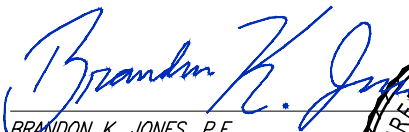



SOUTH WEBER CITY CORPORATION

PUBLIC WORKS STANDARD DRAWINGS

SUBMITTED & RECOMMENDED


BRANDON K. JONES, P.E.
SOUTH WEBER CITY ENGINEER



11/28/23
DATE

APPROVAL

DocuSigned by:

ROD WESTBROEK
SOUTH WEBER CITY MAYOR

11/28/23
DATE

DocuSigned by:

DAVID J. LARSON
SOUTH WEBER CITY MANAGER

11/28/23
DATE

DocuSigned by:

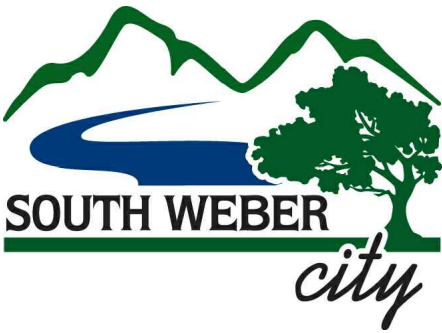
MARK B. LARSEN
SOUTH WEBER CITY PUBLIC WORKS DIRECTOR

11/28/23
DATE

DocuSigned by:

LISA SMITH
ATTEST, SOUTH WEBER CITY RECORDER

11/28/23
DATE



SPECIAL STANDARD NOTES:

- A. THE CITY ADOPTS THE FOLLOWING AS STANDARDS FOR ALL ISSUES RELATED TO THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF IMPROVEMENTS NOT SPECIFICALLY COVERED BY THIS MANUAL:
- APWA: MANUAL OF STANDARD SPECIFICATIONS (CURRENT EDITION) AND ALL ADOPTED AMENDMENTS
 - APWA: MANUAL OF STANDARD PLANS (CURRENT EDITION)
- B. AS TO ANY PARTICULAR ISSUE, IF A CONFLICT EXISTS BETWEEN ANY OF THE FOREGOING STANDARDS, THE CITY STANDARDS TAKE PRECEDENCE.
- C. AT THE CITY'S SOLE DISCRETION, ALTERNATE METHODS OF CONSTRUCTION OR DEVIATIONS FROM THESE STANDARDS MAY BE REQUIRED OR APPROVED BY THE CITY ENGINEER AND PUBLIC WORKS DIRECTOR (OR THEIR DESIGNEE), WHEN SUCH ARE NECESSARY TO MEET THE BEST INTERESTS OF THE CITY.

NOVEMBER 28, 2023

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- R4.....TYPICAL STREET INTERSECTION, UTILITY LATERAL CONFIGURATION & STREET MONUMENT DETAILS
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- R6.....TYPICAL ADA RAMP DETAILS
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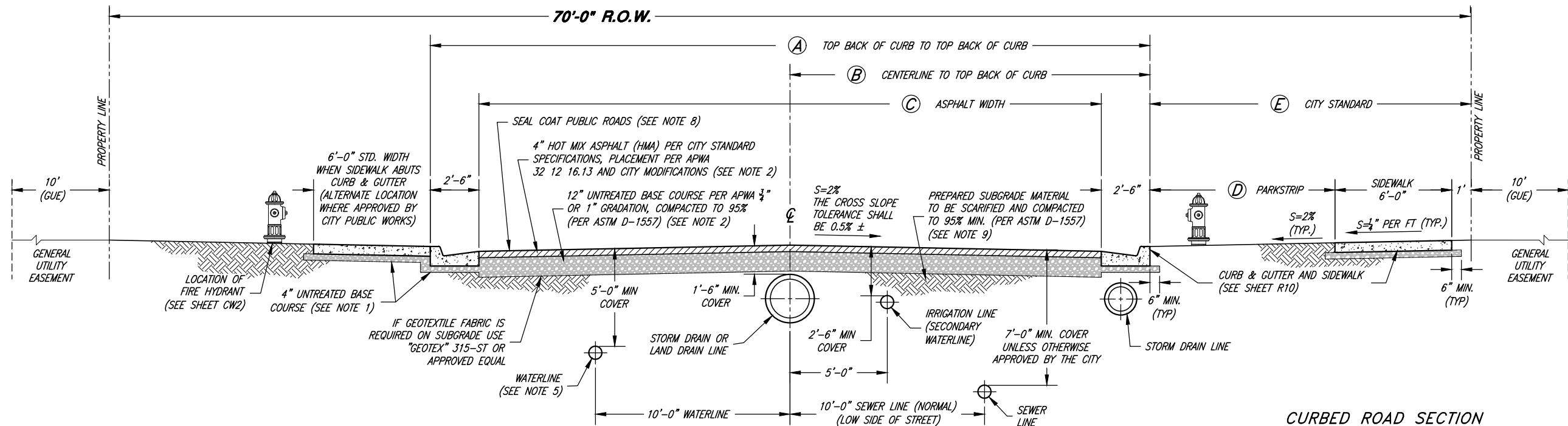
- SL1.....POLES AND FIXTURES
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STANDARD RESIDENTIAL STREET SECTION

GENERAL NOTES:

1. PROVIDE 4" THICKNESS OF 3/4" OR 1" UNTREATED BASE COURSE UNDER SIDEWALK, DRIVEWAY APPROACHES AND CURB & GUTTER, COMPACTED TO 95%, PER ASTM D-1557.
2. THE PAVEMENT THICKNESS SHALL BE CONSIDERED AS CITY MINIMUMS AND MAY BE REQUIRED TO BE ADJUSTED WHEN A GREATER DEPTH IS NECESSARY TO PROVIDE STABILITY PER THE GEOTECHNICAL REPORT OR CITY ENGINEER. DESIGNER AND/OR DEVELOPER MAY SUBMIT AN ALTERNATIVE PAVEMENT DESIGN BASED ON A DETAILED SOILS ANALYSIS FOR APPROVAL BY THE CITY ENGINEER WHICH MAY MODIFY PAVEMENT THICKNESS, BUT IN NO CASE SHALL THE BITUMINOUS SURFACE COURSE BE LESS THAN 4" AND UNTREATED BASE COURSE LESS THAN 12" THICK.
3. ALL ROAD CUTS SHALL BE PATCHED PER SHEET R11 AND SHEET R12
4. CURB & GUTTER AND SIDEWALKS SHALL BE CONSTRUCTED USING FIBER REINFORCED CONCRETE AND IN COMPLIANCE WITH SOUTH WEBER CITY TECHNICAL SPECIFICATIONS AND THESE DRAWINGS.
5. ALL CULINARY WATER MAINS AND SERVICES MUST MAINTAIN A MINIMUM SEPARATION FROM ALL SEWER MAINS AND LATERALS OF 10'-0" HORIZONTAL AND 18" VERTICAL IN ACCORDANCE WITH THE STATE OF UTAH DIVISION OF DRINKING WATER RULES SECTION R309-550-7
6. THE 6'-0" SIDEWALK SHOWN ABOVE IS TO BE CONSIDERED THE "CITY STANDARD." OTHER LOCATIONS AND TYPES OF SIDEWALK AS REQUESTED BY THE DEVELOPER MUST BE APPROVED BY THE CITY. IF SIDEWALK IS LOCATED AGAINST THE TBC, IT MUST BE A MINIMUM OF 6 FEET IN WIDTH.
7. NATURAL GAS TYPICALLY LOCATED IN THE PARKSTRIP, POWER AND COMMUNICATION LINES TYPICALLY LOCATED BEHIND PROPERTY LINES OR IN LOT EASEMENTS.
8. "SEAL COAT" CONSISTS OF THE FOLLOWING:
 - a. CHIP SEAL PER APWA 32 01 13.64 AND CITY MODIFICATIONS, AND
 - b. FOG SEAL PER APWA 32 01 13.50.
9. IMPORTED FILL UNDER ROADWAY SHALL BE GRANULAR BORROW 2" MAX.
10. PRIOR TO THE INSTALLATION OF PAVEMENT, THE CITY INSPECTOR MUST GIVE WRITTEN PERMISSION TO PROCEED.

GENERAL NOTES CONT.:

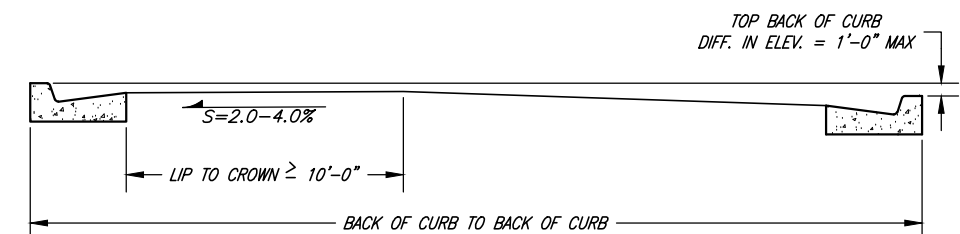
11. THE SPECIAL RESIDENTIAL STREET SECTION SHALL BE USED FOR RESIDENTIAL ROADWAYS THAT QUALIFY TO BE WIDER (AS PER UTAH CODE 10-9A-508(51)). THE CITY CAN REQUIRE THE INSTALLATION OF PAVEMENT IN EXCESS OF 32 FEET FOR RESIDENTIAL ROADS THAT MEET ANY OF THE FOLLOWING CONDITIONS:
 - TO ADDRESS SPECIFIC TRAFFIC FLOW CONSTRAINTS AT AN INTERSECTION, MID-BLOCK CROSSINGS, OR OTHER AREAS;
 - TO ADDRESS AN APPLICABLE GENERAL OR MASTER PLAN IMPROVEMENT, INCLUDING TRANSPORTATION, BICYCLE LANES, TRAILS, OR OTHER SIMILAR IMPROVEMENTS THAT ARE NOT INCLUDED WITHIN AN IMPACT FEE AREA;
 - TO ADDRESS TRAFFIC FLOW CONSTRAINTS FOR SERVICE TO OR ABUTTING HIGHER DENSITY DEVELOPMENTS OR USES THAT GENERATE HIGHER TRAFFIC VOLUMES, INCLUDING COMMUNITY CENTERS, SCHOOLS, AND OTHER SIMILAR USES;
 - AS NEEDED FOR THE INSTALLATION OR LOCATION OF A UTILITY WHICH IS MAINTAINED BY THE MUNICIPALITY AND IS CONSIDERED A TRANSMISSION LINE OR REQUIRES ADDITIONAL ROADWAY WIDTH;
 - FOR THIRD-PARTY UTILITY LINES THAT HAVE AN EASEMENT PREVENTING THE INSTALLATION OF UTILITIES MAINTAINED BY THE MUNICIPALITY WITHIN THE ROADWAY;
 - FOR UTILITIES OVER 12 FEET IN DEPTH;
 - FOR ROADWAYS WITH A DESIGN SPEED THAT EXCEEDS 25 MILES PER HOUR;
 - AS NEEDED FOR FLOOD AND STORMWATER ROUTING;
 - AS NEEDED TO MEET FIRE CODE REQUIREMENTS FOR PARKING AND HYDRANTS;
 - OR AS NEEDED TO ACCOMMODATE STREET PARKING.

CURBED ROAD SECTION

STREET DESIGNATION	T.B.C. TO T.B.C. A	CENTERLINE TO T.B.C. B	ASPHALT WIDTH C	PARKSTRIP D	T.B.C. TO PROPERTY LINE E
LOCAL RESIDENTIAL	37'-0"	18'-6"	32'-0"	9'-6"	16'-6"
SPECIAL RESIDENTIAL (SEE GENERAL NOTE 11)	41'-0"	20'-6"	36'-0"	7'-6"	14'-6"

NOTES:

- B1. THE ROAD SECTION REQUIRED SHALL BE AS DETERMINED BY THE CITY ENGINEER BASED UPON ZONING, GENERAL PLAN, MASTER PLAN, SIZE OF DEVELOPMENT, ESTIMATED TRAFFIC VOLUME, & AMOUNT OF OPEN SPACE ASSOCIATED WITH DEVELOPMENTS, AS WELL AS THE PROXIMITY TO HIGH VOLUME ROADS OR COMMERCIAL ZONING.



CROWN LOCATION FOR VARIOUS CROSS SLOPES

CROWN NOTES:

- A. MAXIMUM DIFFERENCE IN ELEVATION BETWEEN CURBS ON OPPOSITE SIDES OF THE STREET SHALL NOT EXCEED 1'-0" AS SHOWN IN DETAIL.
- B. ON CERTAIN STREETS APPROVED BY THE CITY COUNCIL, THE CITY ENGINEER WILL PROVIDE A PAVEMENT DESIGN. LOCATION OF SIDEWALK AND CURB & GUTTER MAY VARY PER DIRECTION OF THE CITY ENGINEER.
- C. ALL STREET CROSS SECTIONS SHALL BE AS APPROVED BY THE CITY ENGINEER.



BRANDON K. JONES
PROJECT ENGINEER
11/28/2023
DATE

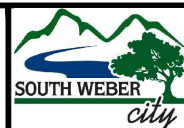
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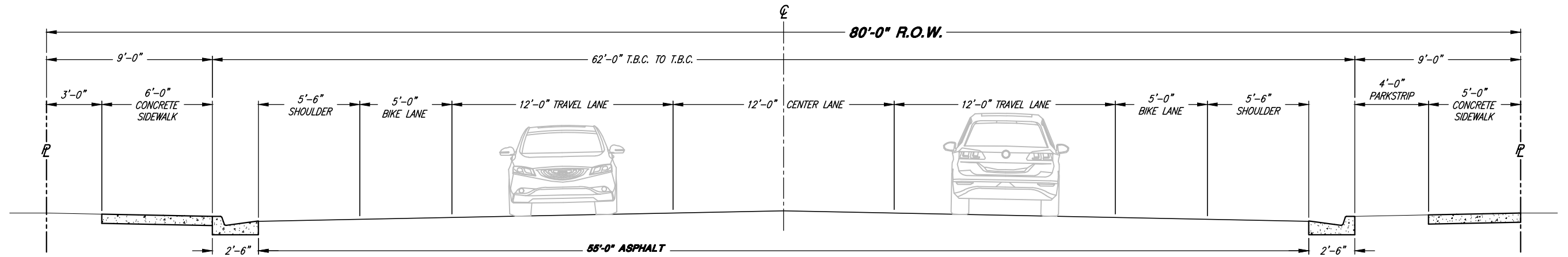


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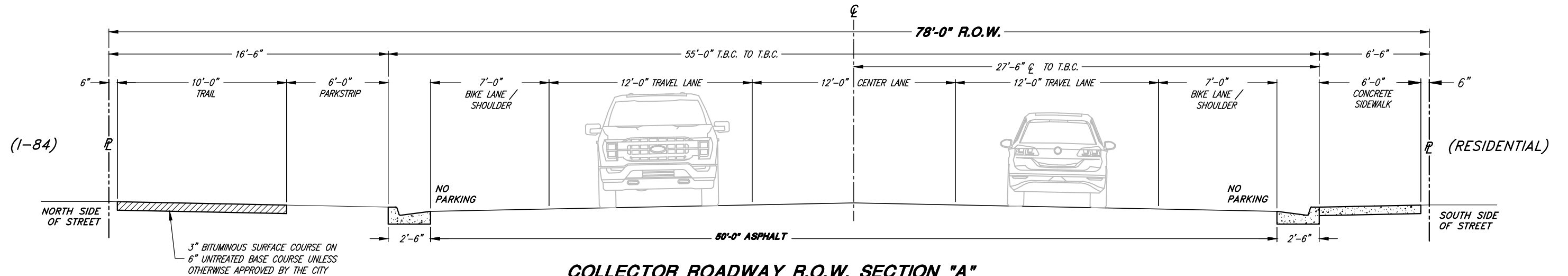
SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - ROAD IMPROVEMENT STANDARDS
TYPICAL RESIDENTIAL STREET SECTION DETAILS

SHEET:
R1
OF 34 SHEETS
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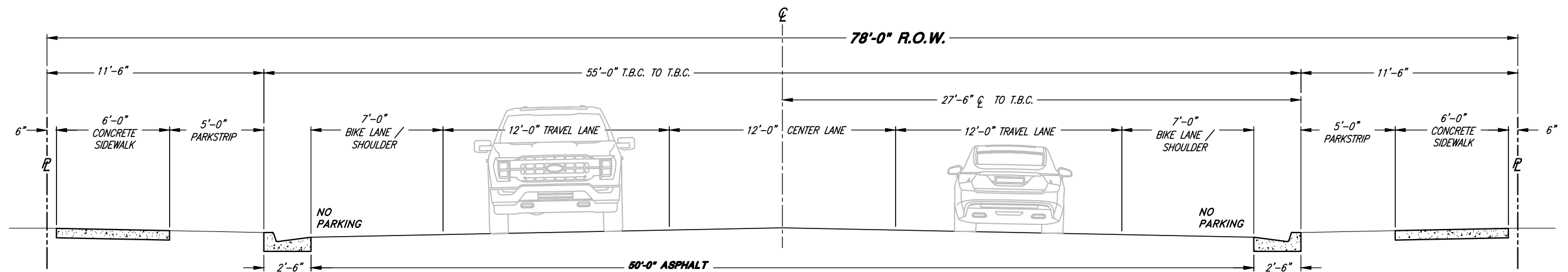
SOUTH WEBER DRIVE R.O.W. SECTION

THE 80'-0" ROADWAY SECTION SHOWN ABOVE IS TO BE CONSIDERED THE "CITY STANDARD" FOR SOUTH WEBER DRIVE. WHERE DESIGNATED BY THE CITY ON A CASE BY CASE BASIS IN AREAS OF PRE-EXISTING ROADWAY IMPROVEMENTS, ALTERNATE STREET CROSS SECTION DESIGNS MAY BE USED WITH PRIOR APPROVAL OF THE CITY ENGINEER AND THE CITY PUBLIC WORKS DEPARTMENT. SUBMIT ENGINEERED CONSTRUCTION PLANS TO THE CITY ENGINEER FOR REVIEW AND WRITTEN ACCEPTANCE PRIOR TO CONSTRUCTION.



COLLECTOR ROADWAY R.O.W. SECTION "A"

(ADJACENT TO 1-84)



COLLECTOR ROADWAY R.O.W. SECTION "B"

(1-84 TO SOUTH WEBER DRIVE)



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11/28/2023
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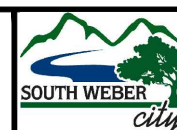
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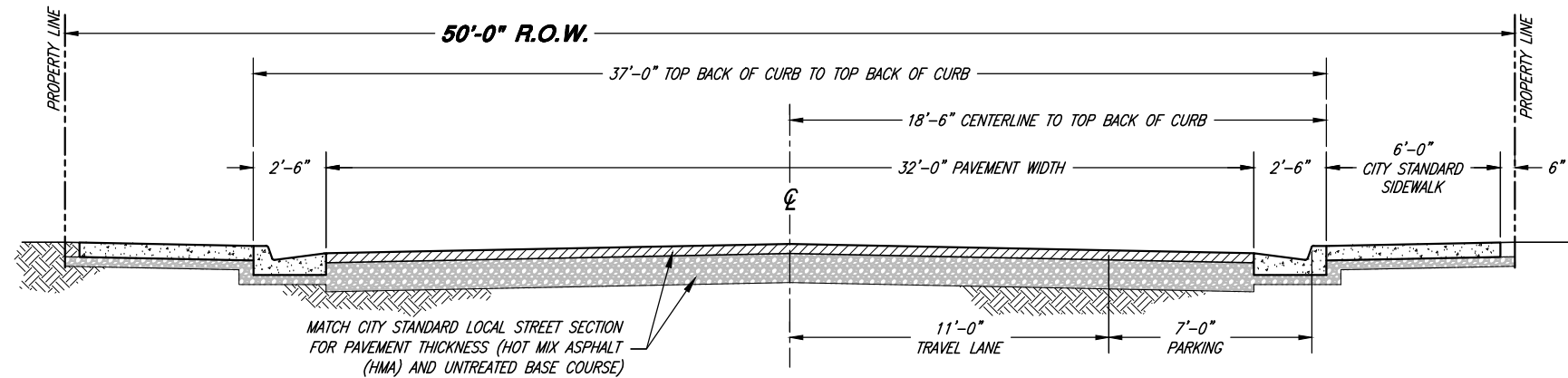


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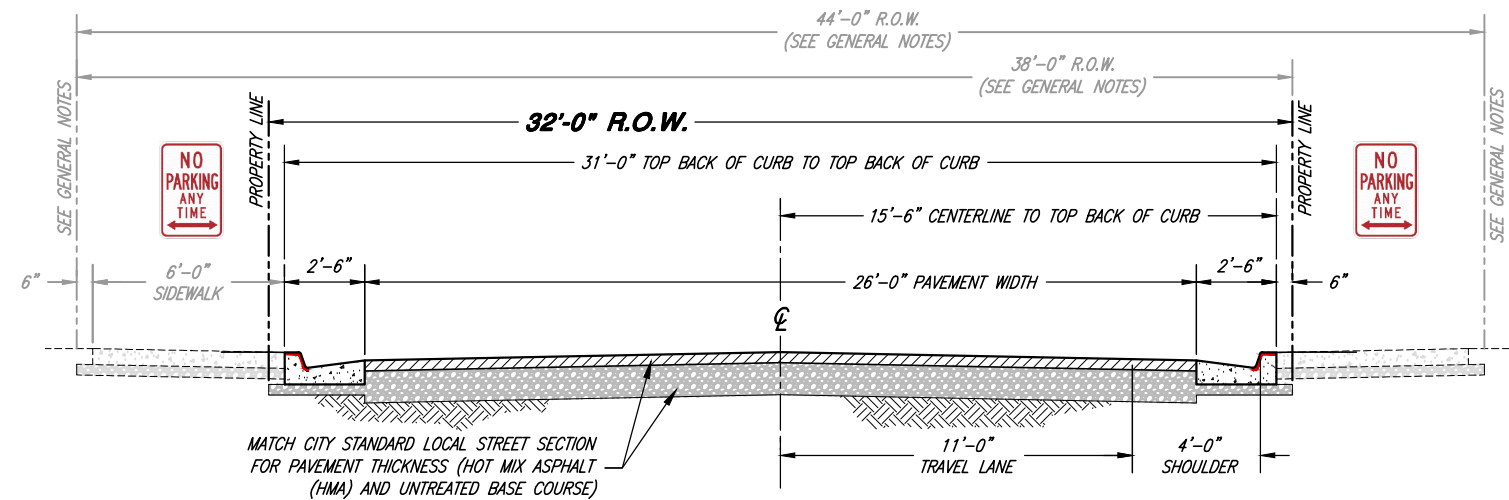


SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - ROAD IMPROVEMENT STANDARDS
SOUTH WEBER DRIVE & COLLECTOR ROADWAY
TYPICAL CROSS SECTION DETAILS

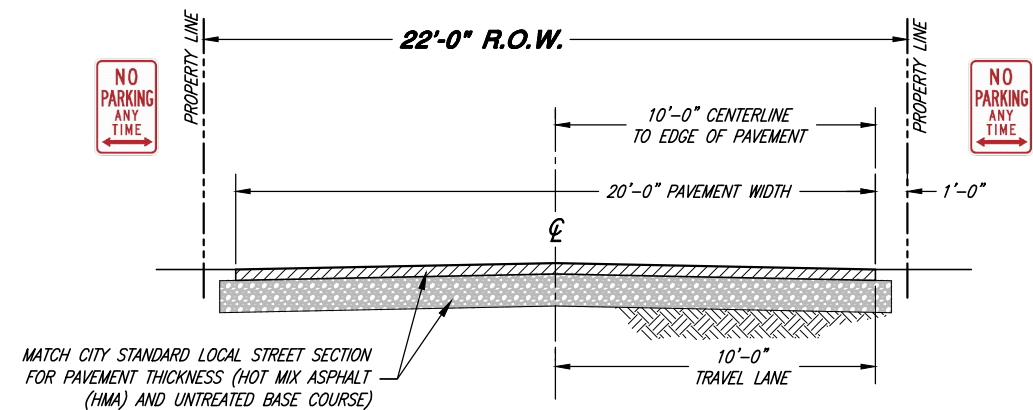
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OF 34 SHEETS
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**50' RIGHT-OF-WAY
PRIVATE ROADWAY STREET SECTION A**



**32' RIGHT-OF-WAY
PRIVATE ROADWAY STREET SECTION B**



**22' RIGHT-OF-WAY
PRIVATE ROADWAY STREET SECTION C**

GENERAL NOTES:

1. SIDEWALK OR PEDESTRIAN PATH MUST BE MADE AVAILABLE ON THE FRONT FACADE OF RESIDENCE AND CONNECT TO A PUBLIC RIGHT-OF-WAY WITHOUT HAVING TO CROSS A ROAD.
2. IF THE NUMBER OF AND SPACING REQUIRED FOR UTILITIES CANNOT FIT WITHIN THE PAVEMENT WIDTH, THEN THE PAVEMENT WIDTH AND R.O.W. MUST BE WIDENED TO ACCOMMODATE THE UTILITIES.



PROJECT ENGINEER
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DATE

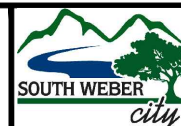
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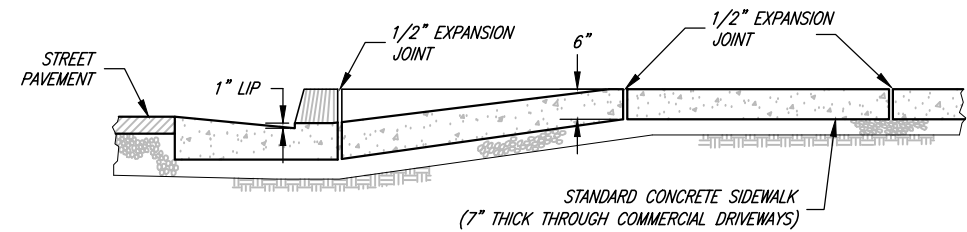


SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - ROAD IMPROVEMENT STANDARDS
PRIVATE ROADWAY STREET CROSS SECTION DETAILS

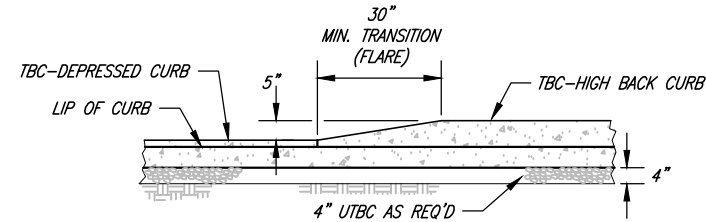
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DRIVEWAY APPROACH NOTES:

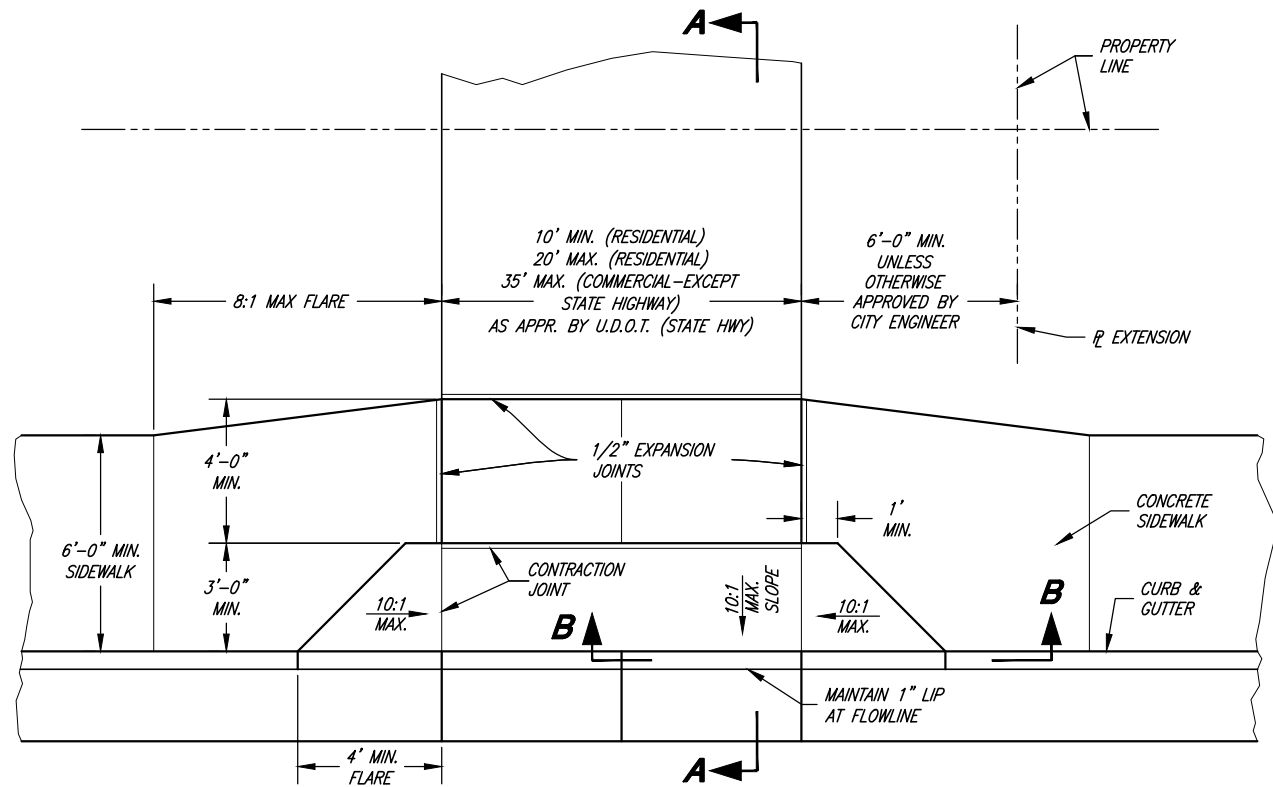
- 1. IN NEW SUBDIVISIONS WHERE FUTURE DRIVEWAY LOCATIONS ARE UNKNOWN, THE DRIVEWAY APPROACH SHALL BE MADE BY SAW CUTTING THE BACK OF THE EXISTING CURB TO THE REQUIRED DRIVEWAY WIDTH. ALL SAW CUTTING SHALL BE ACCOMPLISHED BY A CITY APPROVED LICENSED CONTRACTOR.
- 2. SCORE SIDEWALK 1/4 OF SIDEWALK THICKNESS AT EACH 6'-0" SECTION. EXPANSION JOINTS AT EACH 48'-0", PROVIDE ADDITIONAL CONTRACTION JOINTS ON OVERSIZED DRIVEWAYS AT 5'-0" MAX. SPACING
- 3. APPROACHES SHALL NOT BE ALLOWED ON CORNER LOTS WITHIN THE CLEAR VIEW AREA.
- 4. IF A RESIDENTIAL LOT HAS TWO FRONTAGES AND ONE OF THOSE FRONTAGES IS LOCATED ON A COLLECTOR OR ARTERIAL STREET, THE DRIVEWAY SHALL BE LOCATED ON THE RESIDENTIAL STREET ONLY. NO DRIVEWAY ACCESS WILL BE PERMITTED ONTO THE COLLECTOR OR ARTERIAL STREET.



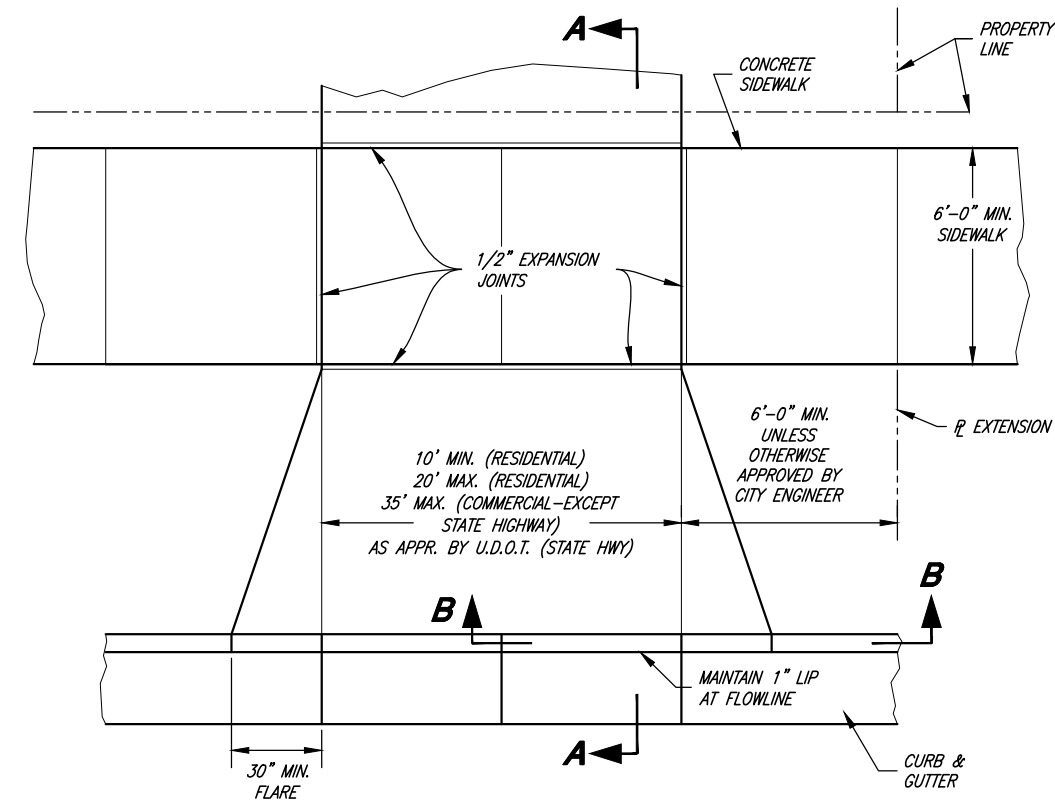
SECTION A-A



SECTION B-B



DRIVEWAY APPROACH W/ ADJACENT SIDEWALK



DRIVEWAY APPROACH W/ PARKSTRIP
DROP DOWN STYLE (CITY STANDARD)



PROJECT ENGINEER
Brandon K. Jones
11/28/2023
DATE

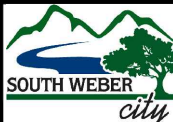
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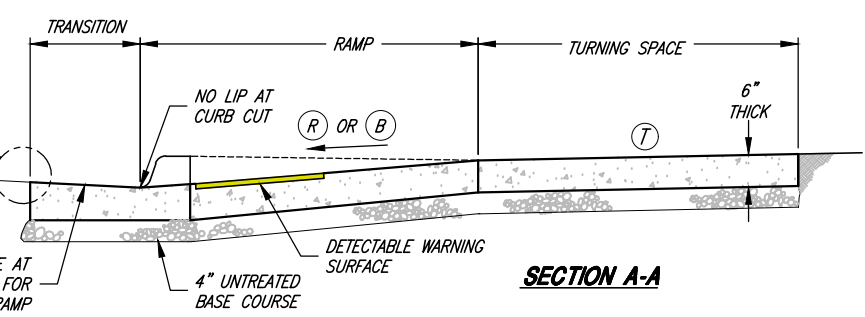


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SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - ROAD IMPROVEMENT STANDARDS
TYPICAL DRIVE APPROACH DETAILS

SHEET:
R5
OF 34 SHEETS
0



- A1. *INSTALLATION TOLERANCES ON CURB & GUTTER AND SIDEWALK PER APWA 32 16 1.3, 3.7.*
- A2. *AS-BUILT SURVEY MAY BE REQUIRED TO VERIFY COMPLIANCE WITH TOLERANCES.*
- A3. *GRINDING OF CONCRETE, TO MEET TOLERANCES, WILL NOT BE ALLOWED.*

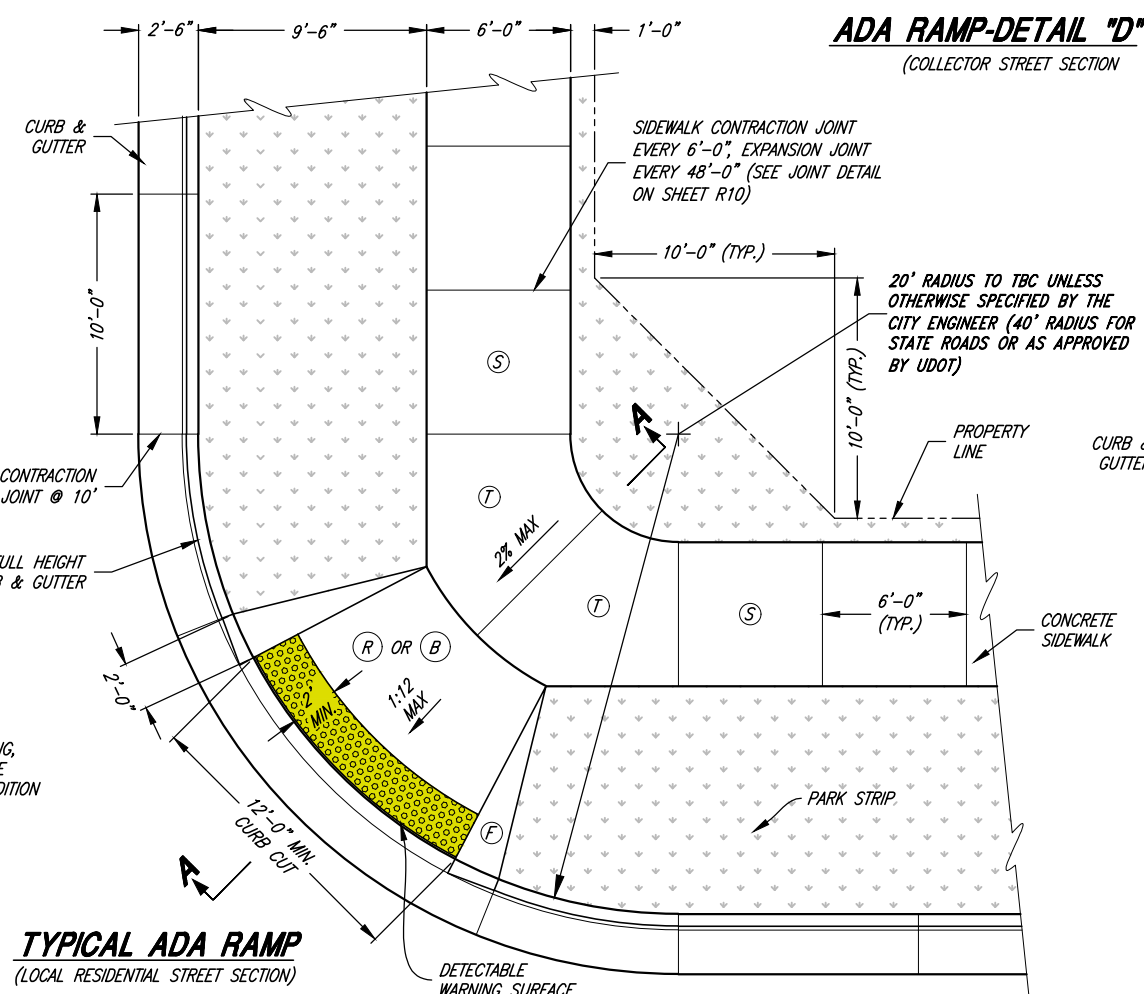
1. LOCATE THE DETECTABLE WARNING SURFACE SO THE OUTSIDE CORNER NEAREST THE STREET IS WITHIN 1 INCH OF THE BACK OF CURB (TBC). PROVIDE 2-FOOT MINIMUM DEPTH.
2. PROVIDE DETECTABLE WARNING SURFACE FOR FULL WIDTH OF CURB CUT.
3. THE DETECTABLE WARNING SURFACE DOMES SHALL BE ORIENTED SUCH THAT THE ROWS ARE PARALLEL WITH THE DIRECTION OF PEDESTRIAN TRAVEL TO THE RAMP ON THE OPPOSITE SIDE OF THE STREET.
4. THE STANDARD COLOR FOR THE DETECTABLE WARNING SURFACE SHALL BE YELLOW OR PRE-APPROVED CONTRASTING COLOR. WHEN THE EXISTING SIDEWALK COLOR IS NOT STANDARD CONCRETE, THE COLOR OF THE DETECTABLE WARNING SURFACE SHALL BE DETERMINED BY THE CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
5. WHEN A DETECTABLE WARNING SURFACE DOME IS CUT, THE REMAINING PORTION OF THE DOME SHALL BE BEVELED TO A MAXIMUM SLOPE OF 1:2.



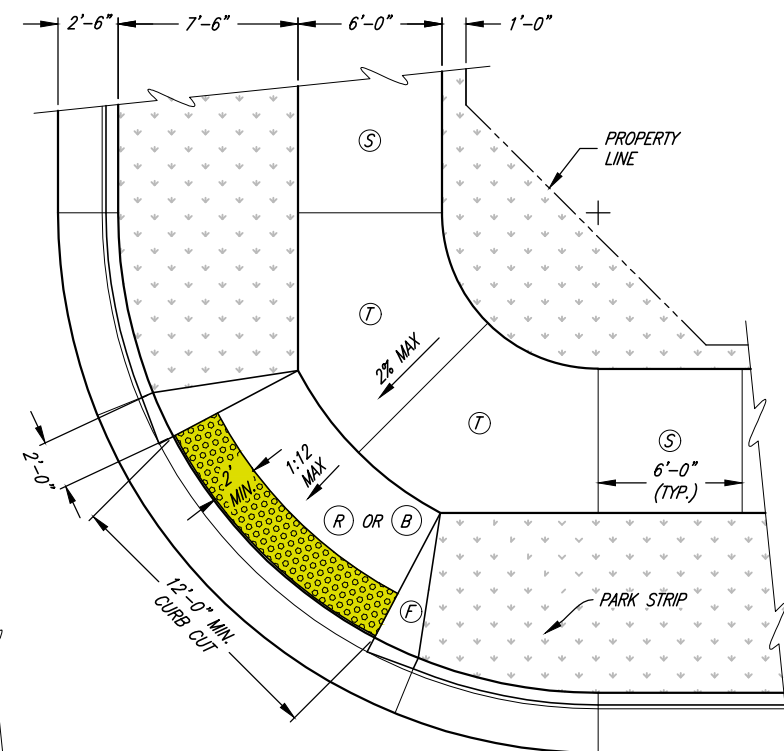
SLOPE REFERENCE TABLE			
	ITEM	MAX RUNNING SLOPE*	MAX. CROSS SLOPE*
(T)	TURNING SPACE ²	2% (1V:48H)	2% (1V:48H)
(R)	RAMP	8.3% (1V:12H)	2% (1V:48H)
(S)	SIDEWALK	5% (1:20) ¹	2% (1V:48H)
(F)	FLARE	25% (1V:4H)	--
(B)	BLENDED TRANSITION	5% (1V:20H) 2% MIN.	2% (1V:48H)

² NOT TO EXCEED 2% IN ANY DIRECTION

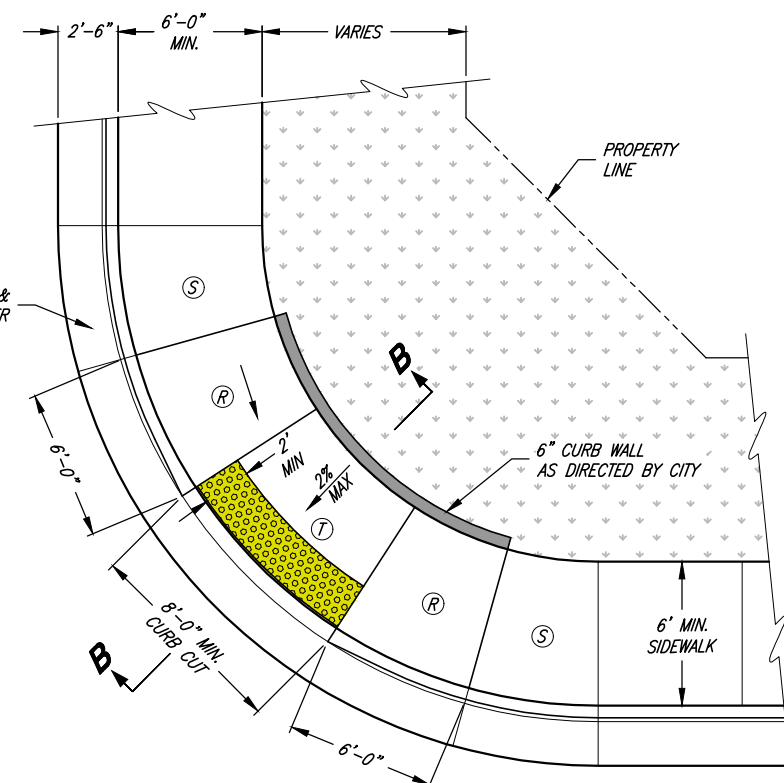
D. RAMP GRADE BREAK MUST BE PERPENDICULAR TO THE RUNNING SLOPE.



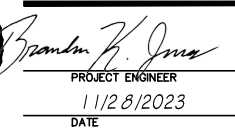
TYPICAL ADA RAMP
(LOCAL RESIDENTIAL STREET SECTION)



ADA RAMP-DETAIL "C"
(SPECIAL RESIDENTIAL STREET SECTION)



ADA RAMP-DETAIL "B"
(6' SIDEWALK BACK OF CURB)



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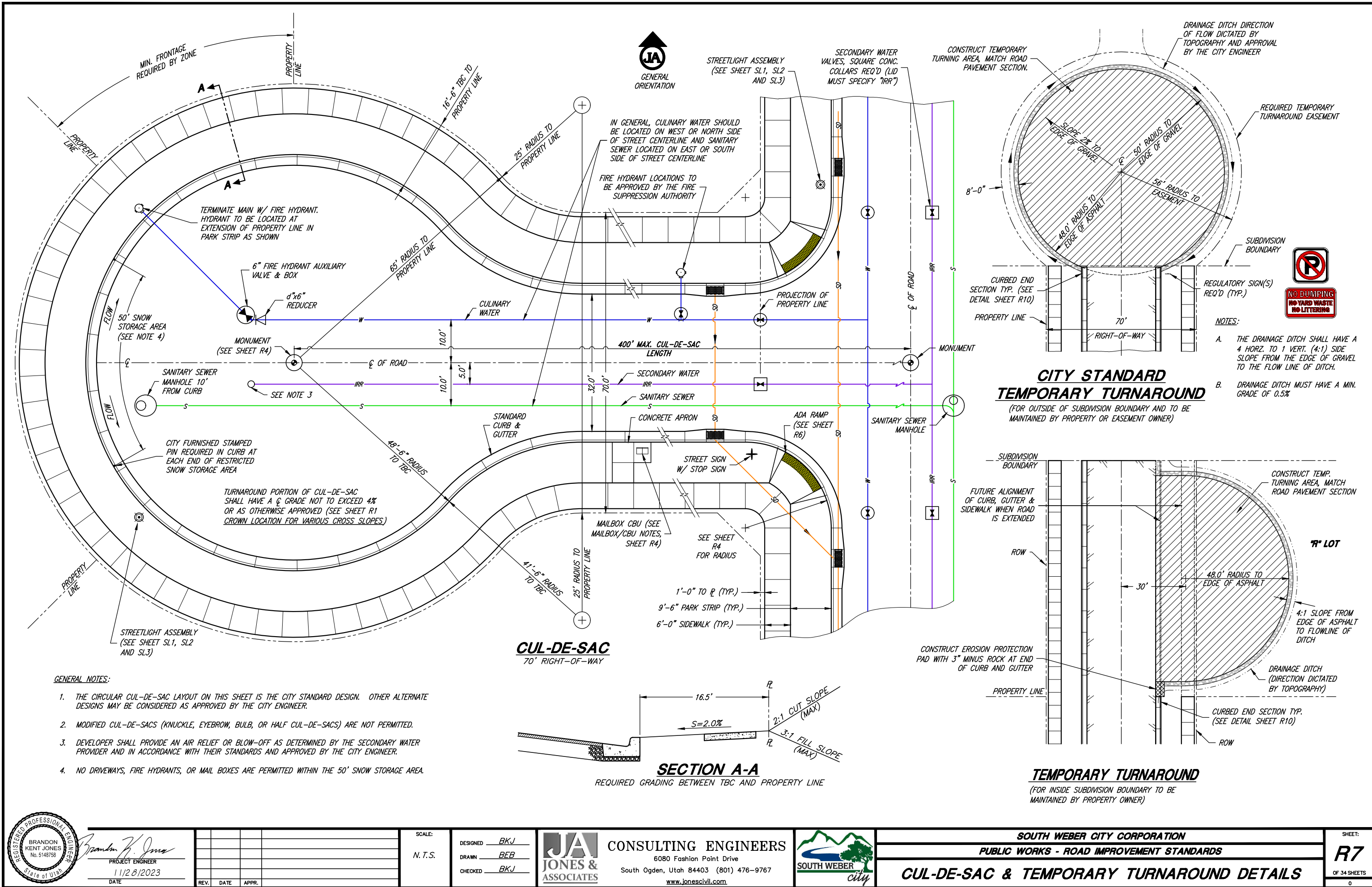


SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - ROAD IMPROVEMENT STANDARDS

TYPICAL ADA RAMP DETAILS

R6

OF 34 SHEET



GENERAL NOTES:

1. THE CIRCULAR CUL-DE-SAC LAYOUT ON THIS SHEET IS THE CITY STANDARD DESIGN. OTHER ALTERNATE DESIGNS MAY BE CONSIDERED AS APPROVED BY THE CITY ENGINEER.
2. MODIFIED CUL-DE-SACS (KNUCKLE, EYEBROW, BULB, OR HALF CUL-DE-SACS) ARE NOT PERMITTED.
3. DEVELOPER SHALL PROVIDE AN AIR RELIEF OR BLOW-OFF AS DETERMINED BY THE SECONDARY WATER PROVIDER AND IN ACCORDANCE WITH THEIR STANDARDS AND APPROVED BY THE CITY ENGINEER.
4. NO DRIVEWAYS, FIRE HYDRANTS, OR MAIL BOXES ARE PERMITTED WITHIN THE 50' SNOW STORAGE AREA.



BRANDON K. JONES
PROJECT ENGINEER
11/28/2023
DATE

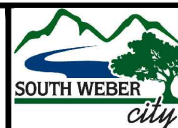
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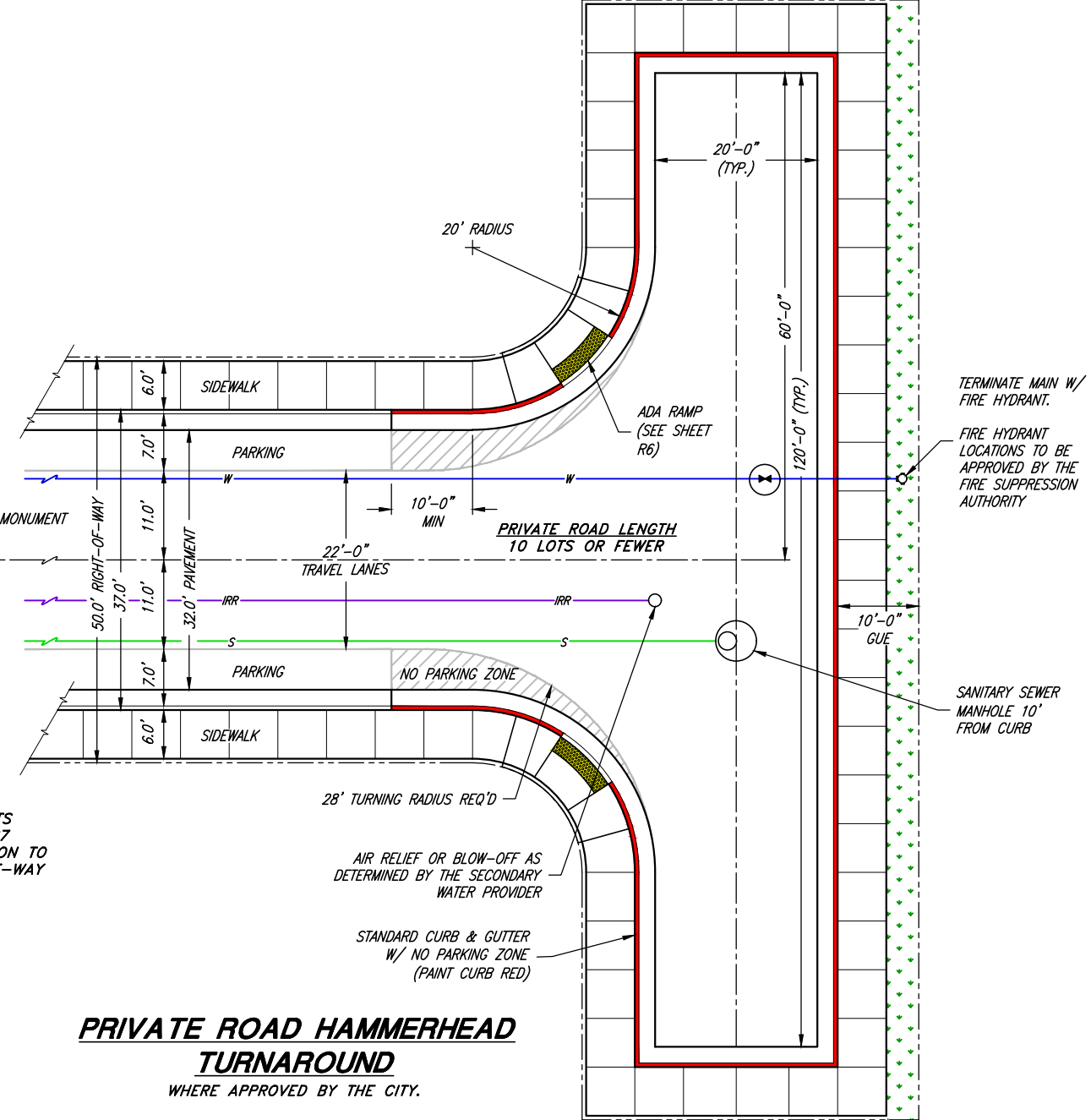
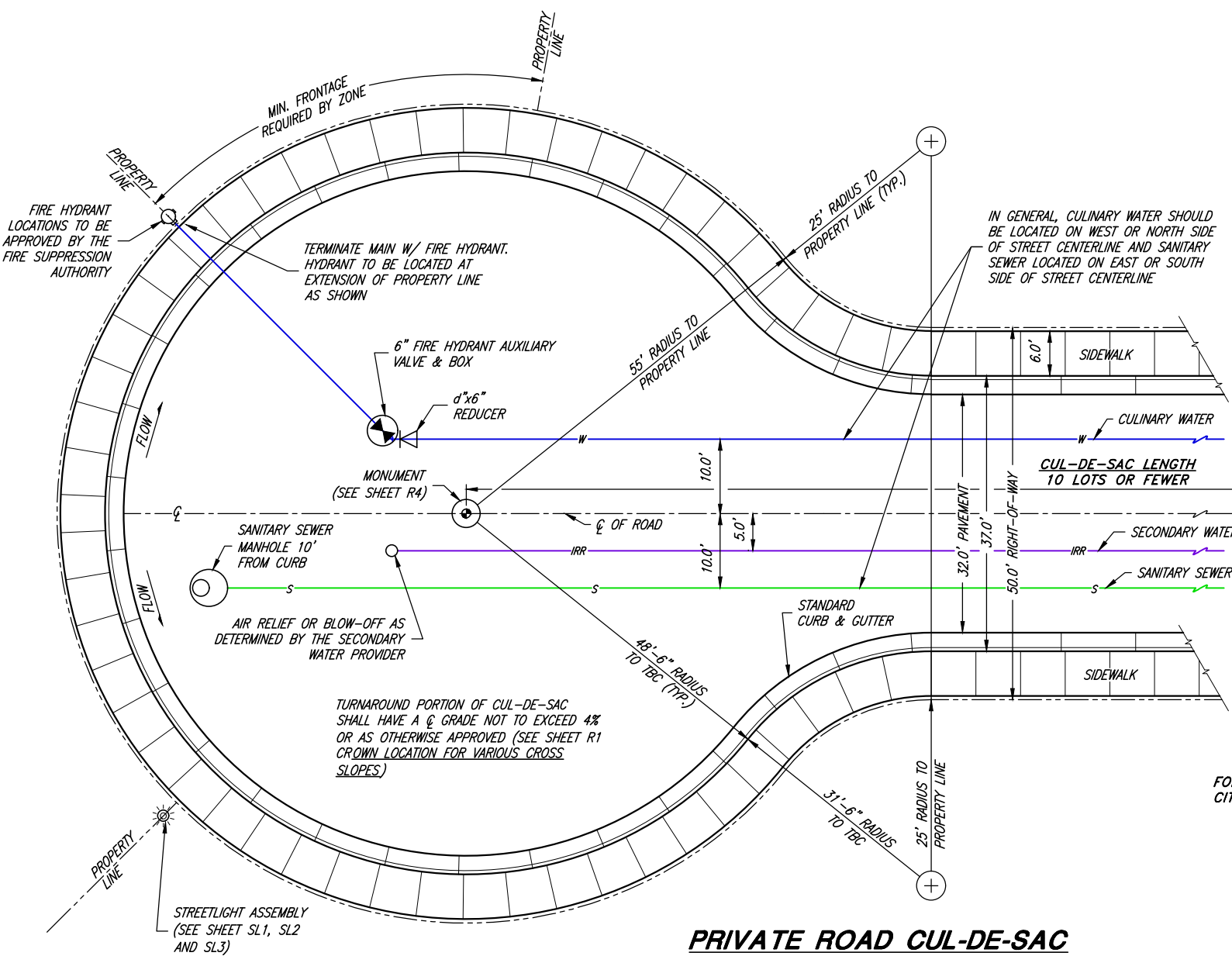


SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - ROAD IMPROVEMENT STANDARDS
CUL-DE-SAC & TEMPORARY TURNAROUND DETAILS

SHEET:
R7
OF 34 SHEETS
0

GENERAL NOTES:

1. THE CIRCULAR CUL-DE-SAC LAYOUT ON THIS SHEET IS THE CITY STANDARD DESIGN FOR PRIVATE ROADS. OTHER ALTERNATE DESIGNS MAY BE CONSIDERED AS APPROVED BY THE CITY.
2. ALL CULINARY WATER MAINS AND SERVICES MUST MAINTAIN A MINIMUM SEPARATION FROM ALL SEWER MAINS AND LATERALS OF 10'-0" HORIZONTAL AND 18" VERTICAL IN ACCORDANCE WITH THE STATE OF UTAH DIVISION OF DRINKING WATER RULES SECTION R309-550-7
3. NATURAL GAS, POWER AND COMMUNICATION LINES SHALL BE LOCATED BEHIND PROPERTY LINES OR IN LOT EASEMENTS.
4. THE PRIVATE ROAD CROSS SECTION IS NOT PERMITTED ON THROUGH ROADS.
5. ALL PRIVATE ROADS SHALL TERMINATE WITH A TURNAROUND.



PROJECT ENGINEER
11/28/2023
DATE

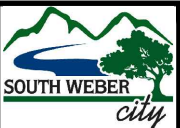
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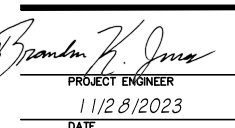
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SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - ROAD IMPROVEMENT STANDARDS
PRIVATE ROAD CUL-DE-SAC AND HAMMERHEAD TURNAROUND DETAILS

SHEET:
R8
OF 34 SHEETS
0

- A. STREET SIGN BACKGROUND SHALL BE REGULATORY GREEN, BOTH STREET AND TRAFFIC SIGNS SHALL BE AT THE VERY LEAST HIGH INTENSITY REFLECTIVE SHEETING (9FP-85 TYPE IIIA)
- B. LEGEND SHALL BE WHITE LETTERS (FONT: HIGHWAY C), HIGH INTENSITY REFLECTIVE SHEETING (9FP-85 IIIA)
- C. SIGN BLANK SHALL BE 6081-T6 HEAT TREATED HIGH TENSILE DECREASED ALUMINUM W/ ALODINE 1200 FINISH-THICKNESS SHALL BE 0.08"
- D. EACH SIGN SHALL CONSIST OF TWO PLATES RIVETED TOGETHER & MOUNTED AS SHOWN
- E. SIGNS ON PRIVATE ROADS SHALL MEET ALL SPECIFICATIONS FOR STANDARD SIGNS. (PRIVATE SIGNS WILL NOT BE MAINTAINED BY THE CITY.)
- F. ALL STREETS WITH NAMES MUST ALSO SHOW COORDINATE DESIGNATION
- G. ALL SIGNS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES"



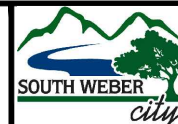
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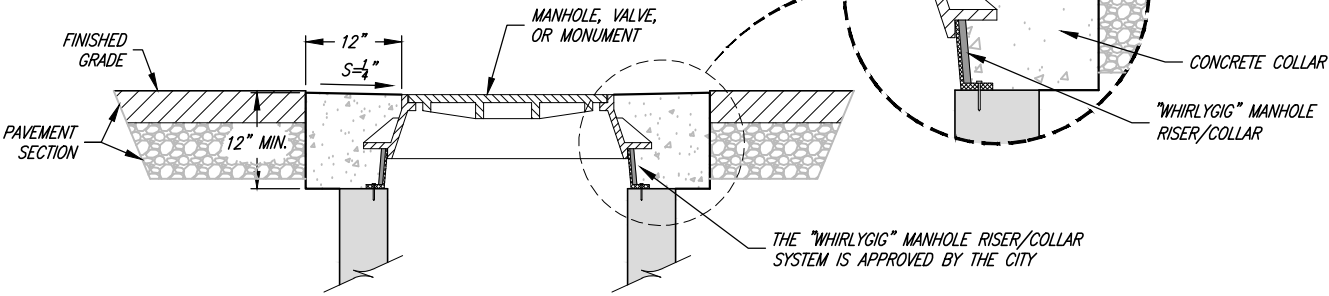
SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - ROAD IMPROVEMENT STANDARDS

STREET SIGN DETAILS

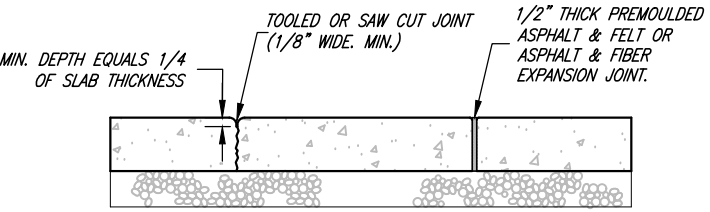
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9
SHEETS
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CONCRETE COLLAR NOTES:

- B1. ALL CONCRETE COLLARS TO BE INSTALLED WITHIN 14 DAYS AFTER PAVING.
B2. COLLARS AROUND MANHOLES AND CULINARY WATER VALVES ARE TO BE ROUND.
B3. COLLARS AROUND IRRIGATION VALVES AND MANHOLES ARE TO BE SQUARE.
B4. FIBER MESH SHALL BE ADDED TO ALL CONCRETE (1 lb PER CUBIC YARD).

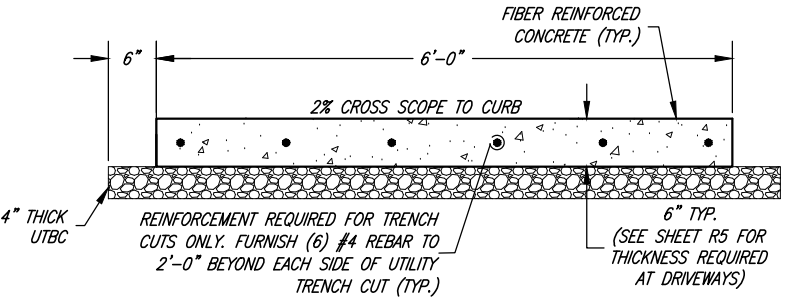


CONCRETE COLLAR DETAIL

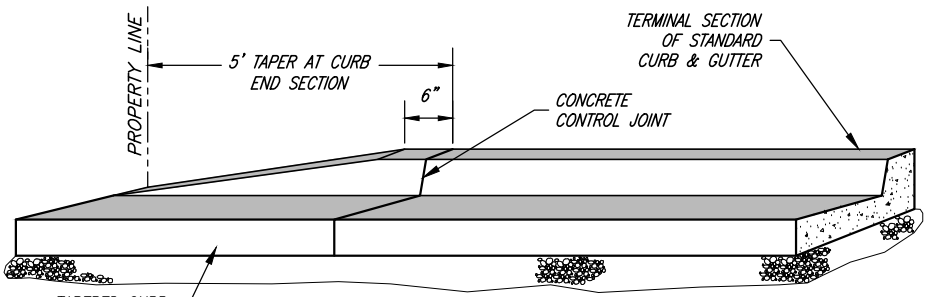


CONTRACTION JOINT (CRACK CONTROL JOINT) EXPANSION JOINT

JOINT DETAIL

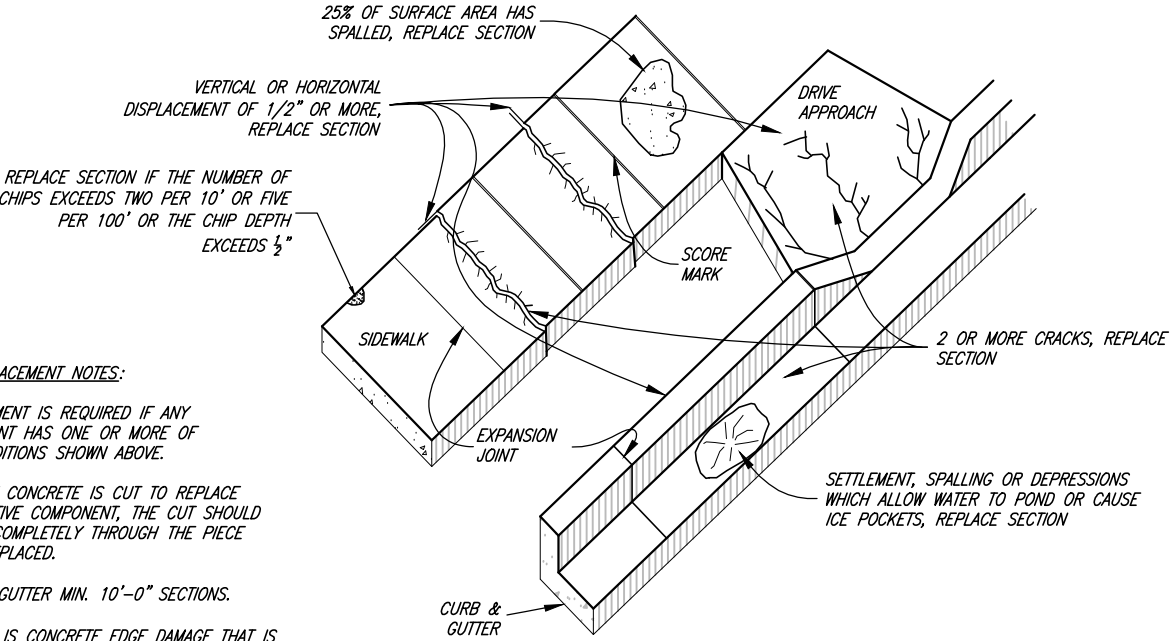


SIDEWALK SECTION (CITY STANDARD)



CURB END SECTION

CURB END SECTION NOTE:
CONSTRUCT CURB END SECTION FOR IMPROVED SAFETY AND TO PREVENT SNOW PLOW DAMAGE. CONTRACTOR REQUIRED TO SAW-CUT AND REMOVE TAPERED CURB END SECTION AND CONSTRUCT NEW CURB AND GUTTER WHEN CURB AND GUTTER IS EXTENDED.

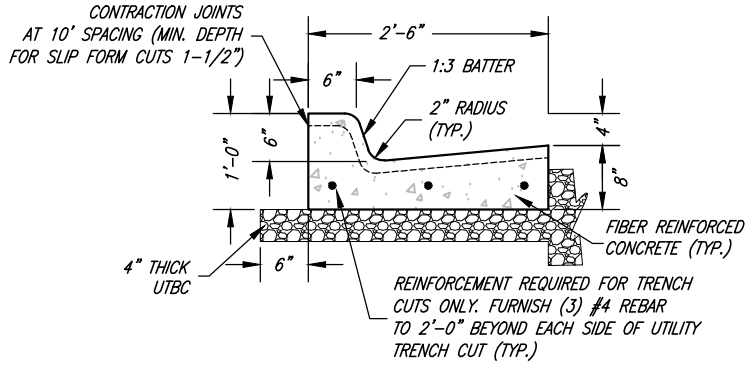


DEFECTIVE CONCRETE REPLACEMENT CRITERIA

GENERAL NOTES:

- A1. INSTALLATION TOLERANCES ON CURB & GUTTER AND SIDEWALK PER APWA 32 16 13, 3.7.
A2. AS-BUILT SURVEY MAY BE REQUIRED TO VERIFY COMPLIANCE WITH TOLERANCES.
A3. GRINDING OF CONCRETE, TO MEET TOLERANCES, WILL NOT BE ALLOWED.
A4. CONCRETE CLASS: WHEN NOT SPECIFIED IN THE PLANS OR PROJECT SPECIFICATION, USE THE FOLLOWING TABLE TO SELECT THE CLASS OF CONCRETE REQUIRED FOR THE APPLICATION.


CONCRETE CLASS	APPLICATION
5,000	REINFORCED STRUCTURAL CONCRETE
4,000	SIDEWALKS, CURB, GUTTER, CROSS GUTTERS, WATERWAYS, PAVEMENTS, AND UNREINFORCED FOOTINGS AND FOUNDATIONS
3,000	THRUST BLOCKS
2,000	ANCHORS, MASS CONCRETE



CURB & GUTTER SECTION (CITY STANDARD)

- CURB & GUTTER NOTES:
- WHEN REPLACING CURB DUE TO CONSTRUCTION ACTIVITY, NEW CURB MUST EXTEND 5' MIN. PAST TRENCH ON EACH SIDE.
 - CONCRETE CURB TO BE CONSTRUCTED USING SLIPFORMS, HAND FORMED OR STATIONARY FORMS ARE ONLY ALLOWED FOR CURB TIE-INS.
 - THE SLOPE FOR CURB & GUTTER MUST BE A MINIMUM OF 0.5%.

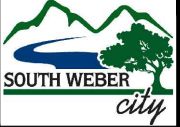


 PROJECT ENGINEER 11/28/2023 DATE				
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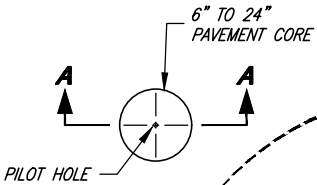


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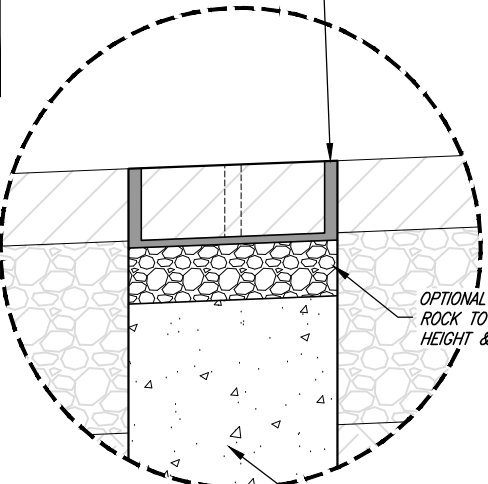


SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - ROAD IMPROVEMENT STANDARDS
TYPICAL SIDEWALK, CURB & GUTTER, CONCRETE COLLAR, AND DEFECTIVE CONC. REPLACEMENT DETAILS

BOND MATERIAL PROPERTIES		
PROPERTY	ASTM TEST METHOD	REQUIREMENTS
BOND STRENGTH, PSI (@ 70° F., 30 MIN. CURE)	C882	200 MIN.
COMPRESSIVE STRENGTH, PSI (@ 70° F., 60 MIN. CURE)	C109	1500 MIN.



"UTILIBOND" PAVEMENT BONDING
COMPOUND OR APPROVED EQUAL



OPTIONAL 1"-2" CRUSHED
ROCK TO ACHIEVE PROPER
HEIGHT & LEVEL

FLOWABLE FILL

FLOWABLE FILL

UTILITY BEING POTHOLED
OR REPAIRED

SECTION A-A

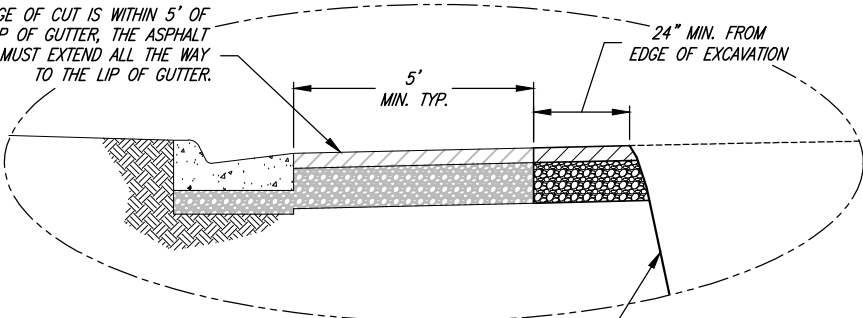
UTILITY POTHOLES DETAIL

KEYHOLE METHOD

UTILITY POTHOLES NOTES:

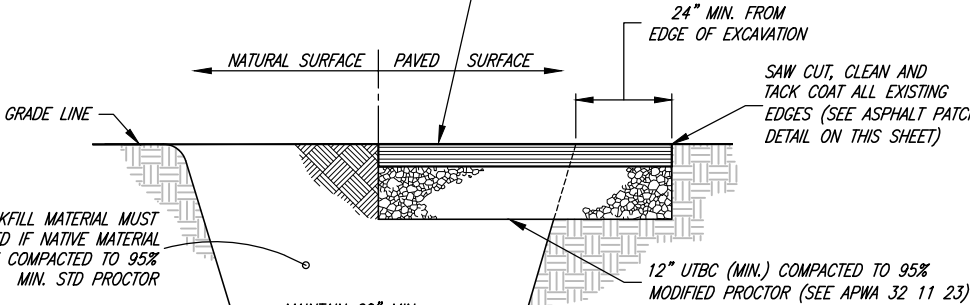
- CONTRACTOR SHALL PLACE A TEMPORARY PAINT MARK ON THE PAVEMENT TO ASSURE CORE IS REPLACED IN THE SAME ORIENTATION.
- CORING SHALL BE COMPLETED PERPENDICULAR TO THE HORIZON (NOT THE PAVEMENT), AND SHALL EXTEND THE FULL ASPHALT DEPTH. CORING SHALL BE COMPLETED USING A KEYHOLE CORING SAW CAPABLE OF REMOVING AN INTACT CORE OF PAVEMENT.
- CORES SHALL NOT BE LESS THAN 6 INCHES IN DIAMETER AND NO MORE THAN 24 INCHES IN DIAMETER.
- SOIL SHALL BE REMOVED USING AIR/VACUUM EXTRACTION METHODS AND DISPOSED PROPERLY OFF SITE.
- FLOWABLE FILL SHALL BE USED TO BACKFILL THE HOLE TO WITHIN ONE TO TWO INCHES OF THE BOTTOM OF THE EXISTING PAVEMENT.
- COMPACTED GRAVEL IF NECESSARY SHALL BE USED TO BRING THE POTHOLE TO THE BOTTOM OF PAVEMENT GRADE. THE TEMPORARY PAINT MARK SHALL BE USED TO ALIGN THE CORE TO ITS ORIGINAL POSITION AND THE GRAVEL SHALL BE USED TO LEVEL THE CORE SO THE FINISH GRADE IS FLUSH WITH THE SURROUNDING ASPHALT.
- PAVEMENT BONDING COMPOUND SHALL BE USED TO RESTORE THE CORE TO ITS ORIGINAL CONDITION COMPLETELY FLUSH WITH THE SURROUNDING ASPHALT. THE COMPOUND SHALL BE POURED IN THE POTHOLE AND THE CORE PLACE IN AFTER CAUSING THE PAVEMENT BONDING COMPOUND TO FLOW TO THE SURFACE. ALL EXCESS BONDING AGENT SHALL BE REMOVED.
- CORES SHALL BE ALLOWED TO CURE PER MANUFACTURER'S RECOMMENDATIONS PRIOR TO OPENING TO TRAFFIC.

IF EDGE OF CUT IS WITHIN 5' OF
LIP OF GUTTER, THE ASPHALT
PATCH MUST EXTEND ALL THE WAY
TO THE LIP OF GUTTER.



TRENCH SIDE SLOPE
(SEE TYPICAL TRENCH SECTION
DETAIL ON THIS SHEET)

HOT MIX ASPHALT (HMA) PER CITY STANDARD
SPECIFICATIONS. MATCH EXISTING PAVEMENT
THICKNESS OR 4" MIN., WHICHEVER
IS GREATER.



IMPORTED BACKFILL MATERIAL MUST
BE USED IF NATIVE MATERIAL
CANNOT BE COMPACTED TO 95%
MIN. STD PROCTOR

SIDE SLOPES TO
CONFORM WITH LOCAL, STATE AND
FEDERAL O.S.H.A. REQUIREMENTS

PLACE COLOR SPECIFIC LOCATOR TAPE 24"
ABOVE TOP OF ALL PIPE

INSTALL PIPE ON STABLE FOUNDATION WITH
UNIFORM BEARING UNDER FULL LENGTH OF
PIPE BARREL - PROVIDE BELL HOLES.

BED PIPE IN SAND OR GRAVEL (BED
WATER PIPE ONLY IN SAND).

MAINTAIN 60" MIN.
COVER OVER
WATERLINE

SAND, GRAVEL OR EARTH CONTAINING
NO LUMPS, ORGANIC MTL. OR ROCKS
LARGER THAN 1" IN ANY DIRECTION.
HAND OR MECHANICAL COMPACTION.
(IMPORT SAND REQ'D FOR WATER PIPE)

COLOR SPECIFIC 12 GAUGE MIN. TRACER
WIRE TO BE INSTALLED ALONG ALL PIPE,
WITH THE EXCEPTION OF SEWER LINE
(SEE SHEET CW3)

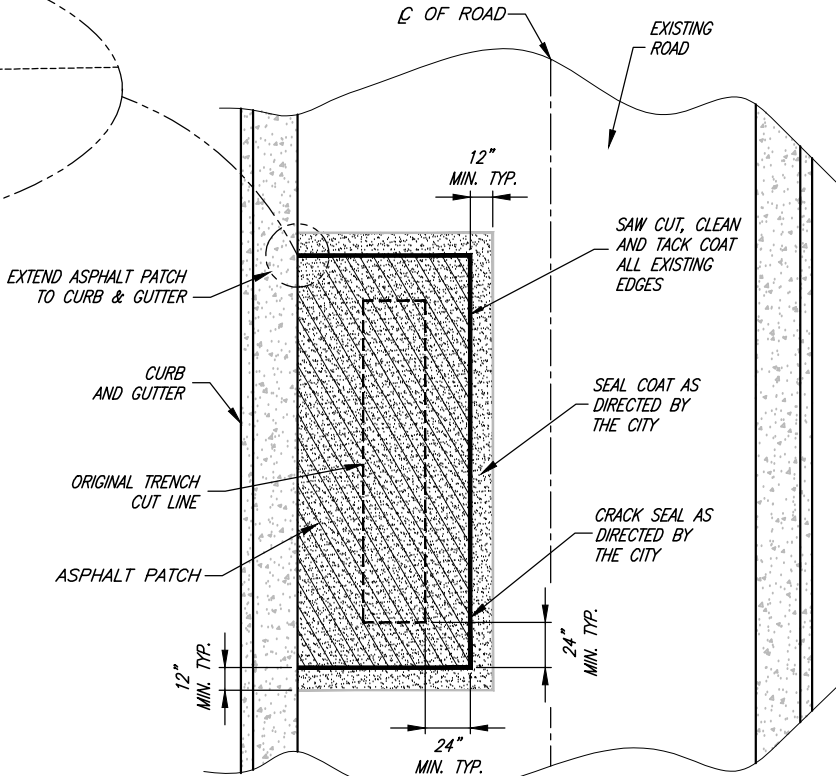
SHAPE TRENCH BY HAND TO FIT
BOTTOM QUADRANT OF PIPE FOR
ALL SEWER AND DRAIN LINES

TYPICAL TRENCH SECTION

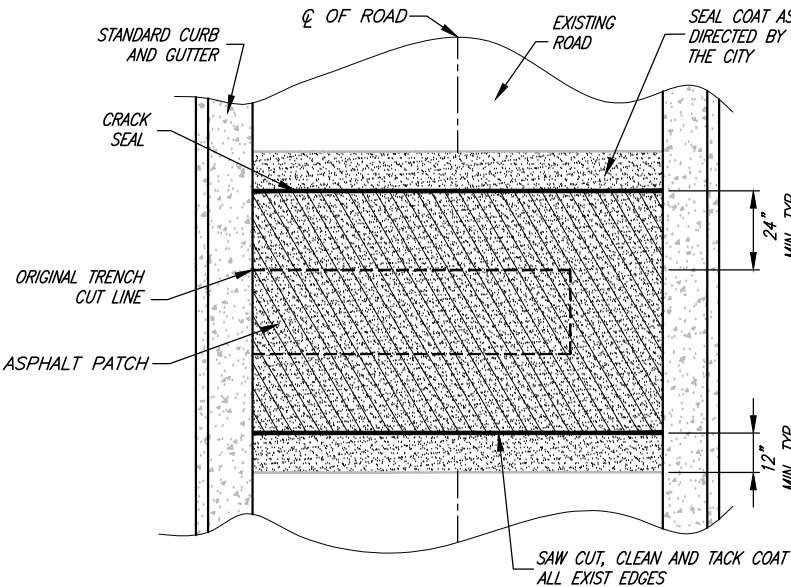
(WATER, IRRIGATION, SEWER, STORM DRAIN, AND LAND DRAIN)

TRENCH NOTES:

- BACKFILL PER APWA 33 05 20.
- COMPACTION TEST REQUIRED AT SPRING-LINE FOR ALL P.V.C. OR H.D.P.E. PIPES.
- PAVEMENT RESTORATION PER APWA 33 05 25 AND CITY MODIFICATIONS.
- GRAVEL SURFACED AREAS, SUCH AS ROADS AND SHOULDERS, PARKING AREAS, AND UNPAVED DRIVEWAYS, SHALL BE REPAIRED WITH 8" THICK (MIN.) 1" UNTREATED BASE COURSE COMPACTED TO 95% MODIFIED PROCTOR.
- WATER & SEWER LINES, INCLUDING SERVICE LINES, SHALL NOT BE INSTALLED IN THE SAME TRENCH.



TYPICAL PARALLEL ASPHALT PATCH PLAN



TYPICAL HORIZONTAL ASPHALT PATCH PLAN

ASPHALT PATCH NOTE:

- ON ANY ROAD PAVED OR OVERLAYED WITHIN THE LAST 10 YEARS, THE PATCH MUST BE COMPLETED PER APWA PLAN 255 BITUMINOUS PAVEMENT T-PATCH. (SEE SHEET R12)
- NO ANGLED ASPHALT PATCHING ALLOWED.



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11/28/2023
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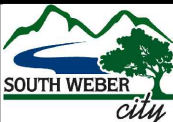
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SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - ROAD IMPROVEMENT STANDARDS
UTILITY TRENCH, UTILITY POTHOLES, AND
ASPHALT PATCH PLAN DETAILS

SHEET:
R11
OF 34 SHEETS
0

BITUMINOUS PAVEMENT T-PATCH NOTES:

1. GENERAL:

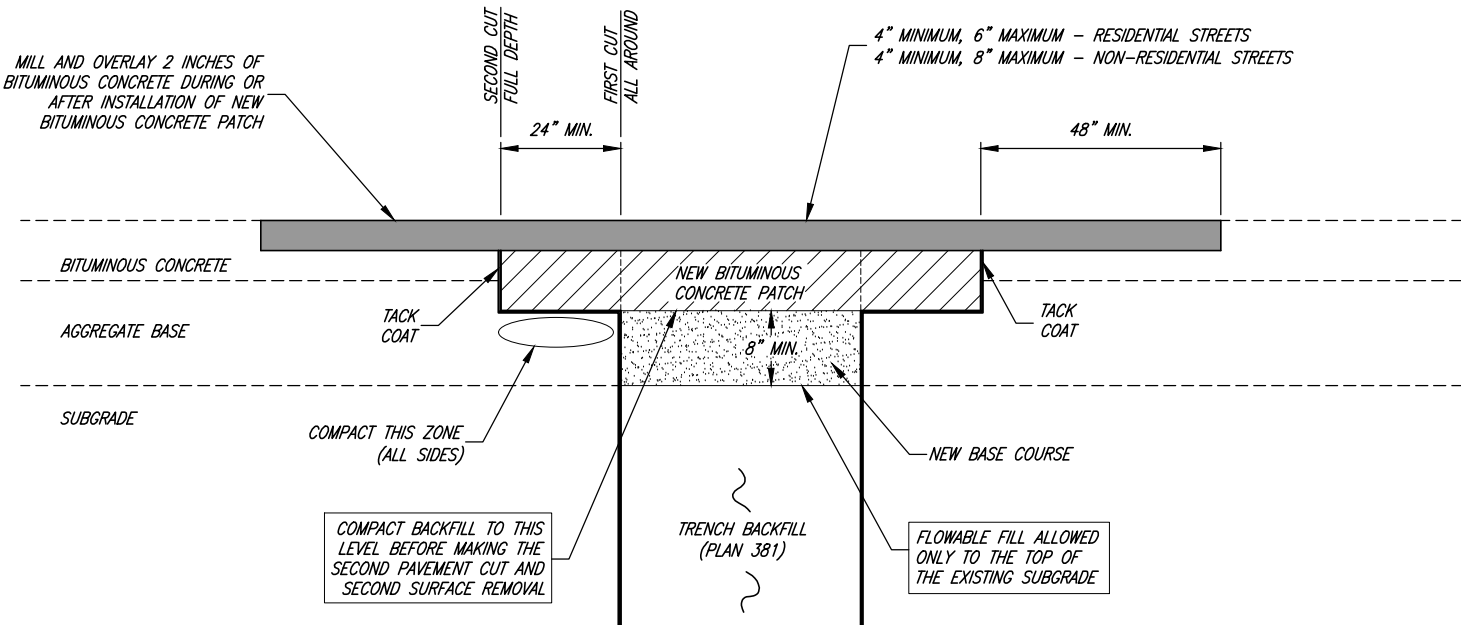
- A. VERTICAL CUTS IN BITUMINOUS PAVEMENT MAY BE DONE BY SAW OR PAVEMENT ZIPPING. IF CUTS GREATER THAN 6 INCHES ARE NECESSARY TO PREVENT PAVEMENT "BREAK OFF" CONSULT CITY ENGINEER FOR DIRECTION ON HANDLING ADDITIONAL COSTS.
- B. REPAIR A T-PATCH RESTORATION IF ANY OF THE FOLLOWING CONDITIONS OCCUR PRIOR TO FINAL PAYMENT OR AT THE END OF THE ONE YEAR CORRECTION PERIOD:
- PAVEMENT SURFACE DISTORTION EXCEEDS 1/4-INCH DEVIATION IN 10 FEET.
REPAIR OPTION - PLANE OFF SURFACE DISTORTIONS. COAT PLANED SURFACE WITH A CATIONIC OR ANIONIC MULSION THAT COMPLIES WITH APWA SECTION 32 12 03.
 - SEPARATION APPEARS AT A CONNECTION TO AN EXISTING PAVEMENT OR ANY STREET FIXTURE.
REPAIR OPTION - BLOW SEPARATION CLEAN AND APPLY JOINT SEALANT, PLAN 265.
 - CRACKS AT LEAST 1-FOOT LONG AND 1/4-INCH WIDE OCCUR MORE OFTEN THAN 1 IN 10 SQUARE FEET.
REPAIR OPTION - BLOW CLEAN AND APPLY CRACK SEAL, PLAN 265.
 - PAVEMENT RAVELING IS GREATER THAN 1 SQUARE FOOT PER 100 SQUARE FEET.
REPAIR OPTION - MILL AND INLAY, APWA SECTIONS 32 01 16.71 AND 32 12 05.

2. PRODUCTS:

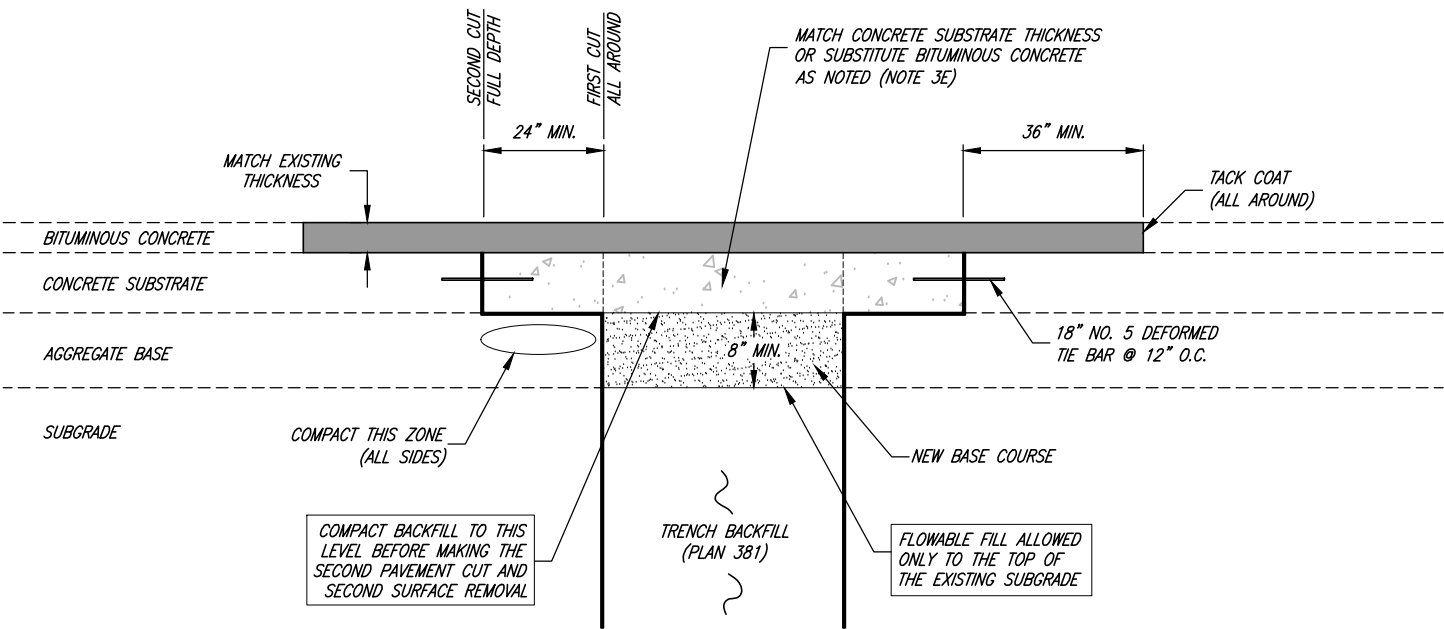
- A. BASE COURSE: UNTREATED BASE COURSE, APWA SECTION 32 11 23. DO NOT USE GRAVEL AS A BASE COURSE WITHOUT ENGINEER'S PERMISSION.
- B. FLOWABLE FILL: TARGET IS 60 PSI IN 28 DAYS WITH 90 PSI MAXIMUM IN 28 DAYS, APWA SECTION 31 05 15. IT MUST FLOW EASILY REQUIRING NO VIBRATION FOR CONSOLIDATION.
- C. REINFORCEMENT: NO. 5 GALVANIZED OR EPOXY COATED, DEFORMED, 60 KSI YIELD GRADE STEEL, ASTM A615.
- D. CONCRETE: CLASS 4000, APWA SECTION 03 30 04.
- E. TACK COAT: APWA SECTION 32 12 05.
- F. BITUMINOUS CONCRETE: APWA SECTION 32 12 05.
- WARM WEATHER PATCH: PG64-22-DM-1/2, UNLESS INDICATED OTHERWISE.
 - COLD WEATHER PATCH: MODIFIED MC-250-FM-1 AS INDICATED IN APWA SECTION 33 05 25.

3. EXECUTION:

- A. BASE COURSE PLACEMENT: APWA SECTION 32 05 10. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8-INCHES WHEN USING RIDING EQUIPMENT OR 6-INCHES WHEN USING HAND HELD EQUIPMENT. COMPACTION IS 95 PERCENT OR GREATER RELATIVE TO A MODIFIED PROCTOR DENSITY, APWA SECTION 31 23 26.
- B. FLOWABLE FILL: CURE TO INITIAL SET BEFORE PLACING AGGREGATE BASE OR BITUMINOUS PAVEMENT. USE IN EXCAVATIONS THAT ARE TOO NARROW TO RECEIVE COMPACTION EQUIPMENT.
- C. TACK COAT: CLEAN ALL HORIZONTAL AND VERTICAL SURFACES. APPLY FULL COVERAGE ALL SURFACES.
- D. PAVEMENT PLACEMENT: FOLLOW APWA SECTION 32 12 16.13. UNLESS INDICATED OTHERWISE, LIFT THICKNESS IS 3-INCHES MINIMUM AFTER COMPACTION. COMPACT TO 94 PERCENT OF ASTM D2041 (RICE DENSITY) PLUS OR MINUS 2 PERCENT.
- E. BITUMINOUS CONCRETE SUBSTITUTION: IF BITUMINOUS CONCRETE IS SUBSTITUTED FOR PORTLAND CEMENT CONCRETE SUBSTRATE, OMIT REBAR AND PROVIDE 1.25 INCHES OF BITUMINOUS CONCRETE FOR EACH 1 INCH OF PORTLAND CEMENT CONCRETE. FOLLOW PARAGRAPH E REQUIREMENTS.
- F. REINFORCEMENT: REQUIRED IF THICKNESS OF EXISTING PORTLAND-CEMENT CONCRETE SUBSTRATE IS 6-INCHES OR GREATER. NOT REQUIRED IF:
- LESS THAN 6-INCHES THICK,
 - IF EXISTING CONCRETE IS DETERIORATING,
 - IF EXCAVATION IS LESS THAN 3 FEET SQUARE, OR
 - IF BITUMINOUS PAVEMENT IS SUBSTITUTED FOR PORTLAND-CEMENT CONCRETE SUBSTRATE.
- G. CONCRETE SUBSTRATE: CURE TO INITIAL SET BEFORE PLACING NEW BITUMINOUS CONCRETE PATCH.



BITUMINOUS CONCRETE RESTORATION



COMPOSITE RESTORATION



Bituminous pavement T-patch

Plan
255
November 2015



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11/28/2023
DATE

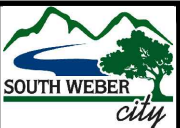
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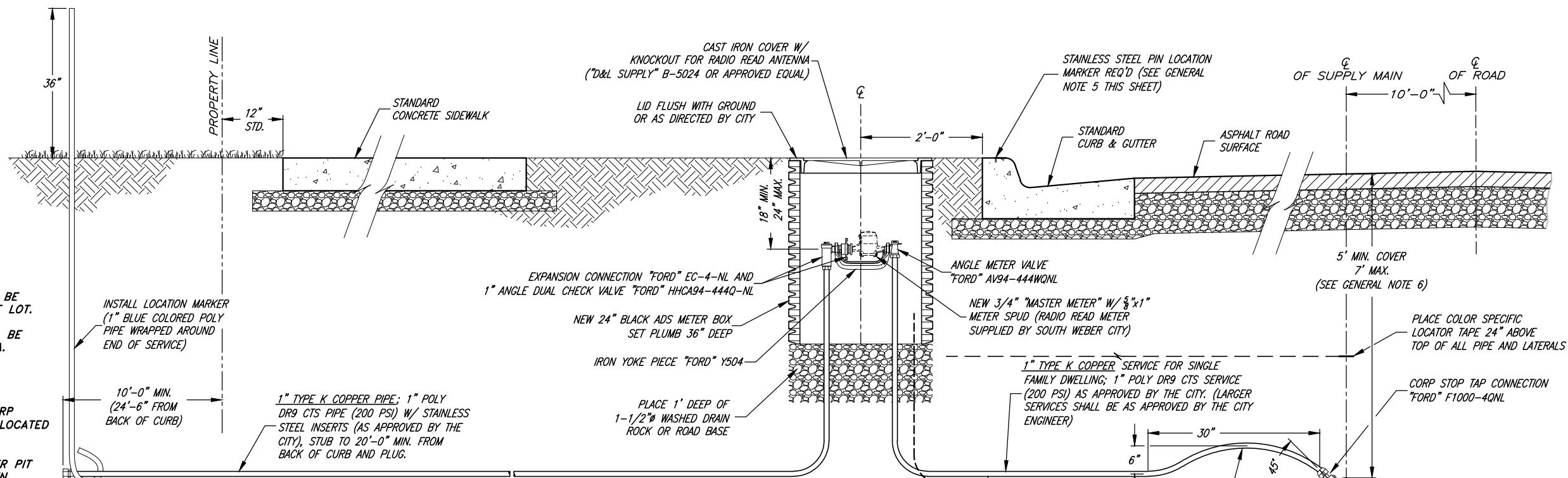


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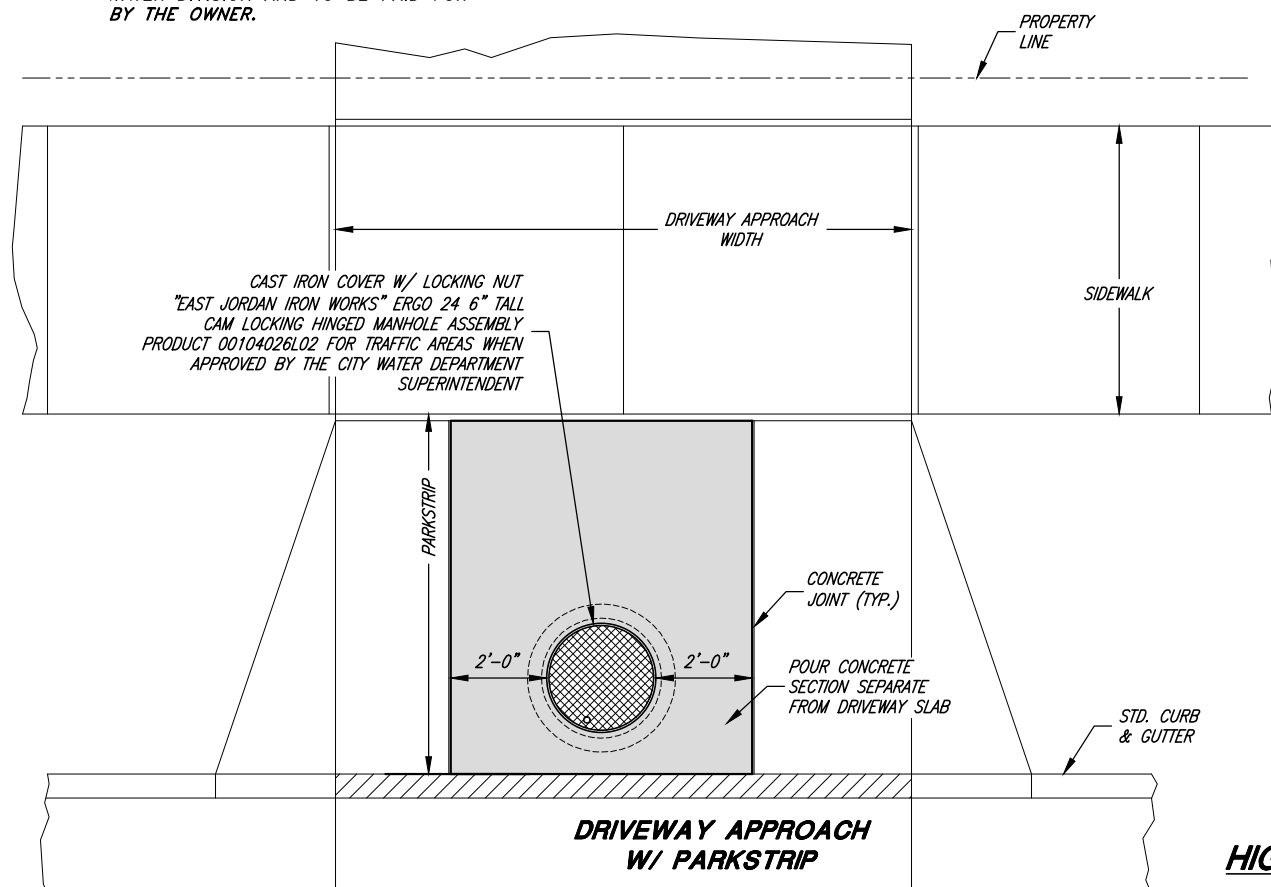
SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - ROAD IMPROVEMENT STANDARDS
APWA PLAN 255 BITUMINOUS PAVEMENT T-PATCH

SHEET:
R12
OF 34 SHEETS
0



METER LOCATION NOTES:

1. ALL CULINARY WATER METERS SHALL BE CENTERED ON THE FRONTAGE OF THE LOT.
2. CULINARY WATER METERS SHALL NOT BE LOCATED WITHIN THE DRIVEWAY AREA.
3. IF A DRIVEWAY IS PLACED OVER AN EXISTING METER:
 - a. THE "ENTIRE" SERVICE LINE, CORP STOP, AND METER SHALL BE RELOCATED AT THE OWNER'S EXPENSE, OR
 - b. HIGH TRAFFIC RESIDENTIAL METER PIT MAY BE INSTALLED WITH WRITTEN APPROVAL FROM THE CITY WATER DIVISION. THIS IS DETERMINED ON A CASE BY CASE BASIS BY THE CITY WATER DIVISION AND TO BE PAID FOR BY THE OWNER.



HIGH TRAFFIC RESIDENTIAL METER PIT DETAIL

THE USE OF A HIGH TRAFFIC RESIDENTIAL SERVICE METER PIT IS SITE SPECIFIC AND
REQUIRES WRITTEN APPROVAL FROM THE WATER SYSTEM SUPERINTENDENT PRIOR TO
INSTALLATION

- GENERAL NOTES:

7. ALL FITTINGS SHALL BE "MUELLER" COMPRESSION TYPE UNLESS OTHERWISE NOTED.
2. "BLUE" BOLTS AND NUTS ARE REQUIRED BY THE CITY.
3. ALL SUPPLIES, LABOR, MACHINERY, ETC. WILL BE SUPPLIED BY THE CONTRACTOR. SOUTH WEBER CITY WILL SUPPLY AND SET THE METER ONLY ON 1" CONNECTIONS. THE CONTRACTOR SHALL SUPPLY METERS FOR CONNECTIONS GREATER THAN 1" (SEE SHEET CW4).
4. ALL SPECIFIED BRANDS OF MATERIALS SHOWN ON THESE DRAWINGS ARE "CITY STANDARDS." OTHER EQUIVALENT BRANDS MAY BE USED WITH PRIOR APPROVAL OF THE CITY ENGINEER AND THE CITY WATER SYSTEM SUPERINTENDENT.
5. STAMPED STAINLESS STEEL PINS USED FOR LATERAL LOCATING ARE REQUIRED BY THE CITY. BLANK S.S. PINS SHALL BE PROVIDED BY THE CITY AND INSTALLED AND STAMPED BY THE CONTRACTOR DURING ALL NEW CONSTRUCTION OR RESTORED WHEN REPLACING DAMAGED CURB & GUTTER DUE TO ANY CONSTRUCTION RELATED ACTIVITY. S.S. PINS SHALL BE STAMPED "S" FOR SANITARY SEWER, "W" FOR CULINARY WATER, AND "L" FOR LAND DRAIN.
6. ALL CULINARY WATER MAINS AND SERVICES MUST MAINTAIN A MINIMUM SEPARATION ABOVE ALL SEWER MAINS AND LATERALS OF 18" VERTICAL AND 10'-0" HORIZONTAL IN ACCORDANCE WITH THE STATE OF UTAH DIVISION OF DRINKING WATER (DDW) RULES SECTION R309-550-7. EXCEPTIONS MUST BE APPROVED BY DDW.



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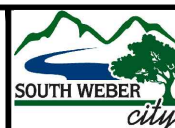
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SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - CULINARY WATER SYSTEM STANDARDS
RESIDENTIAL WATER SERVICE CONNECTION DETAILS

SHEET:
CW1
OF 34 SHEETS

PROPERTY LINE

"POLLARDWATER" GALVANIZED STEEL FLEXI-FLAG HYDRANT MARKER, 53", INSTALLED AT BASE OF HYDRANT PER MANUFACTURER RECOMMENDATIONS. (FIBERGLASS POLES ARE NOT PERMITTED)

"MUELLER" SUPER CENTURION 250 A-423 FIRE HYDRANT

LID MUST SPECIFY "SOUTH WEBER WATER," EAST JORDAN IRON WORKS 6800 VALVE BOX COVER OR APPROVED EQUAL

CONCRETE COLLAR (SEE SHEET R10) AND VALVE COLLAR DETAIL THIS SHEET

STANDARD CURB & GUTTER W/ 30 FOOT NO PARKING ZONE (PAINT CURB RED 15 FEET IN BOTH DIRECTIONS AS MEASURED FROM THE CENTER OF THE FIRE HYDRANT)

OF SUPPLY MAIN

CONCRETE COLLAR (SEE SHEET R10)

OF ROAD

ASPHALT ROAD SURFACE

FIRE HYDRANT NOTES:

- B1. FIRE HYDRANTS ARE TO BE INSTALLED IN LOCATIONS AS REQUIRED BY THE FIRE CODE AND APPROVED BY THE FIRE CHIEF AND CITY ENGINEER.
- B2. FIRE HYDRANTS ARE ALSO REQUIRED TO BE INSTALLED AT THE ENDS OF CUL-DE-SACS AND DEAD ENDS FOR BLOW-OFF PURPOSES.
- B3. DEPENDING ON ITS LOCATION, A FIRE HYDRANT MAY SERVE FOR BOTH FIRE PROTECTIONS AND BLOW-OFF PURPOSES.

1.5 CU. YD 1" WASHED ROCK FOR DRAIN MEDIA PLACED BELOW DRAIN PLUG OPENINGS

POLY WRAP HYDRANT PRIOR TO CONCRETE THRUST BLOCK

6" DR-18 C900 PIPE

5' MIN. COVER 7' MAX. (SEE GENERAL NOTE 7)

CAST IRON SLIP TYPE VALVE BOX & LOCKING LID. "EAST JORDAN IRON WORKS" 8555 VALVE BOX, "TYLER" 664-A, OR APPROVED EQUAL

6" FL x MJ GATE VALVE (SEE GENERAL NOTE 2 THIS SHEET)

d"x6" MJxMJxFL TEE

MIN 8" CULINARY WATER SUPPLY MAIN FOR DISTRIBUTION SYSTEM SERVING FIRE HYDRANT

CONCRETE THRUST BLOCK

TRACER WIRE REQ'D (SEE SHEET CW3)

WATER MAIN

FIRE HYDRANT & GATE VALVE DETAIL

GENERAL NOTES:

- "BLUE" BOLTS AND NUTS ARE REQUIRED BY THE CITY.
- ALL WATER MAIN AND HYDRANT GATE VALVES TO BE AWWA C509 RESILIENT WEDGE "MUELLER" A-2361 OR "CLOW" 2639 VALVES (ANY CHIPS IN THE VALVE FACTORY COATING DUE TO SHIPPING/INSTALLATION MUST BE REPAIRED USING AN APPROVED EPOXY COATING)
- ALL SPECIFIED BRANDS OF MATERIALS SHOWN ON THESE DRAWINGS ARE "CITY STANDARDS." OTHER EQUIVALENT BRANDS MAY BE USED WITH PRIOR APPROVAL OF THE CITY ENGINEER AND THE CITY WATER SYSTEM SUPERINTENDENT.
- PIPES, JOINTS, FITTINGS, VALVES, & FIRE HYDRANTS SHALL CONFORM TO ANSI / NSF 61.
- FIRE HYDRANTS SHALL NOT BE LOCATED WITHIN 10 FEET OF A SANITARY SEWER OR WITHIN 10 FEET OF STORM DRAIN WHERE POSSIBLE.
- ALL WATER SYSTEM MATERIALS SHALL BE NEW; USED MATERIALS ARE NOT ALLOWED.
- ALL CULINARY WATER MAINS AND SERVICES MUST MAINTAIN A MINIMUM SEPARATION ABOVE ALL SEWER MAINS AND LATERALS OF 18" VERTICAL AND 10'-0" HORIZONTAL IN ACCORDANCE WITH THE STATE OF UTAH DIVISION OF DRINKING WATER (DDW) RULES SECTION R309-550-7. EXCEPTIONS MUST BE APPROVED BY DDW.

AIR/VACUUM RELIEF STATION NOTES:

- A1. THE USE OF AN "APCO" MODEL 145C OR "VAL-MATIC" MODEL 202C COMBINATION AIR/VACUUM VALVE IS ACCEPTED WHEN APPROVED BY THE CITY WATER DEPARTMENT SUPERINTENDENT. UPSIZE VENT PIPE, AIR VENT AND FITTINGS (ITEMS D, E, F, H AND I) TO 2" DIA. AND GALVANIZED WHEN USING ALTERNATE VALVES.
- A2. NO MORE THAN 12" OF GRADE RINGS TO BE ALLOWED ON ANY MANHOLE

PIPE & FITTING SCHEDULE

NO.	DESCRIPTION	FITTING
A	2" COMBINATION AIR-VACUUM RELIEF VALVE "A.R.I." MODEL D-040 W/ NPT CONNECTIONS	THR.
B	2" BRASS BALL VALVE (1/4 TURN)	THR.
C	2" BRASS DOUBLE S.S. STRAPS SERVICE SADDLE	
D	1 1/2" SCH. 80 PVC PIPE	THR.
Ds	1 1/2" POLY PIPE	THR.
E	1 1/2" GALV. STEEL 90° ELBOW	THR.
F	1 1/2" SCH. 80 PVC UNION	THR.
G	2" BRASS PIPE	THR.
H	1 1/2" SCH. 80 PVC TEE	THR.
I	1 1/2" GALV. STEEL PIPE	THR.

CONCRETE COLLAR (SEE SHEET R10)

30" "D&L SUPPLY" A-1180 VENTED RING & COVER MARKED "WATER"

STANDARD CURB & GUTTER

FINISHED GRADE

GRADE RINGS AS REQ'D (SEE NOTE 2)

18" MAX.

SEAL ALL JOINTS W/ "RAM-NECK" OR "KENT SEAL" GROUT

POLY MANHOLE STEPS, UNIFORMLY SPACED @ 1'-0" MAX.

5'-0" MIN. COVER

5" CL-IV R.C.P. MANHOLE SECTION

INSULATED VALVE COVER BY OTHERS

12" MIN

WASHED DRAIN ROCK

WATER MAIN

8" MIN.

6"

(ALL-AROUND)

"THORITE" GROUT SEAL OR APPROVED EQUIVALENT

D OR Do

WELD NUT IN PLACE

DETAIL "B"

DETAIL "A"

20 MESH S.S. SCREEN OVER OPENING

1 1/2" ALUMINUM T-STYLE AIR VENT "MORRISON BROS. CO." MODEL # 155 (THR.)

WELD #10 GA. PLATE TO 12" PIPE COVER-GRIND/CHAMFER EXPOSED EDGES

1/2"x12" DIA. STEEL PIPE (GALV. AFTER FABRICATION). COAT W/ EPOXY BASE PAINT - COLOR AS DETERMINED BY CITY. BOLT TO COUPLING AS SHOWN.

DRILL 8 COLUMNS OF 5 HOLES EA. 1/2" HOLES, STAGGERED AS SHOWN

12" GALV. STEEL COUPLING CAST INTO CONC. BASE

1" CHAMFER ON ALL EXPOSED EDGES

PLACE 1 CU. YD. 2"+ DRAIN ROCK

**LOCATION OF VENT PIPE TO BE DETERMINED BY CITY ENGINEER



PROJECT ENGINEER
11/28/2023
DATE

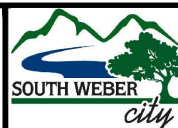
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SCALE:
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DESIGNED BKJ
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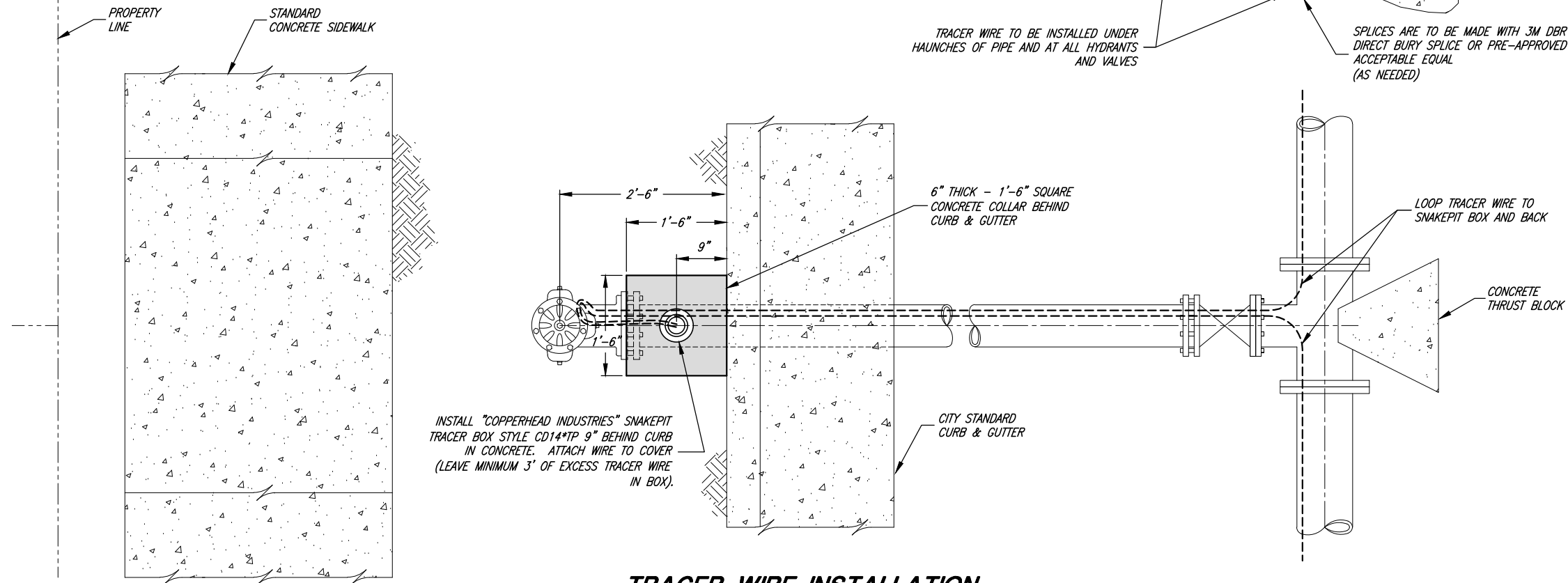
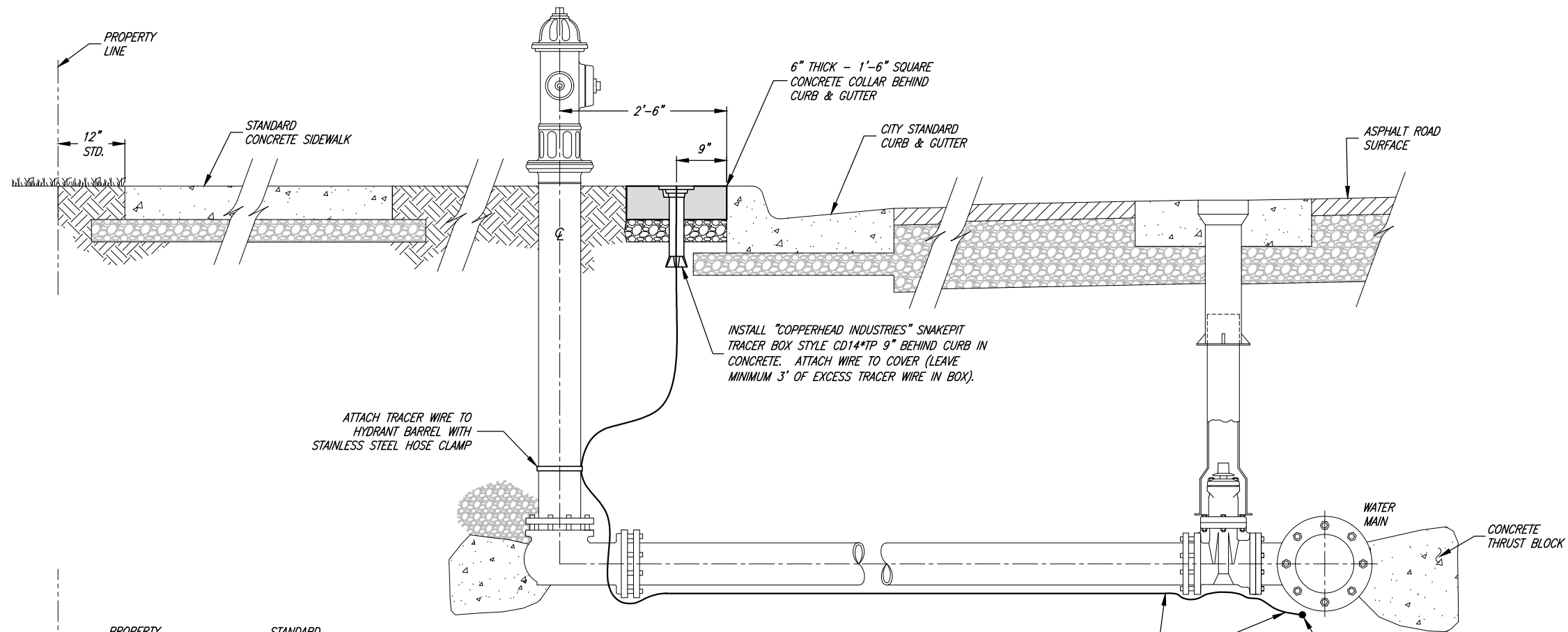


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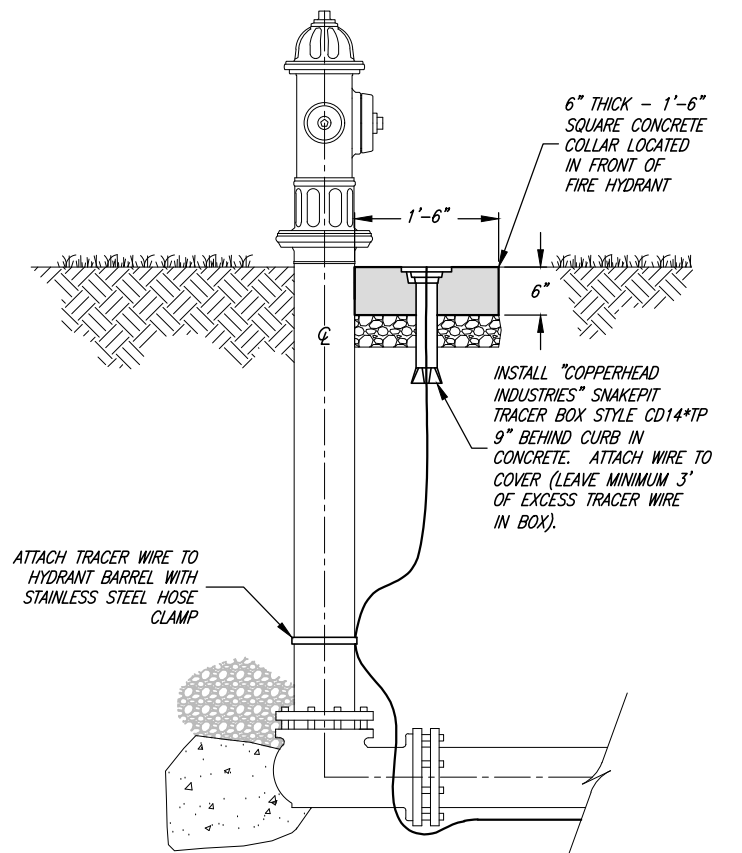
SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - CULINARY WATER SYSTEM STANDARDS
FIRE HYDRANT, GATE VALVE, AND AIR/VACUUM RELIEF STATION DETAILS

SHEET:
CW2
OF 34 SHEETS
0



TRACER WIRE INSTALLATION

CITY STANDARD STREET SECTION (CURB & GUTTER)



ALTERNATE TRACER WIRE INSTALLATION

WHERE APPROVED BY THE WATER SYSTEM SUPERINTENDENT ON STREET SECTIONS WITH NO CURB & GUTTER

NOTES:

1. ALL WATERLINES SHALL HAVE A MINIMUM 12 GA. INSULATED TRACER WIRE INSTALLED UNDER THE HAUNCHES OF THE PIPE PRIOR TO BACKFILLING.
2. TRACER WIRES SHALL TERMINATE AT ALL FIRE HYDRANTS. AT SERVICE SADDLES AND TAPPING SLEEVES, THE TRACER WIRE SHALL NOT BE ALLOWED TO BE PLACED BETWEEN THE SADDLE AND THE PIPE. A GROUNDING ROD SHALL BE INSTALLED AT ALL TRACER SYSTEM TERMINAL POINTS.
3. TRACER WIRE SHALL BE COPPER WIRE WITH BLUE INSULATION RATED FOR DIRECT BURIAL. ALL WIRE CONNECTORS SHALL BE 3M DBR DIRECT BURY SPlice OR PRE-APPROVED ACCEPTABLE EQUAL AND SHALL BE WATERTIGHT TO PROVIDE ELECTRICAL CONTINUITY.
4. ALL TRACER WIRE SHALL BE TESTED FOR CONTINUITY IN THE PRESENCE OF THE PUBLIC WORKS INSPECTOR PRIOR TO ASPHALT PLACEMENT. ANY TRACER WIRE FOUND NOT TO BE CONTINUOUS AFTER TESTING SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR PRIOR TO ASPHALT PLACEMENT.



PROJECT ENGINEER
11/28/2023
DATE

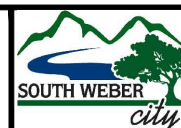
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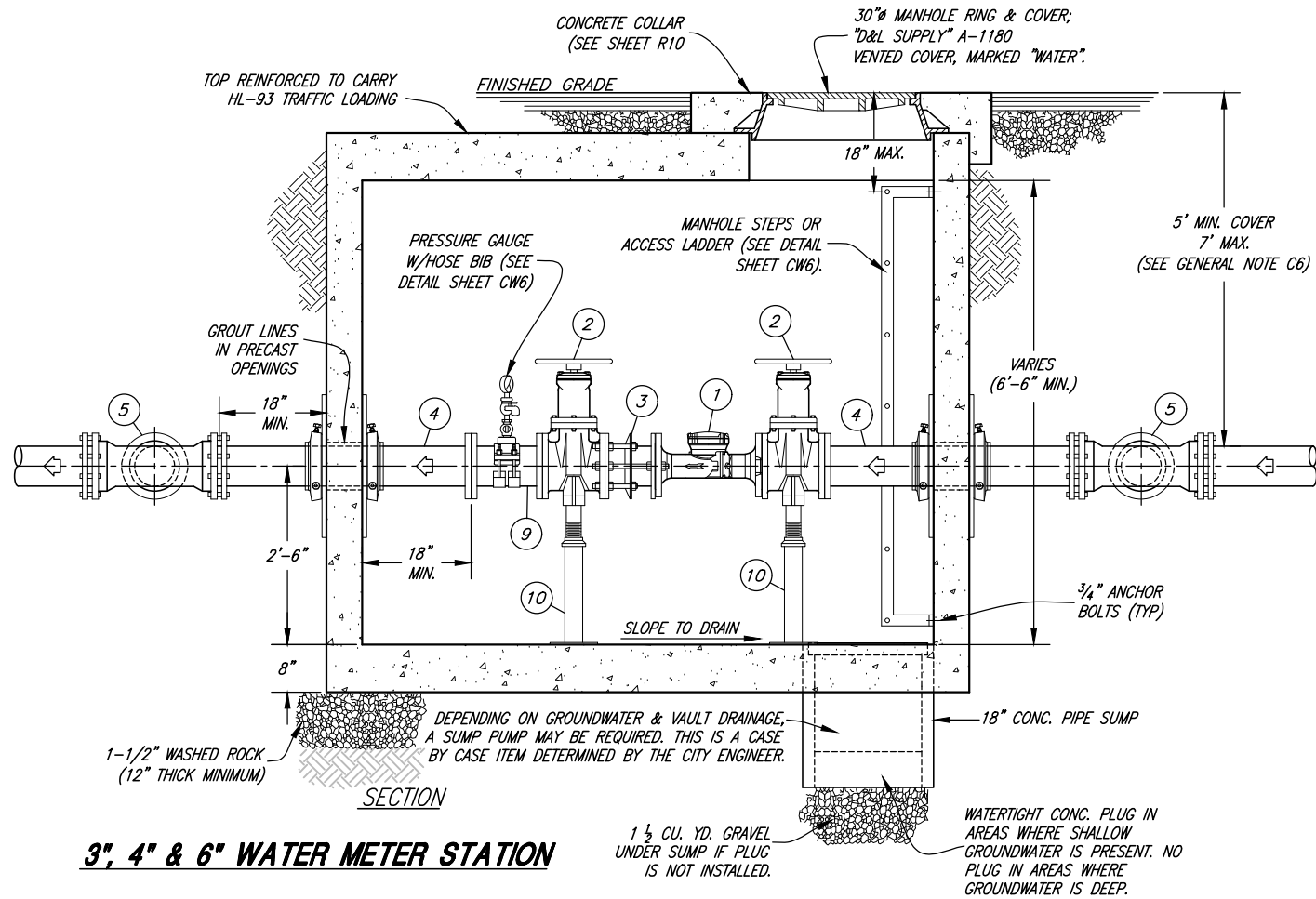
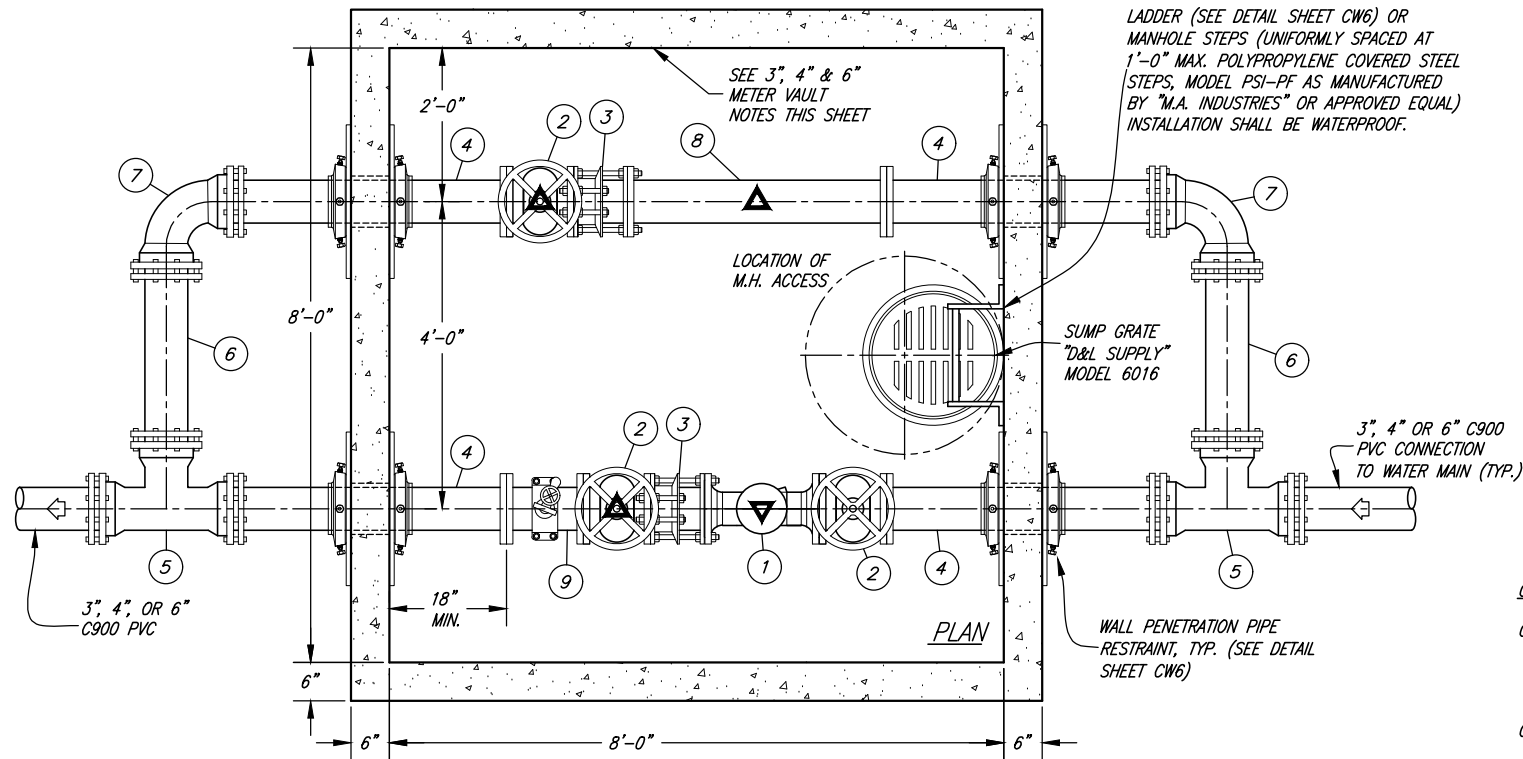


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TRACER WIRE INSTALLATION DETAILS

SHEET:
CW3
OF 34 SHEETS
0



3, 4" & 6" WATER METER STATION

LADDER (SEE DETAIL SHEET CW6) OR MANHOLE STEPS (UNIFORMLY SPACED AT 1'-0" MAX. POLYPROPYLENE COVERED STEEL STEPS, MODEL PSI-PF AS MANUFACTURED BY "M.A. INDUSTRIES" OR APPROVED EQUAL) INSTALLATION SHALL BE WATERPROOF.

3", 4" & 6" METER VAULT NOTES:

- A1. ALL FITTINGS OUTSIDE OF THE VAULT ARE TO BE DUCTILE IRON MJ WITH THRUST RESTRAINT RETAINER GLANDS ("ROMAC", MJRG, OR APPROVED EQUAL).
- A2. PENETRATION WALLS NEED TO BE ADEQUATELY DESIGNED STRUCTURALLY FOR ANTICIPATED THRUST.
- A3. THE PRECAST VAULT MANUFACTURER IS RESPONSIBLE FOR DESIGN RELATED TO TRAFFIC LOADING AND THRUST. VERIFICATION OF PROPER DESIGN MUST BE PROVIDED TO THE CITY BY THE DEVELOPER, CONTRACTOR, OR PROPERTY OWNER AS THE CASE MAY BE.
- A4. ALL FITTINGS SHALL BE AWWA C-110 WITH 125 LB. FLANGES. ALL PIPING SHALL BE DUCTILE IRON PIPE CLASS 350 P.S.I. MIN.

NOTE:
ALL SPECIFIED BRANDS OF MATERIALS SHOWN ON THESE DRAWINGS ARE "CITY STANDARDS." OTHER EQUIVALENT BRANDS MAY BE USED WITH PRIOR APPROVAL OF THE CITY ENGINEER AND THE CITY WATER SYSTEM SUPERINTENDENT.

GENERAL NOTES:

- C1. PROPERTY OWNER OR CONTRACTOR SHALL PAY FOR ALL COSTS OF INSTALLATION INCLUDING ALL MATERIALS, ALL EXCAVATION AND FILL, ASPHALT REPLACEMENT AND WATER MAIN CONNECTION.
- C2. INSPECTION OF ALL WATER LINE INSTALLATIONS WILL BE DONE BY THE CITY WATER DEPARTMENT, WITH A 48 HOUR MINIMUM NOTICE REQUIRED PRIOR TO START OF WORK.
- C3. IF APPLICABLE, A CITY EXCAVATION PERMIT MUST BE REQUESTED AND APPROVED PRIOR TO START OF WORK.
- C4. "BLUE" BOLTS AND NUTS ARE REQUIRED BY THE CITY.
- C5. CONTRACTOR TO SUPPLY ALL METERS 1 1/2" OR LARGER.
- C6. ALL CULINARY WATER MAINS AND SERVICES MUST MAINTAIN A MINIMUM SEPARATION ABOVE ALL SEWER MAINS AND LATERALS OF 18" VERTICAL AND 10'-0" HORIZONTAL IN ACCORDANCE WITH THE STATE OF UTAH DIVISION OF DRINKING WATER (DDW) RULES SECTION R309-550-7. EXCEPTIONS MUST BE APPROVED BY DDW.

1 1/2" & 2" METER NOTES:

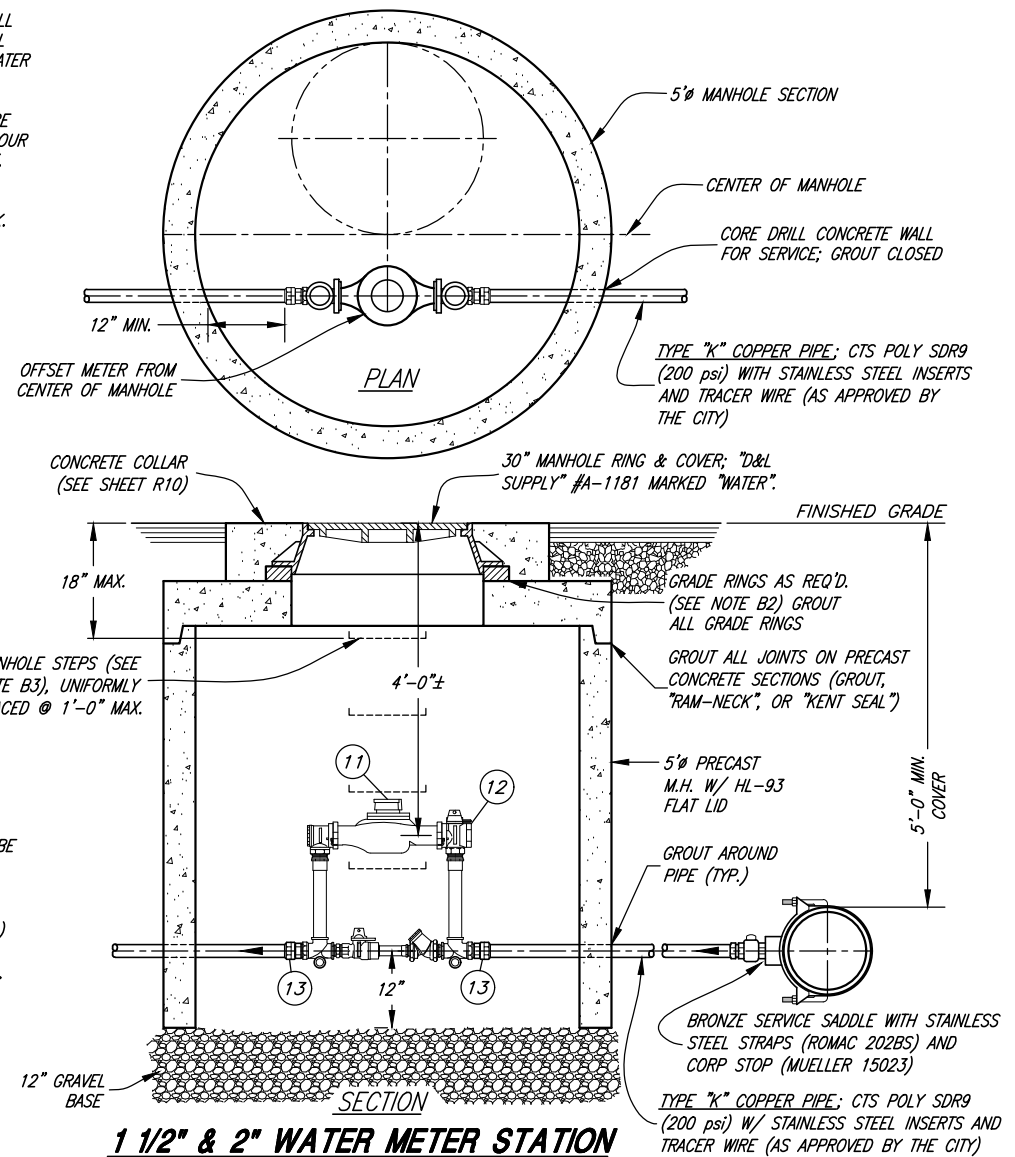
- B1. 1 1/2" SERVICE LINE-13" METER
2" SERVICE LINE-17" METER
- B2. NO MORE THAN 12" OF GRADE RINGS TO BE ALLOWED ON ANY MANHOLE
- B3. MANHOLE STEPS (FOR MANHOLES OVER 6' DEEP.) UNIFORMLY SPACED (1'-0" MAX.) POLYPROPYLENE COVERED STEEL STEPS, MODEL PSI-PF AS MANUFACTURED BY "M.A. INDUSTRIES" OR APPROVED EQUAL - STEPS SHALL BE WATERPROOF.

PIPE & FITTING SCHEDULE

NO.	DESCRIPTION (3", 4" & 6" METER STA.)	JOINT TYPE	3" LINE	4" LINE	6" LINE
1	"MASTER METER" OCTAVE ULTRASONIC METER W/ 3G INTEGRATED REGISTER	FL	3"	4"	6"
2	"MUELLER" RESILIENT WEDGE GATE VALVE W/ HANDWHEEL (3)	FL	3" A-2362	4" A-2361	6" A-2361
3	"ROMAC" DJ400 DISMANTLING JOINT (2)	FL	3"	4"	6"
4	NIPPLE	FLxPE	3"	4"	6"
5	TEE	MJ	3"	4"	6"
6	PIPE SECTION	PE	3"	4"	6"
7	90° ELBOW	MJ	3"	4"	6"
8	SPOOL PIECE	FL	3"	4"	6"
9	SPOOL PIECE	FL	3"	4"	6"
10	"ANVIL" #264 GALV. PIPE SUPPORT W/ COMPANION FLANGE & VARIABLE HEIGHT NIPPLE (4 EA REQ'D)				

△ SYMBOL

NO.	DESCRIPTION (1 1/2" & 2" METER STA.)	JOINT TYPE	1 1/2" LINE	2" LINE
11	"MASTER METER" INTERMEDIATE MULTI-JET METER W/3G INTEGRATED REGISTER	FL	1 1/2"	2"
12	"MUELLER" B-2423-2 METER YOKE (18" RISER)	-	1 1/2"	2"
13	"MUELLER" 110 COMPRESSION CONN. COUPLING	-	1 1/2"	2"



1 1/2" & 2" WATER METER STATION



BRANDON K. JONES
No. 5148758
PROJECT ENGINEER
11/28/2023
DATE

REV.	DATE	APPR.

SCALE:
N. T.S.

DESIGNED BKJ
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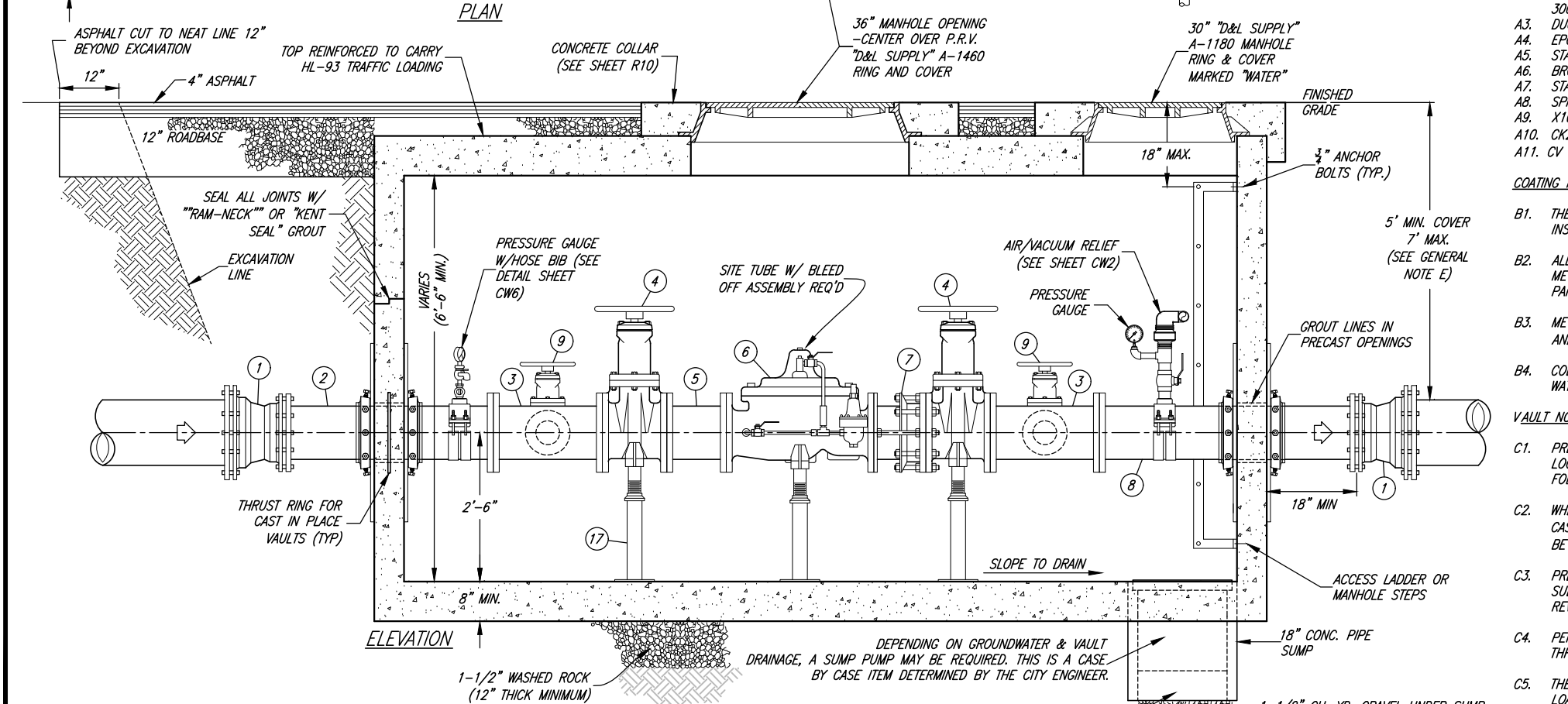
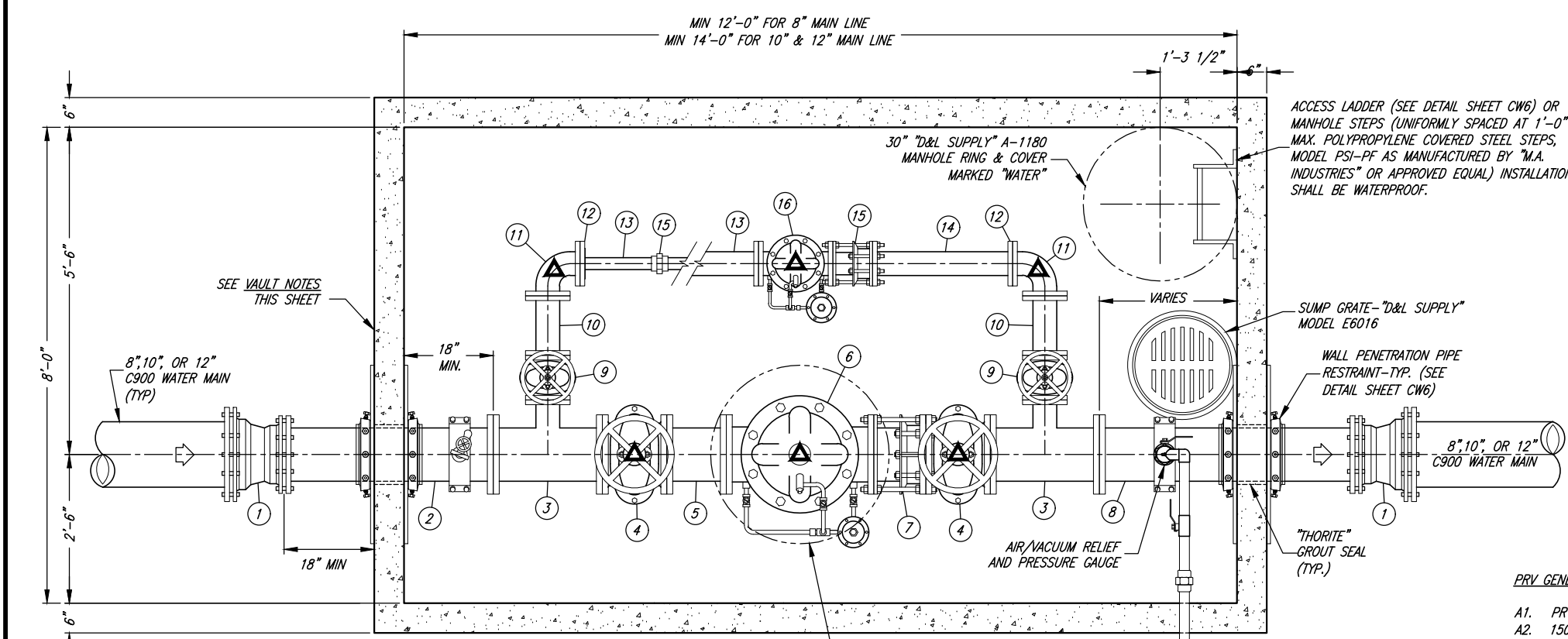


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PUBLIC WORKS - CULINARY WATER SYSTEM STANDARDS
TYPICAL WATER METER STATIONS

SHEET:
CW4
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PRESSURE REDUCTION STATION

PIPE & FITTING SCHEDULE					
NO.	DESCRIPTION	JOINT TYPE	8" LINE	10" LINE	12" LINE
1	D.I. REDUCER (2)	MxMJ	8"x6"	10"x8"	12"x10"
2	D.I. NIPPLE PIECE	FLxPE	6"	8"	10"
3	D.I. REDUCING TEE (2)	FL	6"x6"x4"	8"x8"x4"	10"x10"x4"
4	"MUELLER" A-2361 GATE VALVE W/ HANDWHEEL (2)	FL	6"	8"	10"
5	12" D.I. SPOOL PIECE	FL	6"	8"	10"
6	"CLA-VAL" 90-01 PRESSURE REDUCTION VALVE	FL	6"	8"	10"
7	"ROMAC" DJ400 DISMANTLING JOINT	FL	6"	8"	10"
8	D.I. NIPPLE PIECE	FLxPE	6"	8"	10"
9	"MUELLER" A-2361 GATE VALVE W/ HANDWHEEL (2)	FL	4"	4"	4"
10	12" D.I. SPOOL PIECE	FL	4"	4"	4"
11	D.I. 90° ELBOW (2)	FL	4"	4"	4"
12	BLIND FLANGE W/ THR. CONNECTION (2)	FLxTHR.	4"x2"	--	--
13	D.I. SPOOL PIECE BRASS PIPE	THR.	2"	--	--
14	D.I. SPOOL PIECE BRASS PIPE	THR.	2"	--	--
15	"ROMAC" DJ400 DISMANTLING JOINT BRASS UNION	THR.	2"	--	--
16	"CLA-VAL" 90-01 PRESSURE REDUCTION VALVE	THR.	2"	--	--
17	"ANVIL" #264 GALV. PIPE SUPPORT W/ 3" COMPANION FLANGE & VARIABLE HEIGHT 3" NIPPLE (6 EA REQ'D.)				

PRV GENERAL SPECIFICATIONS:

- A1. PRV TO BE CLA-VAL #90-01 YBCSKC
- A2. 150 # FLANGED FOR 250 PSI WORKING PRESSURE, 300# FLANGED IF GREATER THAN 250 PSI
- A3. DUCTILE IRON BODY GLOBE PATTERN
- A4. EPOXY LINED AND COATED
- A5. STAINLESS STEEL INTERNAL TRIM
- A6. BRONZE PILOT CONTROLS
- A7. STAINLESS STEEL TUBES & FITTINGS
- A8. SPRING RANGES FOR PRESSURE REDUCING PILOT
- A9. X101 VALVE POSITION INDICATOR
- A10. CK2 ISOLATION BALL VALVES (STAINLESS)
- A11. CV FLOW CONTROL (OPENING)

COATING NOTES:

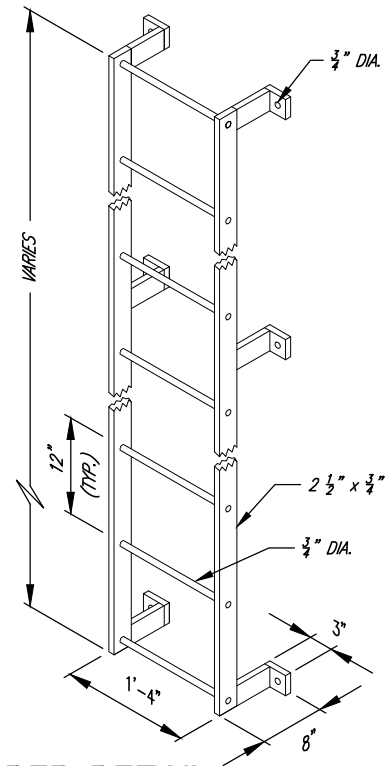
- B1. THE P.R.V. VALVE SHALL INCLUDE FACTORY INSTALLED INTERIOR EPOXY COATING.
- B2. ALL NEW AND EXISTING PIPING, VALVES, FITTINGS, METERS, ETC, INSIDE THE VAULT SHALL BE EPOXY PAINTED.
- B3. METAL SURFACES TO BE PAINTED SHALL BE PRIMED AND THEN PAINTED W/ TWO COATS OF EPOXY PAINT.
- B4. COLORS AS DIRECTED BY THE CITY ENGINEER OR CITY WATER SYSTEM SUPERINTENDENT.

VAULT NOTES:

- C1. PRE-PLUMBED PRV VAULTS ARE THE PREFERRED OPTION FOR INSTALLATION. THE USE AND LOCATION OF A PRE-PLUMBED PRV VAULT SHALL BE AS DIRECTED BY THE CITY ENGINEER FOLLOWING REVIEW OF CURRENT SITE CONDITIONS.
- C2. WHERE APPLICABLE, PRESSURE RELIEF VALVE ASSEMBLY MAY BE REQUIRED. THIS IS A CASE BY CASE ITEM DETERMINED BY THE CITY WATER DEPARTMENT (PRV VAULT WILL NEED TO BE LENGTHENED TO ACCOMMODATE SUCH VALVE)
- C3. PRECAST CONCRETE STRUCTURE CAN BE REPLACED WITH CAST-IN-PLACE CONCRETE VAULT. SUBMIT ENGINEERED CONSTRUCTION PLANS WITH REBAR DETAILS TO CITY ENGINEER FOR REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTION.
- C4. PENETRATION WALLS NEED TO BE ADEQUATELY DESIGNED STRUCTURALLY FOR ANTICIPATED THRUST.
- C5. THE PRECAST VAULT MANUFACTURER IS RESPONSIBLE FOR DESIGN RELATED TO HL-93 TRAFFIC LOADING AND THRUST. VERIFICATION OF PROPER DESIGN MUST BE PROVIDED TO THE CITY BY THE DEVELOPER, CONTRACTOR, OR PROPERTY OWNER AS THE CASE MAY BE.

GENERAL NOTES:

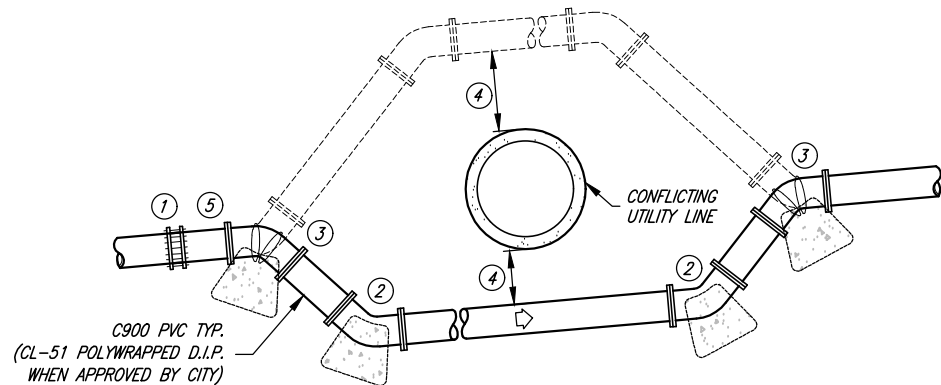
- A. "BLUE" BOLTS AND NUTS ARE REQUIRED BY THE CITY.
- B. ALL FITTINGS OUTSIDE OF THE VAULT ARE TO BE DUCTILE IRON MJ WITH THRUST RESTRAINT RETAINER GLANDS ("ROMAC", MJRG, OR APPROVED EQUAL)
- C. STRUCTURE, PIPING & VALVE SIZES FOR P.R.V. STATIONS ON LINE SIZES GREATER THAN 12" SHALL BE SPECIFIED BY THE CITY ENGINEER.
- D. ALL SPECIFIED BRANDS OF MATERIALS SHOWN ON THESE DRAWINGS ARE "CITY STANDARDS." OTHER EQUIVALENT BRANDS MAY BE USED WITH PRIOR APPROVAL OF THE CITY ENGINEER AND THE CITY WATER SYSTEM SUPERINTENDENT.
- E. ALL CULINARY WATER MAINS AND SERVICES MUST MAINTAIN A MINIMUM SEPARATION ABOVE ALL SEWER MAINS AND LATERALS OF 18" VERTICAL AND 10'-0" HORIZONTAL IN ACCORDANCE WITH THE STATE OF UTAH DIVISION OF DRINKING WATER (DDW) RULES SECTION R309-550-7. EXCEPTIONS MUST BE APPROVED BY DDW.



LADDER DETAIL

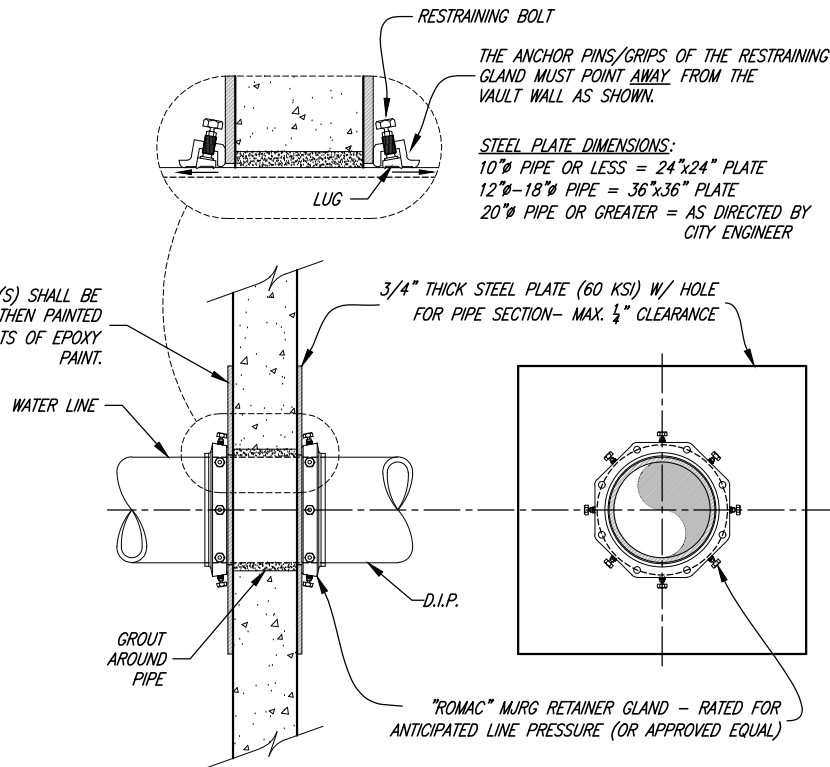
LADDER NOTES:

- D1. MAX. 12" SPACING BETWEEN BOTTOM OF LADDER AND VAULT FLOOR.
- D2. HOT DIP GALVANIZE AFTER FABRICATION.



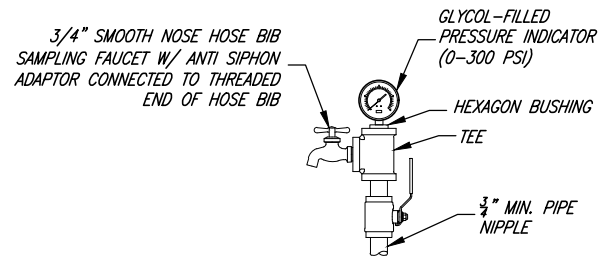
TYPICAL WATERLINE LOOP

- ① TRANSITION COUPLING; "ROMAC" ALPHA, "ROMAC" MACRO, OR APPROVED EQUAL
- ② MJ 45° BEND W/RETAINER GLANDS
- ③ CONSTRUCT THRUST BLOCKS AT EACH 45° BEND W/(3) #6 REBAR SECURING BLOCK TO FITTING (EPOXY COATING)
- ④ MINIMUM OF 12" COVER BETWEEN THE WATERLINE AND CONFLICTING UTILITY LINE TO BE CROSSED, EXCEPT LOOPS INVOLVING SEWER MAINS WHERE A MINIMUM OF 18" VERTICAL COVER ABOVE THE SEWER MAIN IS REQUIRED. EXCEPTIONS MUST BE APPROVED BY THE UTAH DIVISION OF DRINKING WATER (DDW.)
- ⑤ AN AIR/VACUUM RELIEF VALVE MAY BE REQUIRED ON A CASE BY CASE BASIS AS DIRECTED BY THE CITY WATER SYSTEM SUPERINTENDENT.

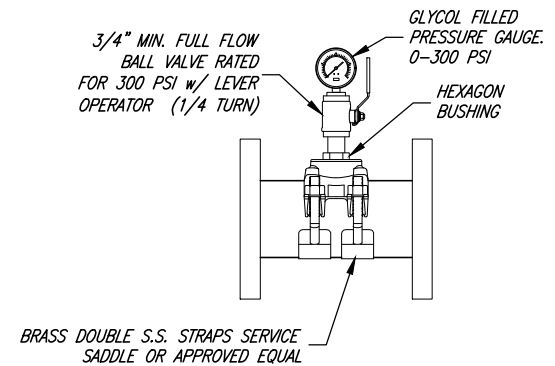


WALL PENETRATION DETAIL

FOR PRECAST VAULT (TYP)



(WITH SAMPLING FAUCET DETAIL)



PRESSURE GAUGE ASSEMBLY

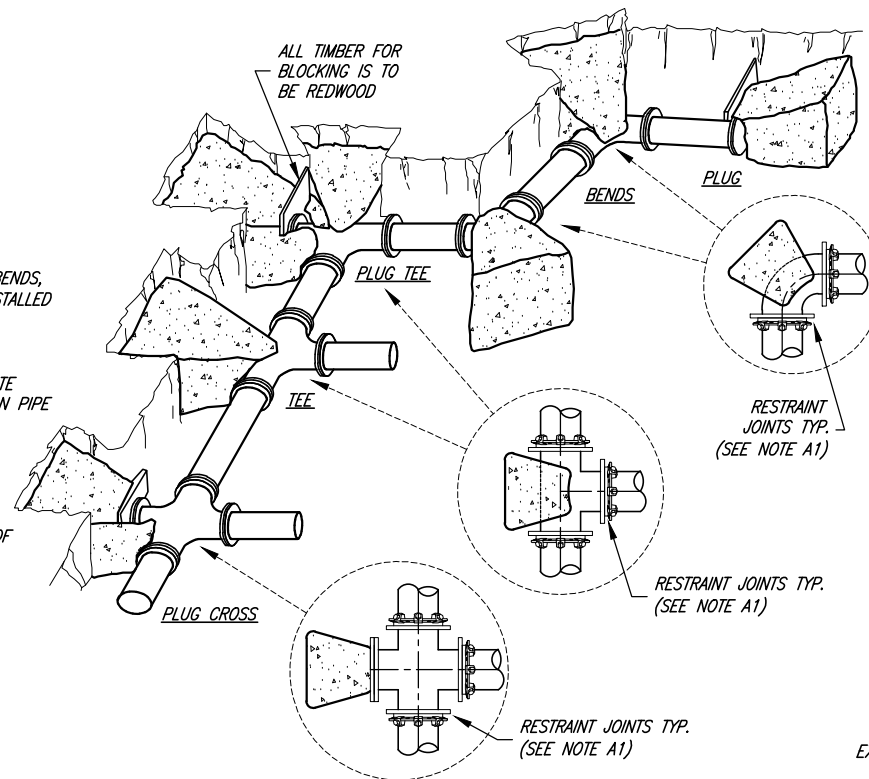
N.T.S.

PIPE RESTRAINT

- A1. FOR NOMINAL PIPE DIAMETERS 8" AND GREATER, ALL BENDS, CROSSES, TEES, REDUCERS, AND VALVES SHALL BE INSTALLED WITH RESTRAINING JOINTS ("MEGA-LUG", "ALPHA" OR APPROVED EQUAL).
- A2. DESIGN SHALL ALSO BE REQUIRED TO ENSURE ADEQUATE RESTRAINT FOR PIPING JOINTS NEAR FITTINGS BASED ON PIPE DIAMETER AND PIPE PRESSURE.

THRUST BLOCKING NOTES:

- B1. CONCRETE SHALL NOT BE PLACED WITHIN 1-1/2" OF JOINTS AND BOLTS. COVER ALL METAL CONTACT AREAS WITH A POLY WRAP PRIOR TO CONCRETE PLACEMENT.
- B2. IN THE ABSENCE OF A SOILS REPORT, ALL THRUST BLOCKS SHALL BE SIZED ON THE BASIS OF A MAXIMUM LATERAL BEARING VALUE FOR 2000 P.S.F. AND A THRUST RESULTING FROM 200% OF THE WATER LINE STATIC LINE TEST.
- B3. THRUST BLOCKS ARE REQUIRED AT ALL BENDS OF 22-1/2" OR MORE. 11-1/4" BENDS SHALL HAVE RETAINER GLANDS.
- B4. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS.



TYPICAL RETAINER GLANDS & THRUST BLOCKING

THRUST PER PSI OF WATER PRESSURE AT VARIOUS FITTINGS				
PIPE SIZE (IN.)	DEAD END OR TEE (LB.)	90° ELBOW (LB.)	45° ELBOW (LB.)	22-1/2° ELBOW (LB.)
4	19	27	15	7
6	39	55	30	15
8	67	94	51	26
10	109	154	84	43
12	155	218	119	61
14	210	296	161	82
16	272	383	209	106
18	351	494	269	137
20	434	611	333	169
24	623	878	487	244
30	947	1,332	722	377
36	1,356	1,905	1,032	542

NOTES:

- C1. IN USING THE ABOVE TABLE, USE THE MAXIMUM INTERNAL PRESSURE ANTICIPATED (I.E. HYDROSTATIC TEST PRESSURE, POSSIBLE SURGE PRESSURE DUE TO PUMP SHUT OFF, ETC.).
- C2. SEE SOILS REPORT FOR BEARING STRENGTH OF SOIL. IN THE ABSENCE OF A SOILS REPORT, AN AVERAGE SOIL (SPADABLE MEDIUM CLAY) CAN BE ASSUMED TO HAVE A BEARING STRENGTH OF 2000 P.S.F.

EXAMPLE:

8-INCH 90° ELBOW, PRESSURE 200 LB./SQ. IN.
FROM TABLE: THRUST = 94 X 200 = 18,800 LB.
ASSUME BEARING STRENGTH = 2,000 LB./SQ. FT.

$$\frac{18,800}{2,000} = 9.4 \text{ SQ. FT. AREA OF BEARING REQUIRED FOR THRUST BLOCK}$$



PROJECT ENGINEER
11/28/2023
DATE

REV.	DATE	APPR.

SCALE:
N. T.S.

DESIGNED BKJ
DRAWN BEB
CHECKED BKJ



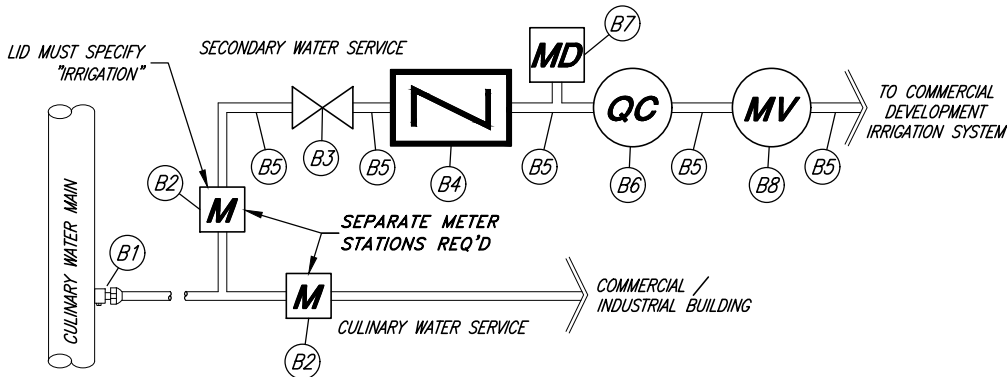
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PUBLIC WORKS - CULINARY WATER SYSTEM STANDARDS
THRUST BLOCK, WATERLINE LOOP, AND MISC. VAULT DETAILS

SHEET:
CW6
OF 34 SHEETS
0

COMMERCIAL DEV. POINT OF CONNECTION	
NO.	DESCRIPTION
B1	WATER SERVICE CONNECTION
B2	CITY STANDARD CULINARY WATER SERVICE METER (SEE SHEET CW1 AND/OR CW4)
B3	GATE VALVE & VALVE BOX
B4	BACKFLOW ASSEMBLY (REDUCED PRESSURE ZONE ASSEMBLY)
B5	WATER SERVICE PIPE
B6	QUICK COUPLER/FOR BLOW OUT
B7	MANUAL DRAIN VALVE
B8	MASTER VALVE

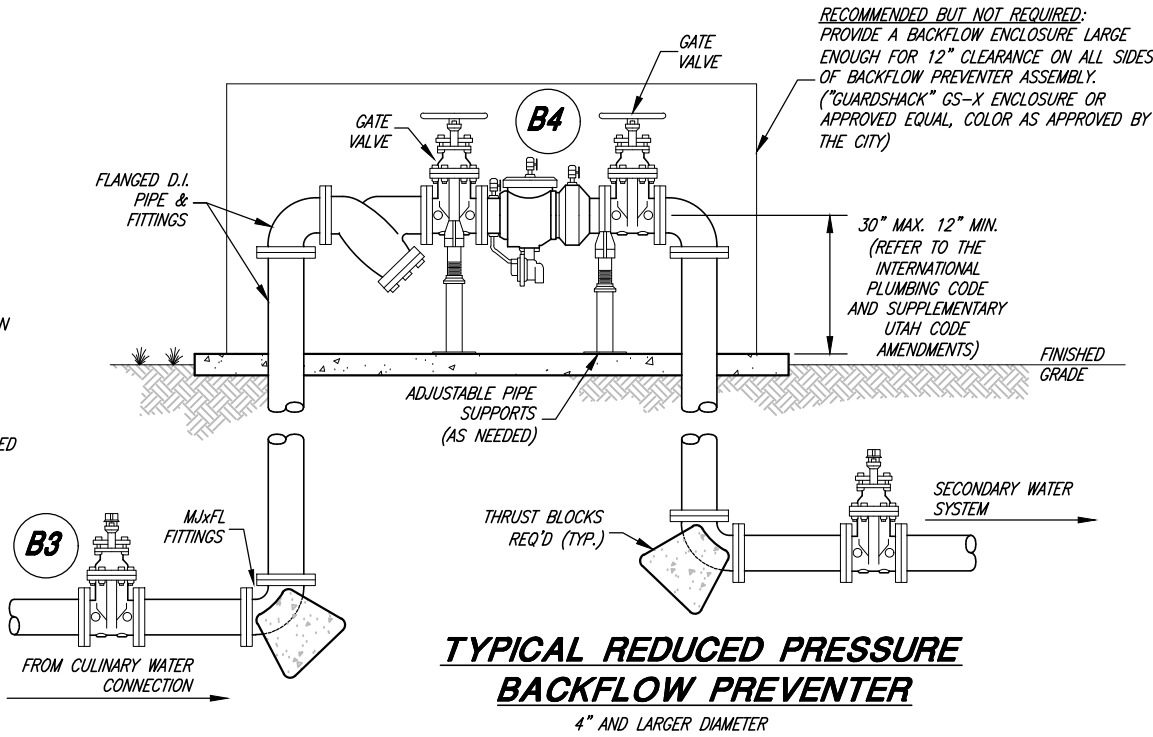


**TYPICAL COMMERCIAL / INDUSTRIAL DEVELOPMENT
POINT OF CONNECTION SCHEMATIC DIAGRAM**

REQUIRES PRE-APPROVAL BY THE PUBLIC WORKS DEPARTMENT AND THE CITY ENGINEER
PRIOR TO CONSTRUCTION (CONNECTION SHALL BE DETERMINED ON A CASE BY CASE BASIS)

GENERAL NOTES:

- DESIGN, CONSTRUCTION, AND INSTALLATION SHALL BE DONE ACCORDING TO AND COMPLY WITH ALL CURRENT ADOPTED BUILDING AND PLUMBING CODES, AND TO MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.
- ALL TESTING, MAINTENANCE, AND/OR REPAIR SHALL BE PERFORMED BY A STATE CERTIFIED BACKFLOW ASSEMBLY TECHNICIAN.
- THE ASSEMBLY MUST BE THOROUGHLY DRAINED AND WINTERIZED EACH WINTER.
- THE RP ASSEMBLY SHALL BE PROTECTED FROM FREEZING AND VANDALISM WHERE APPLICABLE.
- ABOVE GROUND FITTINGS TO BE EPOXY PAINTED BLUE ON THE CULINARY SIDE AND PURPLE ON THE SECONDARY SIDE.
- PROVIDE BOLLARDS OR OTHER PROTECTION IF AND AS DIRECTED BY THE CITY.
- RP ASSEMBLY DESIGN AND CONSTRUCTION DETAILS/DRAWINGS TO BE SUBMITTED TO THE CITY ENGINEER AND THE CITY WATER DIVISION FOR APPROVAL PRIOR TO INSTALLATION.
- LOCATION OF BACKFLOW ASSEMBLY SHALL BE APPROVED BY THE CITY WATER DIVISION PRIOR TO INSTALLATION.
- ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE TESTED WITHIN 10 DAYS OF INITIAL USE BY A LICENSED BACKFLOW ASSEMBLY TESTER.
- ALL BACKFLOW PREVENTION ASSEMBLIES ARE TO BE TESTED ANNUALLY BY A CERTIFIED TESTER AND REPAIRS OR MAINTENANCE COMPLETED AS NEEDED. ANNUALLY SUBMIT TEST RESULTS TO THE CITY WATER DIVISION.



**TYPICAL REDUCED PRESSURE
BACKFLOW PREVENTER**

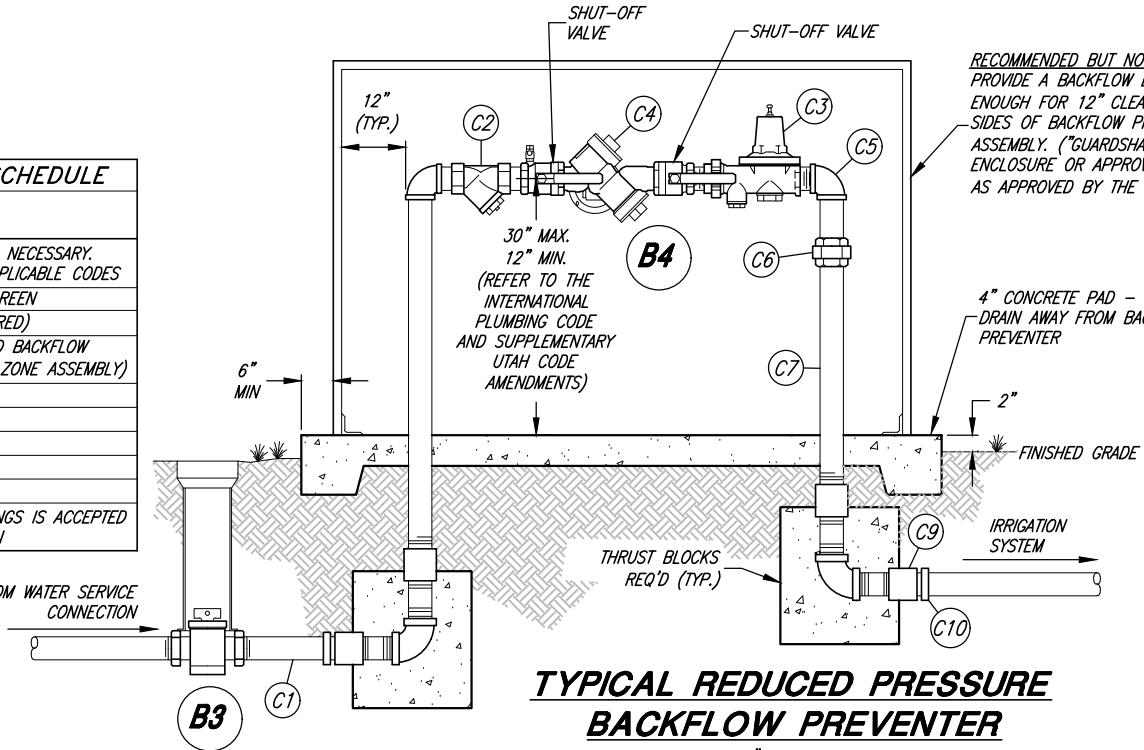
4" AND LARGER DIAMETER

REDUCED PRESSURE ASSEMBLY (RP) NOTES:

- AN RP ASSEMBLY SHALL BE INSTALLED WHEN A SECONDARY SERVICE IS CONNECTED TO THE CULINARY WATER SYSTEM.
- THE RP ASSEMBLY SHALL BE INSTALLED IN A HORIZONTAL POSITION ONLY.
- RP ASSEMBLIES SHALL NOT BE INSTALLED IN A PIT.
- THE BODY OF THE RP ASSEMBLY SHALL BE A MINIMUM OF 12 INCHES FROM ANY WALLS, CEILINGS, OR ENCUMBRANCES AND SHALL BE READILY ACCESSIBLE FOR TESTING, REPAIR AND/OR MAINTENANCE.
- THE BOTTOM OF THE RP ASSEMBLY SHALL BE A MINIMUM OF 12 INCHES ABOVE THE GROUND FLOOR.
- RP VALVE ASSEMBLY AND PIPES TO MATCH SECONDARY LATERAL/MAIN SIZE.
- THE BACKFLOW PREVENTER SHALL BE BRONZE FOR 6-INCH AND SMALLER VALVES, AND EPOXY COATED DUCTILE IRON FOR 8-INCH AND LARGER VALVES.
- BACKFLOW PREVENTION DEVICES SHALL BE SELECTED FROM A LIST OF APPROVED DEVICES SET FORTH BY THE UTAH DIVISION OF DRINKING WATER. REDUCED PRESSURE ASSEMBLIES (RP) AND CITY ENGINEER APPROVED DOUBLE CHECK VALVE ASSEMBLIES (DCA) WILL BE THE ONLY ACCEPTED STYLES OF BACKFLOW PREVENTION DEVICES.

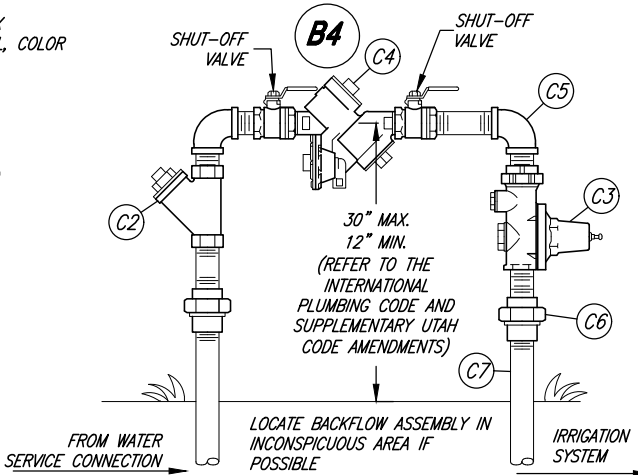
TYPICAL PIPE & FITTING SCHEDULE	
NO.	DESCRIPTION
C1	TO POINT OF CONNECTION - ADAPT AS NECESSARY. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES
C2	BRASS WYE STRAINER W/ 60 MESH SCREEN
C3	PRESSURE REDUCING VALVE (AS REQUIRED)
C4	DIVISION OF DRINKING WATER APPROVED BACKFLOW PREVENTER UNIT (REDUCED PRESSURE ZONE ASSEMBLY)
C5	BRASS 90 DEGREE ELBOW (TYP.)
C6	BRASS UNION (TYP.)
C7	BRASS PIPE (TYP.)
C9	BRASS COUPLING
C10	PIPE ADAPTER AND MAINLINE PIPE

THE USE OF GALVANIZED STEEL PIPE & FITTINGS IS ACCEPTED WHEN APPROVED BY THE CITY WATER DIVISION



**TYPICAL REDUCED PRESSURE
BACKFLOW PREVENTER**

LESS THAN 3" DIAMETER



**ALTERNATE REDUCED PRESSURE
BACKFLOW PREVENTER**

OPTIONAL ALTERNATE FOR COMMERCIAL DEVELOPMENTS
LESS THAN ONE ACRE



PROJECT ENGINEER
11/28/2023
DATE

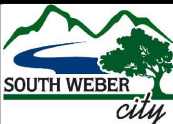
REV.	DATE	APPR.

SCALE:
N. T.S.

DESIGNED BKJ
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CHECKED BKJ



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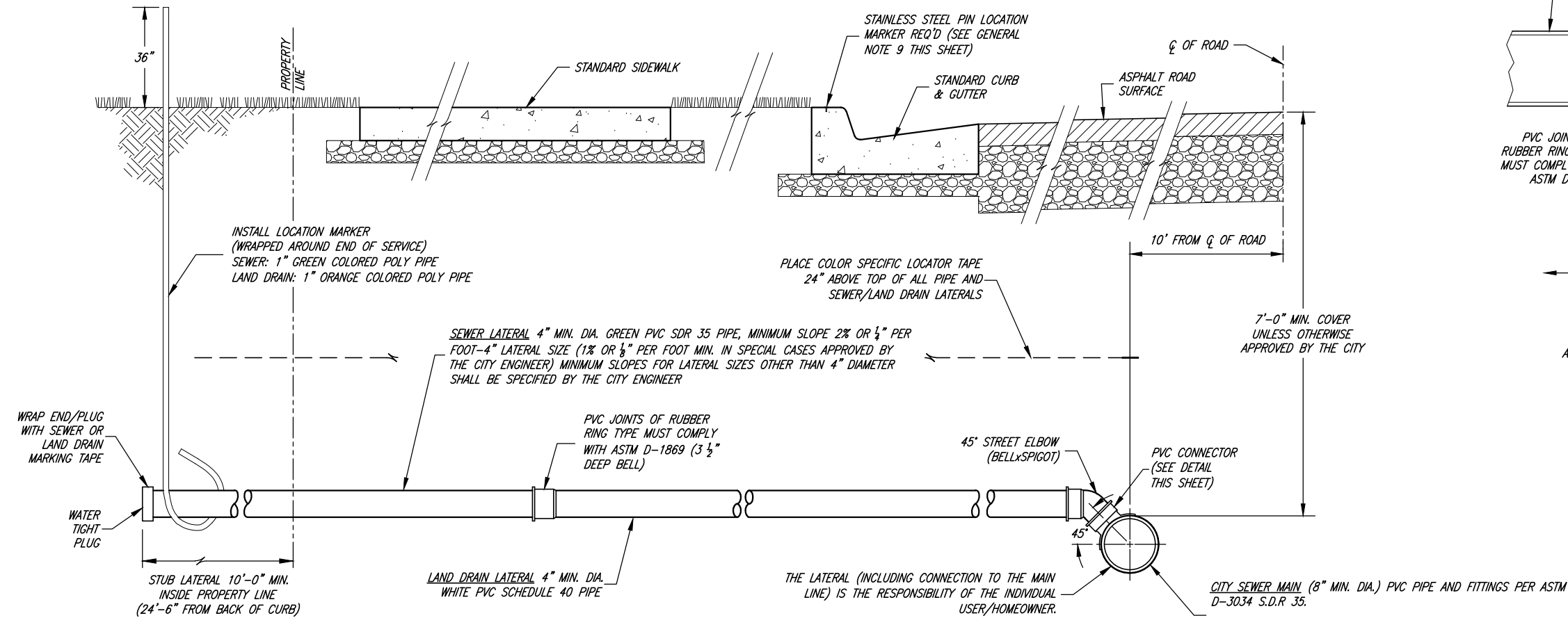
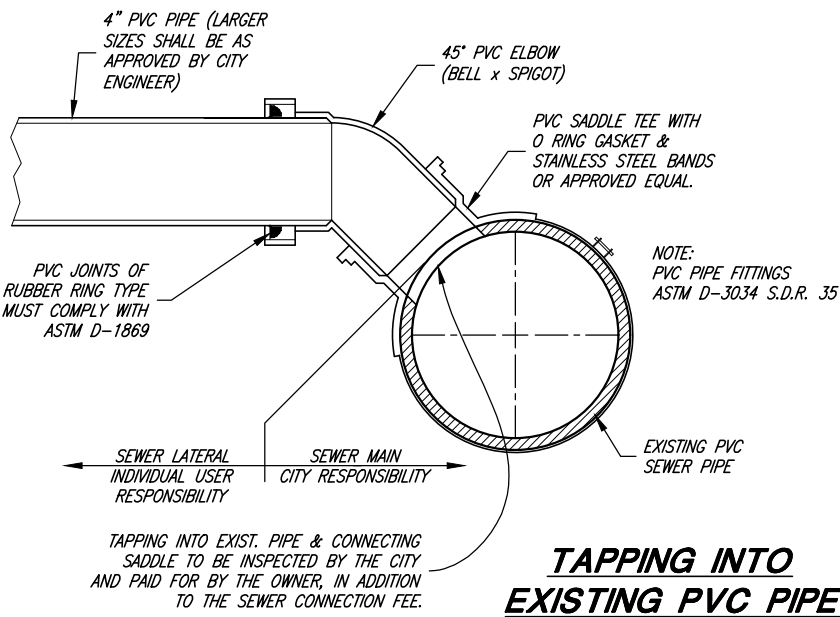
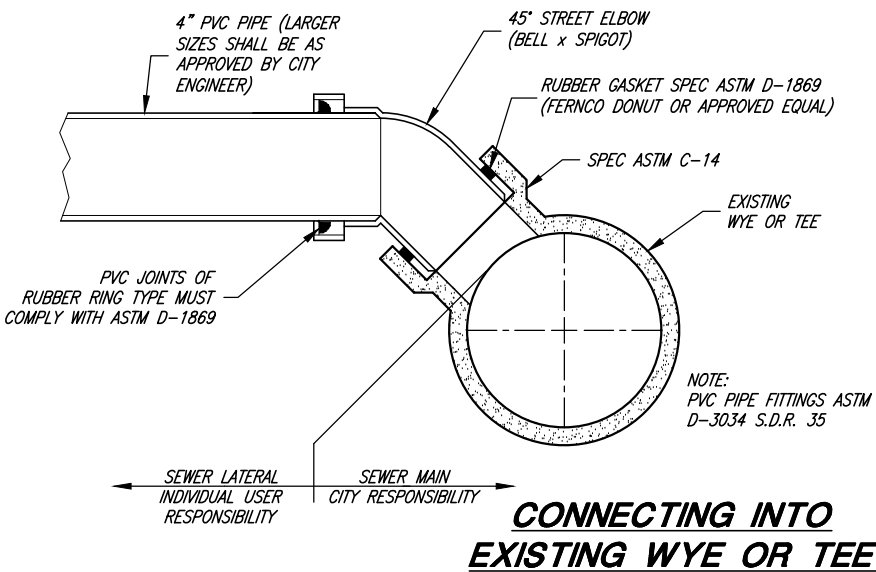


SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - CULINARY WATER SYSTEM STANDARDS
REDUCED PRESSURE (RP) BACKFLOW PREVENTION ASSEMBLY

SHEET:
CW7
OF 34 SHEETS
0

GENERAL NOTES:

1. ALL SANITARY SEWER LATERAL CONNECTIONS ON SEWER MAINS IN NEW SUBDIVISIONS SHALL BE MADE WITH IN LINE PRE-FORMED WYES OR TEES UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. FLOWLINE ELEVATION OF LATERALS SHALL EQUAL THE INSIDE TOP OF PIPE ON MAINLINE AT THE CONNECTING POINT (THE LATERAL TAP SHALL BE IN THE TOP QUARTER OF THE SEWER MAIN LINE PREFERABLY IN THE 10:00 OR 2:00 POSITION).
3. SANITARY SEWER SERVICE LATERAL CONNECTIONS SHALL NOT BE ALLOWED IN SEWER MANHOLES.
4. SANITARY SEWER MAINS AND LATERALS SHALL BE "GREEN" IN COLOR. LAND DRAIN MAIN LINES SHALL BE "GREEN" IN COLOR AND LAND DRAIN LATERAL LINES SHALL BE "WHITE" IN COLOR. IRRIGATION PIPES SHALL BE "PURPLE" IN COLOR. PREVIOUS YEARS PIPE COLORS VARY THROUGHOUT THE CITY. CONTRACTOR TO VERIFY EXISTING PIPE PRIOR TO MAKING ANY CONNECTION.
5. INSERTA TEE PRODUCT IS NOT APPROVED BY THE CITY
6. ALL CLEANOUTS SHALL BE MARKED AND FITTED WITH A METAL LID FOR LOCATION PURPOSES
7. ALL CULINARY WATER MAINS AND SERVICES MUST MAINTAIN A MINIMUM SEPARATION ABOVE ALL SEWER MAINS AND LATERALS OF 18" VERTICAL AND 10'-0" HORIZONTAL IN ACCORDANCE WITH THE STATE OF UTAH DIVISION OF DRINKING WATER (DDW) RULES SECTION R309-550-7. EXCEPTIONS MUST BE APPROVED BY DDW.
8. ALL SANITARY SEWER LINES SHALL BE INSPECTED BY MEANS OF VIDEO CAMERA WHEN CONSTRUCTED.
9. STAMPED STAINLESS STEEL PINS USED FOR LATERAL LOCATING ARE REQUIRED BY THE CITY. BLANK S.S. PINS SHALL BE PROVIDED BY THE CITY AND INSTALLED AND STAMPED BY THE CONTRACTOR DURING ALL NEW CONSTRUCTION OR RESTORED WHEN REPLACING DAMAGED CURB & GUTTER DUE TO ANY CONSTRUCTION RELATED ACTIVITY. S.S. PINS SHALL BE STAMPED "S" FOR SANITARY SEWER, "W" FOR CULINARY WATER, AND "L" FOR LAND DRAIN.
10. DOWNSTREAM LAND DRAIN CONNECTION TO AN EXISTING STORM DRAIN SYSTEM IS REQUIRED.



TYPICAL SEWER / LAND DRAIN LATERALS CONNECTION



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DATE

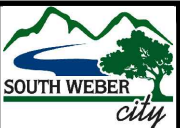
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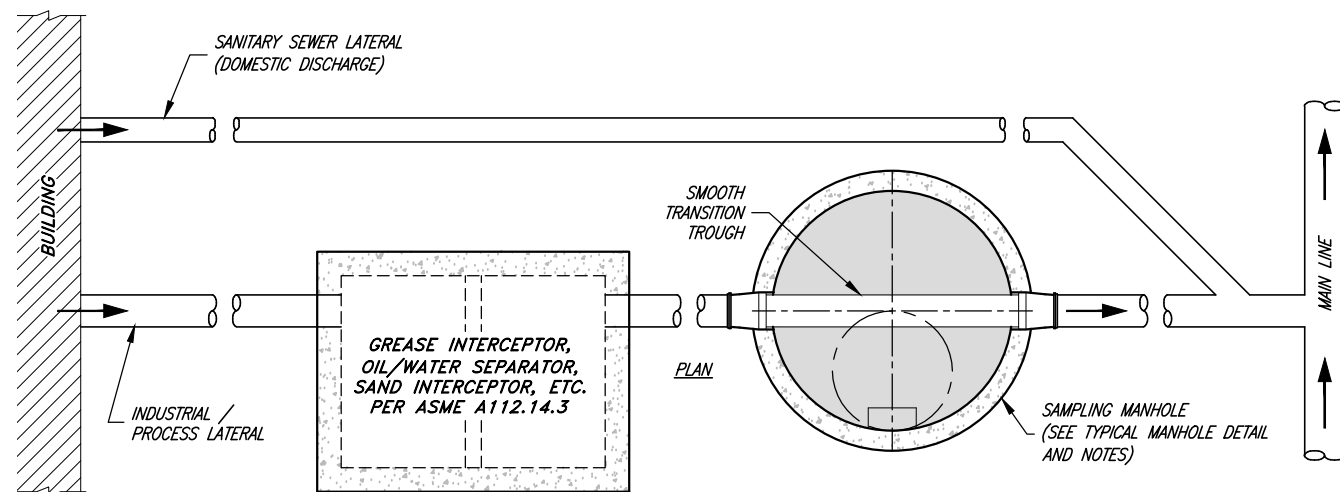


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SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - SANITARY SEWER SYSTEM STANDARDS
SEWER / LAND DRAIN LATERAL & MAIN LINE CONNECTION DETAILS

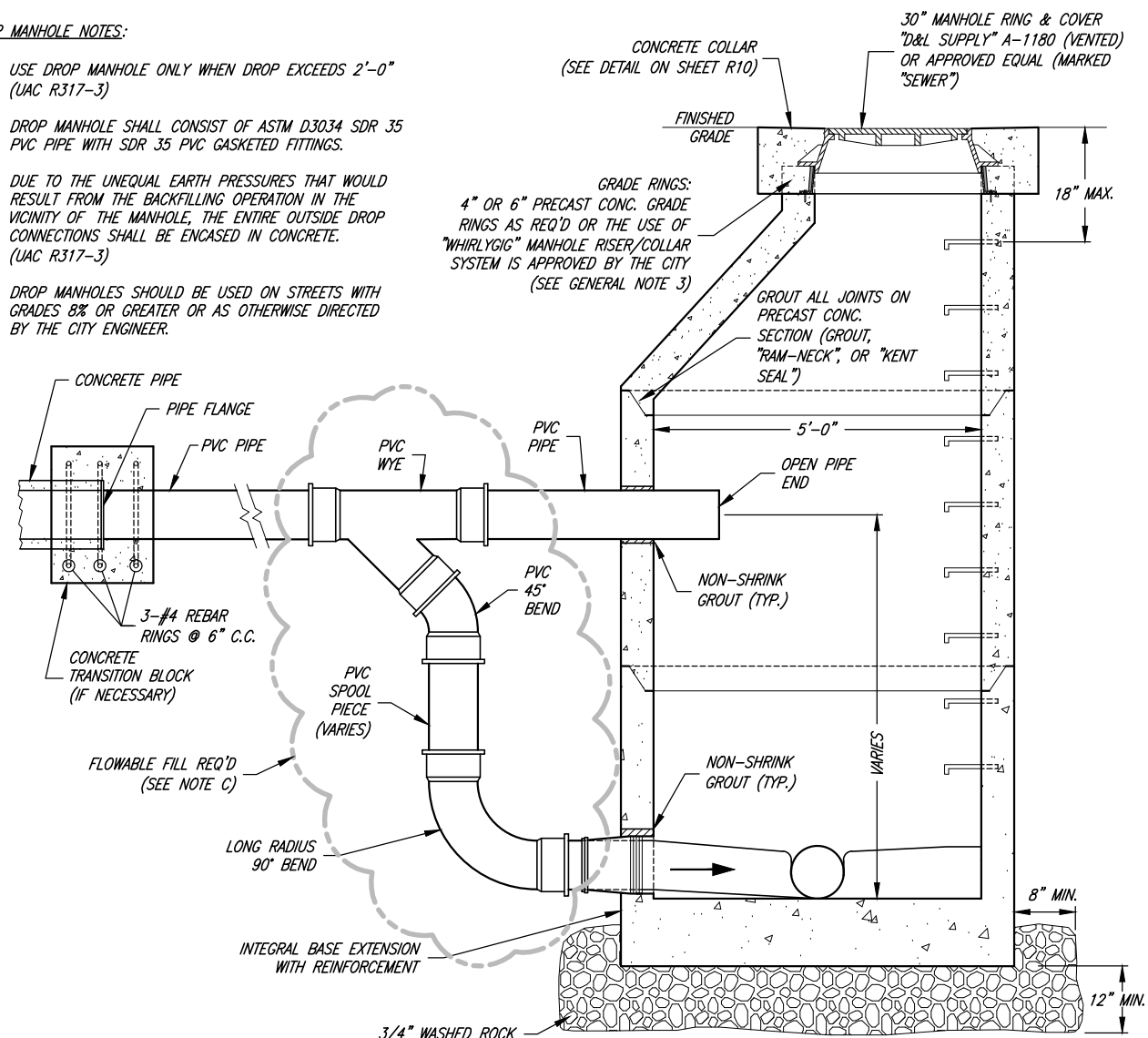
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OF 34 SHEETS
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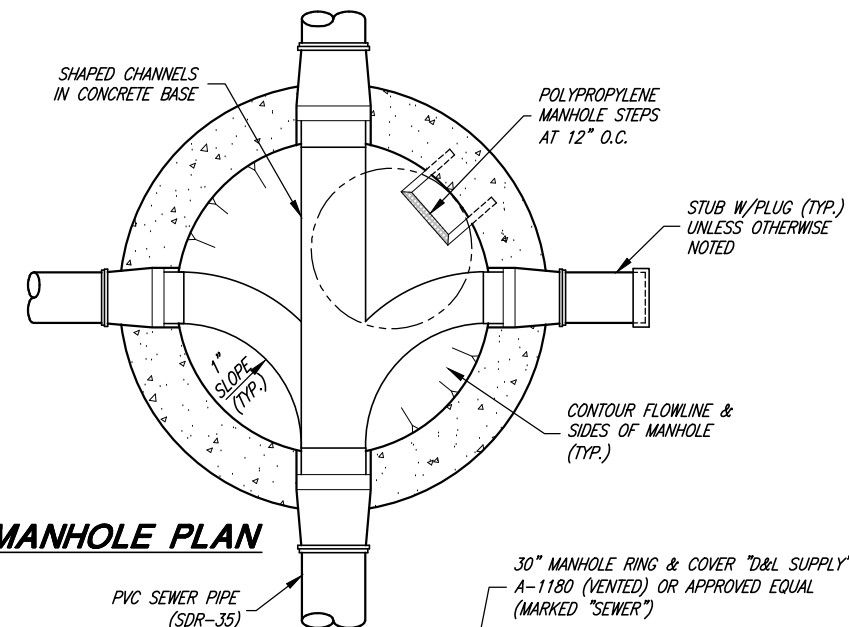
SAMPLING MANHOLE

DROP MANHOLE NOTES:

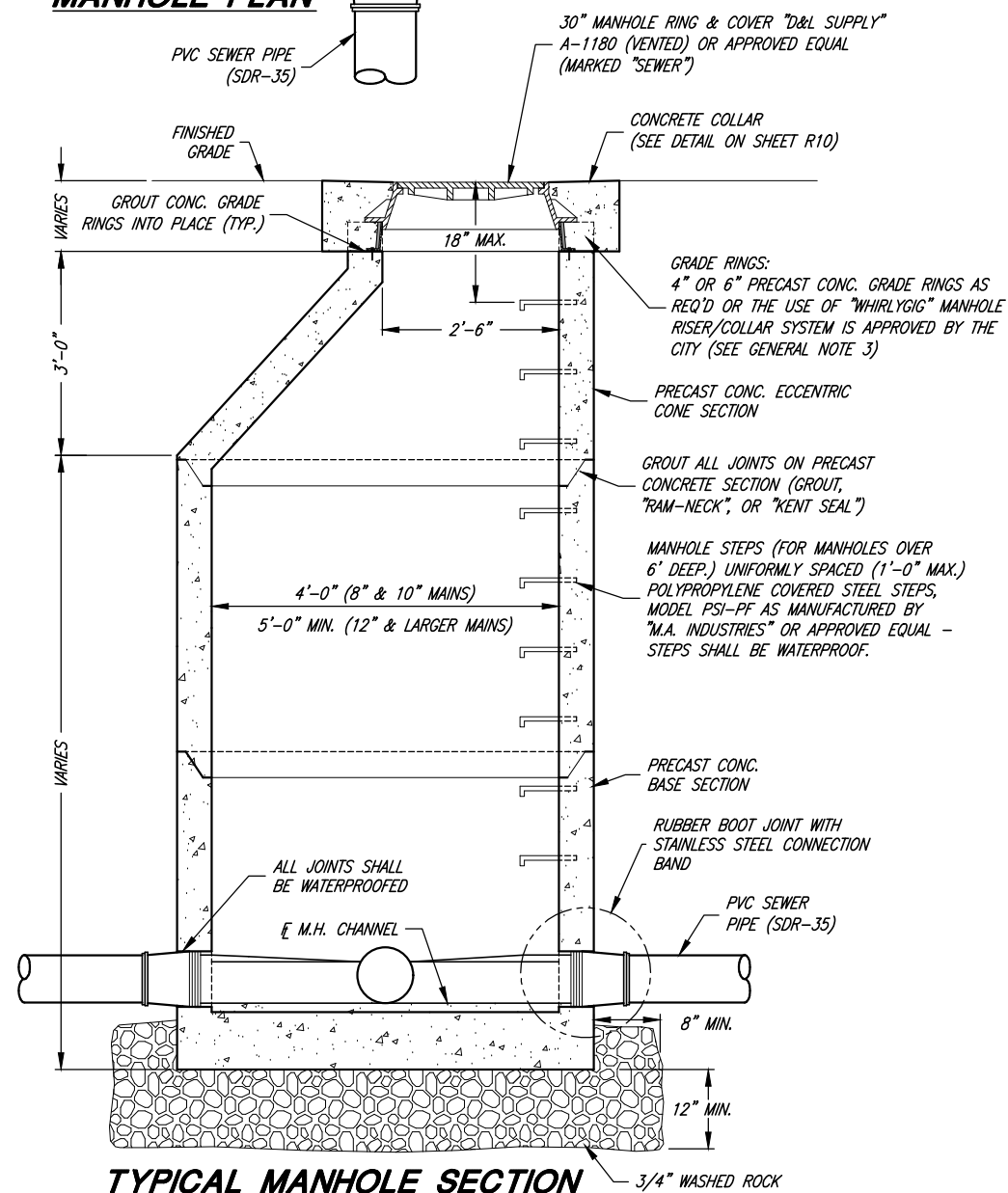
- USE DROP MANHOLE ONLY WHEN DROP EXCEEDS 2'-0" (UAC R317-3)
- DROP MANHOLE SHALL CONSIST OF ASTM D3034 SDR 35 PVC PIPE WITH SDR 35 PVC GASKETED FITTINGS.
- DUE TO THE UNEQUAL EARTH PRESSURES THAT WOULD RESULT FROM THE BACKFILLING OPERATION IN THE VICINITY OF THE MANHOLE, THE ENTIRE OUTSIDE DROP CONNECTIONS SHALL BE ENCASED IN CONCRETE. (UAC R317-3)
- DROP MANHOLES SHOULD BE USED ON STREETS WITH GRADES 8% OR GREATER OR AS OTHERWISE DIRECTED BY THE CITY ENGINEER.



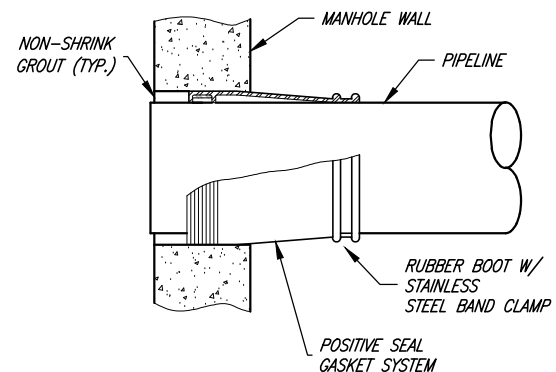
TYPICAL DROP MANHOLE SECTION



MANHOLE PLAN



TYPICAL MANHOLE SECTION



RUBBER BOOT DETAIL

GENERAL NOTES:

- SECURE INVERTS IN ALL MANHOLES DURING CONSTRUCTION SO AS TO PREVENT GRAVEL AND OTHER DEBRIS FROM COLLECTING INSIDE.
- A LARGER DIAMETER MANHOLE MAY BE REQUIRED BY THE CITY ENGINEER AFTER EVALUATION OF THE NUMBER, SIZE, AND ANGLE OF THE PIPES THAT CONNECT TO THE MANHOLE.
- NO MORE THAN 12" OF GRADE RINGS TO BE ALLOWED ON ANY MANHOLE.
- ALL TERMINATING SEWER MAINS SHALL END WITH A CITY STANDARD MANHOLE.
- SERVICE LATERAL CONNECTIONS SHALL NOT BE ALLOWED IN SEWER MANHOLES.
- ALL SANITARY SEWER LINES SHALL BE INSPECTED BY MEANS OF VIDEO CAMERA AND AIR TESTED WHEN CONSTRUCTED. SEE APWA 33 08 00 AND CITY MODIFICATIONS FOR MORE INFORMATION.
- WHERE THE DIFFERENCE IN ELEVATION BETWEEN THE INCOMING SEWER AND MANHOLE INVERT IS LESS THAN 24 INCHES, THE INVERT SHOULD BE FILLETED.
- FLAT MANHOLE RINGS & COVERS (SLAB CONSTRUCTION) ARE NOT ALLOWED ON ANY MANHOLE CONE SECTION.
- ALL SEWER MANHOLE COVERS TO BE VENTED UNLESS OTHERWISE NOTED.



BRANDON K. JONES
No. 5148758
PROJECT ENGINEER
11/28/2023
DATE

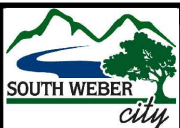
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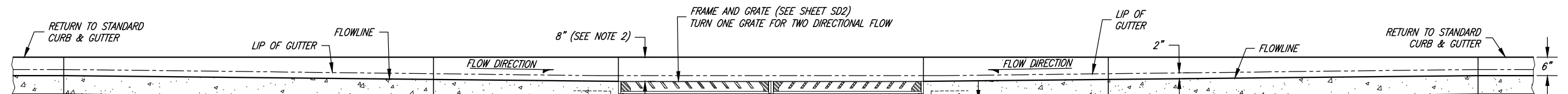
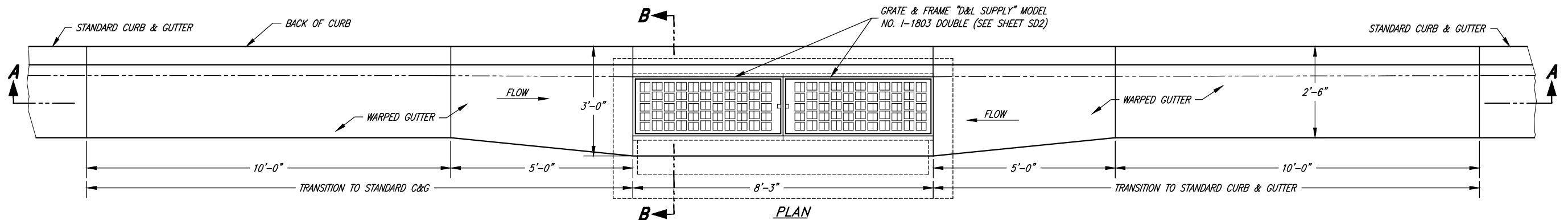


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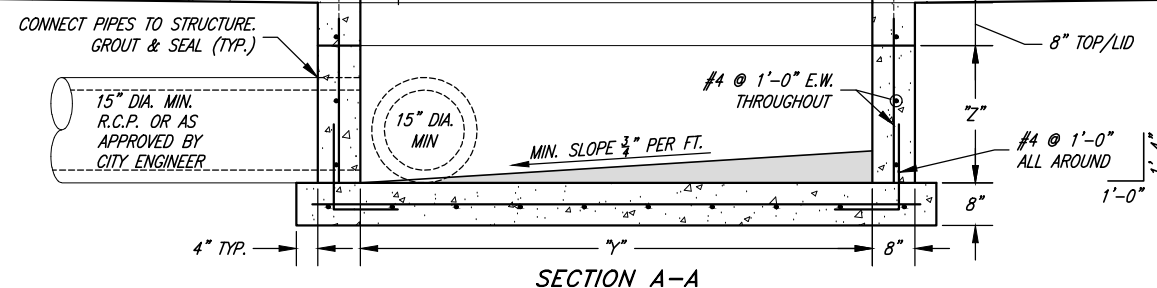


SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - SANITARY SEWER SYSTEM STANDARDS
SANITARY SEWER MANHOLE DETAILS

SHEET:
SS2
OF 34 SHEETS
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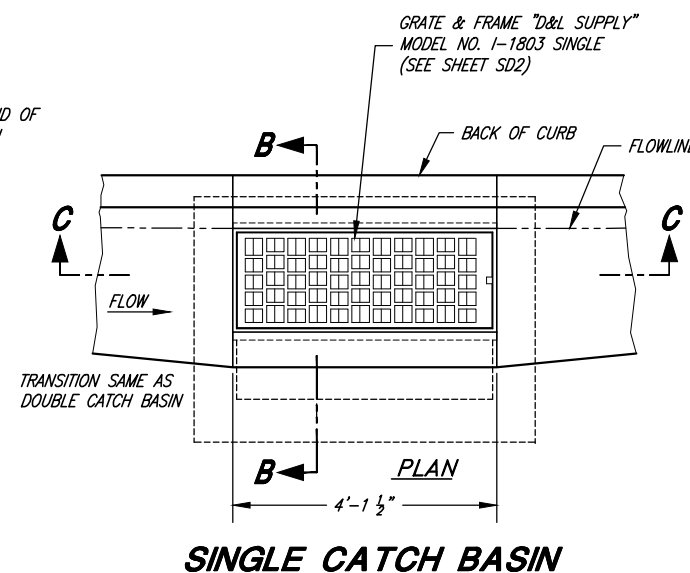
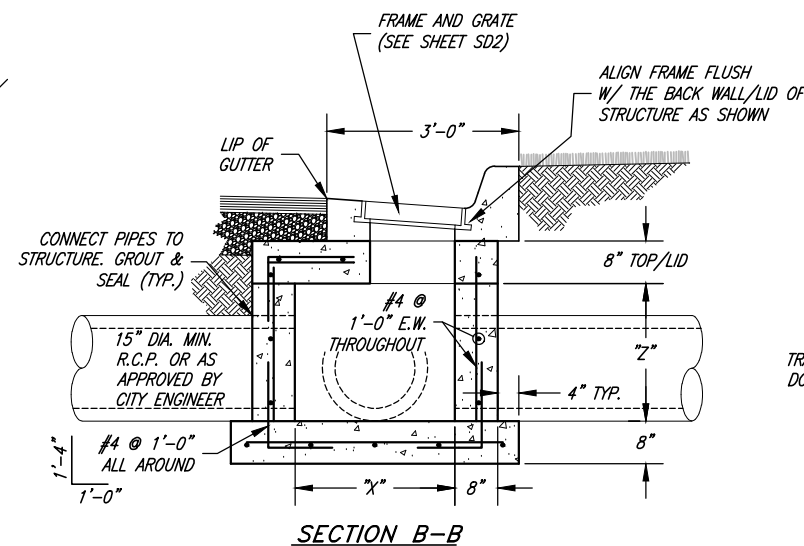
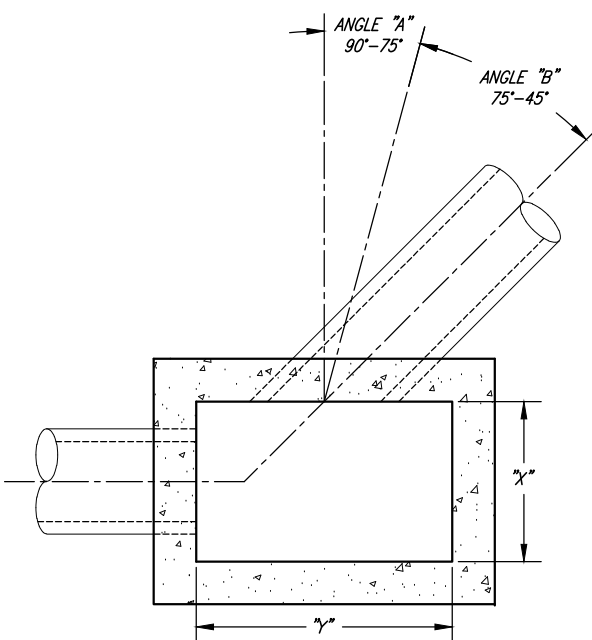
STANDARD CATCH BASIN DIMENSION TABLE					
PIPE SIZE (IN.)	"X"	SINGLE CATCH BASIN		DOUBLE	"Z" MIN.
		"Y" (ANGLE A)	"Y" (ANGLE B)	"Y"	
15	2'-6"	4'-0"	4'-0"	8'-0"	2'-0"
18	2'-6"	4'-0"	4'-0"	8'-0"	2'-6"
21	4'-0"	4'-0"	4'-0"	8'-0"	3'-0"
24	4'-0"	4'-0"	5'-0"	8'-0"	3'-0"
30	4'-0"	4'-0"	6'-0"	8'-0"	3'-6"
36	4'-0"	5'-0"	6'-0"	8'-0"	4'-0"
42	6'-0"	6'-0"	7'-0"	8'-0"	5'-0"
48	6'-0"	6'-0"	8'-0"	8'-0"	5'-6"



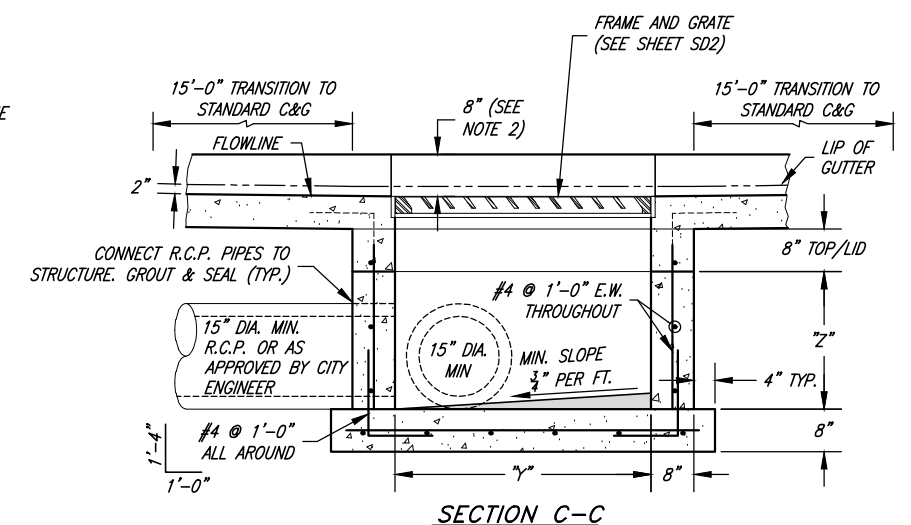
DOUBLE CATCH BASIN

GENERAL NOTES:

- ALL CATCH BASIN BOX SIZES REFLECT DIMENSIONS FOR THE MINIMUM 15" PIPE SIZE. BOX DIMENSIONS MUST INCREASE PROPORTIONALLY TO ACCOMMODATE LARGER PIPE SIZES.
- DEPTH MAY VARY FROM 6" TO 10" AS DIRECTED BY THE CITY ENGINEER
- CAST-IN-PLACE CONCRETE CATCH BASINS CAN BE REPLACED WITH PRECAST CONCRETE CATCH BASINS WITH HL-93 DECK LOADING AND COMPARABLE SIZE.
- ALL BOXES SHALL BE FORMED ON THE INSIDE AND OUTSIDE OF THE BOX AND INSPECTED BY THE CITY PRIOR TO THE PLACING OF CONCRETE.
- DOUBLE CATCH BASINS WILL BE REQUIRED IN LOCATIONS SPECIFIED BY THE CITY ENGINEER (TYPICALLY IN LOW SPOTS OR WHERE ADDITIONAL INLET CAPACITY IS NEEDED).
- STORM DRAIN LINES SHALL BE 15 INCH MINIMUM DIAMETER REINFORCED CONCRETE PIPE (RCP), OF APPROPRIATE CLASS.
- ALTERNATE STRUCTURE (E.G. COMBO BOXES) MAY BE USED WITH APPROVAL OF THE CITY ENGINEER. STRUCTURES SHALL FOLLOW APWA STANDARD PLANS AND BE A COMMON SIZE.



SINGLE CATCH BASIN



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11/28/2023
DATE

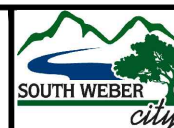
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N. T.S.

DESIGNED: BKJ
DRAWN: BEB
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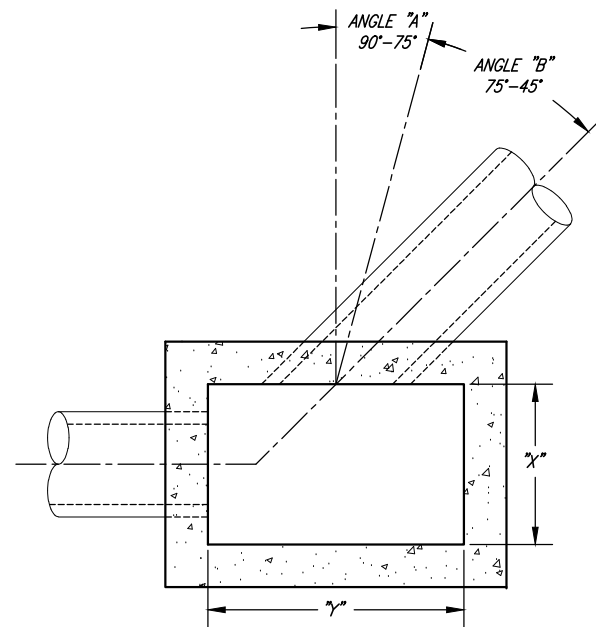


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SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - STORM DRAIN SYSTEM STANDARDS
SINGLE AND DOUBLE CATCH BASIN DETAILS

SHEET:
SD1
OF 34 SHEETS
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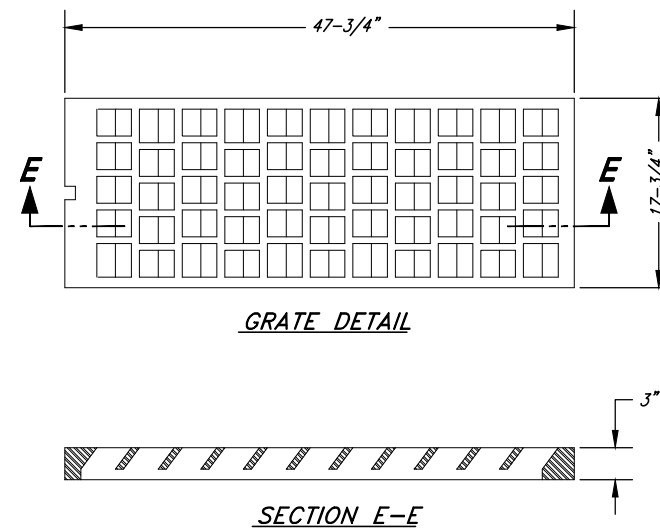
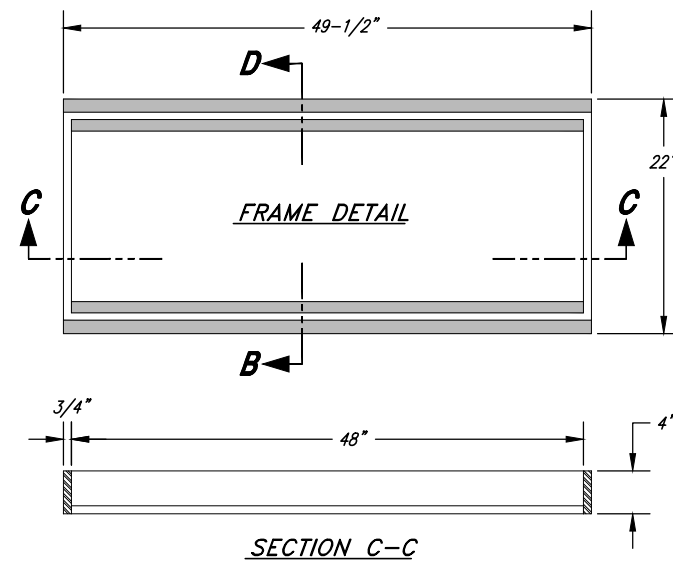
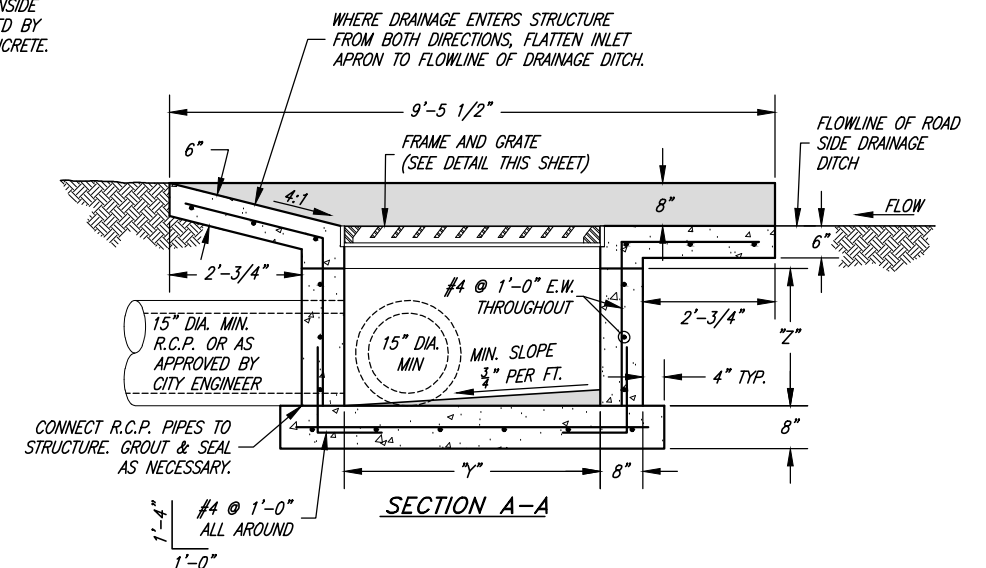
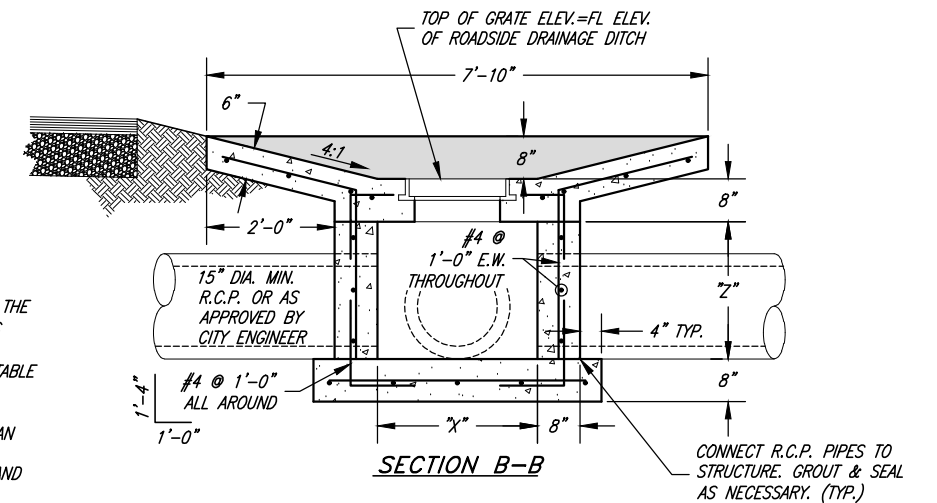
PIPE SIZE (IN.)	"X"	INLET BOX		"Z" MIN.
		"Y" (ANGLE A)	"Y" (ANGLE B)	
15	2'-6"	4'-0"	4'-0"	2'-0"
18	2'-6"	4'-0"	4'-0"	2'-6"
21	4'-0"	4'-0"	4'-0"	3'-0"
24	4'-0"	4'-0"	5'-0"	3'-0"
30	4'-0"	4'-0"	6'-0"	3'-6"
36	4'-0"	4'-0"	6'-0"	4'-0"
42	6'-0"	6'-0"	7'-0"	5'-0"
48	6'-0"	6'-0"	8'-0"	5'-6"

GENERAL NOTE:

STORM DRAIN LINES SHALL BE 15 INCH MINIMUM DIAMETER REINFORCED CONCRETE PIPE (RCP), OF APPROPRIATE CLASS.

DRAINAGE BOX NOTES:

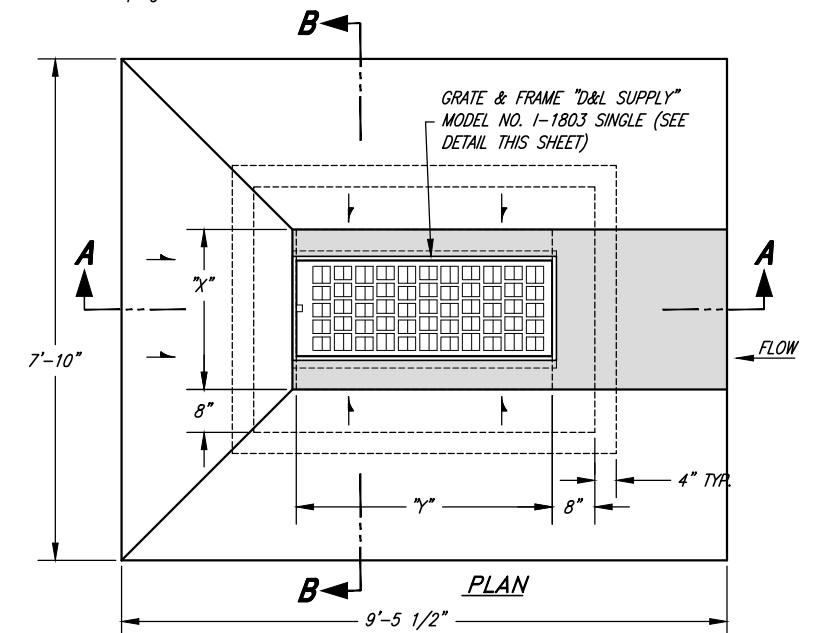
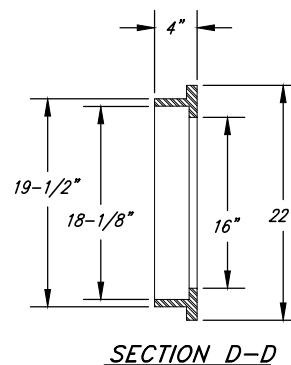
- ALL BOX SIZES REFLECT DIMENSIONS FOR THE MINIMUM 15" PIPE SIZE. BOX DIMENSIONS MUST INCREASE PROPORTIONALLY TO ACCOMMODATE LARGER PIPE SIZES. (SEE TABLE THIS SHEET)
- CAST-IN-PLACE CONCRETE STRUCTURES CAN BE REPLACED WITH PRECAST CONCRETE STRUCTURES WITH HL-93 DECK LOADING AND COMPARABLE SIZE.
- ALL BOXES SHALL BE FORMED ON THE INSIDE AND OUTSIDE OF THE BOX AND INSPECTED BY THE CITY PRIOR TO THE PLACING OF CONCRETE.



FRAME & GRATE DETAILS

FRAME AND GRATE NOTES:

- GRATE AND FRAME SHALL BE AS MANUFACTURED BY "D&L SUPPLY" I-1803
- BICYCLE SAFE GRATE REQUIRED.
- "OR EQUAL" GRATES AND FRAMES WILL BE CONSIDERED AS APPROVED BY THE CITY ENGINEER.



DRAINAGE DITCH / SWALE INLET BOX



PROJECT ENGINEER
11/28/2023
DATE

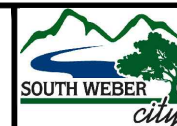
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N. T.S.

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DRAWN: BEB
CHECKED: BKJ



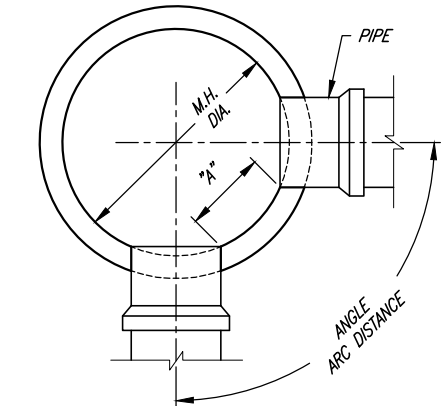
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SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - STORM DRAIN SYSTEM STANDARDS
DRAINAGE INLET BOX AND GENERAL GRATE & FRAME DETAILS

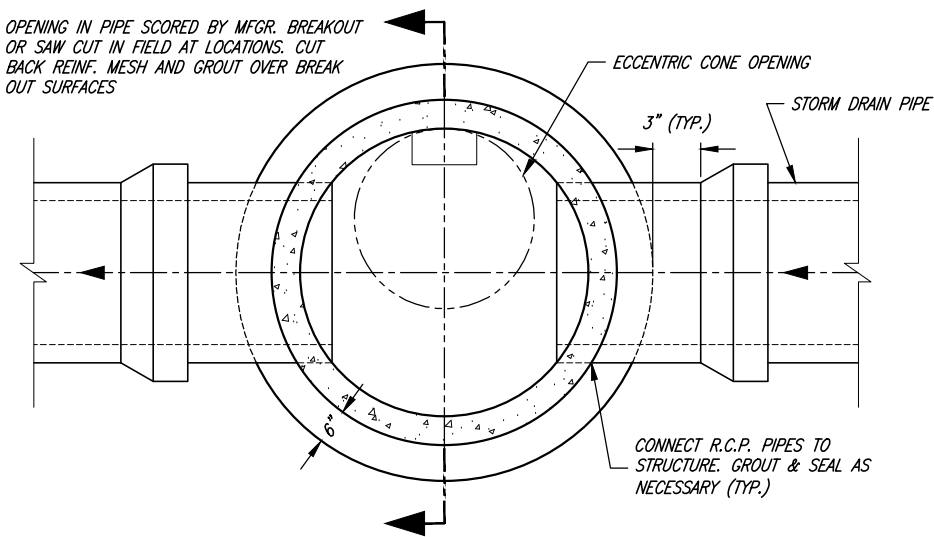
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OF 34 SHEETS
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PIPE SIZES											
M.H. SIZE	IN-LINE M.H. 180"	JUNCTION MANHOLE (ANGLE / ARC DISTANCE)									
		90°	85°	80°	75°	70°	65°	60°	55°	50°	45°
4" M.H.	15"-24"	15"-18"	15"-18"	15"	15"	--	--	--	--	--	--
5" M.H.	27"-30"	21"-24"	21"-24"	18"-21"	18"-21"	15"-18"	15"-18"	15"	--	--	--
6" M.H.	36"-48"	27"-30"	27"-30"	24"-27"	24"	21"-24"	21"	18"	15"-18"	15"	--
7" M.H.	54"	36"	36"	30"	27"-30"	27"	24"	21"-24"	21"	18"	15"
8" M.H.	60"	42"	42"	36"	36"	30"	27"-30"	27"	24"	21"	18"

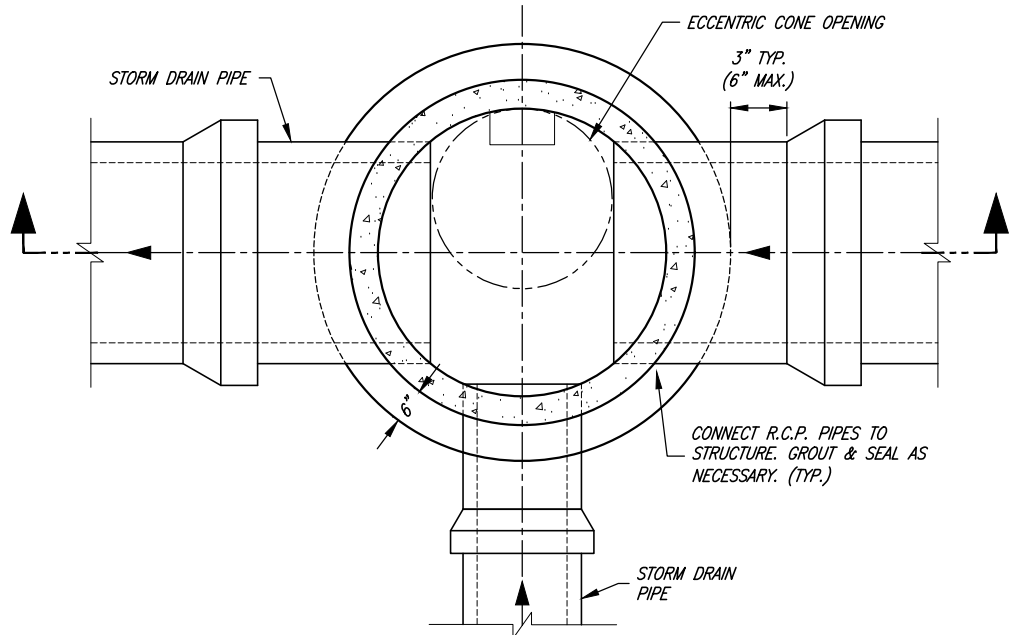


- MANHOLE SIZING NOTES:**
- SUGGESTED "A" DISTANCE IS 6" OR GREATER FOR 48", 60" AND 72" DIAMETER MANHOLES
 - SUGGESTED "A" DISTANCE IS 8" OR GREATER FOR 84" AND 96" DIAMETER MANHOLES

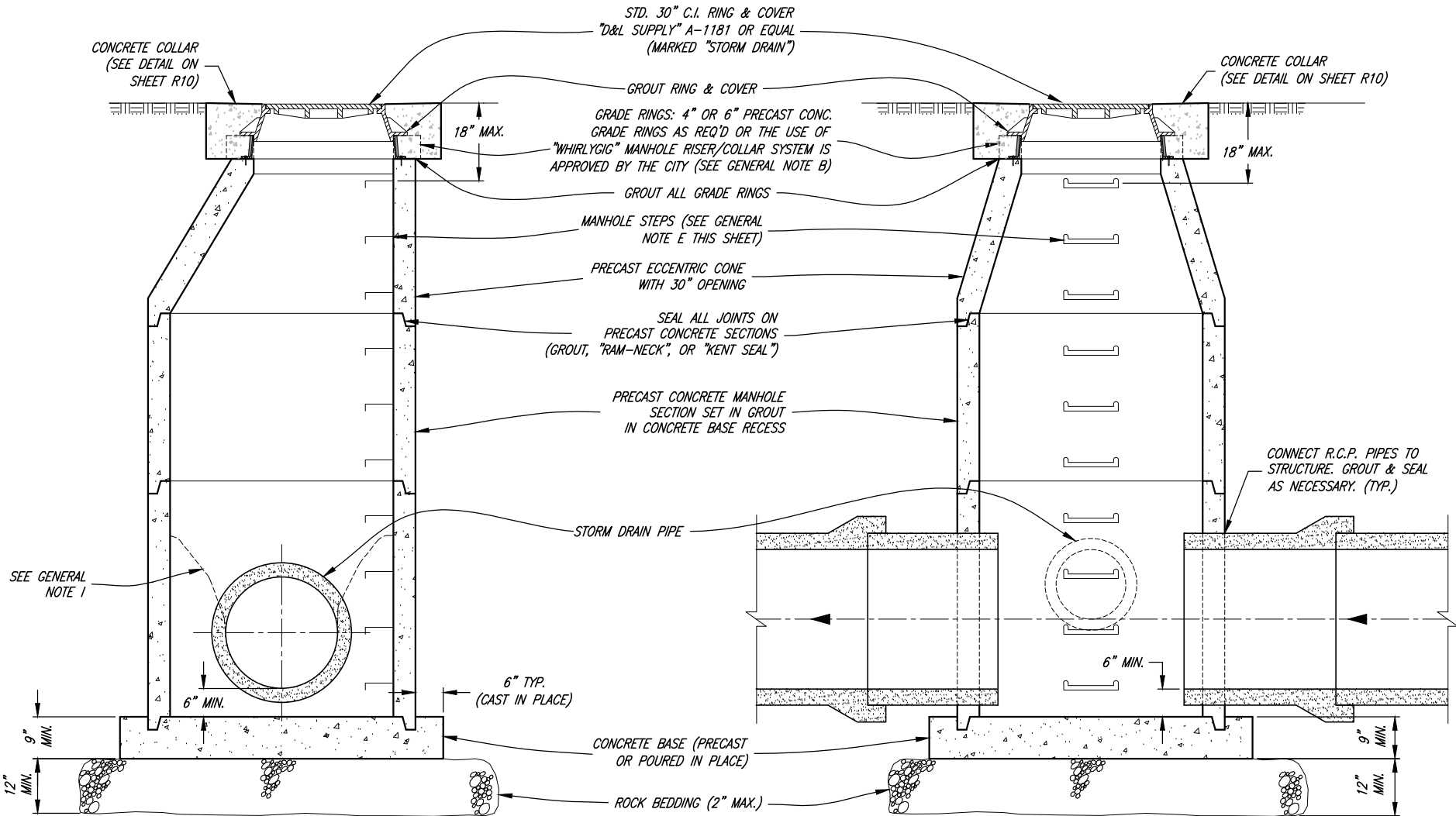
- GENERAL NOTES:**
- A LARGER DIAMETER MANHOLE MAY BE REQUIRED BY THE CITY ENGINEER AFTER EVALUATION OF THE NUMBER, SIZE, AND ANGLE OF THE PIPES THAT CONNECT TO THE MANHOLE.
 - NO MORE THAN 12" OF GRADE RINGS TO BE ALLOWED ON ANY MANHOLE
 - PLYWOOD COVERS SHALL BE USED AT MANHOLE FLOOR TO COVER FLOWLINE DURING CONSTRUCTION AND MAINTENANCE ACTIVITIES.
 - ALL INTERIOR JOINTS SHALL BE SMOOTH AND EVENLY GROUTED WITH NON-SHRINK GROUT MIX.
 - MANHOLE STEPS UNIFORMLY SPACED (1'-0" MAX) ON ALL MANHOLES. POLYPROPYLENE COVERED STEEL STEPS, MODEL PSI-PF AS MANUFACTURED BY "M.A. INDUSTRIES" OR APPROVED EQUAL - INSTALLATION OF STEPS SHALL BE WATERPROOF.
 - STORM DRAIN LINES SHALL BE 15 INCH MINIMUM DIAMETER REINFORCED CONCRETE PIPE (RCP), OF APPROPRIATE CLASS.
 - FLAT MANHOLE RINGS & COVERS (SLAB CONSTRUCTION) ARE NOT ALLOWED ON ANY MANHOLE CONE SECTION.
 - THE USE OF STORM DRAIN UTILITY VAULTS (BOXES) WITH STD. 30" C.I. RING & COVER ("D&L SUPPLY" A-1181 MARKED "STORM DRAIN") AND A CONCRETE COLLAR IS ACCEPTED WHEN APPROVED BY THE CITY ENGINEER.
 - CONTOUR THE FLOWLINE & SIDES OF ANY LINE OR JUNCTION MANHOLES WHEN DIRECTED BY THE CITY ENGINEER.



TYPICAL LINE MANHOLE



TYPICAL JUNCTION MANHOLE



BRANDON KENT JONES
No. 5148758
PROJECT ENGINEER
11/28/2023
DATE

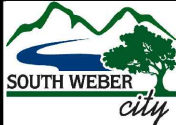
REV.	DATE	APPR.

SCALE:
N. T.S.

DESIGNED BKJ
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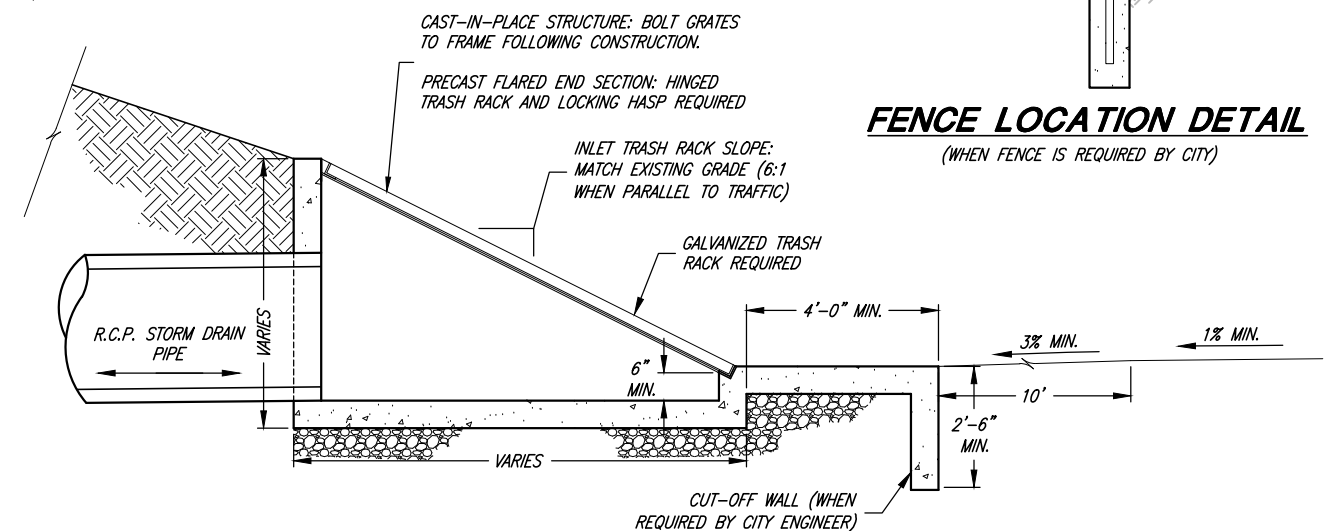
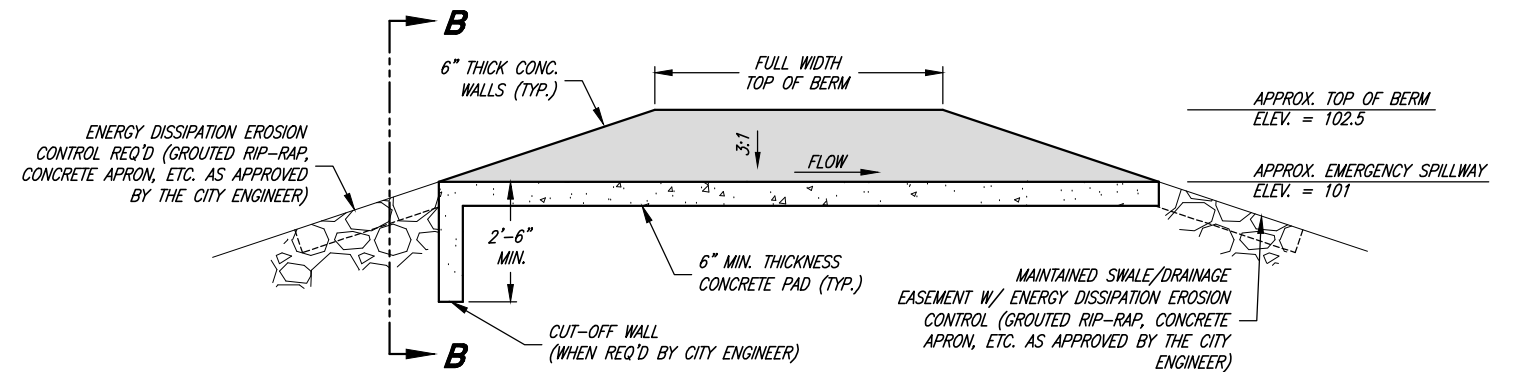
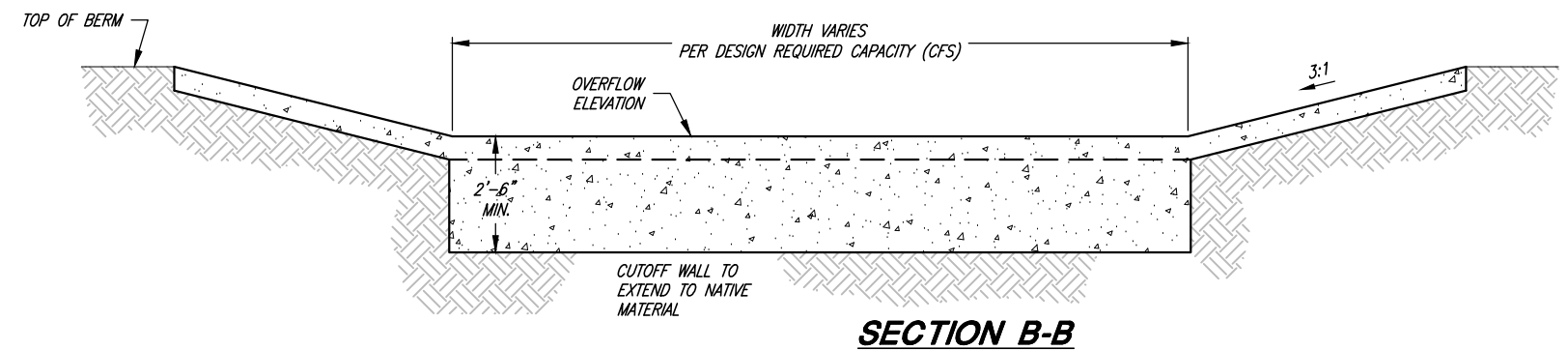


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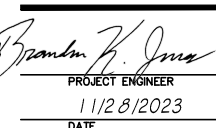
SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - STORM DRAIN SYSTEM STANDARDS
STORM DRAIN MANHOLE DETAILS

SHEET:
SD3
OF 34 SHEETS
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INCLINED GRATE STORM DRAIN INLET

****INCLINED GRATES ARE REQ'D ON ALL PIPES/INLETS WHERE OPEN CHANNELS, DITCHES, OR PONDS DISCHARGE DIRECTLY INTO THE STORM DRAIN SYSTEM.**

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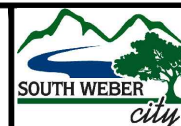
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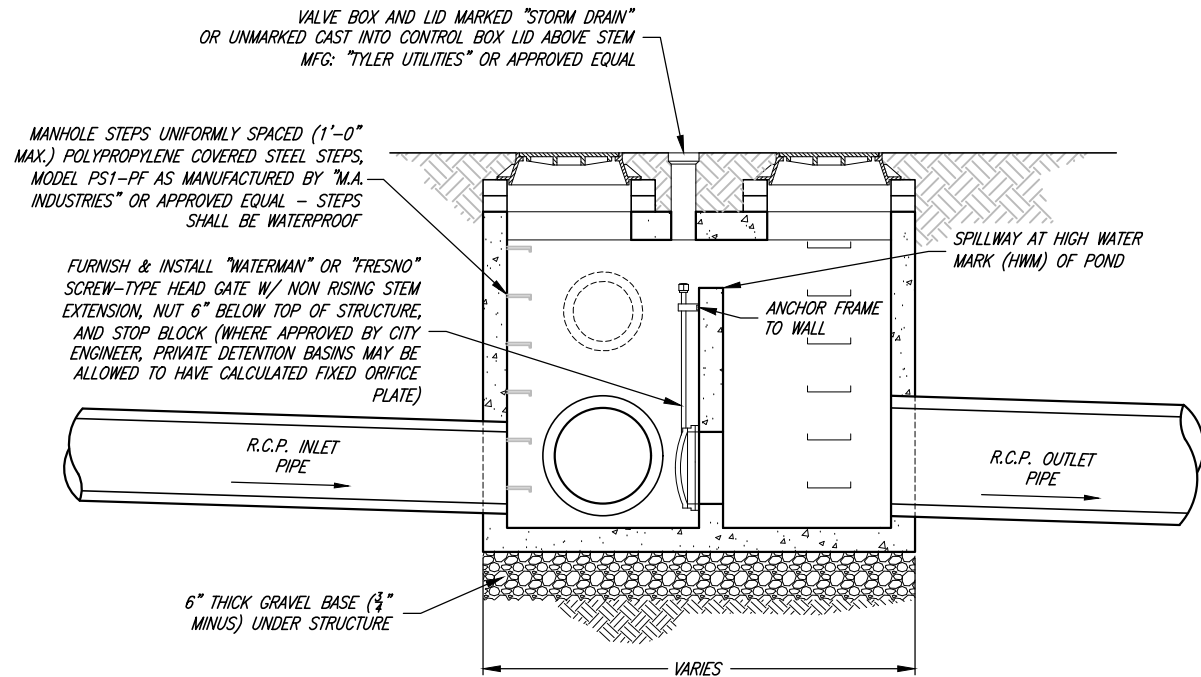
SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - STORM DRAIN SYSTEM STANDARDS

LARGE DETENTION BASIN DETAILS

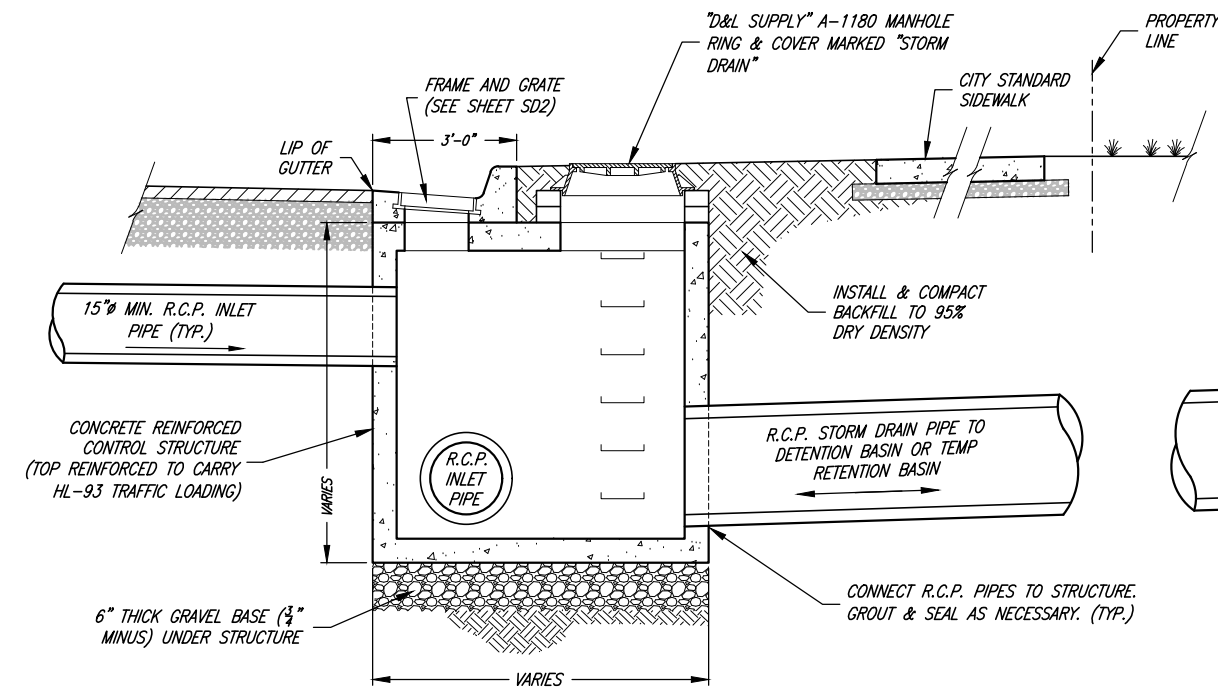
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34 SHEETS



SECTION B-B



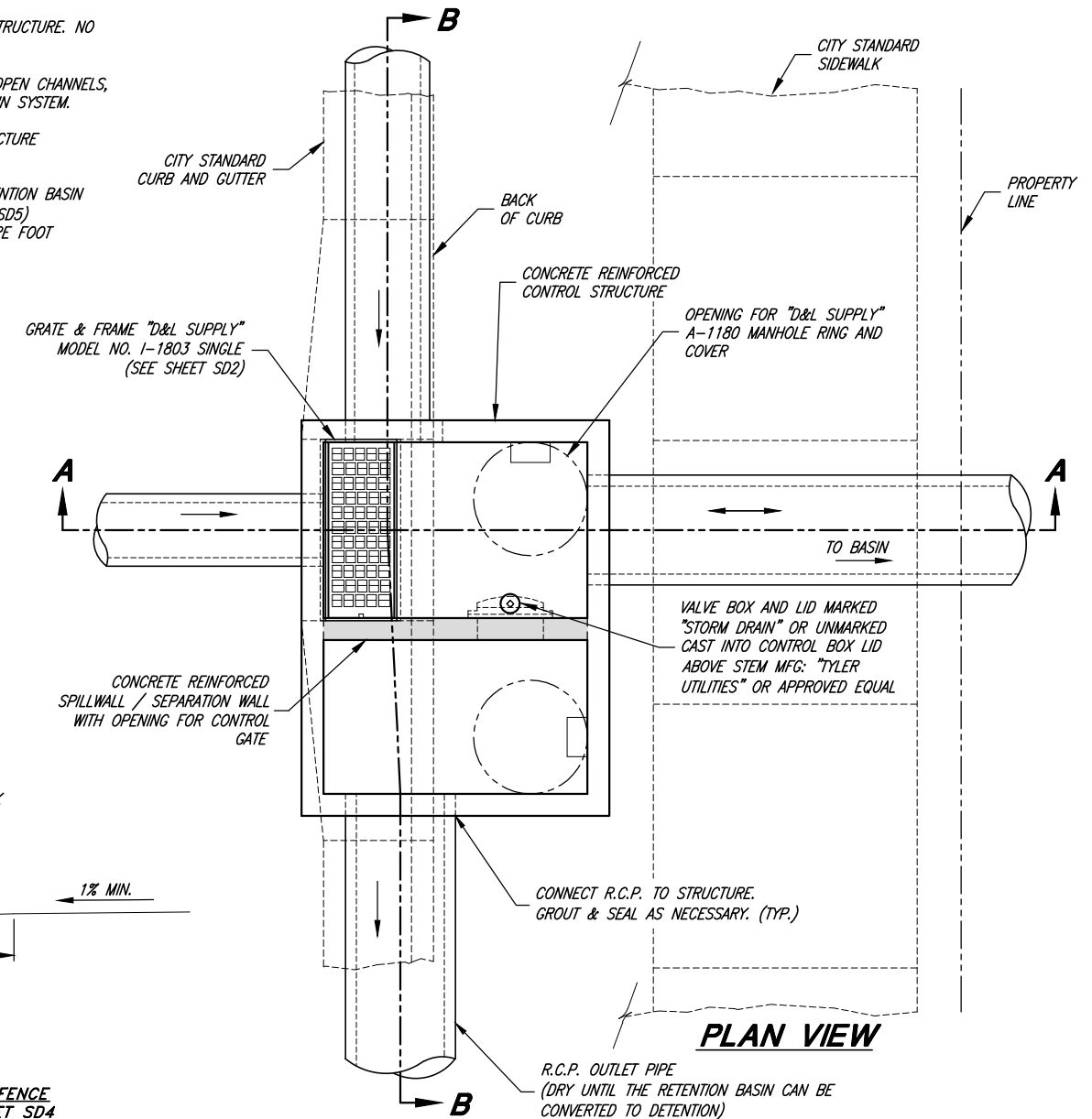
SECTION A-A

GENERAL NOTES:

1. ALL BASINS REGARDLESS OF LOCAL OR REGIONAL SHALL BE DESIGNED TO ACCOMMODATE A 100 YEAR STORM EVENT.
2. A DAM SAFETY (UTAH DIVISION OF WATER RIGHTS) HAZARD PERMIT MAY BE REQUIRED.
3. STRUCTURE DESIGN AND FLOW CALCULATIONS MUST BE APPROVED BY CITY ENGINEER PRIOR TO CONSTRUCTION.
4. STORM DRAIN LINES SHALL BE 15 INCH MINIMUM DIAMETER REINFORCED CONCRETE PIPE (RCP), OF APPROPRIATE CLASS.
5. THE SURFACE AREA OF THE BASIN SHALL BE SODDED AND SHALL BE PROVIDED WITH AN AUTOMATED SPRINKLER SYSTEM APPROVED BY THE CITY ENGINEER.
6. GRATES SHALL BE REMOVABLE FOR MAINTENANCE PURPOSES
7. GRATES SHALL BE HOT DIPPED GALVANIZED WITH BARS AT MAXIMUM 3 INCH SPACING.
8. LOW FLOWS MUST BE PIPED CONTINUOUSLY TO THE CONTROL STRUCTURE. NO OPEN FLOW IS PERMITTED THROUGH THE BASIN.
9. INCLINED GRATES ARE REQUIRED ON ALL PIPES/INLETS WHERE OPEN CHANNELS, DITCHES, OR PONDS DISCHARGE DIRECTLY INTO THE STORM DRAIN SYSTEM.
10. AN INTERNAL SPILLWAY MAY BE CONSTRUCTED INSIDE THE STRUCTURE DEPENDING ON SITE CONDITIONS AND ELEVATIONS.
11. BASIN STRUCTURES ARE DETERMINED BY THE SIZE OF THE DETENTION BASIN OR AS REQUIRED BY THE CITY ENGINEER. (SEE SHEET SD4 OR SD5)
 - a. SMALL DETENTION BASIN: LESS THAN OR EQUAL TO 1 ACRE FOOT
 - b. LARGE DETENTION BASIN: GREATER THAN 1 ACRE FOOT

STRUCTURAL NOTES:

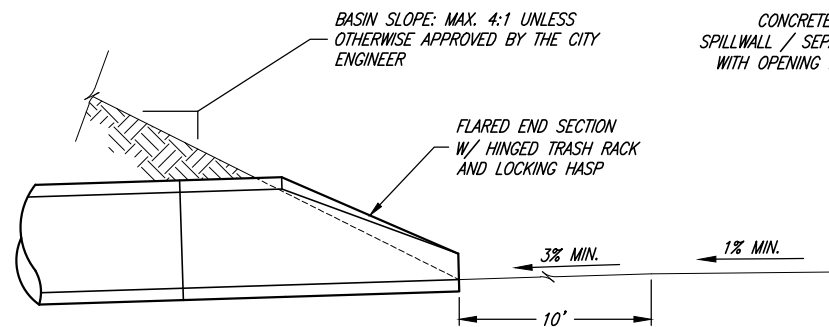
- A. PRECAST CONCRETE STRUCTURE CAN BE REPLACED WITH CAST-IN-PLACE CONCRETE VAULT. SUBMIT ENGINEERED CONSTRUCTION PLANS WITH REBAR DETAILS TO CITY ENGINEER FOR REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTION.
- B. ADD REINFORCEMENT AROUND OPENINGS EQUAL TO REINFORCEMENT DISPLACED BY OPENING.
- C. THE PRECAST VAULT MANUFACTURER IS RESPONSIBLE FOR DESIGN RELATED TO TRAFFIC LOADING AND THRUST. VERIFICATION OF PROPER DESIGN MUST BE PROVIDED TO THE CITY BY THE DEVELOPER, CONTRACTOR, OR PROPERTY OWNER AS THE CASE MAY BE.
- D. REINFORCEMENT TO CONFORM WITH ASTM A 615 GRADE 60
- E. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI
- F. USE AN AIR-ENTRAINING AGENT ON ALL CONCRETE EXPOSED TO THE WEATHER.
- G. HL-93 LOADING



PLAN VIEW

INLET/OUTLET CONTROL STRUCTURE

(PRECAST OR CAST-IN-PLACE)



EMERGENCY OVERFLOW AND FENCE LOCATION DETAIL: SEE SHEET SD4



PROJECT ENGINEER
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11/28/2023
DATE

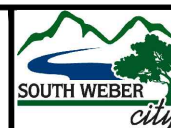
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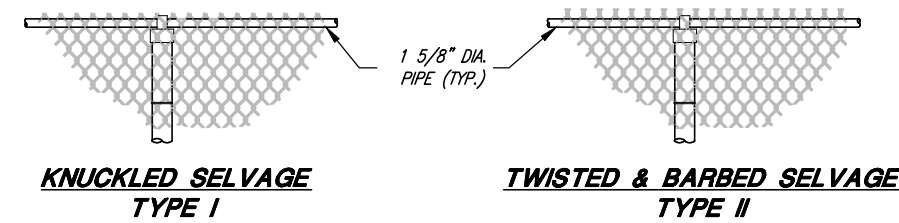


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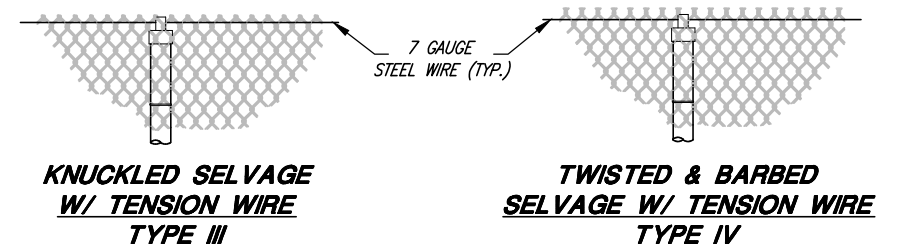


SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - STORM DRAIN SYSTEM STANDARDS
SMALL DETENTION BASIN DETAILS

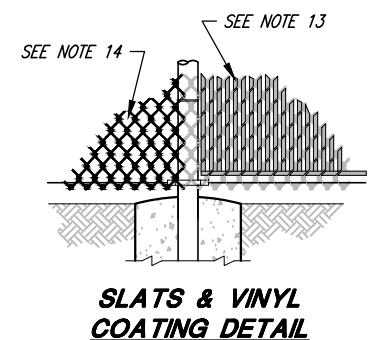
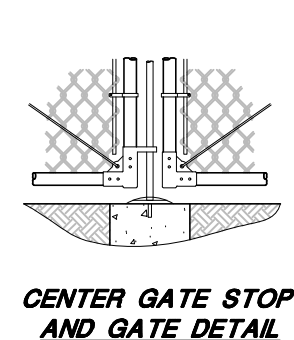
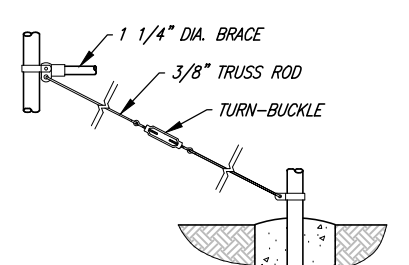
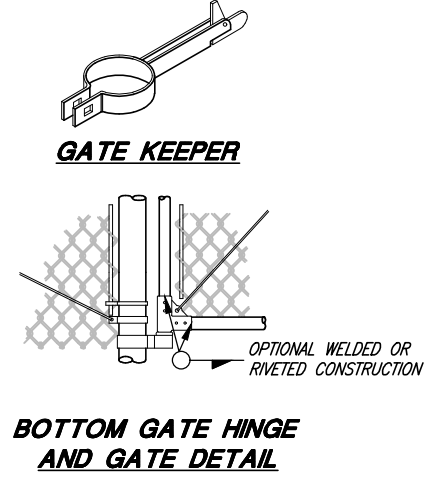
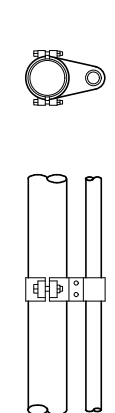
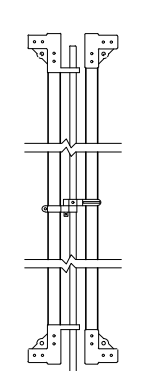
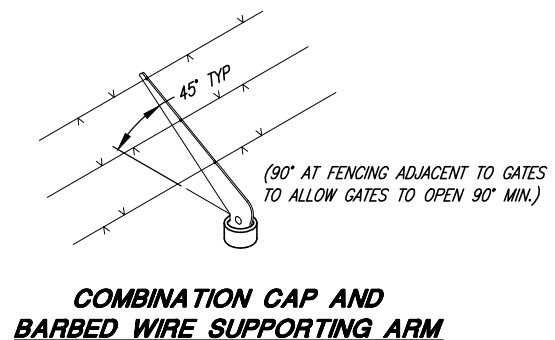
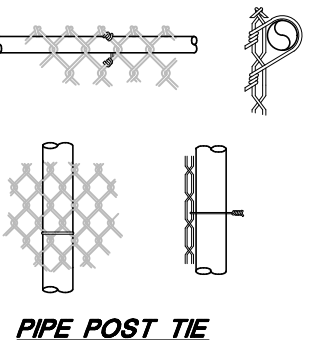
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TWISTED & BARBED SELVAGE TYPE II



TWISTED & BARBED SELVAGE W/ TENSION WIRE TYPE IV

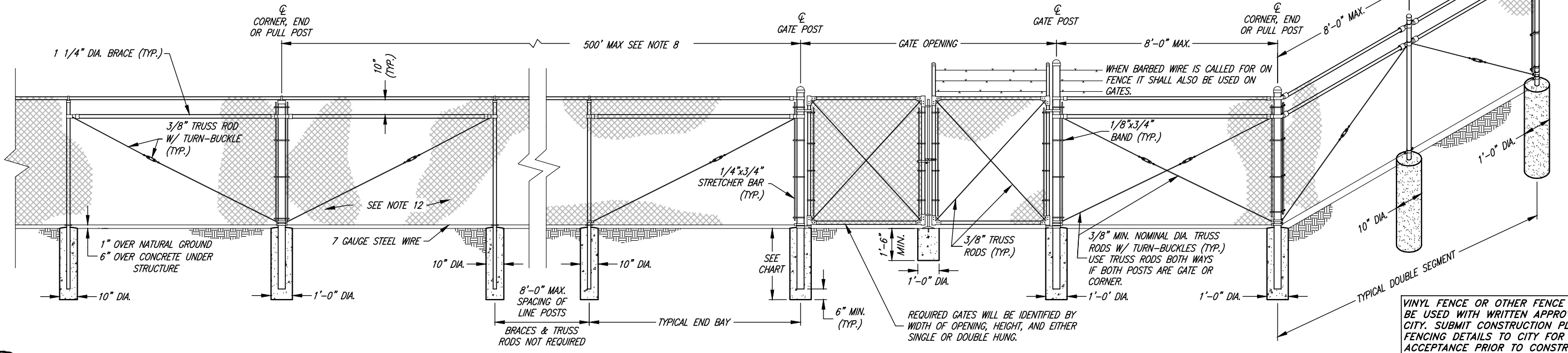


GENERAL NOTES:

1. MATERIALS, CONSTRUCTION, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. TOP SUPPORT - TYPES I AND II TUBULAR RAIL, TYPES III AND IV TENSION WIRE.
3. BARB WIRE SHALL ONLY BE USED WHEN APPROVED BY THE CITY.
4. TWISTED AND BARBED SELVAGE TOP AND BOTTOM SHALL BE USED ON FENCES 5- FEET HIGH OR GREATER.
5. KNUCKLED SELVAGE ON TOP AND TWISTED AND BARBED ON BOTTOM SHALL BE USED ON FENCES LESS THAN 5- FEET.
6. ALL STEEL PIPE MEMBERS SHALL CONFORM TO ASTM A53 HOT DIPPED ZINC COATED HIGH TENSILE STEEL PIPE.
7. POSTS SHALL BE SCHEDULE 40 PIPE.
8. LINE POSTS SHALL BE LOCATED AT EQUAL SPACING FOR EACH SEGMENT WITH A MAXIMUM SPACING AS FOLLOWS:
 - a. TANGENT SECTIONS TO 500-FOOT RADIUS NOT MORE THAN 8- FEET.
 - b. UNDER 500-FOOT RADIUS TO 200-FOOT RADIUS NOT MORE THAN 8- FEET.
 - c. UNDER 200-FOOT RADIUS TO 100-FOOT RADIUS NOT MORE THAN 6- FEET.
 - d. UNDER 100-FOOT RADIUS NOT MORE THAN 5- FEET.
9. TRUSS RODS AND BRACES SHALL NOT BE REQUIRED FOR FABRIC HEIGHT LESS THAN 5- FEET.
10. TENSION WIRE SHALL BE 7 GAUGE ZINC- OR ALUMINUM- COATED COIL SPRING STEEL TENSION WIRE.
11. ALL POSTS SHALL BE SET IN 3000 PSI CONCRETE AND SHALL BE TOPPED WITH BALL TYPE OR OTHER APPROVED ORNAMENT.
12. ALL FABRIC SHALL BE 2" GALVANIZED 9 GAUGE MESH.
13. WHITE VERTICAL SEMI-PRIVACY VINYL SLATS WITH BOTTOM-LOCKING SLAT, WHEN REQUIRED BY THE CITY.
14. BLACK VINYL COATED CHAIN LINK FENCING WHEN REQUIRED BY THE CITY.
15. ALL FENCING SHALL CONFORM TO LOCATION AND HEIGHT LIMITATIONS AS STATED IN SOUTH WEBER CITY FENCING ORDINANCE.

HEIGHT	GATE OPENING	GATE POST	GATE FRAME
UNDER 6 FEET	SINGLE TO 6' OR DOUBLE TO 12'	2"	1"
	SINGLE OVER 6' TO 8' OR DOUBLE OVER 12' TO 16'	2 1/2"	
	SINGLE OVER 8' TO 12' OR DOUBLE 16' TO 24'	4"	1 1/2"
6 FEET AND OVER	SINGLE TO 6' OR DOUBLE TO 12'	3 1/2"	
	SINGLE OVER 6' TO 12' OR DOUBLE OVER 12' TO 24'	4"	
	SINGLE OVER 12' TO 18' OR DOUBLE OVER 24' TO 36'	6"	1 1/2"
	SINGLE OVER 18' OR DOUBLE OVER 36'	8"	

HEIGHT OF FABRIC	DEPTH OF POSTS	LENGTH OF END, CORNER OR PULL POST	LENGTH OF LINE POST	SIZE OF POSTS	
				END, CORNER, & PULL POSTS	LINE POST
				NOM. SIZE	NOM. SIZE
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"
3'	2'	5'	4'-8"	2"	1 1/2"

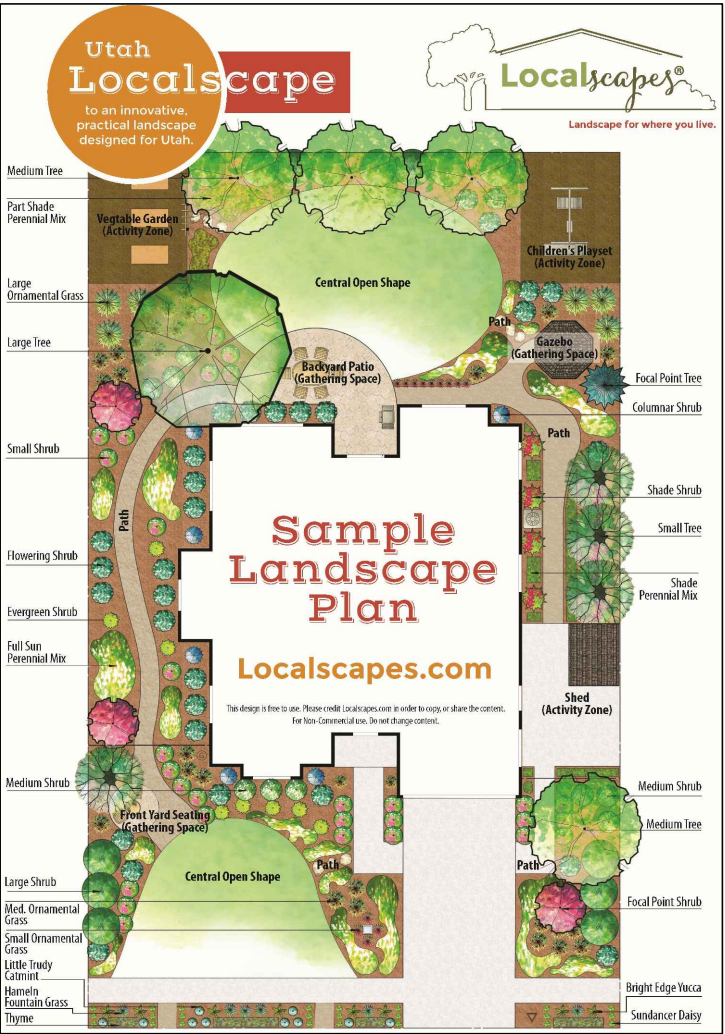


WATER EFFICIENT (WATER WISE) LANDSCAPING:

1. PURPOSE:
- THE PURPOSE OF THESE WATER EFFICIENCY STANDARDS IS TO CONSERVE THE PUBLIC'S WATER RESOURCES BY ESTABLISHING WATER CONSERVATION STANDARDS FOR OUTDOOR LANDSCAPING.
2. REFER TO SOUTH WEBER CITY CODE TITLE 10 CHAPTER 15 – WATER EFFICIENT LANDSCAPE REQUIREMENTS
3. "WATER WISE LANDSCAPING"
- A. LANDSCAPES IN EXISTING SINGLE-FAMILY RESIDENTIAL DEVELOPMENTS: "WATER WISE LANDSCAPING" IS RECOMMENDED BUT NOT REQUIRED.
- B. LANDSCAPES IN NEW SINGLE-FAMILY RESIDENTIAL DEVELOPMENTS: SEE CITY CODE TITLE 10 CHAPTER 15
- C. LANDSCAPES IN ALL OTHER TYPES OF DEVELOPMENTS: SEE CITY CODE TITLE 10 CHAPTER 15
4. ADDITIONAL "WATER WISE LANDSCAPING" RESOURCES: REFER TO THE FOLLOWING WEBSITES:
- a. <https://localscapes.com>
- B. <https://conservationgardenpark.org>
- C. <https://extension.usu.edu/cwel/principles>

ALL WATER METERS TO BE CLEAR AND ACCESSIBLE
(DO NOT BURY OR PLACE ANYTHING ON TOP OF
THE METER LID)

DISCLAIMER:
THE "WATER WISE LANDSCAPING" EXAMPLES SHOWN ON THIS SHEET ARE POSSIBLE RECOMMENDATIONS FOR USE WITHIN THE CITY. ANY SPECIFIC WEBSITES, COMMERCIAL PRODUCTS, PROCESS OR SERVICE BY TRADE NAME, TRADEMARK, MANUFACTURER, OR OTHERWISE, DOES NOT CONSTITUTE OR IMPLY ITS ENDORSEMENT, RECOMMENDATION, OR FAVORING BY SOUTH WEBER CITY. THE PURPOSE OF PROVIDING SPECIFIC PRODUCT INFORMATION IS TO ENSURE THAT THE PROPERTY OWNER, CONTRACTOR AND/OR DEVELOPER HAS ALL THE APPROPRIATE INFORMATION AND REFERENCES TO ASSESS THE USEFULNESS OF THE PRODUCT.



<https://localscapes.com>
<https://conservationgardenpark.org>
<https://extension.usu.edu/cwel/principles>



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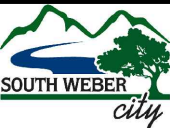
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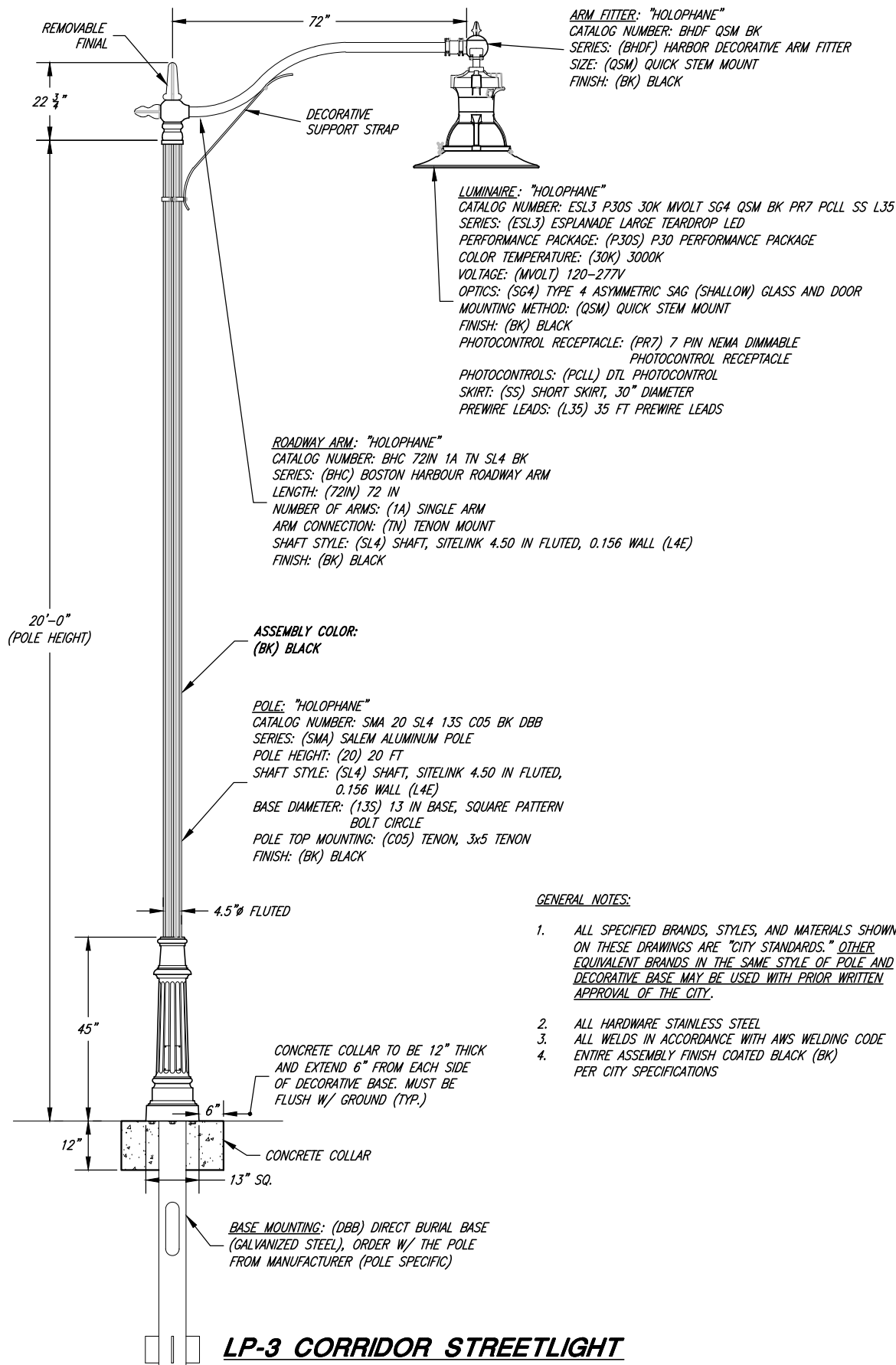


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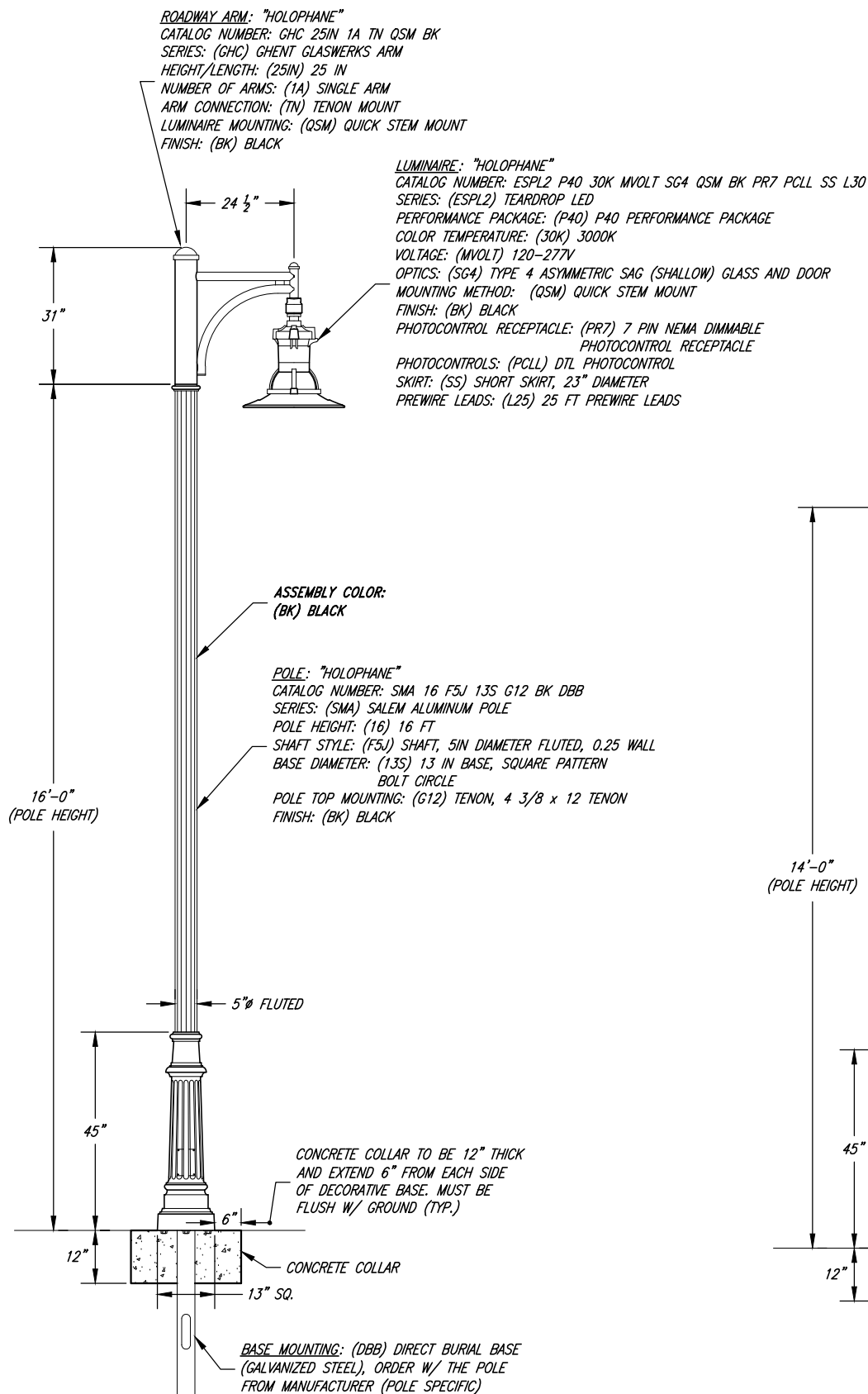


SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - GENERAL CONSTRUCTION & LANDSCAPING STANDARDS
WATER EFFICIENT LANDSCAPING

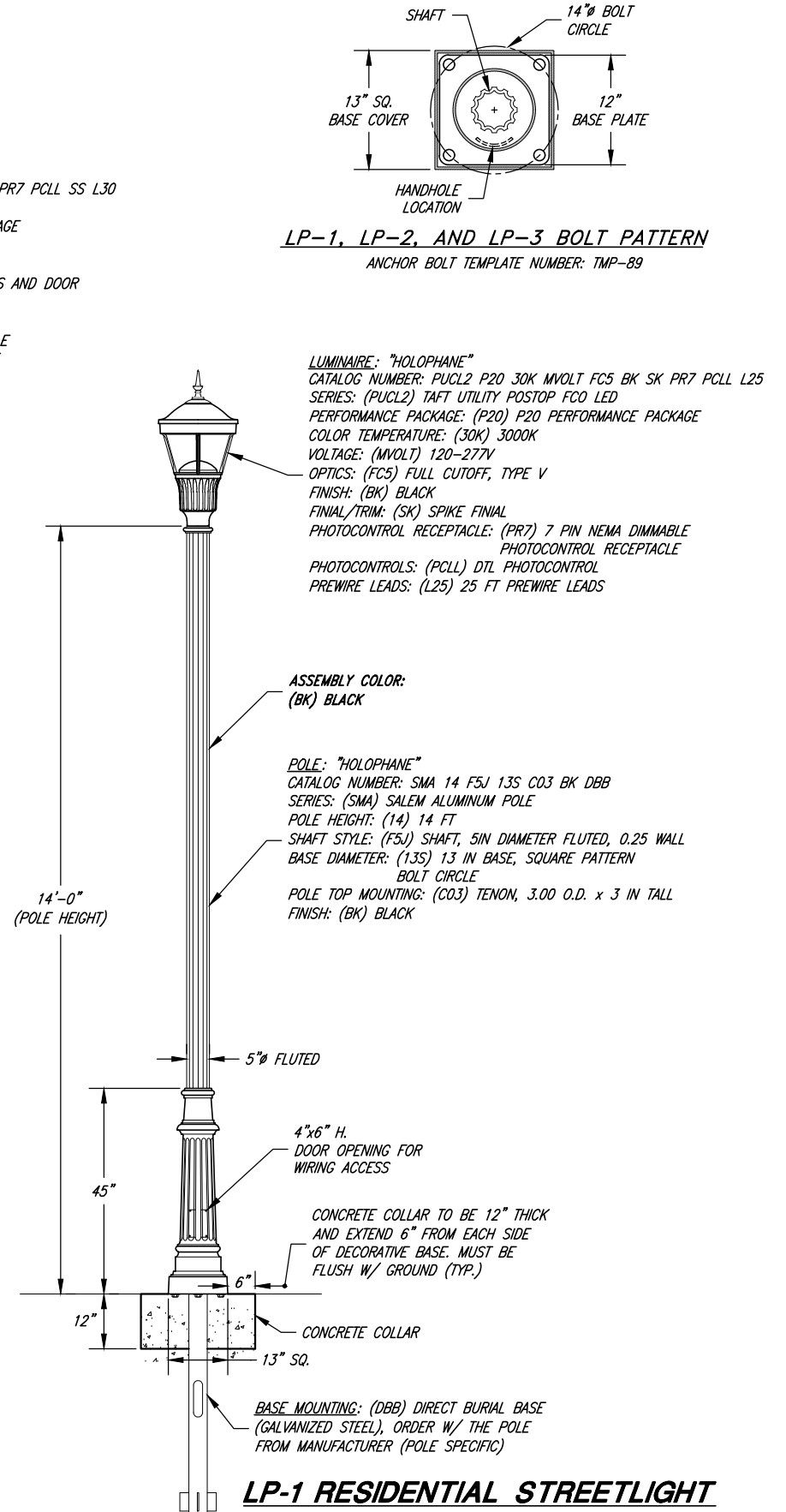
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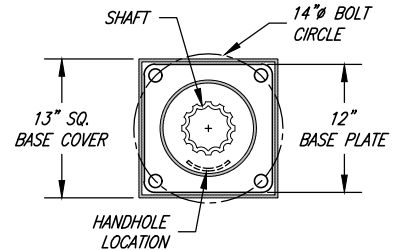
LP-3 CORRIDOR STREETLIGHT



LP-2 INTERSECTION STREETLIGHT



LP-1 RESIDENTIAL STREETLIGHT



LP-1, LP-2, AND LP-3 BOLT PATTERN

ANCHOR BOLT TEMPLATE NUMBER: TMP-89

GENERAL NOTES:

1. ALL SPECIFIED BRANDS, STYLES, AND MATERIALS SHOWN ON THESE DRAWINGS ARE "CITY STANDARDS." OTHER EQUIVALENT BRANDS IN THE SAME STYLE OF POLE AND DECORATIVE BASE MAY BE USED WITH PRIOR WRITTEN APPROVAL OF THE CITY.
2. ALL HARDWARE STAINLESS STEEL
3. ALL WELDS IN ACCORDANCE WITH AWS WELDING CODE
4. ENTIRE ASSEMBLY FINISH COATED BLACK (BK) PER CITY SPECIFICATIONS



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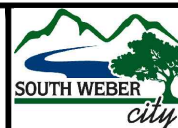
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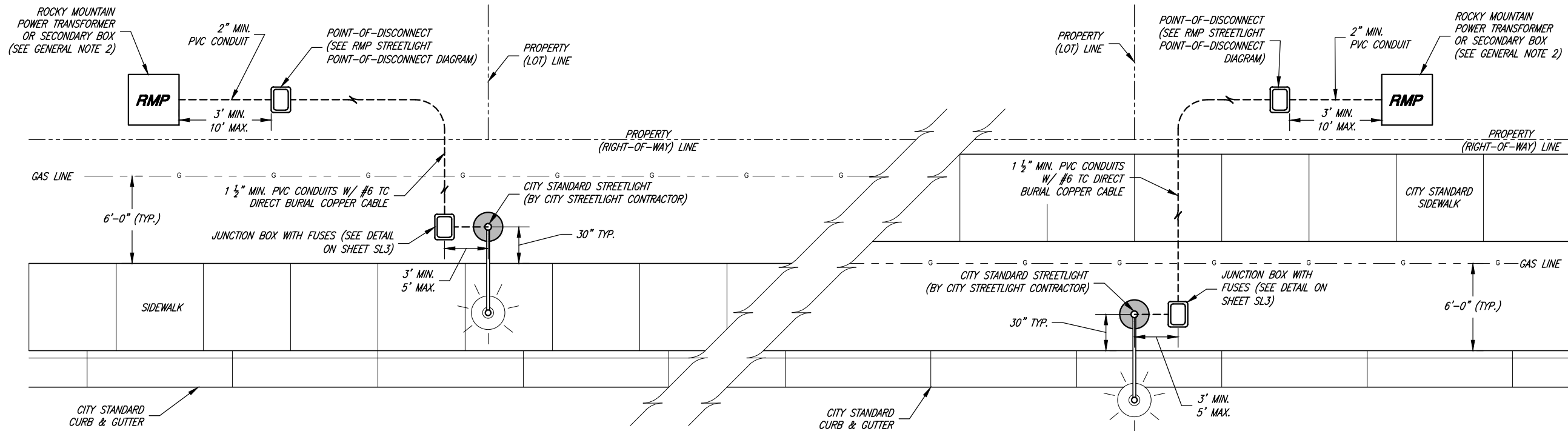


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SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - STREET LIGHTING STANDARDS
POLES AND FIXTURES

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OF 34 SHEETS
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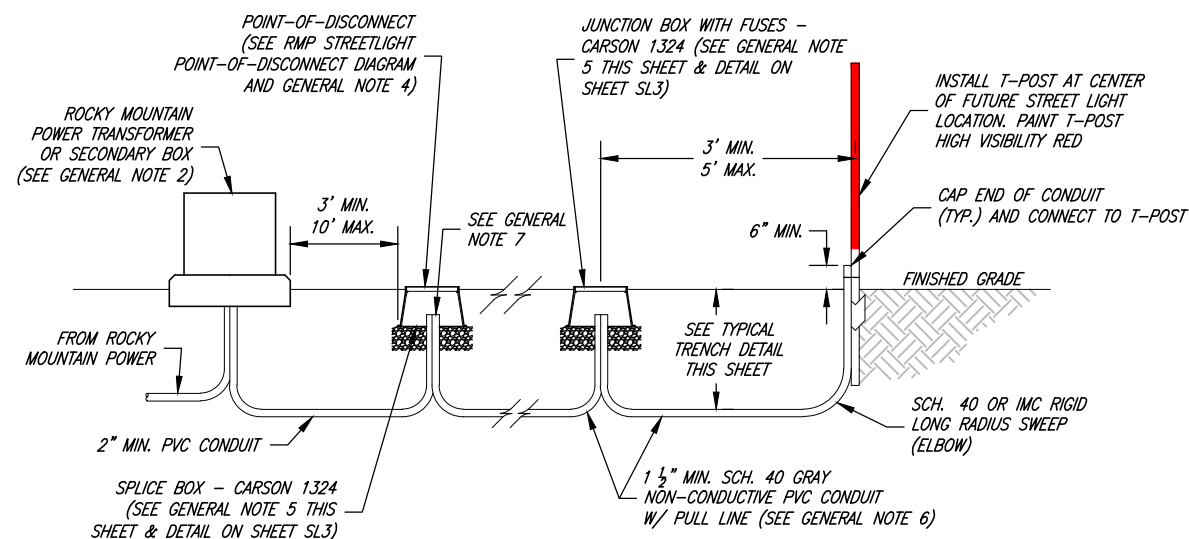
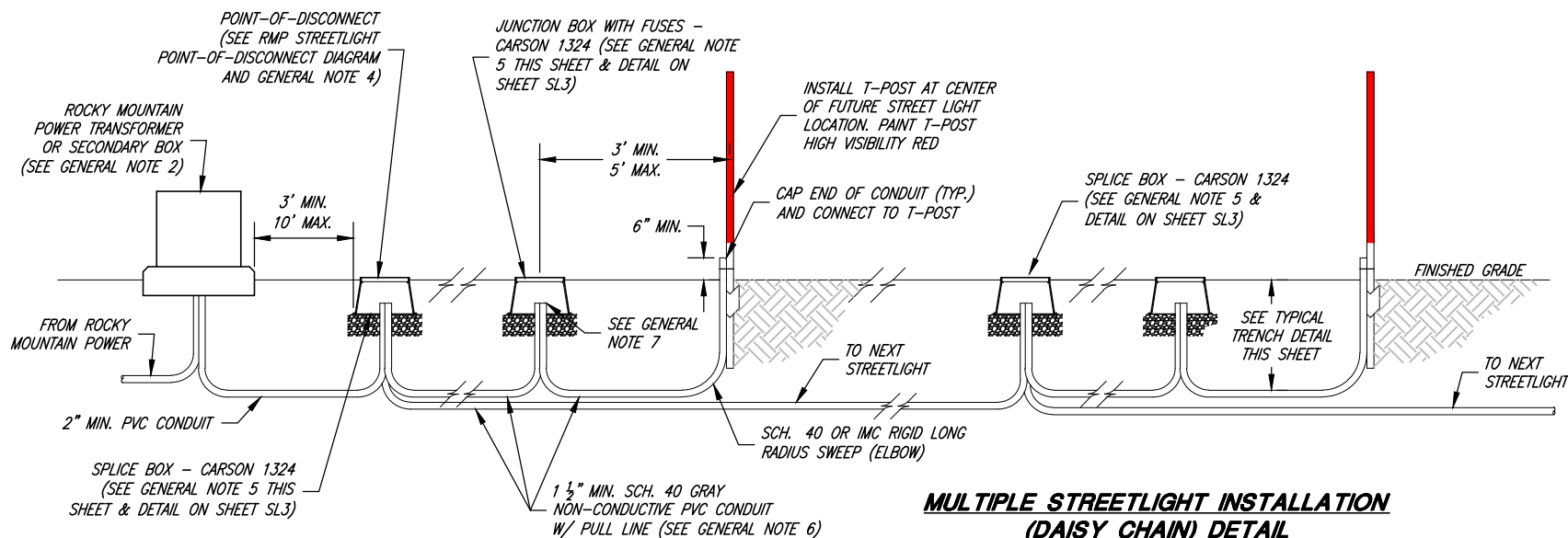
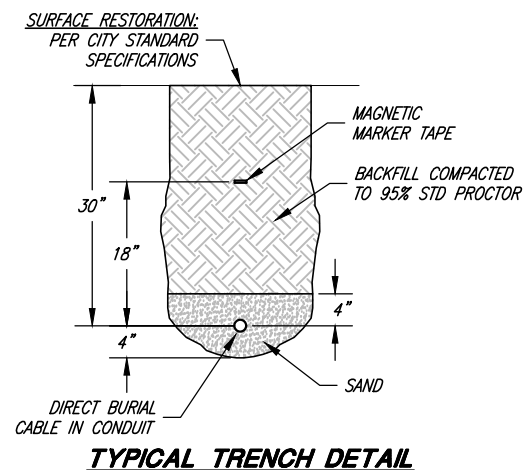


GENERAL NOTES:

1. FOR THE STREETLIGHT DESIGN STANDARDS AND SPECIFICATIONS REFER TO THE APPLICABLE SECTIONS IN THE SOUTH WEBER CITY DEVELOPMENT, DESIGN & CONSTRUCTION STANDARDS.
2. DEVELOPER/CONTRACTOR SHALL CONSULT THE POWER COMPANY ON THE JUNCTION BOX LOCATION, PEDESTAL LOCATION, CONDUIT LOCATION, AND DIGGING PRIOR TO INSTALLATION.
3. WHERE POSSIBLE, LOCATE STREETLIGHT CONDUIT PARALLEL WITH RMP CONDUIT.
4. JUNCTION BOX CONNECTING TO STREETLIGHT MAY ALSO SERVE AS POINT-OF-DISCONNECT IF LOCATED WITHIN 10' FROM THE POWER SOURCE.

GENERAL NOTES CONT.:

5. INGROUND BOXES LOCATED WITHIN 20' OF APPROACHES OR INTERSECTIONS SHALL BE TRAFFIC RATED. WHERE APPROVED BY THE CITY ENGINEER, ANY BOX INSTALLATION IN SIDEWALK OR CONCRETE WILL REQUIRE THE GROUND BOX TO BE DESIGNED AND LISTED FOR USE IN CONCRETE. SUBMIT BOX SPECIFICATIONS TO CITY ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. ALL BOXES SHALL HAVE THE WORDS "SOUTH WEBER STREET LIGHTING" ON THE COVER.
6. FLAT PULL LINE CAPABLE OF WITHSTANDING 1000 LBS OF TENSION, INSTALLED WITH 72 INCHES OF EXTRA LINE CAPABLE OF EXTENDING FROM EACH END OF CONDUIT. THE PULL LINE SHALL BE SECURED INSIDE THE ENDS OF THE CONDUIT AND BOTH ENDS SHALL BE CAPPED.
7. CONDUIT SHALL EXTEND A MAX. OF 3 INCHES ABOVE THE GRAVEL IN THE BASE OF THE GROUND BOX AND A MINIMUM OF 2" ABOVE THE GRAVEL.



PROJECT ENGINEER
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11/28/2023
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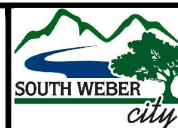
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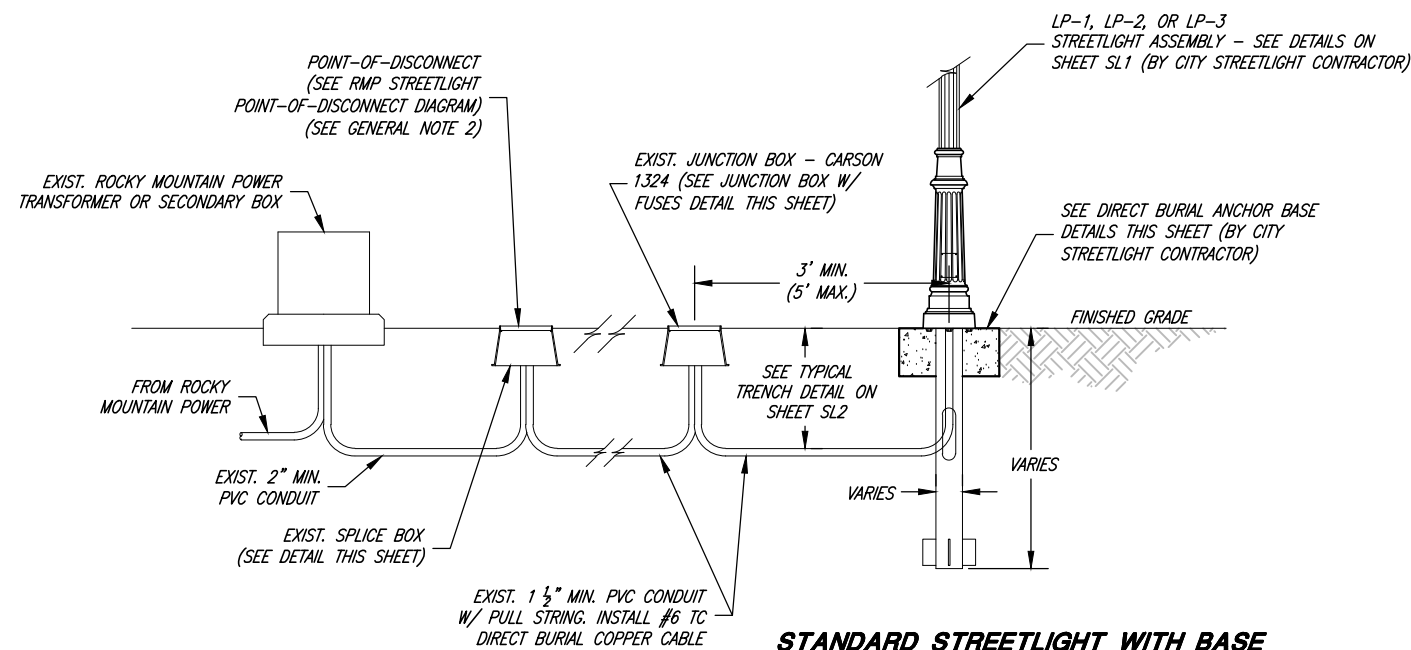
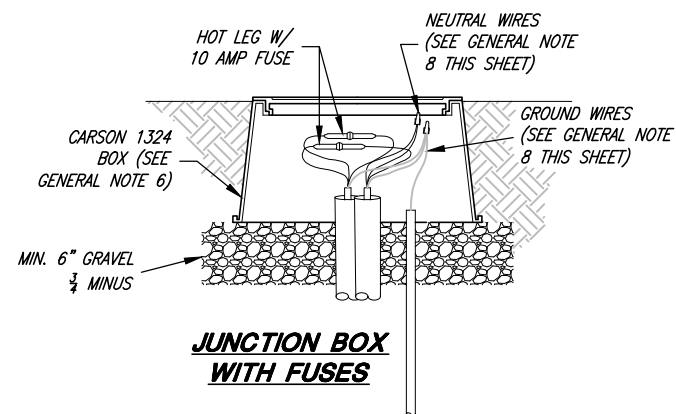
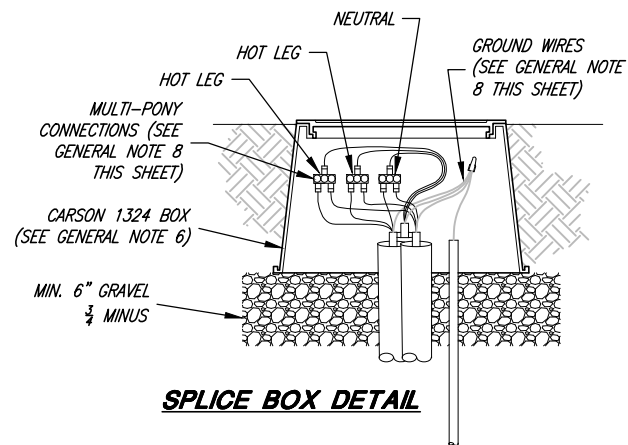


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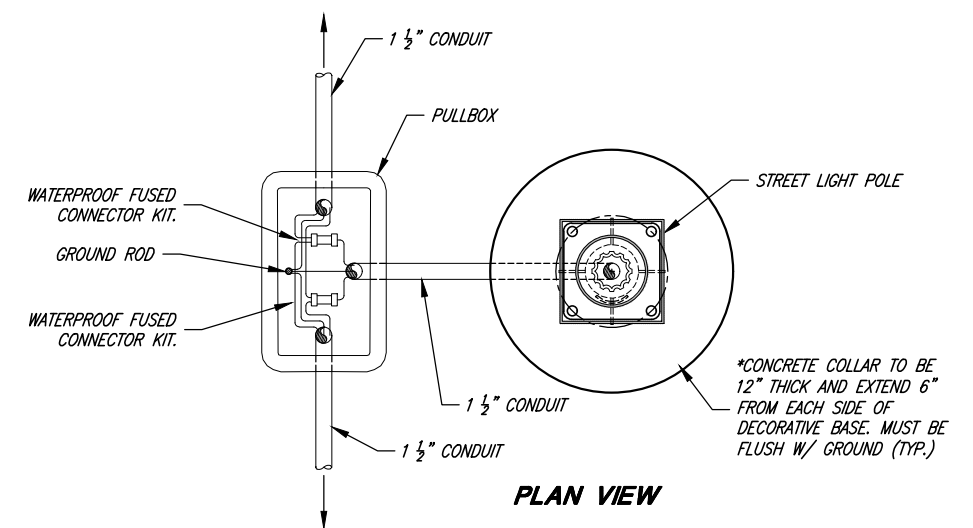
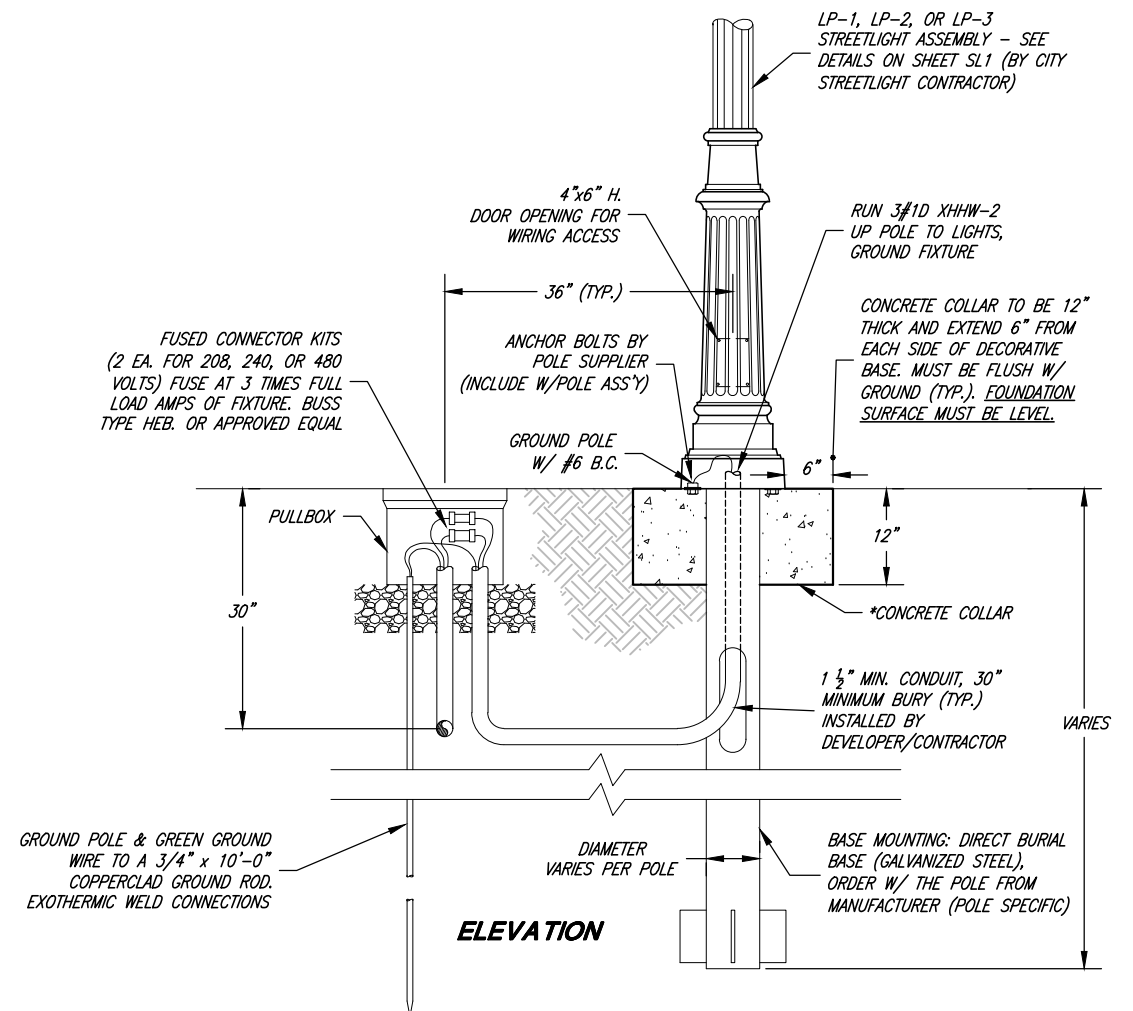
SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - STREET LIGHTING STANDARDS
DEVELOPER/CONTRACTOR INSTALLATION PORTION
OF STREETLIGHT STANDARDS

SHEET:
SL2
OF 34 SHEETS
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GENERAL NOTES:

- EACH LIGHT POLE ASSEMBLY SHALL HAVE A JUNCTION BOX WITH FUSES. FUSE HOT WIRES IN JUNCTION BOXES, SUPPLY SPLICE KIT FOR NEUTRAL CABLE.
- LEAVE PIGTAIL 8 FEET LONG TO SECONDARY BOX; ROCKY MOUNTAIN POWER TO MAKE CONNECTION.
- ALL CONDUCTORS SHALL BE OKONITE-FMR TYPE TC-CABLE #112-10-4054; OKONITE X-OLENE OKOSEAL #112-31-3747; OR ANIXTER VNTC #3H-0603 COPPER ONLY.
- FUSE HOLDERS SHALL BE IN-LINE, WATER TIGHT LEC-AA
- WIRE MUST EXTEND 18 INCHES ABOVE GRADE TO SPLICE IN GROUND BOX.
- CARSON 1324 BOX SPECIFICATIONS:
 - 12" DEPTH (TYP.)
 - FLUSH SOLID LID
 - COLOR OPTION BLACK
 - LID SECURED WITH STAINLESS STEEL HEX BOLTS
 - LID MUST SPECIFY "SOUTH WEBER STREET LIGHTING"
- ALL BELOW GRADE SPLICING / FUSES SHALL BE WATERTIGHT.
- IN BOX CONNECTIONS:
 - USE "BURNDY" BIBS3503DB, DIRECT BURIAL SUBMERSIBLE THREE CONDUCTOR INSULATED MULTI-TAP CONNECTOR FOR IN BOX CONNECTIONS WHERE A FUSE KIT IS NOT NEEDED.
 - WIRE NUTS SHALL NOT BE ALLOWED FOR CONNECTIONS IN GROUND BOXES. WIRE NUTS MAY ONLY BE USED FOR CONNECTIONS IN THE BASE OF POLES.



STREET LIGHT POLE, DIRECT BURIAL ANCHOR BASE AND PULL BOX

N.T.S.
* CONCRETE CLASS 4000 PER APWA 03 30 04, PLACEMENT PER APWA 03 30 10, AND CURE PER APWA 03 39 00



PROJECT ENGINEER
11/28/2023
DATE

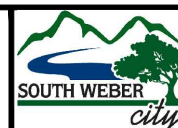
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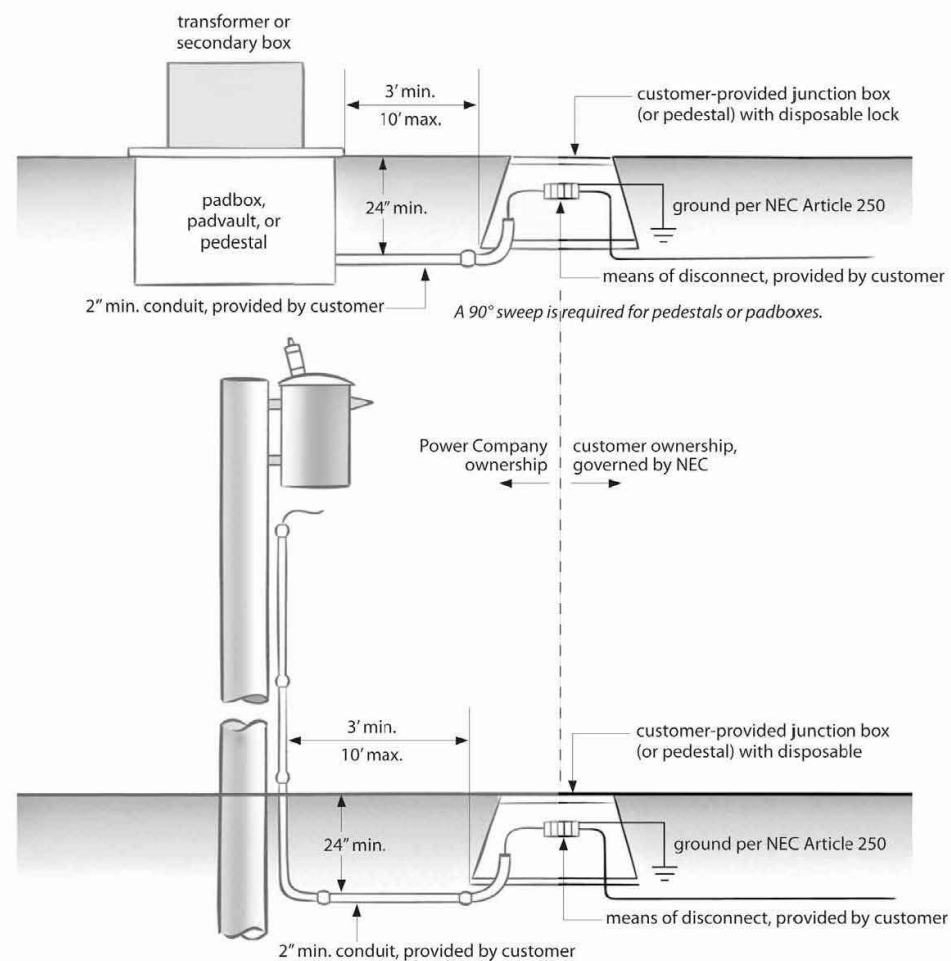
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SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - STREET LIGHTING STANDARDS
CITY CONTRACTOR INSTALLATION PORTION
OF STREETLIGHT STANDARDS

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Figure 63—Street Lighting Points of Connection Diagram



More information on streetlights is posted online at: <https://www.pacificpower.net/working-with-us/municipalities.html> and <https://www.rockymountainpower.net/working-with-us/municipalities.html>.

GENERAL NOTE:

REFER TO THE MOST RECENT EDITION OF THE ROCKY MOUNTAIN
POWER ELECTRIC SERVICE REQUIREMENTS MANUAL FOR GUIDANCE
AND INSTRUCTIONS ON ELECTRIC SERVICE REQUIREMENTS.

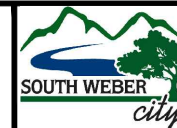


This manual shall be distributed and interpreted in its entirety. Individual pages will not represent all the requirements necessary for an installation. © 2019 PacifiCorp.



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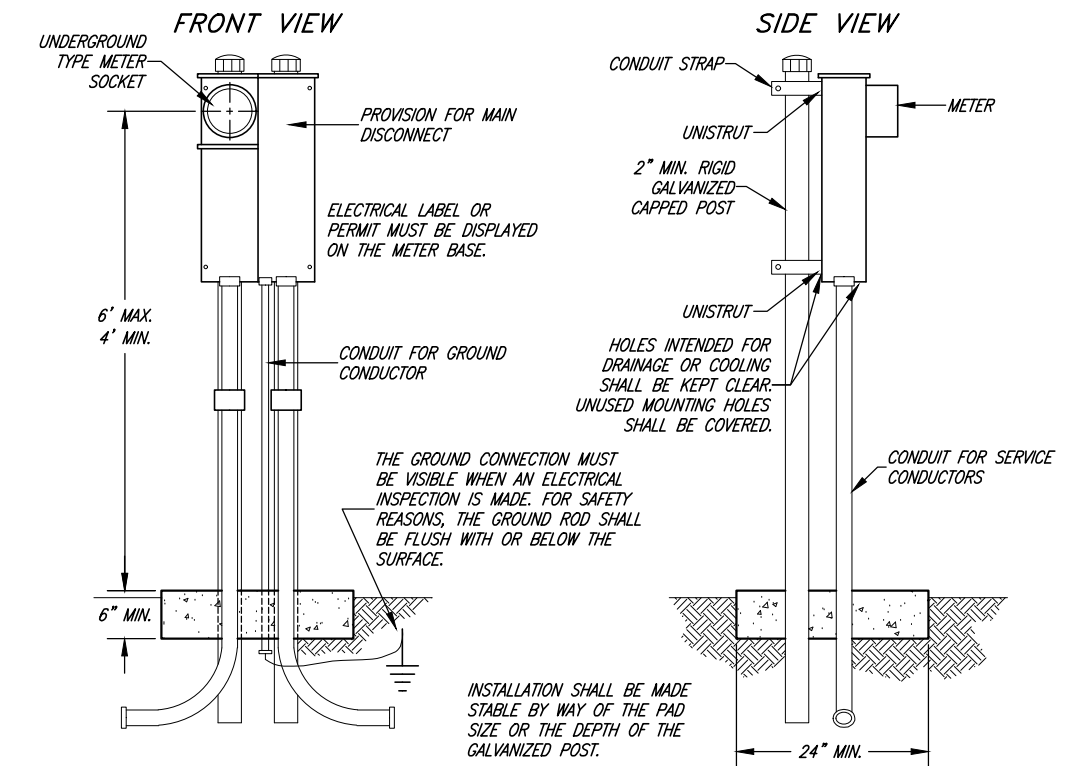
SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - STREET LIGHTING STANDARDS

ROCKY MOUNTAIN POWER CONNECTION DETAILS

SHEET:

SL4

34 SHEETS



UNDERGROUND SERVICE TO A FREE-STANDING METER BASE

(STEEL POLE)

INSTALLATION PER ROCKY MOUNTAIN POWER
ELECTRIC SERVICE REQUIREMENTS MANUAL

DEVELOPER/CONTRACTOR WILL FURNISH AND INSTALL:

- A. METER SOCKET ENCLOSURE (UNDERGROUND TYPE WITH MANUAL-LINK BYPASS)
- B. PEDESTAL HARDWARE
- C. CONDUIT
- D. RIGHT-OF-WAY OR EASEMENT
- E. TRENCH EXCAVATION AND BACKFILL
- F. GROUNDING PER NEC
- G. CONCRETE PAD 24" x 24" x 6" DEPTH
- H. LONG RADIUS SWEEP
- I. 36" SWEEP

FREE-STANDING METER BASE REQUIREMENTS:

- A1. THE DEVELOPER/CONTRACTOR SHALL MEET WITH THE POWER COMPANY TO DETERMINE THE LOCATION OF THE FREE-STANDING METER BASE.
- B1. THE FREE-STANDING METER BASE SHALL BE LOCATED ADJACENT TO, OR IN, THE POWER COMPANY EASEMENT.
- C1. THE FREE-STANDING METER BASE SHALL MEET ALL LOCAL ORDINANCE REQUIREMENTS.
- D1. THE METER SOCKET SHALL BE PROTECTED FROM DAMAGE BY USE OF BARRIER POSTS OR OTHER SUITABLE PROTECTION APPROVED BY THE POWER COMPANY.
- E1. THE DEVELOPER/CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN AN APPROVED PEDESTAL OR POLE POST.
- F1. THE ACCESS DOOR TO POWER COMPANY CONNECTIONS SHALL BE KEPT FREE OF OBSTRUCTIONS A MINIMUM OF 6" ABOVE THE FINAL GRADE, WITH A SEALABLE PROVISION FOR THE POWER COMPANY.
- G1. THE UNMETERED SERVICE CONDUCTOR AND THE METERED SERVICE CONDUCTOR SHALL NO BE RUN IN THE SAME CONDUIT, RACEWAY, OR GUTTER.
- H1. THE METER SOCKET AND SERVICE EQUIPMENT SHALL BE NEMA TYPE 3R (RAINPROOF), IN GOOD CONDITION WITH NO HOLES, DENTS OR DAMAGE, AND PLUMB IN ALL DIRECTIONS. THE INSTALLATION SHALL BE MADE WITH SUFFICIENT MATERIALS AND INSTALLED SUCH THAT IT REMAINS PLUMB FOR THE DURATION OF THE SERVICE.
- I1. CONDUIT AND CONDUCTOR TRENCHERS SHALL BE LOCATED AWAY FROM (AND NEVER UNDERNEATH) THE PAD AND FOUNDATION. FOR MOBILE HOMES, TRENCHES SHALL BE LOCATED CLEAR OF THE AREA PROVIDED FOR THE DWELLING.
- J1. WHERE TWO OR MORE METERS ARE LOCATED SIDE-BY-SIDE (SUCH AS WITH DUPLEXES OR IN MOBILE HOME PARKS), THE METER SOCKET ENCLOSURE SHALL BE PERMANENTLY LABELED WITH THE SPACE OR BERTH NUMBERS.



PROJECT ENGINEER
11/28/202
DATE

REV	DATE	ADDR	

SCALE:

N.T.S.

DESIGNED BKJ
DRAWN BEB
CHECKED BKJ



**JONES &
ASSOCIATES**

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SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - STREET LIGHTING STANDARDS

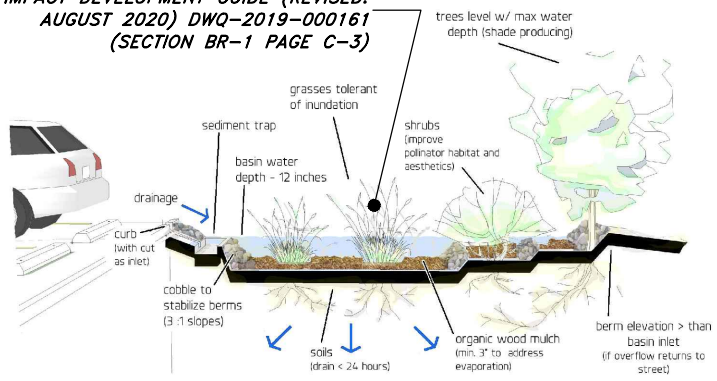
ROCKY MOUNTAIN POWER CONNECTION DETAILS

SHEET:

SL4

34 SHEETS

FOR RAIN GARDEN DETAIL, SEE UTAH LOW IMPACT DEVELOPMENT GUIDE (REVISED: AUGUST 2020) DWQ-2019-000161 (SECTION BR-1 PAGE C-3)



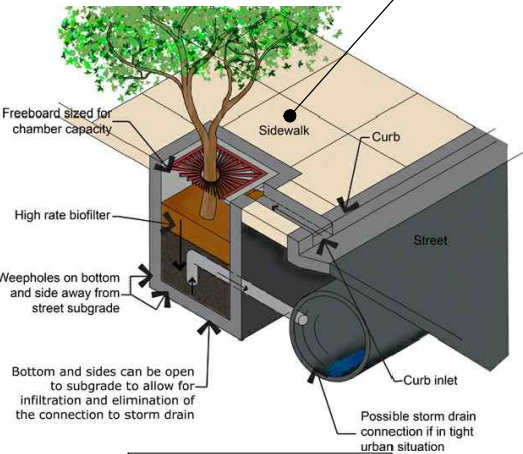
Basic Basin Design Considerations

diagram by Paul Navroth for SUH

RAIN GARDEN

*** http://www.lid-stormwater.net/site_map.htm ***

FOR TREE BOX FILTER DETAIL, SEE UTAH LOW IMPACT DEVELOPMENT GUIDE (REVISED: AUGUST 2020) DWQ-2019-000161 (SECTION BR-5 PAGE C-28)



TREE BOX FILTER

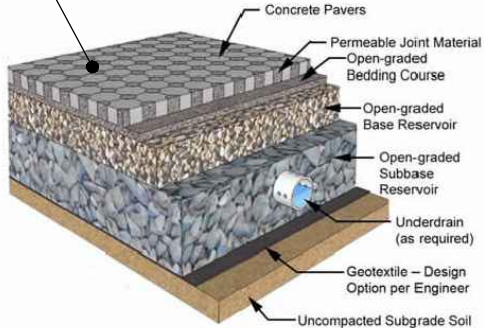
From www.wbdg.org



RAIN BARREL

<http://www.goodideasinc.com/products/rain-barrels/rain-wizard-50/>

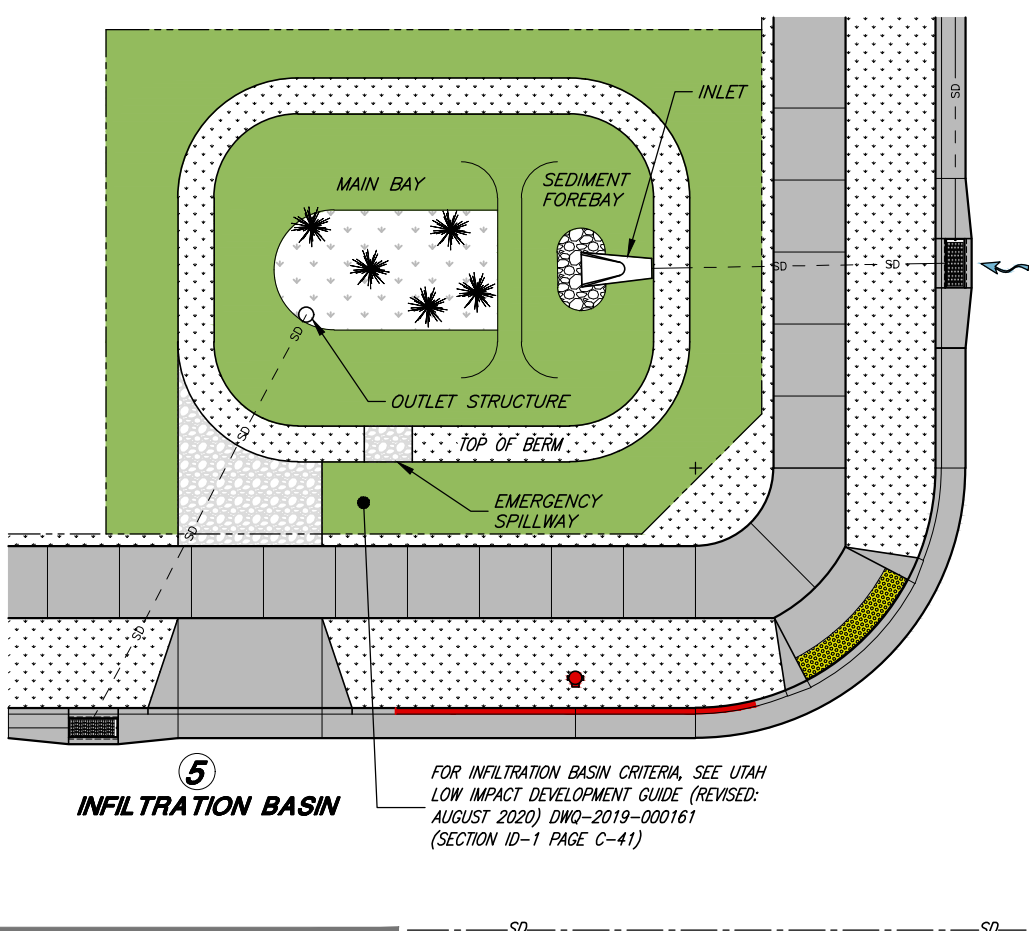
FOR PERVIOUS SURFACES SEE UTAH LOW IMPACT DEVELOPMENT GUIDE (REVISED: AUGUST 2020) DWQ-2019-000161 (SECTION PS-1 PAGE C-36)



PERMEABLE PAVER

From Smith, D. 2006. *Permeable Interlocking Concrete Pavement—selection design, construction and maintenance. Third Edition.* Interlocking Concrete Pavement Institute. Herndon, VA

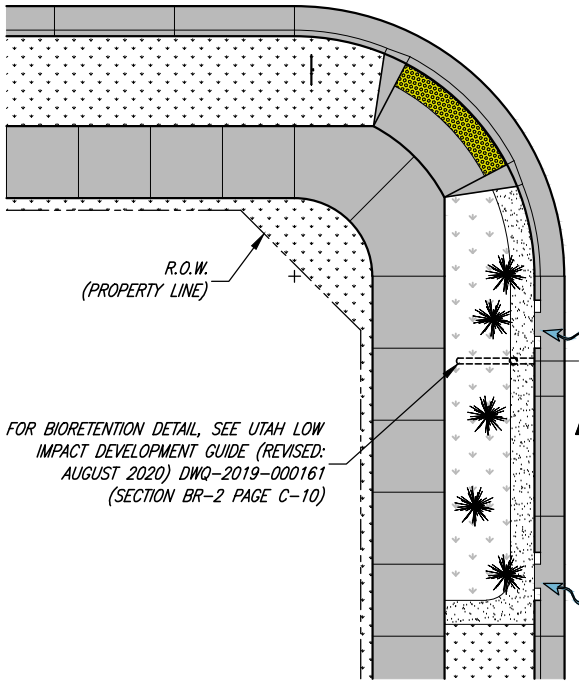
FOR RAIN BARREL SEE UTAH LOW IMPACT DEVELOPMENT GUIDE (REVISED: AUGUST 2020) DWQ-2019-000161 (SECTION HR-1 PAGE C-62)



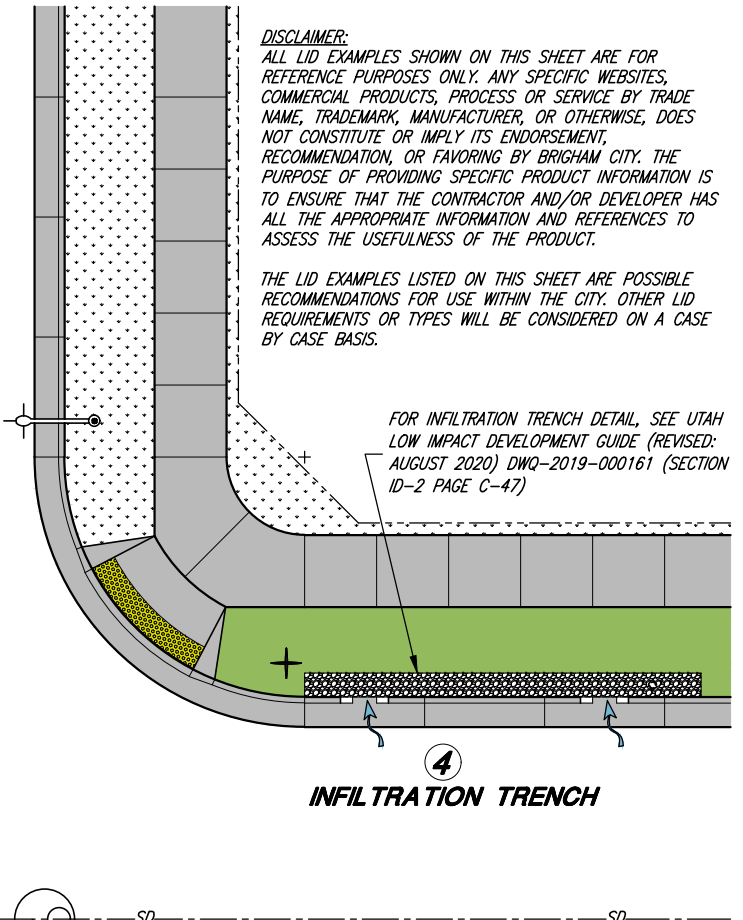
5 INFILTRATION BASIN

FOR INFILTRATION BASIN CRITERIA, SEE UTAH LOW IMPACT DEVELOPMENT GUIDE (REVISED: AUGUST 2020) DWQ-2019-000161 (SECTION ID-1 PAGE C-41)

STANDARD LOCAL STREET SECTION



1 BIORETENTION CELL



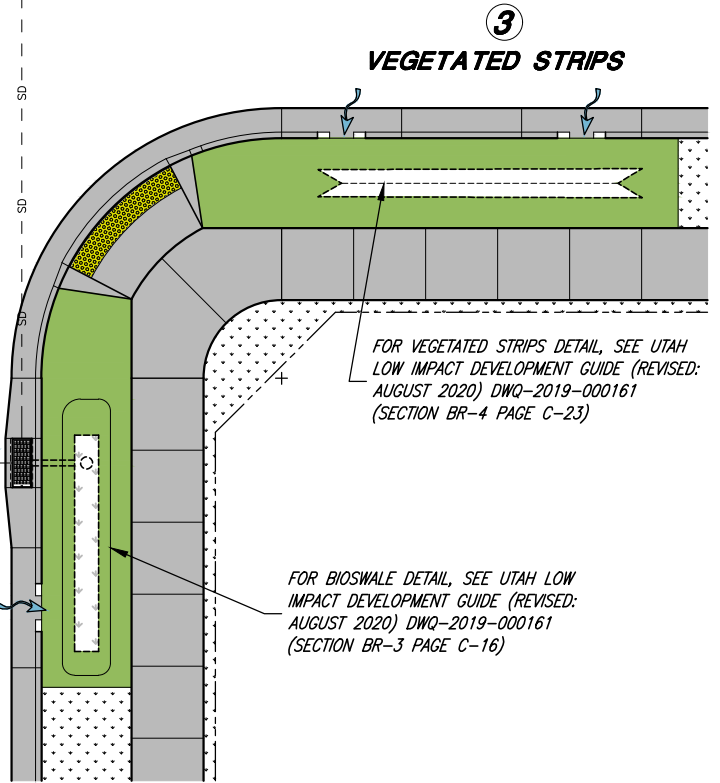
4 INFILTRATION TRENCH

DISCLAIMER:
ALL LID EXAMPLES SHOWN ON THIS SHEET ARE FOR REFERENCE PURPOSES ONLY. ANY SPECIFIC WEBSITES, COMMERCIAL PRODUCTS, PROCESS OR SERVICE BY TRADE NAME, TRADEMARK, MANUFACTURER, OR OTHERWISE, DOES NOT CONSTITUTE OR IMPLY ITS ENDORSEMENT, RECOMMENDATION, OR FAVORING BY BRIGHAM CITY. THE PURPOSE OF PROVIDING SPECIFIC PRODUCT INFORMATION IS TO ENSURE THAT THE CONTRACTOR AND/OR DEVELOPER HAS ALL THE APPROPRIATE INFORMATION AND REFERENCES TO ASSESS THE USEFULNESS OF THE PRODUCT.

THE LID EXAMPLES LISTED ON THIS SHEET ARE POSSIBLE RECOMMENDATIONS FOR USE WITHIN THE CITY. OTHER LID REQUIREMENTS OR TYPES WILL BE CONSIDERED ON A CASE BY CASE BASIS.



2 BIOSWALE



3 VEGETATED STRIPS



BRANDON KENT JONES
No. 5148758
PROJECT ENGINEER
11/28/2023
DATE

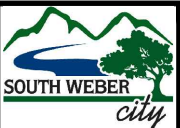
REV.	DATE	APPR.

SCALE:
N. T.S.

DESIGNED BKJ
DRAWN BEB
CHECKED BKJ



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SOUTH WEBER CITY CORPORATION
PUBLIC WORKS - LID (LOW IMPACT DEVELOPMENT) STANDARDS
GENERAL LID (LOW IMPACT DEVELOPMENT) EXAMPLES

SHEET:
LID1
OF 34 SHEETS
0

SUBDIVISION PLAT REQUIREMENTS			
	PLAT NOTES	PRELIM. PLAT	FINAL PLAT
1	PLAT TO SHOW ALL PHASES & FUTURE DEVELOPMENT	X	
2	PLAT PHASE BEING SUBMITTED/CONSTRUCTED		X
3	VICINITY MAP (SUBD. LOCATION)	X	X
4	NAME OF THE SUBDIVISION	X	X
5	TRUE NORTH ARROW	X	X
6	DATE	X	X
7	PLAT LEGEND	X	X
8	SECTION, TOWNSHIP, RANGE	X	X
9	NAMES OF DEVELOPER(S)	X	X
10	SUBDIVISION BOUNDARY DESCRIPTION	X	X
11	ADJOINING LAND OWNER(S)	X	X
12	TOTAL ACREAGE OF DEVELOPMENT	X	X
13	SURVEY NARRATIVE		X
14	BASIS OF BEARINGS	X	X
15	TIES TO TWO SECTION CORNERS WITH BEARINGS & DISTANCES	X	X
SIGNATURE BLOCKS FOR:			
16	COUNTY RECORDER		X
17	OWNER DEDICATION		X
18	CITY PLANNER/LAND USE AUTHORITY		X
19	CITY ENGINEER		X
20	MAYOR		X
21	CITY RECORDER		X
22	CITY ATTORNEY		X
23	SURVEYOR'S CERTIFICATE		X
MEASUREMENTS & DIMENSIONS			
24	SCALE, GRAPHIC SCALE	X	X
25	LENGTHS	X	X
26	ANGLES & BEARINGS	X	X
CURVE DATA			
27	RADIUS, CENTRAL ANGLE, TANGENTS, ARC LENGTH	X	X
28	BEARING DIMENSIONS FOR ALL LOT LINES	X	X
29	SQ FT OF EACH LOT	X	X
30	SURVEY MONUMENTS	X	X
31	PUBLIC LANDS & STREETS IDENTIFIED	X	X
32	RIGHT-OF-WAY LINES	X	X
33	IDENTIFY SPECIFIC DEDICATIONS (ROADS, PARCELS, ETC.)	X	X
34	WIDTHS/LOCATIONS OF STREETS & PUBLIC PROPERTIES	X	X
35	STREET NAMES AND/OR COORDINATE NUMBERS	X	X
36	SHOW AND LABEL ALL EASEMENTS	X	X
37	NOTES & RESTRICTIONS	X	X
38	SHOW "R" ON ALL RESTRICTED LOTS	X	X
39	SPECIALIZED DEVELOPMENT STANDARDS	X	X
40	CCR'S WHERE APPLICABLE	X	X
41	SHOW SPECIAL UTILITIES AND DISTRICTS	X	X
42	OTHER RESTRICTIVE LANGUAGE, TERMS, RESTRICTIONS, CONDITIONS	X	X
43	EASEMENT APPROVAL (AS APPLICABLE)	X	X
44	NEW LOT ADDRESSES (ASSIGNED BY THE CITY)	X	X
45	DRINKING WATER SOURCE PROTECTION ZONES	X	X
46	FEMA FLOOD ZONES, FAULT, DEBRIS FLOW OR OTHER GEOLOGICAL HAZARD SETBACKS	X	X

GENERAL NOTE:
1. THIS SHEET (DEV1) IS INTENDED AS AN EXAMPLE, TO GIVE A GRAPHICAL REPRESENTATION OF THE MAIN ITEMS TO BE INCLUDED ON A PLAT. IT IS NOT INTENDED TO BE A COMPLETE REPRESENTATION OF ALL ITEMS THAT MAY BE NEEDED ON A PLAT.
2. THE BLUE CIRCLED ITEMS ARE REFERENCED ON THIS SHEET. THE BLACK CIRCLED ITEMS ARE NOT REPRESENTED.

BRANDON KENT JONES
No. 5148758
PROJECT ENGINEER
DATE 11/28/2023

