CITY OF GRASS VALLEY



PUBLIC WORKS DEPARTMENT - ENGINEERING DIVISION

CONSTRUCTION STANDARDS

AND

STANDARD DETAILS

Revision: May 2016

TABLE OF CONTENTS

Section 1

Purpose, Definitions and Abbreviations (PD)

1-1	Purpose		PD 1
1-2	Construc	PD 1	
1-3	Definitio	PD 1	
1-4	Abbrevia	PD 4	
1-5	Updates		PD 6
	I	Section 2	
		Section 2	
		Responsibilities and Requirements (RR)	
2-1	General		RR 1
2-2	Develope	er's Responsibility	RR 1
	А.	Consulting Engineer Change	RR 1
	В.	Inspection and Other Fees	RR 1
	C.	Overtime Inspection Fees	RR 2
	D.	Plan Revisions During Construction	RR 2
	E.	Plans and Permits	RR 2
	F.	Record Drawings	RR 3
2-3	Contracto	or's Responsibility	RR 3
	А.	Blasting and Explosive Requirements	RR 3
	В.	Cultural Resources	RR 3
	C.	Concrete Truck Washout Areas	RR 3
	D.	Construction Safety	RR 3
	E.	Contractor Employee Vehicle Parking	RR 3
	F.	Dust Control	RR 3
	G.	Emergency Contact Person	RR 4
	H.	Fluid Discharge	RR 4
	I.	Hazardous Materials	RR 4
	J.	Inspection Requirements	RR 4
	К.	Interruption of Parking Areas	RR 5
	L.	Material Disposal	RR 5
	М.	Materials Approval	RR 5
	N.	Notification/Preconstruction Meeting	RR 5
	О.	Personnel	RR 6
	Р.	Plans	RR 6
	Q.	Preservation of Property	RR 6
	R.	Record Drawings	RR 6
	S.	Staking	RR 6
	Т.	Storm Water Pollution Prevention Plan (SWPPP)	RR 6
	U.	Street Cleaning	RR 6
	V.	Survey Monuments	RR 6
	W.	Temporary Fencing	RR 6
	Х.	Trenching Safety	RR 7
	Υ.	Traffic Control	RR 7
	Z.	Trailer and Material Storage	RR 9
	AA.	U.S.A. Markings	RR 9
	BB.	Weather	RR 9
	CC.	Working Hours	RR 9
	DD.	Public Works Contractor Registration Program	PR 9
			CST

2-4	Residenti	ial Occupancies During Subdivision Building	RR 9
	А.	Barricades	RR 9
	В.	Debris	RR 9
	C.	Erosion Control	RR 9
	D.	Landscaping Materials	RR 10
	E.	Other Requirements	RR 10
	F.	Street Cleaning	RR 10
	G.	Street Lighting	RR 10
	H.	Street Parking	RR 10
2-5	Requirements for Subdivision Certificate of Completion (C.O.C.)		RR 10
	A.	Landscaping	RR 10
	В.	Final Inspection	RR 11
	C.	Bond	RR 11
	D.	Fees	RR 11
	E.	Pad Certificates	RR 11
	F.	Record Drawings	RR 11
	G.	Certificate of Completion	RR 11
2-6	Warranty	and Guarantee	RR 11
	А.	Security	RR 11
	В.	Repairs	RR 11
	C.	Obligations	RR 12
	D.	Release of Security	RR 12
	21		

Section 3 Streets (ST)

3-1	General	× ,	ST 1
3-2	Existing Roadw	ay Disturbance	ST 1
	A. Existing	Stub Street Connection	ST 1
		Videning	ST 1
	C. Sawcutt	ing Existing Streets	ST 1
		nt Roadway Excavation	ST 1
	E. Paveme	nt Milling Requirements	ST 1
3-3	Construction Sta	aking	ST 1
3-4	Utility Relocation		ST 2
3-5	Trench Work		ST 2
	A. Existing	g Pavement Trenching	ST 2
	B. Trench	T-Cut	ST 2
	C. Weather	r	ST 2
	D. Water in	n Trench	ST 2
	E. Unsuita	ble Trench Bottom	ST 2
	F. Trench	Backfill	ST 3
	G. Inspecti	on	ST 4
	H. Tempor	ary Surfacing	ST 4
	I. Steel Pl	ates	ST 4
3-6	Installation		ST 4
	A. General		ST 4
	B. Subgrad	le	ST 4
	C. Aggrega	ate Base	ST 5
	D. Concret	e	ST 5
	E. Asphalt	Concrete Paving	ST 8
	F. Sound a	and Retaining Walls	ST 9
	G. Survey	Monuments	ST 9
			CST
			TOC 2 OF 11

	H.	Street Barricades	ST 9
	I.	Pavement Removal	ST 9
	J.	Utility Boxes	ST 10
	K.	Slurry Seal	ST 10
	L.	Raising Iron to Finished Grade	ST 10
3-7	Signs		ST 10
	A.	Street Signs	ST 10
	B.	Sign Posts	ST 10
	C.	Roadside Signs	ST 11
3-8		Stripes and Pavement Markings	ST 11
2 0	A.	Material	ST 11
	B.	Removal	ST 12
	C.	Thermoplastic Application	ST 12 ST 12
3-9	Materia		ST 12 ST 13
57	A.	Aggregate Base and Subbase	ST 13
	В.	Asphalt Concrete	ST 13
	C.	Concrete	ST 13
	D.	Concrete Curing Compound	ST 13
	D. E.		ST 13 ST 13
	E. F.	Epoxies, Patching Material Filter Fabric	ST 13 ST 13
	г. G.	Reinforcement Bar	ST 13 ST 13
	О. Н.		ST 15 ST 14
	п. I.	Sign Posts	ST 14 ST 14
	I. J.	Slurry Seal Truncated Domes	ST 14 ST 14
STANDAR			Attached at end of section
	ST-1	TYPICAL TRAFFIC CONTROL LANE CLOSURE/TRANSI	TION
	ST-2	UTILITY TRENCH BEDDING, BACKFILL AND PAVING	
	ST-3	CURB, GUTTER AND SIDEWALK	
	ST-4	CURB RAMP DETAIL, CASE "A"	
	ST-5	CURB RAMP DETAIL, CASE "B"	
	ST-6	CURB RAMP DETAIL, CASE "C"	
	ST-7	BARRIER CURB AND VALLEY GUTTER	
	ST-8	MEDIAN ISLAND	
	ST-9	RESIDENTIAL AND COMMERCIAL DRIVEWAY	
	ST-10	BUS TURNOUT CONCRETE SLAB	
	ST-11	BUS STOP SHELTER PAD	
	ST-12	SHARED USE PATH	
	ST-13	RESIDENTIAL ALLEY	
	ST-14	MINOR RESIDENTIAL STREET (PARKING ONE-SIDE)	
	ST-15	MINOR RESIDENTIAL STREET (NO PARKING)	
	ST-16	PRIMARY RESIDENTIAL STREET	
	ST-17	COLLECTOR STREET (NO PARKING)	
	ST-18	MODIFIED COLLECTOR STREET 1	
	ST-19	MODIFIED COLLECTOR STREET 2	
	ST-20	COLLECTOR STREET (WITH PARKING)	
	ST-21	ARTERIAL STREET	
	ST-22	CUL-DE-SAC STREET	
	ST-23	STANDARD ELBOW	
	ST-24	RESIDENTIAL BULBED INTERSECTION	
	ST-25	RESIDENTIAL RAISED INTERSECTION	
	ST-26	LANDSCAPE SIGHT DISTANCE	
	ST-27	SIGHT DISTANCE REQUIREMENTS	
			CST

|--|

- ST-29 SIDEWALK BARRICADE
- ST-30 PEDESTRIAN BARRICADE
- ST-31 END OF STREET TIMBER BARRICADE
- ST-32 BOLLARD
- ST-33 STREET NAME SIGN
- ST-34 BOXED SURVEY MONUMENT
- ST-35 TRASH ENCLOSURE
- ST-36 SPEED HUMP
- ST-37 ACCESS ROAD GROOVING
- ST-38 UTILITY LINE LOCATIONS

Section 4

Water Supply System (W)

4-1	General		W 1
4-2	Connectio	on to Existing Facilities	W 1
	A.	System Tap	W 1
	В.	System Tie-In	W 1
4-3	Construct	tion Staking	W 2
4-4	Concrete	Cradles, Arches & Encasements	W 2
	А.	Placement	W 2
	В.	Installation	W 2
4-5	Trenching	g and Backfill	W 2
	А.	Excavations	W 2
	В.	Bell Holes	W 2
	С.	Pipe Support	W 2
	D.	Trench Backfill and Compaction	W 2
4-6	Pipe Insta	allation	W 3
	А.	Storage of Pipe	W 3
	В.	Pipe Placement	W 3
	C.	Joints	W 3
	D.	Manufacturer's Recommendations	W 3
	E.	Mechanical Restraint	W 3
	F.	Tracing Wire	W 3
	G.	Marking Tape	W 3
	H.	Marking Pipe in Unpaved Areas	W 4
	I.	Protection of Underground Metal	W 4
	J.	Polyvinyl Chloride (PVC) Pressure Pipe Installation	W 4
	Κ.	Ductile Iron Pipe (DIP)	W 5
	L.	Ductile Iron Pipe Fittings	W 5
	М.	Transitions Between DIP and PVC	W 5
	N.	Boring of Water Lines	W 5
	О.	Vertical Elevation Change	W 5
	Р.	Bridges and Casings	W 6
4-7	Service I	nstallation	W 6
	А.	Continuity of Installation	W 6
	В.	Separation of Taps, Service Saddles and Fittings	W 6
	C.	Wrapping Service Saddles	W 6
	D.	Service Manifolds	W 6
	E.	Backflow Prevention Device	W 6
	F.	Freeze Protection for Backflow Assemblies	W 6
	G.	Marking Residential Water Service	W 6
			CST

	H.	Caps on Service Saddles	W 6
4-8	Abandonm	nent of Services and Mains	W 6
4-9	Appurtena	nces Installation	W 7
	A.	Encasement	W 7
	В.	Gate Valves and Extensions	W 7
	C.	Coating Buried Nuts and Bolts	W 7
	D.	Reflectors for Fire Hydrants	W 7
	E.	Paint for Fire Hydrants	W 7
	F.	Blow-Offs for Dead-End Lines	W 7
	G.	Insulating Kits	W 7
4-10	Testing Pr		W 7
	А.	Pressure Test	W 7
	В.	Chlorine Disinfection	W 8
	C.	Water Quality Testing	W 9
	D.	Tying Into the City System	W 9
	Ε.	Continuity Testing	W 9
	F.	Corrosion Protection System Testing	W 9
4-11		Installed Improvements	W 10
	А.	Damaged or Failed Pipe Sections	W 10
	B.	Backfill	W 10
	C.	Encasement Repair	W 10
4-12	Punchlist I	Process	W 10
4-13	Materials		W 10
	A.	Water Main	W 10
	B.	Services	W 10
	C.	Appurtenances	W 12
STAN	DARD DET		Attached at end of section
	W-1	³ /4" & 1" SERVICES	
	W-2	1-½" & 2" SERVICES	
	W-3 W-4	4" AND LARGER SERVICES	
		REDUCED PRESSURE BACKFLOWASSEMBLY 2" AND S	
	W-5	FIRE PROTECTION ASSEMBLY / DOUBLE CHECK VALV	VЕ
	W-6	FIRE HYDRANT ASSEMBLY	
	W-7 W-8	CONSTRUCTION WATER DETAIL	
	w-8 W-9	SADDLE DETAIL GATE VALVE AND BOX	
	W-9 W-10	2" BLOWOFF ASSEMBLY	
	W-10 W-11	1" AND 2" AIR RELEASE VALVE ASSEMBLY	
	W-11 W-12	TRACING WIRE SPLICE	
	W-12 W-13	EXOTHERMIC WELD	
	W-13 W-14	SHALLOW WATER MAINS	
	W-14 W-15	THRUST BLOCKS	
	W-15 W-16	WATER QUALITY SAMPLING STATION	
	W-10 W-17	INDOOR REDUCED PRESSURE BACKFLOW DEVICE	
	W-17 W-18	APPROVED METHODS FOR FILLING WATER TANKERS	
	W-10 W-19	34" & 1" DOUBLE WATER SERVICE	
	W 17		
		Section 5	
		Sanitary Sewer System (SS)	
5-1	General	• • • · · ·	SS 1
5-2	Connection	n to Existing Facilities	SS 1
	А.	System Tap	SS 1
		-	CST
			TOC 5 OF 11

	B.	Existing Sewer Stubs	SS 1
	C.	Sewer System Outfalls	SS 1
5-3	Construc	tion Staking	SS 1
5-4	Concrete	Cradles, Arches and Encasements	SS 1
	A.	Pipe Supports and Anchors	SS 2
	В.	Cradles and Arches	SS 2
	C.	Concrete	SS 2
5-5	Trenchin	g and Backfill	SS 2
	A.	Excavations	SS 2
	В.	Bell Holes	SS 2
	C.	Pipe Support	SS 2
	D.	Trench Backfill and Compaction	SS 2
5-6	Pipe Insta	allation	SS 2
	А.	Pipe Cleanliness	SS 2
	В.	Placing Pipe	SS 3
	C.	Joining Pipe	SS 3
	D.	Manufacturer's Recommendations	SS 3
	E.	Markings in Unpaved Areas	SS 3
	F.	Ductile Iron Pipe Installation	SS 3
	G.	Transitions from Vitrified Clay Pipe	SS 3
	H.	Boring	SS 4
	I.	Backfill Tape	SS 4
5-7	Manhole	Installation	SS 4
	A.	Top of Manhole in Pavement	SS 5
	В.	Top of Manhole Off Roadway	SS 5
	C.	Frame and Lid	SS 5
	D.	Existing Manholes	SS 5
	E.	Bases	SS 5
	F.	Adjusting Manholes	SS 5
	G.	60" and 72" Diameter Manholes	SS 5
	H.	Epoxy Coated Manholes	SS 5
	I.	Manhole Backfill	SS 6
5-8	Service I	nstallation	SS 6
		Aarking Residential Sewer Services	SS 6
		Backflow Prevention	SS 7
5-9	Testing o	f Installed Improvements	SS 7
	A.	Sewer Mains and Services	SS 7
	B.	Manholes	SS 8
5-10	Punchlist		SS 9
5-11		ing Sewer Stubs and Services	SS 9
5-12	Materials	•	SS 9
	A.	Sewer Mains and Service Laterals	SS 9
	B.	Manholes	SS 9
	C.	Appurtenances	SS 11
	D.	Back Flow Prevention Devices	SS 11
	E.	Sewer Lift Stations	SS 11
STAN	DARD DE		Attached at end of section
~	SS-1	STANDARD SEWER MANHOLE	
	SS-2		
	SS 2	SEWER MINIMOLE I MINIE MID COVER	

- SS-3 SEWER SERVICES
- SS-4 SEWER SERICE CLEANOUT
- SS-5 SEWER AND WATER SEPARATION DETAILS

SS-6	STANDARD SEWER LIFT STATION SITE PLAN
SS-7	OUTSIDE DROP CONNECTION
SS-8	INSIDE DROP SEWER MANHOLE
SS-9	STANDARD SEWER AIR RELEASE VALVE

Section 6 Storm Drainage (SD)

6-1	General		SD 1
6-2	Constructi	on Staking	SD 1
6-3		Inlet Installation	SD 1
6-4		nstallation	SD 1
	А.	Bases	SD 1
	В.	Cones	SD 2
	C.	Joints	SD 2
	D.	Connections	SD 2
	E.	Grade Rings	SD 2
	F.	Frames and Covers	SD 2
	G.	Adjusting Existing Manhole Frames	SD 3
	H.	Manhole Backfill	SD 3
6-5	Junction E	Boxes/Vaults	SD 3
6-6	Area Drain		SD 3
6-7	Trenching	and Backfill	SD 3
	А.	Excavation	SD 3
	В.	Pipe Support	SD 3
	C.	Trench Backfill and Compaction	SD 3
6-8	Pipe Instal		SD 4
	А.	Laying Pipe	SD 4
	В.	HDPE Pipe Testing	SD 4
	C.	Pipe Laying Tolerances	SD 5
	D.	Reinforced Concrete Pipe	SD 5
	E.	CMP Pipe	SD 5
	F.	Pavement Cutting and Repaving	SD 5
	G.	Cleaning of Storm Drain System	SD 5
6-9		ining Installations	SD 5
	А.	Surface Preparation	SD 5
	В.	Reinforcement	SD 5
	C.	Joints	SD 5
	D.	Weep Holes	SD 5
	E.	Cutoff Walls	SD 6
6-10	Materials		SD 6
	Α.	Backfill Material	SD 6
	B.	Drainage Inlets	SD 6
	C.	Manholes	SD 6
	D.	Storm Drain Pipe	SD 7
	E.	Stormwater Treatment Devices	SD 7
	F.	Slurry Cement Backfill	SD 7
077.4.3	G.	Lined Channels	SD 8
STAN	IDARD DET		Attached at end of section
	DR-1	STANDARD PRECAST DRAINAGE MANHOLE	
	DR-2	TYPE A & B SADDLE MANHOLE	COVED
	DR-3	STANDARD DRAINAGE MANHOLE FRAME AND	CUVER

- DR-4 EROSION CONTROL PIPE DISCHARGE
- DR-5 EROSION CONTROL DITCH DISCHARGE

DR-6	HEADWALL
DR-7	PIPE INLET STRUCTURE
DR-8	PIPE INLET/OUTLET STRUCTURE AND TRASH RACK
DR-9	LINED CHANNEL SECTION
DR-10	TRENCH DEPTH & MINIMUM COVER REQUIREMENTS
	G (* 7

Section 7 Grading (GR)

7-1	General		GR 1
7-2	Construction	on Staking	GR 1
	А.	Channels	GR 1
	В.	Erosion Control Measures	GR 1
	C.	Pads	GR 1
	D.	Retaining Walls	GR 1
	E.	Roadways	GR 1
7-3	Installation		GR 1
	А.	Channels	GR 1
	В.	Storm Water Pollution Prevention Plan (SWPPP)	GR 1
	C.	Erosion Control Measures	GR 1
	D.	Pads	GR 3
	E.	Retaining Walls	GR 4
	F.	Roadways	GR 4
	G.	Trees	GR 4
	H.	Grading Adjacent to Wetlands	GR 5
7-4	Materials		GR 6
	А.	Wetland Preserve Fencing	GR 6
7-5	Soil Testin	g Procedures and Frequencies	GR 6
	А.	Field Testing	GR 6
	В.	Minimum Reporting Requirements	GR 7
	C.	Trench Backfill Testing Frequencies	GR 7
STANDARD DETAILS		AILS	Attached at end of section
	GR-1	CLASS 1 LOT GRADING	
	GR-2	LOT GRADING CLASS II AND III	

- LOT GRADING CLASS II AND III
- EXTERIOR PERIMETER PROPERTY LINE GRADING GR-3
- GR-4 INTERIOR PROPERTY LINE GRADING GR-5
 - TREE PROTECTION

Section 8

Landscaping and Irrigation (LS)

8-1	General		LS 1
8-2	Irrigation	LS 1	
	А.	Trenching	LS 1
	В.	Backfill	LS 1
	C.	Control Wiring	LS 1
	D.	Irrigation Controller	LS 2
	E.	Conduits	LS 2
	F.	PVC/ Brass Pipe	LS 2
	G.	Sprinkler Heads	LS 3
	H.	Valves	LS 3
	I.	Valve Boxes	LS 3
8-3	Irrigation Testing		LS 3
	A.	Service Lines and Irrigation Main	LS 3
	В.	Leak Repair	LS 4
			CCT

	C.	Electrical System	LS 4
8-4	Planting In	stallation	LS 4
	А.	Soil Preparation	LS 4
	В.	Soil Conditioning	LS 4
	C.	Fine Grading	LS 4
	D.	Tree, Shrub and Ground Cover Planting	LS 4
	E.	Hydromulch Seeding	LS 5
	F.	Seeding	LS 6
	G.	Sod Planting	LS 6
8-5	Maintenand	ce Period	LS 6
	А.	Preliminary Inspection	LS 6
	В.	Maintenance Period	LS 6
	C.	Overall Maintenance Requirements	LS 6
	D.	Watering	LS 7
	E.	Lawn Maintenance	LS 7
8-6	Final Inspe	ction and Acceptance	LS 7
	А.	Final Inspection	LS 7
	В.	Corrective Work	LS 7
	C.	Acceptance	LS 7
8-7	Guarantee		LS 7
	А.	Plants	LS 7
	В.	Irrigation	LS 8
8-8	Irrigation N	Materials	LS 8
	А.	Electrical	LS 8
	В.	Pull Box Covers	LS 8
	C.	Irrigation Controller	LS 8
	D.	Pipes and Fittings	LS 9
	E.	PVC Pipe Cements	LS 9
	F.	Sprinkler Heads	LS 9
	G.	Sprinkler Risers	LS 10
	Н.	Valves and Valve Boxes	LS 10
8-9	Planting M	aterials	LS 10
	А.	Backfill	LS 10
	B.	Fertilizer	LS 10
	C.	Herbicide	LS 10
	D.	Hydromulch Seeding	LS 10
	E.	Imported Topsoil	LS 11
	F.	Mulch	LS 11
	G.	Plant Stock and Ground Cover	LS 11
	H.	Seed	LS 12
	I.	Soil Amendment	LS 12
	J.	Tree Stakes	LS 12
STANDARD DETAILS		AILS	Attached at end of section
	LSC-1	TREE PLANTING	
	LSC-2	GROUND COVER PLANTING	
	LSC-3		
	LSC-4	IRRIGATION THRUST BLOCK DETAIL	
	LSC-5	ABOVE GROUND EMITTER	
	LSC-6	POP UP SPRAY HEAD	
	LSC-7	GATE VALVE (3" AND SMALLER)	

- LSC-8 QUICK COUPLING VALVE
- LSC-9 ELECTRIC CONTROL AND GATE VALVE

Section 9 Signals and Lighting (SG)

9-1	General		SG 1
9-2	Foundatio	DNS	SG 1
9-3	Standard, Steel Pedestal and Post		SG 1
	А.	Four Section Displays	SG 1
	В.	Five Section Displays	SG 1
	C.	Field Welding	SG 1
	D.	Future Tenons	SG 1
9-4	Conduit N	Material	SG 1
9-5	Conduit Installation		SG 1
	А.	Depth	SG 1
	B.	Signal Interconnect	SG 2
	C.	End Sealing	SG 2
	D.	Trench Width	SG 2
	E.	Trench Backfill	SG 2
9-6	Pull Boxe	28	SG 2
	А.	Locations	SG 2
	В.	Conduit	SG 2
	C.	Box Type	SG 2
	D.	Abandoned Boxes	SG 2
9-7	Conducto	ns	SG 2
	А.	Grounding Conductors	SG 2
	В.	Identification	SG 2
	C.	Signal Interconnect	SG 2
	D.	Wiring Installation	SG 3
9-8	Bonding and Grounding		SG 3
	А.	Grounding Electrodes	SG 3
	В.	Grounding Connections	SG 3
	C.	Bonding	SG 3
9-9	Testing		SG 3
	А.	Ground Testing	SG 3
	В.	Functional Testing	SG 3
9-10	-	cy Vehicle Preemption Equipment	SG 3
	А.	Existing Signals	SG 4
	В.	Labels	SG 4
9-11	Signal Se		SG 4
	А.	Signal Faces	SG 4
	B.	Backplates	SG 4
	C.	Front Screen	SG 4
	D.	Terminal Compartments	SG 4
	E.	Extra Support	SG 4
	F.	Sealing	SG 4
9-12		n Displays and Signals	SG 5
	A.	Туре	SG 5
0.10	В.	Mounting	SG 5
9-13	Detection		SG 5
0.4.4	A.	Camera Units	SG 5
	B.	Detector Boards	SG 5
	C.	Video Monitor	SG 5
9-14	Vehicle D		SG 5
	А.	Loop Wire	SG 5

	В.	Hand Holes	SG 5
	C.	Verification	SG 5
	D.	New Pavement Installation	SG 5
	E.	Labels	SG 6
	F.	Testing	SG 6
	G.	Circuitry	SG 6
9-15	Accessibl	e Pedestrian Signals and Push Button Assemblies	SG 6
9-16	Existing H	Electrical Equipment	SG 6
9-17	Street Light Poles		SG 7
	А.	Galvanized Steel Poles	SG 7
	В.	Aluminum Poles	SG 7
9-18	Street Light Service		SG 7
	А.	Direct Service	SG 7
	В.	Multiple Service	SG 7
9-19	Luminaires		SG 7
	A.	LED Street Luminaires	SG 7
	В.	Photoelectric Controls	SG 7
	C.	Shielding	SG 7
9-20	Painting		SG 8
	А.	Cleaning	SG 8
	В.	Coating	SG 8
	C.	Spot Finishing	SG 8
	D.	Painting	SG 8
STAN	DARD DE'	TAILS	Attached at end of section
	SG-1	STREET LIGHT POLE	