-SITE-STRC	Structures (bridges, sheds, foundation pads, footings, etc.)	22	0	1	Line	
5420	LC_B	Low Chord	V-BRDG-CHRD-LOW~	Low chord	7	0	1	Elev Txt	
5421	GAGE	Gage (define: auto, staff, etc.)	V-STRM-FMON	Flow Monitoring Station	5	0	1	GAGE	CIVSUR
5700	Revetments								
5701	EDG_REV	Edge of Revetment (define)	V-RRAP-RVMT	Revetments	3	0	0	Line	
5702	ON_REV	On Revetment (define)	V-TOPO-SPOT	Spot elevations	4	0	1	Elev Txt	
6000	Roadways		V-ROAD-CNTR-IDEN	Road centerline annotation	3	0	0	Elev Txt	
6001	CLRD	Centerline of Roadway (width & type)	V-ROAD-CNTR	Road centerlines	3	7	0	Line	
8000	Roads, Parking, Walks, Railroads, Trails		V-ROAD-IDEN	Road, street, highway annotation	5	0	1	Elev Txt	
8001	ERD	Edge of Road (define)	V-ROAD-OTLN	Road outlines	7	0	1	Line	
			V-ROAD-ASPH	Road outlines - asphalt surface	9	0	0	Line	
			V-ROAD-CONC	Road outlines - concrete surface	0	0	0	Line	
			V-ROAD-GRVL	Road outlines - gravel surface	6	0	0	Line	
			V-ROAD-UPVD	Road outlines - unpaved surface	2	0	0	Line	
8002	FOC	Face Of Curb	V-ROAD-CURB	Curbs and gutters	5	0	1	Line	
8003	BOC	Back of Curb	V-ROAD-CURB	Curbs and gutters	5	0	1	Line	
8004	FL_CURB	Flowline Curb/Gutter	V-ROAD-CURB	Curbs and gutters	5	0	1	Line	
8005	F_WALK	Front of Sidewalk	V-SITE-WALK	Walks, trails, and bicycle paths	4	0	1	Line	
8006	B_WALK	Back of Sidewalk	V-SITE-WALK	Walks, trails, and bicycle paths	4	0	1	Line	
8007	GRD	Guardrail	V-ROAD-GRAL	Guard rails	5	GUARD	1	Line	
8008	CL_RR	Centerline of Railroad	V-RAIL-CNTR	Railroad track centerlines	3	7	0	Line	
		Centerline of Railroad Elevations	V-RAIL-CNTR-IDEN	Railroad track centerline annotation	3	0	1	Elev Txt	
8009	E_DR	Edge of Driveway (define)	V-PRKG-OTLN	Parking lot outlines	7	0	2	Line	
8010	R_RET	Roadway Retaining Wall (define)	V-SITE-STRC	Structures (bridges, sheds, foundation pads, footings, etc.)	22	0	1	Line	
8011	E_PL	Edge of Parking Lot (type)	V-PRKG-OTLN	Parking lot outlines	7	0	2	Line	
8012	JERSEY	New Jersey Barriers	V-SAFE-PARA	Parapet/jersey barrier	2	3	0	Line	
8013	HC_RAMP	Handicap Ramp	V-SITE-WALK	Walks, trails, and bicycle paths	4	0	1	Line	
8014	SHD_RR	Shoulder of Railroad Bed	V-RAIL-SHLD	Railroad Shoulders	5	0	1	Line	
8015	TOP_RR	Top Rail - Railroad Track	V-RAIL-TRAK	Railroad tracks	4	RAILS	1	Line	
		Railroad Elevations	V-RAIL-IDEN	Railroad - annotation	4	0	1	Elev Txt	
8016	RR_SW	Railroad Switch	V-RAIL-EQPM	Railroad equipment (e.g., gates, signals)	106	0	1		

9000		Concrete Joint Layout						
		Elevations for Concrete Pads	V-SITE-IDEN	Existing site feature/structure annotation	5	0	1	Elev Txt
9001	C_PAD	Corner Concrete Pad	V-SITE-STRC	Structures (bridges, sheds, foundation pads, footings, etc.)	22	0	1	Line
9002	E_PAD	Edge Concrete Pad	V-SITE-STRC	Structures (bridges, sheds, foundation pads, footings, etc.)	22	0	1	Line
9003	ON_PAD	On Concrete Pad	V-SITE-STRC	Structures (bridges, sheds, foundation pads, footings, etc.)	22	0	1	Elev Txt
		Miscellaneous						
9999	MISC	Miscellaneous	V-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	0	0	0	
			V-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	0	0	0	
			V-ANNO-KEYN	Reference keynotes with associated leaders	0	0	0	
			V-ANNO-LEGN	Legends and symbols keys	0	0	0	
			V-ANNO-NOTE	General notes and general remarks	4	0	2	
			V-ANNO-NPLT	Non-plotting graphic information	1	0	0	
			V-ANNO-PATT	Patterning, poche, shading, and hatching	9	0	0	
			V-ANNO-RDME	Read-me information	1	0	0	
			V-ANNO-SYMB	Reference symbols	5	0	0	
			V-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	0	0	0	
			V-ANNO-REDL	Redlines	3	0	1	
			V-ANNO-REVS	Revisions	7	0	3	
			V-ANNO-SCHD	Schedules	0	0	0	
			V-ANNO-MATC	Match lines	0	0	5	
			V-ANNO-MASK	Text/shape mask for use with photo backgrounds	16	0	0	
			V-ALGN-DATA	Alignment coordinates and curve data	2	0	1	
			V-ALGN-LINE	Alignments	4	4	1	
			V-ALGN-MAJR	Alignment major stationing and tick marks	3	0	1	
			V-ALGN-MARK	Alignment tick marks	2	0	1	
			V-ALGN-MINR	Alignment minor stationing and tick marks	5	0	0	
			V-ALGN-STAT	Alignment stationing	2	0	1	
			V-ALGN-SYMB	Alignment symbols (PIs)	5	0	1	
			V-ALGN-TEXT	Alignment text, annotation with associated leaders	4	0	1	
			V-ANNO-PTNO	Point Nuber Text	0	0	0	Text
			V-ANNO-PTDS	Point Description (Alpha)	0	0	0	Text
			V-ANNO-PTCD	Point Code (4 digit Numeric)	0	0	0	Text
			V-ANNO-PNTS	Survey Points (dot, cross, x, etc.)	0	0	0	Symbol
			V-ANNO-DETL	Bridge and Culvert Details	0	0	0	

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