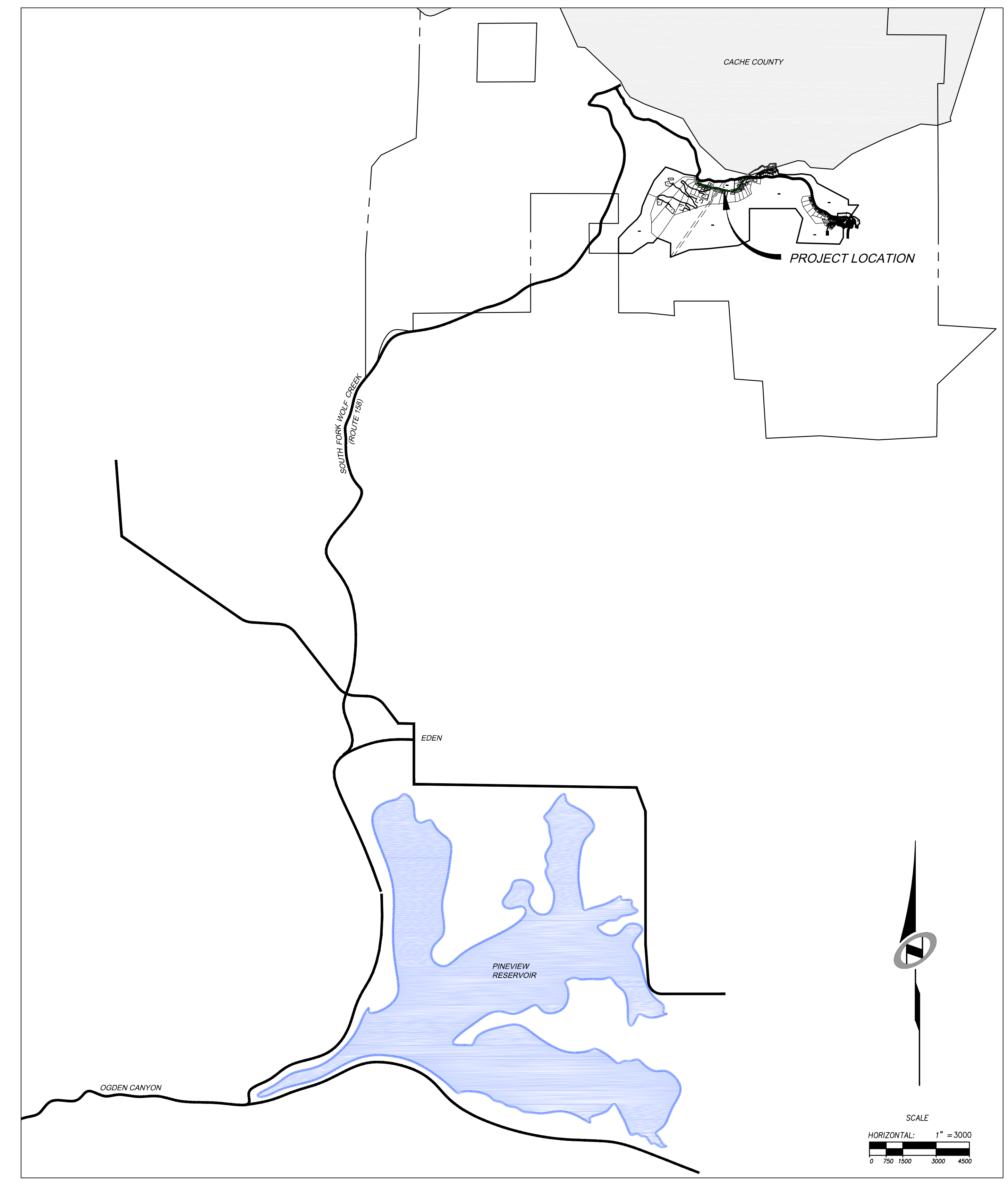


DATE: 8/26/14 TIME: 2:10:49 PM DRAWING NAME: P1001.DWG
 SERVER: NONE PAGE SETUP: LAYOUT: P1001
 PATH: N:\SLB0793\CAD\PHASE 1\WP1-A-ESSDNGR-###.DWG PROJ. NO: ###

SUMMIT EDEN PHASE 1A

ROADWAY AND UTILITY CONSTRUCTION DRAWINGS

Located in Sec 01 T7N R1E
Weber County, Utah



SHEET INDEX:

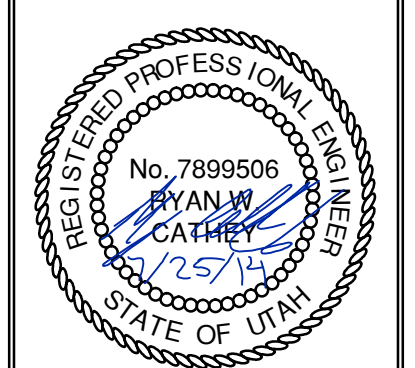
SHEET NUMBER	SHEET DESCRIPTION
1.00	CIVIL TITLE SHEET
1.01	GENERAL NOTES, LEGEND, AND KEYNOTES
1.02	SHEET KEYMAP
1.03	OVERALL UTILITY
1.04	OVERALL GRADING AND DRAINAGE
1.05	ROADWAY TYPICAL SECTION
2.00	PLAN & PROFILE - HORIZON RUN
2.01	PLAN & PROFILE - HORIZON RUN
2.02	PLAN & PROFILE - HORIZON RUN
3.00	EARTHWORK & SECTIONS - HORIZON RUN
3.01	EARTHWORK & SECTIONS - HORIZON RUN
3.02	EARTHWORK & SECTIONS - HORIZON RUN
4.00	EROSION CONTROL PLAN - HORIZON RUN
4.01	EROSION CONTROL PLAN - HORIZON RUN
5.00	STORM DRAIN DETAILS
5.01	WATER DETAILS
5.02	WATER DETAILS
5.10	SEWER DETAILS
5.11	SEWER DETAILS
5.12	MISCELLANEOUS DETAILS
5.20	ELECTRICAL DETAILS
5.30	MISCELLANEOUS DETAILS
6.00	DRY UTILITIES - HORIZON RUN
6.01	DRY UTILITIES - HORIZON RUN
6.02	DRY UTILITIES - HORIZON RUN
ELECTRICAL PLANS	
E1	ELECTRICAL NOTES AND DETAILS
E2	ELECTRICAL SITE PLAN AND SEWAGE LIFT STATION NUMBER 2
E3	LIFT STATION NUMBER 2 POWER ONE-LINE DIAGRAM
GE-1	ELECTRICAL DETAILS
GE-2	ELECTRICAL DETAILS
ROCKERY DESIGN	
1.1	COVER SHEET
1.2	PLAN VIEW
1.3	DESIGN CRITERIA
1.4a	SECTION VIEW
1.4b	SECTION VIEW
1.5	ARC ROCKERY CONSTRUCTION DETAILS
2.1	FHWA ROCKERY DESIGN CALCULATIONS
2.2	SLIDE CALCULATION OUTPUT

SUMMIT EDEN PHASE 1A

CIVIL TITLE SHEET

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

NV5
 BEYOND ENGINEERING
 627 SOUTH STATE STREET, SUITE 200
 MURRAY, UT 84107
 801.743.0300 TEL 801.743.0300 FAX
 WWW.NV5.COM



SHEET NUMBER
1.00

SCALE
 VERTICAL: 1" = 8'
 HORIZONTAL: 1" = 3000'

JOB NUMBER
SLB079306

BOWDEN XREFS:

REVISIONS:
 NO. BY DATE REVISIONS
 1 RWC 8/27/14 ADD ROW 1
 2 RWC 7/27/14 WEBER COUNTY REVIEW REVISIONS
 3 RWC 7/27/14 COUNTY REVIEW

CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

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)...

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...

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.

GEOTECHNICAL REPORT

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND READ A COPY OF THE GEOTECHNICAL REPORT "DESIGN GEOTECHNICAL INVESTIGATION POWDER MOUNTAIN RESORT WEBER, COUNTY, UTAH" PRODUCED BY IGES...

LEGEND:

Table with columns: SYMBOL / LINETYPE, DESCRIPTION, DETAIL. Includes various pipe types like 10" W, 8" W, 18" SD, 8" SS, 8" SS HDPE, 4" SS-P, 6" W, SS, 4" W, and symbols for hatching, utility lines, and markers.

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...

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

SCOPE OF WORK:

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

- HATCHING INDICATES AREAS TO RECEIVE 4" TOPSOIL AND TO BE SEEDED FOR NATURAL VEGETATION*. AREAS RECEIVING SEEDING FOR NATURAL VEGETATION MUST BE COVERED WITH AN EROSION CONTROL BLANKET AFTER THE FINAL GRADING AND SEEDING ARE FINISHED.
INSTALL 15' X 50' VEHICLE WASH DOWN AREA WITH 1"-2.5" COARSE AGGREGATE PLACED A MINIMUM 8" THICK.

KEYNOTE CALLOUTS

- 1 2" WATER SERVICE LATERAL PER DETAIL A/SHEET 5.02 AND APWA STANDARD DRAWING 552 AND SPECIFICATIONS (TYP.)
2 10" 22.5" DI BEND PER APWA PLAN NO. 561,562
3 10"x8" FLANGED DI TEE PER APWA PLAN NO. 561,562

* SEED MIXTURE FOR REVEGETATION
a. MEADOW BROME (RIGOR) 14lb/ac
b. ORCHARD GRASS 10lb/ac
c. ALFALFA (ADAK) 4lb/ac

SUMMIT EDEN PHASE 1A

GENERAL NOTES, LEGEND, AND KEYNOTES

DATE SUBMITTED: 01/07/2014

NV5 BEYOND ENGINEERING 5217 SOUTH STATE STREET, SUITE 200 MURRAY, UT 84017 WWW.NV5.COM

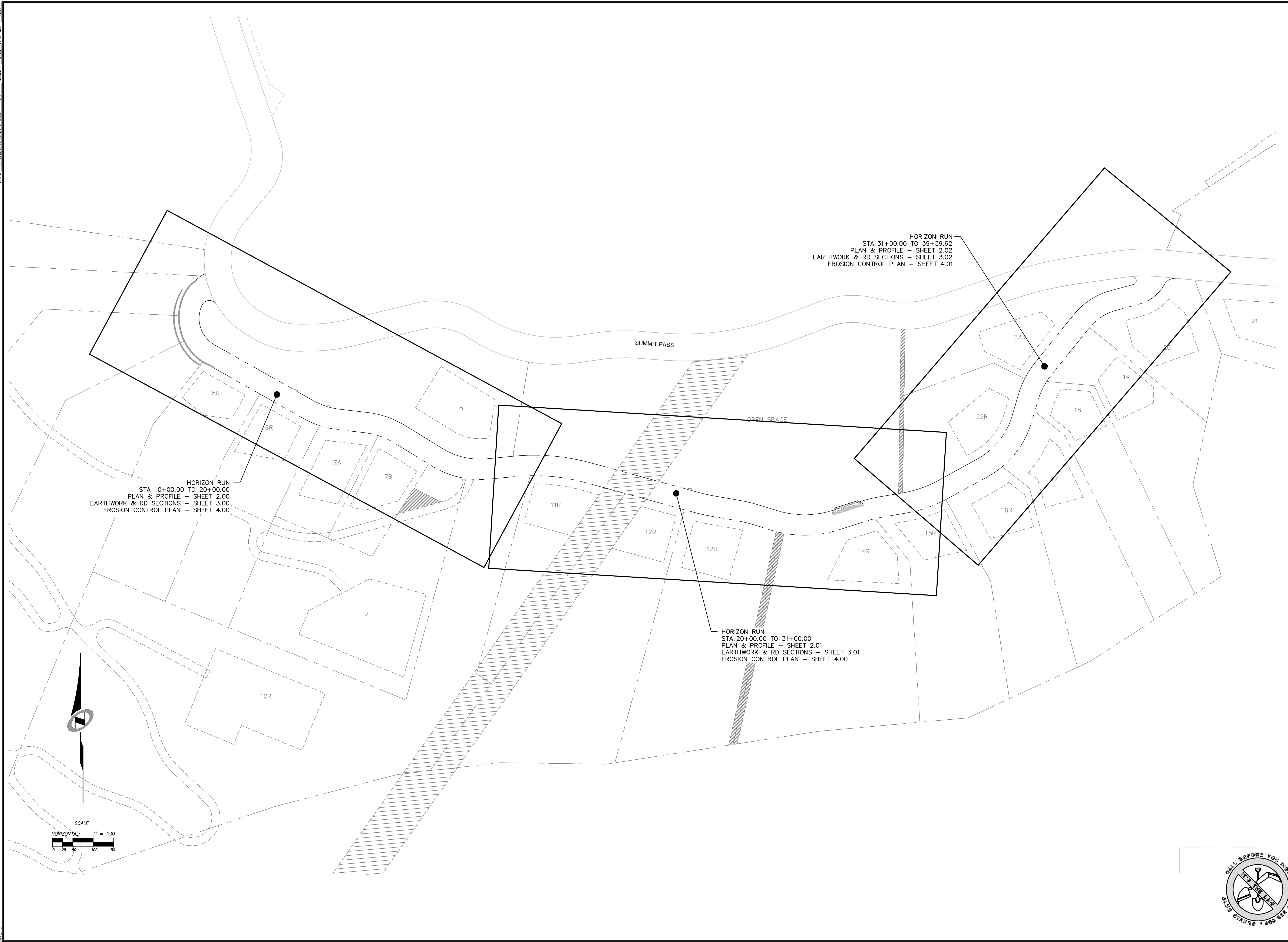
Professional Engineer Seal for Ryan W. Catherly, State of Utah, No. 7899506.

SHEET NUMBER 1.01, SCALE VERTICAL: 1"= N/A, HORIZONTAL: 1"= N/A, JOB NUMBER SLB079306



DATE: 8/26/14 TIME: 2:15:17 PM DRAWING NAME: P:\020KALDWG
 SERVER: NONE PAGE SETUP: P:\020KAL
 LAYOUT: P:\020KAL
 PATH: N:\SLB0793\CAD\PHASE 1\VP\PT-A_020KAL.dwg DESIGNED: ### PROJ. MGR: ###

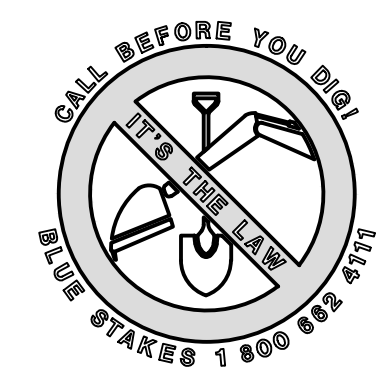
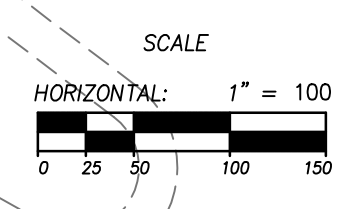
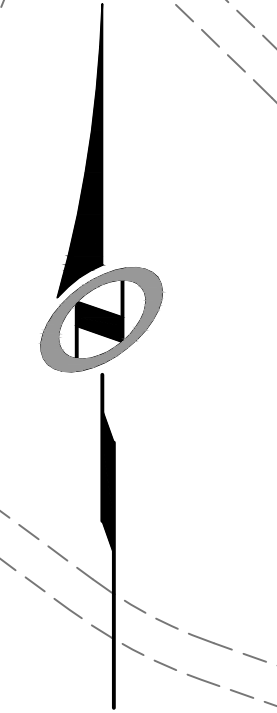
BOWDEN
 XREFS:



HORIZON RUN
 STA 10+00.00 TO 20+00.00
 PLAN & PROFILE - SHEET 2.00
 EARTHWORK & RD SECTIONS - SHEET 3.00
 EROSION CONTROL PLAN - SHEET 4.00

HORIZON RUN
 STA: 31+00.00 TO 39+39.62
 PLAN & PROFILE - SHEET 2.02
 EARTHWORK & RD SECTIONS - SHEET 3.02
 EROSION CONTROL PLAN - SHEET 4.01

HORIZON RUN
 STA: 20+00.00 TO 31+00.00
 PLAN & PROFILE - SHEET 2.01
 EARTHWORK & RD SECTIONS - SHEET 3.01
 EROSION CONTROL PLAN - SHEET 4.00



NO.	BY	DATE	REVISIONS
1	PMC	8/27/14	ADDENDUM 1
2	PMC	7/27/14	WEBB COUNTY REVIEW REVISIONS

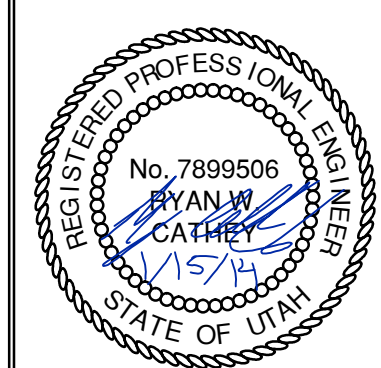
CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

SUMMIT EDEN PHASE 1A

SHEET KEYMAP

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 MURRAY, UT 84107
 801.743.0300 TEL. 801.743.0300 FAX
 WWW.NV5.COM



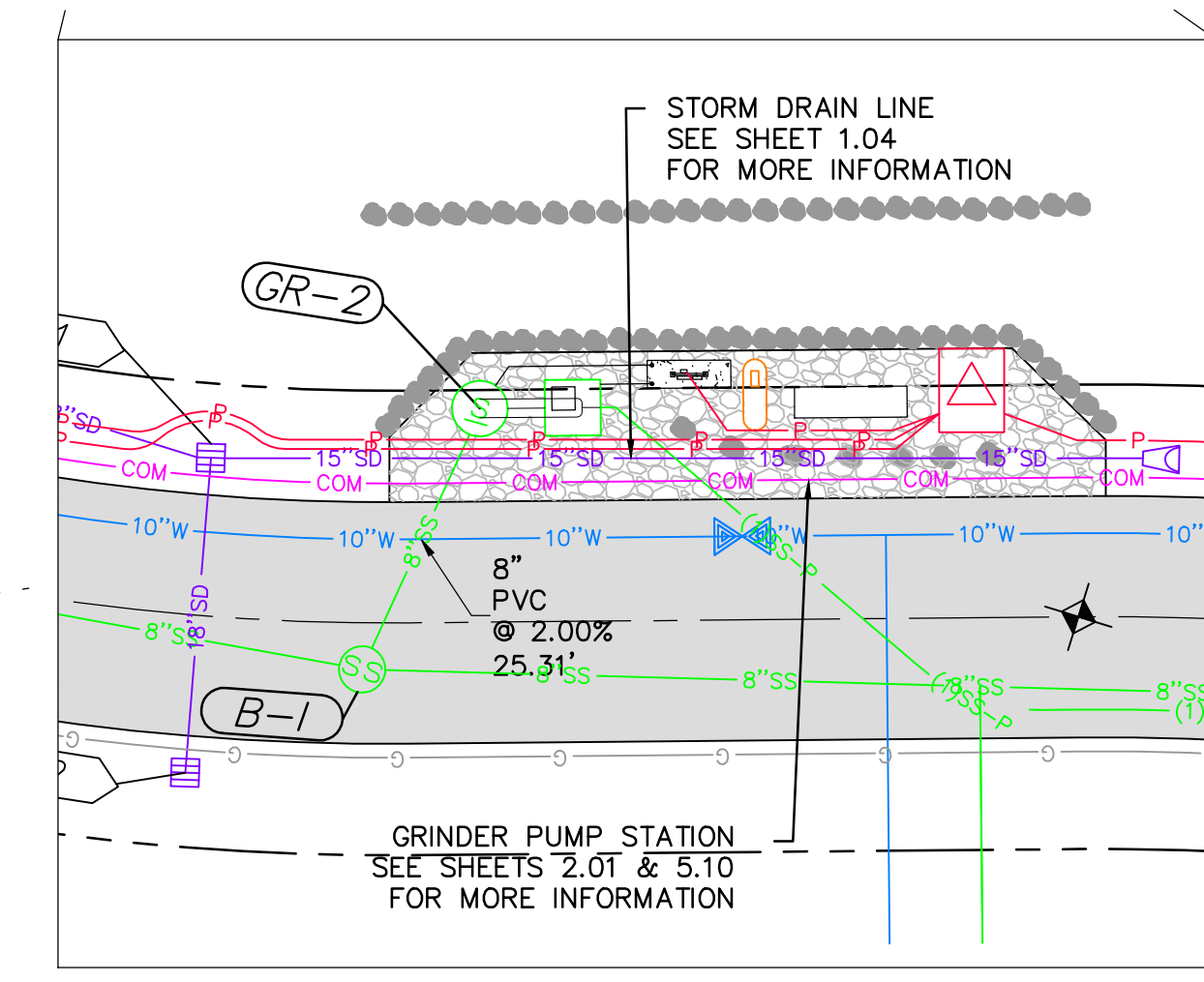
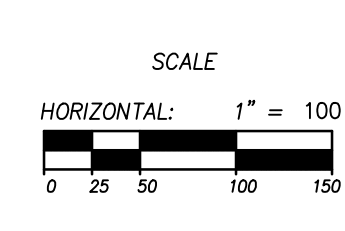
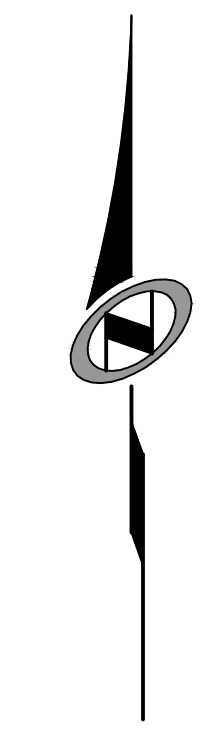
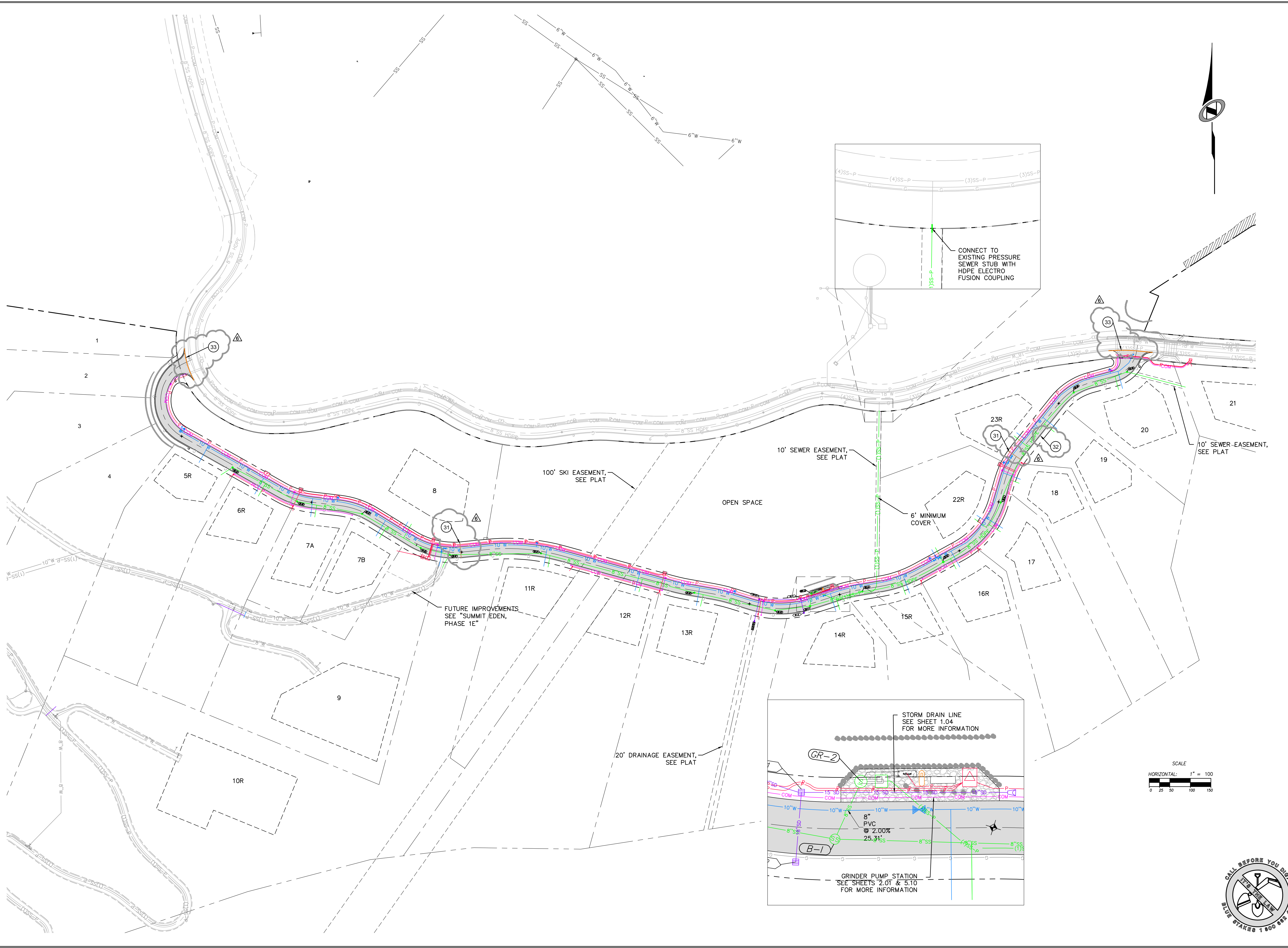
SHEET NUMBER
1.02

SCALE
 VERTICAL: 1" = 100'
 HORIZONTAL: 1" = NA

JOB NUMBER
SLB079306

DATE: 8/28/14 TIME: 9:57:27 AM DRAWING NAME: P10301.DWG
 SERVER: NONE PAGE SETUP: P10301-24x36 LAYOUT: P10301
 PATH: N:\BLB0793\CAD\PHASE 1\WP1-A-ESSENGE-###.DWG PROJ. MOR: ###

BOWDEN
 XREES:

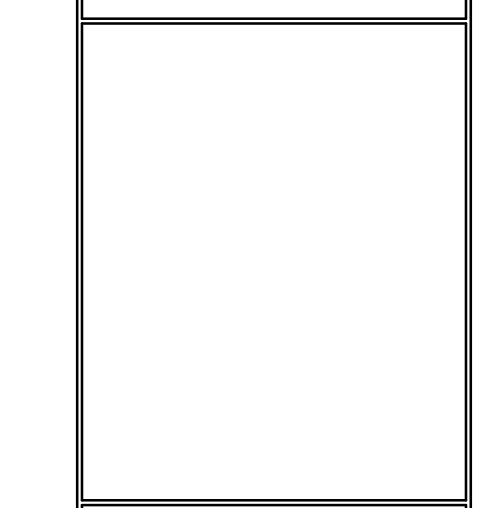


NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADDendum 1
2	RMC	8/27/2014	RESE CONDUIT VIEW REVISIONS
3	RMC	8/27/2014	RESE CONDUIT VIEW REVISIONS
4	RMC	8/27/2014	RESE CONDUIT VIEW REVISIONS
5	RMC	8/27/2014	RESE CONDUIT VIEW REVISIONS
6	RMC	8/27/2014	RESE CONDUIT VIEW REVISIONS

SUMMIT EDEN PHASE 1A
OVERALL UTILITY PLAN

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 MURRAY, UT 84107
 801.743.0300 TEL. 801.743.0300 FAX
 WWW.NV5.COM



SHEET NUMBER
1.03

SCALE
 VERTICAL: 1" = NA
 HORIZONTAL: 1" = 100

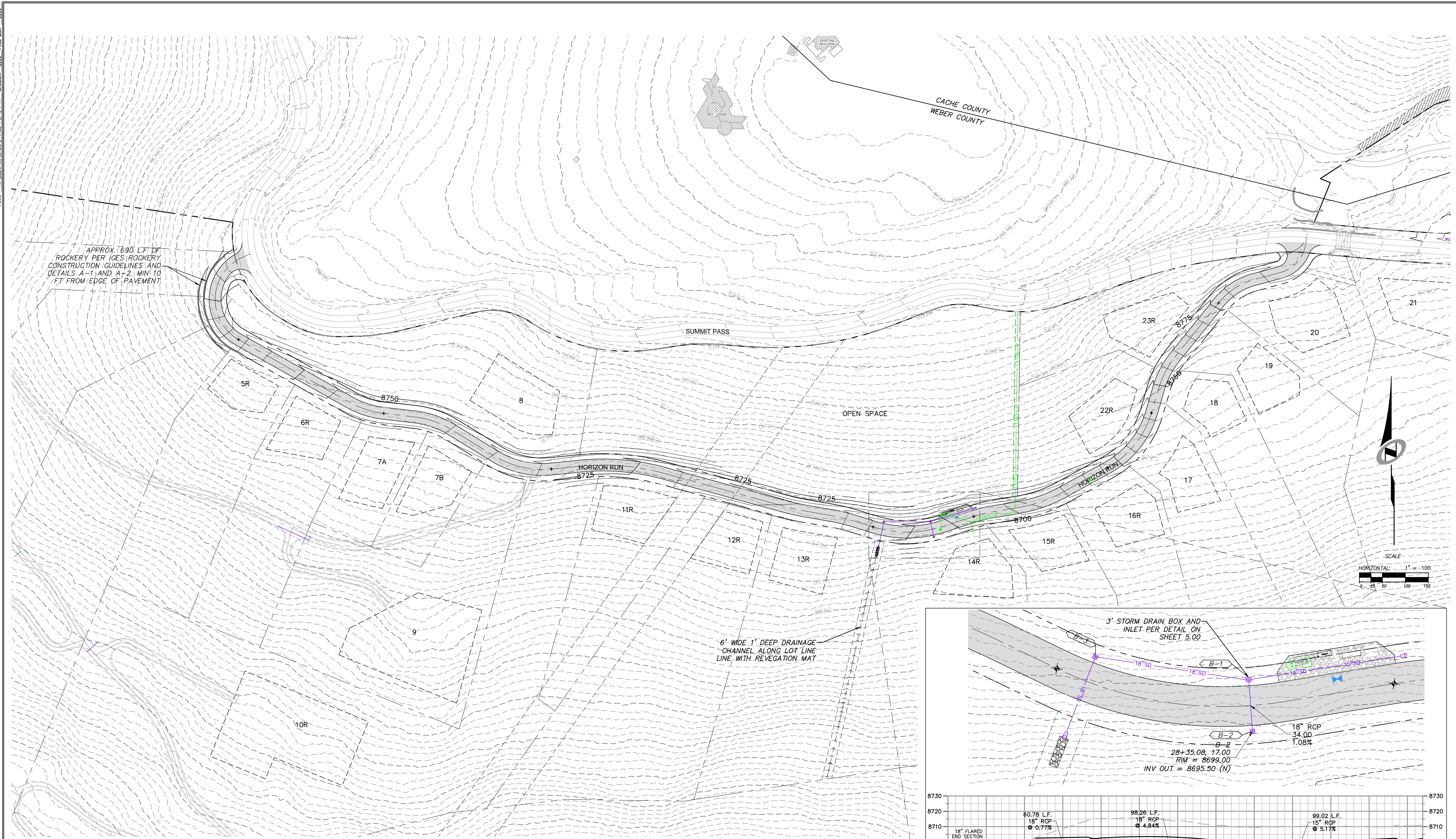
JOB NUMBER
SLB079306

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.



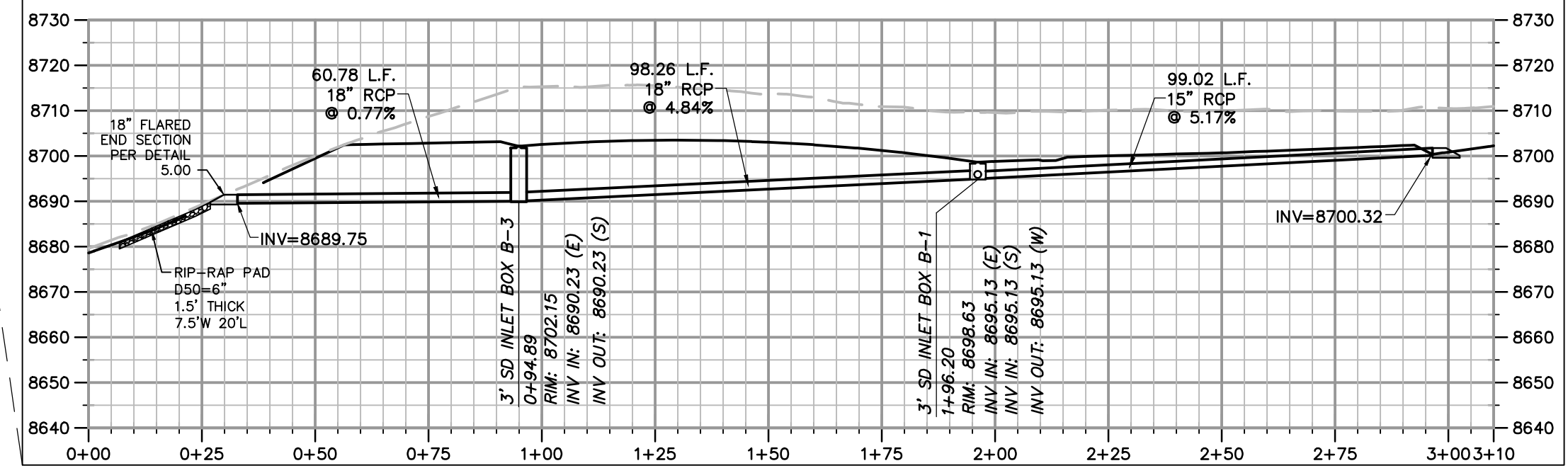
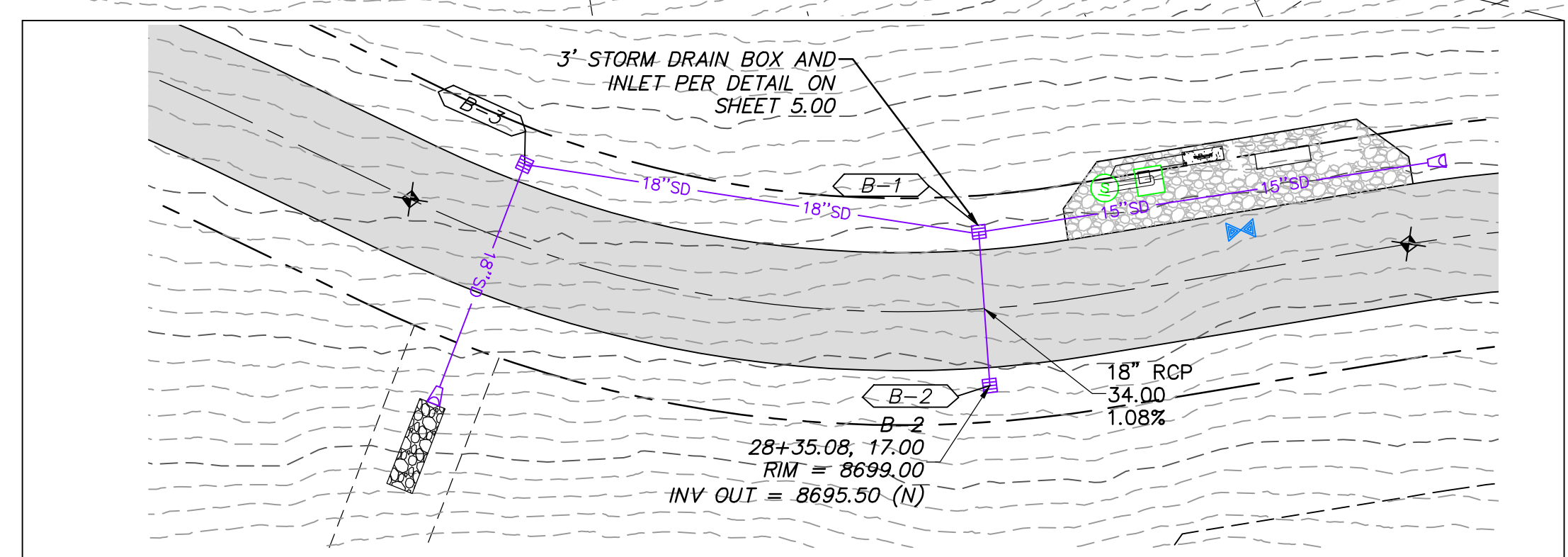
DATE: 8/26/14 TIME: 2:39:43 PM DRAWING NAME: P1040R.DWG
 SERVER: NONE PLOT SETUP: P1040R-24x36 LAYOUT: P1040R
 PATH: H:\B07930\CAD\PHASE 1\VP\P1-A_000000.dwg PROJ. WDR: ###

BOWDEN
 XREFS:



APPROX. 1690 L.F. OF
 ROCKERY PER IGES (ROCKERY
 CONSTRUCTION GUIDELINES AND
 DETAILS A-1 AND A-2) MIN 10
 FT FROM EDGE OF PAVEMENT.

6' WIDE 1' DEEP DRAINAGE
 CHANNEL ALONG LOT LINE
 WITH REVEGETATION MAT

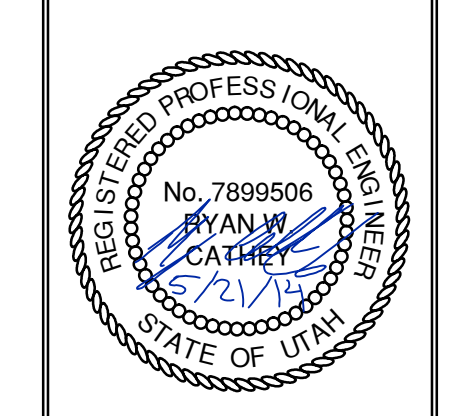


NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADD/NOV 1
2	RMC	7/27/2014	WEBER COUNTY REVIEW REVISIONS
3	RMC	8/27/2014	FOR L. ESDM

SUMMIT EDEN PHASE 1A
HORIZON RUN
OVERALL GRADING AND DRAINAGE PLAN
 PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC
 DATE SUBMITTED: 01/07/2014

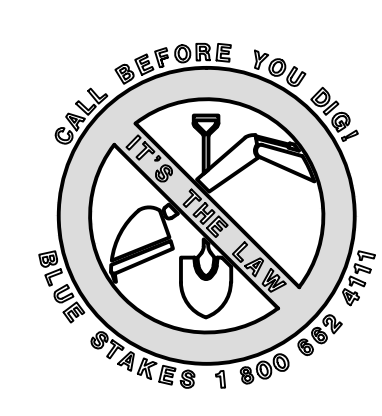
NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 MURRAY, UT 84107
 WWW.NV5.COM

SHEET NUMBER
1.04

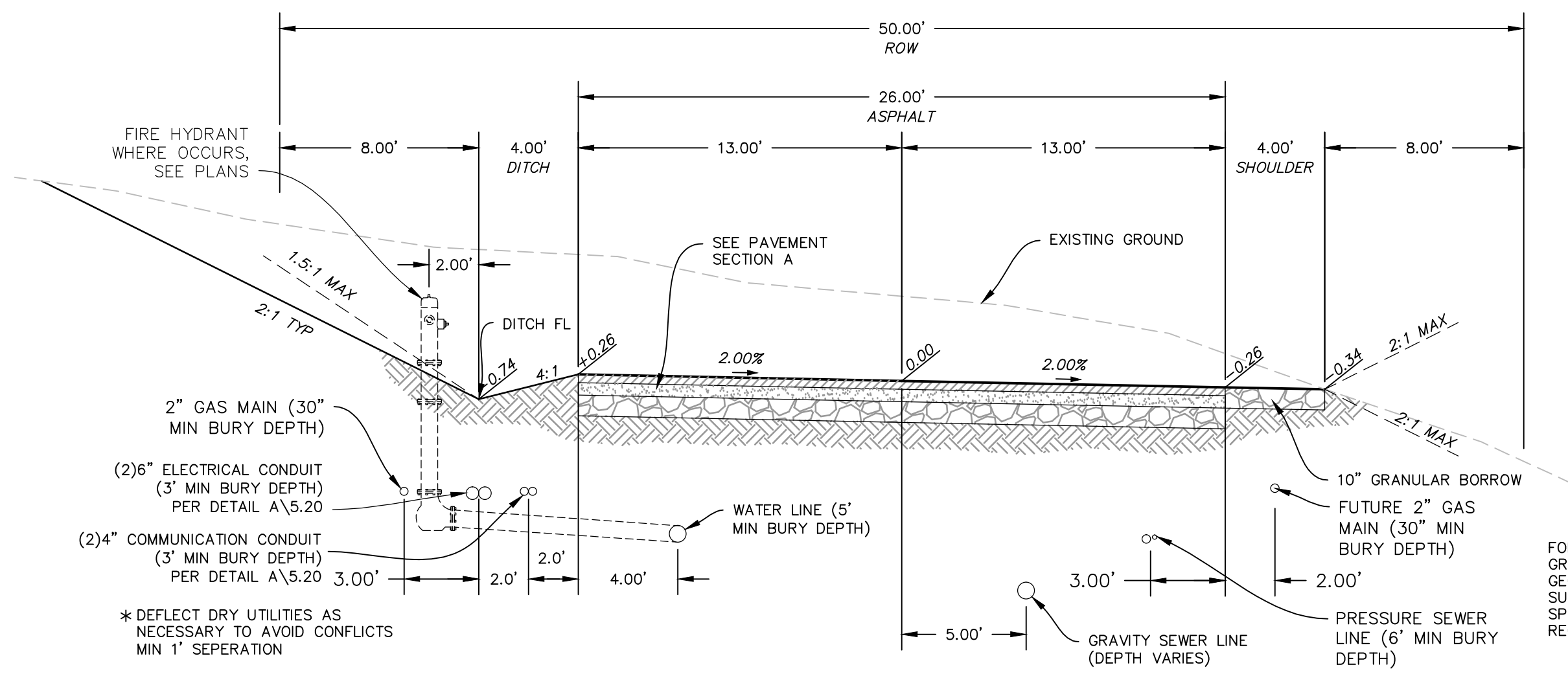


SCALE
 VERTICAL: 1" = 8'
 HORIZONTAL: 1" = 100'

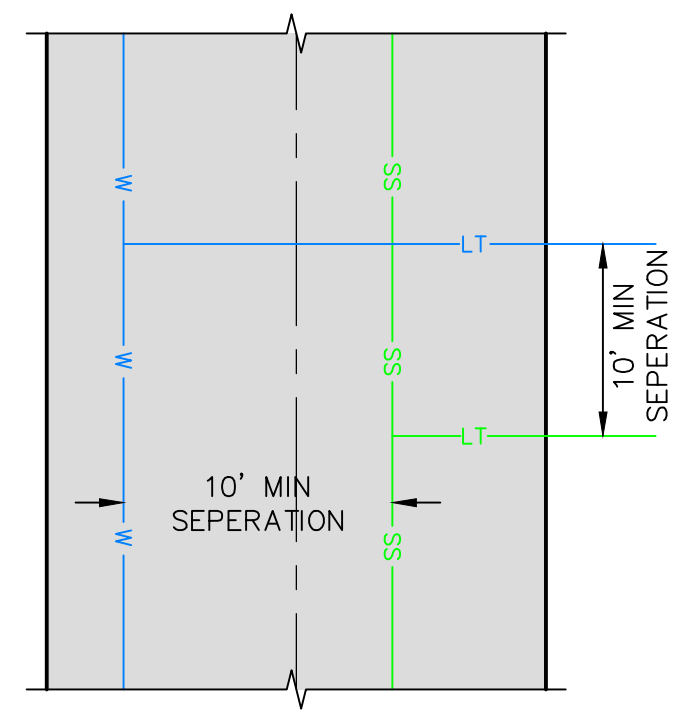
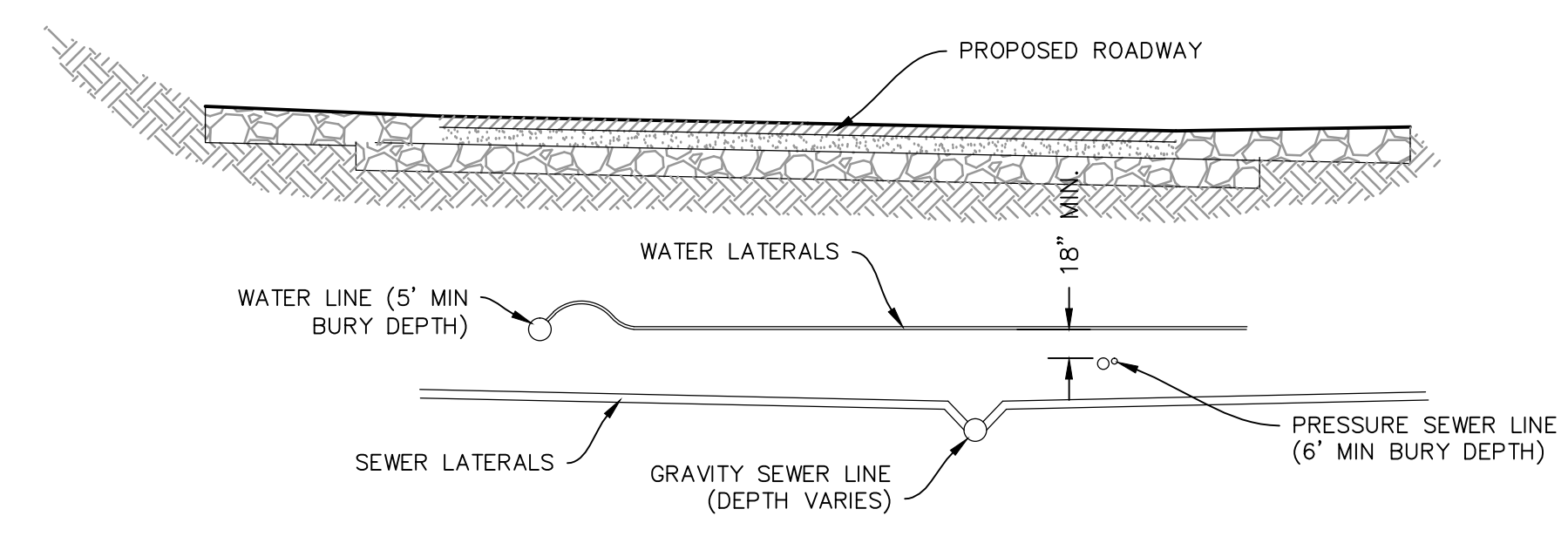
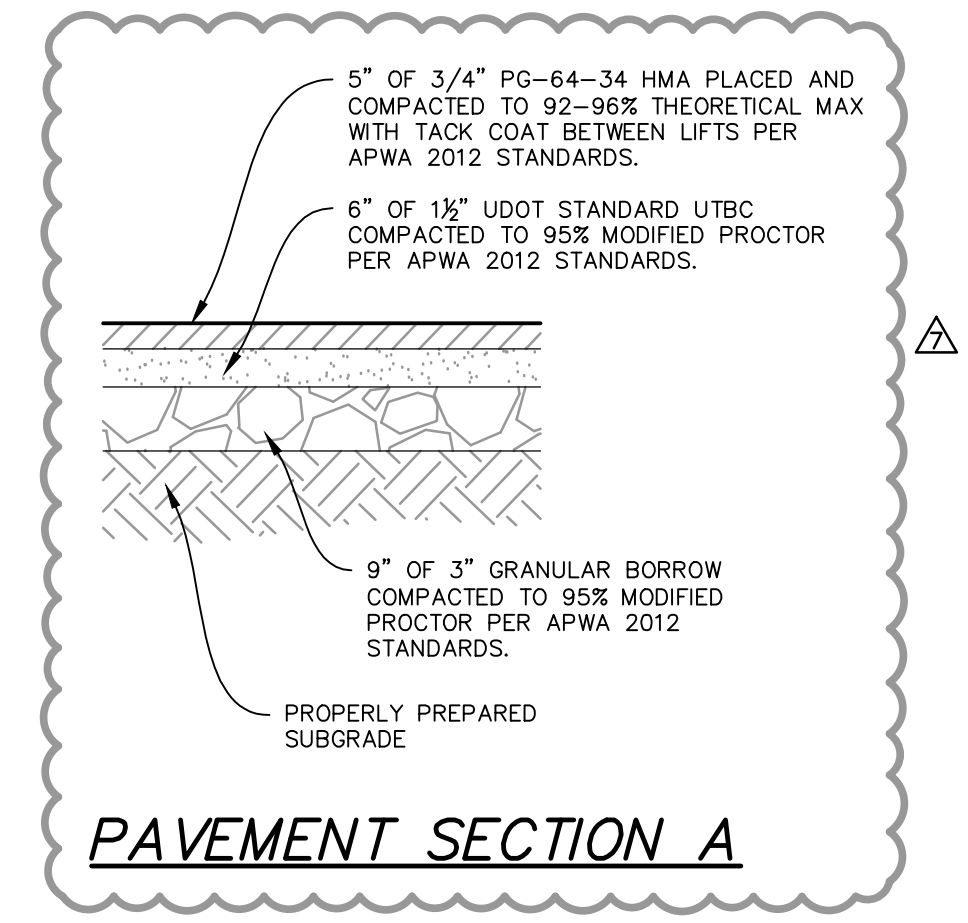
JOB NUMBER
SLB079306



CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans, and must be approved by the preparer of these plans.



TYPICAL ROADWAY SECTION A-A
 (50' RIGHT OF WAY SECTION)
 STA: 10+00.00 TO 18+14.86

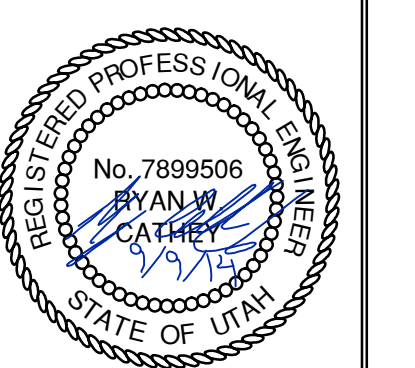


SECTION
PLAN
WATER AND SEWER SEPARATION DETAIL

NO.	BY	DATE	REVISIONS
1	RHC	8/27/2014	ADD ROW 1
2	RHC	8/27/2014	WEBB COUNTY REVIEW REVISIONS
3	RHC	8/27/2014	REV UTILITY UPDATES
4	RHC	8/27/2014	REV UTILITY UPDATES
5	RHC	8/27/2014	ELECTRICAL UPDATES

SUMMIT EDEN PHASE 1A
ROADWAY TYPICAL SECTIONS
 PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC
 DATE SUBMITTED: 01/07/2014

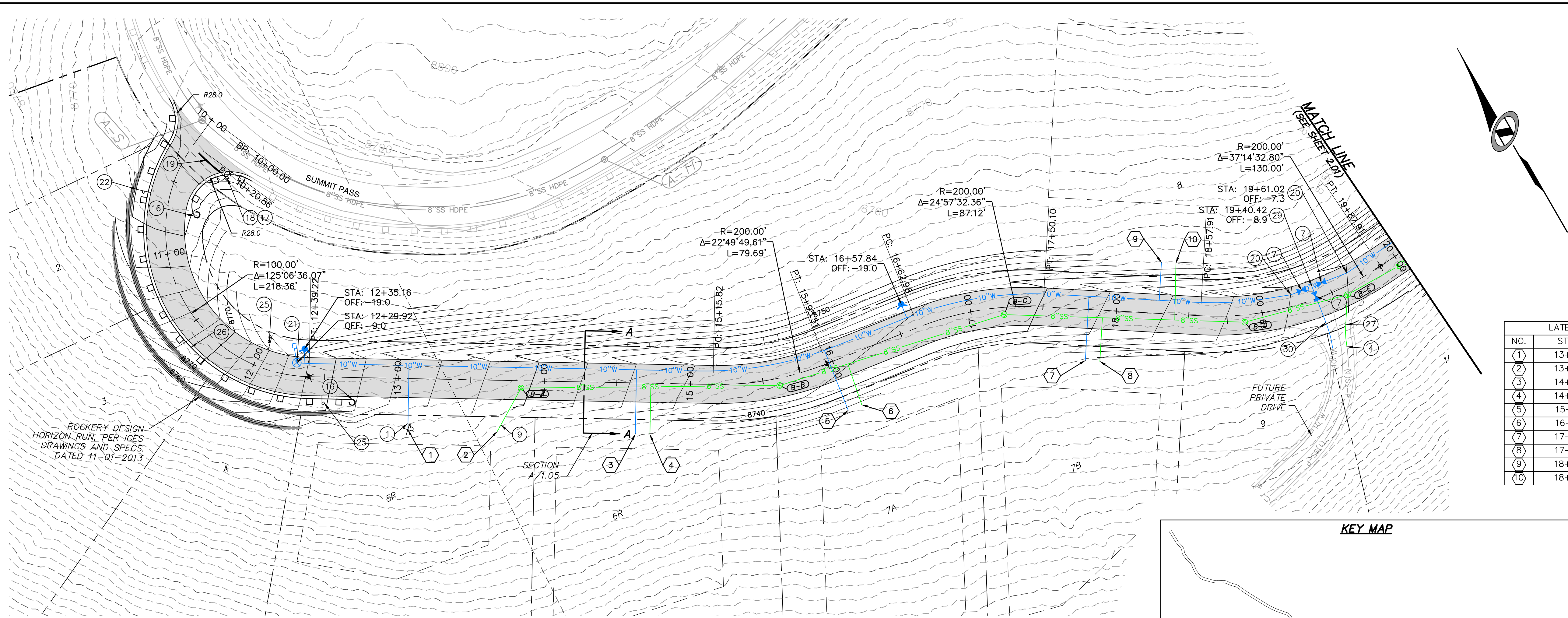
NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 MURRAY, UT 84107
 801.743.0300 TEL 801.743.0300 FAX
 WWW.NV5.COM



SHEET NUMBER
1.05
 SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = N/A
 JOB NUMBER
SLB079306

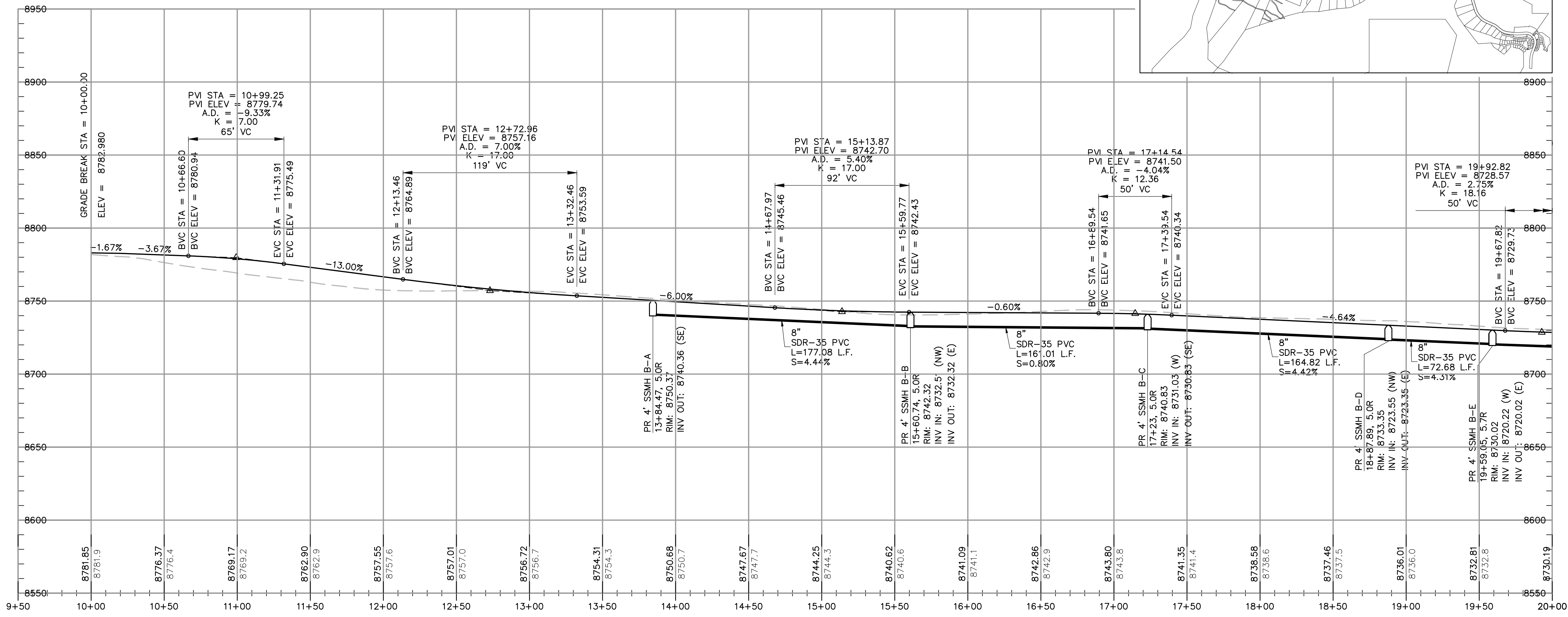
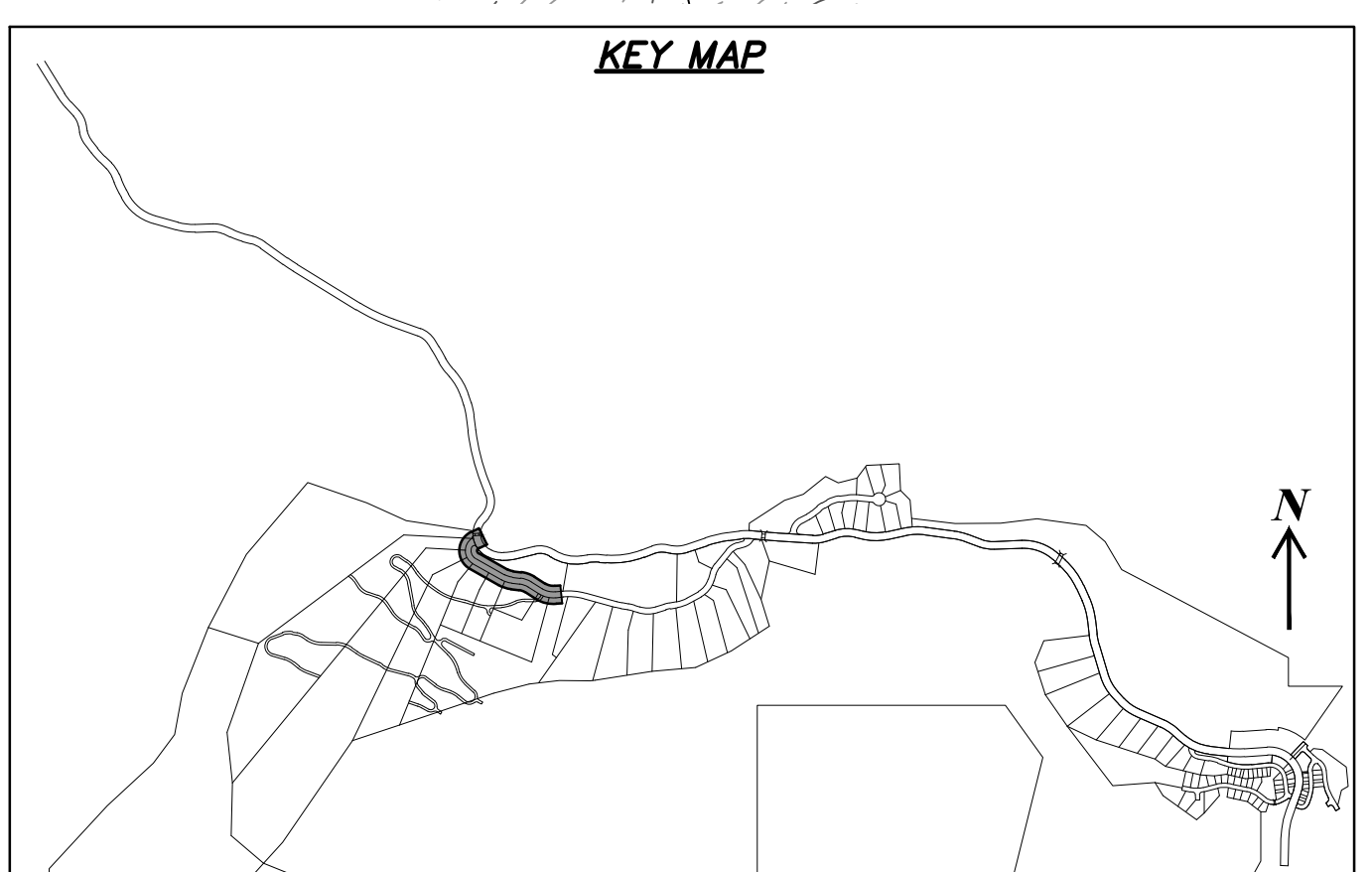
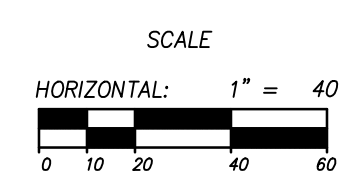


DATE: 8/26/14 TIME: 3:07:52 PM DRAWING NAME: P2000P.DWG
 SERVER: NONE PLOT SETUP: P2000-24x36 LAYOUT: P2000P
 PATH: N:\B07930\CAD\PHASE 1\VP\1-A_02.DWG TB PROJ MOR: RE



LATERAL LABEL		
NO.	STATION	OFFSET
1	13+07.56	35
2	13+68.80	35
3	14+63.26	35
4	14+73.26	35
5	15+97.31	35
6	16+07.31	35
7	17+81.00	35
8	17+91.00	35
9	18+29.20	-35
10	18+39.20	-35

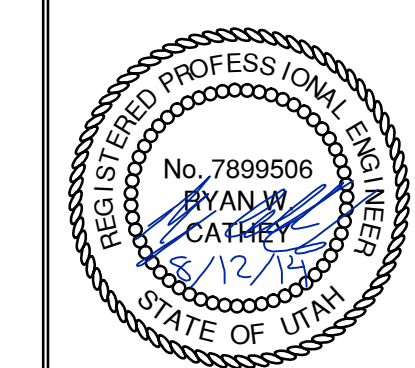
HORIZON RUN
 STA: 10+00.00 TO 20+00.00



NO.	BY	DATE	REVISIONS
1	RMC	8/27/2014	ADD/OM 1
2	RMC	8/27/2014	ADJUST COUNTY REVIEW REVISIONS
3	RMC	8/27/2014	COUNTY REVIEW
4	RMC	8/26/2014	MAINTENANCE UPDATES
5	RMC	8/26/2014	MAINTENANCE UPDATES

SUMMIT EDEN PHASE 1A
PLAN AND PROFILE
HORIZON RUN

NV5
 BEYOND ENGINEERING
 6217 SOUTH STATE STREET, SUITE 200
 MURRAY, UT 84107
 WWW.NV5.COM

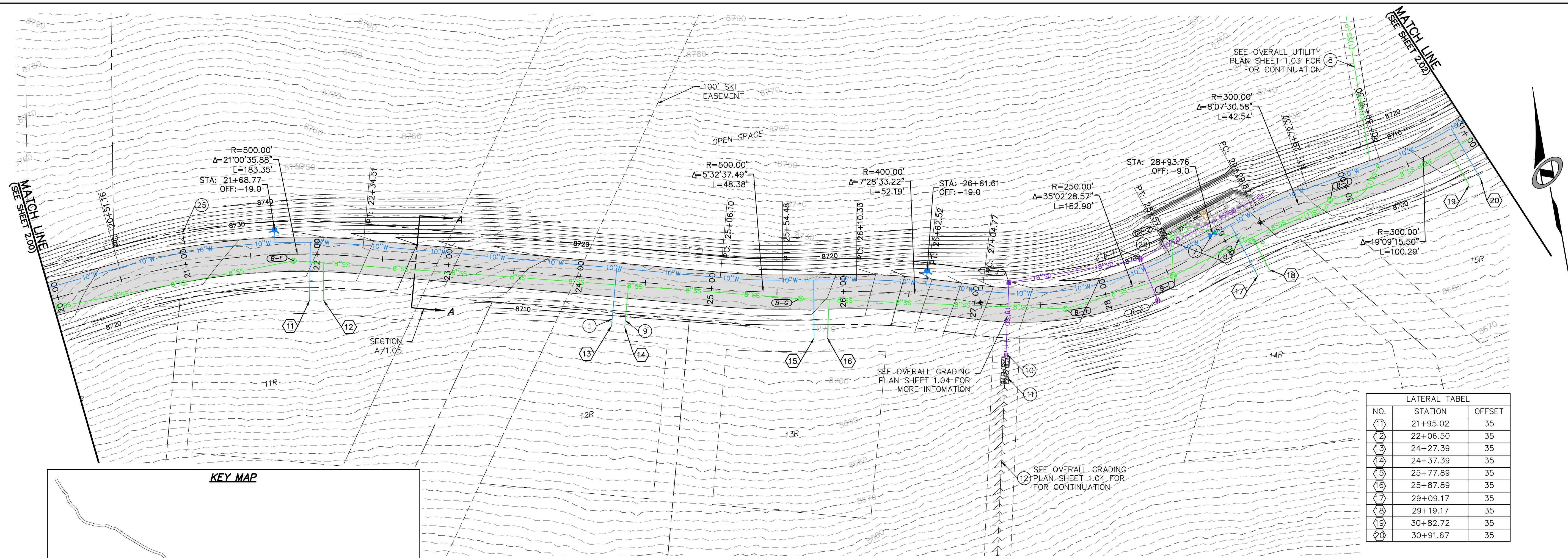


SHEET NUMBER
2.00
 SCALE
 VERTICAL: 1" = 40'
 HORIZONTAL: 1" = 40'
 JOB NUMBER
SLB079306

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

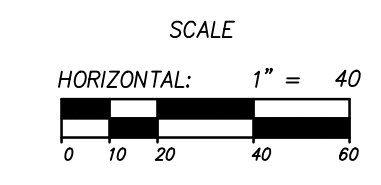
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans, and must be approved by the preparer of these plans.

BOWDEN
 XREFS:

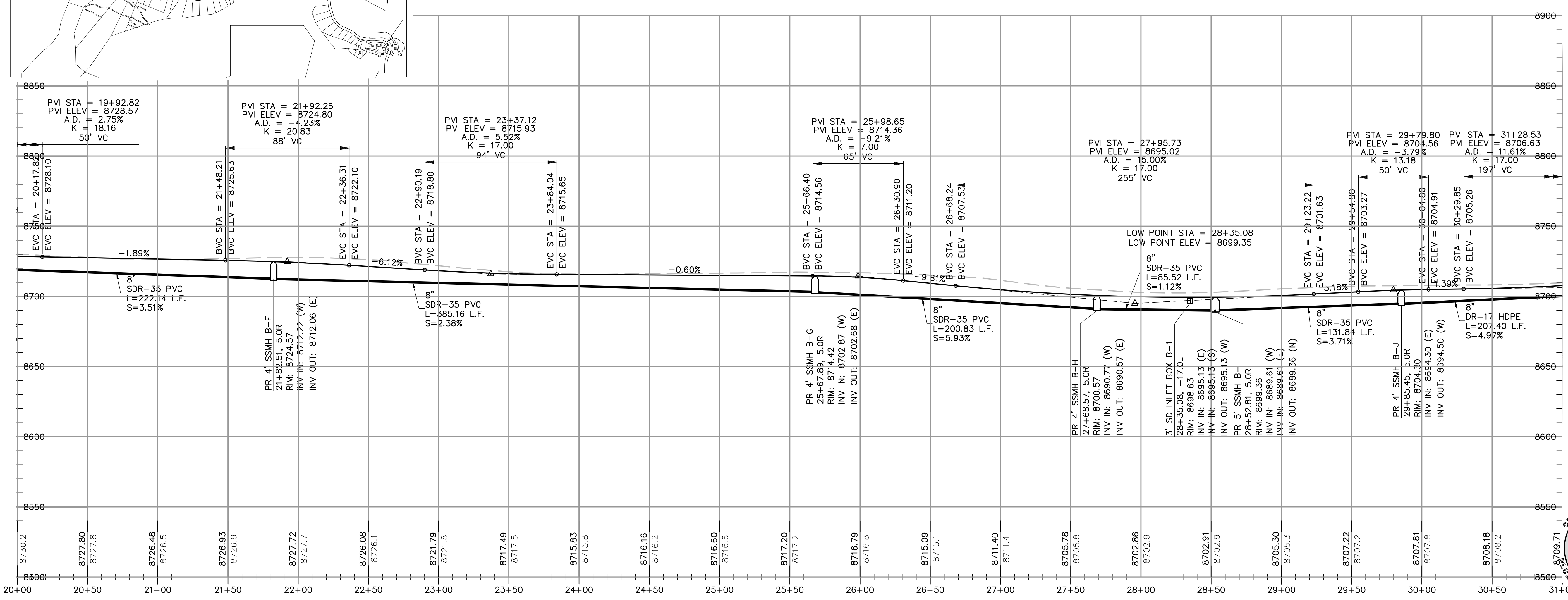


LATERAL TABLE

NO.	STATION	OFFSET
11	21+95.02	35
12	22+06.50	35
13	24+27.39	35
14	24+37.39	35
15	25+77.89	35
16	25+87.89	35
17	29+09.17	35
18	29+19.17	35
19	30+82.72	35
20	30+91.67	35



HORIZON RUN
 STA: 20+00.00 TO 31+00.00



REVISIONS

NO.	BY	DATE	REVISIONS
1	RMC	8/27/2014	ADDITION 1
2	RMC	8/27/2014	ADDITION 2
3	RMC	8/27/2014	ADDITION 3
4	RMC	8/27/2014	ADDITION 4
5	RMC	8/27/2014	ADDITION 5

CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

SUMMIT EDEN PHASE 1A
PLAN AND PROFILE
HORIZON RUN

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC

DATE SUBMITTED: 01/07/2014

NV5
 BEYOND ENGINEERING

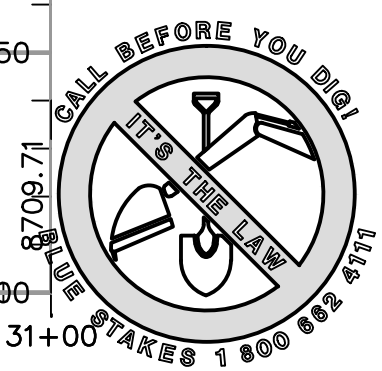
627 SOUTH STATE STREET, SUITE 200
 MURRAY, UT 84177
 WWW.NV5.COM

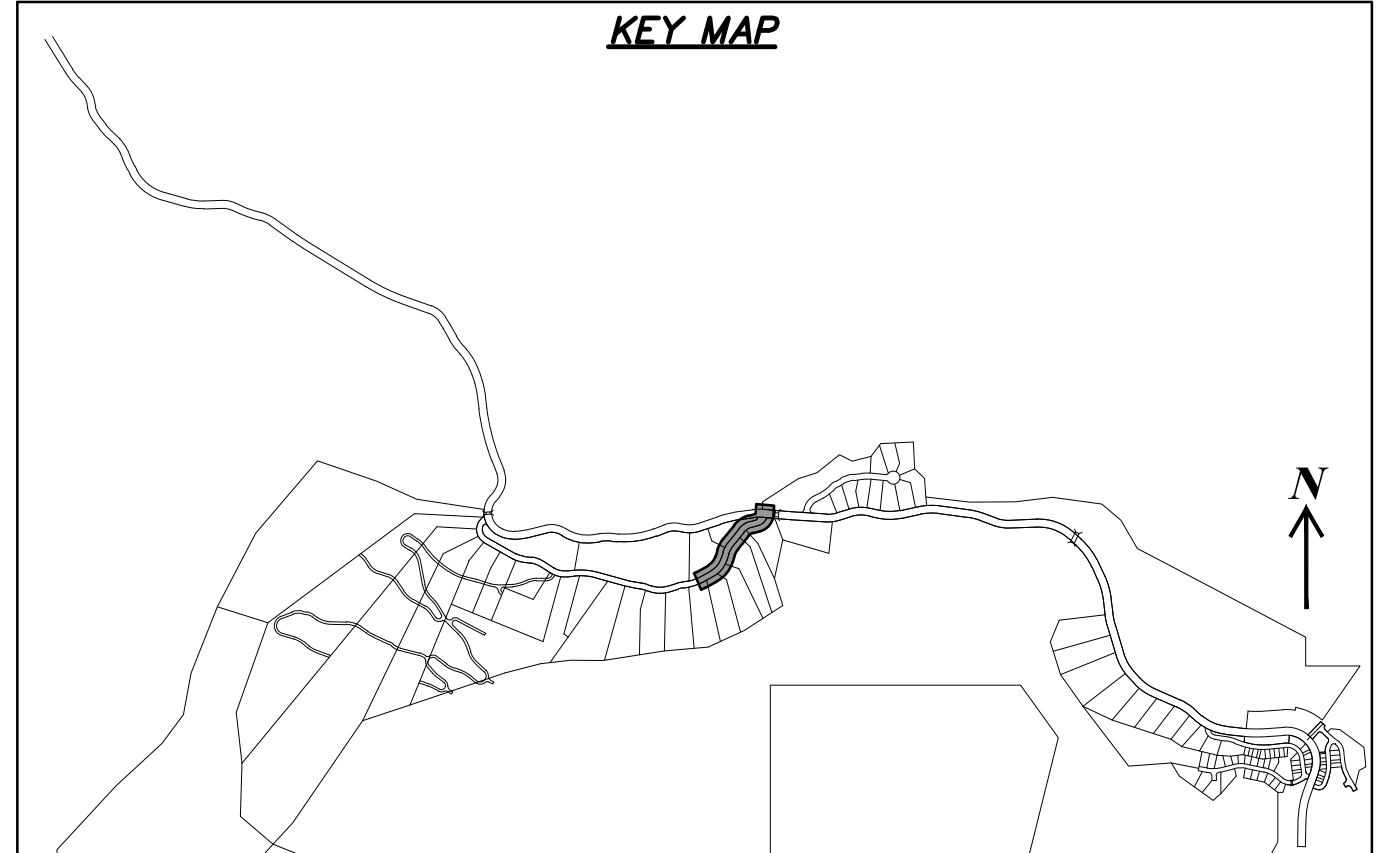
REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 STATE OF UTAH

SHEET NUMBER
2.01

SCALE
 VERTICAL: 1" = 40'
 HORIZONTAL: 1" = 40'

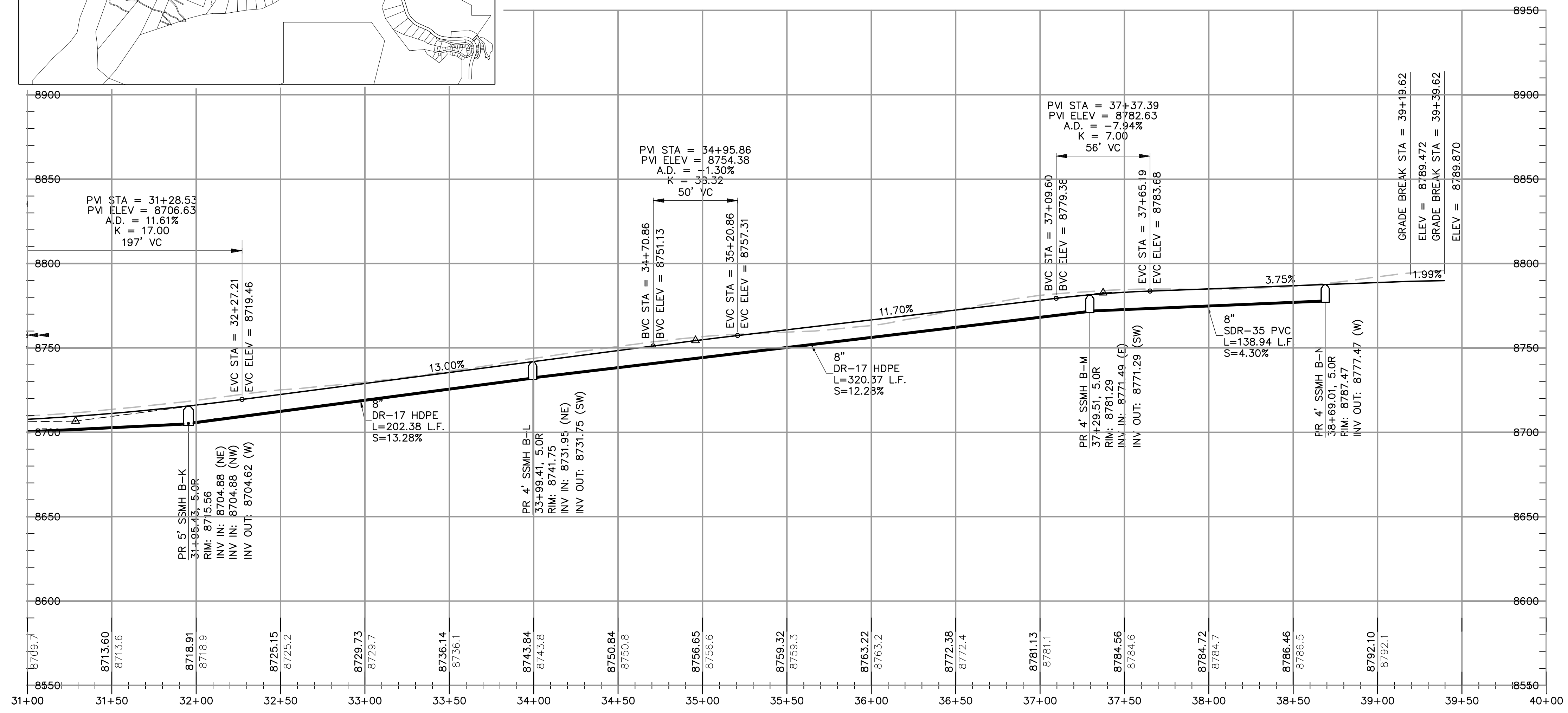
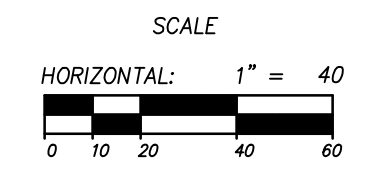
JOB NUMBER
SLB079306





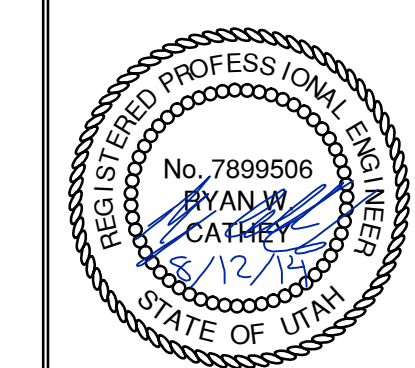
HORIZON RUN
 STA: 31+00.00 TO 39+39.62

LATERAL TABLE		
NO.	STATION	OFFSET
21	31+95.41	-35
22	32+14.78	35
23	32+24.78	35
24	33+30.20	-35
25	33+40.35	35
26	33+42.30	-35
27	33+48.86	35
28	34+57.42	35
29	34+69.54	35
30	35+54.12	-35
31	35+64.12	-35
32	36+23.05	35
33	36+33.05	35
34	38+38.55	35
35	38+45.38	35



NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADD/NOV 1
2	RMC	5/27/2014	SWEE COUNTY REVIEW REVISIONS
3	RMC	5/27/2014	SWEE COUNTY REVIEW REVISIONS
4	RMC	7/25/2014	COUNTY REVIEW
5	RMC	8/12/2014	FINAL/NOV UPDATES

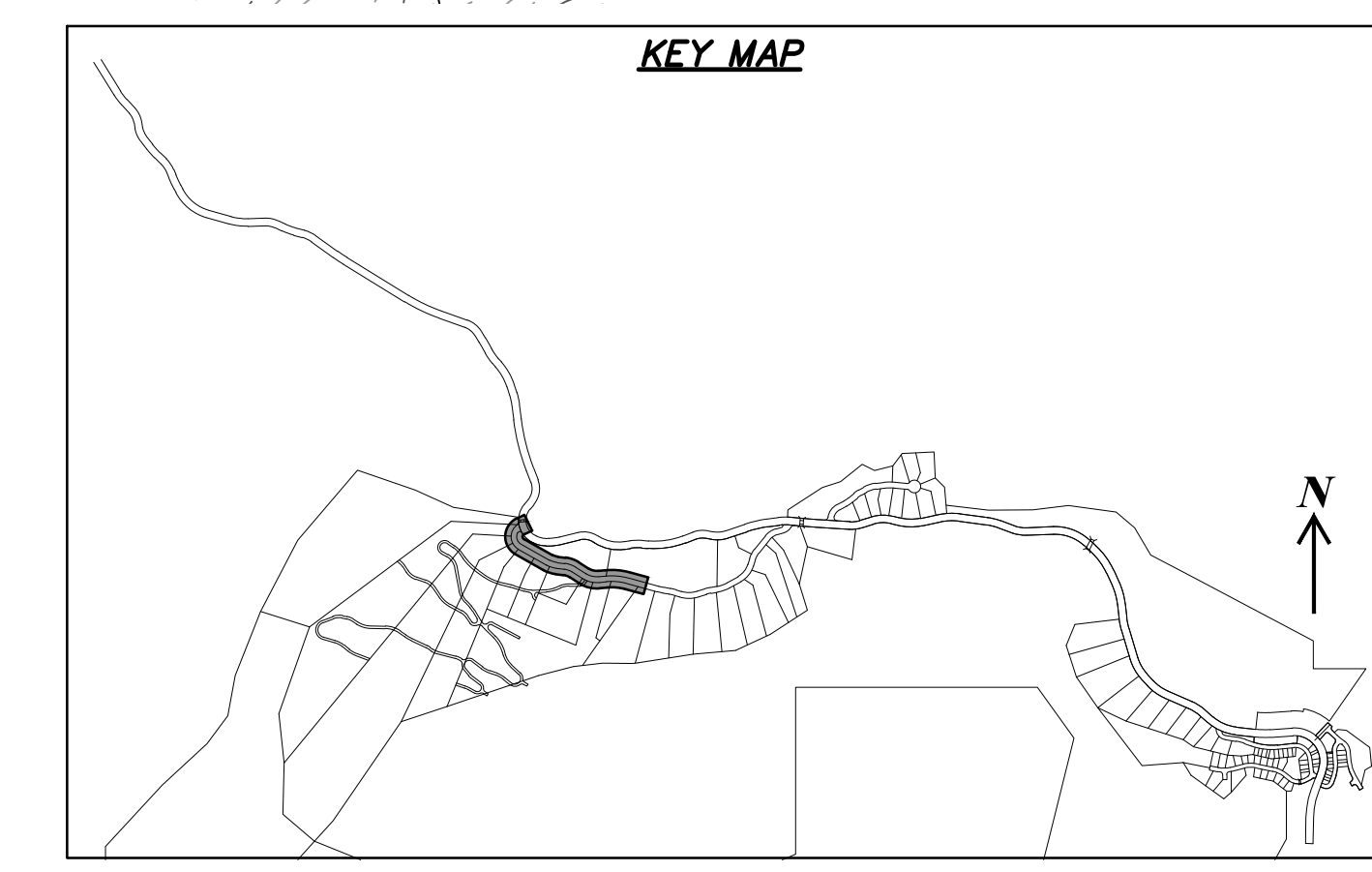
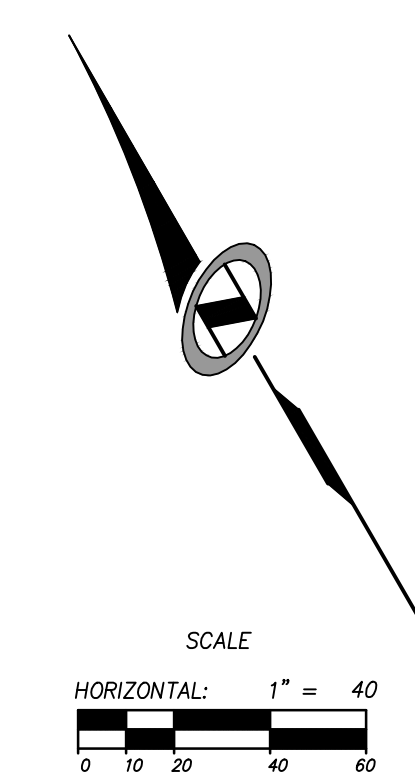
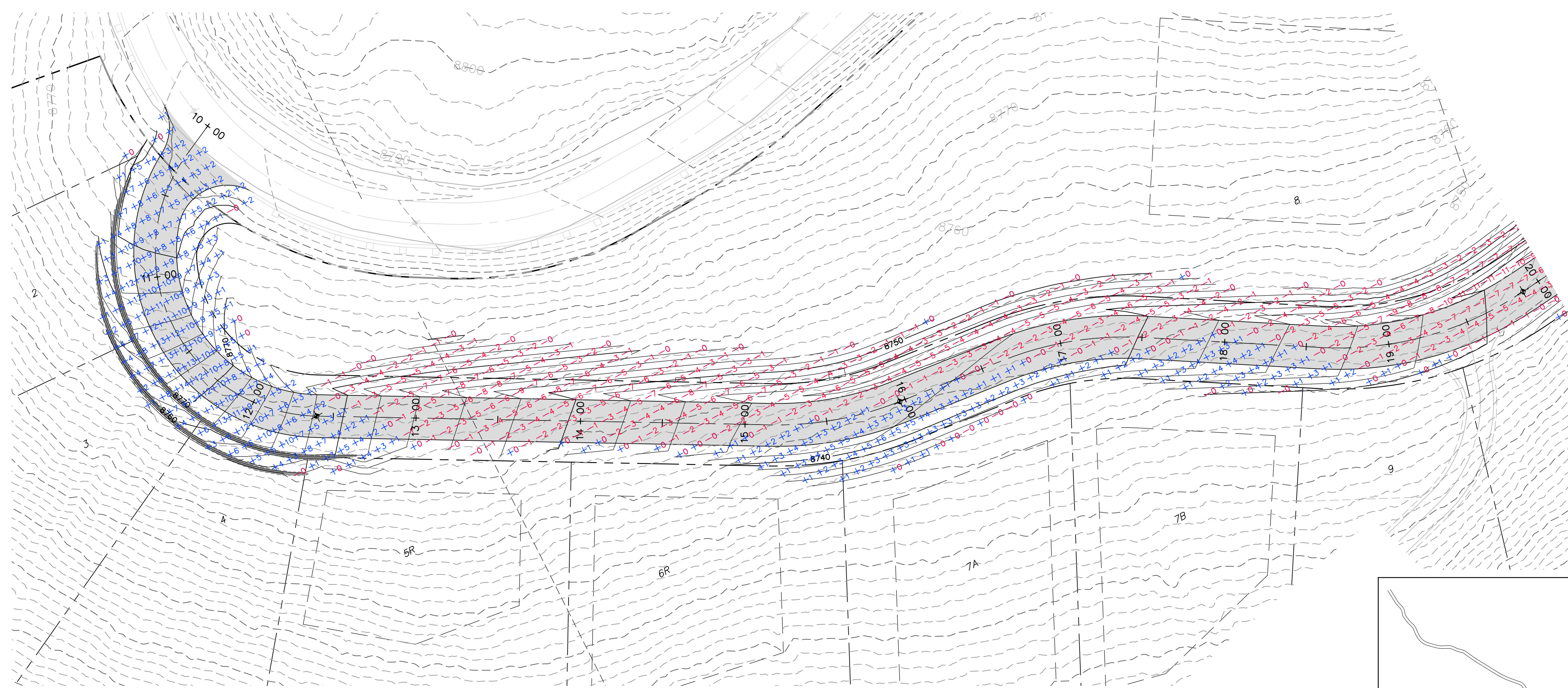
SUMMIT EDEN PHASE 1A
PLAN AND PROFILE
HORIZON RUN



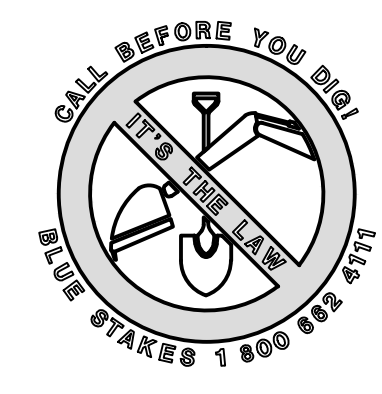
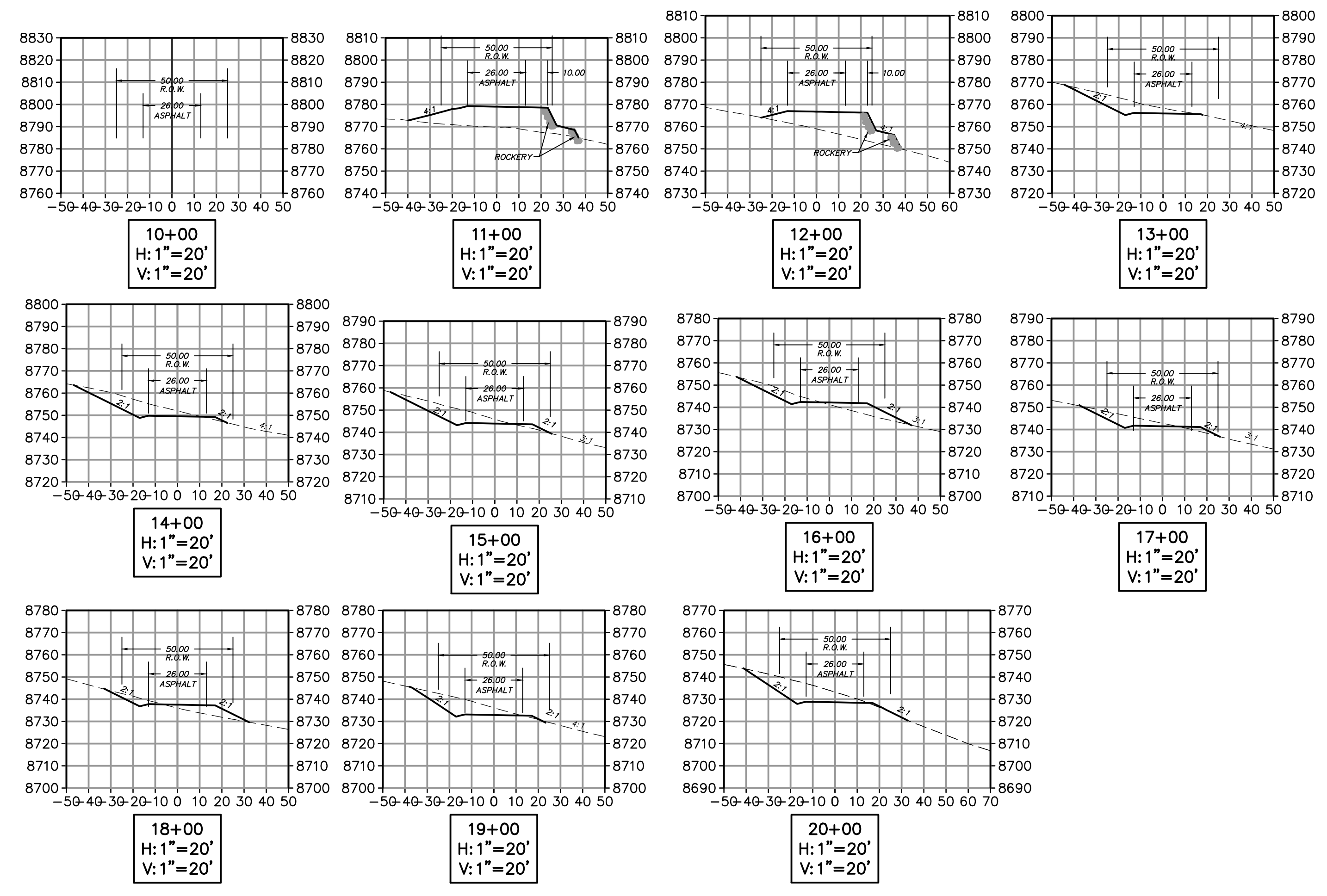
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans unless approved by the preparer of these plans.

DATE: 8/26/14 TIME: 4:12:17 PM DRAWING NAME: P23000.DWG
 SERVER: NONE PAGE SETUP: P23000-24x36 LAYOUT: P23000
 PATH: N:\SLB0793\CADD\PHASE 1\PHASE 1A_03000.dwg TB PROJ MOR: RE

BOWDEN
 XREFS:



HORIZON RUN
 STA: 10+00.00 TO 20+00.00

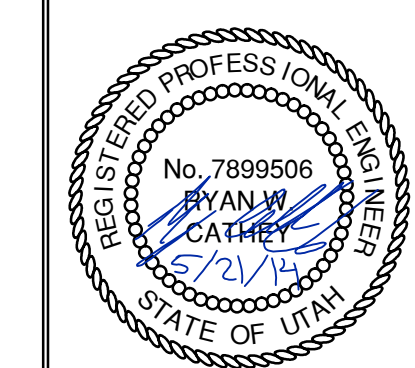


NO.	BY	DATE	REVISIONS
1	RMC	8/27/14	ADDENDUM 1
2	RMC	9/17/14	WEBB COUNTY REVIEW REVISIONS
3	RMC	9/22/14	FOR T. ESSLER

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

SUMMIT EDEN PHASE 1A
EARTHWORK AND SECTIONS
HORIZON RUN

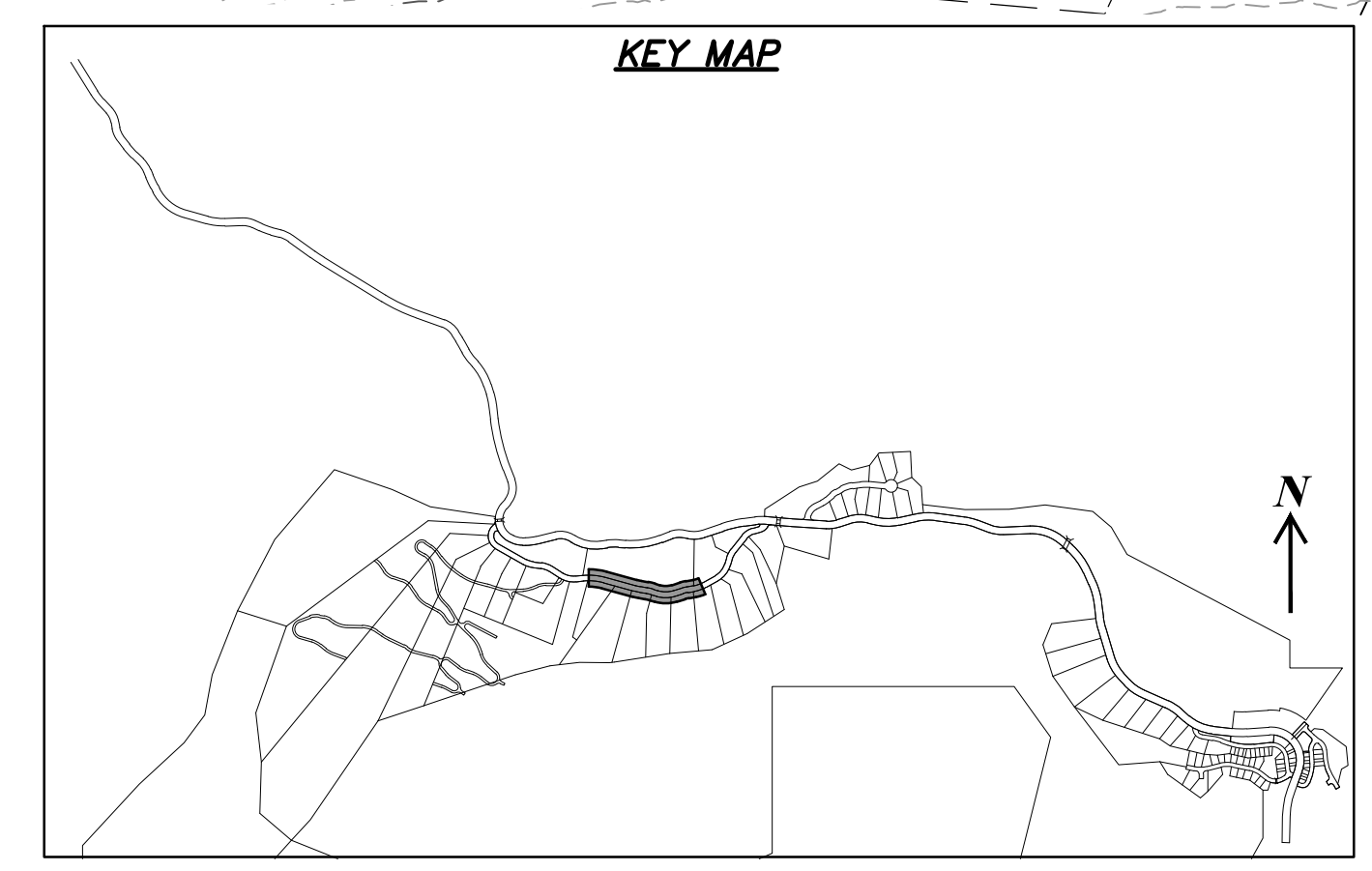
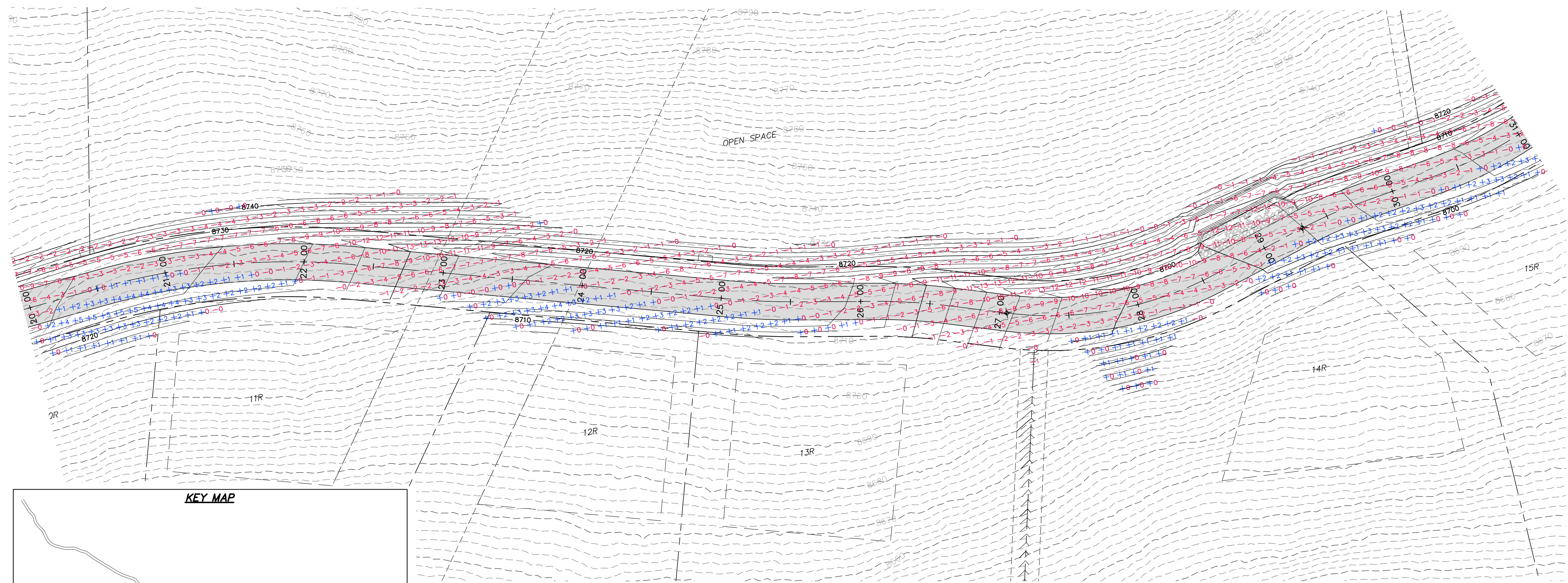
NV5
 BEYOND ENGINEERING
 527 SOUTH STATE STREET, SUITE 200
 801743.0000 TEL. 801743.0000 FAX
 MURRAY, UT 84107
 WWW.NV5.COM



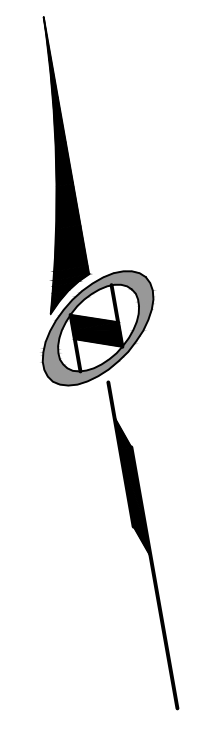
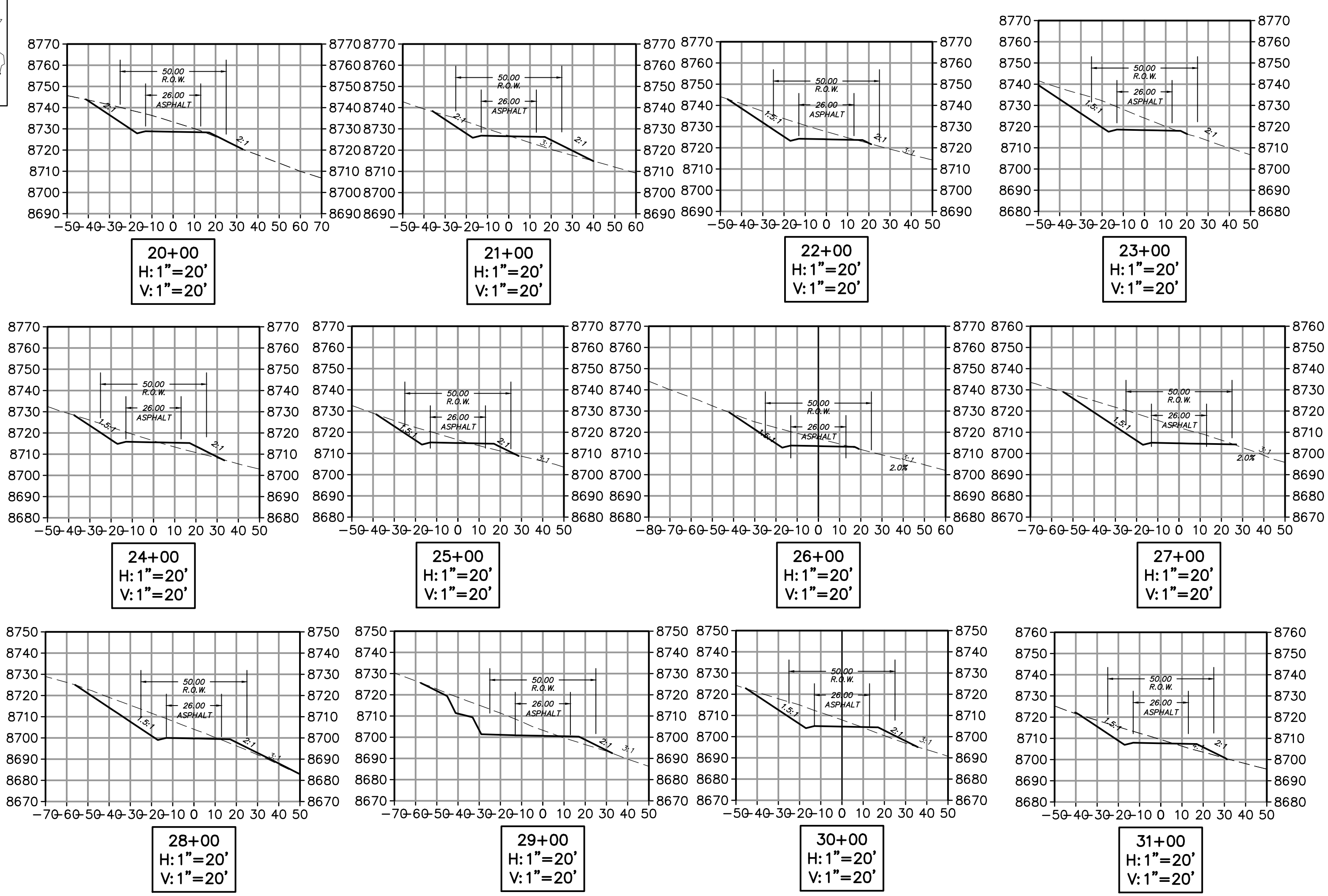
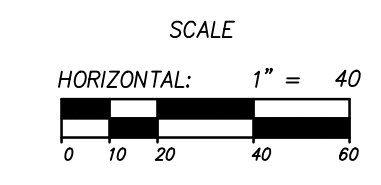
SHEET NUMBER
3.00
 SCALE
 VERTICAL: 1" = 40'
 HORIZONTAL: 1" = 40'
 JOB NUMBER
SLB079306

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

DATE: 8/26/14 TIME: 4:16:11 PM DRAWING NAME: P:\2014\DWG
 NONE PAGE SETUP: P:\2014\24-36 LAYOUT: P:\2014\DWG
 SERVER: N:\B0793\CAD\PHASE 1\DWG\1-A_03.DWG TB PROJ. MOR: RE



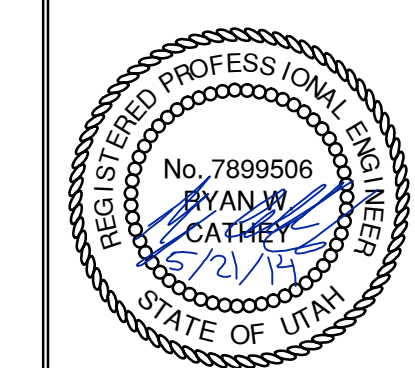
HORIZON RUN
 STA: 20+00.00 TO 31+00.00



NO.	BY	DATE	REVISIONS
1	RMC	8/27/2014	ADDendum 1
2	RMC	07/27/2014	WEBER COUNTY REVIEW REVISIONS
3	RMC	8/27/2014	FOR L. ESDEN

SUMMIT EDEN PHASE 1A
EARTHWORK AND SECTIONS
HORIZON RUN

NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 801743.0000 TEL. 801743.0000 FAX
 MURRAY, UT 84107
 WWW.NV5.COM



SHEET NUMBER
3.01

SCALE
 VERTICAL: 1" = 40'
 HORIZONTAL: 1" = 40'

JOB NUMBER
SLB079306

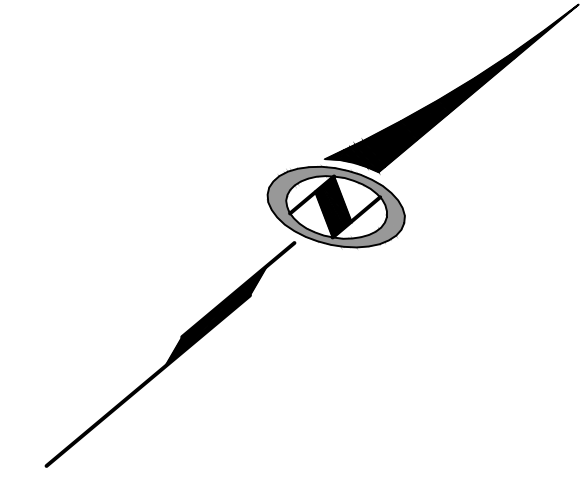
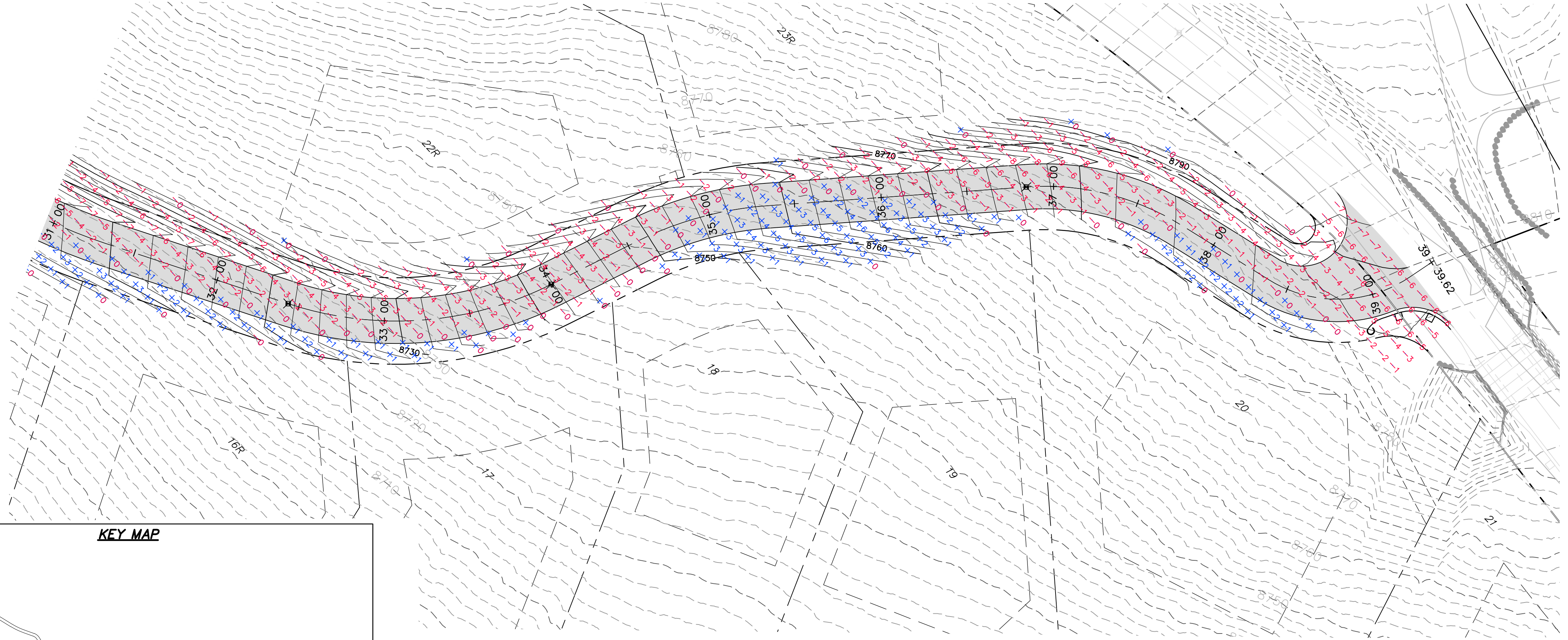
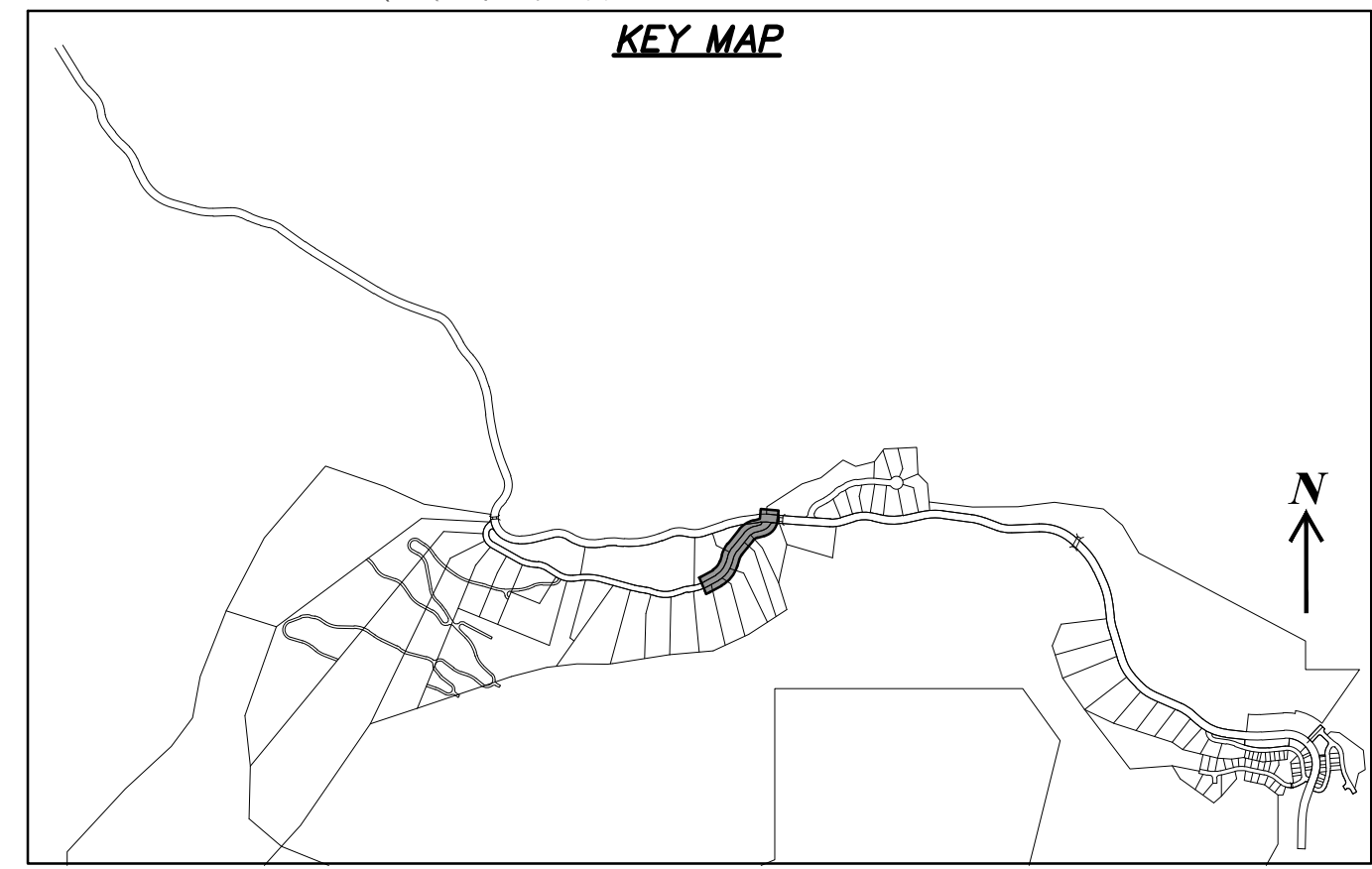
PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans unless such changes or uses are specifically approved by the engineer.

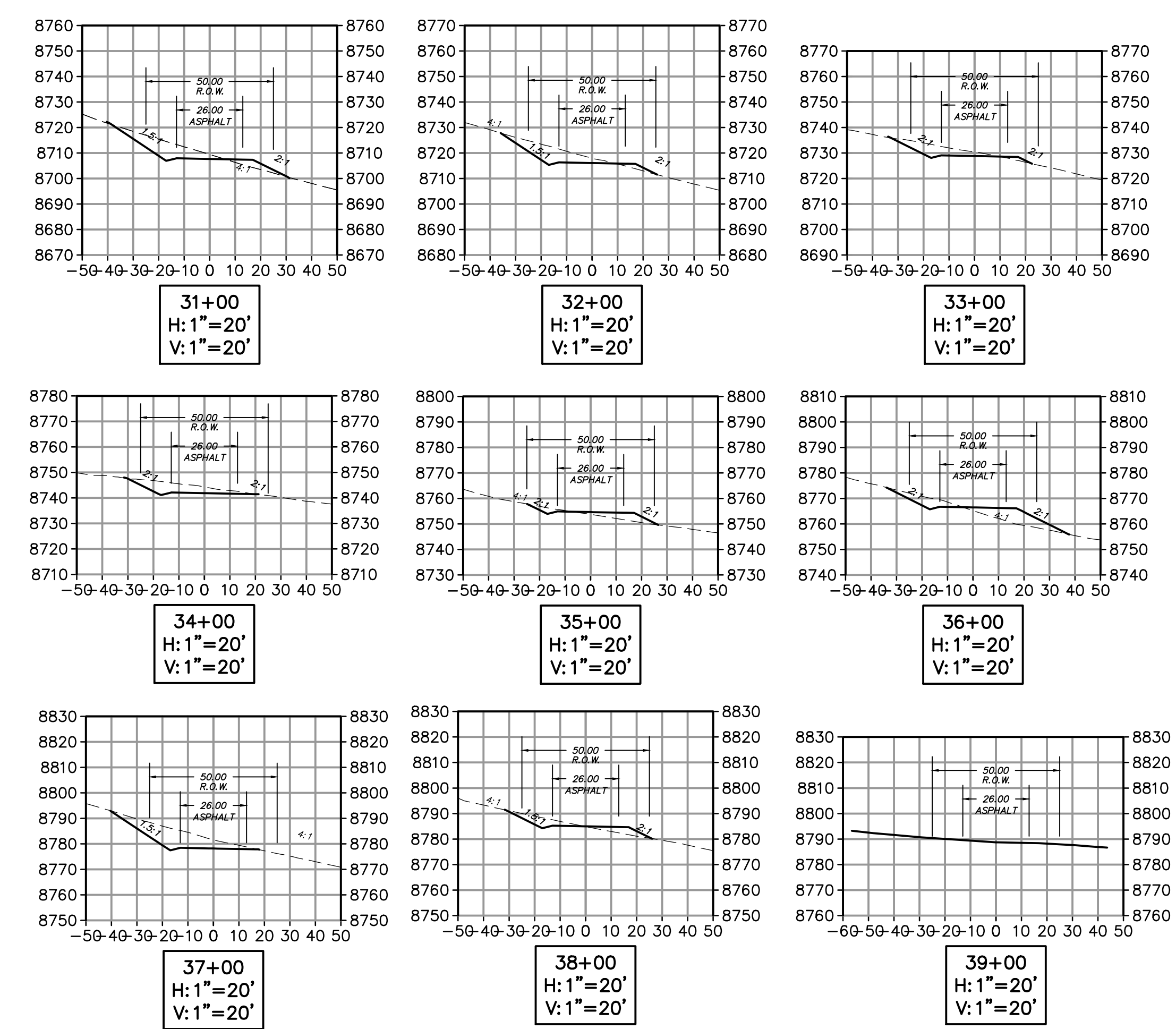
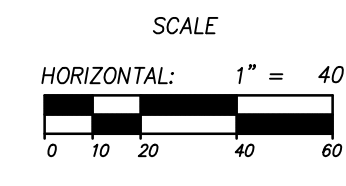


BOWDEN XREFS:

DATE: 8/26/14 TIME: 4:18:37 PM DRAWING NAME: P2302CF.DWG
 SERVER: NONE PAGE SETUP: P2302CF-24x36 LAYOUT: P2302CF
 PATH: N:\B0793\CAD\PHASE 1\DWG\1-A_030000.dwg TB PROJ MOR: RE

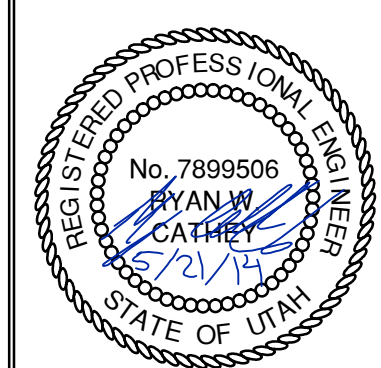


HORIZON RUN
 STA: 31+00.00 TO 39+39.62



SUMMIT EDEN PHASE 1A
EARTHWORK AND SECTIONS
HORIZON RUN

NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 801743.0000 TEL. 801743.0000 FAX
 MURRAY, UT 84107
 WWW.NV5.COM



SHEET NUMBER
3.02

SCALE
 VERTICAL: 1" = 40'
 HORIZONTAL: 1" = 40'

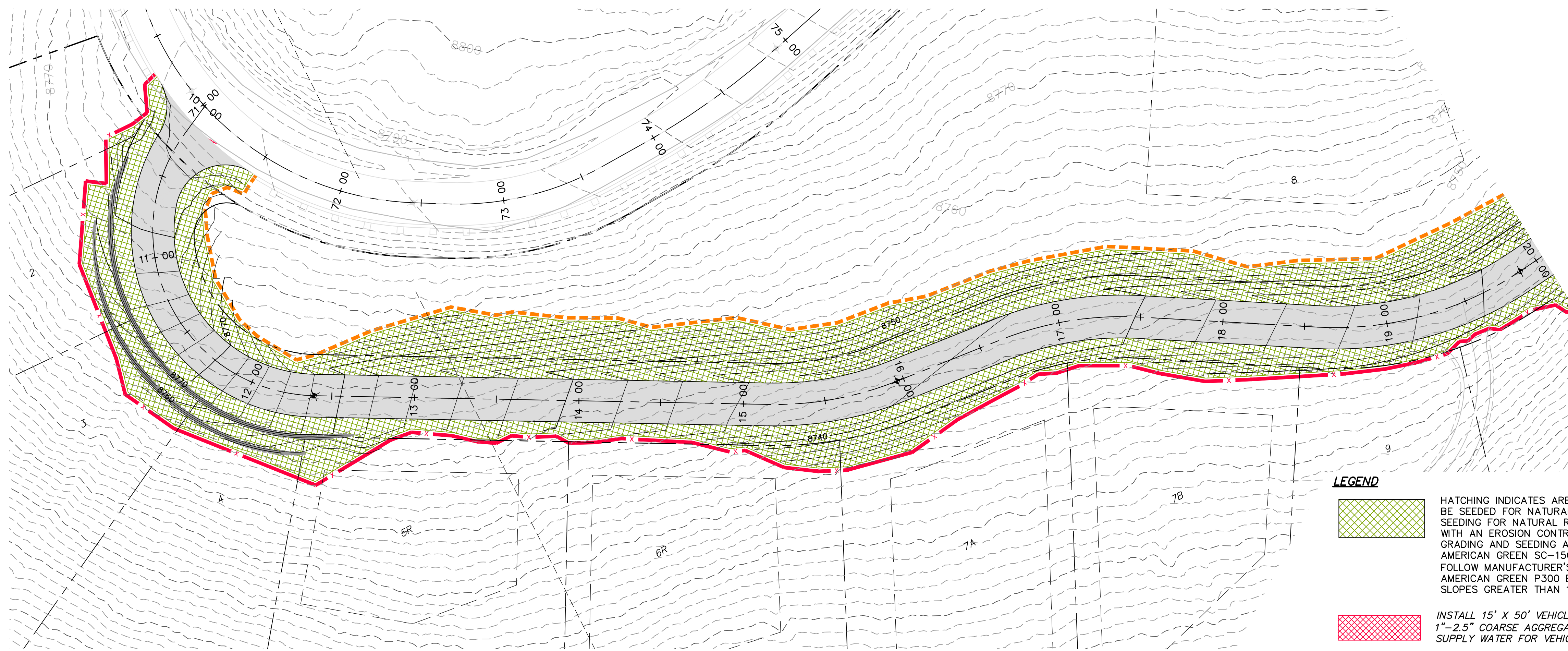
JOB NUMBER
SLB079306

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans, and must be approved by the preparer of these plans.

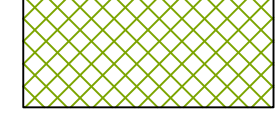
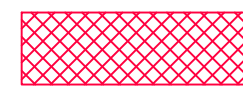
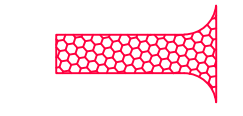





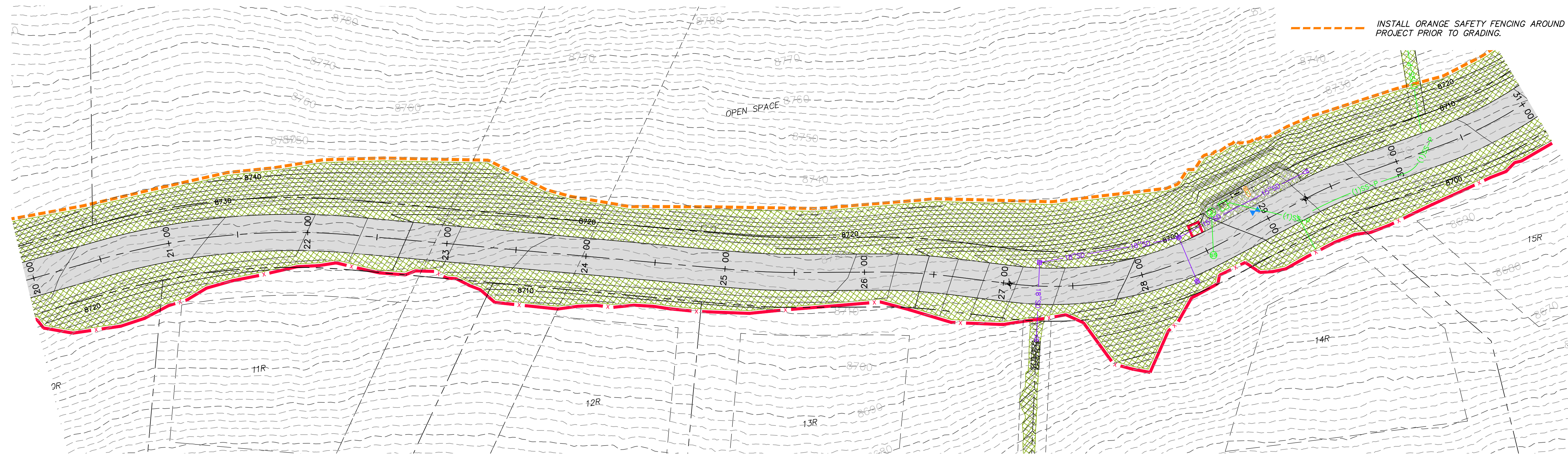
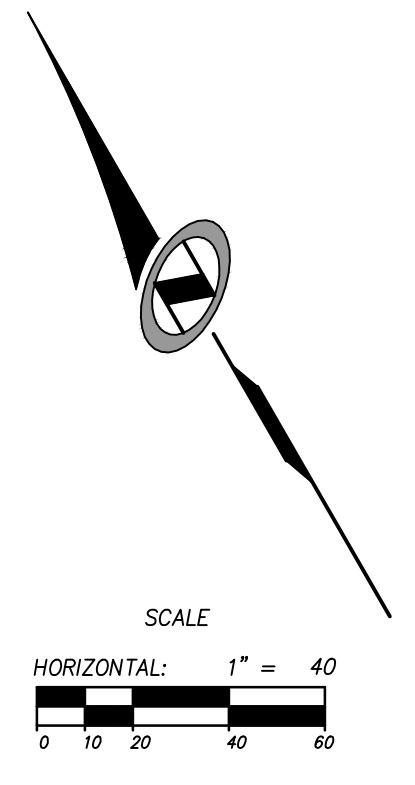
BOWDEN
 XREFS:



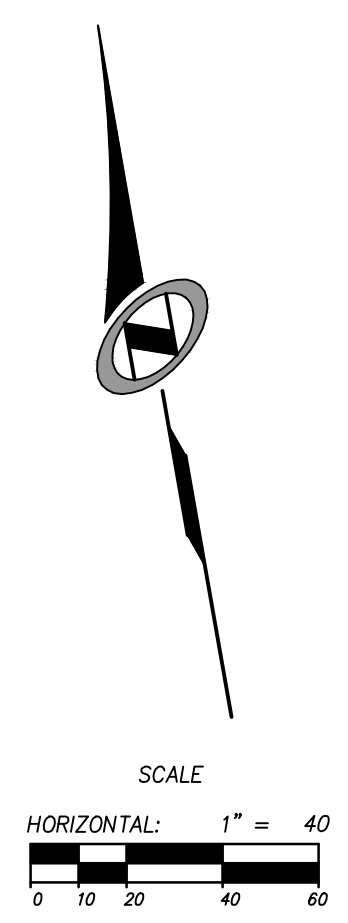
HORIZON RUN
 STA: 10+00.00 TO 20+00.00

LEGEND

-  HATCHING INDICATES AREAS TO RECEIVE 4" TOPSOIL AND TO BE SEED FOR NATURAL REVEGETATION. AREAS RECEIVING SEEDING FOR NATURAL REVEGETATION MUST BE COVERED WITH AN EROSION CONTROL BLANKET AFTER THE FINAL GRADING AND SEEDING ARE FINISHED. INSTALL NORTH AMERICAN GREEN SC-150 BLANKET OR APPROVED EQUAL. FOLLOW MANUFACTURER'S SPECIFICATIONS. INSTALL NORTH AMERICAN GREEN P300 EROSION CONTROL BLANKET ON ALL SLOPES GREATER THAN 1.5:1.
-  INSTALL 15' X 50' VEHICLE WASH DOWN AREA WITH 1"-2.5" COARSE AGGREGATE PLACED A MINIMUM 8" THICK. SUPPLY WATER FOR VEHICLE WASH DOWN.
-  STABILIZED CONSTRUCTION ENTRANCE FOR SITE INGRESS/EGRESS. IF ALTERNATE ACCESS POINTS ARE APPROVED BY OWNER, ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES WILL BE REQUIRED.
-  INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN.
-  INSTALL SILT FENCE ALONG DOWN GRADIENT LIMITS OF DISTURBANCE AS SHOWN ON PLAN.
-  INSTALL ORANGE SAFETY FENCING AROUND OUTER LIMITS OF PROJECT PRIOR TO GRADING.



HORIZON RUN
 STA: 20+00.00 TO 31+00.00



NO.	BY	DATE	REVISIONS
1	RMC	8/27/2014	ADDendum 1
2	RMC	10/27/2014	WEBB COUNTY REVIEW REVISIONS
3	RMC	12/22/2014	FOR L. ESSLER

SUMMIT EDEN PHASE 1A
EROSION CONTROL PLAN
HORIZON RUN

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC

DATE SUBMITTED: 01/07/2014

NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 MURRAY, UT 84107
 801.743.0300 TEL. 801.743.0300 FAX
 WWW.NV5.COM

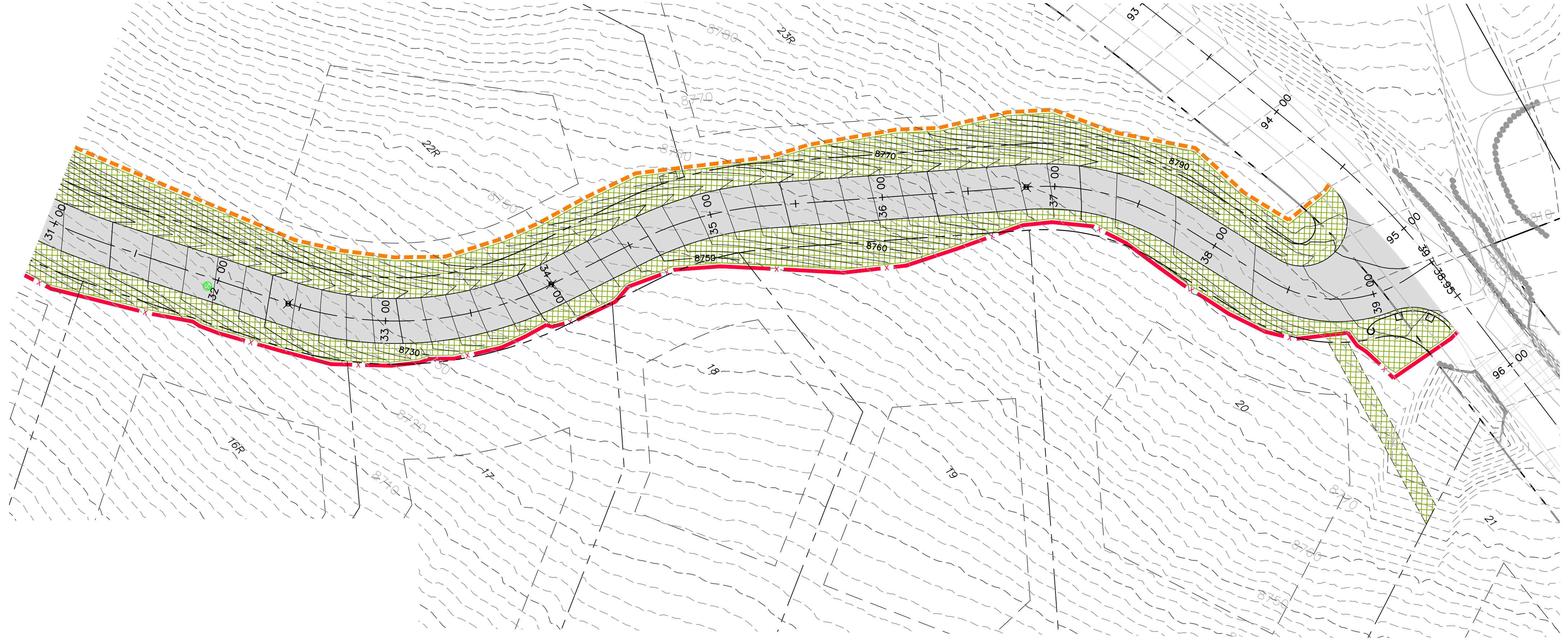
REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 2/21/14
 STATE OF UTAH

SHEET NUMBER
4.00

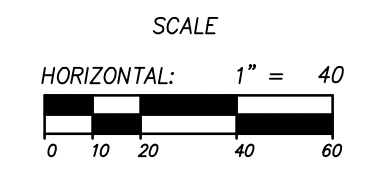
SCALE
 VERTICAL: 1" = 40'
 HORIZONTAL: 1" = 40'

JOB NUMBER
SLB079306

The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans unless such changes or uses are specifically approved by the engineer.



HORIZON RUN
 STA: 31+00.00 TO 39+39.62

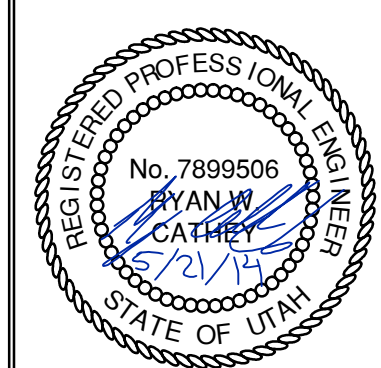


NO.	BY	DATE	REVISIONS
1	RWC	8/27/2013	ADD/NOAM 1
2	RWC	07/28/2014	WEBER COUNTY REVIEW REVISIONS
3	RWC	8/27/2014	FOR U. DESIGN

The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

SUMMIT EDEN PHASE 1A
EROSION CONTROL PLAN
HORIZON RUN

NV5
 BEYOND ENGINEERING
 627 SOUTH STATE STREET, SUITE 200
 801743.000 TEL 801743.000 FAX
 MURRAY, UT 84107
 WWW.NV5.COM



SHEET NUMBER
4.01
 SCALE
 VERTICAL: 1" = 40'
 HORIZONTAL: 1" = 40'
 JOB NUMBER
SLB079306

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

CAUTION

3' X 3' LID
WT. 990 #

3' X 3' RISER

3' X 3' BASE

HEIGHT	WEIGHTS	
	BASE	RISER
6"		550 #
1'		1,099 #
2'		2,198 #
3'	3,171 #	3,297 #
4'	4,796 #	4,207 #
5'	5,896 #	5,259 #
6'	6,994 #	7,894 #

NOTES:
 1. Vault design complies with ASTM C-857 and C-858 with less than 2" of earth cover and an AHSIFTO HS-20 loading.
 2. Lifting insert type and location may change without notice.

Oldcastle Precast
 801 West 12th Street, Ogden, Utah 84404
 Phone: 801-399-1171 Fax: 801-392-7849
 www.oldcastleprecast.com

3' x 3' Basin
 FILE NAME: 2100C3X3CB000
 ISSUE DATE: 1/08
 Copyright © 2008

3' x 3' Catch Basin
 Bases, Risers and lid
 Copyright © 2008

3'x3' CATCH BASIN LID
ELEVATION VIEW

3'x3' CATCH BASIN LID
PLAN VIEW
31" OPENING

3'x3' CATCH BASIN LID
PLAN VIEW
2'x3' OPENING CENTER/OFFSET

3'x3' CATCH BASIN RISER
ELEVATION VIEW

3'x3' CATCH BASIN BASE
ELEVATION VIEW

3'x3' CATCH BASIN BASE / RISER
PLAN VIEW

KNOCKOUT TABLE

BASE HEIGHT	DIA.
3'	30"
4'	36"
5'	36"
6'	36"

KNOCKOUTS ARE 4" DEEP

Oldcastle Precast
 801 West 12th Street, Ogden, Utah 84404
 Phone: 801-399-1171 Fax: 801-392-7849
 www.oldcastleprecast.com

3' x 3' Basin
 FILE NAME: 2100C3X3CB000
 ISSUE DATE: 1/08
 Copyright © 2008

3' x 3' Catch Basin
 Bases, risers and lid
 Copyright © 2008

Oldcastle Precast
 801 West 12th Street, Ogden, Utah 84404
 Phone: 801-399-1171 Fax: 801-392-7849
 www.oldcastleprecast.com

Flared End
 FILE NAME: 2100PERNDFLARE
 ISSUE DATE: 5/2008
 Copyright © 2008

Flared End Section
 for Round Pipe
 Copyright © 2008

Diag.	Slope	X	Y	A	B	C	E	F	G
12"	2.4 : 1	4"	24"	48%	72%	24"	2"		
15"	2.4 : 1	6"	27"	46%	73%	30"	2 1/2"		
18"	2.3 : 1	9"	27"	46%	73%	36"	2 1/2"		
24"	2.5 : 1	9 1/2"	43 1/2"	30"	73%	48"	3"		
30"	2.5 : 1	12"	54"	19%	73%	60"	3 1/2"		
36"	2.5 : 1	15"	63"	34%	97%	72"	4"		
42"	2.5 : 1	21"	63"	35"	98"	78"	4 1/2"		
48"	2.5 : 1	24"	72"	26"	98"	84"	5"		

I-3742 Drop Inlet

Oldcastle Precast
 801 West 12th Street, Ogden, Utah 84404
 Phone: 801-399-1171 Fax: 801-392-7849
 www.oldcastleprecast.com

I-3742
 Est. weight 582 lbs.
 D&L Supply

D&L SUPPLY
 D&L Foundry
 P.O. Box 1313
 Moses Lake, WA 98837
 Phone: (509) 765-7952
 Fax: (509) 765-8124
 Scale: 1" = 17 1/2"
 Sheet Number: 1
 Total Sheets: 1

SINGLE GRATE

Oldcastle Precast
 801 West 12th Street, Ogden, Utah 84404
 Phone: 801-399-1171 Fax: 801-392-7849
 www.oldcastleprecast.com

Catch basin
 Plan 315
 Sheet 1 of 2

SUMMIT EDEN PHASE 1A
STORM DRAIN DETAILS

REVISIONS:
 NO. BY DATE
 1 RHC 8/27/13
 2 RHC 1/25/14

ADDENDUM 1
 WEBER COUNTY REVIEW REVISIONS

DATE SUBMITTED: 01/07/2014

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC

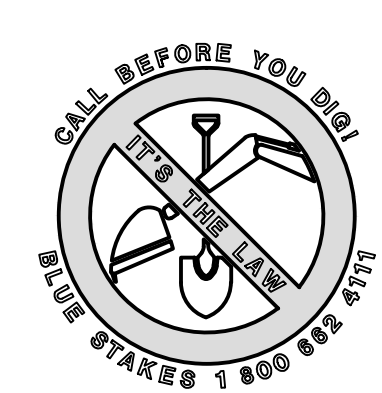
NV5
 BEYOND ENGINEERING
 527 SOUTH STATE STREET, SUITE 200
 MURRAY, UT 84107
 801.743.0300 TEL. 801.743.0300 FAX
 WWW.NV5.COM

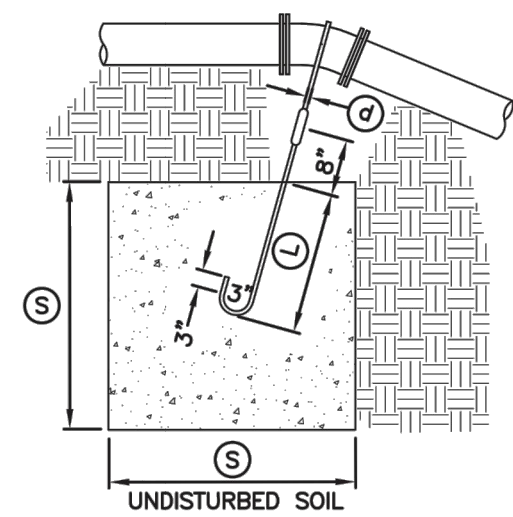
REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 1/5/14
 STATE OF UTAH

SHEET NUMBER
5.00

SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = N/A

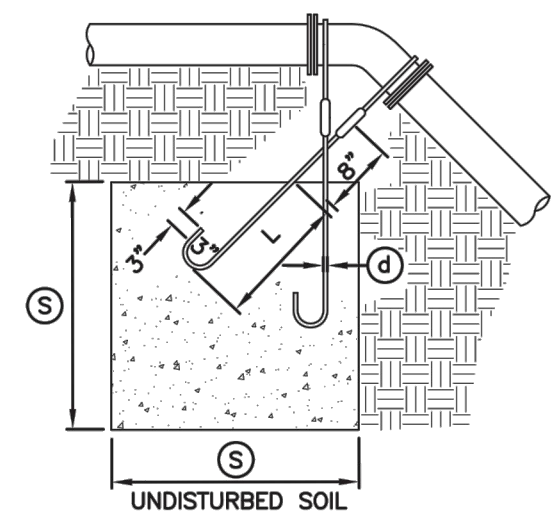
JOB NUMBER
SLB079306





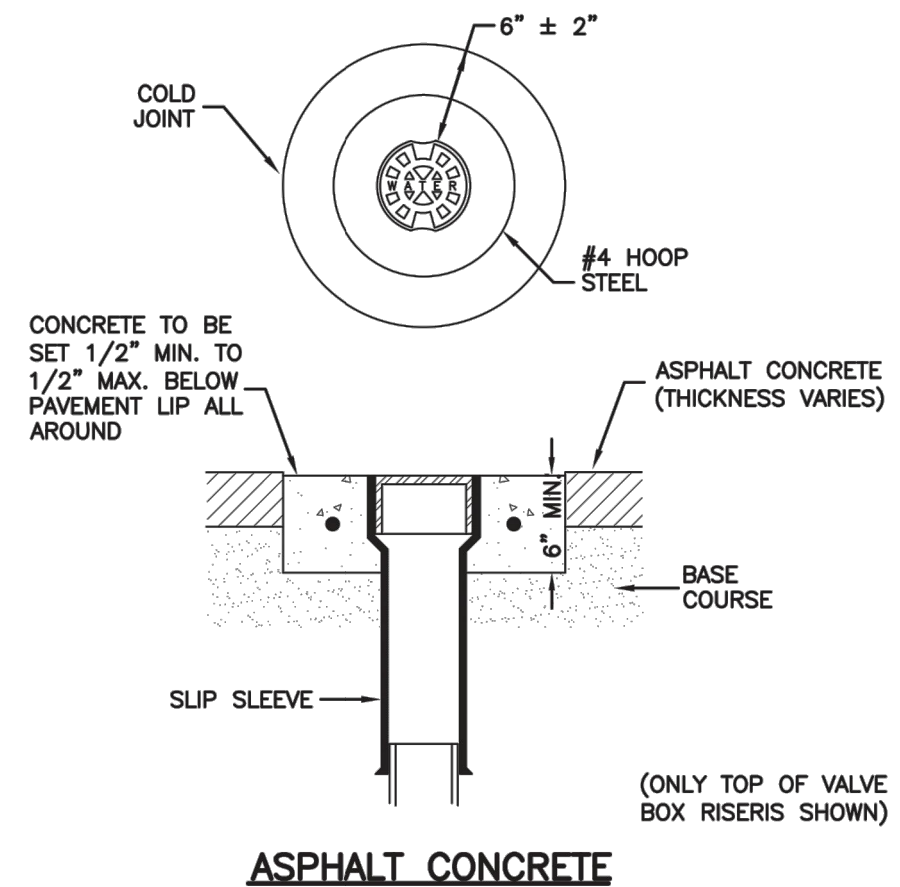
TYPE A RESTRAINT
 FOR 11 1/4" - 22 1/2" VERTICAL BENDS

PIPE SIZE NOMINAL DIAMETER - INCH	VERTICAL BEND IN DEGREES	CONCRETE BLOCKING IN CUBIC FEET	SIDE OF CURVE - FEET	DIAMETER OF SHANK OR REBAR RODS - INCH	DEPTH OF ROD CONCRETE - FEET
4"	11 1/4"	8	2.0	5/8"	1.5
4"	22 1/2"	15.6	2.5	5/8"	2.0
6"	11 1/4"	15.6	2.5	5/8"	2.0
6"	22 1/2"	34.3	3.25	5/8"	2.0
8"	11 1/4"	27	3.0	5/8"	2.0
8"	22 1/2"	64	4.0	5/8"	2.0
12"	11 1/4"	64	4.0	5/8"	2.0
12"	22 1/2"	125	5.0	3/4"	3.0
16"	11 1/4"	107	4.25	7/8"	3.0
16"	22 1/2"	216	6.0	7/8"	3.0
20"	11 1/4"	138	5.17	1"	3.5
20"	22 1/2"	334	6.94	1"	4.0
24"	11 1/4"	240	6.22	1"	4.0
24"	22 1/2"	478	7.81	1"	4.0
30"	11 1/4"	369	7.17	1"	4.0
30"	22 1/2"	733	9.02	1"	4.0

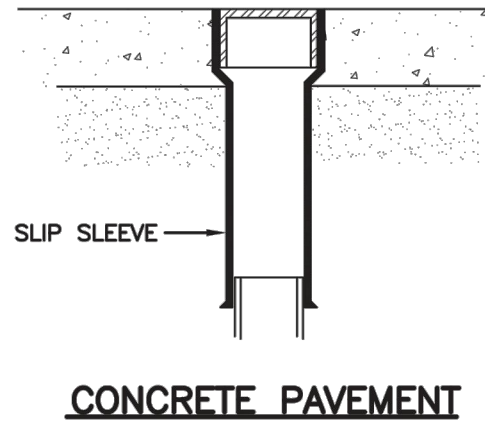


TYPE B RESTRAINT
 FOR 45° VERTICAL BENDS

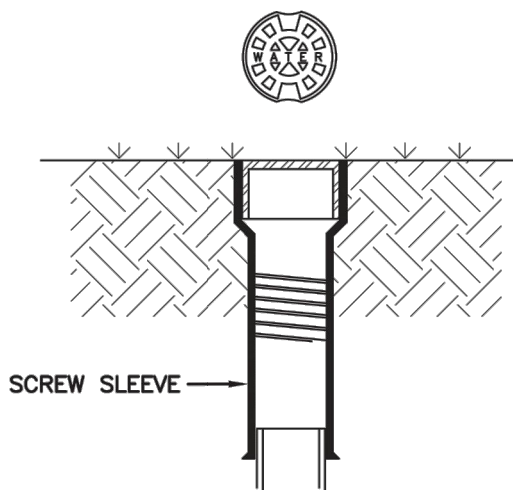
PIPE SIZE NOMINAL DIAMETER - INCH	VERTICAL BEND IN DEGREES	CONCRETE BLOCKING IN CUBIC FEET	SIDE OF CURVE - FEET	DIAMETER OF SHANK OR REBAR RODS - INCH	DEPTH OF ROD CONCRETE - FEET
4"	45°	1	3.0	5/8"	2.0
6"		2.37	4.0	5/8"	2.5
8"		3.97	4.75	5/8"	3.0
12"		9.04	6.25	5/8"	4.0
16"		17.24	7.75	3/4"	4.0
20"		26.52	9.25	3/4"	4.0
24"		37.82	10.07	3/4"	4.0
30"		58.26	11.63	3/4"	4.0



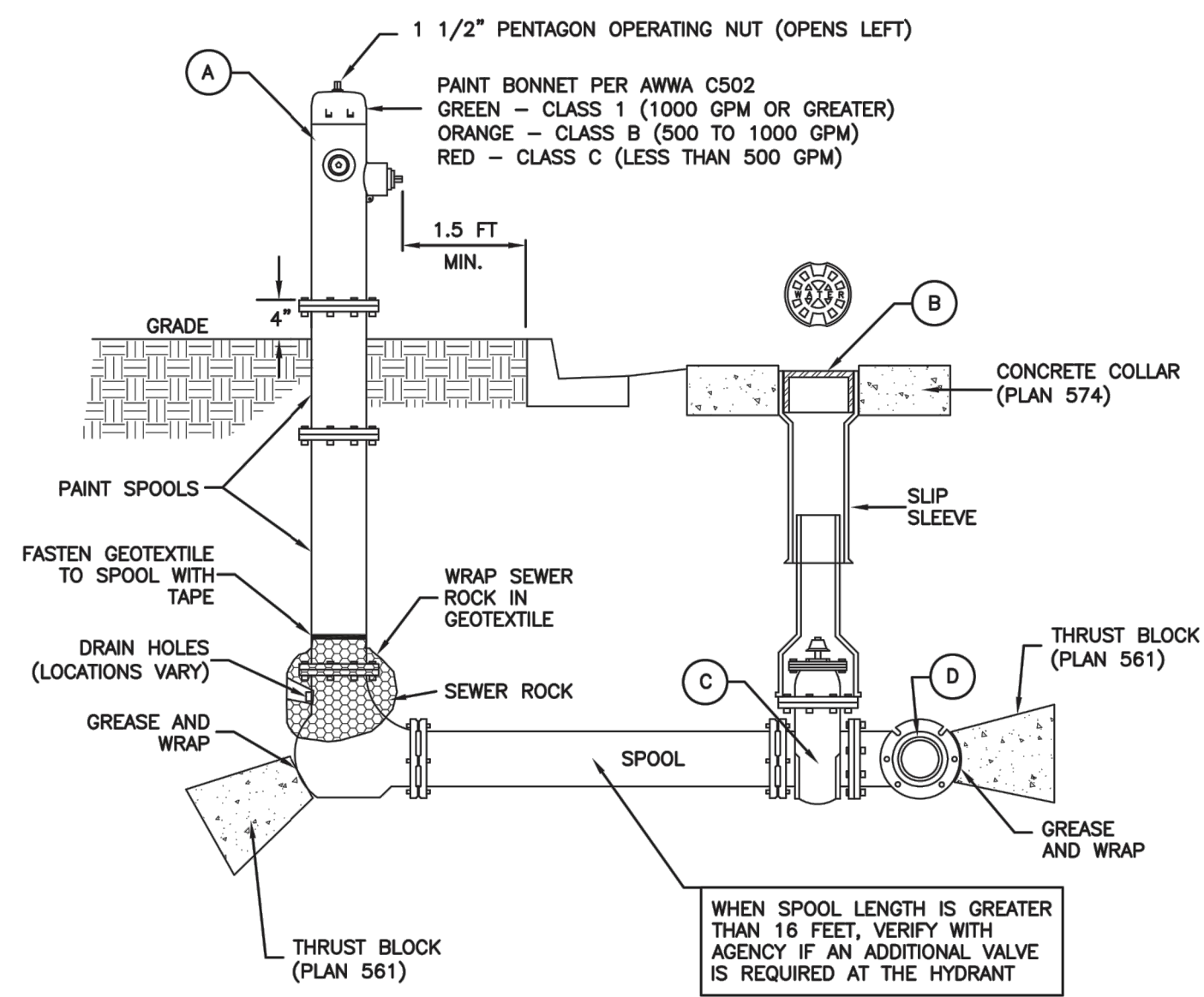
ASPHALT CONCRETE



CONCRETE PAVEMENT



LANDSCAPED AREA



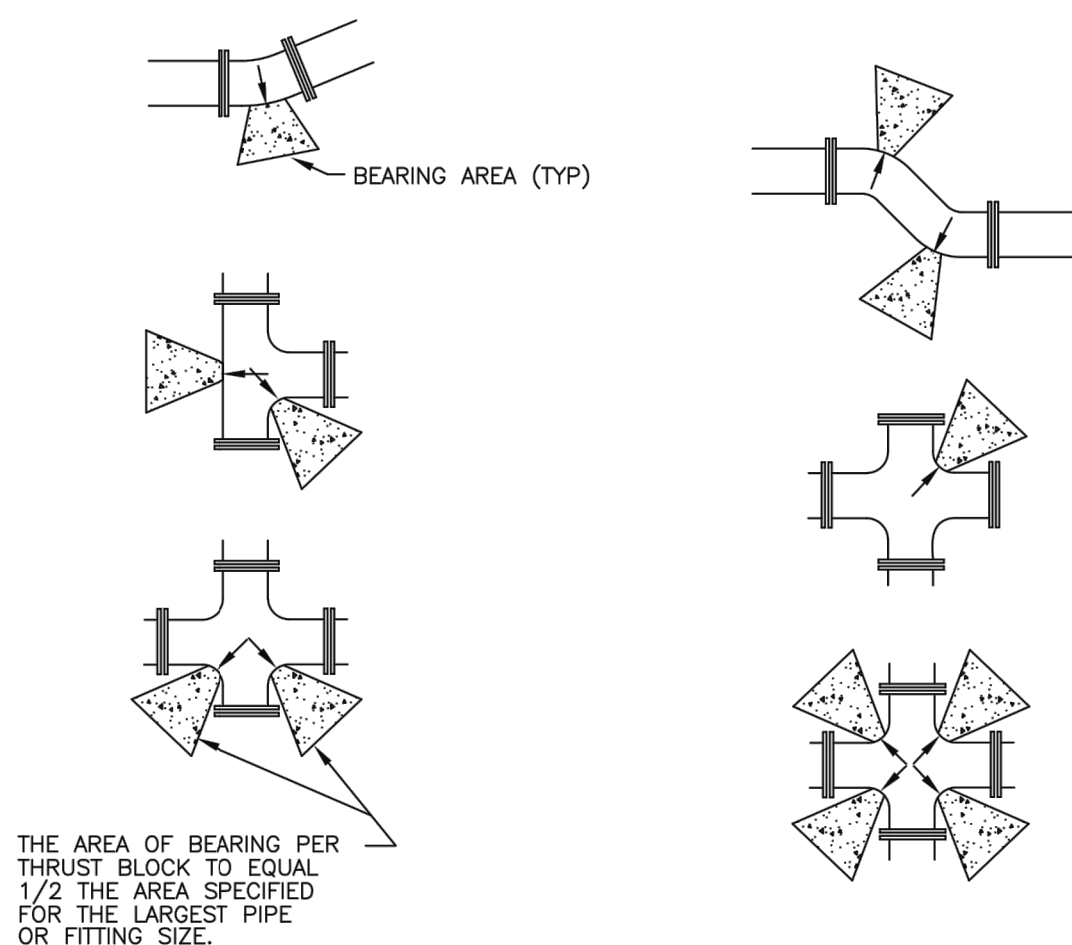
LEGEND

No.	ITEM	DESCRIPTION
(A)	FIRE HYDRANT	AWWA C502
(B)	VALVE BOX WITH LID	2-PIECE CAST IRON
(C)	GATE VALVE WITH 2" X 2" NUT	AWWA C509
(D)	TEE WITH 125 # FLANGE	AWWA C110

* FURNISHED BY UTILITY AGENCY

SECTION

Plan 562
 April 1997 269
Tie-down thrust restraints



THE AREA OF BEARING PER THRUST BLOCK TO EQUAL 1/2 THE AREA SPECIFIED FOR THE LARGEST PIPE OR FITTING SIZE.

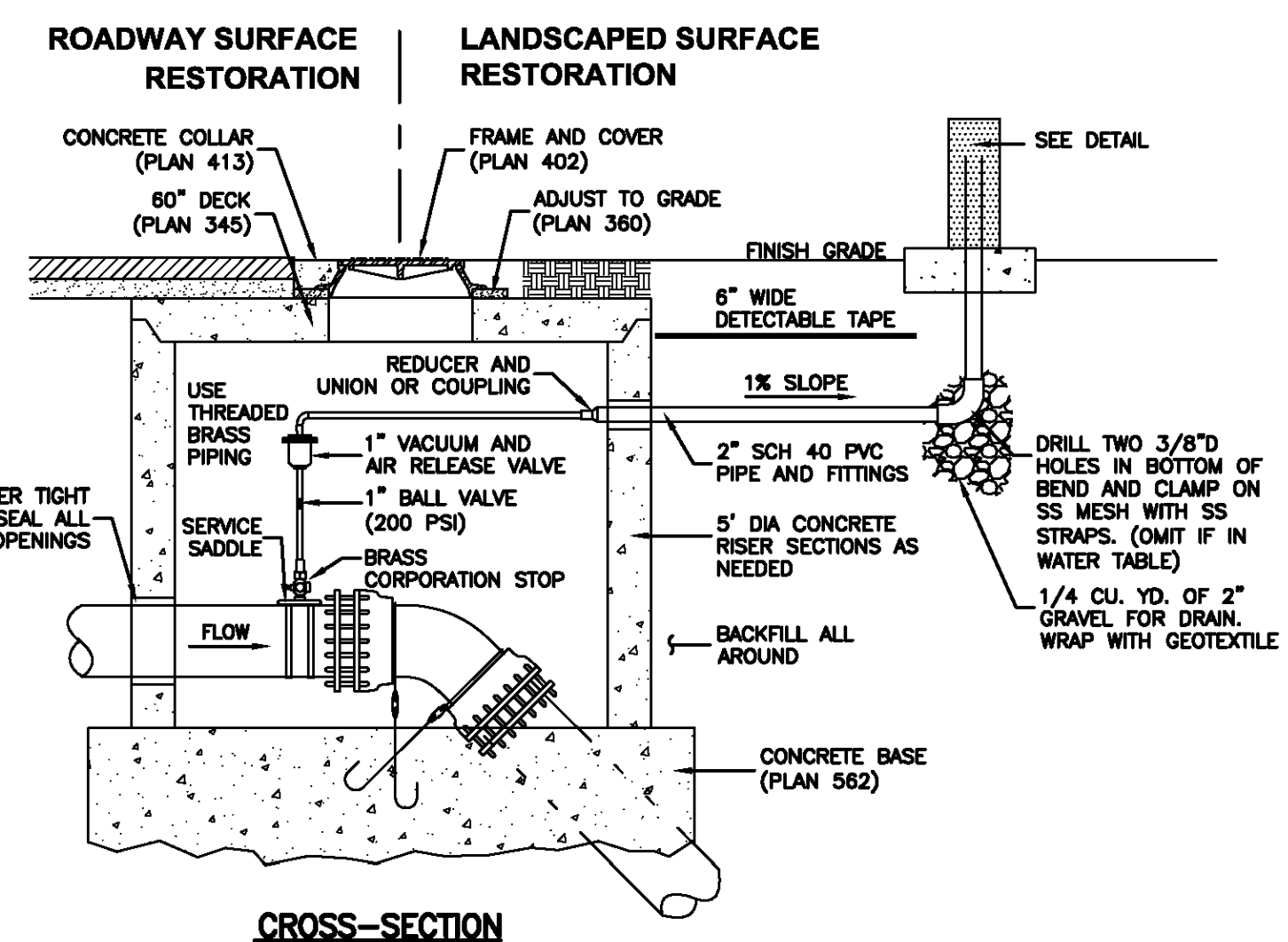
MINIMUM BEARING AREA IN SQ. FT.

SIZE OF PIPE	TEES, VALVES, DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2	3	2	2	2
6"	4	5.5	3	1.5	1
8"	6.5	9.5	5	2.75	1.5
12"	14	20	11	5.5	3
14"	19	26.5	14.5	7.5	4
16"	24	34	18.5	9.5	6
20"	27	52	28.5	14.5	16
24"	53	74	41	21	53
30"	81	114	62	32	16

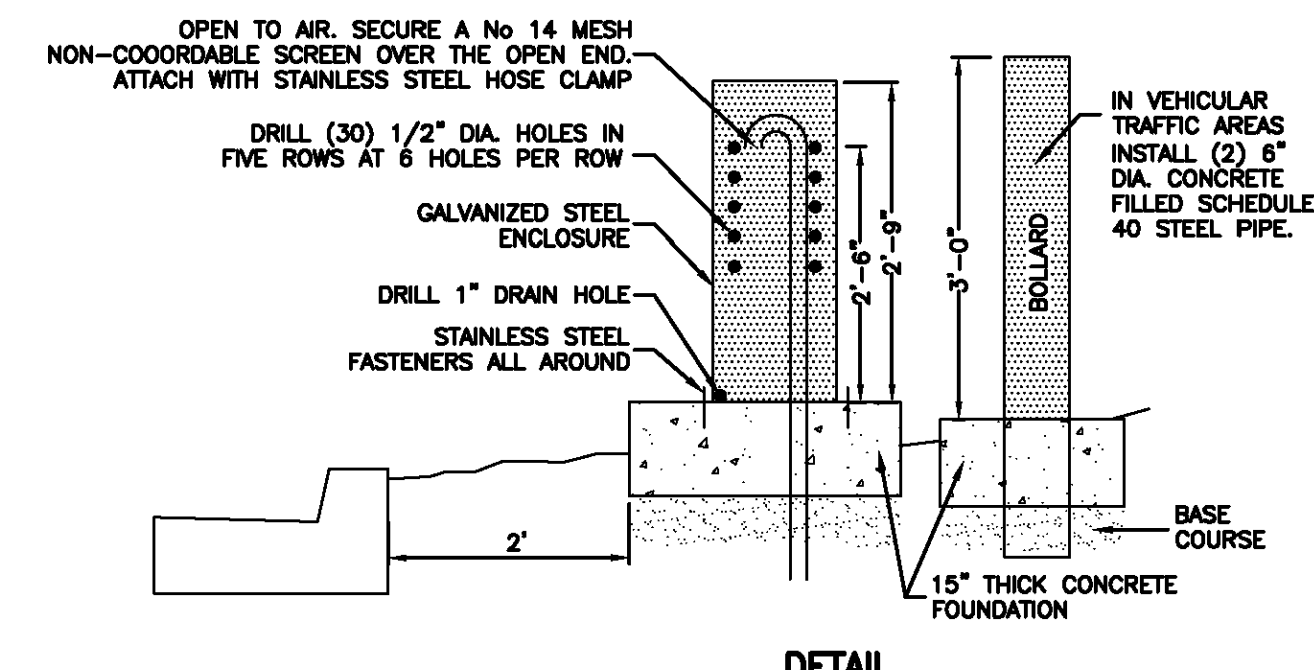
Direct bearing thrust block

April 1997 239
 Plan No. 561

Plan 574
 August 2010 277
Cover collar for water valve box



CROSS-SECTION



DETAIL

Air release assembly

February 2011 279
 Plan 575

Plan 511
 February 2011 237
Fire hydrant with valve

SUMMIT EDEN PHASE 1A
WATER DETAILS

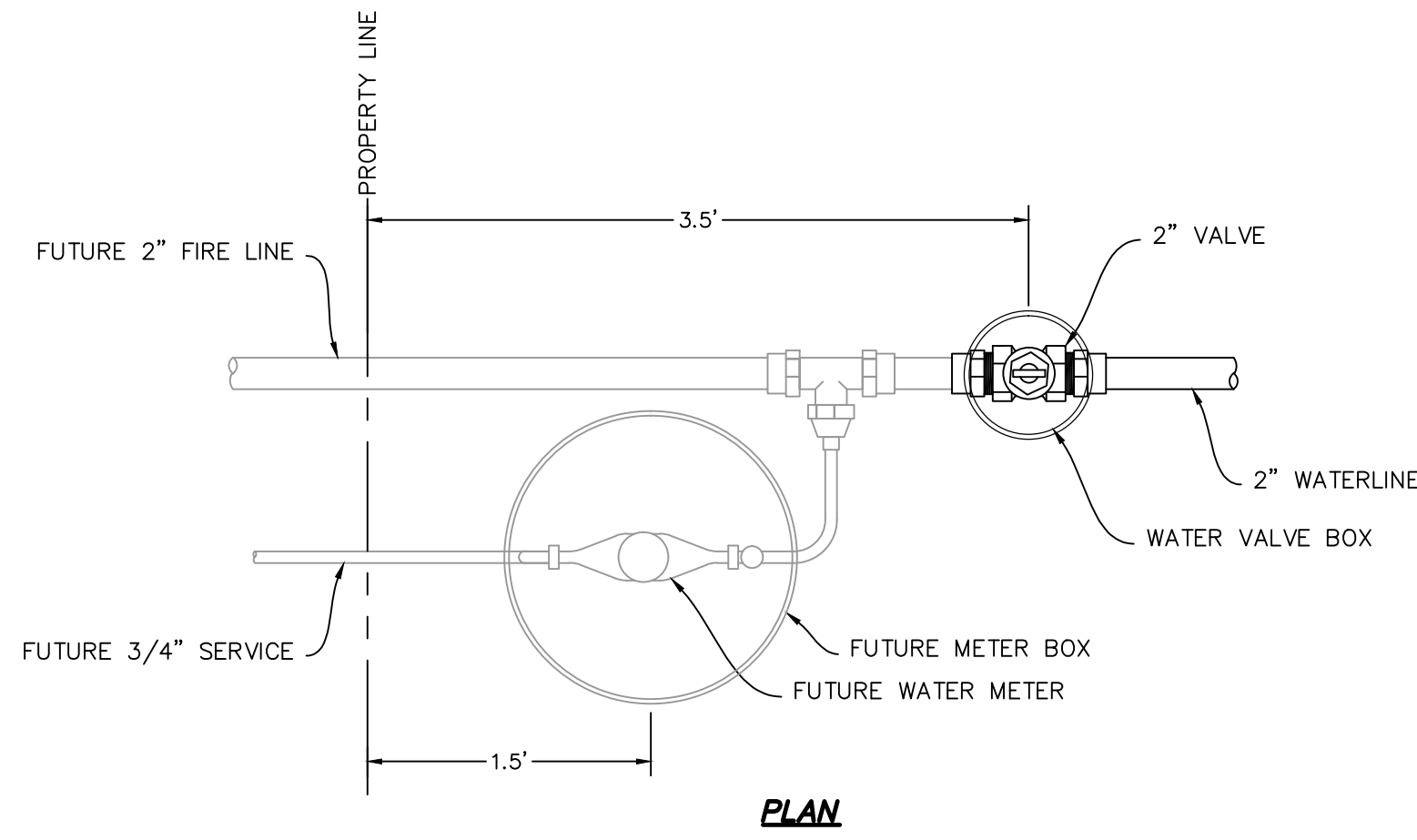
NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 801743.000 TEL. 801743.000 FAX
 MURRAY, UT 84107
 WWW.NV5.COM

REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 1/5/14
 STATE OF UTAH

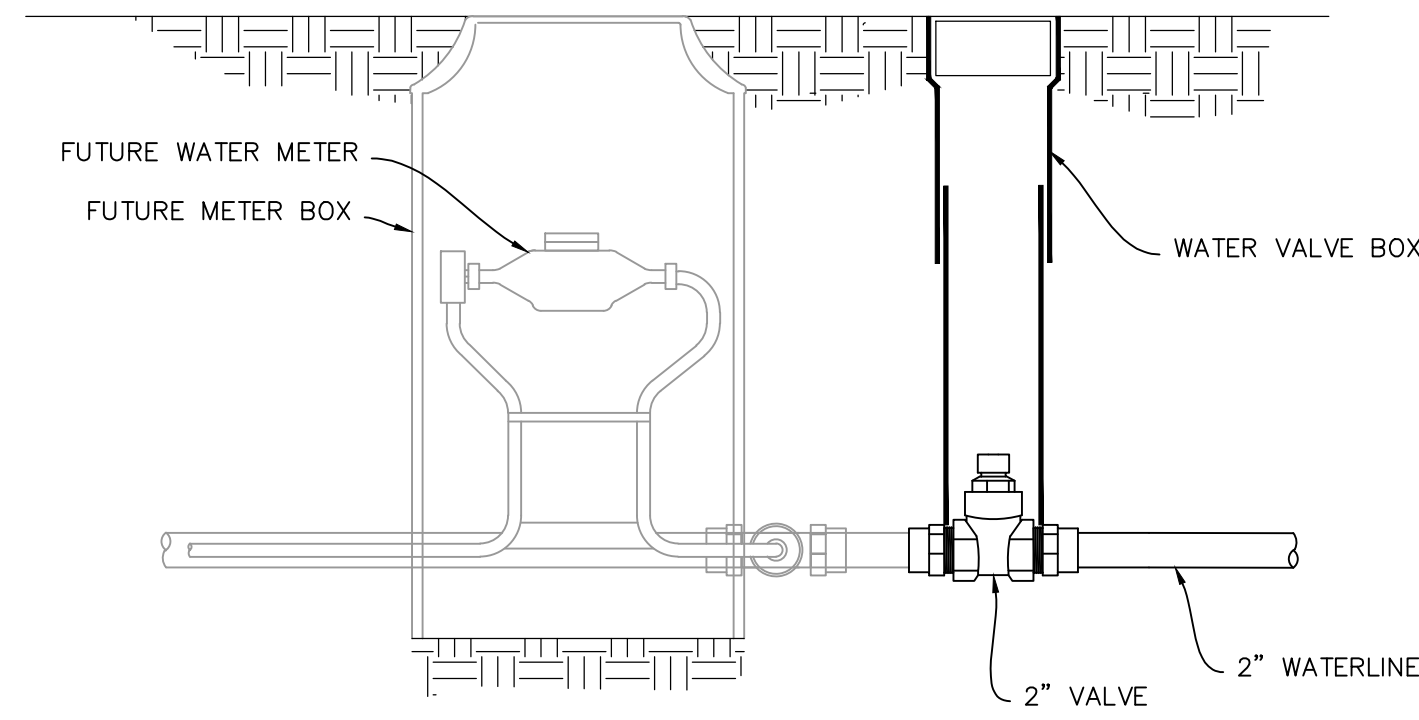
SHEET NUMBER
5.01
 SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = N/A
 JOB NUMBER
SLB079306



The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.



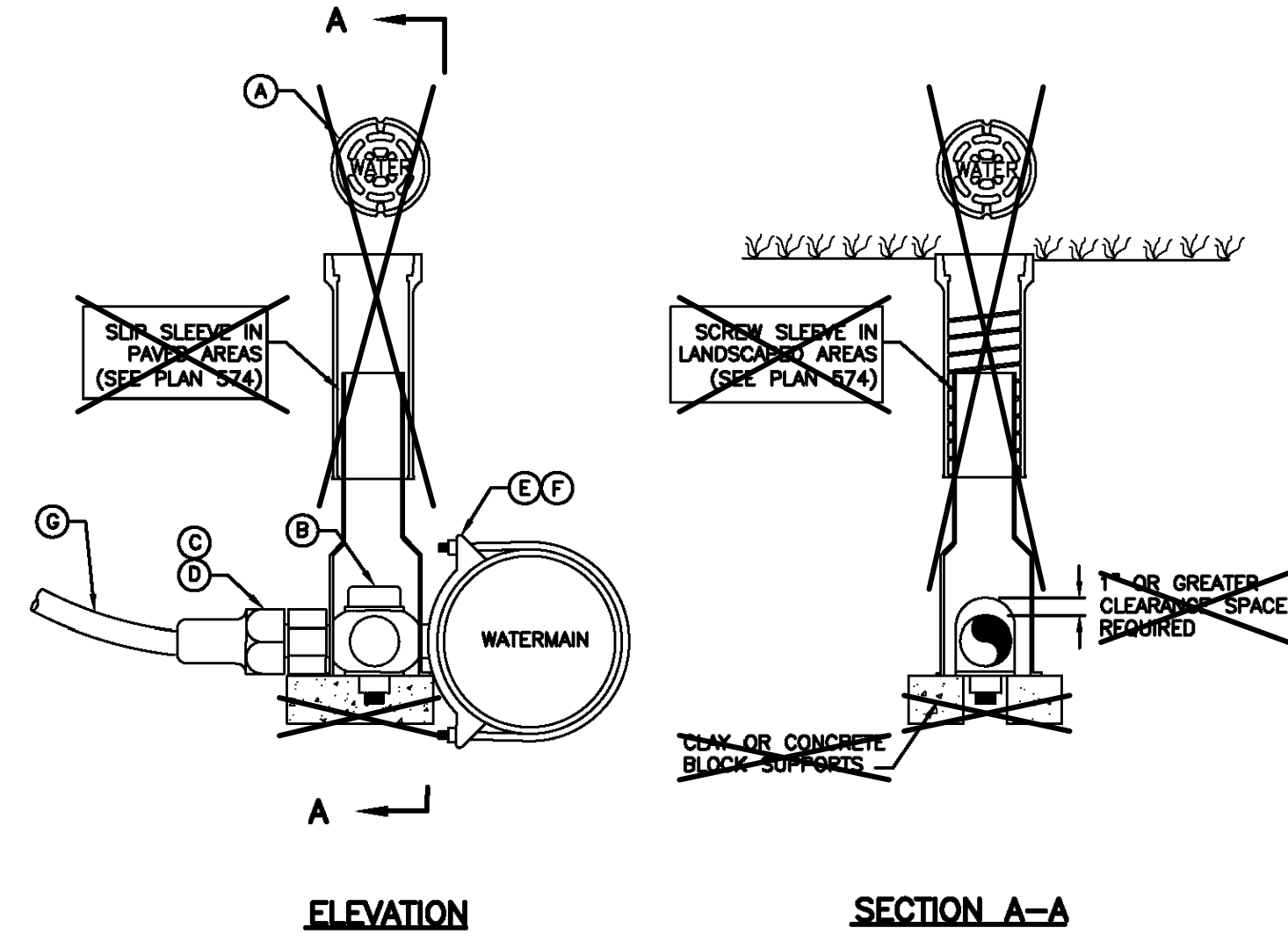
PLAN



SECTION

NOTE:
 FUTURE SIZES ARE PRELIMINARY.
 ACTUAL SIZE TO BE DETERMINED
 BY BUILDING DESIGNER

WATER LATERAL DETAIL
 NO SCALE



ELEVATION

SECTION A-A

LEGEND			
No.	*	ITEM	DESCRIPTION
(A)		VALVE BOX WITH LID	2-PIECE CAST IRON
(B)		CORPORATION STOP	BRASS
(C)		COPPER ADAPTER	
(D)		FLARE OR PACK JOINT COPPER ADAPTER	
(E)		SERVICE SADDLE CLAMP	D.I., A.C., C.I.
(F)		SERVICE SADDLE CLAMP	P.V.C.
(G)		COPPER PIPE (SERVICE LINE)	TYPE K (SOFT)

OMIT VALVE BOX

* FURNISHED BY UTILITY AGENCY

1 1/2" and 2" Service taps

August 2001

265

Plan 552

NO.	BY	DATE	REVISIONS
4	RHC	7/25/2014	COUNTY REVIEW

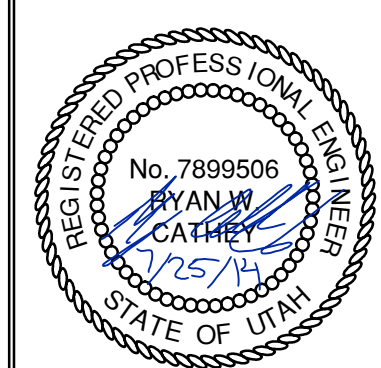
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

SUMMIT EDEN PHASE 1A
WATER DETAILS

DATE SUBMITTED: 01/07/2014

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC

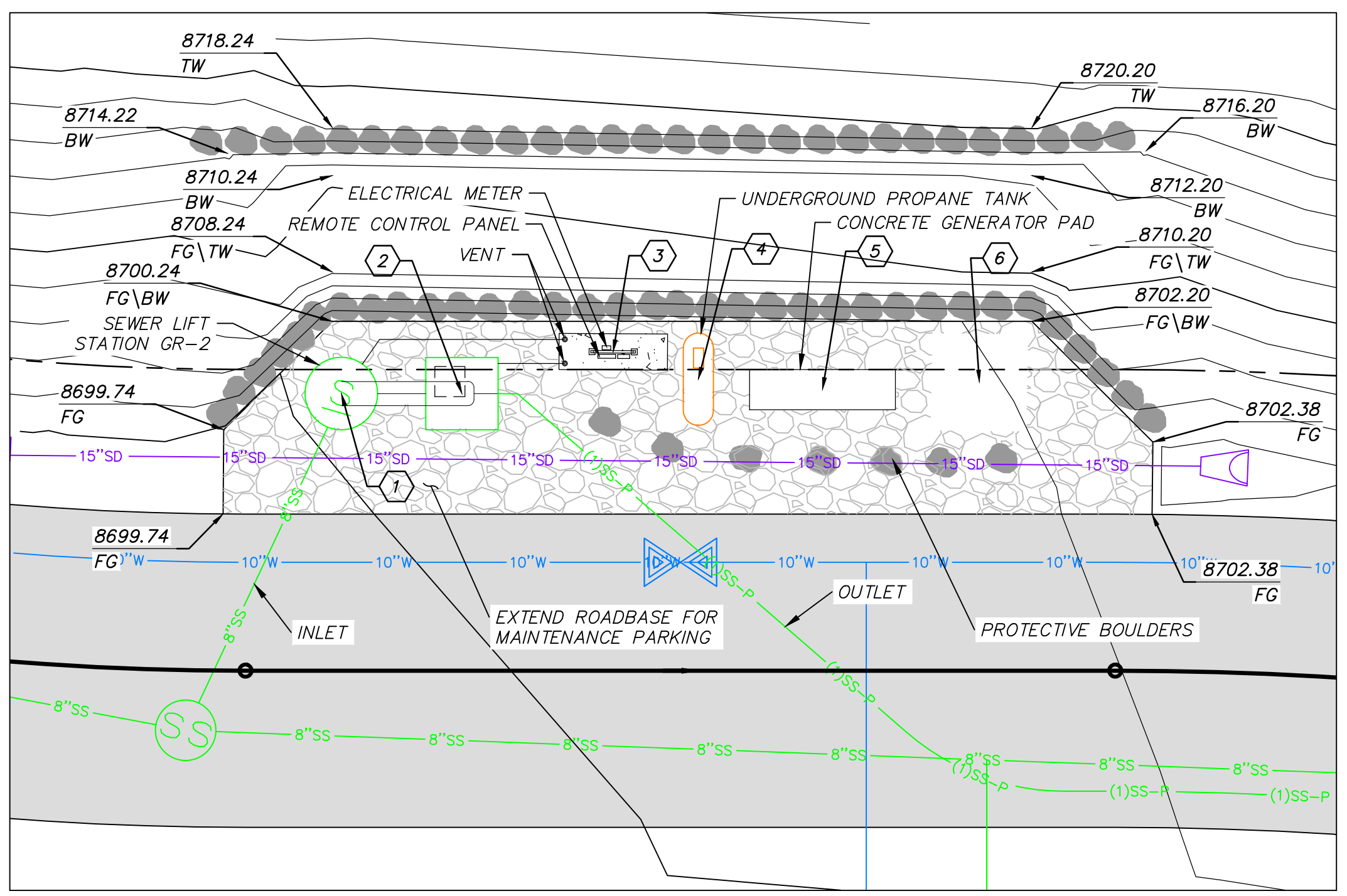
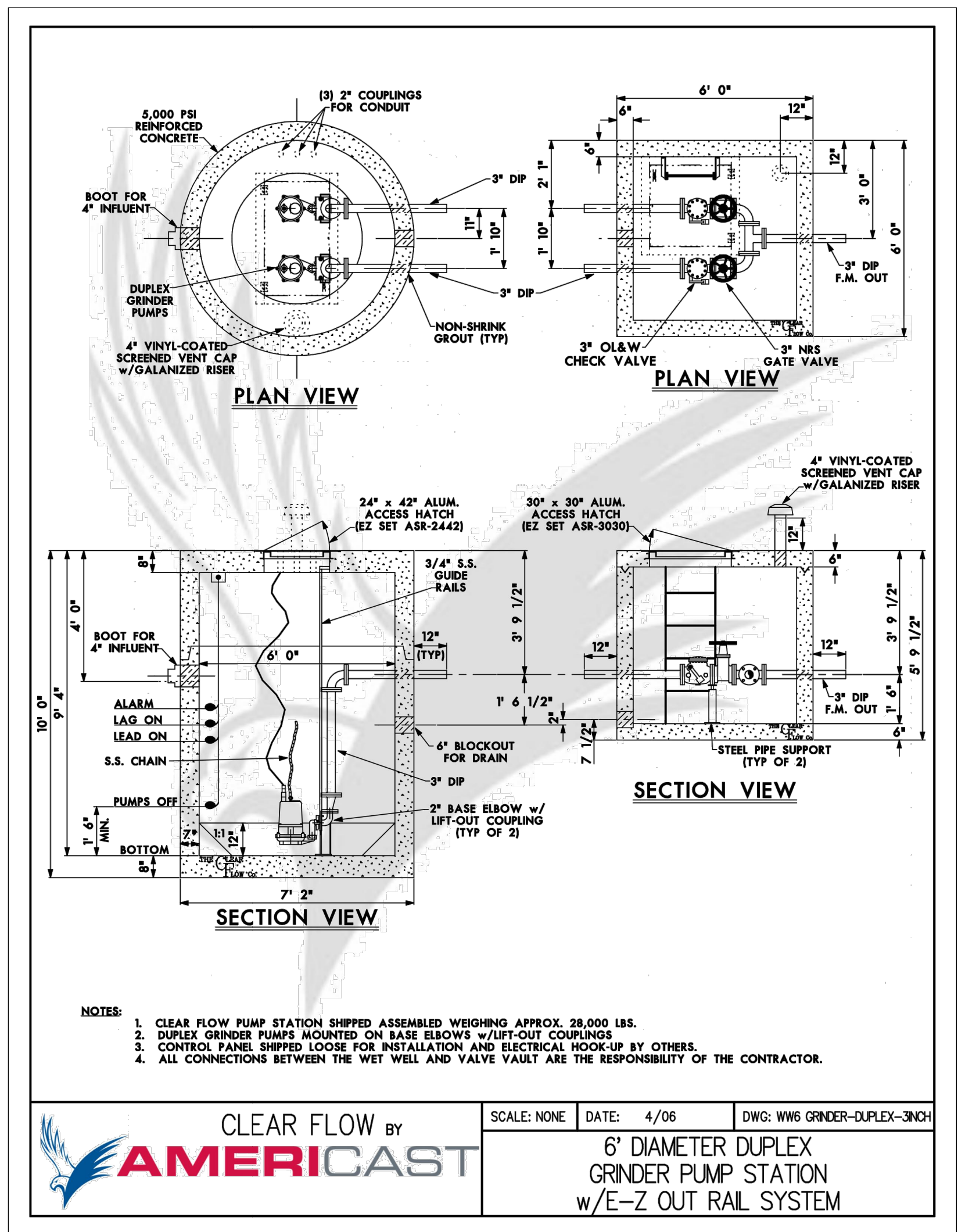
NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 801743.0300 TEL. 801743.0300 FAX
 MURRAY, UT 84107
 WWW.NV5.COM



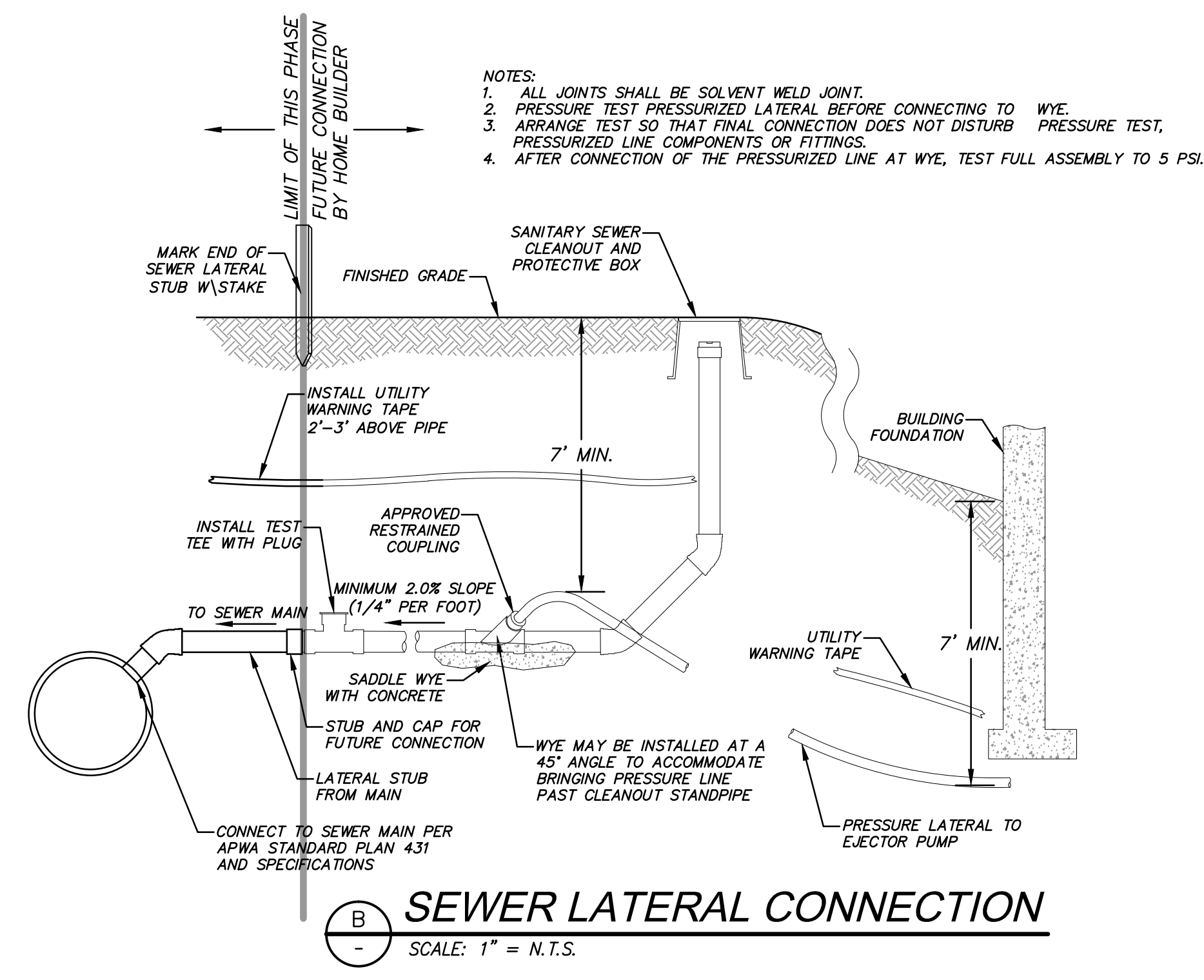
SHEET NUMBER	5.02
SCALE	VERTICAL: 1" = N/A HORIZONTAL: 1" = N/A
JOB NUMBER	SLB079306



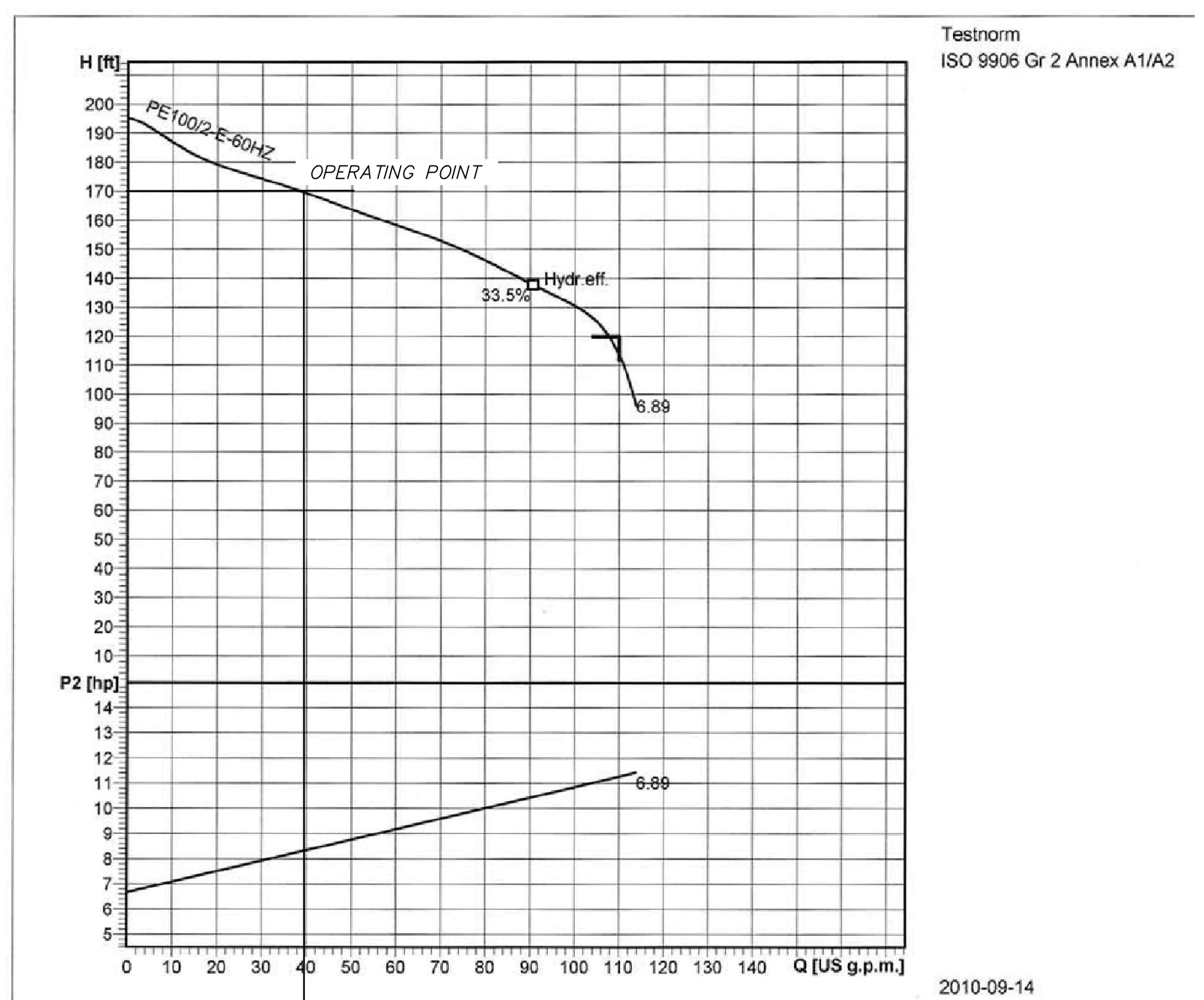
DATE: 8/26/14 TIME: 4:53:02 PM DRAWING NAME: P51001.DWG
 SERVER: N:\B0793\CAD\PHASE 1\WIP\1-A REVISED: ### PROJ. NO: ###
 LAYOUT: P51001



GRINDER STATION GR-2		
STATION	OFFSET	ELEVATION
1	28+65.63	-23.00 8700.13
2	28+75.63	-23.00 8700.42
3	28+88.17	-26.50 8700.93
4	28+95.24	-24.00 8701.11
5	29+05.54	-23.33 8701.46
6	29+18.55	-24.00 8701.94



PIR PE PE100/2-E-60HZ



PUMP NAME	RIM ELEV	INVERT IN	INVERT IN SIZE	SUMP ELEV	BASE DIA.	DISCHARGE ELEV	PUMP HEAD	PUMP HP	DISCHARGE DIA	DISCHARGE VELOCITY	MIN STORAGE VOLUME (gal)	STATION DETAIL	PUMP	PEAK FLOW (GPM)	AUTO DIALER	MAIN POWER TRANSFER SWITCH	POWER
GR-2	8700.13	8688.74	8"	8681.74	72"	8848.06	170	13.4	3"	2.16	1500	AMERICAST 6' DIA. DUPLEX	ABS PUMP MODEL PIR PE PE100	38	CELLULAR	MANUAL	3 PHASE/480 VOLT

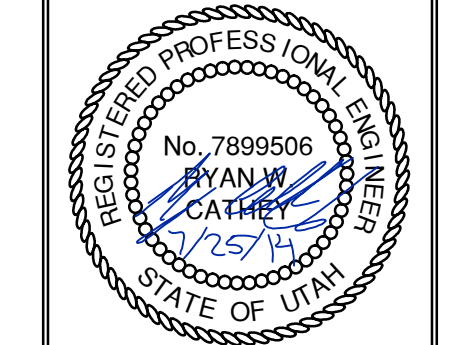
SEWER GRINDER PUMP DETAILS
 SCALE: 1" = N.T.S.

Grinder Station Calculations	
Head Difference	8683.71-8848.06=164.35 ft.
Pipe Length	750 ft.
Friction Loss	6.28 ft.
Flow Calc.	(23 units)/(3.2 People/household)(100 gallons/day/capita) =5.11 g/m average
Peaking Factor (Ten States Method)	$Q_{peak}/Q_{ave} = 18+VP/4+VP=4.5$ $Q_{peak} = 23.0$ g/m
Pump Curve	See Pump Curve = 40 g/m

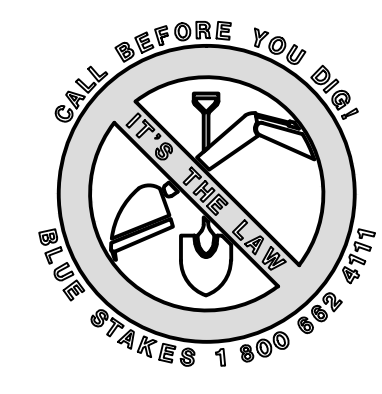
NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADDendum 1
2	RMC	5/27/2014	WEBER COUNTY REVIEW REVISIONS
3	RMC	5/27/2014	COUNTY REVIEW
4	RMC	7/25/2014	COUNTY REVIEW

SUMMIT EDEN PHASE 1A
SEWER DETAILS

NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 801743.0000 TEL. 801743.0000 FAX
 MURRAY, UT 84107
 WWW.NV5.COM



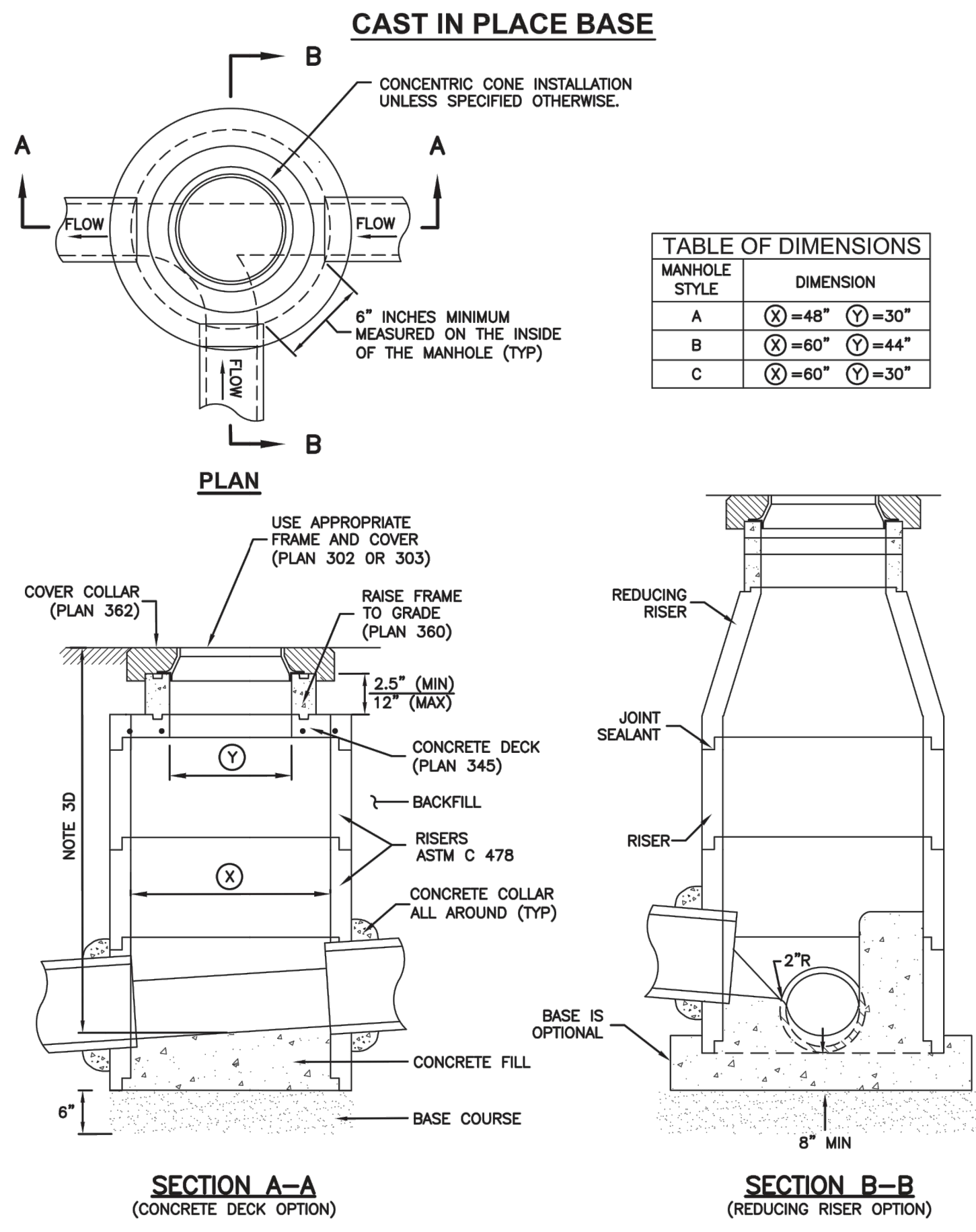
SHEET NUMBER
5.10
 SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = N/A
 JOB NUMBER
SLB079306



DATE SUBMITTED: 01/07/2014
 PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC

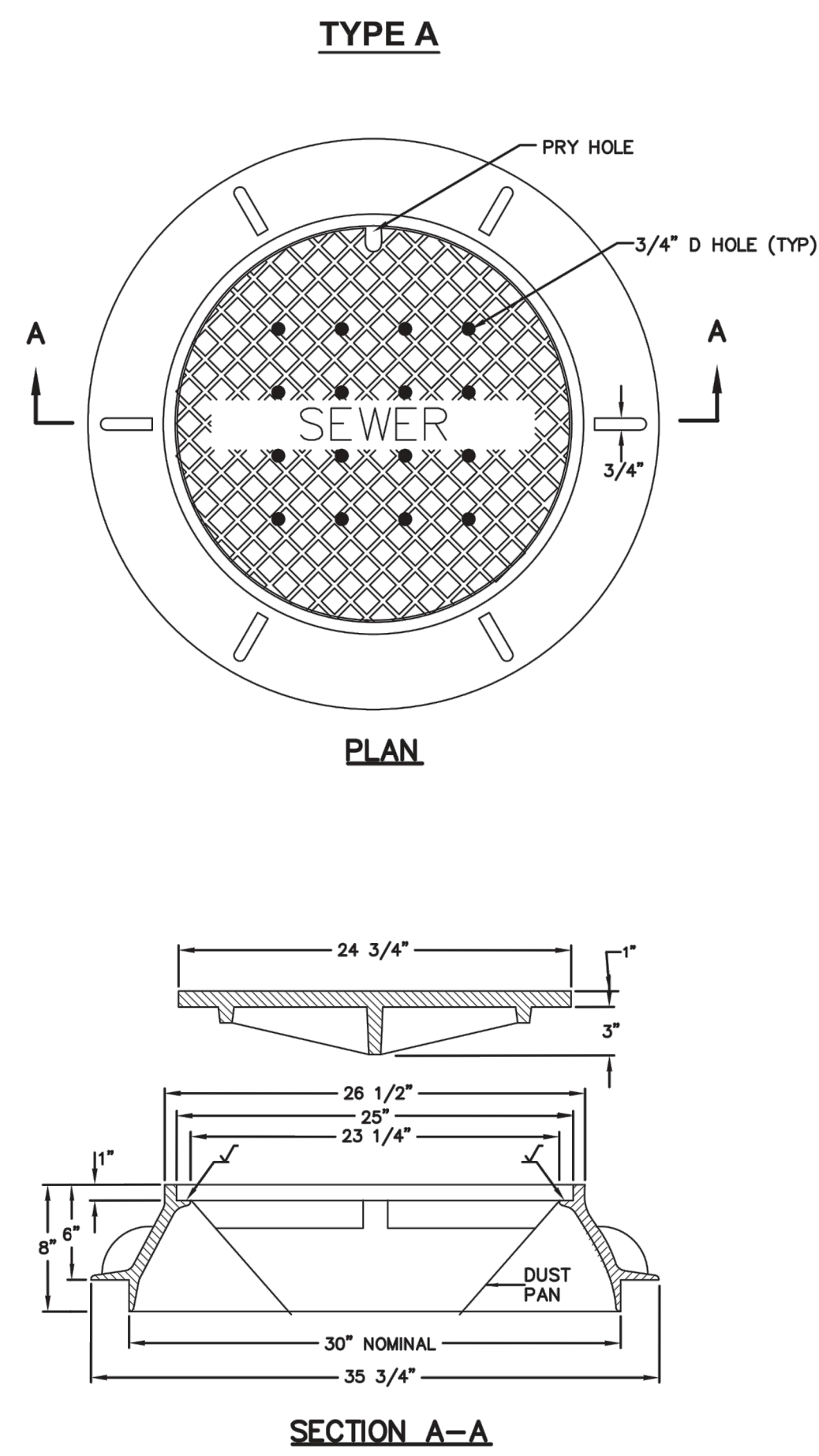
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans, and must be approved by the preparer of these plans.

DATE: 8/26/14 TIME: 4:44:08 PM DRAWING NAME: IPS101.DWG
 SERVER: NONE PAGE SETUP: PIP-330-24-38 LAYOUT: IPS101
 PATH: N:\B0793\CAD\PHASE 1\PIP-A-330-24-38-###.DWG PROJ. NO: ###

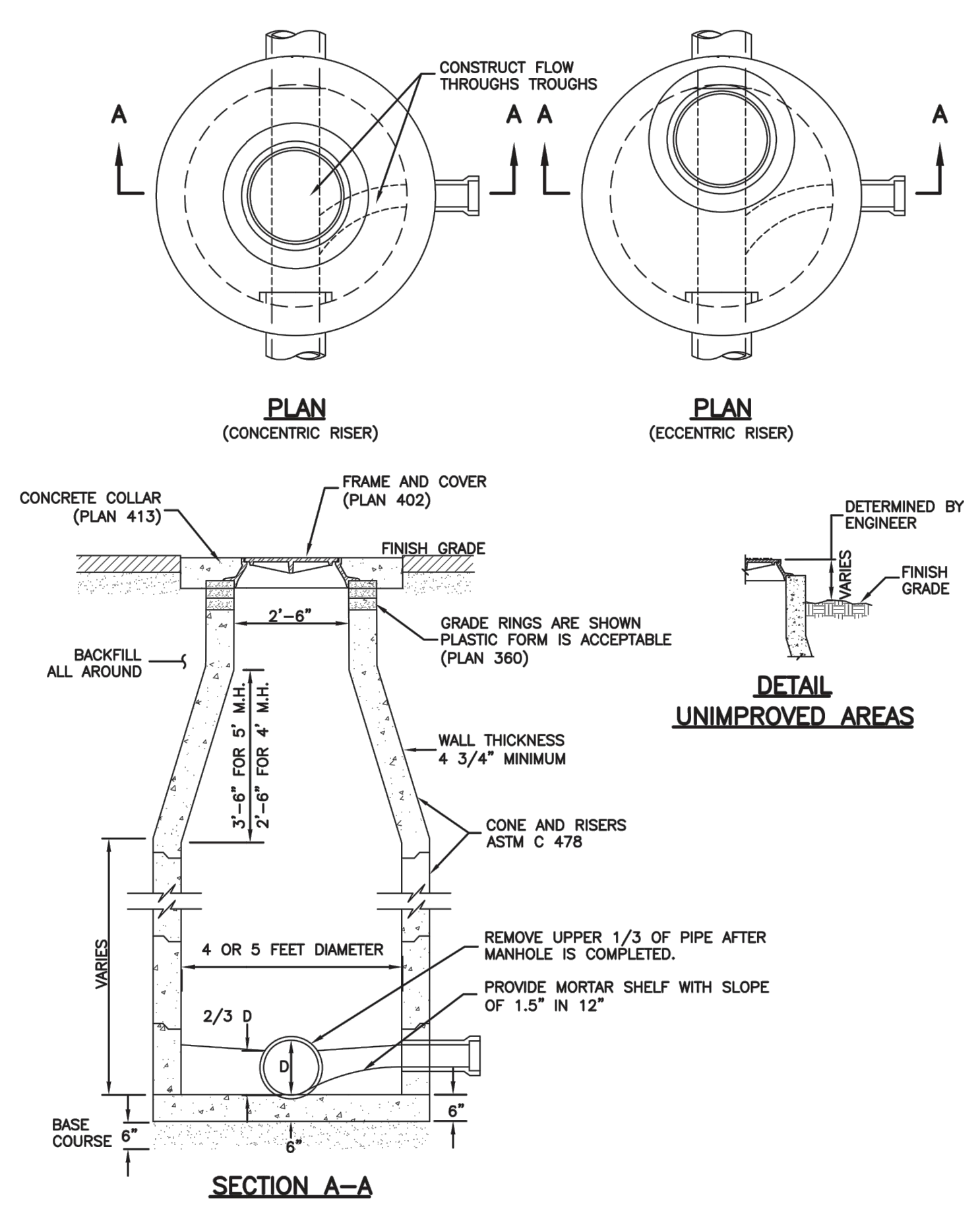


MANHOLE STYLE	DIMENSION	
A	⊗=48" ⊙=30"	
B	⊗=60" ⊙=44"	
C	⊗=60" ⊙=30"	

Precast manhole Plan 341
 November 2010 187 Sheet 1 of 2

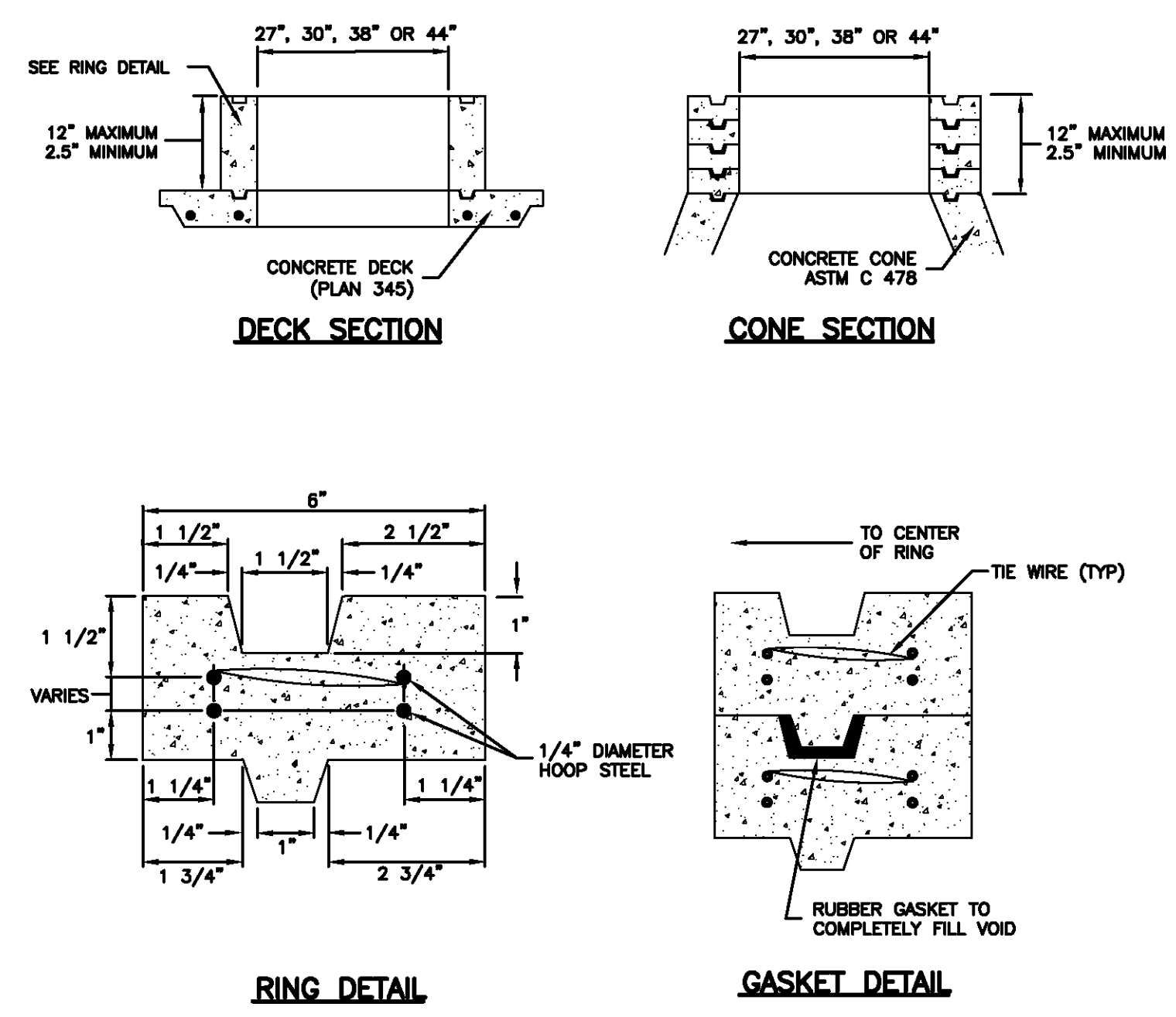


30" Frame and cover Plan 402
 April 1997 211

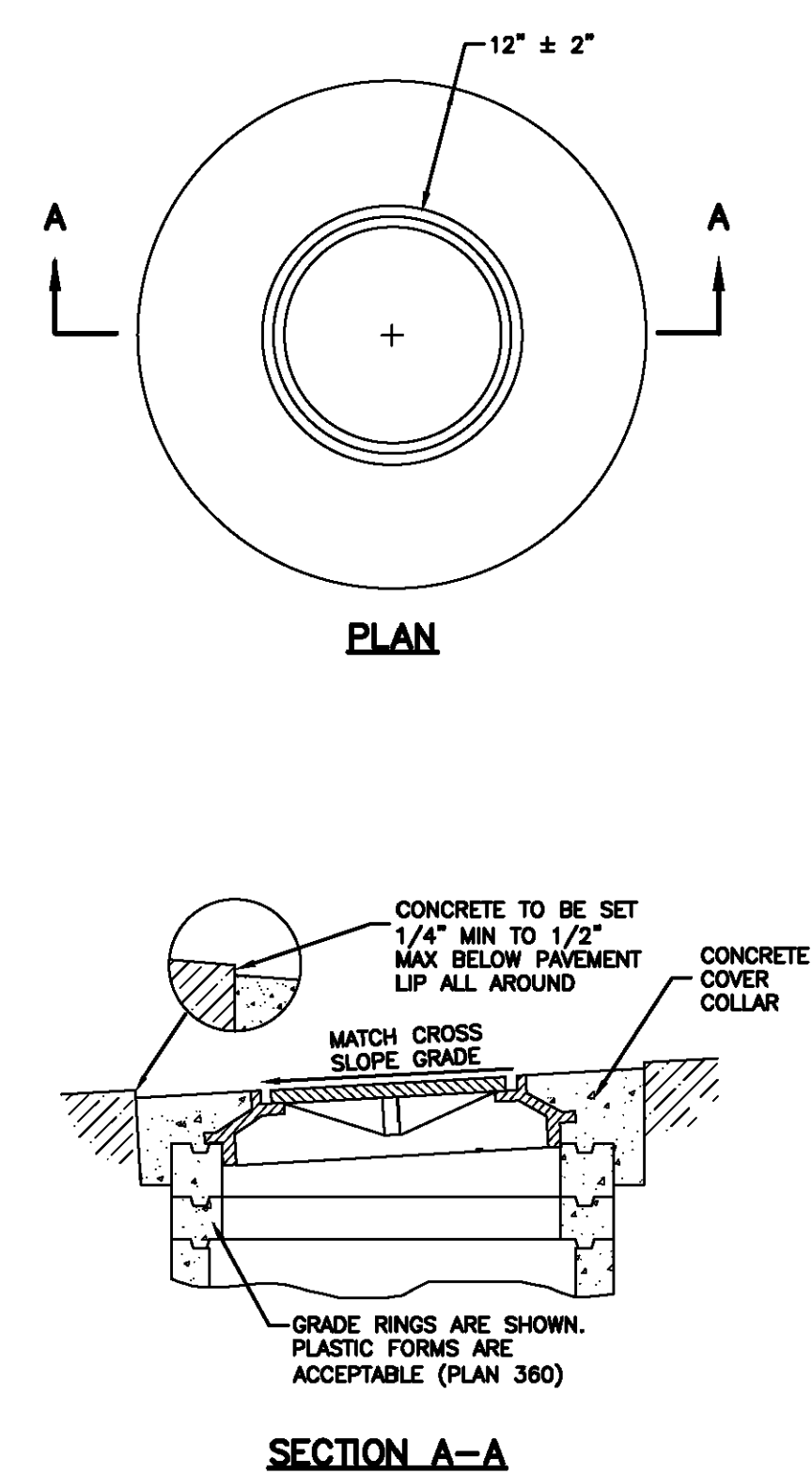


Sanitary sewer manhole Plan 411
 April 2011 213

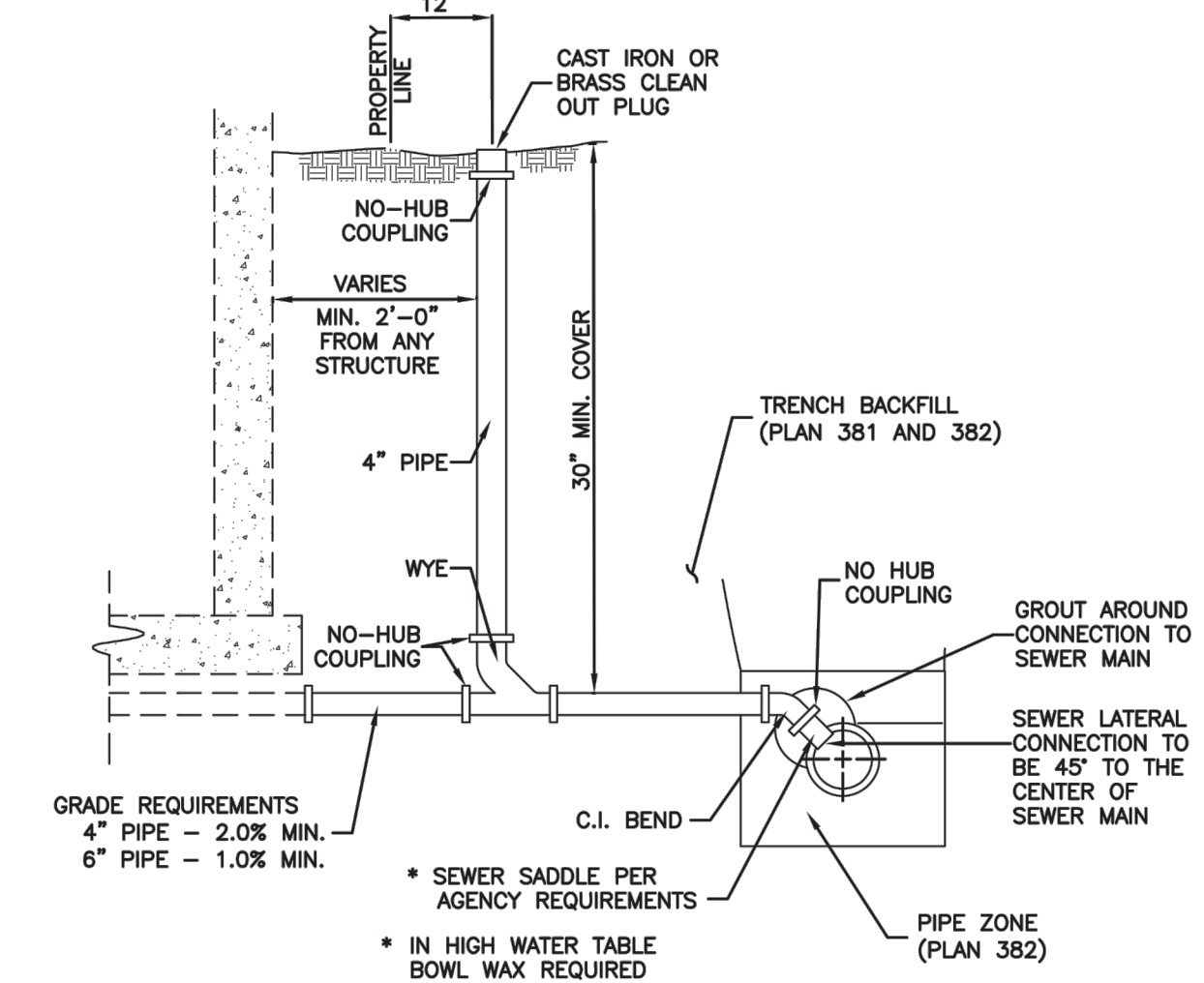
GRADE RING



Raise frame to grade Plan 360
 May 2008 193 Sheet 1 of 2



Cover collar for sanitary sewer manhole Plan 413
 September 2001 217



Sewer lateral connection Plan 431
 January 2011 219

NO.	BY	DATE	REVISIONS
1	RWC	8/27/2014	ADDendum 1
2	RWC	1/25/2014	WEBB COUNTY REVIEW REVISIONS

SUMMIT EDEN PHASE 1A
SEWER DETAILS

NV5
 BEYOND ENGINEERING
 6217 SOUTH STATE STREET, SUITE 200
 801743.0300 TEL. 801743.0300 FAX
 MURRAY, UT 84107
 WWW.NV5.COM

REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 1/5/14
 STATE OF UTAH

SHEET NUMBER	5.11
SCALE	VERTICAL: 1" = N/A HORIZONTAL: 1" = N/A
JOB NUMBER	SLB079306

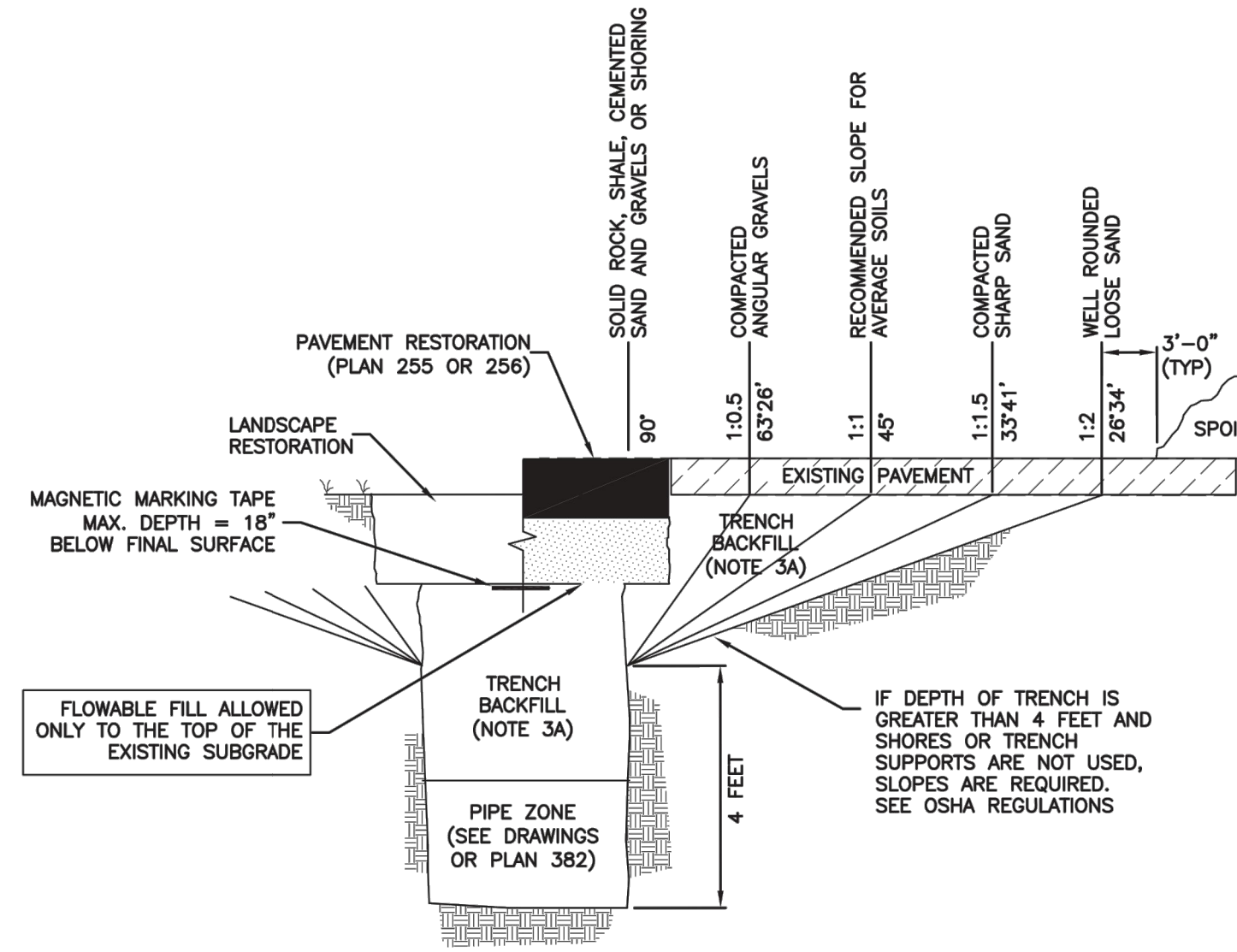


PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans, and must be approved by the preparer of these plans.

Trench backfill

1. **GENERAL**
 - A. The drawing applies to backfilling the trench above the pipe zone.
2. **PRODUCTS**
 - A. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches.
 - B. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
3. **EXECUTION**
 - A. Trench Backfill:
 - 1) DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench backfill.
 - 2) 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.
 - 3) Water jetting is NOT allowed.
 - 4) Submission of quality control compaction test result data developed for haunching areas may be requested by ENGINEER at any time. Provide results of tests immediately upon request.
 - B. Flowable Fill: When required, place controlled low strength material in the trench, APWA Section 31 05 15. Cure the fill before placing surface restorations.
 - C. Surface Restoration:
 - 1) Landscaped Surface: Rake to match existing grade. Replace vegetation to match pre-construction conditions. Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements.
 - 2) Paved Surface: Do not install asphalt or concrete surfacing until trench compaction is acceptable to ENGINEER. Follow APWA Section 33 05 25 (asphalt surfacing), or APWA Section 33 05 25 (concrete surfacing).



Trench backfill

Plan
381

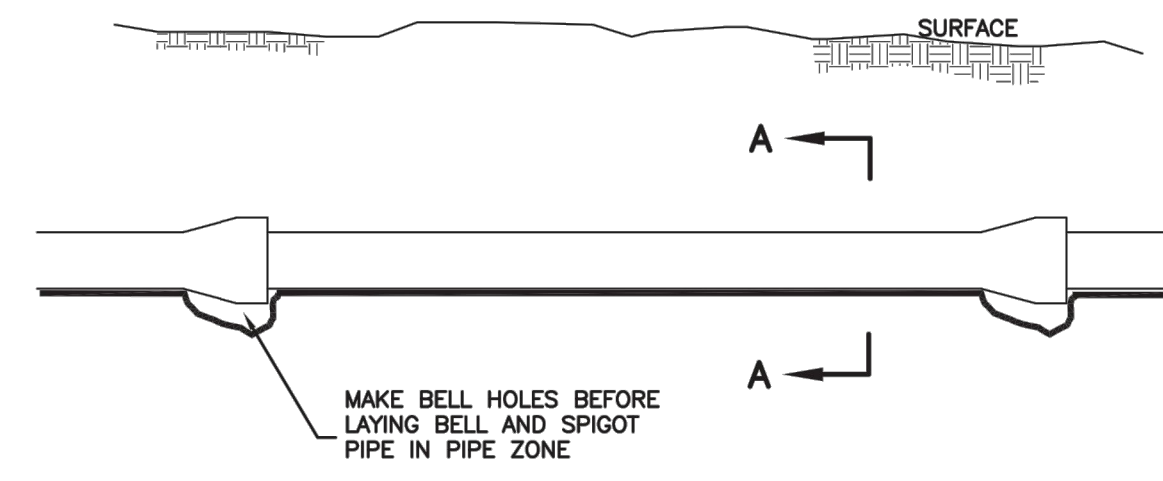
202

January 2011

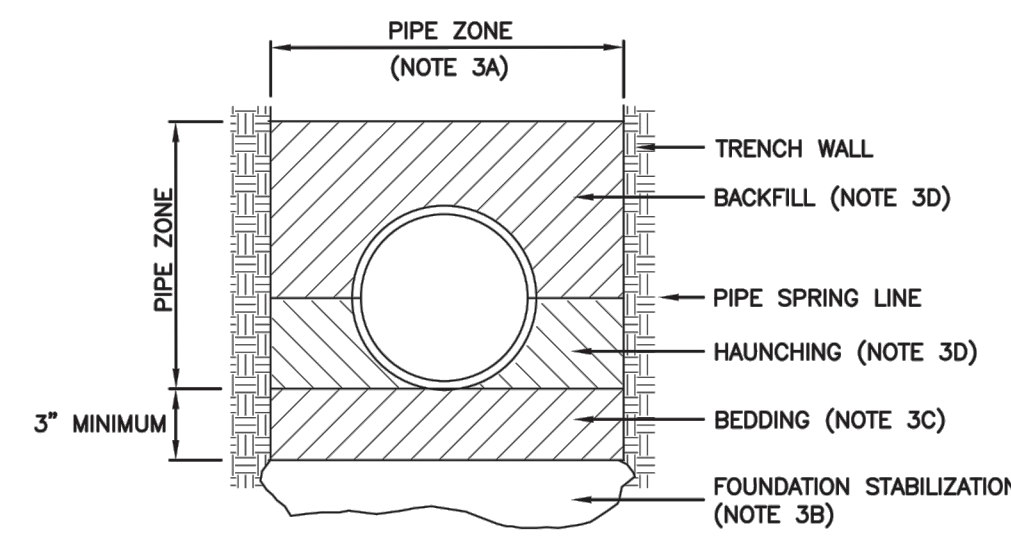
203

Pipe zone backfill

1. **GENERAL**
 - A. Install the pipe in the center of the trench or no closer than 6-inches from the wall of the pipe to the wall of the trench.
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: APWA Section 03 30 04.
 - D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
 - E. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.
3. **EXECUTION**
 - A. Excavate the Pipe Zone: Width is measured at the pipe spring line and includes any necessary sheathing. Provide width recommended by pipe manufacturer. Follow manufacturer's recommendations when using trench boxes.
 - B. Foundation Stabilization: Get ENGINEER's permission before installing common fill. Vibrate to stabilize. Installation of stabilization-separation geotextile will be required to separate backfill material and native subgrade materials if common fill cannot provide a working surface or prevent soils migration.
 - C. Base Course:
 - 1) Furnish untreated base course material unless specified otherwise by pipe manufacturer.
 - 2) 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.
 - 3) When using concrete, provide at least Class 2,000 per APWA Section 03 30 04.
 - D. Pipe Zone: DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate in the pipe zone. Water jetting is NOT allowed.
 - 1) 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 unless pipe manufacturer requires more stringent installation.
 - 2) Submission of quality control compaction test result data developed for the haunch zone may be requested by ENGINEER at any time. CONTRACTOR is to provide results of tests immediately upon request.
 - E. Flowable Fill (when required and if allowed by pipe manufacturer):
 - 1) Place the controlled low strength material. APWA Section 31 05 15.
 - 2) Prevent pipe flotation by installing in lifts and providing pipe restraints as required by pipe manufacturer.
 - 3) Reset pipe to line and grade if pipe "floats" out of position.



ELEVATION VIEW



SECTION A-A

INSTALLATION
 CONCRETE PIPE: FOLLOW ASTM C 1479
 *STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE SEWER, STORM DRAIN, AND CULVERT PIPE USING STANDARD INSTALLATIONS.
 PVC AND HDPE PIPE: FOLLOW ASTM D 2321
 *STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS.
 CORRUGATED METAL PIPE: FOLLOW ASTM A 798
 *STANDARD PRACTICE FOR INSTALLING FACTORY-WADE CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATIONS.
 VITRIFIED CLAY PIPE: FOLLOW ASTM C 12.
 *STANDARD RECOMMENDED PRACTICE FOR INSTALLING VITRIFIED CLAY PIPE LINES.

Pipe zone backfill

Plan
382

204

January 2011

205

SUMMIT EDEN PHASE 1A
MISCELLANEOUS DETAILS

NO.	BY	DATE	REVISIONS
1	RWC	8/27/2013	ADDendum 1
2	RWC	7/22/2014	WEBB COUNTY REVIEW REVISIONS

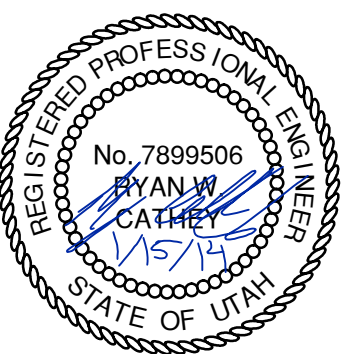
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

DATE SUBMITTED: 01/07/2014

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC



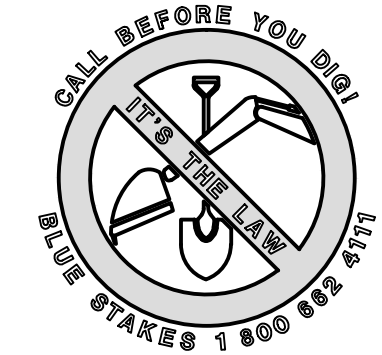
5217 SOUTH STATE STREET, SUITE 200
 801743.0000 TEL 801743.0000 FAX
 MURRAY, UT 84107
 WWW.NIV5.COM

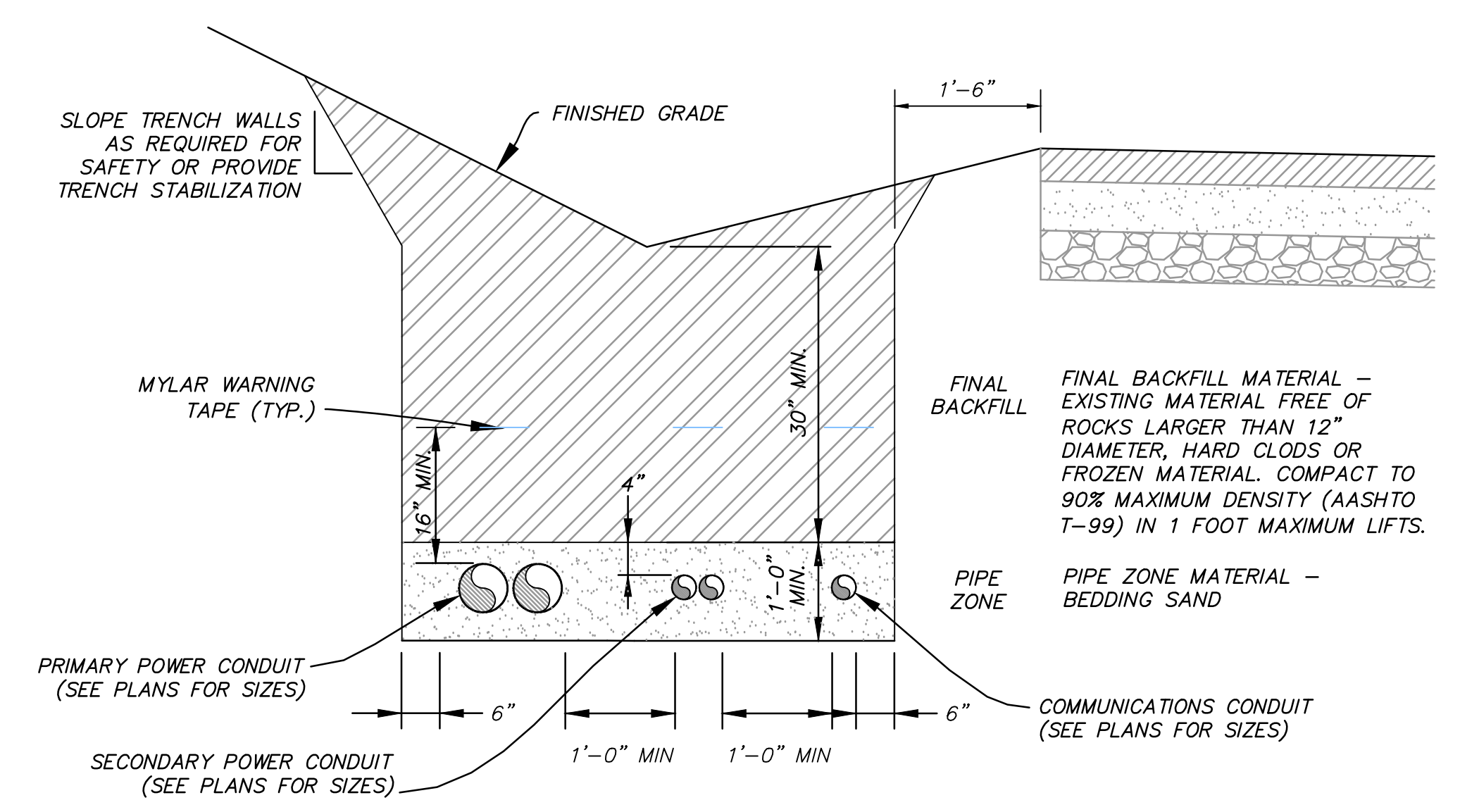
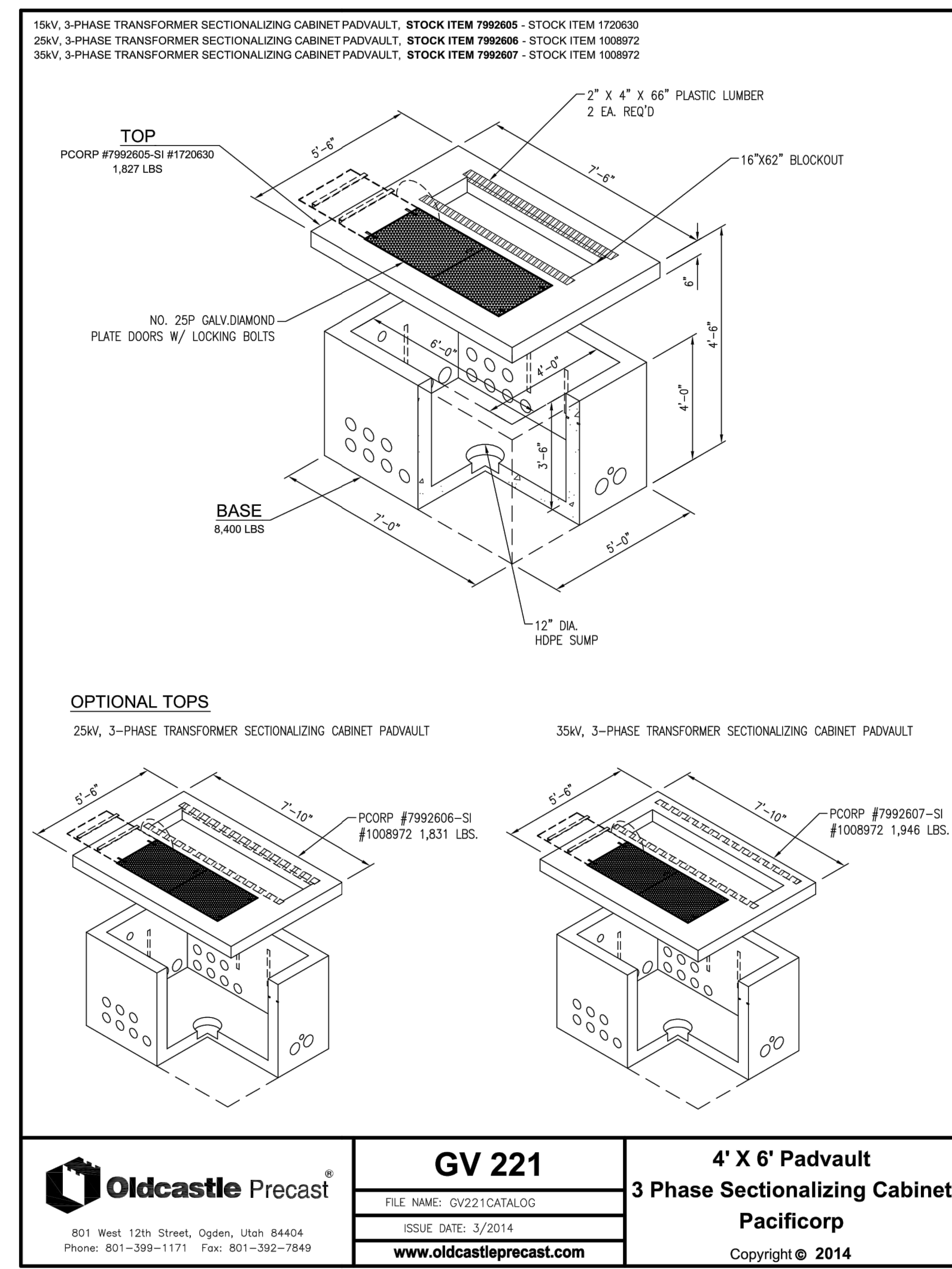
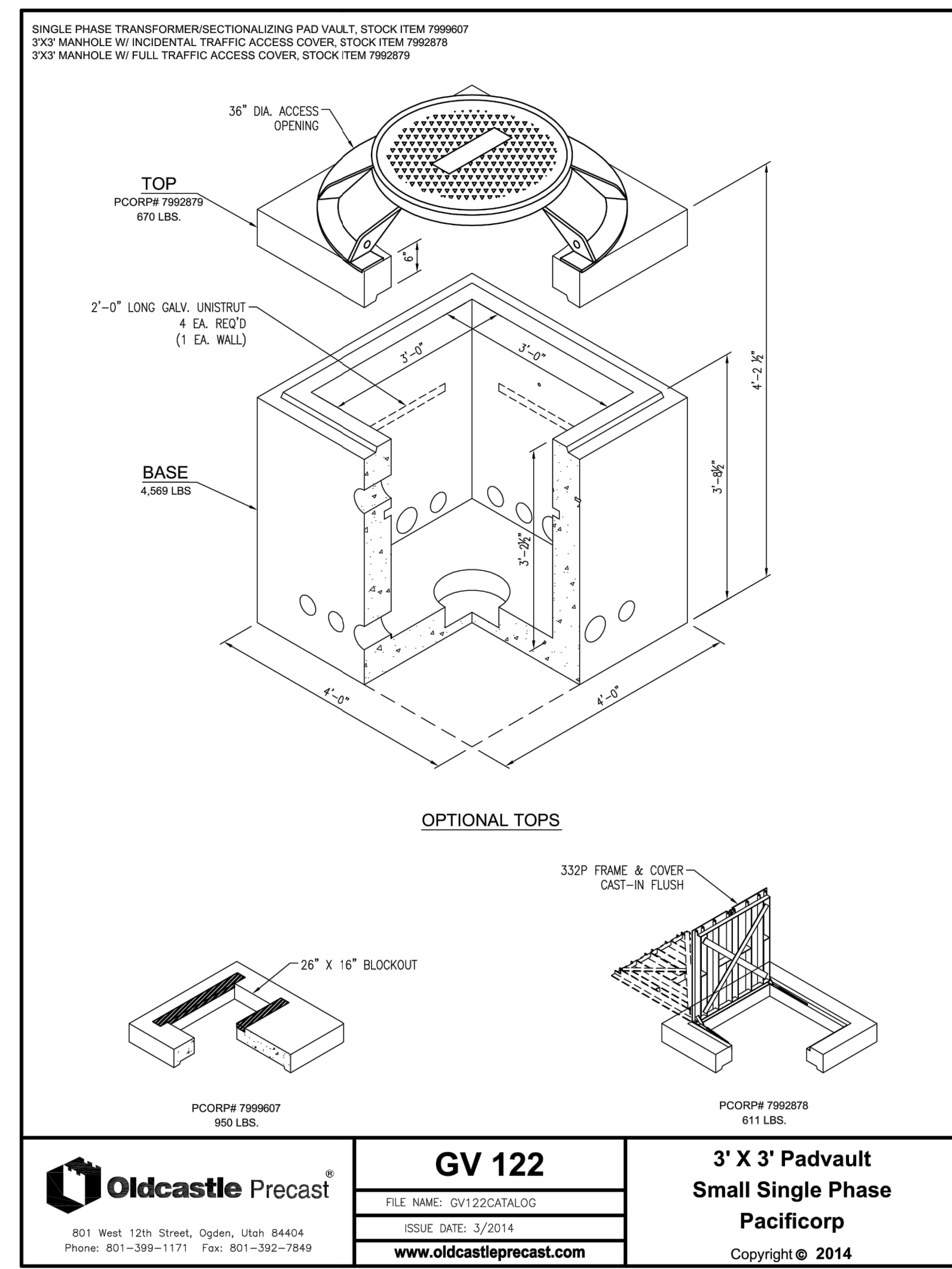


SHEET NUMBER
5.12

SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = N/A

JOB NUMBER
SLB079306





NO.	BY	DATE	REVISIONS
1	RWC	8/27/14	ADD ROW 1
2	RWC	7/27/14	REMOVE COUNTY REVIEW REVISIONS
3	RWC	7/27/14	COUNTY REVIEW

SUMMIT EDEN PHASE 1A
ELECTRICAL DETAILS

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

NV5
 BEYOND ENGINEERING
 627 SOUTH STATE STREET, SUITE 200
 80143.0000 TEL 80143.0000 FAX
 MURRAY, UT 84107
 WWW.NV5.COM

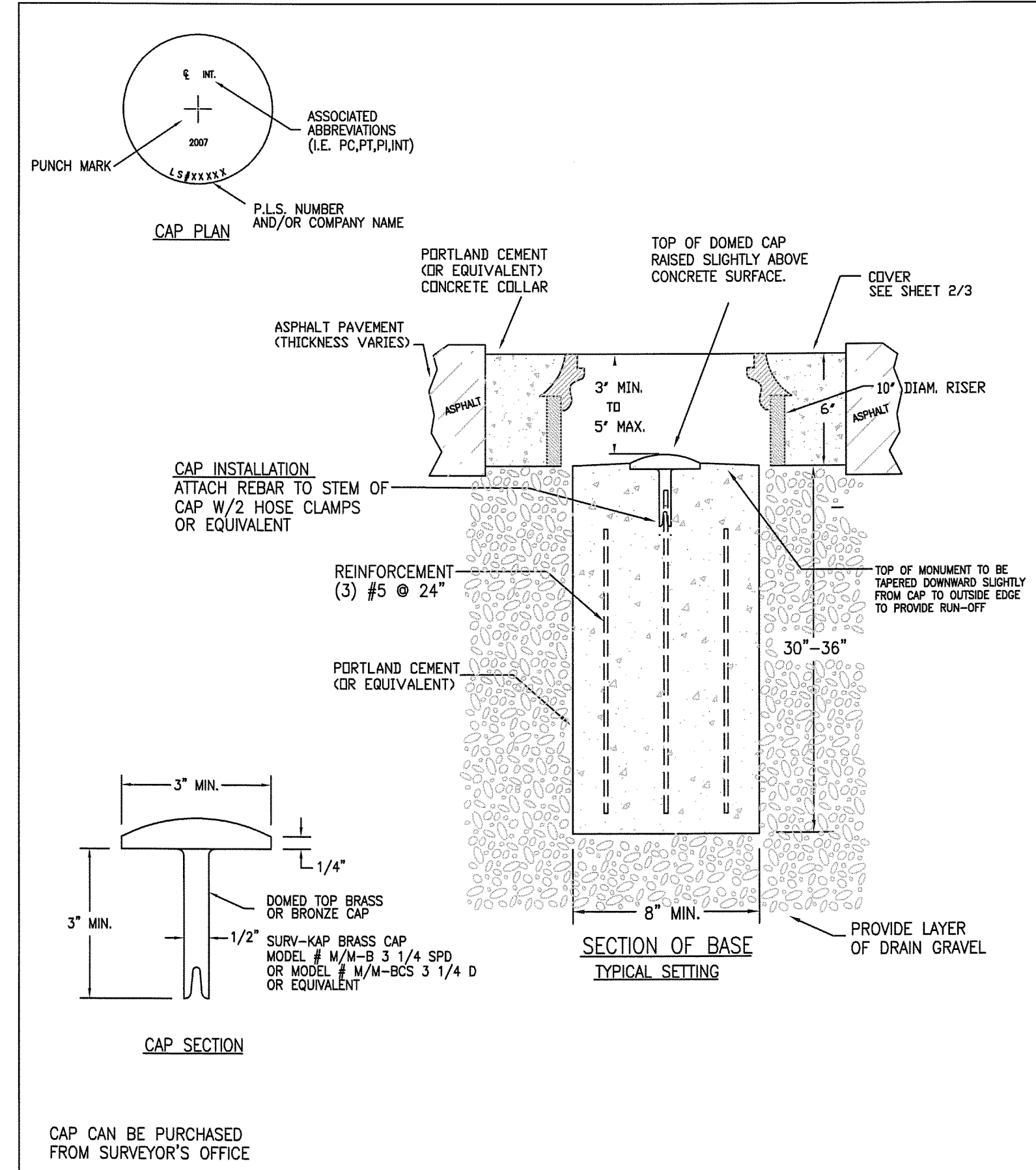
REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 2/5/14
 STATE OF UTAH

SHEET NUMBER
5.20

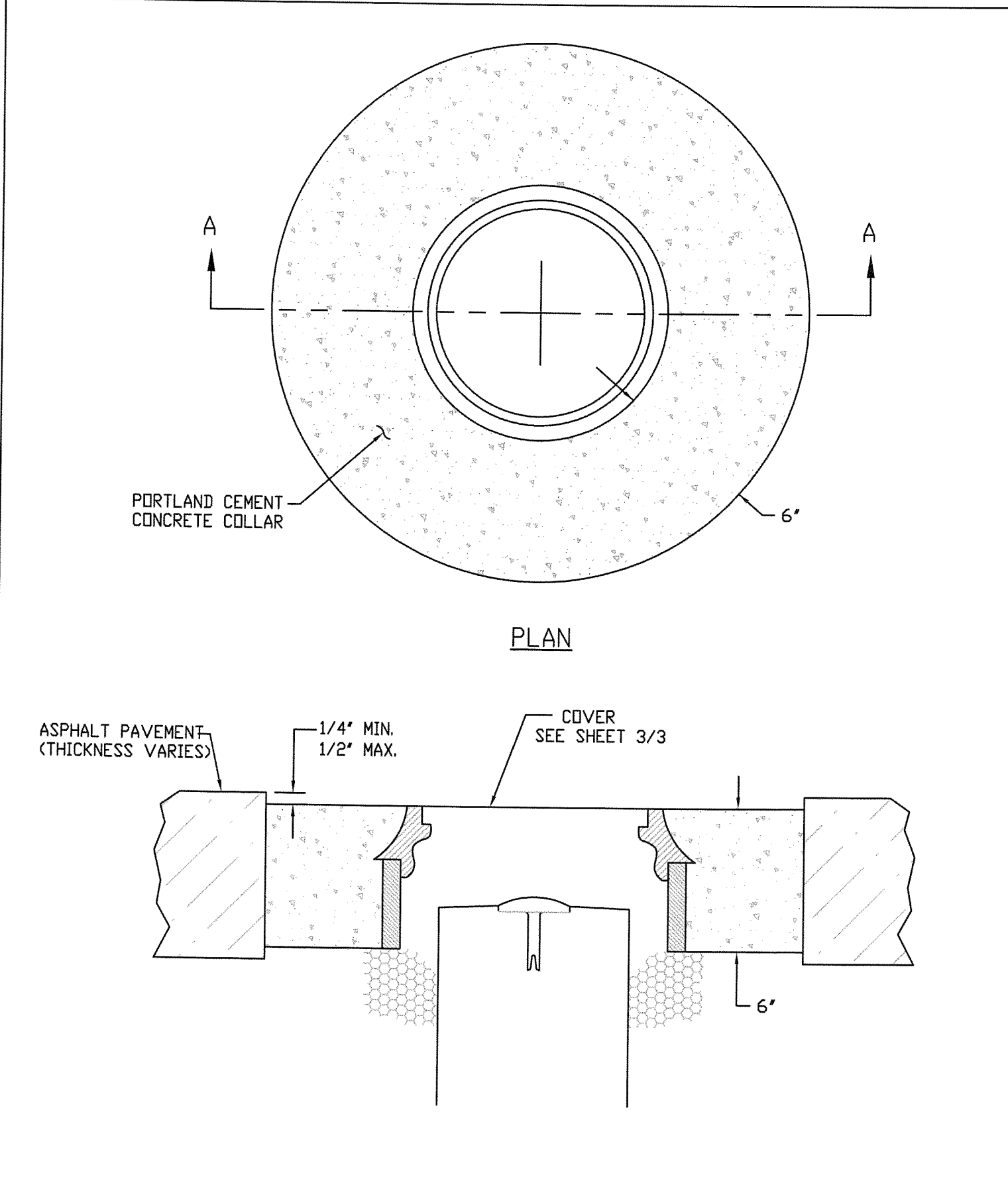
SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = N/A

JOB NUMBER
SLB079306

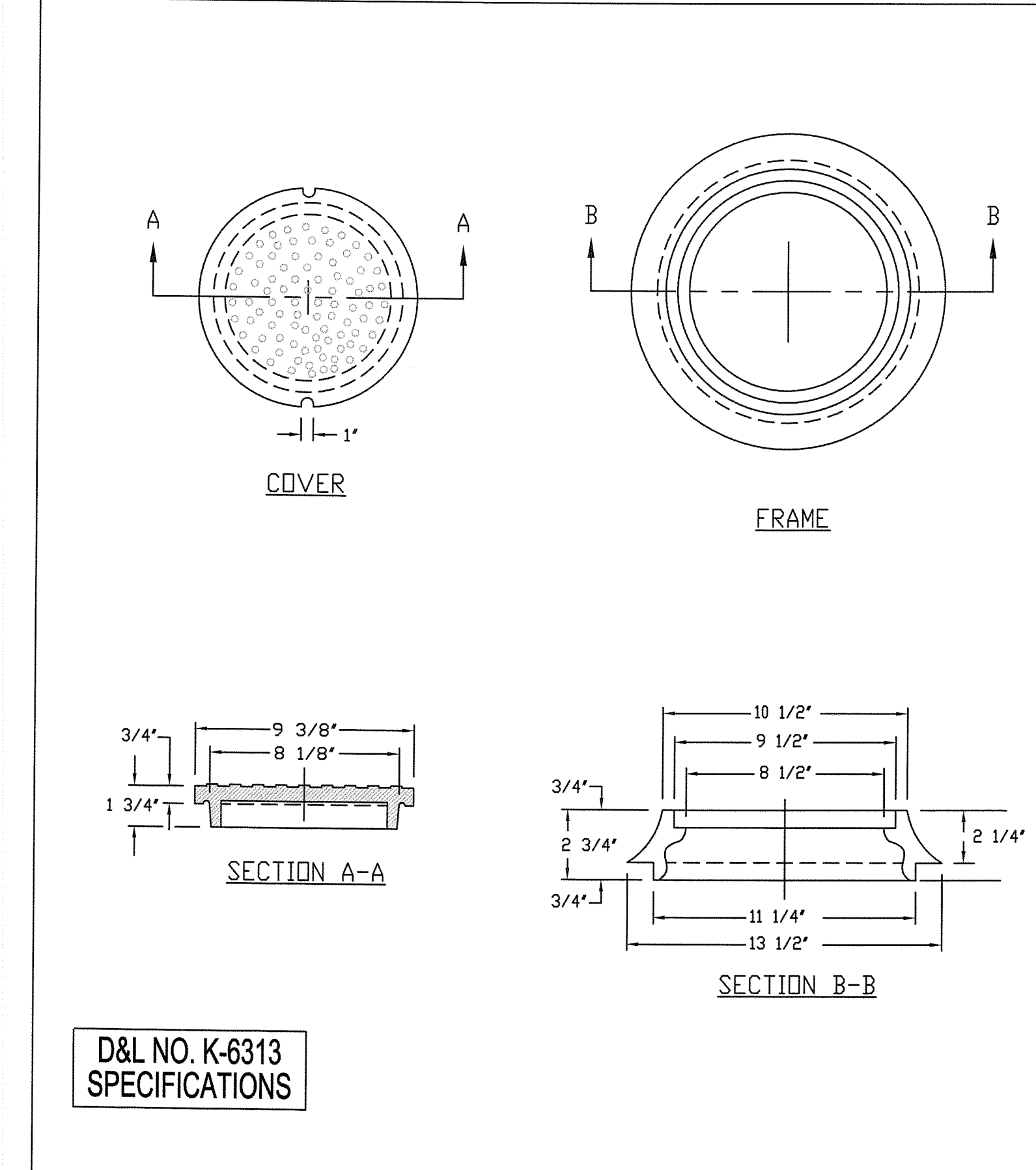




WEBER COUNTY SURVEY OFFICE	RING & LID SURVEY MONUMENT	STANDARD PLANS
		Monument Standard
3/28/10	399-8020	SHEET 1 OF 3



WEBER COUNTY SURVEY OFFICE	Cover Collar For Survey Monuments	STANDARD PLANS
		Monument Specifications
3/28/10	399-8020	SHEET 2 OF 3



WEBER COUNTY SURVEY OFFICE	RING & LID SURVEY MONUMENT	STANDARD PLANS
		Monument Specifications
3/28/10	399-8020	SHEET 3 OF 3

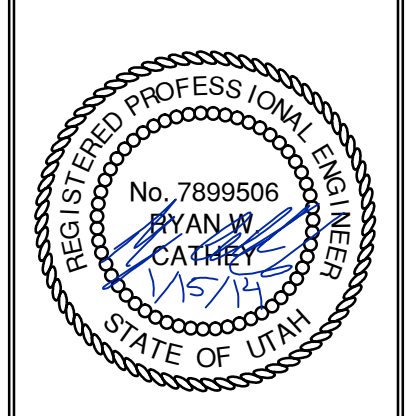
D&L NO. K-6313 SPECIFICATIONS

NO.	BY	DATE	REVISIONS
1	RWC	8/27/2013	ADDENDUM 1
2	RWC	1/25/2014	WEBER COUNTY REVIEW REVISIONS

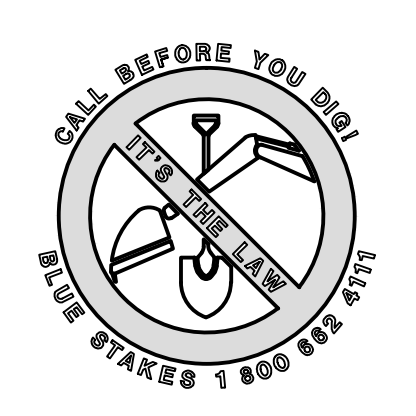
SUMMIT EDEN PHASE 1A
MISCELLANEOUS DETAILS

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC
 DATE SUBMITTED: 01/07/2014

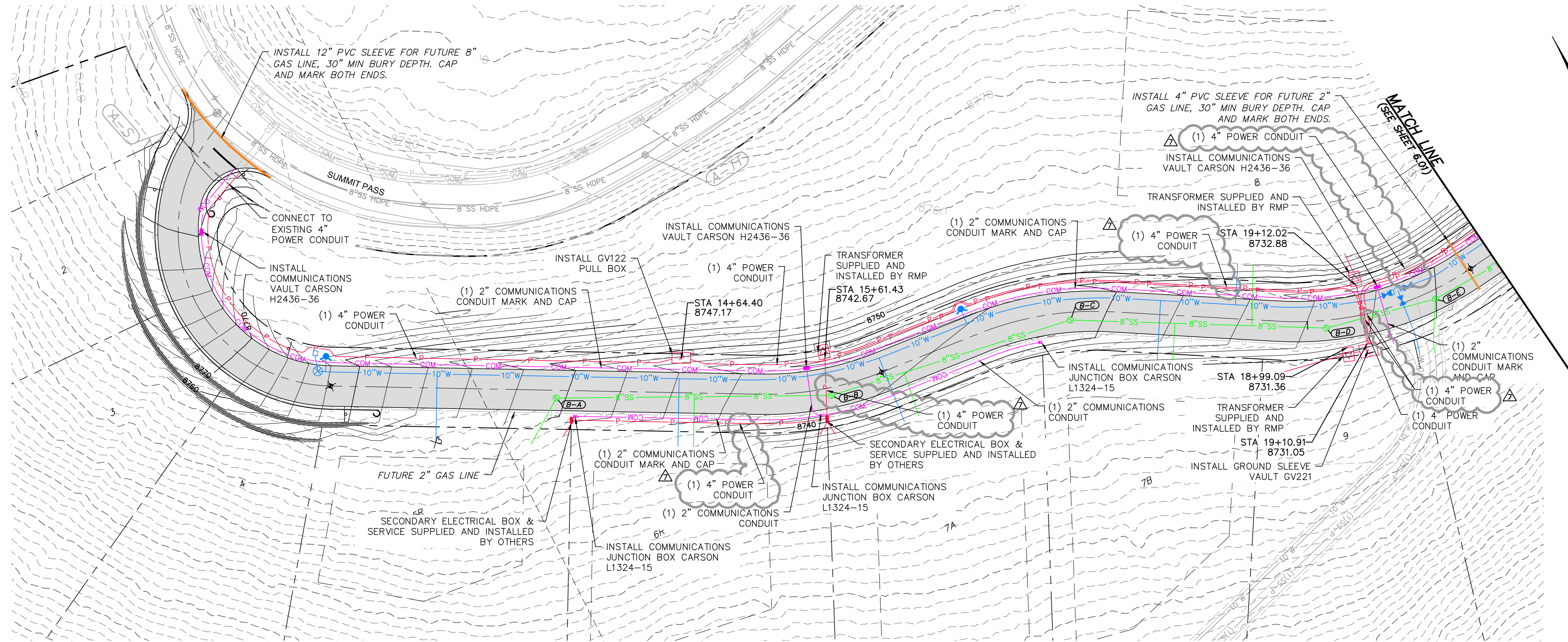
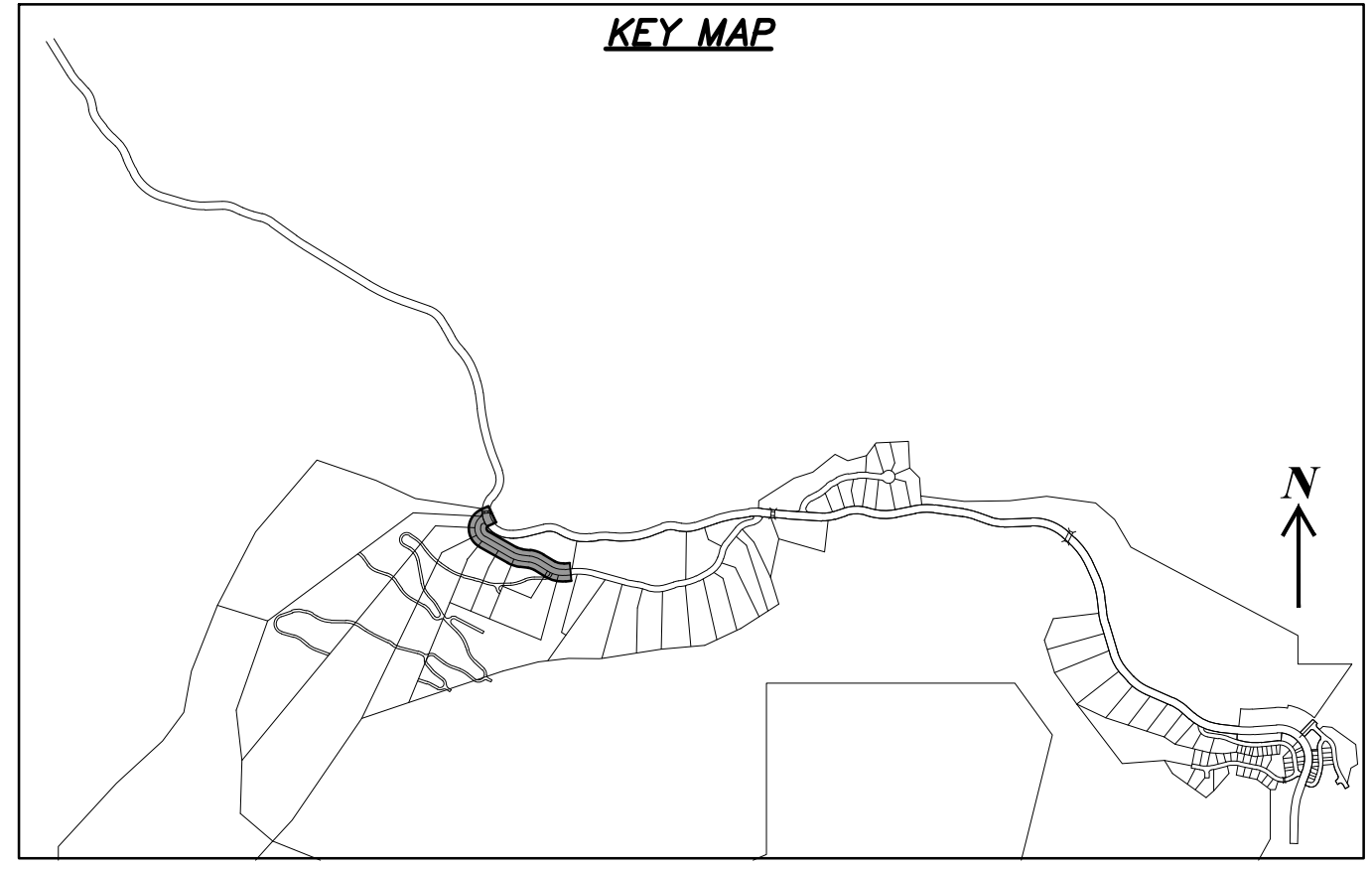
NV5
 BEYOND ENGINEERING
 627 SOUTH STATE STREET, SUITE 200
 801743.000 TEL. 801743.000 FAX
 MURRAY, UT 84107
 WWW.NV5.COM



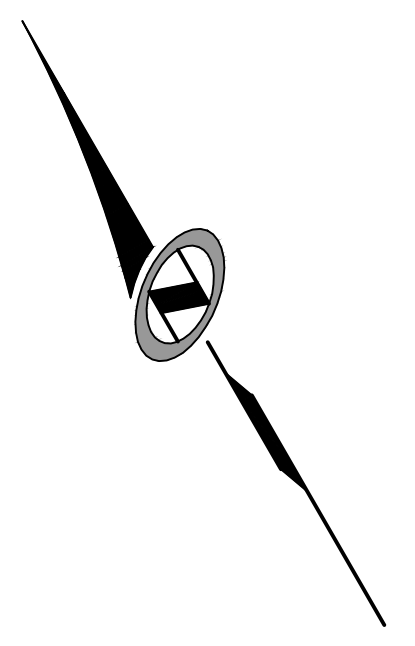
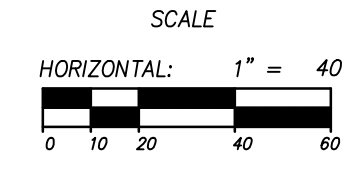
SHEET NUMBER	5.30
SCALE	VERTICAL: 1" = N/A HORIZONTAL: 1" = N/A
JOB NUMBER	SLB079306



DATE: 9/9/14 TIME: 2:21:22 PM DRAWING NAME: I:\PROJECTS\1400\PHASE 1\1400.P1-A
 SERVER: N:\SLB079300\PHASE 1\1400.P1-A
 PATH: N:\SLB079300\PHASE 1\1400.P1-A
 DESIGNED: TB
 PROJ. MGR: RE

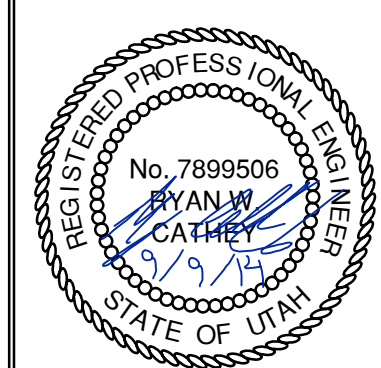


HORIZON RUN
 STA: 10+00.00 TO 20+00.00



SUMMIT EDEN PHASE 1A
DRY UTILITIES
HORIZON RUN

NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 MURRAY, UT 84107
 WWW.NV5.COM



SHEET NUMBER
6.00
 SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = 40'
 JOB NUMBER
SLB079306

NO.	BY	DATE	REVISIONS
4	RMC	7/25/2014	COUNTY REVIEW
5	RMC	8/27/2014	ERT JUDIT UPDATES
7	RMC	9/2/2014	REVISIONS, NOTES

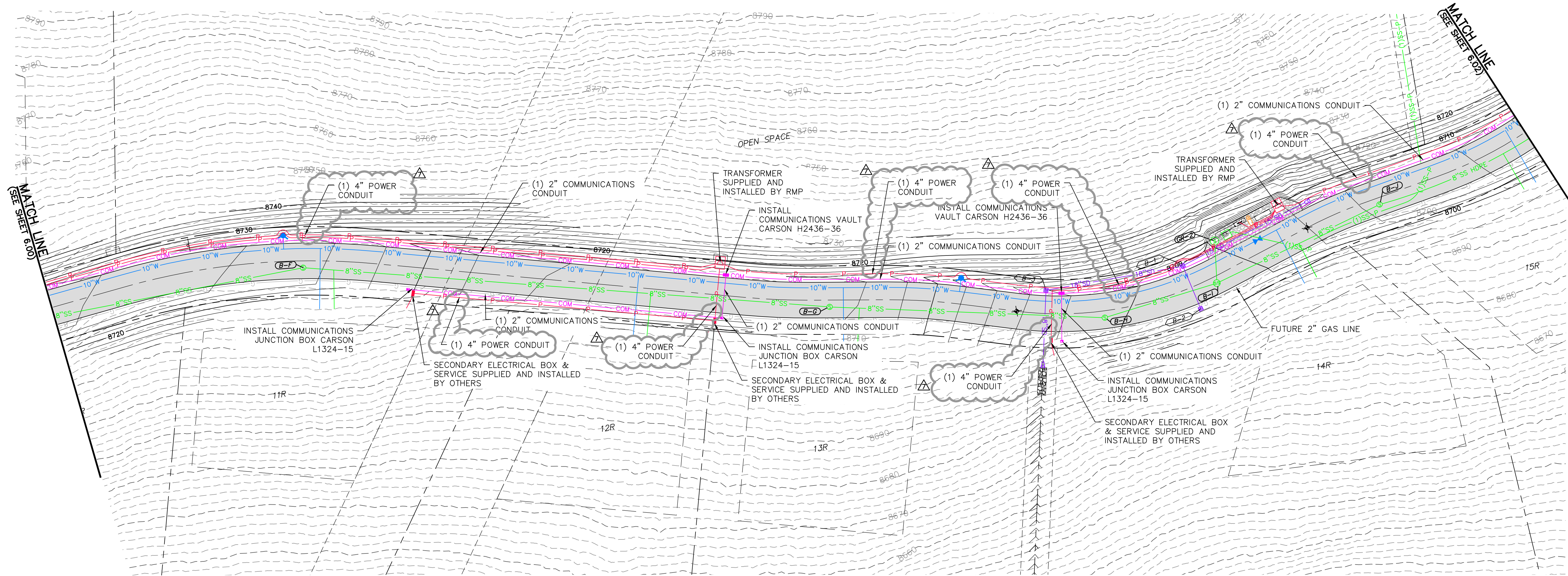
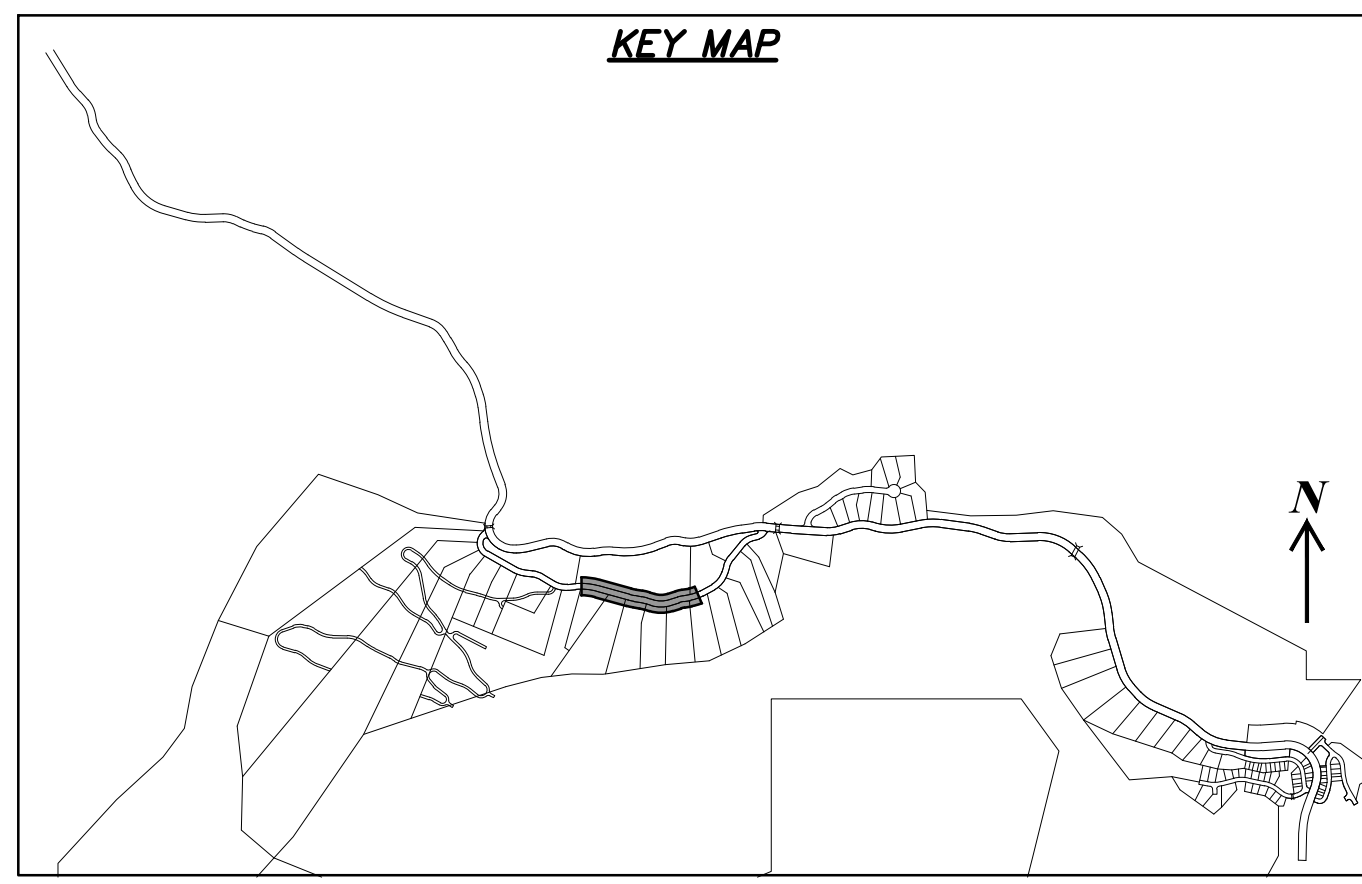
CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

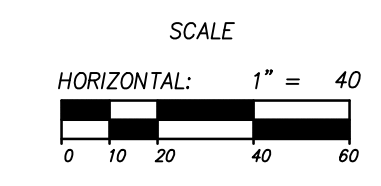


BOWDEN XREFS:

DATE: 9/9/14 TIME: 3:00:43 PM DRAWING NAME: PFD010.DWG
 SERVER: NONE PAGE SETUP: PFD_030-2436 LAYOUT: PFD010
 PATH: N:\SLB0793\CAD\PHASE 1\VP\PT-A_030000.TB PROJ. MGR: RE



HORIZON RUN
 STA: 20+00.00 TO 31+00.00



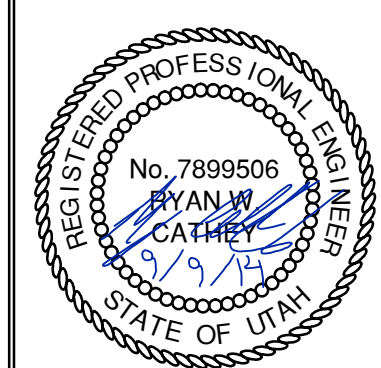
NO.	BY	DATE	REVISIONS
4	RMC	7/27/2014	COUNTY REVIEW
5	RMC	8/27/2014	ERT DUTY UPDATES
7	RMC	9/2/2014	REVISIONS, NOTES

The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans, and must be approved by the preparer of these plans.

SUMMIT EDEN PHASE 1A
DRY UTILITIES
HORIZON RUN

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

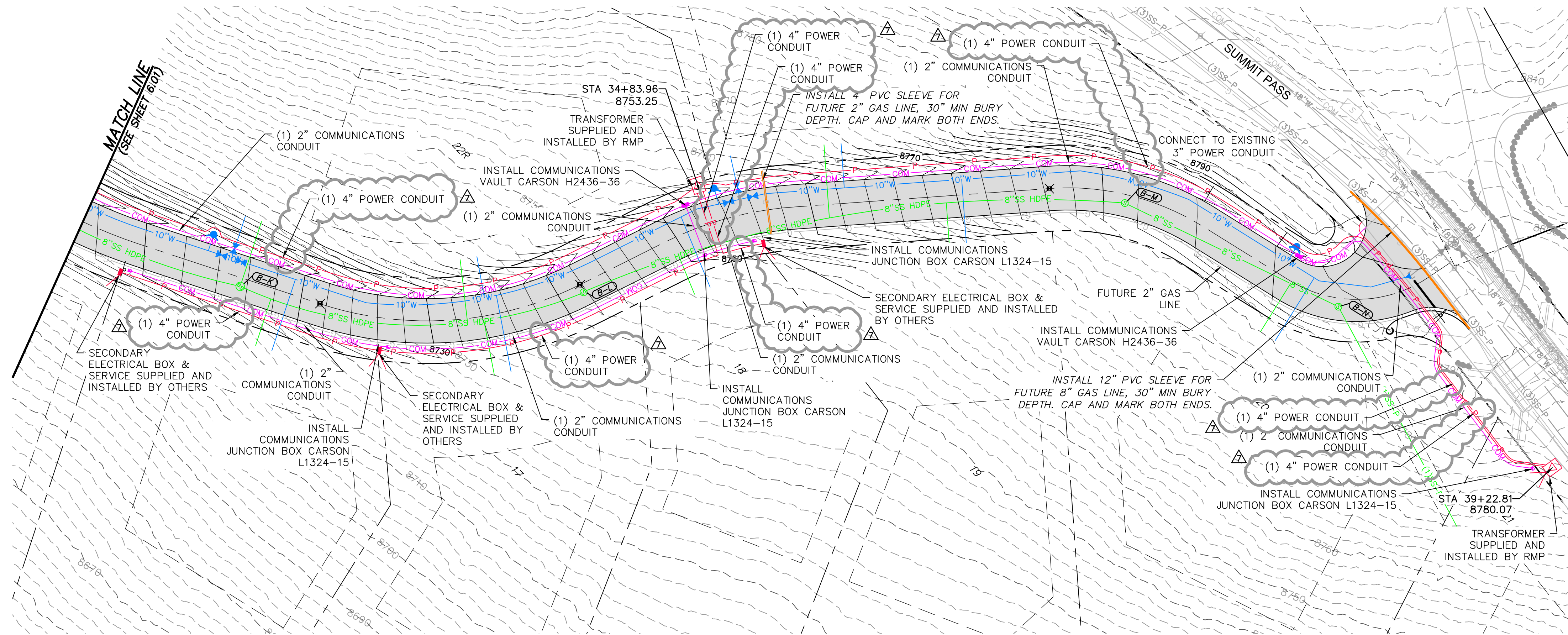
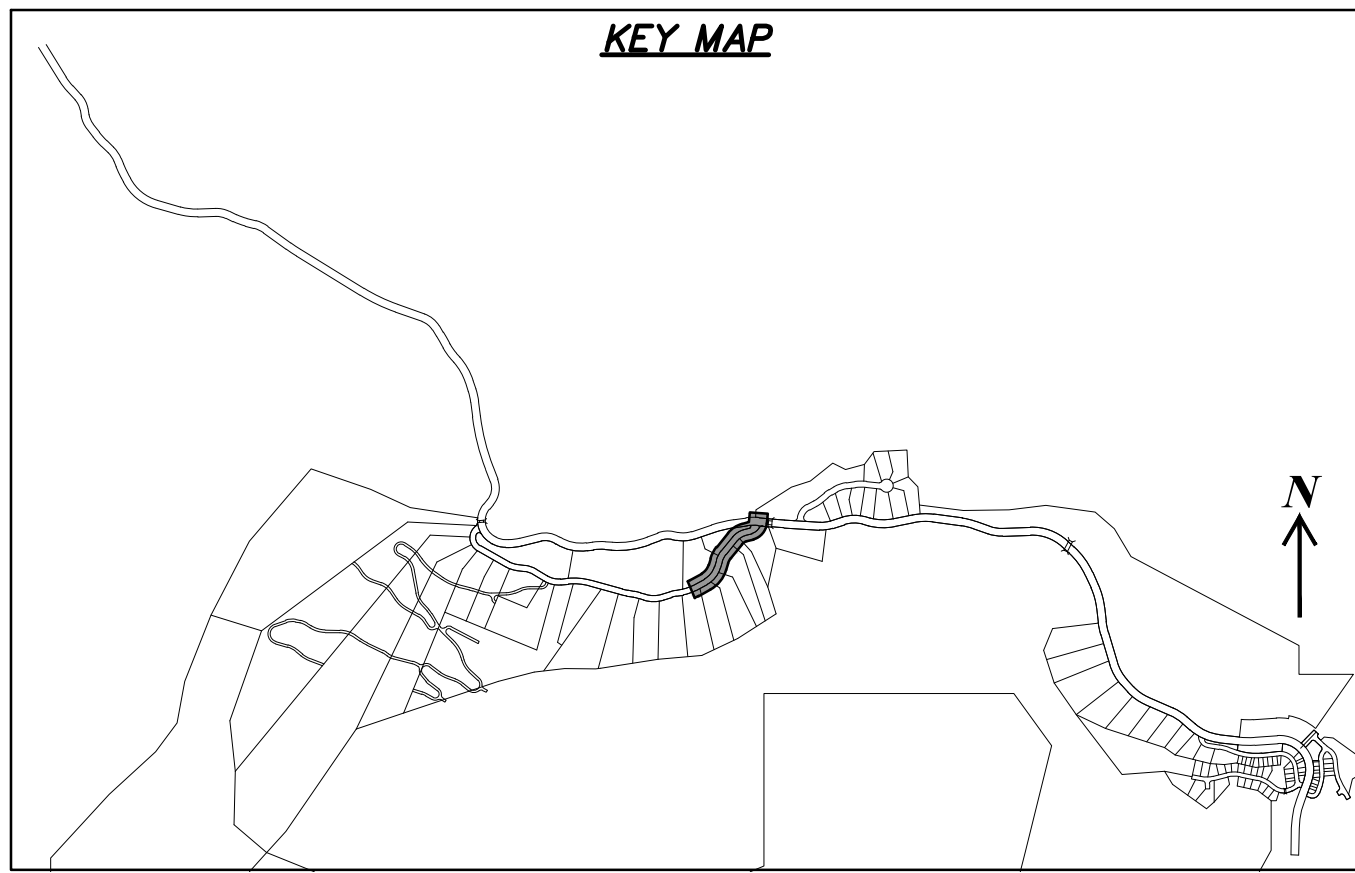
NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 801743.0000 TEL. 801743.0000 FAX
 MURRAY, UT 84107
 WWW.NV5.COM



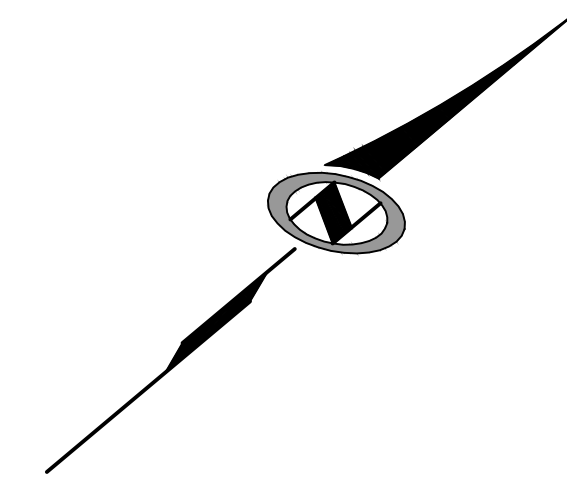
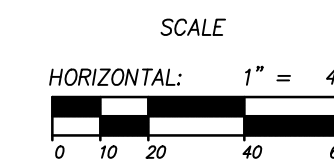
SHEET NUMBER	6.01
SCALE	VERTICAL: 1" = 40' HORIZONTAL: 1" = N/A
JOB NUMBER	SLB079306

BOWDEN XREFS:

DATE: 9/9/14 TIME: 3:24:04 PM DRAWING NAME: IPR020.DWG
 SERVER: NONE PAGE SETUP: PIP-130-24x36 LAYOUT: IPR020
 PATH: N:\B07930\CAD\PHASE 1\IPR020-1.dwg DESIGNED: TB PROJ. MGR: RE



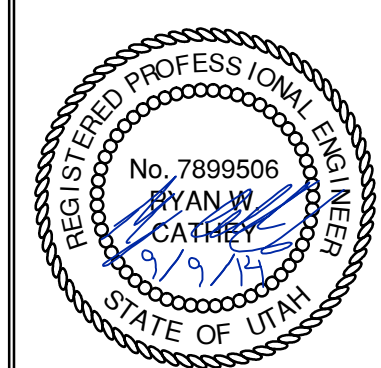
HORIZON RUN
 STA: 31+00.00 TO 39+39.62



BOWDEN
 XREES:

SUMMIT EDEN PHASE 1A
DRY UTILITIES
HORIZON RUN

NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 801743.0300 TEL. 801743.0300 FAX
 MURRAY, UT 84107
 WWW.NV5.COM



SHEET NUMBER
6.02
 SCALE
 VERTICAL: 1" = 40'
 HORIZONTAL: 1" = N/A
 JOB NUMBER
SLB079306

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 01/07/2014

NO.	BY	DATE	REVISIONS
4	RWC	7/27/2014	COUNTY REVIEW
5	RWC	8/27/2014	EXT. UTILITY UPDATES
7	RWC	9/2/2014	ELECTRICAL UPDATES

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

