

CITY OF GRAND JUNCTION

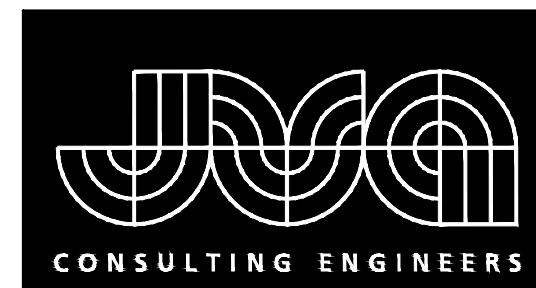
UPPER KANNAH CREEK WATERLINE REPLACEMENT

GRAND JUNCTION, CO

CONSTRUCTION DOCUMENTS

CONTACTS

| | | |
|--------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------|
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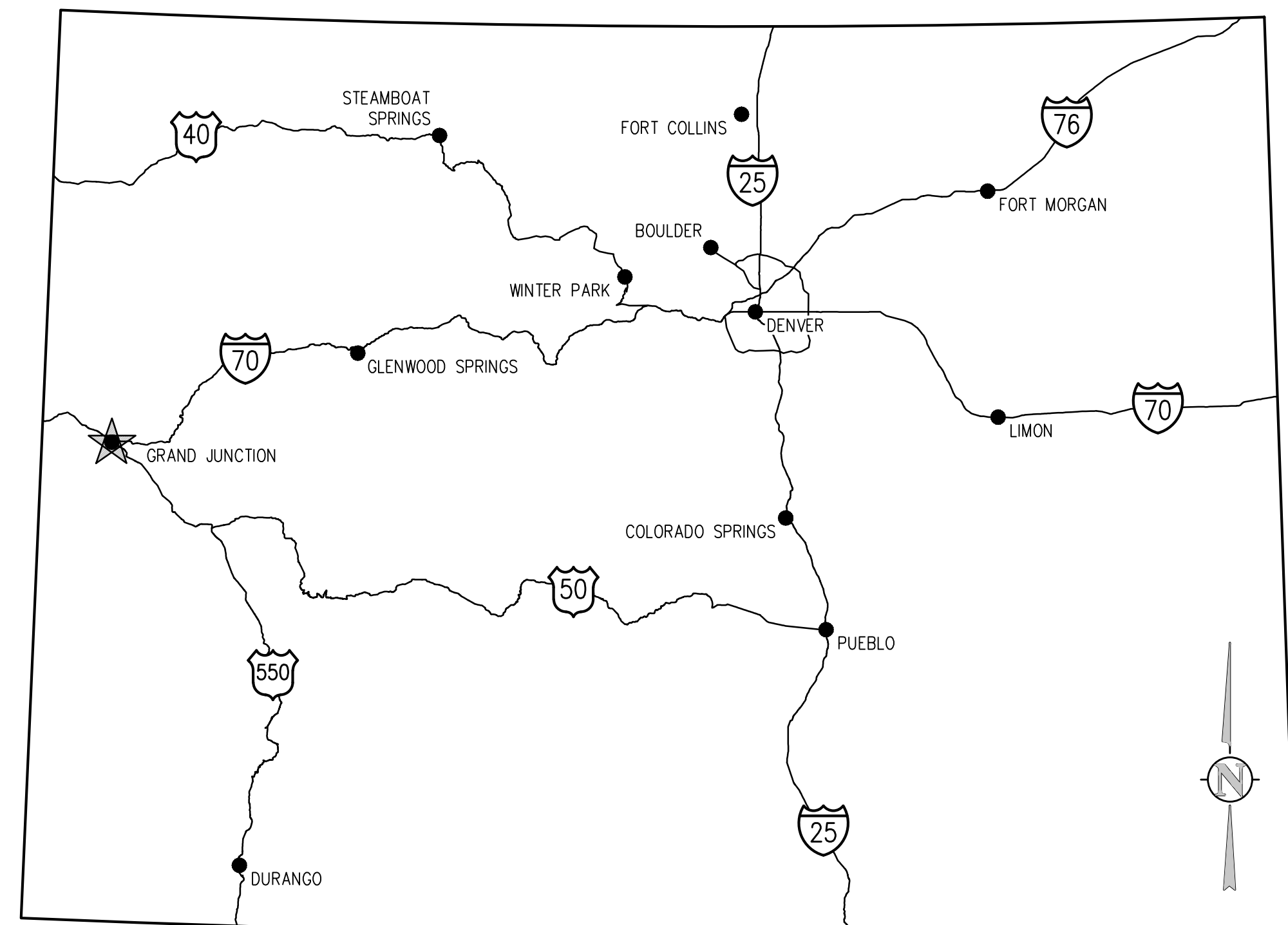
MARCH 2023

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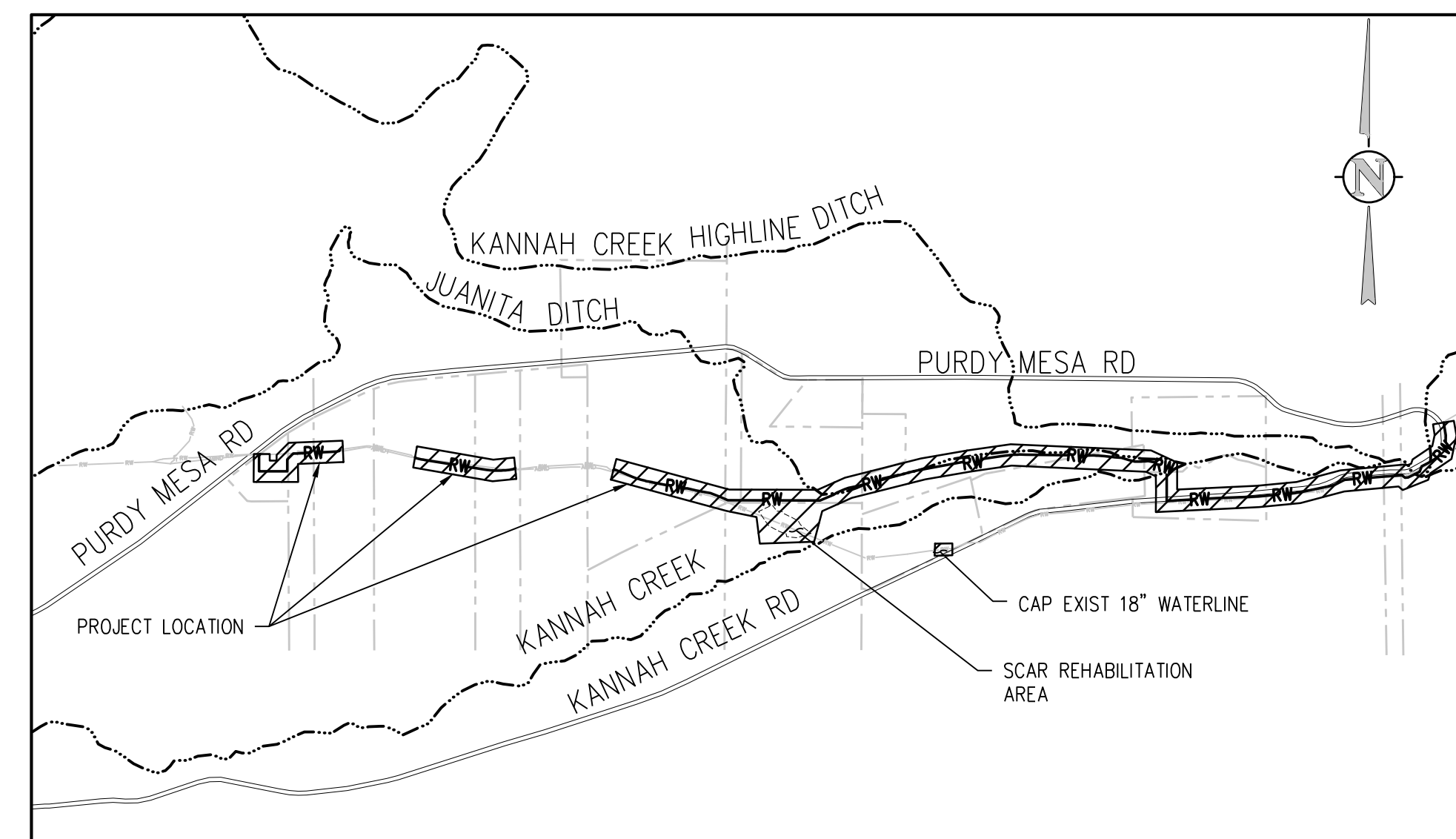
JVA, Inc.

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VICINITY MAP
NTS



PROJECT LOCATION MAP
NTS

ABBREVIATIONS

| | | | | | |
|--------|---------------------------------------------------------------|--------|---------------------------------------------------|--------|---------------------------------|
| AASHTO | AMERICAN ASSOC. OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS | HVAC | HEATING, VENTILATION, AIR CONDITIONING | VERT | VERTICAL |
| ABAN | ABANDON | HWY | HIGHWAY | VC | POINT OF VERTICAL CURVATURE |
| AC | ASPHALTIC CONCRETE PAVING | HWM | HIGH WATER LINE | VCP | VITRIFIED CLAY PIPE |
| ADDL | ADDITIONAL | HYD | HYDRANT | W | WIDE OR WIDTH |
| ADDM | ADDENDUM | INCL | INCLUDED | W/ | WITH |
| ADJ | ADJUSTABLE | ID | INSIDE DIAMETER | W/O | WITHOUT |
| AL | ALUMINUM | IN | INLET | WQCE | WATER QUALITY CONTROL ELEVATION |
| ALT | ALTERNATE | INSUL | INSULATION | WSE | WATER SURFACE ELEVATION |
| AMT | AMOUNT | INV | INVERT | WW | WASTEWATER |
| APPROX | APPROXIMATE | IRR | IRRIGATION | X SECT | CROSS SECTION |
| ARCH | ARCHITECTURAL | JTS | JOINTS | X FMR | ELECTRONIC TRANSFORMER |
| ARV | AIR RELIEF VALVE | | | YH | YARD HYDRANT |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS | | | | |
| ASPH | ASPHALT | KB | KICK BLOCK | | |
| ASSY | ASSEMBLY | KO | KNOCKOUT | | |
| ASYM | ASYMMETRICAL | KPL | KICK PLATE | | |
| AUTO | AUTOMATIC | KWY | KEYWAY | | |
| AVG | AVERAGE | | | | |
| AWWA | AMERICAN WATER WORKS ASSOC. | | | | |
| B | BOREHOLE | L | LEFT OR LITER | | |
| BC | BACK OF CURB | LSCAPE | LANDSCAPE(ING) | | |
| BFV | BUTTERFLY VALVE | LF | LINEAR FOOT | | |
| BG | FINISHED GRADE ADJACENT TO BOTTOM OF WALL | LP | LOW POINT | | |
| BLDG | BUILDING | LT | LIGHT | | |
| BLK | BLOCK | LWL | LOW WATER LEVEL | | |
| BM | BENCH MARK | | | | |
| BMP | BEST MANAGEMENT PRACTICE | MAINT | MAINTENANCE | | |
| BS | BACKSIGHT | MAN | MANUAL | | |
| BOS | BOTTOM OF STEP | MATL | MATERIAL | | |
| BOT | BOTTOM | MAX | MAXIMUM | | |
| BSMT | BASEMENT | ME | MATCH EXISTING | | |
| BVMT | BEGIN VERTICAL CURVE ELEVATION | MECH | MECHANICAL | | |
| BVCS | BEGIN VERTICAL CURVE STATION | MFR | MANUFACTURER | | |
| BW | BOTTOM OF WALL | MH | MANHOLE | | |
| | | MIN | MINIMUM | | |
| | | MISC | MISCELLANEOUS | | |
| | | MJ | MECHANICAL JOINT | | |
| CB | CATCH BASIN | N | NORTH | | |
| CCW | COUNTER CLOCKWISE | NA | NOT APPLICABLE | | |
| CDOT | COLORADO DEPARTMENT OF TRANSPORTATION | NIC | NOT IN CONTRACT | | |
| CIP | CAST IRON PIPE | NPT | NATIONAL PIPE THREAD | | |
| CJ | CONSTRUCTION JOINT | NTS | NOT TO SCALE | | |
| CL | CENTER LINE OR CHAIN LINK | | | | |
| CLR | CLEAR | | | | |
| CMP | CORRUGATED METAL PIPE | OC | ON CENTER | | |
| CMU | CONCRETE MASONRY UNIT | OD | OUTSIDE DIAMETER | | |
| CO | CLEANOUT | OD | OPPOSITE | | |
| CONC | CONCRETE | OPP | OPPOSITE | | |
| CONST | CONSTRUCTION | OPT | OPTIONAL | | |
| CONT | CONTINUOUS(ATION) | | | | |
| COR | CORNER | PC | POINT OF CURVATURE | | |
| CR | CONCENTRIC REDUCER | PCO | PRESSURE CLEAN OUT | | |
| CTR | CENTER | PCR | POINT OF CURVE RETURN | | |
| CY | CUBIC YARDS | PI | POINT OF INTERSECTION | | |
| | | PVI | POINT OF VERTICAL INTERSECTION | | |
| DEMO | DEMOLITION | PL | PROPERTY LINE | | |
| DIA | DIAMETER | PE | POLYETHYLENE | | |
| DIAG | DIAGONAL | PREFAB | PREFABRICATED | | |
| DIP | DUCTILE IRON PIPE | PRELM | PRELIMINARY | | |
| DOM | DOMESTIC | PREP | PREPARATION | | |
| DN | DOWN | PROP | PROPOSED | | |
| DR | DRAIN | PRV | PRESSURE REDUCING VALVE OR PRESSURE RELIEF VALVE | | |
| DWG | DRAWING | PSF | POUNDS PER SQUARE FOOT | | |
| DWL | DOWEL | PSI | POUNDS PER SQUARE INCH | | |
| | | PT | POINT OF TANGENCY | | |
| E | EAST | PV | PLUG VALVE | | |
| EA | EACH | PVC | POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE | | |
| ECC | ECCENTRIC | PWMT | PAVEMENT | | |
| EJ | EXPANSION JT | | | | |
| EL | ELEVATION | QTY | QUANTITY | | |
| ELB | ELBOW | | | | |
| ELEC | ELECTRICAL | | | | |
| ENGR | ENGINEER | R | RIGHT | | |
| EOP | EDGE OF PAVEMENT | RAD | RADIUS | | |
| EQ | EQUAL | RCP | REINFORCED CONCRETE PIPE | | |
| EQUIP | EQUIPMENT | RCP | ROOF DRAIN | | |
| EQUIV | EQUIVALENT | RE | REFERENCE | | |
| ESMT | EASEMENT | RECT | RECTANGULAR | | |
| EST | ESTIMATE | REINF | REINFORCE (D) (ING) (MENT) | | |
| EVCE | END VERTICAL CURVE ELEVATION | REQD | REQUIRED | | |
| EVCS | END VERTICAL CURVE STATION | ROW | RIGHT OF WAY | | |
| EW | EACH WAY | RW | RAW WATER | | |
| EXP JT | EXPANSION JOINT | | | | |
| EXIST | EXISTING | SAN | SANITARY | | |
| | | SD | STORM DRAIN | | |
| FND | FOUNDATION | SECT | SECTION | | |
| FES | FLARED END SECTION | SPD | STANDARD PROCTOR DENSITY | | |
| FF | FINISH FLOOR | SPEC | SPECIFICATION | | |
| FG | FINISH GRADE | SO | SQUARE | | |
| FH | FIRE HYDRANT | SO IN | SQUARE INCH | | |
| FL | FLOW LINE | SO FT | SQUARE FOOT | | |
| FN | FENCE | SO YD | SQUARE YARD | | |
| FOC | FACE OF CONCRETE | SS | SANITARY SEWER | | |
| FPM | FEET PER MINUTE | SST | STAINLESS STEEL | | |
| FPS | FEET PER SECOND | STA | STATION | | |
| FT | FEET | STD | STANDARD | | |
| FTG | FOOTING OR FITTING | STL | STEEL | | |
| | | STRUCT | STRUCTURAL | | |
| G | GAS | SVC | SERVICE | | |
| GA | GAUGE | SWMP | STORMWATER MANAGEMENT PLAN | | |
| GAL | GALLON | SYM | SYMMETRICAL | | |
| GALV | GALVANIZED | | | | |
| GCO | GRADE CLEANOUT | TBC | TOP BACK OF CURB | | |
| GIP | GALVANIZED IRON PIPE | TBM | TEMPORARY BENCH MARK | | |
| GND | GROUND | TEMP | TEMPORARY | | |
| GPD | GALLONS PER DAY | TC | FINISHED GRADE ADJACENT TO TOP OF WALL | | |
| GPM | GALLONS PER MINUTE | THK | THICK | | |
| GR | GRATE | TOB | TOP OF BANK | | |
| GRG | GRATING | TOC | TOP OF CONCRETE OR TOP OF CURB | | |
| GSP | GALVANIZED STEEL PIPE | TOS | TOP OF STEP | | |
| GV | GATE VALVE | TOT | TOTAL | | |
| | | TP | TEST PIT | | |
| H | HIGH | TW | TOP OF WALL OR CAP OF WALL | | |
| HB | HOSE BIB | TYP | TYPICAL | | |
| HE | HORIZONTAL ELLIPTICAL | | | | |
| HDWL | HEADWALL | UBC | UNIFORM BUILDING CODE | | |
| HNDRL | HAND RAIL | UCB | UNDERGROUND ELECTRIC | | |
| HORIZ | HORIZONTAL | UTL | UTILITY | | |
| HP | HIGH POINT | | | | |
| HR | HOUR | | | | |

DESIGN LEGEND

| | | | |
|--|-----------------------------|--|-------------------------------|
| | BENCHMARK | | GATE |
| | TEST PIT LOCATION | | FENCE |
| | BOREHOLE LOCATION | | FLOW LINE OF DITCH OR WASH |
| | BENCHMARK | | SLOPE ARROW |
| | TEE W/ KICK BLOCK | | PROPOSED SPOT ELEVATION |
| | BEND W/ KICK BLOCK | | EXIST SPOT ELEVATION |
| | END CAP W/ KICK BLOCK | | EXIST INDEX CONTOUR |
| | GATE VALVE | | EXIST INTERMEDIATE CONTOUR |
| | WATER METER | | PROPOSED INDEX CONTOUR |
| | FIRE HYDRANT | | PROPOSED INTERMEDIATE CONTOUR |
| | CURB STOP | | SIGN W/ POST |
| | RAW WATER | | HEAVY DUTY ASPHALT PAVING |
| | NON POTABLE WATER | | LIGHT DUTY ASPHALT PAVING |
| | SEDIMENT CONTROL LOG | | GRAVEL |
| | SILT FENCE | | PROPOSED BUILDING |
| | LIMITS OF SAWCUT | | GRASS |
| | LIMITS OF WORK | | SWAMP |
| | EASEMENT LINE | | |
| | PROPERTY LINE | | |
| | ADJACENT PROPERTY LINE/ROAD | | |
| | MATCHLINE | | |
| | INLET/OUTLET PROTECTION | | |



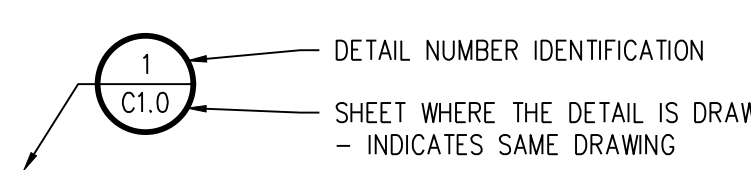
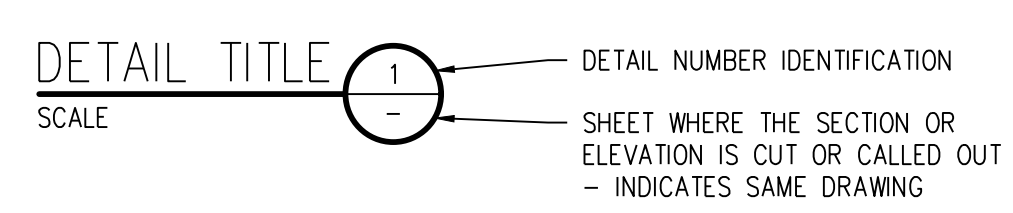
Know what's below. Call before you dig.

GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF GRAND JUNCTION, COLORADO DEPARTMENT OF TRANSPORTATION, MESA COUNTY FIRE PROTECTION REQUIREMENTS, AND APPLICABLE STATE AND LOCAL STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL HAVE IN POSSESSION AT THE JOB SITE AT ALL TIMES ONE (1) SIGNED COPY OF APPROVED PLANS, STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EMERGENCY ACCESS ROUTES TO THE SITE AND STRUCTURE AT ALL TIMES PER THE APPLICABLE CITY OF GRAND JUNCTION FIRE PROTECTION DISTRICT REQUIREMENTS. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR ANY VARIANCE TO THE ABOVE DOCUMENTS. NOTIFY ENGINEER OF ANY CONFLICTING STANDARDS OR SPECIFICATIONS. IN THE EVENT OF ANY CONFLICTING STANDARD OR SPECIFICATION, THE MORE STRINGENT OR HIGHER QUALITY STANDARD, DETAIL OR SPECIFICATION SHALL APPLY.
- THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARD SPECIFICATIONS, PERMITS, BONDS, ETC., WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK, INCLUDING, BUT NOT LIMITED TO A LOCAL AND STATE GROUNDWATER DISCHARGE AND COLORADO DEPARTMENT OF HEALTH AND ENVIRONMENT (CDPHE) STORMWATER DISCHARGE PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY OF GRAND JUNCTION AT LEAST 48 HOURS PRIOR TO START OF ANY CONSTRUCTION, PRIOR TO BACKFILLING, AND AS REQUIRED BY JURISDICTIONAL AUTHORITY AND/OR PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL CONTINUE WITH NOTIFICATIONS THROUGHOUT THE PROJECT AS REQUIRED BY THE STANDARDS AND SPECIFICATIONS.
- THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION BASED ON INFORMATION BY OTHERS. NOT ALL UTILITIES MAY BE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT SIZE, LOCATION AND TYPE OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT BEFORE COMMENCING WORK. THE ENGINEER AND/OR OWNER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS SHOWN ON PLANS. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES AND COSTS WHICH MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES AND DETERMINE THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO PROCEEDING WITH GRADING AND CONSTRUCTION. ALL WORK PERFORMED IN THE AREA OF UTILITIES SHALL BE PERFORMED AND INSPECTED ACCORDING TO THE REQUIREMENTS OF THE UTILITY OWNER. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAPPING ANY EXISTING UTILITY (INCLUDING DEPTH) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION, AND FOR RELOCATING ENCOUNTERED UTILITIES AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL CONTACT AND RECEIVE APPROVAL FROM CITY OF GRAND JUNCTION BEFORE RELOCATING ANY ENCOUNTERED UTILITIES. CONTRACTOR RESPONSIBLE FOR SERVICE CONNECTIONS, AND RELOCATING AND RECONNECTING AFFECTED UTILITIES AS COORDINATED WITH UTILITY OWNER AND/OR ENGINEER, INCLUDING NON-MUNICIPAL UTILITIES (TELEPHONE, GAS, CABLE, ETC., WHICH SHALL BE COORDINATED WITH THE UTILITY OWNER). THE CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER UPON DISCOVERY OF A UTILITY DISCREPANCY OR CONFLICT. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY NOTIFICATION CENTER OF COLORADO (1-800-922-1987, WWW.UCC.ORG). SEE SURVEY UTILITY LOCATION INFORMATION BELOW.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR OWNER AND/OR CITY APPROVAL AND PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FENCING, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR AGREES TO COMPLY WITH THE PROVISIONS OF THE TRAFFIC CONTROL PLAN AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," PART VI, FOR CONSTRUCTION SIGNAGE AND TRAFFIC CONTROL. ALL TEMPORARY AND PERMANENT TRAFFIC SIGNS SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WITH REGARD TO SIGN SHAPE, COLOR, SIZE, LETTERING, ETC. UNLESS OTHERWISE SPECIFIED. IF APPLICABLE, PART NUMBERS ON SIGNAGE DETAILS REFER TO MUTCD SIGN NUMBERS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS NOR EROSION ON ADJUTING PROPERTIES IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. GROUNDWATER TO BE PUMPED SHALL BE TESTED, PERMITTED, AND PUMPED PER THE STATE OF COLORADO AND LOCAL GROUNDWATER DISCHARGING PERMIT REQUIREMENTS.
- RIM AND GRATE ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE CONTRACTOR SHALL ADJUST RIMS AND OTHER IMPROVEMENTS TO MATCH FINAL PAVEMENT AND FINISHED GRADE ELEVATIONS.
- THE EXISTING AND PROPOSED ELEVATIONS OF FLATWORK, SIDEWALKS, CURBS, THRESHOLDS, PAVING, ETC. AS SHOWN HEREON ARE BASED ON EXTRAPOLATION OF FIELD SURVEY DATA, EXISTING CONDITIONS, AND DATA PROVIDED BY OTHERS. AT KANNAH CREEK CROSSING AND BRIDGE CROSSING, CONTRACTOR SHALL HAVE FORMWORK INSPECTED AND APPROVED BY OWNER, OWNER'S REPRESENTATIVE, OR ENGINEER PRIOR TO PLACING CONCRETE. MINOR ADJUSTMENTS, AS APPROVED, TO PROPOSED GRADES, INVERTS, ETC. MAY BE REQUIRED TO PREVENT PONDING OR SLOPE NOT IN CONFORMANCE WITH MUNICIPAL STANDARDS. ALL FLATWORK MUST PREVENT PONDING AND PROVIDE POSITIVE DRAINAGE AWAY FROM EXISTING AND PROPOSED BUILDINGS, WALLS, ROOF DRAIN OUTFALLS, ACROSS DRIVES AND WALKS, ETC., TOWARDS THE PROPOSED INTENDED DRAINAGE FEATURES AND CONVEYANCES.
- FINAL LIMITS OF REQUIRED ASPHALT 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.
- ANY EXISTING VALVE BOXES, ETC. TO BE PROTECTED AND TO REMAIN IN SERVICE. IF FEATURES EXIST, EXTEND OR LOWER TO FINAL SURFACE WITH LIKE KIND CAP WITH STANDARD CAST ACCESS LID WITH SAME MARKINGS. IN LANDSCAPED AREAS PROVIDE A CONCRETE COLLAR (18"x18"x6" THICK) AT ALL EXISTING AND PROPOSED MONITORING WELLS, CLEANOUTS, VALVE BOXES, ETC.
- PIPE LENGTHS AND HORIZONTAL CONTROL POINTS SHOWN ARE FROM CENTER OF STRUCTURES, END OF FLARED END SECTIONS, ETC. SEE STRUCTURE DETAILS FOR EXACT HORIZONTAL CONTROL LOCATION. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ACTUAL PIPE LENGTHS TO ACCOUNT FOR STRUCTURES AND LENGTH OF FLARED END SECTIONS.
- ALL SURPLUS MATERIALS, TOOLS, AND TEMPORARY STRUCTURES, FURNISHED BY THE CONTRACTOR, SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR. ALL DEBRIS AND RUBBISH CAUSED BY THE OPERATIONS OF THE CONTRACTOR SHALL BE REMOVED, AND THE AREA OCCUPIED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ITS ORIGINAL CONDITION, WITHIN 48 HOURS OF PROJECT COMPLETION, UNLESS OTHERWISE DIRECTED BY THE MUNICIPALITY OR OWNER'S REPRESENTATIVE.
- THE CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE LOCAL JURISDICTION, THE STATE OF COLORADO, MILE HIGH FLOOD DISTRICT "URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3", THE M-STANDARD PLANS OF THE COLORADO DEPARTMENT OF TRANSPORTATION, AND THE APPROVED EROSION CONTROL PLAN. JURISDICTIONAL AUTHORITY MAY REQUIRE THE CONTRACTOR TO PROVIDE ADDITIONAL EROSION CONTROL MEASURES AT THE CONTRACTOR'S EXPENSE DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE PLANS DO NOT FUNCTION AS INTENDED. THE CONTRACTOR IS RESPONSIBLE FOR PROHIBITING SILT AND DEBRIS LADEN RUNOFF FROM LEAVING THE SITE, AND FOR KEEPING ALL PUBLIC AREAS FREE OF MUD AND DEBRIS. THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING FINAL GRADES AND FOR REMOVING ACCUMULATED SEDIMENTATION FROM ALL AREAS INCLUDING SWALES AND DETENTION/WATER QUALITY AREAS. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR AREAS AS REQUIRED AFTER VEGETATION IS ESTABLISHED AND ACCEPTED BY OWNER AND MUNICIPALITY.
- PROTECT ALL TREES AND VEGETATION. PLACE CONSTRUCTION FENCING AT DRIP LINE OF TREES AND PLANTS NEAR THE WORK ZONE. DEEP WATER TREES WEEKLY. HAND EXCAVATION REQUIRED AT ROOT ZONES WHERE PROPOSED PAVING OR UTILITY WORK IS WITHIN DRIPLINE OF TREES.
- SURVEY INFORMATION:
 - BENCHMARK INFORMATION: TOPOGRAPHIC INFORMATION WAS PROVIDED BY WILLIAM H. SMITH & ASSOCIATES. SEE PARTIAL BOUNDARY SURVEY PLAT DATED 6/29/2022. THE DATUM IS MCLCS PER SURVEY. COORDINATE AND VERIFY ALL VERTICAL AND HORIZONTAL DATA SHOWN IN SURVEY AND REPORT ANY IRREGULARITIES OR DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.
 - BASIS OF BEARINGS: BEARINGS ARE BASED ON GRID NORTH OF THE MESA COUNTY LOCAL COORDINATE SYSTEM IN THE GVA ZONE, LOCALLY DETERMINED BY GNSS OBSERVATIONS ON THE MCLCS T1798 RECOVERED AND KNOWN AS THE WEST SIXTEENTH CORNER BETWEEN SECTION 31, TOWNSHIP 12 SOUTH, RANGE 97 WEST AND SECTION 6, TOWNSHIP 13 SOUTH, RANGE 97 WEST AND THE MCGVA P321 POINT NEXT TO OLD KANNAH CREEK ROAD IN SECTION 31, TOWNSHIP 2 SOUTH, RANGE 2 EAST WITH A BEARING OF SOUTH 82°37'34" EAST AND A MEASURED DISTANCE OF 35,750.850 FEET..
 - HORIZONTAL CONTROL INFORMATION: HORIZONTAL CONTROL COORDINATES ARE BASED UPON AND REFERENCED FROM THE FOLLOWING POINTS

| | | | |
|----------------------|-------------|-------------|---------------|
| MESA COUNTY CP-P321 | N -9038.77 | E 136259.66 | ELEV 4872.37' |
| MESA COUNTY CP-P322 | N -14196.92 | E 141153.87 | ELEV 4902.64' |
| MESA COUNTY CP-T1798 | N -4450.32 | E 171750.83 | ELEV 5783.42' |
 - SURVEY UTILITY LOCATION INFORMATION PER THE SURVEYOR: SUBSURFACE UTILITIES ARE SHOWN IN APPROXIMATE HORIZONTAL AND VERTICAL LOCATIONS CONSISTENT WITH ASCE 38-02 QUALITY LEVEL "B" (INFORMATION OBTAINED BY THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND HORIZONTAL POSITION OF VIRTUALLY ALL UTILITIES WITHIN THE PROJECT LIMITS. THE INFORMATION OBTAINED IN THIS MANNER IS SURVEYED TO PROJECT CONTROL.) AND QUALITY LEVEL "C" (INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D; INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS), AND BASED ON FIELD MEASUREMENTS PROVIDED BY THE OWNER AND THE CONTRACTOR. SUBSURFACE UTILITIES ARE NOT DEPICTED TO THE EXTENT SET FORTH IN ASCE 38-02 QUALITY LEVELS "A" (INFORMATION OBTAINED THROUGH THE NONDESTRUCTIVE EXPOSURE OF UNDERGROUND UTILITIES, AND ALSO PROVIDES THE TYPE, SIZE, CONDITION, MATERIAL AND OTHER CHARACTERISTICS OF UNDERGROUND FEATURES). TO THE EXTENT DEEMED NECESSARY FOR THE PROTECTION OF PERSONS AND PROPERTY, POTHOLES OR OTHER PRECISE CHARACTERISTICS MAY BE COMPLETED TO CONFIRM THE EXACT LOCATION OF ANY SUBSURFACE UTILITIES. NOTIFY OWNER AND ENGINEER WITH ALL UTILITY INFORMATION PRIOR TO CONSTRUCTION. VISIT [HTTPS://WWW.FHWA.DOT.GOV/PROGRAMADMIN/SUEINDEX.CFM](https://www.fhwa.dot.gov/programadmin/sueindex.cfm) FOR MORE INFORMATION.
- THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE SHALL FURNISH THE OWNER AND ENGINEER OF RECORD A COMPLETE SET OF CONSTRUCTION RECORD DRAWINGS ("AS-BUILTS") FOR THE CONSTRUCTED IMPROVEMENTS. THE AS-BUILT SET SHALL SHOW SUFFICIENT DIMENSION TIES TO PERMANENT SURFACE FEATURES OR NORTHING/EASTING POINTS FOR ALL BURIED FACILITIES TO ALLOW FOR FUTURE LOCATING. THE AS-BUILT SET SHALL SHOW AS-BUILT SETS SHOW AS-BUILT CONTOURS AND ELEVATIONS OF ASPHALT AND CONCRETE FLATWORK, FLOWLINES, GRADE BREAKS, STAIRS, CROSS-SLOPES, HIGH AND LOW POINTS, AND ADDITIONAL ELEVATIONS TO DEMONSTRATE IMPROVEMENTS WERE CONSTRUCTED PER PLANS. THE AS-BUILT SET SHALL SHOW ELEVATIONS OF ALL DETENTION/WATER QUALITY FACILITIES, INCLUDING BUT NOT LIMITED TO BERMS, SPILLWAYS, BASIN BOTTOM, PIPE INVERTS, AND CONTROL STRUCTURE FEATURES (AS SURVEYED AND STAMPED BY A CERTIFIED P.L.S.). THE AS-BUILT SET SHALL ALSO INCLUDE ELEVATIONS OF MANHOLES, PIPES, INLETS, GRATES, AND SIZES OF ALL UTILITIES. THE AS-BUILT SET SHALL SHOW ANY AND ALL VARIATIONS FROM THE APPROVED PLAN. ENGINEER WILL PRODUCE FINAL RECORD DRAWINGS.

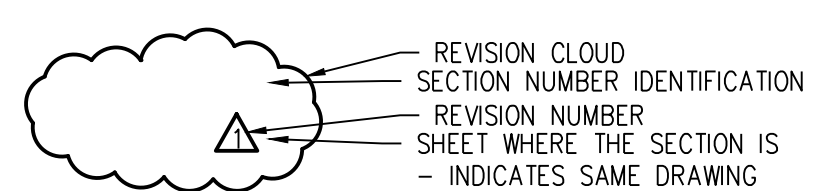
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SECTION CALLOUT



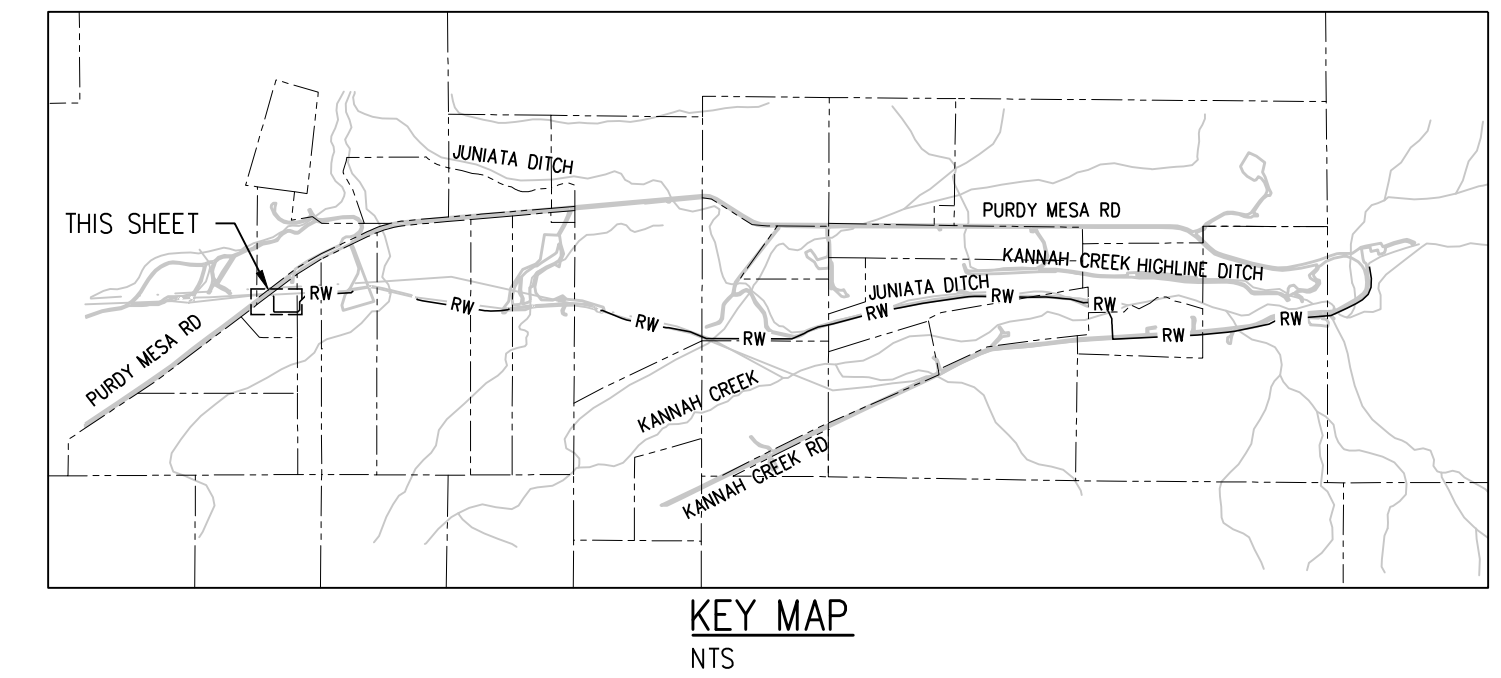
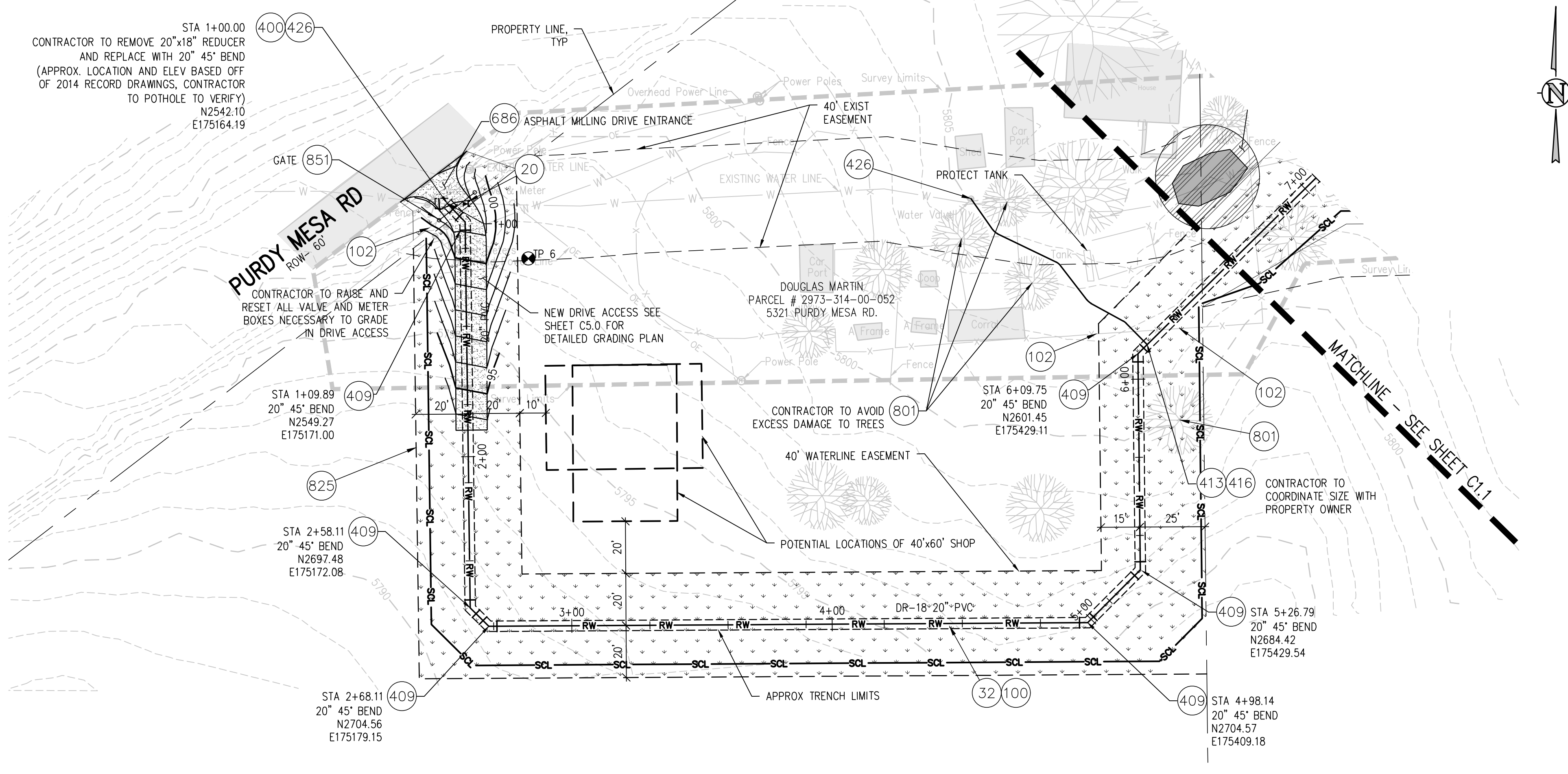
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SURVEY LEGEND

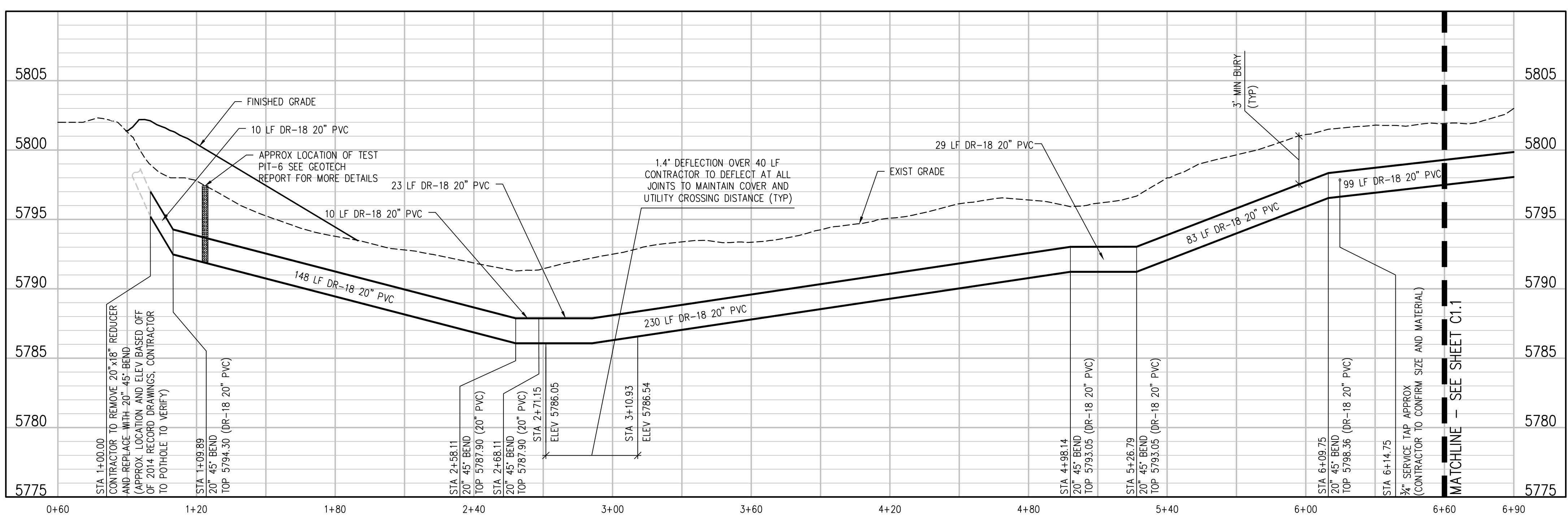
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| | EXISTING WATER LINE |
| | EXISTING WATER LINE LOCATED FROM MAP |
| | WATER VALVE |
| | WATER METER |
| | MANHOLE |
| | IRRIGATION LINE |
| | IRRIGATION DITCH |
| | STORM DRAINAGE LINE |
| | UNDERGROUND ELECTRICAL LINE |
| | OVERHEAD ELECTRICAL LINE |
| | ELECTRICAL POLE |
| | GUY WIRE |
| | TELEPHONE LINE |
| | SURVEY LIMITS |
| | RECORD BOUNDARY LANE |
| | EXISTING FENCE |
| | EXISTING TREE |
| | MARSH |
| | DENSE VEGETATION |
| | BUILDING |

NOTE: SHADED ITEMS



CONSTRUCTION NOTES

- 4 202 - REMOVAL OF TREE
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS
- 32 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES)
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 102 210 - RESET FENCE.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-25 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 407 102.8/108.3 - TEE (SIZE AS SHOWN).
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 413 102.7C/108.4 - WATER SERVICE LINE (TYPE K COPPER)
- 416 102.8J/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 426 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
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- 428 102.8/108.3 - BLOW OFF ASSEMBLY (SEE SPECIAL PROVISIONS DETAIL FOR SIZE, MATERIALS, AND CONSTRUCTION)
- 686 401.08 - HOT BITUMINOUS PAVEMENT MILLINGS (4" THICK)
- 801 PROTECT TREE.
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- 851 INSTALL 12-FT 6-BAR TUBE STYLE GATE. CONNECT TO FENCE. HEIGHT TO MATCH EXISTING FENCE HEIGHT.

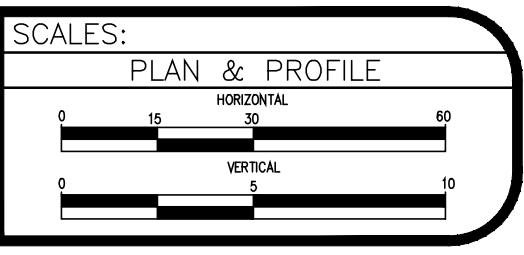


- NOTES:**
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 - TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

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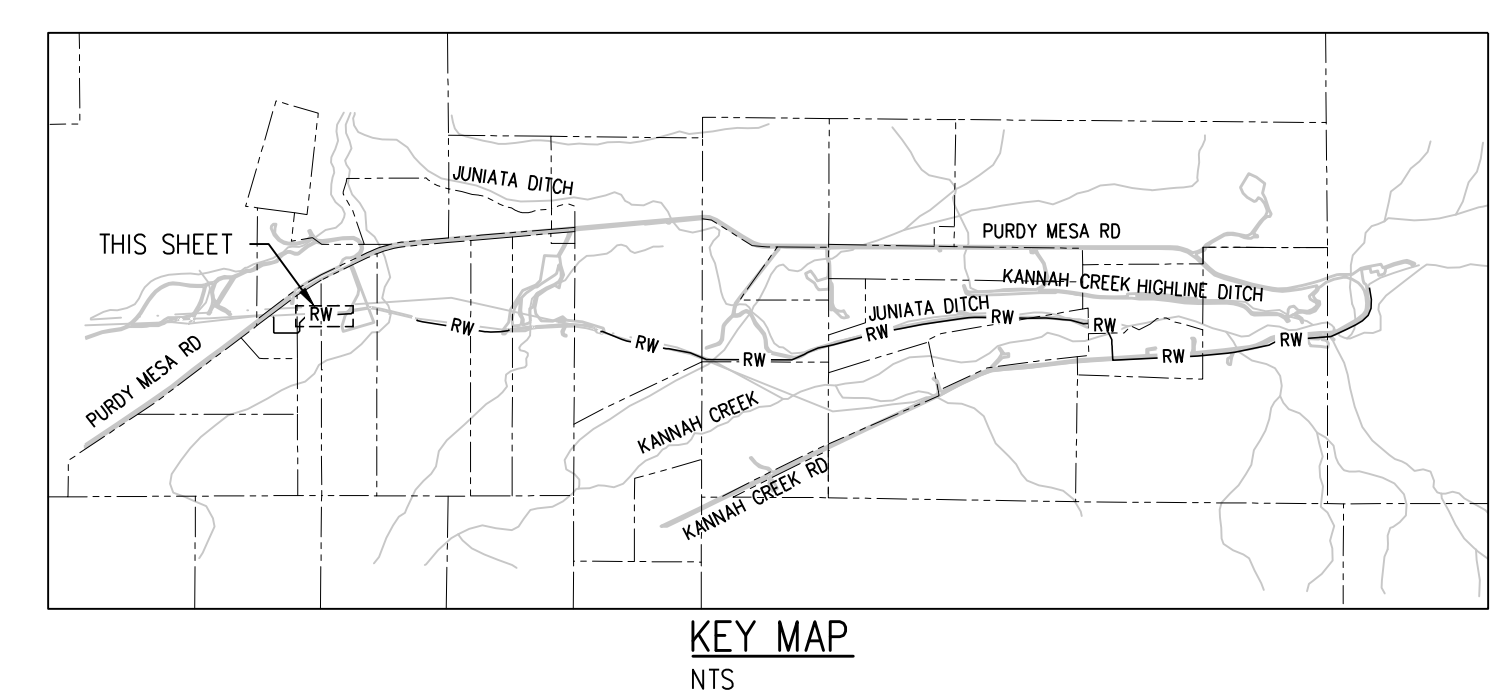
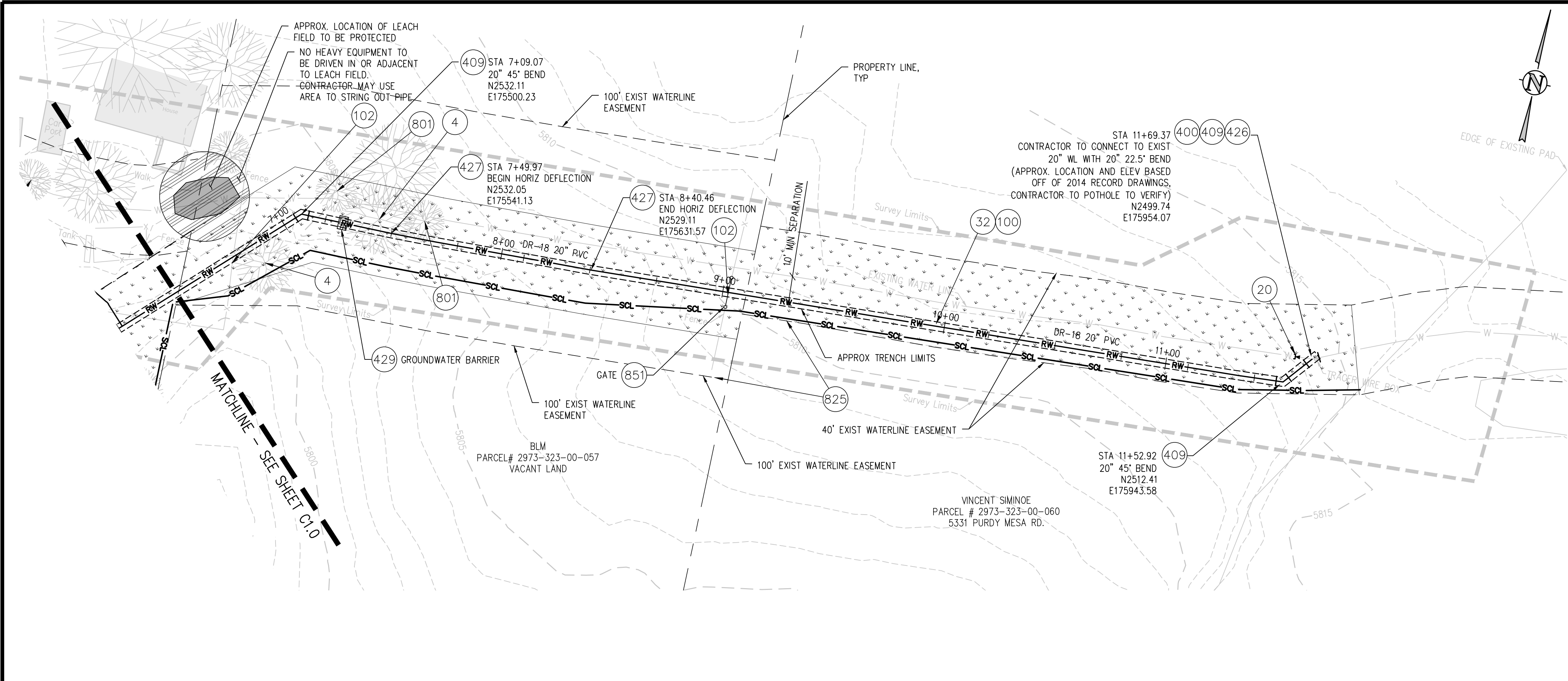
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| DRAWN BY | ZCF | DATE | 03 03, 2023 |
| DESIGNED BY | LAL/ZCF | DATE | 03 03, 2023 |
| CHECKED BY | JJM | DATE | 01 05, 2023 |
| APPROVED BY | | DATE | |



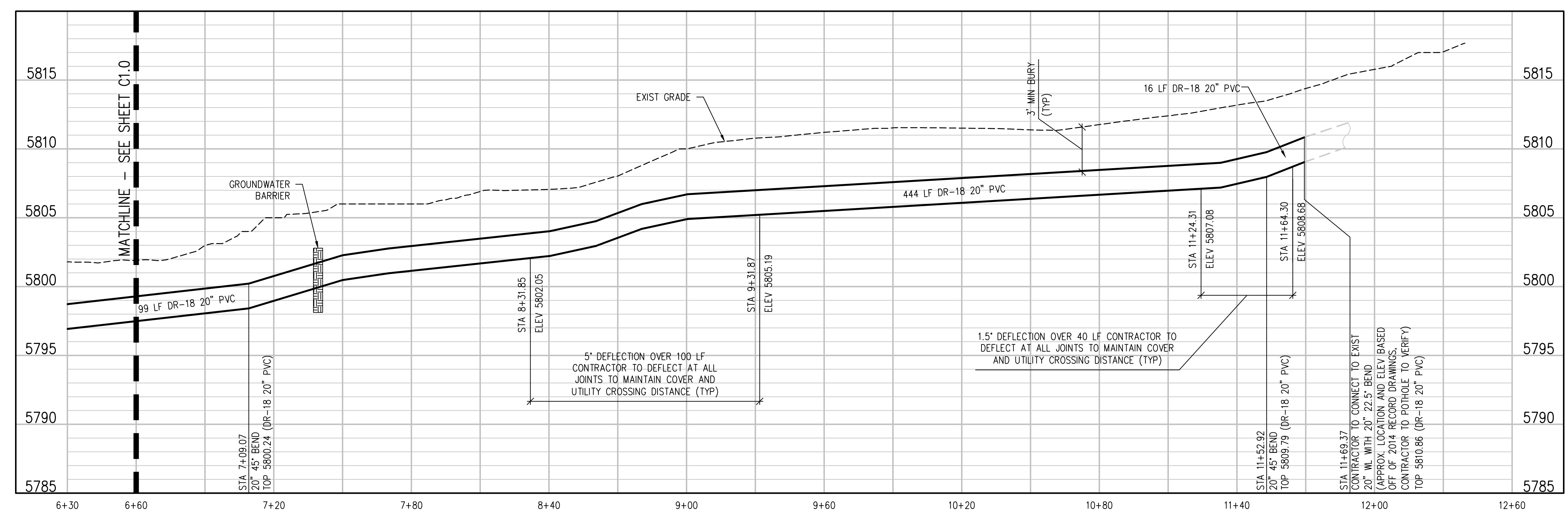
UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE

C1.0



CONSTRUCTION NOTES

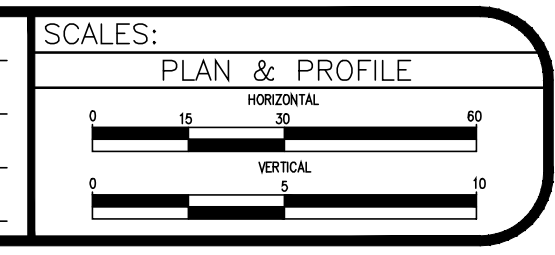
- 4 202 - REMOVAL OF TREE
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- 102 210 - RESET FENCE.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-25 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 426 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 427 DEFLECT PIPE AS SHOWN.
- 429 103 - GROUNDWATER BARRIER (INCIDENTAL TO WATER LINE INSTALLATION PAY ITEM)
- 801 PROTECT TREE.
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.



- NOTES:**
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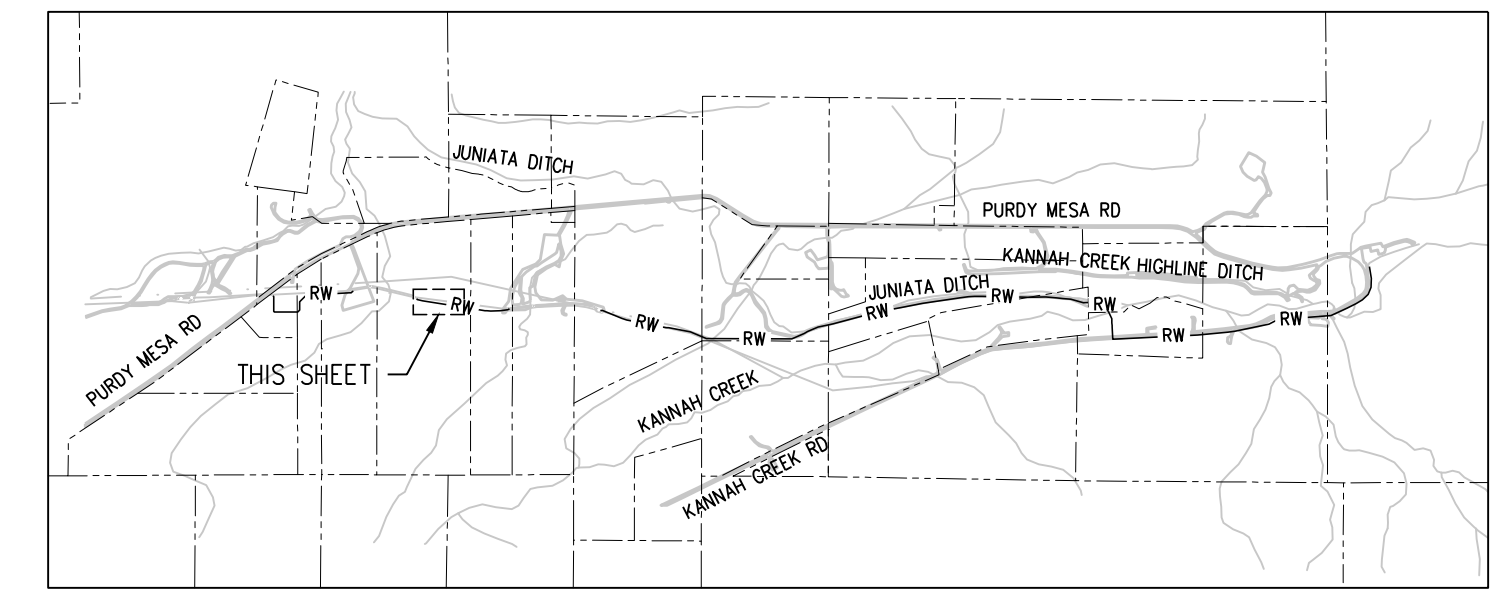
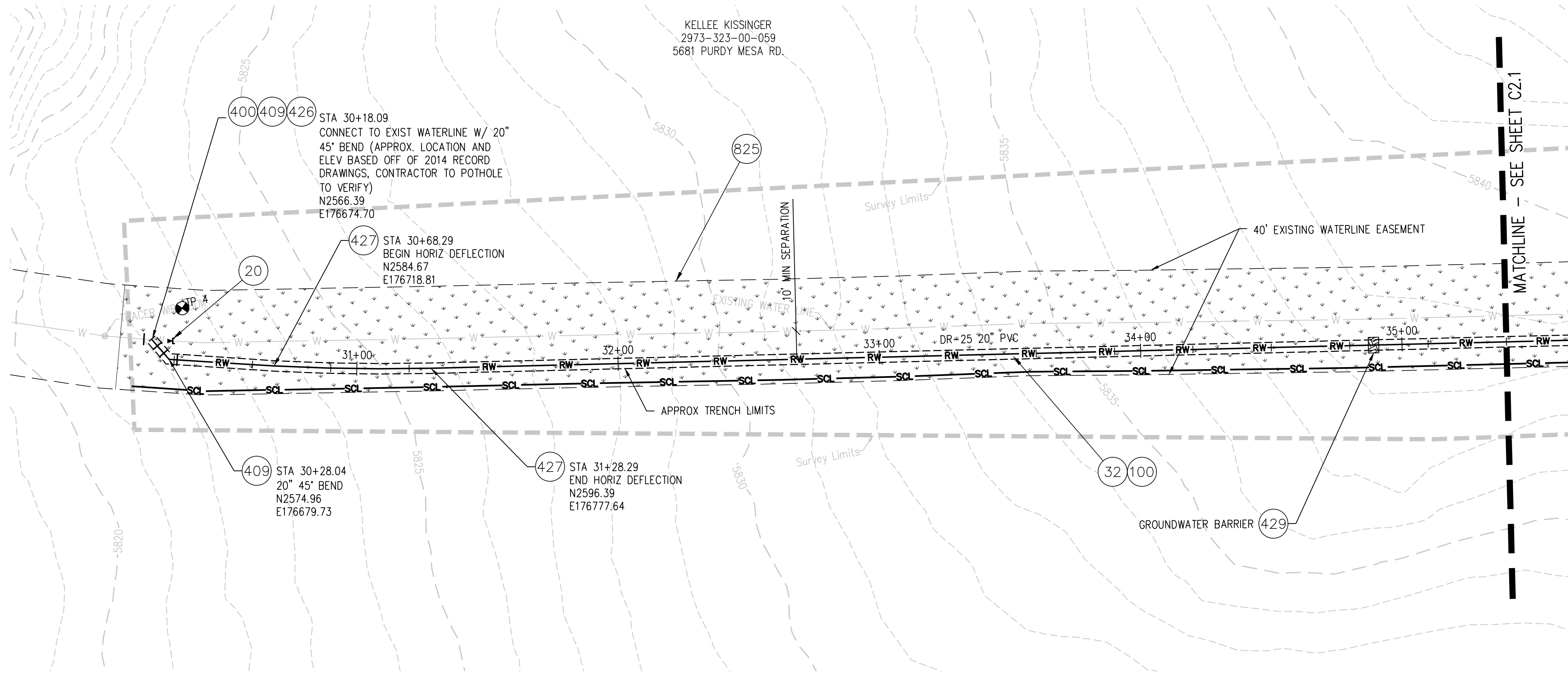
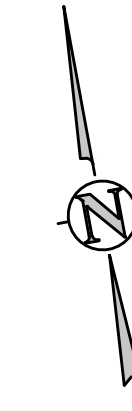
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| REVISION | | | LAL/ZCF | 03 03, 2023 |
| REVISION | | | JJM | 01 05, 2023 |
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**UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK
WATERLINE PLAN & PROFILE**

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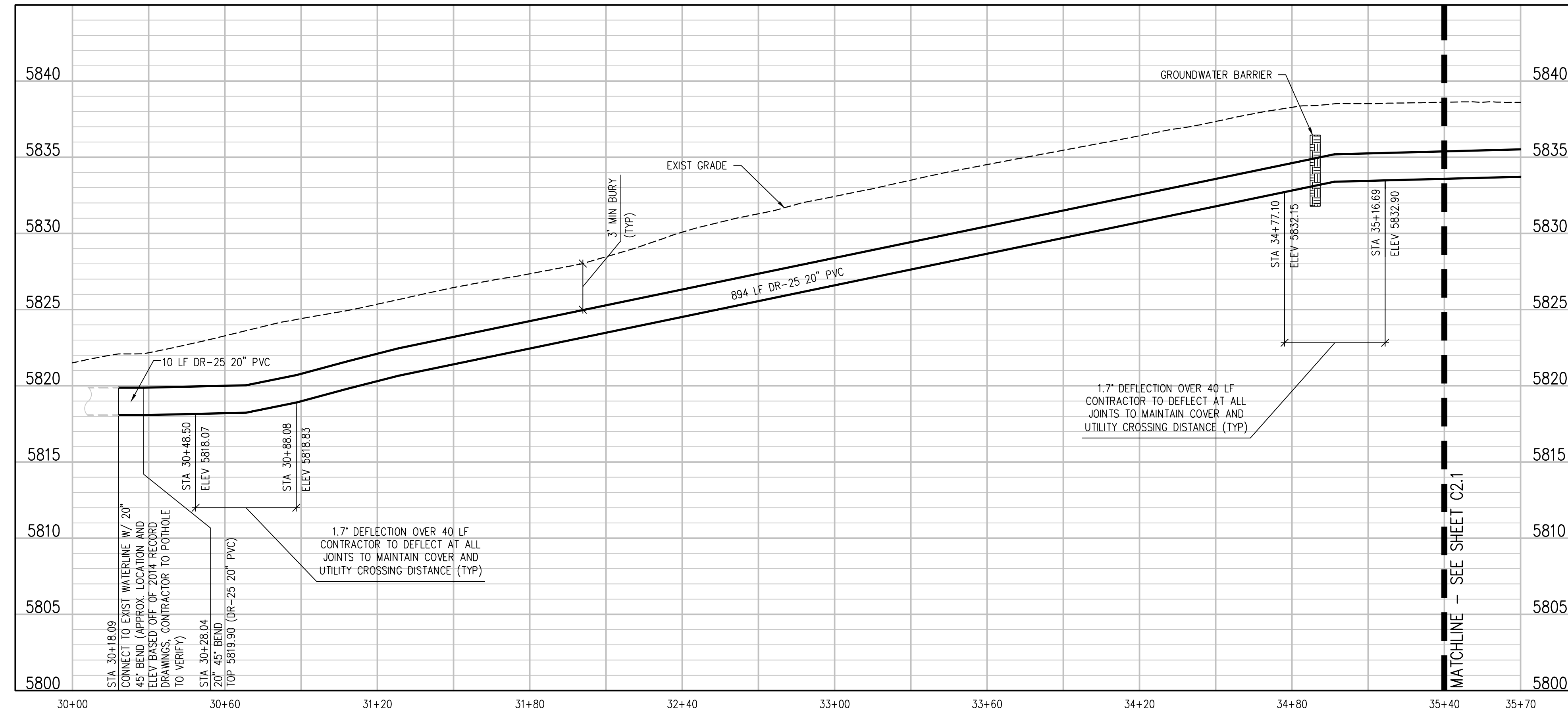
KELLEE KISSINGER
2973-323-00-059
5681 PURDY MESA RD.



KEY MAP
NTS

CONSTRUCTION NOTES

- (20) 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
- (32) 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES)
- (100) 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- (400) 102.7/108.2 - WATER MAIN PIPE (C-900 DR-25 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (409) 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- (426) CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- (427) DEFLECT PIPE AS SHOWN.
- (429) 103 - GROUNDWATER BARRIER (INCIDENTAL TO WATER LINE INSTALLATION PAY ITEM)
- (825) CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.

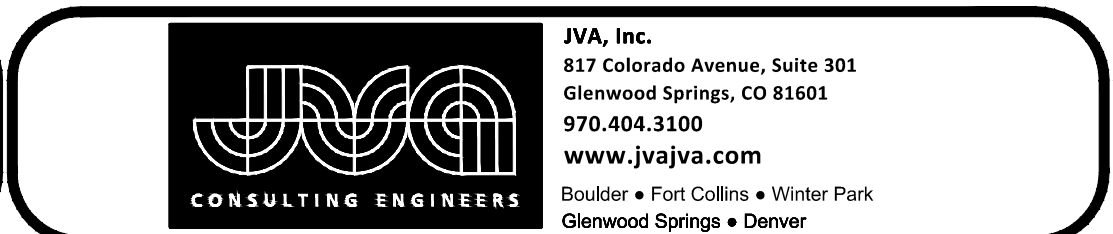
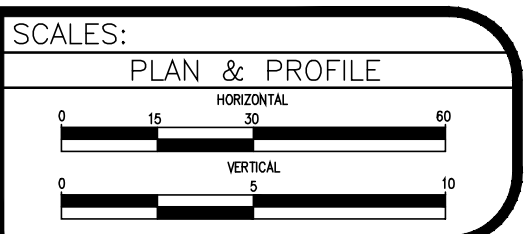


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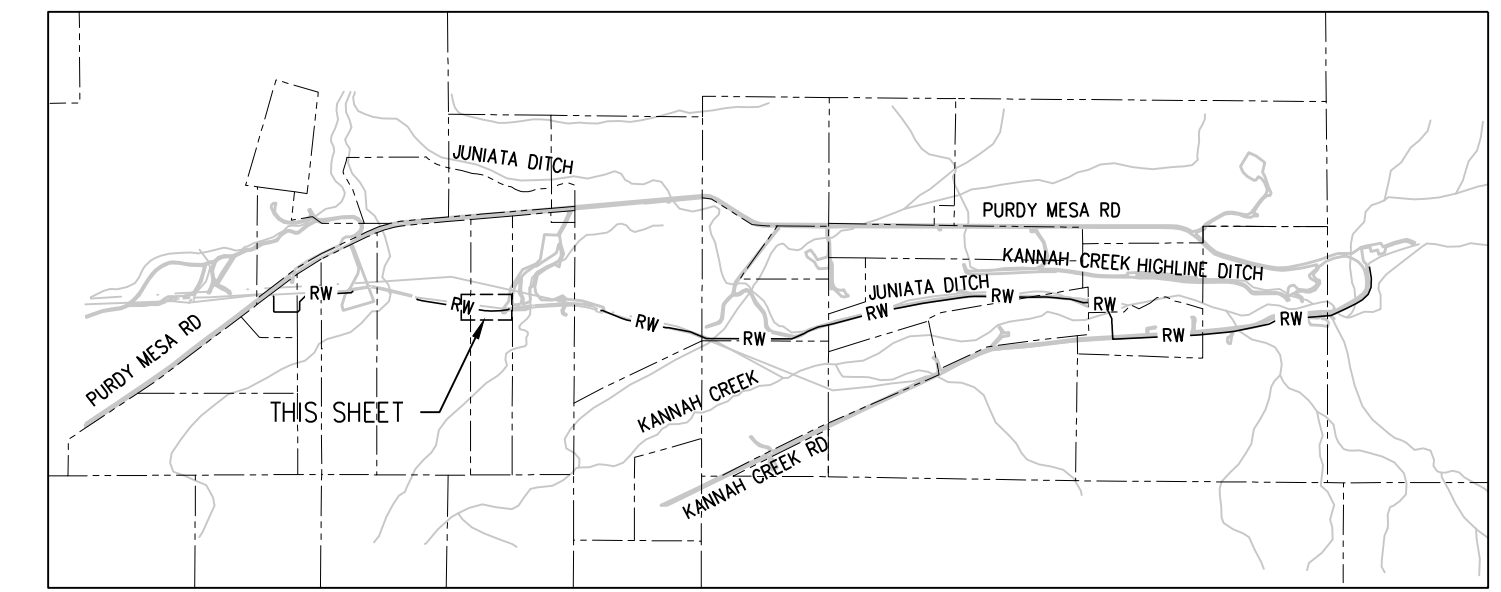
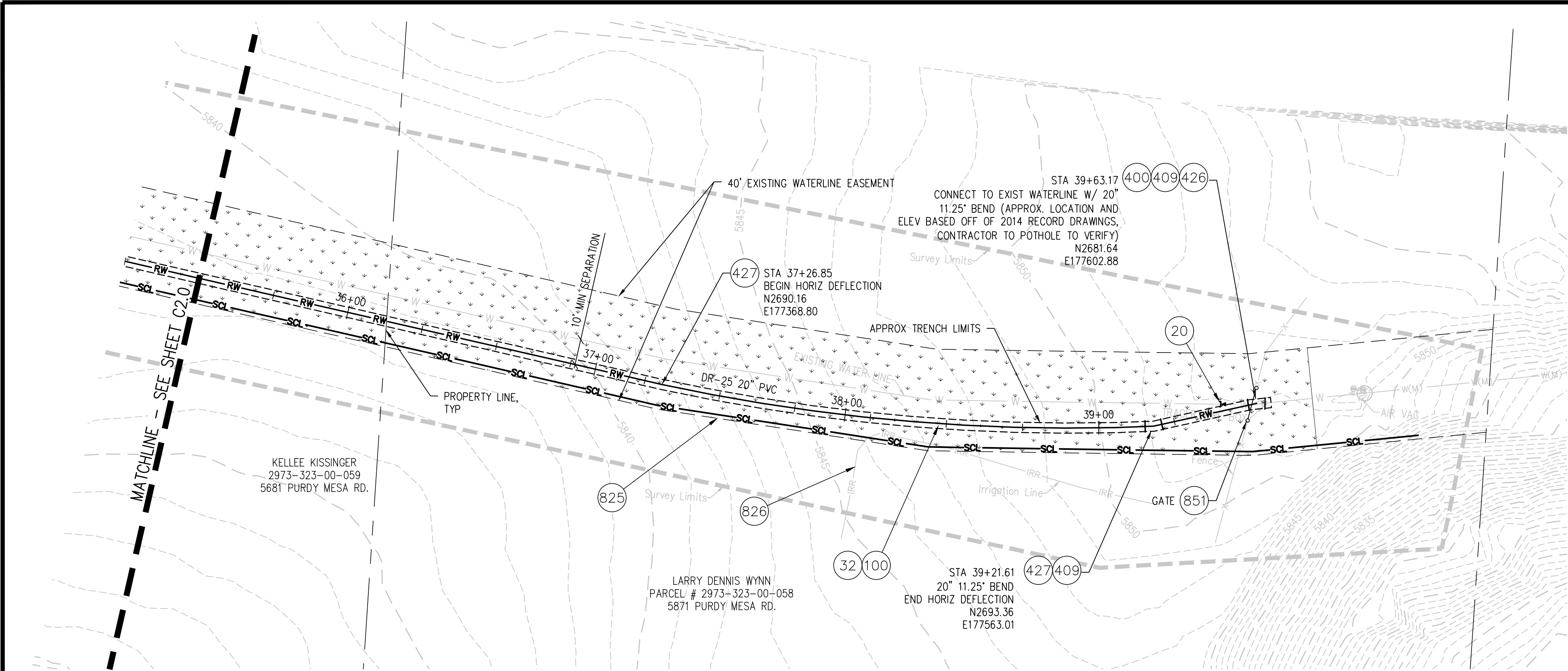
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| CHECKED BY | JJM | DATE | 01_05_2023 |
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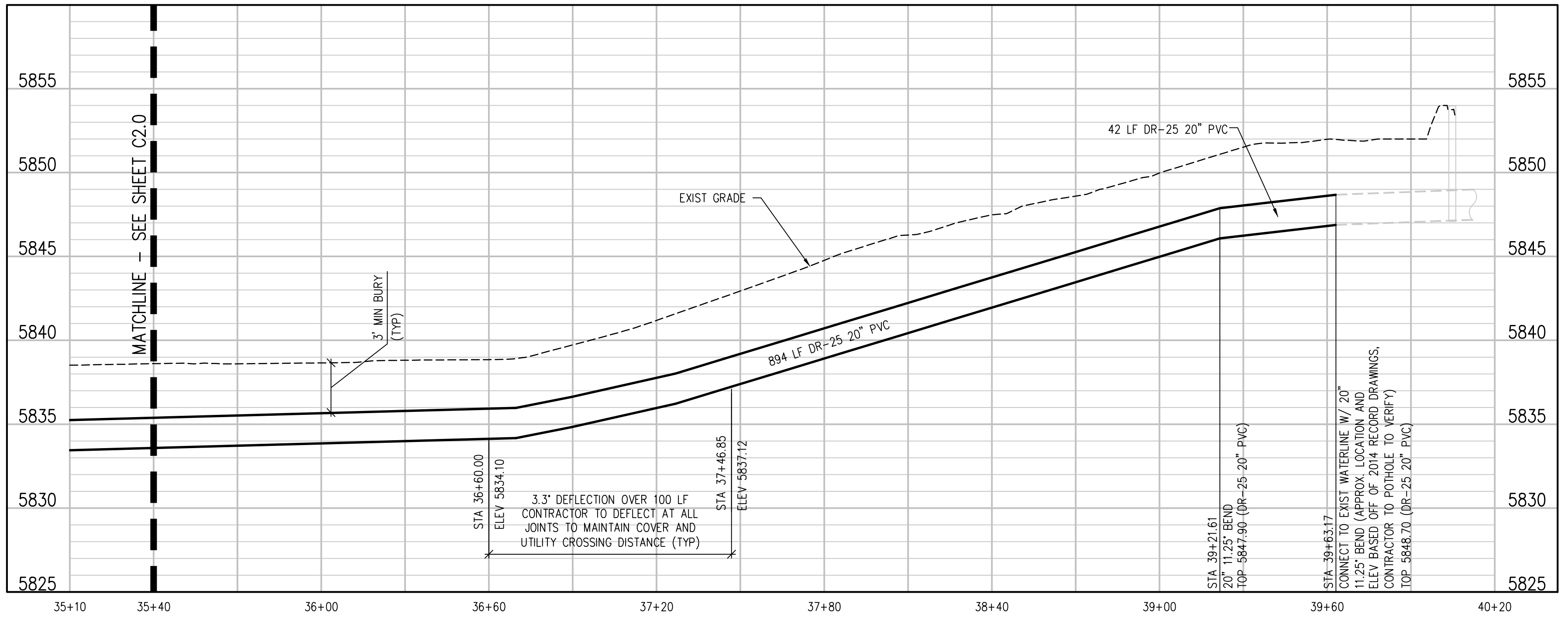
**UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE**

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CONSTRUCTION NOTES

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- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
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- 427 DEFLECT PIPE AS SHOWN.
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.
- 851 INSTALL 12-FT 6-BAR TUBE STYLE GATE. CONNECT TO FENCE. HEIGHT TO MATCH EXISTING FENCE HEIGHT.

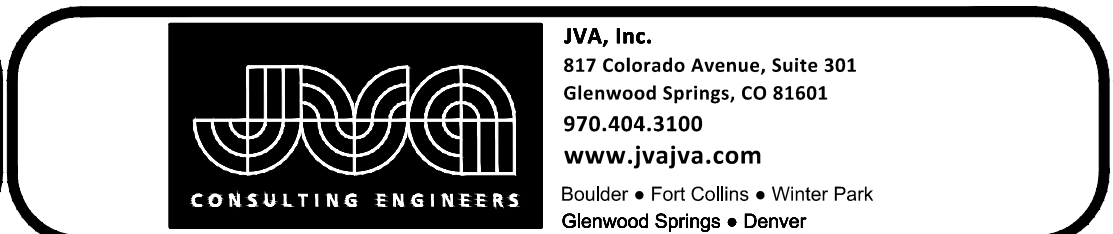
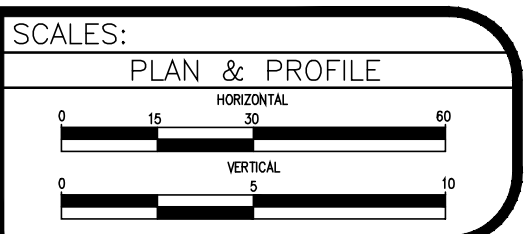


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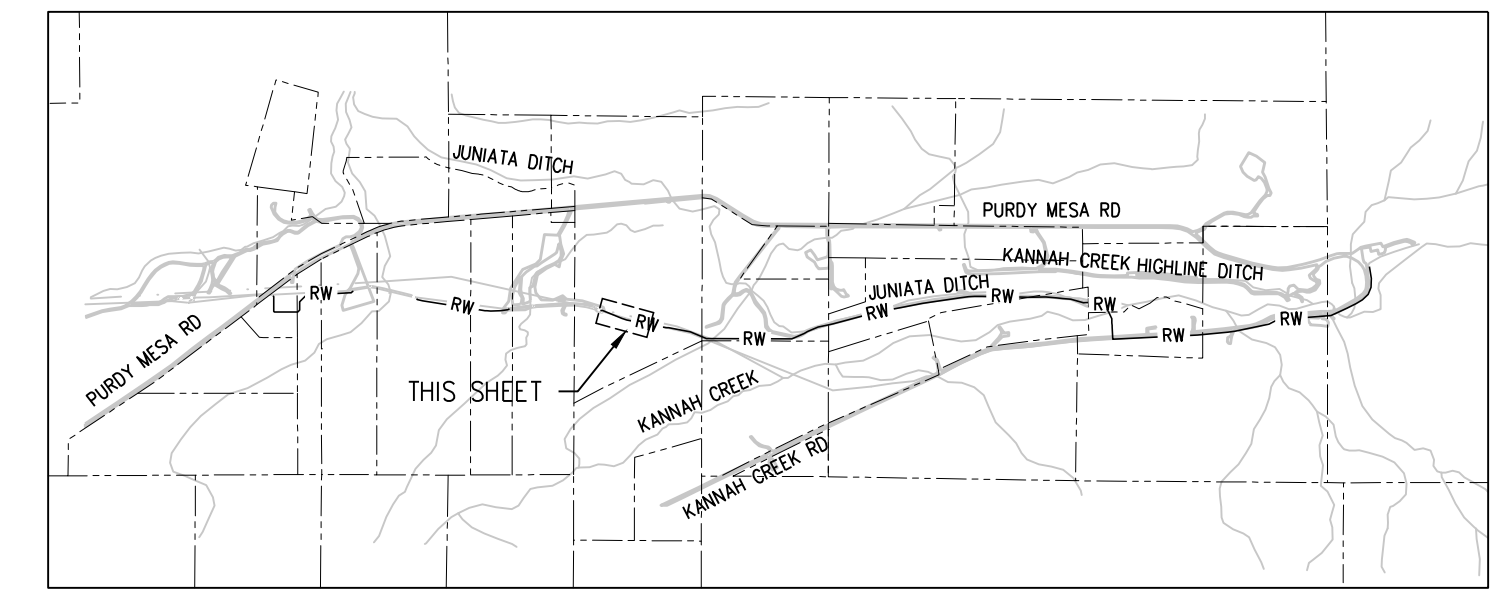
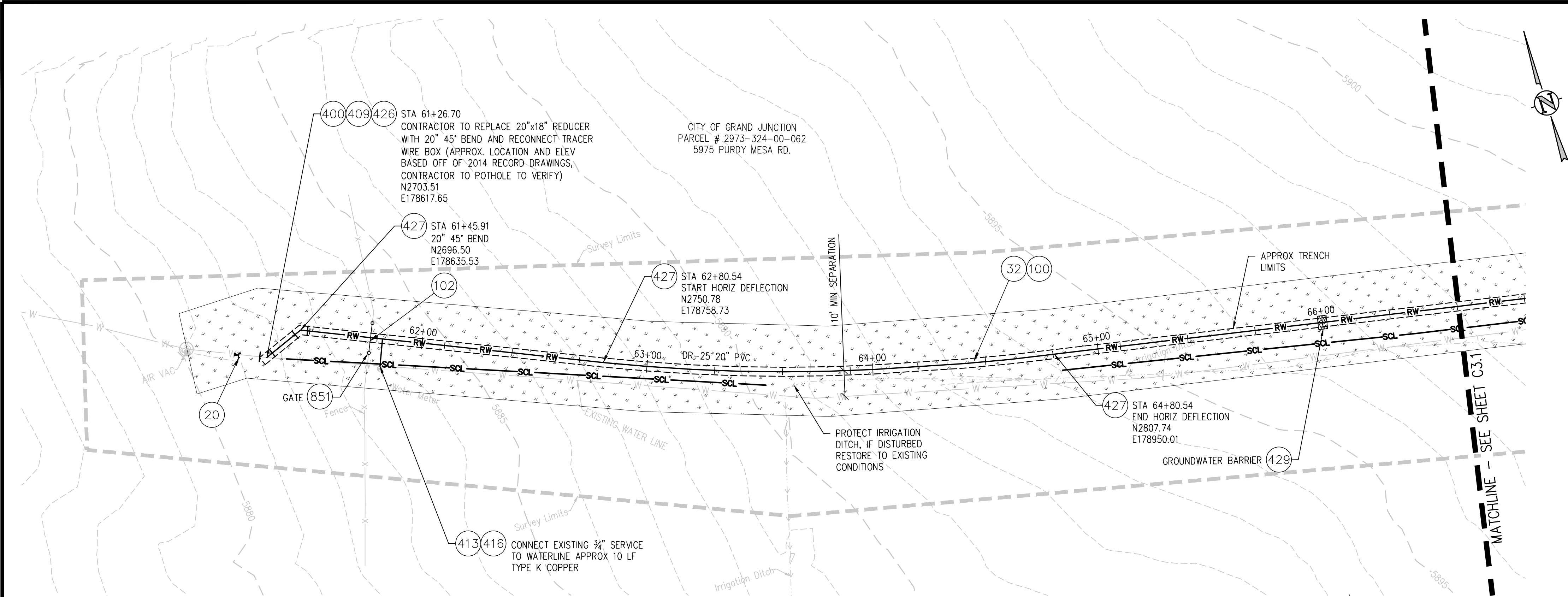
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 CHECKED BY JJM DATE 01 05, 2023
 APPROVED BY _____ DATE _____



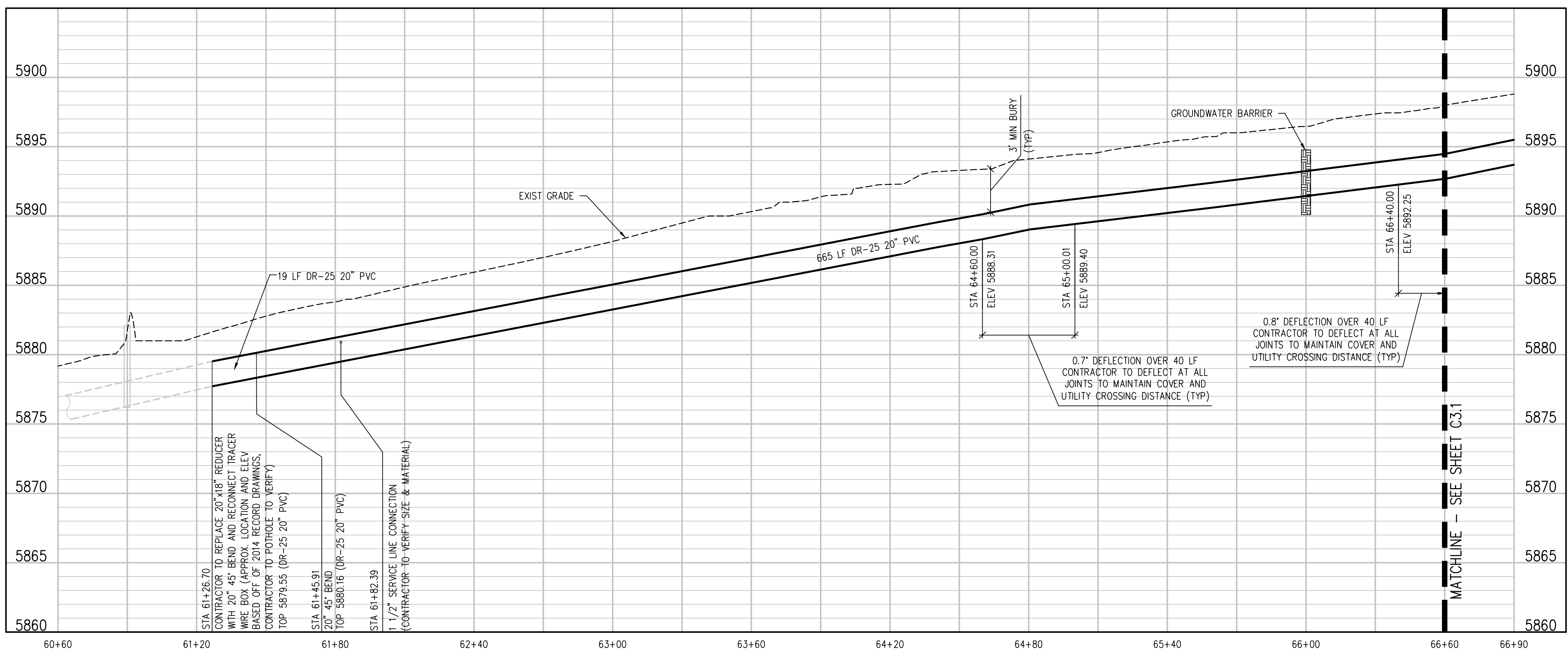
UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE

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CONSTRUCTION NOTES

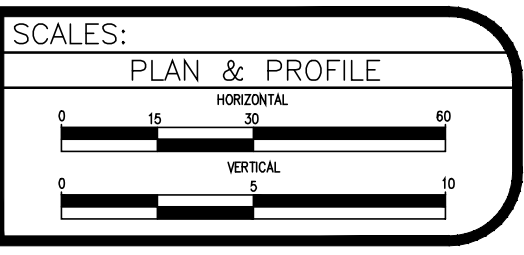
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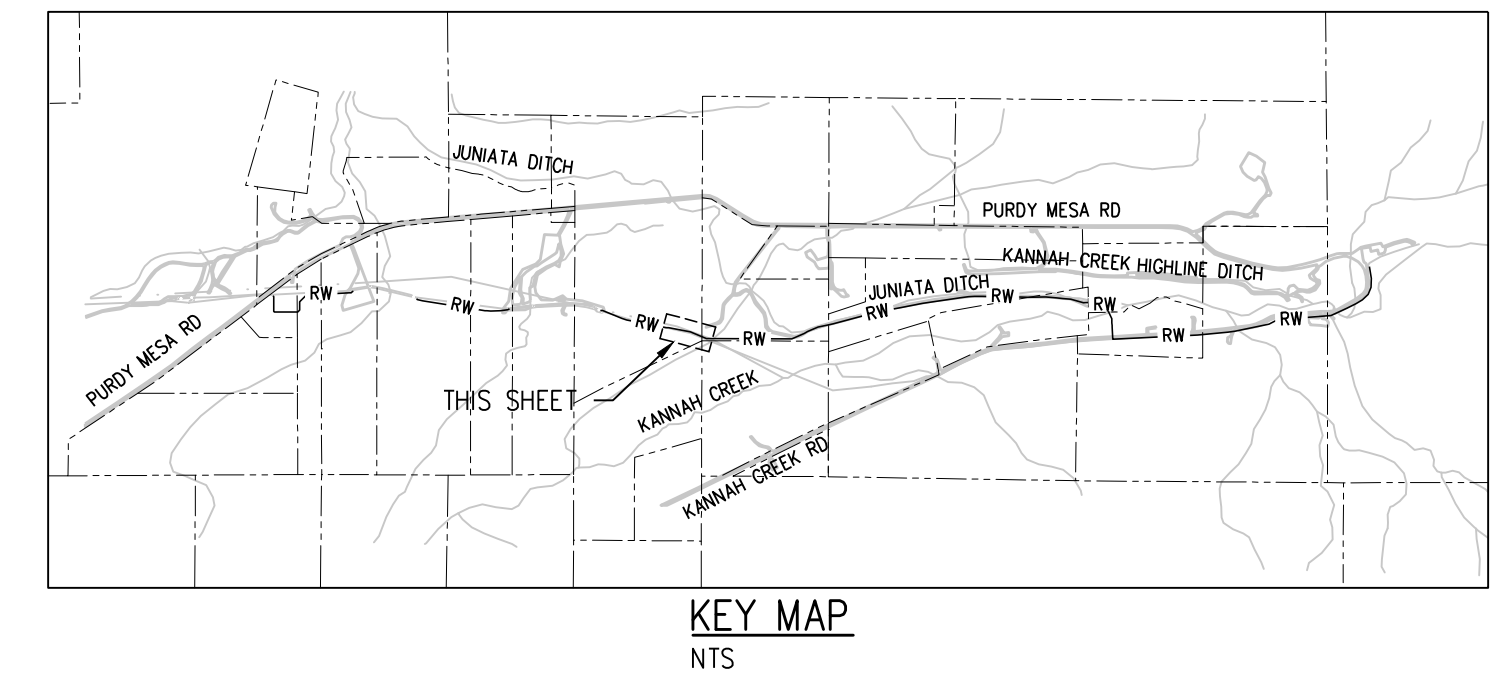
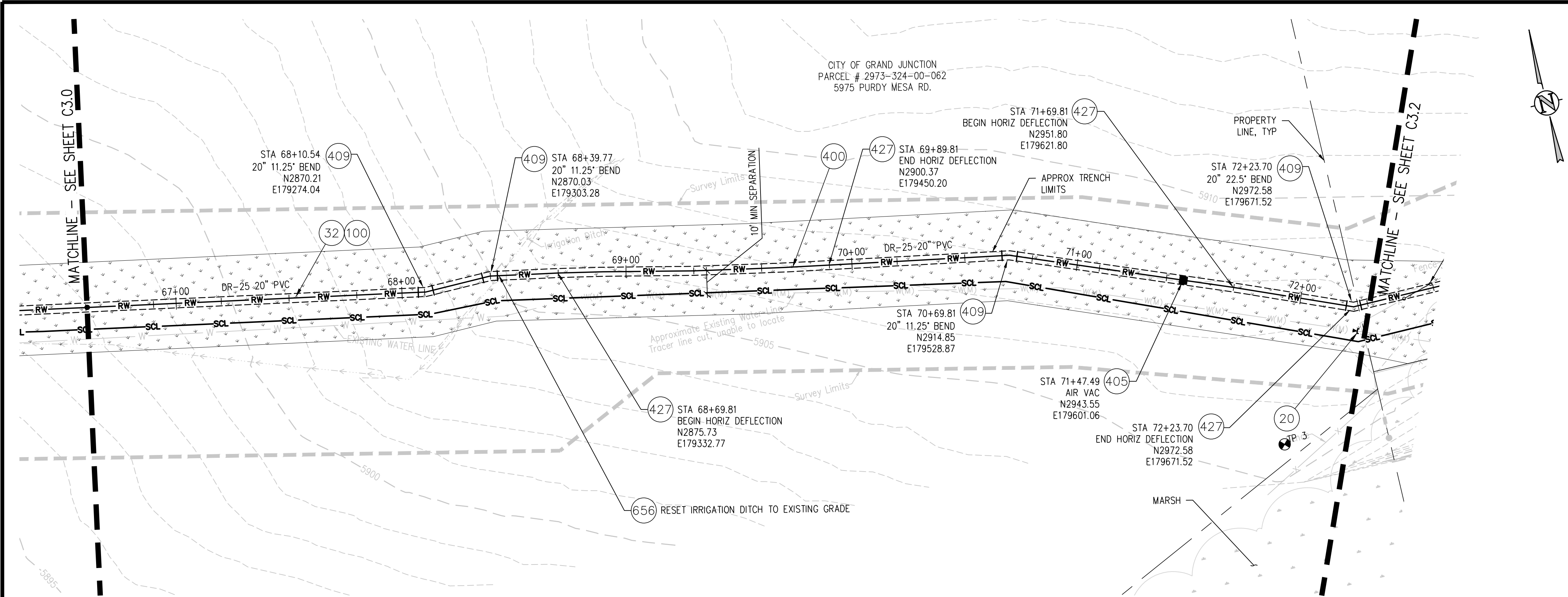
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| 2 | | | LAL/ZCF | 03_03_2023 |
| 3 | | | JJM | 01_05_2023 |
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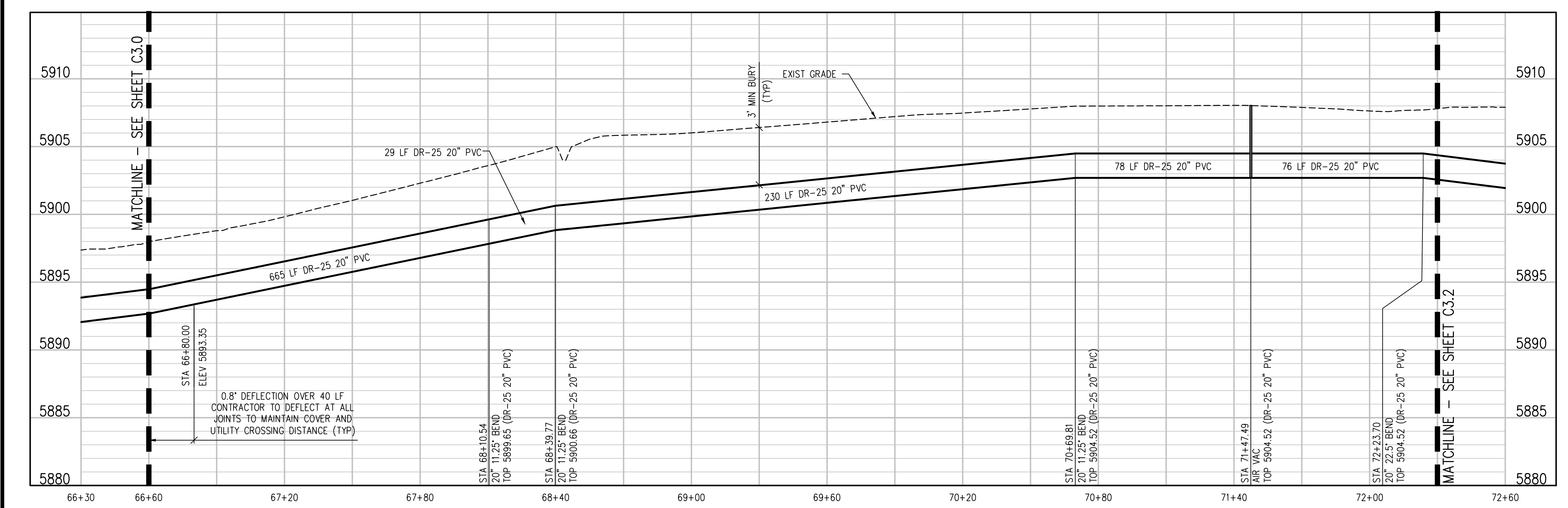
**UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE**

C3.0



CONSTRUCTION NOTES

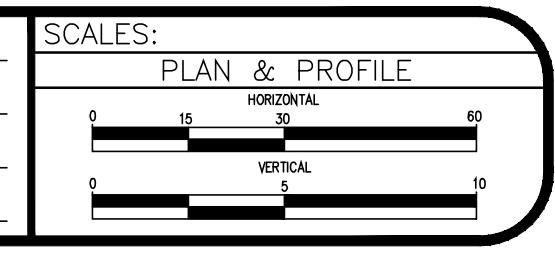
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- (405) 102.8g/102.8h/108.3 - AIR VALVE AND VAULT (SIZE AS SHOWN)
- (409) 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- (427) DEFLECT PIPE AS SHOWN.
- (656) 203 - REGRADE IRRIGATION CHANNEL TO MATCH HISTORICAL FLOW PATTERNS



- NOTES:**
- 1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR LOCATION OF ANY EXISTING ABOVE OR BELOW GROUND PRIVATELY OWNED FEATURES WITHIN THE EASEMENT THAT REQUIRES PROTECTION. FEATURES SHALL BE IDENTIFIED IN THE FIELD AND MARKED ON THE PLANS.
 - 2) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR RELOCATION OF EXISTING ABOVE GROUND FEATURES THAT ARE IN CONFLICT WITH THE NEW CONSTRUCTION WITHIN THE EASEMENT AREA.
 - 3) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

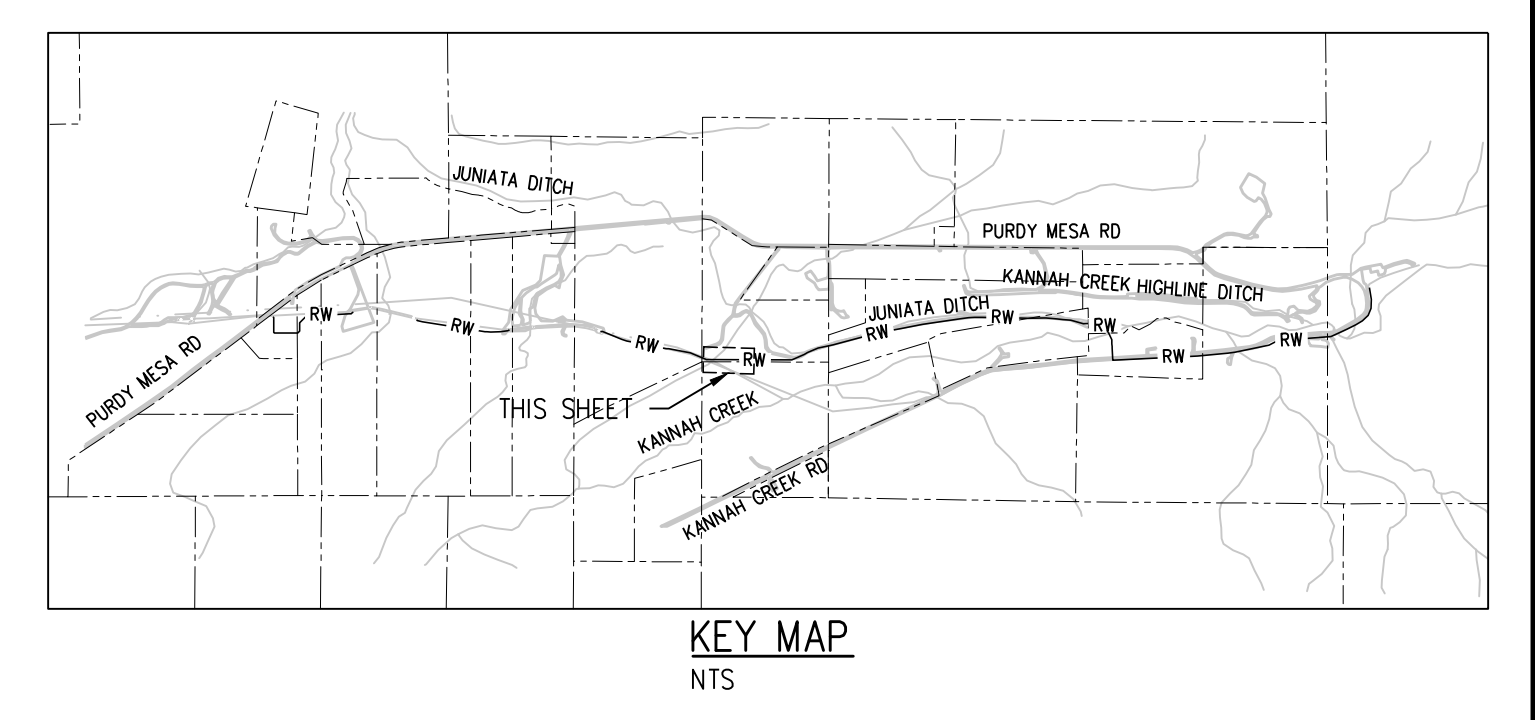
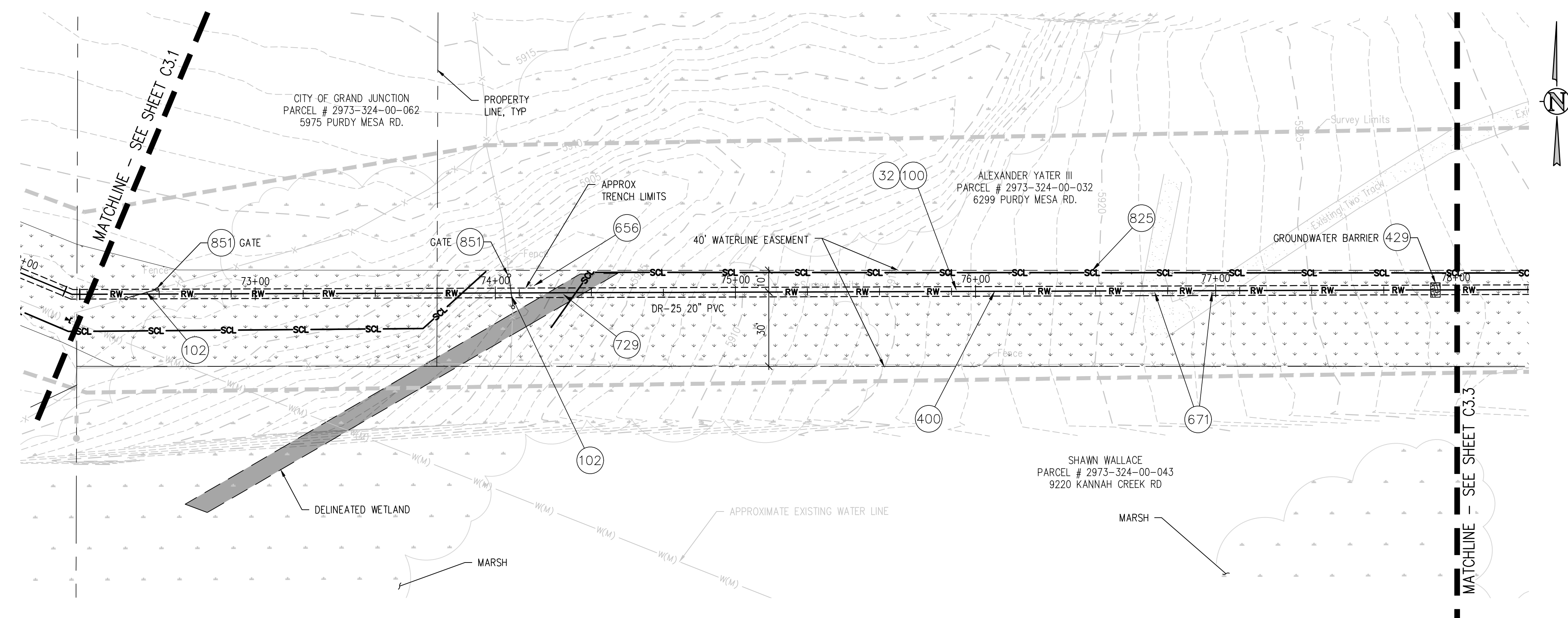
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| 2 | | | LAL/ZCF | 03 03, 2023 |
| 3 | | | JJM | 01 05, 2023 |
| 4 | | | | |



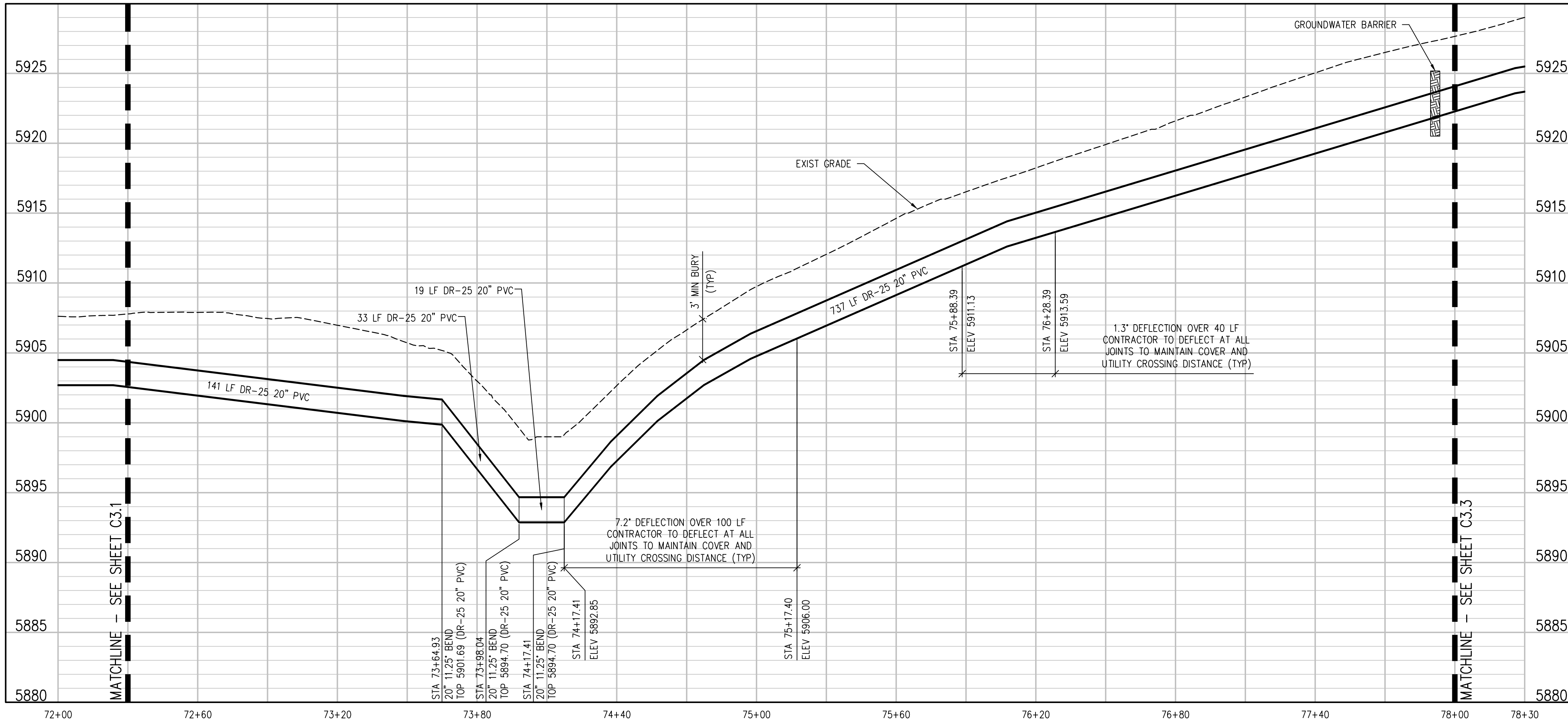
UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE

C3.1



CONSTRUCTION NOTES

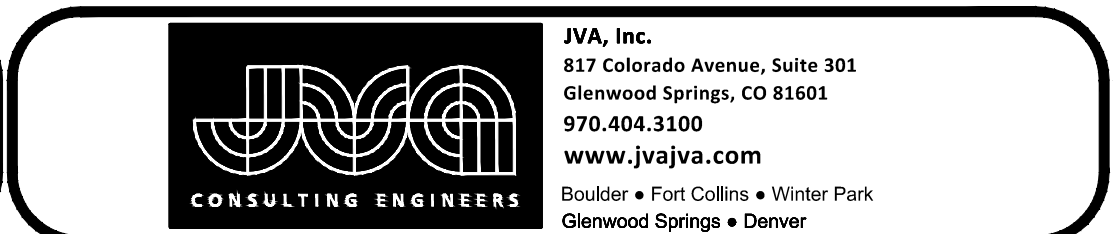
- 32 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES).
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 102 210 - RESET FENCE.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-25 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 407 102.8/108.3 - TEE (SIZE AS SHOWN)
- 428 102.8/108.3 - BLOW OFF ASSEMBLY (SEE SPECIAL PROVISIONS DETAIL FOR SIZE, MATERIALS, AND CONSTRUCTION)
- 429 103 - GROUNDWATER BARRIER (INCIDENTAL TO WATER LINE INSTALLATION PAY ITEM)
- 656 203 - REGRADE DITCH TO MATCH HISTORICAL FLOW PATTERNS
- 671 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
- 729 207 - WETLAND TOPSOIL REMOVAL AND STOCKPILE (CONTRACTOR SHALL SALVAGE WETLAND TOPSOIL FROM LIMITS SHOWN ON THE PLAN AND PLACE IN STOCKPILES OR WINDROWS TO BE REUSED FOR SURFACE RESTORATION)
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- 851 INSTALL 12-FT 6-BAR TUBE STYLE GATE. CONNECT TO FENCE. HEIGHT TO MATCH EXISTING FENCE HEIGHT.



- NOTES:**
- CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR LOCATION OF ANY EXISTING ABOVE OR BELOW GROUND PRIVATELY OWNED FEATURES WITHIN THE EASEMENT THAT REQUIRES PROTECTION. FEATURES SHALL BE IDENTIFIED IN THE FIELD AND MARKED ON THE PLANS.
 - CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR RELOCATION OF EXISTING ABOVE GROUND FEATURES THAT ARE IN CONFLICT WITH THE NEW CONSTRUCTION WITHIN THE EASEMENT AREA.
 - TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

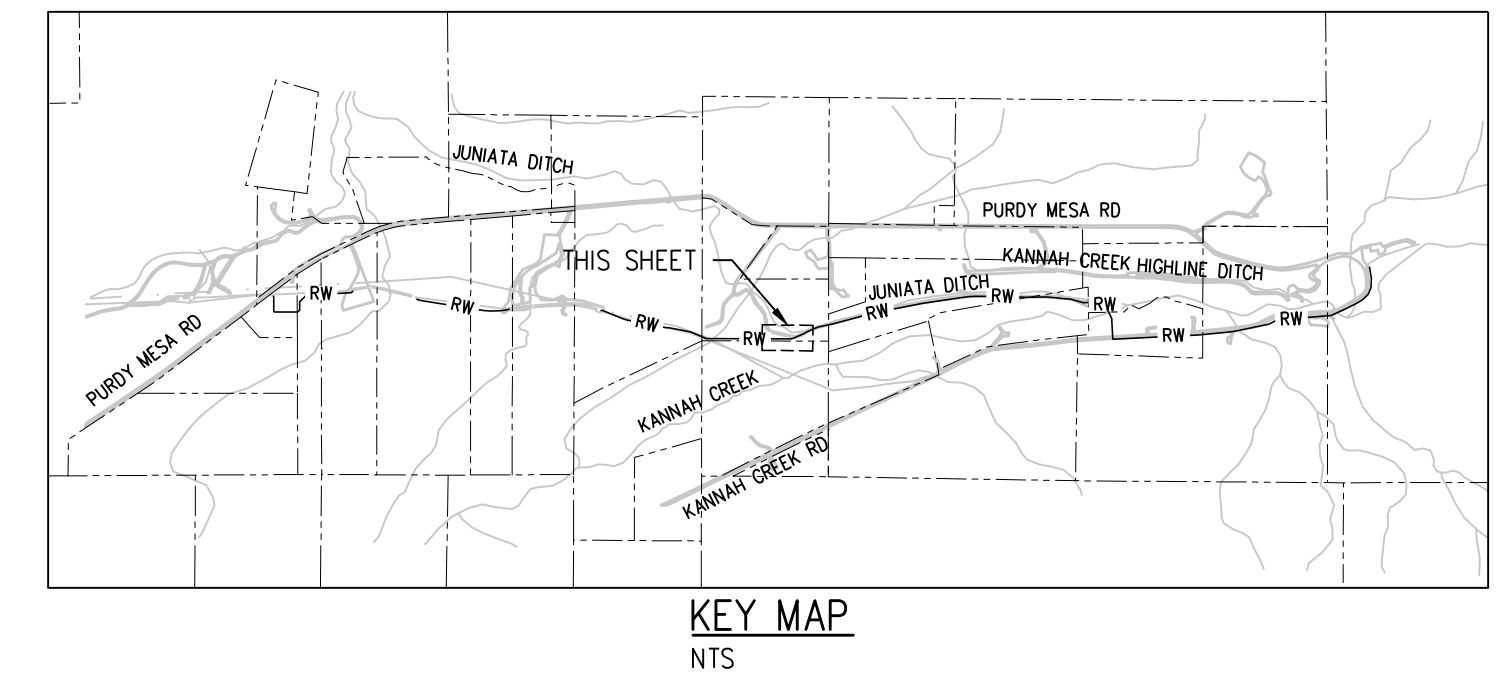
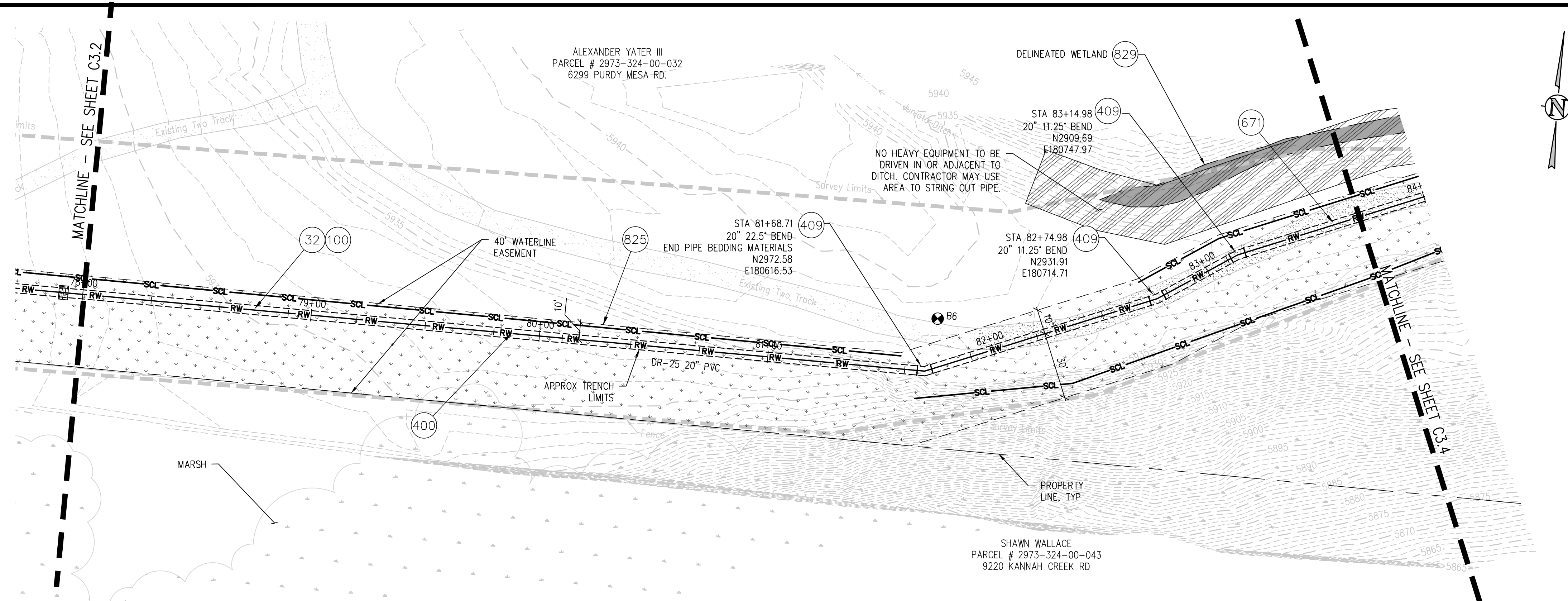
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| REVISION | DESCRIPTION | DATE | DRAWN BY | DATE | SCALES: |
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| REVISION | | | ZCF | 03 03, 2023 | PLAN & PROFILE |
| REVISION | | | LAL/ZCF | 03 03, 2023 | HORIZONTAL |
| REVISION | | | JJM | 01 05, 2023 | VERTICAL |
| REVISION | | | | | |



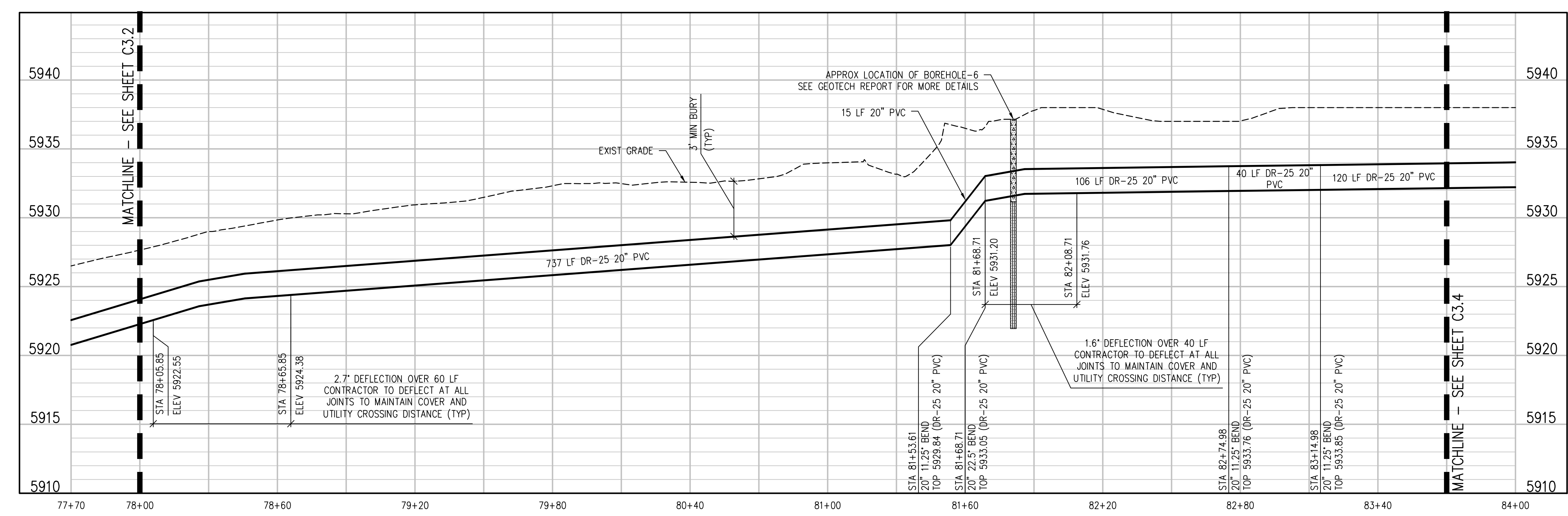
UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE

C3.2



CONSTRUCTION NOTES

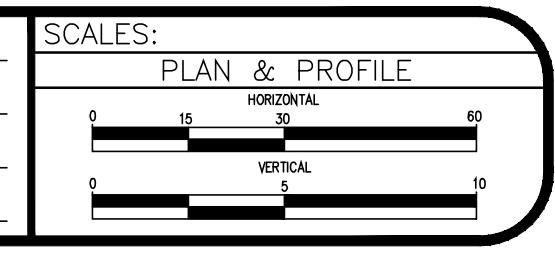
- 32 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES).
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-25 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 671 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- 829 PROTECT WETLAND



- NOTES:**
- 1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR LOCATION OF ANY EXISTING ABOVE OR BELOW GROUND PRIVATELY OWNED FEATURES WITHIN THE EASEMENT THAT REQUIRES PROTECTION. FEATURES SHALL BE IDENTIFIED IN THE FIELD AND MARKED ON THE PLANS.
 - 2) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR RELOCATION OF EXISTING ABOVE GROUND FEATURES THAT ARE IN CONFLICT WITH THE NEW CONSTRUCTION WITHIN THE EASEMENT AREA.
 - 3) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

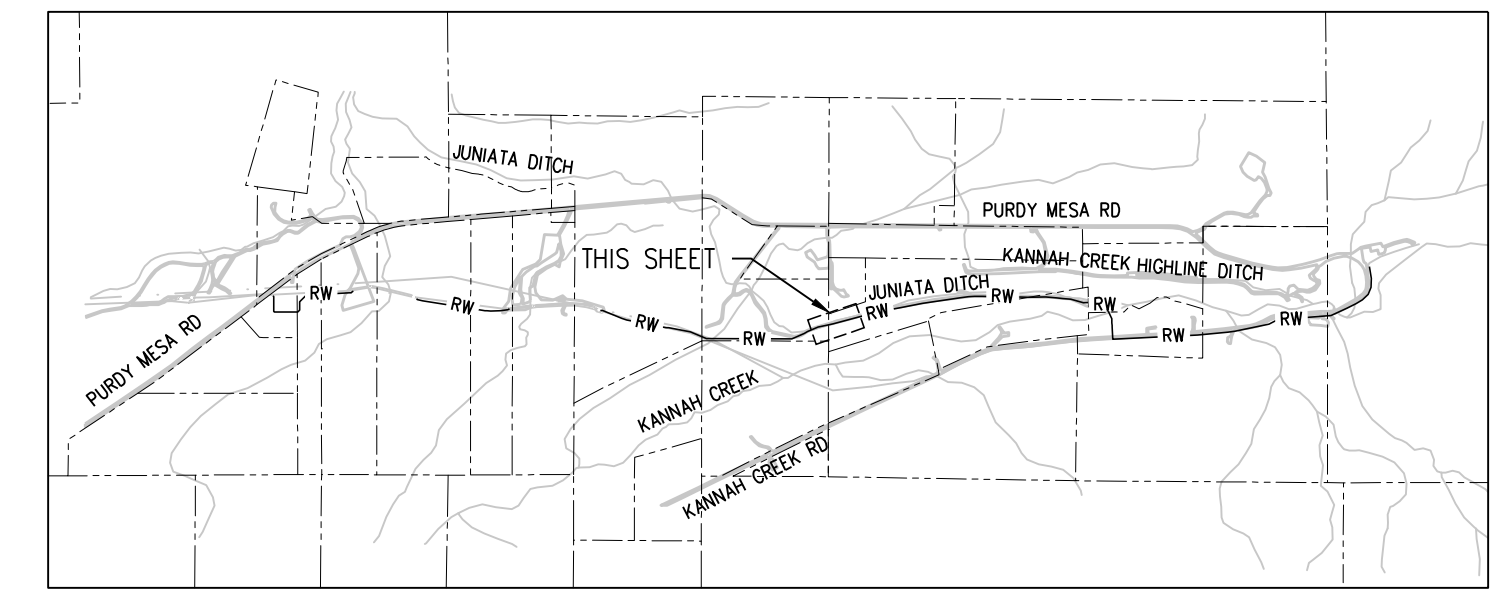
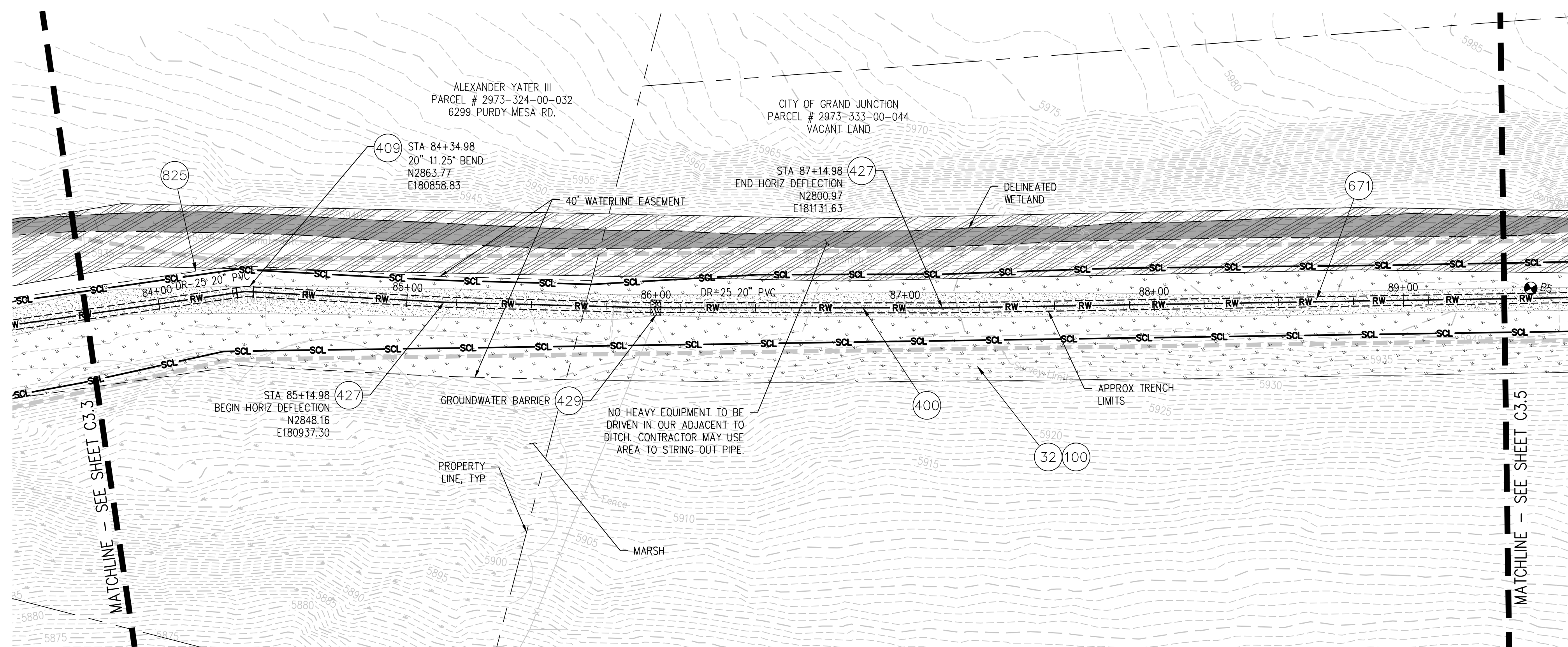
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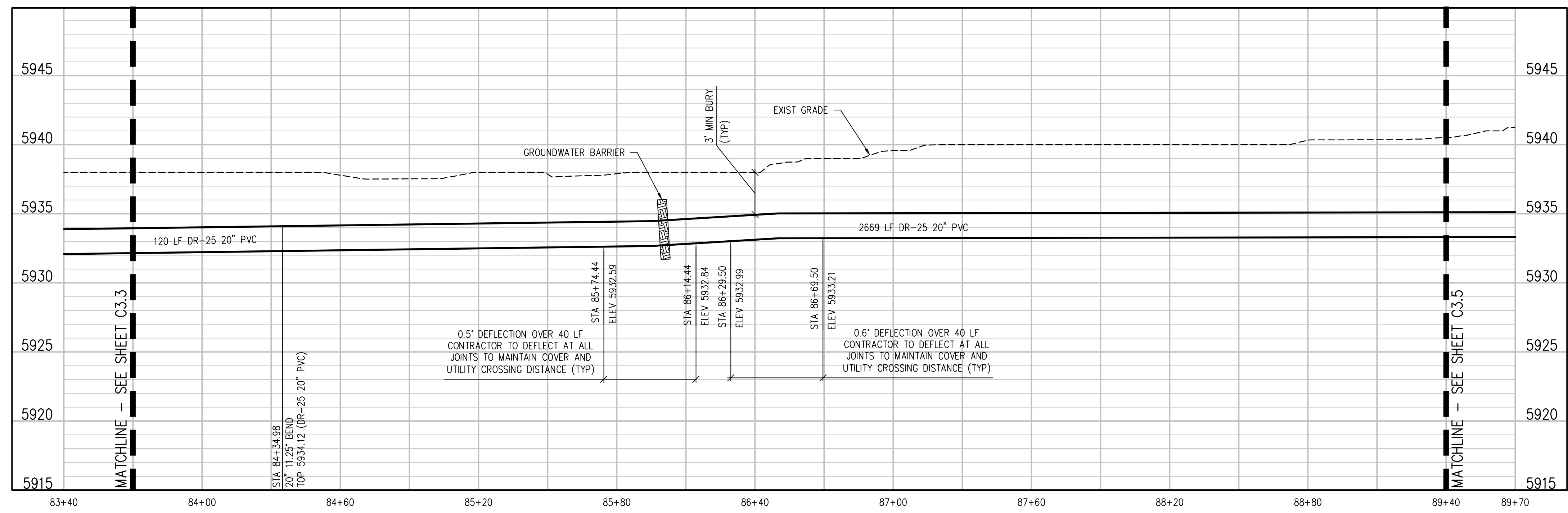
UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE

C3.3



CONSTRUCTION NOTES

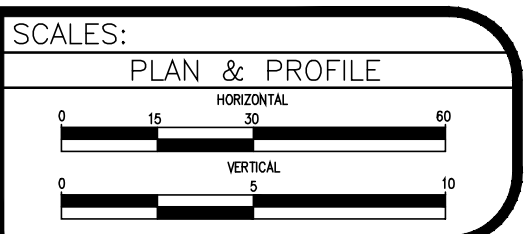
- 32 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES).
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-25 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 427 DEFLECT PIPE AS SHOWN.
- 429 103 - GROUNDWATER BARRIER (INCIDENTAL TO WATER LINE INSTALLATION PAY ITEM)
- 671 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.



- NOTES:**
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 - 3) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

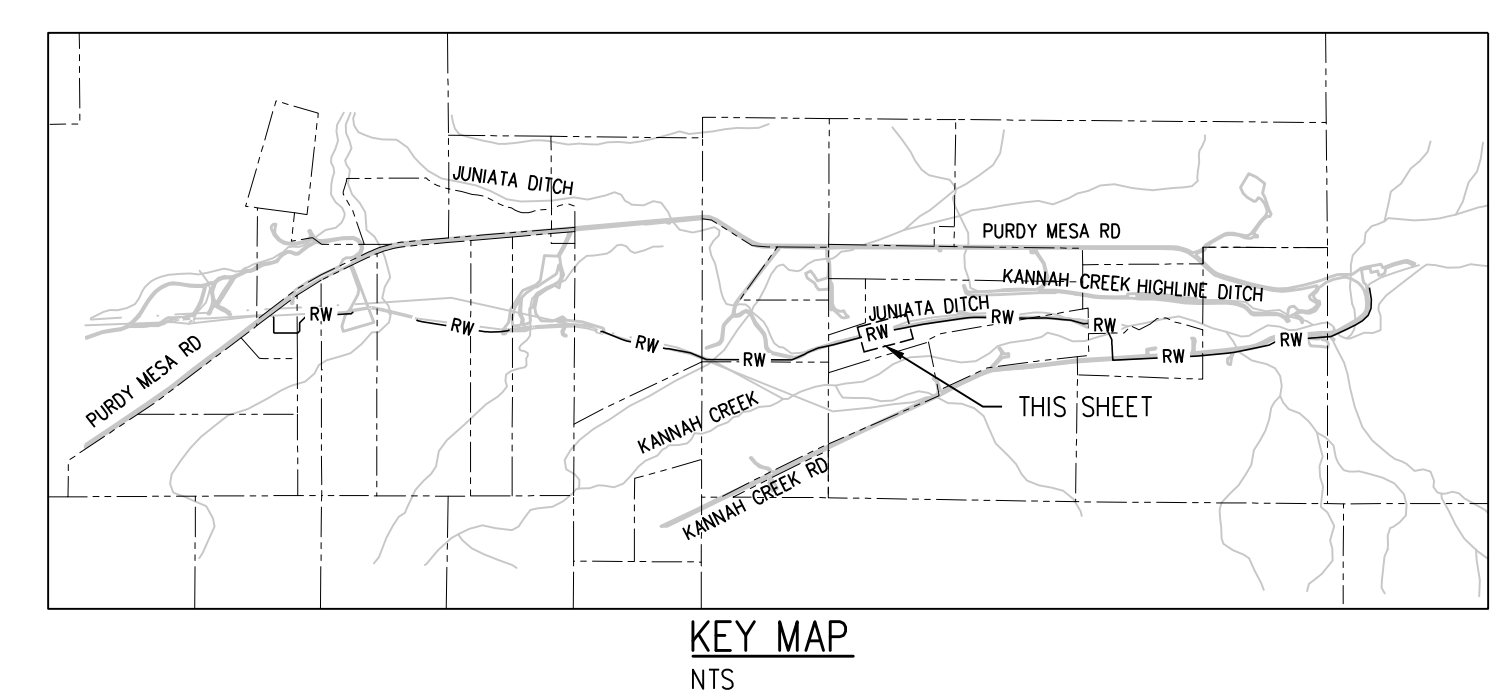
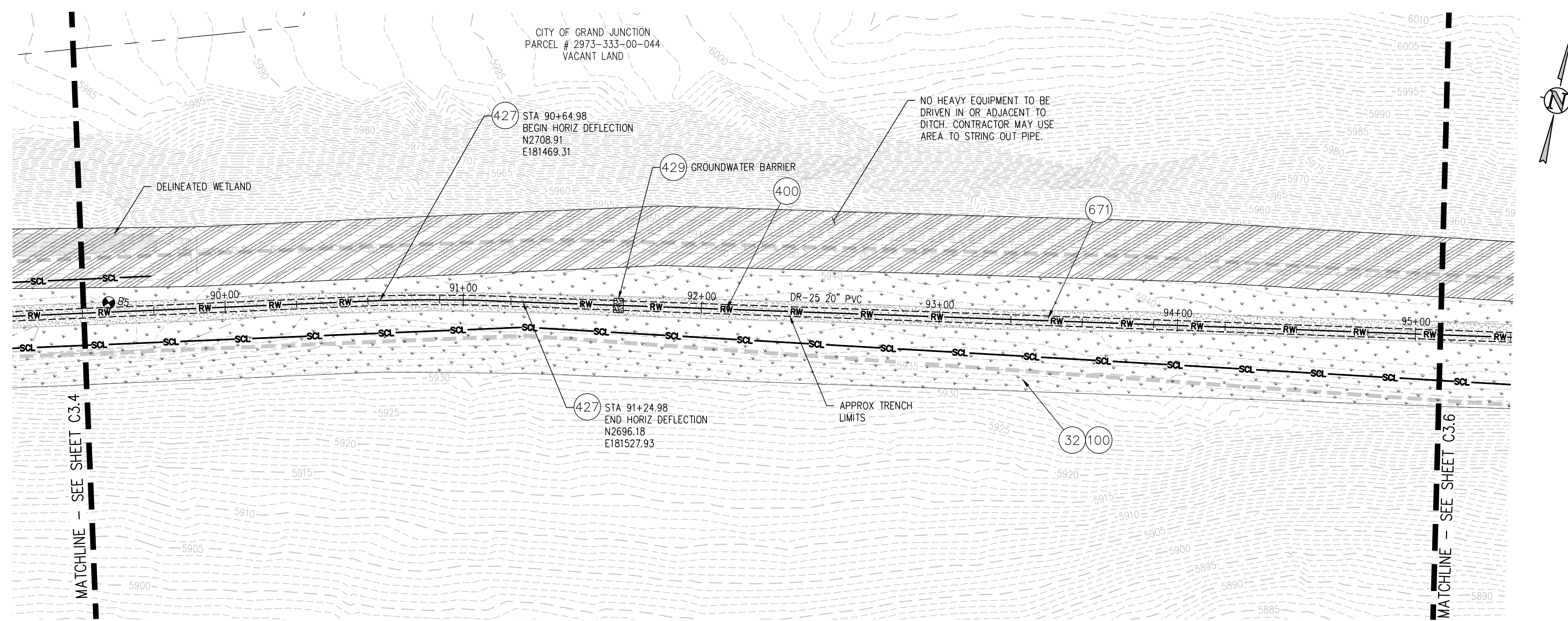
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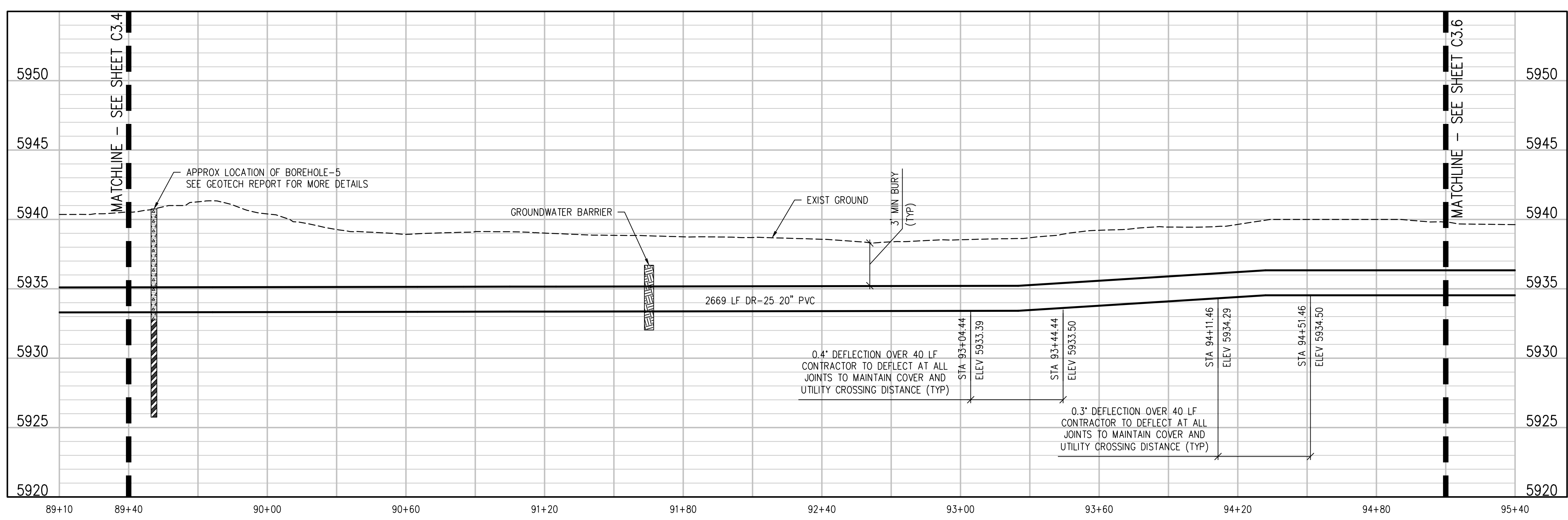
UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE

C3.4



CONSTRUCTION NOTES

- 32 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES).
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
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- 427 DEFLECT PIPE AS SHOWN.
- 429 103 - GROUNDWATER BARRIER (INCIDENTAL TO WATER LINE INSTALLATION PAY ITEM)
- 671 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2\"/>



- NOTES:**
- 1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR LOCATION OF ANY EXISTING ABOVE OR BELOW GROUND PRIVATELY OWNED FEATURES WITHIN THE EASEMENT THAT REQUIRES PROTECTION. FEATURES SHALL BE IDENTIFIED IN THE FIELD AND MARKED ON THE PLANS.
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 - 3) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

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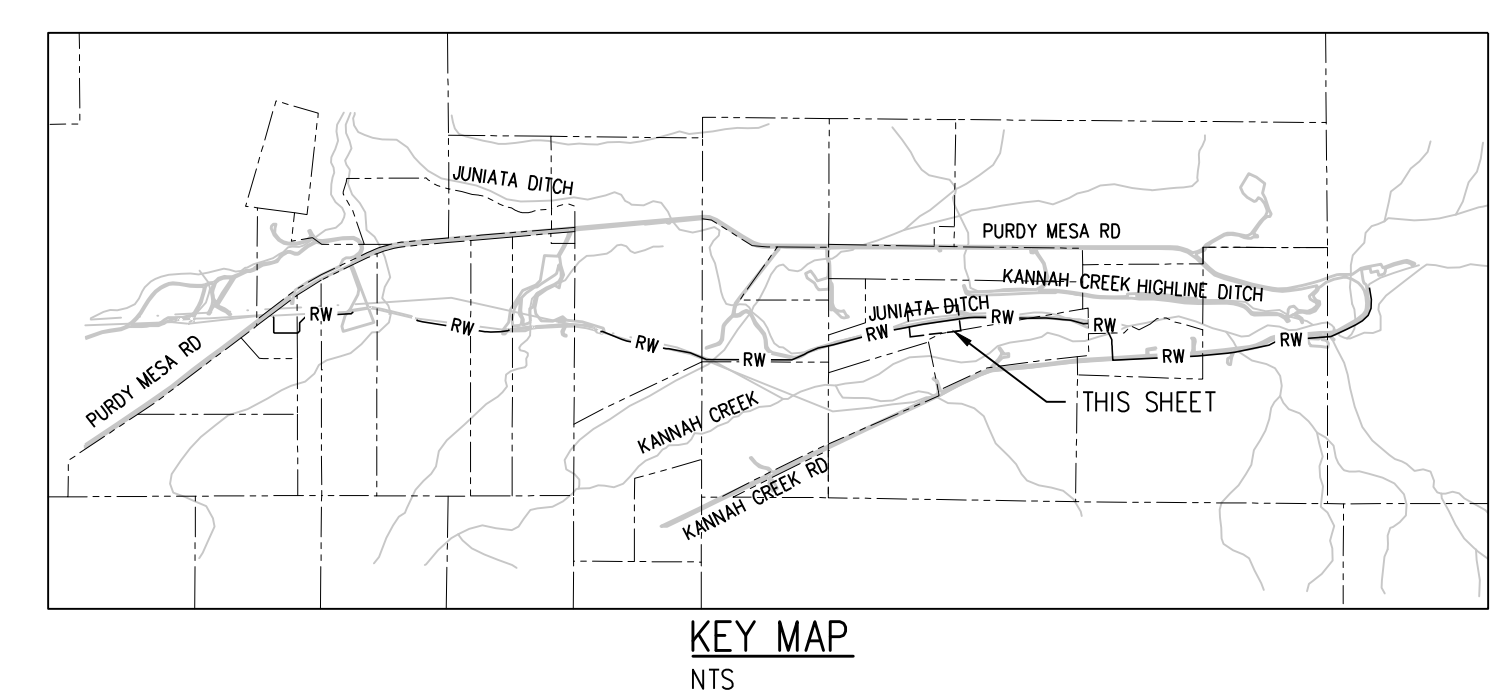
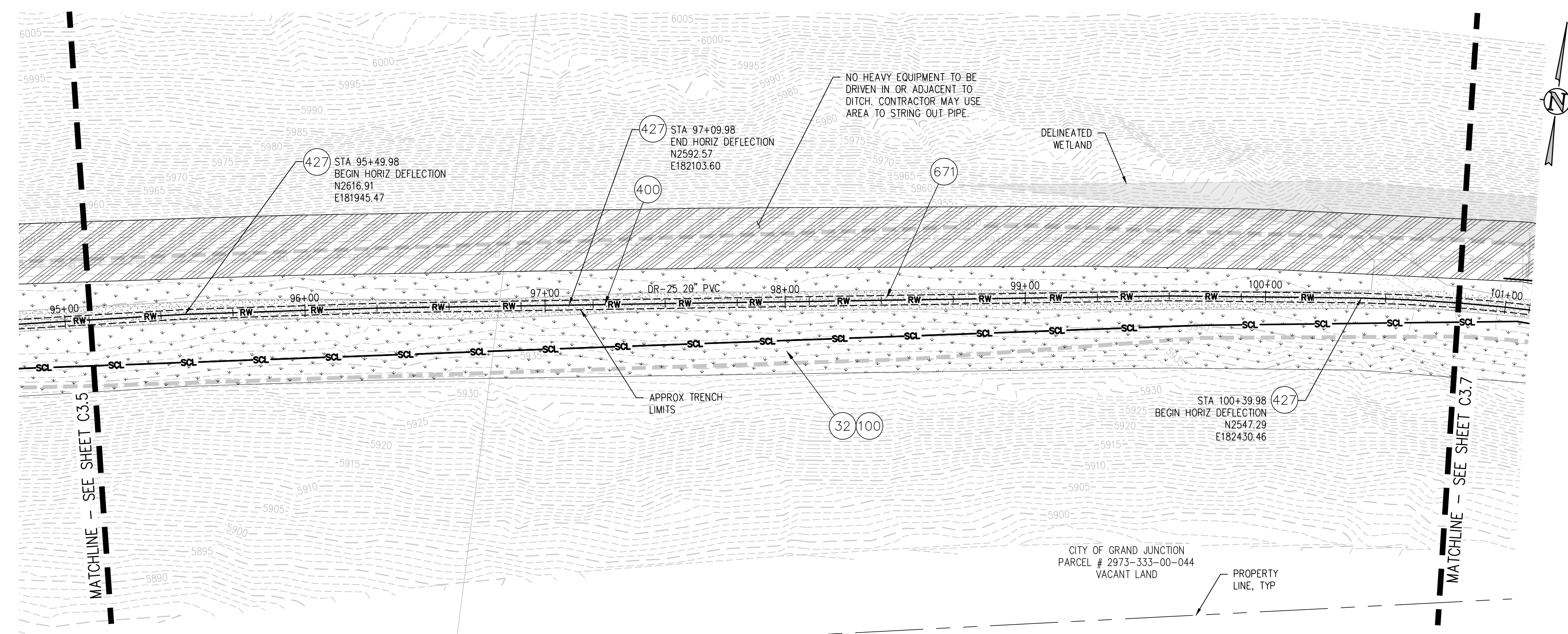
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| 1 | | | ZCF | 03_03_2023 |
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| 3 | | | JJM | 01_05_2023 |
| 4 | | | | |

SCALES:
 PLAN & PROFILE
 HORIZONTAL
 1" = 40'
 VERTICAL
 1" = 5'



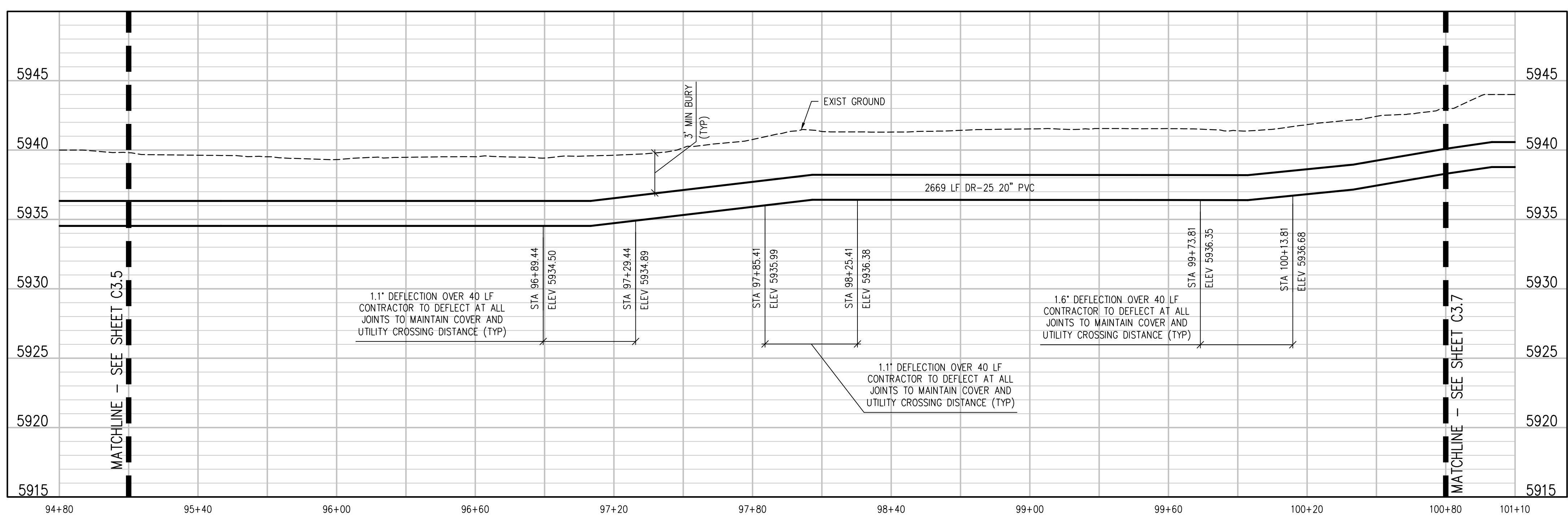
JVA, Inc.
 817 Colorado Avenue, Suite 301
 Glenwood Springs, CO 81601
 970.404.3100
 www.jvajva.com
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**UPPER KANNAH CREEK WATERLINE
 UPPER KANNAH CREEK WATERLINE
 PLAN & PROFILE**



CONSTRUCTION NOTES

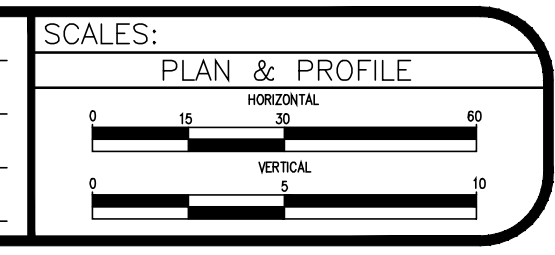
- 32 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES).
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-25 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 427 DEFLECT PIPE AS SHOWN.
- 671 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.



- NOTES:**
- 1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR LOCATION OF ANY EXISTING ABOVE OR BELOW GROUND PRIVATELY OWNED FEATURES WITHIN THE EASEMENT THAT REQUIRES PROTECTION. FEATURES SHALL BE IDENTIFIED IN THE FIELD AND MARKED ON THE PLANS.
 - 2) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR RELOCATION OF EXISTING ABOVE GROUND FEATURES THAT ARE IN CONFLICT WITH THE NEW CONSTRUCTION WITHIN THE EASEMENT AREA.
 - 3) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

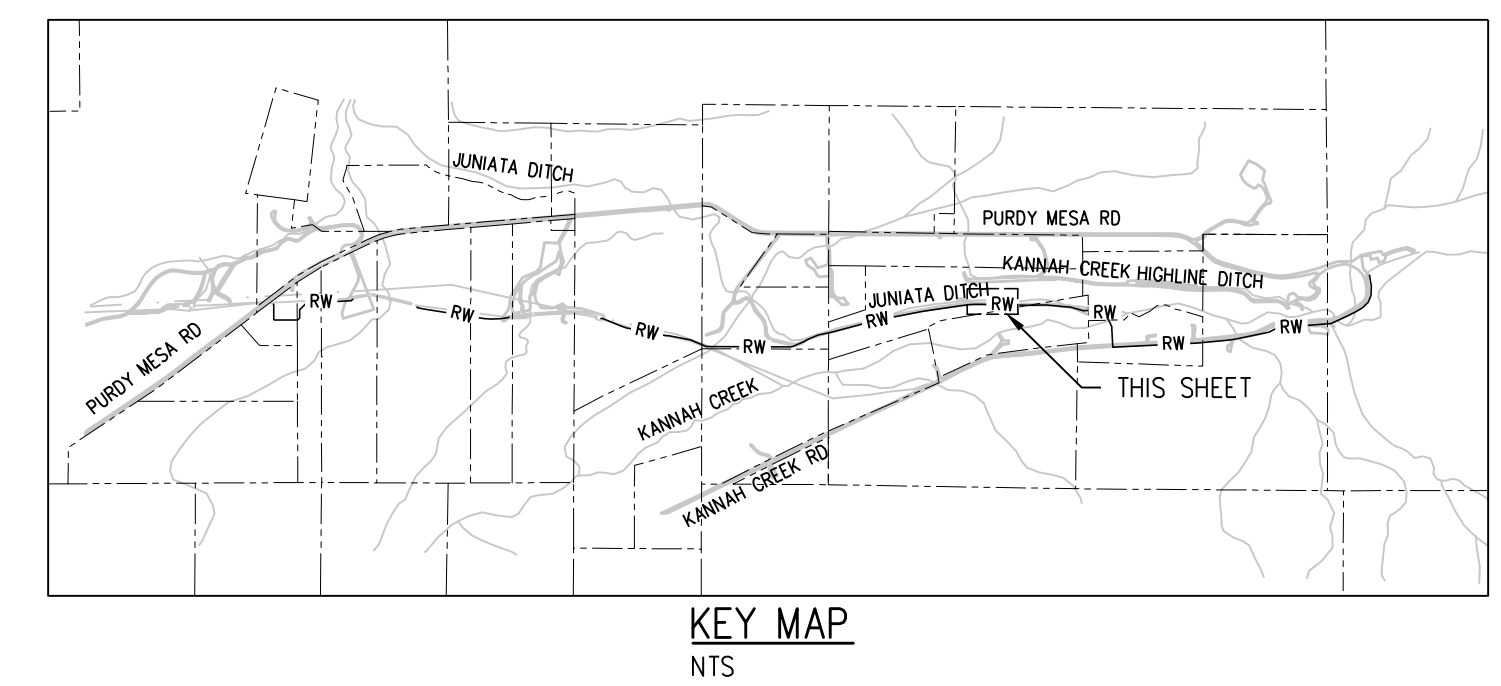
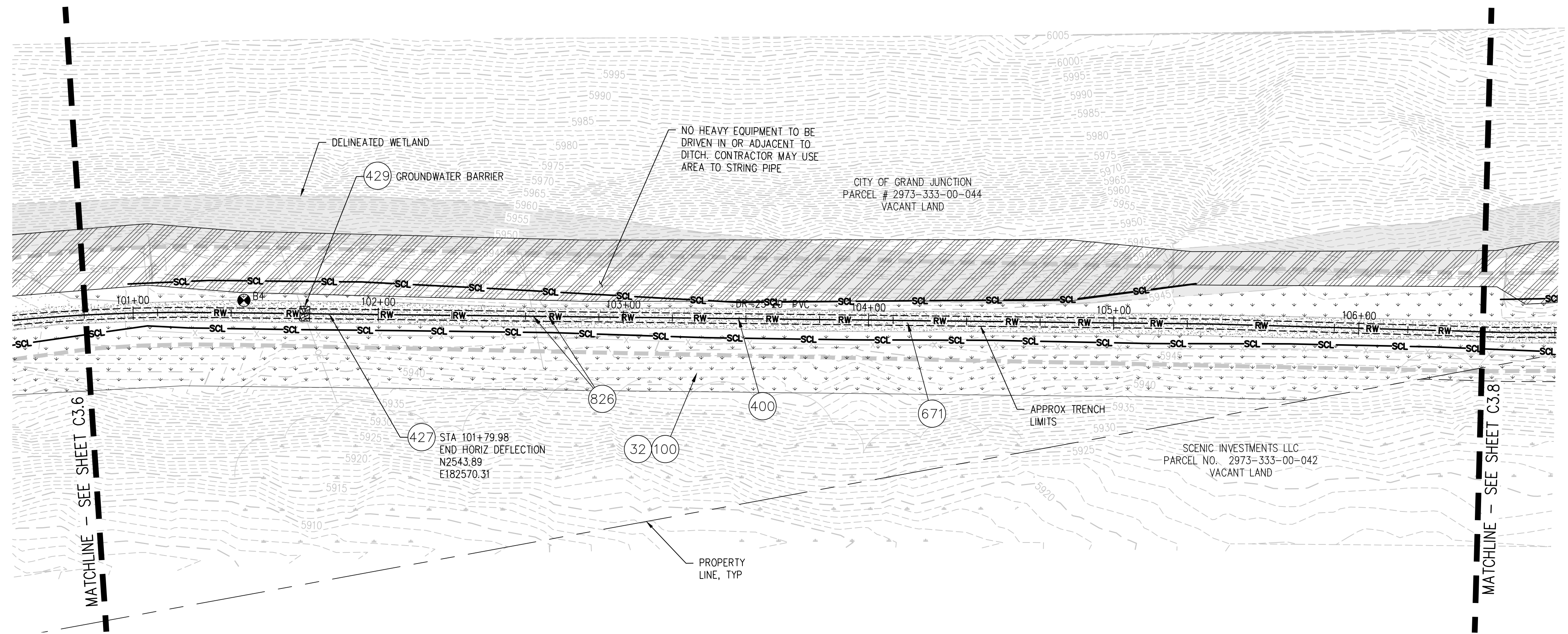
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| 3 | | | JJM | 01.05.2023 |
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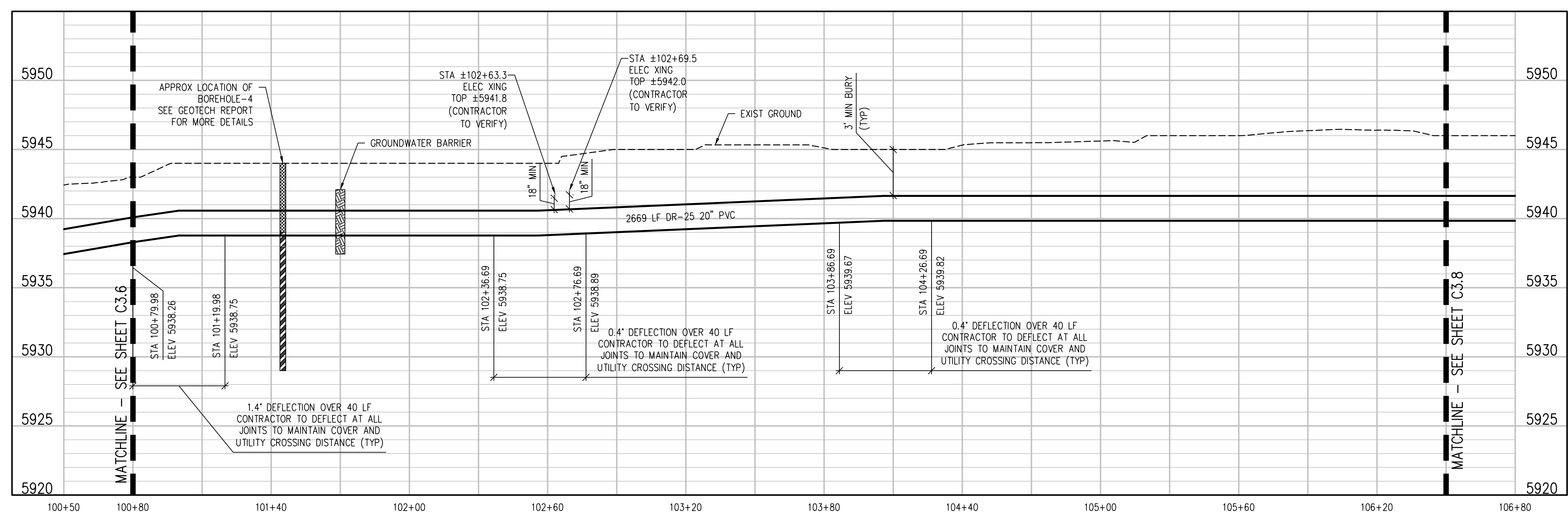
**UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE**

C3.6



CONSTRUCTION NOTES

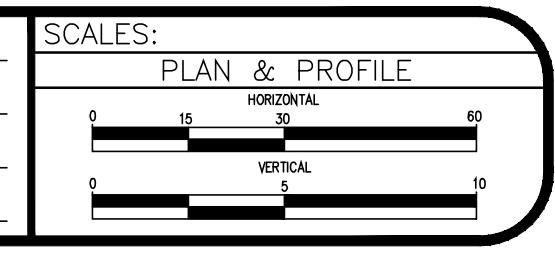
- (32) 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES).
- (100) 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- (400) 102.7/108.2 - WATER MAIN PIPE (C-900 DR-25 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (427) DEFLECT PIPE AS SHOWN.
- (429) 103 - GROUNDWATER BARRIER (INCIDENTAL TO WATER LINE INSTALLATION PAY ITEM)
- (671) 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
- (826) PROTECT EXISTING UTILITY LINE IN PLACE.



- NOTES:**
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 - 3) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

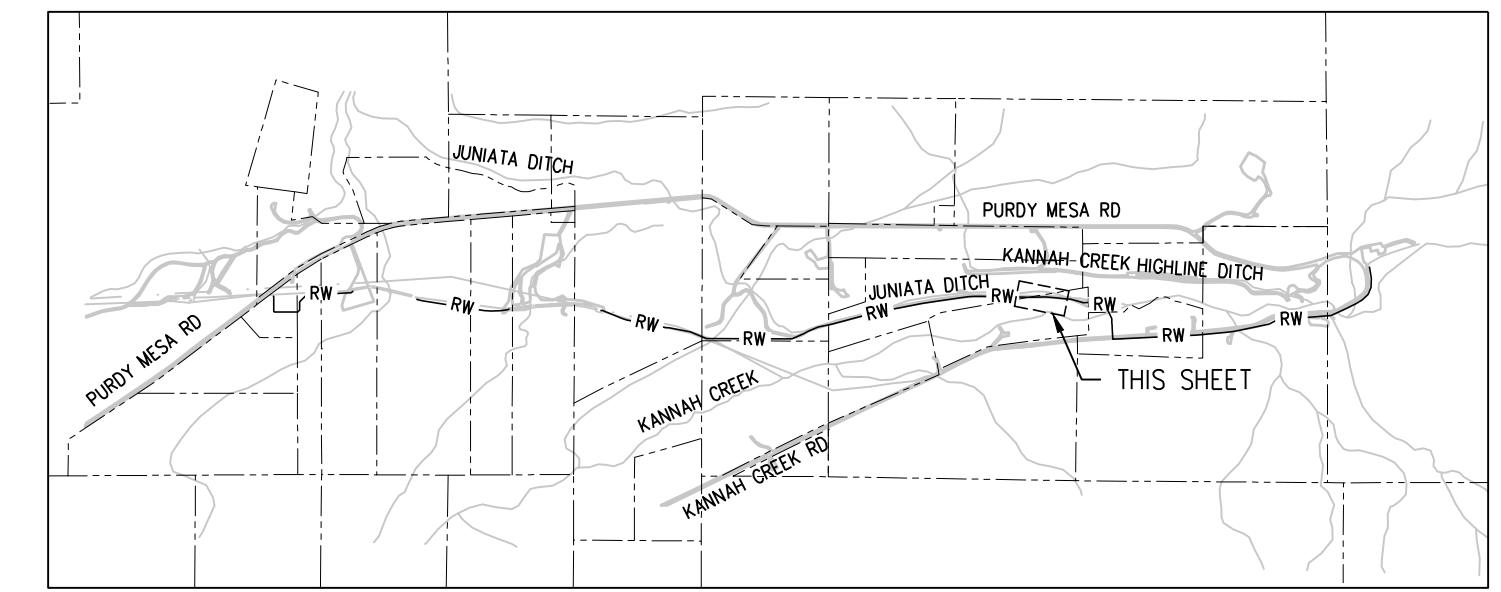
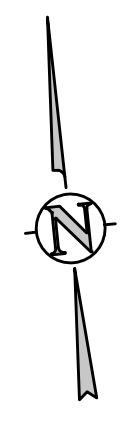
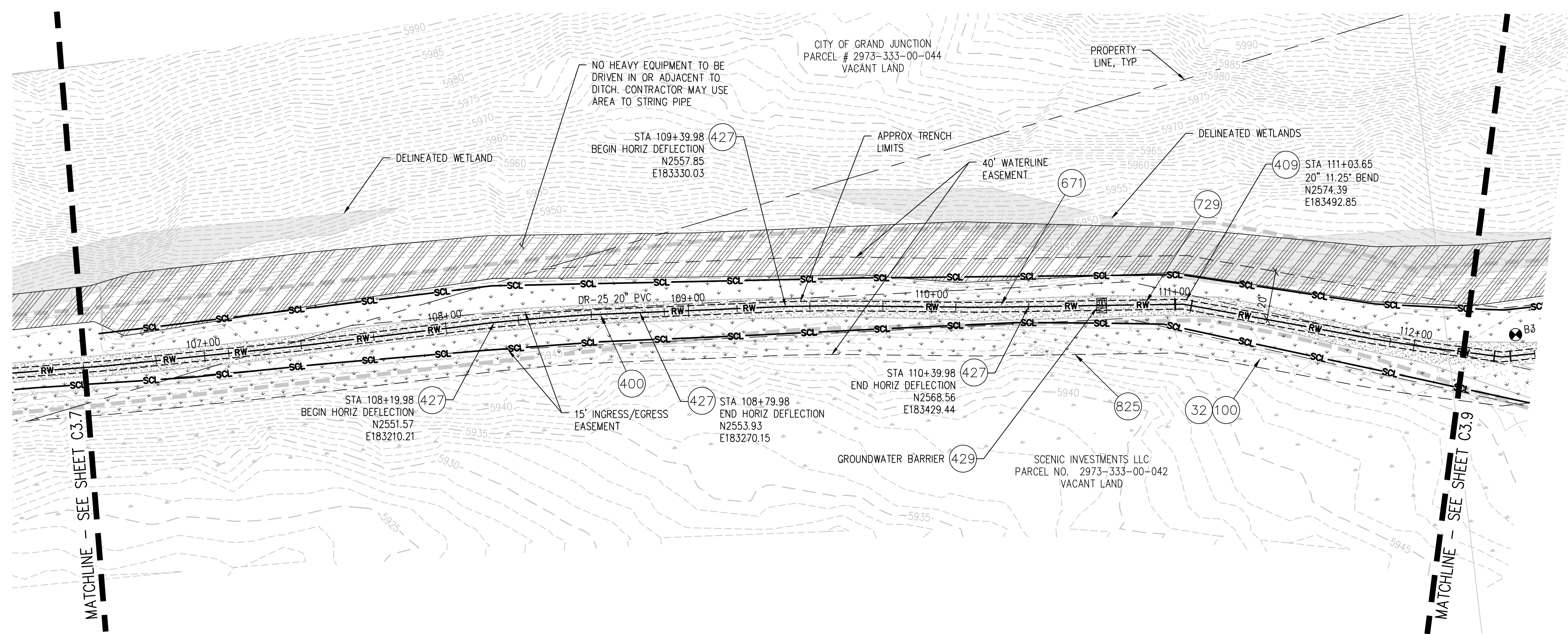
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| REVISION | | | JJM | 01_05_2023 |
| REVISION | | | | |



**UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE**

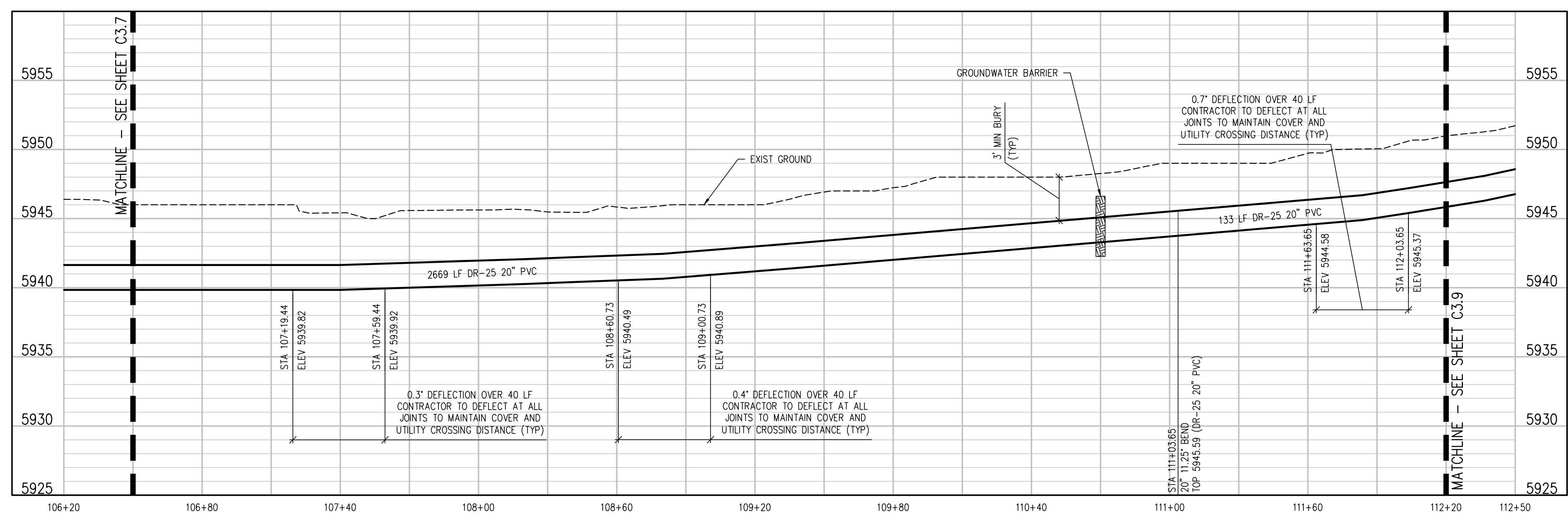
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KEY MAP
NTS

CONSTRUCTION NOTES

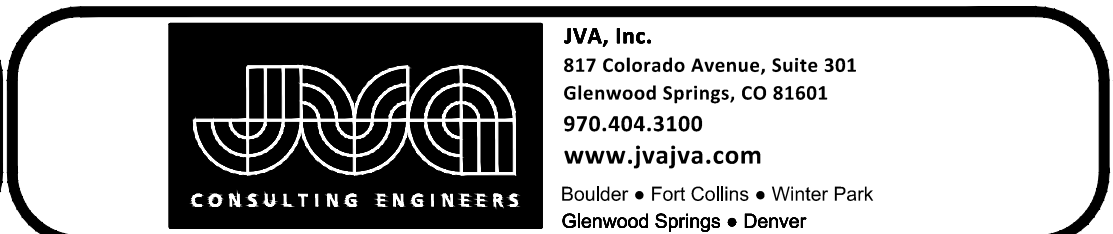
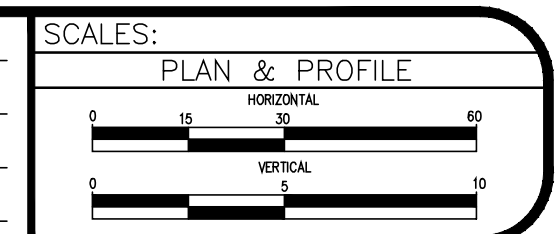
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- (409) 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- (427) DEFLECT PIPE AS SHOWN.
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- (671) 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
- (729) 207 - WETLAND TOPSOIL REMOVAL AND STOCKPILE (CONTRACTOR SHALL SALVAGE WETLAND TOPSOIL FROM LIMITS SHOWN ON THE PLAN AND PLACE IN STOCKPILES OR WINDROWS TO BE REUSED FOR SURFACE RESTORATION)
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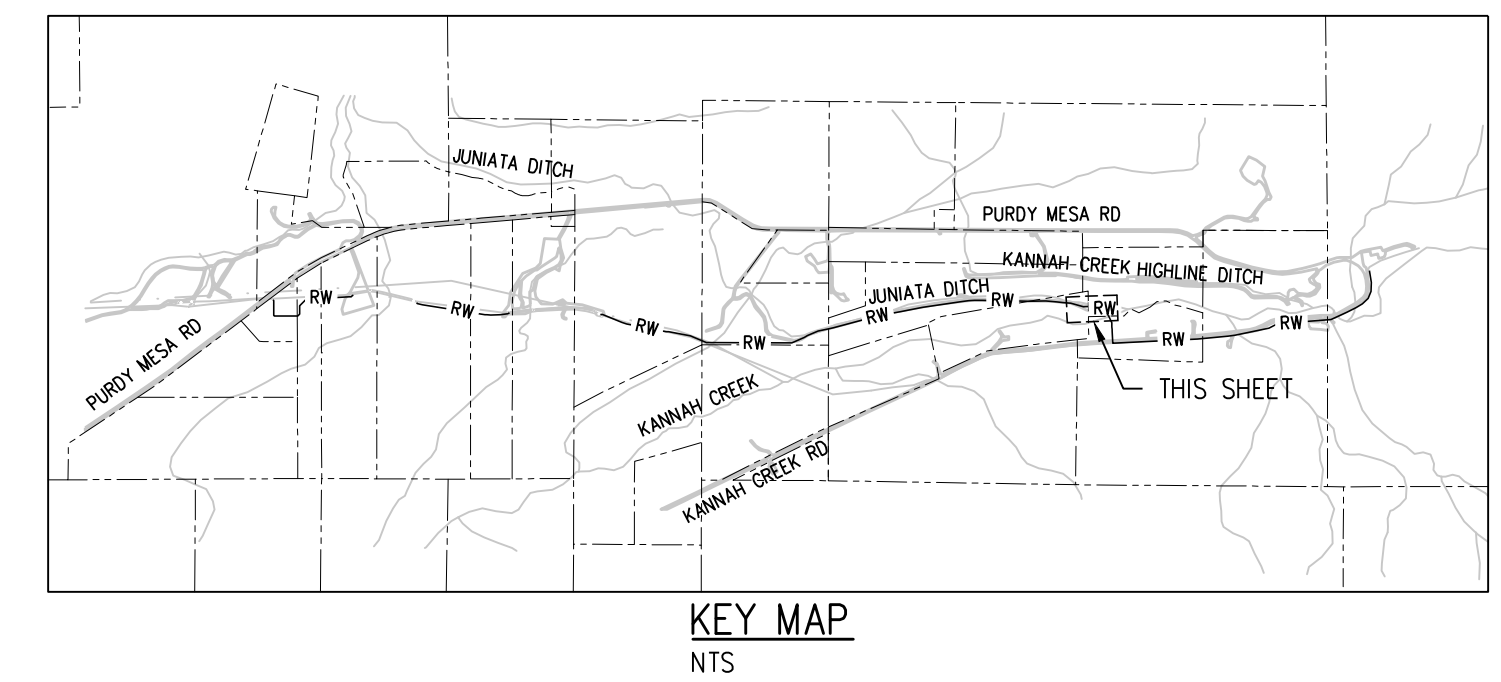
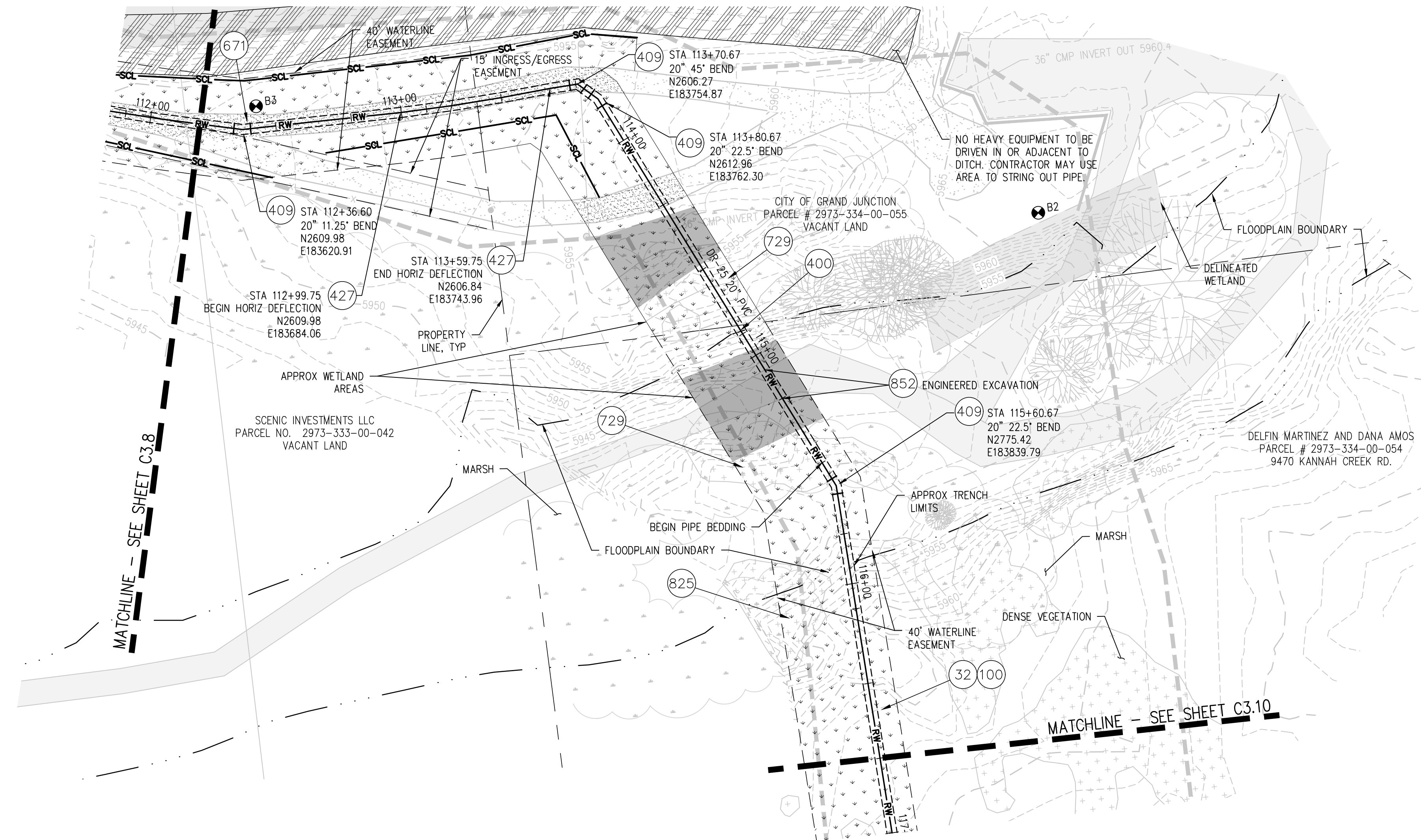
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| 3 | | | JJM | 01 05, 2023 |
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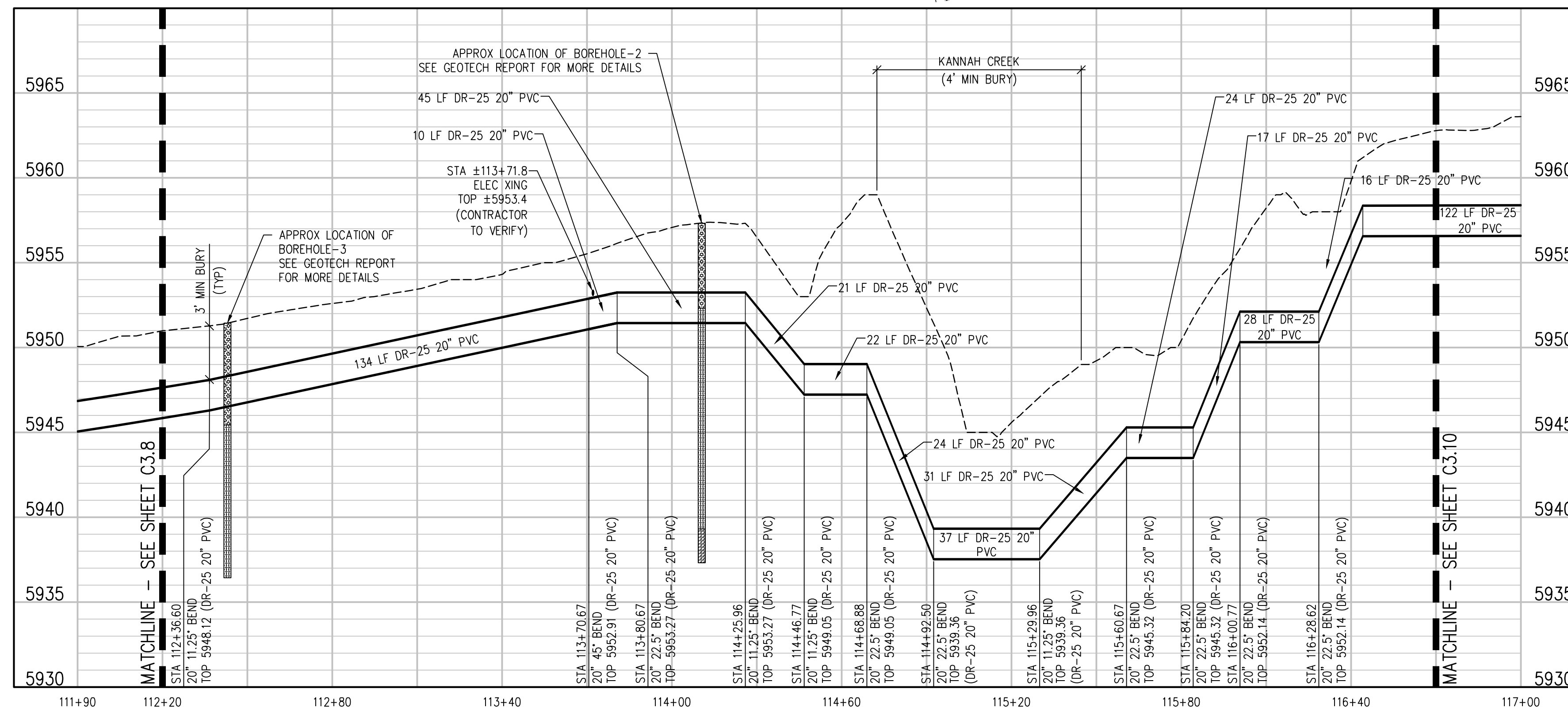
**UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE**

C3.8



CONSTRUCTION NOTES

- 32 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES).
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-25 20" PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 427 DEFLECT PIPE AS SHOWN.
- 671 304 - WASHED ROCK SURFACE COURSE FOR GRAVEL DRIVEWAYS. MATCH EXISTING TYPE. THICKNESS IS 2" MIN. AND 3" MAX.
- 729 207 - WETLAND TOPSOIL REMOVAL AND STOCKPILE (CONTRACTOR SHALL SALVAGE WETLAND TOPSOIL FROM LIMITS SHOWN ON THE PLAN AND PLACE IN STOCKPILES OR WINDROWS TO BE REUSED FOR SURFACE RESTORATION)
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- 852 CONTRACTOR IS RESPONSIBLE FOR HIRING A REGISTERED ENGINEER TO DESIGN, COORDINATE, AND RESTORATION OF THE OPEN CUT CREEK CROSSING.



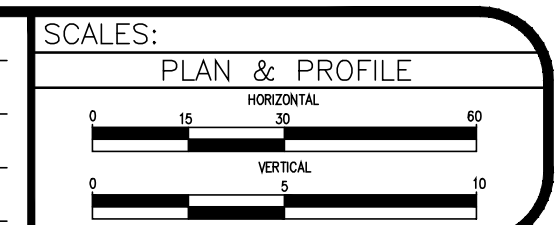
NOTES:

- 1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR LOCATION OF ANY EXISTING ABOVE OR BELOW GROUND PRIVATELY OWNED FEATURES WITHIN THE EASEMENT THAT REQUIRES PROTECTION. FEATURES SHALL BE IDENTIFIED IN THE FIELD AND MARKED ON THE PLANS.
- 2) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR RELOCATION OF EXISTING ABOVE GROUND FEATURES THAT ARE IN CONFLICT WITH THE NEW CONSTRUCTION WITHIN THE EASEMENT AREA.
- 3) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

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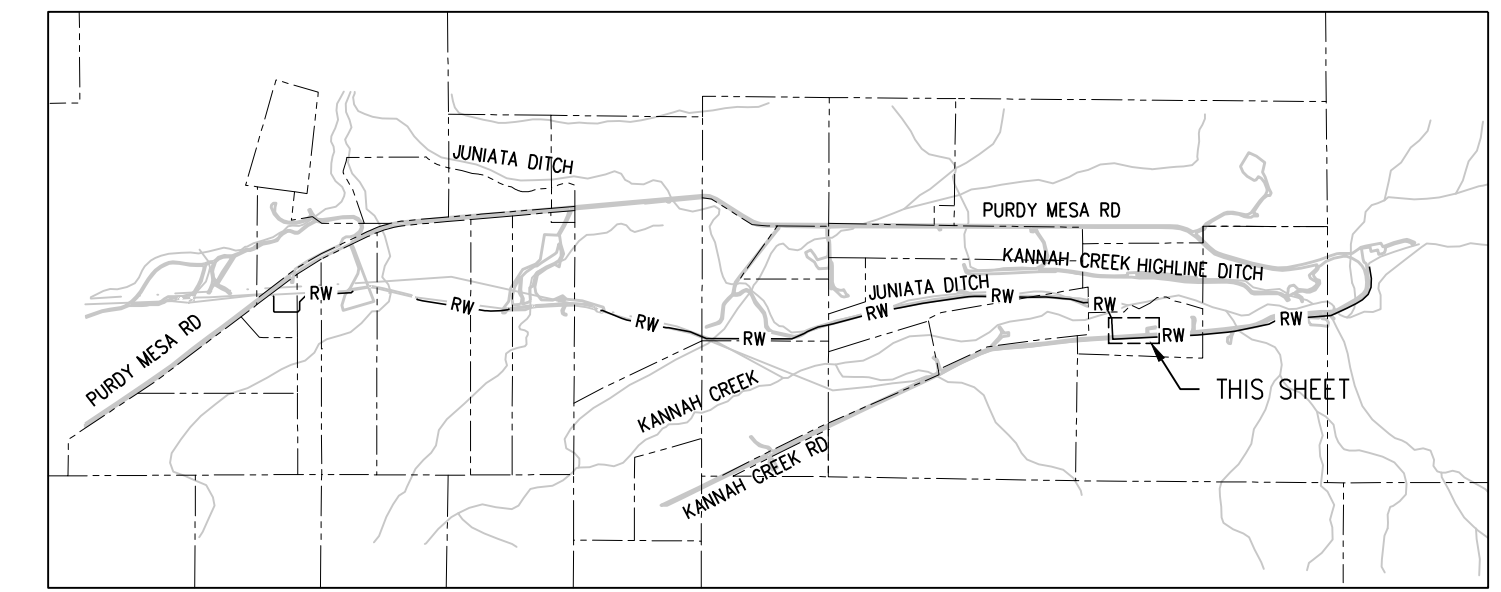
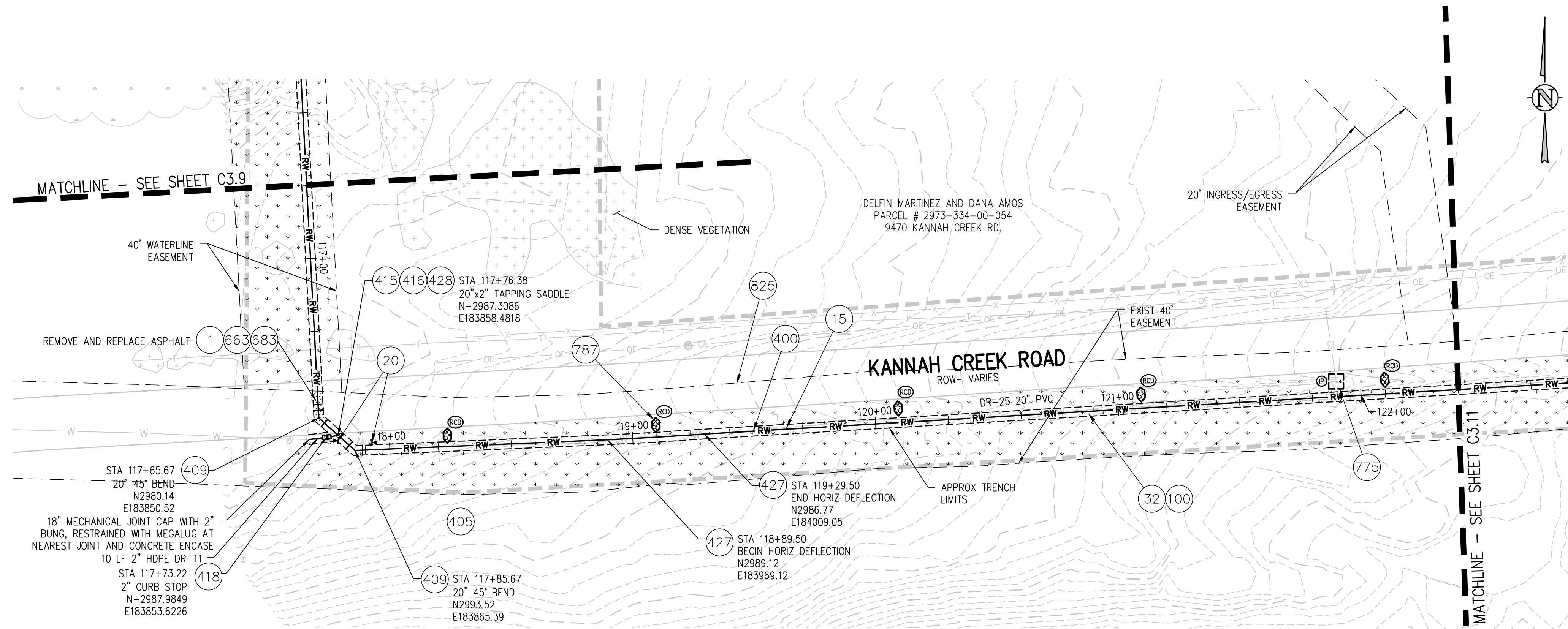
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| DRAWN BY | ZCF | DATE | 03 03, 2023 |
| DESIGNED BY | LAL/ZCF | DATE | 03 03, 2023 |
| CHECKED BY | JJM | DATE | 01 05, 2023 |
| APPROVED BY | | DATE | |



**UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE**

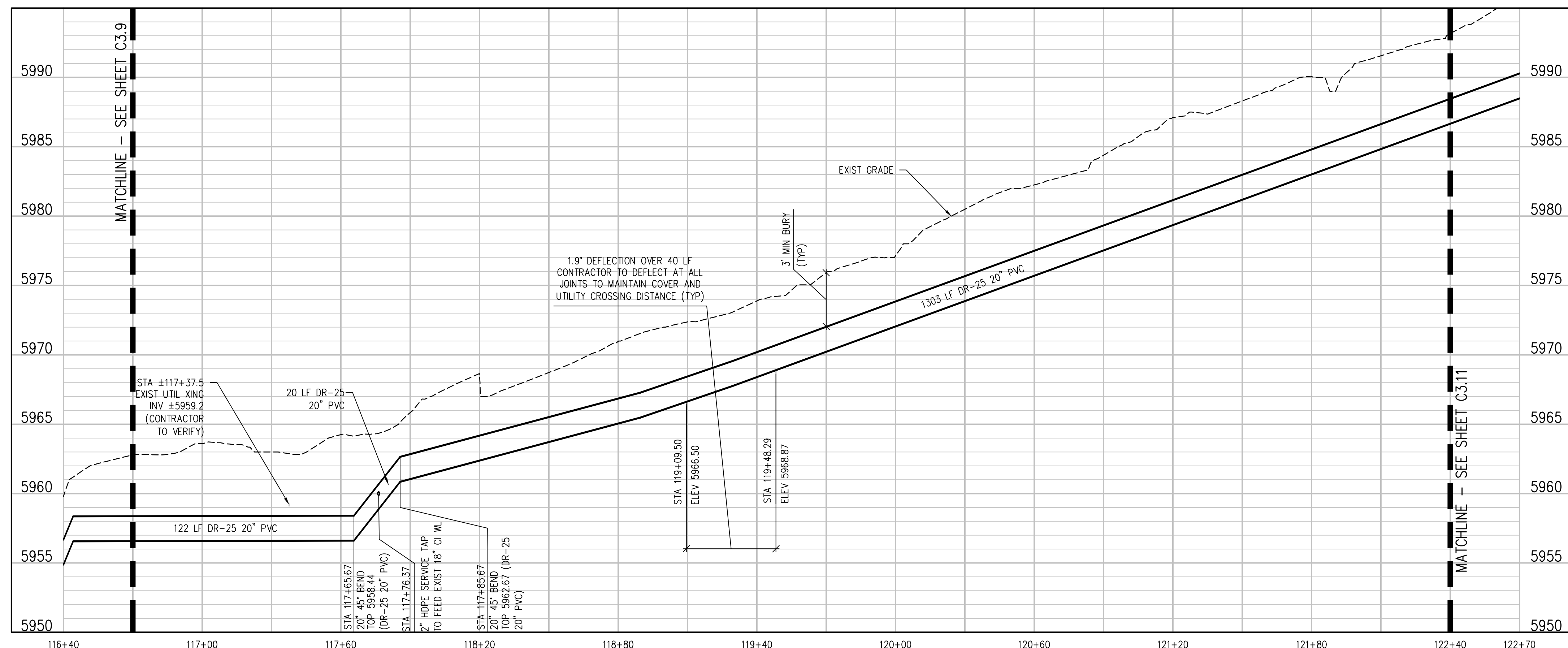
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KEY MAP
NTS

CONSTRUCTION NOTES

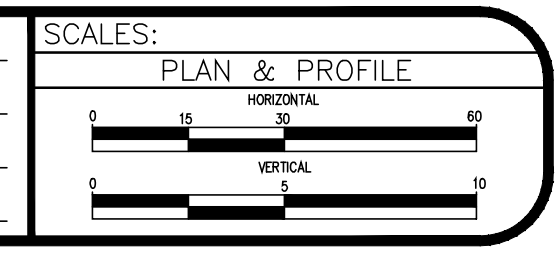
- 1 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15 202 - REMOVAL OF PIPE AS SHOWN.
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 32 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES).
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 102 210 - RESET FENCE. (HEIGHT AND MATERIAL AS SHOW ON PLAN)
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-25 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 405 102.8G/102.8H/108.3 - AIR VALVE AND VAULT (SIZE AS SHOWN).
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 415 102.8K/108.4 - TAPPING SADDLE (SIZE AS SHOWN ON PLAN)
- 416 102.8J/108.4 - CORPORATION STOP (SIZE AS SHOWN ON PLAN)
- 418 102.8/108.4 - CURB STOP (SIZE AS SHOWN ON PLAN)
- 427 DEFLECT PIPE AS SHOWN.
- 428 102.7/108.3 - WATER MAIN (HDPE DR-11) (SIZE AS SHOWN) INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL
- 663 304 - AGGREGATE BASE COURSE (CLASS 6) (6" THICK)
- 683 401.08 - HOT BITUMINOUS PAVEMENT (PATCHING) (6" THICK) (GRADING SX, BINDER GRADE PG 64-22) (THREE 2" LIFTS)
- 775 208 - STORM DRAIN INLET PROTECTION (EROSION CONTROL LOG) (AS SHOWN AND PER DETAIL)
- 787 208 - ROCK CHECK DAM
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.
- 826 PROTECT EXISTING UTILITY LINE IN PLACE.



- NOTES:**
- 1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR LOCATION OF ANY EXISTING ABOVE OR BELOW GROUND PRIVATELY OWNED FEATURES WITHIN THE EASEMENT THAT REQUIRES PROTECTION. FEATURES SHALL BE IDENTIFIED IN THE FIELD AND MARKED ON THE PLANS.
 - 2) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR RELOCATION OF EXISTING ABOVE GROUND FEATURES THAT ARE IN CONFLICT WITH THE NEW CONSTRUCTION WITHIN THE EASEMENT AREA.
 - 3) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

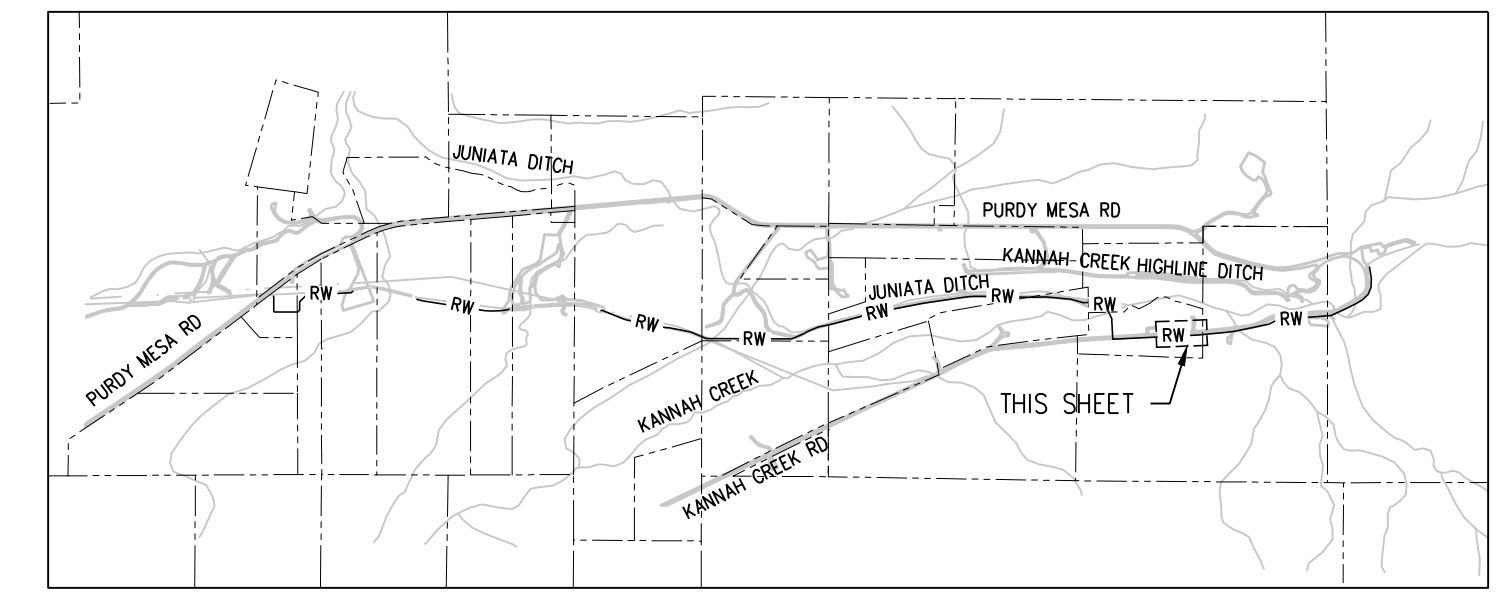
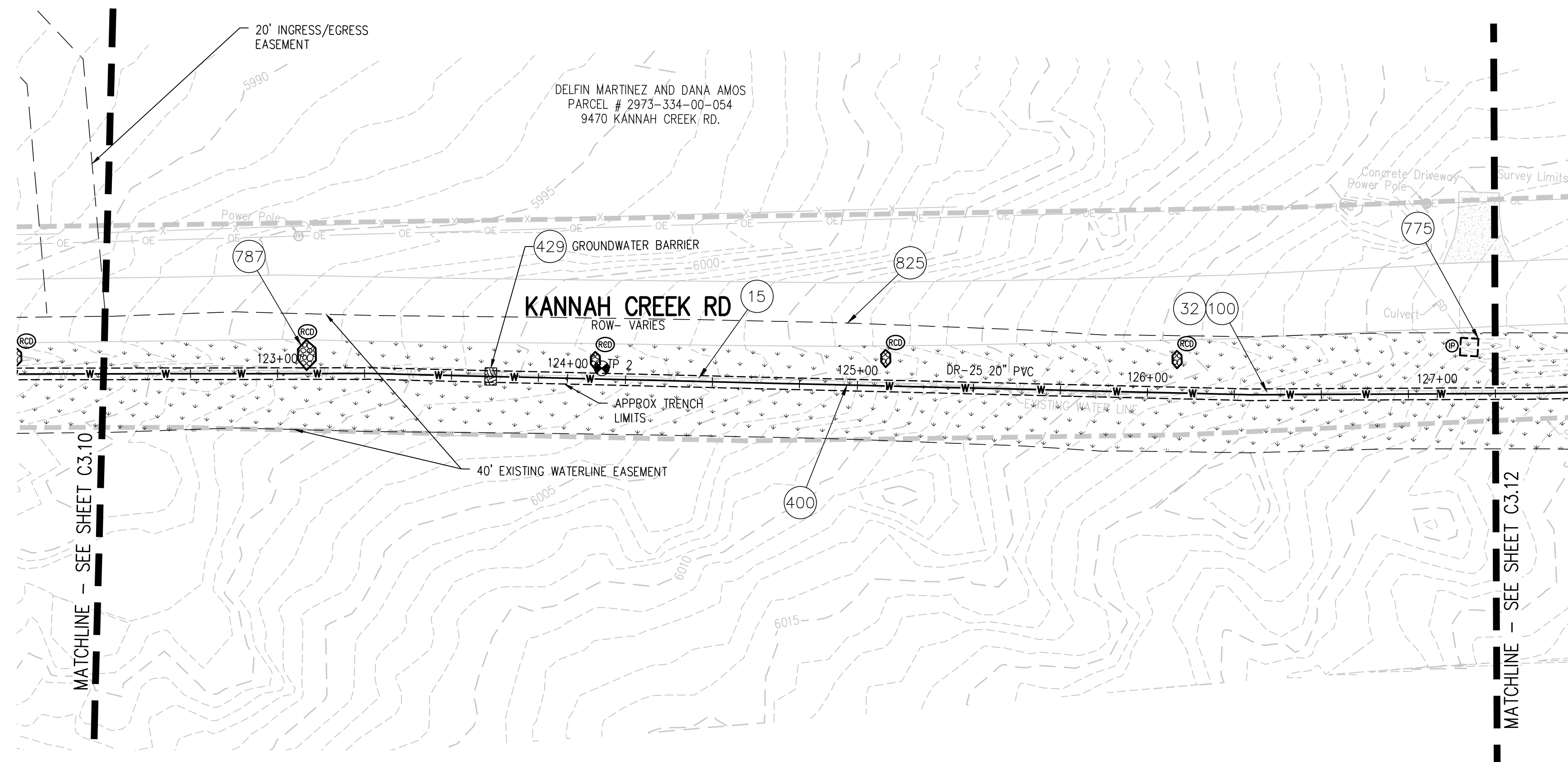
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| 2 | | | LAL/ZCF | 03/03/2023 |
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UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE

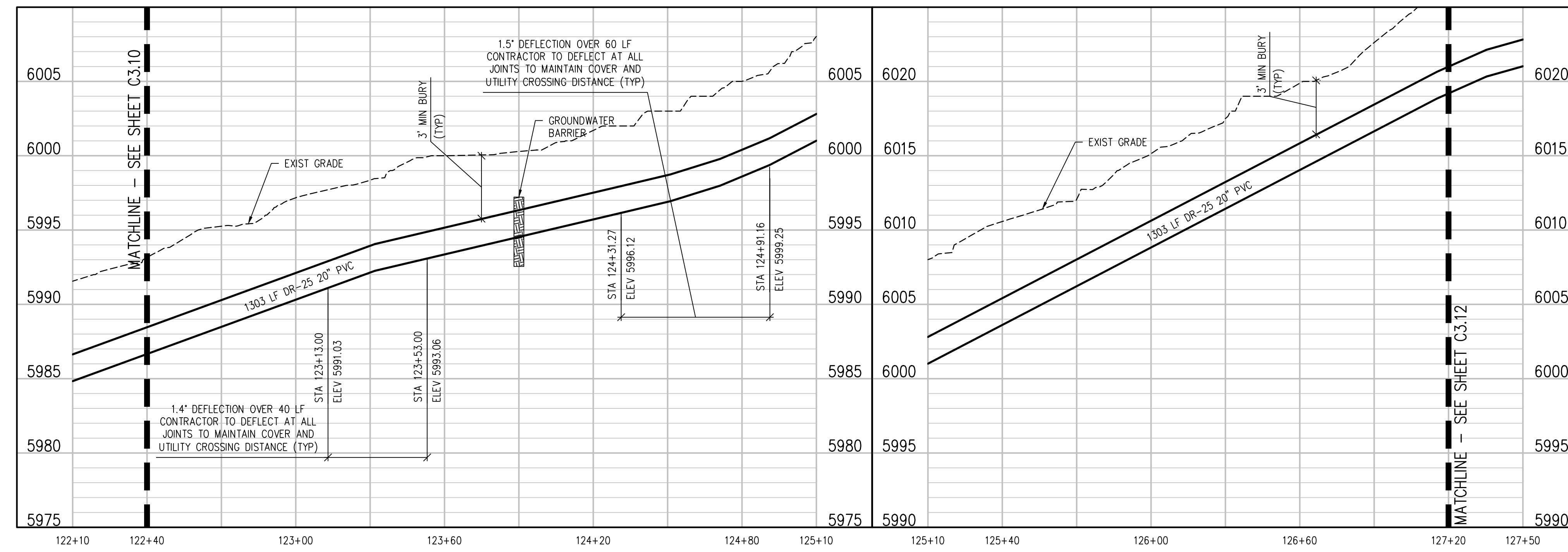
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KEY MAP
NTS

CONSTRUCTION NOTES

- 15 202 - REMOVAL OF PIPE AS SHOWN.
- 32 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES).
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-25 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 429 103 - GROUNDWATER BARRIER (INCIDENTAL TO WATER LINE INSTALLATION PAY ITEM)
- 775 208 - STORM DRAIN INLET PROTECTION (EROSION CONTROL LOG) (AS SHOWN AND PER DETAIL)
- 787 208 - ROCK CHECK DAM
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.

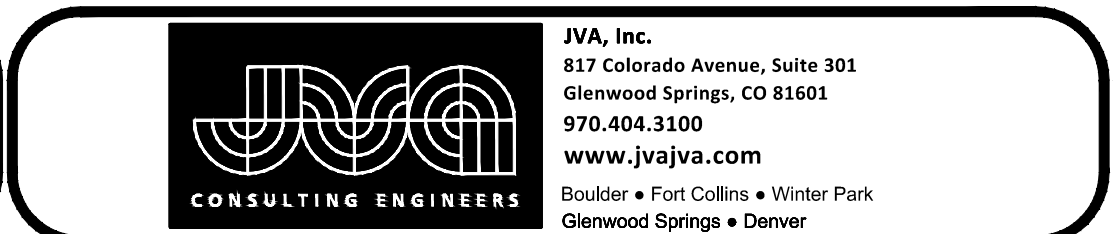
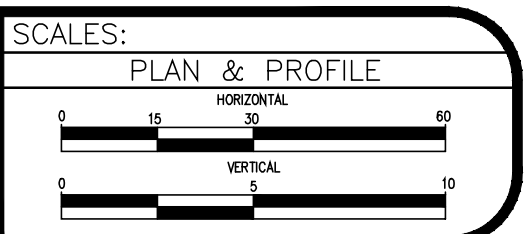


- NOTES:**
- 1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR LOCATION OF ANY EXISTING ABOVE OR BELOW GROUND PRIVATELY OWNED FEATURES WITHIN THE EASEMENT THAT REQUIRES PROTECTION. FEATURES SHALL BE IDENTIFIED IN THE FIELD AND MARKED ON THE PLANS.
 - 2) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR RELOCATION OF EXISTING ABOVE GROUND FEATURES THAT ARE IN CONFLICT WITH THE NEW CONSTRUCTION WITHIN THE EASEMENT AREA
 - 3) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

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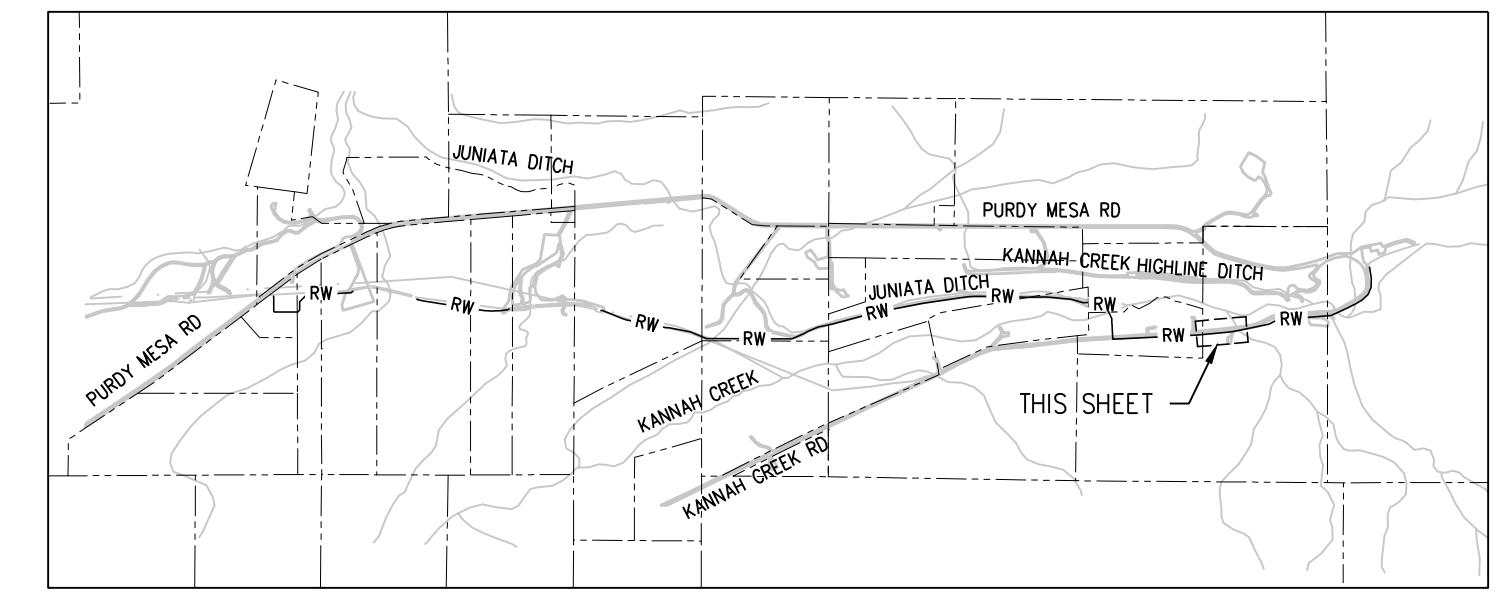
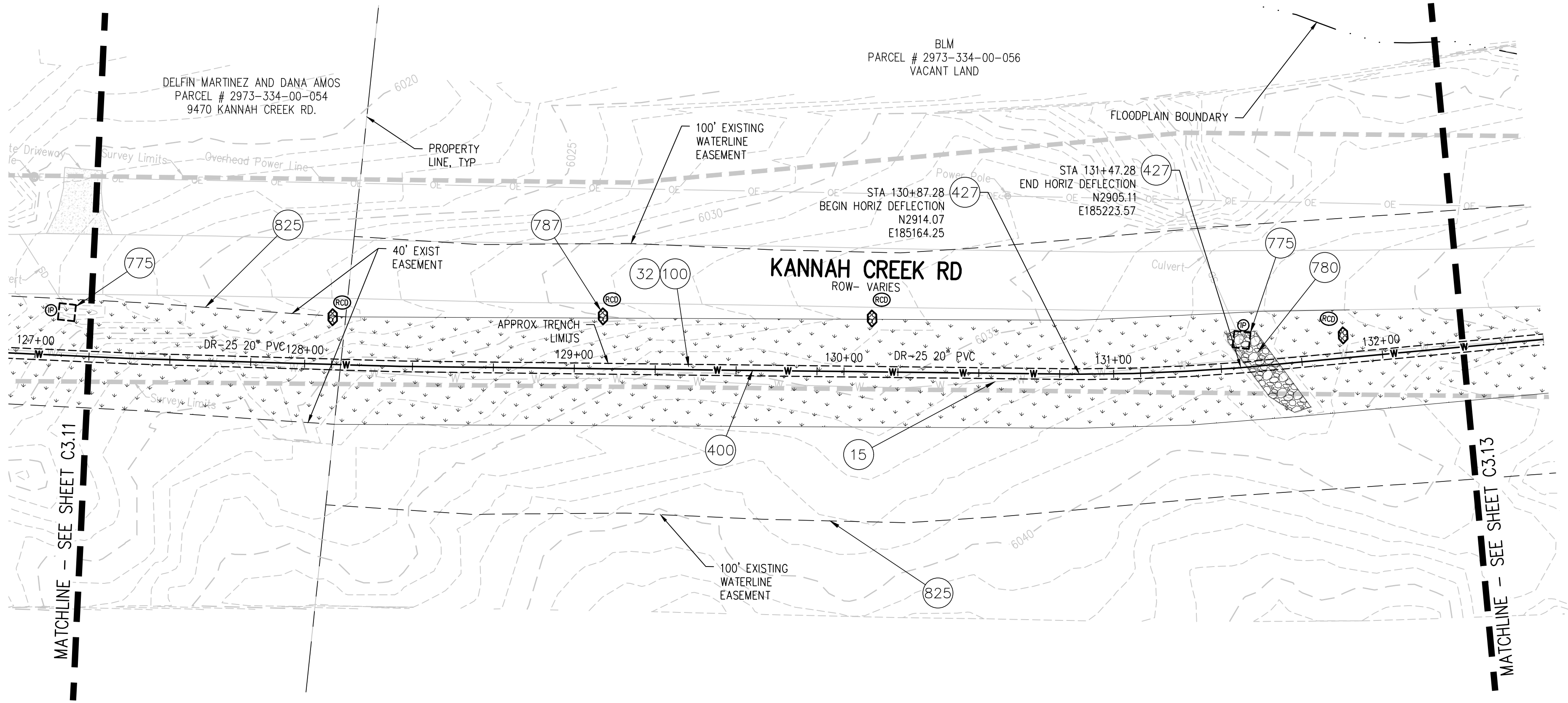
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| CHECKED BY | JJM | DATE | 01 05, 2023 |
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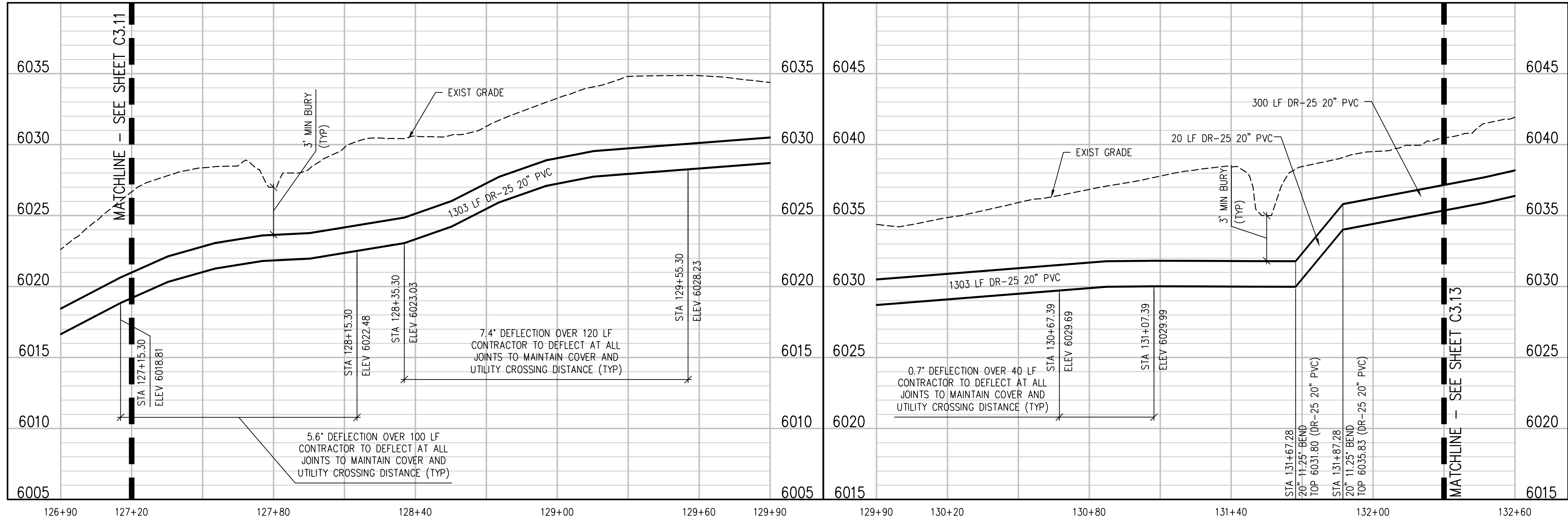
**UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE**

C3.11



CONSTRUCTION NOTES

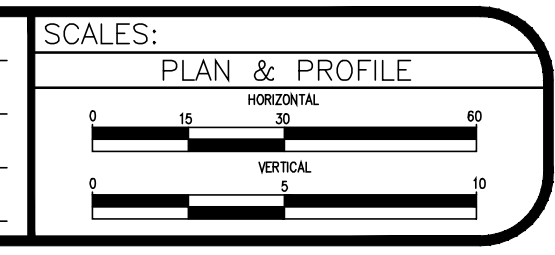
- 15 202 - REMOVAL OF PIPE AS SHOWN.
- 32 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES).
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-25 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 427 DEFLECT PIPE AS SHOWN.
- 775 208 - STORM DRAIN INLET PROTECTION (EROSION CONTROL LOG) (AS SHOWN AND PER DETAIL)
- 780 208 - RIP-RAP STORM DRAIN CULVERT (TYPE d50 = 18")
- 787 208 - ROCK CHECK DAM
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.



- NOTES:**
- 1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR LOCATION OF ANY EXISTING ABOVE OR BELOW GROUND PRIVATELY OWNED FEATURES WITHIN THE EASEMENT THAT REQUIRES PROTECTION. FEATURES SHALL BE IDENTIFIED IN THE FIELD AND MARKED ON THE PLANS.
 - 2) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR RELOCATION OF EXISTING ABOVE GROUND FEATURES THAT ARE IN CONFLICT WITH THE NEW CONSTRUCTION WITHIN THE EASEMENT AREA.
 - 3) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

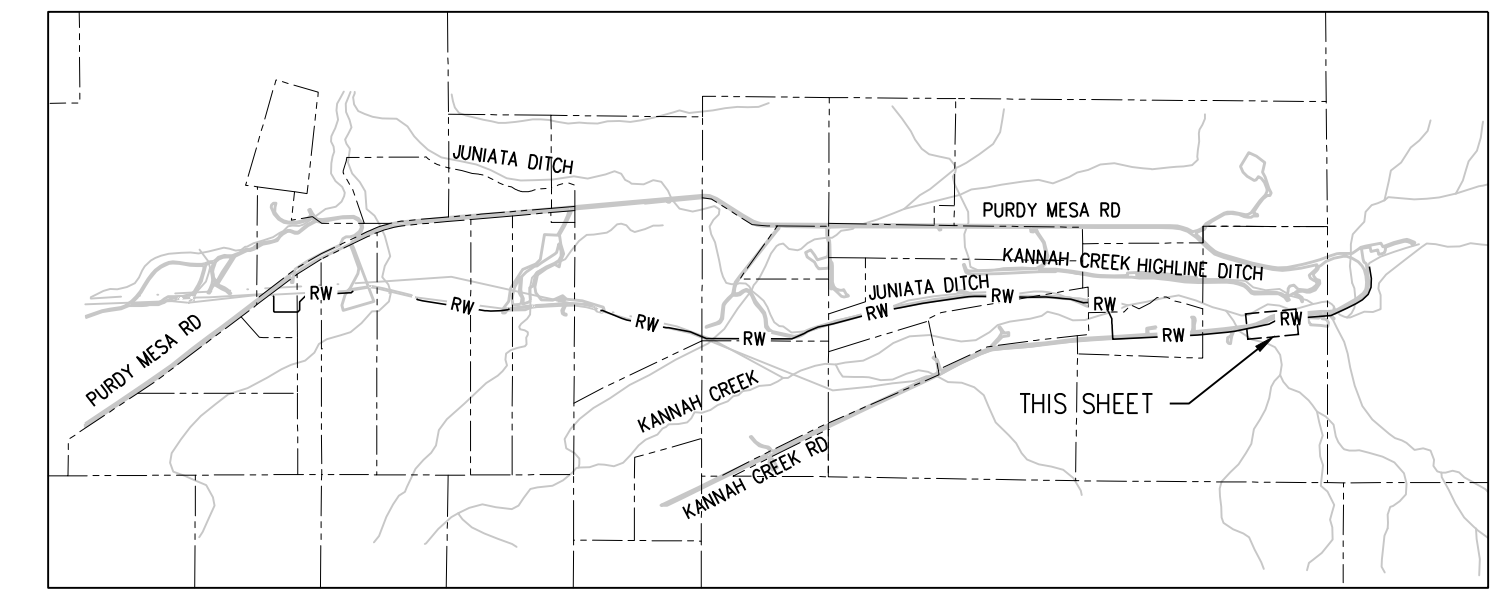
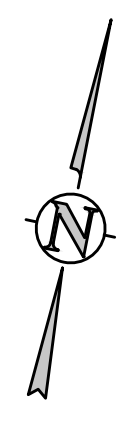
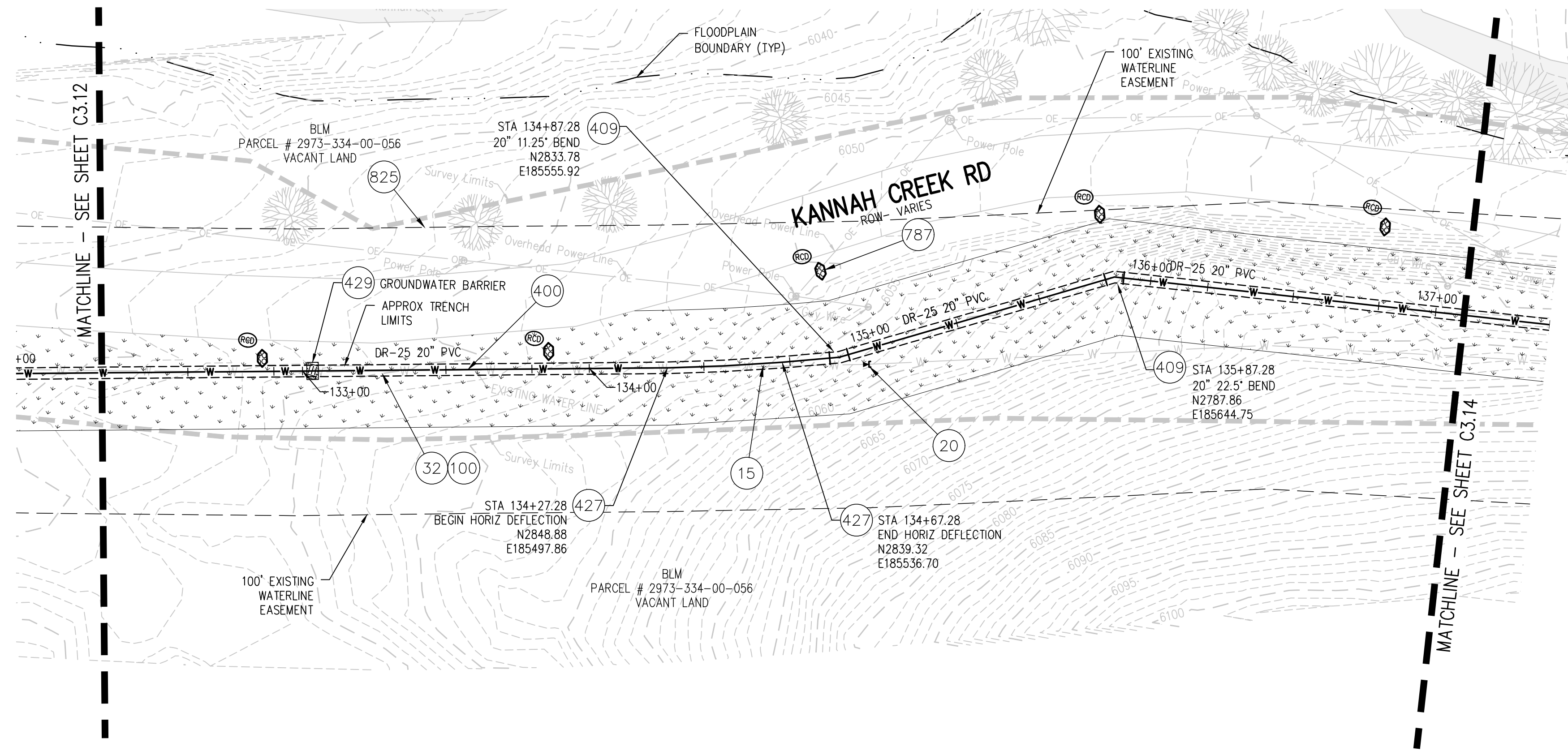
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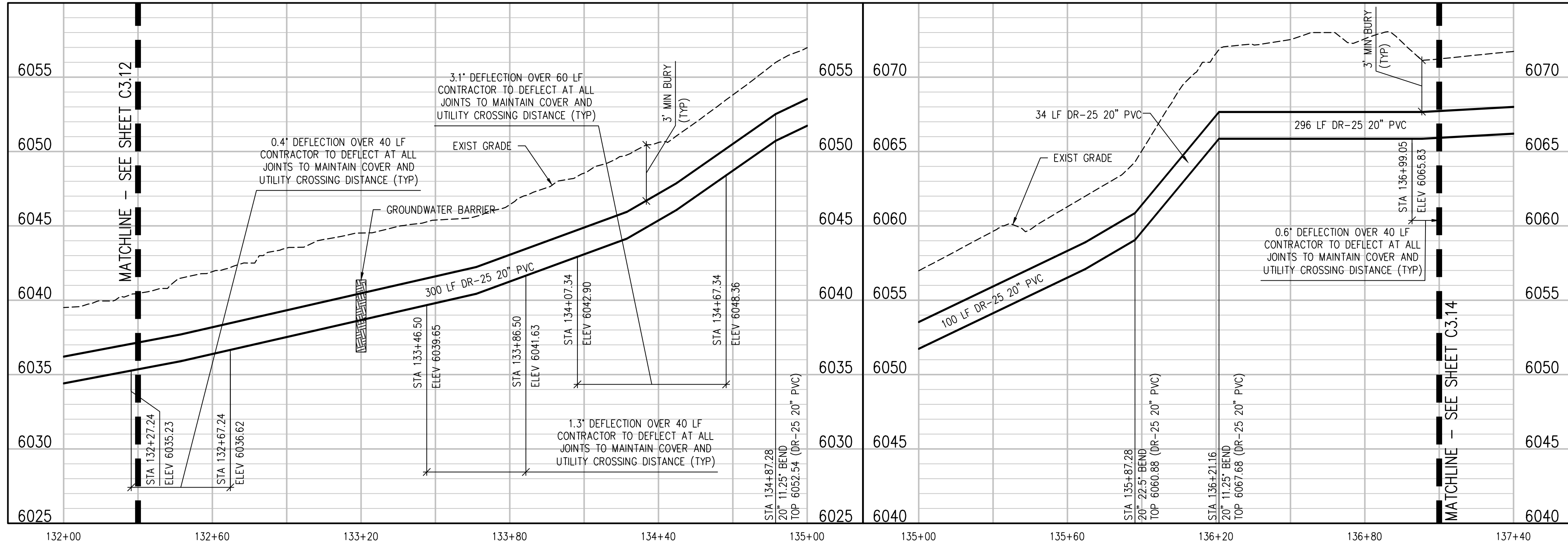
UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE

C3.12



CONSTRUCTION NOTES

- 15 202 - REMOVAL OF PIPE AS SHOWN.
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 32 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES).
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-25 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 427 DEFLECT PIPE AS SHOWN.
- 429 103 - GROUNDWATER BARRIER (INCIDENTAL TO WATER LINE INSTALLATION PAY ITEM)
- 787 208 - ROCK CHECK DAM
- 825 CONTRACTOR IS RESPONSIBLE FOR REPAIR COSTS ASSOCIATED WITH ANY/ALL DAMAGE TO PRIVATE PROPERTY BEHIND ROW LINE OR EASEMENT LIMITS.

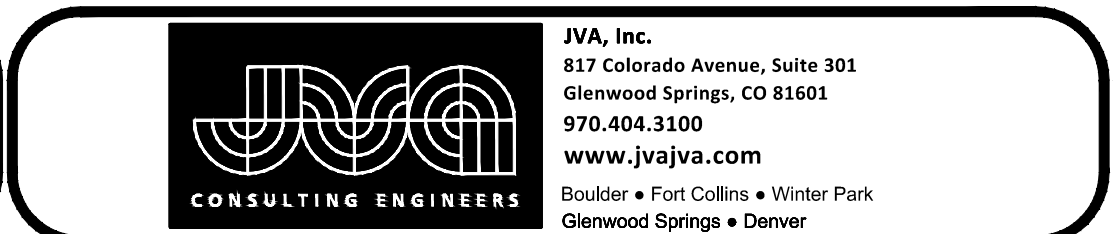
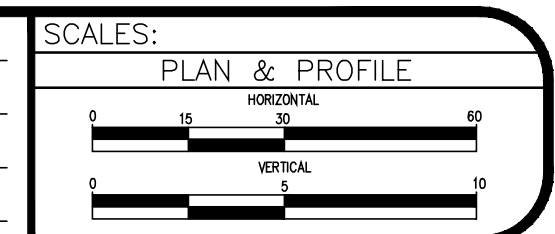


- NOTES:**
- 1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR LOCATION OF ANY EXISTING ABOVE OR BELOW GROUND PRIVATELY OWNED FEATURES WITHIN THE EASEMENT THAT REQUIRES PROTECTION. FEATURES SHALL BE IDENTIFIED IN THE FIELD AND MARKED ON THE PLANS.
 - 2) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR RELOCATION OF EXISTING ABOVE GROUND FEATURES THAT ARE IN CONFLICT WITH THE NEW CONSTRUCTION WITHIN THE EASEMENT AREA.
 - 3) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

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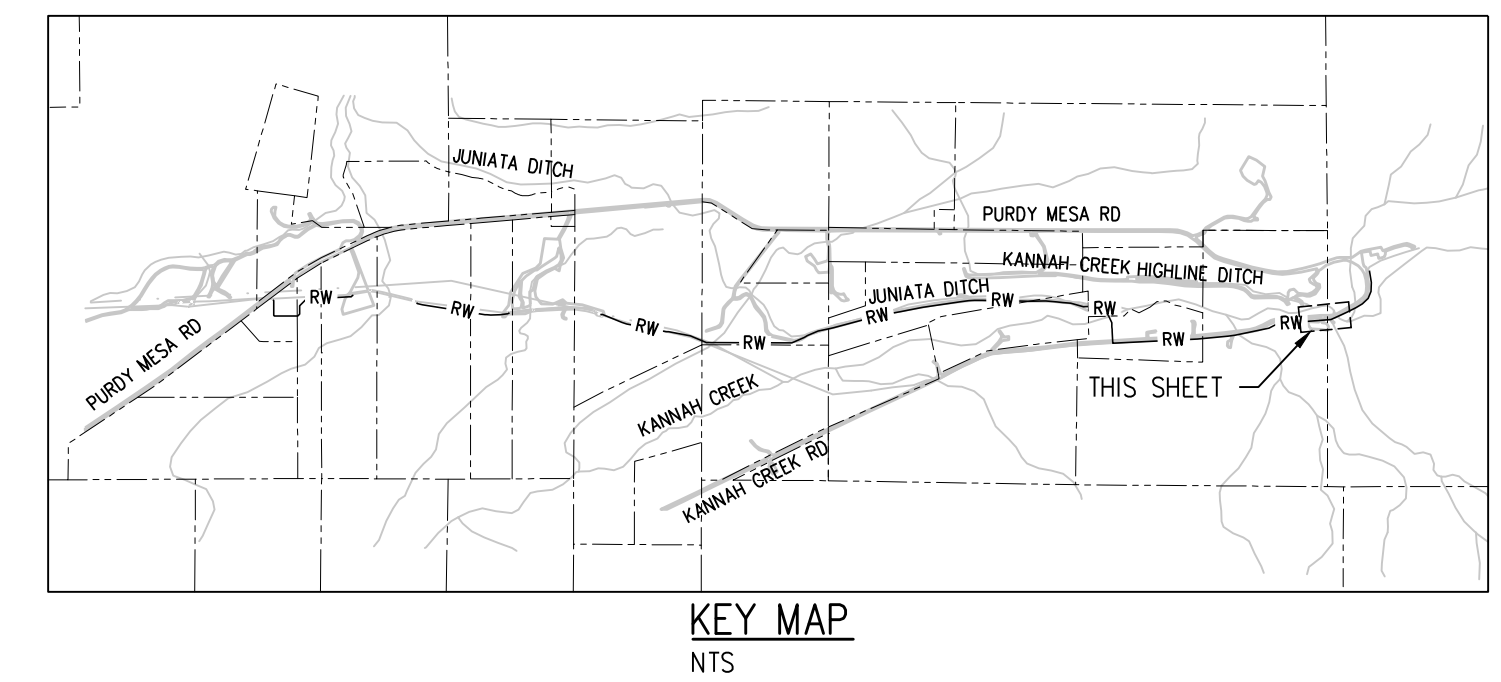
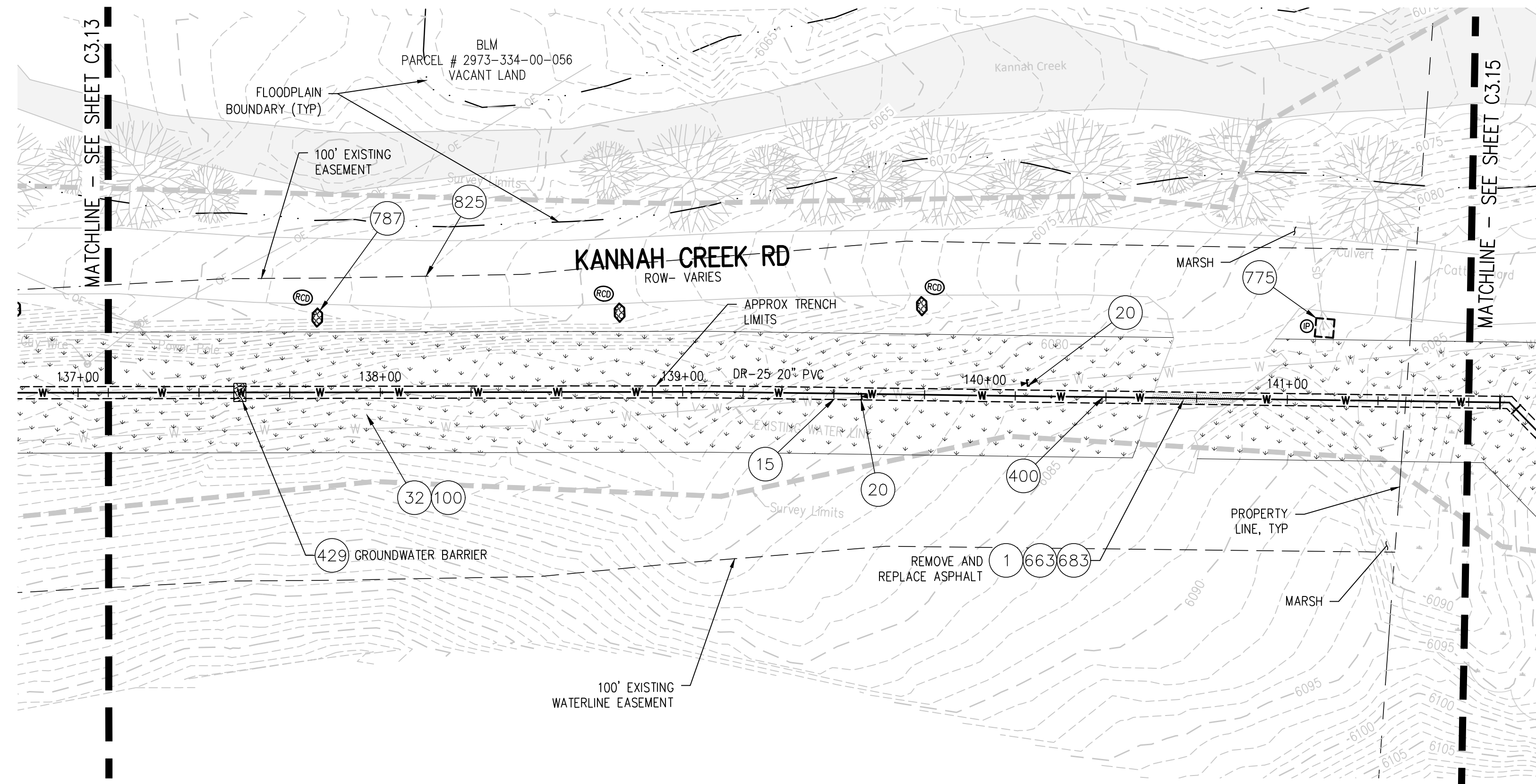
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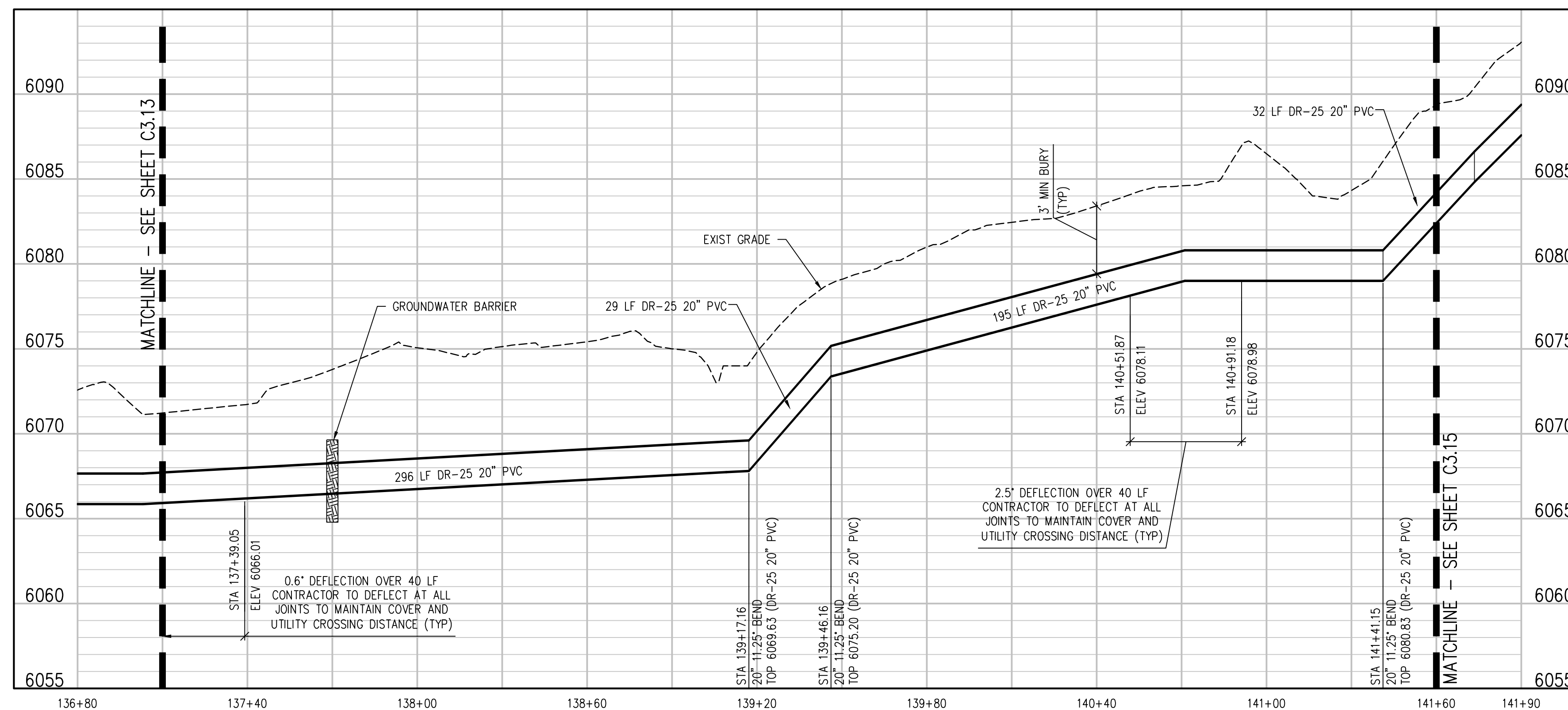
**UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE**

C3.13



CONSTRUCTION NOTES

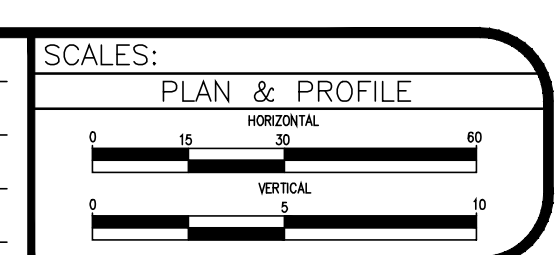
- 1) 202 - REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)
- 15) 202 - REMOVAL OF PIPE AS SHOWN.
- 20) 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 32) 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES).
- 100) 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 400) 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 429) 103 - GROUNDWATER BARRIER (INCIDENTAL TO WATER LINE INSTALLATION PAY ITEM)
- 663) 304 - AGGREGATE BASE COURSE (CLASS 6) (6\"/>



- NOTES:**
- 1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR LOCATION OF ANY EXISTING ABOVE OR BELOW GROUND PRIVATELY OWNED FEATURES WITHIN THE EASEMENT THAT REQUIRES PROTECTION. FEATURES SHALL BE IDENTIFIED IN THE FIELD AND MARKED ON THE PLANS.
 - 2) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR RELOCATION OF EXISTING ABOVE GROUND FEATURES THAT ARE IN CONFLICT WITH THE NEW CONSTRUCTION WITHIN THE EASEMENT AREA.
 - 3) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

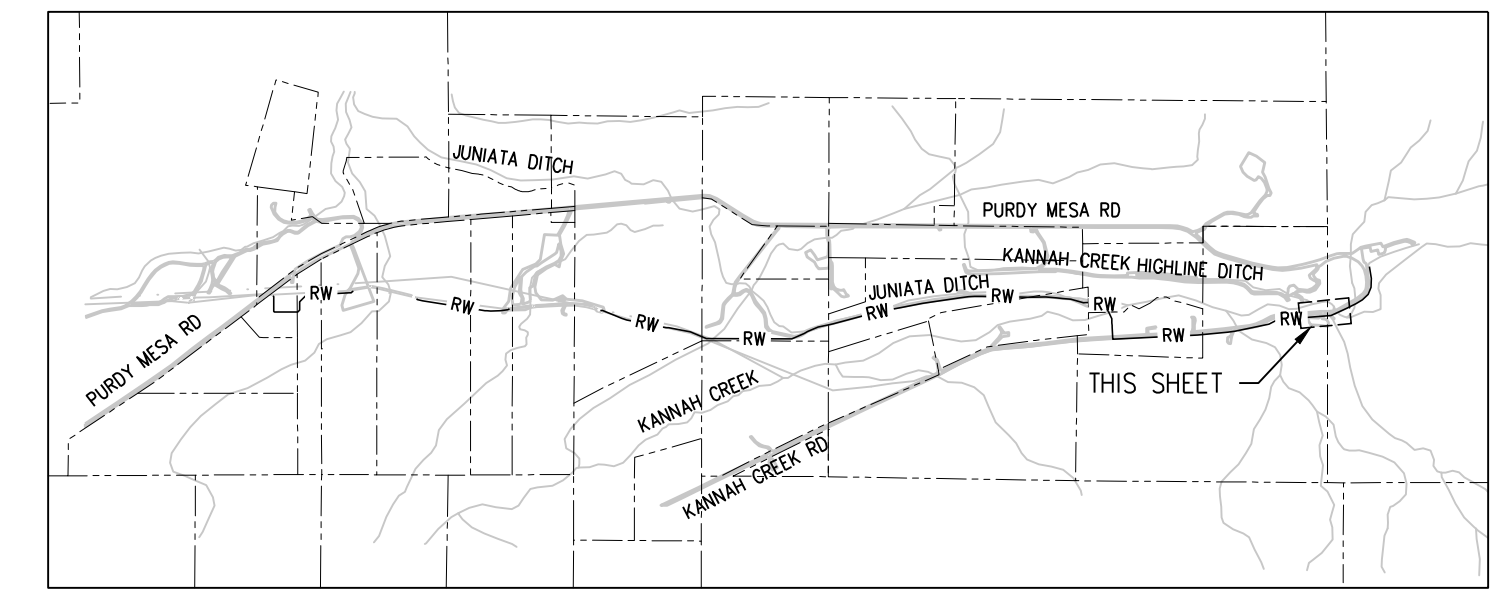
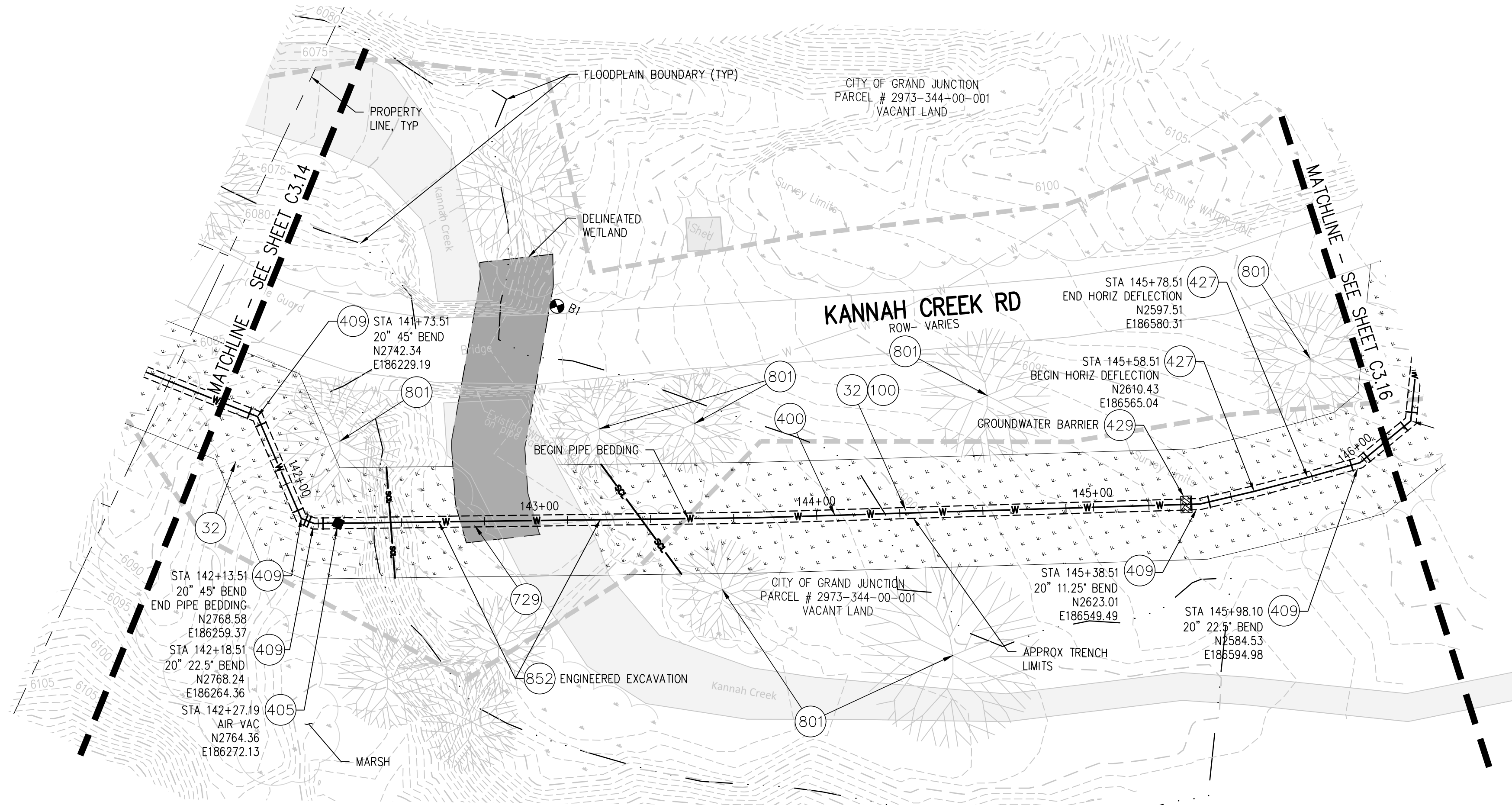
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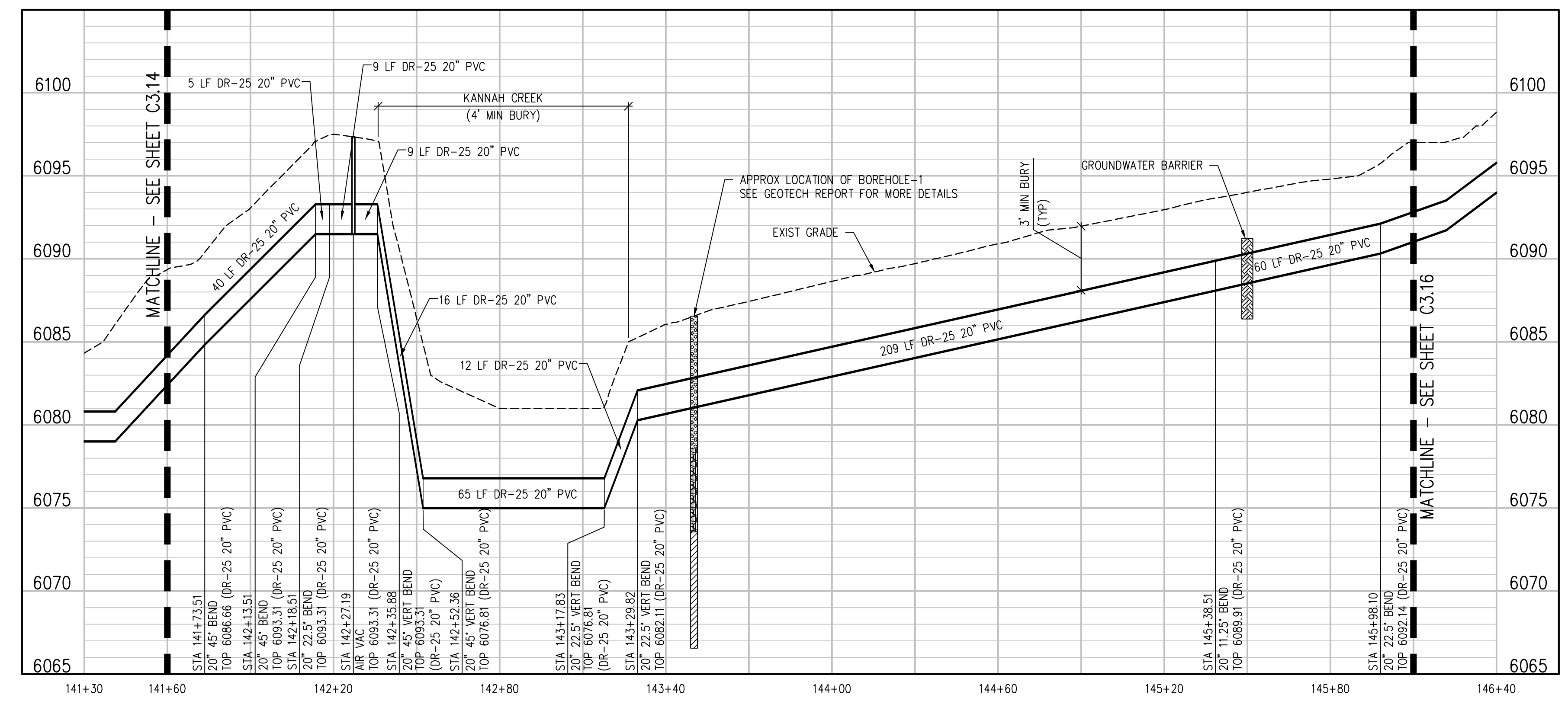
**UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE**

C3.14



CONSTRUCTION NOTES

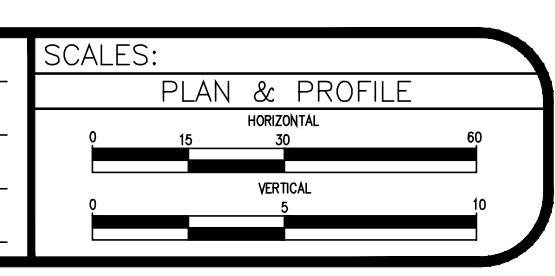
- (32) 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES).
- (100) 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- (400) 102.7/108.2 - WATER MAIN PIPE (C-900 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- (405) 102.8G/102.8H/108.3 - AIR VALVE AND VAULT (SIZE AS SHOWN)
- (409) 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- (427) DEFLECT PIPE AS SHOWN.
- (429) 103 - GROUNDWATER BARRIER (INCIDENTAL TO WATER LINE INSTALLATION PAY ITEM)
- (729) 207 - WETLAND TOPSOIL REMOVAL AND STOCKPILE (CONTRACTOR SHALL SALVAGE WETLAND TOPSOIL FROM LIMITS SHOWN ON THE PLAN AND PLACE IN STOCKPILES OR WINDROWS TO BE REUSED FOR SURFACE RESTORATION)
- (852) CONTRACTOR TO HIRE A GEOTECHNICAL ENGINEER TO DESIGN AND COORDINATE THE EXCAVATION AND RESTORATION OF THE CREEK BED AND BANKS



- NOTES:**
- 1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR LOCATION OF ANY EXISTING ABOVE OR BELOW GROUND PRIVATELY OWNED FEATURES WITHIN THE EASEMENT THAT REQUIRES PROTECTION. FEATURES SHALL BE IDENTIFIED IN THE FIELD AND MARKED ON THE PLANS.
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 - 3) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

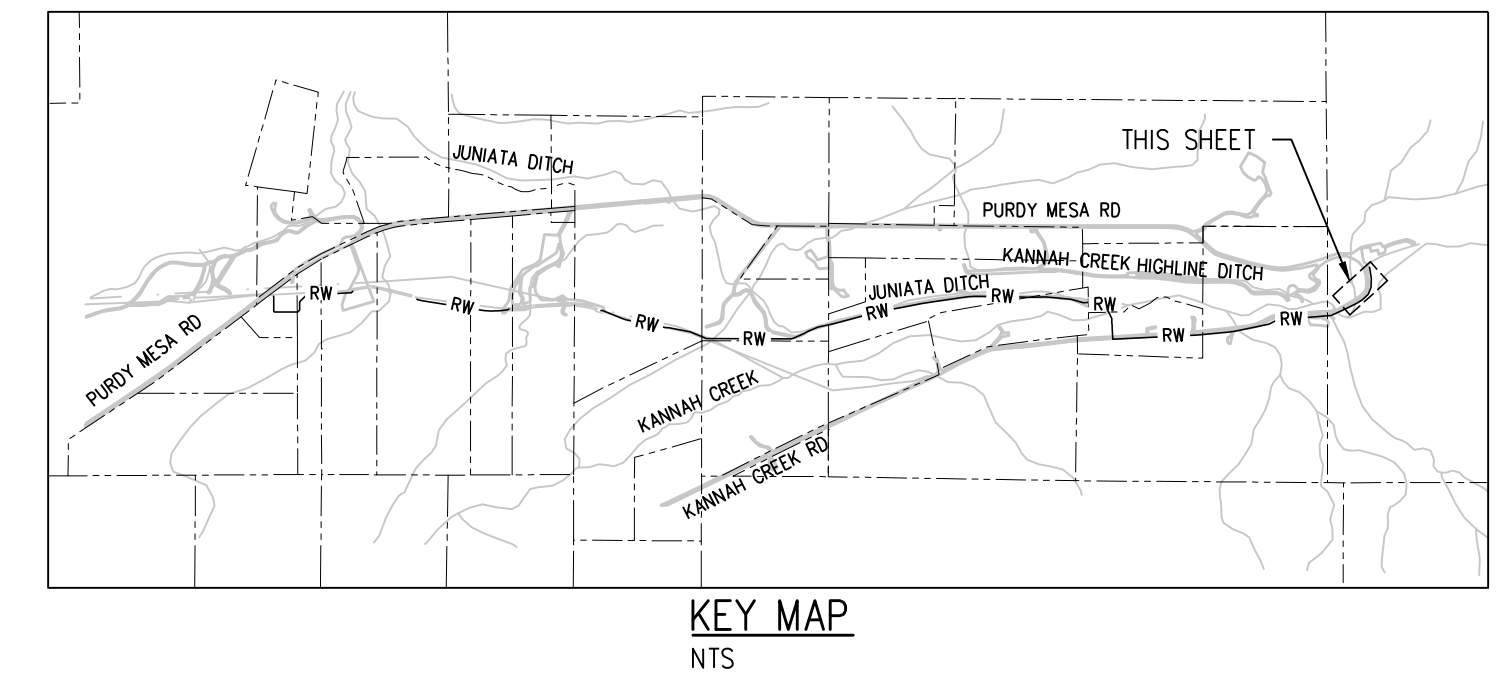
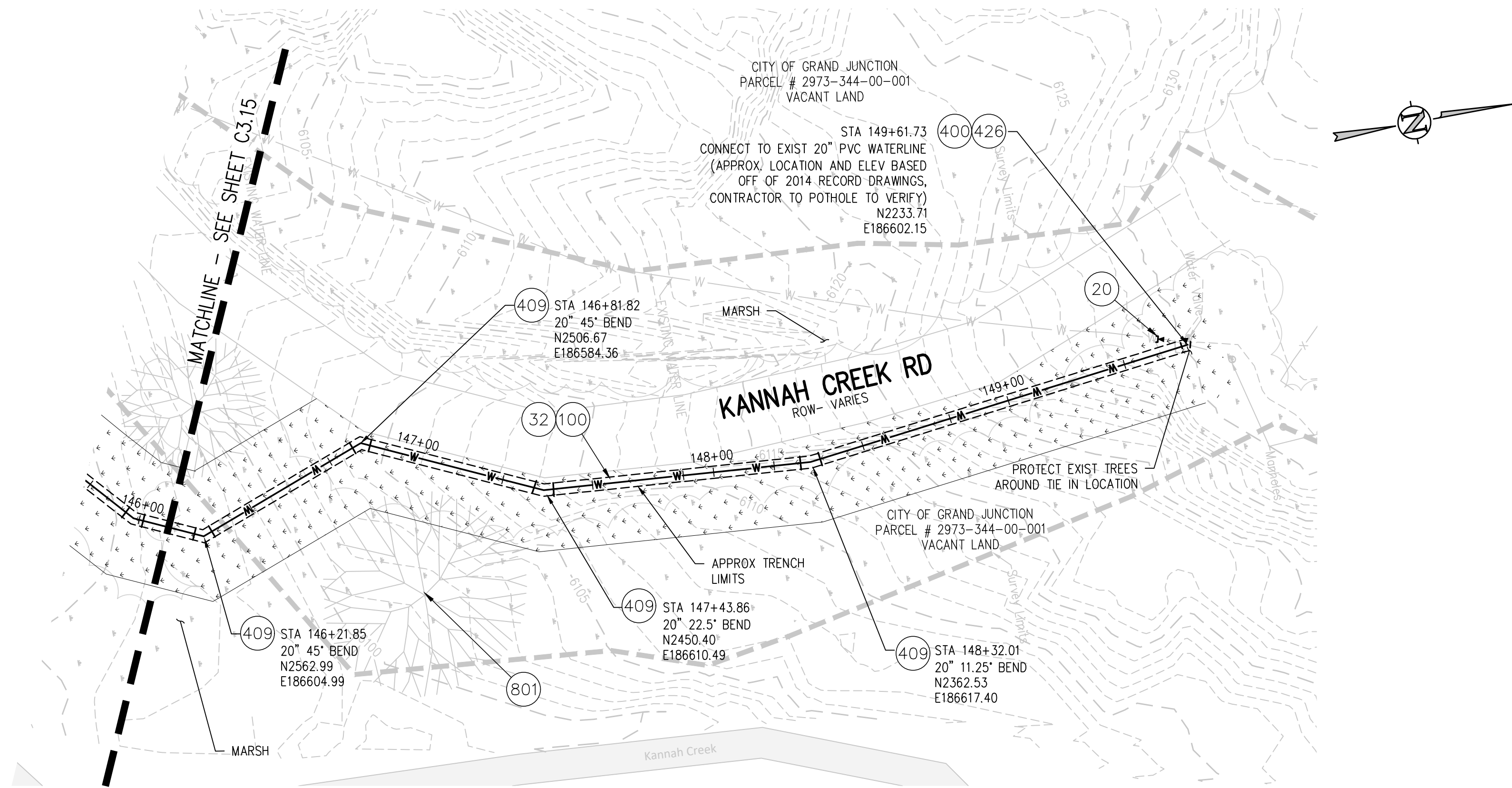
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| REVISION | DESCRIPTION | DATE | DRAWN BY | DATE |
|----------|-------------|------|----------|-------------|
| REVISION | | | ZCF | 03 03, 2023 |
| REVISION | | | LAL/ZCF | 03 03, 2023 |
| REVISION | | | JJM | 01 05, 2023 |
| REVISION | | | | |



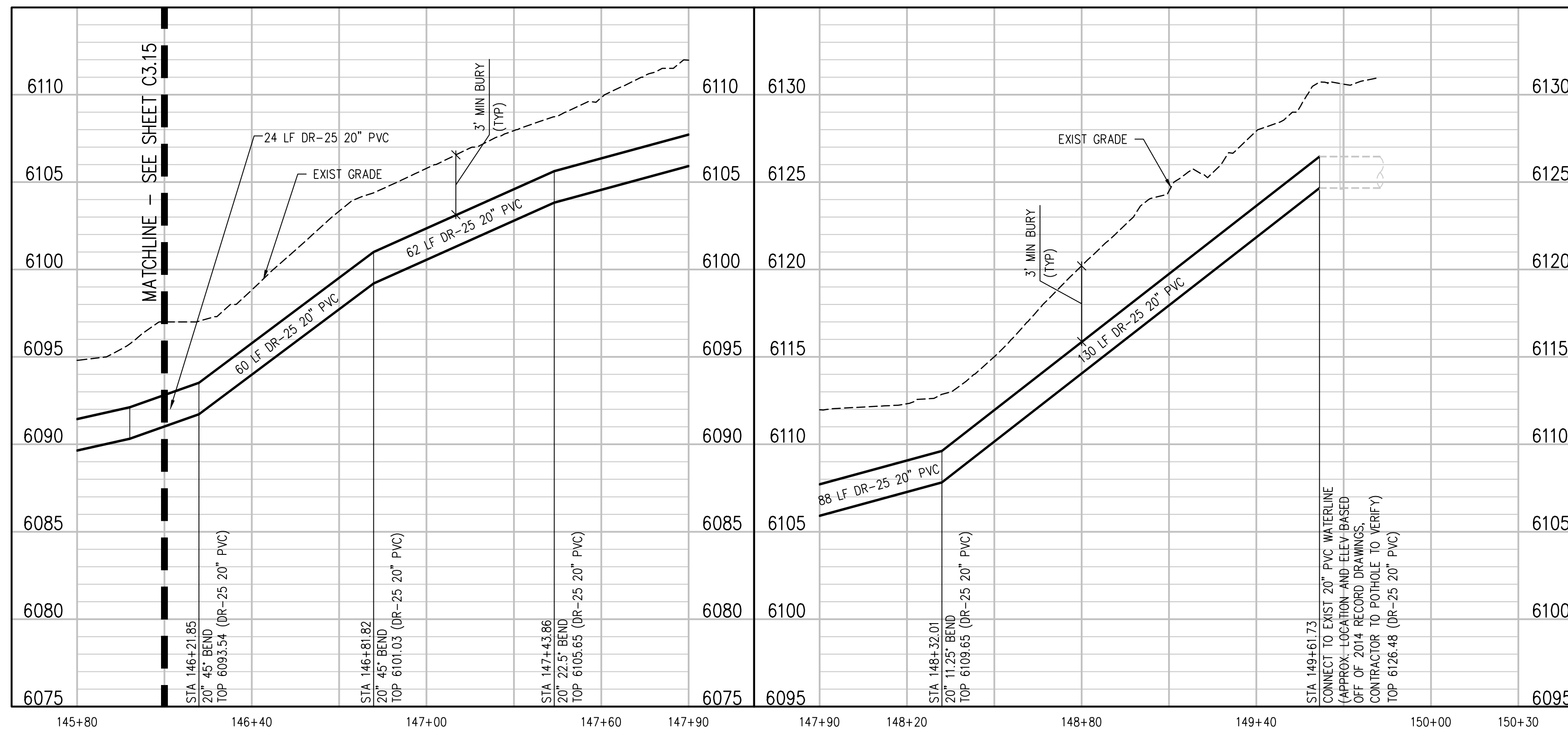
UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE

C3.15



CONSTRUCTION NOTES

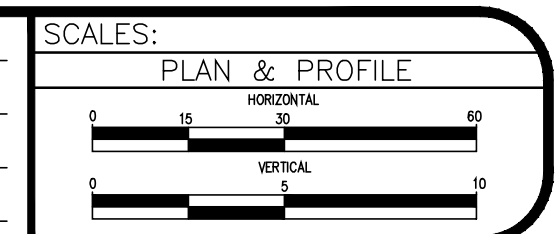
- 4 02 - REMOVAL OF TREE
- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 32 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES).
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 400 102.7/108.2 - WATER MAIN PIPE (C-900 DR-18 PVC) (SIZE AS SHOWN). INCLUDES TYPE A BEDDING AND HAUNCHING MATERIAL AND BACKFILL OF TRENCH WITH NATIVE MATERIALS MEETING 103.16 EARTH BACKFILL MATERIAL.
- 409 102.8/108.3 - ELBOW (SIZE AND ANGLE AS SHOWN)
- 426 CONNECT TO EXISTING WATER PIPE/VALVE/FITTING. THE CONTRACT UNIT PRICE FOR WATER PIPE SHALL INCLUDE THE COST OF CONNECTION TO EXISTING PIPELINE
- 801 PROTECT TREE



- NOTES:**
- 1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR LOCATION OF ANY EXISTING ABOVE OR BELOW GROUND PRIVATELY OWNED FEATURES WITHIN THE EASEMENT THAT REQUIRES PROTECTION. FEATURES SHALL BE IDENTIFIED IN THE FIELD AND MARKED ON THE PLANS.
 - 2) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR RELOCATION OF EXISTING ABOVE GROUND FEATURES THAT ARE IN CONFLICT WITH THE NEW CONSTRUCTION WITHIN THE EASEMENT AREA
 - 3) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

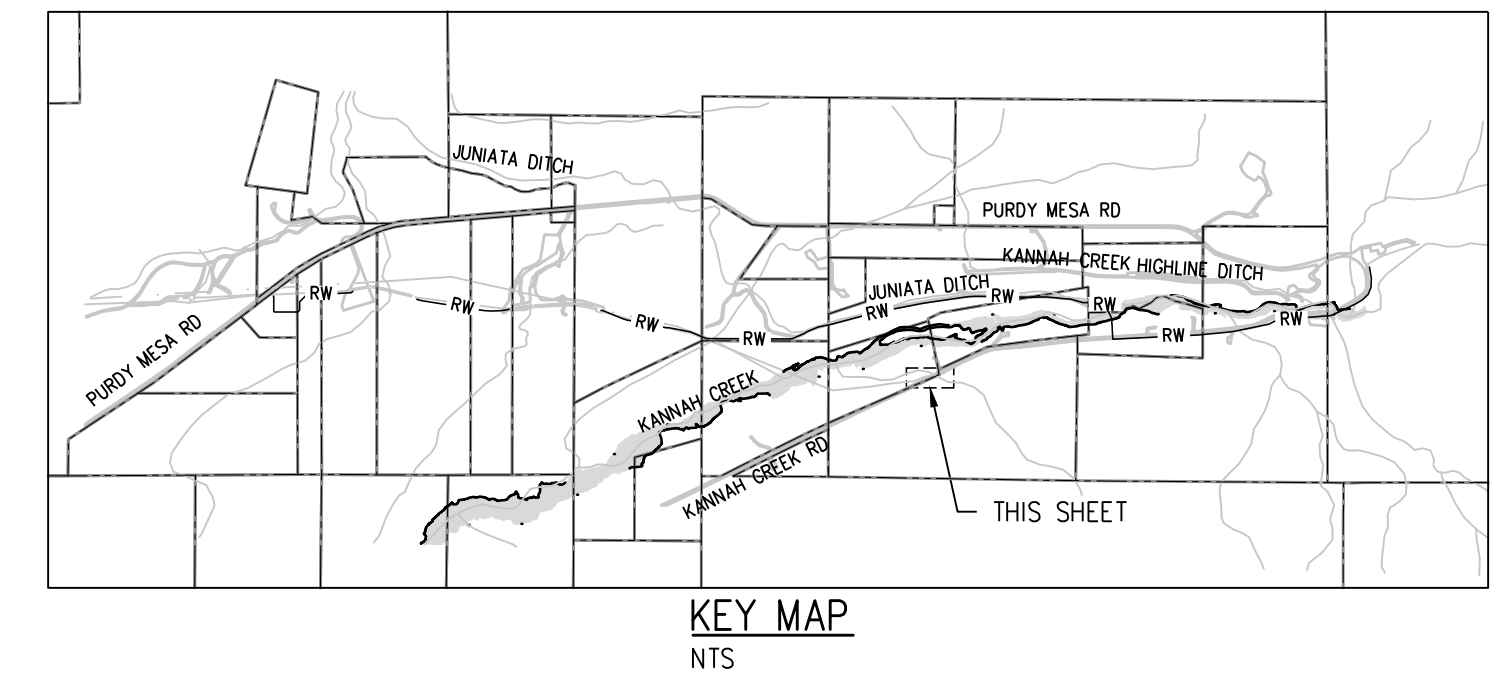
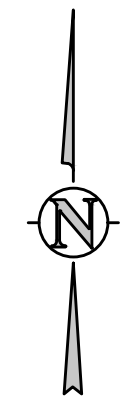
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| REVISION | DESCRIPTION | DATE | DRAWN BY | DATE |
|----------|-------------|------|----------|------------|
| 1 | | | ZCF | 03.03.2023 |
| 2 | | | LAL/ZCF | 03.03.2023 |
| 3 | | | JJM | 01.05.2023 |
| 4 | | | | |



**UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK WATERLINE
PLAN & PROFILE**

C3.16



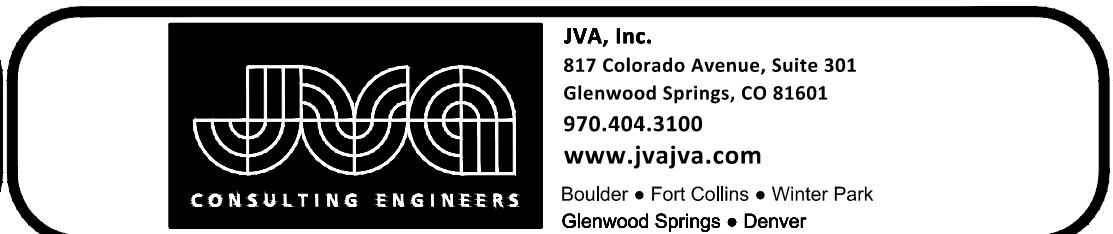
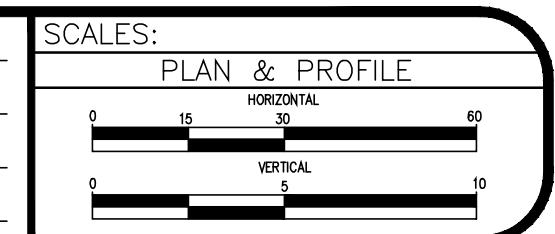
CONSTRUCTION NOTES

- 20 202 - ABANDON PIPE. ABANDON BY PLUGGING REMAINING ENDS WITH CONCRETE.
- 32 201 - CLEARING AND GRUBBING (NATIVE VEGETATION CONSISTS OF SAGEBRUSH, CEDARS, OAK BUSHES, TREES).
- 100 210 - RESET LANDSCAPE GROUND COVER. CONTRACTOR SHALL REMOVE GROUND COVER AND ANY UNDERLYING WEED BARRIER AS NEEDED AND STOCKPILE MATERIALS. CONTRACTOR SHALL RESET THESE MATERIALS AND PROVIDE ADDITIONAL MATERIALS AS NEEDED TO RESTORE LANDSCAPING.
- 410 102.8/108.3 - END CAP / PLUG (SIZE AS SHOWN).

NOTES:
 1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR LOCATION OF ANY EXISTING ABOVE OR BELOW GROUND PRIVATELY OWNED FEATURES WITHIN THE EASEMENT THAT REQUIRES PROTECTION. FEATURES SHALL BE IDENTIFIED IN THE FIELD AND MARKED ON THE DRAWINGS. LINES, WATERLINES, AND WATER METERS WERE ACQUIRED FROM THE CITY OF GRAND JUNCTION. WATER PROTECTION SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION FOR RELATIONSHIP OF EXISTING ABOVE GROUND FEATURES THAT ARE IN CONFLICT WITH THE NEW CONSTRUCTION WITHIN THE EASEMENT AREA.
 2) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%.

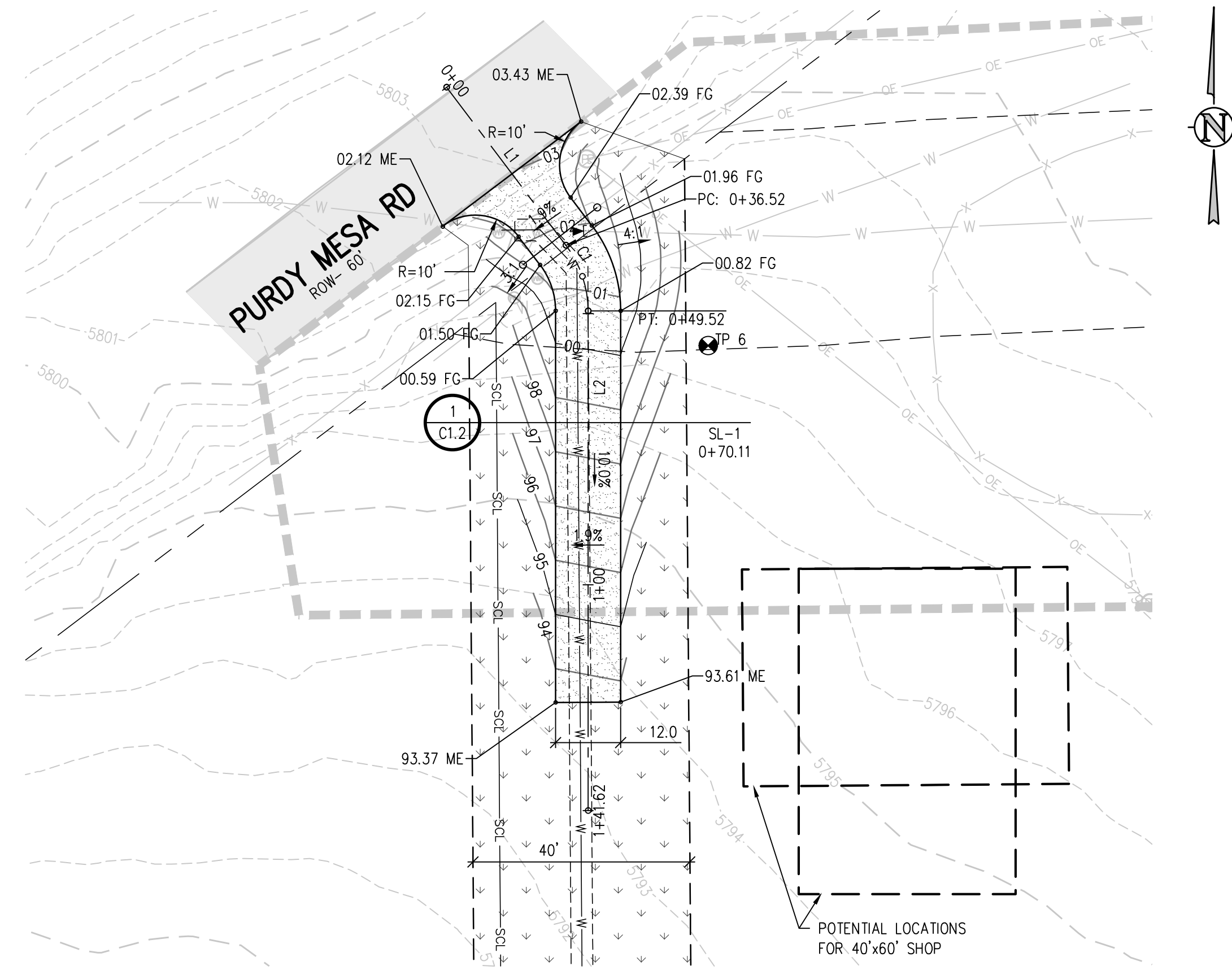
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| REVISION | DESCRIPTION | DATE | DRAWN BY | DATE |
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| 2 | | | LAL/ZCF | 03_03_2023 |
| 3 | | | JJM | 01_05_2023 |
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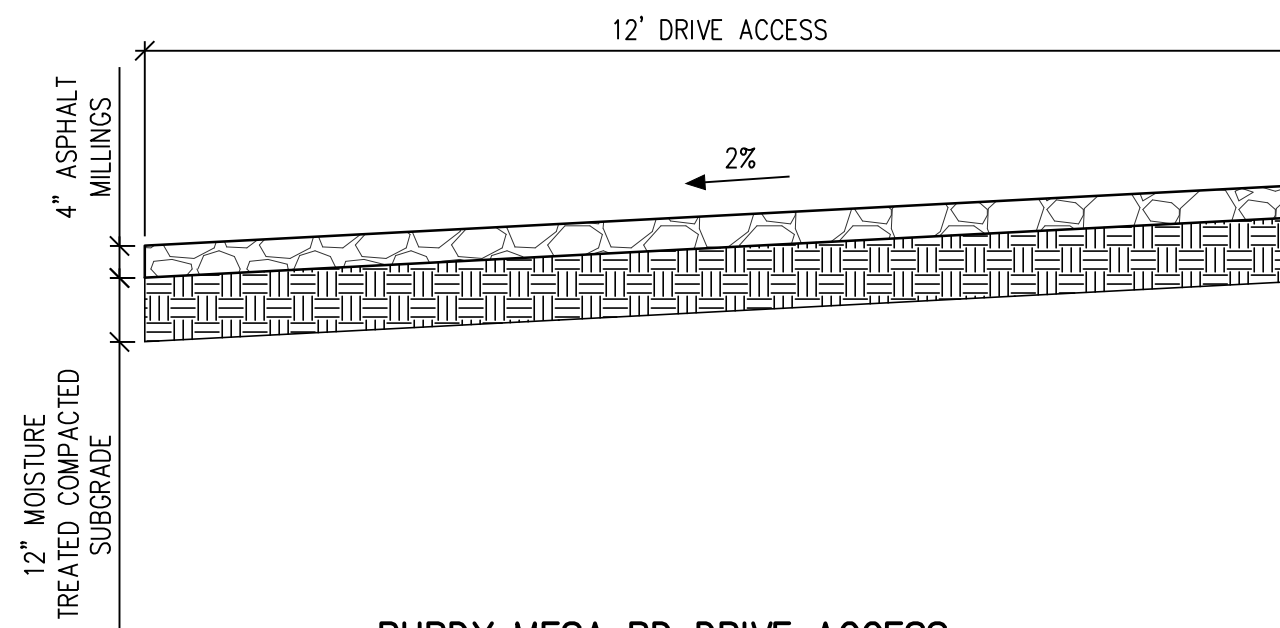


**UPPER KANNAH CREEK WATERLINE
 UPPER KANNAH CREEK EXIST
 18-INCH ABANDONMENT**

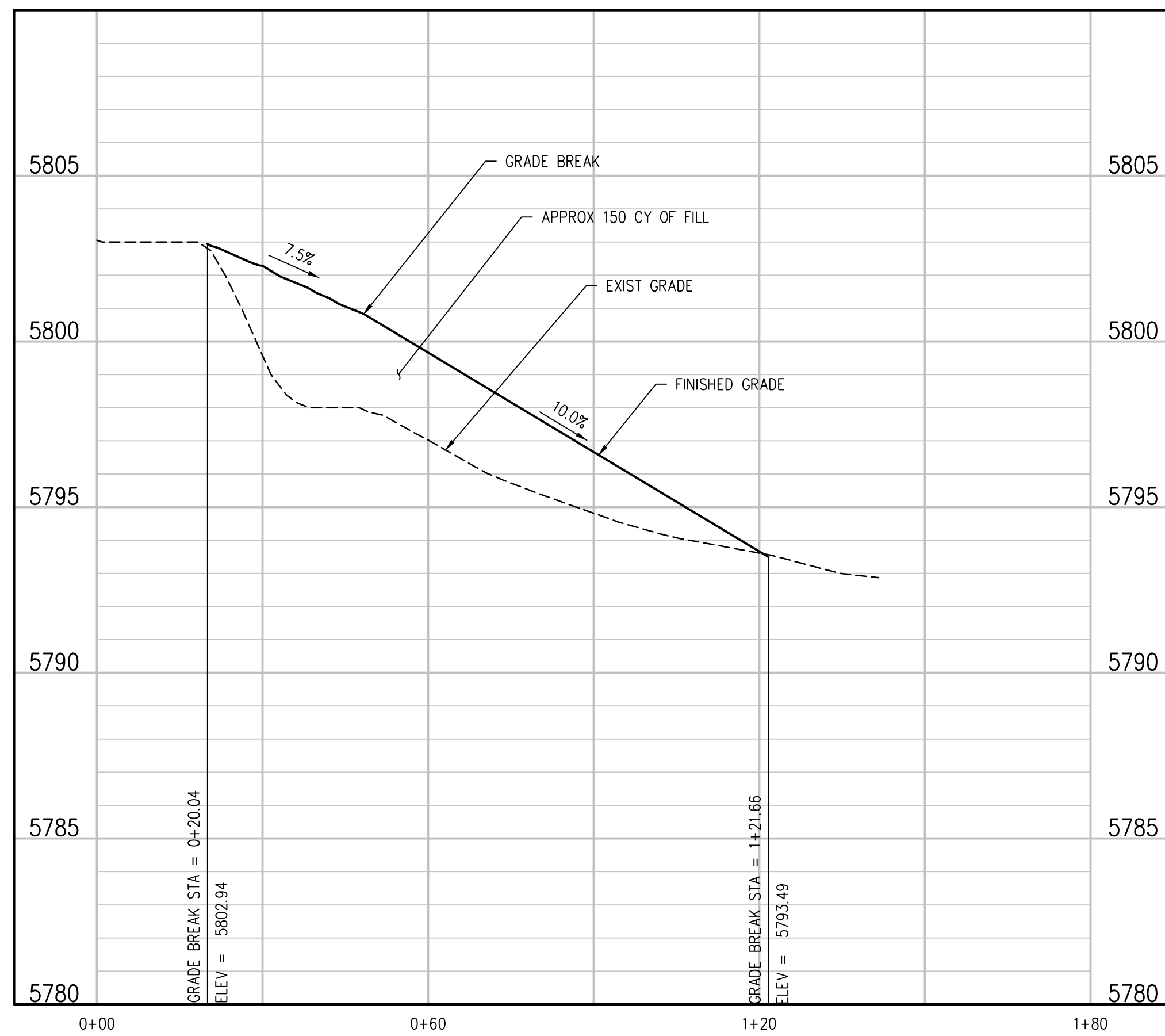
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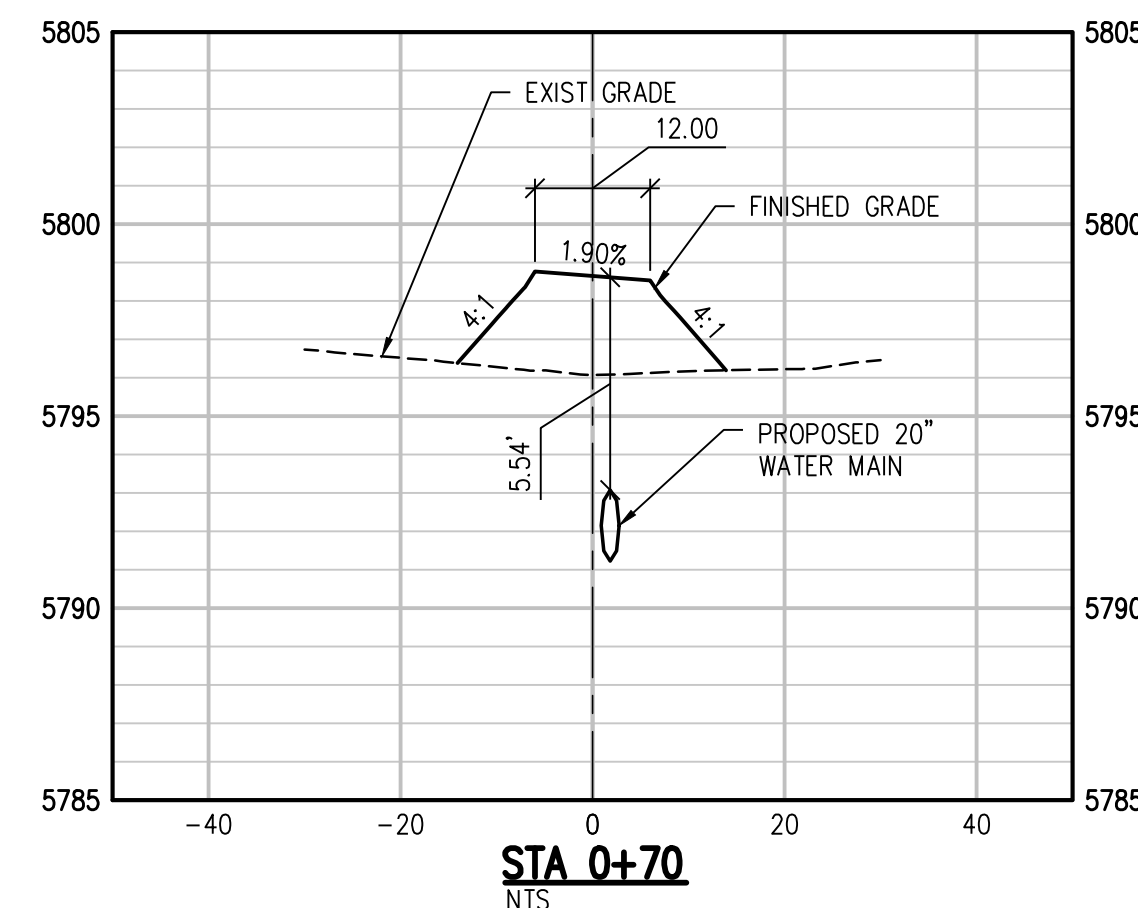
PURDY MESA RD DRIVE ACCESS PLAN
SCALE: 1"=20'



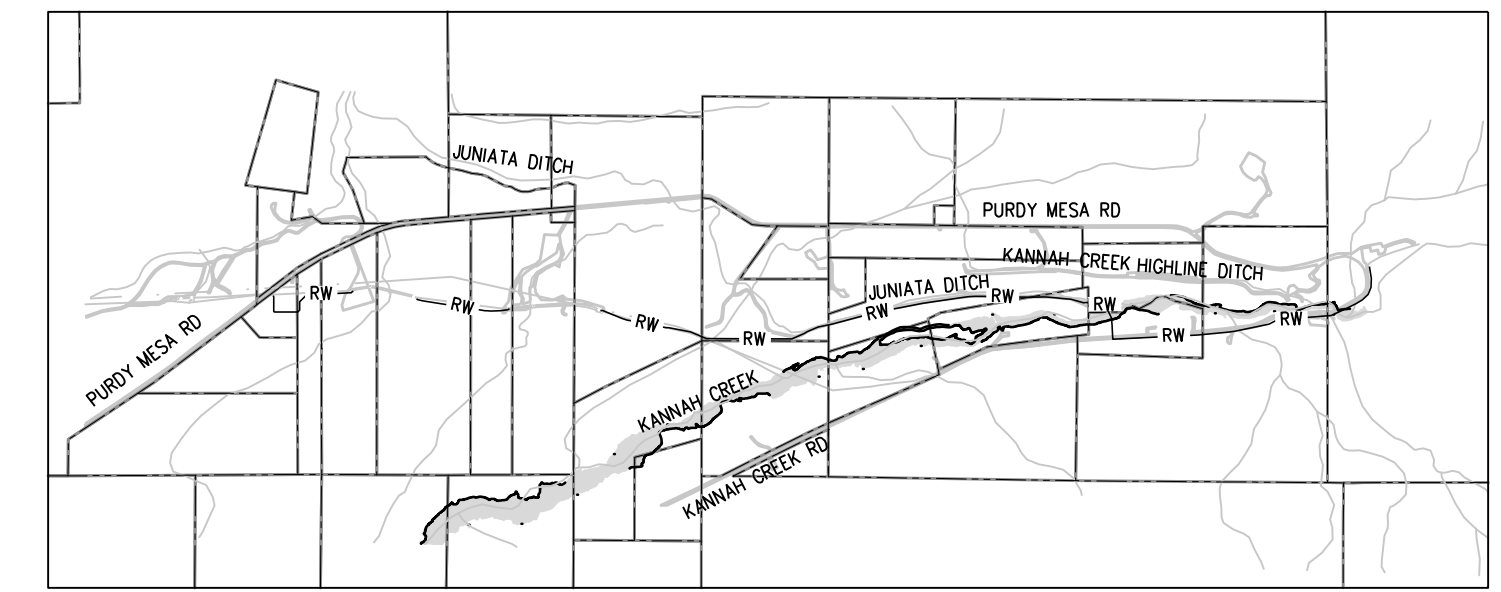
PURDY MESA RD DRIVE ACCESS TYPICAL SECTION
NTS



PURDY MESA RD DRIVE ACCESS PROFILE
SCALE: 1"=20'



PURDY MESA RD DRIVE ACCESS CROSS SECTION
NTS



KEY MAP
NTS

- NOTES:**
- 1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR LOCATION OF ANY EXISTING ABOVE OR BELOW GROUND PRIVATELY OWNED FEATURES WITHIN THE EASEMENT THAT REQUIRES PROTECTION. FEATURES SHALL BE IDENTIFIED IN THE FIELD AND MARKED ON THE PLANS.
 - 2) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND CITY PRIOR TO CONSTRUCTION FOR RELOCATION OF EXISTING ABOVE GROUND FEATURES THAT ARE IN CONFLICT WITH THE NEW CONSTRUCTION WITHIN THE EASEMENT AREA.
 - 3) TURN BELLS TO POINT UPHILL ON SLOPES GREATER THAN 15%

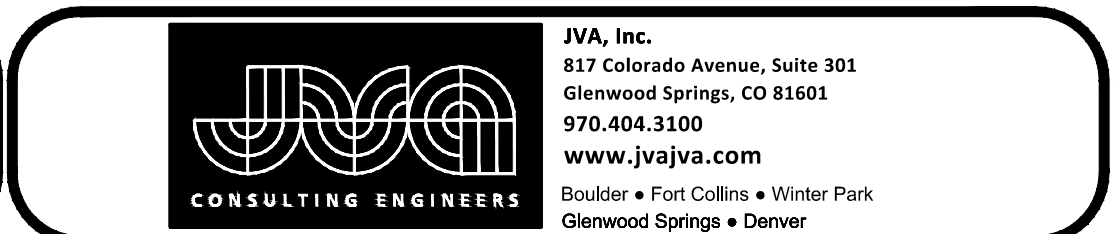
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| REVISION | DESCRIPTION | DATE |
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|-------------|---------|------|-------------|
| DRAWN BY | ZCF | DATE | 03 03, 2023 |
| DESIGNED BY | LAL/ZCF | DATE | 03 03, 2023 |
| CHECKED BY | JJM | DATE | 01 05, 2023 |
| APPROVED BY | | DATE | |

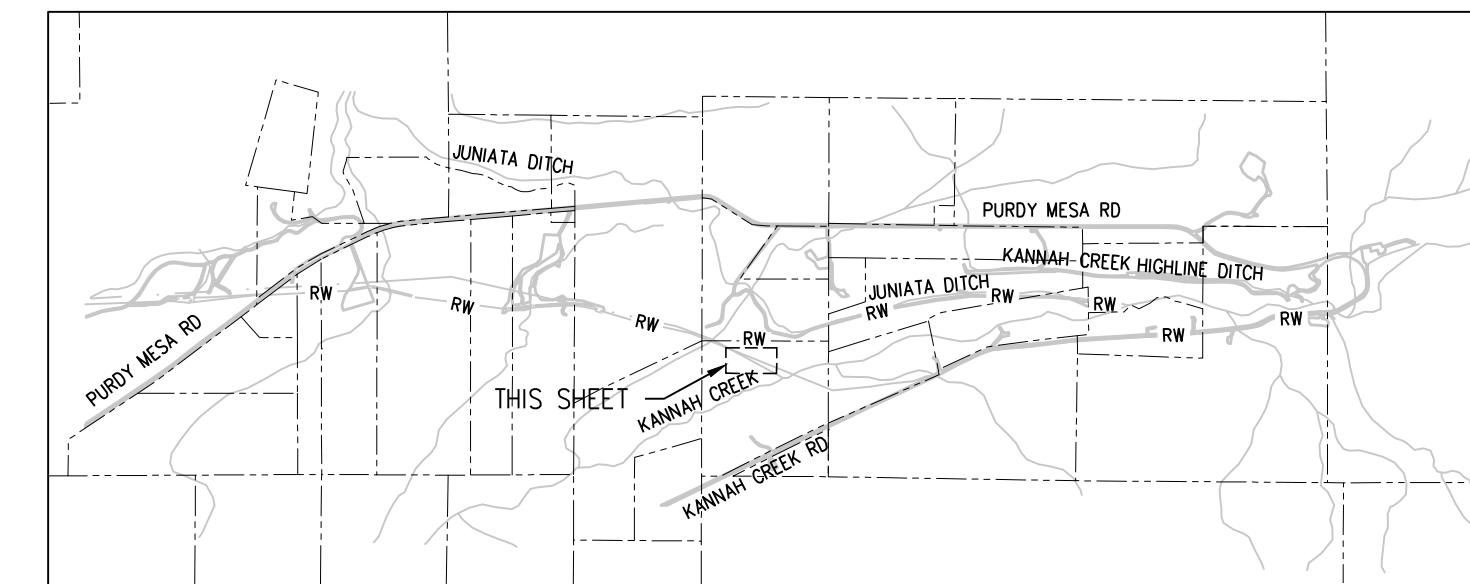
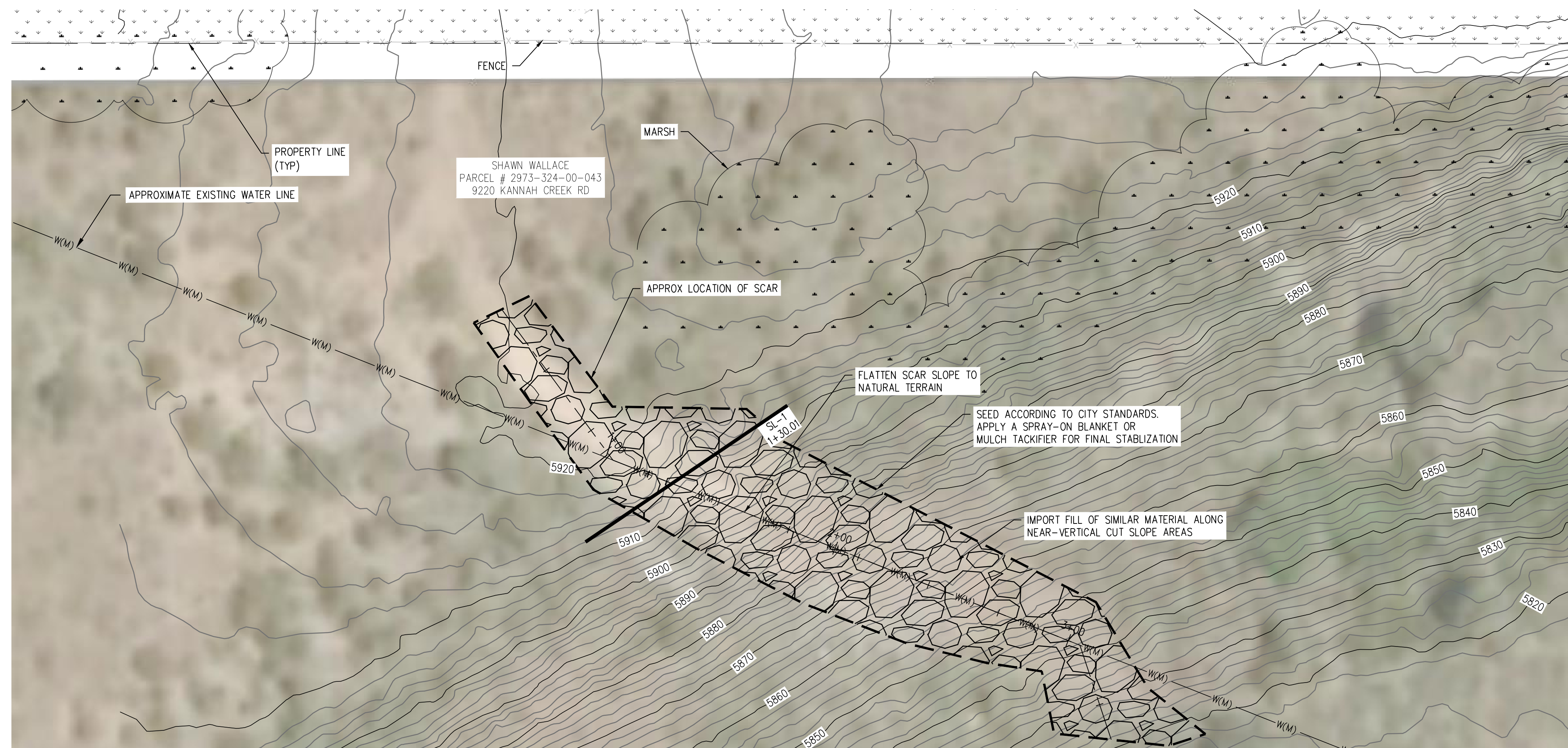
SCALES:

PLAN & PROFILE
 HORIZONTAL: 1"=40'
 VERTICAL: 1"=5'



UPPER KANNAH CREEK WATERLINE
UPPER KANNAH CREEK
HORIZONTAL CONTROL PLAN

C5.0



KEY MAP
NTS

CONSTRUCTION NOTES



LOOKING UPSLOPE THE SCAR AREA IN NW DIRECTION



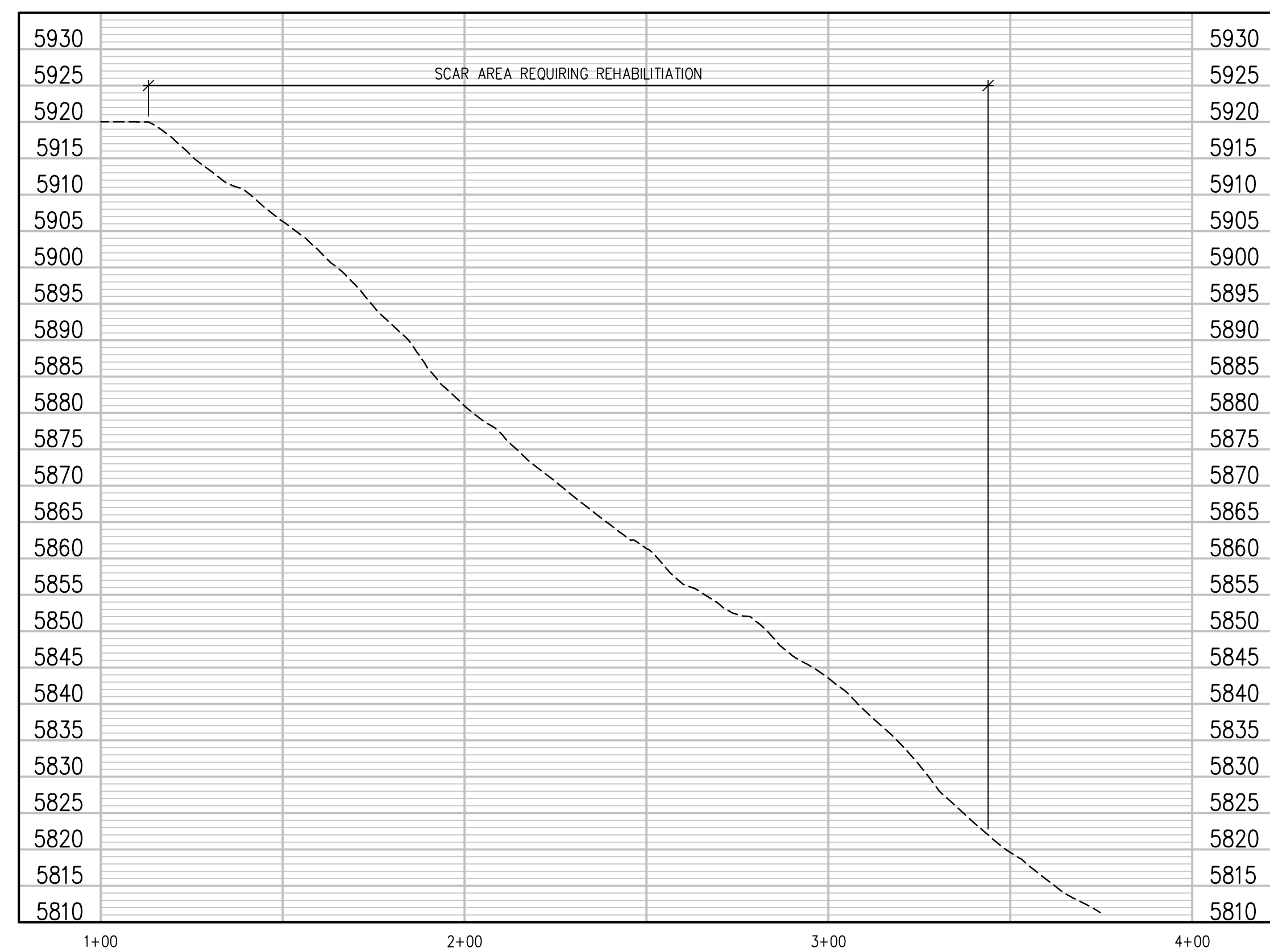
LOOKING DOWNSLOPE THE SCAR AREA IN SE DIRECTION

NOTES:

1. CONTOURS ARE FROM PITKIN COUNTY GIS/MAPPING DEPARTMENT, [HTTPS://WWW.PITKINCOUNTY.COM/876/CONTOURS](https://www.pitkincounty.com/876/CONTOURS). 2016 CONTOUR 2FT. ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE
2. WATERLINE LOCATION WAS TAKEN FROM CITY OF GRAND JUNCTION GIS DATABASE

EROSION AND SEDIMENTATION NOTES:

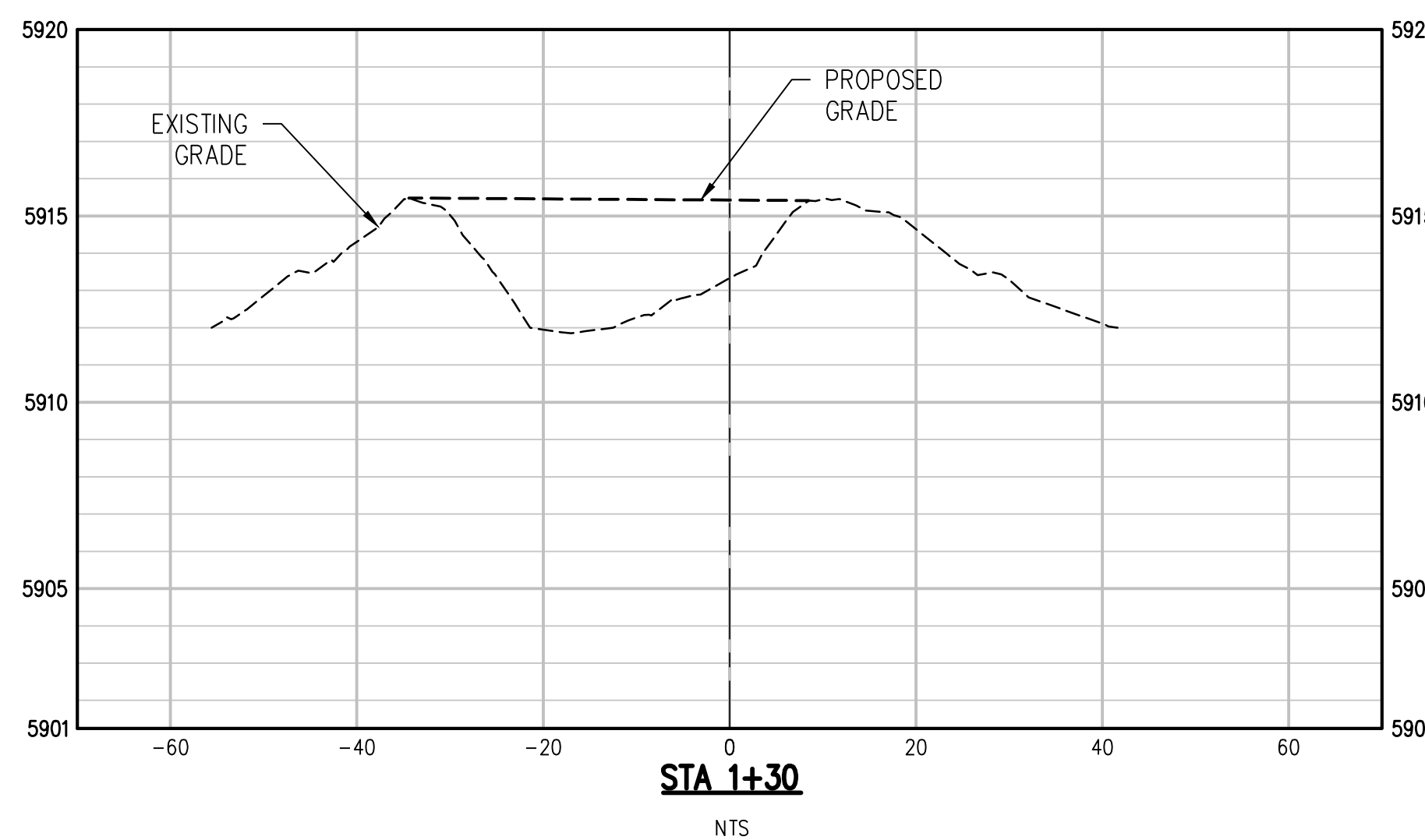
1. CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL CONTROLS DURING INITIAL, INTERIM, AND FINAL CONDITIONS.
2. ALL CONTROLS SHALL BE INSTALLED WITHIN THE PROPERTY LINES UNLESS OTHERWISE SPECIFIED. WHEN CONSTRUCTION ACTIVITIES DISTURB ADJACENT AND/OR RIGHT-OF-WAY PROPERTIES, COORDINATION WITH PROPERTY OWNERS IS REQUIRED PRIOR TO CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL EROSION CONTROL GUIDELINES SUGGESTED IN THE GEOTECHNICAL MEMO BY ROCKSOL DATED 3/16/2021



PROPERTY SCAR PROFILE

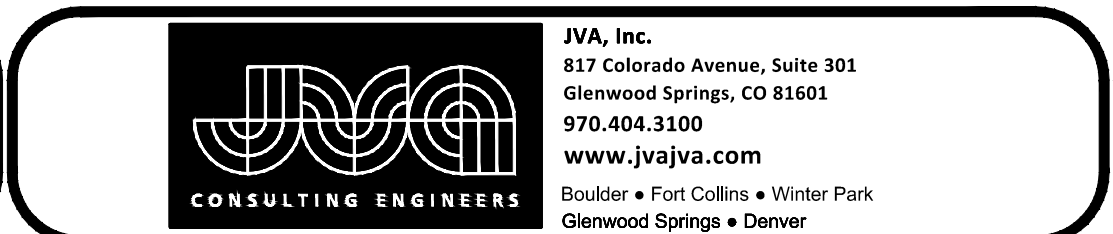
SCALE: 1"=30' HORIZ
1"=15' VERT

PROPERTY SCAR PLAN
SCALE: 1"=30'



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| REVISION | DESCRIPTION | DATE | DRAWN BY | DATE | SCALE: |
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| REVISION | | | ZCF | 03_03_2023 | PLAN & PROFILE |
| REVISION | | | LAL/ZCF | 03_03_2023 | |
| REVISION | | | JJM | 01_05_2023 | |
| REVISION | | | | | |



UPPER KANNAH CREEK WATERLINE SCAR REHABILITATION AND EROSION CONTROL