

STREETS



City of North Salt Lake Streets Standards Manual

September 2025





City of North Salt Lake
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City of North Salt Lake

Streets Department Specification Manual

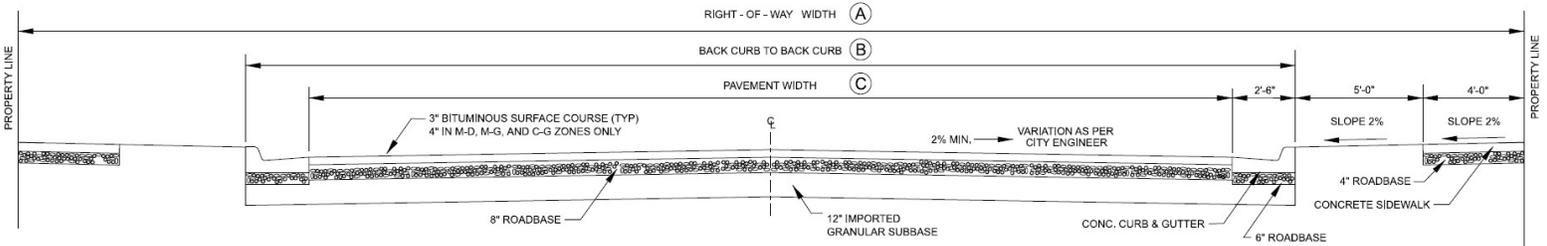
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Design Requirements

Standard Roadway Section

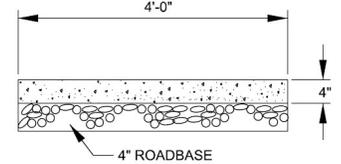
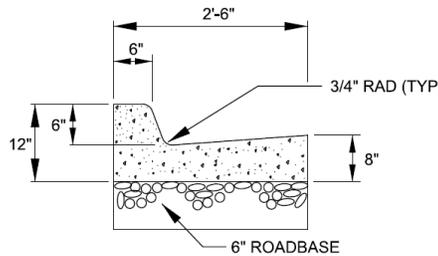
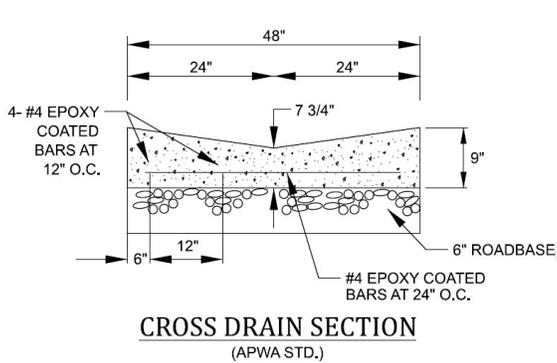


STREET DESIGNATION	(A)	(B)	(C)
MINOR	50'	32'	27'
MINOR COLLECTOR	60'	42'	37'
MAJOR COLLECTOR	66'	48'	43'
MINOR ARTERIAL	80'	62'	57'

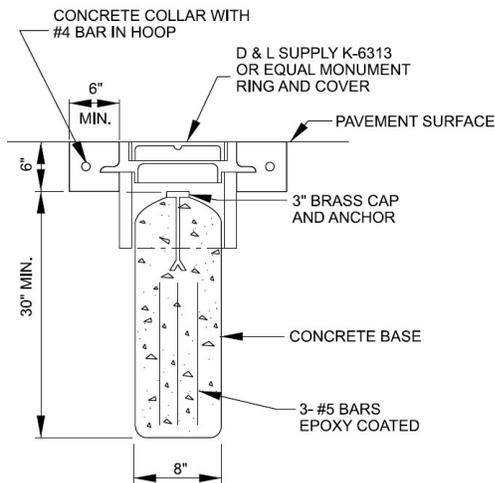
STANDARD ROADWAY SECTION
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NOTE: THIS SECTION IS THE MINIMUM STRUCTURAL SECTION ALLOWED IN THE CITY UNLESS FIELD TESTS ARE MADE AND ANOTHER SECTION IS RECOMMENDED BY A QUALIFIED SOILS ENGINEER AND ACCEPTED BY THE CITY ENGINEER. SECTION MAY BE INCREASED DUE TO SOIL CONDITIONS OR TRAFFIC LOADS.

Concrete Details



Survey Monument Section

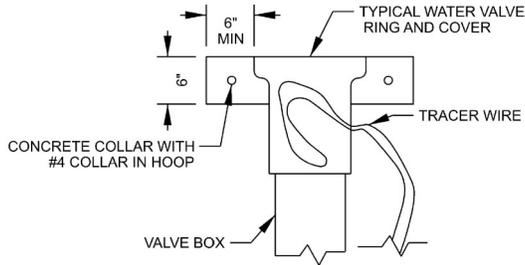


CONCRETE NOTES:

- SIDEWALK CONCRETE AND ROADBASE TO EACH BE 6" THICK WHERE ADJACENT TO DRIVE APPROACH
- MINIMUM SLOPE OF CURB & GUTTER, WATERWAYS, AND STREETS IS 0.3%
- REBAR TO BE COVERED BY CONCRETE A MINIMUM OF 3"
- EXPANSION JOINTS PLACEMENT:
 - EVERY 50' FOR SIDEWALK
 - EVERY 100' FOR FORMED CURB & GUTTER
 - AS PER ENGINEER FOR SLIPPED CURB & GUTTER

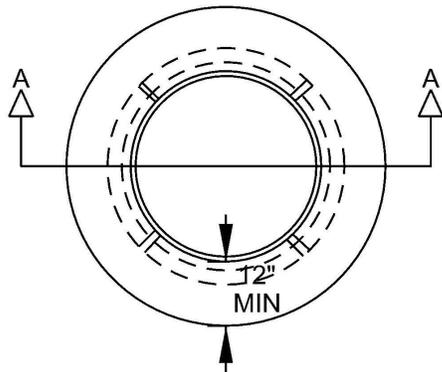
SURVEY MONUMENT SECTION
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Water Valve Collar Section



WATER VALVE COLLAR SECTION
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Manhole Collar Section



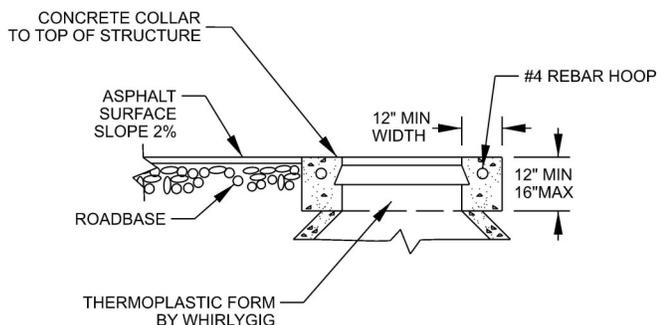
MANHOLE PLAN VIEW
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NOTE:

CONCRETE COLLARS ARE REQUIRED ON ALL MANHOLES IN STREETS, ROADWAYS & OTHER PAVED AREAS. CONSTRUCT CAST-IN-PLACE RISER/COLLAR WITH THERMOPLASTIC FORM BY WHIRLYGIG.

THE TOP OF THE CONE (WHICH MAY BE ADJUSTED AS NECESSARY WITH 1, 6-INCH CONCRETE GRADE RING) SHOULD BE NO LESS THAN 12 INCHES BELOW FINISHED GRADE AND NO MORE THAN 16 INCHES BELOW FINISHED GRADE. MULTIPLE GRADE RINGS ARE NOT PERMITTED.

EXCEPTIONS TO THE DEPTH OF COVER FOR STORM DRAIN MANHOLES DUE TO EXISTING CONFLICTING UTILITIES MAY BE APPROVED BY THE CITY ENGINEER OR PUBLIC WORKS INSPECTOR.



MANHOLE COLLAR SECTION A-A
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SOUTH DAVIS SEWER DISTRICT	
CONCRETE COLLAR DETAIL	

NOTE:

CURRENT SOUTH DAVIS SEWER DISTRICT DETAIL SHOULD BE CONSULTED FOR ALL SEWER MANHOLES.



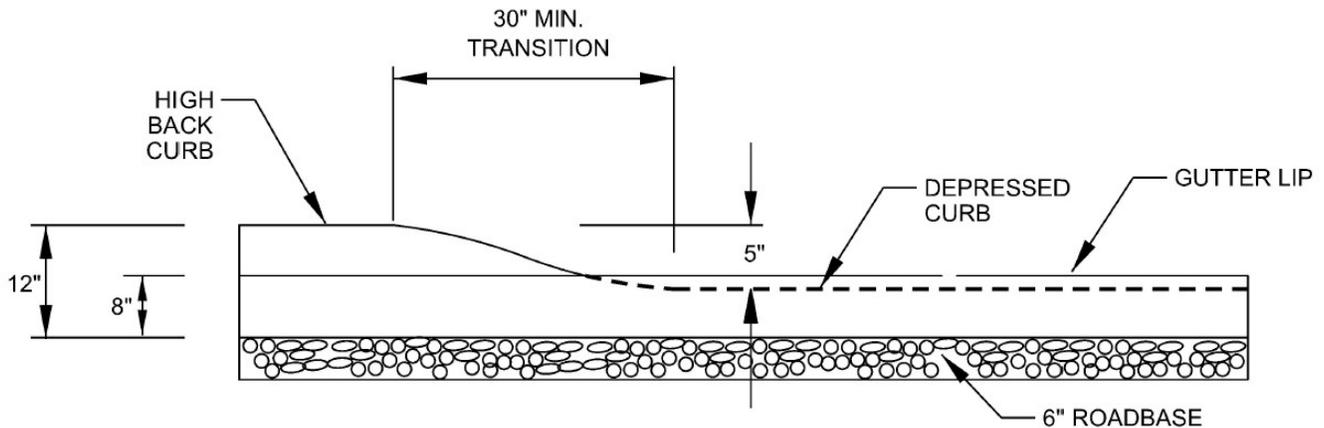
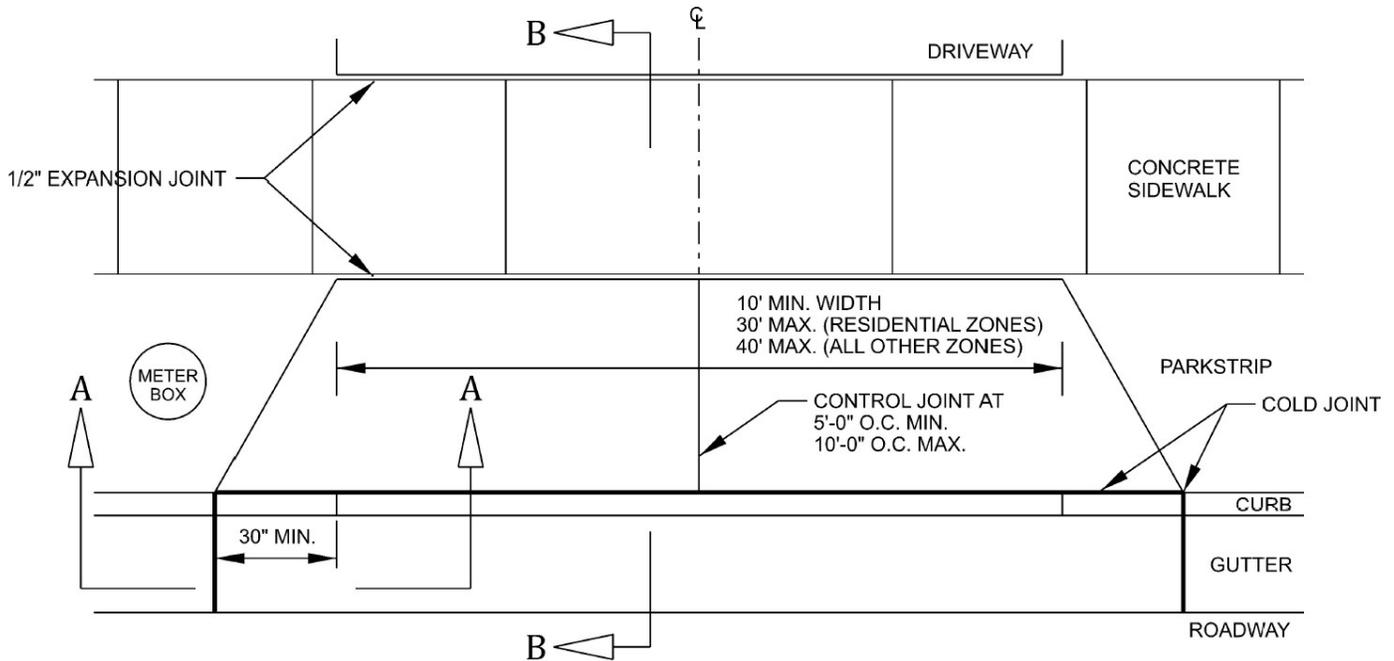
Design Requirements

Drive Approaches

FLARE DRIVE APPROACH PLAN

STANDARD LAYOUT

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SECTION A-A

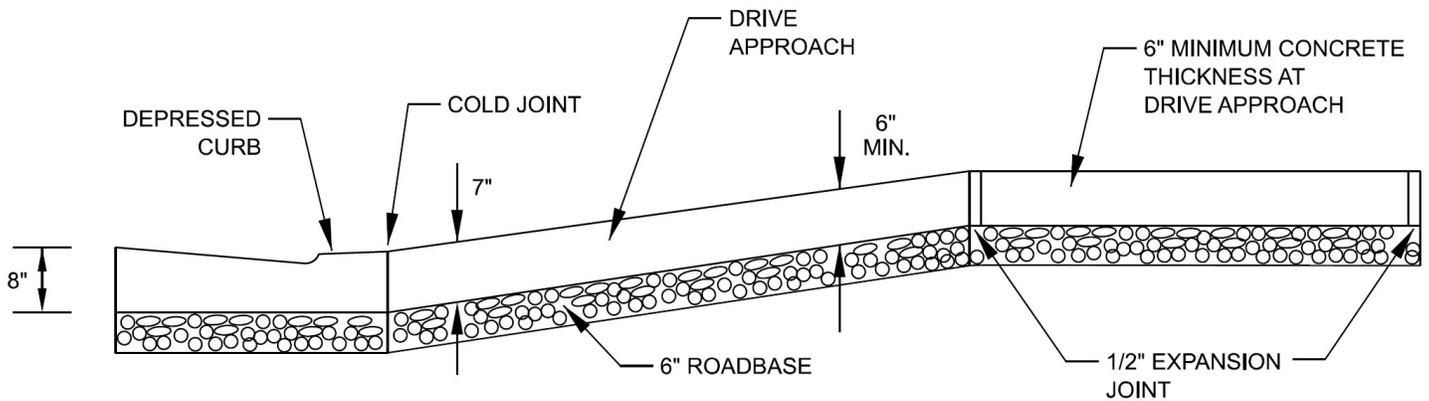
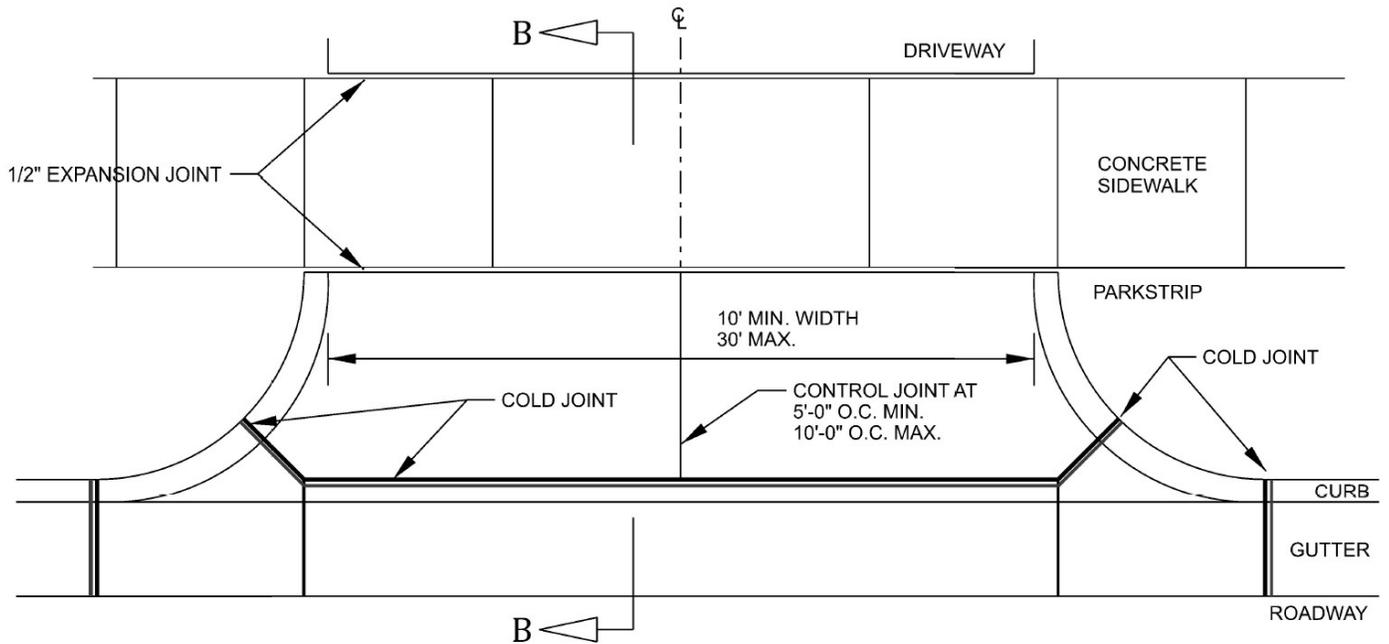
DRIVE APPROACH NOTES:

1. MINIMUM CONCRETE THICKNESS IS 6" IN APPROACH AND ADJACENT SIDEWALK
2. MINIMUM ROADBASE THICKNESS IS 6" IN APPROACH AND ADJACENT SIDEWALK
3. MINIMUM CONCRETE THICKNESS IS 8" IN ALL COMMERCIAL AND INDUSTRIAL ZONES
4. INSTALL EPOXY-COATED #4 BARS AT 12" O.C. (BOTH WAYS) IN ALL APPROACHES IN COMMERCIAL AND INDUSTRIAL ZONES
5. MAXIMUM APPROACH WIDTH CANNOT BE INCREASED EXCEPT AS ESTABLISHED BY CONDITIONAL USE PERMIT
6. WATER METER BOXES SHALL NOT BE PLACED IN NEW CONCRETE APPROACH AND SHALL NOT REMAIN IN CONCRETE IF APPROACH IS REPLACED. RELOCATIONS AT PROPERTY OWNER'S EXPENSE

OPEN DRIVE APPROACH PLAN

ALTERNATE LAYOUT FOR USE IN
COMMERCIAL AND INDUSTRIAL
ZONES WITH PRIOR APPROVAL

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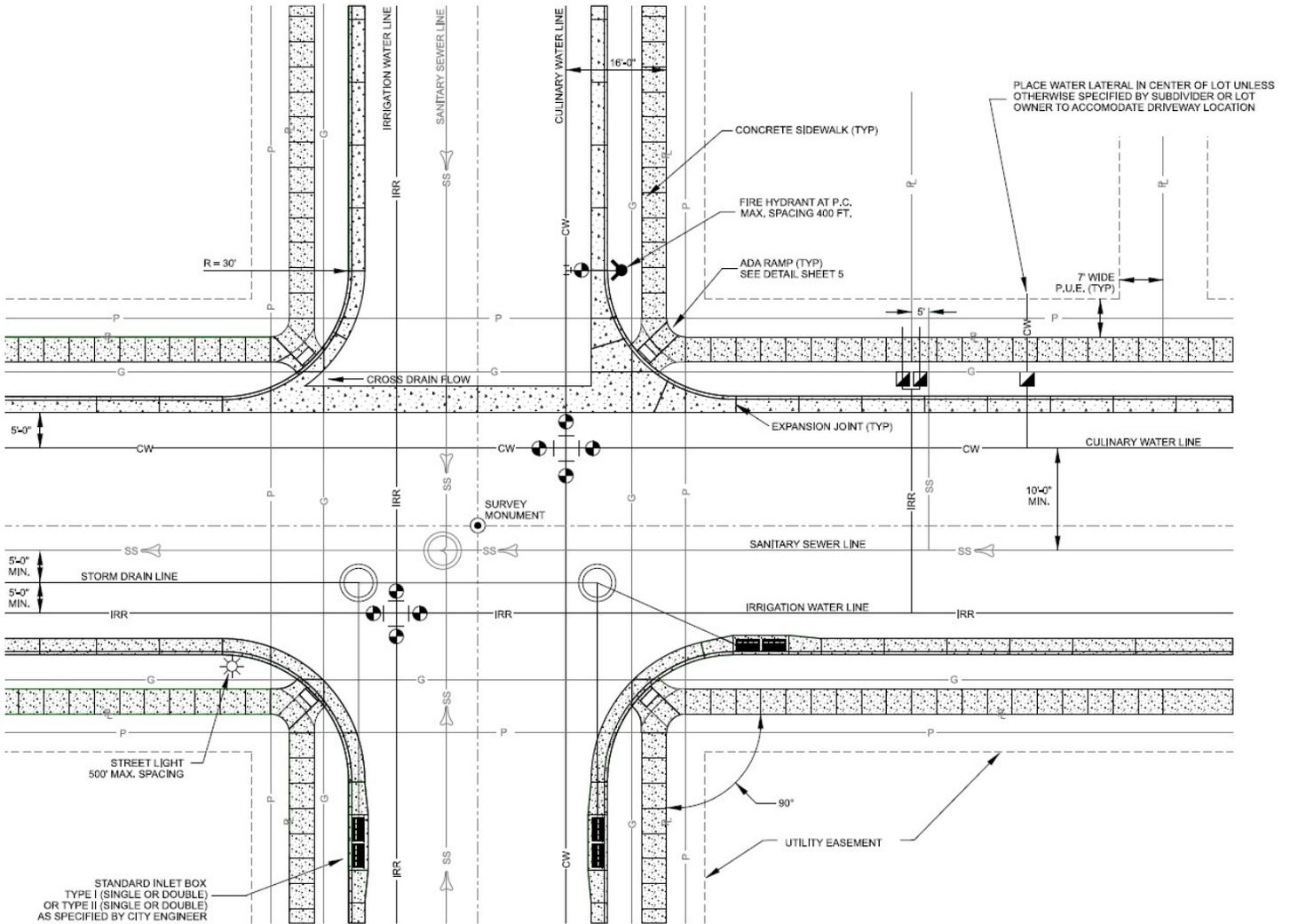


SECTION B-B



Design Requirements

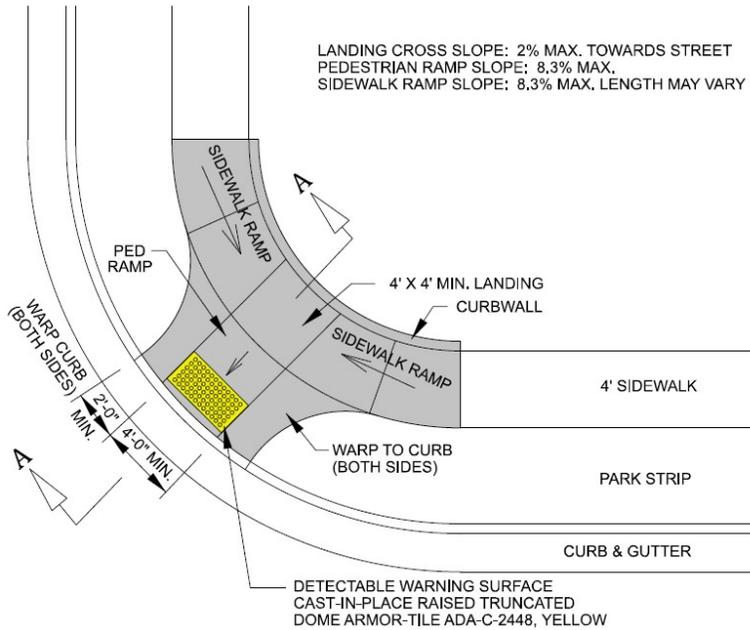
Typical Residential Intersection with Utility Locations



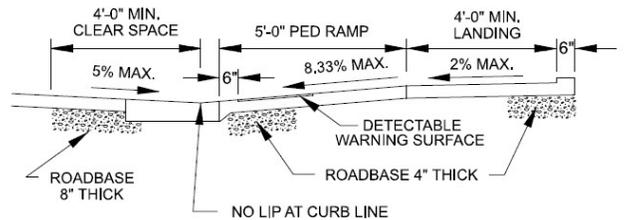


Design Requirements

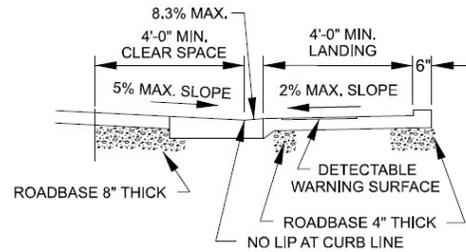
Typical ADA Ramps



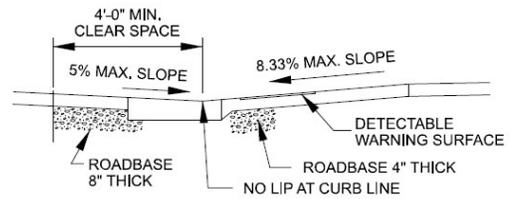
TYPE 1 PEDESTRIAN RAMP



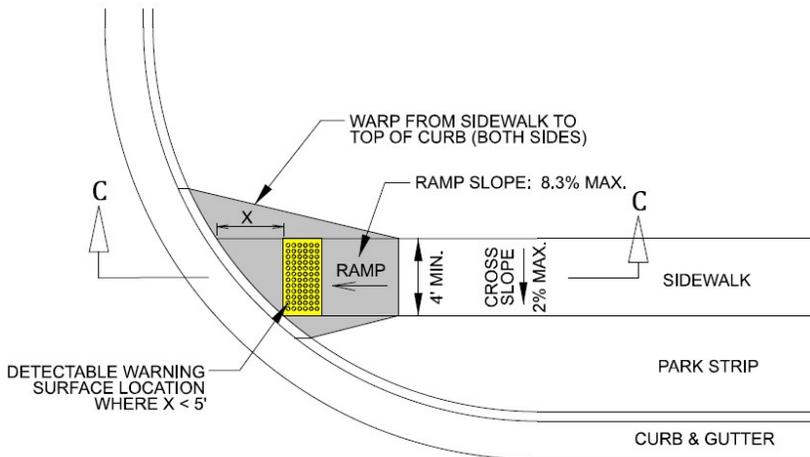
SECTION A-A



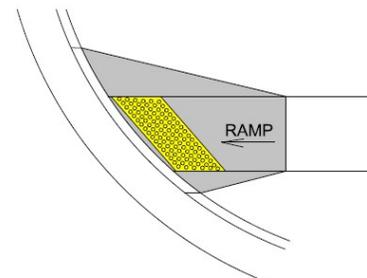
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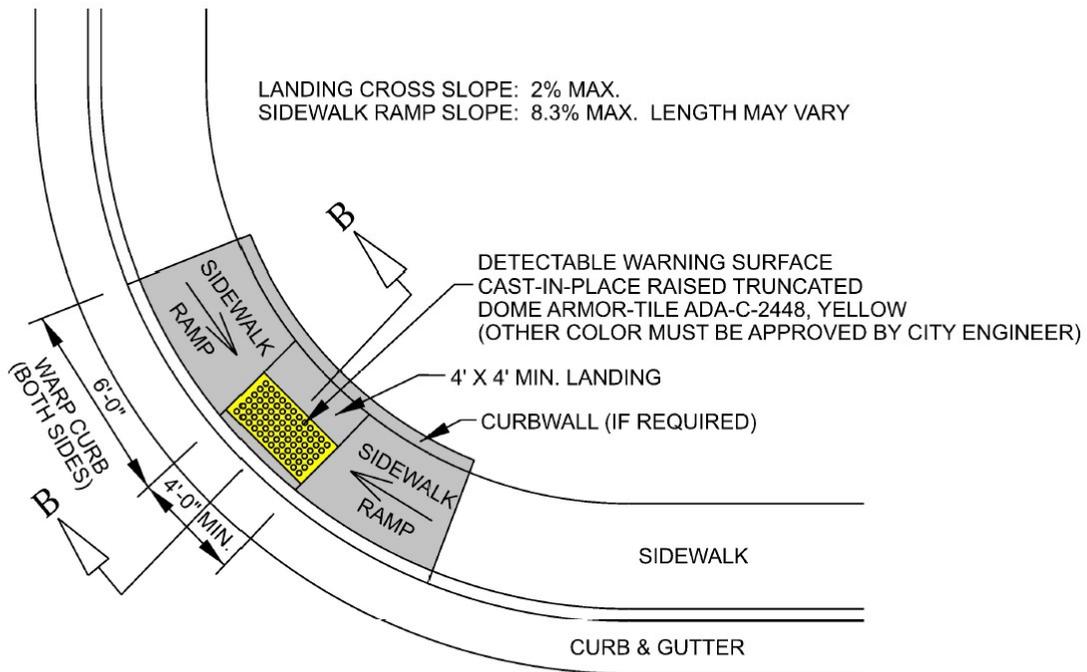
SECTION C-C



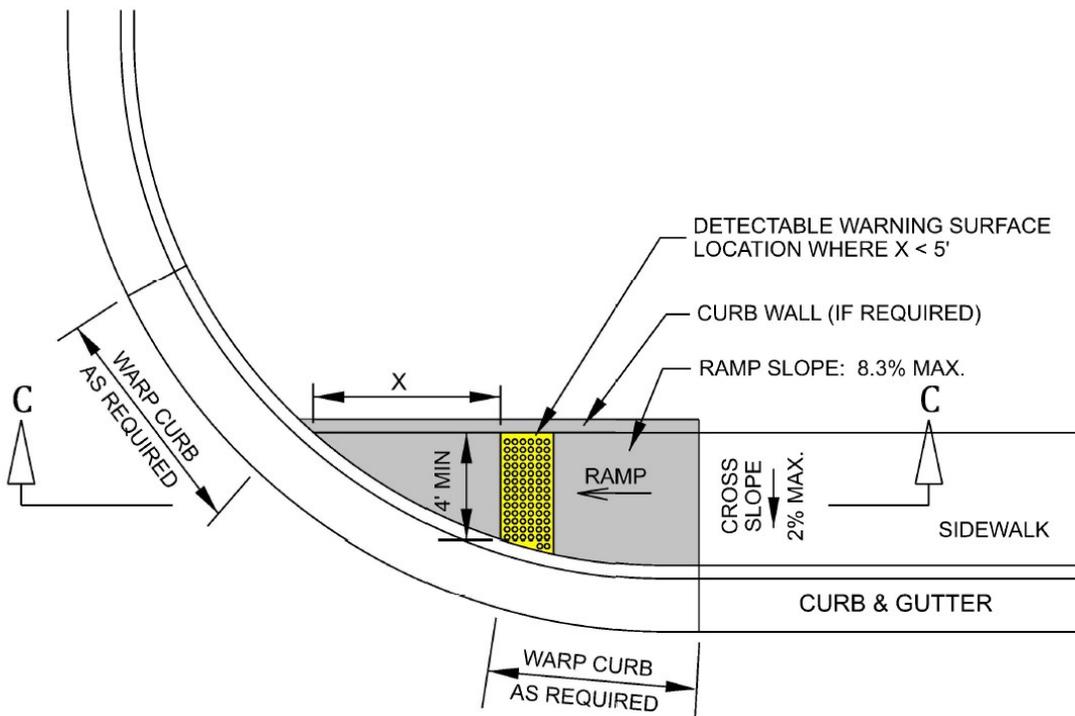
TYPE 2 PEDESTRIAN RAMP



REQUIRED DETECTABLE WARNING SURFACE LOCATION WHERE X > 5' FOR TYPE 2 & 2A



TYPE 1A PEDESTRIAN RAMP

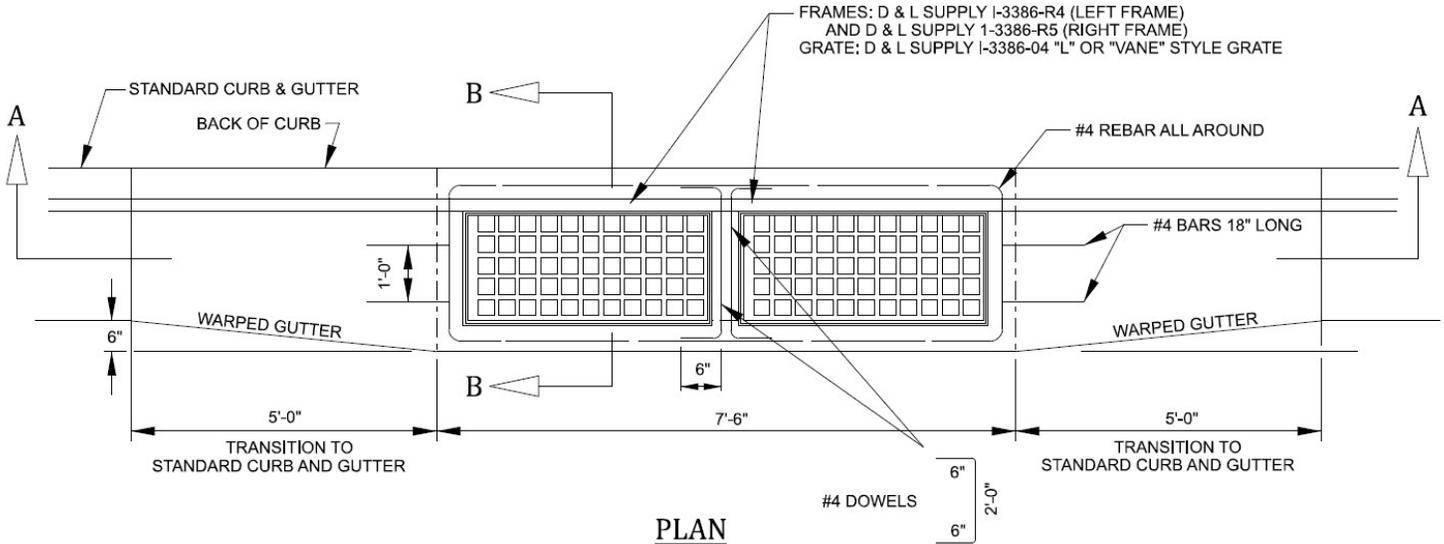


TYPE 2A PEDESTRIAN RAMP



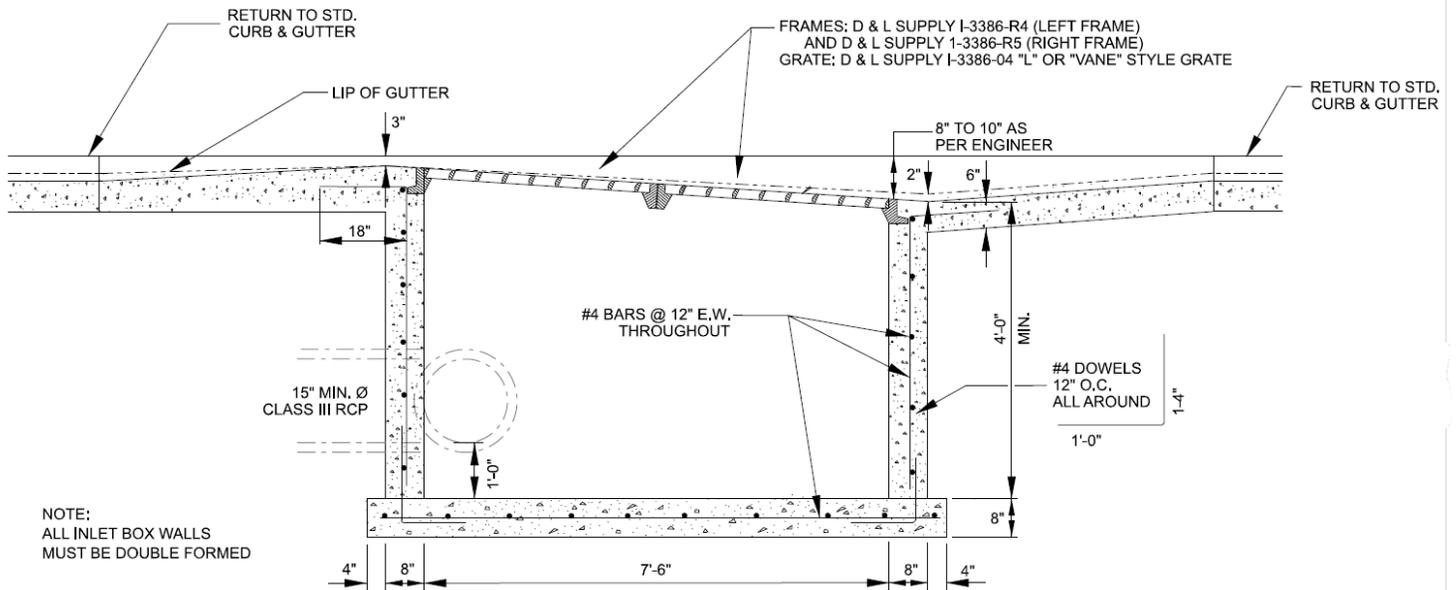
Design Requirements

Cast-in-place Storm Drain Inlet Boxes in Sloped Street



INLET BOX - TYPE I DOUBLE

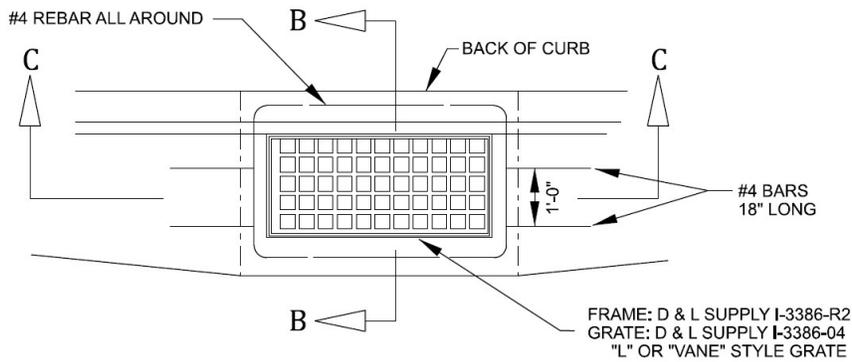
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SECTION A-A

NOTE:

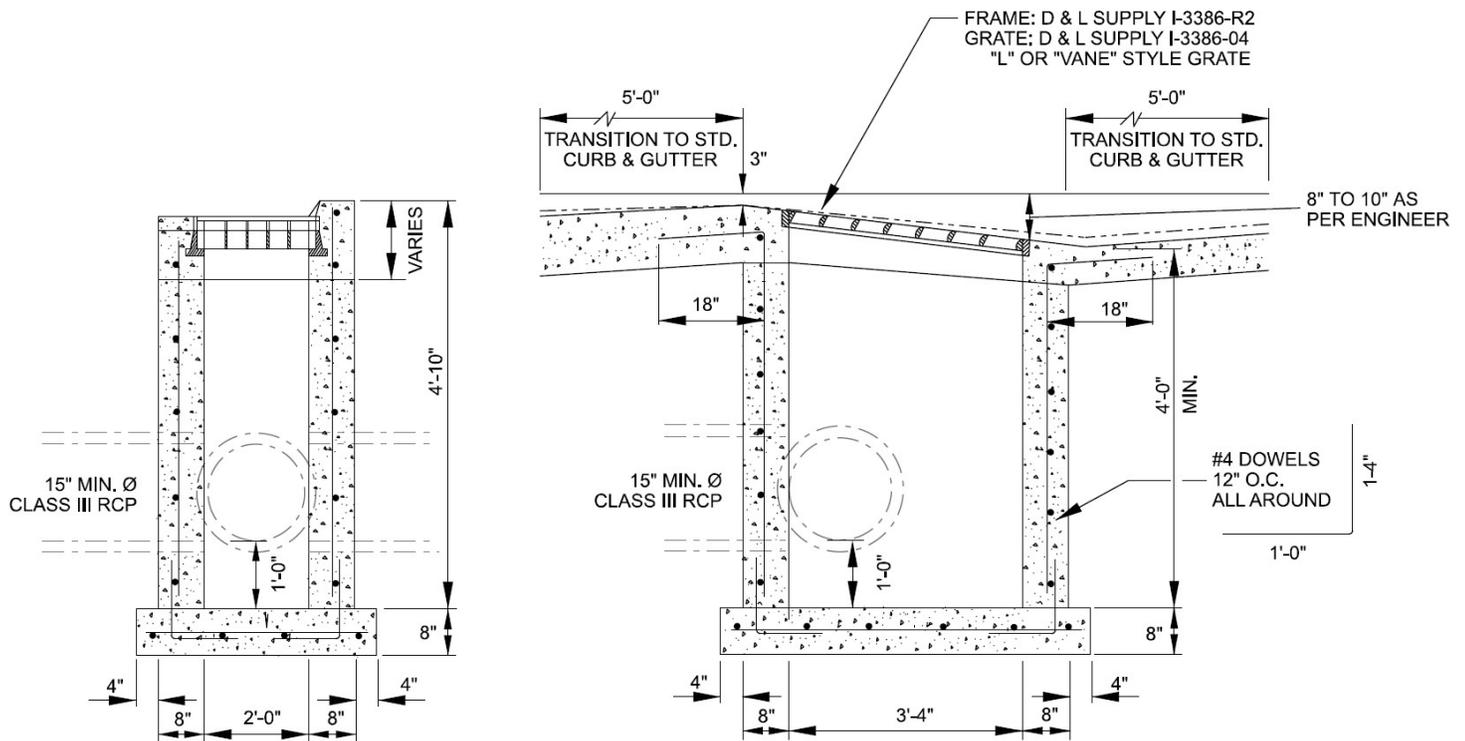
STANDARD PRECAST COMBINATION AND CLEANOUT BOXES ARE ACCEPTED, DETAILS PROVIDED ARE FOR REBAR REQUIREMENTS FOR CAST-IN-PLACE BOXES. ENSURE PROPOSED PRECAST BOXES WITH KNOCKOUTS ARE THE CORRECT SIZE TO ACCOMMODATE STORM DRAIN PIPE DIMENSIONS.



PLAN

INLET BOX - TYPE I SINGLE

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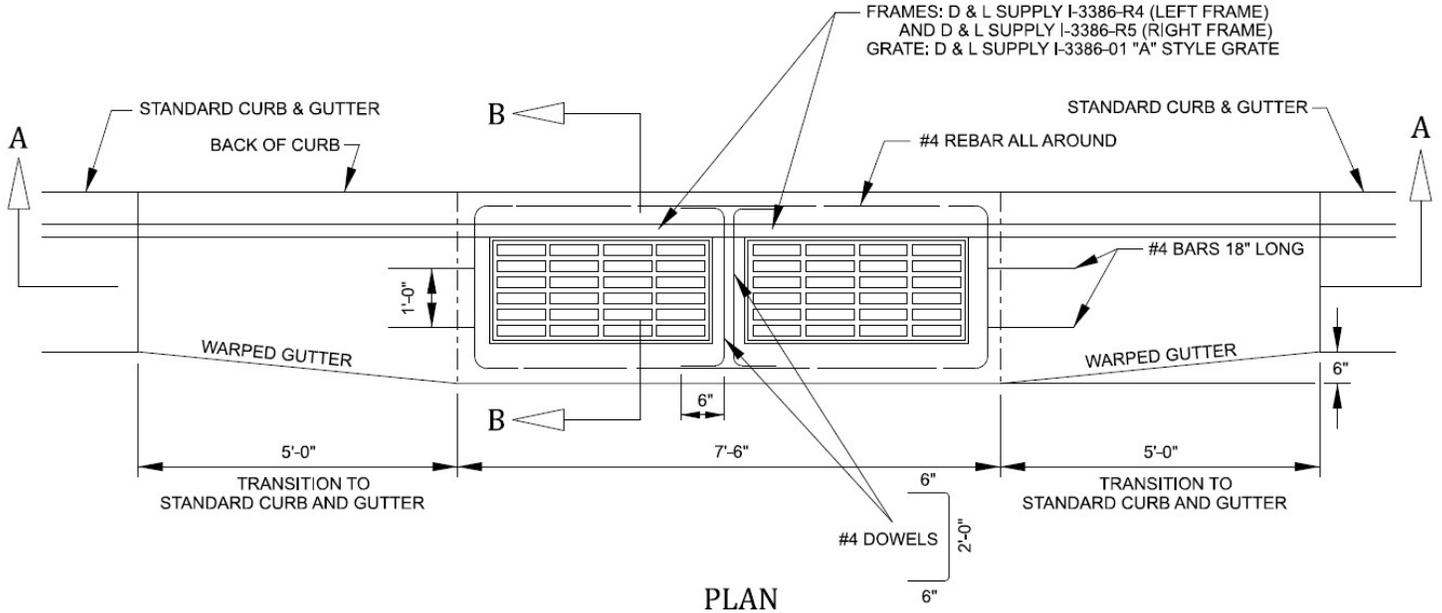
SECTION B-B

SECTION C-C



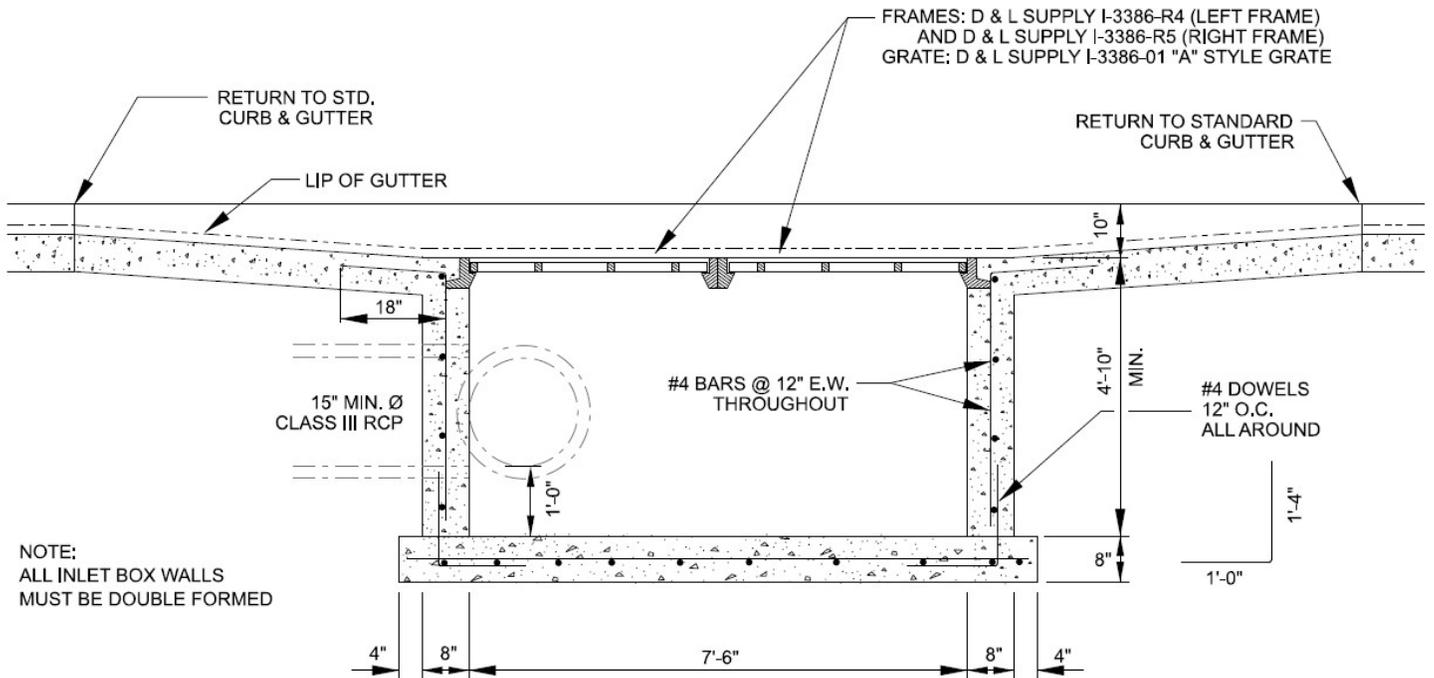
Design Requirements

Cast-in-place Storm Drain Inlet Boxes in Low Points



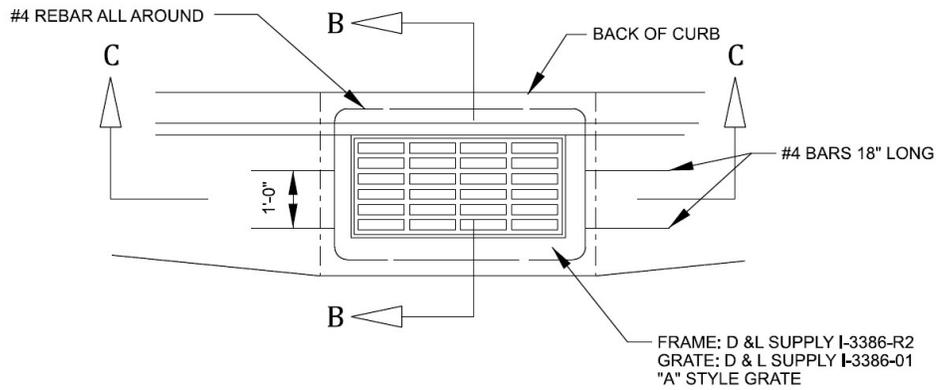
INLET BOX - TYPE II DOUBLE

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NOTE:

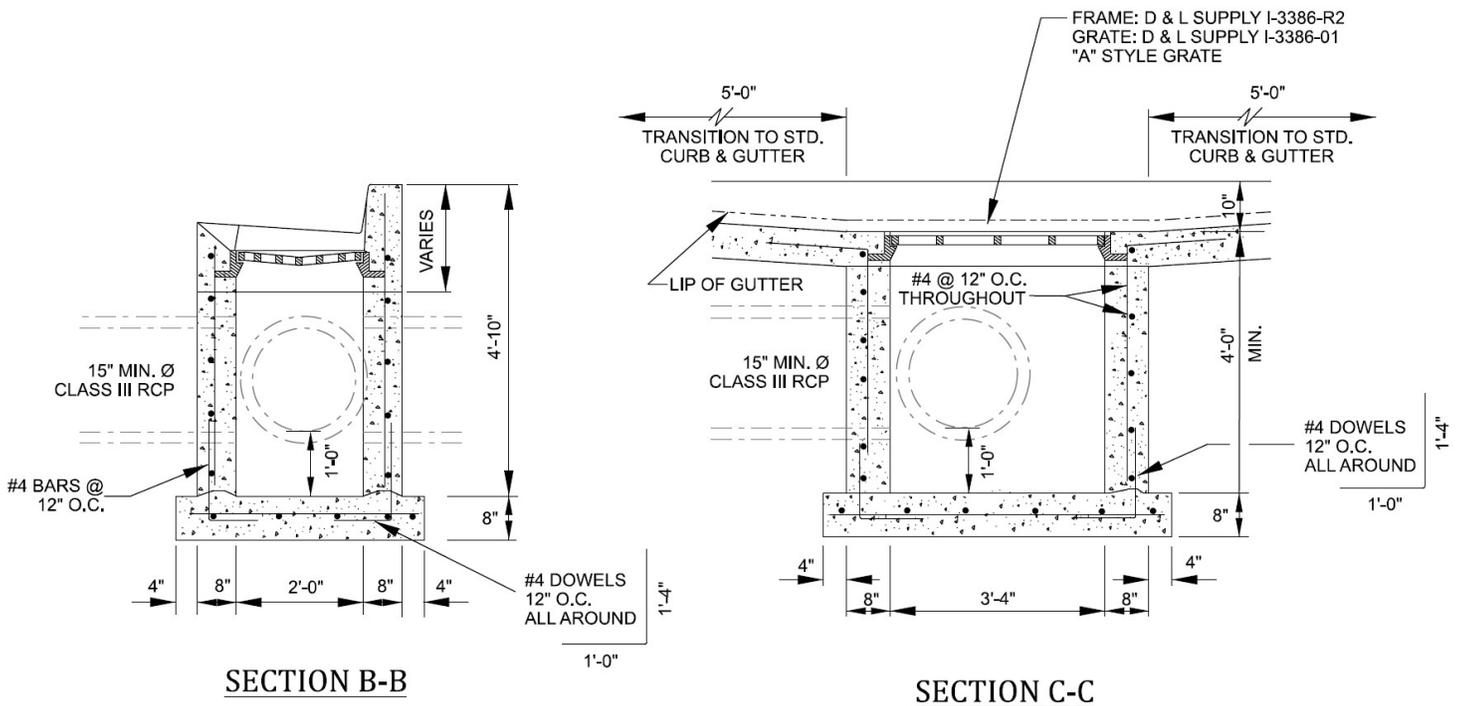
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PLAN

INLET BOX - TYPE II SINGLE

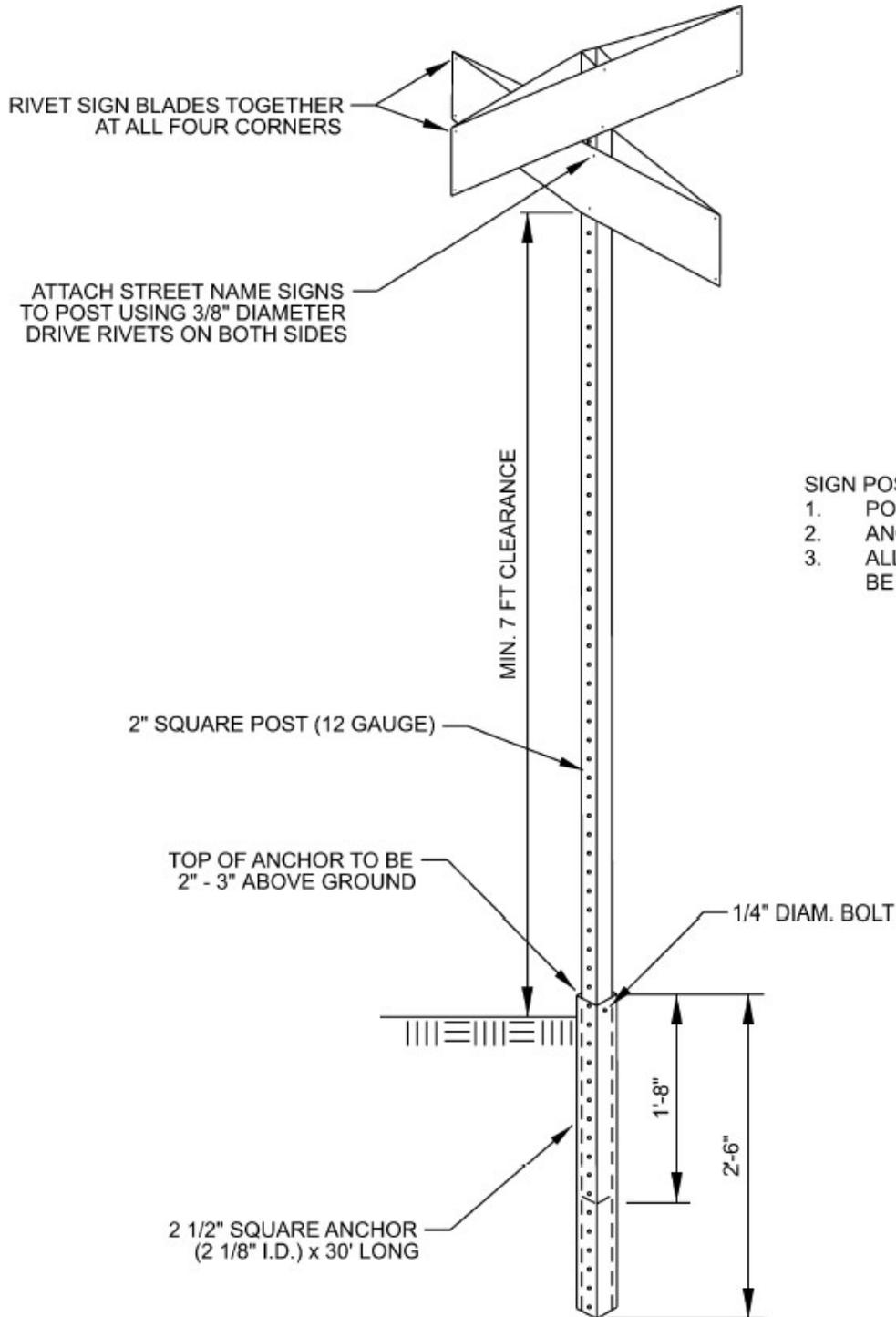
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Design Requirements

Street Signs



SIGN POST NOTES:

1. POST SHALL BE PUNCH TYPE
2. ANCHORS SHALL BE 12 GAUGE
3. ALL POSTS AND ANCHORS SHALL BE GALVANIZED STEEL

STREET SIGN POST

NTS



STANDARD STREET SIGN

NTS

STREET SIGN NOTES:

1. BACKGROUND SHALL BE GREEN (PUBLIC STREETS) OR BLUE (PRIVATE STREETS) HIGH INTENSITY PRISMATIC GRADE
2. LEGEND SHALL BE WHITE LETTERING HIGH INTENSITY PRISMATIC GRADE
3. STANDARD CITY STREET SIGNS SHALL HAVE INITIAL CAPITAL LETTERS 6" IN HEIGHT AND LOWERCASE LETTERS 4.5" IN HEIGHT
4. SIGNS PLACED ON REDWOOD ROAD OR HIGHWAY 89 SHALL HAVE INITIAL CAPITAL LETTERS 8" IN HEIGHT AND LOWERCASE LETTERS 6" IN HEIGHT
5. CITY LOGO SHALL BE FULL COLOR 7.25" x 7.25" HIGH INTENSITY PRISMATIC GRADE
6. SIGN BLANK SHALL BE 5052H38 HEAT TREATED HIGH TENSILE DEGREASED ALUMINUM WITH ALODINE 1200 FINISH. THICKNESS SHALL BE 0.080"
7. EACH SIGN SHALL CONSIST OF TWO PLATES RIVETED TOGETHER AND MOUNTED AS REQUIRED
8. CONTACT CITY ENGINEER PRIOR TO ORDERING SIGNS TO VERIFY CORRECT STREET NAMES AND COORDINATES



Design Requirements

Roadway Lighting

REQUIRED NOTES ON STREETLIGHT PLANS

1. All street lighting work will be performed in accordance with the City of North Salt Lake street lighting standards.
2. Electrical contractor will contact the Public Works Inspector prior to commencement of construction to review project before any work is performed.
3. Contractor shall be responsible to inspect poles and fixtures upon delivery to the job site and to protect the same from damage until installation is complete and lighting system is accepted by the City.
4. Contractor shall be responsible to coordinate construction of lighting system with Rocky Mountain Power and the City. It shall be the responsibility of the contractor to confirm final location of RMP transformers or secondary boxes before starting construction.
5. All light poles, fixtures, junction boxes, POD boxes transformers, secondary boxes, underground conduit and wiring shall be placed only within the public street right-of-way and/or designated public utility easement.
6. All underground work shall be completed and inspected prior to backfilling. Failure to call for inspection, the contractor will be responsible for potholing conduit in as many locations as the Public Works Inspector deems necessary to insure piping was installed to city standards.
7. All aspects of street lighting installation shall be inspected by the Public Works Inspector, call to schedule appointments at least 48 hours in advance. There will be a minimum of three (3) required inspection/meets.
 - a. Pre-work meet to discuss layout and installation criteria.
 - b. Underground inspection
 - c. Final inspection after system is completely installed.
8. All work shall be performed by a licensed electrical contractor. City has the right to reject any contractor that fails to comply with these standards and/or has a history of poor performance of jobs completed in the city.

STREET LIGHT STANDARD SPECIFICATION

1. The developer shall show streetlight locations on all residential, commercial and industrial development plats. Streetlights shall be placed at lot line boundaries to avoid unnecessary obstruction along property frontage. City Public Works Department, Engineer or City Planner may require additional or fewer streetlights at their discretion. Additional streetlights may be required in locations that pose a safety hazard or special traffic need. Cost for additional streetlights shall be incurred by the developer.
2. The developer shall be responsible for the installation of all underground infrastructure and light pole foundations. The city's electrical contractor shall install all new or replacement street lights and the developer shall be responsible for payment to the city the per light contracted price established each contract year with the city contractor. Those cost shall include labor, material and equipment to provide and install a complete and functioning streetlight system as per approved plans and shown on development plats. It shall be the responsibility of the developer's contractor to install all underground conduit, junction/splice and point of disconnect boxes. The city will bill the developer for installation costs and materials to connect streetlight poles and luminaires by the city's electrical contractor which exceed the contracted price for variables particular to the development site.
3. Components of the street lighting system shall follow the standards, specifications and styles currently adopted by the City. Consult with Public Works Inspector, City Engineer or City Planner for streetlight styles required in area of development. **(Please see attached map on Page 20)**
4. City contractor shall install light poles and luminaires in accordance with manufactures written instructions and recommendations. Poles shall be plumb, and luminaires shall be level or as to meet best light distribution.
5. An operational demonstration shall be required for all newly installed street lights. Luminaires shall be continuously operated for a minimum of 48hrs
6. Developer shall warranty street lighting system for one (1) year starting from the date of final project approval.

STREET LIGHTS SPACING AND PLACEMENT

1. Streetlights abutting residential streets shall be placed on alternating sides of the road at a maximum of 300' centered in park strip and centered on property lines as close as possible. Light spacing adjacent to major collector roads or located in the town center or in industrial areas will be as approved as part of the Site Plan Approval.
2. Streetlights shall be installed at all road intersections, curves in the road and at the end of each cul-de-sac.

POLE INSTALLATION

1. Contractor shall contact blue stakes prior to any excavation. Contractor is responsible for any damage to underground utilities or structures.
2. Contractor is responsible for verification of streetlight location and restoration of environment compromised by installation.
3. All concrete shall be a 4000psi mix as per APWA 03 30 04. Pole placement shall meet city standards and be inspected prior to the pour. Base shall meet lighting manufactures size and requirements with a minimum of a 48 inch deep base from finished grade and 24 inch diameter. Concrete must be poured against undisturbed soil at a point 12 inches below grade. Base shall be 4 to 6 inches above final grade for pole protection from edging and mowers. Base shall include a minimum of five (5) #4 vertical bars and six (6) #4 rings placed every 12 inches. Anchor bolts shall be installed according to manufactures template. Digging a hole and placing a full length Sonotube type form will not be accepted unless conditions do not allow for a standard installation and change has been approved by the city.
4. Pole shall be plumb and secure.
5. All poles shall be centered in park strip and centered on property lines as close as possible. Poles shall be oriented at right angles to the survey line of roadway unless otherwise specified on plan sheet
6. Streetlights shall have a 5' minimum separation from any fire hydrant so it will not restrict the access for emergency personnel.
7. Orient all poles such that a technician facing the hand hole will face the roadway or oncoming traffic
8. Light poles may be located behind sidewalks in rare cases of conflicts. Location shall be approved by the Public Works Inspector, City Engineer or City Planner.
9. Pole shall be cleaned from dirt and debris after installation and before final inspection.
10. Direct buried poles shall be installed as per manufactures recommendations with a minimum of 48" depth for pole base to be set in ground from finished landscape. Backfilled with compactable material and compacted to, at least a 90% compaction. No rocks bigger than ¾" shall be next to or compacted around the pole base.
11. Each light pole and luminaire shall be grounded. All rebar will have a #6 bare copper wire tied to the bottom ring with an approved fitting for that application in each base. Grounding wire from base shall be tied to the ground lug on pole and into the ground wire for the streetlight system. All luminaire's will be grounded regardless of pole material type.

JUNCTION/SPLICE AND POD BOXES

1. Junction/splice and POD boxes shall be a traffic rated pre-cast polymer box 25"x16"x24" in all commercial and industrial developments and high traffic areas.
2. Junction/splice and POD boxes in residential and non-high traffic areas shall be Carson Brooks 1419 green boxes or equal. Two boxes will be required for each junction/splice location. Boxes at junction/splices shall be clam shelled together with 1 ¼ epoxy coated deck screws eight (8) total screws spaced equally around the boxes. Lids shall be installed on both sides. Drain holes shall be drilled in bottom lid as per city standard detail. Conduits shall enter bottom of box with long bend 90° fittings to maintain proper depth. Holes in box shall be cut as tight as possible.
3. All lids will shall be manufactured with "STREET LIGHTING" in the logo area with 1' lettering. Lid shall attach to base with stainless steel bolts and washers.
4. Place a 24"x24"x4" area of ¾" gravel under each box for drainage.
5. Box shall be level with final grading.
6. All Junction/splice and POD boxes shall have an 8'x5/8" ground rod installed inside and driven in 6" above bottom level of box. Street lighting grounding system shall be tied to ground rod, luminaire head, metal pole, concrete base ground ring and bonded to the neutral system as per NEC code 250.4. All luminaire heads shall be grounded regardless of pole material type.
7. POD boxes shall be installed no further than 10' from RMP feed location.
8. If a streetlight is located on the same property as the POD box and is within 100' of the POD box, no additional splice box will be needed. If streetlight is not on same property line or further than 100' from the POD box, then a splice box within 5' of street light shall be required. If more than one (1) streetlight is on feeder from a POD box a splice box will be required at each streetlight location.
9. Wire shall extend minimum of 24 inches above final grade of junction/splice and POD boxes.



Design Requirements

Roadway Lighting

CONDUIT

1. 1 ½" gray schedule 40 PVC electrical conduit shall be installed at a minimum of 30" deep for all underground work. When direct buried streetlight poles are used, it shall be permissible to install 1" PVC conduit from the pole to the splice box located within 5' of the pole.
2. RMP feeder sizes will need to meet the requirements of their specs.
3. Conduits shall be installed in park strips or within the public utility easement behind sidewalk.
4. Conduits in an extreme case that need to cross roadway shall be 1 ½" schedule 80 PVC installed in 4" HDPE electrical piping or a gray 4" PVC sleeve pipe. NO EXCEPTIONS!
5. All conduits in each junction/splice and POD boxes shall be sealed with duct seal.
6. Bell end bushing shall be installed on all pipe ends located in junction/splice and POD boxes.
7. All underground conduit shall be bedded with sand, NO EXCEPTIONS! Trenches will be backfilled and compacted as per city standards.
8. 6" red warning taped marked "DANGER UNDERGROUND ELECTRICAL" shall be placed in trench 12" below grade above street lighting underground conduits.

WIRING

1. The contractor shall provide 2 #6 RHH copper conductors or equivalent copper direct burial wires for the wiring of the streetlights to the RMP point of distribution. Wire jacket colors shall be black and white.
2. The contractor shall install 3 #6 RHH copper conductors for all streetlight locations. Wire jacket colors shall be white, black and green.
3. The contractor shall install 3 #10 RHH copper wires from pole base to luminaires. Wire jacket colors shall be white, black and green. #10 wire only will be allowed up light poles and must be tied off at top to support weight of wire and not put strain on connections.
4. Voltage supplying streetlights shall be permanently labeled in each junction/splice and POD box.

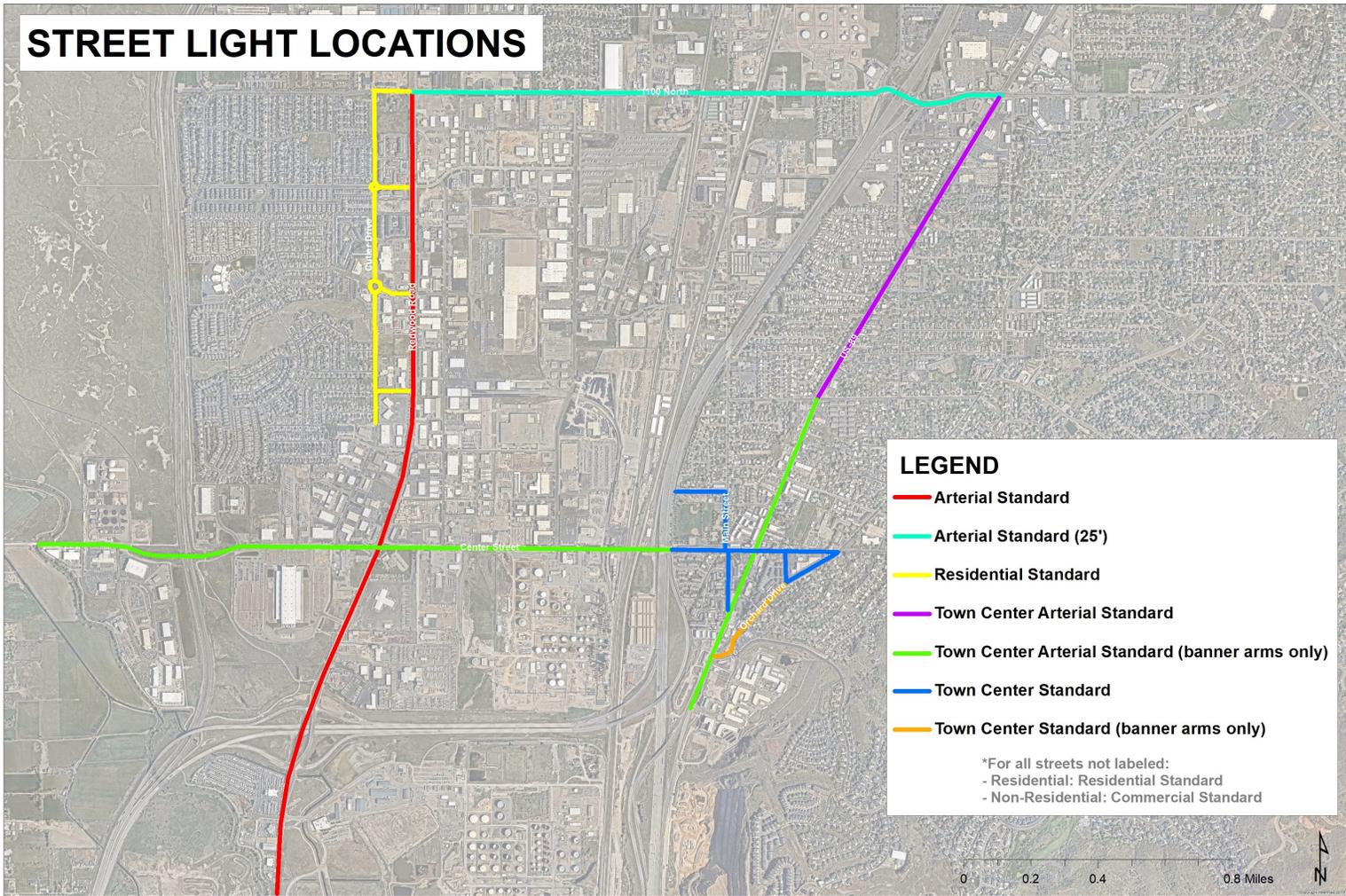
CONNECTIONS

1. Minimum accepted connection at luminaries shall be taped wire nut connections. This will be the only place wire nuts are allowed.
2. Wires shall be supported at top of poles to take strain off connection points from weight of wires.
3. Connections at base of poles shall be of the butt crimp type and sealed with an NSI Industries Easy-Splice GEL Stub 2 (part # GSS-2) connector or an NSI Industries Easy-Splice GEL 2/0 SL (part # ESSLK-2/0) connector for all #6 wire connections or approved equals. NO WIRE NUTS ALLOWED.
4. Connections in ground boxes shall be made with the NSI Easy Splice GEL 2/0 SL (part # ESSLK-2/0) connector for 3 wire connections or a NSI Easy Splice GEL TAP 2/0 (part # ESGTS-2/0) connector for 4 wire connections or approved equals such as Blackburn USB-S squids. WIRE NUTS ARE NOT ALLOWED!
5. Fuse assembly shall be Bussman HEB-JJ with Bussman 2A0660 boots, no substitutions, and fused with KTK-10-amp fuse. POD fuse will have a fuse size of 10 amp for 1 light and adding an additional 5 amp for every light added to feeder with a maximum of 30 amp. Each feeder that feeds more than one (1) streetlight shall have a fuse at the streetlight location and be fused with a KTK-5 fuse.

ROCKY MOUNTAIN POWER POINTS OF CONNECTION

1. All points of connection to RMP facilities shall comply with the current RMP release of the electric service requirements published by RMP available on their web site.
2. Final hookup to RMP equipment will be by RMP crews. Five (5) additional feet of wire between RMP POD box and transformer or secondary box shall be provided for RMP crews to make connection into transformer or secondary box.
3. Locations where a master meter is used, the City Engineer will arrange for the meter account set up with Rocky Mountain Power. The city's electrical contractor will set meter base (Milbank CP3B1111FASS). The city will bill the developer for installation costs and materials.

Roadway Lighting Map



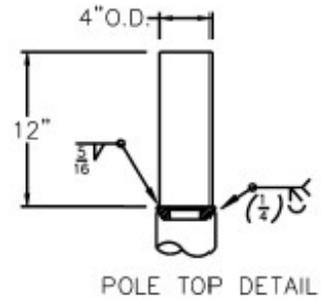
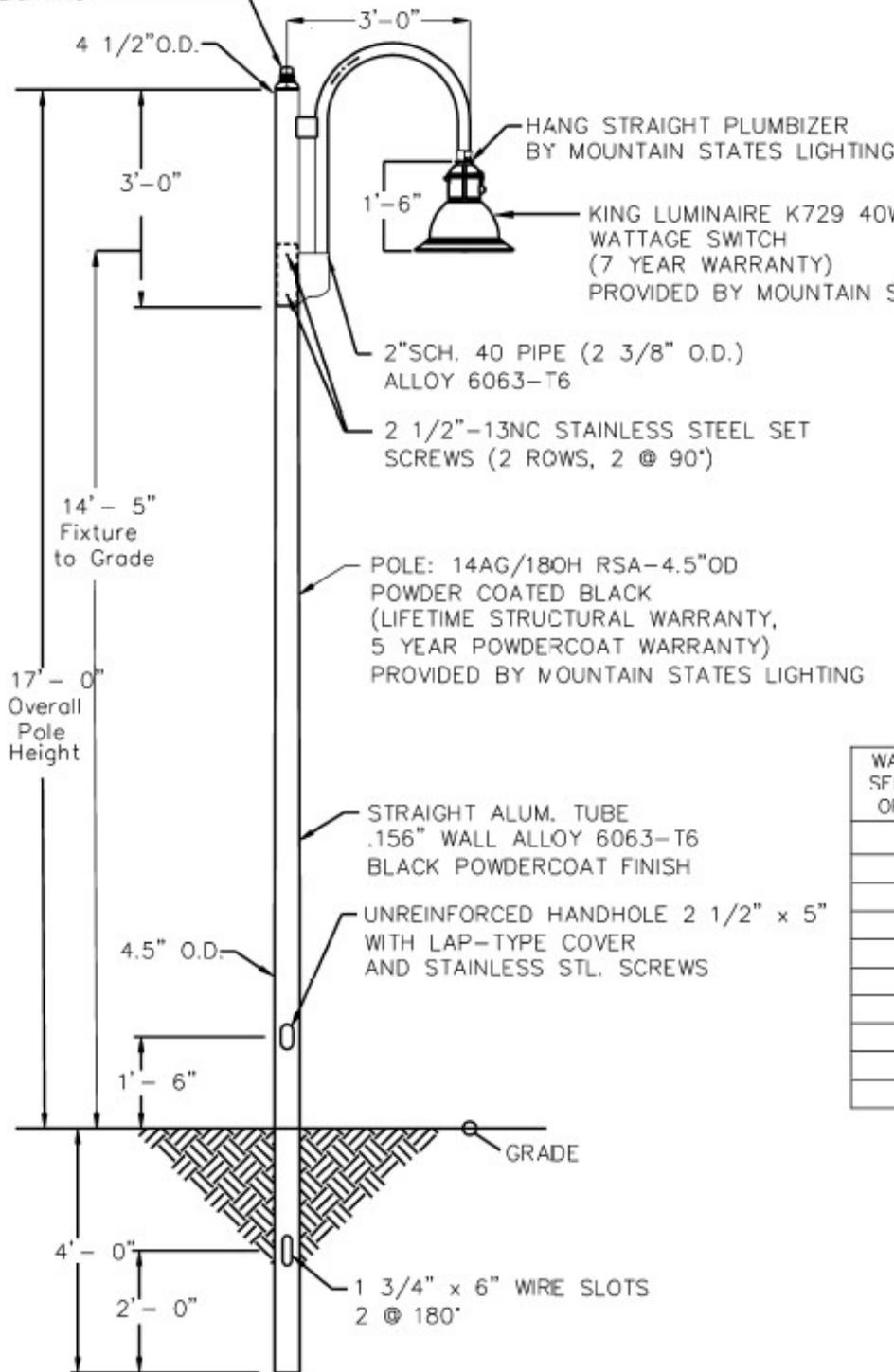


Design Requirements

Residential Standard

RIPLEY RD8645 LED PHOTOCCELL
(10 YEAR WARRANTY, UDOT SPEC)
(7 PIN RECEPTACLE)
PROVIDED BY
MOUNTAIN STATES
LIGHTING

FIXTURE RATINGS
Weight: 19 lbs
EPA: .63FT²



POLE TOP DETAIL

WATTAGE SWITCH SETTINGS

WATTAGE SF1 FACTOR OPTION	DIMMING PERCENTAGE	WATTAGE PERCENTAGE
0	0%	100%
1	10%	90%
2	20%	80%
3	30%	70%
4	40%	60%
5	50%	50%
6	60%	40%
7	70%	30%
8	80%	20%
9	90%	10%

Town Center Standard

FIXTURE RATINGS

Weight: 40 lbs
EPA: 1.8FT²

120 VOLT
GFI RECEPTACLE
(ONLY TO BE USED
W/ METERED POLES)

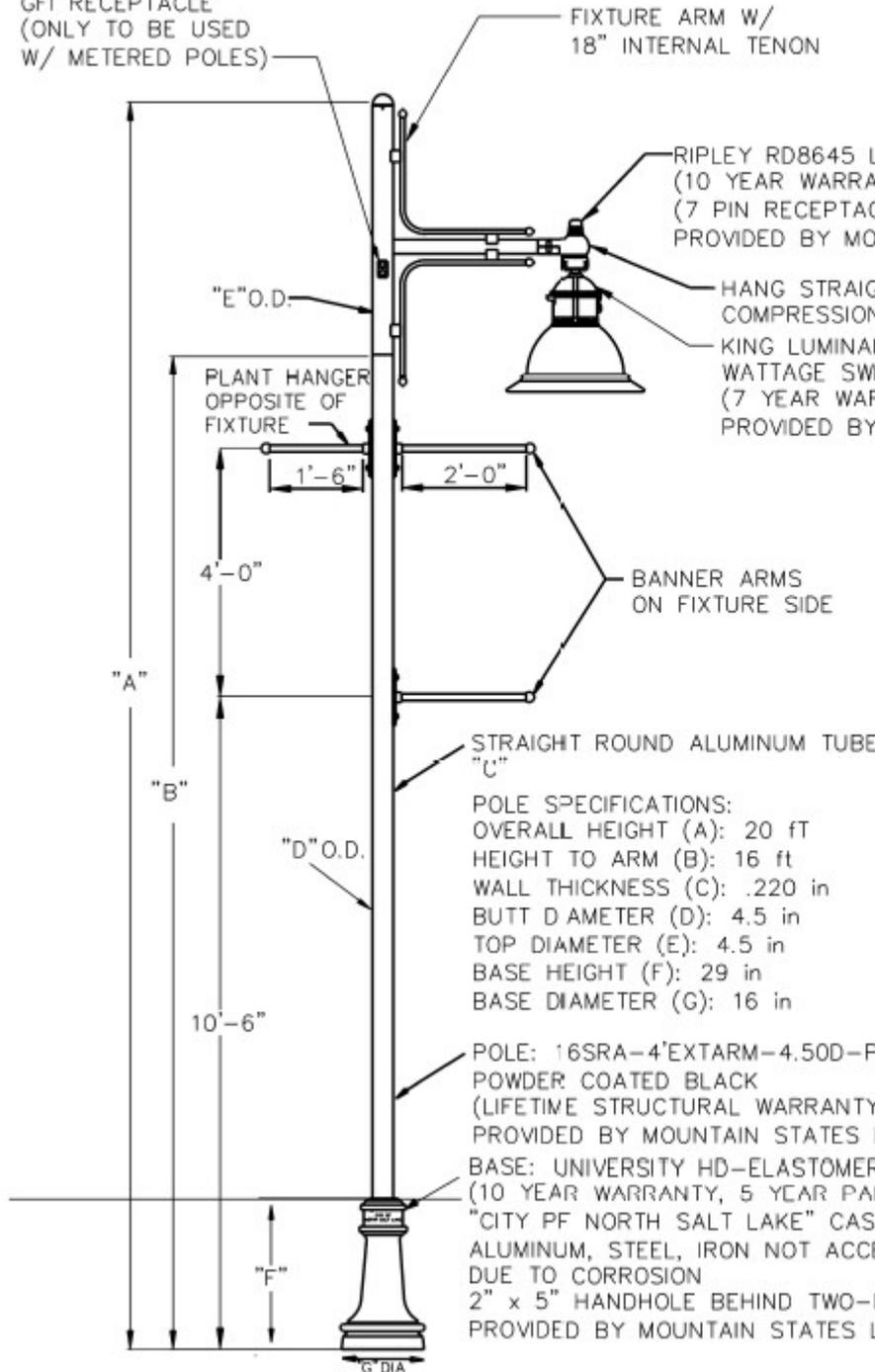
FIXTURE ARM W/
18" INTERNAL TENON

RIPLEY RD8645 LED PHOTOCELL
(10 YEAR WARRANTY, UDOT SPEC)
(7 PIN RECEPTACLE)
PROVIDED BY MOUNTAIN STATES LIGHTING

HANG STRAIGHT
COMPRESSION PLUMBIZER
KING LUMINAIRE K829 60W, 3000K,
WATTAGE SWITCH
(7 YEAR WARRANTY)
PROVIDED BY MOUNTAIN STATES LIGHTING

WATTAGE SWITCH SETTINGS

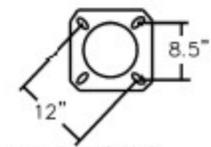
WATTAGE SELECTOR OPTION	DIMMING PERCENTAGE	WATTAGE PERCENTAGE
0	0%	100%
1	10%	90%
2	20%	80%
3	30%	70%
4	40%	60%
5	50%	50%
6	60%	40%
7	70%	30%
8	80%	20%
9	90%	10%



POLE SPECIFICATIONS:
OVERALL HEIGHT (A): 20 ft
HEIGHT TO ARM (B): 16 ft
WALL THICKNESS (C): .220 in
BUTT D AMETER (D): 4.5 in
TOP DIAMETER (E): 4.5 in
BASE HEIGHT (F): 29 in
BASE DIAMETER (G): 16 in

POLE: 16SRA-4'EXTARM-4.50D-PLUMB
POWDER COATED BLACK
(LIFETIME STRUCTURAL WARRANTY, 5 YEAR POWDERCOAT WARRANTY)
PROVIDED BY MOUNTAIN STATES LIGHTING

BASE: UNIVERSITY HD-ELASTOMER BASE
(10 YEAR WARRANTY, 5 YEAR PAINT WARRANTY)
"CITY PF NORTH SALT LAKE" CAST IN BASE
ALUMINUM, STEEL, IRON NOT ACCEPTABLE
DUE TO CORROSION
2" x 5" HANDHOLE BEHIND TWO-PIECE BASE
PROVIDED BY MOUNTAIN STATES LIGHTING

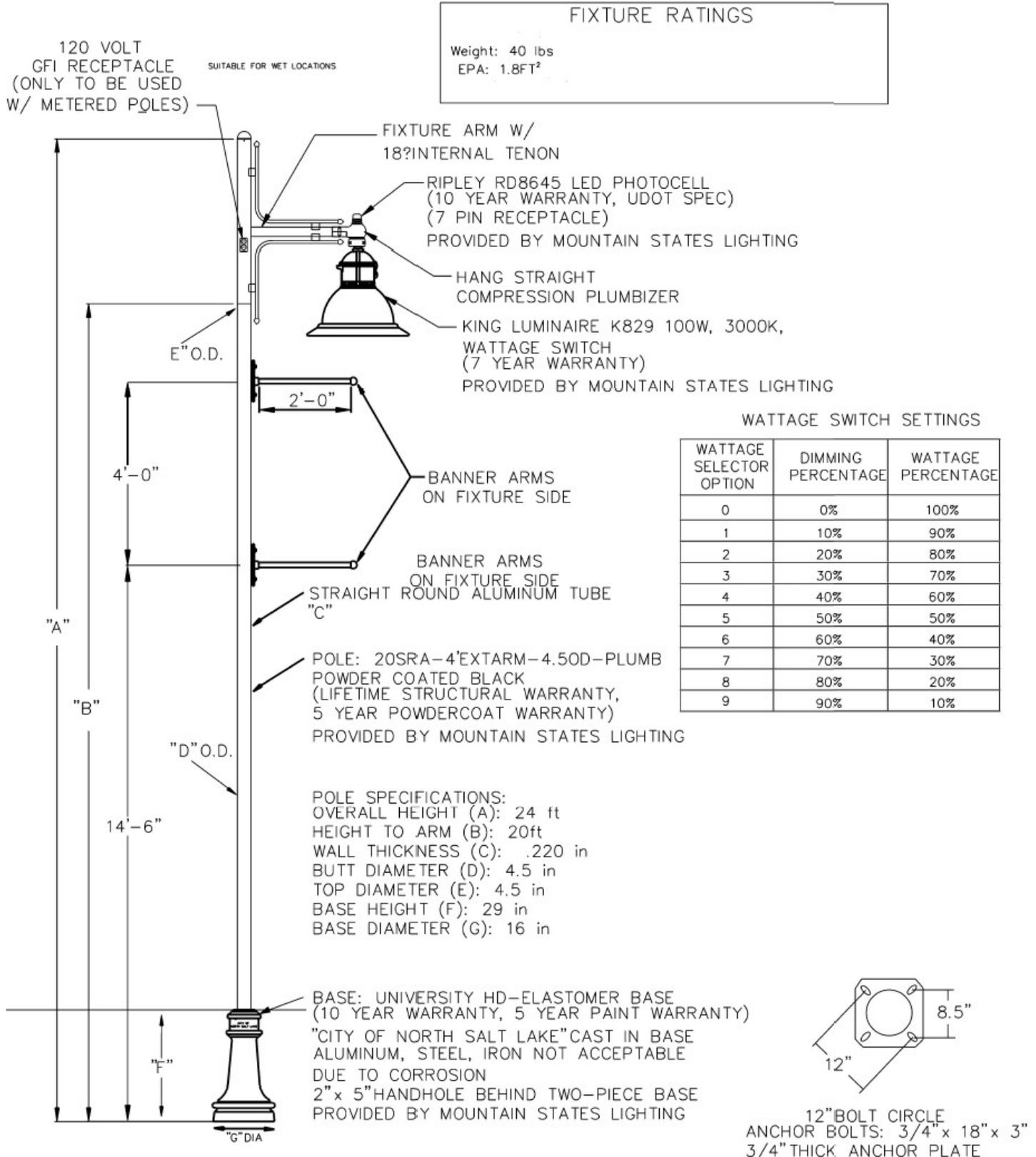


12" BOLT CIRCLE
ANCHOR BOLTS: 3/4"x18"x3"
3/4" THICK ANCHOR PLATE



Design Requirements

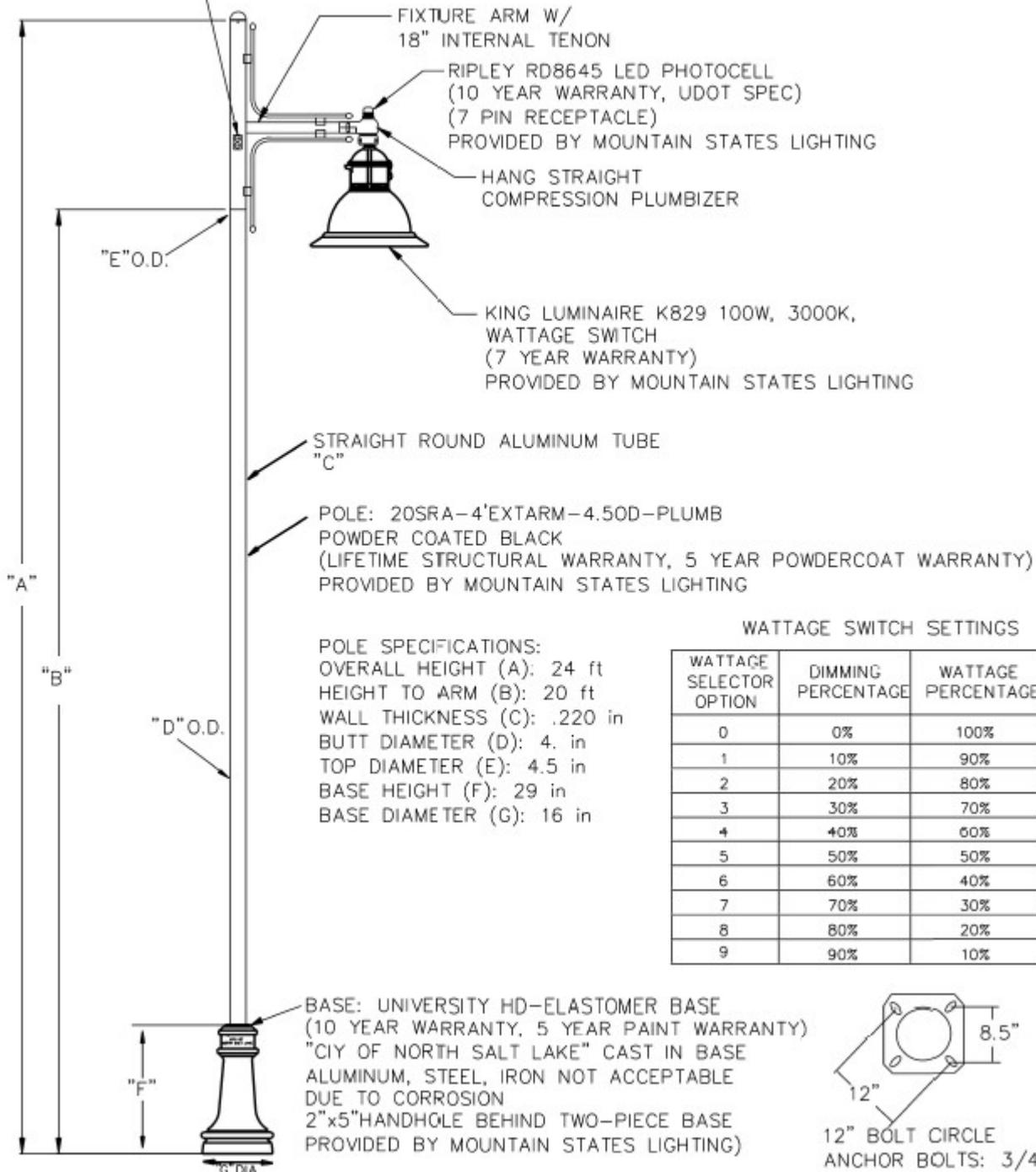
Town Center Standard w/ Banner Arms



Town Center Arterial Standard

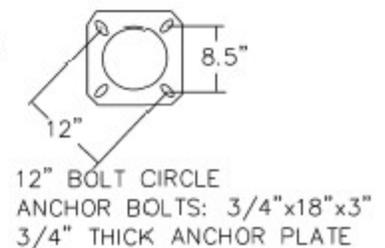
120 VOLT
GFI RECEPTACLE
(ONLY TO BE USED
w/ METERED POLES)

FIXTURE RATINGS	
Weight:	40 lbs
EPA:	1.8FT ²



WATTAGE SWITCH SETTINGS

WATTAGE SELECTOR OPTION	DIMMING PERCENTAGE	WATTAGE PERCENTAGE
0	0%	100%
1	10%	90%
2	20%	80%
3	30%	70%
4	40%	60%
5	50%	50%
6	60%	40%
7	70%	30%
8	80%	20%
9	90%	10%



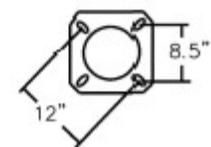
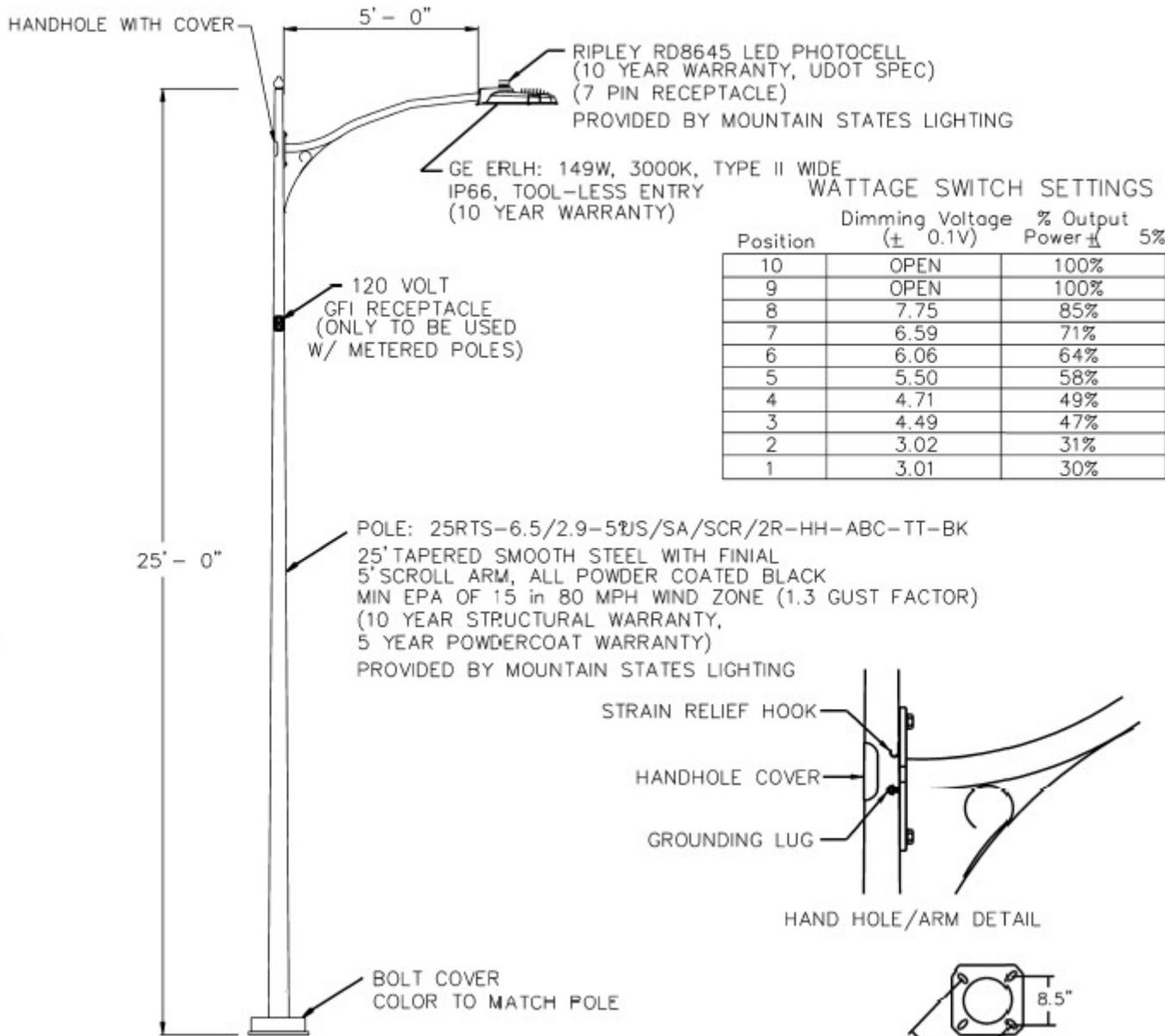


Design Requirements

Commercial Standard

FIXTURE RATINGS

Weight: 15.15 lbs
EPA: 0.5 FT²

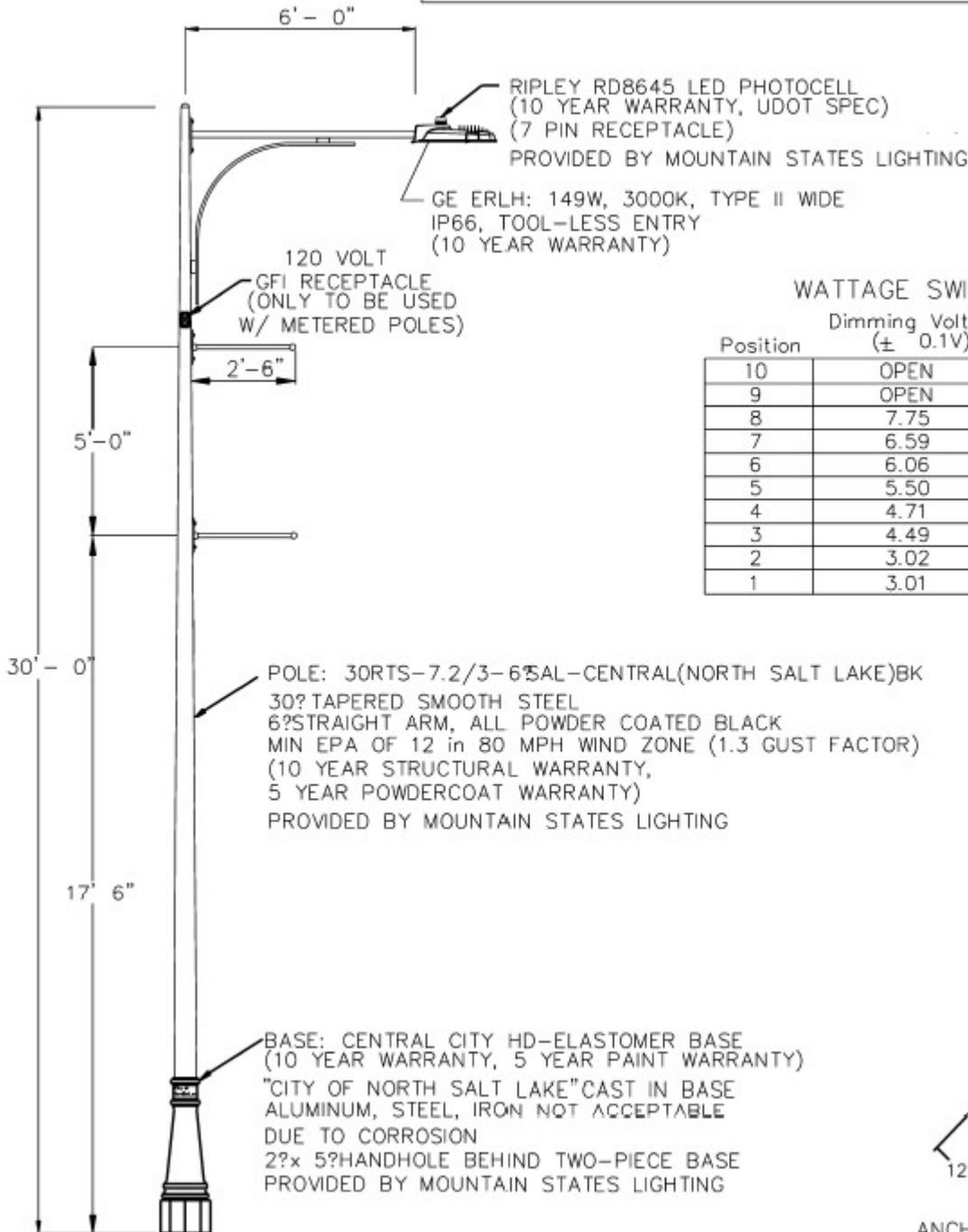


ANCHOR BASE DETAIL
12" BOLT CIRCLE
ANCHOR BOLTS: 1" x 36"

Arterial Standard

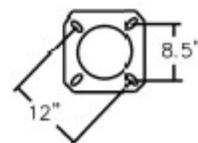
FIXTURE RATINGS

Weight: 15.15 lbs
EPA: 0.5 FT²



WATTAGE SWITCH SETTINGS

Position	Dimming Voltage (± 0.1V)	% Output Power ± 5%
10	OPEN	100%
9	OPEN	100%
8	7.75	85%
7	6.59	71%
6	6.06	64%
5	5.50	58%
4	4.71	49%
3	4.49	47%
2	3.02	31%
1	3.01	30%

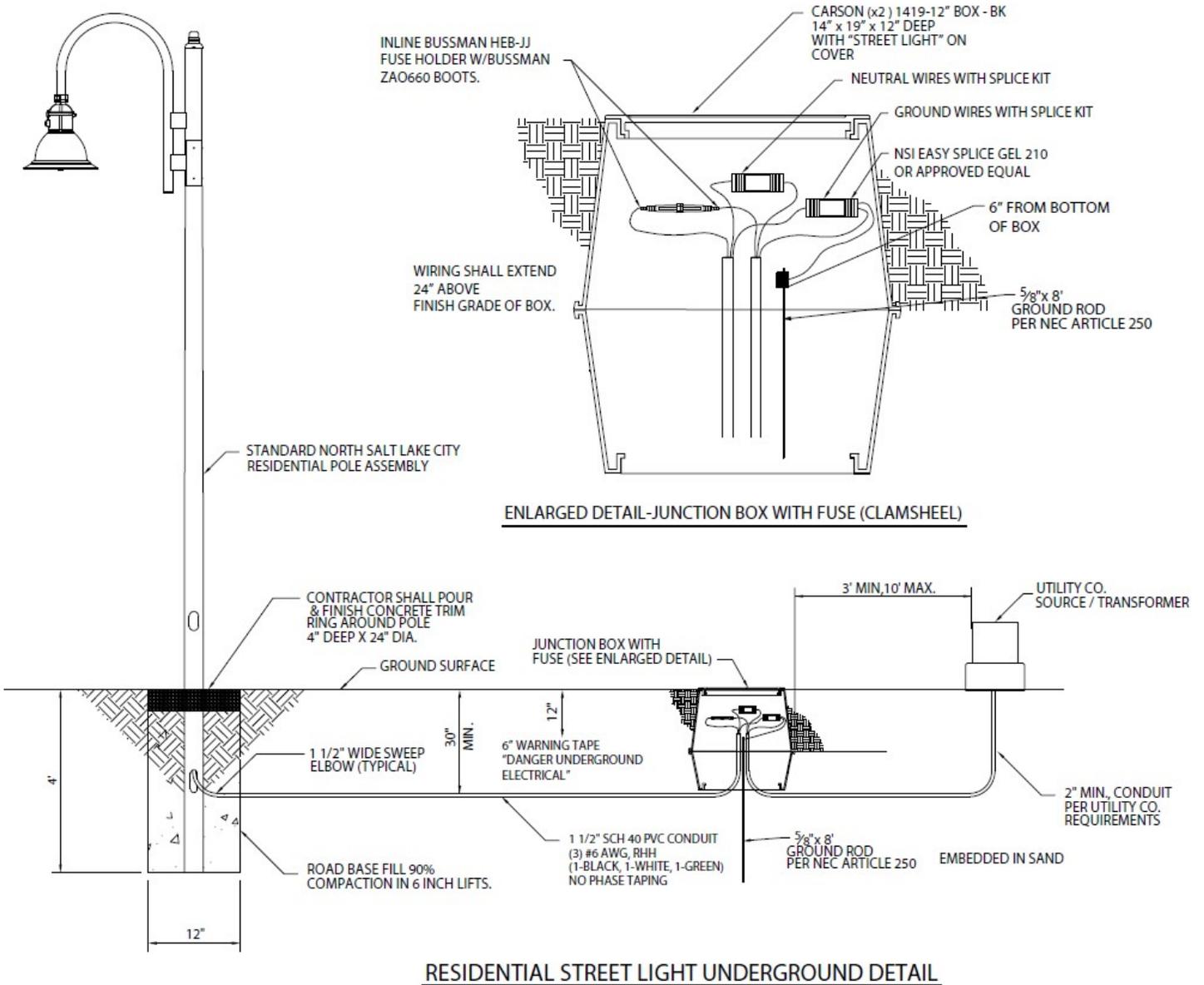


ANCHOR BASE DETAIL
12" BOLT CIRCLE
ANCHOR BOLTS: 1" x 36"

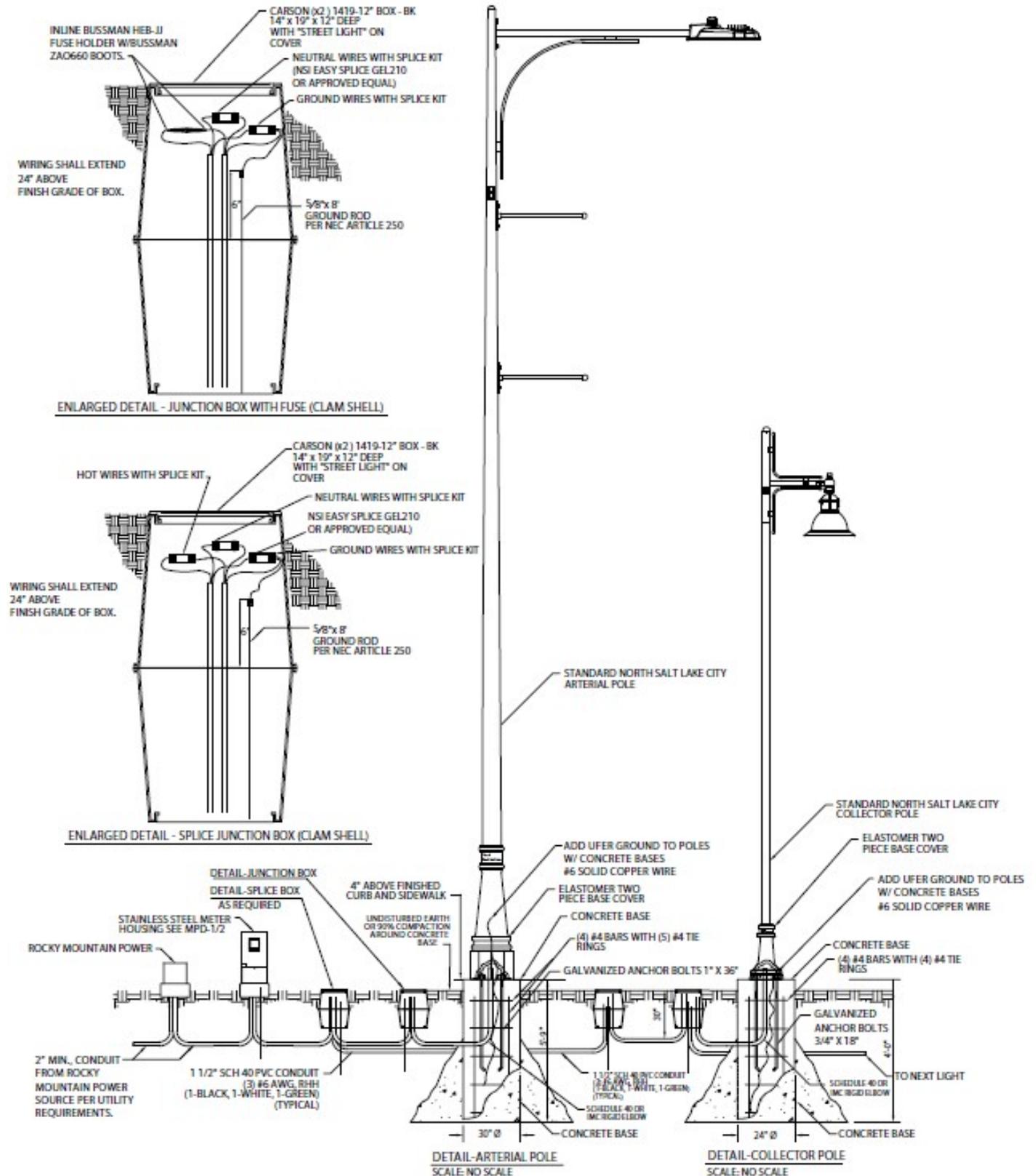


Design Requirements

Residential Street Light Underground Connection



Collector/Arterial Street Light Underground Connection

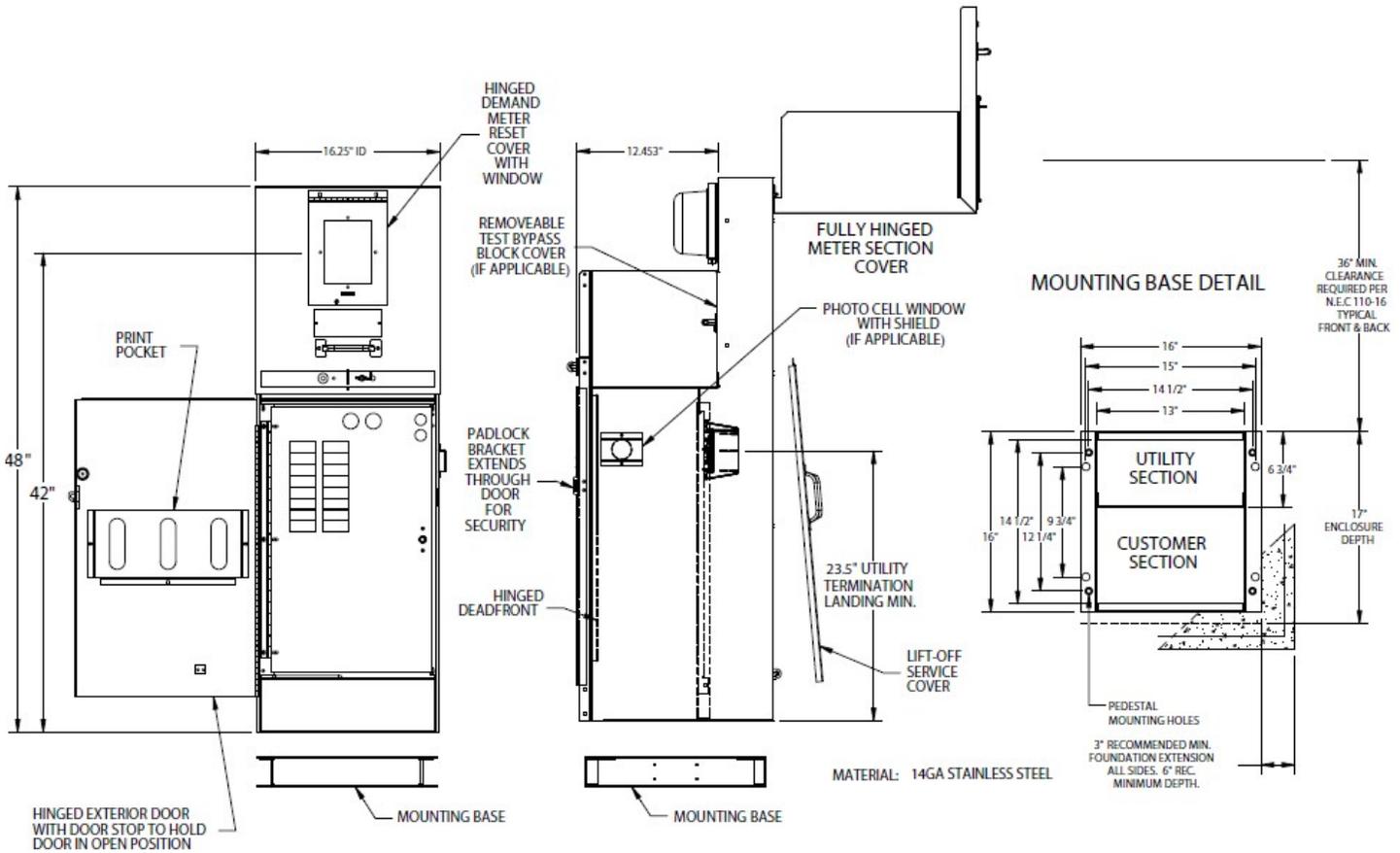




Design Requirements

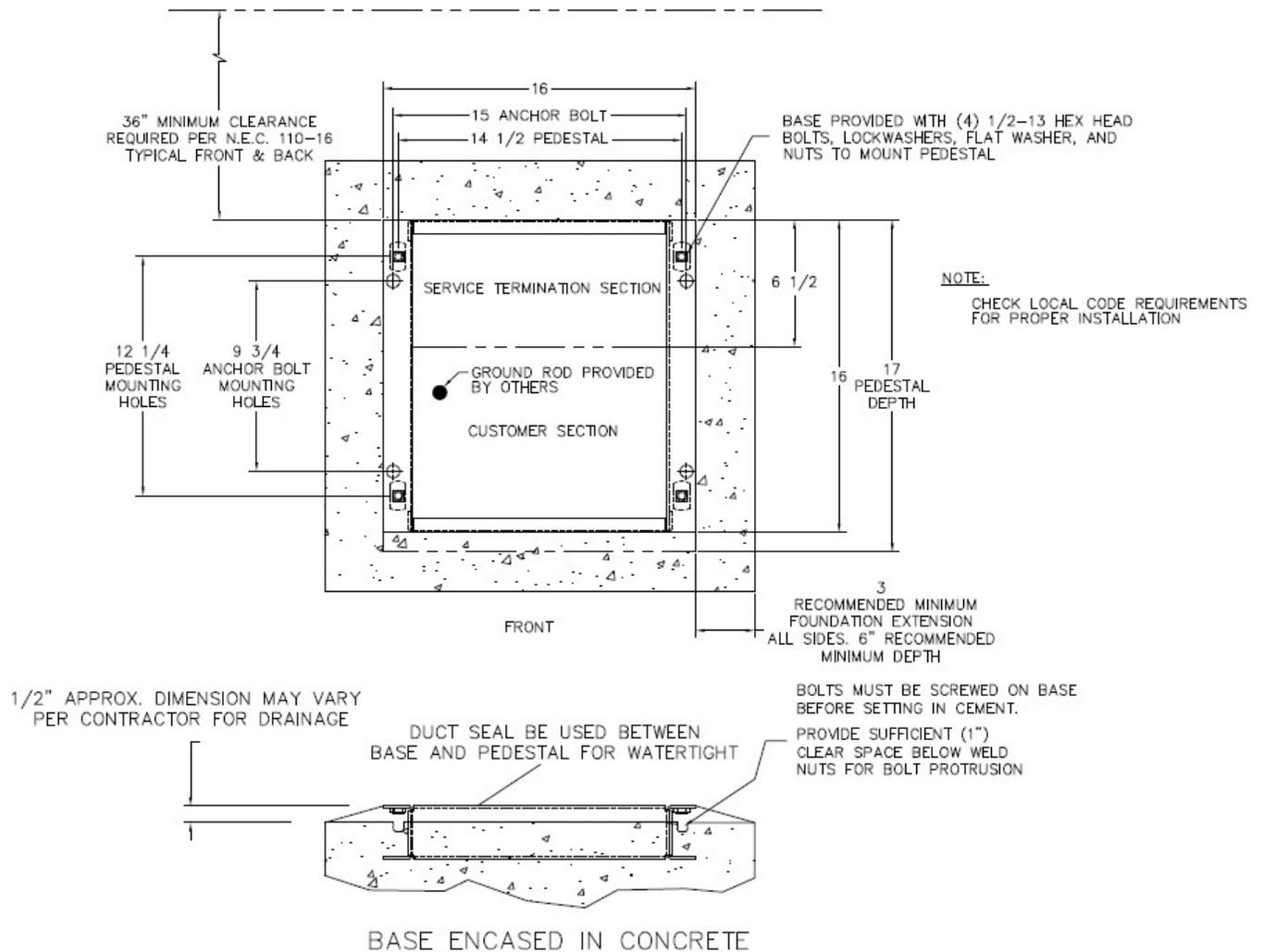
Meter Pedestal Detail

16" COMMERCIAL PEDESTAL



MILBANK # CP3B1111FASS

BASE ENCASED IN CONCRETE



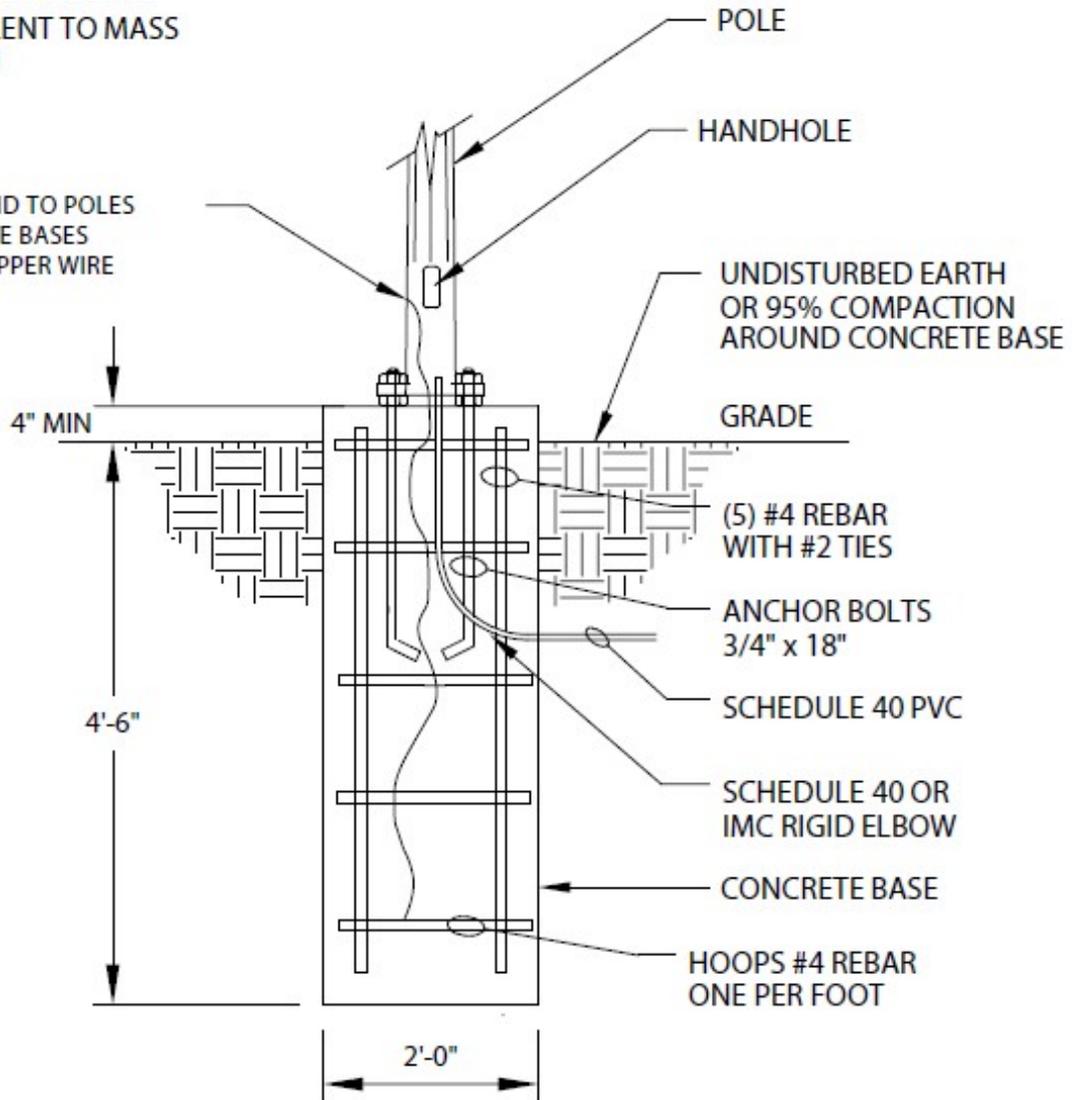


Design Requirements

24" Concrete Base Detail

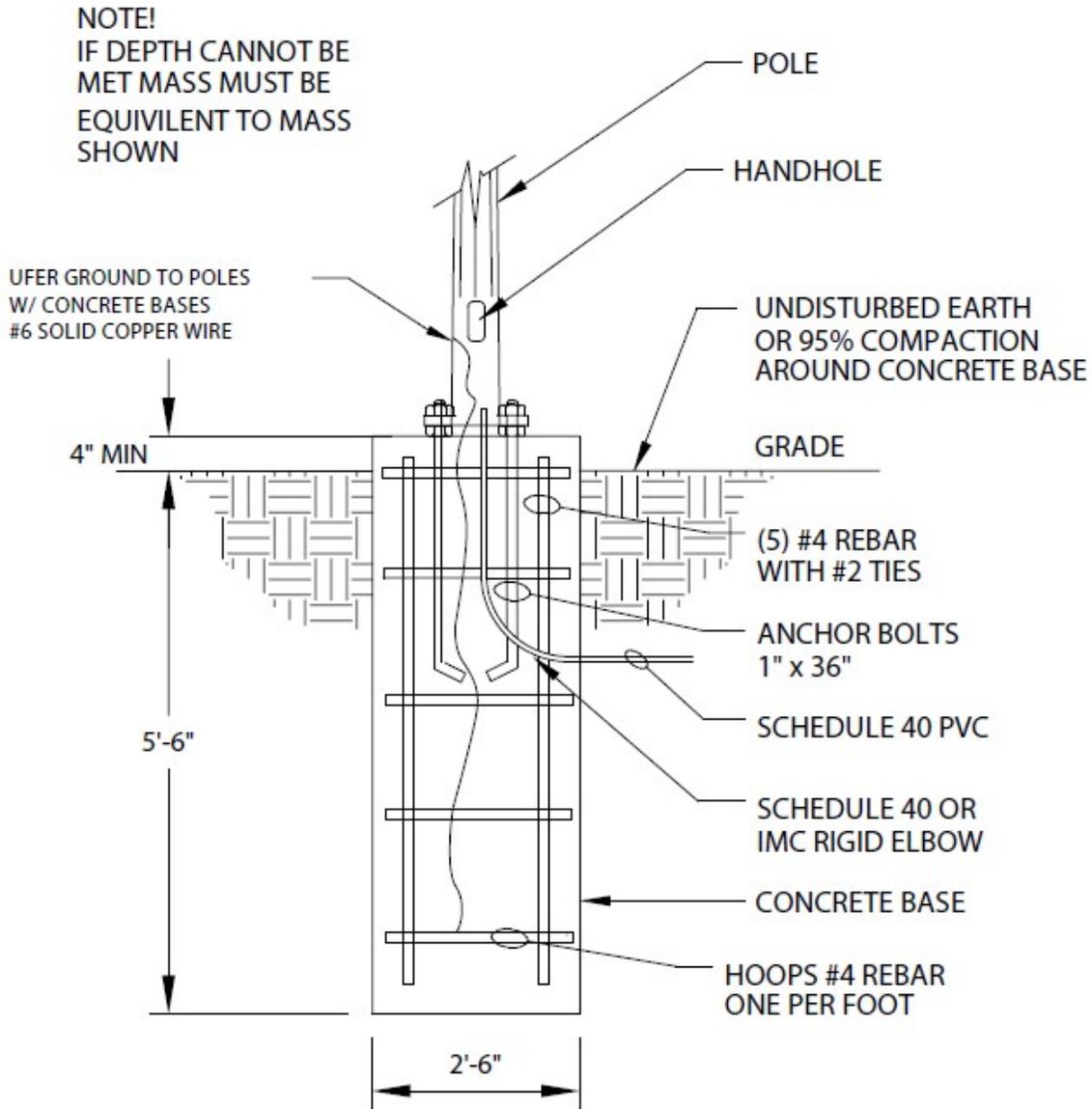
NOTE!
IF DEPTH CANNOT BE
MET MASS MUST BE
EQUIVALENT TO MASS
SHOWN

UFER GROUND TO POLES
W/ CONCRETE BASES
#6 SOLID COPPER WIRE



CONCRETE BASE DETAIL FOR SL-02, SL-02A, SL-04, SL-04A, SL-04B

30" Concrete Base Detail



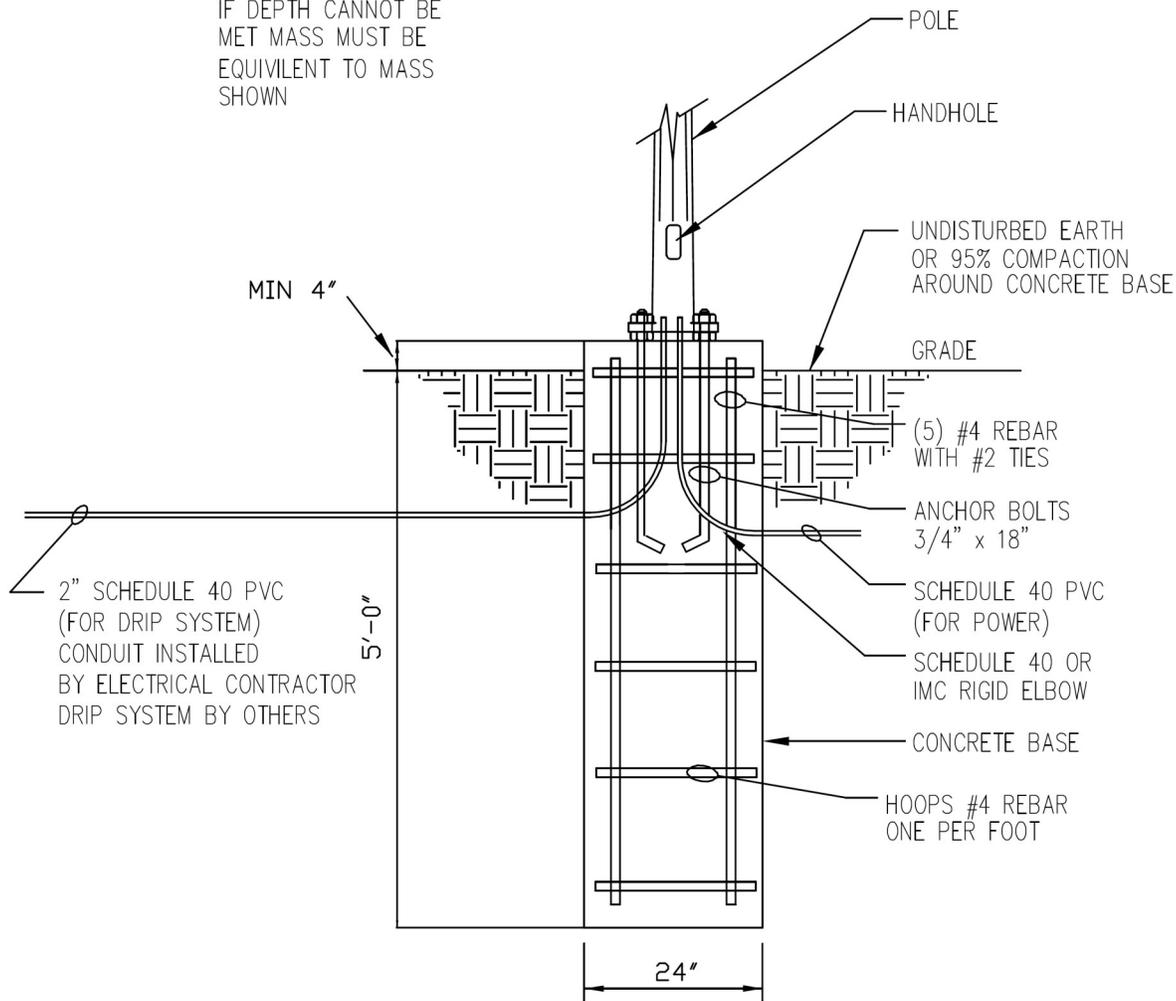
CONCRETE BASE DETAIL FOR SL-05, SL-06, SL-06A



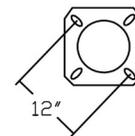
Design Requirements

Concrete Base Detail

NOTE!
IF DEPTH CANNOT BE
MET MASS MUST BE
EQUIVALENT TO MASS
SHOWN



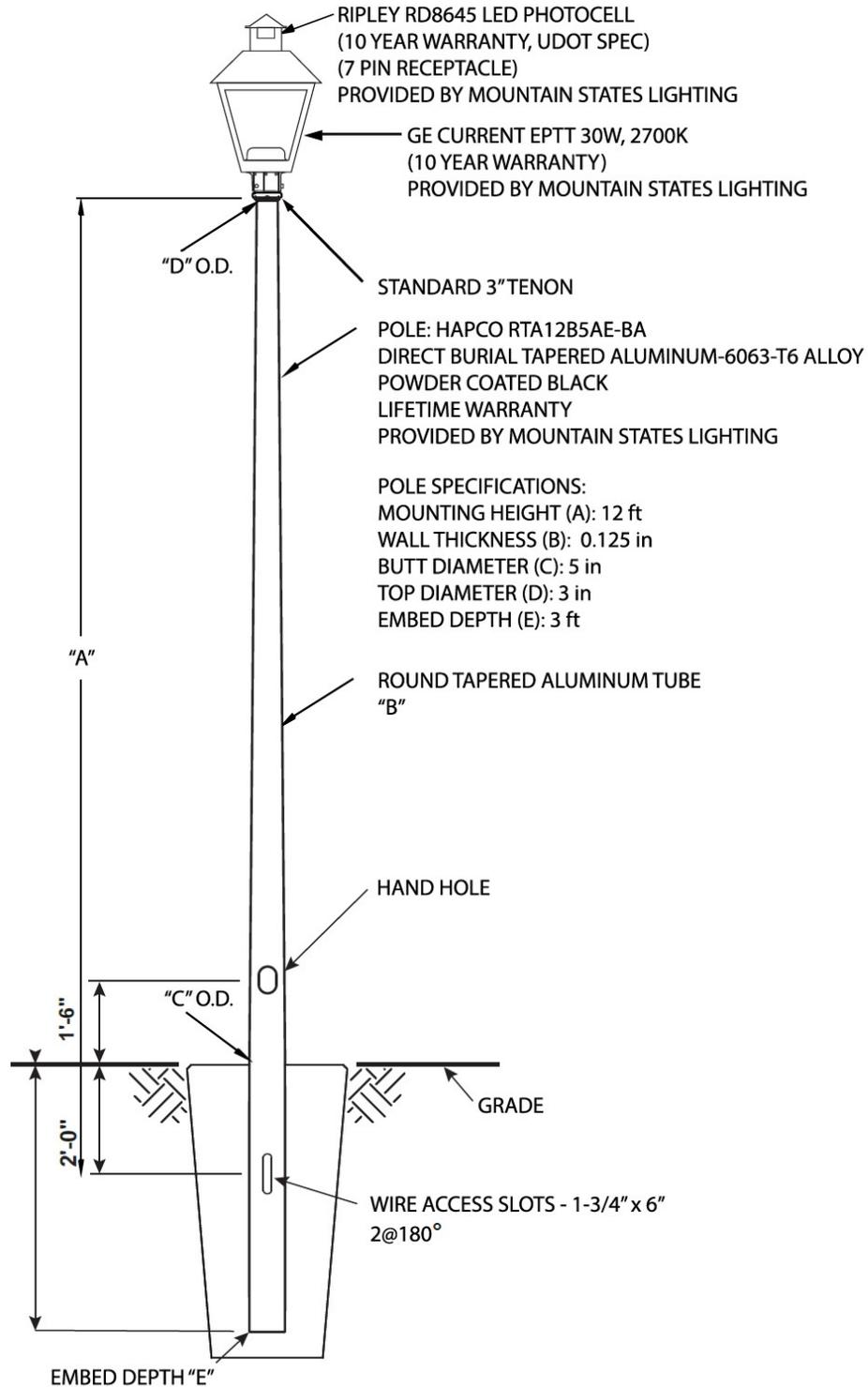
NSL - CONCRETE BASE DETAIL



ANCHOR BASE DETAIL
12" BOLT CIRCLE
ANCHOR BOLTS: 3/4" x 18"

Town and Country Style Lighting

Only for replacement installations



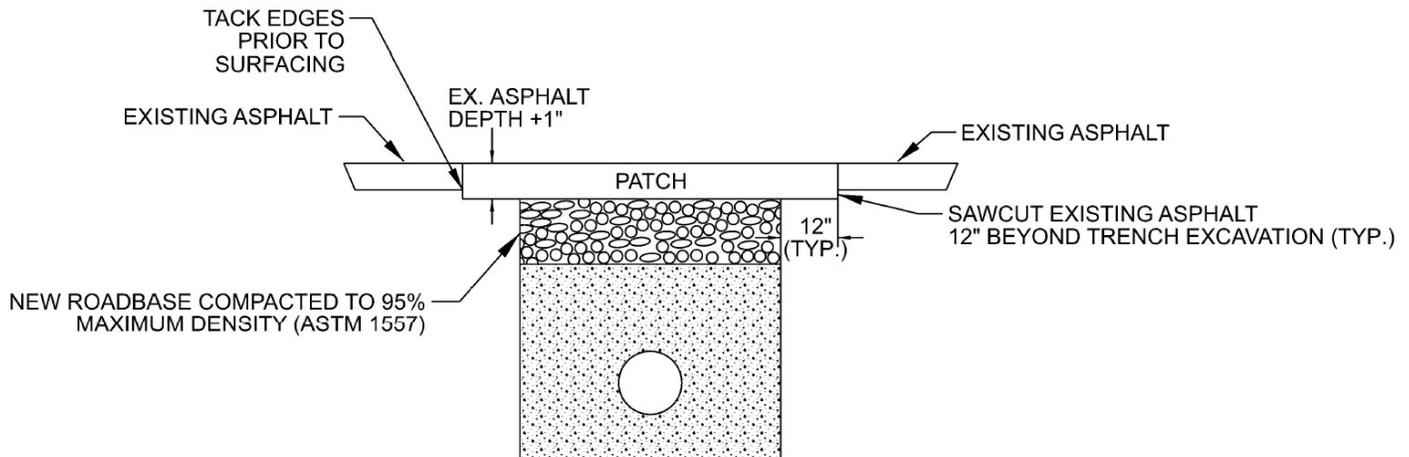


Design Requirements

Excavation/Road Cut Requirements

- 1. Excavation Permit & Agreement.** The applicant must complete the Excavation Permit form, and be familiar with the City of North Salt Lake's Standards and Specifications.
- 2. Access Agreements.** This Permit is only valid for work in City right-of-ways. The Applicant/Contractor must obtain easements and/or access agreements for all work outside of the City right-of-way.
- 3. Bond.** The applicant, in conjunction with their surety company, shall provide a bond in the amount of \$5,000 in paved areas and \$2,000 in unpaved areas. The bond guarantees that the excavated street or public right-of-way is restored or repaired by the applicant in accordance with City specifications. The bond shall be conditioned that the applicant shall guarantee the materials and workmanship for a period of three years from completion of such work. Reasonable wear and tear excepted at the discretion of the City Engineer.
- 4. Activation/Inspection.** Activation of permit must be scheduled with the inspector 24 hours prior to commencing work, 48 hours if work is scheduled on weekends or holidays.
- 5. Noncompliance in work zone.** If permit holder fails to comply with City of North Salt Lake requirements, specifications or instructions pertinent to the permit, subsequent permits may not be issued.
- 6. Traffic Control Plan.** If required, the applicant shall submit a formal traffic control plan which must meet the City's approval as a condition for the issuance of the permit. (Must meet MUTCD standards).
- 7. Trench Backfill.** All trench backfill material shall meet City of North Salt Lake standards. Place material at a maximum lift thickness of 8" before compaction. Backfill material shall be compacted to 95% of the modified proctor density as determined by ASTM 1557. Compaction testing may be required and shall be conducted by a certified materials testing lab at the contractor's/permit holder's expense.
- 8. Compaction Equipment.** Mechanical Compaction equipment required. No manual compaction equipment such as wheel compactor is allowed .
- 8. Flowable Fill.** Use flowable fill in excavations that are too narrow or too small to receive compaction equipment. Provide 28 day 60 psi controlled low strength material as specified in Section 31 05 15 of AP-WA 2012 Standard Specifications.
- 9. Asphalt Saw Cut.** All excavations in roadways shall be saw cut at least 1 foot beyond the excavation in all directions to form a "T" patch. Remove additional pavement to a painted lane stripe, an existing pavement patch, or an edge of pavement if such street feature is within 2' of the second cut.
- 10. Asphalt Patchwork.** All asphalt patchwork shall be done by an approved asphalt paving company. Provide full tack coat coverage on all vertical surfaces. Asphalt patch material for all roadways shall be PG 58-28 ½". Patch thickness shall be existing thickness + 1" (4" min.). Compaction testing may be required and shall be conducted by a certified materials testing lab at the contractor's/permit holder's expense. Do not patch if surface is wet or weather is unsuitable (no frost in ground, 50 degrees F and rising). Asphalt placed between November 15th and March 15th will be considered temporary and will need to be replaced when weather conditions are suitable.
- 11. Painted Traffic Lines and Markings.** Any Painted traffic lines and markings disturbed during the excavation shall be re-painted in the same location with materials meeting City standards.
- 12. Storm Water Pollution Prevention.** Catch basins and storm drain inlets within 300 feet of the excavation location must be protected from dewatering, sediment, excavated materials, and general construction debris.
- 13. Clean Up.** Upon completion of the excavation and patchwork the area shall be swept and returned to original condition.
- 14. Concrete Panels.** Any and all damage to concrete panels, including cracking, coring, boring, breaking, etc. to concrete panels, shall require replacement of the full concrete panel, from joint to joint.

Typical T Patch

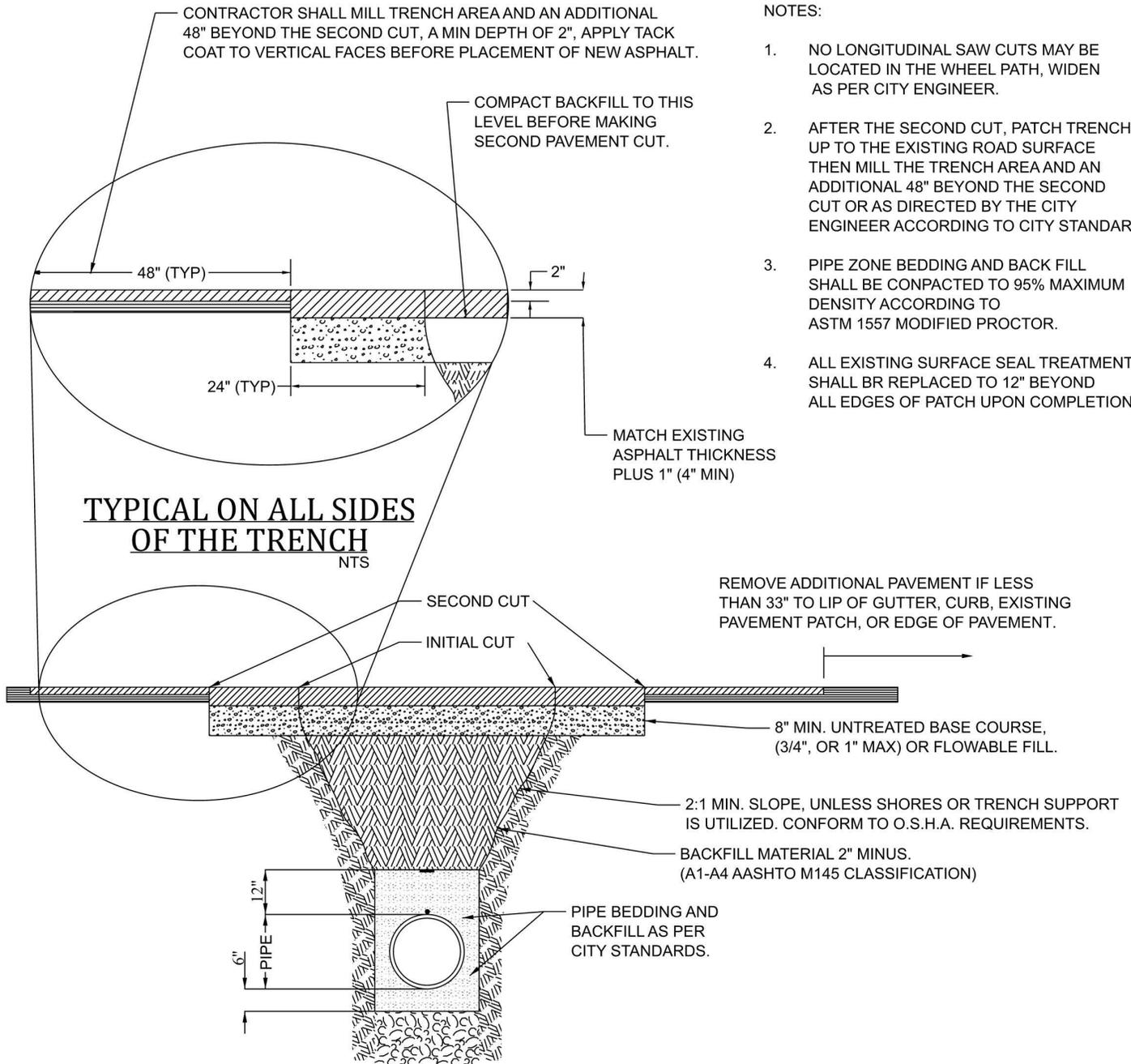


TYPICAL T PATCH
NTS

Trench and Roadway Compaction Requirements

1. **Compaction Requirements.** All trenches within the right-of-way or under paved surfaces must be back-filled with approved granular fill, compacted to 95% of the modified proctor. Sand bedding must be used for bedding on all water lines with no rocks or sharp particles within 12-inches of the pipe.
2. **Compaction Equipment:** All compaction of trenches, roadways, beneath curb and gutter or sidewalks, and all other paved or structural areas must be done with mechanical equipment designed specifically for compaction. Wheel rolling, utilizing a track hoe bucket, or flooding of trenches as a compaction method are not permitted.
3. **Additional requirements:** Any areas which cannot be adequately reached by mechanical compaction equipment (adjacent to manholes, inlet boxes, or other obstructions) must be compacted in lifts using a jumping jack, skid plate, or other small equipment. Such equipment must be used on lifts that are 6" or less.
4. **Compaction & Deflection Testing:** All trenches and roadways will have compaction testing by a certified testing company completed during construction, with passing tests obtained prior to additional fill being placed. All areas are also required to pass a deflection test using a fully-loaded water truck prior to installation of curb and gutter, asphalt, or concrete pavement.

Asphalt Patching Req's For New Roads Less Than 5 Years and Resurfaced Roads Less than 3 Years



NOTES:

1. NO LONGITUDINAL SAW CUTS MAY BE LOCATED IN THE WHEEL PATH, WIDEN AS PER CITY ENGINEER.
2. AFTER THE SECOND CUT, PATCH TRENCH UP TO THE EXISTING ROAD SURFACE THEN MILL THE TRENCH AREA AND AN ADDITIONAL 48" BEYOND THE SECOND CUT OR AS DIRECTED BY THE CITY ENGINEER ACCORDING TO CITY STANDARDS.
3. PIPE ZONE BEDDING AND BACK FILL SHALL BE COMPACTED TO 95% MAXIMUM DENSITY ACCORDING TO ASTM 1557 MODIFIED PROCTOR.
4. ALL EXISTING SURFACE SEAL TREATMENTS SHALL BR REPLACED TO 12" BEYOND ALL EDGES OF PATCH UPON COMPLETION.

TYPICAL TRENCH PATCHING WITH-IN CITY RIGHT-OF-WAY
NTS



City of North Salt Lake
10 East Center Street
North Salt Lake City, Utah 84054
Phone 801.335.8700
www.nslcity.gov



PUBLIC WORKS

