



CONSTRUCTION NOTES:

ADJUST MANHOLE COVER & FRAME TO NEW FINISH GRADE, PER STD DWG C-2.1.5.

CONSTRUCT NEW PCC VALLEY GUTTER PER STD. DRAWING C-5.1.2

CONSTRUCT LINEAR CURB RAMP SINGLE ADJACENT, PER STD DWG C-5.3.8. MATCH EXISTING SIDEWALK WIDTH, LINE & GRADE

CONSTRUCT PCC CURB & GUTTER TYPE 1, PER STD DRAWING C-5.1.3

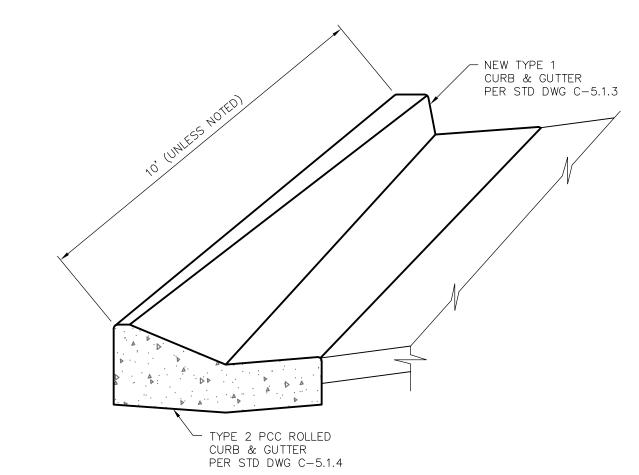
CONSTRUCT PCC CURB & GUTTER TYPE 2, PER STD DRAWING C-5.1.4

CONSTRUCT PCC CURB TRANSITION PER DETAIL 1, SHT C23

RELOCATE EXISTING FENCE AS REQUIRED FOR NEW CURB RAMP CONSTRUCTION.

RELOCATE EXISTING SIGN & POST, PER STD. DWG C-5.4.2

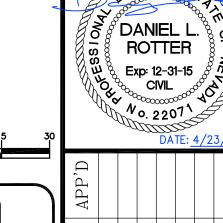
	CURVE TABLE									
CURVE	DELTA	RADIUS	LENGTH	TANGENT						
C1	90 ° 10'56"	10.00	15.74	10.03						
C2	62 ° 10'55"	10.00	10.85	6.03						
С3	304 ° 21'49"	50.00	265.61	26.38						
C4	62 ° 10'55"	10.00	10.85	6.03						
C5	90 ° 22'47"	10.00	15.77	10.07						
	LINE TABLE									
LINE	BEARING	G LEN	<i>IGTH</i>							
L1	16.53	S01°00	O'36"W							
L2	16.26	N01°0	N01°00'36"E							





CARSON WORKS **PUBLIC** DANIEL L. ROTTER



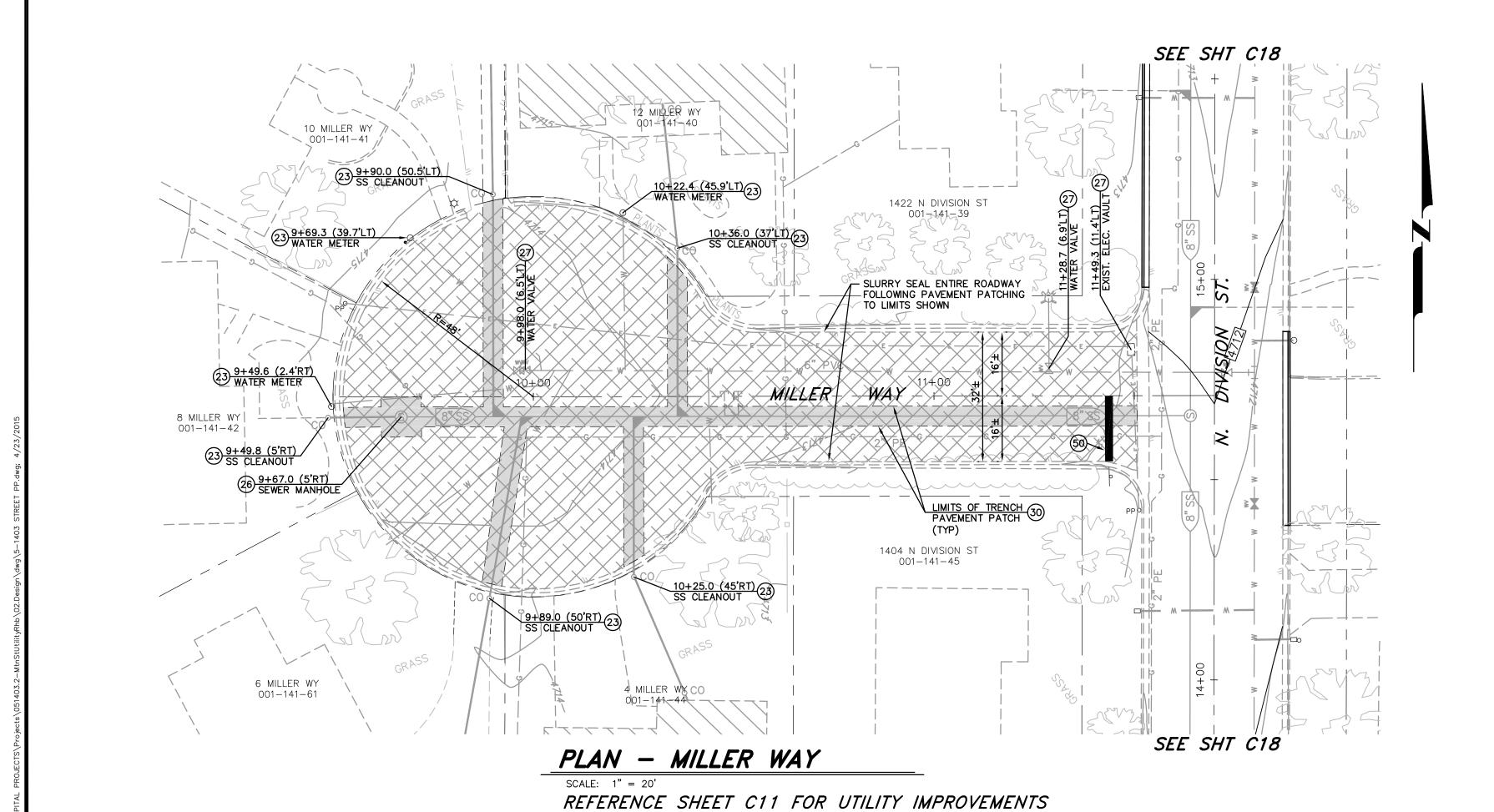


CITY DEPARTMENT

Know what's below.
Call before you dig.

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		40 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9				DESCRIP
4716	TOP OF 0.3% CURB LT	10+44.2 4715.73 TC END TYPE 2 10+53.1 4715.78 TC BEGIN TYPE BEGIN TYPE 4715.73 TC	4716			7. DATE
1714	MAINTAIN P SLOPE AT I	OSITIVE FLOWLINE AREA	4714			REV
4716	O:00: APPROX. O:00: GRADE O:00: PROPOSED FINISH — CRADE O:00: CRA	EXIST. (34) (34) (37) (37) (37) (37) (37) (37) (37) (37	4716			EET N PROJECT 403 NY NY PROFILE 11+00
4714	LINE "HS"	6'	4714			TAIN STRE BILITATION ST No. 5.1 SIDE WA PLAN &
		10 PE 10 C&C (04)				MOUN REHA PROJEC HILL DWAY 9+00
4716	TOP OF OF CURB F	10+69.3 10+69.3 10+69.3 10+69.3 10+69.3 10+69.3 10+69.3 10+69.3	4716			UTILITY ROAI STA
4714	9+50 PROFILE - HILL.	10+50 11+00 SIDE WAY	4714			SHEET C23
	SCALE: 1" = 20' HORIZ. 1" = 2' VERT.					40

REFERENCE SHEET C10 FOR UTILITY IMPROVEMENTS



CONSTRUCTION NOTES:

- LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING AC PAVEMENT SHALL BE PER PAVEMENT PATCH, STD DRAWING C-5.1.6

PROTECT-IN-PLACE

ADJUST MANHOLE COVER & FRAME TO NEW FINISH GRADE, PER STD DWG C-2.1.5.

ADJUST WATER VALVE BOX & COVER TO NEW FINISH GRADE, PER STD. DWG C-3.1.4.

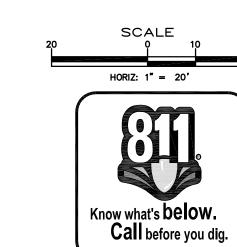
CONSTRUCT LINEAR CURB RAMP SINGLE ADJACENT, PER STD DWG C-5.3.8. MATCH EXISTING SIDEWALK WIDTH, LINE & GRADE

PAINT 24" WIDE SOLID WHITE STOP BAR, PER STD. DWG C-5.4.3

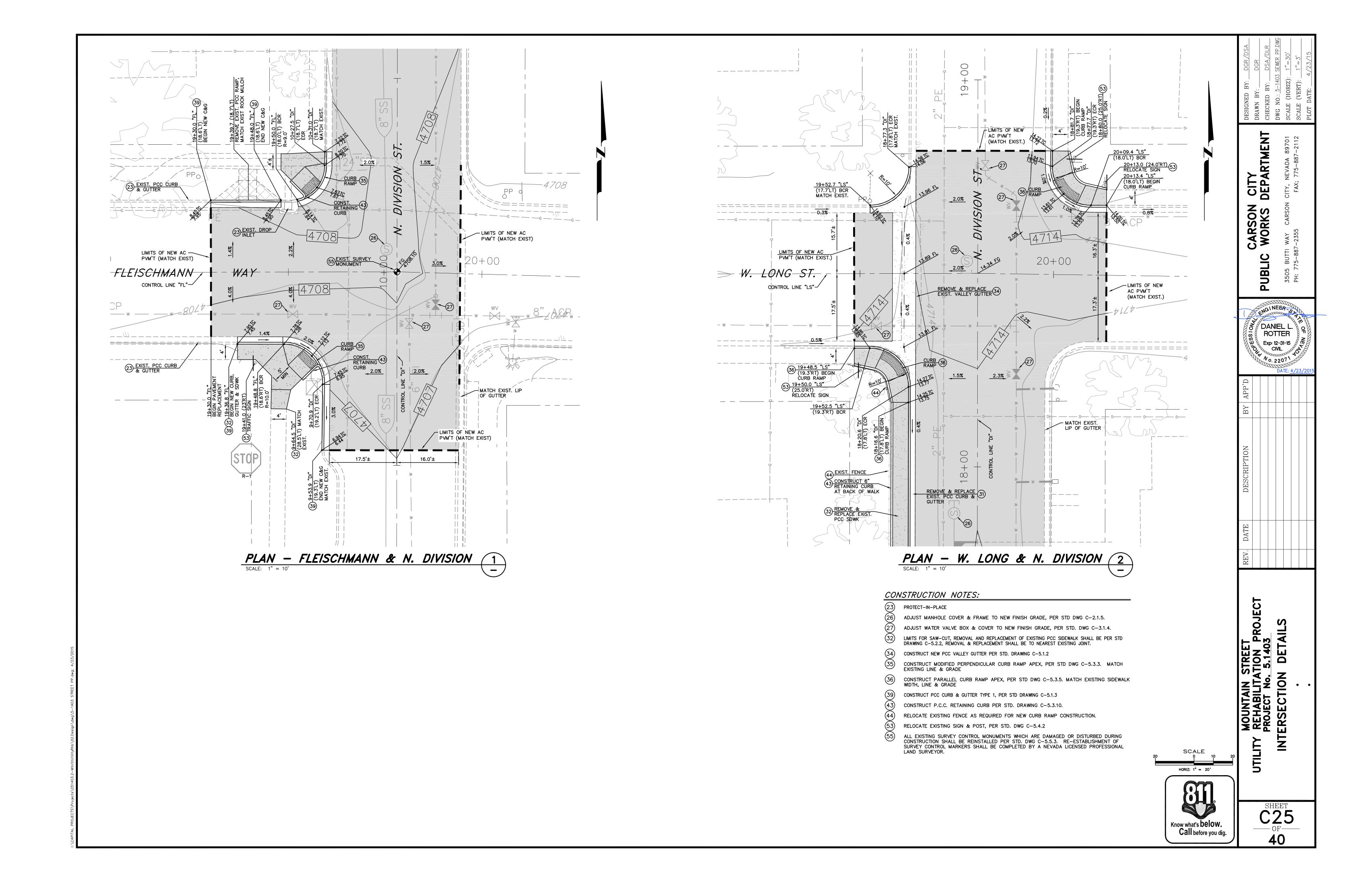
WAY PROJECT

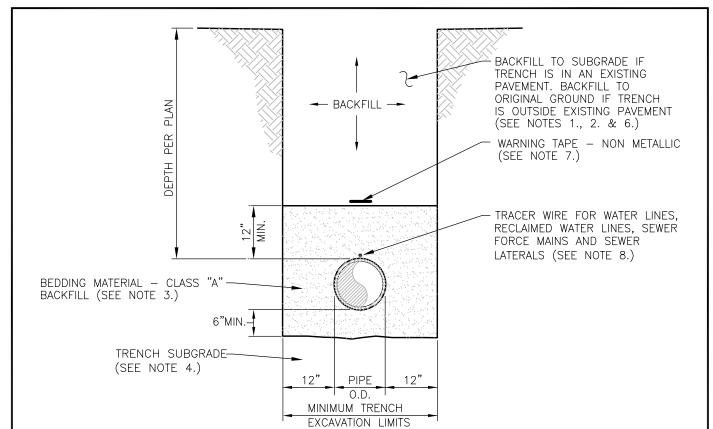
UTILITY PINE

C24 OF 40



CITY DEPARTMENT CARSON WORKS **PUBLIC** DANIEL L. ROTTER Exp: 12-31-15

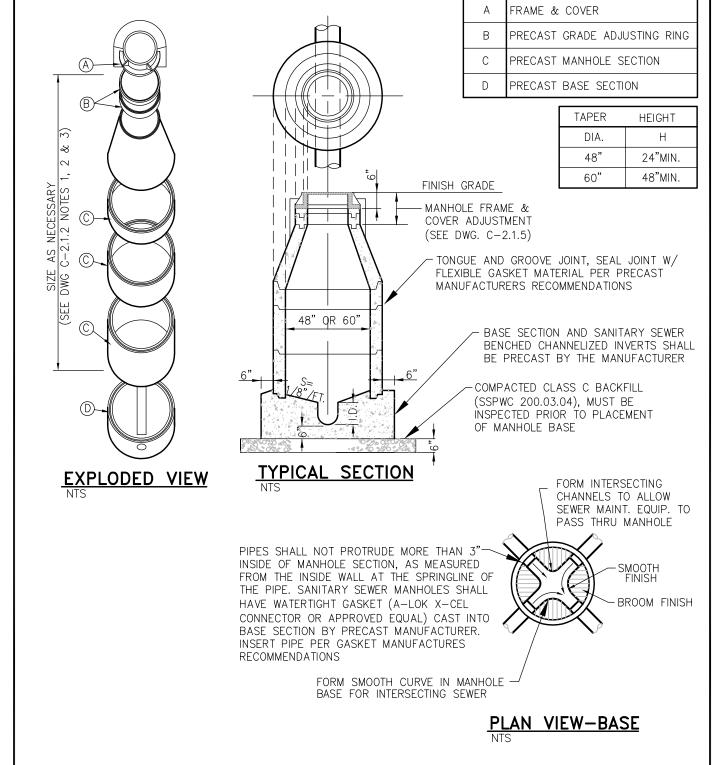


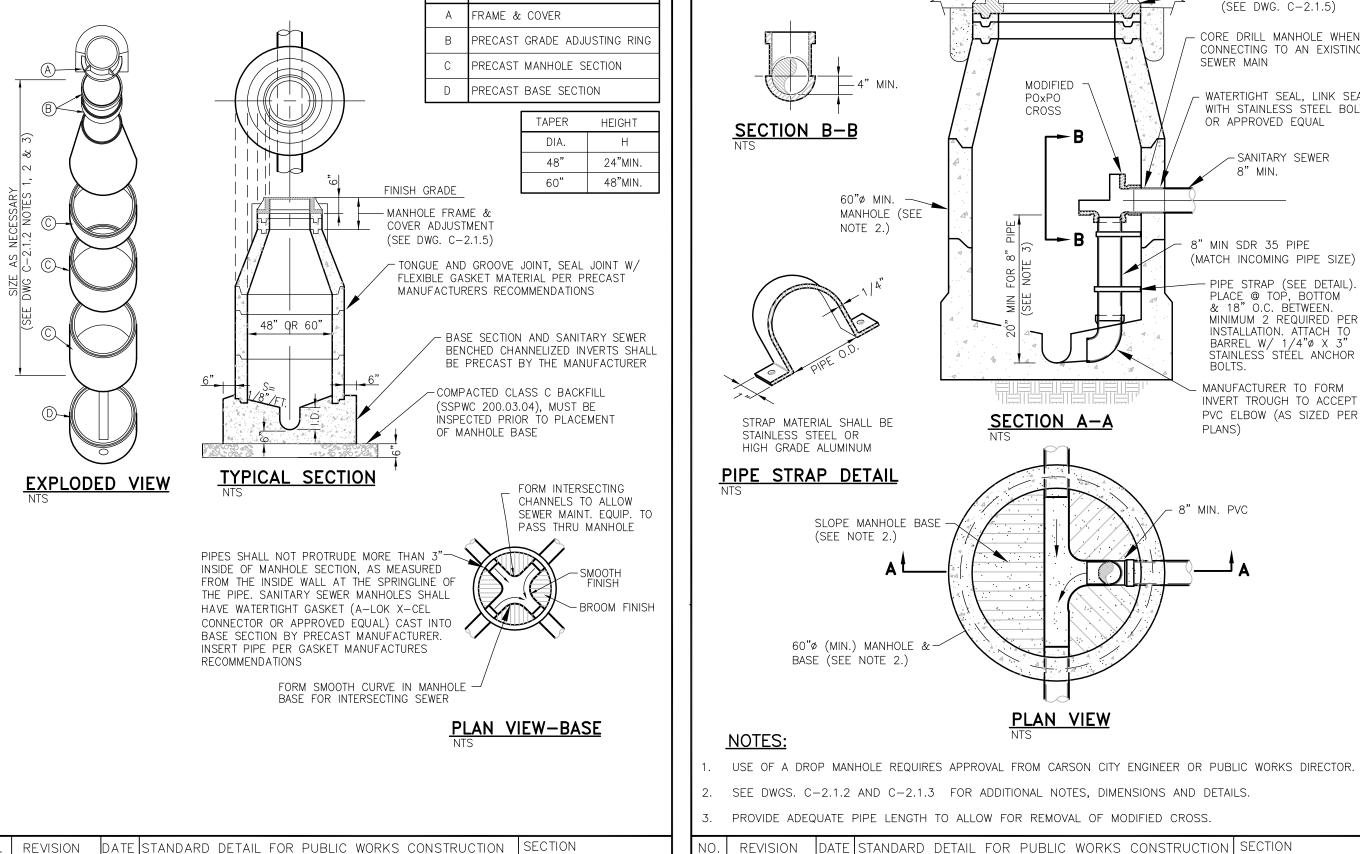


TYPICAL TRENCH SECTION

- . WATER DENSIFIED BACKFILL AND TUNNELING SHALL BE BY SPECIAL PROVISION ONLY.
- BACKFILL SHALL CONFORM TO THE REQUIREMENTS OF CLASS E BACKFILL AS SPECIFIED IN SUBSECTION 200.03.06 OF THE SSPWC. MATERIAL SHALL BE PLACED IN LIFT THICKNESS SPECIFIED IN SUBSECTION 305.10 OF THE SSPWC AND DENSIFIED TO 90% RELATIVE COMPACTION.
- BEDDING SHALL CONFORM TO THE REQUIREMENTS OF CLASS A BACKFILL AS SPECIFIED IN SUBSECTION 200.03.02 OF THE SSPWC. MATERIAL SHALL BE DENSIFIED TO 90% RELATIVE COMPACTION.
- PLANS SHALL INCLUDE A DETAIL FOR SUBGRADE STABILIZATION INCLUDING BACKFILL MATERIAL, STRUCTURAL GEOTEXTILE FILTER FABRIC AND MODIFIED CUTOFF COLLARS WHEN POTENTIAL FOR UNSTABLE SUBGRADES EXIST, SUBJECT TO THE APPROVAL OF THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
- FOR TRENCHES IN ROADWAY SECTION, SEE PAVEMENT PATCH DETAIL (DWG. No. C-5.1.6).
- FOR THE PURPOSE OF PAYMENT; EXCAVATION AND BACKFILL QUANTITIES ARE BASED ON THESE STANDARD DRAWINGS, AND NO ADDITIONAL COMPENSATION WILL BE MADE. SHORING OR SLOPED CUT SLOPES MAY BE NECESSARY, BUT THERE WILL BE NO ADDITIONAL PAYMENT. ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.
- PLACE NON METALLIC WARNING TAPE 1 FOOT ABOVE ALL BURIED PIPES AND CONDUITS.
- TRACER WIRE SHALL BE 12 GAUGE (MINIMUM THICKNESS) INSULATED SOLID COPPER OR COPPER-CLAD STEEL CORE WIRE. INSULATION SHALL BE 30 MIL HDPE. PLANS SHALL SPECIFY WIRE STRENGTH AND INSULATION THICKNESS FOR BORING APPLICATIONS. SPLICES SHALL BE CONNECTED BY WIRE NUTS, SEALED WITH AQUA SEAL OR SILICON FILLED, AND DOUBLE WRAPPED WITH U/L LISTED ELECTRICAL TAPE. TRACER WIRE COLOR SHALL BE, BLUE FOR WATER, PURPLE FOR RECLAIMED WATER, AND GREEN FOR SEWER.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			TDENCH EVENVATION	CARSON CITY
			TRENCH EXCAVATION	DRAWING NO.
			AND BACKFILL	C-1.2.1 (305)
APPRO'	VED BY:	7/09	AND BACKFILL (MODIFIED)	7/2009





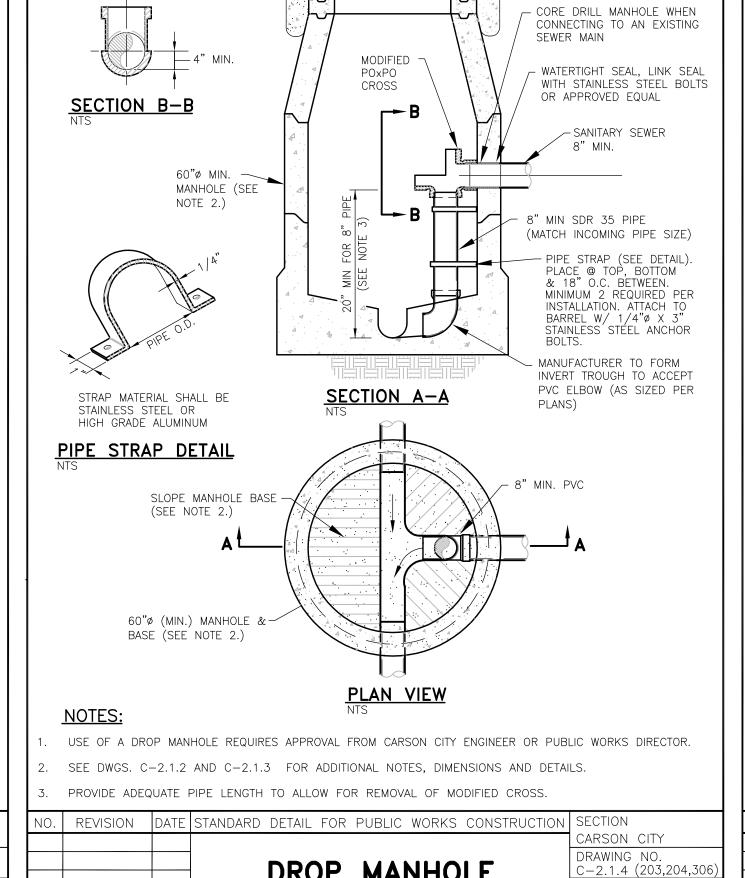
ITEM

CARSON CITY

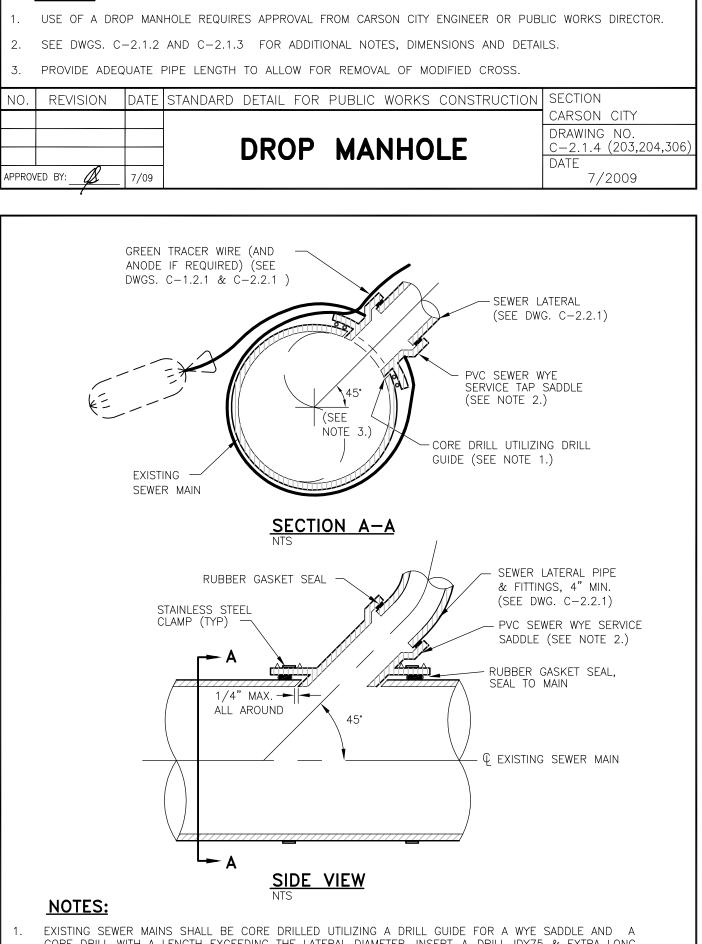
7/2009

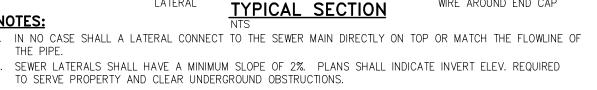
DRAWING NO.

CONCRETE COLLAR (SEE DWG C-3.1.4)



--- MANHOLE FRAME & COVER





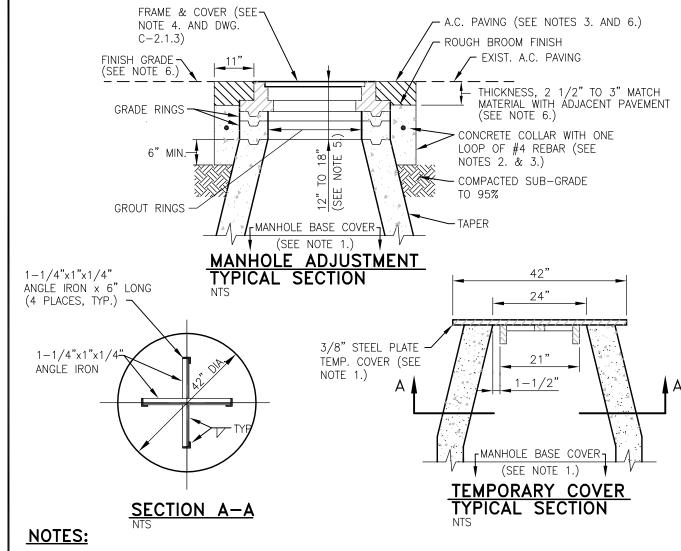
- MAY BE SUBSTITUTED FOR SDR35 TO MEET NDEP BSDW SEPARATIONS. 4. LATERAL SHALL BE PERPENDICULAR TO THE MAIN AND EXTEND TO PROPERTY LINE. WHEN SHOWN ON PLANS TO INSTALL BUILDING SEWER PRIOR TO PUBLIC UTILITIES, INSTALLATION OF BUILDING SEWER IS EXTENDED TO
- INSTALLED AT EASEMENT LINE. 5. USE OF SEWER SERVICE TAP SADDLE CONNECTIONS SHALL NOT BE ALLOWED FOR NEW SEWER MAIN CONSTRUCTION. WHEN A TAP SADDLE CONNECTION IS TO BE USED ON AN EXISTING SEWER MAIN, IT SHALL BE
- 6. DISCONTINUANCE OF USE OF AN EXISTING SEWER LATERAL REQUIRES ABANDONMENT OF THE LATERAL. CUT, REMOVE 1 FOOT OF EXISTING LATERAL AND CAP BOTH ENDS OF THE EXISTING SEWER LATERAL TO BE
- . PROPERTY OWNER SHALL BE RESPONSIBLE FOR OPERATION, MAINTENANCE AND REPAIR OF THE SEWER LATERAL WITHIN THE PUBLIC RIGHT-OF-WAY PER CCMC 12.05.050.5.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
			SEWER LATERAL	DRAWING NO. C-2.2.1 (203,306)
APPRO	VED BY: B	07/09		DATE 7/2009

CORE DRILL WITH A LENGTH EXCEEDING THE LATERAL DIAMETER, INSERT-A-DRILL IDY75 & EXTRA LONG HOLE SAW OR APPROVED EQUAL. DIAMOND CORE BITS SHALL BE USED ON NON-PVC MAINS. SERVICE TAP SADDLES SHALL BE PVC SEWER WYE SADDLES. A ROMAC STYLE "CB" SEWER SADDLE OR /1

APPROVED EQUAL MAY BE USED ON EXISTING SEWER MAINS ONLY WHEN MAIN IS NOT PVC. SADDLES SHALL BE INSTALLED AT 45 DEGREES TO MAIN AS SHOWN IN SECTION A-A. IN NO CASE SHALL A LATERAL CONNECTING TO THE EXISTING SEWER MAIN BE LOCATED DIRECTLY ON TOP OF THE PIPE, NOR SHALL IT MATCH THE FLOWLINE OF THE PIPE.

NO. | REVISION | DATE STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION | SECTION CARSON CITY SEWER SERVICE DRAWING NO. (203,306) TAP SADDLE APPROVED BY: 7/2009

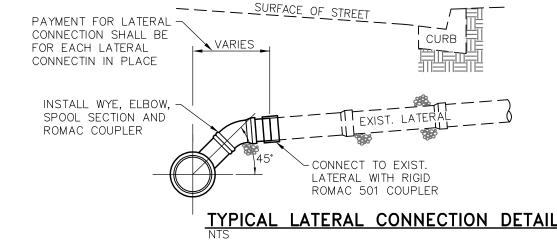


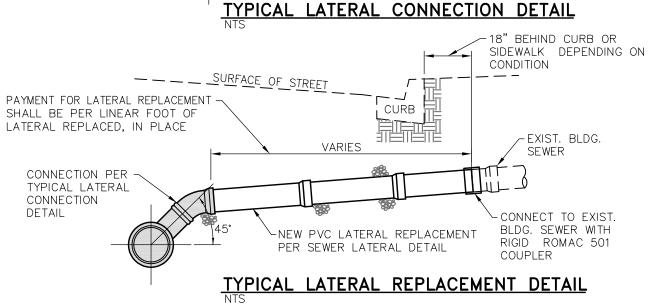
INSTALL TEMPORARY COVER WITH CONE INSTALLATION WHEN INSTALLING NEW MANHOLE OR PRIOR TO REMOVING EXISTING FRAME & COVER AND GRADE RINGS TO ADJUST TO FINISH GRADE. INSTALL COVER OVER MANHOLE BASE TO PREVENT DEBRIS FROM ENTERING SEWER SYSTEM. THE MANHOLE BASE COVER SHALL BE IN PLACE PRIOR TO PERFORMING ANY ADJUSTMENTS OR GROUTING AND SHALL REMAIN IN PLACE WHILE ADJUSTMENTS OR GROUTING ARE BEING PERFORMED. REMOVE BASE COVER UPON ADJUSTMENT APPROVAL BY

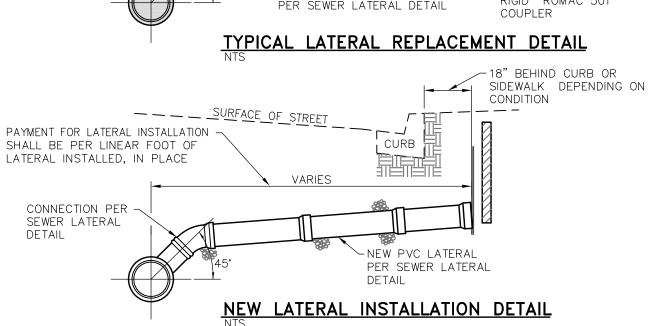
- CONCRETE SHALL CONFORM TO THE SSPWC SECTION 202.01.12. REBAR SHALL BE USED ONLY WHEN THE MANHOLE IS LOCATED OUTSIDE PAVED AREAS.
- THE CONCRETE COLLAR SHALL BE LEFT 2 1/2 INCHES TO 3 INCHES BELOW FINISHED ASPHALT SURFACE. APPLY AN APPROVED TACK COAT (CONFORMING TO THE SSPWC SECTION 316) AND FILL VOID BETWEEN ADJACENT PAVEMENT AND FRAME WITH TYPE 3 AC 20 PAVING (CONFORMING TO THE SSPWC SECTION 320). APPLY FOG SEAL (CONFORMING TO SSPWC SECTION 317) TO THE ASPHALT SURFACE. ALL CUTS IN PAVING SHALL BE STRAIGHT AND EVEN. EXCEPTION: WHEN STRUCTURE NOT LOCATED IN ASPHALT PAVEMENT OR LOCATED IN AN UNPAVED AREA, EXTEND CONCRETE TO FINISH GRADE.
- INSTALL NEW FRAME & COVER UNLESS OTHERWISE SHOWN ON THE PLANS OR SPECIAL CONDITIONS. FRAME & COVER SHALL BE SET FLUSH WITH FINISH GRADE UNLESS OTHERWISE NOTED.
- FOR NEW MANHOLE INSTALLATIONS, DISTANCE FROM COVER TO CONE SHALL BE 12 INCHES MINIMUM AND 15 INCHES MAXIMUM FOR MINOR RESIDENTIAL STREETS AND 15 INCHES MINIMUM AND 18 INCHES MAXIMUM FOR ALL OTHER STREETS. FOR ADJUSTING EXISTING FRAME & COVERS THE DISTANCE FROM COVER TO CONE SHALL NOT EXCEED 18 INCHES.
- WHEN LOCATED IN NDOT RIGHT-OF-WAY, CONCRETE COLLAR SHALL CONFORM TO NDOT STANDARD PLAN SHT R-4.7.3 AND STANDARD SPECIFICATION 609.

	NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
					CARSON CIT
				MANHOLE FRAME & COVER	DRAWING NO C-2.1.5 (2
	APPRO\	 VED BY: <u>&</u>	7/09	ADJUSTMENT	DATE 7/200
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LATERAL CONNECTION DETAIL

SEWER LATERALS BEING REPLACED SHALL BE INSTALLED 1' (FOOT) MINIMUM BELOW AND 4' (FEET) MINIMUM HORIZONTALLY FROM WATER MAINS AND SERVICES. WHEN A SEWER LATERAL REPLACEMENT MUST BE LOCATED LESS THAN 4' (FEET) HORIZONTALLY FROM A WATER MAIN OR SERVICE LATERAL, OR WHEN A SEWER LATERAL REPLACEMENT MUST BE LOCATED LESS THAN 1' (FOOT) BELOW THE WATER MAIN OR SERVICE LATERAL, THE CONTRACTOR SHALL SUBSTITUTE C900, CL100 DR25 PVC PIPE FOR SDR35 PVC PIPE FOR THE SEWER LATERAL, AND PROVIDE EXTERNAL JOINT SEALANT AT ALL JOINTS WHERE MINIMUM SEPARATION IS NOT MET. APPROVED EXTERNAL JOINT SEALANT PRODUCTS INCLUDE "PRIMELINE PRODUCTS" EXTERNAL PIPE JOINT SEAL, "POWER WRAPS" AQUAWRAP OR APPROVED EQUAL.

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CARSON WORKS

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ENGINEER.

ØDANIEL L.

ROTTER

Exp: 12-31-15

CIVIL

No. 22071

MANHOLE (SEE DWG. C-2.1.3) ECCENTRIC GASKETED PVC SEWER TRANSITION FITTING, SIZE AS REQ'D. (SEE NOTE 2.) MIN. MIN. SEWER - SEWER PVC ¬ \ MAIN MIN. FLOW SEWER COUPLING (SEE SEWER COUPLING (SEE NOTES). CENTER ON SPLICE. NOTES). CENTER ON SPLICE. SIZE ÁS REQUIRED. SIZE AS REQUIRED. TYPICAL SEWER LINE & MANHOLE TRANSITION

- SEWER COUPLINGS SHALL BE USED AT LOCATIONS WHERE TWO PIPES OF EQUAL NOMINAL SIZE AND EQUAL OR DIFFERENT DIAMETERS ARE BEING JOINED. (ie. 8 INCH SDR PVC TO 8 INCH SDR PVC, OR 8 INCH PVC TO 8 INCH CLAY.)
- ECCENTRIC GASKETED PVC SEWER TRANSITION FITTINGS SHALL BE USED AT ALL LOCATIONS WHERE TWO PIPES OF UNEQUAL NOMINAL SIZES ARE TO BE JOINED. (ie. 6 INCH PIPE TO 8 INCH PIPE)
- GASKETED PVC SEWER FITTINGS, SEWER CLAMP COUPLINGS OR SEWER STRAIGHT COUPLINGS SHALL BE USED AT LOCATIONS WHERE TWO PIPES OF EQUAL SIZE AND DIAMETER ARE BEING JOINED. (ie. 8 INCH SDR PVC TO 8 INCH SDR PVC, 8 INCH C900 PVC TO 8 INCH C900 PVC)
- SEWER TRANSITION COUPLINGS SHALL BE USED AT LOCATIONS WHERE TWO PIPES OF EQUAL NOMINAL SIZE AND UNEQUAL DIAMETER ARE BEING JOINED. (ie. 8 INCH SDR PVC TO 8 INCH CLAY, 8 INCH SDR PVC TO 8 INCH C900 PVC) ECCENTRIC COUPLINGS WHICH MATCH PIPE INVERTS SHALL BE USED AT LOCATIONS WHERE THE EXISTING DOWNSTREAM PIPE INNER DIAMETER IS LESS THAN THE UPSTREAM PIPE INNER DIAMETER
- SEWER CLAMP COUPLING BODY AND CLAMP BOLTS, WASHERS & NUTS SHALL BE 304 STAINLESS STEEL, CLAMP COUPLING LENGTH SHALL BE 12 INCH MINIMUM FOR 8 INCH PIPE AND LARGER, ROMAC STYLE LSS1, LSS2, LSS3 FOR SEWER OR APPROVED EQUAL.
- SEWER STRAIGHT AND TRANSITION COUPLINGS SHALL BE RIGID TYPE, DUCTILE IRON BODY AND END RINGS WITH HIGH STRENGTH LOW ALLOY STEEL NUTS & BOLTS, ROMAC STYLE 501 FOR SEWER OR APPROVED EQUAL. COAT ALL EXPOSED BARE METAL, NUTS AND BOLTS WITH COLD-APPLIED WATER BASED ENAMEL OR BLACK ASPHALT.
- ECCENTRIC COUPLINGS FOR MATCHING INVERTS OF NEW PIPE FLOWING INTO EXISTING PIPE SHALL BE ROMAC OR FERNCO ECCENTRIC COUPLINGS OR APPROVED EQUAL. COAT ALL EXPOSED BARE METAL, NUTS AND BOLTS ON ROMAC COUPLINGS WITH COLD-APPLIED WATER BASED ENAMEL OR BLACK ASPHALT.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
			SEWER MAIN AND	DRAWING NO. C-2.1.6 (20)
APPRO	VED BY: 18.	7/09	LATERAL TRANSITIONS	DATE 7/2009

WATER TIGHT PLUG OR CAP Ib MAG. GROUNDING . WRAP 24" OF TRACER -ANODE CONNECTED TO WIRE AROUND CLEANOUT TRACER WIRE FOR IN BOX LATERALS WHICH CAN STANDARD WYE FITTING (SEE NOT BE INSTALLED NOTE 5.) **FASEMENT LINE** PERPENDICULAR TO THE S SHOWN ON PLAN MAIN (SEE DWG. C-1.2.1) SERVICE SADDLE TAP WYE CONNECTION (SEE NOTE 4.) FOR EXISTING MAINS ONLY (SEE NOTE 5.) LETTER "S" STAMPED OR CHISELED IN FACE OF CURB NOT LESS THAN 1-1/2" HIGH AND 3/16" DEEP. EASEMENT LINE - P.U.E. -PROPERTY LINE LINE LOCATION -4x4 REDWOOD -SEWER MAIN -BOX & LID (SEE POST FLUSH DWG. C-1.2.2) WITH F.G. (SEE 1-WAY CLEANOUT (SEE DWG. C-2.2 1/8 BEND -LATERAL SHALL BE PVC SDR35 IN R/W OR ESM'T (SEE NOTE 3. & 4.) 1/2" REBAR FROM -12" MIN. LENGTH → INVERT TO 12" BELOW STUB W/ WATER F.G. <u>DO NOT ATTACH</u> TIGHT PLUG OR TO 4x4 POST (SEE -WRAP TRACER WIRE 31b MAG. GROUNDING -NOTE 4.) (GREEN) AROUND MAIN, ANODE (SEE NOTE ABOVE) TAPE EVERY 5' ALONG WRAP 12" OF TRACER -LATERAL WIRE AROUND END CAP

MANHOLE

TYPE 1

CONTINUOUS TRACER WIRE (GREEN)

TAPED TO PIPE EVERY 5', NO SPLICES

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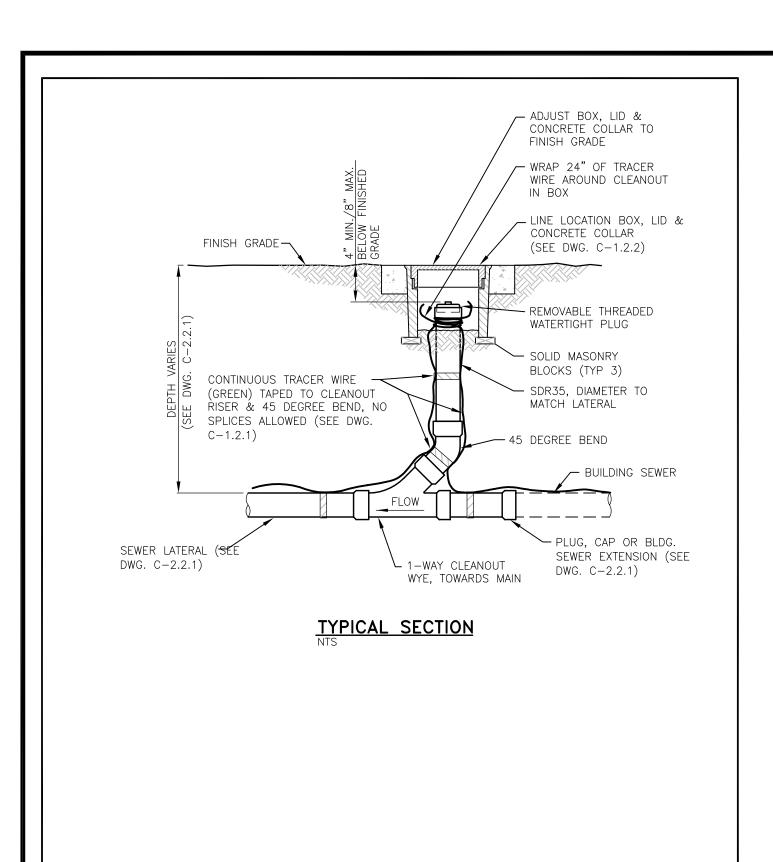
1. IN NO CASE SHALL A LATERAL CONNECT TO THE SEWER MAIN DIRECTLY ON TOP OR MATCH THE FLOWLINE OF

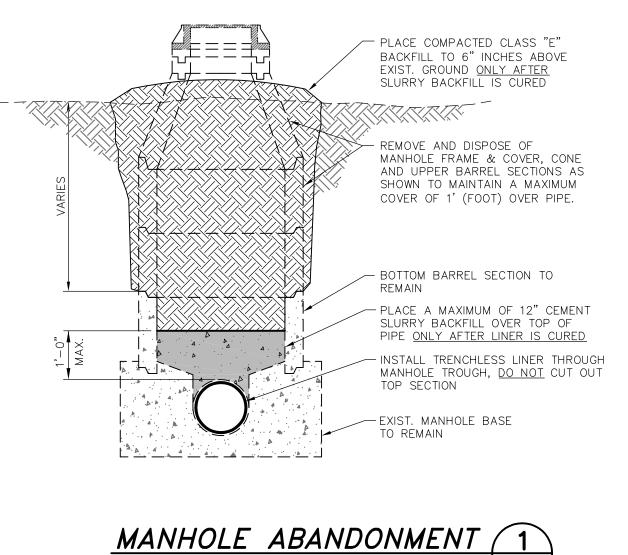
2. SEWER LATERALS SHALL HAVE A MINIMUM SLOPE OF 2%. PLANS SHALL INDICATE INVERT ELEV. REQUIRED 3. ALL JOINTS ON SEWER LATERAL PIPE WITHIN THE RIGHT-OF-WAY SHALL BE COMPRESSION TYPE. C900 PVC

UTILITY EASEMENT LINE AND STANDARD WATERTIGHT PLUG OR CAP, REDWOOD POST AND REBAR SHALL BE

A WYE SADDLE AND BE INSTALLED PER DWG. C-2.2.2.

ABANDONED WITHIN 6 INCHES OF THE SEWER MAIN. INSPECTION BY CARSON CITY SEWER UTILITY IS REQUIRED PRIOR TO BACKFILI



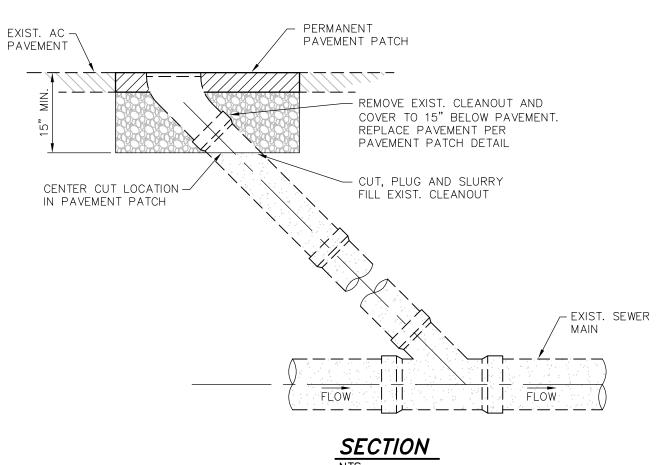


DETAIL

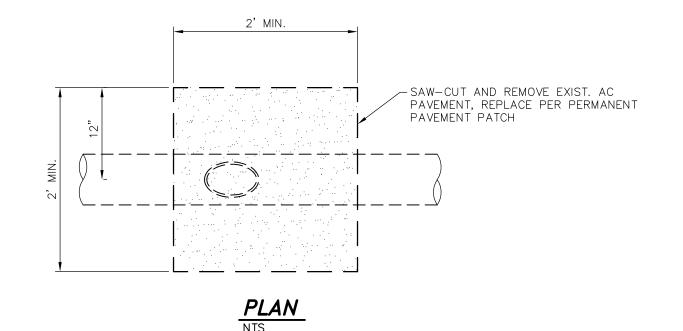
CARSON CITY DRAWING NO.

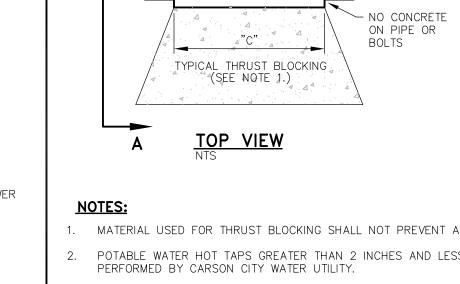
7/2009

- 1. CEMENT SLURRY BACKFILL SHALL CONFORM TO SECTION 202.02 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
- 2. CLASS "E" BACKFILL SHALL CONFORM TO SECTION 200.01. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND SHALL BE MECHANICALLY COMPACTED TO 90% COMPACTION, IN CONFORMANCE WITH SECTION 308.05 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.









MATERIAL SPECIFICATIONS

SHELL: 304 STAINLESS STEEL

BOLTS, WASHERS AND NUTS: NC ROLLED THREAD

GASKETS: VIRGIN SBR COMPOUNDED FOR WATER

FULL GASKET. 360° PIPE COVERAGE 150 PSI MIN. WORKING PRESSURE.

FLANGE: 304 STAINLESS STEEL OR HIGH TENSILE

DUCTILE (NODULAR) IRON, ASTM A536-80,

304 STAINLESS STEEL, 5/8" DIAMETER.

SERVICE. ASTM D2000-80MA 4AA607

LUGS: 304 STAINLESS STEEL

GRADE 65-45-12.

- MATERIAL USED FOR THRUST BLOCKING SHALL NOT PREVENT ACCESS TO THE BOLT ASSEMBLY. POTABLE WATER HOT TAPS GREATER THAN 2 INCHES AND LESS THAN 14 INCHES SHALL BE
- MINIMUM DISTANCE BETWEEN TAP SADDLE, COLLARS, JOINTS, SERVICE TAPS, ETC. SHALL BE 18 INCHES
- 4. SADDLE TO BE HYDROSTATICALLY PRESSURE TESTED BY THE CONTRACTOR, TO 150 PSI (MIN.) FOR A MINIMUM OF 5 MINUTES, WITNESSED BY CARSON CITY WATER UTILITY, PRIOR TO PERFORMING TAP.
- 5. REFERENCE "WATER GENERAL NOTES" DWG. C-3.1.1, FOR HOT-TAP SCHEDULING INFORMATION.

- CONCRETE CURB,

TYPE A SIDEWALK

GUTTER & SIDEWALK

REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			CARSON CITY
		TAPPING SLEEVE	DRAWING NO. C-3.1.3 (203,30
			DATE
D BY:	07/09		7/2009

*TAPPING SLEEVES IN THE 24" NOMINAL PIPE SIZE RANGE WITH 6" OR 8" FLANGES ARE 24" LONG (C-DIMENSION) AND HAVE 24" BOLTS.

**TAPPING SLEEVES IN THE 12" & 14" NOMINAL PIPE SIZE RANGE W/ 12" FLANGE ARE 24" LONG

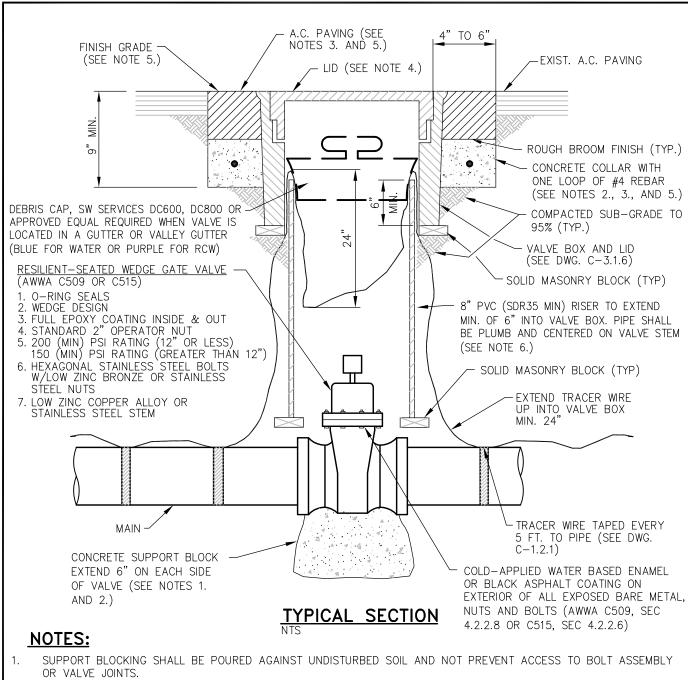
TYPICAL THRUST

SECTION A-A

BLOCK

AND HAVE 24 BOLTS.

→ (SEE NOTE 3.)



REVISION DATE STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION SECTION

APPROVED BY:

SEWER CLEANOUT

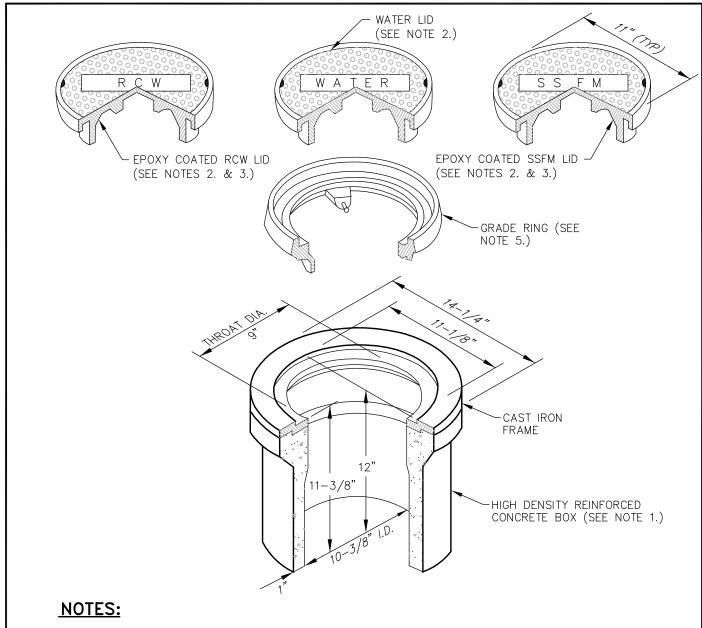
CONCRETE SHALL CONFORM TO THE SSPWC SECTION 337.10. REBAR SHALL ONLY BE USED WHEN THE VALVE BOX IS LOCATED OUTSIDE PAVED AREAS.

APPROVED TACK COAT (CONFORMING TO THE SSPWC SECTION 316) AND FILL VOID BETWEEN ADJACENT PAVEMENT AND FRAME WITH TYPE 3 PG 64-22 PAVING (CONFORMING TO THE SSPWC SECTION 320). APPLY FOG SEAL (CONFORMING TO THE SSPWC SECTION 317) TO THE ASPHALT SURFACE. ALL CUTS IN PAVING SHALL BE STRAIGHT AND EVEN. EXCEPTION: WHEN STRUCTURE NOT LOCATED IN ASPHALT PAVEMENT OR IN AN UNPAVED AREA, EXTEND CONCRETE TO FINISH GRADE.

THE CONCRETE COLLAR SHALL BE LEFT 2 1/2 INCHES - 3 INCHES BELOW FINISHED ASPHALT SURFACE. APPLY AN

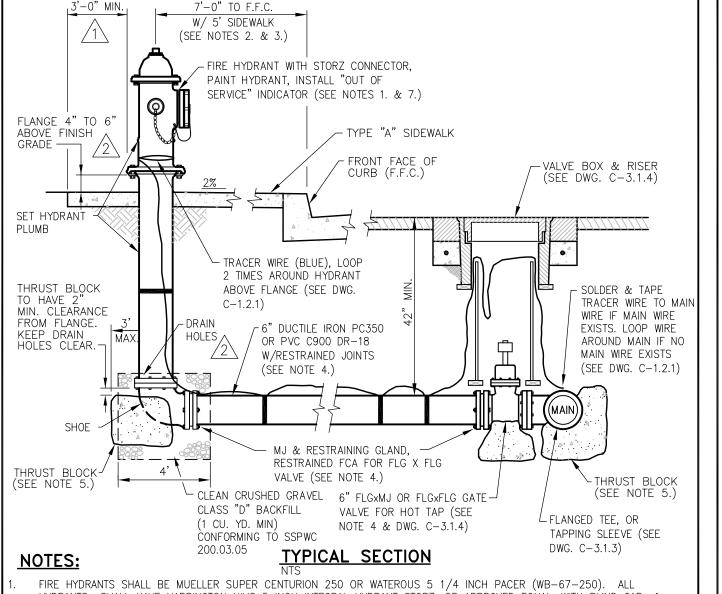
- LIDS SHALL BE SET FLUSH WITH FINISH GRADE UNLESS OTHERWISE NOTED. WHEN LOCATED IN NDOT RIGHT-OF-WAY, CONCRETE COLLAR SHALL CONFORM TO NDOT STANDARD PLAN SHT R-4.3.3 AND STANDARD SPECIFICATION 609.
- RISER COLOR SHALL BE BLUE, OR SAME COLOR AS MAIN FOR WATER APPLICATIONS, PURPLE FOR RECLAIMED WATER APPLICATIONS, AND GREEN FOR SANITARY SEWER APPLICATIONS. VALVES ON FIRE LINES SHALL BE UL/FM APPROVED AND MEET ALL APPLICABLE NFPA REQUIREMENTS

).	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
			GATE VALVE	DRAWING NO. C-3.1.4 (203,307
			GATE VALVE	DATE (203,307
ROVE	D BY:	07/09		7/2009



- 1. VALVE BOX AND LID SHALL BE H20 TRAFFIC RATED WITH A MINIMUM INSIDE DIAMETER OF 10 INCHES (CHRISTY G5 TRAFFIC VALVE BOX & LID).
- 2. CAST IRON LID SHALL BE MARKED AT THE FACTORY "WATER" FOR WATER APPLICATIONS, "RECLAIMED WATER" OR "RCW" FOR RECLAIMED WATER APPLICATIONS, AND "SS FORCE MAIN" OR "SSFM" FOR SANITARY SEWER APPLICATIONS.
- 3. FOR RECLAIMED WATER AND SANITARY SEWER APPLICATIONS, CAST IRON LID SHALL BE EPOXY COATED AT THE FACTORY, OR POWDER COATED, COLOR SHALL BE PURPLE FOR RECLAIMED WATER APPLICATIONS AND GREEN FOR SANITARY SEWER APPLICATIONS.
- 4. VALVE BOX SHALL BE SET OR ADJUSTED TO GRADE PER DRAWING NO. C-3.1.4, RISER FOR ADJUSTED VALVE BOX SHALL BE PER DRAWING NO. C-3.1.4. FOR OVERLAY ADJUSTMENTS, RISER WILL NOT REQUIRE REPLACEMENT OR EXTENSION IF IT EXTENDS A MINIMUM OF 2 INCHES INTO ADJUSTED VALVE BOX.
- 5. GRADE RING IS NOT ALLOWED FOR NEW VALVE BOX INSTALLATIONS. CAST IRON GRADE RING (CHRISTY G5 GRADE RING) MAY BE USED FOR OVERLAY ADJUSTMENTS WHEN OVERLAY DEPTH EQUALS THE GRADE RING DEPTH. NO MORE THAN ONE GRADE RING ALLOWED PER BOX.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
			VALVE BOX & LID	DRAWING NO. C-3.1.6 (203,306,307)
APPROV	ED BY: _	07/09		DATE 7/2009



HYDRANTS SHALL HAVE HARRINGTON HIHS 5 INCH INTEGRAL HYDRANT STORZ, OR APPROVED EQUAL, WITH BLIND CAP & CABLE AND "OUT OF SERVICE" INDICATOR. OPERATING NUT SHALL BE 1-1/2 INCH PENTAGON. VALVE OPENING SHALL BE 5-1/4 INCHES AND OPEN COUNTER-CLOCKWISE. HYDRANTS SHALL HAVE (2) 2-1/2 INCH HOSE NOZZLES WITH AMERICAN NATIONAL HOSE COUPLING THREADS, (NO SUBSTITUTIONS). HYDRANT SHALL BE INSTALLED SO AS TO PROVIDE **CLEARANCE** IN ALL DIRECTIONS PER **DWG. C-3.1.7.1.**

- FOR 9 FEET-0 INCHES OR WIDER SIDEWALK OR OFFSET SIDEWALK, HYDRANT SHALL BE 2 FEET-0 INCHES TO FRONT FACE OF CURB. IF SIDEWALK IS NOT PRESENT, HYDRANT SHALL BE LOCATED 7 FEET-0 INCHES TO FRONT FACE OF CURB, RESTRAINING GLANDS SHALL BE ROMAC GRIPRING PIPE RESTRAINER FOR MECHANICAL JOINT VALVES OR ROMAC RESTRAINED FCA FOR FLANGED VALVES OR APPROVED EQUAL. PIPE RESTRAINT SHALL BE ROMAC "600" SERIES RESTRAINING SYSTEM OR APPROVED EQUAL. RESTRAINING DEVICES SHALL BE FULL CIRCLE (NON POINT) LOADING TYPE. HYDRANT SHOE MAY BE AQUAGRIP, RESTRAINED MECHANICAL JOINT (MJ) OR APPROVED EQUAL.
- THRUST BLOCKS SHALL HAVE THREE (3) SQUARE FEET MINIMUM AREA AND SHALL BE FORMED AGAINST UNDISTURBED NATIVE OR BACKFILL COMPACTED TO 95%, AND CONFORM TO DWG. C-3.1.14. NO CONCRETE ON HYDRANT DRAIN HOLES OR BOLTS. INSPECTION BY THE CARSON CITY INSPECTOR SHALL BE REQUIRED PRIOR TO BACKFILLING. 7. HYDRANTS SHALL BE PAINTED INTERNATIONAL ORANGE (RUST-OLEUM 7400 HIGH GLOSS ALKYD ENAMEL OR APPROVED EQUAL).

	DO NOT DAINT	_ INOU	CTOD7 OAD	OD OADLE	חבסו אווא	ED WATER	LIVEDANITO	CUALL DE DAINTEE	DUDDLE INCTALL "O	UT 05
									PURPLE. INSTALL "O	
SERVICE" INDICATOR COLLAR ON 2-1/2 INCH NOZZLE. INDICATOR SHALL BE HIGHLY VISIBLE, YELLOW WITH BLACK LETTERS,										
2-1/2 INCH MINIMUM WIDTH WITH 1 INCH LETTERS STATING "OUT OF SERVICE". INDICATOR SHALL BE "CALPICO" OR EQUAL										
APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.										
NO.	REVISION	DATE	STANDARI) DETAIL	FOR F	PUBLIC	WORKS	CONSTRUCTION	SECTION	
									_	

<u>/1</u> /2	REVISED CONC. LIMITS FLANGE HEIGHT	01/14 5/14	FIRE HYDRANT
			ASSEMBLY
APF	ROVED BY:	5/14	ASSEMBLI

T CARSON CITY DRAWING NO. 5/2014

D. | REVISION | DATE STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION | SECTION | FIRE HYDRANT SETBACK /FENCE CLEARANCE APPROVED BY:

1. SEE DWG. C-3.1.7 FOR FIRE HYDRANT INSTALLATION.

2. INSTALL OR RELOCATE EXISTING FENCE/WALL/LANDSCAPING/MISC IMPROVEMENTS ETC.

TO PROVIDE THE MINIMUM CLEARANCE AROUND THE HYDRANT AS SHOWN.

CIT'

CARSON WORKS

Δ.

ENGINEER

ØDANIEL L.

ROTTER

Exp: 12-31-15 CIVIL

No. 22071

∽(SEE NOTE 1.)

EXISTING OR PROPOSED FENCE/WALL OR OTHER ABOVE

GROUND OBSTRUCTION

- FIRE HYDRANT (SEE DWG C-3.1.7)

EXTEND TYPE A

SIDEWALK TO LIMITS

ARSON CITY

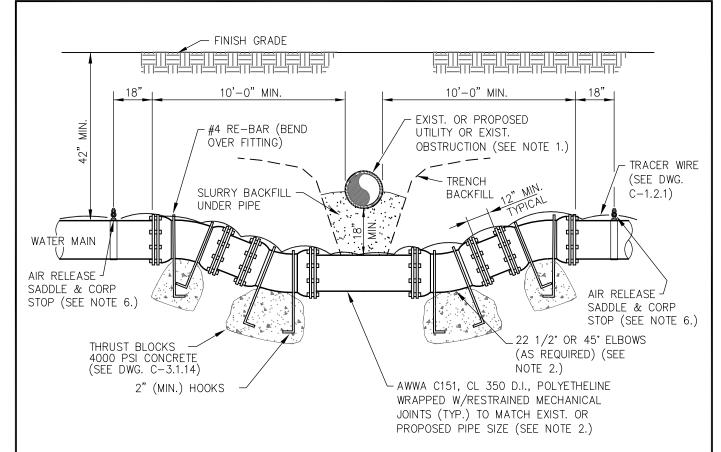
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-3.1.7.1 (307)

7/2014

STRUCTION

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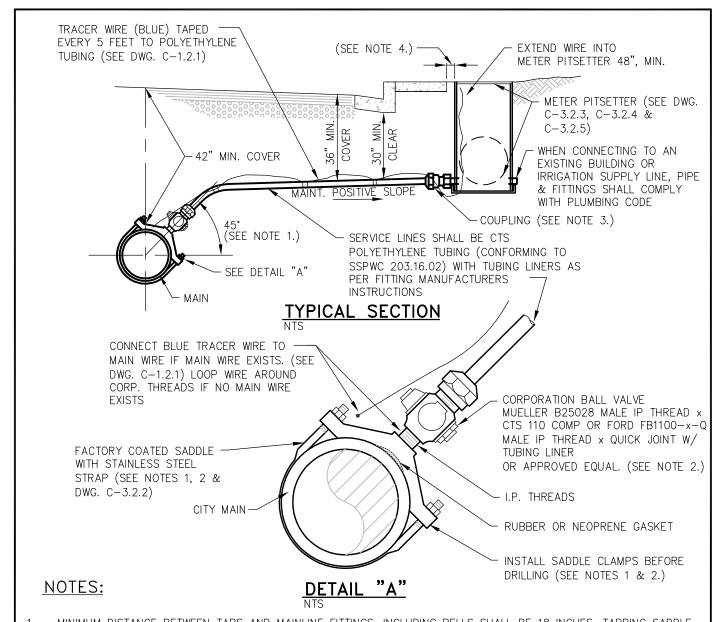
TYPICAL CROSSING DETAIL

- 1. ALL POTABLE WATER CROSSINGS OF EXISTING OR PROPOSED UTILITIES, OR OTHER UNDERGROUND OBSTRUCTION SHALL BE DETAILED BY THE DESIGN ENGINEER, AND SHALL MEET THE CRITERIA OUTLINED BY NAC CHAPTER 445A AND THE NDEP BUREAU OF SAFE DRINKING WATER VERTICAL CROSSING CONFLICTS SUMMARY. FOR PURPOSES OF SEPARATION AND PROTECTION OF THE WATER SUPPLY, RECLAIMED WATER SHALL BE CONSIDERED A SEWER LINE. REFER TO DWG C-3.1.2 FOR REQUIRED MITIGATIION TO SEWER STORM PIPE LOCATED ABOVE WATER MAIN.
- 2. THE ENTIRE ASSEMBLY SHALL BE INSTALLED USING DUCTILE IRON RESTRAINED MECHANICAL JOINT FITTINGS. 3. ALL NUTS & BOLTS SHALL BE COATED WITH COLD APPLIED WATER BASED ENAMEL OR BLACK ASPHALT

(AWWA C509, SEC 4.2.2.8 OR C515, SEC 4.2.2.6)

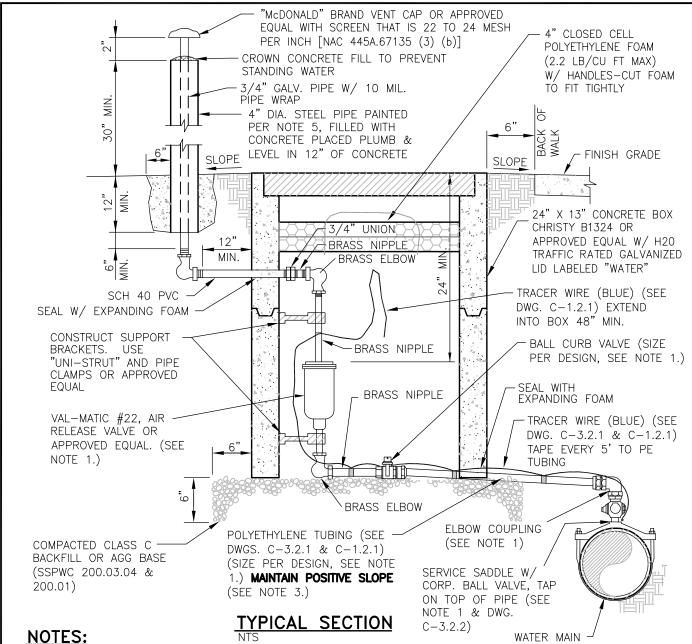
- 4. UPON APPROVAL OF CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR, THE ABOVE ASSEMBLY MAY BE REPLACED WITH A WELDED STEEL "SPOOL" OF EQUIVALENT DIAMETER, PRIMED AND WRAPPED (10 MILS MIN.). CONNECT TO EXISTING LINES USING MECHANICAL JOINTS. STEEL SPOOL SHALL BE CONSTRUCTED BY A CERTIFIED WELDER AND PRESSURE CHECKED IN ACCORDANCE WITH SPECIFICATIONS.
- 5. CONCRETE FOR THRUST BLOCKS SHALL NOT INTERFERE WITH THE REMOVAL OF BOLTED ASSEMBLIES.
- AN AIR-RELEASE WITH A POSITIVE GRADE FROM MAIN TO RELEASE, SHALL BE INSTALLED ON BOTH SIDES OF CROSSING (18 INCHES MINIMUM FROM ANY FITTING) UNLESS OTHERWISE NOTED ON THE APPROVED PLANS. ONE AIR-RELEASE MAY BE USED WITH ONE LINE TO EACH SIDE OF CROSSING. SEE DWG. C-3.1.10 &
- ROUTING WATER LINE OR "ROPING" UNDER SEWER LINE REQUIRES APPROVAL BY CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
			LOWERING WATER	DRAWING NO. C-3.1.8 (203,3
APPRO\	VED BY:	07/09	MAINS (MODIFIED)	DATE 7/2009



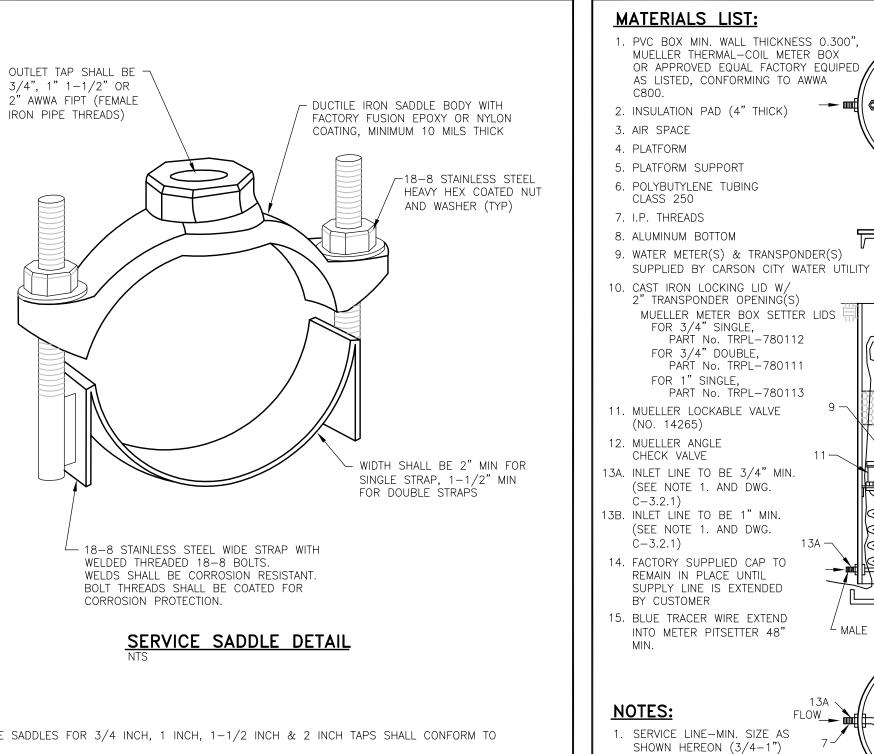
- MINIMUM DISTANCE BETWEEN TAPS AND MAINLINE FITTINGS, INCLUDING BELLS SHALL BE 18 INCHES. TAPPING SADDLE MUST BE AT 45 DEGREE ANGLE, EXCEPTIONS MUST BE APPROVED BY CARSON CITY WATER UTILITY.
- CORPORATION VALVES AND SERVICE SADDLES SHALL CONFORM TO AWWA C800 AND BE NO LESS THAN THE SERVICE LINE SIZE. WHEN REPLACING AN EXISTING SERVICE LINE AND A SIZE LARGER THAN SHOWN IS ENCOUNTERED. THE LARGER SIZE LINE, FITTINGS AND SADDLE SHALL BE INSTALLED UNLESS APPROVED BY CARSON CITY WATER UTILITY.
- COUPLING FITTING SHALL CONFORM TO AWWA C800 AND BE A MUELLER H-15451 CTS 110 COMP OR FORD C14-xx-Q QUICK JOINT W/ TUBING LINER x FEMALE IP THREAD OR APPROVED EQUAL.
- METER PITSETTERS TO BE PLACED 4 INCHES FROM BACK OF SIDEWALK IN AREAS WHERE SIDEWALK IS ADJACENT TO CURB, OR 6 INCHES FROM BACK OF CURB IN AREAS WHERE SIDEWALK IS OFFSET FROM CURB, OR AS DIRECTED BY CARSON CITY WATER UTILITY. IN AREAS WHERE NO CURB OR SIDEWALK IS PRESENT, METER PITSETTERS SHALL BE PLACED WITHIN THE RIGHT-OF-WAY AS SHOWN ON THE APPROVED PLANS.
- DISCONTINUANCE OF USE OF A SERVICE REQUIRES ABANDONMENT OF THE SERVICE. NOTIFY CARSON CITY PUBLIC WORKS FOR METER REMOVAL PRIOR TO PROCEEDING WITH ABANDONMENT. REMOVE EXISTING METER BOX AND EXPOSE CORP STOP AT MAIN FOR SHUT-OFF. ALL PIPING OR TUBING SHALL BE DISCONNECTED FROM CORP AND PLUGGED AT BOTH ENDS. CARSON CITY PUBLIC WORKS SHALL BE NOTIFIED FOR INSPECTION OF CORP ASSEMBLY PRIOR TO BACKFILLING

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			_ / .9999	CARSON CITY
			3/4" TO 2"	DRAWING NO. C-3.2.1 (203,307)
			WATER SERVICE	DATE (200,307)
APPROV	ED BY:	07/09	WAILK SERVICE	7/2009



- SIZE AND PRESSURE CLASS AS INDICATED ON THE PLANS, SHALL BE DETERMINED BY THE DESIGN ENGINEER, MINIMUM SIZE 3/4 INCH. CORP BALL VALVE SHALL BE MUELLER B-20013 OR B-2969, OR FORD FB-500-x WITH MALE I.P. THREADS BOTH ENDS OR APPROVED EQUAL. ELBOW COUPLING SHALL BE MUELLER H-15533 FEMALE I.P. THREAD X CTS 110 COMP, OR FORD L14-xx-Q FEMALE IP THREAD X QUICK JOINT, W/ TUBING LINER OR APPROVED EQUAL. BALL CURB VALVE SHALL BE MUELLER B-25171N OR FORD B41-xxx-NL FEMALE I.P. X CTS 110 OR APPROVED EQUAL.
- AIR RELEASE VALVES SHALL BE INSTALLED OUTSIDE PAVEMENT SECTION. SLOPE GROUND AWAY FROM AIR RELEASE VALVE BOX OR CONSTRUCT MINIMUM HEIGHT CURBING TO PROTECT FROM FLOODING BY SURFACE WATERS.
- 3. ALL PIPES SHALL HAVE POSITIVE SLOPE FROM MAIN LINE TO AIR RELEASE VALVE.
- 4. 1 1/2 INCH TO 2 INCH AIR-RELEASE VALVES REQUIRE A CHRISTY FL36 BOX AND COVER OR APPROVED EQUAL. 5. STEEL PIPE PAINT SHALL BE RUST-OLEUM 7400 HIGH GLOSS SAFETY YELLOW ALKYD ENAMEL OR APPROVED

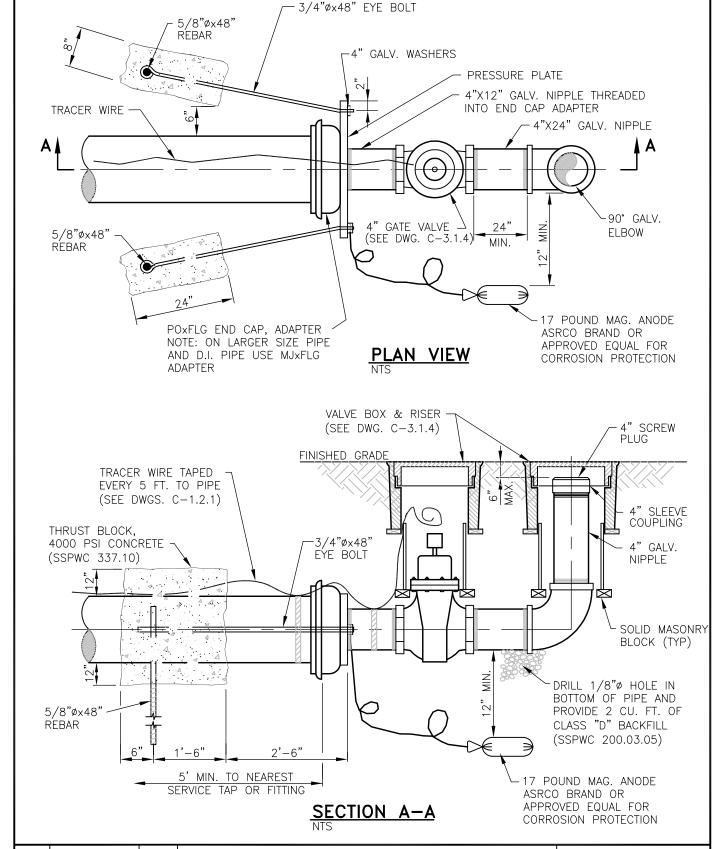
	APPROV	ED BY: BS	5/14	AIN NELLASE	5/2014
1				AIR RELEASE	DATF (20
	2	NOTE 1	05/14	POTABLE WATER	DRAWING NO. C-3.1.10 (20
╛	1	FOAM INSULATION	02/13	DOTABLE WATER	CARSON CITY
	NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION

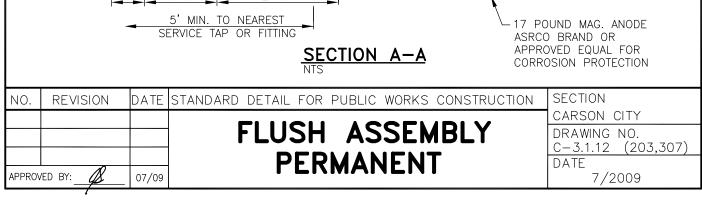


SHALL BE IN COMPLIANCE WITH NSF61.

- SERVICE SADDLES FOR 3/4 INCH, 1 INCH, 1-1/2 INCH & 2 INCH TAPS SHALL CONFORM TO C800 WITH A MINIMUM WORKING PRESSURE OF 150 PSI, UNLESS A HIGHER PRESSURE IS SPECIFIED, AND BE MANUFACTURED BY FORD, MUELLER, ROMAC, SMITH-BLAIR OR APPROVED EQUAL. (SEE DWG. C-3.2.1 FOR ADDITIONAL NOTES AND DETAILS.) POTABLE SERVICE SADDLES
- SERVICE SADDLES SHALL BE FACTORY COATED DUCTILE IRON (ASTM A395 OR A536) WITH TYPE 18-8 STAINLESS STEEL (304 OR 304L) STRAP(S), BOLTS, NUTS, & WASHERS. ALL STAINLESS STEEL SHALL BE FULLY PASSIVATED.

	0		3/4" TO 2" SERVICE SADDLE	CARSON CITY DRAWING NO. C-3.2.2 (203, 307) DATE
APPROV	/ED BY:	07/09	SERVICE SAPPLE	7/2009





MALE IRON PIPE THREADS

15" DIAMETER THERMAL-COIL

PIT SETTER

NO. REVISION DATE STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION

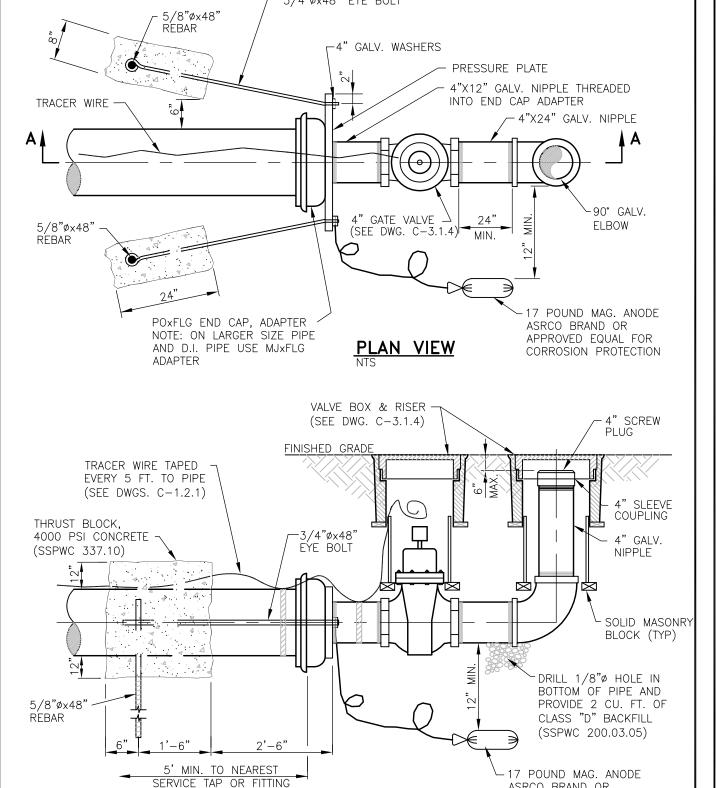
METER BOX FOR 3/4" SINGLE

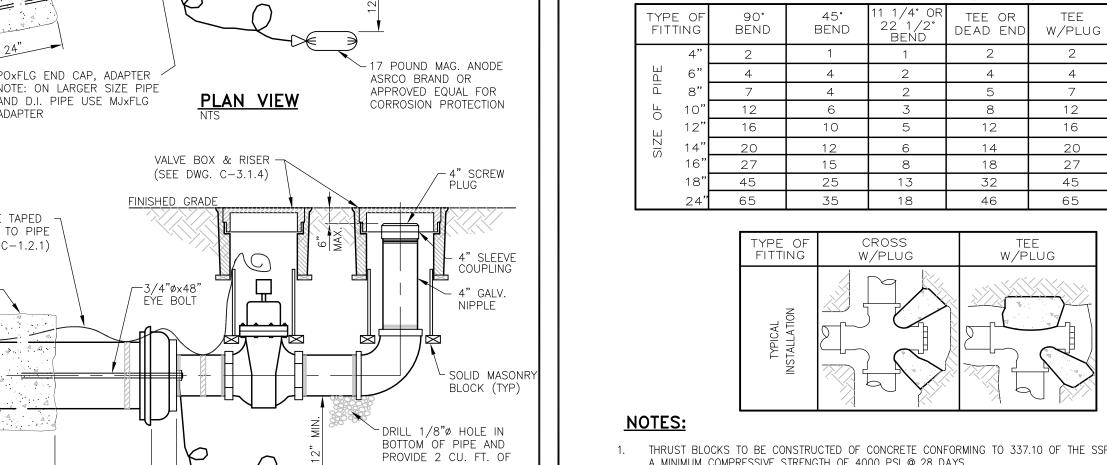
3/4" DOUBLE AND SINGLE PIT DRAWI C-3.2 DATE

2. PIT SETTER EXTENSION, 6" TOTAL

MAX. SHALL ONLY BE USED UPON

APPROVAL BY CARSON CITY WATER





PPROVED BY:

METER BOX LID AT —

FINISH GRADE

Time.

18" DIAMETER THERMAL-COIL

" SINGLE PIT SETTER

METER BOX FOR 3/4" DOUBLE,

SECTION

CARSON CITY

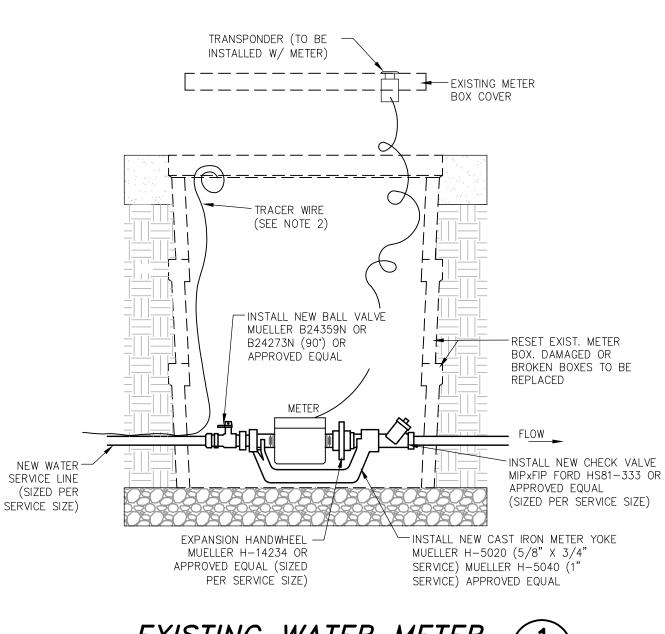
- THRUST BLOCKS TO BE CONSTRUCTED OF CONCRETE CONFORMING TO 337.10 OF THE SSPWC AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS.
- AREAS GIVEN ARE FOR CLASS 150 PIPE AT WORKING AND TESTING PRESSURE OF 150 P.S.I., WITH 2000 P.S.F. BEARING CAPACITY. INSTALLATIONS USING DIFFERENT PIPE, TEST PRESSURES, AND/OR SOIL TYPES SHOULD HAVE AREAS ADJUSTED ACCORDINGLY, SUBJECT TO THE APPROVAL OF THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
- 3. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.

90° BEND

45° BEND

THRUST BLOCK BEARING AREA (SQ. FT.)

4. JOINTS, FLANGES, NUTS, BOLTS AND FACE OF PLUG SHALL BE KEPT CLEAR OF CONCRETE. O. | REVISION | DATE STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION | SECTION | ARSON CITY DRAWING NO. THRUST BLOCKS



EXISTING WATER METER MODIFICATION DETAIL

- 1. ALL FITTINGS SHALL COMPLY WITH ANSI/NSF 372 REGARDING LOW LEAD CONTENT.
- 2. EXTEND TRACER WIRE AT LEAST 48" INTO METER BOX.

TEE OR DEAD END

W/PLU

45 65

7/2009

12

16

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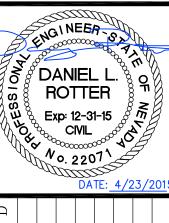
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1 1/4° OR

22 1/2° BEND

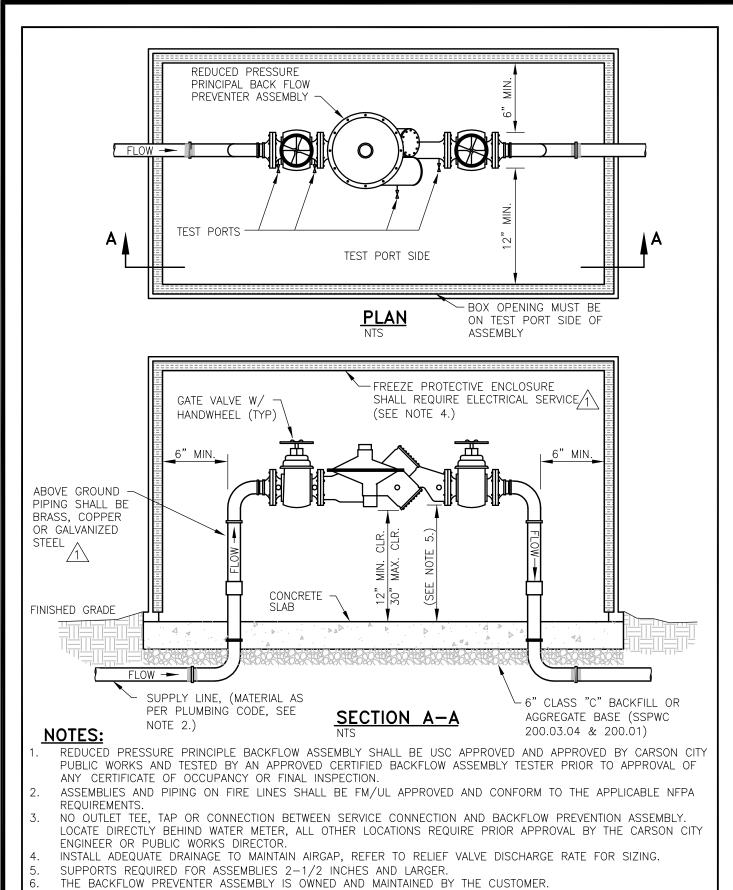
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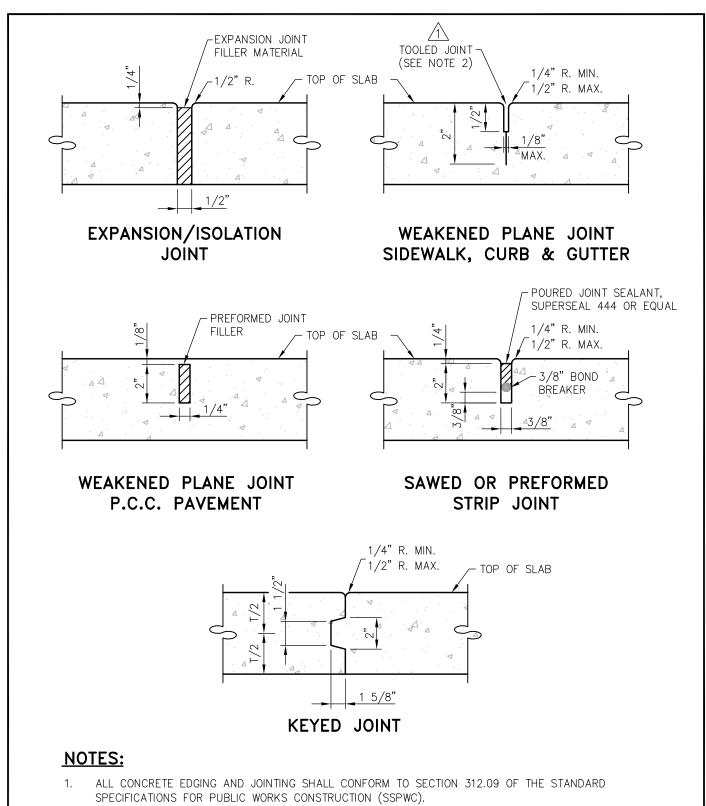
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STRUCTIO MOUNTAIN REHABILIT PROJECT NO

C28





2. AFTER PRELIMINARY TROWELING, THE CONCRETE SHALL BE PARTED TO A DEPTH OF 2 INCHES WITH A

no. | revision ||date|standard detail for public works construction |Section

STRAIGHTEDGE. THE CONCRETE SHALL THEN BE REFLOATED TO FILL THE PARTED JOINT WITH MORTAR.

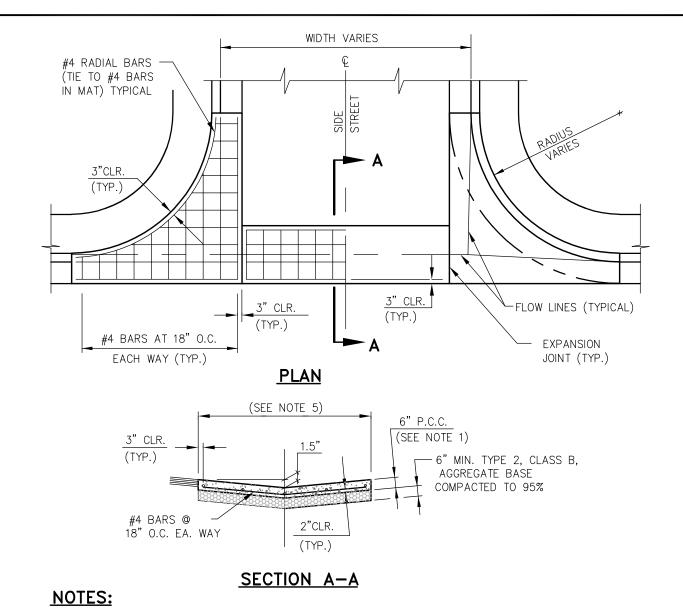
P.C.C. JOINTING DETAILS

FINAL JOINT FINISHING SHALL BE ACCOMPLISHED WITH A JOINTER TOOL AS SHOWN. (SSPWC 312.09.02)

CARSON CITY

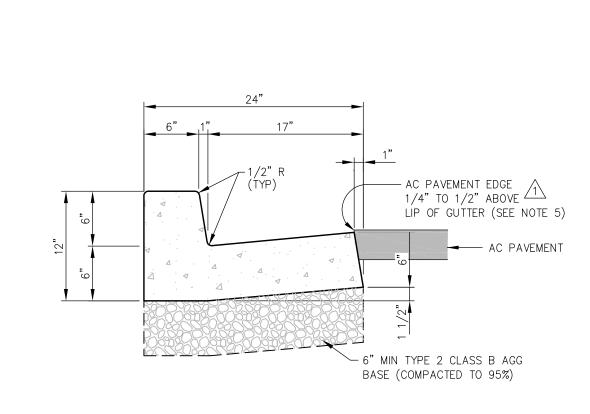
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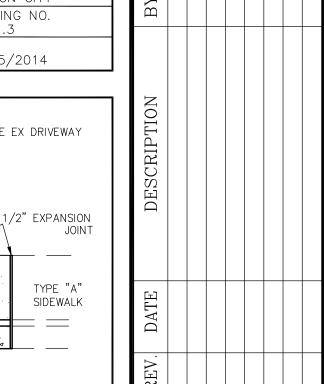
- PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD), 4000 PSI MIN. COMPRESSIVE STRENGTH @ 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ± 1.5 %, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202. POLYPROPYLENE FIBERS SHALL BE ADDED TO THE P.C.C. PER THE MANUFACTURER'S RECOMMENDATIONS.
- FOR INDUSTRIAL AREAS, AN ENGINEERED DESIGN IS REQUIRED.
- AGGREGATE BASE SHALL BE ENGINEERED TYPE 2, CLASS B WITH 95% COMPACTION.
- VALLEY GUTTER SHALL HAVE WEAKENED PLANE JOINTS EVERY 10 FEET.
- 5. LOCAL AND COLLECTOR STREETS, WIDTH = 6 FEET. ARTERIAL STREETS (DRIVEWAYS ONLY), WIDTH = 10 FEET.
- VALLEY GUTTER SECTIONS (SPANDRELS) ALONG CURB & GUTTER SHALL BE A MONOLITHIC POUR AS SHOWN. ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL
- C-5.1.1 AND CONFORM TO SECTION 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

NO.	REVISION	DATE	STANDARD DETAIL	FOR PUBLIC	WORKS	CONSTRUCTION	SECTION
							CARSON CITY
			P.C.C.	VALLE	Y G	UTTFR	DRAWING NO. C-5.1.2
			1.0.0.	VALLE	. •	OIIEN	DATE
APPROV	ED BY:	7/09					7/2009



- PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD), 4000 PSI MIN COMPRESSIVE STRENGTH @ 28 DAYS, MIN 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX, WATER/CEMENT RATIO OF 0.45. AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES ALL MATERIALS SHALL CONFORM TO SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- ALL CONCRETE CURB & GUTTER SHALL HAVE 1/2 INCH EXPANSION JOINTS EVERY 30 FEET (UNLESS APPROVED OTHERWISE BY THE ENGINEER) AND AT ALL CURB RETURNS AND SHALL HAVE WEAKENED PLANE JOINTS EVERY 10 FEET. CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL C-5.1.1 AND CONFORM TO SECTION 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
- ALL AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND CONFORM TO SECTION 200.01. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND SHALL BE MECHANICALLY COMPACTED TO 95% COMPACTION, IN CONFORMANCE WITH SECTION 308.05 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS
- 4. CURBS SHALL BE MARKED WITH A 2 INCH "S" ON THE TOP OF CURB AT SEWER LATERAL LOCATIONS. EXCEPTION: AC PAVEMENT EDGE SHALL BE FLUSH TO 1/4 INCH ABOVE THE LIP OF GUTTER WHEN LOCATED
- ADJACENT TO A PEDESTRIAN RAMP, WITHIN AN ACCESSIBLE ROUTE OR BIKE LANE.

		NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
		/1\	AC/LIP	06/12		CARSON CITY
		/2\	NOTE 5	05/14	PCC CURB & GUTTER	DRAWING NO. C-5.1.3
┪		APPROV	/ED BY: FR	05/14	TYPE 1	DATE 5/2014
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CARSON WORKS

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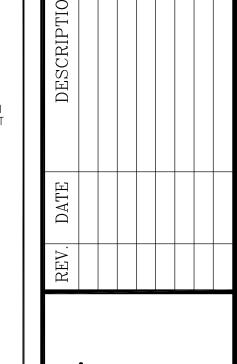
ENGINEER.

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ROTTER

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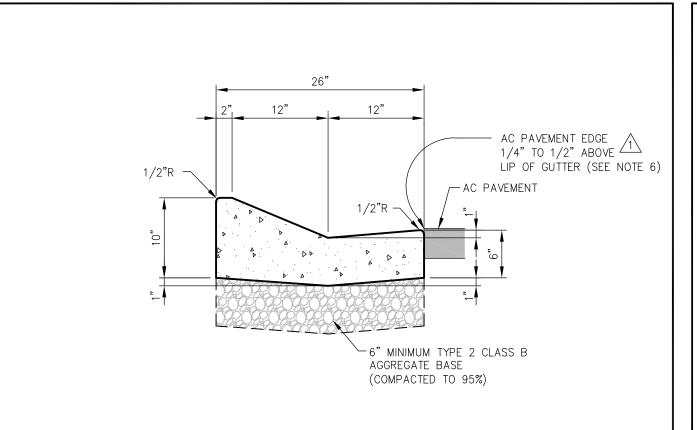
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CARSON CITY

DRAWING NO.

5/2014



REVISION DATE STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION SECTION

BACKFLOW PREVENTER ASSEMBLY

(REDUCED PRESSURE TYPE)

CARSON CITY

DRAWING NO.

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5/2014

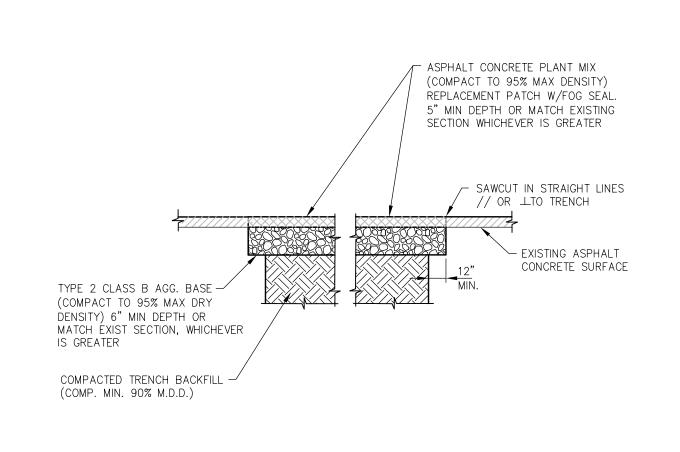
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APPROVED BY: 05/14

APPROVED BY: 28

- 1. TYPE 2 CURB AND GUTTER REQUIRES SPECIFIC APPROVAL BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
- PORTLAND CEMENT CONCRETE (PCC) SHALL HAVE THE FOLLOWING CHARACTERISTICS; SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD), 4000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, MINIMUM 6 SACKS OF CEMENT PER CUBIC YARD, W/MAXIMUM WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6%±1.5%, SLUMP 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) FOR CONCRETE EXPOSED TO FREEZE-THAW ENVIRONMENTS.
- 3. ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL C-5.1.1 AND CONFORM TO SECTION 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
- ALL AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND CONFORM TO SECTION 200.01. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, AND SHALL BE MECHANICALLY COMPACTED TO 95% COMPACTION, IN CONFORMANCE WITH SECTION 308.05 OF THE STANDARD SPECIFICATIONS FOR PUBLIC
- 5. CURBS SHALL BE MARKED WITH A 2 INCH "S" ON THE TOP OF CURB AT SEWER LATERAL LOCATIONS.
- EXCEPTION: AC PAVEMENT EDGE SHALL BE FLUSH TO 1/4 INCH ABOVE THE LIP OF GUTTER WHEN LOCATED ADJACENT TO A PEDESTRIAN RAMP, WITHIN AN ACCESSIBLE ROUTE OR BIKE LANE.

	NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
1	/1\	AC/LIP	06/12		CARSON CITY
	12	NOTE 6	05/14	DOO OUDD 8 OUTTED	DRAWING NO. C-5.1.4
	APPROV	/ED BY: FR	05/14	TYPE 2	DATE 5 /2014



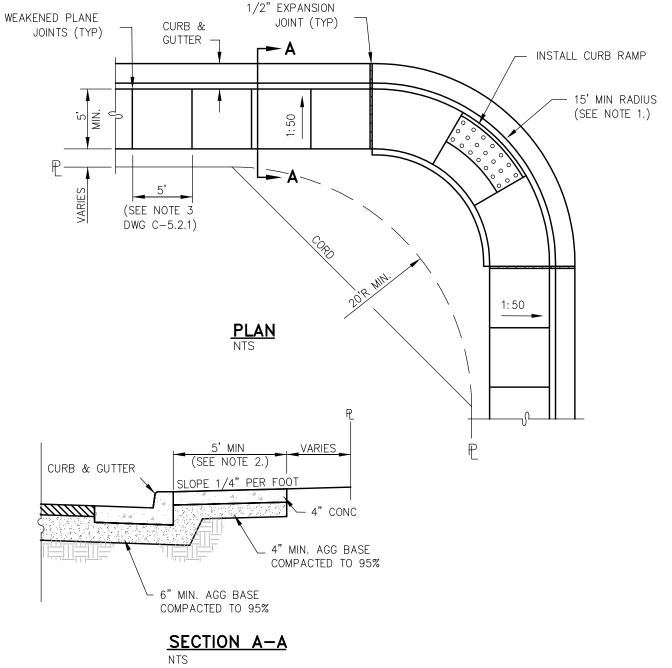
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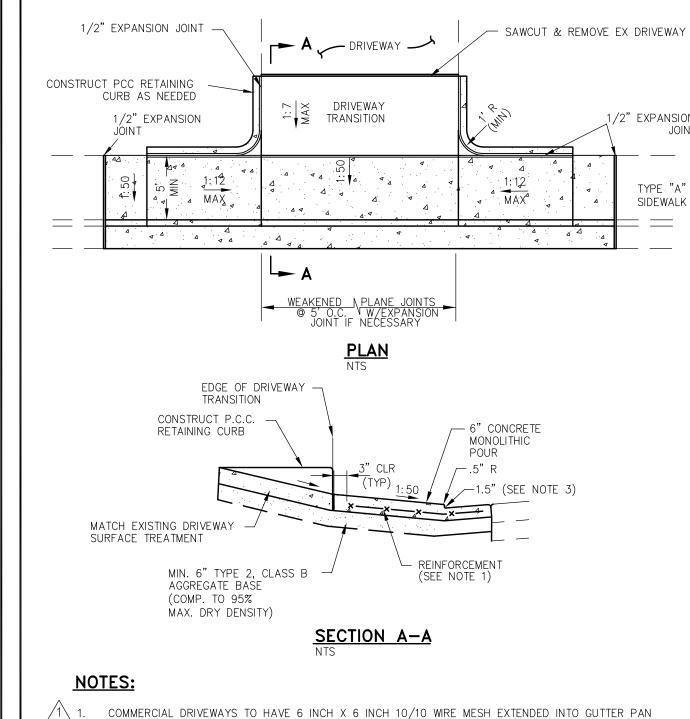
- IF SAWCUT IS WITHIN 24 INCHES OF EDGE OF A.C. PAVEMENT REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
- BITUMINOUS MATERIAL SHALL MEET THE REQUIREMENTS OF SECTIONS 201 AND 320 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- MIXING, SPREADING, AND COMPACTING OF BITUMINOUS PAVEMENT SHALL BE DONE ONLY WHEN THE SURFACE ON WHICH THE MATERIALS ARE TO BE PLACED IS DRY AND WHEN THE ATMOSPHERIC TEMPERATURE IS ABOVE 50 DEGREES FAHRENHEIT AND HAS NOT BEEN BELOW 40 DEGREES FAHRENHEIT DURING THE PRECEDING 24 HOURS.
- FINISHED SURFACE VARIATIONS SHALL BE 0 TO 0.25 INCHES ABOVE EXISTING SURFACE. ALL HUMPS EXCEEDING THIS TOLERANCE SHALL BE CORRECTED BY REMOVAL OF MATERIAL AND REPLACING IT WITH NEW MATERIAL. FINISHED SURFACE OF PATCH SHALL NOT BE BELOW EXISTING ADJACENT SURFACE.
- PLANTMIX BITUMINOUS PAVEMENT SURFACE COURSE SHALL BE PG-64-22 TYPE 3 AND SUB SURFACE COURSES SHALL BE PG-64-22 TYPE 3 UNLESS OTHERWISE NOTED.
- PLANTMIX BITMUMINOUS PAVEMENT PATCHES SHALL MATCH EXISTING SECTION OR HAVE A MINIMUM THICKNESS OF 5 INCHES, WHICHEVER IS GREATER.
- PLANS SHALL SPECIFY PAVEMENT PATCH AND AGGREGATE BASE DEPTHS AS SPECIFIED BY THE DESIGN ENGINEER.

1 5" AC DEPTH 09/11 CARSON C	
DR A WING	CITY
PAVEMENT PATCH C-5.1.6	NO.
DAIL	/2011



- MINIMUM CURB RETURN RADIUS SHALL BE 15 FEET UNLESS OTHERWISE APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
- 2. SOME STREETS MAY REQUIRE WIDER SIDEWALKS.

		_		
NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
			TYPE "A" SIDEWALK	DRAWING NO. C-5.2.2
APPRO\	/ED BY:	7/09	TIPE A SIDEWALK	DATE 7/2009



UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

LANDING IS GREATER THAN 2 INCHES.

APPROVED BY: DS/14

2. DRIVEWAY LANDING, SIDEWALK, CURB & GUTTER TO BE MONOLITHIC POUR TO A.C. LINE.

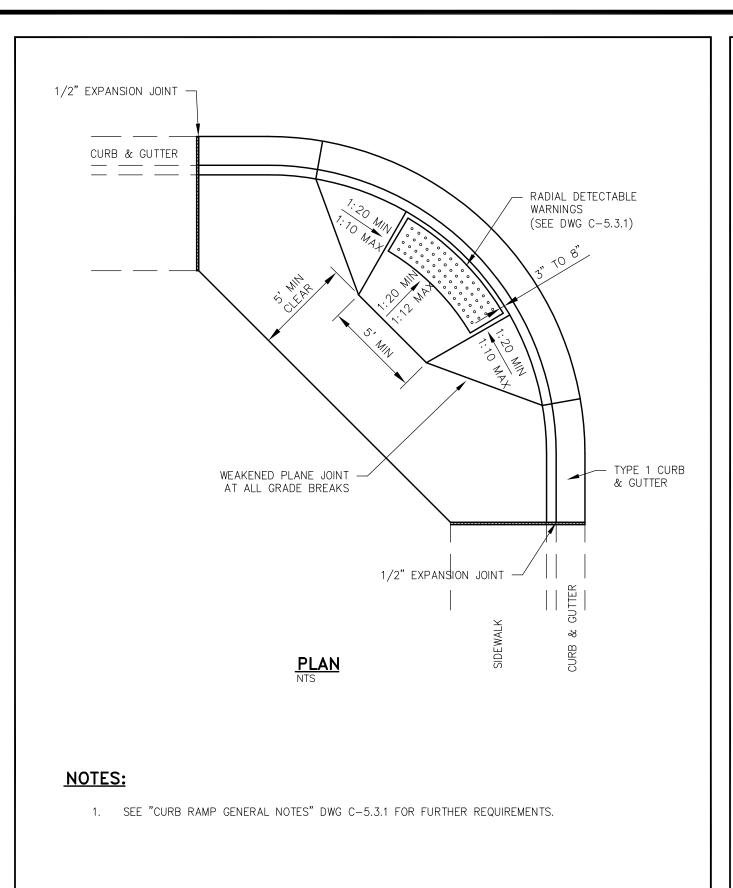
IO. REVISION DATE STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION SECTION

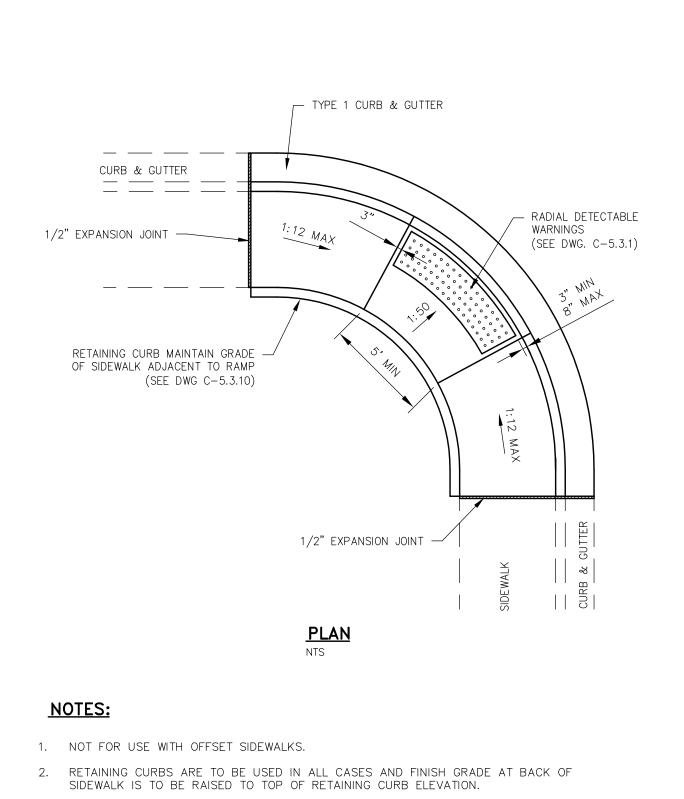
3. CURB HEIGHT AT LANDING SHALL BE 1 INCH MINIMUM AND 2 INCH MAXIMUM (3 INCH MAX UPON

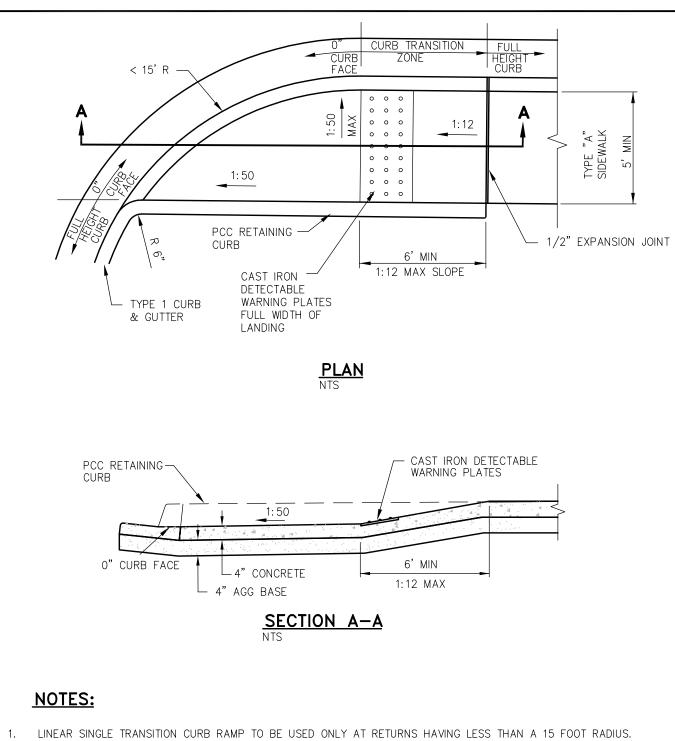
CARSON CITY PUBLIC WORKS APPROVAL) 2 INCH RADIUS TO BE USED WHEN CURB HEIGHT AT

4. DRIVEWAY APRONS SHALL BE CONSTRUCTED IN COMPLIANCE WITH STANDARD DETAILS C-5.1.1 AND

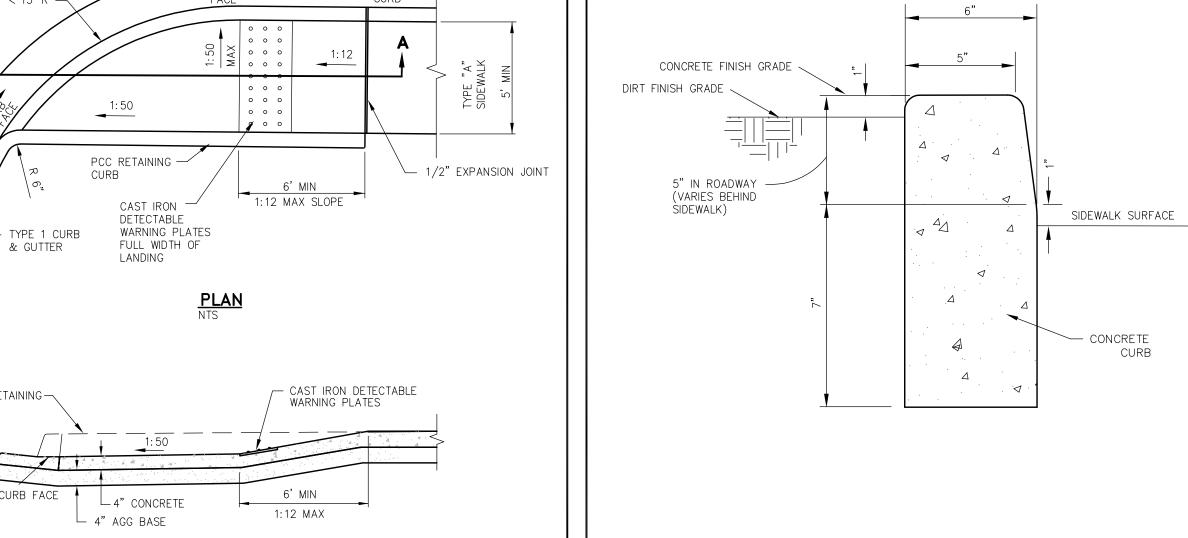
P.C.C. DRIVEWAY APRON







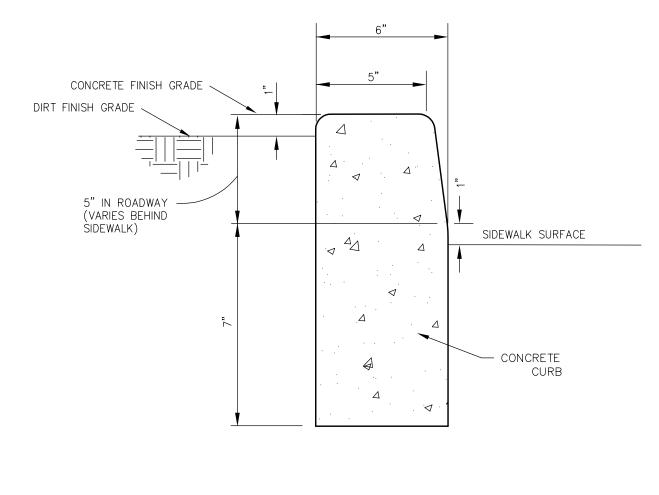
. RETAINING CURBS ARE TO BE USED IN ALL CASES AND EXISTING GRADE AT BACK OF SIDEWALK IS TO BE RAISED TO TOP OF RETAINING CURB ELEVATION.



CARSON CITY

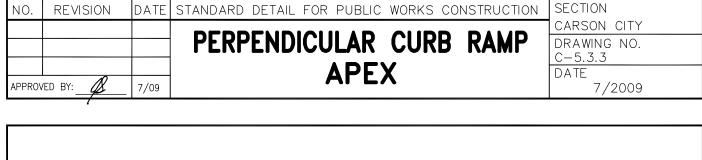
DRAWING NO.

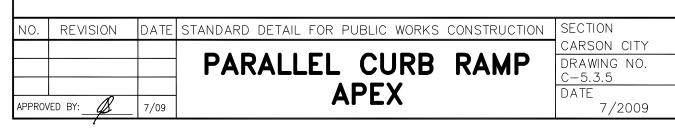
7/2009



- NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY CARSON CITY PUBLIC WORKS
- ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DETAIL 5.1.1 AND CONFORM TO SEC. 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).

1	NO.	REVISION	DATE	STANDARD DET	AIL FOR PUBLIC WORKS	CONSTRUCTION	SECTION CARSON CITY
				PCC	RETAINING	CURR	DRAWING NO. C-5.3.10
	APPRO\	 /ED BY:	7/09	1 .0.0.	KLIAIIIIIO		DATE 7/2009



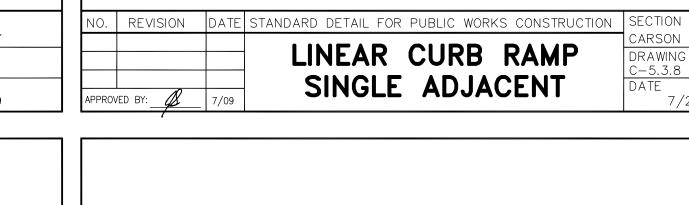


3. SEE "CURB RAMP GENERAL NOTES" DWG C-5.3.1 FOR FURTHER REQUIREMENTS.

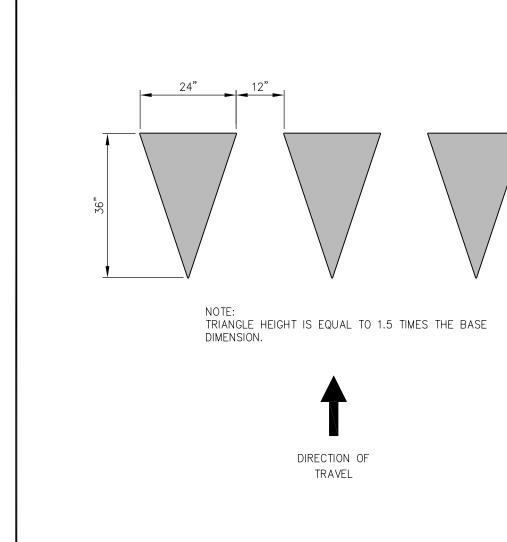
CENTER ON PEDESTRIAN —

RAMP LANDING (TYP)

APPROVED BY:



2. NOT FOR USE WITH OFFSET SIDEWALKS.



4. SEE "CURB RAMP GENERAL NOTES" DWG C-5.3.1 FOR FURTHER REQUIREMENTS.

NOTES:

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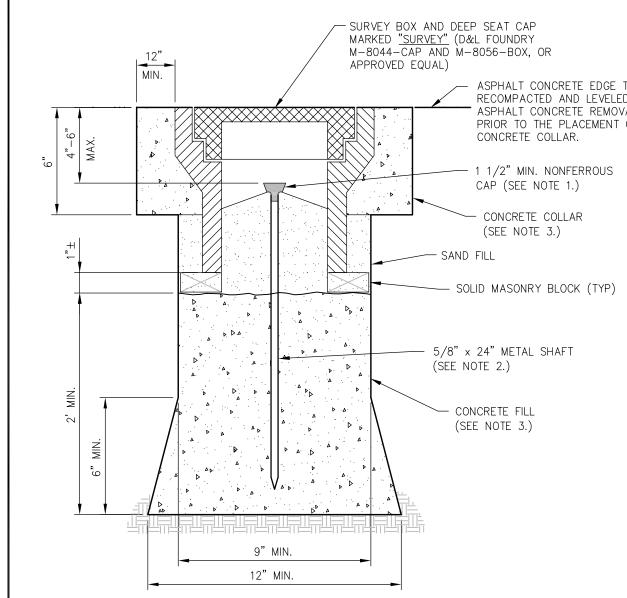
DRAWING NO.

7/2009

C - 5.4.3

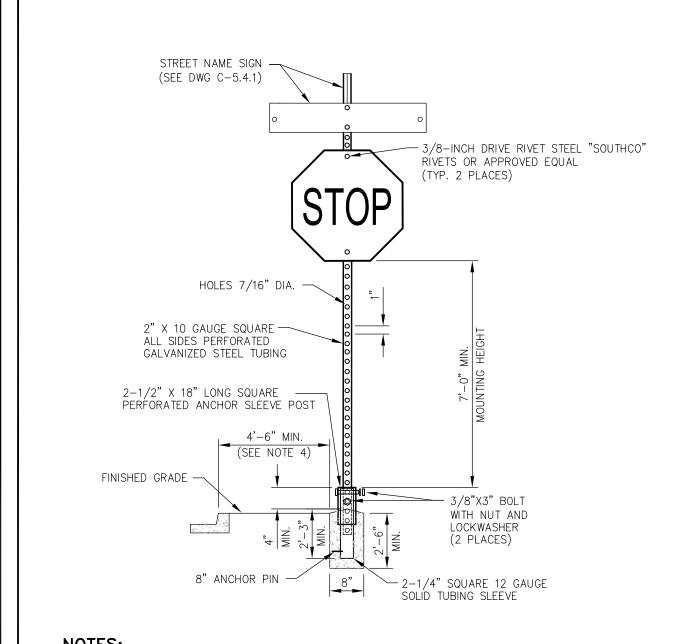
- ALL STRIPING SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS, CURRENT EDITION.
- 2. ALL PAINTED STRIPING AND PAVEMENT LEGENDS SHALL CONFORM TO CARSON CITY PUBLIC WORKS
- ALL INLAY TAPE STRIPING AND/OR PAVEMENT LEGENDS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
- 4. YIELD LINE TO BE INSTALLED FROM EDGE OF LANE TO EDGE OF PAVEMENT OR LIP OF CURB.

NO.	REVISION	DATE	STANDARD DETAIL	FOR PUBLIC	WORKS CONSTRUCTION	SECTION
						CARSON CITY
			YIFI D	LINE	LAYOUT	DRAWING NO. C-5.4.4
APPRO\	 /ED BY: <u> </u>	7/09			LAIOUI	DATE 7/2009



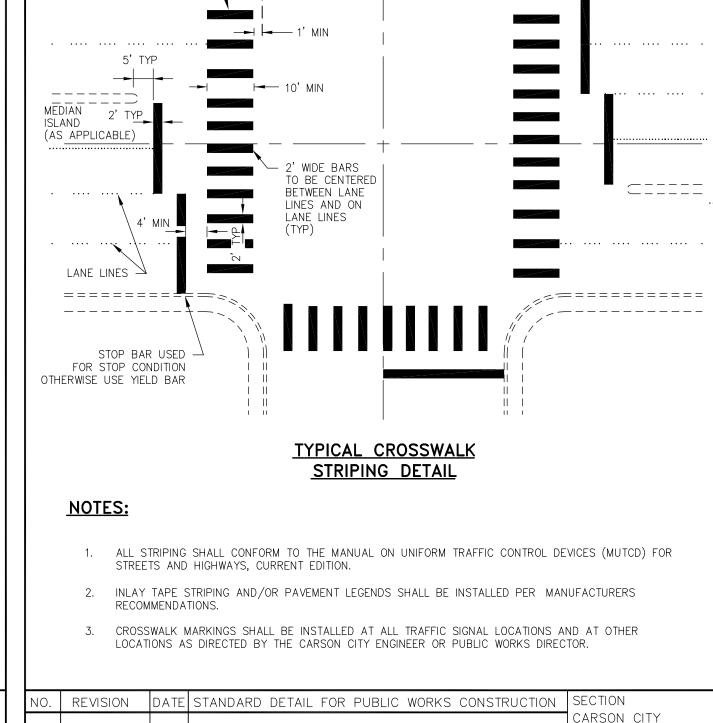
- 1 1/2 INCH MIN. NONFERROUS CAP WITH PROFESSIONAL LAND SURVEYOR NO. PERMANENTLY ATTACHED PRIOR TO
- 2. 5/8 INCH METALLIC SHAFT (SMOOTH SHAFTS TO BE DEFORMED).
- . PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202.
- 4. PRE-PUNCHED CAPS ARE NOT PERMITTED.

10.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
			CLASS "A"	DRAWING NO. C-5.5.3
PPROV	/ED BY:	7/09	SURVEY MONUMENT	DATE 7/2009
	7			

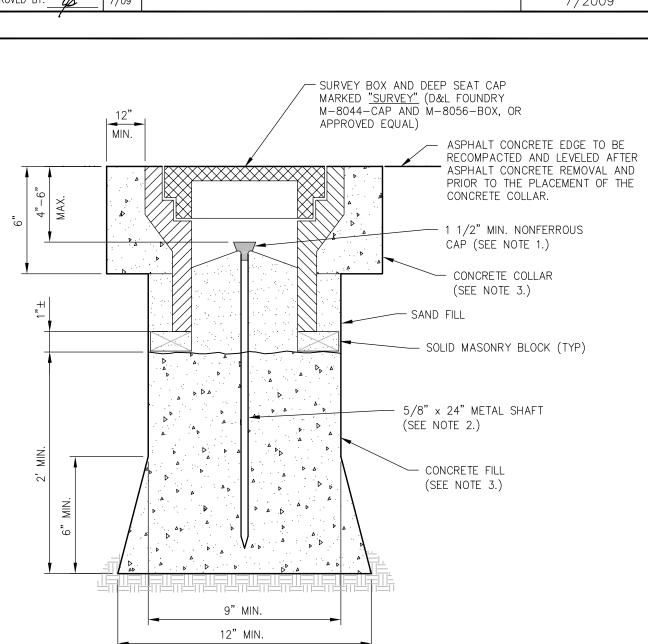


- 1. SIGN MATERIALS, CONSTRUCTION AND PLACEMENT SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 2. STREET NAME SIGN SHALL BE AS SPECIFIED IN STANDARD DETAIL DRAWING NO. C-5.4.1
- 3. ON STREETS WHERE CURBING DOES NOT EXIST, SET SIGN 6 FEET MINIMUM FROM PAVEMENT EDGE.
- 4. CONCRETE BASE SHALL BE LOCATED AT BACK OF SIDEWALK, UNLESS OTHERWISE DIRECTED BY THE
- 5. ALL REGULATORY SIGNS SHALL USE ASTM TYPE 3 OR 4 INTENSITY SHEETING.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
			TRAFFIC SIGN	DRAWING NO.
			INCTALLATION	C-5.4.2
APPR	OVED BY:	7/09	INSTALLATION	7/2009



CROSSWALK LEGEND



SECTION	
CARSON CITY	
DRAWING NO. C-5.5.3	l (
DATE	
7/2009	

CITY DEPARTMENT

CARSON WORKS

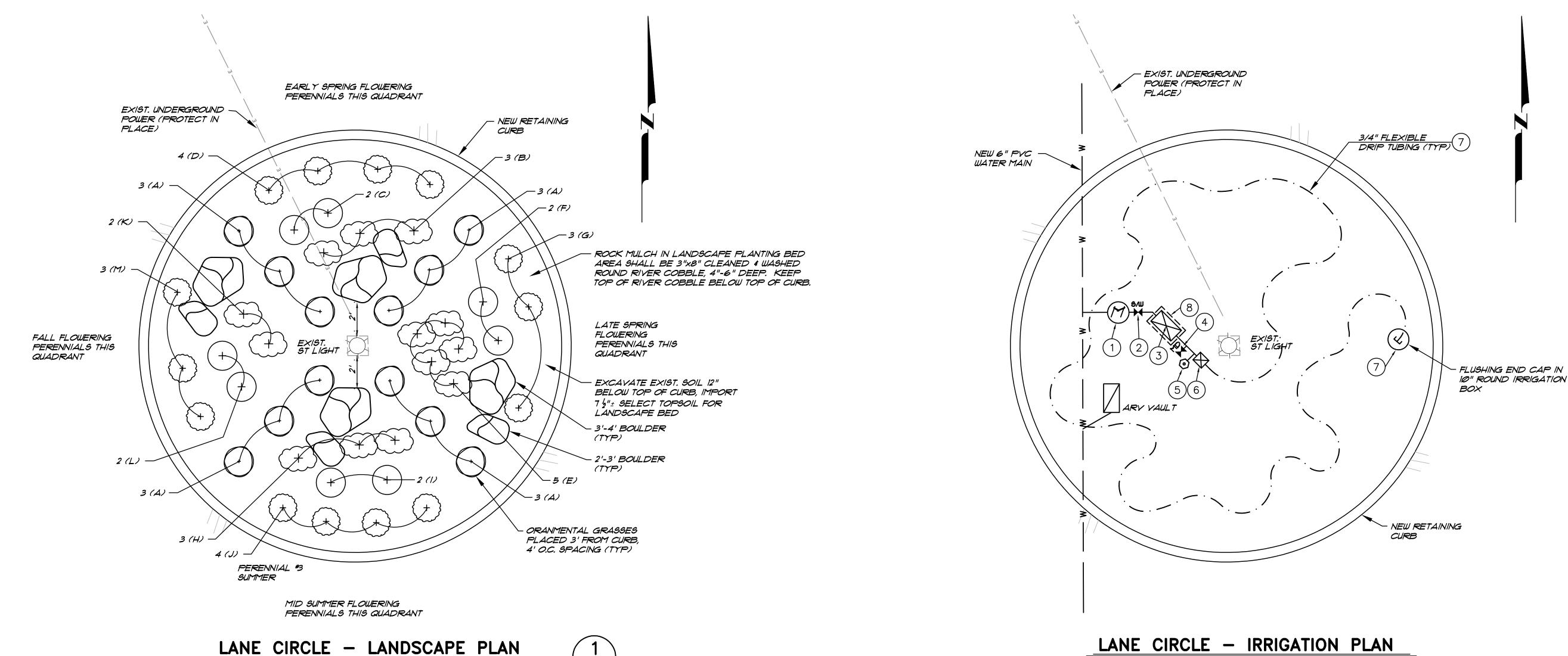
PUBLI

ING NEER

DANIEL L. ROTTER

Éχ Exp: 12-31-15 Ος CIVIL

No. 22071



LANE CIRCLE - IRRIGATION PLAN

REFERENCE SHEET C8 FOR UTILITY IMPROVEMENTS REFERENCE SHEET C20 FOR STREET IMPROVEMENTS

		PLANT LIST	
SYMB <i>O</i> L	QUANTITY	COMMON/ BOTANICAL NAME	SIZE
A (+)	12	KAREL FORESTER FEATHER REED GRASS (Calamagrostis acutiflora 'Karal Forester'	5 Gal
	EARLY (SPRING FLOWERING PERENNIALS	1
B (+)	3	EVERGREEN CANDY TUFT (Iberis Semperuirens)	1 Gal
c (+)	2	PASQUE FLOWERING, PURPLE (Pulsatilla vulgaris)	1 Gal
D (+)	4	ROCK CRESS, PINK (Arabis caucasica, 'Pink Charm'	1 Gal
•	LATE SF	PRING FLOWERING PERENNIALS	•
E (+)	5	INTERMEDIATE BEARDER IRIS, MULTI COLORS (Iridaceae, Rhizomatous Iris)	1 Gal
F (+)	2	SILVERSTEM LUPINE (Lupinus argenteus)	1 Gal
G (+)	3	SNOW-IN-SUMMER (Cerastium tomentosum)	1 Gal
•	MID-SUM	MER FLOWERING PERENNIALS	,
H (+)	3	RED-HOT POKER (Kniphofia uvaria)	1 Gal
1 +	2	COREOPSIS, YELLOW (Coreopsis lanceolata)	1 Gal
J (+)	4	BEARD TONGE, BLUE (Penstemon davidsonii)	1 Gal
•	FALL FL	OWERING PERENNIALS	,
K (+)	2	INDIAN SUMMER BLACK EYED SUSAN (Rudbeckia hirta 'Indian Summer')	1 Gal
L (+)	2	AUTUMN JOY SEDUM (Sedum 'Autumn Joy')	1 Gal
M (+)	3	PROFESSOR ANTON KIPPENBERG ASTER	1 (3 a)

(Symphyotrihum novi-belgii 'Bonny Blue')

REFERENCE # 1 2	SYMBOL S/W S/W	BRAND PIT SETTER (EXISTING) NIBCO	MODEL NUMBER 3/4" BRASS STOP AND WASTE VALVE, IN 10" ROUND IRRIGATION	COMMENTS 3/4" SINGLE PIT SETTER & WATER METER INSTALL INLINE VALVE BETWEEN
2	5/W	(EXISTING)	- · · · · · · · · · · · · · · · · · ·	
		NIBC <i>O</i>	- · · · · · · · · · · · · · · · · · ·	INSTALL INLINE VALVE BETHEEN
3			ВОХ	CITY WATER METER & BACKFLOW PREVENTER
		WILKINS	L975M-12	3/4" REDUCED PRESSURE BACKFLOW PREVENTER (RPA)
4	<u>M</u>	NIBCO	3/4" BRASS VALVE (CROSS HANDLE) T-113 SERIES, IN 10" ROUND IRRIGATION BOX	MANUAL DRAIN VALVE, PROVIDE TEE OFF OF MAINLINE
5	•	RAINBIRD	44-RC (YELLOW) IN 10" ROUND IRRIGATION BOX	1" QUICK COUPLER
6	\boxtimes	RAINBIRD	XCZ-Ø15-PRF	3/4" DRIP CONTROL VALVE KIT WITH 40 PSI PRESSURE REGULATOR, INCLUDING A DDCWP-2-9V TORO BATTERY OPERATED CONTROLLER, (2 STATION) AND A RAINBIRD LATCHING SOLENOID
7	A	PEPCO	3/4" FLEXABLE DRIP TUBING W/ FLUSHING END CAP LOCATED IN 10" ROUND IRRIGATION BOX	INSTALL TUBING 4"-6" BELOW FINISH GRADE, CAP ENDS WITH FLUSHING END CAP
8			BACKFLOW ENCLOSURE (By Hot Rock, or approved equal)	BACKFLOW ENCLOSURE FOR 3/4" RPA SHALL HAVE ROCK LIKE APPEARANCE WITH LOCKABLE ATTACHMENT ON 2 SIDES

NOTE:
CONTRACTOR SHALL SUBMIT ALL IRRIGATION EQUIPMENT LISTED ABOVE FOR FINAL APPROVAL.

SCALE HORIZ: 1" = 4"Know what's below. Call before you dig.

SHRUB PLANTING DETAIL 10/2003

1, 5, OR 15 GALLON PLANT SIZE

WATER TO DRAIN AWAY FROM TOP -

3" COMPACTED BERM 24" DIAMETER MINIMUM IN PLANTER BEDS. (BARK MULCH TO COVER SOIL BERM AND FILL WATER

PLANTING PIT TO BE 3X THE DIAMETER -

AS THE ROOTBALL AFTER EXCESS SOIL

IS REMOVED AND THE TOP OF THE ROOT

CONTRACTOR TO SCARIFY BOTTOM OF -

NECESSARY TO BREAK THROUGH ANY

DRAINAGE (SEE SPECIFICATIONS FOR

PERCOLATION TEST ON PLANTING HOLES).

PLANTING PIT TO 6" DEPTH OR AS REQUIRED

RESTRICTIVE LAYER AND PROVIDE SUFFICIENT

OF THE ROOTBALL AND THE SAME DEPTH

BASIN - NO LANDSCAPE FABRIC).

CROWN IDENTIFIED.

OF STRUCTURAL (FLARED) ROOT

UNDISTURBED ROOT BALL -

MOUNTAIN STREET

Y REHABILITATION PROJECT No. 5.1403

LANE CIRCLE

SCAPE & IRRIGATION PL

CITY DEPARTMENT

CARSON WORKS

PUBLIC

EXPIRES: 6-30-15

LS1 —— OF—— 40

REQUIREMENTS AND ADDITIONAL PLANTING REQUIREMENTS.

NOTE: REMOVE ALL BURLAP,

CONTAINERS FROM ROOTBALL AND DO NOT DISTURB ROOTBALL SOIL MIXTURE TO BE THREE

PARTS EXISTING SOIL & ONE PART APPROVED IMPORT TOP SOIL MIX

*REFER TO LANDSCAPE GENERAL

NOTES FOR PLANT STOCK QUALITY

TWINE, WIRE BASKETS OR

OR SOIL CONDITIONER.

- FINISHED GRADE/ NATURAL

PLANT TOP OF STRUCTURAL

INCH ABOVE FINISH GRADE.

- WATERING BASIN

(FLARED) ROOT SYSTEM ONE

BARK MULCH DEPTH TO BE 4"-6". KEEP MULCH 4" AWAY FROM BASE OF PLANT.

SCARIFY PLANTING AREAS TO A MIN.

OVER COMMERCIAL GRADE

ROCK MULCH SHALL BE PLACED

PERMEABLE LANDSCAPE FABRIC

8"-10" DEPTH (AS REQUIRED)

REFERENCE SHEET C8 FOR UTILITY IMPROVEMENTS

<u>NOTE:</u> ALL LANDSCAPE PLANTING AREAS SHALL BE FREE OF ALL ASPHALT OR COMPACTED ROAD BASE TO PROMOTE WATER DRAINAGE AND TO

PROVIDE FOR PLANT MATERIAL GROWTH.

3 TIMES

ROOT BALL

(N.T.S.)

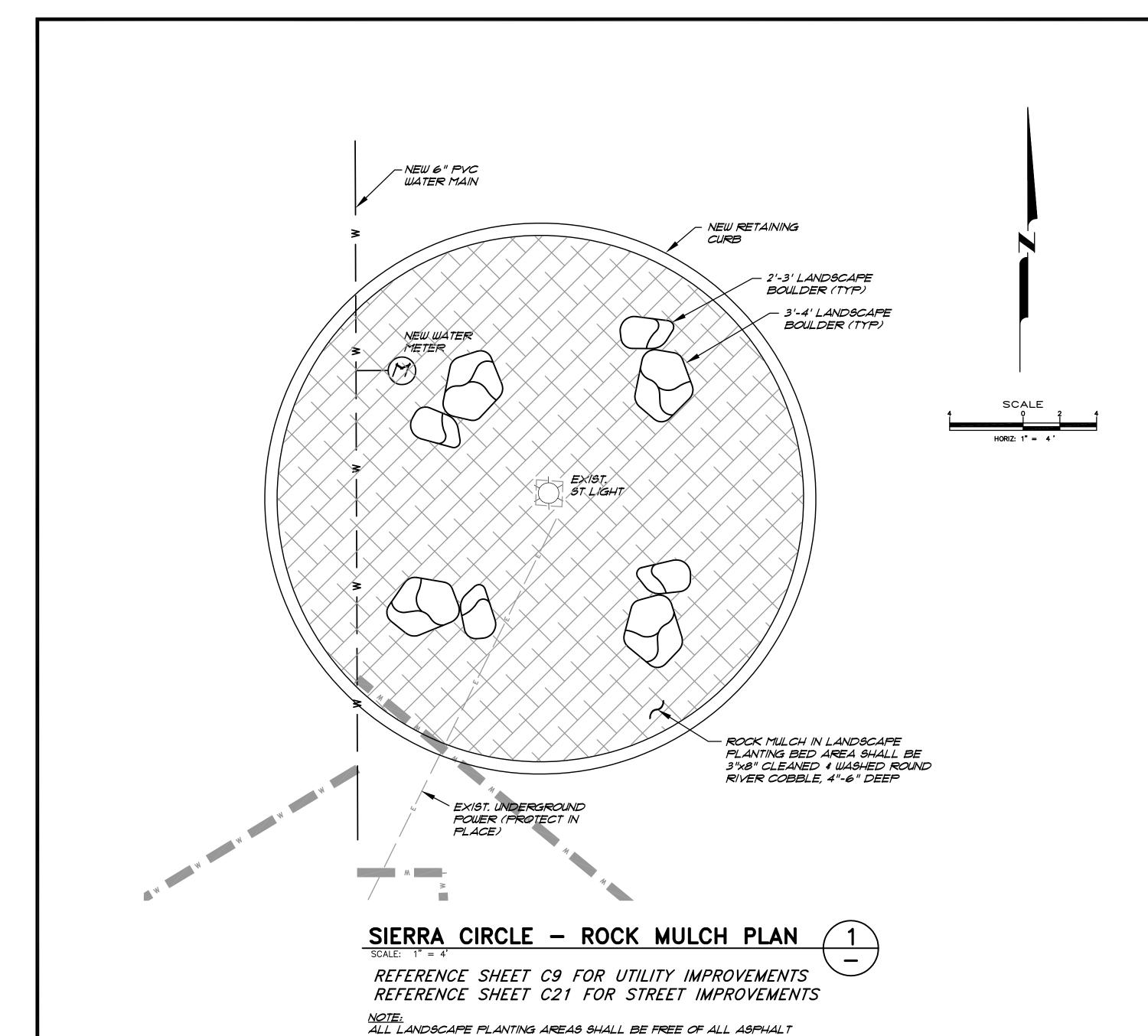
REFERENCE SHEET C20 FOR STREET IMPROVEMENTS

GRADE BACKFILL MATERIAL TO BE SCREENED FREE OF ROCKS LARGER THAN I" & MOISTENED BEFORE INSTALLATION. (BACKFILL MIX - 3/4 PART NATIVE SOIL, AND 1/4 PART APPROVED TOP SOIL MIX OR SOIL

SCARIFY SIDES OF PLANTING PIT.

· INSTALL "IBDU" WATER SOLUBLE BAGS/TABLETS STARTER PLANT FERTILIZER, PLACE 6" OUTSIDE & 2" - 3" BELOW TOP OF ROOTBALL. SEE GENERAL LANDSCAPE NOTES FOR QUANTITY.

NOT TO SCALE



OR COMPACTED ROAD BASE TO PROMOTE WATER DRAINAGE AND TO

PROVIDE FOR PLANT MATERIAL GROWTH.

THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO ANY DIGGING OR CONSTRUCTION. THE ACQUISITION OF ALL NECESSARY PERMITS ASSOCIATED WITH CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING ALL NOTES, CHECKING PLANT NAMES AND

IF QUANTITIES LISTED IN THE PLANTING SCHEDULES DO NOT CORRELATE WITH THE QUANTITIES INDICATED ON THE PLANS, THEN PLAN QUANTITIES SHALL GOVERN.

THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO INSTALL ALL MATERIALS COMPLETE AND IN PLACE AS SHOWN AND/OR SPECIFIED.

CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT BEFORE INSTALLATION OF THE IRRIGATION

ROUGH GRADE IN PLANTING BED AREA SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 2"-3" (MIN.) PRIOR TO INSTALLATION OF PLANT MATERIAL, IMPORTED TOPSOIL AND BOULDERS.

PROJECT ACCEPTANCE. REPLACE ANY PLANT WHICH DIES WITHIN TWO WEEKS WITH PLANTS EQUAL TO ORIGINAL MATERIALS USED EXCEPT FOR PLANT LOSSES DUE TO VANDALISM, ACTS OF NATURE, OR NEGLECT

AND INSTALL REQUIRED SOIL AMENDMENTS. (4 1/2" BELOW TOP OF CURB IN PLANTING AREA)

ANY IMPORTED TOPSOIL REQUIRED FOR INSTALLATION TO ESTABLISHMENT OF ROUGH GRADE OR FINISH

ROCK MULCH SHALL BE A 3"-8" WASHED & CLEANED ROUND RIVER COBBLE. MULCH DEPTH TO BE 4"-6" MIN. AND TO BE INSTALLED IN ALL PLANTING AREAS.

ALL PLANTING BEDS SHALL BE STRIPPED AND CLEARED OF ALL LAWN, ROOTS, WEEDS, AND DEBRIS AND SHALL BE RAKED TO A SMOOTH AND EVEN GRADE PRIOR TO PLANT MATERIAL INSTALLATION.

TO THE PLANS AND APPROVED BY THE PROJECT MANAGER OR OWNER'S REPRESENTATIVE BEFORE INSTALLATION.

PLANT MATERIAL. DO NOT DISTURB ROOTBALLS. REMOVE ANY EXCESS SOIL ON PERENNIALS THAT HAS ACCUMULATED DURING THE PACKAGING & SHIPPING PROCESS,

ALL PREPARED SOIL AREAS.

ALL PLANT MATERIAL TO BE #1 GRADE NURSERY STOCK AND MEET CURRENT INDUSTRY QUALITY STANDARDS ADOPTED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, ANSI Z60 AND NRS 555 (REGULATIONS OF NURSERY AND NURSERY STOCK). ALL TREES TO INCLUDE THE FOLLOWING.

- TO BE INSECT AND DISEASE FREE, RODENT AND MECHANICAL DAMAGE FREE.

ALL PLANTING BEDS SHALL HAVE POSITIVE DRAINAGE AWAY FROM ALL CENTER OF ISLAND.

ANY SUBSTITUTION OF PLANT MATERIAL TO BE SUBMITTED IN WRITING FOR APPROVAL BY THE PROJECT

AN ACCEPTABLE STANDARD, THE CONTRACTOR SHALL NOTIFY CARSON CITY IN WRITING. OTHERWISE THE

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE MAINTENANCE OF THE ENTIRE IRRIGATION SYSTEM \$ ALL LANDSCAPING UNTIL FINAL PROJECT ACCEPTANCE, AFTER FINAL PROJECT ACCEPTANCE ALL PROJECT MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE CARSON CITY PARKS & RECREATION DEPARTMENT.

GENERAL LANDSCAPE NOTES:

CONFIRMING ALL NUMBERS, SIZES, AND PLANT AVAILABILITY PRIOR TO SUBMITTING BID.

ROUGH GRADE, FINISH GRADE AND ALL BERM LOCATION/SHAPES SHALL BE ESTABLISHED BY THE

SYSTEM, SITE ELEMENTS, ROCK MULCH OR ANY PLANT MATERIAL.

ALL PLANT MATERIALS SHALL BE #1 GRADE NURSERY STOCK AND WARRANTED FOR ONE YEAR AFTER FINAL

THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE PLANTING BED AREA TO ESTABLISH ROUGH GRADE

GRADE SHALL BE NEVADA ORGANIC PREMIUM TOPSOIL MIX OR AN APPROVED EQUAL.

INSTALL DEWITT PRO 5 LANDSCAPE FABRIC OR AN APPROVED EQUAL UNDER ALL MULCH AREAS. SECURE TO ROUGH GRADE. DO NOT LEAVE EXPOSED.

ALL PLANTING PITS SHALL BE EITHER HAND OR BACKHOE DUG (NO AUGER). THE BOTTOM AND SIDES OF THE PLANTING PITS SHALL BE SCARIFIED BEFORE INSTALLATION OF THE PLANT MATERIAL, HOLES SHALL BE 3 TIMES AS WIDE AS THE ROOTBALL DIAMETER, THE SAME DEPTH AS THE ROOTBALL AND BACKFILLED WITH

"I.B.D.U." WATER SOLUBLE STARTER PLANT FERTILIZER BAGS/TABLETS OR AN APPROVED EQUAL SHALL BE INSTALLED IN ALL PLANTING PITS. USE 1 PER 1-GALLON CONTAINER, AND 3 PER 5-GALLON CONTAINER.

CONTRACTOR TO APPLY A PRE-EMERGENT HERBICIDE THROUGHOUT ALL ROCK MULCH AREAS PRIOR TO PLACING MULCH. ADD RONSTAR GRANULAR PRE-EMERGENT HERBICIDE PER MANUFACTURER'S WRITTEN RECOMMENDATIONS PRIOR TO INSTALLING WEED FABRIC AND ROCK MULCH.

FINAL LOCATION OF ALL LANDSCAPE PLANT MATERIAL SHALL BE SET BY THE CONTRACTOR ACCORDING

NO PLANTS SHALL BE PLACED TO CONFLICT OR CREATE CONFLICT W/ SIGNS, LIGHTS, UTILITIES, ETC. IF PLANT LOCATION WILL CAUSE A CONFLICT, CONTACT THE PROJECT MANAGER.

THE CONTRACTOR SHALL REMOVE ALL BURLAP, TWINE, TIES, CONTAINERS AND WIRE BASKETS FROM ALL

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROVIDE EFFECTIVE DUST CONTROL OF

- NO GIRDLING, KINKED, CIRCLING OR "J" ROOTS.

- ROOTS, BARK AND SHOOT GROWTH TO GIVE EVIDENCE OF GOOD VIGOR. - ANY REPLACEMENT OF PLANT STOCK TO BE EQUAL TO ORIGINAL SPECIFICATION AND APPROVED BY THE PROJECT MANAGER.

A 48 HR. MIN. NOTICE TO THE PROJECT MANAGER AND CARSON CITY PARKS AND RECREATION DEPARTMENT (175) 887-2262 IS REQUIRED FOR PLANT MATERIAL, LAYOUT REVIEW PRIOR TO PLANTING.

THE CONTRACTOR SHALL INSPECT THE SITE REGULARLY TO REVIEW THE CONDITION OF ALL PLANTINGS. IF ANY CHANGES IN THE OVERALL MAINTENANCE PROGRAM ARE REQUIRED TO IMPROVE THE CONDITIONS TO CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR THE CONDITION OF THE PLANTINGS AND MUST HONOR THE GUARANTEE. ANY PLANTS REPLACED UNDER THIS GUARANTEE SHALL BE GUARANTEED FOR ONE FULL YEAR FROM THE DATE OF REPLACEMENT.

CIT DEP,

CARSON WORKS



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EXPIRES: 6-30-15

LS2

