TOWN OF HAYDEN

HBP CLOSED LOOP WATER HEATING AND COOLING DISTRIBUTION PROJECT 2024 SCHEDULE 1

TOWN ADMINISTRATION AND PUBLIC WORKS

BRYAN BANKS ---- MAYOR MATHEW MENDISCO ---- TOWN MANAGER BRYAN RICHARDS ---- PUBLIC WORKS DIRECTOR TREVOR GANN ---- MAYOR PRO-TEM MELINDA CARLSON ---- COUNCIL MEMBER RYAN BELL ---- COUNCIL MEMBER ELAINE HICKS --- COUNCIL MEMBER DANNY HAYDEN --- COUNCIL MEMBER CAMILLA HAIGHT ---- COUNCIL MEMBER

APPROVALS

RYAN RICHARDS PUBLIC WORKS DIRECTOR

DATE

AARON AVERETT, P.E. PROJECT ENGINEER

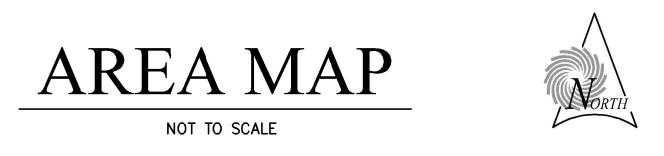
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PREPARED BY:



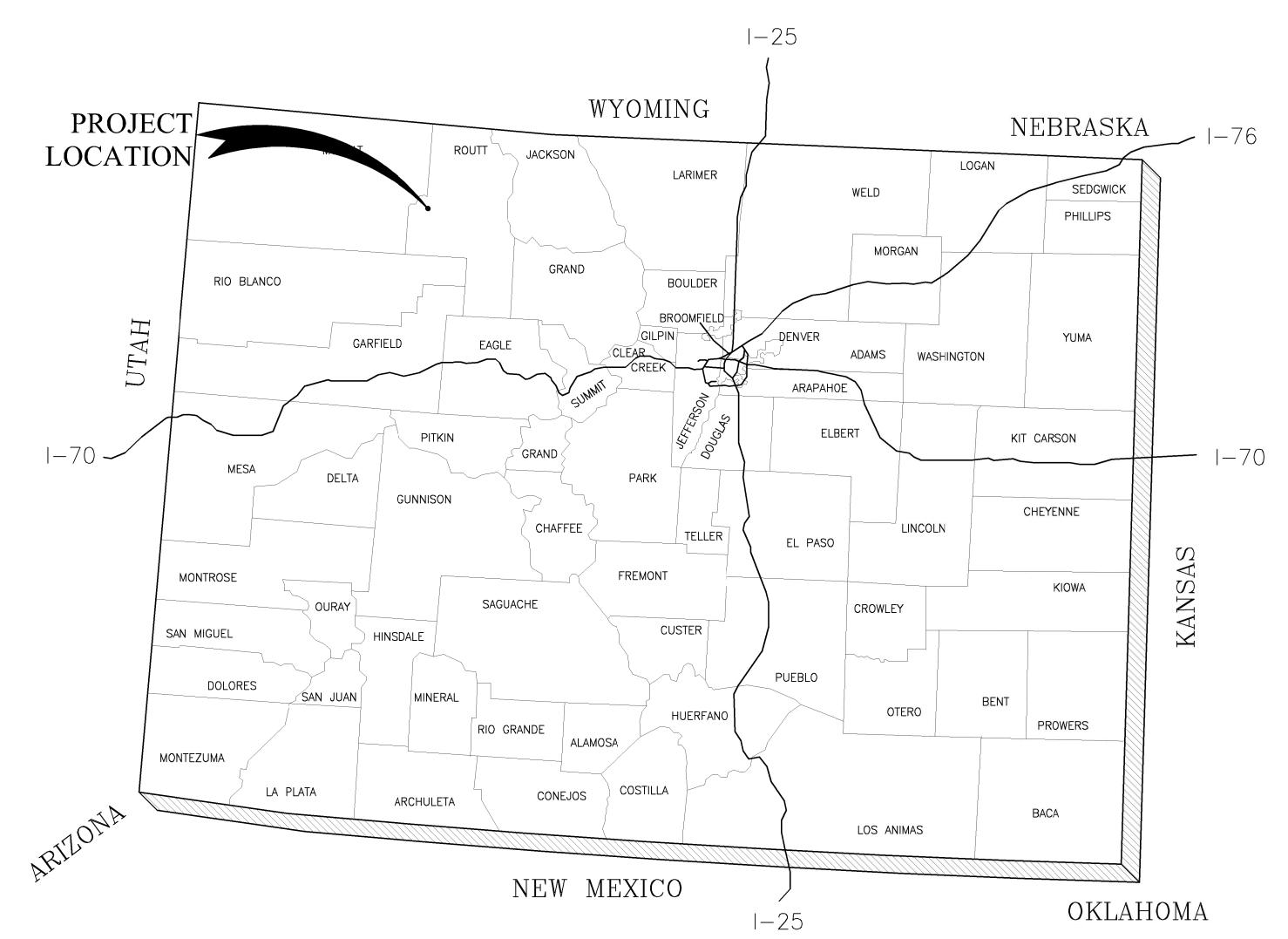
148 SOUTH VERNAL AVE VERNAL, UT 84078 TEL 435.789.7364 Z FAX 435.789



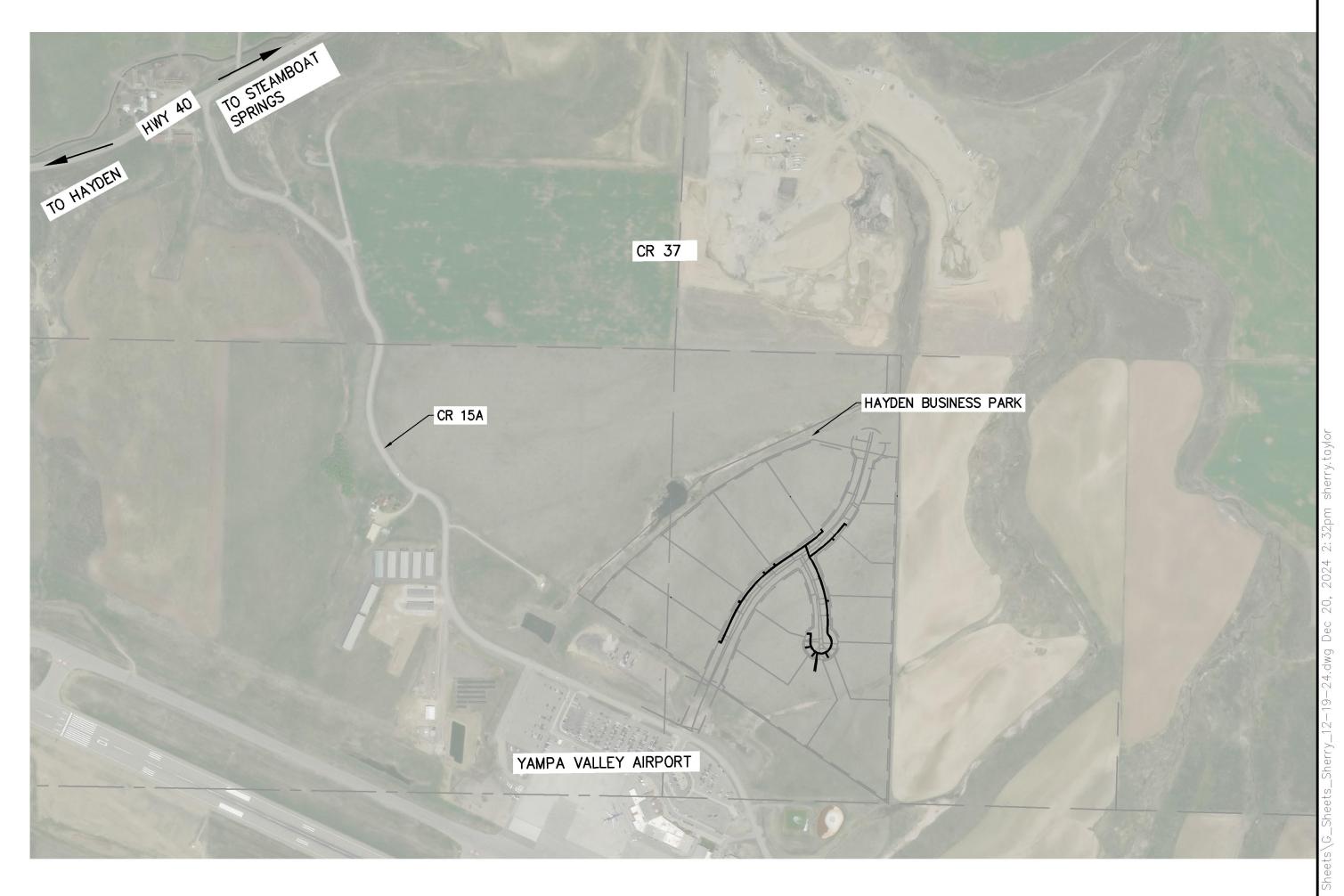




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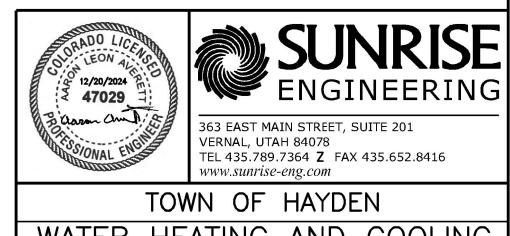
STATE OF COLORADO



TOWN OF HAYDEN

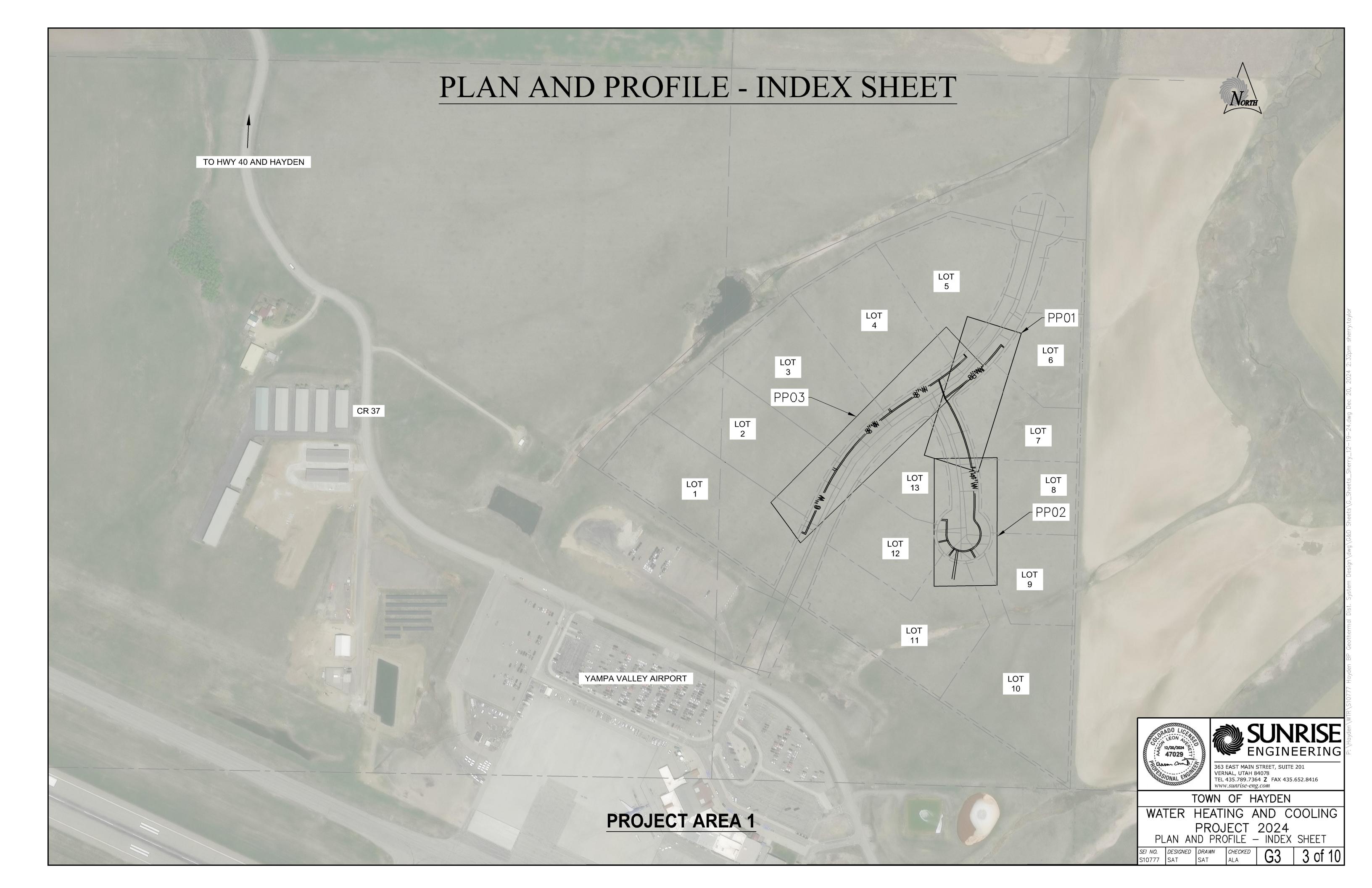
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WATER HEATING AND COOLING
PROJECT 2024
AREA MAP, LOCATION MAP AND SHEET INDEX

AREA MAP, LOCATION MAP AND SHEET INDEX SEI NO. DESIGNED DRAWN CHECKED ALA G2 2 of 10



ABBREVIATIONS

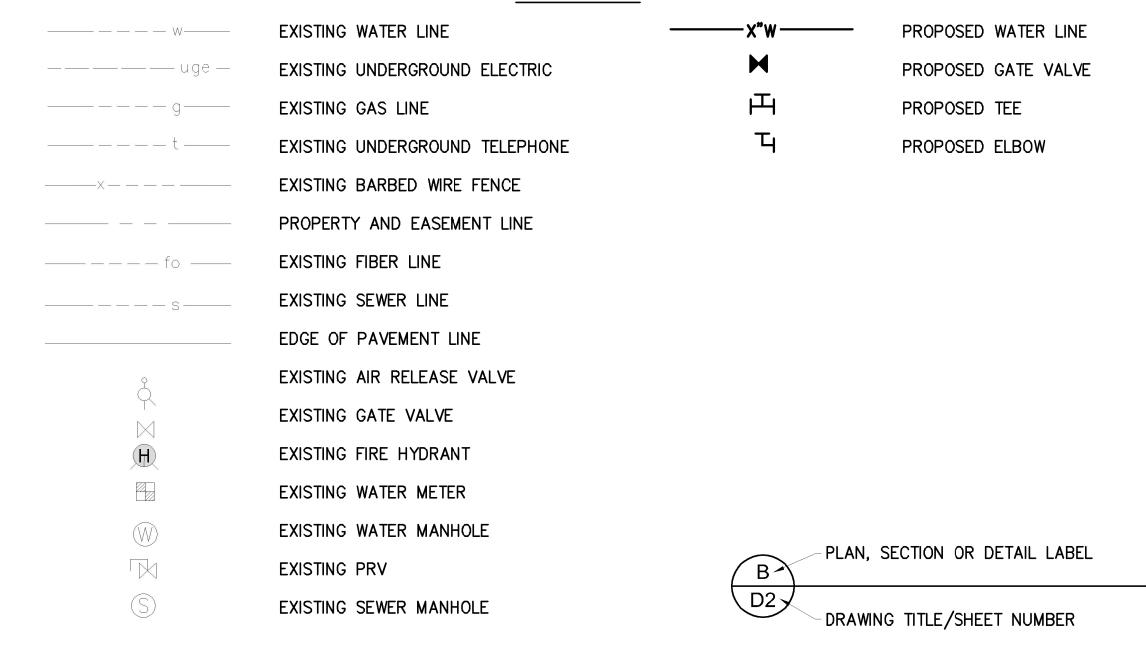
AGGREGATE BASE COURSE AC ASPHALT CONCRETE BACK OF CURB BCF BRASS CAP FLUSH BCHH BRASS CAP IN HAND HOLE BCR BEGIN CURB RETURN ВМ BENCHMARK BTM BOTTOM CATCH BASIN CENTERLINE CMP CORRUGATED METAL PIPE CO CLEAN OUT CONC CONCRETE CONST CONSTRUCTION CY CUBIC YARD D/W DRIVEWAY DWG DRAWING DTL DETAIL ECR END CURB RETURN ELEV ELEVATION EP EDGE OF PAVEMENT **ESMT** EASEMENT EX, EXIST **EXISTING** FC FACE OF CURB FF FINISHED FLOOR FG FINISHED GRADE FH FIRE HYDRANT FLANGE FND FOUND F0 FIBER OPTIC FPS FEET PER SECOND FOOT, FEET GAS, GUTTER, GRADE GRADE BREAK GPM GALLONS PER MINUTE HDPE HIGH DENSITY POLYETHYLENE PIPE HP HIGH POINT HW HIGHWATER IN. INCH, INCHES INV INVERT **IRRIG** IRRIGATION LENGTH LINEAR FEET LEFT MANHOLE MECHANICAL JOINT MUTE MULTI-USE TRAIL EASEMENT NORTH NOT APPLICABLE NOT IN CONTRACT NUMBER OVERHEAD ELECTRIC **OPENING** PROPERTY LINE PÁE PUBLIC ACCESS EASEMENT PC POINT OF CURVATURE PCC POINT OF COMPOUND CURVE PCC PORTLAND CEMENT CONCRETE PRC POINT OF REVERSE CURVE PΤ POINT OF TANGENCY PUAE PUBLIC UTILITY & ACCESS EASEMENT PUBLIC UTILITY EASEMENT PUE PVI POINT OF VERTICAL INTERSECTION RADIUS R/W RGRCP RIGHT-OF-WAY RUBBER GASKETED REINFORCED CONCRETE PIPE RJ RESTRAINED JOINT RT RIGHT SEWER, SLOPE, SOUTH S/M SAWCUT AND MATCH SDMH STORM DRAIN MANHOLE SF SQUARE FEET SSMH SANITARY SEWER MANHOLE STA STATION STANDARD STD SWK SIDEWALK SQUARE YARD TAN TANGENT TOP BACK OF CURB TBC TOP OF CURB T, TEL TELEPHONE TRUE LENGTH TYP TYPICAL UGE UNDERGROUND ELECTRIC VNAE VEHICLE NON-ACCESS EASEMENT VOLUME REQUIRED VOLUME PROVIDED

WATER, WEST, WITH

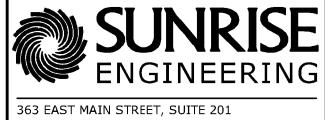
TRANSFORMER

XFMR

LEGEND







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TOWN OF HAYDEN
WATER HEATING AND COOLING

PROJECT 2024
ABREVIATIONS AND LEGEND

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GENERAL NOTES

- UNLESS OTHERWISE STATED, MINIMUM PIPELINE BURY DEPTH SHALL BE 9' TO TOP OF PIPE. PIPELINE SHALL BE OFFSET A MINIMUM OF 6' FROM ALL ROADWAY SHOULDERS. PIPELINES SHALL BE INSTALLED AT THE LOCATION AND DEPTH REQUIRED BY THE PLANS AND / OR AS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOT MOVE THE PLANNED ALIGNMENT OF ANY GEOTHERMAL WATER PIPELINE WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.
- 2. ALL GATE VALVES SHALL BE THE SAME SIZE AS THE PIPELINE TO WHICH THEY CONNECT UNLESS OTHERWISE NOTED.
- ANY DEBRIS OR EXCESS MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR. CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR DISPOSAL SITES AT WHICH SAID MATERIAL MAY BE LAWFULLY WASTED. FINAL GRADE OF DISTURBED AREAS IS SUBJECT TO THE ENGINEER'S AND OWNER'S APPROVAL AND IS TO BE DONE IN A NEAT WORKMANLIKE MANNER.
- 4. NORMAL POT-HOLING TO LOCATE EXISTING PIPELINES IN THE NEW CONSTRUCTION ZONE WILL BE INCLUDED AS PART OF THE PRICE OF PIPELINE INSTALLATION. SUBSURFACE INVESTIGATION IS INCLUDED IN THE BID SCHEDULE AND IS ANTICIPATED TO BE USED IN AREAS WHERE EXSITING UTILITIES MAY REQUIRE ADJUSTMENTS TO THE PROPOSED PLANS.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES PRIOR TO CONSTRUCTION. ALL SUBSURFACE INVESTIGATION OF UTILITIES NEEDS TO OCCUR 72 HOURS PRIOR TO CONSTRUCTION OF PIPELINE AT THAT LOCATION.
- 6. AN EFFORT HAS BEEN MADE TO SHOW THE EXISTING SYSTEM AND THE PROPOSED IMPROVEMENTS AS ACCURATELY AS POSSIBLE, ALL PIPELINE LOCATIONS, SIZES AND TYPES ARE SHOWN ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER. HOWEVER, THE ACTUAL FIELD CONDITIONS MAY VARY. ADDITIONAL WORK MAY BE REQUIRED AND LIKEWISE PROPOSED WORK MAY BE ELIMINATED BASED ON ACTUAL FIELD CONDITIONS. CONTRACTOR MUST VERIFY ACCURACY WITH BLUESTAKES.
- 7. ALL FITTINGS I.E. TEES, ELBOWS, CROSSES, ETC. ARE NOT SHOWN. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONSTRUCT THE SYSTEM AS SHOWN, NO EXTRA PAYMENT SHALL BE MADE FOR FITTINGS NOT SHOWN, BUT REQUIRED TO MEET PROJECT AND MANUFACTURER SPECIFICATIONS.
- 8. WHERE PROJECT GOES THROUGH OR ADJACENT TO PRIVATE PROPERTY, THE CONTRACTOR SHALL OBTAIN A PROPERTY OWNER'S RELEASE BEFORE RETENTION CAN BE RELEASED.
- 9. FITTINGS LOCATED IN INTERSECTIONS AND/OR ADJACENT TO VALVES SHALL BE ATTACHED TO THE VALVES VIA DI FLANGE TO FLANGE
- 10. ALL BURIED FITTINGS, BOLT PACKS (ALL METAL) SHALL BE WRAPPED IN ACCORDANCE W/ SECTION 02222.2.3. EXCLUDING ACTUAL DIP DESIGNATED ON THE PLANS.
- 11. THE CONTRACTOR SHALL PROVIDE LOCATING EQUIPMENT AND LABOR NECESSARY TO DEMONSTRATE THAT THE TRACER WIRE FUNCTIONS AS INTENDED. VERIFICATION OF TRACER WIRE MUST BE COMPLETED WITHIN 1 WEEK OF BACKFILL FOR EACH SECTION BETWEEN ISOLATION VALVES. VERIFICATION OF TRACER WIRE MUST ALSO PROVE UTILITY SEPARATION REQUIRED BY PLAN SET AND SPECIFICATIONS.
- 12. A FLUSHING PLAN MUST BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO ANY FLUSHING OF ANY LINES. THE PLAN MUST INCLUDE WATER SOURCES, WATER DISCHARGE LOCATIONS, DRAINAGE ROUTES, AND SCHEDULE OF EACH SECTION TO BE FLUSHED.
- 13. FENCE LINES TO BE REMOVED AND REPLACED TO FACILITATE WATERLINE INSTALLATION ARE INDICATED ON THE PLAN SHEETS.
- 14. CONTRACTOR SHALL OBTAIN FINAL APPROVAL OF THE SURFACE CONDITIONS ALONG THE ALIGNMENT FROM THE OWNER AND ENGINEER.
- 15. NO CONSTRUCTION WORK WILL BE ALLOWED ON SUNDAYS OR HOLIDAYS OBSERVED BY THE TOWN OF HAYDEN OR THE STATE OF COLORADO UNLESS OTHERWISE AGREED UPON BY THE OWNER AND CONTRACTOR.
- 16. NO CONSTRUCTION WORK WILL BE ALLOWED BEFORE 7AM OR AFTER 7PM UNLESS OTHERWISE AGREED UPON BY THE OWNER AND CONTRACTOR.
- 17. ALL PIPELINES ARE TO BE CONSTRUCTED WITHIN TOWN OWNED LAND OR ROW ANY EXCEPTIONS ARE NOTED ON THE PLANS OR MUST BE APPROVED BY THE ENGINEER.
- 18. PARCEL LINES SHOWN ON PLAN SHEETS ARE BASED ON GIS DATA AND ARE SHOWN FOR REFERENCE ONLY, WITH THE INTENDED PURPOSE OF ILLUSTRATING GENERAL LOCATION.
- 19. ALL TREE TRIMMING AND REMOVAL SHALL BE DONE IN A NEAT, WORKMANLIKE MANNER.
- 20. ALL WORK, TESTING AND MATERIALS SHALL CONFORM TO THE PROJECT CONSTRUCTION PLANS, SPECIFICATIONS, DETAILS, AND CONTRACT DOCUMENTS UNLESS SPECIFICALLY STATED OTHERWISE IN THESE PLANS. ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THESE PLANS AND SPECIFICATIONS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- 21. AN APPROVED SET OF PLANS AND SPECIFICATIONS SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES AS WELL AS A COPY OF ALL PERMITS AND AGREEMENTS.
- 22. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING PERMITS, RENEWAL OF LAPSED PERMITS, AND OBTAINING ANY NEW PERMITS.
- 23. CONTRACTOR SHALL PROVIDE FOR INSPECTIONS AND TESTING AS

REQUIRED BY THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COORDINATE TESTING AND NOTIFY THE ENGINEER 24 HOURS PRIOR TO TESTS. ALL TESTING IS TO BE CONDUCTED BY A PROPERLY CERTIFIED. INDEPENDENT 3RD PARTY.

- 24. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER AT LEAST 24 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION. CONSTRUCTION CONCEALED WITHOUT THE REQUIRED INSPECTIONS SHALL BE SUBJECT TO EXPOSURE AT THE CONTRACTOR'S EXPENSE.
- 25. THE CONTRACTOR SHALL FOLLOW GUIDELINES AND REGULATIONS SET FORTH BY O.S.H.A. SUNRISE ENGINEERING, INC. WILL NOT BE RESPONSIBLE FOR JOB-SITE SAFETY PROCEDURES OR CONDITIONS.
- 26. THE CONTRACTOR IS RESPONSIBLE FOR THE NOTIFICATION OF THE PROPER AUTHORITY (OR AUTHORITIES) IF THERE ARE OBSTRUCTIONS TO PROPOSED IMPROVEMENTS AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY EXISTING ITEM REMOVED TO FACILITATE CONSTRUCTION SHALL BE REPLACED IN THE SAME OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
- 27. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL ON AND AROUND THE CONSTRUCTION SITE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. ACCESS TO RESIDENTIAL BUILDINGS AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES.
- 28. REQUIRED STAGING AREA LOCATION SHALL BE COORDINATED WITH THE TOWN OF HAYDEN.
- 29. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS. AND TAKE WHATEVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES. NO WORK WILL BE CONSIDERED COMPLETE UNTIL ALL PAVEMENTS HAVE BEEN SWEPT CLEAN OF DIRT AND DEBRIS.
- 30. ANY AMBIGUITIES OR DEFICIENCIES DISCOVERED ON THESE PLANS ARE TO BE RESOLVED BY ENGINEER OR ITS APPOINTED REPRESENTATIVE. IF ANYONE MODIFIES THESE DRAWINGS OTHER THAN ENGINEER OR ITS APPOINTED REPRESENTATIVE, HE OR SHE IS SOLELY RESPONSIBLE FOR THOSE MODIFICATIONS.
- 31. ALL GATE VALES SHALL HAVE VALVE BOX EXTENSIONS UNLESS OTHERWISE AGREED UPON BY THE OWNER AND CONTRACTOR.
- 32. REVEGETATION SHALL INCLUDE APPLICATION OF NATIVE OR LAWN SEED, FERTILIZER, MULCH, AND CRIMPING OR OTHERWISE ANCHORING OF THE MULCH IN PLACE. THE RE-SPREADING OF TOPSOIL TO A 4"DEPTH ON DISTURBED AREAS TO BE RESEEDED AND PREPARATION OF TOPSOIL FOR SEEDING (TRACKING, TILLING, ETC. AS NECESSARY) SHALL ALSO BE INCLUDED IN THIS SPECIFICATION IF NOT FOUND ELSEWHERE, SEE TOWN OF HAYDEN SPEC 2821.
- 33. ALL PERSONAL TO PERFORM FUSION WELDS WILL PROVIDE STANDARDIZED TRAINING/CERTIFICATION TO INSPECTOR. PIPE VENDOR AND/OR MACHINE MANUFACTURER WILL BE REQUIRED TO PERFORM AN ONSITE TRAINING/CERTIFICATION WITH CONTRACTOR.
- 34. CONTRACTOR SHALL USE TOWN OF HAYDEN CITY STANDARD DETAILS UNLESS OTHERWISE SPECIFIED BY PUBLIC WORKS DIRECTOR OR ENGINEER.

DESIGN CRITERIA

INTRODUCTION / SCOPE OF WORK

PIPELINE:

DETERMINED BY CMTA AND BEDROCK ENERGY RANGING FROM 14" MAINLINE TO 8" SPURS AND 6" SERVICE LATERALS, ALL PIPES WILL BE HDPE SDR 11. 6'-7' MINIMUM BURY DEPTH ON MAINLINES WHERE NOT CROSSING UTILITIES. 9-10' BURY DEPTH ASSUMED TO BE UNDER NEW UTILITIES WHERE CROSSINGS OCCUR. MAIN FLOWS: PROVIDED BY CMTA

BUILT OUT SYSTEM EXPECTED PEAK FLOW: 2500 GPM BUILT OUT SYSTEM EXPECTED AVERAGE FLOW: 625 GPM 1 LATERAL ON SYSTEM FLOW: 50-200 GPM LATERAL FLOWS: PROVIDED BY CMTA AVERAGE BUILDING SIZE: 50,000 SF MAX FLOW: 500 GPM AVG BUILDING PEAK: 200 GPM

AVG BUILDING AVERAGE FLOW: 50 GPM

EXISTING CONDITIONS

PIPELINE:

THE PROJECT AREA INCLUDES 6', 2" AND 4" WATERLINES, FIBER, IRRIGATION, GAS, AND OVERHEAD ELECTRICAL

DESIGN REQUIREMENTS

THE MINIMUM REQUIREMENTS USED TO GENERATE THIS DESIGN ARE AS FOLLOWS:

- THE EXISTING SYSTEM WAS MODELED USING AQUATWIN SOFTWARE.
- PRESSURES PROVIDED BY CMTA: 150' HEAD OR APPROX. 65 PSI, PROVIDED BY PUMP AT WELL PLANT.
- TEMPERATURES BETWEEN 40-65 DEG F

PROJECT CONTACTS

PROJECT CONTACT INFORMATION



<u>CIVIL ENGINEER:</u> SUNRISE ENGINEERING RRYAN MEIER (435) 216-9209



PUBLIC WORKS: TOWN OF HAYDEN BRYAN RICHARDS (970) 276-3741



ATMOS ENERGY DON CRANE (970) 846-1505



ELECTRIC: YAMPA VALLEY ELECTRIC LARRY BALL NATHAN FRENTRESS (970) 879-1160



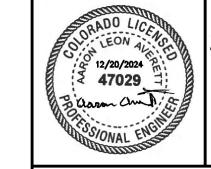
CENTURY LINK JASON SHARPE (970) 328-8290



CHARTER COMMUNICATIONS (970) 424-5509



OTHER: COMCAST ANDY NEWBY (970) 977-9004



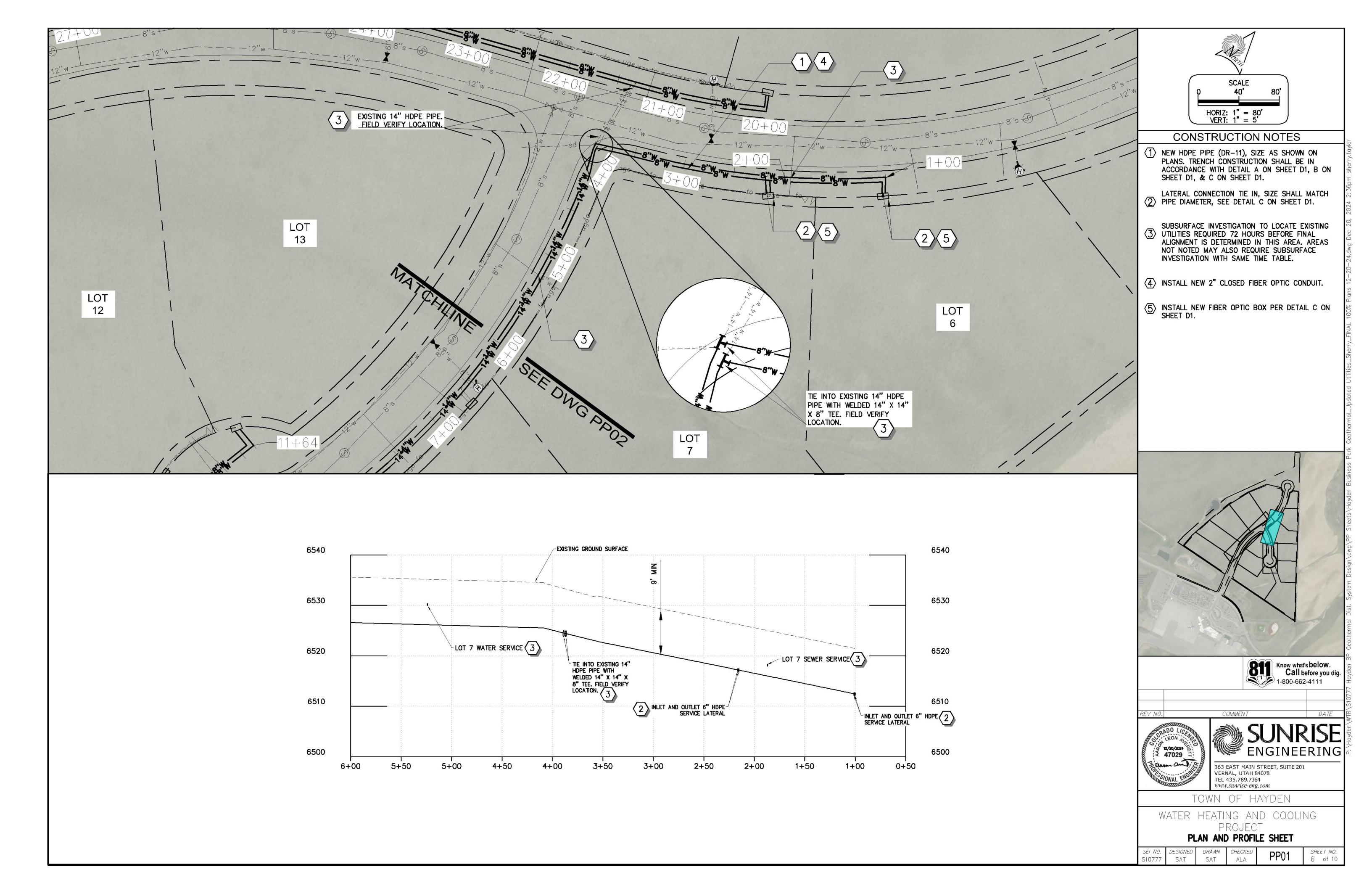
363 EAST MAIN STREET, SUITE 201 VERNAL, UTAH 84078 TEL 435.789.7364 **Z** FAX 435.652.8416

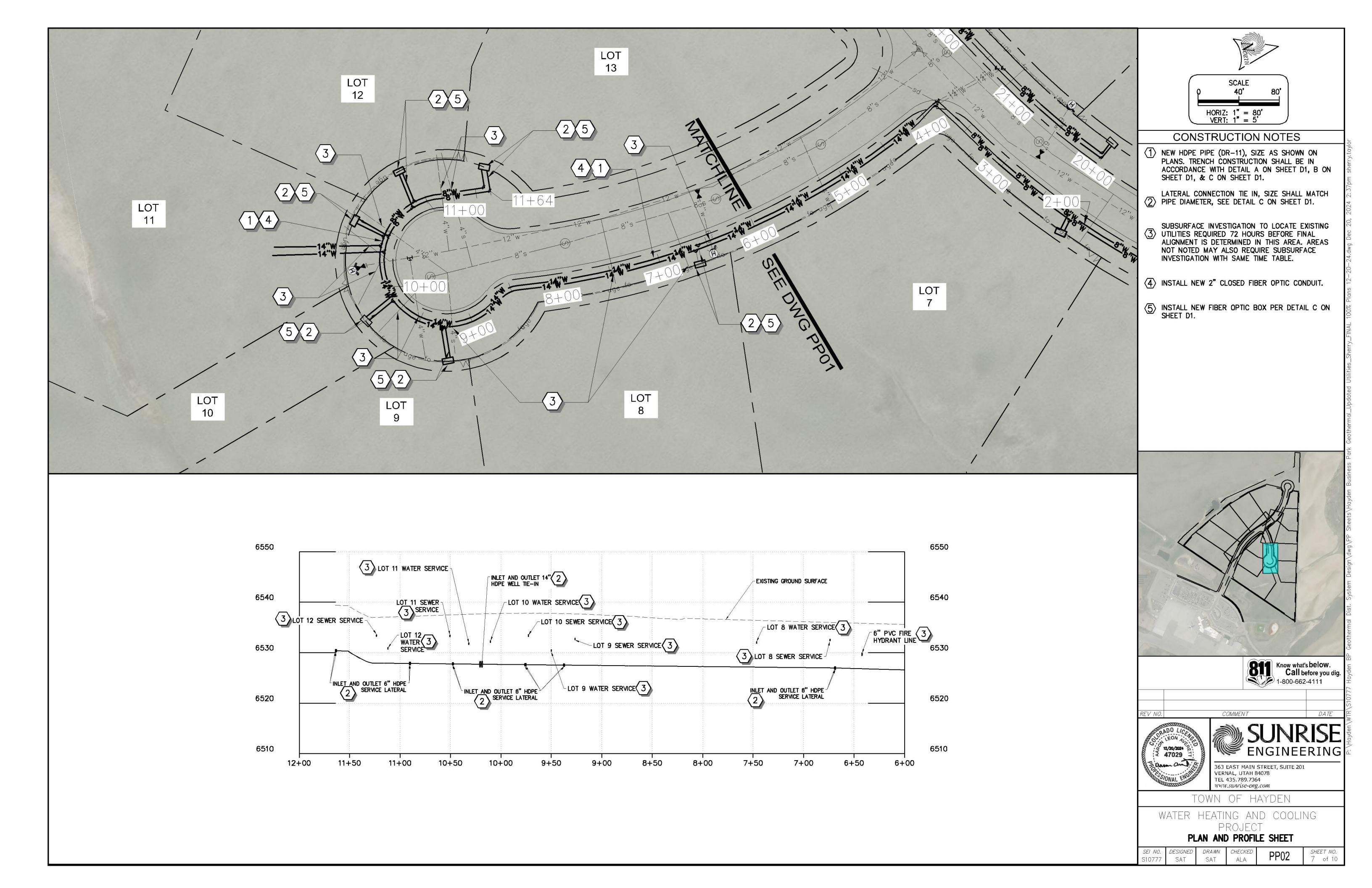
TOWN OF HAYDEN

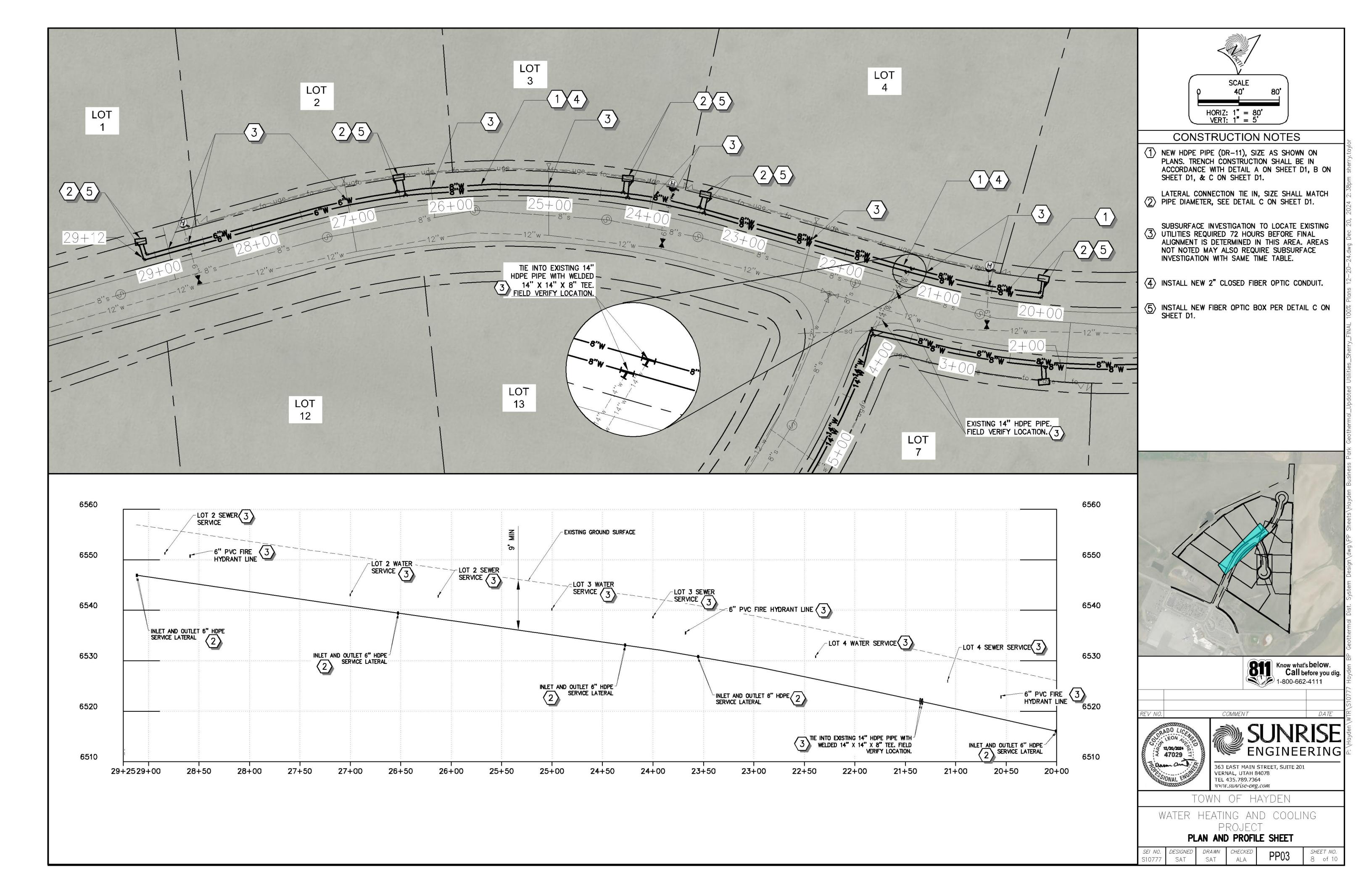
WATER HEATING AND COOLING PROJECT 2024 GENERAL NOTES AND DESIGN CRITERIA

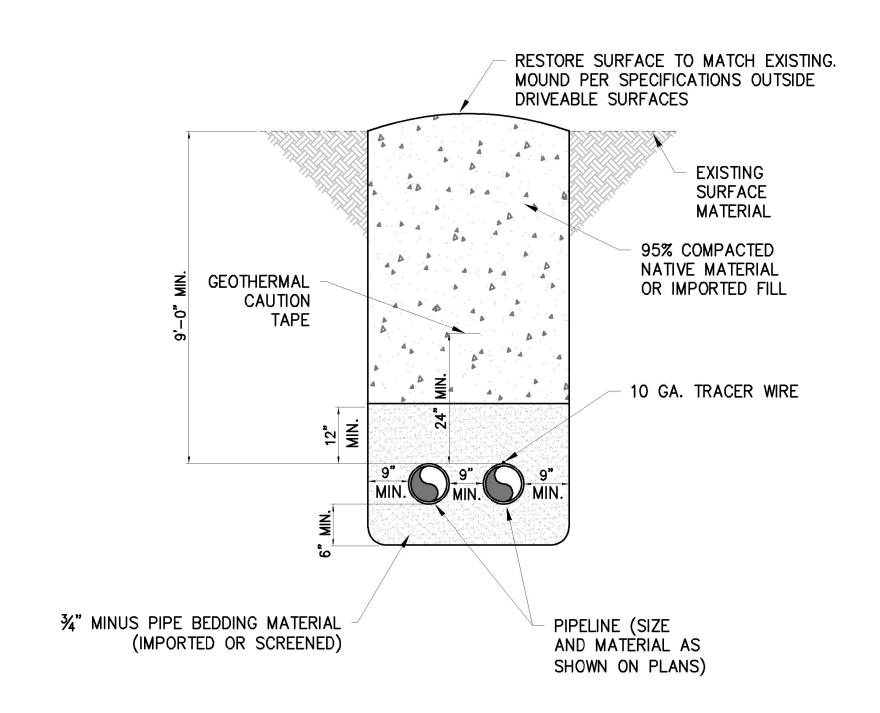
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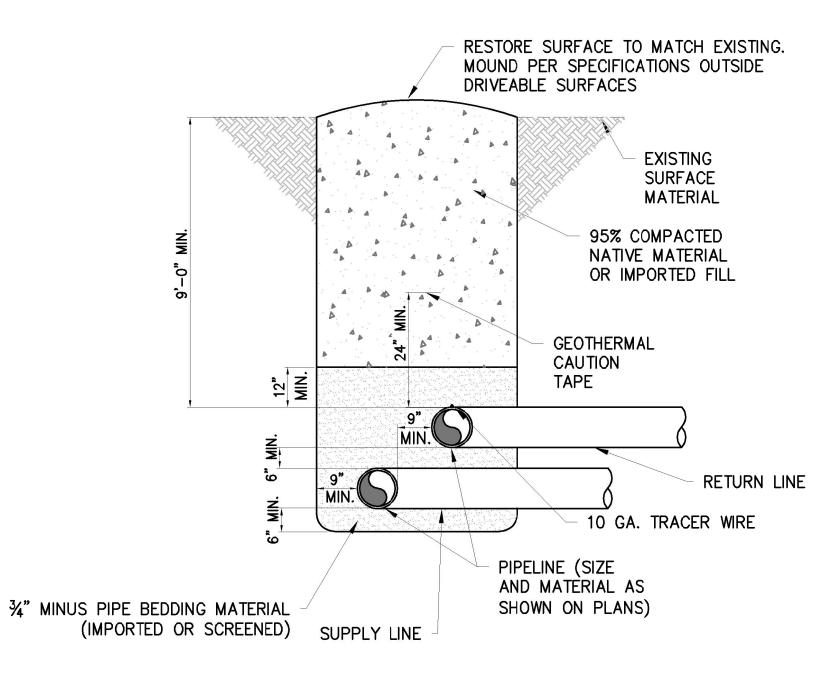




DETAIL - ROAD SHOULDER/ CROSS FIELD TRENCH TYP NO SCALE

NOTES:

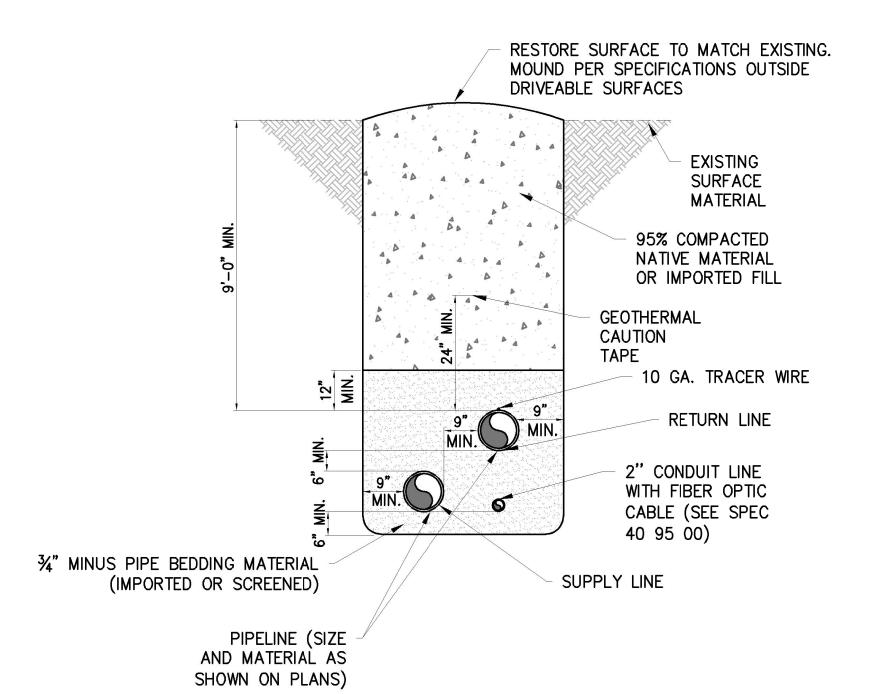
- SURFACE IMPROVEMENTS WILL VARY, REPLACE TO MATCH EXISTING.
- 95% COMPACTION IN ALL ROADWAYS AND SHOULDERS. 3. RESEADING ON CROSS COUNTRY SECTIONS AS REQUIRED IN SPECIFICATIONS.



DETAIL - ROAD SHOULDER TRENCH LATERAL CONNECTION TYP NO SCALE

NOTES:

- SURFACE IMPROVEMENTS WILL VARY, REPLACE TO MATCH EXISTING.
- 2. 95% COMPACTION IN ALL ROADWAYS AND SHOULDERS.
- 3. RESEADING ON CROSS COUNTRY SECTIONS AS REQUIRED IN SPECIFICATIONS.

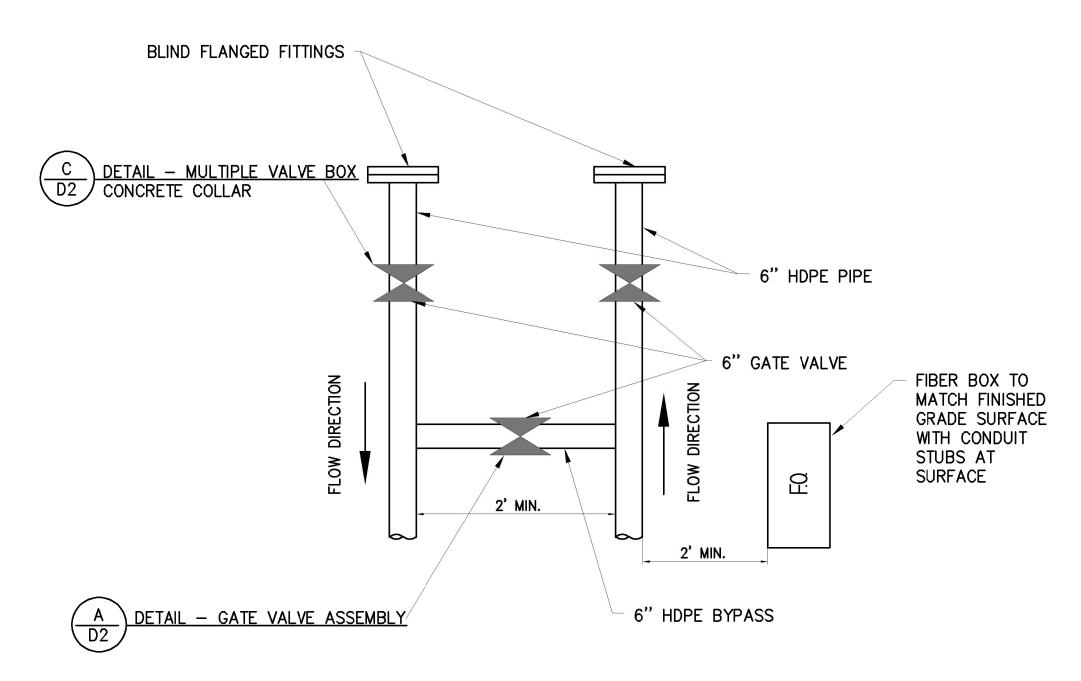


DETAIL - ROAD SHOULDER/ CROSS FIELD TRENCH

TYP NO SCALE

NOTES:

- SURFACE IMPROVEMENTS WILL VARY, REPLACE TO MATCH EXISTING.
- 2. 95% COMPACTION IN ALL ROADWAYS AND SHOULDERS.
- 3. RESEADING ON CROSS COUNTRY SECTIONS AS REQUIRED IN SPECIFICATIONS.
- 4. BRING 2" CONDUIT LINE TO SURFACE OF FIBER BOX ADJACENT TO LATERAL CONNECTION. SEE DETAIL C/D1.



DETAIL - LATERAL CONNECTION DETAIL TYP NO SCALE

NOTES:

- ALL VALVES WILL BE LEFT OPEN FOR START UP THEN CLOSED UNTIL DEVELOPED.
- BRING 2" CONDUIT LINE TO SURFACE OF FIBER BOX. RETURN FIBER OPTIC LINE BACK TO MAIN LINE TRENCH.
- EACH BYPASS VALVE SHALL HAVE TRACER WIRE RAN THROUGH HOLE IN VALVE BOX PER DETAIL A/D2.



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TOWN OF HAYDEN

WATER HEATING AND COOLING PROJECT 2024

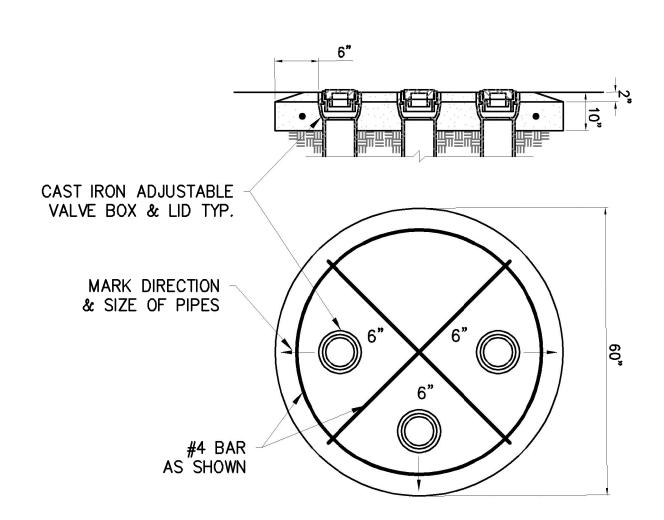
DETAIL SHEET

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NOTES:

TYP NO SCALE

- 1. ALL VALVES SHALL BE RESTRAINED ACCORDING TO DRAWING AND SHALL BE TREATED AS A DEAD END IN BOTH DIRECTIONS.
- 2. FOR VALVES OVER 48" DEEP ADD VALVE STEM AND VALVE BOX EXTENSIONS AS NECESSARY FOR NORMAL OPERATION OF VALVE KEY.
- 3. TRACER WIRE SHALL BE BROUGHT INTO THE VALVE BOX THROUGH HOLE AT BELL. COIL 2' OF TRACER WIRE INSIDE VALVE BOX BELL SECTION.
- 4. RESTRAIN VALVES AT TIE-IN LOCATIONS PER DETAIL B/D2

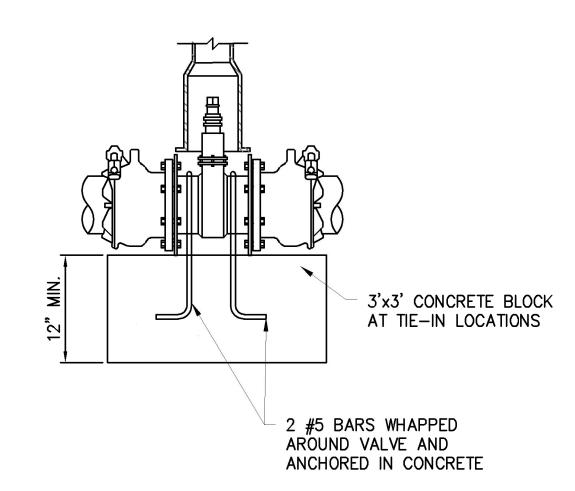


DETAIL - MULTIPLE VALVE BOX CONCRETE COLLAR

TYP NO SCALE

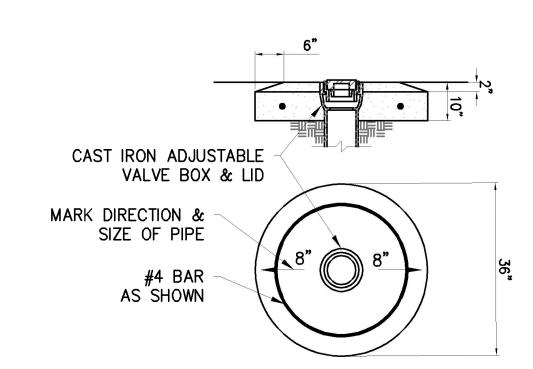
NOTES:

- SIZES ARE FOR EXAMPLE ONLY. SHOW ACTUAL CONFIG FOR EACH SITUATION.
- 2. MINIMUM 6" CLEARANCE FROM ALL UTILITIES ALL SIDES OF VALVE BOX.



DETAIL - GATE VALVE RESTRAINT AT TIE-IN LOCATIONS

TYP NO SCALE



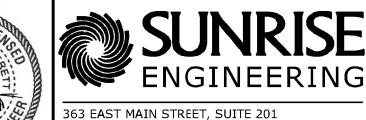
DETAIL - VALVE BOX CONCRETE COLLAR

TYP NO SCALE

NOTES:

- 1. SIZES ARE FOR EXAMPLE ONLY. SHOW ACTUAL CONFIG FOR EACH SITUATION.
- 2. WHERE A CLUSTER OF 2 OR MORE VALVE BOXES ARE LOCATED, PLACE IN 60"x60" CONCRETE COLLAR AS SHOWN IN DETAIL C/D2.
- SIZES ARE FOR EXAMPLE ONLY. SHOW ACTUAL CONFIG FOR EACH SITUATION.
- CENTER VALVE BOX IN COLLAR.
- 5. STAMP VALVE CAP WITH GT TO REPRESENT GEOTHERMAL LINES.





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WATER HEATING AND COOLING PROJECT 2024 DETAIL SHEET

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