

CITY OF ROSEVILLE

DESIGN AND CONSTRUCTION DETAILS

January 2025

Trench Backfill

Utility Trench Paving Backfill and Embedment	TB 1
HDPE, SRHDPE & PVC Storm Drain Pipe Only (Nonrigid)	TB 2
Bedding and Backfill	
Deep Cut "T" Patch Reconstruction Asphalt Streets	TB 3
Deep Cut "T" Patch Reconstruction Concrete Streets	TB 3A
Rock Wheel Trench (In Existing Street)	TB 4
Pothole Reconstruction	TB 5

Streets

Alley Detail	ST 1a
Modified Alley Residential	ST 1b
Minor Residential Streets – Attached Sidewalk	ST 2
Minor Residential Streets – Detached Sidewalk	ST 3
Primary Residential Streets – Attached Sidewalk	ST 4
Primary Residential Streets – Detached Sidewalk	ST 5
Collector/Industrial Streets – Attached Sidewalk	ST 6
Collector/Industrial Streets – Detached Sidewalk	ST 7
Minor Arterial Streets	ST 8
Major Arterial Streets	ST 9
Four-lane Arterial Single Left Turns	ST 10
Four-lane Arterial Dual Left Turns	ST 11
Six-lane Arterial Single Left Turns	ST 12
Six-lane Arterial Dual Left Turns	ST 13
Cul-De-Sac Street	ST 14
Offset Cul-De-Sac Street	ST 15
Standard Elbow	ST 16
Type 1 and 2 Curb and Gutter with Sidewalk	ST 17
Barrier Curbs and Valley Gutters	ST 18
Acceleration Lane for Free Rights	ST 19
"Type S" Driveway Apron	ST 20
"Type D" Driveway Apron	ST 21
"Type A-7" Driveway	ST 22
Right Turn Curb Flare	ST 23
Right Turn Curb Flare (With "Type A-7" Driveway)	ST 24
Private Gated Entrance	ST 25
Case "C" Pedestrian Curb Ramp – Attached Sidewalk	ST 26
Case "C" Pedestrian Curb Ramp at Curb Return – Detached Sidewalk	ST 27
Bus Stop Shelter Pad	ST 28
Bus Turnout Concrete Slab	ST 29
Gull Wing Design	ST 30

Temporary Sidewalk Barricade	ST 31
Pedestrian Barricade	ST 32
Stub Street Barricade	ST 33
End of Street Timber Barricade	ST 34
Detectable Warning (Truncated Dome Panel) Retrofit or Replacement	ST 35
Boxed Survey Monument	ST 36
Stamped Concrete	ST 37
Bollard	ST 38
Fixed Bollard	ST 38A
Emergency Access Gate Through Landscape Median	ST 39
Typical Traffic Control Lane Closure/Transition	ST 40
Green Belt Access	ST 41
Under Walk Drain	ST 42
Under Walk Drain (Flows from Street)	ST 42A
Encasement for All Roseville Electric Junction Boxes in City Sidewalks	ST 43
Landscape Sight Distance	ST 44
Residential Bulbed Intersection	ST 45
Permitted Driveways Streets or Minor Arterials	ST 46
Minimum Driveway or Street Offset On Minor Arterial	ST 47
Bus Shelter/Driveway Locations	ST 48
Bus Shelter/Driveway Location - Acceleration Lane	ST 49
Roadway Structural Section Conform	ST 50
Portland Cement Concrete Roadway Structural Section Conform	ST 50a
6' High Tubular Steel View Fence	ST 51
Single Lane Roundabout Standard Construction	ST 52
Single Lane Roundabout Standard Striping and Signage	ST 53

Domestic Water

Water Main Trench and Backfill	W 1
Fire Protection Assembly	W 2
Onsite Fire Protection	W 3
Dead-End Hydrant Assembly	W 4
Residential 1" Service Line	W 5
Commercial 1" Service Line	W 6
Commercial/Irrigation 1 1/2" & 2" Service Line	W 7
Commercial 3" & Larger Service	W 8
Residential Water Service	W 9
Residential Water Service For Separated Sidewalks	W 10
Sampling Station	W 11
1" and 2" Air Release Valve Assembly	W 12
Fire Hydrant Assembly	W 13
Construction Water Detail	W 14
Backflow Manifold Schematic	W 15
Gate Valve & Box	W 16
Tracing Wire Splice	W 17

Trench and Backfill for All Water Line 2" and smaller	W 18
Insulating Flange Test Station	W 19
Exothermic Weld	W 20
Insulated Flange	W 21
Casing & Test Station	W 22
Shallow Water Mains	W 23
Siphon S Concrete Encasement	W 24
36" Manhole Ring and Cover	W 25
Saddle Detail	W 26
Combination Pressure Reducing and Pressure Sustaining Valve	W 28
3", 4", 6", 8" Compound & Turbo Meter With Bypass	W 29
Flow thru Detail	W 30
Transmission Main Hydrant Blow Off	W 32
3" Through 6" ARV	W 33
16" Mainline Valve Enclosure	W 34
24" larger Mainline Valve	W 35
Inspection Manhole for Transmission Mains	W 36
Inspection Port for Transmission Mains	W 37
Concrete Cap on Shallow CCP Transmission Main	W 38
Water Main and Sewer Main Crossing	W 39
Test Station	W 40
Galvanic Anode Installation	W 41
Chlorine Flushing / Monitoring Station	W 42

TRAFFIC SIGNALS – CITY APPROVED EQUIPMENT LIST

TRAFFIC SIGNALS

Typical Service and Wiring Schedule	TS 1
Typical Pole and Equipment Schedule	TS 2
Typical Conductor Schedule	TS 3
332 Controller/Service Cabinet Pad Detail	TS 4
Nema 2070 Controller/Service Cabinet Pad Detail	TS 5
332 to Type "P" Cabinet/Service Pad Conversion Detail	TS 6
Existing 332 to Type "P" Cabinet Pad Conversion Detail	TS 7
Existing Type III-AF to 27-22 Combo Pad Conversion Detail	TS 8
332 Typical Loop Detector Layout	TS 9
Type "P" Cabinet Loop Detector Layout	TS 10
IISNS Support Arm Mounting Detail	TS 11
IISNS Support Arm Typical Clamp Detail	TS 12
Traffic Signal Rock Wheel Trench (In Existing Streets)	TS 13
Encasement for PL 48 Boxes in City Sidewalks	TS 14
U-Turns	TS 15
Advanced Sign Spacing Requirements	TS 16
Roadway Signs	TS 17A
Mid Block Roadway Signs	TS 17B
Bike Lane Striping A	TS 18
Bike Lane Striping B	TS 19

Triple Left Striping	TS 20
Intersection Red Flash Approval	TS 21
Traffic Signal Inspection Check List	TS 22
Holiday Traffic Control Restrictions	TS 23
CCTV Mounting Assembly	TS 24
Controller Service/Grounding Diagram	TS 25
Type 1 Fiber Splice	TS 26
Type 2 Fiber Splice	TS 27
Type 3 Fiber Splice	TS 28
Type 4 Fiber Splice	TS 29
Standard Installation of Flashing Yellow Arrow Protected/Permissive Traffic Signal	TS 30
Loop detail: Connections and Saw Cut	TS 31

Sanitary Sewer

Sewer main Trench and Backfill	SS 1
Sewer Manhole Standard 48 inch	SS 2
Sewer Manhole Cast-In-Place Base	SS 2a
Standard Sewer manhole Frame and Cover	SS 3
Sewer Service	SS 4
Sewer Service Cleanout	SS 5
Grease Interceptor (TYP)	SS 6
Sand/Oil Interceptor	SS 7
Trench Dam	SS 8
Creek Crossing Support	SS 9
60" + and Sewer Trunk Main Manhole	SS 10
Camera Channel Manhole	SS 11
Inside Drop Connection	SS 12
Downstream Sampling Manhole for Interceptors	SS 13
PVC Liner Penetration Sealing Detail	SS 14

Drainage

Drop Inlet Type "C"	DR 1
Flow Capacity Type "C" Grate	DR 2
Drop Inlet Type "F"	DR 3
Standard Precast manhole (Drainage)	DR 4
Type A & B Saddle Manhole	DR 5
Standard Drainage Manhole Frame and Cover	DR 6
Standard 36" Manhole Frame and Cover	DR 7
Grate Type Manhole Cover	DR 8
Drop Inlet Frame & Grate For Type "C" Inlets	DR 9
Water Quality Outfall Swale Within Open Space	DR 10
Water Quality Outfall Swale	DR 11
Headwall	DR 12
Pipe Inlet Structure	DR 13
Velocity Check Dam	DR 14
Inlet Trash Rack 33" Pipe or Larger	DR 15

Trash Rack	DR 16
Lined Channel Section	DR 17
Typical Ramp & Transition	DR 18
Trench Depth & Minimum Cover Requirements	DR 19
“NO DUMPING” Public Notice	DR 20
Stream Gauging Station	DR 21
Street-Side Storm Water Bioretention Planter	DR 23

Grading

Class 1 Lot Grading	GR 1
Lot Grading Class II and III	GR 2
Wood Retaining Wall	GR 3
Exterior Perimeter Property Line Grading	GR 4
Interior Property Line Grading	GR 5

Bikeways

Class I Bikeway Grading	BK 1
Class I Bikeway Striping Details	BK 2
Bench Installation Detail Adjacent to Bike Trail	BK 3
Interpretive Sign Installation Adjacent to Bike Trail	BK 4
Bike Trail Stencil	BK 5

Recycled Water

Recycled Water 2” Blowoff Assembly (All Brass)	RW 1
Recycled Water inline 2” Blowoff Assembly (All Brass)	RW 2
Recycled Water Construction Water	RW 3
Recycled Water 3” & Larger Service	RW 4
1” and 2” Air Release Valve Assembly	RW 5
3/4” and 1” Service Line	RW 6
Recycled Water #88-V Eclipse Sampling Station for Warm Climates	RW 7
1 1/2” and 2” Recycled Water Service	RW 8
Recycled Water Use Signage	RW 9

Solid Waste

Standard Trash Enclosure	SW 1
Front Loading Compactor Enclosure	SW 2
Commercial Compactor Enclosure	SW 3
Residential/Commercial Compactor Enclosure	SW 4