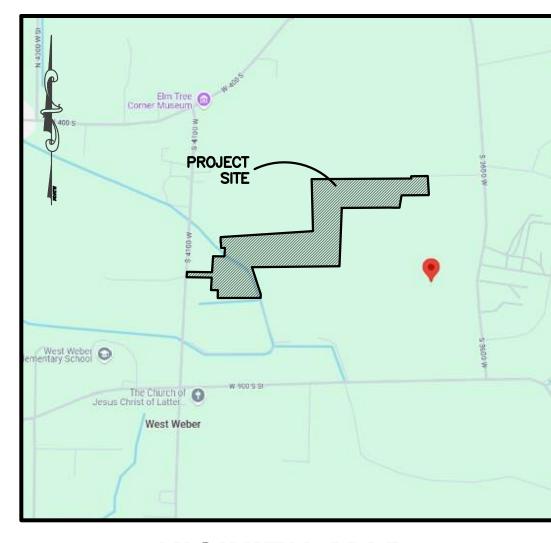
Project Narrative/Notes/Revisions

- 1. 05/06/2025 CK COMPLETED DESIGN FOR CLIENT & CITY REVIEW. 2. 05/23/2025 CK - UPDATED SEWER DESIGN.
- 3. 09/10/2025 CK REVISED PEDESTRIAN CROSSINGS. 4. 10/21/2025 CK - UPDATED PER REVIEW COMMENTS.
- 5. 12/01/2025 CK UPDATED SW & IRRIGATION PER REVIEW COMMENTS.

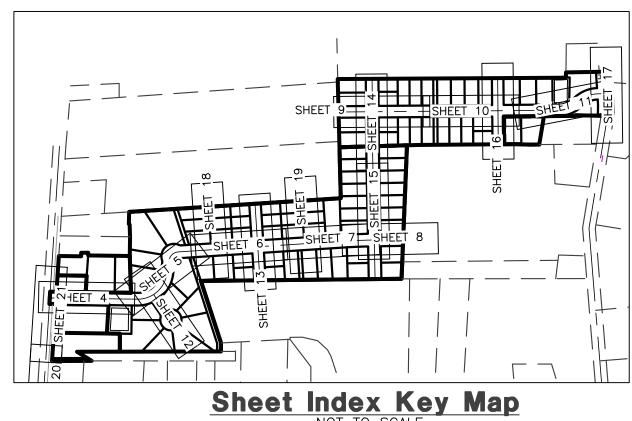
Bitton Estates Subdivision Improvement Plans

WEBER COUNTY, UTAH APRIL 2025

Parcel A 153 152 501 Phase 5



VICINITY MAP



Sheet Index

Sheet 1 - Cover/Index Sheet

Sheet 2 - Notes/Legend/Details

Sheet 3 - Existing Site & Demolition Plan

Sheet 4 - Bitton Lane 0+00.00 - 4+50.00

Sheet 5 - Bitton Lane 4+50.00 - 9+30.00

Sheet 6 - Bitton Lane 9+30.00 - 14+10.00 Sheet 7 - Bitton Lane 14+10.00 - 18+00.00

Sheet 8 - Bitton Lane 18+00.00 - 20+26.00

Sheet 9 - Herrick Lane 0+00.00 - 4+50.00

Sheet 10 - Herrick Lane 4+50.00 - 9+30.00

Sheet 11 - Herrick Lane 9+30.00 - 14+10.00

Sheet 12 - Sarah Circle 0+00.00 - 2+65.00

Sheet 13 - Rebecca Road 0+00.00 - 4+00.00

Sheet 14 - Dee Street 0+00.00 - 4+50.00

Sheet 15 - Dee Street 4+50.00 - 10+50.00

Sheet 16 - Leroy Road 0+00.00 - 3+45.00

Sheet 17 - 3600 West Street 0+00.00 - 5+00.00

Sheet 18 - Private Drive (West) 0+00.00 - 2+50.00

Sheet 19 - Private Drive (East) 0+00.00 - 2+50.00

Sheet 20 - 4100 West Street - -1+00.00 - 5+00.00

Sheet 21 - 4100 West Street - 5+00.00 - 10+25.00

Sheet 22 - Irrigation Profile

Sheet 23 - Grading & Drainage Plan

Sheet 24 - Grading & Drainage Plan (Continued)

Sheet 25 - Utility Plan

Know what's below.

Call before you dig.

Sheet 26 - Utility Plan (Continued)

Sheet 27 - Basin Details

Sheet 28 - Basin Details

Sheet 29 - Street Cross Sections

Sheet 30 - Storm Water Pollution Prevention Plan Exhibit

Sheet 31 - Storm Water Pollution Prevention Plan Details

Sheet 32 - Street Tree Plan

Sheet 33 - Detention Basins Landscape Plan

Engineer's Notice To Contractors:

SHOWN ON THESE PLANS WERE OBTAINED FROM AVAILABLE INFORMATION PROVIDED BY OTHERS. THE LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT CONTACT THE UTILITY COMPANIES AND TAKE DUE PRECAUTIONARY MEASURE TO PROTECT ANY UTILITY LINES SHOWN, AND ANY OTHER LINES OBTAINED BY THE CONTRACTOR'S RESEARCH

San

Bid

Project Info. KENNETH H. HUNTER, P.E Drafter: C. KINGSLEY Begin Date: APRIL 2025 BITTON ESTATES

SUBDIVISION Number: <u>6298–39</u>

33 Total Sheets

PH:(801) 621-3100 PH:(801) 621-3100 \PH: (801) 804-6413 THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF REEVE & ASSOCIATES, INC., 5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405, AND SHALL NOT BE PHOTOCOPIED, RE-DRAWN, OR USED ON ANY PROJECT OTHER THAN THE PROJECT SPECIFICALLY DESIGNED FOR, WITHOUT THEIR CONSENT.

Surveyor:

Reeve & Associates, Inc.

5160 South 1500 West

Riverdale, Utah, 84405

Jason Felt

Scale: 1" = 150'

Geotechnical Report:

Dated: January 16, 2025

Christensen Geotechnical

8143 South 2475 East

South Weber, Utah

Project Contact:

Reeve & Associates, Inc.

5160 South 1500 West

Riverdale, Utah, 84405

Jeremy Draper

General Notes:

- 1. ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: GOVERNING UTILITY MUNICIPALITY, GOVERNING CITY OR COUNTY (IF UN-INCORPORATED), INDIVIDUAL PRODUCT MANUFACTURERS, AMERICAN PUBLIC WORKS ASSOCIATION (APWA), AND THE DESIGN ENGINEER. THE ORDER LISTED ABOVE IS ARRANGED BY SENIORITY. IF A CONSTRUCTION PRACTICE IS NOT SPECIFIED BY ANY OF THE LISTED SOURCES, CONTRACTOR MUST CONTACT DESIGN ENGINEER FOR DIRECTION.
- 2. CONTRACTOR TO STRICTLY FOLLOW GEOTECHNICAL RECOMMENDATIONS FOR THIS PROJECT. ALL GRADING INCLUDING BUT NOT LIMITED TO CUT, FILL, COMPACTION, ASPHALT SECTION, SUBBASE, TRENCH EXCAVATION/BACKFILL, SITE GRUBBING, RETAINING WALLS AND FOOTINGS MUST BE COORDINATED DIRECTLY WITH THE PROJECT GEOTECHNICAL ENGINEER.
- TRAFFIC CONTROL, STRIPING & SIGNAGE TO CONFORM TO CURRENT GOVERNING AGENCIES TRANSPORTATION ENGINEER'S MANUAL AND
- MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
- CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO
- A CLEAN, SMOOTH EDGE. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST RECENT, ADOPTED EDITION OF ADA ACCESSIBILITY GUIDELINES.
- 8. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED THOROUGHLY REVIEWED PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- 9. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
- 10. ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE APPROPRIATE CITY, COUNTY OR STATE AGENCY CONTROLLING THE ROAD, INCLUDING OBTAINING REQUIRED INSPECTIONS.
- 11. ALL DIMENSIONS, GRADES & UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR
- 12. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP ANY QUESTIONS BEFOREHAND. 13. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH BY THE GEOTECHNICAL ENGINEER.
- 14. CATCH SLOPES SHALL BE GRADED AS SPECIFIED ON GRADING PLANS. 15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLAGGING, CAUTION SIGNS, LIGHTS, BARRICADES, FLAGMEN, AND ALL OTHER DEVICES
- NECESSARY FOR PUBLIC SAFETY. 16. CONTRACTOR SHALL, AT THE TIME OF BIDDING AND THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT BID AND TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PLANS AND SPECIFICATIONS.
- 17. CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO BIDDING TO SATISFY HIMSELF BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS HE MAY PREFER OF THE LOCATIONS OF THE PROPOSED WORK AND OF THE ACTUAL CONDITIONS OF AND AT THE SITE OF WORK. IF, DURING THE COURSE OF HIS EXAMINATION, A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO HIM TO BE IN CONFLICT WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, HE SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING HIS BID. SUBMISSION OF A BID BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGMENT THAT, IF AWARDED THE CONTRACT, HE HAS RELIED AND IS RELYING ON HIS OWN EXAMINATION OF (1) THE SITE OF THE WORK, (2) ACCESS TO THE SITE, AND (3) ALL OTHER DATA AND MATTERS REQUISITE TO THE FULFILLMENT OF THE WORK AND ON HIS OWN KNOWLEDGE OF EXISTING FACILITIES ON AND IN THE VICINITY OF THE SITE OF THE WORK TO BE CONSTRUCTED UNDER THIS CONTRACT. THE INFORMATION PROVIDED BY THE ENGINEER IS NOT INTENDED TO BE A SUBSTITUTE FOR, OR A SUPPLEMENT TO, THE INDEPENDENT VERIFICATION BY THE CONTRACTOR TO THE EXTENT SUCH INDEPENDENT INVESTIGATION OF SITE CONDITIONS IS DEEMED NECESSARY OR DESIRABLE BY THE CONTRACTOR. CONTRACTOR SHALL ACKNOWLEDGE THAT HE HAS NOT RELIED SOLELY UPON OWNER-OR ENGINEER-FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND SUBMITTING HIS BID.
- 18. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR
- THE CONTRACTOR'S USE DURING CONSTRUCTION. 19. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER,
- ENGINEER, AND/OR GOVERNING AGENCIES. 20. CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, CONTROL POINTS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE
- 21. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- 22. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS. ALL TESTING AND INSPECTION SHALL BE PAID FOR BY THE OWNER; ALL RE-TESTING AND/OR RE-INSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.
- 23. IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND/OR REPLACEMENT. THERE WILL BE NO EXTRA COST DUE TO THE CONTRACTOR FOR REPLACING OR REPAIRING EXISTING IMPROVEMENTS.
- 24. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS. SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER. THE ENGINEER. AND THE RESPECTIVE REGULATORY AGENCY.
- 25. CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL STRUCTURES AND OTHER FACILITIES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS. ACCOMMODATIONS. AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
- 26. WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS TOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE HIGHES
- QUALITY ARE TO BE USED. 27. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PROJECT PLANS AND SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING UPON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR. PRICES PROVIDED WITHIN THE CONTRACT DOCUMENTS SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THE TRUE INTENT AND PURPOSE OF THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS IN THE NATURE, EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE ARE CERTAIN PECULIAR AND INHERENT CONDITIONS EXISTENT IN THE CONSTRUCTION OF THE PARTICULAR FACILITIES WHICH MAY CREATE, DURING THE CONSTRUCTION PROGRAM, UNUSUAL OR UNSAFE CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.
- 28. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRIPING AND/OR PAVEMENT MARKINGS NECESSARY TO TIE EXISTING
- STRIPING INTO FUTURE STRIPING. METHOD OF REMOVAL SHALL BE BY GRINDING OR SANDBLASTING. 29. CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 4 FEET OR MORE. FOR EXCAVATIONS 4 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL
- COMPLY WITH LOCAL, STATE AND NATIONAL SAFETY CODES, ORDINANCES. OR REQUIREMENTS FOR EXCAVATION AND TRENCHES. 30. ALL EXISTING GATES AND FENCES TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. PROTECT ALL GATES AND FENCES FROM DAMAGE.

Utility Notes:

- 1. CONTRACTOR SHALL COORDINATE LOCATION OF NEW "DRY UTILITIES" WITH THE APPROPRIATE UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO: TELEPHONE SERVICE, GAS SERVICE, CABLE, POWER, INTERNET.
- 2. EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING A COMBINATION OF ON-SITE SURVEYS (BY OTHERS). PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE IN THE FIELD, THEIR MAIN AND SERVICE LINES 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK. THE CONTRACTOR SHALL RECORD THE BLUE STAKES ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY
- COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT. CONTRACTOR SHALL POT HOLE ALL UTILITIES TO DETERMINE IF CONFLICTS EXIST PRIOR TO BEGINNING ANY EXCAVATION. NOTIFY ENGINEER OF ANY CONFLICTS. CONTRACTOR SHALL VERIFY LOCATION AND INVERTS OF EXISTING UTILITIES TO WHICH NEW UTILITIES WILL BE CONNECTED. PRIOR TO COMMENCING ANY EXCAVATION WORK THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE REQUIRED PROCEDURES.
- 4. CARE SHOULD BE TAKEN IN ALL EXCAVATIONS DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES
- INCURRED DURING CONSTRUCTION OPERATIONS AT HIS EXPENSE. ALL VALVES AND MANHOLE COVERS SHALL BE RAISED OR LOWERED TO MEET FINISHED GRADE.
- CONTRACTOR SHALL CUT PIPES OFF FLUSH WITH THE INSIDE WALL OF THE BOX OR MANHOLE. 7. CONTRACTOR SHALL GROUT AT CONNECTION OF PIPE TO BOX WITH NON-SHRINKING GROUT, INCLUDING PIPE VOIDS LEFT BY CUTTING PROCESS, TO
- A SMOOTH FINISH 8. CONTRACTOR SHALL GROUT WITH NON-SHRINK GROUT BETWEEN GRADE RINGS AND BETWEEN BOTTOM OF INLET LID FRAME AND TOP OF CONCRETE
- 9. SILT AND DEBRIS IS TO BE CLEANED OUT OF ALL STORM DRAIN BOXES. CATCH BASINS ARE TO BE MAINTAINED IN A CLEANED CONDITION AS NEEDED UNTIL AFTER THE FINAL BOND RELEASE INSPECTION.
- 10. CONTRACTOR SHALL CLEAN ASPHALT, TAR OR OTHER ADHESIVES OFF OF ALL MANHOLE LIDS AND INLET GRATES TO ALLOW ACCESS. 11. EACH TRENCH SHALL BE EXCAVATED SO THAT THE PIPE CAN BE LAID TO THE ALIGNMENT AND GRADE AS REQUIRED. THE TRENCH WALL SHALL BE SO BRACED THAT THE WORKMEN MAY WORK SAFELY AND EFFICIENTLY. ALL TRENCHES SHALL BE DRAINED SO THE PIPE LAYING MAY TAKE PLACE IN
- DE-WATERED CONDITIONS. 12. CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES AMPLE MEANS AND DEVICES WITH WHICH TO REMOVE PROMPTLY AND TO PROPERLY
- DISPOSE OF ALL WATER ENTERING THE TRENCH EXCAVATION. 13. MAINTAIN A MINIMUM 18" VERTICAL SEPARATION DISTANCE BETWEEN ALL UTILITY CROSSINGS.
- 14. CONTRACTOR SHALL START INSTALLATION AT LOW POINT OF ALL NEW GRAVITY UTILITY LINES.
- 15. ALL BOLTED FITTINGS MUST BE GREASED AND WRAPPED. 16. UNLESS SPECIFICALLY NOTED OTHERWISE, MAINTAIN AT LEAST 2 FEET OF COVER OVER ALL STORM DRAIN LINES AT ALL TIMES (INCLUDING DURING
- 17. ALL CULINARY WATER LINES MATERIALS AND INSTALLATION SHALL MEET TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT (TWWWID) STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL NOTIFY DISTRICT 48 HOURS PRIOR TO PRE-CONSTRUCTION MEETING AND ANY WORK DONE ON CULINARY LINE. CULINARY LINE MINIMUM COVER 4' BELOW FINISH GRADE.
- 18. ALL SEWER LINES AND SEWER SERVICES SHALL HAVE A MINIM'UM SEPARATION OF 10 FEET, PIPE EDGE TO PIPE EDGE, FROM THE WATER LINES. IF A 10 FOOT SEPARATION CAN NOT BE MAINTAINED, THE SEWER LINE AND WATER LINE SHALL BE LAID IN SEPARATE TRENCHES AND THE BOTTOM OF THE WATER LINE SHALL BE AT LEAST 18" ABOVE THE TOP OF THE SEWER LINE.
- 19. CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE ANGLE POINTS AND TEES. 20. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK AND STREET PAVING.
- 21. CONTRACTOR SHALL INSTALL MAGNETIC LOCATING TAPE CONTINUOUSLY OVER ALL NONMETALLIC PIPE.
- 22. THRUST BLOCKS & RESTRAINED JOINTS WITH MEGA-LUG ADAPTERS REQUIRED ON ALL BENDS AND FITTINGS USING BLUE BOLTS. PROTECT ALL BOLTS FROM BEING ENCASED IN CONCRETE. INSTALL PER MANUFACTURER RECOMMENDATIONS.
- 23. VERTICAL TRANSITIONS OF CULINARY MAIN, HIGH POINTS SHALL BE NEAR SERVICE LATERALS TO ALLOW AIR RELEASE, OR COMBINATION AIR VAC PER DISTRICT STANDARD SHALL BE INCORPORATED, CONTRACTOR TO VERIFY WITH DISTRICT INSPECTOR.

Notice to Contractor:

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON RECORDS OF THE VARIOUS UTILITY COMPANIES AND/OR MUNICIPALITIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

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

SAWCUT EXISTING ASPHALT INSIDE FROM OUTER EDGE FOR TACK SEAL OF NEW ASPHALT CONTRACTOR TO VERIFY 2% MIN. AND 5% MAX SLOPE FROM EDGE OF ASPHALT TO LIP OF GUTTER

Survey Control Note:

THE CONTRACTOR OR SURVEYOR SHALL BE RESPONSIBLE FOR FOLLOWING THE NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS (NSPS) MODEL STANDARDS FOR ANY SURVEYING OR CONSTRUCTION LAYOUT TO BE COMPLETED USING REEVE & ASSOCIATES, INC. SURVEY DATA OR CONSTRUCTION IMPROVEMENT PLANS. PRIOR TO PROCEEDING WITH CONSTRUCTION STAKING, THE SURVEYOR SHALL BE RESPONSIBLE FOR VERIFYING HORIZONTAL CONTROL FROM THE SURVEY MONUMENTS AND FOR VERIFYING ANY ADDITIONAL CONTROL POINTS SHOWN ON AN ALTA SURVEY. IMPROVEMENT PLAN. OR ANY ELECTRONIC DATA PROVIDED. THE SURVEYOR SHALL ALSO USE THE BENCHMARKS AS SHOWN ON THE PLAN, AND VERIFY THEM AGAINST NO LESS THAN FIVE (5) EXISTING HARD IMPROVEMENT ELEVATIONS INCLUDED ON THESE PLANS OR ON ELECTRONIC DATA PROVIDED. IF ANY DISCREPANCIES ARE ENCOUNTERED, THE SURVEYOR SHALL IMMEDIATELY NOTIFY REEVE & ASSOCIATES, INC. AND RESOLVE THE DISCREPANCIES BEFORE PROCEEDING WITH ANY CONSTRUCTION STAKING.

Erosion Control General Notes:

THE CONTRACTOR TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO GOVERNING AGENCIES ORDINANCES AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE COUNTIES. ALSO, INSPECTORS WILL HAVE THE RIGHT TO CHANGE THE FACILITIES AS NEEDED.

CONTRACTOR SHALL KEEP THE SITE WATERED TO CONTROL DUST. CONTRACTOR TO LOCATE A NEARBY HYDRANT FOR USE AND TO INSTALL TEMPORARY METER. CONSTRUCTION WATER COST TO BE INCLUDED IN BID.

WHEN GRADING OPERATIONS ARE COMPLETED AND THE DISTURBED GROUND IS LEFT OPEN FOR 14 DAYS OR MORE. THE AREA SHALL BE FURROWED PARALLEL TO THE CONTOURS.

THE CONTRACTOR SHALL MODIFY EROSION CONTROL MEASURES TO ACCOMMODATE PROJECT PLANNING.

ALL ACCESS TO PROPERTY WILL BE FROM PUBLIC RIGHT-OF-WAYS. THE CONTRACTOR IS REQUIRED BY STATE AND FEDERAL REGULATIONS TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN AND FILE A "NOTICE OF INTENT" WITH THE GOVERNING AGENCIES.

Maintenance:

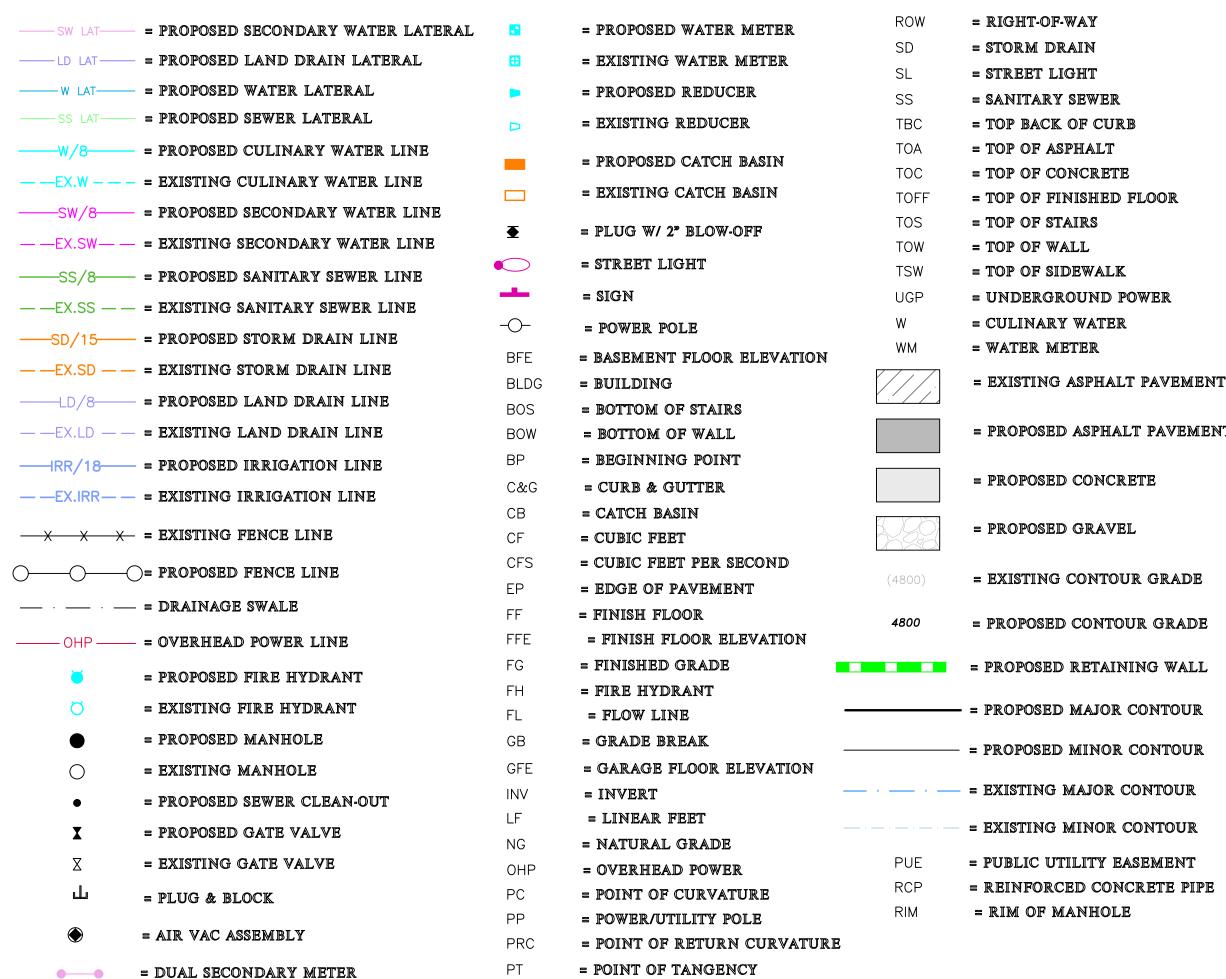
ALL BEST MANAGEMENT PRACTICES (BMP'S) SHOWN ON THIS PLAN MUST BE MAINTAINED AT ALL TIMES UNTIL PROJECT CLOSE-OUT.

THE CONTRACTOR'S RESPONSIBILITY SHALL INCLUDE MAKING BI-WEEKLY CHECKS ON ALL EROSION CONTROL MEASURES TO DETERMINE IF REPAIR OR SEDIMENT REMOVAL IS NECESSARY. CHECKS SHALL BE DOCUMENTED AND COPIES OF THE INSPECTIONS KEPT ON SITE.

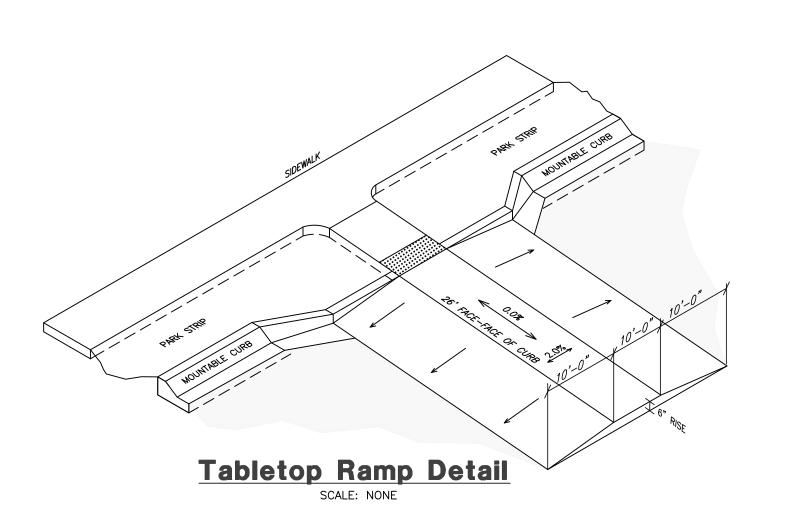
SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF BARRIER.

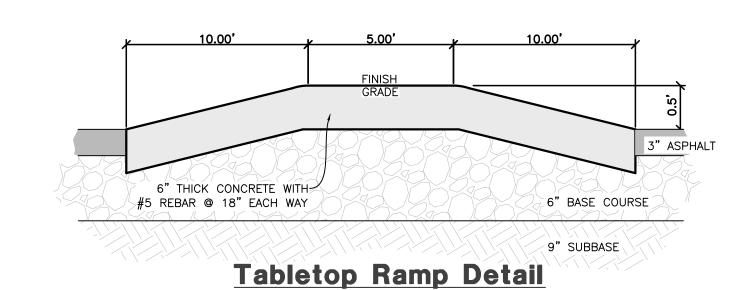
SEDIMENT TRACKED ONTO PAVED ROADS MUST BE CLEANED UP AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN THE END OF THE NORMAL WORK DAY. THE CLEAN UP WILL INCLUDE SWEEPING OF THE TRACKED MATERIAL, PICKING IT UP, AND DEPOSITING IT TO A CONTAINED AREA. EXPOSED SLOPES:

- ANY EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING MFTHODS:
- A) SPRAYING DISTURBED AREAS WITH A TACKIFIER VIA HYDROSEED B) TRACKING STRAW PERPENDICULAR TO SLOPES
- C) INSTALLING A LIGHT-WEIGHT, TEMPORARY EROSION CONTROL BLANKET



Legend





-PROPERTY LINE PROPERTY LINE -20' 10' CONCRETE PATH GRAVEL GRAVEL -6" CONCRETE

> 20' TRAIL EASEMENT DETAIL SCALE: NONE

23-10-11-

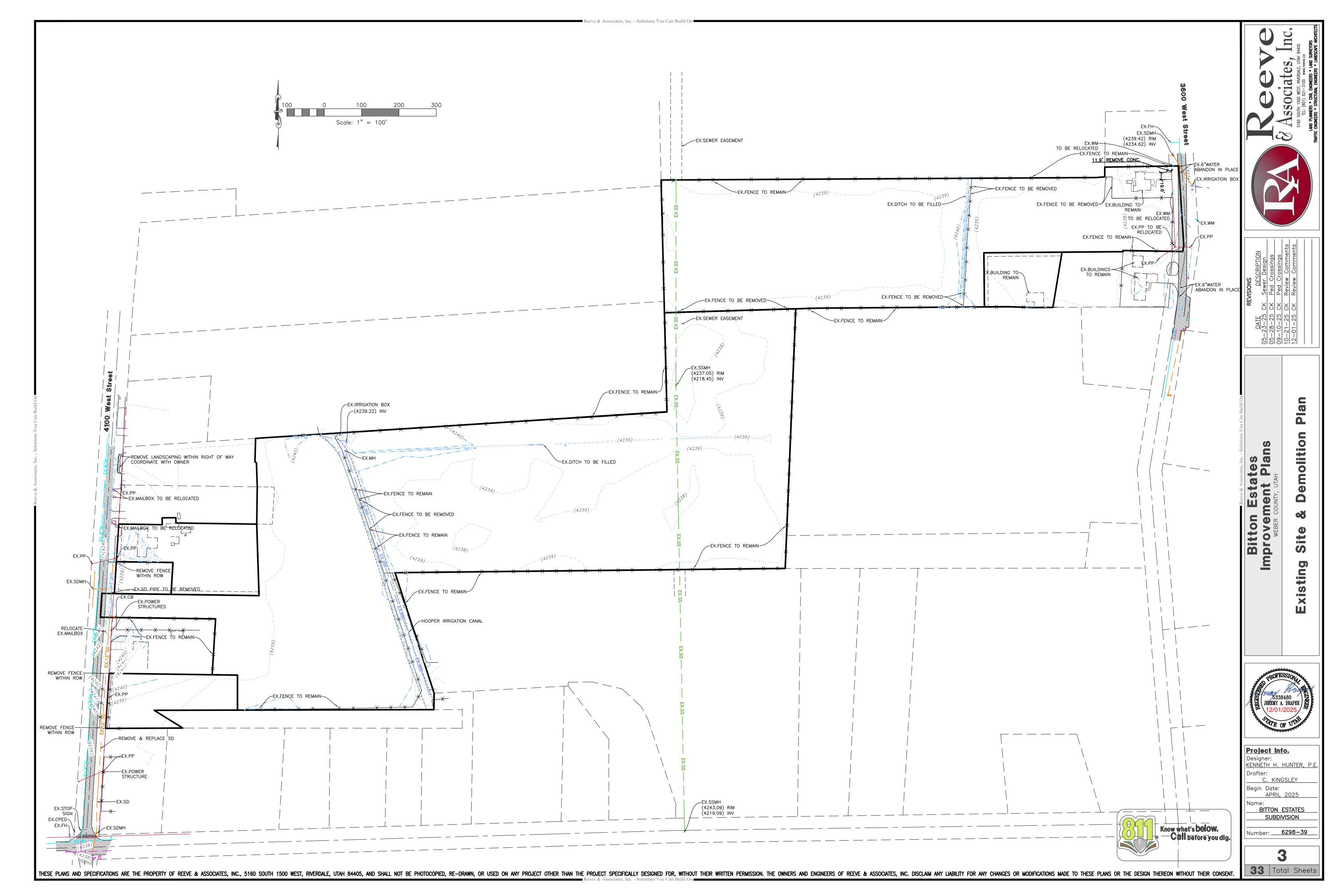
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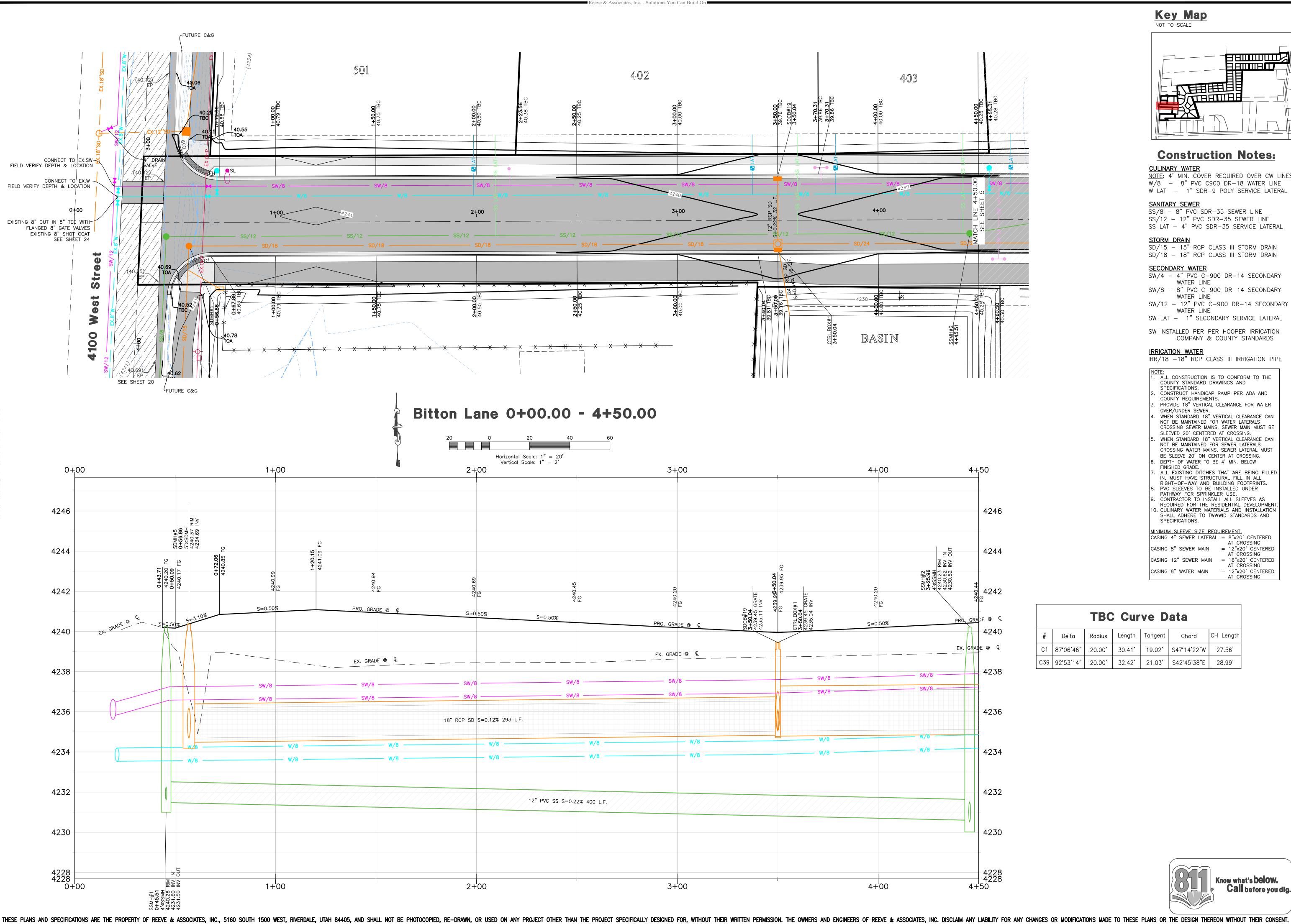


Project Info. KENNETH H. HUNTER, P. Drafter: C. KINGSLEY Begin Date: APRIL 2025 BITTON ESTATES SUBDIVISION

Number: <u>6298–39</u>

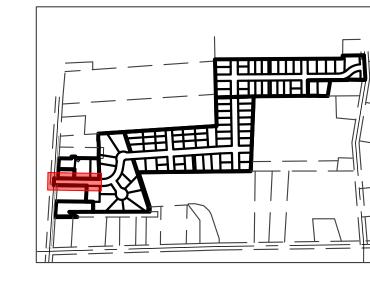
THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF REEVE & ASSOCIATES, INC., 5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405, AND SHALL NOT BE PHOTOCOPIED, RE-DRAWN, OR USED ON ANY PROJECT OTHER THAN THE PROJECT SPECIFICALLY DESIGNED FOR, WITHOUT THEIR WRITTEN PERMISSION. THE OWNERS AND ENGINEERS OF REEVE & ASSOCIATES, INC., 5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405, AND SHALL NOT BE PHOTOCOPIED, RE-DRAWN, OR USED ON ANY PROJECT OTHER THAN THE PROJECT SPECIFICALLY DESIGNED FOR, WITHOUT THEIR WRITTEN PERMISSION. THE OWNERS AND ENGINEERS OF REEVE & ASSOCIATES, INC., 5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405, AND SHALL NOT BE PHOTOCOPIED, RE-DRAWN, OR USED ON ANY PROJECT OTHER THAN THE PROJECT SPECIFICALLY DESIGNED FOR, WITHOUT THEIR CONSENT.





Key Map

NOT TO SCALE



Construction Notes:

CULINARY WATER

NOTE: 4' MIN. COVER REQUIRED OVER CW LINES W/8 - 8" PVC C900 DR-18 WATER LINE W LAT - 1" SDR-9 POLY SERVICE LATERAL

SANITARY SEWER

SS/8 - 8" PVC SDR-35 SEWER LINE SS/12 - 12" PVC SDR-35 SEWER LINE SS LAT - 4" PVC SDR-35 SERVICE LATERAL

STORM DRAIN SD/15 - 15" RCP CLASS III STORM DRAIN SD/18 - 18" RCP CLASS III STORM DRAIN

WATER LINE

SECONDARY WATER SW/4 - 4" PVC C-900 DR-14 SECONDARY

SW/8 - 8" PVC C-900 DR-14 SECONDARY WATER LINE SW/12 - 12" PVC C-900 DR-14 SECONDARY WATER LINE SW LAT - 1" SECONDARY SERVICE LATERAL

SW INSTALLED PER PER HOOPER IRRIGATION COMPANY & COUNTY STANDARDS

IRR/18 -18" RCP CLASS III IRRIGATION PIPE

. ALL CONSTRUCTION IS TO CONFORM TO THE COUNTY STANDARD DRAWINGS AND

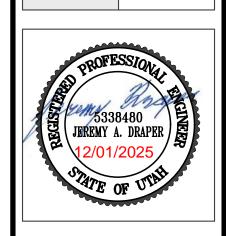
- SPECIFICATIONS.
 CONSTRUCT HANDICAP RAMP PER ADA AND COUNTY REQUIREMENTS.
- PROVIDE 18" VERTICAL CLEARANCE FOR WATER OVER/UNDER SEWER. WHEN STANDARD 18" VERTICAL CLEARANCE CAN
- NOT BE MAINTAINED FOR WATER LATERALS
 CROSSING SEWER MAINS, SEWER MAIN MUST BE SLEEVED 20' CENTERED AT CROSSING. WHEN STANDARD 18" VERTICAL CLEARANCE CAN NOT BE MAINTAINED FOR SEWER LATERALS
- CROSSING WATER MAINS, SEWER LATERAL MUST BE SLEEVE 20' ON CENTER AT CROSSING.
- DEPTH OF WATER TO BE 4' MIN. BELOW FINISHED GRADE. ALL EXISTING DITCHES THAT ARE BEING FILLED
- IN, MUST HAVE STRUCTURAL FILL IN ALL RIGHT-OF-WAY AND BUILDING FOOTPRINTS
- PVC SLEEVES TO BE INSTALLED UNDER PATHWAY FOR SPRINKLER USE.
 CONTRACTOR TO INSTALL ALL SLEEVES AS
- REQUIRED FOR THE RESIDENTIAL DEVELOPMENT D. CULINARY WATER MATERIALS AND INSTALLATION SHALL ADHERE TO TWWWID STANDARDS AND SPECIFICATIONS.

MINIMUM SLEEVE SIZE REQUIREMENT:

CASING 4" SEWER LATERAL = 8"x20' CENTERED

AT CROSSING = 12"x20' CENTERED AT CROSSING = 16"x20' CENTERED AT CROSSING = 12"x20' CENTERED

TBC Curve Data							
#	Delta	Radius	Length	Tangent	Chord	CH Length	
C1	87°06'46"	20.00'	30.41	19.02'	S47°14'22"W	27.56	
C39	92°53'14"	20.00'	32.42'	21.03'	S42°45'38"E	28.99'	



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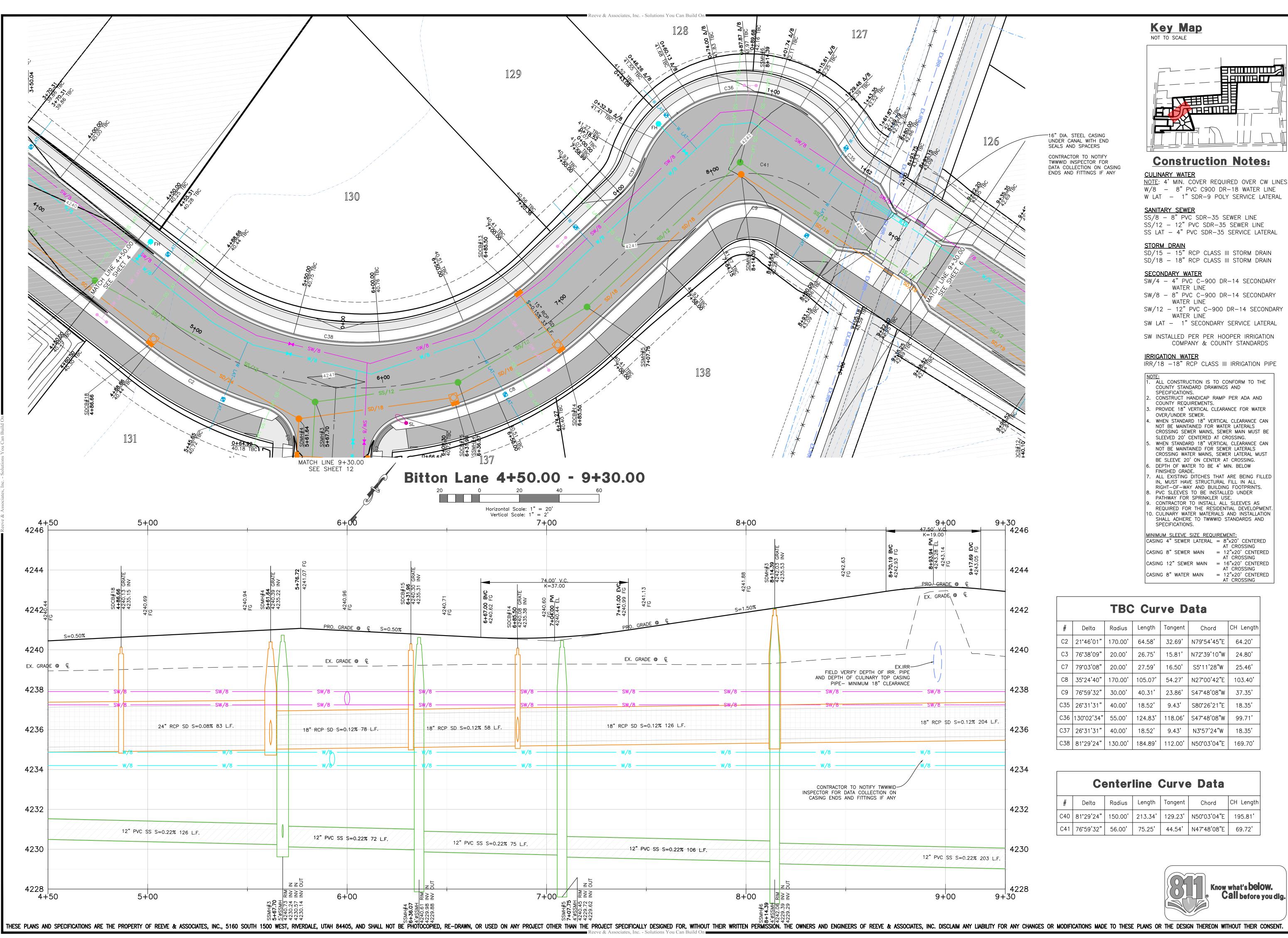
Project Info.
Designer: <u>KENNETH H. HUNTER,</u>
KENNETH H. HUNTER,
Drafter:
C. KINGSLEY

Begin Date:

Number: <u>6298-39</u>

Know what's **below.**Call before you dig.

BITTON ESTATES SUBDIVISION



Key Map

NOT TO SCALE

Construction Notes:

CULINARY WATER

NOTE: 4' MIN. COVER REQUIRED OVER CW LINES W/8 - 8" PVC C900 DR-18 WATER LINE W LAT - 1" SDR-9 POLY SERVICE LATERAL

SANITARY SEWER

SS/8 - 8" PVC SDR-35 SEWER LINE SS/12 - 12" PVC SDR-35 SEWER LINE SS LAT - 4" PVC SDR-35 SERVICE LATERAL

STORM DRAIN

SD/15 - 15" RCP CLASS III STORM DRAIN SD/18 - 18" RCP CLASS III STORM DRAIN

SECONDARY WATER SW/4 - 4" PVC C-900 DR-14 SECONDARY

WATER LINE SW/8 - 8" PVC C-900 DR-14 SECONDARY WATER LINE

SW/12 - 12" PVC C-900 DR-14 SECONDARY WATER LINE SW LAT - 1" SECONDARY SERVICE LATERAL

SW INSTALLED PER PER HOOPER IRRIGATION COMPANY & COUNTY STANDARDS

IRRIGATION WATER

IRR/18 -18" RCP CLASS III IRRIGATION PIPE

. ALL CONSTRUCTION IS TO CONFORM TO THE COUNTY STANDARD DRAWINGS AND SPECIFICATIONS.

- CONSTRUCT HANDICAP RAMP PER ADA AND COUNTY REQUIREMENTS. PROVIDE 18" VERTICAL CLEARANCE FOR WATER
- OVER/UNDER SEWER. WHEN STANDARD 18" VERTICAL CLEARANCE CAN NOT BE MAINTAINED FOR WATER LATERALS
- CROSSING SEWER MAINS, SEWER MAIN MUST BE SLEEVED 20' CENTERED AT CROSSING. WHEN STANDARD 18" VERTICAL CLEARANCE CAN
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- IN, MUST HAVE STRUCTURAL FILL IN ALL RIGHT-OF-WAY AND BUILDING FOOTPRINTS.
- PATHWAY FOR SPRINKLER USE.
- 9. CONTRACTOR TO INSTALL ALL SLEEVES AS
 REQUIRED FOR THE RESIDENTIAL DEVELOPMENT.
 10. CULINARY WATER MATERIALS AND INSTALLATION SHALL ADHERE TO TWWWID STANDARDS AND SPECIFICATIONS.

MINIMUM SLEEVE SIZE REQUIREMENT:

CASING 4" SEWER LATERAL = 8"x20' CENTERED AT CROSSING
= 12"x20' CENTERED AT CROSSING = 16"x20' CENTERED

AT CROSSING CASING 8" WATER MAIN = 12"x20' CENTERED AT CROSSING

	TBC Curve Data								
#	Delta	Radius	Length	Tangent	Chord	CH Length			
C2	21°46'01"	170.00'	64.58	32.69'	N79°54'45"E	64.20'			
С3	76°38'09"	20.00'	26.75	15.81'	N72°39'10"W	24.80'			
C7	79°03'08"	20.00'	27.59'	16.50'	S5°11'28"W	25.46'			
C8	35°24'40"	170.00'	105.07	54.27	N27°00'42"E	103.40'			
С9	76°59'32"	30.00'	40.31	23.86	S47°48'08"W	37.35'			
C35	26°31'31"	40.00'	18.52'	9.43'	S80°26'21"E	18.35'			
C36	130°02'34"	55.00'	124.83	118.06	S47°48'08"W	99.71			
C37	26°31'31"	40.00'	18.52'	9.43'	N3°57'24"W	18.35'			
070	0.1*00'04"	170.00'	104.00'	110.00	NEO*07'04"E	100.70'			

Centerline Curve Data								
#	Delta	Radius	Length	Tangent	Chord	CH Length		
C40	81°29'24"	150.00'	213.34'	129.23'	N50°03'04"E	195.81		
C41	76°59'32"	56.00'	75.25'	44.54'	N47°48'08"E	69.72'		





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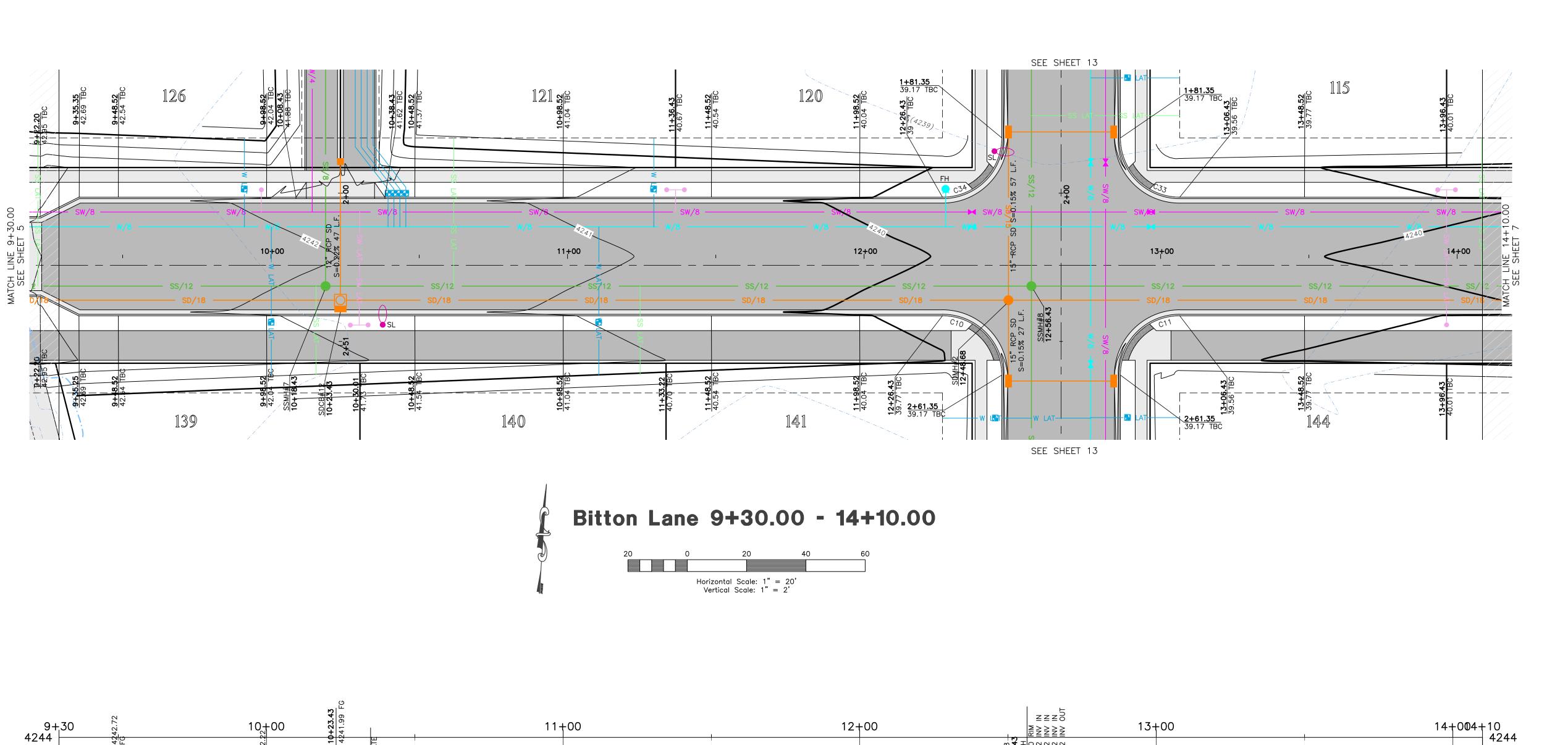
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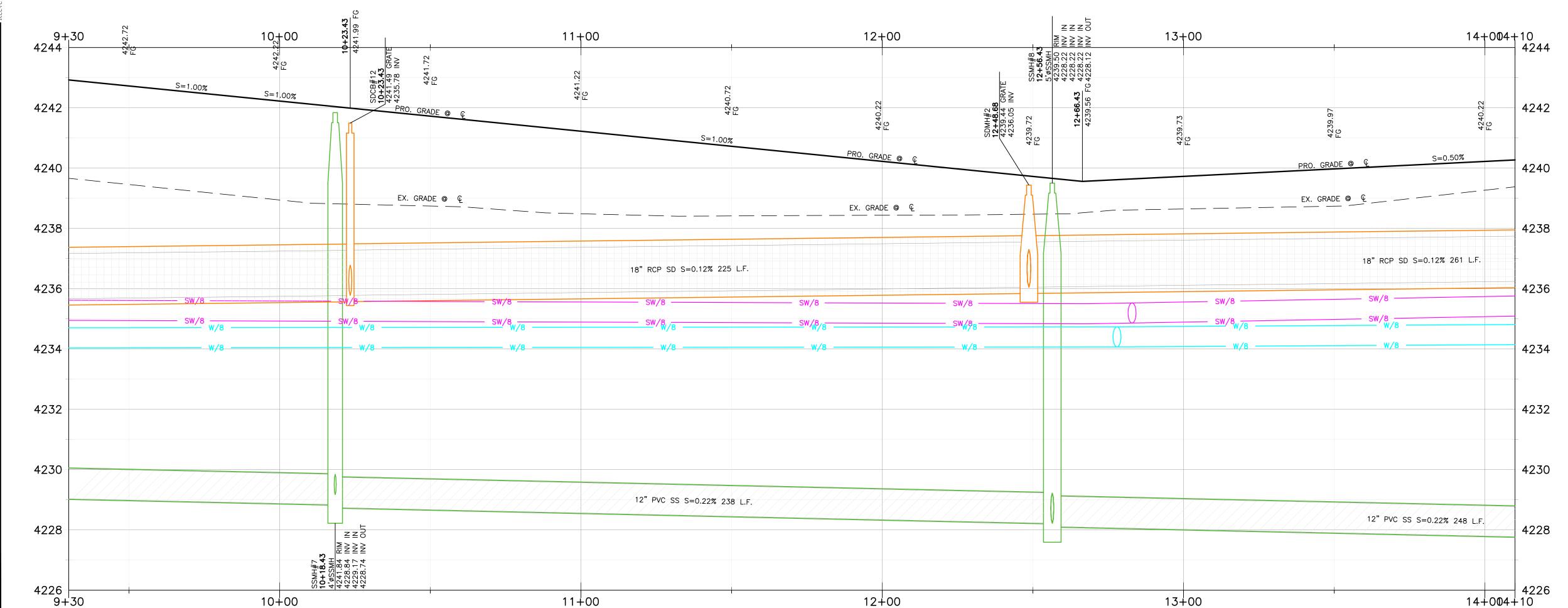
Bitton Improver

Project Info. KENNETH H. HUNTER, P. Drafter: C. KINGSLEY Begin Date: APRIL 2025

SUBDIVISION Number: <u>6298-39</u>

BITTON ESTATES





THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF REEVE & ASSOCIATES, INC., 5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405, AND SHALL NOT BE PHOTOCOPIED, RE-DRAWN, OR USED ON ANY PROJECT OTHER THAN THE PROJECT SPECIFICALLY DESIGNED FOR, WITHOUT THEIR CONSENT.

Key Map NOT TO SCALE

Construction Notes:

CULINARY WATER

NOTE: 4' MIN. COVER REQUIRED OVER CW LINES W/8 - 8" PVC C900 DR-18 WATER LINE W LAT - 1" SDR-9 POLY SERVICE LATERAL

SANITARY SEWER

SS/8 - 8" PVC SDR-35 SEWER LINE SS/12 - 12" PVC SDR-35 SEWER LINE SS LAT - 4" PVC SDR-35 SERVICE LATERAL

STORM DRAIN

SD/15 - 15" RCP CLASS III STORM DRAIN SD/18 - 18" RCP CLASS III STORM DRAIN

SECONDARY WATER

SW/4 - 4" PVC C-900 DR-14 SECONDARY WATER LINE SW/8 - 8" PVC C-900 DR-14 SECONDARY

SW LAT - 1" SECONDARY SERVICE LATERAL

WATER LINE SW/12 - 12" PVC C-900 DR-14 SECONDARY WATER LINE

SW INSTALLED PER PER HOOPER IRRIGATION COMPANY & COUNTY STANDARDS

IRRIGATION WATER

IRR/18 -18" RCP CLASS III IRRIGATION PIPE

NOTE: 1. ALL CONSTRUCTION IS TO CONFORM TO THE COUNTY STANDARD DRAWINGS AND

- SPECIFICATIONS.
 CONSTRUCT HANDICAP RAMP PER ADA AND
- COUNTY REQUIREMENTS. PROVIDE 18" VERTICAL CLEARANCE FOR WATER
- OVER/UNDER SEWER. WHEN STANDARD 18" VERTICAL CLEARANCE CAN
- NOT BE MAINTAINED FOR WATER LATERALS CROSSING SEWER MAINS, SEWER MAIN MUST BE SLEEVED 20' CENTERED AT CROSSING.
- WHEN STANDARD 18" VERTICAL CLEARANCE CAN NOT BE MAINTAINED FOR SEWER LATERALS CROSSING WATER MAINS, SEWER LATERAL MUST
- BE SLEEVE 20' ON CENTER AT CROSSING. DEPTH OF WATER TO BE 4' MIN. BELOW
- FINISHED GRADE. ALL EXISTING DITCHES THAT ARE BEING FILLED IN, MUST HAVE STRUCTURAL FILL IN ALL
- RIGHT-OF-WAY AND BUILDING FOOTPRINTS. PVC SLEEVES TO BE INSTALLED UNDER
- PATHWAY FOR SPRINKLER USE.
 CONTRACTOR TO INSTALL ALL SLEEVES AS REQUIRED FOR THE RESIDENTIAL DEVELOPMENT D. CULINARY WATER MATERIALS AND INSTALLATION

SHALL ADHERE TO TWWWID STANDARDS AND

SPECIFICATIONS.

CASING 4" SEWER LATERAL = 8"x20' CENTERED AT CROSSING = 12"x20' CENTERED AT CROSSING = 16"x20' CENTERED AT CROSSING = 12"x20' CENTERED

TBC Curve Data								
#	Delta	Radius	Length	Tangent	Chord	CH Length		
C10	90°00'00"	20.00'	31.42'	20.00'	N48°42'06"W	28.28'		
C11	90°00'00"	20.00'	31.42'	20.00'	S41°17'54"W	28.28'		
C33	90°00'00"	20.00'	31.42'	20.00'	S48°42'06"E	28.28'		
C34	90°00'00"	20.00'	31.42'	20.00'	N41°17'54"E	28.28		





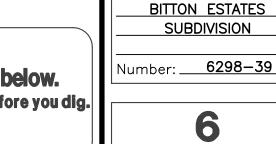
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05-28-25 CK	Ped Crossings
09-10-25 CK	Ped Crossings
10-21-25 CK	Review Comments
12-01-25 CK	Review Comments

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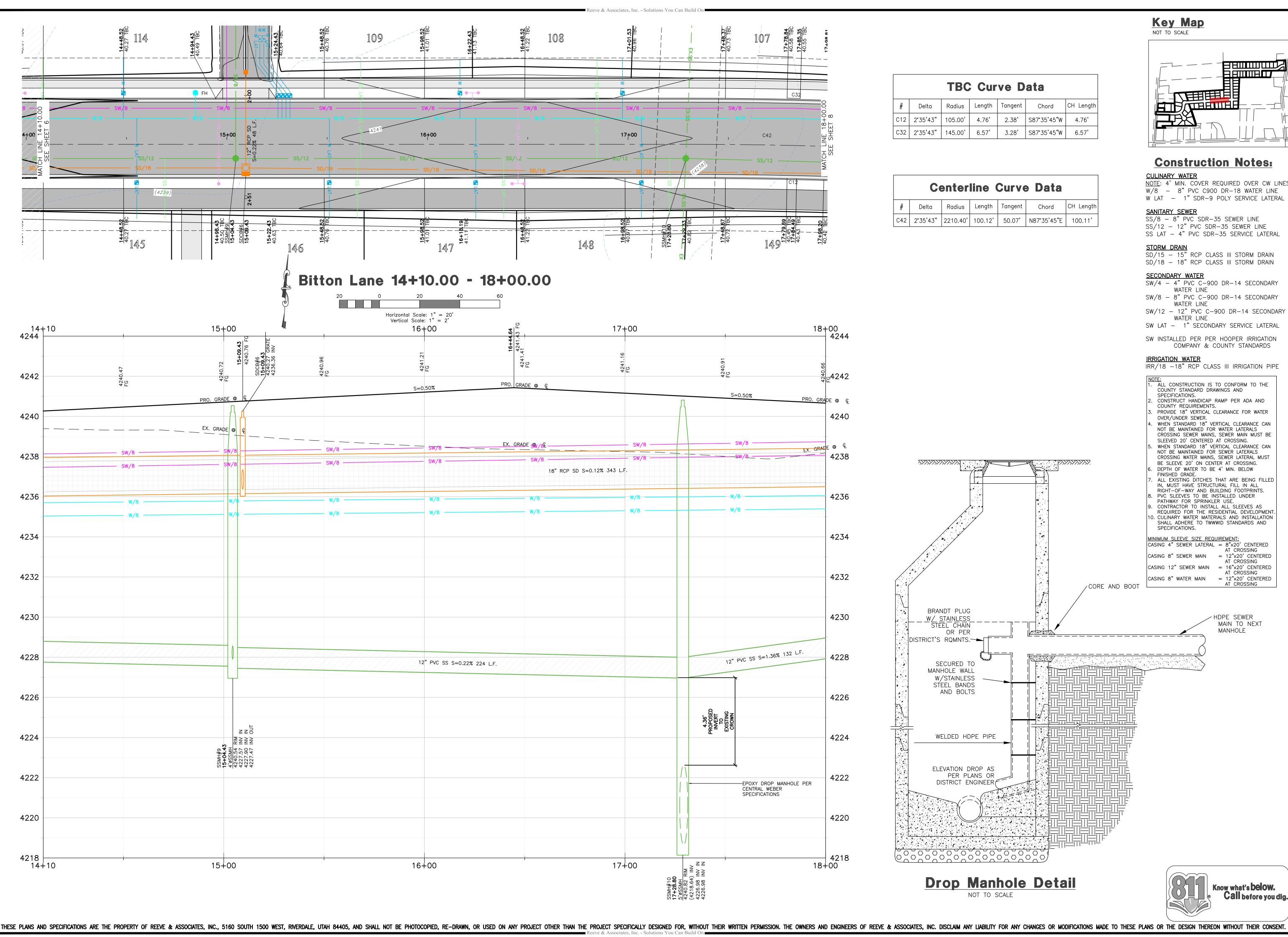
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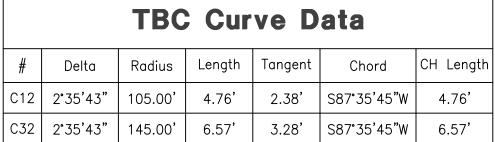


Project Info.	
Designer: <u>KENNETH H. HUNTER,</u>	P.E
Drafter: C. KINGSLEY	
Begin Date: APRIL 2025	
Name: BITTON ESTATES	
SUBDIVISION	

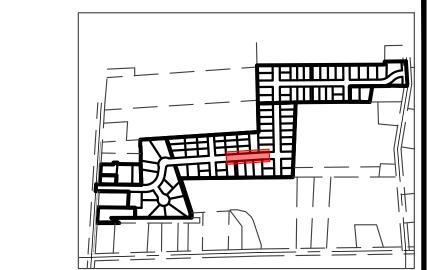








Centerline Curve Data						
#	Delta	Radius	Length	Tangent	Chord	CH Length
C42	2°35'43"	2210.40	100.12	50.07	N87°35'45"E	100.11



Construction Notes:

CULINARY WATER

Key Map

NOT TO SCALE

NOTE: 4' MIN. COVER REQUIRED OVER CW LINES W/8 - 8" PVC C900 DR-18 WATER LINE W LAT - 1" SDR-9 POLY SERVICE LATERAL

SANITARY SEWER

SS/8 - 8" PVC SDR-35 SEWER LINE SS/12 - 12" PVC SDR-35 SEWER LINE SS LAT - 4" PVC SDR-35 SERVICE LATERAL

STORM DRAIN

SD/15 - 15" RCP CLASS III STORM DRAIN SD/18 - 18" RCP CLASS III STORM DRAIN

SECONDARY WATER

SW/4 - 4" PVC C-900 DR-14 SECONDARY WATER LINE SW/8 - 8" PVC C-900 DR-14 SECONDARY WATER LINE

SW/12 - 12" PVC C-900 DR-14 SECONDARY WATER LINE SW LAT - 1" SECONDARY SERVICE LATERAL

SW INSTALLED PER PER HOOPER IRRIGATION COMPANY & COUNTY STANDARDS

IRRIGATION WATER

IRR/18 -18" RCP CLASS III IRRIGATION PIPE

ALL CONSTRUCTION IS TO CONFORM TO THE COUNTY STANDARD DRAWINGS AND SPECIFICATIONS. CONSTRUCT HANDICAP RAMP PER ADA AND

- COUNTY REQUIREMENTS. PROVIDE 18" VERTICAL CLEARANCE FOR WATER OVER/UNDER SEWER.
- WHEN STANDARD 18" VERTICAL CLEARANCE CAN NOT BE MAINTAINED FOR WATER LATERALS CROSSING SEWER MAINS, SEWER MAIN MUST BE SLEEVED 20' CENTERED AT CROSSING.
- WHEN STANDARD 18" VERTICAL CLEARANCE CAN NOT BE MAINTAINED FOR SEWER LATERALS CROSSING WATER MAINS, SEWER LATERAL MUST BE SLEEVE 20' ON CENTER AT CROSSING.
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- RIGHT-OF-WAY AND BUILDING FOOTPRINTS. PVC SLEEVES TO BE INSTALLED UNDER PATHWAY FOR SPRINKLER USE. CONTRACTOR TO INSTALL ALL SLEEVES AS
- REQUIRED FOR THE RESIDENTIAL DEVELOPMENT D. CULINARY WATER MATERIALS AND INSTALLATION SHALL ADHERE TO TWWWID STANDARDS AND SPECIFICATIONS.

MINIMUM SLEEVE SIZE REQUIREMENT CASING 4" SEWER LATERAL = 8"x20' CENTERED AT CROSSING = 12"x20' CENTERED

AT CROSSING = 16"x20' CENTERED AT CROSSING = 12"x20' CENTERED

HDPE SEWER

MAIN TO NEXT MANHOLE

CORE AND BOOT

OR PER DISTRICT'S RQMNTS. SECURED TO MANHOLE WALL W/STAINLESS STEEL BANDS AND BOLTS

WELDED HDPE PIPE ELEVATION DROP AS PER PLANS OR DISTRICT ENGINEER

Drop Manhole Detail



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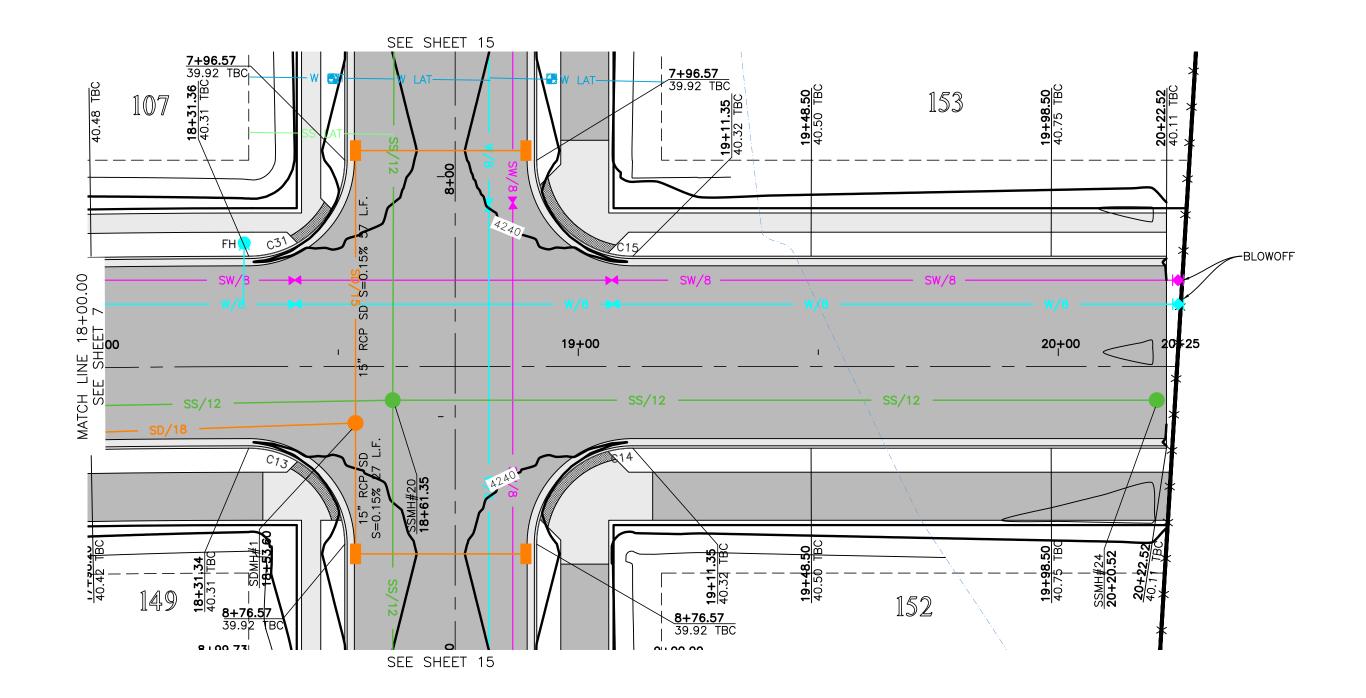
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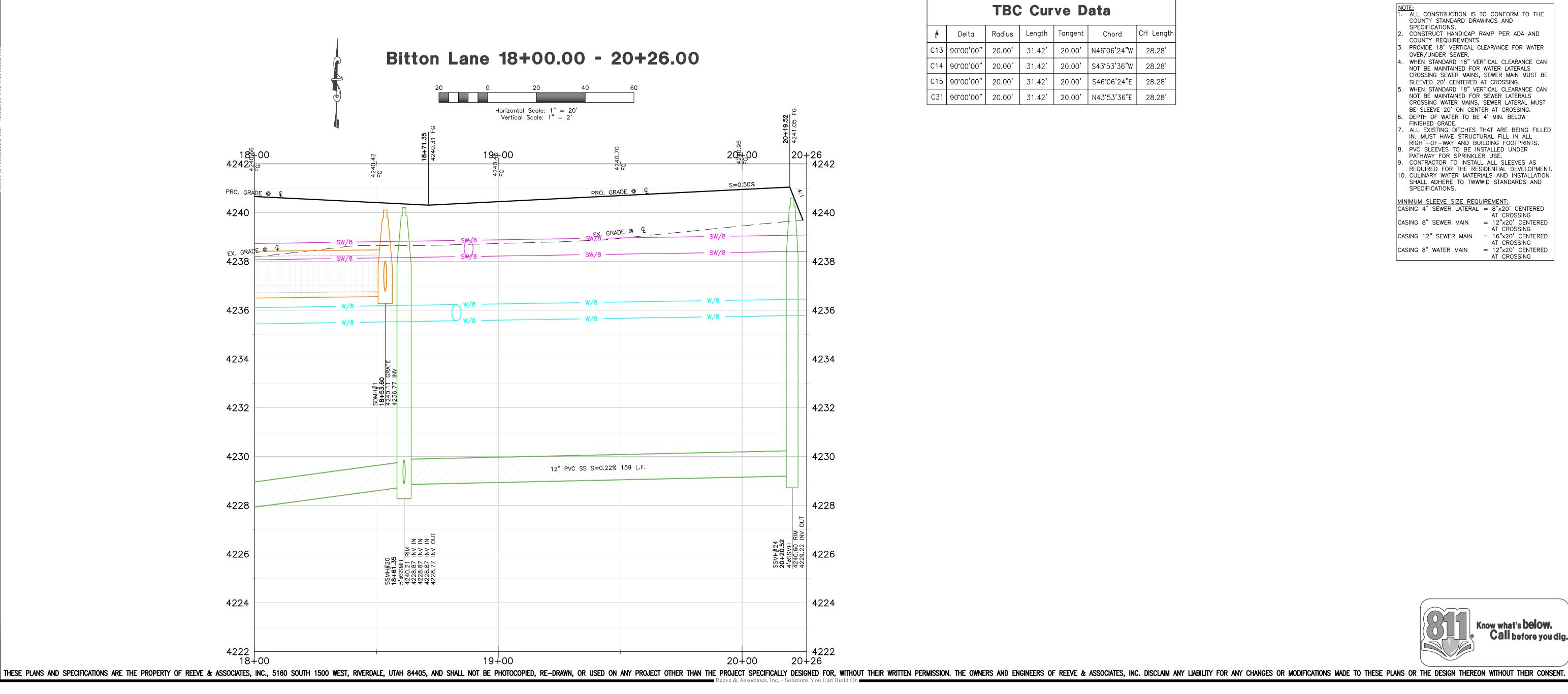
Bitton Improver

Project Info. KENNETH H. HUNTER, P.E Drafter: C. KINGSLEY Begin Date: APRIL 2025

BITTON ESTATES SUBDIVISION

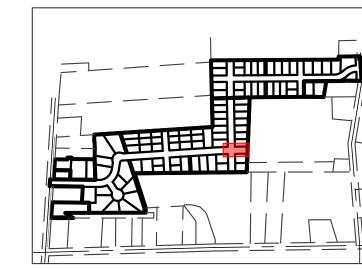
Number: <u>6298-39</u>





TBC Curve Data								
#	Delta	Radius	Length	Tangent	Chord	CH Length		
C13	90°00'00"	20.00'	31.42'	20.00'	N46°06'24"W	28.28'		
C14	90°00'00"	20.00'	31.42'	20.00'	S43°53'36"W	28.28'		
C15	90°00'00"	20.00'	31.42'	20.00'	S46°06'24"E	28.28'		
C31	90°00'00"	20.00'	31.42'	20.00'	N43°53'36"E	28.28'		





Construction Notes:

CULINARY WATER

NOTE: 4' MIN. COVER REQUIRED OVER CW LINES W/8 - 8" PVC C900 DR-18 WATER LINE W LAT - 1" SDR-9 POLY SERVICE LATERAL

SANITARY SEWER

SS/8 - 8" PVC SDR-35 SEWER LINE SS/12 - 12" PVC SDR-35 SEWER LINE SS LAT - 4" PVC SDR-35 SERVICE LATERAL

STORM DRAIN

SD/15 - 15" RCP CLASS III STORM DRAIN SD/18 - 18" RCP CLASS III STORM DRAIN

SECONDARY WATER

SW/4 - 4" PVC C-900 DR-14 SECONDARY WATER LINE SW/8 - 8" PVC C-900 DR-14 SECONDARY

WATER LINE SW/12 - 12" PVC C-900 DR-14 SECONDARY WATER LINE SW LAT - 1" SECONDARY SERVICE LATERAL

SW INSTALLED PER PER HOOPER IRRIGATION COMPANY & COUNTY STANDARDS

IRR/18 -18" RCP CLASS III IRRIGATION PIPE

NOTE: 1. ALL CONSTRUCTION IS TO CONFORM TO THE COUNTY STANDARD DRAWINGS AND

- SPECIFICATIONS.
 CONSTRUCT HANDICAP RAMP PER ADA AND COUNTY REQUIREMENTS.
- PROVIDE 18" VERTICAL CLEARANCE FOR WATER OVER/UNDER SEWER.
- WHEN STANDARD 18" VERTICAL CLEARANCE CAN NOT BE MAINTAINED FOR WATER LATERALS CROSSING SEWER MAINS, SEWER MAIN MUST BE SLEEVED 20' CENTERED AT CROSSING.
- WHEN STANDARD 18" VERTICAL CLEARANCE CAN NOT BE MAINTAINED FOR SEWER LATERALS CROSSING WATER MAINS, SEWER LATERAL MUST
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 PVC SLEEVES TO BE INSTALLED UNDER PATHWAY FOR SPRINKLER USE.

 CONTRACTOR TO INSTALL ALL SLEEVES AS REQUIRED FOR THE RESIDENTIAL DEVELOPMENT.
- 10. CULINARY WATER MATERIALS AND INSTALLATION SHALL ADHERE TO TWWWID STANDARDS AND SPECIFICATIONS.

MINIMUM SLEEVE SIZE REQUIREMENT:

CASING 4" SEWER LATERAL = 8"x20' CENTERED

AT CROSSING

CASING 8" SEWER MAIN = 12"x20' CENTERED AT CROSSING CASING 12" SEWER MAIN = 16"x20' CENTERED AT CROSSING = 12"x20' CENTERED







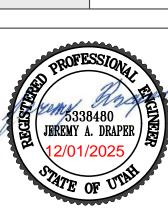
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	DATE DATE	05-23-23 CK	09-10-25 CK	0-21-25 CK	2-01-25 CK	
		05-28	09-10	10-21	12-01	

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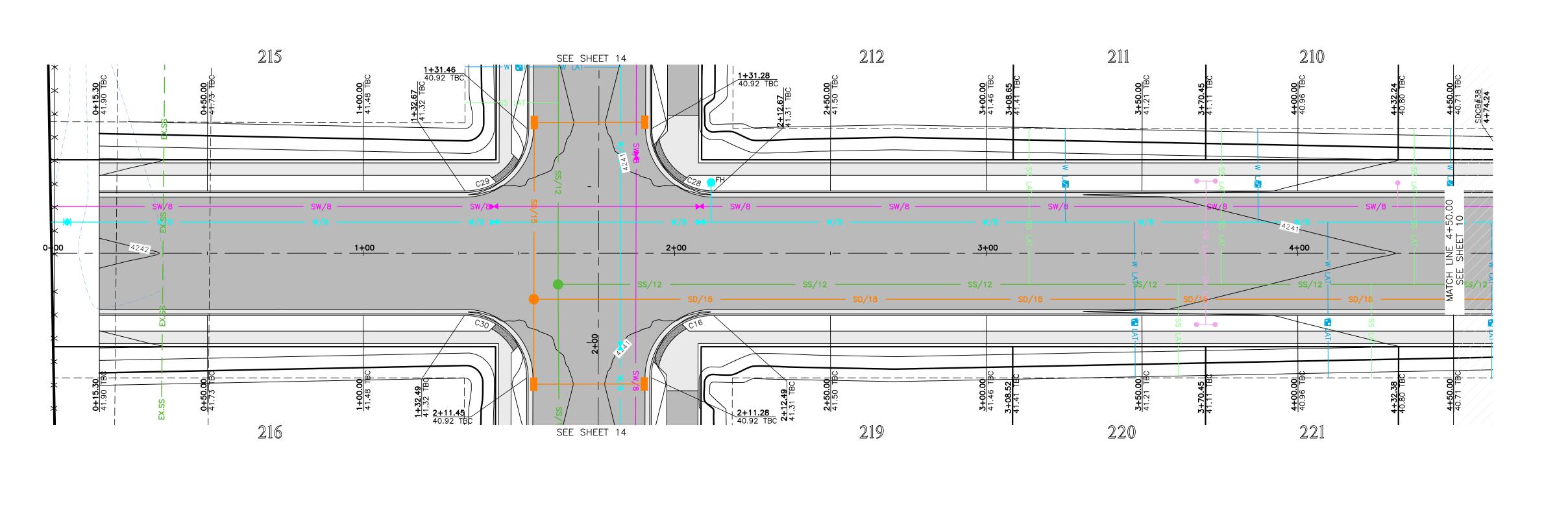
OF UTAH	
Project Info.	
Designer:	
KENNETH H. HUNTER,	<u>P.E.</u>
Drafter:	
C. KINGSLEY	
Begin Date:	
APRIL 2025	
Name:	

SUBDIVISION Number: <u>6298-39</u>

BITTON ESTATES

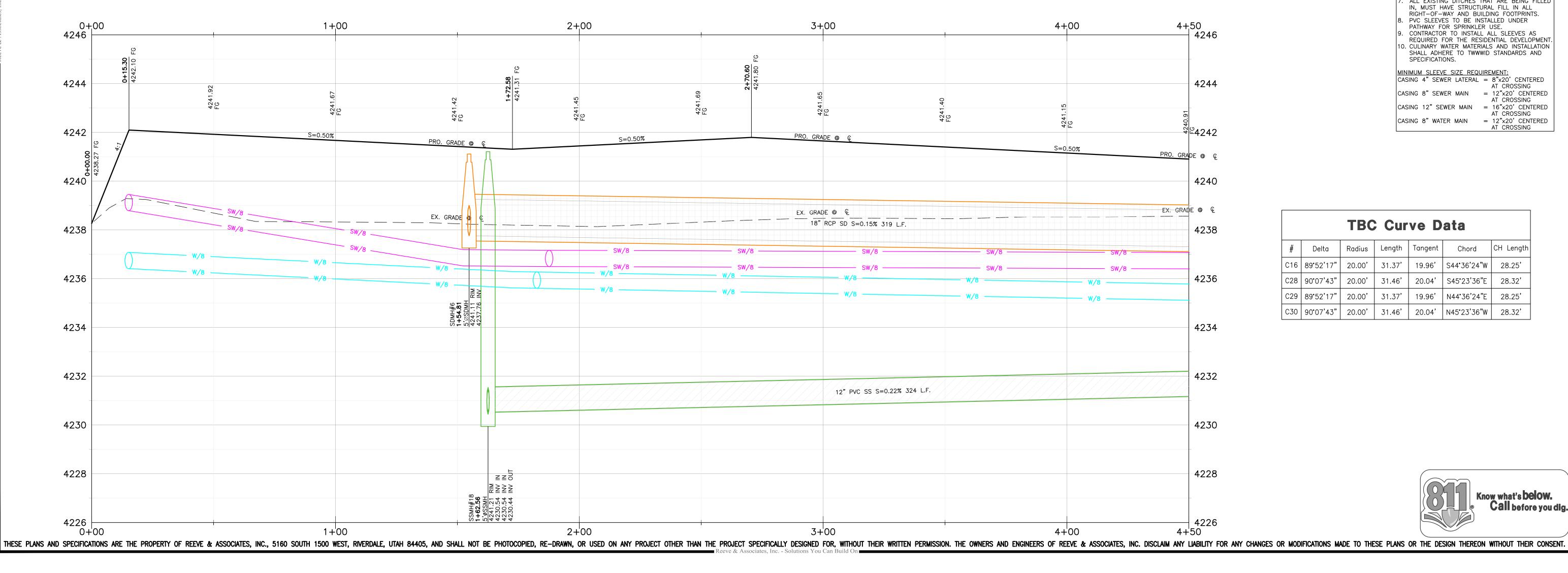
33 Total Sheets

Know what's **below.**Call before you dig.



Herrick Lane 0+00.00 - 4+50.00 Horizontal Scale: 1" = 20'

Vertical Scale: 1" = 2'



Key Map NOT TO SCALE



Construction Notes:

CULINARY WATER

NOTE: 4' MIN. COVER REQUIRED OVER CW LINES W/8 - 8" PVC C900 DR-18 WATER LINE W LAT - 1" SDR-9 POLY SERVICE LATERAL

SANITARY SEWER

SS/8 - 8" PVC SDR-35 SEWER LINE SS/12 - 12" PVC SDR-35 SEWER LINE SS LAT - 4" PVC SDR-35 SERVICE LATERAL

STORM DRAIN

SD/15 - 15" RCP CLASS III STORM DRAIN SD/18 - 18" RCP CLASS III STORM DRAIN

SECONDARY WATER

SW/4 - 4" PVC C-900 DR-14 SECONDARY WATER LINE SW/8 - 8" PVC C-900 DR-14 SECONDARY WATER LINE

SW/12 - 12" PVC C-900 DR-14 SECONDARY WATER LINE SW LAT - 1" SECONDARY SERVICE LATERAL

SW INSTALLED PER PER HOOPER IRRIGATION COMPANY & COUNTY STANDARDS

IRRIGATION WATER

IRR/18 -18" RCP CLASS III IRRIGATION PIPE

NOTE: 1. ALL CONSTRUCTION IS TO CONFORM TO THE COUNTY STANDARD DRAWINGS AND

- SPECIFICATIONS.
 CONSTRUCT HANDICAP RAMP PER ADA AND COUNTY REQUIREMENTS.
- PROVIDE 18" VERTICAL CLEARANCE FOR WATER OVER/UNDER SEWER. WHEN STANDARD 18" VERTICAL CLEARANCE CAN
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- D. CULINARY WATER MATERIALS AND INSTALLATION SHALL ADHERE TO TWWWID STANDARDS AND SPECIFICATIONS.

MINIMUM SLEEVE SIZE REQUIREMENT:

CASING 4" SEWER LATERAL = 8"x20' CENTERED

AT CROSSING

CASING 8" SEWER MAIN = 12"x20' CENTERED AT CROSSING CASING 12" SEWER MAIN = 16"x20' CENTERED AT CROSSING = 12"x20' CENTERED

TBC Curve Data								
#	Delta	Radius	Length	Tangent	Chord	CH Length		
C16	89°52'17"	20.00'	31.37'	19.96'	S44°36'24"W	28.25		
C28	90°07'43"	20.00'	31.46'	20.04	S45°23'36"E	28.32'		
C29	89°52'17"	20.00'	31.37'	19.96'	N44°36'24"E	28.25'		
C30	90°07'43"	20.00'	31.46	20.04	N45°23'36"W	28.32		





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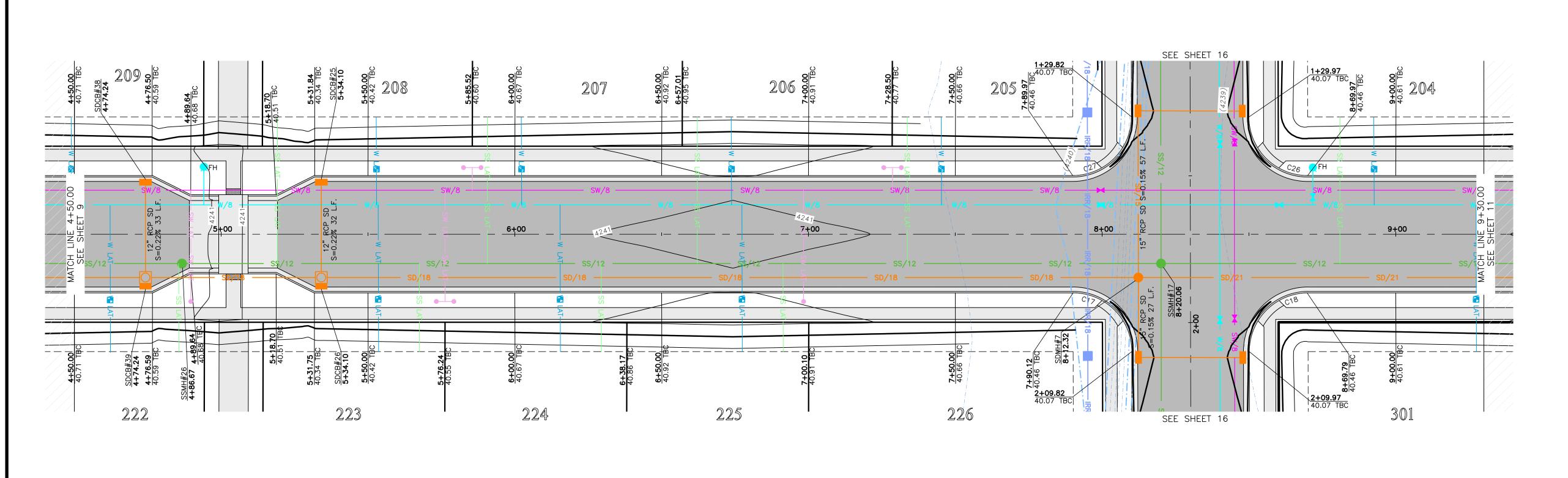
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Bitton Improver

Project Info. KENNETH H. HUNTER, P.E Drafter: C. KINGSLEY Begin Date: BITTON ESTATES

Number: <u>6298-39</u>

SUBDIVISION

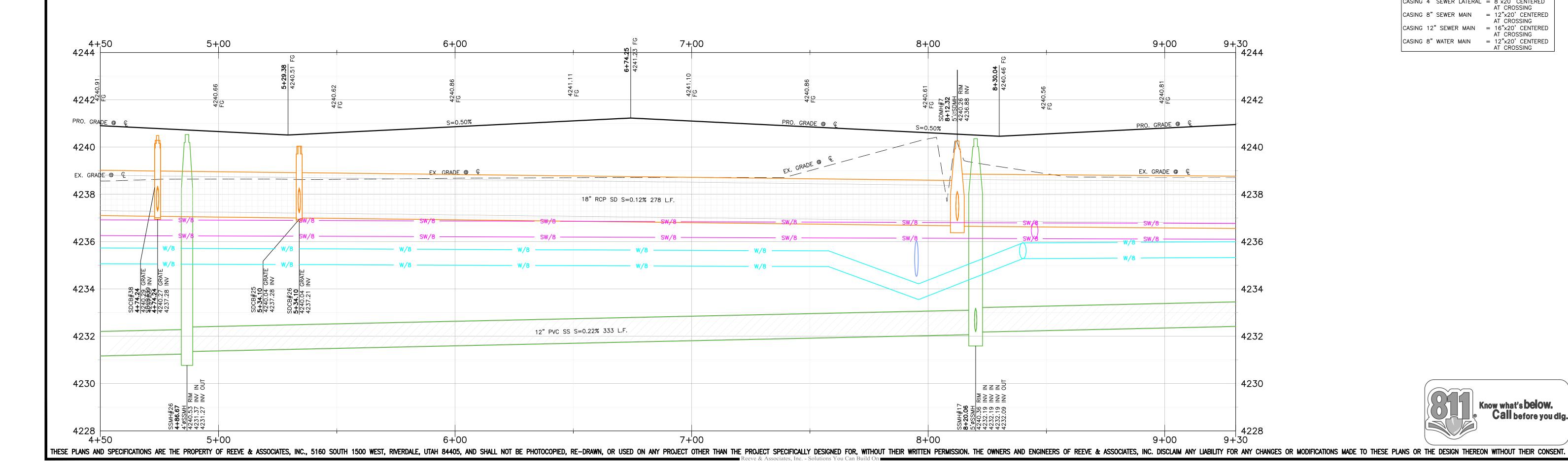


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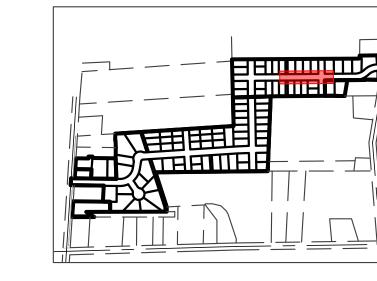
Horizontal Scale: 1" = 20' Vertical Scale: 1" = 2'

Reeve & Associates, Inc. - Solutions You Can Build On

TBC Curve Data Radius | Length | Tangent | Chord C17 | 89°53'24" | 20.00' | 31.38' | 19.96' | N45°30'45"W | 28.26' C18 90°06'36" 20.00' 31.45' 20.04' S44°29'15"W 28.31' C26 | 89°53'24" | 20.00' | 31.38' | 19.96' | S45°30'45"E | 28.26' C27 90°06'36" 20.00' 31.45' 20.04' N44°29'15"E 28.31'



Key Map NOT TO SCALE



Construction Notes:

<u>CULINARY WATER</u>
<u>NOTE</u>: 4' MIN. COVER REQUIRED OVER CW LINES W/8 - 8" PVC C900 DR-18 WATER LINE W LAT - 1" SDR-9 POLY SERVICE LATERAL

SANITARY SEWER

SS/8 - 8" PVC SDR-35 SEWER LINE SS/12 - 12" PVC SDR-35 SEWER LINE SS LAT - 4" PVC SDR-35 SERVICE LATERAL

STORM DRAIN

SD/15 - 15" RCP CLASS III STORM DRAIN SD/18 - 18" RCP CLASS III STORM DRAIN

SECONDARY WATER

SW/4 - 4" PVC C-900 DR-14 SECONDARY WATER LINE SW/8 - 8" PVC C-900 DR-14 SECONDARY

WATER LINE SW/12 - 12" PVC C-900 DR-14 SECONDARY WATER LINE SW LAT - 1" SECONDARY SERVICE LATERAL

SW INSTALLED PER PER HOOPER IRRIGATION COMPANY & COUNTY STANDARDS

IRR/18 -18" RCP CLASS III IRRIGATION PIPE

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- SPECIFICATIONS.
 CONSTRUCT HANDICAP RAMP PER ADA AND COUNTY REQUIREMENTS.
- PROVIDE 18" VERTICAL CLEARANCE FOR WATER OVER/UNDER SEWER.
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- DEPTH OF WATER TO BE 4' MIN. BELOW FINISHED GRADE. ALL EXISTING DITCHES THAT ARE BEING FILLED
- IN, MUST HAVE STRUCTURAL FILL IN ALL RIGHT-OF-WAY AND BUILDING FOOTPRINTS.
- PVC SLEEVES TO BE INSTALLED UNDER
 PATHWAY FOR SPRINKLER USE.
 CONTRACTOR TO INSTALL ALL SLEEVES AS
 REQUIRED FOR THE RESIDENTIAL DEVELOPMENT.
- 10. CULINARY WATER MATERIALS AND INSTALLATION SHALL ADHERE TO TWWWID STANDARDS AND SPECIFICATIONS.

MINIMUM SLEEVE SIZE REQUIREMENT:

CASING 4" SEWER LATERAL = 8"x20' CENTERED

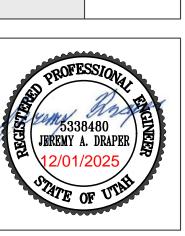
AT CROSSING = 12"x20' CENTERED AT CROSSING CASING 8" SEWER MAIN CASING 12" SEWER MAIN = 16"x20' CENTERED AT CROSSING = 12"x20' CENTERED





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Project Info. KENNETH H. HUNTER, P.E Drafter: C. KINGSLEY Begin Date:

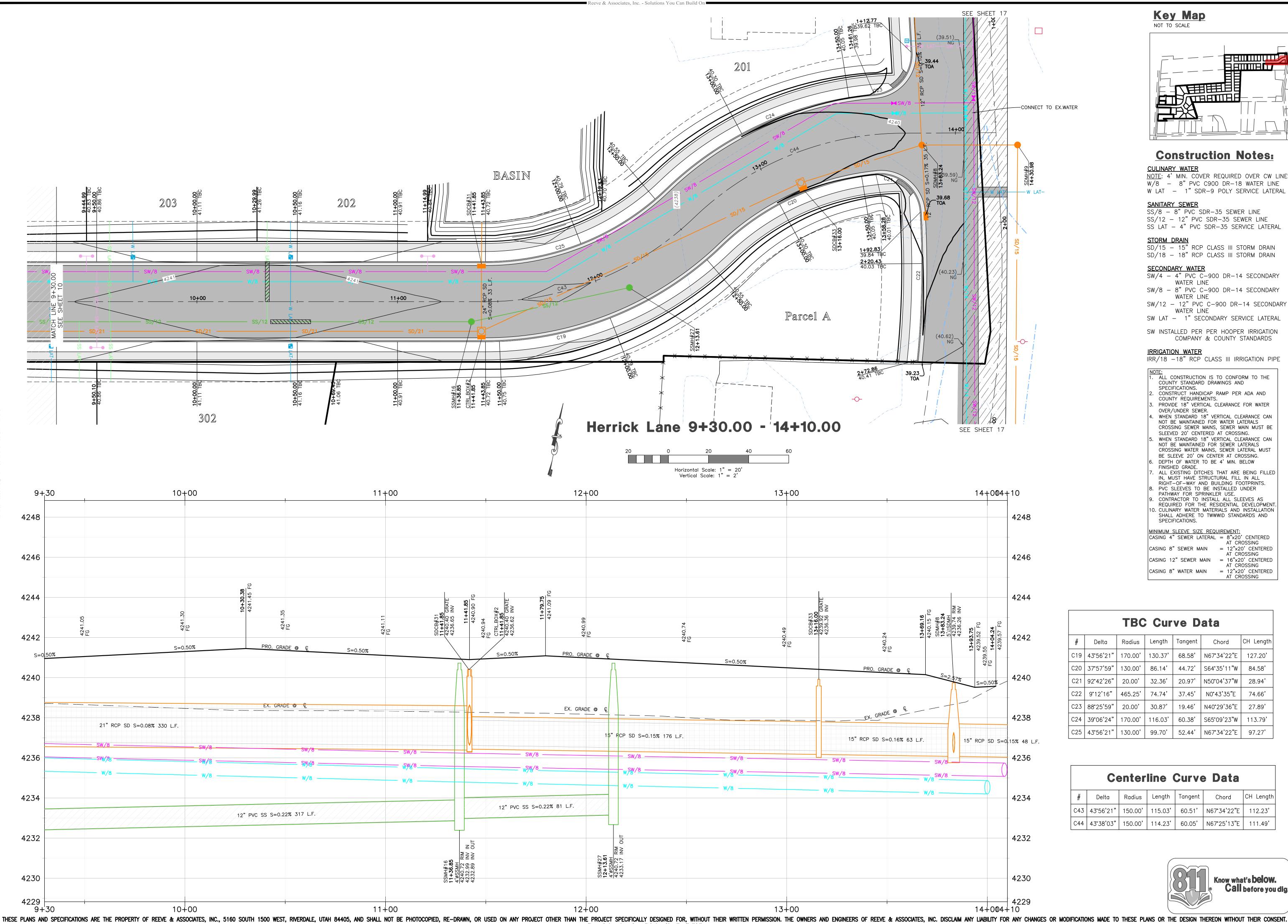
SUBDIVISION

Number: <u>6298-39</u>

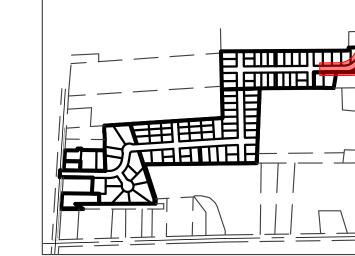
BITTON ESTATES

33 Total Sheets

Know what's **below.**Call before you dig.



Key Map



Construction Notes:

CULINARY WATER
NOTE: 4' MIN. COVER REQUIRED OVER CW LINES W/8 - 8" PVC C900 DR-18 WATER LINE W LAT - 1" SDR-9 POLY SERVICE LATERAL

SANITARY SEWER

SS/8 - 8" PVC SDR-35 SEWER LINE SS/12 - 12" PVC SDR-35 SEWER LINE SS LAT - 4" PVC SDR-35 SERVICE LATERAL

SD/15 - 15" RCP CLASS III STORM DRAIN SD/18 - 18" RCP CLASS III STORM DRAIN

SECONDARY WATER SW/4 - 4" PVC C-900 DR-14 SECONDARY WATER LINE

SW/8 - 8" PVC C-900 DR-14 SECONDARY WATER LINE SW/12 - 12" PVC C-900 DR-14 SECONDARY

SW LAT - 1" SECONDARY SERVICE LATERAL SW INSTALLED PER PER HOOPER IRRIGATION

IRRIGATION WATER

IRR/18 -18" RCP CLASS III IRRIGATION PIPE

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CASING 4" SEWER LATERAL = 8"x20' CENTERED

AT CROSSING

CASING 8" SEWER MAIN = 12"x20' CENTERED

AT CROSSING

AT CROSSING CASING 12" SEWER MAIN = 16"x20' CENTERED AT CROSSING

= 12"x20' CENTERED AT CROSSING

	TBC Curve Data											
#	Delta	Radius	Length	Tangent	Chord	CH Length						
C19	43°56'21"	170.00'	130.37	68.58'	N67°34'22"E	127.20'						
C20	37°57'59"	130.00'	86.14	44.72'	S64°35'11"W	84.58'						
C21	92°42'26"	20.00'	32.36'	20.97	N50°04'37"W	28.94'						
C22	9°12'16"	465.25	74.74	37.45	N0°43'35"E	74.66'						
C23	88°25'59"	20.00'	30.87	19.46	N40°29'36"E	27.89'						
C24	39°06'24"	170.00'	116.03	60.38'	S65°09'23"W	113.79						

Centerline Curve Data											
#	Delta	Radius	Length	Tangent	Chord	CH Leng					
C43	43°56'21"	150.00'	115.03'	60.51	N67°34'22"E	112.23					
C44	43°38'03"	150.00'	114.23	60.05	N67°25'13"E	111.49					



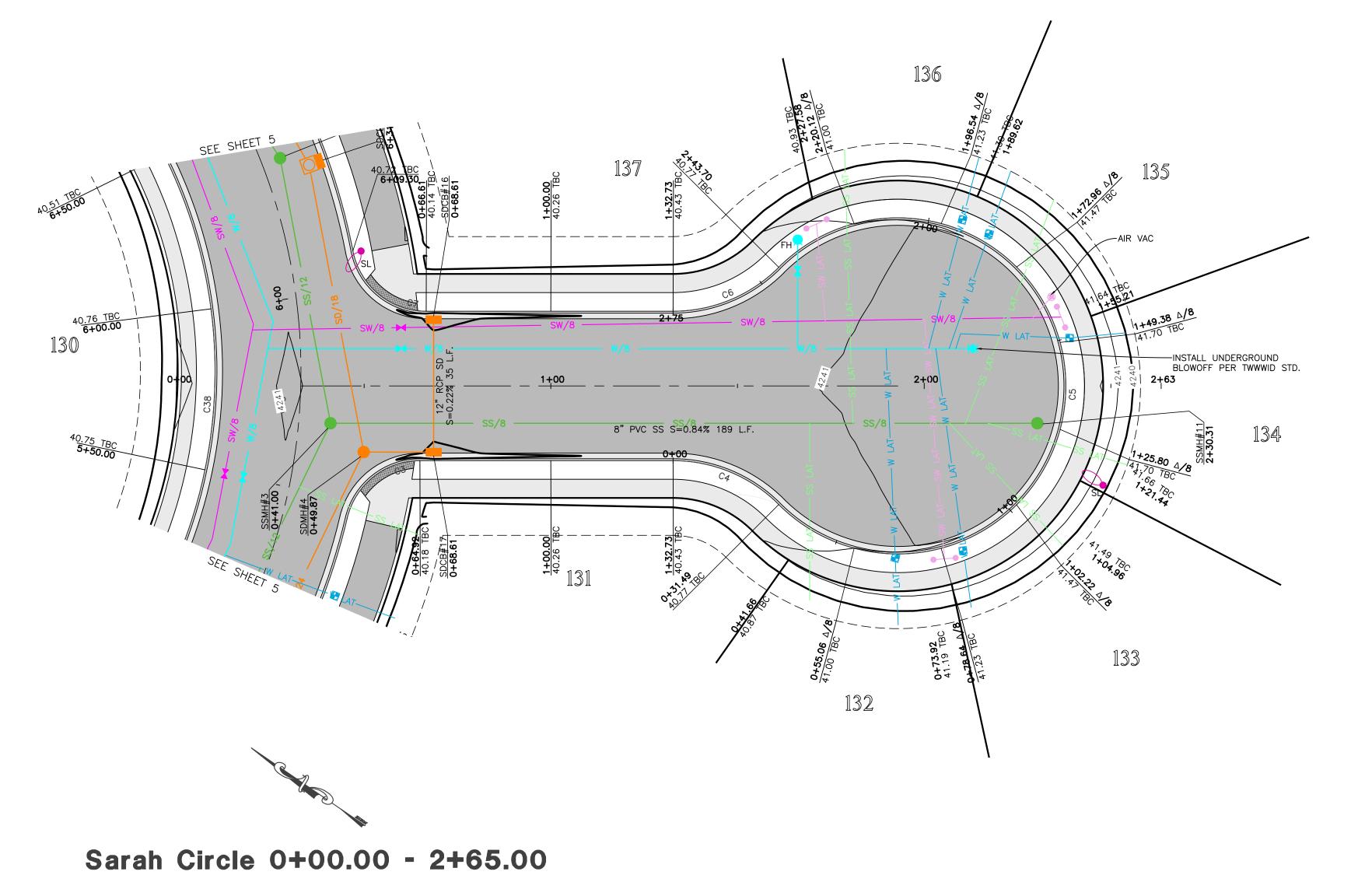
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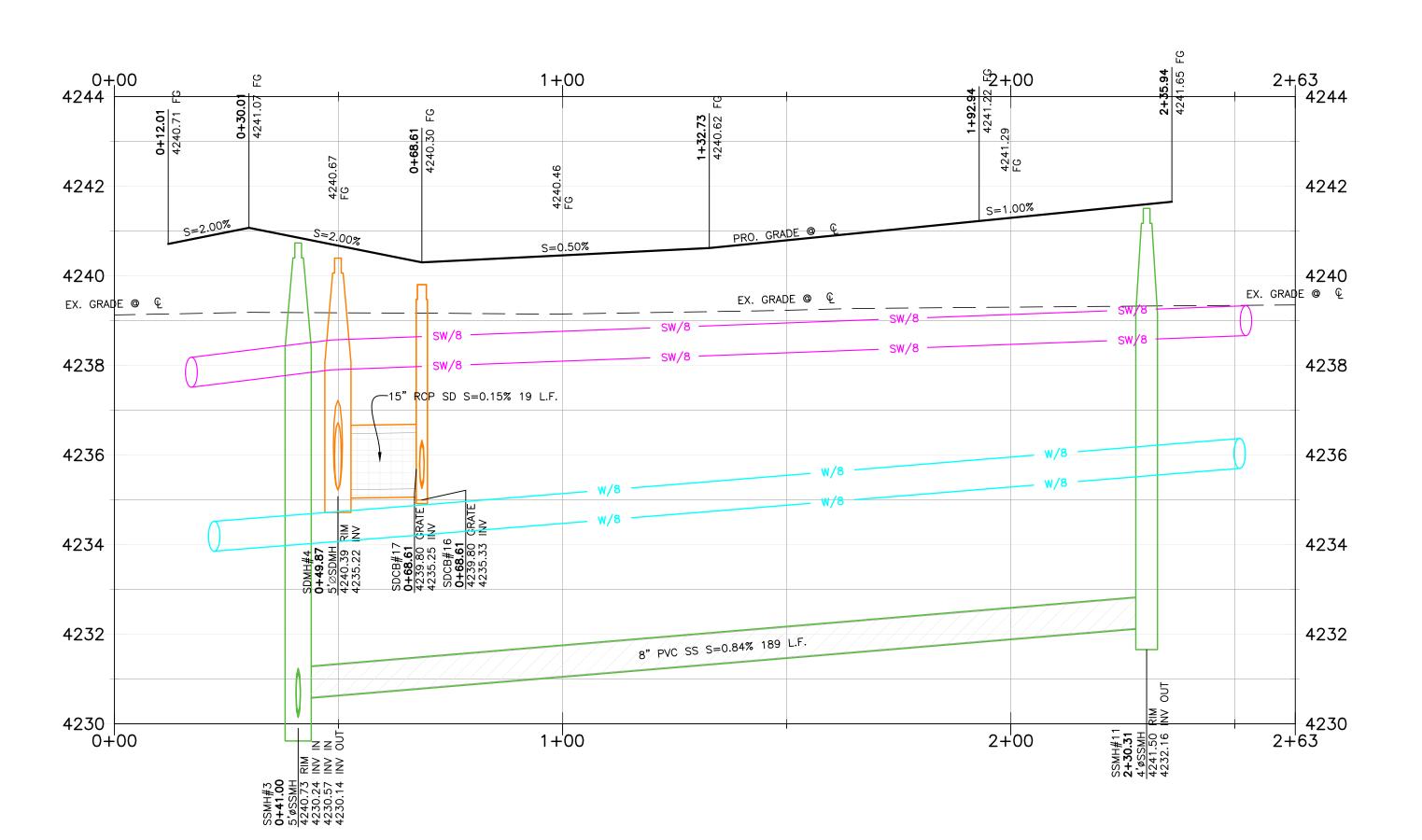
<u>Project Info.</u> KENNETH H. HUNTER, P.E Begin Date:

BITTON ESTATES

SUBDIVISION Number: <u>6298-39</u>



Horizontal Scale: 1" = 20' Vertical Scale: 1" = 2'

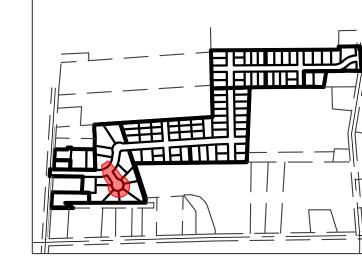


	TBC Curve Data											
#	Delta	Radius	Length	Tangent	Chord	CH Lengt						
C3	76°38'09"	20.00'	26.75	15.81'	N72°39'10"W	24.80'						
C4	45°05'57"	40.00'	31.49'	16.61'	N11°47'07"W	30.68						
C5	270°11'54"	45.00'	212.21	44.84	N55°39'54"E	63.53						
C6	45°05'57"	40.00'	31.49'	16.61'	S56°53'04"E	30.68						
C7	79°03'08"	20.00'	27.59'	16.50'	S5°11'28"W	25.46						
C38	81°29'24"	130.00'	184.89	112.00'	N50°03'04"E	169.70						

	Centerline Curve Data								
#	Delta	Radius	Length	Tangent	Chord	CH Length			
C40	81°29'24"	150.00'	213.34'	129.23'	N50°03'04"E	195.81'			

Key Map

NOT TO SCALE



Construction Notes:

CULINARY WATER
NOTE: 4' MIN. COVER REQUIRED OVER CW LINES W/8 - 8" PVC C900 DR-18 WATER LINE W LAT - 1" SDR-9 POLY SERVICE LATERAL

SANITARY SEWER

SS/8 - 8" PVC SDR-35 SEWER LINE SS/12 - 12" PVC SDR-35 SEWER LINE SS LAT - 4" PVC SDR-35 SERVICE LATERAL

STORM DRAIN

SD/15 - 15" RCP CLASS III STORM DRAIN SD/18 - 18" RCP CLASS III STORM DRAIN

SECONDARY WATER

SW/4 - 4" PVC C-900 DR-14 SECONDARY WATER LINE SW/8 - 8" PVC C-900 DR-14 SECONDARY WATER LINE

SW/12 - 12" PVC C-900 DR-14 SECONDARY WATER LINE SW LAT - 1" SECONDARY SERVICE LATERAL

SW INSTALLED PER PER HOOPER IRRIGATION COMPANY & COUNTY STANDARDS

IRR/18 -18" RCP CLASS III IRRIGATION PIPE

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- DEPTH OF WATER TO BE 4' MIN. BELOW FINISHED GRADE.

 ALL EXISTING DITCHES THAT ARE BEING FILLED IN, MUST HAVE STRUCTURAL FILL IN ALL
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- CONTRACTOR TO INSTALL ALL SLEEVES AS REQUIRED FOR THE RESIDENTIAL DEVELOPMENT. O. CULINARY WATER MATERIALS AND INSTALLATION SHALL ADHERE TO TWWWID STANDARDS AND

MINIMUM SLEEVE SIZE REQUIREMENT:

SPECIFICATIONS.

CASING 4" SEWER LATERAL = 8"x20' CENTERED AT CROSSING CASING 8" SEWER MAIN = 12"x20' CENTERED AT CROSSING CASING 12" SEWER MAIN = 16"x20' CENTERED AT CROSSING = 12"x20' CENTERED

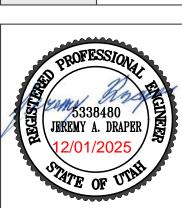




REVISIONS	<u>DESCRIPTION</u> Sewer Design	Ped Crossings	Ped Crossings	Review Comments	Review Comments	
쮼	S	CK	CK	CK	S	
	DATE 05-23-25 CK	05-28-25 CK	09-10-25 CK	10-21-25 CK	12-01-25 CK	

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5338480 JEREMY A. DRAPER 12/01/2025
Project Info.

ı	<u>Project into.</u>
ı	Designer:
	Designer: <u>KENNETH H. HUNTE</u> F
	Drafter:
ı	C. KINGSLEY

|Begin Date: BITTON ESTATES

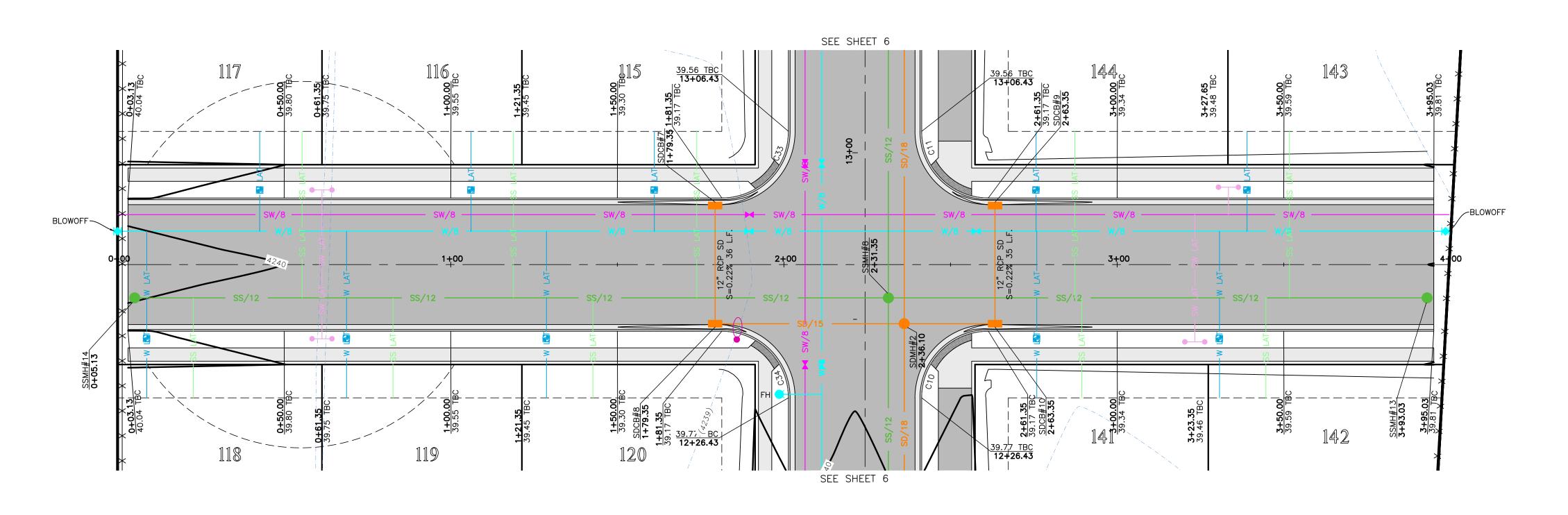
Number: <u>6298-39</u>

SUBDIVISION

33 Total Sheets

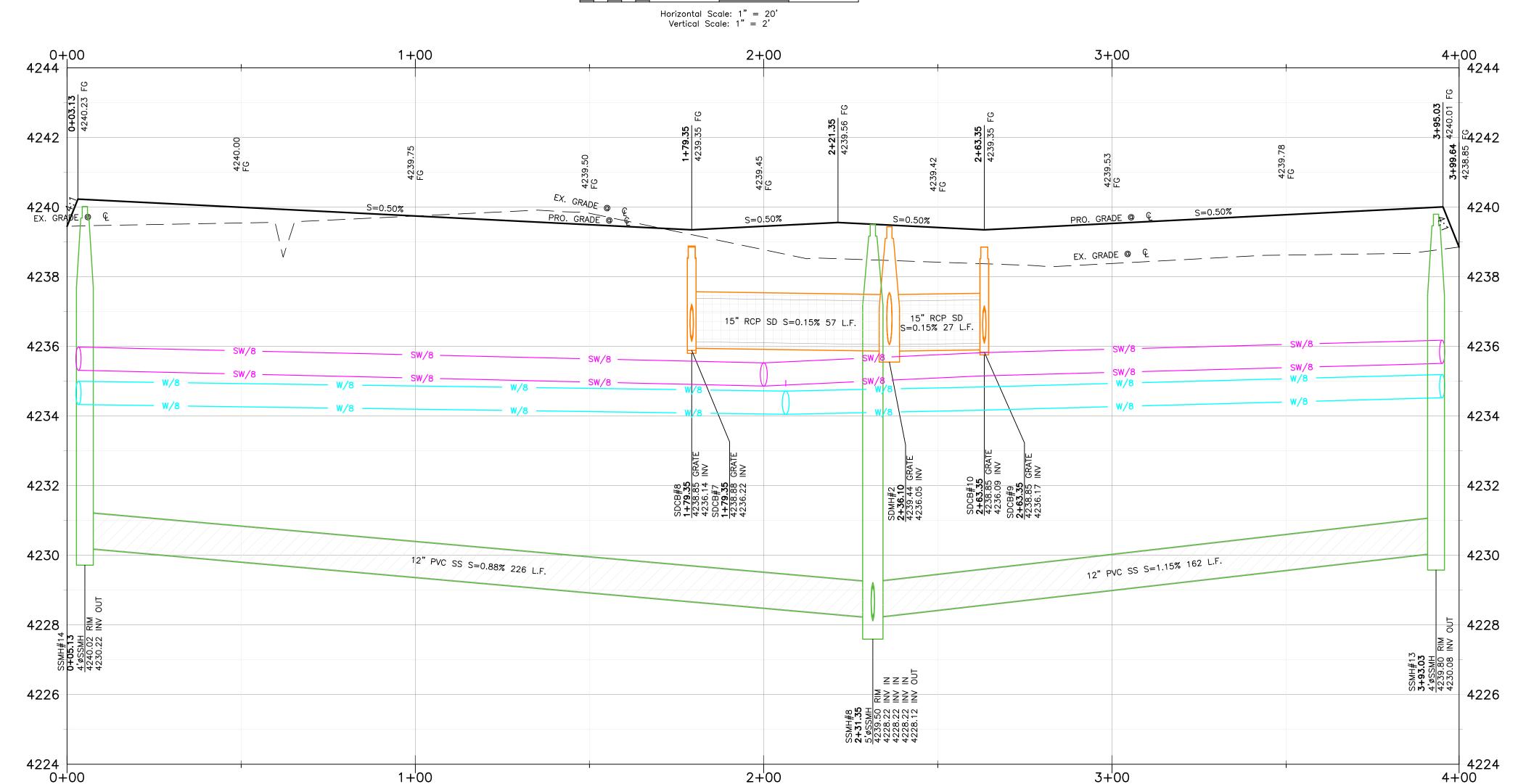
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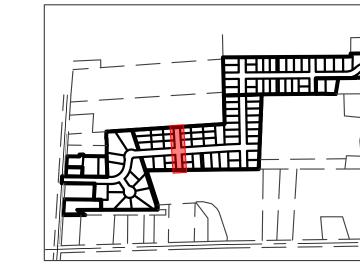
Rebecca Road 0+00.00 - 4+00.00

TBC Curve Data										
#	Delta	Radius	Length	Tangent	Chord	CH Length				
C10	90°00'00"	20.00'	31.42'	20.00'	N48°42'06"W	28.28'				
C11	90°00'00"	20.00'	31.42'	20.00'	S41°17'54"W	28.28'				
C33	90°00'00"	20.00'	31.42'	20.00'	S48°42'06"E	28.28'				
C34	90°00'00"	20.00'	31.42'	20.00'	N41°17'54"E	28.28'				



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Construction Notes:

CULINARY WATER

NOTE: 4' MIN. COVER REQUIRED OVER CW LINES W/8 - 8" PVC C900 DR-18 WATER LINE W LAT - 1" SDR-9 POLY SERVICE LATERAL

SANITARY SEWER

SS/8 - 8" PVC SDR-35 SEWER LINE SS/12 - 12" PVC SDR-35 SEWER LINE SS LAT - 4" PVC SDR-35 SERVICE LATERAL

STORM DRAIN

SD/15 - 15" RCP CLASS III STORM DRAIN SD/18 - 18" RCP CLASS III STORM DRAIN

SECONDARY WATER

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SW/12 - 12" PVC C-900 DR-14 SECONDARY WATER LINE SW LAT - 1" SECONDARY SERVICE LATERAL

SW INSTALLED PER PER HOOPER IRRIGATION COMPANY & COUNTY STANDARDS

IRR/18 -18" RCP CLASS III IRRIGATION PIPE

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MINIMUM SLEEVE SIZE REQUIREMENT:

CASING 4" SEWER LATERAL = 8"x20' CENTERED

AT CROSSING

CASING 8" SEWER MAIN = 12"x20' CENTERED AT CROSSING CASING 12" SEWER MAIN = 16"x20' CENTERED AT CROSSING = 12"x20' CENTERED





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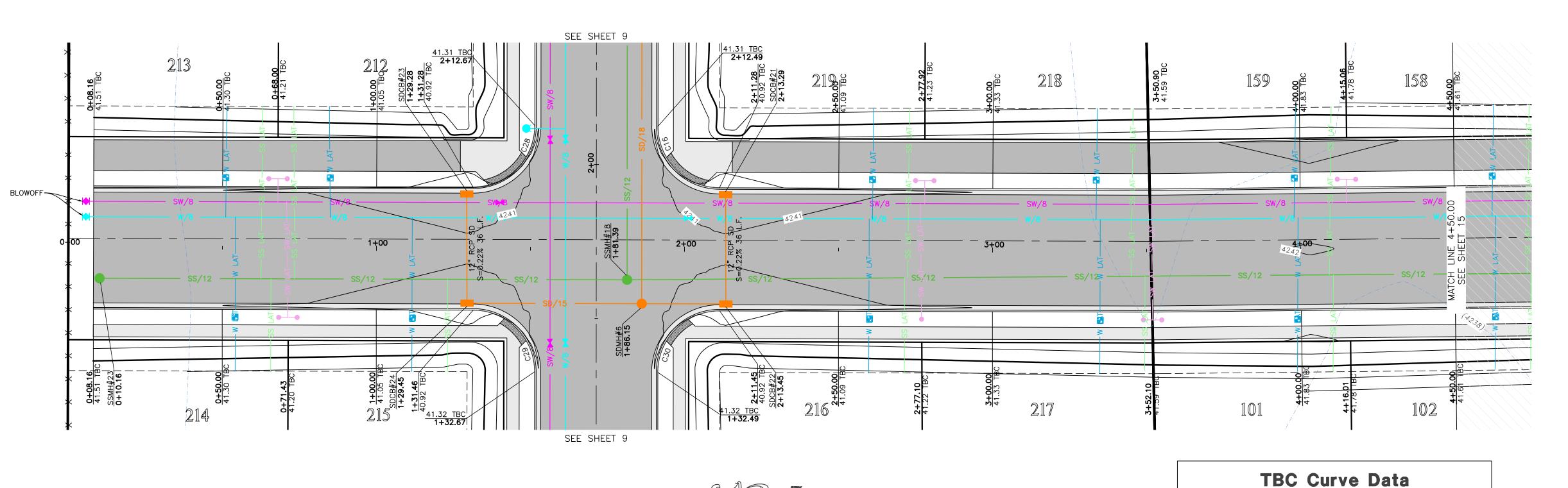
Project Info.
Designer: KENNETH H. HUNTER,
Drafter: C. KINGSLEY
Begin Date: APRIL 2025
Name: BITTON ESTATES

SUBDIVISION Number: <u>6298–39</u>

13

33 Total Sheets

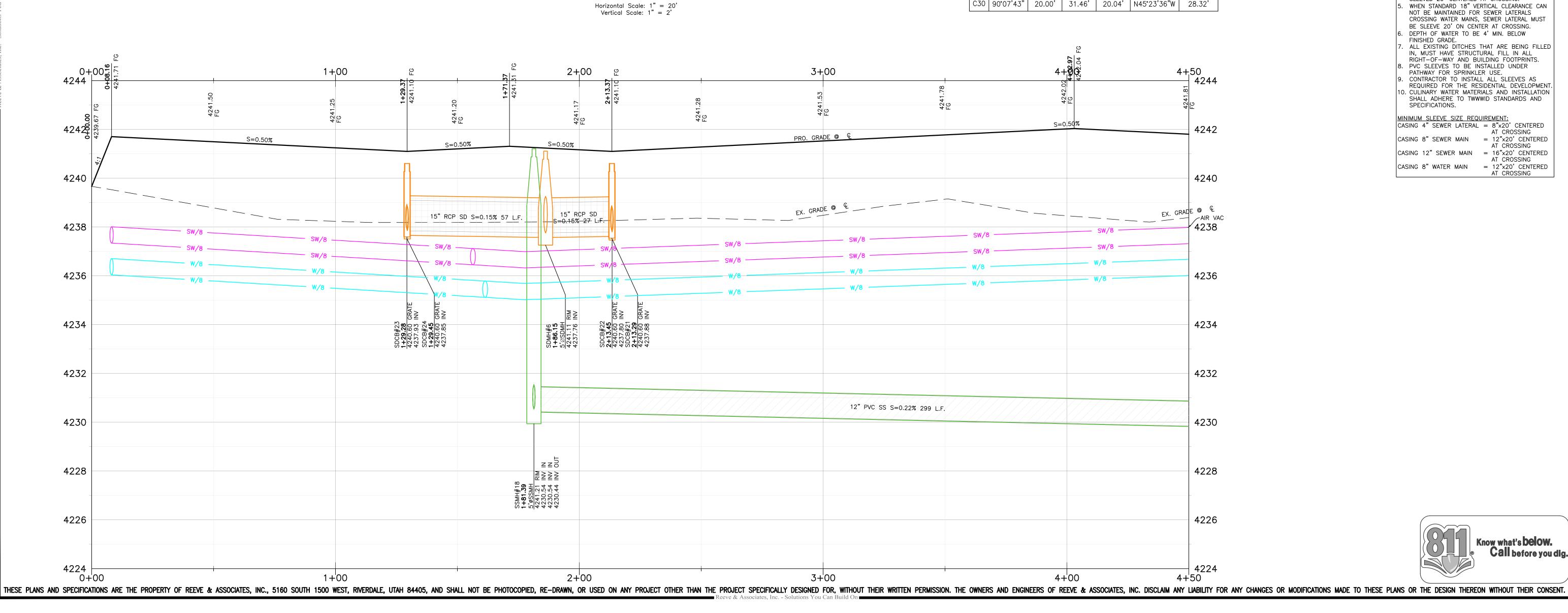
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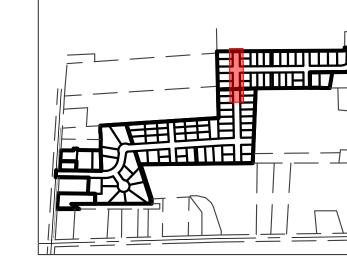
Dee Street 0+00.00 - 4+50.00

Reeve & Associates, Inc. - Solutions You Can Build On

TBC Curve Data										
#	Delta	Radius	Length	Tangent	Chord	CH Length				
C16	89°52'17"	20.00'	31.37'	19.96'	S44°36'24"W	28.25'				
C28	90°07'43"	20.00'	31.46	20.04	S45°23'36"E	28.32'				
C29	89°52'17"	20.00'	31.37'	19.96'	N44°36'24"E	28.25'				
C30	90°07'43"	20.00'	31.46	20.04	N45°23'36"W	28.32'				







Construction Notes:

CULINARY WATER
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SANITARY SEWER

SS/8 - 8" PVC SDR-35 SEWER LINE SS/12 - 12" PVC SDR-35 SEWER LINE SS LAT - 4" PVC SDR-35 SERVICE LATERAL

STORM DRAIN

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SW/8 - 8" PVC C-900 DR-14 SECONDARY WATER LINE

SW INSTALLED PER PER HOOPER IRRIGATION

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SPECIFICATIONS.

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W LAT - 1" SDR-9 POLY SERVICE LATERAL

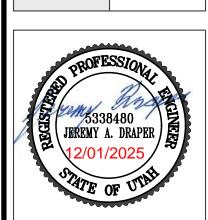
SECONDARY WATER SW/4 - 4" PVC C-900 DR-14 SECONDARY WATER LINE

SW/12 - 12" PVC C-900 DR-14 SECONDARY WATER LINE SW LAT - 1" SECONDARY SERVICE LATERAL

COMPANY & COUNTY STANDARDS

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Project Info. KENNETH H. HUNTER, P.E Drafter:

C. KINGSLEY Begin Date:

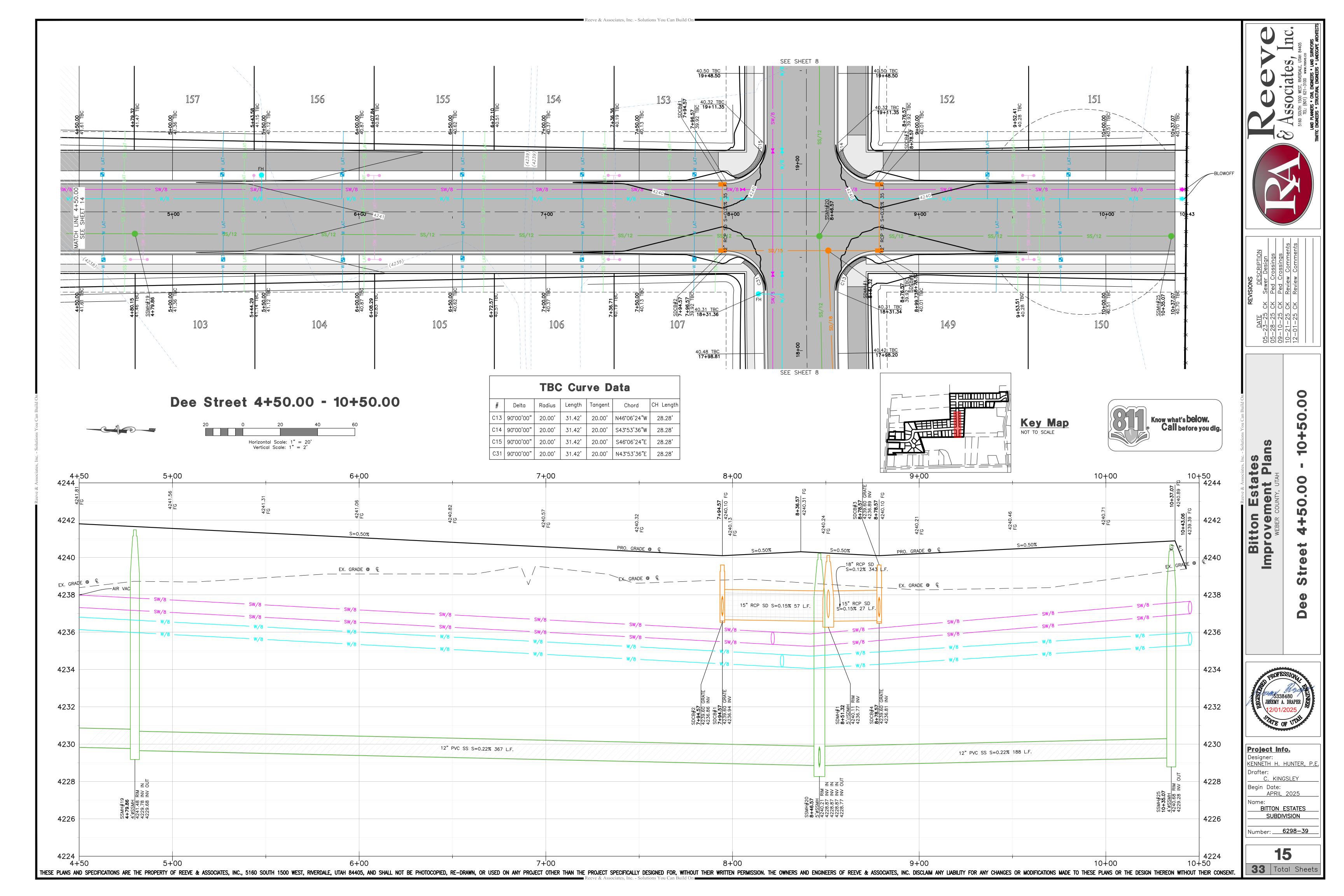
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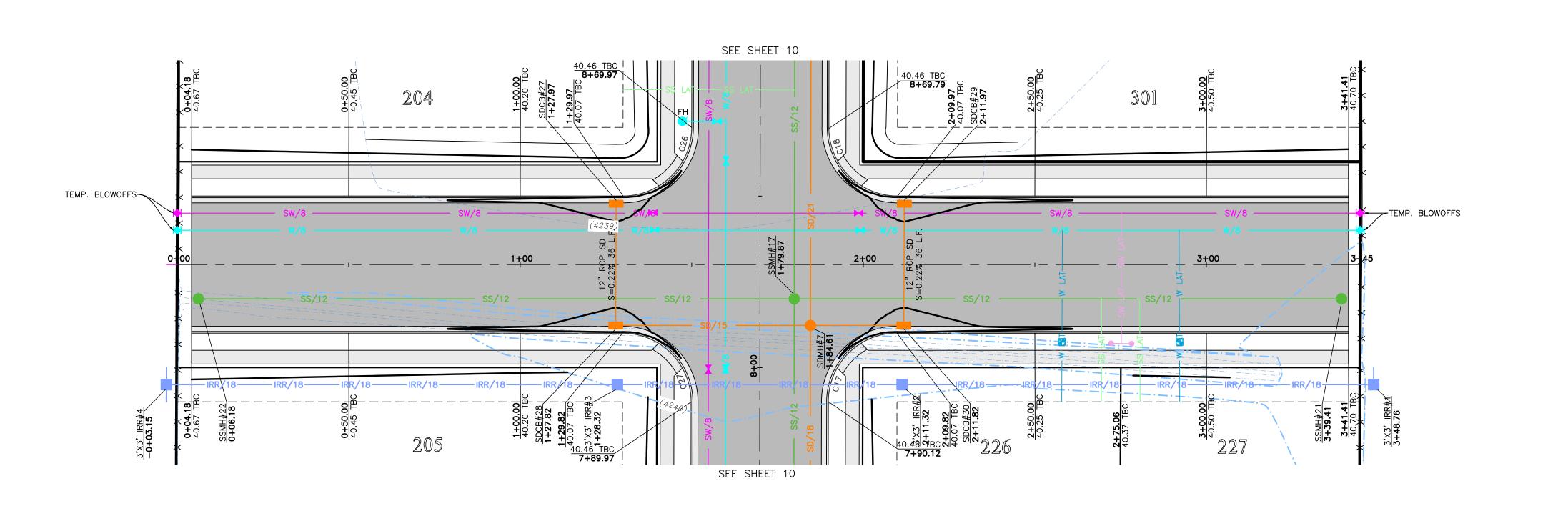
BITTON ESTATES

Number: <u>6298-39</u>

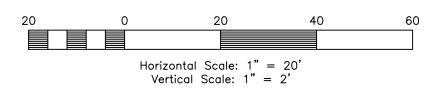
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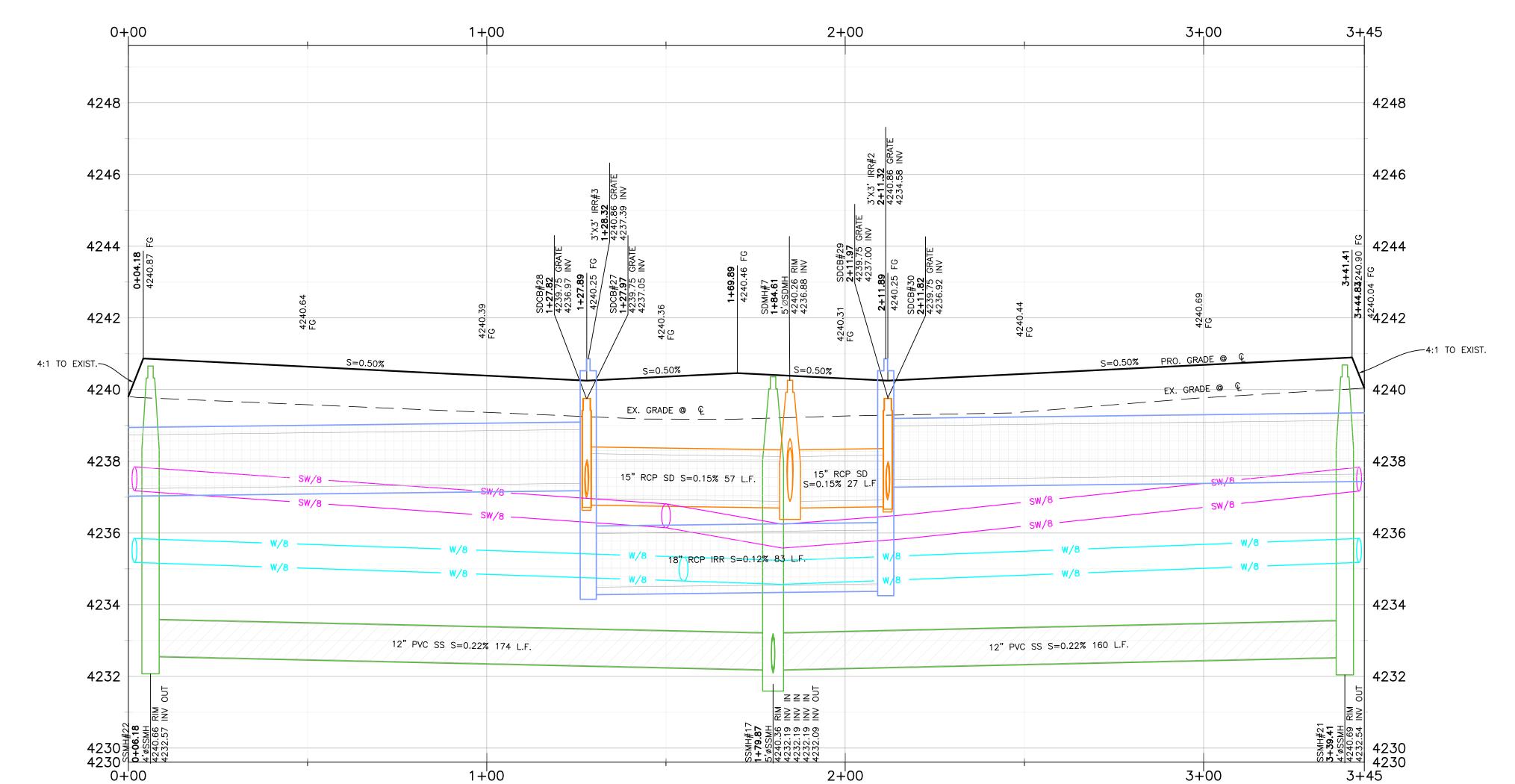
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Leroy Road 0+00.00 - 3+45.00





Key Map NOT TO SCALE



Construction Notes:

CULINARY WATER

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SW INSTALLED PER PER HOOPER IRRIGATION COMPANY & COUNTY STANDARDS

IRRIGATION WATER

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 PATHWAY FOR SPRINKLER USE.
 CONTRACTOR TO INSTALL ALL SLEEVES AS
- REQUIRED FOR THE RESIDENTIAL DEVELOPMENT. O. CULINARY WATER MATERIALS AND INSTALLATION SHALL ADHERE TO TWWWID STANDARDS AND SPECIFICATIONS.

MINIMUM SLEEVE SIZE REQUIREMENT:

CASING 4" SEWER LATERAL = 8"x20' CENTERED

AT CROSSING = 12"x20' CENTERED AT CROSSING CASING 12" SEWER MAIN = 16"x20' CENTERED AT CROSSING = 12"x20' CENTERED

TBC Curve Data										
#	Delta	Radius	Length	Tangent	Chord	CH Length				
C17	89°53'24"	20.00'	31.38'	19.96'	N45°30'45"W	28.26'				
C18	90°06'36"	20.00'	31.45'	20.04	S44°29'15"W	28.31'				
C26	89°53'24"	20.00'	31.38'	19.96'	S45°30'45"E	28.26'				
C27	90°06'36"	20.00'	31.45'	20.04	N44°29'15"E	28.31'				

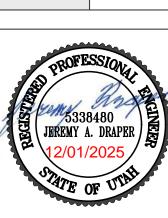


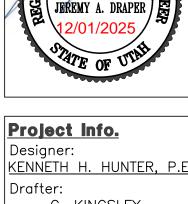


DESCRIPTION	Sewer Design	Ped Crossings	Ped Crossings	Review Comments	Review Comments	
	C Y	X	CK	CK	CK	
DATE	05-23-25	05-28-25	09-10-25	10-21-25 CK	12-01-25 CK	

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KENNETH H. HUNTER, P.E Drafter: C. KINGSLEY Begin Date: APRIL 2025 Name: BITTON ESTATES

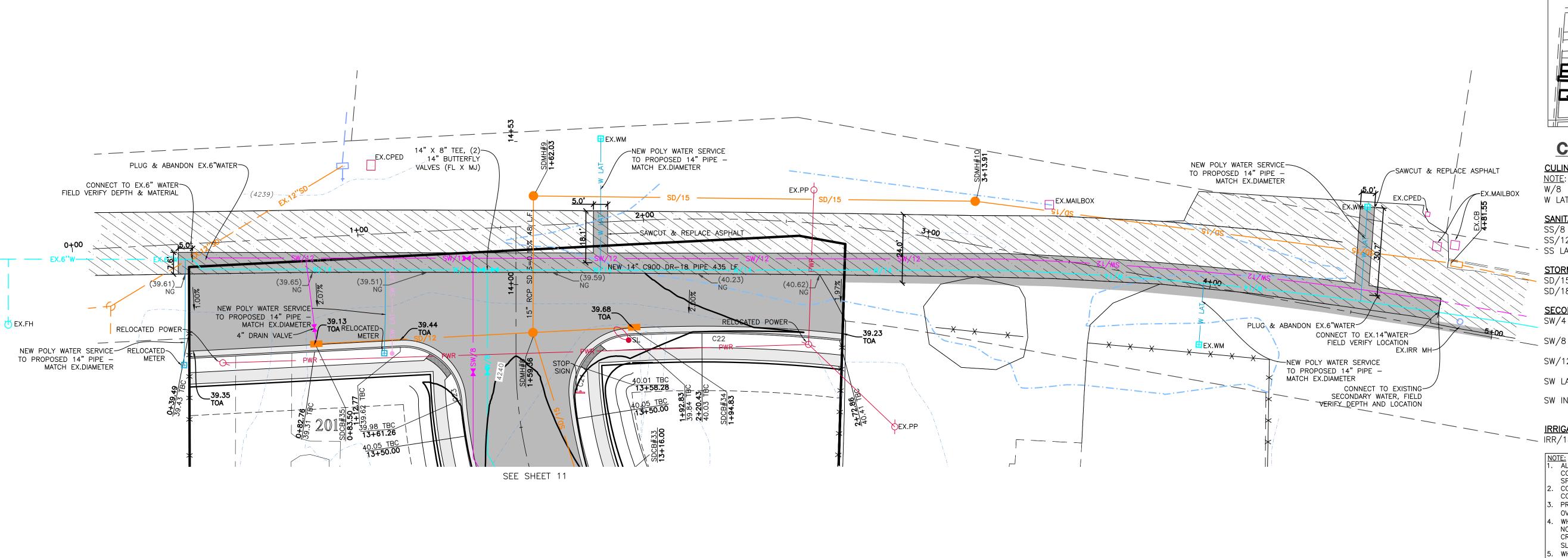
Number: <u>6298-39</u>

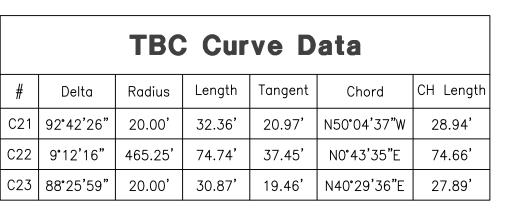
SUBDIVISION

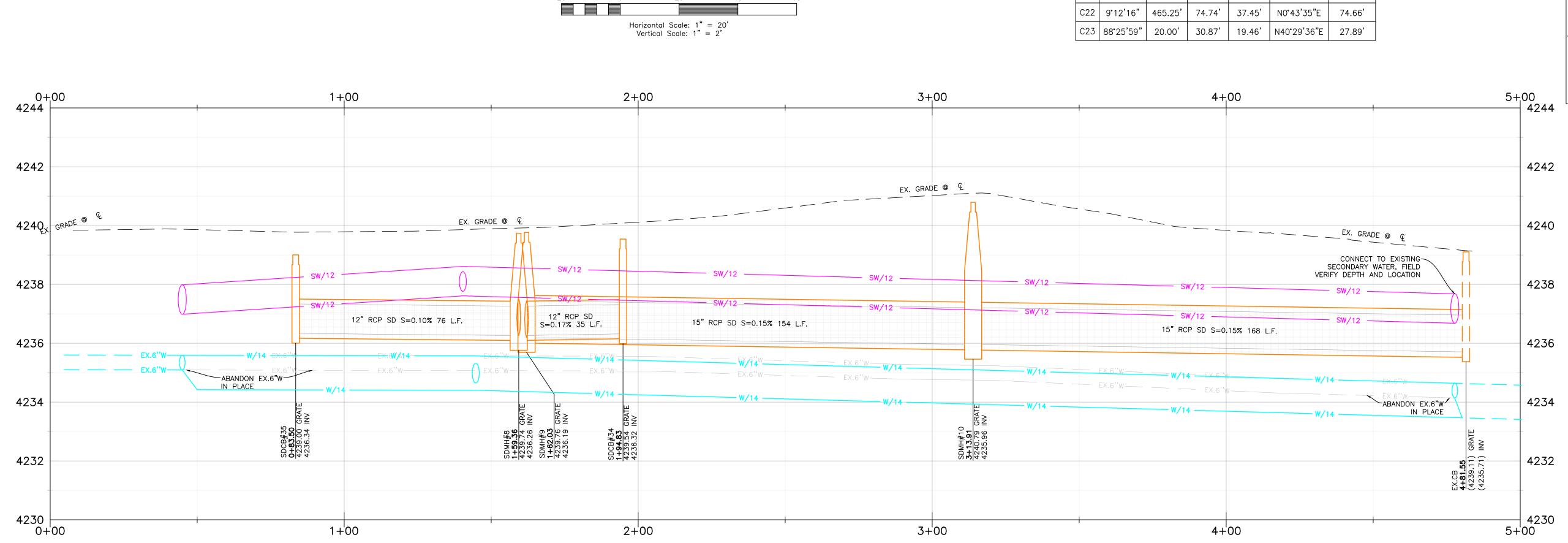
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3600 West Street 0+00.00 - 5+00.00



Construction Notes:

CULINARY WATER

NOTE: 4' MIN. COVER REQUIRED OVER CW LINES W/8 - 8" PVC C900 DR-18 WATER LINE W LAT - 1" SDR-9 POLY SERVICE LATERAL

SANITARY SEWER

SS/8 - 8" PVC SDR-35 SEWER LINE SS/12 - 12" PVC SDR-35 SEWER LINE SS LAT - 4" PVC SDR-35 SERVICE LATERAL

STORM DRAIN

SD/15 - 15" RCP CLASS III STORM DRAIN SD/18 - 18" RCP CLASS III STORM DRAIN

SECONDARY WATER SW/4 - 4" PVC C-900 DR-14 SECONDARY

WATER LINE SW/8 - 8" PVC C-900 DR-14 SECONDARY WATER LINE SW/12 - 12" PVC C-900 DR-14 SECONDARY

WATER LINE SW LAT - 1" SECONDARY SERVICE LATERAL

SW INSTALLED PER PER HOOPER IRRIGATION COMPANY & COUNTY STANDARDS

IRR/18 -18" RCP CLASS III IRRIGATION PIPE

ALL CONSTRUCTION IS TO CONFORM TO THE COUNTY STANDARD DRAWINGS AND

- CONSTRUCT HANDICAP RAMP PER ADA AND COUNTY REQUIREMENTS.
- PROVIDE 18" VERTICAL CLEARANCE FOR WATER OVER/UNDER SEWER.
- WHEN STANDARD 18" VERTICAL CLEARANCE CAN NOT BE MAINTAINED FOR WATER LATERALS
- CROSSING SEWER MAINS, SEWER MAIN MUST BE SLEEVED 20' CENTERED AT CROSSING.
- WHEN STANDARD 18" VERTICAL CLEARANCE CAN NOT BE MAINTAINED FOR SEWER LATERALS CROSSING WATER MAINS, SEWER LATERAL MUST
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 PVC SLEEVES TO BE INSTALLED UNDER
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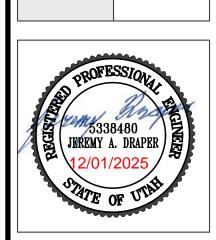
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AT CROSSING

CASING 8" SEWER MAIN = 12"x20' CENTERED AT CROSSING CASING 12" SEWER MAIN = 16"x20' CENTERED AT CROSSING = 12"x20' CENTERED AT CROSSING



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Project Info.

KENNETH H. HUNTER, P.E Drafter: C. KINGSLEY

Begin Date: APRIL 2025 BITTON ESTATES

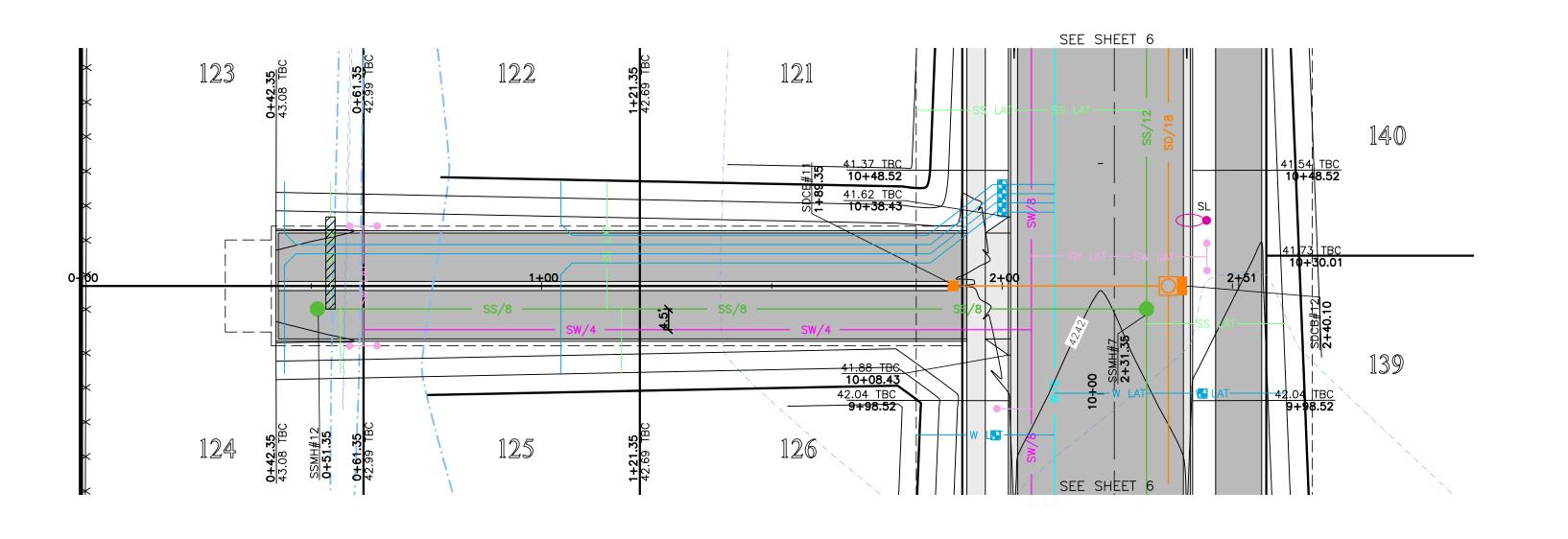
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SUBDIVISION

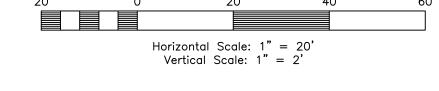
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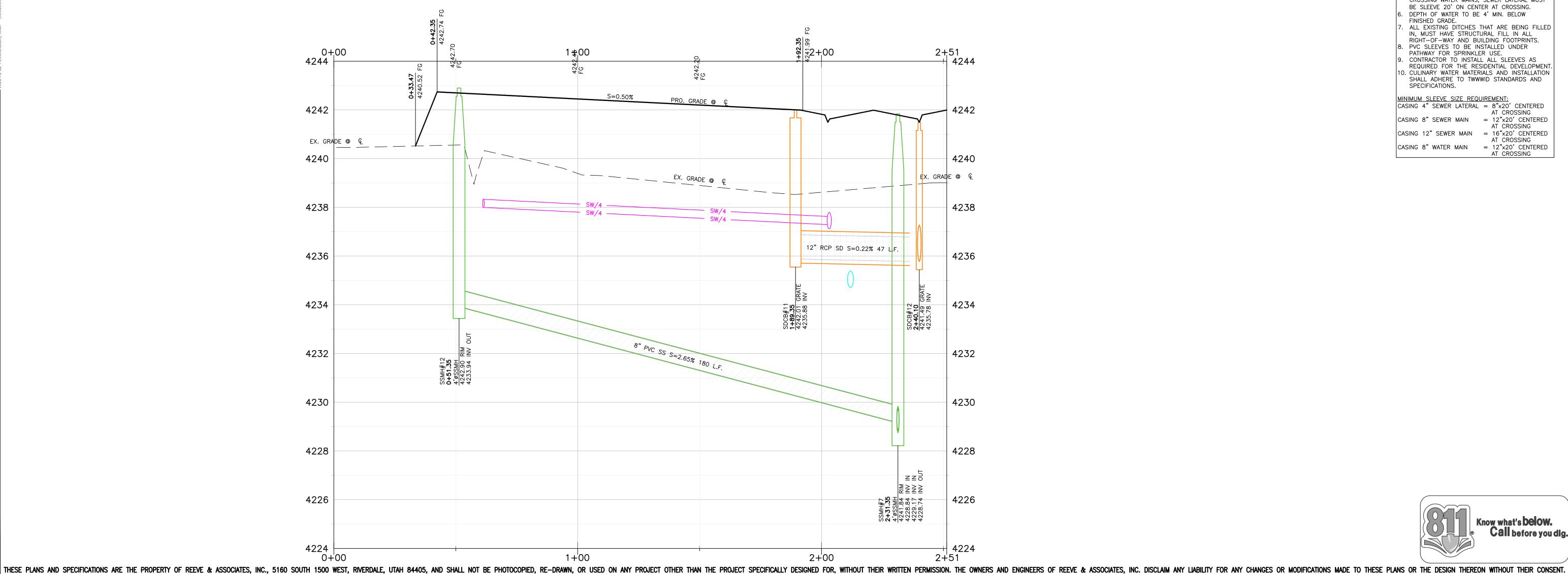
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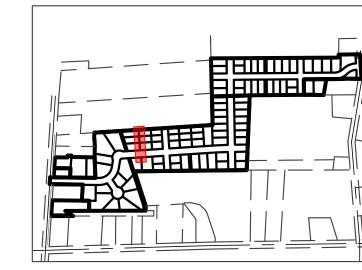
West 6 Pack 0+00.00 - 2+50.00





Key Map

NOT TO SCALE



Construction Notes:

CULINARY WATER

NOTE: 4' MIN. COVER REQUIRED OVER CW LINES W/8 - 8" PVC C900 DR-18 WATER LINE W LAT - 1" SDR-9 POLY SERVICE LATERAL

SS/8 - 8" PVC SDR-35 SEWER LINE SS/12 - 12" PVC SDR-35 SEWER LINE SS LAT - 4" PVC SDR-35 SERVICE LATERAL

STORM DRAIN

SD/15 - 15" RCP CLASS III STORM DRAIN

SECONDARY WATER

SW/4 - 4" PVC C-900 DR-14 SECONDARY WATER LINE SW/8 - 8" PVC C-900 DR-14 SECONDARY

SW/12 - 12" PVC C-900 DR-14 SECONDARY WATER LINE SW LAT - 1" SECONDARY SERVICE LATERAL

SW INSTALLED PER PER HOOPER IRRIGATION COMPANY & COUNTY STANDARDS

ALL CONSTRUCTION IS TO CONFORM TO THE COUNTY STANDARD DRAWINGS AND

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- SLEEVED 20' CENTERED AT CROSSING.
- NOT BE MAINTAINED FOR SEWER LATERALS CROSSING WATER MAINS, SEWER LATERAL MUST
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MINIMUM SLEEVE SIZE REQUIREMENT:

CASING 4" SEWER LATERAL = 8"x20' CENTERED

AT CROSSING AT CROSSING AT CROSSING

SANITARY SEWER

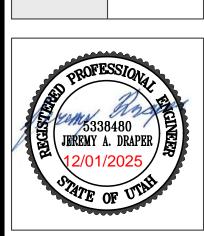
SD/18 - 18" RCP CLASS III STORM DRAIN

WATER LINE

IRR/18 -18" RCP CLASS III IRRIGATION PIPE

- WHEN STANDARD 18" VERTICAL CLEARANCE CAN
- NOT BE MAINTAINED FOR WATER LATERALS CROSSING SEWER MAINS, SEWER MAIN MUST BE WHEN STANDARD 18" VERTICAL CLEARANCE CAN
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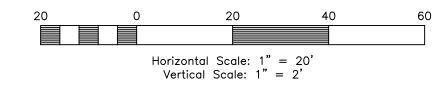
Project Info.
Designer:
KENNETH H. HUNTER,
Drafter:
C. KINGSLEY
Begin Date:

SUBDIVISION Number: <u>6298-39</u>

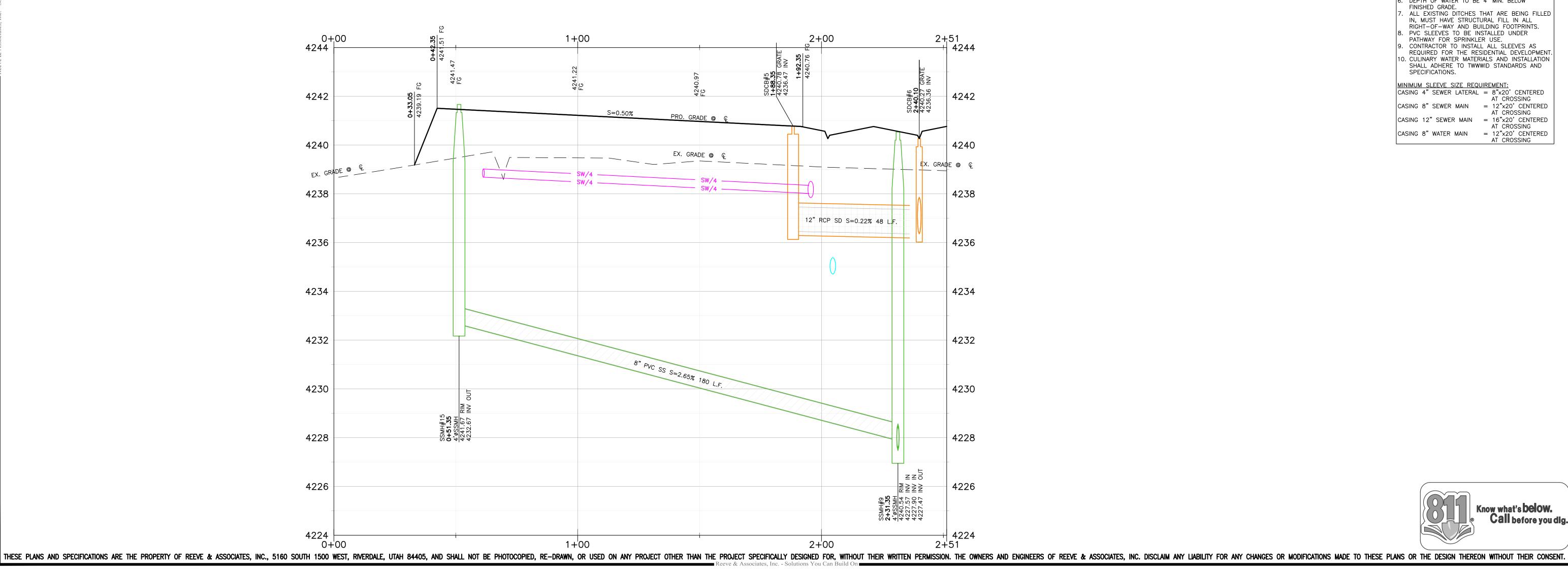
BITTON ESTATES

33 Total Sheets

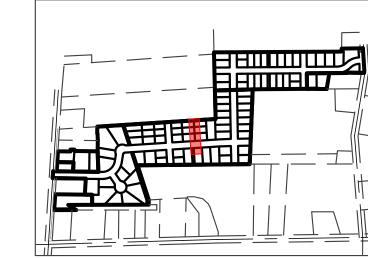
Know what's **below.**Call before you dig.



East 6 Pack 0+00.00 - 2+50.00



Key Map NOT TO SCALE



Construction Notes:

CULINARY WATER
NOTE: 4' MIN. COVER REQUIRED OVER CW LINES W/8 - 8" PVC C900 DR-18 WATER LINE W LAT - 1" SDR-9 POLY SERVICE LATERAL

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SW/12 - 12" PVC C-900 DR-14 SECONDARY WATER LINE SW LAT - 1" SECONDARY SERVICE LATERAL

SW INSTALLED PER PER HOOPER IRRIGATION COMPANY & COUNTY STANDARDS

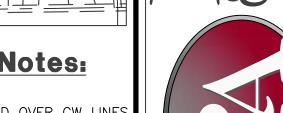
IRR/18 -18" RCP CLASS III IRRIGATION PIPE

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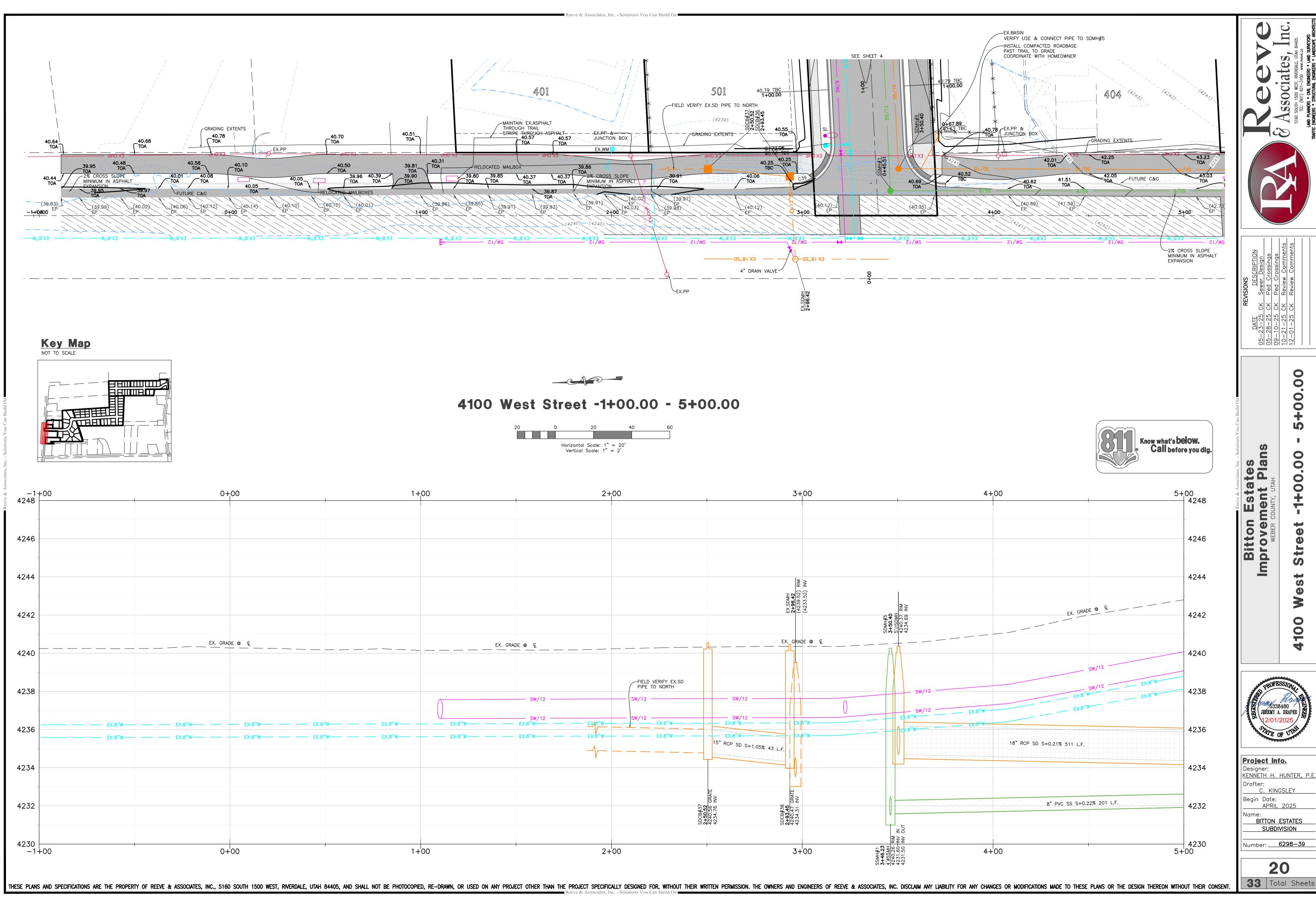


<u>Proje</u>	ct Info.					
Design	ier:					
	KENNETH H. HUNTER,					
Drafte	r:					
(C. KINGSLEY					
Begin	Date:					

SUBDIVISION Number: <u>6298-39</u>

BITTON ESTATES

Know what's **below.**Call before you dig. **33** Total Sheets

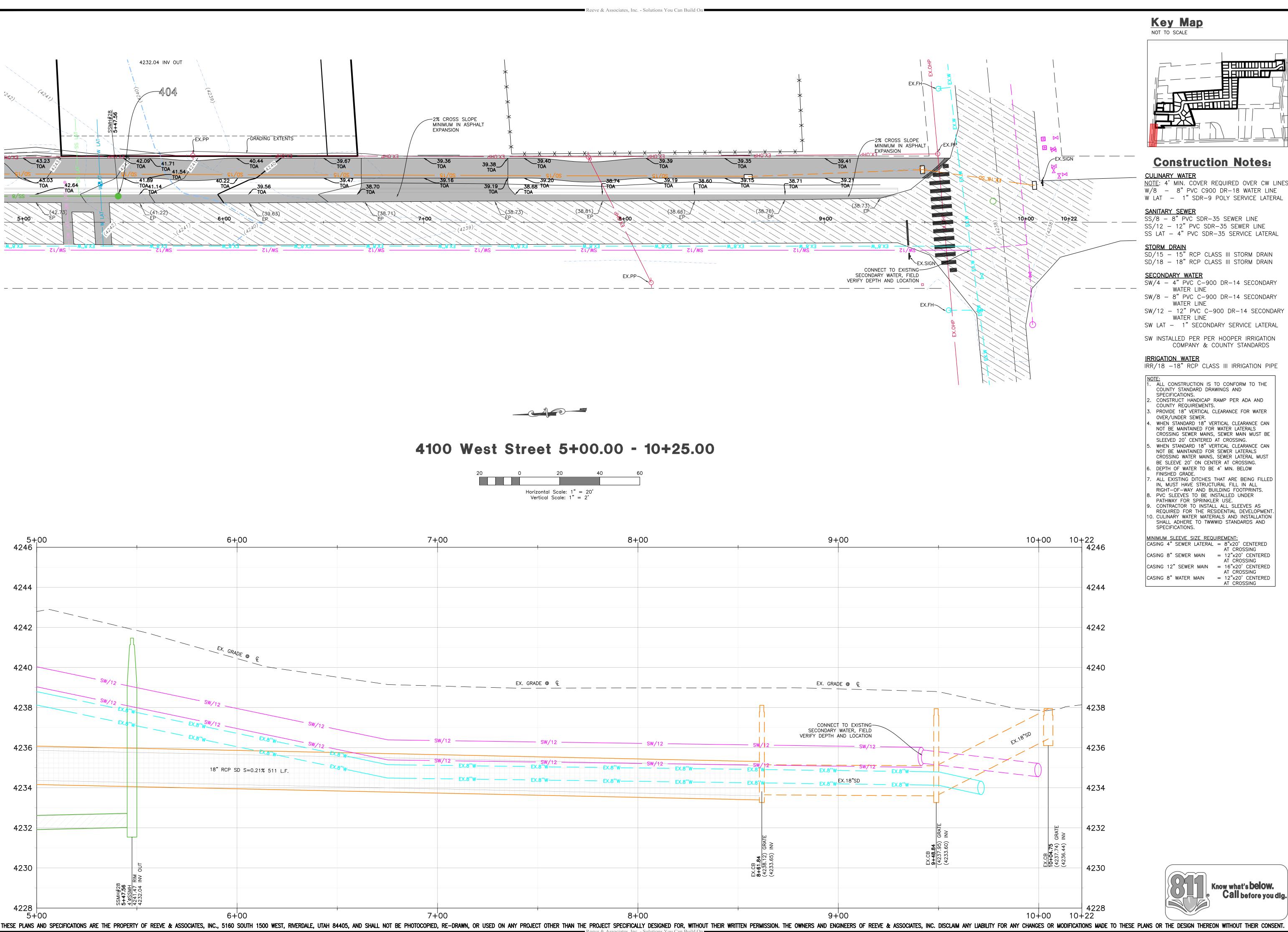


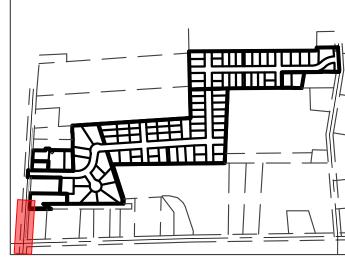




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Project Info. Designer: <u>KENNETH H. HUNTER, P.E</u> C. KINGSLEY Begin Date:
APRIL 2025 BITTON ESTATES SUBDIVISION





Construction Notes:

NOTE: 4' MIN. COVER REQUIRED OVER CW LINE W/8 - 8" PVC C900 DR-18 WATER LINE W LAT - 1" SDR-9 POLY SERVICE LATERAL

SS/12 - 12" PVC SDR-35 SEWER LINE SS LAT - 4" PVC SDR-35 SERVICE LATERAL

SD/15 - 15" RCP CLASS III STORM DRAIN SD/18 - 18" RCP CLASS III STORM DRAIN

SW/8 - 8" PVC C-900 DR-14 SECONDARY SW/12 - 12" PVC C-900 DR-14 SECONDARY

SW LAT - 1" SECONDARY SERVICE LATERAL SW INSTALLED PER PER HOOPER IRRIGATION

COMPANY & COUNTY STANDARDS

IRR/18 -18" RCP CLASS III IRRIGATION PIPE

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CASING 8" SEWER MAIN = 12"x20' CENTERED AT CROSSING CASING 12" SEWER MAIN = $16" \times 20$ ' CENTERED AT CROSSING = 12"x20' CENTERED

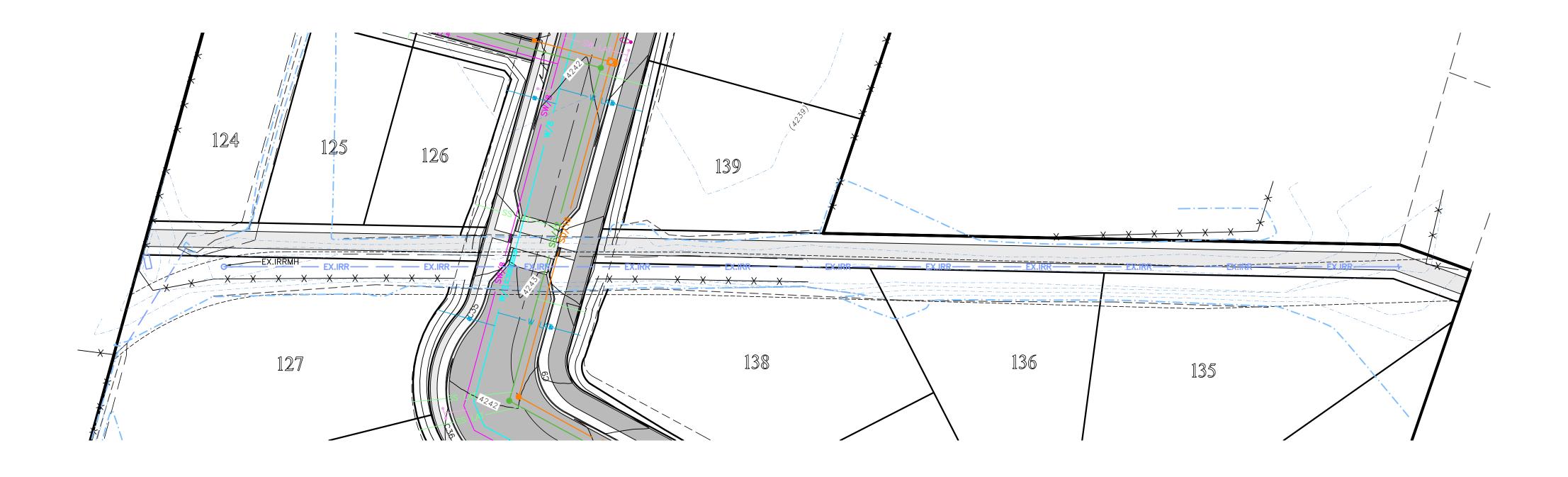


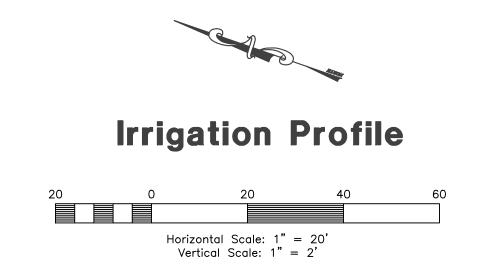
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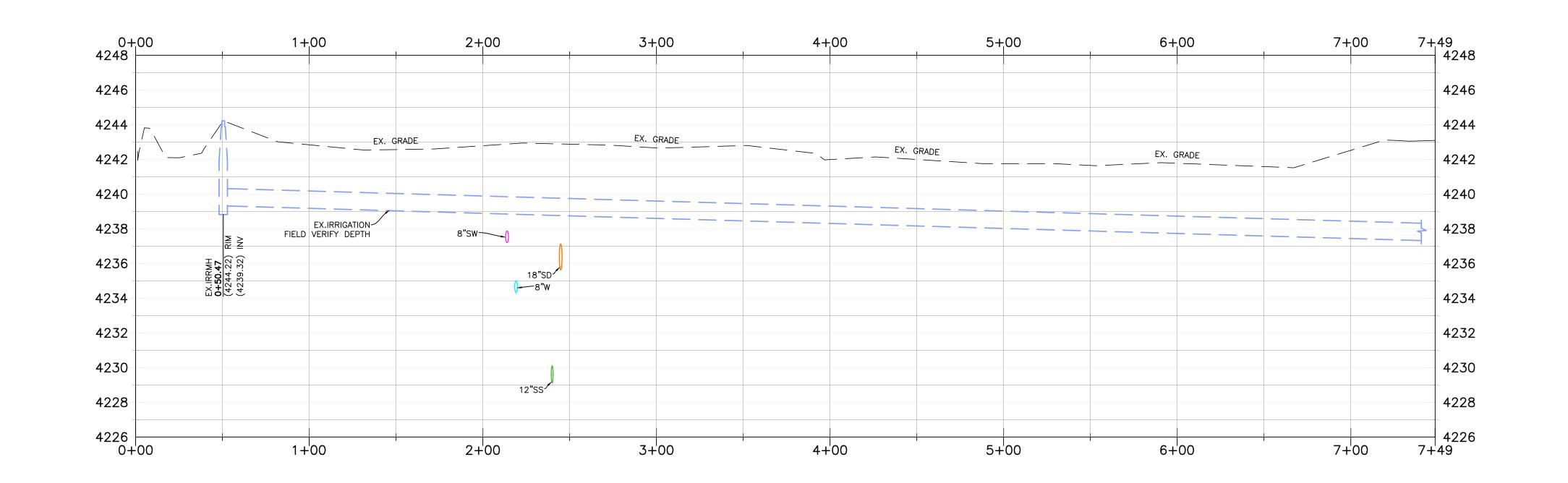
Project Info. KENNETH H. HUNTER, P.E Drafter: C. KINGSLEY Begin Date:

> BITTON ESTATES SUBDIVISION

Number: <u>6298-39</u>

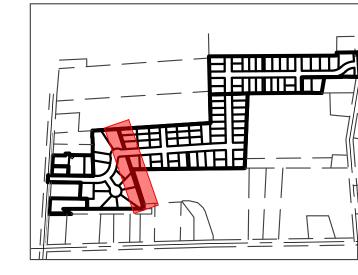






Key Map

NOT TO SCALE



Construction Notes:

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SANITARY SEWER

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STORM DRAIN

SD/15 - 15" RCP CLASS III STORM DRAIN SD/18 - 18" RCP CLASS III STORM DRAIN

SECONDARY WATER

SW/4 - 4" PVC C-900 DR-14 SECONDARY WATER LINE SW/8 - 8" PVC C-900 DR-14 SECONDARY WATER LINE SW/12 - 12" PVC C-900 DR-14 SECONDARY WATER LINE

SW INSTALLED PER PER HOOPER IRRIGATION COMPANY & COUNTY STANDARDS

SW LAT - 1" SECONDARY SERVICE LATERAL

IRRIGATION WATER

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Project Info. KENNETH H. HUNTER, P.E Drafter: C. KINGSLEY

Begin Date:

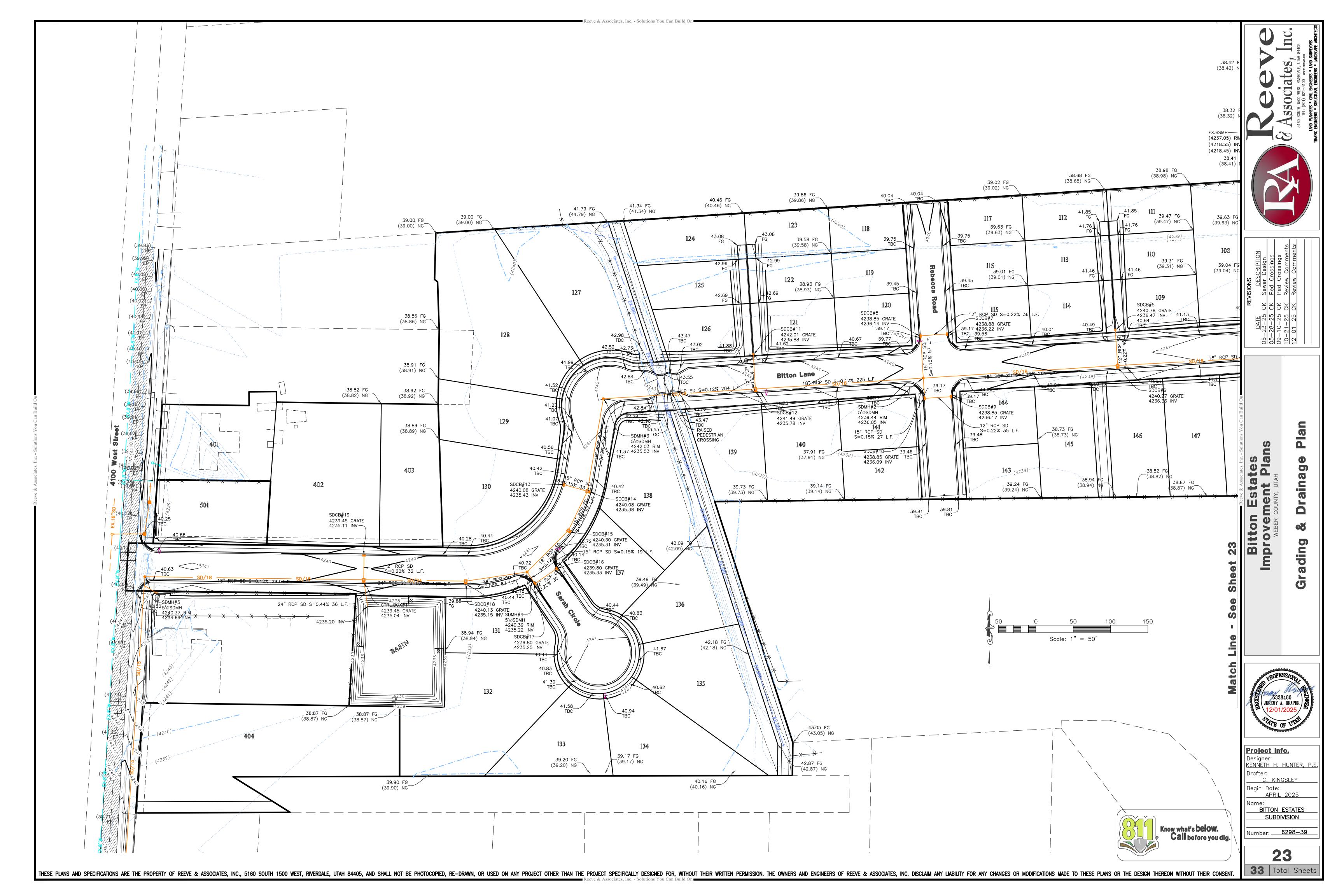
APRIL 2025 Name: BITTON ESTATES SUBDIVISION

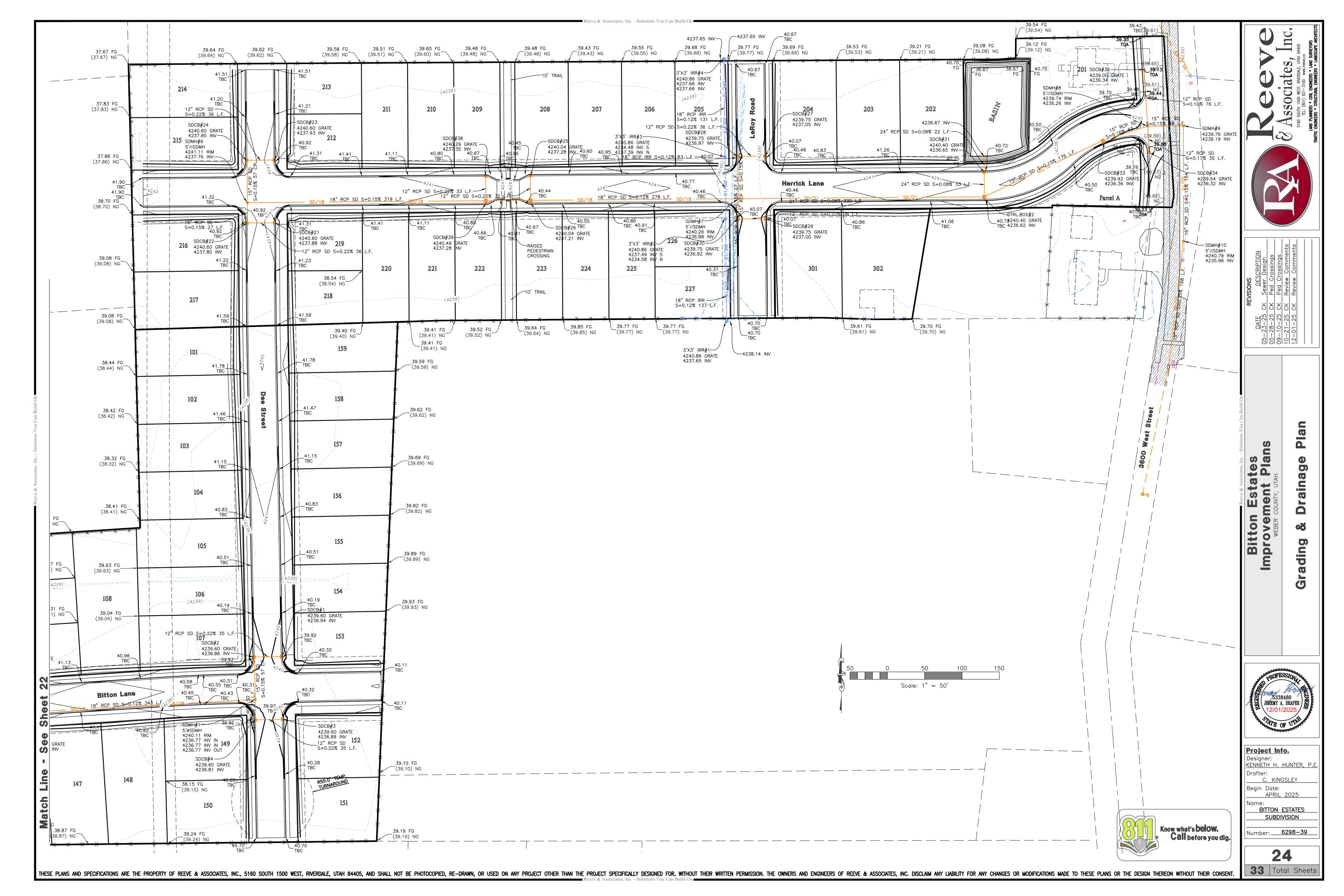
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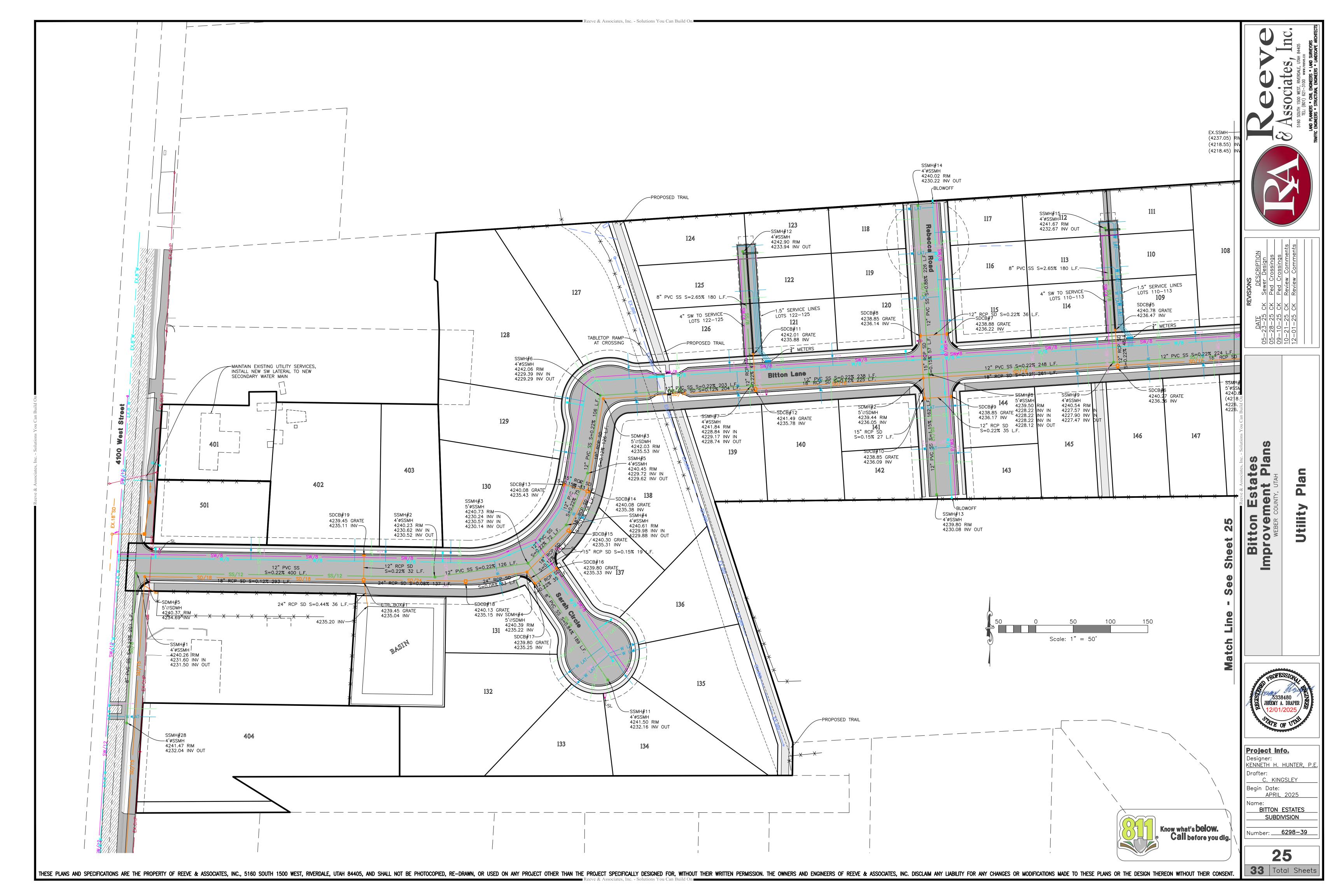
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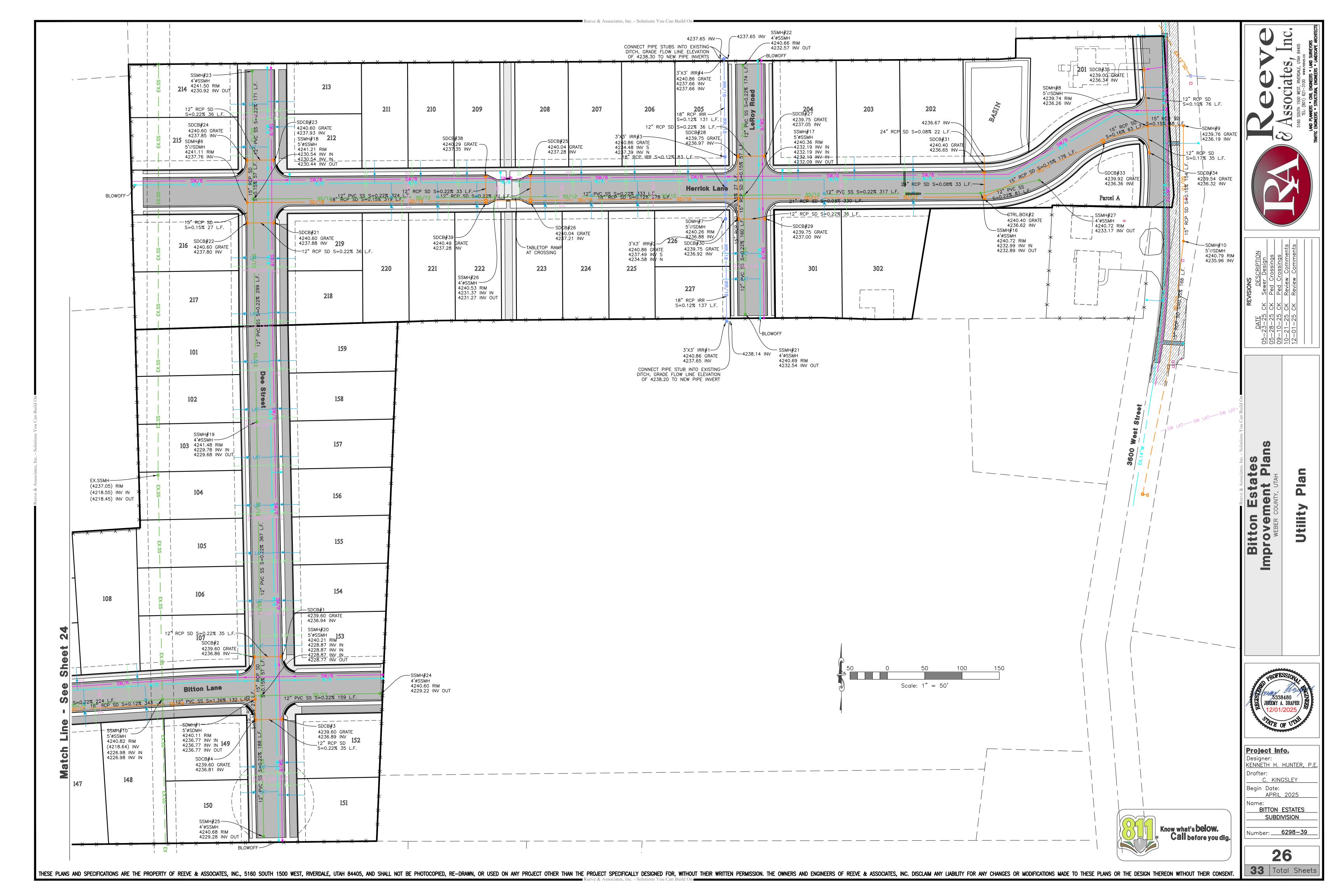
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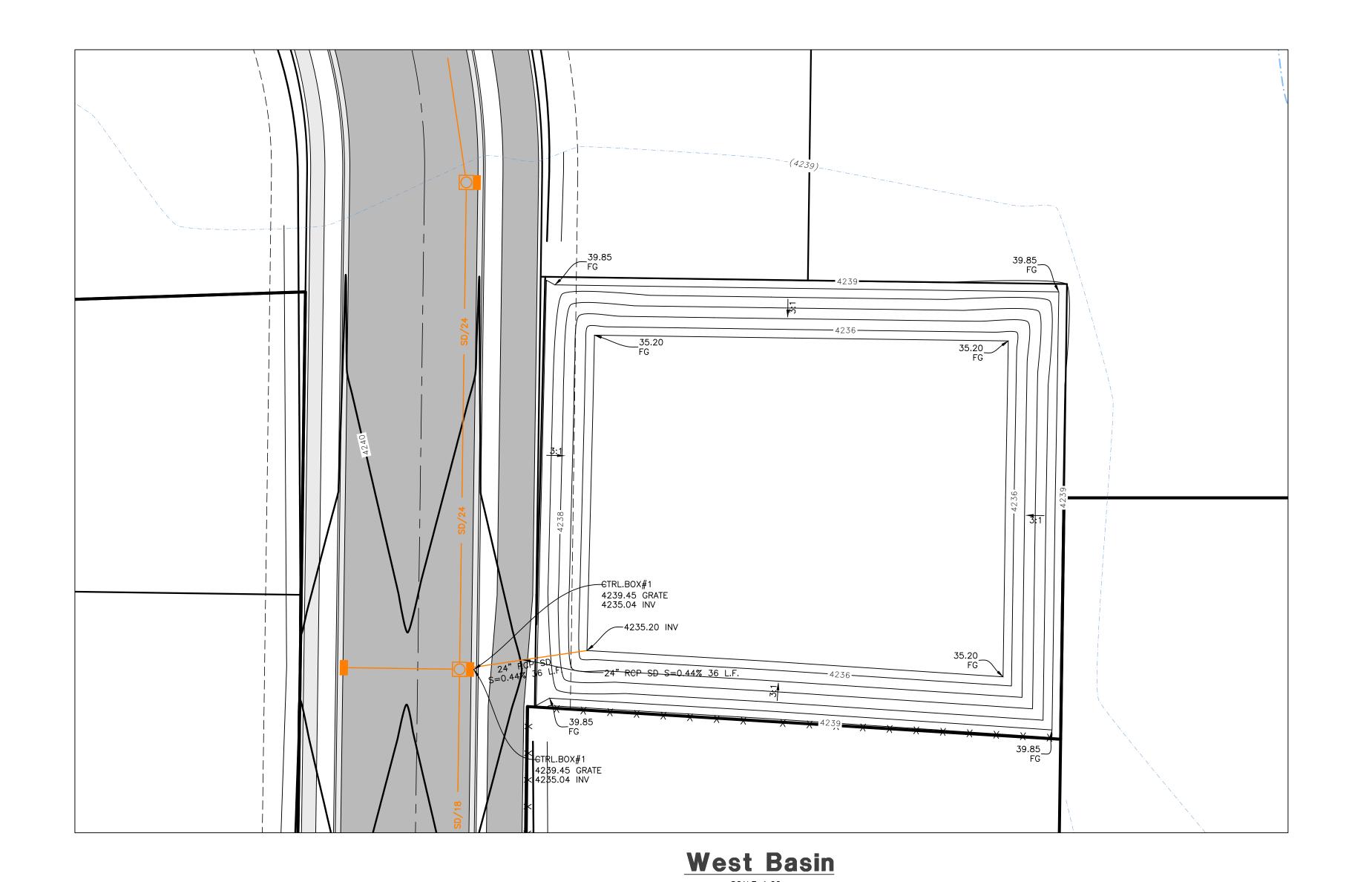
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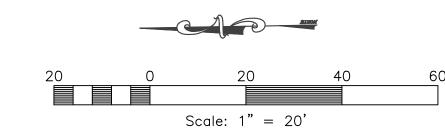


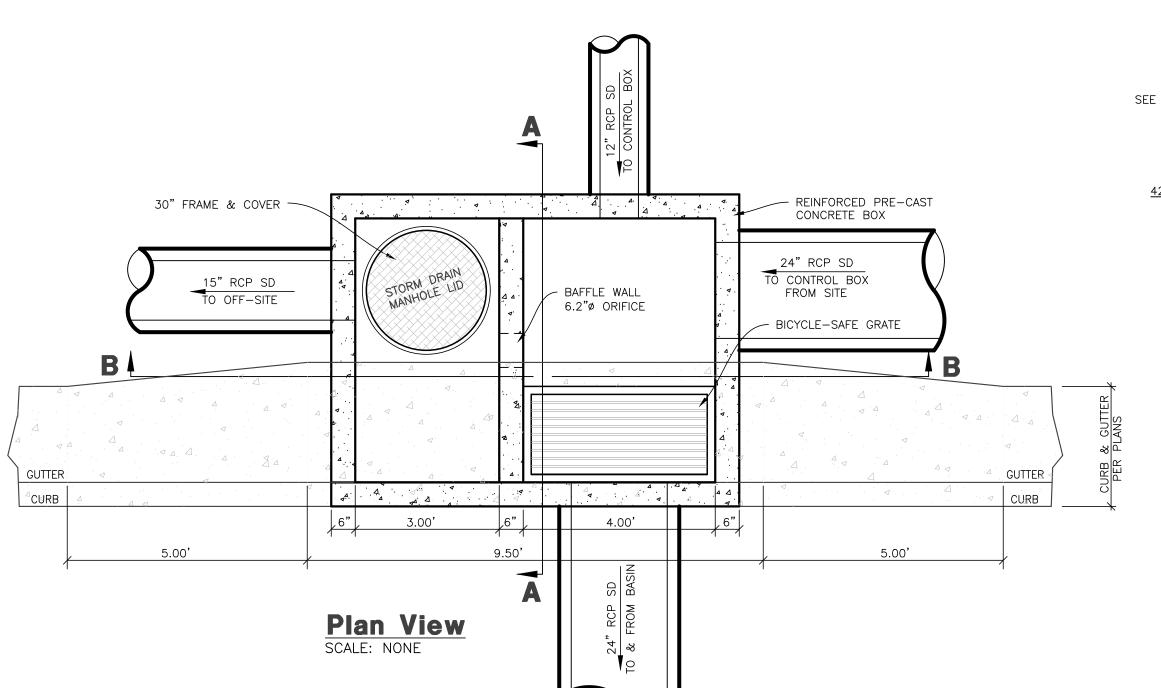


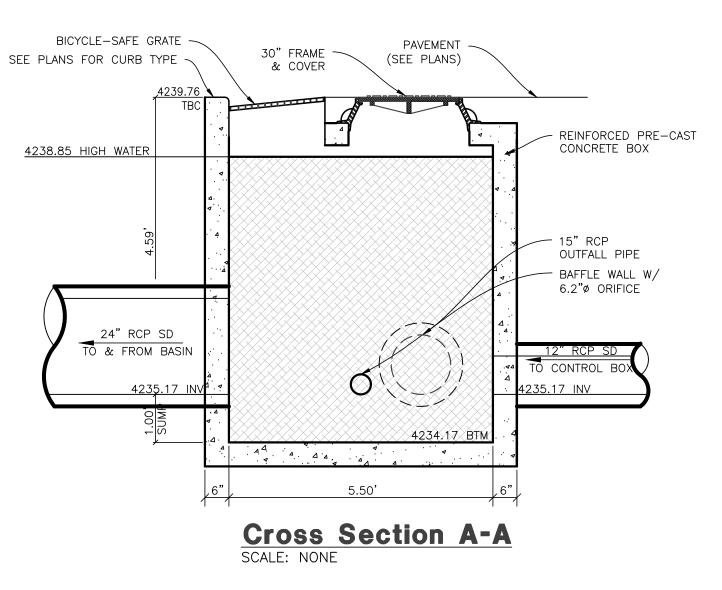


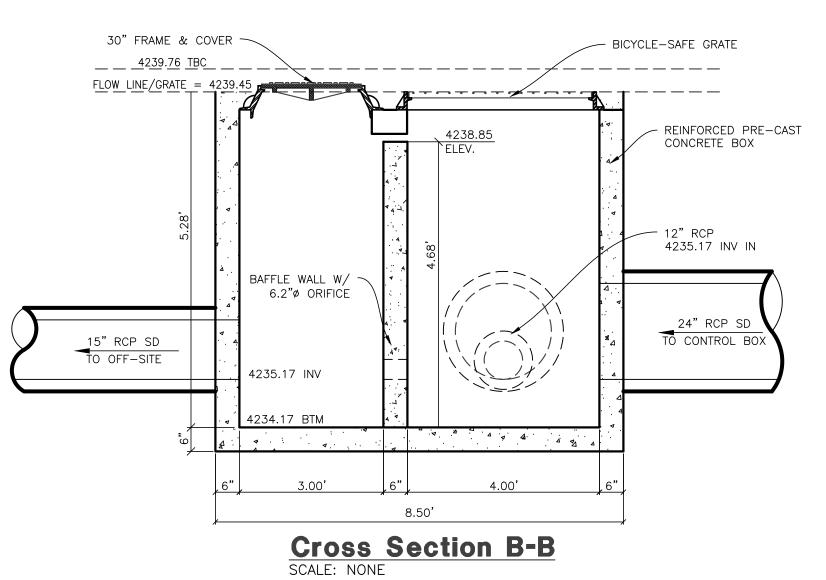


WEST BASIN — STAGE STORAGE TABLE					
ELEV	AREA (sq. ft.)	DEPTH (ft)	CONIC INC. VOL. (cu. ft.)	CONIC TOTAL VOL. (cu. ft.)	
4,235.20	11,120	N/A	N/A	0	воттом
4,236.00	12,126	0.80	9296	9296	
4,237.00	13,508	1.00	12811	22107	
4,238.00	14,968	1.00	14232	36339	
4,238.85	16,269	0.85	13272	49611	HIGHWATER
4,239.00	16,505	0.15	2458	52069	
4,239.85	17,869	0.85	14605	66675	FREEBOARD









West Basin Control Box/ Combo Box

SCALE: NONE

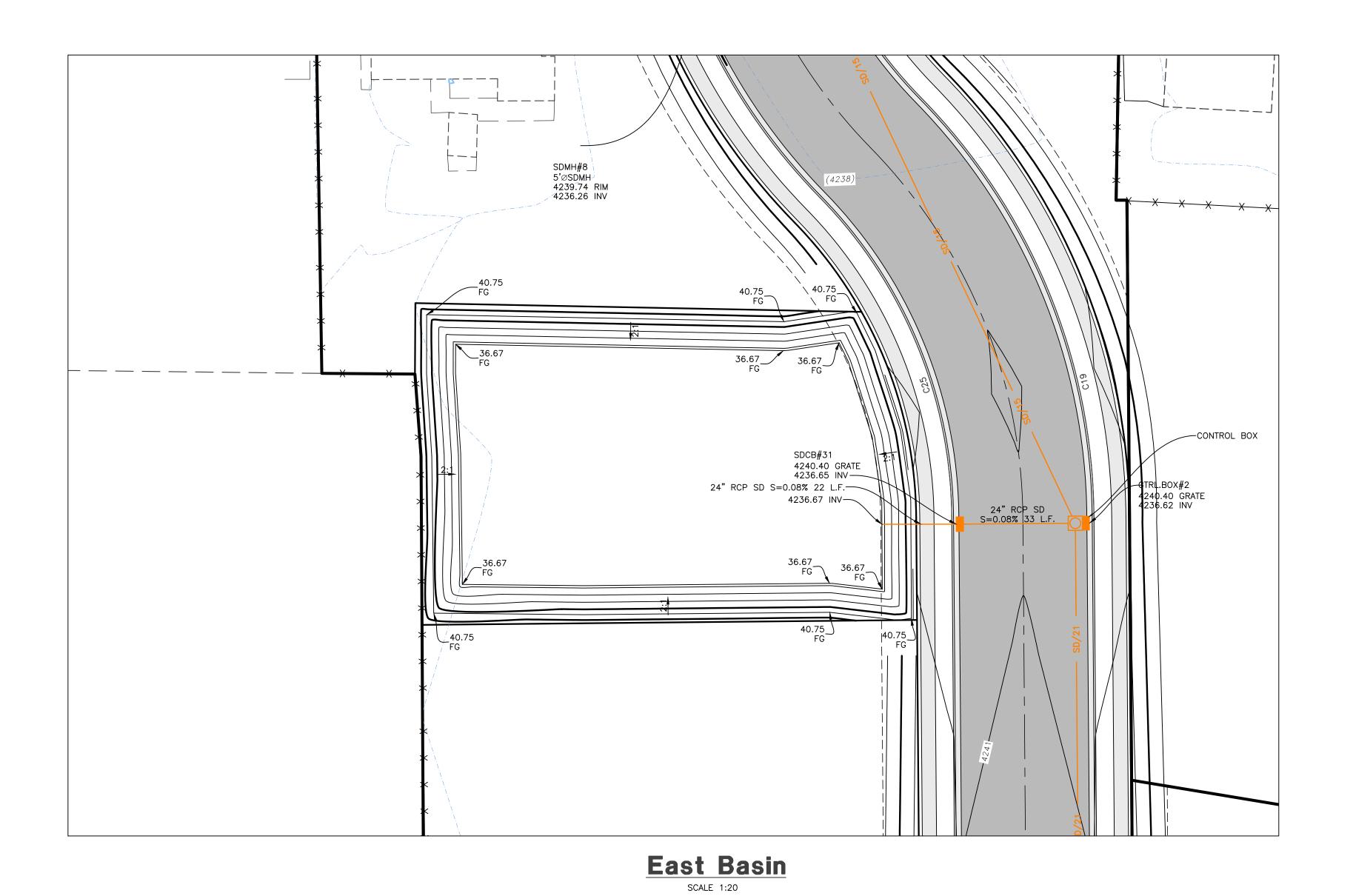
Bitton Estates
Improvement Pla

Details

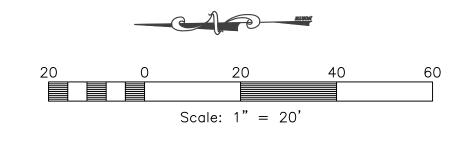
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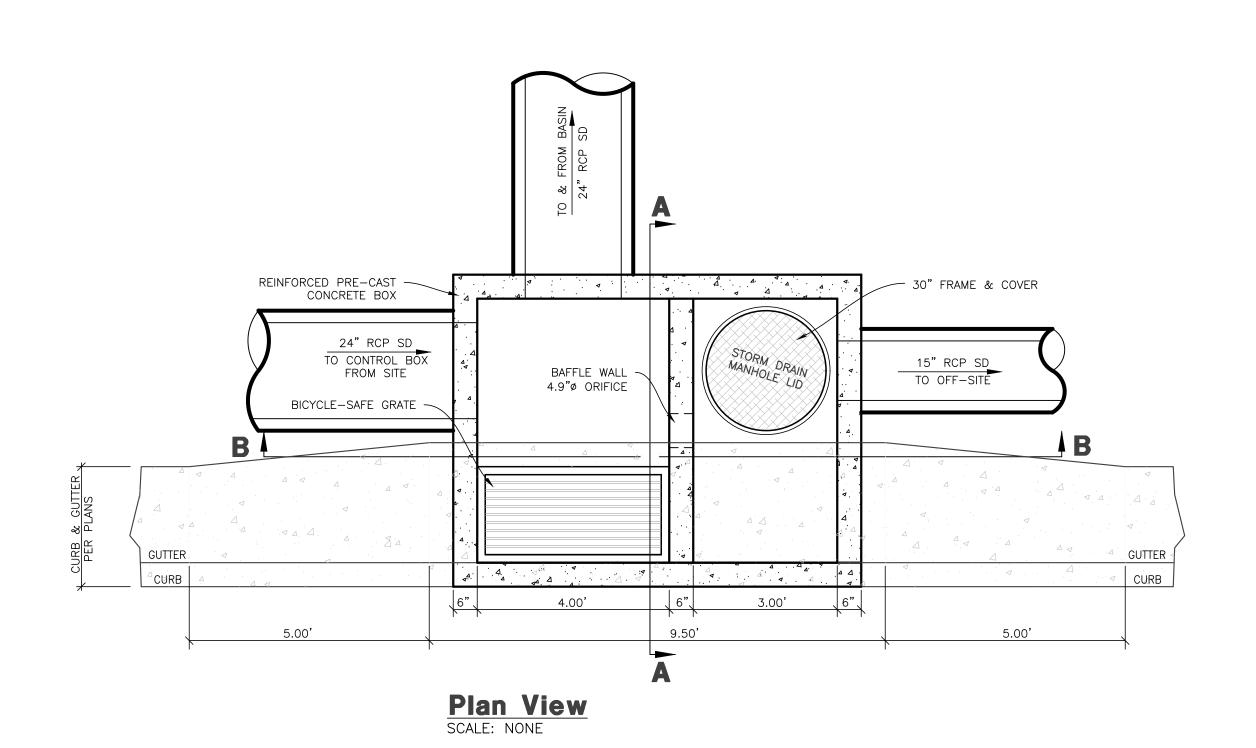
Designer: KENNETH H. HUNTER, P.E Drafter: C. KINGSLEY Begin Date: APRIL 2025 BITTON ESTATES SUBDIVISION

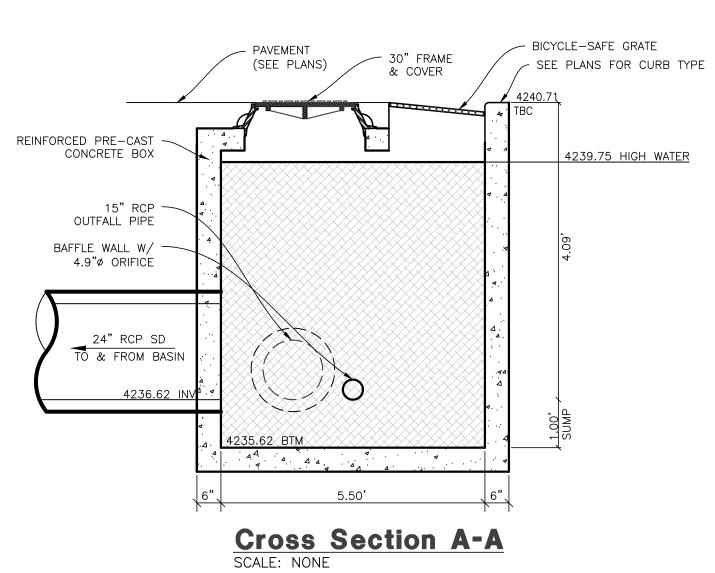
Number: <u>6298–39</u>

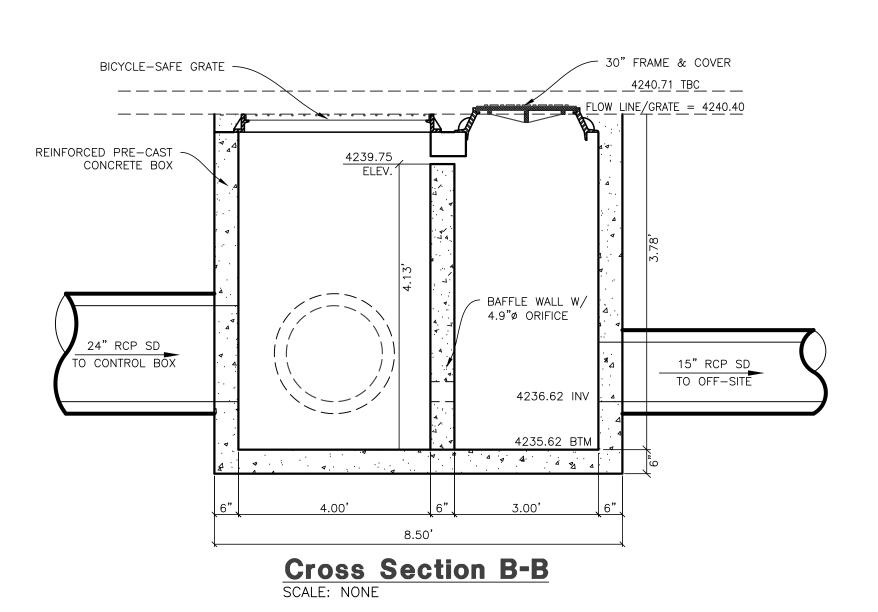


EAST BASIN — STAGE STORAGE TABLE					
ELEV	AREA (sq. ft.)	DEPTH (ft)	CONIC INC. VOL. (cu. ft.)	CONIC TOTAL VOL. (cu. ft.)	
4,236.70	7,764	N/A	N/A	0	воттом
4,237.00	7,985	0.30	2362	2362	
4,238.00	8,752	1.00	8366	10728	
4,239.00	9,557	1.00	9151	19880	
4,239.75	10,186	0.75	7402	27283	HIGHWATER
4,240.00	10,400	0.25	2573	29856	
4,240.75	11,055	0.75	8044	37901	HIGHWATER









East Basin Control Box/ Combo Box
SCALE: NONE

Bitton Estates
Improvement Pla **Details**

Project Info. Designer: KENNETH H. HUNTER, P.E Drafter: C. KINGSLEY Begin Date:
APRIL 2025 BITTON ESTATES SUBDIVISION

Number: <u>6298–39</u>

DRIVEWAY APPROACHES AND CURB &

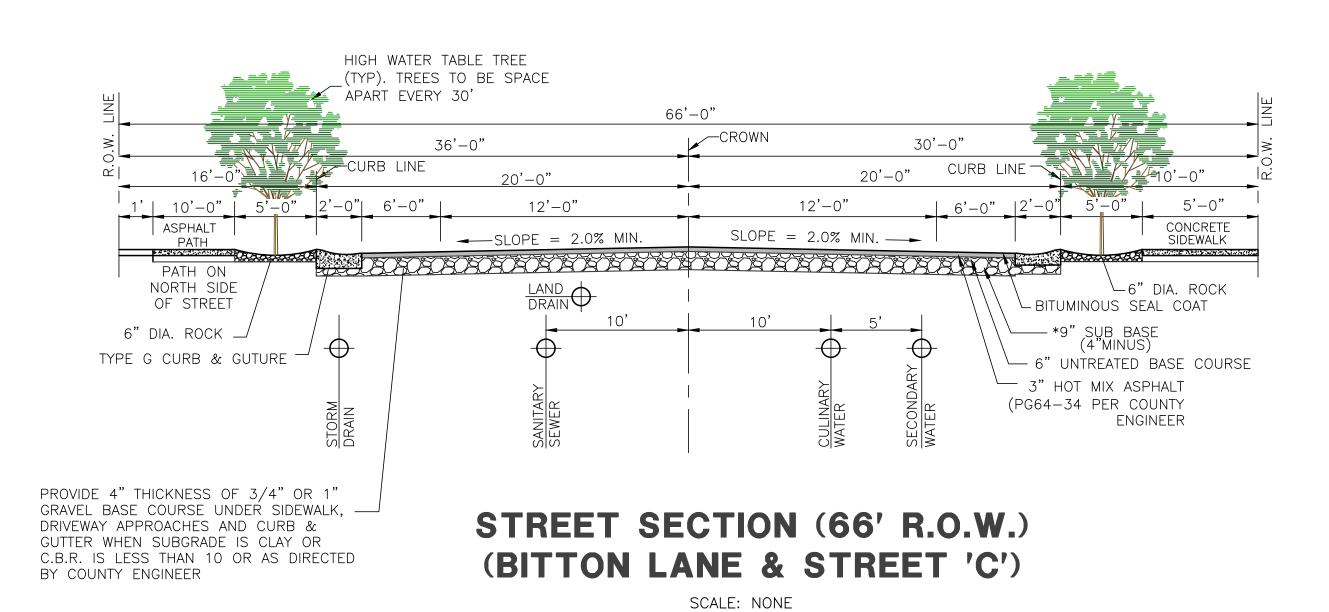
BY COUNTY ENGINEER

GUTTER WHEN SUBGRADE IS CLAY OR C.B.R. IS LESS THAN 10 OR AS DIRECTED

STREET SECTION (60' R.O.W.) (STREETS 'A' & 'B', HERRICK LANE & LEROY ROAD)

> SCALE: NONE *VERIFY LOCATION WITH PHONE, GAS AND POWER COMPANIES.

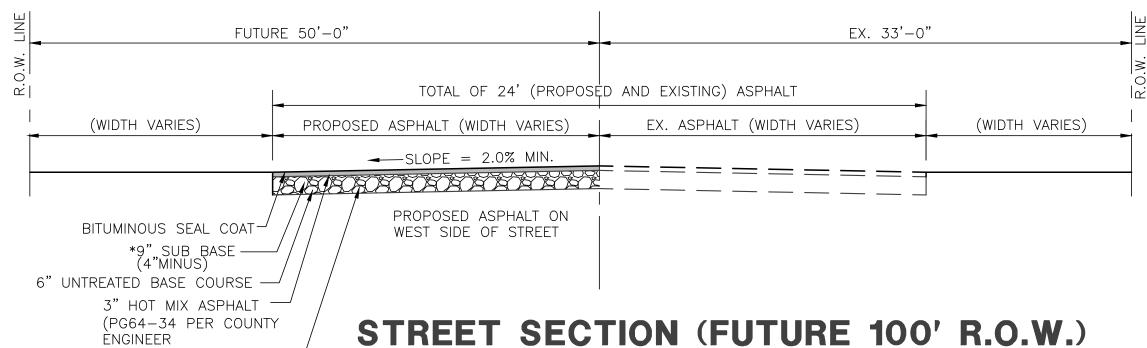
*VERIFY LOCATION WITH PHONE, GAS AND POWER COMPANIES.



66'-0" TOTAL OF 24' (PROPOSED AND EXISTING) ASPHALT 1' | 10'-0" | (WIDTH VARIES) PROPOSED ASPHALT (WIDTH VARIES) EX. ASPHALT (WIDTH VARIES) (WIDTH VARIES) **→**SLOPE = 2.0% MIN. PATH ON EAST SIDE OF STREET BITUMINOUS SEAL COAT-6" UNTREATED BASE COURSE 3" HOT MIX ASPHALT -(PG64-34 PER COUNTY ÈNGINEER STREET SECTION (66' R.O.W.) PROVIDE 4" THICKNESS OF 3/4" OR 1" GRAVEL BASE COURSE UNDER SIDEWALK,

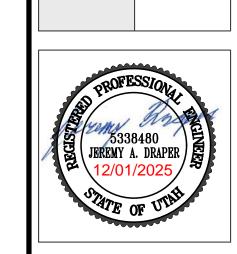
4100 WEST STREET

SCALE: NONE *VERIFY LOCATION WITH PHONE, GAS AND POWER COMPANIES.



3600 WEST STREET

SCALE: NONE *VERIFY LOCATION WITH PHONE, GAS AND POWER COMPANIES.



Project Info. KENNETH H. HUNTER, P.E Drafter: C. KINGSLEY |Begin Date: APRIL 2025

Number: <u>6298-39</u>

BITTON ESTATES SUBDIVISION

33 Total Sheets

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Reeve & Associates, Inc. - Solutions You Can Build

DRIVEWAY APPROACHES AND CURB &

BY COUNTY ENGINEER

GUTTER WHEN SUBGRADE IS CLAY OR C.B.R. IS LESS THAN 10 OR AS DIRECTED

PROVIDE 4" THICKNESS OF 3/4" OR 1" GRAVEL BASE COURSE UNDER SIDEWALK, DRIVEWAY APPROACHES AND CURB &

C.B.R. IS LESS THAN 10 OR AS DIRECTED

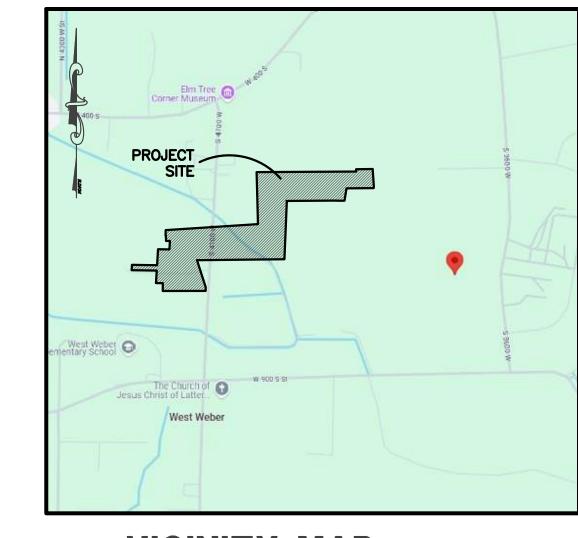
GUTTER WHEN SUBGRADE IS CLAY OR

BY COUNTY ENGINEER

sans **(1)**

Bitton Estates Subdivision Storm Water Pollution Prevention Plan Exhibit

WEBER COUNTY, UTAH APRIL 2025



VICINITY MAP
(NOT TO SCALE)



Project Info. Designer: KENNETH H. HUNTER, P.E Drafter: C. KINGSLEY Begin Date: APRIL 2025 BITTON ESTATES SUBDIVISION

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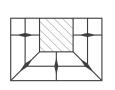
SWPPP Legend

= PORTABLE TOILET

= INLET PROTECTION TYP. (SEE DETAIL) = SILT FENCE (SEE DETAIL)



= 50'x20' CONSTRUCTION ENTRANCE W/8" CLEAN GRAVEL



= CONCRETE WASH AREA (SEE DETAIL) OR AS SELECTED BY CONTRACTOR

SWPPP NOTES:

1. ALL VEHICLES EXITING SITE TO PROCEED THROUGH CONSTRUCTION ENTRANCE TO REDUCE AMOUNTS OF SEDIMENT TRACKED ONTO ROADWAYS.

2. STREETS TO BE SWEPT WITHIN 1000 FEET OF CONSTRUCTION ENTRANCE DAILY IF NECESSARY

Construction Activity Schedule

..WEBER COUNTY, UTAH PROJECT LOCATION. PROJECT BEGINNING DATE. ...APRIL 2025 - BMP'S DEPLOYMENT DATE. - SPECIFIC CONSTRUCTION SCHEDULE INCLUDING BMP CONSTRUCTION SCHEDULE TO BE INCLUDED WITH SWPPP

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Scale: 1" = 150'

Notes:

- Describe all BMP's to protect storm water inlets:
- All storm water inlets to be protected by straw wattle barriers, or gravel bags (see detail).
- Describe BMP's to eliminate/reduce contamination of storm water from:
 - Equipment / building / concrete wash areas: To be performed in designated areas only and surrounded with silt fence barriers.
 - Soil contaminated by soil amendments: If any contaminates are found or generated, contact environmental engineer and contacts listed.
 - Areas of contaminated soil: If any contaminates are found or generated, contact environmental engineer and contacts listed.
 - To be performed in designated areas only and surrounded with silt fence.
 - Vehicle maintenance areas:
 - To be performed in designated areas only and surrounded with silt fence.
 - To be performed in designated areas only and surrounded with silt fence.
 - Equipment storage areas: To be performed in designated areas only and surrounded with silt fence.
 - Materials storage areas: To be performed in designated areas only and surrounded with silt fence.
 - Waste containment areas:
 - To be performed in designated areas only and surrounded with silt fence. To be performed in designated areas only and surrounded with silt fence.
- - Stockpiles and site as needed to be watered regularly to eliminate / control wind erosion

Construction Vehicles and Equipment:

- a. Maintenance Maintain all construction equipment to prevent oil or other fluid leaks.
- Keep vehicles and equipment clean, prevent excessive build—up of oil and grease.
- Regularly inspect on—site vehicles and equipment for leaks, and repair immediately. — Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles)
- for leaking oil and fluids. Do not allow leaking vehicles or equipment on—site. - Segregate and recycle wastes, such as greases, used oil or oil filters, antifreeze, cleaning solutions,
- automotive batteries, hydraulic, and transmission fluids.
- If fueling must occur on—site, use designated areas away from drainage.
- Locate on—site fuel storage tanks within a bermed area designed to hold the tank volume.
- Cover retention area with an impervious material and install in in a manner to ensure that any spills will be contained in the retention area. To catch spills or leaks when removing or changing fluids. Use drip pans for any oil or fluid changes.
- Use as little water as possible to avoid installing erosion and sediment controls for the wash area.
- If washing must occur on—site, use designated, bermed wash areas to prevent waste water discharge into storm water, creeks, rivers, and other water bodies.
- Use phosphate-free, biodegradable soaps. Do not permit steam cleaning on—site.
- Spill Prevention and Control

- Minor spills are those which are likely to be controlled by on—site personnel. After contacting local emergency response agencies, the following actions should occur upon discovery of a minor spill: Contain the spread of the spill.
- If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (i.e. absorbent
- materials, cat litter, and / or rags). — If the spill occurs in dirt areas, immediately contain the spill by constructing an earth dike. Dig up and properly
- dispose of contaminated soil. If the spill occurs during rain, cover the impacted area to avoid runoff.
- Record all steps taken to report and contain spill.
- On—site personnel should not attempt to control major spills until the appropriate and qualified emergency response staff have arrived at the site. For spills of federal reportable quantities, also notify the National Response Center at (800) 424—8802. A written report should be sent to all notified authorities. Failure to report major spills can result in significant fines and penalties.

Post Roadway / Utility Construction

- Maintain good housekeeping practices. Enclose or cover building material storage areas.
- Properly store materials such as paints and solvents.
- Store dry and wet materials under cover, away from drainage areas. Avoid mixing excess amounts of fresh concrete or cement on—site.

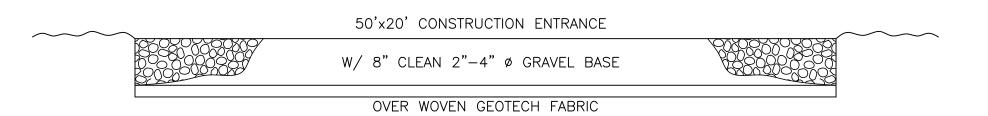
approval by the engineer of record and the governing agency.

- Perform washout of concrete trucks offsite or in designated areas only.
- Do not wash out concrete trucks into storm drains, open ditches, streets, or streams. Do not place material or debris into streams, gutters, or catch basins that stop or reduce the flow of runoff
- All public streets and storm drain facilities shall be maintained free of building materials, mud and debris
- caused by grading or construction operations. Roads will be swept within 1000' of construction entrance daily, if
- Install straw wattle around all inlets contained within the development and all others that receive runoff from the development.

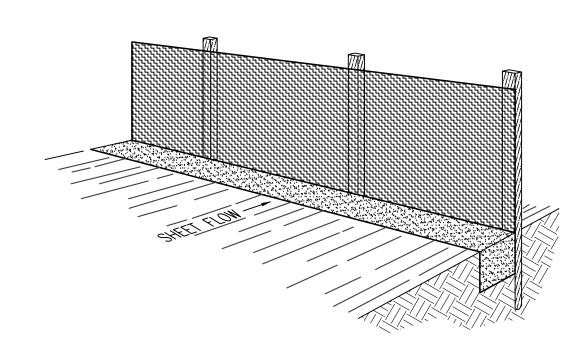
Erosion Control Plan Notes

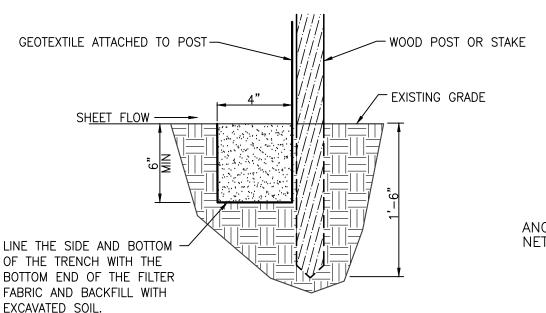
- The contractor will designate an emergency contact that can be reached 24 hours a day 7 days a week.

 A stand—by crew for emergency work shall be available at all times during potential rain or snow runoff events.
- Necessary materials shall be available on site and stockpiled at convenient locations to facilitate rapid construction of emergency devices when rain or runoff is eminent.
- c. Erosion control devices shown on the plans and approved for the project may not be removed without approval of the engineer of record. If devices are removed, no work may continue that have the potential of erosion without consulting the engineer of record. If deemed necessary erosion control should be reestablished before this work begins.
- Graded areas adjacent to fill slopes located at the site perimeter must drain away from the top of the slope at the conclusion of each working day. this should be confirmed by survey or other means acceptable to the engineer of
- All silt and debris shall be removed from all devices within 24 hours after each rain or runoff event.
- Except as otherwise approved by the inspector, all removable protective devices shown shall be in place at the end of
- each working day and through weekends until removal of the system is approved. All loose soil and debris which may create a potential hazard to offsite property shall be removed from the site as
- directed by the engineer of record of the governing agency. The placement of additional devices to reduce erosion damage within the site is left to the discretion of the engineer of
- Desilting basins may not be removed or made inoperable without the approval of the engineer of record and the
- Erosion control devices will be modified as need as the project progresses and plans of these changes submitted for
- Conduct a minimum of one inspection of the erosion and sediment controls every two weeks. Maintain documentation on site. Part III.D.4 of general permit UTRC00000 identifies the minimum inspection requirements.
- Part II.D.4.C identifies the minimum inspection report requirements. Failure to complete and/or document storm water inspections is a violation of part III.D.4 of Utah General Permit UTR



Cross Section 50' x 20' Construction Entrance





Section

Perspective View

The silt fence should be installed prior to major soil disturbances in the drainage area. The fence should be placed across the slope along a line of uniform elevation wherever flow of sediment is anticipated. Table 1 shows generally—recommended maximum slope lengths (slope spacing between fences) at various site grades for most silt fence applications.

TABLE 1: Recommended Maximum Slope Lengths							
for Silt Fence							
(Richardson & N	Middlebrooks, 1991)						
Slope Steepness (%)	Max. Slope Length m (ft)						
(70)							
<2%	30.5m (100ft)						
2-5%	22.9m (75ft)						
5-10%	15.2m (50ft)						
10-20%	7.6m (25ft)						

PREFABRICATED SILT FENCE ROLLS *Excavate a minimum 15.2cm x 15.2cm

>20%

(6"x6") trench at the desired location. *Unroll the silt fence, positioning the post against the downstream wall of the trench *Adjacent rolls of silt fence should be joined be nesting the end post of one fence into the other. Before nesting the end posts, rotate each post until the geotextile is wrapped completely around the post, then abut the end posts to create a tight seal as shown in Figure 1. *Drive posts into the ground until the required fence height and/or anchorage depth is

4.5m (15ft)

*Bury the loose geotextile at the bottom of the fence in the upstream trench and backfill with natural soil, tamping the backfill to provide good compaction and anchorage. Figure 2 illustrates a typical silt fence installation and anchor trench placement.

FIELD ASSEMBLY:

*Excavate a minimum 15.2cm x 15.2cm (6"x6") trench at the desired location. *Drive wooden posts, or steel posts with fastening projections, against the downstream wall of the trench. Maximum post spacing should be 2.4-3.0m (8-10ft). Post spacing

should generally be less than three (3) times the height of the fence. *If a steel or plastic mesh is required to reinforce the geotextile, it shall have a minimum mesh opening of 15.2cm (6"). *Fasten the mesh to the upslope side of the posts using heavy duty wire staples, tie wires

*Inspect the silt fence daily during periods of rainfall, immediately after significant rainfall Make any repairs immediately. *When sediment deposits behind the silt fence are one—third of the fence height, remove Avoid damage to the fabric during cleanout.

struction ceases and the upslope area has been properly stabilized and/or revegetated.

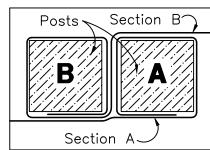
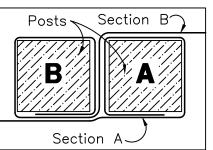


Figure 1: Top View of Roll-to-Roll Connection

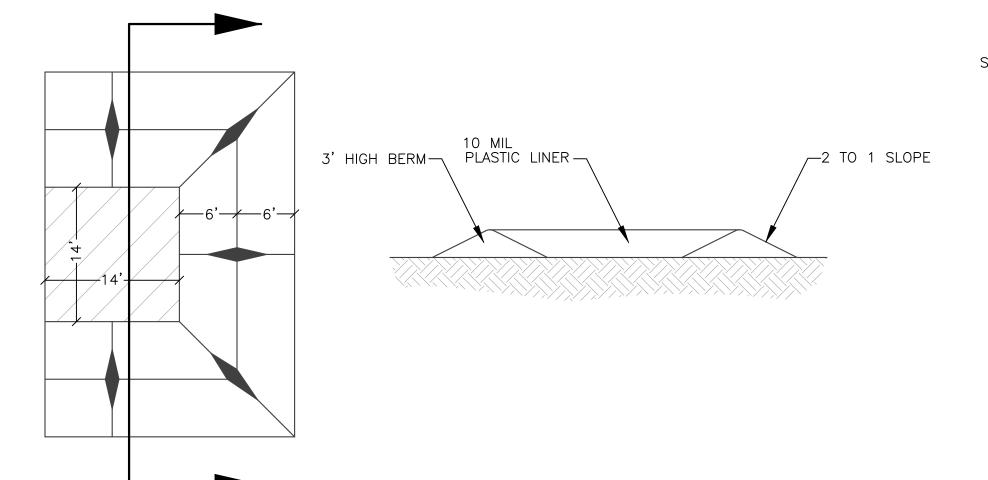
or hog strings. Extend the mesh into the bottom *The geotextile shall then be stapled or wired to the posts. An extra 20-50cm (8-20") of geotextile shall extend into the trench.

event and weekly during periods of no rainfall. and properly dispose of the silt accumulations.

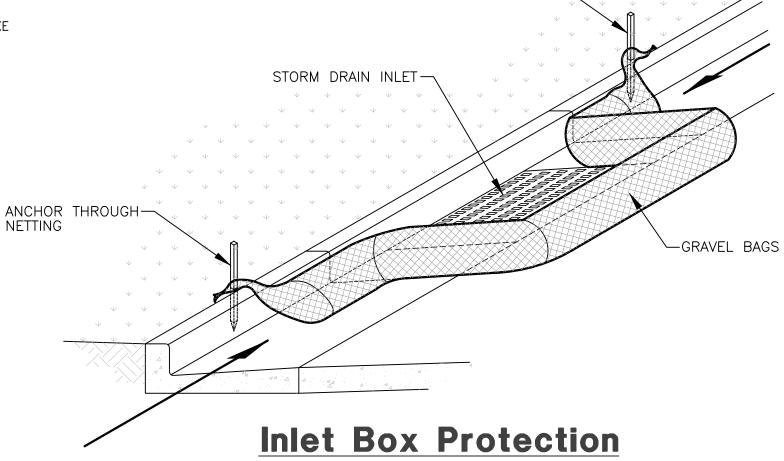
*Silt fence should not be removed until con-



Silt Fence Detail

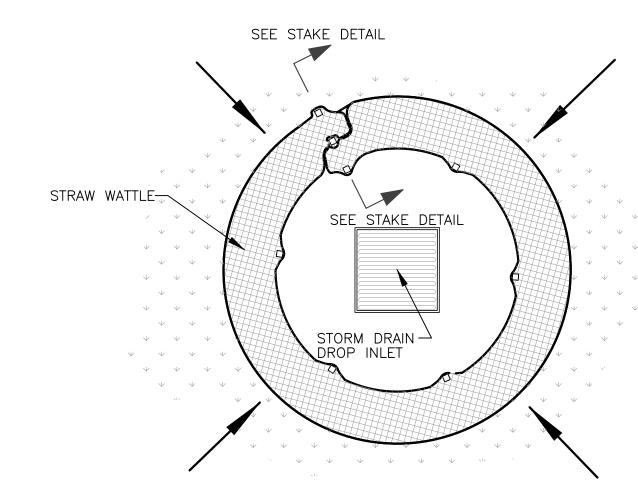


Concrete Washout Area w/ 10 mil Plastic Liner SCALE: NONE

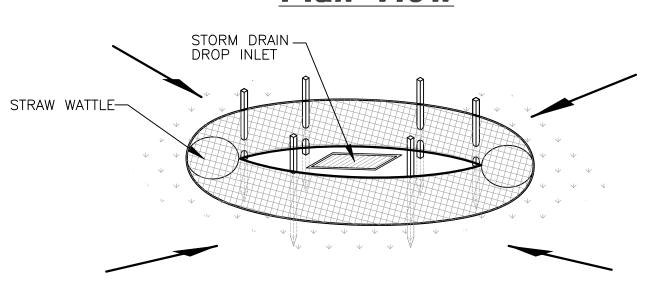


ANCHOR THROUGH-

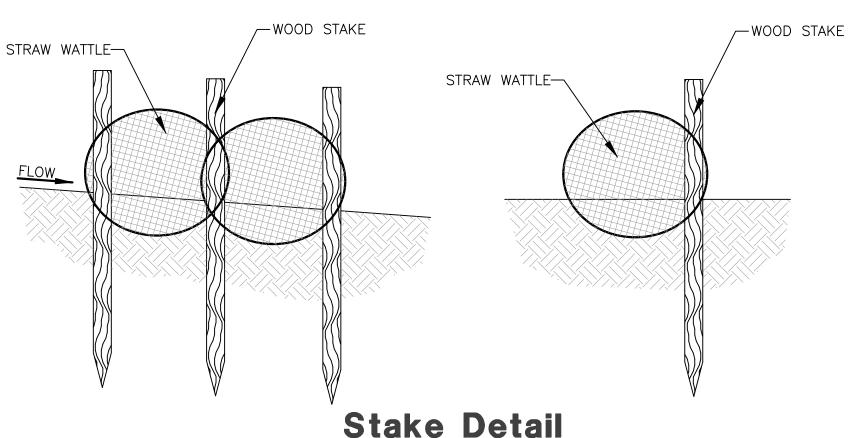
NETTING



Plan View



Drop Inlet Protection



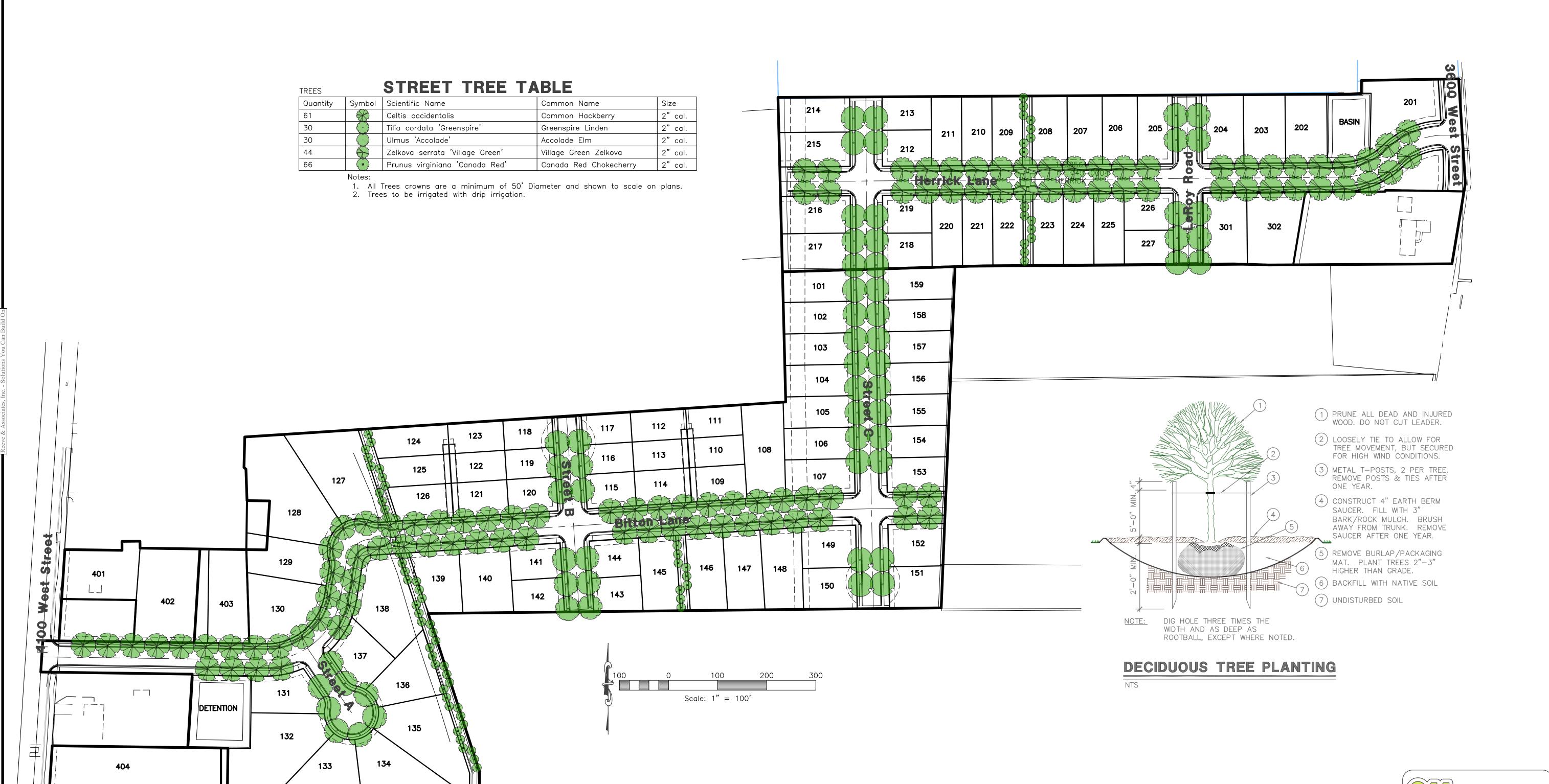
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Project Info. Designer: KENNETH H. HUNTER, P. Drafter: C. KINGSLEY |Begin Date: APRIL 2025

BITTON ESTATES SUBDIVISION Number: <u>6298–39</u>

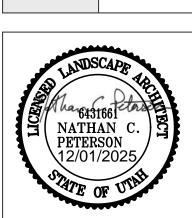






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Bitton Estate Improvement Pl



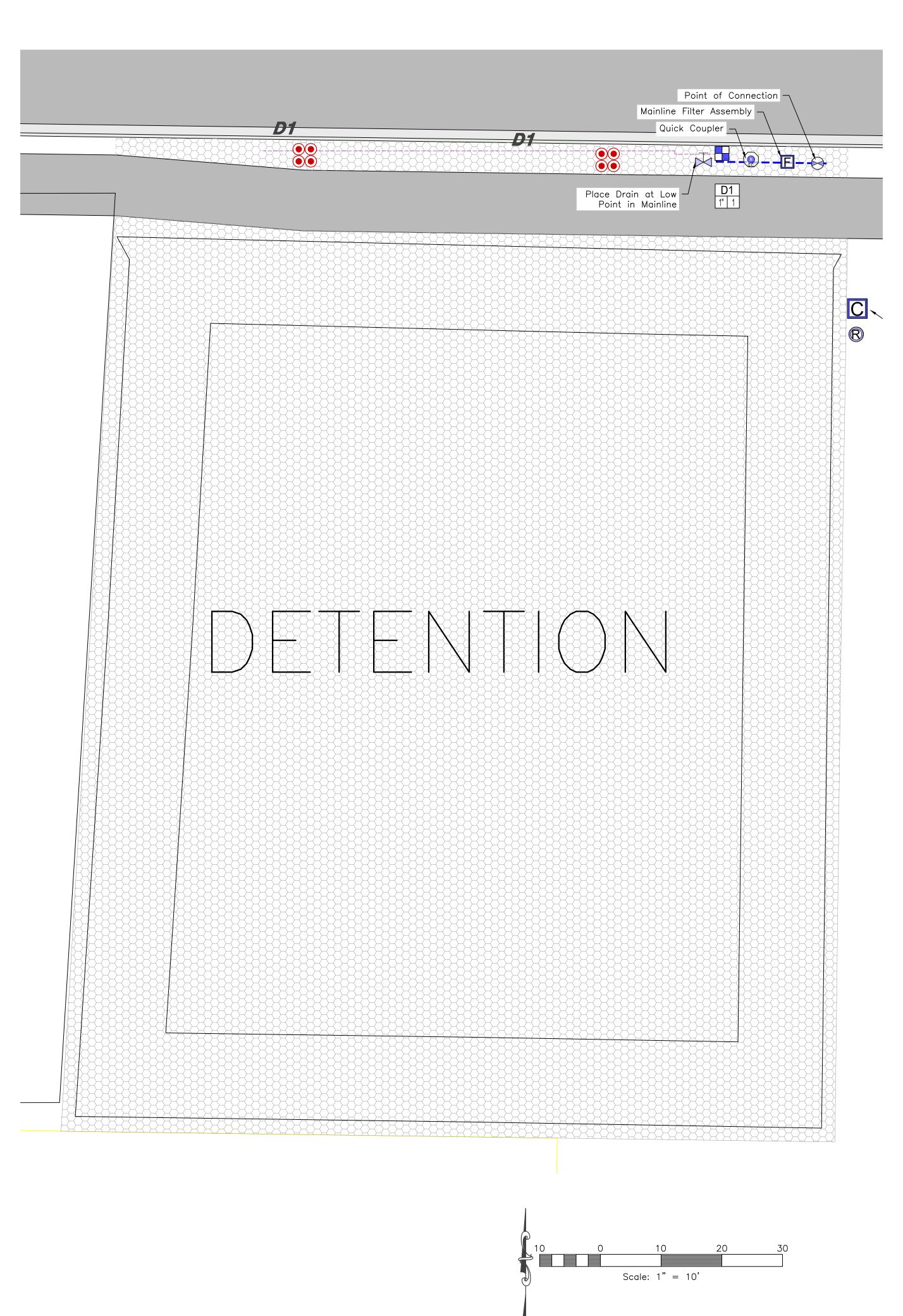
Project Info. Designer: KENNETH H. HUNTER, P.E Drafter:

N. PETERSON |Begin Date: APRIL 2025 BITTON ESTATES SUBDIVISION

Know what's **below.**

Call before you dig.

Number: <u>6298–39</u>



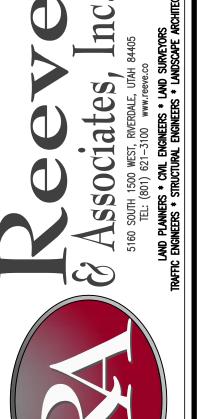
LANDSCAPE TABLE

Symbol	Description	Туре
	Rock Mulch Place mulch over 5 ounce Professional weed barrier cloth in all planting beds.	1" Diameter
	Contractor to provide samples to owner for approval prior to delivery.	3" Depth

1. Detention basin turf areas shall be irrigated with spray and rotor irrigation heads. 2. Park strip areas to be irrigated with drip irrigation.



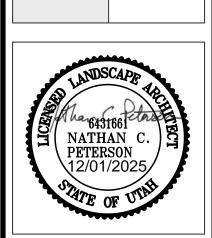
Scale: 1" = 10'





Plan

Bitton Estate Improvement Pl Detention



Project Info. Designer: KENNETH H. HUNTER, P.E N. PETERSON Begin Date:
APRIL 2025 BITTON ESTATES SUBDIVISION Know what's **below.**Call before you dig. Number: 6298-39

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