Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

Vicinity Map

Scope of Work

Installation of new 8-inch C900 PVC pipe to connect dead end lines and eliminate sections of un-looped lines. Replacement of all fire hydrants, water service lines to the meter, valves, and reconnections within the project area.

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Project Engineer

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Owner

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60% Progress Set
July 2025

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Town of Dolores
Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_ Cover

Title: Cover

Dwg No. G-1

Of : 69

GENERAL REQUIREMENTS:

1. TOWN OF DOLORES WILL PROVIDE TEMPORARY WATER SERVICE TO RESIDENCES DURING CONSTRUCTION. CONTRACTOR TO COORDINATE SCHEDULE WITH DOLORES.
2. WATER SERVICE TO BE REPLACED FROM MAIN THROUGH METER UNLESS OTHERWISE NOTED IN PLANS. THE TOWN OF DOLORES TO PROVIDE NEW METERS WHERE APPLICABLE.
3. WORK SHALL MEET STANDARDS SET BY THE PROJECT'S JURISDICTIONS OF AUTHORITY. THIS INCLUDES BUT IS NOT LIMITED TO HOA STANDARDS, SPECIAL DISTRICT STANDARDS, CITY/TOWN STANDARDS, COUNTY STANDARDS, AND STATE STANDARDS.
4. THE CONTRACTOR AND SUBCONTRACTORS SHALL HAVE A COPY OF ALL APPLICABLE STANDARDS, CURRENT APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS ON SITE AT ALL TIMES.
5. ALL WORK SHALL BE DONE TO THE HORIZONTAL AND VERTICAL INFORMATION SHOWN ON THE PLANS. NO FIELD CHANGES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
6. THE DESIGN IS BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. THIS INCLUDES BUT IS NOT LIMITED TO SITE CONDITIONS, FEATURES AND STRUCTURES, AND TOPOGRAPHICAL INFORMATION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FEATURES SHOWN. THE CONTRACTOR SHALL REVIEW AND VERIFY EXISTING PHYSICAL FEATURES AND ELEVATIONS OF THE CONDITIONS TO BE ENCOUNTERED DURING CONSTRUCTION.
7. ANY DISCREPANCY WITHIN THESE PLANS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
8. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER, AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
9. WORK INSIDE PUBLIC RIGHT-OF-WAY WILL REQUIRE APPROVAL FROM THE JURISDICTION OF AUTHORITY PRIOR TO CONSTRUCTION. USE OF PRIVATE PROPERTY FOR THE PROJECT OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE APPROVED IN WRITING BY THE PROPERTY OWNER WITH A COPY OF THIS APPROVAL PROVIDED TO THE ENGINEER PRIOR TO USAGE.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY PERFORMING ALL WORK IN ACCORDANCE WITH APPLICABLE OSHA STANDARDS AND REGULATIONS.
11. THE ENGINEER AND OWNER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
12. ALL PUBLIC AND PRIVATE UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS (OR AS REQUIRED BY UTILITY COMPANIES) PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY.
13. ALL KNOWN SERVICES WHICH TIE INTO THE EXISTING MAIN ARE SHOWN. ANY ACTIVE SERVICE WHICH IS NOT SHOWN BUT TIES INTO THE MAIN SHALL BE REPLACED AND TIED INTO THE NEW MAIN. ADDITIONAL SERVICE REPLACEMENTS WILL BE PAID FOR THROUGH AN APPROVED CHANGE ORDER. ALL SERVICE RECONNECTIONS SHALL BE INSPECTED BY AUTHORIZED TOWN PERSONNEL.
14. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE OWNER AND THEIR ASSIGNED REPRESENTATIVE. THE OWNER AND THEIR ASSIGNED REPRESENTATIVE RESERVE THE RIGHT TO ACCEPT OR REJECT ANY MATERIALS AND WORKMANSHIP THAT DO NOT CONFORM TO THE PLANS OR SPECIFICATIONS.
15. THE APPROXIMATE LOCATION OF ALL KNOWN SHALLOW UTILITIES ARE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL CONTACT ALL UTILITY OWNERS TO VERIFY BOTH LOCATION AND DEPTH OF UTILITIES BEFORE ANY WORK BEGINS. CONTRACTOR SHALL BEAR THE RESPONSIBILITY FOR THE PROTECTION OF UTILITIES DURING CONSTRUCTION. NO ADDITIONAL PAYMENT WILL BE MADE FOR UTILITIES LOCATED BUT NOT SHOWN IN DRAWINGS.
16. FOLLOW ALL CDPHE REGULATIONS FOR WATER, STORM, AND SEWER LINE CROSSINGS.
17. THE CONTRACTOR WILL BE RESPONSIBLE FOR RESTORING ANY HARDSCAPED AREAS (CONCRETE, ASPHALT, PAVERS, ETC.) DISTURBED DURING THE INSTALLATION OF WATER SERVICES TO EXISTING CONDITIONS.
18. CONTRACTOR SHALL POTHOLE ALL TIE-INS AND MISCELLANEOUS UTILITIES THAT WILL CROSS OR PARALLEL THE LINE PRIOR TO INSTALLING NEW LINE. IF GRADE CONFLICTS OCCUR, CONTACT ENGINEER.
19. EXISTING UTILITY LINE TO BE ABANDONED BY FILLING END OF PIPE WITH 5' FLOW FILL.
20. EXISTING VALVES ARE TO BE ABANDONED BY CLOSING VALVE AND REMOVING VALVE BOXES.
21. EXISTING FIRE HYDRANTS ARE TO BE ABANDONED BY REMOVING HYDRANT ASSEMBLY DOWN TO HORIZONTAL PIPE, FILLING PIPE WITH 5' FLOW FILL AND BACKFILLING TO EXISTING GRADE WITH ROADBASE COMPACTED TO 95% STD. PROCTOR DENSITY.
22. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE A SUFFICIENT NUMBER OF PRE-CONSTRUCTION PHOTOGRAPHS/VIDEOS TO RESOLVE ANY DISPUTES, WHICH MAY ARISE REGARDING THE CONDITIONS PRIOR TO AND SUBSEQUENT TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE COPIES OF THE PRE-CONSTRUCTION PHOTOGRAPHS/VIDEOS TO THE ENGINEER PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL IDENTIFY ANY APPARENT POTENTIAL PROBLEMS AT THAT TIME.
23. PROGRESS AND RECORD PHOTOGRAPHS/VIDEOS SHALL BE PROVIDED BY THE CONTRACTOR TO RESOLVE DISPUTES AND TO DOCUMENT THE WORK PERFORMED AS A SUPPLEMENT TO THE RECORD DRAWINGS. IN GENERAL, ANY PHOTOGRAPHS/VIDEOS SHOULD BE SUFFICIENT TO SHOW THAT ALL WORK WAS PROPERLY COMPLETED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
24. AT NO TIME SHALL MATERIALS BE SUBSTITUTED FOR THOSE SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER PRIOR TO RELATED CONSTRUCTION AT THE SITE. ANY DEVIATION FROM THE DRAWINGS AND SPECIFICATIONS SHALL BE ACCOMPANIED BY WRITTEN APPROVAL OF THE ENGINEER.
25. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY FACILITIES FOR THEIR OWN CONVENIENCE OR TO MEET LOCAL, STATE OR FEDERAL REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO, POTABLE WATER, SANITARY WASTE FACILITIES, POWER, TELEPHONE, INTERNET, ETC. SANITARY FACILITIES SHALL BE LOCATED ON SITE AND SHALL BE FULLY OPERATIONAL BEFORE CONSTRUCTION CAN BEGIN. SANITARY FACILITIES SHALL BE FIRMLY SECURED AGAINST OVERTURNING AND SHALL BE PLACED AWAY FROM FLOW LINES OF STREETS, SWALES, RAIN GARDENS AND AWAY FROM INLETS. THE COST OF THESE FACILITIES WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
26. THE CONTRACTOR WILL BE RESPONSIBLE FOR DAILY CLEANING OF THE JOB SITE DURING AND AFTER CONSTRUCTION. A CONTINUING EFFORT SHALL BE MADE THROUGH THE DURATION OF THE CONTRACT TO KEEP ALL AREAS CLEAN AND FREE OF ALL RUBBISH, REMOVED VEGETATION, CONSTRUCTION WASTE, EMPLOYEE WASTE, AND OTHER OBJECTIONABLE MATERIALS GENERATED FROM THE PROJECT. WEEDS SHALL BE REMOVED IN DISTURBED AREAS PRIOR TO THEIR PRODUCING SEED AND PRIOR TO FINISHED GRADING AND LANDSCAPING INSTALLATION.
27. FINAL CLEAN-UP MUST BE APPROVED AND ACCEPTED BY THE OWNER BEFORE THE CONTRACT MAY BE CONSIDERED COMPLETE.
28. THE CONTRACTOR SHALL MAINTAIN TWO FULL SETS OF CONTRACT DRAWINGS MARKED UP TO INDICATE THE AS-BUILT CONDITIONS. THE DRAWINGS SHALL BE PROVIDED TO THE OWNER AND THE ENGINEER UPON COMPLETION OF THE WORK. WHERE PRACTICAL, THE CONTRACTOR IS TO PROVIDE AT LEAST TWO TIES FROM PHYSICAL MONUMENTS TO ALL FITTINGS, VALVES, MANHOLES, AND THE END OF ALL SERVICE LINES.

ACCESS, TRAFFIC CONTROL, AND PROTECTION REQUIREMENTS:

1. PROPERTY OWNER ACCESS SHALL BE MAINTAINED OUTSIDE OF WORKING HOURS BY THE CONTRACTOR.
2. IF TRAFFIC CONTROL IS NECESSARY, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL BY THE JURISDICTION OF AUTHORITY OR ENGINEER. TRAFFIC CONTROL PLAN SHALL INCLUDE METHODS OF HANDLING TRAFFIC (MHT'S) APPLICABLE TO THE WORK.
3. ALL CONSTRUCTION TRAFFIC CONTROL SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
4. MAINTAIN ACCESS TO OTHER STRUCTURES AT ALL TIMES. TEMPORARY CLOSURE ALLOWED FOR UTILITY WORK – PROVIDE EMERGENCY ACCESS CONTINUOUSLY.
5. PROVIDE SAFETY CONES, FLAG PERSONS, VERTICAL PANELS WITH BEACONS, SIGNAGE AND BARRICADES AS NECESSARY TO PROTECT PUBLIC AND WORK SITE.
6. PROVIDE SIGNAGE AS REQUIRED BY OWNER AND LOCAL GOVERNMENT WITH JURISDICTION OVER ADJACENT ROADS, IN ACCORDANCE WITH THE MUTCD STANDARDS.
7. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL TREES, BUSHES, AND EXISTING IMPROVEMENTS INSIDE AND OUTSIDE THE LIMITS OF WORK NOT CALLED OUT FOR REMOVAL OR REPLACEMENT.
8. TREES AND VEGETATION SHALL BE PROTECTED WITH INSTALLATION OF CONSTRUCTION FENCING AT DRIP LINE OF TREES AND PLANTS NEAR THE WORK ZONE. HAND EXCAVATION REQUIRED AT ROOT ZONES WHERE PROPOSED PAVING OR UTILITY WORK IS WITHIN DRIPLINE OF TREES. TREES AND VEGETATION THAT ARE NOTED FOR PROTECTION AND DAMAGED SHALL BE REPLACED AT THE CONTRACTOR'S COST.
9. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL AFFECTED OR DAMAGED LANDSCAPING, INCLUDING IRRIGATION, WITH SIMILAR MATERIALS AND PLANTS. SOD SHALL BE USED TO REPLACE LAWN.
10. THE CONTRACTOR SHALL PROTECT THE EXISTING DRAINAGE STRUCTURES AND REROUTE ANY RUNOFF AS NECESSARY DURING CONSTRUCTION ACTIVITIES TO PREVENT EROSION AND DAMAGE.
11. ALL EXISTING UTILITIES, EITHER UNDERGROUND OR OVERHEAD, SHALL BE MAINTAINED IN CONTINUOUS SERVICE THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE AND LIABLE FOR ANY DAMAGE TO, OR INTERRUPTION OF SERVICES CAUSED BY THE CONSTRUCTION.

DEMOLITION AND REMOVAL NOTES:

1. ALL SIGNS REMOVED FROM THE RIGHT-OF-WAY DURING CONSTRUCTION WILL BE STORED ONSITE OR RETURNED TO THE JURISDICTION, AS DIRECTED. CONTRACTOR TO RECORD PHOTOS OF THE AREA AND REINSTALL SIGNS TO THEIR ORIGINAL LOCATION.
2. SAWCUT ALL ASPHALT AND CONCRETE PAVEMENT TO BE REMOVED. FINAL LIMITS OF REQUIRED SAWCUTTING AND PATCHING MAY VARY FROM LIMITS SHOWN ON PLANS. CONTRACTOR TO PROVIDE SAWCUT AND PATCH WORK TO ACHIEVE POSITIVE DRAINAGE AND A SMOOTH TRANSITION TO EXISTING ASPHALT WITHIN SLOPES ACCEPTABLE TO THE ENGINEER AND WITHIN MUNICIPAL STANDARDS. CONTRACTOR SHALL PROVIDE ADDITIONAL SAWCUTTING AND PATCHING AT UTILITY WORK, CONNECTION POINTS TO EXISTING PAVEMENT AND FEATURES, ETC. THAT MAY NOT BE DELINEATED ON PLANS.
3. ALL EXCESS MATERIALS GENERATED FROM THE SITE ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY.

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Drawn by:	SKR
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Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Title:

General Notes

Dwg No.

G-2

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ASPHALT NOTES:

1. A TACK COAT OF EMULSIFIED ASPHALT (SLOW–SETTING) SHALL BE APPLIED AT THE FOLLOWING LOCATIONS:
   - BEFORE PLACING NEW PAVEMENT OVER EXISTING PAVEMENT
   - ALONG THE FACE OF ALL EXISTING PAVEMENT, AND ALL SURFACES AGAINST WHICH ASPHALT IS TO BE PLACED BETWEEN PAVEMENT COURSES
   - PREPARED BASE COURSES SHALL BE TACK COATED AT CONTRACTOR'S EXPENSE IF THE SURFACE HAS DETERIORATED DUE TO TRAFFIC, WEATHER OR TIME LAPSE BETWEEN SURFACE PREPARATION AND PLACEMENT OF BITUMINOUS MATERIALS, AS DIRECTED BY THE ENGINEER.
2. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT (SLOW–SETTING) AND 1 PART WATER. APPLICATION RATE SHALL BE 0.1 GALS/SQ.YD.
3. BEFORE PLACEMENT OF THE TACK COAT, THE CONTRACTOR SHALL CLEAN THE SURFACES TO BE TACK COATED. SURFACES SHALL BE APPROVED BY ENGINEER PRIOR TO TACK COATING. CLEANING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
4. THE FOLLOWING SHALL BE USED WITH EACH BITUMINOUS PAVER:
   - A SKI–TYPE DEVICE AT LEAST 30 FEET IN LENGTH.
   - SHORT SKI OR SHOE.
5. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED TO THE FULL AVAILABLE WIDTH WITHIN EACH PHASE OF CONSTRUCTION BEFORE THE SUCCEEDING LAYER IS PLACED.
6. WHERE NEW PAVEMENT IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE USING A PAVEMENT–CUTTING SAW. APPLYING THE PAVEMENT JOINT DETAIL PROVIDED.

REVEGETATION NOTES:

1. HYDROSEEDING WILL OCCUR WHERE THERE ARE HAZARDOUS DISTURBED SLOPES AND AREAS OF DISTURBANCE IN ACCORDANCE WITH PITKIN COUNTY GUIDELINES.
2. ALL AREAS DISTURBED BY ROAD OR UTILITY CONSTRUCTION OR OVER–LOT GRADING SHALL BE REVEGETATED WITH REVEGETATION SEED MIXTURE. PROVIDE FRESH, CLEAN, NEW–CROP SEED COMPLYING WITH TOLERANCE FOR PURITY AND GERMINATION ESTABLISHED BY OFFICIAL SEED ANALYSIS OF NORTH AMERICA. PROVIDE SEED OF GRASS SPECIES, PROPORTIONS AND MINIMUM PERCENTAGES OF PURITY, GERMINATION, AND MAXIMUM PERCENTAGE OF WEED SEED, AS SPECIFIED.
3. PRIOR TO REVEGETATION, PLANTING OR TOPSOIL PLACEMENT, ALL CUT OR FILL SLOPES WILL BE CONTOURED TO BLEND WITH ADJACENT TERRAIN. VARIOUS SLOPE MOLDING TECHNIQUES WILL BE USED TO ENHANCE THE AESTHETIC QUALITY OF THE SLOPE, WHILE MAXIMIZING THE REVEGETATION POTENTIAL. ALL CUT AND FILL SLOPES ALSO BEING ROUNDED AT THE TOE TO BLEND WITH THE EXISTING TERRAIN. ADDITIONALLY, WHERE SOILS AND STEEPNESS OF SLOPES PERMIT, TERRACES WILL BE CONSTRUCTED TO AID THE REVEGETATION PROCESS.
4. SEEDING MATERIAL TO BE USED FOR RECLAMATION (PITKIN COUNTY NON–IRRIGATED SEED MIX):

   SEEDING RATE: 2 LBS PER 1000 SQUARE FEET (OR 25 LBS PER ACRE)

	SPECIES	COMMON NAME
25	PASCOPYRUM SMITHII	WESTERN WHEATGRASS
25	ELYMUS TRACHYCAULUS	SLENDER WHEATGRASS
10	PSEUDOREGNERIA SPICATA	BLUEBUNCH WHEATGRASS
15	NASSELLA VIRIDULA	GREEN NEEDLEGRASS
15	BOUTELOUA GRACILIS	BLUE GRAMA
10	ACHNATHERUM HYMENOIDES	INDIAN RICEGRASS

5. FOR DRYLAND SEEDED AREAS, PROVIDE FERTILIZER WITH COMMERCIAL TYPE MIXTURE OF 16–16–8 OR SIMILAR RATIO, NOT LESS THAN 15 LBS PER ACRE FOR NITROGEN RATE.
6. MULCH ALL SEEDED AREAS WITH CONWEB LONG FIBER MULCH, HAY OR STRAW. MATERIAL FOR STRAW MULCHING SHALL CONSIST OF STRAW OR OATS, BARLEY, WHEAT OR RYE AND SHALL NOT CONTAIN SEED OF NOXIOUS WEEDS. CLEAN FIELD HAY MAY BE SUBSTITUTED FOR STRAW WHEN APPROVED BY THE ENGINEER. STRAW OR HAY IN SUCH AN ADVANCED STAGE OR DECOMPOSITION AS TO SMOTHER OR RETARD THE NORMAL GROWTH OF GRASS WILL NOT BE ACCEPTED. CONWEB FIBER MULCH, PREVIOUSLY SPECIFIED, SHALL BE APPLIED AT A RATE OF 1500 LBS./ACRE. HAY OR STRAW SHALL BE APPLIED IN A UNIFORM MANNER AT A RATE OF 1.5 TONS/ACRE.
7. SEEDING SHALL BE DONE BY HYDROSEEDING, DRILLING, OR HAND BROADCASTING. HYDROSEED SHALL BE APPLIED IN A WATER AND LIGHT MULCH SLURRY AFTER WHICH MULCH WILL BE APPLIED TO COVER THE SEED. ANY AREAS THAT CANNOT BE REACHED BY HYDROSEEDING OR DRILL SEEDING SHALL BE HAND BROADCAST. AREAS SEEDED BY HAND BROADCASTING SHALL BE LIGHTLY RAKED.
8. DRYLAND SEEDING SHALL BE PERFORMED AS SOON AS PRACTICAL AFTER COMPLETING OF CONSTRUCTION, WITHIN THE APPROPRIATE SEASON. SEEDING SHALL BE PERFORMED AFTER SPRING THAW UNTIL JUNE 30TH, OR AFTER SEPTEMBER 1 UNTIL CONSISTENT GROUND FREEZE.
9. PROVIDE EROSION CONTROL BLANKET ON ALL SLOPES OF 2:1 OR STEEPER.

WATER NOTES:

1. CONTRACTOR SHALL USE A TRENCH BOX TO FACILITATE WATER LINE CONSTRUCTION.
2. ALL WATER MAINS SHALL BE INSTALLED WITH A 4' MINIMUM DEPTH OF COVER. IF GRADE CONFLICTS OCCUR WITH EXISTING UTILITIES OR OTHER OBSTRUCTIONS, THE PROPOSED WATER MAIN GRADE CAN BE VARIED PROVIDED THE 4' MINIMUM DEPTH OF COVER IS MAINTAINED. JOINT DEFLECTION SHALL BE UTILIZED TO MINIMIZE THE NUMBER OF FITTINGS AND AVOID CREATION OF HIGH OR LOW POINTS,
3. ALL FITTINGS (BENDS, CROSSES, PLUGS, VALVES AND TEES) TO HAVE A CONCRETE THRUST BLOCK INSTALLED IN ACCORDANCE WITH THE THRUST BLOCK TABLE SHOWN ON THE DETAILS WITH A STATIC PRESSURE OF 150 PSI. MEGALUGS ARE REQ'D IN ADDITION TO THE CONC. THRUST BLOCK. ALL CONCRETE THRUST BLOCK SHALL BE FORMED AND POURED IN PLACE AGAINST NATIVE SOIL OR SOIL WITH PROPER COMPACTION ON ALL FITTINGS INCLUDING TAPS 4" OR LARGER TO RESIST HYDRAULIC THRUST.
4. THE WATER LINE LOCATION SHOWN UTILIZES JOINT DEFLECTION. (A MAX. OF 2.5° PER JOINT, R > 458') IN NO CASE SHALL FIELD DEFLECTIONS EXCEED ONE HALF (½) THE MANUFACTURERS REC'S.
5. FIRE HYDRANTS SHALL BE "MUELLER CENTURION" WITH A 6" MECHANICAL JOINT END CONNECTION MODEL A–423 OR PRE– APPROVED EQUIVALENT WITH MINIMUM 4 FEET OF BURIAL. HYDRANTS SHALL HAVE ONE 4 ½" PUMPER CONNECTION AND TWO 2 ½" HOSE CONNECTIONS. HYDRANTS SHALL HAVE NATIONAL STANDARD THREADS, SHALL OPEN TO THE LEFT/COUNTER–CLOCKWISE WITH A STANDARD FIVE SIDED OPERATING NUT. MAIN VALVE OPENING SHALL BE 5 ¼" MINIMUM. HYDRANTS SHALL BE DESIGNED TO OPERATE UNDER LESS THAN 200 PSI WORKING PRESSURE. TEES FOR FIRE HYDRANT LATERALS SHALL BE MECHANICAL JOINT (M.J.) ON THE RUN AND 6" FLANGED (FL.) ON THE BRANCH (A "SWIVEL TEE" IS ACCEPTABLE TO USE). VALVES ON FIRE HYDRANT LATERALS SHALL BE 6" FL. X M.J. MEGALUGS WILL BE INSTALLED ON ALL BRANCH AND RUN CONNECTIONS. MEGALUGS AND CONCRETE THRUST BLOCKS WILL BE ACCEPTED WHERE VIRGIN SOIL IS AVAILABLE. MEGALUGS AND TIE–RODS WILL BE INSTALLED WHERE SOIL DISTURBANCE HAS OCCURRED. TWO ¾" CORTEN STEEL HIGH STRENGTH TIE–RODS, NUTS, AND BOLTS SHALL BE INSTALLED FROM THE M.J. SIDE OF THE FIRE HYDRANT VALVE TO THE FIRE HYDRANT. A MINIMUM ½" SCREENED ROCK DRAIN BED, 12 INCHES IN DEPTH, SHALL BE PROVIDED AT THE BASE OF EACH FIRE HYDRANT COVERED WITH A DOUBLE THICKNESS OF PLASTIC SHEETING AT LEAST THREE FEET AROUND THE BARREL OF THE HYDRANT.
6. THE CONTRACTOR SHALL ENSURE PIPES ARE FREE OF GRAVEL AND DEBRIS PRIOR TO BEING INSTALLED IN THE TRENCH. IF THE PIPE IS DIRTY, HAS GRAVEL OR DEBRIS INSIDE, OR HAS SAT UNUSED FOR A LONG PERIOD OF TIME, THE PIPE WILL REQUIRE CLEANING PRIOR TO INSTALLATION.
7. THE PIPE SHALL BE BEDDED FOR THE FULL LENGTH OF THE PIPELINE. THE BEDDING MATERIAL SHALL BE COMPACTED CLASS 6 AGGREGATE HAULED IN FOR BEDDING AND NOT NATIVE EXCAVATED MATERIAL. THE BEDDING SHALL EXTEND FROM 6 INCHES BELOW THE PIPE AND BELLS TO 12 INCHES OVER THE TOP OF THE PIPE AND BELLS. BEDDING WILL EXTEND THE FULL WIDTH OF THE EXCAVATION.
8. BACKFILL MATERIAL FROM 12 INCHES ABOVE THE TOP OF THE PIPE TO THE TOP OF THE TRENCH SHALL BE CLASS 6 BASE COURSE MATERIAL IN ALL STREET RIGHT–OF–WAYS.
9. THE CONTRACTOR SHALL NOTIFY THE SWSD AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
10. A CHLORINATION/BACTERIOLOGICAL, HYDROSTATIC/LEAKAGE AND CONDUCTIVITY TEST WILL BE REQUIRED ON ALL NEW LINES AND SYSTEMS BEFORE ACCEPTANCE BY THE WATER DEPARTMENT. THESE TESTS SHALL BE PERFORMED AS PER APPLICABLE ANSI/AWWA STANDARD C651.
11. WATER SERVICES: 4" IN SIZE AND LARGER SHALL BE INSTALLED WITH A TEE ON MAIN, GATE VALVE OF SIMILAR SIZE, LENGTH OF PIPE (D.I.P.) AS REQUIRED TO TIE INTO EXISTING WATER SERVICE AND A MECHANICAL COUPLING: 2" AND SMALLER IN SIZE SHALL BE INSTALLED WITH A CORP STOP ON MAIN WATER LINE, TYPE K COPPER OF SIMILAR SIZE TO A NEW CURB STOP. IN ALL CASES, FIELD VERIFY LINE SIZE AND TYPE. NEW WATER SERVICE INSTALLATIONS ARE TO AVOID ADDITIONAL FITTINGS WHEN CONNECTING TO EXISTING WATER SERVICE AS BEST AS POSSIBLE. THE NEW CURB STOP WILL BE PLACED AT THE EXISTING CURB STOP LOCATION UNLESS PROHIBITED BY THE PROPERTY OWNER, IN WHICH CASE A NEW CURB STOP WILL BE PLACED AT THE PROPERTY BOUNDARY.
12. WATER LINES WILL HAVE A COVER DEPTH OF 4 FEET MINIMUM AS DEPICTED ON PLANS WITH ADJUSTMENTS TO BE MADE FOR FIELD CONDITIONS OF TIE–IN TO EXISTING SYSTEM. VERTICAL SEPARATION BETWEEN WATER AND SEWER LINES SHALL BE 18" INCHES, WATER ABOVE SEWER. IF THIS CANNOT BE ACCOMPLISHED, THE WATER/SEWER LINES SHALL BE TREATED AS PER DETAIL 'WATER/SEWER CROSSING' SHOWN ON THE STANDARD DETAILS OR AS DIRECTED BY THE TOWN.
13. WATER LINES TO HAVE BLUE ID TAPE INSTALLED 2' ABOVE PIPE PER DETAIL. TRACER WIRE SHALL BE INSTALLED ALONG ALL PIPING, VALVES, HYDRANTS, ETC. AS SHOWN IN THE DETAILS.

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Job No.	2017-387.004
Drawn by:	SKR
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QC:	SAK PE: CAC
File:	WL PH 2_Notes

Title: General Notes (2)

Dwg No. G-3

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EXISTING UTILITY NOTES SUE–REQUIRED

1. THIS PROJECT DOES MEET THE CONDITIONS FOR A "SUBSURFACE UTILITY ENGINEERING–REQUIRED PROJECT," AS SET FORTH IN THE 8/8/2018 COLORADO STATE LAW. REFER TO THE "COLORADO REVISED STATUTES (CRS) 2018 TITLE 9–1.5–102 SUBSURFACE UTILITY ENGINEERING (SUE) REQUIRED PROJECT COMPLIANCE CHECKLIST" TABLE FOR REFERENCE TO THESE CONDITIONS.

COLORADO REVISED STATUTES (CRS) 2018 TITLE 9–1.5–102 SUBSURFACE UTILITY ENGINEERING (SUE) REQUIRED PROJECT COMPLIANCE CHECKLIST

1	9–1.5–1 02–6.8.A	PROJECT INVOLVES CONSTRUCTION CONTRACT WITH A PUBLIC ENTITY	x	YES		NO
2	9–1.5–1 02–6.8.B	PROJECT INVOLVES PRIMARILY HORIZONTAL CONSTRUCTION AND DOES NOT INVOLVE PRIMARILY THE CONSTRUCTION OF BUILDINGS	X	YES		NO
3A	9–1.5–1 02–6.8.C .I.A	EXCAVATION FOOTPRINT EXCEEDS 2–FEET DEPTH AND IS A CONTIGUOUS 1,000–SQUARE FEET; OR	X	YES		NO
3B	9–1.5–1 02–6.8.C .I.B	INVOLVES UTILITY BORING		YES	X	NO
4	9–1.5–1 02–6.8.D	PROJECT REQUIRES THE DESIGN SERVICES OF A LICENSED PROFESSIONAL ENGINEER (P.E.)	X	YES		NO
SUMMARY	9–1.5–1 03–2.4	REQUIRED TO MEET OR EXCEED THE ASCE 38 STANDARD AND CO SUE LAW?	X	YES		NO

2. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) DOCUMENT ASCE 38, "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." LOCATION OF EXISTING UTILITIES IS DEPICTED ACCORDING TO THE BEST AVAILABLE INFORMATION, ARE NOT GUARANTEED TO BE ALL INCLUSIVE, AND REPRESENT CONDITIONS AT THE TIME OF DATA COLLECTION. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING UTILITIES WITH THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AND/OR UTILITY COMPANIES. ALL COSTS ASSOCIATED WITH FIELD VERIFICATION OF LOCATION AND DEPTHS OF UTILITIES FOR DAMAGE PREVENTION SHALL BE BORNE BY THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR NEWLY ACQUIRED UTILITY DATA.

3. UTILITY QUALITY LEVELS ARE GENERALLY DEFINED BELOW. REFER TO ASCE 38 FOR MORE INFORMATION:

   3.1 UTILITY QUALITY LEVEL "D" (QLD) – A VALUE ASSIGNED TO A SUBSURFACE UNDERGROUND UTILITY SEGMENT OR UTILITY FEATURE, WHOSE ESTIMATED POSITION IS JUDGED THROUGH UTILITY RECORDS, INFORMATION FROM OTHERS (SUCH AS UNCC 811 FIELD MARKS), OR FROM VISUAL CLUES SUCH AS PAVEMENT CUTS, OBVIOUS TRENCHES, OR EXISTENCE OF SERVICE.

   3.2 UTILITY QUALITY LEVEL "C" (QLC) – A VALUE ASSIGNED TO A SUBSURFACE UTILITY SEGMENT, WHOSE ESTIMATED POSITION IS JUDGED THROUGH CORRELATING UTILITY RECORDS OR SIMILAR EVIDENCE TO UTILITY FEATURES, VISIBLE ABOVE AND/OR BELOW GROUND.

   3.3 UTILITY QUALITY LEVEL "B" (QLB) – A VALUE ASSIGNED TO A SUBSURFACE UTILITY SEGMENT OR SUBSURFACE UTILITY FEATURE WHOSE EXISTENCE AND POSITION IS BASED UPON GEOPHYSICAL METHODS COMBINED WITH PROFESSIONAL JUDGMENT AND WHOSE LOCATION IS TIED TO THE PROJECT SURVEY DATUM.

   3.4 UTILITY QUALITY LEVEL "A" (QLA) – A VALUE ASSIGNED TO THAT PORTION OF A SUBSURFACE UTILITY SEGMENT OR SUBSURFACE UTILITY FEATURE THAT IS DIRECTLY EXPOSED (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES), MEASURED, AND WHOSE LOCATION AND DIMENSIONS ARE TIED TO THE PROJECT SURVEY DATUM. (E.G. A TEST HOLE OR TEST PIT.)

4. RELIANCE UPON THESE DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DO NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION. IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.

5. THE CONTRACTOR SHALL COMPLY WITH COLORADO REVISED STATUTES (CRS) 2018, TITLE 9, ARTICLE 1.5, "EXCAVATION REQUIREMENTS", WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO (2) BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 OR 800–922–1987, TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER.

6. SHOULD THE CONTRACTOR ENCOUNTER UNKNOWN AND/OR ABANDONED UTILITY FACILITIES THE CONTRACTOR SHALL VERIFY WITH THE RESPECTIVE UTILITY OWNER THAT THE UTILITY MATERIAL IS INACTIVE/ABANDONED BEFORE REMOVAL FROM THE WORK AREA.

7. THE CONTRACTOR SHALL COMPLY WITH COLORADO REVISED STATUTES (CRS) 2018, TITLE 9, ARTICLE 1.5–103 (10), "All NEW UNDERGROUND FACILITIES, INCLUDING LATERALS UP TO THE STRUCTURE OR BUILDING BEING SERVED, INSTALLED ON OR AFTER 8/8/2018, MUST BE ELECTRONICALLY LOCATABLE WHEN INSTALLED."

8. PROJECT SPECIFIC NOTES:

   8.1 UTILITY FIELD INVESTIGATION WAS PERFORMED PER THE FOLLOWING DATES/WEATHER: 8/28/24, 8/29/24 & 9/04/24 WITH GENERALLY COOL/DRY CONDITIONS WITH TEMPERATURES IN THE 70–DEGREE FAHRENHEIT RANGE BY SGM. THE UTILITY TEST HOLE INVESTIGATION WAS NOT PERFORMED. EXISTING UTILITY CONDITIONS MAY HAVE CHANGED AFTER THESE DATES.

   8.2 UTILITY INVESTIGATION EQUIPMENT UTILIZED/AVAILABLE AS FOLLOWS: VIVAX–METROTECH VLOC3–5000 PIPE AND CABLE LOCATOR, PROSTAR POINTMAN UTILITY LOCATING AND MAPPING SOFTWARE APPLICATION, SAMSUNG TABLET, TRIMBLE DA2 CATALYST GNSS GPS RECEIVER, FIBERGLASS TAPE MEASURE, VIVAX–METROTECH VM–880 FERROUS METAL DETECTOR, JAMESON FIBERGLASS PUSHROD (AKA RODDER) WITH A D18–33–SR44 SONDE, AND IDS GEORADAR OPERA DUO GROUND PENETRATING RADAR (GPR). THE GPR WAS NOT UTILIZED FOR THIS PROJECT.

   8.3 UTILITY FIELD INFORMATION WAS RECORDED BY THE SGM SURVEY AND UTILITY DEPARTMENTS.

   8.4 THE PRIMARY SCOPE OF THIS PROJECT IS TO INSTALL A WATER LINE ON BRIDGE LANE ROAD TO REPLACE AN EXISTING AGING WATER LINE.

   8.5 UTILITY LINES THAT WERE UNABLE TO ACHIEVE QLB AS FOLLOWS: SWSD WATER LINES ARE DEPICTED PER GEOGRAPHIC INFORMATION SYSTEM (GIS) RECORDS WHERE ELECTROMAGNETIC SIGNALS WERE NOT ACHIEVABLE DUE TO INTERFERENCE FROM THE NEARBY GAS LINE OR WEAK SIGNAL STRENGTH. SWSD SANITARY ACHIEVED QLC WHERE SGM OPENED AND RECORDED MANHOLE INVERT DATA.

   8.6 THE PIPE AND CABLE (PCL) LOCATE EQUIPMENT FREQUENCIES PRIMARILY USED WERE 512 HZ, 8.19 KHZ, 32.8 KHZ, 83.1 KHZ, AND 200 KHZ.

   8.7 THE SWSD WATER LINES DEPICTED AS QLB ARE ACCORDING TO THE LOCATION OF THE SIGNAL ALONG THE PIPE WALLS.

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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_Notes

Title: General Notes (3)

Dwg No. G-4

Of : 69

LEGEND

LINETYPES

EXISTING	PROPOSED	DESCRIPTION
T OH	T OH	OVERHEAD TELEPHONE LINE
T	T	UNDERGROUND TELEPHONE LINE
G	G	LOW PRESSURE GAS LINE
HPG	G HP	HIGH PRESSURE GAS LINE
C	C	UNDERGROUND CABLE TELEVISION LINE
C OH	C OH	OVERHEAD CABLE TELEVISION LINE
E	E	UNDERGROUND ELECTRICAL LINE
E OH	E OH	OVERHEAD ELECTRICAL LINE
DR-QLB		STORM DRAIN LINE
W	W	WATER LINE
WS	WS	WATER SERVICE LINE
S	S	SANITARY SEWER LINE
SS	SS	SANITARY SEWER SERVICE LINE
FO	FO	FIBER OPTIC LINE
IRR	IRR	IRRIGATION LINE
		DRAINAGE SWALE FLOWLINE
		BARBED-WIRE FENCE LINE
		CHAIN LINK FENCE
	SF SF	SILT FENCE
		CULVERT, SIZE & FES
		EDGE OF ASPHALT
		EDGE OF CONCRETE
		EDGE OF GRAVEL
		EDGE OF WATER
		CENTERLINE
		ROCK WALL
		CONTOURS
		RIGHT-OF-WAY
		VEGETATION
	LDA	LIMITS OF DISTURBED AREA
		RAILROAD TRACKS
		TOP OF CUT
		TOP OF FILL
		EASEMENT
	AE	ACTIVITY ENVELOPE

SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		DECIDUOUS TREE
		CONIFEROUS TREE
		MONUMENT MARKER
		CONTROL POINT
C E FO G S T U W		MARKERS (CATV, ELEC, FIBER) (TELE, TRAFFIC, UNKNOWN)
C E FO T TR U	C E FO T TR U	PEDESTALS (CATV, ELEC, FIBER) (TELE, TRAFFIC, UNKNOWN)
D E FO IR S T U W		MANHOLES (DRAINAGE, ELEC, FIBER, IRRIGATION, SANITARY, TELEPHONE, UNKNOWN, WATER)
E FO T TR U	E FO T TR U	VAULTS/HANDHOLES (CATV, ELEC, FIBER, TELE, TRAFFIC, UNKNOWN)
ET	ET	ELECTRIC TRANSFORMER
GV	GV	GAS VALVE
SV	SV	SANITARY VALVE
ICV	ICV	IRRIGATION CONTROL VALVE
		WATER VALVE
W S	W S	WATER SHUTOFF VALVE
		FIRE HYDRANT
G W S	G W S	VENTS(GAS,WATER,SEWER,MISC.)
GM EM WM	GM EM WM	METERS (GAS, ELECTRIC, WATER)
G	G	GAS WELL
M	M	MONITORING WELL
W	W	WATER WELL
CO	CO	CLEAN-OUT
P	P	PROPANE TANK (ABOVE GROUND)
P	P	PROPANE TANK (UNDERGROUND)
HV AC	HV AC	HEATING/AIR CONDITIONING UNIT
		WATER SPIGOT
ICB	ICB	IRRIGATION CONTROL BOX
		IRRIGATION HEADGATE
SPR	SPR	IRRIGATION SPRINKLER HEAD
		PVC PIPE

SYMBOLS (CONT.)

EXISTING	PROPOSED	DESCRIPTION
		FLAG POLE
		UTILITY POLE
		GUY WIRE
		STREET LIGHT POLE
		TRAFFIC LIGHT POLE
		FLOOD LIGHT
		SIGN
MB	MB	MAILBOX
		BOLLARD
SB		SOIL BORING LOCATION
TP		TEST PIT LOCATION
R		LARGE ROCK/BOULDER
		"T" POST
		SATELLITE DISH
	T	TRANSITION FROM SPILL TO CATCH GUTTER
		MINIMUM 4" TOP SOIL OR SPECIFIED ALTERNATIVE
		CHANGE IN SUE LEVEL
		POT HOLE

HATCHING

EXISTING	PROPOSED	DESCRIPTION
		ASPHALT MILLING
		ASPHALT
		CONCRETE SURFACING (PLAN VIEW)
		GRAVEL SURFACING
		RIPRAP/RIVER ROCK
		RE-ESTABLISH NATIVE VEGETATION
		WOOD DECK
		FLAGSTONE
		UNDISTURBED SOIL
		RECOMPACTED SOIL

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Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_Notes

Title: Legend

Dwg No. G-5

Of: 69

ABBREVIATIONS

@	AT
°	DEGREE
ø	DIAMETER
#	NUMBER
AAC	ALUMINUM ARCH CULVERT
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
ABUT	ABUTMENT
ALT	ALTERNATE
AP	ANGLE POINT
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
AS	ASPHALT
ASD	ALLOWABLE STRESS DESIGN
ASPH	ASPHALT
ATB	ASPHALT TREATED BASE
BM	BENCHMARK
BMP	BEST MANAGEMENT PRACTICES
BOW	BACK OF SIDEWALK
BP	BEGIN PROJECT, BEGINNING POINT
BT	BEGIN TRANSITION
BVCE	BEGINNING VERTICAL CURVE ELEVATION
BVCS	BEGINNING VERTICAL CURVE STATION
BW	BOTTOM OF WALL
C	CURB
CBC	CONCRETE BOX CULVERT
CC	CURB CUT
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CDPHE	COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CG	CURB AND GUTTER
CIP	CAST IN PLACE
CL	CENTERLINE
CO	CONCRETE
COM	COMMUNICATIONS
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COR	CORNER
CPE	CORRUGATED POLYETHYLENE PIPE
CSP	CORRUGATED STEEL PIPE
CTB	CEMENT TREATED BASE
CU	CUBIC
CY	CUBIC YARD
D	DEEP
DEG	DEGREES
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DRAIN
DW	DRIVEWAY
DWG	DRAWING
E	EASTING
EA	EACH
EB	EAST BOUND
EG	EXISTING GRADE
EL	ELEVATION
ELEV	ELEVATION
EOA	EDGE OF ASPHALT
EOD	EDGE OF DRIVEWAY
EOC	EDGE OF CONCRETE
EOG	EDGE OF GRAVEL
EOP	EDGE OF PAVEMENT
EP	END PROJECT, END POINT
ES	ELECTRIC SERVICE
ESMT	EASEMENT
EST	ESTIMATE
EVCE	END VERTICAL CURVE ELEVATION
EVCS	END VERTICAL CURVE STATION
EX	EXISTING
EXIST	EXISTING
EXT	EXTERIOR
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FH	FIRE HYDRANT
FHWA	FEDERAL HIGHWAY ADMINISTRATION
FL	FLOWLINE
FPS	FEET PER SECOND
FT	FEET
G	GAS
GAL	GALLONS
GALV	GALVANIZED
GB	GRADE BREAK
GPM	GALLONS PER MINUTE
GPS	GLOBAL POSITIONING SYSTEM
GR	GRAVEL
GRAV	GRAVEL
GS	GAS SERVICE
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE
HAZMAT	HAZARDOUS MATERIALS
HCL	HORIZONTAL CONTROL LINE
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIXED ASPHALT
HORIZ	HORIZONTAL
HOV	HIGH OCCUPANCY VEHICLE
HP	HIGH POINT
HPG	HIGH PRESSURE GAS
HWY	HIGHWAY
HYD	HYDRANT
ID	INSIDE DIAMETER
INT	INTERSECTION
INV	INVERT
IP	INLET PROTECTION
JB	JUNCTION BOX
KIP	THOUSAND POUNDS
KW	KILOWATT
L	LEFT
LGTH	LENGTH
LB	POUNDS
LB/FT	POUNDS PER FOOT
LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
LF	LINEAR FOOT
LOMR	LETTER OF MAP REVISION
LPFM	LOW PRESSURE FORCE MAIN
LP	LOW POINT
LS	LUMP SUM
LSA	LANDSCAPED AREA
LT	LIGHT POLE
LTB	LIME TREATED BASE
LUM	LUMINARY
M	METERS
MAT'L	MATERIAL
MAX	MAXIMUM
MH	MANHOLE
MHT	METHOD OF HANDLING TRAFFIC
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	MEGALUG
MLW	MASONRY LANDSCAPE WALL
MP	MILE POST
MPH	MILES PER HOUR
MSE	MECHANICALLY STABILIZE EARTH
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
MW	MONITORING WELL
N	NORTHING
N/A	NOT APPLICABLE
NAT	NATIVE GRASS AREA
NAVD	NORTH AMERICAN VERTICAL DATUM
NB	NORTH BOUND
NE	NORTHEAST
NO	NUMBER
NTP	NOTICE TO PROCEED
NTS	NOT TO SCALE
NW	NORTHWEST
O/S	OFFSET
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OP	OUTLET PROTECTION
OT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PED	PEDESTRIAN
PERM	PERMANENT
PG	PAGE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PM	PROJECT MANAGER
PNT	POINT
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVE
PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FEET
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PUD	PLANNED UNIT DEVELOPMENT
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENCY
Q	PEAK DISCHARGE
QA/QC	QUALITY ASSURANCE/QUALITY CONTROL
QTY	QUANTITY
R	RIGHT
R-R	REMOVE AND REPLACE
RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE
REQ	REQUIRED
REVEG	REVEGETATE
RFTA	ROARING FORK TRANSIT AUTHORITY
ROW	RIGHT OF WAY
RP	RADIUS POINT
RSS	REINFORCED SOIL SLOPE
RW	RETAINING WALL
SAN	SANITARY
SB	SOUTH BOUND
SCF	SEDIMENT CONTROL FENCE
SD	STORM DRAIN
SE	SOUTHEAST
SECT	SECTION
SF	SQUARE FEET
SHLDR	SHOULDER
SL	SANITARY SEWER LINE
SMH	SANITARY SEWER MANHOLE
SOD	GRASS AREA
SS	SANITARY SEWER SERVICE
SSD	STOPPING SIGHT DISTANCE
STA	STATION
STBK	SETBACK
SW	SIDEWALK
SY	SQUARE YARDS
SYM	SYMMETRICAL
T	TREAD STAIRS
TAN	TANGENT
TBC	TOP BACK OF CURB
TBLK	THRUST BLOCK
TC	TOP OF CURB
TCE	TEMPORARY CONSTRUCTION EASEMENT
TCP	TRAFFIC CONTROL PLAN
TELE	TELEPHONE
TEMP	TEMPORARY
TOP	TOP OF PIPE
TRANS	TRANSITION
TRFLG	TRAFFIC FLANGE OF FIRE HYDRANT
TW	TOP OF WALL
TYP	TYPICAL
UCTV	UNDERGROUND CABLE TELEVISION LINE
UE	UNDERGROUND ELECTRIC LINE
UG	UNDERGROUND GAS LINE
UT	UNDERGROUND TELEPHONE LINE
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VP	VALLEY PAN
VTC	VEHICLE TRACKING CONTROL
W	WIDE
W/	WITH
WB	WEST BOUND
WL	WATER LINE
WS	WATER SERVICE
WQCD	WATER QUALITY CONTROL DIVISION
WS	WATER SERVICE
WWM	WELDED WIRE MESH
X-S	CROSS SLOPE
YD	YARD

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Title: Abbreviations

Dwg No. G-6

Of: 69

EXISTING UTILITY NOTES – "SUE–REQUIRED PROJECT" COMPLIANT

1. THIS PROJECT DOES MEET THE CONDITIONS FOR A "SUBSURFACE UTILITY ENGINEERING–REQUIRED PROJECT," AS SET FORTH IN THE 8/8/2018 COLORADO STATE LAW. REFER TO THE "COLORADO REVISED STATUTES (CRS) 2018 TITLE 9–1.5–102 SUBSURFACE UTILITY ENGINEERING (SUE) REQUIRED PROJECT COMPLIANCE CHECKLIST" TABLE FOR REFERENCE TO THESE CONDITIONS.

COLORADO REVISED STATUTES (CRS) 2018 TITLE 9–1.5–102 SUBSURFACE UTILITY ENGINEERING (SUE) REQUIRED PROJECT COMPLIANCE CHECKLIST

1	9–1.5–10 2–6.8.A	PROJECT INVOLVES CONSTRUCTION CONTRACT WITH A PUBLIC ENTITY	X	YES		NO
2	9–1.5–10 2–6.8.B	PROJECT INVOLVES PRIMARILY HORIZONTAL CONSTRUCTION AND DOES NOT INVOLVE PRIMARILY THE CONSTRUCTION OF BUILDINGS	X	YES		NO
3A	9–1.5–10 2–6.8.C.I. A	EXCAVATION FOOTPRINT EXCEEDS 2–FEET DEPTH AND IS A CONTIGUOUS 1,000–SQUARE FEET; OR	X	YES		NO
3B	9–1.5–10 2–6.8.C.I. B	INVOLVES UTILITY BORING		YES	X	NO
4	9–1.5–10 2–6.8.D	PROJECT REQUIRES THE DESIGN SERVICES OF A LICENSED PROFESSIONAL ENGINEER (P.E.)	X	YES		NO
SUMMARY	9–1.5–10 3–2.4	REQUIRED TO MEET OR EXCEED THE ASCE 38 STANDARD AND CO SUE LAW?	X	YES		NO

2. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) DOCUMENT ASCE 38, "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." LOCATION OF EXISTING UTILITIES IS DEPICTED ACCORDING TO THE BEST AVAILABLE INFORMATION, ARE NOT GUARANTEED TO BE ALL INCLUSIVE, AND REPRESENT CONDITIONS AT THE TIME OF DATA COLLECTION. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY EXISTING UTILITIES WITH THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AND/OR UTILITY COMPANIES. ALL COSTS ASSOCIATED WITH FIELD VERIFICATION OF LOCATION AND DEPTHS OF UTILITIES FOR DAMAGE PREVENTION SHALL BE BORNE BY THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR NEWLY ACQUIRED UTILITY DATA.

3. UTILITY QUALITY LEVELS ARE GENERALLY DEFINED BELOW. REFER TO ASCE 38 FOR MORE INFORMATION:

   3.1 UTILITY QUALITY LEVEL "D" (QLD) – A VALUE ASSIGNED TO A SUBSURFACE UNDERGROUND UTILITY SEGMENT OR UTILITY FEATURE, WHOSE ESTIMATED POSITION IS JUDGED THROUGH UTILITY RECORDS, INFORMATION FROM OTHERS (SUCH AS UNCC 811 FIELD MARKS), OR FROM VISUAL CLUES SUCH AS PAVEMENT CUTS, OBVIOUS TRENCHES, OR EXISTENCE OF SERVICE.

   3.2 UTILITY QUALITY LEVEL "C" (QLC) – A VALUE ASSIGNED TO A SUBSURFACE UTILITY SEGMENT, WHOSE ESTIMATED POSITION IS JUDGED THROUGH CORRELATING UTILITY RECORDS OR SIMILAR EVIDENCE TO UTILITY FEATURES, VISIBLE ABOVE AND/OR BELOW GROUND.

   3.3 UTILITY QUALITY LEVEL "B" (QLB) – A VALUE ASSIGNED TO A SUBSURFACE UTILITY SEGMENT OR SUBSURFACE UTILITY FEATURE WHOSE EXISTENCE AND POSITION IS BASED UPON GEOPHYSICAL METHODS COMBINED WITH PROFESSIONAL JUDGMENT AND WHOSE LOCATION IS TIED TO THE PROJECT SURVEY DATUM.

   3.4 UTILITY QUALITY LEVEL "A" (QLA) – A VALUE ASSIGNED TO THAT PORTION OF A SUBSURFACE UTILITY SEGMENT OR SUBSURFACE UTILITY FEATURE THAT IS DIRECTLY EXPOSED (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES), MEASURED, AND WHOSE LOCATION AND DIMENSIONS ARE TIED TO THE PROJECT SURVEY DATUM. (E.G. A TEST HOLE OR TEST PIT.)

4. RELIANCE UPON THESE DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DO NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION. IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.

5. THE CONTRACTOR SHALL COMPLY WITH COLORADO REVISED STATUTES (CRS) 2018, TITLE 9, ARTICLE 1.5, "EXCAVATION REQUIREMENTS", WHEN EXCAVATING OR GRADING IS PLANNED IN THE AREA OF UNDERGROUND UTILITY FACILITIES. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITIES AT LEAST TWO (2) BUSINESS DAYS, NOT INCLUDING THE ACTUAL DAY OF NOTICE, PRIOR TO COMMENCING SUCH OPERATIONS. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 811 OR 800–922–1987, TO HAVE LOCATIONS OF UNCC REGISTERED LINES MARKED BY MEMBER COMPANIES. ALL OTHER UNDERGROUND FACILITIES SHALL BE LOCATED BY CONTACTING THE RESPECTIVE OWNER.

6. SHOULD THE CONTRACTOR ENCOUNTER UNKNOWN AND/OR ABANDONED UTILITY FACILITIES THE CONTRACTOR SHALL VERIFY WITH THE RESPECTIVE UTILITY OWNER THAT THE UTILITY MATERIAL IS INACTIVE/ABANDONED BEFORE REMOVAL FROM THE WORK AREA.

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8. PROJECT SPECIFIC NOTES:

   8.1. UTILITY FIELD INVESTIGATION WAS PERFORMED BY SGM INC. PER THE FOLLOWING DATES/WEATHER: MARCH 27TH TO APRIL 7TH, 2025 WITH GENERALLY COOL/DRY CONDITIONS IN THE 30–70 DEGREE FAHRENHEIT RANGE WITH SOME RAIN. THE UTILITY TEST HOLE INVESTIGATION WAS PERFORMED BY D&L CONSTRUCTION WHICH INCLUDED SGM OVERSIGHT AND ADDITIONAL GEOPHYSICAL EQUIPMENT INVESTIGATION. EXISTING UTILITY CONDITIONS MAY HAVE CHANGED AFTER THESE DATES.

   8.2. UTILITY INVESTIGATION EQUIPMENT UTILIZED AS FOLLOWS: VIVAX–METROTECH VLOC3–5000 RECEIVER/TRANSMITTER, JAMESON FIBERGLASS DUCT CONDUIT RODDER, PROSTAR POINTMAN UTILITY LOCATING AND MAPPING SOFTWARE APPLICATION, SAMSUNG TABLET, TRIMBLE DA2 CATALYST GNSS GPS RECEIVER, FIBERGLASS TAPE MEASURE, VIVAX–METROTECH VM–880 FERROUS METAL DETECTOR, AND IDS GEORADAR OPERA DUO GROUND PENETRATING RADAR (GPR).

   8.3. UTILITY FIELD INFORMATION WAS RECORDED BY THE SGM UTILITY TEAM. CONTACT SGM'S SURVEY DEPARTMENT FOR FOR SURVEY DATUM DETAILS.

   8.4. THE PRIMARY SCOPE OF THIS PROJECT IS PHASE 2 OF A WATER MAIN REPLACEMENT PROJECT FOR THE TOWN OF DOLORES.

   8.5. THE PIPE AND CABLE (PCL) LOCATE EQUIPMENT FREQUENCIES PRIMARILY USED WERE 8.19 KHZ, 32.8 KHZ, CPS120, 60HZ PASSIVE POWER MODE.

   8.6. THE GPR EQUIPMENT WAS NOT UTILIZED FOR THIS PROJECT.

   8.7. SGM WAS UNABLE TO ACHIEVE QUALITY LEVEL B FOR THE FOLLOWING UTILITY SEGMENTS:

UTILITY OWNER	TYPE	SEGMENT(S)	QL	JUSTIFICATION(S)
TOWN OF DOLORES	SANITARY	ALL SEGMENTS FROM MANHOLE TO MANHOLE	C	RIGID SECTIONS OF PIPE SURVEYED ON EACH END
TOWN OF DOLORES	STORM DRAINAGE	ALL	C	RIGID SECTIONS OF PIPE SURVEYED ON EACH END
TOWN OF DOLORES	FIBER	ALL	D	DRAWN IN PER RECORDS – POTENTIALLY ABANDONED AS NO EVIDENCE COULD BE FOUND
FAST TRACK COMM	FIBER	ALL	D	DRAWN IN PER RECORDS – OUTSIDE OF JOB LIMITS. NO IMPACT.

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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Job No. 2017-387.004
Drawn by: SKR
Date: 07.01.2025
QC: SAK PE: CAC
File: WL PH 2_SUE_Admin

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Title: SUE Notes

Dwg No. G-7

Of: 69

TRACER WIRE SPECIFICATIONS

1. PER COLORADO LAW, ALL NEW UNDERGROUND FACILITIES (UTILITIES), INCLUDING LATERALS OR SERVICES UP TO THE BUILDING BEING SERVED, SHALL BE ELECTRONICALLY LOCATABLE WHEN INSTALLED. ALL NON–ENERGIZED UTILITIES SHALL HAVE TRACER WIRE PROPERLY INSTALLED WITH THE UTILITY. (UNLESS THE UTILITY IS METALLIC AND SPECIFICALLY DESIGNED TO BE LOCATED THROUGH THE PIPE MATERIAL.)

2. TRACER WIRE
   - 2.1. OPEN TRENCH INSTALLATIONS – TRACER WIRE SHALL BE #12 AWG COPPER CLAD STEEL, HIGH STRENGTH WITH MINIMUM 450 LB. BREAK LOAD, OR SOLID CU, AND WITH MINIMUM 30 MIL HDPE INSULATION THICKNESS.
   - 2.2. DIRECTIONAL DRILLING/BORING OPEN TRENCH INSTALLATIONS – TRACER WIRE SHALL BE #12 AWG COPPER CLAD STEEL, EXTRA HIGH STRENGTH WITH MINIMUM 1,150 LB. BREAK LOAD, WITH MINIMUM 30 MIL HDPE INSULATION THICKNESS.
   - 2.3. PIPE BURSTING/SLIP LINING – TRACER WIRE SHALL BE 7 X 7 STRANDED COPPER CLAD STEEL, EXTREME STRENGTH WITH 4,700 LB. BREAK LOAD, WITH MINIMUM 50 ML HDPE INSULATION THICKNESS
   - 2.4. USE OF THNN IS STRICTLY PROHIBITED

3. CONNECTORS
   - 3.1. ALL MAINLINE TRACER WIRES MUST BE INTERCONNECTED IN INTERSECTIONS, AT MAINLINE TEES AND MAINLINE CROSSES. AT TEES, THE THREE WIRES SHALL BE JOINED USING A SINGLE 3–WAY LOCKABLE CONNECTOR (SNAKEBITETM OR APPROVED EQUAL). AT CROSSES, THE FOUR WIRES SHALL BE JOINED USING A 4–WAY CONNECTOR. USE OF TWO 3–WAY CONNECTORS WITH A SHORT JUMPER WIRE BETWEEN THEM IS AN ACCEPTABLE ALTERNATIVE.
   - 3.2. DIRECT BURY WIRE CONNECTORS – SHALL INCLUDE SNAKEBITETM 3–WAY LOCKABLE CONNECTORS (OR APPROVED EQUAL) AND MAINLINE TO LATERAL LUG CONNECTORS SPECIFICALLY MANUFACTURED FOR USE IN UNDERGROUND TRACER WIRE INSTALLATION. CONNECTORS SHALL BE DIELECTRIC SILICON FILLED TO SEAL OUT MOISTURE AND CORROSION AND SHALL BE INSTALLED IN A MANNER SO AS TO PREVENT ANY UNINSULATED WIRE EXPOSURE.
   - 3.3. NON–LOCKING FRICTION FIT, TWIST ON OR TAPED CONNECTORS ARE PROHIBITED.

4. TERMINATION/ACCESS
   - 4.1. ALL TRACER WIRE TERMINATION POINTS MUST UTILIZE AN APPROVED TRACER WIRE ACCESS BOX (ABOVE GROUND ACCESS BOX OR GRADE LEVEL/IN–GROUND ACCESS BOX AS APPLICABLE), SPECIFICALLY MANUFACTURED FOR THIS PURPOSE.
   - 4.2. ALL GRADE LEVEL/IN–GROUND ACCESS BOXES SHALL INCLUDE A DUAL TERMINAL SWITCHABLE LID (SNAKEPITÐ LD14G2T–SW OR APPROVED EQUAL), BE APPROPRIATELY IDENTIFIED WITH "SEWER" CAST INTO THE CAP, AND COLOR CODED PER APWA STANDARD FOR THE SPECIFIC UTILITY BEING MARKED.
   - 4.3. A MINIMUM OF 2 FT. OF EXCESS/SLACK WIRE IS REQUIRED IN ALL TRACER WIRE ACCESS BOXES AFTER MEETING FINAL ELEVATION.
   - 4.4. ALL TRACER WIRE ACCESS BOXES MUST INCLUDE A MANUALLY INTERRUPTIBLE CONDUCTIVE/CONNECTIVE LINK BETWEEN THE TERMINAL(S) FOR THE TRACER WIRE CONNECTION AND THE TERMINAL FOR THE GROUND ROD WIRE CONNECTION.
   - 4.5. GROUND WIRE SHALL BE CONNECTED TO THE IDENTIFIED (OR BOTTOM) TERMINAL ON ALL ACCESS BOXES.
   - 4.6. SERVICE LATERALS ON PUBLIC PROPERTY – TRACER WIRE MUST TERMINATE WITH A COIL OF 6 FEET OF TRACER WIRE FOR FUTURE EXTENSION TO THE BUILDING, LOCATED AT THE EDGE OF THE ROAD RIGHT–OF–WAY, AND OUT OF THE ROADWAY.
   - 4.7. SERVICE LATERALS ON PRIVATE PROPERTY – TRACER WIRE MUST TERMINATE AT AN APPROVED ABOVE–GROUND TRACER WIRE ACCESS BOX, AFFIXED TO THE BUILDING EXTERIOR DIRECTLY ABOVE WHERE THE UTILITY ENTERS THE BUILDING, AT AN ELEVATION NOT GREATER THAN 5 VERTICAL FEET ABOVE FINISHED GRADE, OR TERMINATE AT AN APPROVED GRADE LEVEL/IN–GROUND TRACER WIRE ACCESS BOX, LOCATED WITHIN 2 LINEAR FEET OF THE BUILDING BEING SERVED BY THE UTILITY.
   - 4.8. LONG–RUNS, IN EXCESS OF 2,500 LINEAR FEET – TRACER WIRE ACCESS MUST BE PROVIDED UTILIZING AN APPROVED GRADE LEVEL/IN–GROUND TRACER WIRE ACCESS BOX, LOCATED AT THE EDGE OF THE ROAD RIGHT–OF–WAY AND OUT OF THE ROADWAY. THE GRADE LEVEL/IN–GROUND TRACER WIRE ACCESS BOX SHALL BE DELINEATED USING A MINIMUM 48" POLYETHYLENE MARKER POST, COLOR CODED PER APWA STANDARD FOR THE SPECIFIC UTILITY BEING MARKED OR OTHER APPROVED MARKER BY THE CITY OF PUEBLO. GROUNDING

5. GROUNDING
   - 5.1. TRACER WIRE MUST BE PROPERLY GROUNDED AT ALL DEAD ENDS/STUBS.
   - 5.2. GROUNDING OF TRACER WIRE SHALL BE ACHIEVED BY USE OF A DRIVE–IN MAGNESIUM GROUND ROD WITH A MINIMUM OF 20FT OF #12 RED HDPE INSULATED COPPER CLAD STEEL WIRE CONNECTED TO ANODE (MINIMUM 1.5 LB.) SPECIFICALLY MANUFACTURED FOR THIS PURPOSE AND BURIED AT THE SAME ELEVATION AS THE UTILITY.
   - 5.3. WHEN GROUNDING THE TRACER WIRE AT DEAD ENDS/STUBS, THE GROUND ROD SHALL BE INSTALLED IN A DIRECTION 180 DEGREES OPPOSITE OF THE TRACER WIRE, AT THE MAXIMUM POSSIBLE DISTANCE.
   - 5.4. WHEN GROUNDING THE TRACER WIRE IN AREAS WHERE THE TRACER WIRE IS CONTINUOUS AND NEITHER THE MAINLINE TRACER WIRE OR THE GROUND ROD WIRE WILL BE TERMINATED AT/ABOVE GRADE, INSTALL GROUND ROD WIRE DIRECTLY BENEATH AND IN–LINE WITH THE TRACER WIRE. DO NOT COIL EXCESS WIRE FROM GROUND ROD WIRE. IN THIS INSTALLATION METHOD, THE GROUND ROD WIRE SHALL BE TRIMMED TO AN APPROPRIATE LENGTH BEFORE CONNECTING TO TRACER WIRE WITH A MAINLINE TO LATERAL LUG CONNECTOR.
   - 5.5. WHERE THE GROUND ROD WIRE WILL BE CONNECTED TO A TRACER WIRE ACCESS BOX, A MINIMUM OF 2 FT. OF EXCESS/SLACK WIRE IS REQUIRED AFTER MEETING FINAL ELEVATION.

6. INSTALLATION
   - 6.1. TRACER WIRE SYSTEMS MUST BE INSTALLED AS A SINGLE CONTINUOUS WIRE, EXCEPT WHERE USING APPROVED CONNECTORS. NO LOOPING OR COILING OF WIRE IS ALLOWED.
   - 6.2. ANY DAMAGE OCCURRING DURING INSTALLATION OF THE TRACER WIRE MUST BE IMMEDIATELY REPAIRED BY REMOVING THE DAMAGED WIRE AND INSTALLING A NEW SECTION OF WIRE WITH APPROVED CONNECTORS. TAPING AND/OR SPRAY COATING SHALL NOT BE ALLOWED.
   - 6.3. TRACER WIRE SHALL BE INSTALLED AT THE TOP OF THE PIPE AND SECURED (TAPED/TIED) AT 5' INTERVALS
   - 6.4. MAINLINE TRACER WIRE SHALL NOT BE CONNECTED TO EXISTING CONDUCTIVE PIPES. TREAT AS A MAINLINE DEAD–END AND GROUND USING AN APPROVED WATERPROOF CONNECTION TO A GROUND ROD BURIED AT THE SAME DEPTH AS THE TRACER WIRE.
   - 6.5. ALL SERVICE LATERAL TRACER WIRES SHALL BE A SINGLE WIRE, CONNECTED TO THE MAINLINE TRACER WIRE USING AN APPROVED MAINLINE TO LATERAL LUG CONNECTOR, INSTALLED WITHOUT CUTTING/SPLICING THE MAINLINE TRACER WIRE.
   - 6.6. IN OCCURRENCES WHERE AN EXISTING TRACER WIRE IS ENCOUNTERED ON AN EXISTING UTILITY THAT IS BEING EXTENDED OR TIED INTO, THE NEW TRACER WIRE AND EXISTING TRACER WIRE SHALL BE CONNECTED USING APPROVED SPLICE CONNECTORS AND SHALL BE PROPERLY GROUNDED AT THE SPLICE LOCATION AS SPECIFIED.

7. STORM AND SANITARY SYSTEMS
   - 7.1. ALL SERVICE LATERAL TRACER WIRES MUST BE PROPERLY CONNECTED TO THE MAINLINE TRACER WIRE TO ENSURE FULL TRACING/LOCATING CAPABILITIES FROM A SINGLE CONNECTION POINT.
   - 7.2. LAY MAINLINE TRACER WIRE CONTINUOUSLY, BY–PASSING AROUND THE OUTSIDE OF MANHOLES/STRUCTURES ON THE NORTH OR EAST SIDE.
   - 7.3. TRACER WIRE ON ALL SEWER LATERALS MUST TERMINATE AT THE PROPERTY LINE WITH A COIL OF 6 FEET OF TRACER WIRE TAPED DIRECTLY TO THE SERVICE LATERAL AT THE EDGE OF THE ROAD RIGHT–OF–WAY OR AT AN APPROVED LOCATION.

8. WATER SYSTEMS
   - 8.1. A MAINLINE TRACER WIRE MUST BE INSTALLED, WITH ALL SERVICE LATERAL TRACER WIRES PROPERLY CONNECTED TO THE MAINLINE TRACER WIRE, TO PROMOTE TRACING/LOCATING CAPABILITIES FROM A SINGLE CONNECTION POINT.
   - 8.2. LAY MAINLINE TRACER WIRE CONTINUOUSLY, BY–PASSING AROUND THE OUTSIDE OF VALVES AND FITTINGS ON THE NORTH OR EAST SIDE.
   - 8.3. A SINGLE TRACER WIRE ONLY SHALL BE INSTALLED ON ALL WATER SERVICE LATERALS AND MUST TERMINATE AT AN APPROVED TRACER WIRE ACCESS POINT, COLOR CODED BLUE AND LOCATED DIRECTLY ABOVE THE SERVICE LATERAL AT THE EDGE OF ROAD RIGHT–OF–WAY.
   - 8.4. TRACER WIRE ACCESS POINTS WILL BE INSTALLED AT ALL FIRE HYDRANTS.
   - 8.5. ALL CONDUCTIVE AND NON–CONDUCTIVE SERVICE LINES SHALL INCLUDE TRACER WIRE.

9. TESTING
   - 9.1. ALL NEW TRACER WIRE INSTALLATIONS SHALL BE LOCATED USING TYPICAL LOW FREQUENCY (512HZ) LINE TRACING EQUIPMENT, WITNESSED BY THE CONTRACTOR, ENGINEER AND/OR FACILITY OWNER AS APPLICABLE, PRIOR TO ACCEPTANCE OF OWNERSHIP.
   - 9.2. CONTINUITY TESTING IN LIEU OF ACTUAL LINE TRACING SHALL NOT BE ACCEPTED.

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Town of Dolores

Waterline Ph. 2
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#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_SUE_Admin

Title:

Tracer Wire Notes

Dwg No.

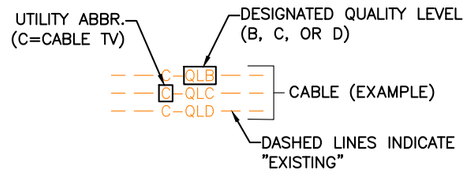
G-8

Of : 69

ABBREVIATIONS

ADS	ADVANCED DRAINAGE SYSTEM
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
BHEN	BLACK HILLS ENERGY
BOP	BOTTOM OF PIPE
C	CABLE TELEVISION
CMCT	COMCAST
CNLK	CENTURYLINK (AKA LUMEN)
COGS	CITY OF GLENWOOD SPRINGS
DIP	DUCTILE IRON PIPE
E	ELECTRIC
EL	ELEVATION
EX	EXISTING
FO	FIBER OPTIC
G	GAS
GPR	GROUND PENETRATING RADAR
INV	INVERT
MH	MANHOLE
PCL	PIPE AND CABLE LOCATE
PVC	POLYVINYL CHLORIDE (PLASTIC)
QL	QUALITY LEVEL
QLA	QUALITY LEVEL A
QLB	QUALITY LEVEL B
QLC	QUALITY LEVEL C
QLD	QUALITY LEVEL D
RCP	REINFORCED CONCRETE PIPE
SAN	SANITARY
SMH	SANITARY MANHOLE
STM	STORM
SUE	SUBSURFACE UTILITY ENGINEERING
T	TELEPHONE
TH	TEST HOLE
TOD	TOP OF DIRT
TON	TOP OF NUT
TOP	TOP OF PIPE
UTH	UTILITY TEST HOLE
W	WATER

UTILITY LINE TYPES WITH "QUALITY LEVELS"



EXISTING UTILITY LEGEND

	SYMBOL	DESCRIPTION
C-QLB	I C E F G T U W W	MARKERS (CATV, ELEC, FIBER) (TELE, TRAFFIC, UNKNOWN)
T-QLB	C E F / T TR U	PEDESTALS (CATV, ELEC, FIBER) (TELE, TRAFFIC, UNKNOWN)
F-QLB	E F IR / T U W C	MANHOLES (DRAINAGE, ELEC, FIBER, IRRIGATION, SANITARY, TELEPHONE, UNKNOWN, WATER, CATV)
TR-QLB	C E F / T TR U	VAULTS/HANDHOLES (CATV, ELEC, FIBER, TELE, TRAFFIC, UNKNOWN)
E-QLB	ET SC	ELECTRIC TRANSFORMER, SWITCH CABINET
ET-QLB	GV ICV	VALVES (WATER, GAS, SANITARY, IRRIGATION)
G-QLB		WATER SHUTOFF VALVE
HIGH PRESSURE GAS		FIRE HYDRANT
CA-QLB		WATER SPIGOT
S-QLB	G W	VENTS(GAS,WATER,SEWER,MISC.)
DR-QLB	GM EM WM	METERS (GAS, ELECTRIC, WATER)
W-QLB	G M W	WELL (GAS, MONITOR, WATER)
IRR-QLB		CLEAN-OUT
NON-POTABLE WATER	P P	PROPANE TANK (ABOVE-GROUND, UNDERGROUND)
UNK	ICB	IRRIGATION CONTROL BOX
SUE	SPR	IRRIGATION SPRINKLER HEAD
ABANDON		IRRIGATION HEAD GATE
		PVC PIPE "RISER"
		UTILITY POLE
		UTILITY POLE WITH TRANSFORMER
		GUY WIRE
		STREET LIGHT POLE
	TR	TRAFFIC SIGNAL POLE
		TRAFFIC LIGHT POLE
		CHANGE IN QUALITY LEVEL
		UTILITY TEST HOLE LOCATION
		STORM INLETS

CONTACT LIST OF UTILITY OWNERS WITHIN VICINITY OF PROJECT LIMITS

ORGANIZATION NAME	ABBR	UTILITY TYPE(S)	CONTACT NAME	CONTACT PHONE	CONTACT EMAIL	RECORDS RECEIVED?
ATMOS ENERGY	ATMS	GAS	GARY ARNETT	(970) 385-3283	Gary.Arnett@atmosenergy.com	NO
CEDAR NETWORKS	CEDR	FIBER/COMM	CHRIS	(970)-403-4588	chris@cedarnetworks.com	YES
CHARTER – DURANGO	CHTR	FIBER/COMM	JEFF VALDEZ	N/A	jeff.valdez@charter.com	YES
TOWN OF DOLORES	TODO	WATER/SEWER		970-882-7720		YES
EMPIRE ELECTRIC ASSC	EMEL	ELECTRIC	DALTON RANDOLPH	970-564-4418	dalton.randolph@eea.coop	YES
FAST TRACK COMM.	FSTK	FIBER/COMM	DAVID SNEESBY	(970) 240-6600 Ext. 848	Davids@deeplydigital.com	YES
CENTURY LINK(LUMEN)	CNLK	TELEPHONE	GUY ONAN	N/A	Guy.O'Nan@lumen.com	YES
ZAYO BANDWITH	ZAYO	FIBER/COMM	N/A	N/A	N/A	NO

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Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_SUE_Admin

Title: Utility Legend and Utility Owners

Dwg No. SUE-1

Of: 69

TEST HOLE TABLE

TH #	UTILITY OWNER	UTILITY TYPE	GENERAL LOCATION DESCRIPTION	QUANTITY (EACH)	SIZE (IN)	MATERIAL	UNDERGROUND ALIGNMENT	GROUND CONDITION	NORTHING	EASTING	GROUND ELEV (FT)	DEPTH TO TOP (FT)	DEPTH TO BOP (FT)	TOP ELEV (FT)	BOP ELEV (FT)	DATE PERFORMED	COMMENTS / JUSTIFICATIONS
1	ATMOS	GAS	CENTRAL AVE & 2ND ST	1	2.5	COATED STEEL	E-W	ROCKY	61555.01	28469.89	6933.12	1.85	2.06	6931.27	6931.06	6/18/2025	
2	ATMOS	GAS	2ND ST	1	1.0	PVC	E-W	ROCKY	60971.97	28560.07	6931.23	3.00	3.08	6928.23	6928.14	6/19/2025	
3	ATMOS	GAS	5TH ST & ALLEY	1	2.5	COATED STEEL	N-S	ROCKY	62049.86	29813.08	6940.01	1.96	2.17	6938.05	6937.85	6/18/2025	
4	ATMOS	GAS	5TH ST & ALLEY	1	2.5	COATED STEEL	E-W	ROCKY	61987.22	29814.87	6939.04	1.47	1.68	6937.57	6937.36	6/18/2025	
5	ATMOS	GAS	5TH ST & ALLEY	1	2.5	COATED STEEL	E-W	ROCKY	61950.68	29609.91	6937.51	1.53	1.74	6935.98	6935.77	6/18/2025	
6	ATMOS	GAS	4TH ST & ALLEY	1	2.5	COATED STEEL	E-W	ROCKY	61886.51	29213.00	6937.07	2.55	2.76	6934.52	6934.32	6/18/2025	
7	ATMOS	GAS	CENTRAL AVE & 3RD AND 4TH ST	1	4.5	COATED STEEL	N-S	ROCKY	61666.47	29063.45	6935.42	3.42	3.80	6932.00	6931.63	6/18/2025	
8	ATMOS	GAS	CENTRAL AVE & 3RD ST	1	2.5	COATED STEEL	E-W	ROCKY	61656.14	28851.61	6935.20	1.80	2.01	6933.40	6933.20	6/18/2025	
8.1	Town of Dolores	STORM	CENTRAL AVE & 3RD ST	1	10.00	CMP	E-W	ROCKY	61654.97	28851.84	6935.18	1.10	1.93	6934.08	6933.24	6/18/2025	
9	ATMOS	GAS	CENTRAL AVE & 2ND ST ALLEY	1	2.50	COATED STEEL	E-W	ROCKY	61589.15	28674.98	6934.58	2.10	2.31	6932.48	6932.27	6/18/2025	
10	ATMOS	GAS	4TH ST & RIVERSIDE AVE	1	2.5	COATED STEEL	E-W	ROCKY	61092.53	29353.63	6935.82	1.45	1.66	6934.37	6934.16	6/19/2025	
11	ATMOS	GAS	CENTRAL AVE & B ST	1	2.5	COATED STEEL	SW-NE	ROCKY	61239.65	27816.51	6932.00	1.45	1.66	6930.55	6930.34	6/18/2025	
12	Town of Dolores	WATER	CENTRAL AVE & 2ND ST	1	8.0	PVC	E-W	ROCKY	61575.64	28464.57	6933.54	4.75	5.42	6928.79	6928.12	6/18/2025	
13	Town of Dolores	WATER	CENTRAL AVE & 2ND ST ALLEY	1	8.0	PVC	E-W	ROCKY	61611.85	28671.70	6934.75	3.75	4.42	6931.00	6930.33	6/18/2025	
14	Town of Dolores	WATER	3RD ST & RAILROAD AVE	DNF	DNF	DNF	DNF	ROCKY	61295.65	28906.87	6933.58	DNF	DNF	DNF	DNF	6/19/2025	DNF - 6.5' WIDE BY 6.5' DEEP TRENCH. SHOT ON CENTER OF TRENCH. NO WATER FOUND.
15	Town of Dolores	WATER	6TH ST & HILLSIDE AVE.	1	4.5	CAST IRON	E-W	ROCKY	62209.91	30037.57	6943.07	3.18	3.56	6939.89	6939.52	6/19/2025	
16	ZAYO	FIBER	CENTRAL AVE & 2ND ST	1	2.0	PVC	E-W	ROCKY	61559.07	28472.66	6933.59	3.22	3.39	6930.37	6930.20	6/19/2025	
17	ZAYO	FIBER	CENTRAL AVE & 2ND ST ALLEY	1	2.0	PVC	SW-NE	ROCKY	61592.27	28675.40	6934.70	2.97	3.14	6931.73	6931.57	6/19/2025	
18	ZAYO	FIBER	CENTRAL AVE & 2ND ST	1	2.0	PVC	SW-NE	ROCKY	62116.36	29988.41	6941.78	3.27	3.44	6938.51	6938.34	6/19/2025	
19	ATMOS	GAS	5TH ST ALLEY & RIVERSIDE AVE	1	2.5	COATED STEEL	N-S	ROCKY	61098.87	29965.23	6940.17	1.98	2.19	6938.19	6937.98	6/19/2025	

SGM
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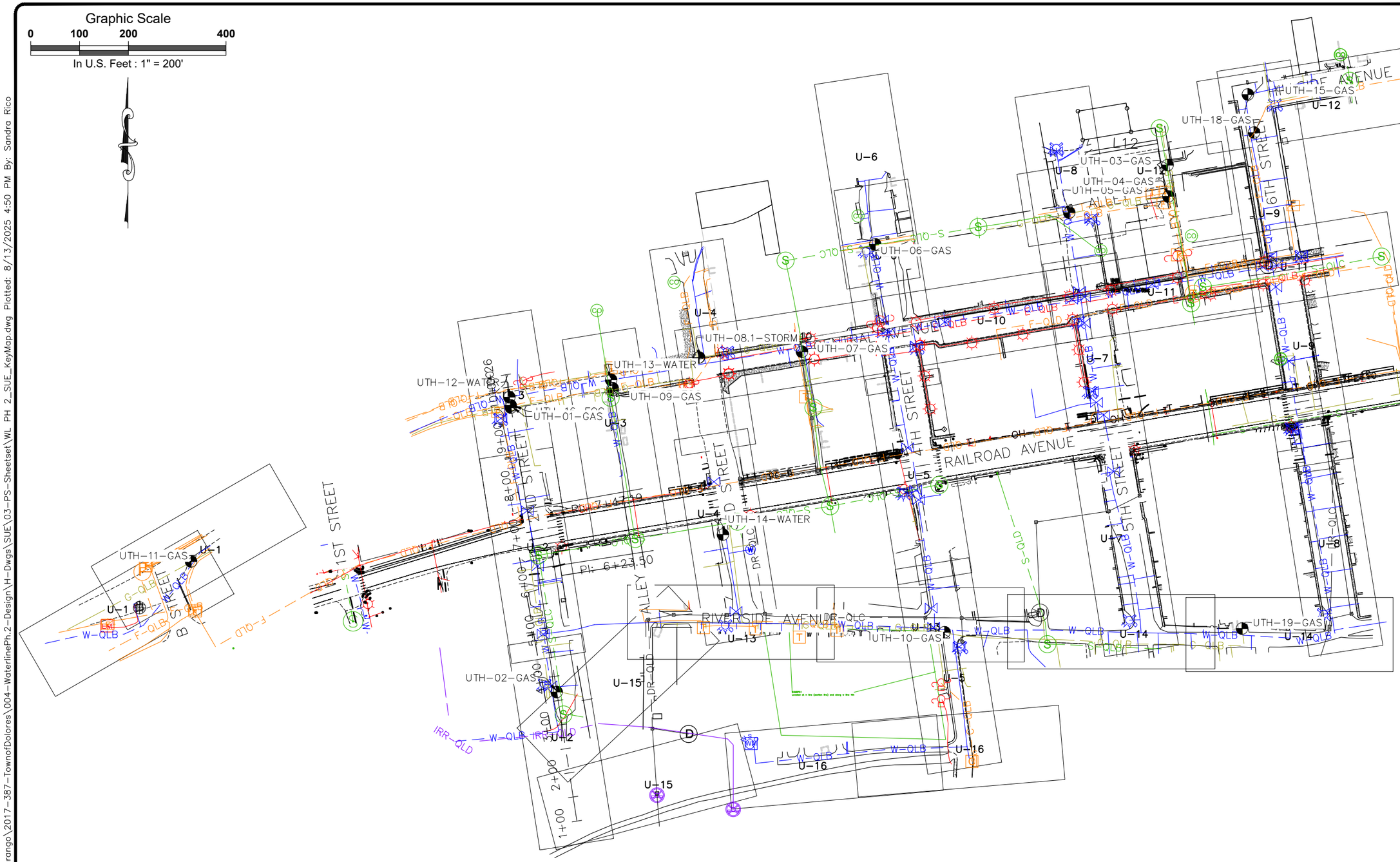
File:	WL PH 2_SUE_Admin

Title: Test Hole Table

Dwg No. SUE-2

Of : 69



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QC:	SAK PE: CAC
File:	WL PH 2_SUE_KeyMap

Title:

SUE-3 EX Utilities Key Map

Dwg No.

Of : 69

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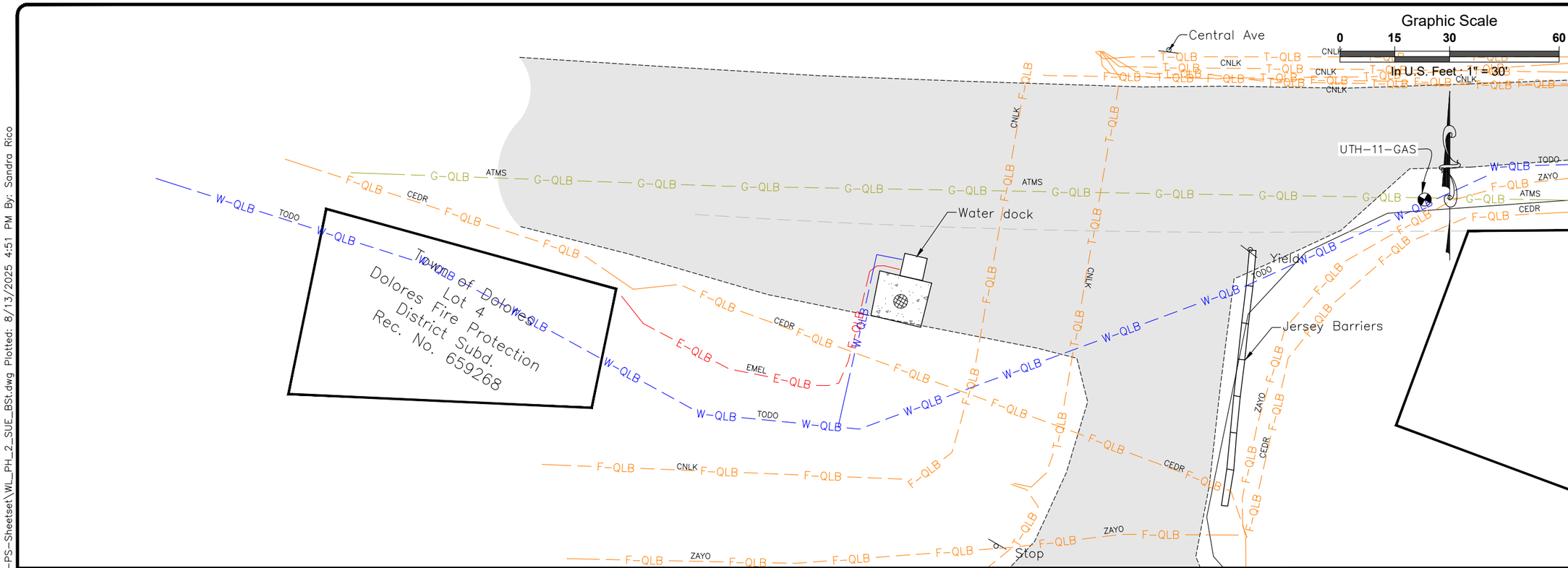

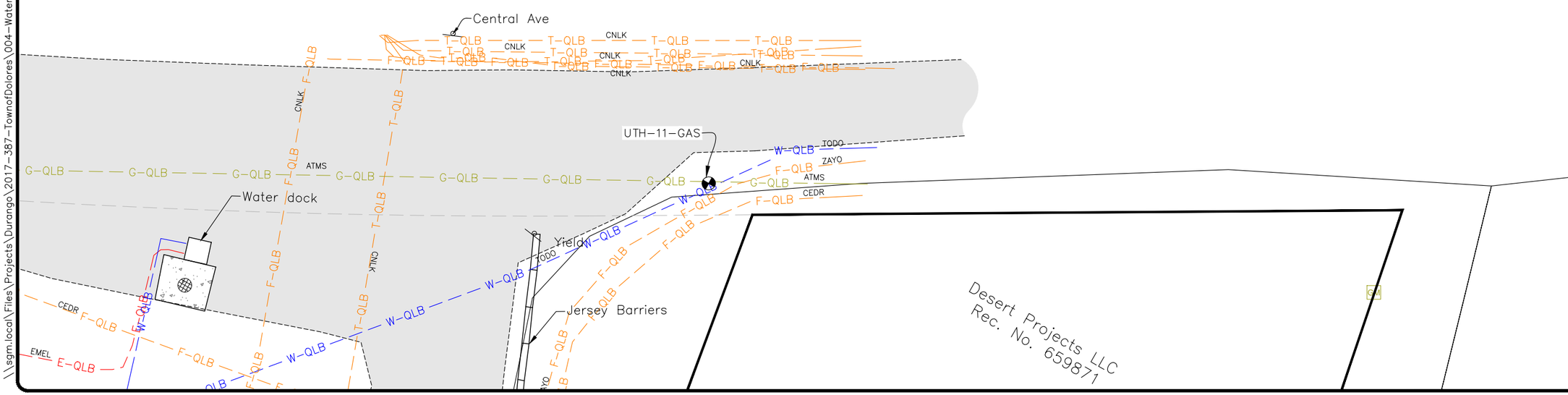

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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL_PH_2_SUE_BSt

Title:

EX UTILITIES - B ST

Dwg No.

U-1

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\SUE\03-PS-Sheetset\WL_PH_2_SUE_BSt.dwg Plotted: 8/13/2025 4:51 PM By: Sandra Rico

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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL_PH_2_SUE_2ndSt

Title:

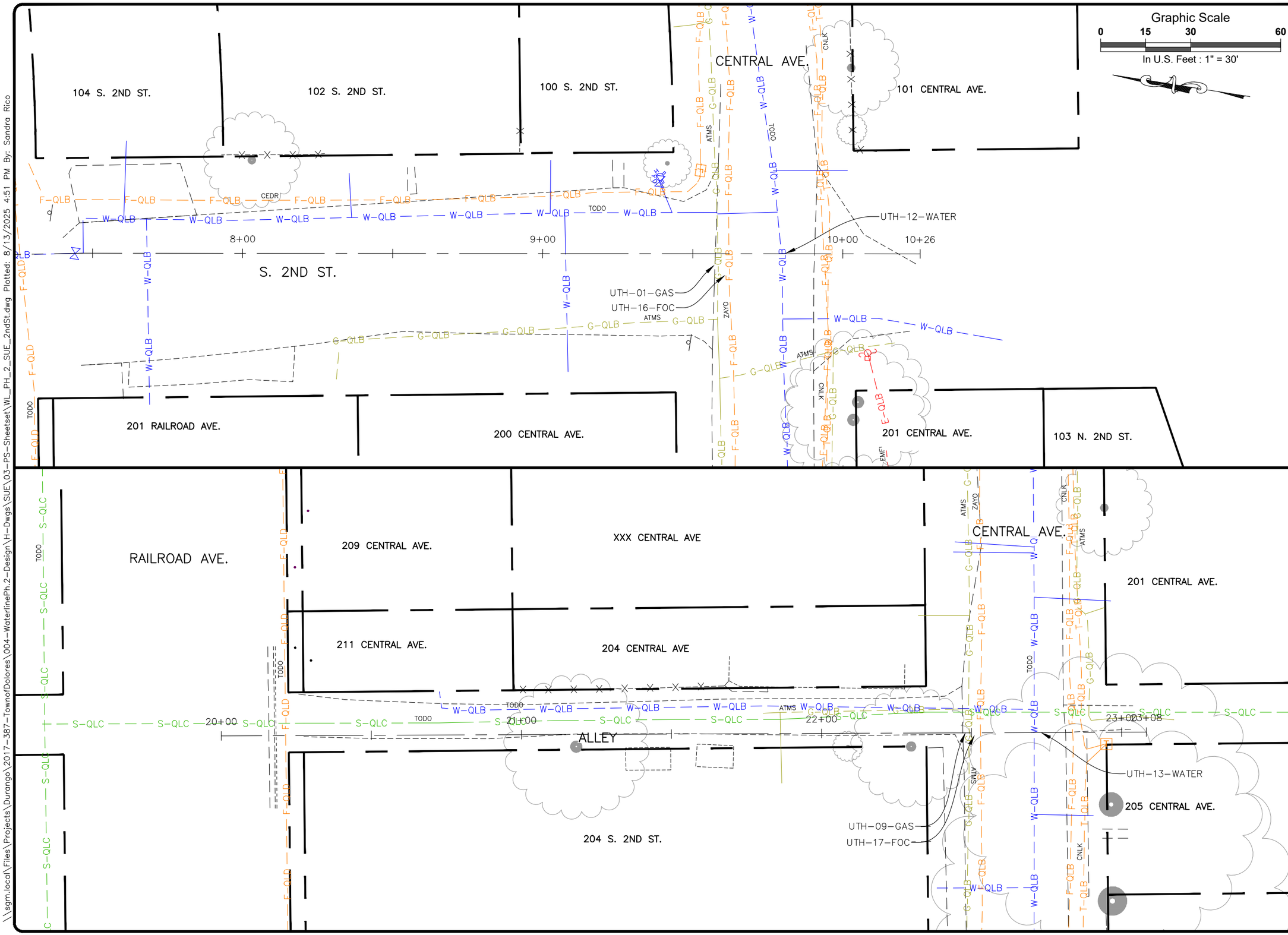
EX UTILITIES - S. 2nd St.

Dwg No.

U-2

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\SUE\03-PS-Sheetset\WL_PH_2_SUE_2ndSt.dwg Plotted: 8/13/2025 4:51 PM By: Sandra Rico



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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL_PH_2_SUE_2ndSt

Title:

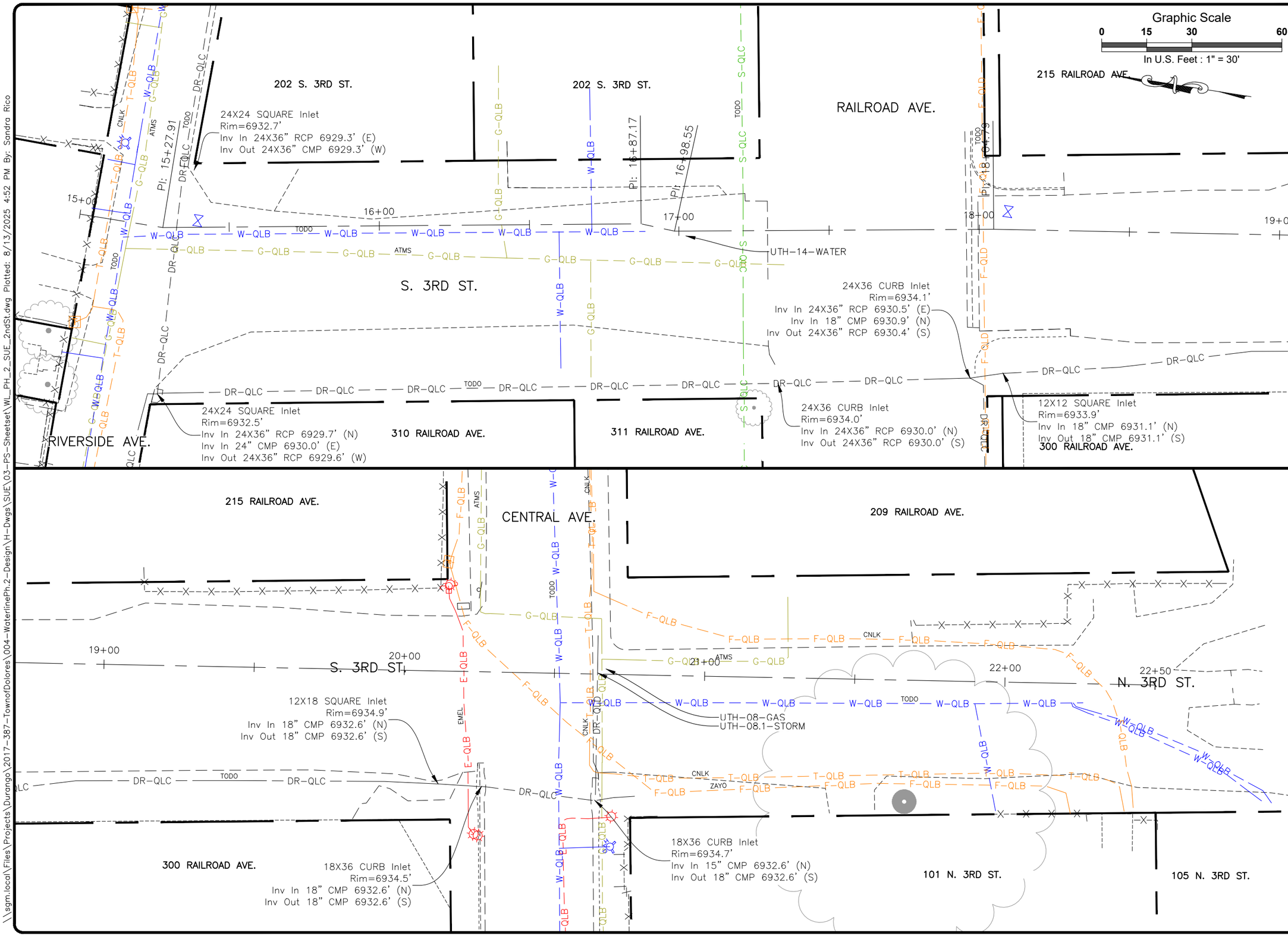
EX UTILITIES - N. 2nd St. & Alley

Dwg No.

U-3

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\SUE\03-PS-Sheetset\WL_PH_2_SUE_2ndSt.dwg Plotted: 8/13/2025 4:51 PM By: Sandra Rico



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Town of Dolores
Waterline Ph. 2 (2nd to 6th Streets)

#	Revision	Date	By:
1			

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL_PH_2_SUE_2ndSt

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Title:

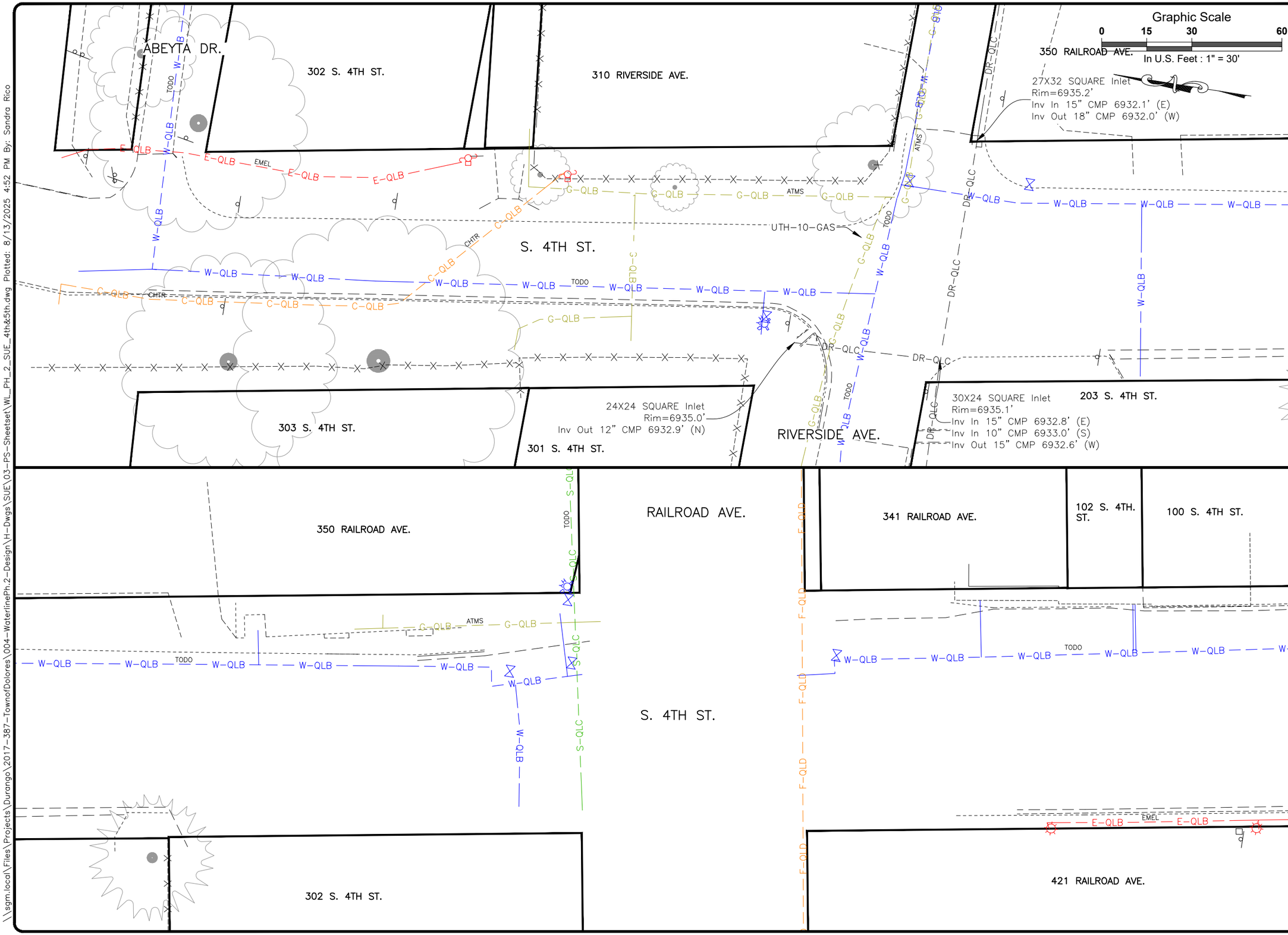
EX UTILITIES - 3rd St.

Dwg No.

U-4

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\SUE\03-PS-Sheetset\WL_PH_2_SUE_2ndSt.dwg Plotted: 8/13/2025 4:52 PM By: Sandra Rico



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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL_PH_2_SUE_4th&5th

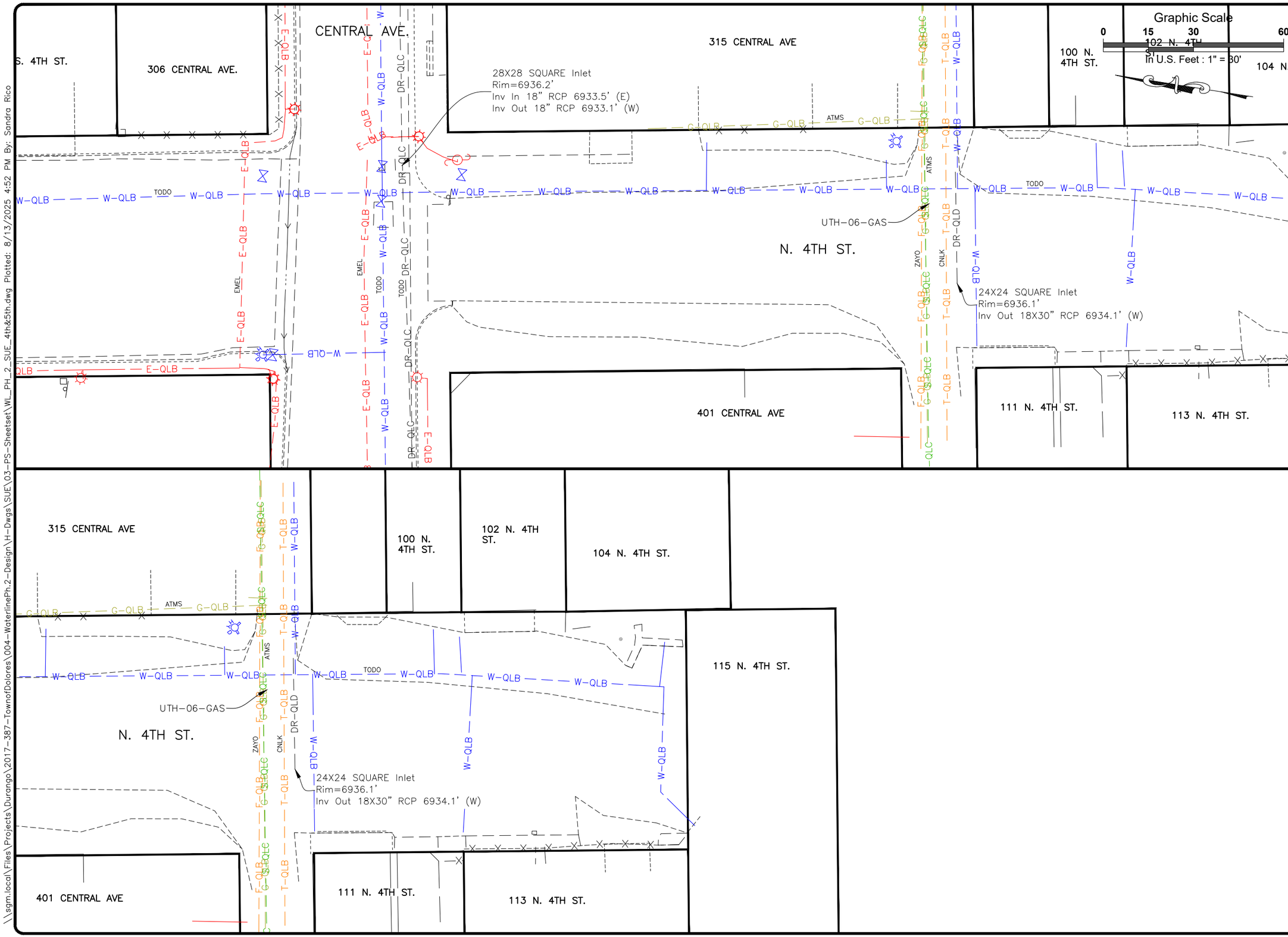
Title:

EX UTILITIES - S. 4th St.

Dwg No.

U-5

Of : 69



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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL_PH_2_SUE_4th&5th

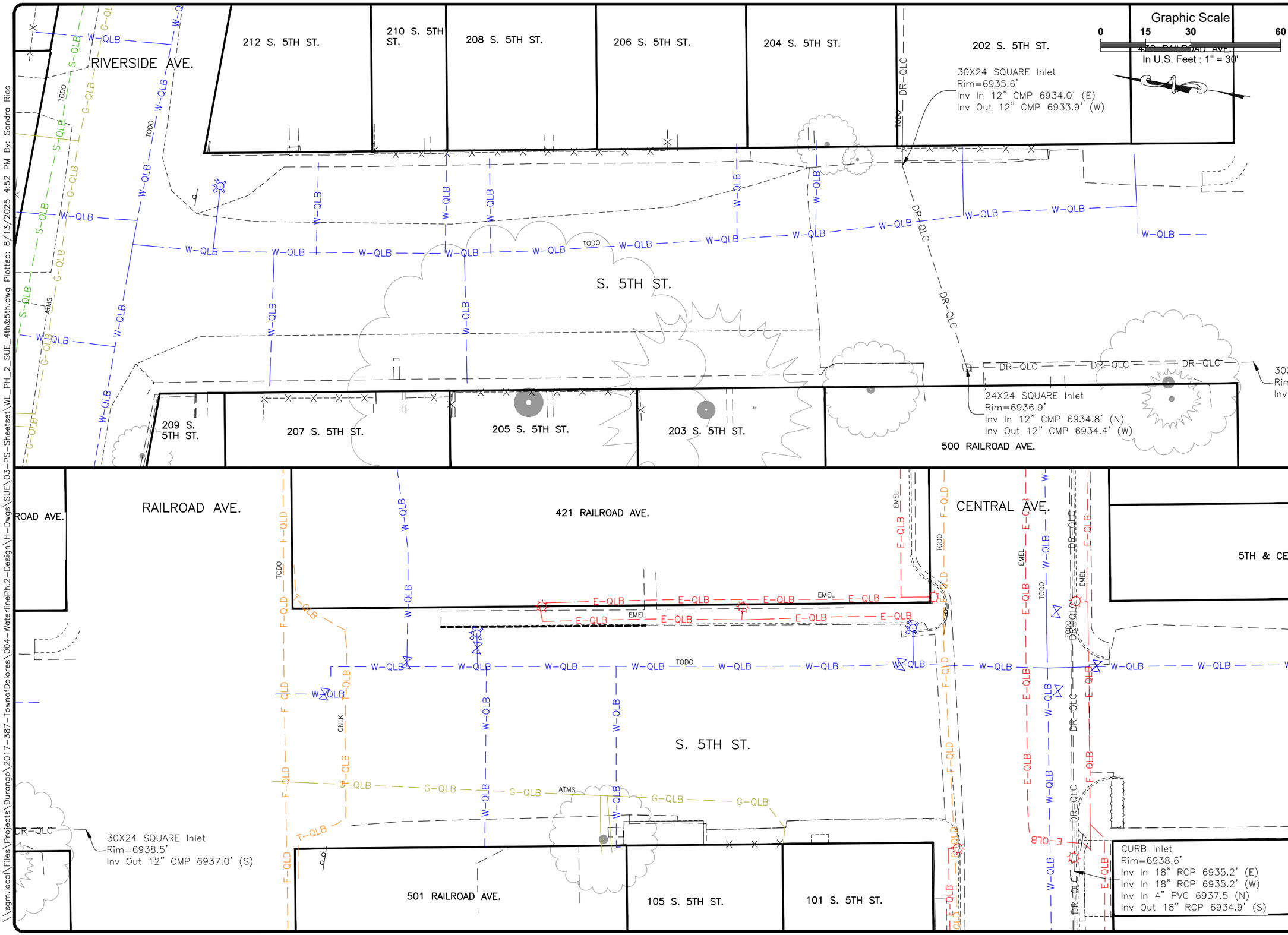
Title:

EX UTILITIES - N. 4th St.

Dwg No.

U-6

Of : 69



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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL_PH_2_SUE_4th&5th

Title:

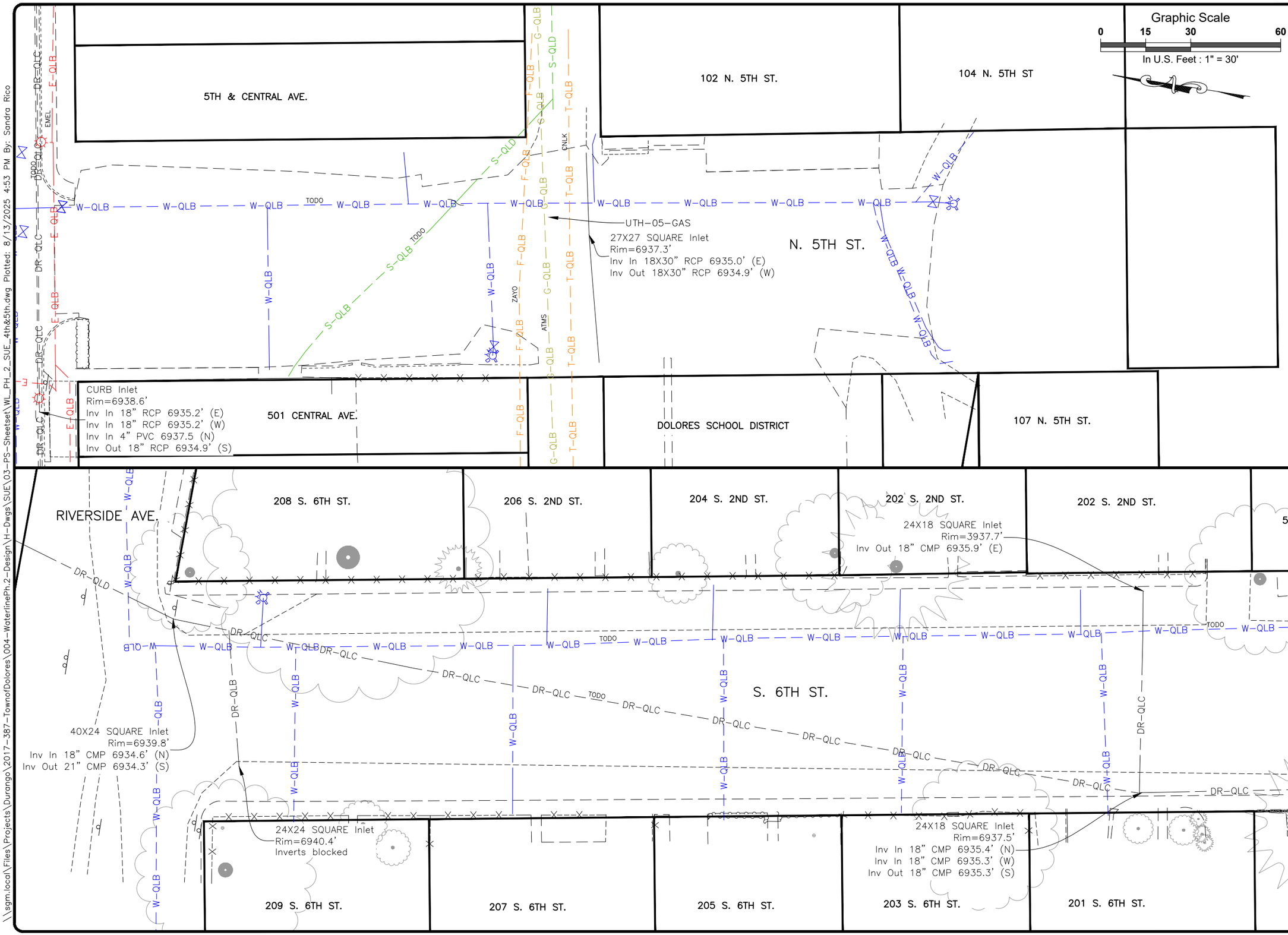
EX UTILITIES - S. 5th St.

Dwg No.

U-7

Of: 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\SUE\03-PS-Sheetset\WL_PH_2_SUE_4th&5th.dwg Plotted: 8/13/2025 4:52 PM By: Sandra Rico



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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL_PH_2_SUE_4th&5th

Title:

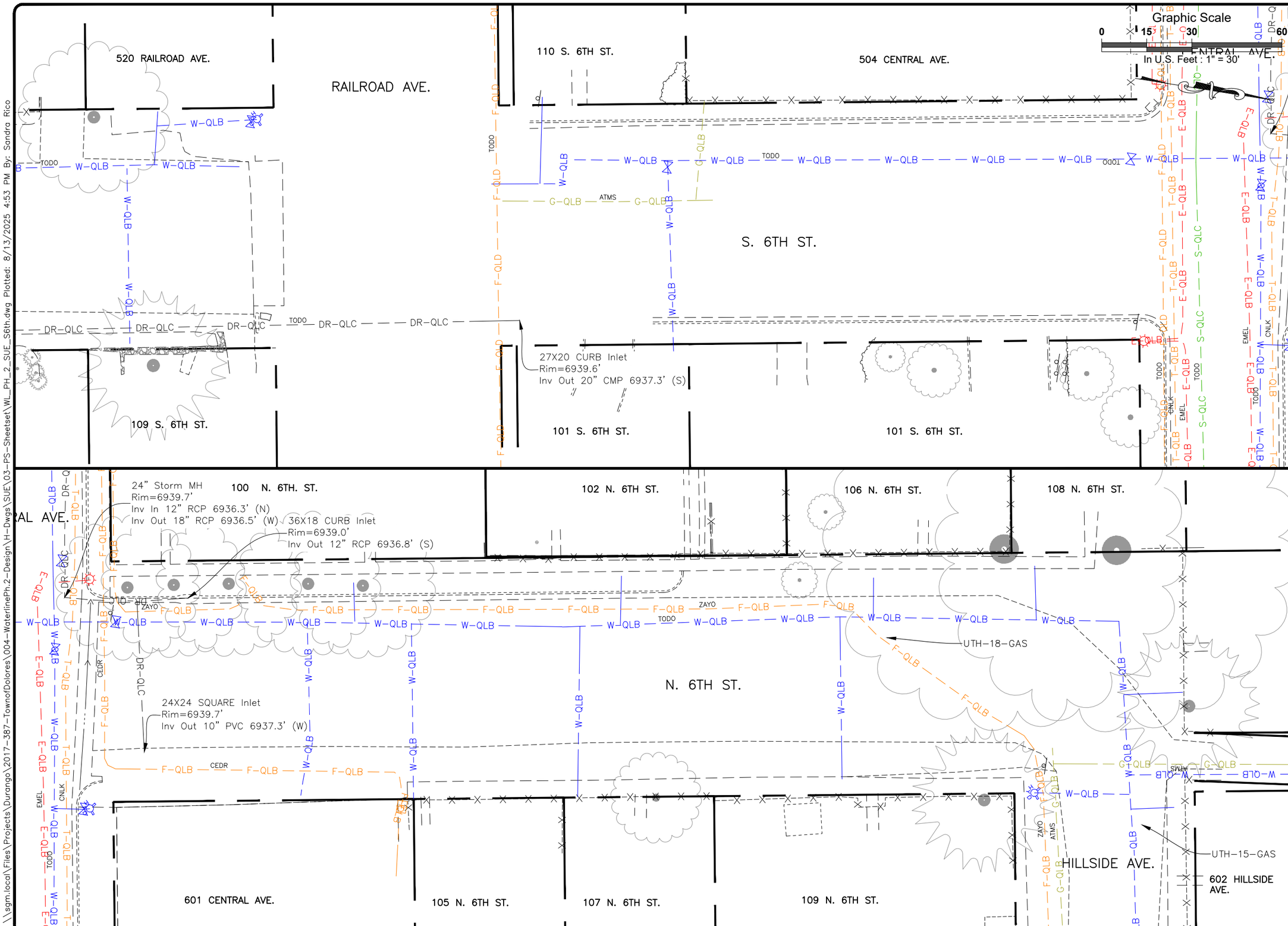
EX UTILITIES - N. 5th St & S. 6th St.

Dwg No.

U-8

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\SUE\03-PS-Sheetset\WL_PH_2_SUE_4th&5th.dwg Plotted: 8/13/2025 4:53 PM By: Sandra Rico



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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL_PH_2_SUE_S6th

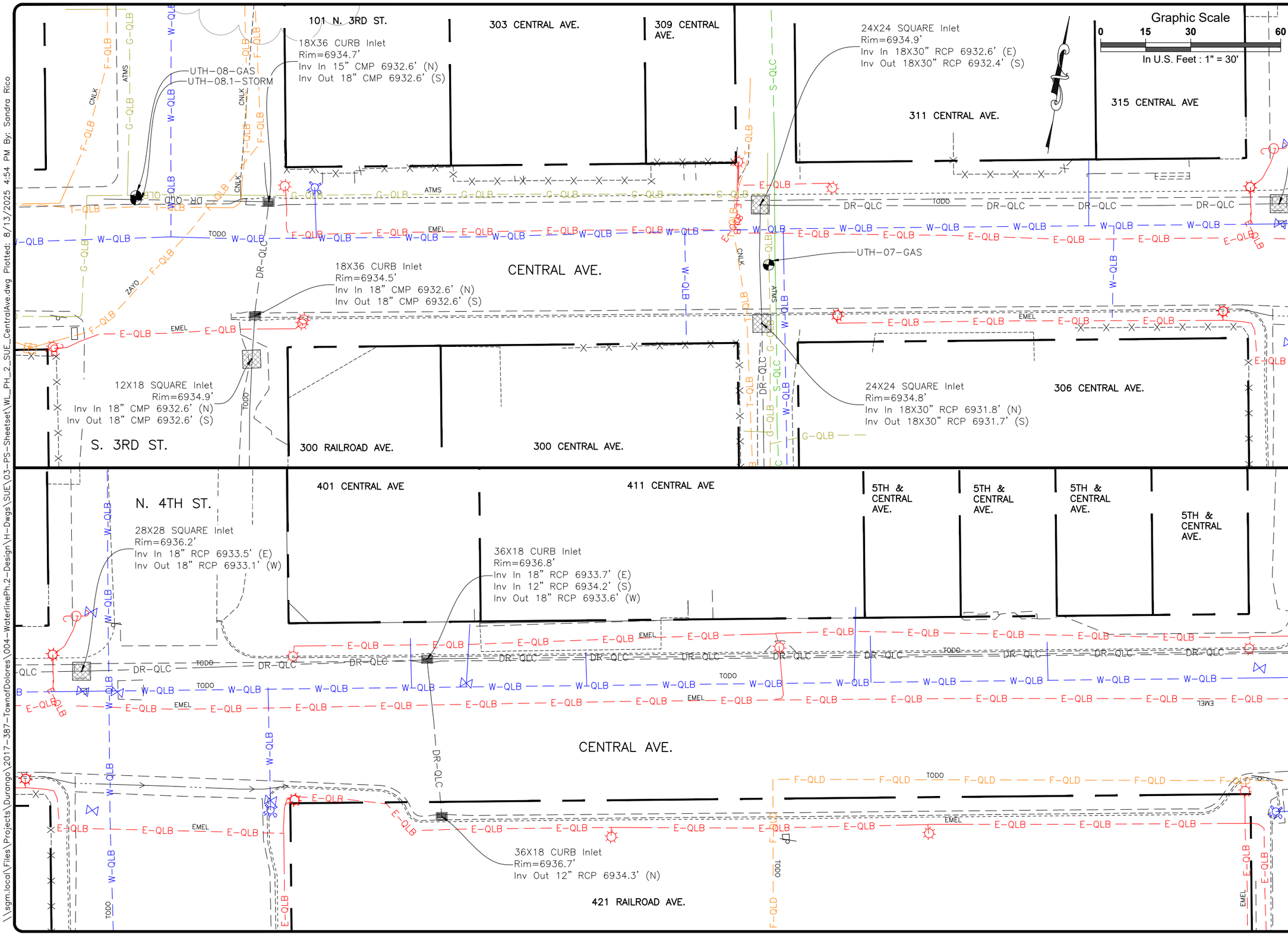
Title:

EX UTILITIES - N. 6th St.

Dwg No.

U-9

Of : 69



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Waterline Ph. 2 (2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File: WL_PH_2_SUE_CentralAve	

Title:

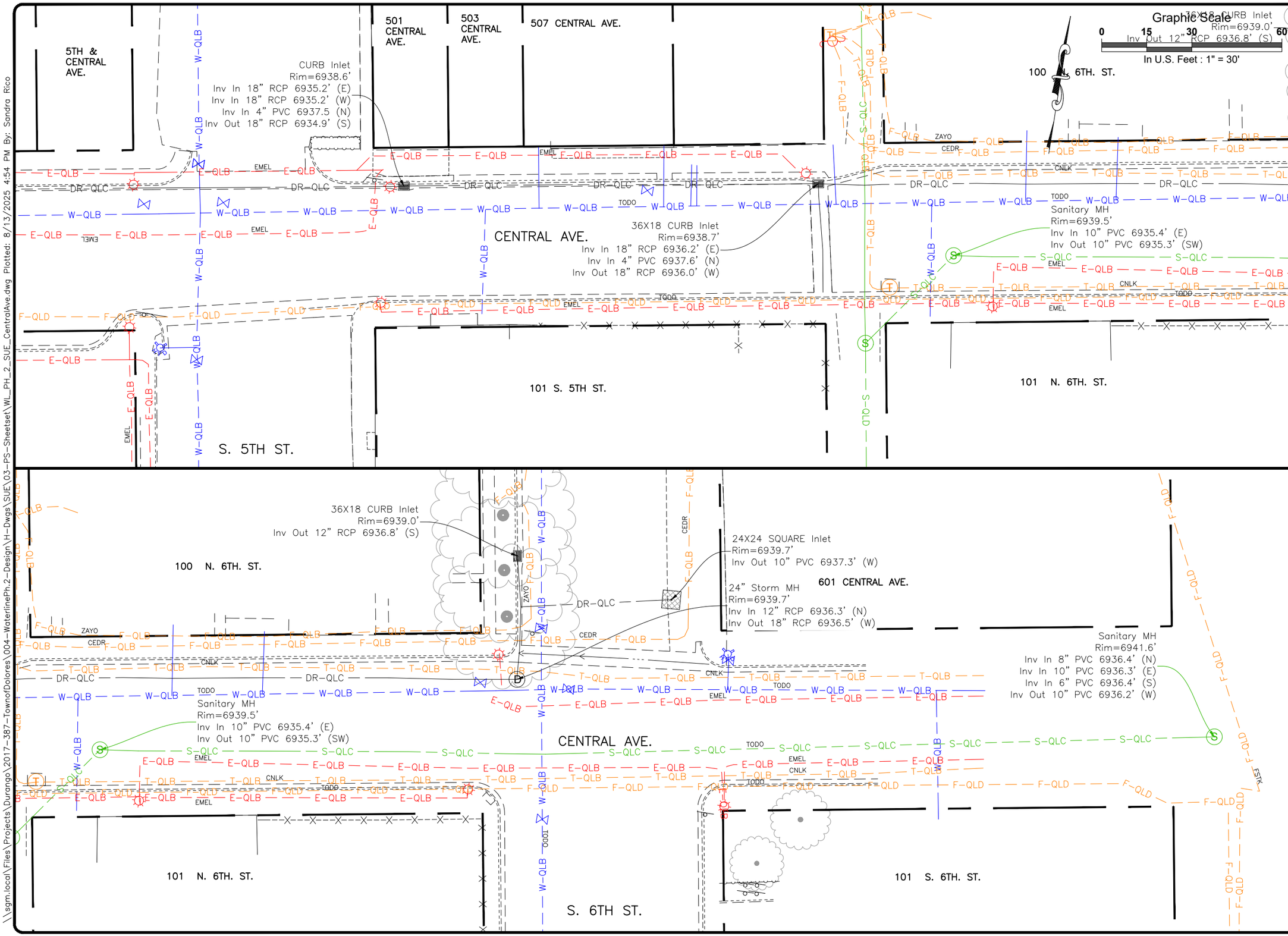
EX UTILITIES - Central Ave 1 of 2

Dwg No.

U-10

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\SUE\03-PS-Sheetset\WL_PH_2_SUE_CentralAve.dwg Plotted: 8/13/2025 4:54 PM By: Sandra Rico



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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL_PH_2_SUE_CentralAve

Title:

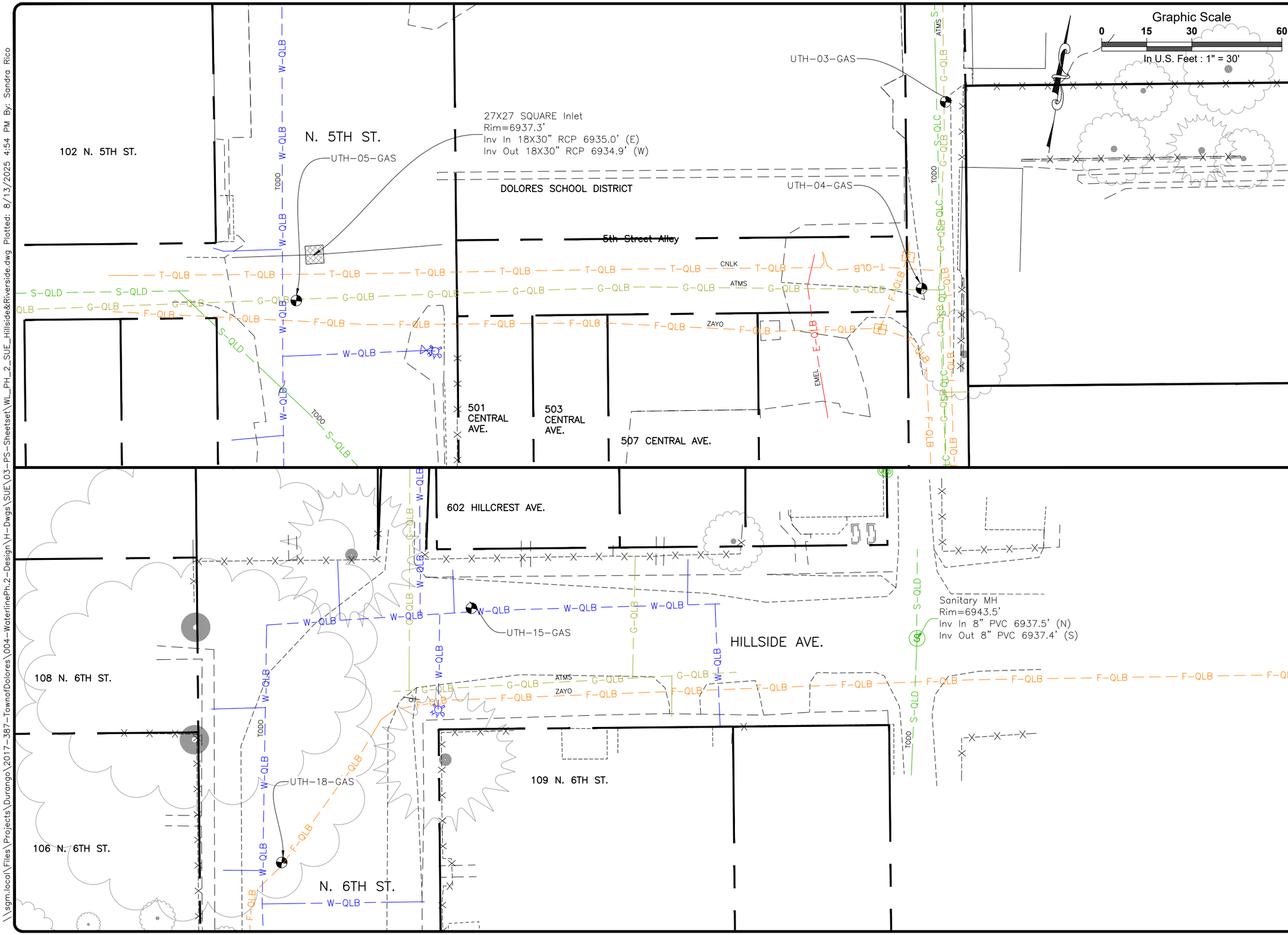
EX UTILITIES - Central Ave 2 of 2

Dwg No.

U-11

Of: 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\SUE\03-PS-Sheetset\WL_PH_2_SUE_CentralAve.dwg Plotted: 8/13/2025 4:54 PM By: Sandra Rico



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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

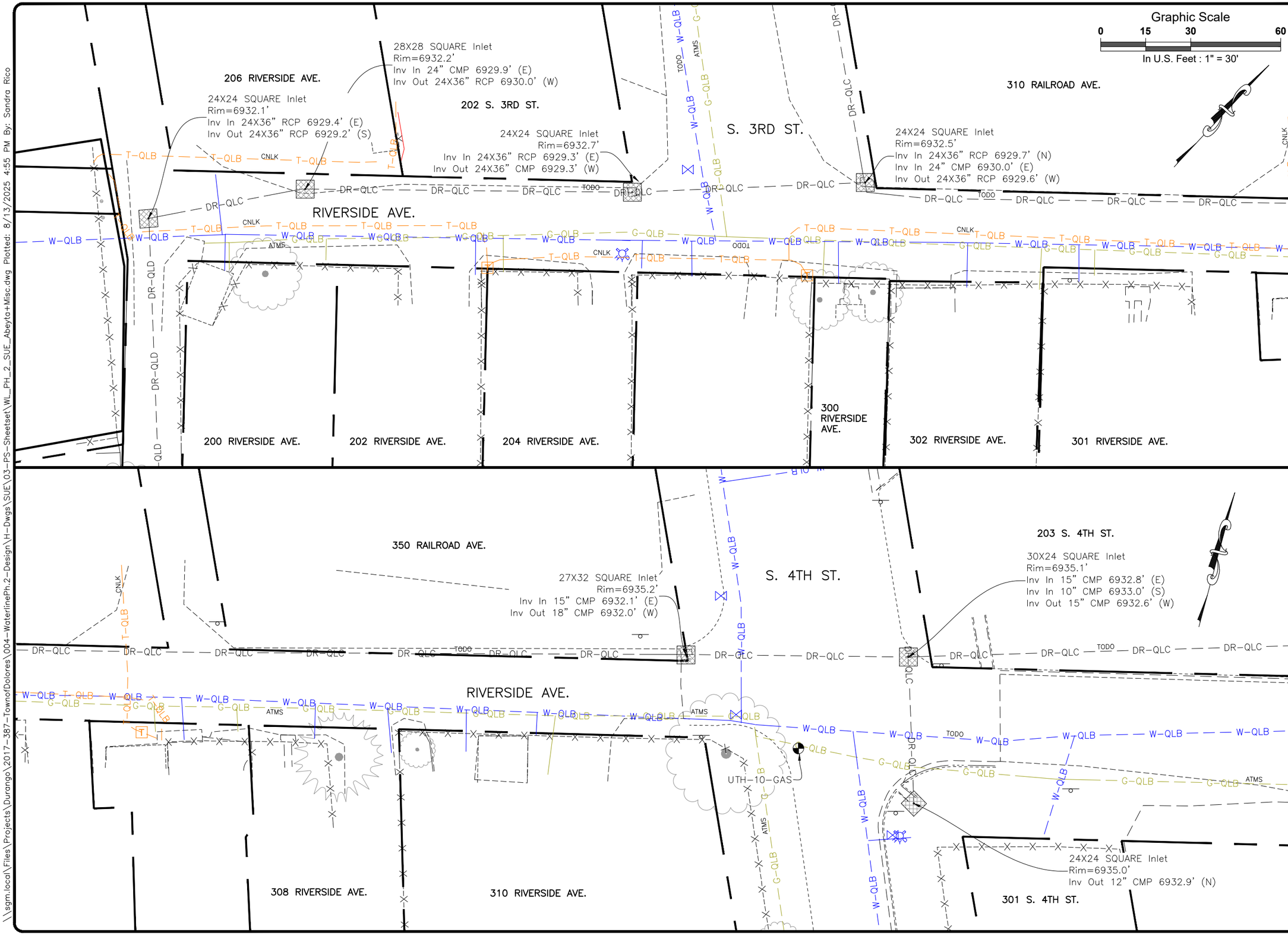
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File	PH_2_SUE_Hillside&Riverside

Title:
EX UTILITIES - N. 5th St Alley & N. 6th St at Hillside Ave.

Dwg No.
U-12

Of: 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\SUE\03-PS-Sheetset\WL_PH_2_SUE_Hillside&Riverside.dwg Plotted: 8/13/2025 4:54 PM By: Sandra Rico



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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

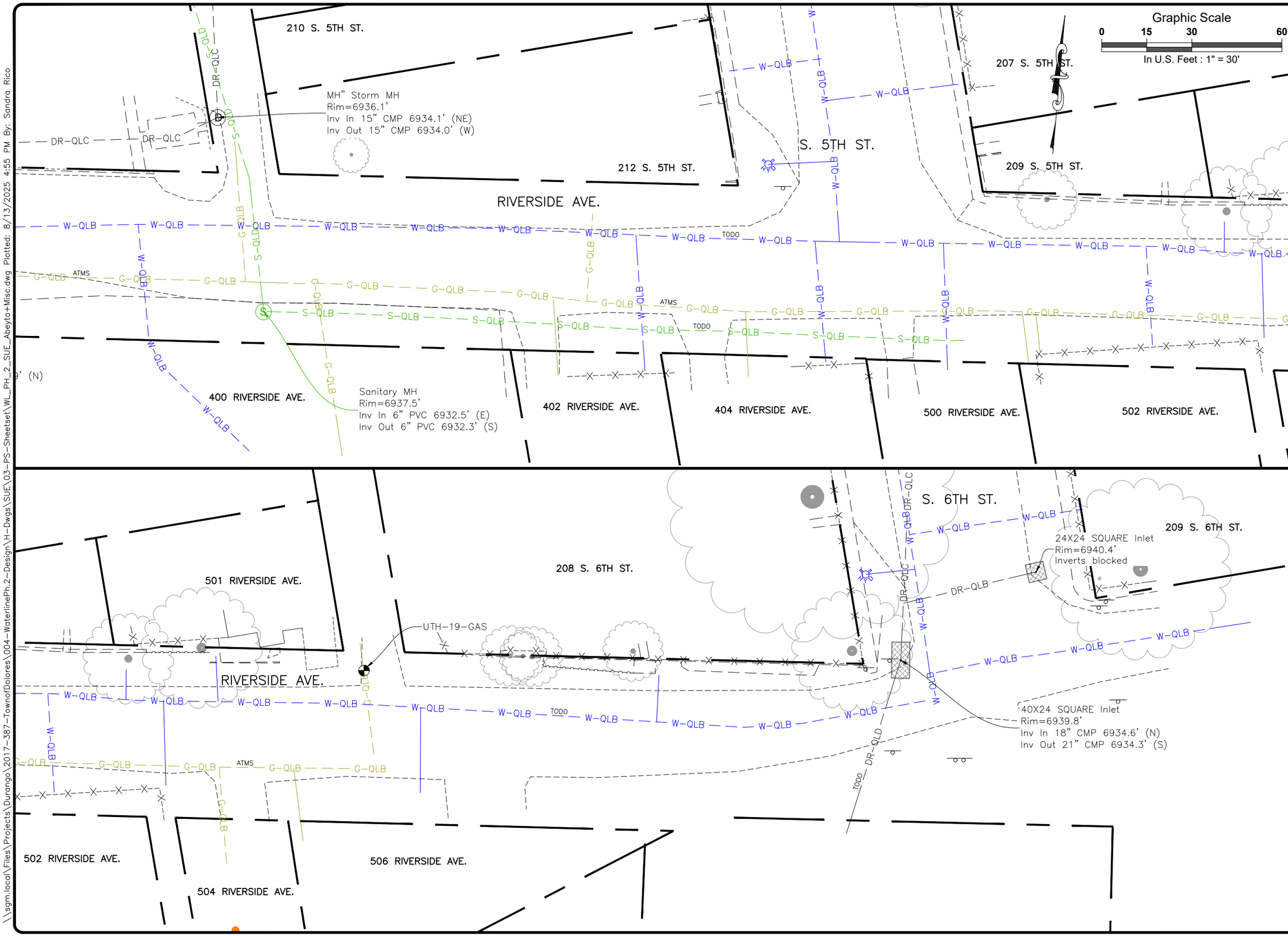
Job No. 2017-387.004
Drawn by: SKR
Date: 07.01.2025
QC: SAK PE: CAC
File:WL_PH_2_SUE_Abeyta+Misc

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Title:
EX UTILITIES -
Riverside Ave 1 of 2

Dwg No.
U-13
Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\SUE\03-PS-Sheetset\WL_PH_2_SUE_Abeyta+Misc.dwg Plotted: 8/13/2025 4:55 PM By: Sandra Rico



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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File	WL_PH_2_SUE_Abeyta+Misc

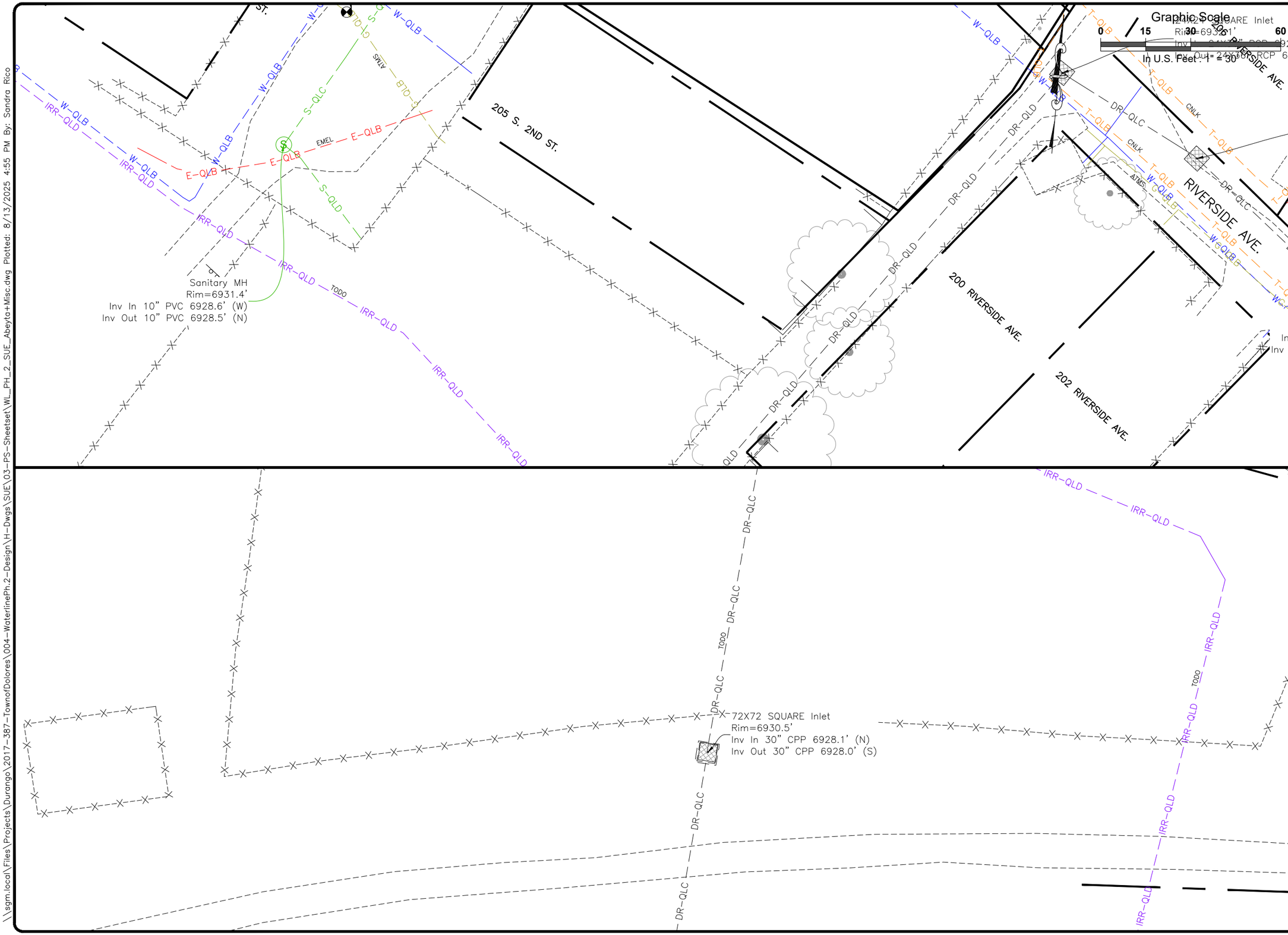
Title:

EX UTILITIES -
Riverside Ave 2 of 2

Dwg No.

U-14

Of : 69



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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File: WL_PH_2_SUE_Abeyta+Misc	

Title:

EX UTILITIES - Orchard & Additional

Dwg No.

U-15

Of : 69

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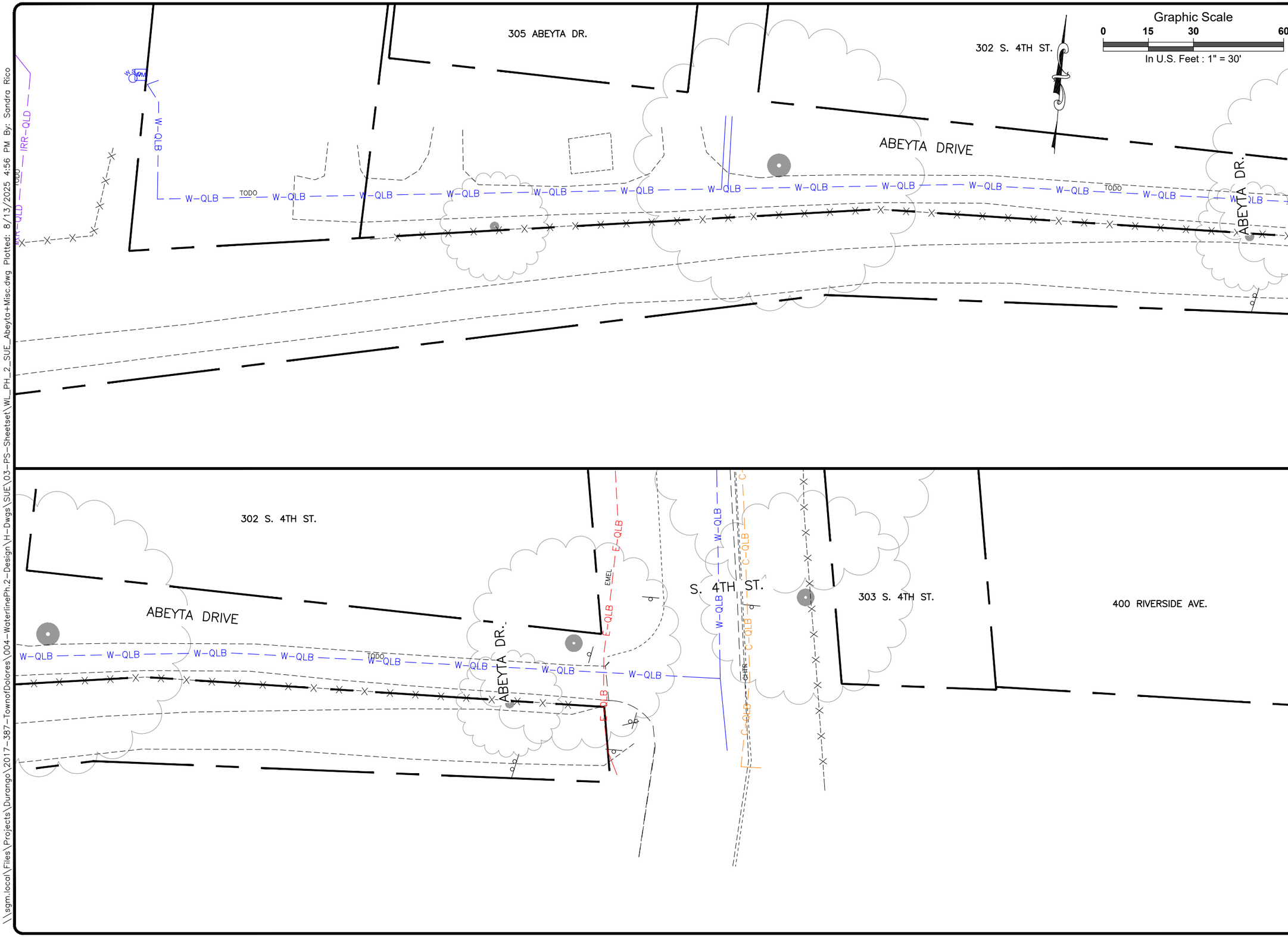

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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL_PH_2_SUE_Abeyta+Misc

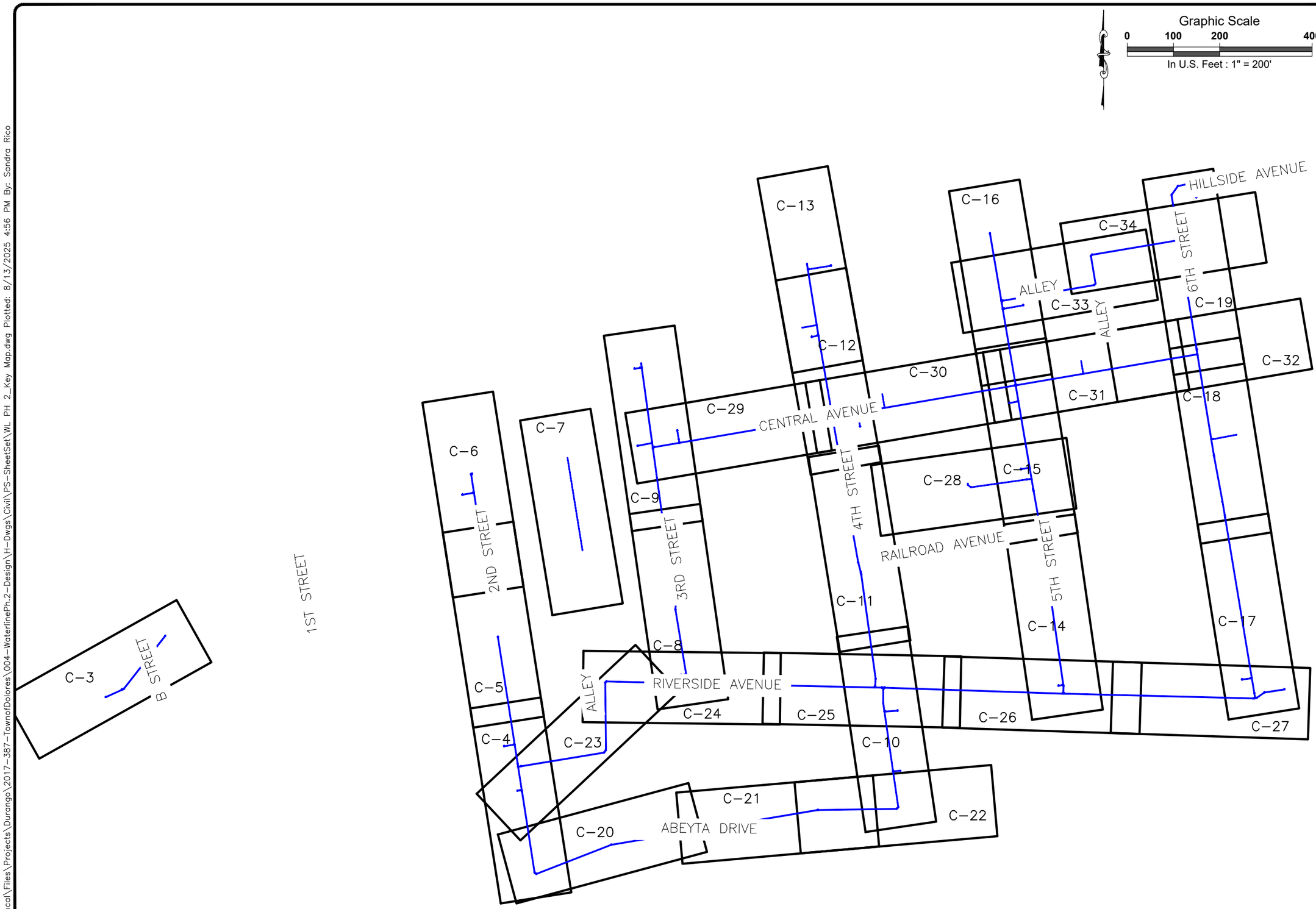
Title:

EX UTILITIES - Abeyta Dr.

Dwg No.

U-16

Of : 69



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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_Key Map

Title:

Dolores Waterline Ph. 2
Key Map

Dwg No.

C-1

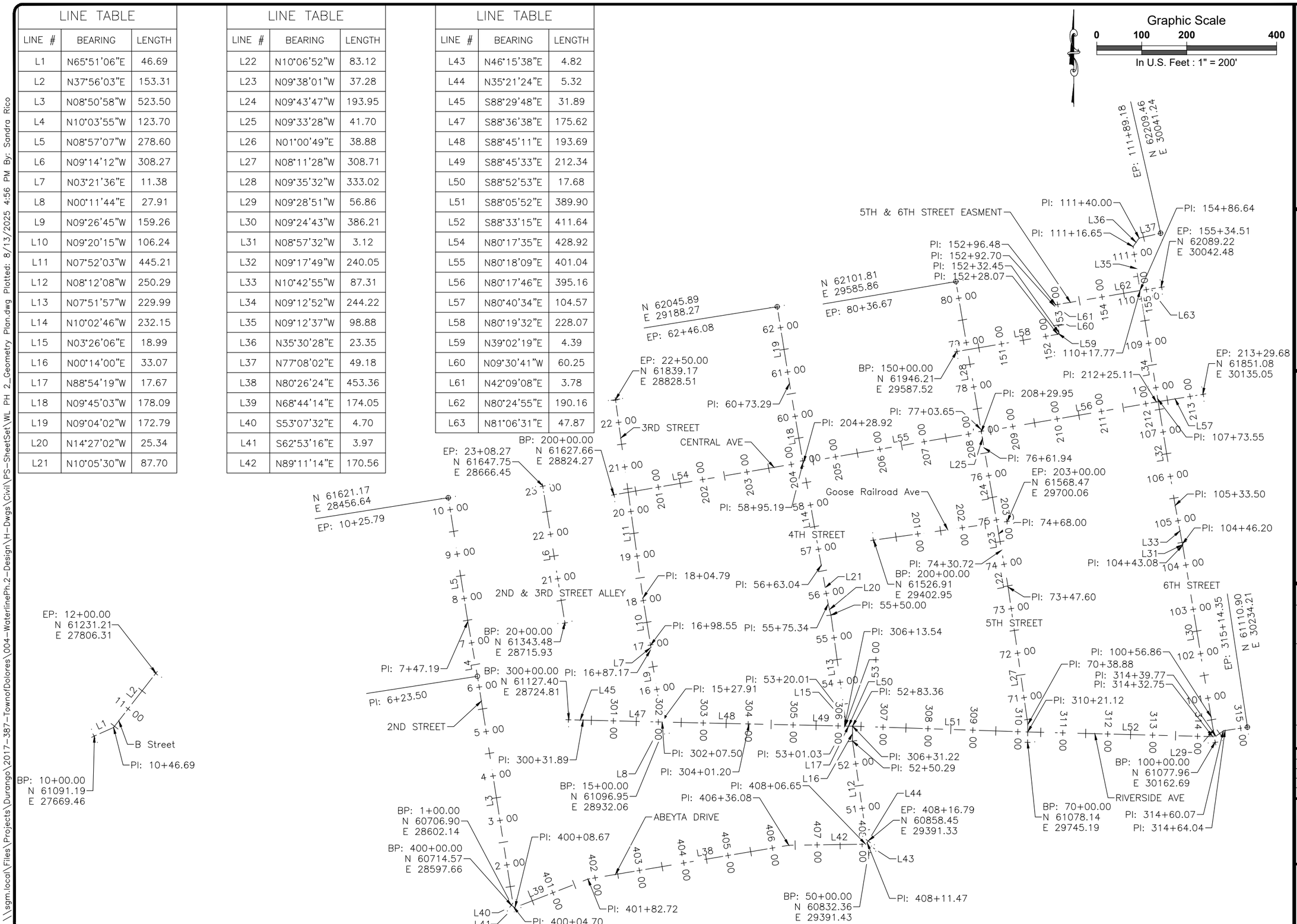
Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_Key Map.dwg Plotted: 8/13/2025 4:56 PM By: Sandra Rico

LINE TABLE		
LINE #	BEARING	LENGTH
L1	N65°51'06"E	46.69
L2	N37°56'03"E	153.31
L3	N08°50'58"W	523.50
L4	N10°03'55"W	123.70
L5	N08°57'07"W	278.60
L6	N09°14'12"W	308.27
L7	N03°21'36"E	11.38
L8	N00°11'44"E	27.91
L9	N09°26'45"W	159.26
L10	N09°20'15"W	106.24
L11	N07°52'03"W	445.21
L12	N08°12'08"W	250.29
L13	N07°51'57"W	229.99
L14	N10°02'46"W	232.15
L15	N03°26'06"E	18.99
L16	N00°14'00"E	33.07
L17	N88°54'19"W	17.67
L18	N09°45'03"W	178.09
L19	N09°04'02"W	172.79
L20	N14°27'02"W	25.34
L21	N10°05'30"W	87.70

LINE TABLE		
LINE #	BEARING	LENGTH
L22	N10°06'52"W	83.12
L23	N09°38'01"W	37.28
L24	N09°43'47"W	193.95
L25	N09°33'28"W	41.70
L26	N01°00'49"E	38.88
L27	N08°11'28"W	308.71
L28	N09°35'32"W	333.02
L29	N09°28'51"W	56.86
L30	N09°24'43"W	386.21
L31	N08°57'32"W	3.12
L32	N09°17'49"W	240.05
L33	N10°42'55"W	87.31
L34	N09°12'52"W	244.22
L35	N09°12'37"W	98.88
L36	N35°30'28"E	23.35
L37	N77°08'02"E	49.18
L38	N80°26'24"E	453.36
L39	N68°44'14"E	174.05
L40	S53°07'32"E	4.70
L41	S62°53'16"E	3.97
L42	N89°11'14"E	170.56

LINE TABLE		
LINE #	BEARING	LENGTH
L43	N46°15'38"E	4.82
L44	N35°21'24"E	5.32
L45	S88°29'48"E	31.89
L47	S88°36'38"E	175.62
L48	S88°45'11"E	193.69
L49	S88°45'33"E	212.34
L50	S88°52'53"E	17.68
L51	S88°05'52"E	389.90
L52	S88°33'15"E	411.64
L54	N80°17'35"E	428.92
L55	N80°18'09"E	401.04
L56	N80°17'46"E	395.16
L57	N80°40'34"E	104.57
L58	N80°19'32"E	228.07
L59	N39°02'19"E	4.39
L60	N09°30'41"W	60.25
L61	N42°09'08"E	3.78
L62	N80°24'55"E	190.16
L63	N81°06'31"E	47.87



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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_Geometry Plan

Title:

Geometry Plan

Dwg No.

C-2

Of : 69

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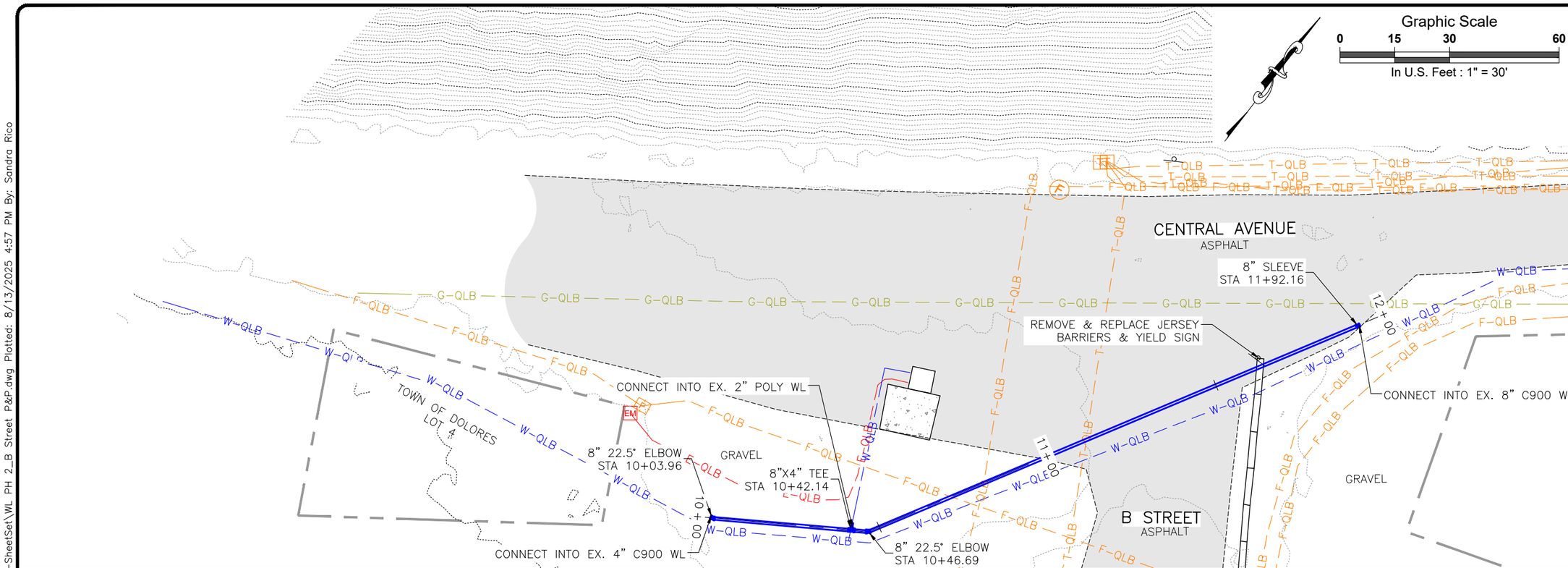

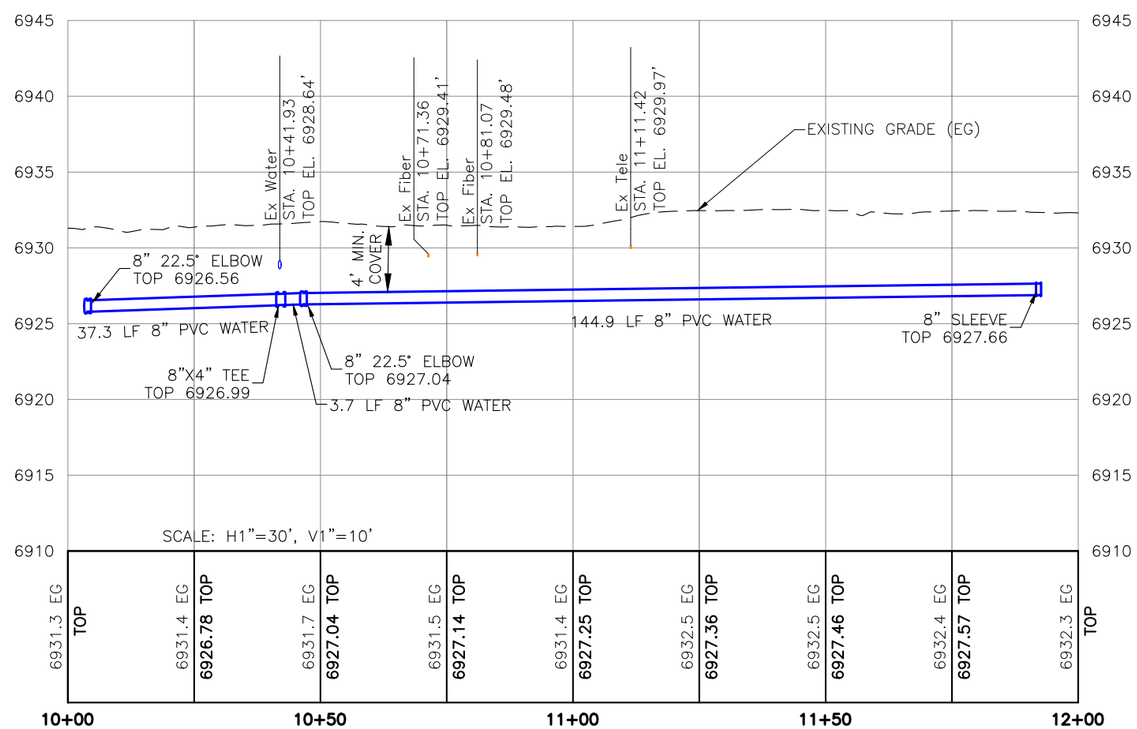

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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_B Street P&P

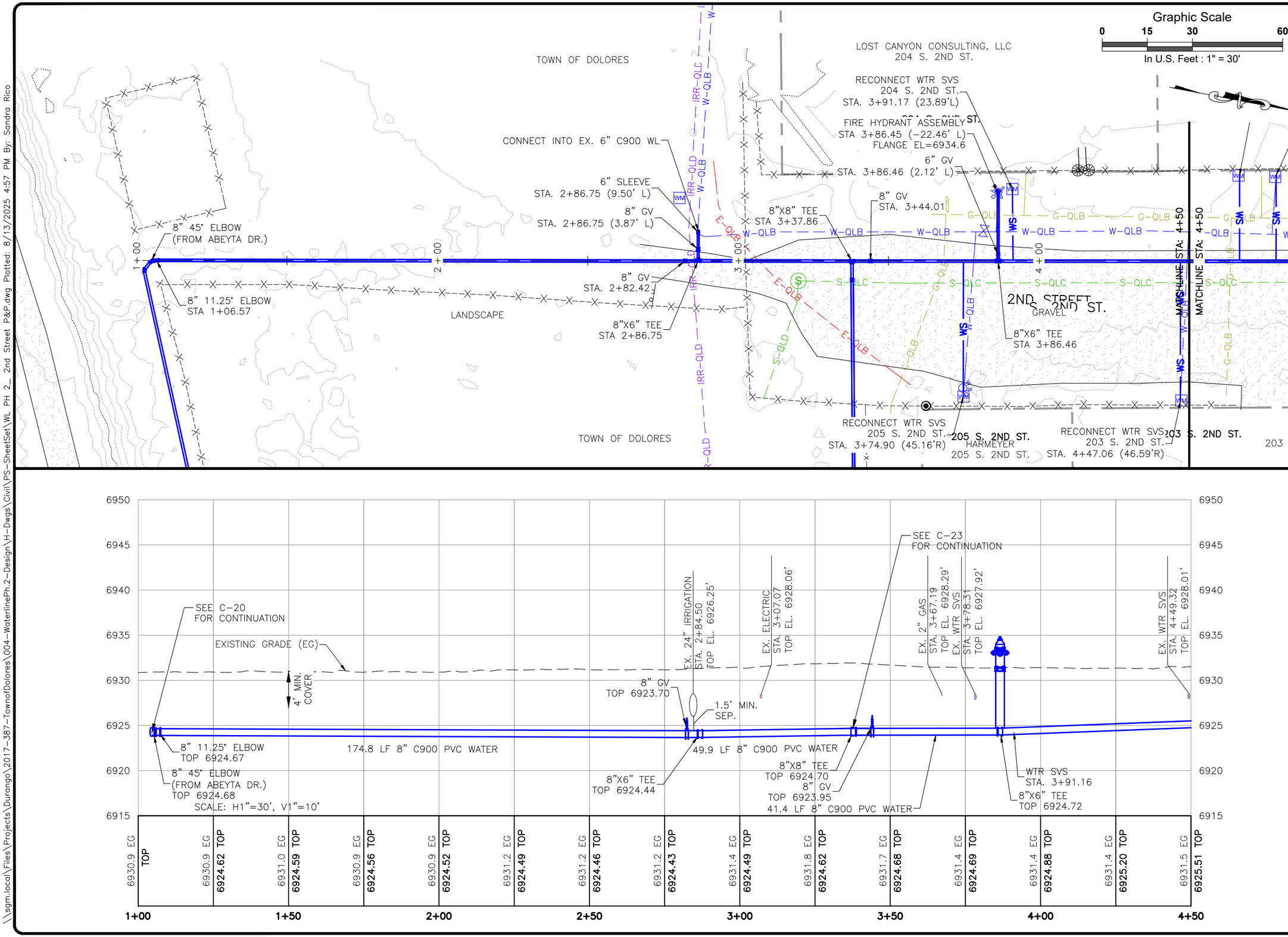
Title:

B St. Waterline P&P Sta. 10+00 - Sta. 12+00

Dwg No.

C-3

Of : 69



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Town of Dolores
Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_ 2nd Street P&P

Title:

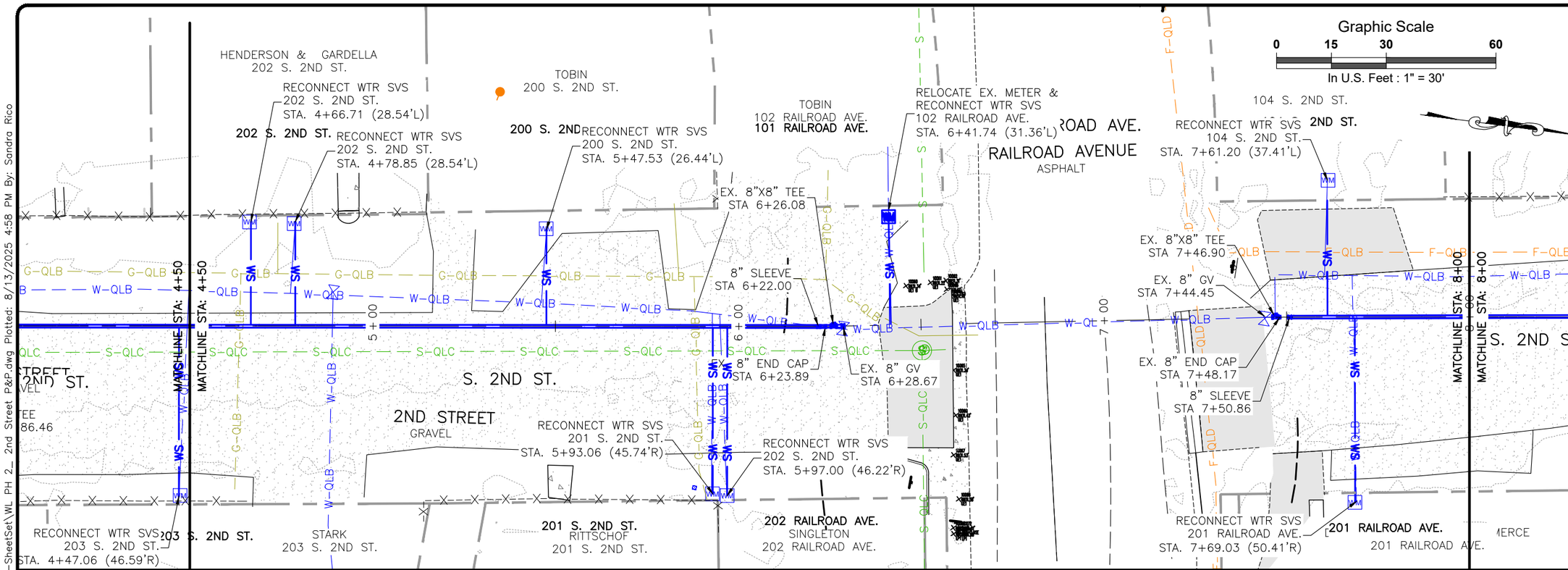
2nd St. Waterline P&P
Sta. 1+00 - Sta. 4+75

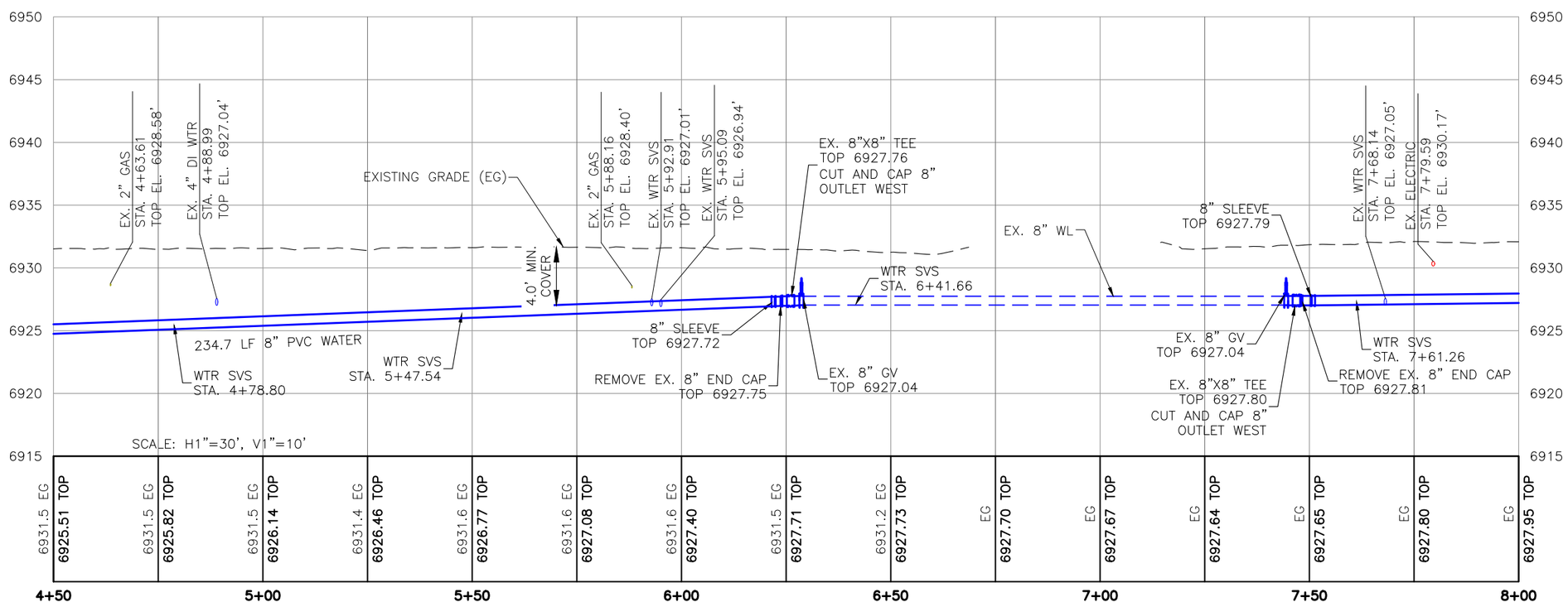
Dwg No.

C-4

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_ 2nd Street P&P.dwg Plotted: 8/13/2025 4:57 PM By: Sandra Rico





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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_ 2nd Street P&P

Title:

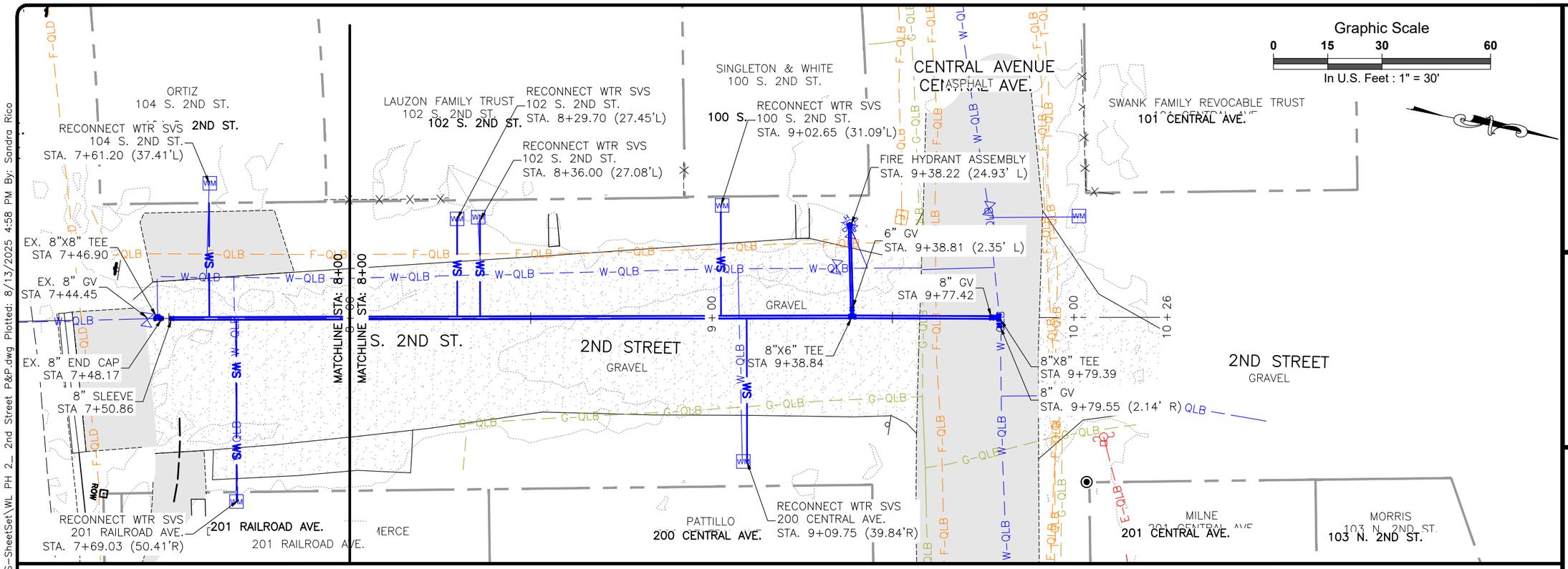
2nd St. Waterline P&P
Sta. 4+75 - Sta. 8+25

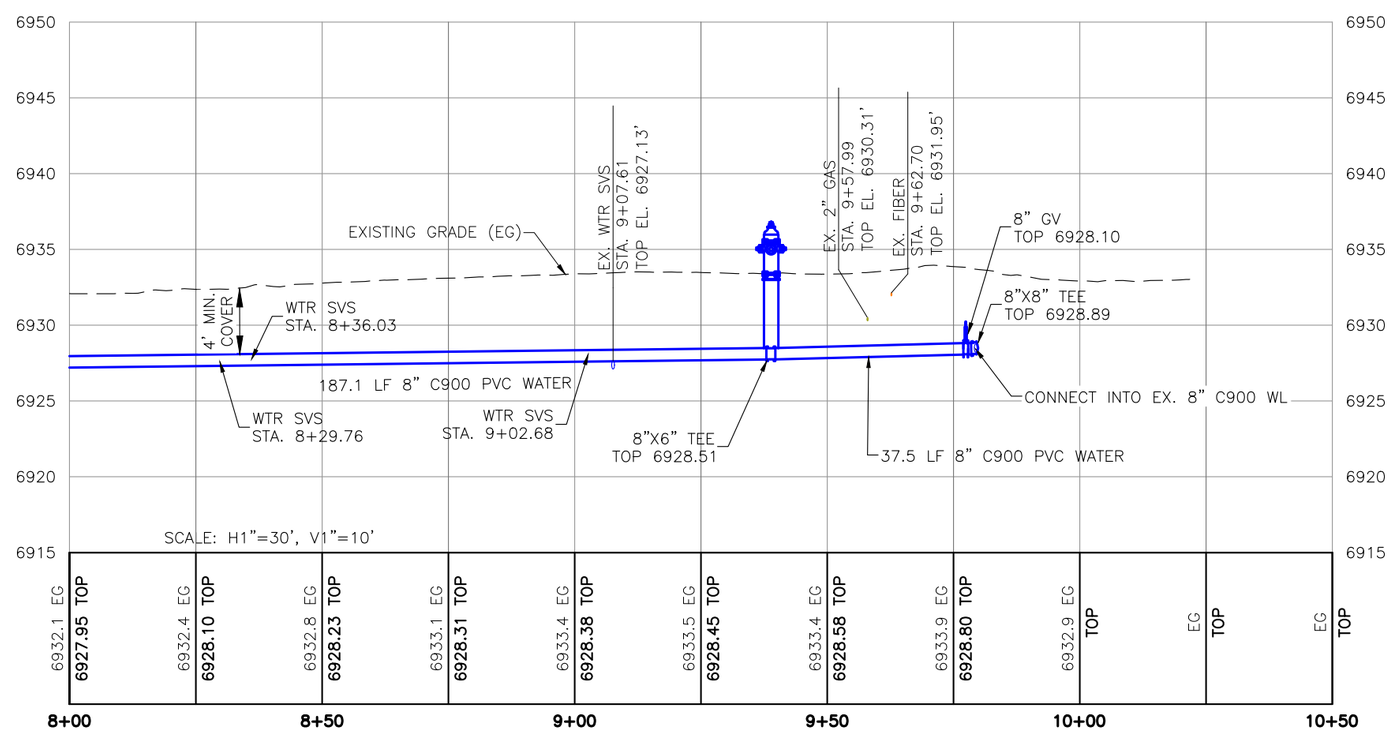
Dwg No.

C-5

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_ 2nd Street P&P.dwg Plotted: 8/13/2025 4:58 PM By: Sandra Rico





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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_ 2nd Street P&P

Title:

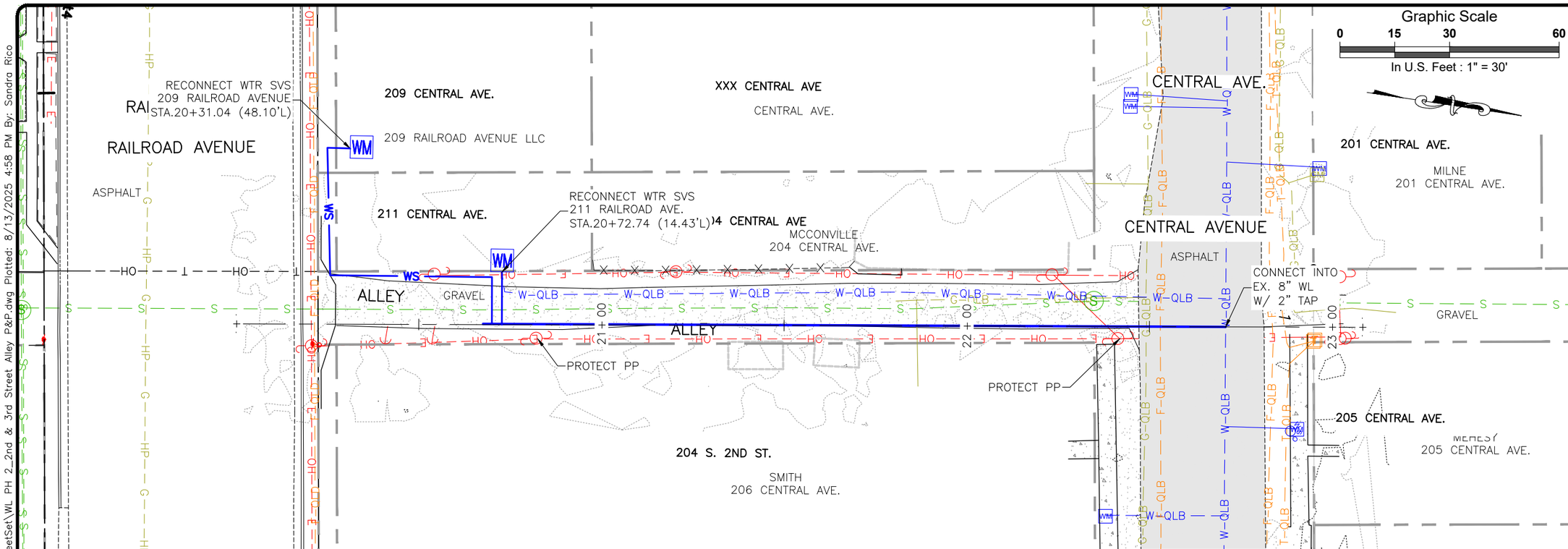
2nd St. Waterline P&P
Sta. 8+25 - Sta. 10+50

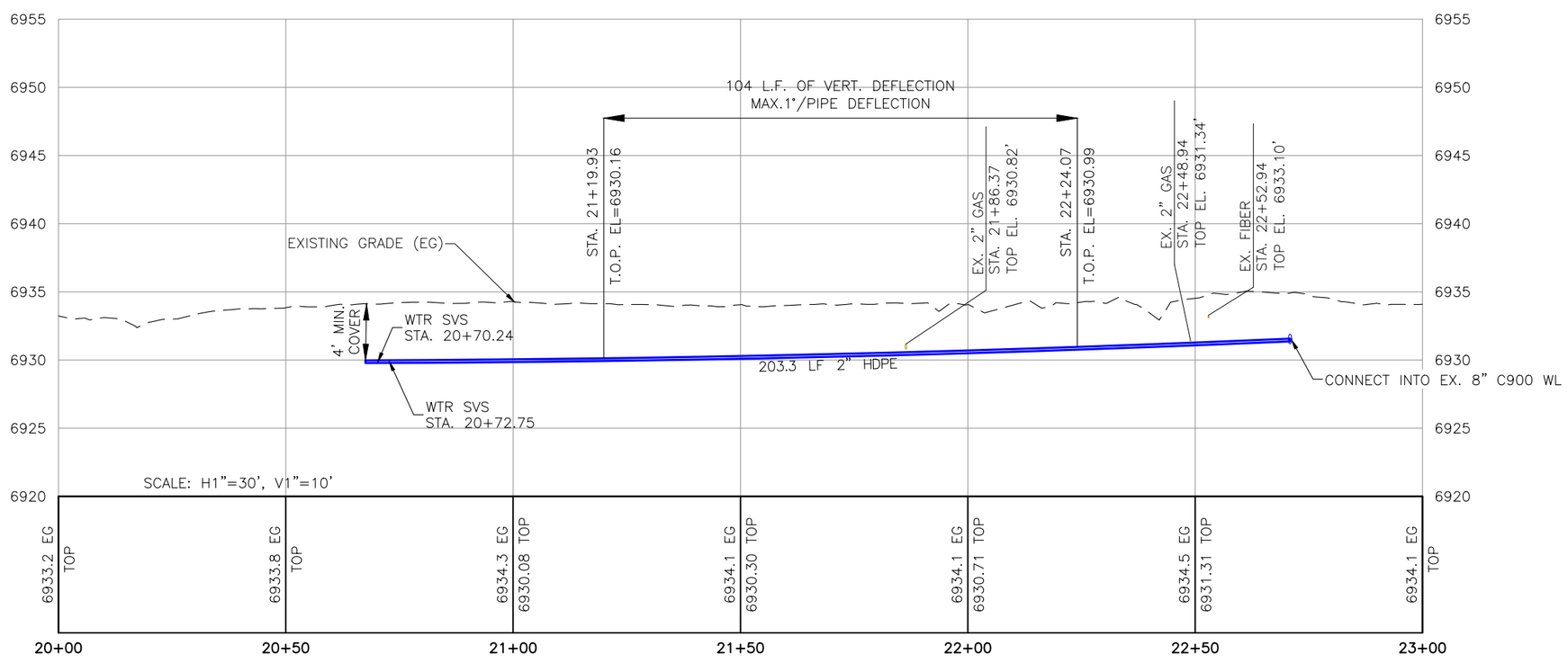
Dwg No.

C-6

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_ 2nd Street P&P.dwg Plotted: 8/13/2025 4:58 PM By: Sandra Rico





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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

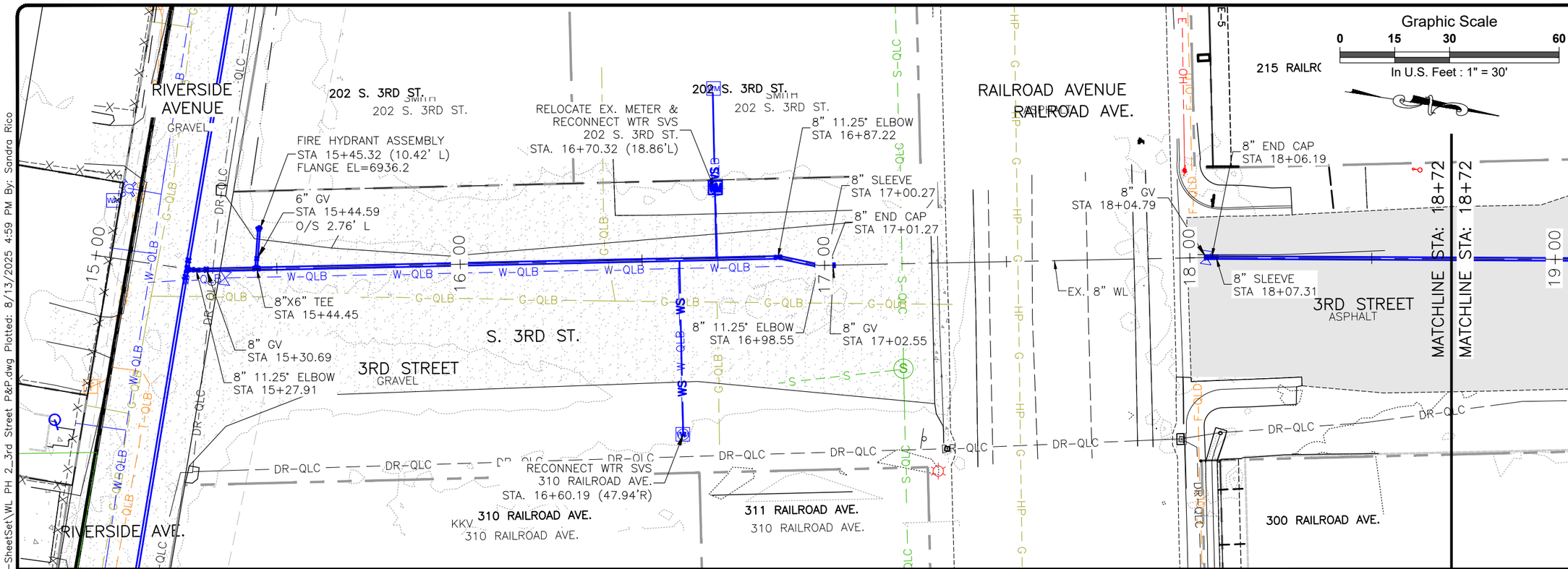
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_2nd & 3rd Street Alley P&P

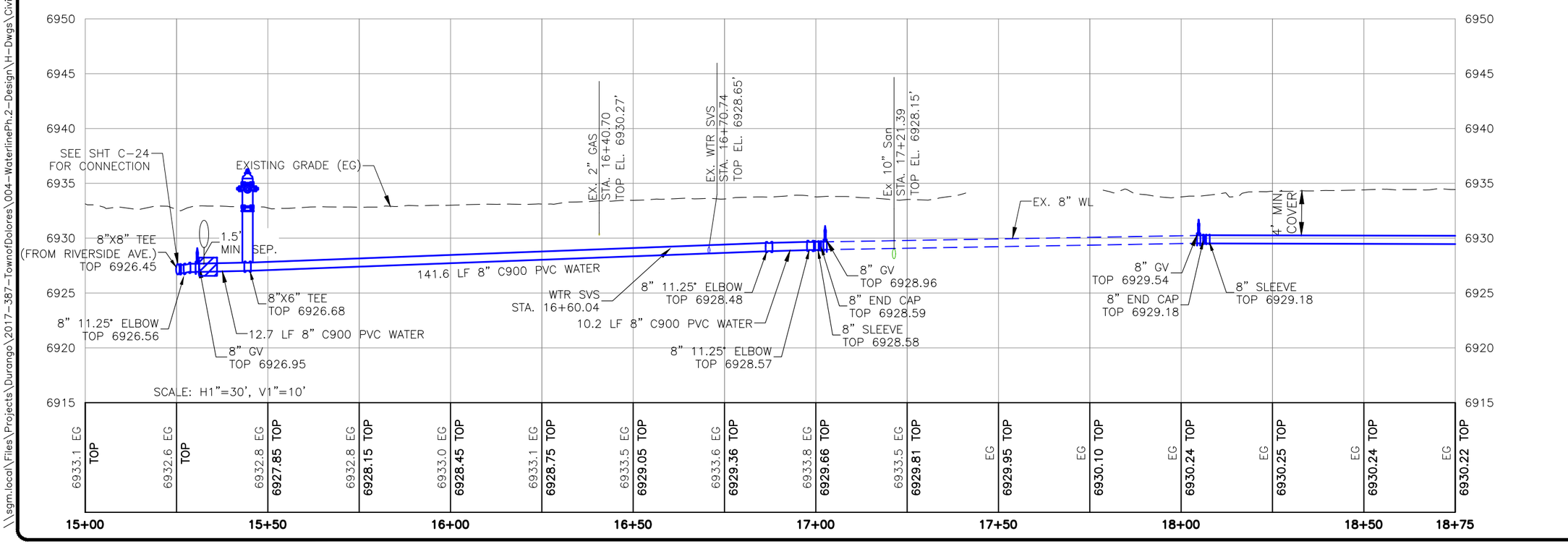
Title:
2nd & 3rd St. Alley
Waterline P&P Sta.
20+00 - Sta. 23+00

Dwg No.
C-7

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_2nd & 3rd Street Alley P&P.dwg Plotted: 8/13/2025 4:58 PM By: Sandra Rico





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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_3rd Street P&P

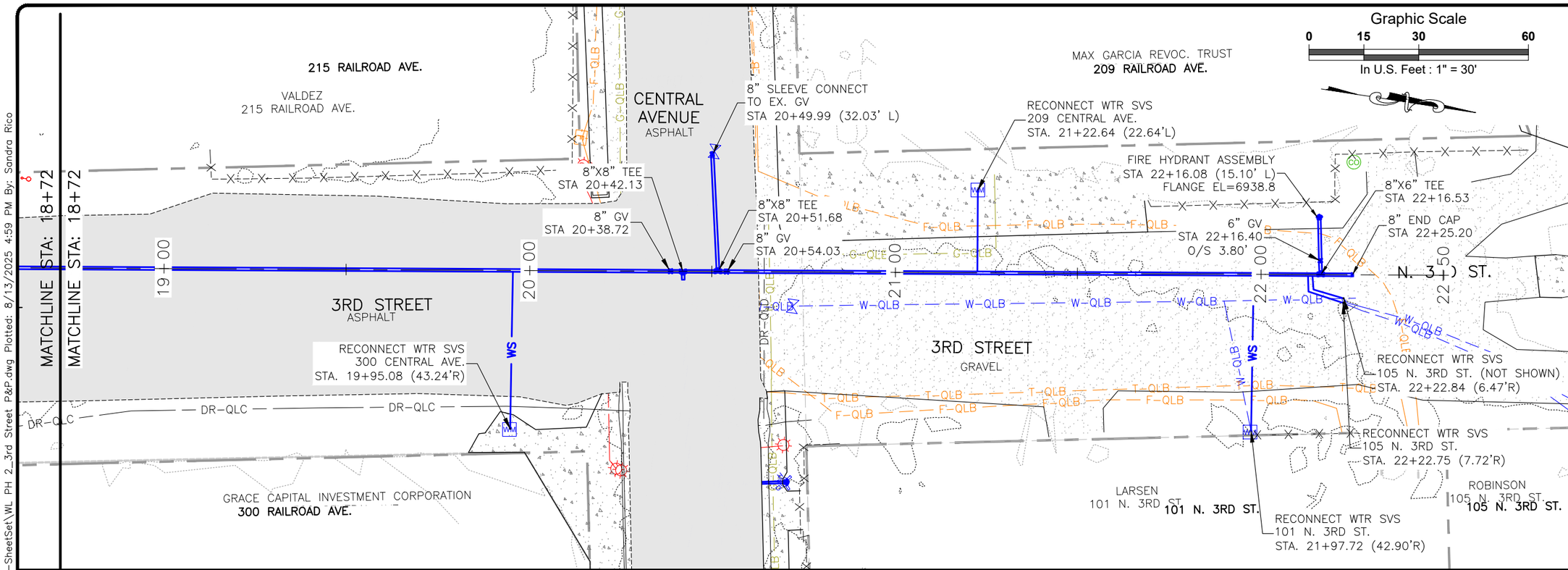
Title:

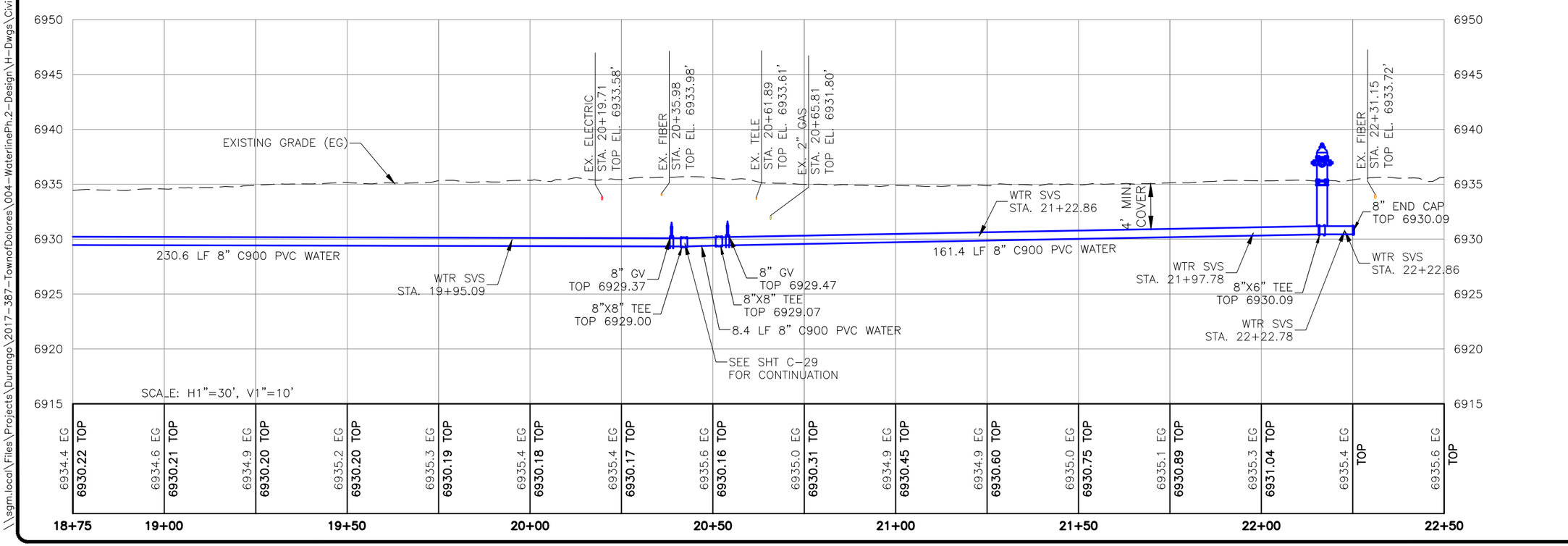
3rd St. Waterline P&P
Sta. 15+00 - Sta. 18+75

Dwg No.

C-8

Of : 69





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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_3rd Street P&P

Title:

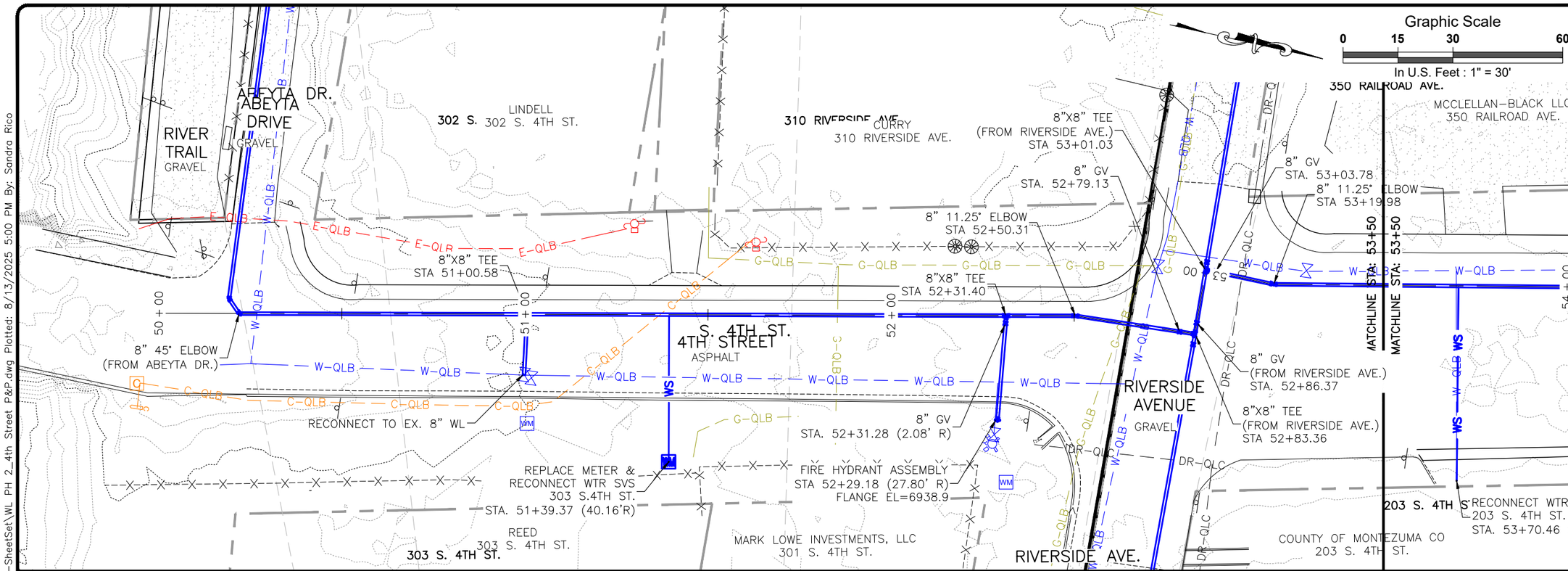
3rd St. Waterline P&P
Sta. 18+75 - Sta. 22+50

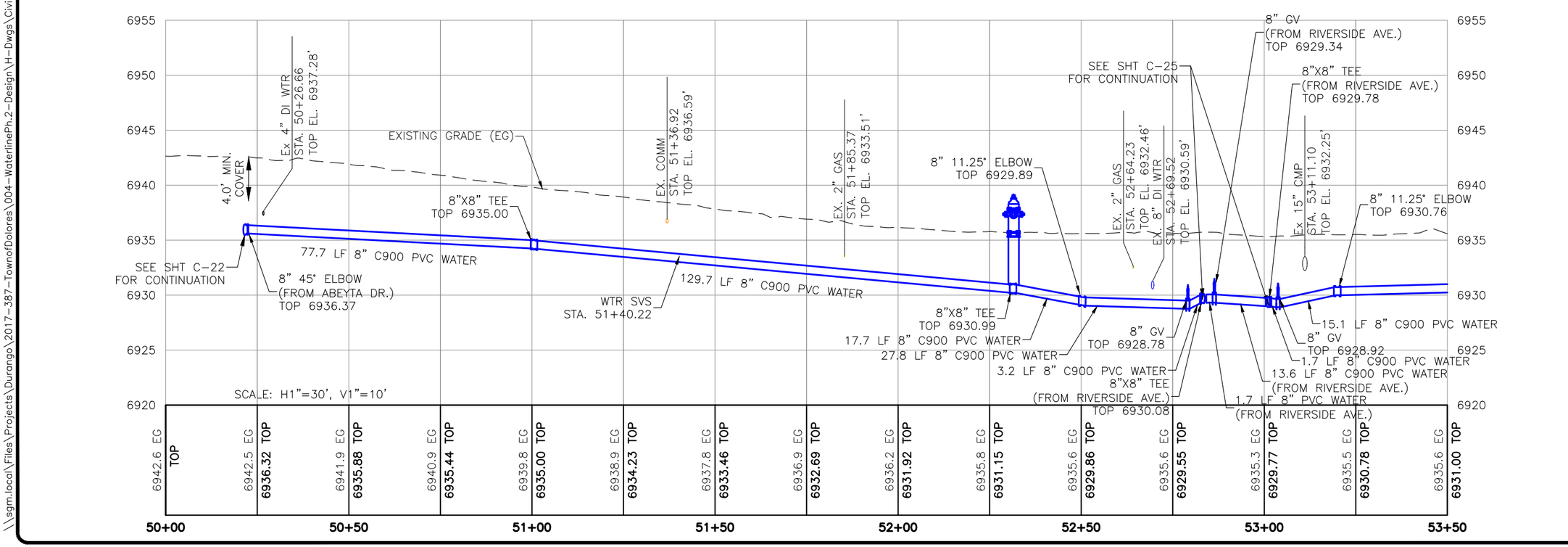
Dwg No.

C-9

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_3rd Street P&P.dwg Plotted: 8/13/2025 4:59 PM By: Sandra Rico





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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_4th Street P&P

Title:

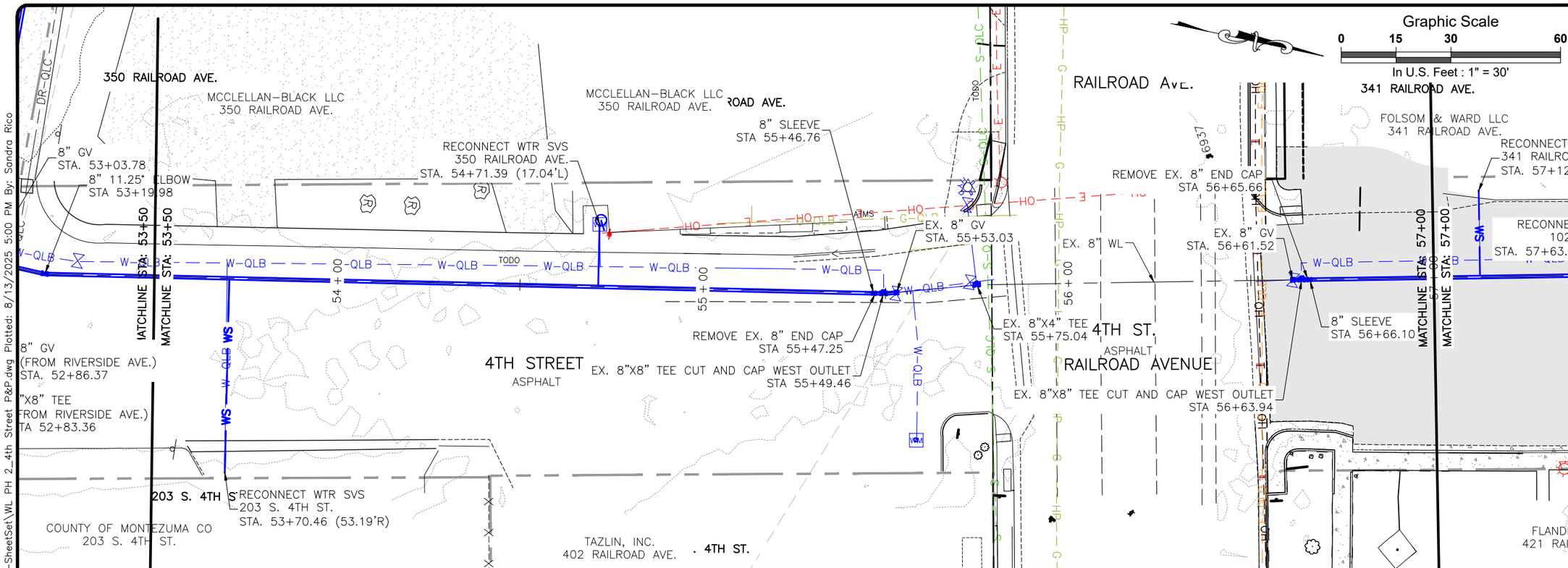
4th St. Waterline P&P
Sta. 50+00 - Sta. 54+00

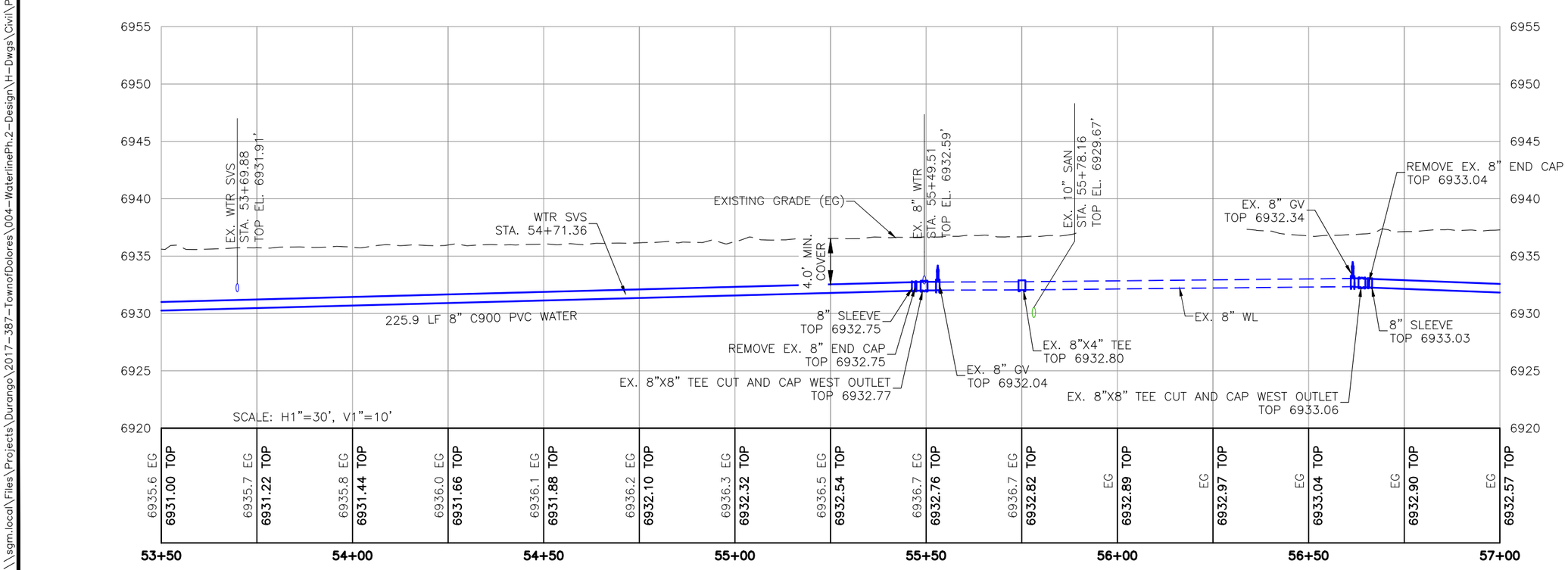
Dwg No.

C-10

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_4th Street P&P.dwg Plotted: 8/13/2025 5:00 PM By: Sandra Rico





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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_4th Street P&P

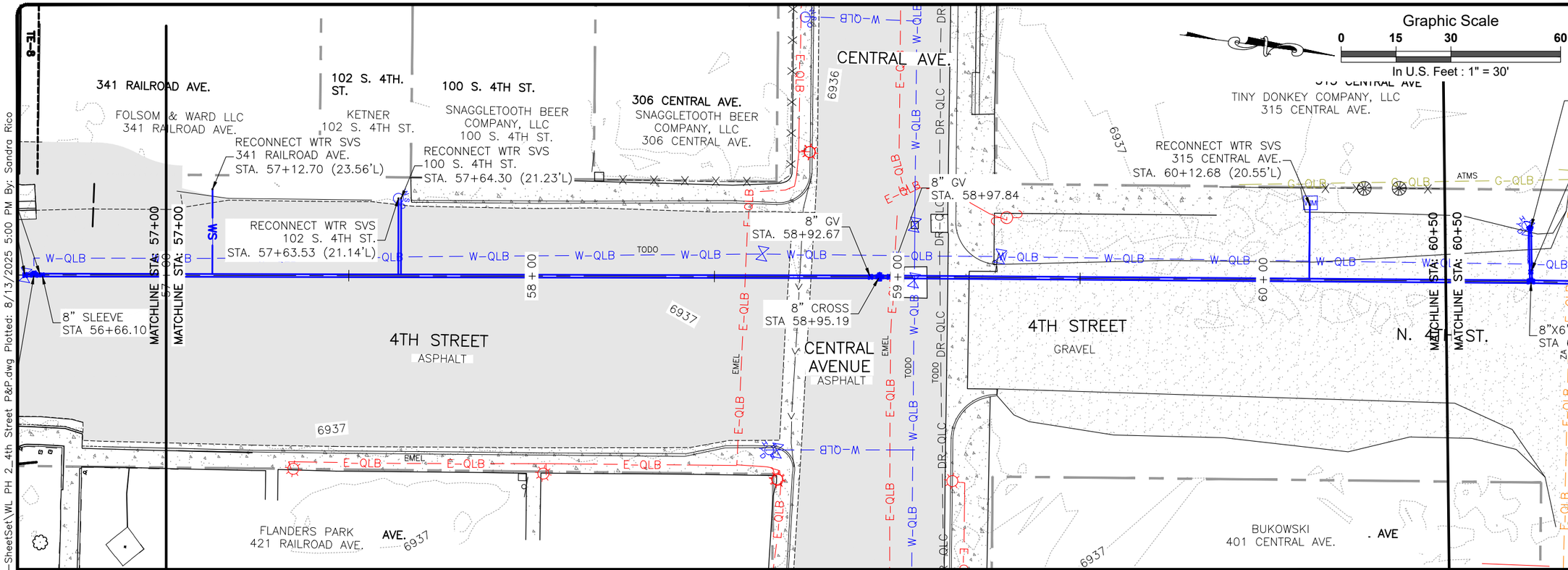
Title:

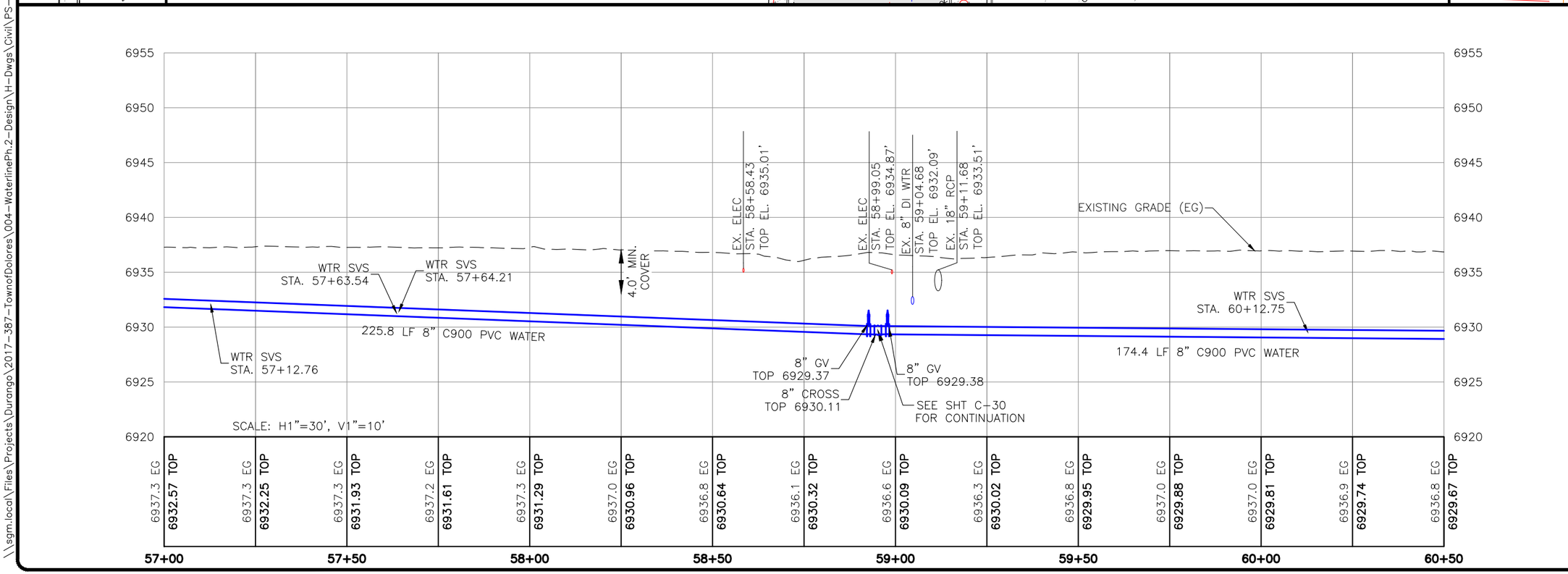
4th St. Waterline P&P
Sta. 54+00 - Sta. 58+00

Dwg No.

C-11

Of : 69





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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_4th Street P&P

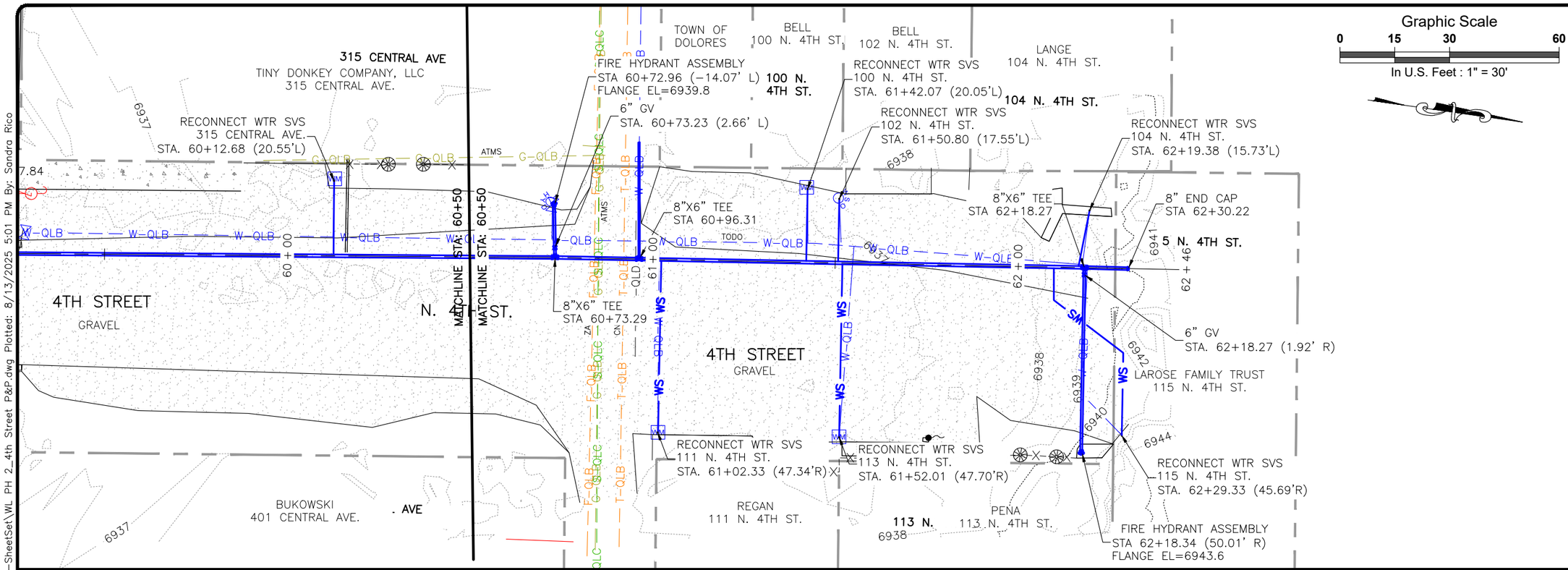
Title:

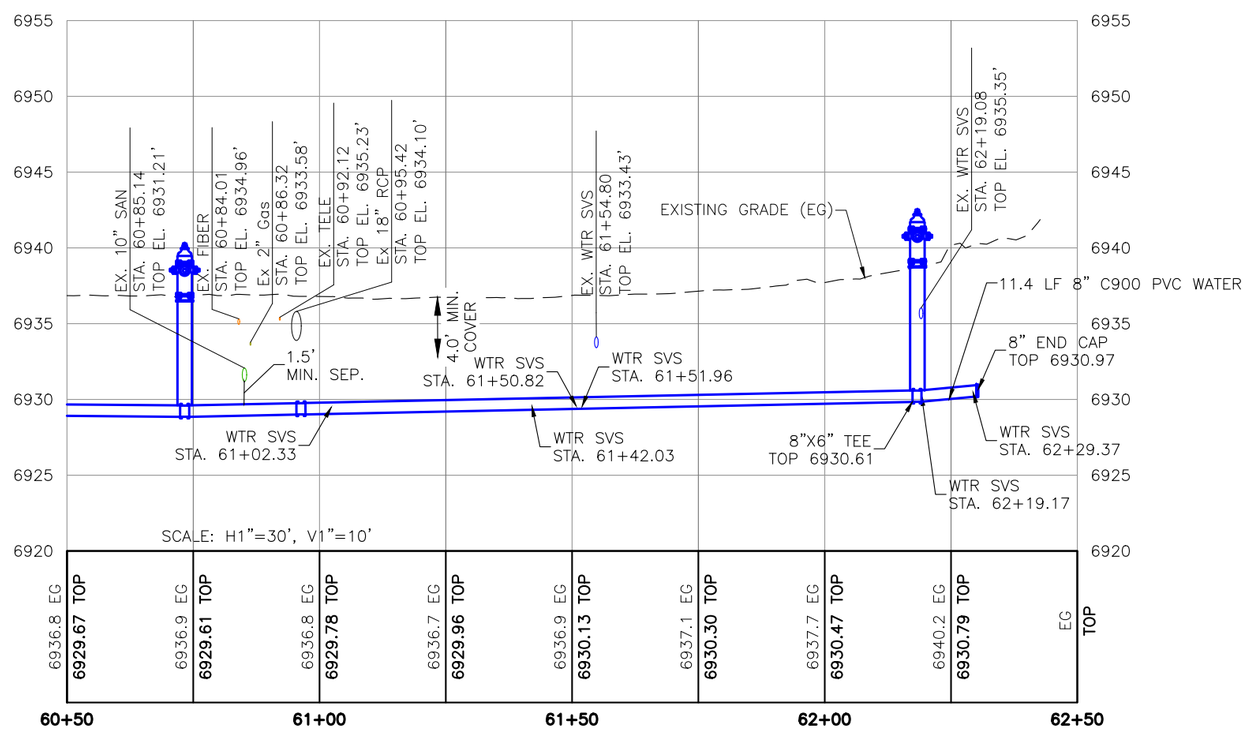
4th St. Waterline P&P
Sta. 58+00 - Sta. 61+75

Dwg No.

C-12

Of : 69





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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_4th Street P&P

Title:

4th St. Waterline P&P
Sta. 61-75 - Sta. 62+50

Dwg No.

C-13

Of : 69

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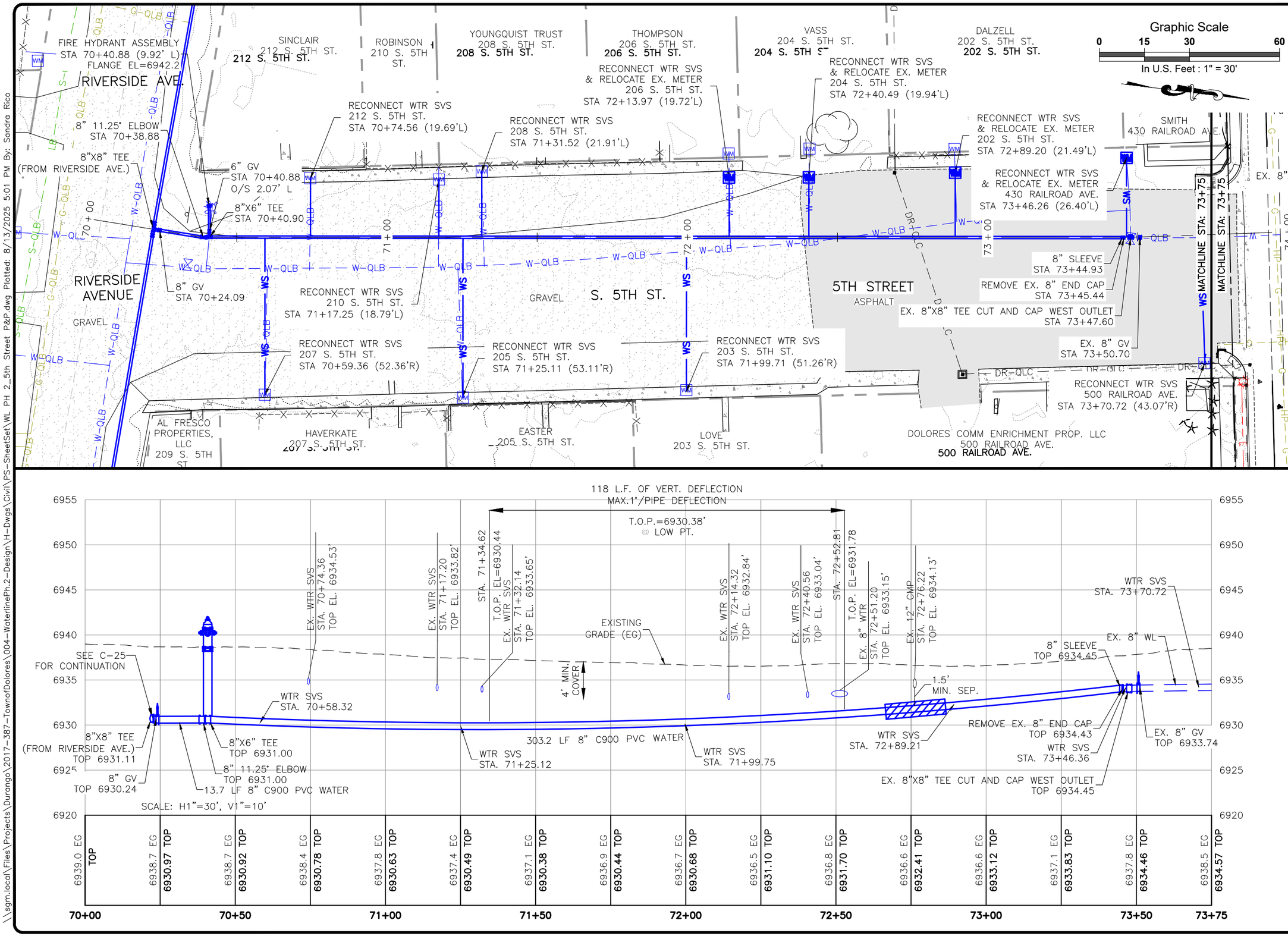

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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_5th Street P&P

Title:

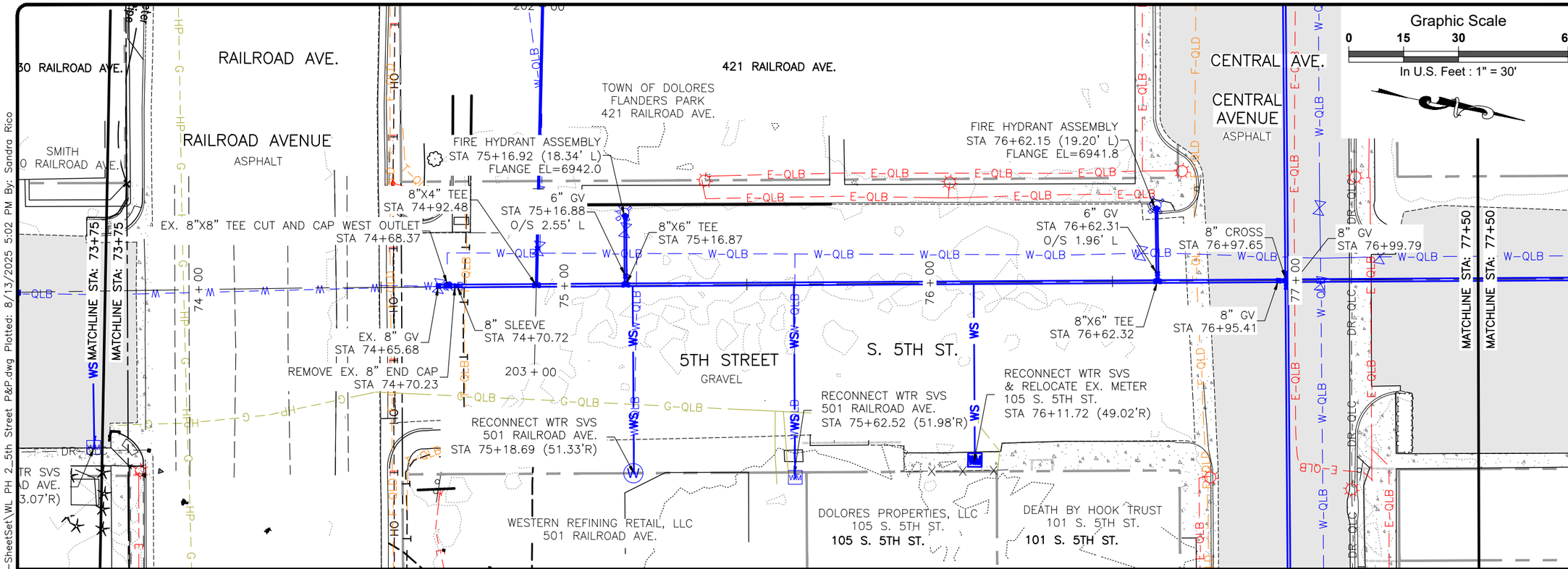
5th St. Waterline P&P
Sta. 70+00 - Sta. 73+75

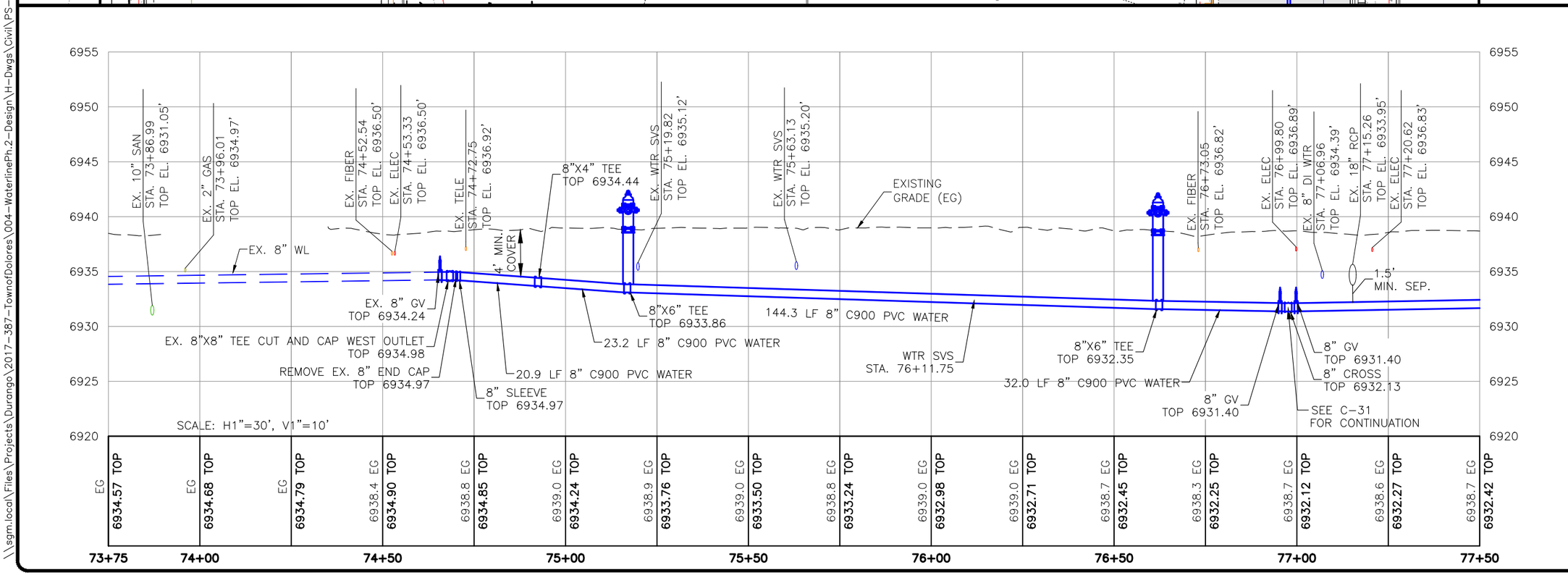
Dwg No.

C-14

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_5th Street P&P.dwg Plotted: 8/13/2025 5:01 PM By: Sandra Rico





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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_5th Street P&P

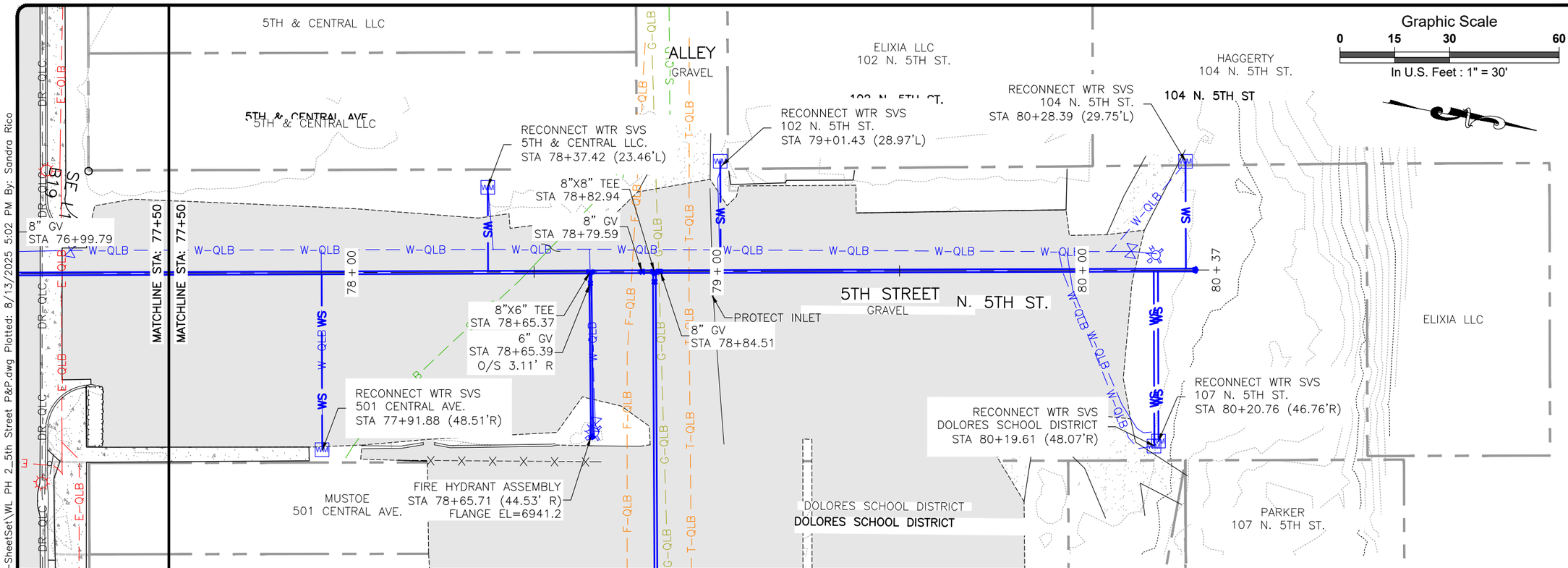
Title:

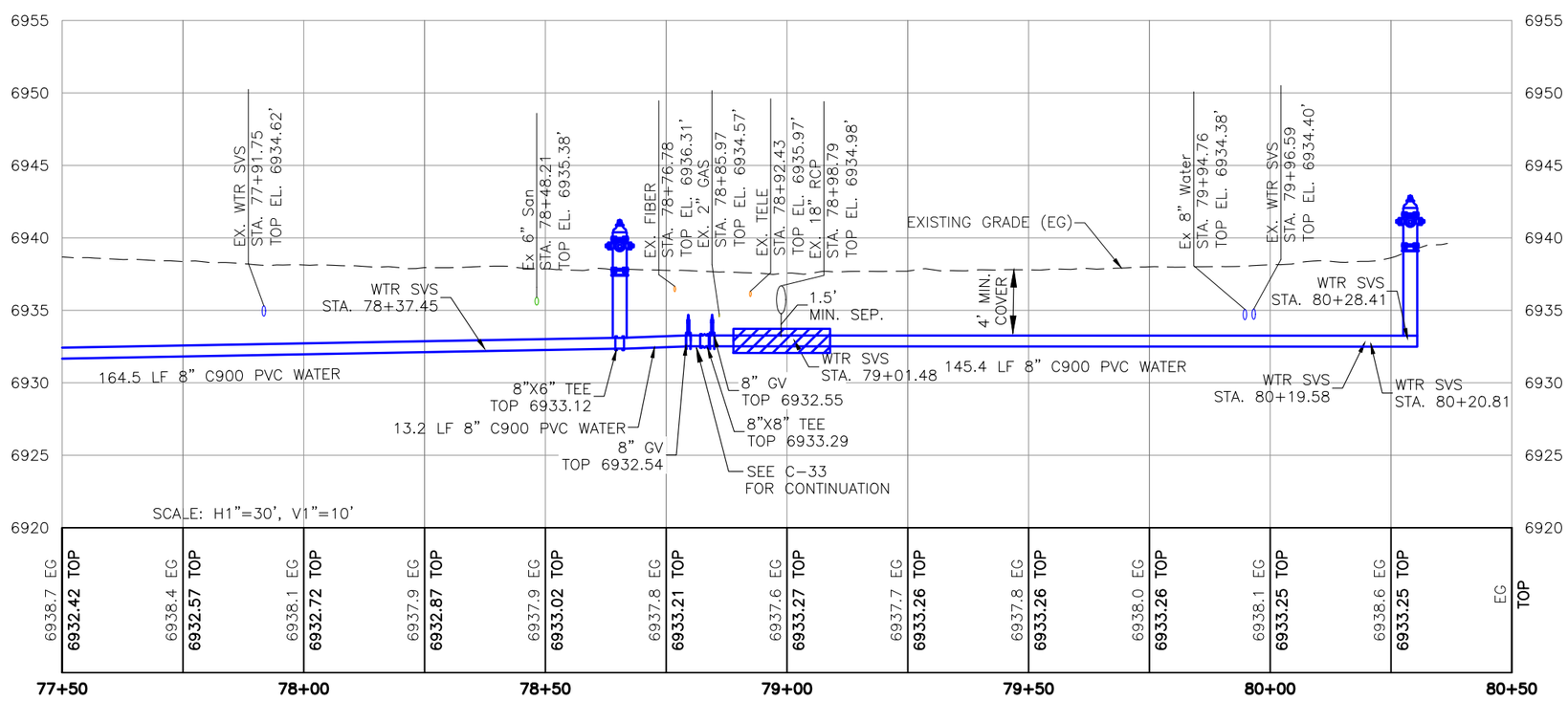
5th St. Waterline P&P
Sta. 73+75 - Sta. 77+50

Dwg No.

C-15

Of : 69





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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_5th Street P&P

Title:

5th St. Waterline P&P
Sta. 77+50 - Sta. 80+50

Dwg No.

C-16

Of : 69

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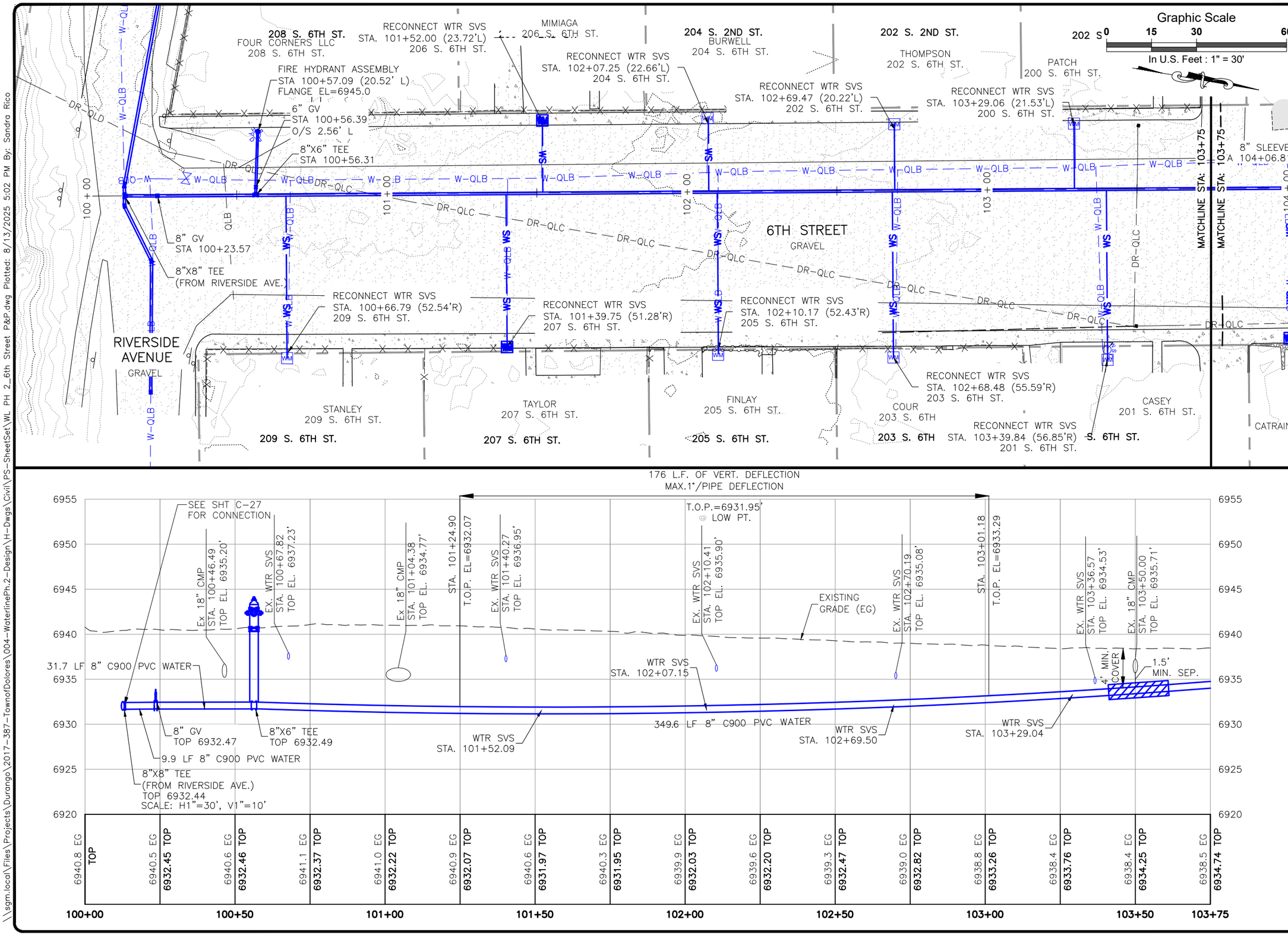

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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_6th Street P&P

Title:
6th St. Waterline P&P
Sta. 100+00 - Sta. 103+75

Dwg No.
C-17

Of : 69

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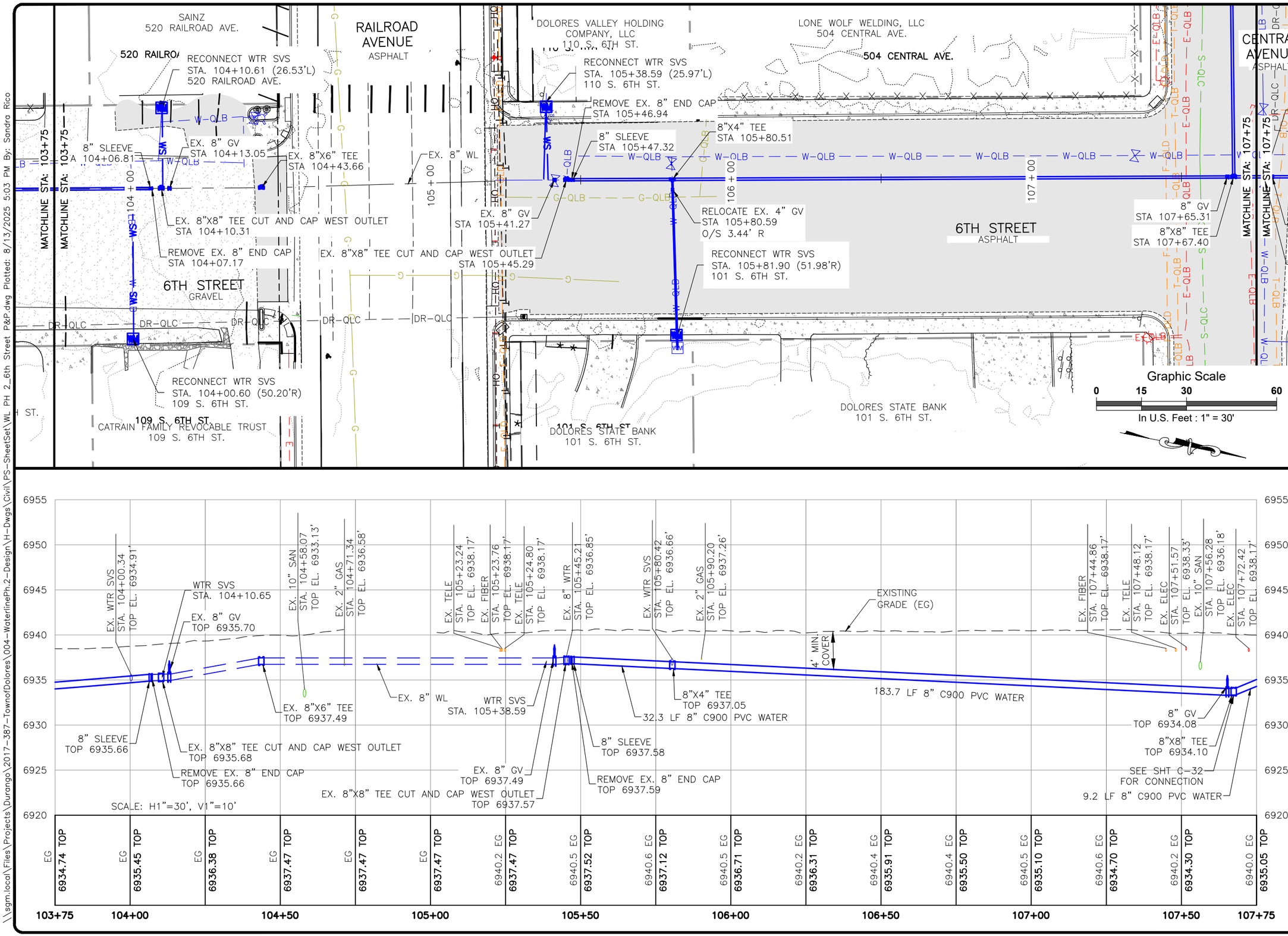

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Waterline Ph. 2 (2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

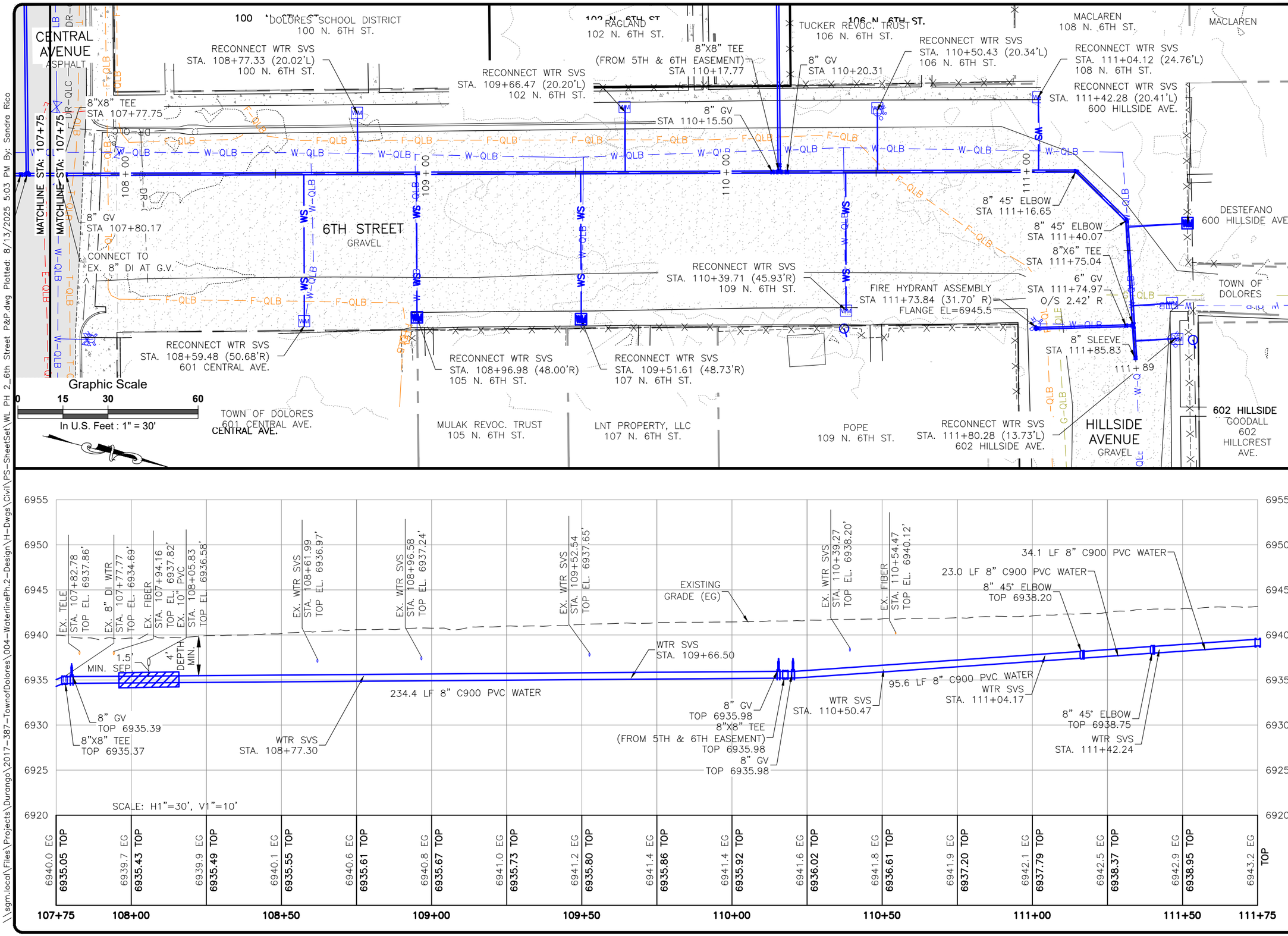
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_6th Street P&P

Title: 6th St. Waterline P&P Sta. 103+75 - Sta. 107+75

Dwg No. C-18

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_6th Street P&P.dwg Plotted: 8/13/2025 5:03 PM By: Sandra Rico



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Waterline Ph. 2 (2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

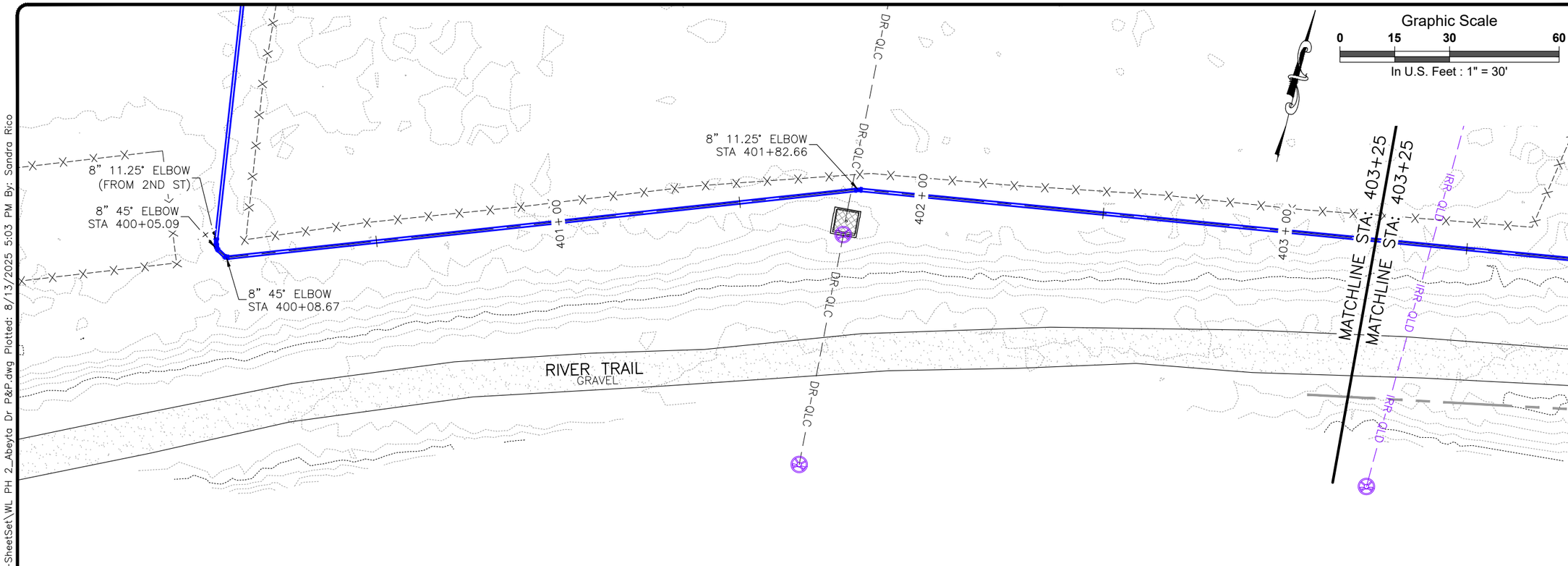
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_6th Street P&P

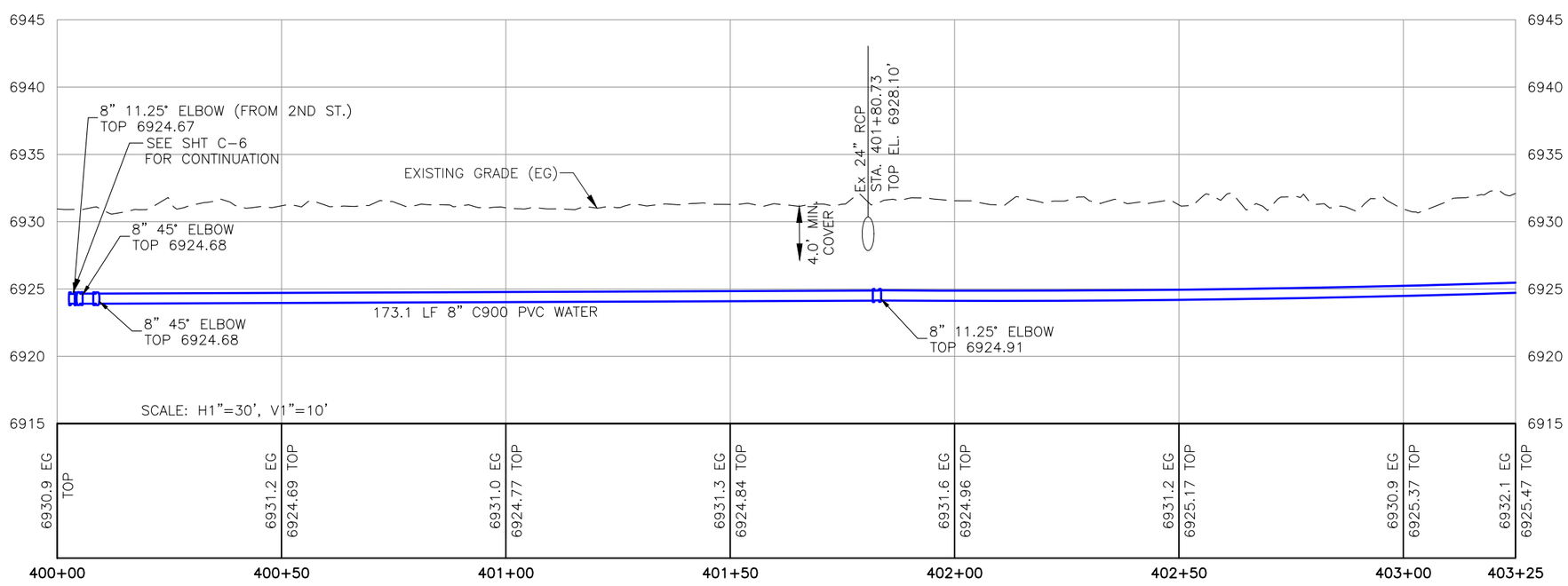
Title:
6th St. Waterline P&P
Sta. 107+75 - Sta. 111+75

Dwg No.
C-19

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_6th Street P&P.dwg Plotted: 8/13/2025 5:03 PM By: Sandra Rico





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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

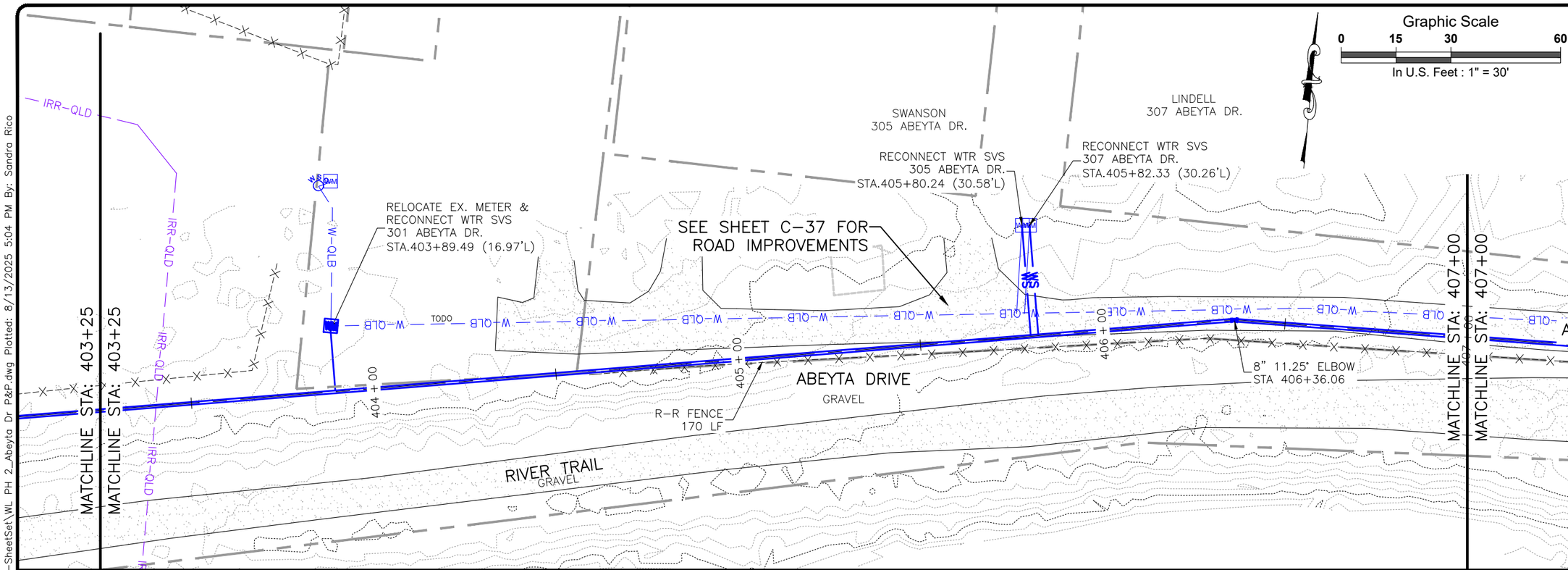
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_Abeyta Dr P&P

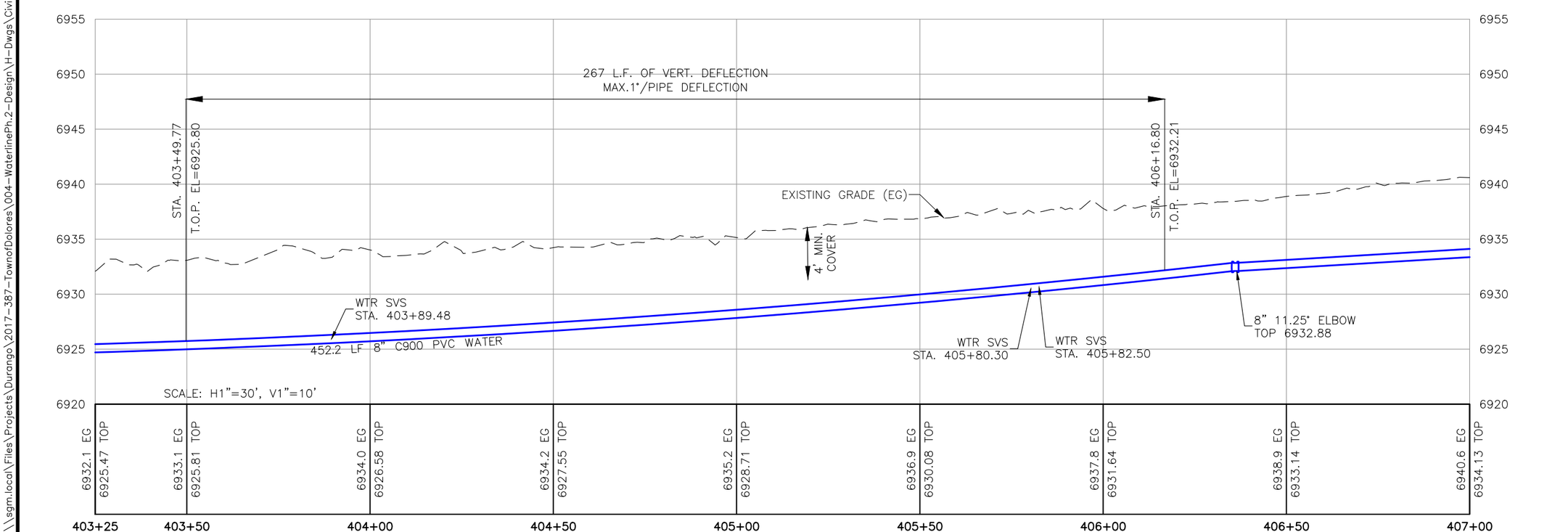
Title:
Abeyta Dr. Waterline
P&P Sta. 400+00 - Sta. 403+50

Dwg No.
C-20

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_Abeyta Dr P&P.dwg Plotted: 8/13/2025 5:03 PM By: Sandra Rico





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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

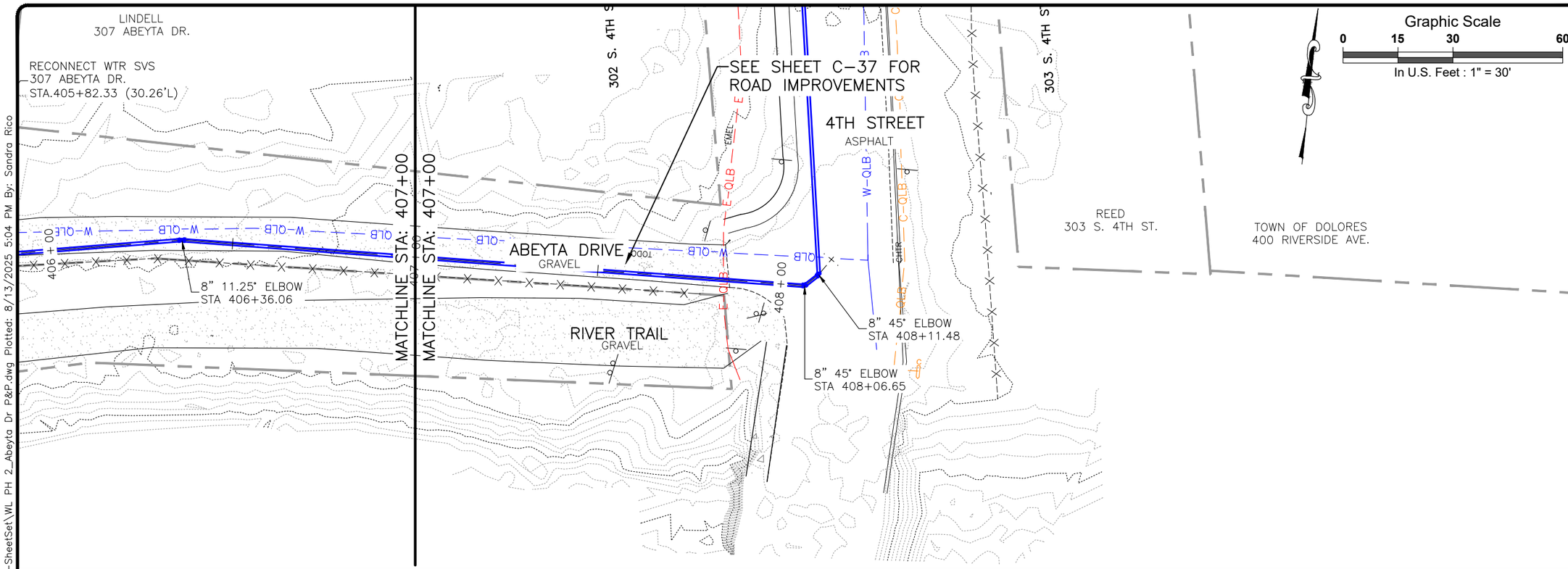
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_Abeyta Dr P&P

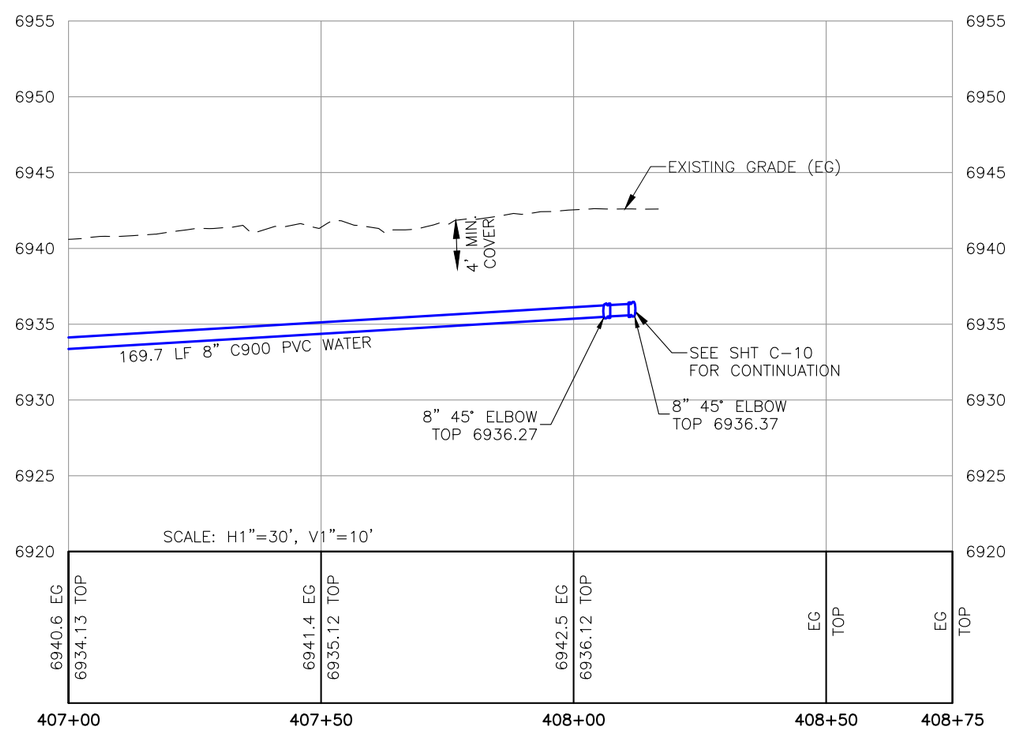
Title:
Abeyta Dr. Waterline P&P Sta. 403+50 - Sta. 407+25

Dwg No.
C-21

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_Abeyta Dr P&P.dwg Plotted: 8/13/2025 5:04 PM By: Sandra Rico





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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

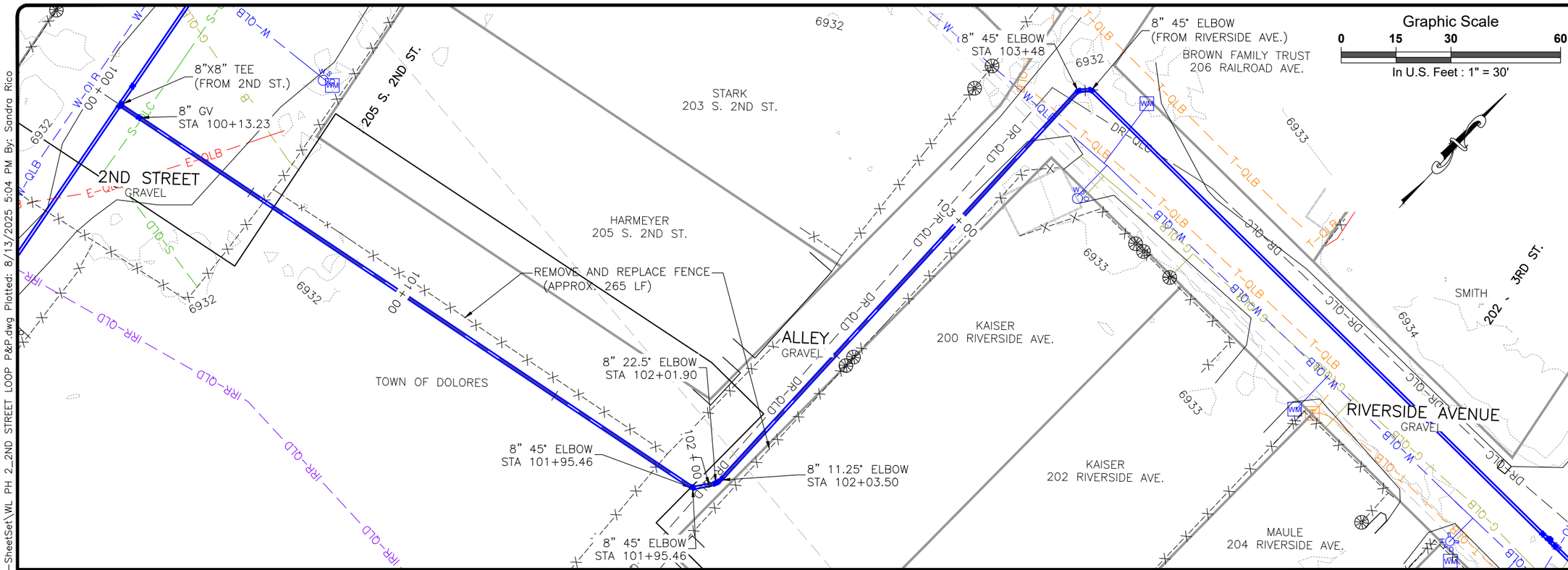
Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

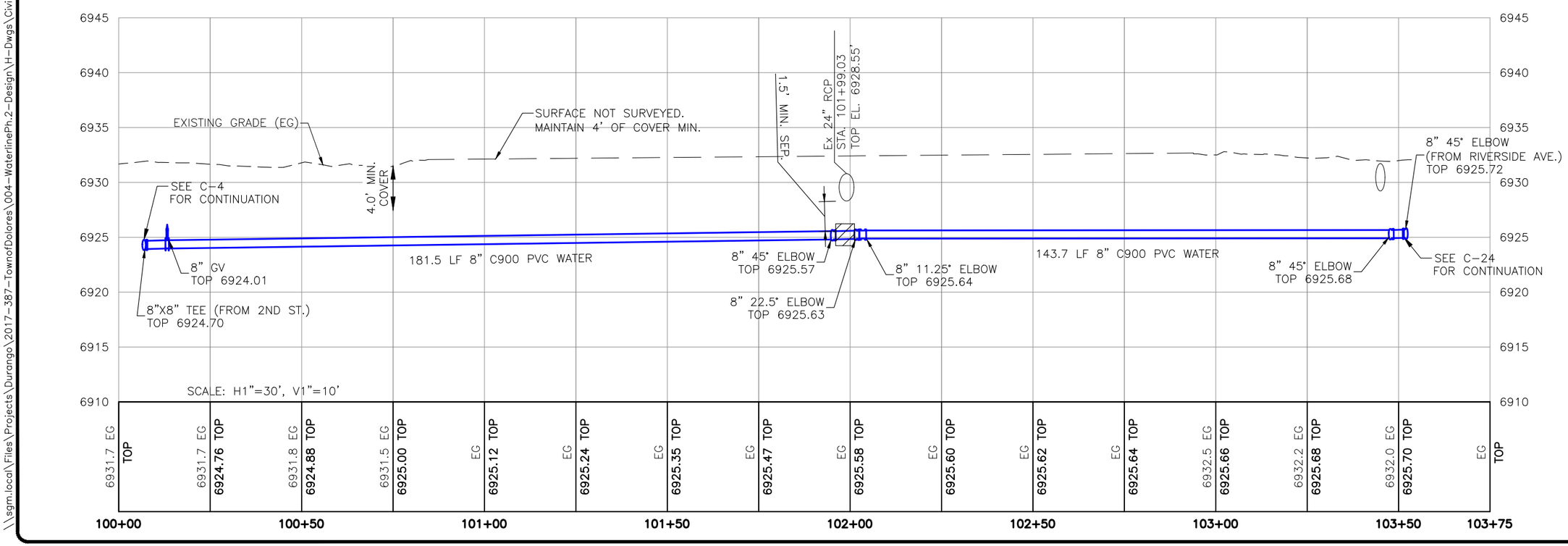
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_Abeyta Dr P&P

Title:
Abeyta Dr. Waterline P&P Sta. 407+25 - Sta. 408+75

Dwg No.
C-22

Of : 69





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Town of Dolores

Waterline Ph. 2 (2nd to 6th Streets)

#	Revision	Date	By:
1			

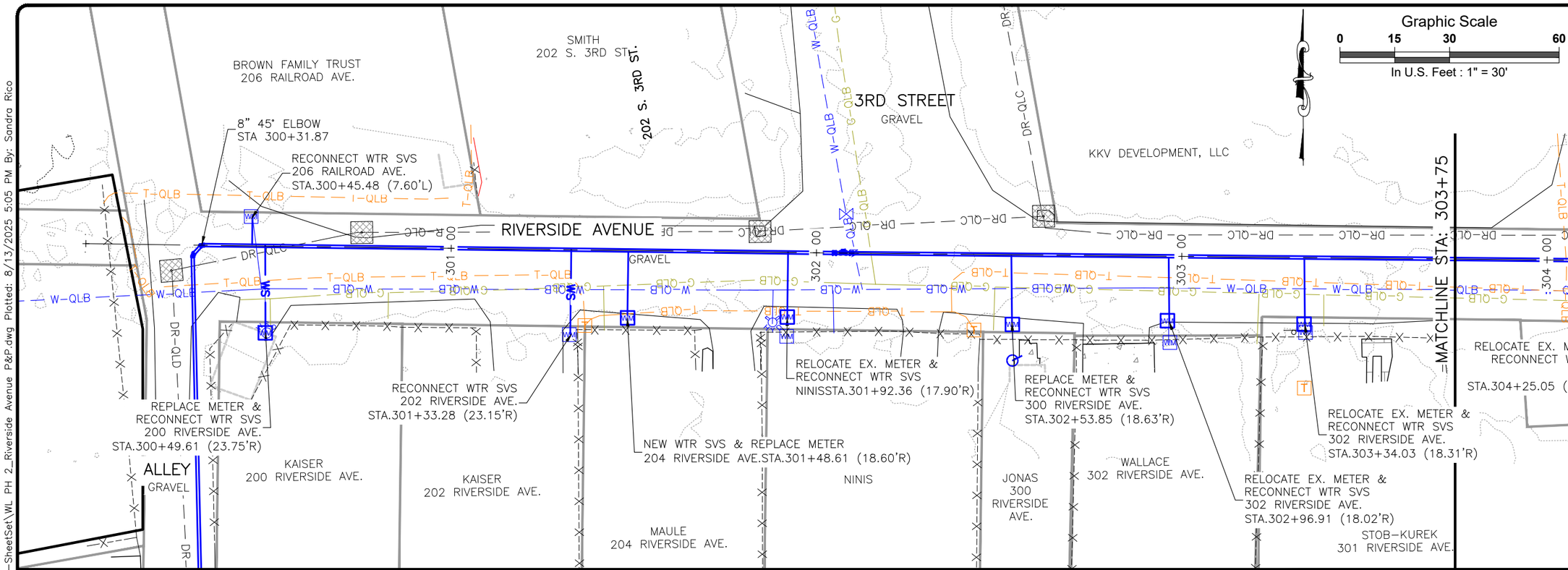
Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

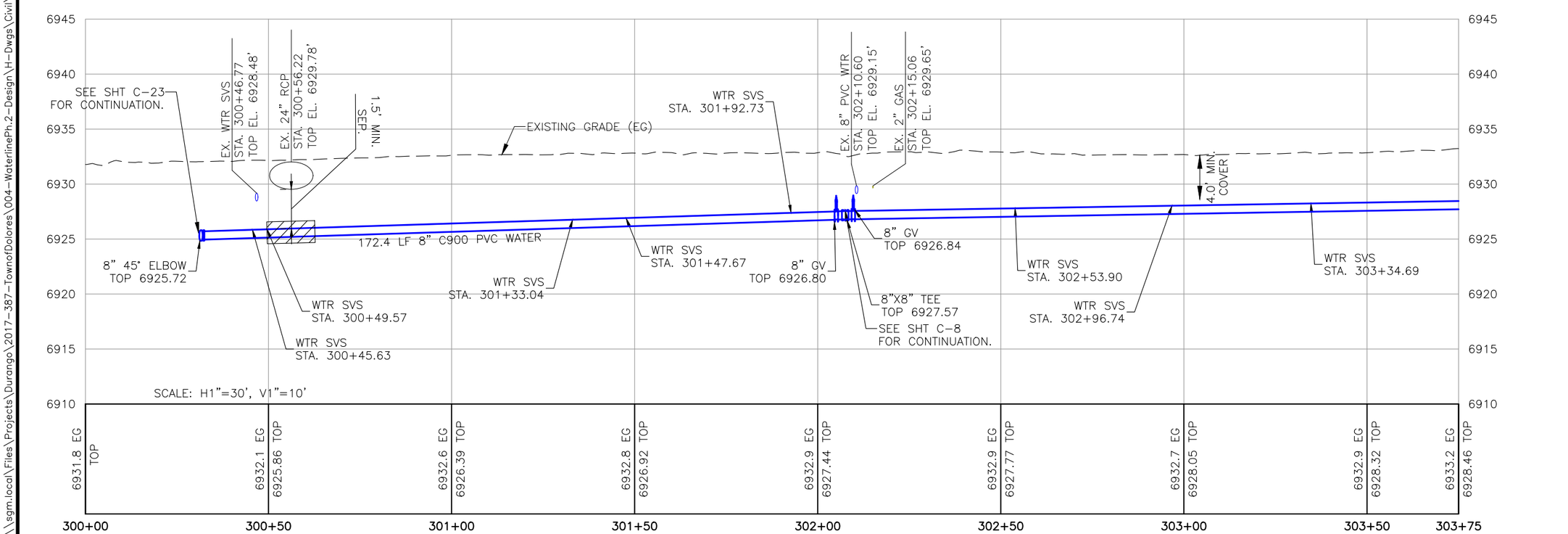
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_2ND STREET LOOP P&P

Title:
2nd Street Loop P&P
Sta. 100+00.00 - Sta. 103+75

Dwg No.
C-23

Of : 69





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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_Riverside Avenue P&P

Title:
Riverside Ave. Waterline P&P Sta. 300+00 - Sta. 303+75

Dwg No.
C-24

Of : 69

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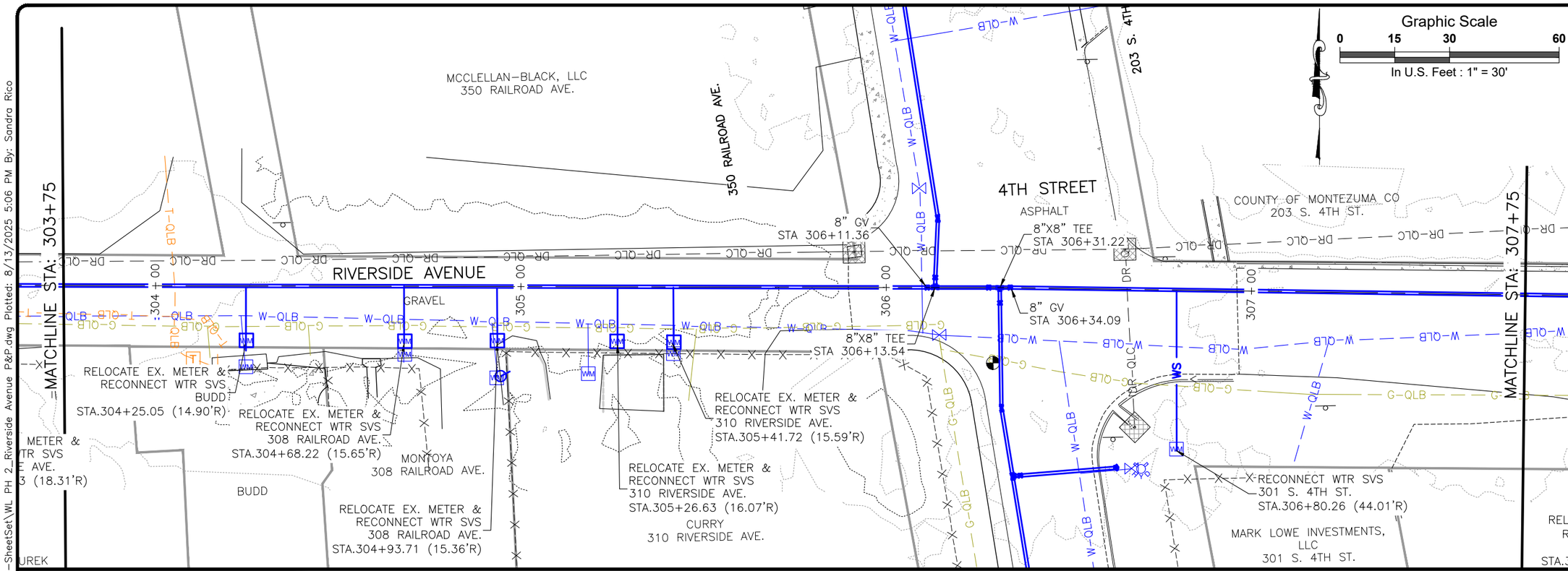

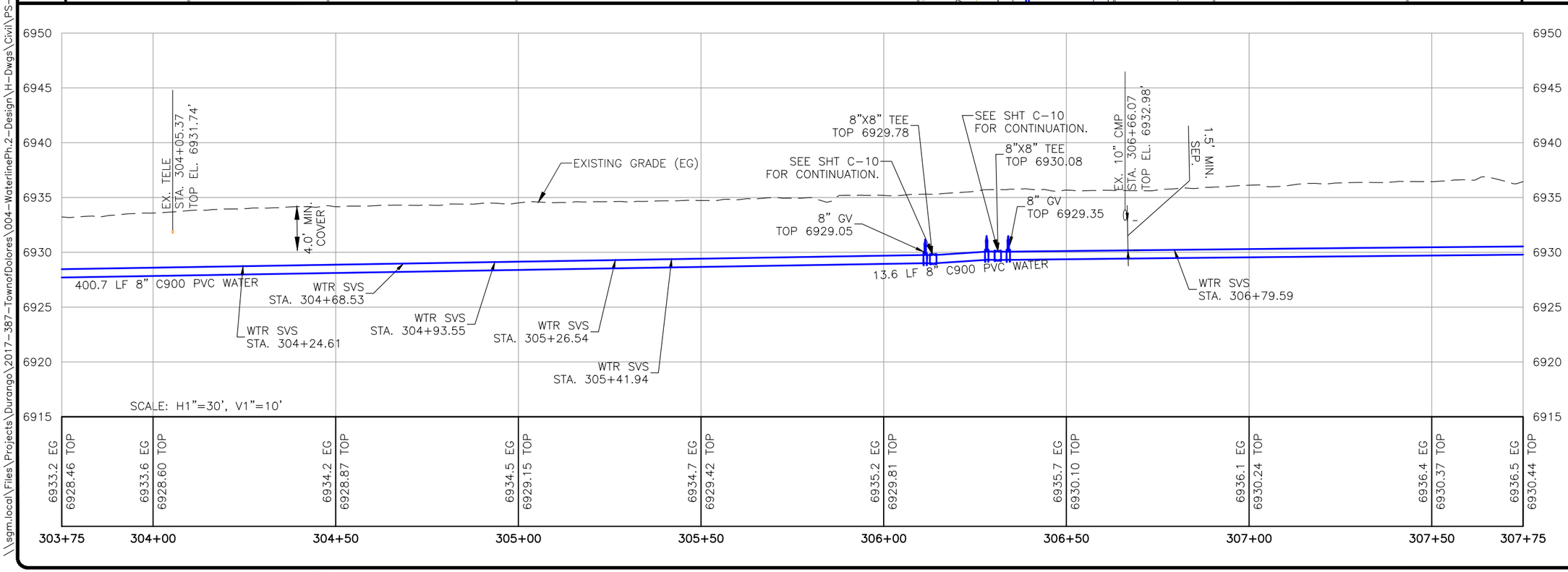

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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

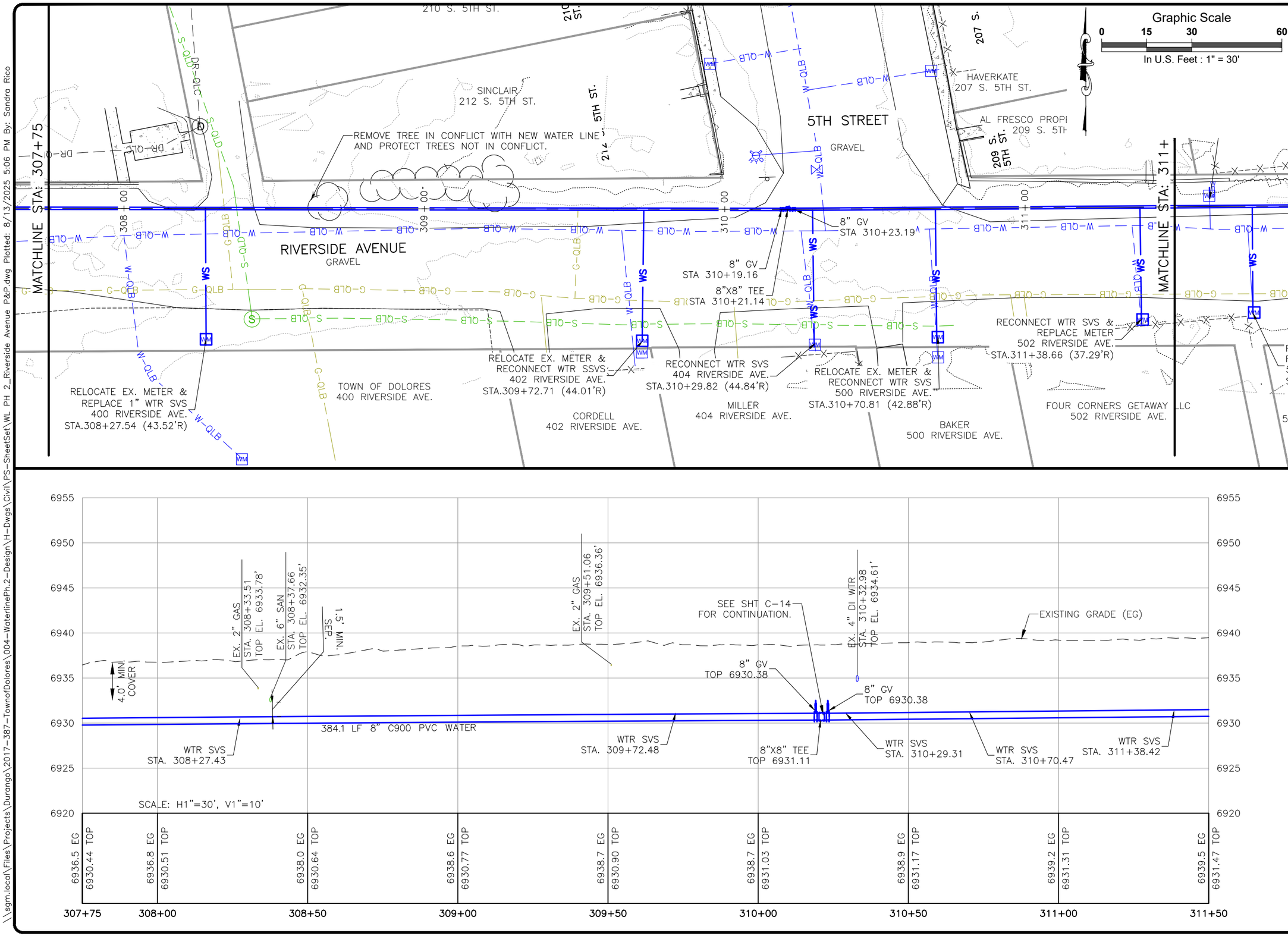
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_Riverside Avenue P&P

Title:
Riverside Ave. Waterline P&P Sta. 303+75 - Sta. 307+75

Dwg No.
C-25

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_Riverside Avenue P&P.dwg Plotted: 8/13/2025 5:06 PM By: Sandra Rico



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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

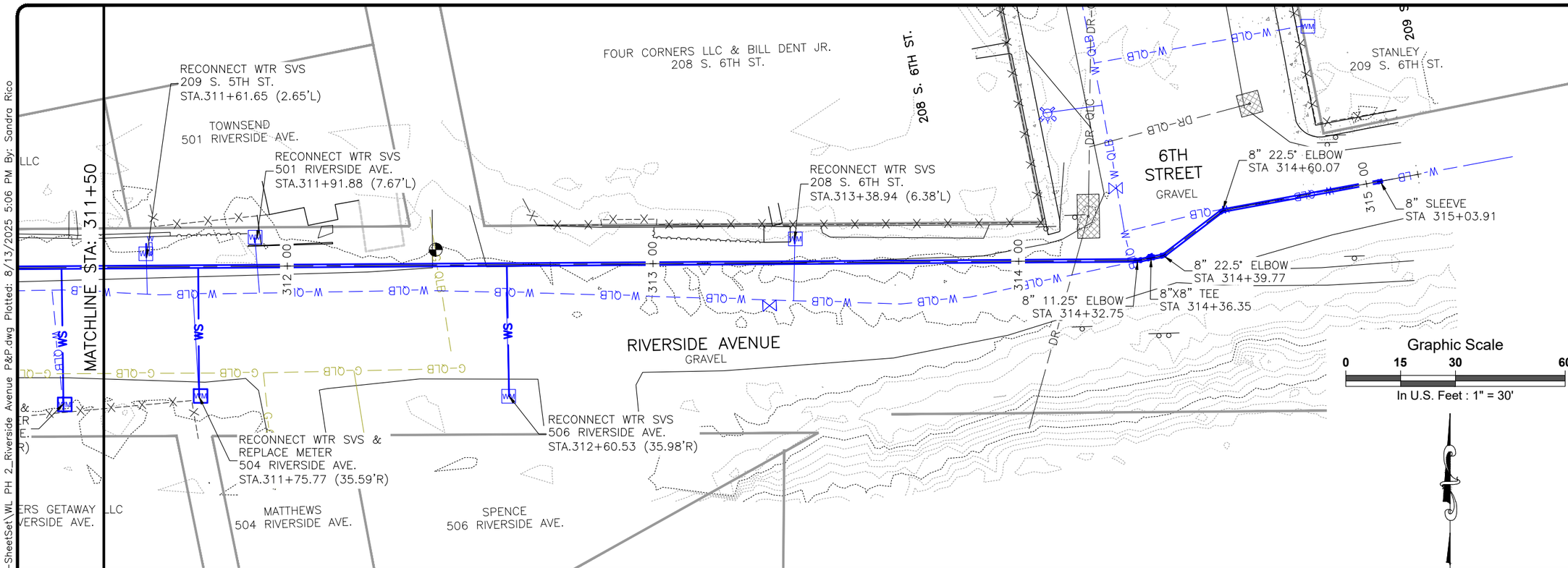
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_Riverside Avenue P&P

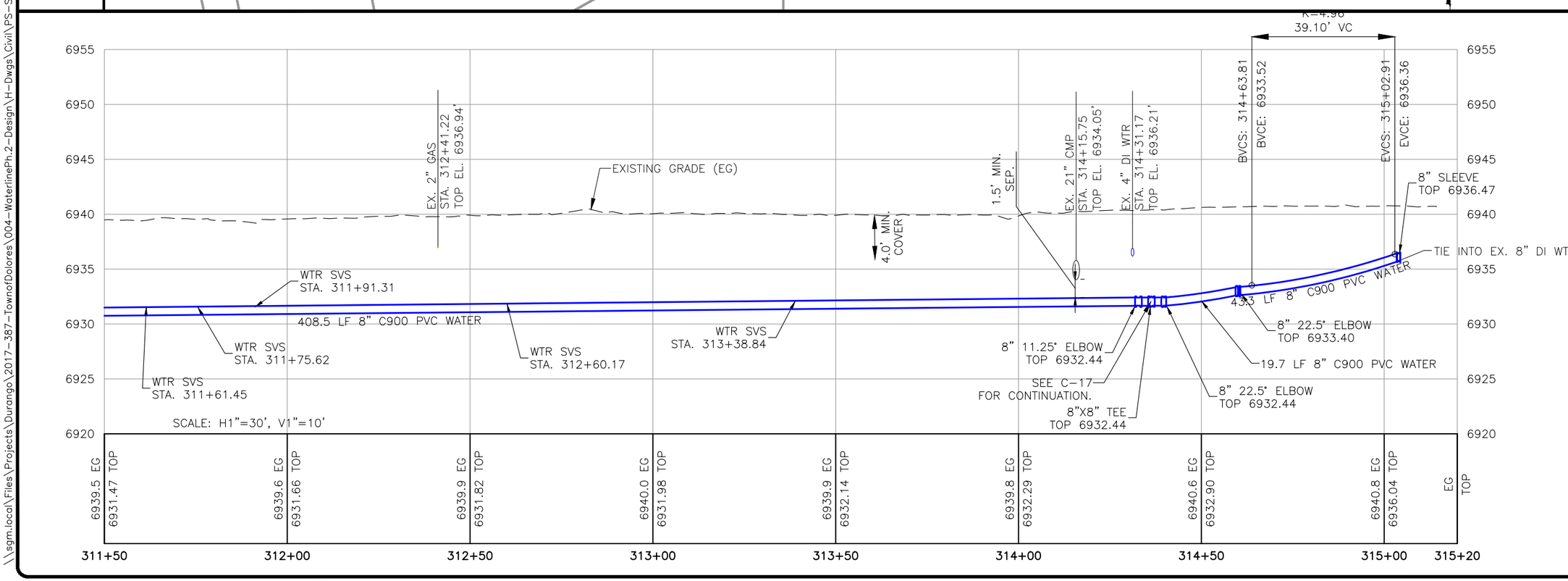
Title:
Riverside Ave. Waterline P&P Sta. 307+75 - Sta. 311+50

Dwg No.
C-26

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_Riverside Avenue P&P.dwg Plotted: 8/13/2025 5:06 PM By: Sandra Rico





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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

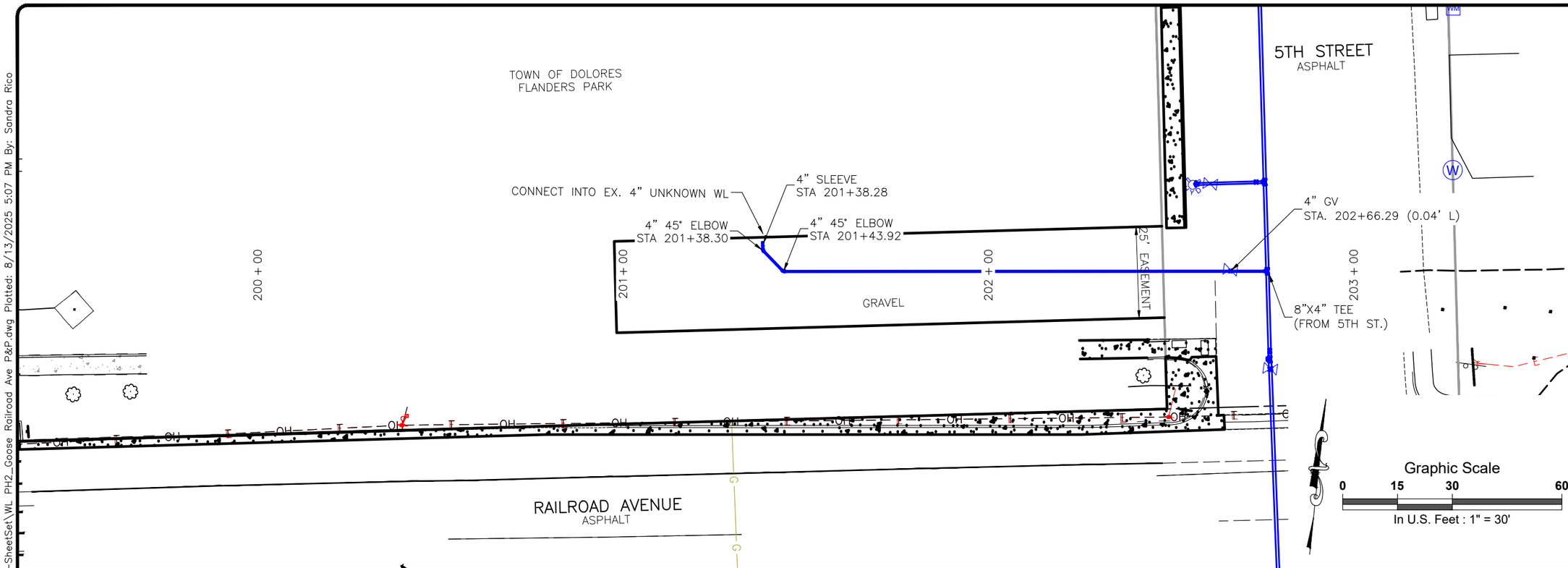
Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

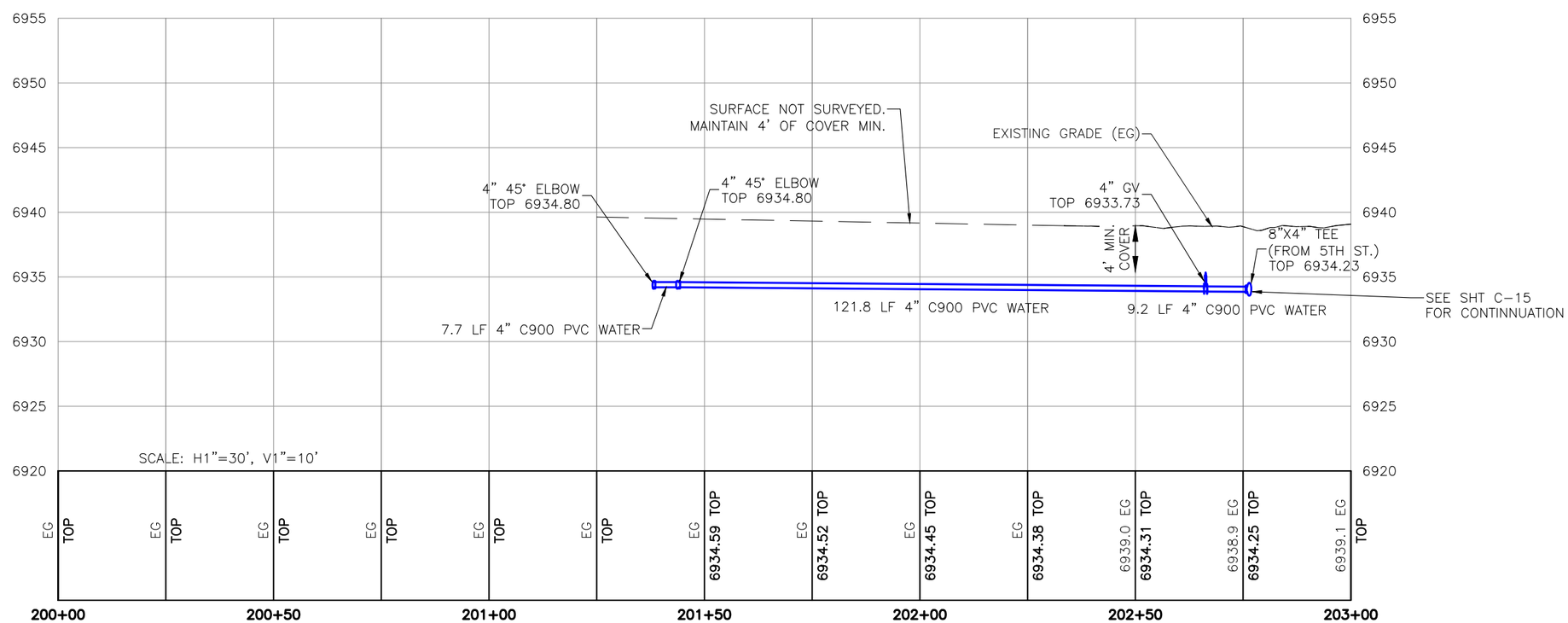
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_Riverside Avenue P&P

Title:
Riverside Ave. Waterline P&P Sta. 311+50 - Sta. 315+25

Dwg No.
C-27

Of : 69





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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

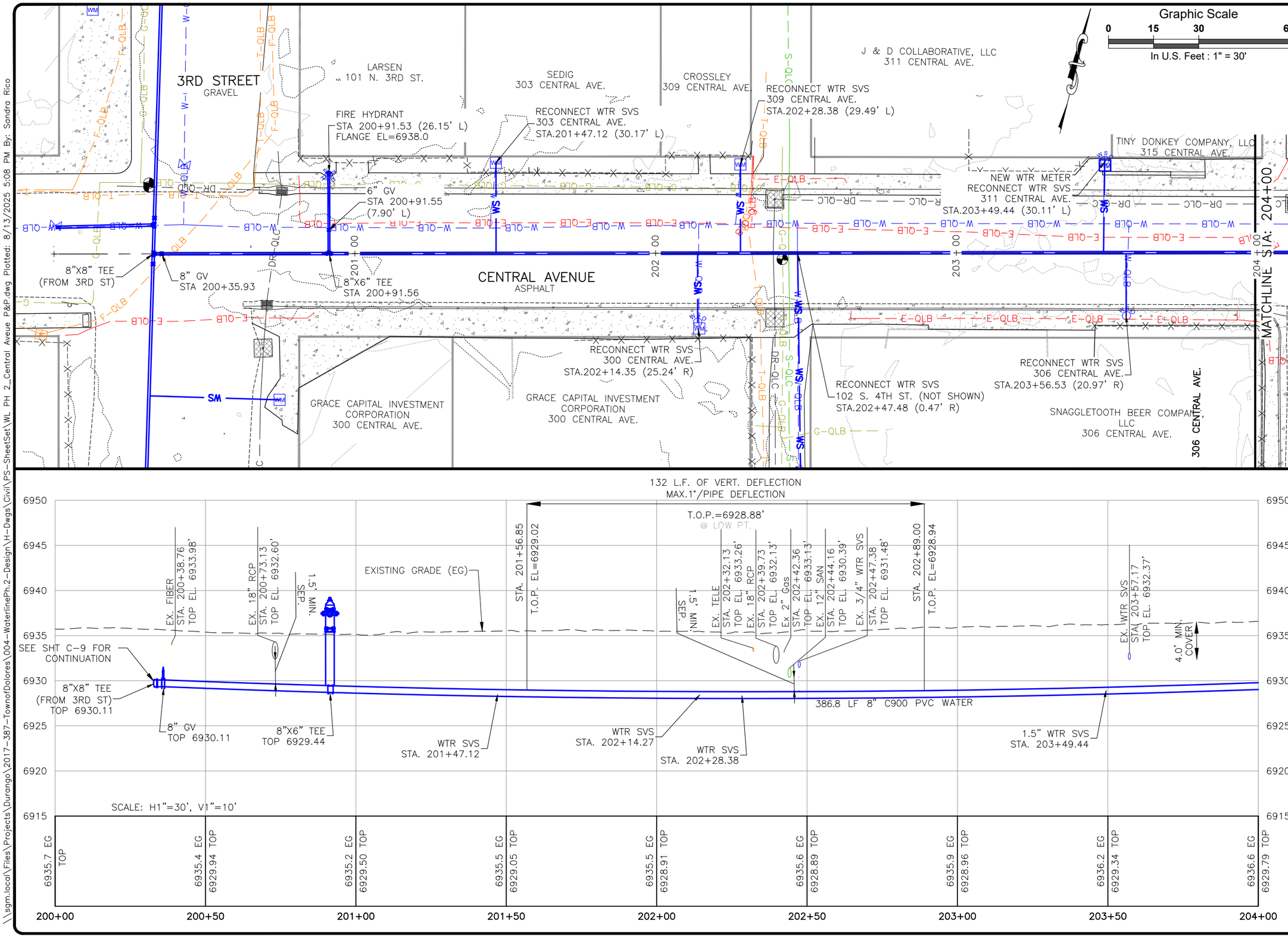
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File: WL PH2_Goose Railroad Ave P&P	

Title:
Goose Railroad
Waterline P&P Sta.
200+00 - Sta. 203+00

Dwg No.
C-28

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH2_Goose Railroad Ave P&P.dwg Plotted: 8/13/2025 5:07 PM By: Sandra Rico



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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

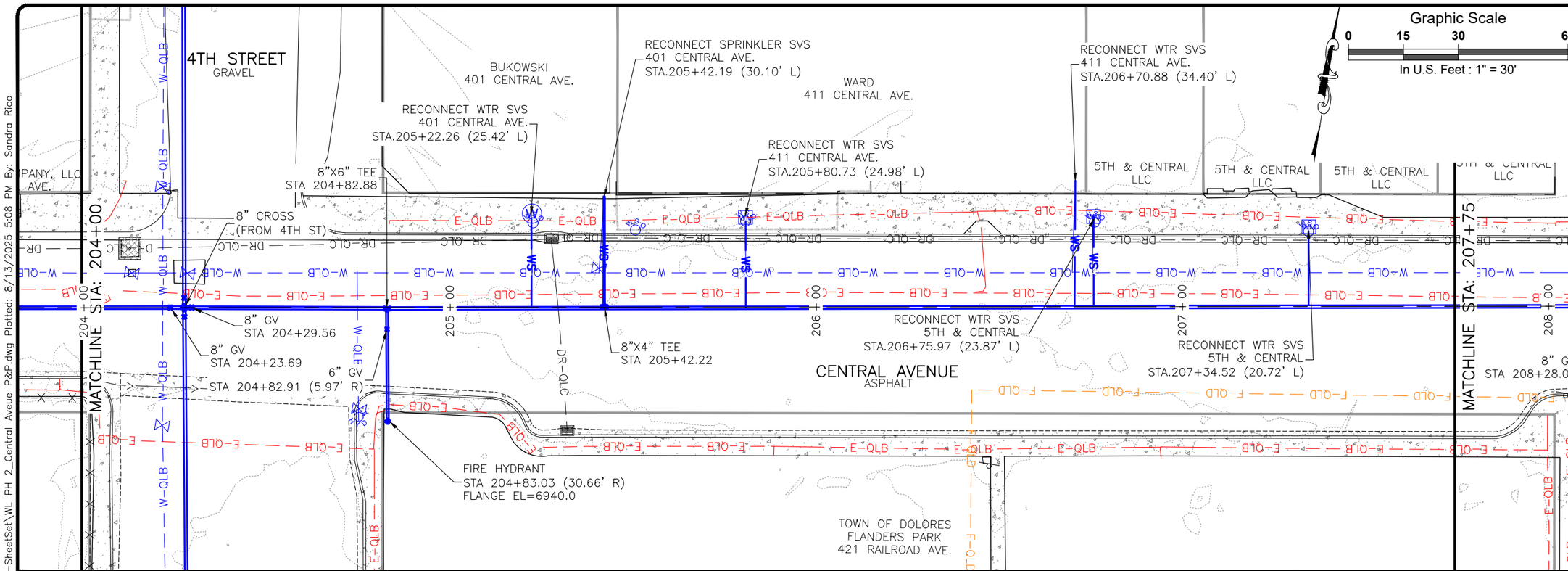
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File: WL PH 2_Central Aveue P&P	

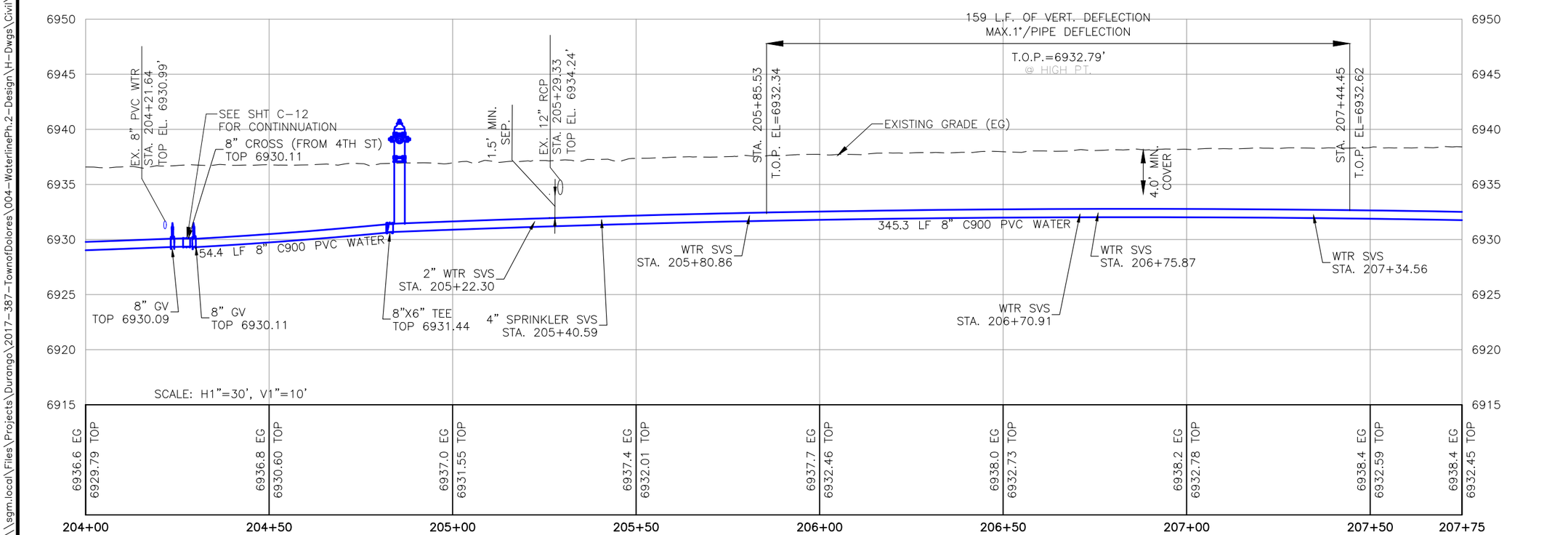
Title:
Central Ave. Waterline P&P Sta. 200+00 - Sta. 204+00

Dwg No.
C-29

Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_Central Aveue P&P.dwg Plotted: 8/13/2025 5:08 PM By: Sandra Rico





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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

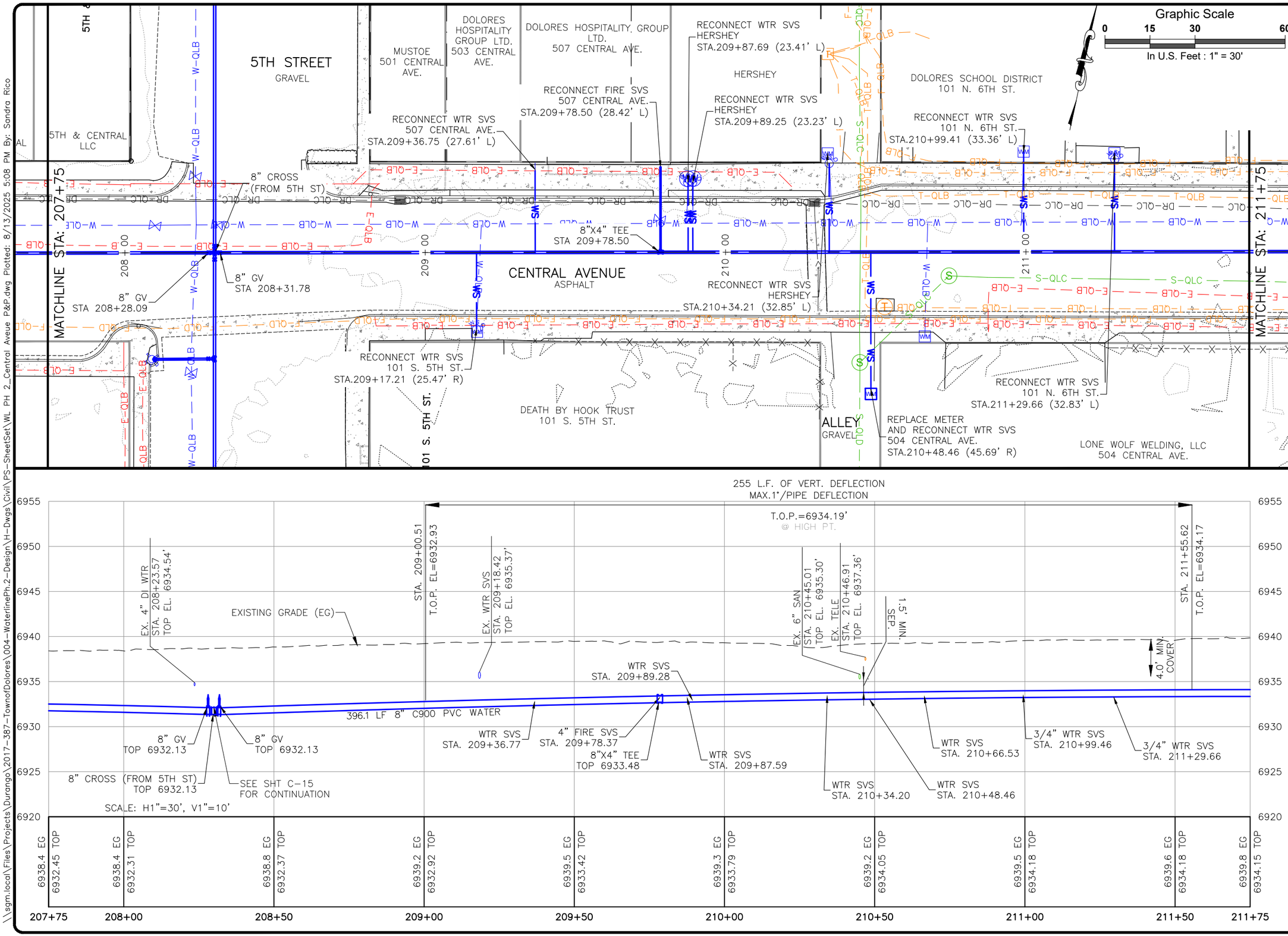
Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_Central Aveue P&P

Title:
Central Ave. Waterline P&P Sta. 204+00 - Sta. 207+75

Dwg No.
C-30

Of : 69



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Town of Dolores

Waterline Ph. 2 (2nd to 6th Streets)

#	Revision	Date	By:
1			

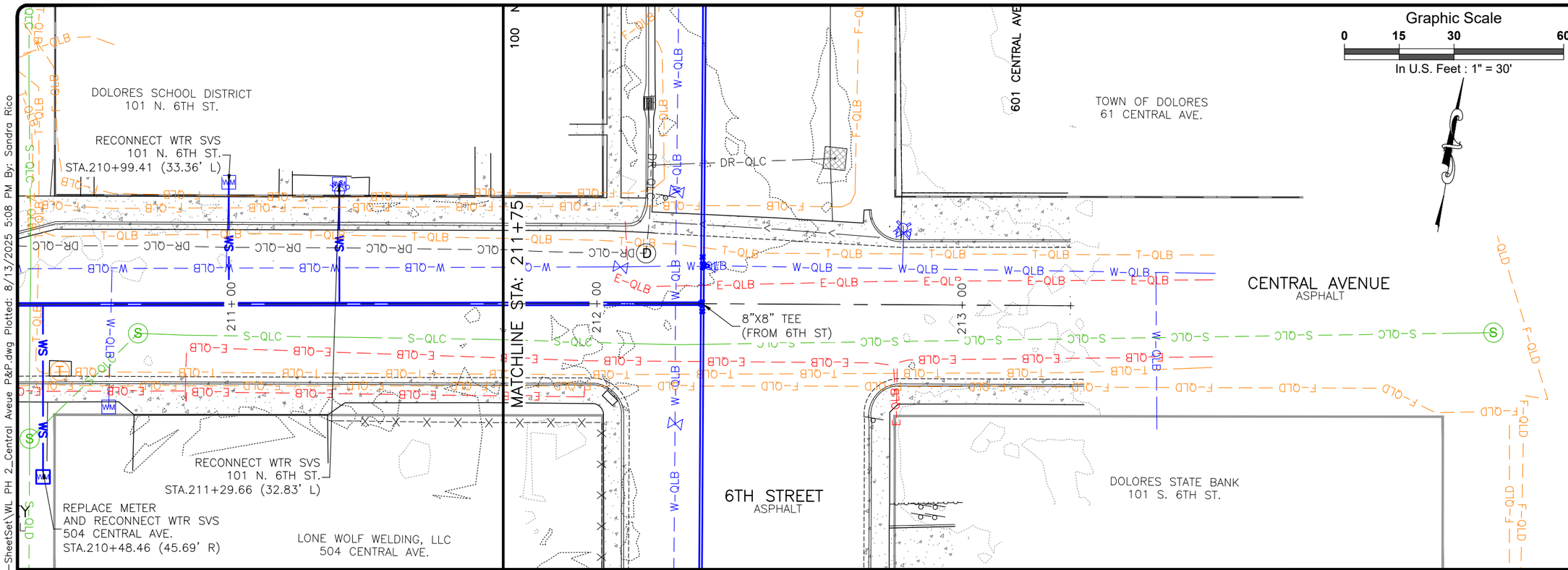
Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

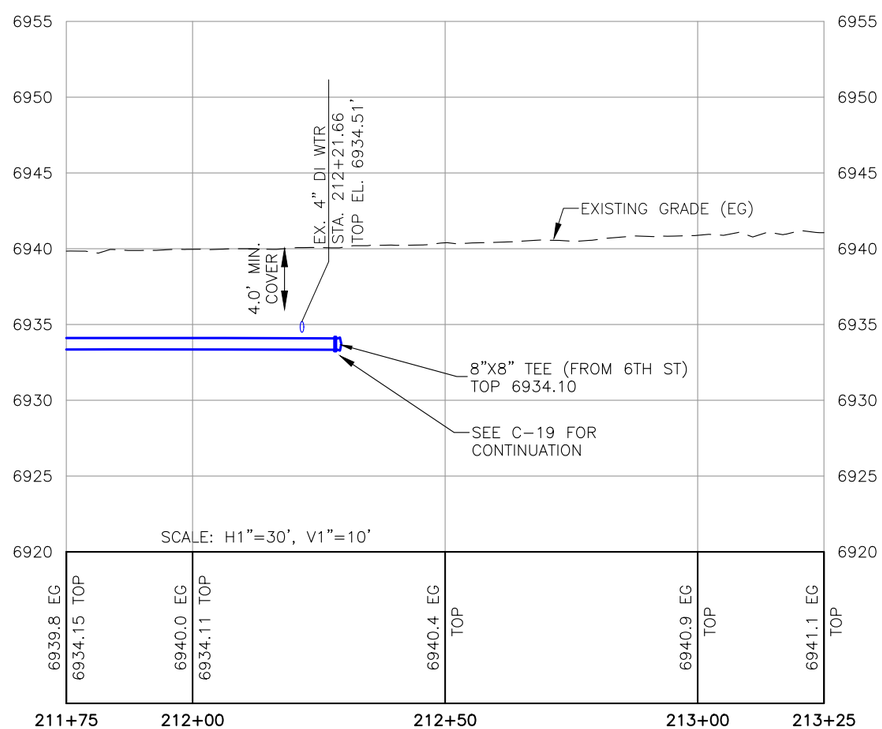
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File: WL PH 2_Central Aveue P&P	

Title:
Central Ave. Waterline P&P Sta. 207+75 - Sta. 211+75

Dwg No.
C-31

Of : 69





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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File: WL PH 2_Central Aveue P&P	

Title:
Central Ave. Waterline P&P Sta. 211+75 - Sta. 213+25

Dwg No.
C-32

Of : 69

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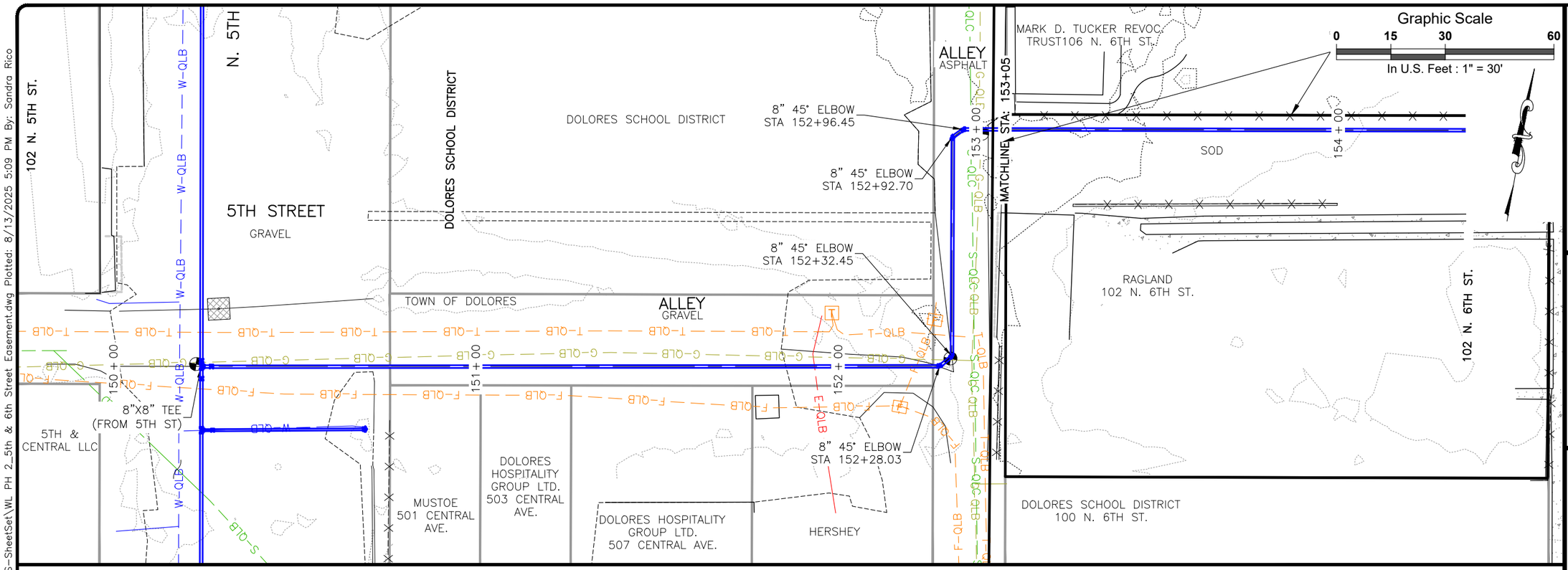

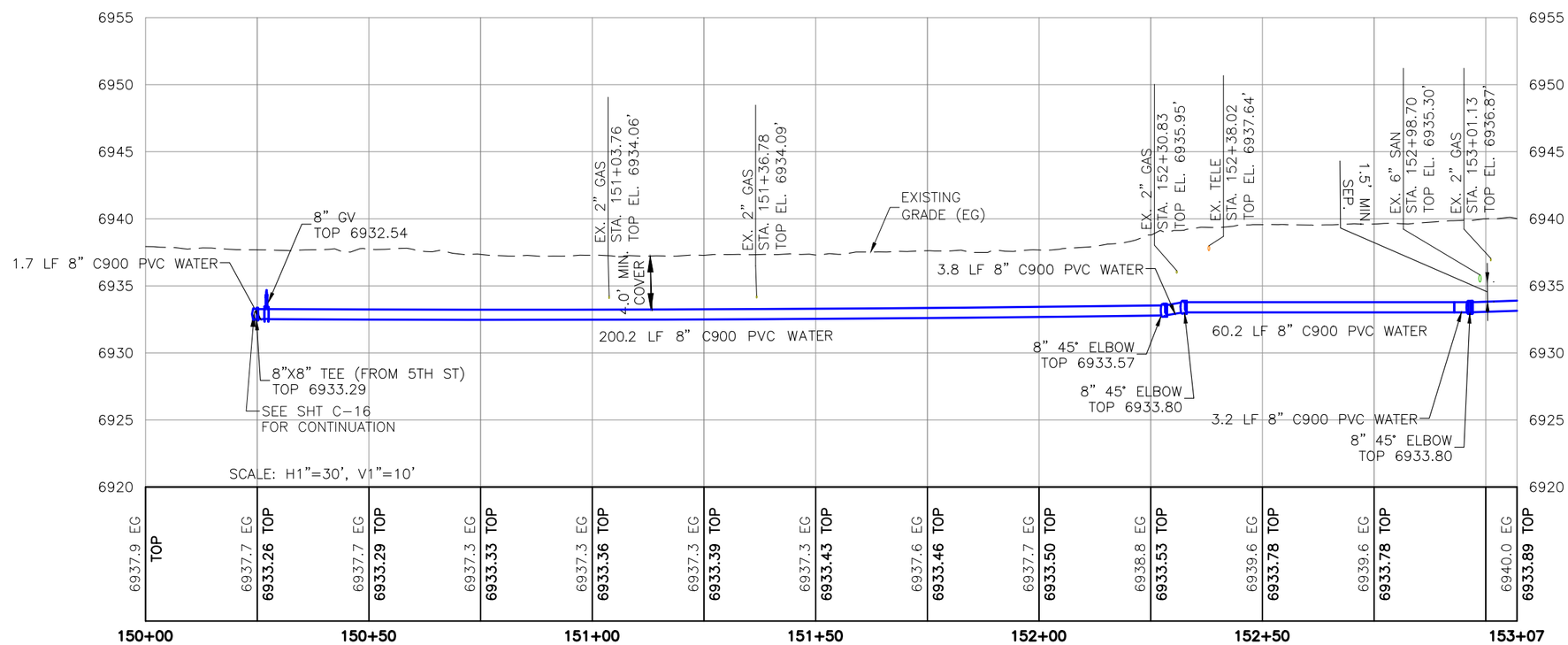

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Town of Dolores

Waterline Ph. 2 (2nd to 6th Streets)

#	Revision	Date	By:
1			

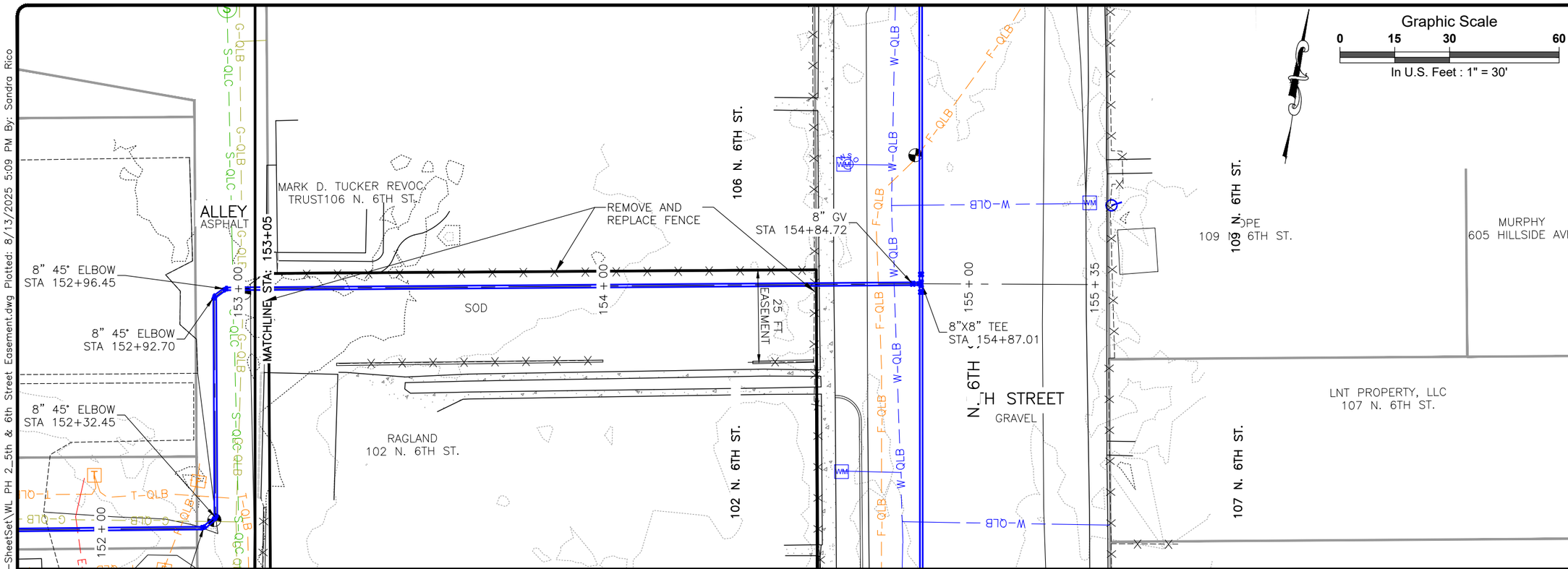
Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

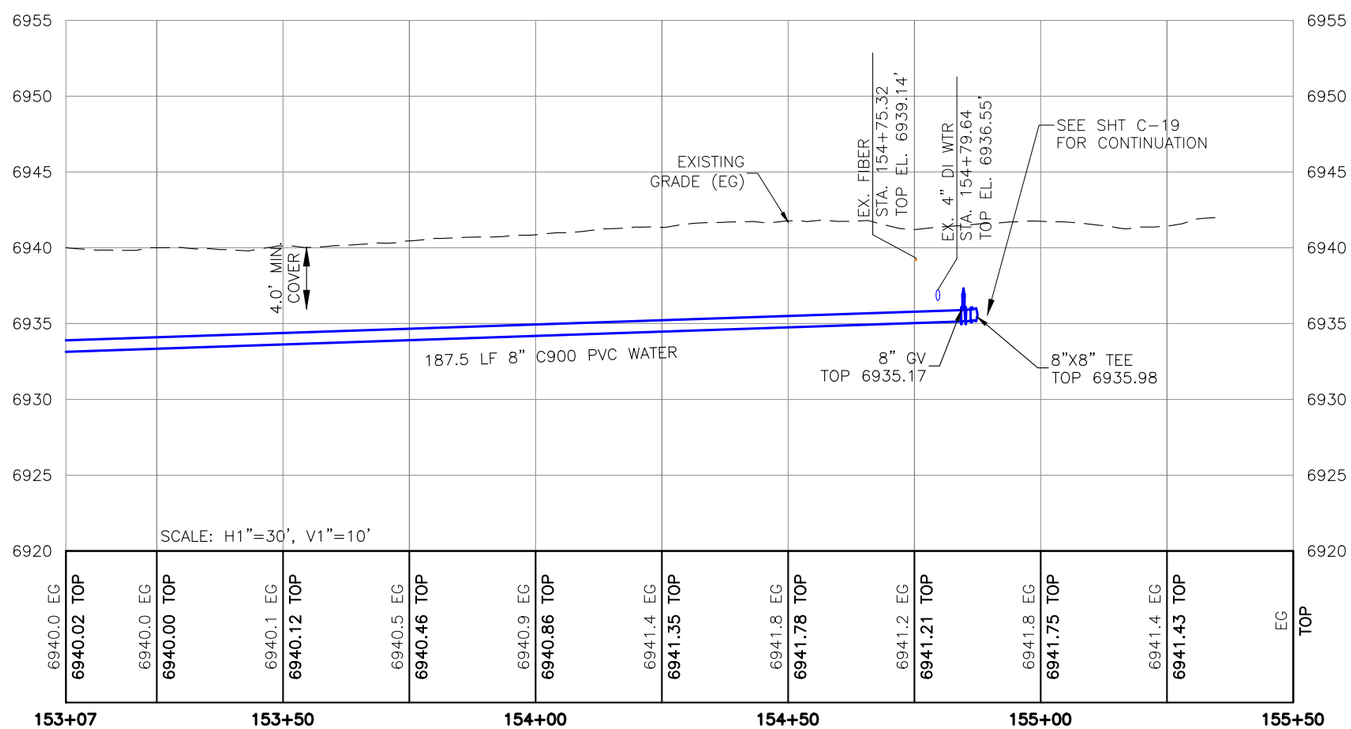
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_5th & 6th Street Easement

Title:
5th & 6th St. Easement
Waterline P&P Sta.
150+00 - Sta. 153+75

Dwg No.
C-33

Of : 69





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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_5th & 6th Street Easement

Title:
5th & 6th St. Easement
Waterline P&P Sta.
153+75 - Sta. 155+50

Dwg No.
C-34

Of : 69

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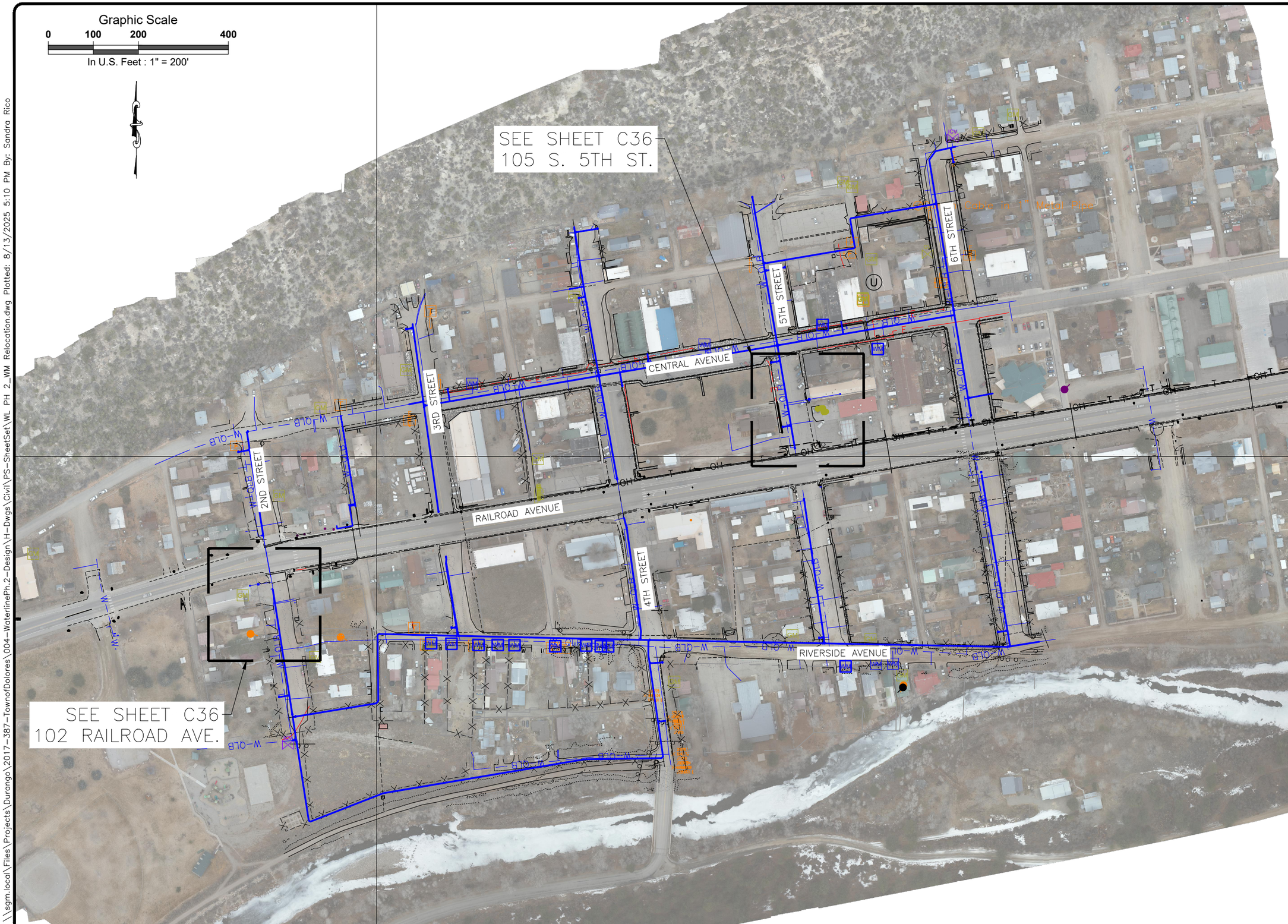

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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_WM Relocation

Title:

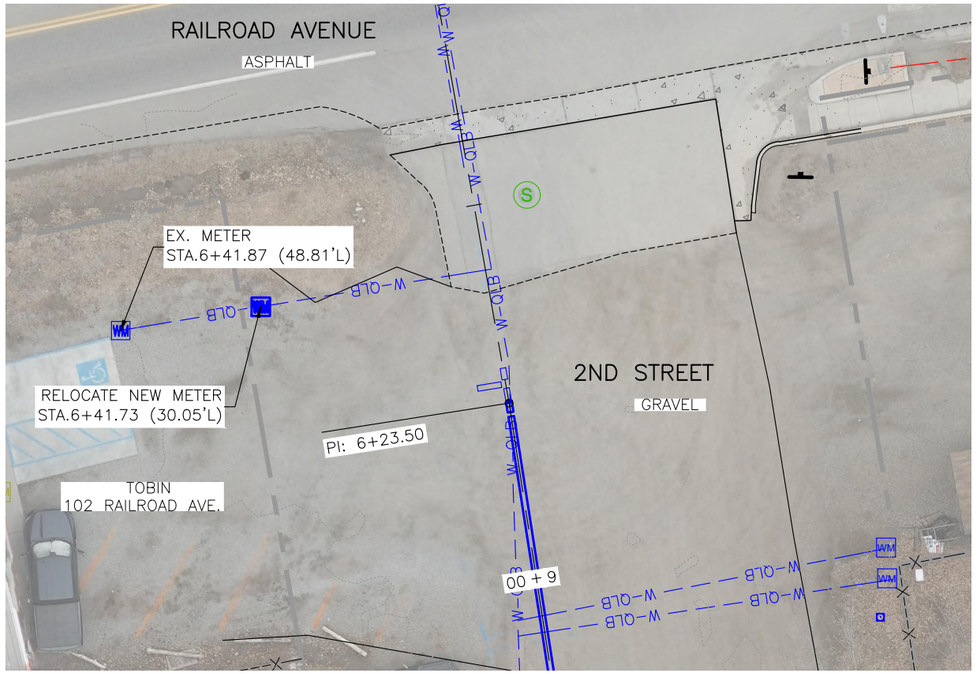
Meter Relocation Key Map

Dwg No.

C-35

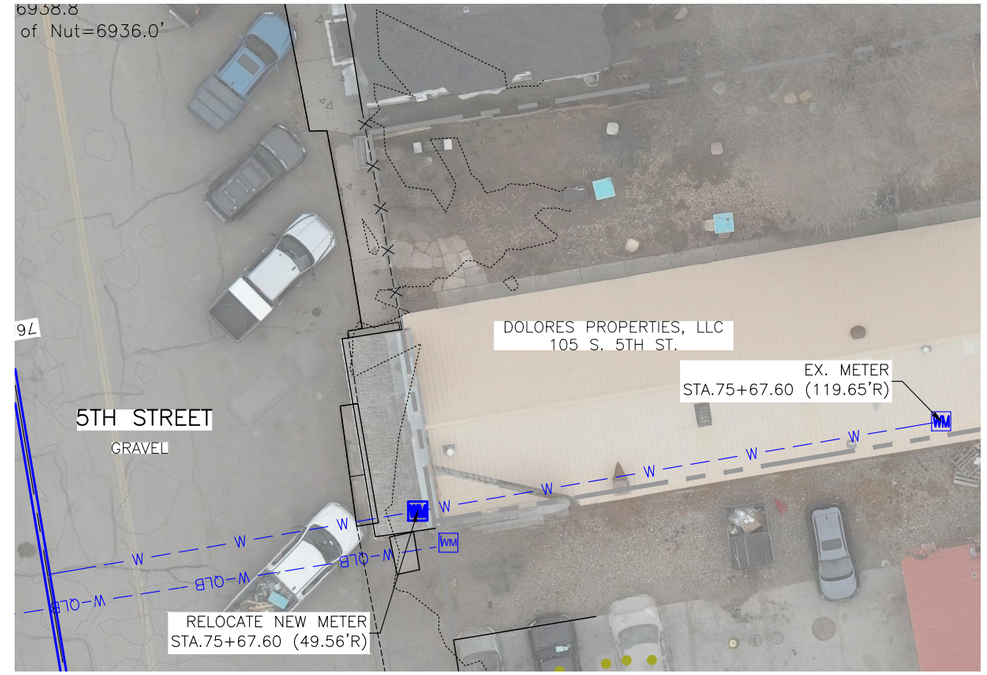
Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_WM Relocation.dwg Plotted: 8/13/2025 5:10 PM By: Sandra Rico



102 RAILROAD AVE. WATER SERVICE

1"=20'



105 S. 5TH ST. WATER SERVICE

1"=20'

Graphic Scale

0 10 20 40

In U.S. Feet : 1" = 20'

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Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_WM Relocation

Title:

Meter Relocation Plan

Dwg No.

C-36

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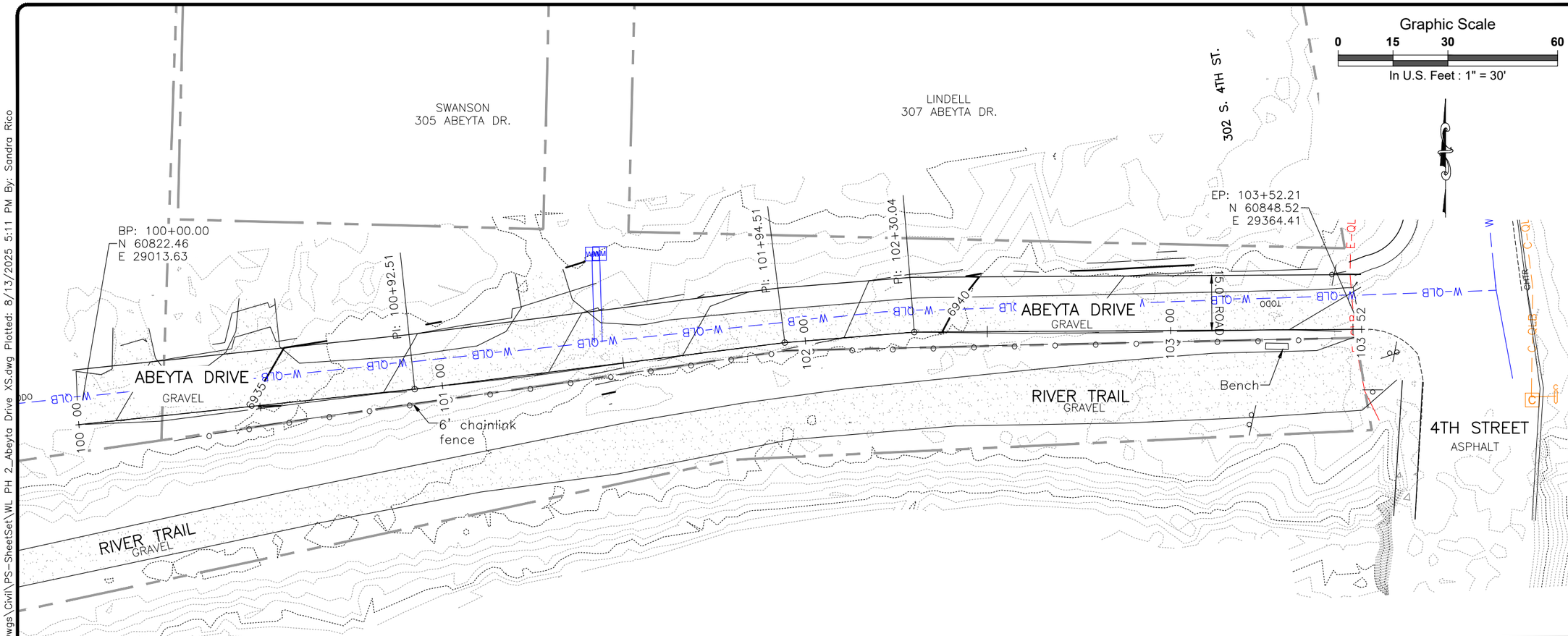

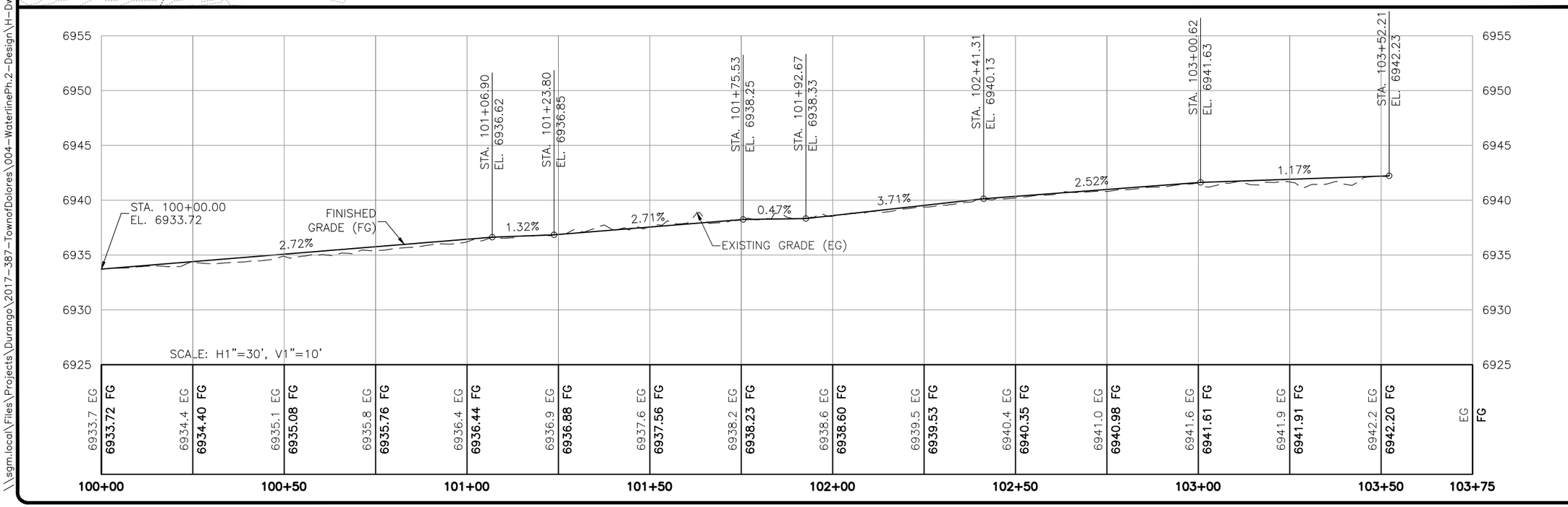

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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_Abeyta Drive XS

Title:

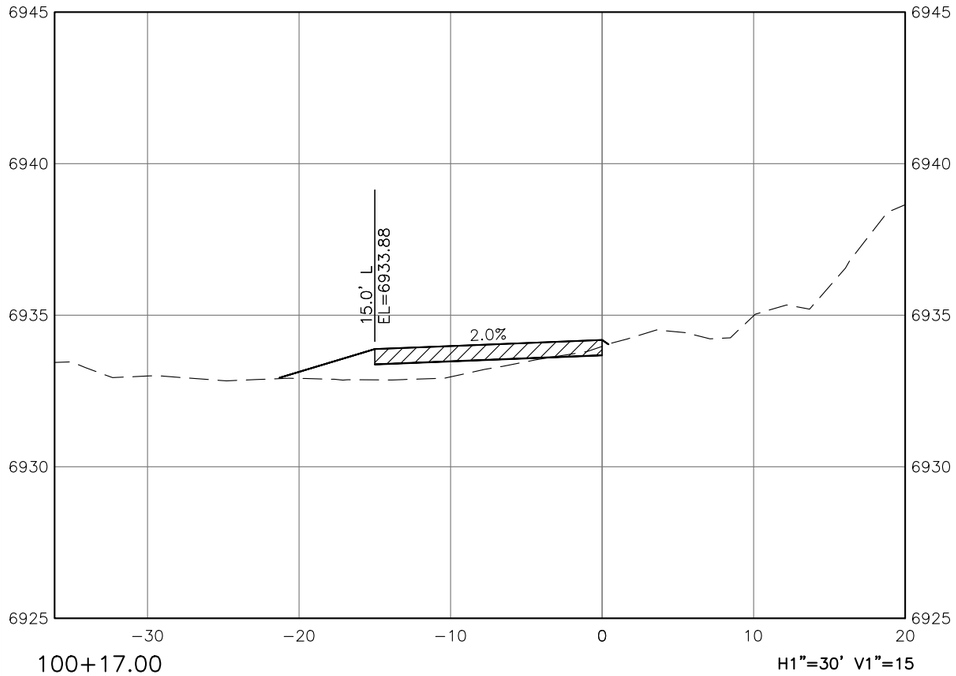
Abeyta Drive Plan & Profile

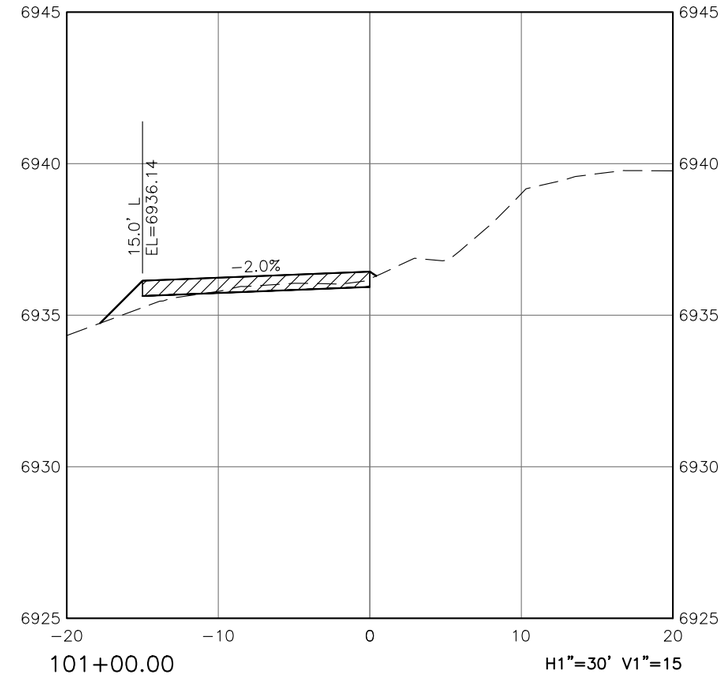
Dwg No.

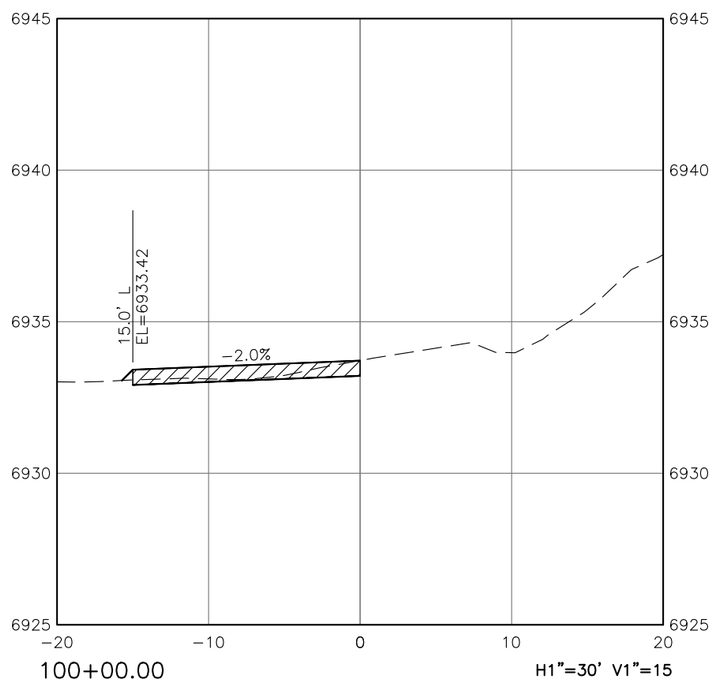
C-37

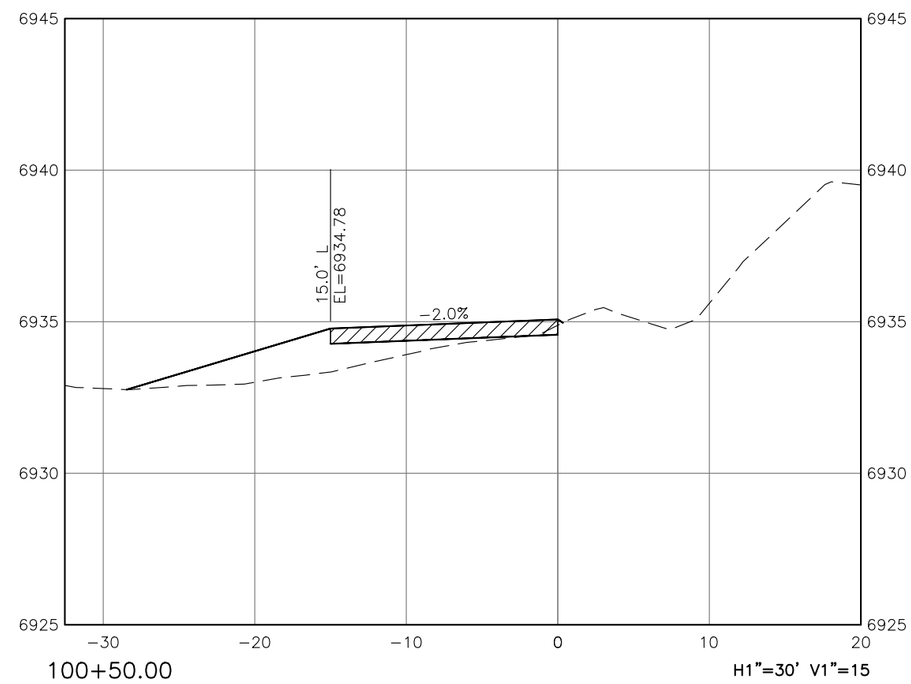
Of : 69

\\sgm.local\Files\Projects\Durango\2017-387-TownofDolores\004-WaterlinePh.2-Design\H-Dwgs\Civil\PS-SheetSet\WL PH 2_Abeyta Drive XS.dwg Plotted: 8/13/2025 5:11 PM By: Sandra Rico









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#	Revision	Date	By:
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Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_Abeyta Drive XS

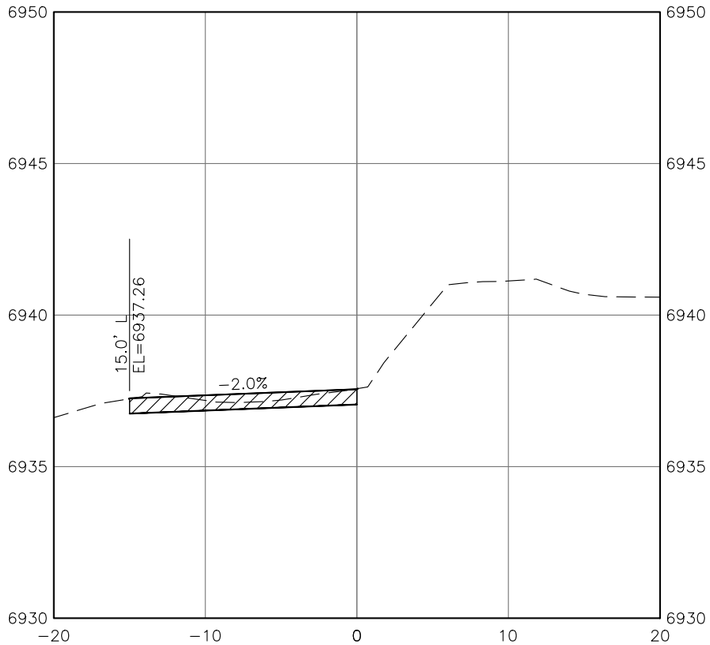
Title:

Abeyta Drive Cross Sections

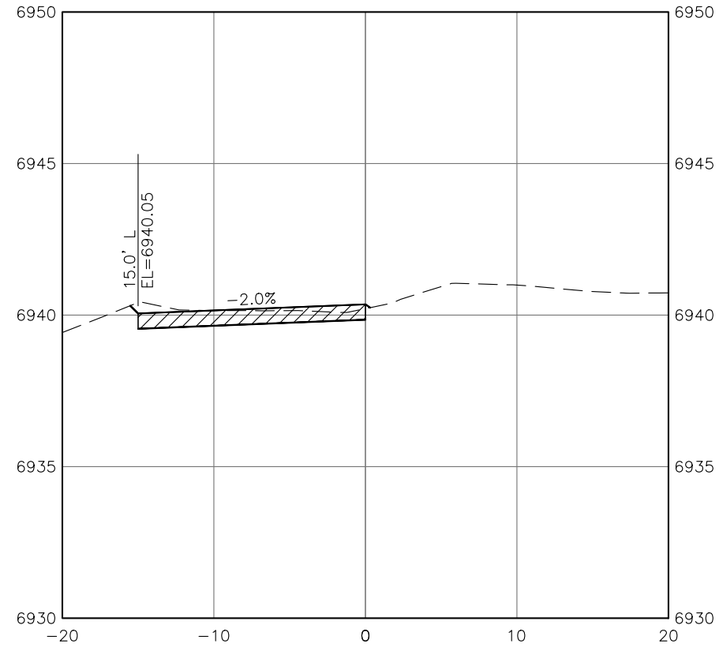
Dwg No.

C-38

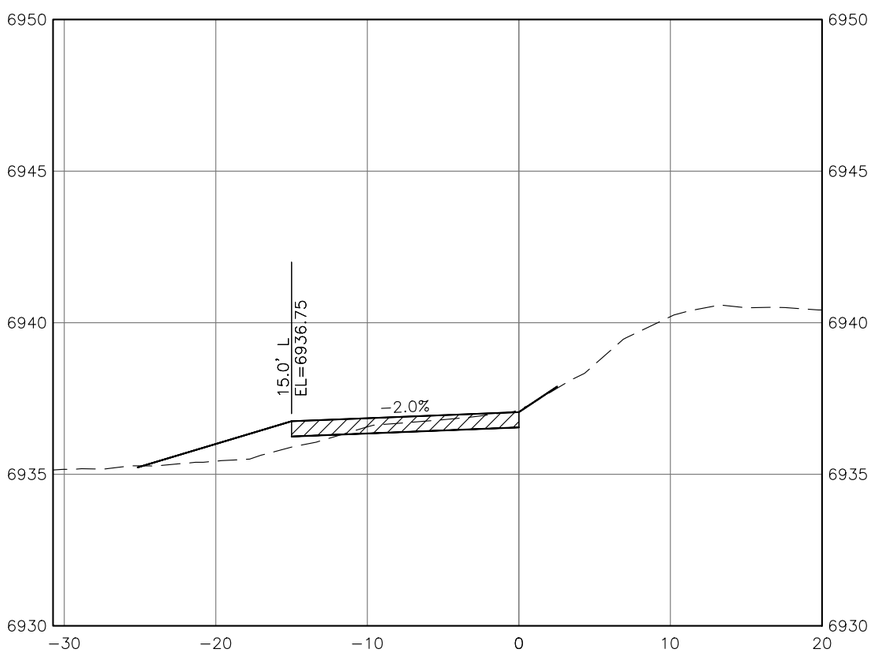
Of : 69



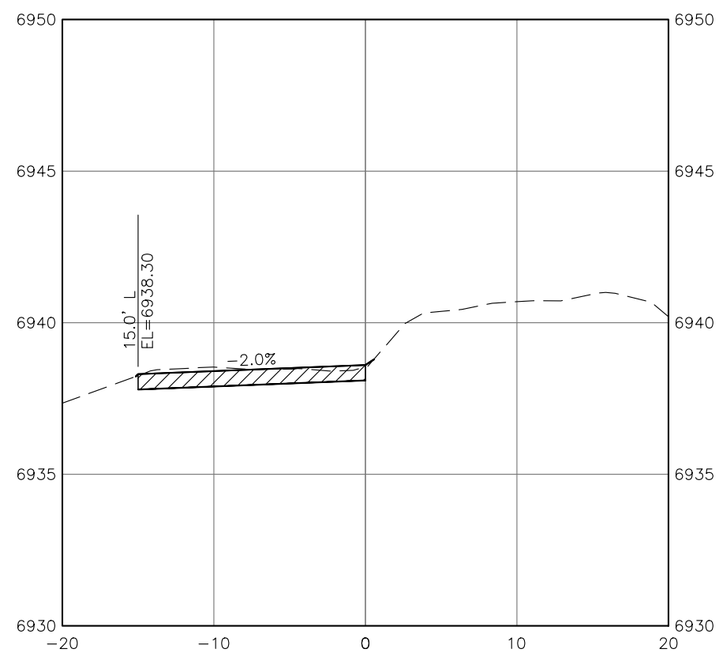
101+50.00 H1"=30' V1"=15



102+50.00 H1"=30' V1"=15



101+31.21 H1"=30' V1"=15



102+00.00 H1"=30' V1"=15

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Waterline Ph. 2
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#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_Abeyta Drive XS

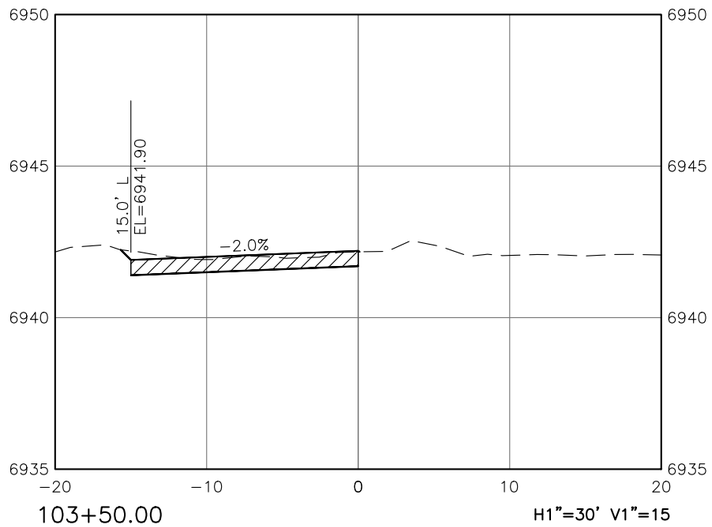
Title:

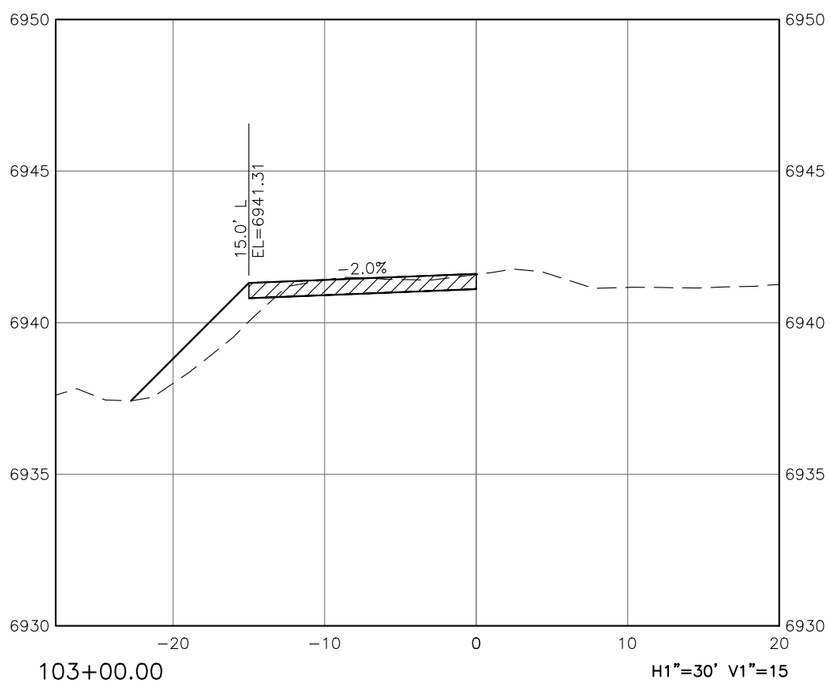
Abeyta Drive Cross Sections (2)

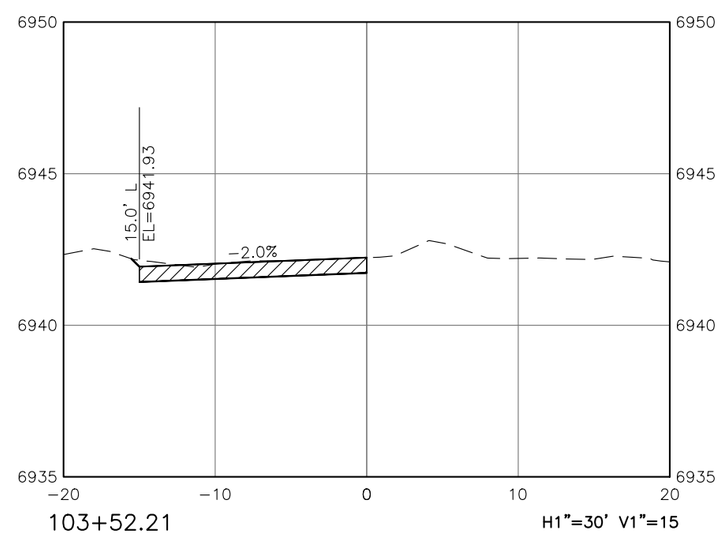
Dwg No.

C-39

Of : 69







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#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC: SAK	PE: CAC
File:	WL PH 2_Abeyta Drive XS

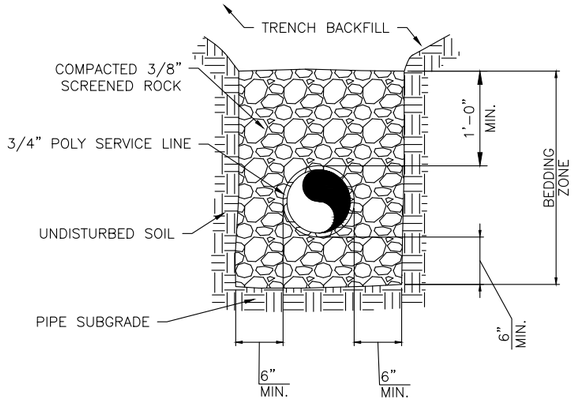
Title:

Abeyta Drive Cross Sections (3)

Dwg No.

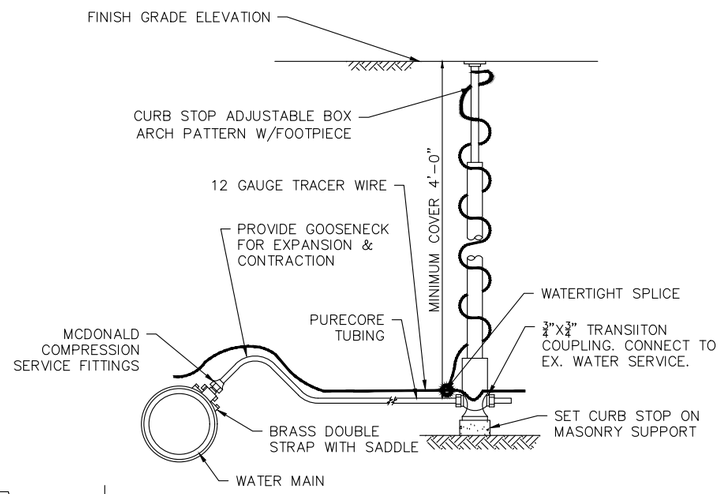
C-40

Of : 69



SERVICE STUB-OUT BEDDING

SCALE: 1" = 2'



NOTES:

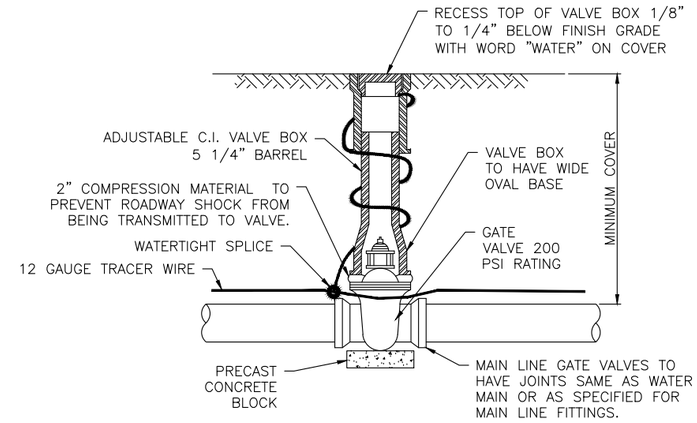
1. LOOSELY WRAP 12 GAUGE WIRE AROUND VALVE BOX BARREL. DRILL 1/8" HOLE TO ALLOW TRACER WIRE TO ENTER BARREL 4" BELOW VALVE BOX COVER WITH 12" OF WIRE DRAPED IN BARREL.
2. CURB STOP SHALL BE LOCATED 1-FOOT OUTSIDE R.O.W., OR 1-FOOT FROM BUILDING FACE, WHICHEVER DISTANCE IS SMALLER.

WATER SERVICE CONNECTION DETAIL

N.T.S.

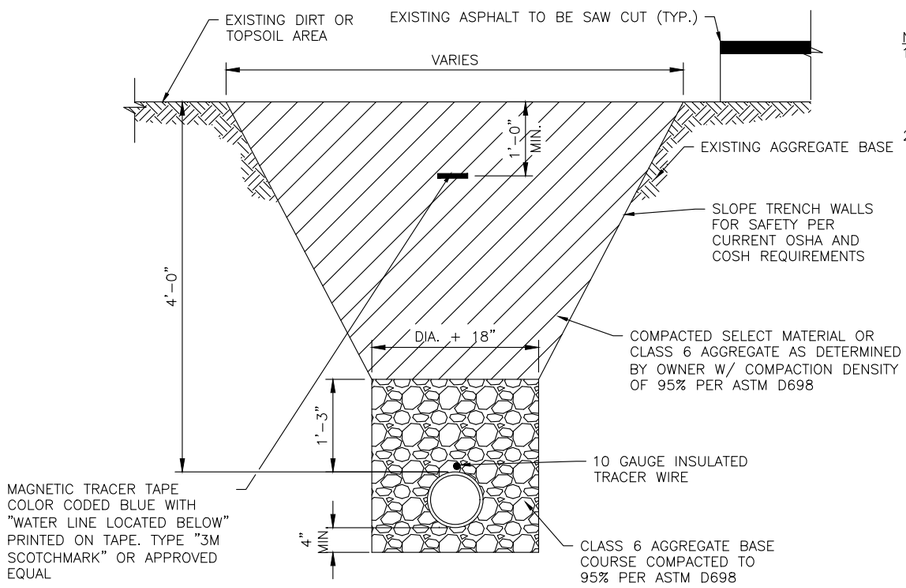
NOTE:
LOOSELY WRAP 12 GAUGE WIRE AROUND VALVE BOX BARREL. DRILL 1/8" HOLE TO ALLOW TRACER WIRE TO ENTER BARREL 4" BELOW VALVE BOX COVER WITH 12" OF WIRE DRAPED IN BARREL.

T.O.P. ELEV. LOCATION AS CALLED OUT ON PROFILES.



GATE VALVE DETAIL

N.T.S.

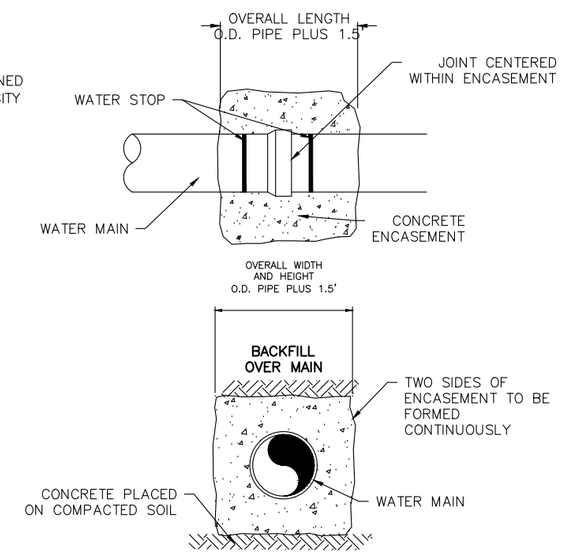


NOTES:

1. PAVEMENT REPLACEMENT SHALL MEET EXISTING THICKNESS AND KIND WITH THE FOLLOWING MINIMUMS:
   1.1. ASPHALT SURFACING = 3" MIN.
   1.2. AGGREGATE BASE COURSE = 8" MIN.
2. BASE COURSE REPLACEMENT SHALL MEET EXISTING THICKNESS WITH THE FOLLOWING MINIMUMS:
   2.1. AGGREGATE BASE COURSE = 12" MIN.
3. DIRT / TOPSOIL PLACEMENT SHALL MEET EXISTING THICKNESS AND KIND WITH THE FOLLOWING MINIMUMS:
   3.1. 4" TOPSOIL.
4. SELECT MATERIAL AS FOLLOWS:
   4.1. 6" MAXIMUM SIZE IN TOP 12" OF BACKFILL
   4.2. 12" MAXIMUM SIZE IN REMAINDER OF BACKFILL

WATER TRENCH WITH TRACER TAPE CROSS-SECTION

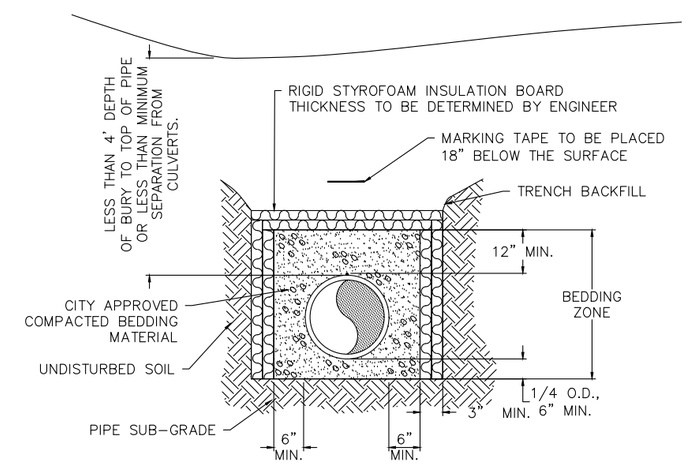
N.T.S.



NOTE: ALL WATERLINE JOINTS MUST BE ENCASED IN CONCRETE.

WATER MAIN JOINT CONCRETE ENCASEMENT DETAIL

N.T.S.



NOTES:

1. CONDITION OF LESS THAN MINIMUM BURY DEPTH ALLOWED ONLY WITH WRITTEN APPROVAL FROM THE CITY PRIOR TO CONSTRUCTION. INSULATION SHALL BE INSTALLED ON ALL PIPE THAT DOES NOT MEET MINIMUM BURY REQUIREMENTS.
2. SEE WATER PIPE BEDDING DETAIL FOR BACKFILL MATERIAL AND COMPACTION SPECS.
3. INSULATION SHALL BE INSTALLED ON ALL PIPE THAT DOES NOT MEET MINIMUM COVER REQUIREMENTS INCLUDING FROM ANY OPEN AIR CULVERT. THIS APPLIES TO THE BOTTOM OF THE PIPE IF IT CROSSES OVER TOP OF THE CULVERT.
4. EXTEND INSULATION EACH DIRECTION UNTIL MINIMUM COVER IS MET OR DISTANCE THAT EQUALS MINIMUM COVER (7') FROM CULVERT TO TOP OF PIPE DIAGONALLY IS MET.

WATER PIPE INSULATION DETAIL

N.T.S.

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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

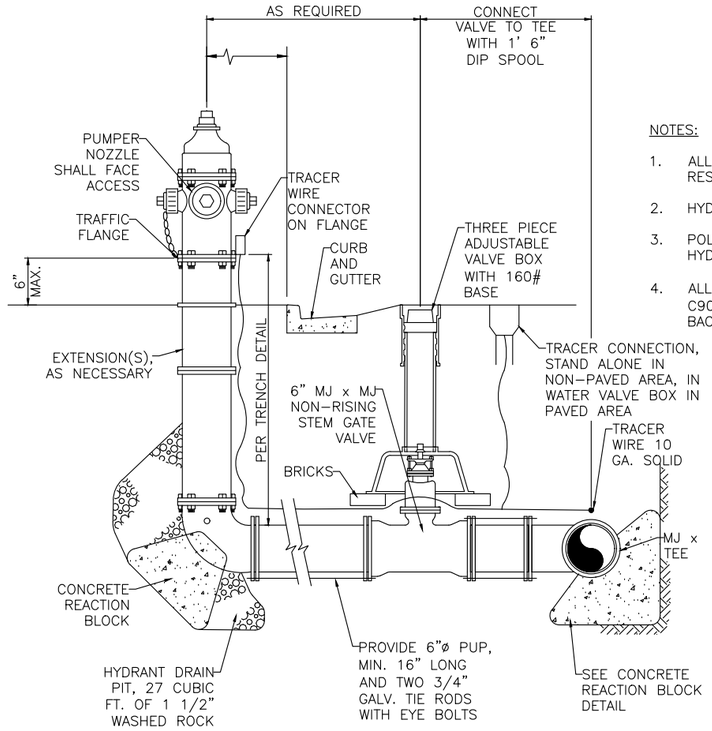
Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_Details

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Title: Water Details

Dwg No. C-41

Of: 69

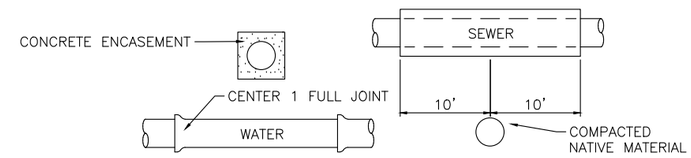


FIRE HYDRANT ASSEMBLY – TEE SPOOL VALVE

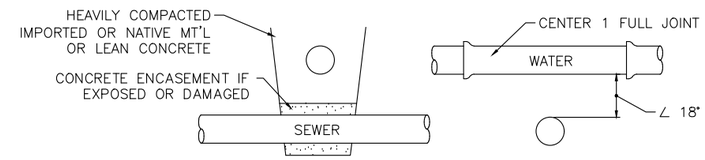
SCALE: 1" = 1'-0"

NOTES:

1. ALL JOINTS FROM MAIN TO HYDRANT SHALL BE RESTRAINED MECHANICAL JOINTS OR FLANGED JOINTS.
2. HYDRANT, VALVE AND FITTINGS TO BE 250 P.S.I. RATED.
3. POLYETHYENE WRAP SHALL COVER D.I.P. ASSEMBLY FROM HYDRANT BASE TO WATER MAIN.
4. ALL HYDRANT LEAD PIPING TO BE 6" CLASS 200 PVC C900 5) CENTERLINE OF HYDRANT TO BE 4'-0" FROM BACK OF CURB UNLESS OTHERWISE NOTED.



CONDITION #1: NEW WATER MAIN BELOW EXIST. SEWER MAIN

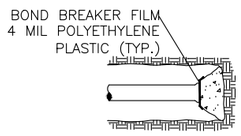


CONDITION #2: NEW WATER MAIN LESS THAN 18" ABOVE EXIST. SEWER MAIN

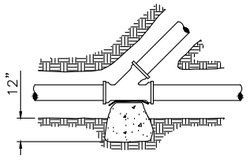
NOTE: SEWER/WATER LINE TO BE CONSTRUCTED OF ONE JOINT (18' MINIMUM) OF C-900 PVC, DR-18 PIPE, CENTERED ON SEWER/WATER LINE FOR PERPENDICULAR CROSSING. FOR SKEW CROSSINGS, USE C-900 PIPE UNTIL HORIZONTAL SEPARATION EXCEEDS 10'.

WATER / SEWER CROSSING DETAIL

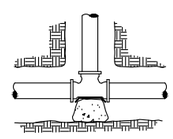
1" = 1'-0"



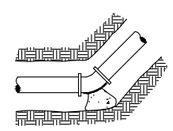
DEAD END



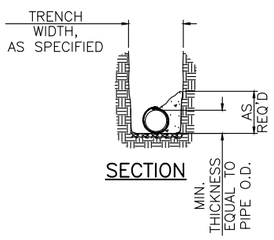
WYE



TEE



90°, 45°, 22.5°, OR 11.25° ELBOW, HORIZONTAL OR BOTTOM OF VERTICAL



SECTION

CONCRETE REACTION BLOCK DETAILS

N.T.S.

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Town of Dolores

Waterline Ph. 2
(2nd to 6th Streets)

#	Revision	Date	By:
1			

Project Milestone: PRELIMINARY NOT FOR CONSTRUCTION

Job No.	2017-387.004
Drawn by:	SKR
Date:	07.01.2025
QC:	SAK PE: CAC
File:	WL PH 2_Details

Title:

Road Details

Dwg No.

C-42

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