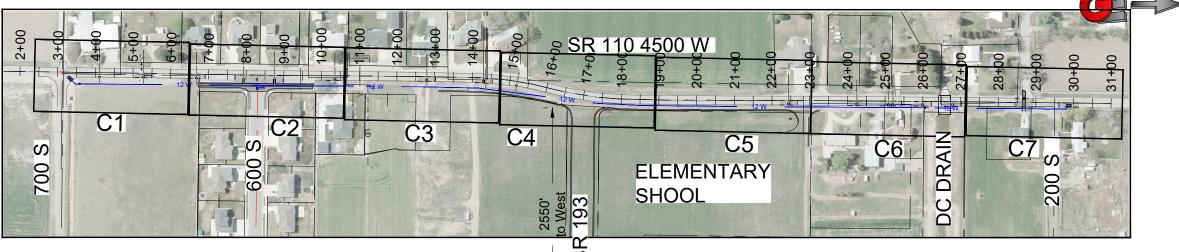
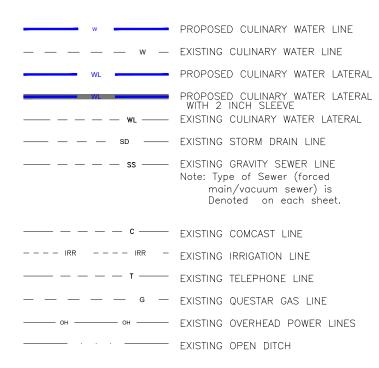
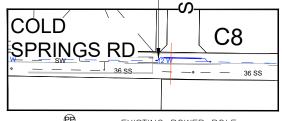
#162-4500W; 700S TO 200S

WEST POINT CITY, DAVIS COUNTY, UTAH



LEGEND





EXISTING POWER POLE

EXISTING WATER METER

EXISTING FIRE HYDRANT

PROPOSED FIRE HYDRANT

EXISTING WATER VALVE
PROPOSED WATER VALVE

2' X 4' STORM DRAIN CATCH BASIN

STORM DRAIN MANHOLE COVER
SEWER MANHOLE COVER

MB MAIL BOX

IRRIGATION BOX

MONUMENT

CONTRACTOR SHALL OBTAIN UDOT ENCROACHMENT PERMIT REGION 1 AND ADHERE TO UTAH RULE R930-7 UTILITY ACCOMMODATION. REFERENCE UDOT PROJECT NUMBER S-0193(26)0 PIN 19855



SHEET INDEX
A - COVER SHEET
B - GENERAL NOTES
C1 - C8 PLAN AND PROFILE SHEETS
D1 - D4 DETAIL SHEETS

GENERAL NOTES

- 1. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS SET FORTH BY THE ENGINEER, PLANNING, CODES AND SPECIFICATIONS AND APPLICABLE COUNTY, STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND SPECIFICATIONS, OR ANY APPLICABLE STANDARDS. THE HIGHER QUALITY STANDARD SHALL APPLY
- 2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND OR ELEVATION OF EXISTING UTILITIES. AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE DESIGNATED PUBLIC WORKS INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
- 4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE DISTRICT AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE
- 5. THE CONTRACTOR SHALL HAVE ONE (1) COPY OF APPROVED PLANS, AND ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS AND A COPY OF ANY PERMITS NEEDED FOR THE JOB, ON SITE AT ALL TIMES.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
- 7. IF DURING THE CONSTRUCTION PROCESS CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY
- 8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED AND RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT DRAWINGS ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE AND AVAILABLE TO THE DISTRICT INSPECTOR AT ALL TIMES
- 11. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES.
- 12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTORS SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.
- 13. ALL CONSTRUCTION WITHIN THE UDOT RIGHT-OF-WAY SHALL CONFORM TO THE MOST CURRENT UDOT STANDARD (INCLUDING SUPPLEMENTAL) DRAWINGS AND SPECIFICATIONS.
- 14. THE CONTRACTOR IS TO OBTAIN AN ENCROACHMENT PERMIT FROM THE APPLICABLE UDOT REGION PERMIT OFFICE PRIOR TO COMMENCING WORK WITHIN UDOT RIGHT-OF-WAY. WORKING HOUR LIMITATIONS WILL BE LISTED IN THE LIMITATIONS SECTION OF THE ENCROACHMENT PERMIT.
- 15. UDOT RESERVES THE RIGHT, AT ITS OPTION, TO INSTALL A RAISED MEDIAN ISLAND OR RESTRICT THE ACCESS TO A RIGHT-IN OR RIGHT-OUT AT ANY TIME.
- 16. OWNER, DEVELOPER, AND CONTRACTOR ARE RESPONSIBLE FOR ANY DAMAGES DIRECTLY OR INDIRECTLY WITHIN THE UDOT RIGHT-OF-WAY AS A RESULT OF DEVELOPMENT ACTIVITIES.
- 17. OWNER, DEVELOPER, AND/OR CONTRACTOR IS REQUIRED TO HIRE AN INDEPENDENT COMPANY FOR ALL TESTING WITHIN THE UDOT RIGHT-OF-WAY
- 18. ALL SIGNS INSTALLED ON THE UDOT RIGHT-OF-WAY MUST BE HIGH INTENSITY GRADE (TYPE XI SHEETING) WITH A B3 SLIP BASE. INSTALL ALL SIGNS PER UDOT SN SERIES STANDARD DRAWINGS.
- 19. COMPLY WITH THE REQUIREMENTS OF UTAH CODE 17-23-14 (DISTURBED CORNERS COUNTY SURVEYOR TO BE NOTIFIED -COORDINATION WITH CERTAIN STATE AGENCIES).

NOTICE TO CONTRACTOR

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS: OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF UTAH DEPARTMENT OF INDUSTRIAL RELATIONS CONSTRUCTION SAFETY ORDERS". THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONTRACTORS AND SUBCONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

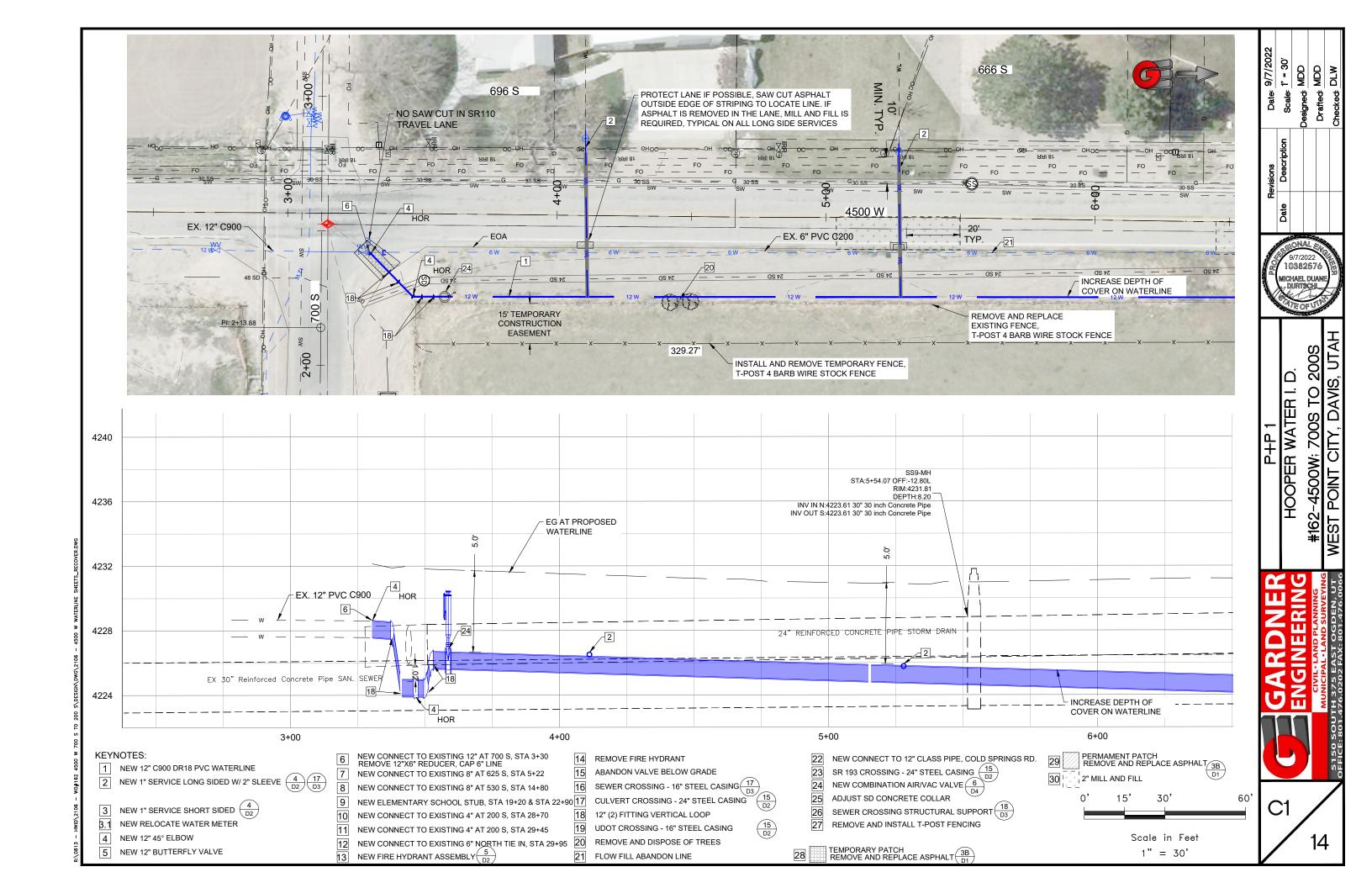
CONTRACTOR FURTHER AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB-SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

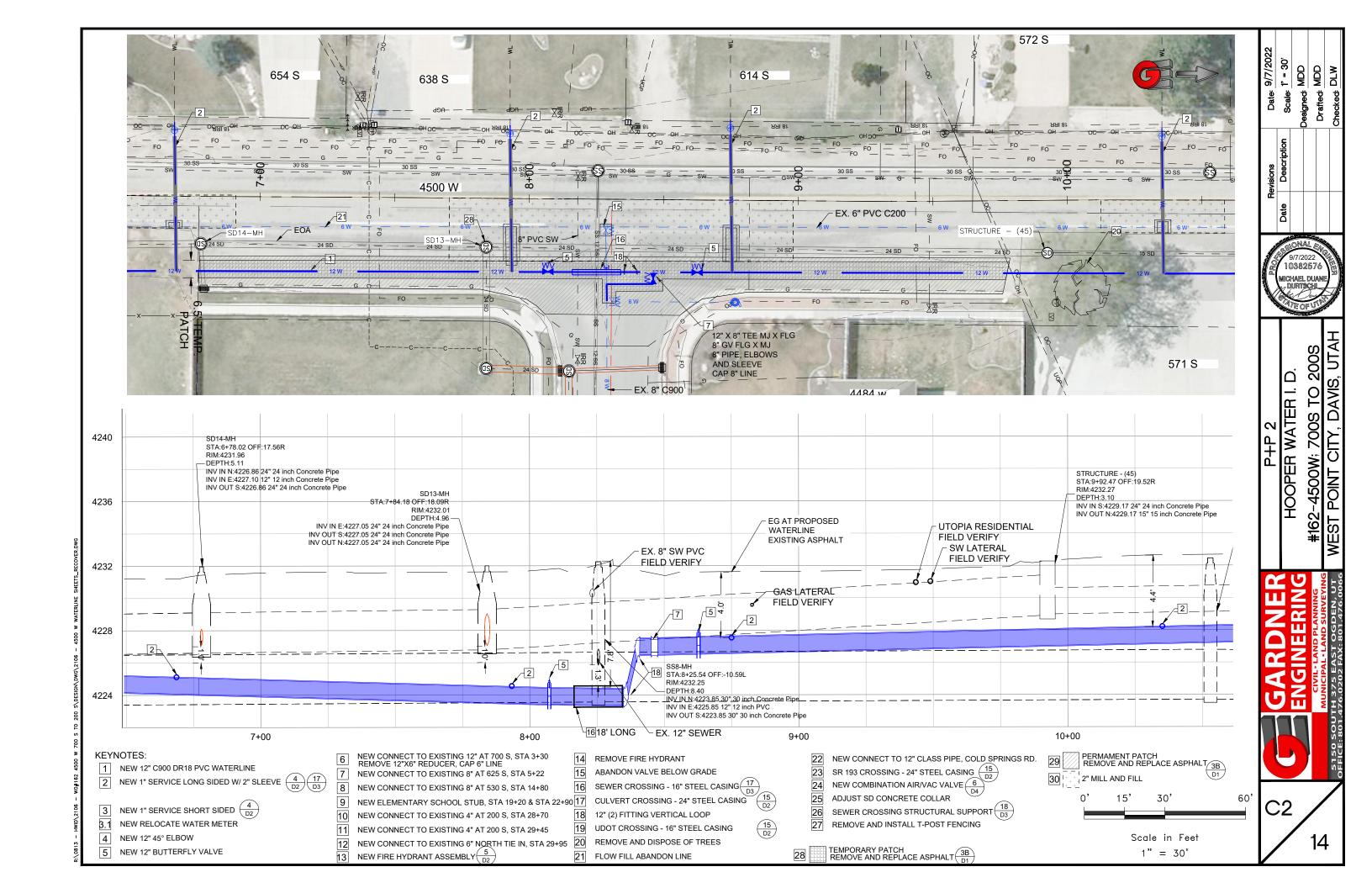
CULINARY WATER GENERAL NOTES

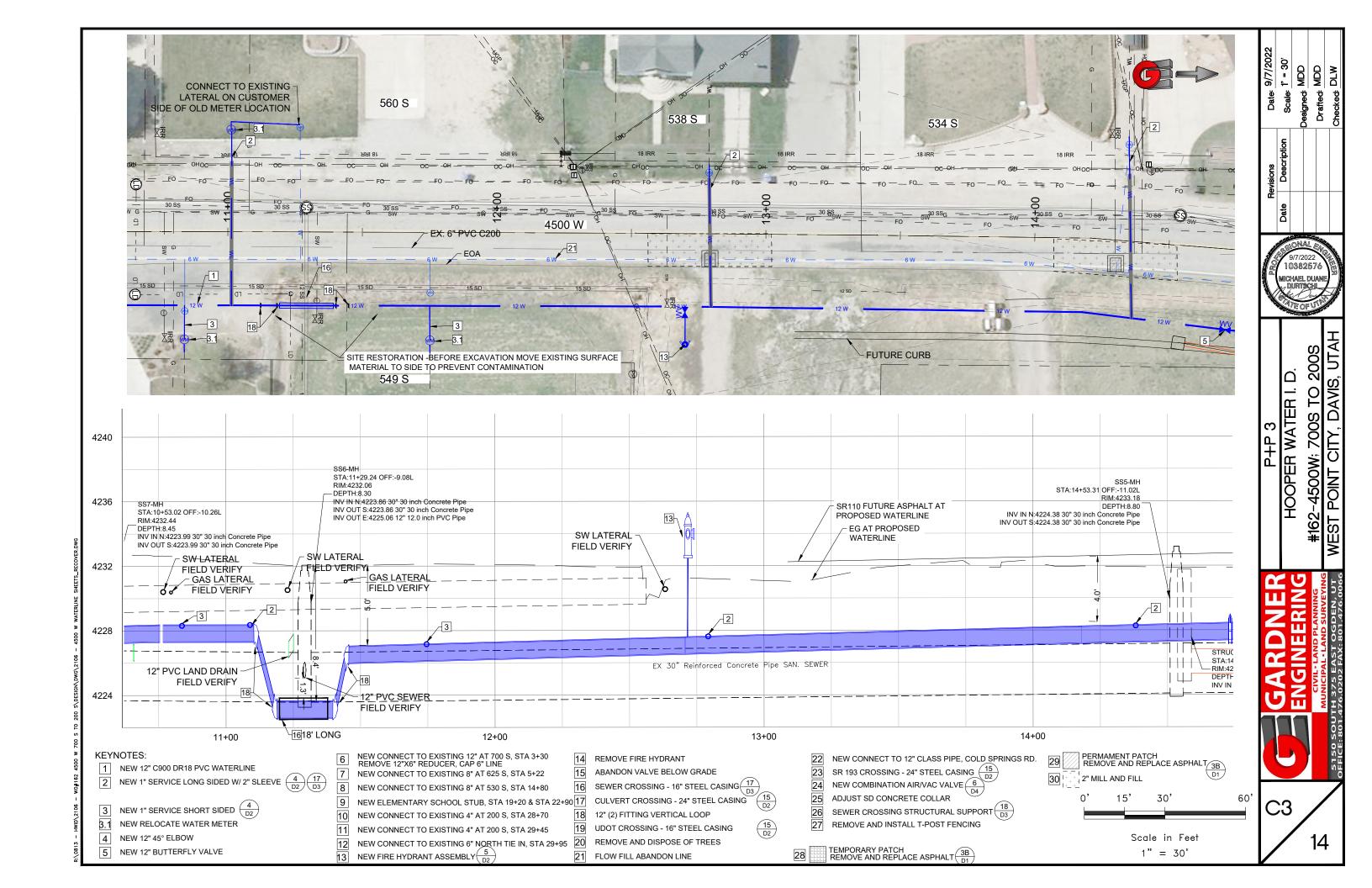
- 1. ALL INSTALLATION AND MATERIALS INSTALLED SHALL BE NEW AND CONFORM TO HOOOPER WATER I.D. STANDARDS, SPECIFICATIONS AND
- 2. ALL INTERIOR SURFACES AND COATINGS SHALL COMPLY WITH ANSI/NSF STANDARD 61. THIS REQUIREMENT APPLIES TO ANY PIPES AND FITTINGS, PROTECTIVE MATERIALS (E.G., PAINTS, COATINGS, CONCRETE ADMIXTURES, CONCRETE RELEASE AGENTS, OR CONCRETE SEALERS), JOINING AND SEALING MATERIALS (E.G., ADHESIVES, CAULKS, GASKETS, PRIMERS AND SEALANTS) AND MECHANICAL DEVICES (E.G., ELECTRICAL WIRE, SWITCHES, SENSORS, VALVES, OR SUBMERSIBLE PUMPS) THAT MAY COME INTO CONTACT WITH THE DRINKING
- 3. THE CURRENT REQUIREMENTS OF THE UTAH DIVISION OF DRINKING WATER, GOVERNING THE MATERIALS AND INSTALLATION USED IN THE PROJECT SHALL BE MET
- 4. THRUST BLOCKING AND MECHANICAL RESTRAINTS ARE REQUIRED AT ALL BENDS AND FITTINGS.
- 5. ALL WATERLINES AT SEWER CROSSINGS SHALL BE LOCATED ABOVE AND HAVE AN 18-INCH VERTICAL SEPARATION FROM THE SEWER PIPE.
- 6. DISINFECTION TESTS SHALL BE PERFORMED AND PAID FOR BY THE DISTRICT. WITH COOPERATION FROM THE CONTRACTOR IN PERFORMING ANY NECESSARY EXCAVATION AND SUBSEQUENT BACKFILLING AT NO ADDITIONAL COST TO THE DISTRICT
- 7. CHLORINATION OF COMPLETED WATER LINE. THE NEW WATER LINES SHALL BE DISINFECTED BY CHLORINATION IN ACCORDANCE WITH AWWA STANDARD C651-14. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS RELATED TO THE CHLORINATION OF THE COMPLETED WATER LINE. THIS TEST SHALL BE PERFORMED BY THE DISTRICT. PRIOR TO CONNECTION OF THE NEW WATER LINES TO THE EXISTING WATER SYSTEM. THE CONTRACTOR SHALL NOTIFY THE WATER UTILITY AT LEAST 24 HOURS BEFORE THE TESTING IS DESIRED.
- 8. A MINIMUM HORIZONTAL CLEARANCE OF 10 FEET SHALL BE MAINTAINED BETWEEN CULINARY WATER AND SANITARY SEWER MAINS.
- 9. UNLESS OTHERWISE SPECIFIED, ALL WATERLINES SHALL BE AWWA C900 DR18 AND SHALL BE PRESSURE TESTED AT 200 PSI FOR AT LEAST 2 HOURS ACCORDING TO TO AWWA STANDARD C600
- 10. CONTRACTOR SHALL LOCATE VALVES PRIOR TO CONNECTION WITH EXISTING SYSTEM, BUT SHALL NOT OPERATE ANY VALVE WITHOUT PERMISSION FROM THE WATER UTILITY.
- 11. ALL WATER MAINS, VALVES, FIRE HYDRANTS, SERVICES AND APPURTENANCES SHALL BE INSTALLED, TESTED, AND APPROVED PRIOR TO COMMISSIONING WATER LINE.
- 12. THE WATER UTILITY REQUIRES THE USE OF CORROSION RESISTANT MATERIALS FOR ALL CULINARY WATER IMPROVEMENTS. SPECIFICALLY, TRIPAC BLUE BOLTS OR STAINLESS STEEL BOLTS MUST BE USED ON ALL FITTINGS. FURTHER, ALL METAL FITTINGS SHALL BE

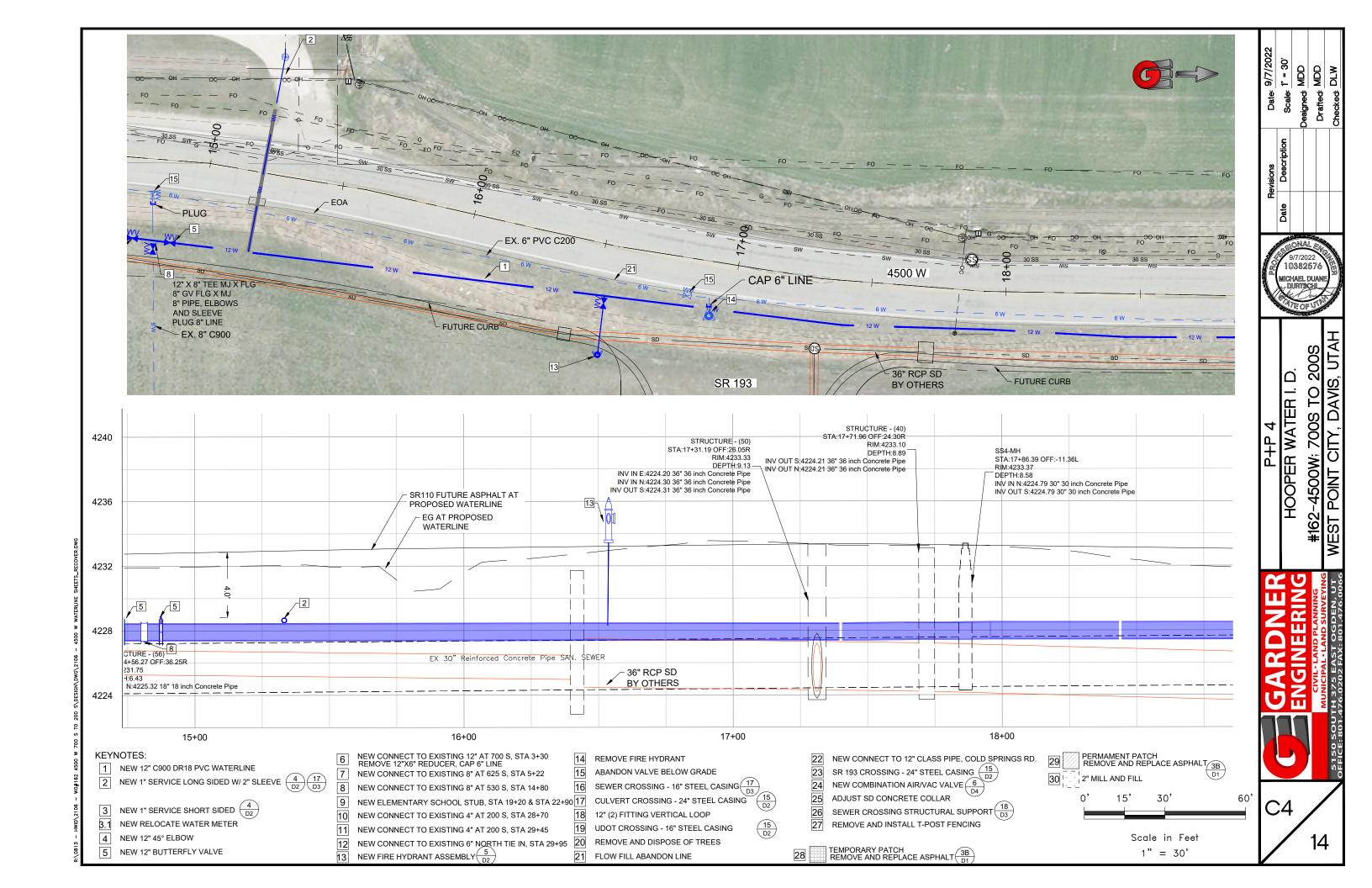
UTILITY DISCLAIMER

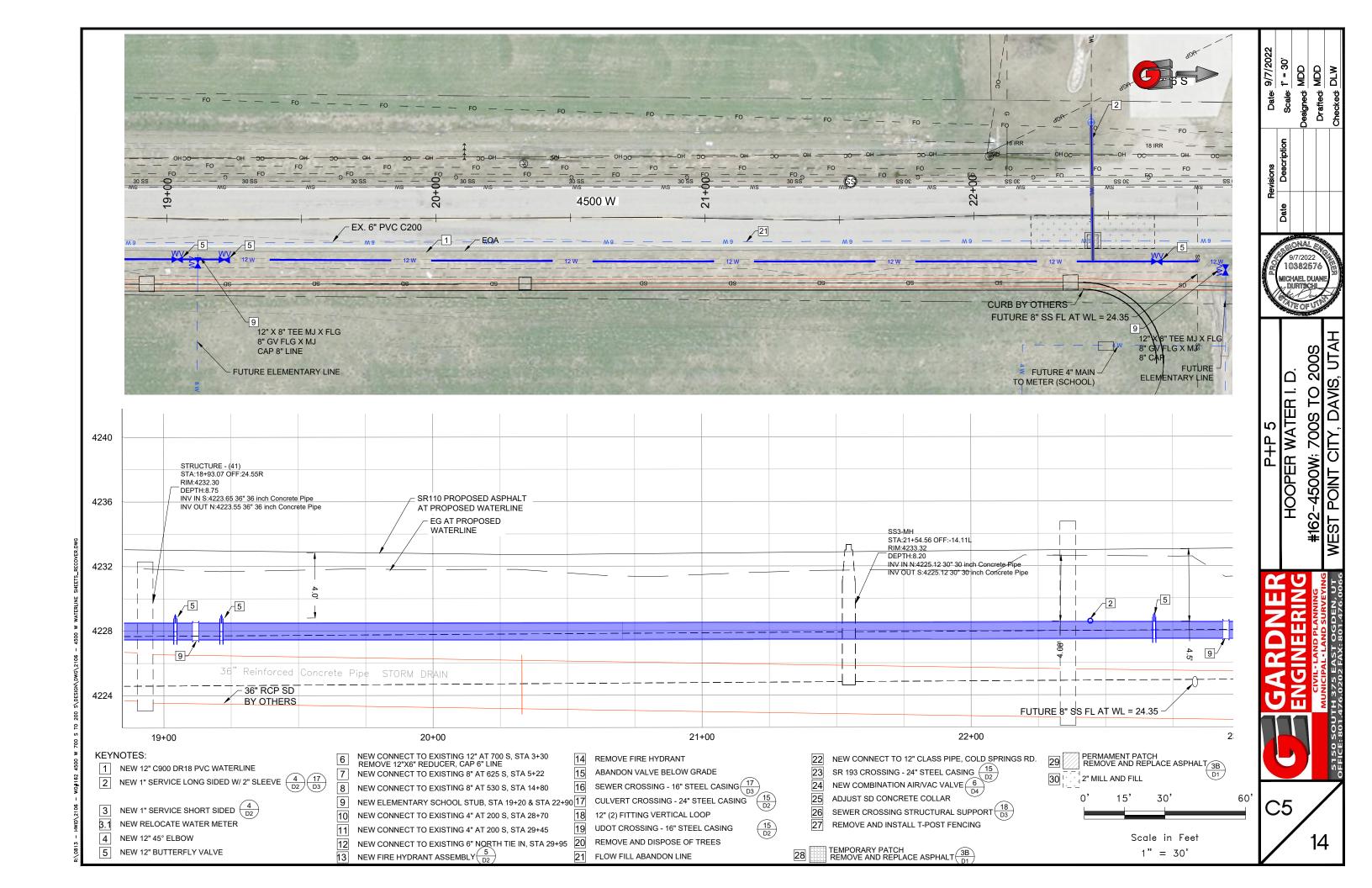
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT

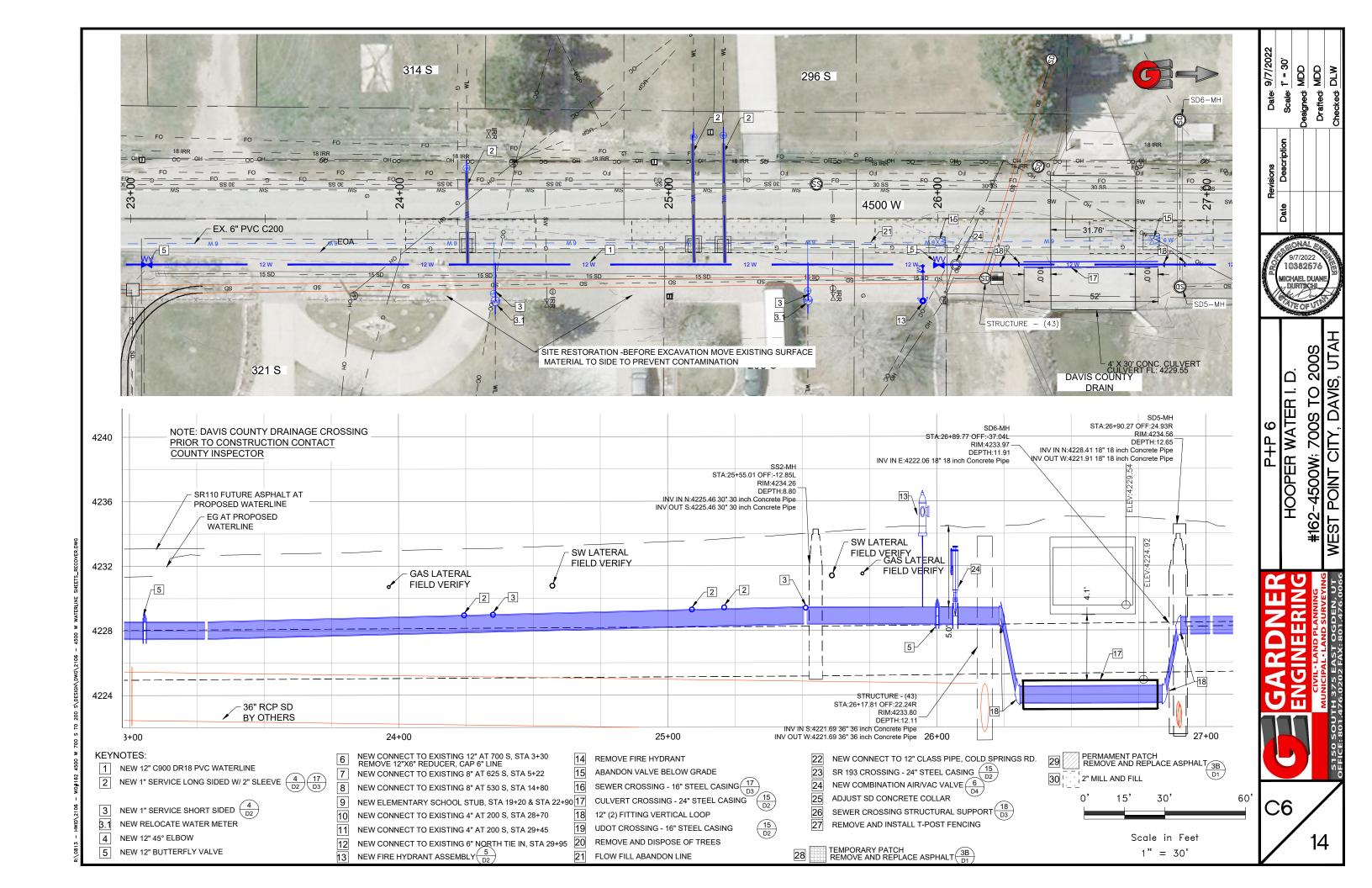


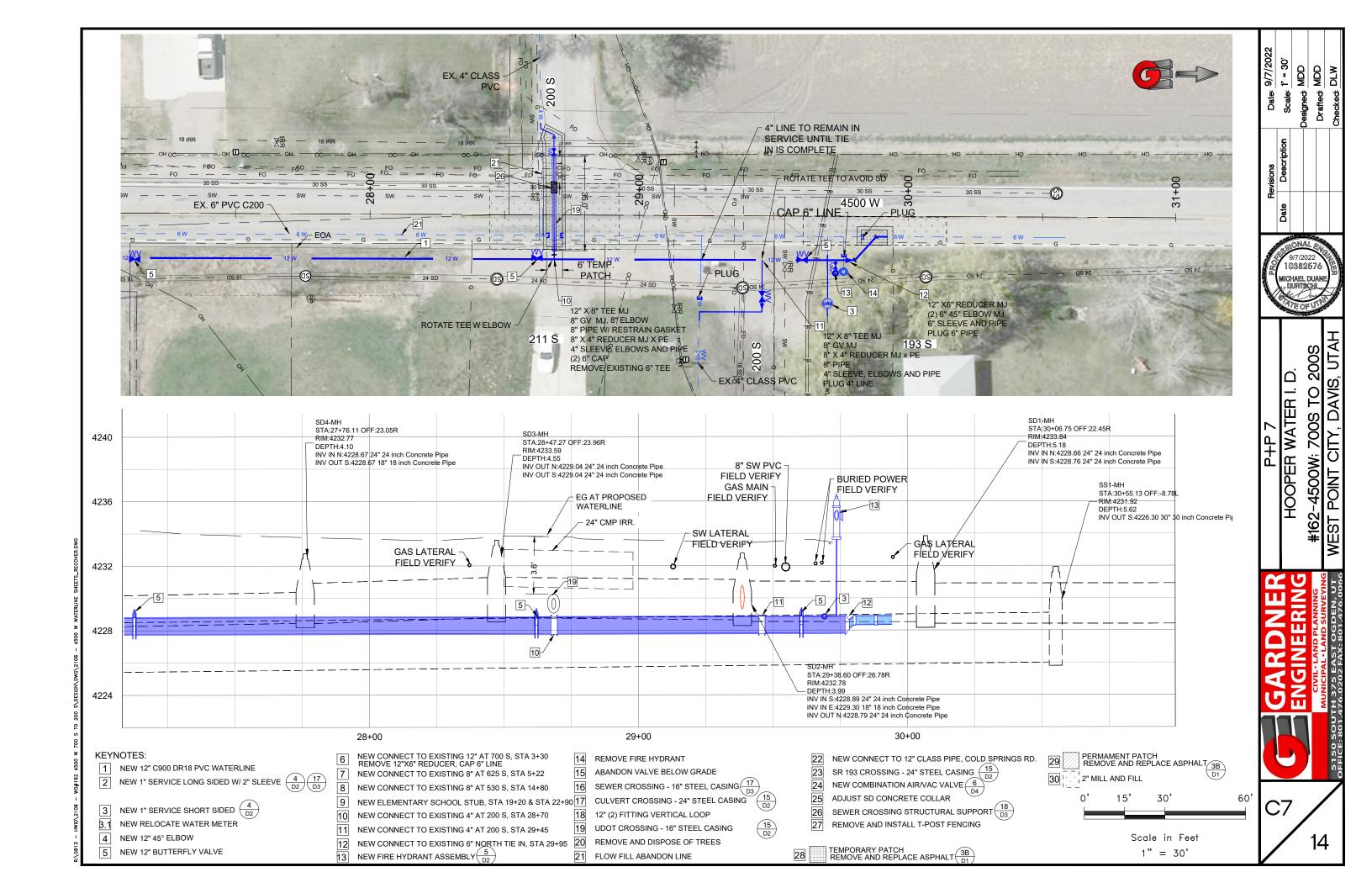


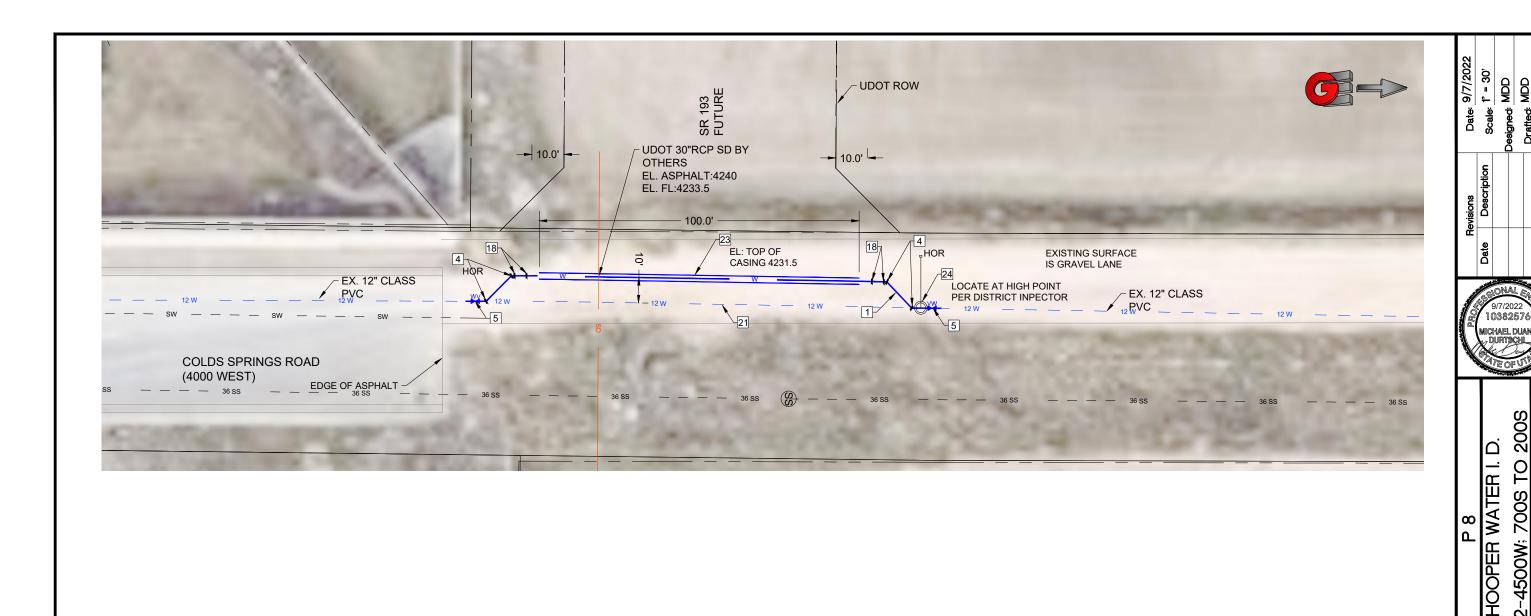














1 NEW 12" C900 DR18 PVC WATERLINE

NEW 1" SERVICE LONG SIDED W/ 2" SLEEVE 4 17 D3

8

3 NEW 1" SERVICE SHORT SIDED $\binom{4}{D2}$ 3.1 NEW RELOCATE WATER METER

NEW 12" 45° ELBOW

NEW 12" BUTTERFLY VALVE

NEW CONNECT TO EXISTING 12" AT 700 S, STA 3+30 REMOVE 12"X6" REDUCER, CAP 6" LINE NEW CONNECT TO EXISTING 8" AT 625 S, STA 5+22

NEW CONNECT TO EXISTING 8" AT 530 S, STA 14+80

NEW ELEMENTARY SCHOOL STUB, STA 19+20 & STA 22+90 17

10 NEW CONNECT TO EXISTING 4" AT 200 S, STA 28+70 11 NEW CONNECT TO EXISTING 4" AT 200 S, STA 29+45

12 NEW CONNECT TO EXISTING 6" NORTH TIE IN, STA 29+95 20 NEW FIRE HYDRANT ASSEMBLY $\left(\frac{5}{D^2}\right)$

REMOVE FIRE HYDRANT ABANDON VALVE BELOW GRADE

SEWER CROSSING - 16" STEEL CASING $\frac{17}{D3}$ CULVERT CROSSING - 24" STEEL CASING

12" (2) FITTING VERTICAL LOOP UDOT CROSSING - 16" STEEL CASING

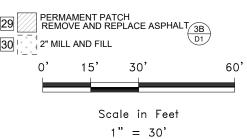
REMOVE AND DISPOSE OF TREES 21 FLOW FILL ABANDON LINE

NEW CONNECT TO 12" CLASS PIPE, COLD SPRINGS RD. SR 193 CROSSING - 24" STEEL CASING (15)

23 SR 193 CROSSING - 24" STEEL CASING
24 NEW COMBINATION AIR/VAC VALVE
25 ADJUST SD CONCRETE COLLAR
26 SEWER CROSSING STRUCTURAL SUPPOR
27 REMOVE AND INSTALL T-POST FENCING SEWER CROSSING STRUCTURAL SUPPORT $\frac{18}{D3}$

TEMPORARY PATCH
REMOVE AND REPLACE ASPHALT

O1





Hooper Water Improvement District Standard Details Revision Summary

Date	Detail No.	Description Description			
2018/10/24		Standard Details DDW approval			
2018/10/12	4	Add requirement to cap lateral stup			
2018/10/12	5	Add note to ensure thrust block does not block drain holes			
2018/10/12	6	Standpipe detail: addinote requiring 3" screen overlap			
2018/11/16	15	Change Note 5 to mimic DDW rule language			
2019/02/13	2	Add valve size and location std.			
2019/02/13	6	Air/Vac Vaive Detail: add note for PEX pipe transition to reduce stres			
2019/02/13	16	Change detail to require horizontal brass nipple beyond curbstop			
2019/11/18	4	Add requirements for meter box in traffic areas			
2019/11/18	8	Add multiple meter manifold detail			
2020/03/17	4	Change detail to sai- for SDR 9 lateral and no couplings			
2020/03/17	9	Change detail to carl for SDR 9 lateral and no couplings			
2020/03/17	10	Change detail to call for SOR 9 lateral and no couplings			
2020/03/17	11	Change detail to call for SDR 9 lateral and no couplings			
2020/03/17	8	Change detail to call for SDR 9 lateral; 8 meter maximum			
2021/04/23	5	Add Concrete collar requirement to Snake Pit			
2021/09/24	16	18" Square concrete pad			
2021/12/07	3A	Non-ROW, perpetual transmission lines shall be HDPE			
2021/12/07	4	Meter Tags required when boxes are close			

TABLE OF BEARING AREAS IN SQ. FT FOR CONCRETE THRUST BLOCKING

SIZE	BENDS				TEFE	GATE	DEAD	CROSSW/	CROSSW/
	90*	45*	22 1/2"	11 %	TEES*	VALVES	ENDS	1BRANCH PLUGGED	2 BRAN. PLUGGED
3	1.0	0.0	0.3	0	0.7	0.5	0.7	0.7	0.7
4	1.8	1.0	0.5	0	1.3	0.5	1.3	1.3	1.3
6	4.0	2.2	1.1	0	2.8	0.7	2.8	2.8	2.8
8	7.1	3.8	2.0	1.0	5.0	2.4	5.0	5.0	5.0
10	11.1	6.0	3.0	1.5	7.8	4.5	7.8	7.8	7.8
12	16.0	8.6	4.4	2.2	11.3	7.3	11.3	11.3	11.3
14	21.7	11.8	6.0	3.0	15.4	11.0	15.4	15.4	15.4
15	25.0	13.5	7.0	3.5	17.6		176	17.6	17.6
16	28.4	15.3	0.8	4.0	20.0	z	20.0	20.0	20.0
18	36.0	19.4	10.0	5.0	25.4	DESIGN	25.4	25.4	25.4
20	44.2	24.0	12.2	6.1	31.4	8	31.4	31.4	31.4
21	49.0	26.5	13.5	6.8	34.6		34.6	34.6	34.6
22	54.0	29.0	14.8	7.4	38.0	SPECIAL	38.0	38.0	38.0
24	64.0	34.5	17.7	8.8	45.0] H	45.0	45.0	45.0
30	100.0	54.0	27.6	13.8	71.Q	ζ.	71_0	71.0	71.0
36	144.0	78.0	40.D	20.0	102.0		102.0	102.0	102.0

FOR 100 P.S.I. INTERNAL STATIC PRESSURE AND 1000 LBS.PER SQ. FT. SOIL BEARING CAPACITY.

AROUND GATE VALVES TO THRUST BLOCK ALL TIMBER FOR REDWOOD . VALVE * THRUST BLOCKS REQUIRED AT ALL BENDS 11 ½° OR MORE. CONCRETE SHALL NOT BE PLACED AROUND JOINTS AND BOLTS. COVER ALL METAL CONTACT AREAS WITH A POLY WRAP PRIOR TO CONCRETE PLACEMENT. IN THE ABSENCE OF A SOIL REPORT, ALL THRUST BLOCKS SHALL BE SIZED ON THE BASIS OF A MAXIMUM LATERAL BEARING VALUE OF 800 P S F, AND A THRUST RESULTING FROM 150% OF THE WATER LINE

1\2"Ø ANCHORS

*ALL VALVES, TEES, CROSSES AND BENDS SHALL ALSO BE FITTED WITH MECHANICAL RESTRAINTS, SUCH AS MEGA LUG OR ROMA GRIP WITH FLUOROPOLYMER COATED BOLTS AND NUTS.

AREAS GIVEN IN TABLE ARE BASED UPON AN INTERNAL STATIC PRESSURE OF 100 P.S.I AND A SOIL BEARING CAPACITY OF 1000 LBS PER SQ. ET. BEARING AREAS FOR ANY PRESSURE AND SOIL BEARING CAPACITY MAY BE OBTAINED BY MULTIPLYING THE TABULATED VALUES BY A CORRECTION FACTOR "F"

F= ACTUAL SPECIFIED TEST PRESSURE IN HUNDREDS OF LBS/SQ. IN. ACTUAL SOIL BEARING CAPACITY IN THOUSANDS OF LBS.

EXAMPLE: TO FIND BEARING AREA FOR 8"-90" BEND WITH A STATIC INTERNAL PRESSURE OF 150 P.S.I AND WITH A SOIL BEARING CAPACITY OF 3000 LBS. PER SQ.

F=1.5 / 3=0.5 TABULATED VALUE = 7.1 SQ. FT. 0.5 X 7.1=3.56 ~ 4 SQ. FT. (~OR 2FT. LONG BY 2FT. HIGH.)

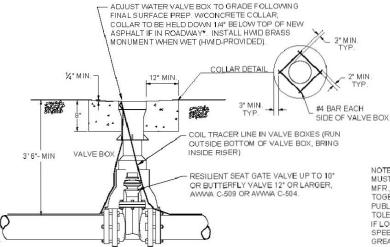
THRUST BLOCK DETAIL APPLIES TO ALL PRESSURE PIPE

AT TEES AND CROSSES, A VALVE HALL BE INSTALLED IN EACH MAIN LINE, OUT OF THE INTERSECTION T THE EXTENSION OF PROPERTY INES.

/ALVE LOCATION STANDARD:

AN EXCEPTION TO THE NUMBER OF ALVES MAY BE MADE BY THE DISTRICT WHEN FOLLOWING THE STANDARD WILL PUT MAIN LINE VALVES WITHIN 250' OF EACH

N ISOLATION VALVE SHALL BE NSTALLED IN MAIN LINES ON EACH END OF AN EASEMENT THROUGH RIVATE PROPERTY



TYPICAL VALVE DETAIL

RAFTED: MDD DEVIATIONS FROM STANDARDS MUST BI SIGNED: DW APPROVED BY HOOPER WATER HECKED: CA IMPROVEMENT DISTRICT. ATE: 4/2018

/ 1:02/13/2019 VALVE SIZE AND LOCATION

STANDARD WATER DETAILS

HOOPER WATER IMPROVEMENT DISTRICT THRUST BLOCK TYPICAL VALVE

SHEET

NTS

NTS

NOTE: VALVE BOX, RISER AND LID MUST COME FROM THE SAME MFR., BE INTENDED FOR USE TOGETHER AND SHALL BE WITHIN PUBLISHED DIMENSION TOLERANCES IF LOCATED IN ROADWAY W/ SPEED LIMIT OF 40 MPH OR GREATER, LID SHALL BE HEAVY AND EXTRA DEEP.

> UDOT CROSSING TRENCH DETAIL **3B**

> > DEVIATIONS FROM STANDARDS MUST BE APPROVED BY HOOPER WATER IMPROVEMENT DISTRICT.

UDOT.UTAH.GOV/GO/2017 STANDARDS.

REV 1: 2021/12/10 NON-ROW HDPI

RESTORE ALL LANDSCAPING AND SHOULDERING TO

PROPERTY OWNER, IF NOT WITHIN THE UDOT ROW

COVER DEPTH SEE UDOT STANDARD-

DRAWING DD16

6" BEDDING MATERAIAL UNDER PIPE, COMPACT TO 90% AASHTO

IN UNSTABLE GROUND AREAS

COMPACT TO 90% AASHTO T-180

NOTE: CONTRACTOR SHALL OBTAIN UDOT PERMIT PRIOR COMMENCING WORK

(ESTIMATED APPLICATION RATE OF 0.45 GAL/SY) IS REQUIRED FOR THIS ROADWAY

ALL CONSTRUCTION WITHIN THE UDOT RIGHT-OF-WAY SHALL CONFORM TO THE MOST CURRENT UDOT STANDARD DRAWING AND SPECIFICATIONS. FOUND AT

ON AT LEAST ALL NEW PAVEMENT PLACED WITHIN THE UDOT RIGHT-OF-WAY

CHIP SEAL TYPE II WITH EMULSION LM CRS PER UDOT STD. SPEC 02785

UDOT STANDARDS OR TO THE REQUIREMENTS OF THE-

2" MILL AND FILL TYPICAL EACH SIDE OF TRENCH



NOTIE:

- WATER & SEWER LINES SHALL BE INSTALLED A MINIMUM OF 10 HORIZONTAL FEET FROM EACH OTHER.

- WHERE A WATER MAIN AND A SEWER MAIN MUST CROSS, THE WATER MAIN SHALL BE AT LEAST 18" ABOVE THE SEWER MAIN.

THE SEWER MAIN.

SEPARATION DISTANCES ARE TO BE MEASURED EDGE-TO-EDGE.

WATER MAINS SHALL NOT BE INSTALLED IN THE SAME TRENCH WITH EITHER SEWER OR SECONDARY PIPES.

ALL NON-ROW WATERUNES INTENDED FOR PERPETUAL TRANSMISSION LINE WIO SERVICE TAPS SHALL BE HDPE. CONSULT DISTRICT.

IF THESE STANDARDS CANNOT BE MET, CONTACT THE DISTRICT INSPECTOR, WHO MAY THEN CONTACT THE DISTRICT ENGINEER.

MATCH EXISTING PAVEMENT THICKNESS, PAVEMENT PER UDOT SPEC. 8" MIN. UDOT

12" MIN

STANDARD SPECIFICATION 0274

APPROVED ½" HMA. PG-GRADE 64-34 ASPHALTS BINDER. 7-75-115 GYRATION PER UDOT

STANDARD WATER DETAILS

HOOPER WATER IMPROVEMENT DISTRICT TYPICAL TRENCH SECTION UDOT CROSSING TRENCH DETAIL SHEET 2



EXISTING ASPHALT MUST BE

SAWCUT AT DESIGNED LANE LINES

-SAWCUTS MUST BE CLEANED AND A TACK-COAT APPLIED BEFORE

6" UTBC PER UDOT STD. SPEC 02721

12" GRANULAR BORROW OR APPROVED -NATIVE MATERIAL COMPACTED TO 96%

SHALL BE COMPACTED TO 96% BY

INSTALL PIPE ON STABLE FOUNDATION

* FLOWABLE FILL MAY BE

REQUIRED BY UDOT PERMIT.

SHAPE TRENCH BY HAND TO FIT

BOTTOM QUADRANT OF PIPE

BY AASHTO T180 METHOD D.*

AASHTO T180 METHOD D.

TRACER WIRE # 14 GAUGE

PLASTIC COATED COPPER TAPED TO TOP OF PIPE

LENGTH OF PIPE.

_10" MIN IMPORTED GRANULAR BORROW PER UDOT STD. SPEC 02056*

SURFACE SEAL SEE

NOTE BELOW

OR DESIGNED CENTER OF LANE

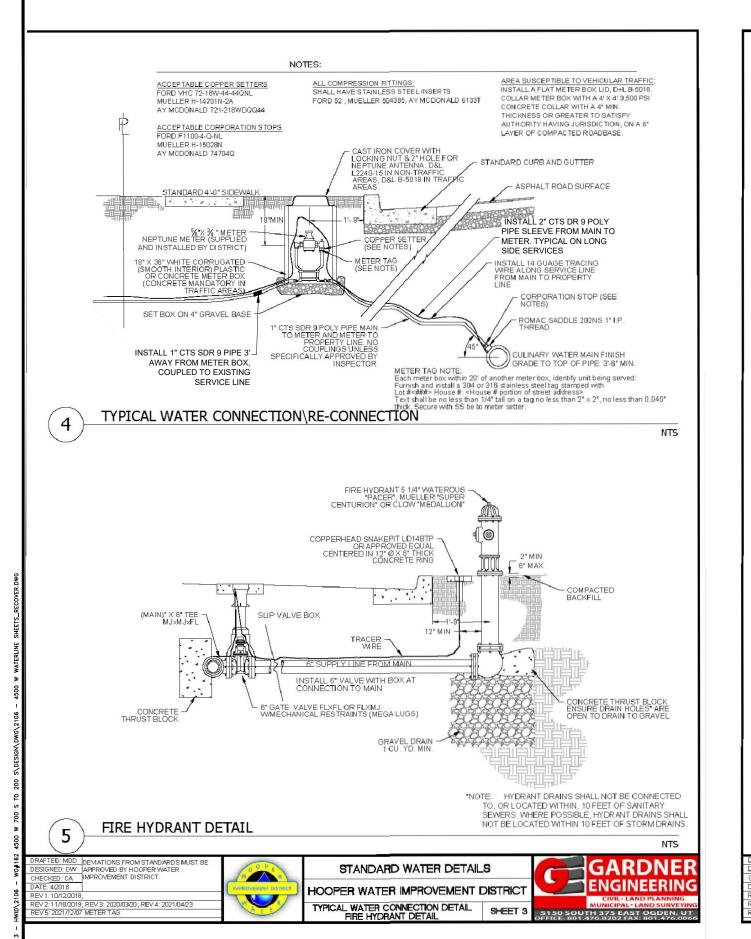
ASPHALT PLACEMENT (MILLING

9/7/2022 ###### MDD Δ

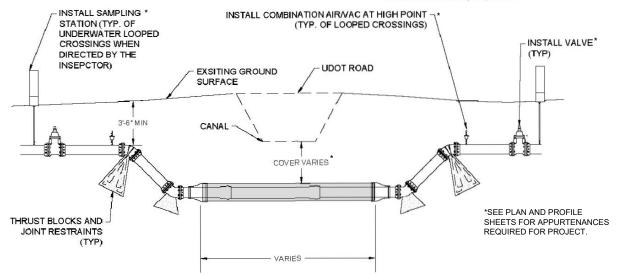


2002 DAVIS. DETAILS HOOPER WATER **7008** CITY -4500W; POINT CI

WEST



PIPE SIZE CASING SIZE* COVER (MIN.) LAYTON CANAL 4'-0' 16" HOOPER CANAL 2'-0" 12" 24" 2'-0" WILSON CANAL 30" SLOUGH 2'-0" SEE UDOT STD DWG DD16 16"-20" 30" UDOT ROAD * CASING WALL THICKNESS (0.375") TYPICAL



- 1. CASINGS REQUIRE CENTRALIZING SPACERS AND END SEALS W/ S.S. BAND
- CLAMPS SUBMITTED TO INSPECTOR FOR APPROVAL PRIOR TO INSTALLATION.

 2. PVC PIPE REQUIRES SELF- RESTRAINING GASKETS ON PIPE JOINTS INSIDE OF CASING AND ONE PIPE JOINT EACH SIDE OF CASING.
- 3. ISOLATION VALVE INSTALLATION IS REQUIRED ON EACH SIDE OF CASING.
- 4. COMBINATION AIRWAC VALVE INSTALLATION IS REQUIRED ON EACH SIDE OF LOOPED CROSSINGS.
- 5. INSTALLATION OF A SAMPLING TAP OR OTHER ACCEPTABLE MEANS OF SAMPLING WILL BE REQUIRED TO ALLOW FOR REPRESENTATIVE WATER QUALITY TESTING ON THE UPSTREAM AND DOWNSTREAM SIDE OF THE CROSSING, IF THE DISTRICT INSPECTOR DETERMINES THAT ANOTHER MEANS OF SAMPLING DOES NOT EXIST NEAR THE GIVEN LOCATION.
- CROSSINGS SHALL BE COMMISSIONED AS AN INTEGRAL PART OF THE SURROUNDING PIPE SYSTEM (FLUSH, DISINFECT, PRESSURE TEST).



CANAL/UDOT CROSSING DETAIL

ED: MDD	DEVIATIONS FROM STANDARDS MUST BE	
	APPROVED BY HOOPER WATER	10
KED: CA	IMPROVEMENT DISTRICT.	H
4/2018		HAPROVI
10/12/2018	: NOTES 4-6; SAMPLING STATIONS	
11/16/2018	NOTE 5: STATION LOCATIONS	W



STANDARD WATER DETAILS

HOOPER WATER IMPROVEMENT DISTRICT CANAL/UDOT CROSSING DETAIL SHEET 1



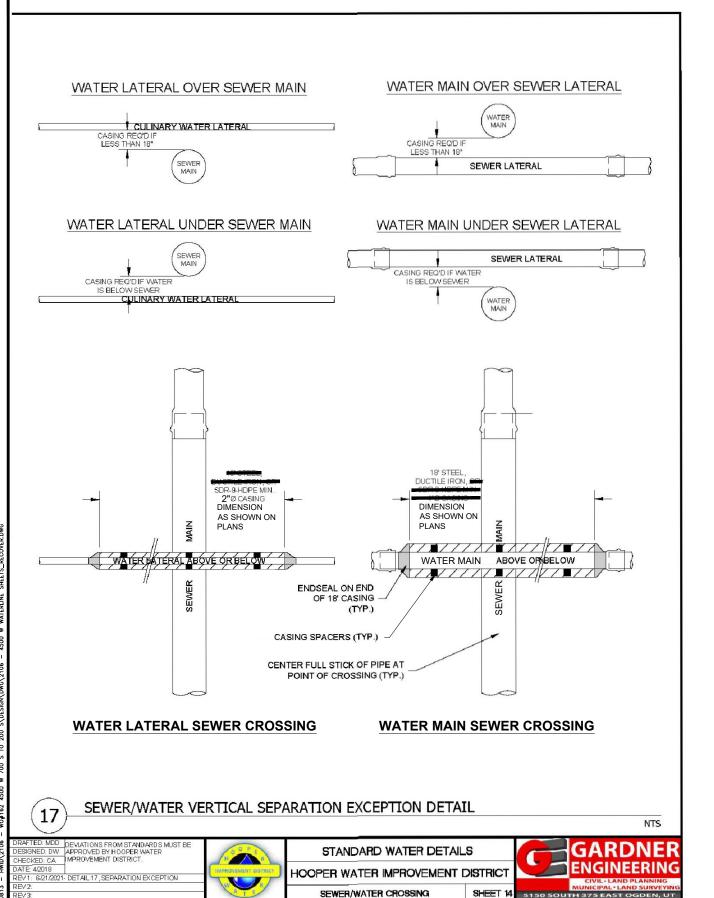
9/7/2022 MDD Drafted



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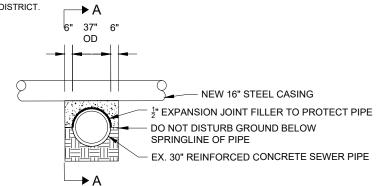
WATER I. **7008** DETAIL: HOOPER WAT -4500W; POINT CI #162

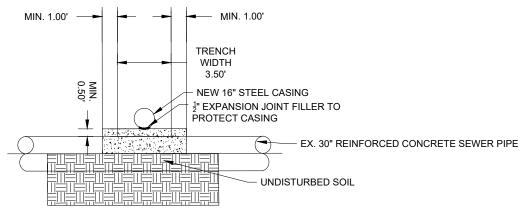
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NOTES:

- PRIOR TO CONSTRUCTION CONTACT NORTH DAVIS SEWER DISTRICT -801-825-0712 FOR INSPECTION.
- INSTALL #15 FELT OR NEOPRENE WATERSTOP AROUND NEW WATER PIPE PRIOR TO THE POUR OF CONCRETE ENCASEMENT TO PREVENT BONDING.
- BACKFILL TO BE BROUGHT UP UNIFORMLY ON BOTH SIDES OF CONC.
- CONCRETE SHALL BE TYPE II/V PORTLAND CEMENT PER ASTM C150 WITH A MINIMUM COMPRESSIVE STRENGTH OF 300 PSI PER ASTM C39. NO ADDITIVES SHALL BE PERMITTED WITHOUT PRIOR APPROVAL BY THE





SECTION A-A

SEWER CROSSING STRUCTURAL SUPPORT

2002 DETAILS HOOPER WATER I. 700S 2-4500W; 700; POINT CITY.

9/7/2022 ###### MDD

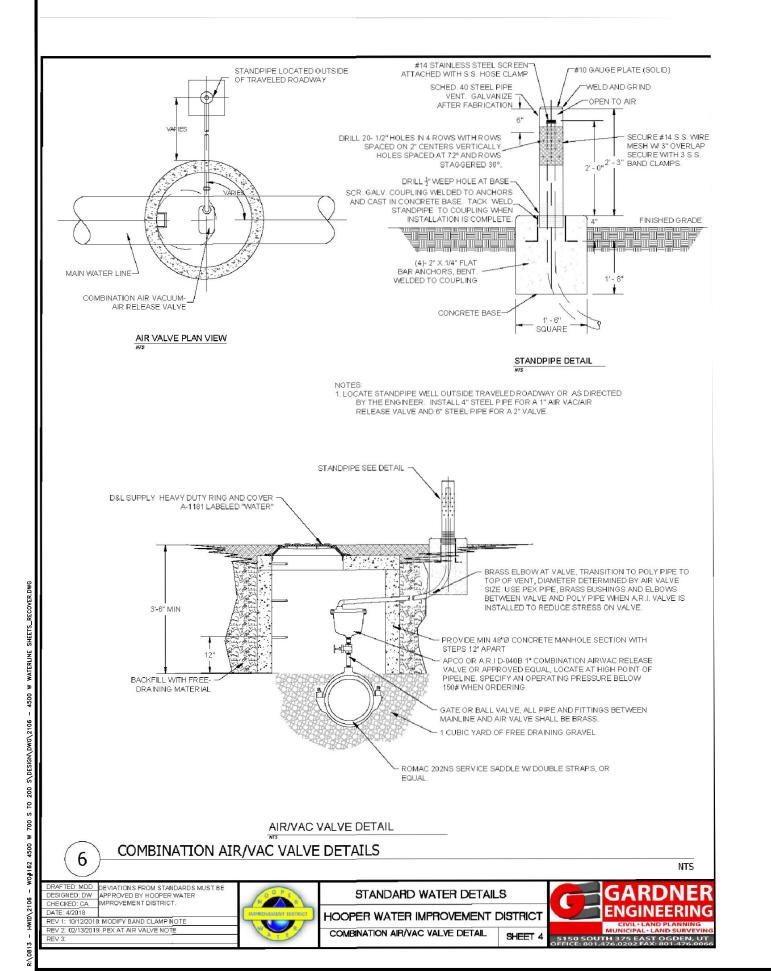
Desc

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Drafted

NTS



9/7/2022 ####### MDD MDD DLW Drafted Desc 1038257 MICHAEL DUANI DURTSCHI **2008** DETAILS HOOPER WATER I. **2002** 2-4500W; 700; POINT CITY,

