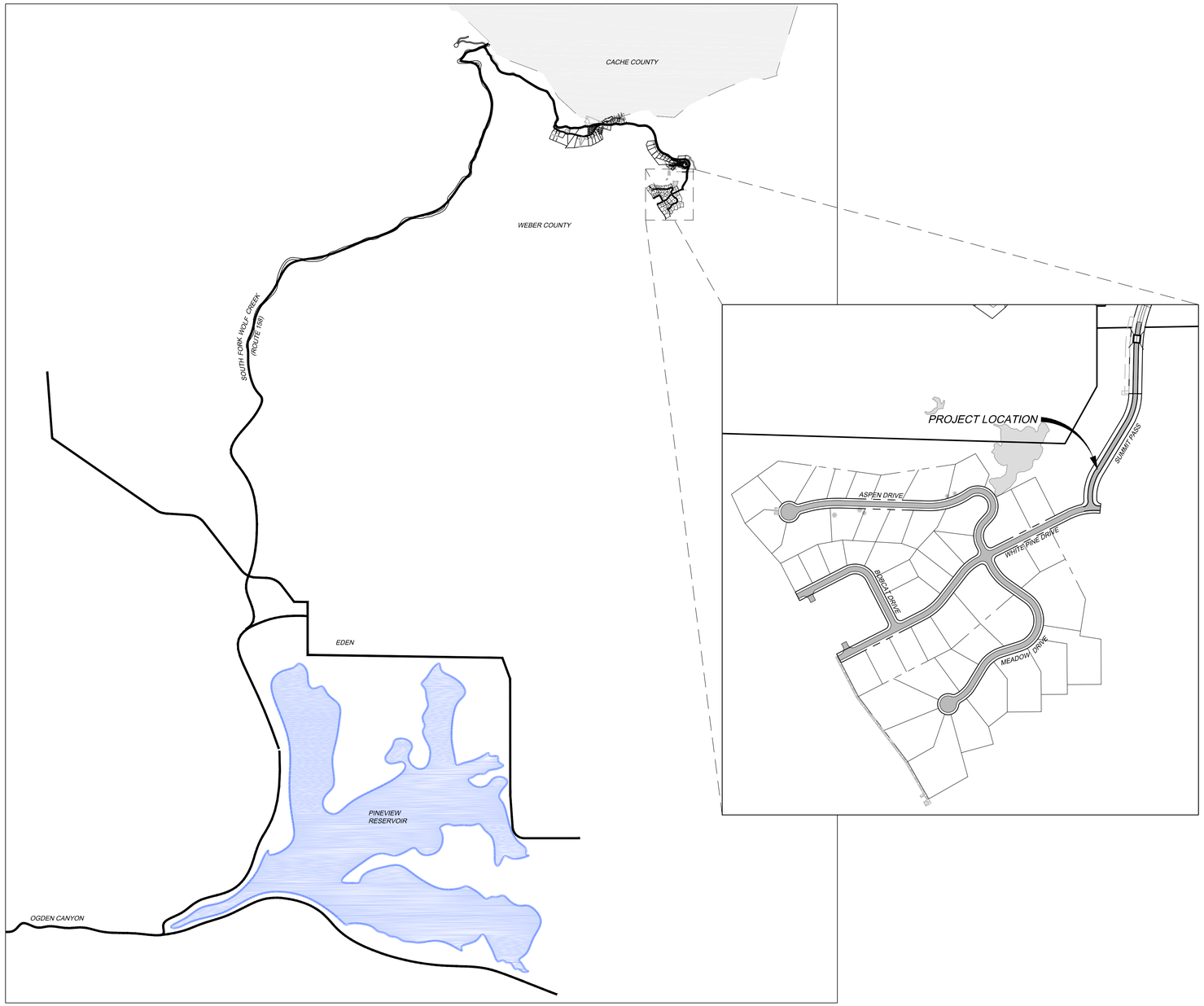
BOBCAT RIDGE
AT SUMMIT POWDER MOUNTAIN
SITE CONSTRUCTION DRAWINGS

Located in Sec 08 T7N R2E
Weber County, Utah

SHEET INDEX:

	SHEET NO.	SHEET DESCRIPTION
1	001	CIVIL TITLE SHEET
2	002	GENERAL NOTES & LEGEND
3	003	TYPICAL ROAD SECTIONS
4	004	TYPICAL ROAD SECTIONS
5	005	TYPICAL ROAD SECTIONS
6	100	OVERALL DEMOLITION PLAN
7	200	OVERALL SITE & GRADING PLAN
8	201	SITE CUT–FILL
9	202	SITE CUT–FILL
10	203	SITE CUT–FILL
11	204	ROADWAY SECTIONS
12	205	ROADWAY SECTIONS
13	206	ROADWAY SECTIONS
14	207	ROADWAY SECTIONS
15	400	OVERALL UTILITY PLAN
16	500	PLAN AND PROFILE KEY MAP
17	501	PLAN AND PROFILE – SUMMIT PASS STA: 9+50 – 14+00
18	502	PLAN AND PROFILE – SUMMIT PASS STA: 14+00 – 17+00
19	503	PLAN AND PROFILE – SUMMIT PASS STA: 17+00 – 19+78.32
20	504	PLAN AND PROFILE – WHITE PINE DRIVE STA: 9+50 – 14+00
21	505	PLAN AND PROFILE – WHITE PINE DRIVE STA: 14+00 – 18+50
22	506	PLAN AND PROFILE – WHITE PINE DRIVE STA: 18+50 – 23+00
23	507	PLAN AND PROFILE – WHITE PINE DRIVE STA: 23+00 – 26+00
24	508	PLAN AND PROFILE – ASPEN DRIVE STA: 10+00 – 14+00
25	509	PLAN AND PROFILE – ASPEN DRIVE STA: 14+00 – 19+00
26	510	PLAN AND PROFILE – ASPEN DRIVE STA: 19+00 – 23+00
27	511	PLAN AND PROFILE – ASPEN DRIVE STA: 23+00 – 25+00
28	512	PLAN AND PROFILE – MEADOW DRIVE STA: 10+00 – 13+50
29	513	PLAN AND PROFILE – MEADOW DRIVE STA: 13+50 – 16+50
30	514	PLAN AND PROFILE – MEADOW DRIVE STA: 16+50 – 19+50
31	515	PLAN AND PROFILE – MEADOW DRIVE STA: 19+50 – 22+00
32	516	PLAN AND PROFILE – BOBCAT DRIVE STA: 10+00 – 14+00
33	517	PLAN AND PROFILE – BOBCAT DRIVE STA: 14+00 – 17+50
34	518	PLAN AND PROFILE – BACK LOT SEWER STA: 0+00 – 8+81.09
35	519	PLAN AND PROFILE – BACK LOT SEWER STA: 0+00 – 6+39.37
36	520	PLAN AND PROFILE – CROSSING STORM DRAIN PROFILES
37	521	PLAN AND PROFILE – CROSSING STORM DRAIN PROFILES
38	522	PLAN AND PROFILE – INTERSECTION GRADING DETAILS
39	523	SKIER TRAIL GRADING
40	600	EROSION CONTROL PLAN
41	700	DETAILS
42	701	DETAILS
43	702	DETAILS
44	703	DETAILS
45	704	DETAILS
46	705	DETAILS
47	706	SEWER GRINDER STATION DETAILS – BR–2 BACK LOT SEWER GRINDER STATION
48	707	SEWER GRINDER STATION DETAILS – BR–1 ASPEN DRIVE SEWER GRINDER STATION
49	708	PRV DETAILS
50	800	DRY UTILITY PLAN KEY MAP
51	801	DRY UTILITY PLAN – SUMMIT PASS STA: 9+50 – 17+00
52	802	DRY UTILITY PLAN – SUMMIT PASS STA: 17+00 – 19+78.32
53	803	DRY UTILITY PLAN – WHITE PINE DRIVE STA: 9+50 – 18+50
54	804	DRY UTILITY PLAN – WHITE PINE DRIVE STA: 18+50 – 26+00
55	805	DRY UTILITY PLAN – ASPEN DRIVE STA: 10+00 – 19+00
56	806	DRY UTILITY PLAN – ASPEN DRIVE STA: 19+00 – 25+00
57	807	DRY UTILITY PLAN – MEADOW DRIVE STA: 10+00 – 16+50
58	808	DRY UTILITY PLAN – MEADOW DRIVE STA: 16+50 – 22+00
59	809	DRY UTILITY PLAN – BOBCAT DRIVE STA: 10+00 – 17+50



TALISMAN CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
CIVIL TITLE SHEET

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

SCALE
HORIZONTAL: 1" =3000'
0 750' 1500' 3000' 4500'

SHEET NUMBER
001
1 OF 59

CALL 811 BEFORE YOU DIG
SAFE DIGGING PARTNER

DATE: 8/13/2018 2:15 PM

PATH: N:\SUB0793\Cadd\18-200.22-Aether Estate Lots - Bobcat Ridge\P\001 CIVIL TITLE SHEET.dwg

GENERAL NOTES

1. ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: GOVERNING UTILITY MUNICIPALITY, GOVERNING CITY OR COUNTY (IF UN-INCORPORATED), INDIVIDUAL PRODUCT MANUFACTURERS, THE DESIGN ENGINEER, AND AMERICAN PUBLIC WORKS ASSOCIATION (APWA). 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 UDOT 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 AND NOTIFYING ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
10. ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE APPROPRIATE, CITY, COUNTY OR STATE AGENCY CONTROLLING THE ROAD, INCLUDING OBTAINING REQUIRED INSPECTIONS.
11. ALL DIMENSIONS, GRADES & UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR 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 OF UTAH 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 LOCATION 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 FIRST QUALITY ARE TO BE USED.

GENERAL NOTES CONT.

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' OR MORE. FOR EXCAVATIONS 4 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH INDUSTRIAL COMMISSION OF UTAH SAFETY ORDERS SECTION 68 – EXCAVATIONS, AND SECTION 69 – TRENCHES, ALONG WITH ANY LOCAL CODES OR ORDINANCES.
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. THE CONTRACTOR SHALL NOTIFY BLUE STAKES AT 1-800-662-4111 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 NEEDED UNTIL AFTER THE FINAL BOND RELEASE INSPECTION.
10. CONTRACTOR SHALL CLEAN ASPHALT, TAR OR OTHER ADHESIVES OFF OF ALL MANHOLE LIDS AND INLET GRATES TO ALLOW ACCESS.
11. EACH TRENCH SHALL BE EXCAVATED SO THAT THE PIPE CAN BE LAID TO THE ALIGNMENT AND GRADE AS REQUIRED. THE TRENCH WALL SHALL BE SO BRACED THAT THE WORKMEN MAY WORK SAFELY AND EFFICIENTLY. ALL TRENCHES SHALL BE DRAINED SO THE PIPE LAYING MAY TAKE PLACE IN DEWATERED CONDITIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COST OF DEWATERING AND NO COST CHANGE WILL BE PROVIDED.
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 72" OF COVER TO TOP OF PIPE 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.
19. CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE ANGLE POINTS AND TEES.
20. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK AND STREET PAVING.
21. CONTRACTOR SHALL INSTALL MAGNETIC LOCATING TAPE CONTINUOUSLY OVER ALL NONMETALLIC PIPE.
22. THE CONTRACTOR SHALL NOTIFY TALISMAN CIVIL CONSULTANTS, LLC. IN WRITING AT LEAST 48 HOURS PRIOR TO BACKFILLING OF ANY PIPE WHICH STUBS TO A FUTURE PHASE OF CONSTRUCTION FOR INVERT VERIFICATION. TOLERANCE SHALL BE IN ACCORDANCE WITH THE REGULATORY AGENCY STANDARD SPECIFICATIONS.
23. UNDER NO CIRCUMSTANCE SHALL THE PIPE OR ACCESSORIES BE DROPPED INTO THE TRENCH

ABBREVIATIONS:

*NOTE: NOT ALL ABBREVIATIONS MAY BE USED IN THIS PLANSET.

BW – BOTTOM OF WALL
CL – CENTER LINE
EP – EDGE OF PAVEMENT
EX – EXISTING
FG – FINISHED GRADE
FL – FLOWLINE
TBC – TOP BACK OF CURB
TW – TOP OF WALL

LEGEND:

SYMBOL / LINETYPE	DESCRIPTION	DETAIL
18"W	PROPOSED 18"ø DR-13.5 HDPE WATER PIPE	APWA PLAN NO. 381, 382
12"W	PROPOSED 12"ø DR-13.5 HDPE WATER PIPE	APWA PLAN NO. 381, 382
8"W	PROPOSED 8"ø DR-13.5 HDPE WATER PIPE	APWA PLAN NO. 381, 382
2"W	PROPOSED 2"ø SERVICE LATERAL	APWA PLAN NO. 552
	PROPOSED WATER LINE REDUCER	APWA PLAN NO. 561, 562
	PROPOSED WATER VALVE	APWA PLAN NO. 561, 562
	PROPOSED WASHOUT VALVE ASSEMBLY	APWA PLAN NO. 571
	PROPOSED AIR RELEASE VALVE ASSEMBLY	APWA PLAN NO. 575
	PROPOSED FIRE HYDRANT ASSEMBLY	PMWSID PLAN NO. 511S
8"SS PVC	PROPOSED 8"ø SDR35 PVC SEWER PIPE	APWA PLAN NO. 381, 382
8"SS HDPE	PROPOSED 8"ø DR-17 HDPE SEWER PIPE	APWA PLAN NO. 381, 382
(3)SS-P	PROPOSED 3"ø DR-17 HDPE PRESSURE SEWER PIPE	APWA PLAN NO. 381, 382
(4)SS-P	PROPOSED 4"ø DR-13 HDPE PRESSURE SEWER PIPE	APWA PLAN NO. 381, 382
	PROPOSED 4"ø PVC SANITARY SEWER LATERAL	DETAIL B/SHEET 702
	PROPOSED 4'ø SANITARY SEWER MANHOLE	APWA PLAN NO. 411
	PROPOSED 5'ø SANITARY SEWER MANHOLE	APWA PLAN NO. 411
	PROPOSED GRINDER PUMP STATION	N/A
15"SD	PROPOSED 15"ø CLASS III R.C.P. UNLESS NOTED OTHERWISE	APWA PLAN NO. 381, 382
18"SD	PROPOSED 18"ø CLASS III R.C.P. UNLESS NOTED OTHERWISE	APWA PLAN NO. 381, 382
21"SD	PROPOSED 21"ø CLASS III R.C.P. UNLESS NOTED OTHERWISE	APWA PLAN NO. 381, 382
24"SD	PROPOSED 24"ø CLASS III R.C.P. UNLESS NOTED OTHERWISE	APWA PLAN NO. 381, 382
	PROPOSED 4'ø STORM DRAIN MANHOLE	APWA PLAN NO. 341
	PROPOSED 5'ø STORM DRAIN MANHOLE	APWA PLAN NO. 341
	PROPOSED FLARED END SECTION	APWA PLAN NO. 323
	PROPOSED 2'x4' STORM DRAIN DROP INLET	APWA PLAN NO. 315
	PROPOSED 3'x3' STORM DRAIN CATCH BASIN	APWA PLAN NO. 332
	PROPOSED DITCH FLOWLINE	N/A
(2)4"CDM	PROPOSED (2) 4"ø TELECOMMUNICATION CONDUITS	N/A
	PROPOSED COMMUNICATIONS VAULT	CARSON H2436-36
	PROPOSED COMMUNICATIONS JUNCTION BOX	CARSON L1324-15
(2) 6" P	PROPOSED (2) 6"ø ELECTRICAL CONDUITS	N/A
P P	PROPOSED (2) 6"ø ELECTRICAL CONDUIT	N/A
	PROPOSED SECONDARY ELECTRICAL BOX	N/A
	PROPOSED ELECTRICAL TRANSFORMER	N/A
	LOT LINE	N/A
	PROPOSED LOT LINE	N/A
8"W	EXISTING 8"ø WATER LINE	N/A
18"W	EXISTING 18"ø WATER LINE	N/A
	EXISTING WATER VALVE	N/A
	EXISTING FIRE HYDRANT	N/A
15"SD	EXISTING 15"ø STORM DRAIN LINE	N/A
	EXISTING STORM DRAIN MANHOLE	N/A
	EXISTING STORM DRAIN CATCH BASIN	N/A
8"SS	EXISTING 8"ø SANITARY SEWER LINE	N/A
	EXISTING SANITARY SEWER MANHOLE	N/A
G G	EXISTING GAS PIPE/SLEEVE	N/A
P P	EXISTING MISCELLANEOUS POWER CONDUIT	N/A
(1)4"P	EXISTING 4"ø POWER CONDUIT	N/A
(1)2"CDM	EXISTING 2"ø COMMUNICATION CONDUIT	N/A

NOTE: LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN PLAN SET.

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 WEBER COUNTY 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 UTAH DIVISION OF WATER QUALITY.

MAINTENANCE:

ALL BEST MANAGEMENT PRACTICES (BMP'S) SHOWN ON THIS PLAN MUST BE MAINTAINED AT ALL TIMES UNTIL VEGETATION IS RE-ESTABLISHED.

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

WEBER COUNTY

2380 WASHINGTON BLVD. #240
OGDEN, UT 84401
(801) 399-8374

ROCKY MOUNTIAN POWER

1438 WEST 2550 SOUTH
OGDEN, UT 84401
(801) 629-4429

POWDER MOUNTAIN WATER & SEWER DISTRICT

PO BOX 270
EDEN, UT 84310
(801) 745-0912

TALISMAN
CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
GENERAL NOTES & LEGEND

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

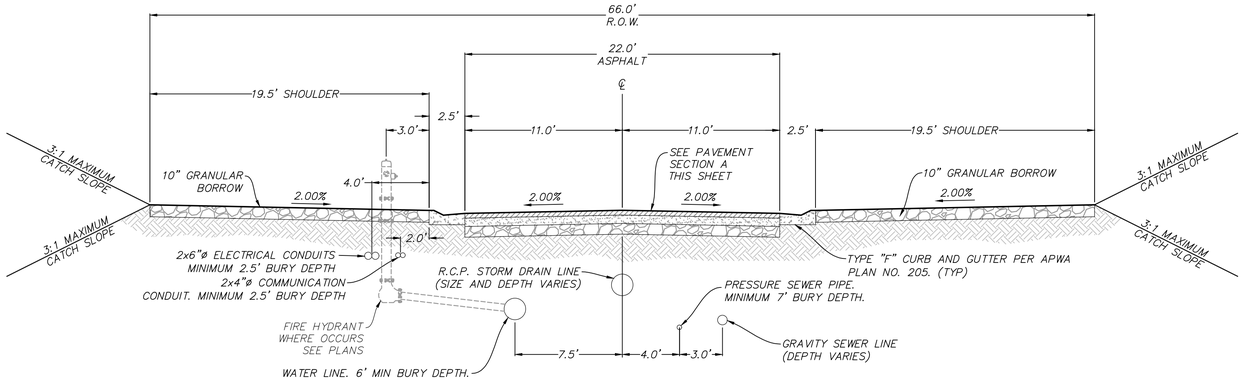
REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

CALL 811 BEFORE YOU DIG
SAFE DIGGING PARTNER

SHEET NUMBER
002
2 OF 59

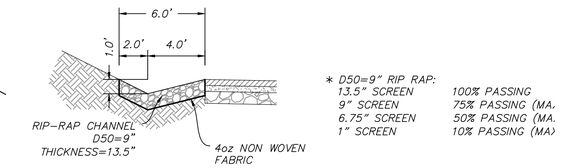
DATE: 8/13/2018 10:49 AM

PATH: n:\18093\Cadd\18-200.22-gather estate lots - bobcat ridge\PV002 GENERAL NOTES & LEGEND.dwg



TYPICAL SECTION: SUMMIT PASS EXTENSION

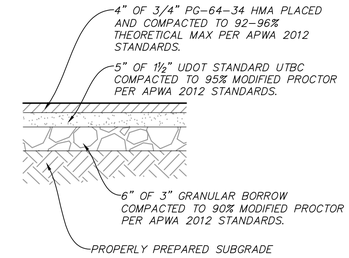
STA: 9+50.00 – 19+29.77



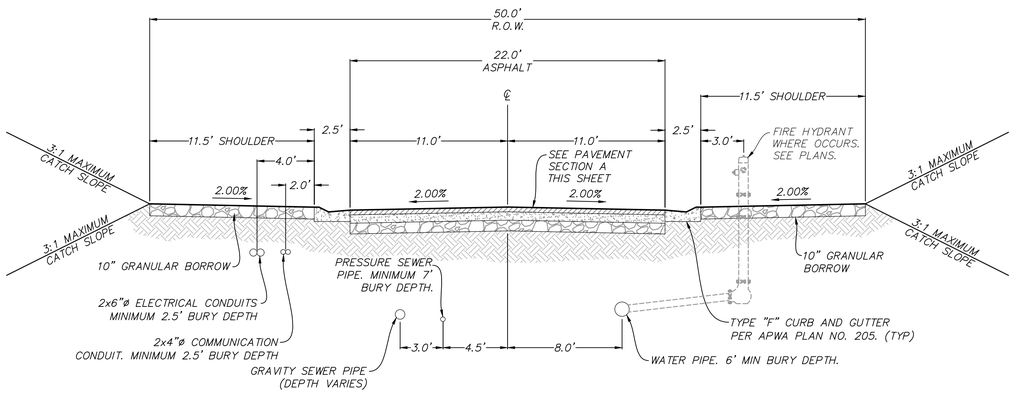
* D50=9" RIP RAP:

13.5" SCREEN	100% PASSING
9" SCREEN	75% PASSING (MA.
6.75" SCREEN	50% PASSING (MA.
1" SCREEN	10% PASSING (MA)

DITCH SECTION A



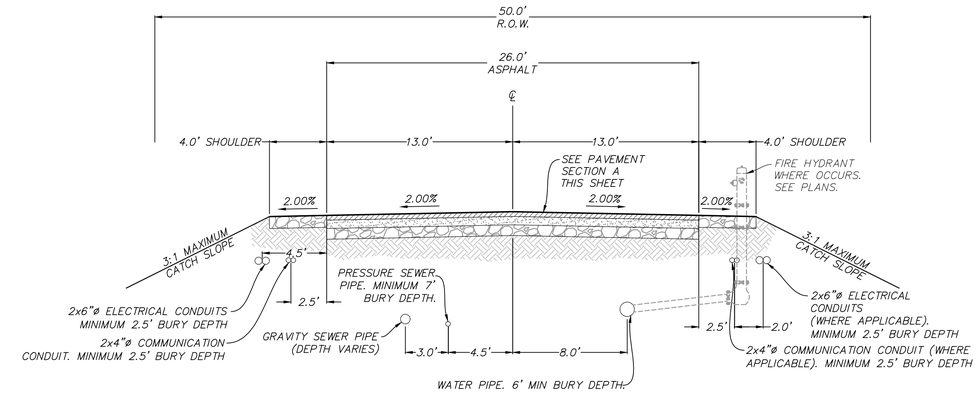
PAVEMENT SECTION A



TYPICAL SECTION: WHITE PINE DRIVE #1

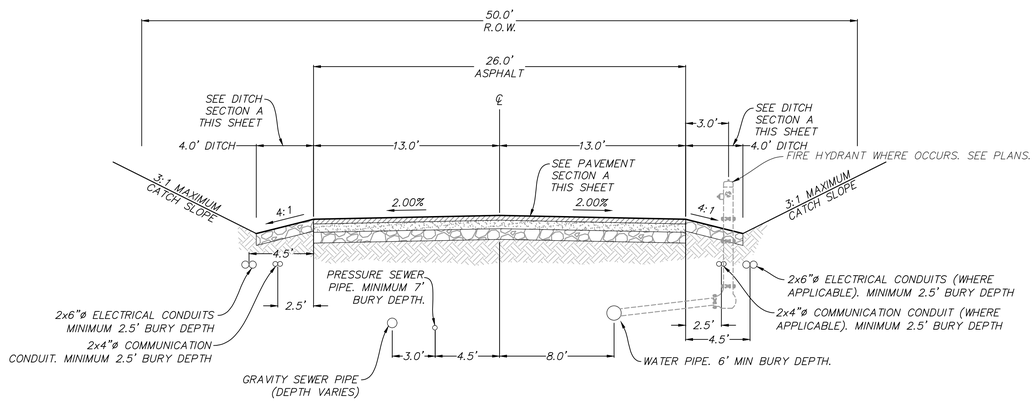
STA: 10+00.00 – 10+68.89

BETWEEN TYPICAL SECTION WHITE PINE DRIVE #1 AND WHITE PINE DRIVE #2 PROVIDE TRANSITION ZONE FROM STA: 10+68.89 TO 11+18.89



TYPICAL SECTION: WHITE PINE DRIVE #2

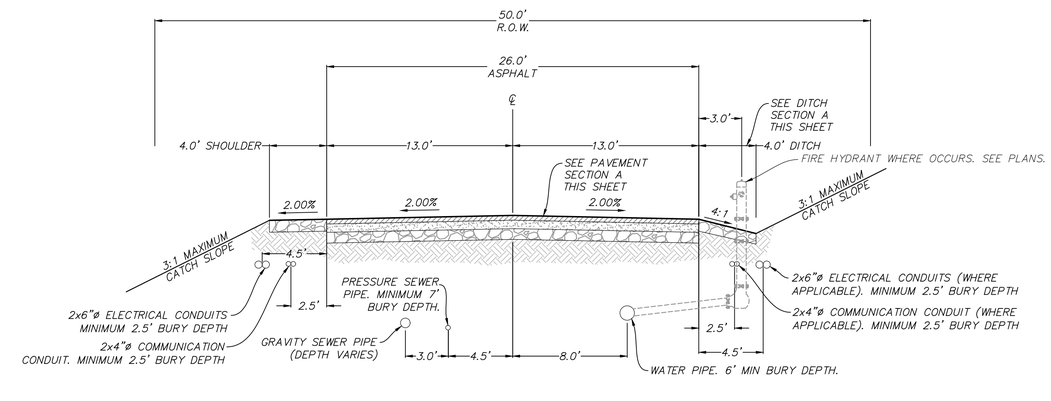
STA: 11+18.89 – 15+94.92



TYPICAL SECTION: WHITE PINE DRIVE #3

STA: 16+90.22 – 21+38.31

BETWEEN TYPICAL SECTION WHITE PINE DRIVE #3 AND WHITE PINE DRIVE #4 PROVIDE TRANSITION ZONE FROM STA: 21+38.31 TO 21+88.89



TYPICAL SECTION: WHITE PINE DRIVE #4

STA: 21+88.31 – 22+03.95

STA: 22+97.82 – 25+83.29

TALISMAN CIVIL CONSULTANTS
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801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.

TYPICAL ROAD SECTIONS

TCC JOB NUMBER: 18.200.22

DATE SUBMITTED: 08.13.2018

REGISTERED PROFESSIONAL ENGINEER No. 7899506 RYAN W. CATHEY 8/13/18 STATE OF UTAH

SHEET NUMBER

003

3 OF 59

CALL 811 BEFORE YOU DIG! 811 SAFE DIGGING PARTNER

DATE: 8/13/2018 10:49 AM
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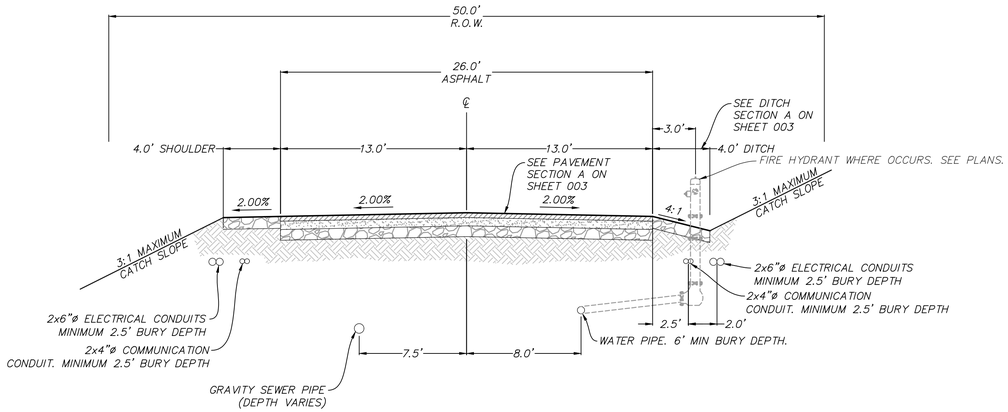
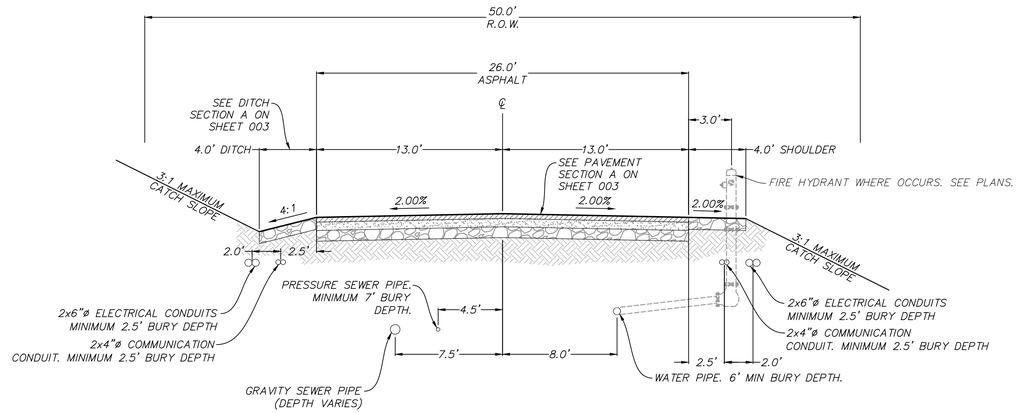


TYPICAL SECTION: ASPEN DRIVE #1

STA: 10+40.00 – 12+75.00

BETWEEN TYPICAL SECTION ASPEN DRIVE #1 AND ASPEN DRIVE #2 PROVIDE TRANSITION ZONE FROM STA: 12+75 TO 13+25



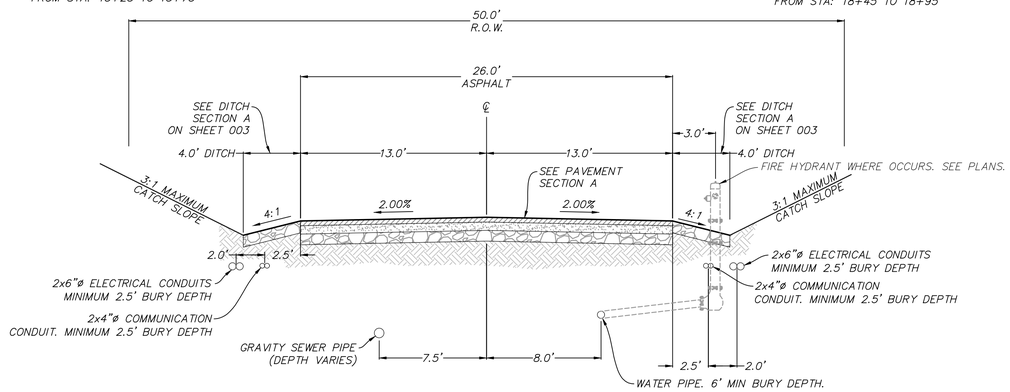
TYPICAL SECTION: ASPEN DRIVE #2

STA: 13+25.00 – 15+25.00

STA: 18+45.00 – 23+31.60

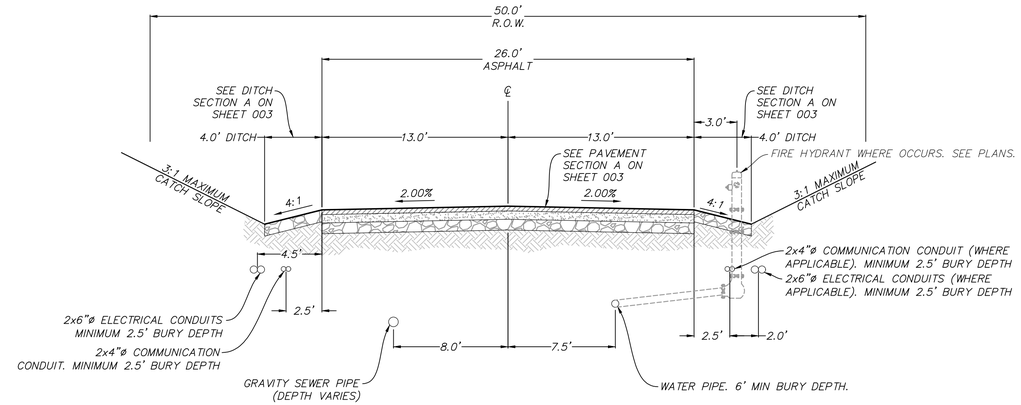
BETWEEN TYPICAL SECTION ASPEN DRIVE #2 AND ASPEN DRIVE #3 PROVIDE TRANSITION ZONE FROM STA: 15+25 TO 15+75

BETWEEN TYPICAL SECTION ASPEN DRIVE #2 AND ASPEN DRIVE #3 PROVIDE TRANSITION ZONE FROM STA: 18+45 TO 18+95



TYPICAL SECTION: ASPEN DRIVE #3

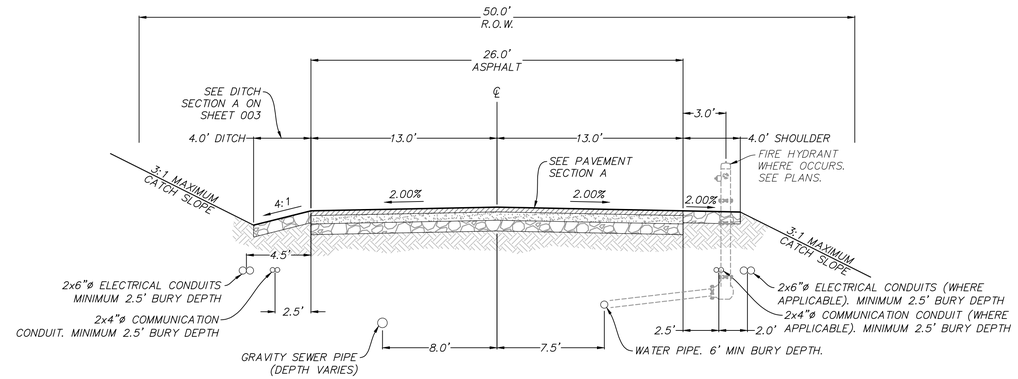
STA: 15+75.00 – 18+95.00



TYPICAL SECTION: BOBCAT DRIVE #1

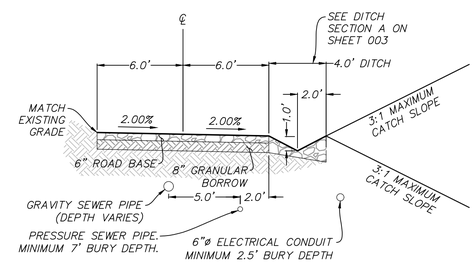
STA: 10+50.18 – 13+25.00

BETWEEN TYPICAL SECTION BOBCAT DRIVE #1 AND BOBCAT DRIVE #2 PROVIDE TRANSITION ZONE FROM STA: 13+25 TO 13+75



TYPICAL SECTION: BOBCAT DRIVE

STA: 13+75.00 – 17+20.31



TYPICAL SECTION: ACCESS ROAD

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801.743.1300

NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.

TYPICAL ROAD SECTIONS

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER No. 7899506 BYAN W. CATHEY 8/13/18 STATE OF UTAH

CALL 811 BEFORE YOU DIG. SAFE DIGGING PARTNER

SHEET NUMBER

004

DATE: 8/13/2018 10:49 AM
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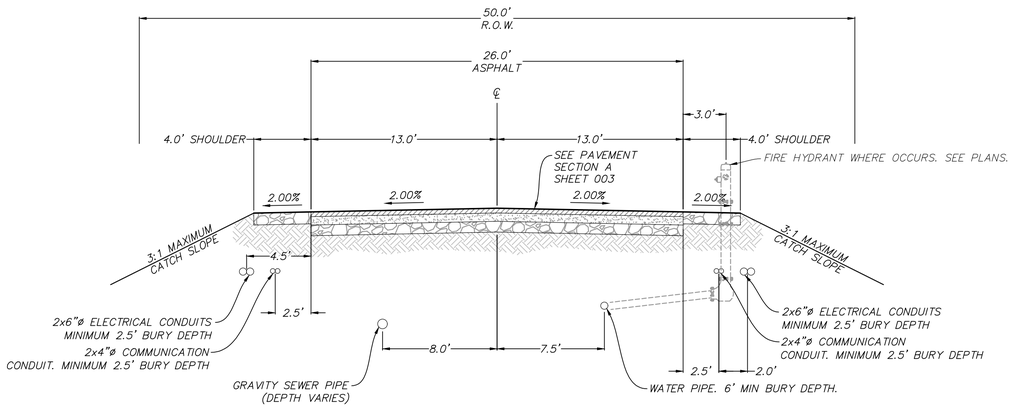
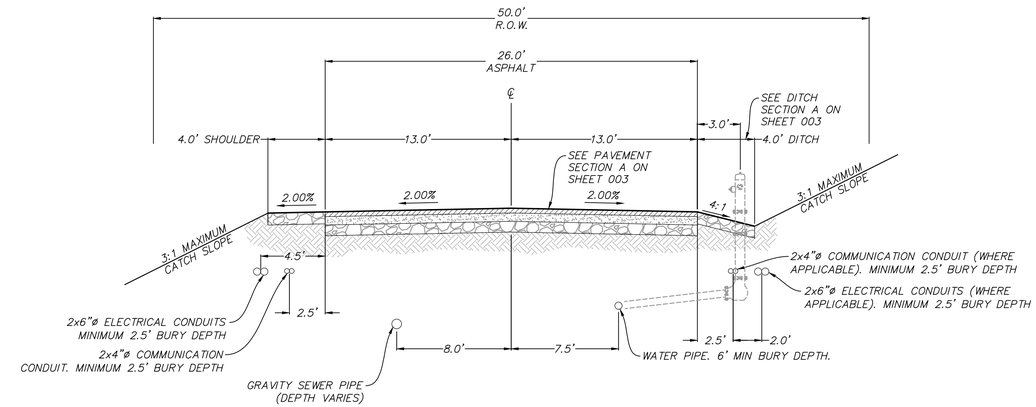


TYPICAL SECTION: MEADOW DRIVE #1

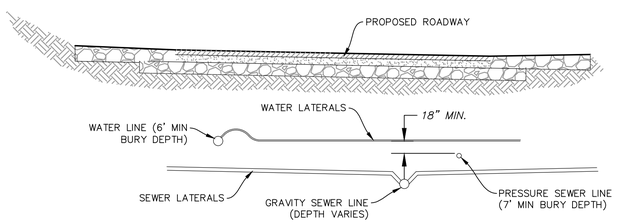
STA: 10+48.00 – 14+35.00

BETWEEN TYPICAL SECTION MEADOW DRIVE #1 AND MEADOW DRIVE #2 PROVIDE TRANSITION ZONE FROM STA: 14+35 TO 14+85



TYPICAL SECTION: MEADOW DRIVE #2

STA: 14+85.00 – 20+52.30



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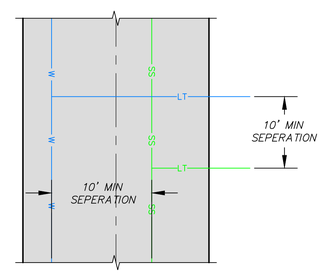

PLAN

WATER AND SEWER SEPARATION DETAIL

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SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.

TYPICAL ROAD SECTIONS

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
BRYAN W. CATHEY
8/13/18
STATE OF UTAH

CALL 811 BEFORE YOU DIG
811 SAFE DIGGING PARTNER

SHEET NUMBER
005
5 OF 59

DATE: 8/13/2018 10:49 AM

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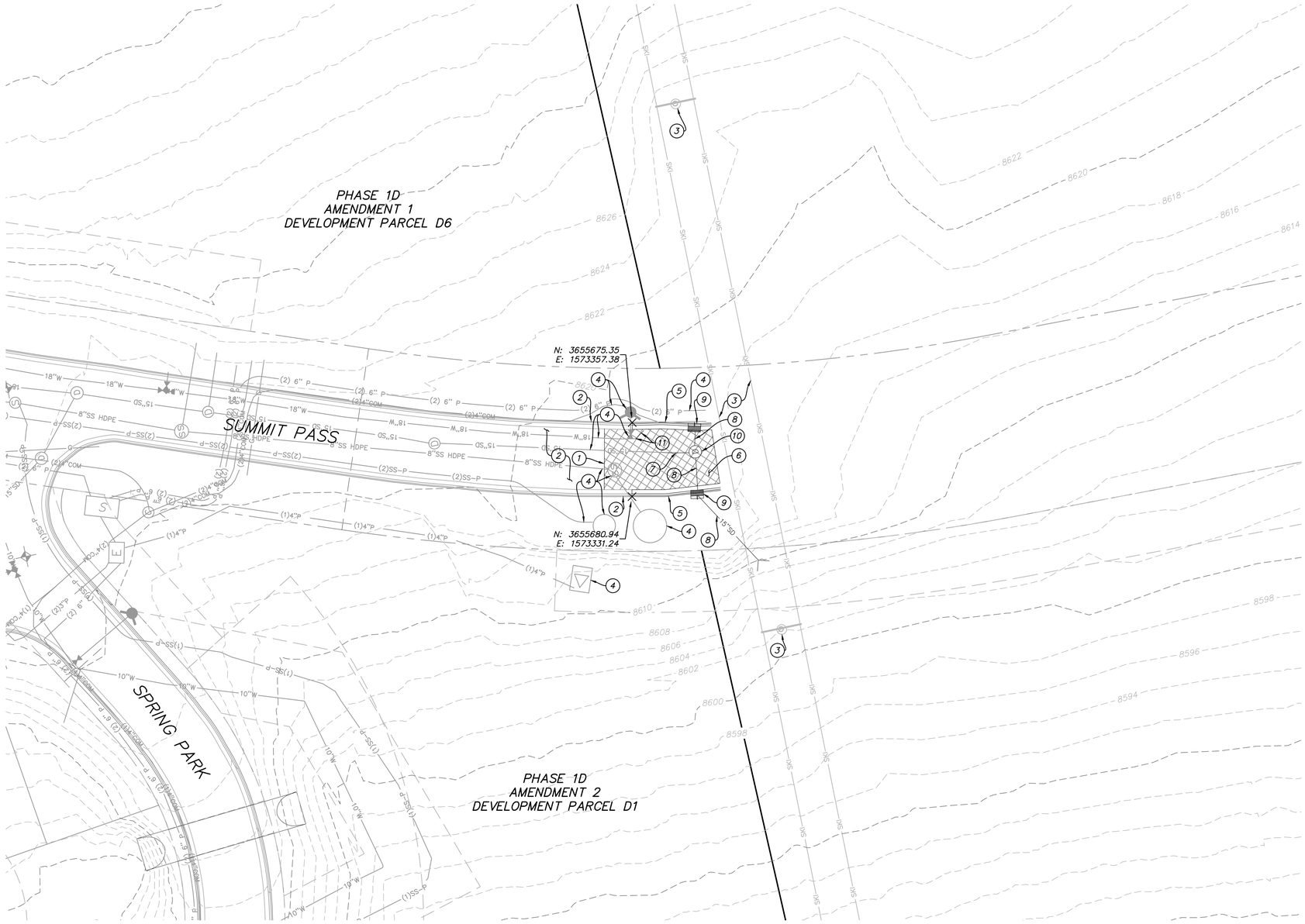

GENERAL NOTES:

EXISTING UTILITY INFORMATION SHOWN IS FOR INFORMATIONAL PURPOSES ONLY. IT IS DERIVED FROM RECORD DRAWINGS AND MAY NOT BE LOCATED CORRECTLY AND IS NOT ALL INCLUSIVE. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES BEFORE BEGINNING DEMOLITION/CONSTRUCTION AND NOTIFY ENGINEER WHEN UNEXPECTED UTILITIES ARE DISCOVERED.

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR LOCATING AND PROTECTING FROM DAMAGE ALL EXISTING UTILITIES AND IMPROVEMENTS WHETHER OR NOT SHOWN ON THESE PLANS. THE FACILITIES AND IMPROVEMENTS ARE BELIEVED TO BE CORRECTLY SHOWN BUT THE CONTRACTOR IS REQUIRED TO SATISFY HIMSELF AS TO THE COMPLETENESS AND ACCURACY OF THE LOCATIONS. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY, OR INDIRECTLY, FROM THEIR OPERATIONS, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS.

SCOPE OF WORK:

1. SAWCUT TO PROVIDE SMOOTH CLEAN EDGE.
2. PRESERVE AND PROTECT EXISTING IMPROVEMENTS. CONTRACTOR RESPONSIBLE FOR REPLACING DAMAGED IMPROVEMENTS.
3. PROTECT IN PLACE EXISTING SKI LIFT TOWERS AND LINES.
4. PRESERVE AND PROTECT EXISTING UTILITY LINES AND STRUCTURES.
5. REMOVE AND PROPERLY DISPOSE OF EXISTING CONCRETE CURB AND GUTTER. SAWCUT AT NEAREST CONTROL JOINT.
6. REMOVE AND PROPERLY DISPOSE OF EXISTING ASPHALT PAVEMENT.
7. REMOVE AND PROPERLY DISPOSE OF EXISTING STORM DRAIN PIPE TO NEAREST PIPE JOINT.
8. REMOVE AND PROPERLY DISPOSE OF EXISTING STORM DRAIN PIPE.
9. REMOVE AND PROPERLY DISPOSE OF EXISTING STORM DRAIN CATCH BASIN.
10. REMOVE AND PROPERLY DISPOSE OF EXISTING STORM DRAIN MANHOLE.
11. REMOVE AND PROPERLY DISPOSE OF EXISTING WATER LINE AND BEND.

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SUITE 200
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NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.
OVERALL DEMOLITION PLAN

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
BYAN W. CATHEY
8/13/18
STATE OF UTAH

SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

SHEET NUMBER
100
6 OF 59

DATE: 8/13/2018 10:51 AM

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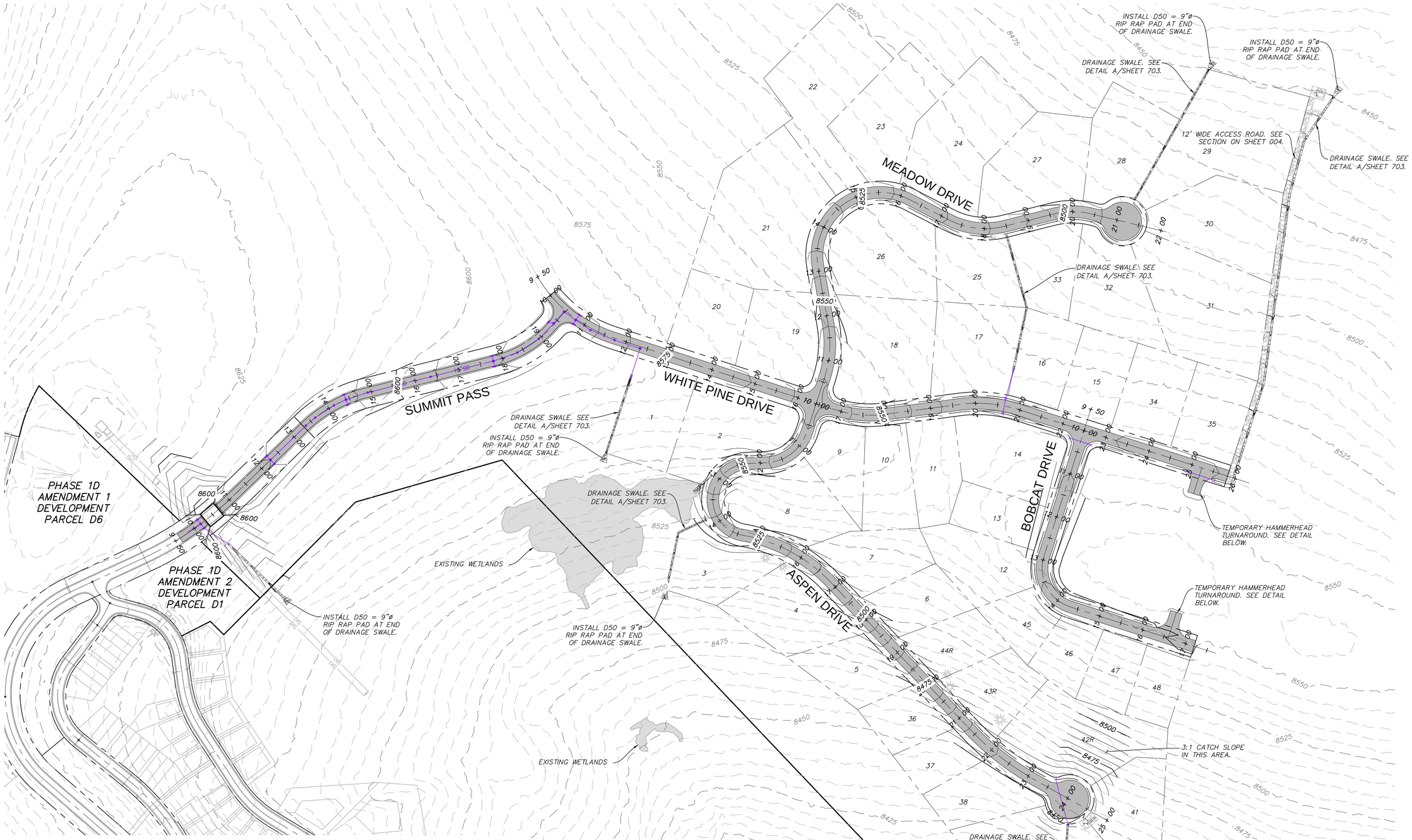
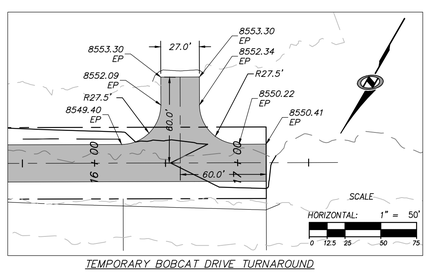
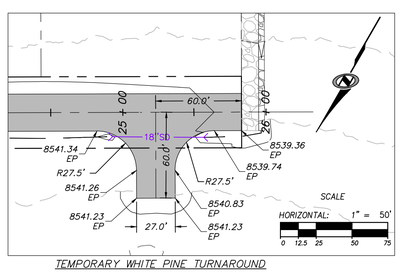
DATE: 8/13/2018 2:59 PM





TEMPORARY BOBCAT DRIVE TURNAROUND



TEMPORARY WHITE PINE TURNAROUND

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CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.
OVERALL SITE & GRADING PLAN

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

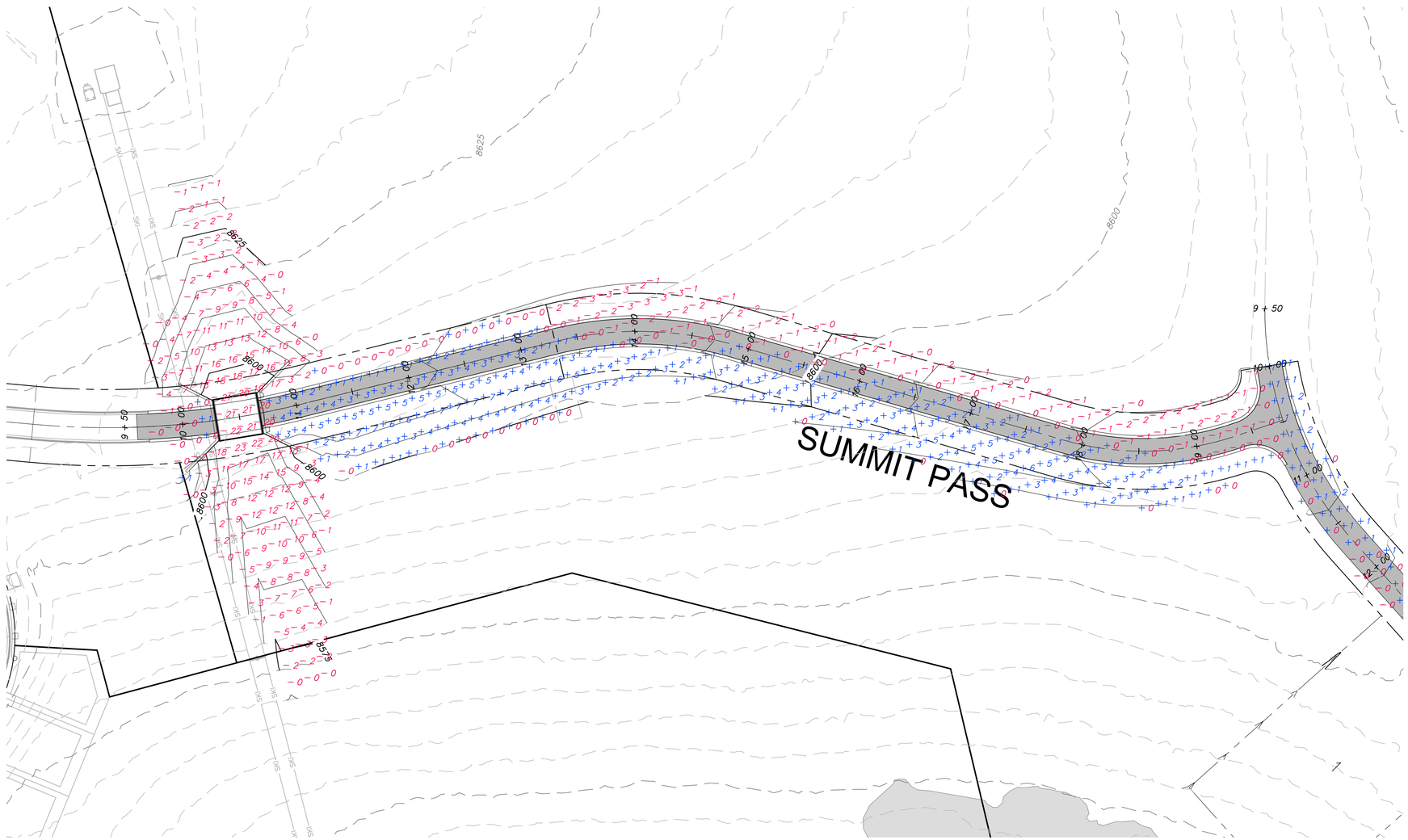
REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

SCALE
HORIZONTAL: 1" = 100'
0 25' 50' 100' 150'

SHEET NUMBER
200
7 OF 59

CALL 811 BEFORE YOU DIG
SAFE DIGGING PARTNER

PATH: n:\SL8793\Cadd\18-200.22-cather estate lots - bobcat ridge\IP\200 OVERALL SITE & GRADING PLAN.dwg



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SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.

SITE CUT-FILL

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

SCALE

HORIZONTAL: 1" = 50'

0 12.5 25 50 150'

SHEET NUMBER

201

8 OF 59

CALL 811 BEFORE YOU DIG
811
SAFE DIGGING PARTNER

DATE: 8/13/2018 10:57 AM

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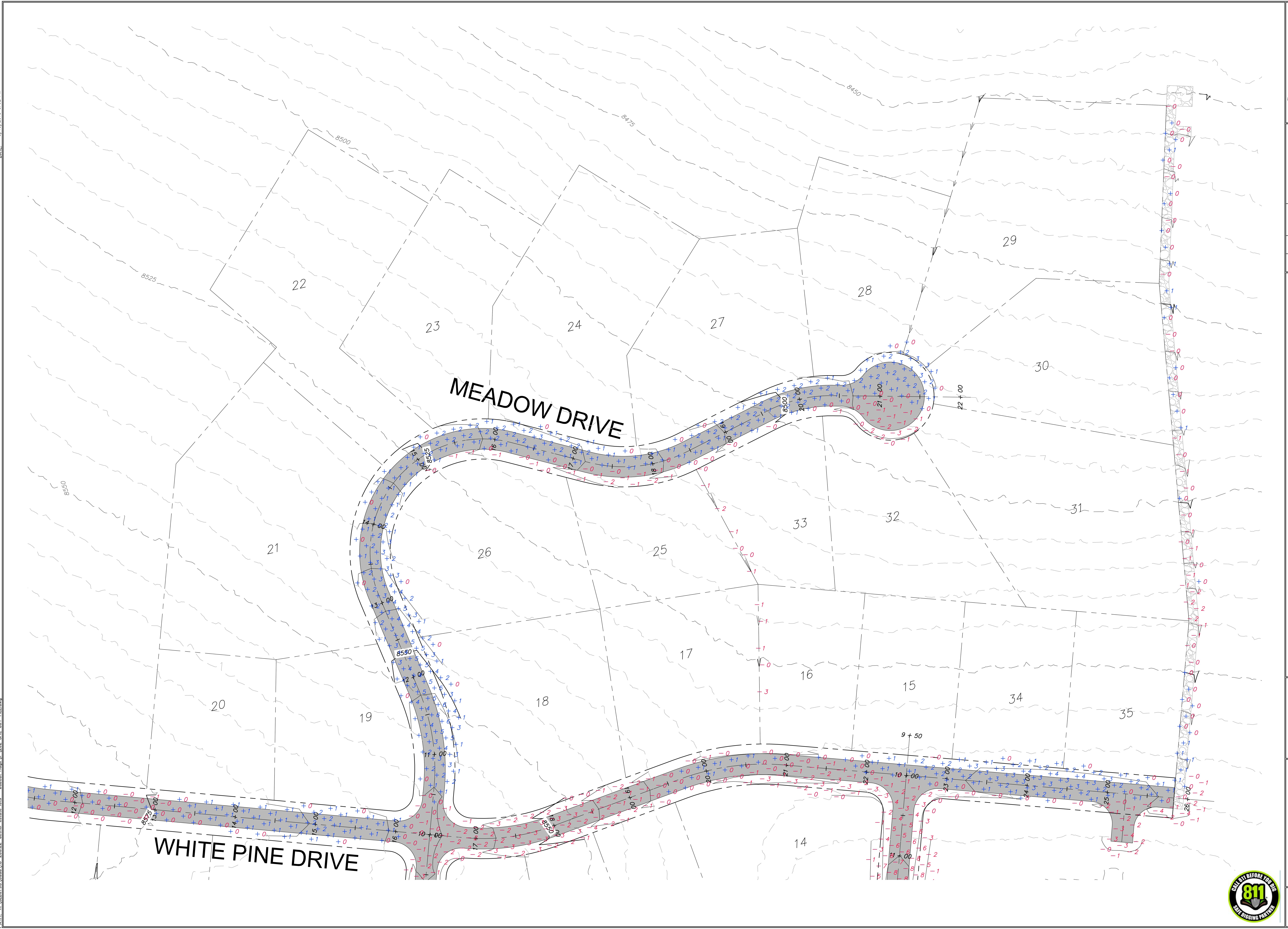

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5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.

SITE CUT-FILL

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

SCALE

HORIZONTAL: 1" = 50'

0 12.5 25 50 150'

CALL 811 BEFORE YOU DIG
811
SAFE DIGGING PARTNER

SHEET NUMBER

202

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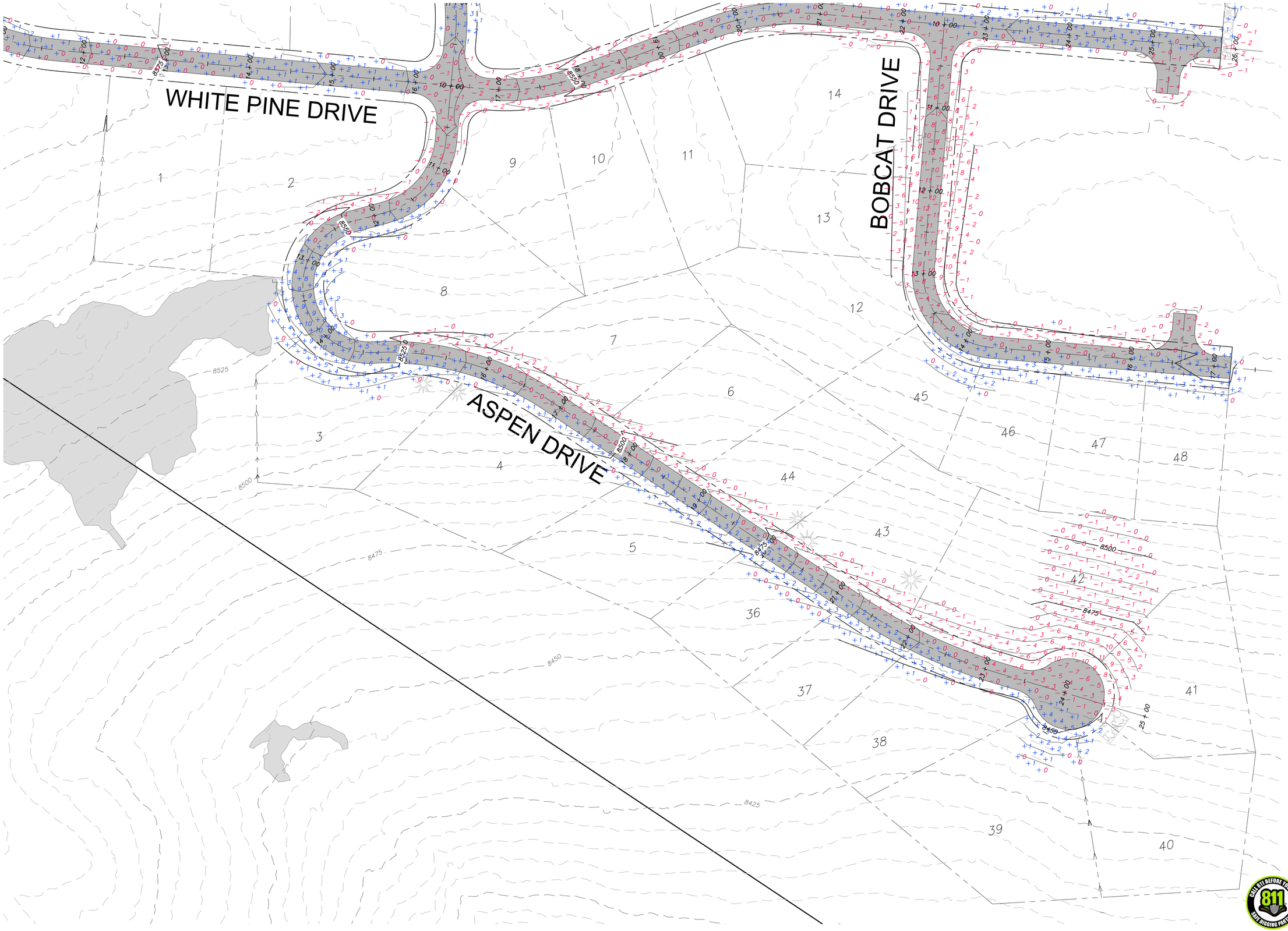

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5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.

SITE CUT-FILL

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
BYAN W. CATHEY
8/13/18
STATE OF UTAH

SCALE
HORIZONTAL: 1" = 50'
0 12.5 25 50 150'

SHEET NUMBER
203
10 OF 59

DATE: 8/13/2018 11:02 AM

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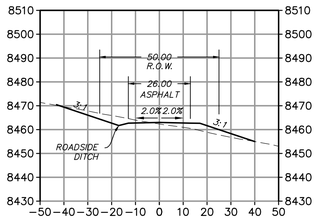
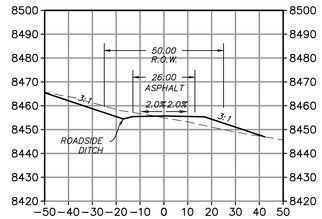
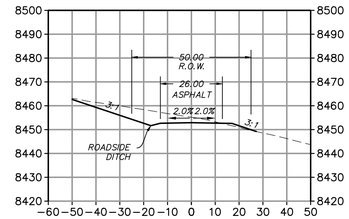


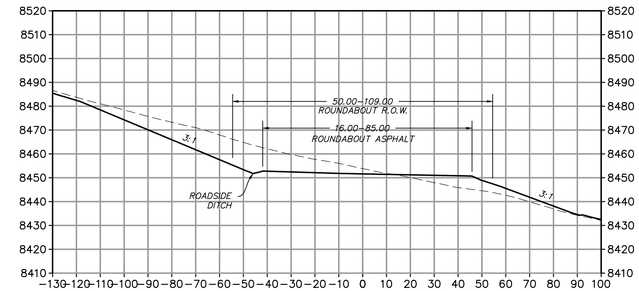
21+00
H: 1"=30'
V: 1"=30'



22+00
H: 1"=30'
V: 1"=30'



23+00
H: 1"=30'
V: 1"=30'



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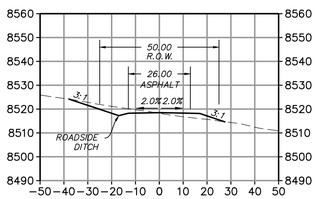

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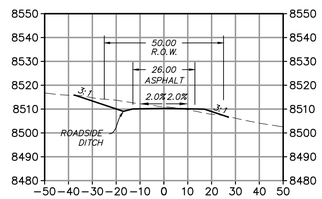

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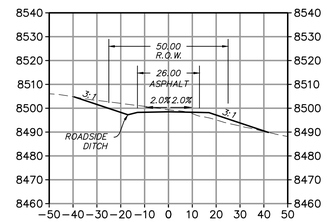

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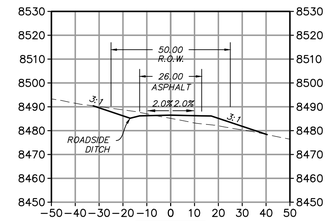

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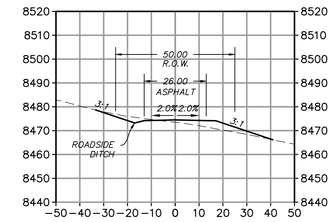

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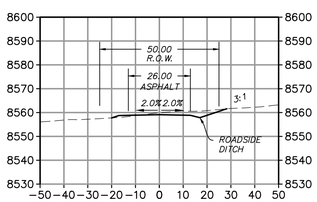

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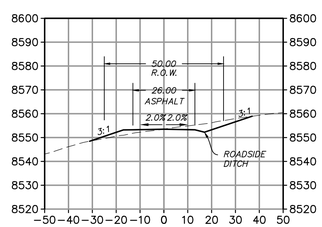

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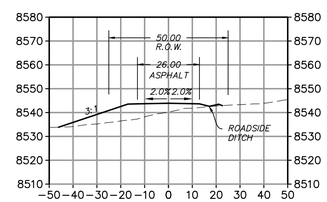

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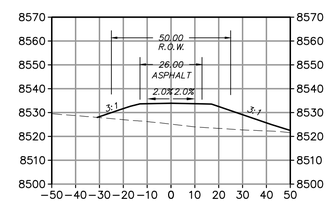

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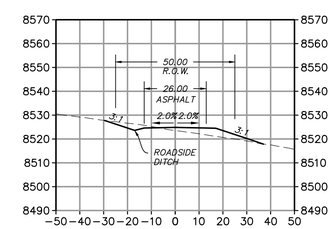


15+00
H: 1"=30'
V: 1"=30'

ASPEN DRIVE ROADWAY SECTIONS

TALISMAN
CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.
ROADWAY SECTIONS

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

VERTICAL: 1" = 30
0 7.5 15 30 45

SCALE

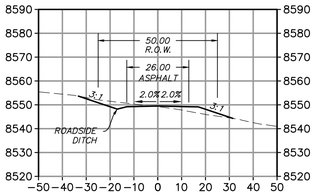
HORIZONTAL: 1" = 30'
0 7.5 15 30 45

CALL 811 BEFORE YOU DIG
811 BLUE STAKES OF UTAH

SHEET NUMBER
204
11 OF 59

DATE: 8/13/2018 11:05 AM

PATH: n:\SLB0793\Cadd\18-200.22-aether estate lots - bobcat ridge\VP\204 ROADWAY SECTIONS.dwg



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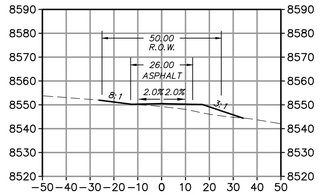

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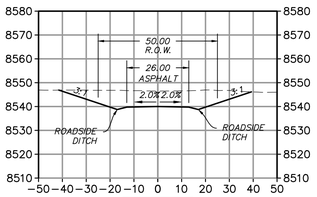

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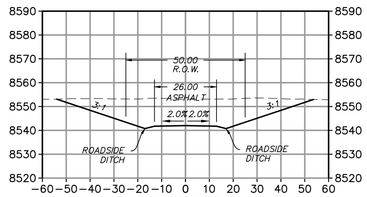

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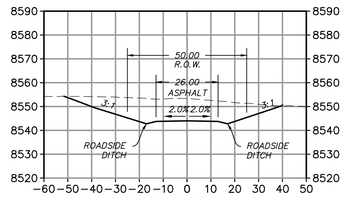

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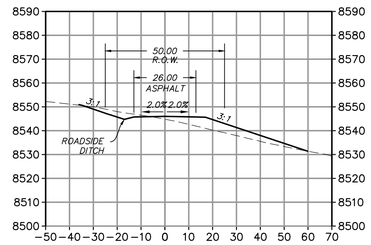

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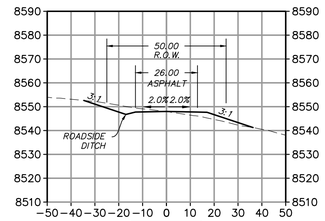

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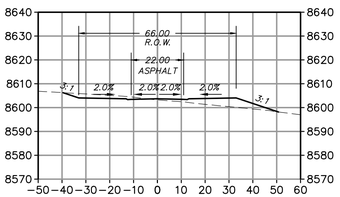
BOBCAT DRIVE ROADWAY SECTIONS



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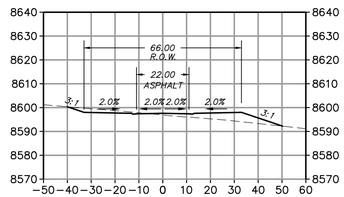

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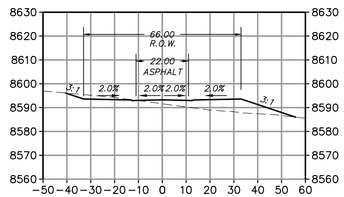

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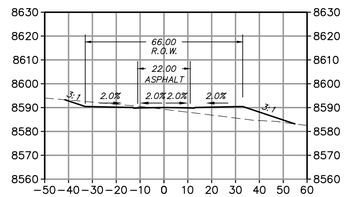

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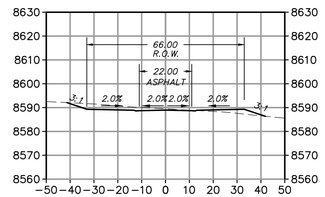

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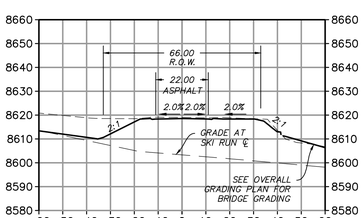

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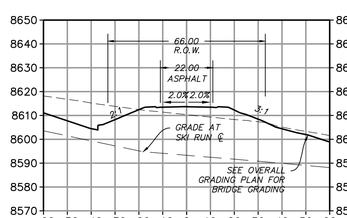

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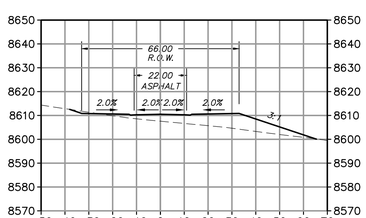

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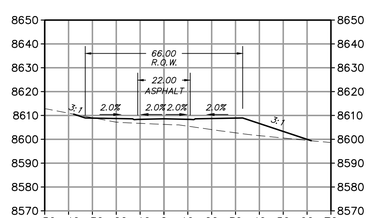

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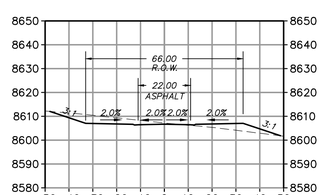


14+00
H: 1"=30'
V: 1"=30'

SUMMIT PASS EXTENSION ROADWAY SECTIONS

TALISMAN
CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
ROADWAY SECTIONS

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
BRYAN W. CATHEY
8/13/18
STATE OF UTAH

VERTICAL: 1" = 30
0 7.5 15 30 45

SCALE

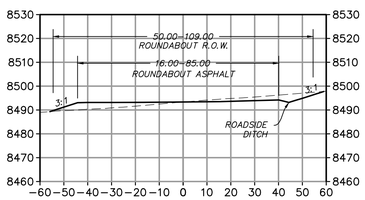
HORIZONTAL: 1" = 30'
0 7.5 15 30 45

CALL 811 BEFORE YOU DIG
811
SAFE DIGGING PARTNER

SHEET NUMBER
205
12 OF 59

DATE: 8/13/2018 11:10 AM

PATH: n:\SLB0793\Cadd\18-200.22-cather estate lots - bobcat ridge\P\205 ROADWAY SECTIONS.dwg



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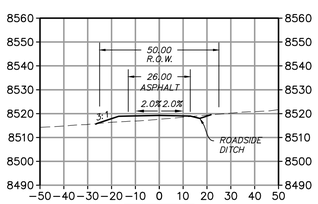

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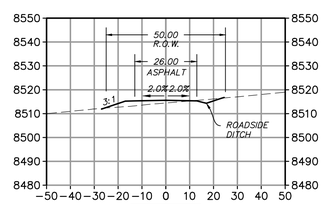

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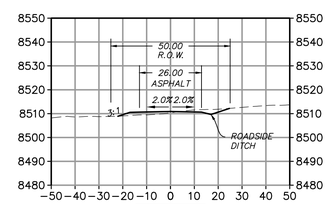

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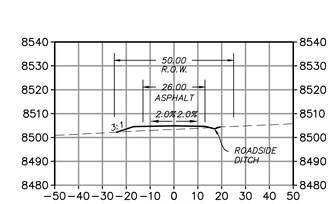

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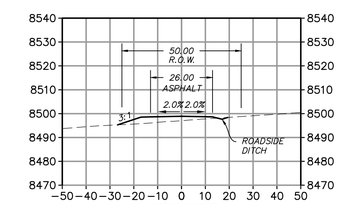

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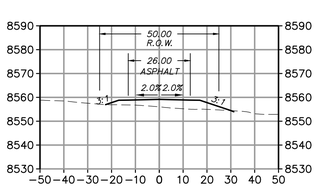

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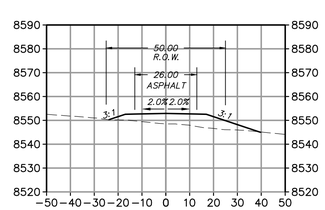

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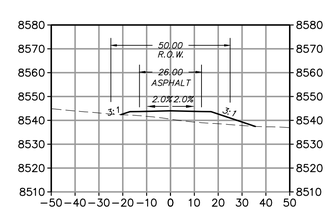

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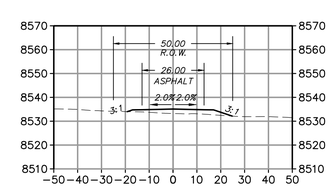

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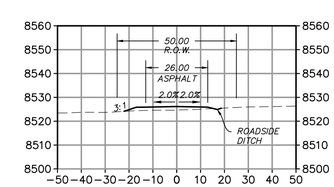


15+00
H: 1"=30'
V: 1"=30'

MEADOW DRIVE ROADWAY SECTIONS

TALISMAN
CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
ROADWAY SECTIONS

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
08/13/18
STATE OF UTAH

VERTICAL: 1" = 30
0 7.5 15 30 45

SCALE

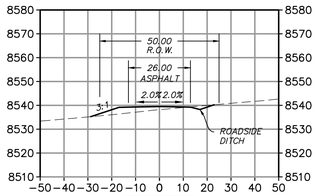
HORIZONTAL: 1" = 30'
0 7.5 15 30 45

CALL 811 BEFORE YOU DIG
811
SAFE DIGGING PAYS!

SHEET NUMBER
206
13 OF 59

DATE: 8/13/2018 11:15 AM

PATH: n:\SLB0793\Cadd\18-200.22-aether estate lots - bobcat ridge\P\206 ROADWAY SECTIONS.dwg



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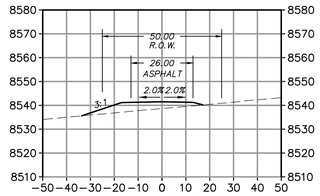
H: 1"=30'
V: 1"=30'



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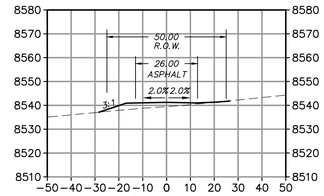

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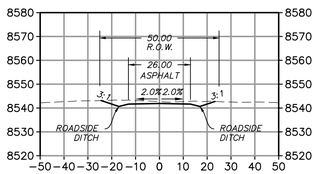
V: 1"=30'



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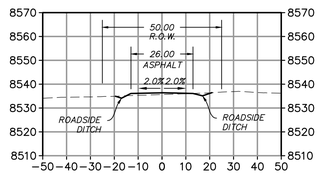
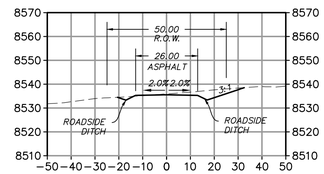
V: 1"=30'



20+00
H: 1"=30'
V: 1"=30'



21+00
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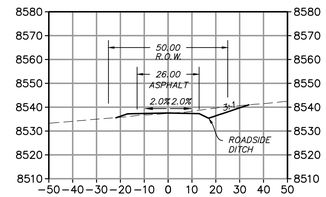
V: 1"=30'



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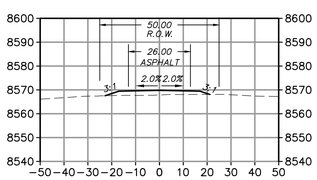
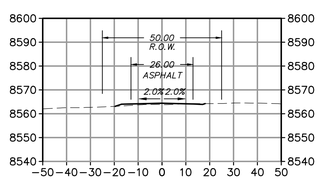
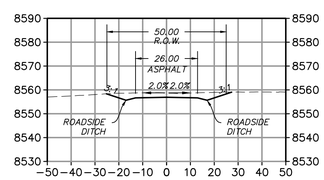


15+00
H: 1"=30'
V: 1"=30'



16+00
H: 1"=30'
V: 1"=30'



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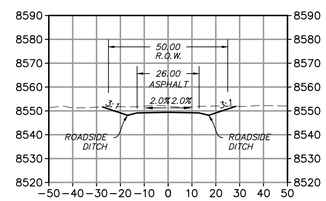
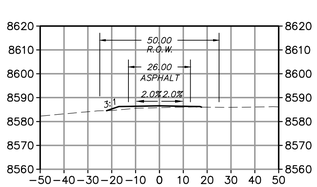
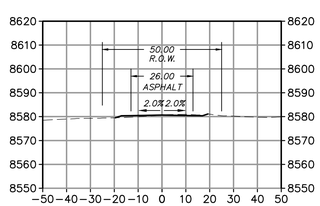
V: 1"=30'



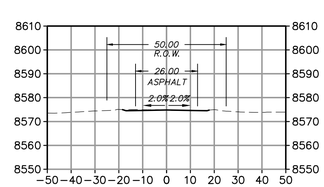
18+00
H: 1"=30'
V: 1"=30'



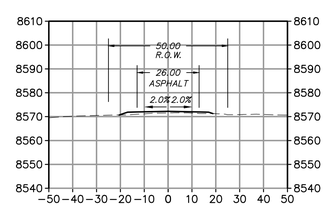
11+00
H: 1"=30'
V: 1"=30'



12+00
H: 1"=30'
V: 1"=30'



13+00
H: 1"=30'
V: 1"=30'



14+00
H: 1"=30'
V: 1"=30'

WHITE PINE DRIVE ROADWAY SECTIONS

TALISMAN
CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
ROADWAY SECTIONS

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

VERTICAL: 1" = 30
0 7.5 15 30 45

SCALE

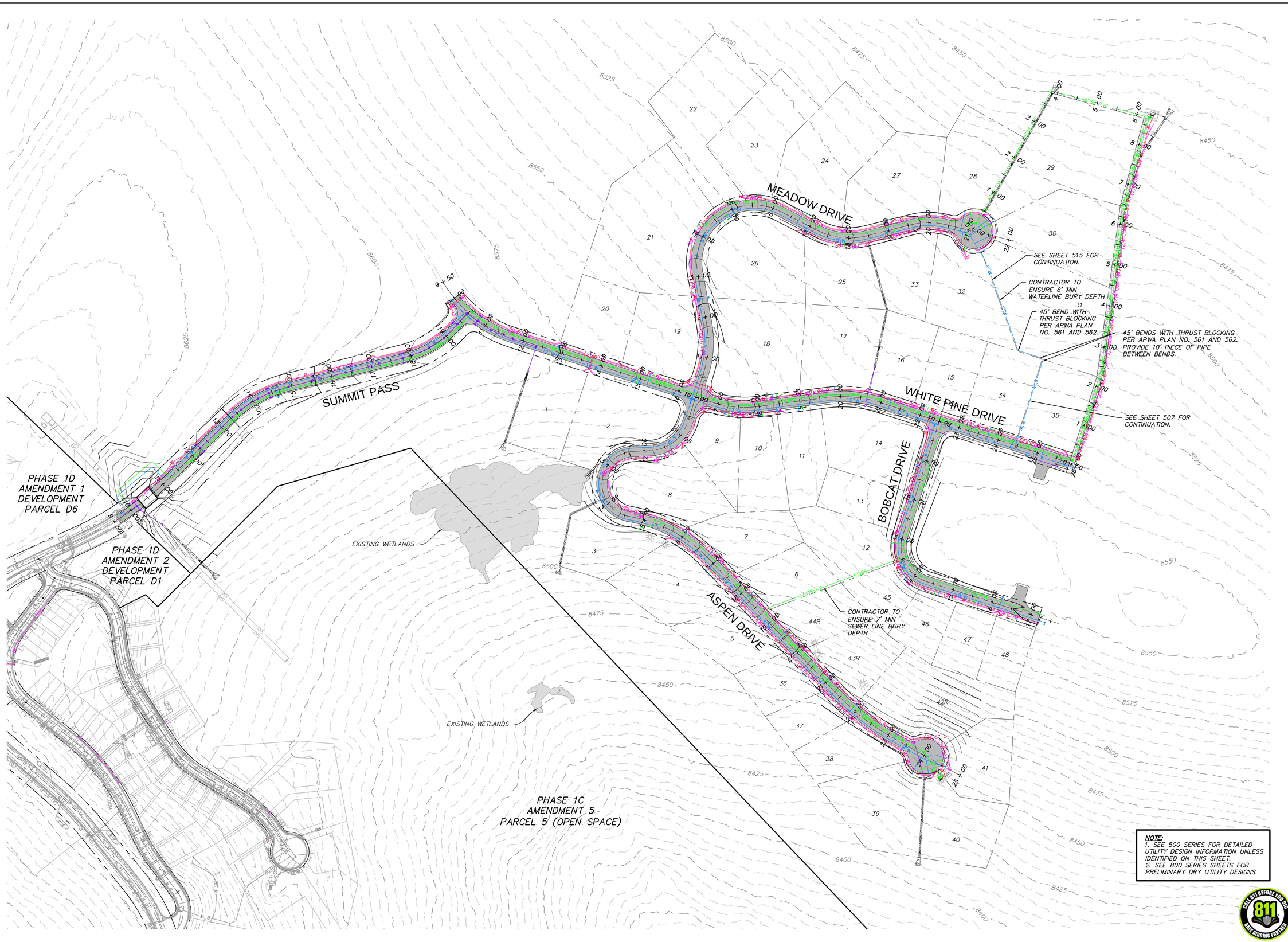
HORIZONTAL: 1" = 30'
0 7.5 15 30 45

CALL 811 BEFORE YOU DIG
811
SAFE DIGGING PARTNER

SHEET NUMBER
207
14 OF 59

DATE: 8/13/2018 11:20 AM

PATH: n:\SLB0793\Cadd\18-200.22-aether estate lots - bobcat ridge\P\207 ROADWAY SECTIONS.dwg



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5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.
OVERALL UTILITY PLAN

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

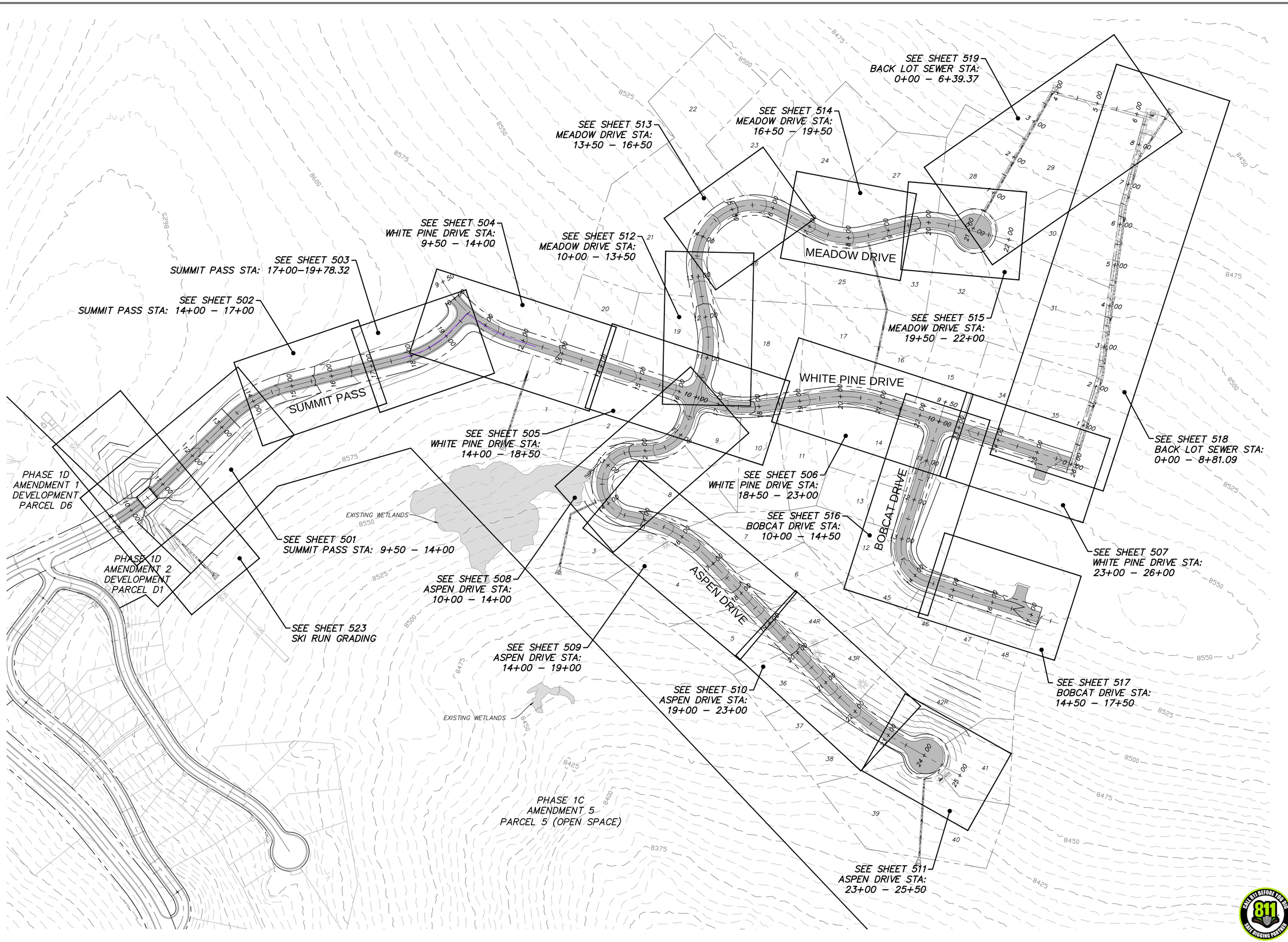
REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
08/13/18
STATE OF UTAH

SCALE
HORIZONTAL: 1" = 100'
0 25' 50' 100' 150'

SHEET NUMBER
400
15 OF 59

DATE: 8/13/2018 2:13 PM

PATH: N:\SLB0793\Cads\18-200.22-aether estate lots - bobcat ridge\IP\400 OVERALL UTILITY PLAN.dwg



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SUITE 200
MURRAY, UT 84107
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NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE KEY MAP

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

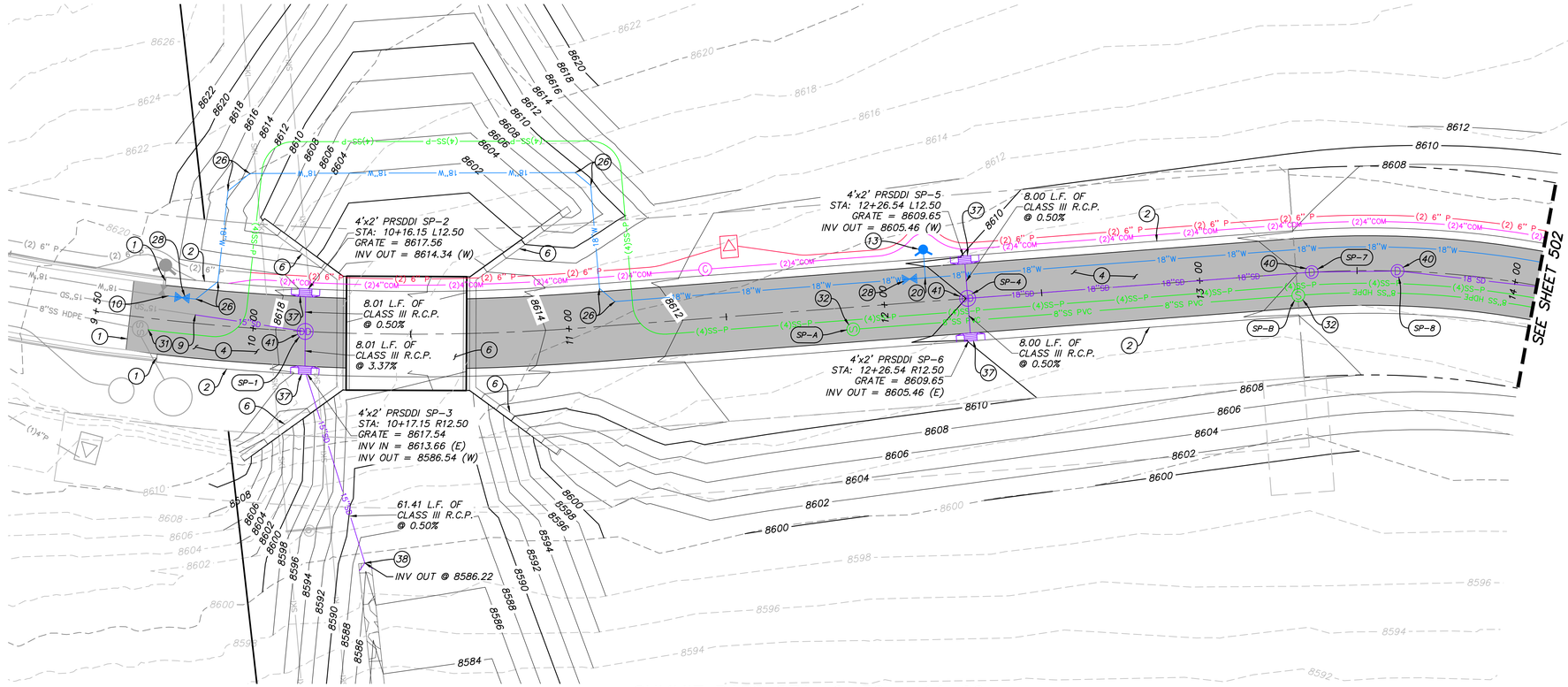
SCALE
HORIZONTAL: 1" = 100'
0 25' 50' 100' 150'

SHEET NUMBER
500
16 OF 59

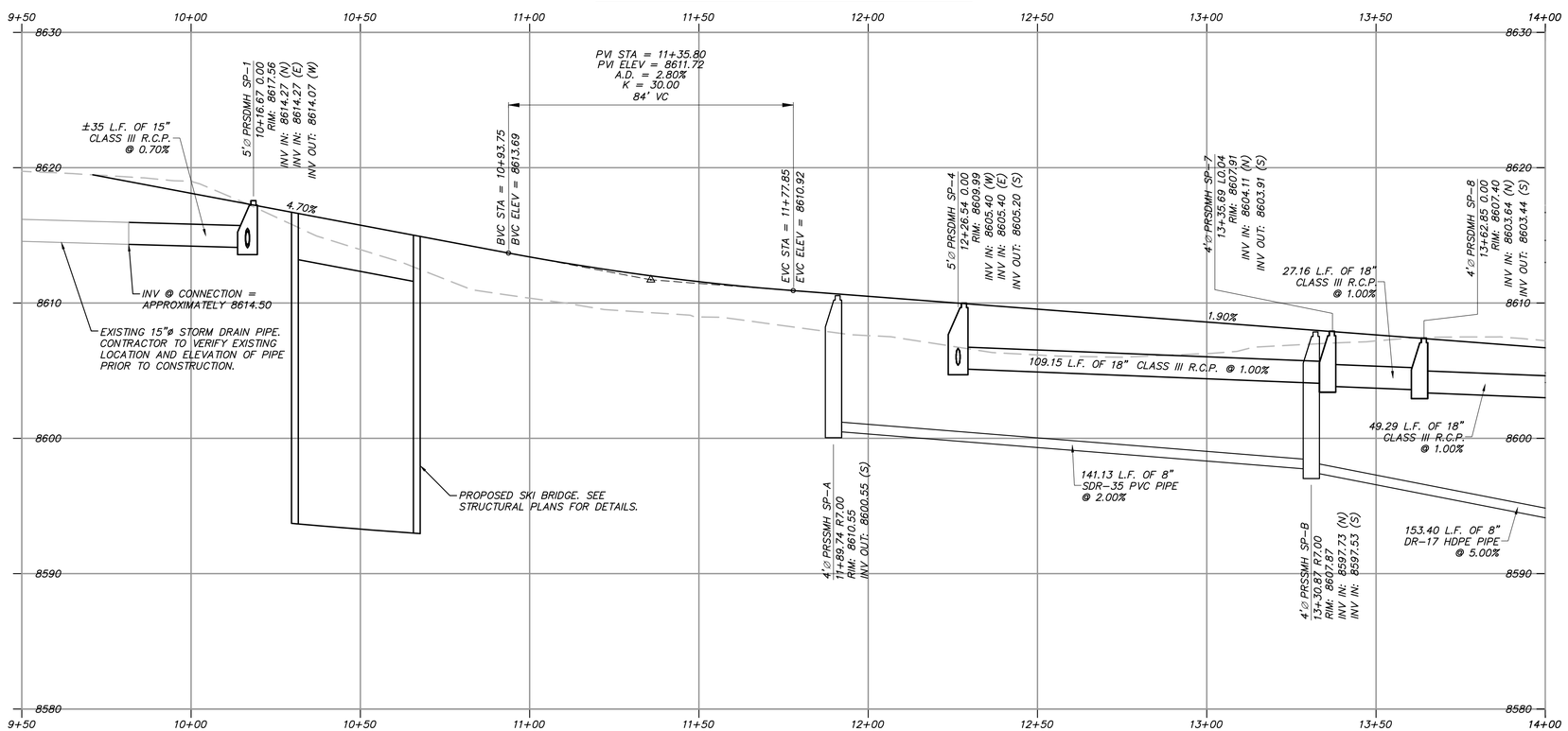
CALL 811 BEFORE YOU DIG
SAFE DIGGING PAYS!

DATE: 8/13/2018 3:05 PM

PATH: n:\SUB0793\Cad\18-200.22-aether estate lots - bobcat ridge\IP\500 PLAN AND PROFILE KEY MAP.dwg



SUMMIT PASS STA: 9+50 – 14+00



PROFILE VIEW

SCALE
VERTICAL: 1" = 5'
0 1.25' 2.5' 5' 7.5'

SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

SITE SCOPE OF WORK:

NOTE: DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

1. MATCH EXISTING.
2. TYPE 'F' CURB AND GUTTER PER APWA PLAN NO. 205.
3. TRANSITION CURB AND GUTTER TO ZERO INTERFACE WITH ASPHALT.
4. ASPHALT PAVEMENT PER PAVEMENT SECTION A/SHEET 003.
5. INSTALL DRAINAGE SWALE PER DETAIL A/SHEET 703.
6. REFER TO STRUCTURAL DRAWINGS FOR BRIDGE AND WING WALL DETAILS.
7. D50 = 9"ø RIP RAP.
8. ACCESS ROAD PER SECTION ON SHEET 004.
9. CONNECT TO EXISTING 15ø STORM DRAIN PIPE.
10. CONNECT TO EXISTING 18"ø WATER LINE.
11. 2"ø WATER SERVICE TAP PER APWA PLAN NO. 552.
12. 2"ø WATER SERVICE LATERAL PER DETAIL A/SHEET 702.
13. FIRE HYDRANT ASSEMBLY PER PMWSID PLAN NO. 511S.
14. 4"ø WASHOUT VALVE PER APWA PLAN NO. 571.
15. AIR RELEASE ASSEMBLY PER APWA PLAN NO. 575.
16. INSTALL PRESSURE RELEASE VALVE (PRV) AND VAULT PER DETAIL SHEET 708.
17. 18"x12" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
18. 12"x8" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
19. 18"x18"x18" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
20. 18"x6"x18" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
21. 12"x8"x12" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
22. 12"x6"x12" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
23. 8"x8"x8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
24. 8"x6"x8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
25. 12"ø CROSS WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561 AND 562.
26. 18"ø 45° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
27. 8"ø 45° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
28. 18"ø BUTTERFLY VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
29. 12"ø GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
30. 8"ø GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
31. CONNECT PRESSURE SEWER LINE TO EXISTING SANITARY SEWER MANHOLE.
32. 4'ø SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER APWA PLAN NO. 402.
33. 5'ø SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER APWA PLAN NO. 402.
34. 4"ø SANITARY SEWER LATERAL PER DETAIL B/SHEET 702.
35. INSTALL BR-2 GRINDER PUMP STATION PER DETAIL SHEET 706.
36. INSTALL BR-1 GRINDER PUMP STATION PER DETAIL SHEET 707.
37. 2'x4' CATCH BASIN PER APWA PLAN NO. 315.
38. FLARED END SECTION PER APWA PLAN NO. 323.
39. 3'x3' PRECAST BOX WITH GRATED LID PER APWA PLAN NO. 332.
40. 4'ø PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 WITH SOLID LID PER APWA PLAN NO. 302.
41. 5'ø PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 WITH SOLID LID PER APWA PLAN NO. 302.
42. CAP AND MARK UTILITY LINE FOR FUTURE CONNECTION.
43. 8"x6" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.

TALISMAN
CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
SUMMIT PASS STA: 9+50 - 14+00

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

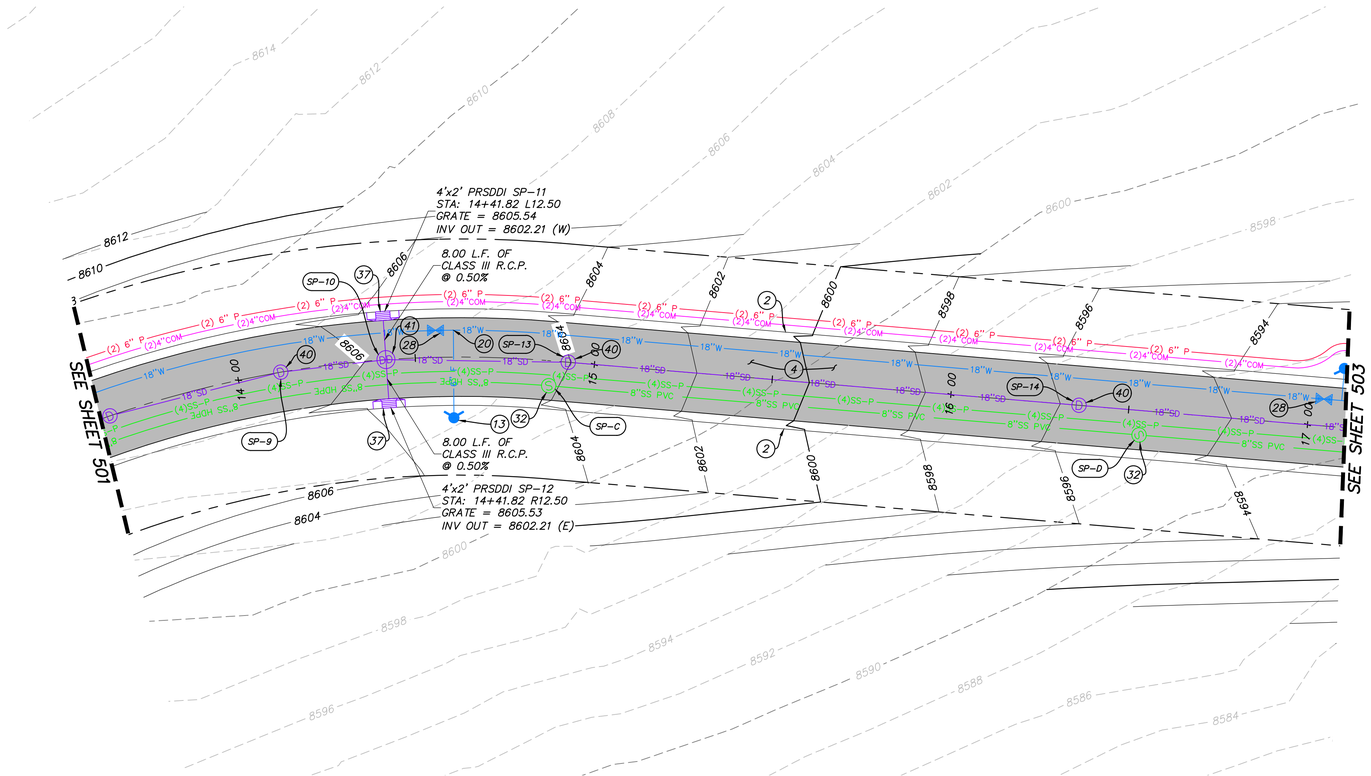
SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

SHEET NUMBER
501
17 OF 59

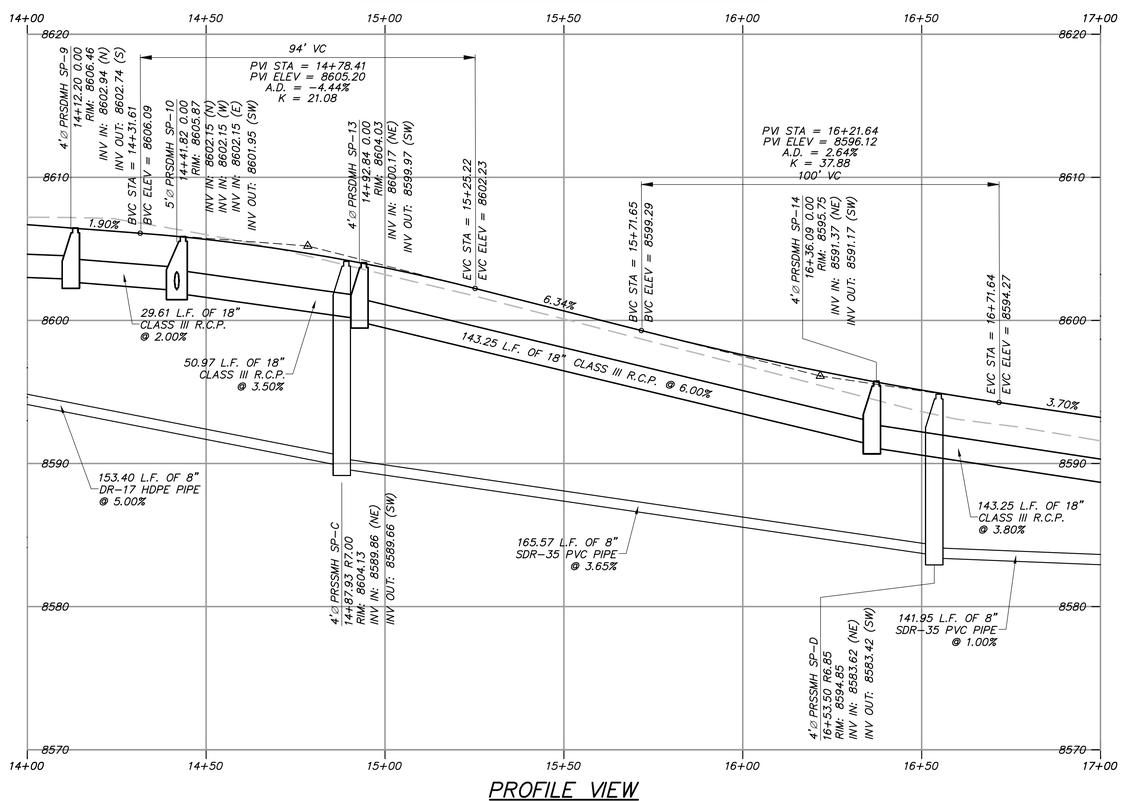
CALL 811 BEFORE YOU DIG
SAFE DIGGING PARTNER

DATE: 8/13/2018 11:36 AM

PATH: n:\SLB0793\Cadd\18-200.22-cather estate lots - bobcat ridge\PA\001 PLAN AND PROFILE.dwg



SUMMIT PASS STA: 14+00 – 17+00



PROFILE VIEW

SCALE
VERTICAL: 1" = 5'
0 1.25' 2.5' 5' 7.5'

SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

SITE SCOPE OF WORK:

NOTE: DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.

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5. INSTALL DRAINAGE SWALE PER DETAIL A/SHEET 703.
6. REFER TO STRUCTURAL DRAWINGS FOR BRIDGE AND WING WALL DETAILS.
7. D50 = 9"ø RIP RAP.
8. ACCESS ROAD PER SECTION ON SHEET 004.
9. CONNECT TO EXISTING 15ø STORM DRAIN PIPE.
10. CONNECT TO EXISTING 18"ø WATER LINE.
11. 2"ø WATER SERVICE TAP PER APWA PLAN NO. 552.
12. 2"ø WATER SERVICE LATERAL PER DETAIL A/SHEET 702.
13. FIRE HYDRANT ASSEMBLY PER PMWSID PLAN NO. 511S.
14. 4"ø WASHOUT VALVE PER APWA PLAN NO. 571.
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19. 18"x18"x18" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
20. 18"x6"x18" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
21. 12"x8"x12" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
22. 12"x6"x12" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
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29. 12"ø GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
30. 8"ø GATE VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
31. CONNECT PRESSURE SEWER LINE TO EXISTING SANITARY SEWER MANHOLE.
32. 4'ø SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER APWA PLAN NO. 402.
33. 5'ø SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER APWA PLAN NO. 402.
34. 4"ø SANITARY SEWER LATERAL PER DETAIL B/SHEET 702.
35. INSTALL BR-2 GRINDER PUMP STATION PER DETAIL SHEET 706.
36. INSTALL BR-1 GRINDER PUMP STATION PER DETAIL SHEET 707.
37. 2'x4' CATCH BASIN PER APWA PLAN NO. 315.
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TALISMAN
CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
SUMMIT PASS STA: 14+00 - 17+00

TCC JOB NUMBER: 18.200.22
DATE SUBMITTED: 08.13.2018

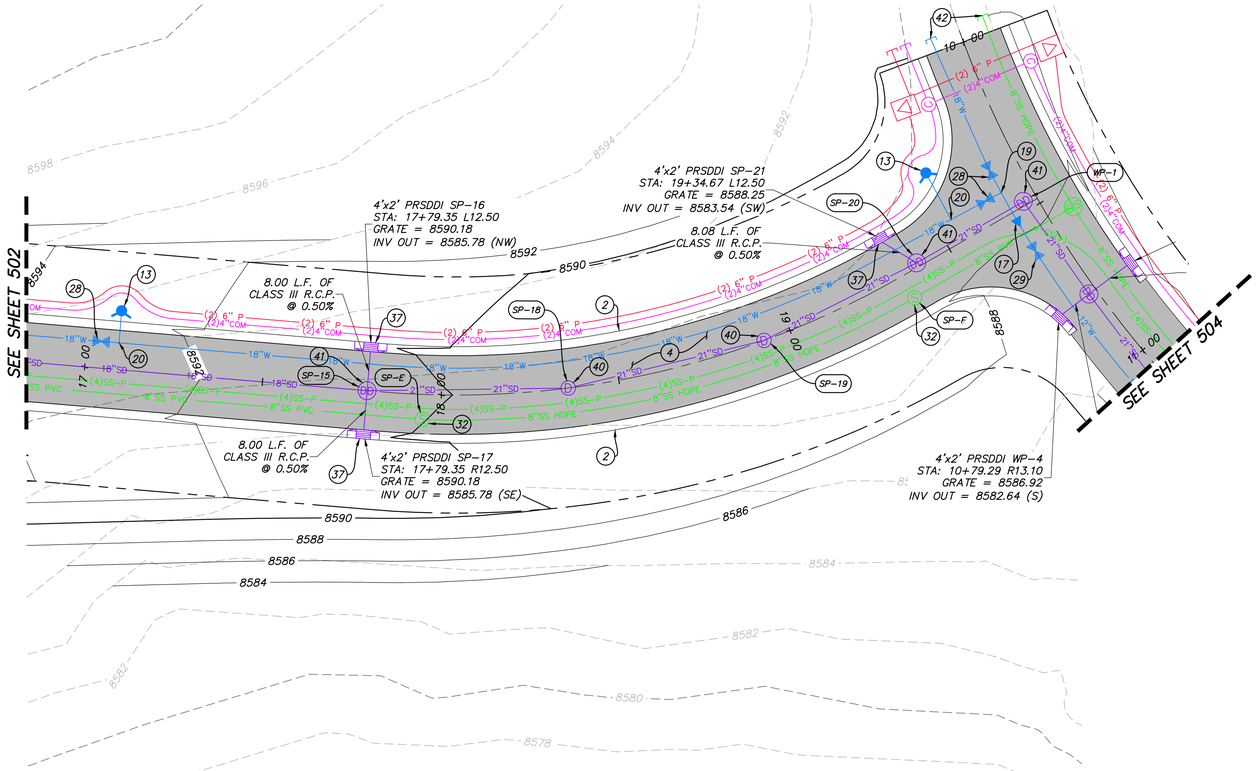
REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN M. CATHEY
8/13/18
STATE OF UTAH

SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

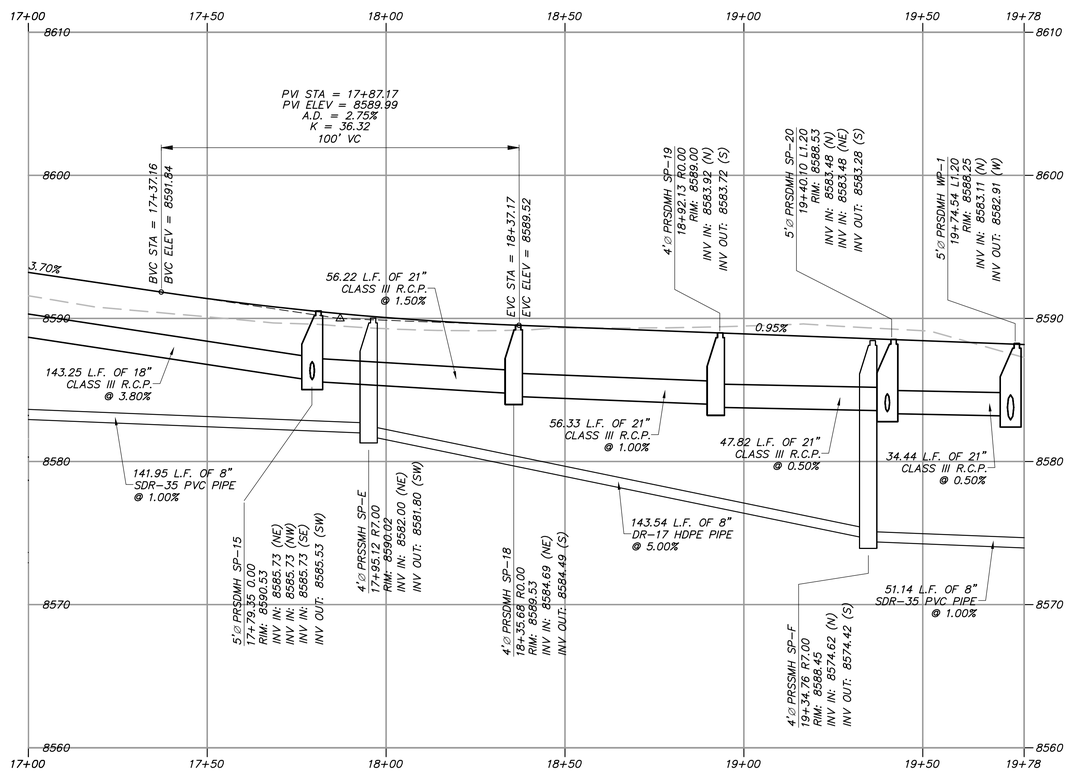
SHEET NUMBER
502
18 OF 59

DATE: 8/13/2018 11:39 AM

PATH: n:\SLB0793\Cadd\18-200.22-aether estate lots - bobcat ridge\PL\502 PLAN AND PROFILE.dwg



SUMMIT PASS STA: 17+00 – 19+78.32



PROFILE VIEW

SCALE
VERTICAL: 1" = 5'
0 1.25' 2.5' 5' 7.5'

SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

SITE SCOPE OF WORK:

NOTE: DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.

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10. CONNECT TO EXISTING 18"ø WATER LINE.
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26. 18"ø 45° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
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TALISMAN
CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
SUMMIT PASS STA: 17+00 - 19+78.32

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

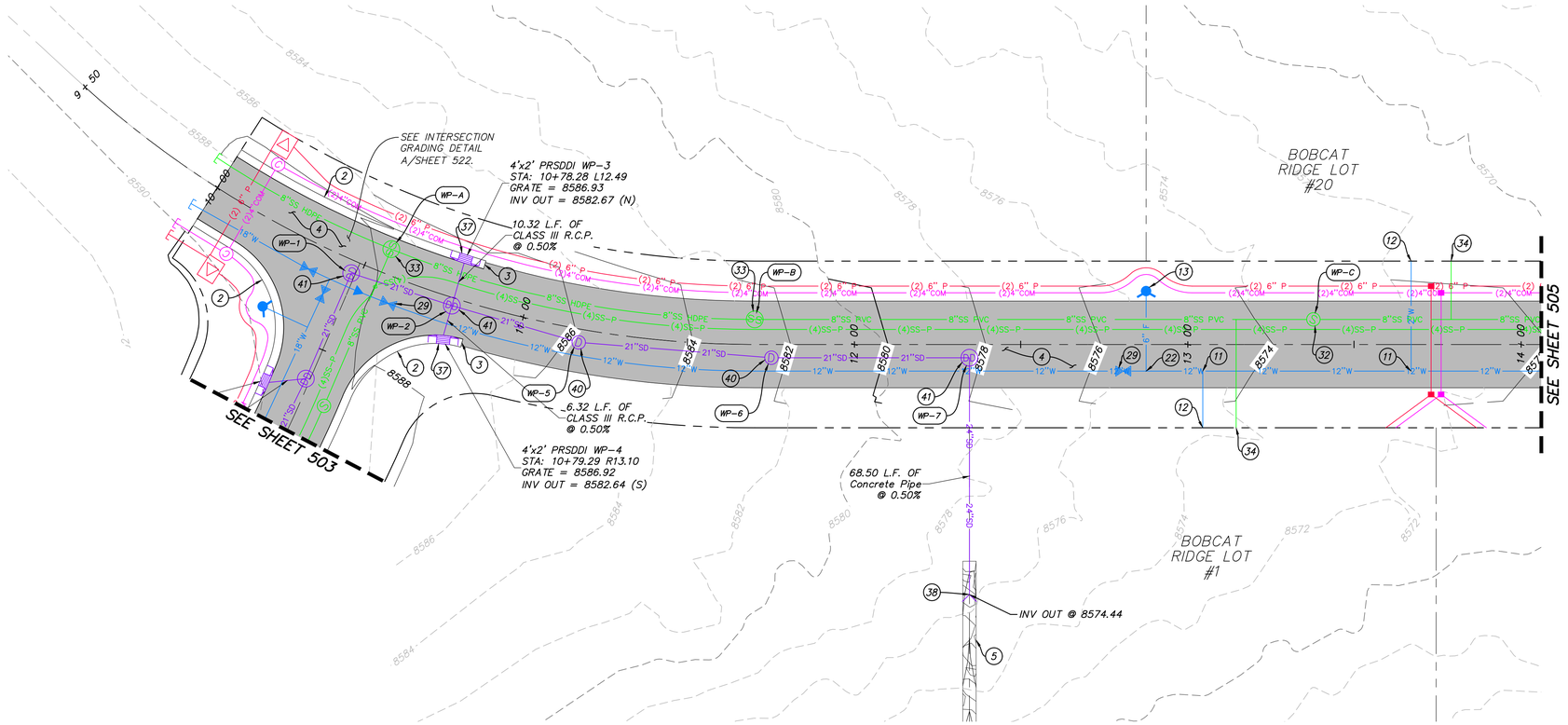
SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

CALL 811 BEFORE YOU DIG
811 SAFE DIGGING PAYING

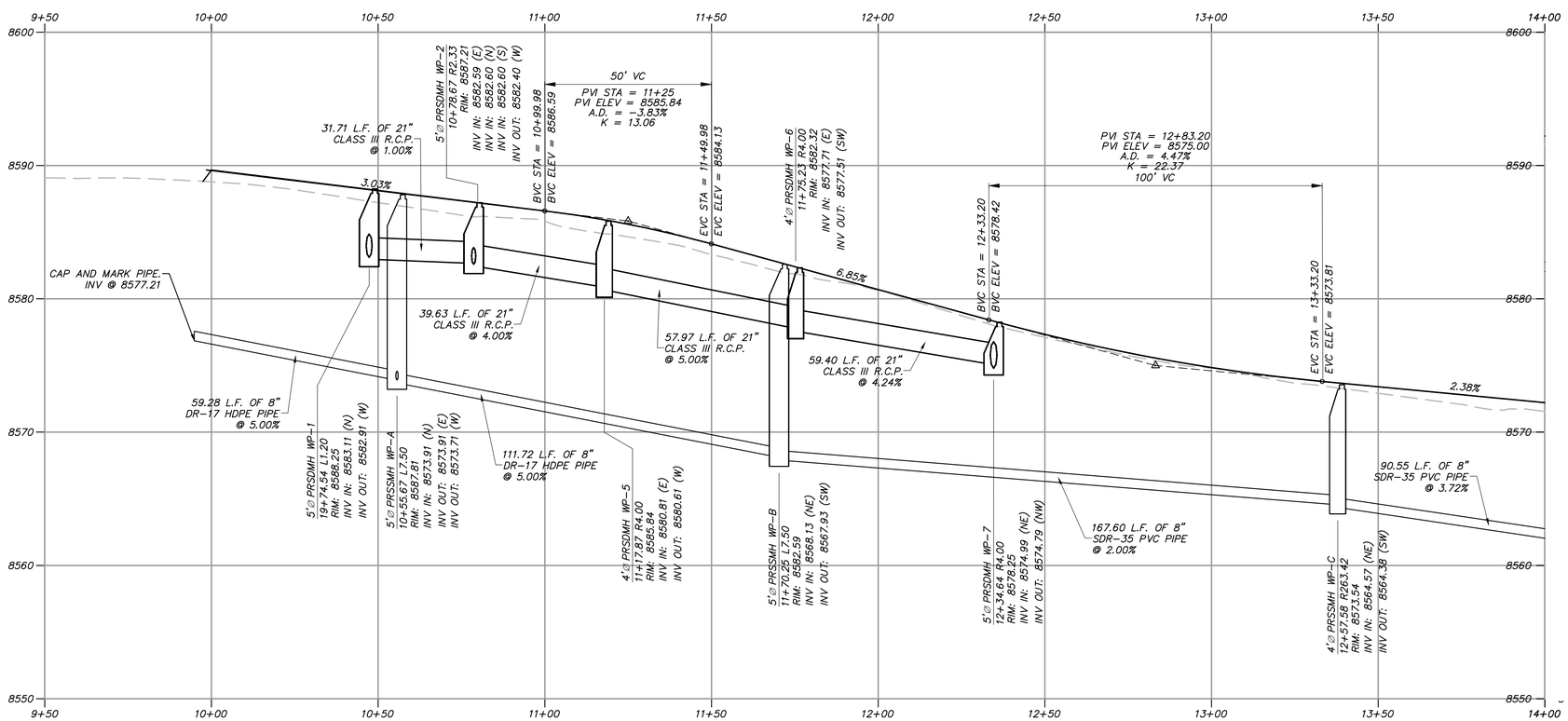
SHEET NUMBER
503
19 OF 59

DATE: 8/13/2018 11:43 AM

PATH: n:\SLB0793\Cadd\18-200.22-gether estate lots - bobcat ridge\PP\503 PLAN AND PROFILE.dwg



WHITE PINE DRIVE STA: 9+50 – 14+00



PROFILE VIEW

SCALE
VERTICAL: 1" = 5'
0 1.25' 2.5' 5' 7.5'

SCALE
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SITE SCOPE OF WORK:

NOTE: DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

1. MATCH EXISTING.
2. TYPE 'F' CURB AND GUTTER PER APWA PLAN NO. 205.
3. TRANSITION CURB AND GUTTER TO ZERO INTERFACE WITH ASPHALT.
4. ASPHALT PAVEMENT PER PAVEMENT SECTION A/SHEET 003.
5. INSTALL DRAINAGE SWALE PER DETAIL A/SHEET 703.
6. REFER TO STRUCTURAL DRAWINGS FOR BRIDGE AND WING WALL DETAILS.
7. D50 = 9"ø RIP RAP.
8. ACCESS ROAD PER SECTION ON SHEET 004.
9. CONNECT TO EXISTING 15ø STORM DRAIN PIPE.
10. CONNECT TO EXISTING 18"ø WATER LINE.
11. 2"ø WATER SERVICE TAP PER APWA PLAN NO. 552.
12. 2"ø WATER SERVICE LATERAL PER DETAIL A/SHEET 702.
13. FIRE HYDRANT ASSEMBLY PER PMWSID PLAN NO. 511S.
14. 4"ø WASHOUT VALVE PER APWA PLAN NO. 571.
15. AIR RELEASE ASSEMBLY PER APWA PLAN NO. 575.
16. INSTALL PRESSURE RELEASE VALVE (PRV) AND VAULT PER DETAIL SHEET 708.
17. 18"x12" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
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35. INSTALL BR-2 GRINDER PUMP STATION PER DETAIL SHEET 706.
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37. 2'x4' CATCH BASIN PER APWA PLAN NO. 315.
38. FLARED END SECTION PER APWA PLAN NO. 323.
39. 3'x3' PRECAST BOX WITH GRATED LID PER APWA PLAN NO. 332.
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42. CAP AND MARK UTILITY LINE FOR FUTURE CONNECTION.
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TALISMAN CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
WHITE PINE DRIVE STA: 9+50 - 14+00

TCC JOB NUMBER: 18.200.22

DATE SUBMITTED: 08.13.2018

REGISTERED PROFESSIONAL ENGINEER No. 7899506 RYAN W. CATHEY 8/13/18 STATE OF UTAH

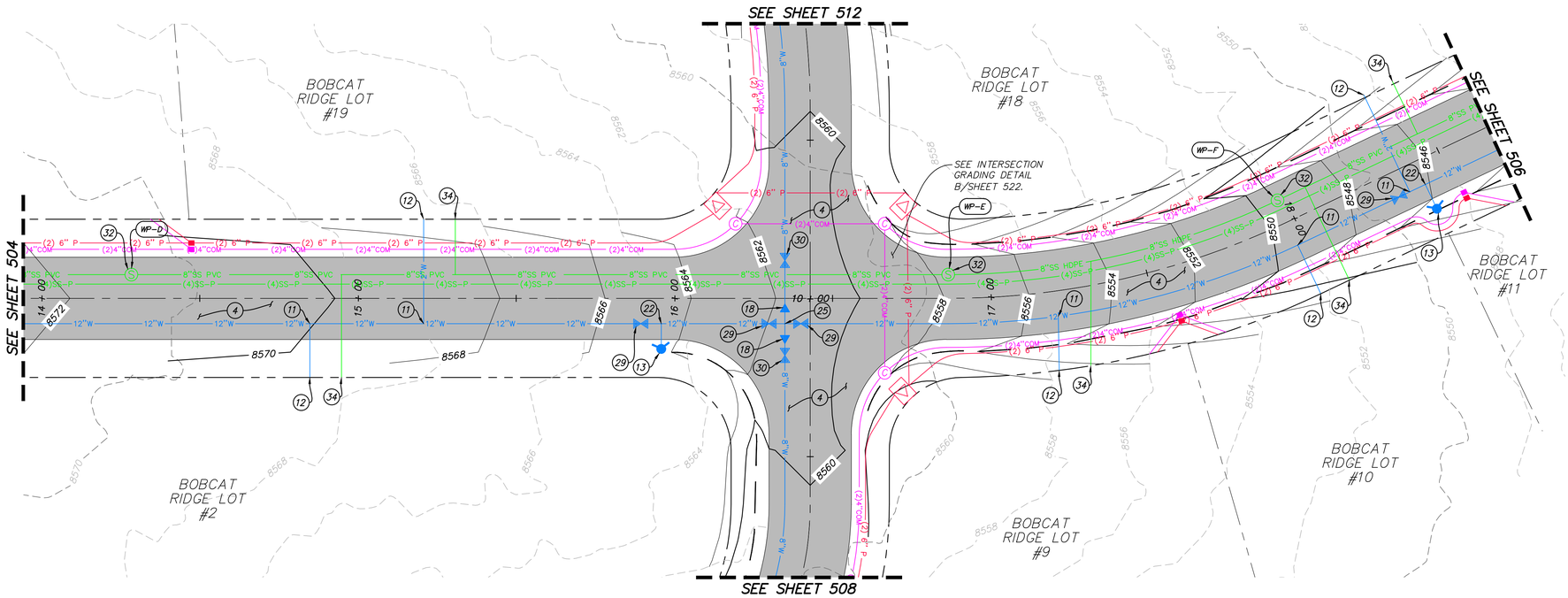
SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

SHEET NUMBER
504
20 OF 59

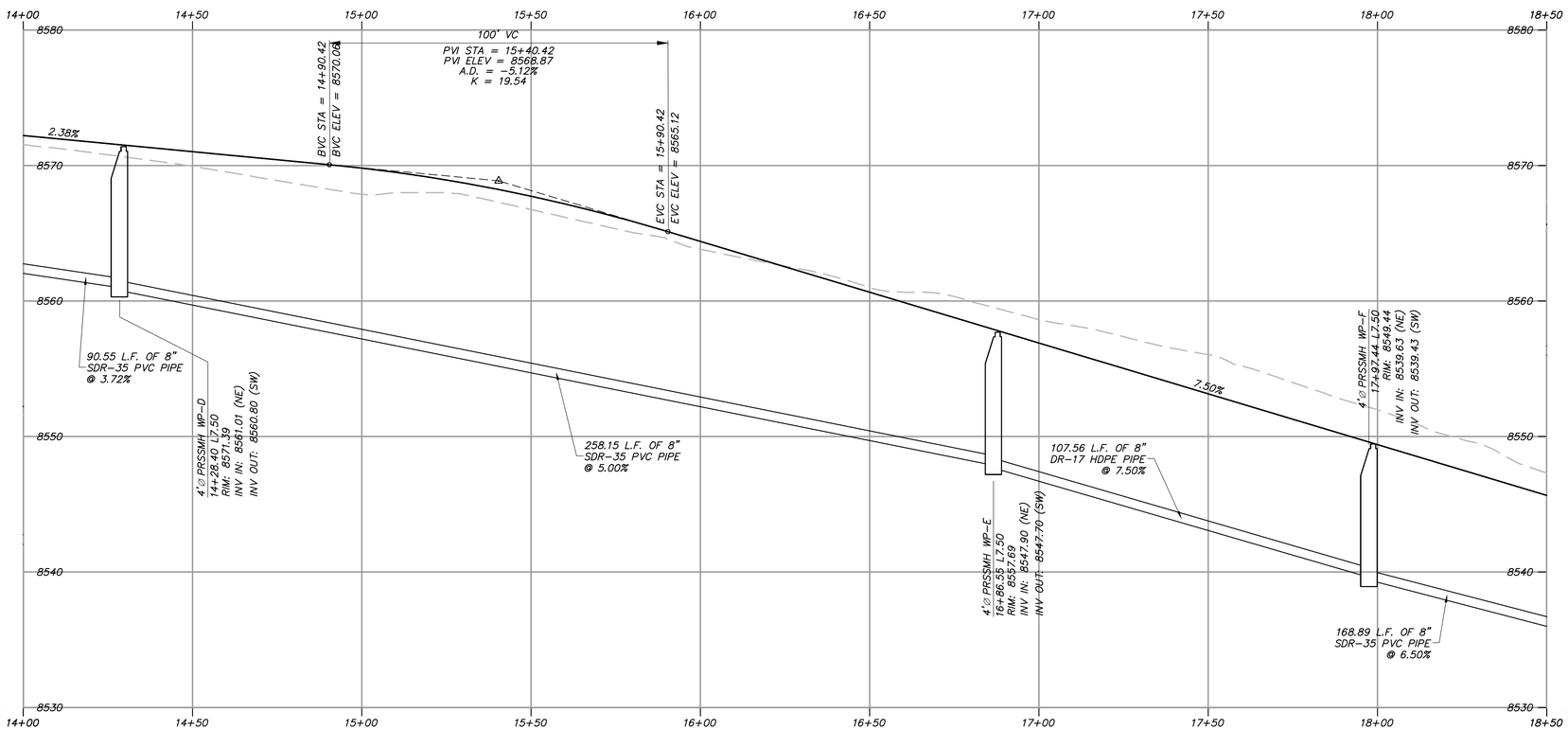
CALL 811 BEFORE YOU DIG SAFE DIGGING PARTNER

DATE: 8/13/2018 11:46 AM

PATH: n:\SLB0793\Cadd\18-200.22-cather estate lots - bobcat ridge\IP\504 PLAN AND PROFILE.dwg



WHITE PINE DRIVE STA: 14+00 – 18+50



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NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
WHITE PINE DRIVE STA: 14+00 - 18+50

TCC JOB NUMBER: 18.200.22
DATE SUBMITTED: 08.13.2018

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
BYAN W. CATHEY
8/13/18
STATE OF UTAH

SCALE
HORIZONTAL: 1" = 20'
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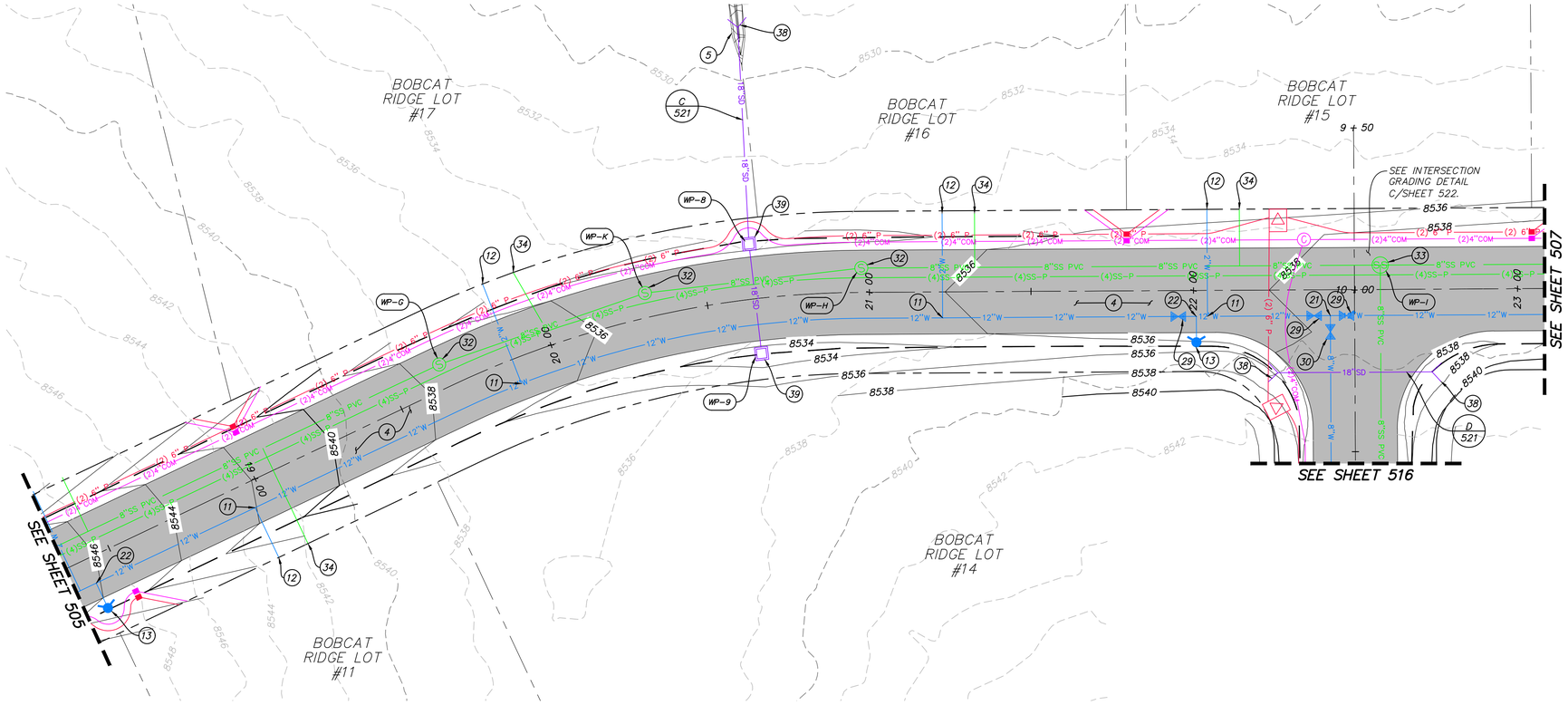
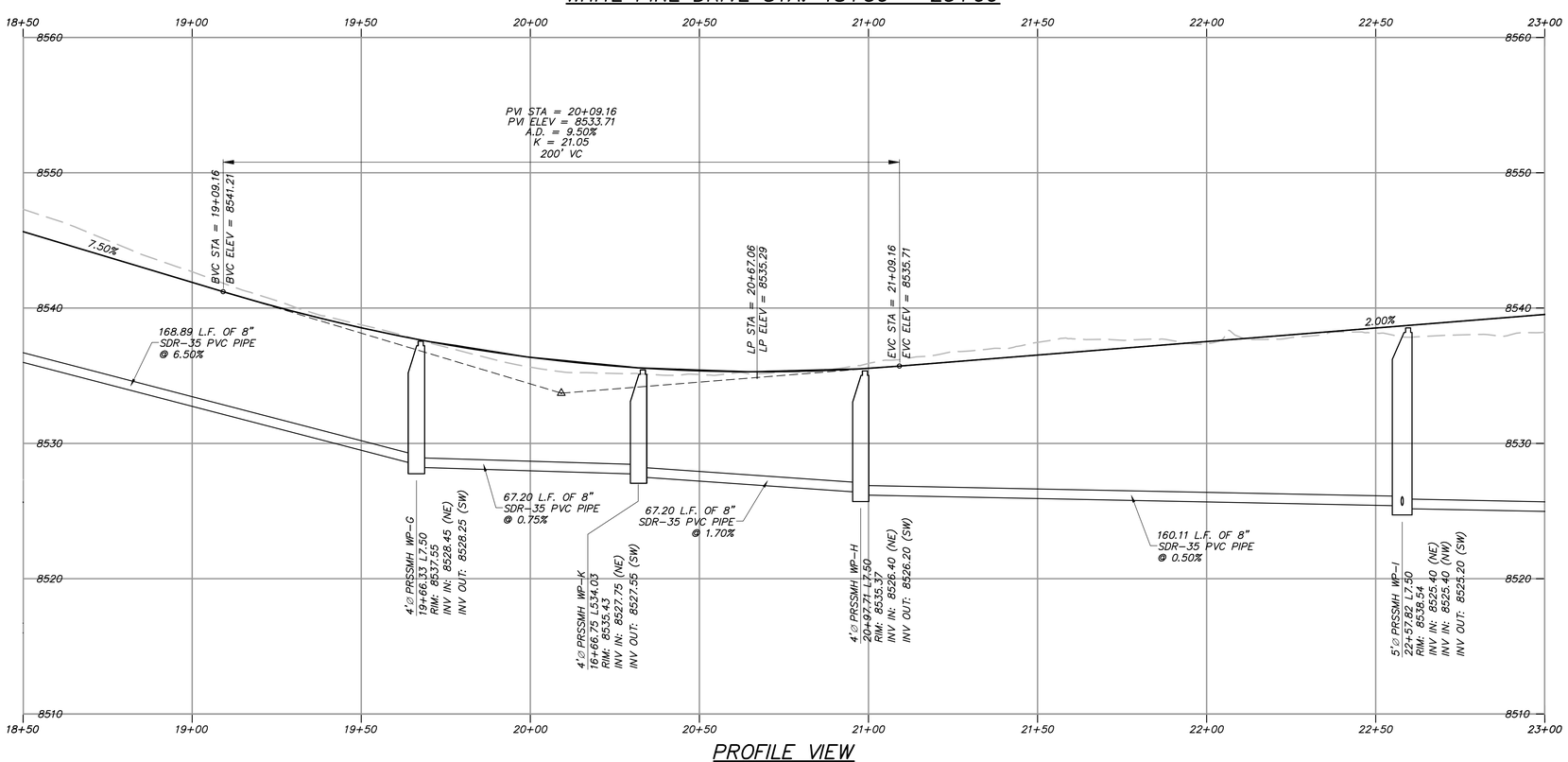
SHEET NUMBER
505
21 OF 59

DATE: 8/13/2018 1:29 PM
PATH: N:\18.0793\Cadd\18-200.22-Aether Estate Lots - Bobcat Ridge\PA505 PLAN AND PROFILE.dwg



WHITE PINE DRIVE STA: 18+50 – 23+00



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NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
WHITE PINE DRIVE STA: 18+50 - 23+00

TCC JOB NUMBER: 18.200.22
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BRYAN W. CATHEY
8/13/18
STATE OF UTAH

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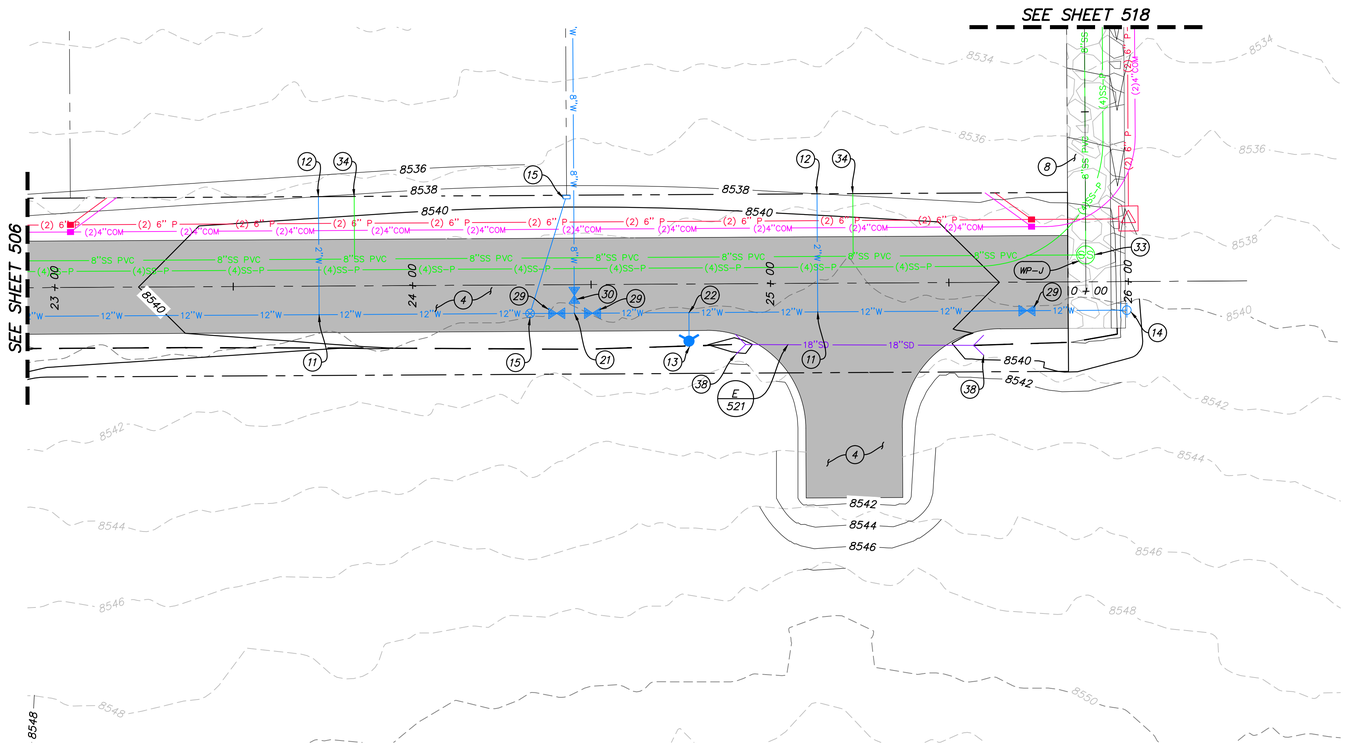
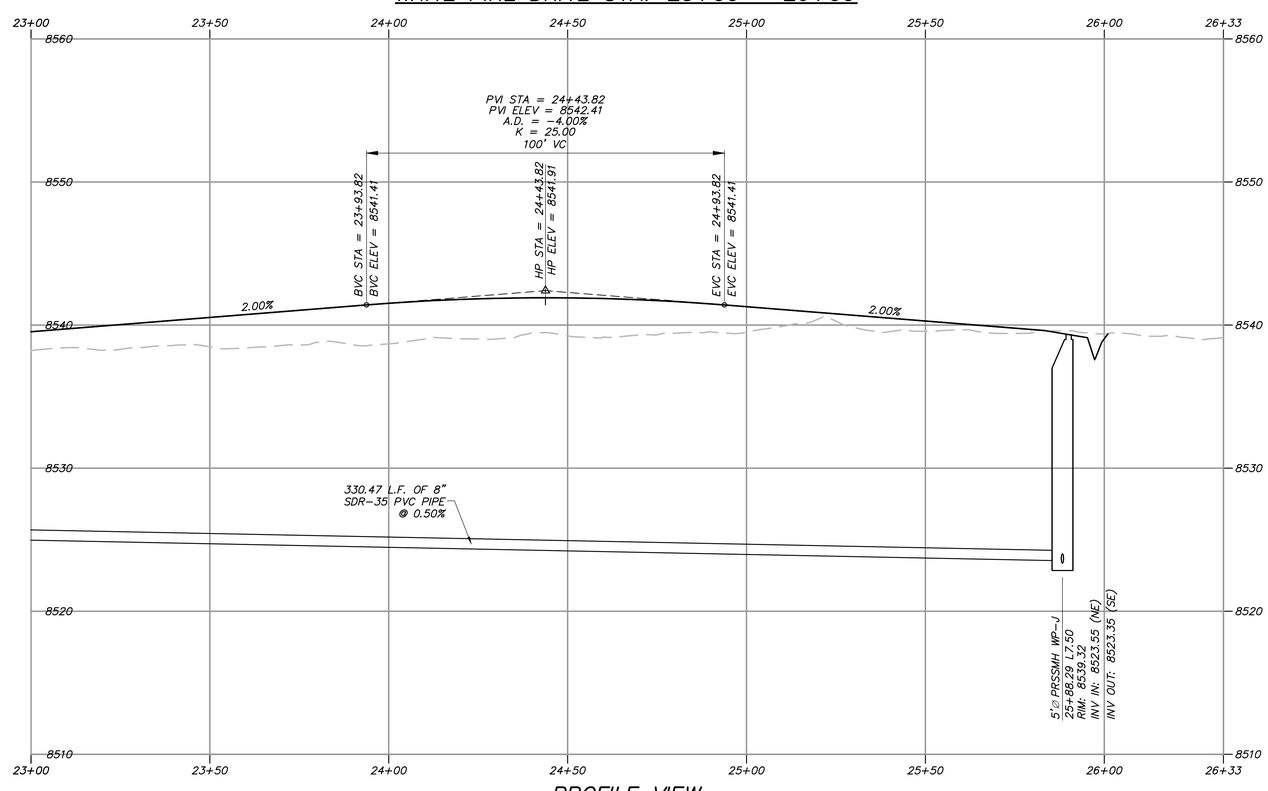
PATH: N:\SB0793\Cadd\18-200.22-Aether Estate Lots - Bobcat Ridge\PP\506 PLAN AND PROFILE.dwg



WHITE PINE DRIVE STA: 23+00 – 26+00



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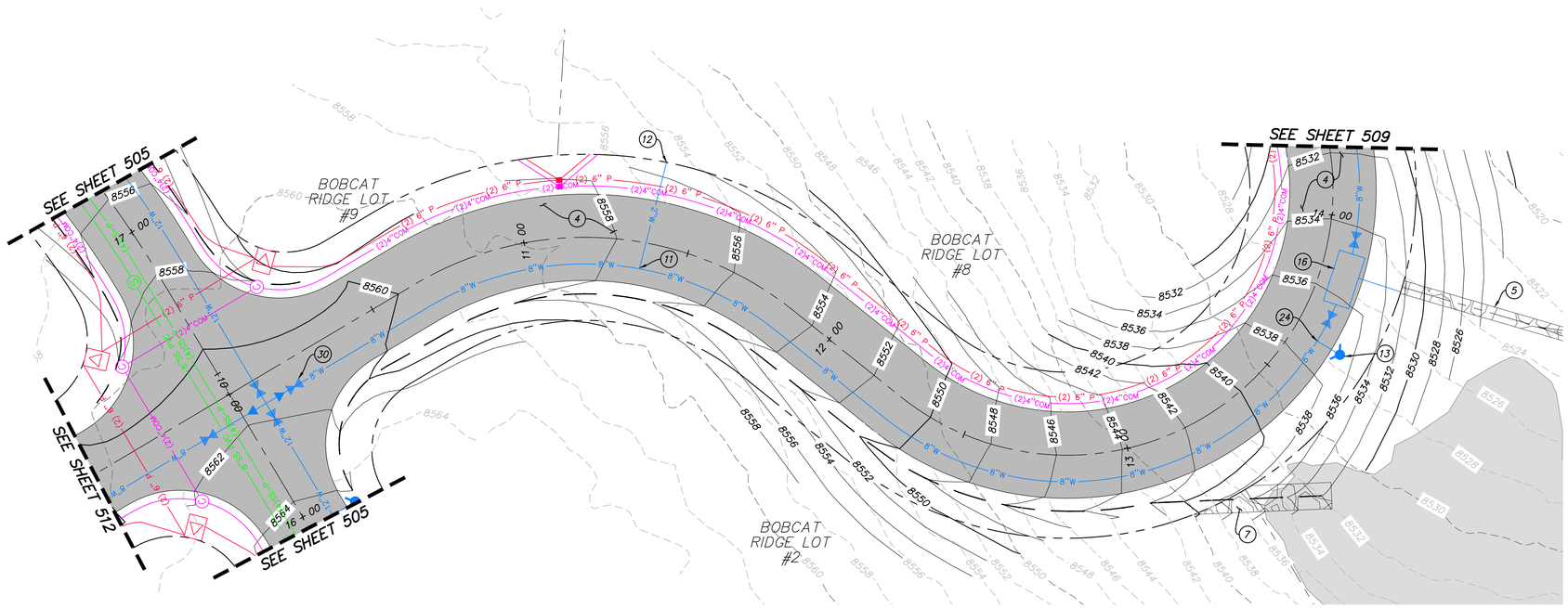
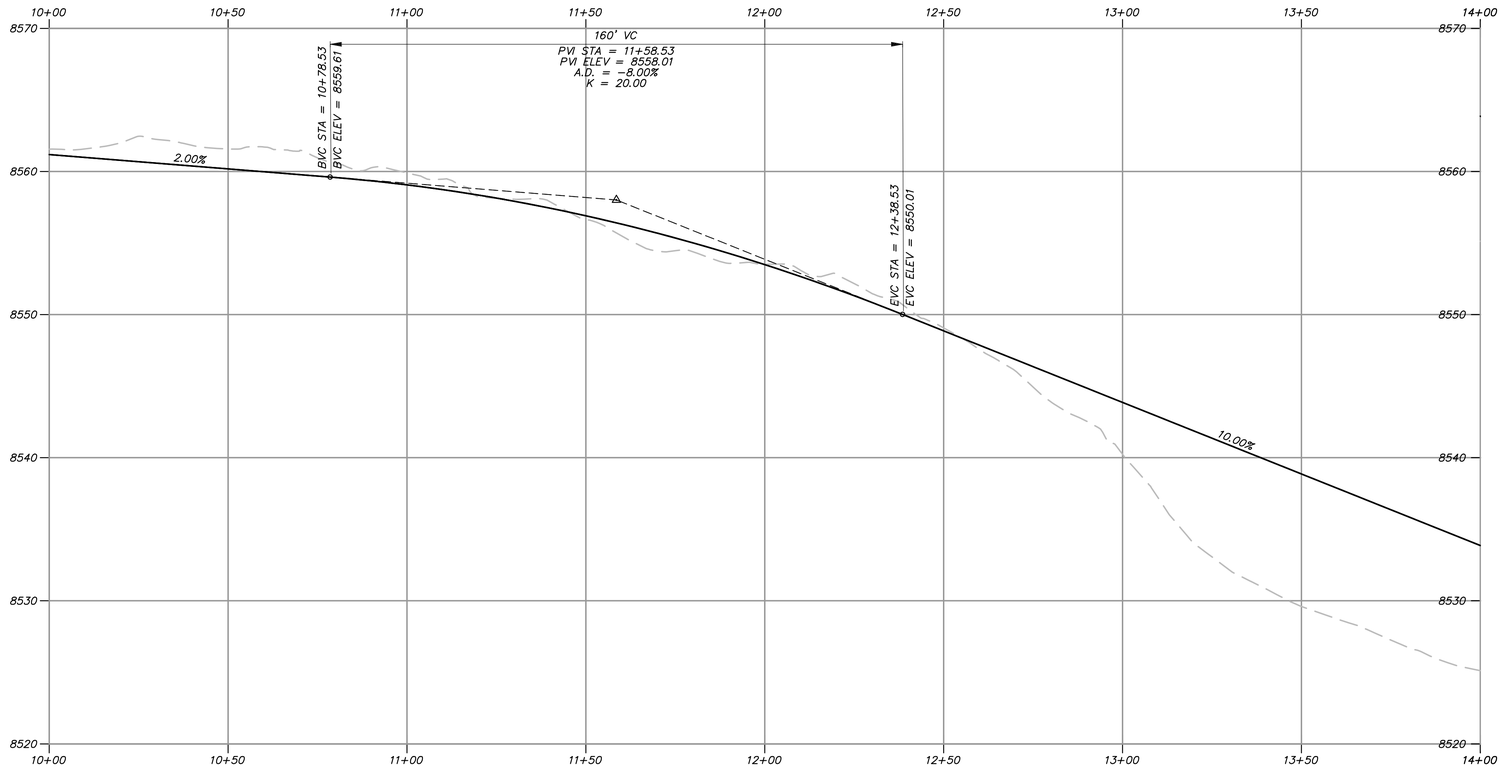


ASPEN DRIVE STA: 10+00 – 14+00



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14. 4"ø WASHOUT VALVE PER APWA PLAN NO. 571.
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TALISMAN
CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
ASPEN DRIVE STA: 10+00 - 14+00

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

SHEET NUMBER
508
24 OF 59

CALL 811 BEFORE YOU DIG
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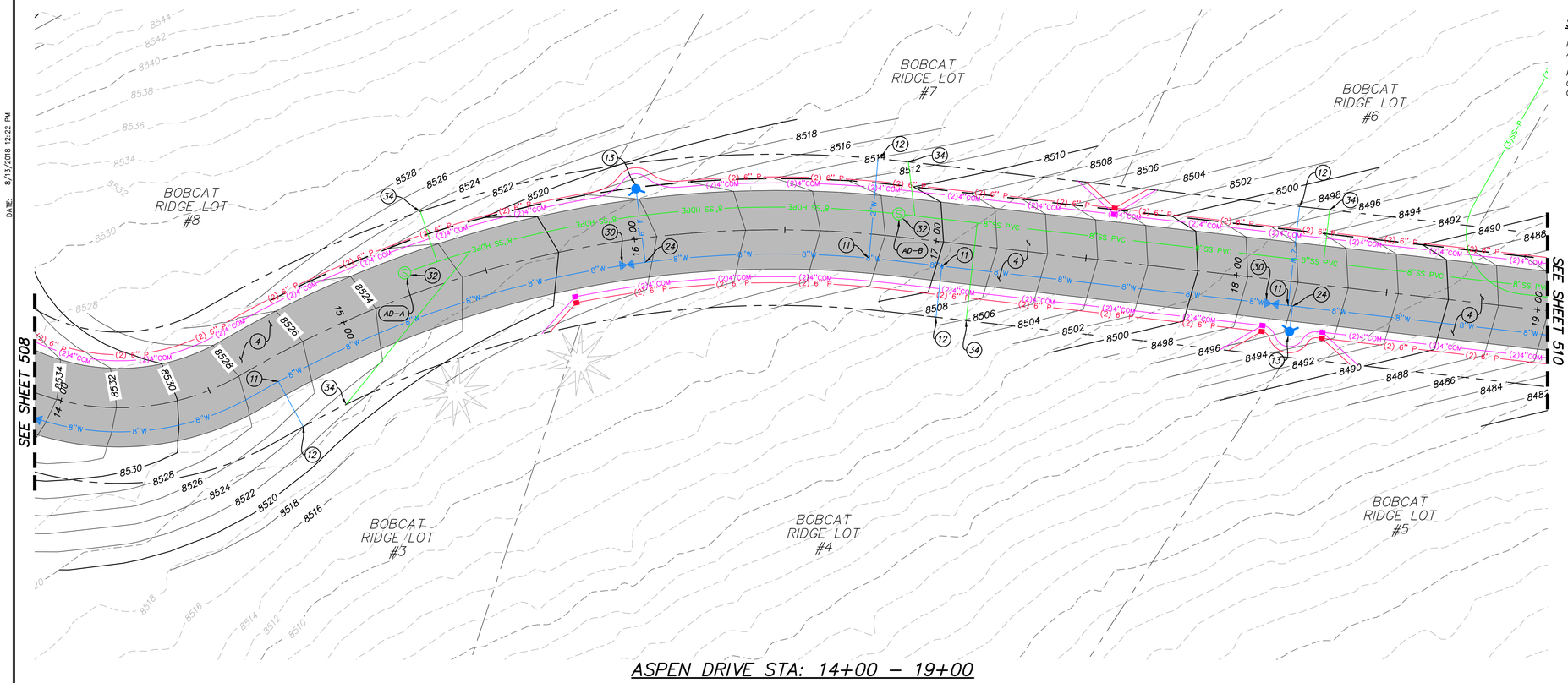
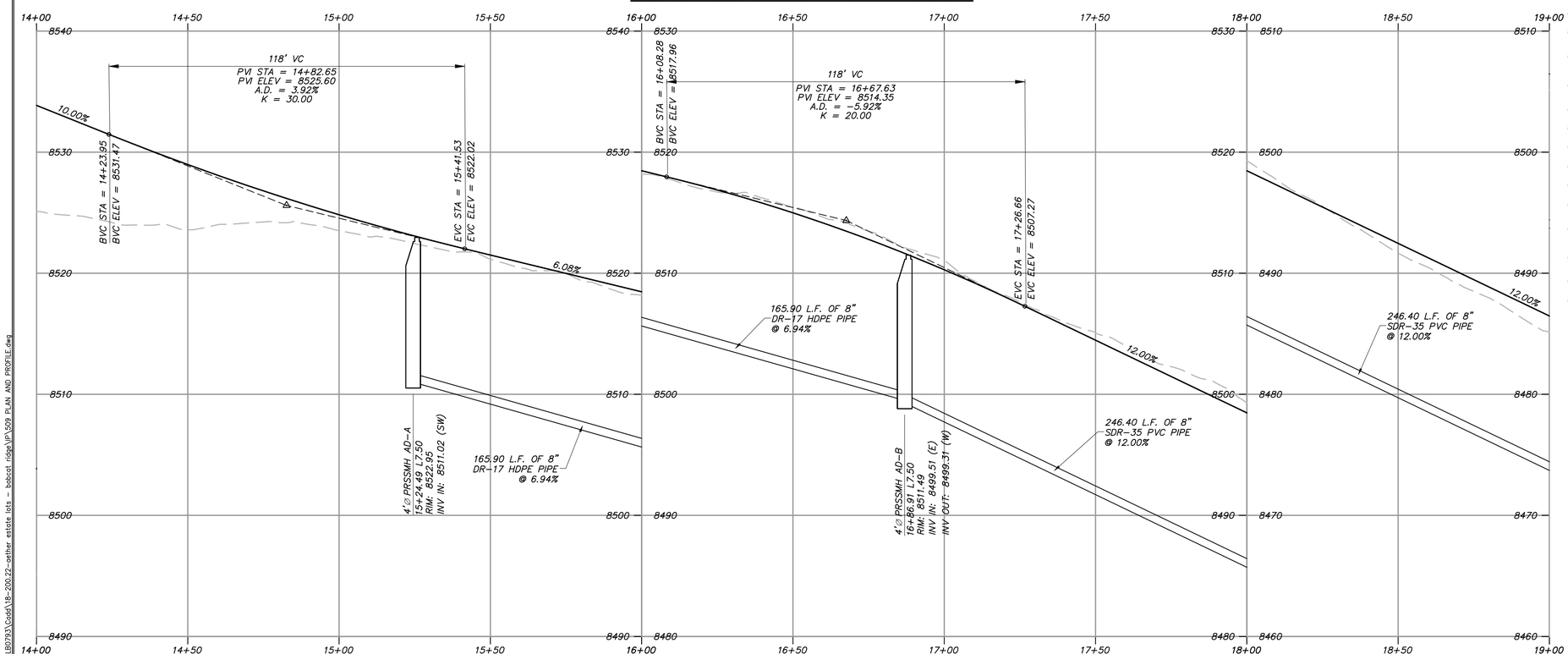
DATE: 8/13/2018 12:19 PM

PATH: n:\SLB0793\Cadd\18-200.22-aether estate lots - bobcat ridge\IP\508 PLAN AND PROFILE.dwg



ASPEN DRIVE STA: 14+00 – 19+00



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BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
ASPEN DRIVE STA: 14+00 - 19+00

TCC JOB NUMBER: 18.200.22

DATE SUBMITTED: 08.13.2018

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
08/13/18
STATE OF UTAH

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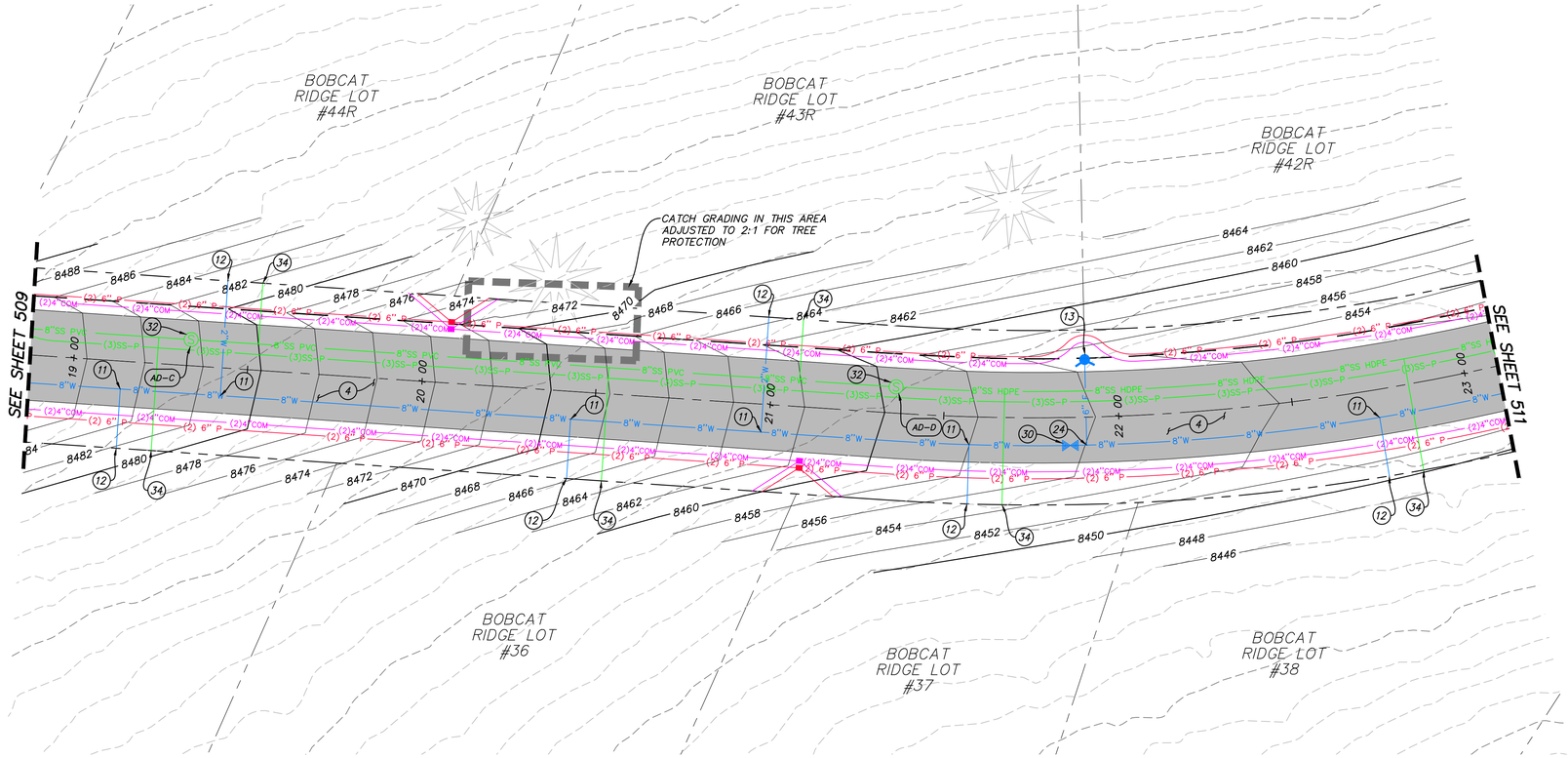
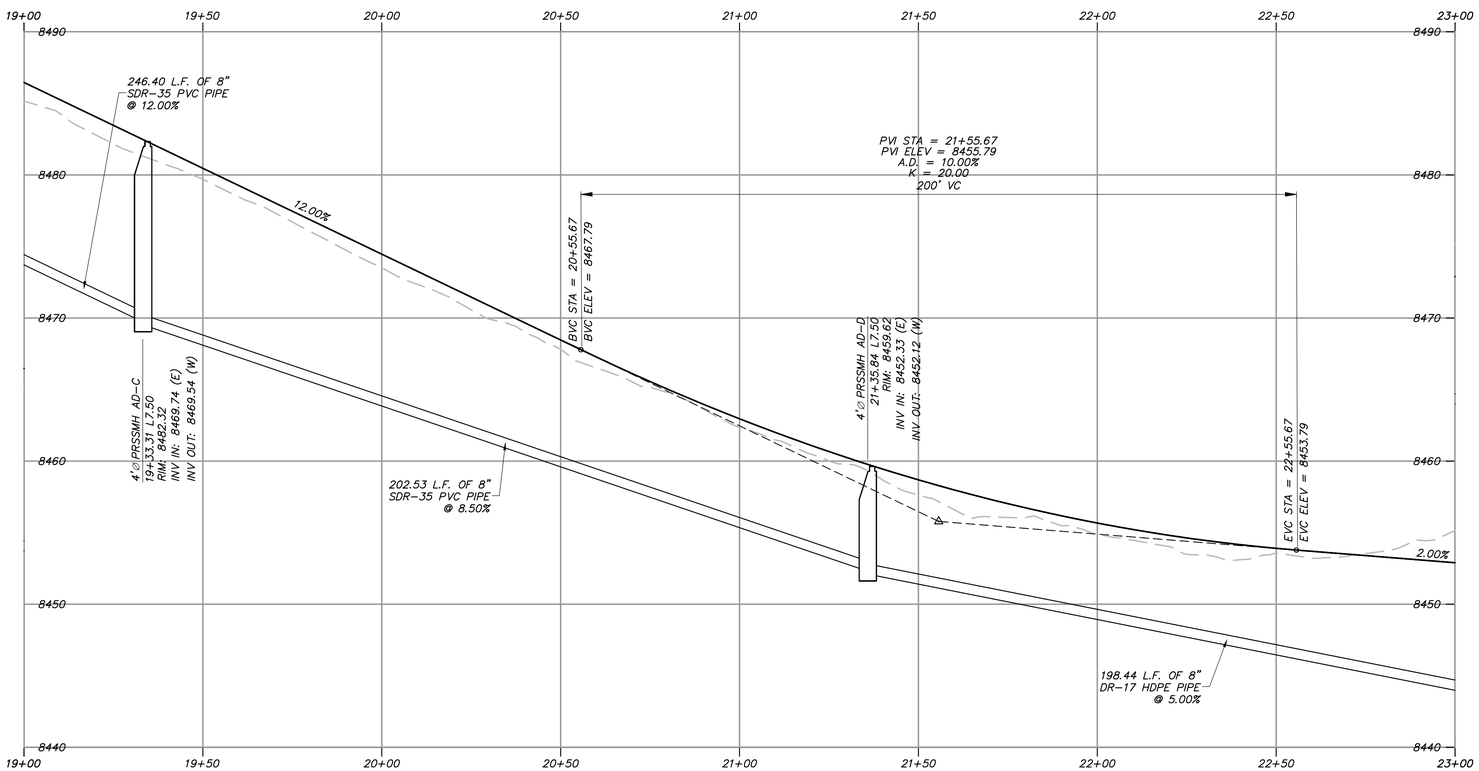
PATH: m:\SLB0793\Cadd\18-200.22-aether estate lots - bobcat ridge\PP\509 PLAN AND PROFILE.dwg



ASPEN DRIVE STA: 19+00 – 23+00



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TALISMAN
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SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
ASPEN DRIVE STA: 19+00 - 23+00

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

SHEET NUMBER
510
26 OF 59

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DATE: 8/13/2018 12:25 PM

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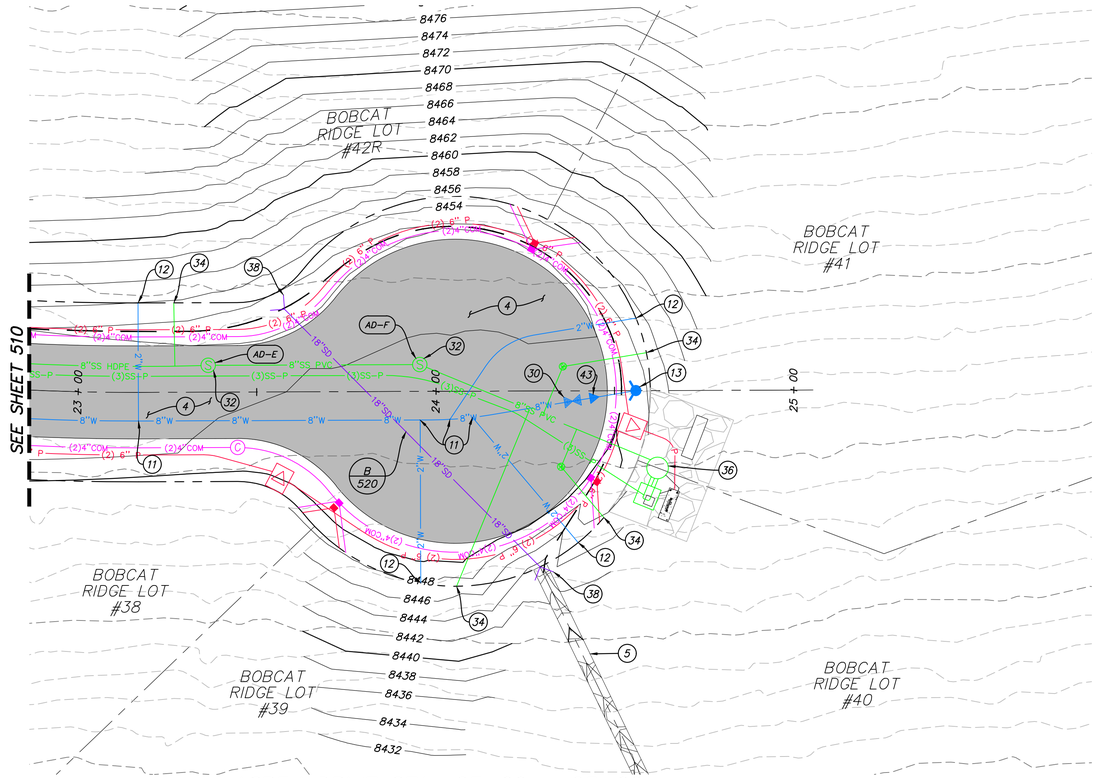
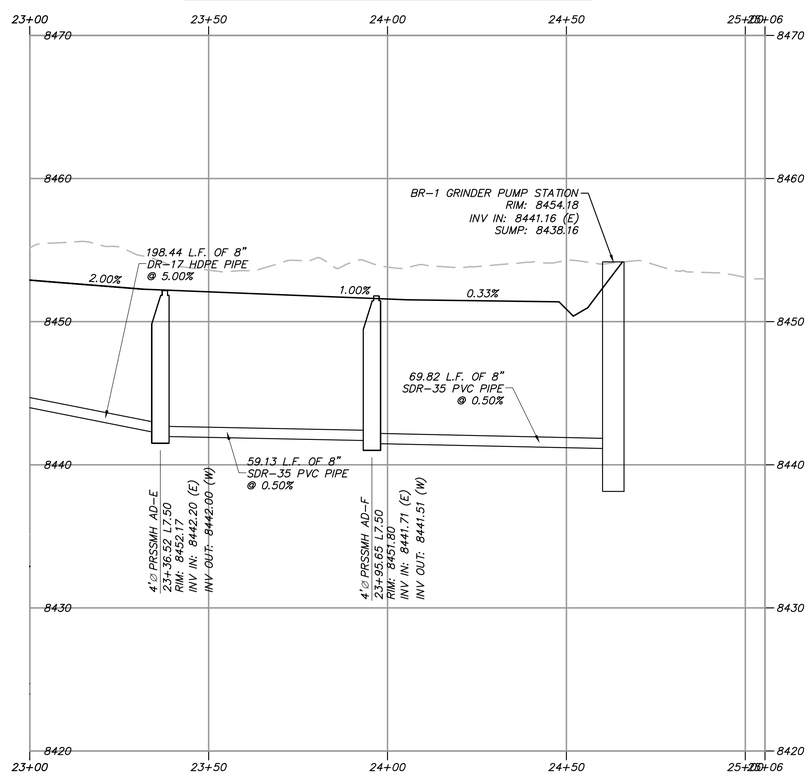


ASPEN DRIVE STA: 23+00 – 25+00



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DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
BRYAN W. CATHEY
8/13/18
STATE OF UTAH

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SHEET NUMBER
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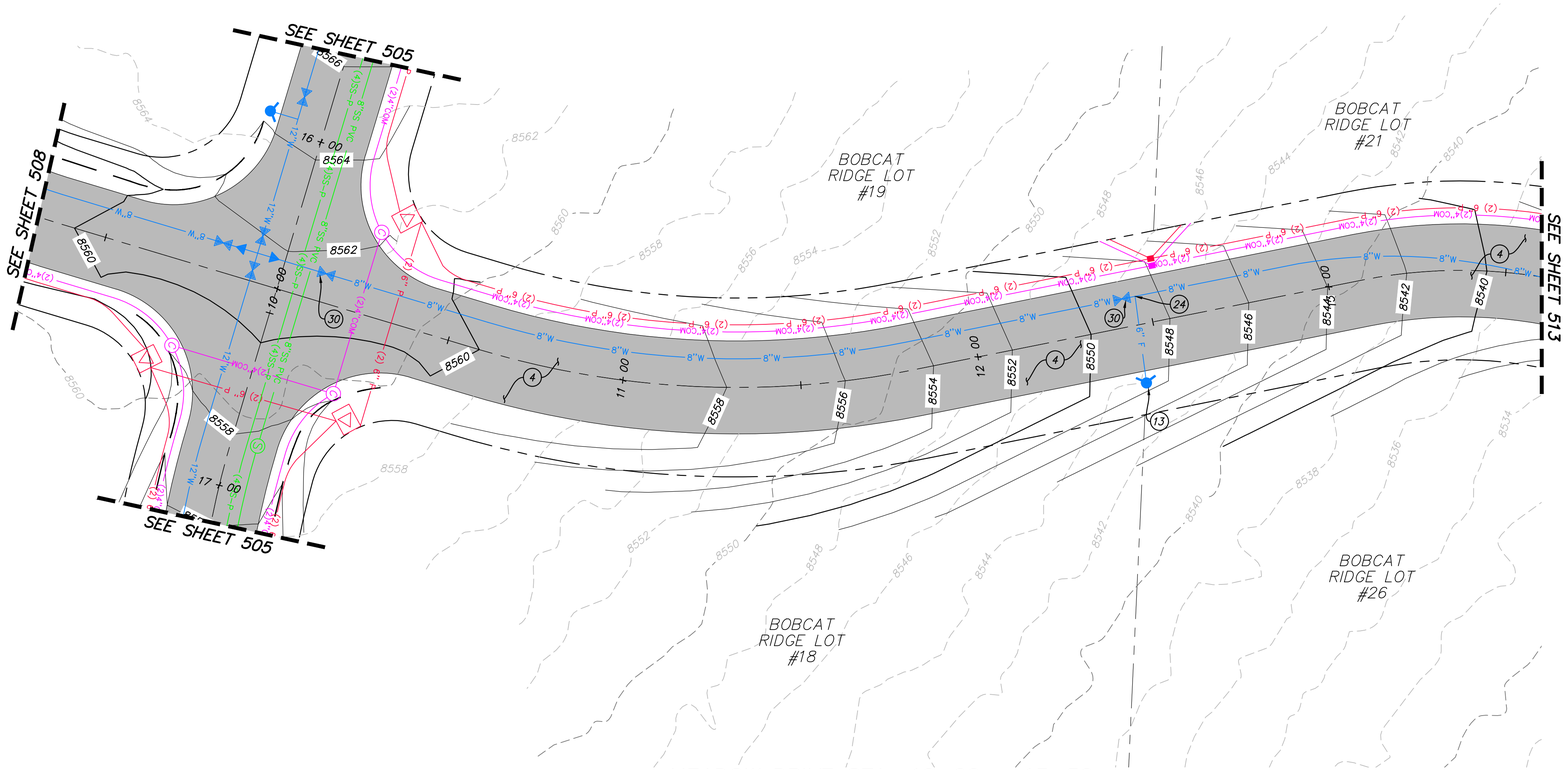
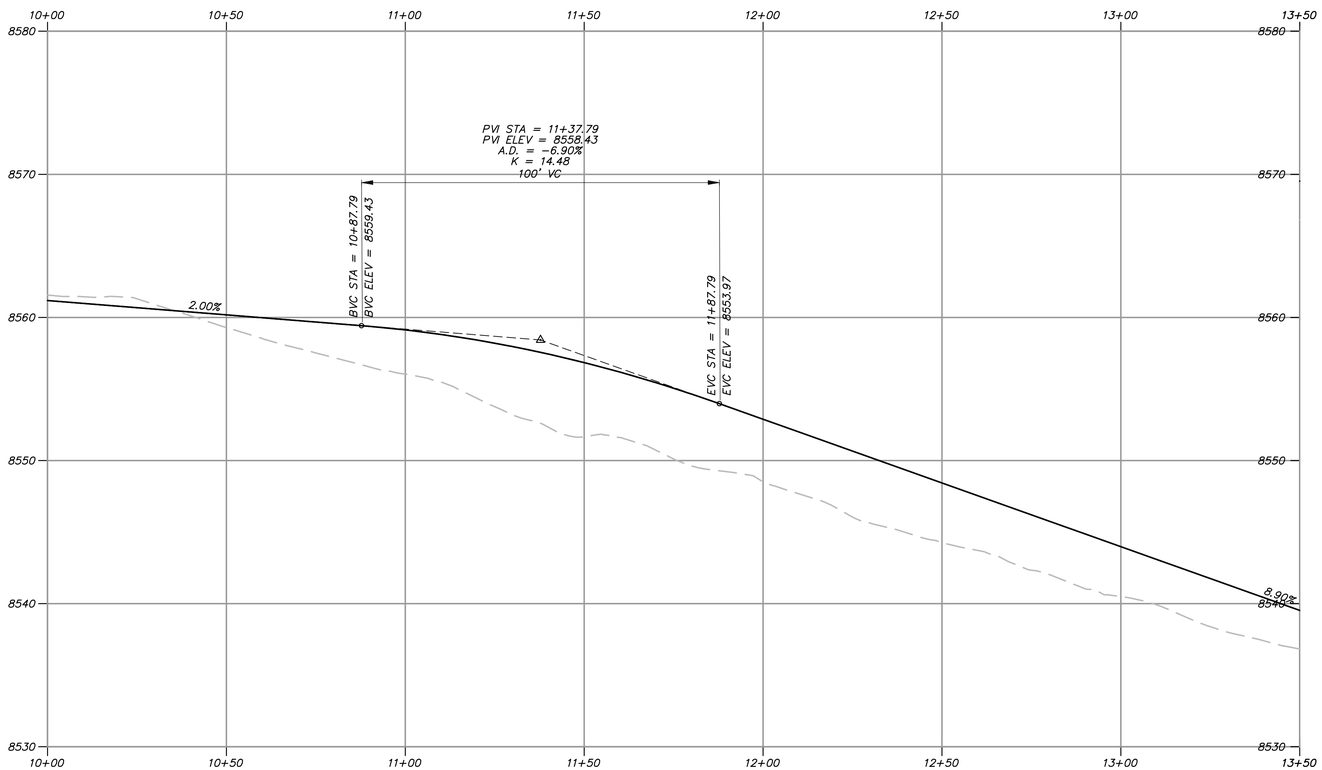
27 OF 59

DATE: 8/13/2018 12:28 PM
PATH: n:\SLB0793\Cadd\18-200.22-aether estate lots - bobcat ridge\PI\511 PLAN AND PROFILE.dwg



MEADOW DRIVE STA: 10+00 – 13+50



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32. 4'ø SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER APWA PLAN NO. 402.
33. 5'ø SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER APWA PLAN NO. 402.
34. 4"ø SANITARY SEWER LATERAL PER DETAIL B/SHEET 702.
35. INSTALL BR-2 GRINDER PUMP STATION PER DETAIL SHEET 706.
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TALISMAN
CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
MEADOW DRIVE STA: 10+00 - 13+50

TCC JOB NUMBER: 18.200.22
DATE SUBMITTED: 08.13.2018

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
08/13/18
STATE OF UTAH

SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

SHEET NUMBER
512
28 OF 59

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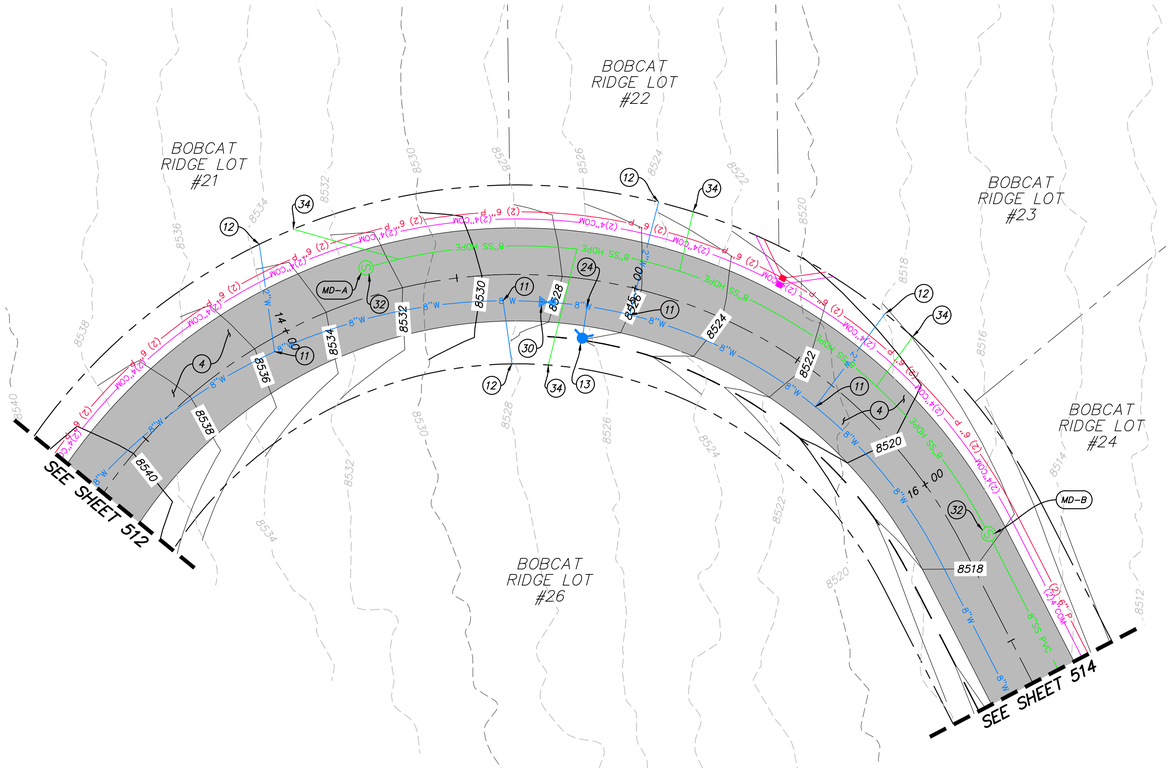
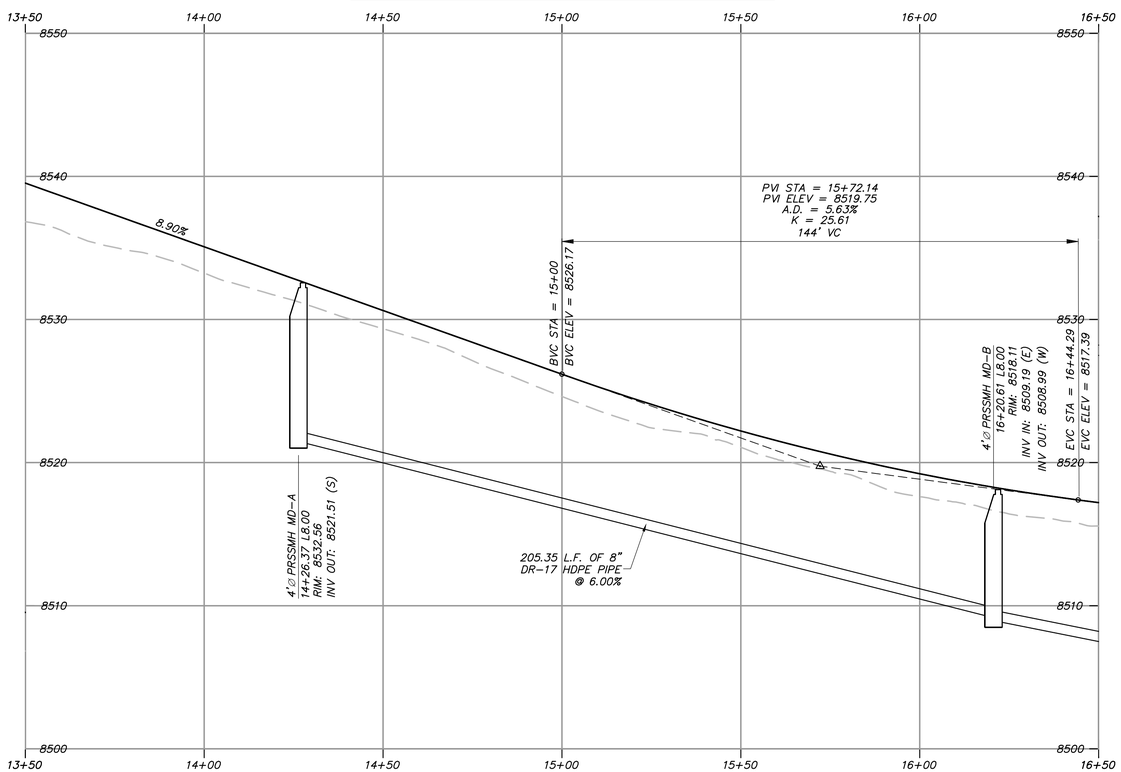
DATE: 8/13/2018 12:50 PM
PATH: n:\SLB0793\Cadd\18-200.22-gather estate lots - bobcat ridge\P\512 PLAN AND PROFILE.dwg



MEADOW DRIVE STA: 13+50 – 16+50



PROFILE VIEW

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8/13/18
STATE OF UTAH

SCALE
HORIZONTAL: 1" = 20'
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SHEET NUMBER
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29 OF 59

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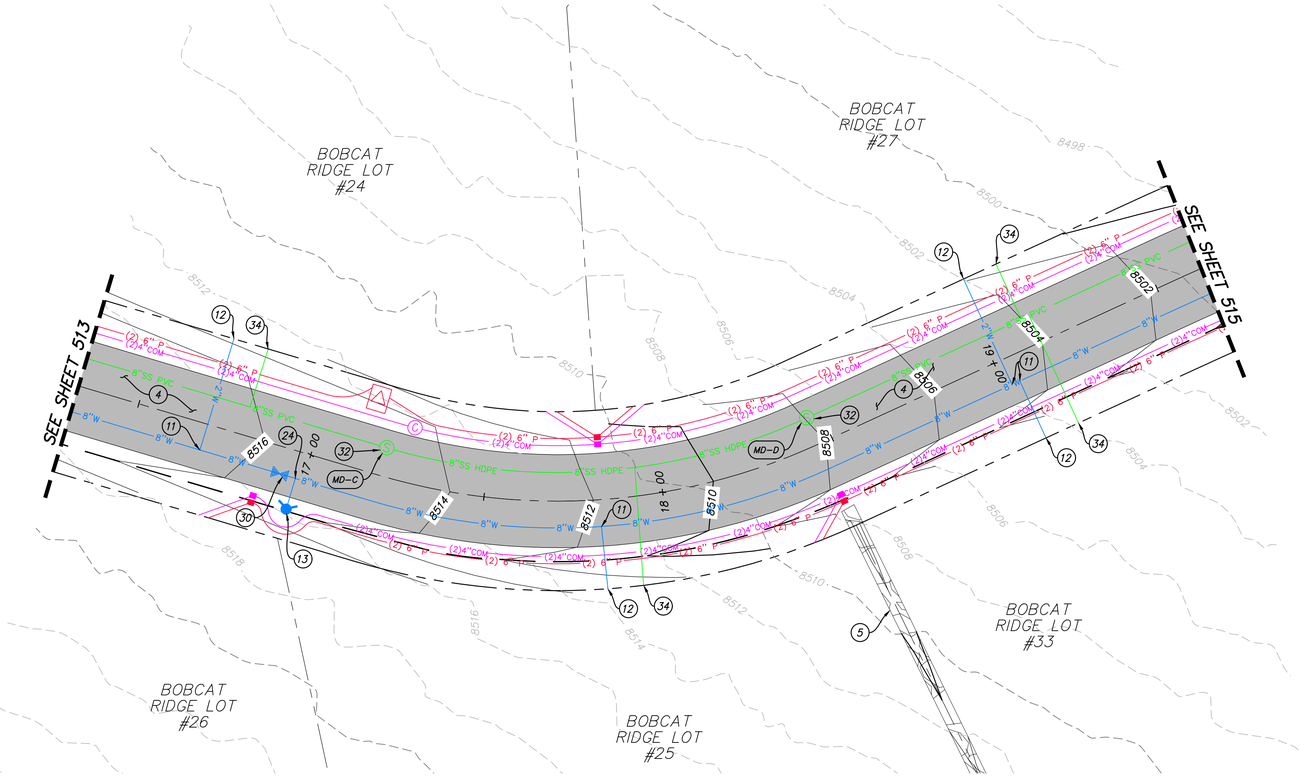
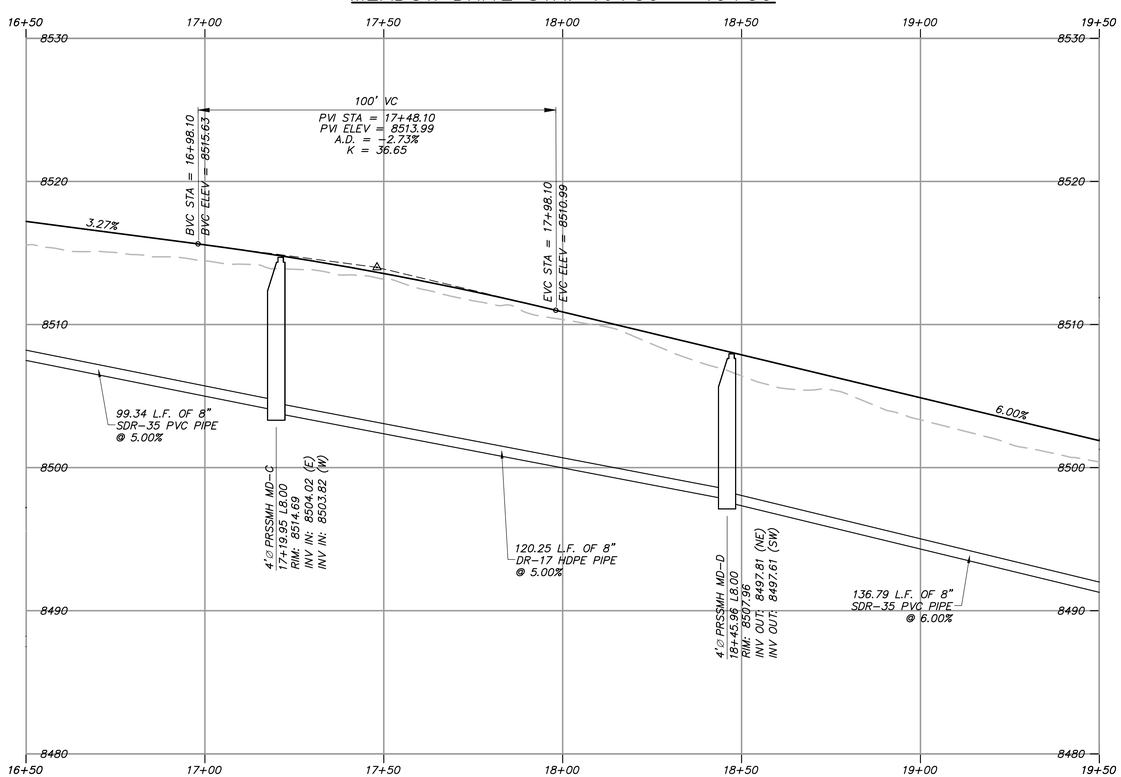


MEADOW DRIVE STA: 16+50 – 19+50



PROFILE VIEW

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SCALE
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TALISMAN
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SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
MEADOW DRIVE STA: 16+50 - 19+50

TCC JOB NUMBER: 18.200.22

DATE SUBMITTED: 08.13.2018

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

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514
30 OF 59

DATE: 8/13/2018 12:36 PM

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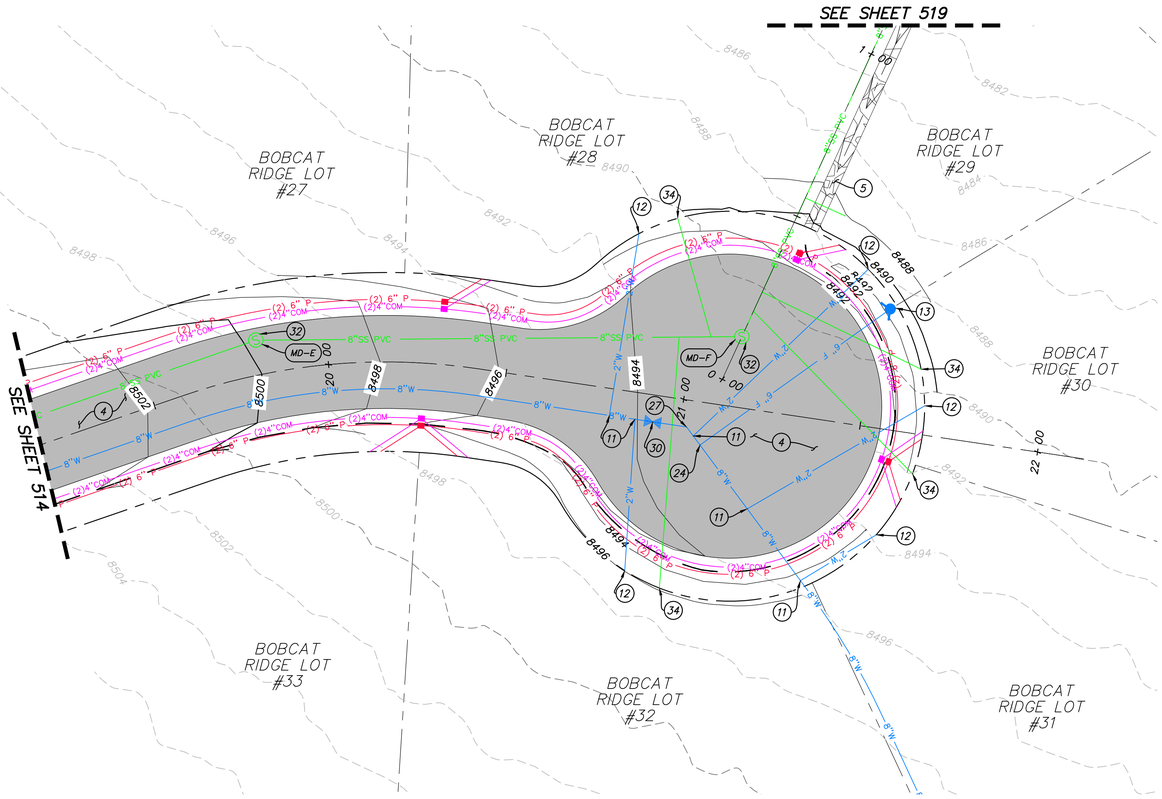
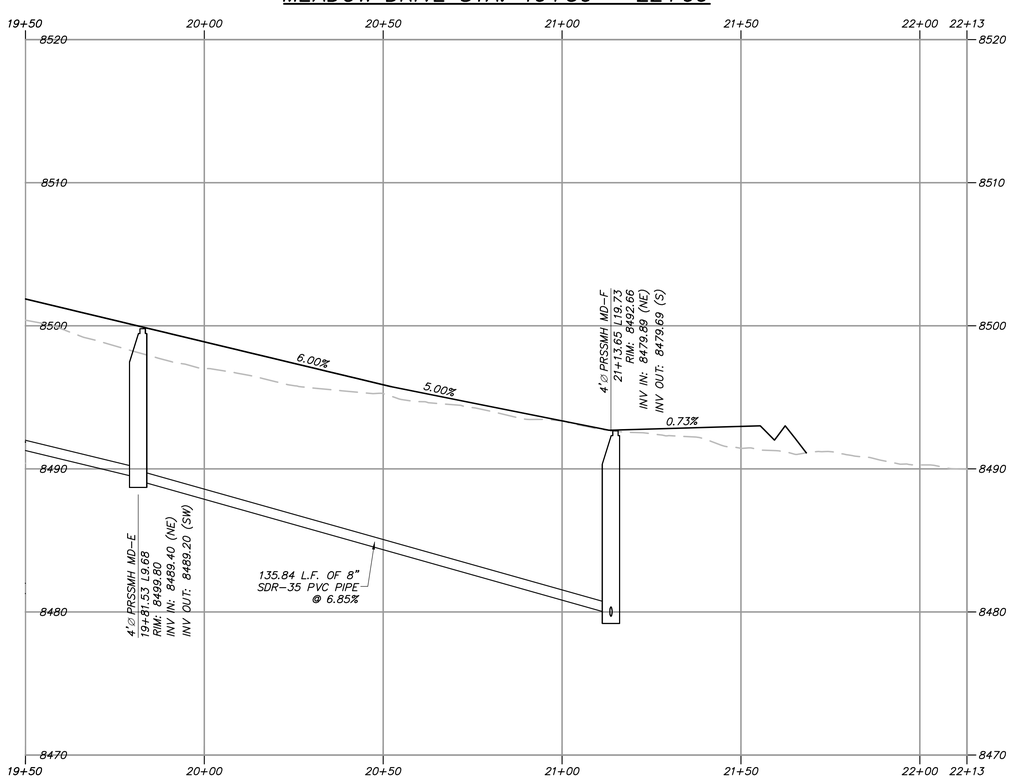


MEADOW DRIVE STA: 19+50 – 22+00



PROFILE VIEW

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NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
MEADOW DRIVE STA: 19+50 - 22+00

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN M. CATHEY
8/13/18
STATE OF UTAH

SCALE
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SHEET NUMBER
515
31 OF 59

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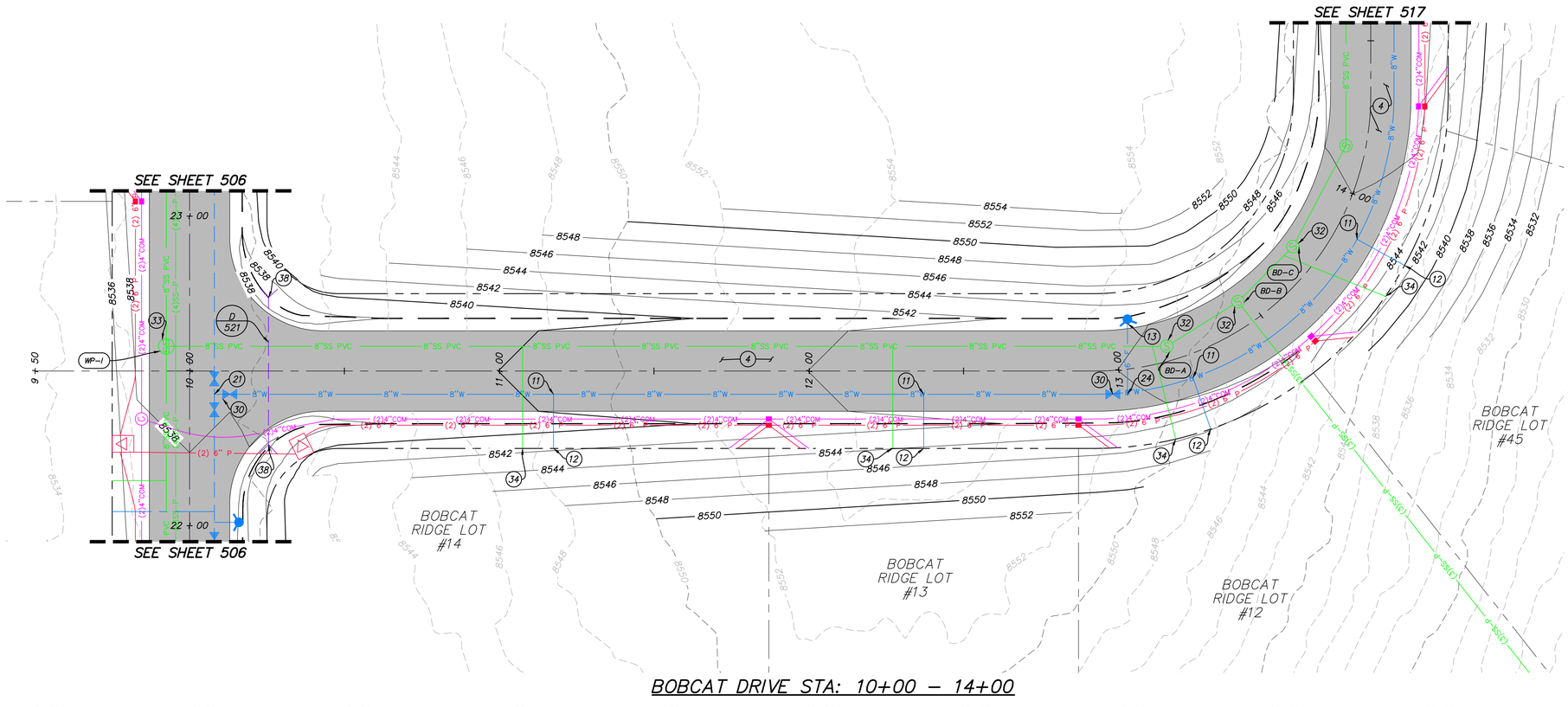
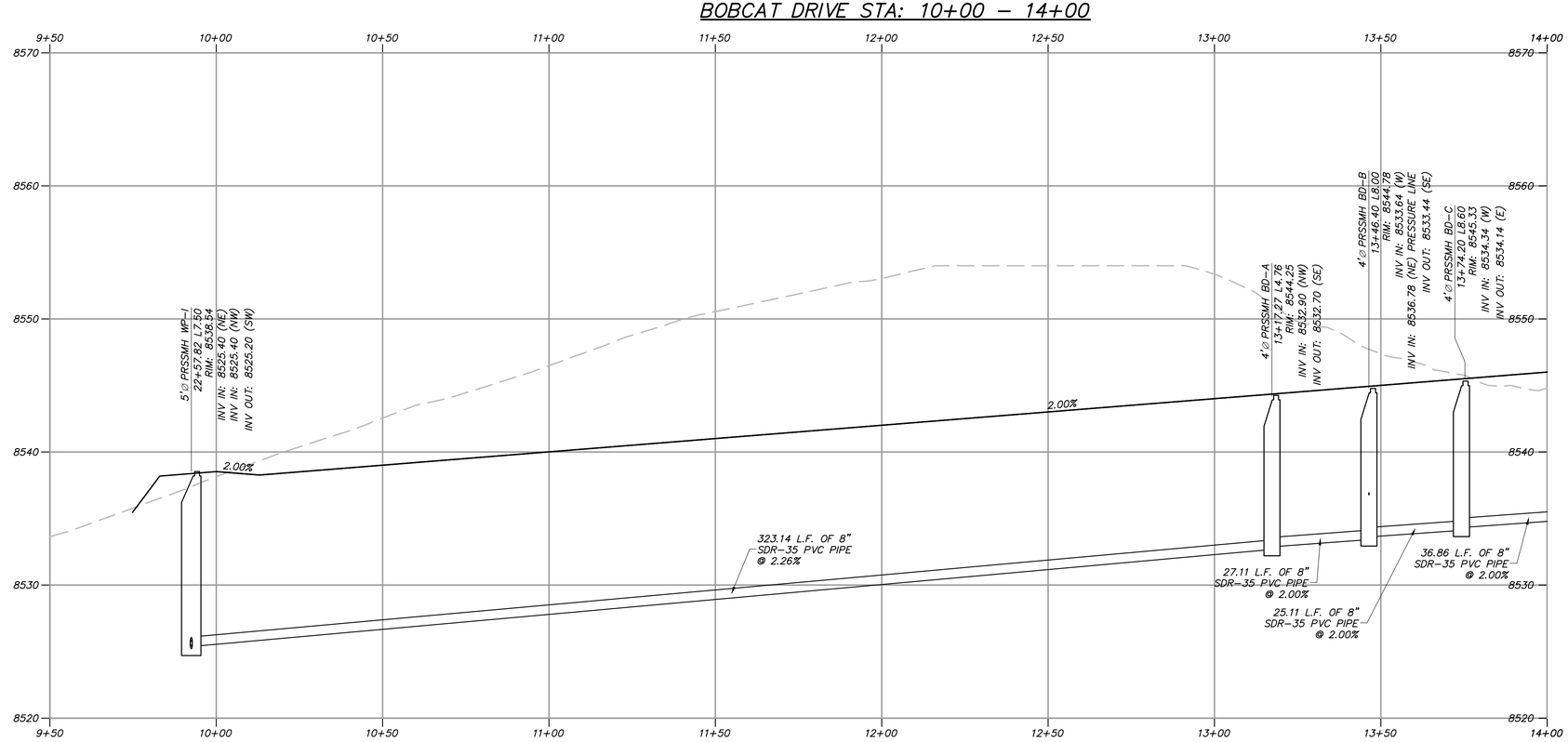


BOBCAT DRIVE STA: 10+00 – 14+00



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32 OF 59

DATE: 8/13/2018 12:42 PM

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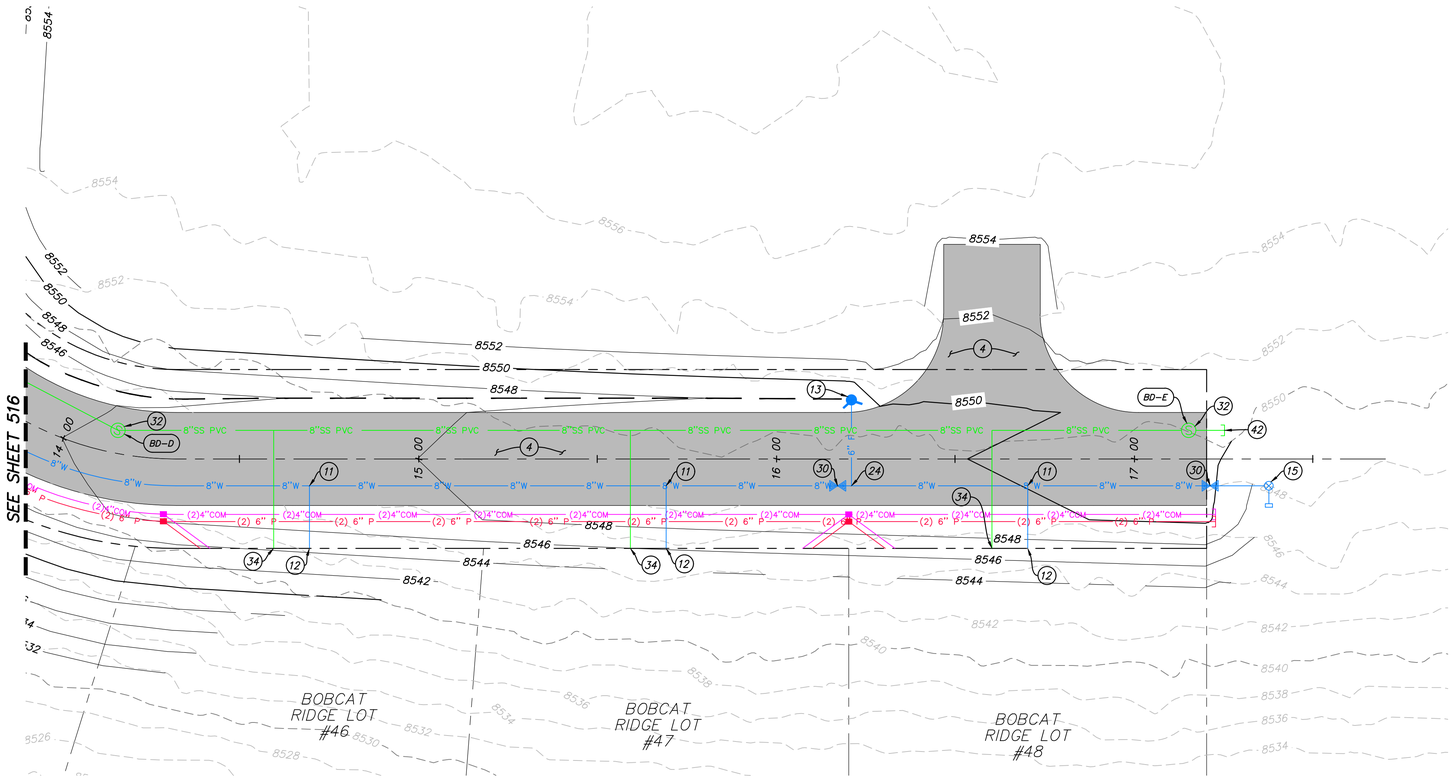
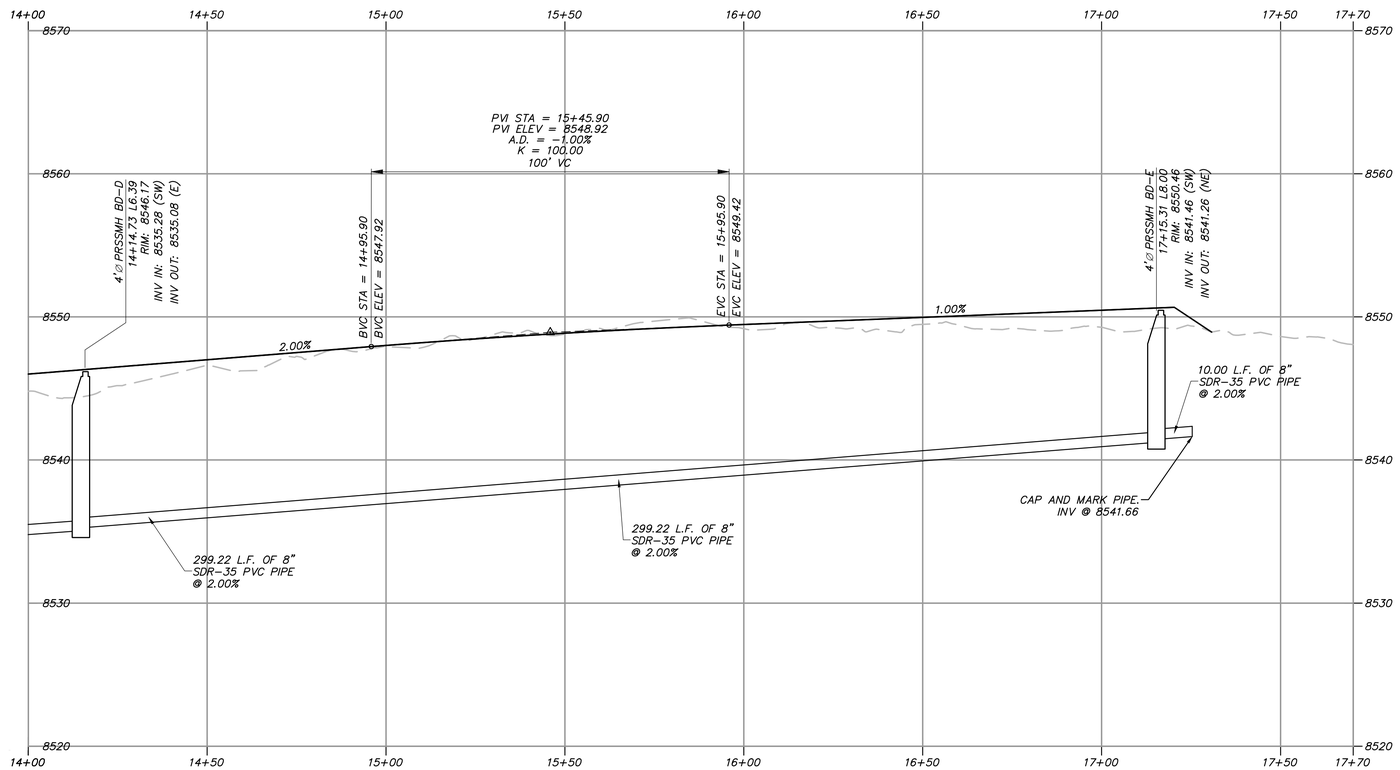


BOBCAT DRIVE STA: 14+00 – 17+50



PROFILE VIEW

SITE SCOPE OF WORK:

NOTE: DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

1. MATCH EXISTING.
2. TYPE 'F' CURB AND GUTTER PER APWA PLAN NO. 205.
3. TRANSITION CURB AND GUTTER TO ZERO INTERFACE WITH ASPHALT.
4. ASPHALT PAVEMENT PER PAVEMENT SECTION A/SHEET 003.
5. INSTALL DRAINAGE SWALE PER DETAIL A/SHEET 703.
6. REFER TO STRUCTURAL DRAWINGS FOR BRIDGE AND WING WALL DETAILS.
7. D50 = 9"ø RIP RAP.
8. ACCESS ROAD PER SECTION ON SHEET 004.
9. CONNECT TO EXISTING 15ø STORM DRAIN PIPE.
10. CONNECT TO EXISTING 18"ø WATER LINE.
11. 2"ø WATER SERVICE TAP PER APWA PLAN NO. 552.
12. 2"ø WATER SERVICE LATERAL PER DETAIL A/SHEET 702.
13. FIRE HYDRANT ASSEMBLY PER PMWSID PLAN NO. 511S.
14. 4"ø WASHOUT VALVE PER APWA PLAN NO. 571.
15. AIR RELEASE ASSEMBLY PER APWA PLAN NO. 575.
16. INSTALL PRESSURE RELEASE VALVE (PRV) AND VAULT PER DETAIL SHEET 708.
17. 18"x12" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
18. 12"x8" REDUCER WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
19. 18"x18"x18" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
20. 18"x6"x18" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
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22. 12"x6"x12" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
23. 8"x8"x8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
24. 8"x6"x8" TEE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
25. 12"ø CROSS WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561 AND 562.
26. 18"ø 45° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
27. 8"ø 45° BEND WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
28. 18"ø BUTTERFLY VALVE WITH THRUST BLOCKING PER APWA PLAN NO. 561 AND 562.
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31. CONNECT PRESSURE SEWER LINE TO EXISTING SANITARY SEWER MANHOLE.
32. 4'ø SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER APWA PLAN NO. 402.
33. 5'ø SANITARY SEWER MANHOLE PER APWA PLAN NO. 411 WITH FRAME AND COVER PER APWA PLAN NO. 402.
34. 4"ø SANITARY SEWER LATERAL PER DETAIL B/SHEET 702.
35. INSTALL BR-2 GRINDER PUMP STATION PER DETAIL SHEET 706.
36. INSTALL BR-1 GRINDER PUMP STATION PER DETAIL SHEET 707.
37. 2'x4' CATCH BASIN PER APWA PLAN NO. 315.
38. FLARED END SECTION PER APWA PLAN NO. 323.
39. 3'x3' PRECAST BOX WITH GRATED LID PER APWA PLAN NO. 332.
40. 4'ø PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 WITH SOLID LID PER APWA PLAN NO. 302.
41. 5'ø PRECAST STORM DRAIN MANHOLE PER APWA PLAN NO. 341 WITH SOLID LID PER APWA PLAN NO. 302.
42. CAP AND MARK UTILITY LINE FOR FUTURE CONNECTION.
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TALISMAN CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
BOBCAT DRIVE STA: 14+00 - 17+50

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

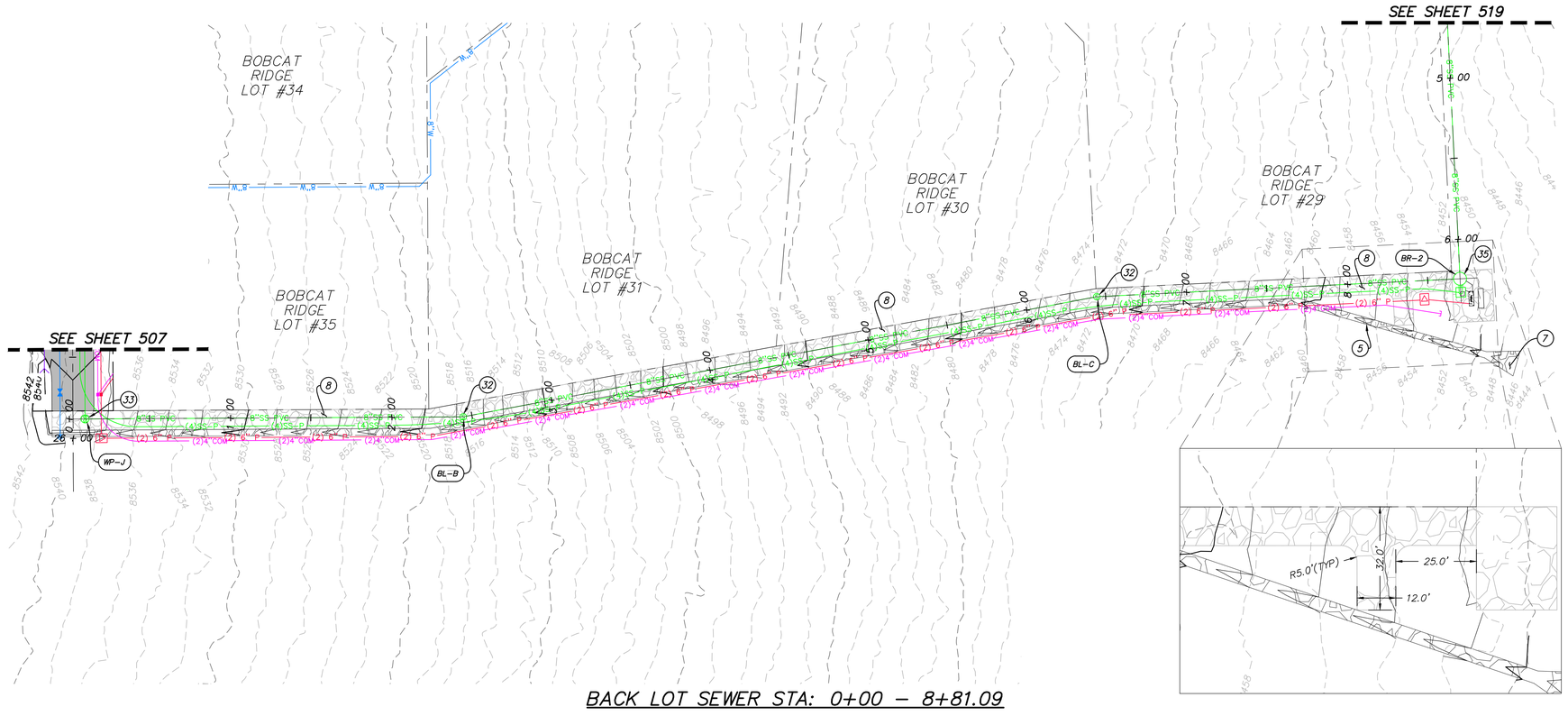
SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

CALL 811 BEFORE YOU DIG
SAFE DIGGING PAYING

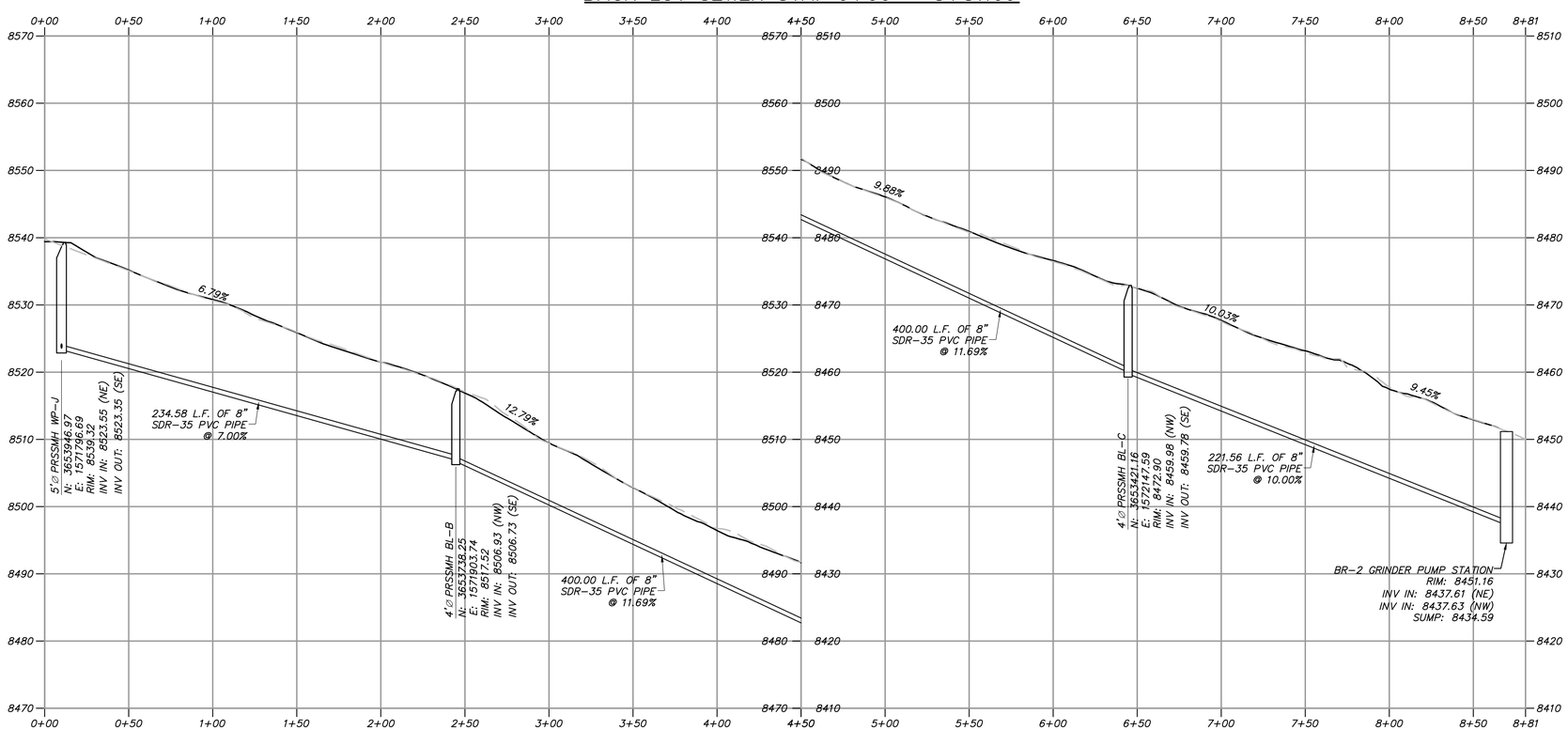
SHEET NUMBER
517
33 OF 59

DATE: 8/13/2018 12:45 PM

PATH: n:\SLB0793\Cadd\18-200.22-gether estate lots - bobcat ridge\P\517 PLAN AND PROFILE.dwg



BACK LOT SEWER STA: 0+00 – 8+81.09



PROFILE VIEW

SCALE
VERTICAL: 1" = 10'
0 2.5' 5' 10' 15'

SCALE
HORIZONTAL: 1" = 40'
0 10' 20' 40' 60'

SITE SCOPE OF WORK:

NOTE: DRY UTILITY LAYOUT IS PRELIMINARY, PENDING COORDINATION WITH UTILITY AGENCIES.

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TALISMAN
CIVIL CONSULTANTS
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SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
BACK LOT SEWER STA: 0+00 - 8+81.09

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN M. CATHEY
8/13/18
STATE OF UTAH

SCALE
HORIZONTAL: 1" = 40'
0 10' 20' 40' 60'

SHEET NUMBER
518
34 OF 59

CALL 811 BEFORE YOU DIG
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DATE: 8/13/2018 3:07 PM

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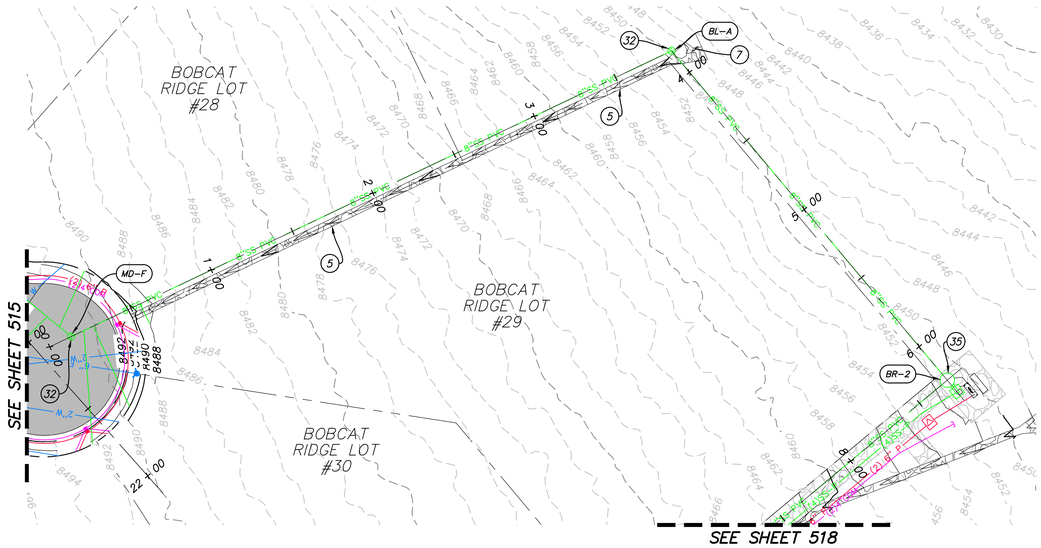
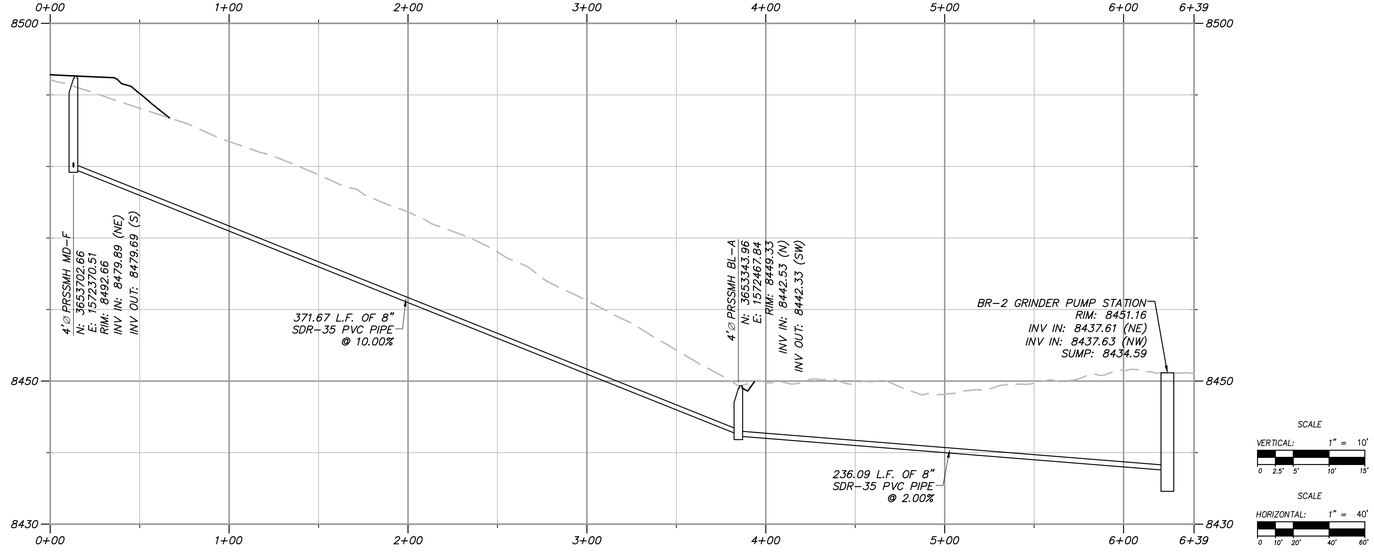


BACK LOT SEWER STA: 0+00 – 6+39.37



PROFILE VIEW

SITE SCOPE OF WORK:

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TALISMAN
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SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
BACK LOT SEWER STA: 0+00 - 6+39.37

TCC JOB NUMBER: 18.200.22

DATE SUBMITTED: 08.13.2018

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

SCALE
HORIZONTAL: 1" = 40'
0 10' 20' 40' 60'

SHEET NUMBER
519
35 OF 59

CALL 811 BEFORE YOU DIG
SAFE DIGGING PAYING

DATE: 8/13/2018 12:51 PM

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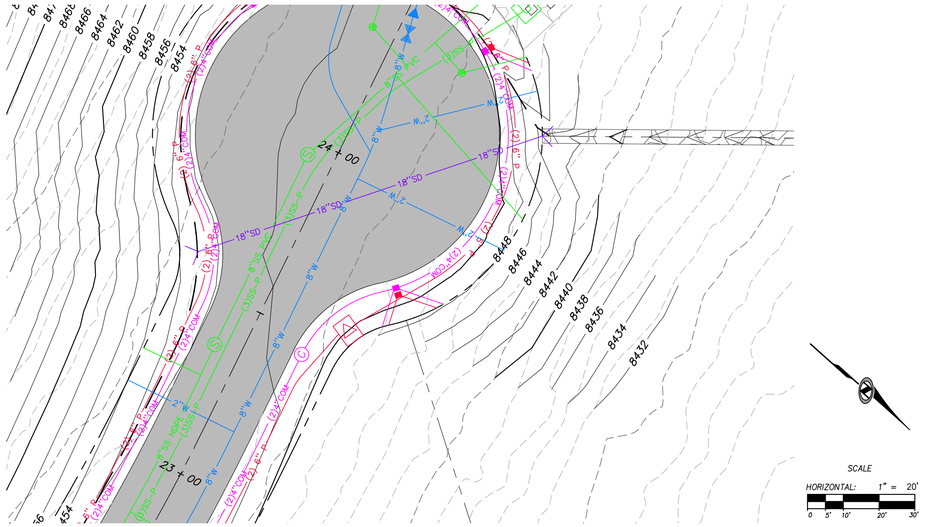
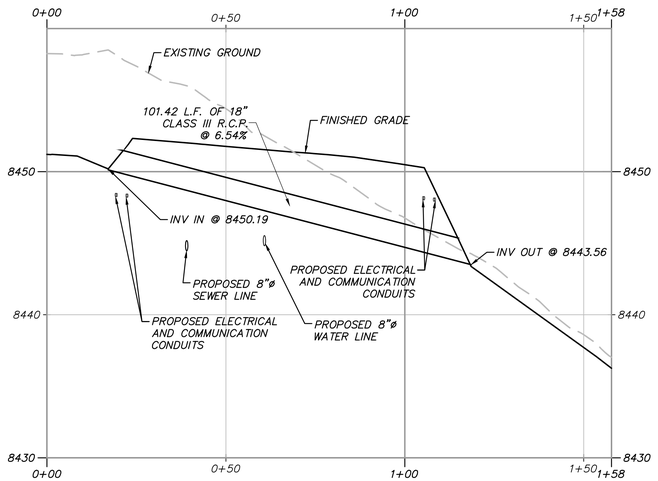


PLAN VIEW



SCALE
VERTICAL: 1" = 5'
0 1.25' 2.5' 5' 7.5'

SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

PROFILE VIEW

B
-
STORM DRAIN PROFILE B-B

TALISMAN
CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.

PLAN AND PROFILE
CROSSING STORM DRAIN PROFILES

TCC JOB NUMBER: 18.200.22

DATE SUBMITTED: 08.13.2018

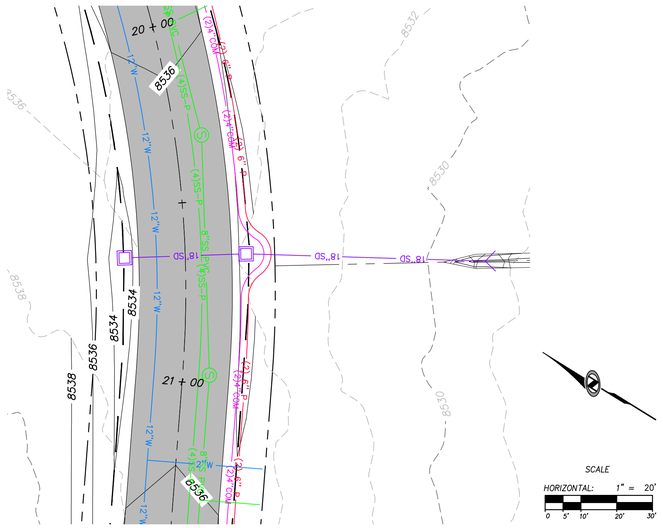
REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
8/13/18
STATE OF UTAH

CALL 811 BEFORE YOU DIG
811
SAFE DIGGING PARTNER

SHEET NUMBER
520
36 OF 59

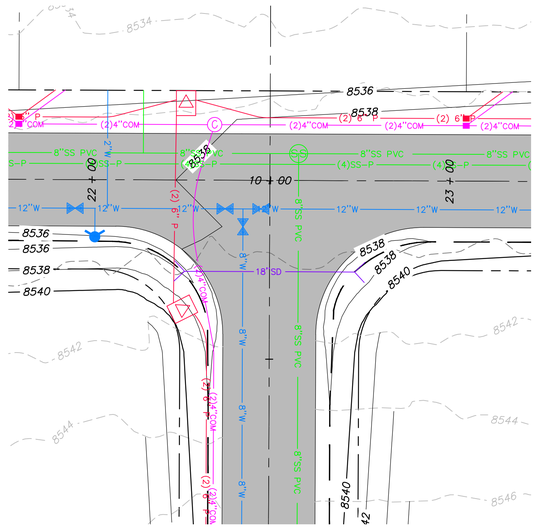
DATE: 8/13/2018 12:54 PM

PATH: n:\SLB0793\Cadd\18-200.22-aether estate lots - bobcat ridge\IP\520 PLAN AND PROFILE.dwg



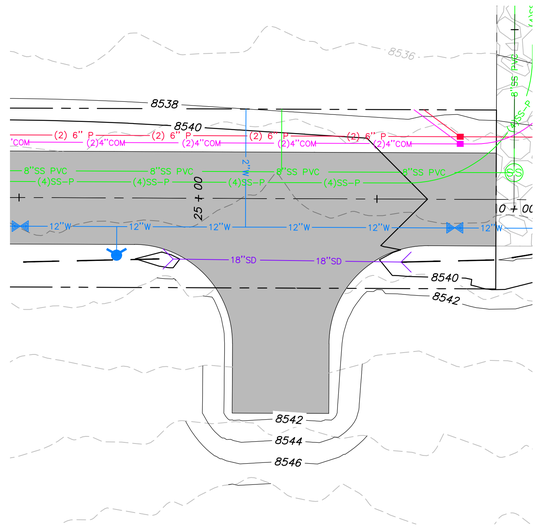
PLAN VIEW

SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'



PLAN VIEW

SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'



PLAN VIEW

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HORIZONTAL: 1" = 20'
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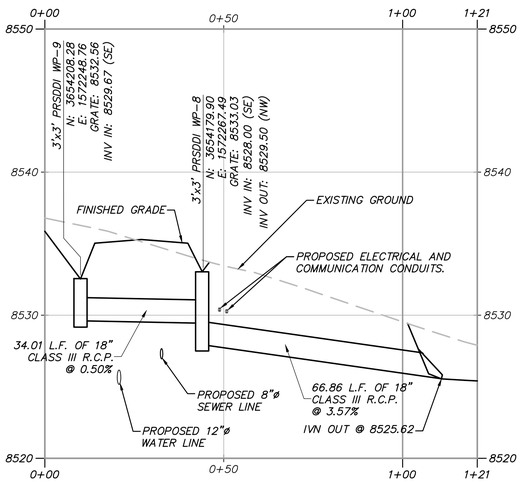

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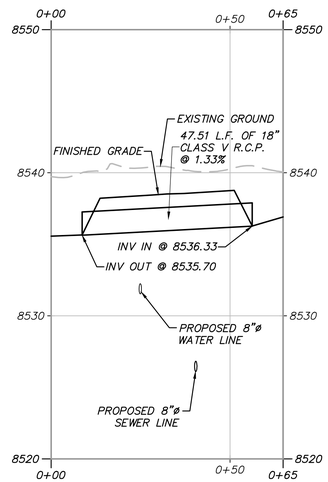
PROFILE VIEW

C STORM DRAIN PROFILE C-C



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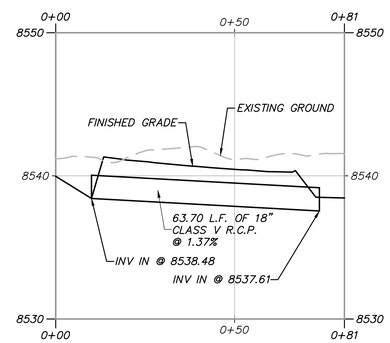
PROFILE VIEW

D STORM DRAIN PROFILE D-D



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PROFILE VIEW

E STORM DRAIN PROFILE E-E

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BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
CROSSING STORM DRAIN PROFILES

TCC JOB NUMBER: 18.200.22
DATE SUBMITTED: 08.13.2018

REGISTERED PROFESSIONAL ENGINEER
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RYAN W. CATHEY
8/13/18
STATE OF UTAH

CALL 811 BEFORE YOU DIG
SAFE DIGGING PARTNER

SHEET NUMBER
521
37 OF 59

DATE: 8/13/2018 12:57 PM

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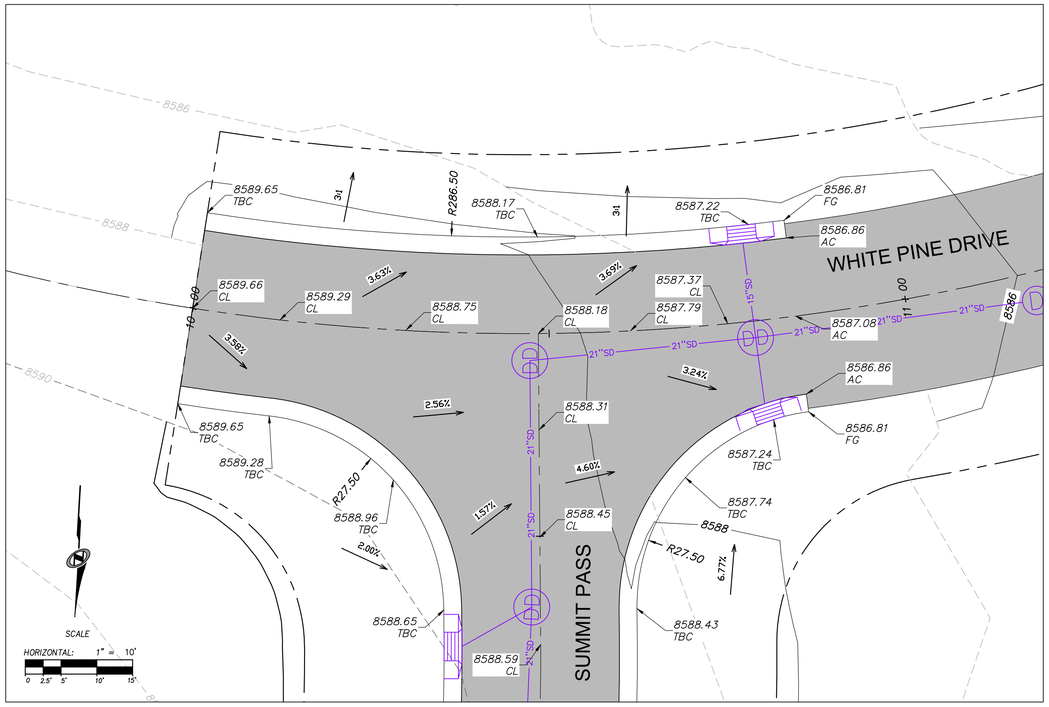
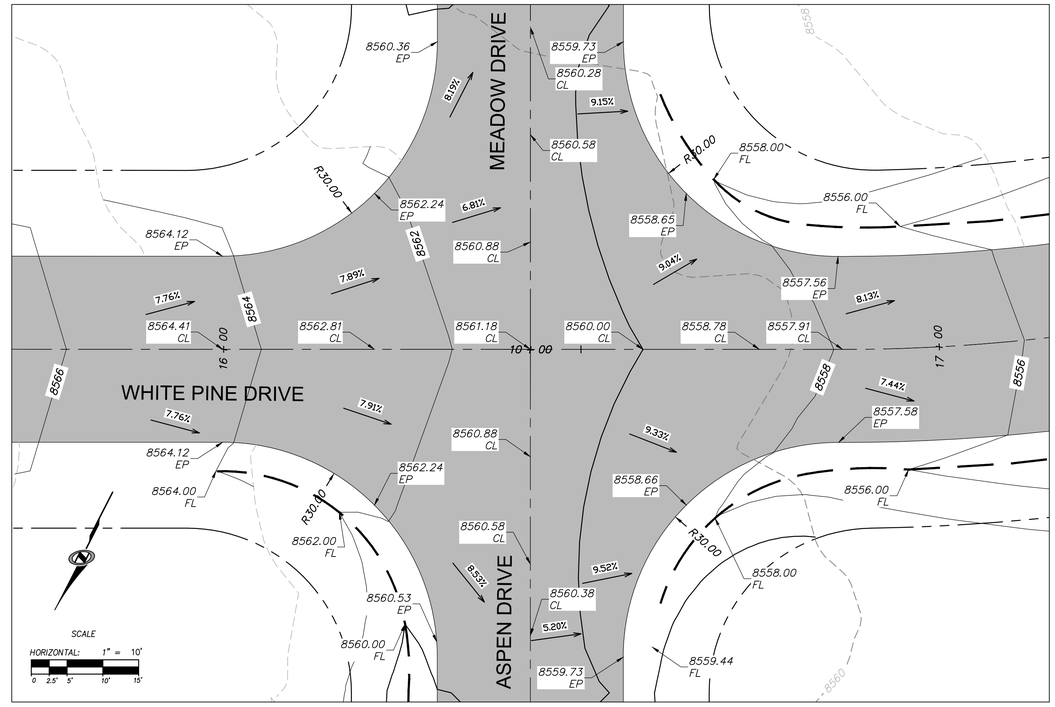
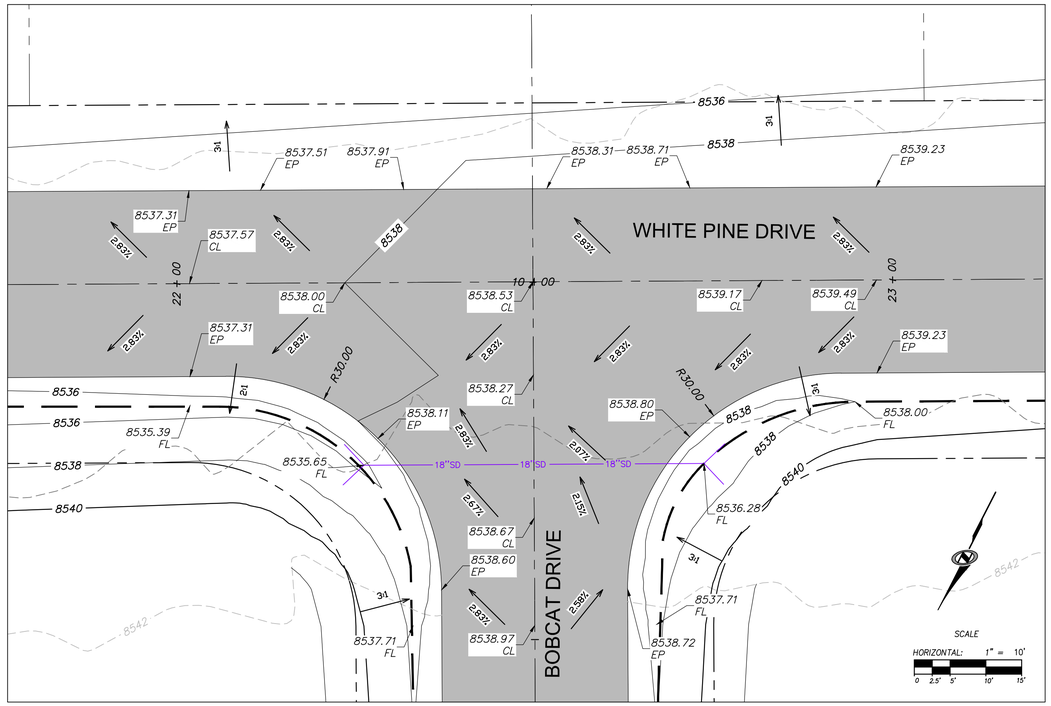


A — SUMMIT PASS - WHITE PINE DRIVE INTERSECTION
SCALE: 1"=10'



B — WHITE PINE DRIVE - ASPEN DRIVE / MEADOW DRIVE INTERSECTION
SCALE: 1"=10'



C — WHITE PINE DRIVE - BOBCAT DRIVE INTERSECTION
SCALE: 1"=10'

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MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.
PLAN AND PROFILE
INTERSECTION GRADING DETAILS

TCC JOB NUMBER: 18.200.22

DATE SUBMITTED: 08.13.2018

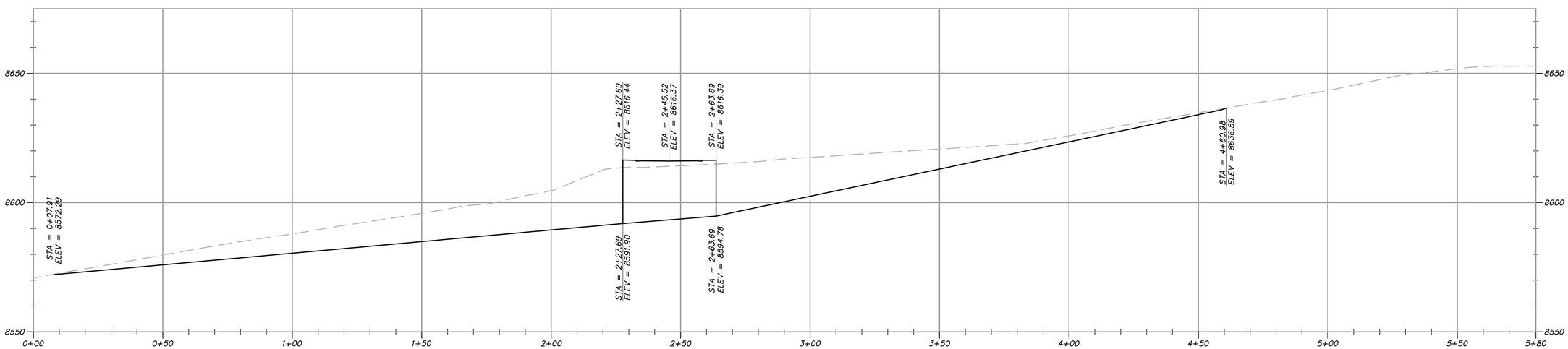
REGISTERED PROFESSIONAL ENGINEER
No. 7899506
BRYAN W. CATHEY
08/13/18
STATE OF UTAH

CALL 811 BEFORE YOU DIG
SAFE DIGGING PARTNER

SHEET NUMBER
522
38 OF 59

DATE: 8/13/2018 1:00 PM

PATH: n:\SUB0793\Cadd\18-200.22-cather estate lots - bobcat ridge\IP\522 PLAN AND PROFILE.dwg



TALISMAN
CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.
SKIER TRAIL GRADING

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
BRYAN W. CATHEY
8/13/18
STATE OF UTAH

SCALE
HORIZONTAL: 1" = 20'
0 5 10 20 30

CALL 811 BEFORE YOU DIG
811
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SHEET NUMBER
523
39 OF 59

DATE: 8/13/2018 1:05 PM

PATH: n:\SLB0793\Cadd\18-200.22-cather estate lots - bobcat ridge\IP\523 PLAN AND PROFILE.dwg

30" Frame and cover

1. **GENERAL**
   A. The frame and cover fits.
      1) Cleanout box type B in Plan 331, and
      2) Precast manhole in Plan 341.

2. **PRODUCTS**
   A. Castings: Grey iron class 35 minimum, ASTM A 48.
      1) Coated with asphalt based paint or better (except on machined surfaces).
      2) Cast the heat number on the frame and cover.
      3) Give the frame and cover a machine finish so the cover will not rock.
      4) √ designates a machine finished surface.
      5) Cast the words "STORM DRAIN" on the cover in upper case flush with the surface finish.

3. **EXECUTION**
   A. Except in paved streets, provide locking manhole covers in easements, alleys, parking lots, and all other places. Drill and tap two holes to a depth of 1-inch at 90 degrees to pry hole and install 3/4 x 3/4-inch allen socket set screws.

132

Catch basin

1. **GENERAL**
   A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.

2. **PRODUCTS**
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
   C. Concrete: Class 4000, APWA Section 03 30 04.
   D. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615.

3. **EXECUTION**
   A. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   B. Curb Face Opening: Make opening at least 4-inches high. Provide at least a 2-inch drop between the "warp line" in the gutter flow-line and the top of the grate at the curb face opening.
   C. Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
   D. Backfill: Place backfill against the basin wall. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.

154

Pipe outfall

1. **GENERAL**
   A. Round concrete pipe application.
   B. Additional requirements are specified in APWA Section 33 05 02.

2. **PRODUCTS**
   A. Use the same quality of precast end section as the pipe.
   B. Use the joint material and connection that is the same as the joints in the pipeline.

3. **EXECUTION**
   A. General dimensions and geometric shapes may vary from manufacturer to manufacturer.
   B. Steel reinforcement is not required in the concrete end section shown.
   C. Provide joint restraint connectors if required by ENGINEER.

170

Precast box

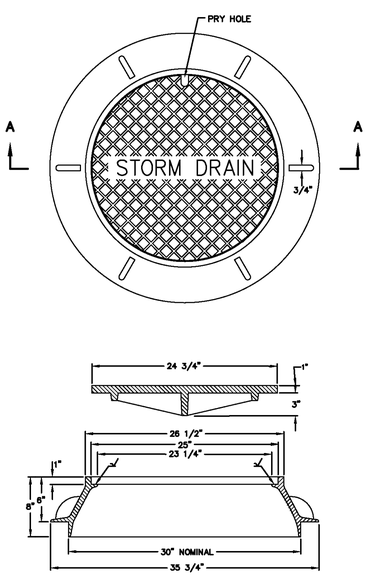
1. **GENERAL**
   A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.
   B. This drawing is acceptable where the water table elevation is less than 3 feet above the floor of the box. If elevation of water table is higher, engineering calculations and drawings must be submitted to and approved by the ENGINEER.
   C. Submit bar design detail for ENGINEER's review.

2. **PRODUCTS**
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
   C. Precast Concrete: Class 4000 precast, APWA Section 03 40 00.
   D. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615. Coated steel is not required for small drainage structures shown on this drawing.
   E. Frame and Cover (or Grate): Use the appropriate unit indicated in the Contract Documents.
   F. Joint Sealant: Rubber-based, compressible.

3. **EXECUTION**
   A. Concrete Placement: Provide 2-inches of concrete cover over reinforcing steel.
   B. Lifting Points: Provide at least 2 lifting points per section that avoid interference with the reinforcing steel and that are designed according to PCI (Prestressed Concrete Institute) design handbook. Lift only from the engineered lifting points.
   C. Depth: Drainage boxes and riser combinations that exceed 8-feet from finished grade to the bottom of the box requires ENGINEER's approval. Submit design calculations and shop drawings.
   D. Core Holes:
      1) Provide core holes that are at least 4" larger than attaching outer pipe diameter. Cut core holes at the manufacturing plant unless ENGINEER permits field core holes.
      2) Center core holes to leave 2" of concrete measured horizontally from inside wall of the box to core hole. Locate core hole vertically so bottom of core hole will be at or above floor elevation with at least 5-inches of concrete directly above the core hole to the top of the box.
      3) Deviations from core hole tolerances require shop drawings. Shop drawings will identify lifting point number and location.
   E. Precast Top: Design precast top for AASHTO HL-93 live loads and submit rebar detail and stamped design drawings to ENGINEER. Show connection detail for frame and grate or cover.

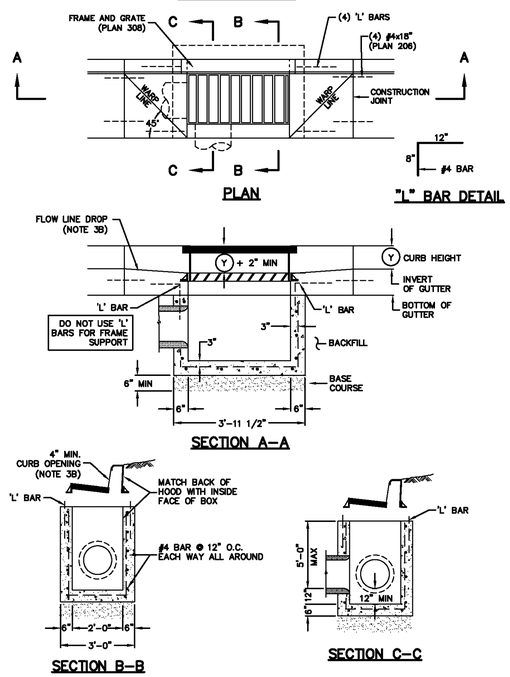
182

TYPE A



SECTION A–A

SINGLE GRATE



PLAN

"L" BAR DETAIL

SECTION A–A

SECTION B–B

SECTION C–C

ROUND WITH FLARE

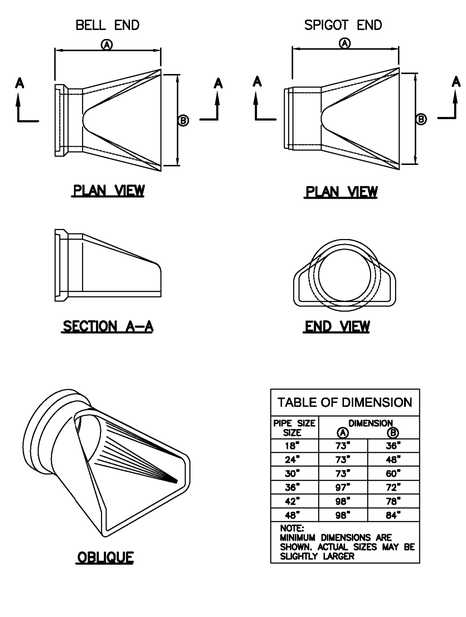
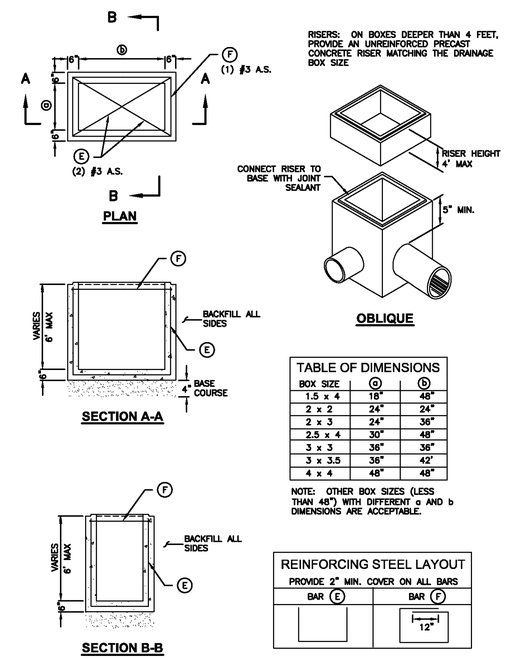


TABLE OF DIMENSION		
PIPE SIZE SIZE	DIMENSION Ⓐ	DIMENSION Ⓑ
18"	73"	36"
24"	73"	48"
30"	73"	60"
36"	97"	72"
42"	98"	78"
48"	98"	84"

NOTE:
MINIMUM DIMENSIONS ARE SHOWN. ACTUAL SIZES MAY BE SLIGHTLY LARGER



PLAN

OBLIQUE

SECTION A-A

SECTION B-B

TABLE OF DIMENSIONS		
BOX SIZE	ⓐ	ⓑ
1.5 x 4	18"	48"
2 x 2	24"	24"
2 x 3	24"	36"
2.5 x 4	30"	48"
3 x 3	36"	36"
3 x 3.5	36"	42"
4 x 4	48"	48"

NOTE: OTHER BOX SIZES (LESS THAN 48") WITH DIFFERENT a AND b DIMENSIONS ARE ACCEPTABLE.

REINFORCING STEEL LAYOUT	
PROVIDE 2" MIN. COVER ON ALL BARS	
BAR Ⓔ	BAR Ⓕ
	12"

30" Frame and cover — Plan **302** Sheet 1 of 2 — September 2001 — 133

Catch basin — Plan **315** Sheet 1 of 2 — September 2010 — 155

Pipe outfall — Plan **323** Sheet 1 of 3 — November 2010 — 171

Precast box — Plan **332** — June 2010 — 183

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5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
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NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.
DETAILS

TCC JOB NUMBER: 18.200.22

DATE SUBMITTED: 08.13.2018

REGISTERED PROFESSIONAL ENGINEER No. 7899506 BRYAN W. CATHEY 08/13/18 STATE OF UTAH

CALL 811 BEFORE YOU DIG — SAFE DIGGING PARTNER

SHEET NUMBER
701
42 OF 59

DATE: 8/13/2018 11:17 AM

PATH: n:\SLB0793\Cad\18-200.22-sether estate lots - bobcat ridge\P\701 DETAILS.dwg

30" Frame and cover

1. **GENERAL**
   A. The frame and cover fits the manhole in Plan 411.

2. **PRODUCTS**
   A. Castings: Grey iron class 35 minimum, ASTM A 48, coated with asphalt based paint or better (except on machined surfaces).
      1) Cast the heat number on the frame and cover.
      2) Give the frame and cover a machine finish so the cover will not rock.
      3) √ designates machined surface.
      4) Cast the words "SEWER" on the cover in upper case flush with the surface finish.

3. **EXECUTION**
   A. Except in paved streets, provide locking manhole covers in easements, alleys, parking lots, and all other places. Drill and tap two holes to a depth of 1-inch at 90 degrees to pry hole and install 3/4 x 3/4-inch allen socket set screws.

210

Sanitary sewer manhole

1. **GENERAL**
   A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the manhole.
   B. Manhole size.
      1) Diameter is 4 feet: For sewers under 12" diameter.
      2) Diameter is 5 feet: For sewers 12" and larger, or when 3 or more pipes intersect the manhole.

2. **PRODUCTS**
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
   C. Concrete: Class 4000, APWA Section 03 30 04.
   D. Riser and Reducing Riser: ASTM C 478.
   E. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615.
   F. Grout: 2 parts sand to 1 part cement mortar, ASTM C 1329.
   G. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.

3. **EXECUTION**
   A. Foundation Stabilization: Get ENGINEER's permission to use a sewer rock or a granular backfill borrow in a geotextile wrap to stabilize an unstable foundation.
   B. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   C. Invert Cover. During construction, place invert covers over the top of pipe in manholes that currently convey sewerage. See Plan 412.
   D. Pipe Connections: Grout around all pipe openings.
   E. Pipe Seal: Install rubber-based pipe seals on all plastic pipes when connecting plastic pipes to manholes. Hold water-stop in place with stainless steel bands.
   F. Joints: Place flexible gasket-type sealant in all riser joints. Finish with grout.
   G. Adjustment: If the required manhole adjustment is more than 1'-0", remove the cone and grade rings and adjust the manhole elevation with the appropriate manhole section, the cone section, and the grade rings or plastic form to make frame and lid match finish grade.
   H Finish: Provide smooth and neat finishes on interior of cones, shafts, and rings. Imperfect moldings or honeycombs will not be accepted.
   I. Backfill: Provide backfill against the manhole shaft. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.

212

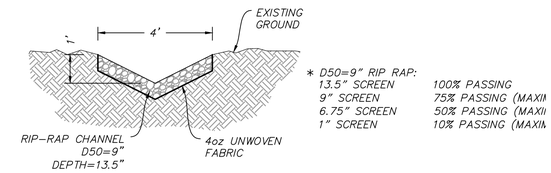
Cover collar for sanitary sewer manhole

1. **GENERAL**
   A. In a pavement surface, the concrete will support the frame under traffic loadings.

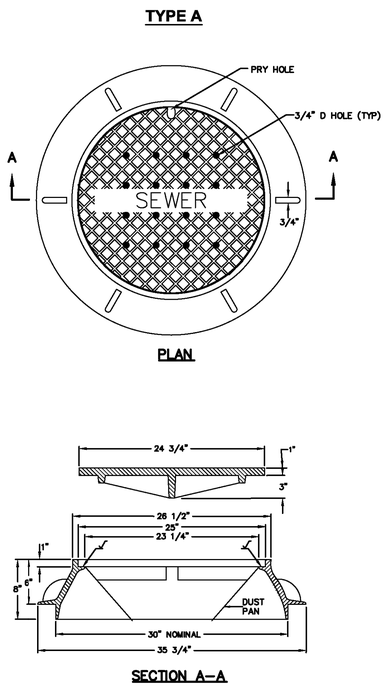
2. **PRODUCTS**
   A. Concrete: Class 4000, APWA Section 03 30 04.
   B. Concrete Curing Agent: Type ID Class A (clear with fugitive dye), membrane forming compound, APWA Section 03 39 00.

3. **EXECUTION**
   A. Pavement Preparation: Provide a neat vertical and concentric joint between concrete and existing asphalt concrete surfaces. Clean edges of all dirt, oil, and loose debris.
   B. Concrete Placement: Fill the annular space around the frame and cover casting with concrete. Apply a broom finish. Apply a curing agent.

216



A - **DRAINAGE SWALE DETAIL**
SCALE: 1" = N.T.S.

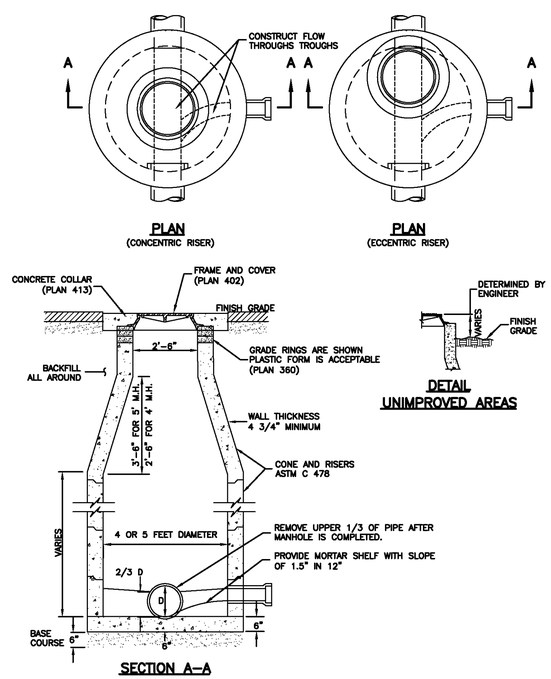


30" Frame and cover

Plan **402**

April 1997

211

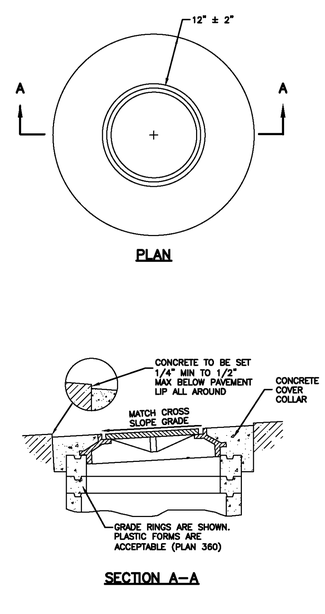


Sanitary sewer manhole

Plan **411**

April 2011

213



Cover collar for sanitary sewer manhole

Plan **413**

September 2001

217

TALISMAN
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5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS

BOBCAT RIDGE AT S.P.M.
DETAILS

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER No. 7899506 RYAN W. CATHEY 8/13/18 STATE OF UTAH

CALL UT BEFORE YOU DIG 811 SAFE DIGGING PARTNER

SHEET NUMBER
703
44 OF 59

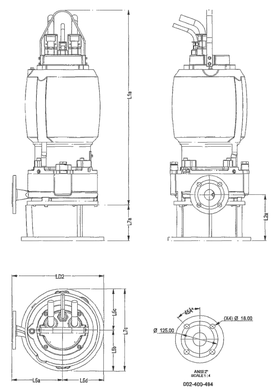
DATE: 8/13/2018 11:18 AM
PATH: n:\SLB0793\Cadd\18-200.22-sether estate lots - bobcat ridge\P\703 DETAILS.dwg

DATE: 8/13/2018 12:55 PM

Technical data
MSPG2 50.0-2

6/21/2016 | Page: 2

MSPG2 50.0-2 | With motor MA2.1C-12,5



Dimension Name	inch Value	Dimension Name	inch Value
L1	32 5/8		
L2a	7 13/16		
L5a	8 7/16		
L5b	6 7/8		
L5c	6 7/8		
L5d	6 7/8		
L7a	6 1/16		
L7c	13 1/8		
LD2	15 5/16		

Outlet - Standard : DN 50 (2")

Total Weight of Pump = 294.5 lb
Weight of Base for Transportable = 12.13 lb

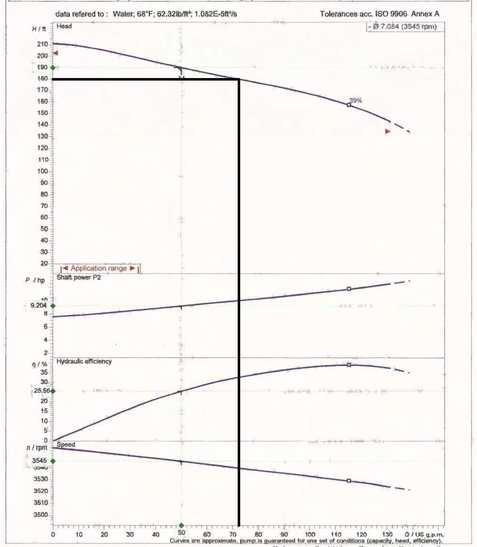
Mody reserves the right to modify any data without prior notice.

Performance curves 60 Hz
MSPG2 50.0-2

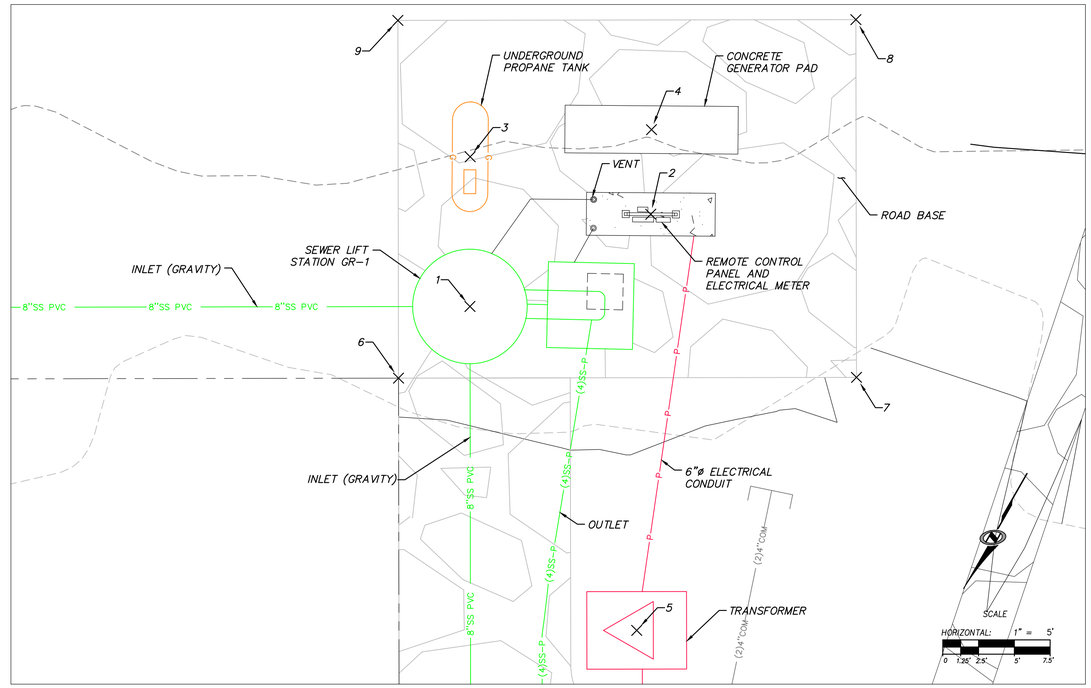
6/21/2016 | Page: 1

Pump : MSPG2 50.0-2	Single head pump 1	Duty point	
Impeller : CG2	Multi channel Impeller D= 7.084 inch	Flow capacity :	50 US g.p.m.
Free throughlet : 0.3937 inch	Nominal speed : 3524 rpm	Delivery Head :	190 ft
		Pump efficiency :	25.56 %
Motor : MA2.1C-12,5	3~ 60 Hz 3524 rpm	Rated power :	9.20 hp (P2)
Rated power(P2) / voltage / current :	12.5 hp 460 V 15.3 A	Power input :	10.52 hp (P1)
Motor efficiency 4/4 :	87.4 % Power factor 4/4 (cos phi): 0.88		
Motor cable leads :	[1x]4x4mm² + 4x1.5mm² (DOL) / [2x]4x2.5mm² + 4x1,5mm² (SD)		

data refered to : Water; 68°F; 62.32lb/ft³; 1.082E-5ft²/s — Tolerances acc. ISO 9906 Annex A



Curves are approximate, pump is guaranteed for one set of conditions (capacity, head, efficiency).
Mody reserves the right to modify any data without prior notice.



PLAN VIEW

Point Table		
Point #	Northing	Easting
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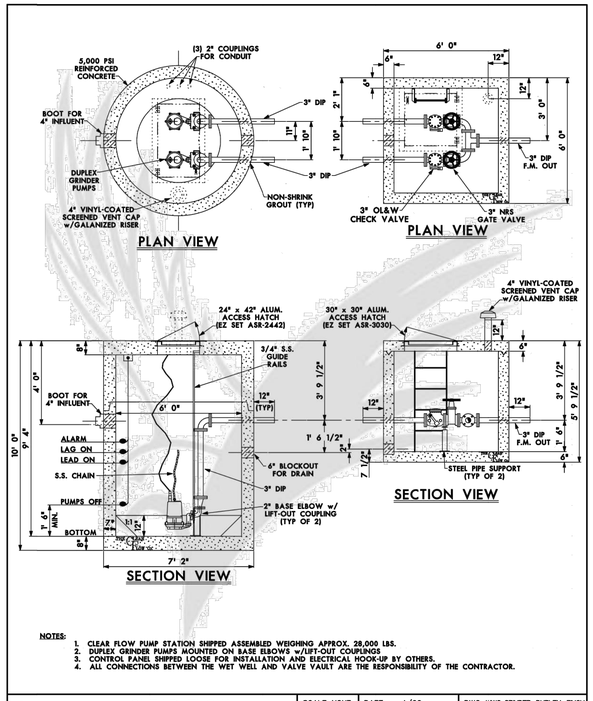
2	3653213.31	1572251.39
3	3653216.04	1572264.35
4	3653208.14	1572254.26
5	3653239.09	1572237.90
6	3653231.97	1572261.07
7	3653216.14	1572233.27
8	3653194.41	1572245.64
9	3653210.25	1572273.44

LEGEND

PUMP NAME	INVERT IN	INVERT IN SIZE	SUMP ELEV	BASIN DIA.	PUMP HEAD	PUMP HP	DISCHARGE DIA	DISCHARGE VELOCITY	MIN STORAGE VOLUME (gal)	STATION DETAIL	PUMP	FLOW (GPM)	AUTO DIALER	MAIN POWER TRANSFER SWITCH	POWER
BR-2	8437.61 8437.63	8" 8"	8434.59	72"	180'	12.5	4"	3.16 ft/sec	315	MSPG2 50.0-2	MODY SUBMERSIBLE SEWAGE PUMP	10.5	CELLULAR	AUTOMATIC	3 PHASE/460 VOLT



NOTES:
1. CLEAR FLOW PUMP STATION SHIPPED ASSEMBLED WEIGHING APPROX. 28,000 LBS.
2. DUPLEX GRINDER PUMPS MOUNTED ON BASE ELBOWS w/LIFT-OUT COUPLINGS
3. CONTROL PANEL SHIPPED LOOSE FOR INSTALLATION AND ELECTRICAL HOOK-UP BY OTHERS.
4. ALL CONNECTIONS BETWEEN THE WET WELL AND VALVE VAULT ARE THE RESPONSIBILITY OF THE CONTRACTOR.

CLEAR FLOW BY AMERICAST

SCALE: NONE	DATE: 4/06	DWG: WW6 GRINDER-DUPLEX-3INCH

6' DIAMETER DUPLEX GRINDER PUMP STATION w/E-Z OUT RAIL SYSTEM

GENERAL NOTES

1. LIFT STATIONS MUST BE COVERED WITH HS-20 LOAD RATED LIDS WHICH ARE SPRING LOADED FOR EASY OPENING.
2. CHECK VALVES ON PUMP STATIONS SHALL BE BALL CHECK VALVES.
3. PUMP STATION LEVEL SENSORS SHALL BE MERCURY FLOAT SWITCHES, SEE ELECTRICAL.
4. OWNER TO PROVIDE A SPARE PUMP FOR EACH BRAND OF PUMP USED TO PMWSID IN CASE OF PUMP FAILURE.

TALISMAN CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
SEWER GRINDER STATION DETAILS
BR-2 BACK LOT SEWER GRINDER STATION

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER No. 7899506 RYAN W. CATHEY 8/13/18 STATE OF UTAH

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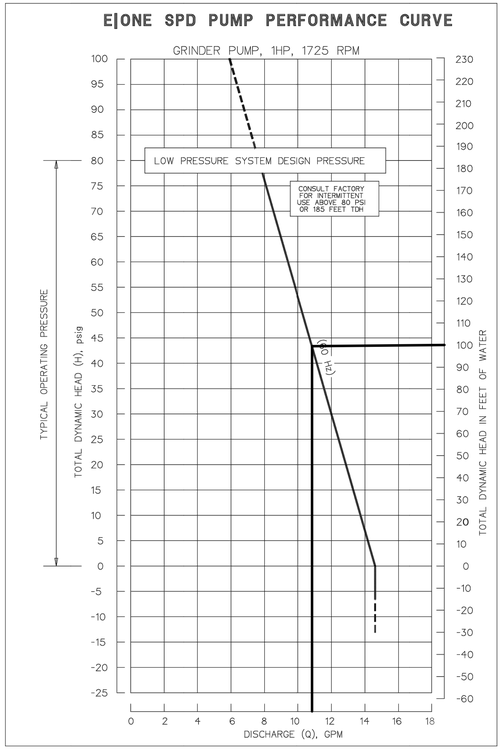
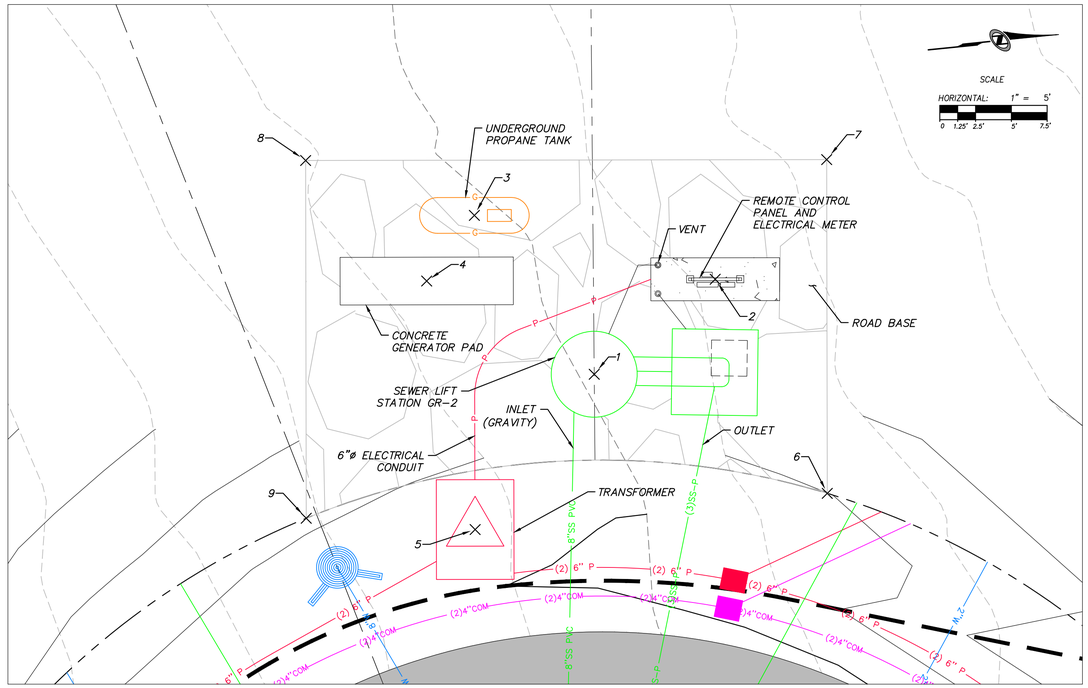
SHEET NUMBER
706
47 OF 59

PATH: N:\SLB0793\Cad\18-200.22-Aether Estate Lots - Bobcat Ridge\P\706 SEWER GRINDER STATION DETAILS.dwg



ESD 08-0022 REV. 2, 6/08



PLAN VIEW

Point Table		
Point #	Northing	Easting
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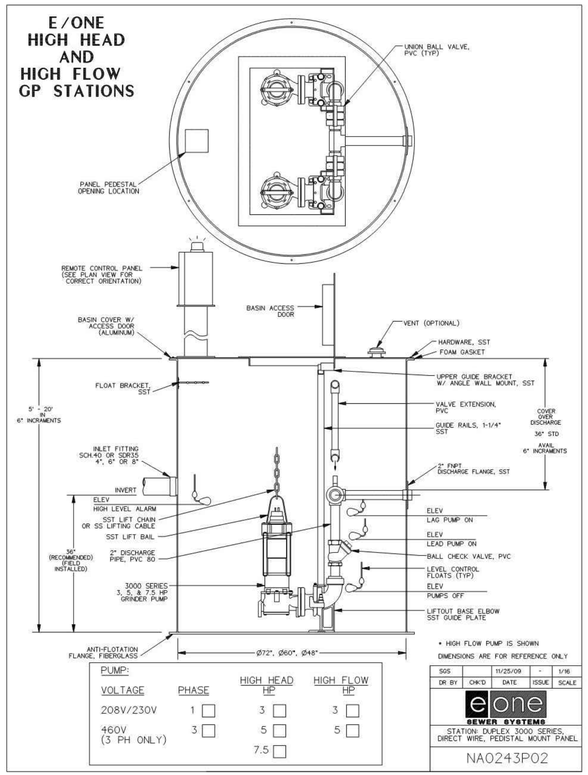
2	3654725.25	1571475.81
3	3654708.97	1571469.63
4	3654705.18	1571473.85
5	3654706.75	1571491.47
6	3654731.48	1571491.51
7	3654733.86	1571468.30
8	3654697.64	1571464.60
9	3654695.10	1571489.47

LEGEND

PUMP NAME	INVERT IN	INVERT IN SIZE	SUMP ELEV	BASIN DIA.	PUMP HEAD	PUMP HP	DISCHARGE DIA	DISCHARGE VELOCITY	MIN STORAGE VOLUME (gal)	STATION DETAIL	PUMP	FLOW (GPM)	AUTO DIALER	MAIN POWER TRANSFER SWITCH	POWER
BR-1	8441.16	8"	8438.16	72"	100	3	3"	2.5 ft/sec	100	DUPLEX 3000 SERIES	SUBMERSIBLE GRINDER PUMP E-ONE 3F31	3.5	CELLULAR	MANUAL	1 PHASE/240 VOLT



GENERAL NOTES

1. LIFT STATIONS MUST BE COVERED WITH HS-20 LOAD RATED LIDS WHICH ARE SPRING LOADED FOR EASY OPENING.
2. CHECK VALVES ON PUMP STATIONS SHALL BE BALL CHECK VALVES.
3. PUMP STATION LEVEL SENSORS SHALL BE MERCURY FLOAT SWITCHES, SEE ELECTRICAL.
4. OWNER TO PROVIDE A SPARE PUMP FOR EACH BRAND OF PUMP USED TO PMWSID IN CASE OF PUMP FAILURE.

TALISMAN CIVIL CONSULTANTS
5217 SOUTH STATE STREET
SUITE 200
MURRAY, UT 84107
801.743.1300

NO.	BY	DATE	REVISIONS:

BOBCAT RIDGE AT S.P.M.
SEWER GRINDER STATION DETAILS
BR-1 ASPEN DRIVE SEWER GRINDER STATION

DATE SUBMITTED: 08.13.2018

TCC JOB NUMBER: 18.200.22

REGISTERED PROFESSIONAL ENGINEER No. 7899506 RYAN M. CATHEY 08/13/18 STATE OF UTAH

CALL 811 BEFORE YOU DIG SAFE DIGGING PARTNER

SHEET NUMBER
707
48 OF 59

DATE: 8/13/2018 12:55 PM

PATH: N:\SL8793\Cadd\18-200.22-Aether Estate Lots - Bobcat Ridge\P\707 SEWER GRINDER STATION DETAILS.dwg