

APPENDIX A

STANDARD DRAWINGS FOR
ROAD & BRIDGE

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APPENDIX A

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SYMBOLS	DEFINITIONS
	SECTION LINE
	CENTER LINE
	CONSTRUCTION CENTER LINE
	PROPERTY OR R/W LINE
	EASEMENT LINE
	MONUMENT LINE
	FENCE
	CONTOUR LINE (FG)
	CONTOUR ELEVATION (FG)
	BANK SLOPES
	STORM DRAIN LINE
	CULINARY WATER LINE
	SECONDARY WATER LINE
	GAS LINE
	TELEPHONE CABLE
	ELECTRIC CABLE
	SANITARY SEWER LINE
	ASPHALT PAVING
	FIRE HYDRANT
	WATER VALVE
	WATER METER
	MANHOLE
	CATCH BASIN
	CLEAN OUT BOX
	POLE & ANCHOR
	STREET LIGHT
	UNDISTURBED EARTH
	STRUCTURE
	GAS METER
	TRAFFIC SIGNAL LIGHT
	SINGLE GUTTER

SYMBOLS	DEFINITIONS
	VALLEY GUTTER
	SINGLE CURB
	CURB & GUTTER
	SIDEWALK
	RAILROAD TRACKS
	GUARD RAIL
	OPEN DITCH, CANAL
	CULVERT
	SECTION CORNER
	SOIL BORING
	MONUMENT
	BM NO. 46 ELEV. 4256.50
	SIGN
	POWER POLE
	TELEPHONE POLE
	DECIDUOUS TREE
	CONIFEROUS TREE
	P.I.
	P.C. OR P.T.
	CONCRETE PVMT. SECTION
	SUBGRADE SEAL SECTION
	SELECT MATERIAL SECTION
	AGGREGATE BASE SECTION
	BITUMINOUS PVMT. SECTION
	OBLITERATE PAVEMENT
	CONCRETE PAVEMENT
	BITUMINOUS PAVEMENT
<u>PROFILE</u>	
	GROUND PROFILE
	ROUND
	ARCH
	BOX
	CULVERT
	P.V.I.
	P.V.C. OR P.V.T.
	GROUNDWATER ELEVATION

DRAWING UPDATED MAY 2014

City of West Jordan, Utah



ABBREVIATIONS AND SYMBOLS ROADWAYS

STANDARD DRAWING

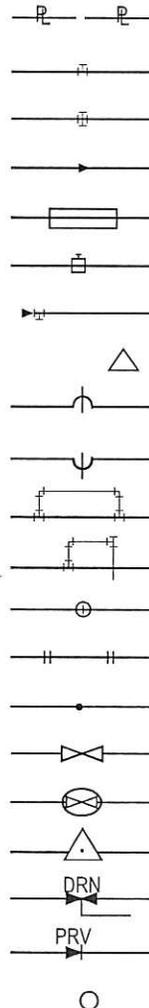
RD-005

STORM DRAIN, SEWER, WATER

ABBREVIATIONS

C.I.P. = CAST IRON PIPE
 D.I.P. = DUCTILE IRON PIPE
 PVC = POLYVINYL CHLORIDE
 MJ = MECHANICAL JOINT
 T.J. = TYTON JOINT
 O.B. = OPEN BELL
 L.B. = LARGE BELL
 WOV = WASH OUT VALVE
 VAL. = VALVE
 HYD. = HYDRANT
 REG. = REGULATOR
 BD. = BEND
 EXT. = EXTEND
 RED. = REDUCER
 FLG. = FLANGED
 ASSY. = ASSEMBLY
 M.W. = MANWAY
 MH = MANHOLE
 SPIG. = SPIGOT
 ADPT. = ADAPTOR
 TBC. = TOP BACK OF CURB
 F.C. = FACE OF CURB
 P.C.C.P. = PRE STRESSED CONCRETE
 CYLINDER PIPE
 C.M.P. CAS. = CORRUGATED METAL PIPE
 CASING
 A.A.V.V. = AUTOMATIC AIR RELEASE
 VALVE
 A.C.A.R.V. = AUTOMATIC COMBINATION
 AIR RELEASE VALVE
 ASPH. = ASPHALT
 A.C. = ASPHALTIC CONCRETE
 CONC. = CONCRETE
 GALV. = GALVINIZED IRON
 COP. = COPPER
 PRV. = PRESSURE REDUCING VALVE
 GV. = GATE VALVE
 BFV. = BUTTERFLY VALVE
 WOV. = WASH OUT VALVE

SYMBOLS



DEFINITIONS

PROPERTY LINES (100' MAP, DESIGN DRAWINGS)
 WATER MAIN TEE
 WATER MAIN CROSS
 REDUCER
 REGULATOR
 TAPPING SLEEVE AND VALVE
 PLUG AND CLAMP
 CONCRETE THRUST BLOCK
 PIPE OVER
 PIPE UNDER
 BYPASS
 RUN-AROUND
 CIRCLED VALVE - (SYSTEM NORMALLY CLOSED)
 OFFSET OR VERTICAL BENDS
 WASH OUT VALVE
 GATE VALVE
 BUTTERFLY VALVE
 AIR RELEASE VALVES
 MANUAL DRAIN VALVE
 PRESSURE REDUCING VALVE
 SEWER CLEANOUT

DRAWING UPDATED MAY 2014

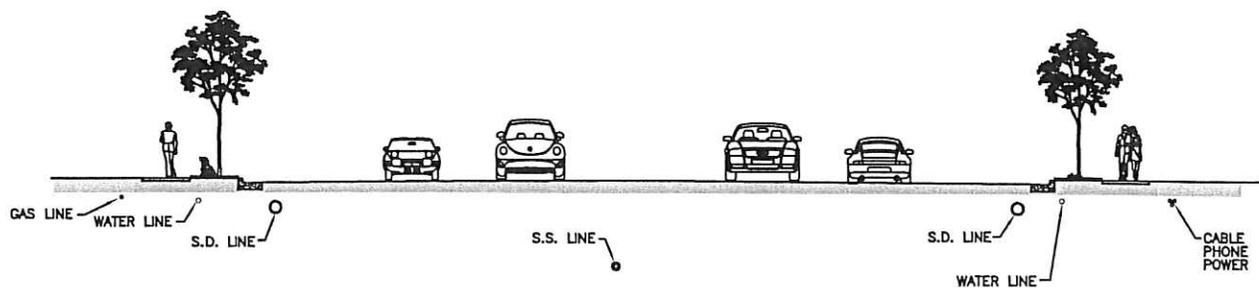
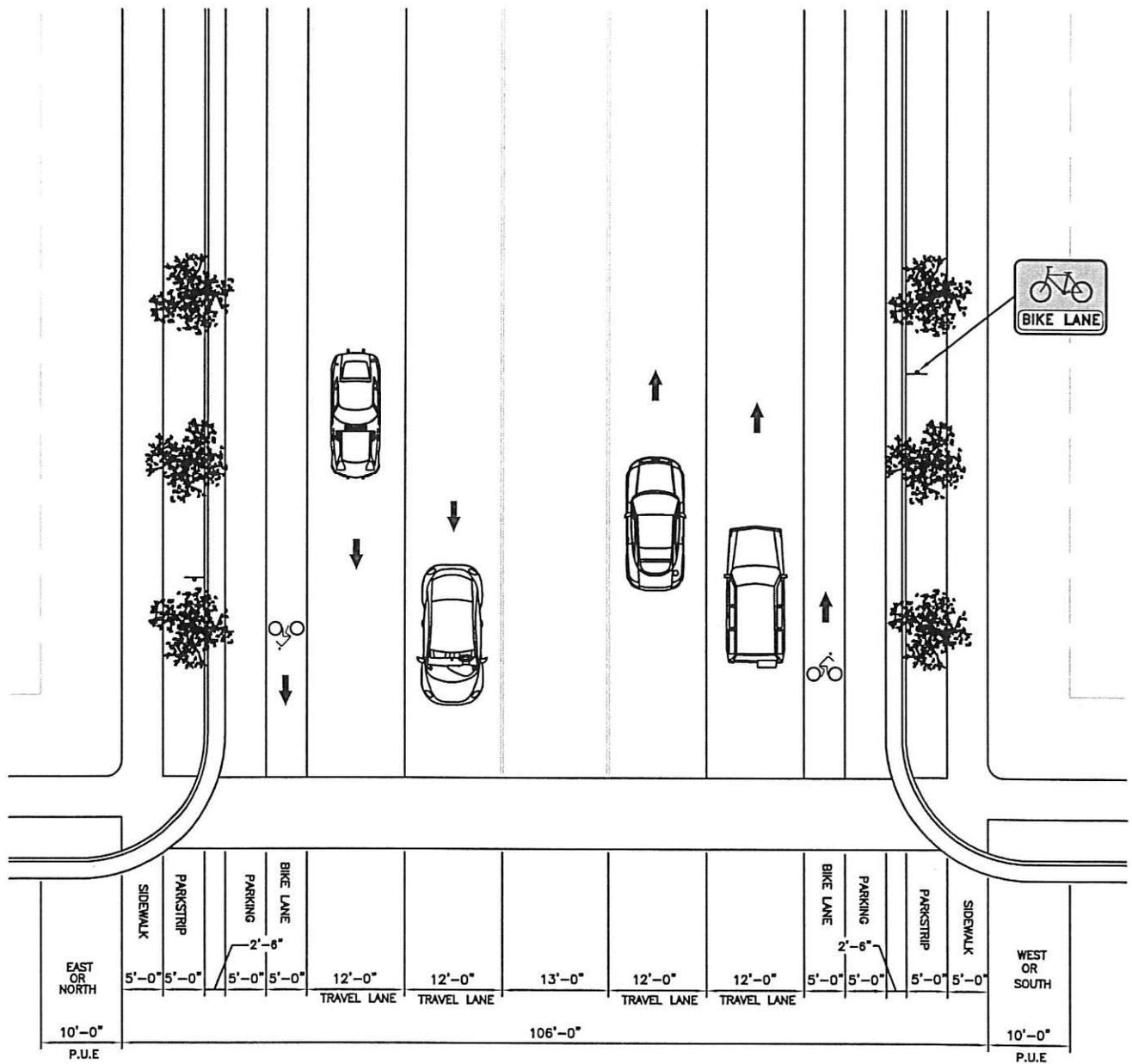
City of West Jordan, Utah



ABBREVIATIONS AND SYMBOLS STORM DRAIN, SEWER, AND WATER

STANDARD DRAWING

RD-010



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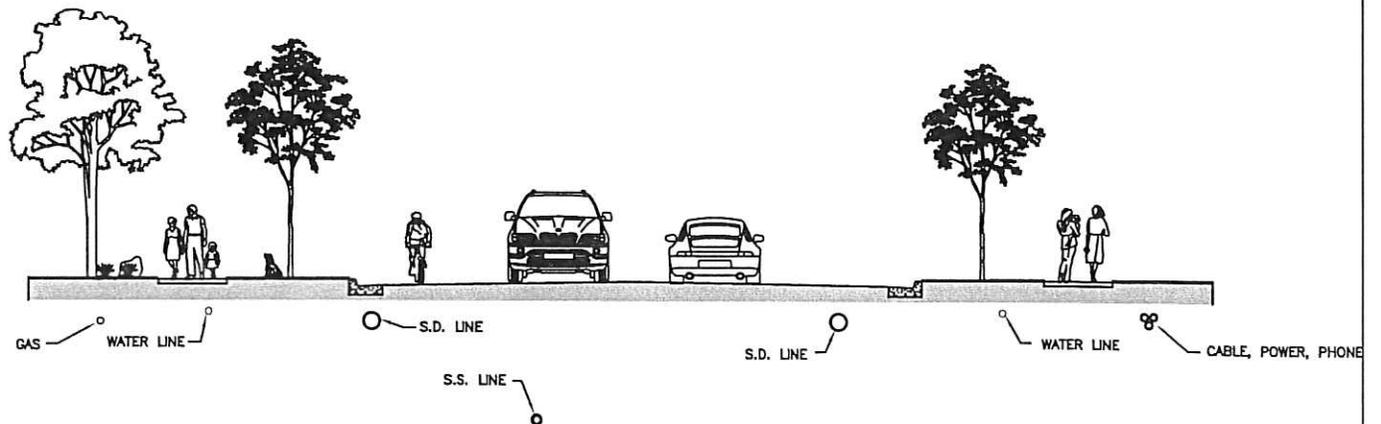
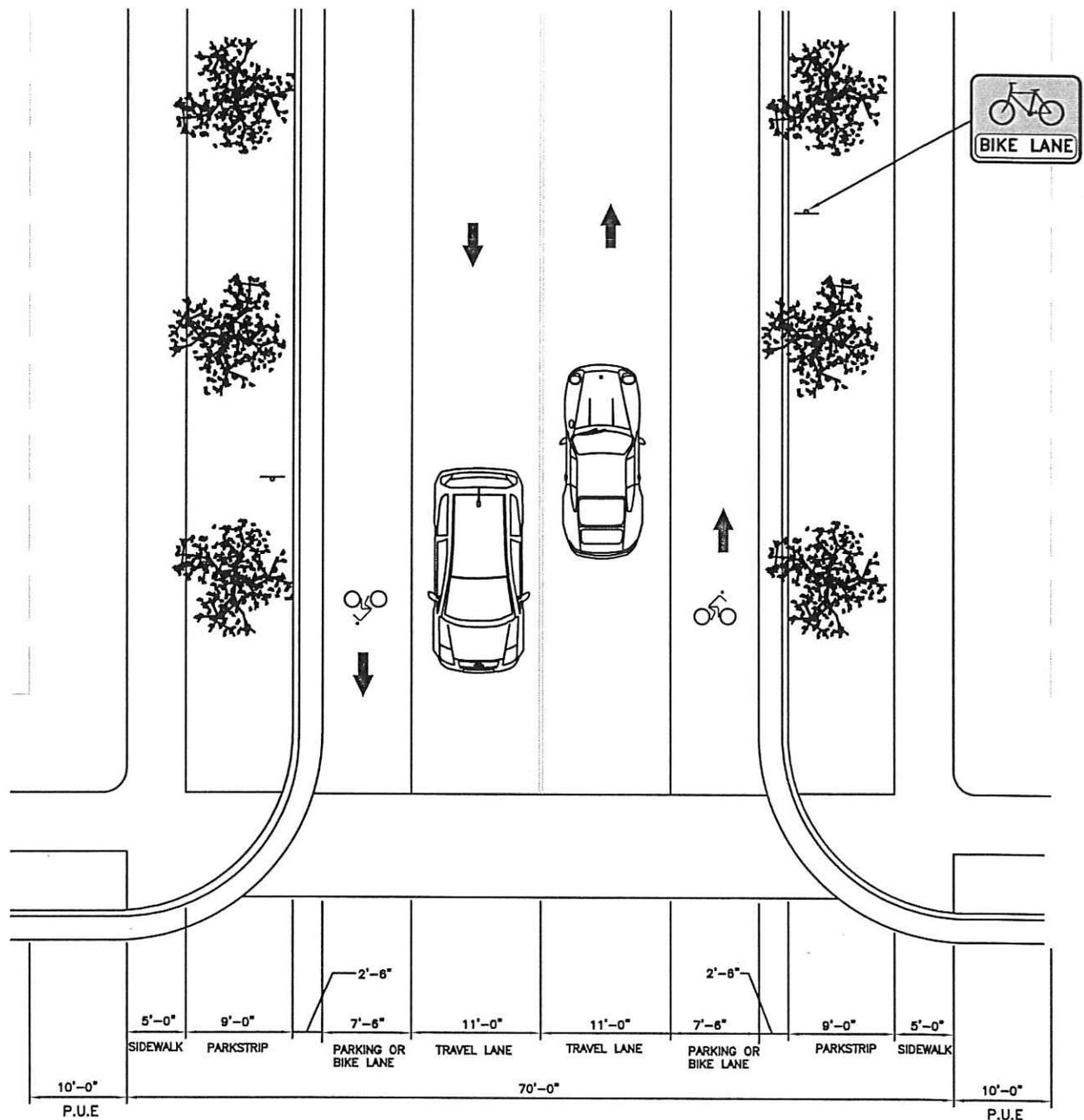
City of West Jordan, Utah



ARTERIAL ROAD CROSS SECTION (EXISTING AS OF 2006)

STANDARD DRAWING

RD-020



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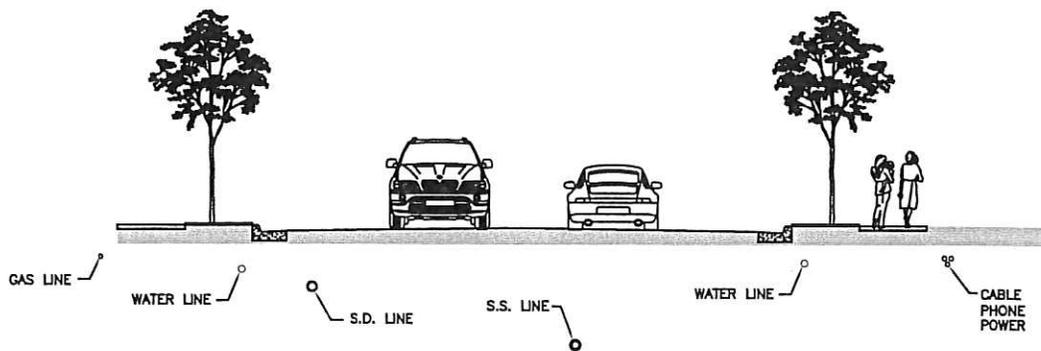
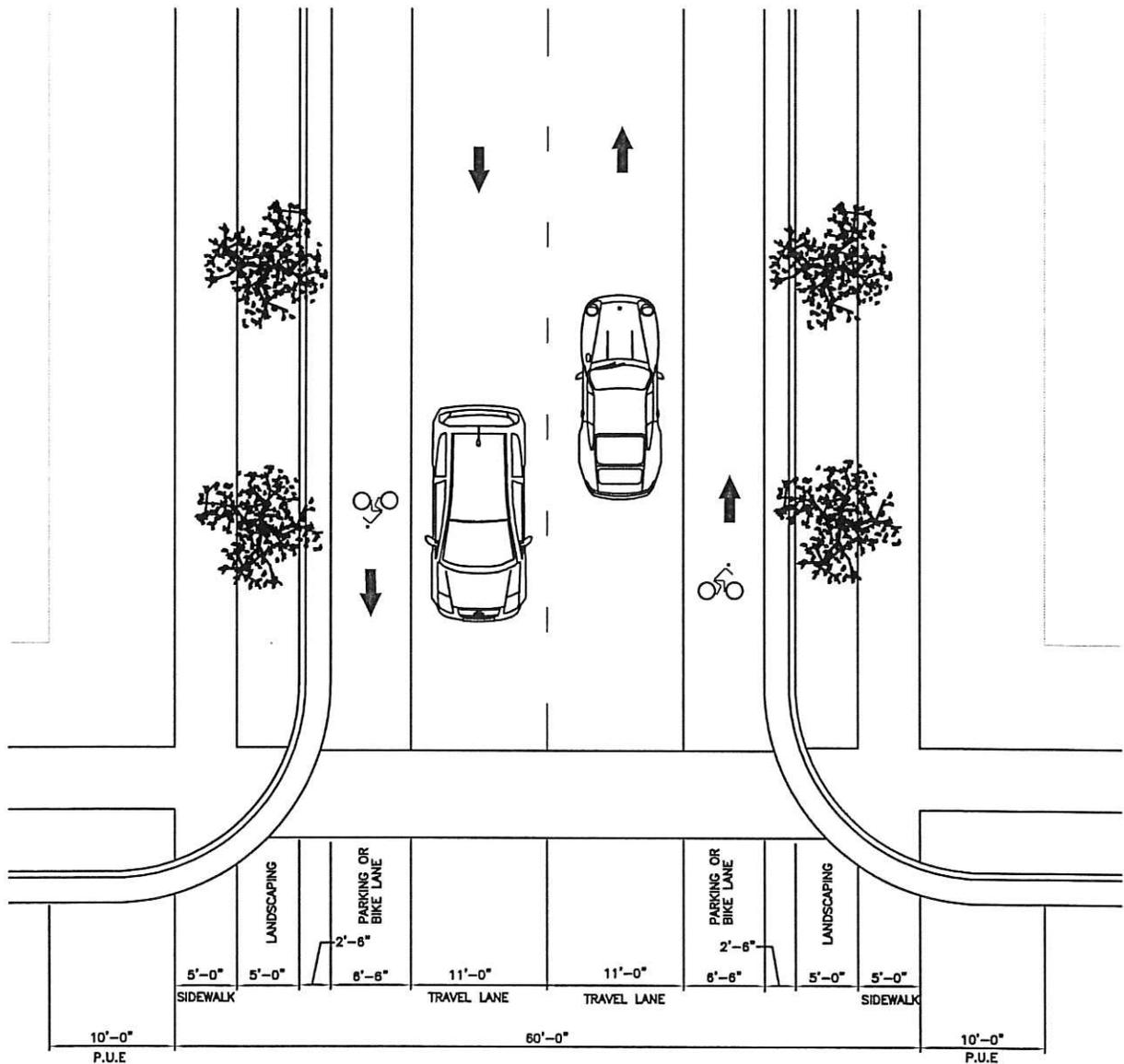
City of West Jordan, Utah



COLLECTOR STREET CROSS SECTIONS (TYPICAL)

STANDARD DRAWING

RD-030



Issues:

- 2 Lane Cross-Section (1 Lane In Each Direction)
- Bike Lanes Striped
- 5' Park Strip w/Trees Every 30 feet
- 5' Sidewalk
- Road has Houses Facing the Street
- Typical Capacity of 2,500 Vehicles/Day (quality of Life not Physical Capacity)
- Posted Speed Limit is 30 mph
- Function is Access to Abutting Property and Local Traffic Movement

NOTE:
TYPICAL CURB DETAIL RD-100 TYPE A

DRAWING UPDATED MAY 2014

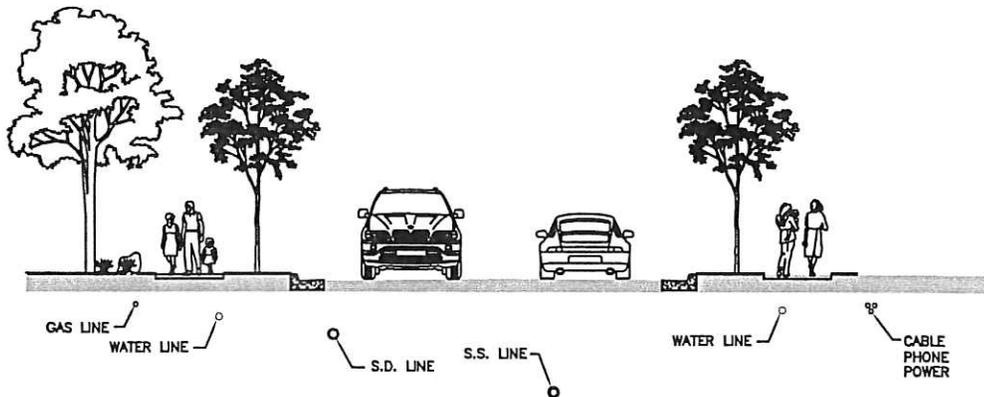
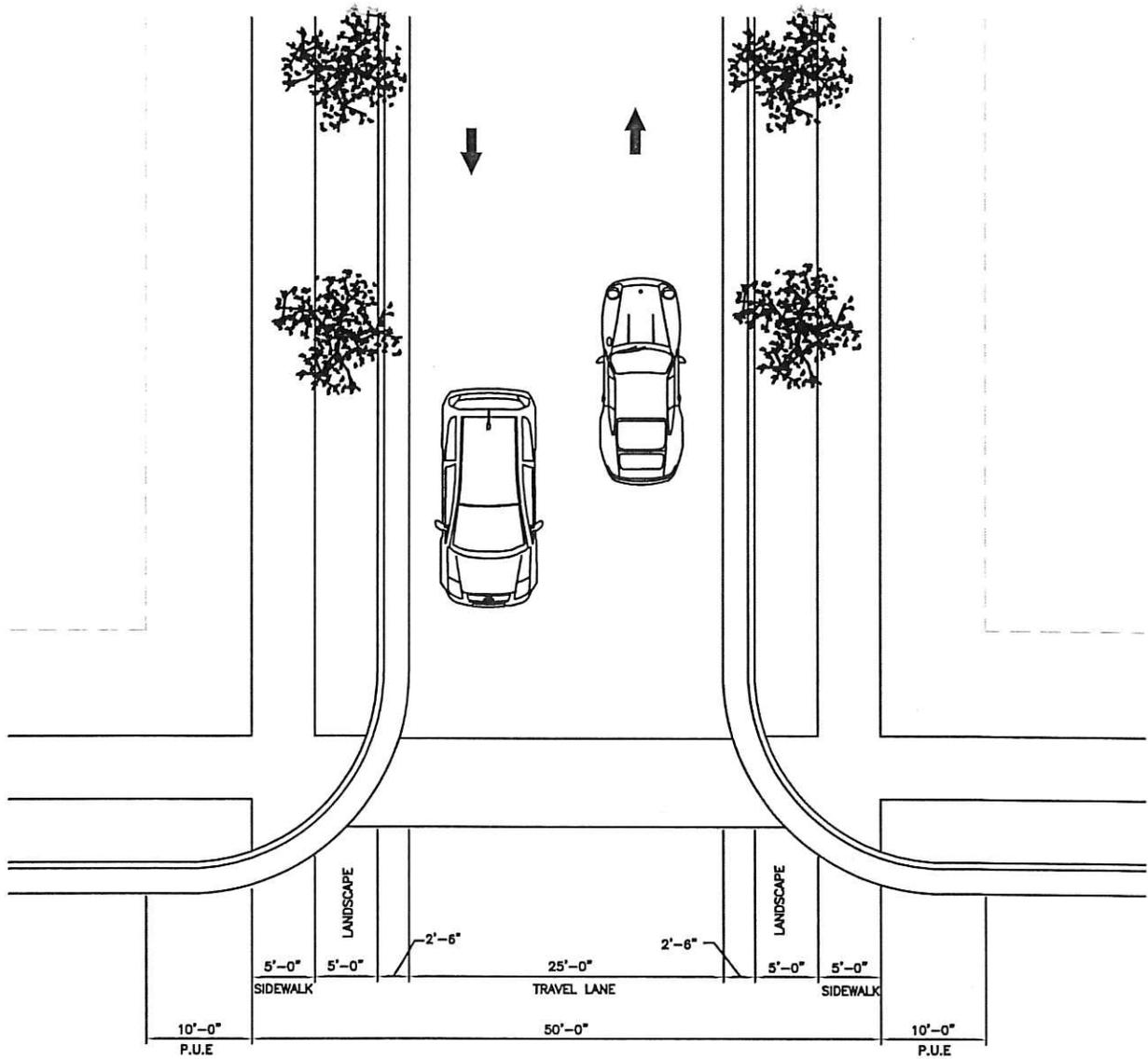
City of West Jordan, Utah



RESIDENTIAL COLLECTOR CROSS SECTION (60' R/W 2 LANE)

STANDARD DRAWING

RD-035



Issues:

- 2 Lane Cross-Section (1 Lane in Each Direction)
- No Shoulder or Bike Lanes
- 5' Park Strip w/Trees Every 30 feet
- 5' Sidewalk
- Road has Houses Facing the Street
- Typical Capacity of 1,500 Vehicles/Day (quality of Life not Physical Capacity)
- Posted Speed Limit is 25 mph
- Function is Access to Abutting Property and Local Traffic Movement

NOTE:
TYPICAL CURB DETAIL RD-100 TYPE A

DRAWING UPDATED MAY 2014

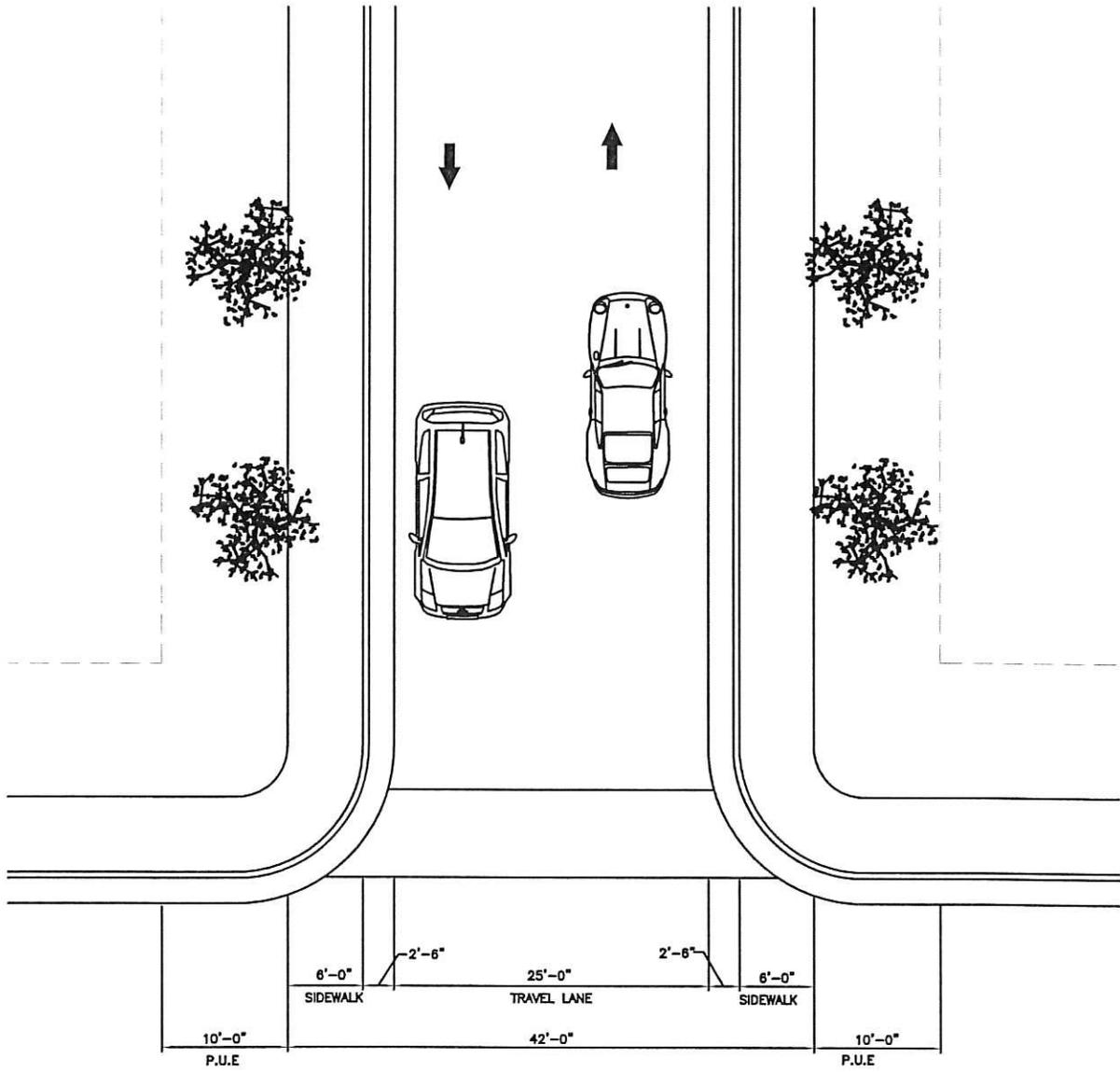
City of West Jordan, Utah



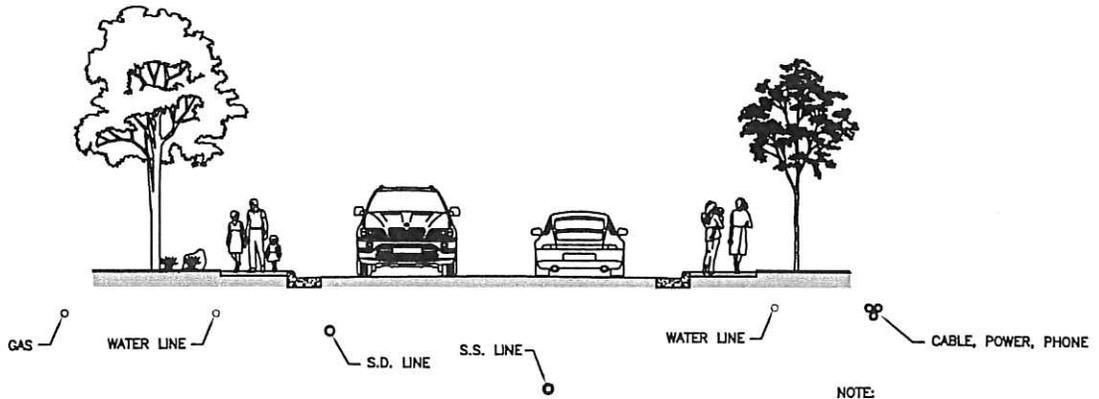
LOCAL STREET CROSS SECTION (50' R/W 2 LANE)

STANDARD DRAWING

RD-040



NOTE:
1. MAY INCLUDE A LANDSCAPE MEDIAN



NOTE:
TYPICAL CURB DETAIL RD-100 TYPE A

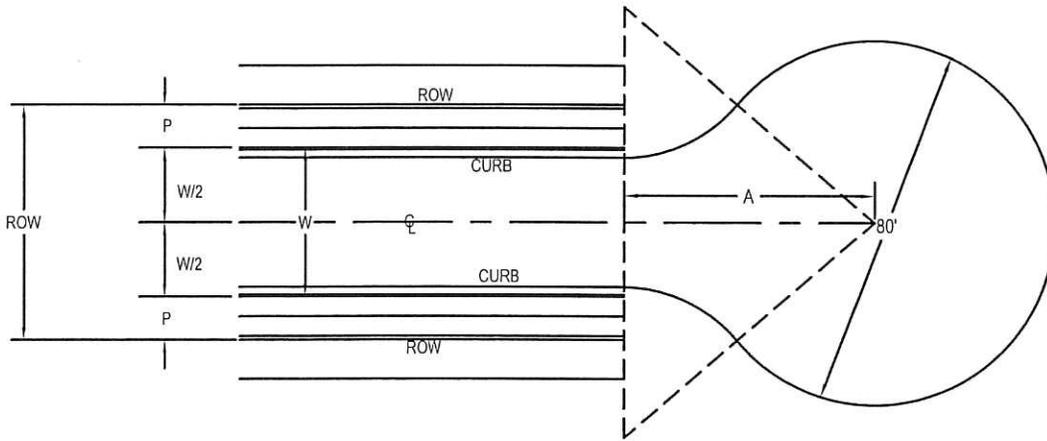
DRAWING UPDATED MAY 2014

City of West Jordan, Utah



PRIVATE STREET CROSS SECTION

STANDARD DRAWING
RD-65



W FT.	W/2 FT.	P FT.	A FT.
30'	15' MIN	VARIES	64.81

1. MINIMUM 3" ASPHALT PAVING
OVER 6" COMPACTED ROADBASE.

DRAWING UPDATED MAY 2014

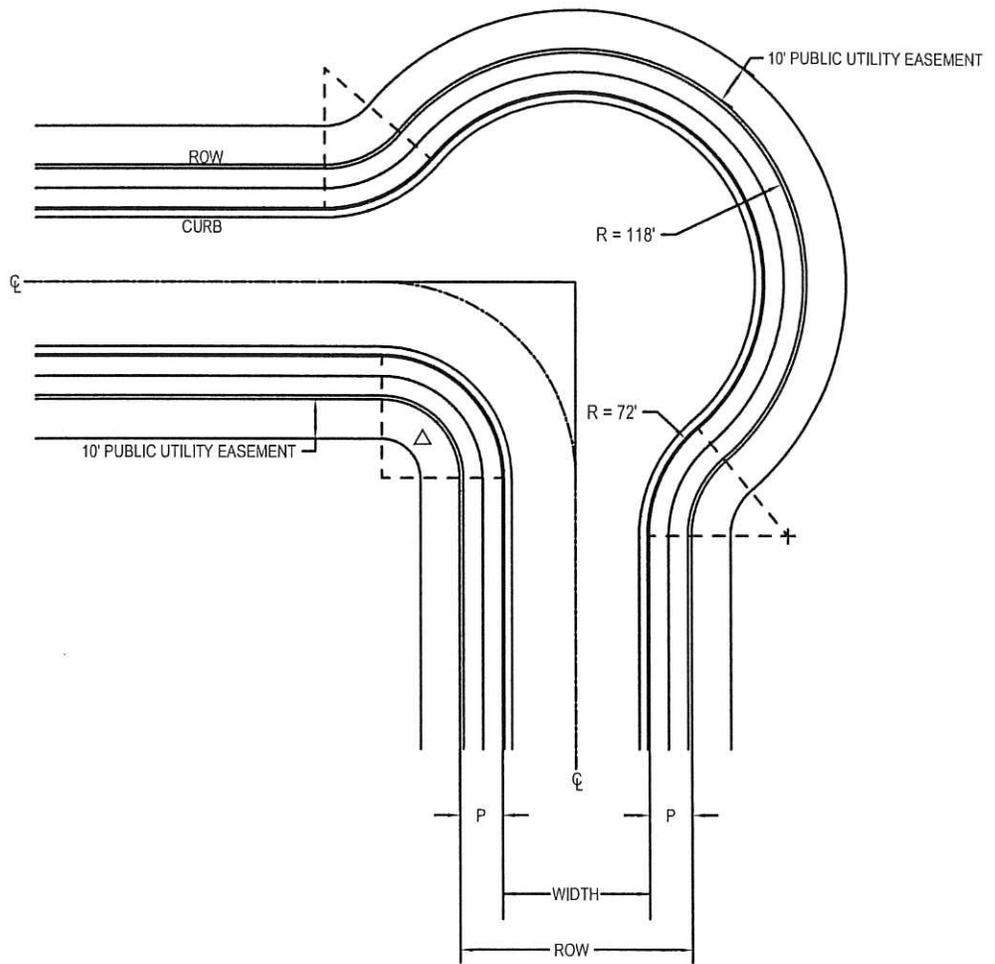
City of West Jordan, Utah



TEMPORARY EMERGENCY VEHICLE TURN AROUND

STANDARD DRAWING

RD-071



NOTES

WHEN Δ IS LESS THAN 72° A SMOOTH CURVE WITH A MINIMUM RADIUS CONFORMING WITH THE STANDARDS FOR THE PARTICULAR GEOMETRIC SECTION SHALL BE USED.

DRAWING UPDATED MAY 2014

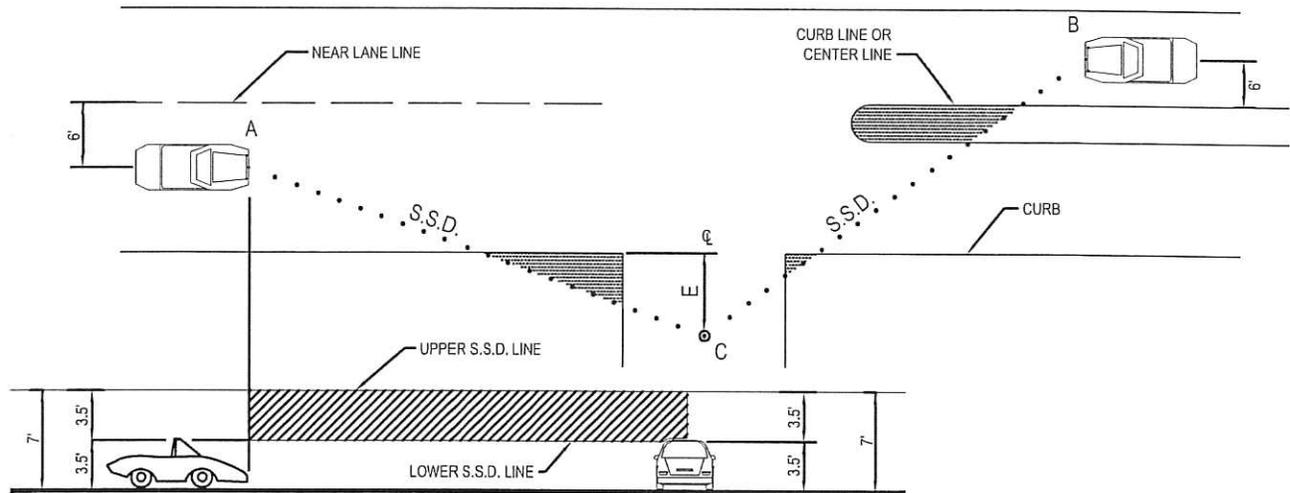
City of West Jordan, Utah



ROAD INTERSECTION "L" SHAPE

STANDARD DRAWING

RD-75



DESIGN SPEED	MIN. S.S.D.
	For left turns at stop
20	225'
25	280'
30	335'
35	390'
40	445'
45	500'
50	555'
55	610'
60	665'

E = 8' at driveways and 18' at public road intersections.
(Lesser values to 0' will only be considered under special situations).

Height of eye/object at points A and B and C = 3.5' Lower limit and 7' upper limit.

S.S.D. = Minimum stopping sight distance

 Limits of vertical sight zone
  Limits of horizontal sight zone

Design engineer shall abide by all guidelines stated in the AASHTO policy on Geometric Design of Highway and streets.

There shall be no sight distance obstruction in either the horizontal or vertical sight zones. Sight distance obstruction are objects that may block the view of motorists including utility vents, hills, walls, signs, street furniture, mature landscaping*, horizontal and vertical road curvatures etc., in the combined horizontal and vertical sight zones. Individual elements (other than deciduous street trees) shall be no thicker than 12 inches nor spaced closer than 100 feet apart at intersections or 50 feet apart at driveways.

City Policy For Evaluating Sight Distance On All Proposed Projects:

1. The developers engineer shall evaluate all proposed intersections and driveways against the minimum S.S.D. criteria for grading plans, tract maps, and landscape plans.
2. If any locations are identified with an S.S.D. less than the minimum S.S.D. for any of the orders of preference, the developer's engineer shall bring these locations to the attention of the city's project engineer by identifying the exact length of S.S.D. that is available as to each order of preference and the speed associated with same and the obstruction limiting the S.S.D. shall be identified. The developer's engineer shall also note on the plans what improvements would be necessary to obtain the 'minimum' S.S.D.

*NOTE:

It is especially critical that 'mature landscaping' be considered in this S.S.D. criteria not just the barren ground.

DRAWING UPDATED MAY 2014

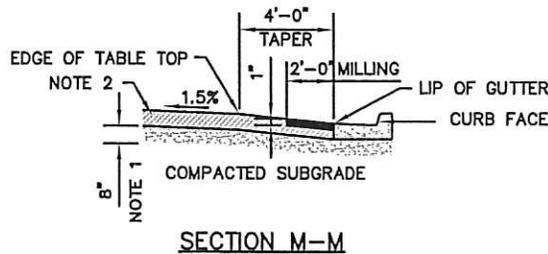
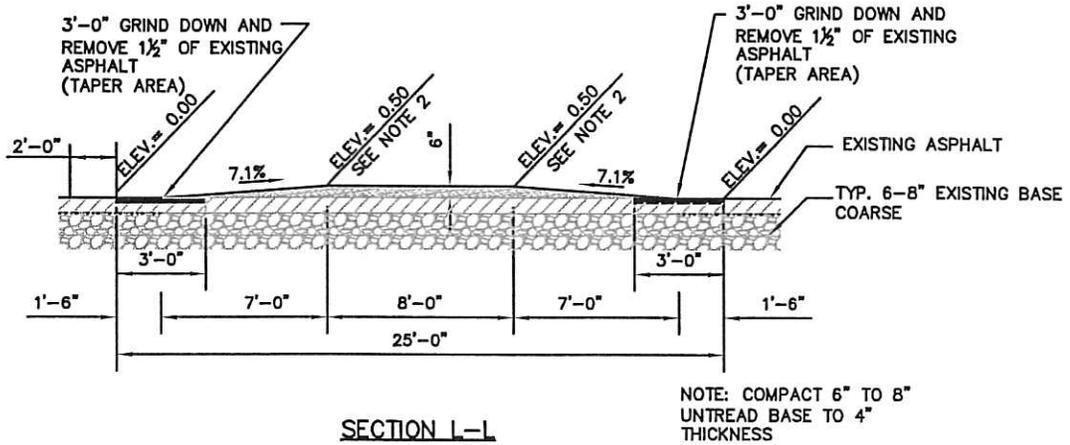
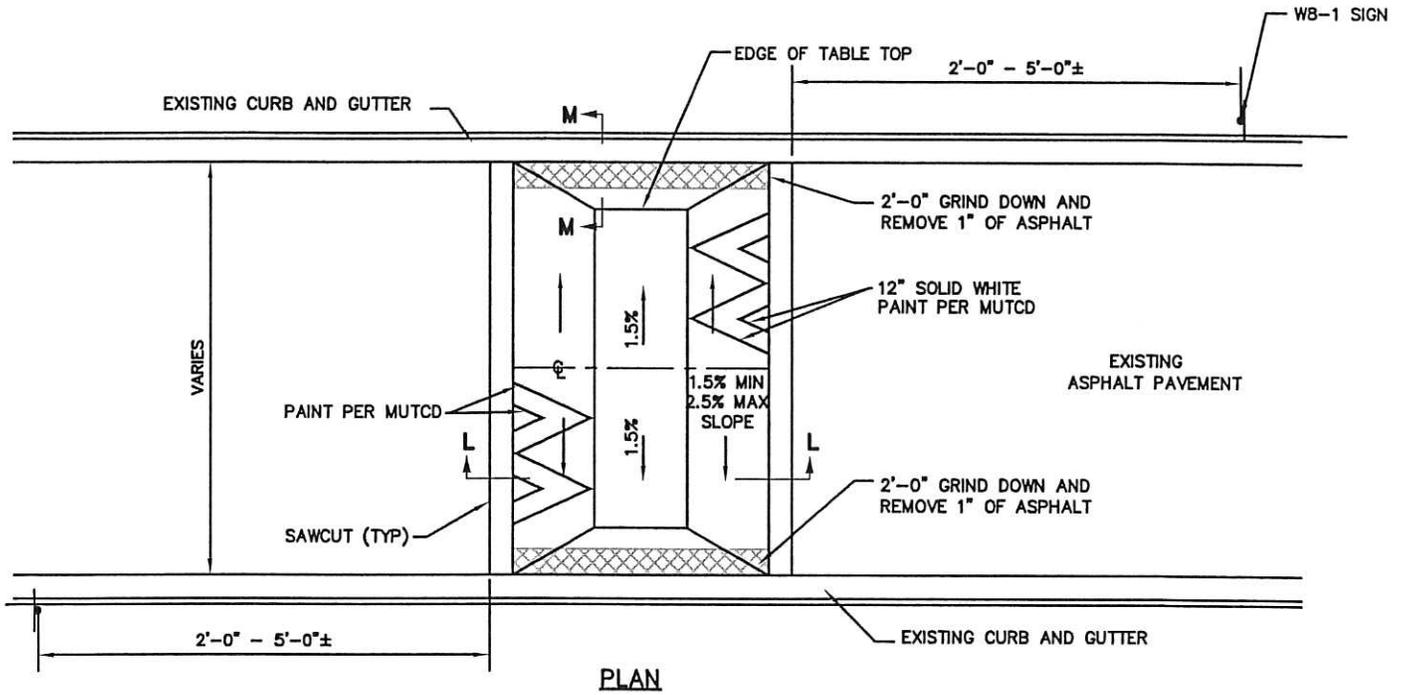
City of West Jordan, Utah



STOPPING SIGHT DISTANCE REQUIRED AT INTERSECTIONS AND DRIVEWAYS

STANDARD DRAWING

RD-85



STANDARD ASPHALT

DRAWING UPDATED OCTOBER 2015

City of West Jordan, Utah



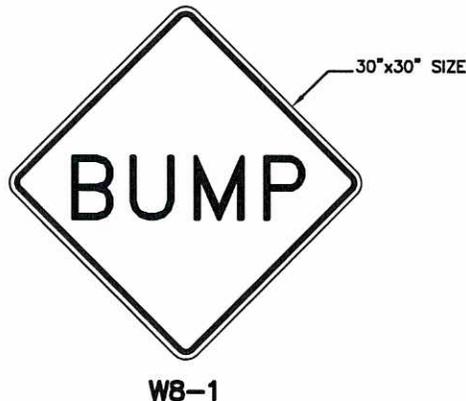
ASPHALT NEIGHBORHOOD SPEED TABLE

STANDARD DRAWING

RD-86

ASPHALT SPEED TABLE

1. UNTREATED BASE COURSE; PROVIDE CLASS A UNTREATED BASE COURSE SPECIFIED IN APWA SECTION 32 11 23.
 - A. DO NOT USE GRAVEL AS A SUBSTITUTE FOR UNTREATED BASE COURSE WITHOUT ENGINEER'S PERMISSION.
 - B. PLACE MATERIAL PER APWA SECTION 32 05 10.
 - C. COMPACT PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8 INCHES WHEN USING RIDING COMPACTION EQUIPMENT OR 6 INCHES WHEN USING HAND HELD COMPACTION EQUIPMENT.
2. ASPHALT PAVEMENT: USE HOT WEATHER ASPHALT CONCRETE PATCH MATERIAL SPECIFIED IN APWA SECTION 33 05 25.
 - A. INSTALL IN LIFTS NO GREATER THAT 3 INCHES AFTER COMPACTION.
 - B. COMPACT EACH LIFT TO 94 PERCENT OF ASTM D 2041 (RICE METHOD) PLUS OR MINUS 2 PERCENT.
3. TACK COAT: APWA SECTION 32 12 13.13 CLEAN ALL VERTICAL SURFACES ADJACENT TO THE PATCH. APPLY FULL COVERAGE TACK COAT.
4. ASPHALT PAVEMENT JOINTS: PROVIDE A NEAT STRAIGHT JOINT BETWEEN EXISTING AND NEW ASPHALT CONCRETE. SAW-CUT JOINT IF EXISTING PAVEMENT EXCEEDS 2 INCHES IN THICKNESS PAVEMENT.
5. JOINT REPAIR: IF A CRACK OCCURS AT THE CONNECTION TO EXISTING PAVEMENT OR AT ANY STREET FIXTURE, SEAL THE CRACK PER APWA SECTION 32 01 17.
6. MILLING: APWA SECTION 02 41 14
 - A. REMOVE COMPACTED MILLING ON PREPARED SURFACES
 - B. MILL AROUND GUTTER LIP RADII TO SPECIFIED DEPTH PRIOR TO PAVING.
7. PAINT: PROVIDE ALKYD RESIN PAINT AS SPECIFIED IN APWA SECTION 32 17 23. BROOM OR FLUSH THE SURFACE TO REMOVE DIRT, LOOSE STONES, OR OTHER FOREIGN MATERIAL IMMEDIATELY PRIOR TO APPLYING. APPLY PER APWA SECTION 32 17 23 AND CONTRACT DRAWINGS.



DRAWING UPDATED OCTOBER 2015

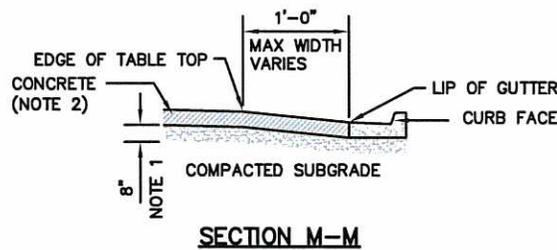
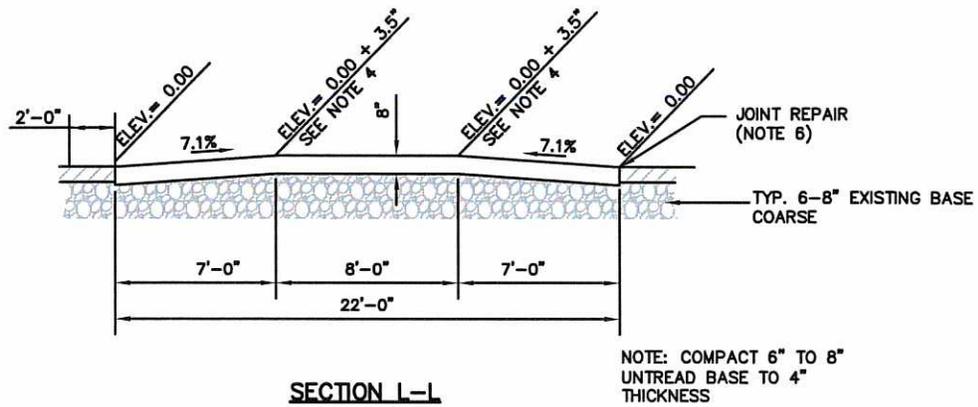
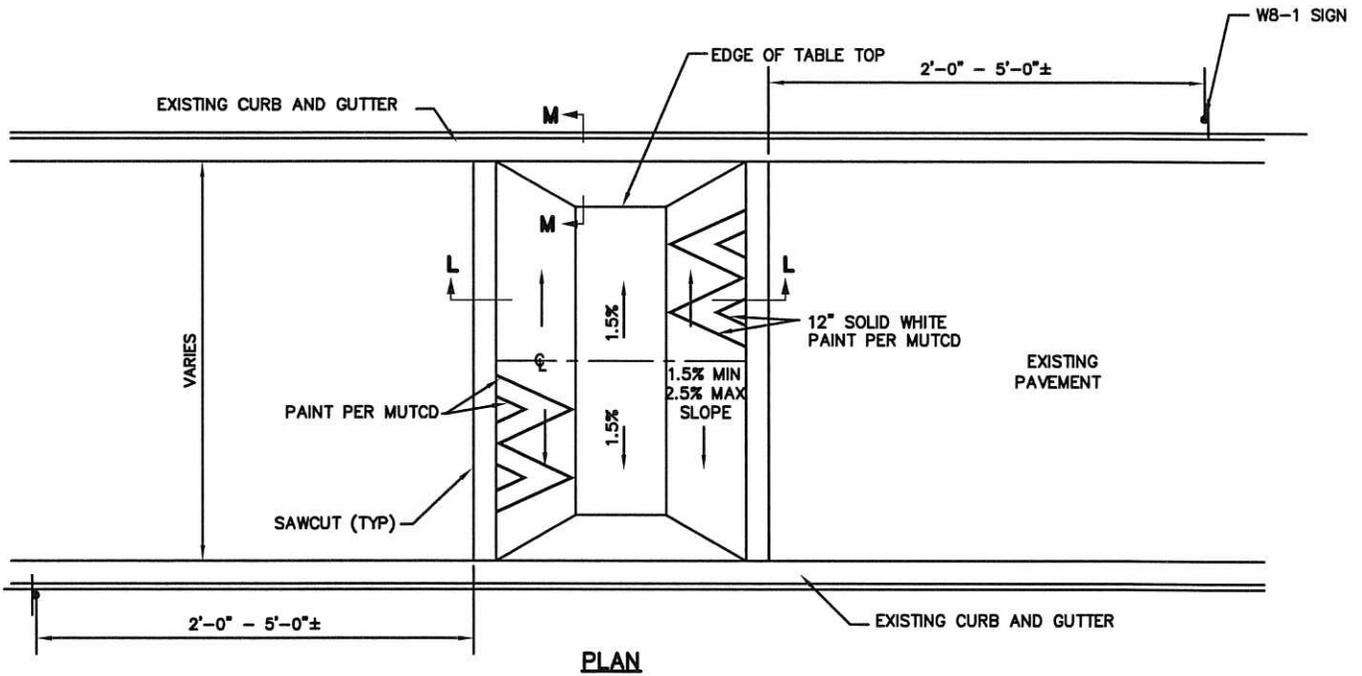
City of West Jordan, Utah



ASPHALT NEIGHBORHOOD SPEED TABLE

STANDARD DRAWING

RD-86



STANDARD CONCRETE

DRAWING UPDATED OCTOBER 2015

City of West Jordan, Utah



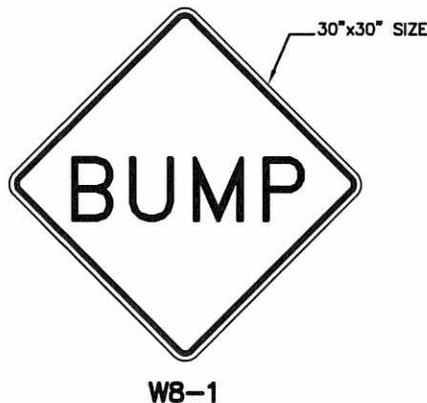
CONCRETE NEIGHBORHOOD SPEED TABLE

STANDARD DRAWING

RD-87

CONCRETE SPEED TABLE

1. UNTREATED BASE COURSE; PROVIDE CLASS A UNTREATED BASE COURSE SPECIFIED IN APWA SECTION 32 11 23.
 - A. DO NOT USE GRAVEL AS A SUBSTITUTE FOR UNTREATED BASE COURSE WITHOUT ENGINEER'S PERMISSION.
 - B. PLACE MATERIAL PER APWA SECTION 32 11 23.
 - C. COMPACT PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8 INCHES WHEN USING RIDING COMPACTION EQUIPMENT OR 6 INCHES WHEN USING HAND HELD COMPACTION EQUIPMENT.
2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - A. IF NECESSARY, PROVIDE CONCRETE THAT ACHIEVES DESIGN STRENGTH IN LESS THAN 7 DAYS. USE CAUTION; HOWEVER, AS CONCRETE CRAZING (SPIDER CRACKS) MAY DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
 - B. PLACE CONCRETE PER APWA SECTION 03 30 10
 - C. PROVIDE 1/2 INCH RADIUS ON CONCRETE EDGES EXPOSED TO PUBLIC VIEW.
 - D. CURE CONCRETE PER APWA SECTION 03 39 00 WITH TYPE ID CLASS A OR B (CLEAR WITH FUGITIVE DYE)
MEMBRANE FORMING COMPOUND UNLESS SPECIFIED OTHERWISE.
3. EXPANSION JOINTS:
 - A. MAKE EXPANSION JOINTS VERTICAL, FULL DEPTH.
 - B. PROVIDE F1 JOINT FILLER MATERIAL 1/2 INCH WIDE, APWA SECTION 32 13 73.
 - C. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE.
4. CONTRACTION JOINT: MAKE CONTRACTION JOINTS VERTICAL 1/8 INCH WIDE AND 1/3 SLAB THICKNESS.
5. FINISH: BROOMED.
6. JOINT REPAIR: IF A CRACK OCCURS AT THE CONNECTION TO EXISTING PAVEMENT, SEAL THE CRACK PER APWA SECTION 32 01 17.



DRAWING UPDATED OCTOBER 2015

City of West Jordan, Utah



CONCRETE NEIGHBORHOOD SPEED TABLE

STANDARD DRAWING

RD-87

NOTES:

1. UNTREATED BASE COURSE: USE CLASS A UNTREATED BASE COURSE GRADE 1 OR GRADE 3/4 PER APWA SECTION 32 11 23. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.

A. PLACE BACKFILL MATERIAL PER APWA SECTION 32 05 10.

B. COMPACT BACKFILL MATERIAL PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER.

2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.

A. IF NECESSARY, PROVIDE CONCRETE WHICH ACHIEVES DESIGN STRENGTH IN 72 HOURS (3 DAYS). USE CAUTION, HOWEVER, AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.

B. PLACE CONCRETE PER APWA SECTION 03 30 10 .

C. PROVIDE 1/2 INCH RADIUS ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE SHOWN.

D. APPLY A SEALING/CURING COMPOUND PER APWA SECTION 03 39 00. (TYPE ID CLASS A; CLEAR WITH FUGITIVE DYE)

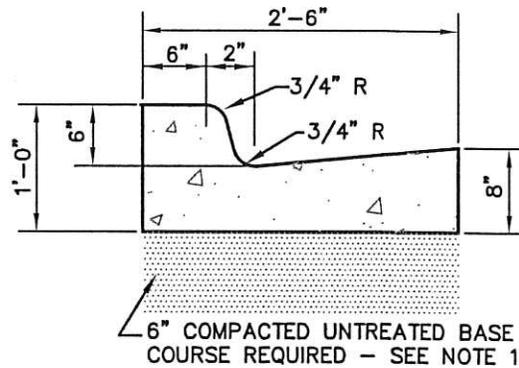
3. EXPANSION JOINTS:

A. PROVIDE FULL DEPTH 1/2 INCH THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE. PLACE EXPANSION JOINTS EVERY 50 FEET.

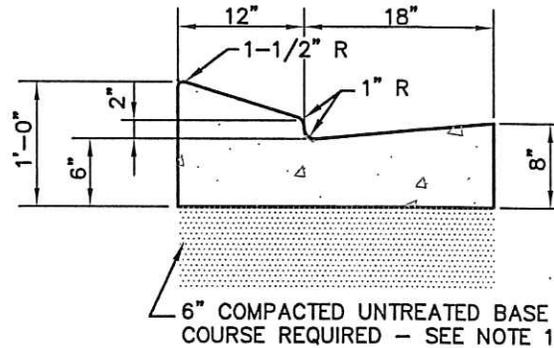
B. EXPANSION JOINTS ARE NOT REQUIRED IN SLIP FORM WORK EXCEPT AT THE START OR END OF THE WORK DAY, AND AT THE START OR END OF A STREET INTERSECTION CURB RADIUS RETURN.

4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8" WIDE, AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8 INCHES THICK. PLACE CONTRACTION JOINTS EVERY 10 FEET.

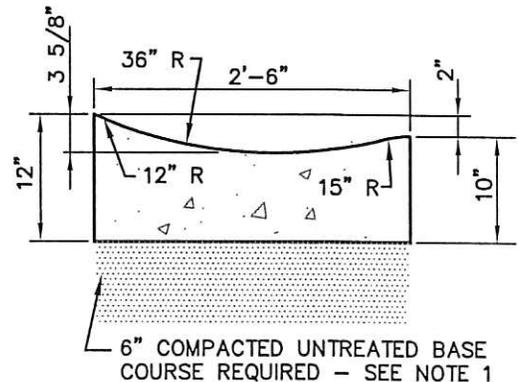
5. ADD SEWER STUB TACKS INTO CURB WHERE LATERAL CROSSES UNDER CURB



TYPE A CURB & GUTTER
ALL NEW CONSTRUCTION



TYPE B CURB & GUTTER
REPLACEMENT ONLY



TYPE C CURB & GUTTER
REPLACEMENT ONLY

DRAWING UPDATED JUNE 2014

City of West Jordan, Utah



STANDARD CURB & GUTTER

STANDARD DRAWING

RD-100

NOTES:

1. UNTREATED BASE COURSE: USE CLASS A UNTREATED BASE COURSE GRADE 1 OR GRADE 3/4 PER APWA SECTION 32 11 23. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.

A. PLACE BACKFILL MATERIAL PER APWA SECTION 32 05 10.

B. COMPACT BACKFILL MATERIAL PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER.

2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.

A. IF NECESSARY, PROVIDE CONCRETE WHICH ACHIEVES DESIGN STRENGTH IN 72 HOURS (3 DAYS). USE CAUTION, HOWEVER, AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.

B. PLACE CONCRETE PER APWA SECTION 03 30 10.

C. PROVIDE 1/2 INCH RADIUS ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE SHOWN.

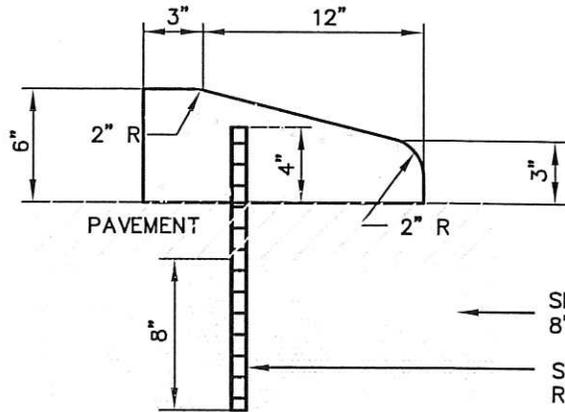
D. APPLY A SEALING/CURING COMPOUND PER APWA SECTION 03 39 00. (TYPE ID CLASS A; CLEAN WITH FUGITIVE DYE)

3. EXPANSION JOINTS:

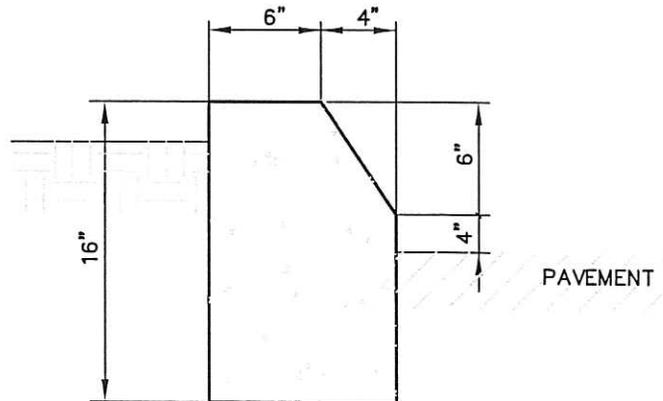
A. PROVIDE FULL DEPTH 1/2 INCH THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE. PLACE EXPANSION JOINTS EVERY 50 FEET.

B. EXPANSION JOINTS ARE NOT REQUIRED IN SLIP FORM WORK EXCEPT AT THE START OR END OF THE WORK DAY, AND AT THE START OR END OF A STREET INTERSECTION CURB RADIUS RETURN.

4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8" WIDE, AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8 INCHES THICK. PLACE CONTRACTION JOINTS EVERY 10 FEET.



TYPE D CURB



TYPE E CURB

DRAWING UPDATED JUNE 2014

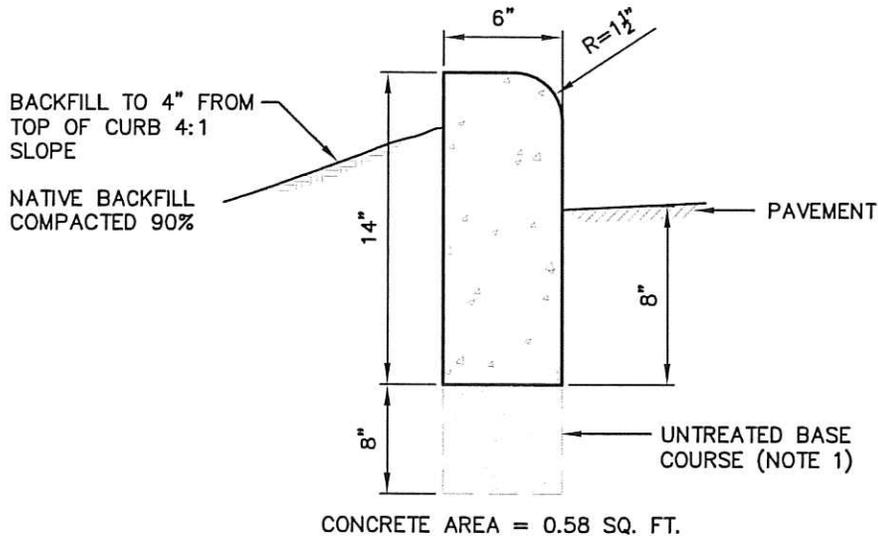
City of West Jordan, Utah



STANDARD MEDIAN CURB

STANDARD DRAWING

RD-105



NOTES:

1. UNTREATED BASE COURSE: PROVIDE CLASS "A" UNTREATED BASE MATERIAL SPECIFIED IN APWA SECTION 32 11 23.
 - A. DO NOT USE GRAVEL AS A SUBSTITUTE FOR UNTREATED BASE COURSE WITHOUT ENGINEER'S PERMISSION.
 - B. PLACE BACKFILL MATERIAL PER APWA SECTION 32 05 10.
 - C. COMPACT PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8 INCHES WHEN USING RIDING COMPACTION EQUIPMENT OR 6 INCHES WHEN USING HAND HELD COMPACTION EQUIPMENT.
2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - A. IF NECESSARY, PROVIDE CONCRETE THAT ACHIEVES DESIGN STRENGTH IN LESS THAN 7 DAYS. USE CAUTION; HOWEVER, AS SPIDER CRACKS MAY DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
 - B. PLACE CONCRETE PER APWA SECTION 03 30 10.
 - C. PROVIDE 1/2 INCH RADIUS ON CONCRETE EDGES EXPOSED TO PUBLIC VIEW.
 - D. CURE CONCRETE PER APWA SECTION 03 39 00 WITH TYPE ID CLASS A (CLEAR WITH FUGITIVE DYE) MEMBRANE FORMING COMPOUND UNLESS SPECIFIED OTHERWISE.
3. EXPANSION JOINT: MAKE EXPANSION JOINTS VERTICAL, FULL DEPTH, 1/2 INCH WIDE WITH TYPE F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73.
 - A. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE.
 - B. EXPANSION JOINTS ARE REQUIRED AT THE START OR END OF A STREET INTERSECTION CURB RETURN.
 - C. PLACE EXPANSION JOINTS EVERY 50 FEET.
 - D. EXPANSION JOINTS ARE NOT REQUIRED IN CURB TANGENTS OR SLIP FORM WORK.
4. CONTRACTION JOINT: MAKE CONTRACTION JOINTS VERTICAL.
 - A. 1/8 INCH WIDE AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF SLAB IS GREATER THAN 8 INCHES THICK. IF NECESSARY, MATCH LOCATION OF CONTRACTION JOINTS IN ADJACENT CONCRETE FLATWORK.
5. FINISH: BROOMED.

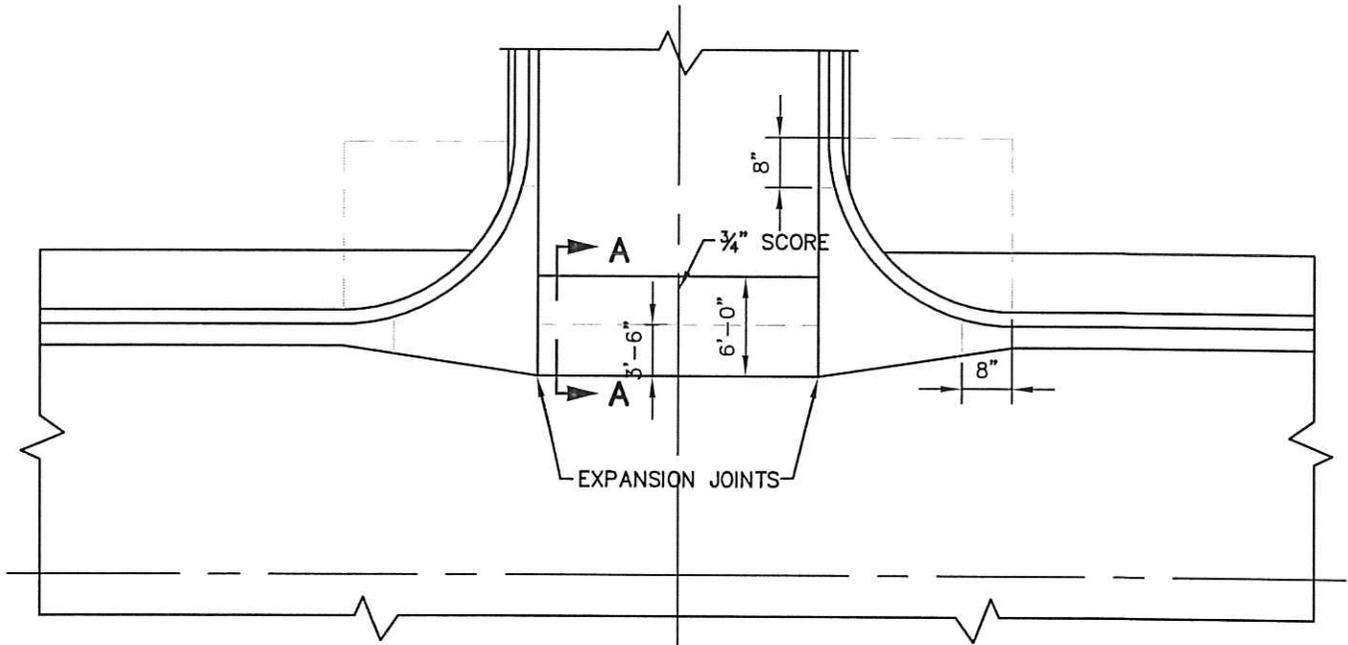
DRAWING UPDATED JUNE 2014

City of West Jordan, Utah

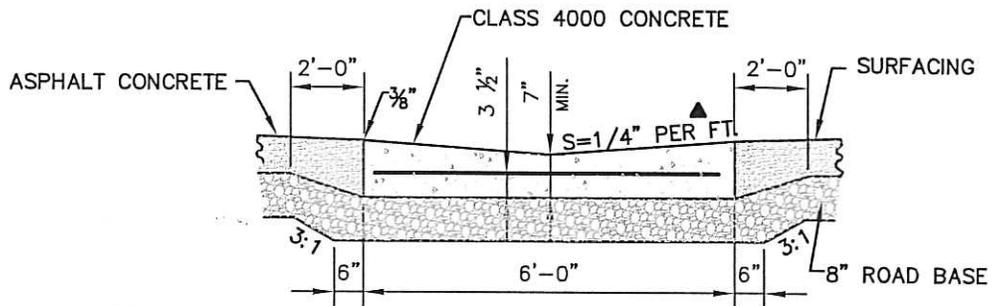


CONCRETE CURB WALL
FOR PAVEMENT EDGE

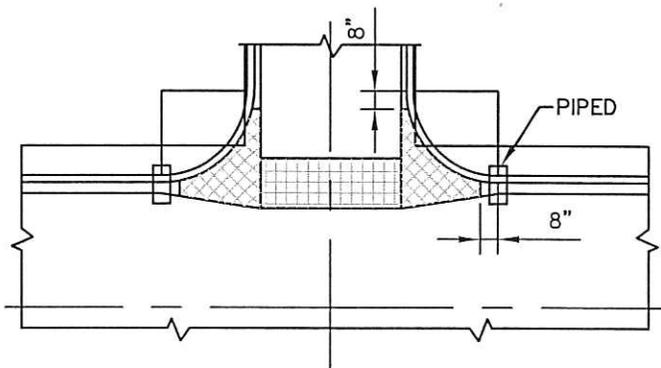
PLAN
RD-106



PLAN



GUTTER CROSS SECTION A-A



PLAN VIEW SHOWING STEEL LAYOUT

CROSS GUTTERS TO BE USED ONLY WHERE VEHICLES NORMALLY STOP. AND ONLY WITH PRIOR APPROVAL OF CITY ENGINEER. UNDERGROUND DRAINAGE SHOULD BE USED INSTEAD WHENEVER PRACTICAL. DRAINAGE WATER TO BE TAKEN UNDERGROUND AT INTERSECTIONS ACROSS THROUGH TRAVELED ROADS.

NOTE: No. 4 AT 12" EPOXY COATED REBAR PER ASTM D2963 BOTH WAYS IN ALL CROSS GUTTER AND SPANDRELS.

▲ GUTTER AND SPANDRELS

DRAWING UPDATED MAY 2014

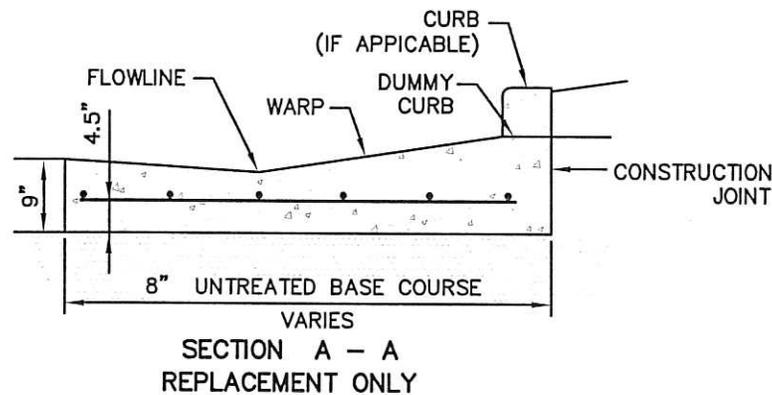
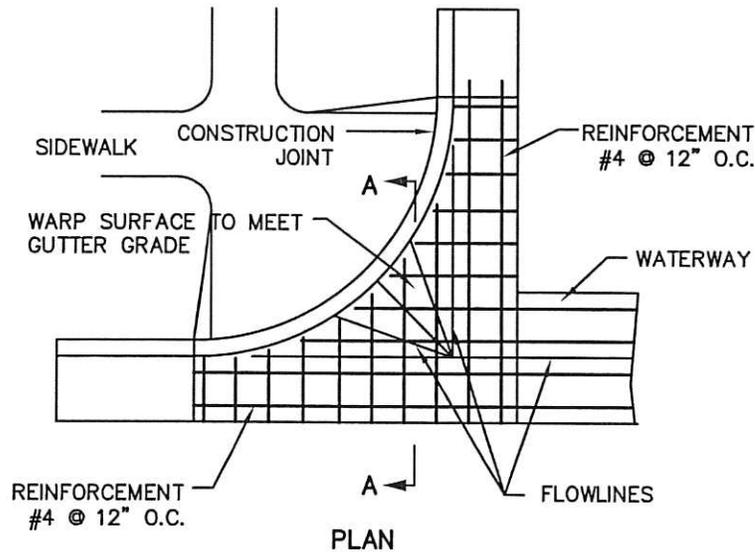
City of West Jordan, Utah



STANDARD CROSS GUTTER AT DRIVEWAY (BY APPROVAL ONLY)

STANDARD DRAWING

RD-110



NOTES:

1. UNTREATED BASE COURSE: USE CLASS A UNTREATED BASE COARSE GRADE 1 OR GRADE 3/4 PER APWA SECTION 32 11 23. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
 - A. PLACE BACKFILL MATERIAL PER APWA SECTION 32 05 10.
 - B. COMPACT BACKFILL MATERIAL PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER.
2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - A. IF NECESSARY, PROVIDE CONCRETE WHICH ACHIEVES DESIGN STRENGTH IN 72 HOURS (3 DAYS). USE CAUTION, HOWEVER, AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
 - B. PLACE CONCRETE PER APWA SECTION 03 30 10 .
 - C. PROVIDE 1/2 INCH RADIUS ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE SHOWN.
 - D. APPLY A SEALING/CURING COMPOUND PER APWA SECTION 03 39 00. (TYPE ID CLASS A; CLEAR WITH FUGITIVE DYE)
3. EXPANSION JOINTS:
 - A. PROVIDE FULL DEPTH 1/2 INCH THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE. PLACE EXPANSIONS JOINTS EVERY 50 FEET.
 - B. EXPANSION JOINTS ARE NOT REQUIRED IN SLIP FORM WORK EXCEPT AT THE START OR END OF THE WORK DAY, AND AT THE START OR END OF A STREET INTERSECTION CURB RADIUS RETURN.
4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8" WIDE, AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8 INCHES THICK. PLACE CONTRACTION JOINTS EVERY 10 FEET.
5. REINFORCEMENT: USE ASTM A 615, GRADE 60 GALVANIZED OR EPOXY COATED DEFORMED STEEL REBAR. SEE APWA SECTION 03 20 00.

DRAWING UPDATED MAY 2014

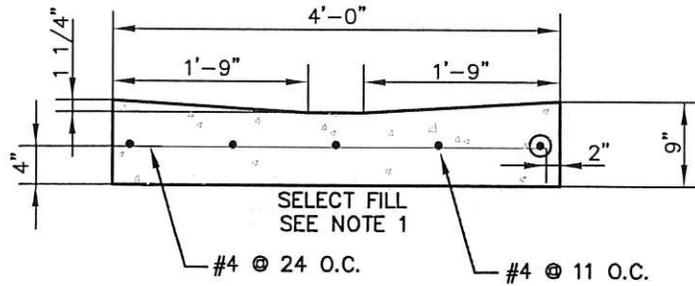
City of West Jordan, Utah



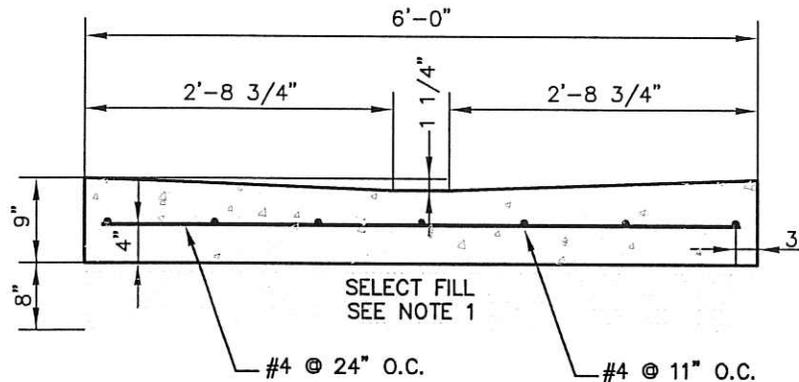
STANDARD WATERWAY TRANSITION

STANDARD DRAWING

RD-110A



**4' WATERWAY SECTION
REPLACEMENT ONLY**



**6' WATERWAY SECTION
ALL NEW CONSTRUCTION**

NOTES:

1. UNTREATED BASE COURSE: USE CLASS A UNTREATED BASE COARSE GRADE 1 OR GRADE 3/4 PER APWA SECTION 32 11 23. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
 - A. PLACE BACKFILL MATERIAL PER APWA SECTION 32 05 10.
 - B. COMPACT BACKFILL MATERIAL PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER. IN LIFTS NOT TO EXCEED EQUIPMENT COMPACTION CAPABILITY.

2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - A. IF NECESSARY, PROVIDE CONCRETE WHICH ACHIEVES DESIGN STRENGTH IN 72 HOURS (3 DAYS). USE CAUTION, HOWEVER, AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
 - B. PLACE CONCRETE PER APWA SECTION 03 30 10 .
 - C. PROVIDE 1/2" RADIUS ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE SHOWN.
 - D. APPLY A SEALING/CURING COMPOUND PER APWA SECTION 03 39 00. (TYPE ID CLASS A; CLEAR WITH FUGITIVE DYE)

3. EXPANSION JOINTS:
 - A. PROVIDE FULL DEPTH 1/2" THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE. PLACE EXPANSIONS JOINTS EVERY 50 FEET.
 - B. EXPANSION JOINTS ARE NOT REQUIRED IN SLIP FORM WORK EXCEPT AT THE START OR END OF THE WORK DAY, AND AT THE START OR END OF A STREET INTERSECTION CURB RADIUS RETURN.

4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8" WIDE, AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8 INCHES THICK. PLACE CONTRACTION JOINTS EVERY 10 FEET.

5. REINFORCEMENT: USE ASTM A 615, GRADE 60 GALVANIZED OR EPOXY COATED DEFORMED STEEL REBAR. SEE APWA SECTION 03 20 00.

DRAWING UPDATED MAY 2014

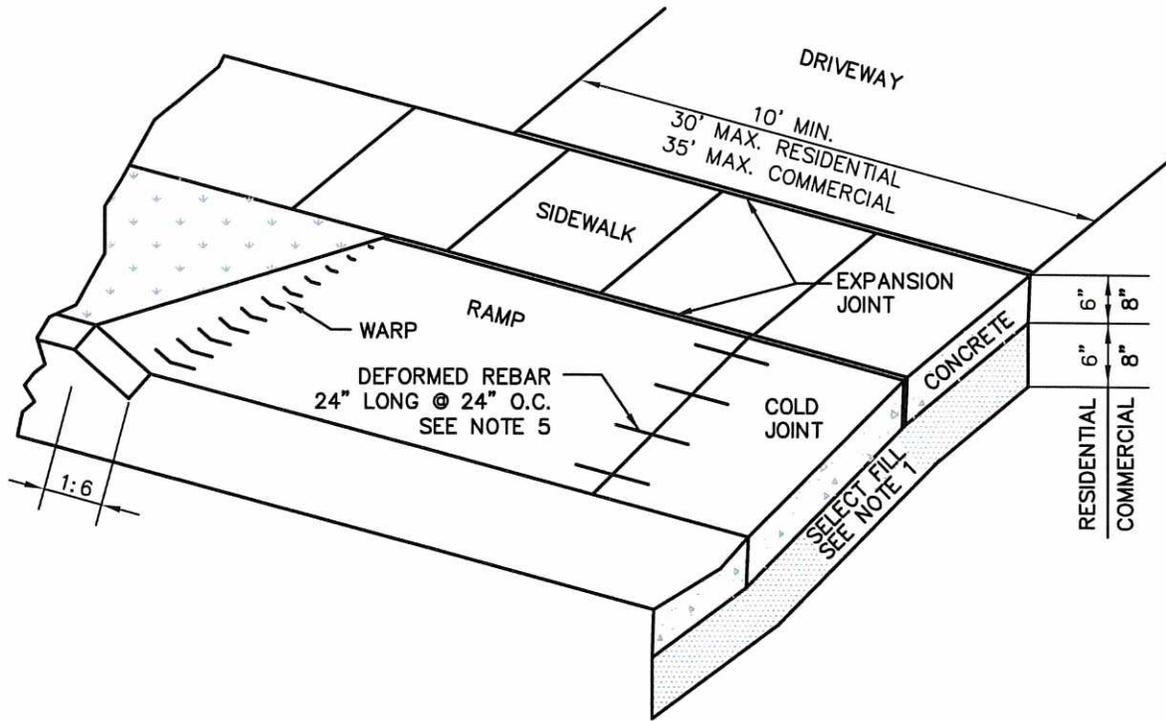
City of West Jordan, Utah



STANDARD WATERWAY

STANDARD DRAWING

RD-115



NOTES:

1. UNTREATED BASE COURSE: USE CLASS A UNTREATED BASE COARSE GRADE 1 OR GRADE 3/4 PER APWA SECTION 32 11 23. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
 - A. PLACE BACKFILL MATERIAL PER APWA SECTION 32 05 10.
 - B. COMPACT BACKFILL MATERIAL PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER. MINIMUM LIFT THICKNESS NOT TO EXCEED CAPABILITY OF COMPACTION EQUIPMENT.

2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - A. IF NECESSARY, PROVIDE CONCRETE WHICH ACHIEVES DESIGN STRENGTH IN 72 HOURS (3 DAYS). USE CAUTION, HOWEVER, AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
 - B. PLACE CONCRETE PER APWA SECTION 03 30 10 .
 - C. PROVIDE 1/2 INCH RADIUS ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE SHOWN.
 - D. APPLY A SEALING/CURING COMPOUND PER APWA SECTION 03 39 00.

3. EXPANSION JOINTS:
 - A. PROVIDE FULL DEPTH 1/2 INCH THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE. PLACE EXPANSION JOINTS EVERY 50 FEET.
 - B. EXPANSION JOINTS ARE NOT REQUIRED IN SLIP FORM WORK EXCEPT AT THE START OR END OF THE WORK DAY, AND AT THE START OR END OF A STREET INTERSECTION CURB RADIUS RETURN.

4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8" WIDE, AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8 INCHES THICK. PLACE CONTRACTION JOINTS EVERY 10 FEET.

5. REINFORCEMENT: USE ASTM A 615, GRADE 60 GALVANIZED OR EPOXY COATED DEFORMED STEEL REBAR. SEE APWA SECTION 03 20 00.

6. FINISH: BROOM FINISH

DRAWING UPDATED AUGUST 2014

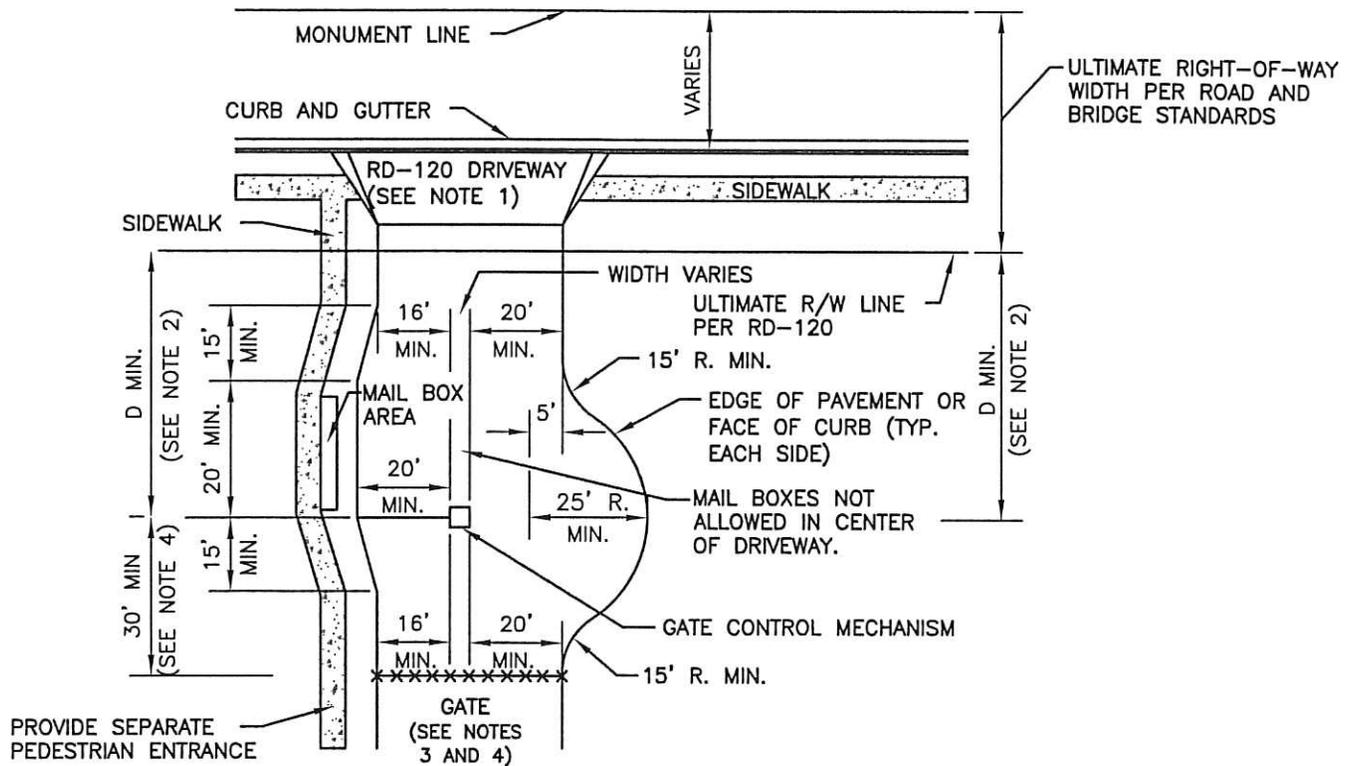
City of West Jordan, Utah



STANDARD DRIVE APPROACH

STANDARD DRAWING

RD-120



NOTES:

1. DRIVEWAY PER WEST JORDAN STANDARD DETAIL RD-120.
2. D MIN. FROM ULTIMATE R/W LINE PER RD-120 TO CENTERLINE OF GATE CONTROL MECHANISM. D MIN. VARIES IN ACCORDANCE TO DENSITY OF RESIDENTIAL DEVELOPMENT AS SHOWN BELOW:

DEVELOPMENT UNITS	D MIN.
LESS THEN 25	20'
25 TO 100	40'
100 TO 150	60'
151 TO 200	80'
GREATER THAN 200	100'

3. GATE INSTALLED AT BEGINNING OF 15' RADIUS.
4. 30' MIN. DIMENSION FROM CENTERLINE OF GATE CONTROL MECHANISM TO FACE TO GATE.
5. WHERE EXISTING CONDITIONS DEEM IT NECESSARY TO REQUEST A DESIGN EXCEPTION OF THE GATED ACCESS, THIS STANDARD MAY BE MODIFIED BY THE TRAFFIC ENGINEER.

DRAWING UPDATED AUGUST 2014

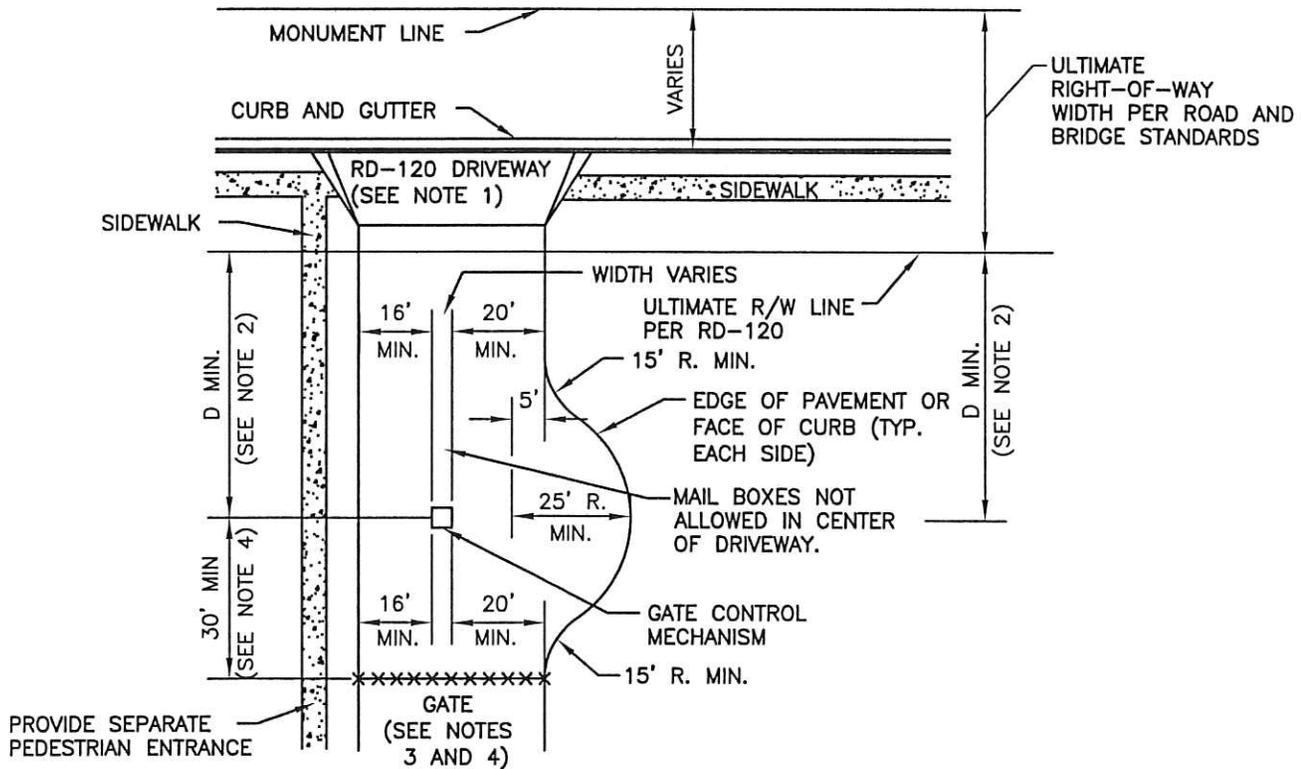
City of West Jordan, Utah



TYPICAL DRIVEWAY ACCESS TO PRIVATE GATED COMMUNITY WITH EXTERNAL MAILBOX AREA

STANDARD DRAWING

RD-121



NOTES:

1. DRIVEWAY PER WEST JORDAN STANDARD DETAIL RD-120.
2. D MIN. FROM ULTIMATE R/W LINE PER RD-120 TO CENTERLINE OF GATE CONTROL MECHANISM. D MIN. VARIES IN ACCORDANCE TO DENSITY OF RESIDENTIAL DEVELOPMENT AS SHOWN BELOW:

DEVELOPMENT UNITS	D MIN.
LESS THEN 25	20'
25 TO 100	40'
100 TO 150	60'
151 TO 200	80'
GREATER THAN 200	100'

3. GATE INSTALLED AT BEGINNING OF 15' RADIUS.
4. 30' MIN. DIMENSION FROM CENTERLINE OF GATE CONTROL MECHANISM TO FACE TO GATE.
5. WHERE EXISTING CONDITIONS DEEM IT NECESSARY TO REQUEST A DESIGN EXCEPTION OF THE GATED ACCESS, THIS STANDARD MAY BE MODIFIED BY THE TRAFFIC ENGINEER.

DRAWING UPDATED AUGUST 2014

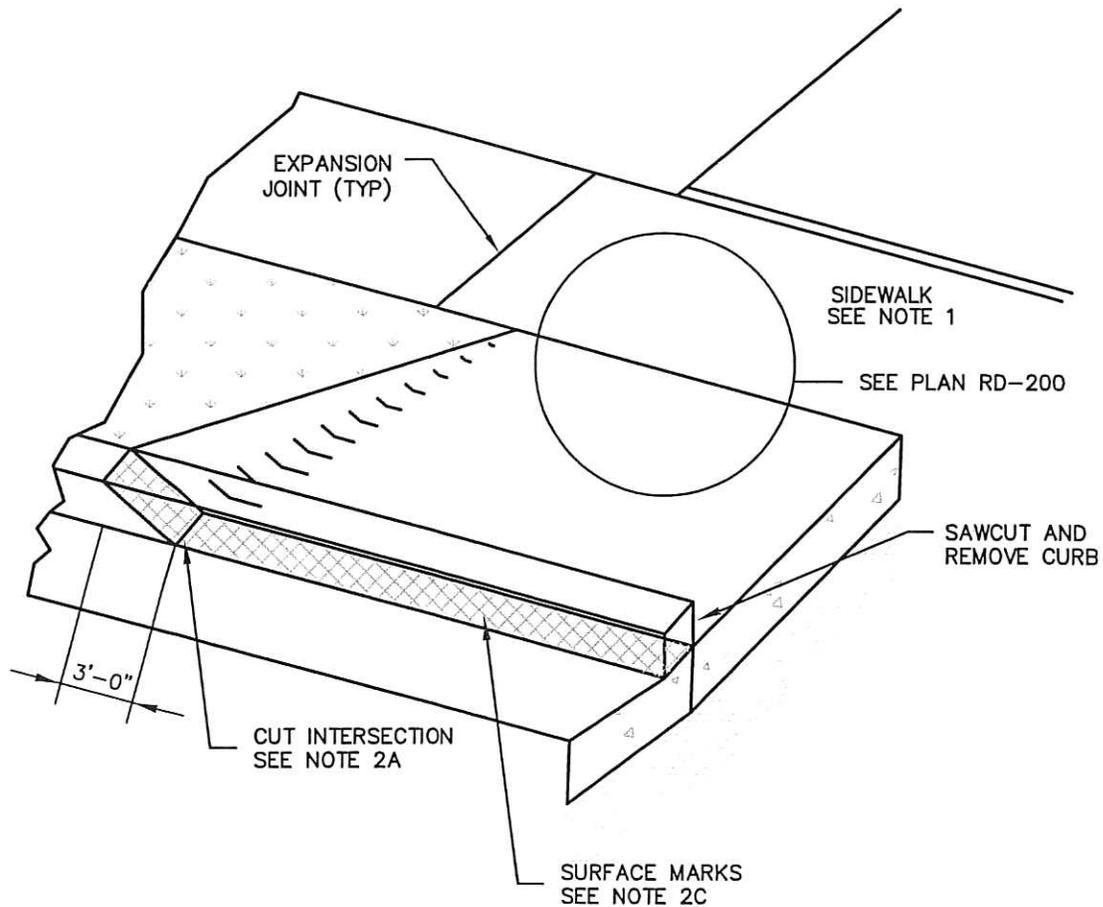
City of West Jordan, Utah



TYPICAL DRIVEWAY ACCESS TO PRIVATE GATED COMMUNITY WITHOUT EXTERNAL MAILBOX AREA

STANDARD DRAWING

RD-122



NOTES:

1. SIDEWALK:

- A. REMOVE AND REPLACE ALL DETERIORATED, WEAK OR UNSOUND CONCRETE.
- B. THICKNESS OF SIDEWALK AT DRIVEWAY RAMP TO MATCH THICKNESS OF DRIVEWAY RAMP.
- C. MATCH ELEVATION OF DRIVEWAY WALK TO THE NEAREST JOINT BEYOND THE WIDTH OF THE DRIVEWAY.

2. CURB CUTTING:

- A. NO OVER-CUTTING WHERE CUTS MERGE.
- B. BEVEL FRONT EDGE AT FLOWLINE OR HAVE SAWCUT MATCH FLOWLINE.
- C. GRIND SAWED SURFACES SO THAT NO BLADE MARKS APPEAR.

3. EXPANSION JOINTS: PROVIDE FULL DEPTH 1/2 INCH THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE.

DRAWING UPDATED AUGUST 2014

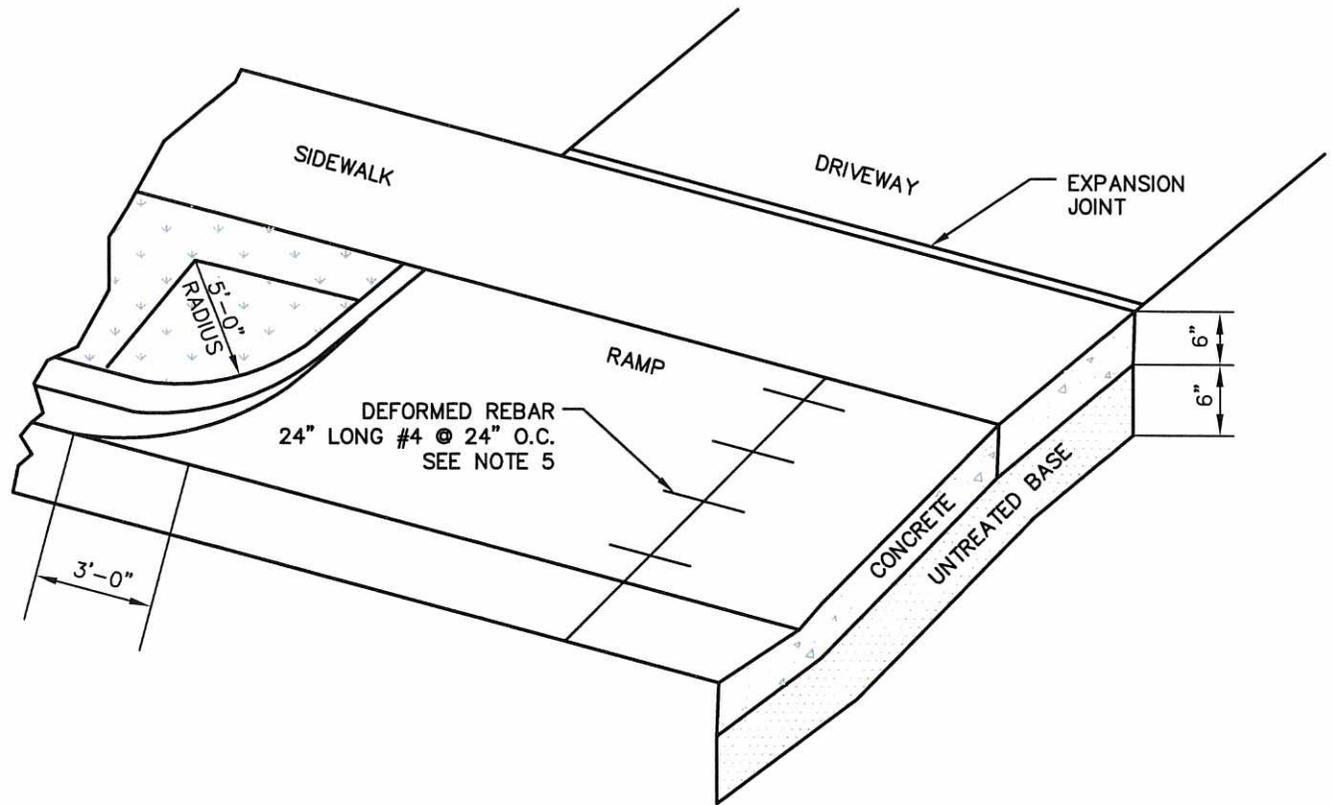
City of West Jordan, Utah



SAW-CUT DRIVE APPROACH

STANDARD DRAWING

RD-125



NOTES:

1. UNTREATED BASE COURSE: USE CLASS A UNTREATED BASE COARSE GRADE 1 OR GRADE 3/4 PER APWA SECTION 32 11 23. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
 - A. PLACE BACKFILL MATERIAL PER APWA SECTION 32 05 10.
 - B. COMPACT BACKFILL MATERIAL PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER. MINIMUM LIFT THICKNESS NOT TO EXCEED CAPABILITY OF COMPACTION EQUIPMENT.
2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - A. IF NECESSARY, PROVIDE CONCRETE WHICH ACHIEVES DESIGN STRENGTH IN 72 HOURS (3 DAYS). USE CAUTION, HOWEVER, AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
 - B. PLACE CONCRETE PER APWA SECTION 03 30 10 .
 - C. PROVIDE 1/2 INCH RADIUS ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE SHOWN.
 - D. APPLY A SEALING/CURING COMPOUND PER APWA SECTION 03 39 00.
3. EXPANSION JOINTS:
 - A. PROVIDE FULL DEPTH 1/2 INCH THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE. PLACE EXPANSION JOINTS EVERY 50 FEET.
 - B. EXPANSION JOINTS ARE NOT REQUIRED IN SLIP FORM WORK EXCEPT AT THE START OR END OF THE WORK DAY, AND AT THE START OR END OF A STREET INTERSECTION CURB RADIUS RETURN.
4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8" WIDE, AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8 INCHES THICK. PLACE CONTRACTION JOINTS EVERY 10 FEET.
5. REINFORCEMENT: IF COLD JOINT IS CONSTRUCTED IN THE DRIVE APPROACH, INSTALL ASTM A 615, GRADE 60 GALVANIZED OR EPOXY COATED DEFORMED STEEL REBAR. SEE APWA SECTION 03 20 00.

DRAWING UPDATED AUGUST 2014

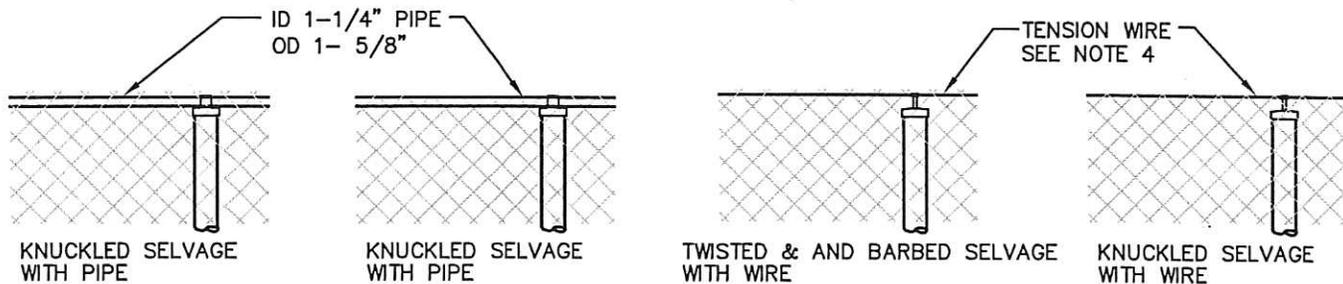
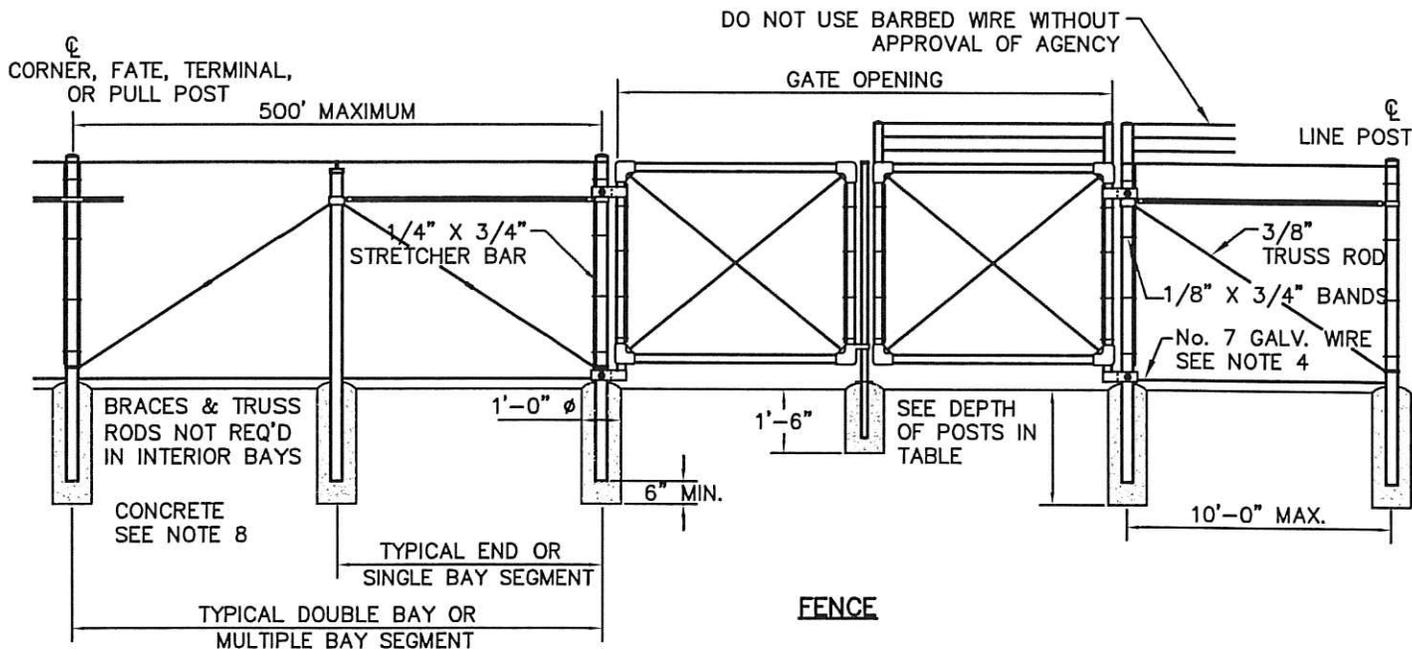
City of West Jordan, Utah



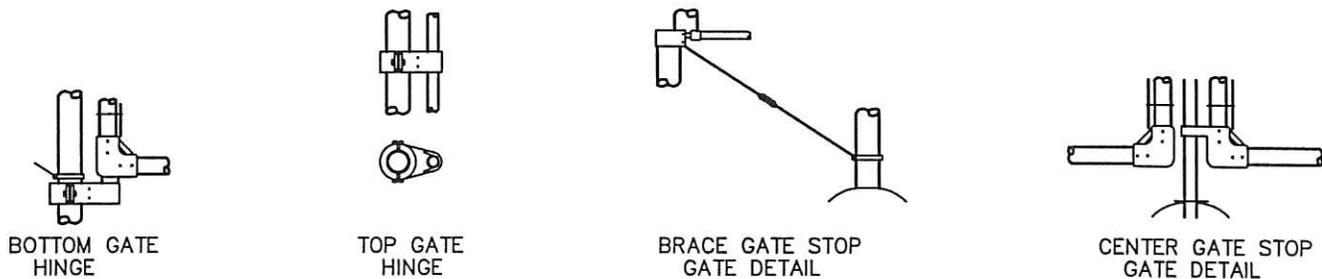
OPEN DRIVE APPROACH

STANDARD DRAWING

RD-130



FABRIC



DETAILS

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



CHAIN LINK FENCE

1 OF 2

STANDARD DRAWING

RD-135

GATE POSTS AND GATE FRAMES			
HEIGHT	FRAME	GATE OPENINGS	POST
UNDER 5 FEET	1-1/2"	SINGLE TO 6' OR DOUBLE TO 12'	2"
	1-1/2"	SINGLE OVER 6' TO 8' OR DOUBLE OVER 12' TO 16'	2-1/2"
	1-1/2"	SINGLE OVER 8' TO 12' OR DOUBLE OVER 16' TO 24'	3-1/2"
5 FEET AND OVER	1-1/2"	SINGLE TO 6' OR DOUBLE TO 12'	2-1/2"
	1-1/2"	SINGLE OVER 6' TO 13' OR DOUBLE OVER 12' TO 26'	3-1/2"
	1-1/2"	SINGLE OVER 13' TO 18' OR DOUBLE OVER 26' TO 36'	6"
	1-1/2"	SINGLE OVER 18' OR DOUBLE OVER 36'	8"

POSTS					
HEIGHT OF FABRIC	DEPTH OF POSTS	LENGTH OF END CORNER, OR PULL POST	LENGTH OF LINE POST	POST	
				END, CORNER PULL POST	LINE POST
7'	3'	10'	9'-8"	2-1/2"	2"
6'	3'	9'	8'-8"	2-1/2"	2"
5'	3'	8'	7'-8"	2"	1-1/2"
4'	2'	6'	5'-8"	2"	1-1/2"

NOTES:

- FENCES 5--FEET HIGH OR HIGHER: USE TWISTED AND BARBED SELVAGE, WITH WIRE TOP AND BOTTOM.
- FENCES 5--FEET OR LESS: USE KNUCKLED SELVAGE WITH PIPE ON TOP, AND TWISTED AND BARBED SELVAGE WITH WIRE ON BOTTOM.
- TRUSS RODS AND BRACES: NOT REQUIRED FOR FABRIC HEIGHTS LESS THAN 5--FEET.
- TENSION WIRE: USE ZINC COATED, GALVANIZED, No. 7 GAGE SPRING COIL STEEL. SET WIRE AT 1" OVER NATURAL GROUND OR 6' OVER CONCRETE STRUCTURES.
- PIPE: USE ASTM A 120, SCHEDULE 40, HOT DIPPED ZINC COATED STEEL.
- POST SPACING: LOCATE POST AT EQUAL SPACING FOR EACH SEGMENT WITH MAXIMUM SPACING SPECIFIED BY SUPPLIER.
- BARB WIRE ARM: FACE ARM TOWARDS EXTERIOR OF FENCED AREA.
- CONCRETE: USE CLASS 4,000 PORTLAND CEMENT CONCRETE. APPLY A LIQUID MEMBRANE CURING COMPOUND OR USE AN ACCEPTABLE ALTERNATE CURING METHOD.

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah

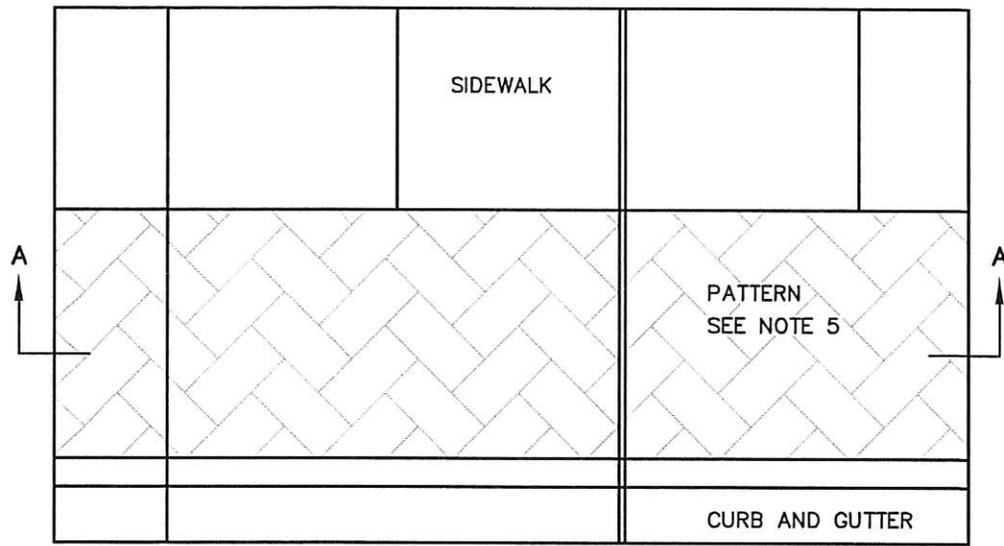


CHAIN LINK FENCE

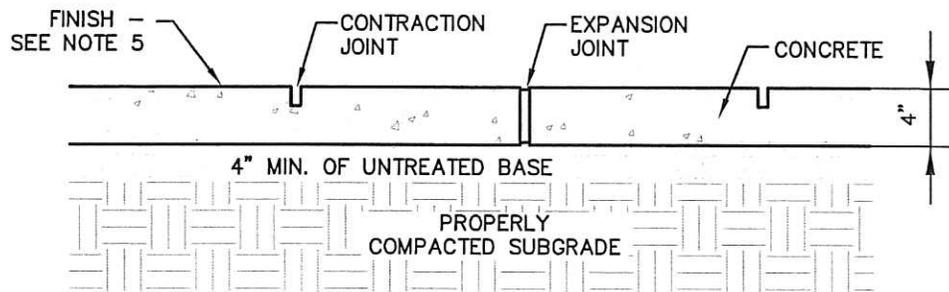
2 OF 2

STANDARD DRAWING

RD-135



PLAN VIEW



SECTION A - A

NOTES:

1. UNTREATED BASE COURSE: USE CLASS A UNTREATED BASE COARSE GRADE 1 OR GRADE 3/4 PER APWA SECTION 32 11 23. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
 - A. PLACE BACKFILL MATERIAL PER APWA SECTION 32 05 10.
 - B. COMPACT BACKFILL MATERIAL PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER.
2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - A. IF NECESSARY, PROVIDE CONCRETE WHICH ACHIEVES DESIGN STRENGTH IN 72 HOURS (3 DAYS). USE CAUTION, HOWEVER, AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
 - B. PLACE CONCRETE PER APWA SECTION 03 30 10 .
 - C. PROVIDE 1/2 INCH RADIUS ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE SHOWN.
 - D. APPLY A SEALING/CURING COMPOUND PER APWA SECTION 03 39 00.
3. EXPANSION JOINTS:
 - A. PROVIDE FULL DEPTH 1/2 INCH THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE. PLACE EXPANSION JOINTS EVERY 50 FEET.
 - B. EXPANSION JOINTS ARE NOT REQUIRED IN SLIP FORM WORK EXCEPT AT THE START OR END OF THE WORK DAY, AND AT THE START OR END OF A STREET INTERSECTION CURB RADIUS RETURN.
4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8" WDE, AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8 INCHES THICK. PLACE CONTRACTION JOINTS EVERY 10 FEET.
5. PATTERN: PLACE UNIFORMLY OVER SURFACE USING RELEASE POWDER ON STAMPING MATS. STAMP TO A DEPTH OF 1/2 INCH. CLEAN FUGITIVE RELEASE POWDER FROM CONCRETE PRIOR TO APPLICATION OF CURING COMPOUND.
6. PATTERN DESIGN: ASHLAR CUT SLATE
7. COLORING: INTEGRAL COLORING WITH MEDIUM BROWN. NO REDS, WHITE, OR NATURAL LOOK. NO BROADCASTING OF COLOR ON THE SURFACE OF THE CONCRETE. APPLY COLOR TO CONCRETE MIX PER MANUFACTURE REQUIRED RATIO.

DRAWING UPDATED AUGUST 2014

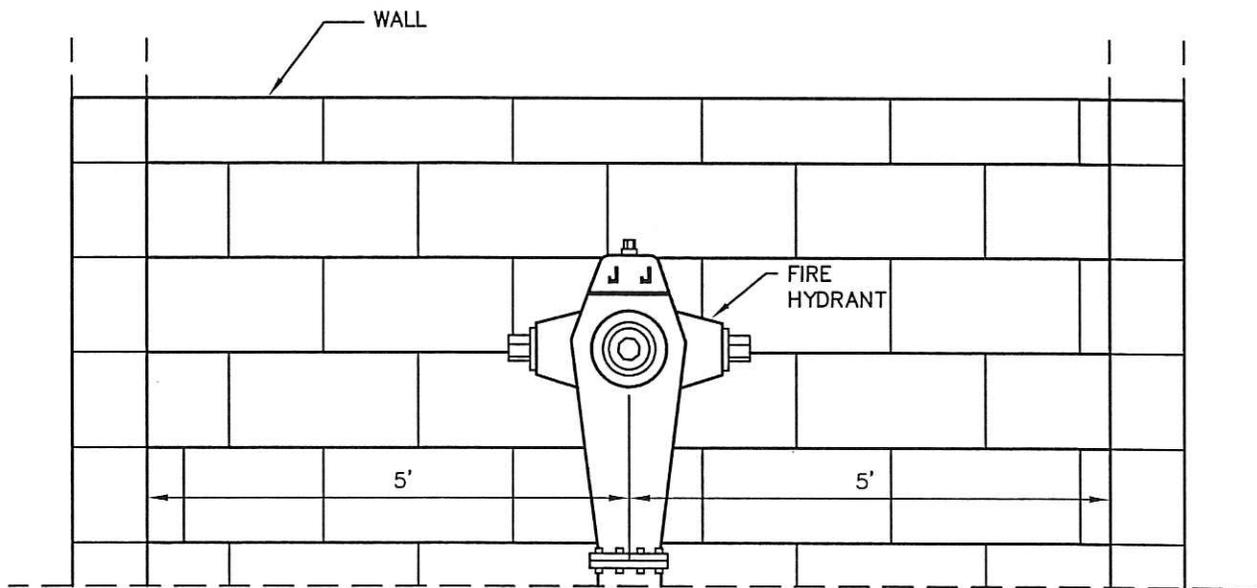
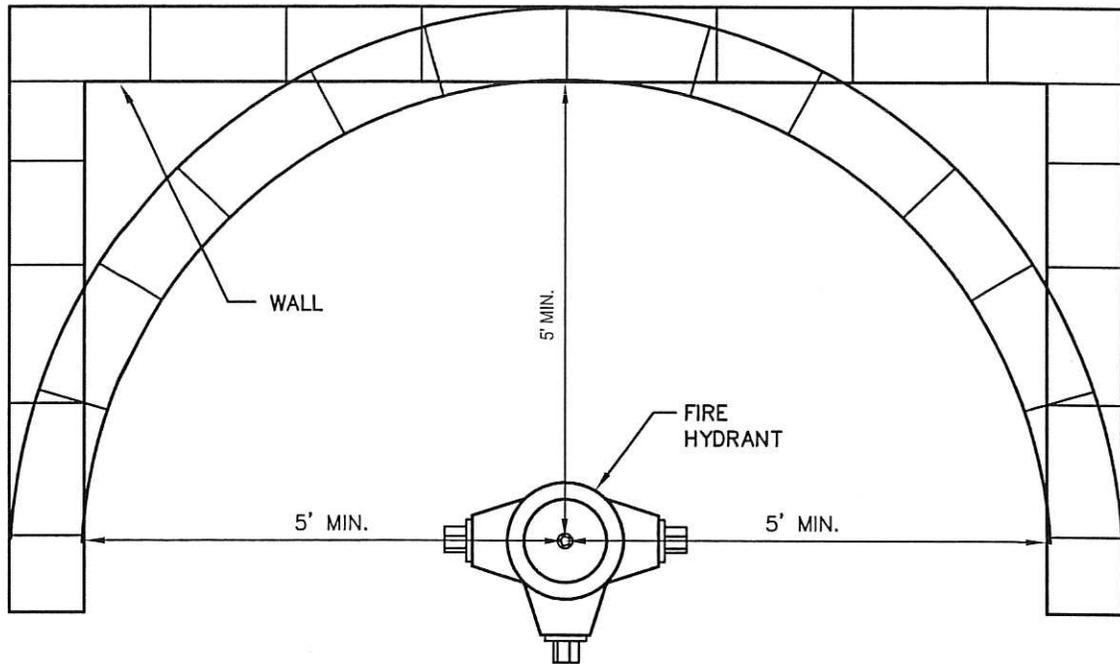
City of West Jordan, Utah



STANDARD CONCRETE PARK STRIP

STANDARD DRAWING

RD-140



NOTES:

1. ALL RETAINING WALL EXCEEDING 48" IN HEIGHT REQUIRE BUILDING PERMIT.
2. PLANNED DEVELOPMENT (IE. RPD, HPD, DP, ETCT. PROJECTS MAY REQUIRE USE OF SPECIAL COLOR AND TEXTURE OF MATERIALS.

DRAWING UPDATED AUGUST 2014

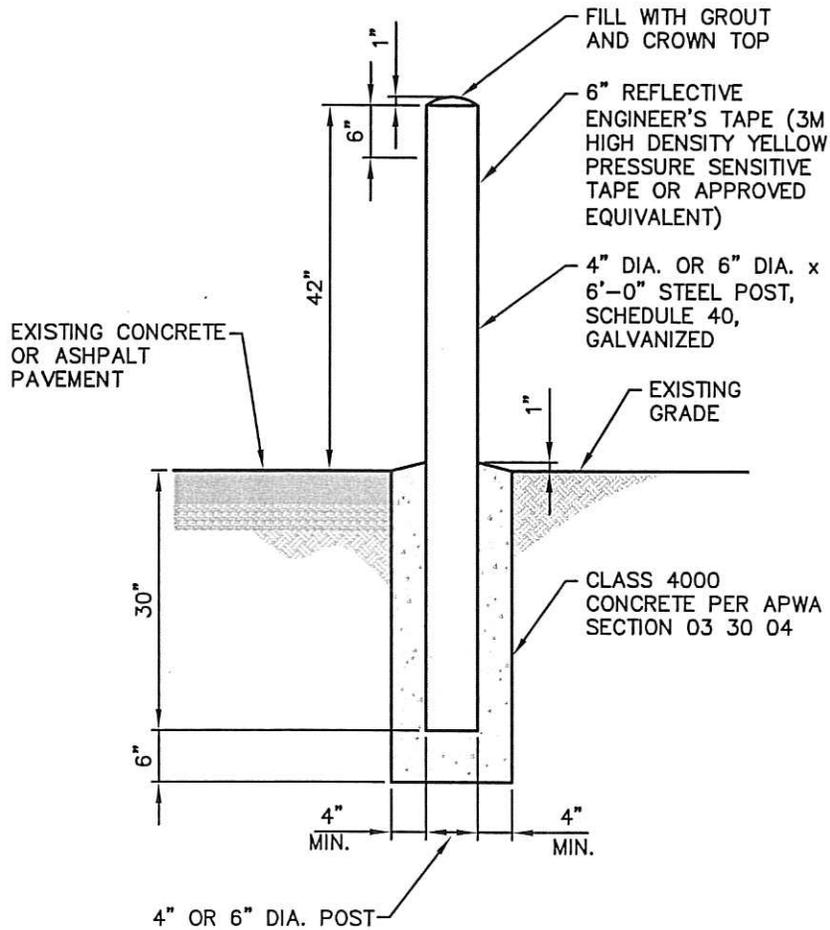
City of West Jordan, Utah



LOCATION OF FIRE HYDRANT WITHIN RETAINING WALL OR FENCE

STANDARD DRAWING

RD-155



DRAWING UPDATED AUGUST 2014

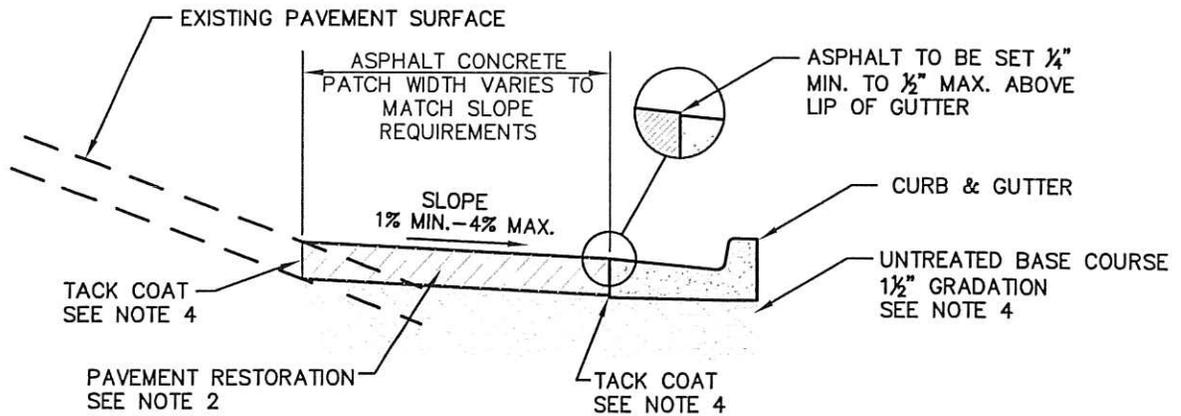
City of West Jordan, Utah



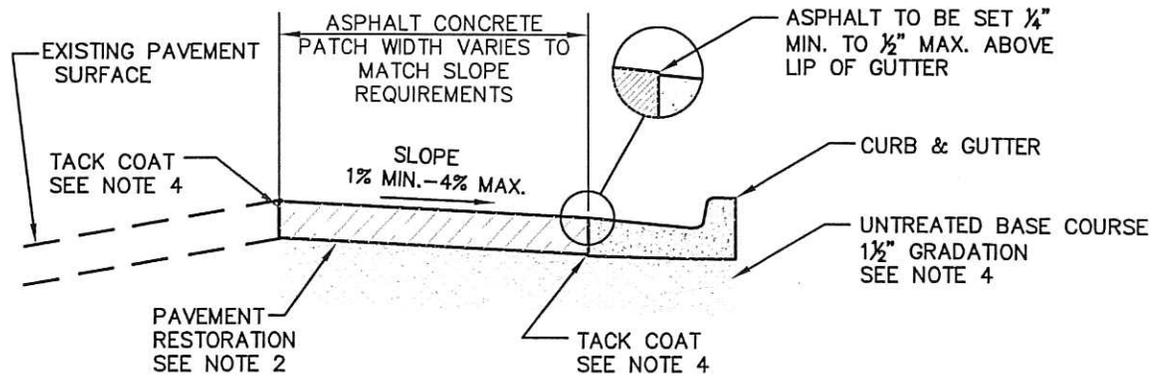
SAFETY POST

STANDARD DRAWING

RD-165



CASE 1 - POSITIVE STREET TIE-IN



CASE 2 - NEGATIVE STREET TIE-IN

NOTES:

1. BACK FILL: INSTALL ALL BACK FILL IN LIFTS NOT EXCEEDING 6" AFTER COMPACTION. COMPACT EACH LIFT TO AN AVERAGE DRY DENSITY OF 95% OF OPTIMUM WITH NO DENSITY TEST RESULT LESS THAN 92% OF OPTIMUM. FOR CURB AND GUTTER WITH LESS THAN 0.5 PERCENT GRADE ($S=.005$), INSTALL AT LEAST 8 INCHES OF AGGREGATE BASE.
2. ASPHALT CONCRETE RESTORATION: 4" MINIMUM BUT MUST MATCH EXISTING + 1" THICKNESS.
3. JOINTS: PROVIDE A NEAT STRAIGHT JOINT BETWEEN EXISTING AND NEW ASPHALT CONCRETE SURFACES. SAW CUT JOINT IF EXISTING PAVEMENT EXCEEDS 3 INCHES IN THICKNESS, OR IF PORTLAND CEMENT CONCRETE UNDERLIES ASPHALT CONCRETE PAVEMENT.
4. TACK COAT: TACK ALL VERTICAL SURFACES ADJACENT TO THE PATCH

DRAWING UPDATED AUGUST 2014

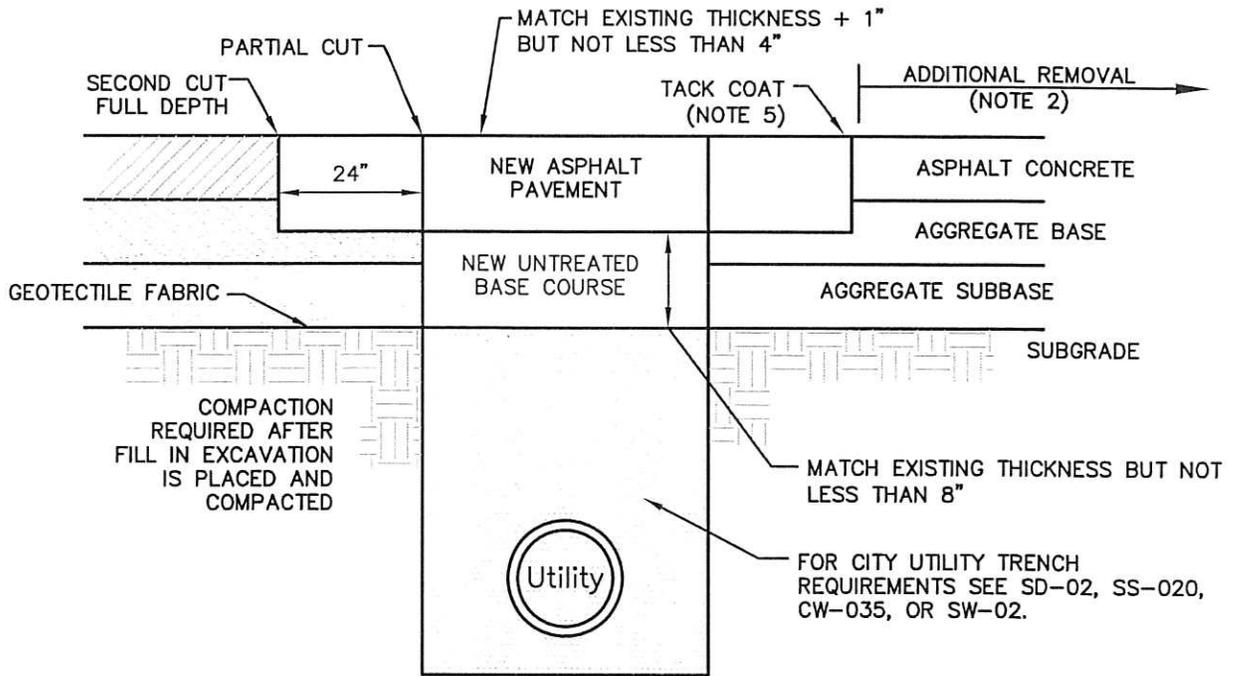
City of West Jordan, Utah



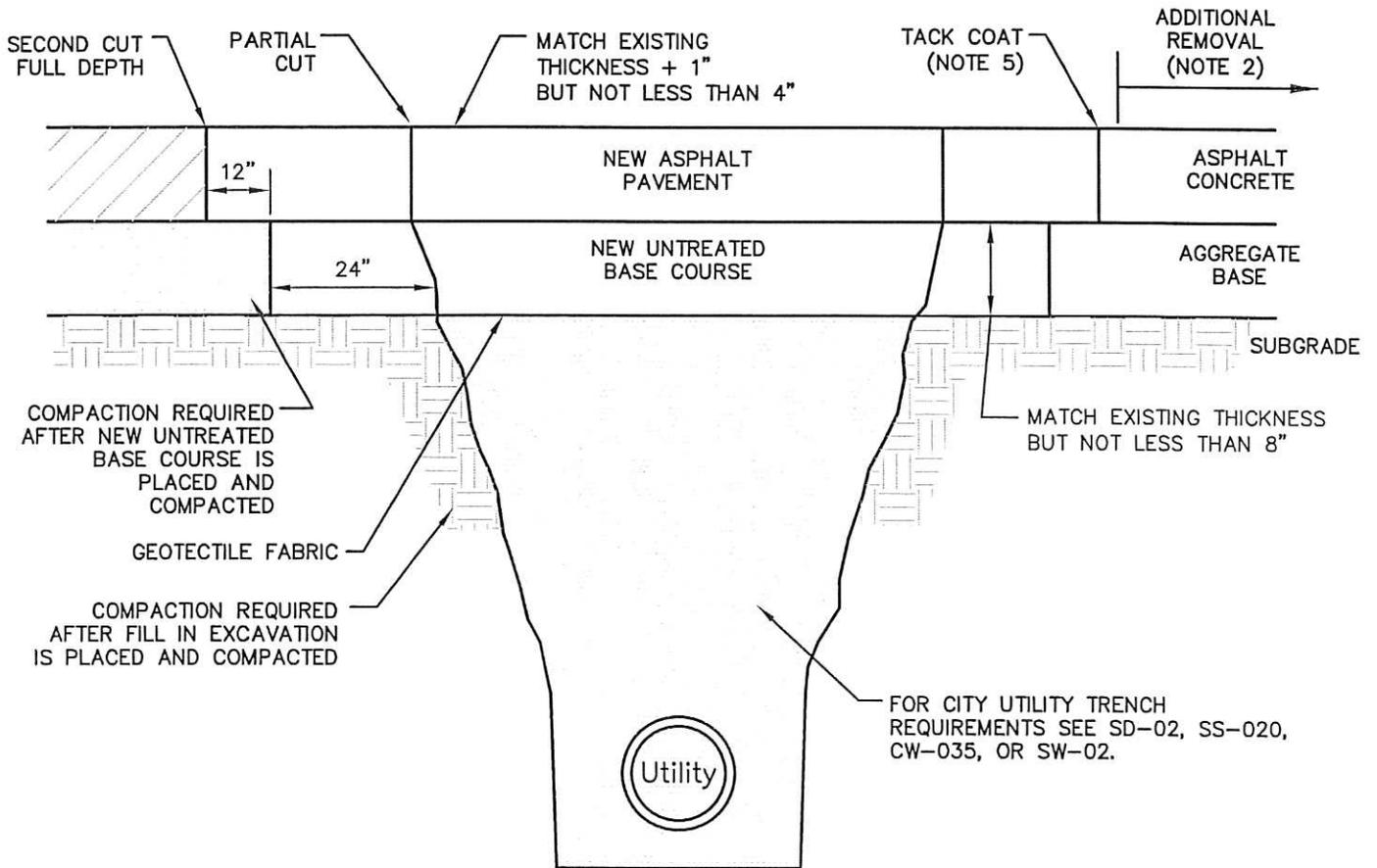
ASPHALT PAVEMENT TIE-IN

STANDARD DRAWING

RD-170



SHALLOW EXCAVATION ASPHALT CONCRETE TRENCH PATCH
(42" OR LESS FROM PAVEMENT SURFACE TO BOTTOM OF EXCAVATION)



DEEP EXCAVATION ASPHALT CONCRETE TRENCH PATCH
(GREATER THAN 42" FROM PAVEMENT SURFACE TO BOTTOM OF EXCAVATION)

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



STANDARD TRENCH EXCAVATION RESTORATION

1 OF 2

STANDARD DRAWING

RD-175

NOTES:

1. INSPECTION REQUIREMENTS: WEST JORDAN CITY INSPECTION DEPARTMENT MUST BE NOTIFIED FOR THE FOLLOWING INSPECTION APPOINTMENTS 48 HOURS IN ADVANCE:
 - A. A. NOSE – ON OR TAP.
 - B. BACKFILL AND COMPACTION.
 - C. ROADBASE COMPACTION.
 - D. PREPARATION OF SURFACE FOR ASPHALT.
 - E. ASPHALT PLACEMENT AND COMPACTION.

SURFACE RESTORATION SHALL BE DONE WITHIN 72 HOURS OF EXCAVATION.

2. ADDITIONAL PAVEMENT REMOVAL: REMOVE ADDITIONAL PAVEMENT TO A PAINTED LANE STRIPE, A LIP OF GUTTER, A CURB, AN EXISTING PAVEMENT PATCH, OR AN EDGE OF THE PAVEMENT ON ALL COLLECTOR OR ARTERIAL STREETS. ON RESIDENTIAL STREETS, REMOVE ADDITIONAL PAVEMENT TO A LIP OF GUTTER, A CURB, AN EXISTING PAVEMENT PATCH, OR AN EDGE OF PAVEMENT IF SUCH STREET FEATURE IS WITHIN 2 FEET OF THE SECOND SAW CUT.
3. NEW UNTREATED BASE COURSE: PROVIDE AGGREGATE CLASS "A" UNTREATED BASE COURSE MATERIAL SPECIFIED IN APWA SECTION 32 11 23. DO NOT USE GRAVEL OR SEWER ROCK. PLACE NEW MATERIAL PER APWA 32 05 10. COMPACT PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT IN LIFTS NOT EXCEEDING 6 INCHES THICK AFTER COMPACTION.
4. FLOWABLE FILL: WHEN REQUIRED BY THE CITY ENGINEER, PROVIDE 28 DAY 60 PSI CONTROLLED LOW STRENGTH MATERIAL PER APWA SECTION 31 05 15. CURE TO INITIAL SET BEFORE PLACING AGGREGATE BASE OR ASPHALT PAVEMENT.
5. TACK COAT: PLACE AS SPECIFIED IN APWA SECTION 32 12 13.13 PROVIDE FULL TACK COAT COVERAGE ON ALL VERTICAL SURFACES.
6. ASPHALT PAVEMENT: USE HOT MIX ASPHALT CONCRETE AS SPECIFIED IN APWA SECTION 33 05 25. INSTALL IN 3 INCH LIFTS. COMPACT TO 94 PERCENT OF ASTM D2041 (RICE METHOD) PLUS OR MINUS TWO PERCENT.
7. JOINT REPAIR: IF A CRACK OCCURS AT THE "T" PATCH CONNECTION TO THE EXISTING PAVEMENT OR AT ANY STREET FIXTURE, REPAIR CRACK PER APWA SECTION 32 01 17.
8. PATCH REPAIRS: REPAIR THE FOLLOWING CONDITIONS DURING THE CORRECTION PERIOD.
 - A. PAVEMENT SURFACE DISTORTION EXCEEDS 1/4 INCH DEVIATION IN 10 FEET. REPAIR OPTION: PLANE OFF SURFACE DISTORTIONS. COAT WITH CATIONIC OR ANIONIC EMULSION THAT COMPLIES WITH APWA 32 12 03 AND PROVIDE SAND BLOTTER.
 - B. CRACKS 1/4 WIDE AND 1 FOOT LONG OCCUR MORE OFTEN THAN 1 IN 10 SQUARE FEET. REPAIR OPTION: CRACK SEAL PER APWA 32 01 17.
 - C. ASPHALT RAVELING IS GREATER THAN 1 SQUARE FEET IN 10 SQUARE FEET. REPAIR OPTION: MILL AND INLAY.
9. TRAFFIC CONTROL: APPLICANT IS REQUIRED TO PROVIDE ADEQUATE WORK ZONE TRAFFIC CONTROL AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. (MUTCD)
10. IDENTIFICATION: A SIGN SHALL BE POSTED AT SITE THAT INCLUDES THE CONTRACTOR'S NAME AND EMERGENCY TELEPHONE NUMBER.
11. AS-BUILT DRAWINGS: UPON COMPLETION OF THE PROJECT THE CONTRACTOR SHALL SUPPLY THE CITY WITH A COMPLETE SET OF AS-BUILT DRAWINGS AS DEFINED IN CITY CODE.
12. GEOTEXTILES REPLACEMENT AS PER APWA 31 05 19

DRAWING UPDATE AUGUST 2014

City of West Jordan, Utah



STANDARD TRENCH EXCAVATION AND RESTORATION

2 OF 2

STANDARD DRAWING

RD-175

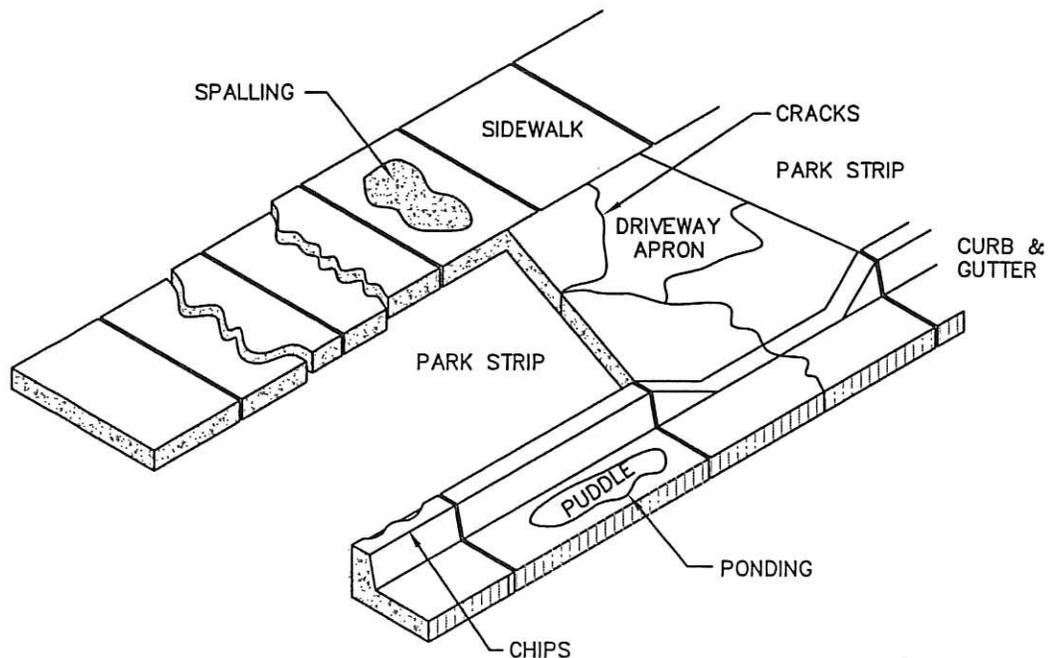
NOTES:

1. CURB & GUTTER:

- A. CRACKS: CRACKS WHICH INDICATE STRUCTURAL FAILURE OR SETTLING, OR WHICH RESULT IN VERTICAL DISPLACEMENT ARE CAUSE FOR REJECTION. CRACKS WHICH ARE CLEARLY SHRINKAGE CRACKS WHICH HAVE NOT OPENED UP, AND WHICH DO NOT IMPEDE FLOW OF WATER ARE NOT CAUSE FOR REMOVAL. CRACKS WHICH EXHIBIT MULTIPLE TRACES, OR WHICH RESULT IN CHIPPING OR FLAKING ADJACENT TO THE CRACK, ARE NOT CONSIDERED SHRINKAGE CRACKS.
- B. SPALLING: MINOR, OCCASIONAL SPALLING IS NOT CAUSE FOR REJECTION, IF SPALLING OCCURS OVER MORE THAN 15% OF A SECTION, THE ENTIRE SECTION SHOULD BE REPLACED.
- C. PONDING: STANDING WATER MORE THAN 1/4" DEEP REQUIRES CORRECTION. STANDING WATER MORE THAN 3/8" DEEP REQUIRES REPLACEMENT OF SUFFICIENT CURB AND GUTTER TO CORRECT THE PROBLEM.
- D. CHIPS: CHIPS WHICH DON'T AFFECT THE STRUCTURAL INTEGRITY OF THE SECTION OR IMPED THE NORMAL FLOW OF WATER MAY USUALLY BE LEFT. GENERALLY, CHIPS ON THE BACK OF THE CURB LESS THAN 1 - 1/2" IN WIDTH OR DEPTH, WHICH DON'T COMPRISE MORE THAN 25% OF THE LENGTH OF A SECTION MAY BE LEFT. CHIPS IN THE APRON, AWAY FROM THE FLOW LINE MAY USUALLY BE LEFT, PROVIDED THEY DON'T DIRECT WATER INTO THE SUBGRADE. AN OCCASIONAL, MINOR CHIP IN THE FLOWLINE IS NOT NECESSARILY CAUSE FOR REJECTION.
- E. COMBINATIONS: WHILE ANY OF THE ABOVE ITEMS MAY NOT RESULT IN REJECTION A SINGLE SECTION WHICH EXHIBITS MULTIPLE SUCH ITEMS MAY BE REJECTED.

2. SIDEWALKS: SIMILAR TO CURB AND GUTTER, EXCEPT THAT CHIPS OR SERIOUS SPALLS WHICH, IN THE OPINION OF THE INSPECTOR MAY CAUSE A TRIPPING HAZARD, WILL REQUIRE REPLACEMENT OF THE SECTION. CHIPS WHICH EXTEND LESS THAN 1-1/2" INTO THE SIDEWALK FROM THE EDGE ARE GENERALLY NOT CAUSE FOR REJECTION, UNLESS SUCH CHIPS OCCUR OVER MORE THAN 25% OF THE LENGTH OF THE SECTION. SIDEWALKS WHICH EXTEND MORE THAN 50 FEET WITHOUT AN EXPANSION JOINT WILL REQUIRE REMOVAL AND REPLACEMENT OF A SECTION; REPLACEMENT SHALL INCLUDE EXPANSION JOINT T.

3. CONCRETE PATCHING IS NOT PERMITTED. ALL DEFECTIVE CONCRETE TO BE REMOVED AND REPLACED.



DRAWING UPDATED AUGUST 2014

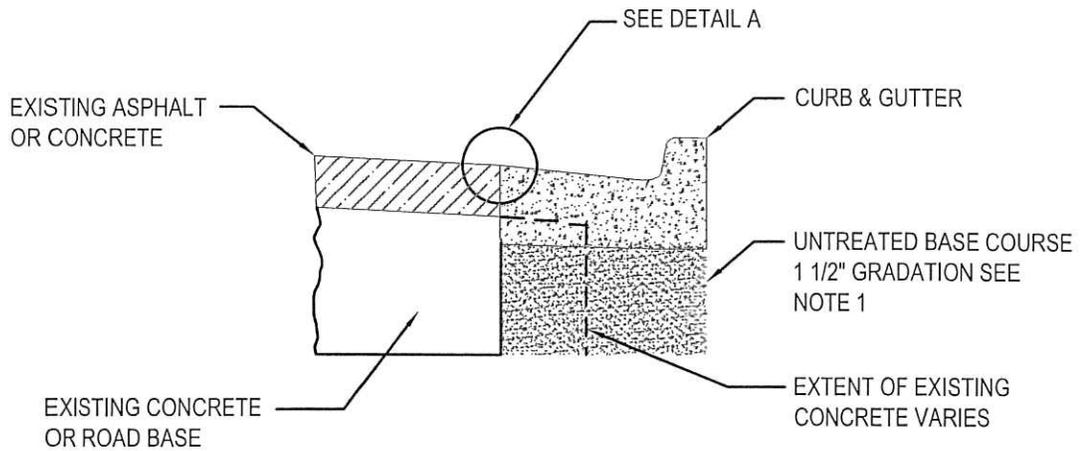
City of West Jordan, Utah



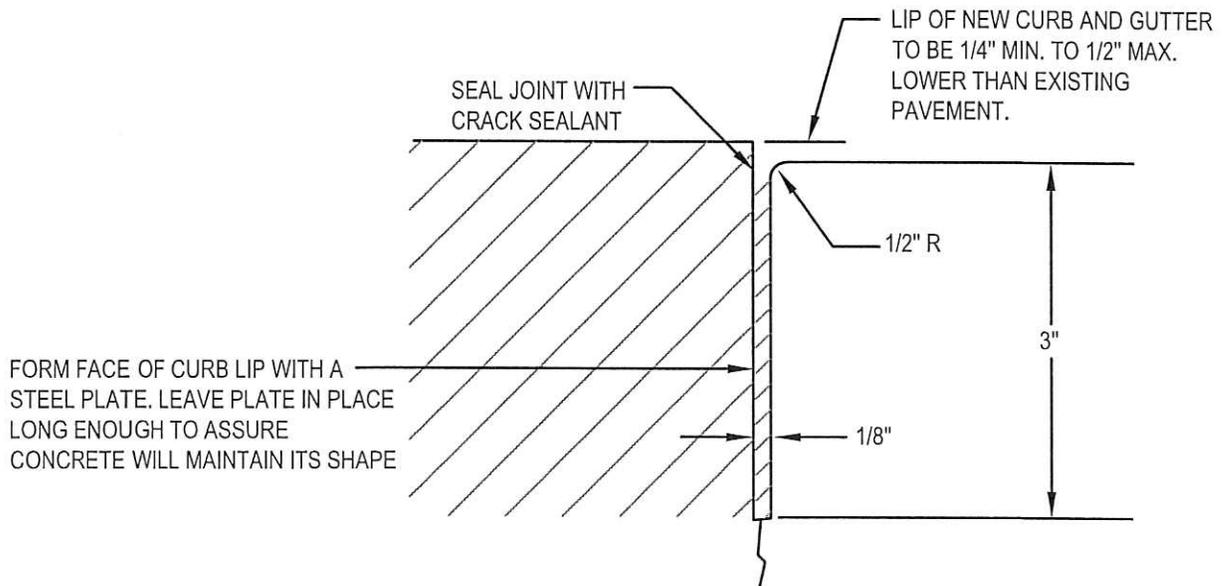
DEFECTIVE CONCRETE

STANDARD DRAWING

RD-180



SECTION



DETAIL A

NOTES:

1. BACK FILL: INSTALL ALL BACK FILL IN LIFTS NOT EXCEEDING 6" AFTER COMPACTION. COMPACT EACH LIFT TO A MINIMUM DRY DENSITY OF 95% OF OPTIMUM.
2. JOINTS: PROVIDE A NEAT STRAIGHT JOINT BETWEEN EXISTING AND NEW ASPHALT PAVEMENT SURFACES. SAW CUT JOINT IF EXISTING PAVEMENT EXCEEDS 3 INCHES IN THICKNESS, OR IF CONCRETE UNDERLIES ASPHALT PAVEMENT.
3. ROAD BASE THICKNESS: MATCH EXISTING ROAD BASE OR A MINIMUM OF 8 INCHES OF UNTREATED BASE COURSE MATERIAL

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



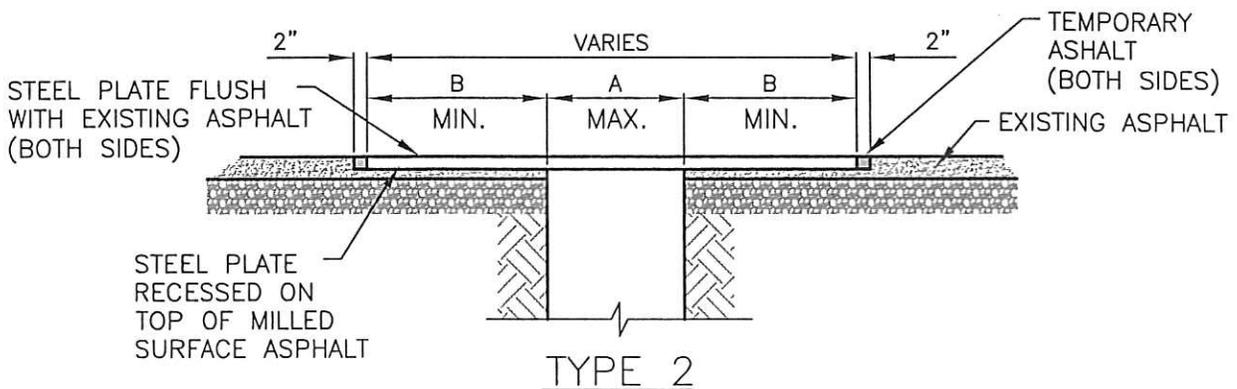
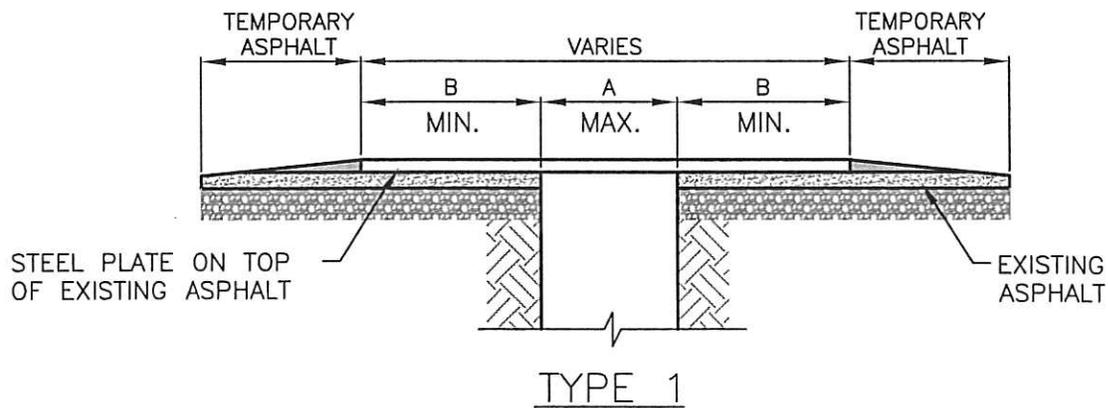
**REMOVE AND REPLACE CURB & GUTTER
WITHOUT PAVEMENT TIE-IN**

STANDARD DRAWING

RD-185

NOTES:

1. USE TYPE 1 OR TYPE 2 DETERMINED BY CITY INSPECTOR(S).
2. FOR TYPE 2 PLATE INSTALLATION, THE STEEL PLATE SHALL BE RECESSED BY MILLING INTO THE EXISTING ASPHALT TO SET FLUSH WITH THE SURFACE OF THE EXISTING ASPHALT. FULL DEPTH CUTTING OF PAVEMENT SECTION OUTSIDE OF TRENCH IS NOT PERMITTED. MILLING DEPTH SHALL MATCH THICKNESS OF PLATE. THE GAP BETWEEN THE EDGE OF THE PLATE AND THE ADJACENT EXISTING ASPHALT PAVEMENT MUST BE FILLED WITH TEMPORARY ASPHALT.
3. TRENCH WIDTHS ARE BASED ON AN ANALYSIS PER THE 14TH EDITION OF STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES BY AASHTO. AN ASSUMED AXLE LOADING OF 12 TONS WITH A 30% IMPACT FACTOR WAS USED. THE AXLE LENGTH IS 6 FEET. THEREFORE THE NUMBER OF WHEELS CARRIED BY A PLATE DEPENDS ON THE ROADWAY WIDTH.
4. STEEL PLATE MUST BE ABLE TO WITHSTAND H-20 TRAFFIC LOADINGS WITHOUT ANY MOVEMENTS.
5. PLATES SHALL BE FABRICATED FROM ASTM A36 STEEL (MIN.)
6. PLATES SHALL BE SECURED FROM LATERAL MOVEMENT AND VERTICAL VIBRATION (ASSOCIATED NOISE) WHILE IN USE BY TEMPORARY ASPHALT (COLD MIX.)
7. APPROPRIATE SIGNAGE REQUIRED



DRAWING UPDATED AUGUST 2014

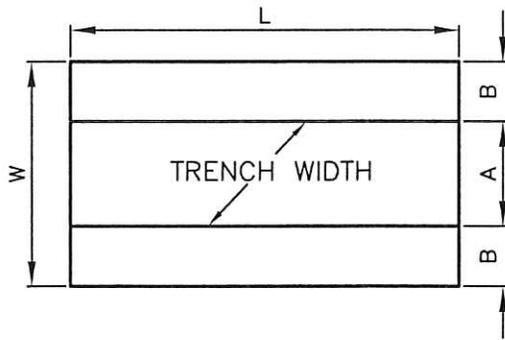
City of West Jordan, Utah



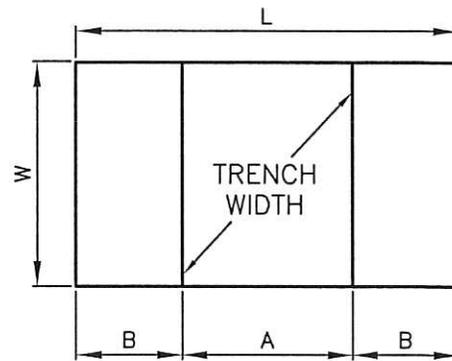
STANDARD TRENCH PLATING DETAIL

STANDARD DRAWING

RD-195



LONGITUDINAL
STEEL PLATE



TRANSVERSE
STEEL PLATE

		PLATE SIZE				
LONGITUDINAL					TRANSVERSE	
(A)	(B)	THICKNESS	(W)	(L)	(A)	(B)
12"	18"	1"	4'	8'	58"	19"
12"	18"	1"	4'	10'	58"	31"
24"	18"	1"	5'	10'	70"	25"
36"	18"	1"	6'	10'	44"	38"
48"	18"	1"	7'	10'	52"	34"
60"	18"	1"	8'	10'	58"	31"
12"	18"	1-1/4"	4'	15'	88"	47"
24"	18"	1-1/4"	5'	12'	104"	20"
36"	18"	1-1/4"	6'	12'	66"	39"
36"	18"	1-1/4"	6'	16'	66"	63"
48"	18"	1-1/4"	7'	12'	76"	33"
48"	18"	1-1/4"	7'	16'	76"	58"
60"	18"	1-1/4"	8'	12'	86"	29"
60"	18"	1-1/4"	8'	15'	86"	47"
60"	18"	1-1/4"	8'	16'	86"	63"
60"	18"	1-1/4"	8'	20'	86"	77"
60"	18"	1-3/8"	8'	20'	102"	69"

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah

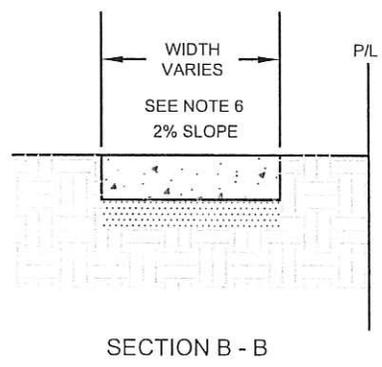
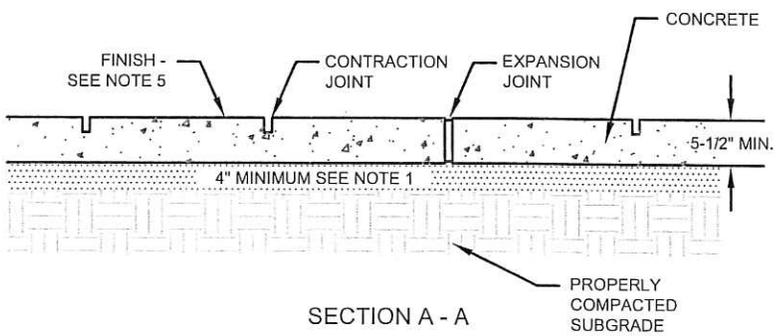
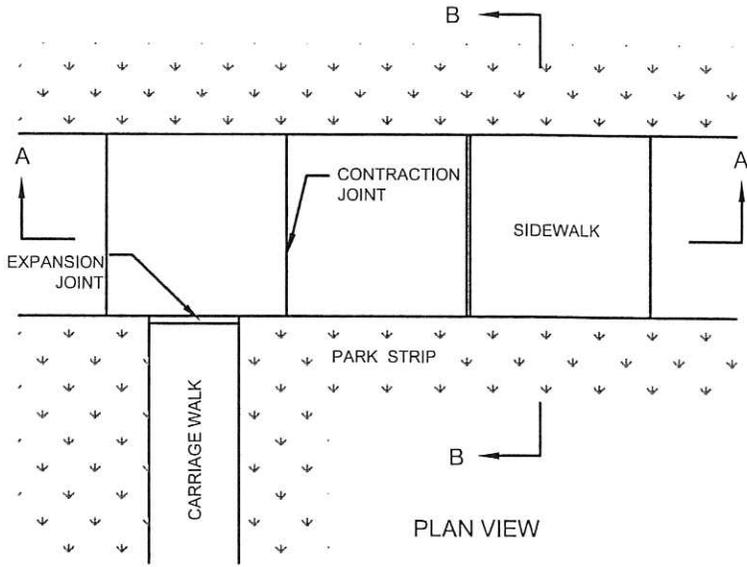


STANDARD TRENCH PLATING DETAIL

STANDARD DRAWING

RD-195

1. SELECT FILL:
 - A. Use untreated base coarse grade 1 or grade 3/4 per APWA Section 32 11 23. Use of sewer rock or recycled aggregate requires ENGINEER's written approval.
 - B. Install and compact all backfill material per APWA Section 32 05 10.
2. CONCRETE: Class 4000 per APWA Section 03 30 04.
 - A. If necessary, provide concrete which achieves design strength in 72 hours (3 days). Use caution, however, as spider cracks develop if air temperature exceeds 90 degrees F.
 - B. Place concrete per APWA Section 03 30 10.
 - C. Provide 1/2 inch radius on all exposed concrete edges unless otherwise shown.
 - D. Apply a sealing/curing compound per APWA Section 03 39 00.
3. EXPANSION JOINTS: Provide full depth 1/2 inch thick F1 joint filler material per APWA Section 32 13 73. Set top of filler flush with surface of concrete. Place joints every 50 feet.
4. CONTRACTION JOINTS: Make contraction joints vertical, at least 1/8 inch wide, and 1/4 slab thickness if the slab is greater than 8 inches thick. Place joints to create square concrete panels.
5. FINISH: Fine hair broom on longitudinal grades under 6% and rough hair broom grades over 6%.
6. WIDTH OF SIDEWALK:
 - A. 5 feet min. in all areas, and 6' or greater when adjacent to curb
 - B. Width varies when adjacent to curb and gutter. (Dowels required @ 5' intervals when sidewalk is adjacent to curb.)
7. Parkstrip area and area behind sidewalk must be back filled within 2" of top grade of sidewalk.



DRAWING UPDATED AUGUST 2014

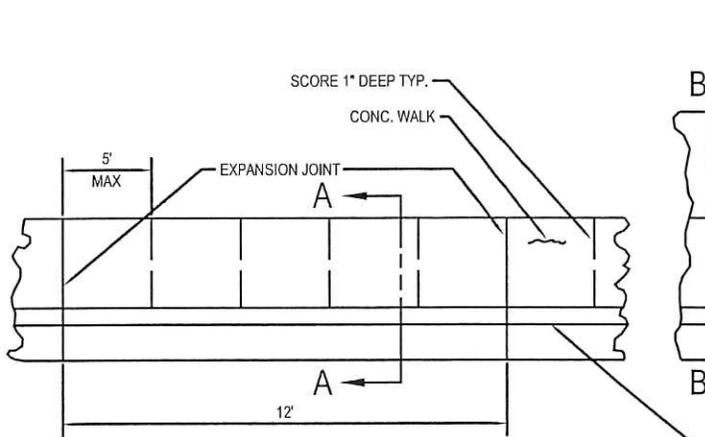
City of West Jordan, Utah



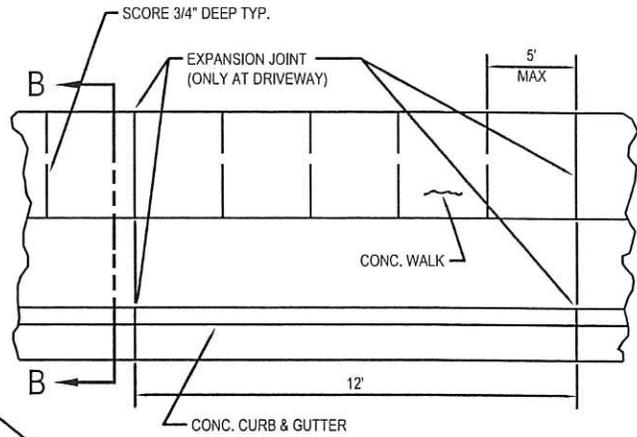
STANDARD SIDEWALK

STANDARD DRAWING

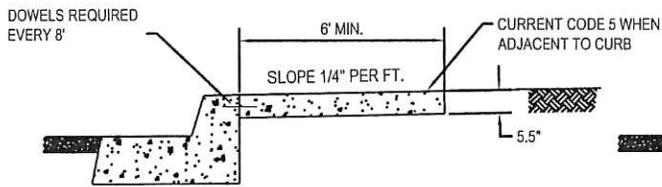
RD-200



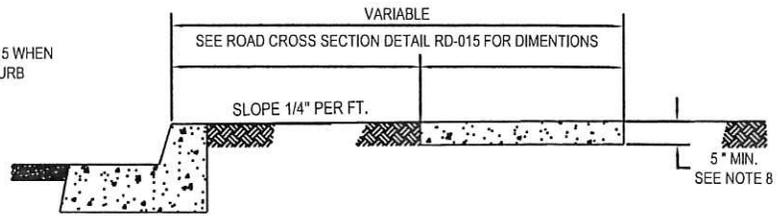
MONOLITHIC SIDEWALK
(WITH SPECIAL APPROVAL ONLY)



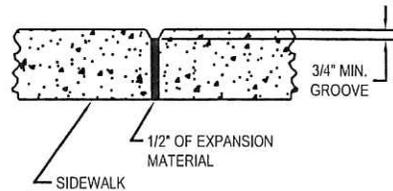
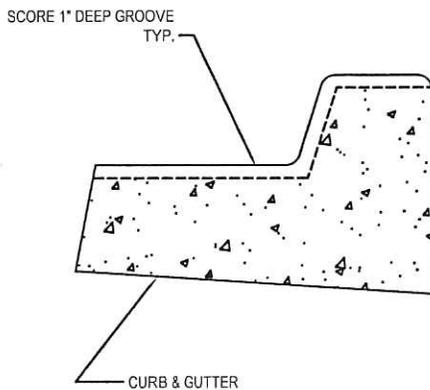
DETACHED SIDEWALK
(TYP.)



SECTION A-A



SECTION B-B



EXPANSION JOINTS

NOTES:

1. PROVIDE FULL EXPANSION JOINTS IN CURBS AND SIDEWALKS AT EACH SIDE OF DRIVEWAYS AND AT B.C. AND E.C. OF CURVES.
2. WHEN SOIL EXPANSION > 30 PLACE ASB UNDER CURBS AND SIDEWALKS. SEE STD. ??
3. REMOVALS OF CURB, GUTTER OR SIDEWALK SHALL BE ACCOMPLISHED BY SAW CUTTING AND SHALL NOT LEAVE FLOATING PIECES < 8' LONG.
4. ALL CONCRETE SHALL BE CLASS 4000.

DRAWING UPDATED SEPTEMBER 2014

City of West Jordan, Utah



SIDEWALK CONSTRUCTION

1 OF 2

STANDARD DRAWING

RD-205

NOTES

1. BACK FILL: INSTALL ALL BACK FILL IN LIFTS NOT EXCEEDING 6" AFTER COMPACTION. COMPACT EACH LIFT TO AN AVERAGE DRY DENSITY OF 96% OF OPTIMUM WITH NO DENSITY TEST RESULT LESS THAN 92% OF OPTIMUM
2. CONCRETE: USE CLASS 4,000 PORTLAND CEMENT CONCRETE. IN COMMERCIAL AND INDUSTRIAL ZONES USE CONCRETE WHICH ACHIEVES DESIGN STRENGTH IN 72 HOURS (3 DAYS), WHEN NECESSARY. APPLY A LIQUID MEMBRANE CURING COMPOUND OR USE AN ACCEPTABLE ALTERNATE CURING METHOD
3. CONTRACTION JOINTS: PLACE JOINTS TO CREATE SQUARE CONCRETE PANELS. MAXIMUM LENGTH TO WIDTH RATIO FOR NON-SQUARE PANELS IS 1.5 TO 1. MAXIMUM PANEL WIDTH OR LENGTH IS 15 FEET. MAKE JOINTS 1/8" WIDE AND AT LEAST 1" DEEP
4. EXPANSION JOINTS: PLACE 1/2" TYPE F1 JOINT FILLER FULL DEPTH WITH TOP SET FLUSH WITH SURFACE OF CONCRETE. DO NOT APPLY SEALANT OVER EXPANSION JOINT FILLER
5. EDGE SIDEWALK WITH 1/2" RADIUS EDGING TOOL. ROUND EDGES AT EXPANSION JOINTS TO A RADIUS OF 1/2"
6. FINISH: FINE HAIR BROOM ON GRADES UNDER 6% AND ROUGH HAIR BROOM ON GRADES OVER 6%
7. WIDTH OF SIDEWALK (W): CONSTRUCT WIDTH AS FOLLOWS
 - A) 5 FEET MIN. IF SIDEWALK IS IN A RESIDENTIAL AREA, AND 6' OR GREATER WHEN ADJACENT TO CURB
 - B) MATCH EXISTING SIDEWALK EXTENSION WIDTHS WHERE THEY EXCEED CURRENT WIDTH STANDARDS
8. DEPTH OF SIDEWALK (D): CONSTRUCT DEPTH AS FOLLOWS
 - A) 5.5" IN RESIDENTIAL ZONES. 6" IN COMMERCIAL AND INDUSTRIAL ZONES
 - B) 6" WHEN LOCATION OF DRIVEWAY APPROACH IS NOT KNOWN OR WHEN SIDEWALK IS ADJACENT TO A TYPE C, D, E OR F CURB AND GUTTER. SEE STANDARD PLAN 205
 - C) 6" ADJACENT TO RESIDENTIAL ZONE DRIVEWAY APPROACHES
 - D) 8" ADJACENT TO INDUSTRIAL AND COMMERCIAL ZONE DRIVEWAY APPROACHES

DRAWING UPDATED SEPTEMBER 2015

City of West Jordan, Utah



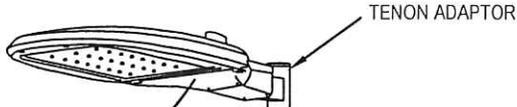
CONCRETE SIDEWALK

2 OF 2

STANDARD DRAWING

RD-205

LED STYLE



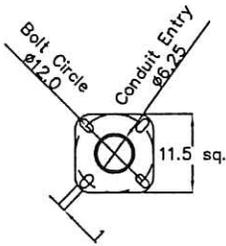
ARTERIAL ROADWAY
 HOLOPHANE
 ATB260BLEDE53MVOLTR3PCLL
 BLACK OR APPROVED EQUAL

TRAFFIC SIGNAL INTERSECTIONS
 PHILIPS HADCO
 RX2120-A3NA5RNSN LUMINAIRE
 BLACK OR APPROVED EQUAL

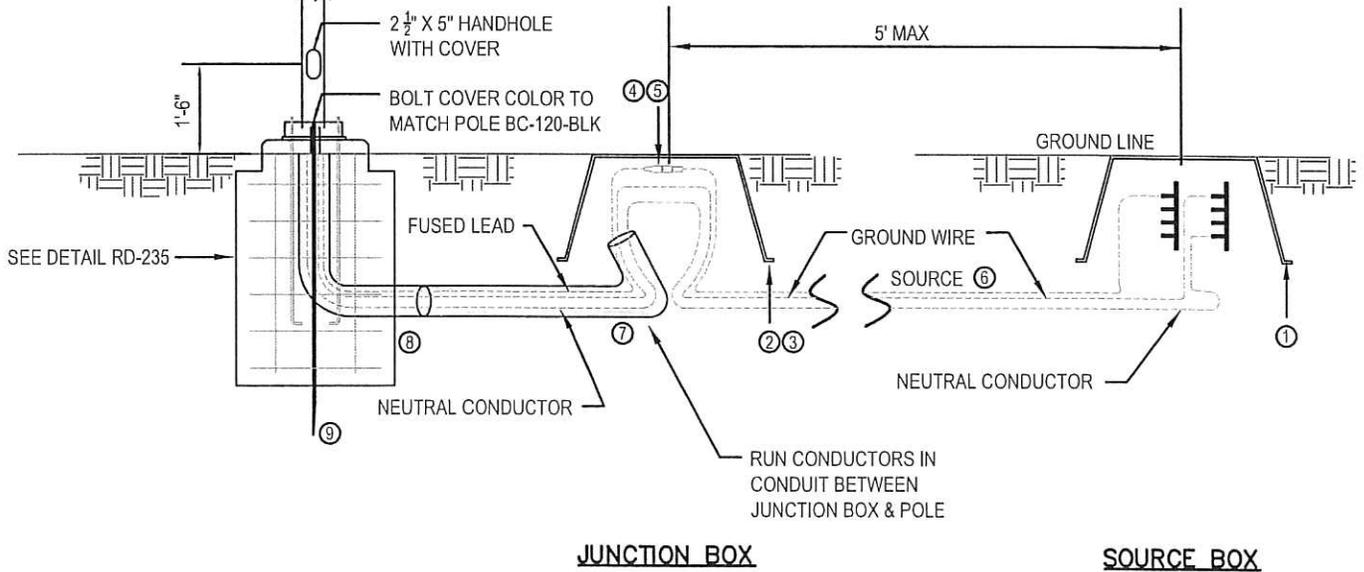
TENON ADAPTOR

NO.	DESCRIPTION
1.	U. P. & L. BOX, VOLTAGE SOURCE FOR CIRCUIT.
2.	JUNCTION BOX, UNDERGROUND, STREET LIGHT, SMALL PLASTIC, FOR NO OR LOW TRAFFIC AREAS CARSON L SERIES 1419-12 BOX OR EQUIVALENT SHOULD BE PLACED AT GRADE LEVEL, WITHIN FIVE FEET OF SOURCE BOX.
3.	JUNCTION BOX, UNDERGROUND, POLYMER CONCRETE AND FIBERGLASS WITH POLYMER CONCRETE COVER OR CONCRETE BOX WITH STEEL COVER, TO BE USED IN HIGH TRAFFIC AREAS
4.	INLINE FUSE HOLDER, WITH WATER PROOF BOOTS HOMAC, SLK-M OR EQUIVALENT. USE GELCAP SL FOR ALL SPLICE CONNECTIONS.
5.	FUSE, 10 A, 600 V, KTK, FNM, OR EQUIVALENT
6.	CONDUCTOR #6 OR #8 COPPER STRANDED DIRECT BURIAL WIRE
7.	CONDUIT 1-1/4" MIN. PVC ELECTRICAL GRADE.
8.	ANCHOR BASE, SEE DETAIL RD-235.
9.	GROUND ROD, 8 FOOT 5/8 CU CLAD GROUND ROD.

ANCHOR PLATE DETAIL



30' TAPERED SMOOTH FIBERGLASS
 PAINTED BLACK HOLOPHANE
 RT34-30-AB-BLK-SMS
 BK. OR APPROVED EQUAL



JUNCTION BOX

SOURCE BOX

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



COLLECTOR AND ARTERIAL STREET LIGHT

STANDARD DRAWING

RD-215

1 OF 2

NOTES: COLLECTOR STREETLIGHT

POLE TYPE: A 30-FOOT, BLACK FIBERGLASS SMOOTH FINISH ANCHOR BASE POLE WITH A TENON ADAPTOR TOP IS STANDARD.

POLE INSTALLATION: ALL POLES SHALL BE LOCATED AS SPECIFIED ON THE PLANS. THE POWER COMPANY SHALL APPROVE THE FINAL LOCATION OF ALL POLES LOCATED NEAR A COLLECTOR STREET OR NEAR OVERHEAD LINES. ALL ANCHOR BASES SHALL BE INSTALLED AS SHOWN ON DRAWING RD-235.

JUNCTION BOX INSTALLATION: USE SMALL PLASTIC, FOR NO OR LOW TRAFFIC AREAS CARSON 1419-12-4B-GRN-STREETLIGHTING OR EQUIVALENT. USE POLYMER CONCRETE AND FIBERGLASS WITH POLYMER CONCRETE COVER OR CONCRETE BOX WITH STEEL COVER IN HIGH TRAFFIC AREAS. BOX SHOULD BE PLACED A GRADE LEVEL WITHIN 5 FEET OF UP&L SOURCE BOX AND AT ADDITIONAL POINTS WHEN CONDUIT RUNS ARE MORE THAN 350 FEET. PREPARE THE EXCAVATION APPROXIMATELY 6 INCHES DEEPER THAN THE DEPTH OF THE BOX. THEN ADD 6 TO 8 INCHES OF GRAVEL OR CRUSHED ROCK FOR DRAINAGE. FILL AND COMPACT SOIL TO GRADE LEVEL WITH COVER ON BOX. INSTALL INLINE FUSE HOLDER WITH WATERPROOF BOOTS, HOMAC, SLK-M OR EQUIVALENT WITH A 10 A BLF, OR EQUIVALENT FUSE INSIDE JUNCTION BOX INSTALL ALL SPLICED CONNECTION WITH A GELCAP SL.

CONDUCTORS: THE CONTRACTOR SHALL INSTALL THREE DIRECT BURIAL COPPER STRANDED WIRES #6 OR #8 AWG WIRE TO EACH STREETLIGHT FROM THE NEAREST UP&L SOURCE (1 BLACK 2 WHITE 3 GREEN). USE LOAD CALCULATIONS TO DETERMINE SIZE. THESE CONDUCTORS SHALL BE PLACED IN A MINIMUM OF 1 ¼ PVC ELECTRICAL CONDUIT BETWEEN JUNCTION BOX AND ANCHOR BASE. RUN CONDUIT IN STRAIGHT LINES, IN THE PUBLIC UTILITY EASEMENTS WITH A MINIMUM OF 24 INCHES OF BURIAL. CONDUIT MUST SWEEP INTO JUNCTION BOX AND ANCHOR BASE. DO NOT INSTALL SPLICES IN CONDUCTOR INSIDE CONDUIT. A PIGTAIL OR EXTRA LENGTH OF WIRE SHALL BE LEFT AT THE SOURCE FOR THE POWER COMPANY TO MAKE THE FINAL CONNECTION.

LUMINARIES: A RX180T2A3NA5RNSN LUMINARY IS STANDARD FOR ALL NEW CONSTRUCTION. A 80 LED FIXTURE SHALL BE USED ON ARTERIAL COLLECTORS, AND MAJOR COLLECTOR STREETS. ALL LUMINARIES SHALL BE OPERATED BY MEANS OF A TWIST LOCK PHOTOCELL.

LUMINARY INSTALLATION: ALL LUMINARIES, LAMPS AND PHOTOCELLS SHALL BE SECURELY MOUNTED AND PROPERLY INSTALLED AS SUGGESTED BY THE MANUFACTURER.

TESTING: THE CONTRACTOR SHALL BE RESPONSIBLE TO TEST EACH STREETLIGHT ONCE INSTALLED. ANY NECESSARY REPAIRS TO THE SYSTEM SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGH FINAL INSPECTION BY THE CITY AND ACCEPTANCE OF THE PROJECT.

FINAL ACCEPTANCE: THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL BLUE STAKING, MAINTENANCE, REPAIR OF UNDERGROUND LINES, POLES, DECORATIVE SHROUDS OR LUMINARIES TO THE LIGHTING SYSTEM UNTIL FINAL ACCEPTANCE BY THE CITY. A FINAL INSPECTION SHALL BE PERFORMED WHEN THE DEVELOPER REACHES TOTAL PROJECT COMPLETION AND BEFORE 100% BOND RELEASE.

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



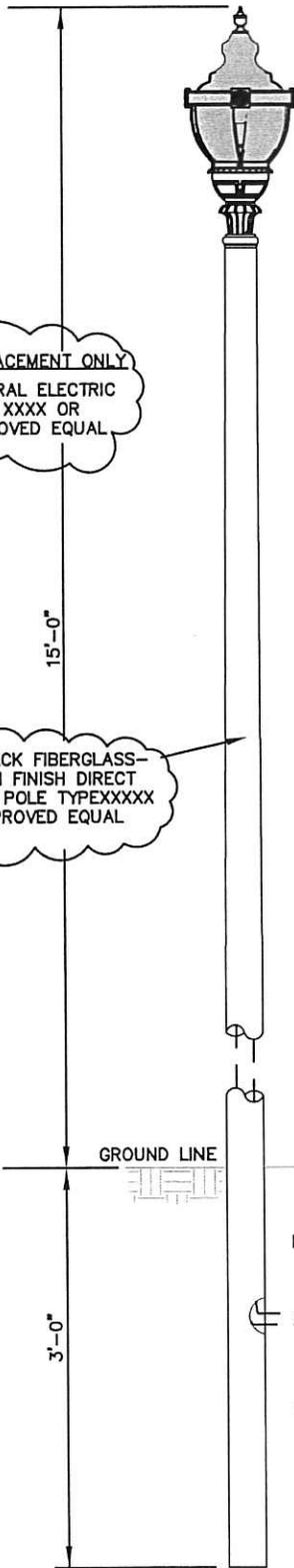
COLLECTOR AND ARTERIAL STREET LIGHT

STANDARD DRAWING

RD-220

2 OF 2

ACORN STYLE



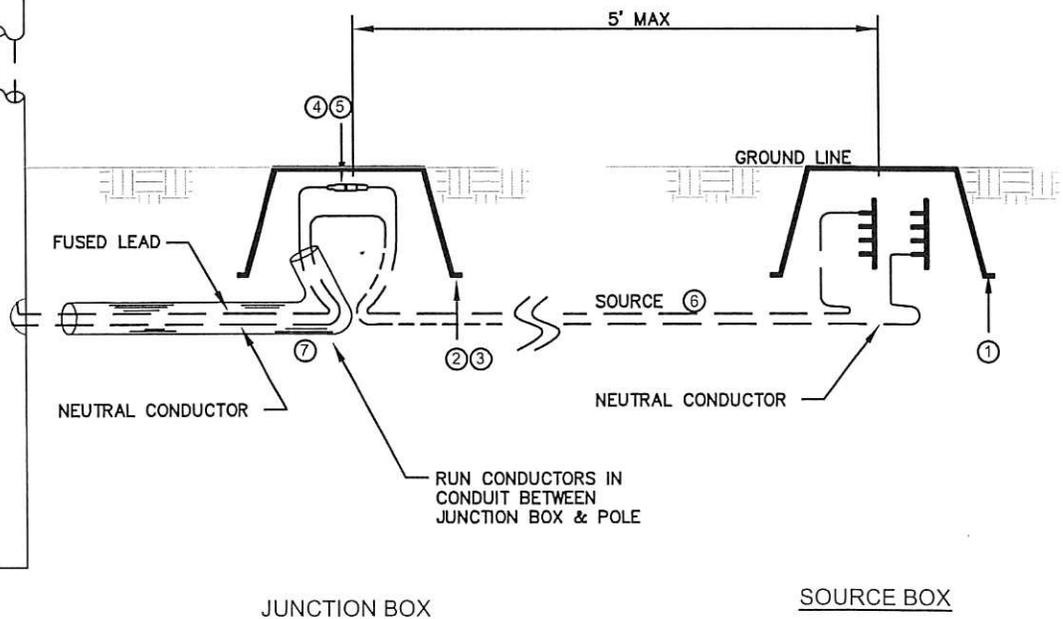
NEW INSTALLATION
HADCO C7598
RL52XCXXXNN80AN
OR APPROVED EQUAL

No.	Description
-----	-------------

1. U. P. & L. box, voltage source for circuit.
2. Junction box, underground, street light, small plastic, for no or low traffic areas
* Box should be placed at grade level, within five feet of source box.
* * If ground is required, it should be placed inside box
3. Junction box, underground, polymer concrete and fiberglass with polymer concrete cover or concrete box with steel cover, to be used in high traffic areas
* * * If ground is required, it should be placed inside box
4. Inline fuse holder, with water proof boots LEBAA, WPBI or equivalent.
5. Fuse, 10 A, 600 V, KTK, FNM, or equivalent
6. Conductor #6 or #8 copper stranded direct burial wire
7. Conduit 1" min. PVC electrical grade.

18' BLACK FIBERGLASS-SMOOTH FINISH DIRECT BURIAL POLE TYPE XXXX OR APPROVED EQUAL

REPLACEMENT ONLY
GENERAL ELECTRIC
TYPE XXXX OR
APPROVED EQUAL



DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



RESIDENTIAL STREET LIGHT

STANDARD DRAWING

RD-225

Notes: Residential Street Light

1. Pole Installation:

An 18 - foot, black fiberglass smooth finish direct burial pole with a 3 - inch tenon top is standard. Manufacturer must be approved by the City. Follow manufactures recommendation for pole installation. All poles shall be located as specified on the plans. If a specific pole location is in question the City Engineer shall direct its placement. All direct burial poles shall be buried at a minimum 3 foot refer to the manufacturers suggested installation guide for complete details. Do not disturb more soil than needed. If hole is too deep, use new fill and tamp soil to ensure pole base has a solid foundation. Fill should be road base on most soils * * Never reuse original soil * *

- * If soil is marshy, use pea gravel for fill.
- * Sand can be used to help set base
- * Post mix can be used at base of pole for added strength (do not cover wires or access hole.)

2. Junction box installation:

Use small plastic, for no or low traffic areas Carson 1419-12-4B-grn-street lighting or equivalent. Use polymer concrete and fiberglass with polymer concrete cover or concrete box with steel cover in high traffic areas. Box should be placed at grade level within 5 feet of U. P. & L. source box and at additional points when conduit runs are more than 200 - feet. Prepare the excavation approximately 6 inches deeper than the depth of the box. Then add 6 to 8 inches of gravel or crushed rock for drainage. Place long side of box parallel to curb unless indicated. Fill and compact soil to grade level with cover on box.

3. Conductor installation:

Contractor shall install two direct burial copper stranded wires #6 AWG or #8 AWG wire to each street light from the nearest U. P. & L. source. Use load calculations to determine size. A pigtail or extra length of wire shall be left at the source for the power company to make the connection.

These conductors shall be placed in a minimum of 1 - inch PVC electrical grade conduit between junction box and pole. Run conduit in straight lines, in the public utility easements with a minimum of 24 inches of burial. Conduit must be stubbed to within 1 foot of pole base and sweep into junction box. Do not install splices in conduit. Install inline fuse holder with waterproof boots LEBAA, WPBI or equivalent with a 10 A 600 V KTK, FNM or equivalent fuse inside junction box.

4. Luminaries:

A. TYPE: An acorn top style luminary is standard for all new construction unless otherwise approved. A 70 Watt high pressure sodium lamp and fixture shall be used. All luminaries shall be operated by means of a twist lock photocell. Manufacturer must be approved by the city.

B. INSTALLATION: All luminaries, lamps, and photocells shall be securely mounted and properly installed as suggested by manufacturer. All luminaries shall have wattage decals placed as to be visible at grade level.

4. Testing:

The contractor shall be responsible to test each street light once installed. Any necessary repairs to the system shall be the responsibility of the contractor through final inspection by the City and acceptance of the project.

5. Final Acceptance:

The developer shall be responsible for all blue staking, maintenance, repair of underground lines, poles shrouds or luminaries to the lighting system until final acceptance by the City. A final inspection shall be performed when the developer reaches total project completion and before 100% bond release.

DRAWING UPDATED AUGUST 2014

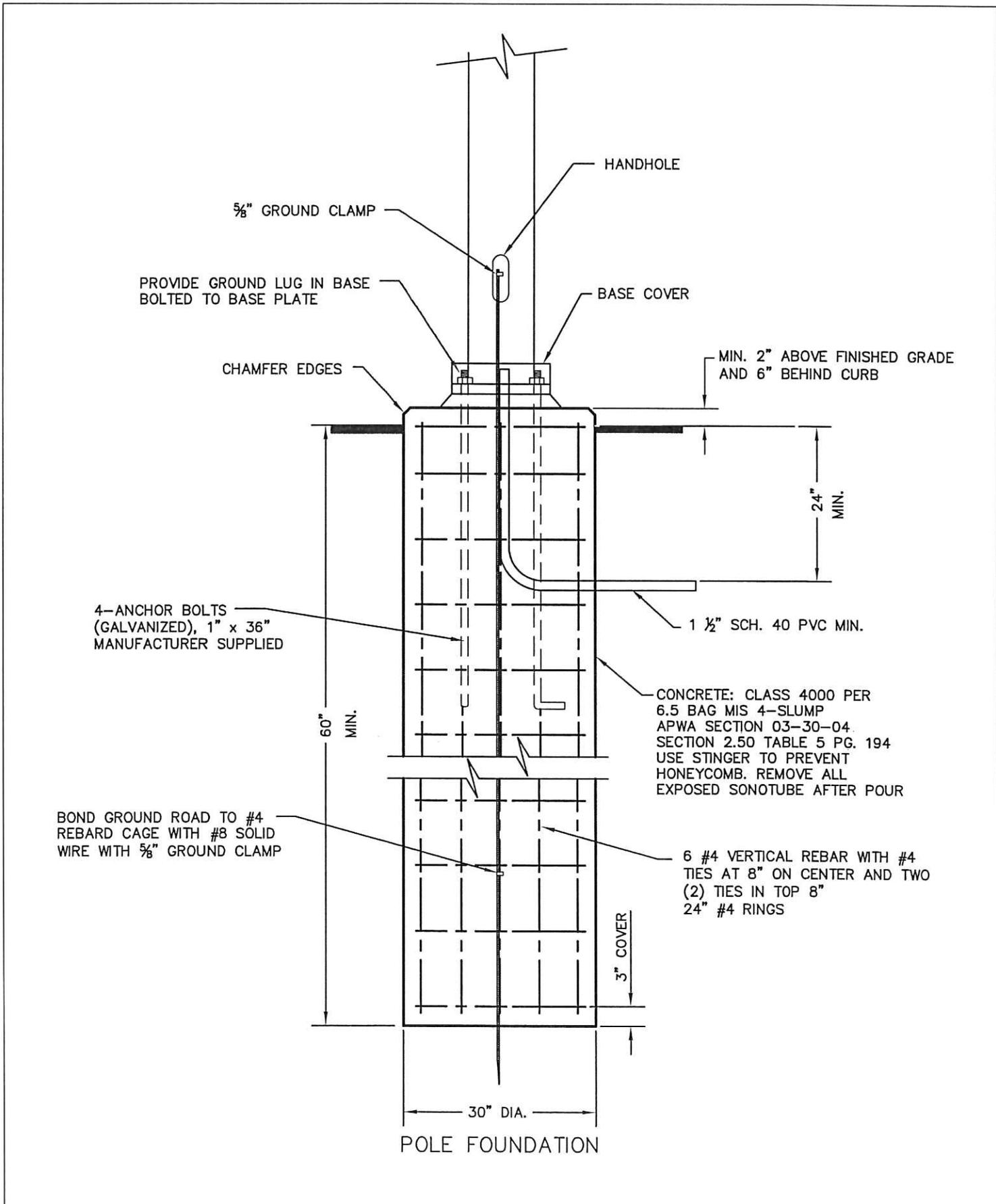
City of West Jordan, Utah



RESIDENTIAL STREET LIGHT - NOTES

STANDARD DRAWING

RD-230



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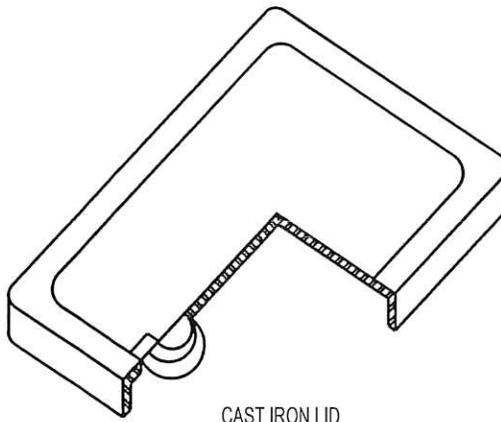
City of West Jordan, Utah



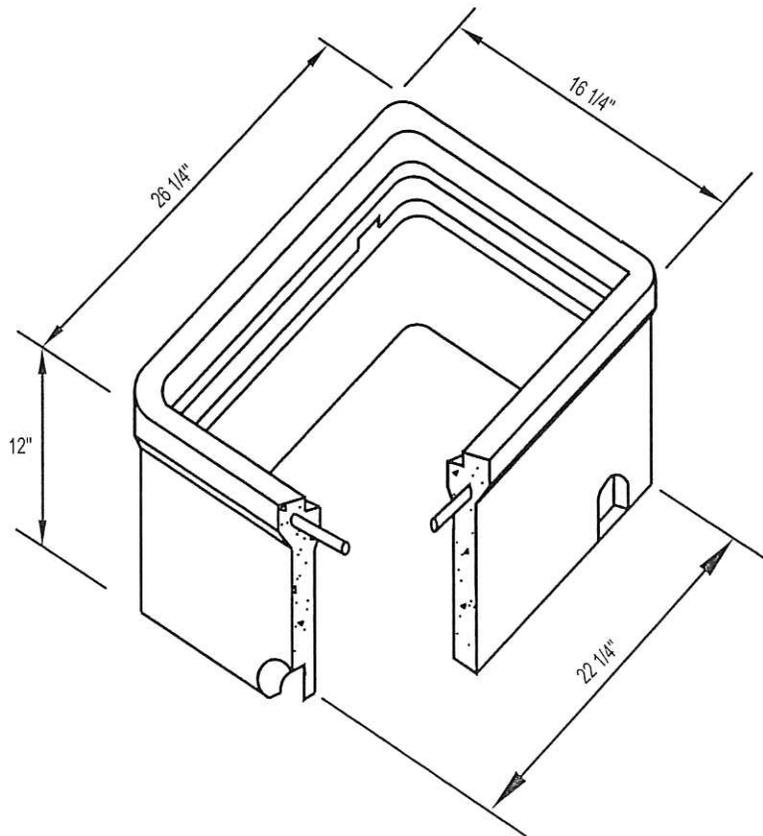
LIGHT POLE FOUNDATION

STANDARD DRAWING

RD-235



CAST IRON LID
NTS



LIGHT PULL BOX DETAIL
NTS

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah

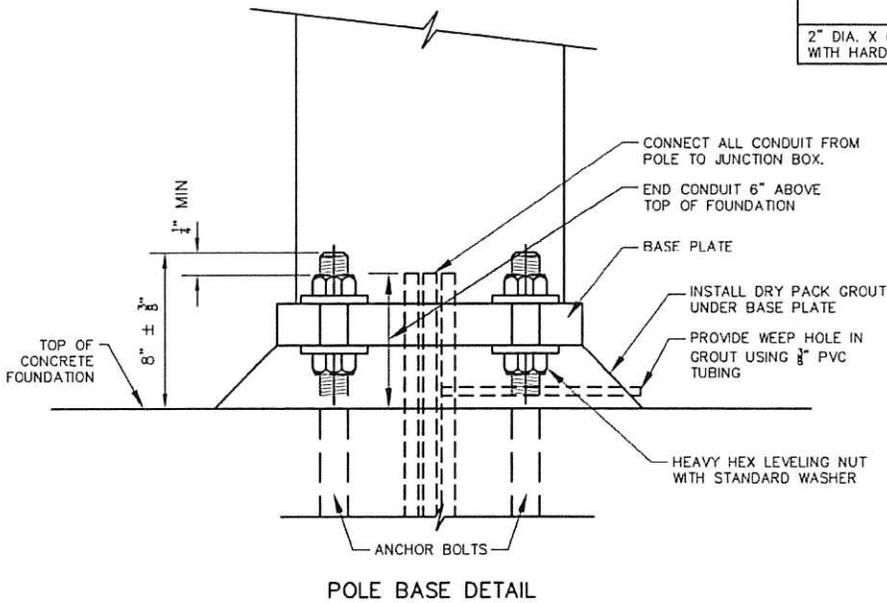


PULL BOX

STANDARD DRAWING

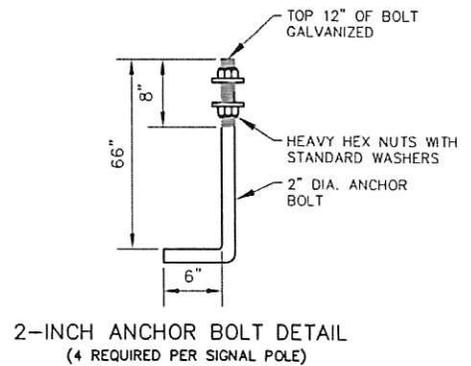
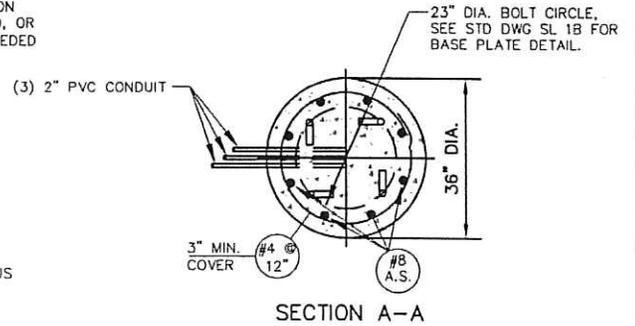
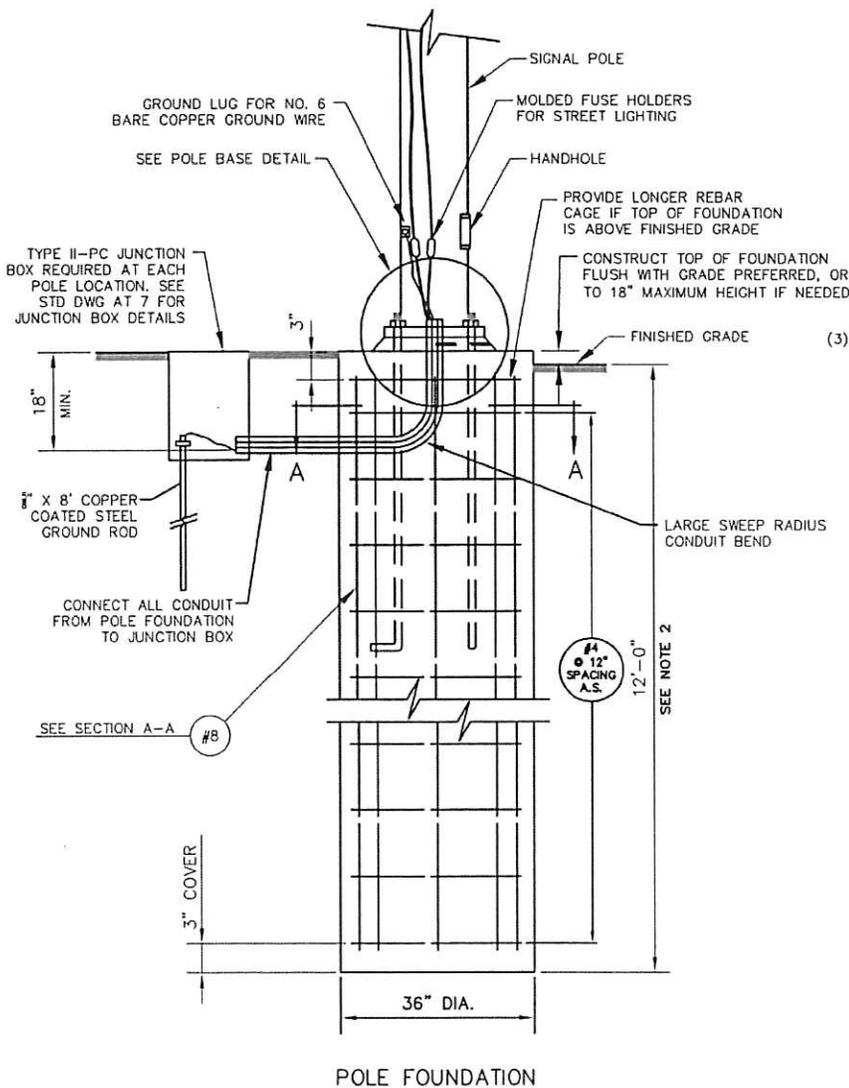
RD-240

STATE FURNISHED ITEMS	
ITEM	CONTENTS
2" DIA. X 66" ANCHOR BOLT WITH HARDWARE	ANCHOR BOLT, WASHERS, AND NUTS.



NOTES:

1. TIGHTEN ANCHOR BOLT NUTS TO SNUG-TIGHT PLUS $\frac{1}{2}$ TURN.
2. CAST ALL FOUNDATIONS IN PLACE AGAINST UNDISTURBED EARTH WITH 12" OF ITS LENGTH BELOW FINISH GRADE. DO NOT WELD REINFORCING STEEL.
3. USE A CIRCULAR FORM FOR THE TOP 18" OF FOUNDATION EMBEDMENT.
4. INSTALL ANCHOR BOLTS SQUARE WITH ROADWAY OR AT ANGLE SPECIFIED ON PLAN SHEETS.
5. PLACE ALL CONDUIT IN SAME TRENCH WHERE POSSIBLE.
6. USE EPOXY COATED REBARS AND CLASS AA(AE) CONCRETE FOR FOUNDATION.
7. USE STATE FURNISHED ANCHOR BOLTS. DO NOT WELD ANCHOR BOLT TO THE REINFORCING STEEL.
8. CAP CONDUIT ON BOTH ENDS PRIOR TO FOUNDATION POUR.



DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



SIGNAL POLE FOUNDATION

STANDARD DRAWING

RD-245

NOTES:

1. BACK FILL: INSTALL ALL BACK FILL IN LIFTS NOT EXCEEDING 6" AFTER COMPACTION. COMPACT EACH LIFT TO AN AVERAGE DRY DENSITY OF 96% OF OPTIMUM WITH NO DENSITY TEST RESULT LESS THAN 92% OF OPTIMUM
2. CONCRETE: USE CLASS 4,000 PORTLAND CEMENT CONCRETE. APPLY A LIQUID MEMBRANE CURING COMPOUND OR USE AN ACCEPTABLE ALTERNATE CURING METHOD
3. ANCHOR BOLTS: WHEN FOOTING IS LOCATED IN AN AREA TO BE PAVED, THE TOP OF THE FOOTING IS TO BE PLACED 4" BELOW FINISH GRADE WITH BOLTS EXTENDING 11-1/2" ABOVE TOP OF FOOTING TO ACCOMMODATE PAVING SURFACE
4. REINFORCEMENT: USE ASTM A 615 GRADE 60 DEFORMED STEEL REBAR. PLACE REBAR PER CRSI MANUAL OF STANDARD PRACTICE

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



SIGNAL POLE FOUNDATION

STANDARD DRAWING

RD-245

NOTES:

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DRAWING UPDATED AUGUST 2014

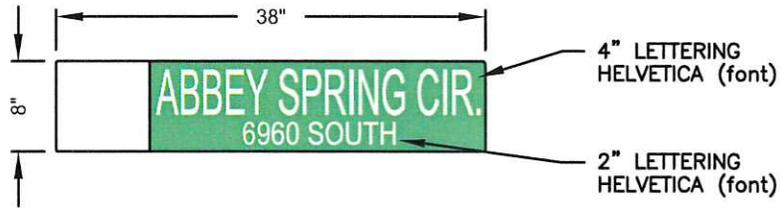
City of West Jordan, Utah



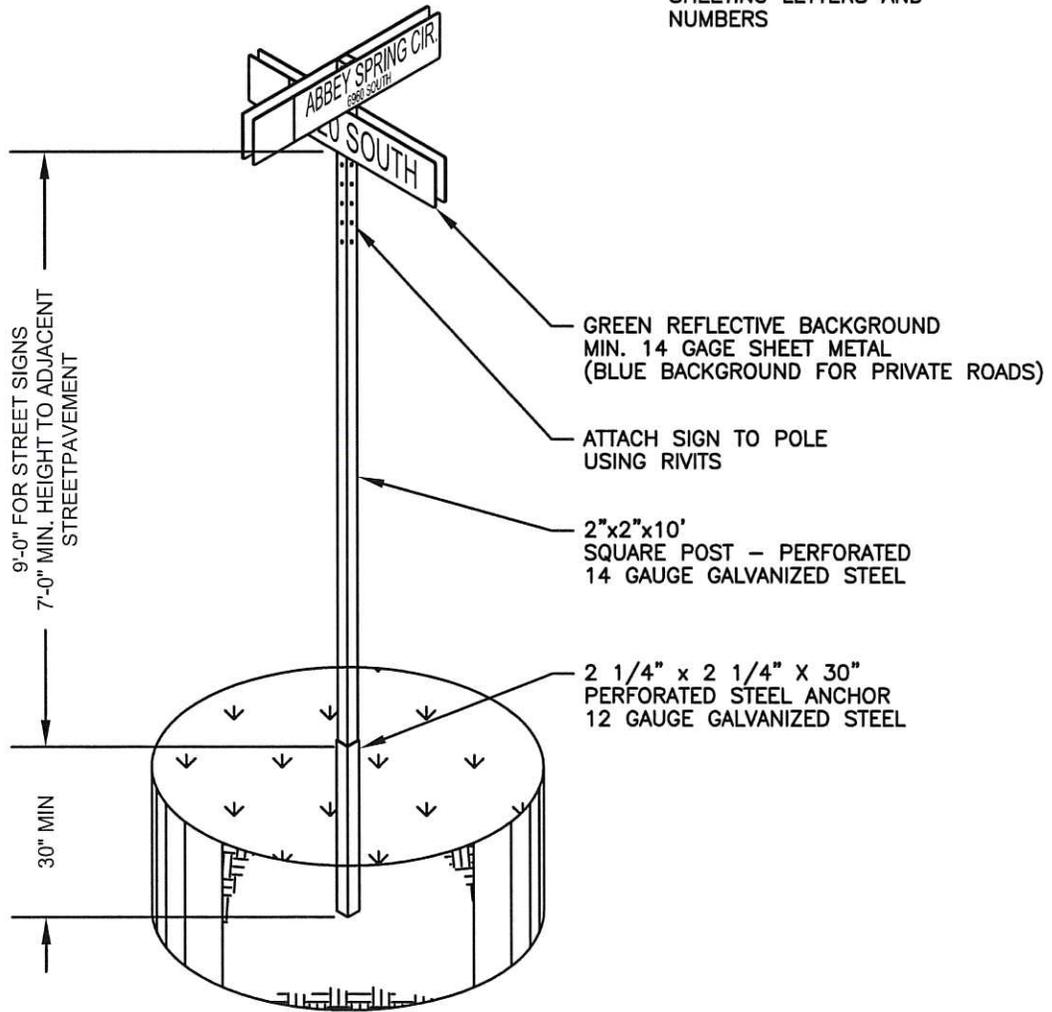
SIGNAL POLE FOUNDATION

STANDARD DRAWING

RD-245



WHITE REFLECTIVE HIGH
INTENSITY OR PRISMATIC
SHEETING LETTERS AND
NUMBERS



NO STOP SIGNS ALLOWED ON STREET SIGN

DRAWING UPDATED AUGUST 2014

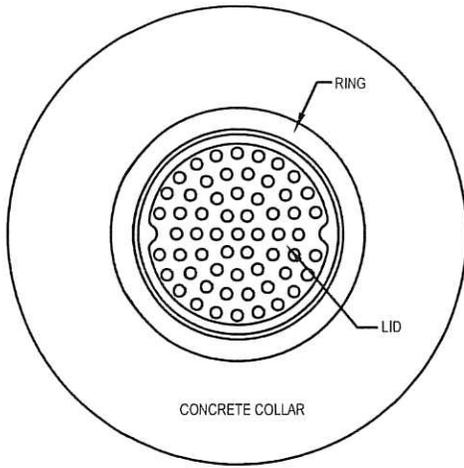
City of West Jordan, Utah



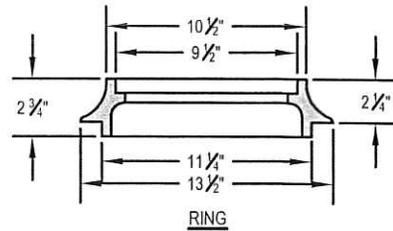
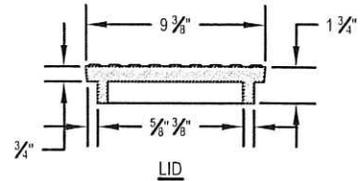
STREET SIGN

STANDARD DRAWING

RD-250

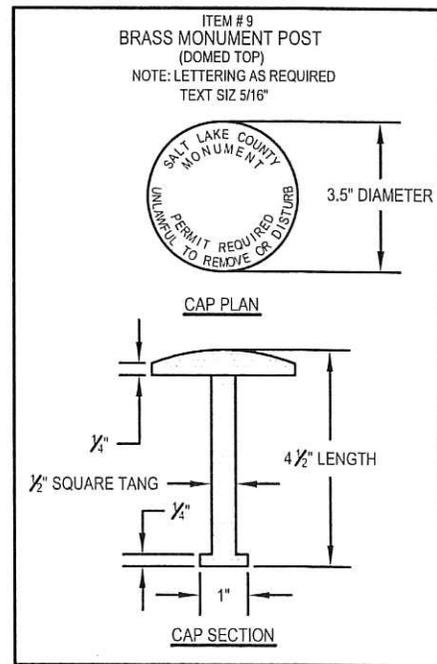


PLAN VIEW

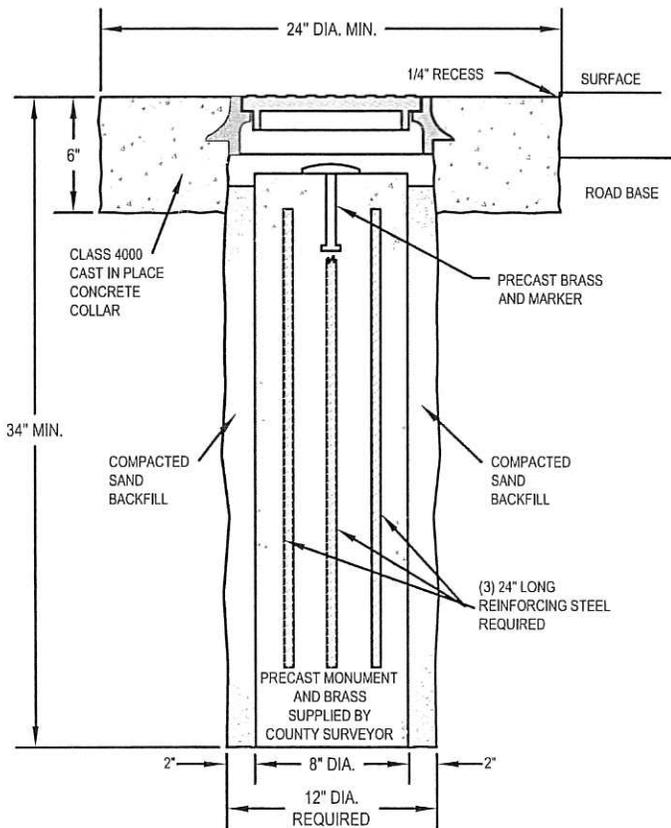


RING AND LID
 CAST IRON TO CONFORM TO ASTM
 A-48, CLASS 35B
 H-20 WHEEL LOADING
 EST. WEIGHT: 43 LBS.

BRASS



NOTE:
 POUR IN PLACE MONUMENTS MAY BE ALLOWED ON A CASE BY CASE BASIS, SUBJECT TO PRIOR APPROVAL BY THE SALT LAKE COUNTY SURVEYOR.



COUNTY STREET MONUMENT SECTION

NOTES:

- MATERIALS, CONSTRUCTION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH APWA MANUAL OF STANDARD SPECIFICATIONS (2002 EDITION), AND SUPPLEMENTS THERETO WHICH ARE IN EFFECT AT THE DATE OF THIS REQUEST.
- COUNTY MONUMENT COVER, FRAME AND PRECAST BRASS AND MARKER BASE SHALL BE FURNISHED THE COUNTY AS PROVIDED IN THE PERMITTING PROCESS
- COVER, FRAME, RISER AND PRE CAST BRASS AND MARKER BASE CAN BE OBTAINED AT PUBLIC WORKS OPERATION 7125 SOUTH 600 WEST, MIDVALE UTAH 84047. THE DEVELOPER, CONTRACTOR, OR AGENT SHALL BE RESPONSIBLE FOR THE TRANSPORTATION OF THE ALL MONUMENTS AND INCIDENTAL ITEMS REQUIRED TO COMPLETE THE MONUMENT INSTALLATION,
- THE COUNTY SURVEYOR SHALL CHECK MONUMENT POINT AND STRADDLES BEFORE MONUMENTS CAN BE INSTALLED.
- REINFORCING STEEL USED IN COUNTY SURVEY MONUMENTS SHALL BE NO. 4 BARS.
- THE COUNTY SURVEYOR SHALL CROSS BRASS MAKER AFTER INSTALLATION OF SURVEY MONUMENT.
- CONTRACTOR SHALL ALLOW THE COUNTY SURVEYOR AN OPPORTUNITY TO SALVAGE ALL EXISTING MONUMENTS, SPECIFICALLY, RINGS RISERS, LIDS AND BRASS MAKERS.
- FIELD INSPECTION BY GOVERNING ENTITY REQUIRED PRIOR TO INSTALLATION OF MONUMENT.
- THE NON-USE OF ANY MATERIALS RECEIVED FROM SALT LAKE COUNTY SHALL NOT CONSTITUTE A CLAIM OF CREDIT.
- DEVELOPER/AGENT SHALL PROVIDE COPIES OF APPROVED AND RECORDED SUBDIVISION PLATS, STREET DEDICATIONS, OR AFFIDAVIT OF CORRECTIONS SHOWING COORDINATES OF NEW MONUMENTS AND THEIR RELATIONSHIP TO MONUMENT CONTROL.

DRAWING DATE AUGUST 2014

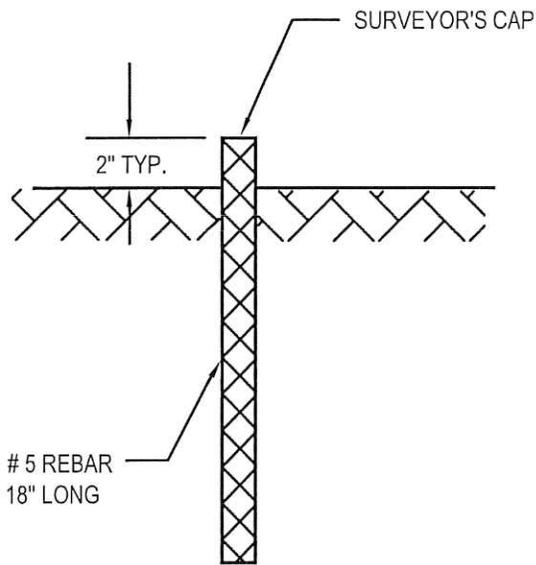
City of West Jordan, Utah



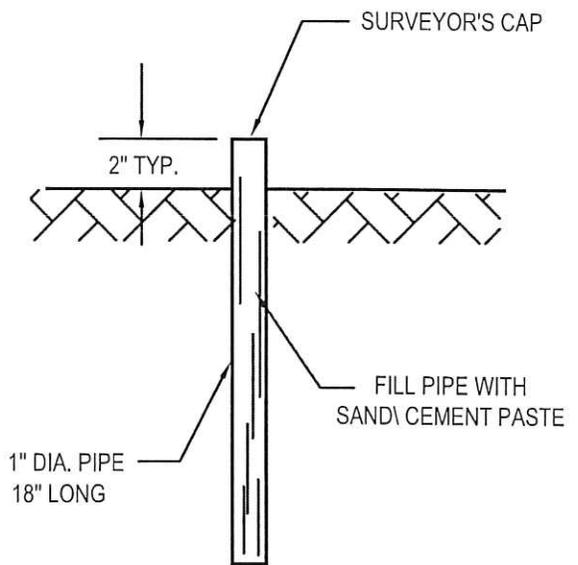
SURVEY STREET MONUMENT

STANDARD DRAWING

RD-260

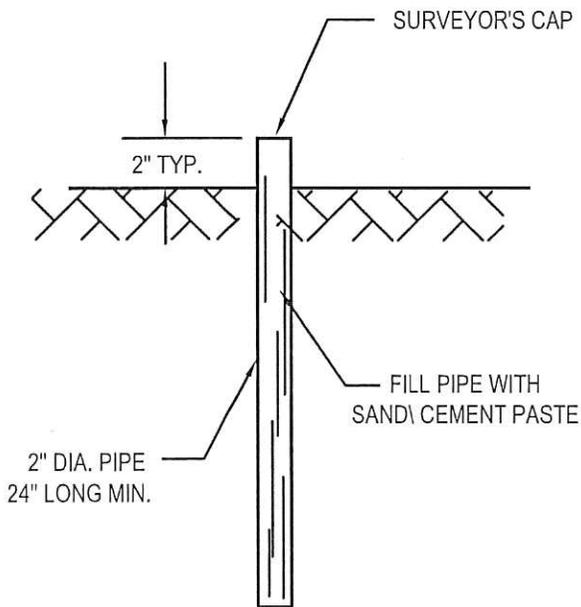


TYPE A

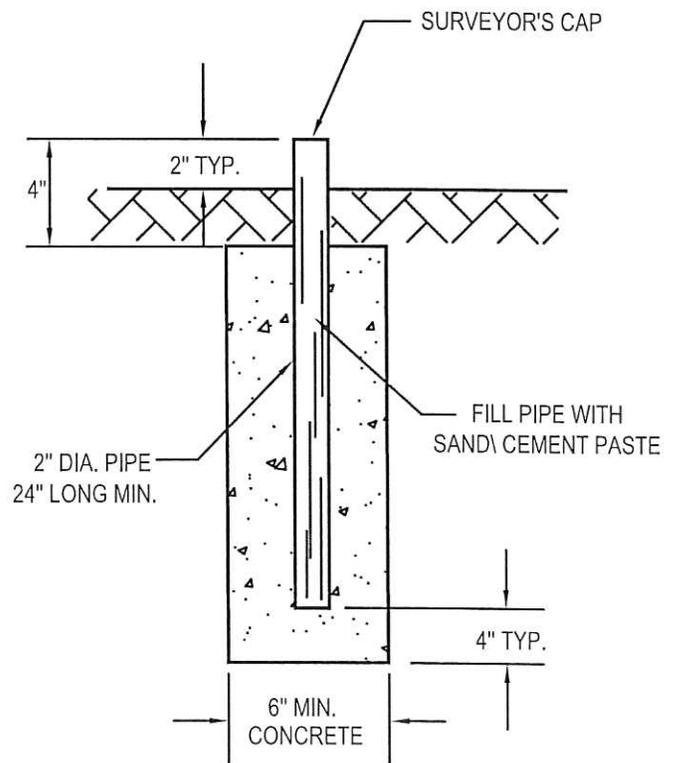


TYPE B

CORNER MARKERS



TYPE C



TYPE D

BOUNDARY MARKERS

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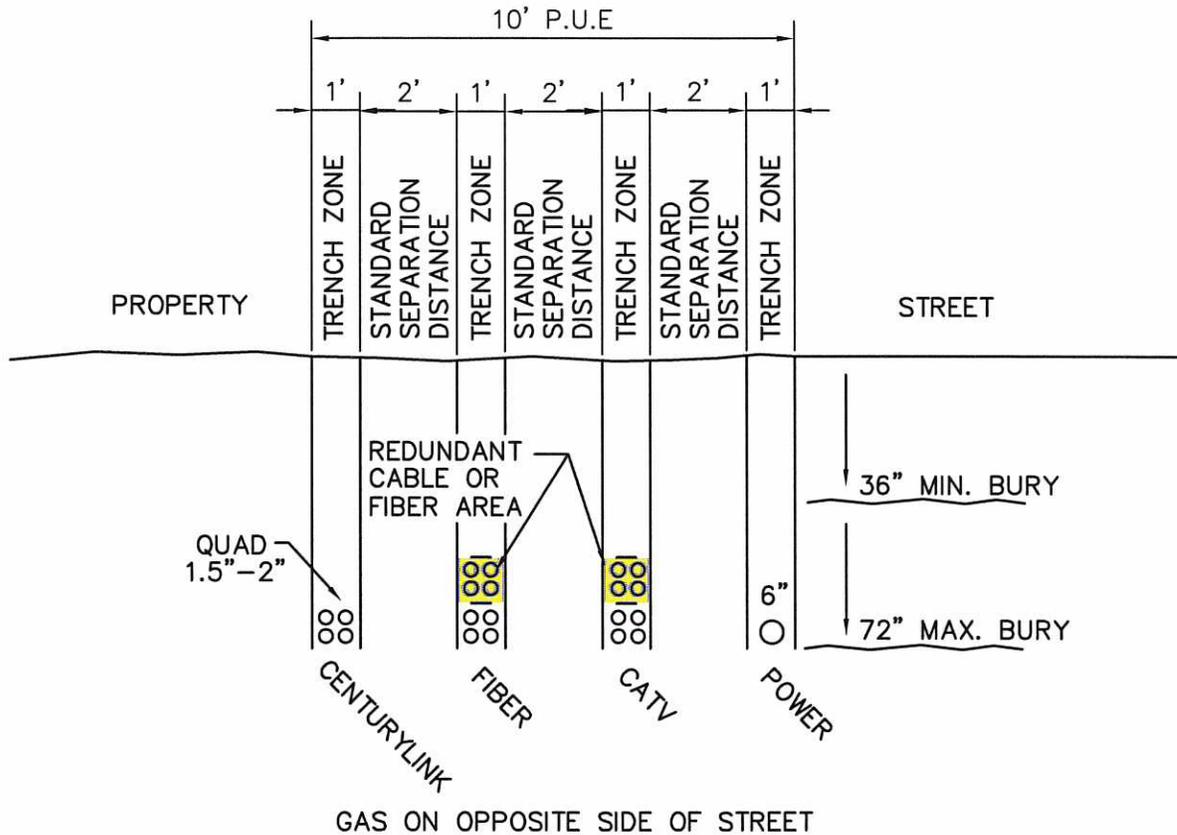
City of West Jordan, Utah



**SURVEY MONUMENTATION CORNER
AND BOUNDARY MARKERS**

STANDARD DRAWING

RD-265



NOTES:

1. FIRST PIPE IN MUST ACCOMMODATE FUTURE VERTICAL STACKING FOR ANY EXPANSIONS FROM THE SAME COMPANY (BURY AT 72" REQUIRED).
2. 36" MINIMUM BURY DEPTH REQUIRED.
3. 6" CONDUIT RUNS MAXIMUM (LARGER SIZES MUST ACQUIRE THEIR OWN EASEMENTS).
4. VERTICAL STACKING REQUIRED W/IN 1' COMPANY/CATEGORY ENVELOPE (MULTIPLE FIBER CARRIERS MUST GO IN SAME VERTICAL STACK OR APPROACH OTHER COMPANIES FOR SHARING OF THEIR VERTICAL ENVELOPE).
5. ANY EXCESS CAPACITY MAY BE LEASED TO OTHER COMPANIES.
6. 72' MAXIMUM BURY UNLESS APPROVED IN WRITING BY CITY ENGINEER.PS
7. FLOWABLE FILL IS NOT ALLOWED IN P.U.E.
8. LINES SHALL BE PLACED ON THE SAME SIDE OF STREET ACCORDING TO THIS DIAGRAM. "REDUNDANT" CONDUIT MAYBE RUN IN ANOTHER TRENCH WITH AGREEMENT FROM THE COMPANY RELATED TO THE NEXT OR SIMILAR 1 FOOT TRENCH ZONE.
9. MINIMUM SEPARATION FROM CITY UTILITIES, 4' HORIZONTAL EDGE TO EDGE AND 18" VERTICAL, 10' HORIZONTAL FOR SEWER.

DRAWING UPDATED AUGUST 2014

City of West Jordan, Utah



NEW INSTALLATION -SUBDIVISIONS
DUCT BANK STANDARD
 4x1' CONDUIT RUNS 10' P.U.E.

PLAN
RD-270