

MIDWAY CITY

NORTH CENTER STREET - WATER & SEWER IMPROVEMENTS 2024

MIDWAY CITY

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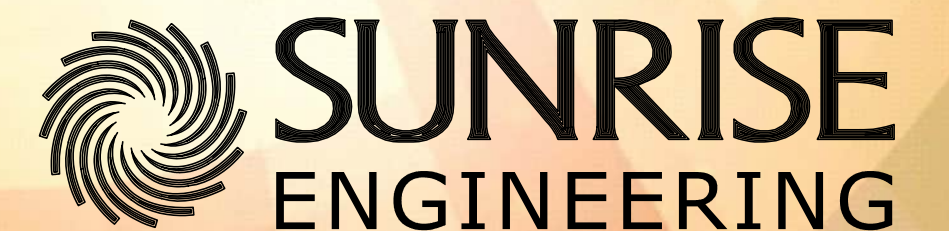


Midway

APPROVED MIDWAY CITY
ENGINEERING DEPARTMENT
[Signature]
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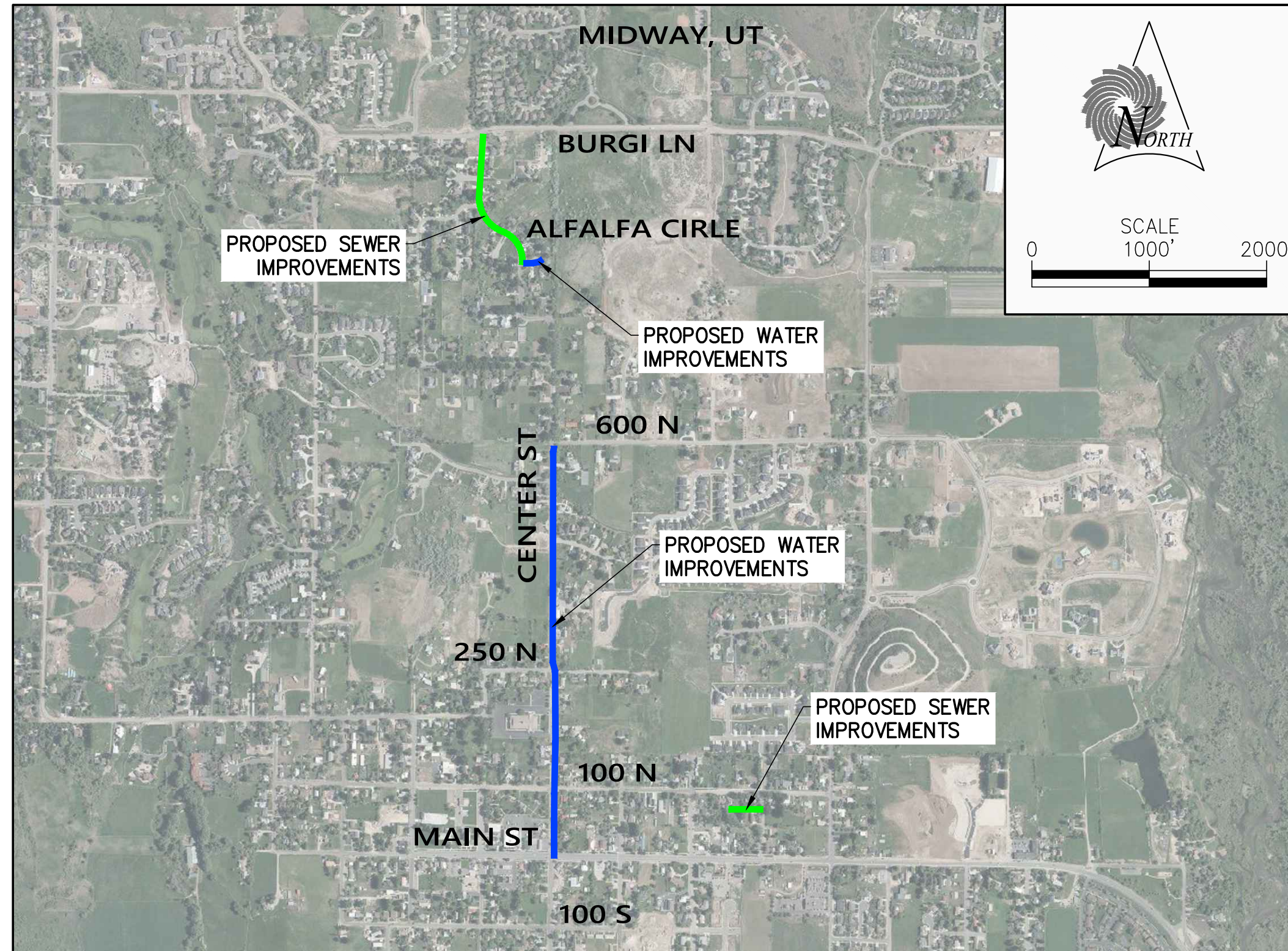


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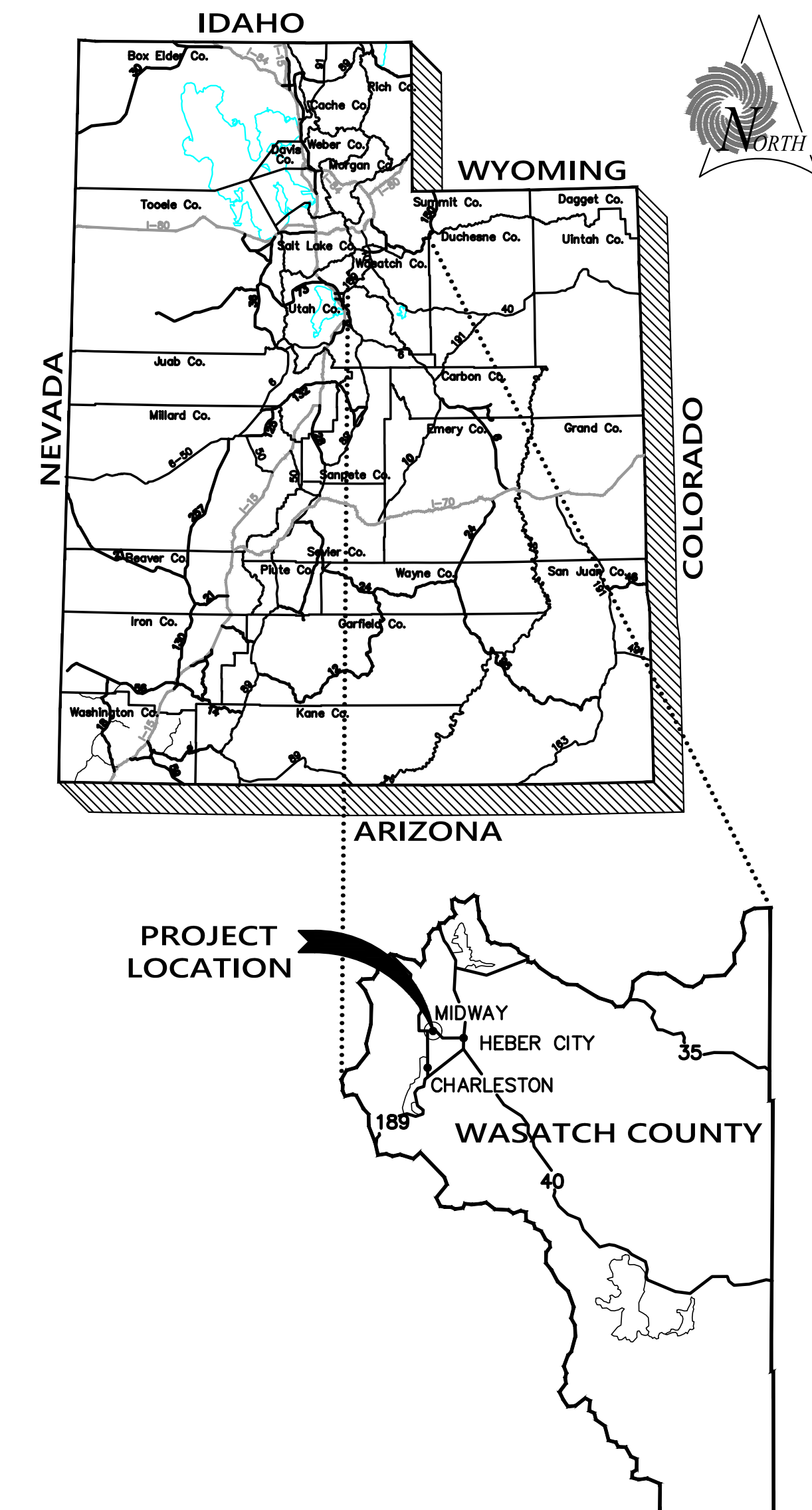
ABBREVIATIONS

AB	ANCHOR BOLT	JT.	JOINT
ALT.	ALTERNATE	J.B.	JUNCTION BOX
ALUM.	ALUMINUM	L	LENGTH
ACI	AMERICAN CONCRETE INSTITUTE	LN.	LINEAR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LF	LINEAR FEET
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	MH	MANHOLE
∠	ANGLE	MFR.	MANUFACTURER
APPROX. or ~	APPROXIMATELY	MATL.	MATERIAL
ASSY.	ASSEMBLY	MAX.	MAXIMUM
⊙	AT (MEASUREMENTS)	MECH.	MECHANICAL
AVG.	AVERAGE	MJ	MECHANICAL JOINT
B.M.	BENCH MARK	MGD	MILLIONS OF GALLONS PER DAY
BSC	BITUMINOUS SURFACE COURSE	MIN.	MINIMUM
B.F.	BLIND FLANGE	N	NORTH
B.W.	BOTH WAYS	NAC	NEVADA ADMINISTRATIVE CODE
BOT.	BOTTOM	NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
BLDG.	BUILDING	NDEP	NEVADA DEPARTMENT OF ENVIRONMENTAL PROTECTION
BLM	BUREAU OF LAND MANAGEMENT	NO. OR #	NUMBER
BSDW	BUREAU OF SAFE DRINKING WATER (NV)	O.C.	ON CENTER
⊕	CENTER LINE	OD	OUTSIDE DIAMETER
CO	CLEAN OUT	PERP.	PERPENDICULAR
CONC.	CONCRETE	PL.	PLATE
CONT.	CONTINUOUS	±	PLUS OR MINUS
CMP	CORRUGATED METAL PIPE	PE	POLYETHYLENE
CPLG.	COUPLING	PE. PIPE	POLYETHYLENE PIPE
CFS	CUBIC FEET PER SECOND	PVC	POLYVINYL-CHLORIDE
CU.	CUBIC	LB. OR #	POUND
CU. YD.	CUBIC YARD	PSI	POUNDS PER SQUARE INCH
DEG. OR °	DEGREE	PG	PRESSURE GAUGE
Δ	DELTA	ℙ	PROPERTY LINE
DET.	DETAIL	R	RADIUS
DIAG.	DIAGONAL	RED.	REDUCER
DIA. OR ∅	DIAMETER	REM.	REMOVE
DIM	DIMENSION	REQ'D	REQUIRED
DIST.	DISTRIBUTION	REV.	REVISION
DWG	DRAWING	R/W	RIGHT-OF-WAY
DIP	DUCTILE IRON PIPE	SCH	SCHEDULE
E	EAST	SHT.	SHEET
EA.	EACH	SL	SLOPE
E.F.	EACH FACE	S	SOUTH
ELEV. OR EL.	ELEVATION	SPEC.	SPECIFICATION
ELL.	ELBOW	SQ.	SQUARE
EOP	EDGE OF PAVEMENT	SF	SQUARE FEET
E.W.	EACH WAY	SQ. IN.	SQUARE INCHES
EXIST.	EXISTING	ST. STL.	STAINLESS STEEL
FT OR '	FEET	STD.	STANDARD
FG	FINISHED GRADE	STA	STATION
FS	FINISHED SURFACE	STL.	STEEL
FTG.	FITTING	SYM.	SYMMETRICAL
FLG	FLANGE	TBC	TOP BACK CURB
FLEX.	FLEXIBLE	TYP.	TYPICAL
ℓ	FLOW LINE	UAC	UTAH ADMINISTRATIVE CODE
GALV.	GALVANIZED	UBC	UNTREATED BASE COURSE
GPM	GALLONS PER MINUTE	UDOT	UTAH DEPARTMENT OF TRANSPORTATION
G.V.	GATE VALVE	VERT.	VERTICAL
GA.	GAUGE	VOL.	VOLUME
HDPE	HIGH DENSITY POLYETHYLENE	WS	WATER SURFACE
H.W.L.	HIGH WATER LEVEL	WT.	WEIGHT
HORIZ.	HORIZONTAL	W	WEST
IN. OR "	INCH	W/REQ'D	WHERE REQUIRED
ID	INSIDE DIAMETER	W/	WITH

LOCATION MAP



AREA MAP



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MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
ABBREVIATIONS, LOCATION MAP, AREA MAP, & SHEET INDEX

SEI NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	G2
S10315	KRM	KRM	DSA	2	

SYMBOL LEGEND

EXISTING	PROPOSED	
		STORM DRAIN MANHOLE
		WATER MANHOLE
		SEWER MANHOLE
		IRRIGATION MANHOLE
		MANHOLE
		CATCH BASIN
		AIR RELEASE VALVE
		VALVE
		FIRE HYDRANT
		WATER METER
		BACKFLOW PREVENTER
		TEE
		CROSS
		ELBOW
		45D FITTING
		22.5D FITTING
		11.25D FITTING
		REDUCER
		SEWER CLEANOUT
		IRRIGATION VALVE
		IRR POINT OF CONNECTION
		GAS METER
		GAS RISER
		GAS VALVE
		FIELD DRAIN
		POWER POLE
		GUY WIRE
		ELECTRIC MANHOLE/VAULT/CABINET
		JUNCTION BOX
		POWER PEDESTAL
		TRANSFORMER
		STREET LIGHT
		PARKING LOT LIGHT
		TRAIL LIGHT
		FIELD/COURT LIGHT
		COMMUNICATIONS VAULT
		SIGN
		VEGETATION
		BRASS CAP MONUMENT
		BENCHMARK

LINETYPE LEGEND

EXISTING	PROPOSED	
		STORM DRAIN LINE (SIZE AS SHOWN)
		WATER LINE (SIZE AS SHOWN)
		SEWER LINE (SIZE AS SHOWN)
		IRRIGATION LINE (SIZE AS SHOWN)
		FIELD DRAIN LINE (SIZE AS SHOWN)
		GAS LINE
		ELECTRIC
		UNDERGROUND ELECTRIC
		OVERHEAD ELECTRIC
		TELECOMMUNICATIONS
		FIBER OPTIC
		BARBED WIRE FENCE
		CHAINLINK FENCE
		WOOD FENCE
		MISC. FENCE
		ROCK WALL
		CMU OR CONCRETE WALL
		EDGE OF PAVEMENT
		MAJOR CONTOUR
		MINOR CONTOUR
		HIGH WATER ELEVATION
		FLOWLINE
		RIGHT-OF-WAY
		PERPETUAL EASEMENT
		PROPERTY LINE
		BOUNDARY LINE
		LOT LINE ON SECTION LINE
		SECTION LINE
		SETBACK LINE

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NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS

LEGEND

SEI NO. S10315	DESIGNED KRM	DRAWN KRM	CHECKED DSA	SHEET NO. 3	G3
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GENERAL NOTES

- CONTRACTOR SHALL FOLLOW GUIDELINES AND REGULATIONS SET FORTH BY OSHA. ENGINEER AND OWNER WILL NOT BE RESPONSIBLE FOR JOB-SITE SAFETY PROCEDURES OR CONDITIONS.
- THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE ORDINANCES AND REGULATIONS. CONTRACTOR SHALL OBTAIN NECESSARY BUILDING AND OTHER PERMITS AND SPECIAL INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES. ALL WORK SHALL BE DONE IN A NEAT, WORKMANLIKE, FINISHED AND SAFE MANNER. IN THE CASE OF A CONFLICTING REQUIREMENT, THE MORE STRINGENT SHALL GOVERN.
- ALL PIPELINES SHALL BE INSTALLED AT LOCATIONS AND DEPTHS REQUIRED BY THE CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS OR AS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOT MOVE THE PLANNED ALIGNMENT OF ANY CULINARY WATER PIPELINE WITHOUT THE WRITTEN CONSENT OF BOTH THE OWNER AND THE ENGINEER.
- ALL COSTS ASSOCIATED WITH THIS PROJECT SHALL BE INCLUDED IN THE PRICES INDICATED IN THE BID SCHEDULE FOR THE VARIOUS ITEMS OF WORK.
- ALL CONSTRUCTION WORK SHALL BE PERFORMED WITHIN EXISTING RIGHTS-OF-WAY OR RIGHTS-OF-WAY OBTAINED BY THE OWNER FOR CONSTRUCTION PURPOSES.
- THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL ROAD CONSTRUCTION, BARRICADES, CHANNELING DEVICES, AND CONSTRUCTION SIGNS IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) FOR ROAD CONSTRUCTION ACTIVITIES.
- TRAFFIC ACCESS SHALL BE MAINTAINED FOR LOCAL RESIDENTS TO PROPERTIES ALONG CONSTRUCTION BOUNDARIES. THE CONTRACTOR SHALL PROVIDE RESIDENTS AT LEAST A 24 HOUR NOTICE BEFORE WATER IS TO BE SHUT OFF AND ANY WORK PERFORMED IN FRONT OF THEIR PROPERTY.
- ALL DAMAGE TO EXISTING ROADWAYS OTHER THAN THAT REPLACED AS PART OF THE CONSTRUCTION PROCESS SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ALL ASPHALT PATCHES SHALL BE PLACED TO PROVIDE A SMOOTH TRANSITION FROM THE EXISTING ASPHALT TO THE PATCH. THE NEW SURFACE SHALL MATCH EXISTING GRADE. DEVIATION FROM THIS SHALL BE IN ACCORDANCE WITH SECTION 02500.3.4.3 OF THE CONTRACT SPECIFICATIONS.
- ANY CANAL OR DITCH CROSSINGS NOT SPECIFICALLY CALLED OUT ON THE PLANS AND BID SCHEDULE ARE CONSIDERED INCIDENTAL TO PIPELINE INSTALLATION, AND SHALL NOT BE PAID FOR SEPARATELY.
- THE CONTRACTOR SHALL PROVIDE MEANS OF MANAGING ANY STORM WATER, GROUNDWATER, OR NUISANCE WATER FROM INTERFERING WITH THE CONSTRUCTION OPERATION. THE COST OF CONTROLLING ALL WATER SHALL BE INCLUDED IN THE CONTRACT PRICE FOR RELATED BID ITEMS.
- THE CONTRACTOR SHALL INCLUDE THE COST FOR ALL EXCAVATION AND DISPOSAL OF EXCESS AND UNSUITABLE MATERIAL IN THE CONTRACT UNIT PRICE FOR THE RELATED BID ITEM.
- ALL DEBRIS RESULTING FROM WORK ON THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR SHALL MAKE APPROPRIATE ARRANGEMENTS FOR DISPOSAL SITES AT WHICH DEBRIS MAY BE LAWFULLY DISPOSED. NO CONSTRUCTION DEBRIS WILL BE BURIED IN ANY PIPELINE TRENCH OR OTHER PROJECT EXCAVATION
- THE CONTRACTOR HAS THE ULTIMATE RESPONSIBILITY TO LOCATE ALL UTILITIES (ABOVE AND UNDERGROUND) PRIOR TO CONSTRUCTION. ANY UTILITIES DISTURBED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE UNLESS PAYMENT IS PROVIDED IN SEPARATE ITEMS OF WORK. THE CONTRACTOR MUST CALL BLUE STAKES PRIOR TO ANY WORK REQUIRING EXCAVATION OF ANY TYPE. THE ENGINEER MAY SHOW SOME EXISTING UTILITIES ON THE PLANS FOR REFERENCE ONLY. THE LOCATIONS ARE NOT EXACT AND SHOULD ONLY BE USED FOR REFERENCE. IN ADDITION, OTHER UTILITIES MAY BE PRESENT, AND THE UTILITIES SHOWN MAY NOT ACTUALLY EXIST AT THE LOCATIONS SHOWN.
- AN EFFORT HAS BEEN MADE TO SHOW THE EXISTING SYSTEM AND THE PROPOSED IMPROVEMENTS AS ACCURATELY AS POSSIBLE. ALL PIPELINE LOCATIONS AND SIZES ARE SHOWN ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER. HOWEVER, THE ACTUAL FIELD CONDITIONS MAY VARY. ADDITIONAL WORK MAY BE REQUIRED, AND LIKEWISE, PROPOSED WORK MAY BE ELIMINATED BASED ON ACTUAL FIELD CONDITIONS. THE ADDITION OR ELIMINATION OF WORK SHALL BE DETERMINED BY THE OWNER. MINOR VARIATIONS IN ACTUAL FIELD CONDITIONS WITHIN THE PROJECT SCOPE ARE TO BE EXPECTED AND SHALL NOT WARRANT A COST INCREASE.
- THE CONTRACTOR SHALL PROTECT VENDOR SUPPLIED EQUIPMENT AND COMPONENTS FROM DAMAGE DUE TO WEATHER OR OTHER CAUSE. SENSITIVE INSTRUMENTATION AND ELECTRICAL AND ELECTRONIC EQUIPMENT SHALL BE STORED INDOORS IN A CLEAN DRY ENVIRONMENT UNTIL THEY ARE INSTALLED IN THE PROJECT.
- DURING CLEANUP ALONG CONSTRUCTION RIGHTS-OF-WAY, ROAD DRAINAGE PROFILES SHALL BE GRADED AND RESTORED. ALL ROCKS LARGER THAN 2" SHALL BE RAKED OUT AND REMOVED OR BURIED.
- BID ITEM QUANTITIES ARE ESTIMATED BY THE ENGINEER. ACTUAL QUANTITIES MAY VARY AND PAYMENT WILL BE BASED ON ACTUAL QUANTITIES INSTALLED.
- DISCOVERY AND NOTIFICATION OF CULTURAL RESOURCES AND HISTORICAL/ARCHAEOLOGICAL OBJECTS – IF A SUSPECTED OR UNSUSPECTED HISTORICAL, ARCHAEOLOGICAL, OR PALEONTOLOGICAL ITEM, FEATURE, SITE OR OTHER CULTURAL RESOURCE IS ENCOUNTERED, CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY STOPPED IN THE VICINITY OF THE DISCOVERY AND THE ENGINEER AND OWNER SHALL BE NOTIFIED OF THE NATURE AND EXACT LOCATION OF THE FINDING. THE CONTRACTOR SHALL NOT DAMAGE THE DISCOVERED OBJECTS AND SHALL PROVIDE WRITTEN CONFIRMATION OF THE DISCOVERY TO THE ENGINEER WITHIN TWO (2) CALENDAR DAYS. THE OWNER AND ENGINEER ARE REQUIRED TO IMMEDIATELY NOTIFY THE STATE HISTORICAL PRESERVATION OFFICE (SHPO) AND THE UTAH GEOLOGICAL SURVEY (UGS). THE SHPO AND UGS, WILL INVESTIGATE THE FINDING AND DETERMINE IF THE RESOURCE REQUIRES PROTECTION AND THE DISPOSITION OF THE SAID RESOURCE.


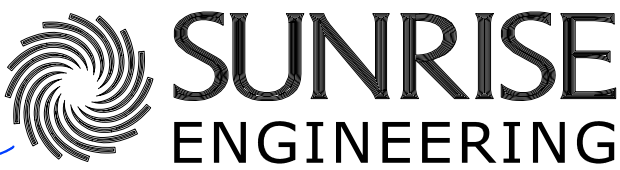
WATER NOTES

- ALL WATERLINES SHALL HAVE MINIMUM COVER OF 5 FEET AS SPECIFIED BY OWNER'S STANDARD.
- THE INSTALLATION OF VARIABLE SIZED OPENINGS IN TEES, ELBOWS, CROSSES, ETC. WHERE APPLICABLE IS AN ACCEPTABLE ALTERNATIVE TO THE USE OF REDUCERS.
- ALL BURIED DUCTILE IRON VALVES AND FITTINGS SHALL BE CAREFULLY WRAPPED OR SLEEVED WITH PLASTIC TO PREVENT CONTACT WITH SOIL DURING OR AFTER INSTALLATION, BACKFILL, AND AFTER CONSTRUCTION HAS BEEN COMPLETED. STAINLESS STEEL BOLTING HARDWARE FOR FITTINGS SHALL BE COATED WITH ANTI-SEIZE LUBRICANT AFTER TIGHTENING TO FURTHER PREVENT CORROSION.
- THE CONTRACTOR SHALL MAKE ALL CONNECTIONS TO EXISTING LINES WHERE SHOWN ON THE PLANS AND AS NEEDED TO OBTAIN A FULLY FUNCTIONAL SYSTEM.
- ALL CONNECTIONS TO EXISTING LINES ARE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE PIPELINE AND SHALL NOT BE PAID FOR SEPARATELY.
- PIPELINES THAT ARE TO BE ABANDONED SHALL BE CUT OFF AT THE SUPPLY PIPELINE OR AT THE POINT OF TIE IN TO THE NEW PIPELINES. A SECTION SHALL BE CUT OUT OF THE ABANDONED LINE AND DISPOSED. A MECHANICAL JOINT TYPE CAP WITH A MEGALUG RESTRAINT OR A BLIND FLANGE SHALL BE INSTALLED ON BOTH SIDES OF THE ABANDONED PIPE WHERE THE SECTION WAS REMOVED. A TIE-IN CONNECTION TO THE EXISTING PIPELINE MEETS THE REQUIREMENT OF A CAP. UNDER NO CIRCUMSTANCE SHALL A PIPE BE ABANDONED BY SIMPLY SHUTTING VALVES. ALL VALVE BOXES ON THE SECTION OF ABANDONED PIPELINE SHALL BE REMOVED, ANY REQUIRED EXCAVATION SHALL BE BACKFILLED AND ASPHALT PATCHED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- DURING CONSTRUCTION AND TESTING OF THE CULINARY WATER DISTRIBUTION SYSTEM, THE CONTRACTOR SHALL PROVIDE EACH RESIDENT ON THE AFFECTED STREET AT LEAST A 24 HOUR NOTICE BEFORE TAKING THE CULINARY WATER SYSTEM ON THAT STREET OUT OF SERVICE.
- DURING CONSTRUCTION, SITE WATERING SHALL BE PERFORMED BY THE CONTRACTOR AS REQUIRED TO MINIMIZE FUGITIVE DUST. THE CONTRACTOR IS REQUIRED TO METER ALL WATER TAKEN OUT OF THE EXISTING CULINARY WATER SYSTEM FOR CONSTRUCTION. HOWEVER, THE OWNER WILL NOT CHARGE THE CONTRACTOR FOR WATER REQUIRED FOR CONSTRUCTION AND TESTING OR USE ON THE PROJECT.
- ALL CONNECTIONS TO POLYETHYLENE SERVICE LATERAL TUBING FROM THE CORPORATION STOP AT THE MAINLINE TO THE METER SETTER AT THE SERVICE METER SETTER, INCLUDING SPLICES TO EXISTING POLYETHYLENE TUBING SHALL BE MADE USING MUELLER INSTATITE OR APPROVED EQUAL CONNECTORS. THE CONTRACTOR SHALL INSTALL ADAPTERS TO FACILITATE CONNECTION TO SETTERS AND CORPORATION STOPS AS NEEDED.
- SERVICE LATERAL TUBING SHALL BE INSTALLED UNDER ROADWAYS BY PULLING OR BY MISSILING. ROADWAYS SHALL NOT BE OPEN CUT FOR SERVICE LATERAL INSTALLATION UNLESS APPROVED OTHERWISE BY THE ENGINEER ON A CASE BY CASE BASIS.
- ALL FITTINGS, NIPPLES, CONNECTORS, ETC. USED IN SERVICE CONNECTIONS SHALL BE BRASS OR STAINLESS STEEL. NO PVC, BLACK IRON, OR GALVANIZED FITTINGS OR NIPPLES SHALL BE USED.
- SERVICE LATERALS SMALLER THAN 1 INCH, THAT WILL BE CONNECTED TO NEW PIPELINES, SHALL BE UPGRADED TO 1 INCH SDR9 CTS POLY SERVICE LATERALS OR AS SPECIFIED PER THE MIDWAY STANDARD DETAILS. SERVICES THAT ARE 1 INCH OR LARGER THAT WILL BE CONNECTED TO NEW PIPELINES SHALL REMAIN THE SAME SIZE UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- BOTH MEGALUGS AND CONCRETE THRUST BLOCKS SHALL BE USED AT ALL LOCATIONS WHERE RESTRAINING SYSTEMS ARE REQUIRED. ALL MEGALUGS SHALL HAVE STAINLESS STEEL OR EPOXY BOLTS.
- METER SETTERS AND BARRELS WHICH ARE LOCATED OUTSIDE OF CITY ROW SHALL BE RELOCATED TO THE PROPERTY LINE.
- AT THE TIME OF COMPLETION OF ALL WORK, THE CONTRACTOR SHALL INSPECT AND CYCLE ALL VALVES IN THE SYSTEM TO ENSURE THAT THEY ARE IN THE CORRECT POSITION AND THAT THE VALVES WORK PROPERLY. THIS INCLUDES EXISTING VALVES THAT WERE NOT REPLACED AS PART OF THE PROJECT AND EXISTING AND NEW FIRE HYDRANT VALVES.
- ALL WATER MAINS SHALL BE FILLED, PRESSURE TESTED, AND DISINFECTED IN ACCORDANCE WITH SPECIFICATIONS AND/OR LOCAL/STATE REGULATIONS.

SEWER NOTES

- CONTRACTOR IS TO FIELD VERIFY LOCATIONS, INVERT ELEVATIONS, AND MATERIALS OF ALL EXISTING SEWER PIPES OR MANHOLES AT TIE-IN POINTS PRIOR TO COMMENCING ANY NEW SEWER CONSTRUCTION. SHOULD ANY LOCATION, ELEVATION, OR MATERIAL DIFFER FROM THAT SHOWN ON THESE PLANS, CONTRACTOR IS TO CONTACT ENGINEER FOR DIRECTION.
- ALL PIPELINES SHALL BE INSTALLED AT LOCATIONS AND DEPTH REQUIRED ON THE PLANS AND/OR AS OTHERWISE DIRECTED BY ENGINEER. CONTRACTOR SHALL NOT MOVE THE PLANNED ALIGNMENT OF ANY IMPROVEMENTS WITHOUT THE WRITTEN CONSENT OF BOTH ENGINEER AND OWNER. STANDARD OFFSET DISTANCES FROM OTHER EXISTING UTILITIES SHALL BE MAINTAINED DURING CONSTRUCTION OF NEW LINES.
- THE INLET AND OUTLET PIPE CONNECTIONS TO MANHOLES SHALL BE CONSTRUCTED BY USE OF FLEXIBLE COMPRESSION JOINTS NO CLOSER THAN 12 INCHES TO, AND NO FARTHER THAN 36 INCHES FROM, THE MANHOLE WALL. NO FLEXIBLE COMPRESSION JOINTS SHALL BE EMBEDDED IN THE MANHOLE BASE OR BENCH.
- SEWER PIPE JOINT DEFLECTION SHALL NOT EXCEED PIPE MANUFACTURER'S RECOMMENDATION. PIPES SHALL NOT BE DEFLECTED AT JOINTS UNLESS CALLED FOR IN THESE PLANS.
- ALL TESTS REQUIRED BY THE PROJECT SPECIFICATIONS SHALL BE PERFORMED IN THE PRESENCE OF OWNER/ENGINEER OR THEIR REPRESENTATIVE. ANY PIPE SEGMENT OR STRUCTURE FAILING TO PASS A TEST SHALL BE CORRECTED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- ALL EXFILTRATION, INFILTRATION AND AIR TESTING OF LINES SHALL BE IN ACCORDANCE WITH OWNER STANDARDS.
- UNLESS OTHERWISE SPECIFIED, FLOWABLE BACKFILL SHALL BE USED WHERE VERTICAL SEPARATION BETWEEN PIPES IS 9 INCHES OR LESS.
- WHEN ADJUSTING MANHOLES, CONTRACTOR SHALL INSTALL PLYWOOD COVERS IN SANITARY SEWER MANHOLE INVERTS AS WELL AS STEEL PLATE COVERS OVER MANHOLES (AFTER MANHOLE RINGS/FRAMES ARE REMOVED) TO PREVENT DEBRIS FROM ENTERING SEWER MANHOLES AND CORRESPONDING LINES. DEBRIS IN MANHOLES SHALL BE REMOVED PRIOR TO PLYWOOD REMOVAL.
- PLYWOOD AND STEEL COVERS FOR MANHOLES SHALL BE INSTALLED AND REMOVED IN THE PRESENCE OF OWNERS REPRESENTATIVE. ALL DEBRIS DROPPED INTO THE SEWER MANHOLES AND CORRESPONDING LINES SHALL BE RETRIEVED AT CONTRACTOR'S EXPENSE. CONTRACTOR SHALL CLEAN (E.G., JET VAC OR EQUIVALENT) DEBRIS OUT OF THE AFFECTED MANHOLES AND/OR SEWER LINES IN THE PRESENCE OF OWNER REPRESENTATIVE.



REV. NO.	COMMENT	DATE			
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<p>MIDWAY CITY</p> <p>NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS</p> <p>STANDARD NOTES</p>					
SEI NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	G4
S10315	KRM	KRM	DSA	4	

PROJECT NOTES

1. ALL WORK PERFORMED IN MIDWAY CITY SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE MIDWAY CITY STANDARD SPECIFICATIONS AND DRAWINGS.
2. ALL MATERIALS, GRADING, EARTHWORK, ETC. SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE MIDWAY CITY STANDARD SPECIFICATIONS.
3. CONTRACTOR SHALL PROVIDE ALL CONNECTIONS, FITTINGS, HARDWARE, ETC. TO INSTALL A COMPLETE, FUNCTIONING SYSTEM AND SHALL INCLUDE ALL SUCH MISCELLANEOUS MATERIALS IN THE COST OF THE VARIOUS BID ITEMS.
4. CONTRACTOR TO PREVENT DIRT AND FOREIGN MATTER FROM ENTERING MANHOLES, CATCH BASINS, INLETS, PIPE, ETC. THROUGHOUT DURATION OF CONSTRUCTION.
5. CONTRACTOR SHALL USE EXTREME CAUTION TO AVOID A CONFLICT, CONTACT OR DAMAGE TO EXISTING UTILITIES, SUCH AS POWER LINES, SEWER LINES, STORM DRAINS, STREET LIGHTS, TELEPHONE LINES, TELEVISION LINES, WATER LINES, POLES OR OTHER APPURTENANCES DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. ANY SUCH CONFLICT, CONTACT OR DAMAGE SHALL BE IMMEDIATELY COMMUNICATED TO THE PUBLIC WORKS DEPARTMENT.
6. CONTRACTOR MAY SECURE PICTURES OF THE CONDITIONS OF THE EXISTING PUBLIC RIGHT-OF-WAY IMPROVEMENTS SUCH AS CURBING, SIDEWALK, LANDSCAPING, ASPHALT SURFACES, ETC. IN THE EVENT THAT PUBLIC RIGHT-OF-WAY IMPROVEMENTS ARE DAMAGED AND NO PICTURES ARE TAKEN, THE PUBLIC WORKS DEPARTMENT WILL ASSUME THE CORRECTION OF THE DAMAGE IS THE RESPONSIBILITY OF THE CONTRACTOR.
7. NO EXCAVATIONS OR STREET CUTS SHALL BE PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY WITHOUT FIRST OBTAINING A PERMIT FROM THE CITY. CUT PERMITS SHALL BE VALID FOR A PERIOD OF 60 DAYS. SUCH PERMITS SHALL BE ISSUED BY THE CITY UPON THE APPLICANT MEETING THE CONDITIONS AND MAKING THE COMMITMENTS AS SHOWN ON THE STANDARD CITY CUT PERMIT DRAWING.
8. ALL UTILITY LOCATIONS ARE APPROXIMATE. PRIOR TO COMMENCING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING BLUE STAKES FOR LOCATION OF ALL UTILITIES. 1-800-662-4111.
9. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR LOCATION OF SERVICE AND/OR RELOCATION OF UTILITIES IN CONFLICT WITH PROPOSED CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF UTILITIES, POWER POLES, ETC.
10. MIDWAY CITY REQUIRES THAT THE CONTRACTOR WORKING IN THE CITY RIGHT-OF-WAY, POT HOLE FOR ANY EXISTING UTILITIES THAT MAY BE IN THE AREA BEFORE ANY OTHER EXCAVATION BEGIN.
9. BEFORE COMMENCING WORK ON THE STATE HIGHWAY, THE CONTRACTOR IS REQUIRED TO OBTAIN AN ENCROACHMENT PERMIT ACCOMPANIED BY A TRAFFIC CONTROL PLAN FROM THE APPLICABLE REGION'S PERMITS OFFICE BEFORE WORKING WITHIN THE STATE RIGHT-OF-WAY.
10. IN ORDER TO AVOID UNNECESSARY DAMAGE TO PAVED SURFACES, BACKHOES, OUTRIGGERS, TRACK EQUIPMENT OR ANY OTHER CONSTRUCTION EQUIPMENT THAT MAY PROVE DAMAGING TO ASPHALT SHALL USE RUBBER CLEATS OR PAVING PAD WHEN OPERATING ON OR CROSSING SAID SURFACES.
11. NO EXCAVATION OF ANY KIND SHALL BE LEFT OPEN OVERNIGHT.
12. CONTRACTOR IS RESPONSIBLE TO VERIFY TIE IN POINTS TO EXISTING IMPROVEMENTS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER 5 WORKING DAYS PRIOR TO CONSTRUCTION IF EXISTING CONDITIONS ARE DIFFERENT FROM WHAT IS SHOWN ON THESE PLANS. CONTRACTOR SHALL COORDINATE FIELD MODIFICATIONS WITH OWNER PRIOR TO MAKING SUCH MODIFICATIONS IN THE FIELD.
13. ANY AMBIGUITIES, DISCREPANCIES, OBSTRUCTIONS, DEFICIENCIES, ETC. DISCOVERED ON THESE PLANS OR WITH THE PROPOSED IMPROVEMENTS ARE TO BE RESOLVED BY ENGINEER OR ITS APPOINTED REPRESENTATIVE. IF ANYONE OTHER THAN ENGINEER OR ITS APPOINTED REPRESENTATIVE MAKE ANY MODIFICATIONS, THEY ARE SOLELY RESPONSIBLE FOR THOSE MODIFICATIONS.
14. ANY EXISTING ITEM REMOVED TO FACILITATE CONSTRUCTION SHALL BE REPLACED IN THE SAME OR BETTER CONDITION AT CONTRACTOR'S EXPENSE.

DESIGN CRITERIA

1. INTRODUCTION
SUNRISE ENGINEERING IS UNDER CONTRACT WITH MIDWAY CITY FOR WATER AND SEWER SYSTEM IMPROVEMENTS ALONG NORTH CENTER STREET FROM 600 NORTH TO MAIN STREET, AND FROM BURGI LANE TO ALFALFA CIRCLE RESPECTIVELY.
- 2 WATER SYSTEM IMPROVEMENTS
THE PURPOSE OF THIS PROJECT IS TO REPLACE THE EXISTING 8" WATER MAIN WITH A NEW 10" PVC C900 DR18 WATER MAIN.
- 3 SEWER SYSTEM IMPROVEMENTS
THE PURPOSE OF THIS PROJECT IS TO SLIP-LINE THE EXISTING SEWER MAIN.



REV. NO.	COMMENT	DATE

JOHN O. KEYSER
12894496-2202
12-2-24
STATE OF UTAH

SUNRISE ENGINEERING

1180 N MOUNTAIN SPRING PKWY
SPRINGVILLE, UTAH 84663
TEL 801.704.5220
www.sunrise-eng.com

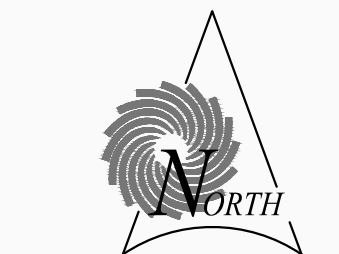
MIDWAY CITY

NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS

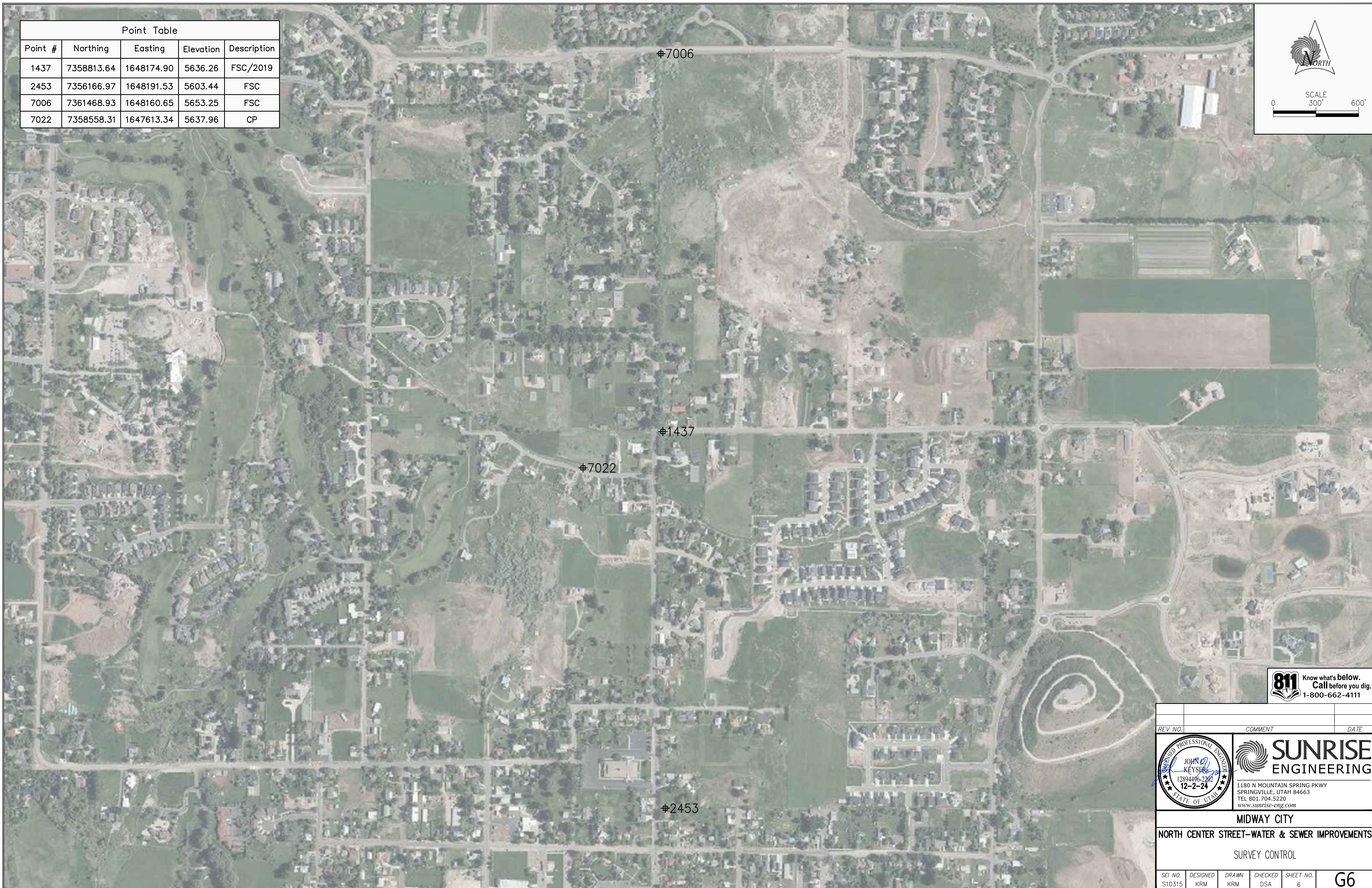
PROJECT NOTES & DESIGN CRITERIA

SEI NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	G5
S10315	KRM	KRM	DSA	5	

Point Table				
Point #	Northing	Easting	Elevation	Description
1437	7358813.64	1648174.90	5636.26	FSC/2019
2453	7356166.97	1648191.53	5603.44	FSC
7006	7361468.93	1648160.65	5653.25	FSC
7022	7358558.31	1647613.34	5637.96	CP



SCALE
0 300' 600'



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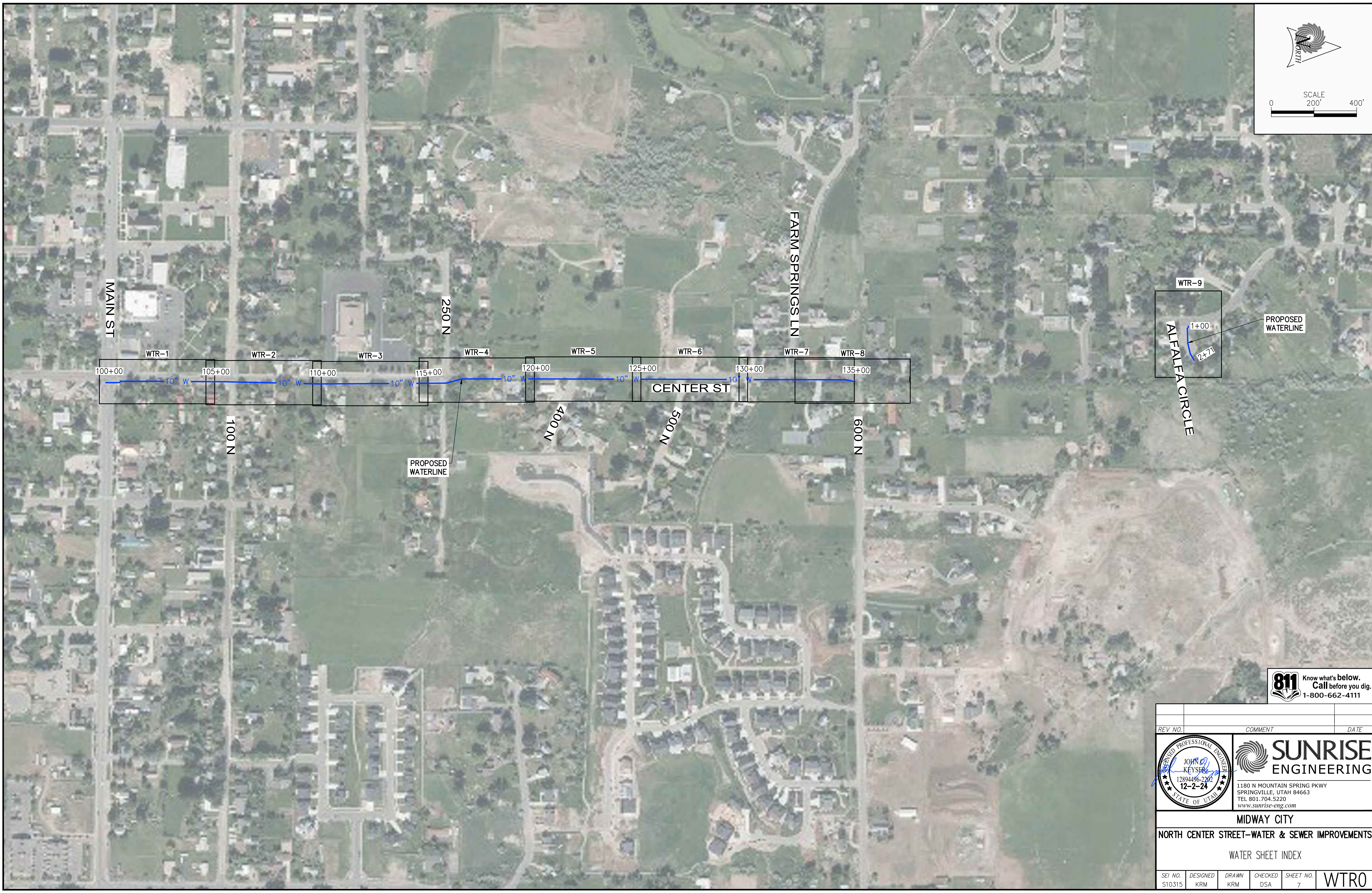
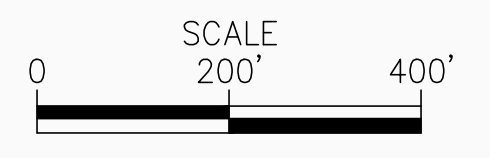
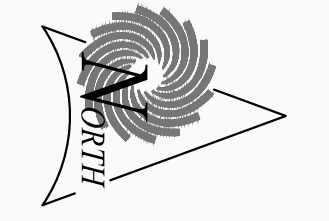
REV. NO.	COMMENT	DATE

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MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
SURVEY CONTROL

SEI NO. S10315	DESIGNED KRM	DRAWN KRM	CHECKED DSA	SHEET NO. 6	G6
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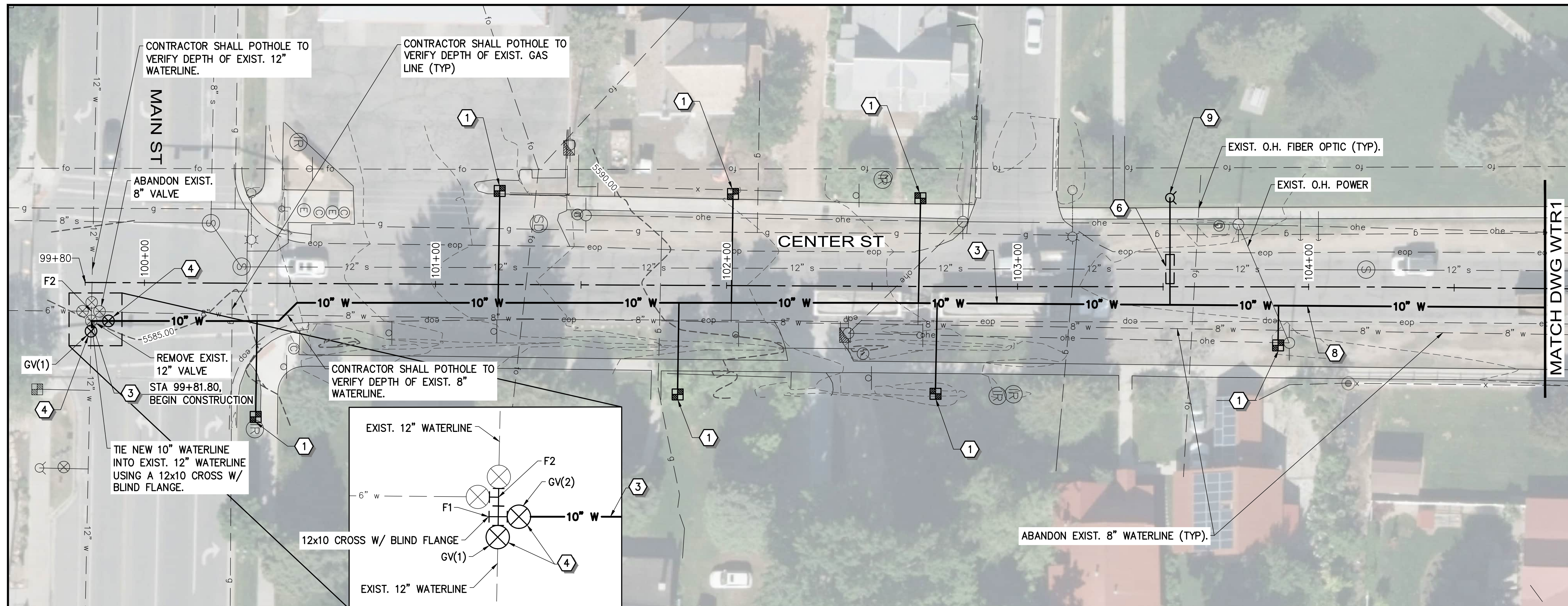
811 Know what's below.
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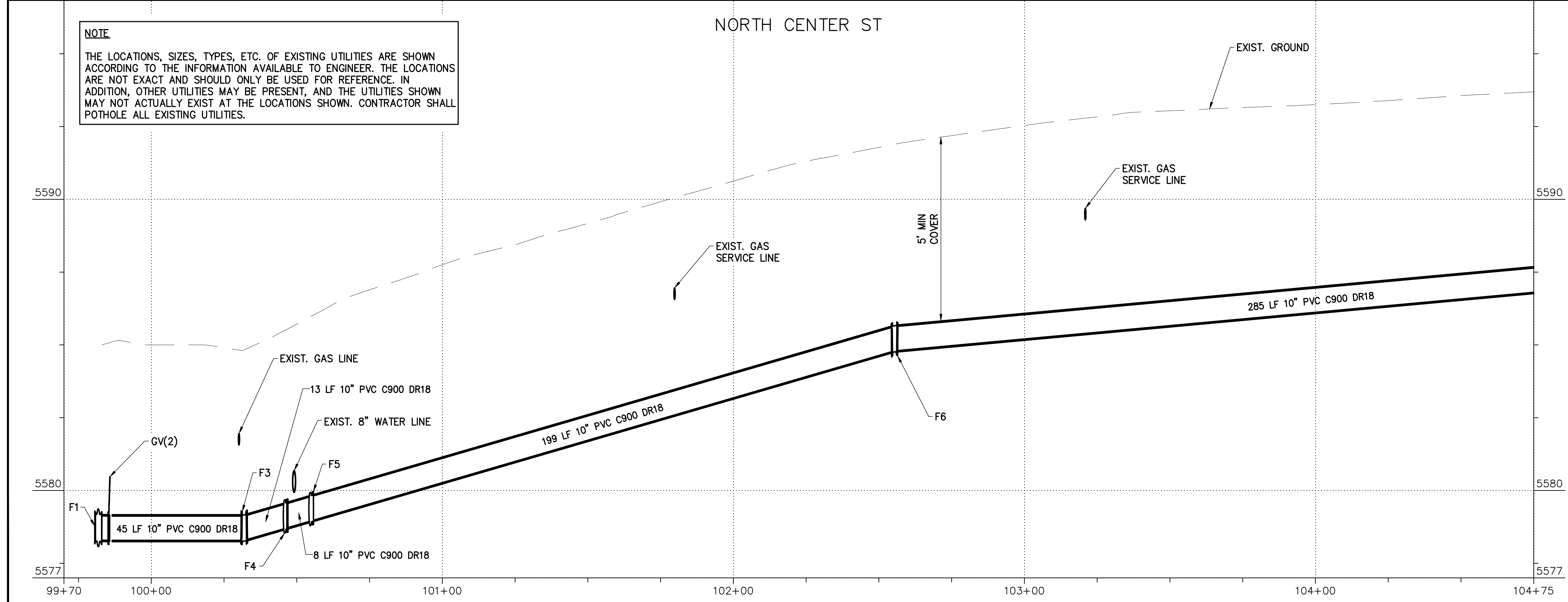
SUNRISE ENGINEERING
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MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
WATER SHEET INDEX

SEI NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	
S10315	KRM	KRM	DSA	7	WTR0



- CONSTRUCTION NOTES**
- ① WATER SERVICE CONNECTION – SEE DETAIL W5, SHEET D4.
 - ② 8" PVC C900 DR18 WATERLINE. TRENCH CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAIL U1, SHEET D1 & DETAIL U5, SHEET D2.
 - ③ 10" PVC C900 DR18 WATERLINE. TRENCH CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAIL U1, SHEET D1 & DETAIL U5, SHEET D2.
 - ④ GATE VALVE, SIZE SHALL MATCH PIPE DIAMETER. SEE DETAIL W3, SHEET D4.
 - ⑤ REMOVE EXISTING HYDRANT AND INSTALL NEW FIRE HYDRANT ASSEMBLY – SEE DETAIL W1, SHEET D2.
 - ⑥ SPECIAL CONSTRUCTION AREA – SEE DETAIL A, SHEET D6.
 - ⑦ EXISTING WATERLINE SHALL BE CUT, CAPPED, & ABANDONED IN PLACE.
 - ⑧ CLAY CUTOFF WALL – SEE DETAIL B, SHEET D6.
 - ⑨ INSTALL NEW FIRE HYDRANT ASSEMBLY – SEE DETAIL W1, SHEET D2.
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 3. GATE VALVES SHALL BE DUCTILE IRON BODY, BRONZE MOUNTED, DOUBLE DISC, PARALLEL SEAT, NON-RISING STEM DESIGN WITH "O" RING SEALS AND CONFORM TO THE REQUIREMENTS OF AWWA C-500.
 4. MAINTAIN A MINIMUM COVER OF 5' UNLESS OTHERWISE SPECIFIED IN THE PLANS.
 5. TRACE WIRE REQUIRED TO BE INSTALLED ON ALL NEW LINES – SEE DETAIL W4, SHEET D3.
 6. AVOID HIGH POINTS BY MAINTAINING A CONSTANT SLOPE DIRECTION.
 7. ALL FITTINGS AT BENDS AND BRANCHES IN WATER PIPE LINES SHALL BE PROVIDED WITH CONCRETE THRUST BLOCKING – SEE DETAIL W2, SHEET D3.
 8. WATERLINE SHALL BE INSTALLED A MINIMUM OF 18 INCHES ABOVE SEWER LINES AND 10 FEET AWAY HORIZONTALLY OR IS CONSIDERED AN AREA OF SPECIAL CONSTRUCTION – SEE DETAIL A, SHEET D6.
 9. POT ROCK MAY BE ENCOUNTERED.
 10. GROUNDWATER MAY BE ENCOUNTERED.
 11. REFER TO SHEET T1 FOR FITTING AND VALVE TABLES.



SCALE
0 20' 40'

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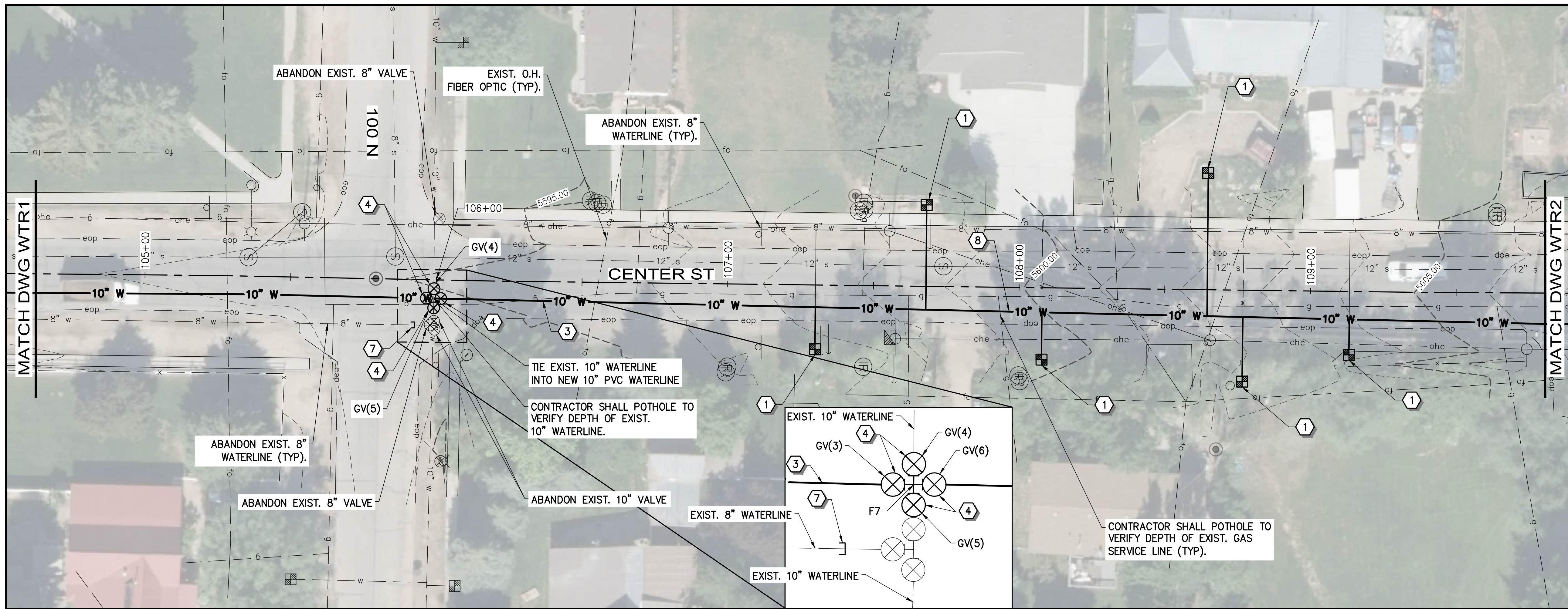
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JOHN E. KEYSER
12894496-2202
12-2-24
STATE OF UTAH

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MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
WATER PLAN & PROFILE

SEI NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	TITLE
S10315	KRM	KRM	DSA	8	WTR1

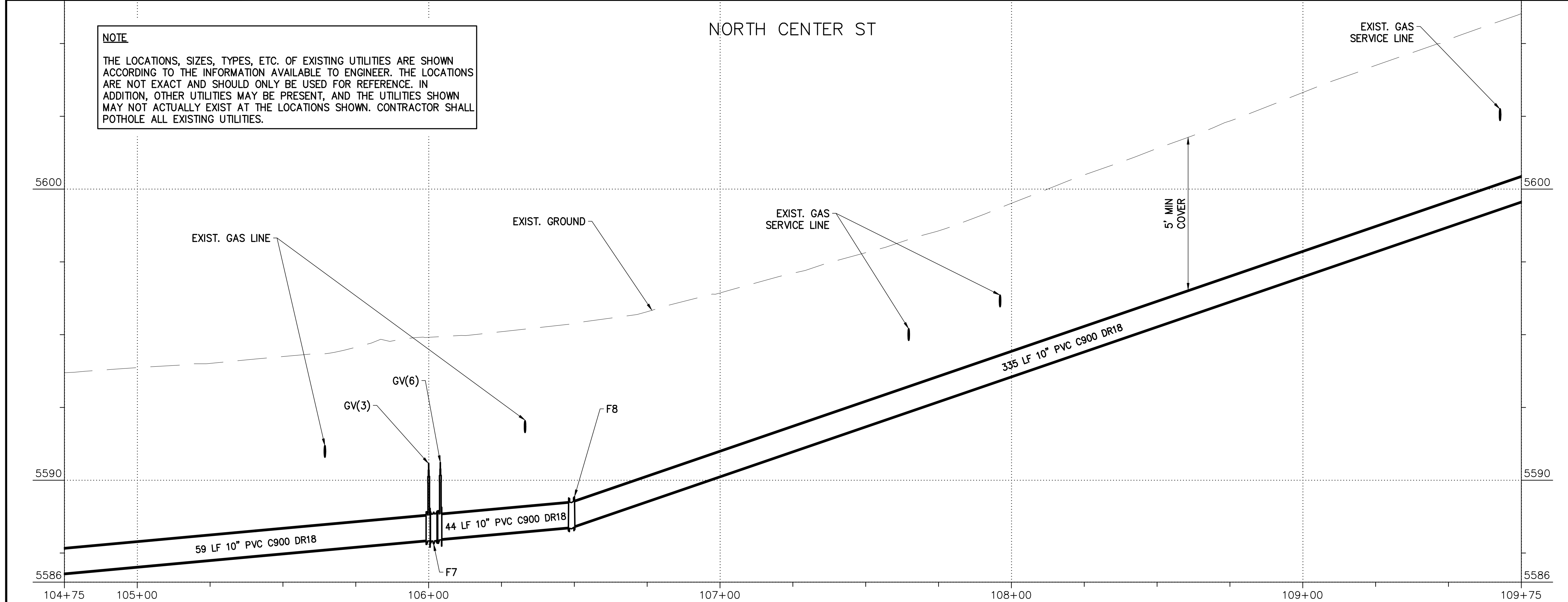


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SCALE 20' = 40'

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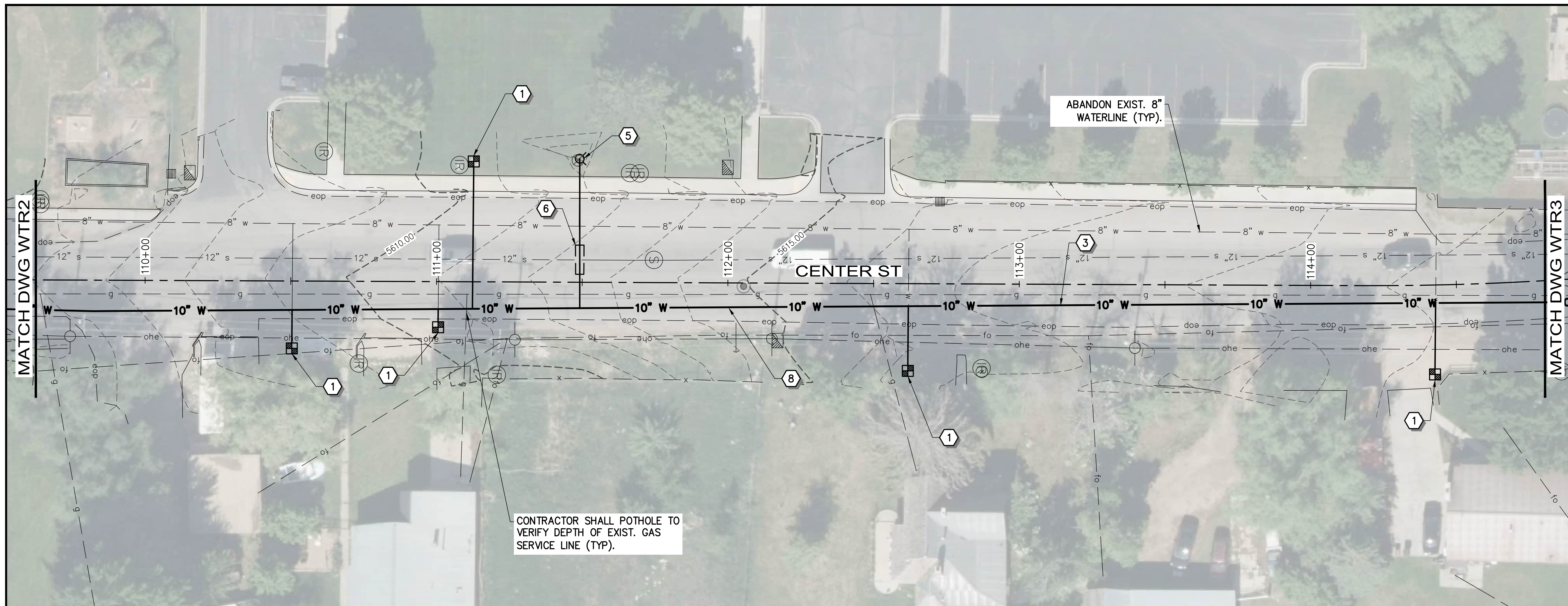
JOHN KEYSER
 12894496-2202
 12-2-24
 STATE OF UTAH

SUNRISE ENGINEERING
 1180 N MOUNTAIN SPRING PKWY
 SPRINGVILLE, UTAH 84663
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MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
 WATER PLAN & PROFILE

SEI NO. S10315	DESIGNED KRM	DRAWN KRM	CHECKED DSA	SHEET NO. 9	WTR2
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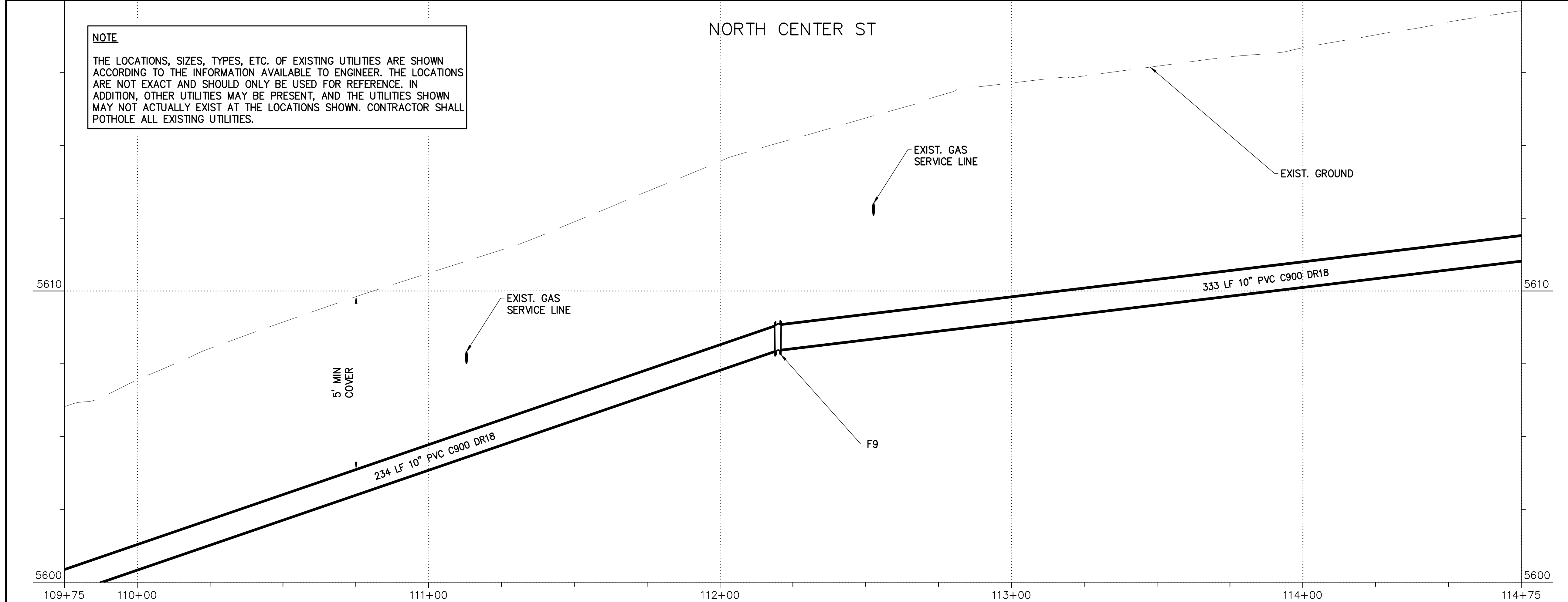


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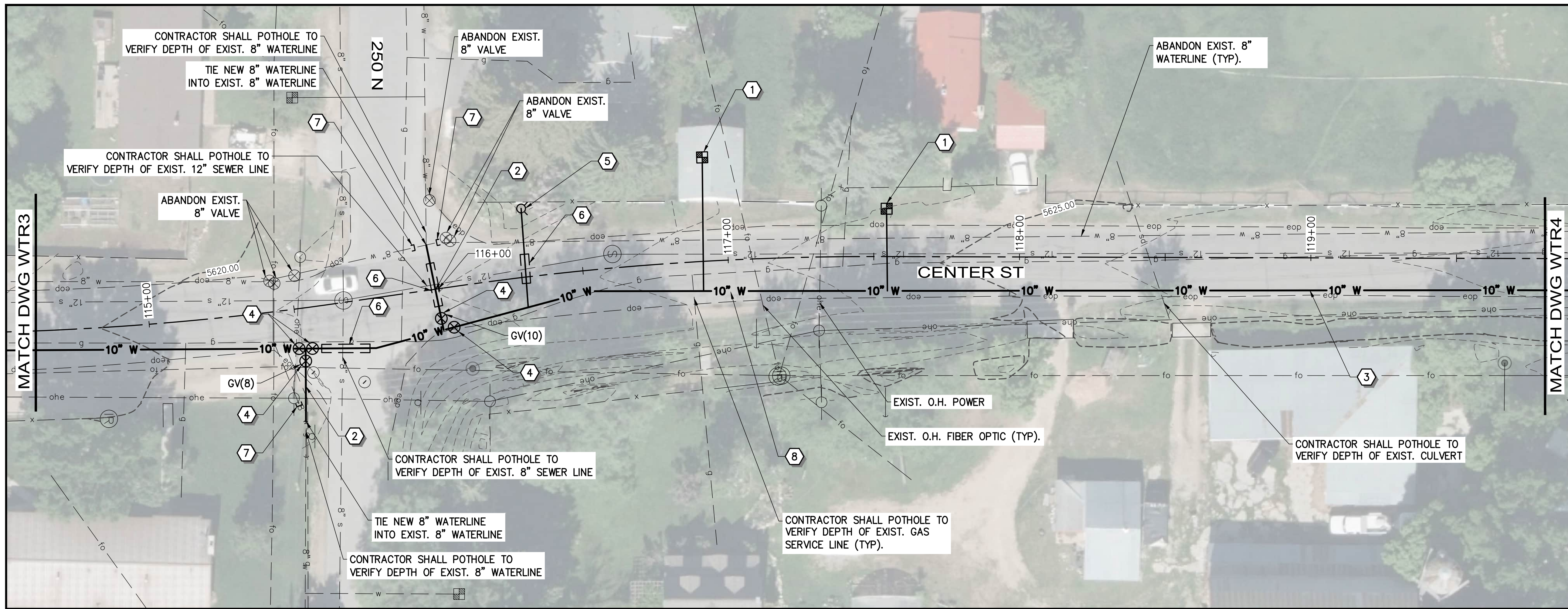
REV. NO.	COMMENT	DATE

JOHN KEYSER
 12894496-2202
 12-2-24
 STATE OF UTAH

SUNRISE ENGINEERING
 1180 N MOUNTAIN SPRING PKWY
 SPRINGVILLE, UTAH 84663
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MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
 WATER PLAN & PROFILE

SEI NO. S10315	DESIGNED KRM	DRAWN KRM	CHECKED DSA	SHEET NO. 10	WTR3
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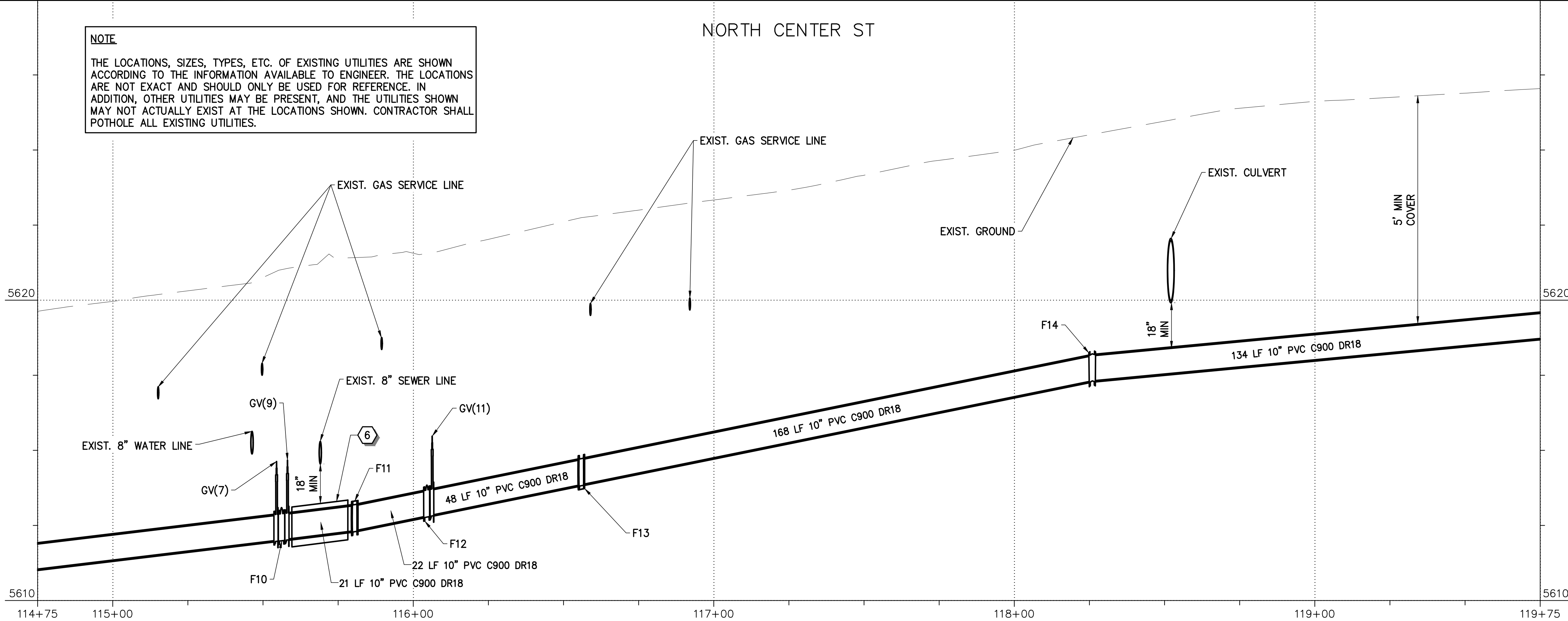
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NORTH CENTER ST



SCALE
 20' = 1"

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REV. NO.	COMMENT	DATE

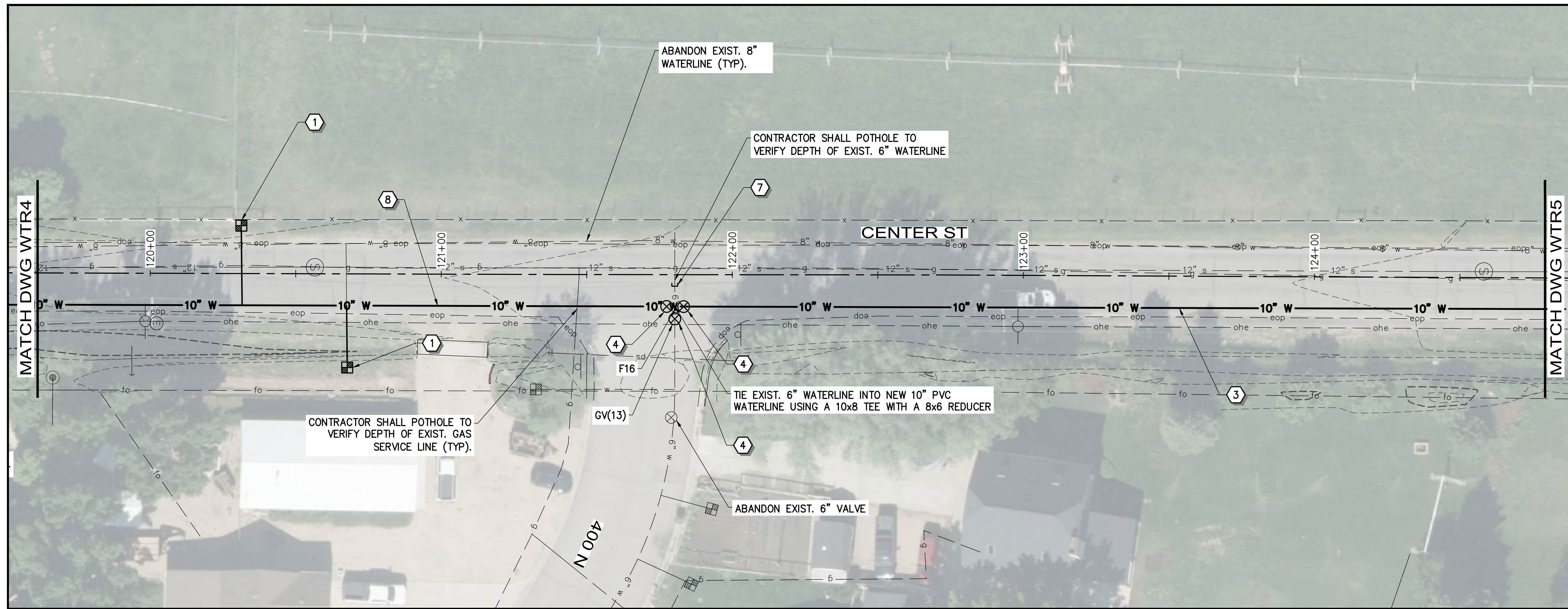
REGISTERED PROFESSIONAL ENGINEER
 JOHN E. KEYSER
 12894496-2202
 12-2-24
 STATE OF UTAH

SUNRISE ENGINEERING

1180 N MOUNTAIN SPRING PKWY
 SPRINGVILLE, UTAH 84663
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MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
 WATER PLAN & PROFILE

SEI NO. S10315	DESIGNED KRM	DRAWN KRM	CHECKED DSA	SHEET NO. 11	WTR4
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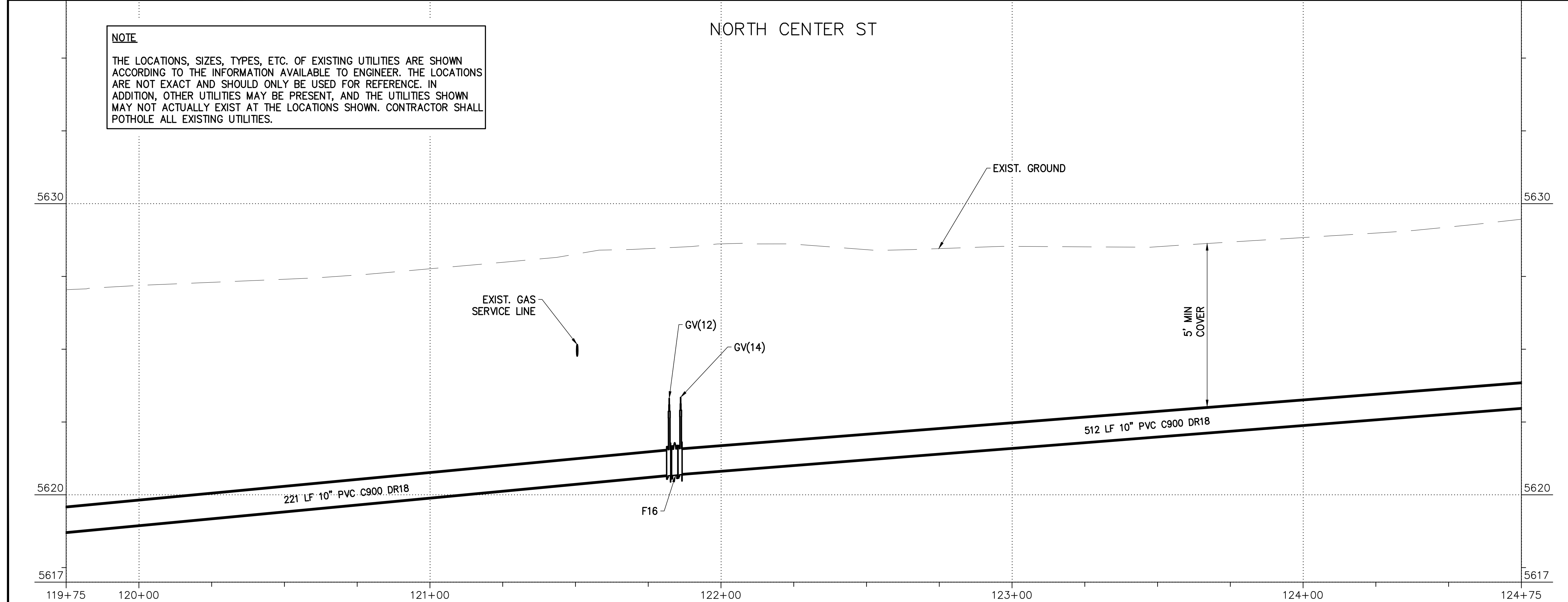


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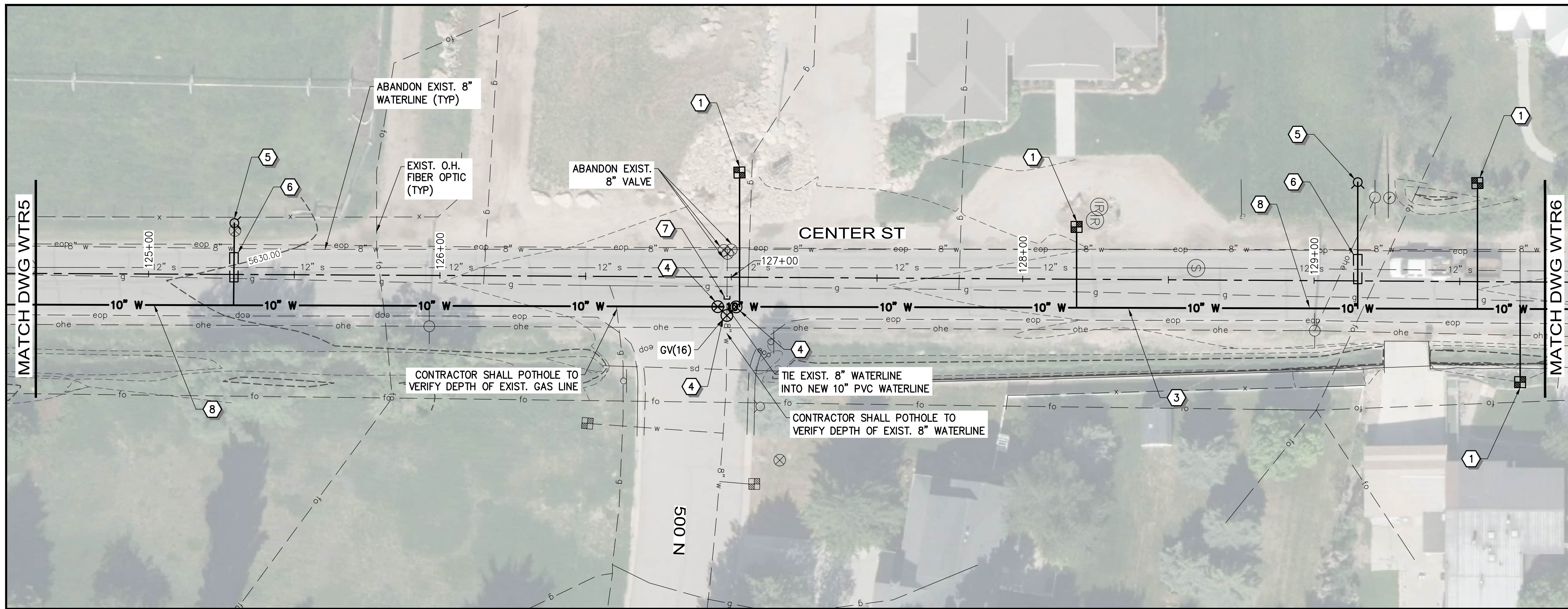
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SUNRISE ENGINEERING 1180 N MOUNTAIN SPRING PKWY SPRINGVILLE, UTAH 84663 TEL 801.704.5220 www.sunrise-eng.com		
MIDWAY CITY NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS WATER PLAN & PROFILE		
SEI NO. S10315	DESIGNED KRM	DRAWN KRM
CHECKED DSA	SHEET NO. 12	WTR5



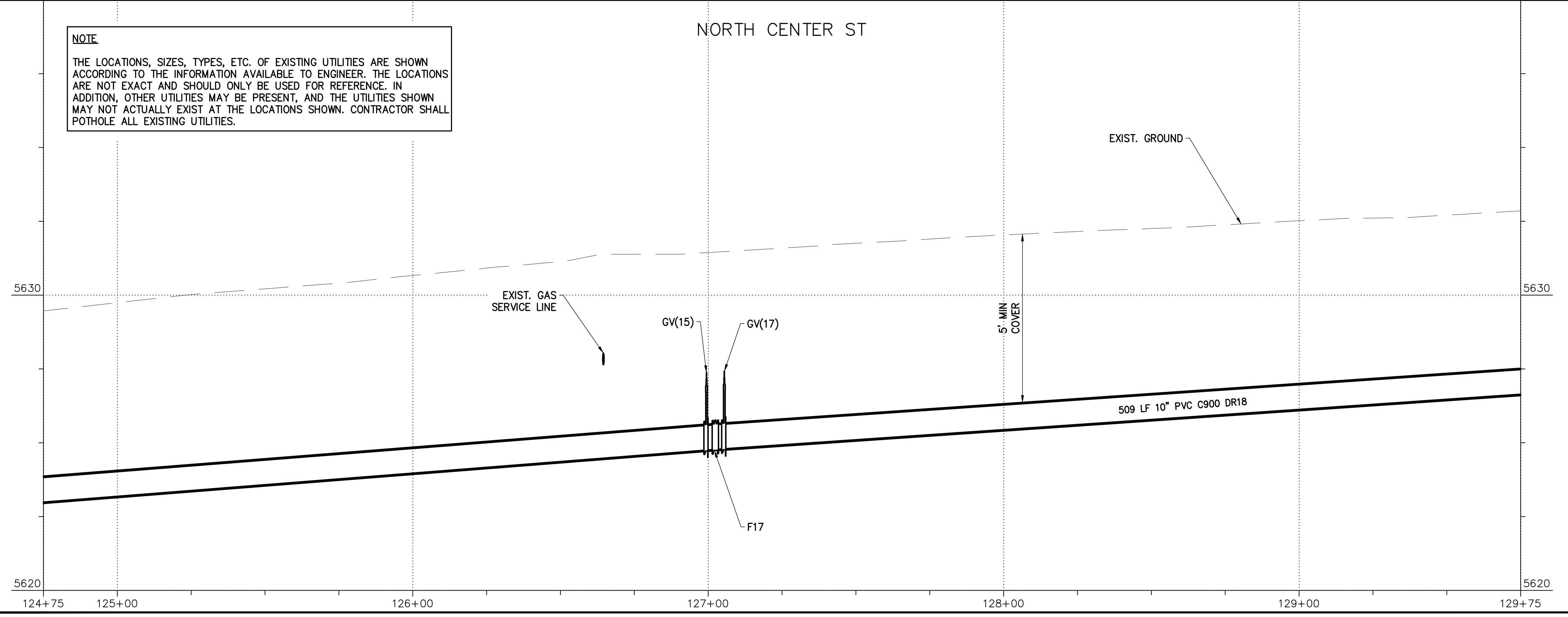
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- ④ GATE VALVE, SIZE SHALL MATCH PIPE DIAMETER. SEE DETAIL W3, SHEET D4.
- ⑤ REMOVE EXISTING HYDRANT AND INSTALL NEW FIRE HYDRANT ASSEMBLY – SEE DETAIL W1, SHEET D2.
- ⑥ SPECIAL CONSTRUCTION AREA – SEE DETAIL A, SHEET D6.
- ⑦ EXISTING WATERLINE SHALL BE CUT, CAPPED, & ABANDONED IN PLACE.
- ⑧ CLAY CUTOFF WALL – SEE DETAIL B, SHEET D6.
- ⑨ INSTALL NEW FIRE HYDRANT ASSEMBLY – SEE DETAIL W1, SHEET D2.

- NOTES:
- 1. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND DEPTHS OF CROSSING UTILITIES AND SEQUENCE CONSTRUCTION SO AS TO ENSURE VERTICAL CLEARANCE OF CROSSING UTILITIES.
 - 2. ALL MATERIALS WHICH MAY CONTACT DRINKING WATER, INCLUDING PIPES, GASKET, LUBRICANTS AND O-RINGS, SHALL BE NSF STANDARD 61 CERTIFIED.
 - 3. GATE VALVES SHALL BE DUCTILE IRON BODY, BRONZE MOUNTED, DOUBLE DISC, PARALLEL SEAT, NON-RISING STEM DESIGN WITH "O" RING SEALS AND CONFORM TO THE REQUIREMENTS OF AWWA C-500.
 - 4. MAINTAIN A MINIMUM COVER OF 5' UNLESS OTHERWISE SPECIFIED IN THE PLANS.
 - 5. TRACE WIRE REQUIRED TO BE INSTALLED ON ALL NEW LINES – SEE DETAIL W4, SHEET D3.
 - 6. AVOID HIGH POINTS BY MAINTAINING A CONSTANT SLOPE DIRECTION.
 - 7. ALL FITTINGS AT BENDS AND BRANCHES IN WATER PIPE LINES SHALL BE PROVIDED WITH CONCRETE THRUST BLOCKING – SEE DETAIL W2, SHEET D3.
 - 8. WATERLINE SHALL BE INSTALLED A MINIMUM OF 18 INCHES ABOVE SEWER LINES AND 10 FEET AWAY HORIZONTALLY OR IS CONSIDERED AN AREA OF SPECIAL CONSTRUCTION – SEE DETAIL A, SHEET D6.
 - 9. POT ROCK MAY BE ENCOUNTERED.
 - 10. GROUNDWATER MAY BE ENCOUNTERED.

NOTE
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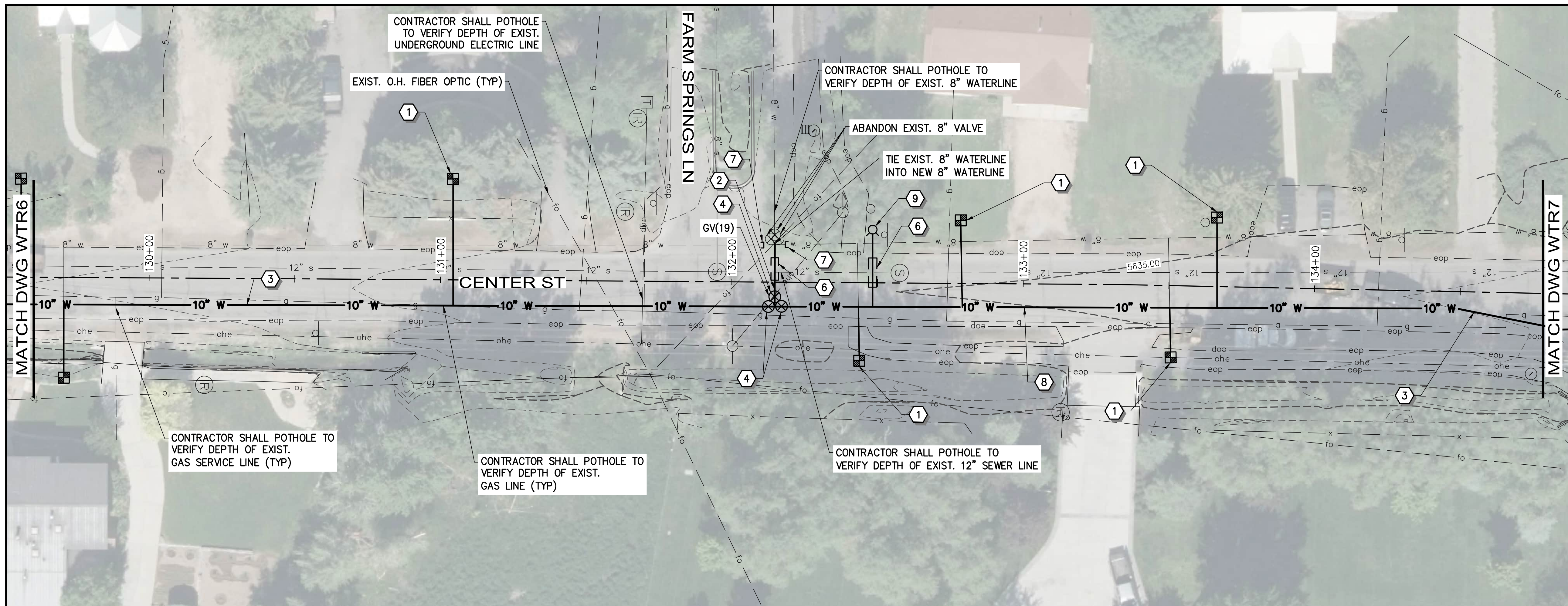
NORTH CENTER ST



SCALE
 20'
 0 40'

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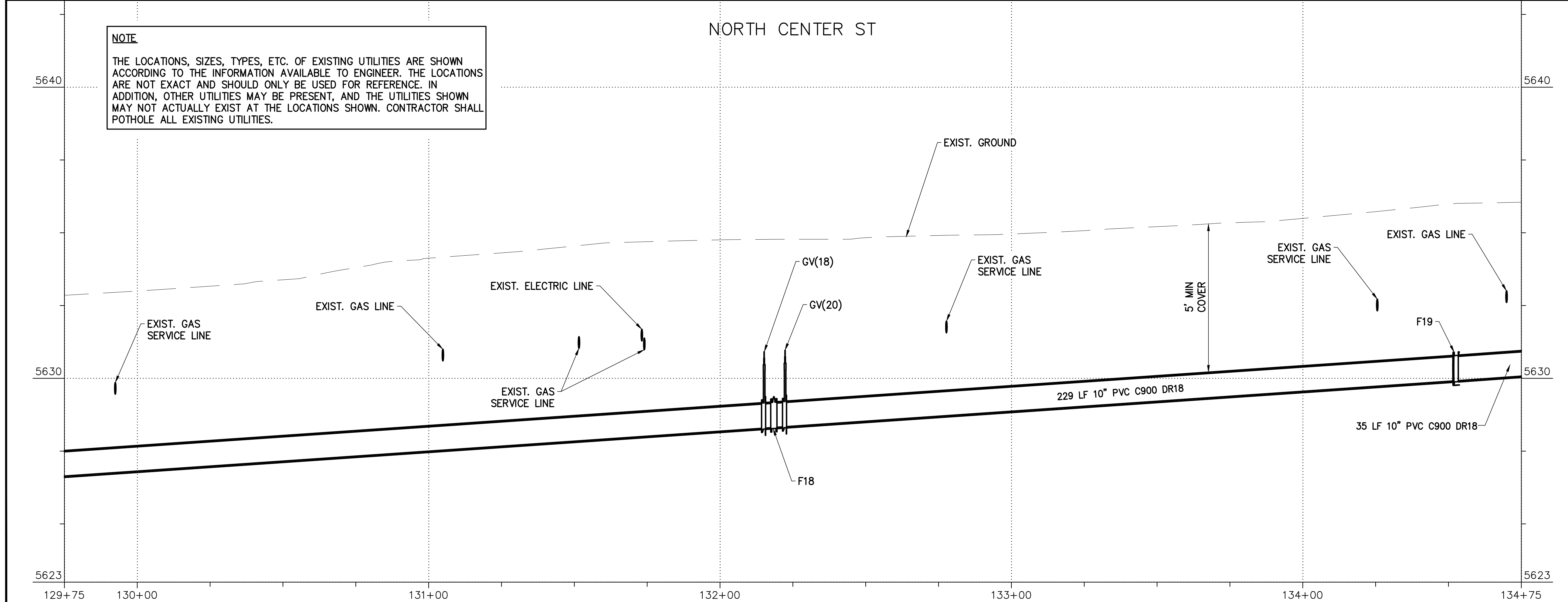
REV. NO.	COMMENT	DATE
<p>SUNRISE ENGINEERING</p> <p>1180 N MOUNTAIN SPRING PKWY SPRINGVILLE, UTAH 84663 TEL 801.704.5220 www.sunrise-eng.com</p>		
<p>MIDWAY CITY</p> <p>NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS</p> <p>WATER PLAN & PROFILE</p>		
SEI NO. S10315	DESIGNED KRM	DRAWN KRM
CHECKED DSA	SHEET NO. 13	WTR6



CONSTRUCTION NOTES

- ① WATER SERVICE CONNECTION – SEE DETAIL W5, SHEET D4.
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SCALE 20' = 1"

0 20' 40'

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REV NO.	COMMENT	DATE

PROFESSIONAL ENGINEER

JOHN KEYSER

12894496-2202

12-2-24

STATE OF UTAH

SUNRISE ENGINEERING

1180 N MOUNTAIN SPRING PKWY
 SPRINGVILLE, UTAH 84663
 TEL 801.704.5220
 www.sunrise-eng.com

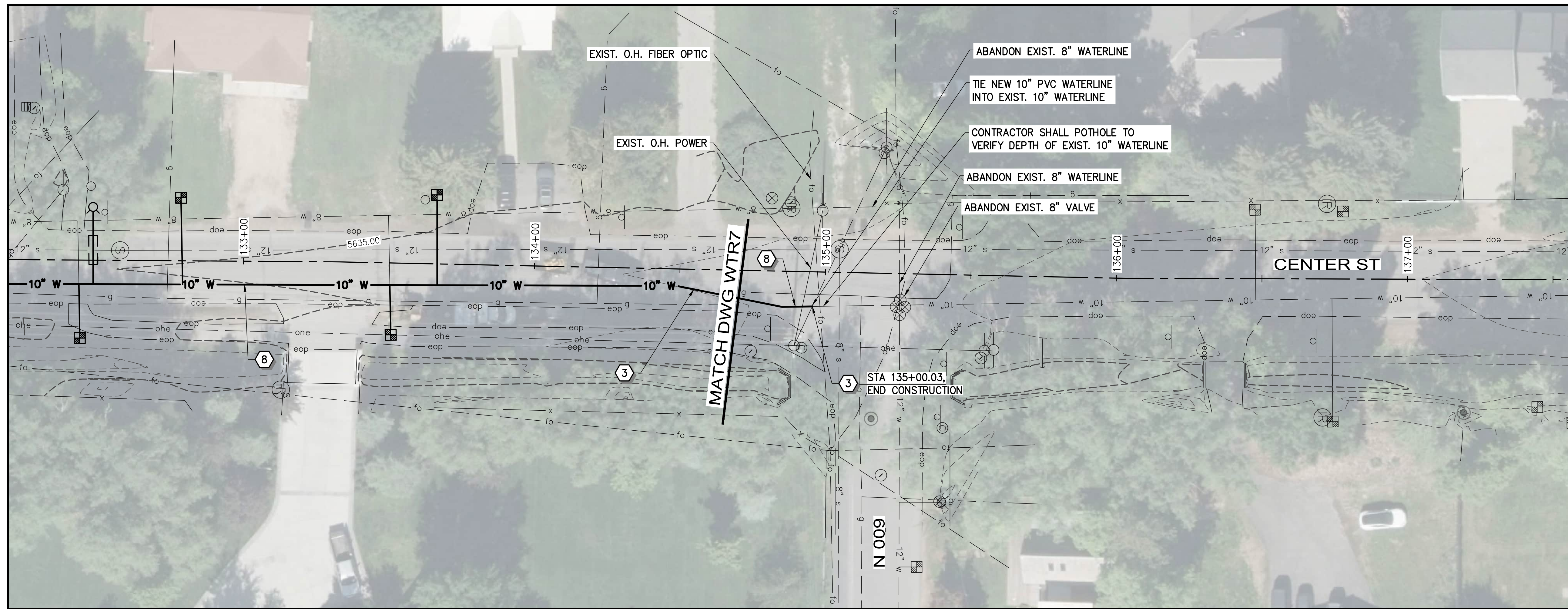
MIDWAY CITY

NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS

WATER PLAN & PROFILE

SEI NO. S10315	DESIGNED KRM	DRAWN KRM	CHECKED DSA	SHEET NO. 14	WTR7
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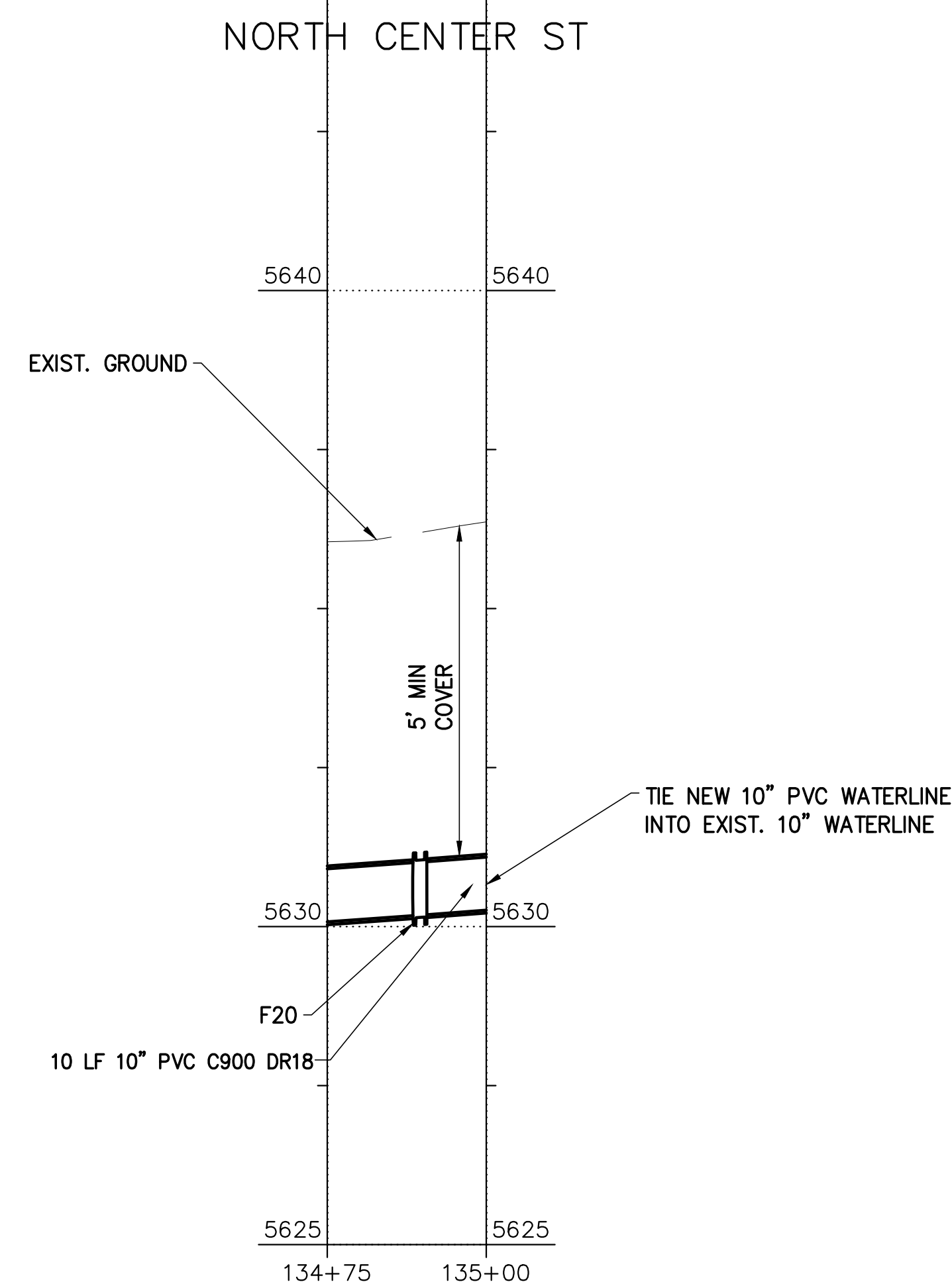


CONSTRUCTION NOTES

- ① WATER SERVICE CONNECTION – SEE DETAIL W5, SHEET D4.
- ② 8" PVC C900 DR18 WATERLINE. TRENCH CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAIL U1, SHEET D1 & DETAIL U5, SHEET D2.
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SCALE 20' = 1"

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REV. NO.	COMMENT	DATE

SUNRISE ENGINEERING

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 SPRINGVILLE, UTAH 84663
 TEL 801.704.5220
 www.sunrise-eng.com

MIDWAY CITY

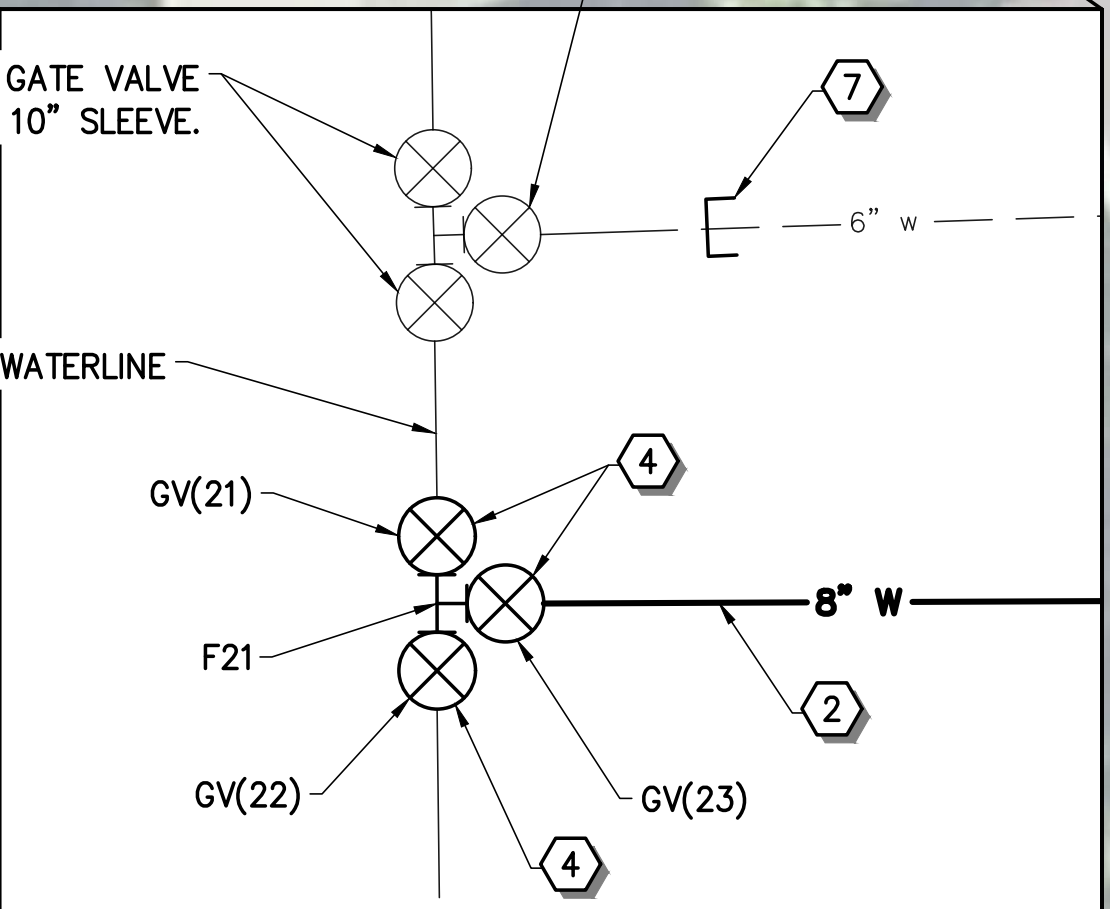
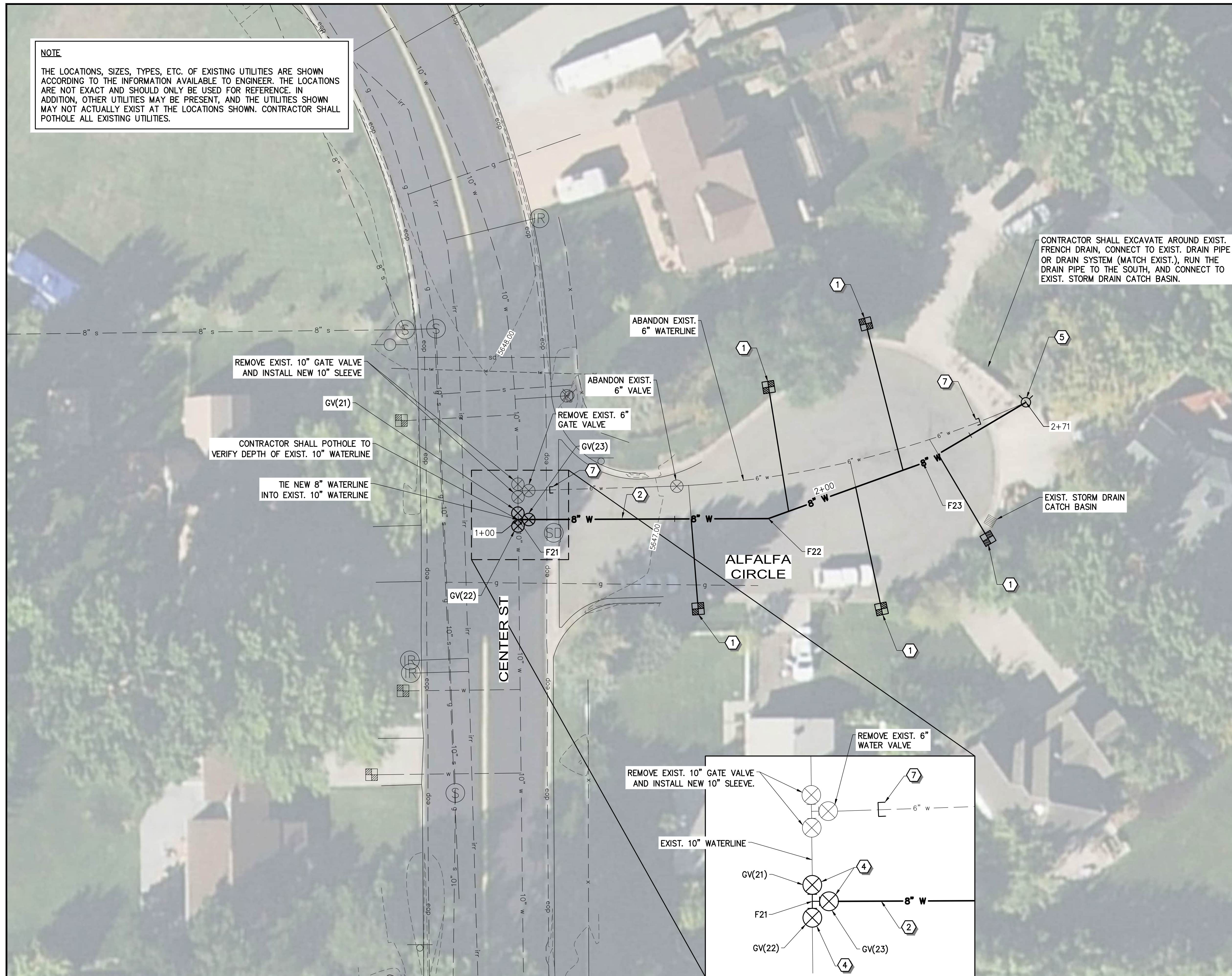
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS

WATER PLAN & PROFILE

SEI NO. S10315	DESIGNED KRM	DRAWN KRM	CHECKED DSA	SHEET NO. 15	WTR8
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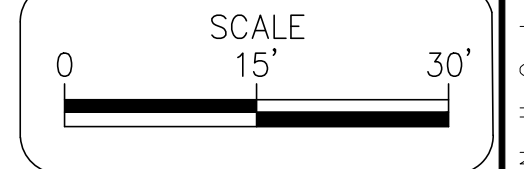


CONSTRUCTION NOTES

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- ② 8" PVC C900 DR18 WATERLINE. TRENCH CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAIL U1, SHEET D1 & DETAIL U5, SHEET D2.
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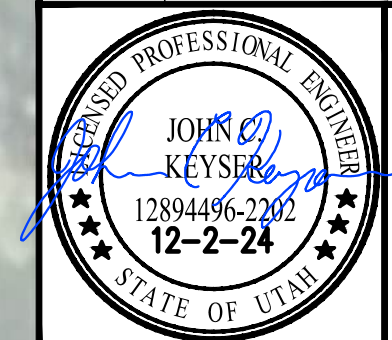
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4. MAINTAIN A MINIMUM COVER OF 5' UNLESS OTHERWISE SPECIFIED IN THE PLANS.
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7. ALL FITTINGS AT BENDS AND BRANCHES IN WATER PIPE LINES SHALL BE PROVIDED WITH CONCRETE THRUST BLOCKING – SEE DETAIL W2, SHEET D3.
8. WATERLINE SHALL BE INSTALLED A MINIMUM OF 18 INCHES ABOVE SEWER LINES AND 10 FEET AWAY HORIZONTALLY OR IS CONSIDERED AN AREA OF SPECIAL CONSTRUCTION – SEE DETAIL A, SHEET D6.
9. POT ROCK MAY BE ENCOUNTERED.
10. GROUNDWATER MAY BE ENCOUNTERED.
11. REFER TO SHEET T1 FOR FITTING AND VALVE TABLES.



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REV. NO.	COMMENT	DATE



SUNRISE ENGINEERING
 1180 N MOUNTAIN SPRING PKWY
 SPRINGVILLE, UTAH 84663
 TEL 801.704.5220
 www.sunrise-eng.com

MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
WATER PLAN

SEI NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	TITLE
S10315	KRM	KRM	DSA	16	WTR9


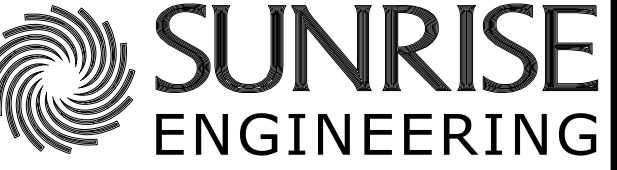
FITTING TABLE						
Fitting Name	Diameter	Angle	Fitting Type	Connection Type	Station	Thrust Protection
F1	12 in x 12 in x 10 in x 10 in	—	cross	FL X FL	99+81.80	Thrust Blocking per Detail D3/W2
F2	12 in x 12 in x 6 in	—	tee	FL X FL	99+81.84	Thrust Blocking per Detail D3/W2
F3	10 in x 10 in	11.25	elbow	MJ X MJ	100+31.93	Thrust Blocking per Detail D3/W2
F4	10 in x 10 in	45	elbow	MJ X MJ	100+46.26	Thrust Blocking per Detail D3/W2
F5	10 in x 10 in	45	elbow	MJ X MJ	100+55.04	Thrust Blocking per Detail D3/W2
F6	10 in x 10 in	11.25	elbow	MJ X MJ	102+55.40	Thrust Blocking per Detail D3/W2
F7	10 in x 10 in x 10 in x 10 in	—	cross	FL X FL	106+01.76	Thrust Blocking per Detail D3/W2
F8	10 in x 10 in	11.25	elbow	MJ X MJ	106+49.08	Thrust Blocking per Detail D3/W2
F9	10 in x 10 in	11.25	elbow	MJ X MJ	112+19.88	Thrust Blocking per Detail D3/W2
F10	10 in x 10 in x 8 in	—	tee	FL X FL	115+56.18	Thrust Blocking per Detail D3/W2
F11	10 in x 10 in	11.25	elbow	MJ X MJ	115+80.55	Thrust Blocking per Detail D3/W2
F12	10 in x 10 in x 8 in	—	tee	FL X FL	116+04.54	Thrust Blocking per Detail D3/W2
F13	10 in x 10 in	11.25	elbow	MJ X MJ	116+55.96	Thrust Blocking per Detail D3/W2
F14	10 in x 10 in	11.25	elbow	MJ X MJ	118+25.95	Thrust Blocking per Detail D3/W2
F15	8 in x 6 in	—	reducer	FL X FL	121+84.13	Thrust Blocking per Detail D3/W2
F16	10 in x 10 in x 8 in	—	tee	FL X FL	121+84.10	Thrust Blocking per Detail D3/W2
F17	10 in x 10 in x 8 in	—	tee	FL X FL	127+02.42	Thrust Blocking per Detail D3/W2
F18	10 in x 10 in x 8 in	—	tee	FL X FL	132+18.48	Thrust Blocking per Detail D3/W2
F19	10 in x 10 in	11.25	elbow	MJ X MJ	134+52.66	Thrust Blocking per Detail D3/W2
F20	10 in x 10 in	11.25	elbow	MJ X MJ	134+89.60	Thrust Blocking per Detail D3/W2

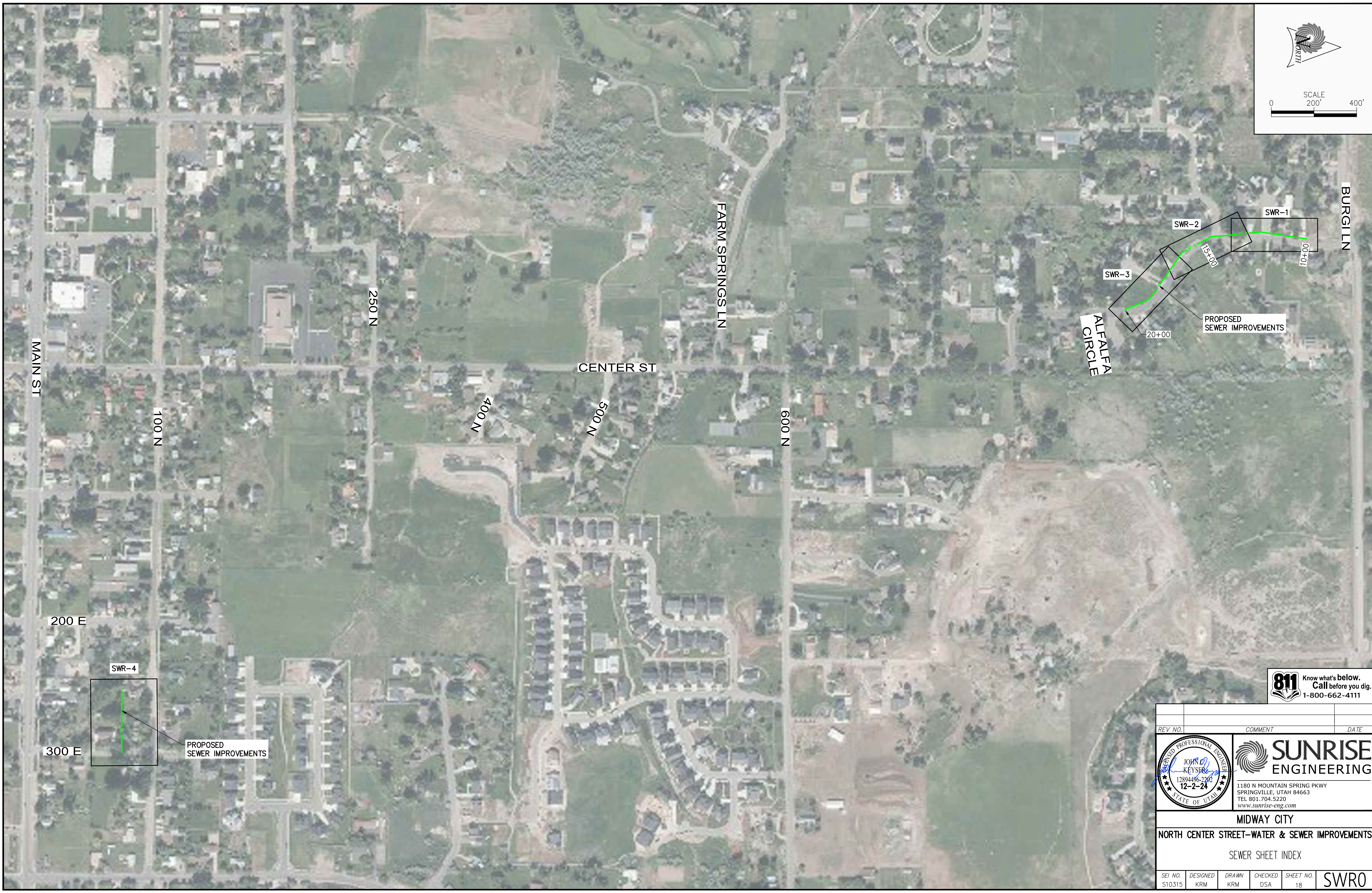
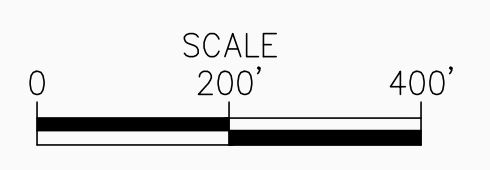
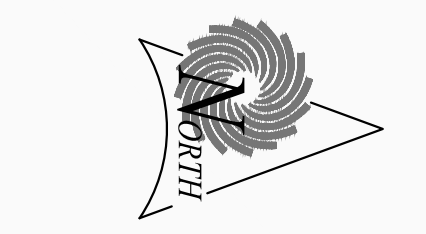
VALVE TABLE				
Valve Name	Size	Type	Connection Type	Station
GV(1)	12	Gate	FL X MJ	99+81.66
GV(2)	10	Gate	FL X MJ	99+85.95
GV(3)	10	Gate	FL X MJ	105+99.94
GV(4)	10	Gate	FL X MJ	106+01.69
GV(5)	10	Gate	FL X MJ	106+01.76
GV(6)	10	Gate	FL X MJ	106+03.93
GV(7)	10	Gate	FL X MJ	115+54.44
GV(8)	10	Gate	FL X MJ	115+56.27
GV(9)	10	Gate	FL X MJ	115+58.07
GV(10)	8	Gate	FL X MJ	116+06.01
GV(11)	10	Gate	FL X MJ	116+06.24
GV(12)	10	Gate	FL X MJ	121+82.13
GV(13)	8	Gate	FL X MJ	121+84.14
GV(14)	10	Gate	FL X MJ	121+86.05
GV(15)	10	Gate	FL X MJ	126+99.36
GV(16)	8	Gate	FL X MJ	127+02.32
GV(17)	10	Gate	FL X MJ	127+05.37
GV(18)	10	Gate	FL X MJ	132+15.07
GV(19)	8	Gate	FL X MJ	132+18.48
GV(20)	10	Gate	FL X MJ	132+22.25

FITTING TABLE						
Fitting Name	Diameter	Angle	Fitting Type	Connection Type	Station	Thrust Protection
F21	10 in x 10 in x 8 in	—	tee	FL X FL	1+00.00	Thrust Blocking per Detail D3/W2
F22	8 in x 8 in	22.50	elbow	MJ X MJ	1+79.93	Thrust Blocking per Detail D3/W2
F23	8 in x 8 in	11.25	elbow	MJ X MJ	2+32.52	Thrust Blocking per Detail D3/W2

VALVE TABLE				
Valve Name	Size	Type	Connection Type	Station
GV(21)	10	Gate	FL X MJ	1+00.00
GV(22)	10	Gate	FL X MJ	1+00.01
GV(23)	8	Gate	FL X MJ	1+02.24

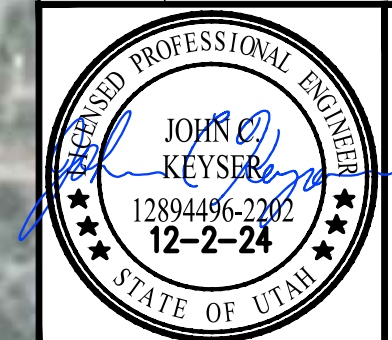
811 Know what's below.
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REV. NO.	COMMENT	DATE
		
		
1180 N MOUNTAIN SPRING PKWY SPRINGVILLE, UTAH 84663 TEL 801.704.5220 www.sunrise-eng.com		
MIDWAY CITY NORTH CENTER STREET—WATER & SEWER IMPROVEMENTS FITTING & VALVE TABLES		
SEI NO. S10315	DESIGNED KRM	DRAWN KRM
CHECKED DSA	SHEET NO. 17	T1



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REV NO.	COMMENT	DATE

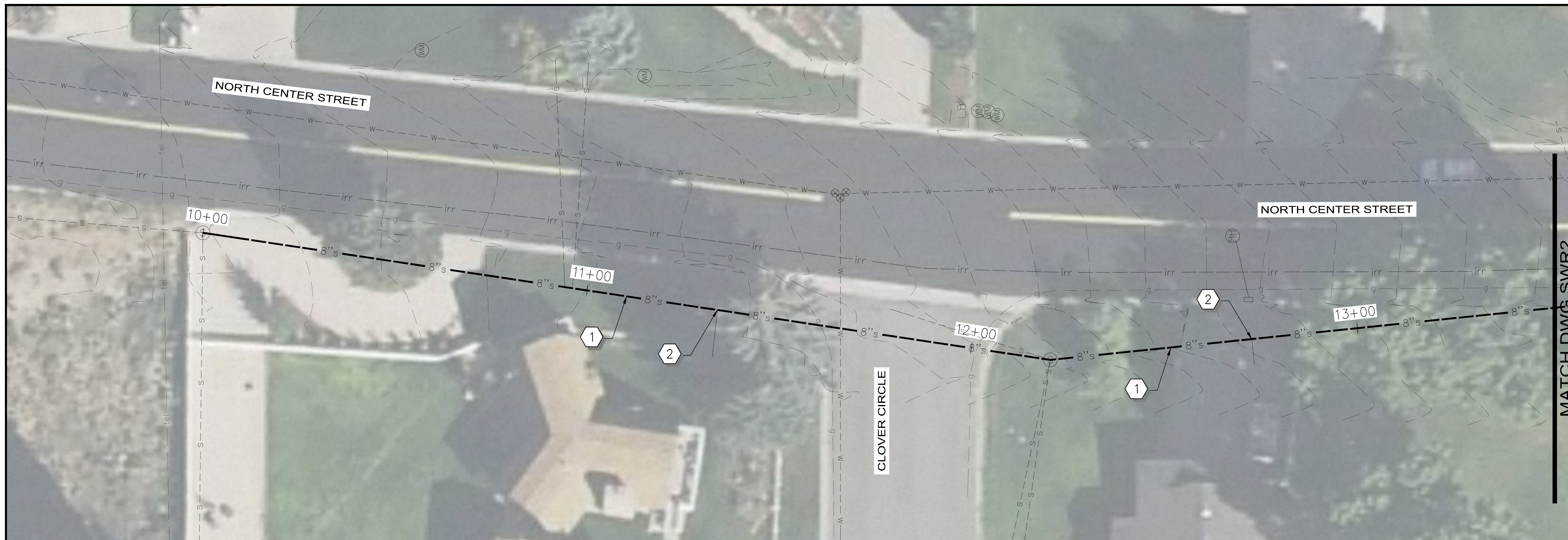


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MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
SEWER SHEET INDEX

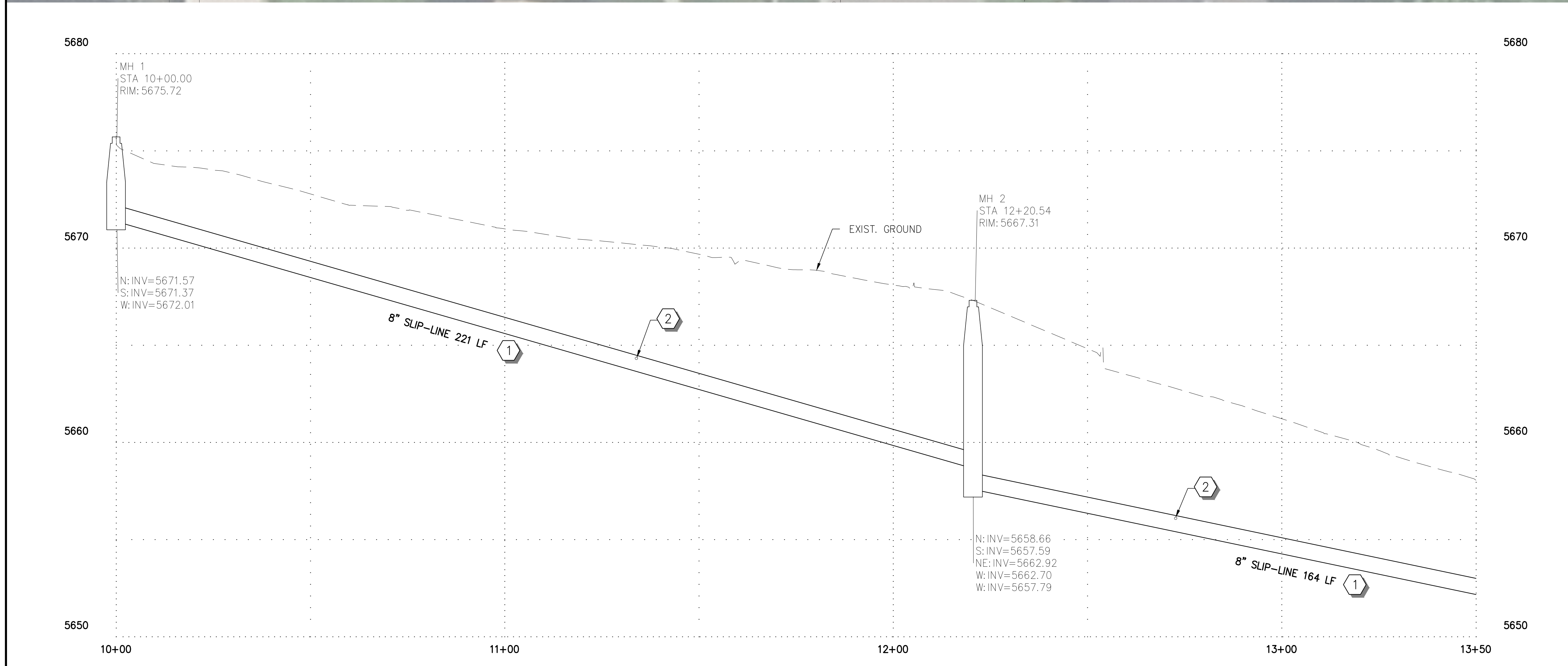
SEI NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	
S10315	KRM	KRM	DSA	18	SWR0

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CONSTRUCTION NOTES

- ① INSTALL SLIP-LINE LINER INSIDE EXISTING SEWER MAIN PER SPEC 02627SP SIZE PER PLAN. SEE SHEET D7, DETAIL A.
- ② CUT IN SERVICE AND INSTALL TOP-HAT SERVICE SLEEVE FROM THE INSIDE OF SLIP-LINER PER SPEC 02627SP. SEE SHEET D7, DETAIL B.



NOTES:
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SCALE
 0 15' 30'
 HORIZ: 1" = 30'

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 1-800-662-4111

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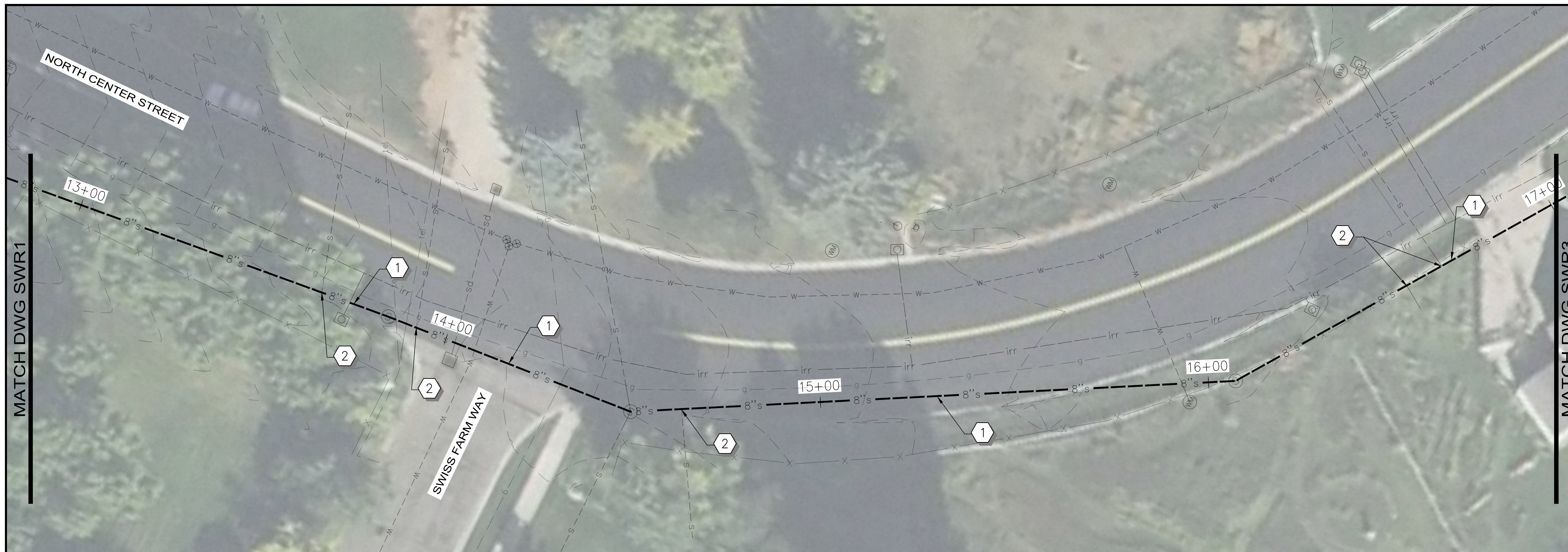
REGISTERED PROFESSIONAL ENGINEER
 JOHN KEYSER
 12894496-2202
 12-2-24
 STATE OF UTAH

SUNRISE ENGINEERING
 1180 NORTH MOUNTAIN SPRINGS PKWY
 SPRINGVILLE, UT 84663
 TEL (801)704.5220
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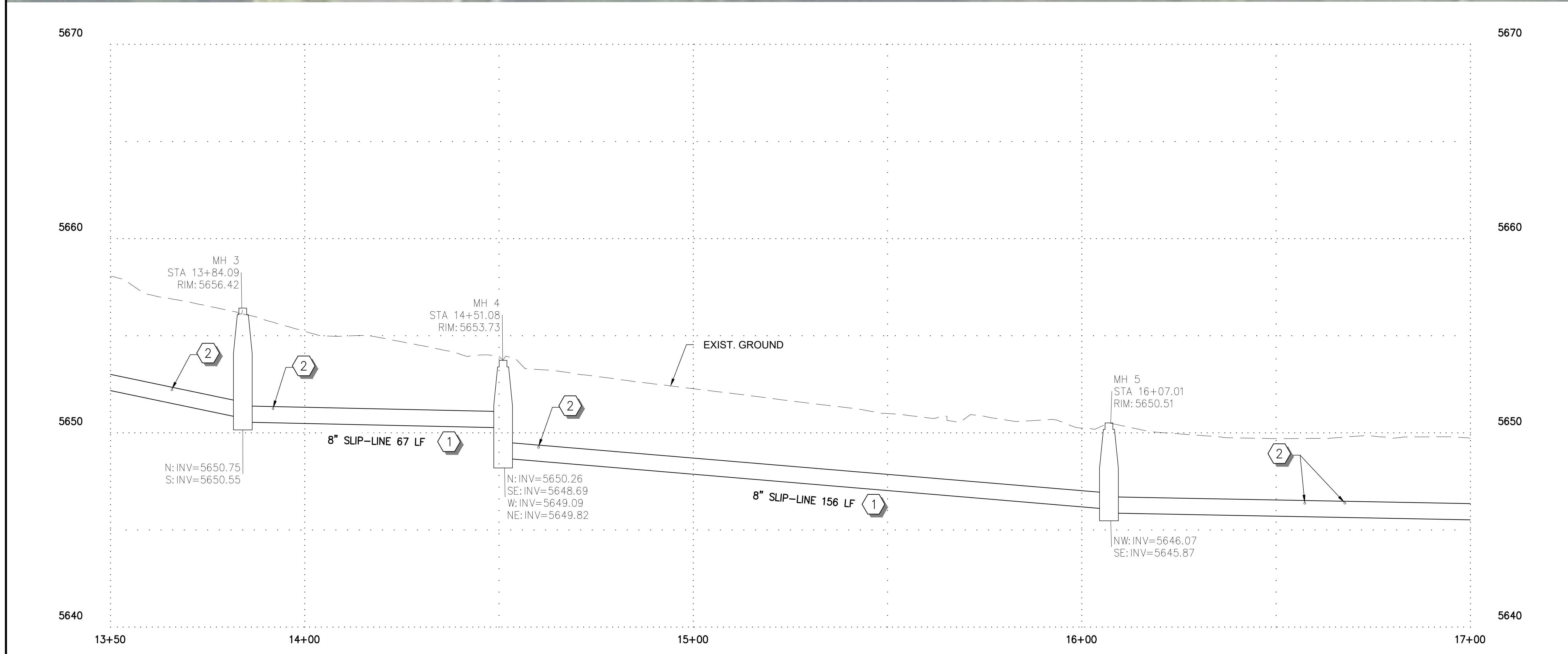
MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
SEWER PLAN & PROFILE

SEI NO. S10315	DESIGNED JCK	DRAWN JCK	CHECKED DSA	SHEET NO. 19	SWR1
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 - ② CUT IN SERVICE AND INSTALL TOP-HAT SERVICE SLEEVE FROM THE INSIDE OF SLIP-LINER PER SPEC 02627SP. SEE SHEET D7, DETAIL B.



NOTES:
 1. LOCATIONS AND DEPTHS OF EXISTING UTILITIES ARE NOT EXACT AND SHOULD ONLY BE USED FOR REFERENCE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING UTILITY LOCATIONS.

SCALE
 0 15' 30'
 HORIZ: 1" = 30'

811 Know what's below.
 Call before you dig.
 1-800-662-4111

REV. NO.	COMMENT	DATE

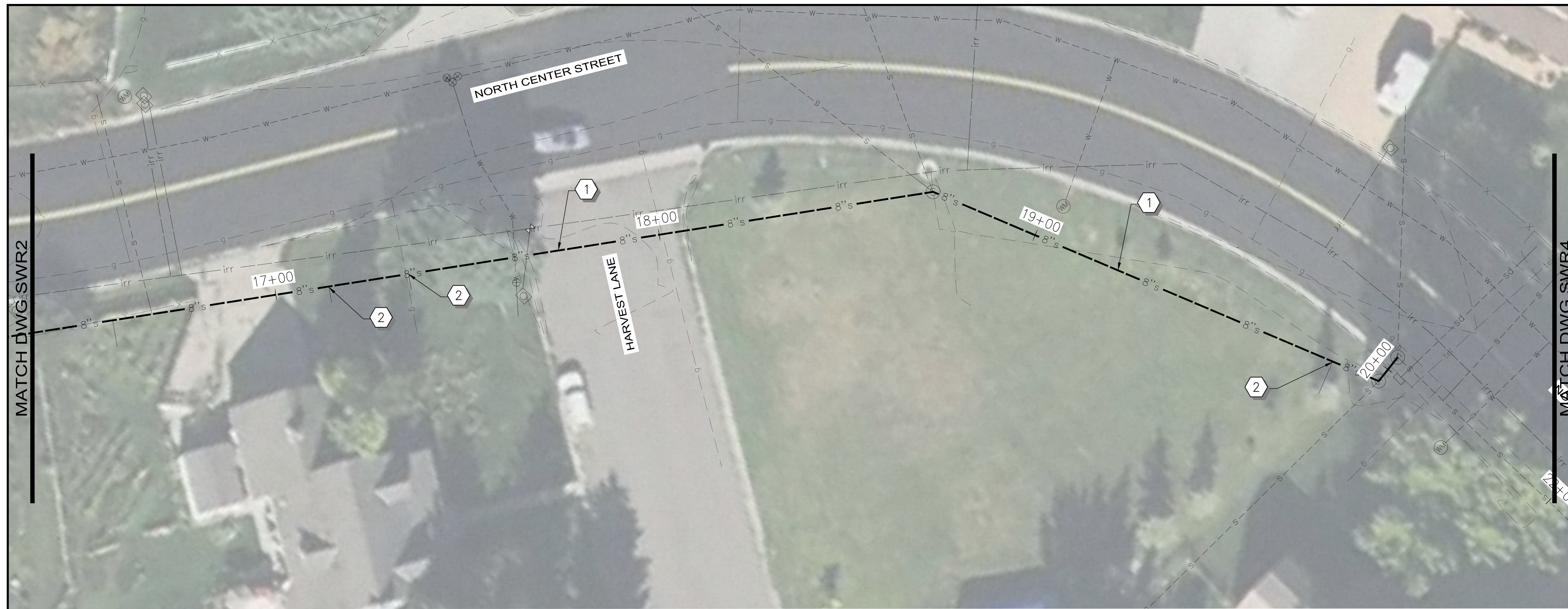
REGISTERED PROFESSIONAL ENGINEER
 JOHN KEYSER
 12894496-2202
 12-2-24
 STATE OF UTAH

SUNRISE ENGINEERING
 1180 NORTH MOUNTAIN SPRINGS PKWY
 SPRINGVILLE, UT 84663
 TEL (801)704.5220
 www.sunrise-eng.com

MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
SEWER PLAN & PROFILE

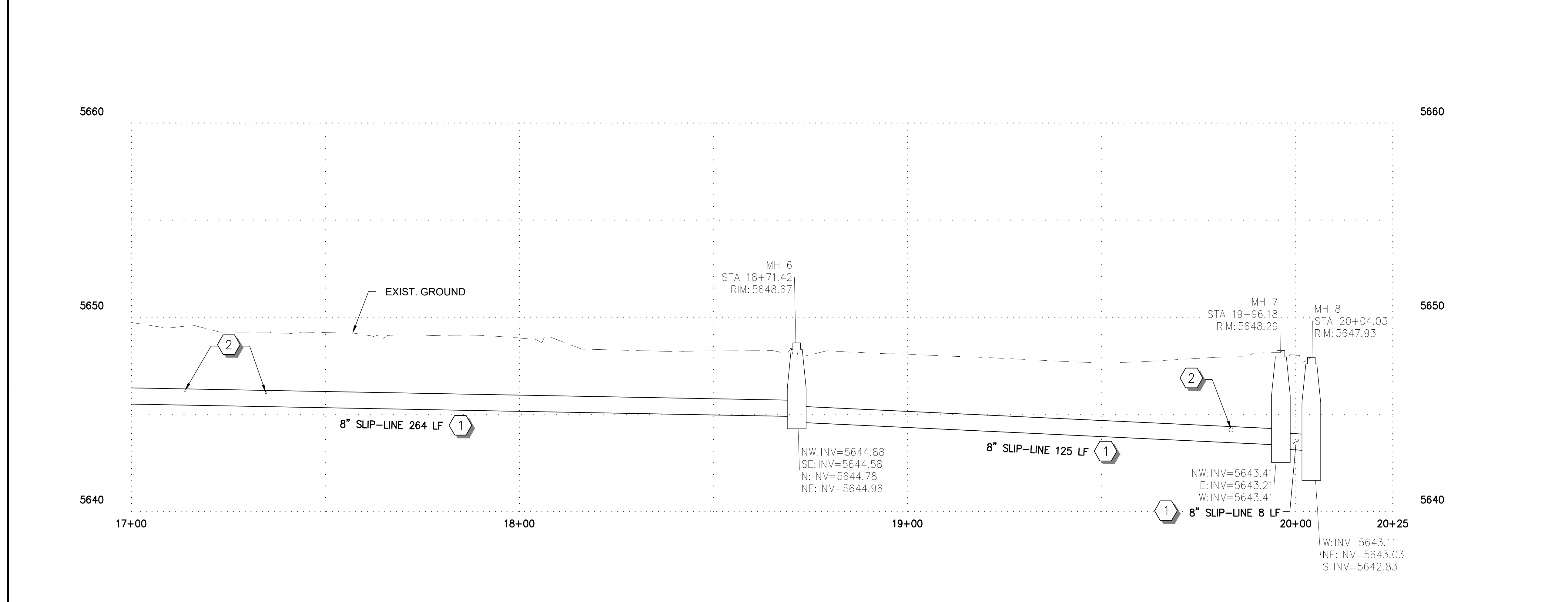
SEI NO. S10315	DESIGNED JCK	DRAWN JCK	CHECKED DSA	SHEET NO. 20	SWR2
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CONSTRUCTION NOTES

- ① INSTALL SLIP-LINE LINER INSIDE EXISTING SEWER MAIN PER SPEC 02627SP SIZE PER PLAN. SEE SHEET D7, DETAIL A.
- ② CUT IN SERVICE AND INSTALL TOP-HAT SERVICE SLEEVE FROM THE INSIDE OF SLIP-LINER PER SPEC 02627SP. SEE SHEET D7, DETAIL B.



NOTES:
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SCALE
 0 10' 20'
 HORIZ: 1" = 20'

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 1-800-662-4111

REV. NO.	COMMENT	DATE

JOHN KEYSER
 12894496-2202
 12-2-24
 STATE OF UTAH

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SEWER PLAN & PROFILE

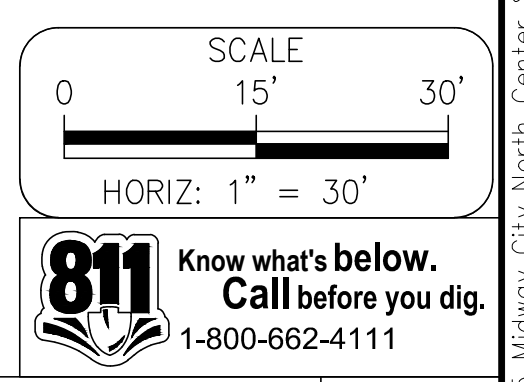
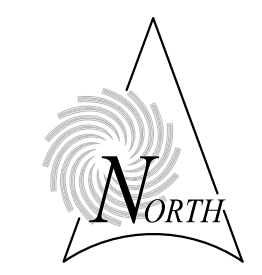
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S10315	JCK	JCK	DSA	21	SWR3



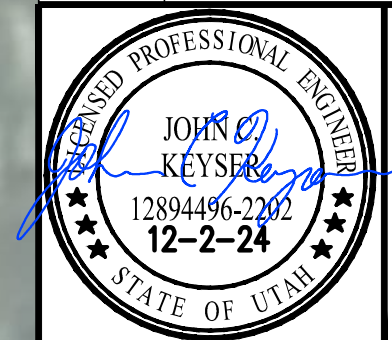
CONSTRUCTION NOTES

- ① INSTALL SLIP-LINE LINER INSIDE EXISTING SEWER MAIN PER SPEC 02627SP SIZE PER PLAN. SEE SHEET D7, DETAIL A.
- ② CUT IN SERVICE AND INSTALL TOP-HAT SERVICE SLEEVE FROM THE INSIDE OF SLIP-LINER PER SPEC 02627SP. SEE SHEET D7, DETAIL B.

NOTES:
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REV NO.	COMMENT	DATE

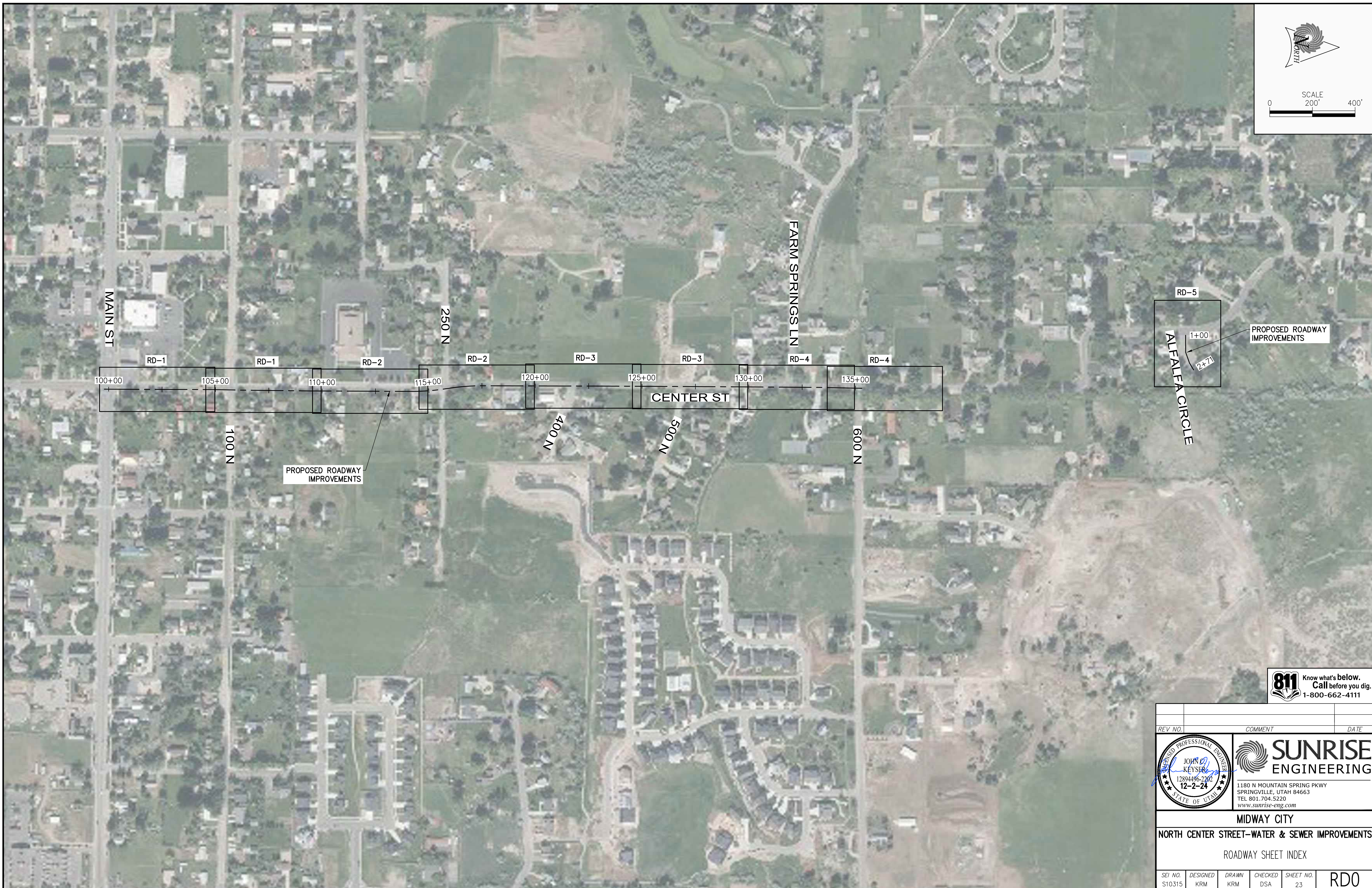
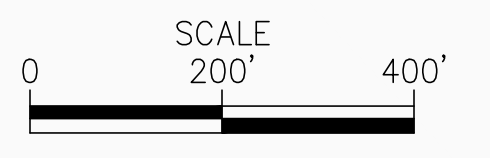
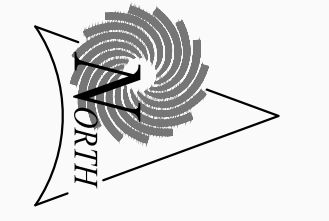


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MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
SEWER PLAN

SEI NO. S10315	DESIGNED JCK	DRAWN JCK	CHECKED DSA	SHEET NO. 22	SWR4
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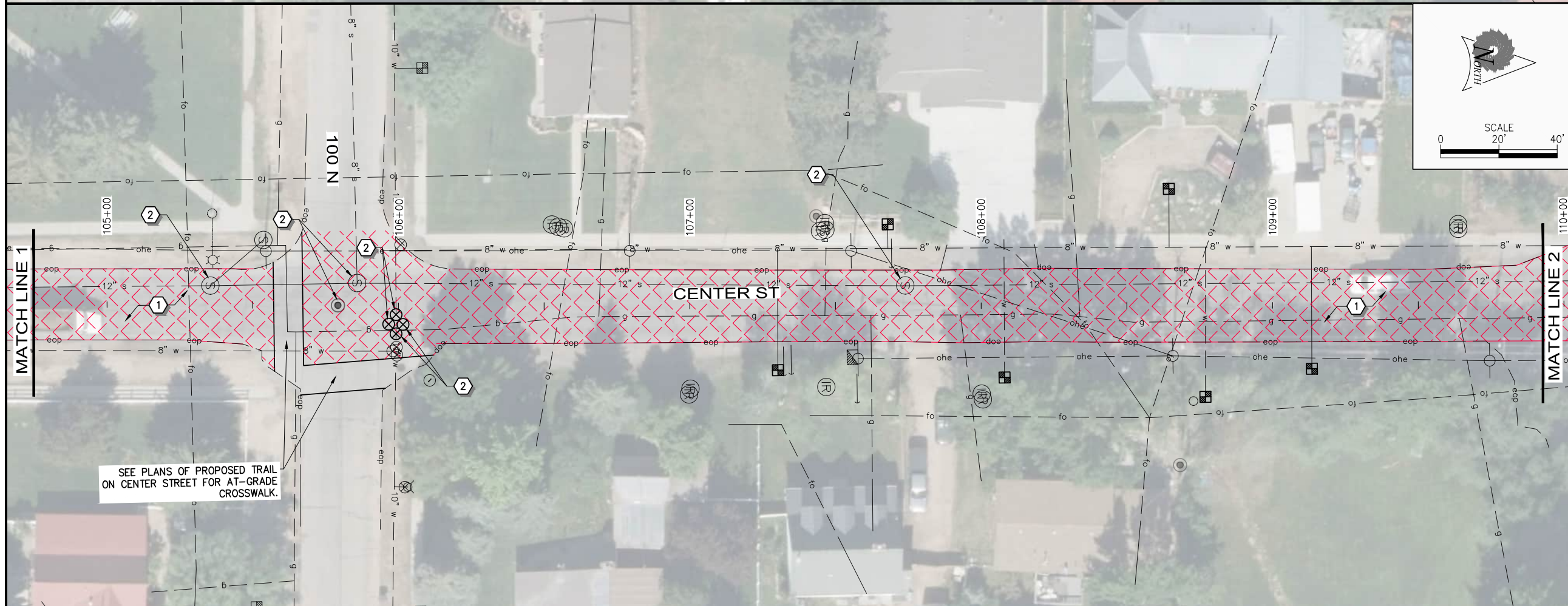
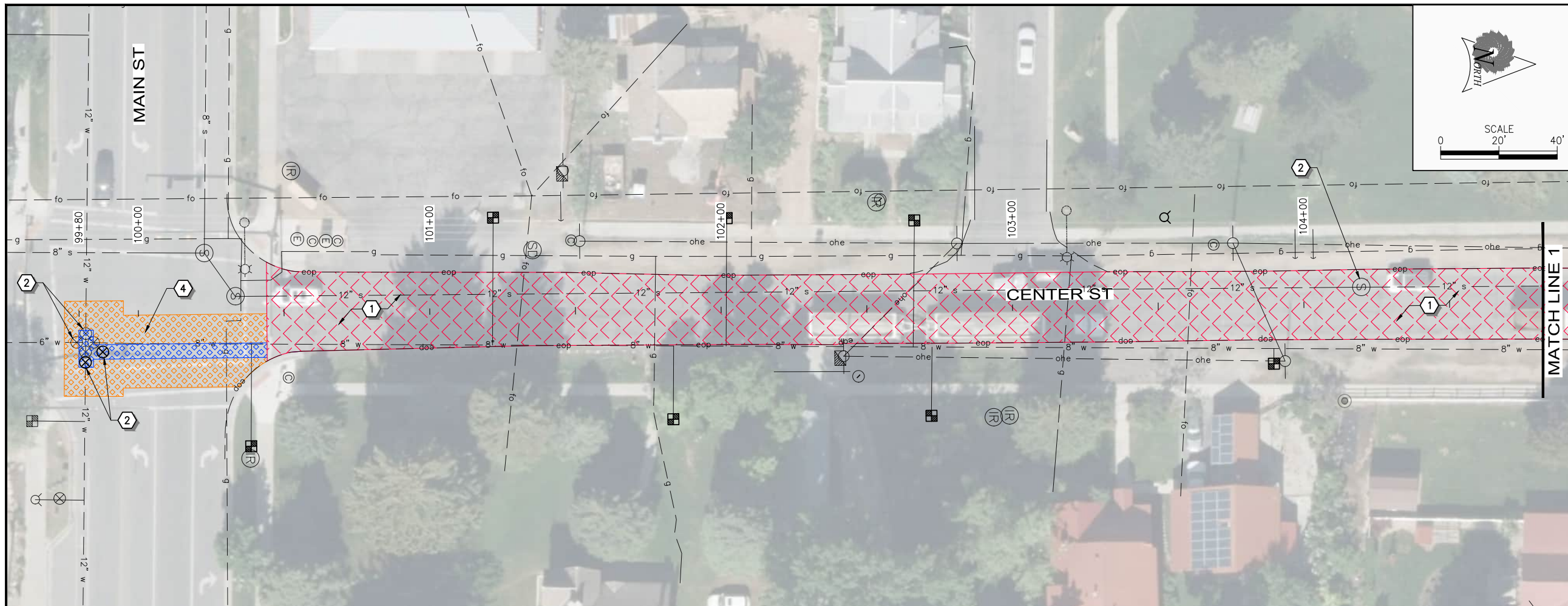
PROPOSED ROADWAY IMPROVEMENTS

PROPOSED ROADWAY IMPROVEMENTS

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REV. NO.	COMMENT	DATE

	<p>SUNRISE ENGINEERING</p> <p>1180 N MOUNTAIN SPRING PKWY SPRINGVILLE, UTAH 84663 TEL 801.704.5220 www.sunrise-eng.com</p>				
		<p>MIDWAY CITY</p> <p>NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS</p> <p>ROADWAY SHEET INDEX</p>			
SEI NO. S10315	DESIGNED KRM	DRAWN KRM	CHECKED DSA	SHEET NO. 23	RDO



CONSTRUCTION NOTES

- ① PULVERIZE GRADE & PAVE 3" THICK ASPHALT PAVEMENT
- ② RAISE TO GRADE & COLLAR - SEE DETAIL U4, SHEET D1
- ③ UTILITY INSTALLATION IN EXISTING ROADWAY - SEE DETAIL U1, SHEET D1
- ④ UDOT TRENCH - SEE DETAIL A, SHEET D5

LEGEND

- PULVERIZE GRADE & PAVE 3" THICK ASPHALT PAVEMENT
- ROTOMILL 2" & PAVE 2" THICK ASPHALT PAVEMENT
- UTILITY INSTALLATION IN EXISTING ROADWAY SHALL BE IN ACCORDANCE WITH DETAIL U1, SHEET D1
- UDOT TRENCH - TRENCH CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAIL A, SHEET D5.

NOTES:

1. CONTRACTOR SHALL RAISE OR LOWER ALL EXISTING IRRIGATION, ELECTRICAL, OR OTHER UTILITY BOXES AS NEEDED TO MATCH ADJUSTED GRADES.

Know what's below. Call before you dig. 1-800-662-4111

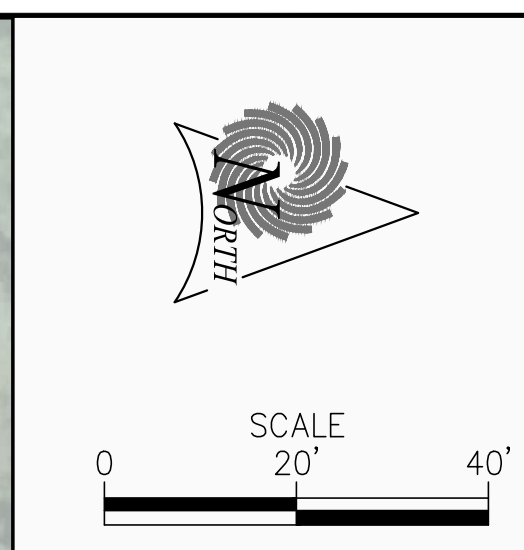
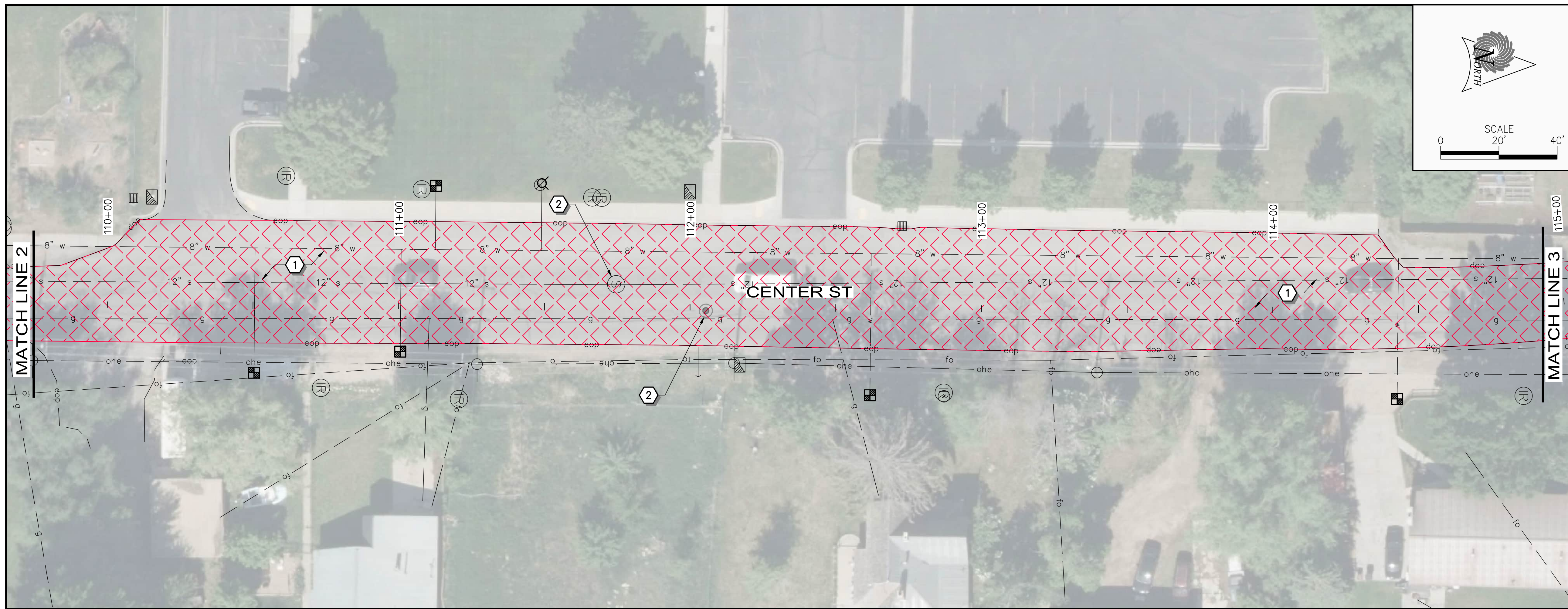
REV. NO.	COMMENT	DATE

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MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
ROADWAY SHEETS

SEI NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	RD1
S10315	KRM	KRM	DSA	24	



CONSTRUCTION NOTES

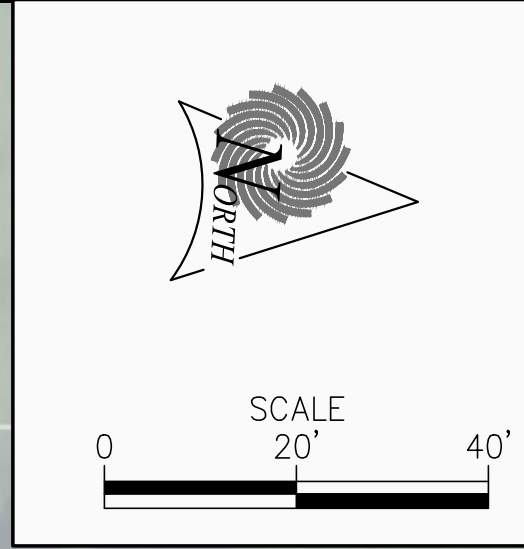
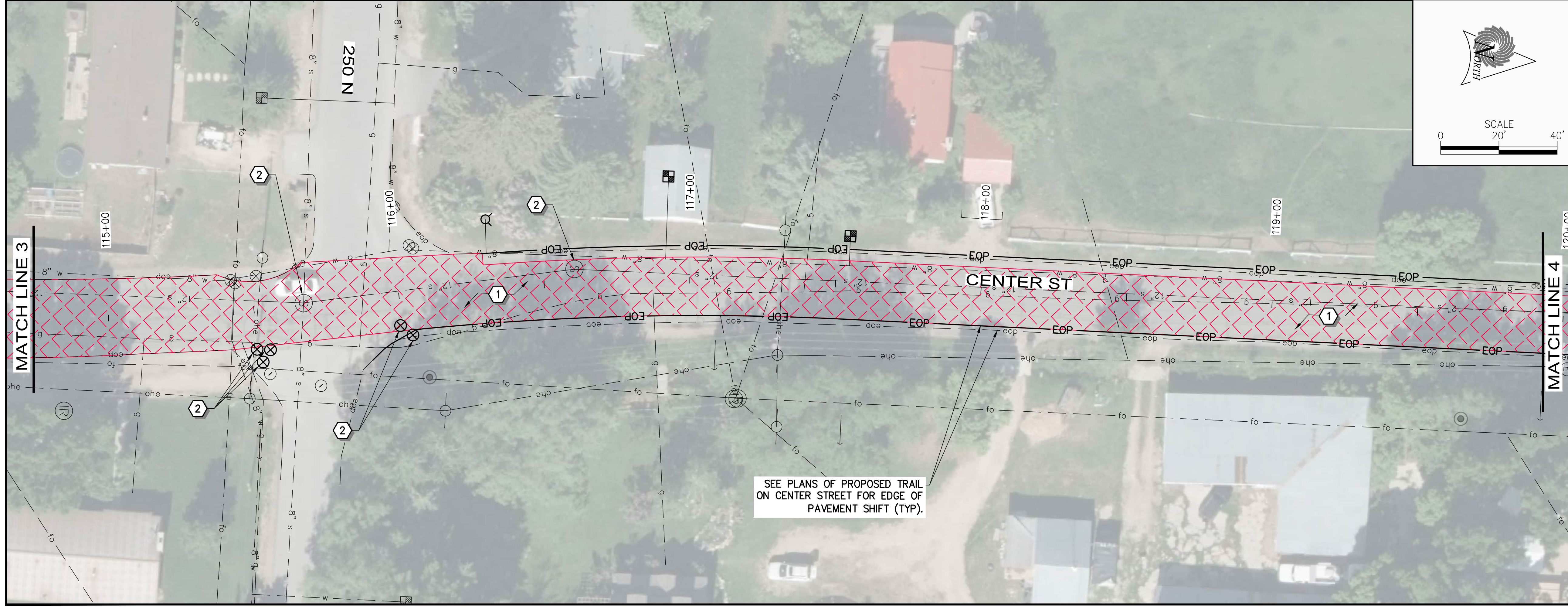
- ① PULVERIZE GRADE & PAVE 3" THICK ASPHALT PAVEMENT
- ② RAISE TO GRADE & COLLAR - SEE DETAIL U4, SHEET D1
- ③ UTILITY INSTALLATION IN EXISTING ROADWAY - SEE DETAIL U1, SHEET D1

LEGEND

- PULVERIZE GRADE & PAVE 3" THICK ASPHALT PAVEMENT
- UTILITY INSTALLATION IN EXISTING ROADWAY SHALL BE IN ACCORDANCE WITH DETAIL U1, SHEET D1

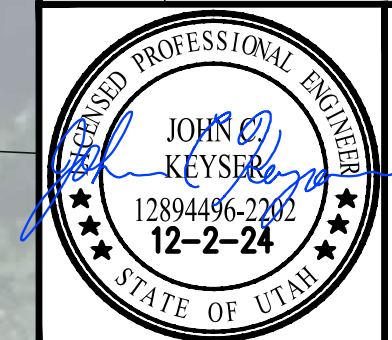
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REV. NO.	COMMENT	DATE

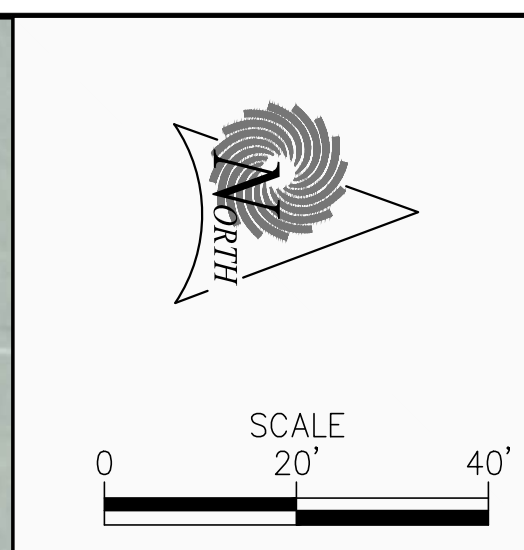
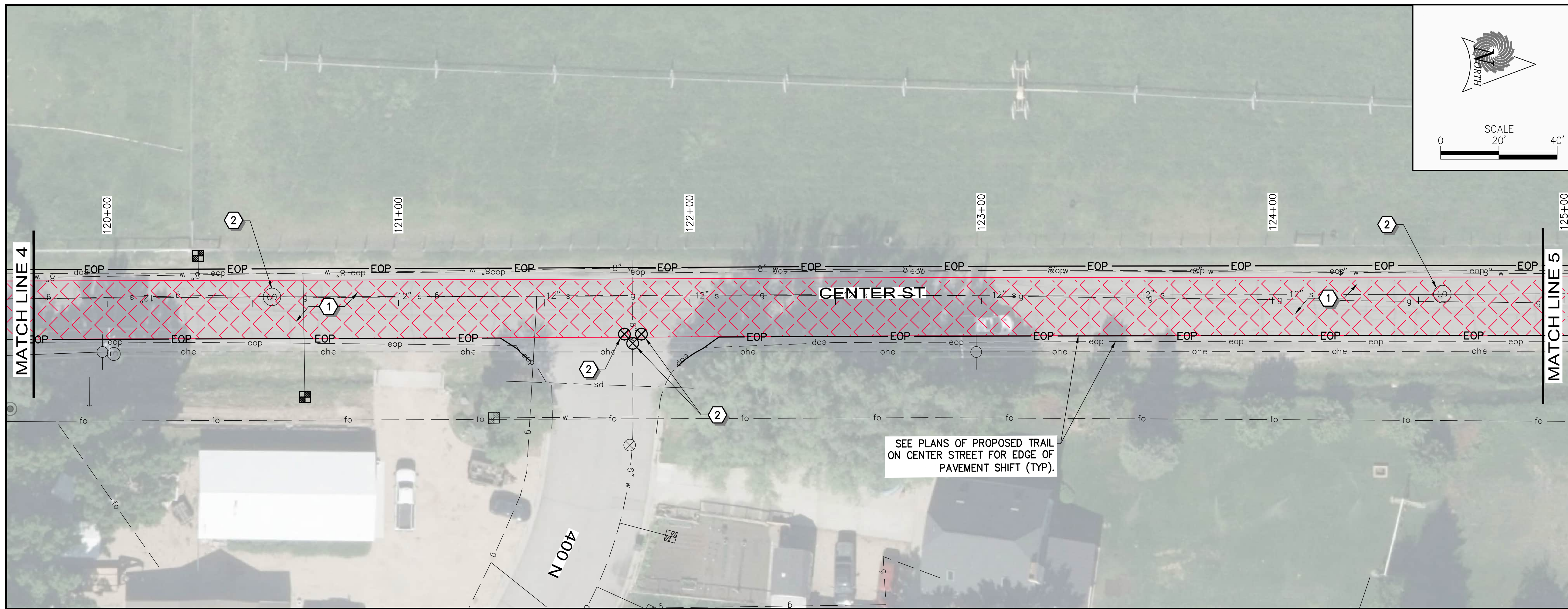


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**MIDWAY CITY
 NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
 ROADWAY SHEETS**

SEI NO. S10315	DESIGNED KRM	DRAWN KRM	CHECKED DSA	SHEET NO. 25	RD2
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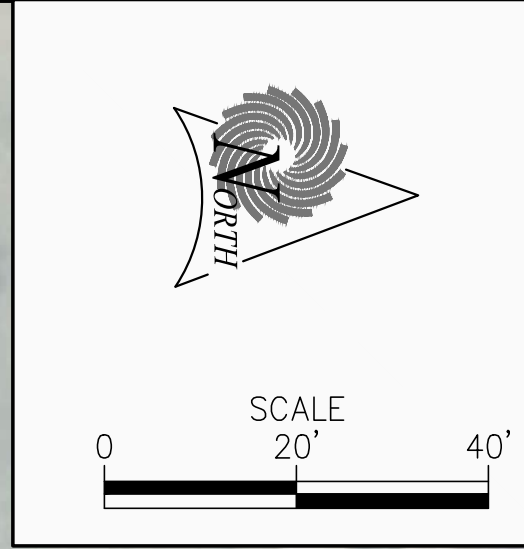
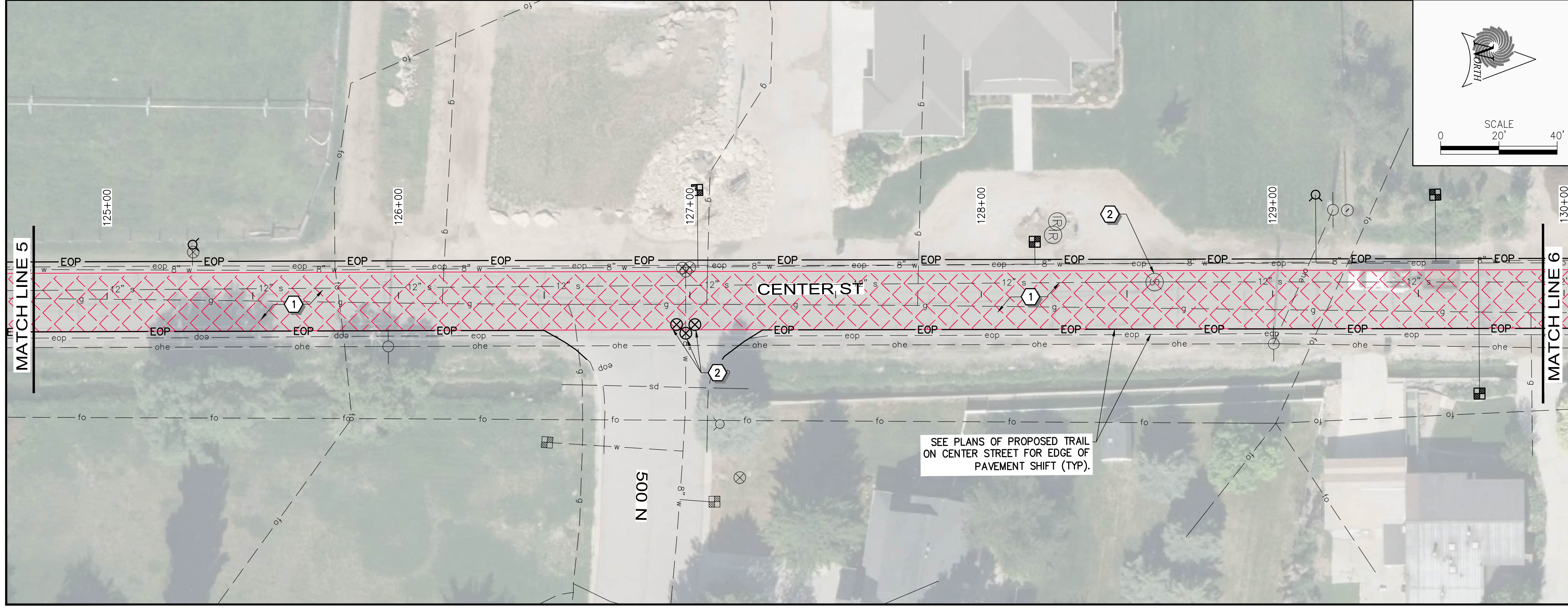


- CONSTRUCTION NOTES**
- ① PULVERIZE GRADE & PAVE 3" THICK ASPHALT PAVEMENT
 - ② RAISE TO GRADE & COLLAR - SEE DETAIL U4, SHEET D1
 - ③ UTILITY INSTALLATION IN EXISTING ROADWAY - SEE DETAIL U1, SHEET D1

- LEGEND**
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 - UTILITY INSTALLATION IN EXISTING ROADWAY SHALL BE IN ACCORDANCE WITH DETAIL U1, SHEET D1

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SEE PLANS OF PROPOSED TRAIL ON CENTER STREET FOR EDGE OF PAVEMENT SHIFT (TYP).



REV. NO.	COMMENT	DATE

REGISTERED PROFESSIONAL ENGINEER
 JOHN KEYSER
 12894496-2202
 12-2-24
 STATE OF UTAH

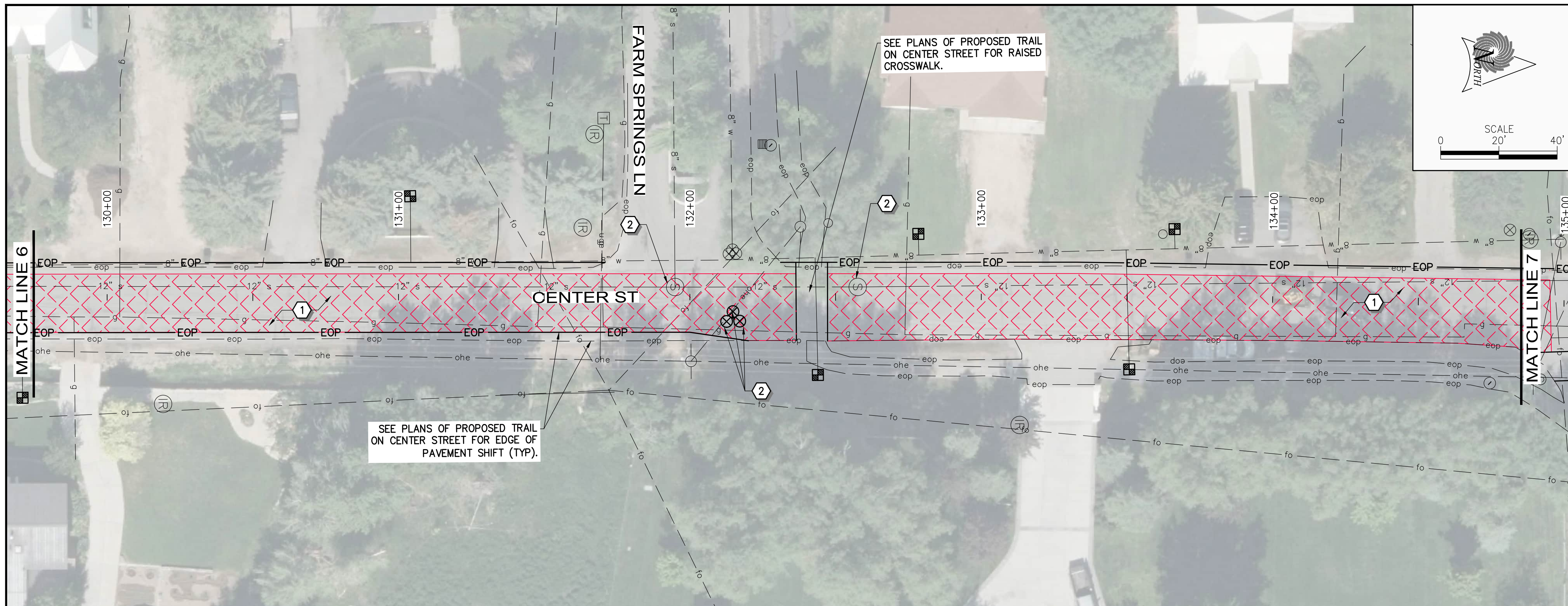
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MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
 ROADWAY SHEETS

SEI NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	RD3
S10315	KRM	KRM	DSA	26	

SEE PLANS OF PROPOSED TRAIL ON CENTER STREET FOR EDGE OF PAVEMENT SHIFT (TYP).



CONSTRUCTION NOTES

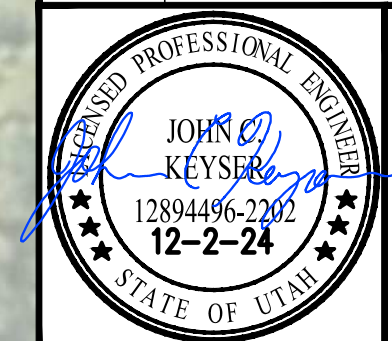
- ① PULVERIZE GRADE & PAVE 3" THICK ASPHALT PAVEMENT
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- ③ UTILITY INSTALLATION IN EXISTING ROADWAY - SEE DETAIL U1, SHEET D1

- LEGEND**
- PULVERIZE GRADE & PAVE 3" THICK ASPHALT PAVEMENT
 - UTILITY INSTALLATION IN EXISTING ROADWAY SHALL BE IN ACCORDANCE WITH DETAIL U1, SHEET D1

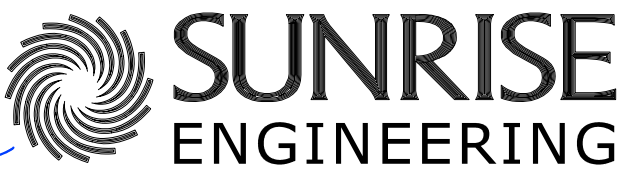
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REV. NO.	COMMENT	DATE



JOHN KEYSER
12894496-2202
12-2-24
STATE OF UTAH



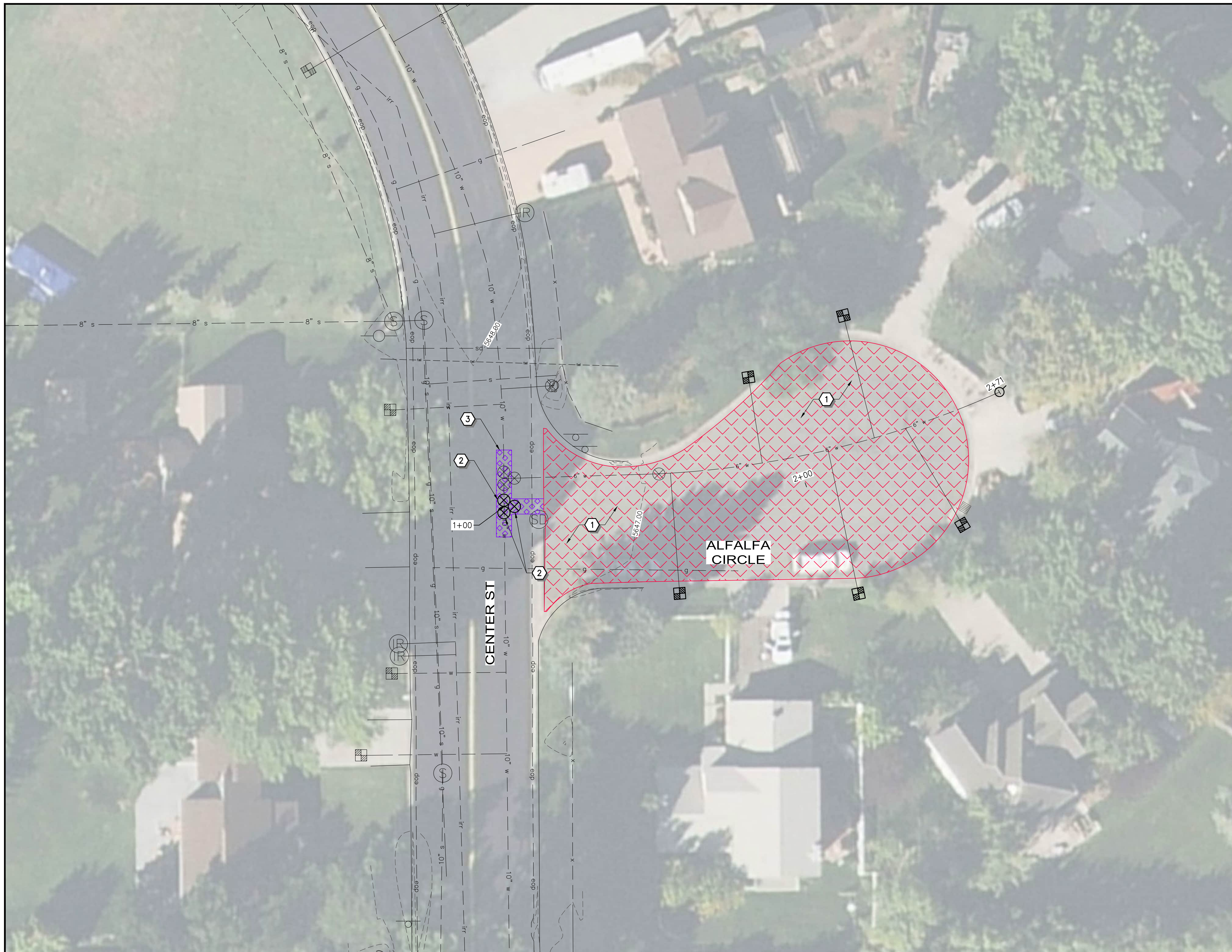
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MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
ROADWAY SHEETS

SEI NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	
S10315	KRM	KRM	DSA	27	RD4


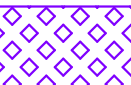
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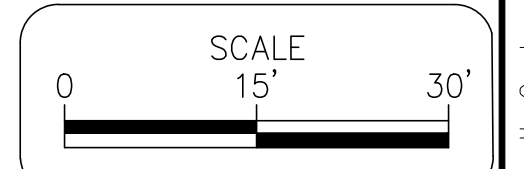
CONSTRUCTION NOTES

- ① PULVERIZE GRADE & PAVE 3" THICK ASPHALT PAVEMENT
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- ③ UTILITY INSTALLATION IN EXISTING ROADWAY – SEE DETAIL U1, SHEET D1

LEGEND

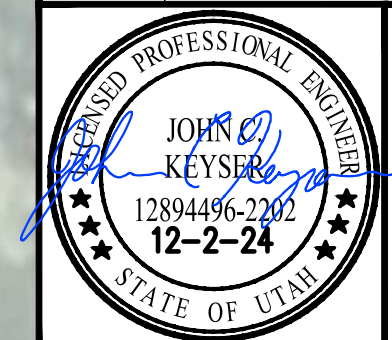
-  PULVERIZE GRADE & PAVE 3" THICK ASPHALT PAVEMENT
-  UTILITY INSTALLATION IN EXISTING ROADWAY SHALL BE IN ACCORDANCE WITH DETAIL U1, SHEET D1

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811 Know what's below. Call before you dig. 1-800-662-4111

REV. NO.	COMMENT	DATE



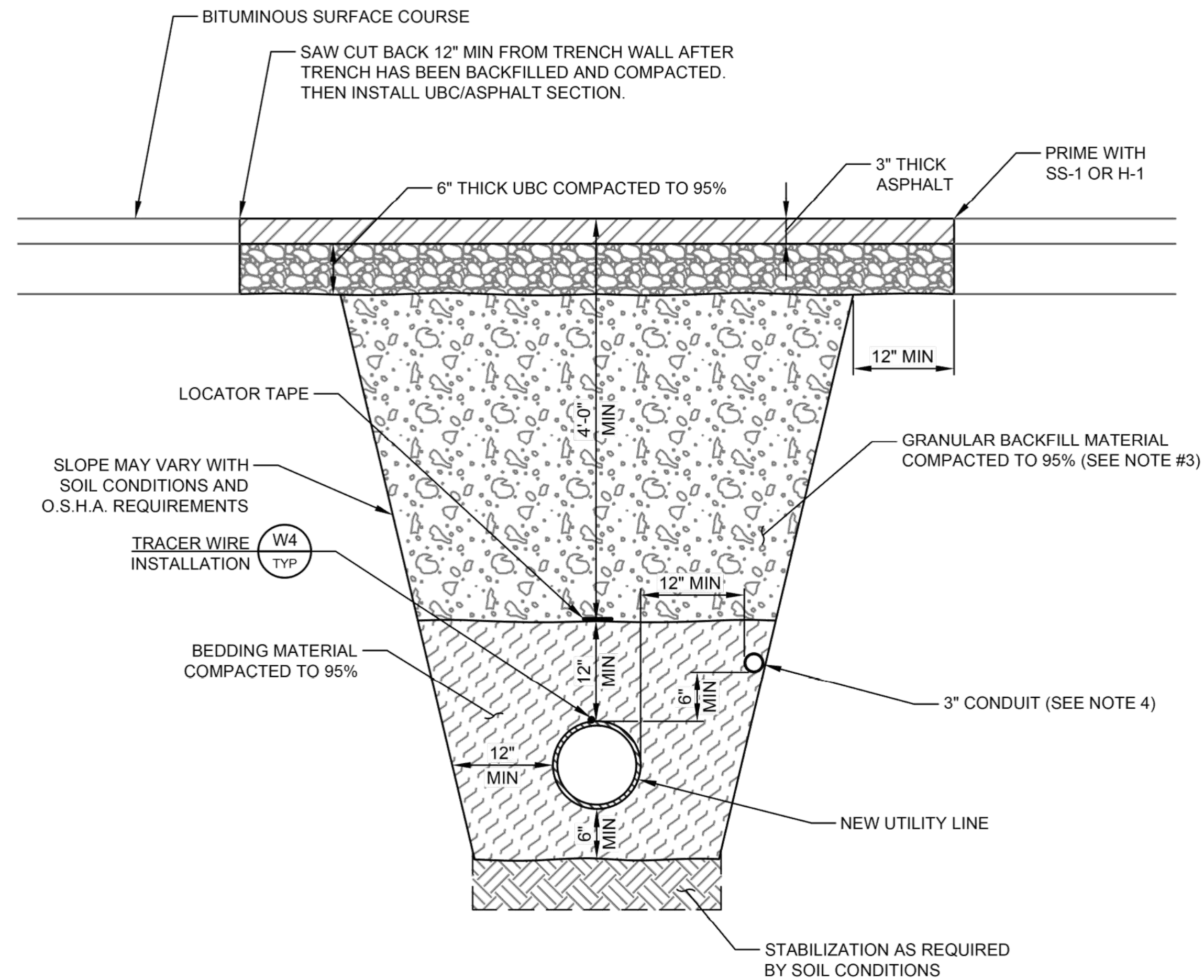
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NORTH CENTER STREET–WATER & SEWER IMPROVEMENTS
 ROADWAY SHEETS

SEI NO. S10315	DESIGNED KRM	DRAWN KRM	CHECKED DSA	SHEET NO. 28	RD5
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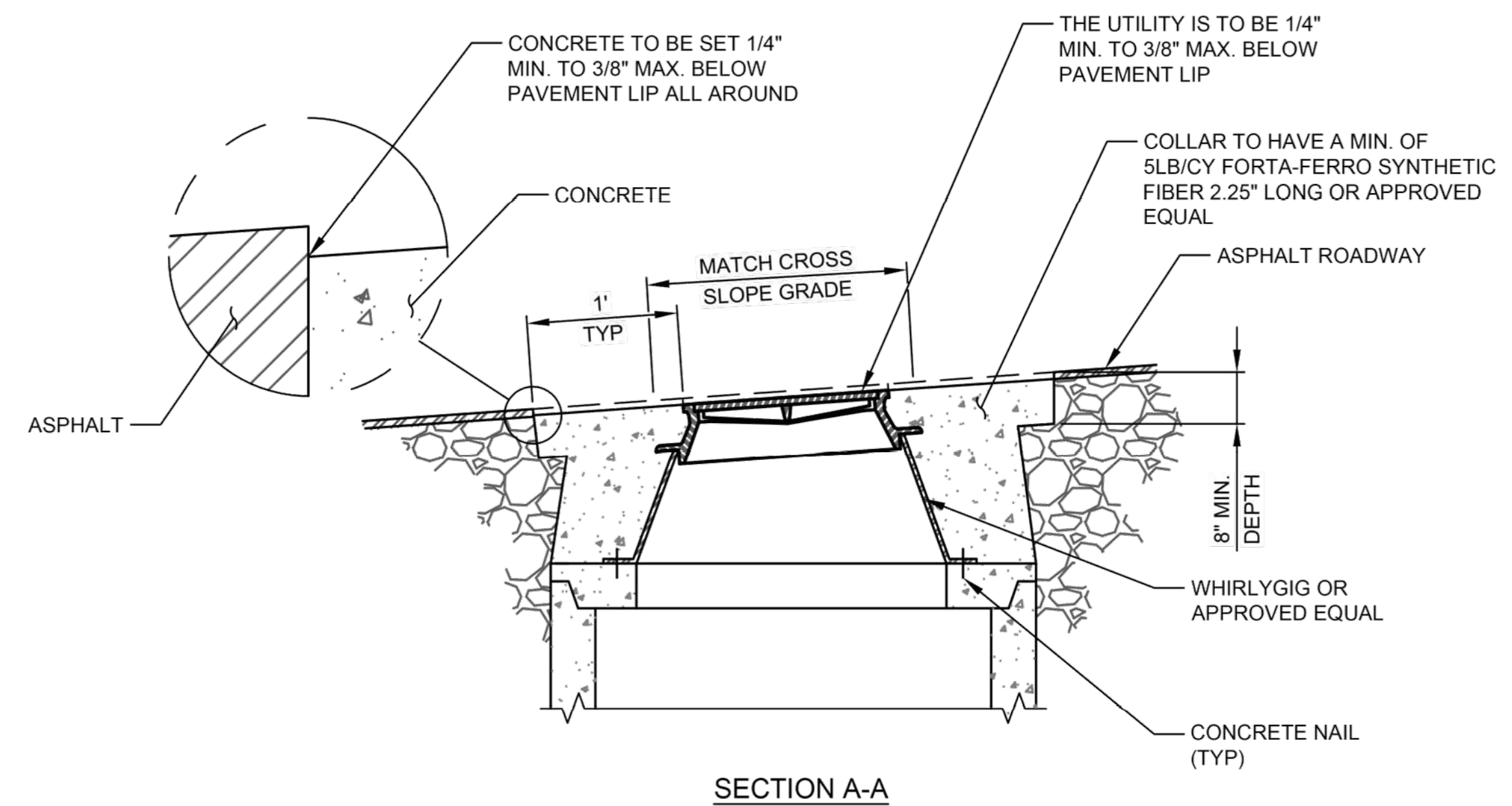
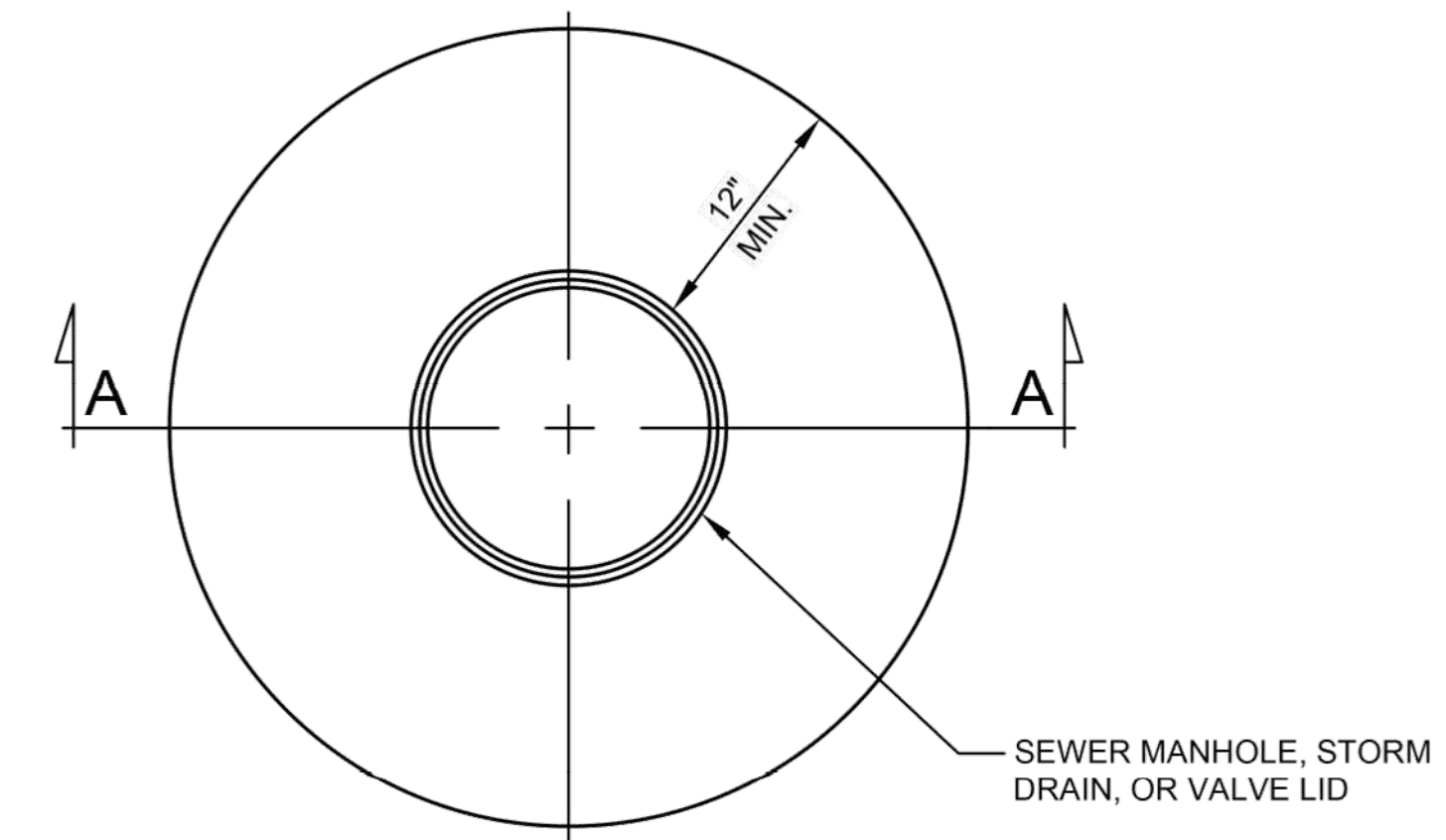
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NOTES:

1. COMPACTED BEDDING MATERIAL SHALL CONSIST OF SAND, OR WELL GRADED CRUSHED ROCK 1/2" MINIMUM 3/4" MAXIMUM. MATERIALS, METHOD AND COMPACTION, SHALL BE APPROVED BY ENGINEER. PEA GRAVEL IS PROHIBITED, EXCEPT WHEN APPROVED BY ENGINEER.
2. USE PROPER MARKER TAPE APPROVED BY ENGINEER.
3. REFER TO SECTION 02225-3.08 FOR COMPACTION DETAILS.
4. MIDWAY CITY MAY CHOOSE AT THE CITY'S EXPENSE TO INSTALL 3" CONDUIT WITHIN TRENCH FOR FUTURE USE.

U1 UTILITY INSTALLATION IN EXISTING ROADWAY
TYP N.T.S.



NOTES:

1. CONCRETE COLLAR, CLASS 4500 PSI, 7 BAG MIX, SEE SECTION 03304.
2. COLLAR PERIMETER SHALL BE CUT USING A SAW UNLESS APPROVED BY THE ENGINEER.
3. DETAIL IS FOR ALL MANHOLES AND VALVES.
4. ALL MANHOLES, CATCH BASINS, VALVE BOXES AND VERTICAL STRUCTURES SHALL BE COMPACTED USING A JUMPING JACK TYPE DEVICE WITH MAXIMUM LIFTS NOT TO EXCEED 6 INCHES OR AS RECOMMENDED BY JUMPING JACK MANUFACTURERS. DENSITY TESTS SHALL BE TAKEN AT EVERY MANHOLE, CATCH BASIN, VALVE BOX AND VERTICAL STRUCTURES.

U4 CONCRETE COLLAR
TYP N.T.S.

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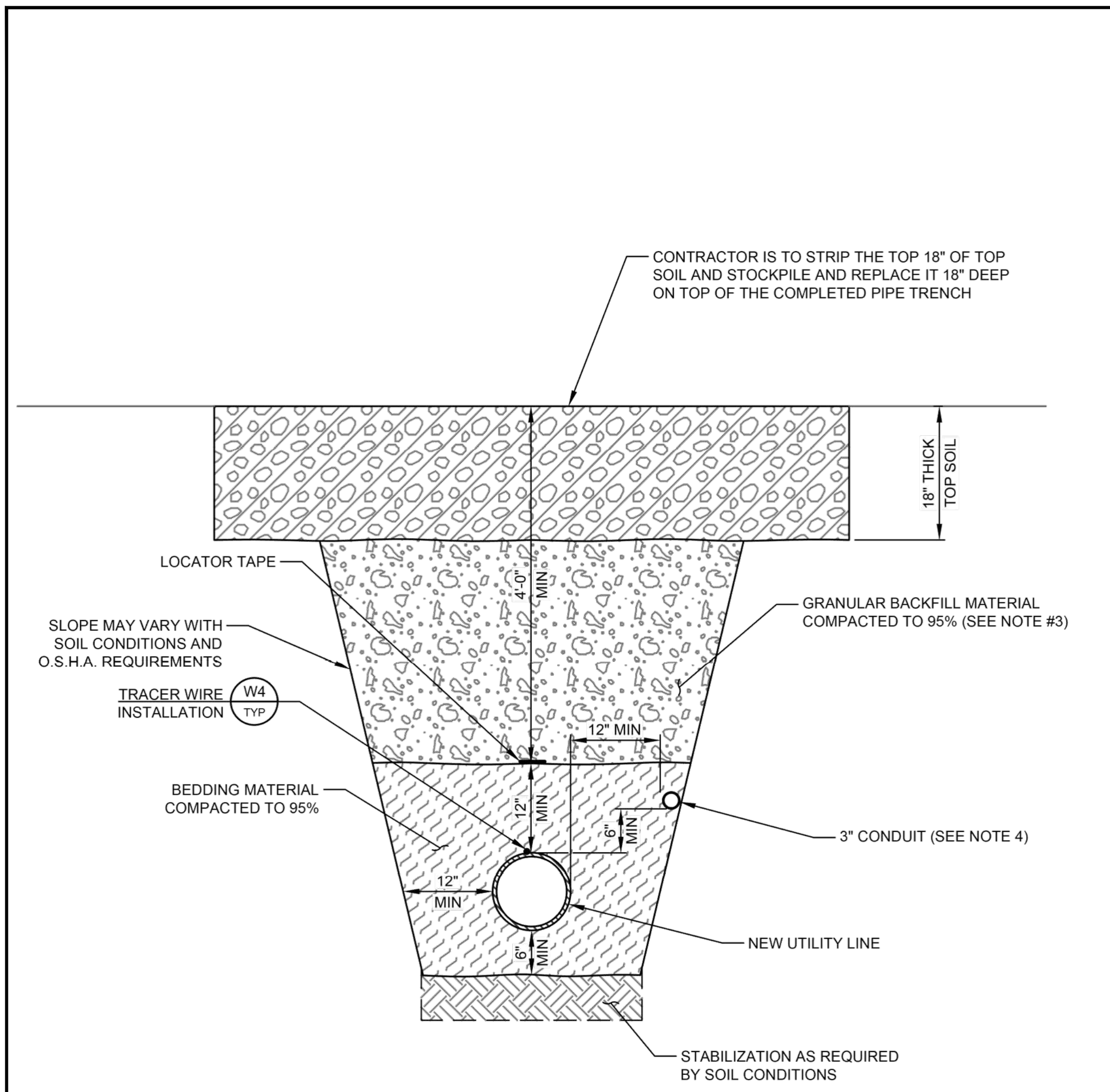
JOHN E. KEYSER
12894496-2202
12-2-24
STATE OF UTAH

SUNRISE
ENGINEERING

1180 N MOUNTAIN SPRING PKWY
SPRINGVILLE, UTAH 84663
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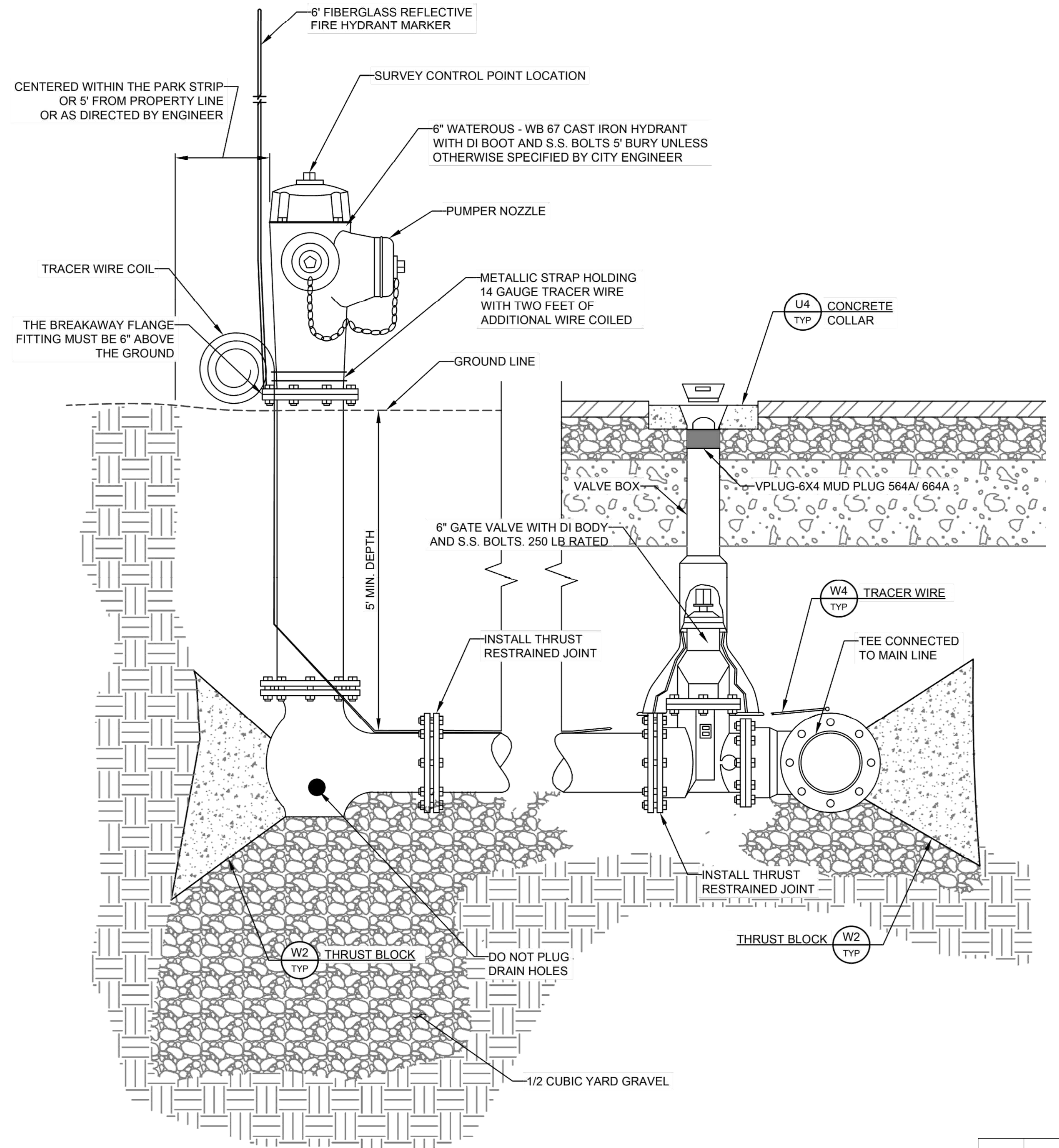
MIDWAY CITY
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS
DETAIL SHEETS

SEI NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	D1
S10315	KRM	KRM	DSA	29	



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 4. MIDWAY CITY MAY CHOOSE AT THE CITY'S EXPENSE TO INSTALL 3" CONDUIT WITHIN TRENCH FOR FUTURE USE.

U5
TYP N.T.S.
UTILITY INSTALLATION OUTSIDE OF EXISTING ROADWAY



- NOTES:**
1. FIRE HYDRANTS AT INTERSECTIONS MUST BE WITHIN 5' - 7' OF A STREET LIGHT WHEN POSSIBLE.
 2. ALL PIPE COUPLINGS AND FITTINGS ARE REQUIRED TO BE NEW MEGALUG RESTRAINED JOINT FITTINGS WITH STAINLESS STEEL BOLTS AND ANTI-SEIZE LUBRICANT.
 3. INSTALL VALVE EXTENSION IF OPERATING NUT GREATER THAN 4 FEET BELOW THE LID.

W1
TYP N.T.S.
STANDARD FIRE HYDRANT

811 Know what's below. Call before you dig. 1-800-662-4111

REV. NO.	COMMENT	DATE

REGISTERED PROFESSIONAL ENGINEER
JOHN KEYSER
12894496-2202
12-2-24
STATE OF UTAH

SUNRISE ENGINEERING

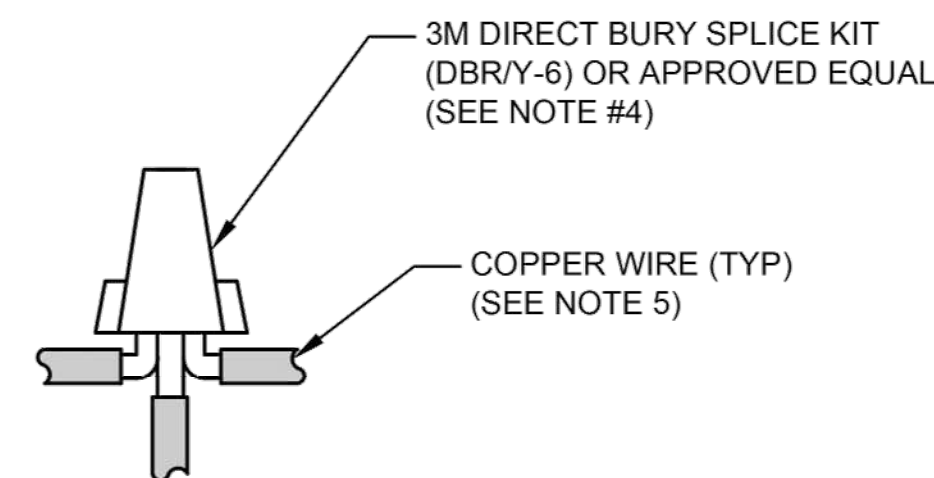
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MIDWAY CITY

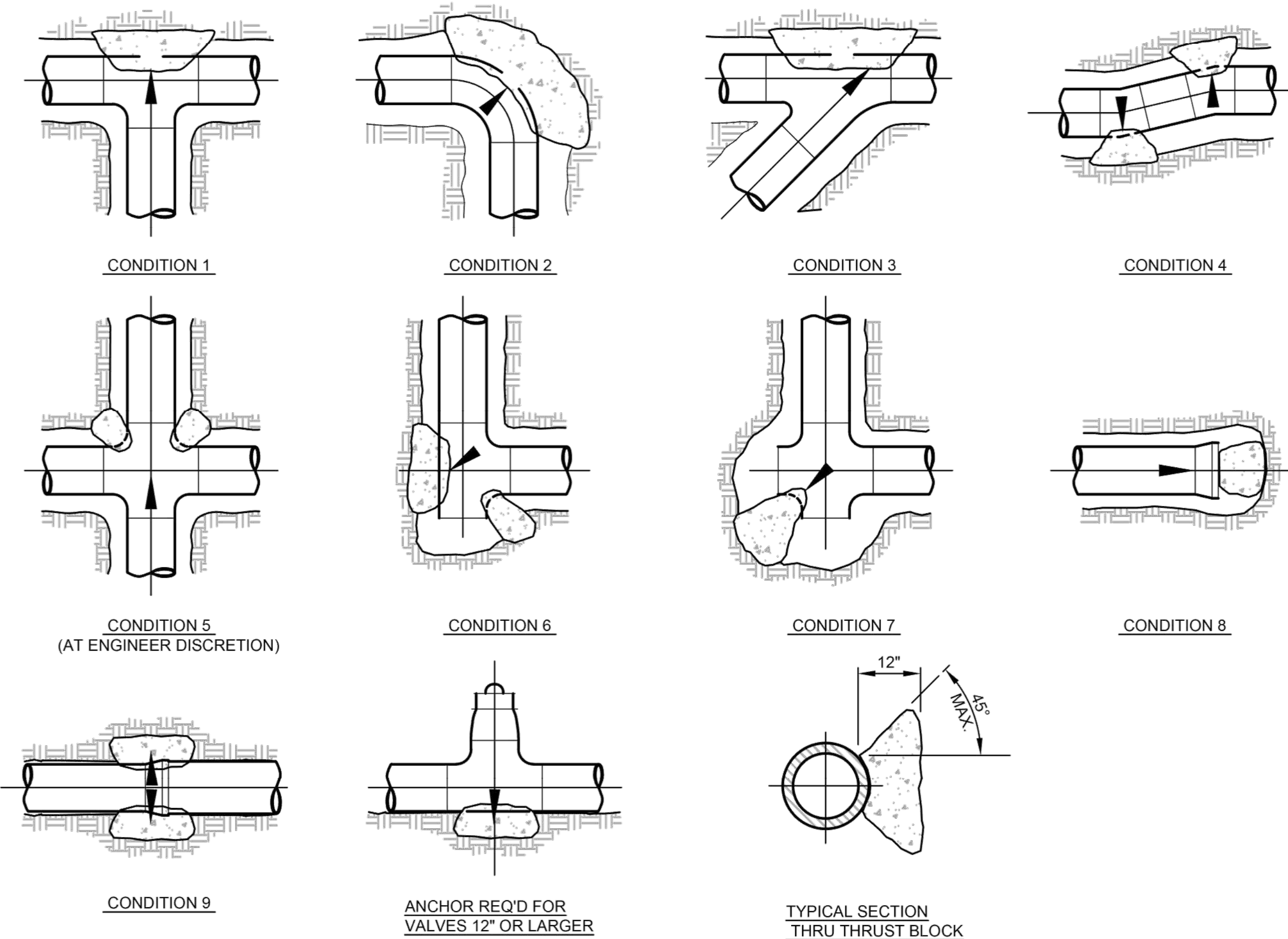
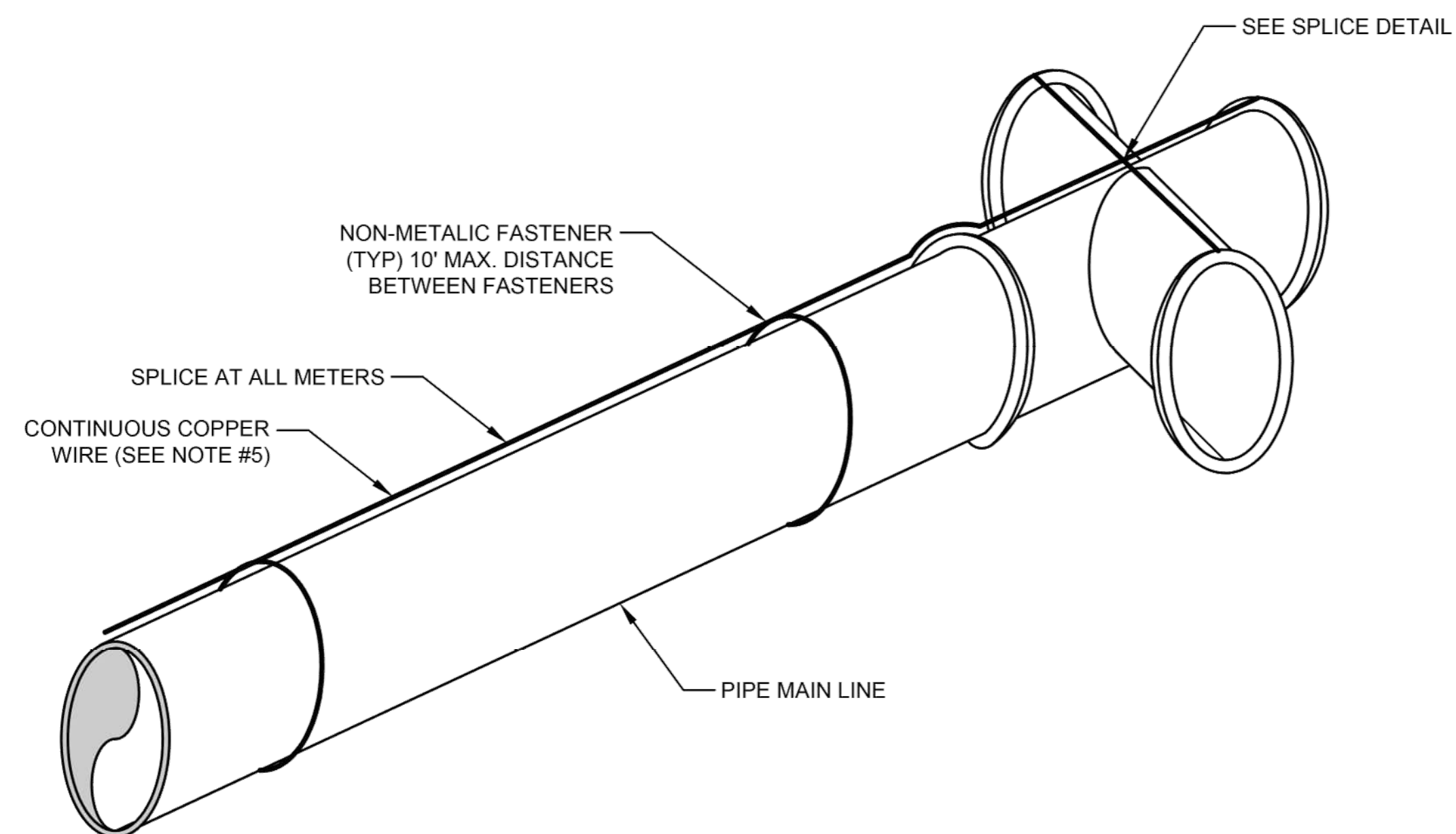
NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS

DETAIL SHEETS

SEI NO. S10315	DESIGNED KRM	DRAWN KRM	CHECKED DSA	SHEET NO. 30	D2
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SPLICE DETAIL



NOTES:

1. COPPER TRACER WIRE TO BE INSTALLED THE LENGTH OF PIPELINE AND EACH CULINARY SERVICE, AND SECONDARY SERVICE, ALONG EACH PRESSURIZED IRRIGATION PIPELINE AND SERVICE. TRACER WIRE TO BE BROUGHT UP IN AT LEAST ONE VALVE IN EACH INTERSECTION. TRACER WIRE TO BE BROUGHT TO THE END OF EACH FIRE HYDRANT ON CULINARY LINES. (NOT TO EXCEED 500 FEET).
2. TRACER WIRE TO BE INSTALLED ALONG EACH WATER SERVICE TO THE METER CAN.
3. TRACER WIRE TO BE INSTALLED AND MAINTAINED ON TOP OF PIPE CENTERLINE DURING BACKFILL.
4. SPLICE KIT USED TO ELECTRICALLY CONNECT TWO OR MORE PRESTRIPPED COPPER WIRES AND MOISTURE SEAL THE CONNECTION FOR DIRECT BURIAL. THE KIT SHALL INCLUDE A 3M (OR APPROVED EQUAL) PERFORMANCE PLUS WIRE CONNECTOR AND A HIGH IMPACT, UV RESISTANT POLYPROPYLENE TUBE PREFILLED WITH MOISTURE-RESISTANT GREASE.
5. COPPER WIRE SHALL BE #12 AWG SOLID UF TYPE WITH CROSS-LINKED POLYETHYLENE INSULATION.
6. CONTRACTOR SHALL TEST TRACER WIRE FOR CONTINUITY PRIOR TO PAVING IN THE PRESENCE OF THE ENGINEER.
7. THE TEE/CROSS IS SHOWN WITHOUT VALVES AND IS INTENDED TO SHOW TRACER WIRE ROUTING ONLY.
8. ALL PIPE COUPLINGS AND FITTINGS ARE REQUIRED TO BE NEW MEGALUG RESTRAINED JOINT FITTINGS ON PIPE MAIN LINE.
9. ALL BOLT KITS/ PACKS SHALL BE STAINLESS STEEL WITH ANTI-SEIZE LUBRICANT.
10. ANY FLANGED FITTING SHALL USE PAPER GASKET.

THRUST BLOCK BEARING AREA IN SQ. FT.									
PIPE SIZE	CONDITION								
	1	2	3	4	5	6	7	8	9
4	2.6	3.3	2.6	1.3	1.3	2.0	3.3	2.6	1.3
6	4.6	6.5	3.9	2.0	2.6	3.3	6.5	4.6	2.0
8	7.8	11.0	5.9	3.3	3.9	5.9	11.0	7.8	3.3
10	12.4	17.5	9.8	5.2	6.5	9.1	17.5	12.4	5.2
12	17.5	24.8	13.6	7.8	9.1	12.3	24.8	17.5	7.8
14	24.0	33.8	18.2	9.7	12.3	16.9	33.8	24.0	9.7
16	31.1	44.0	23.8	12.7	15.5	23.2	44.0	31.1	12.7
20	48.6	68.8	37.2	19.8	24.2	36.3	68.8	48.6	19.8
24	89.8	90.1	48.8	24.9					24.9

NOTES:

1. ALL THRUST BLOCK BEARING FACES SHALL BE Poured AGAINST UNDISTURBED SOIL OR APPROVED COMPACTED BACKFILL.
2. CONCRETE SHALL BE CLASS 6.0-B-3000. SEE SECTION 03304-2.06.
3. ALL THRUST BLOCK SIDES SHALL BE FORMED.
4. CALCULATED ON 225 LB. TEST PRESSURE AND ALLOWABLE BEARING PRESSURE OF 2000 LBS. PER SQUARE FEET.
5. IN POORER SOILS SPECIAL DESIGN IS REQUIRED.

W4 TRACER WIRE INSTALLATION
TYP N.T.S.

W2 TYPICAL PIPE THRUST BLOCKING
TYP N.T.S.

811 Know what's below.
Call before you dig.
1-800-662-4111

REV. NO.	COMMENT	DATE
1180 N MOUNTAIN SPRING PKWY SPRINGVILLE, UTAH 84663 TEL 801.704.5220 www.sunrise-eng.com		
MIDWAY CITY NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS DETAIL SHEETS		
SEI NO. S10315	DESIGNED KRM	DRAWN KRM
CHECKED DSA	SHEET NO. 31	D3

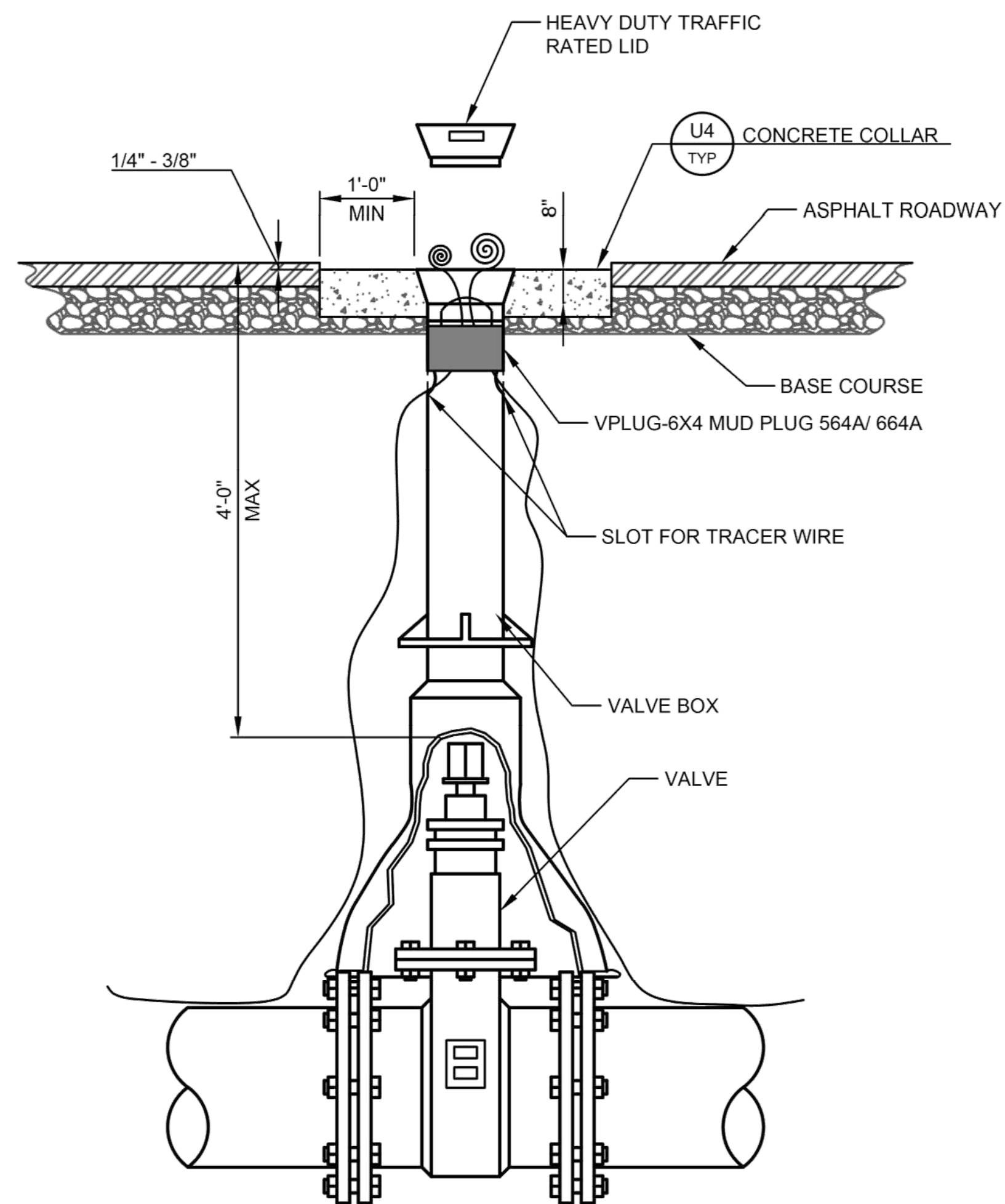
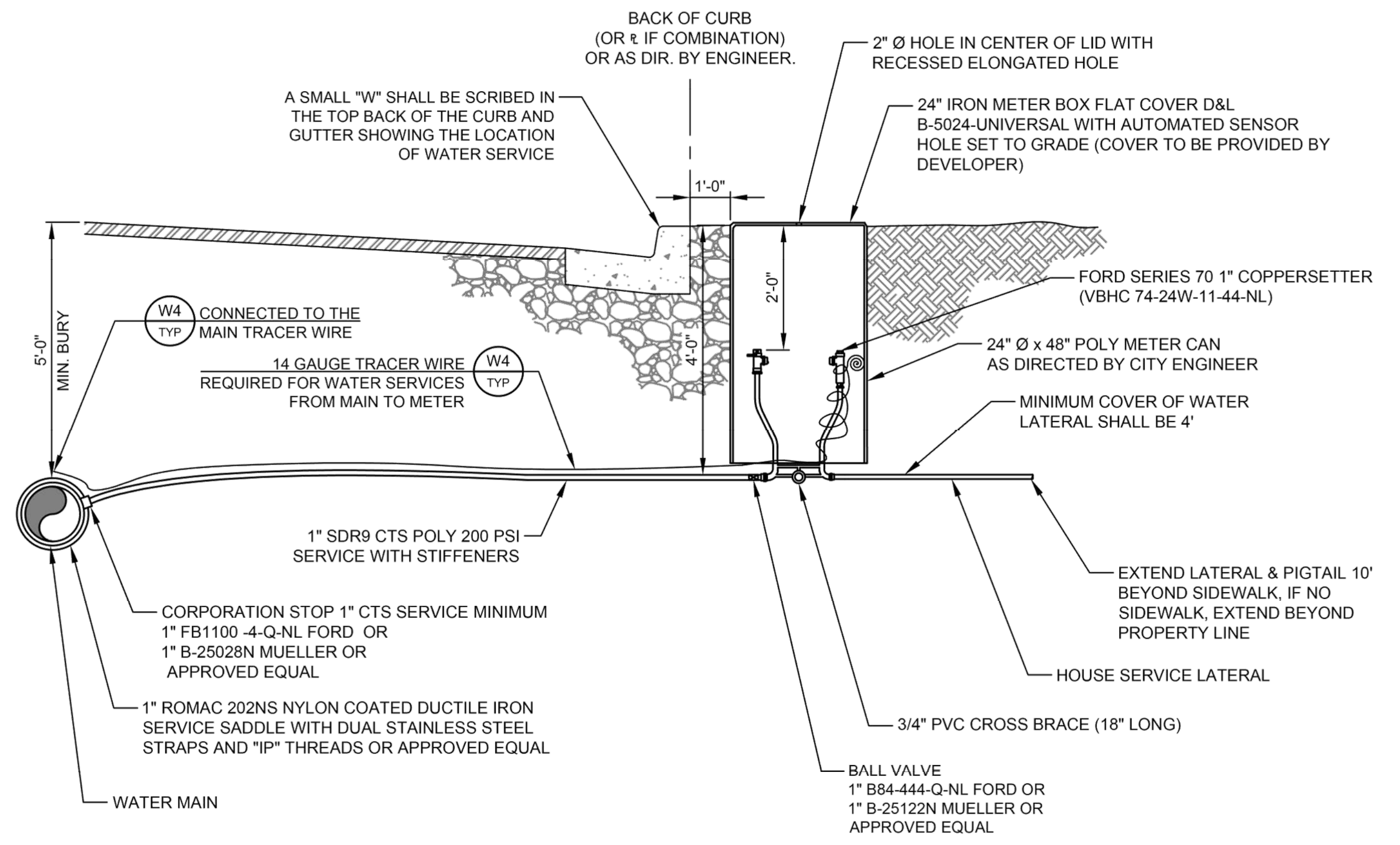
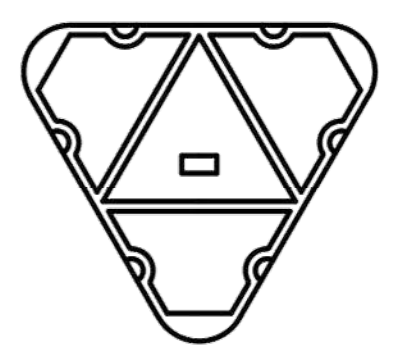


TABLE 1

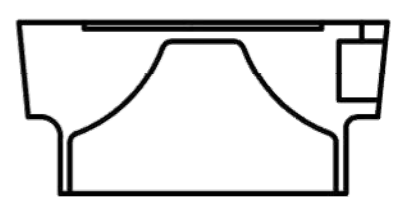
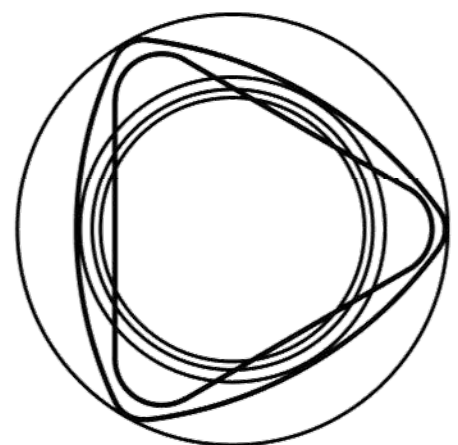
METER SIZE	MODEL
3/4"	VBHC72-24W
1"	VBHC74-24W



ALL IRRIGATION VALVE LIDS SHALL BE TRIANGULAR STYLE AND LABELED "IRRIGATION"



ALL CULINARY WATER VALVE LIDS SHALL BE CIRCULAR STYLE AND LABELED "WATER"



- NOTES:**
1. RAISE VALVE BOX TO GRADE AFTER PAVING OPERATIONS ARE COMPLETED.
 2. INSTALL VALVE EXTENSION IF OPERATING NUT GREATER THAN 4 FEET BELOW THE LID.

W3 VALVE BOX
TYP N.T.S.

- NOTES:**
1. METER BOX, COVER, COPPERSETTER, CORPORATION STOP, & SERVICE LINES TO BE FURNISHED AND INSTALLED BY CONTRACTOR/DEVELOPER.
 2. STAINLESS STEEL STIFFENERS ON ALL POLY CONNECTIONS.
 3. BALL VALVE SHALL BE ACCESSIBLE FROM INSIDE CAN.
 4. WATER METER WILL NOT BE INSTALLED IF METER CAN IS INSTALLED INCORRECTLY OR IN A DRIVEWAY.
 5. METER IS THE ONLY PART THAT IS PROVIDED BY THE CITY.

W5 WATER SERVICE CONNECTION
TYP N.T.S.

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REV. NO.	COMMENT	DATE

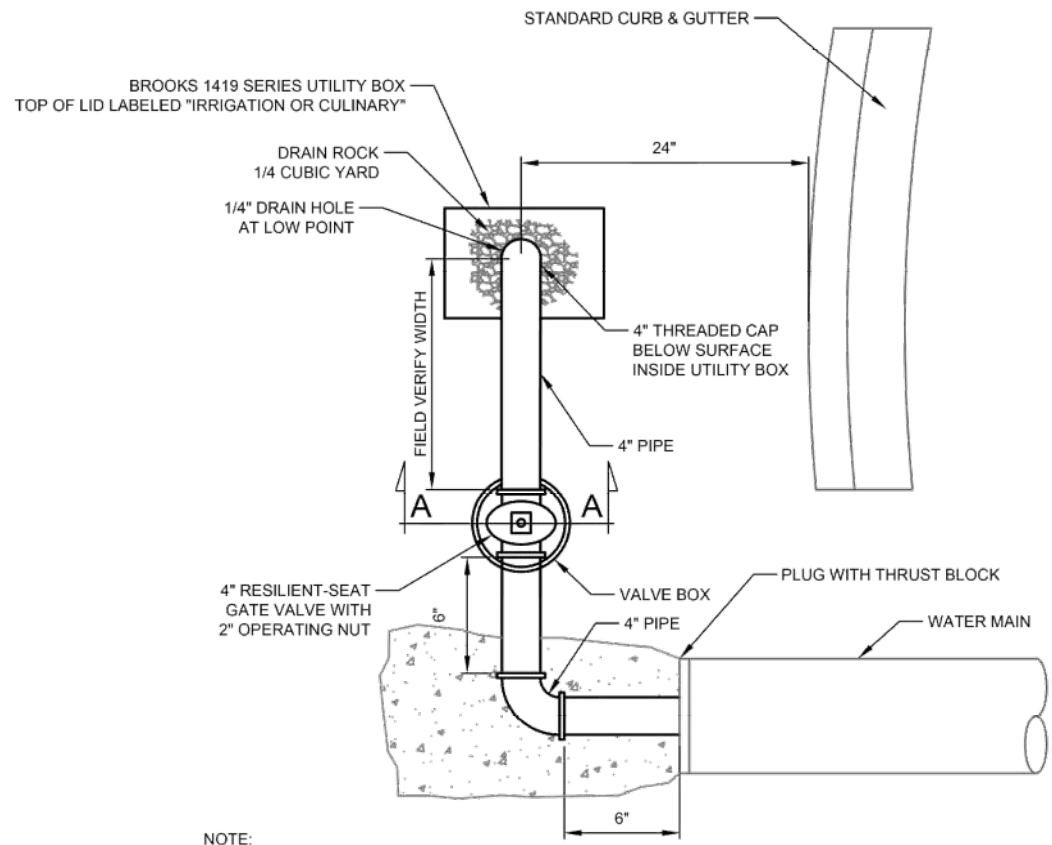
SUNRISE ENGINEERING

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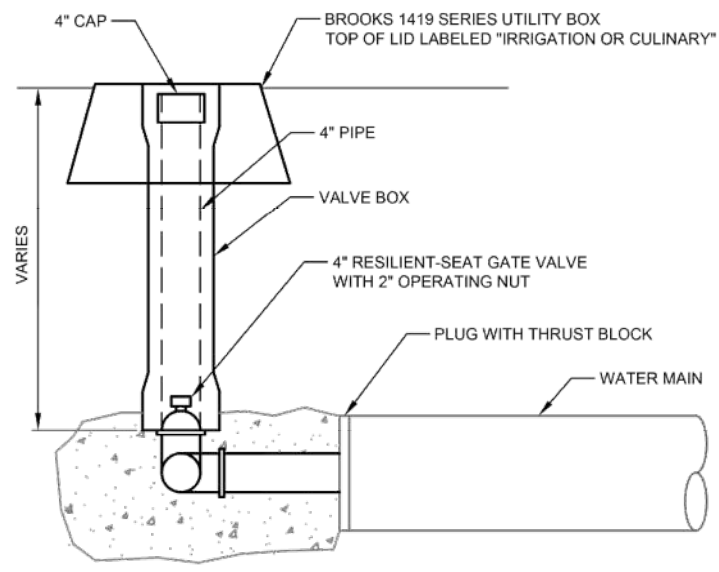
DETAIL SHEETS

SEI NO. S10315	DESIGNED KRM	DRAWN KRM	CHECKED DSA	SHEET NO. 32	D4
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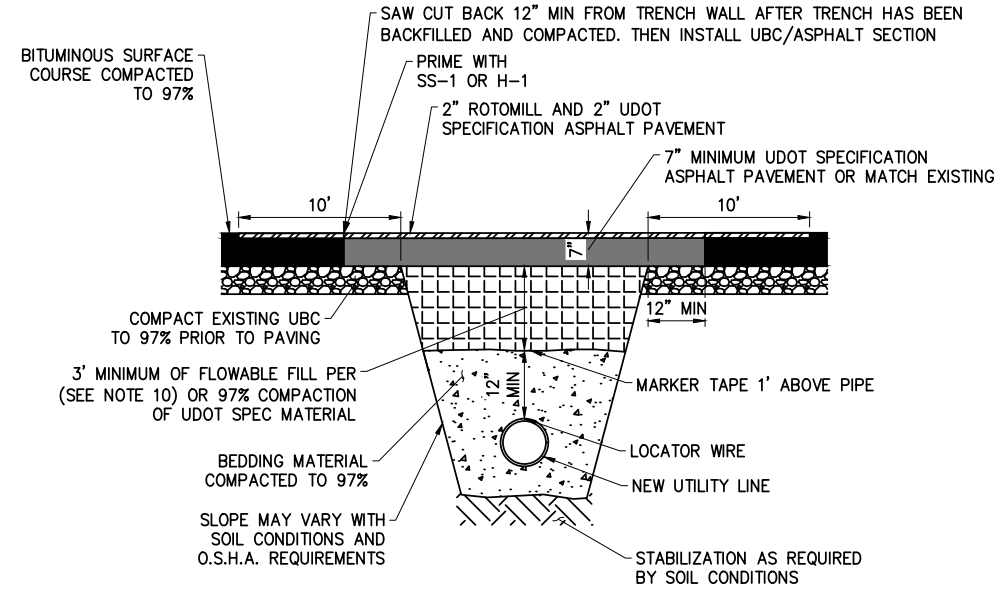
NOTE:
ALL PIPES AND FITTINGS TO BE
BRASS OR STAINLESS STEEL.

PLAN VIEW



SECTION A-A

W8 TEMPORARY FLUSH VALVE
TYP N.T.S.



A UTILITY INSTALLATION IN EXISTING UDOT ROADWAYS
NOT TO SCALE

NOTES

1. COMPACTED BEDDING MATERIAL SHALL CONSIST OF SAND, OR 3/4" DRAIN ROCK.
2. MATERIALS, METHOD & COMPACTION SHALL BE APPROVED BY ENGINEER AND COMPLY W/ UDOT SPECS.
3. PEA GRAVEL AND COURSE SAND SHALL ONLY BE ALLOWED W/ ENGINEER'S APPROVAL.
4. USE OF NATIVE MATERIAL FOR BACKFILL IS PROHIBITED (EXCEPT AS APPROVED BY THE CITY ENGINEER AND UDOT WITH FULL TIME TESTING AND INSPECTION).
5. USE PROPER MARKER TAPE AS APPROVED BY CITY ENGINEER.
6. INSTALL TRACER WIRE AS PER CITY OF MIDWAY STANDARD DRAWING.
7. TRENCHES LESS THAN 2 FOOT WIDE MAY USE FLOWABLE-FILL OR SAND WITH HOT MIX TOP AND TACKED EDGES WITH CITY APPROVAL, AND UDOT APPROVAL.
8. REPLACE ALL PAVEMENT MARKINGS IN KIND (TAPE WITH TAPE AND PAINT WITH PAINT). INSTALL ALL PAINT LINES WITH PERMANENT PAINT APPLICATION PER UDOT SPECIFICATION 02765.
9. BEFORE COMMENCING WORK ON THE STATE HIGHWAY, THE CONTRACTOR IS REQUIRED TO OBTAIN AN ENCROACHMENT PERMIT ACCOMPANIED BY A TRAFFIC CONTROL PLAN FROM THE APPLICABLE REGION'S PERMITS OFFICE BEFORE WORKING WITHIN THE STATE RIGHT-OF-WAY.
10. FOR ALL PERPENDICULAR ROAD CUTS, USE FLOWABLE FILL PER UDOT'S CURRENT MIX DESIGN (50-150 PSI) UDOT SPEC. 03575.
11. FOR EXCAVATIONS OUTSIDE OF THE ROADWAY, BACK FILL WITH UDOT APPROVED GRANULAR BORROW AND ROAD BASE. COMPACTION PER UDOT SPEC. 2056 AND 2721.
12. THE CONTRACTOR IS REQUIRED TO HIRE AN INDEPENDENT COMPANY FOR ALL TESTING WITHIN THE UDOT RIGHT-OF-WAY.
13. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE UDOT RIGHT-OF-WAY THAT MAY BE DIRECTLY OR INDIRECTLY CAUSED BY THE DEVELOPMENT ACTIVITY.
14. ALL ABOVE GROUND FEATURES INCLUDING UTILITIES (POLES, FIRE HYDRANTS, BOXES, ETC.) MUST BE RELOCATED OUT OF THE AASHTO CLEAR ZONE OR A MINIMUM OF 18" BEHIND CURB.
15. CONTRACTOR SHALL COORDINATE WITH UDOT TO DETERMINE ALLOWED WORK TIMES AND ALLOWED LANE CLOSURES OR SHOULDER WORK DURING DAYTIME HOURS.

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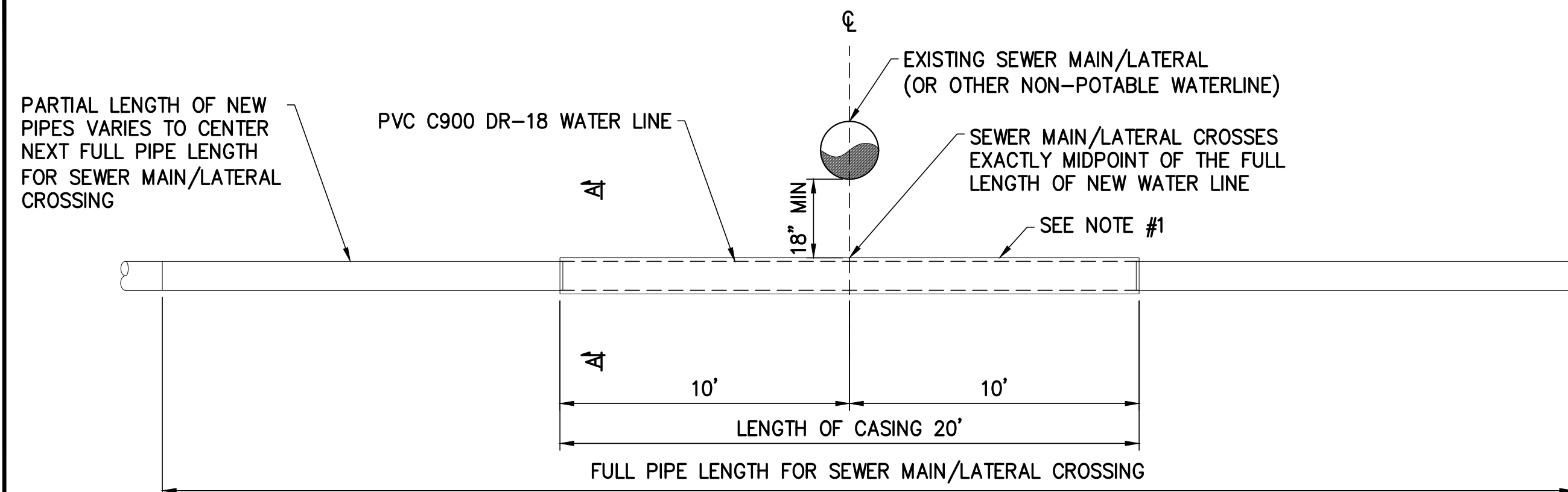
JOHN E. KEYSER
12894496-2202
12-2-24
STATE OF UTAH

SUNRISE
ENGINEERING

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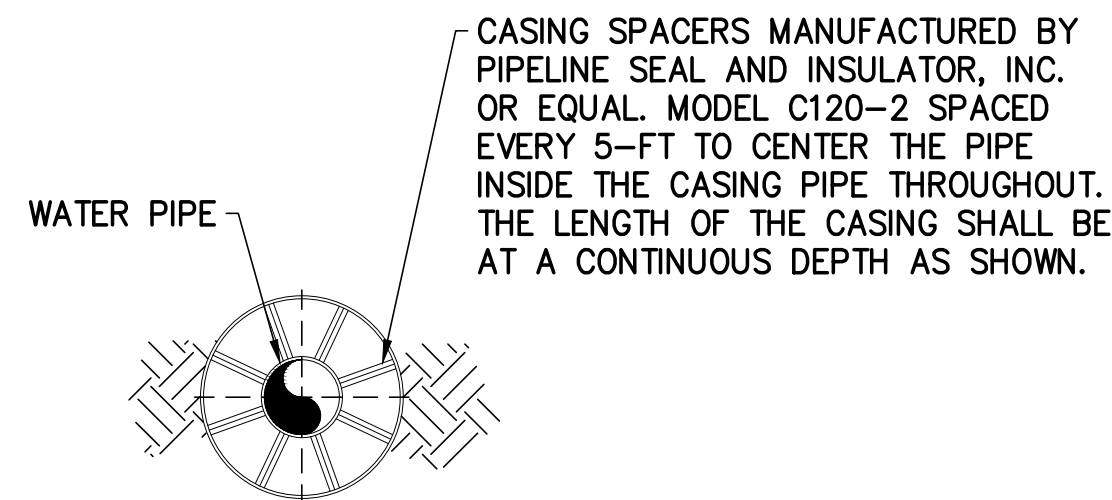
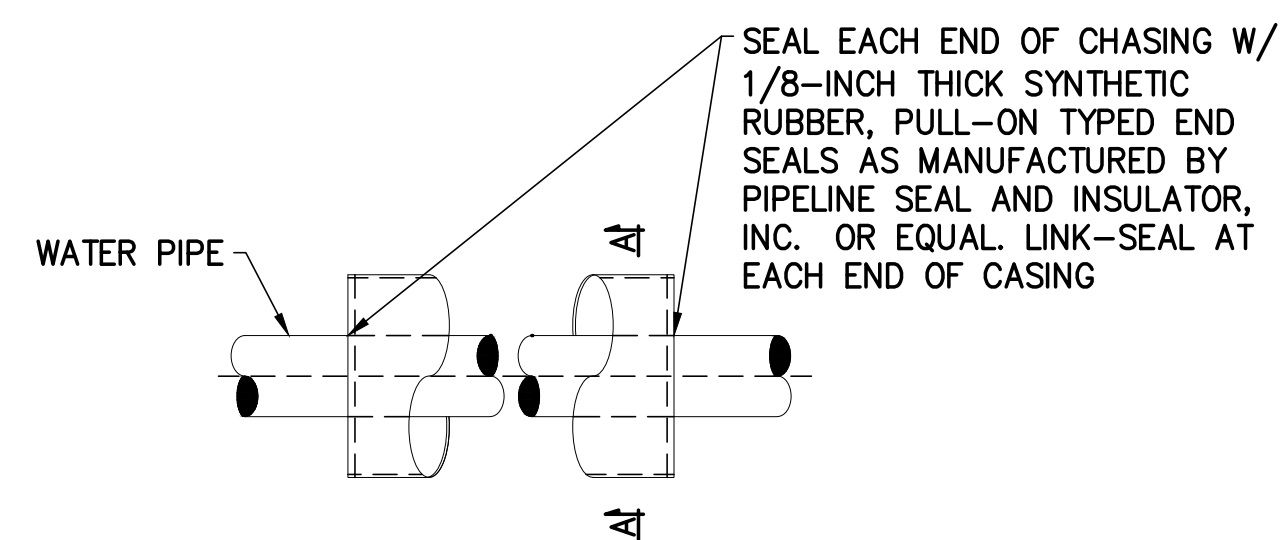
SEI NO. S10315	DESIGNED KRM	DRAWN KRM	CHECKED DSA	SHEET NO. 33	D5
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NOTES

1. CASING ONLY REQUIRED WHEN CROSSING UNDER OR WITHIN 18" OF SEWER LINES OR OTHER NON-POTABLE WATERLINE.

PLAN

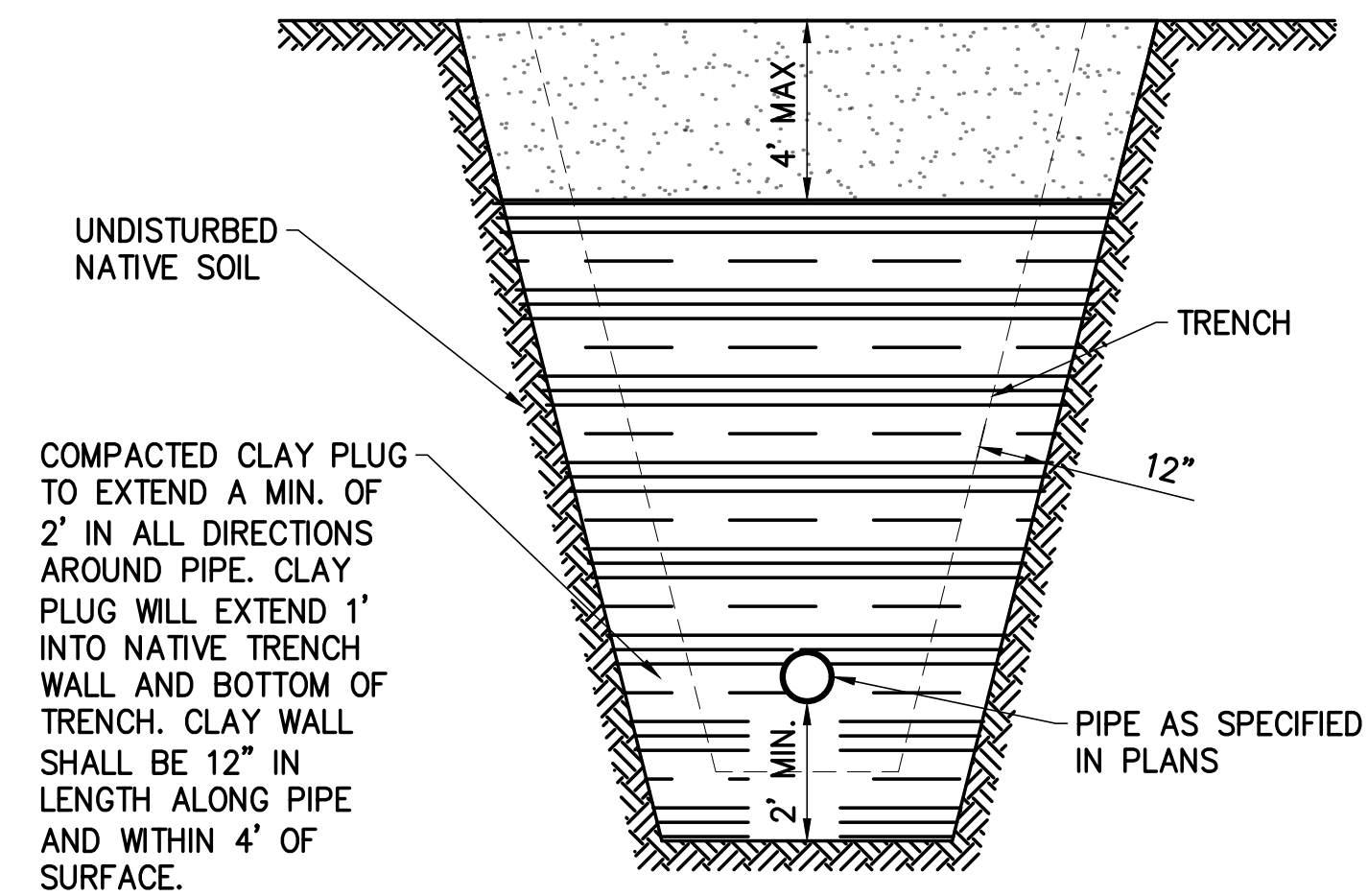


SECTION A-A

NOTES

1. CARRIER PIPE SHALL BE TESTED BEFORE SEALING THE ENDS OF THE CASING.
2. SPACERS SHALL BE SECURELY ATTACHED TO CARRIER PIPE PER MANUFACTURER'S REQUIREMENTS.
3. CASING PIPE SHALL BE A53 GRADE STEEL CASING WITH 0.375" MINIMUM THICKNESS. SIZE AS SPECIFIED ON PLANS.
4. CASING SHALL BE CENTERED ON EXISTING UTILITY.
5. JOINT RESTRAINTS FOR JOINTS INSIDE OF THE CASING ARE REQUIRED.

A AREA OF SPECIAL CONSTRUCTION DETAIL
~ NOT TO SCALE



B CLAY CUTOFF WALL
~ NOT TO SCALE

811 Know what's below. Call before you dig. 1-800-662-4111

REV. NO.	COMMENT	DATE

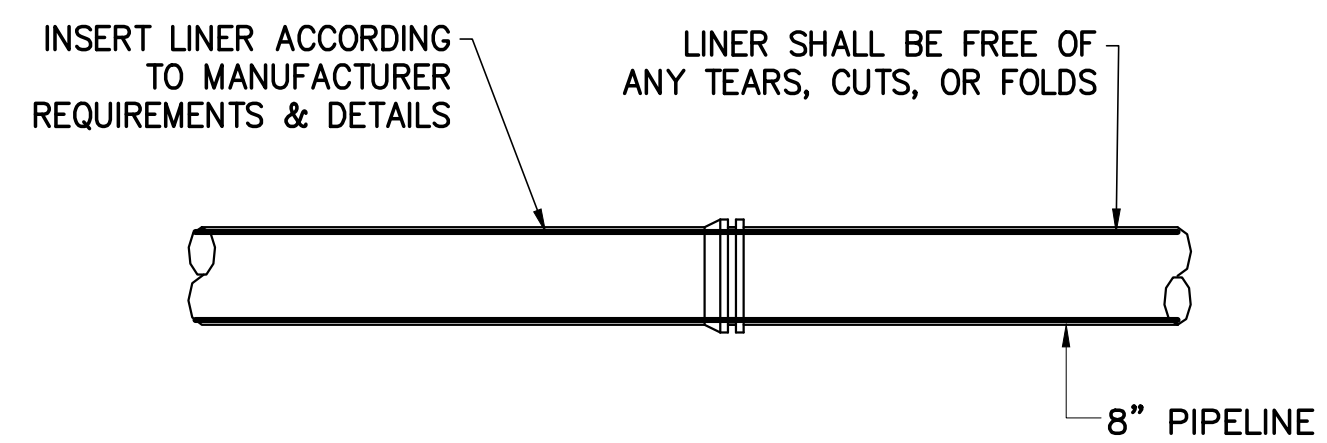
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STATE OF UTAH

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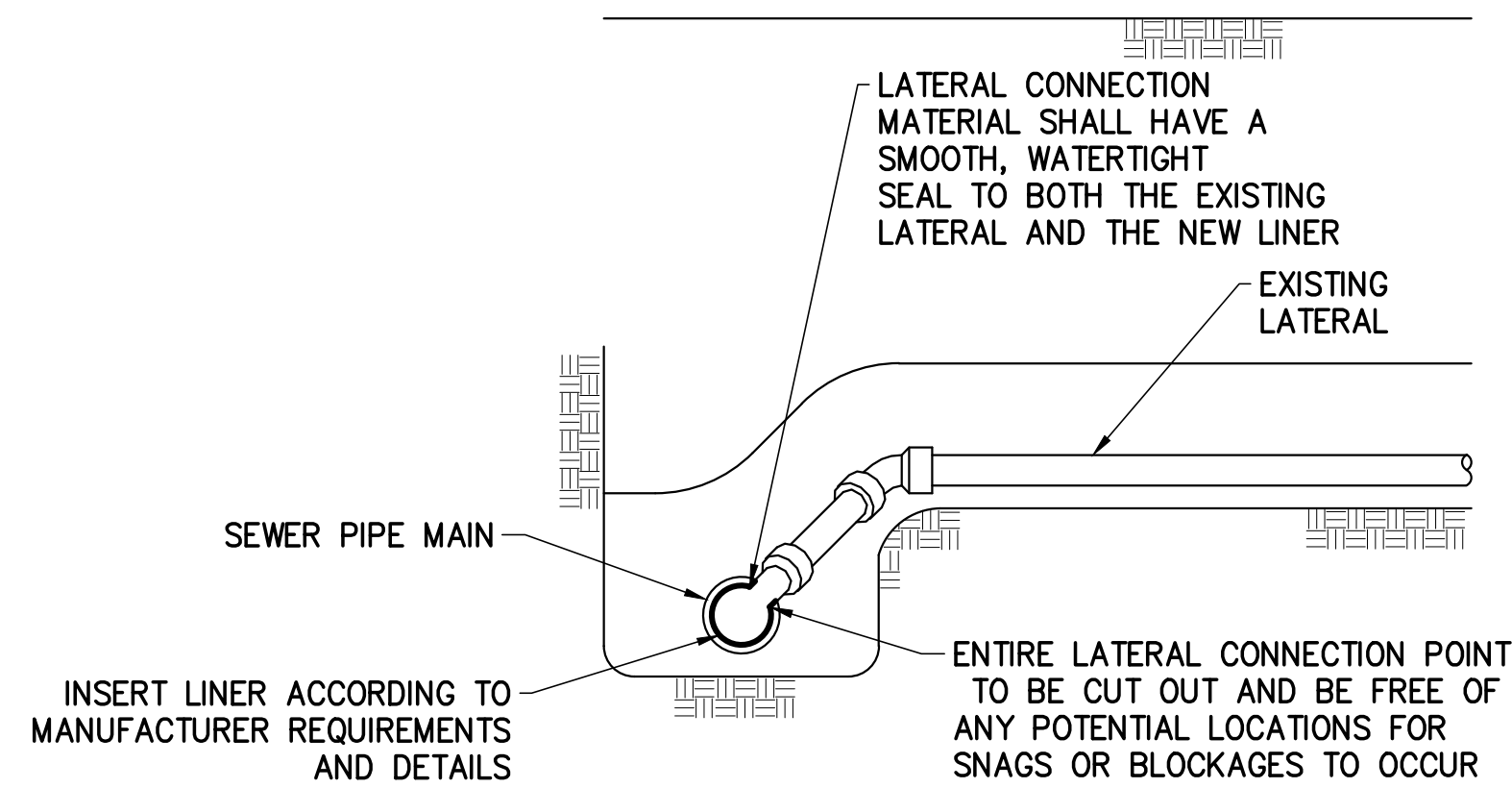
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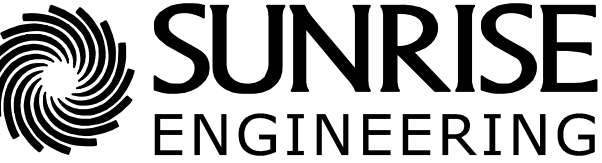


A DETAIL - SEWER PIPE LINING
TYP NOT TO SCALE



B DETAIL - SEWER LATERAL TO LINING CONNECTION
TYP NOT TO SCALE

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NORTH CENTER STREET-WATER & SEWER IMPROVEMENTS		
DETAIL SHEETS		
SEI NO. S10315	DESIGNED JCK	DRAWN JCK
CHECKED DSA	SHEET NO. 35	D7