

3100 SERIES – GENERAL DETAILS

- G-3110 STANDARD SYMBOLS TO BE USED ON CITY IMPROVEMENT PLANS
- G-3112 IMPROVEMENT PLAN COVER SHEET
- G-3120 CITY CENTER & SCENIC ARTERIAL STREET CROSS SECTION
- G-3122 ARTERIAL STREET CROSS SECTIONS
- G-3124-1 COLLECTOR STREET CROSS SECTIONS
- G-3124-2 MINOR COLLECTOR STREET WITH ON-STREET PARKING
- G-3124-3 COMMERCIAL / INDUSTRIAL COLLECTOR AND LOCAL STREET CROSS SECTIONS
- G-3124-4 SPECIAL USE MAJOR AND MINOR COLLECTOR STREET CROSS SECTIONS
- G-3126 LOCAL STREET CROSS SECTIONS
- G-3128 PRIVATE STREET CROSS SECTIONS
- G-3130 STANDARD UTILITY LOCATIONS – CITY CENTER & SCENIC ARTERIAL
- G-3132 STANDARD UTILITY LOCATIONS – ARTERIAL
- G-3134 STANDARD UTILITY LOCATIONS – COLLECTOR
- G-3136 STANDARD UTILITY LOCATIONS – LOCAL
- G-3142 FIRE LANE SIGN INSTALLATION
- G-3144 HANDICAP ACCESSIBLE PARKING SIGN
- G-3150 PARKING LOT DIMENSIONS
- G-3160 REFUSE CONTAINERS DESIGN CRITERIA FOR 2 YD. & 3 YD.
- G-3161 REFUSE CONTAINERS DESIGN CRITERIA FOR 20 YD. & 40 YD.
- G-3162-1 REFUSE ENCLOSURE
- G-3162-2 REFUSE ENCLOSURE W/ GREASE CONTAINMENT AREA
- G-3164-1 DOUBLE REFUSE ENCLOSURE
- G-3164-2 DOUBLE REFUSE ENCLOSURE W/ GREASE CONTAINMENT AREA
- G-3170 BARRICADING ON SUBDIVISION STREETS
- G-3171-1 MASONRY RETAINING WALL – SHEET 1 OF 2
- G-3171-2 MASONRY RETAINING WALL – SHEET 2 OF 2

3200 SERIES – STREET DETAILS

- G-3204 INTERSECTION & STREETS TYPICAL CROSS-SLOPES & CROWN RUN-OFF

3200 SERIES – STREET DETAILS (CONTINUED)

- G-3206 TYPICAL CUT, FILL, OR ADJACENT SLOPE ROADWAY CROSS-SECTION
- G-3208-1 TYPICAL 4-LANE AT 4-LANE TEE INTERSECTION WITH MEDIAN LAYOUT, SIGNING, & STRIPING
- G-3208-2 TYPICAL COLLECTOR AT COLLECTOR TEE INTERSECTION WITH CENTERLINE LAYOUT, SIGNING, & STRIPING
- G-3208-3 TYPICAL ARTERIAL & COLLECTOR RIGHT TURN & RAISED MEDIAN LEFT TURN LAYOUT, SIGNING, & STRIPING
- G-3208-4 4-LANE AT 4-LANE DUAL LEFT INTERIM T-INTERSECTION LAYOUT, SIGNING, & STRIPING
- G-3208-5 TYPICAL STREET INTERSECTION SIGNAGE
- G-3208-6 TYPICAL BIKEWAY SIGNAGE AND PAVEMENT MARKINGS
- G-3209-1 SAMPLE STREET NAME SIGN
- G-3209-2 SAMPLE ADVANCED STREET NAME SIGN
- G-3209-3 STREET SIGN POST
- G-3209-4 (12”) STREET SIGN SEPARATOR BRACKET
- G-3209-5 (12”) STREET SIGN POST CAP
- G-3210-1 TYPICAL PULLBOX AND CONDUIT LAYOUT
- G-3210-2 DRY UTILITY CLEAR ZONE LOCATION
- G-3211 TYPICAL MEDIAN LEFT TURN BAY AND NOSES
- G-3212 TYPICAL HYDRANT MARKER LOCATION
- G-3214 PAVEMENT WIDTH TRANSITION LAYOUT, SIGNING, & STRIPING
- G-3215 TYPICAL COLLECTOR TO ARTERIAL INTERSECTION
- G-3216 MINIMUM PAVEMENT SECTION THICKNESS
- G-3218 3’ ROLL CURB
- G-3219 ARROW AND "ONLY" PAVEMENT MARKING FOR LEFT TURN LANES
- G-3226 8’ VALLEY GUTTER
- G-3228 LOCAL STREET SIGHT VISIBILITY
- G-3230 TYPICAL DRIVEWAY & RIGHT TURN BAY STANDARD INTERSECTION SIGHT VISIBILITY TRIANGLES
- G-3232 TYPICAL DRIVEWAY DETAILS
- G-3242-1 TYPICAL BUS BAY DETAIL
- G-3242-2 TYPICAL BUS SHELTER ACCESSORY PAD
- G-3244-1 FIRE DEPARTMENT PERMANENT ACCESS ROADWAY TYPICAL CROSS-SECTION
- G-3244-2 FIRE DEPARTMENT ALTERNATIVE ACCESS ROADWAY TYPICAL CROSS-SECTION

3200 SERIES – STREET DETAILS (CONTINUED)

- G-3244-3 FIRE DEPARTMENT TEMPORARY ACCESS ROADWAY TYPICAL CROSS-SECTION
- G-3246-1 FIRE DEPARTMENT ACCESS ROADWAYS & CUL-DE-SAC / MODIFIED CUL-DE-SAC TURNAROUNDS
- G-3246-2 FIRE DEPARTMENT ACCESS HAMMERHEAD / MODIFIED HAMMERHEAD TURNAROUNDS
- G-3250-1 ROADWAY POLE AND LUMINAIRE SPECIFICATIONS
- G-3250-10 STANDARD POLE CABLE ATTACHMENTS
- G-3250-11 STANDARD POLE GROUNDING AND WIRING DETAIL
- G-3250-12 STANDARD APS J-BOX DETAIL
- G-3250-2 STANDARD DARK BRONZE SQUARE POLES (1 OF 2)
- G-3250-3 STANDARD DARK BRONZE SQUARE POLES (2 OF 2)
- G-3250-4 STANDARD GRAY ROUND ROADWAY POLES (1 OF 2)
- G-3250-5 STANDARD GRAY ROUND ROADWAY POLES (2 OF 2)
- G-3250-6 STANDARD DUAL MAST ARM ROUND ROADWAY POLES
- G-3250-7 STANDARD DARK BRONZE SQUARE POLES
- G-3250-8 STANDARD GRAY ROUND ROADWAY POLES
- G-3250-9 SPECIAL GRAY ROUND ROADWAY POLES
- G-3255-1 STREET LIGHTING – ARTERIAL STREET STAGGERED WITHOUT MEDIAN
- G-3255-2 STREET LIGHTING – ARTERIAL INTERSECTIONS
- G-3255-3 STREET LIGHTING – COLLECTOR STREET SPACING
- G-3255-4 STREET LIGHTING – LOCAL / LOCAL ROUNDABOUT
- G-3255-5 STREET LIGHTING – ELBOW INTERSECTIONS
- G-3263 STREET LIGHT PULL BOX & CONNECTION DETAILS
- G-3291-1 STREAMLINE STEEL POLE STREET LIGHT DETAIL
- G-3291-2 STREAMLINE STEEL POLE STREET LIGHT DETAIL
- G-3292-1 ARCHITECTURAL STREET LIGHT DETAIL
- G-3292-2 ARCHITECTURAL STREET LIGHT DETAIL
- G-3293 INTERCONNECT CONDUIT TRENCHING DETAIL
- G-3294-1 INTERCONNECT CONDUIT SPLICE BOX DETAIL
- G-3294-2 INTERCONNECT CONDUIT SPLICE BOX DETAIL – SHEET 2
- G-3294-3 INTERCONNECT CONDUIT SPLICE BOX DETAILS – SHEET 3
- G-3295 POLYMER NUMBER 7 PULL BOX DETAIL
- G-3296-1 MODULAR POLE 'F' – 20' MAST ARM
- G-3296-10 MODULAR POLE 'J' – 40' MAST ARM
- G-3296-11 MODULAR POLE 'Q' – 45' MAST ARM
- G-3296-12 MODULAR POLE 'J' – 45' MAST ARM
- G-3296-13 MODULAR POLE 'Q' – 50' MAST ARM

3200 SERIES – STREET DETAILS (CONTINUED)

- G-3296-14 MODULAR POLE 'J' – 50' MAST ARM
 - G-3296-15 MODULAR POLE 'A-1'
 - G-3296-16 MODULAR POLE 'A-2'
 - G-3296-17 MODULAR POLE MAST ARM CONNECTION
 - G-3296-18 MODULAR SIGNAL 'ADD-ON' STRUCTURES
 - G-3296-19 MODULAR SIGNAL MAST ARM SIGN MOUNTING DETAILS
 - G-3296-2 MODULAR POLE 'E' – 20' MAST ARM
 - G-3296-20 TRAFFIC SIGNAL FOUNDATION DETAIL TYPE 'A' FOUNDATION (SHEET 1 OF 2)
 - G-3296-21 TRAFFIC SIGNAL FOUNDATION DETAIL TYPE 'A' FOUNDATION (SHEET 2 OF 2)
 - G-3296-22 TRAFFIC SIGNAL FOUNDATION DETAIL FOR MODULAR 20' – 40' MAST ARM STRUCTURES (SHEET 1 OF 2)
 - G-3296-23 TRAFFIC SIGNAL FOUNDATION DETAIL FOR MODULAR 20' – 40' MAST ARM STRUCTURES (SHEET 2 OF 2)
 - G-3296-24 TRAFFIC SIGNAL FOUNDATION DETAIL FOR MODULAR 45' MAST ARM STRUCTURES (SHEET 1 OF 2)
 - G-3296-25 TRAFFIC SIGNAL FOUNDATION DETAIL FOR MODULAR 45' MAST ARM STRUCTURES (SHEET 2 OF 2)
 - G-3296-26 TRAFFIC SIGNAL FOUNDATION DETAIL FOR MODULAR 50' MAST ARM STRUCTURES (SHEET 1 OF 2)
 - G-3296-27 TRAFFIC SIGNAL FOUNDATION DETAIL FOR MODULAR 50' MAST ARM STRUCTURES (SHEET 2 OF 2)
 - G-3296-28 PEDESTRIAN POST FOR MODULAR STRUCTURES
 - G-3296-29 MODULAR TRAFFIC SIGNAL WIRING DETAIL
 - G-3296-3 MODULAR POLE 'Q' – 25' MAST ARM
 - G-3296-4 MODULAR POLE 'J' – 25' MAST ARM
 - G-3296-5 MODULAR POLE 'Q' – 30' MAST ARM
 - G-3296-6 MODULAR POLE 'J' – 30' MAST ARM
 - G-3296-7 MODULAR POLE 'Q' – 35' MAST ARM
 - G-3296-8 MODULAR POLE 'J' – 35' MAST ARM
 - G-3296-9 MODULAR POLE 'Q' – 40' MAST ARM
 - G-3297-1 TRAFFIC SIGNAL STYLE
 - G-3297-2 TRAFFIC SIGNAL STYLE
- 3300 SERIES – WATER DETAILS
- G-3300 DRY UTILITY TO WET UTILITY MINIMUM SEPARATION REQUIREMENTS

3300 SERIES – WATER DETAILS (CONTINUED)

- G-3301 VERTICAL REALIGNMENT OF WATER & RECLAIMED WATER MAINS
- G-3305 ELECTRONIC BALL MARKER PLACEMENT
- G-3307 BUTTERFLY VALVE OPERATOR MANHOLE
- G-3310 WATER SERVICE CONNECTIONS
- G-3313-1 4" & 6" WATER METER VAULTS
- G-3313-2 8" WATER METER VAULT
- G-3313-3 4", 6", & 8" WATER METERS
- G-3316 CHLORINE INJECTIONS ASSEMBLY FOR UNDERGROUND WATERLINES
- G-3321 DEBRIS CAP INSTALLATION
- G-3323 PRESSURE REDUCING VALVE
- G-3324-1 PRESSURE REDUCING VALVE VAULT
- G-3324-2 PROPOSED PRV VAULT LID DETAIL
- G-3325 RECLAIMED WATER VALVE BOX AND LID
- G-3328 2" AIR/VACUUM RELEASE VALVE
- G-3330 FIRE HYDRANT INSTALLATION
- G-3332 HYDRANT SAFETY POSTS
- G-3334 TEMPORARY WATER SUPPLY HYDRANT METER ASSEMBLY
- G-3336 FIRE HYDRANT BYPASS ASSEMBLY (FOR LINES > 16")
- G-3338 FIRE DEPARTMENT CONNECTION
- G-3350 REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY INSTALLATION – 3" AND LARGER
- G-3351 REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY INSTALLATION – 2.5" AND UNDER
- G-3352 DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY INSTALLATION – 3" TO 10"
- G-3353 DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY INSTALLATION – 2.5" AND UNDER
- G-3356 TEMPORARY JUMPER CONNECTION
- G-3357 METAL ENCLOSURE FOR ABOVE GROUND UTILITIES
- G-3358 SAFETY POST LOCATION FOR BACKFLOW PREVENTION ASSEMBLIES
- G-3360 FILL PIPE DETAILS FOR PORTABLE TANKS WITH AIR GAP SEPARATION
- G-3361 BACKFLOW PREVENTION METHOD FOR PORTABLE TANKS WITH NO AIR GAP SEPARATION
- G-3362 PROPOSED TANK LADDER AND HATCH POSITION DETAIL
- G-3363 PROPOSED TANK HATCH DETAIL
- G-3364 TYPICAL WELL SITE

3300 SERIES – WATER DETAILS (CONTINUED)

- G-3365 TYPICAL WELL SITE WITH ONSITE TREATMENT
- G-3366 WALL ELEVATION FOR WELL SITE OR PUMP STATION
- G-3367-1 TYPICAL WELL CASING
- G-3367-2 TURBINE PUMP INSTALLATION DETAIL
- G-3367-3 SUBMERSIBLE PUMP INSTALLATION DETAIL
- G-3368 120" OD AIR CHAMBER
- G-3369 96" OD AIR CHAMBER
- G-3370 WATER QUALITY SAMPLING STATION
- G-3390-1 16' SLIDING GATE & HINGED DOOR
- G-3390-2 16' SLIDING GATE

3400 SERIES – SEWER DETAILS

- G-3429 ELECTRONIC MARKER BALL PLACEMENT – SEWER
- G-3430 TYPICAL SEWER SERVICE FOR SEWER MAINS > 10' – 15' DEEP
- G-3430-2 DEEP SEWER SERVICE CONNECTION – 15' DEEP OR GREATER
- G-3440 FORCE MAIN CLEANOUTS
- G-3441 SEWAGE AIR RELEASE VALVE
- G-3442 FORCE MAIN – MANHOLE DISCHARGE
- G-3450-1 MONITORING/SAMPLING VAULT
- G-3450-2 MONITORING/SAMPLING VAULT

3500 SERIES – DRAINAGE DETAILS

- G-3510 STORM DRAIN INLET MARKER
- G-3511 STORM DRAIN INLET MARKER ON HEADWALL
- G-3520 CUT-OFF WALL
- G-3531-2 BARRIER SPECIFICATIONS SCHEDULE
- G-3531-1 STORM SEWER OUTFALL ACCESS BARRIER
- G-3535-4 STORM DRAIN INLET MARKER ON CATCH BASIN SCUPPER
- G-3535-3 CATCH BASING TYPE "M" TOP MODIFICATION IN LANDSCAPE PARKWAY
- G-3535-2 CATCH BASIN TYPE 'M' – NOTES & DETAILS
- G-3535-1 CATCH BASIN TYPE 'M'
- G-3540-1 HDPE STORM DRAIN PIPE DETAILS (PIPE DIAMETER UP TO 48 INCHES)
- G-3540-2 POLYPROPYLENE TRENCH INSTALLATION
- G-3540-3 POLYPROPYLENE TRENCH INSTALLATION FOR NON-TRAFFIC APPLICATION

3500 SERIES – DRAINAGE DETAILS (CONTINUED)

- G-3560-2 DRYWELL PRE-TREATMENT CHAMBER
- G-3560-1 STANDARD DRYWELL
- G-3570 MINIMUM FINISH FLOOR TO DRAINAGE FACILITY ELEVATION RELATIONSHIPS
- G-3580 SINGLE RESIDENTIAL LOT SWPPP DETAIL

3600 SERIES – LANDSCAPE & PARKS DETAILS

- G-3604 LANDSCAPE DETAILS
- G-3610-1 TREE PLANTING AND STAKING
- G-3610-10 CACTI/ACCENT PLANTING
- G-3610-11 VINE PLANTING
- G-3610-12 OCOTILLO PLANTING
- G-3610-13 SAGUARO PLANTING
- G-3610-14 BOULDER
- G-3610-15 DECOMPOSED GRANITE
- G-3610-16 STABILIZED DECOMPOSED GRANITE
- G-3610-17 CONCRETE HEADER
- G-3610-2 SINGLE-TRUNK TREE PLANTING ON SLOPE
- G-3610-3 TREE PLANTING IN TURF
- G-3610-4 DATE PALM TREE PLANTING
- G-3610-5 FAN PALM TREE PLANTING
- G-3610-6 ROOT BARRIER
- G-3610-7 SHRUB/GROUNDWATER PLANTING
- G-3610-8 SHRUB/GROUNDCOVER PLANTING ON SLOPE
- G-3610-9 TYPICAL PLANT SPACING AND CLEAR ZONES FOR MEDIAN LANDSCAPING
- G-3618 IRRIGATION WIRE SLEEVING CHART
- G-3620-1 REDUCED PRESSURE ASSEMBLY
- G-3620-10 QUICK COUPLER
- G-3620-11 PVC SLEEVE
- G-3620-12 TYPICAL TRENCHING
- G-3620-13 THRUST BLOCK
- G-3620-14 FLUSH CAP ASSEMBLY
- G-3620-15 EMMITTER MANIFOLD
- G-3620-16 EMISSION POINT – SHRUB AND GROUNDCOVER
- G-3620-17 EMISSION POINT – TREE
- G-3620-18 POP UP SPRAY HEAD WITH SWING JOINT
- G-3620-2 CALSENSE CONTROLLER (MODEL CS2000/PEDESTAL)
- G-3620-3 CALSENSE CONTROLLER (MODEL CS3000/PEDESTAL)

3600 SERIES – LANDSCAPE & PARK DETAILS (CONTINUED)

- G-3620-4 SOLAR CONTROLLER
- G-3620-5 ELECTRIC VALVE – DRIP WITH BALL VALVE
- G-3620-6 ELECTRIC VALVE – TURF WITH BALL VALVE
- G-3620-7 MASTER VALVE AND FLOW SENSOR
- G-3620-8 ISOLATION VALVE – 2.0” OR SMALLER
- G-3620-9 ISOLATION VALVE – 2.5” OR LARGER