SE STEPHENS WATER MAIN REPLACEMENT

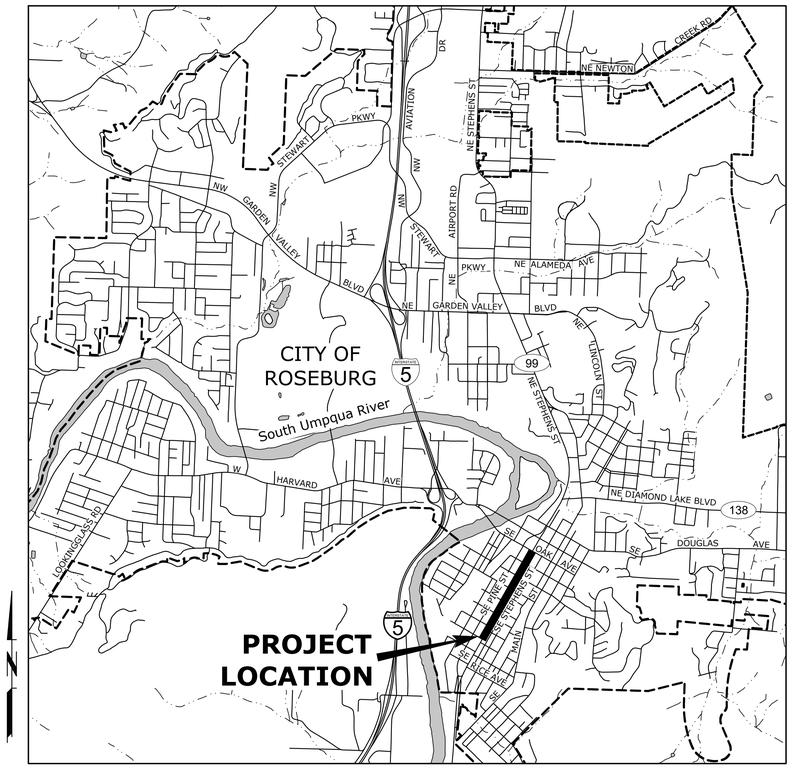
PROJECT NO. 23WA12

MAY 2024

INDEX OF DRAWINGS

PROJECT AREA MAP

SCALE: 1"=400'



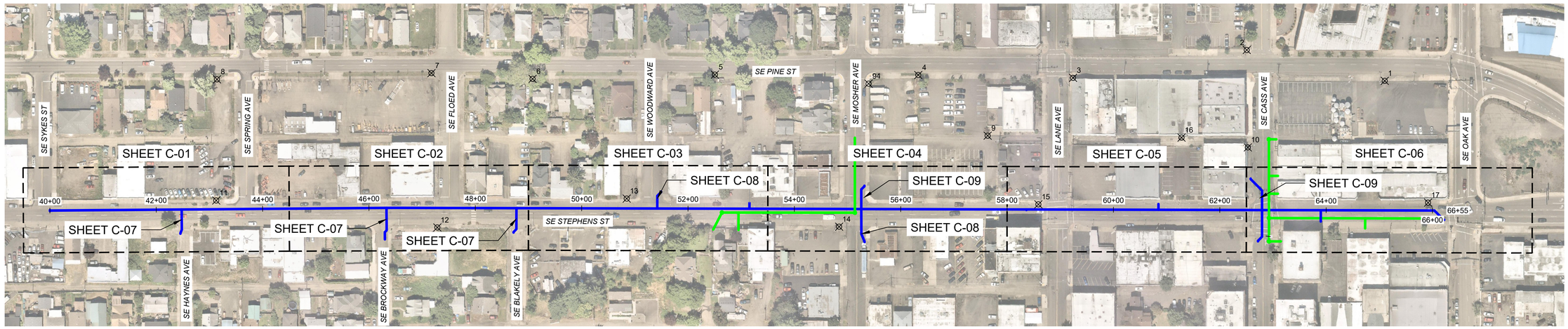
VICINITY MAP

SCALE: 1"=2,000'

ATTENTION: OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW THE RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. THE CONTRACTOR MAY OBTAIN COPIES OF THE RULES BY CALLING THE UTILITY NOTIFICATION CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 503-246-6699.)

CENTURY WEST ENGINEERING

5500 MEADOWS RD. #250 | LAKE OSWEGO, OR 97035
WWW.CENTURYWEST.COM | 503.419.2130



SHEET LAYOUT

SCALE: 1" = 100'

CONTROL POINT TABLE				
POINT #	DESCRIPTION	ELEVATION	NORTHING	EASTING
1	CP PK WASHER	470.719	137120.3490	160381.0020
2	CP PK WASHER	472.070	136917.6050	160208.9410
3	CP PK WASHER	472.717	136604.0780	160103.4040
4	CP IR IE	479.694	136348.8060	159963.3170
5	CP IR IE	485.867	136010.6530	159784.8540
6	CP IR IE	490.067	135703.3990	159632.4740
7	CP IR IE	491.830	135540.0960	159534.4600
8	CP PK WASHER	491.277	135177.6170	159357.2620
9	CP PK	479.147	136411.2990	160125.0040
10	CP SPIKE	477.968	136834.1620	160372.1130
11	CP PK WASHER	499.316	135070.3290	159558.3200
12	CP PK WASHER	500.947	135414.7970	159796.5610
13	CP PK WASHER	496.749	135755.3860	159914.1140
14	CP PK WASHER	488.919	136084.4130	160146.6440
15	CP PK WASHER	481.365	136435.6790	160283.7720
16	CP PK	476.785	136732.4100	160297.8070
17	CP PK WASHER	475.903	137085.9500	160621.6400
94	CP PK	482.521	136258.5340	159934.3160

LEGEND

- PROPOSED WATER MAIN
- PROPOSED SANITARY MAIN
- CONTROL POINT

SURVEY NOTES:

BASIS: O.C.R.S (OREGON COORDINATE REFERENCE SYSTEM)
METHOD: O.R.G.N. (OREGON REAL0TIME GNSS NETWORK)
ZONE: COTTAGE GROVE - CANYONVILLE
UNITS: INTERNATIONAL FEET
DATUM: NAD 83 (2011)
EPOCH: 2010
VERT. DATUM: NAVD88

NO.	DATE	BY	REVISION

SCALE
PLAN: AS SHOWN
PROFILE: HORIZ. / VERT.
ONE INCH (REF)

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER
72533PE
OREGON
JAN 8, 2008
RAWLEY D. VOORHIES
EXPIRES: 6/30/24

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900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

SHEET LAYOUT & SURVEY CONTROL

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO.
G-02

LEGEND

	EXISTING	PROPOSED
AIR RELEASE VALVE		ARV
FIRE DEPARTMENT CONNECTION		
FIRE HYDRANT		
GAS VALVE		
GUY ANCHOR		
LIGHT POLE		
PARKING METER		
POWER JUNCTION BOX		
POWER POLE		
SANITARY SEWER MANHOLE		
SIGN		
STORM CATCH BASIN		
STORM CURB INLET		
STORM SEWER MANHOLE		
TRAFFIC SIGNAL BOX		
TRAFFIC SIGNAL POLE		
TREE		
WATER FITTING		
WATER METER		
WATER PLUG		
WATER REDUCER		
WATER VALVE		
STRADDLE BLOCK		
ELECTRICAL	E	
GAS	G	
GUTTER LINE		
OVERHEAD POWER	OH	
PROPERTY LINE		
SANITARY SEWER	SS	SS
STORM SEWER	SD	
TELEPHONE	T	
WATER	X" W	X" W
WATER SERVICE LINE	W	
ABANDON PIPE		
CONCRETE SIDEWALK		

ABBREVIATIONS

@	AT
ABAN	ABANDON(ED)
AC	ASPHALTIC CONCRETE
ACP	ASPHALTIC CONCRETE PAVEMENT
ADWF	AVERAGE DRY WEATHER FLOW
AGG	AGGREGATE
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE(LY)
APPVD	APPROVED
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ARV	AIR RELEASE VALVE
AVE	AVENUE
AWWA	AMERICAN WATER WORK ASSOCIATION
BFILL	BACKFILL
BLDG	BUILDING
BM	BENCHMARK
BTM	BOTTOM
BETW	BETWEEN
C/L	CENTER LINE
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TELEVISION
CDF	CONTROLLED DENSITY FILL
CI	CAST IRON
CIPP	CURED IN PLACE PIPE
CG	CURB/GUTTER
CL	CLASS
CLR	CLEAR
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CND	CONDUIT
CO	CLEANOUT
COMM	COMMUNICATIONS
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCT/CONSTRUCTION
COORD	COORDINATE
COP	COPPER
COR	CITY OF ROSEBURG
CP	CONCRETE PIPE
CPLG	COUPLING
CR	CRUSHED ROCK
CT	COURT
CHKV	CHECK VALVE
CY	CUBIC YARD
D	DRAIN
DBH	DIAMETER AT BREAST HEIGHT
DET(S)	DETAIL(S)
DI	DUCTILE IRON
DIA	DIAMETER
DR	DRIVE
DWG	DRAWING
DWY	DRIVEWAY
EA	EACH
EB	EASTBOUND
EL	ELEVATION
ELEC/E	ELECTRICAL
EOP	EDGE OF PAVEMENT
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	EROSION/SEDIMENTATION CONTROL
ESMT	EASEMENT
EXIST	EXISTING
EG	EXISTING GRADE
FAB	FABRICATE
FD	FLOOR DRAIN
FH	FIRE HYDRANT
FIN GR	FINISHED GRADE
FL	FLOW LINE
FLG	FLANGE(D)
FM	FORCE MAIN
FO	FIBER OPTIC
FT	FEET/FOOT
FTG	FITTING
G	GAS
GALV	GALVANIZED
GR	GRADE
GRVL	GRAVEL
GV	GATE VALVE

HMAC	HOT MIX ASPHALT CONCRETE
HDPE	HIGH DENSITY POLYETHELENE
HORIZ	HORIZONTAL
HWY	HIGHWAY
HP	HIGH PRESSURE
ID	IDENTIFICATION/INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INSTL	INSTALL
IR	IRON ROD
LAT	LATERAL
LF	LINEAR FEET
LN	LANE
LP	LOW PRESSURE
LS	LONG SLEEVE
LT	LEFT
MAINT	MAINTAIN
MATL(S)	MATERIAL(S)
MAX	MAXIMUM
MFR(S)	MANUFACTURER('S)
MH(S)	MANHOLE(S)
MHMAC	MINOR HOT MIX ASPHALT CONCRETE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MON(S)	MONUMENT(S)
MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
NB	NORTHBOUND
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
ODOT	OREGON DEPARTMENT OF TRANSPORTATION
OH	OVERHEAD LINE
P	POWER
PC	POINT OF CURVE
PCC	PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCVC	POINT OF CURVATURE ON VERTICAL CURVE
PE	PLAIN END
PERF	PERFORATED
PERM	PERMANENT
PI	POINT OF INTERSECTION
PIVC	POINT OF INTERSECTION ON VERTICAL CURVE
PK	PARKING
P/L	PROPERTY LINE
PL	PLACE
PRESS	PRESSURE
PROP	PROPOSED
PS	PUMP STATION
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PW	PUBLIC WORKS
R	RADIUS
R&R	REMOVE AND REPAIR
RCP	REINFORCED CONCRETE PIPE
RD	ROAD/ROOF DRAIN
RDCR	REDUCER
REHAB	REHABILITATE/REHABILITATION
REINF	REINFORCE(D)(ING)(MENT)
REQ'D	REQUIRED
RESTR	RESTRAIN(ED)
RET	RETAINING
RT	RIGHT
RUSA	ROSEBURG URBAN SANITARY AUTHORITY
R/W	RIGHT OF WAY
SB	SOUTHBOUND
SCHED	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SHT(S)	SHEET(S)
SLP	SLOPE
SPECS	SPECIFICATIONS
SPL	SPOOL
SPR	SANITARY POINT REPAIR

SQ	SQUARE
SQFT	SQUARE FOOT
SS	SANITARY SEWER
SSC	STAINLESS STEEL CLAMPS
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STPR	STORM POINT REPAIR
S/W	SIDEWALK
T/TEL	TELEPHONE
TB	THRUST BLOCK
TBD	TO BE DETERMINED
TBM	TEMPORARY BENCH MARK
TCM	TRAFFIC CONTROL MEASURES
TCP	TRAFFIC CONTROL PLAN
TEMP	TEMPORARY
THK	THICK/THICKNESS
THRU	THROUGH
TV	TELEVISION
TYP	TYPICAL
USDOT	UNITED STATES DEPARTMENT OF TRANSPORTATION
VERT	VERTICAL(LY)
VCP	VITRIFIED CLAY PIPE
W	WATER
WB	WESTBOUND
WM	WATER METER
WZ	WORK ZONE
W/	WITH
W/IN	WITHIN
W/O	WITHOUT

NO.	DATE	BY	REVISION

SCALE	
PLAN	AS SHOWN
PROFILE	HORIZ.
	VERT.
ONE INCH (REF)	

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CITY PROJECT MANAGER
DARYN ANDERSON

LEGEND & ABBREVIATIONS

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO.
G-03
3 OF 27

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL CONFORM TO THE 2021 EDITION OF THE OREGON CHAPTER APWA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND PAY FOR ALL APPLICABLE PERMITS, LICENSES AND CERTIFICATES RELATIVE TO THE TRADES TO COMPLETE THE PROJECT AND FOR THE USE OF SUCH WORK WHEN COMPLETED. COMPLIANCE SHALL BE AT ALL LEVELS, FEDERAL, STATE, COUNTY, AND LOCAL, RELATING TO THE PERFORMANCE OF THE WORK.

3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND ARRANGE FOR THE RELOCATION OF ANY UTILITIES IN CONFLICT WITH THE PROPOSED CONSTRUCTION. THE LOCATIONS, DEPTH AND DESCRIPTION OF EXISTING UTILITIES SHOWN WERE COMPILED FROM AVAILABLE RECORDS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. ADDITIONAL UTILITIES, OTHER THAN THOSE SHOWN, MAY EXIST WITHIN THE WORK AREA.

4. OREGON LAW REQUIRES THAT THE RULES ADOPTED BY OREGON UTILITY NOTIFICATION CENTER BE FOLLOWED. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER OR ACCESSING VIA INTERNET AT WWW.CALLBEFOREYOUDIG.ORG. CALL BEFORE YOU DIG - 811.

5. THE CONTRACTOR SHALL MAKE PROVISIONS TO KEEP ALL EXISTING UTILITIES IN SERVICE AND PROTECT THEM DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY DAMAGED UTILITIES USING MATERIALS AND METHODS APPROVED BY THE UTILITY OWNER. NO SERVICE INTERRUPTIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN AGREEMENT WITH THE UTILITY PROVIDER.

6. CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY OF ROSEBURG 48 HOURS IN ADVANCE OF STARTING CONSTRUCTION AND 24 HOURS BEFORE RESUMING WORK AFTER SHUTDOWNS, EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS, SUNDAYS, OR HOLIDAYS.

7. CONTRACTOR SHALL REMOVE AND DISPOSE OF CONCRETE, ASPHALT CEMENT, TOPSOIL, AND OTHER MATERIAL IN THE WORK LIMITS AND WHERE INDICATED ON THE PLANS. MATERIAL SHALL BE DISPOSED OF IN SUCH A MANNER AS TO MEET ALL APPLICABLE REGULATIONS. CONTRACTOR SHALL ENSURE RECIPIENTS OF FILL MATERIALS REMOVED OFFSITE ARE PERMITTED TO RECEIVE SAID MATERIALS REGARDLESS OF THE RECEIVING JURISDICTION.

8. LIMIT HOURS OF CONSTRUCTION TO BETWEEN 6:00 AM TO 7:00 PM, MONDAY THROUGH FRIDAY, AND BETWEEN 7:00 PM TO 6:00 AM, SUNDAY THROUGH FRIDAY, UNLESS OTHERWISE NOTED IN SPECIAL PROVISIONS SECTION 220. SEE TRAFFIC REROUTING PLANS AND SECTION 220 OF THE SPECIAL PROVISIONS FOR ALLOWABLE LANE CLOSURES.

9. THE CONTRACTOR SHALL KEEP AN APPROVED SET OF PLANS ON THE PROJECT SITE AT ALL TIMES.

10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS AND OTHERWISE VERIFY ALL DIMENSIONS AND EXISTING CONSTRUCTION CONDITIONS INDICATED AND/OR SHOWN ON THE PLANS. SHOULD ANY ERROR OR INCONSISTENCY EXIST, THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK AFFECTED UNTIL REPORTED TO THE ENGINEER FOR CLARIFICATION OR CORRECTION.

11. ANY INSPECTION BY THE CITY, COUNTY, STATE, FEDERAL AGENCY OR ENGINEER SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN COMPLIANCE WITH THE APPLICABLE CODES, REGULATIONS, CITY STANDARDS AND PROJECT CONTRACT DOCUMENTS.

12. CONTRACTOR SHALL COORDINATE ALL IMPROVEMENT LIMITS WITH THE ENGINEER ONSITE PRIOR TO BEGINNING WORK. NO PAYMENT WILL BE MADE FOR EXTRA WORK THAT IS CONSTRUCTED BEYOND THE APPROVED CONSTRUCTION LIMITS.

13. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL CLEAN UP THE PROJECT AREA AND LEAVE IT IN A NEAT AND SECURED MANNER. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE FROM ALL DEBRIS AND UNUSED MATERIALS.

14. PROPERTY LINES SHOWN ON PLAN SHEETS ARE APPROXIMATE AND FOR GENERAL DELINEATION PURPOSES ONLY AND ARE NOT MEANT TO REPRESENT THE ACTUAL PROPERTY BOUNDARIES.

15. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL CONSTRUCTION SAFETY, HEALTH AND OTHER RULES AND REGULATIONS FROM OSHA, DEQ, STATE, AND LOCAL REGULATING AGENCIES FOR SAFETY AND INSTALLATION OF THE WORK INCLUDING, BUT NOT LIMITED TO, SHORING, BRACING, ERECTION/INSTALLATION, FALL PROTECTION, GUARDRAILS, ETC.

16. REPLACE CURBS, SIDEWALKS, AND/OR DRIVEWAY APRONS THAT ARE DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS. REPLACE FULL SECTIONS TO THE NEAREST EXISTING CONSTRUCTION JOINT.

17. ALL CONSTRUCTION SURVEY AND STAKING REQUIRED FOR THE PROJECT SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL DEVELOP AND MAKE ALL DETAIL SURVEYS NECESSARY FOR LAYOUT AND CONSTRUCTION INCLUDING EXACT COMPONENT LOCATION (SUCH AS EXISTING STRIPING, SYMBOLS, DETECTOR LOOPS, ETC), WORKING POINTS, LINES, AND ELEVATIONS. PRIOR TO CONSTRUCTION, THE FIELD LAYOUT SHALL BE REVIEWED BY THE ENGINEER.

18. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO CAREFULLY PRESERVE BENCHMARKS, REFERENCE POINTS AND STAKES, AND IN THE CASE OF DESTRUCTION THEREOF BY THE CONTRACTOR RESULTING FROM ITS NEGLIGENCE, THE CONTRACTOR SHALL BE CHARGED WITH THE EXPENSE AND DAMAGE RESULTING THEREFORE AND SHALL BE RESPONSIBLE FOR ANY MISTAKES THAT MAY BE CAUSED BY THE UNNECESSARY LOSS OR DISTURBANCE OF SUCH MARKS, REFERENCE POINTS AND STAKES.

19. CONTRACTOR IS RESPONSIBLE FOR SURVEYING AND REPLACING ALL MONUMENTS DISTURBED BY PAVING OR CONCRETE WORK PURSUANT TO ORS 209.150, AND FOR PREPARING AND FILING A RECORD OF SURVEY TO THE COUNTY SURVEYOR'S OFFICE PURSUANT TO ORS 209.250.

20. COORDINATE WITH OTHER CONTRACTORS WITHIN THE PROJECT LIMITS COMPLETING WORK. IF APPLICABLE, SEE THE GENERAL CONDITIONS OF THE SPECIFICATIONS FOR CONTACT INFORMATION.

21. PROTECT FRESHLY POURED CONCRETE CURBS AND SIDEWALK FROM VANDALISM OR OTHER DAMAGE FOR A MINIMUM OF TWENTY-FOUR (24) HOURS OR UNTIL CURED ENOUGH TO SUPPORT TYPICAL USE, WHICHEVER IS LONGER. ANY CURB OR SIDEWALK DAMAGED BY VANDALISM OR OTHER CAUSES SHALL BE REPLACED AT NO COST TO THE CITY.

22. CONTRACTOR SHALL RESTORE ALL DISTURBED LANDSCAPING AND IRRIGATION. PLACE TOPSOIL, AGGREGATE, AND/OR BARK MULCH WHERE SHOWN.

23. FURNISH AND PLACE DOWELS TO JOIN NEW CONCRETE WALKS, CURBS AND DRIVEWAYS TO EXISTING CONCRETE AS DIRECTED.

24. AC PIPE WASTE MUST BE DISPOSED OF AT A LANDFILL PERMITTED TO ACCEPT ASBESTOS WASTE AND MUST BE ACCOMPANIED BY A COMPLETED WASTE SHIPMENT REPORT, KNOWN AS AN ASN-4, AT THE TIME OF DISPOSAL. CONTACT THE LANDFILL PRIOR TO DELIVERING THE AC PIPE WASTE. LANDFILLS CAN BE MORE STRINGENT AND MAY ONLY ACCEPT ASBESTOS WASTE BY APPOINTMENT. SEE THE OREGON DEQ ASBESTOS PROGRAM GUIDANCE: HOW TO REMOVE NONFRIABLE ASBESTOS CEMENT PIPE FOR MORE INFORMATION.

EROSION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO ANY DISTURBANCE CAUSED BY GRADING AND SHALL CONFORM TO THE REQUIREMENTS OF STATE AND FEDERAL REGULATIONS AND TO THE SPECIFIC REQUIREMENTS CONTAINED IN THE SPECIFICATIONS.

2. EXISTING INLETS AND CATCH BASINS THAT MAY RECEIVE RUNOFF FROM THE PROJECT AREA ARE TO BE PROTECTED PRIOR TO CONSTRUCTION. ALL INLETS AND CATCH BASINS ARE TO BE PROTECTED IN ACCORDANCE WITH ODOT/APWA STANDARDS FOR EROSION AND SEDIMENT CONTROL.

3. IN THE EVENT OF ANY EROSION CONTROL MEASURE FAILURE, IMMEDIATE ACTION SHALL BE TAKEN TO REPAIR, REPLACE, OR CONSTRUCT ADDITIONAL MEASURES AS REQUIRED TO ENSURE ADEQUATE EROSION CONTROL PROTECTION.

4. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED REGULARLY, PARTICULARLY DURING AND AFTER STORM EVENTS, TO ENSURE ADEQUATE PERFORMANCE. MAINTENANCE AND INSPECTION LOGS SHALL REMAIN ON SITE AND SHALL BE AVAILABLE TO THE CITY OF ROSEBURG UPON REQUEST.

5. ALL PESTICIDES, PETROLEUM PRODUCTS, CHEMICALS OR OTHER POTENTIAL POLLUTANTS SHALL BE ADMINISTERED RESPONSIBLY WITH DISPOSAL AND SPILLS HANDLED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.

PAVING NOTES

1. TRIM VEGETATION AS NEEDED PRIOR TO PAVING TO ENSURE ALL VEGETATION IS CLEAR OF PAVING OPERATIONS.

2. ALL EDGES REMAINING AFTER COLD PLANE PAVEMENT REMOVAL, IF APPLICABLE, SHALL BE VERTICAL TO ACCEPT THE SUCCEEDING FULL DEPTH ASPHALT LIFT.

3. ALL JOINTS BETWEEN NEW ASPHALTIC CONCRETE AND EXISTING OR NEW ASPHALTIC CONCRETE AND CONCRETE SHALL BE TACKED AND SAND SEALED.

4. THE MAXIMUM EXPOSURE AT DRIVEWAYS SHALL BE 3/4-INCH.

5. COORDINATE WITH CITY STAFF FOR IN-GROUND VALVE, MANHOLE OR VAULT ADJUSTMENT OF FRANCHISE UTILITY ASSETS.

STRIPING AND SIGNING NOTES

1. CONTRACTOR TO REPLACE IN-KIND ANY STRIPING REMOVED AND/OR DAMAGED AS PART OF THE CONSTRUCTION ACTIVITIES.

2. ALL SIGNING AND PAVEMENT MARKING MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND 2021 APWA STANDARD SPECIFICATIONS.

3. ALL LONGITUDINAL STRIPING SHALL BE PAINT. TRANSVERSE PAVEMENT MARKINGS, INCLUDING CROSSWALKS, STOP BARS, BIKE SYMBOLS, ARROWS, AND STORM INLET MARKINGS, SHALL BE PREFORMED THERMOPLASTIC AS SHOWN AND SPECIFIED. CONTRACTOR IS RESPONSIBLE FOR LAYOUT AND STAKING OF ALL TRANSVERSE PAVEMENT MARKINGS.

4. TEMPORARY FLEXIBLE PAVEMENT MARKERS ARE ALLOWED PRIOR TO STRIPING FOR A MAXIMUM PERIOD OF 14 CALENDAR DAYS.

5. CONTRACTOR SHALL OBTAIN CITY APPROVAL OF STRIPING LAYOUT 24 HOURS BEFORE STRIPING.

6. LANE DIMENSIONS SHALL BE MEASURED FROM CENTER OF STRIPE OR FROM EDGE OF PAVEMENT OR CURB TO CENTER OF STRIPE.

7. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH ODOT TM500 SERIES DETAILS, OR MATCH EXISTING AS DIRECTED BY ENGINEER.

8. EXISTING STRIPING SHALL BE REMOVED AS NECESSARY PRIOR TO INSTALLATION OF NEW STRIPING.

TRAFFIC CONTROL NOTES

1. TRAFFIC CONTROL/DETOUR PLANS SHALL BE PREPARED BY THE CONTRACTOR. THE DRAFT CONCEPT TRAFFIC CONTROL PLAN MUST BE APPROVED BY THE CITY PRIOR TO THE PRE-CONSTRUCTION CONFERENCE. THIS PLAN DOES NOT RELIEVE THE CONTRACTOR FROM SUBMITTING DETAILED TRAFFIC CONTROL PLANS AS REQUIRED DURING CONSTRUCTION.

2. THE CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION AND DIRECTION OF TRAFFIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, ODOT STANDARD DRAWINGS, ODOT STANDARD SPECIFICATIONS, AND CONTRACT SPECIAL PROVISIONS.

3. USE TEMPORARY PAVEMENT MARKERS, BARRIERS, BARRICADES, AND SIGNS AS REQUIRED TO SAFELY DETOUR PEDESTRIAN AND VEHICULAR TRAFFIC AROUND CONSTRUCTION. LABEL TYPE AND LOCATION FOR ALL ITEMS ON TRAFFIC CONTROL PLANS.

4. APPROPRIATE METHODS OF PEDESTRIAN AND VEHICULAR TRAFFIC CONTROL, INCLUDING FLAGGERS, SHALL BE EMPLOYED BY THE CONTRACTOR TO THE EXTENT DEEMED NECESSARY BY THE TRAFFIC CONTROL SUPERVISOR AND AS APPROVED BY THE CITY AND THE ENGINEER TO PROTECT WORKERS OR THIRD PARTIES AND SAFELY ACCOMMODATE TRAFFIC THROUGH THE WORK ZONE.

5. THE CONTRACTOR SHALL COORDINATE ACCESS TO DRIVEWAYS WITH PROPERTY OWNERS. ACCESS TO ROADWAY APPROACHES WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES. TRAFFIC PLATES SHALL BE USED, AND SECURED IN A MANNER ACCEPTABLE TO THE CITY, ACROSS ALL TRENCHES BLOCKING DRIVEWAYS TO PROVIDE ACCESS AT ALL TIMES. AT NO TIME SHALL CONTRACTORS DETAIN OR DELAY EMERGENCY VEHICLES.

6. THE CONTRACTOR SHALL COORDINATE ACCESS FOR SERVICES INCLUDING, BUT NOT LIMITED TO, MAIL DELIVERY, TRASH PICKUP, SCHOOL TRANSPORTATION, AND ANY OTHER SPECIAL TRANSPORTATION SERVICES THAT EXIST WITHIN THE PROJECT AREA.

7. EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION SIGNING SHALL BE COVERED OR REMOVED DURING CONSTRUCTION AND REPLACED AFTER CONSTRUCTION.

8. PROVIDE ACP WEDGES FOR LONGITUDINAL AND TRANSVERSE JOINTS ACCORDING TO 00620.40(d), 00744.44 AND 00744.45.

9. THE CONTRACTOR SHALL PROVIDE SAFE, STABLE, AND ACCESSIBLE ACCESS TO ALL DRIVEWAY AND PEDESTRIAN PATHS CONNECTING TO FRONT DOORS AT ALL TIMES. TEMPORARY INTERRUPTIONS IN ACCESS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE PROPERTY OWNER OR OCCUPANT AS REQUIRED.

10. CONTRACTOR SHALL FURNISH PORTABLE CHANGEABLE MESSAGE SIGN AT WORK ZONES ON ARTERIAL ROADS IN ACCORDANCE WITH THE SPECIFICATIONS.

WATER NOTES

1. ALL WATER SYSTEM WORK SHALL BE IN CONFORMANCE WITH ODOT 2021 STANDARD SPECIFICATIONS WITH SPECIAL PROVISIONS PROVIDED BY THE CITY. IN CASES OF CONFLICT, THE CITY OF ROSEBURG SPECIAL PROVISIONS SHALL TAKE PRECEDENCE OVER THE STANDARD SPECIFICATIONS.

2. A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE ENGINEER AND CONTRACTOR PRIOR TO START OF CONSTRUCTION.

3. ALL PIPE FOR WATER MAINLINES SHALL BE THICKNESS CLASS DUCTILE IRON AS SPECIFIED IN ANSI/AWWA C151/A21.51-09, TABLE 3, UNLESS OTHERWISE SPECIFIED. 4-INCH DI PIPE SHALL BE CLASS 52, 6-INCH DI SHALL BE CLASS 51, AND 8-INCH THROUGH 16-INCH DI SHALL BE CLASS 50. 18-INCH & LARGER DI PIPE SHALL BE CLASS 52.

4. DUCTILE IRON PIPE SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA IN ACCORDANCE WITH ANSI/AWWA C151/A21.51. APPROVED MANUFACTURERS INCLUDE: AMERICAN DUCTILE IRON PIPE, MCWANE DUCTILE, AND U.S. PIPE, UNLESS OTHERWISE APPROVED BY THE CITY.

5. ALL METALIC WATER MAIN PIPE SHALL BE ENCASED WITH V-BIO POLYETHYLENE ENCASEMENT OR APPROVED EQUAL.

6. ALL PIPE FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA UNLESS OTHERWISE APPROVED BY THE CITY. THE ONLY EXCEPTION SHALL BE NON-DOMESTIC DUCTILE IRON FITTINGS MANUFACTURED BY MCWANE DUCTILE (TYLER/UNION) WHICH MEET THE REQUIREMENTS OF AWWA C153 AND C110 AND ARE IDENTIFIED BY ODOT SECTION 2475 .

7. GATE VALVES SHALL BE REDUCED-WALL DUCTILE IRON-BODY, RESILIENT-SEATED GATE VALVES MEETING THE REQUIREMENTS OF AWWA C515. ALL GATE VALVES SHALL BE MANUFACTURED IN THE UNITED STATES OF AMERICA UNLESS OTHERWISE APPROVED BY THE CITY OF ROSEBURG. APPROVED MANUFACTURES MAKES AND MODELS INCLUDE: AMERICAN FLOW CONTROL SERIES 2500, AMERICAN AVK SERIES 65, CLOW MODEL 2638, KENNEDY KS-RW, OR AN APPROVED EQUAL.

811 Know what's **below.** **Call** before you dig.

NO.	DATE	BY	REVISION

SCALE
PLAN: AS SHOWN
PROFILE: HORIZ. / VERT.
ONE INCH (REF)

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER — 72533PE — OREGON — JAN 8, 2008 — RAWLEY D. VOORHIES
EXPIRES: 6/30/24

CENTURY WEST ENGINEERING
5500 MEADOWS RD. #250 | LAKE OSWEGO, OR 97035
WWW.CENTURYWEST.COM | 503.419.2130

900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

GENERAL NOTES

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO. G-04

4 OF 27

WATER NOTES (CONT.)

8. FIRE HYDRANTS SHALL BE THREE PORT 5-1/4" DRY-BARREL WITH TWO 2-1/2" HOSE NOZZLES AND ONE 4-1/2" PUMPER NOZZLE. ALL COMPONENTS OF THE UPPER BARREL SECTION, AND LOWER BASE SECTION SHALL BE CONSTRUCTED OF DUCTILE IRON THAT MEETS OR EXCEEDS ALL THE REQUIREMENTS OF ANSI/AWWA C502 WITH A MINIMUM PRESSURE RATING OF 250 PSIG AND BE MANUFACTURED IN THE UNITED STATES OF AMERICA UNLESS OTHERWISE APPROVED BY THE CITY. APPROVED MANUFACTURES MAKES AND MODELS INCLUDE: AMERICAN FLOW CONTROL/WATEROUS PACER WB-67-250, AMERICAN AVK SERIES 2780 NOSTALGIC, KENNEDY GUARDIAN K81DI, OR APPROVED EQUAL.

9. THE CONTRACTOR SHALL HYDROSTATICALLY TEST, AND CHLORINATE ALL NEW WATER MAINLINES INSTALLED. THE ENGINEER SHALL WITNESS ALL TESTS MADE BY THE CONTRACTOR TO INSURE THEY ARE PERFORMED PROPERLY. TEST PRESSURES SHALL BE DETERMINED BY THE ENGINEER PRIOR TO THE TEST.

10. ALL CONSTRUCTION & TESTING IS SUBJECT TO INSPECTION BY THE CITY OF ROSEBURG PUBLIC WORKS DEPARTMENT AND THE ENGINEER. THE CONTRACTOR SHALL GIVE THE CITY AND THE ENGINEER 48 HOURS NOTICE PRIOR TO BEGINNING CONSTRUCTION AND 24 HOURS NOTICE PRIOR TO TESTING. THE CITY SHALL BE ON SITE TO WITNESS THE INSTALLATION OF JOINT RESTRAINT SYSTEMS.

11. NO OTHER MAJOR UTILITIES SHALL RUN PARALLEL WITHIN THREE (3) FEET OF THE NEW WATER MAIN.

12. RESTRAINED JOINT DUCTILE IRON PIPE AND FITTINGS SHALL BE PROVIDED AS IDENTIFIED ON THE ENGINEERED CONSTRUCTION DRAWINGS. ALL FITTINGS SHALL BE RESTRAINED TO THE SPECIFIED RESTRAINT DISTANCES AS REQUIRED FOR APPLICATION AND AS SHOWN ON THE ENGINEERED CONSTRUCTION DRAWINGS. OTHERWISE, MECHANICAL RESTRAINTS (i.e. MEGA-LUGS OR APPROVED EQUAL) SHALL BE REQUIRED AT ALL FITTINGS IN ADDITION TO THRUST BLOCKS. WHEN SPECIAL CIRCUMSTANCE DICTATES, THE CITY MAY REQUIRE 100% JOINT RESTRAINT ON ALL FITTINGS.

13. SERVICE WORK SHALL BE PROVIDED BY THE CONTRACTOR. CONTRACTORS CREWS WILL PROVIDE SERVICE LINE FROM MAIN AND SET THE METER BOX. CITY CREWS WILL SET METER AND APPURTENANCES. FOR STANDARD SERVICE CONNECTION SEE CITY STANDARD DRAWINGS.

14. ALL CITY WATER FACILITIES OUTSIDE RIGHT-OF-WAYS SHALL BE WITHIN 15 FT WIDE EASEMENTS CENTERED ON THE WATER UTILITY.

15. THE CITY OF ROSEBURG SHALL BE THE SOLE OPERATOR OF ALL WATERLINE VALVES ON THE EXISTING WATER SYSTEM. AT NO TIME SHALL THE CONTRACTOR OPERATE EXISTING VALVES TO SHUT OFF OR PRESSURIZE THE PIPELINE.

16. DETECTABLE MARKING WIRE FOR WATER LINES SHALL BE NO. 12 AWG SOLID COPPER WIRE WITH HIGH MOLECULAR WEIGHT POLYETHYLENE (HMWPE) INSULATION. THE HMWPE INSULATED COVER SHALL BE BLUE AND SHALL HAVE A MINIMUM THICKNESS OF 45 MILS. THE WIRE SHALL BE UL RATED FOR 140°F. JOINTS OR SPLICES IN WIRE SHALL BE WATERPROOF.

17. MARKING TAPE SHALL CONSIST OF INERT POLYETHYLENE PLASTIC THAT IS IMPERVIOUS TO ALL KNOWN ALKALIS, ACIDS, CHEMICAL REAGENTS AND SOLVENTS LIKELY TO BE ENCOUNTERED IN THE SOIL. THE TAPE SHALL BE A MINIMUM OF 6-INCHES IN WIDTH. THE TAPE SHALL BE BLUE AND SHALL BE IMPRINTED CONTINUOUSLY OVER IT'S ENTIRE LENGTH IN PERMANENT BLACK INK WITH THE WORDS "CAUTION BURIED WATER LINE BELOW".

18. MARKER BALLS (OMNI MODEL 161 (BLUE) OR APPROVED EQUAL), SHALL BE INSTALLED ON ALL PIPE 12-INCHES IN DIAMETER AND GREATER. MARKER BALLS ARE TO BE INSTALLED DIRECTLY ABOVE THE PIPE ALIGNMENT AT A DEPTH NOT LESS THAN 3 FEET AND NOT MORE THAN 4.5 FEET BELOW FINISH GRADE AT A SPACING OF 50 LINEAL FEET ON PIPE WITH STRAIGHT HORIZONTAL ALIGNMENT OR DEFLECTED RADIUS OF CURVATURE AND ALL VERTICAL AND HORIZONTAL BENDS, TEES, CROSSES, GATE VALVES AND TERMINATION POINTS.

19. MATERIAL SUBMITTALS ARE TO BE PROVIDED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO ORDERING MATERIALS. MATERIALS DELIVERED ON-SITE ARE TO BE INSPECTED BY THE CITY PRIOR TO INSTALLATION.

20. WATER MAINS SHALL BE SURVEY STAKED FOR ALIGNMENT AND GRADE PRIOR TO INSTALLATION.

SANITARY SEWER NOTES

1. ALL SANITARY SEWER WORK SHALL BE IN CONFORMANCE WITH ROSEBURG URBAN SANITARY AUTHORITY SPECIFICATIONS AND ORDINANCE. THE 2024 EDITION OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION PREPARED BY THE OREGON DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION OREGON CHAPTER WILL BE CONSIDERED THE STANDARD SPECIFICATIONS. IN CASES OF CONFLICT ROSEBURG URBAN SANITARY AUTHORITY SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THE STANDARD SPECIFICATIONS.

2. CONTRACTOR SHALL MAINTAIN A MINIMUM HORIZONTAL SEPARATION OF TEN (10) FEET BETWEEN WATER MAINS AND SEWER MAINS MEASURED EDGE TO EDGE. (SEE OAR 340-052, DIVISION 52, APPENDIX A AND OAD 333-061-0550(9))

3. CONTRACTOR TO FIELD VERIFY TYPE, LOCATION, AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF NEW PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BRACING AND PROTECTION OF EXISTING UTILITY LINES, MARKED & UNMARKED, AT NO ADDITIONAL COST TO THE OWNER.

4. RUSA SHALL OBTAIN A PERMIT FOR WORKING IN THE CITY OF ROSEBURG RIGHT-OF-WAY.

5. CONTRACTOR SHALL COORDINATE WITH LOCAL RESIDENCES FOR INTERRUPTION OF SEWER SERVICES. PROVIDE RESIDENCES WITH 24 HOUR NOTICE PRIOR TO DISRUPTION OF SERVICE. AT NO TIME SHALL A RESIDENCE HAVE THEIR SEWER SERVICE INTERRUPTED OVERNIGHT. WORK FOR THE DAY WILL NOT END UNTIL ALL RESIDENCES HAVE BEEN RECONNECTED TO SEWER SERVICE.

6. PROTECT OPEN EXCAVATIONS DURING NON WORKING HOURS WITH METAL PLATES OR OTHER APPROVED METHODS.

7. FIELD VERIFY ALL SERVICE LATERALS FOR LOCATION, SIZE AND DEPTH AT RIGHT OF WAY PRIOR TO INSTALLING THE TEE ON THE SEWER MAIN. PROVIDE NEW CLEANOUT AND CONNECT TO EXISTING SERVICE AT RIGHT OF WAR. 4" SERVICE LINES SHALL BE INSTALLED TO CONNECT TO EXISTING 4" SERVICE LINES AT RIGHT OF WAY. 6" SERVICE LINES SHALL BE INSTALLED TO CONNECT TO EXISTING 6" SERVICE LINES AT RIGHT OF WAY. (SEE DETAIL).

8. ALL PIPE DISTANCES ARE MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.

9. ALL PIPE SLOPE ARE CALCULATED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL FITTINGS AND APPURTENANCES, AS NEEDED, TO CONNECT NEW SEWER INFRASTRUCTURE TO EXISTING SEWER INFRASTRUCTURE.

11. CONTRACTOR RESPONSIBLE FOR ALL REQUIRED BYPASS PUMPING. SUBMIT BYPASS PUMPING PLAN TWO WEEKS BEFORE PUMPING BEGINS. SEE SPECIAL PROVISIONS SECTION 00490.40.

12. CONTRACTOR SHALL POTHOLE AND IDENTIFY SEWER LATERAL LOCATION AND SIZE PRIOR TO INSTALLATION.

13. SANITARY SEWER LATERALS FROM THE BUILDING TO THE SEWER MAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH OREGON STATE DEPARTMENT OF COMMERCE, BUILDING CODES DIVISION, 2021 UNIFORM PLUMBING CODE AND ITS AMENDMENTS, EXCEPT FOR 8" AND LARGER PUBLIC SEWERS WHICH SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEQ STANDARDS FOR PUBLIC SEWERS AND TO THE LINES, GRADES AND DETAILS SHOWN ON THE PLANS. 4" AND 6" LATERALS SHALL BE PVC ASTM 3034. ALL LINES SHALL HAVE TONING WIRE INSTALLED IN THE TRENCH FOR FUTURE LOCATING.

14. ALL MANHOLE CONNECTIONS TO BE FACTORY CONNECTORS WITH NON-SHRINK GROUT OR A CORED HOLE WITH FLEXIBLE BOOT. I.E.: KOR-N-SEAL. CONNECTIONS TO EXISTING MANHOLES SHALL BE CORED OR SAW CUT.

15. CONTRACTORS TO PROVIDE PREFORMED PLASTIC GASKETS IN ALL MANHOLE JOINTS.

16. ALL MANHOLES SHALL BE 48" DIAMETER WITH CONCENTRIC CONES, EXCEPT AS NOTED OTHERWISE.

17. NO FLAT-TOP MANHOLES TO BE USED WITHOUT ROSEBURG URBAN SANITARY AUTHORITY'S PRIOR APPROVAL.

18. DEFLECTION TESTING SHALL BE CONDUCTED ON ALL SEWERS CONSTRUCTED OF FLEXIBLE PIPE NOT LESS THAN 30 DAYS AFTER TRENCH BACKFILL AND COMPACTION. TESTING WILL CONFORM TO 2008 APWA STANDARD SPECIFICATIONS, SECTION 0445.

19. ROSEBURG URBAN SANITARY AUTHORITY SHALL BE NOTIFIED FOR INSPECTION AT LEAST 24 HOURS PRIOR TO THE ACCOMPLISHMENT OF THE FOLLOWING STAGES OF CONSTRUCTION.
PHONE: 541-672-1551
- ANY SANITARY SEWER CONSTRUCTION. (INCLUDING STRUCTURES)
- TRENCH EXCAVATION. (PRIOR TO PLACING BEDDING ROCK)
- PIPE AND TONING WIRE INSTALLATION.
- CLEAN-OUT AND MANHOLE CONNECTIONS.
- PAVING.

NONE OF THE ABOVE ITEMS OF WORK SHALL BE COVERED UNTIL INSPECTED BY ROSEBURG URBAN SANITARY AUTHORITY.

20. LINE AND GRADE SHALL BE MAINTAINED AS SHOWN ON THE PLANS OR AS ESTABLISHED BY THE ENGINEER. VARIATIONS OF MORE THAN 1/2 INCH FOR LINE AND 1/4 INCH FOR GRADE WILL NOT BE PERMITTED.

21. PIPES SHALL BE AIR TESTED IN ACCORDANCE WITH UNIBELL'S "RECOMMENDED PRACTICE FOR LOW PRESSURE AIR TESTING OF INSTALLED SEWER PIPE" UNI-B-6-98. MINIMUM TEST TIME SHALL BE BASED ON TABLE ||. THERE WILL BE NO PRESSURE DROP ALLOWED.

22. MANHOLE ELEVATIONS AND PIPE GRADES ARE FIGURED FROM THE CENTER OF EACH MANHOLE. SUPPLIERS OF PRE-CAST MANHOLE BASES SHALL SUBMIT SHOP DRAWINGS SHOWING THE LOCATIONS OF PIPE INLETS AND OUTLETS FOR REVIEW PRIOR TO MANUFACTURING.

23. MAXIMUM LENGTH OF SEWER LINE BETWEEN MANHOLES SHALL BE 300' UNLESS OTHERWISE APPROVED BY ROSEBURG URBAN SANITARY AUTHORITY.

24. ABANDONMENT OF SEWER MAINS TO BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AS MODIFIED BY THE SPECIAL PROVISIONS.

STRIPING KEYED NOTES

1. INSTALL STAGGERED CONTINENTAL CROSSWALK 2' WHITE BAR.
SEE ODOT STD. DETAIL TH503 (CW-SC).

2. INSTALL STOP BAR 1' WHITE BAR.
SEE ODOT STD. DETAIL TH503 (S).

STORM SEWER KEYED NOTES

1. REMOVE EXISTING CATCH BASIN.
2. INSTALL NEW CURB INLET. SEE ODOT STD. DWGS. RD371 AND RD372.
3. INSTALL 12" CONCRETE STORM SEWER PIPE, CONNECT TO EXISTING.

WATER KEYED NOTES

1. INSTALL SERVICE ASSEMBLY. CONNECT TO EXISTING METER. SEE SERVICE SCHEDULE. VERIFY LIMITS OF CONCRETE CURB AND MISCELLANEOUS STRUCTURE REMOVAL WITH CITY PRIOR TO INSTALLATION. BORE OR HAND EXCAVATE AS NECESSARY TO MAKE FINAL CONNECTION. SEE DETAIL NO. 1, SHEET D-05, AND CITY OF ROSEBURG STD. DWGS. NOS. 108, 110, AND 111, SHEET D-05.
2. ABANDON EXISTING 6" WATER MAIN.
3. ABANDON EXISTING 12" WATER MAIN.
4. INSTALL NEW DUCTILE IRON WATER MAIN WITH POLY ENCASEMENT WRAP. RESTRAIN ALL JOINTS. NOMINAL PIPE DIAMETER AND CLASS AS NOTED.
5. INSTALL 12" X 4" TEE (FLG).
6. INSTALL 8" GATE VALVE (FLG X MJ).
7. INSTALL 12" GATE VALVE (FLG X MJ).
8. INSTALL 12" X 8" TEE (FLG).
9. INSTALL 45 DEGREE ELBOW.
10. REMOVE VALVE CAN AND PATCH WITH IN KIND MATERIAL.
11. INSTALL 1" ARV ASSEMBLY,
SEE DETAIL 5, SHEET D-04.
12. INSTALL NEW FIRE HYDRANT ASSEMBLY AT LOCATION SHOWN.
SEE CITY OF ROSEBURG STD. DWG. 105, SHEET D-04.
13. REMOVE EXISTING FIRE HYDRANT AND VALVE CAN, PATCH WITH IN KIND MATERIAL.
14. INSTALL 4" GATE VALVE (FLG X MJ).
15. INSTALL 12" X 12" CROSS (FLG).
16. INSTALL 12" X 8" CROSS (FLG).
17. REMOVE EMPTY METER BOX AND PATCH WITH CONCRETE IF LOCATED WITHIN SIDEWALK CORRIDOR.
18. REMOVE SUFFICIENT EXISTING PIPE IN ORDER TO INSTALL NEW MAIN. PLUG ENDS OF EXISTING WATERLINE WATERTIGHT.
19. INSTALL NEW 4" CLASS 52 DUCTILE IRON FIRE SERVICE LINE WITH POLY ENCASEMENT WRAP. RESTRAIN ALL JOINTS.
20. BACKFILL WITH CDF AT CROSSING WITH SANITARY SEWER 10 FEET EACH WAY. SEE DETAIL 5, SHEET D-05.
21. GAS LINE ENCOUNTERED IN EXPLORATORY BORING APPROXIMATELY 9 FEET DEEP. IF ENCOUNTERED DURING CONSTRUCTION, NOTIFY ENGINEER.
22. INSTALL 12" X 6" TEE (FLG).
23. INSTALL NEW 6" CLASS 51 DUCTILE IRON FIRE SERVICE LINE WITH POLY ENCASEMENT WRAP, RESTRAIN ALL JOINTS.
24. INSTALL 6" GATE VALVE (FLG X MJ).
25. ABANDON EXISTING 8" WATER MAIN
26. POTENTIAL LOCATION OF ABANDONED COMMUNICATIONS DUCT BANK. IF ENCOUNTERED, COORDINATE WITH LUMEN FOR SUFFICIENT REMOVAL WITHIN PROJECT EXTENTS.
27. INSTALL 12" X 8" REDUCER (MJ).

SANITARY SEWER KEYED NOTES

1. INSTALL 8" SEWER MAIN PER RUSA STANDARD DETAIL 445-100.
SEE PROFILE FOR DETAILS.
2. INSTALL SANITARY SEWER MANHOLE PER RUSA STANDARD DETAIL 470-100, 470-101, AND 470-150.
SEE PROFILE FOR DETAILS.
3. REMOVE EXISTING SANITARY MANHOLE.
4. INSTALL 4" PVC SANITARY SERVICE LATERAL.
5. INSTALL 6" PVC SANITARY SERVICE LATERAL.
6. POTHOLE AND VERIFY ELEVATION OF CROSSING UTILITY PRIOR TO CONNECTION AT MANHOLE 3.
7. COORDINATE WITH AVISTA TO ADJUST LOCATION OF GAS LINE PRIOR TO INSTALLATION OF ADJACENT MANHOLE.
8. ABANDON EXISTING SANITARY SEWER MANHOLE.
9. CONTRACTOR TO SUBMIT UTILITY PROTECTION PLAN FOR CONSTRUCTION NEAR EXISTING STORM MAIN TO RUSA, PRIOR TO START OF SEWER MAIN CONSTRUCTION.

811 Know what's **below.** **Call** before you dig.

NO.	DATE	BY	REVISION

SCALE: PLAN AS SHOWN; PROFILE HORIZ. / VERT.; ONE INCH (REF)

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER — 72533PE — OREGON — JAN 8, 2008 — RAWLEY D. VOORHIES — EXPIRES: 6/30/24

CENTURY WEST ENGINEERING
5500 MEADOWS RD. #250 | LAKE OSWEGO, OR 97035
WWW.CENTURYWEST.COM | 503.419.2130

900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

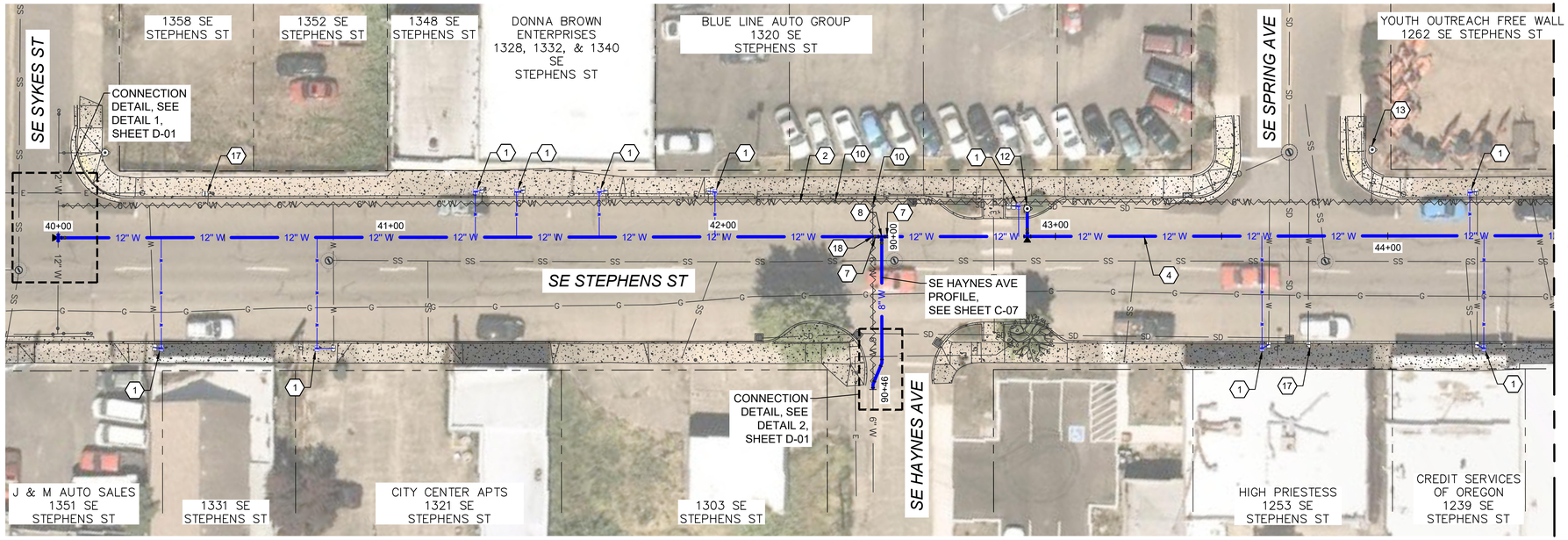
CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

GENERAL NOTES & KEYED NOTES

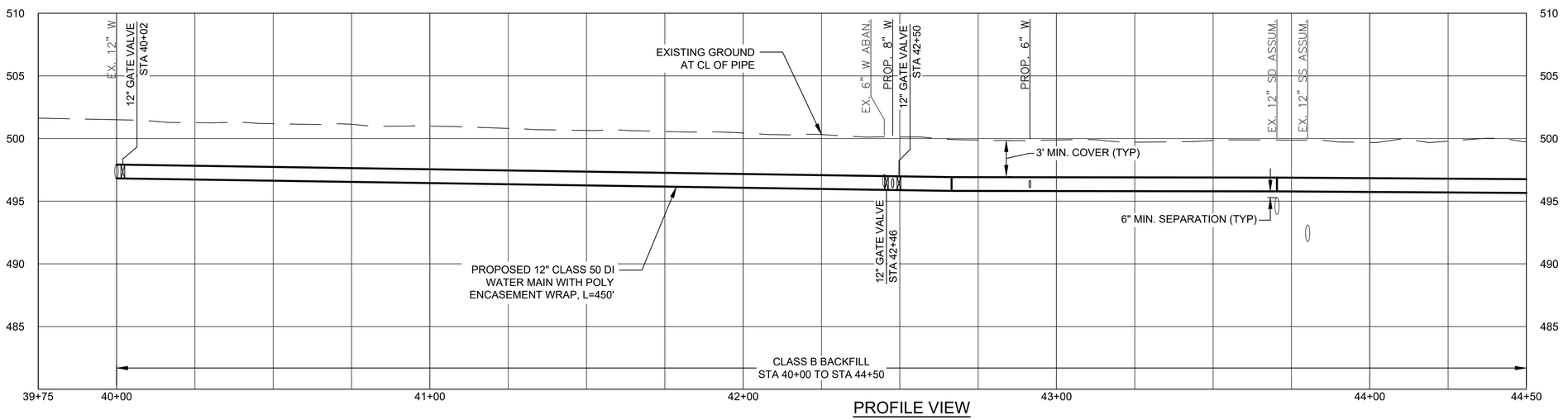
SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO. G-05

5 OF 27



PLAN VIEW
1"=20'



PROFILE VIEW
H: 1"=20'
V: 1" = 5'

WATER KEYED NOTES

(1) INSTALL SERVICE ASSEMBLY. CONNECT TO EXISTING METER. SEE SERVICE SCHEDULE. VERIFY LIMITS OF CONCRETE CURB AND MISCELLANEOUS STRUCTURE REMOVAL WITH CITY PRIOR TO INSTALLATION. BORE OR HAND EXCAVATE AS NECESSARY TO MAKE FINAL CONNECTION. SEE DETAIL NO. 1, SHEET D-05, AND CITY OF ROSEBURG STD. DWGS. NOS. 108, 110, AND 111, SHEET D-05.

(2) ABANDON EXISTING 6" WATER MAIN.

(4) INSTALL NEW DUCTILE IRON WATER MAIN WITH POLY ENCASEMENT WRAP. RESTRAIN ALL JOINTS. NOMINAL PIPE DIAMETER AND CLASS AS NOTED.

(7) INSTALL 12" GATE VALVE (FLG X MJ).

(8) INSTALL 12" X 8" TEE (FLG).

(10) REMOVE VALVE CAN AND PATCH WITH IN KIND MATERIAL.

(12) INSTALL NEW FIRE HYDRANT ASSEMBLY AT LOCATION SHOWN.
SEE CITY OF ROSEBURG STD. DWG. 105, SHEET D-04.

(13) REMOVE EXISTING FIRE HYDRANT AND VALVE CAN, PATCH WITH IN KIND MATERIAL.

(17) REMOVE EMPTY METER BOX AND PATCH WITH CONCRETE IF LOCATED WITHIN SIDEWALK CORRIDOR.

(18) REMOVE SUFFICIENT EXISTING PIPE IN ORDER TO INSTALL NEW MAIN. CONTRACTOR SHALL PHASE WORK AND/OR PROVIDE ALL TEMPORARY CONNECTIONS NECESSARY TO MAINTAIN EXISTING SERVICES. PLUG ENDS OF EXISTING WATERLINE WATERTIGHT.

CONSTRUCTION GENERAL NOTES

1. ALL TRENCH, BEDDING AND BACKFILL SHALL BE CLASS B PER DETAIL 1 ON SHEET D-01 UNLESS OTHERWISE SHOWN OR DIRECTED BY ENGINEER.
2. ALL WATER MAIN SHALL HAVE 36 INCH COVER UNLESS OTHERWISE SHOWN.
3. CAP AND FILL WITH CLSM ALL EXISTING WATERLINES TO BE ABANDONED.
4. PREMARK SAWCUT LIMITS FOR CURB, GUTTER AND SIDEWALK AND VERIFY WITH ENGINEER PRIOR TO SAWCUTTING.
5. CONTRACTOR TO MAKE NOTE OF EXISTING SERVICE LINE MATERIAL IN SERVICE SCHEDULE TABLE BELOW.

WATER SERVICE SCHEDULE

ADDRESS #	SERVICE DIA (IN)	APPROX. LENGTH (FT)	EX. SERVICE LINE MATERIAL
1328 STEPHENS	1"	16	
1332 STEPHENS	1"	16	
1340 STEPHENS	1"	16	
1320 STEPHENS	1"	16	
CITY OWNED	UNK	9	
1262 STEPHENS	1"	15	
1331 STEPHENS	1"	35	
1321 STEPHENS	1"	38	
1253 STEPHENS	1"	36	
1239 STEPHENS	1"	36	

0 20 40
SCALE OF FEET
SCALE: 1"=20'

NO.	DATE	BY	REVISION

SCALE	
PLAN	AS SHOWN
PROFILE	HORIZ.
	VERT.
ONE INCH (REF)	

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER
72533PE
OREGON
JAN 8, 2008
RAWLEY D. VOORHIES
EXPIRES: 6/30/24

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ROSEBURG, OR 97470

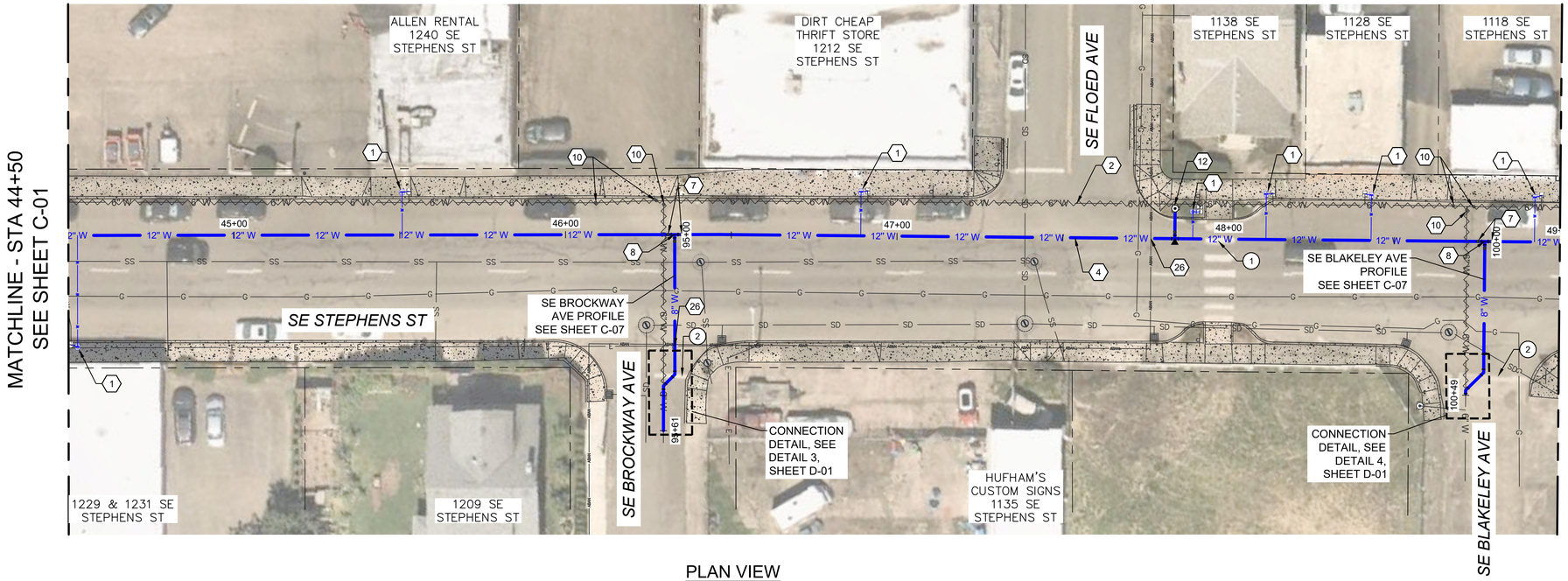
CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

STEPHENS ST WATERLINES
STA 40+00 TO STA 44+50

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO.
C-01

6 OF 27



PLAN VIEW
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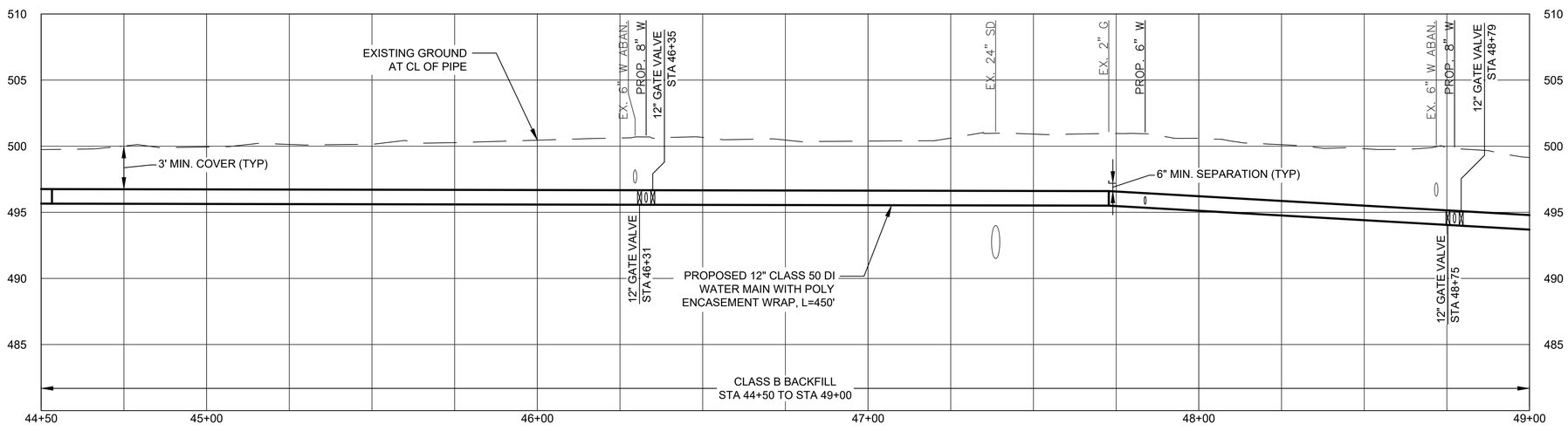

PROFILE VIEW
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WATER KEYED NOTES

(1) INSTALL SERVICE ASSEMBLY. CONNECT TO EXISTING METER. SEE SERVICE SCHEDULE. VERIFY LIMITS OF CONCRETE CURB AND MISCELLANEOUS STRUCTURE REMOVAL WITH CITY PRIOR TO INSTALLATION. BORE OR HAND EXCAVATE AS NECESSARY TO MAKE FINAL CONNECTION. SEE DETAIL NO. 1, SHEET D-05, AND CITY OF ROSEBURG STD. DWGS. NOS. 108, 110, AND 111, SHEET D-05.

(2) ABANDON EXISTING 6" WATER MAIN.

(4) INSTALL NEW DUCTILE IRON WATER MAIN WITH POLY ENCASEMENT WRAP. RESTRAIN ALL JOINTS. NOMINAL PIPE DIAMETER AND CLASS AS NOTED.

(7) INSTALL 12" GATE VALVE (FLG X MJ).

(8) INSTALL 12" X 8" TEE (FLG).

(10) REMOVE VALVE CAN AND PATCH WITH IN KIND MATERIAL.

(12) INSTALL NEW FIRE HYDRANT ASSEMBLY AT LOCATION SHOWN.
SEE CITY OF ROSEBURG STD. DWG. 105, SHEET D-04.

(26) POTENTIAL LOCATION OF ABANDONED COMMUNICATIONS DUCT BANK. IF ENCOUNTERED, COORDINATE WITH LUMEN FOR SUFFICIENT REMOVAL WITHIN PROJECT EXTENTS.

STRIPING KEYED NOTES

(1) INSTALL STAGGERED CONTINENTAL CROSSWALK 2' WHITE BAR.
SEE ODOT STD. DETAIL TH503 (CW-SC).

(2) INSTALL STOP BAR 1' WHITE BAR.
SEE ODOT STD. DETAIL TH503 (S).

CONSTRUCTION GENERAL NOTES

1. ALL TRENCH, BEDDING AND BACKFILL SHALL BE CLASS B PER DETAIL 1 ON SHEET D-01 UNLESS OTHERWISE SHOWN OR DIRECTED BY ENGINEER.
2. ALL WATER MAIN SHALL HAVE 36 INCH COVER UNLESS OTHERWISE SHOWN.
3. CAP AND FILL WITH CLSM ALL EXISTING WATERLINES TO BE ABANDONED.
4. PREMARK SAWCUT LIMITS FOR CURB, GUTTER AND SIDEWALK AND VERIFY WITH ENGINEER PRIOR TO SAWCUTTING.
5. CONTRACTOR TO MAKE NOTE OF EXISTING SERVICE LINE MATERIAL IN SERVICE SCHEDULE TABLE BELOW.

WATER SERVICE SCHEDULE

ADDRESS #	SERVICE DIA (IN)	APPROX. LENGTH (FT)	EX. SERVICE LINE MATERIAL
1240 STEPHENS	1" OHP	15	
1212 STEPHENS	1" OHP	15	
CITY OWNED	1" OHP	10	
1138 STEPHENS	1" OHP	16	
1128 STEPHENS	1" OHP	16	
1118 STEPHENS	1" OHP	16	
1229/1231 STEPHENS*	1" OHP	36	

*DUAL METER BOX

N

0 20 40
SCALE OF FEET
SCALE: 1"=20'

NO.	DATE	BY	REVISION

SCALE
PLAN: AS SHOWN
PROFILE: HORIZ.
PROFILE: VERT.
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EXPIRES: 6/30/24

CENTURY WEST ENGINEERING
5500 MEADOWS RD. #250 | LAKE OSWEGO, OR 97035
WWW.CENTURYWEST.COM | 503.419.2130

900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

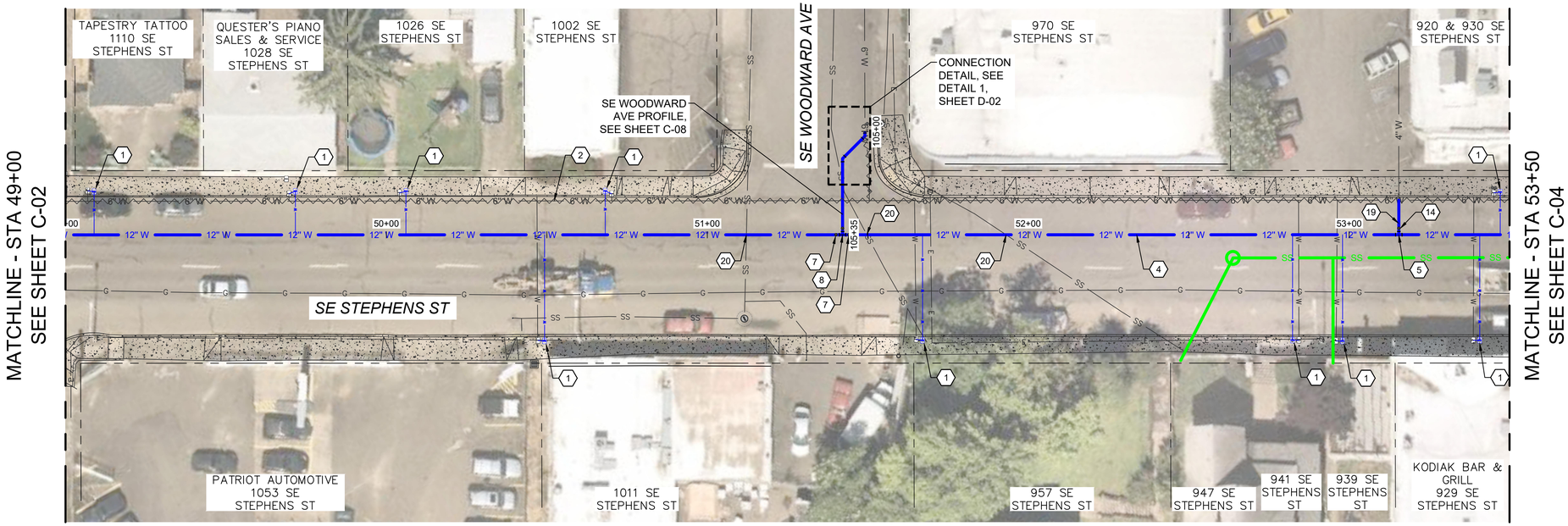
CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

STEPHENS ST WATERLINES
STA 44+50 TO STA 49+00

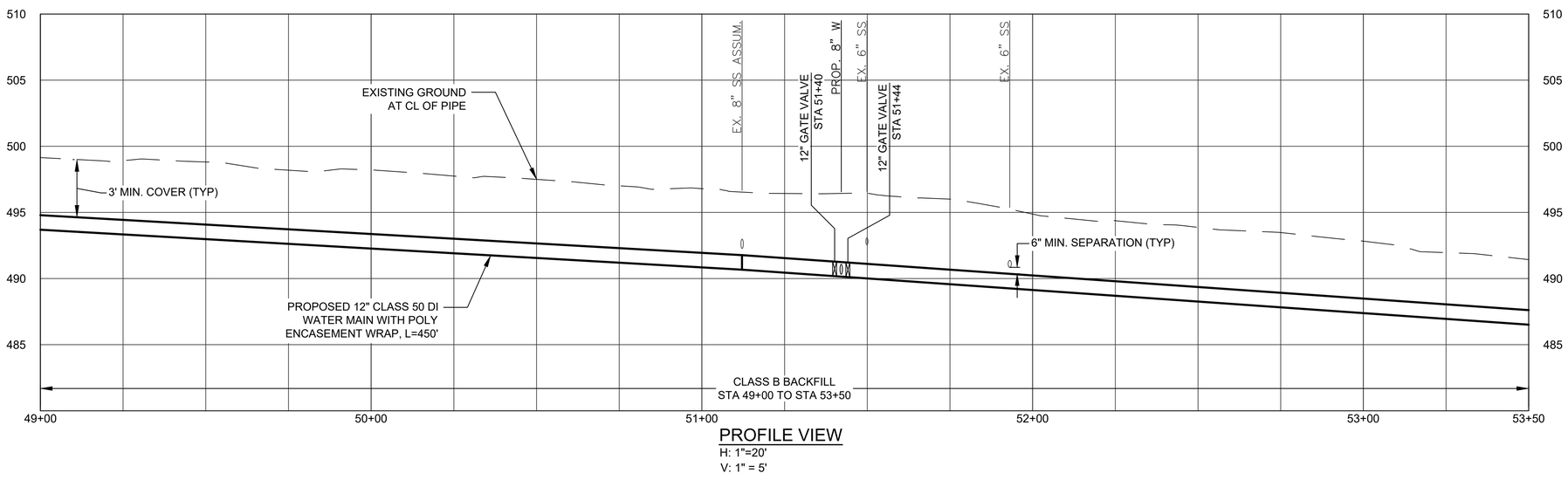
SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO.
C-02

7 OF 27



PLAN VIEW
1"=20'



PROFILE VIEW
H: 1"=20'
V: 1" = 5'

WATER KEYED NOTES

1. INSTALL SERVICE ASSEMBLY. CONNECT TO EXISTING METER. SEE SERVICE SCHEDULE. VERIFY LIMITS OF CONCRETE CURB AND MISCELLANEOUS STRUCTURE REMOVAL WITH CITY PRIOR TO INSTALLATION. BORE OR HAND EXCAVATE AS NECESSARY TO MAKE FINAL CONNECTION. SEE DETAIL NO. 1, SHEET D-05, AND CITY OF ROSEBURG STD. DWGS. NOS. 108, 110, AND 111, SHEET D-05.
2. ABANDON EXISTING 6" WATER MAIN.
4. INSTALL NEW DUCTILE IRON WATER MAIN WITH POLY ENCASEMENT WRAP. RESTRAIN ALL JOINTS. NOMINAL PIPE DIAMETER AND CLASS AS NOTED.
5. INSTALL 12" X 4" TEE (FLG).
7. INSTALL 12" GATE VALVE (FLG X MJ).
8. INSTALL 12" X 8" TEE (FLG).
14. INSTALL 4" GATE VALVE (FLG X MJ).
19. INSTALL NEW 4" CLASS 52 DUCTILE IRON FIRE SERVICE LINE WITH POLY ENCASEMENT WRAP. RESTRAIN ALL JOINTS.
20. BACKFILL WITH CDF AT CROSSING WITH SANITARY SEWER 10 FEET EACH WAY. SEE DETAIL 5, SHEET D-05.

CONSTRUCTION GENERAL NOTES

1. ALL TRENCH, BEDDING AND BACKFILL SHALL BE CLASS B PER DETAIL 1 ON SHEET D-01 UNLESS OTHERWISE SHOWN OR DIRECTED BY ENGINEER.
2. ALL WATER MAIN SHALL HAVE 36 INCH COVER UNLESS OTHERWISE SHOWN.
3. CAP AND FILL WITH CLSM ALL EXISTING WATERLINES TO BE ABANDONED.
4. PREMARK SAWCUT LIMITS FOR CURB, GUTTER AND SIDEWALK AND VERIFY WITH ENGINEER PRIOR TO SAWCUTTING.
5. CONTRACTOR TO MAKE NOTE OF EXISTING SERVICE LINE MATERIAL IN SERVICE SCHEDULE TABLE BELOW.

WATER SERVICE SCHEDULE			
ADDRESS #	SERVICE DIA (IN)	APPROX. LENGTH (FT)	EX. SERVICE LINE MATERIAL
1110 STEPHENS	1" DUAL	15	
1028 STEPHENS	1" DUAL	16	
1026 STEPHENS	1" DUAL	16	
1002 STEPHENS	1" DUAL	16	
920/930 STEPHENS*	1" DUAL	15	
1053/1011 STEPHENS*	1" DUAL	35	
957 STEPHENS	1" DUAL	35	
947 STEPHENS	1" DUAL	35	
941/939 STEPHENS*	1" DUAL	35	
929 STEPHENS	1" DUAL	35	

*DUAL METER BOX

N

0 20 40
SCALE OF FEET
SCALE: 1"=20'

NO.	DATE	BY	REVISION

SCALE	
PLAN	AS SHOWN
PROFILE	HORIZ.
	VERT.
ONE INCH (REF)	

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER
72533PE
OREGON
JAN 8, 2008
RAWLEY D. VOORHIES
EXPIRES: 6/30/24

CENTURY WEST ENGINEERING
5500 MEADOWS RD. #250 | LAKE OSWEGO, OR 97035
WWW.CENTURYWEST.COM | 503.419.2130

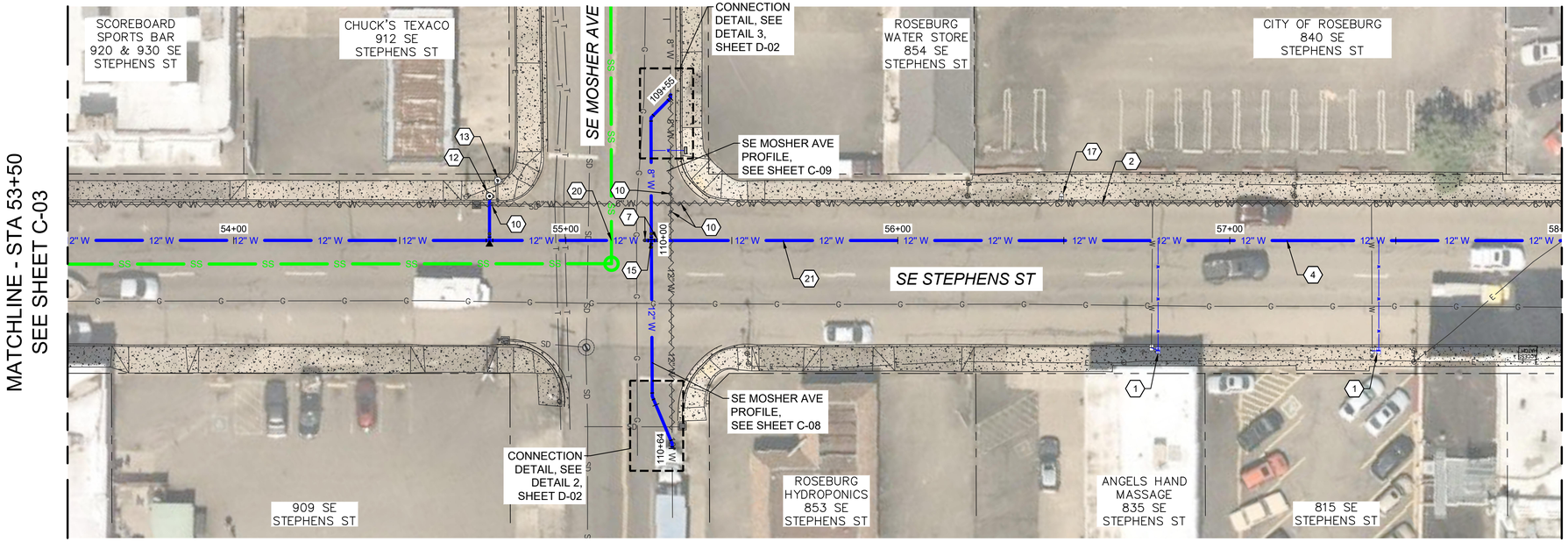
900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

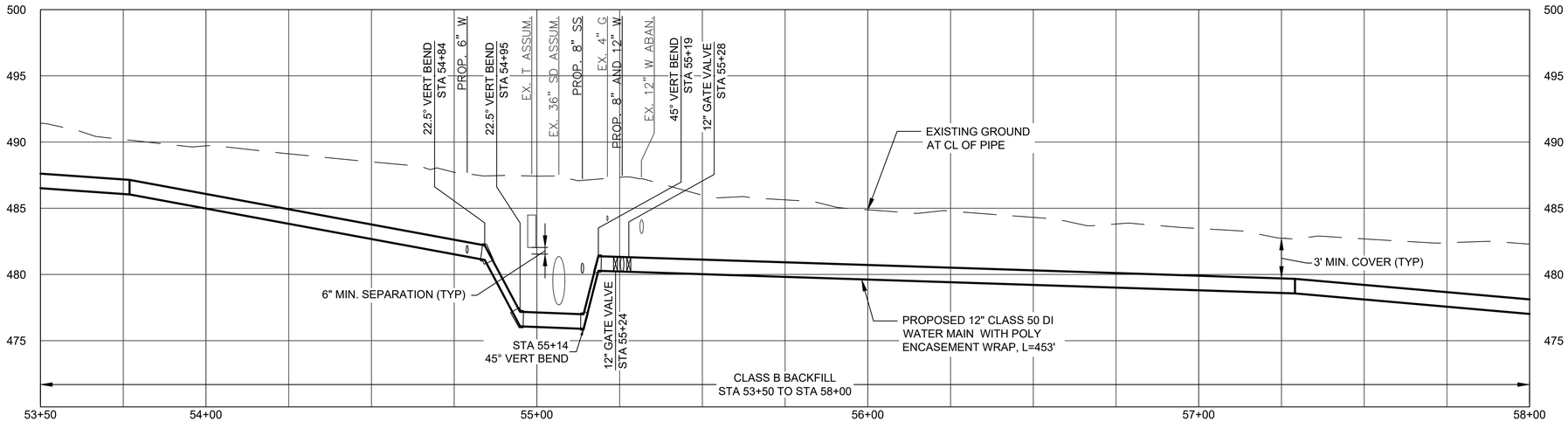
STEPHENS ST WATERLINES STA 49+00 TO STA 53+50

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO.
C-03
8 OF 27



PLAN VIEW
1"=20'



PROFILE VIEW
H: 1"=20'
V: 1" = 5'

WATER KEYED NOTES

1. INSTALL SERVICE ASSEMBLY. CONNECT TO EXISTING METER. SEE SERVICE SCHEDULE. VERIFY LIMITS OF CONCRETE CURB AND MISCELLANEOUS STRUCTURE REMOVAL WITH CITY PRIOR TO INSTALLATION. BORE OR HAND EXCAVATE AS NECESSARY TO MAKE FINAL CONNECTION. SEE DETAIL NO. 1, SHEET D-05, AND CITY OF ROSEBURG STD. DWGS. NOS. 108, 110, AND 111 SHEET D-05.
2. ABANDON EXISTING 6" WATER MAIN.
4. INSTALL NEW DUCTILE IRON WATER MAIN WITH POLY ENCASEMENT WRAP. RESTRAIN ALL JOINTS. NOMINAL PIPE DIAMETER AND CLASS AS NOTED.
7. INSTALL 12" GATE VALVE (FLG X MJ).
10. REMOVE VALVE CAN AND PATCH WITH IN KIND MATERIAL.
12. INSTALL NEW FIRE HYDRANT ASSEMBLY AT LOCATION SHOWN.
    SEE CITY OF ROSEBURG STD. DWG. 105, SHEET D-04.
13. REMOVE EXISTING FIRE HYDRANT AND VALVE CAN, PATCH WITH IN KIND MATERIAL.
15. INSTALL 12" X 12" CROSS (FLG).
17. REMOVE EMPTY METER BOX AND PATCH WITH CONCRETE IF LOCATED WITHIN SIDEWALK CORRIDOR.
20. BACKFILL WITH CDF AT CROSSING WITH SANITARY SEWER 10 FEET EACH WAY. SEE DETAIL 5, SHEET D-05.
21. GAS LINE ENCOUNTERED IN EXPLORATORY BORING APPROXIMATELY 9 FEET DEEP. IF ENCOUNTERED DURING CONSTRUCTION, NOTIFY ENGINEER.

CONSTRUCTION GENERAL NOTES

1. ALL TRENCH, BEDDING AND BACKFILL SHALL BE CLASS B PER DETAIL 1 ON SHEET D-01 UNLESS OTHERWISE SHOWN OR DIRECTED BY ENGINEER.
2. ALL WATER MAIN SHALL HAVE 36 INCH COVER UNLESS OTHERWISE SHOWN.
3. CAP AND FILL WITH CLSM ALL EXISTING WATERLINES TO BE ABANDONED.
4. PREMARK SAWCUT LIMITS FOR CURB, GUTTER AND SIDEWALK AND VERIFY WITH ENGINEER PRIOR TO SAWCUTTING.
5. CONTRACTOR TO MAKE NOTE OF EXISTING SERVICE LINE MATERIAL IN SERVICE SCHEDULE TABLE BELOW.

WATER SERVICE SCHEDULE			
ADDRESS #	SERVICE DIA (IN)	APPROX. LENGTH (FT)	EX. SERVICE LINE MATERIAL
835 STEPHENS	1"	35	
815 STEPHENS	1"	35	

N

0 20 40
SCALE OF FEET
SCALE: 1"=20'

NO.	DATE	BY	REVISION

SCALE
PLAN: AS SHOWN
PROFILE: HORIZ.
PROFILE: VERT.
ONE INCH (REF)

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER
72533PE
OREGON
JAN. 8, 2008
RAWLEY D. VOORHIES
EXPIRES: 6/30/24

CENTURY WEST ENGINEERING
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900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

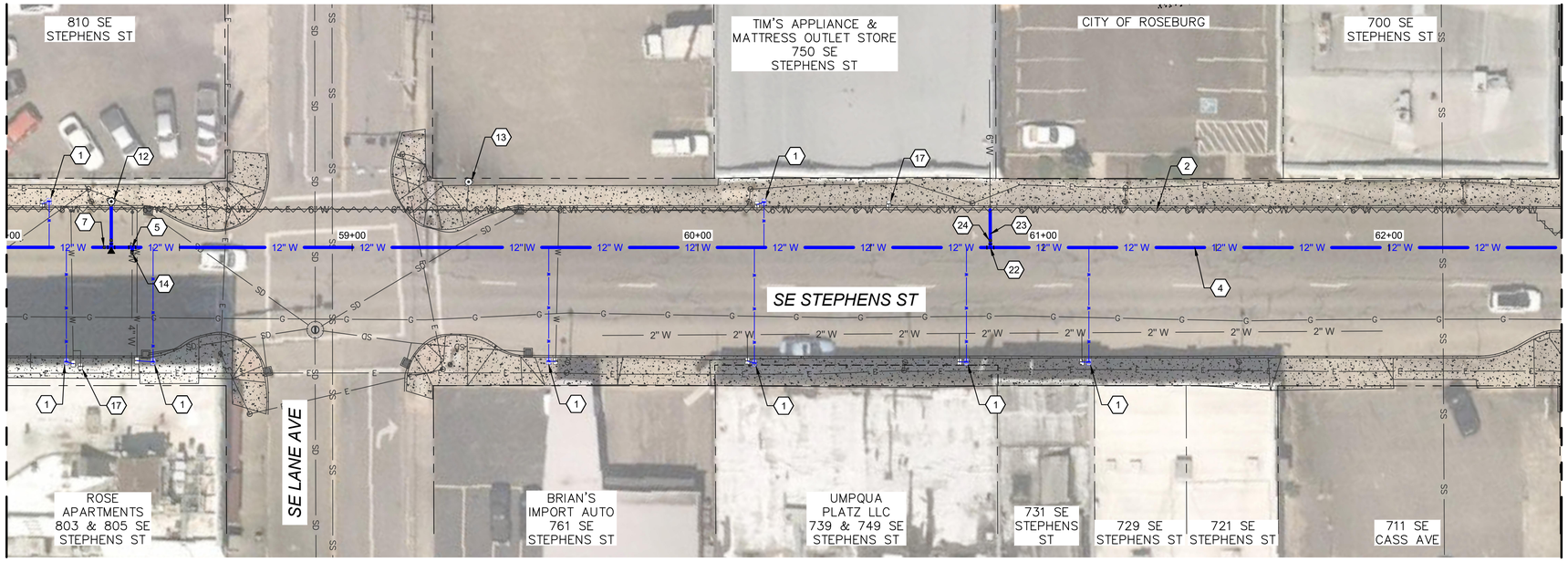
CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

STEPHENS ST WATERLINES STA 53+50 TO STA 58+00

SE STEPHENS WATER MAIN REPLACEMENT MAY 2024

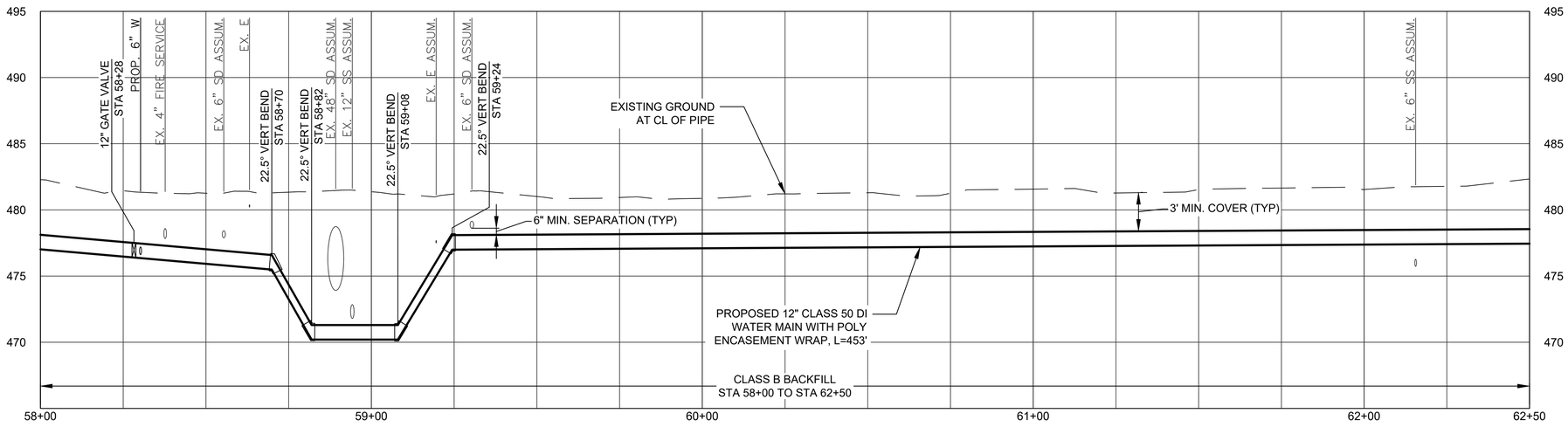
SHEET NO.
C-04

MATCHLINE - STA 58+00
SEE SHEET C-04



MATCHLINE - STA 62+50
SEE SHEET C-06

PLAN VIEW
1"=20'



PROFILE VIEW
H: 1"=20'
V: 1" = 5'

WATER KEYED NOTES

1. INSTALL SERVICE ASSEMBLY. CONNECT TO EXISTING METER. SEE SERVICE SCHEDULE. VERIFY LIMITS OF CONCRETE CURB AND MISCELLANEOUS STRUCTURE REMOVAL WITH CITY PRIOR TO INSTALLATION. BORE OR HAND EXCAVATE AS NECESSARY TO MAKE FINAL CONNECTION. SEE DETAIL NO. 1, SHEET D-05, AND CITY OF ROSEBURG STD. DWGS. NOS. 108, 110, AND 111, SHEET D-05.
2. ABANDON EXISTING 6" WATER MAIN.
4. INSTALL NEW DUCTILE IRON WATER MAIN WITH POLY ENCASEMENT WRAP. RESTRAIN ALL JOINTS. NOMINAL PIPE DIAMETER AND CLASS AS NOTED.
5. INSTALL 12" X 4" TEE (FLG).
7. INSTALL 12" GATE VALVE (FLG X MJ).
12. INSTALL NEW FIRE HYDRANT ASSEMBLY AT LOCATION SHOWN. SEE CITY OF ROSEBURG STD. DWG. 105, SHEET D-04.
13. REMOVE EXISTING FIRE HYDRANT AND VALVE CAN, PATCH WITH IN KIND MATERIAL.
14. INSTALL 4" GATE VALVE (FLG X MJ).
17. REMOVE EMPTY METER BOX AND PATCH WITH CONCRETE IF LOCATED WITHIN SIDEWALK CORRIDOR.
22. INSTALL 12" X 6" TEE (FLG).
23. INSTALL NEW 6" CLASS 51 DUCTILE IRON FIRE SERVICE LINE WITH POLY ENCASEMENT WRAP, RESTRAIN ALL JOINTS.
24. INSTALL 6" GATE VALVE (FLG X MJ).

CONSTRUCTION GENERAL NOTES

1. ALL TRENCH, BEDDING AND BACKFILL SHALL BE CLASS B PER DETAIL 1 ON SHEET D-01 UNLESS OTHERWISE SHOWN OR DIRECTED BY ENGINEER.
2. ALL WATER MAIN SHALL HAVE 36 INCH COVER UNLESS OTHERWISE SHOWN.
3. CAP AND FILL WITH CLSM ALL EXISTING WATERLINES TO BE ABANDONED.
4. PREMARK SAWCUT LIMITS FOR CURB, GUTTER AND SIDEWALK AND VERIFY WITH ENGINEER PRIOR TO SAWCUTTING.
5. CONTRACTOR TO MAKE NOTE OF EXISTING SERVICE LINE MATERIAL IN SERVICE SCHEDULE TABLE BELOW.

WATER SERVICE SCHEDULE

ADDRESS #	SERVICE DIA (IN)	APPROX. LENGTH (FT)	EX. SERVICE LINE MATERIAL
810 STEPHENS	1"	16	
750 STEPHENS	1"	15	
803 STEPHENS	2"	35	
805 STEPHENS	1"	38	
761 STEPHENS	1"	35	
739 STEPHENS	1"	36	
749 STEPHENS	1"	35	
729 STEPHENS	1"	35	

0 20 40
SCALE OF FEET
SCALE: 1"=20'

NO.	DATE	BY	REVISION

SCALE
PLAN: AS SHOWN
PROFILE: HORIZ. / VERT.
ONE INCH (REF)

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER
72533PE
OREGON
JAN 8, 2008
RAMLEY D. VOORHIES
EXPIRES: 6/30/24

CENTURY WEST ENGINEERING
5500 MEADOWS RD. #250 | LAKE OSWEGO, OR 97035
WWW.CENTURYWEST.COM | 503.419.2130

900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

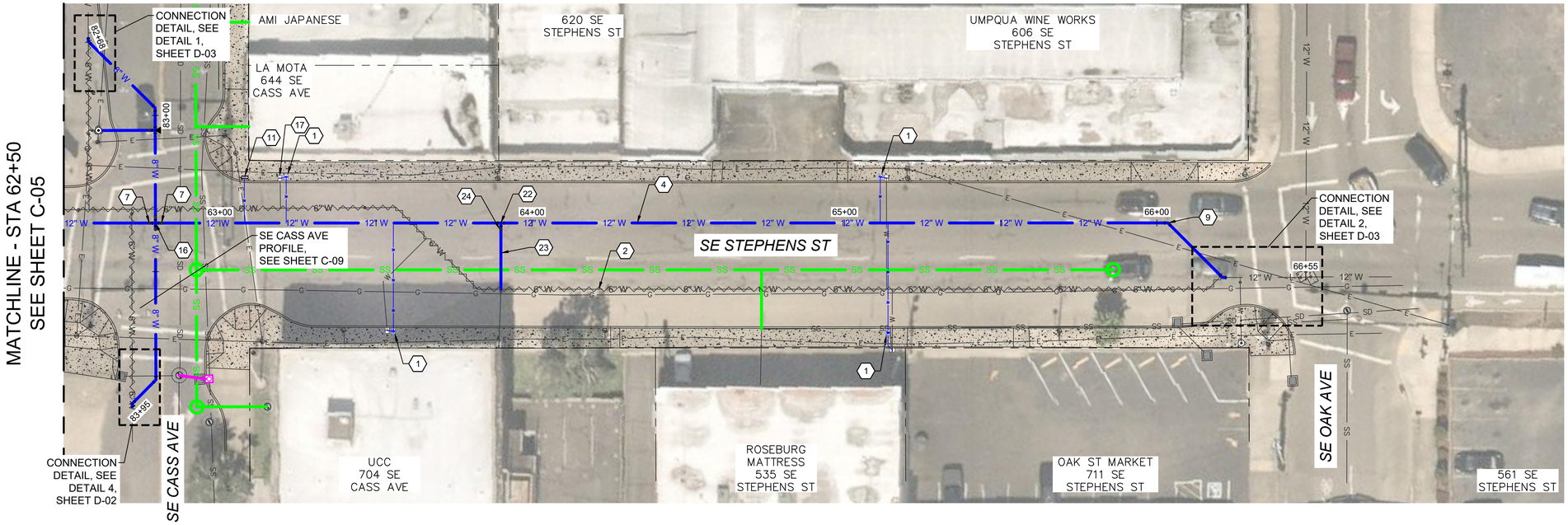
STEPHENS ST WATERLINES
STA 58+00 TO STA 62+50

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

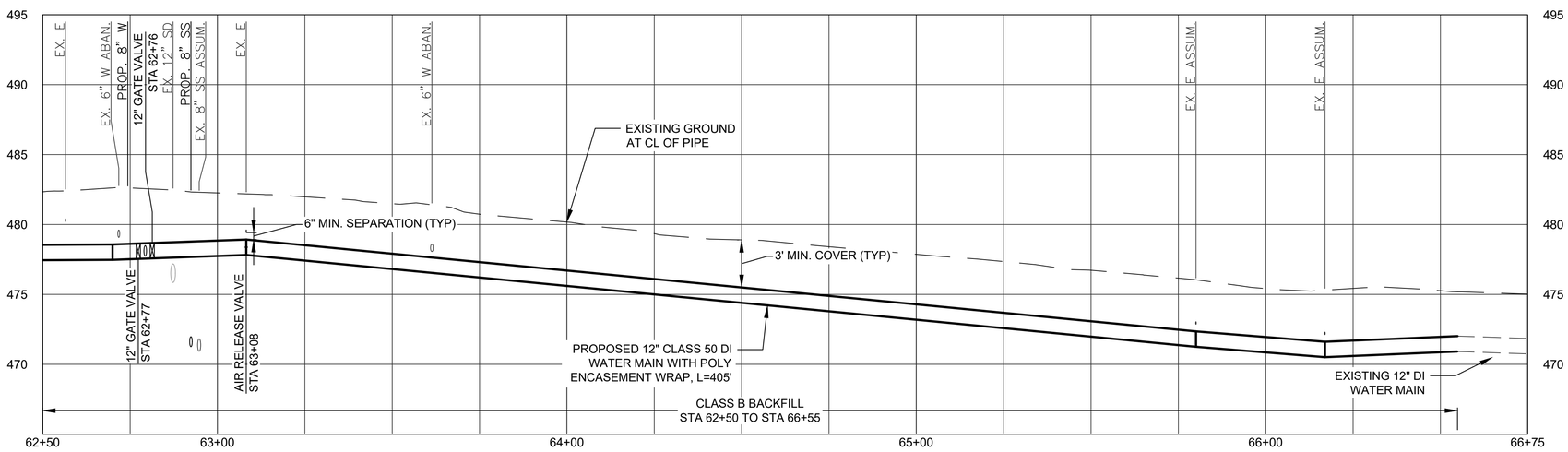
SHEET NO.
C-05

10 OF 27

Y:\Projects\Roseburg, City of\024-Pine & Stephens Water\CAD_WORKING\Roseburg - Stephens Water\C-01 to C-09.dwg 6/4/2024 3:41 PM Lauryn Ryan



PLAN VIEW
1"=20'



PROFILE VIEW
H: 1"=20'
V: 1" = 5'

WATER KEYED NOTES

1. INSTALL SERVICE ASSEMBLY. CONNECT TO EXISTING METER. SEE SERVICE SCHEDULE. VERIFY LIMITS OF CONCRETE CURB AND MISCELLANEOUS STRUCTURE REMOVAL WITH CITY PRIOR TO INSTALLATION. BORE OR HAND EXCAVATE AS NECESSARY TO MAKE FINAL CONNECTION. SEE DETAIL NO. 1, SHEET D-05, AND CITY OF ROSEBURG STD. DWGS. NOS. 108, 110, AND 111, SHEET D-05.
2. ABANDON EXISTING 6" WATER MAIN.
4. INSTALL NEW DUCTILE IRON WATER MAIN WITH POLY ENCASEMENT WRAP. RESTRAIN ALL JOINTS. NOMINAL PIPE DIAMETER AND CLASS AS NOTED.
7. INSTALL 12" GATE VALVE (FLG X MJ).
9. INSTALL 45 DEGREE ELBOW.
11. INSTALL 1" ARV ASSEMBLY. SEE DETAIL 5, SHEET D-04
16. INSTALL 12" X 8" CROSS (FLG).
22. INSTALL 12" X 6" TEE (FLG).
23. INSTALL NEW 6" CLASS 51 DUCTILE IRON FIRE SERVICE LINE WITH POLY ENCASEMENT WRAP, RESTRAIN ALL JOINTS.
24. INSTALL 6" GATE VALVE (FLG X MJ).

CONSTRUCTION GENERAL NOTES

1. ALL TRENCH, BEDDING AND BACKFILL SHALL BE CLASS B PER DETAIL 1 ON SHEET D-01 UNLESS OTHERWISE SHOWN OR DIRECTED BY ENGINEER.
2. ALL WATER MAIN SHALL HAVE 36 INCH COVER UNLESS OTHERWISE SHOWN.
3. CAP AND FILL WITH CLSM ALL EXISTING WATERLINES TO BE ABANDONED.
4. PREMARK SAWCUT LIMITS FOR CURB, GUTTER AND SIDEWALK AND VERIFY WITH ENGINEER PRIOR TO SAWCUTTING.
5. CONTRACTOR TO MAKE NOTE OF EXISTING SERVICE LINE MATERIAL IN SERVICE SCHEDULE TABLE BELOW.

WATER SERVICE SCHEDULE

ADDRESS #	SERVICE DIA (IN)	APPROX. LENGTH (FT)	EX. SERVICE LINE MATERIAL
644 CASS	5/8"	17	
606 STEPHENS	1"	17	
704 CASS	2"	37	
535 STEPHENS	5/8"	41	

N

0 20 40
SCALE OF FEET
SCALE: 1"=20'

NO.	DATE	BY	REVISION

SCALE		DESIGNED:
PLAN	AS SHOWN	P. MILLER
PROFILE	HORIZ.	DRAWN: L. RYAN
	VERT.	CHECKED: R. VOORHIES
ONE INCH (REF)		CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER
72533PE
OREGON
JAN 8, 2008
RAWLEY D. VOORHIES
EXPIRES: 6/30/24

CENTURY WEST ENGINEERING
5500 MEADOWS RD. #250 | LAKE OSWEGO, OR 97035
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900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

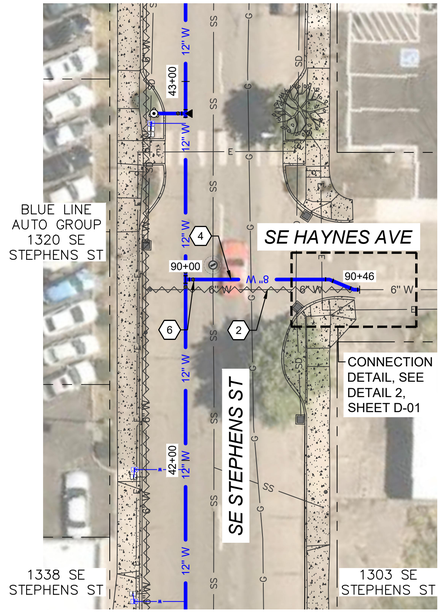
CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

STEPHENS ST WATERLINES STA 62+50 TO STA 66+55

SE STEPHENS WATER MAIN REPLACEMENT MAY 2024

SHEET NO.
C-06
11 OF 27

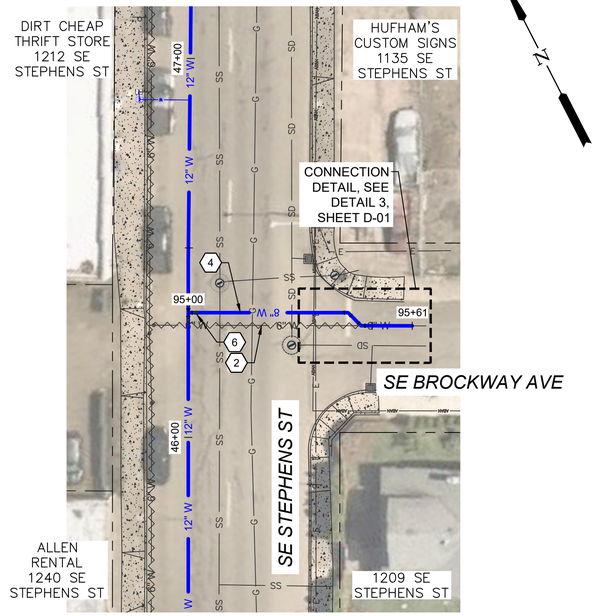
SEE SHEET C-01
FOR CONTINUATION



SEE SHEET C-01
FOR CONTINUATION

PLAN VIEW
1"=20'

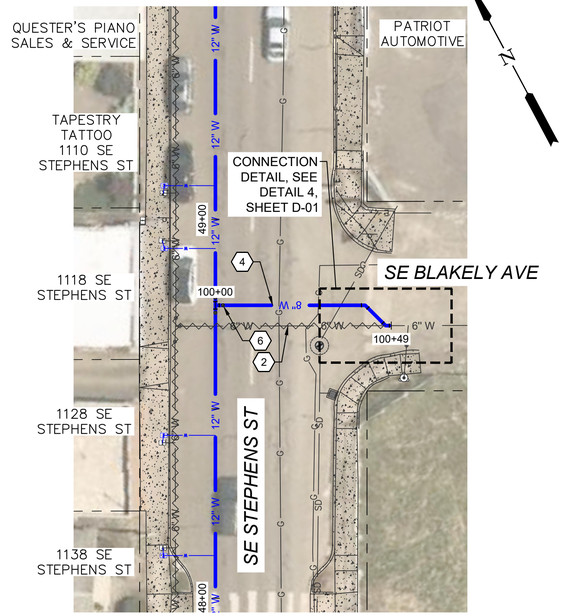
SEE SHEET C-02
FOR CONTINUATION



SEE SHEET C-02
FOR CONTINUATION

PLAN VIEW
1"=20'

SEE SHEET C-03
FOR CONTINUATION



SEE SHEET C-02
FOR CONTINUATION

PLAN VIEW
1"=20'

WATER KEYED NOTES

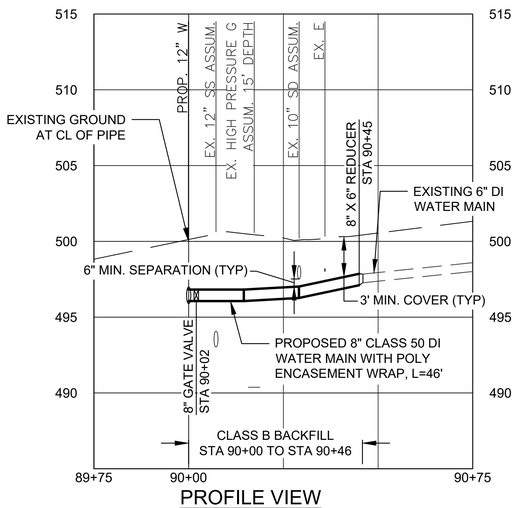
(2) ABANDON EXISTING 6" WATER MAIN.

(4) INSTALL NEW DUCTILE IRON WATER MAIN WITH POLY ENCASEMENT WRAP. RESTRAIN ALL JOINTS. NOMINAL PIPE DIAMETER AND CLASS AS NOTED.

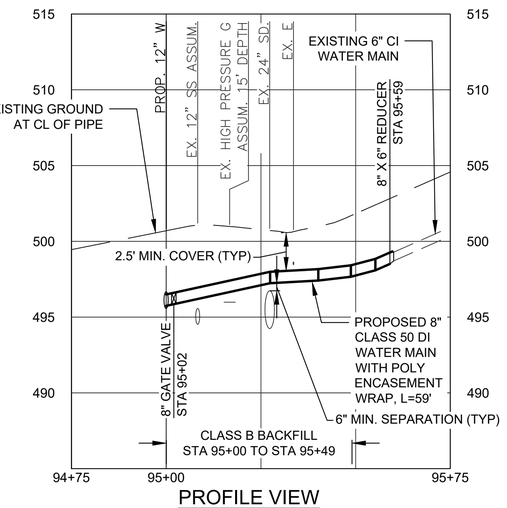
(6) INSTALL 8" GATE VALVE (FLG X MJ).

CONSTRUCTION GENERAL NOTES

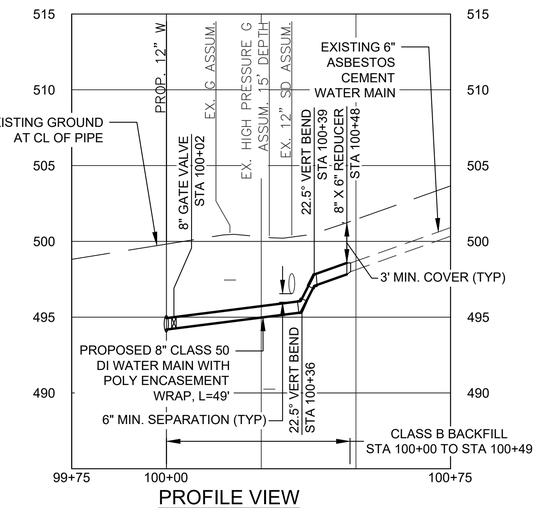
1. ALL TRENCH, BEDDING AND BACKFILL SHALL BE CLASS B PER DETAIL 1 ON SHEET D-01 UNLESS OTHERWISE SHOWN OR DIRECTED BY ENGINEER.
2. ALL WATER MAIN SHALL HAVE 36 INCH COVER UNLESS OTHERWISE SHOWN.
3. CAP AND FILL WITH CLSM ALL EXISTING WATERLINES TO BE ABANDONED.
4. PREMARK SAWCUT LIMITS FOR CURB, GUTTER AND SIDEWALK AND VERIFY WITH ENGINEER PRIOR TO SAWCUTTING.



PROFILE VIEW
H: 1"=20'
V: 1" = 5'



PROFILE VIEW
H: 1"=20'
V: 1" = 5'



PROFILE VIEW
H: 1"=20'
V: 1" = 5'

0 20 40
SCALE OF FEET
SCALE: 1"=20'

NO.	DATE	BY	REVISION

SCALE	
PLAN	AS SHOWN
PROFILE	HORIZ.
	VERT.
ONE INCH (REF)	

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER
72533PE
OREGON
JAN 8, 2008
RAWLEY D. VOORHIES
EXPIRES: 6/30/24

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ROSEBURG, OR 97470

CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

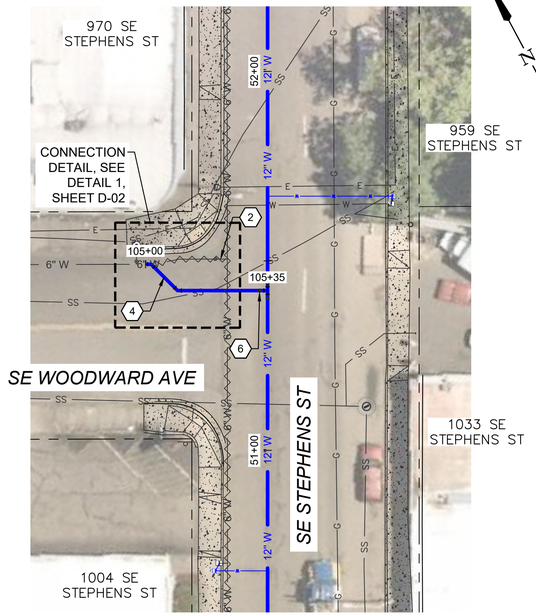
STEPHENS SIDE STREET WATERLINES

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO.
C-07
12 OF 27

Y:\Projects\Roseburg, City of\024-Pine & Stephens Water\CAD_WORKING\Roseburg - Stephens Water\C-01 to C-09.dwg 6/4/2024 3:41 PM Lauryn Ryan

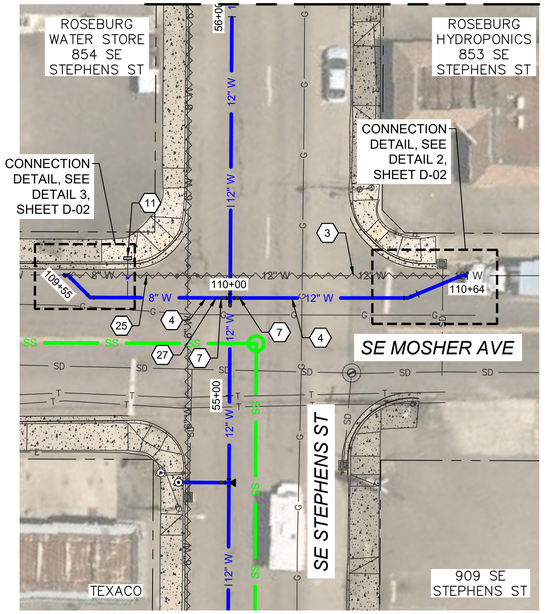
SEE SHEET C-03
FOR CONTINUATION



SEE SHEET C-03
FOR CONTINUATION

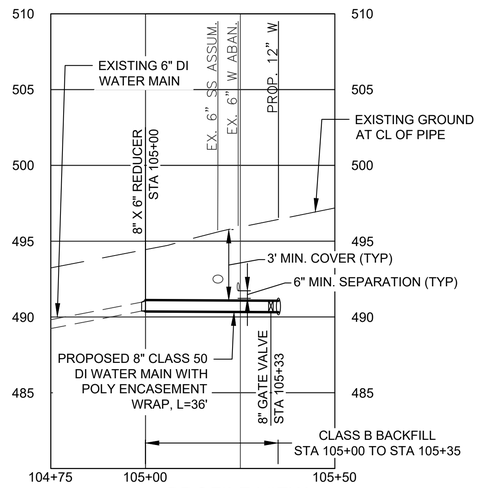
PLAN VIEW
1"=20'

SEE SHEET C-04
FOR CONTINUATION

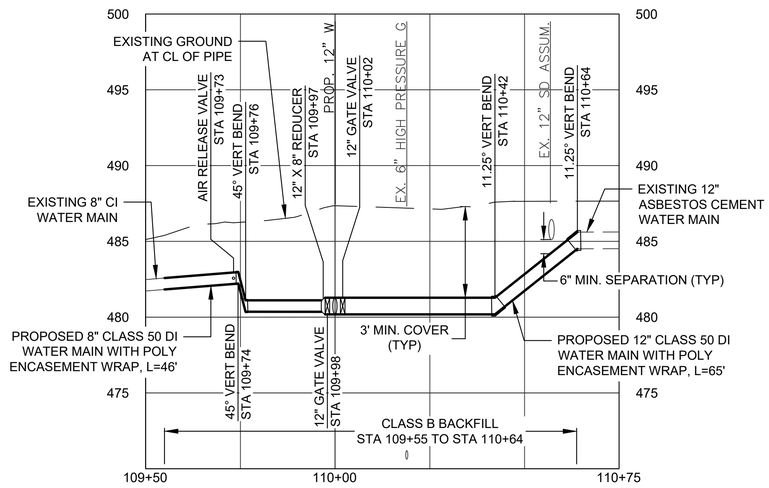


SEE SHEET C-04
FOR CONTINUATION

PLAN VIEW
1"=20'



PROFILE VIEW
H: 1"=20'
V: 1" = 5'



PROFILE VIEW
H: 1"=20'
V: 1" = 5'

WATER KEYED NOTES

2. ABANDON EXISTING 6" WATER MAIN.
3. ABANDON EXISTING 12" WATER MAIN.
4. INSTALL NEW DUCTILE IRON WATER MAIN WITH POLY ENCASEMENT WRAP. RESTRAIN ALL JOINTS. NOMINAL PIPE DIAMETER AND CLASS AS NOTED.
6. INSTALL 8" GATE VALVE (FLG X MJ).
7. INSTALL 12" GATE VALVE (FLG X MJ).
11. INSTALL 1" ARV ASSEMBLY, SEE DETAIL 5, SHEET D-04.
25. ABANDON EXISTING 8" WATER MAIN.
27. INSTALL 12" X 8" REDUCER (MJ).

CONSTRUCTION GENERAL NOTES

1. ALL TRENCH, BEDDING AND BACKFILL SHALL BE CLASS B PER DETAIL 1 ON SHEET D-01 UNLESS OTHERWISE SHOWN OR DIRECTED BY ENGINEER.
2. ALL WATER MAIN SHALL HAVE 36 INCH COVER UNLESS OTHERWISE SHOWN.
3. CAP AND FILL WITH CLSM ALL EXISTING WATERLINES TO BE ABANDONED.
4. PREMARK SAWCUT LIMITS FOR CURB, GUTTER AND SIDEWALK AND VERIFY WITH ENGINEER PRIOR TO SAWCUTTING.

0 20 40
SCALE OF FEET
SCALE: 1"=20'

NO.	DATE	BY	REVISION

SCALE	
PLAN	AS SHOWN
PROFILE	HORIZ.
	VERT.
ONE INCH (REF)	

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER
72533PE
OREGON
JAN 8, 2008
RAWLEY D. VOORHIES
EXPIRES: 6/30/24

CENTURY WEST ENGINEERING
5500 MEADOWS RD. #250 | LAKE OSWEGO, OR 97035
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900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

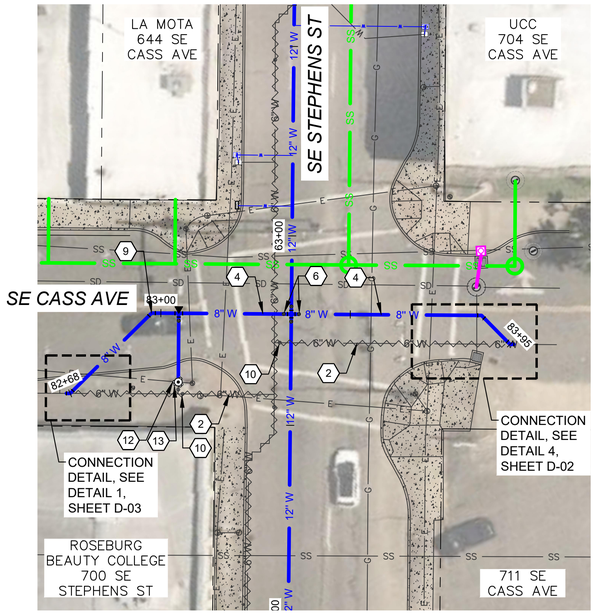
STEPHENS SIDE STREET WATERLINES

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

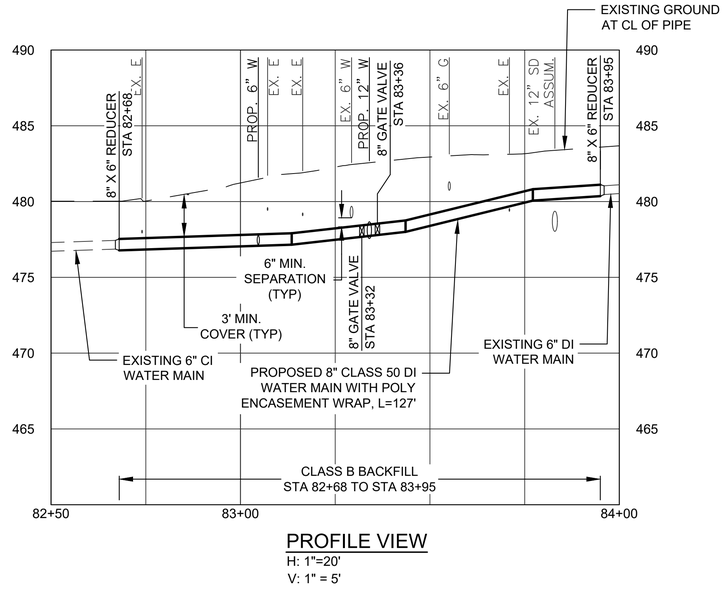
SHEET NO.
C-08
13 OF 27

Y:\Projects\Roseburg, City of\024-Pine & Stephens Water\CAD_ WORKING\Roseburg - Stephens Water\C-01 to C-09.dwg 6/4/2024 3:41 PM Lauryn Ryan

SEE SHEET C-06
FOR CONTINUATION



SEE SHEET C-05
FOR CONTINUATION



PROFILE VIEW
H: 1"=20'
V: 1" = 5'

WATER KEYED NOTES

2. ABANDON EXISTING 6" WATER MAIN.
4. INSTALL NEW DUCTILE IRON WATER MAIN WITH POLY ENCASEMENT WRAP. RESTRAIN ALL JOINTS. NOMINAL PIPE DIAMETER AND CLASS AS NOTED.
6. INSTALL 8" GATE VALVE (FLG X MJ).
9. INSTALL 45 DEGREE ELBOW.
10. REMOVE VALVE CAN AND PATCH WITH IN KIND MATERIAL.
12. INSTALL NEW FIRE HYDRANT ASSEMBLY AT LOCATION SHOWN.
SEE CITY OF ROSEBURG STD. DWG. 105, SHEET D-04.
13. REMOVE EXISTING FIRE HYDRANT AND VALVE CAN, PATCH WITH IN KIND MATERIAL.

CONSTRUCTION GENERAL NOTES

1. ALL TRENCH, BEDDING AND BACKFILL SHALL BE CLASS B PER DETAIL 1 ON SHEET D-01 UNLESS OTHERWISE SHOWN OR DIRECTED BY ENGINEER.
2. ALL WATER MAIN SHALL HAVE 36 INCH COVER UNLESS OTHERWISE SHOWN.
3. CAP AND FILL WITH CLSM ALL EXISTING WATERLINES TO BE ABANDONED.
4. PREMARK SAWCUT LIMITS FOR CURB, GUTTER AND SIDEWALK AND VERIFY WITH ENGINEER PRIOR TO SAWCUTTING.

0 20 40
SCALE OF FEET
SCALE: 1"=20'

NO.	DATE	BY	REVISION

SCALE
PLAN: AS SHOWN
PROFILE: HORIZ. / VERT.
ONE INCH (REF)

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER
77533PE
OREGON
JAN. 8, 2008
RAWLEY D. VOORHIES
EXPIRES: 6/30/24

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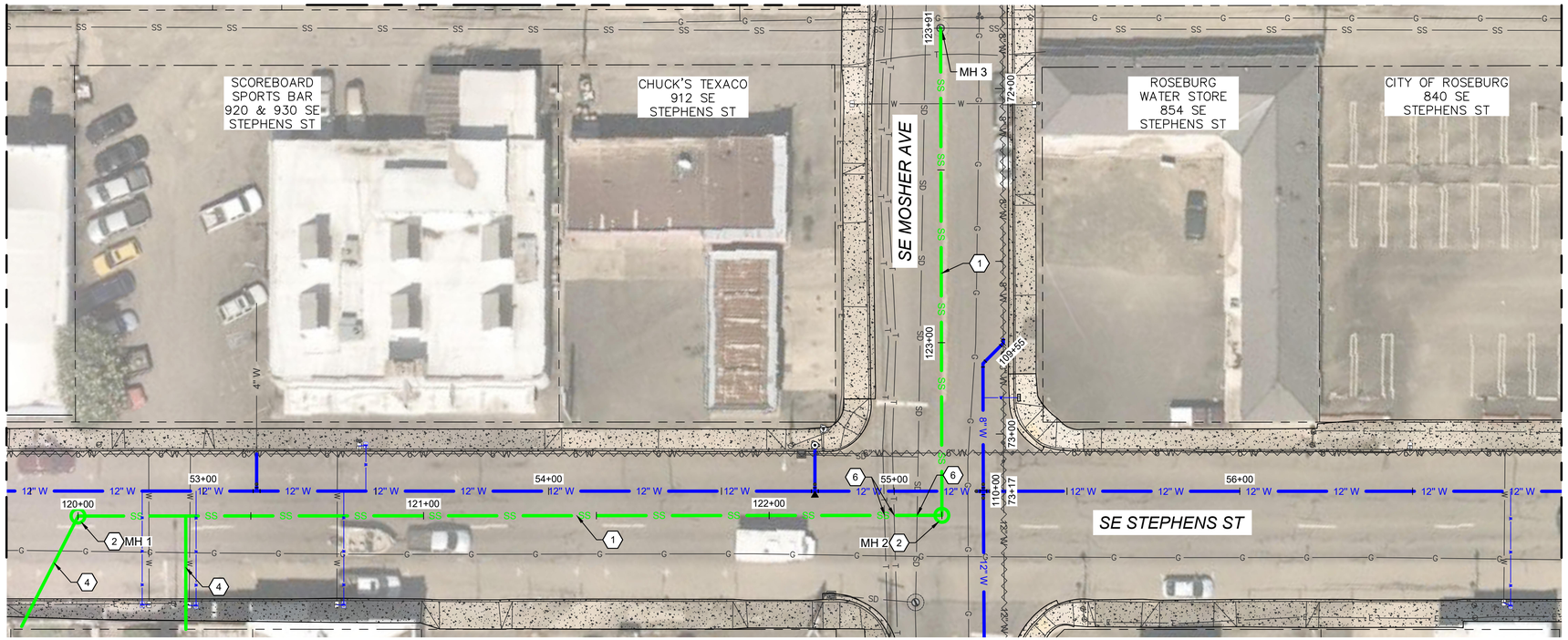
STEPHENS SIDE STREET WATERLINES

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO.
C-09
14 OF 27

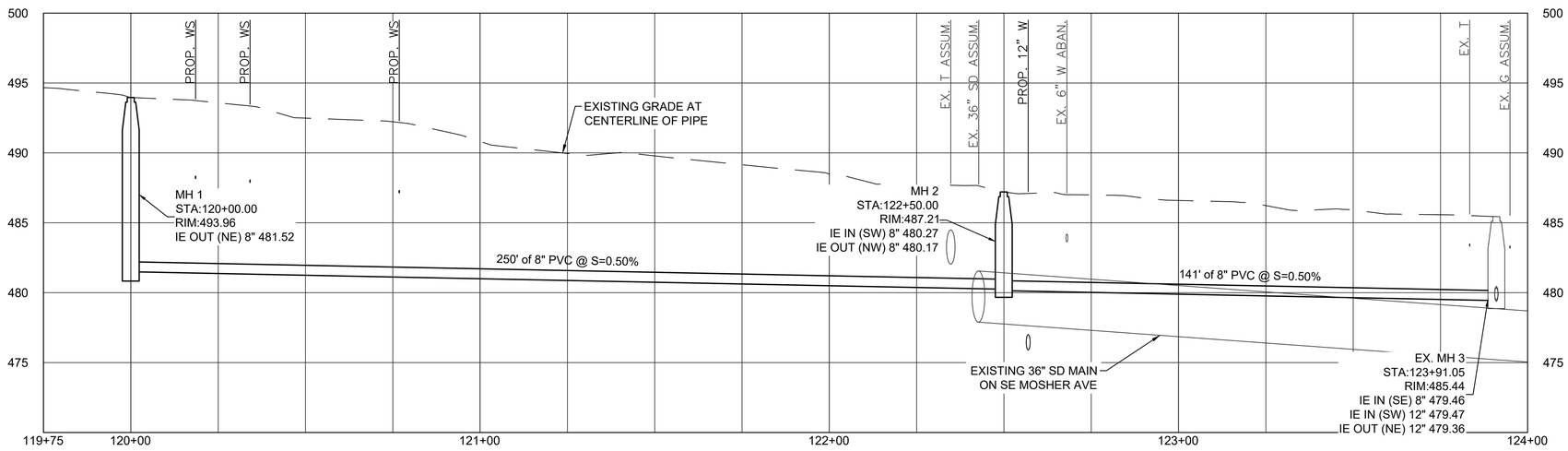
SANITARY SEWER KEYED NOTES

1. INSTALL 8" SEWER MAIN PER RUSA STANDARD DETAIL 445-100.
   SEE PROFILE FOR DETAILS.
2. INSTALL SANITARY SEWER MANHOLE PER RUSA STANDARD DETAIL 470-100, 470-101, 470-150.
   SEE PROFILE FOR DETAILS.
4. INSTALL 4" PVC SANITARY SERVICE LATERAL.
6. POTHOLE AND VERIFY ELEVATION OF CROSSING UTILITY PRIOR TO CONNECTION AT MANHOLE 3.



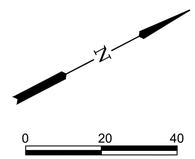
PLAN VIEW

1"=20'



PROFILE VIEW

H: 1"=20'
V: 1" = 5'



NO.	DATE	BY	REVISION

SCALE	
PLAN	AS SHOWN
PROFILE	HORIZ.
	VERT.
ONE INCH (REF)	

DESIGNED: P. MILLER
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REGISTERED PROFESSIONAL ENGINEER — 72533PE — OREGON — JAN. 8, 2008 — RAWLEY D. VOORHIES
EXPIRES: 6/30/24

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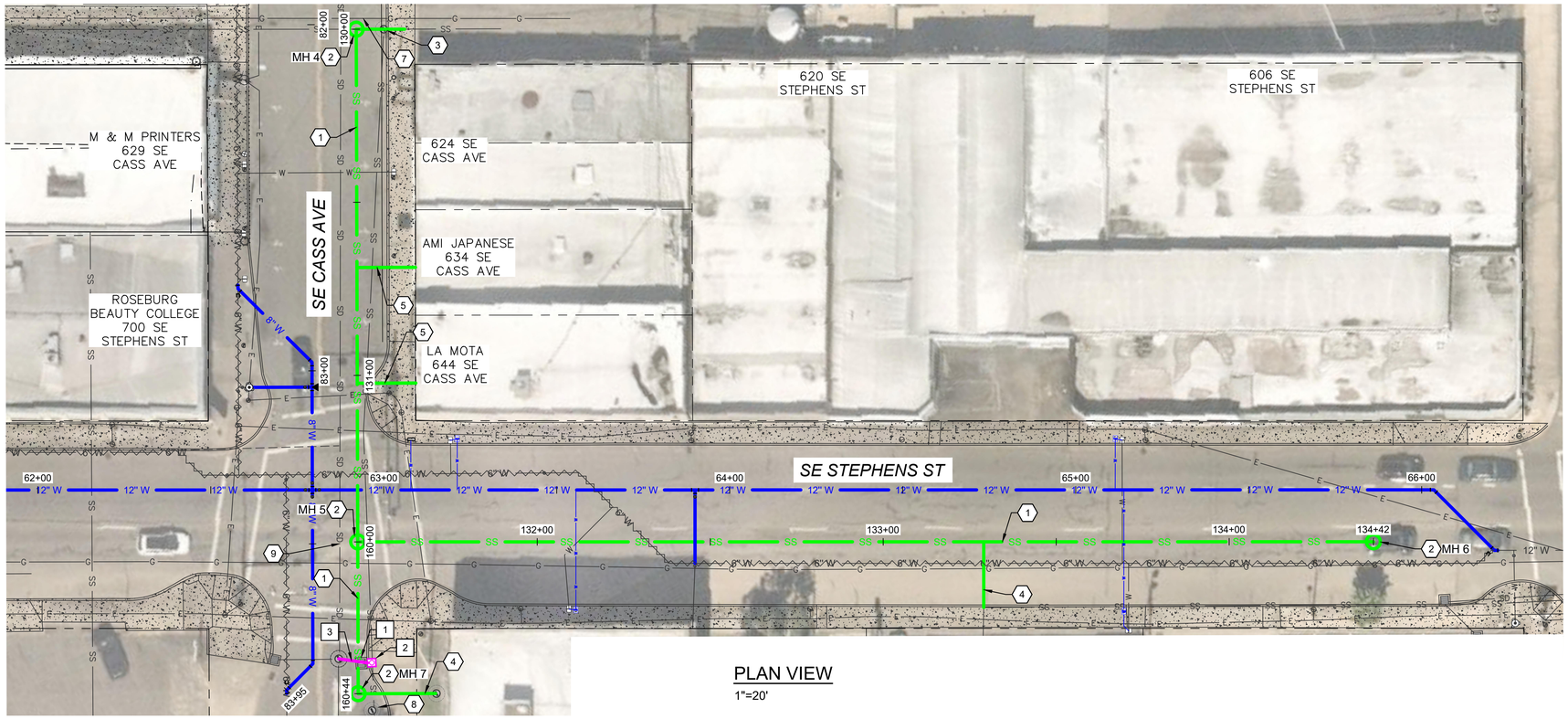
CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

STEPHENS ST SEWER
STA 120+00 TO STA 123+91

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO. C-10

15 OF 27



PLAN VIEW
1"=20'

PROFILE VIEW
H: 1"=20'
V: 1" = 5'

SANITARY SEWER KEYED NOTES

1. INSTALL 8" SEWER MAIN PER RUSA STANDARD DETAIL 445-100.
   SEE PROFILE FOR DETAILS.
2. INSTALL SANITARY SEWER MANHOLE PER RUSA STANDARD DETAIL 470-100, 470-101, 470-150.
   SEE PROFILE FOR DETAILS.
3. REMOVE EXISTING SANITARY MANHOLE PER DETAIL 490-100.
4. INSTALL 4" PVC SANITARY SERVICE LATERAL.
5. INSTALL 6" PVC SANITARY SERVICE LATERAL.
7. COORDINATE WITH AVISTA TO ADJUST LOCATION OF GAS LINE PRIOR TO INSTALLATION OF ADJACENT MANHOLE.
8. ABANDON EXISTING SANITARY SEWER MANHOLE.
9. CONTRACTOR TO SUBMIT UTILITY PROTECTION PLAN FOR CONSTRUCTION NEAR EXISTING STORM MAIN TO RUSA, PRIOR TO START OF SEWER MAIN CONSTRUCTION.

STORM SEWER KEYED NOTES

1. REMOVE EXISTING CATCH BASIN.
2. INSTALL NEW CURB INLET. SEE ODOT STD. DWGS. RD371 AND RD372.
3. INSTALL NEW 12" CONCRETE STORM SEWER PIPE. CONNECT TO EXISTING MANHOLE:
   RIM: 483.46
   IE IN (NE) 12" 478.18
   IE IN (SE) 12" 477.78
   IE IN (SW) 12" 478.09
   IE IN (NW) 12" 477.43

N

0 20 40
SCALE OF FEET
SCALE: 1"=20'

MH 5
STA:131+48.11
RIM:482.71
IE IN (NE) 8" 471.43
IE IN (SE) 8" 471.53
IE OUT (NW) 8" 471.33

NO.	DATE	BY	REVISION

SCALE	
PLAN	AS SHOWN
PROFILE	HORIZ.
	VERT.
ONE INCH (REF)	

DESIGNED:	P. MILLER
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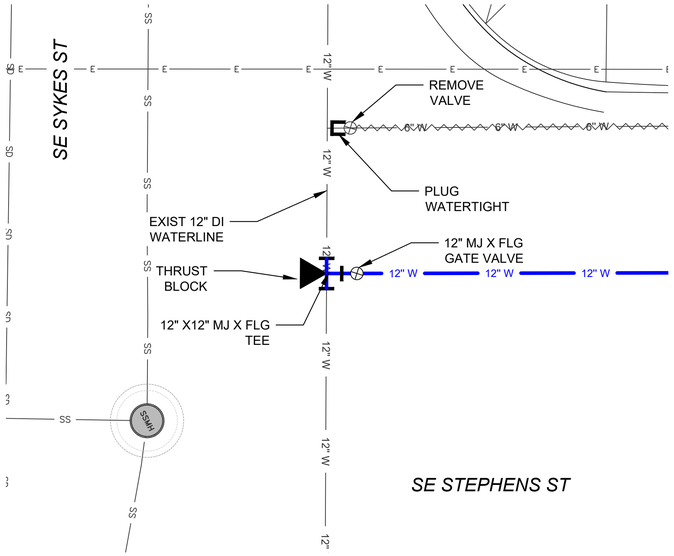
CITY PROJECT MANAGER
DARYN ANDERSON

STEPHENS ST SEWER
STA 130+00 TO STA 134+42 AND STA 160+00 TO STA 160+44

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

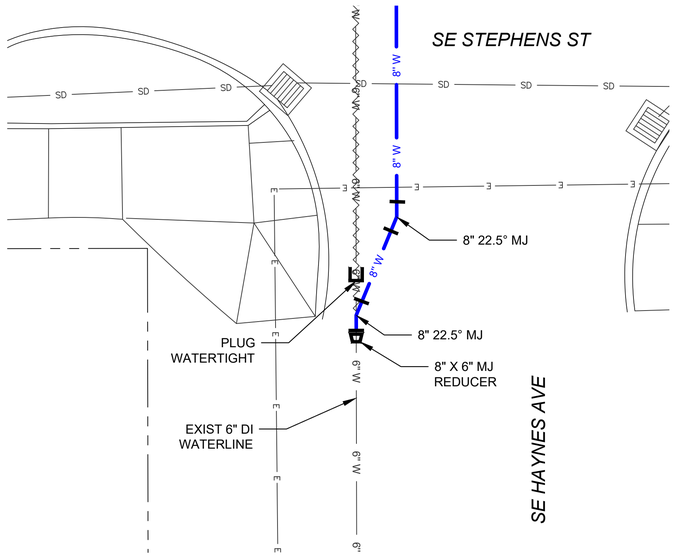
SHEET NO.
C-11
16 OF 27



STEPHENS STREET/SYKES STREET - CONNECTION DETAIL

SCALE: 1' = 5"

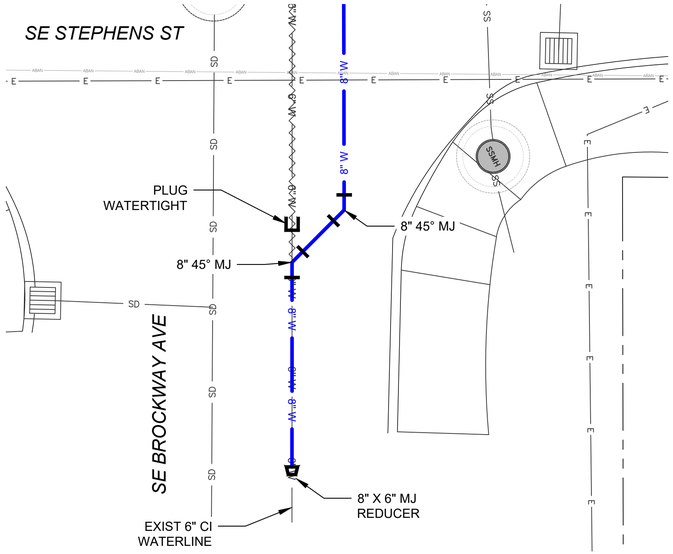
1 / D–01



STEPHENS STREET/HAYNES AVE - CONNECTION DETAIL

SCALE: 1' = 5"

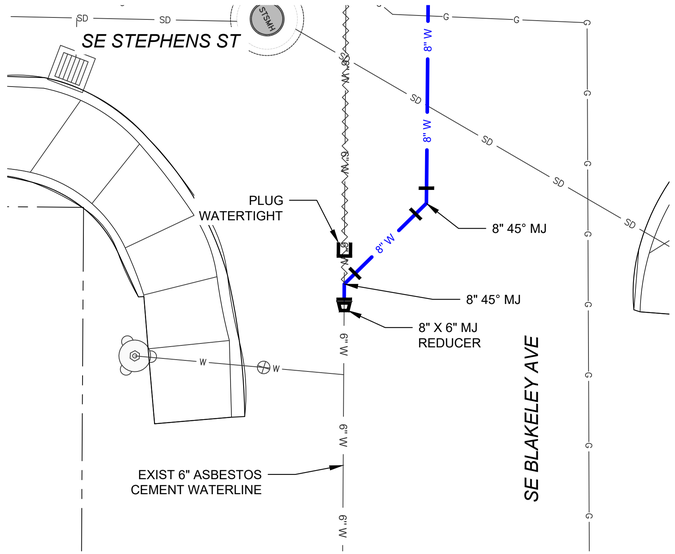
2 / D–01



STEPHENS STREET/BROCKWAY AVE - CONNECTION DETAIL

SCALE: 1' = 5"

3 / D–01



STEPHENS STREET/BLAKELEY AVE - CONNECTION DETAIL

SCALE: 1' = 5"

4 / D–01

0 2.5 5

SCALE OF FEET
SCALE: 1"=5'

NO.	DATE	BY	REVISION

SCALE	
PLAN	AS SHOWN
PROFILE	HORIZ.
	VERT.
ONE INCH (REF)	

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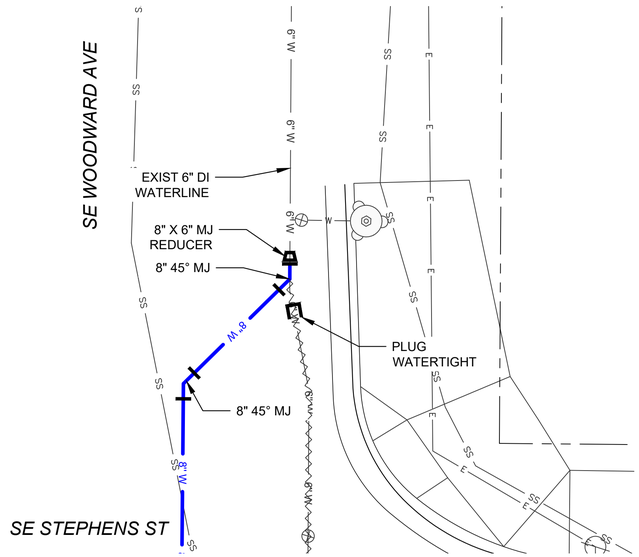
CITY PROJECT MANAGER
DARYN ANDERSON

WATERLINES CONNECTION DETAILS

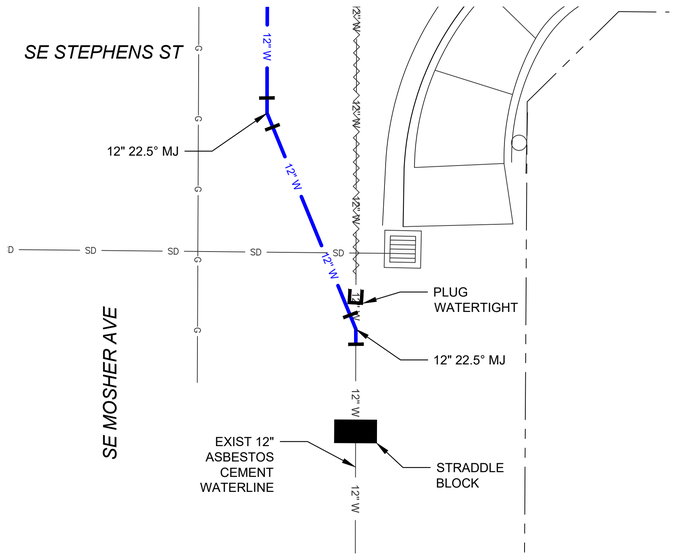
SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO.
D-01

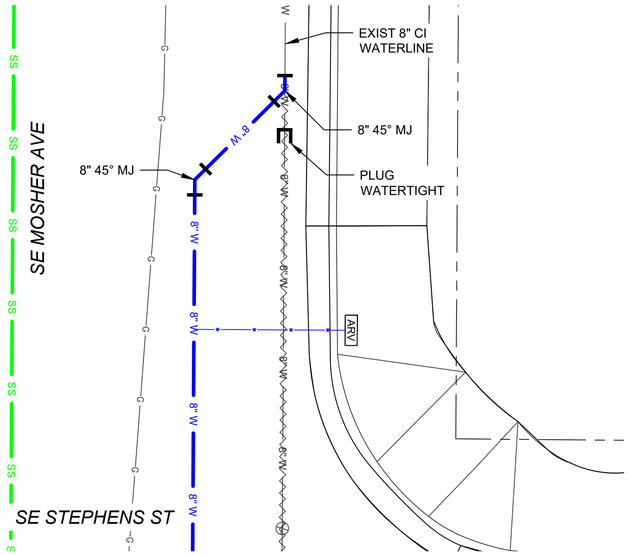
17 OF 27



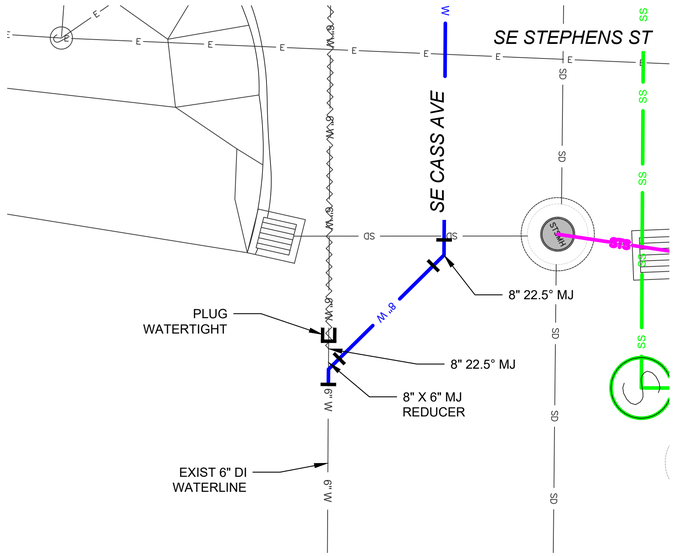
STEPHENS STREET/WOODWARD AVE - CONNECTION DETAIL (1 / D-2)
SCALE: 1' = 5"



STEPHENS STREET/MOSHER AVE - EAST CONNECTION DETAIL (2 / D-02)
SCALE: 1' = 5"



STEPHENS STREET/MOSHER AVE - WEST CONNECTION DETAIL (3 / D-02)
SCALE: 1' = 5"



STEPHENS STREET/CASS AVE - EAST CONNECTION DETAIL (4 / D-02)
SCALE: 1' = 5"

0 2.5 5
SCALE OF FEET
SCALE: 1"=5'

NO.	DATE	BY	REVISION

SCALE	
PLAN	AS SHOWN
PROFILE	HORIZ.
	VERT.
ONE INCH (REF)	

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DRAWN: L. RYAN
CHECKED: R. VOORHIES
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REGISTERED PROFESSIONAL ENGINEER — 72533PE — OREGON — JAN 8, 2008 — RAWLEY D. VOORHIES — EXPIRES: 6/30/24

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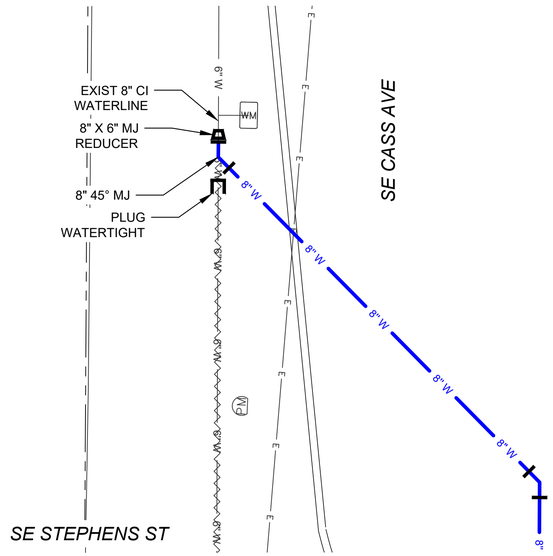
CITY PROJECT MANAGER
DARYN ANDERSON

WATERLINES CONNECTION DETAILS

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

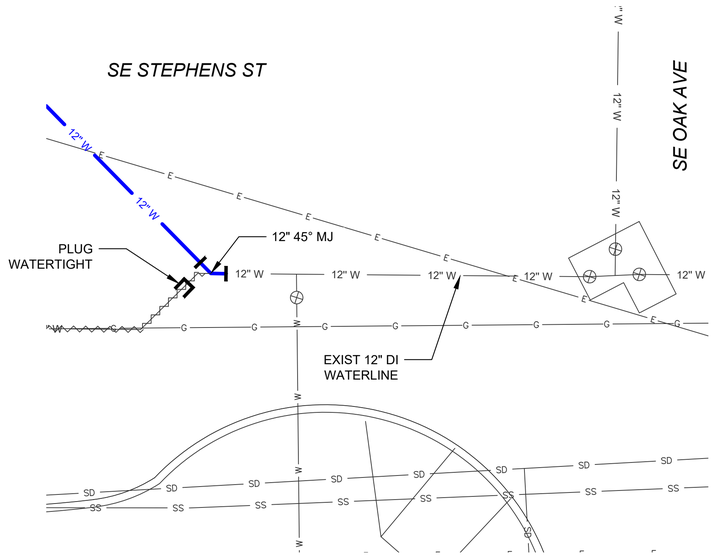
SHEET NO. D-02

18 OF 27



STEPHENS STREET/CASS AVE - WEST CONNECTION DETAIL
SCALE: 1' = 5"

1
D–03



STEPHENS STREET/OAK AVE - CONNECTION DETAIL
SCALE: 1' = 5"

2
D–03

N

0 2.5 5
SCALE OF FEET
SCALE: 1"=5'

NO.	DATE	BY	REVISION

SCALE	
PLAN	AS SHOWN
PROFILE	HORIZ.
	VERT.
ONE INCH (REF)	

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WATERLINES CONNECTION DETAILS

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO.
D-03

19 OF 27

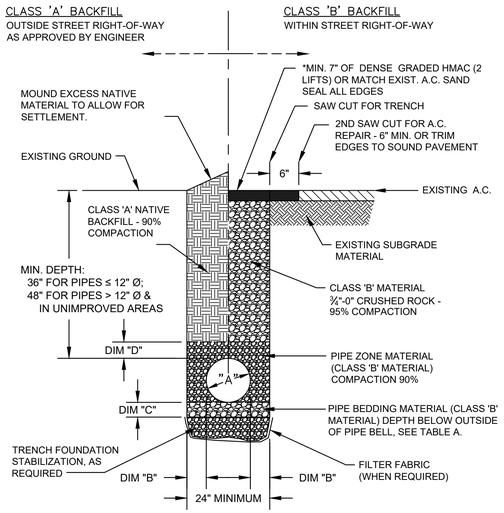


TABLE A			
"A" (IN)	"B" (IN)	"C" (IN)	"D" (IN)
2	11	4	8
4	10	4	8
6	9	4	8
8	8	6	10
12	8	6	10

NOTES:
1. "A" = NOMINAL PIPE DIAMETER.
2. RESTORE LANDSCAPE TO PRE-EXISTING CONDITIONS OR BETTER.

*PAVEMENT THICKNESS UP TO 23" ON SE STEPHENS STREET.

TYPICAL WATER LINE TRENCH BACKFILL
SCALE: NTS — 1 / D–04

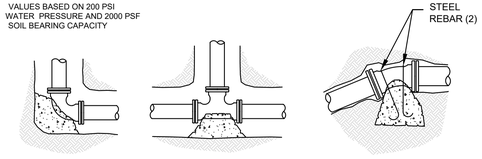
(HORIZONTAL)
BEARING AREA OF THRUST BLOCKS IN SQ FT

FITTING SIZE	TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1.3	1.8	1.0	1.0	1.0
6	2.8	4.0	2.2	1.1	1.0
8	5.0	7.1	3.8	2.0	1.0
12	11.3	16.0	8.7	4.4	2.2
16	20.1	28.4	15.4	7.8	3.9
20	31.1	44.4	24.0	12.3	6.2
24	45.2	64.0	34.6	17.7	8.9

VOLUME OF THRUST BLOCK IN CU YDS (VERTICAL)

FITTING SIZE	BEND ANGLE		
	45°	22.5°	11.25°
4	1.1	0.4	0.2
6	2.7	1.0	0.4
8	4.0	1.5	0.6
12	8.5	3.2	1.3
16	14.8	5.6	2.3

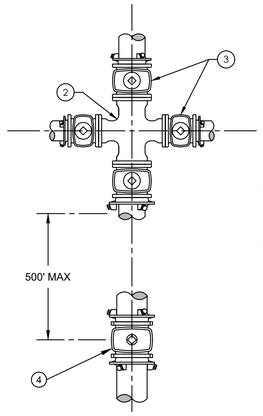
VALUES BASED ON 200 PSI WATER PRESSURE AND 2000 PSF SOIL BEARING CAPACITY

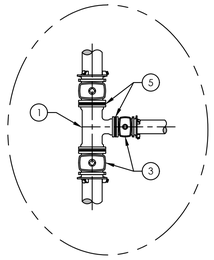


FITTING SIZE	REBAR SIZE	EMBEDMENT
4"-12"	#6	30"
14"-16"	#8	36"

NOTES:
1. ALL PIPE FITTING TEES, BENDS, AND DEAD ENDS SHALL BE RESTRAINED BY CONCRETE THRUST BLOCKING OR MECHANICAL PIPE JOINT RESTRAINTS.
2. CONCRETE THRUST BLOCKING OR STRADDLE BLOCKS SHALL BE USED ONLY ON EXISTING PIPES WITH NO MECHANICAL RESTRAINTS OR AT LOCATIONS WHERE MECHANICAL PIPE JOINT RESTRAINTS ARE NOT FEASIBLE. PRIOR APPROVAL BY WATER OPERATIONS IS REQUIRED.
3. ALL CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.
4. ALL CONCRETE SHALL BE CLASS 3000.
5. INSTALL MINIMUM 8–MIL TOTAL THICKNESS POLYETHYLENE SHEET AROUND FITTING. SECURE SHEET ENDS TO PREVENT INFILTRATION OF DIRT BETWEEN SHEET AND PIPE FITTING PRIOR TO POURING CONCRETE.
6. PROTECT MECHANICAL JOINT FOLLOWERS AND BOLTS FROM CONCRETE WITH TEMPORARY FORMS AND POLYETHYLENE SHEETING – SEE NOTE 5.
7. ANY FIELD MIXING OF CONCRETE SHALL BE APPROVED BY WATER OPERATIONS.

THRUST BLOCKS
SCALE: NTS — 2 / D–04



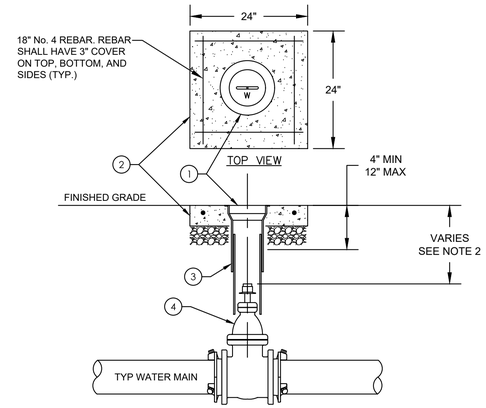


FOSTER ADAPTOR OPTION
SEE NOTE 6.

KEYNOTES:
1. FLG TEE
2. FLG CROSS
3. FLGXMJ GATE VALVE
4. MJ GATE VALVE
5. FOSTER ADAPTOR

NOTES:
1. VALVES SHALL BE SAME SIZE AS WATER MAIN BEING SUPPLIED.
2. MAXIMUM SPACING FOR VALVES: 500 FT.
3. VALVES SHALL NOT BE LOCATED IN CURB, GUTTER, OR SIDEWALK AREA.
4. SEE DETAIL 5, THIS SHEET, FOR VALVE BOX REQUIREMENTS.
5. ALL MECHANICAL JOINTS SHALL BE RESTRAINED.
6. FOSTER ADAPTOR OPTION MAY BE USED WITH PRIOR APPROVAL BY THE PUBLIC WORKS DEPARTMENT ENGINEER.

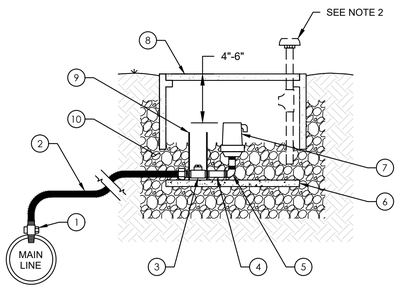
TYPICAL WATER VALVE LOCATION
SCALE: NTS — 3 / D–04



KEYNOTES:
1. OLYMPIC FOUNDRY RICH STYLE 931 WITH "W" CAST IN THE TOP SURFACE
2. UNPAVED AREAS ONLY: PROVIDE 24" SQUARE BY 5½" THICK CONCRETE PAD CENTERED ON VALVE BOX. INSTALL OVER 4" COMPACTED ¾"-0" CRUSHED ROCK
3. 6" SCH 40 OR D3034 PVC PIPE RISER WITH END CUT TO FIT OVER VALVE HOUSING, LENGTH AS NECESSARY
4. MJ GATE VALVE

NOTES:
1. CENTER VALVE BOX ON AXIS OF OPERATING NUT AND SET PLUMB WITH FINISHED GRADE.
2. OPERATOR EXTENSION REQUIRED WHEN VALVE NUT IS DEEPER THAN 3 FEET FROM FINISHED GRADE. SEE DETAIL 6, SHEET D-06.

TYPICAL STANDARD VALVE BOX SETTING
SCALE: NTS — 4 / D–04

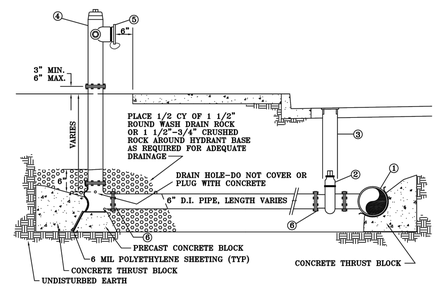


KEYNOTES:
1. 1" CORP STOP CCxCTS
2. 1" PE 3408 TUBING (SEE NOTE 2)
3. 1" CURB STOP VALVE FIPT x FIPT W/ CTSxMIPT ADAPTOR
4. 1" x6" BRASS NIPPLE
5. 1" BRASS 90° ELBOW W/ FIPT COUPLER
6. 18"x12"x2" CONCRETE PAD
7. 1" AIR RELEASE VALVE (ARV) A.R.I. MODEL S-050V
8. WATER METER BOX 13"x24"x12" W/ SOLID COVER. DFW OR EQUIV
9. 2"-6" PVC PIPE WITH SLOT FOR SERVICE LINE
10. DRAIN ROCK

NOTES:
1. A MINIMUM 1% UPWARD SLOPE SHALL BE MAINTAINED ON THE COPPER TUBING FROM THE WATER MAIN TO THE CARV.
2. AIR VENT PIPE REQUIRED IN AREAS OF HIGH GROUND WATER.

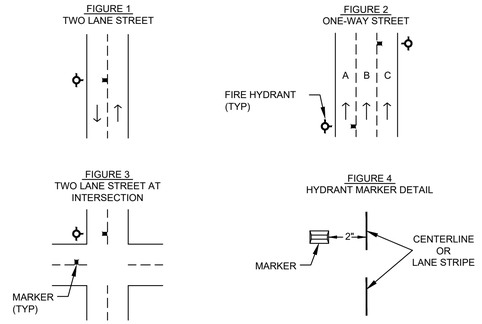
1 INCH AIR RELEASE VALVE (ARV)
SCALE: NTS — 5 / D–04

TYPICAL FIRE HYDRANT INSTALLATION (THRUST BLOCKED)



LEGEND
1. MAIN SIZE X 6" FLG. TEE
2. 6" FLG. X M.J. GATE VALVE
3. 6" VALVE BOX PIPE WITH LID
4. PRE ASSEMBLED FIRE HYDRANT
5. 5" PUMPER CONNECTION ADAPTER "STORZ" WITH CAPS
6. 6" MEGALUG ASSEMBLY KIT

CITY OF ROSEBURG	WATER DEPARTMENT	DATE: 10/13/1983 REV: 7/19/2005	STANDARD DWG. NO. 105



NOTES:
1. IF HYDRANT IS LOCATED WITHIN THE RADIUS OF AN INTERSECTION, PLACE A MARKER ON EACH ROADWAY IN THE CENTER LANES CLOSEST TO THE HYDRANT.
2. PLACE MARKER PERPENDICULAR (90°) TO HYDRANT.
3. CONTRACTOR TO SUPPLY BLUE REFLECTORS. CONTRACTOR SHALL SUPPLY MELT DOWN THERMOPLASTIC PADS IF 10 OR MORE ARE REQUIRED. WATER OPERATIONS SHALL SUPPLY IF FEWER THAN 10 ARE REQUIRED.

TYPICAL HYDRANT MARKER LOCATIONS
SCALE: NTS — 6 / D–04

NO.	DATE	BY	REVISION

SCALE	
PLAN	AS SHOWN
PROFILE	HORIZ.
	VERT.
ONE INCH (REF)	

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER — 72533PE — OREGON — JAN 8, 2008 — RAMLEY D. VOORHIES
EXPIRES: 6/30/24

CENTURY WEST ENGINEERING
5500 MEADOWS RD. #250 | LAKE OSWEGO, OR 97035
WWW.CENTURYWEST.COM | 503.419.2130

THE CITY OF ROSEBURG
900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

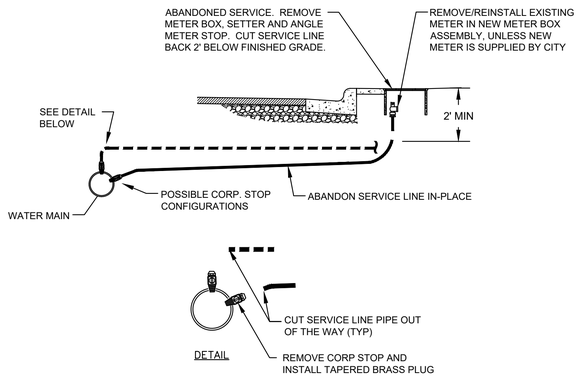
WATERLINE STANDARD DETAILS

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO. D-04

20 OF 27

Y:\Projects\Roseburg_City of\024-Pine & Stephens Water\CAD_WORKING\Roseburg - Stephens Water\STANDARD DETAILS.dwg 6/4/2024 3:42 PM Lauryn Ryan



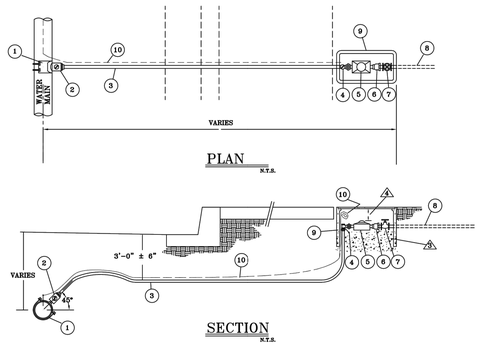
NOTE:

1. EXCAVATE A HOLE LARGE ENOUGH TO ACCESS CORP
2. TURN CORP OFF
3. SEVER COPPER AWAY FROM CORP STOP
4. REMOVE CORP STOP FROM MAIN AND INSTALL TAPERED BRASS PLUG
5. BACKFILL WITH 3/4 MINUS GRANULAR ROCK, FULL TRENCH DEPTH
6. ABANDONMENT TO BE DONE WITH THE WATER DEPT. INSPECTOR PRESENT

SERVICE ABANDONMENT
SCALE: NTS

1
D–05

TYPICAL SINGLE 5/8" x 3/4" METER INSTALLATION ASSEMBLY

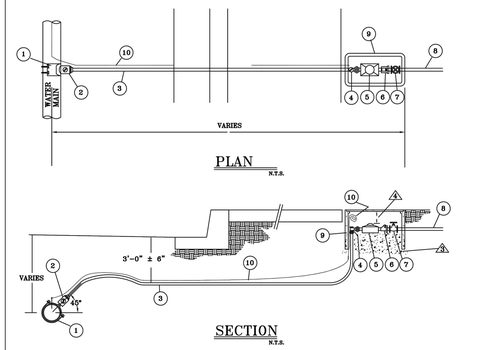


ITEM	SIZE	DESCRIPTION	TYPE ⚠1	QTY
1	AS REQ'D	SERVICE SADDLE	NYLON COATED ROMAC 1" CC X PIPE SIZE & MATERIAL ⚠2	1
2	1"	CORP STOP	FORD, F1001 (CC x PACK JOINT)	1
3	1"	SERVICE PIPE	200 p.s.i. POLYETHYLENE SIDR7 (PE 3408)	AS REQ'D
4	1" x 3/4"	ANGLE STOP	FORD, KV63-342W (PACK JOINT)	1
5	5/8"x3/4"	METER	EXISTING OR AS SUPPLIED BY CITY	1
6	3/4"	STRAIGHT CHECK VALVE	FORD, HSB-323 (METER NUT x MIPT)	1
7	3/4"	VALVE	BRONZE, HAND WHEEL, FIPT	1
8	—	CUSTOMER SERVICE	PER STATE PLUMBING CODE	—
9	—	METER BOX	DFW METER BOX 486WB AND LID 486C	1
10	NO. 12	TONE WIRE	ELECTRICAL THHN STRANDED COPPER WIRE, COIL 12" IN METER BOX.	AS REQ'D

NOTES:
⚠1 OR APPROVED EQUAL. SEE GENERAL SPECIFICATIONS.
⚠2 TYPE AS APPROVED BY MANUFACTURER FOR WATER MAIN TYPE & SIZE.
⚠3 PLACE 12" OF 3/4" –0" CRUSHED ROCK IN THE BOTTOM OF THE METER BOX HOLE.
⚠4 TOP OF METER SHALL BE 4" TO 6" BELOW BOTTOM OF LID.

CITY OF ROSEBURG	WATER DEPARTMENT	DATE: 10/7/1983 REV: 4/6/2001	STANDARD DWG. NO. 108

TYPICAL 1" METER INSTALLATION ASSEMBLY

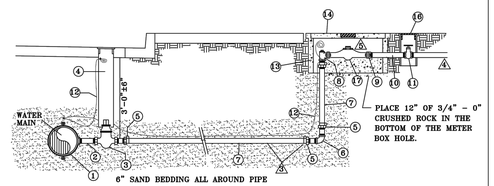


ITEM	SIZE	DESCRIPTION	TYPE ⚠1	QTY
1	AS REQ'D	SERVICE SADDLE	ROMAC 1", CC THD ⚠2	1
2	1"	CORP STOP	FORD, F1001 (CC x PACK JOINT)	1
3	1"	SERVICE PIPE, IPS	200 p.s.i. POLYETHYLENE SIDR7 (PE 3408)	AS REQ'D
4	1"	ANGLE STOP	FORD, KV63-444W (PACK JOINT)	1
5	1"	METER	EXISTING OR AS SUPPLIED BY CITY	1
6	1"	STRAIGHT CHECK VALVE	FORD, HSB-444 (METER NUT x MIPT)	1
7	1"	VALVE	BRONZE, HAND WHEEL, FIPT	1
8	—	CUSTOMER SERVICE	PER STATE PLUMBING CODE	—
9	—	METER BOX	DFW METER BOX 486WB AND LID 486C	1
10	NO. 12	TONE WIRE	ELECTRICAL THHN STRANDED COPPER WIRE, COIL 12" IN METER BOX.	AS REQ'D

NOTES:
⚠1 OR APPROVED EQUAL. SEE GENERAL SPECIFICATIONS.
⚠2 TYPE AS APPROVED BY MANUFACTURER FOR WATER MAIN TYPE & SIZE.
⚠3 PLACE 12" OF 3/4"–0" OF CRUSHED ROCK IN THE BOTTOM OF THE METER BOX HOLE.
⚠4 TOP OF METER SHALL BE 4" TO 6" BELOW BOTTOM OF LID.

CITY OF ROSEBURG	WATER DEPARTMENT	DATE: 2/9/1992 REV: 4/6/2001	STANDARD DWG. NO. 110

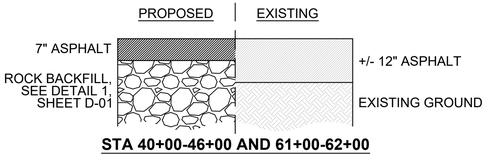
TYPICAL 1 1/2" OR 2" METER INSTALLATION ASSEMBLY



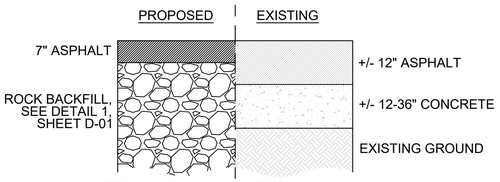
ITEM	QTY.	DESCRIPTION ⚠1
1	1	MAIN SIZE X 2" FIPT FORD FS202 SERVICE SADDLE.⚠2
2	1	2" DIAMETER X 4" BRASS NIPPLE.
3	1	2" FIPT IBBM GATE VALVE W/2" OPERATING NUT.
4	1	VALVE BOX AND LID (SEE STD. DWG. NO. 103).
5	3	FORD C86-77 (CL 200 PE) 2" MIPT X 2" PE PJ ADAPTER.
6	1	2" FIPT 90° ELL, RED BRASS.
7	AS REQ'D	2" 200 psi PE SIDR7 (PE 3408) PIPE, (OD TO FIT CL 200 FITTINGS).
8	1	FORD FV63-777W ANGLE METER VALVE (CL 200 psi).
9	1	FORD 6F (1 1/2" METER) OR 7F (2" METER) METER FLANGE.
10	1	1 1/2" (1 1/2" METER) OR 2" (2" METER) X 12" BRASS NIPPLE.
11	1	1 1/2" (1 1/2" METER) OR 2" (2" METER) BRASS GATE VALVE.
12	AS REQ'D	NO. 12 THHN STRANDED COPPER TONE WIRE, BLUE INSULATION.
13	1	DFW METER BOX 1730C-12
14	1	DFW METER BOX LID D1730C
15	–	
16	1	CUSTOMER VALVE BOX AND LID.
17	1	EXISTING METER OR AS SUPPLIED BY CITY

⚠1 OR APPROVED EQUAL.
⚠2 TYPE AS APPROVED BY MANUFACTURER FOR WATER MAIN TYPE AND SIZE.
⚠3 FOR SETTINGS CLOSE TO MAIN, SUBSTITUTE BRASS PIPE FOR PE AND TWO ADAPTERS.
⚠4 CONNECT TO EXISTING CUSTOMER SERVICE LINE PER STATE PLUMBING CODE REQUIREMENTS.
⚠5 TOP OF METER SHALL BE 4" TO 6" BELOW BOTTOM OF LID AND CENTERED.

CITY OF ROSEBURG	WATER DEPARTMENT	DATE: 10/13/1983 REV: 4/6/2001	STANDARD DWG. NO. 111



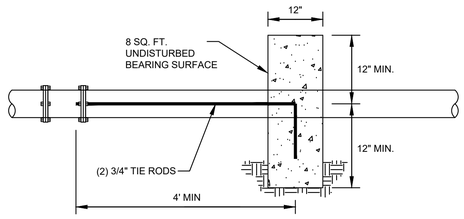
STA 40+00-46+00 AND 61+00-62+00



STA 46+00-61+00 AND 62+00-66+55

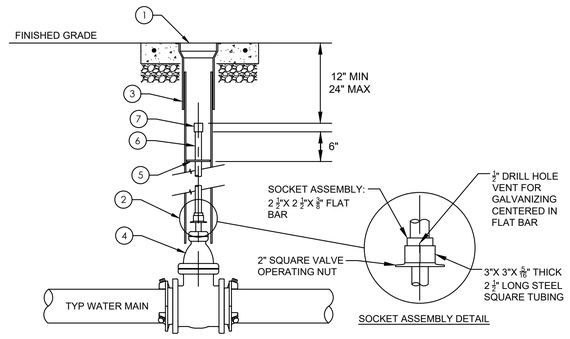
TYPICAL STEPHENS PAVEMENT SECTIONS
SCALE: NTS

2
D–05



STRADDLE BLOCKS
SCALE: NTS

3
D–05

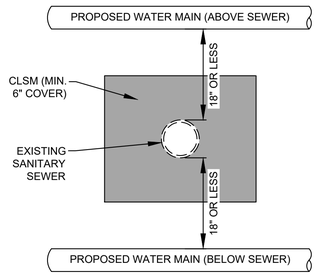


KEYNOTES :
1. VALVE BOX AND COVER ASSEMBLY PER DETAIL 5, SHEET D-01
2. SOCKET ASSEMBLY
3. 6" SCH 40 OR D3034 PVC PIPE RISER WITH END CUT TO FIT OVER VALVE HOUSING, LENGTH AS NECESSARY
4. MJ GATE VALVE (BUTTERFLY VALVE SIMILAR, NOT SHOWN)
5. 7 1/2" DIA, 10 GAUGE OR 3/16" THICK STEEL PLATE ROCK GUARD
6. 1 1/2" DIA SCHEDULE 80 STEEL PIPE
7. 2" SQUARE SOLID NUT

NOTES :
1. FABRICATE ALL VALVE OPERATOR EXTENSION COMPONENTS FROM A36 STEEL, CENTER AND SQUARE ALONG THE AXIS OF THE STEEL PIPE. HOT-DIP GALVANIZE COMPLETED ASSEMBLY AFTER FABRICATION.
2. OPERATOR EXTENSION REQUIRED WHEN VALVE NUT IS DEEPER THAN 3 FEET FROM FINISHED GRADE.

VALVE OPERATOR EXTENSION ASSEMBLY
SCALE: NTS

4
D–05



NOTE:

ALL SANITARY SEWERS THAT CROSS A WATER MAIN WITH LESS THAN 18 INCHES OF VERTICAL CLEARANCE SHALL BE ENCHASED IN CLSM FOR A DISTANCE OF TEN (10) FEET FROM BOTH SIDES OF THE WATER MAIN.

SANITARY SEWER ENCASEMENT
SCALE: NTS

5
D–05

NO.	DATE	BY	REVISION

SCALE: PLAN AS SHOWN; PROFILE HORIZ. / VERT.; ONE INCH (REF)

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER — 72533PE — OREGON — JAN 8, 2008 — RAMLEY D. VOORHIES — EXPIRES: 6/30/24

CENTURY WEST ENGINEERING
5500 MEADOWS RD. #250 | LAKE OSWEGO, OR 97035
WWW.CENTURYWEST.COM | 503.419.2130

900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

WATERLINE AND SEWER LINE STANDARD DETAILS

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO. D-05

21 OF 27

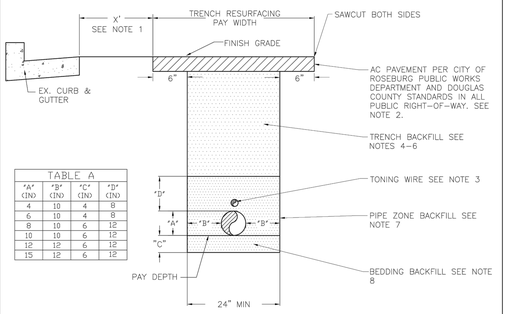


TABLE A			
'A' DIA	'B' DIA	'C' DIA	'D' DIA
4	10	4	8
6	10	4	8
8	10	6	12
10	10	6	12
12	12	6	12
15	12	6	12

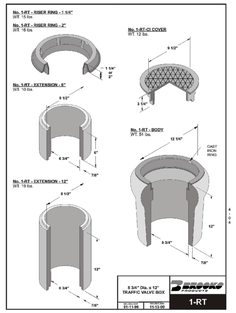
TYPICAL SEWER MAINLINE TRENCH

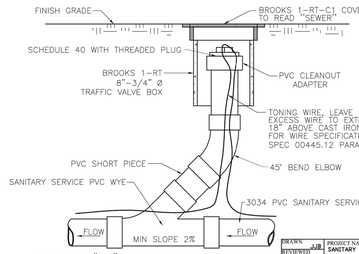
NOTES:

1. WHEN X IS LESS THAN 5', CONTRACTOR SHALL REMOVE AND REPLACE AC PAVEMENT TO CURB AND/OR GUTTER PER CITY OF ROSEBURG.
2. WHEN SEWER MAINLINE IS NOT LOCATED IN PUBLIC RIGHT-OF-WAY, AC SHALL BE PER APPROVED PLANS.
3. TONING WIRE TO BE TAPED TO PIPE EVERY 10'. FOR TONING WIRE SPECIFICATIONS, SEE ODOT STANDARD SPECIFICATION 00445.12 PARAGRAPH E.
4. TRENCH BACKFILL IN RIGHT-OF-WAY SHALL BE CLASS "E" CONTROLLED LOW STRENGTH MATERIAL (CLSM) OR CLASS "B" IF APPROVED.
5. WHEN SEWER LINE IS IN UNPAVED AREAS OUTSIDE OF RIGHT-OF-WAY, TRENCH BACKFILL MATERIAL SHALL BE CLASS "A".
6. WHEN SEWER LINE IS IN PAVED AREAS OUTSIDE OF THE RIGHT-OF-WAY, TRENCH BACKFILL MATERIAL SHALL BE CLASS "B".
7. PIPE ZONE BACKFILL SHALL BE CLASS "B" 3/4"-0" UNLESS OTHERWISE APPROVED.
8. BEDDING MATERIAL SHALL BE CLASS "B" 3/4"-0" UNLESS OTHERWISE APPROVED.

BACKFILL MATERIAL CLASSES PER 2015 ODOT STANDARD SPECIFICATIONS 00405.14

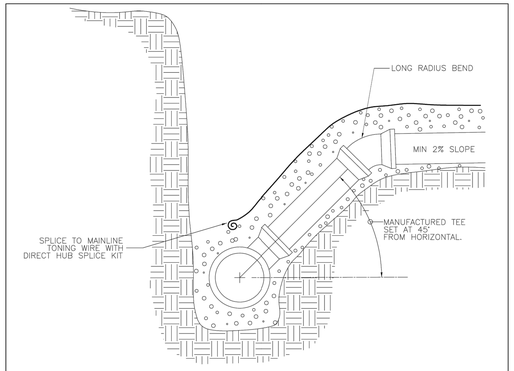
DRAWN: JJB	PROJECT NAME: SANITARY SEWER STANDARDS		
REVIEWED: RWK	TITLE: TYPICAL MAINLINE TRENCH		
APPROVED: JVB			
REVISION DATE:	ROSEBURG URBAN SANITARY AUTHORITY	SCALE: NTS	SHEET NO: 445-100
6/18/2020	900 SE DOUGLAS DR.		
6/19/2019	P.O. BOX 1130		
6/10/2019	ROSEBURG OR, 97470		
	PHONE: (541)673-3331		





STANDARD 4"-6" BUILDING SEWER CLEANOUT

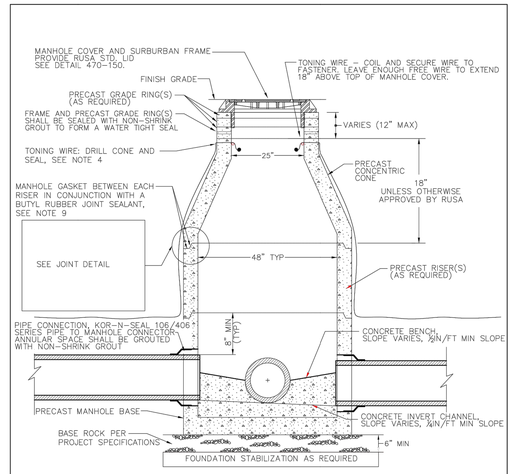
DRAWN: JJB	PROJECT NAME: SANITARY SEWER STANDARDS		
REVIEWED: RWK	TITLE: CLEANOUT		
APPROVED: JVB			
REVISION DATE:	ROSEBURG URBAN SANITARY AUTHORITY	SCALE: NTS	SHEET NO: 445-120
6/19/2019	900 SE DOUGLAS DR.		
12/18/2018	P.O. BOX 1130		
12/17/2018	ROSEBURG OR, 97470		
	PHONE: (541)673-3331		



DEEP TRENCH BUILDING SEWER (DEPTH GREATER THAN 6')

NOTES:
1. PIPE AND FITTINGS SHALL BE COMPATIBLE. ONLY MANUFACTURED FITTINGS SHALL BE USED.
2. TYPICAL MINIMUM DEPTH OF BUILDING SEWER AT RIGHT OF WAY OR EASEMENT LINE SHALL BE 4'.
3. MARKER POSTS AND BLOCKING SHALL BE TREATED WOOD. POST SHALL BE AN 8 FOOT LONG 2" X 4" FIR. POST TO EXTEND 12" MIN ABOVE FINISH GRADE AND EXPOSED AREA SHALL BE PAINTED GREEN. SEE RUSA STD DWG 445-130 FOR DETAILS.
4. INSTALL CLEAN OUT AT OR NEAR RIGHT-OF-WAY LINE. SEE RUSA STD DWG 445-130 FOR DETAILS.
5. FOR BEDDING AND BACKFILL SEE RUSA STD DWG 445-110.
6. MANUFACTURED TEE TO BE SET AT 45° FROM HORIZONTAL.
7. FOR TONING WIRE SPECIFICATIONS SEE ODOT STANDARD SPECIFICATION 00445.11 PARAGRAPH E.

DRAWN: JJB	PROJECT NAME: SANITARY SEWER STANDARDS		
REVIEWED: RWK	TITLE: DEEP TRENCH BUILDING SEWER		
APPROVED: JVB			
REVISION DATE:	ROSEBURG URBAN SANITARY AUTHORITY	SCALE: NTS	SHEET NO: 445-140
6/19/2019	900 SE DOUGLAS DR.		
5/24/2019	P.O. BOX 1130		
3/13/2019	ROSEBURG OR, 97470		
	PHONE: (541)673-3331		

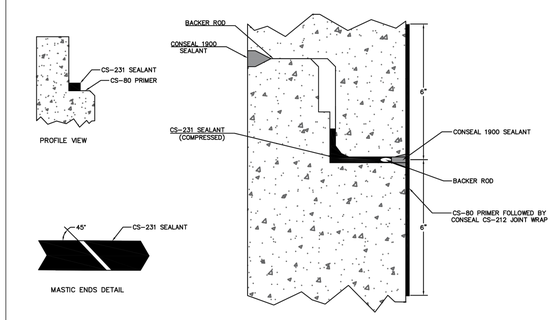


STANDARD SANITARY SEWER MANHOLE

NOTES:
1. ALL PRECAST PRODUCTS SHALL CONFORM TO REQUIREMENTS OF ASTM C478, OR APPROVED EQUAL.
2. STANDARD PRECAST MANHOLE SECTION DIAMETER SHALL BE 48". OTHER DIAMETER MANHOLES ALLOWED ONLY WITH RUSA'S APPROVAL.
3. INVERT CHANNELS SHALL BE FACTORY INSTALLED AND CONSTRUCTED TO PROVIDE SMOOTH SLOPES AND RADII TO OUTLET PIPE.
4. ALL CONNECTING PIPES SHALL HAVE A TONING WIRE, OR APPROVED ALTERNATE. FOR TONING WIRE SPECIFICATIONS SEE ODOT STANDARD SPECIFICATION 00445.12 PARAGRAPH E.
5. LOCATION, ELEVATION, DIAMETER, SLOPE, AND NUMBER OF PIPES VARY, SEE PROJECT PLANS.
6. ALL NEW MANHOLES SHALL BE TESTED PER ASTM C1244-11.
7. ALL BUILDING SEWERS SHALL CONNECT THROUGH KOR-N-SEALS AND BE LAID AT A MIN SLOPE OF 1/4" PER FOOT UNLESS AUTHORIZED BY RUSA TO REDUCE THAT MINIMUM TO 1/8" PER FOOT.
8. TO INSTALL A BUILDING SEWER MORE THAN 24" ABOVE THE FLOW LINE A PIPED INSDIE DROP MUST BE APPROVED, SEE RUSA STD DWG 470-130.

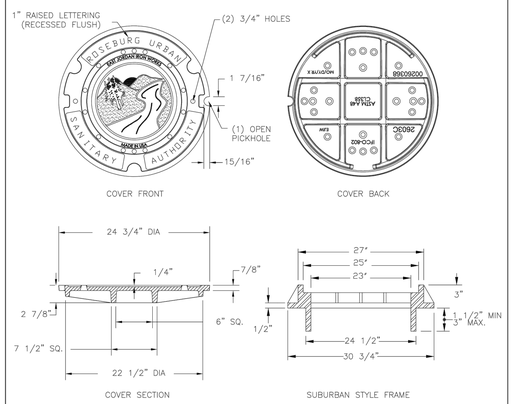
DRAWN: JJB	PROJECT NAME: SANITARY SEWER STANDARDS		
REVIEWED: RWK	TITLE: STANDARD MANHOLE		
APPROVED: JVB			
REVISION DATE:	ROSEBURG URBAN SANITARY AUTHORITY	SCALE: NTS	SHEET NO: 470-100
7/2/2020	900 SE DOUGLAS DR.		
8/19/2019	P.O. BOX 1130		
6/10/2019	ROSEBURG OR, 97470		
	PHONE: (541)673-3331		

MANHOLE JOINT SEALING METHODS DETAIL



FOR EACH CONCRETE SECTION:
1. CLEAN AND DRY THE JOINT MATING SURFACES.
2. APPLY CS-80 PRIMER TO THE LOWER FLAT SURFACE OF THE JOINT.
3. PLACE CS-231 SEALANT ON THE LOWER FLAT SURFACE AND AGAINST EDGE OF VERTICAL PORTION OF SPIGOT
4. CUT EACH END OF THE CS-231 SEALANT AT 45° AND KNEAD TOGETHER TO MAKE ONE CONTINUOUS PIECE.
5. STACK ALL OF THE CONCRETE SECTIONS. REMOVE ALIGNMENT BRACKETS AND HARDWARE.
6. INSTALL BACKER ROD IN EACH JOINT THAT HAS A GAP GREATER THAN 1".
7. PLACE A LARGE CONTINUOUS BEAD OF CONSEAL 1900 SEALANT INTO THE GAP OF EACH JOINT. ALLOW 15 MIN TO BECOME TACKY AND TOUGH.
8. APPLY CS-80 PRIMER ON THE OUTSIDE OF EACH CONCRETE SECTION, 6" ABOVE AND BELOW EACH JOINT.
9. APPLY A 12" WIDE LAYER OF CS-212 JOINT WRAP, 6" ABOVE AND BELOW EACH JOINT.
10. BACKFILL.

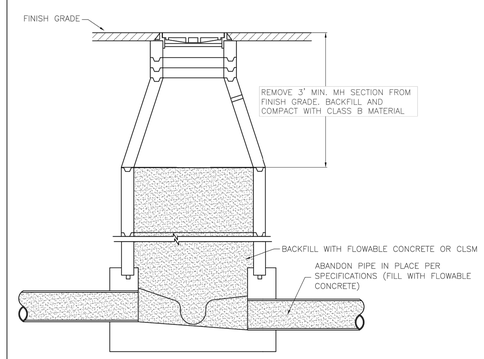
DRAWN: BMD	PROJECT NAME: SANITARY SEWER STANDARDS		
REVIEWED: XXX	TITLE: JOINT DETAIL		
APPROVED: XXX			
REVISION DATE:	ROSEBURG URBAN SANITARY AUTHORITY	SCALE: NTS	SHEET NO: 470-150
3/8/2024	900 SE DOUGLAS DR.		
	P.O. BOX 1130		
	ROSEBURG OR, 97470		
	PHONE: (541)673-3331		



STANDARD SEWER MANHOLE COVER

APPROVED MANUFACTURERS
EAST JORDAN IRONWORKS
FRAME – PRODUCT NO 260111
COVER – PRODUCT NO 260368
D&L FOUNDARY
FRAME – PRODUCT NO A-2017-61
COVER – PRODUCT NO A-2017-R2

DRAWN: JJB	PROJECT NAME: SANITARY SEWER STANDARDS		
REVIEWED: RWK	TITLE: FRAME & COVER		
APPROVED: JVB			
REVISION DATE:	ROSEBURG URBAN SANITARY AUTHORITY	SCALE: NTS	SHEET NO: 470-150
6/19/2019	900 SE DOUGLAS DR.		
3/13/2019	P.O. BOX 1130		
12/17/2018	ROSEBURG OR, 97470		
	PHONE: (541)673-3331		



TYPICAL MANHOLE (ABANDONED)

(OPTION: REMOVE MANHOLE AND BACKFILL/COMPACT WITH CLASS B MATERIAL)

DRAWN: JJB	PROJECT NAME: SANITARY SEWER STANDARDS		
REVIEWED: RWK	TITLE: ABANDONED MANHOLE		
APPROVED: JVB			
REVISION DATE:	ROSEBURG URBAN SANITARY AUTHORITY	SCALE: NTS	SHEET NO: 490-100
6/19/2019	900 SE DOUGLAS DR.		
12/17/2018	P.O. BOX 1130		
12/14/2018	ROSEBURG OR, 97470		
	PHONE: (541)673-3331		

NO.	DATE	BY	REVISION

SCALE
PLAN: AS SHOWN
PROFILE: HORIZ. / VERT.
ONE INCH (REF)

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER
72533PE
OREGON
JAN 8, 2008
RAMLEY D. VOORHIES
EXPIRES: 6/30/24

CENTURY WEST ENGINEERING
5500 MEADOWS RD. #250 | LAKE OSWEGO, OR 97035
WWW.CENTURYWEST.COM | 503.419.2130

THE CITY OF ROSEBURG

900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

SEWER LINE STANDARD DETAILS

SE STEPHENS WATER MAIN REPLACEMENT MAY 2024

SHEET NO.
D-06
22 OF 27

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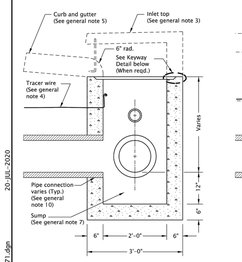
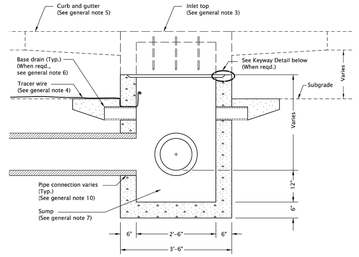
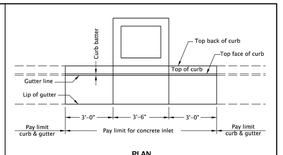
RD371.dgn 20-JUL-2020



SECTION B - B

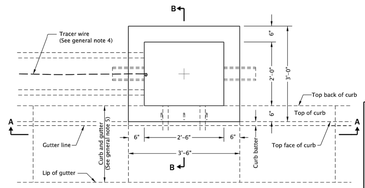


SECTION A - A



PLAN
PAY LIMIT

KEYWAY DETAIL



PLAN

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. All concrete shall be commercial grade concrete.
2. Inlet base may be cast-in-place or precast. Where precast inlet base is used as an alternate, a 4" compacted leveling bed of sand or ¾"-0 crushed aggregate shall be provided. All precast inlets shall conform to requirements of ASTM C913.
3. See Std. Dwgs. RD372 & RD373 for inlet top details.
4. See Std. Dwg. RD336 for tracer wire details, or approved alternate.
5. See Std. Dwgs. RD700 & RD701 for curb and gutter details.
6. See Std. Dwg. RD364 for base drain details.
7. Provide sump only where shown on plans, and allowed by jurisdiction. For sump details, see Std. Dwg. RD364.
8. Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
9. Max. pipe diameter varies with pipe material.
10. See Std. Dwg. RD339 for pipe to structure connections.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

CONCRETE INLET BASE
TYPE CG-3

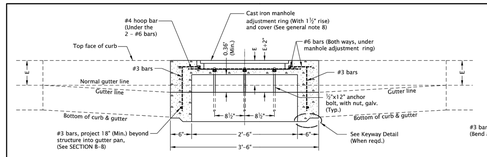
2024

DATE	REVISION DESCRIPTION

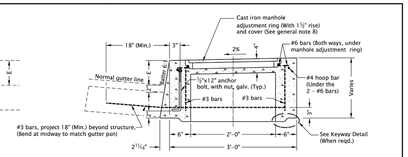
CAD BOOK NO. N/A | SDR DATE 25-JUL-2023 | **RD371**

Effective Date: June 1, 2024 – November 30, 2024

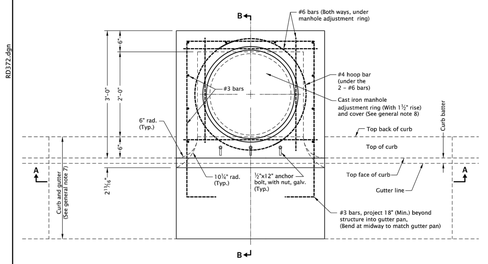
RD372.dgn 20-JUL-2020



SECTION A - A



SECTION B - B



PLAN

KEYWAY DETAIL

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. All concrete shall be commercial grade concrete.
2. Inlet top may be cast-in-place or precast. All precast inlets shall conform to requirements of ASTM C913.
3. All reinforcement shall be 2" clear of nearest face of conc., unless otherwise shown.
4. Vary anchor bolt length and reinforcing bar placement as required by curb exposure E (See note 7 below).
5. See Std. Dwg. RD371 for inlet base details.
6. See Std. Dwg. RD371 for inlet pay limit.
7. See Std. Dwgs. RD700 & RD701 for curb and gutter details.
8. See Std. Dwg. RD356 for cast iron manhole adjustment ring and cover.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

CONCRETE INLET TOP
OPTION 1, TYPE CG-3

2024

DATE	REVISION DESCRIPTION

CAD BOOK NO. N/A | SDR DATE 16-JAN-2019 | **RD372**

Effective Date: December 1, 2023 – May 31, 2024

NO.	DATE	BY	REVISION

SCALE	
PLAN	AS SHOWN
PROFILE	HORIZ.
	VERT.
ONE INCH (REF)	

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER
72533PE
OREGON
JAN 8, 2008
RAWLEY D. VOORHIES
EXPIRES: 6/30/24

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ROSEBURG, OR 97470

CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

STORM LINE STANDARD DETAILS

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO.
D-07
23 OF 27

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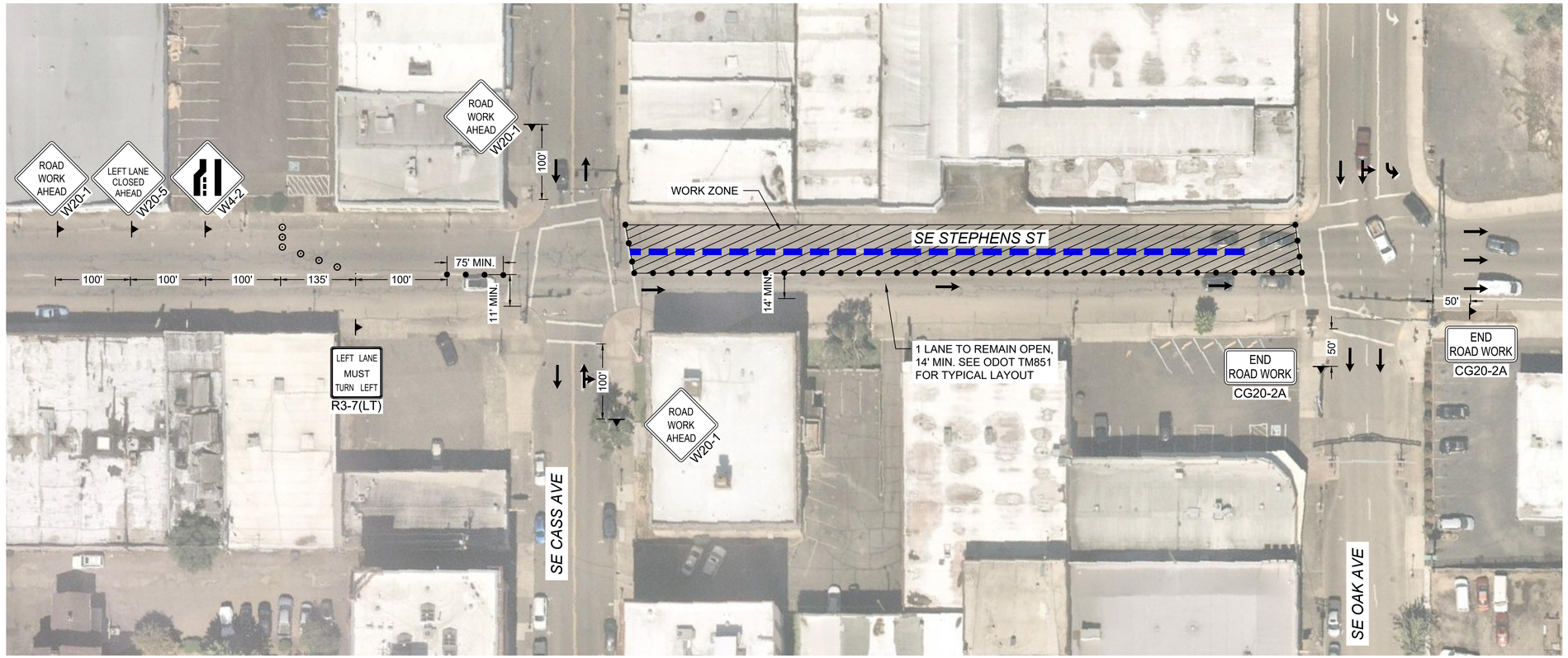
TEMPORARY TRAFFIC CONTROL PLAN
STEPHENS AND OAK



PLAN VIEW

SCALE: N.T.S.

NOTES:

- PROVIDE DRIVEWAY ACCESS AT ALL TIMES.
- PROVIDE A 5' GAP BETWEEN TUBULAR MARKERS AT ALL CROSSING LOCATIONS.
- SEE ODOT STD. DWGS. TM800, TM820, TM821, TM841, TM844 AND TM850 FOR STANDARD LANE CLOSURES, CROSSWALK CLOSURES AND TEMPORARY SIGN DETAILS NOT SHOWN ON PLANS.
- SEE ODOT STD. DWGS. TM810, TM841, TM844, AND TM850 FOR STANDARD TEMPORARY PAVEMENT MARKINGS, AND FOR INTERSECTION AND TRAVEL LANE WORK ZONE DETAILS.
- PLACE CHANNELIZING DEVICES AROUND INTERSECTION RADII AND CONSTRUCTION ACCESSES AT 10' SPACING.
- LANE CLOSURES ALLOWED DURING DAYTIME WORK IN ACCORDANCE TO SECTION 00220 AND THE GENERAL NOTES.
- MAINTAIN A MINIMUM OF ONE 14' TRAVEL LANE DURING CONSTRUCTION.
- SEE SPECIFICATION SECTION 220 FOR ADDITIONAL LANE CLOSURE AND DETOUR INFORMATION PERTAINING TO PAVING AND PAVEMENT RESTORATION WORK.
- INSTALL A "BICYCLES ON ROADWAY" (CW11-1) SIGN IN ADVANCE OF THE CLOSURE WHEN A BIKE LANE IS CLOSED OR WHEN THE SHOULDER IS CLOSED AND BIKES ARE EXPECTED.

LEGEND

- PORTABLE SIGN
- CONSTRUCTION TO BE COMPLETED
- TEMP. PLASTIC DRUMS ON 10' MAX SPACING
- 28" TUBULAR MARKERS ON 10' MAX SPACING
- UNDER CONSTRUCTION

DIMENSIONS SHOWN ON PLANS ARE NOT TO SCALE. SEE STANDARD DRAWINGS FOR SIGNING, SPACING, AND TAPER LENGTHS.

NO.	DATE	BY	REVISION

SCALE: PLAN AS SHOWN; PROFILE HORIZ. / VERT.; ONE INCH (REF)

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER 72533PE OREGON JAN 8, 2008 RAWLEY D. VOORHIES
EXPIRES: 6/30/24

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ROSEBURG, OR 97470

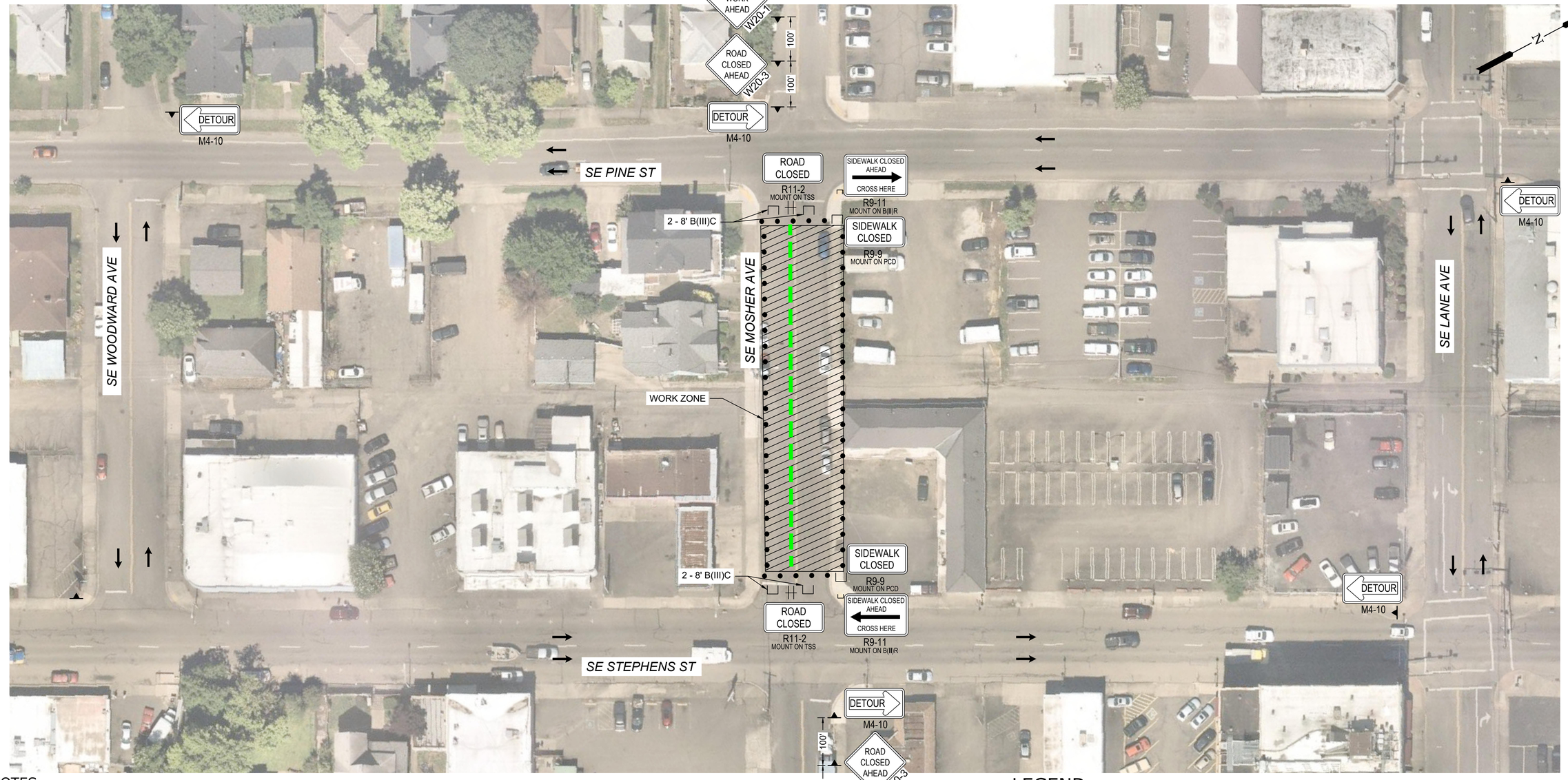
CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

TEMPORARY TRAFFIC CONTROL
STEPHENS AND OAK

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO. T-01

24 OF 27



PLAN VIEW
SCALE: N.T.S.

NOTES:

- PROVIDE MINIMUM 72 HOURS NOTICE OF STREET CLOSURE TO AFFECTED PROPERTY OWNERS.
- SEE ODOT STD. DWGS. TM800, TM820, TM821, TM841, TM844 AND TM850 FOR STANDARD LANE CLOSURES, CROSSWALK CLOSURES AND TEMPORARY SIGN DETAILS NOT SHOWN ON PLANS.
- ROADWAY CLOSURES ALLOWED DURING DAYTIME WORK IN ACCORDANCE TO SECTION 00220 AND THE GENERAL NOTES.
- SEE SPECIFICATION SECTION 220 FOR ADDITIONAL LANE CLOSURE AND DETOUR INFORMATION PERTAINING TO PAVING AND PAVEMENT RESTORATION WORK.

LEGEND

- PORTABLE SIGN
- CONSTRUCTION TO BE COMPLETED
- TEMP. PLASTIC DRUMS ON 10' MAX SPACING
- 28" TUBULAR MARKERS ON 10' MAX SPACING
- UNDER CONSTRUCTION

DIMENSIONS SHOWN ON PLANS ARE NOT TO SCALE. SEE STANDARD DRAWINGS FOR SIGNING, SPACING, AND TAPER LENGTHS.

NO.	DATE	BY	REVISION

SCALE
PLAN: AS SHOWN
PROFILE: HORIZ. / VERT.
ONE INCH (REF)

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER
72533PE
OREGON
JAN 8, 2008
RAMLEY D. VOORHIES
EXPIRES: 6/30/24

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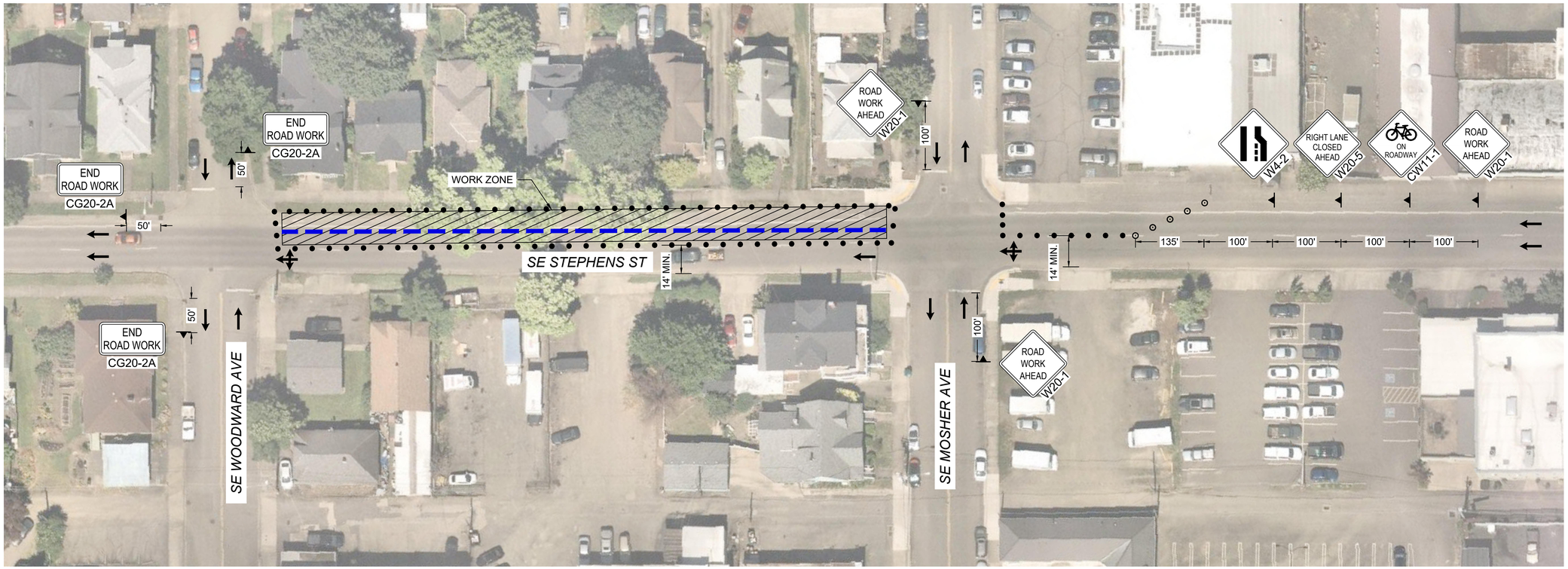
CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

TEMPORARY TRAFFIC CONTROL
TYPICAL SIDE STREET ROAD CLOSURE

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO.
T-02



PLAN VIEW

SCALE: N.T.S.

NOTES:

- PROVIDE DRIVEWAY ACCESS AT ALL TIMES.
- PROVIDE A 5' GAP BETWEEN TUBULAR MARKERS AT ALL CROSSING LOCATIONS.
- SEE ODOT STD. DWGS. TM800, TM820, TM821, TM841, TM844 AND TM850 FOR STANDARD LANE CLOSURES, CROSSWALK CLOSURES AND TEMPORARY SIGN DETAILS NOT SHOWN ON PLANS.
- SEE ODOT STD. DWGS. TM810, TM841, TM844, AND TM850 FOR STANDARD TEMPORARY PAVEMENT MARKINGS, AND FOR INTERSECTION AND TRAVEL LANE WORK ZONE DETAILS.
- PLACE CHANNELIZING DEVICES AROUND INTERSECTION RADII AND CONSTRUCTION ACCESSES AT 10' SPACING.
- LANE CLOSURES ALLOWED DURING DAYTIME WORK IN ACCORDANCE TO SECTION 00220 AND THE GENERAL NOTES.
- MAINTAIN A MINIMUM OF ONE 14' TRAVEL LANE DURING CONSTRUCTION.
- SEE SPECIFICATION SECTION 220 FOR ADDITIONAL LANE CLOSURE AND DETOUR INFORMATION PERTAINING TO PAVING AND PAVEMENT RESTORATION WORK.
- INSTALL A "BICYCLES ON ROADWAY" (CW11-1) SIGN IN ADVANCE OF THE CLOSURE WHEN A BIKE LANE IS CLOSED OR WHEN THE SHOULDER IS CLOSED AND BIKES ARE EXPECTED.

LEGEND

- PORTABLE SIGN
- CONSTRUCTION TO BE COMPLETED
- TEMP. PLASTIC DRUMS ON 10' MAX SPACING
- 28" TUBULAR MARKERS ON 10' MAX SPACING
- UNDER CONSTRUCTION

DIMENSIONS SHOWN ON PLANS ARE NOT TO SCALE. SEE STANDARD DRAWINGS FOR SIGNING, SPACING, AND TAPER LENGTHS.

NO.	DATE	BY	REVISION

SCALE: PLAN AS SHOWN; PROFILE HORIZ. / VERT.; ONE INCH (REF)

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER — 72533PE — OREGON — JAN 8, 2008 — RAWLEY D. VOORHIES
EXPIRES: 6/30/24

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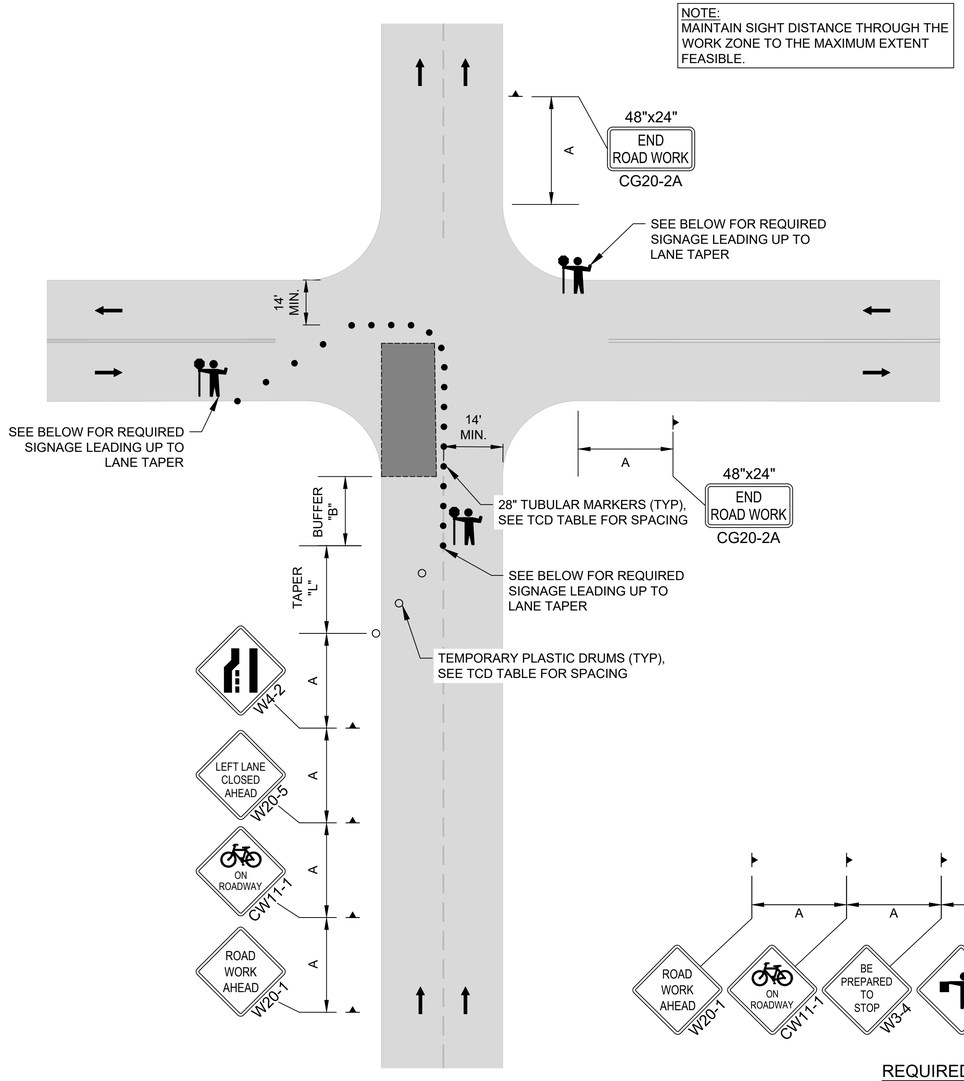
CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

TEMPORARY TRAFFIC CONTROL NON-INTERSECTION

SE STEPHENS WATER MAIN REPLACEMENT MAY 2024

SHEET NO. T-03

NOTE:
MAINTAIN SIGHT DISTANCE THROUGH THE WORK ZONE TO THE MAXIMUM EXTENT FEASIBLE.



REQUIRED SIGNAGE

MINIMUM LENGTHS TABLE

SPEED (MPH)	"L" VALUE FOR TAPERS (FT) W = LANE OR SHOULDER WIDTH BEING CLOSED OR SHIFTED			BUFFER "B" (FT)
	W ≤ 10	W = 12	W = 14	
25	105	125	145	75
30	150	180	210	100
35	205	245	285	125

* FOR LANE CLOSURES WHERE W < 10', USE "L" VALUE FOR W=10'.

GENERAL NOTES:

1. TO DETERMINE TAPER LENGTH "L" AND BUFFER LENGTH "B", USE THE "MINIMUM LENGTHS TABLE."
2. TO DETERMINE SIGN SPACING A, USE "TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE.
3. TUBULAR MARKERS MAY BE USED IN LANE CLOSURE TAPERS WHERE POSTED SPEED IS 40 MPH OR LESS.
4. PLACE CHANNELIZING DEVICES AROUND INTERSECTION RADII, BUSINESS ACCESSES AND DRIVEWAYS AT 10' SPACING.
5. TO BE ACCOMPANIED BY ODOT DWG. NOS. TM820, TM821 & TM840.
6. ARROWS SHOWN IN ROADWAY ARE DIRECTIONAL ARROWS TO INDICATE TRAFFIC MOVEMENTS.
7. ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE SHOWN. USE FLUORESCENT ORANGE SHEETING FOR THE BACKGROUND OF ALL TEMPORARY WARNING SIGNS.
8. DO NOT LOCATE SIGN SUPPORTS IN LOCATIONS DESIGNATED FOR BICYCLE OR PEDESTRIAN TRAFFIC.

TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE

SPEED (MPH)	"A" SIGN SPACING (FT)	MAX. CHANNELIZING DEVICE SPACING (FT)
20 - 30	100	20
35	350	20

1. PLACE TRAFFIC CONTROL DEVICES ON 10 FT SPACING FOR INTERSECTION AND ACCESS RADII.
2. WHEN NECESSARY, SIGN SPACING MAY BE ADJUSTED TO FIT SITE CONDITIONS. LIMIT SPACING ADJUSTMENTS TO 30% OF THE "A" DIMENSION FOR ALL SPEEDS.

NO.	DATE	BY	REVISION

SCALE
PLAN: AS SHOWN
PROFILE: HORIZ. / VERT.
ONE INCH (REF)

DESIGNED: P. MILLER
DRAWN: L. RYAN
CHECKED: R. VOORHIES
CWE PROJECT NO. 40193.024.01

REGISTERED PROFESSIONAL ENGINEER
72533PE
OREGON
JAN 8, 2008
RAWLEY D. VOORHIES
EXPIRES: 6/30/24

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900 SE DOUGLAS AVE.
ROSEBURG, OR 97470

CITY PROJECT #: 23WA12
CITY PROJECT MANAGER
DARYN ANDERSON

TEMPORARY TRAFFIC CONTROL INTERSECTION

SE STEPHENS WATER MAIN REPLACEMENT
MAY 2024

SHEET NO.
T-04
27 OF 27