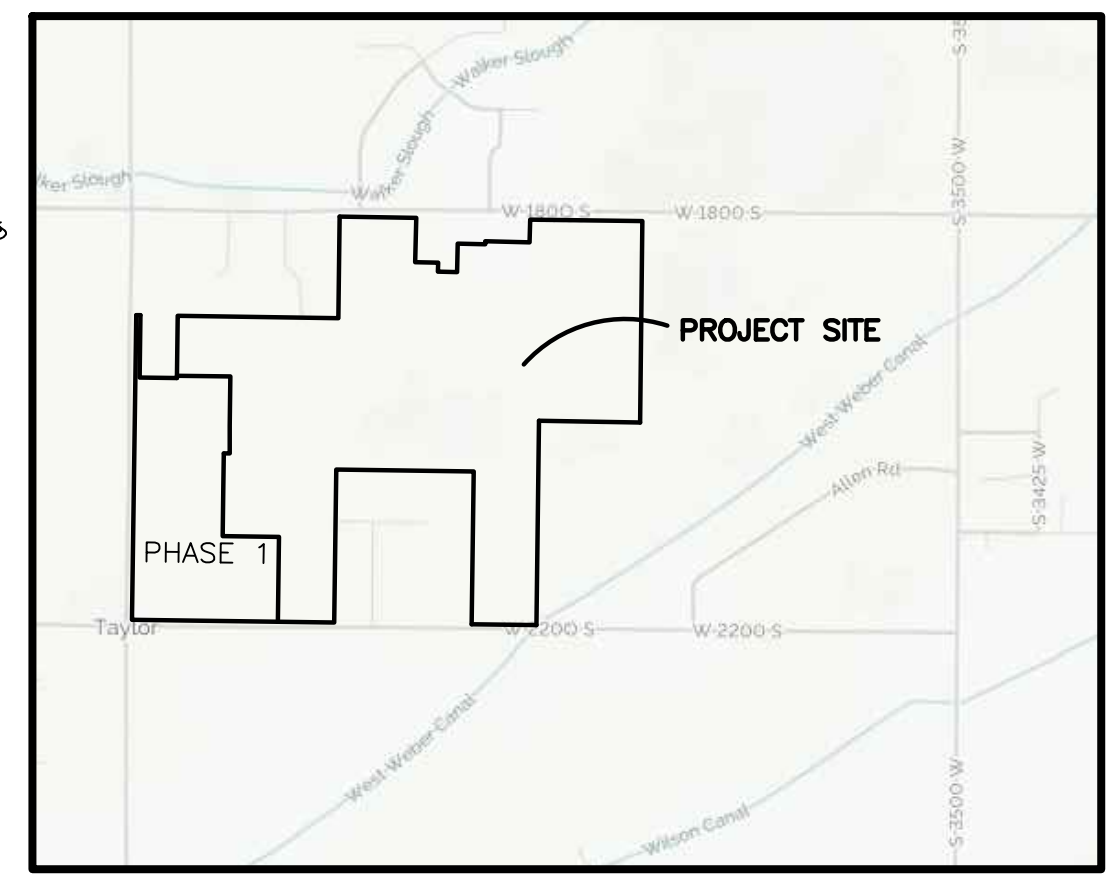
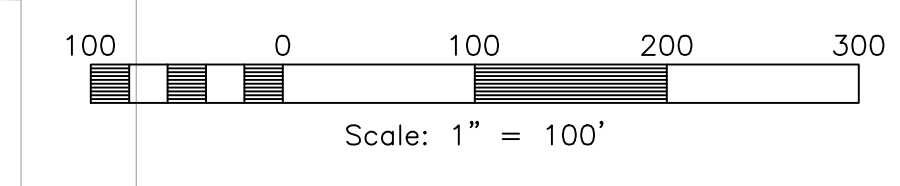
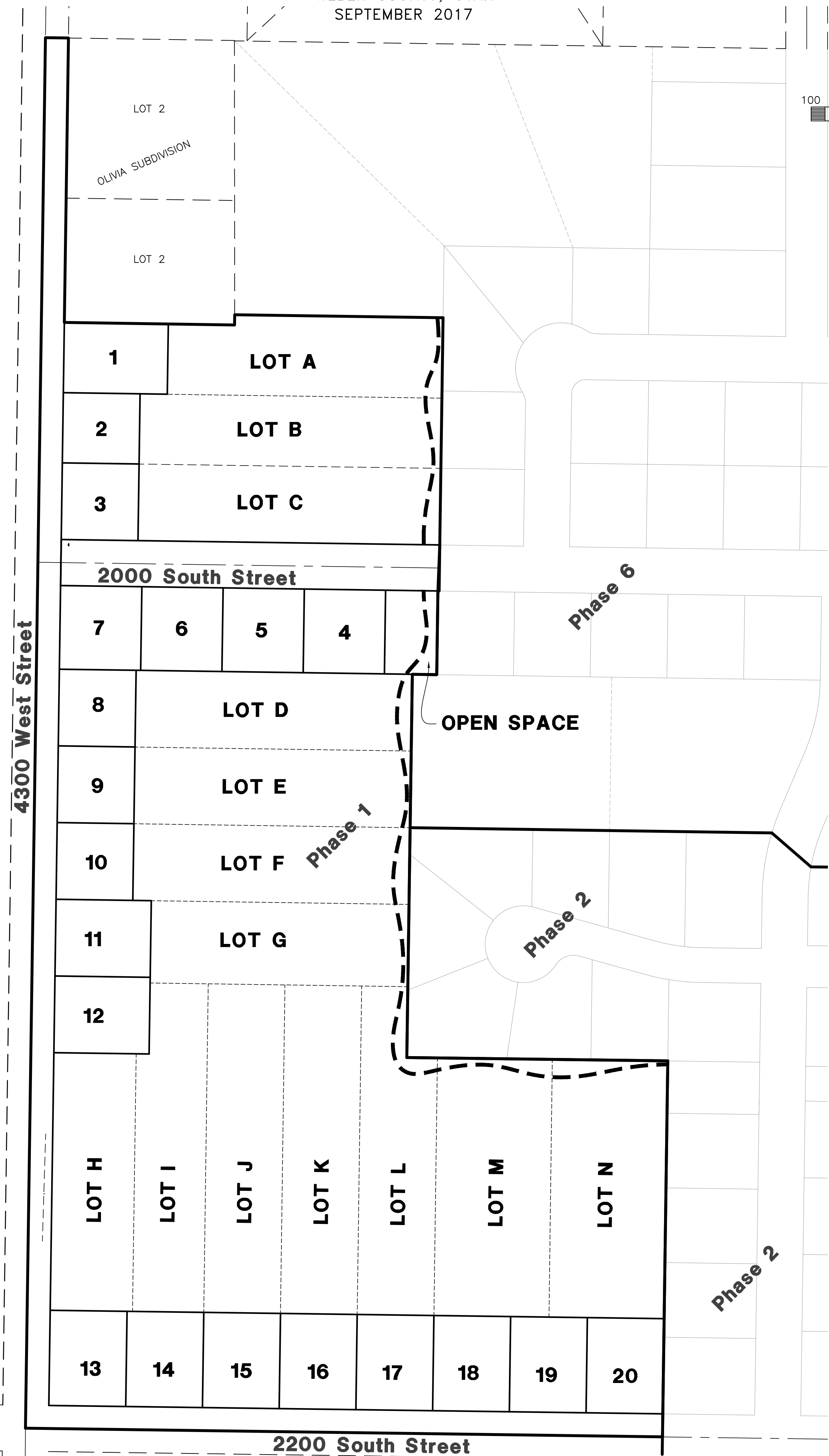


Project Narrative/Notes/Revisions

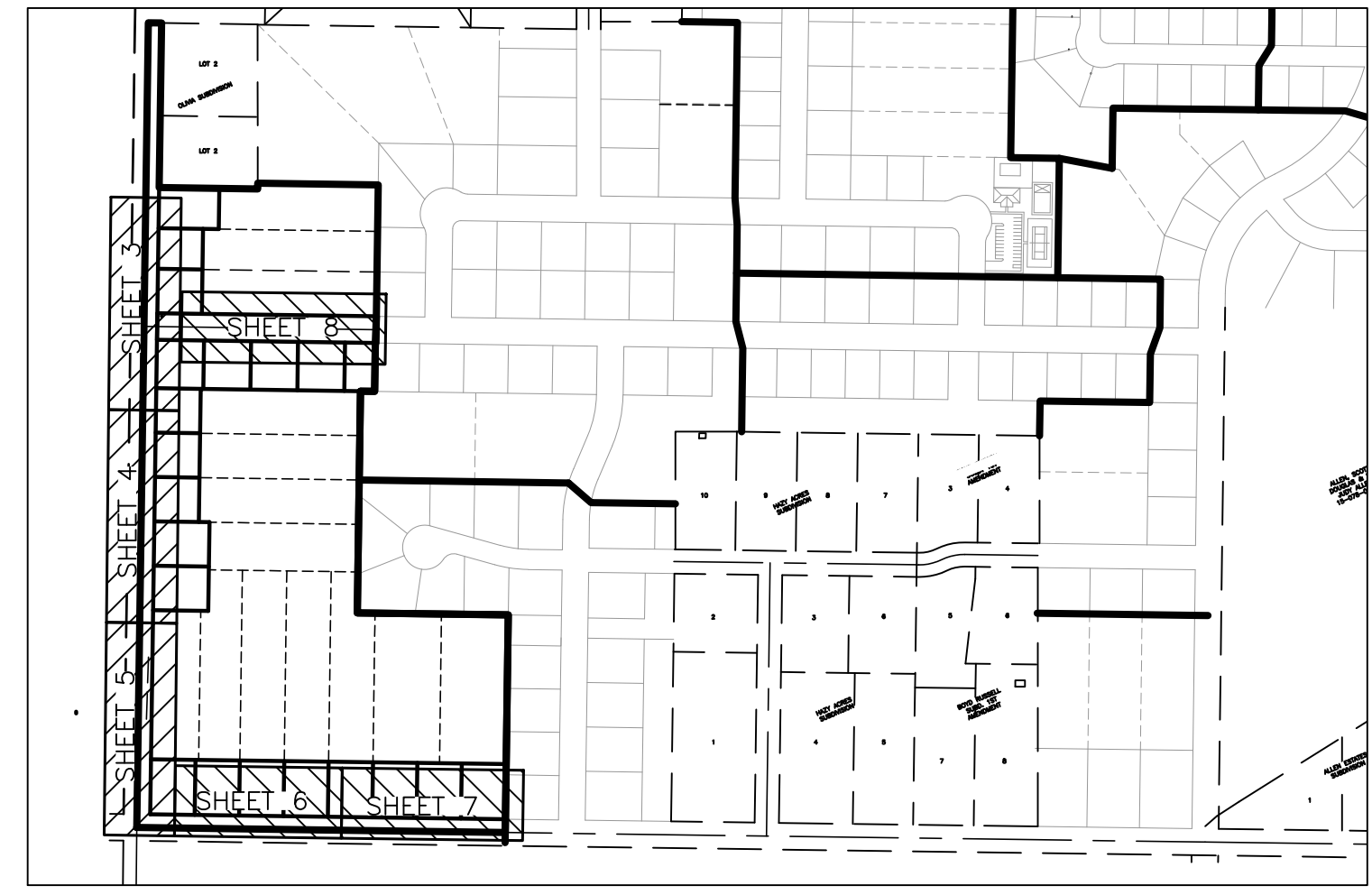
1. 09/28/17 CK - COMPLETED DESIGN FOR CLIENT & COUNTY REVIEW.
2. 01/17/18 CK - UPDATED PER COUNTY REVIEW.
3. 03/22/18 CK - UPDATED PER COUNTY REVIEW.
4. 04/03/18 CK - UPDATED PER COUNTY REVIEW.
5. 04/20/18 EF - UPDATED PER COUNTY & IRRIGATION REVIEW.
6. 05/24/18 EF - UPDATED PER IRRIGATION REVIEW.

Sunset Equestrian Cluster Subdivision Phase 1

WEBER COUNTY, UTAH
SEPTEMBER 2017



Vicinity Map
NOT TO SCALE



Sheet Index Key Map
NOT TO SCALE

Sheet Index

- Sheet 1 - Cover/Index Sheet
- Sheet 2 - Notes/Legend/Street Cross-Section
- Sheet 3 - 4300 West Street - 15+50.00 - 21+00.00
- Sheet 4 - 4300 West Street - 21+00.00 - 26+50.00
- Sheet 5 - 4300 West Street - 26+50.00 - 32+00.00
- Sheet 6 - 2200 South Street - 33+00.00 - 38+00.00
- Sheet 7 - 2200 South Street - 38+00.00 - 43+00.00
- Sheet 8 - 2200 South Street - 60+00.00 - 65+50.00
- Sheet 9 - Grading & Drainage Plan
- Sheet 10 - Utility Plan
- Sheet 11 - Storm Water Pollution Prevention Plan Exhibit
- Sheet 12 - Storm Water Pollution Prevention Plan Details
- Sheet 13 - Taylor - West Weber Water Improvement District Standard Water Details
- Sheet 14 - Hooper Irrigation Company Pressure Irrigation Standards
- Sheet 15 - Hooper Irrigation Company Pressure Irrigation Standards

Engineer's Notice To Contractors

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM AVAILABLE INFORMATION PROVIDED BY OTHERS. THE LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR IS REQUIRED TO 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, AND OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

Developer Contact:

Fieldbrook Properties, Inc.
Chris Haertel/Doug Nosler
Irvine, CA 92618
PH: (949) 453-9279

Blue Stakes Location Center
Call: Toll Free 1-800-662-4111
Two Working Days Before You Dig

Elevation Datum

PROJECT BENCHMARK - W 1/4 CORNER 28, T6N, R2W, SLB&M.
EL. - 4239.806' (NAVD 88)

Flood Information Data

FLOOD ZONE DESIGNATION "X" PER F.E.M.A. FLOOD INSURANCE RATE MAPS, COMMUNITY PANEL NUMBERS 49011C0075E DATED JUNE 18, 2007.

AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

(THE ABOVE STATEMENT IS FOR INFORMATION ONLY AND THE SURVEYOR ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THE CITED MAP OR THE LOCATION OF THE FLOOD ZONE BOUNDARY. IN ADDITION, THE ABOVE STATEMENT DOES NOT REPRESENT THE SURVEYOR'S OPINION OF THE PROBABILITY OF FLOODING.)

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.

5/25/2018 11:51:18 AM I:\erisher\1\G:\5336\05 - Saddleback Village - Weber County\05\Improvements\Sunset_Eq_P1_Impr.dwg

Reeve & Associates, Inc.

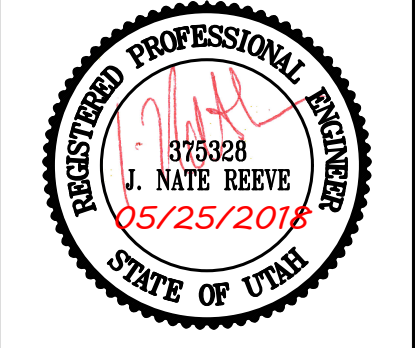
 5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405
 TEL: (801) 621-1000 FAX: (801) 621-2666 www.reeve-assoc.com
 LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
 TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

DATE	DESCRIPTION
01/17/18	CK County Comments
03/22/18	CK County Comments
04/03/18	CK County Comments
04/20/18	EF County & Irrigation
05/24/18	EF Irrigation Revision

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

Sunset Equestrian Cluster Subdivision
Phase 1
WEBER COUNTY, UTAH

Cover/Index Sheet



Project Info.

Engineer:	J. NATE REEVE, P.E.
Drafter:	C. KINGSLEY
Begin Date:	SEPTEMBER 2017
Name:	SUNSET EQUESTRIAN CLUSTER SUBDIVISION PHASE 1
Number:	5336-05

Sheet	15
1	Sheets

General Notes:

- 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 CONTRACTOR'S RESPONSIBILITY. IF CONSTRUCTION PRACTICE IS NOT SPECIFIED BY ANY OF THE LISTED SOURCES, CONTRACTOR MUST CONTACT DESIGN ENGINEER FOR DIRECTION.
- 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.
- 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.
- CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
- 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.
- 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 GRADE CHANGES.
- CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP ANY QUESTIONS BEFOREHAND.
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH BY THE GEOTECHNICAL ENGINEER.
- CATCH SLOPES SHALL BE GRADED AS SPECIFIED ON GRADING PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLAGGING, CAUTION SIGNS, LIGHTS, BARRICADES, FLAGMEN, AND ALL OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
- 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.
- 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.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER, ENGINEER, AND/OR GOVERNING AGENCIES.
- 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.
- 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.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. 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.
- 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.
- 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.
- 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.
- WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE HIGHEST QUALITY ARE TO BE USED.
- 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.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRIPING AND/OR PAVEMENT MARKINGS NECESSARY TO THE EXISTING STRIPING INTO FUTURE STRIPING. METHOD OF REMOVAL SHALL BE BY WATER BLASTING.
- 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.
- ALL EXISTING GATES AND FENCES TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. PROTECT ALL GATES AND FENCES FROM DAMAGE

Utility Notes:

- CONTRACTOR SHALL COORDINATE LOCATION OF NEW "DRY UTILITIES" WITH THE APPROPRIATE UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO: TELEPHONE SERVICE, GAS SERVICE, CABLE, POWER, AND INTERNET.
- 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.
- 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.
- CONTRACTOR SHALL GROUT AT CONNECTION OF PIPE TO BOX WITH NON-SHRINKING GROUT, INCLUDING PIPE VOIDS LEFT BY CUTTING PROCESS, TO A SMOOTH FINISH.
- CONTRACTOR SHALL GROUT WITH NON-SHRINK GROUT BETWEEN GRADE RINGS AND BETWEEN BOTTOM OF INLET LID FRAME AND TOP OF CONCRETE BOX
- 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.
- CONTRACTOR SHALL CLEAN ASPHALT, TAR OR OTHER ADHESIVES OFF OF ALL MANHOLE LIDS AND INLET FRATES TO ALLOW ACCESS.
- 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.
- 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.
- MAINTAIN A MINIMUM 18" VERTICAL SEPARATION DISTANCE BETWEEN ALL UTILITY CROSSINGS.
- CONTRACTOR SHALL START INSTALLATION AT LOW POINT OF ALL NEW GRAVITY UTILITY LINES.
- ALL BOLTED FITTINGS MUST BE GREASED AND WRAPPED.
- UNLESS SPECIFICALLY NOTED OTHERWISE, MAINTAIN AT LEAST 2 FEET OF COVER OVER ALL STORM DRAIN LINES AT ALL TIMES (INCLUDING DURING CONSTRUCTION).
- ALL WATER LINES SHALL BE INSTALLED A MINIMUM OF 48" BELOW FINISHED GRADE.
- ALL SEWER LINES AND SEWER SERVICES SHALL HAVE A MINIMUM 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.
- CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE ANGLE POINTS AND TEES.
- ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK AND STREET PAVING.
- CONTRACTOR SHALL INSTALL MAGNETIC LOCATING TAPE CONTINUOUSLY OVER ALL NONMETALLIC PIPE.
- ALL TRENCHES ACROSS THE ROADWAYS WILL NEED TO BE DONE IN A "T-PATCH" METHOD.

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 AGENCY'S 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 METHODS:
- SPRAYING DISTURBED AREAS WITH A TACKIFIER VIA HYDROSEED
 - TRACKING STRAW PERPENDICULAR TO SLOPES
 - INSTALLING A LIGHT-WEIGHT, TEMPORARY EROSION CONTROL BLANKET

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.

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.

Hooper Irrigation Company Notes:

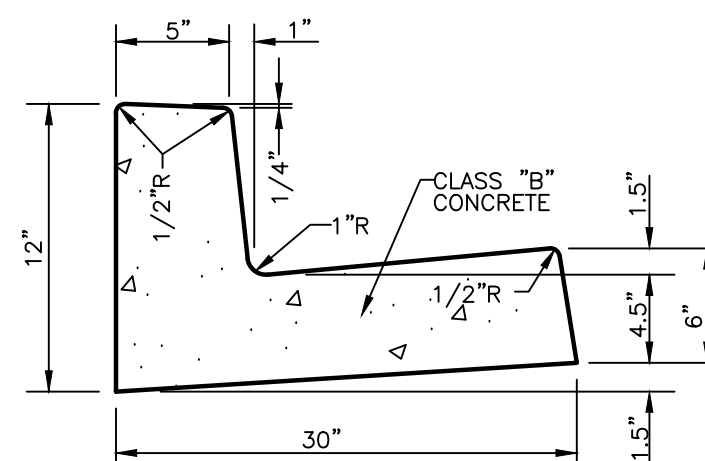
- IRRIGATION LINE WORK TO ADHERE TO HOOPER IRRIGATION DESIGN AND CONSTRUCTION STANDARDS.
- SECONDARY WATER LINE WORK AND CONNECTIONS TO ADHERE TO HOOPER IRRIGATION DESIGN AND CONSTRUCTION STANDARDS.

- W — = PROPOSED CULINARY WATER LINE
- EX.W — = EXISTING CULINARY WATER LINE
- SS — = PROPOSED SANITARY SEWER LINE
- EX.SS — = EXISTING SANITARY SEWER LINE
- SD — = PROPOSED STORM DRAIN LINE
- EX.SD — = EXISTING STORM DRAIN LINE
- LD — = PROPOSED LAND DRAIN LINE
- EX.LD — = EXISTING LAND DRAIN LINE
- SW — = PROPOSED SECONDARY WATER LINE
- EX.SW — = EXISTING SECONDARY WATER LINE
- IRR — = PROPOSED IRRIGATION LINE
- EX.IRR — = EXISTING IRRIGATION LINE
- OHP — = EXISTING OVERHEAD POWER LINE
- TEL — = EXISTING TELEPHONE LINE
- GAS — = EXISTING NATURAL GAS LINE
- E — = EXISTING EDGE OF PAVEMENT
- X — X — X — = FENCE LINE
- — — = 6' WIDE ROAD BASE TRAIL
- — — = DITCH/SWALE FLOWLINE
- = PROPOSED FIRE HYDRANT
- = EXISTING FIRE HYDRANT
- = PROPOSED MANHOLE
- = EXISTING MANHOLE
- = PROPOSED SEWER CLEAN-OUT
- X = PROPOSED GATE VALVE
- X = EXISTING GATE VALVE
- = PROPOSED WATER METER
- = EXISTING WATER METER
- = PROPOSED CATCH BASIN

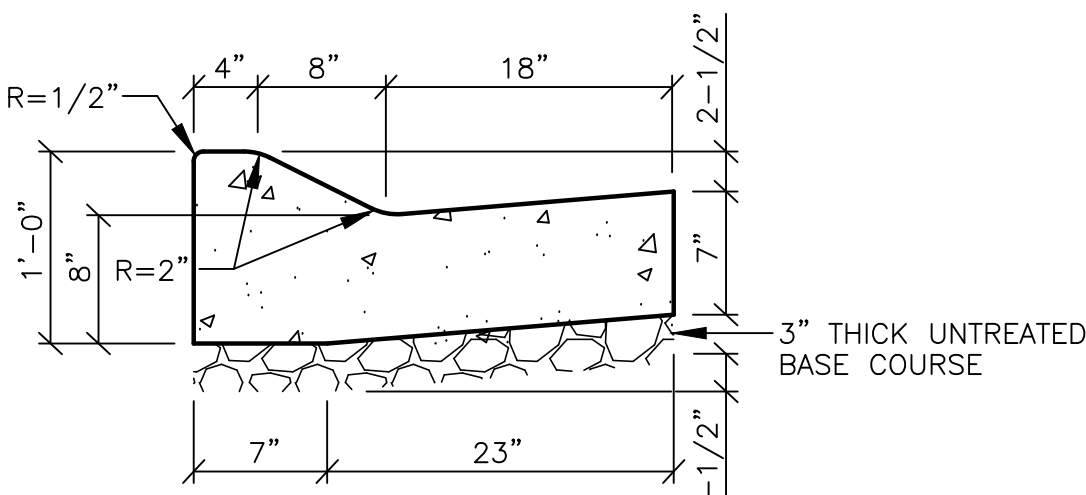
Legend

- = EXISTING CATCH BASIN
- = EXISTING SPRINKLER
- = PLUG W/ 2" BLOW-OFF
- = AIR-VAC ASSEMBLY
- = PROPOSED REDUCER
- ⌋ = PLUG & BLOCK
- = STREET LIGHT
- ⌋ = SIGN
- BLDG = BUILDING
- BVC = BEGIN VERTICAL CURVE
- C&G = CURB & GUTTER
- C.BASIN = CATCH BASIN
- C.BOX = COMBO BOX
- C.F. = CUBIC FEET
- C.F.S. = CUBIC FEET PER SECOND
- CL = CENTERLINE
- DI = DUCTILE IRON
- EP = EDGE OF PAVEMENT
- EVC = END VERTICAL CURVE
- FC = FENCE CORNER
- FF = FINISH FLOOR
- FFE = FINISH FLOOR ELEVATION
- FG = FINISHED GRADE
- FH = FIRE HYDRANT
- FL = FLOW LINE
- GB = GRADE BREAK
- HDPE = HIGH DENSITY POLYETHYLENE PIPE
- INV = INVERT
- IRR = IRRIGATION
- LD = LAND DRAIN

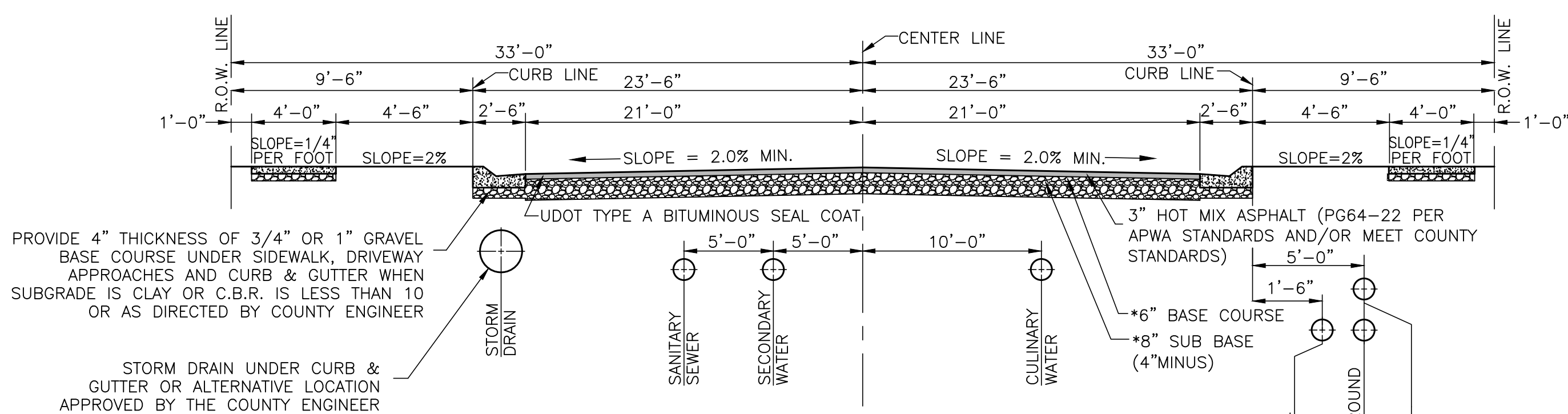
- L.F. = LINEAR FEET
- NG = NATURAL GRADE
- O.C. = ON CENTER
- PC = POINT OF CURVE
- PRC = POINT OF REVERSE CURVE
- PRVC = POINT OF REVERSE VERTICAL CURVE
- PT = POINT OF TANGENT
- PP = POWER/UTILITY POLE
- P.U.E. = PUBLIC UTILITY EASEMENT
- R/C = REBAR & CAP
- RCB = REINFORCED CONCRETE BOX
- RCP = REINFORCED CONCRETE PIPE
- RIM = RIM OF MANHOLE
- R.O.W. = RIGHT-OF-WAY
- SD = STORM DRAIN
- SS = SANITARY SEWER
- SW = SECONDARY WATER
- TBC = TOP BACK OF CURB
- TOE = TOE OF SLOPE
- TOP = TOP OF SLOPE
- TOW = TOP OF WALL
- TSW = TOP OF SIDEWALK
- VPI = VERTICAL POINT OF INTERSECT.
- W = CULINARY WATER
- WM = WATER METER
- = NEW PAVEMENT
- = NEW CONCRETE
- = EXISTING PAVEMENT



On-Site 'A' Type Curb & Gutter
SCALE: NONE
(4300 WEST & 2200 SOUTH)



Mountable Curb & Gutter
SCALE: NONE
(2000 SOUTH)



Street Section (66' R.O.W.)

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

NOTE: THESE PAVEMENT THICKNESS SHALL BE CONSIDERED AS MINIMUMS AND MAY BE INCREASED BY THE COUNTY ENGINEER WHEN THE SUBGRADE C.B.R. IS LESS THAN 10 OR WHEN A GREATER DEPTH IS NECESSARY TO PROVIDE SUFFICIENT STABILITY. DEVELOPER MAY SUBMIT AN ALTERNATIVE PAVEMENT DESIGN BASED ON A SOILS ANALYSIS FOR APPROVAL BY THE COUNTY ENGINEER. COMPACTION TESTS ON BOTH SUB-BASE AND BASE COURSES WILL BE REQUIRED.

GEOTECHNICAL REPORT TO GOVERN.

Central Weber Sewer Improvement District Notes:

- MAX 4" LATERALS TO CONNECT WITH MAIN LINES (30" & 42") WITH INSERTED COMPRESSION TEE.
- CONTRACTOR TO PROVIDE SUFFICIENT BASE FOR "DOG HOUSE" MANHOLE SO MANHOLE DOES NOT REST ON EXISTING PIPE.
- CONTRACTOR CANNOT BYPASS FLOW FOR MANHOLE OF LATERAL INSTALLATIONS.
- CENTRAL WEBER SEWER IMPROVEMENT DISTRICT REQUIRES INSPECTION FOR ALL INSTALLATIONS AND SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO REQUIRED INSPECTION. PH: (801) 731-3011 MON-FRI 8 AM - 5 PM

S:\25\2018\1\erisher\05\336\Improvements\Sunset_Eq_P1_imp.dwg Reeve & Associates, Inc. - Solutions You Can Build On

Reeve & Associates, Inc.
TRA
1610 SOUTH 1500 WEST, RIVERDALE, UTAH 84405
TEL: (801) 681-1000 FAX: (801) 681-8866 www.reeve-assoc.com
LAND OWNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

DATE	DESCRIPTION
01/17/18	CK
03/22/18	CK County Comments
04/03/18	CK County Comments
04/20/18	EF Irrigation & Grading
05/24/18	EF Irrigation Revision

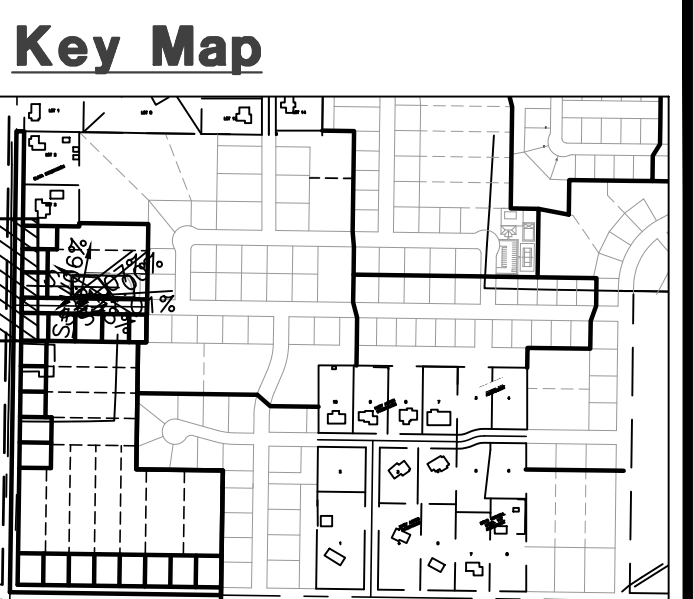
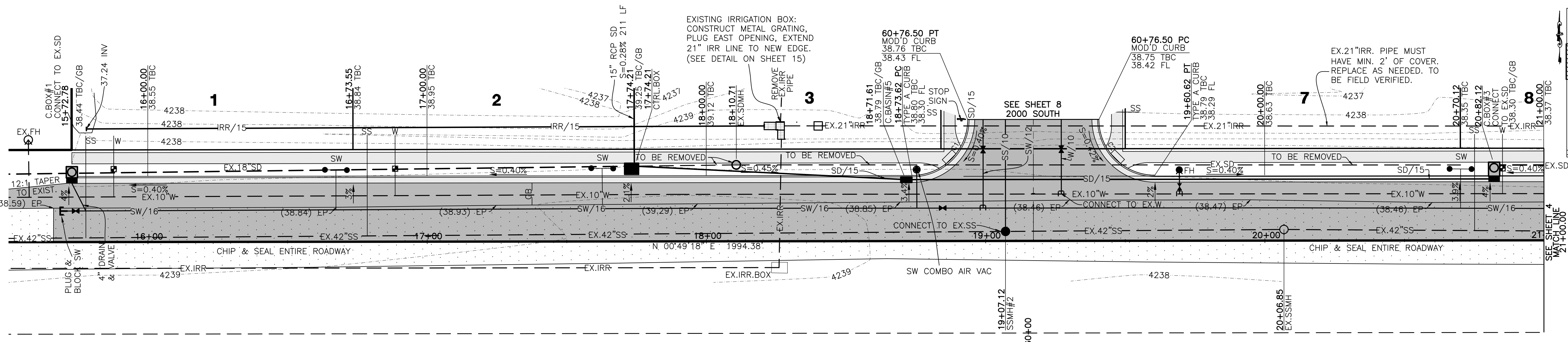
Sunset Equestrian Cluster Subdivision Phase 1
WEBER COUNTY, UTAH
Notes/Legend/ Street Cross-Section

REGISTERED PROFESSIONAL ENGINEER
J. NATE REEVE
0765328
05/25/2016
STATE OF UTAH

Project Info.

Engineer: J. NATE REEVE, P.E.
 Drafter: C. KINGSLEY
 Begin Date: SEPTEMBER 2017
 Name: SUNSET EQUESTRIAN CLUSTER SUBDIVISION PHASE 1
 Number: 5336-05

Sheet	15
2	Sheets



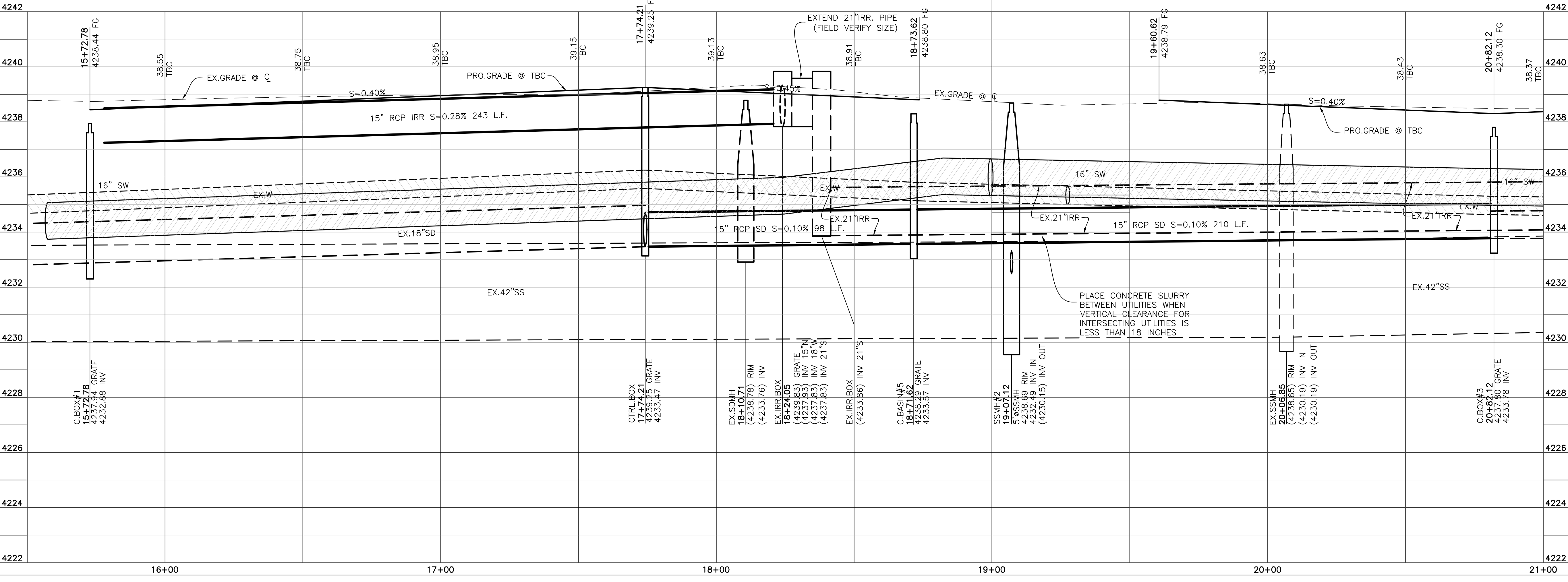
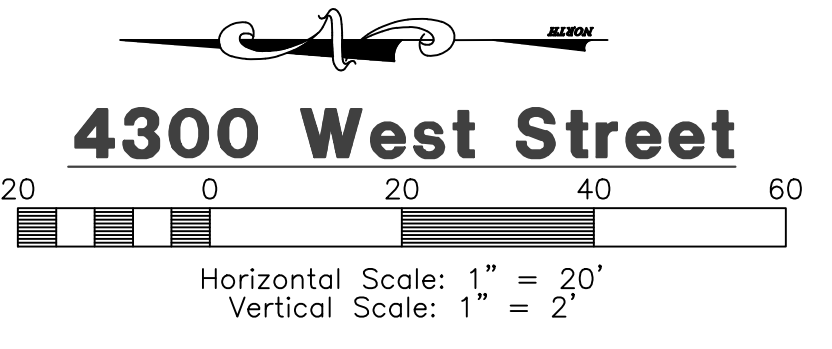
Construction Notes:

1. ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY. CONSTRUCT HANDICAP RAMP PER ADA AND CITY REQUIREMENTS.
2. ALL CULINARY WATER LINE CONSTRUCTION SHALL MEET THE STANDARDS OF THE TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT. TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO ANY PRECONSTRUCTION MEETINGS AND OR THE COMMENCEMENT OF ANY CONSTRUCTION. (801) 731-1668
3. ALL RCP INSTALLED TO BE BEDDED WITH GRAVEL & HAVE OPEN JOINTS.

- CULINARY WATER**
 W - 1" HDPE 200 PSI CTS
 W/10 - 10" PVC C-900 WATER
 FH - 5" MUELLER OR EQUIVALENT FIRE HYDRANT
- SANITARY SEWER**
 SS - 4" PVC SDR-35 SEWER LATERAL
 SS/10 - 10" PVC SDR-35 SEWER LINE
- STORM DRAIN**
 SD/12 - 12" RCP STORM DRAIN
 SD/15 - 15" RCP STORM DRAIN
 SD/18 - 18" RCP STORM DRAIN
 SD/21 - 21" RCP STORM DRAIN
 SD/24 - 24" RCP STORM DRAIN
- SECONDARY WATER**
 SW/1 - 1" POLY CTS LATERAL
 SW/2 - 2" POLY CTS LATERAL
 SW/8 - 8" PVC C-900 SW LINE
 SW/12 - 12" PVC C-900 SW LINE
 SW/16 - 16" PVC C-900 SW LINE
- IRRIGATION**
 IRR/15 - 15" RCP IRRIGATION PIPE
 IRR/18 - 18" RCP IRRIGATION PIPE
 IRR/21 - 21" RCP IRRIGATION PIPE
 IRR/24 - 24" RCP IRRIGATION PIPE

TBC Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C1	90°00'00"	20.00'	31.42'	20.00'	S44°10'40"E	28.28'
C2	90°00'00"	20.00'	31.42'	20.00'	S45°49'20"W	28.28'



Blue Stakes Location Center
Call: Toll Free 1-800-662-4111
 Two Working Days Before You Dig

Reeve & Associates, Inc.
 5160 SOUTH 1500 WEST RIVERDALE, UTAH 84405
 TEL: (801) 621-1000 FAX: (801) 621-1666 www.reeve-assoc.com
 LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
 TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
01/17/18	CK County Comments
03/22/18	CK County Comments
04/03/18	CK County Comments
04/20/18	EF County & Irrigation
05/24/18	EF Irrigation Revision

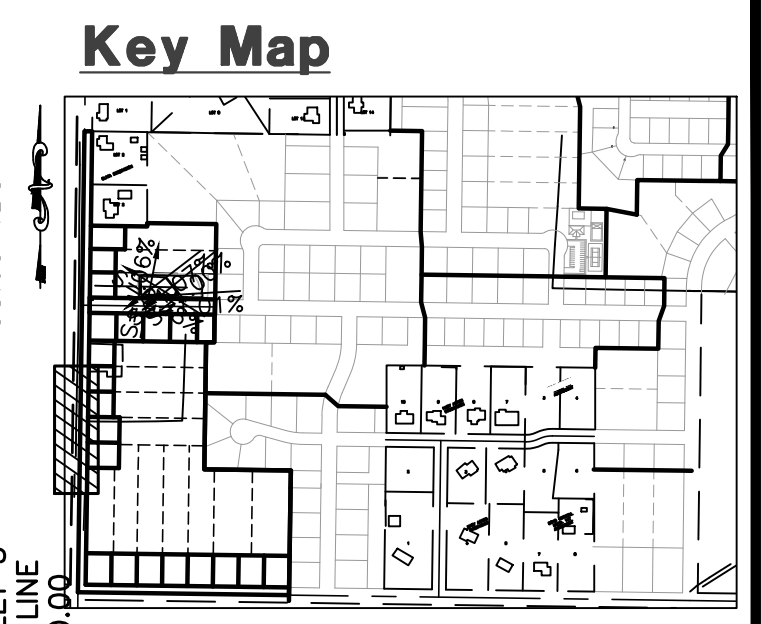
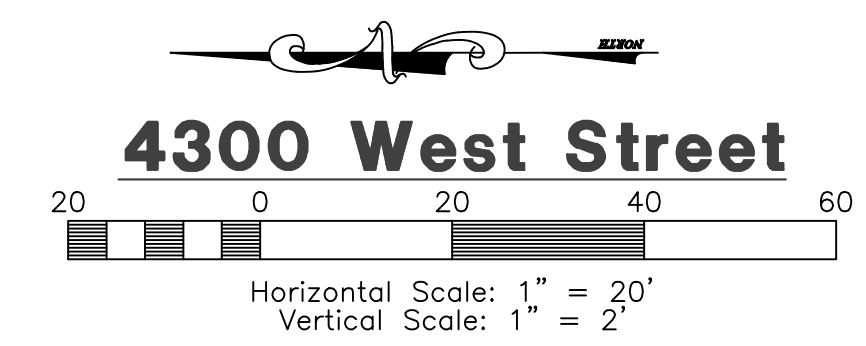
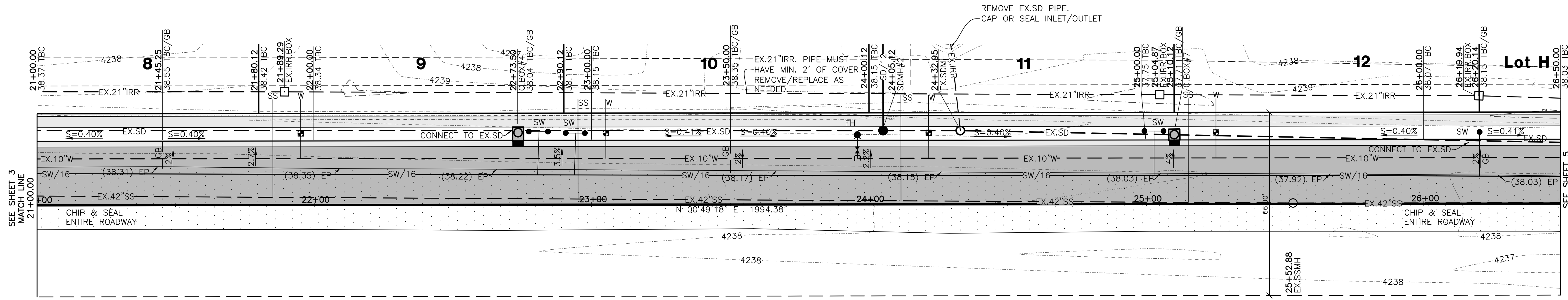
Sunset Equestrian Cluster Subdivision
Phase 1
 WEBER COUNTY, UTAH

4300 West Street
15+50.00 - 21+00.00



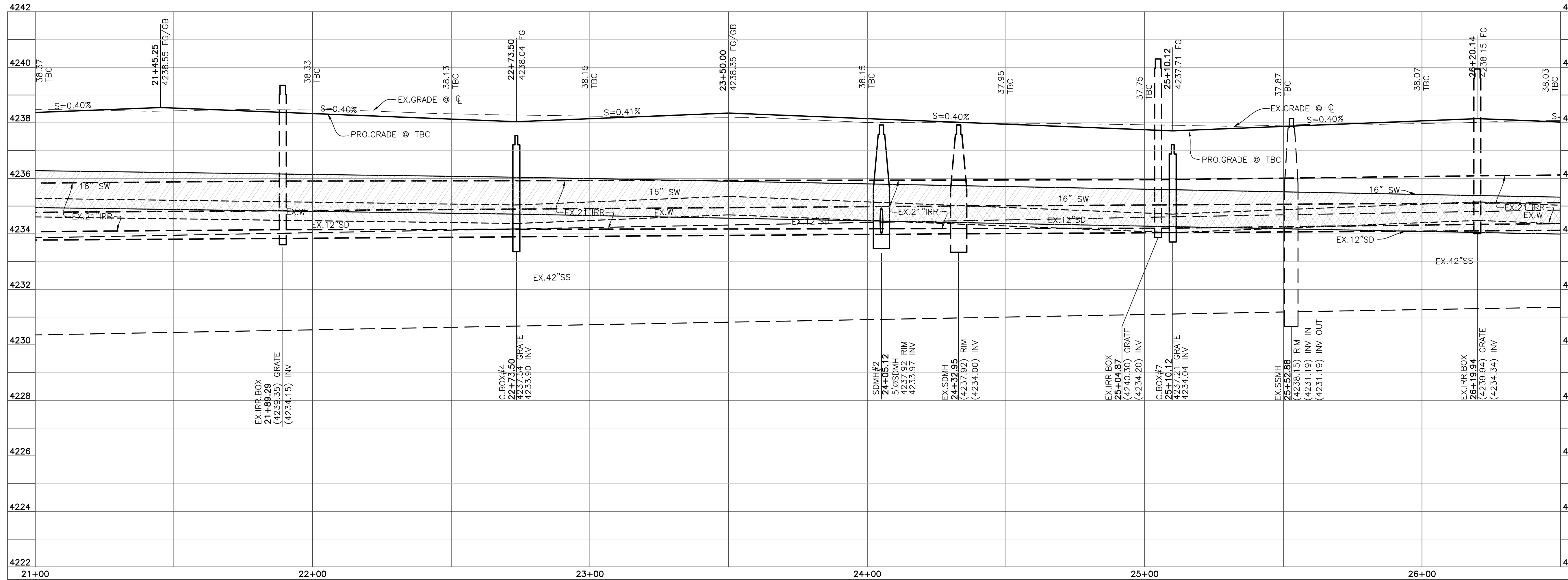
Project Info.
 Engineer: J. NATE REEVE, P.E.
 Drafter: C. KINGSLEY
 Begin Date: SEPTEMBER 2017
 Name: SUNSET EQUESTRIAN CLUSTER SUBDIVISION PHASE 1
 Number: 5336-05

5/25/2018 J. Fisher | G:\5336\05 - Saddleback Village - Weber County\05\Improvements\Sunset Eq P1 Imp.dwg



- Construction Notes:**
- ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY.
 - CONSTRUCT HANDICAP RAMP PER ADA AND CITY REQUIREMENTS.
 - ALL CULINARY WATER LINE CONSTRUCTION SHALL MEET THE STANDARDS OF THE TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT. TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO ANY PRECONSTRUCTION MEETINGS AND OR THE COMMENCEMENT OF ANY CONSTRUCTION. (801) 731-1668
 - ALL RCP INSTALLED TO BE BEDDED WITH GRAVEL & HAVE OPEN JOINTS.

- CULINARY WATER**
 W - 1" HDPE 200 PSI CTS
 W/10 - 10" PVC C-900 WATER
 FH - 5" MUELLER OR EQUIVALENT FIRE HYDRANT
- SANITARY SEWER**
 SS - 4" PVC SDR-35 SEWER LATERAL
 SS/10 - 10" PVC SDR-35 SEWER LINE
- STORM DRAIN**
 SD/12 - 12" RCP STORM DRAIN
 SD/15 - 15" RCP STORM DRAIN
 SD/18 - 18" RCP STORM DRAIN
 SD/21 - 21" RCP STORM DRAIN
 SD/24 - 24" RCP STORM DRAIN
- SECONDARY WATER**
 SW/1 - 1" POLY CTS LATERAL
 SW/2 - 2" POLY CTS LATERAL
 SW/8 - 8" PVC C-900 SW LINE
 SW/12 - 12" PVC C-900 SW LINE
 SW/16 - 16" PVC C-900 SW LINE
- IRRIGATION**
 IRR/15 - 15" RCP IRRIGATION PIPE
 IRR/18 - 18" RCP IRRIGATION PIPE
 IRR/21 - 21" RCP IRRIGATION PIPE
 IRR/24 - 24" RCP IRRIGATION PIPE



Blue Stakes Location Center
Call: Toll Free
1-800-662-4111
 Two Working Days Before You Dig

Reeve & Associates, Inc.
 5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405
 TEL: (801) 621-1000 FAX: (801) 621-1666 www.reeve-assoc.com
 LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
 TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

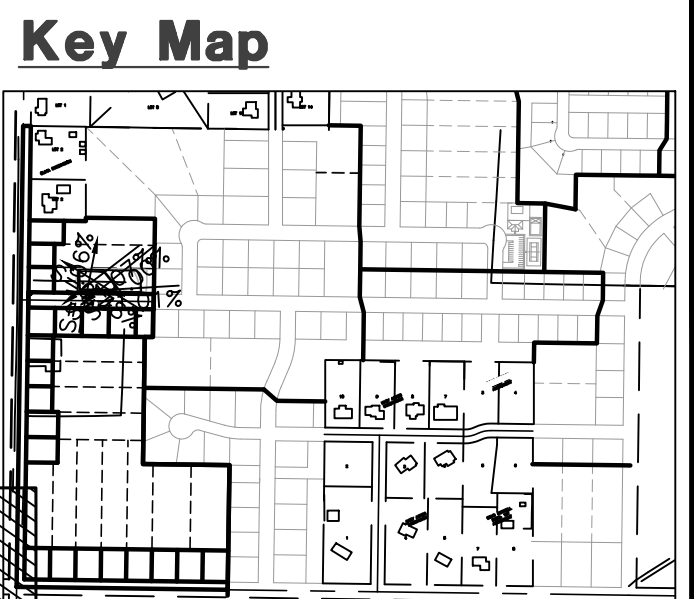
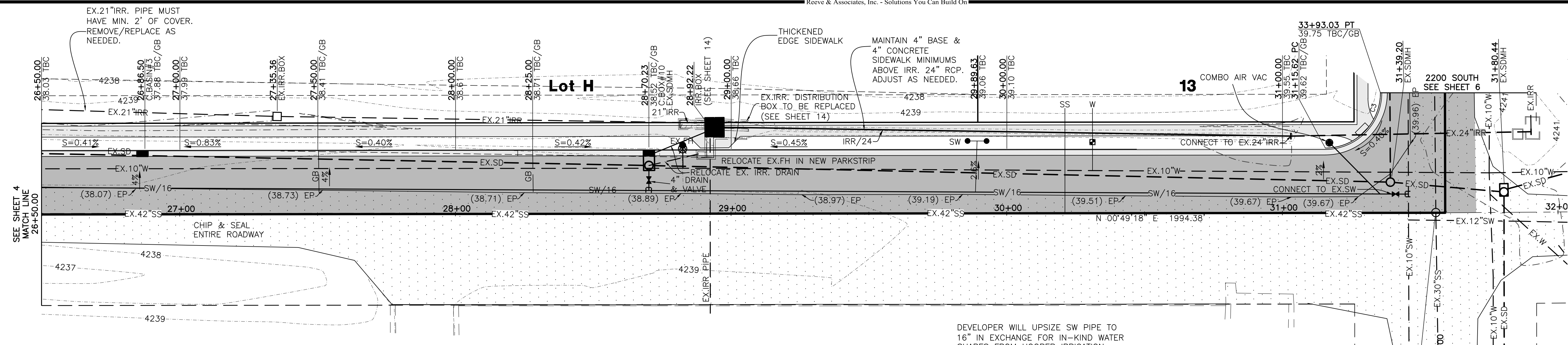
DATE	DESCRIPTION
01/17/18	CK County Comments
03/22/18	CK County Comments
04/03/18	CK County Comments
04/20/18	EF County & Irrigation
05/24/18	EF Irrigation Revision

Sunset Equestrian Cluster Subdivision
Phase 1
 WEBER COUNTY, UTAH
4300 West Street
21+00.00 - 26+50.00



Project Info.

Engineer: J. NATE REEVE, P.E.
 Drafter: C. KINGSLEY
 Begin Date: SEPTEMBER 2017
 Name: SUNSET EQUESTRIAN CLUSTER SUBDIVISION PHASE 1
 Number: 5336-05

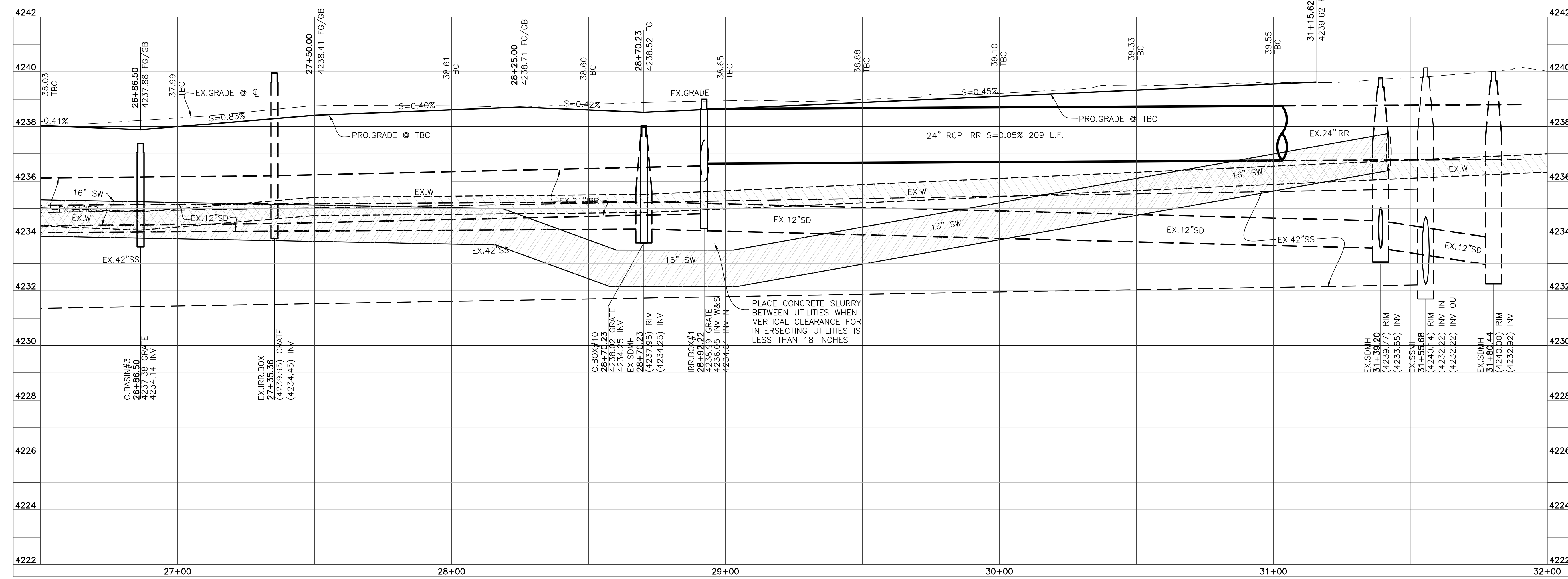
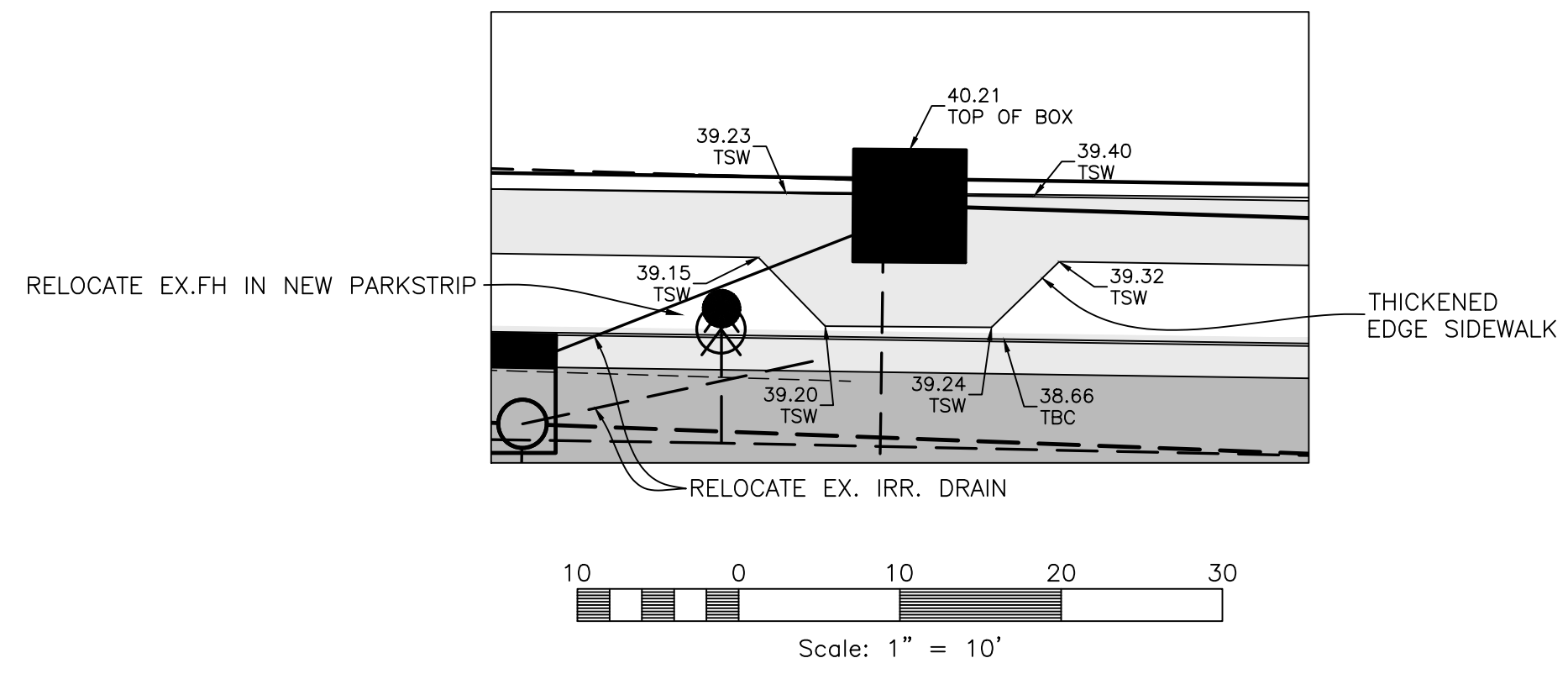
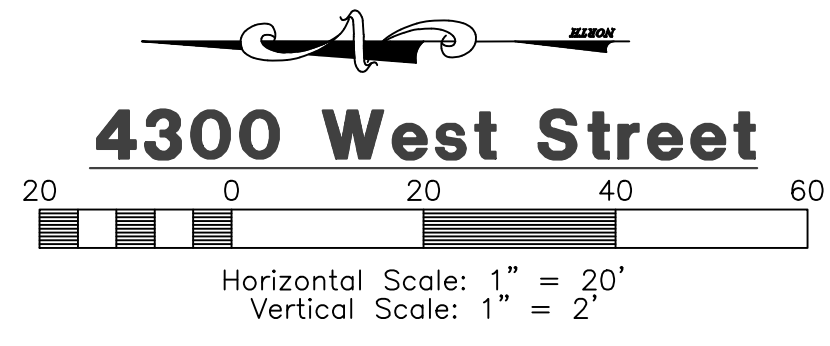


- Construction Notes:**
- ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY. CONSTRUCT HANDICAP RAMP PER ADA AND CITY REQUIREMENTS.
 - ALL CULINARY WATER LINE CONSTRUCTION SHALL MEET THE STANDARDS OF THE TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT. TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO ANY PRECONSTRUCTION MEETINGS AND OR THE COMMENCEMENT OF ANY CONSTRUCTION. (801) 731-1668
 - ALL RCP INSTALLED TO BE BEDDED WITH GRAVEL & HAVE OPEN JOINTS.

- CULINARY WATER**
 W - 1" HDPE 200 PSI CTS
 W/10 - 10" PVC C-900 WATER
 FH - 5" MUELLER OR EQUIVALENT FIRE HYDRANT
- SANITARY SEWER**
 SS - 4" PVC SDR-35 SEWER LATERAL
 SS/10 - 10" PVC SDR-35 SEWER LINE
- STORM DRAIN**
 SD/12 - 12" RCP STORM DRAIN
 SD/15 - 15" RCP STORM DRAIN
 SD/18 - 18" RCP STORM DRAIN
 SD/21 - 21" RCP STORM DRAIN
 SD/24 - 24" RCP STORM DRAIN
- SECONDARY WATER**
 SW/1 - 1" POLY CTS LATERAL
 SW/2 - 2" POLY CTS LATERAL
 SW/8 - 8" PVC C-900 SW LINE
 SW/12 - 12" PVC C-900 SW LINE
 SW/16 - 16" PVC C-900 SW LINE
- IRRIGATION**
 IRR/15 - 15" RCP IRRIGATION PIPE
 IRR/18 - 18" RCP IRRIGATION PIPE
 IRR/21 - 21" RCP IRRIGATION PIPE
 IRR/24 - 24" RCP IRRIGATION PIPE

TBC Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C3	90°02'34"	20.00'	31.43'	20.01'	S44°11'57"E	28.29'



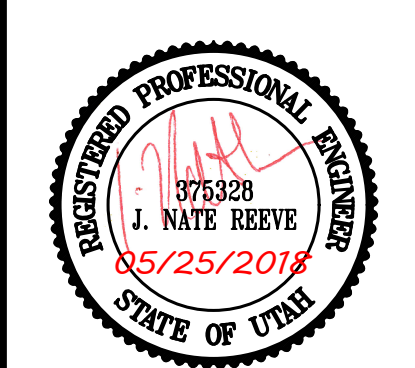
Blue Stakes Location Center
Call: Toll Free
1-800-662-4111
 Two Working Days Before You Dig

Reeve & Associates, Inc.
 5160 SOUTH 1500 WEST RIVERDALE, UTAH 84405
 TEL: (801) 821-3100 FAX: (801) 621-2666 WWW.REEVE-ASSOC.COM
 LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
 TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

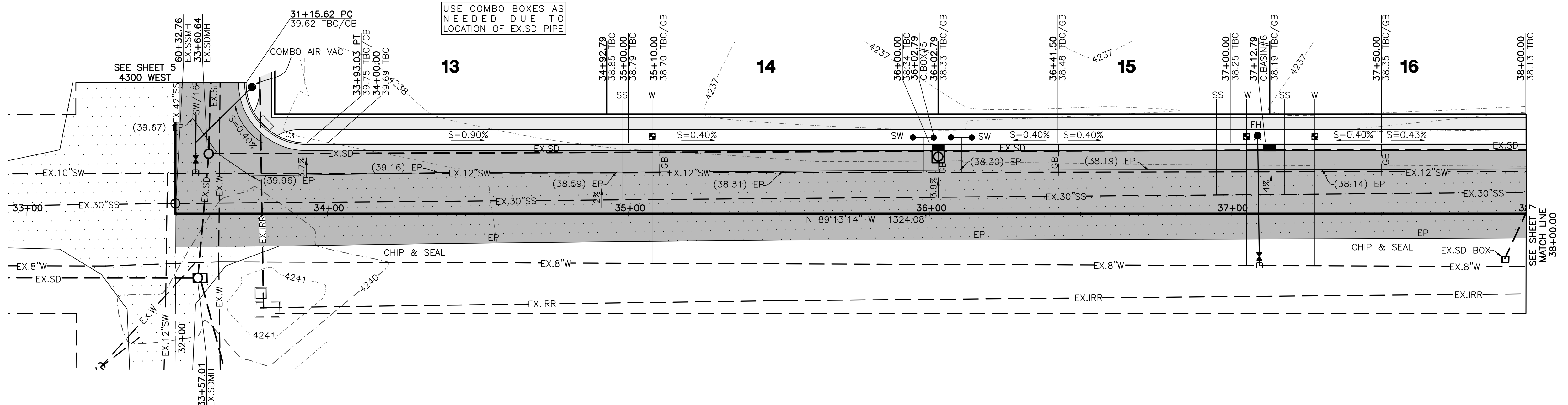
REVISIONS

DATE	DESCRIPTION
01/17/18 CK	County Comments
03/22/18 CK	County Comments
04/03/18 CK	County Comments
04/20/18 EF	County & Irrigation
05/24/18 EF	Irrigation Revision

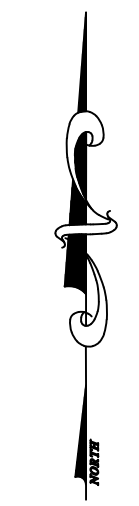
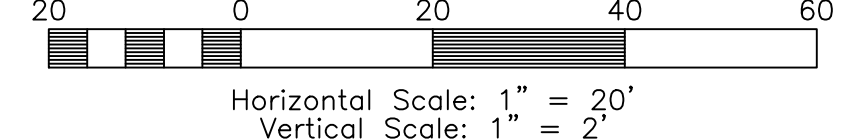
Sunset Equestrian Cluster Subdivision
Phase 1
 WEBER COUNTY, UTAH
4300 West Street
26+50.00 - 32+00.00



Project Info.
 Engineer: J. NATE REEVE, P.E.
 Drafter: C. KINGSLEY
 Begin Date: SEPTEMBER 2017
 Name: SUNSET EQUESTRIAN CLUSTER SUBDIVISION PHASE 1
 Number: 5336-05



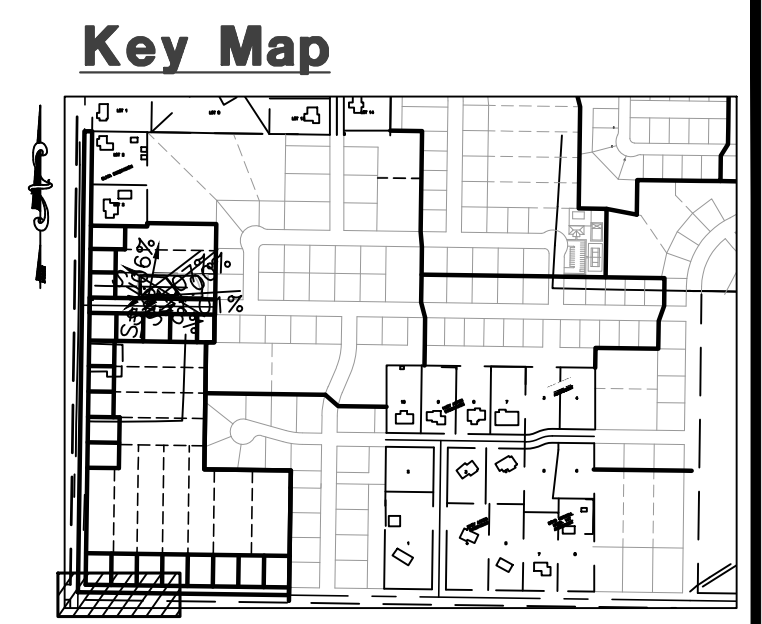
2200 South Street



USE COMBO BOXES AS NEEDED DUE TO LOCATION OF EX.SD PIPE

TBC Curve Data

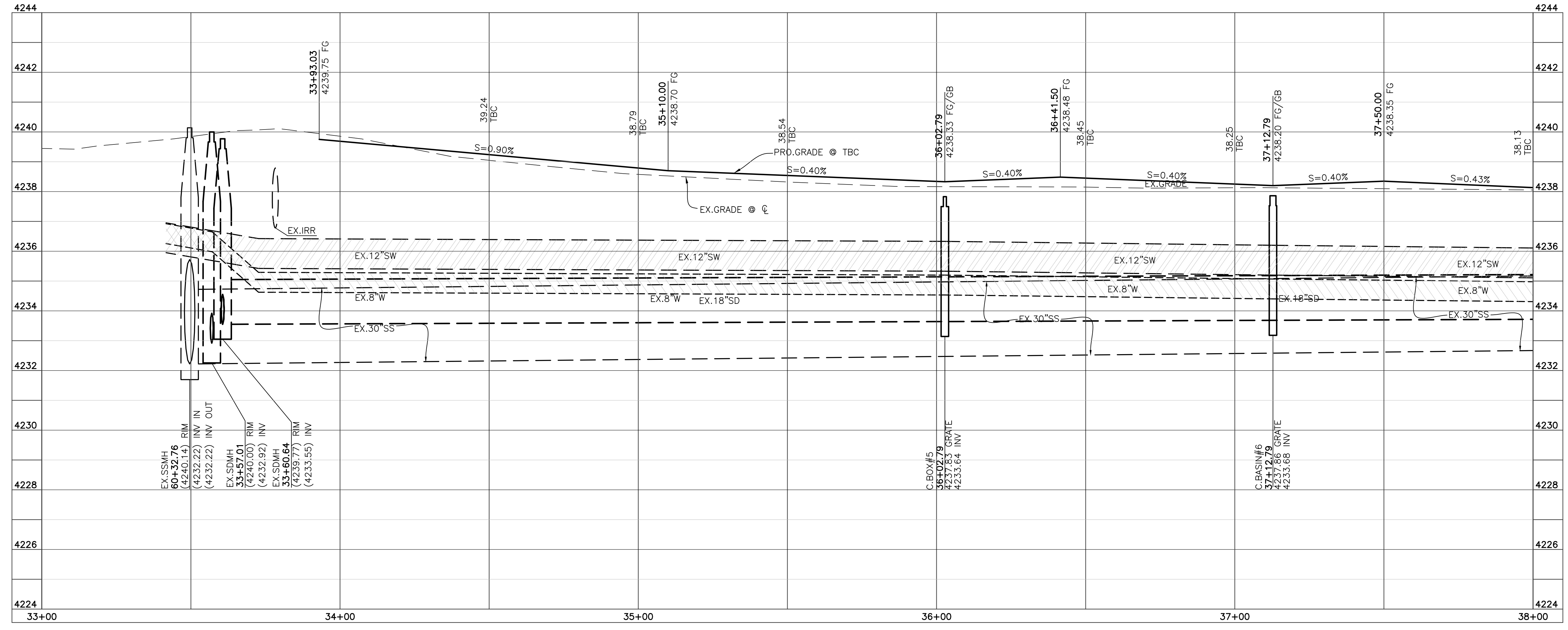
#	Delta	Radius	Length	Tangent	Chord	CH Length
C3	90°02'34"	20.00'	31.43'	20.01'	S44°11'57"E	28.29'



Construction Notes:

1. ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY.
2. CONSTRUCT HANDICAP RAMP PER ADA AND CITY REQUIREMENTS.
3. ALL CULINARY WATER LINE CONSTRUCTION SHALL MEET THE STANDARDS OF THE TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT.
4. TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO ANY PRECONSTRUCTION MEETINGS AND OR THE COMMENCEMENT OF ANY CONSTRUCTION. (801) 731-1668
5. ALL RCP INSTALLED TO BE BEDDED WITH GRAVEL & HAVE OPEN JOINTS.

- CULINARY WATER**
 W - 1" HDPE 200 PSI CTS
 W/10 - 10" PVC C-900 WATER
 FH - 5" MUELLER OR EQUIVALENT FIRE HYDRANT
- SANITARY SEWER**
 SS - 4" PVC SDR-35 SEWER LATERAL
 SS/10 - 10" PVC SDR-35 SEWER LINE
- STORM DRAIN**
 SD/12 - 12" RCP STORM DRAIN
 SD/15 - 15" RCP STORM DRAIN
 SD/18 - 18" RCP STORM DRAIN
 SD/21 - 21" RCP STORM DRAIN
 SD/24 - 24" RCP STORM DRAIN
- SECONDARY WATER**
 SW/1 - 1" POLY CTS LATERAL
 SW/2 - 2" POLY CTS LATERAL
 SW/8 - 8" PVC C-900 SW LINE
 SW/12 - 12" PVC C-900 SW LINE
 SW/16 - 16" PVC C-900 SW LINE
- IRRIGATION**
 IRR/15 - 15" RCP IRRIGATION PIPE
 IRR/18 - 18" RCP IRRIGATION PIPE
 IRR/21 - 21" RCP IRRIGATION PIPE
 IRR/24 - 24" RCP IRRIGATION PIPE



Blue Stakes Location Center
Call: Toll Free
1-800-662-4111
 Two Working Days Before You Dig

Reeve & Associates, Inc.
 5160 SOUTH 1500 WEST RIVERDALE, UTAH 84405
 LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
 TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
01/17/18	CK County Comments
03/22/18	CK County Comments
04/03/18	CK County Comments
04/20/18	EF County & Irrigation
05/24/18	EF Irrigation Revision

Sunset Equestrian Cluster Subdivision
Phase 1
 WEBER COUNTY, UTAH

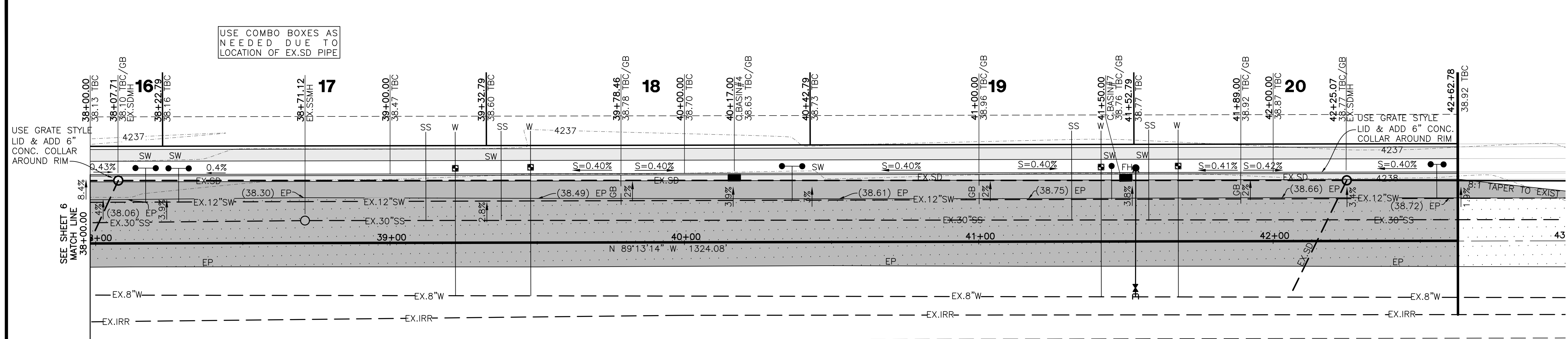
2200 South Street
33+00.00 - 38+00.00



Project Info.
 Engineer: J. NATE REEVE, P.E.
 Drafter: C. KINGSLEY
 Begin Date: SEPTEMBER 2017
 Name: SUNSET EQUESTRIAN CLUSTER SUBDIVISION PHASE 1
 Number: 5336-05

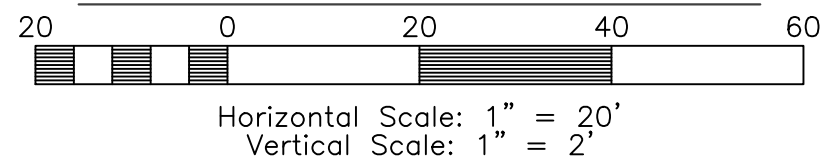
Sheet **15**
6 Sheets

5/25/2018 | efisher | G:\5336\05 - Saddleback Village, Weber County\05\improvements\Sunset Eq P1 Imp.dwg

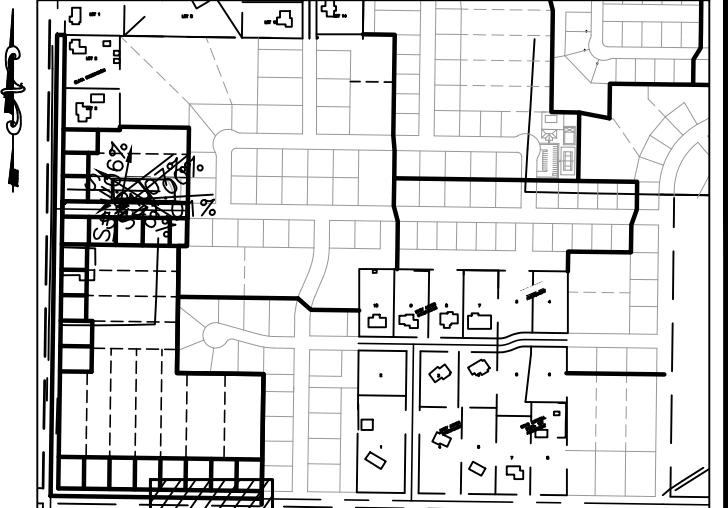


USE COMBO BOXES AS
NEEDED DUE TO
LOCATION OF EX.SD PIPE

2200 South Street



Key Map



Construction Notes:

- ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY.
- CONSTRUCT HANDICAP RAMP PER ADA AND CITY REQUIREMENTS.
- ALL CULINARY WATER LINE CONSTRUCTION SHALL MEET THE STANDARDS OF THE TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT.
- TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO ANY PRECONSTRUCTION MEETINGS AND OR THE COMMENCEMENT OF ANY CONSTRUCTION. (801) 731-1668
- ALL RCP INSTALLED TO BE BEDDED WITH GRAVEL & HAVE OPEN JOINTS.

- CULINARY WATER**
 W - 1" HDPE 200 PSI CTS
 W/10 - 10" PVC C-900 WATER
 FH - 5" MUELLER OR EQUIVALENT FIRE HYDRANT
- SANITARY SEWER**
 SS - 4" PVC SDR-35 SEWER LATERAL
 SS/10 - 10" PVC SDR-35 SEWER LINE
- STORM DRAIN**
 SD/12 - 12" RCP STORM DRAIN
 SD/15 - 15" RCP STORM DRAIN
 SD/18 - 18" RCP STORM DRAIN
 SD/21 - 21" RCP STORM DRAIN
 SD/24 - 24" RCP STORM DRAIN

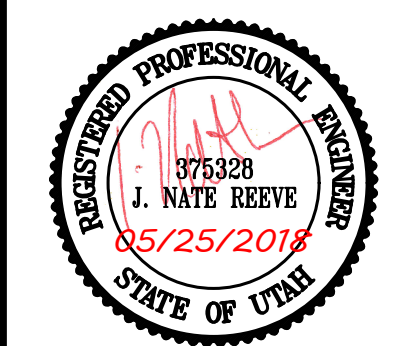
- SECONDARY WATER**
 SW/1 - 1" POLY CTS LATERAL
 SW/2 - 2" POLY CTS LATERAL
 SW/8 - 8" PVC C-900 SW LINE
 SW/12 - 12" PVC C-900 SW LINE
 SW/16 - 16" PVC C-900 SW LINE
- IRRIGATION**
 IRR/15 - 15" RCP IRRIGATION PIPE
 IRR/18 - 18" RCP IRRIGATION PIPE
 IRR/21 - 21" RCP IRRIGATION PIPE
 IRR/24 - 24" RCP IRRIGATION PIPE

Reeve & Associates, Inc.
 5160 SOUTH 1500 WEST RIVERDALE, UTAH 84405
 TEL: (801) 821-2100 FAX: (801) 821-2666 www.reeve-assoc.com
 LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
 TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

DATE	DESCRIPTION
01/17/18	CK County Comments
03/22/18	CK County Comments
04/03/18	CK County Comments
04/20/18	EF County & Irrigation
05/24/18	EF Irrigation Revision

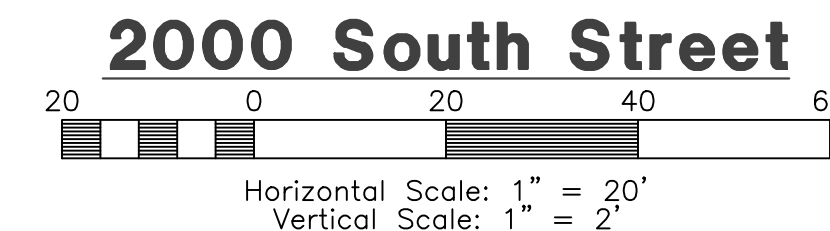
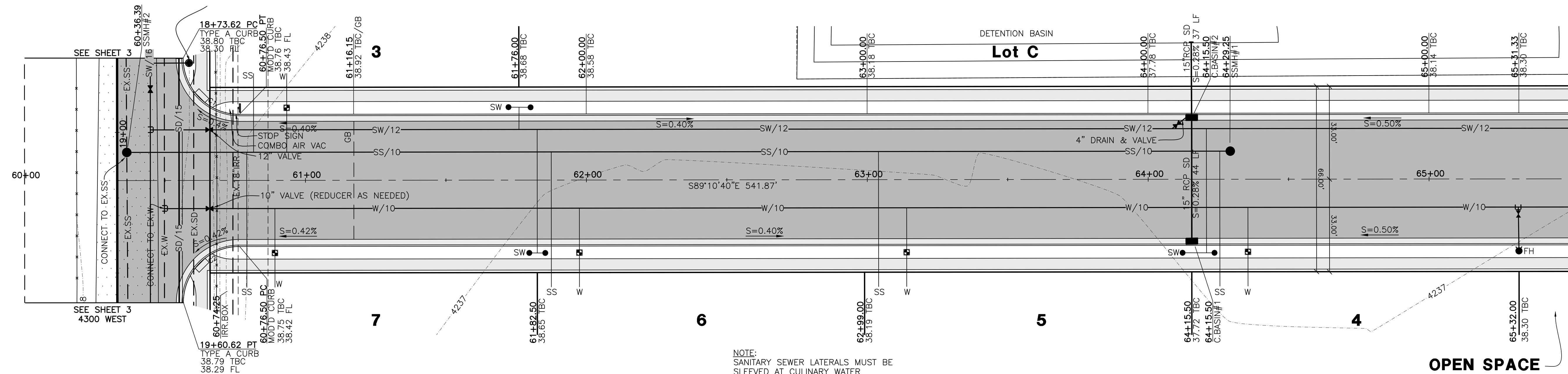
Sunset Equestrian Cluster Subdivision
Phase 1
 WEBER COUNTY, UTAH

2200 South Street
38+00.00 - 43+00.00



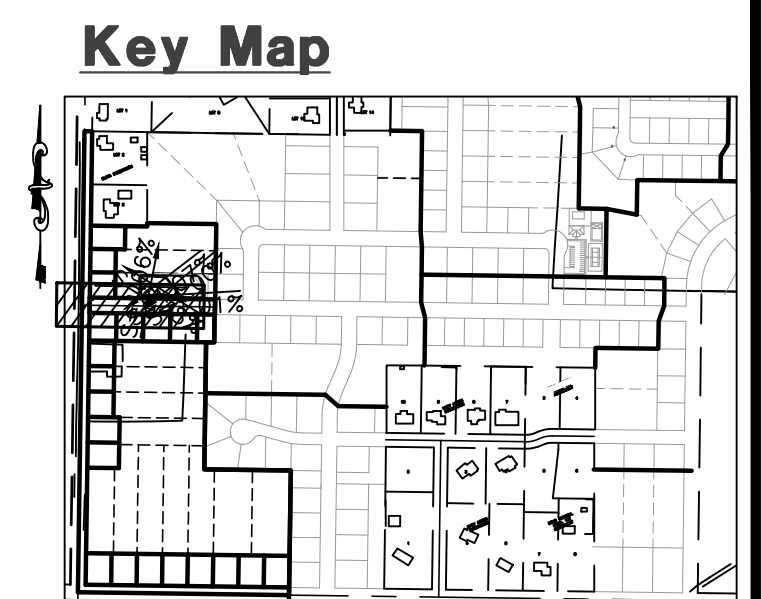
Project Info.
 Engineer: J. NATE REEVE, P.E.
 Drafter: C. KINGSLEY
 Begin Date: SEPTEMBER 2017
 Name: SUNSET EQUESTRIAN CLUSTER SUBDIVISION PHASE 1
 Number: 5336-05

Blue Stakes Location Center
Call: Toll Free
1-800-662-4111
 Two Working Days Before You Dig



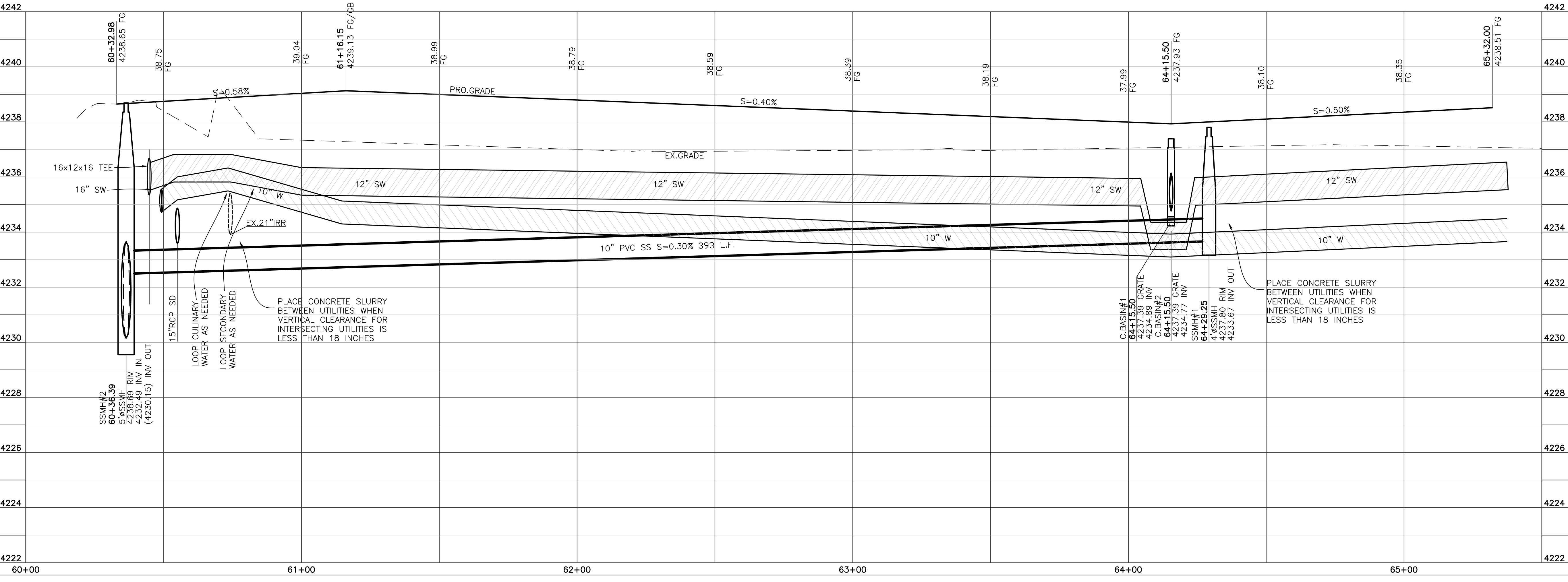
NOTE:
SANITARY SEWER LATERALS MUST BE SLEEVED AT CULINARY WATER CROSSINGS WHEN CLEARANCE IS LESS THAN 18\"/>

#	Delta	Radius	Length	Tangent	Chord	CH Length
C1	90°00'00"	20.00'	31.42'	20.00'	S44°10'40"E	28.28'
C2	90°00'00"	20.00'	31.42'	20.00'	S45°49'20"W	28.28'



- Construction Notes:**
- ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY. CONSTRUCT HANDICAP RAMP PER ADA AND CITY REQUIREMENTS.
 - ALL CULINARY WATER LINE CONSTRUCTION SHALL MEET THE STANDARDS OF THE TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT. TAYLOR-WEST WEBER WATER IMPROVEMENT DISTRICT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO ANY PRECONSTRUCTION MEETINGS AND OR THE COMMENCEMENT OF ANY CONSTRUCTION. (801) 731-1668
 - ALL RCP INSTALLED TO BE BEDDED WITH GRAVEL & HAVE OPEN JOINTS.

- CULINARY WATER**
 W - 1" HDPE 200 PSI CTS
 W/10 - 10" PVC C-900 WATER
 FH - 5" MUELLER OR EQUIVALENT FIRE HYDRANT
- SANITARY SEWER**
 SS - 4" PVC SDR-35 SEWER LATERAL
 SS/10 - 10" PVC SDR-35 SEWER LINE
- STORM DRAIN**
 SD/12 - 12" RCP STORM DRAIN
 SD/15 - 15" RCP STORM DRAIN
 SD/18 - 18" RCP STORM DRAIN
 SD/21 - 21" RCP STORM DRAIN
 SD/24 - 24" RCP STORM DRAIN
- SECONDARY WATER**
 SW/1 - 1" POLY CTS LATERAL
 SW/2 - 2" POLY CTS LATERAL
 SW/8 - 8" PVC C-900 SW LINE
 SW/12 - 12" PVC C-900 SW LINE
 SW/16 - 16" PVC C-900 SW LINE
- IRRIGATION**
 IRR/15 - 15" RCP IRRIGATION PIPE
 IRR/18 - 18" RCP IRRIGATION PIPE
 IRR/21 - 21" RCP IRRIGATION PIPE
 IRR/24 - 24" RCP IRRIGATION PIPE



PLACE CONCRETE SLURRY BETWEEN UTILITIES WHEN VERTICAL CLEARANCE FOR INTERSECTING UTILITIES IS LESS THAN 18 INCHES

Blue Stakes Location Center
Call: Toll Free 1-800-662-4111
 Two Working Days Before You Dig

Reeve & Associates, Inc.
IRA

REVISIONS

DATE	DESCRIPTION
01/17/18	CK County Comments
03/22/18	CK County Comments
04/03/18	CK County Comments
04/20/18	EF County & Irrigation
05/24/18	EF Irrigation Revision

Sunset Equestrian Cluster Subdivision
Phase 1
 WEBER COUNTY, UTAH

2000 South Street
60+00.00 - 65+50.00



Project Info.
 Engineer: J. NATE REEVE, P.E.
 Drafter: C. KINGSLEY
 Begin Date: SEPTEMBER 2017
 Name: SUNSET EQUESTRIAN CLUSTER SUBDIVISION PHASE 1
 Number: 5336-05

Storm Runoff Calculations

Sunset Equestrian Phase 1 - Taylor, UT
3/28/2018 EF 5336-05

The following runoff calculations are based on the Rainfall - Intensity - Duration Frequency Curve for Pleasant View, UT area taken from the NOAA Atlas 14 database, using a 100 year storm 24 hour storm for detention. Storm water runoff has been calculated for completed site conditions.

The calculations are as follows:

1. Drainage Area:

Total Area =	22.08 acre or	961981 ft ²
Runoff Coefficients		
Paved Area (ft ²)	98,300	C = 0.90
Landscaped Area (ft ²)	171,275	C = 0.20
Unimproved Area (ft ²)	672,406	C = 0.10
Roof/Hardscape Area (ft ²)	20,000	C = 0.90
Weighted Runoff Coefficient		
		C = 0.22

2. Volume of Run-off for 100-year 24-Hour Storm Event:

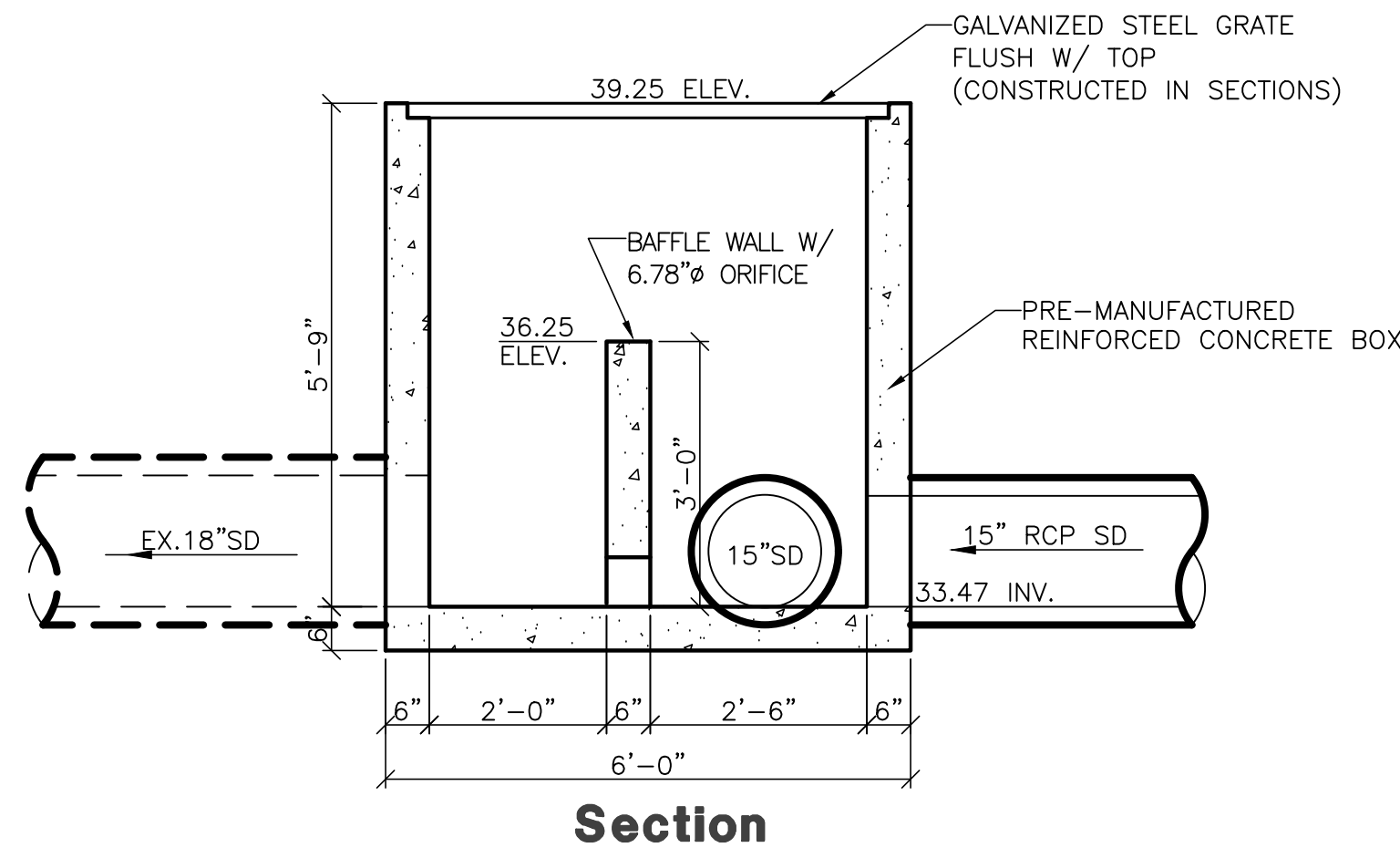
C = 0.22 Post-Development Allowed Flow: 0.1 cfs/acre
I = See Below in/hr
A = 961981 ft²
Q(out) = 2.21 ft³/s (based on allowed cfs/acre rate)

time (min)	time (sec)	i (in.)	i (in./hr)	Q (cfs)	Vol. in (cf)	Vol. out (cf)	Difference (cf)
0	0	0.00	0.00	0.00	0.00	0.00	0.00
5	300	0.54	6.52	31.37	9410.44	682.52	8747.92
10	600	0.83	4.96	23.86	14314.97	1325.04	12989.92
15	900	1.02	4.08	19.64	17677.08	1987.56	15689.51
30	1800	1.38	2.76	13.29	23916.05	3975.13	19940.92
60	3600	1.71	1.71	8.23	29635.10	7950.26	21684.84
120	7200	1.86	0.93	4.48	32234.67	15900.52	16334.15
180	10800	1.90	0.63	3.05	32927.89	23850.78	9077.11
360	21600	2.12	0.35	1.70	36740.59	47701.55	-10960.96
720	43200	2.60	0.22	1.04	45059.22	95403.10	-50343.89
1440	86400	2.88	0.12	0.58	49911.75	190806.21	-140894.46

3. Orifice Sizing

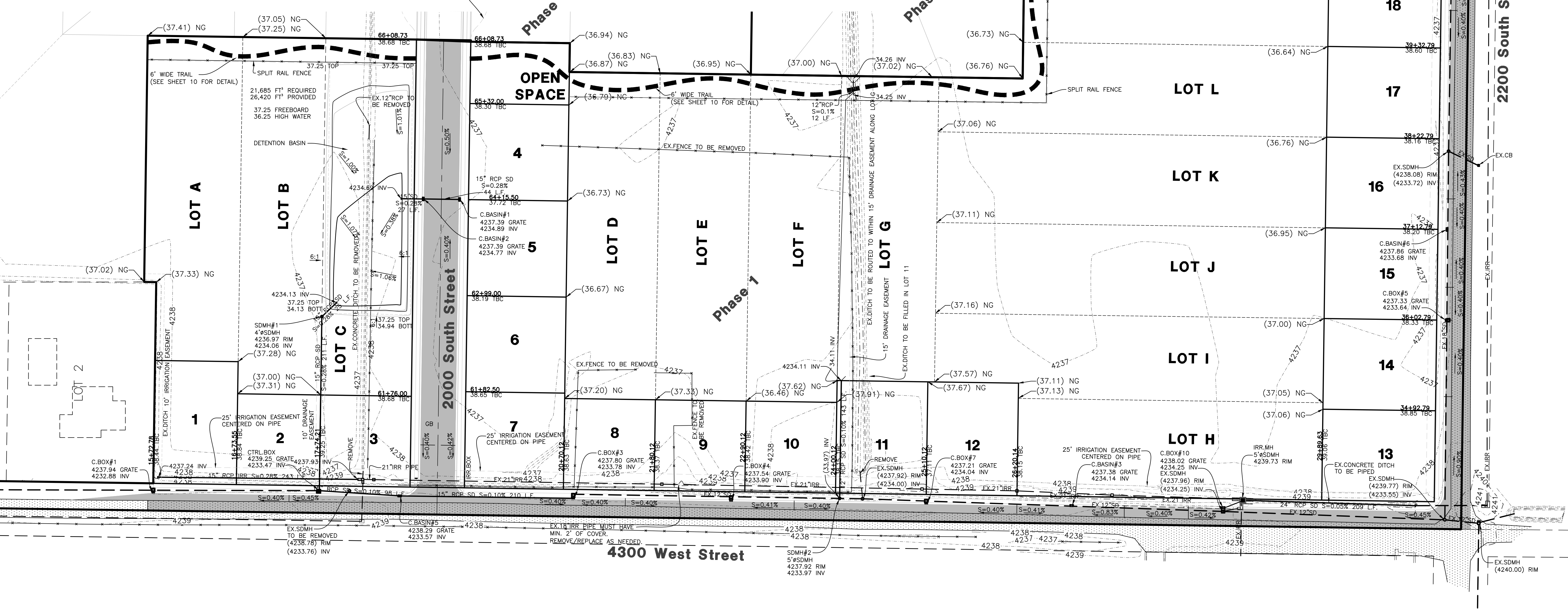
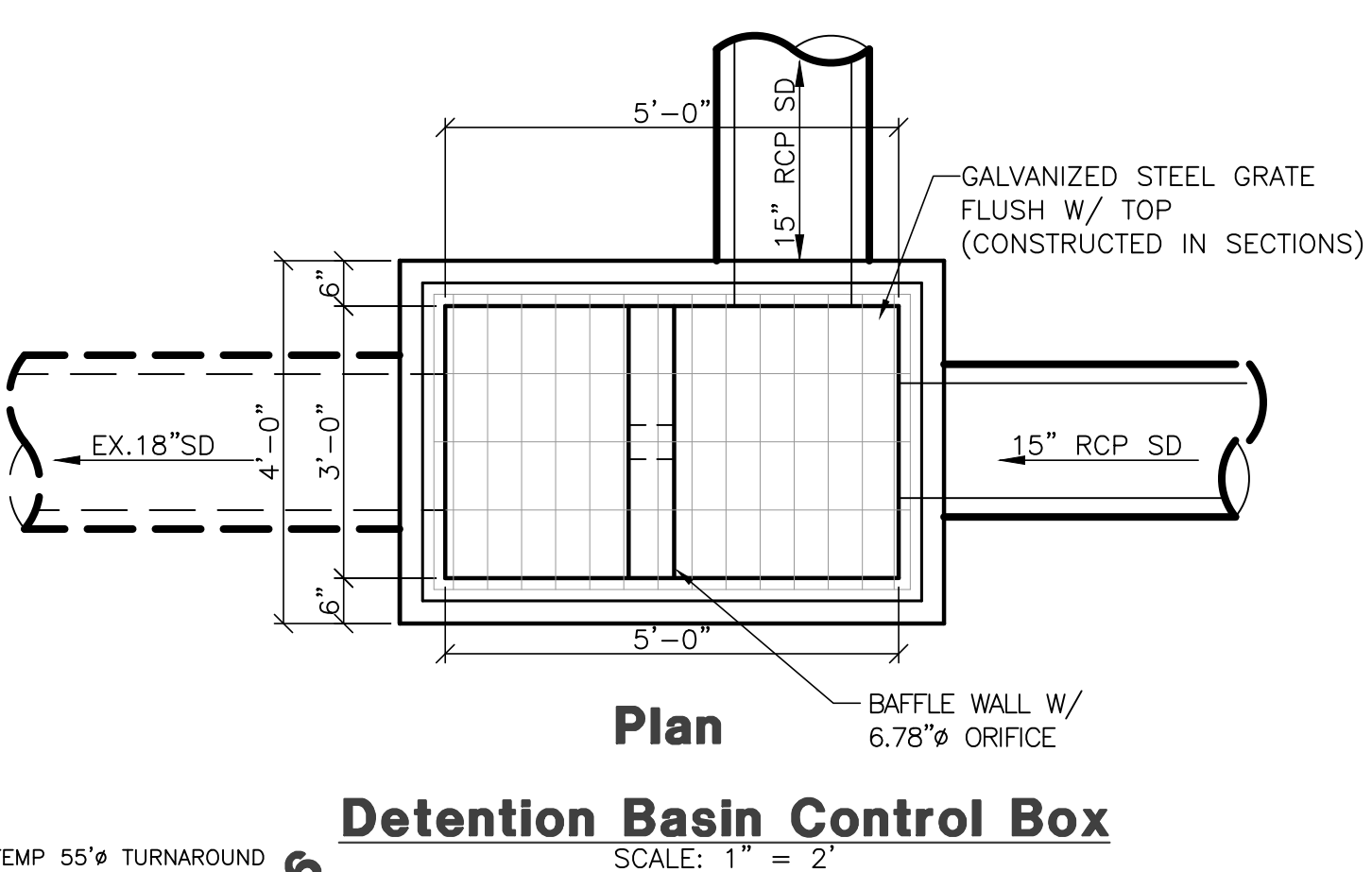
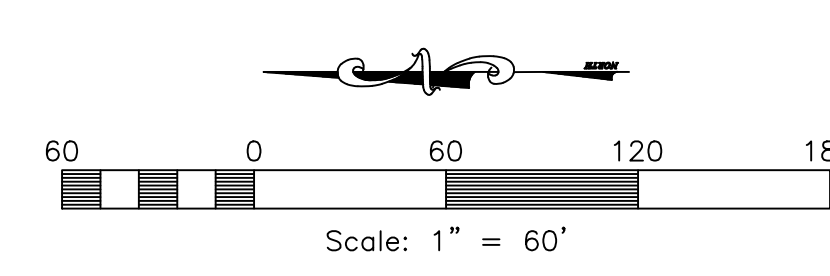
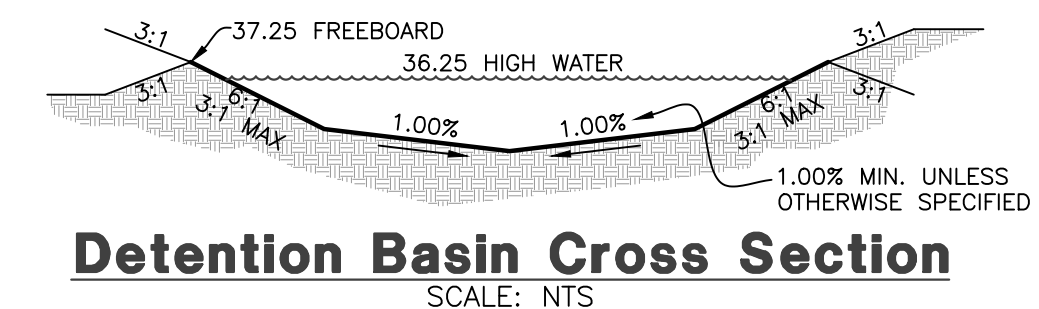
Given: Q = 2.21 cfs
2g = 64.4 ft/s²
H = 3.14 ft
Cd = 0.62 for circular openings
R = SQRT(Q/pi/(0.7*(64.4*H)^0.5))

R = 0.28 feet
D = 3.39 inches
A = 6.78 inches²
The required storage volume is **21,685 cubic feet**
Circular orifice diameter size is **6.78 inches**



STAGE STORAGE TABLE

ELEV	AREA (sq. ft.)	DEPT H (ft)	AVG END INC. VOL. (cu. ft.)	AVG END TOTAL VOL. (cu. ft.)	CONIC INC. VOL. (cu. ft.)	CONIC TOTAL VOL. (cu. ft.)
4,234.130	0.00	N/A	N/A	0.00	N/A	0.00
4,235.000	11,143.50	0.870	4847.42	4847.42	3231.68	3231.68
4,236.000	23,811.01	1.000	17477.25	22324.68	17081.24	20312.92
4,236.250	25,057.16	0.250	6108.52	28433.20	6107.86	26420.77
4,237.000	31,990.23	0.750	21392.77	49825.97	21339.91	47760.69



Reeve & Associates, Inc.
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
1510 SOUTH 1500 WEST RIVERDALE, UTAH 84405
TEL: (801) 921-3100 FAX: (801) 921-2666 WWW.REEVE-ASSOCIATES.COM

REVISIONS

DATE	DESCRIPTION
01/17/18	CK County Comments
03/22/18	CK County Comments
04/03/18	CK County Comments
04/20/18	EF County & Irrigation
05/24/18	EF Irrigation Revision

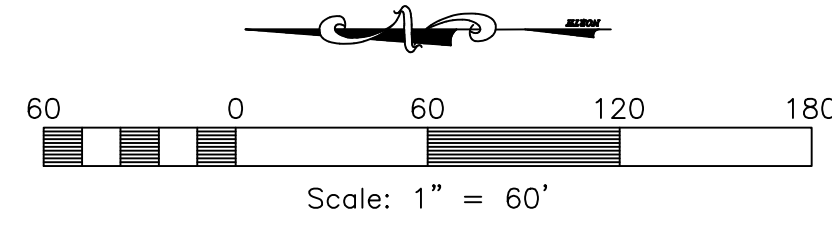
Sunset Equestrian Cluster Subdivision Phase 1
WEBER COUNTY, UTAH

Grading & Drainage Plan



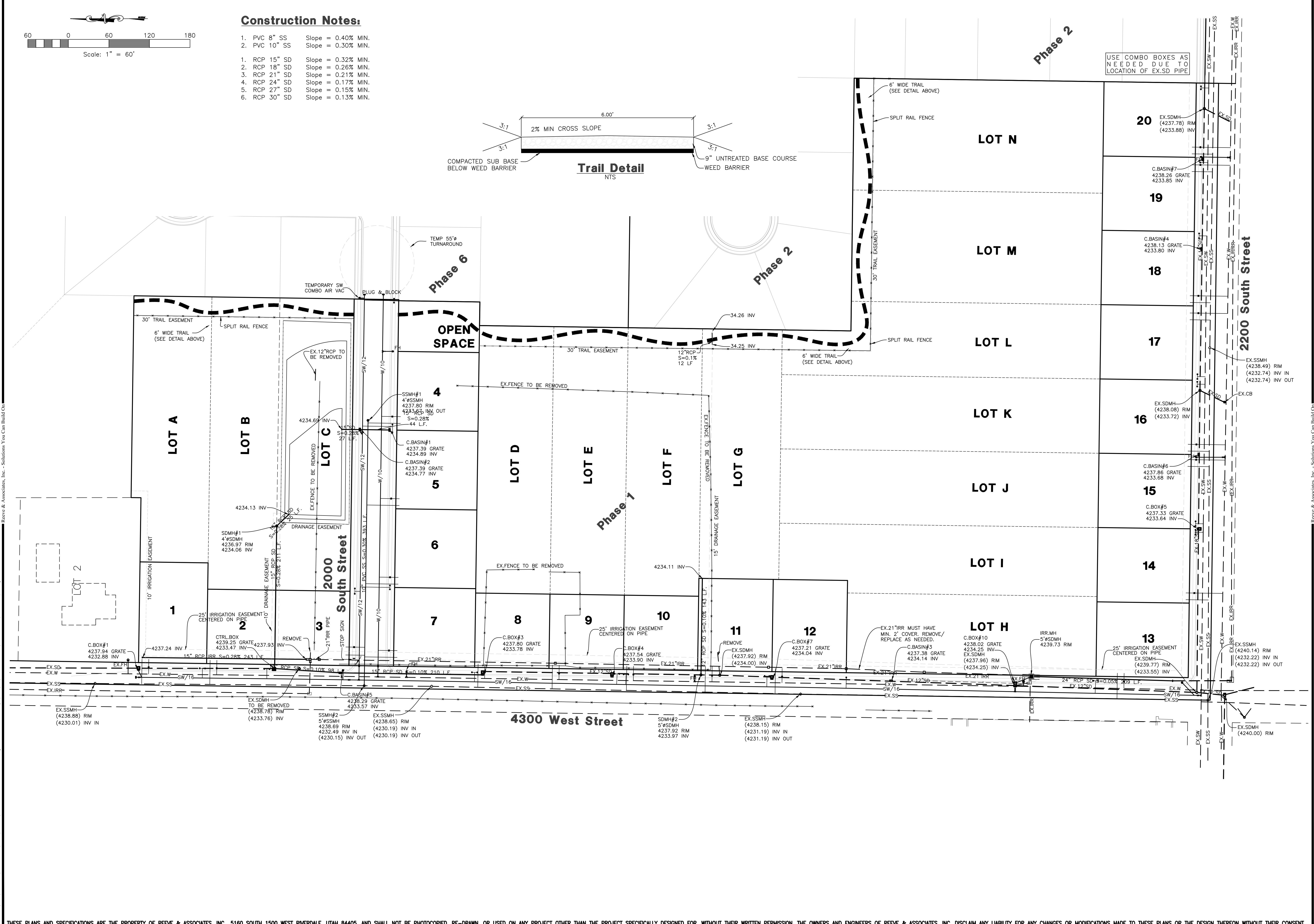
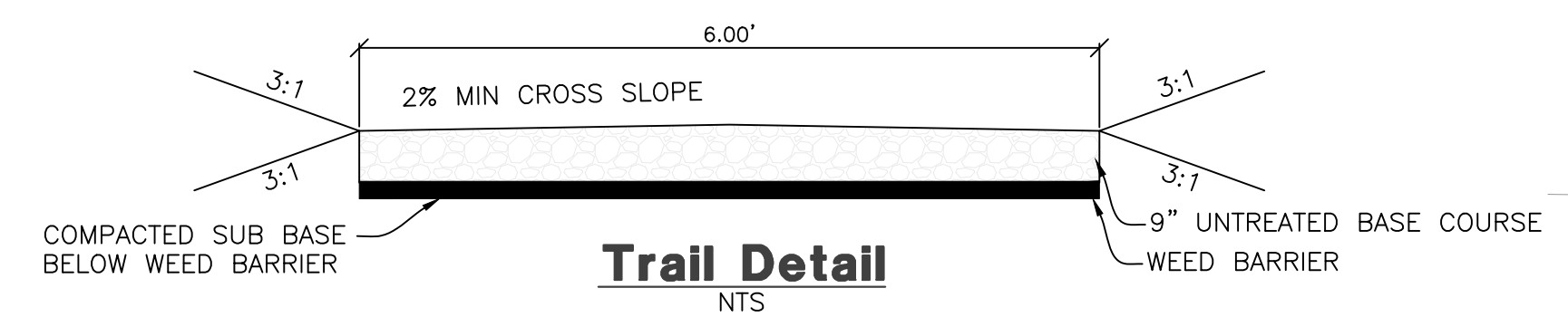
Project Info.
Engineer: J. NATE REEVE, P.E.
Drafted: C. KINGSLEY
Begin Date: SEPTEMBER 2017
Name: SUNSET EQUESTRIAN CLUSTER SUBDIVISION PHASE 1
Number: 5336-05

5/25/2018 1:51:58 PM G:\5336\05 - Saddieback Village, Weber County\GIS\improvements\Sunset Eq P1 Imp.dwg Reeve & Associates, Inc. - Solutions You Can Build On



Construction Notes:

- 1. PVC 8" SS Slope = 0.40% MIN.
- 2. PVC 10" SS Slope = 0.30% MIN.
- 3. RCP 15" SD Slope = 0.32% MIN.
- 4. RCP 18" SD Slope = 0.25% MIN.
- 5. RCP 21" SD Slope = 0.21% MIN.
- 6. RCP 24" SD Slope = 0.17% MIN.
- 7. RCP 27" SD Slope = 0.15% MIN.
- 8. RCP 30" SD Slope = 0.13% MIN.



USE COMBO BOXES AS NEEDED DUE TO LOCATION OF EX.SD PIPE

Reeve & Associates, Inc.
IRA

REVISIONS

DATE	DESCRIPTION
01/17/18	CK County Comments
03/22/18	CK County Comments
04/03/18	CK County Comments
04/20/18	EF County & Irrigation
05/24/18	EF Irrigation Revision

Sunset Equestrian Cluster Subdivision
Phase 1
 WEBER COUNTY, UTAH

Utility Plan

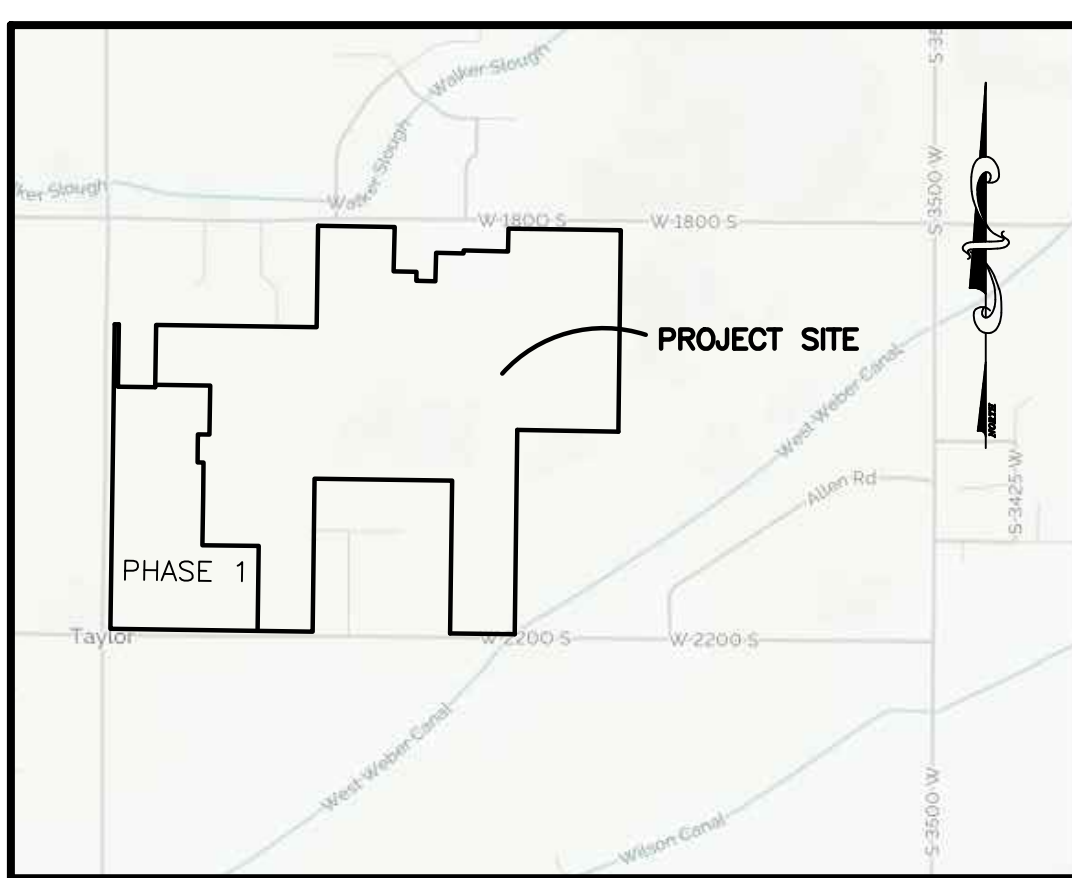
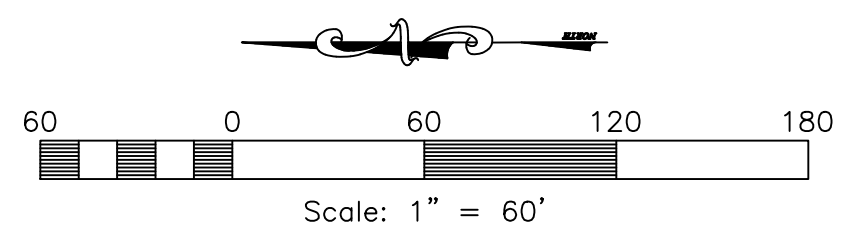


Project Info.

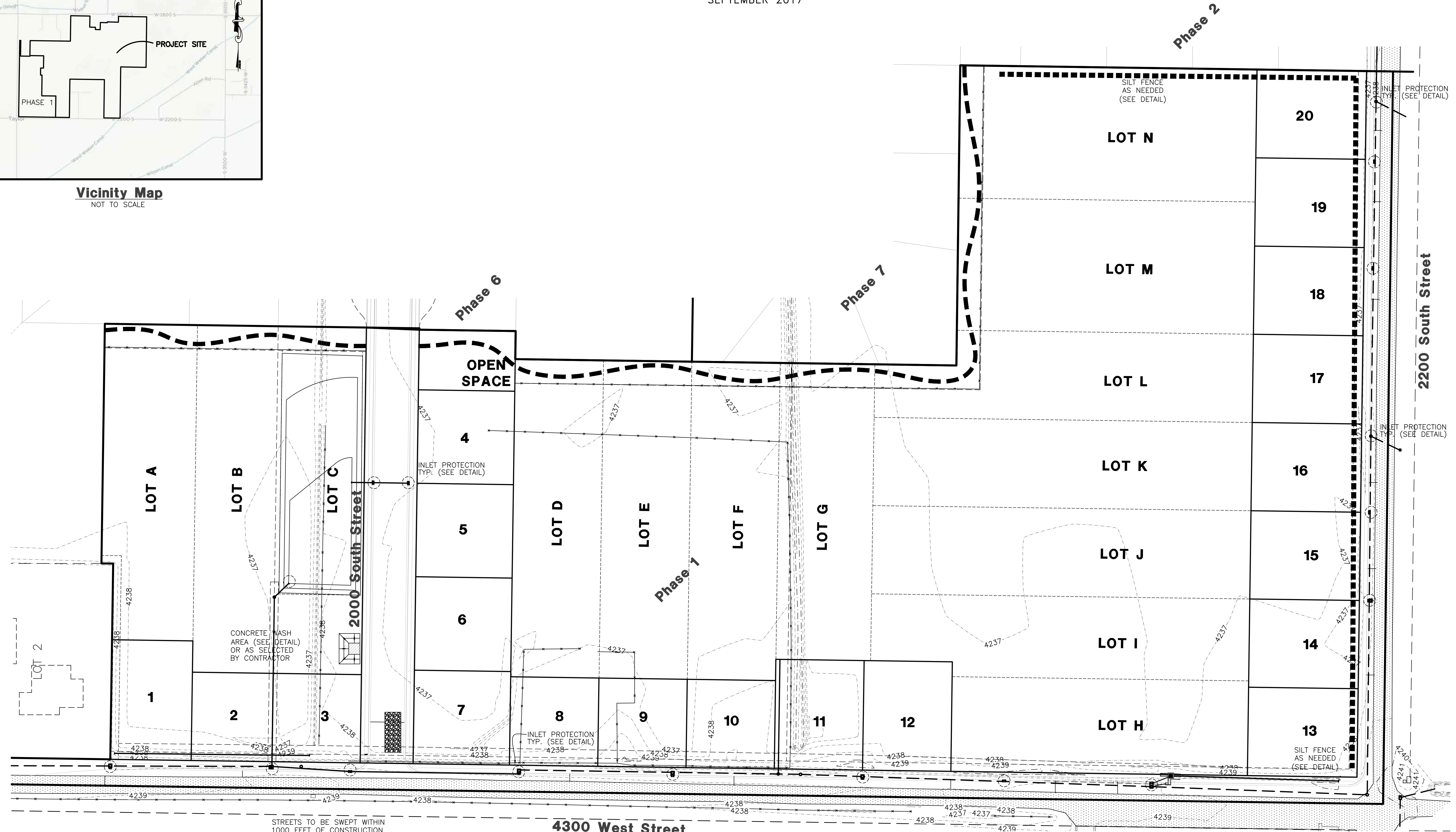
Engineer: J. NATE REEVE, P.E.
 Drafter: C. KINGSLEY
 Begin Date: SEPTEMBER 2017
 Name: SUNSET EQUESTRIAN CLUSTER SUBDIVISION PHASE 1
 Number: 5336-05

Sunset Equestrian Cluster Subdivision Phase 1 Storm Water Pollution Prevention Plan Exhibit

WEBER COUNTY, UTAH
SEPTEMBER 2017



Vicinity Map
NOT TO SCALE




STREETS TO BE SWEEPED WITHIN
1000 FEET OF CONSTRUCTION
ENTRANCE DAILY IF NECESSARY

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

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

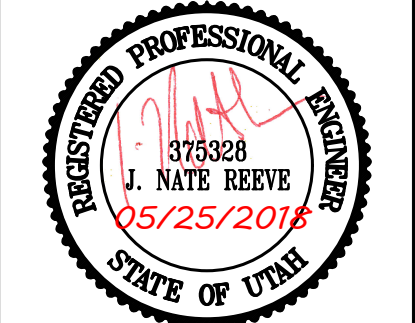
Construction Activity Schedule

- PROJECT LOCATION.....WEBER COUNTY, UTAH
- PROJECT BEGINNING DATE.....SEPTEMBER 2017
- BMP'S DEPLOYMENT DATE.....SEPTEMBER 2017
- STORM WATER MANAGEMENT CONTACT / INSPECTOR.....CHRIS HAERTAL/DOUG NOSLER (949) 453-9279
- SPECIFIC CONSTRUCTION SCHEDULE INCLUDING BMP CONSTRUCTION SCHEDULE TO BE INCLUDED WITH SWPPP BY OWNER/DEVELOPER

Reeve & Associates, Inc.

 5160 SOUTH 1500 WEST RIVERDALE, UTAH 84405
 TEL: (801) 621-1000 FAX: (801) 621-2666 www.reeve-assoc.com
 LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
 TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

DATE	DESCRIPTION
01/17/18	CK County Comments
03/22/18	CK County Comments
04/03/18	CK County Comments
04/20/18	EF County & Irrigation
05/24/18	EF Irrigation Revision

**Sunset Equestrian Cluster Subdivision
Phase 1**
 WEBER COUNTY, UTAH
**Storm Water Pollution
Prevention Plan Exhibit**

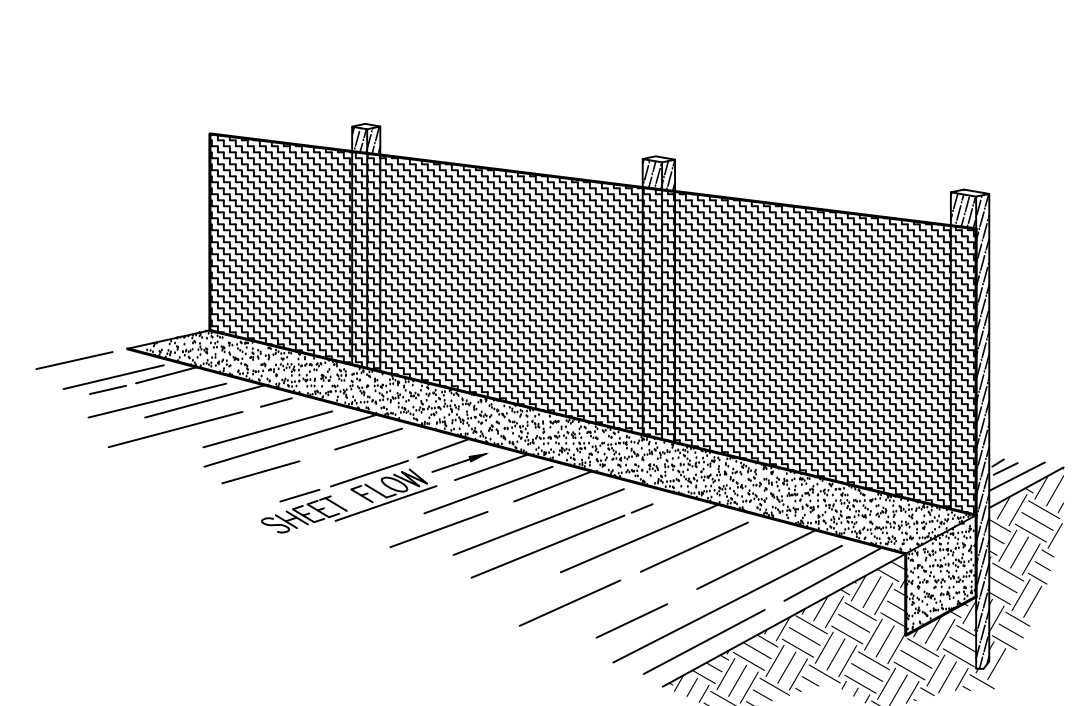


Project Info.
 Engineer: J. NATE REEVE, P.E.
 Drafter: C. KINGSLEY
 Begin Date: SEPTEMBER 2017
 Name: SUNSET EQUESTRIAN CLUSTER SUBDIVISION PHASE 1
 Number: 5336-05

5/25/2018 11:41:51 AM I:\erisher\1\05336\05 - Saddleback Village - Weber County\05\Improvements\Sunset Eq P1 Imp.dwg

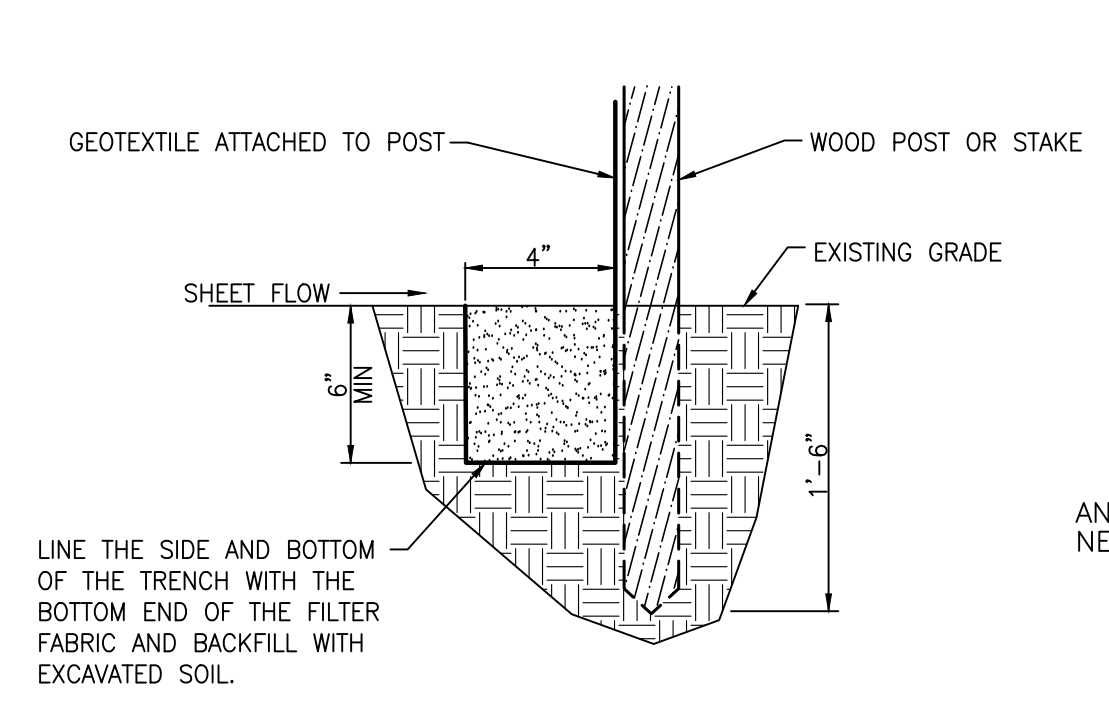
Notes:

- 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 contaminants are found or generated, contact environmental engineer and contacts listed.
 - Areas of contaminated soil:
If any contaminants are found or generated, contact environmental engineer and contacts listed.
 - Fueling area:
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.
 - Vehicle parking areas:
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.
 - Service areas:
To be performed in designated areas only and surrounded with silt fence.
- BMP's for wind erosion:
Stockpiles and site as needed to be watered regularly to eliminate / control wind erosion
- Construction Vehicles and Equipment:
 - Maintenance
 - 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.
 - Fueling
 - 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 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.
 - Washing
 - 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:
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.
 - Major Spills:
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.
 - 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 water.
 - 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 necessary.
 - 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.
 - 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 record.
 - 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 record.
 - Desilting basins may not be removed or made inoperable without the approval of the engineer of record and the governing agency.
 - Erosion control devices will be modified as need as the project progresses and plans of these changes submitted for approval by the engineer of record and the governing agency.
- 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 UTR300000 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 300000.



Perspective View

Figure 2



Section

INSTALLATION

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.

Slope Steepness (%)	Max. Slope Length (m)	Max. Slope Length (ft)
<2%	30.5m	(100ft)
2-5%	22.9m	(75ft)
5-10%	15.2m	(50ft)
10-20%	7.6m	(25ft)
>20%	4.5m	(15ft)

PREFABRICATED SILT FENCE ROLLS
 *Excavate a minimum 15.2cm x 15.2cm (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 by 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 about 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 obtained.
 *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.

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

INSPECTION
 *Inspect the silt fence daily during periods of rainfall, immediately after significant rainfall event and weekly during periods of no rainfall. Make any repairs immediately.
 *When sediment deposits behind the silt fence are one-third of the fence height, remove and properly dispose of the silt accumulations. Avoid damage to the fabric during cleanout.

REMOVAL
 *Silt fence should not be removed until construction ceases and the upslope area has been properly stabilized and/or revegetated.

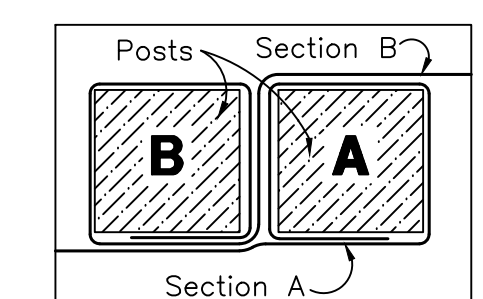
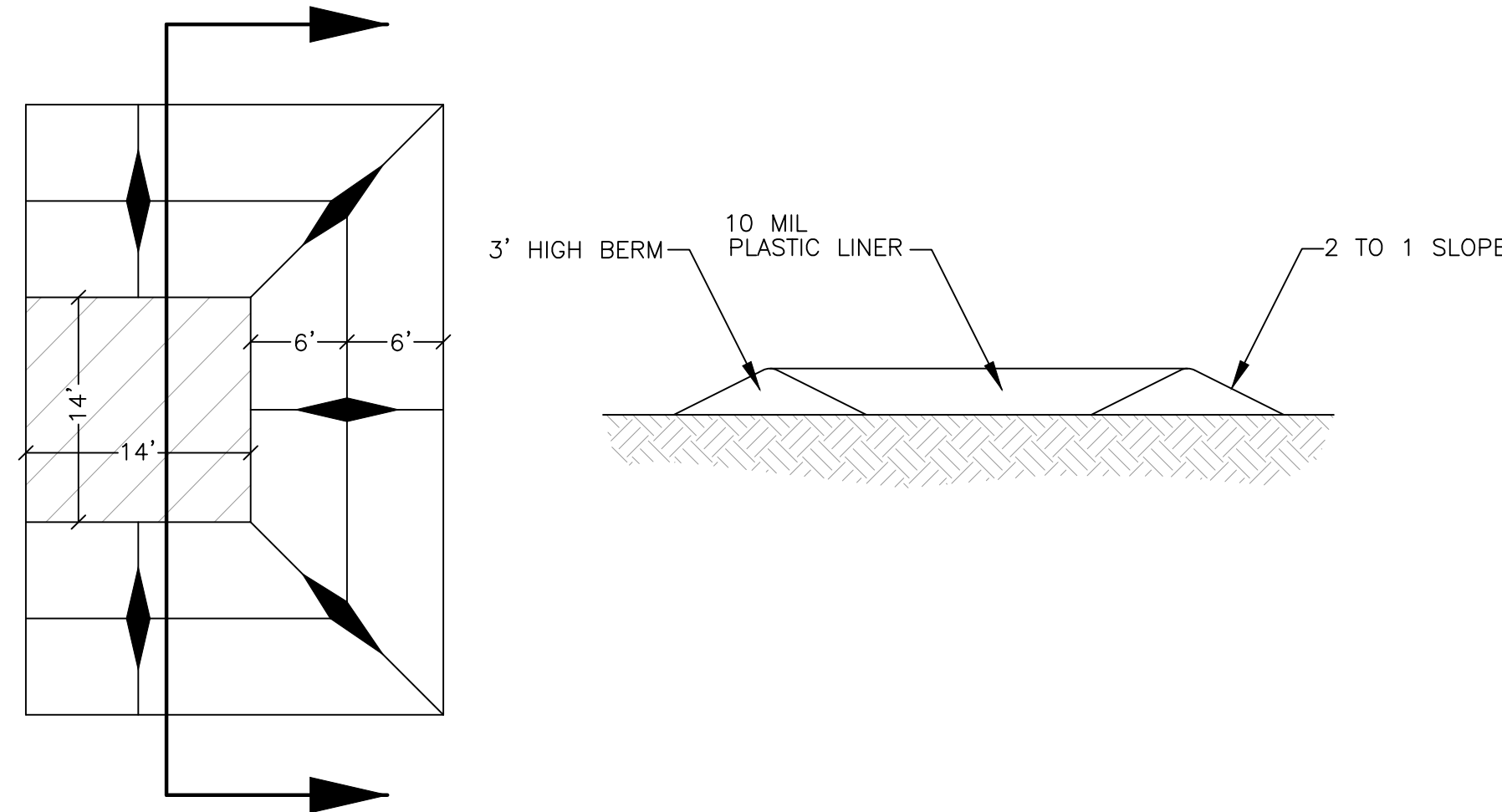


Figure 1:
Top View of Roll-to-Roll Connection

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

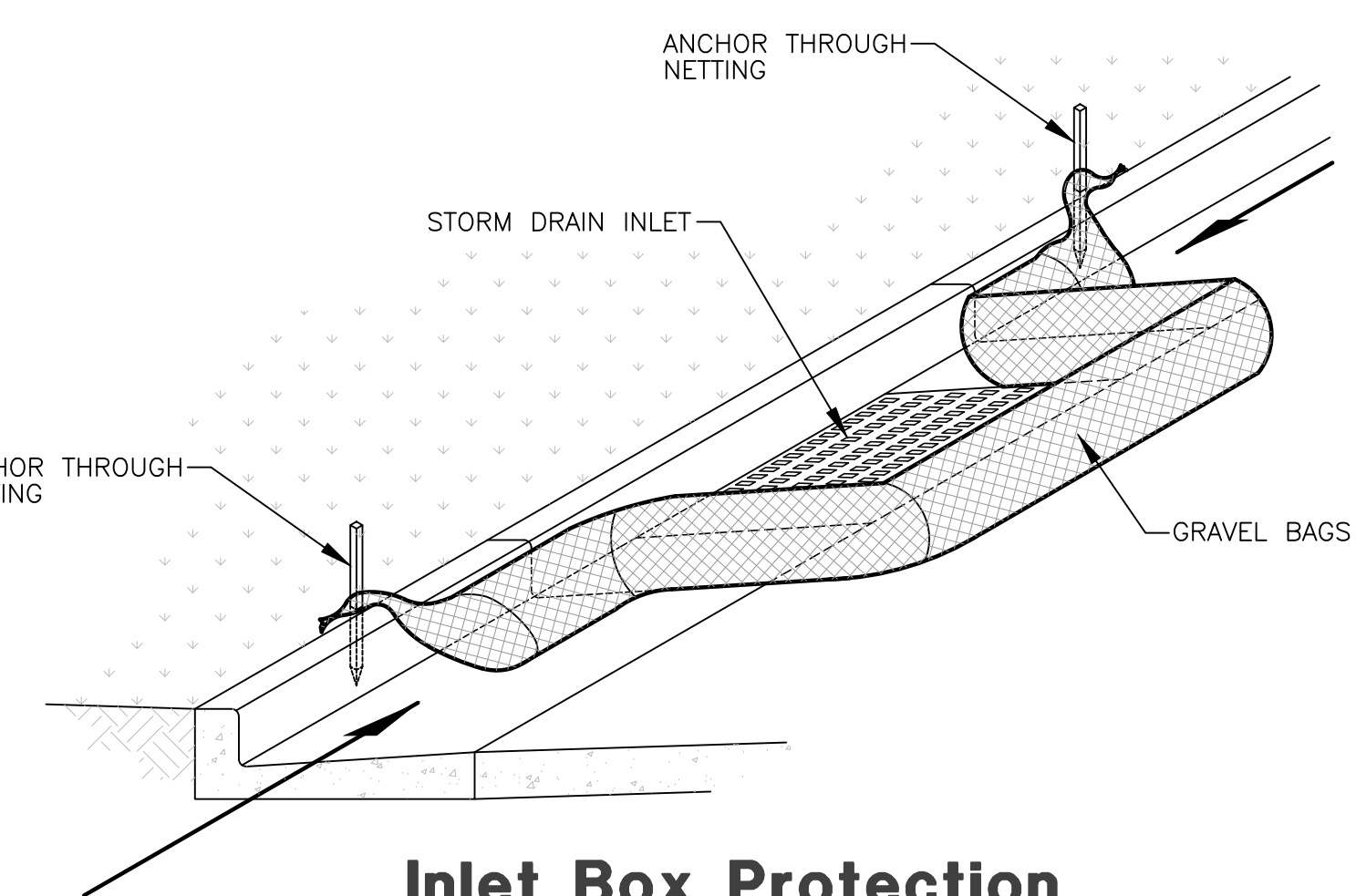
Silt Fence Detail

SCALE: NONE

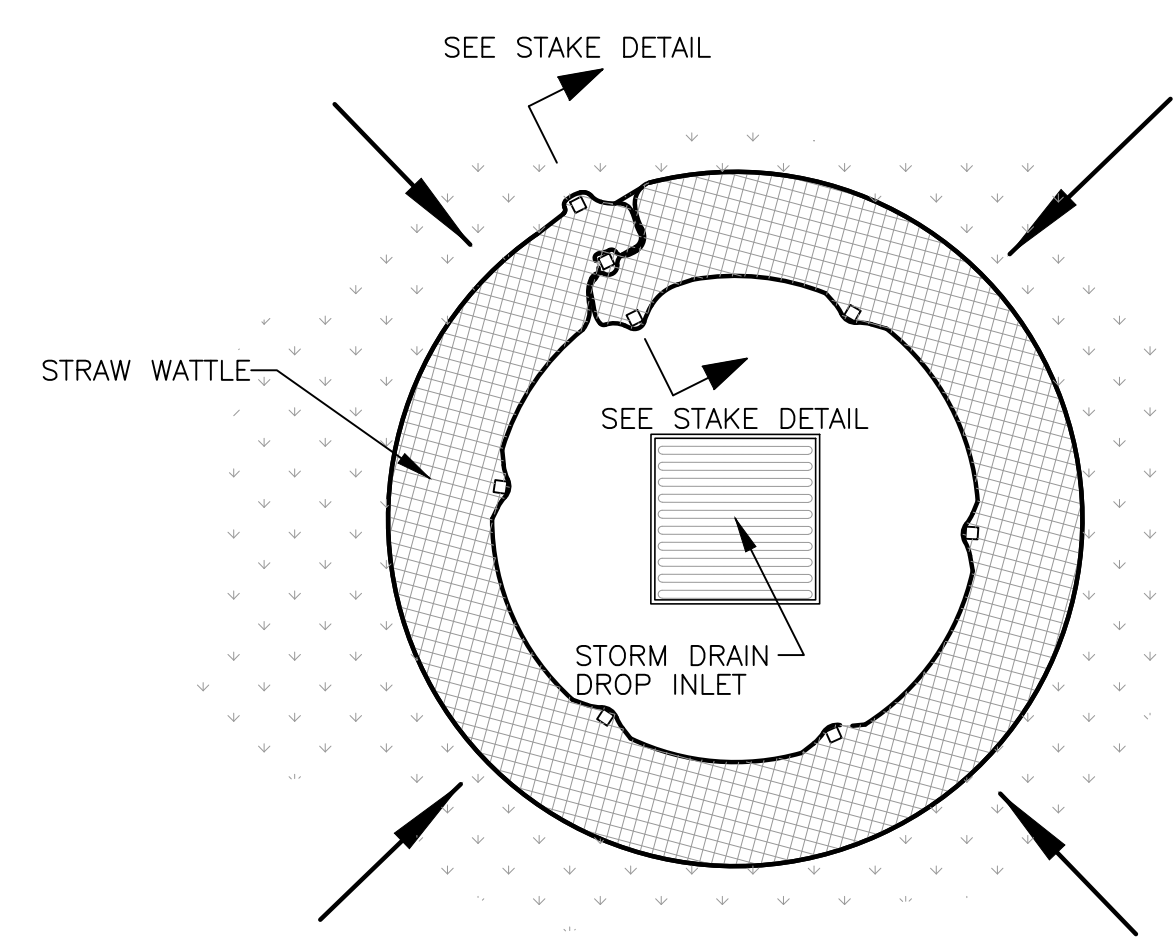


Concrete Washout Area w/ 10 mil Plastic Liner

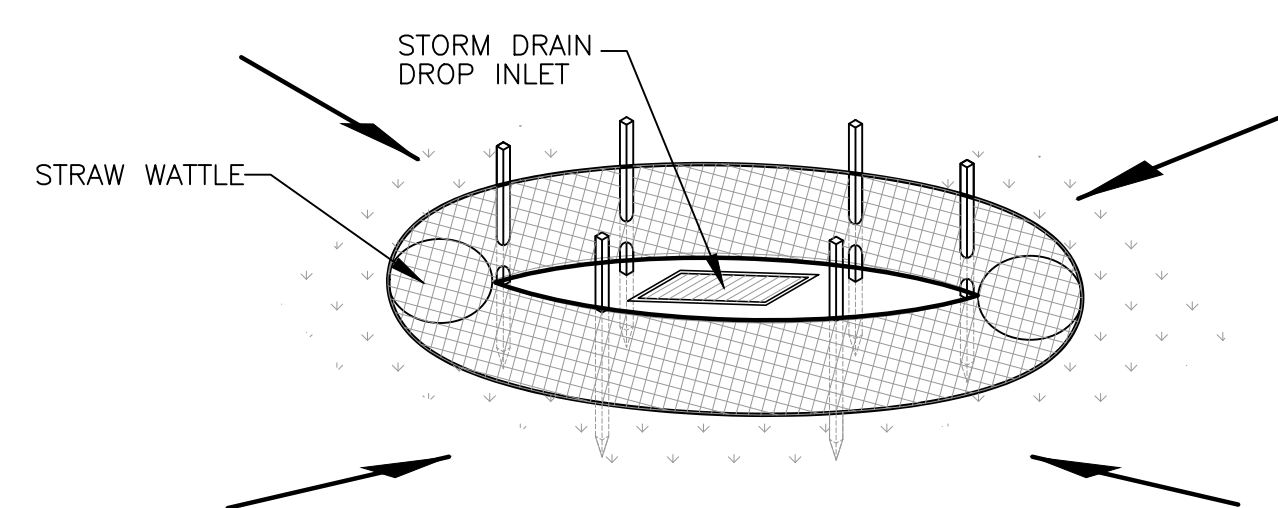
SCALE: NONE



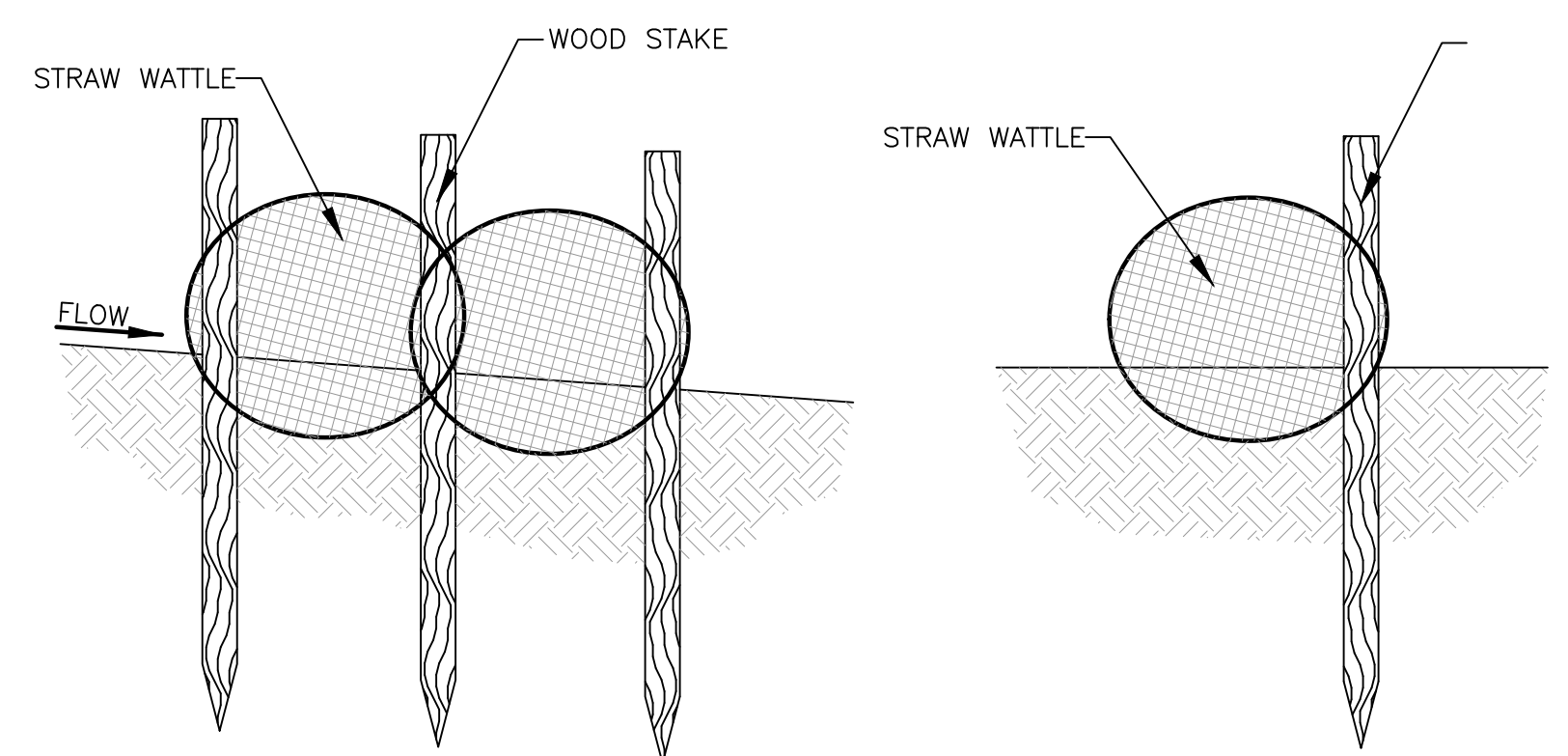
Inlet Box Protection



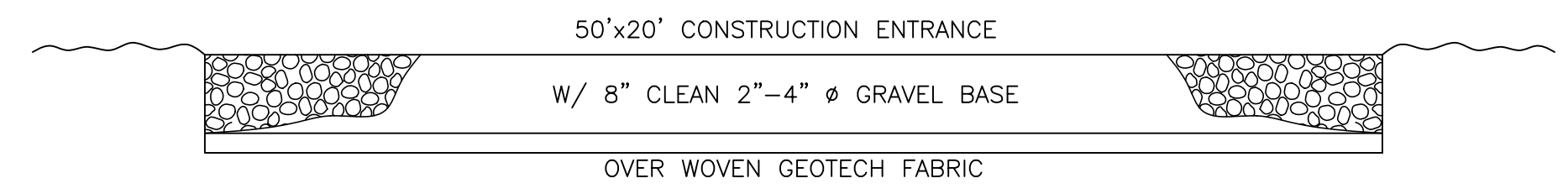
Plan View



Drop Inlet Protection



Stake Detail



Cross Section 50' x 20' Construction Entrance

Reeve & Associates, Inc.
IRA
 5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405
 TEL: (801) 621-1000 FAX: (801) 621-8666 www.reeve-assoc.com
 LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
 TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

DATE	DESCRIPTION
01/17/18	CK County Comments
03/22/18	CK County Comments
04/03/18	CK County Comments
04/20/18	EF County & Irrigation
05/24/18	EF Irrigation Revision

Sunset Equestrian Cluster Subdivision Phase 1
 WEBER COUNTY, UTAH
Storm Water Pollution Prevention Plan Details

REGISTERED PROFESSIONAL ENGINEER
 375328
J. NATE REEVE
 05/25/2018
 STATE OF UTAH

Project Info.
 Engineer: J. NATE REEVE, P.E.
 Drafter: C. KINGSLEY
 Begin Date: SEPTEMBER 2017
 Name: SUNSET EQUESTRIAN CLUSTER SUBDIVISION PHASE 1
 Number: 5336-05

Sheet **15**
 12 Sheets

5/25/2018 J. Fisher | G:\5336\05 - Saddleback Village - Weber County\05\Improvements\Sunset_Eq_P1_imp.dwg

TABLE OF CONTENTS

THRUST BLOCKING DETAIL.....1
 TYPICAL VALVE DETAIL.....2
 TYPICAL TRENCH SECTION.....3
 UDOT CROSSING DETAIL.....4
 TYPICAL SERVICE CONNECTION.....5
 FIRE HYDRANT DETAIL.....6
 AIR/VAC DETAIL.....7
 CASED CROSSING DETAIL.....8
 BLOW OFF VALVE DETAIL.....9

THRUST BLOCKING DETAIL
(NOT TO SCALE)

1. APPLIES TO ALL PRESSURE PIPE (NOT TO SCALE)

Gardner Engineering CIVIL ENGINEERING, LAND SURVEYING, WATER RESOURCES

TAYLOR - WEST WEBER WATER IMPROVEMENT DISTRICT STANDARD WATER DETAILS - Page 1 of 9

TYPICAL VALVE DETAIL
(NOT TO SCALE)

Gardner Engineering CIVIL ENGINEERING, LAND SURVEYING, WATER RESOURCES

TAYLOR - WEST WEBER WATER IMPROVEMENT DISTRICT STANDARD WATER DETAILS - Page 2 of 9

TYPICAL TRENCH SECTION
(NOT TO SCALE)

Gardner Engineering CIVIL ENGINEERING, LAND SURVEYING, WATER RESOURCES

TAYLOR - WEST WEBER WATER IMPROVEMENT DISTRICT STANDARD WATER DETAILS - Page 3 of 9

TYPICAL SERVICE CONNECTION
(NOT TO SCALE)

Gardner Engineering CIVIL ENGINEERING, LAND SURVEYING, WATER RESOURCES

TAYLOR - WEST WEBER WATER IMPROVEMENT DISTRICT STANDARD WATER DETAILS - Page 5 of 9

FIRE HYDRANT DETAIL
(NOT TO SCALE)

Gardner Engineering CIVIL ENGINEERING, LAND SURVEYING, WATER RESOURCES

TAYLOR - WEST WEBER WATER IMPROVEMENT DISTRICT STANDARD WATER DETAILS - Page 6 of 9

AIR/VAC VALVE DETAIL
(NOT TO SCALE)

Gardner Engineering CIVIL ENGINEERING, LAND SURVEYING, WATER RESOURCES

TAYLOR - WEST WEBER WATER IMPROVEMENT DISTRICT STANDARD WATER DETAILS - Page 7 of 9

TYPICAL BLOW OFF VALVE DETAIL
(NOT TO SCALE)

Gardner Engineering CIVIL ENGINEERING, LAND SURVEYING, WATER RESOURCES

TAYLOR - WEST WEBER WATER IMPROVEMENT DISTRICT STANDARD WATER DETAILS - Page 9 of 9

Reeve & Associates, Inc.
 5160 SOUTH 1500 WEST RIVERDALE, UTAH 84405
 TEL: (801) 621-1000 FAX: (801) 621-8666 www.reeve-assoc.com

IRA

Revisions

DATE	DESCRIPTION
01/17/18	CK County Comments
03/22/18	CK County Comments
04/03/18	CK County Comments
04/20/18	EF County & Irrigation
05/24/18	EF Irrigation Revision

Sunset Equestrian Cluster Subdivision Phase 1
 WEBER COUNTY, UTAH

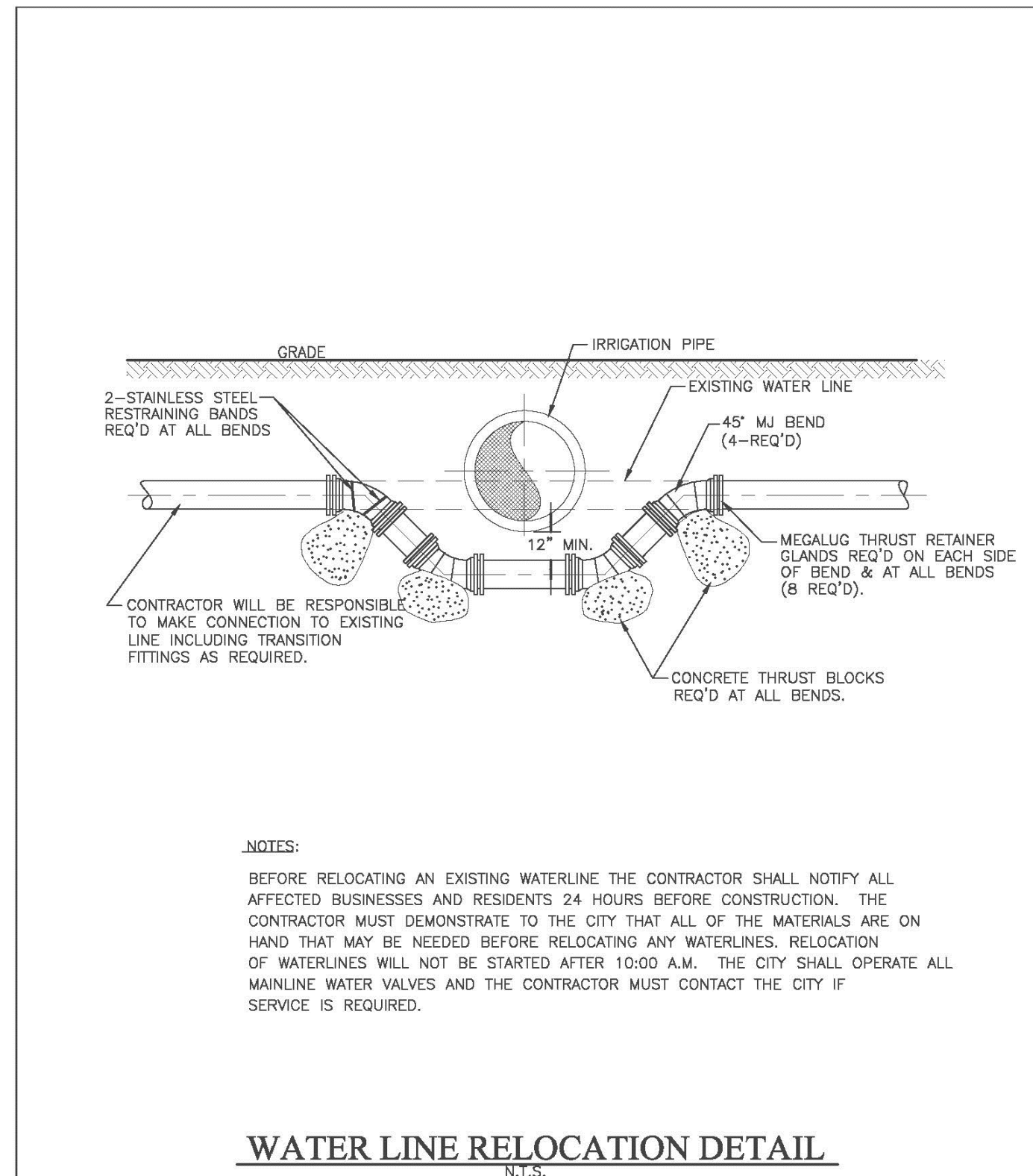
Taylor - West Weber Water Improvement District Standard Water Details

REGISTERED PROFESSIONAL ENGINEER
 No. 354312
Daniel Leon White
 STATE OF UTAH

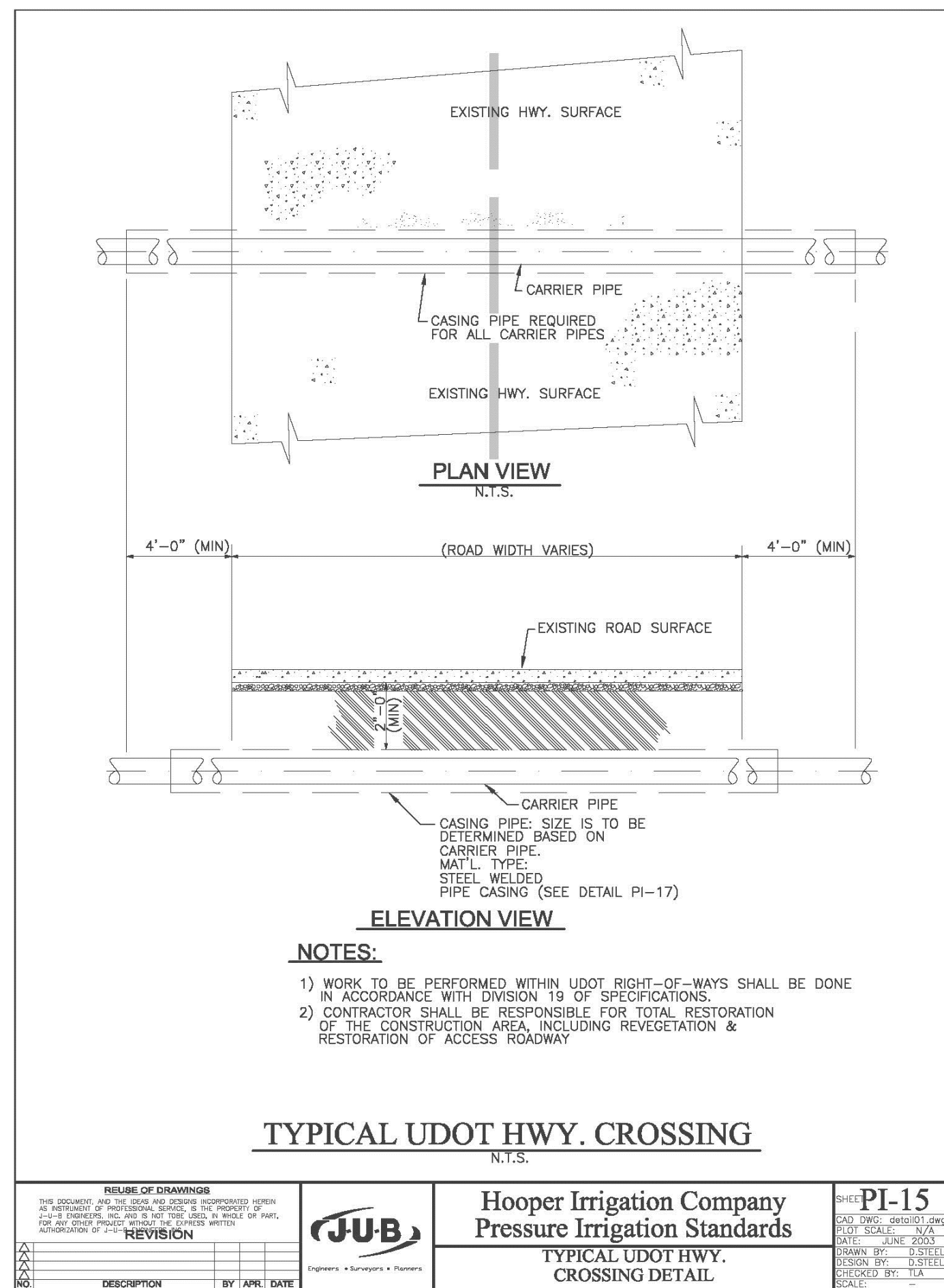
Project Info.

Engineer: J. NATE REEVE, P.E.
 Drafter: C. KINGSLEY
 Begin Date: SEPTEMBER 2017
 Name: SUNSET EQUESTRIAN CLUSTER SUBDIVISION PHASE 1
 Number: 5336-05

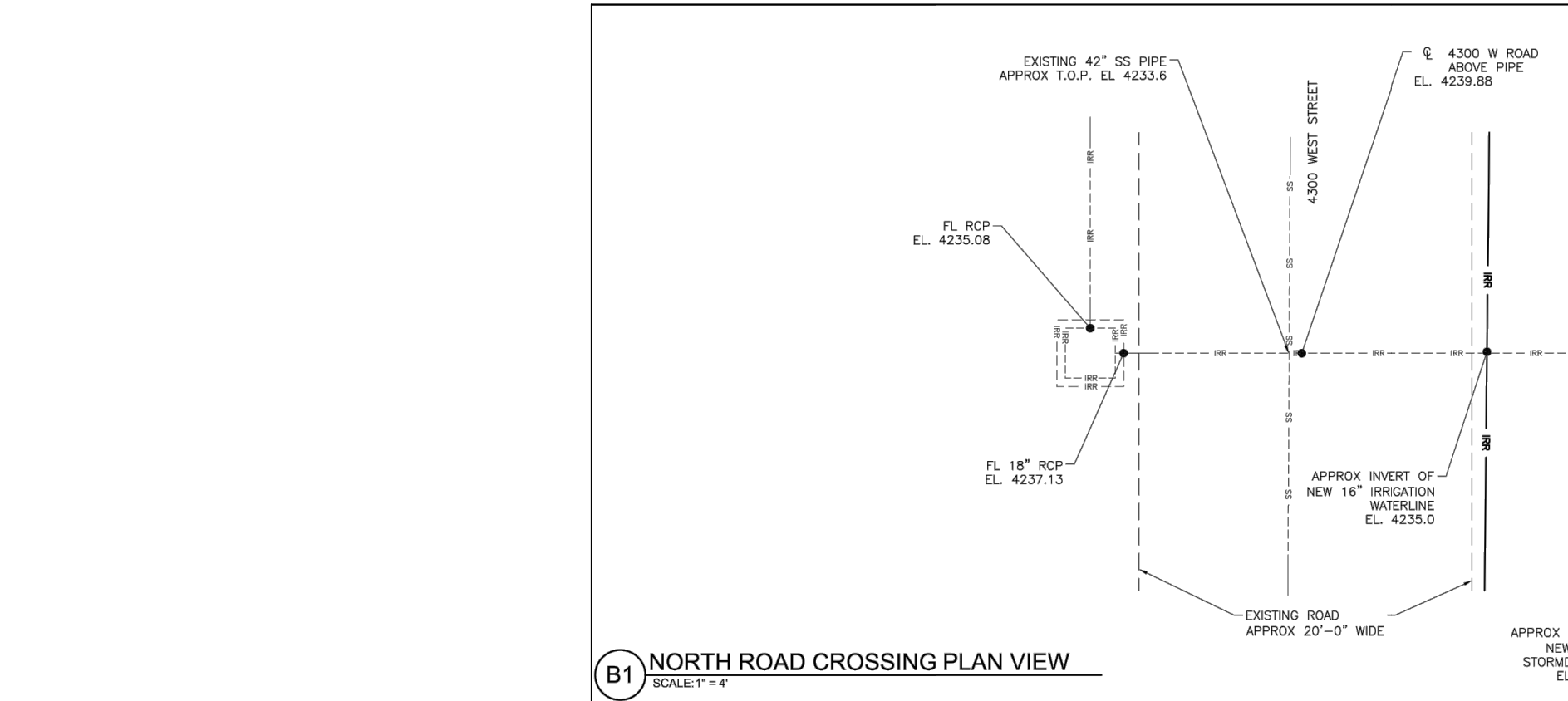
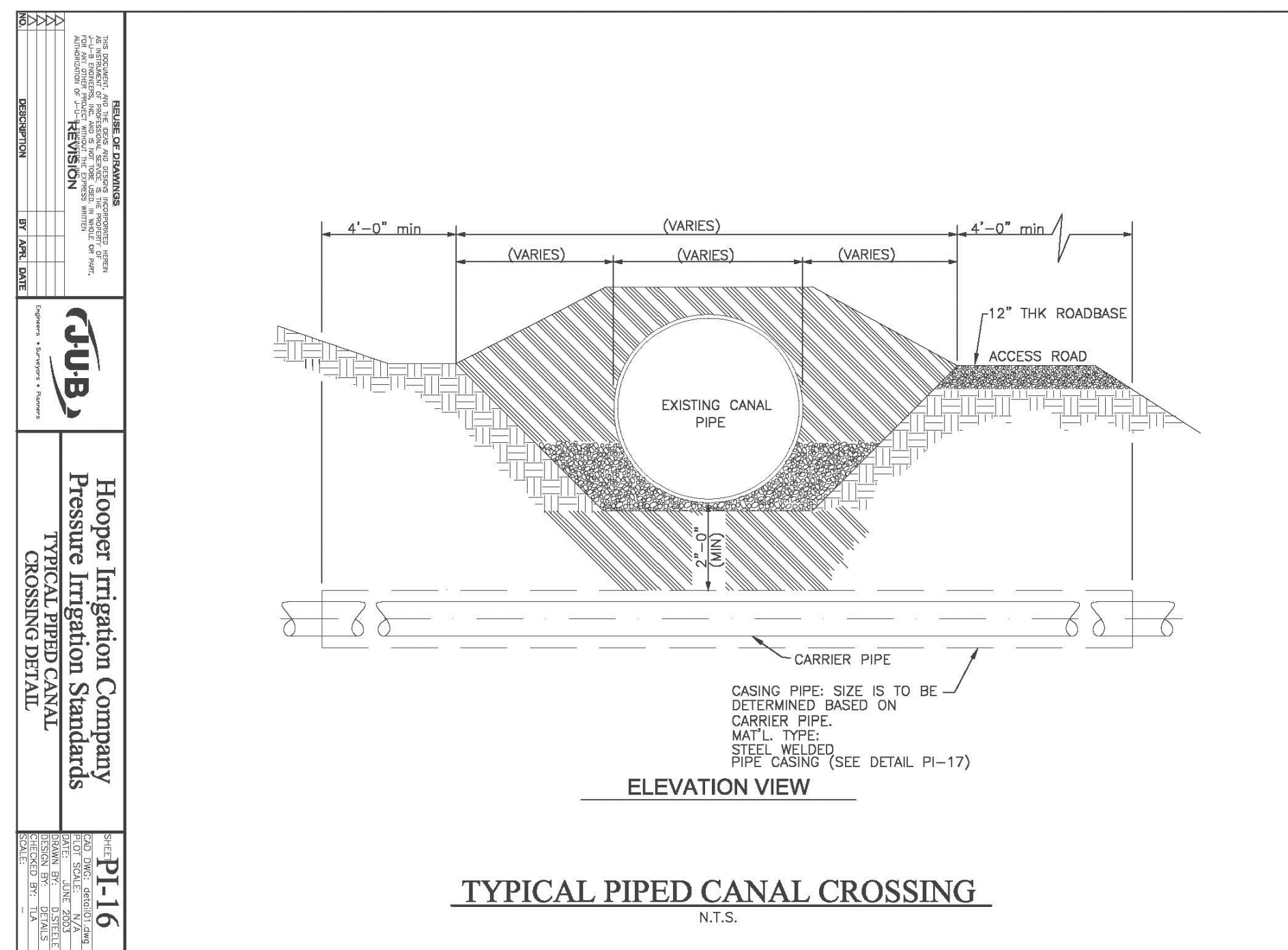
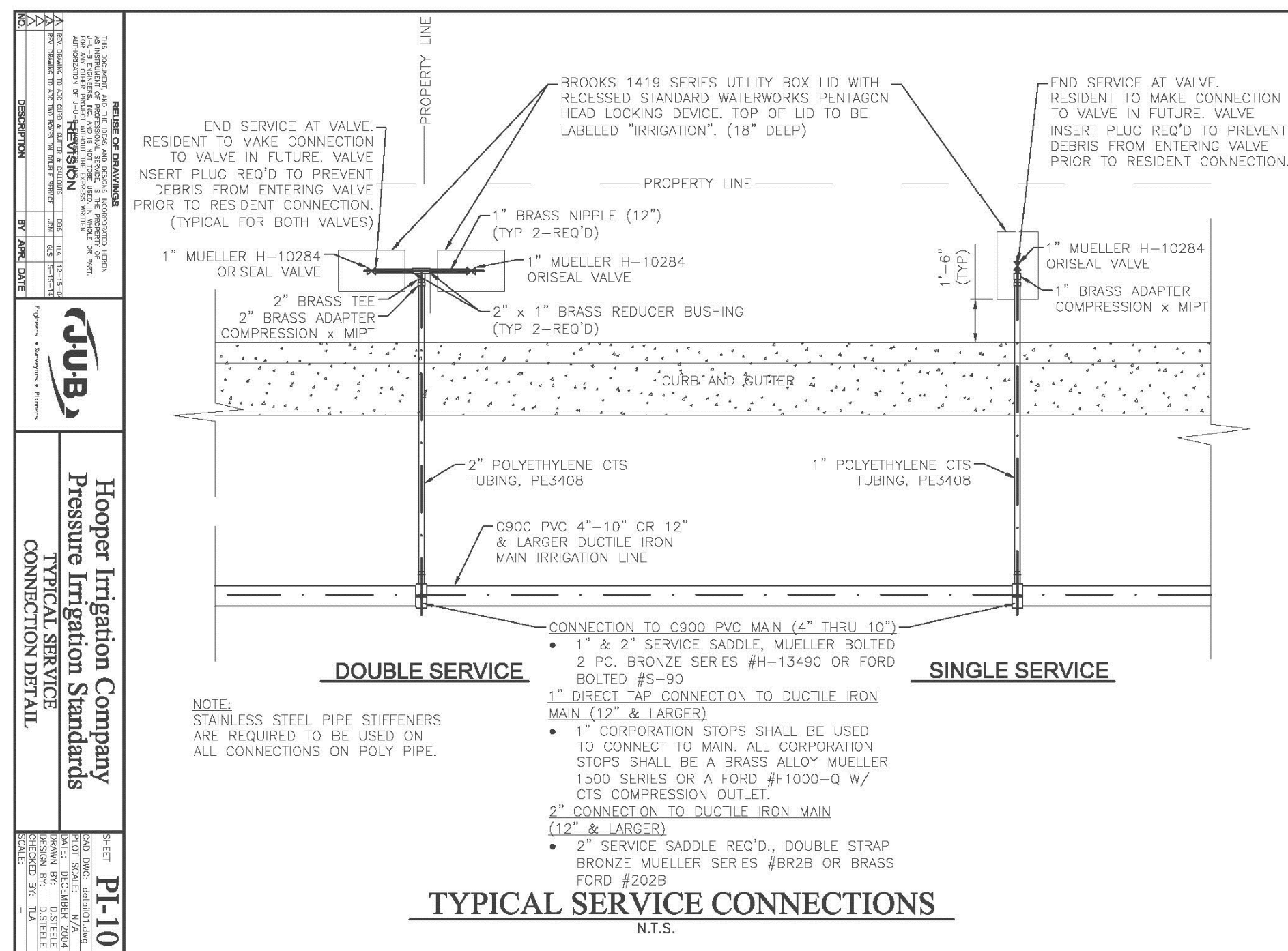
Sheet **13** of **15** Sheets



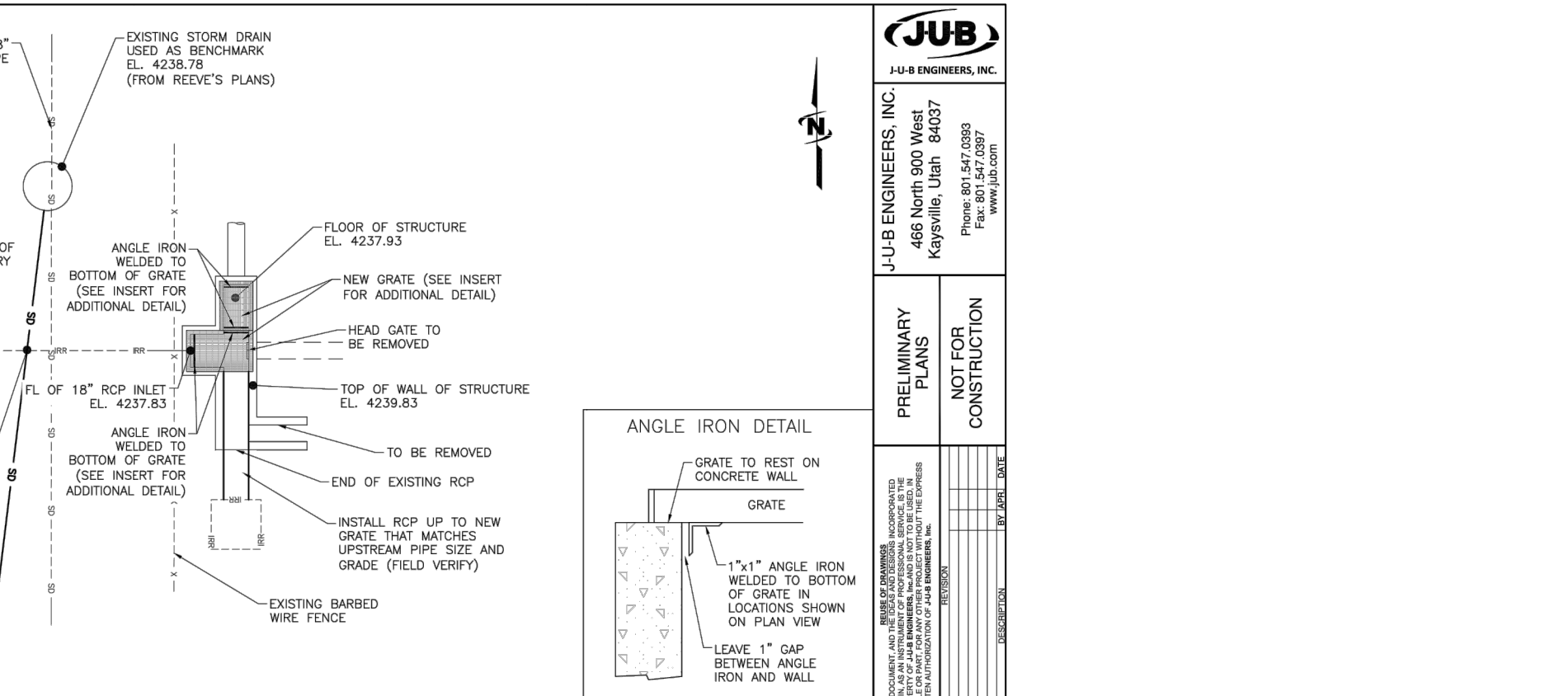
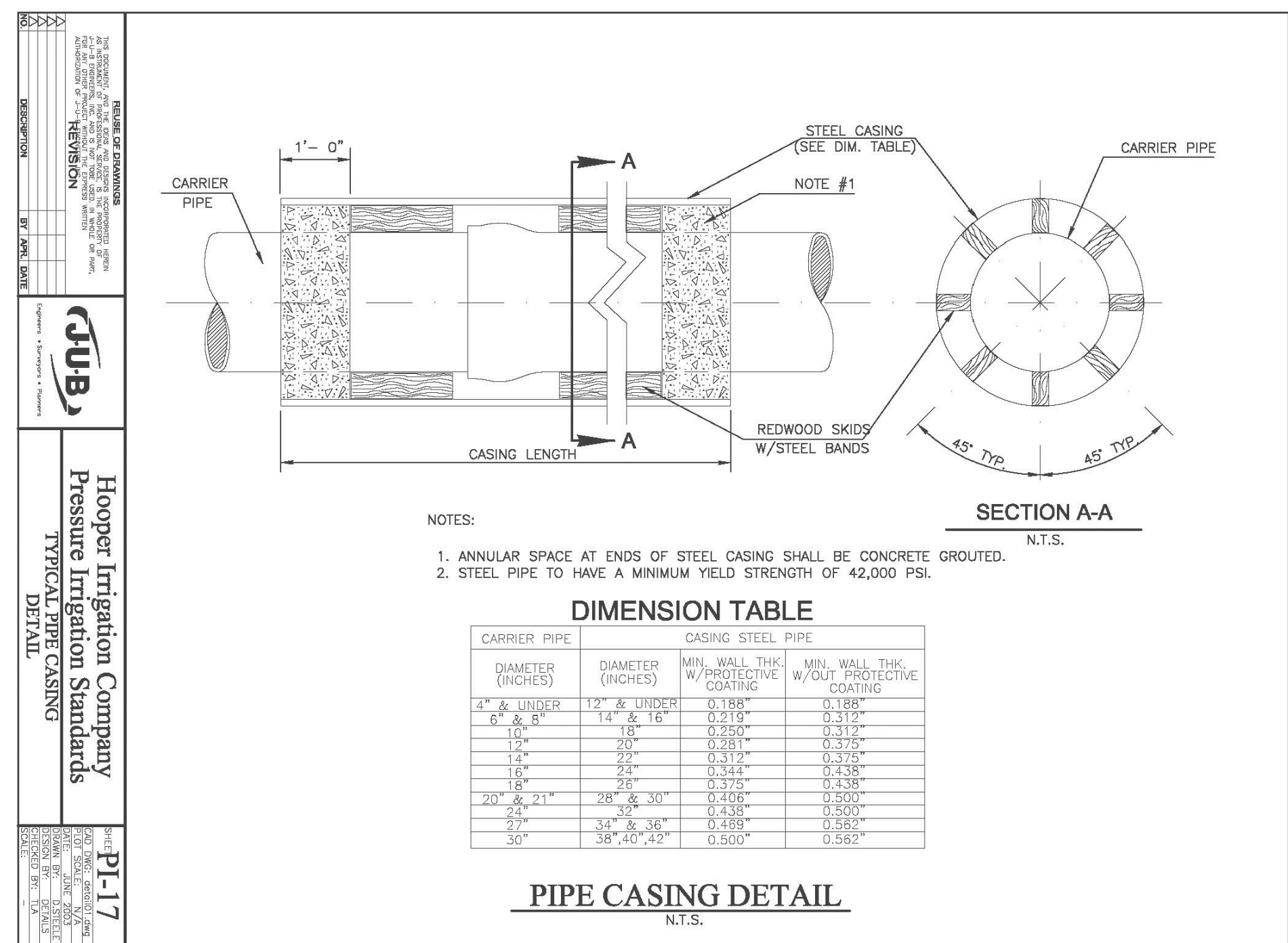
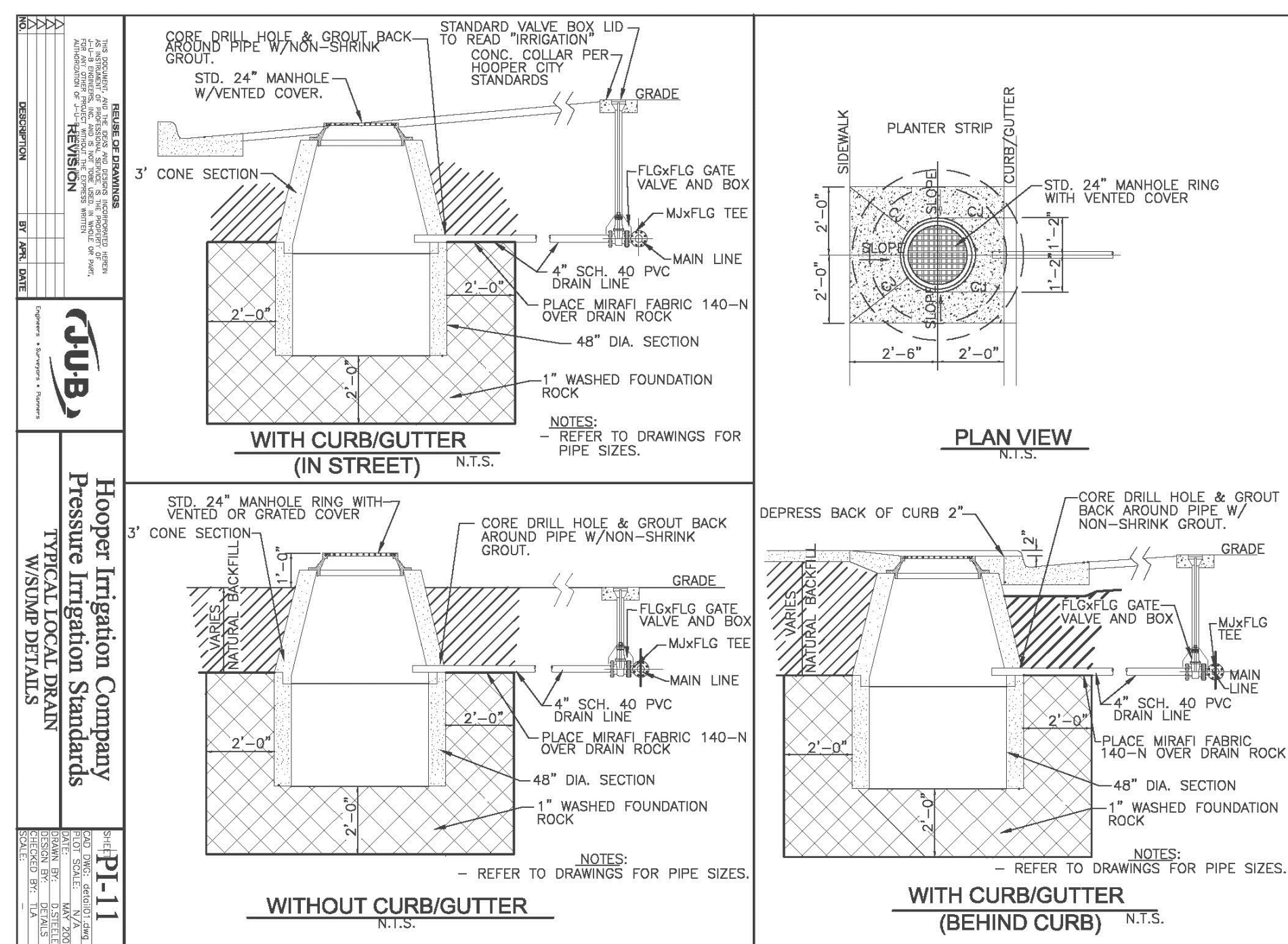
REVISION DATE BY DESCRIPTION 01/17/18 CK County Comments 03/22/18 CK County Comments 04/03/18 CK County Comments 04/20/18 EF County & Irrigation 05/24/18 EF Irrigation Revision		PI-10 Hooper Irrigation Company Pressure Irrigation Standards CONNECTION DETAIL
---	--	---



REVISION DATE BY DESCRIPTION 01/17/18 CK County Comments 03/22/18 CK County Comments 04/03/18 CK County Comments 04/20/18 EF County & Irrigation 05/24/18 EF Irrigation Revision		PI-12 Hooper Irrigation Company Pressure Irrigation Standards WATERLINE RELOCATION DETAIL
---	--	---



REVISION DATE BY DESCRIPTION 01/17/18 CK County Comments 03/22/18 CK County Comments 04/03/18 CK County Comments 04/20/18 EF County & Irrigation 05/24/18 EF Irrigation Revision		PI-16 Hooper Irrigation Company Pressure Irrigation Standards TYPICAL PIPE CANAL CROSSING DETAIL
---	--	--



REVISION DATE BY DESCRIPTION 01/17/18 CK County Comments 03/22/18 CK County Comments 04/03/18 CK County Comments 04/20/18 EF County & Irrigation 05/24/18 EF Irrigation Revision		PI-17 Hooper Irrigation Company Pressure Irrigation Standards TYPICAL PIPE CASING DETAIL
---	--	--

Reeve & Associates, Inc.
 5160 SOUTH 1500 WEST RIVERDALE, UTAH 84405
 TEL: (801) 621-1000 FAX: (801) 621-2666 www.reeve-associates.com

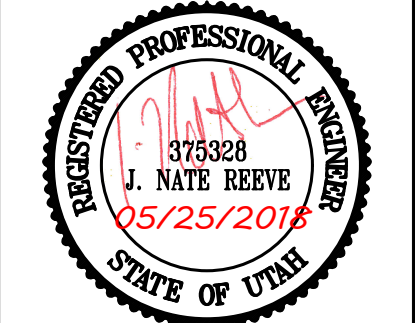
IRA

LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
 TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS	DATE	DESCRIPTION
01/17/18	CK	County Comments
03/22/18	CK	County Comments
04/03/18	CK	County Comments
04/20/18	EF	County & Irrigation
05/24/18	EF	Irrigation Revision

Sunset Equestrian Cluster Subdivision Phase 1
 WEBER COUNTY, UTAH

Hooper Irrigation Company Pressure Irrigation Standards



Project Info.

Engineer: J. NATE REEVE, P.E.
 Drafter: C. KINGSLEY
 Begin Date: SEPTEMBER 2017
 Name: SUNSET EQUESTRIAN CLUSTER SUBDIVISION PHASE 1
 Number: 5336-05