

WEST EIGHTH STREET SEWER REPLACEMENT PROJECT

MINNESOTA TO CURRY STREET CARSON CITY, NEVADA - SECTION 17, T15N, R20E PROJECT 05-1403.4

BOARD OF SUPERVISORS

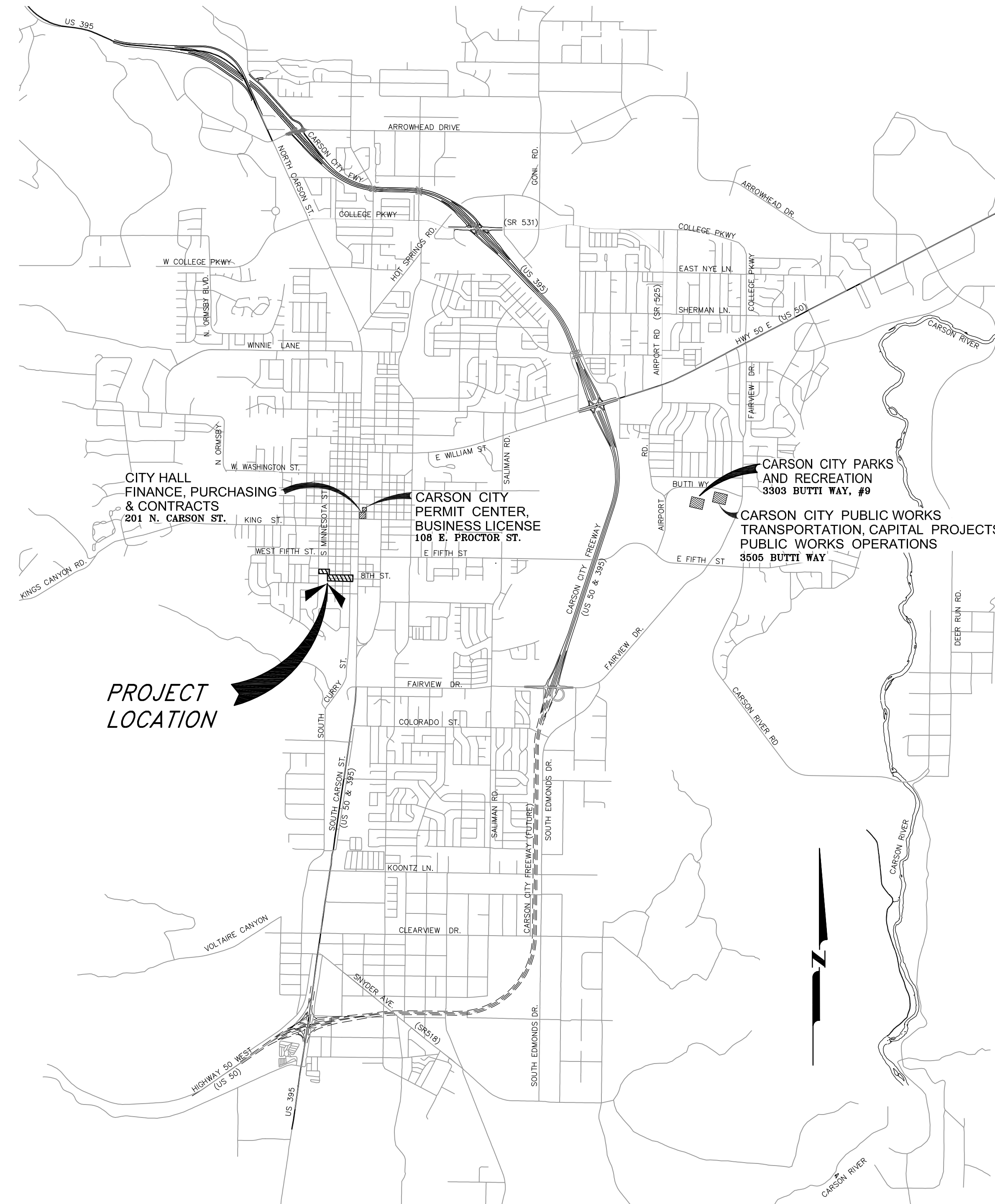
Robert L. Crowell Mayor
Brad Bonkowski Supervisor
Karen Abowd Supervisor
Lori Bagwell Supervisor
Jim Shirk Supervisor
Sue Merriwether City Clerk

DESIGNED FOR:

CARSON CITY PUBLIC WORKS DEPARTMENT
3505 BUTTI WAY
CARSON CITY, NV 89701
(775) 887-2355

GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (SSPWC) AND THE "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" (SDPWC) AS ADOPTED BY CARSON CITY. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR PUBLIC WORKS CONSTRUCTION FROM THE CARSON CITY PERMIT CENTER PRIOR TO THE START OF CONSTRUCTION.
- ALL TRAFFIC CONTROL AND BARRICADING WITHIN THE CARSON CITY RIGHT-OF-WAY SHALL CONFORM TO SECTION 100.33, 332.04 AND 332.05 OF THE STANDARD SPECIFICATIONS, PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE UNR T2 CENTER, TEMPORARY TRAFFIC CONTROL GUIDELINES LATEST EDITION. A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CARSON CITY ENGINEERING DIVISION PRIOR TO ANY STREET CLOSURES.
- THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT "CALL BEFORE YOU DIG" (811) OR (1-800-227-2600) AT LEAST TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION AND COMPLY WITH THE REQUIREMENTS OF NRS AND NAC 455 THROUGHOUT THE COURSE OF THE WORK, SEWER SERVICE LATERALS ARE NOT OWNED OR MARKED BY CARSON CITY.
- THE CONTRACTOR SHALL CALL THE CARSON CITY ENGINEERING DIVISION (887-2300) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL ONE (1) WORKING DAY PRIOR TO REQUIRED INSPECTIONS AND TESTING. THE REQUIRED INSPECTIONS AND TESTING ARE LISTED ON THE INSPECTION RECORD ISSUED WITH EACH PERMIT. THE CONTRACTOR MUST HAVE THE PERMIT NUMBER AND THE DESCRIPTION LISTED ON THE INSPECTION RECORD TO SCHEDULE REQUIRED INSPECTIONS AND TESTING. FOR CITY CONTRACTED PROJECTS, THE CONTRACTOR SHALL SCHEDULE INSPECTIONS PER THE CONTRACT DOCUMENTS.
- FINAL INSPECTIONS WILL BE PERFORMED BY CARSON CITY ENGINEERING DIVISION ACCORDING TO THE CARSON CITY INSPECTIONS AND TESTING PROCEDURES. NOTE: THESE PROCEDURES REQUIRE SUBMITTAL OF RECORD DRAWING PRINTS BY THE CONTRACTOR AND 10 WORKING DAYS TO PREPARE A FINAL PUNCH LIST. ALL CONDITIONS OF THE FINAL INSPECTION MUST BE COMPLETED PRIOR TO FINAL ACCEPTANCE OR ANY APPROVAL OF A CERTIFICATE OF OCCUPANCY BY THE CARSON CITY ENGINEERING DIVISION.
- MODIFICATIONS TO THE APPROVED PLANS REQUIRES REVIEW AND APPROVAL BY THE CARSON CITY ENGINEERING DIVISION. WORK PERFORMED WITHOUT WRITTEN APPROVAL BY CARSON CITY ENGINEERING WILL REQUIRE REMOVAL AT THE CONTRACTOR'S EXPENSE.
- THE APPROVED PLAN, PERMIT AND INSPECTION RECORD MUST BE ON THE JOB SITE AT ALL TIMES.
- PLAN APPROVAL FOR SEWER AND WATER CONSTRUCTION SHALL EXPIRE ONE YEAR FROM DATE OF APPROVAL UNLESS CONSTRUCTION HAS BEEN INITIATED. (CCMC 12.06.180F, 12.01.140D)
- THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ACQUIRING A STORMWATER DISCHARGE PERMIT FROM THE NEVADA DIVISION OF ENVIRONMENTAL PROTECTION (NDEP) INCLUDING DEVELOPING, SUBMITTING AND IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL DEVELOP, PLACE AND MAINTAIN STORM WATER PROTECTION DEVICES IN COMPLIANCE WITH THE NEVADA CONTRACTORS FIELD GUIDE FOR CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (JUNE 2008).
- THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS IS BASED ON THE BEST INFORMATION AVAILABLE TO THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE LOCATIONS AT THE PROPOSED POINTS OF CONNECTIONS AND IN AREAS OF POSSIBLE CONFLICT WITH NEW UTILITY INSTALLATION, PRIOR TO BEGINNING CONSTRUCTION. POT-HOLING IS REQUIRED. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, HE SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
- THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF PROPER SHORING OF TRENCHES IN ACCORDANCE WITH OCCUPATIONAL SAFETY LAWS. THE DUTIES OF THE ENGINEER DO NOT INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY IN, ON, OR NEAR THE CONSTRUCTION SITE.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- ALL PVC WATER PIPELINES ARE TO BE DISINFECTED ACCORDING TO AWWA STANDARD C651 PER NAC 445A.67145 (b)(6) AND PRESSURE TESTED ACCORDING TO AWWA STANDARD C605 PER NAC 445A.67145 (7)(b).



VICINITY MAP
N.T.S.

SHEET INDEX

- G1 TITLE SHEET
- G2 LEGEND, ABBREVIATIONS & NOTES
- G3 HORIZONTAL & VERTICAL CONTROL PLAN
- C1 WEST SEVENTH STREET ALLEY
PLAN & PROFILE
- C2 NORTH MINNESOTA STREET &
WEST EIGHTH STREET PLAN & PROFILE
- C3 WEST EIGHTH STREET PLAN & PROFILE
- C4-5 CONSTRUCTION DETAILS

DESIGNED BY: DA/DLO	DRAWN BY: DLO	CHECKED BY: DA/DLR	DWG NO.: 05-1403-1-1.dwg	SCALE (HORIZ): N/A	SCALE (VERT): N/A	PLOT DATE: 3/3/15
CARSON CITY DEPARTMENT PUBLIC WORKS DEPARTMENT						
3505 BUTTI WAY CARSON CITY, NEVADA 89701 PH: 887-2355 FAX: 887-2112						
BY: APP'D						
DESCRIPTION						
REV.	DATE					
WEST EIGHTH STREET SEWER REPLACEMENT PROJECT PROJECT No. 05-1403.4						
TITLE SHEET						
SHEET G1 OF 8						

Call before you Dig
Avoid cutting underground utility lines. It's costly.

Call 811
OR
1-800-227-2600

PERMIT NO. XX-XXXX

I:\CAPITAL PROJECTS\Project051403.4-890505.dwg(02.dwg) DWG(05-1403-1-1.dwg) 3/3/15

LEGEND

EXISTING	PROPOSED	
	PT #	BENCH MARK
		WATER VALVE
		WATER LINE
		WATER METER
		FIRE HYDRANT
		EDGE OF PAVEMENT
	8" SS	SEWER LINE
		SEWER LATERAL
	(S)	SANITARY SEWER MANHOLE
	(CO)	SANITARY SEWER CLEANOUT
	(18" SD)	STORM DRAIN CULVERT
	(SD)	STORM DRAIN MANHOLE
		SAWCUT LINE
	2%	DIRECTION OF DRAINAGE FLOW
		DRAINAGE SWALE
		GAS LINE
		GAS METER
		GAS VALVE
		OVERHEAD ELECTRIC LINE
		TELEPHONE LINE
		UTILITY POLE
		LUMINAIRE
		SIGN
	(3221)	CONTOUR LINES
		TREES AND SHRUBS
		PCC CURB & GUTTER TYPE 1
		ASPHALT PAVING
		PCC PAVEMENT
		FENCE LINE
		STORM DRAIN INLET PROTECTION

ABBREVIATIONS

AC	ASPHALTIC CONCRETE	S	SLOPE, SOUTH
C&G	CURB & GUTTER	SCH	SCHEDULE
CONC	CONCRETE	SD	STORM DRAIN
CONN	CONNECTION	SDMH	STORM DRAIN MANHOLE
DI	DROP INLET/DUCTILE IRON	SDR	STANDARD DIMENSION RATIO
DIA, Ø	DIAMETER	SF	SQUARE FEET
DWG	DRAWING	SS	SANITARY SEWER
DWY	DRIVEWAY	SSCO	SANITARY SEWER CLEANOUT
E	EAST	SSMH	SANITARY SEWER MANHOLE
EA	EACH	SSPWC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
EG	EXISTING GROUND	STA	STATION
EL, ELEV	ELEVATION	STD	STANDARD
EXIST, EX	EXISTING	STL	STEEL
FES	FLARED END SECTION	T, TELE	TELEPHONE
FG	FINISHED GRADE	TBC	TOP BACK OF CURB
FL	FLOWLINE	TYP	TYPICAL
FT	FEET	U/G	UNDERGROUND
G	GAS	VERT	VERTICAL
HORIZ	HORIZONTAL	W	WEST, WATER
HYD	HYDRANT	W/	WITH
IE, INV	INVERT ELEVATION	W/O	WITHOUT
LAT	LATERAL	WV	WATER VALVE
LF	LINEAL FEET	X'ING	CROSSING
LT	LEFT		
MAX	MAXIMUM		
MH	MANHOLE		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
N	NORTH		
NTS	NOT TO SCALE		
OHE	OVERHEAD ELECTRIC		
PC	POINT OF CURVATURE		
PCC	POINT OF COMPOUND CURVATURE		
PRC	POINT OF REVERSE CURVATURE		
PT	POINT OF TANGENCY		
PVC	POLYVINYL CHLORIDE		
PVMT	PAVEMENT		
Q	FLOW (CFS)		
RCP	REINFORCED CONCRETE PIPE		
RT	RIGHT		

- ALL SEWER MAINS AND LATERALS IN THE RIGHT-OF-WAY/EASEMENT SHALL BE PVC SDR35 UNLESS OTHERWISE NOTED.
- NON-FLEXIBLE TRANSITION COUPLINGS ARE REQUIRED WHEN CONNECTING NEW SEWER LINES TO EXISTING LINES AND/OR FITTINGS, SEE DWG. C-2.1.6.
- THE CONTRACTOR SHALL INSTALL A PLUG AT THE POINT OF EXTENSION OF A SEWER MAIN PRIOR TO THE START OF CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL ALL LINES HAVE BEEN INSPECTED, TESTED, CLEANED AND FLUSHED. REMOVAL OF THE PLUG BY THE CONTRACTOR PRIOR TO APPROVAL IS A VIOLATION OF THE CARSON CITY MUNICIPAL CODE AND MAY RESULT IN FINES UP TO \$1,000 A DAY.
- SEWER LINES SHALL BE TESTED PER SECTION 336.03.07 OF THE SSPWC AS ADOPTED BY CARSON CITY. AN AIR PRESSURE TEST PER SECTION 336.03.07.4 AND A DEFLECTION TEST PER SECTION 336.03.09 OF THE CARSON CITY AMENDMENT TO THE SSPWC SHALL BE PERFORMED ON ALL SEWER LINES.
- MARKING TAPE SHALL BE INSTALLED 12 INCHES ABOVE ALL SEWER MAINS AND LATERALS. TAPE WIDTH SHALL BE 3 INCHES; THICKNESS SHALL BE FOUR 4 MIL OR GREATER AND SHALL BE GREEN AND BEAR LARGE PRINTING DENOTING "CAUTION BURIED SEWER LINE BELOW" OR EQUIVALENT WORDING.
- TRACER WIRE SHALL BE ATTACHED TO ANY SEWER LATERAL WHICH IS NOT PERPENDICULAR TO THE SEWER MAIN. SEE DWG C-2.21

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
				DRAWING NO. C-2.1.1 (204, 306, 323)
				DATE 7/2009

APPROVED BY: 07/09

SEWER GENERAL NOTES

- NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED AND APPROVED BY CARSON CITY PUBLIC WORKS.
- PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: SYNTHETIC FIBER-REINFORCEMENT (AT A MINIMUM OF 1 POUND PER CUBIC YARD), WITH COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67 PER SECTION 200.05.03 OF THE STANDARD SPECIFICATIONS, AND SHALL HAVE A 1 TO 4 INCH SLUMP, AND 4 TO 7 PERCENT ENTRAINMENT AIR. 4000 PSI MIN COMPRESSIVE STRENGTH @ 28 DAYS, MIN 6 SACKS OF TYPE II 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. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- ALL CONCRETE EDGING AND JOINTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DETAIL C-5.1.1 AND CONFORM TO SEC. 312.09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
- IF OBSTRUCTIONS SUCH AS INLETS, UTILITY POLES, FIRE HYDRANTS, ETC. ARE ENCOUNTERED, THE LOCATION AND DIMENSIONS MAY BE ADJUSTED UPON APPROVAL BY CARSON CITY PUBLIC WORKS. A MINIMUM SURFACE OF 5 FEET X 5 FEET CLEAR IS REQUIRED WHEN DIRECTION OF TRAVEL MAY CHANGE AND A MINIMUM SURFACE OF 4 FEET CLEAR IS REQUIRED WHERE DIRECTION OF TRAVEL IS NOT EXPECTED TO CHANGE, UNLESS OTHERWISE APPROVED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
- EXISTING CONCRETE SHALL BE REMOVED TO A NEAT SAWCUT LINE OR NEAREST EXPANSION JOINT.
- ALL AGGREGATE BASE SHALL BE TYPE 2, CLASS B AND SHALL CONFORM TO SEC.200.01. OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
- NEW CONCRETE SHALL HAVE A HEAVY BROOM FINISH PERPENDICULAR TO SIDEWALK.
- AC PAVEMENT EDGE SHALL BE 1/4 INCH TO 1/2 INCH ABOVE THE LIP OF GUTTER. 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
				CARSON CITY
				DRAWING NO. C-5.2.1
				DATE 5/2014

APPROVED BY: 05/14

SIDEWALK AND DRIVEWAY GENERAL NOTES

- MANHOLE BASE(S) SHALL BE PRECAST UNLESS OTHERWISE APPROVED BY CARSON CITY PUBLIC WORKS. NO FIELD MODIFICATIONS TO PRECAST BASES WILL BE ALLOWED. TROUGHS AND BENCHES TO BE CAST IN BASE(S) AT PRECAST FACTORY. BASE CONFIGURATION TO BE INSTALLED AS SHOWN ON THE APPROVED PLANS. NO PLUGGING OR FIELD MODIFYING ALLOWED.
- PRECAST MANHOLE COMPONENTS SHALL CONFORM TO ASTM C-478.
- ARRANGE MANHOLE SECTION LENGTHS TO FIT DEPTH. ALL SHIMS TO BE REMOVED AND VOIDS GROUTED.
- PIPES SHALL NOT PROTRUDE MORE THAN 3 INCHES INSIDE MANHOLE SECTION, AS MEASURED FROM THE INSIDE WALL AT THE SPRING LINE OF THE PIPE.
- MANHOLE MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF SECTION 204 "MANHOLES AND CATCH BASINS" OF THE STANDARD SPECIFICATIONS.
- PRECAST MANHOLE SECTIONS, OTHER THAN GRADE RINGS, SHALL BE JOINED WITH FLEXIBLE PLASTIC GASKET MATERIAL SUCH AS "RAM-NEK" OR EQUAL AS PER MANUFACTURER'S RECOMMENDATIONS.
- EXCAVATION AND BACKFILL SHALL BE AS SPECIFIED FOR "TRENCH EXCAVATION AND BACKFILL" IN SECTION 305 OF THE STANDARD SPECIFICATIONS. (SEE C-1.2.1)
- NO SEWER LINE PIPE WITH A DIAMETER OF LESS THAN 8 INCHES SHALL BE CONNECTED TO A MANHOLE WITHOUT THE APPROVAL OF THE CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
- MATCH PIPE INVERTS TO MANHOLE INVERTS WHERE PIPES CONNECT TO MANHOLE BASE.
- ALL MANHOLES SHALL BE SEALED WATER TIGHT. COVERS SHALL HAVE NO "THRU" HOLES. CLOSED PICK HOLES ONLY: SOUTH BAY FOUNDRY 1900 CPH OR APPROVED EQUAL.
- COAT OUTSIDE OF SEWER MANHOLE WITH FLEXIBLE RUBBERIZED COATING WHEN GROUNDWATER IS ENCOUNTERED.
- PRIOR TO BACKFILLING, ALL MANHOLES SHALL BE VACUUM TESTED PER THE REQUIREMENTS OF ASTM C-1244.
- NO STEPS, LADDERS OR OTHER CLIMBING DEVICES SHALL BE INSTALLED IN MANHOLES.
- MANHOLES LOCATED OUTSIDE PAVED AREAS SHALL REQUIRE ALL WEATHER ACCESS ROADWAY CONSISTING OF 6 INCH TYPE 2, CLASS B AGGREGATE BASE (CONFORMING TO THE SSPWC SECTION 200.01.02) AND SEWER MANHOLE MARKERS SHALL BE INSTALLED. SEWER MANHOLE MARKERS SHALL BE GREEN CARSONITE UTILITY MARKER (CUM 375), 5 FEET-2 INCHES (5'-2") WITH MANHOLE DECAL (688-MH) OR APPROVED EQUAL. PLACE MARKERS ON EASEMENT LINE NEAREST TO MANHOLE OR AS DIRECTED BY THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR.
- SEWER MANHOLES SHALL BE VACUUM TESTED PER SECTION 3002 OF THE TECHNICAL SPECIFICATIONS AND IN ACCORDANCE WITH THE CARSON CITY SSPWC, LATEST EDITION.
- WHEN PIPE CONNECTIONS TO EXISTING MANHOLES ARE ALLOWED, THEY SHALL BE MADE BY CORE DRILLING THE MANHOLE AND CONNECTING THE PIPE PENETRATION WITH AN NPC KOR-N-SEAL PIPE-TO-MANHOLE CONNECTOR OR A LINK-SEAL MODULAR SEAL.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
				DRAWING NO. C-2.1.2 (204,306,323)
				DATE 7/2009

APPROVED BY: 07/09

SEWER MANHOLE NOTES (MODIFIED)

- WATER MAIN SHUTDOWNS/INTERRUPTION OF WATER/FIRE SERVICE: OBTAIN TENTATIVE APPROVAL FROM CARSON CITY WATER UTILITY PRIOR TO PLANNING A SHUTDOWN. APPROVAL IS REQUIRED ONE WORKING DAY PRIOR TO NOTIFICATION OF CUSTOMERS. COMMERCIAL CUSTOMERS SHALL RECEIVE 2 WORKING DAYS WRITTEN AND VERBAL NOTICE OF A SHUTDOWN. SPECIAL ARRANGEMENTS INCLUDING NIGHT TIME SHUTDOWNS MAY BE REQUIRED OF THE CONTRACTOR TO ACCOMMODATE CUSTOMER OPERATIONS. RESIDENTIAL CUSTOMERS SHALL RECEIVE 24 HOURS WRITTEN NOTICE. WHEN WORK IS PERFORMED BY CITY STAFF, THE CITY IS RESPONSIBLE FOR THE NOTIFICATION. THE CONTRACTOR IS RESPONSIBLE IN ALL OTHER CASES. A LIST SHALL BE KEPT BY THE RESPONSIBLE PARTY LISTING THE DATE, TIME AND ADDRESS OF ALL PERSONS NOTIFIED. THE PERSON NOTIFIED SHALL BE INCLUDED ON THE LIST FOR ALL COMMERCIAL CUSTOMERS. CONTACT CARSON CITY WATER UTILITY FOR PHONE NUMBERS WHEN COMMERCIAL CUSTOMERS CANNOT BE LOCATED. THE CONTRACTOR WILL BE SUBJECT TO DAMAGE CLAIMS SHOULD THEY FAIL TO NOTIFY CUSTOMERS OR MAINTAIN DOCUMENTATION OF NOTIFICATION OF CUSTOMERS. THE TOTAL TIME OF ANY WATER SERVICE INTERRUPTION IS LIMITED TO 4 HOURS MAXIMUM. THE CONTRACTOR SHALL NOT OPERATE ANY EXISTING WATER VALVES. WATER MAIN SHUTDOWNS WILL ONLY BE SCHEDULED FOR TUESDAYS, WEDNESDAYS, OR THURSDAYS, EXCLUDING THE WORKING DAYS BEFORE AND AFTER A HOLIDAY. CONTRACTOR SHALL MAKE A WRITTEN REQUEST TO THE WATER OPERATIONS CHIEF, A MINIMUM OF 10 CALENDAR DAYS IN ADVANCE OF ANY PLANNED SHUTDOWN.
- WATER MAINS (6 INCH THRU 12 INCH) SHALL BE PVC C900, DR 18 (MINIMUM WALL THICKNESS) UNLESS HIGHER PRESSURE IS SPECIFIED ON THE PLANS. WATER SERVICES 2 INCHES OR GREATER SHALL BE CTS, PE TUBING MINIMUM 200 PSI; WATER SERVICES 3 INCHES OR GREATER SHALL BE 4 INCH MINIMUM DIAMETER PVC C900, DR 18 OR AS SPECIFIED ON THE PLANS.
- MAINTAIN 18 INCHES VERTICAL AND 5 FEET HORIZONTAL SEPARATION BETWEEN ALL UNDERGROUND UTILITY LINES AND WATER LINES. IF WATER LINE IS BELOW POWER LINE OR IS WITHIN 18 INCH VERTICAL SEPARATION OF POWER LINE, POWER/TELEPHONE LINE SHALL BE ENCASED WITH 4 INCHES MINIMUM OF CONCRETE EXTENDING 5 FEET EACH SIDE OF CROSSING. (SEE NV ENERGY SPECS.) CONCRETE ENCASEMENT OF WATER LINES IS NOT ALLOWED.
- ALL HOT TAPS, GREATER THAN 2 INCHES AND LESS THAN 12 INCHES, ARE TO BE PERFORMED BY CARSON CITY WATER UTILITY. THE CONTRACTOR SHALL CONTACT THE WATER OPERATIONS CHIEF AT LEAST 2 WORKING DAYS PRIOR TO SCHEDULING HOT TAP DATE AND TIME (HOT TAPS ARE PERFORMED TUESDAY THRU THURSDAY EXCLUDING THE WORKING DAYS BEFORE AND AFTER A HOLIDAY). PRIOR TO HOT TAPPING, THE SADDLE SHALL BE HYDROSTATICALLY PRESSURE TESTED TO 150 PSI MINIMUM OR THE DESIGN OF PIPE SYSTEM FOR A MINIMUM OF 5 MINUTES. THE TEST SHALL BE PERFORMED IN THE PRESENCE OF THE WATER UTILITY PERSONNEL PRIOR TO PERFORMING THE TAP. ALL TAPPING EQUIPMENT SHALL BE DISINFECTED AND INSPECTED BY CITY FORCES PRIOR TO TAPPING A CITY MAIN.
- WATER VALVE MARKERS SHALL BE BLUE CARSONITE UTILITY MARKER (CUM-375), 5 FEET-2 INCHES (5'-2") WITH CARSON CITY WATER VALVE DECAL (CWV-116) OR APPROVED EQUAL. PLACE MARKER NO MORE THAN 5 FEET FROM THE VALVE OR AS DIRECTED BY THE CARSON CITY INSPECTOR.
- REDUCED PRESSURE PRINCIPLE AND DOUBLE CHECK VALVE BACKFLOW ASSEMBLIES SHALL BE APPROVED BY THE CARSON CITY INSPECTOR, AND TESTED BY A CERTIFIED BACKFLOW ASSEMBLY TESTER, AND TEST RESULTS SHALL BE APPROVED BY CARSON CITY WATER UTILITY FOR NEW WATER METER SETS. THE REQUIRED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED, INSPECTED, APPROVED AND CERTIFIED TEST RESULTS PROVIDED TO THE CARSON CITY INSPECTOR WITHIN 5 DAYS OF METER SET, UNLESS THE CARSON CITY ENGINEER OR PUBLIC WORKS DIRECTOR OTHERWISE APPROVES. THE SERVICE WILL BE LOCKED OFF IF INSPECTIONS AND CERTIFICATIONS ARE NOT COMPLETED AS SPECIFIED ABOVE. A 25 DOLLAR FEE WILL BE ASSESSED AT TIME OF TURN-ON WHEN LOCK IS REMOVED DURING NORMAL WORKING HOURS. THE FEE WILL BE ASSESSED ON THE BUILDING PERMIT FOR THE INSTALLATION OF THE BACKFLOW DEVICE.
- ALL WATER MAIN, WATER/FIRE SERVICE, AND BACKFLOW PREVENTION INSPECTIONS AND TESTING MUST BE APPROVED PRIOR TO APPROVAL OF ANY CERTIFICATE OF OCCUPANCY.
- DISINFECTION TABLETS SHALL BE PLACED USING TIEBOND MULTI-PURPOSE CLEAR 100% SILICONE OR APPROVED EQUAL FOOD GRADE SILICONE

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				CARSON CITY
				DRAWING NO. C-3.1.1 (307)
				DATE 5/2014

APPROVED BY: 05/14

WATER GENERAL NOTES

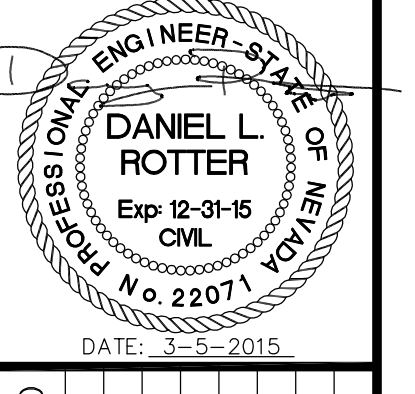
CONSTRUCTION NOTES (MASTER LIST)

- INSTALL 6" PVC SDR35 SEWER LINE PER STD. DRAWINGS C-1.2.1 AND C-2.1.1.
- INSTALL NEW 4" PVC SDR 35 SEWER LATERAL CONNECTION PER STD. DRAWING C-2.2.1. CONNECT TO EXISTING SEWER LATERAL WITH RIGID ROMAC 501 COUPLING, OR APPROVED EQUAL.
- REMOVE AND REPLACE EXISTING SANITARY SEWER MANHOLE WITH NEW 48 INCH MANHOLE PER STD. DRAWINGS C-2.1.2 AND C-2.1.3.
- INSTALL 8" PVC SDR 35 SEWER LINE PER STD. DRAWINGS C-1.2.1 AND C-2.1.1.
- REMOVE EXISTING SANITARY SEWER CLEANOUT. INSTALL DOUBLE SEWER CLEANOUT PER DETAIL 1, SHEET C4.
- REMOVE EXISTING SANITARY SEWER CLEANOUT AND REPLACE WITH NEW 48" SANITARY SEWER MANHOLE PER STD. DRAWINGS C-2.1.2 AND C-2.1.3.
- POTHOLE EX. GAS LINE TO VERIFY LOCATION AND DEPTH AT NEW UTILITY CROSSINGS.
- PROTECT IN PLACE
- PROVIDE "SPECIAL CONSTRUCTION" MITIGATION TO BOTH AFFECTED LINES. CENTER SEWER MAIN AT CROSSING AND MECHANICALLY RESTRAIN ANY EXPOSED WATER MAIN JOINTS PER THE WATER/SEWER SEPARATION GUIDELINES AND SPECIAL CONSTRUCTION/VERTICAL CROSSING CONFLICTS NOTES ON SHEET C4.
- LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING AC PAVEMENT SHALL BE PER STD. DRAWING C-5.1.6 (PAVEMENT PATCH) AND C-1.2.1 (TYPICAL TRENCH SECTION).
- REMOVE 12' WIDE AREA OF EXISTING ASPHALT DRIVEWAY. CONSTRUCT NEW ASPHALT DRIVEWAY PER SECTION A, SHEET C5.
- INSTALL 48" SANITARY SEWER MANHOLE PER STD. DRAWINGS C-2.1.2 AND C-2.1.3.
- REMOVE EXISTING SEWER MAIN, UNUSED LATERALS AND CLEANOUTS.
- INSTALL NEW PE WATER SERVICE LATERAL FROM MAIN TO WATER METER PER STD. DRAWINGS C-3.2.1 AND C-3.2.2. REPLACE EXISTING SIDEWALK AS NEEDED PER STD. DRAWING C-5.2.2.
- REMOVE EXISTING SEWER CLEANOUT.
- INSTALL STORM DRAIN INLET PROTECTION PER STD. DRAWING C-4.1.7.
- TRANSITION FROM 6" TO 4" SDR35 PVC PER STD. DRAWING C-2.1.6 ADJACENT TO AND UPSTREAM OF NEW MANHOLE.
- CONSTRUCT PCC DRIVEWAY APRON TYPE 2 PER MODIFIED STD. DRAWING C-5.2.4.
- INSTALL 4" PVC SDR35 SEWER LINE PER STD. DRAWINGS C-1.2.1 AND C-2.1.1.
- ENCASE SEWER MAIN IN EXCAVATABLE CONCRETE PER SECTION B, SHEET C5.
- REMOVE EXISTING SIDEWALK TO NEAREST JOINT. REPLACE WITH NEW PCC SIDEWALK PER STD. DRAWING C-5.2.2.

DESIGNED BY: DA/DLO
 DRAWN BY: DLO
 CHECKED BY: DA/DR
 DWG NO.: 05-1403-11-10-09
 SCALE (HORIZ): N/A
 SCALE (VERT): N/A
 PLOT DATE: 3/31/15

**CARSON CITY
PUBLIC WORKS DEPARTMENT**

3505 BUTTI WAY CARSON CITY, NEVADA 89701
 PH: 887-2355 FAX: 887-2112



NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
				CARSON CITY
				DRAWING NO. C-3.1.1 (307)
				DATE 5/2014

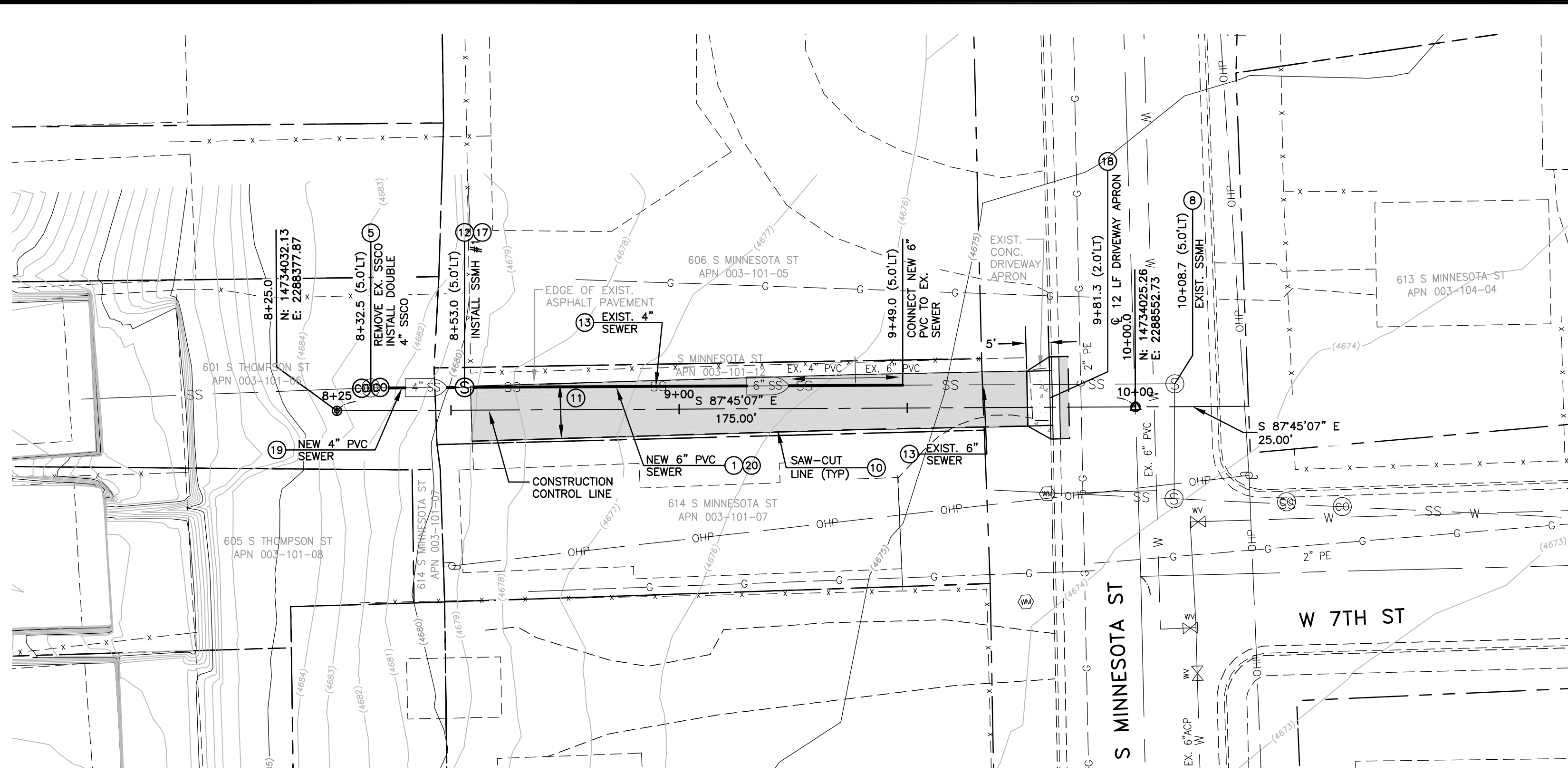
APPROVED BY: 05/14

WATER GENERAL NOTES

**WEST EIGHTH STREET
SEWER REPLACEMENT PROJECT
PROJECT No. 05-1403.4**

LEGEND, ABBREVIATIONS & NOTES

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PLAN - W SEVENTH STREET ALLEY

SCALE: 1" = 20' HORIZ.

THE CONTRACTOR SHALL USE DUE CARE IN INSTALLING SEWER MAINS, MANHOLES AND LATERALS. OFFSET STAKES SHALL BE PROVIDED FOR MAINS AT 100 FOOT MINIMUM INTERVALS. TWO OFFSET STAKES SHALL BE PROVIDED FOR EACH MANHOLE AND LATERAL LOCATION. PRIOR TO PLACEMENT OF MANHOLE SECTIONS OR BURYING OF LATERAL END PILLS, THE LOCATION AND ELEVATION OF EACH MANHOLE BASE AND LATERAL SHALL BE VERIFIED BY THE CARSON CITY INSPECTOR AND THE CONTRACTOR. SEWER MAINS, MANHOLES AND LATERALS INSTALLED AT LOCATIONS OTHER THAN AS SHOWN ON THE PLANS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. FOLLOWING INSTALLATION, SEWER MAINS WILL BE TELEVIEWED BY CARSON CITY PERSONNEL. ANY AREAS OF PONDING WATER WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

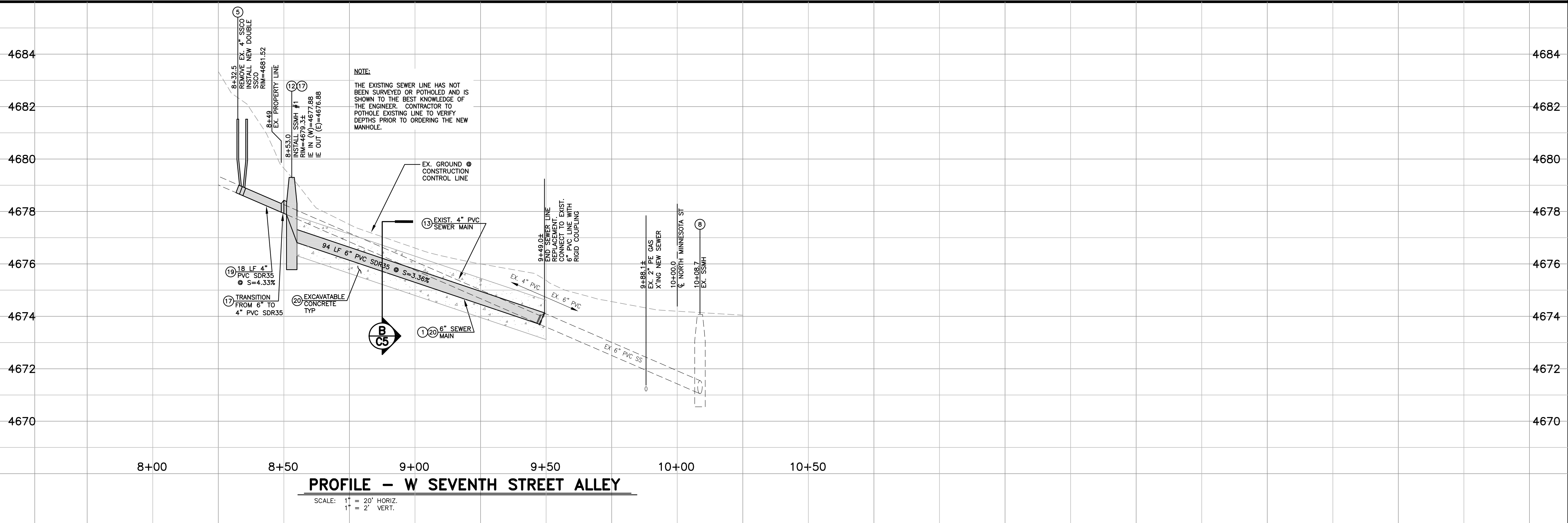
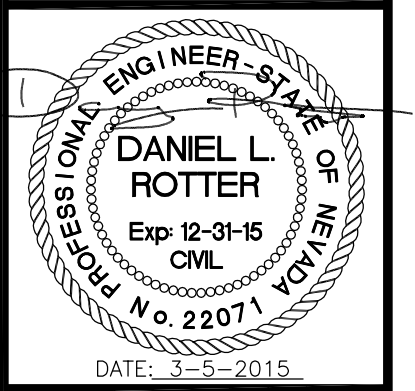
CONSTRUCTION NOTES (MASTER LIST)

1. INSTALL 6" PVC SDR35 SEWER LINE PER STD. DRAWINGS C-1.2.1 AND C-2.1.1.
5. REMOVE EXISTING SANITARY SEWER CLEANOUT. INSTALL DOUBLE SEWER CLEANOUT PER DETAIL 1, SHEET C4.
8. PROTECT IN PLACE
10. LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING AC PAVEMENT SHALL BE PER STD. DRAWING C-5.1.6 (PAVEMENT PATCH) AND C-1.2.1 (TYPICAL TRENCH SECTION).
11. REMOVE 12' WIDE AREA OF EXISTING ASPHALT DRIVEWAY. CONSTRUCT NEW ASPHALT DRIVEWAY PER SECTION A, SHEET C5.
12. INSTALL 48" SANITARY SEWER MANHOLE PER STD. DRAWINGS C-2.1.2 AND C-2.1.3.
13. REMOVE EXISTING SEWER MAIN, UNUSED LATERALS AND CLEANOUTS.
17. TRANSITION FROM 6" TO 4" SDR35 PVC PER STD. DRAWING C-2.1.6 ADJACENT TO AND UPSTREAM OF NEW MANHOLE.
18. CONSTRUCT PCC DRIVEWAY APRON TYPE 2 PER MODIFIED STD. DRAWING C-5.2.4.
19. INSTALL 4" PVC SDR35 SEWER LINE PER STD. DRAWINGS C-1.2.1 AND C-2.1.1.
20. ENCASE SEWER MAIN IN EXCAVATABLE CONCRETE PER SECTION B, SHEET C5.



DESIGNED BY: DA
 DRAWN BY: DLO
 CHECKED BY: DA/DLR
 DWG NO.: 051403.4-01.dwg
 SCALE (HORIZ): 1"=20'
 SCALE (VERT): 1"=2'
 PLOT DATE: 3/3/15

**CARSON CITY
 PUBLIC WORKS DEPARTMENT**
 3505 BUTTI WAY CARSON CITY, NEVADA 89701
 PH: 887-2355 FAX: 887-2112



PROFILE - W SEVENTH STREET ALLEY

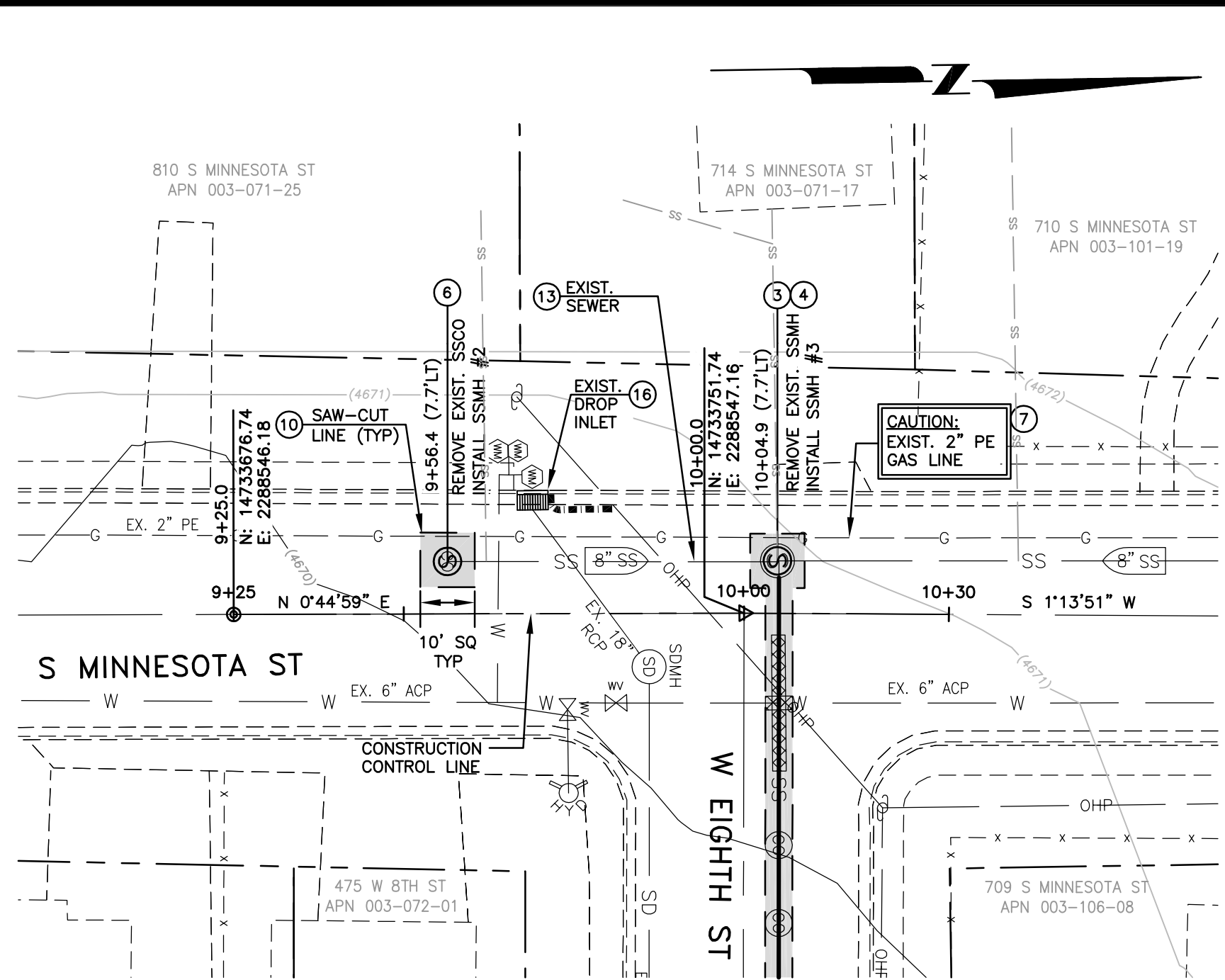
SCALE: 1" = 20' HORIZ.
 1" = 2' VERT.

REV.	DATE	DESCRIPTION

**WEST EIGHTH STREET
 SEWER REPLACEMENT PROJECT
 PROJECT No. 05-1403.4
 WEST SEVENTH STREET ALLEY
 PLAN & PROFILE
 STA 8+25 to STA 10+25**

SHEET
C1
 OF
08

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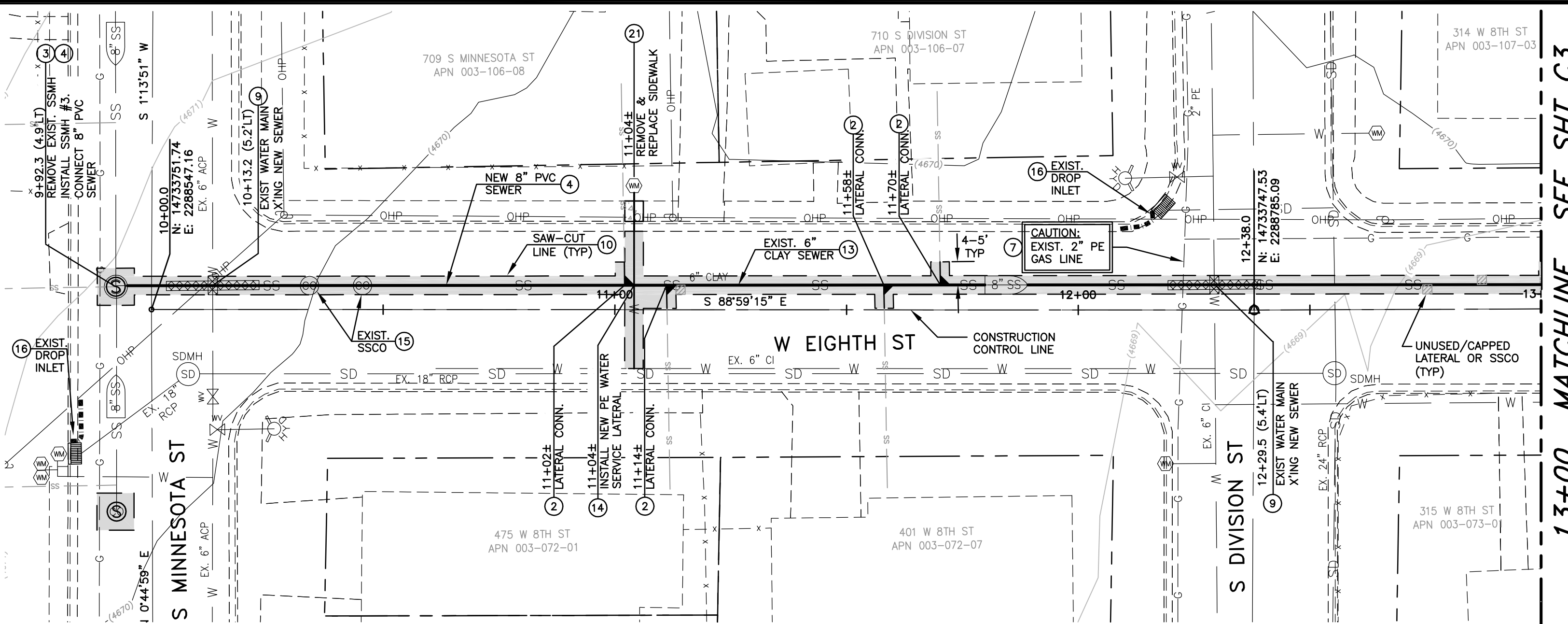


PLAN - S MINNESOTA STREET
SCALE: 1" = 20' HORIZ.
HORIZ. 1" = 20'

LEGEND

Areas of special construction per NDEP Bureau of Safe Drinking Water Vertical Crossing Conflicts Summary.

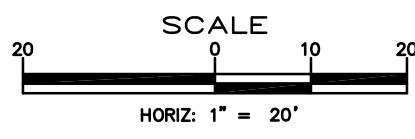
THE CONTRACTOR SHALL USE DUE CARE IN INSTALLING SEWER MAINS, MANHOLES AND LATERALS. OFFSET STAKES SHALL BE PROVIDED FOR MAINS AT 100 FOOT MINIMUM INTERVALS. TWO OFFSET STAKES SHALL BE PROVIDED FOR EACH MANHOLE AND LATERAL LOCATION PRIOR TO PLACEMENT OF MANHOLE SECTIONS OR BURYING OF LATERAL END PLUGS, THE LOCATION AND ELEVATION OF THE MAIN AND EACH MANHOLE BASE AND LATERAL SHALL BE VERIFIED BY THE CARSON CITY INSPECTOR AND THE CONTRACTOR. SEWER MAINS, MANHOLES AND LATERALS INSTALLED AT LOCATIONS FOR ELEVATIONS OTHER THAN AS SHOWN ON THE PLANS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. FOLLOWING INSTALLATION, SEWER MAINS WILL BE TELEVIEWED BY CARSON CITY PERSONNEL. ANY AREAS OF PONDING WATER WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.



PLAN - W EIGHTH STREET
SCALE: 1" = 20' HORIZ.

CONSTRUCTION NOTES

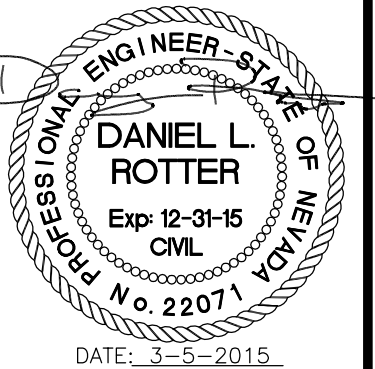
- 2) INSTALL NEW 4" PVC SDR 35 SEWER LATERAL CONNECTION PER STD. DRAWING C-2.2.1. CONNECT TO EXISTING SEWER LATERAL WITH RIGID ROMAC 501 COUPLING, OR APPROVED EQUIV.
- 3) REMOVE AND REPLACE EXISTING SANITARY SEWER MANHOLE WITH NEW 48 INCH MANHOLE PER STD. DRAWINGS C-2.1.2 AND C-2.1.3.
- 4) INSTALL 8" PVC SDR 35 SEWER LINE PER STD. DRAWINGS C-1.2.1 AND C-2.1.1.
- 5) REMOVE EXISTING SANITARY SEWER CLEANOUT AND REPLACE WITH NEW 48" SANITARY SEWER MANHOLE PER STD. DRAWINGS C-2.1.2 AND C-2.1.3.
- 6) POTHOLE EX. GAS LINE TO VERIFY LOCATION AND DEPTH AT NEW UTILITY CROSSINGS.
- 7) PROTECT IN PLACE
- 8) PROVIDE "SPECIAL CONSTRUCTION" MITIGATION TO BOTH AFFECTED LINES. CENTER SEWER MAIN AT CROSSING AND MECHANICALLY RESTRAIN ANY EXPOSED WATER MAIN JOINTS PER THE WATER/SEWER SEPARATION GUIDELINES AND SPECIAL CONSTRUCTION/VERTICAL CROSSING CONFLICTS NOTES ON SHEET C4.
- 9) LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING AC PAVEMENT SHALL BE PER STD. DRAWING C-5.1.6 (PAVEMENT PATCH) AND C-1.2.1 (TYPICAL TRENCH SECTION).
- 10) REMOVE EXISTING SEWER MAIN, UNUSED LATERALS AND CLEANOUTS.
- 11) INSTALL NEW PE WATER SERVICE LATERAL FROM MAIN TO WATER METER PER STD. DRAWINGS C-3.2.1 AND C-3.2.2. REPLACE EXISTING SIDEWALK AS NEEDED PER STD. DRAWING C-5.2.2.
- 12) REMOVE EXISTING SEWER CLEANOUT.
- 13) INSTALL STORM DRAIN INLET PROTECTION PER STD. DRAWING C-4.1.7.
- 14) REMOVE EXISTING SIDEWALK TO NEAREST JOINT. REPLACE WITH NEW PCC SIDEWALK PER STD. DRAWING C-5.2.2.



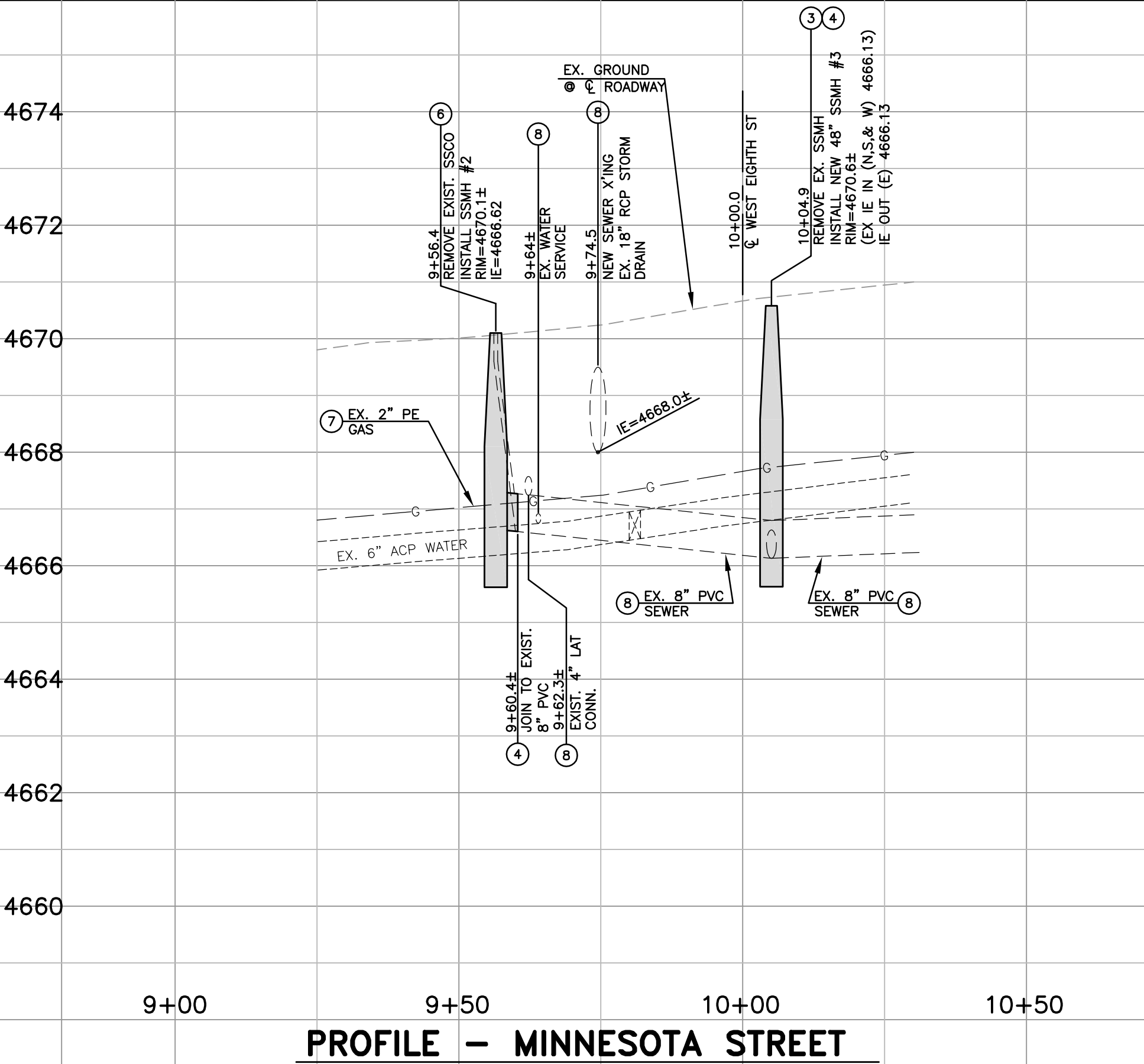
Call before you Dig
Avoid cutting underground utility lines. It's costly.
Call 811
OR
1-800-227-2600

DESIGNED BY: DA
DRAWN BY: DLO
CHECKED BY: DA/DLR
DWG NO.: 051403.4-01.dwg
SCALE (HORIZ): 1"=20'
SCALE (VERT): 1"=2'
PLOT DATE: 3/3/15

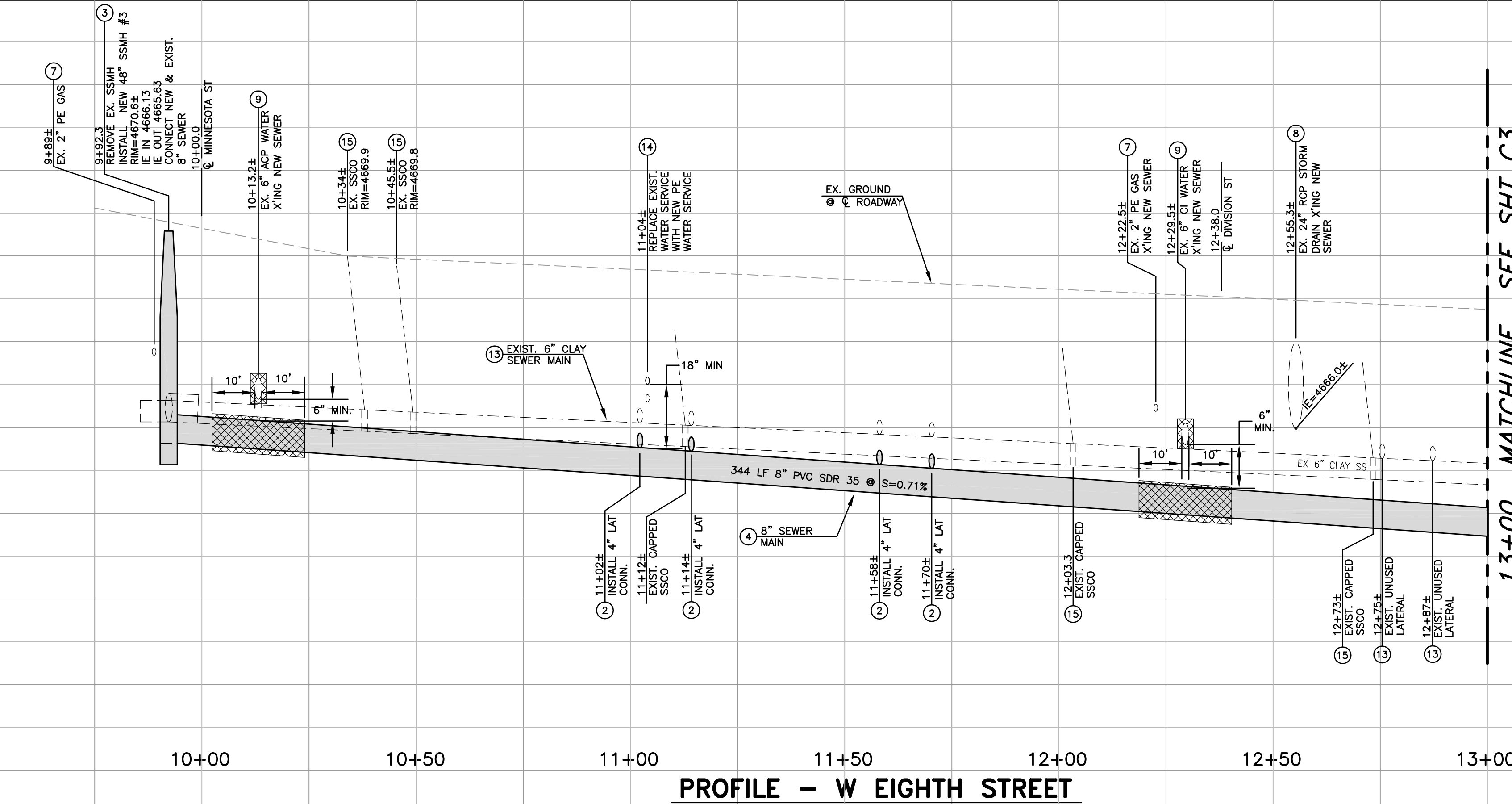
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3505 BUTTI WAY CARSON CITY, NEVADA 89701
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REV.	DATE	DESCRIPTION	BY	APP'D



PROFILE - MINNESOTA STREET
SCALE: 1" = 20' HORIZ.
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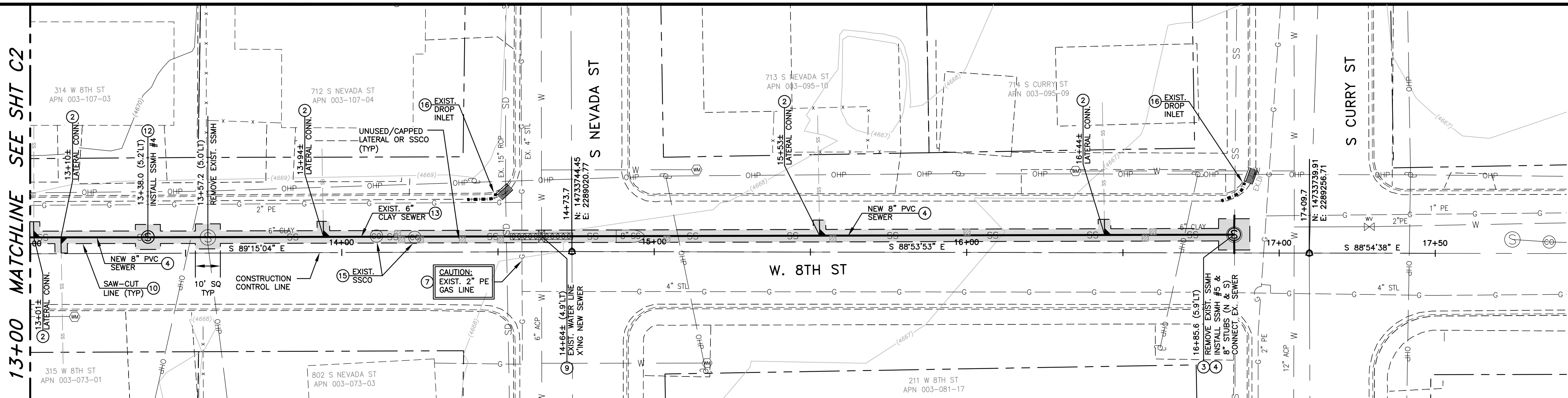


PROFILE - W EIGHTH STREET
SCALE: 1" = 20' HORIZ.
1" = 2' VERT.

WEST EIGHTH STREET SEWER REPLACEMENT PROJECT
PROJECT No. 05-1403.4
MINNESOTA STREET AND WEST EIGHTH STREET
PLAN & PROFILE

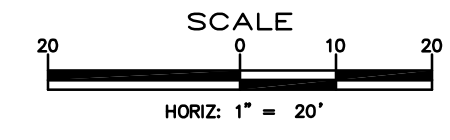
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13+00 MATCHLINE SEE SHT C2



PLAN - WEST EIGHTH STREET

SCALE: 1" = 20' HORIZ.



LEGEND

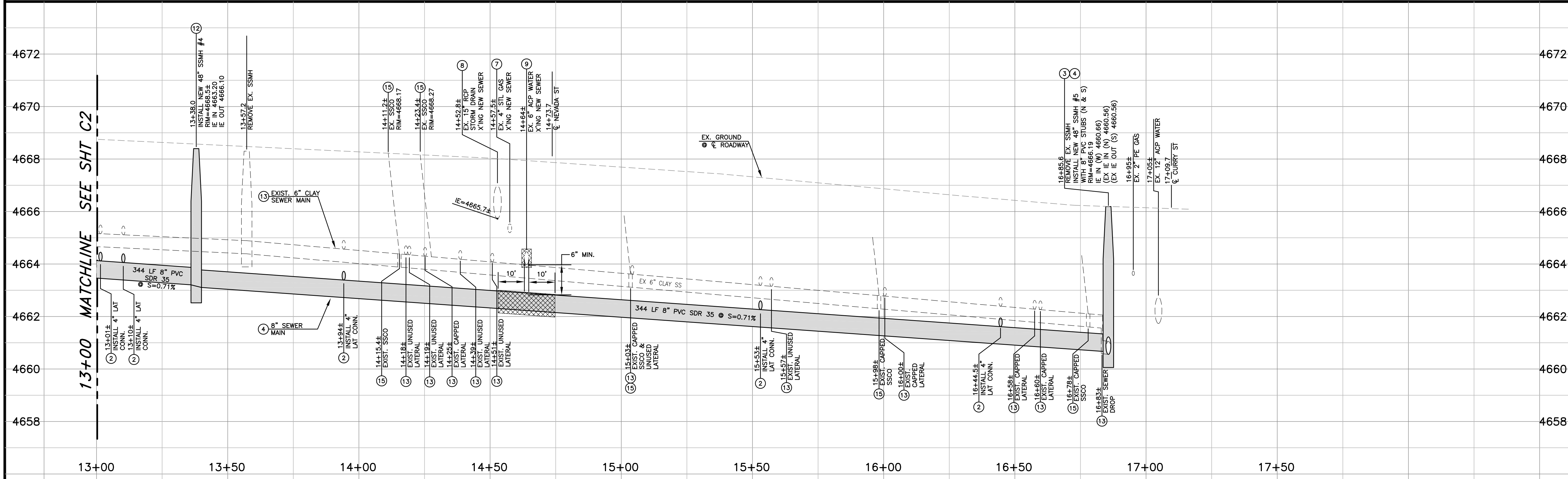
- AREAS OF SPECIAL CONSTRUCTION PER NDEP BUREAU OF SAFE DRINKING WATER VERTICAL CROSSING CONFLICTS SUMMARY.

THE CONTRACTOR SHALL USE DUE CARE IN INSTALLING SEWER MAINS, MANHOLES AND LATERALS. OFFSET STAKES SHALL BE PROVIDED FOR MAINS AT 100 FOOT MINIMUM INTERVALS. TWO OFFSET STAKES SHALL BE PROVIDED FOR EACH MANHOLE AND LATERAL LOCATION. PRIOR TO PLACEMENT OF MANHOLE SECTIONS OR BURYING OF LATERAL END PLUGS, THE LOCATION AND ELEVATION OF THE MAIN AND EACH MANHOLE BASE AND LATERAL SHALL BE VERIFIED BY THE CARSON CITY INSPECTOR AND THE CONTRACTOR. SEWER MAINS, MANHOLES AND LATERALS INSTALLED AT LOCATIONS FOR ELEVATIONS OTHER THAN AS SHOWN ON THE PLANS WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. FOLLOWING INSTALLATION, SEWER MAINS WILL BE TELEVIEWED BY CARSON CITY PERSONNEL. ANY AREAS OF PONDING WATER WILL REQUIRE REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.

CONSTRUCTION NOTES

- 2 INSTALL NEW 4" PVC SDR 35 SEWER LATERAL CONNECTION PER STD. DRAWING C-2.2.1. CONNECT TO EXISTING SEWER LATERAL WITH RIGID ROMAC 501 COUPLING, OR APPROVED EQUAL.
- 3 REMOVE AND REPLACE EXISTING SANITARY SEWER MANHOLE WITH NEW 48 INCH MANHOLE PER STD. DRAWINGS C-2.1.2 AND C-2.1.3.
- 4 INSTALL 8" PVC SDR 35 SEWER LINE PER STD. DRAWINGS C-1.2.1 AND C-2.1.1.
- 7 POTHOLE EX. GAS LINE TO VERIFY LOCATION AND DEPTH AT NEW UTILITY CROSSINGS.
- 8 PROTECT IN PLACE
- 9 PROVIDE "SPECIAL CONSTRUCTION" MITIGATION TO BOTH AFFECTED LINES. CENTER SEWER MAIN AT CROSSING AND MECHANICALLY RESTRAIN ANY EXPOSED WATER MAIN JOINTS PER THE WATER/SEWER SEPARATION GUIDELINES AND SPECIAL CONSTRUCTION/VERTICAL CROSSING CONFLICTS NOTES ON SHEET C4.
- 10 LIMITS FOR SAW-CUT, REMOVAL AND REPLACEMENT OF EXISTING AC PAVEMENT SHALL BE PER STD. DRAWING C-5.1.6 (PAVEMENT PATCH) AND C-1.2.1 (TYPICAL TRENCH SECTION).
- 12 INSTALL 48" SANITARY SEWER MANHOLE PER STD. DRAWINGS C-2.1.2 AND C-2.1.3.
- 13 REMOVE EXISTING SEWER MAIN, UNUSED LATERALS AND CLEANOUTS.
- 15 REMOVE EXISTING SEWER CLEANOUT.
- 16 INSTALL STORM DRAIN INLET PROTECTION PER STD. DRAWING C-4.1.7.

13+00 MATCHLINE SEE SHT C2



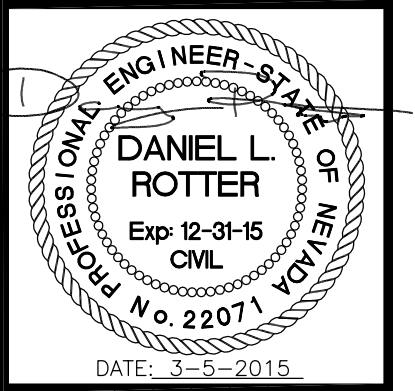
PROFILE - WEST EIGHTH STREET

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DESIGNED BY: DA
DRAWN BY: DLO
CHECKED BY: DA/DLR
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REV.	DATE	DESCRIPTION

**WEST EIGHTH STREET
SEWER REPLACEMENT PROJECT
PROJECT No. 05-1403.4
WEST EIGHTH STREET
PLAN & PROFILE
STA 13+00 to STA 17+00**

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