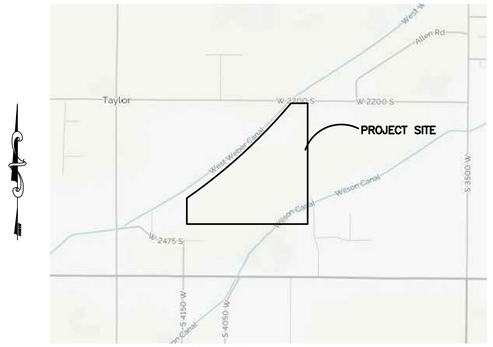
Project Narrative/Notes/Revisions

1. 07/17/17 CK – COMPLETED DESIGN FOR CLIENT & CITY REVIEW.
2. 08/03/17 TP – REVISED PER INTERNAL REVIEW.
3. 10/17/17 CK – REVISED PER FINAL INTERNAL REVIEW.
4. 12/12/17 CK – UPDATED PER IRRIGATION COMMENTS DATED NOVEMBER 22 2017.
5. 04/03/18 CK – UPDATED PER COUNTY REVIEW COMMENTS.

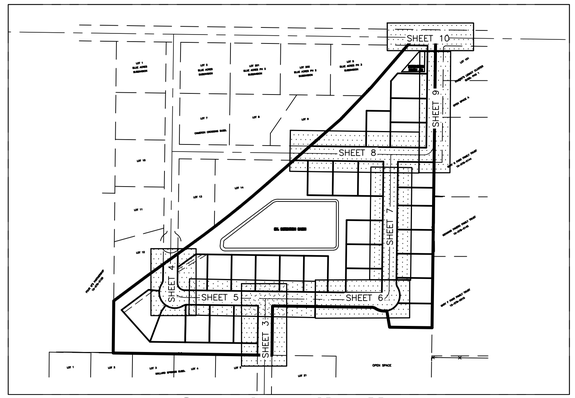
Cameron Cove Cluster Subdivision

Improvement Plans

WEBER COUNTY, UTAH
JUNE 2017

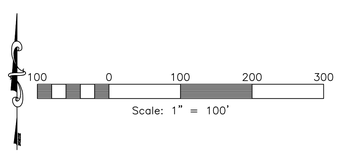


Vicinity Map
NOT TO SCALE



Sheet Index Key Map
NOT TO SCALE

Sheet Index



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:
Doug Hamblin
Hamblin Investments
P.O. Box 625
Roy, UT. 84067
PH: (801) 725-3782

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) 621-3100 FAX: (801) 621-2666 www.reeve-assoc.com
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
10-17-17 CK	Final Internal Review
12-12-17 CK	Irrigation Comments
04-03-18 CK	County Review

REGISTERED PROFESSIONAL ENGINEER
375326
J. NATE REEVE
4/3/18
STATE OF UTAH

Project Info.
Engineer: J. NATE REEVE, P.E.
Drafter: C. KINGSLEY
Begin Date: JUNE 2017
Name: CAMERON COVE CLUSTER SUBDIVISION
Number: 3442-A48

Cameron Cove Cluster Subdivision
WEBER COUNTY, UTAH
Cover/Index Sheet

Sheet 1 of 16 Sheets

General Notes:

1. ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: GOVERNING UTILITY MUNICIPALITY, GOVERNING CITY OR COUNTY (IF UN-INCORPORATETED), 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.
3. TRAFFIC CONTROL, STRIPING &' SIGNAGE TO CONFORM TO CURRENT GOVERNING AGENCIES TRANSPORTATION ENGINEER'S MANUAL AND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
4. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
5. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION.
6. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE.
7. 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 ANY 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 GRADE CHANGES.
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 UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE HIGHEST 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.
3. 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.
5. ALL VALVES AND MANHOLE COVERS SHALL BE RAISED OR LOWERED TO MEET FINISHED GRADE.
6. 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 BOX
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 REQUIRED 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 CONSTRUCTION).
17. ALL WATER LINES SHALL BE INSTALLED A MINIMUM OF 60" BELOW FINISHED GRADE.
18. 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.
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.

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 METHODS:

A) SPRAYING DISTURBED AREAS WITH A TACKIFIER VIA HYDROSEED
B) TRACKING STRAW PERPENDICULAR TO SLOPES
C) INSTALLING A LIGHT-WEIGHT, TEMPORARY EROSION CONTROL BLANKET

Master Legend

——W——	= PROPOSED CULINARY WATER LINE	▭	= EXISTING CATCH BASIN
— —EX.W— —	= EXISTING CULINARY WATER LINE		= EXISTING SPRINKLER
——SS——	= PROPOSED SANITARY SEWER LINE		= PLUG W/ 2" BLOW-OFF
— —EX.SS— —	= EXISTING SANITARY SEWER LINE		= AIR-VAC ASSEMBLY
——SD——	= PROPOSED STORM DRAIN LINE		= PROPOSED REDUCER
— —EX.SD— —	= EXISTING STORM DRAIN LINE		= PLUG & BLOCK
——LD——	= PROPOSED LAND DRAIN LINE		= STREET LIGHT
— —EX.LD— —	= EXISTING LAND DRAIN LINE		= SIGN
——SW——	= PROPOSED SECONDARY WATER LINE	BLDG	= BUILDING
— —EX.SW— —	= EXISTING SECONDARY WATER LINE	BVC	= BEGIN VERTICAL CURVE
——IRR——	= PROPOSED IRRIGATION LINE	C&G	= CURB & GUTTER
— —EX.IRR— —	= EXISTING IRRIGATION LINE	CB	= CATCH BASIN
— —OHP— —	= EXISTING OVERHEAD POWER LINE	C.F.	= CUBIC FEET
— —TEL— —	= EXISTING TELEPHONE LINE	C.F.S.	= CUBIC FEET PER SECOND
— —GAS— —	= EXISTING NATURAL GAS LINE	CL	= CENTERLINE
— — — —	= EXISTING EDGE OF PAVEMENT	DI	= DUCTILE IRON
-X-X-X-	= FENCE LINE	EP	= EDGE OF PAVEMENT
▬ ▬ ▬	= MASONRY BLOCK/RETAINING WALL	EVC	= END VERTICAL CURVE
- - - -	= DITCH/SWALE FLOWLINE	FC	= FENCE CORNER
	= PROPOSED FIRE HYDRANT	FF	= FINISH FLOOR
	= EXISTING FIRE HYDRANT	FFE	= FINISH FLOOR ELEVATION
	= PROPOSED MANHOLE	FG	= FINISHED GRADE
	= EXISTING MANHOLE	FH	= FIRE HYDRANT
	= PROPOSED SEWER CLEAN-OUT	FL	= FLOW LINE
	= PROPOSED GATE VALVE	GB	= GRADE BREAK
	= EXISTING GATE VALVE	HDPE	= HIGH DENSITY POLYETHYLENE PIPE
	= PROPOSED WATER METER	INV	= INVERT
	= EXISTING WATER METER	IRR	=IRRIGATION
▬	= PROPOSED CATCH BASIN	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
S.SIGN	= STOP SIGN
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
	= PROPOSED PAVEMENT
	= PROPOSED CONCRETE
	= SEWER EASEMENT

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.

Flood Information Data:

FLOOD ZONE DESIGNATION "X" PER F.E.M.A. FLOOD INSURANCE RATE MAPS, COMMUNITY PANEL NUMBERS 49057C0425E DATED DECEMBER 16, 2005.

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

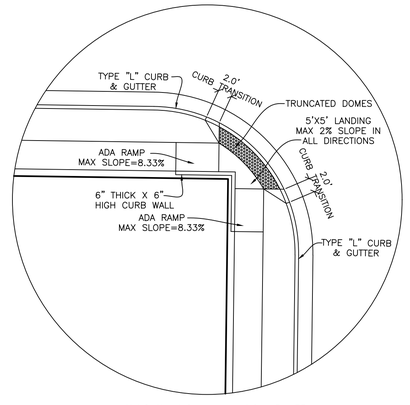
(THE ABOVE STATEMENT IS FOR INFORMATION ONLY AND THE SURVEYOR ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THE CITED MAP OR THE LOCATION OF THE FLOOD ZONE BOUNDARY. IN ADDITION, THE ABOVE STATEMENT DOES NOT REPRESENT THE SURVEYOR'S OPINION OF THE PROBABILITY OF FLOODING.)

General Project Notes:

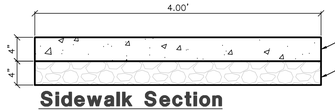
1. ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE DEVELOPMENT STANDARDS OF WEBER COUNTY AND THE STANDARD DRAWINGS CONTAINED THEREIN. WEBER COUNTY PUBLIC WORKS REQUIREMENTS SHALL BE MET.
2. THE LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS.
3. THE STREET STRUCTURAL CROSS SECTION IS PER WEBER COUNTY DETAILS CONTAINED WITHIN THESE PLANS, MODIFIED AS INSTRUCTED BY COUNTY REVIEW.
4. WATER LINE PIPE SHALL BE PVC C-900 CLASS 200. WASHOUT ASSEMBLIES SHALL CONSIST OF A KUPPERLE FOUNDRY CO. 2" BLOW-OFF HYDRANT (OR COUNTY-APPROVED EQUIV.).
5. SECONDARY WATER LINE SHALL BE PVC C-900 CLASS 200. ALL SECONDARY WATER VALVE LIDS SHALL BE STAMPED "IRRIGATION".

Secondary Water Notes:

1. ALL SECONDARY WATER SHALL BE IN CONFORMANCE WITH HOOPER IRRIGATION WATER STANDARDS.
2. ALL SECONDARY WATER MAINS TO HAVE A MINIMUM OF 2.5' OF COVER.
3. A LOCATION RIBBON MUST BE INSTALLED ABOVE THE WATER MAIN IN ACCORDANCE WITH HOOPER IRRIGATION STANDARDS.
4. CONTRACTOR MUST FILE FOR A LICENSE AGREEMENT FOR EVERY UTILITY CROSSING OF HOOPER IRRIGATION CANALS. THIS AGREEMENT MUST BE ACCOMPANIED WITH A COPY OF THE PLANS FOR THE CROSSING ALONG WITH THE FEES TO BE PAID. THERE NEEDS TO BE AT LEAST 2' VERTICAL SEPARATION FROM THE BOTTOM OF THE CANAL. THIS APPLIES TO BOTH THE CANAL ON 2200 SOUTH AND THE CANAL ON THE SOUTH END OF THE DEVELOPMENT.

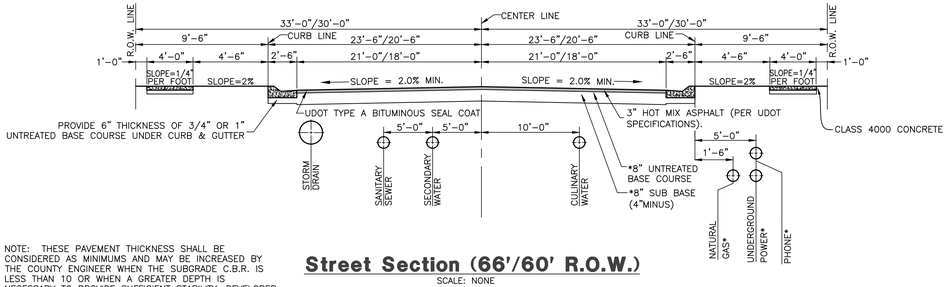


ADA Ramp Detail
SCALE: NONE



Sidewalk Section
SCALE: NONE

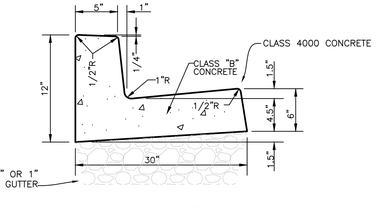
NOTE:
PER APWA, SIDEWALK SECTION TO BE INCREASED TO 6" CLASS 4000 CONCRETE WITH 6" UNTREATED BASE COURSE AT DRIVEWAYS. VERIFY DRIVEWAY LOCATIONS WITH HOME BUILDER.



Street Section (66'/60' R.O.W.)
SCALE: NONE

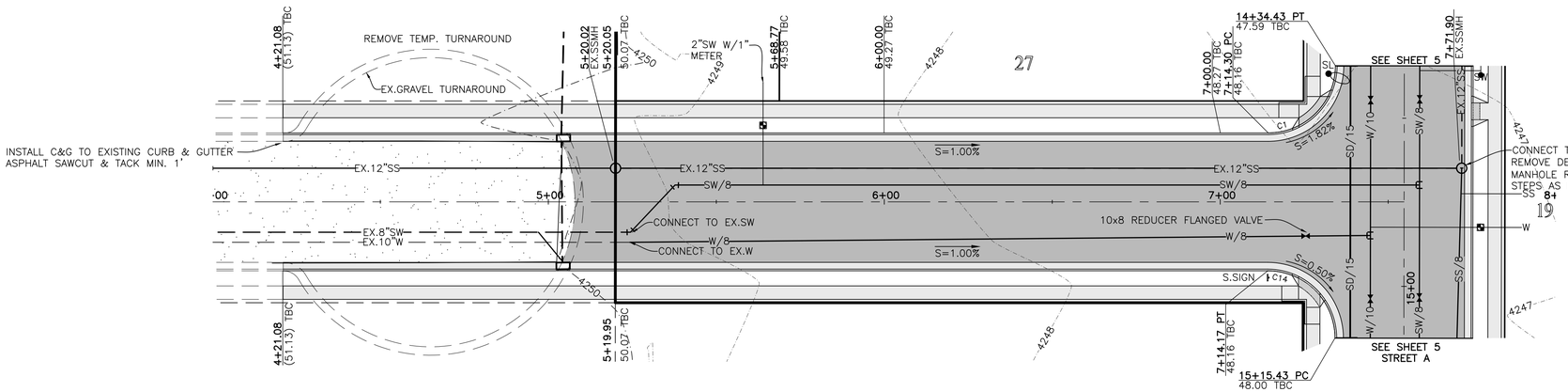
*VERIFY LOCATION WITH PHONE, GAS AND POWER COMPANIES.

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.



On-Site 'L' Type Curb & Gutter
SCALE: NONE

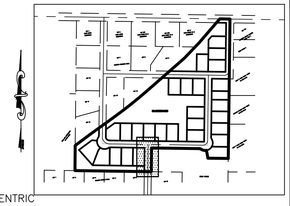
Reeve & Associates, Inc.
5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405
TEL: (801) 621-3100 F



NOTE:
ADA RAMPS PER MODIFIED APWA 235 EXAMPLE A WITH FLARED TRANSITION PER APWA 238. SEE DETAIL SHEET 2

Key Map

NOT TO SCALE



Construction Notes:

1) ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY.

CULINARY WATER

W/10 – 10" PVC C-900 CLASS 200 WATER

STORM DRAIN

SD/15 – 15" RCP STORM DRAIN
SD/18 – 18" RCP STORM DRAIN

SANITARY SEWER

SS/8 – 8" PVC C-900 SEWER LINE

SECONDARY WATER

SW/8 – 8" PVC C-900 SECONDARY WATER LINE
SW – 2" PVC C-900 SECONDARY WATER LATERAL

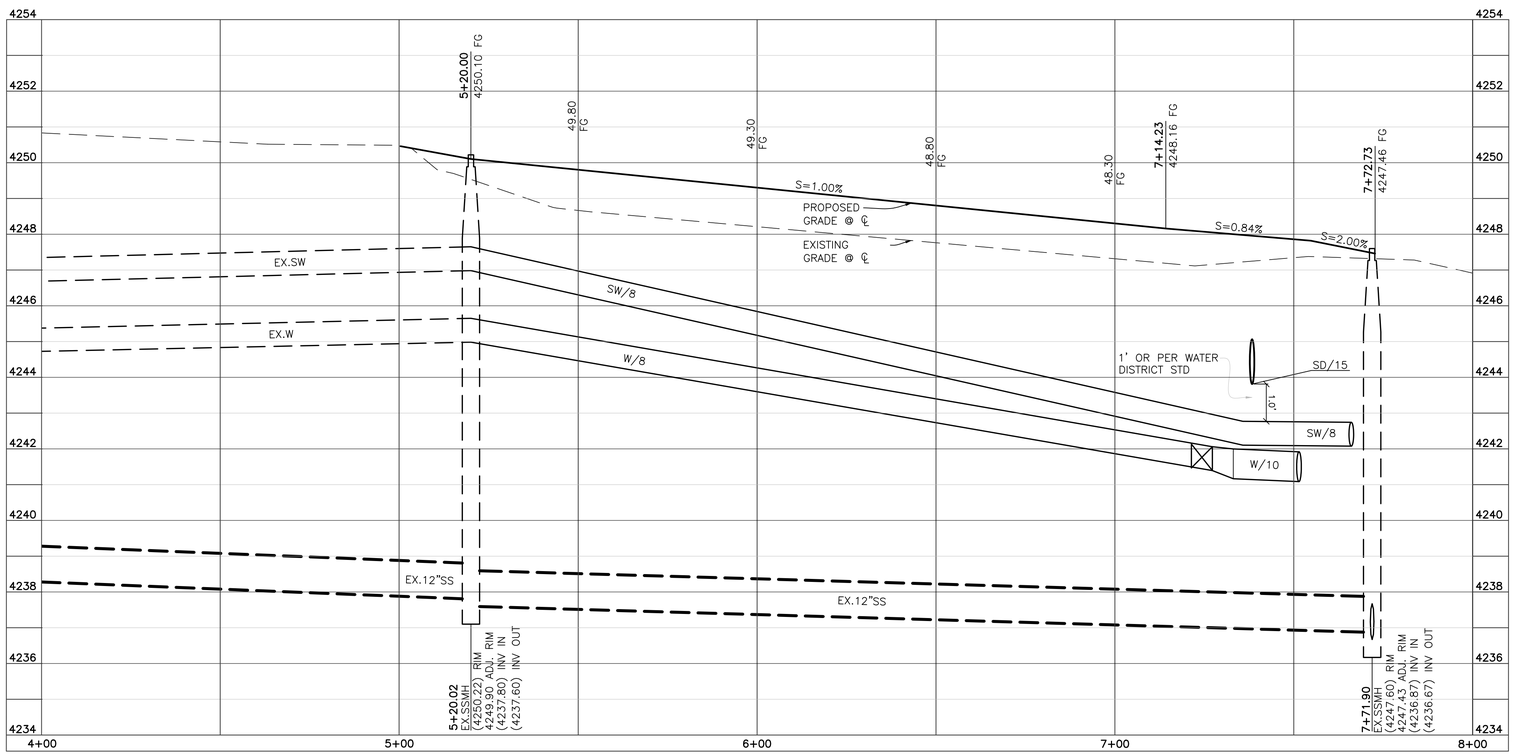
4000 West Street

20 0 20 40 60

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

TBC Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C1	89°54'36"	20.00'	31.38'	19.97'	N44°14'27"W	28.26'
C14	90°05'24"	20.00'	31.45'	20.03'	S45°45'33"W	28.31'



Reeve & Associates, Inc.
5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405
TEL: (801) 621-3100 FAX: (801) 621-2666 www.reeve-assoc.com
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
10-17-17 CK	Final Internal Review
12-12-17 CK	Irrigation Comments
04-03-18 CK	County Review

Cameron Cove Cluster Subdivision

WEBER COUNTY, UTAH

4000 West Street
4+00.00 - 8+00.00

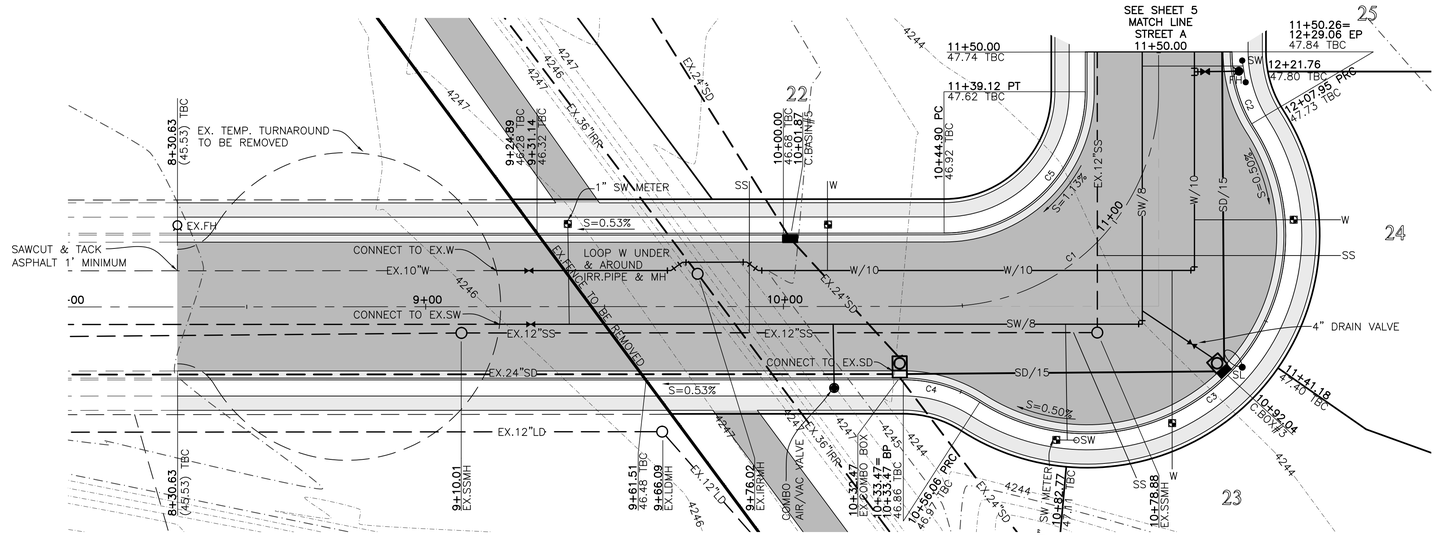
REGISTERED PROFESSIONAL ENGINEER
375328
J. NATE REEVE
4/3/18
STATE OF UTAH

Project Info.

Engineer: J. NATE REEVE, P.E.
Drafter: C. KINGSLEY
Begin Date: JUNE 2017
Name: CAMERON COVE CLUSTER SUBDIVISION
Number: 3442-A48

Sheet 3 of 16 Sheets

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



4065 West Street

20 0 20 40 60

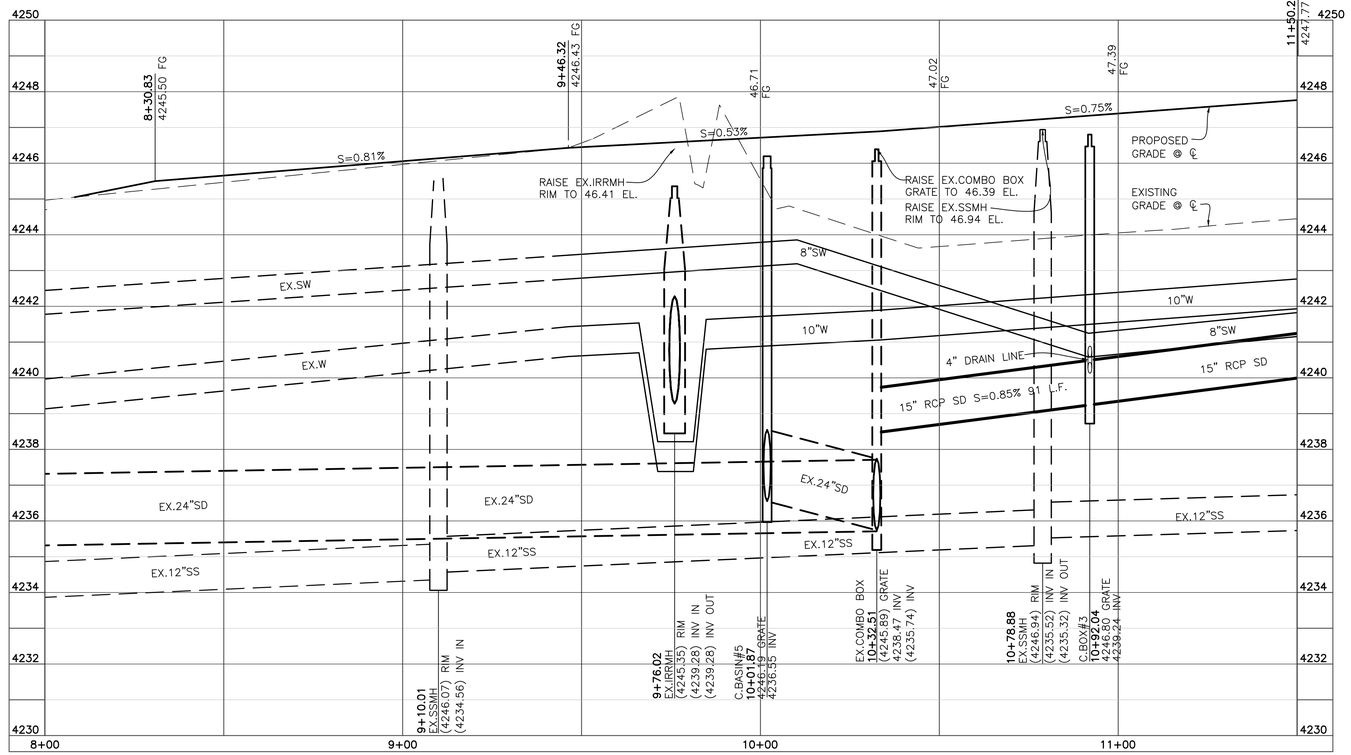
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'

TBC Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C2	32°38'13"	39.50'	22.50'	11.56'	S74°29'09"W	22.20'
C3	155°22'29"	55.50'	150.50'	254.28'	S44°08'43"E	108.45'
C4	32°45'45"	39.50'	22.59'	11.61'	N17°09'39"E	22.28'
C5	89°58'31"	39.50'	62.03'	39.48'	S44°12'29"E	55.85'

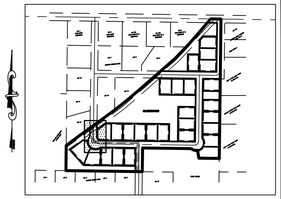
Centerline Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C1	89°58'31"	60.00'	94.22'	59.97'	S44°12'29"E	84.83'



Key Map

NOT TO SCALE



Construction Notes:

1) ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY.

CULINARY WATER

W/10 – 10" PVC C-900 CLASS 200 WATER

STORM DRAIN

SD/15 – 15" RCP STORM DRAIN
SD/18 – 18" RCP STORM DRAIN

SANITARY SEWER

SS/8 – 8" PVC C-900 SEWER LINE

SECONDARY WATER

SW/8 – 8" PVC C-900 SECONDARY WATER LINE
SW – 2" PVC C-900 SECONDARY WATER LATERAL

Reeve & Associates, Inc.
5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405
TEL: (801) 621-3100 FAX: (801) 621-2666 www.reeve-assoc.com
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
10-17-17	CK Final Internal Review
12-12-17	CK Irrigation Comments
04-03-18	CK County Review

Cameron Cove Cluster Subdivision

WEBER COUNTY, UTAH

4065 West Street 9+00.00 - 11+50.00

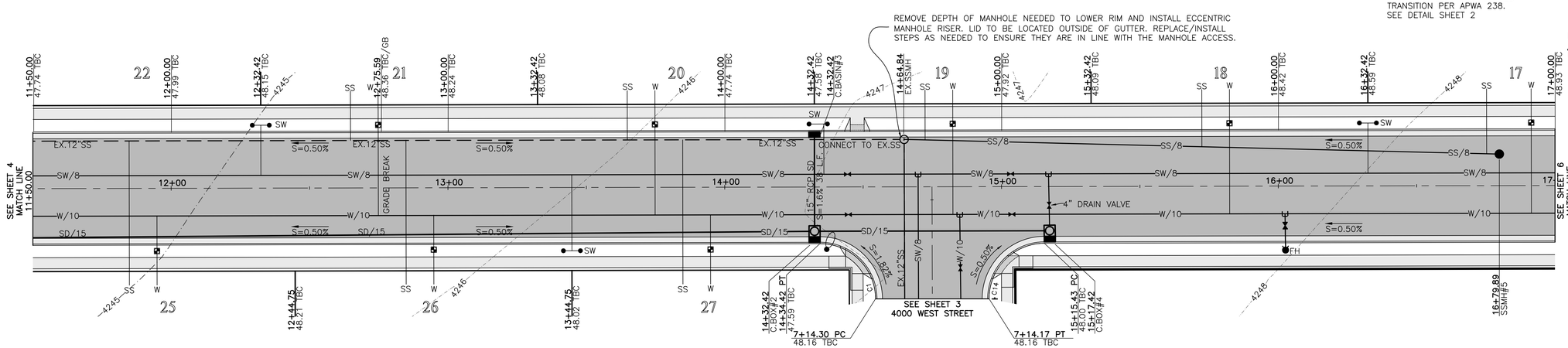
REGISTERED PROFESSIONAL ENGINEER
375328
J. NATE REEVE
4/3/18
STATE OF UTAH

Project Info.

Engineer: J. NATE REEVE, P.E.
Drafter: C. KINGSLEY
Begin Date: JUNE 2017
Name: CAMERON COVE CLUSTER SUBDIVISION
Number: 3442-A48

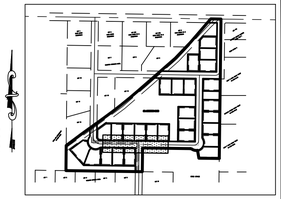
Sheet 4 of 16 Sheets

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



Key Map

NOT TO SCALE



Construction Notes:

1) ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY.

CULINARY WATER

W/10 – 10" PVC C-900 CLASS 200 WATER

STORM DRAIN

SD/15 – 15" RCP STORM DRAIN
SD/18 – 18" RCP STORM DRAIN

SANITARY SEWER

SS/8 – 8" PVC C-900 SEWER LINE

SECONDARY WATER

SW/8 – 8" PVC C-900 SECONDARY WATER LINE
SW – 2" PVC C-900 SECONDARY WATER LATERAL

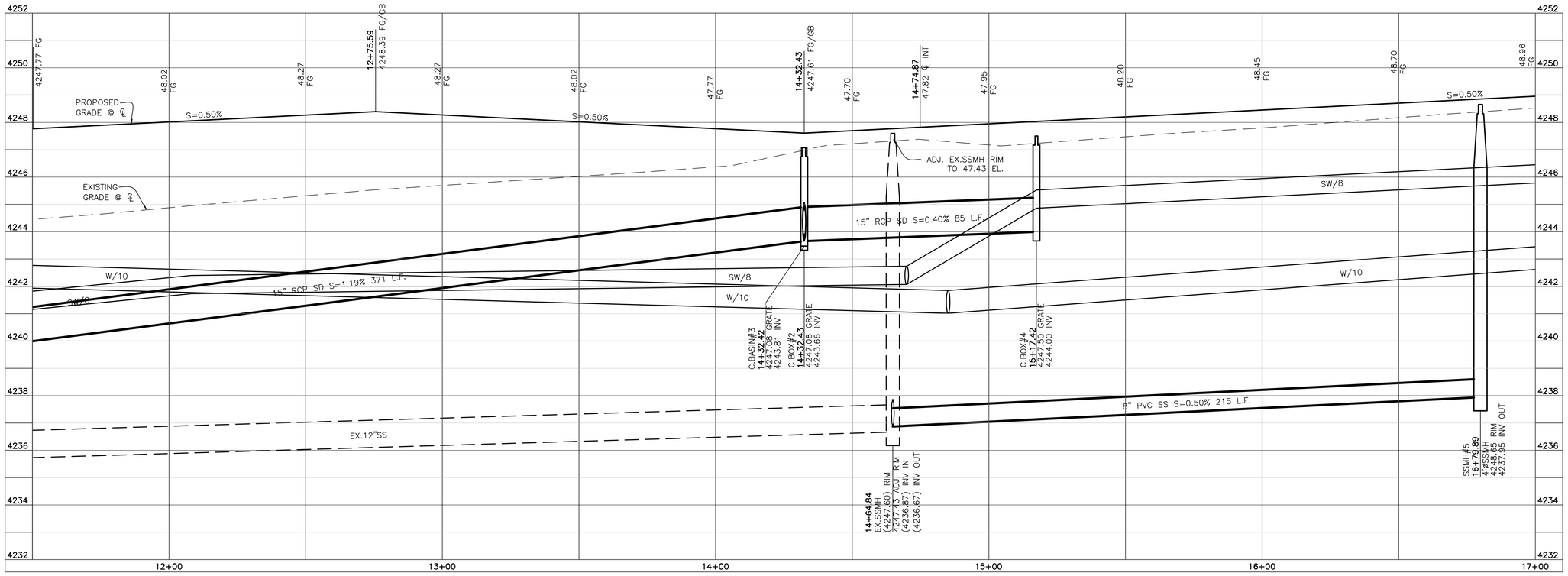
Street A

20 0 20 40 60

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

TBC Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C1	89°54'36"	20.00'	31.38'	19.97'	N44°14'27"W	28.26'
C14	90°05'24"	20.00'	31.45'	20.03'	S45°45'33"W	28.31'



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) 621-3100 FAX: (801) 621-2666 www.reeve-assoc.com
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
10-17-17	CK Final Internal Review
12-12-17	CK Irrigation Comments
04-03-18	CK County Review

Cameron Cove Cluster Subdivision

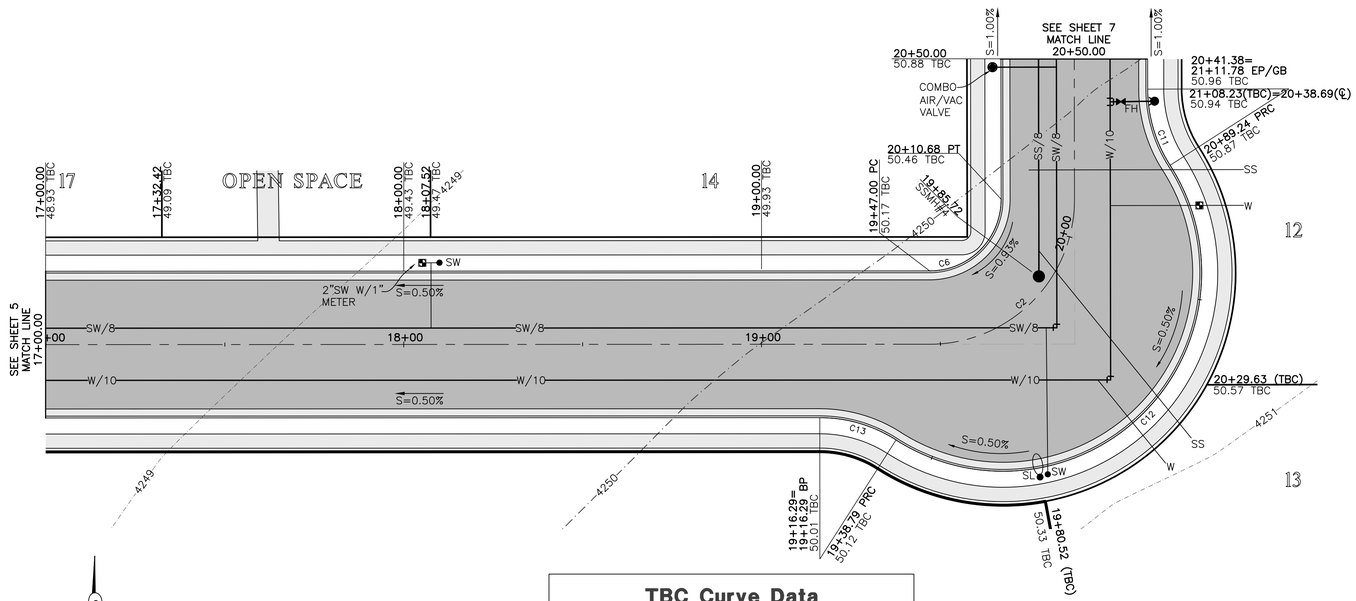
WEBER COUNTY, UTAH

Street A
11+50.00 - 17+00.00

REGISTERED PROFESSIONAL ENGINEER
375326
J. NATE REEVE
4/3/18
STATE OF UTAH

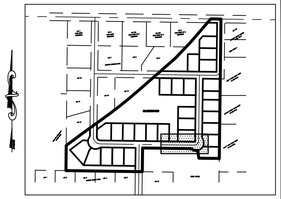
Project Info.
Engineer: J. NATE REEVE, P.E.
Drafter: C. KINGSLEY
Begin Date: JUNE 2017
Name: CAMERON COVE CLUSTER SUBDIVISION
Number: 3442-A48

Sheet 5 of 16 Sheets



Key Map

NOT TO SCALE



Construction Notes:

1) ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY.

CULINARY WATER

W/10 – 10" PVC C-900 CLASS 200 WATER

STORM DRAIN

SD/15 – 15" RCP STORM DRAIN
SD/18 – 18" RCP STORM DRAIN

SANITARY SEWER

SS/8 – 8" PVC C-900 SEWER LINE

SECONDARY WATER

SW/8 – 8" PVC C-900 SECONDARY WATER LINE
SW – 2" PVC C-900 SECONDARY WATER LATERAL

Street A

20 0 20 40 60

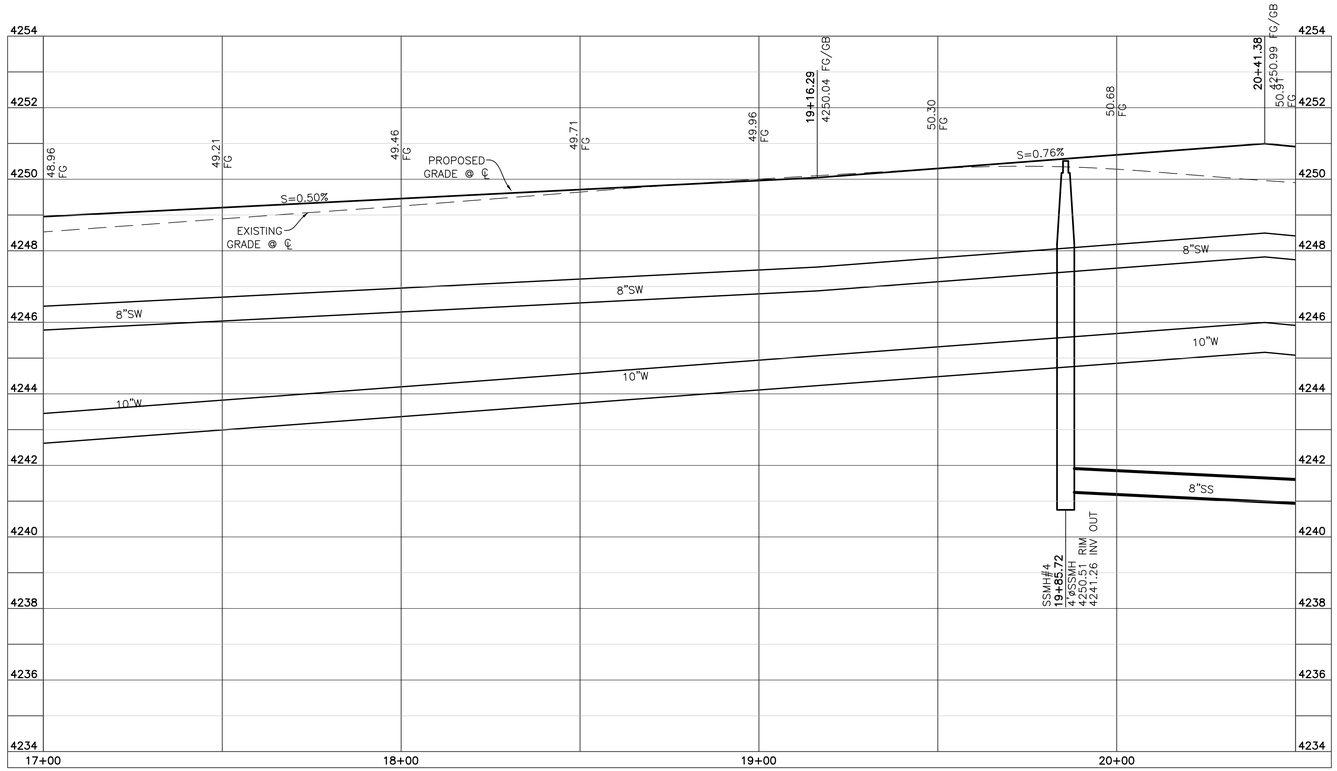
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'

TBC Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C6	90°05'18"	20.00'	31.45'	20.03'	N45°45'36"E	28.31'
C11	32°38'00"	39.50'	22.50'	11.56'	S15°36'03"E	22.19'
C12	155°19'22"	55.50'	150.45'	253.72'	N45°46'47"E	108.44'
C13	32°38'13"	39.50'	22.50'	11.56'	N72°52'39"W	22.20'

Centerline Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C2	90°05'18"	40.50'	63.68'	40.56'	N45°45'36"E	57.32'



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) 621-3100 FAX: (801) 621-2666 www.reeve-assoc.com
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
10-17-17	CK Final Internal Review
12-12-17	CK Irrigation Comments
04-03-18	CK County Review

Cameron Cove Cluster Subdivision

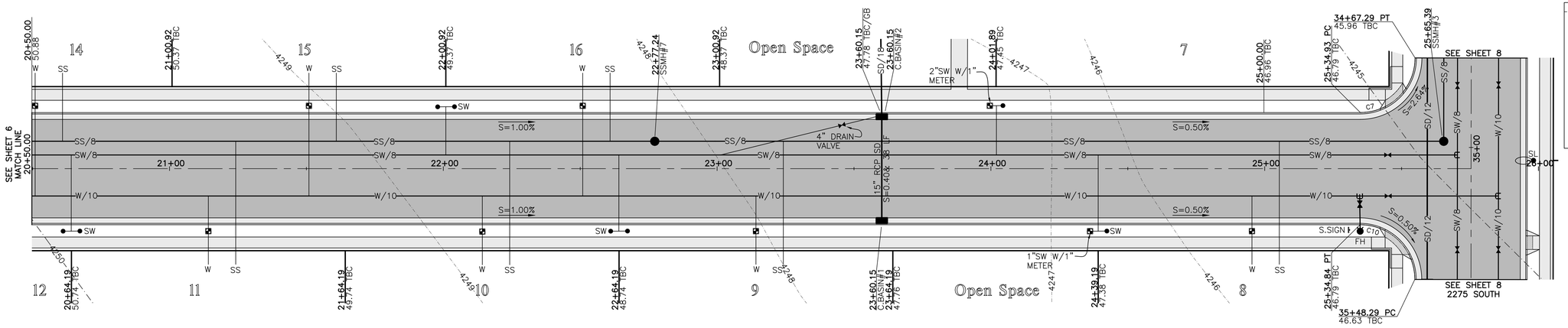
WEBER COUNTY, UTAH

Street A
17+00.00 - 20+50.00

REGISTERED PROFESSIONAL ENGINEER
375328
J. NATE REEVE
4/3/18
STATE OF UTAH

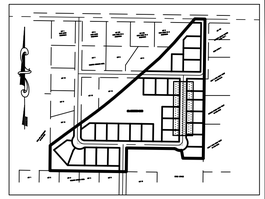
Project Info.
Engineer: J. NATE REEVE, P.E.
Drafter: C. KINGSLEY
Begin Date: JUNE 2017
Name: CAMERON COVE CLUSTER SUBDIVISION
Number: 3442-A48

Sheet 6 of 16 Sheets



Key Map

NOT TO SCALE



Construction Notes:

1) ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY.

CULINARY WATER

W/10 – 10" PVC C-900 CLASS 200 WATER

STORM DRAIN

SD/15 – 15" RCP STORM DRAIN
SD/18 – 18" RCP STORM DRAIN

SANITARY SEWER

SS/8 – 8" PVC C-900 SEWER LINE

SECONDARY WATER

SW/8 – 8" PVC C-900 SECONDARY WATER LINE
SW – 2" PVC C-900 SECONDARY WATER LATERAL

Street B

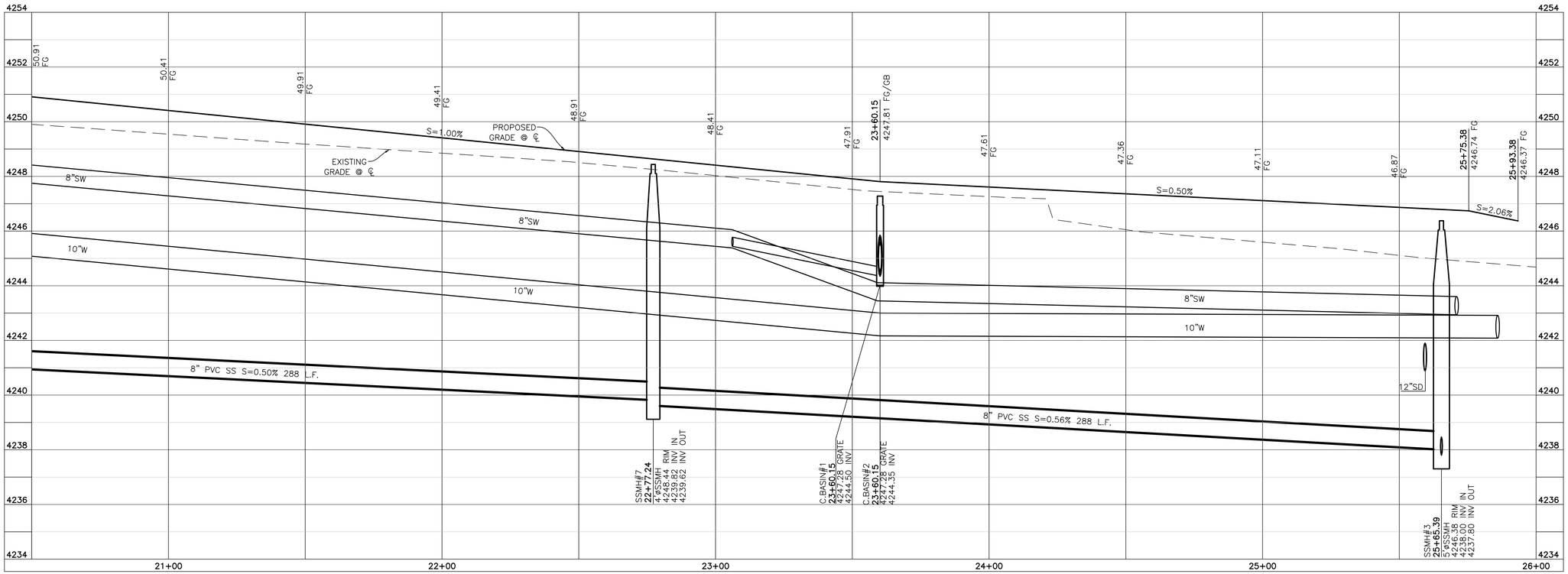
20 0 20 40 60

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

TBC Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C7	89°56'11"	20.00'	31.39'	19.98'	N44°15'09"W	28.27'
C10	90°03'49"	20.00'	31.44'	20.02'	S45°44'51"W	28.30'

NOTE:
ADA RAMPS PER MODIFIED APWA 235 EXAMPLE A WITH FLARED TRANSITION PER APWA 238.
SEE DETAIL SHEET 2



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) 621-3100 FAX: (801) 621-2666 www.reeve-assoc.com
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
10-17-17	CK Final Internal Review
12-12-17	CK Irrigation Comments
04-03-18	CK County Review

Cameron Cove Cluster Subdivision

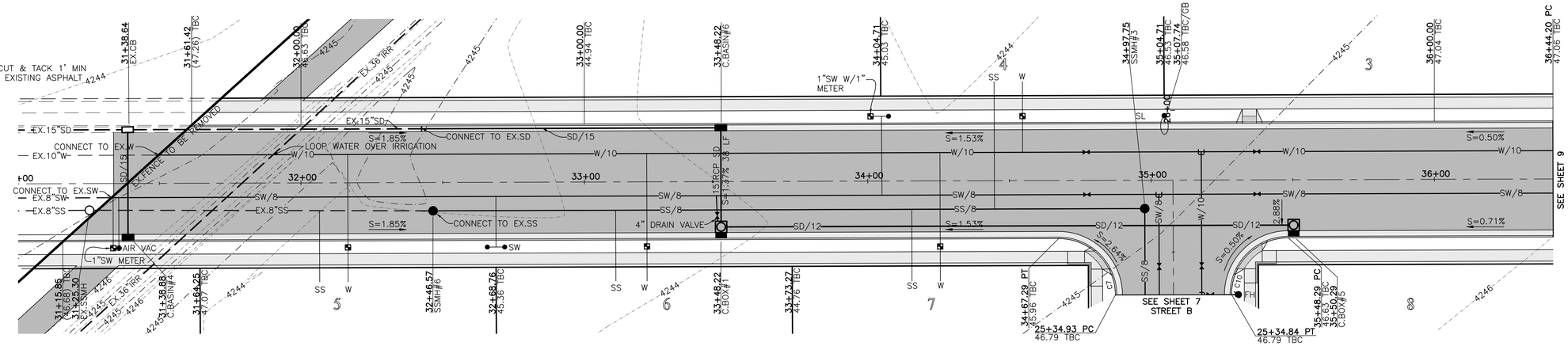
WEBER COUNTY, UTAH

Street B
20+50.00 - 26+00.00

REGISTERED PROFESSIONAL ENGINEER
375326
J. NATE REEVE
4/3/18
STATE OF UTAH

Project Info.
Engineer: J. NATE REEVE, P.E.
Drafter: C. KINGSLEY
Begin Date: JUNE 2017
Name: CAMERON COVE CLUSTER SUBDIVISION
Number: 3442-A48

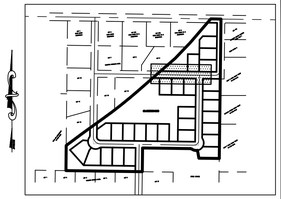
Sheet 7 of 16 Sheets



NOTE:
ADA RAMPS PER MODIFIED APWA 235 EXAMPLE A WITH FLARED TRANSITION PER APWA 238.
SEE DETAIL SHEET 2

Key Map

NOT TO SCALE



Construction Notes:

1) ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY.

CULINARY WATER

W/10 – 10" PVC C-900 CLASS 200 WATER

STORM DRAIN

SD/15 – 15" RCP STORM DRAIN
SD/18 – 18" RCP STORM DRAIN

SANITARY SEWER

SS/8 – 8" PVC C-900 SEWER LINE

SECONDARY WATER

SW/8 – 8" PVC C-900 SECONDARY WATER LINE
SW – 2" PVC C-900 SECONDARY WATER LATERAL

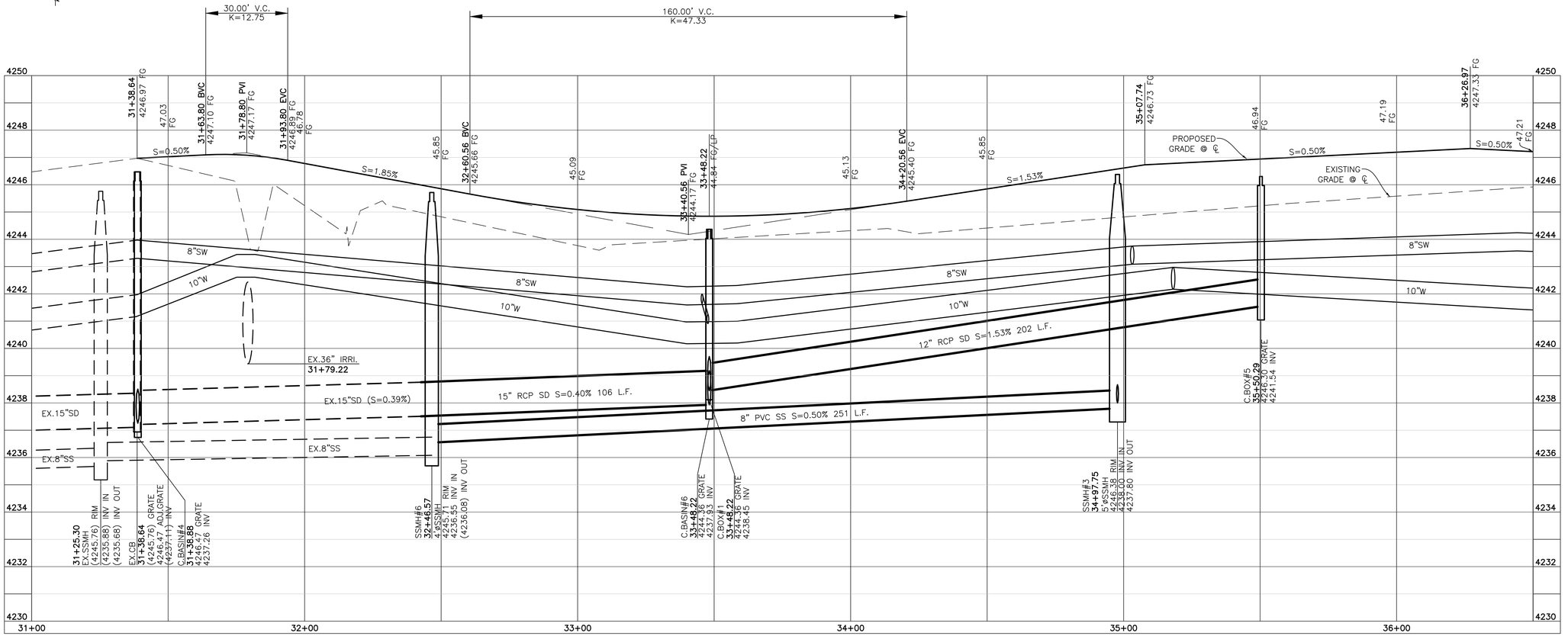
TBC Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C7	89°56'11"	20.00'	31.39'	19.98'	N44°15'09"W	28.27'
C10	90°03'49"	20.00'	31.44'	20.02'	S45°44'51"W	28.30'

2275 South Street

20 0 20 40 60

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



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

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. DISCLAIM ANY LIABILITY FOR ANY CHANGES OR MODIFICATIONS MADE TO THESE PLANS OR THE DESIGN THEREON WITHOUT THEIR CONSENT.

Reeve & Associates, Inc.
5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405
TEL: (801) 621-3100 FAX: (801) 621-2666 www.reeve-assoc.com
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
10-17-17	CK Final Internal Review
12-12-17	CK Irrigation Comments
04-03-18	CK County Review

Cameron Cove Cluster Subdivision

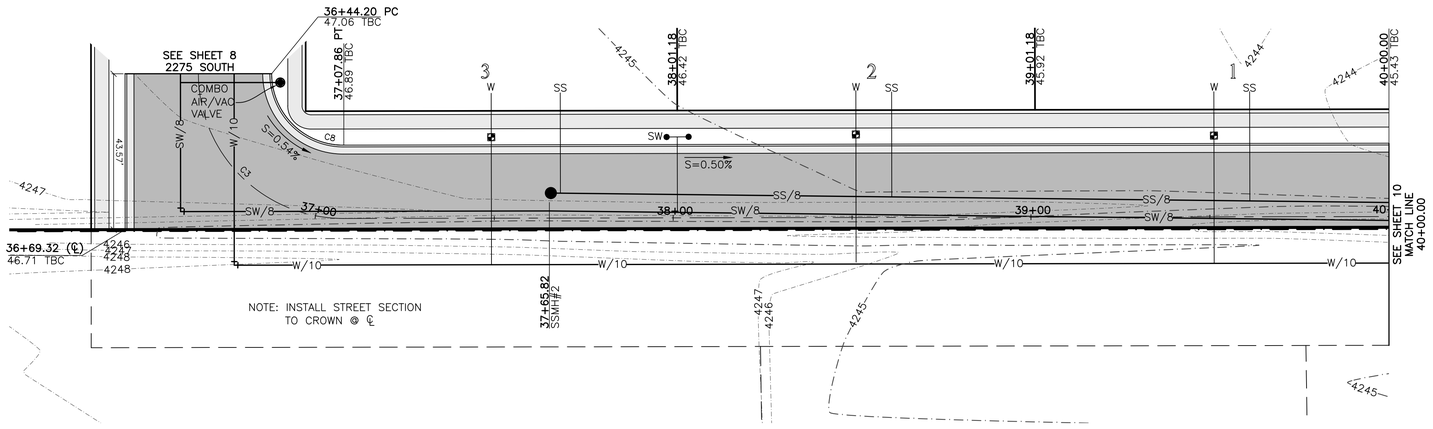
WEBER COUNTY, UTAH

2275 South Street
31+00.00 - 36+50.00

REGISTERED PROFESSIONAL ENGINEER
3753526
J. NATE REEVE
4/3/18
STATE OF UTAH

Project Info.
Engineer: J. NATE REEVE, P.E.
Drafter: C. KINGSLEY
Begin Date: JUNE 2017
Name: CAMERON COVE CLUSTER SUBDIVISION
Number: 3442-A48

Sheet 8 of 16 Sheets



3900 West Street

20 0 20 40 60

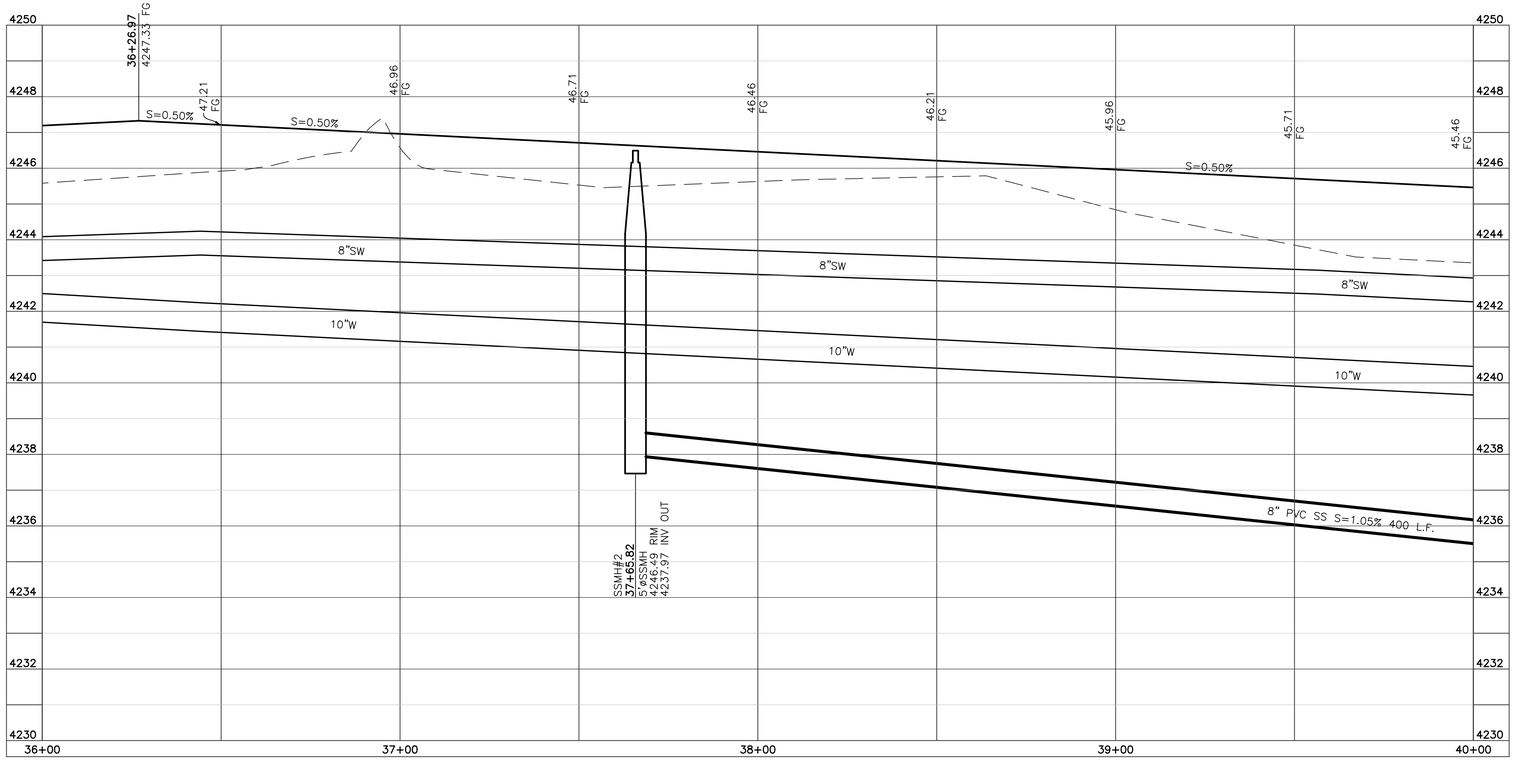
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'

TBC Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C8	90°03'49"	20.00'	31.44'	20.02'	N45°44'51"E	28.30'

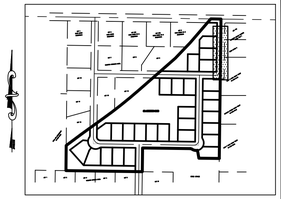
Centerline Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C3	90°03'53"	40.50'	63.66'	40.55'	N45°44'49"E	57.31'



Key Map

NOT TO SCALE



Construction Notes:

1) ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY.

CULINARY WATER

W/10 – 10" PVC C-900 CLASS 200 WATER

STORM DRAIN

SD/15 – 15" RCP STORM DRAIN
SD/18 – 18" RCP STORM DRAIN

SANITARY SEWER

SS/8 – 8" PVC C-900 SEWER LINE

SECONDARY WATER

SW/8 – 8" PVC C-900 SECONDARY WATER LINE
SW – 2" PVC C-900 SECONDARY WATER LATERAL

Reeve & Associates, Inc.
5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405
TEL: (801) 621-3100 FAX: (801) 621-2666 www.reeve-assoc.com
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
10-17-17 CK	Final Internal Review
12-12-17 CK	Irrigation Comments
04-03-18 CK	County Review

Cameron Cove Cluster Subdivision

WEBER COUNTY, UTAH

3900 West Street
36+00.00 - 40+00.00

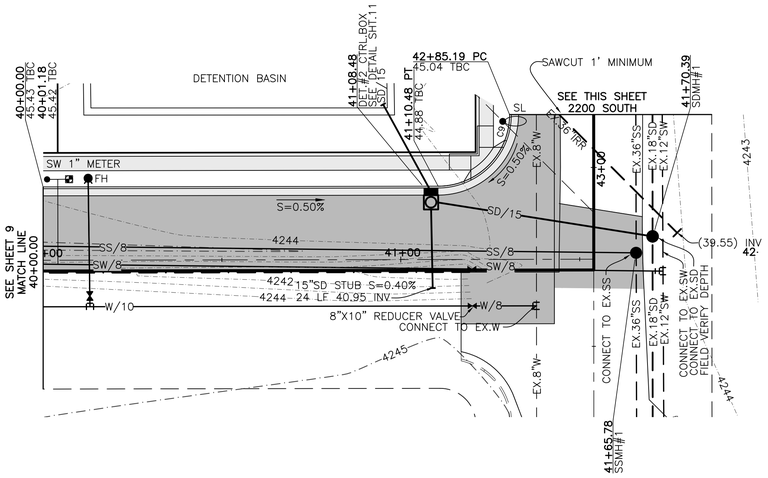
REGISTERED PROFESSIONAL ENGINEER
375328
J. NATE REEVE
4/3/18
STATE OF UTAH

Project Info.

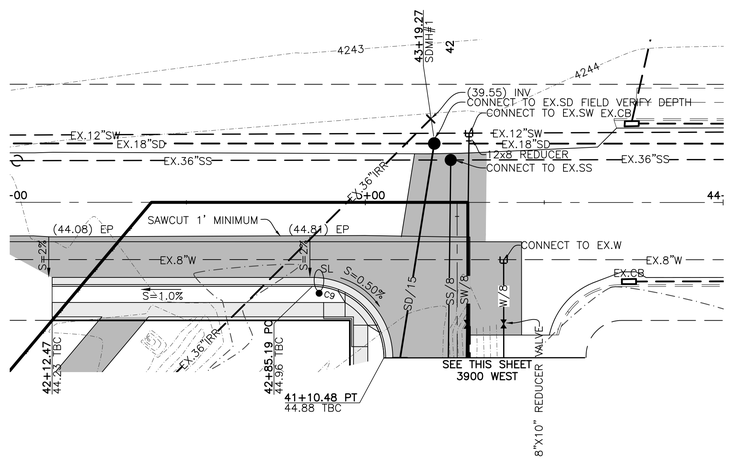
Engineer: J. NATE REEVE, P.E.
Drafter: C. KINGSLEY
Begin Date: JUNE 2017
Name: CAMERON COVE CLUSTER SUBDIVISION
Number: 3442-A48

Sheet 9 of 16 Sheets

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

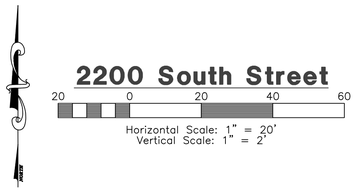


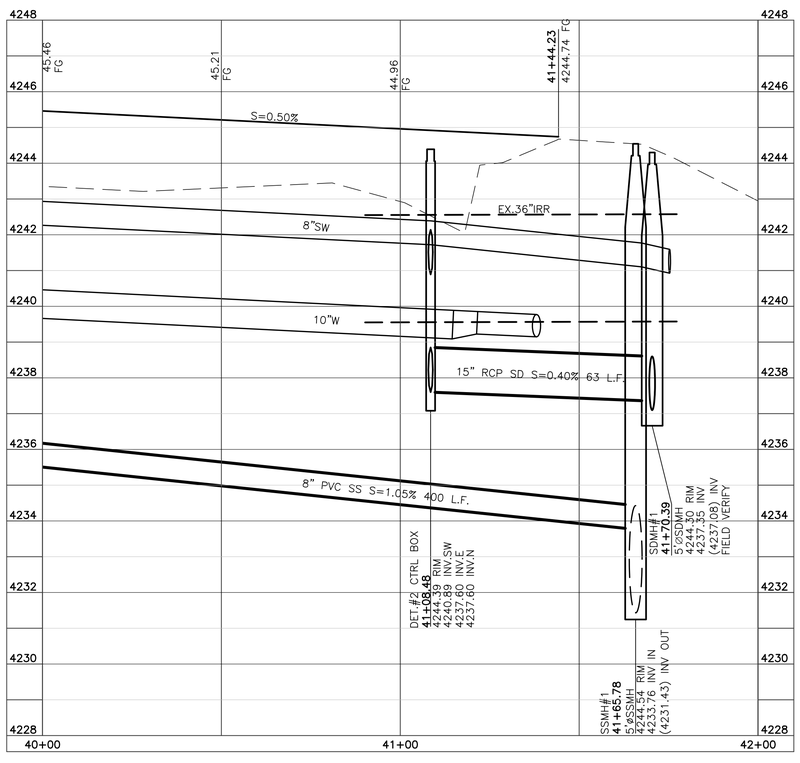
NOTE:
ADA RAMPS PER MODIFIED APWA 235 EXAMPLE A WITH FLARED TRANSITION PER APWA 238.
SEE DETAIL SHEET 2

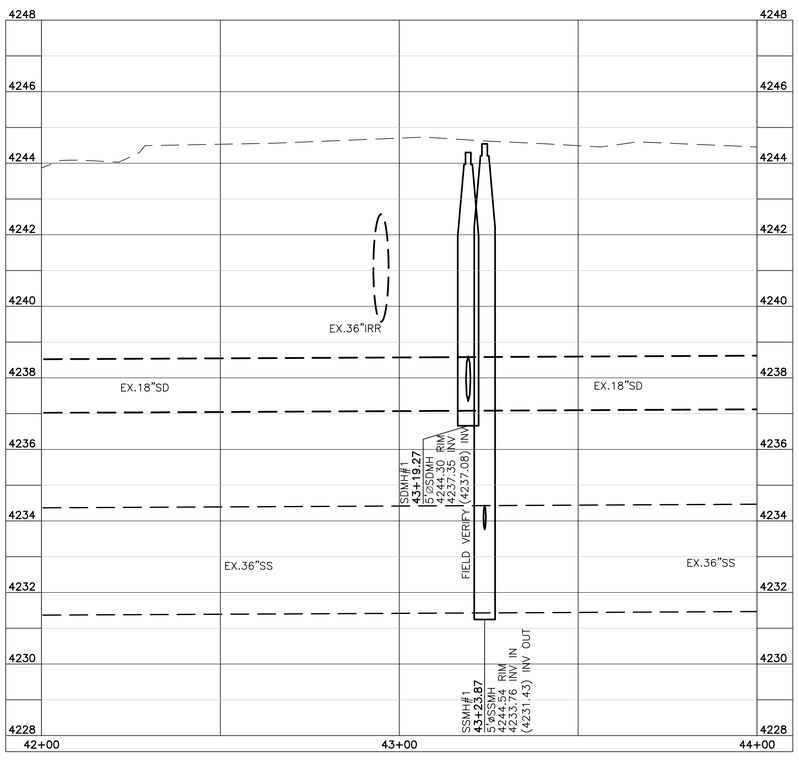


TBC Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C9	89°56'28"	20.00'	31.40'	19.98'	N44°15'17"W	28.27'

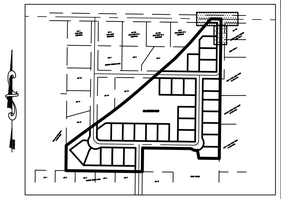






Key Map

NOT TO SCALE



Construction Notes:

1) ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY.

CULINARY WATER

W/10 – 10" PVC C-900 CLASS 200 WATER

STORM DRAIN

SD/15 – 15" RCP STORM DRAIN
SD/18 – 18" RCP STORM DRAIN

SANITARY SEWER

SS/8 – 8" PVC C-900 SEWER LINE

SECONDARY WATER

SW/8 – 8" PVC C-900 SECONDARY WATER LINE
SW – 2" PVC C-900 SECONDARY WATER LATERAL

Reeve & Associates, Inc.
5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405
TEL: (801) 621-3100 FAX: (801) 621-2666 www.reve-assoc.com
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
10-17-17	CK Final Internal Review
12-12-17	CK Irrigation Comments
04-03-18	CK County Review

Cameron Cove Cluster Subdivision

WEBER COUNTY, UTAH

3900 West Street 40+00 - 42+00

2200 South Street 42+00 - 44+00

REGISTERED PROFESSIONAL ENGINEER
376328
J. NATE REEVE
4/3/18
STATE OF UTAH

Project Info.
Engineer: J. NATE REEVE, P.E.
Drafter: C. KINGSLEY
Begin Date: JUNE 2017
Name: CAMERON COVE CLUSTER SUBDIVISION
Number: 3442-A4B

Sheet 10 of 16 Sheets

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

Existing Detention Basin

Combined Storm Runoff Calculations

Cameron Crossing, Cameron Cove & Mallard Springs Subdivisions

4/6/2017 KHH

The following runoff calculations are based on the Rainfall - Intensity - Duration Frequency Curve for the West Haven, UT area taken from data compiled by NOAA Atlas14, using a 100-year storm event.

Runoff storm water has been calculated for two different sets of conditions, one being the existing undeveloped land and the other with land fully improved. The difference between the two quantities will be detained in a holding pond and discharged at its historical rate of 0.1 cfs/acre.

In case of a storm even greater than the 100-year storm, an emergency spillway has been designed for the storm water to overtop the baffle wall in the control box and follow its historical path.

The calculations are as follows:

1. Project Site Drainage Area:

Runoff Coefficients

Paved Area	441,213	C = 0.95
Landscaped Area	1,663,351	C = 0.20
Roof	190,136	C = 0.95
Weighted Runoff Coefficient		C = 0.41

2. Time of Concentration:

Tc from Project Site = 60 minutes

3. Rainfall Intensities:

Rainfall Intensities were obtained from the Rainfall - Intensity - Duration Frequency Curve for the West Haven, UT are taken and compiled by NOAA Atlas 14 for the 100-year storm event.

Rainfall Intensity for a 60 minute Time of Concentration 1.74 in/hr

4. Peak Run-off:

Runoff Coefficient	C =	0.41
Rainfall Intensity	i =	1.74 IN./HR.
Acreage	A =	52.68 ACRES
Runoff Quantity	Q =	CiA
Q (total)	**Q =**	**37.25 cfs**

5. Allowable Discharge:

Allowable Discharge of Storm Water Volume (pre-development) is 0.1 cfs per acre.

Allowable Discharge Q = (0.1 x acres)

Allowable Discharge =	**Q =**	**5.91 cfs**	**(total allowable discharge)**
Limit Basin to =	**Q =**	**1.05 cfs**	**(total - peak flow from cameron crossing)**

Section

Plan

3"ø ORIFICE TO PREVENT CLOGGING & FOR CONSTRUCTABILITY.

Detention Basin#2 Control Box

SCALE: 1" = 2'

SEE SHEET 12 FOR DETENTION BASIN #2 CALCULATIONS

6. Volume of Run-off for 100-year Storm Event

C = 0.41
A = 52.68
Q(out) = 1.05 (based on combined allowed outflow)

time (min)	time (sec)	i (in./hr.)	Q (cfs)	Vol. in (cf)	Vol. out (cf)	Difference (cf)
0	0	0.00	0.00	0	0	0
5	300	6.64	142.14	42641	316	42325
10	600	5.05	108.10	64861	632	64229
15	900	4.17	89.26	80337	948	79389
30	1800	2.81	60.15	108272	1896	106377
60	3600	1.74	37.25	134088	3791	130297
180	10800	0.65	13.91	150271	11374	138898
360	21600	0.36	7.71	166454	22747	143707
720	43200	0.22	4.71	203444	45495	157950
1440	86400	0.13	2.78	240434	90989	149445

Required Detention Volume 138898 c.f.

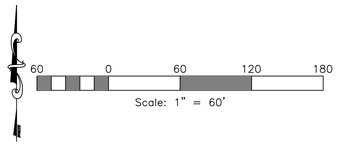
7. Orifice Sizing

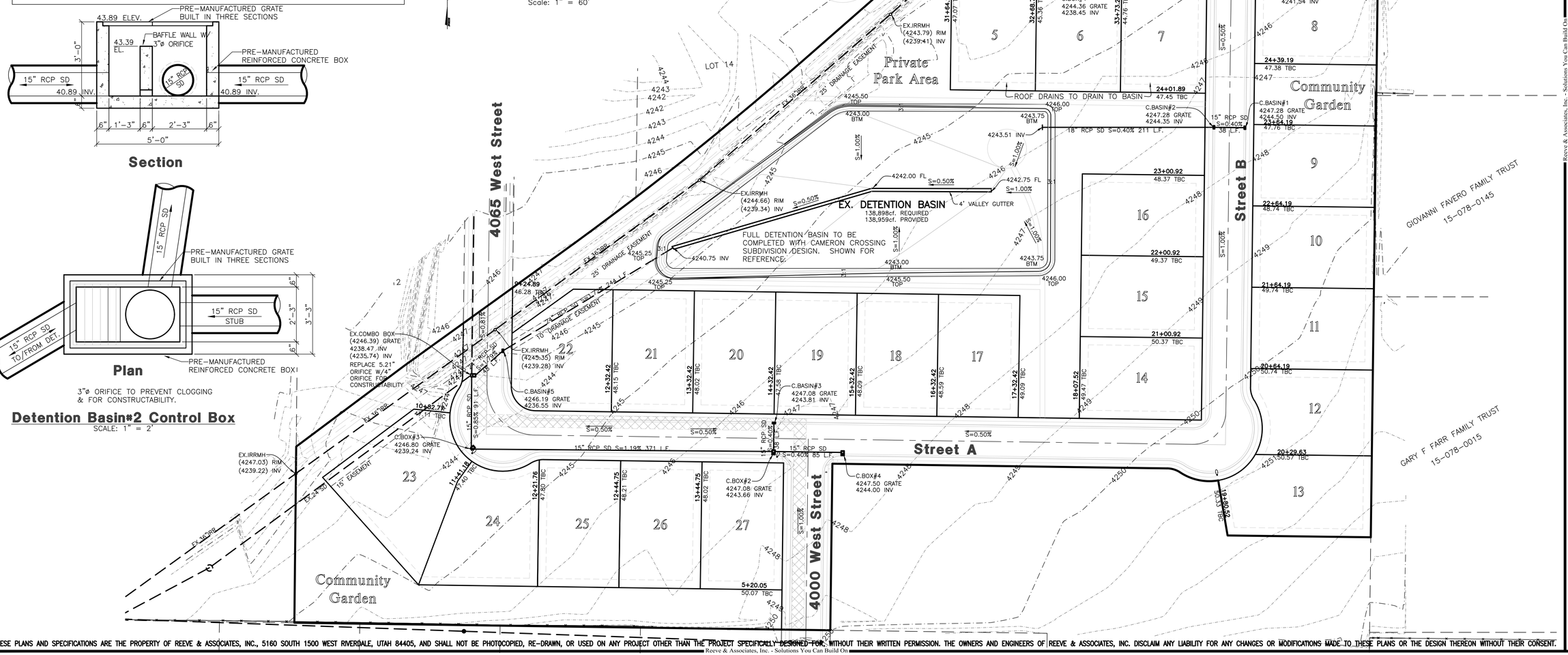
Given: Q = 1.05 cfs (0.1 cfs/acre)
2g = 64.4 ft/s²
H = 3.50 ft
Cd = 0.7 for circular openings
D= SQRT(Q/(0.7*(64.4*H)^0.5))
D= 0.32 feet
D= 3.80 inches

SUMMARY:

The required volume of the detention basin is 138,898 cubic feet
Orifice Diameter at Outlet is 3.80 inches

USE A 4"ø ORIFICE FOR CONSTRUCTABILITY





Reeve & Associates, Inc.
5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405
TEL: (801) 621-3100 FAX: (801) 621-2666 www.reeve-assoc.com
LAND PLANNERS * CIVIL ENGINEERS * LAND SURVEYORS
TRAFFIC ENGINEERS * STRUCTURAL ENGINEERS * LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
10-17-17	CK Final Internal Review
12-12-17	CK Irrigation Comments
04-03-18	CK County Review

Cameron Cove Cluster Subdivision

WEBER COUNTY, UTAH

Grading & Drainage Plan

REGISTERED PROFESSIONAL ENGINEER 375326 J. NATE REEVE 4/3/18 STATE OF UTAH

Project Info.

Engineer: J. NATE REEVE, P.E.
Drafter: C. KINGSLEY
Begin Date: JUNE 2017
Name: CAMERON COVE CLUSTER SUBDIVISION
Number: 3442-A48

Sheet 11 of 16 Sheets

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

Detention Basin#2

Storm Runoff Calculations

Cameron Cove Subdivision- Secondary Basin

4/6/2017 KHH

The following runoff calculations are based on the Rainfall - Intensity - Duration Frequency Curve for the West Haven, UT area taken from data compiled by NOAA Atlas14, using a 100-year storm event.

Runoff storm water has been calculated for two different sets of conditions, one being the existing undeveloped land and the other with land fully improved. The difference between the two quantities will be detained in a holding pond and discharged at its historical rate of 0.2 cfs/acre.

In case of a storm even greater than the 100-year storm, an emergency spillway has been designed for the storm water to overtop the baffle wall in the control box and follow its historical path.

The calculations are as follows:

1. Project Site Drainage Area:

Runoff Coefficients

Paved Area	258,660	C = 0.95
Landscaped Area	867,219	C = 0.20
Roof	95,000	C = 0.95
Weighted Runoff Coefficient		C = 0.42

2. Time of Concentration:

Tc from Project Site = 60 minutes

3. Rainfall Intensities:

Rainfall Intensities were obtained from the Rainfall - Intensity - Duration Frequency Curve for the West Haven, UT are taken and compiled by NOAA Atlas 14 for the 100-year storm event.

Rainfall Intensity for a 60 minute Time of Concentrati 1.74 in/hr

4. Peak Run-off:

Runoff Coefficient	C =	0.42
Rainfall Intensity	i =	1.74 IN./HR.
Acreage	A =	1.69 ACRES
Runoff Quantity	Q =	CiA
Q (total)	**Q =**	**1.22 cfs**

5. Allowable Discharge:

Allowable Discharge of Storm Water Volume (pre-development) is 0.1cfs per acre.

Allowable Discharge Q = (0.1 x acres)

Allowable Discharge = Q = 0.17 cfs

SEE SHEET 11 FOR EXISTING DETENTION BASIN CALCULATIONS

6. Volume of Run-off for 100-year Storm Event

C = 0.42
A = 1.69
Q(out) = 0.17 (based on 0.1 cfs/acre)

time (min)	time (sec)	i (in./hr.)	Q (cfs)	Vol. in (cf)	Vol. out (cf)	Difference (cf)
0	0	0.00	0.00	0	0	0
5	300	6.64	4.67	1401	51	1351
10	600	5.05	3.55	2132	101	2031
15	900	4.17	2.93	2640	152	2489
30	1800	2.81	1.98	3559	304	3255
60	3600	1.74	1.22	4407	607	3800
180	10800	0.65	0.46	4939	1821	3118
360	21600	0.36	0.25	5471	3642	1829
720	43200	0.22	0.15	6686	7284	-598
1440	86400	0.13	0.09	7902	14568	-6666

Required Detention Volume 3800 c.f.

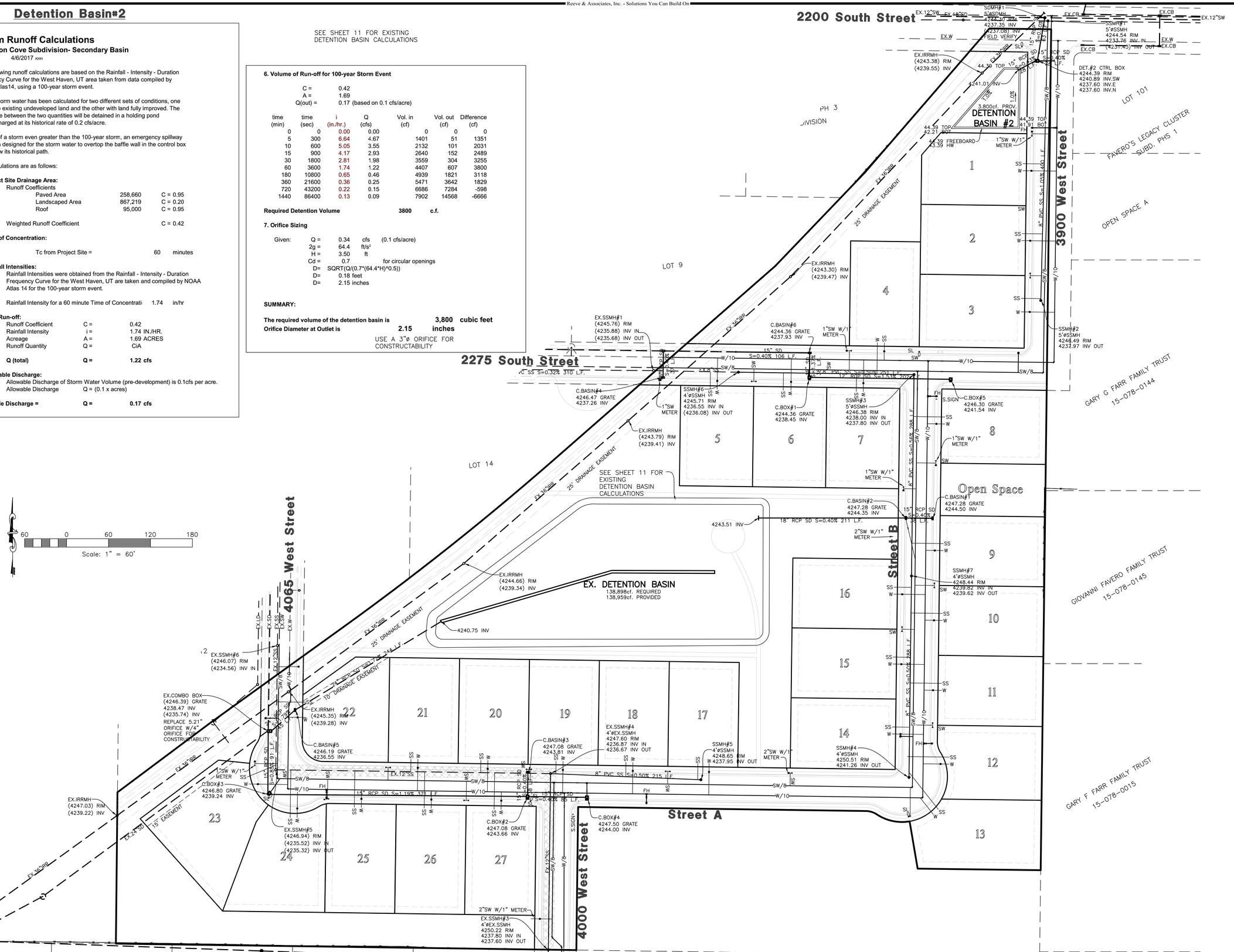
7. Orifice Sizing

Given: Q = 0.34 cfs (0.1 cfs/acre)
2g = 64.4 ft/s²
H = 3.50 ft
Cd = 0.7 for circular openings
D= SQRT(Q/(0.7*(64.4*H)^0.5))
D= 0.18 feet
D= 2.15 inches

SUMMARY:

The required volume of the detention basin is 3,800 cubic feet
Orifice Diameter at Outlet is 2.15 inches

USE A 3"ø ORIFICE FOR CONSTRUCTABILITY



Scale: 1" = 60'

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. DISCLAIM ANY LIABILITY FOR ANY CHANGES OR MODIFICATIONS MADE TO THESE PLANS OR THE DESIGN THEREON WITHOUT THEIR CONSENT.

Reeve & Associates, Inc.
5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405
TEL: (801) 621-3100 FAX: (801) 621-2666 www.reeve-assoc.com
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
10-17-17	CK Final Internal Review
12-12-17	CK Irrigation Comments
04-03-18	CK County Review

Cameron Cove Cluster Subdivision

WEBER COUNTY, UTAH

Utility Plan

REGISTERED PROFESSIONAL ENGINEER
3753326
J. NATE REEVE
4/3/18
STATE OF UTAH

Project Info.

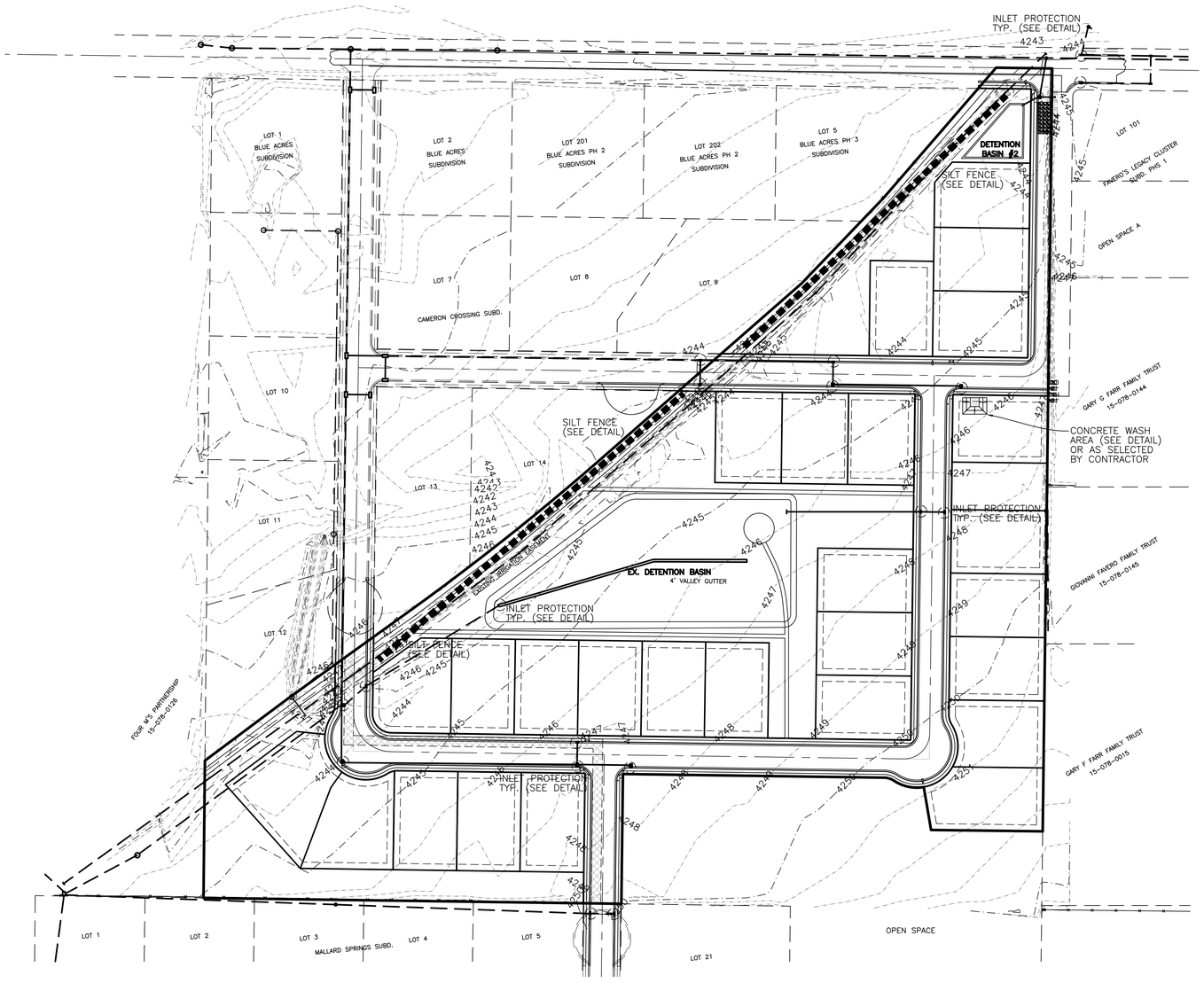
Engineer: J. NATE REEVE, P.E.
Drafter: C. KINGSLEY
Begin Date: JUNE 2017
Name: CAMERON COVE CLUSTER SUBDIVISION
Number: 3442-A48

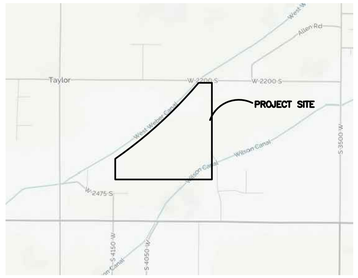
Sheet 12 of 16 Sheets

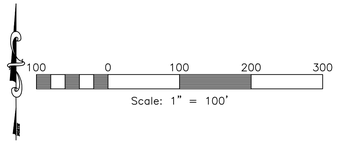
Cameron Cove Cluster Subdivision

Improvement Plans

WEBER COUNTY, UTAH
MARCH 2018







Construction Activity Schedule

- PROJECT LOCATION.....WEST HAVEN CITY, WEBER COUNTY, UTAH
- PROJECT BEGINNING DATE.....MARCH 2018
- BMP'S DEPLOYMENT DATE.....MARCH 2018
- STORM WATER MANAGEMENT CONTACT / INSPECTOR.....DOUG HAMBLIN (801) 725-3782
- 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) 621-3100 FAX: (801) 621-2666 www.reeve-assoc.com
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS

DATE		DESCRIPTION
10-17-17	CK	Final Internal Review
12-12-17	CK	Irrigation Comments
04-03-18	CK	County Review

Cameron Cove Cluster Subdivision
WEBER COUNTY, UTAH

Storm Water Pollution Prevention Plan Exhibit

REGISTERED PROFESSIONAL ENGINEER
376328
J. NATE REEVE
4/3/18
STATE OF UTAH

Project Info.

Engineer: J. NATE REEVE, P.E.
Drafter: C. KINGSLEY
Begin Date: JUNE 2017
Name: CAMERON COVE CLUSTER SUBDIVISION
Number: 3442-A48

Sheet 13 of 16 Sheets

Notes:

1. 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).

2. Describe BMP's to eliminate/reduce contamination of storm water from:
   a. Equipment / building / concrete wash areas:
      To be performed in designated areas only and surrounded with silt fence barriers.
   b. Soil contaminated by soil amendments:
      If any contaminates are found or generated, contact environmental engineer and contacts listed.
   c. Areas of contaminated soil:
      If any contaminates are found or generated, contact environmental engineer and contacts listed.
   d. Fueling area:
      To be performed in designated areas only and surrounded with silt fence.
   e. Vehicle maintenance areas:
      To be performed in designated areas only and surrounded with silt fence.
   f. Vehicle parking areas:
      To be performed in designated areas only and surrounded with silt fence.
   g. Equipment storage areas:
      To be performed in designated areas only and surrounded with silt fence.
   h. Materials storage areas:
      To be performed in designated areas only and surrounded with silt fence.
   i. Waste containment areas:
      To be performed in designated areas only and surrounded with silt fence.
   j. Service areas:
      To be performed in designated areas only and surrounded with silt fence.

3. BMP's for wind erosion:
   Stockpiles and site as needed to be watered regularly to eliminate / control wind erosion

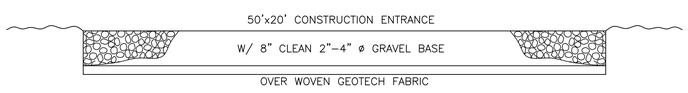
4. Construction Vehicles and Equipment:
   a. Maintenance
      – Maintain all construction equipment to prevent oil or other fluid leaks.
      – Keep vehicles and equipment clean, prevent excessive build–up of oil and grease.
      – Regularly inspect on–site vehicles and equipment for leaks, and repair 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.
   b. 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 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.
   c. 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.

5. Spill Prevention and Control
   a. 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.
   b. 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.

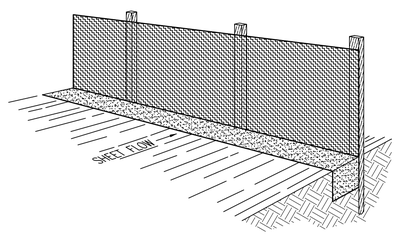
6. Post Roadway / Utility Construction
   a. Maintain good housekeeping practices.
   b. Enclose or cover building material storage areas.
   c. Properly store materials such as paints and solvents.
   d. Store dry and wet materials under cover, away from drainage areas.
   e. Avoid mixing excess amounts of fresh concrete or cement on–site.
   f. Perform washout of concrete trucks offsite or in designated areas only.
   g. Do not wash out concrete trucks into storm drains, open ditches, streets or streams.
   h. Do not place material or debris into streams, gutters or catch basins that stop or reduce the flow of runoff water.
   i. 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.
   j. Install straw wattle around all inlets contained within the development and all others that receive runoff from the development.

7. Erosion Control Plan Notes
   a. The contractor will designate an emergency contact that can be reached 24 hours a day 7 days a week.
   b. 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.
   d. Graded areas adjacent to fill slopes created 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.
   e. All silt and debris shall be removed from all devices within 24 hours after each rain or runoff event.
   f. 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.
   g. 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.
   h. The placement of additional devices to reduce erosion damage within the site is left to the discretion of the engineer of record.
   i. Desilting basins may not be removed or made inoperable without the approval of the engineer of record and the governing agency.
   j. 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.

8. Conduct a minimum of one inspection of the erosion and sediment controls every two weeks. Maintain documentation on site.
   a. Part III.D.4 of general permit UTR300000 identifies the minimum inspection requirements.
   b. Part II.D.4.C identifies the minimum inspection report requirements.
   c. Failure to complete and/or document storm water inspections is a violation of part III.D.4 of Utah General Permit UTR 300000.

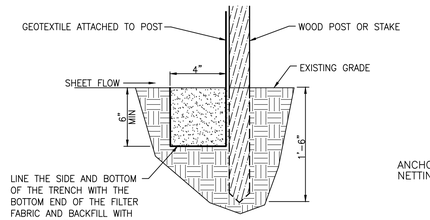


Cross Section 50' x 20' Construction Entrance



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.

TABLE 1:
Recommended Maximum Slope Lengths for Silt Fence
(Richardson & Middlebrooks, 1991)

Slope Steepness (%)	Max. Slope Length m (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 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 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.

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 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.

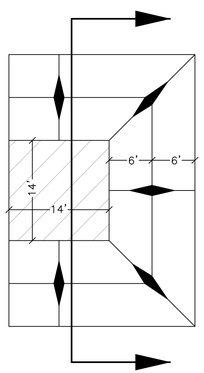
INSPECTION
*Inspect the silt fence daily during periods of rainfall, immediately after significant rainfall event and weekly during periods of no rainfall. Make any repairs immediately.
*When sediment deposits behind the silt fence are one–third of the fence height, remove and properly dispose of the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

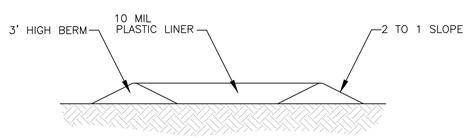
REMOVAL
*Silt fence should not be removed until construction ceases and the upslope area has been properly stablized and/or revegetated.

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

Silt Fence Detail

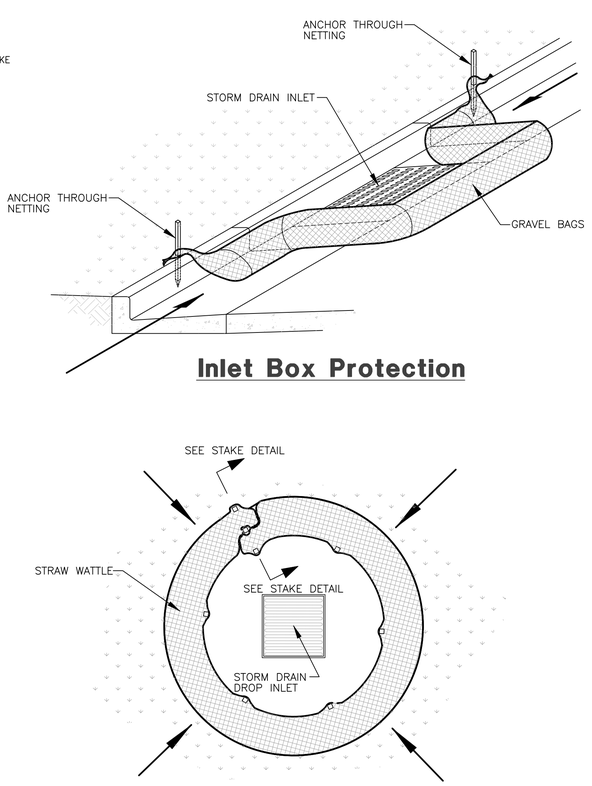
SCALE: NONE





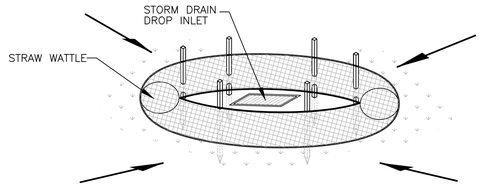
Concrete Washout Area w/ 10 mil Plastic Liner

SCALE: NONE

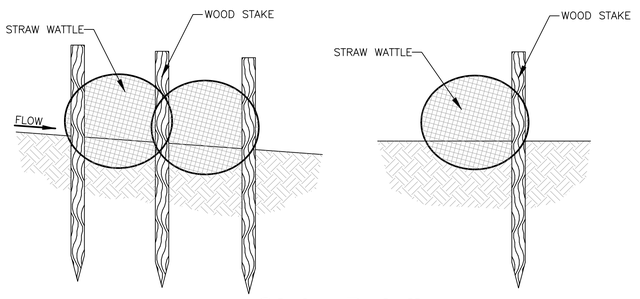


Inlet Box Protection

Plan View



Drop Inlet Protection



Stake Detail

Reeve & Associates, Inc.
5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405
TEL: (801) 621–3100 FAX: (801) 621–2666 www.reeve–assoc.com
LAND PLANNERS * CIVIL ENGINEERS * LAND SURVEYORS
TRAFFIC ENGINEERS * STRUCTURAL ENGINEERS * LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
10–17–17 CK	Final Internal Review
12–12–17 CK	Irrigation Comments
04–03–18 CK	County Review

Cameron Cove Cluster Subdivision

WEBER COUNTY, UTAH

Storm Water Pollution Prevention Plan Details

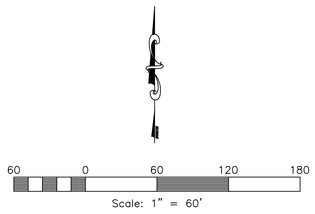
REGISTERED PROFESSIONAL ENGINEER
375328
J. NATE REEVE
4/3/18
STATE OF UTAH

Project Info.
Engineer: J. NATE REEVE, P.E.
Drafter: C. KINGSLEY
Begin Date: JUNE 2017
Name: CAMERON COVE CLUSTER SUBDIVISION
Number: 3442–A48

Sheet 14 of 16 Sheets

Cameron Cove Cluster Subdivision

Landscape Plan



NOTE:
BOLLARDS OR OTHER VEHICLE RESTRICTION MEASURES TO BE COORDINATED WITH WEBER COUNTY

2200 South Street
2275 South Street
3900 West Street
4065 West Street
4000 West Street
Street A
Street B
ENTRY AREA WITH MONUMENT SIGN AND PLANTINGS. SEE DETAIL ON LANDSCAPE DETAIL SHEET.
EX. IRRIGATION EASEMENT
DETENTION BASIN
SEE DETAIL (SHEET L2) 10' WIDE ASPHALT NON-MOTORIZED PUBLIC WALKING PATH W/ 14' EASEMENT
PRIVATE PARK
OPEN SPACE
BOLLARD OR OTHER VEHICLE RESTRICTION (SEE NOTE)
6' Wide Concrete Path
TOT LOT
EX. DETENTION BASIN
OPEN SPACE FUTURE COMMUNITY GARDEN
PARCEL C
PARCEL D
SEE CIVIL PLANS FOR SECONDARY WATER, IRRIGATION CONNECTIONS.
LOT 2 BLUE ACRES SUBDIVISION
LOT 201 BLUE ACRES PH 2 SUBDIVISION
LOT 202 BLUE ACRES PH 2 SUBDIVISION
LOT 5 BLUE ACRES PH 3 SUBDIVISION
LOT 101 FAVERO'S LEGACY CLUSTER SUBD. PHS 1
OPEN SPACE A
LOT 7
LOT 8
LOT 9
CAMERON CROSSING SUBD.
GARY G FARR FAMILY TRUST 15-078-0144
LOT 14
LOT 13
LOT 11
LOT 12
FOUR M'S PARTNERSHIP 15-078-0126
GIOVANNI FAVERO FAMILY TRUST 15-078-0145
GARY F FARR FAMILY TRUST 15-078-0015
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27

Reeve & Associates, Inc.
5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405
TEL: (801) 621-3100 FAX: (801) 621-2666 www.reeve-assoc.com
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
3/2/18 DR	Remove Street Trees
3/21/18 DR	County Review
4/3/18 ER	County Review

Cameron Cove Cluster Subdivision
WEBER COUNTY, UTAH
Landscape Plan

REGISTERED PROFESSIONAL ENGINEER
375326
J. NATE REEVE
4/3/18
STATE OF UTAH

Project Info.
Engineer: J. NATE REEVE, P.E.
Drafter: C. KINGSLEY
Begin Date: JUNE 2017
Name: CAMERON COVE CLUSTER SUBDIVISION
Number: 3442-A48

Sheet L1 | 2 Sheets

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

Cameron Cove Cluster Subdivision
Landscape Plan

Plant Table

TREES

Quantity	Symbol	Scientific Name	Common Name	Planting Size
13		Acer freemanii 'Jeffersred'	Autumn Blaze Maple	2" cal.
4		Acer platanoides 'Crimson King'	Crimson King Norway Maple	2" cal.
12		Gleditsia tria. iner. 'Imperial'	Imperial Honeylocust	2" cal.
6		Picea pungens	Colorado Blue Spruce	6' B&B
6		Pinus nigra	Austrian Pine	6' B&B
4		Pyrus calleryana 'Aristocrat'	Aristocrat Flowering Pear	2" cal.
5		Zelkova serrata 'Schmidtlow'	Wireless Zelkova	2" cal.

SHRUBS

Quantity	Symbol	Scientific Name	Common Name	Planting Size
6		Spiraea japonica 'Magic Carpet'	Magic Carpet Spirea	5 gal.

PERENNIALS

Quantity	Symbol	Scientific Name	Common Name	Planting Size
5		Calamagrostis 'Karl Foerster'	Karl Foerster Grass	5 gal.
7		Hemerocallis 'Stella de Oro'	Stella de Oro Daylily	1 gal.
2		Iberis sempervirens	Candytuft	1 gal.
5		Salvia 'May Night'	May Night Salvia	1 gal.

Decorative Boulders

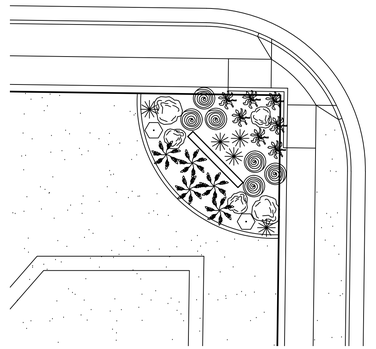
Benches at Tot Lot. Tot lot shall have a play structure, to be specified by owner.

Turf Grass – To be sodded.

NOTE: Vary heights of evergreen trees for a natural look.

NOTE: All beds shall have a 3" layer of Shredded Bark Mulch.

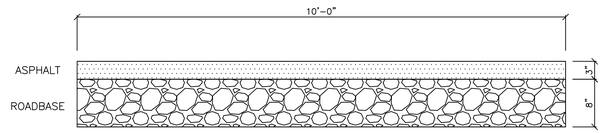
NOTE: A water–conserving, automatic, underground irrigation system shall be designed by owner's licensed landscape contractor. Shrub/flower beds shall be drip irrigated. Turf grass shall be irrigated by spray heads. Monitor the system to watch for over–spray and runoff. See civil plans for secondary water irrigation connections.



Entry Planting Detail

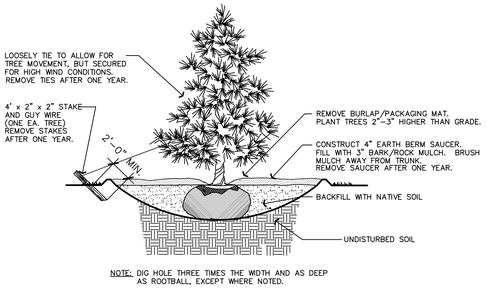
10 0 10 20 30

Scale: 1" = 10'



10' Wide Asphalt Trail Detail

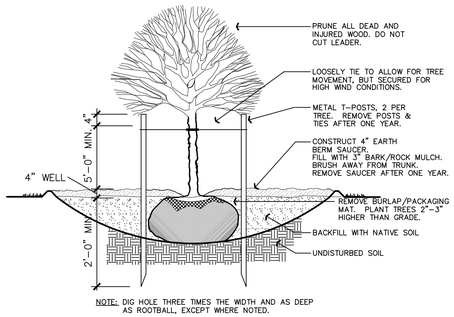
SCALE: NONE



NOTE: DIG HOLE THREE TIMES THE WIDTH AND AS DEEP AS ROOTBALL, EXCEPT WHERE NOTED.

CONIFEROUS TREE PLANTING

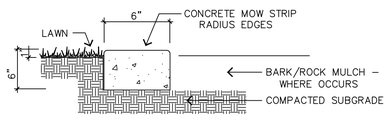
SCALE: NOT TO SCALE



NOTE: DIG HOLE THREE TIMES THE WIDTH AND AS DEEP AS ROOTBALL, EXCEPT WHERE NOTED.

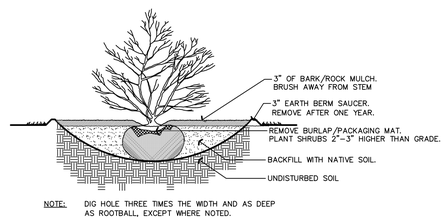
DECIDUOUS TREE PLANTING

SCALE: NOT TO SCALE



CONCRETE MOW STRIP

SCALE: NOT TO SCALE



NOTE: DIG HOLE THREE TIMES THE WIDTH AND AS DEEP AS ROOTBALL, EXCEPT WHERE NOTED.

SHRUB PLANTING

SCALE: NOT TO SCALE

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) 621-3100 FAX: (801) 621-2666 www.reeve-assoc.com
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS

DATE	DESCRIPTION
3/2/18 DR	Remove Street Trees
3/21/18 DR	County Review
4/3/18 ER	County Review

Cameron Cove Cluster Subdivision
WEBER COUNTY, UTAH

Landscape Details

REGISTERED PROFESSIONAL ENGINEER
378328
J. NATE REEVE
4/3/18
STATE OF UTAH

Project Info.
Engineer: J. NATE REEVE, P.E.
Drafter: C. KINGSLEY
Begin Date: JUNE 2017
Name: CAMERON COVE CLUSTER SUBDIVISION
Number: 3442–A48

Sheet L2 | 2 Sheets