

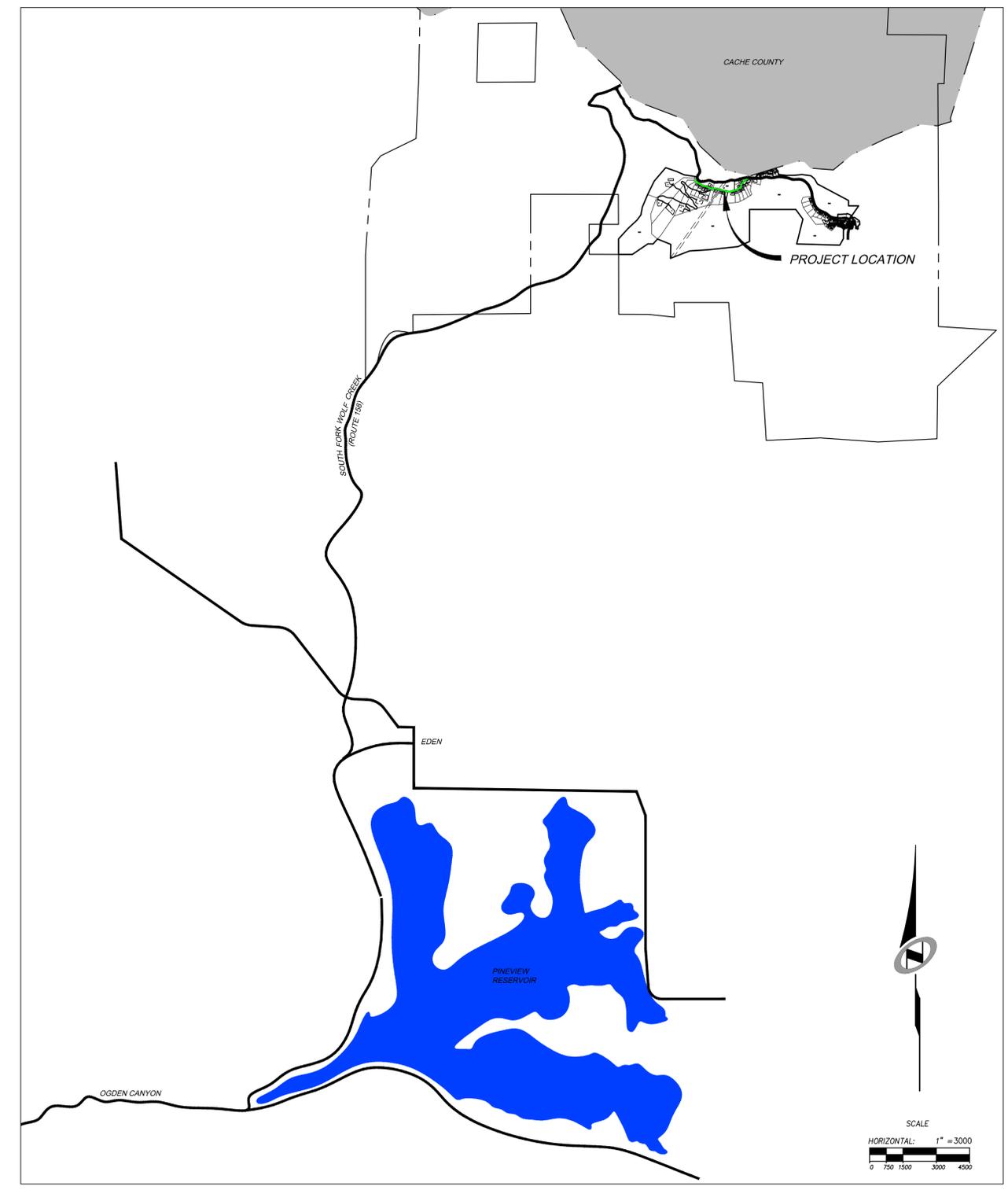
DATE: 12/11/13 TIME: 9:46:15 AM DRAWING NAME: P1001.DWG  
 SERVER: NONE PAGE SETUP: P1001-13-24-08 LAYOUT: LAYOUT1  
 PATH: N:\SUBPROJECTS\CAD\PHASE 1\VP\P1-A\_000000\_###.DWG PROJ. MGR: ###

BOWDEN  
 XREFS:

# 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
1.05	TYPICAL ROADWAY 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
5.10	SEWER DETAILS
5.20	ELECTRICAL DETAILS
5.30	MISCELLANEOUS DETAILS
	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

NO.	BY	DATE	REVISIONS
1	RWC	8/27/2013	ADDendum 1
2	RWC	9/24/2013	UTILITY, GRADING, AND ROCKERY REV

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.

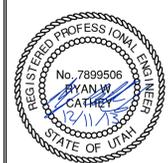
**SUMMIT EDEN PHASE 1A**

**CIVIL TITLE SHEET**

DATE SUBMITTED: 12/11/2013

PREPARED FOR: SUMMIT, LLC

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



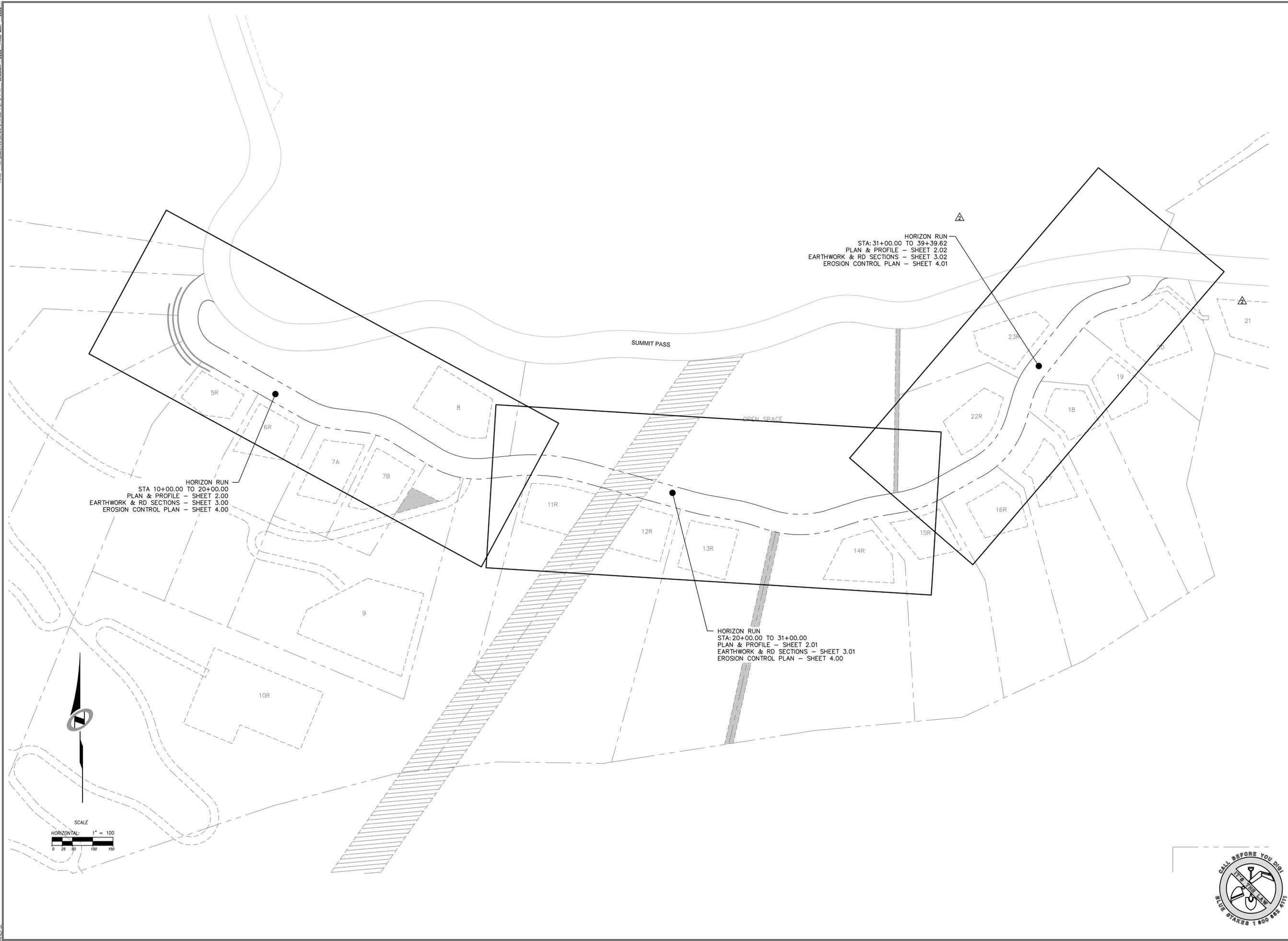
SHEET NUMBER  
**1.00**

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

JOB NUMBER  
**SLB079306**



DATE: 12/13/13 TIME: 9:45:40 AM DRAWING NAME: P:\0204\DWG  
 SERVER: NONE PAGE SETUP: P:\0204\24-08 LAYOUT: LAYOUT1  
 PATH: N:\SUB\0204\CADD\PHASE 1\0204\1-A DESIGNER: ### PROJ. MGR: ###



NO.	BY	DATE	REVISIONS
1	PMC	8/27/2013	ADDITIONAL UTILITY, GRADING, AND SOCKET REV
2	PMC	9/24/2013	

The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. The user of these plans is advised that they are not to be used for any purpose other than that intended and must be approved by the preparer of these plans.

CAUTION

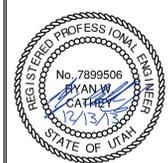
# SUMMIT EDEN PHASE 1A

## SHEET KEYMAP

PREPARED FOR: SUMMIT, LLC

DATE SUBMITTED: 12/13/2013

**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

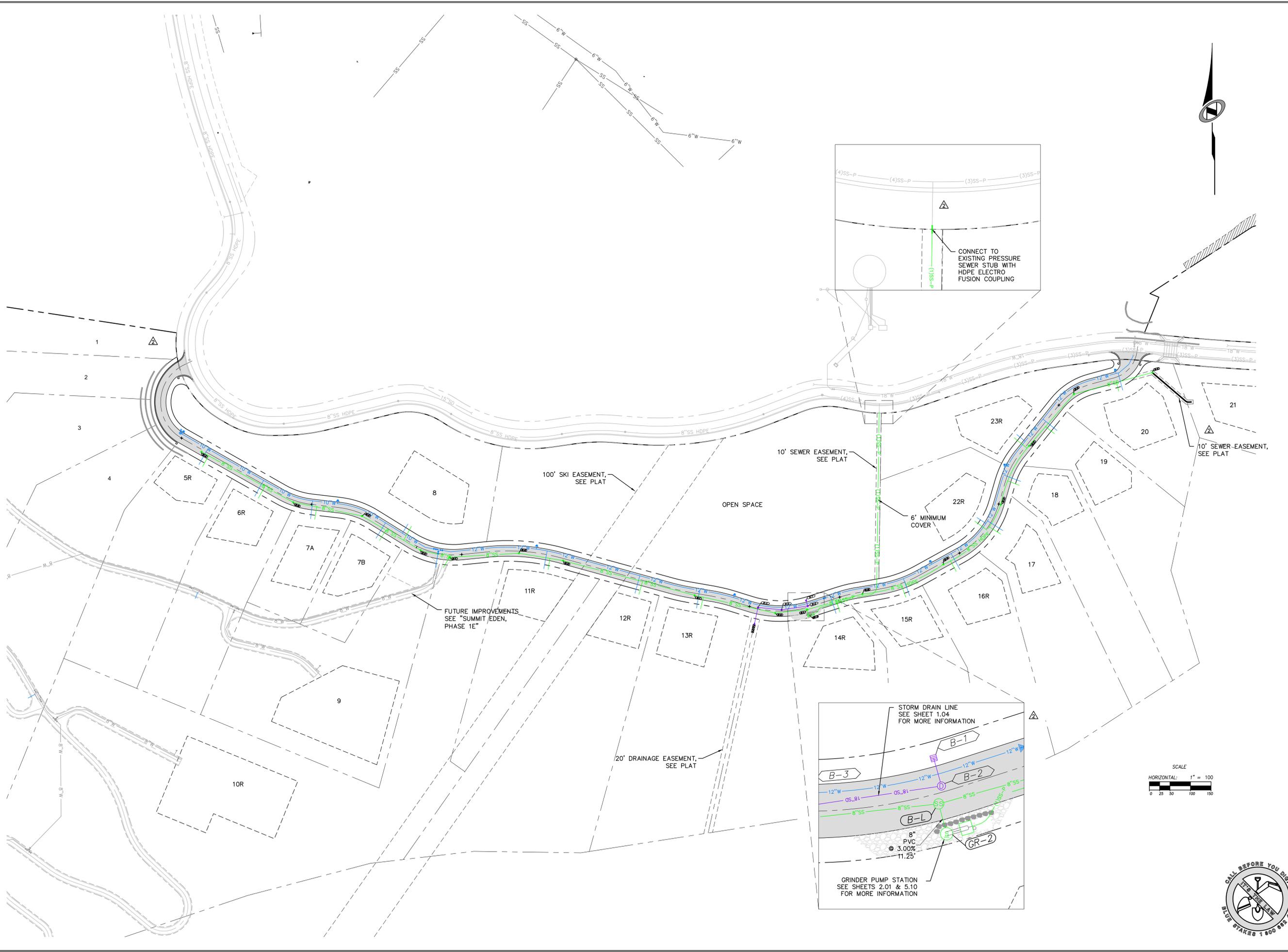
JOB NUMBER  
**SLB079306**



BOWDEN  
 XREES:

DATE: 12/13/13 TIME: 9:47:11 AM DRAWING NAME: P10301.DWG  
 SERVER: NONE PAGE SETUP: P10301-24-38 LAYOUT: LAYOUT1  
 PATH: N:\SLB0793\CAD\PHASE 1\VP1-P1-A\_03.DWG PROJ. NO: 0000

BOWDEN  
 XREES:



NO.	BY	DATE	REVISIONS
1	RWC	8/27/2013	ADDITIONAL UTILITY, GRADING, AND SOCKET REV
2	RWC	9/24/2013	

**SUMMIT EDEN PHASE 1A**  
**OVERALL UTILITY PLAN**

DATE SUBMITTED: 12/13/2013

PREPARED FOR: SUMMIT, LLC

**NV5**  
 BEYOND ENGINEERING

6217 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  
 12/13/13  
 STATE OF UTAH

SHEET NUMBER  
**1.03**

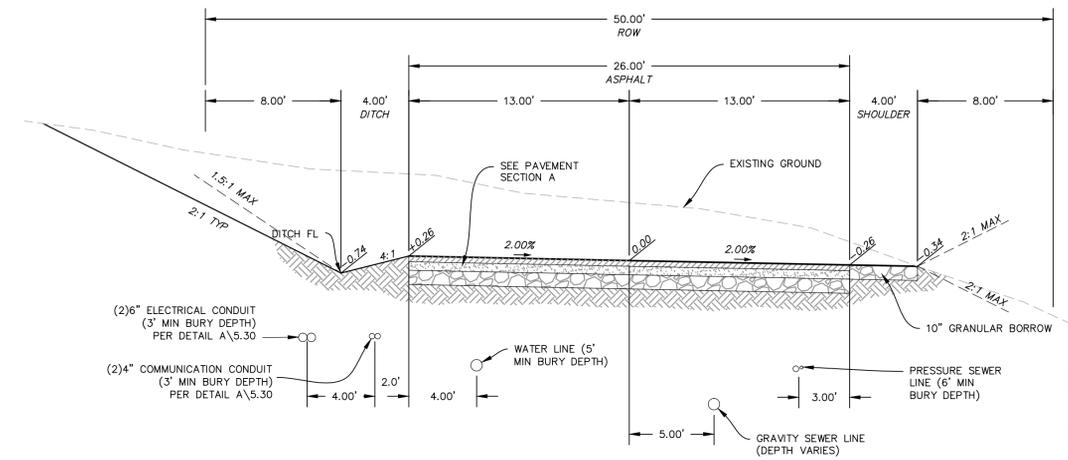
SCALE  
 VERTICAL: 1" = 10'  
 HORIZONTAL: 1" = 100'

JOB NUMBER  
**SLB079306**

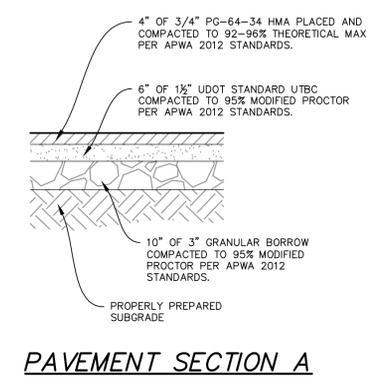


CAUTION  
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

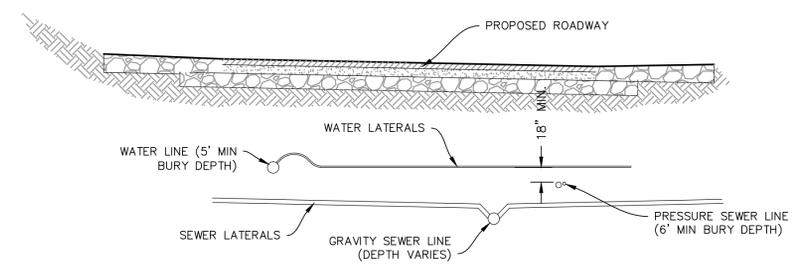




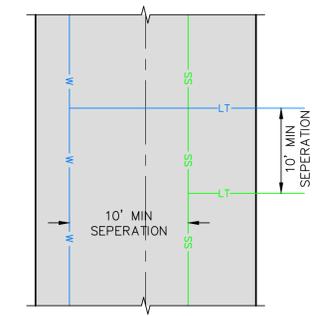
**TYPICAL ROADWAY SECTION A-A**  
 (50' RIGHT OF WAY SECTION)  
 STA: 10+00.00 TO 18+14.86



**PAVEMENT SECTION A**



**SECTION**  
**WATER AND SEWER SEPARATION DETAIL**



**PLAN**

FOR CUT AND FILL SLOPES GREATER THAN 2:1 REFER TO GEOTECHNICAL REPORT AND SUPPLEMENTAL LETTERS FOR SPECIAL STABILIZATION REQUIREMENTS.

NO.	BY	DATE	REVISIONS
1	RHC	8/27/2013	ADDENDUM 1
2	RHC	9/24/2013	UTILITY, GRADING, AND ROCKERY REV.

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.

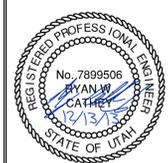
**SUMMIT EDEN PHASE 1A**

**ROADWAY TYPICAL SECTIONS**

DATE SUBMITTED: 12/13/2013

PREPARED FOR: SUMMIT, LLC

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



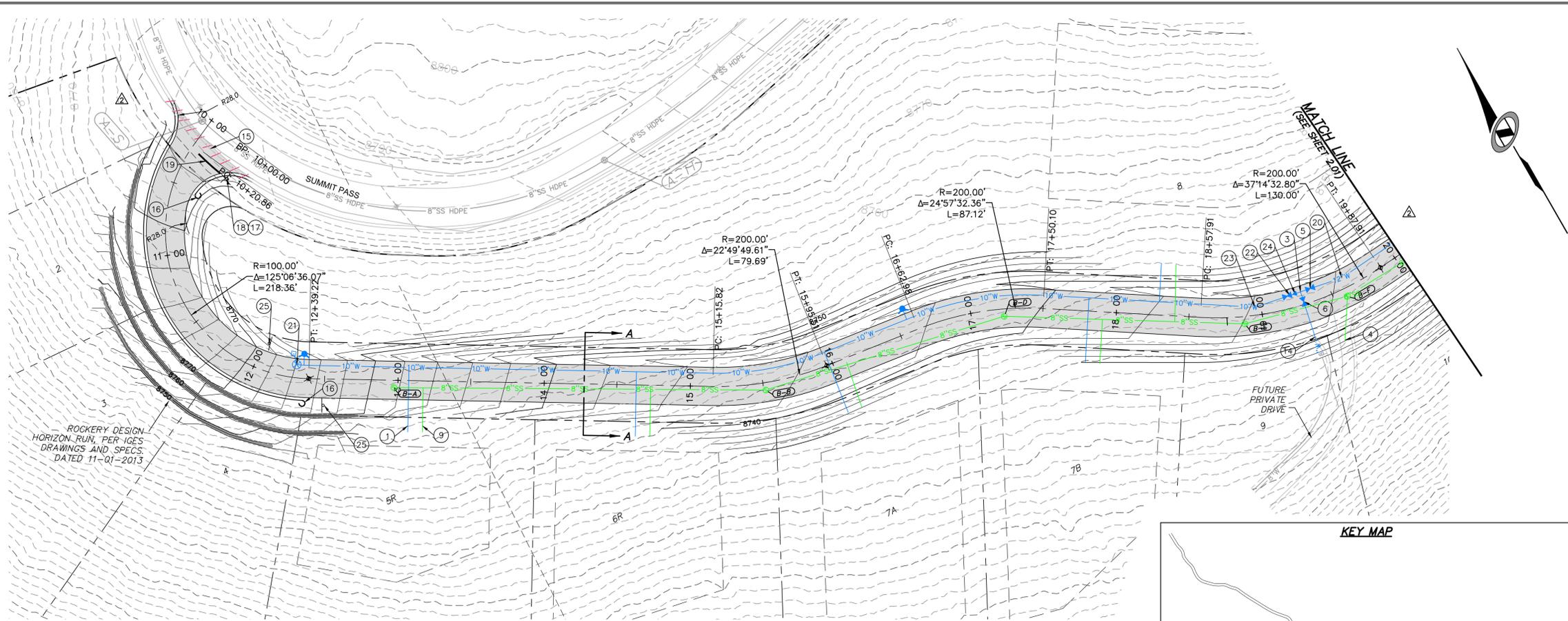
SHEET NUMBER  
**1.05**

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

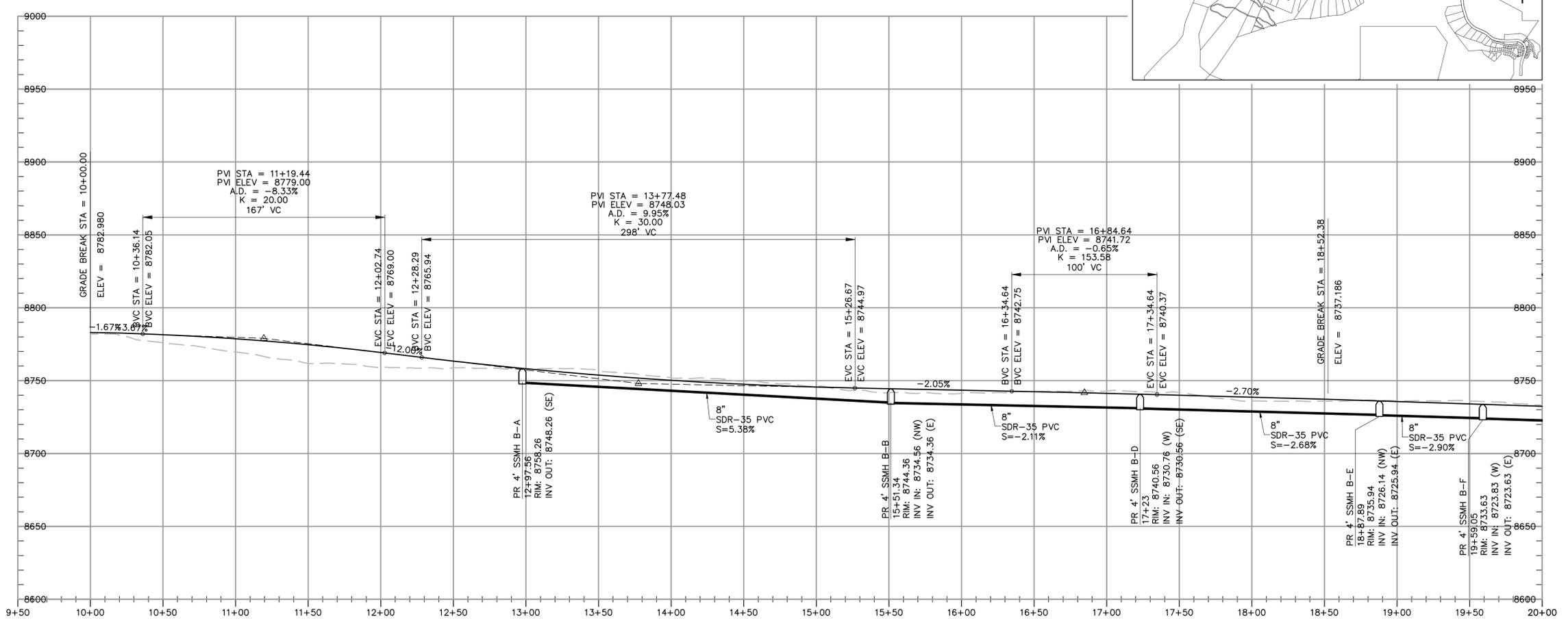
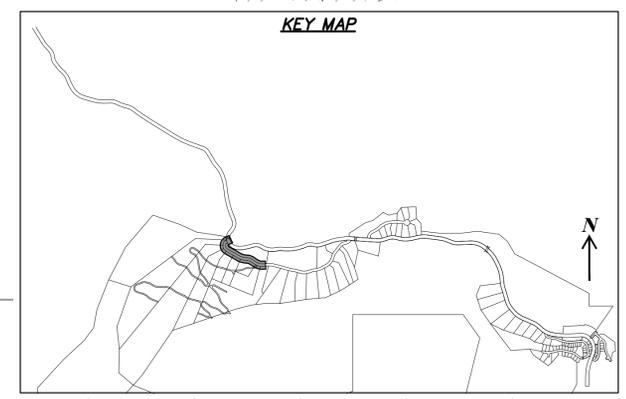
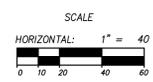
JOB NUMBER  
**SLB079306**



DATE: 12/13/13 TIME: 9:49:36 AM DRAWING NAME: P2009P.DWG  
 SERVER: NONE PLOT SETUP: P20-130-24-36 LAYOUT: LAYOUT1  
 PATH: N:\B07930\AD\PHASE 1\B07930-1A.dwg DESIGNED: TB PROJ. MGR: RE



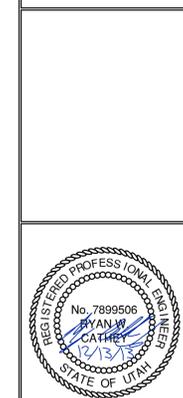
**HORIZON RUN**  
 STA: 10+00.00 TO 20+00.00



NO.	BY	DATE	REVISIONS
1	PMC	8/27/2013	ADDITION 1
2	PMC	8/27/2013	UTILITY, GRADING, AND ROCKERY REV

**SUMMIT EDEN PHASE 1A**  
**PLAN AND PROFILE**  
**HORIZON RUN**

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



SHEET NUMBER  
**2.00**

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

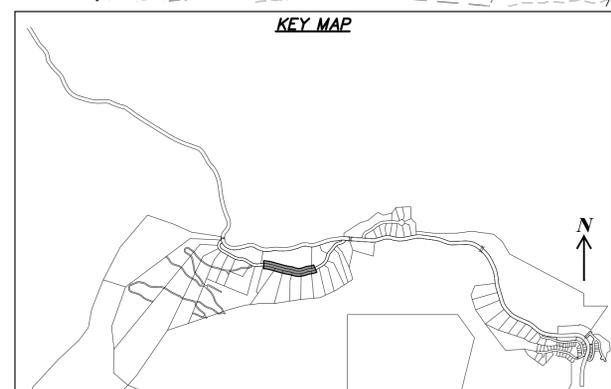
JOB NUMBER  
**SLB079306**

DATE SUBMITTED: 12/13/2013

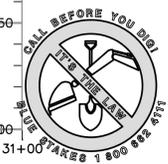
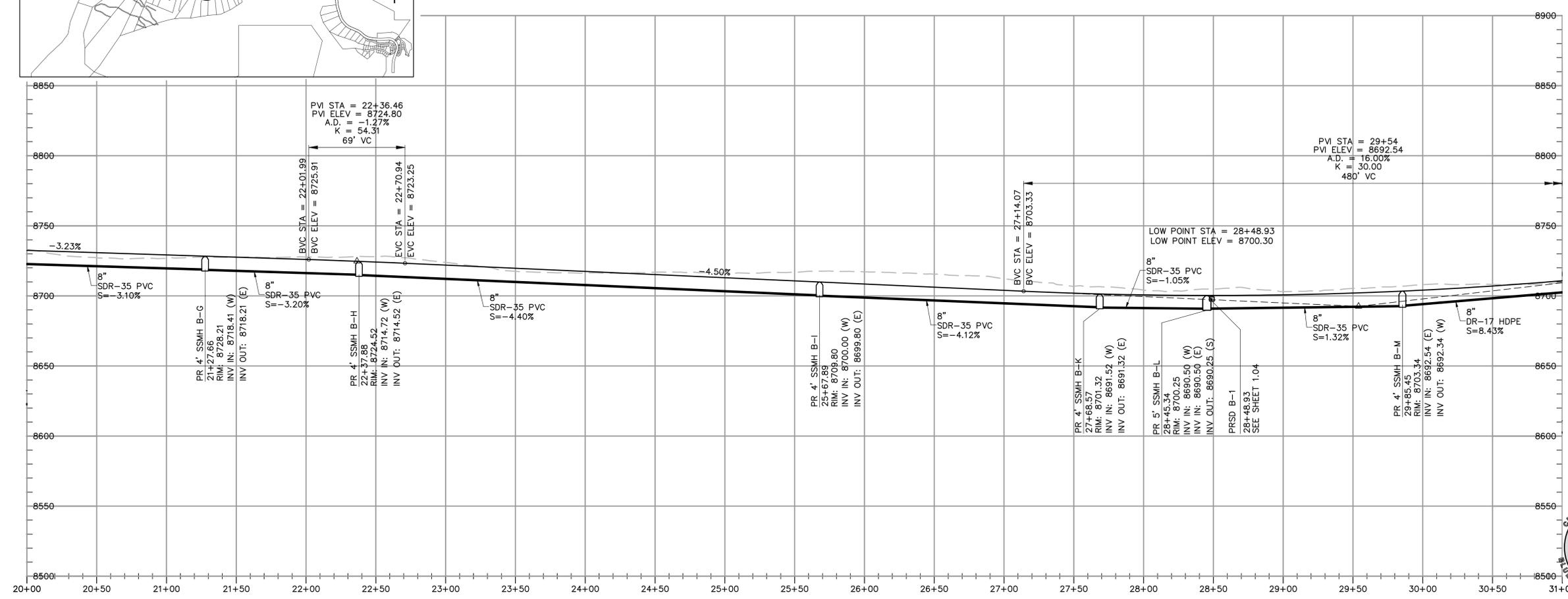
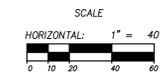
PREPARED FOR: SUMMIT, LLC

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

DATE: 12/13/13 TIME: 9:50:43 AM DRAWING NAME: P2010P.DWG  
 SERVER: NONE PAGE SETUP: P2010-24x36 LAYOUT: LAYOUT1  
 PATH: N:\B07930\CAD\PHASE 1\DWG\1-A\_03.DWG TB PROJ MOR: RE



**HORIZON RUN**  
 STA: 20+00.00 TO 31+00.00

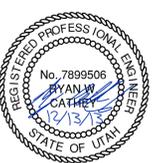


NO.	BY	DATE	REVISIONS
1	PMC	8/27/2013	ADDENDUM 1
2	PMC	8/27/2013	UTILITY, GRADING, AND SLOPEY REV

**SUMMIT EDEN PHASE 1A**  
**PLAN AND PROFILE**  
**HORIZON RUN**

DATE SUBMITTED: 12/13/2013

PREPARED FOR: SUMMIT, LLC

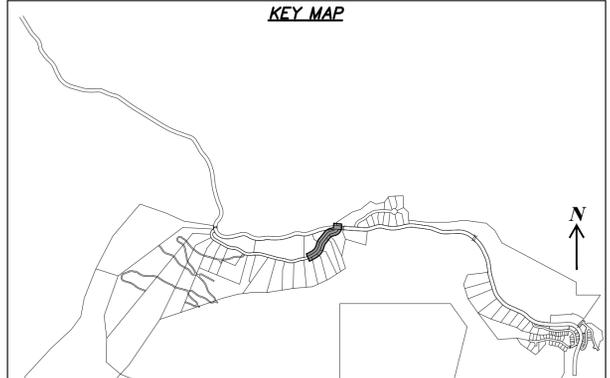
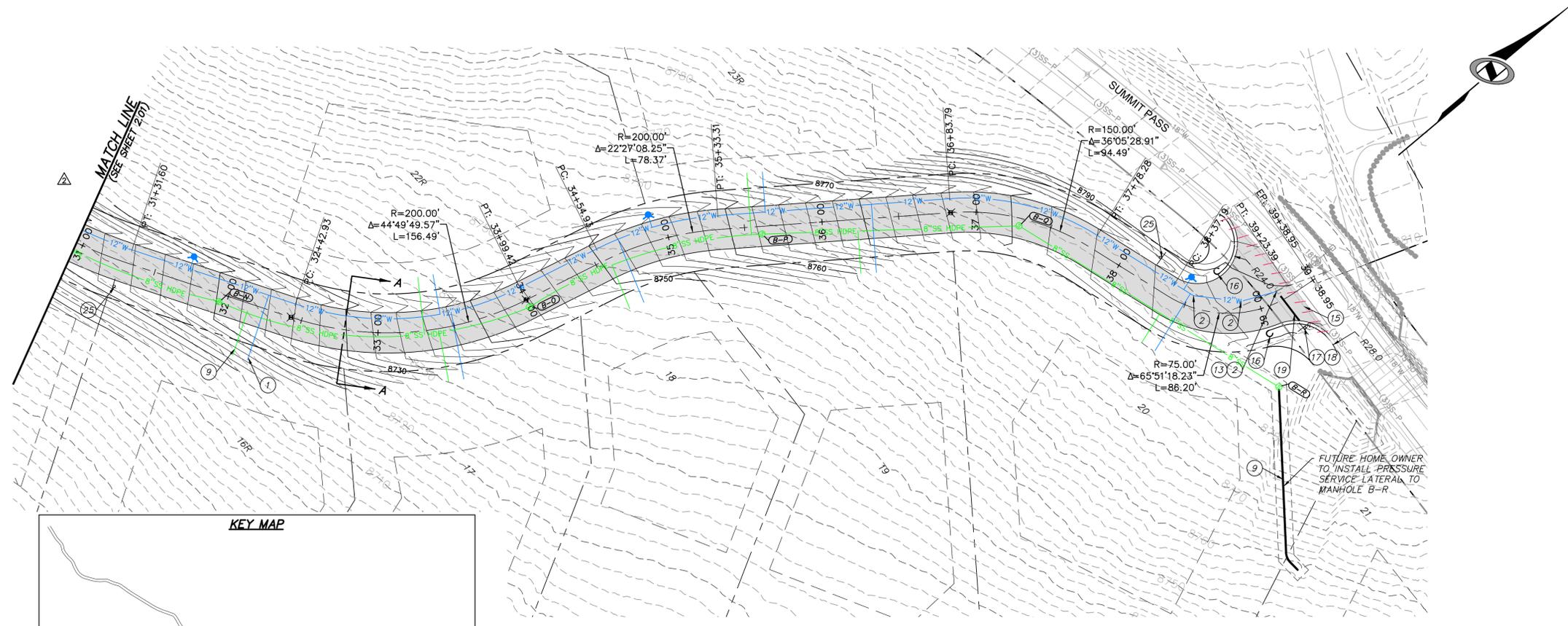


SHEET NUMBER  
**2.01**

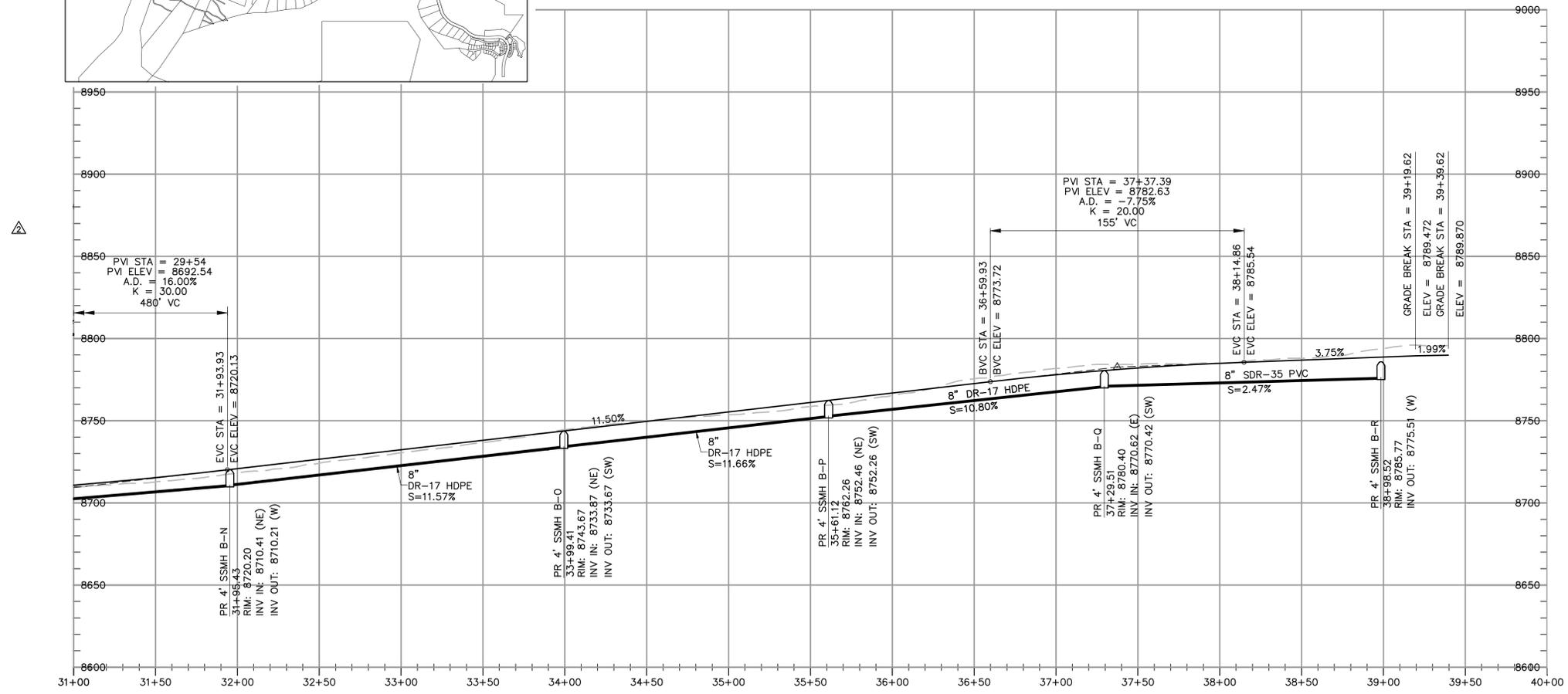
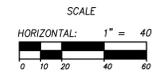
SCALE  
 VERTICAL: 1" = 40'  
 HORIZONTAL: 1" = 40'

JOB NUMBER  
**SLB079306**

BOWDEN XREFS:

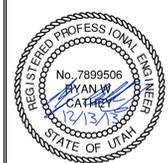
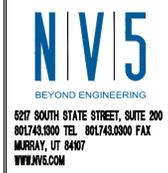


**HORIZON RUN**  
 STA: 31+00.00 TO 39+39.62



NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADDENDUM 1
2	RMC	8/27/2013	UTILITY, GRADING, AND ROCKET REV

**SUMMIT EDEN PHASE 1A**  
**PLAN AND PROFILE**  
**HORIZON RUN**



SHEET NUMBER  
**2.02**

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

JOB NUMBER  
**SLB079306**

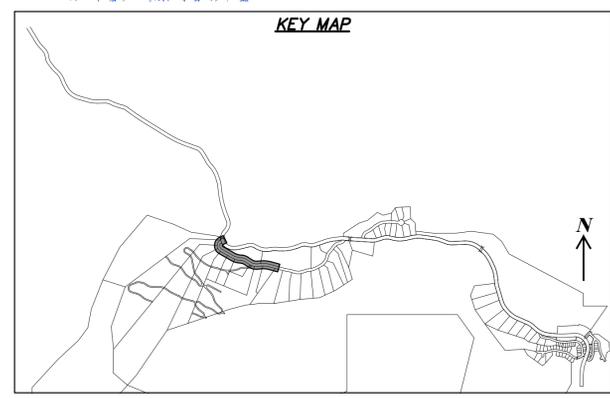
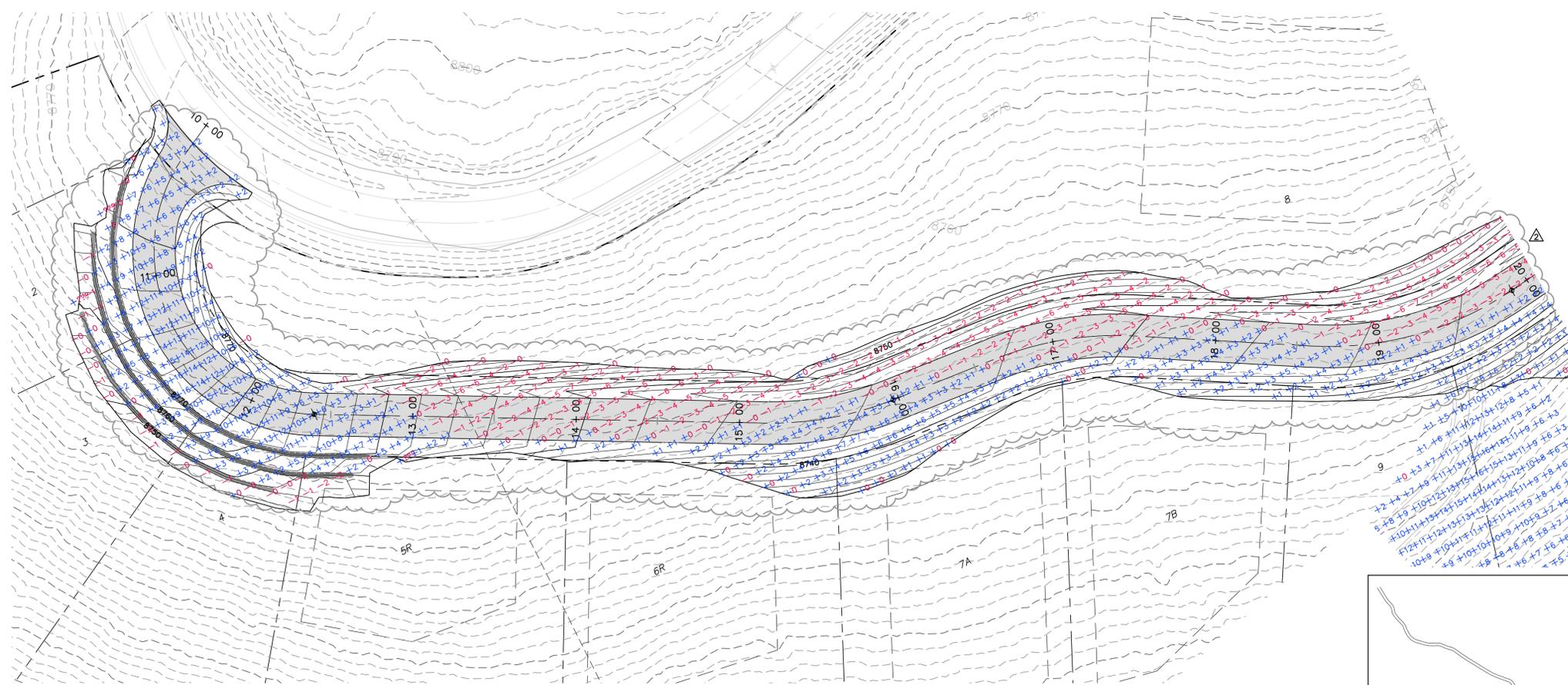
DATE SUBMITTED: 12/13/2013

PREPARED FOR: SUMMIT, LLC

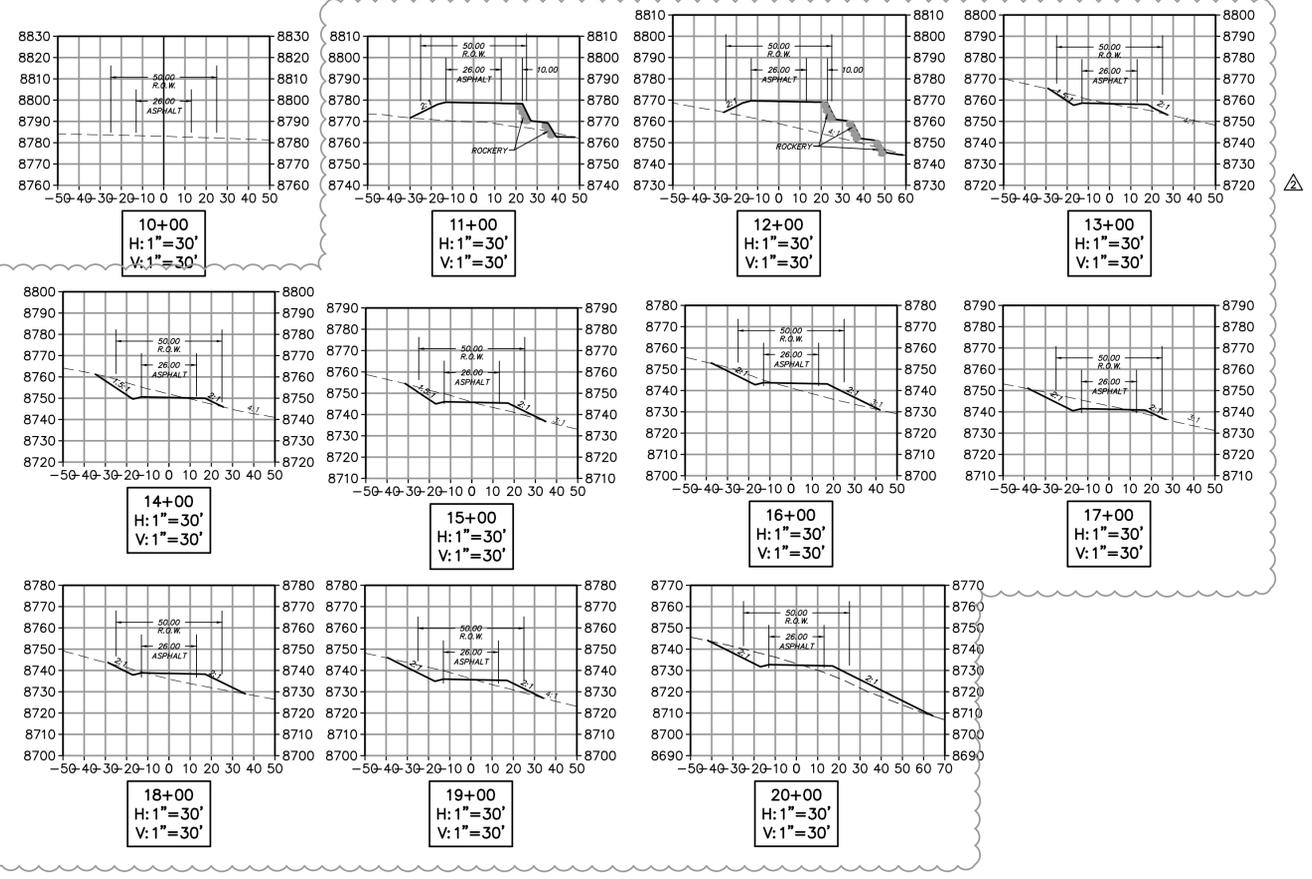
CAUTION  
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

DATE: 12/13/13 TIME: 9:54:05 AM DRAWING NAME: P23000F.DWG  
 SERVER: NONE PAGE SETUP: P23000F-24-38 LAYOUT: Layout1  
 PATH: N:\SLB0793\CAD\PHASE 1\DWG\1-A\_033000F.dwg PROJ. MGR.: RE

BOWDEN  
 XREFS:



**HORIZON RUN**  
 STA: 10+00.00 TO 20+00.00



NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADDENDUM 1
2	RMC	8/27/2013	UTILITY, GRADING, AND ROCKERY REV.

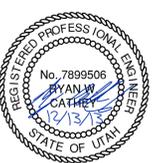
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

**SUMMIT EDEN PHASE 1A**  
**EARTHWORK AND SECTIONS**  
**HORIZON RUN**

DATE SUBMITTED: 12/13/2013

PREPARED FOR: SUMMIT, LLC

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

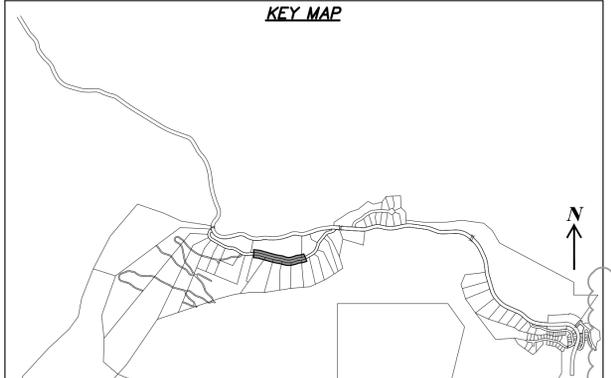
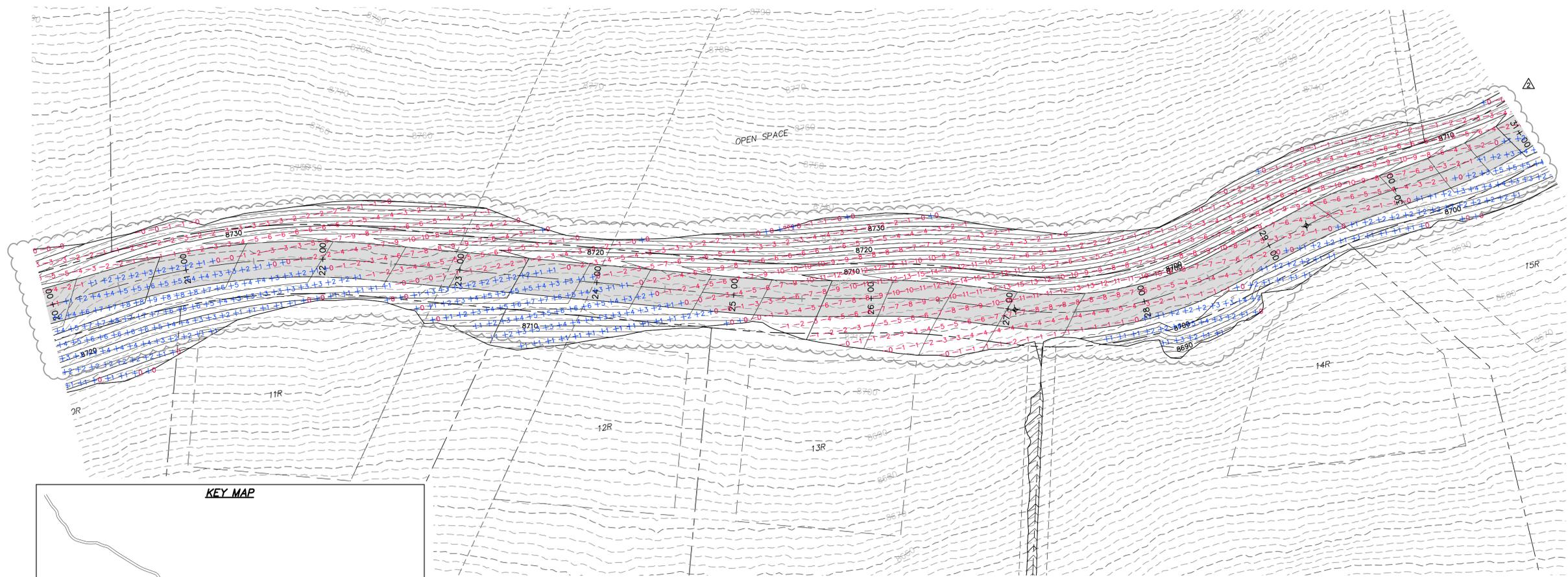


SHEET NUMBER  
**3.00**

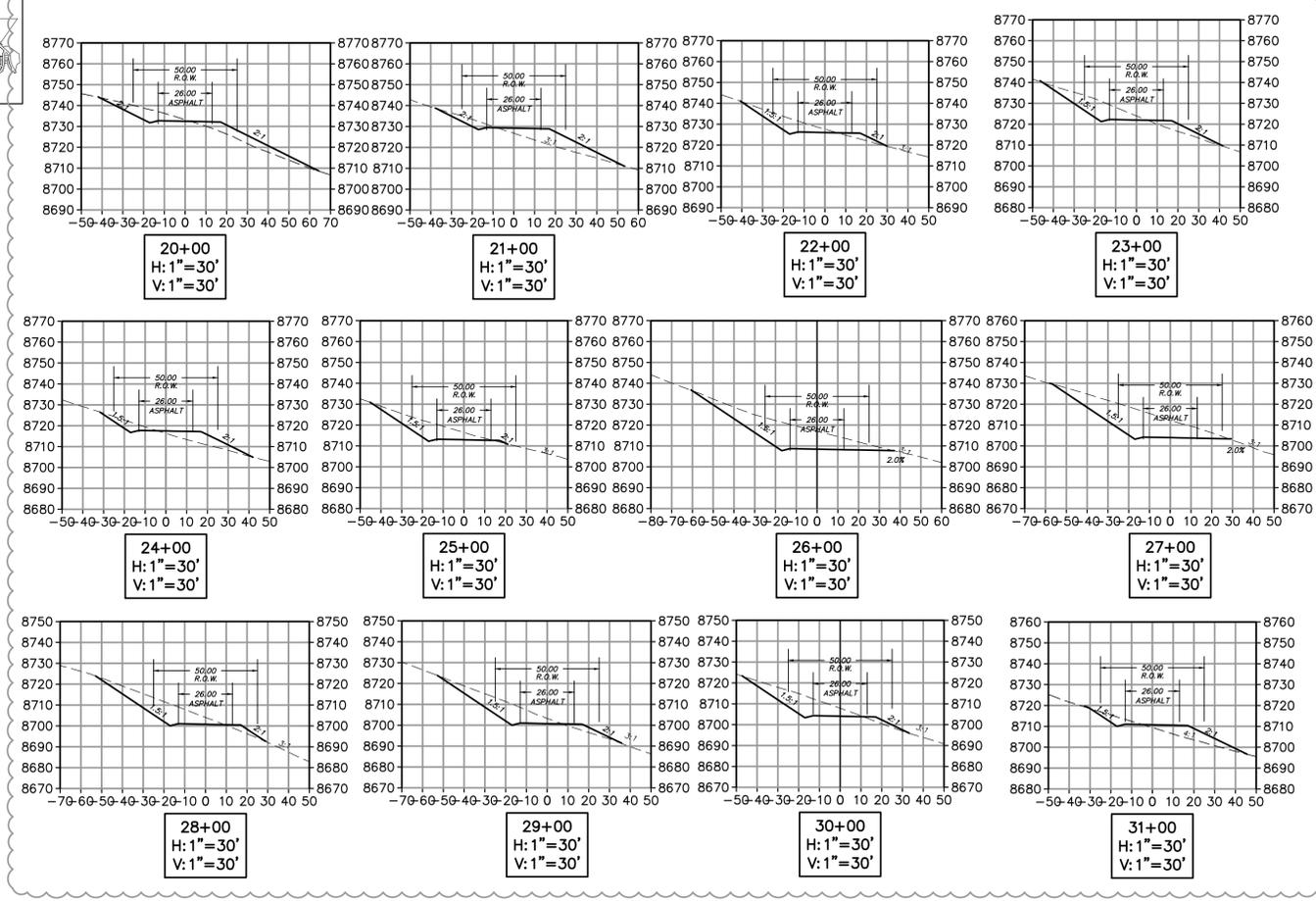
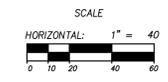
SCALE  
 VERTICAL: 1" = 40'  
 HORIZONTAL: 1" = 40'

JOB NUMBER  
**SLB079306**





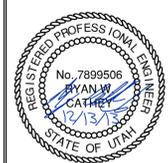
**HORIZON RUN**  
 STA: 20+00.00 TO 31+00.00



NO.	BY	DATE	REVISIONS
1	PMC	8/27/2013	UTILITY, GRADING, AND SOCKET REV
2	PMC	8/27/2013	

**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



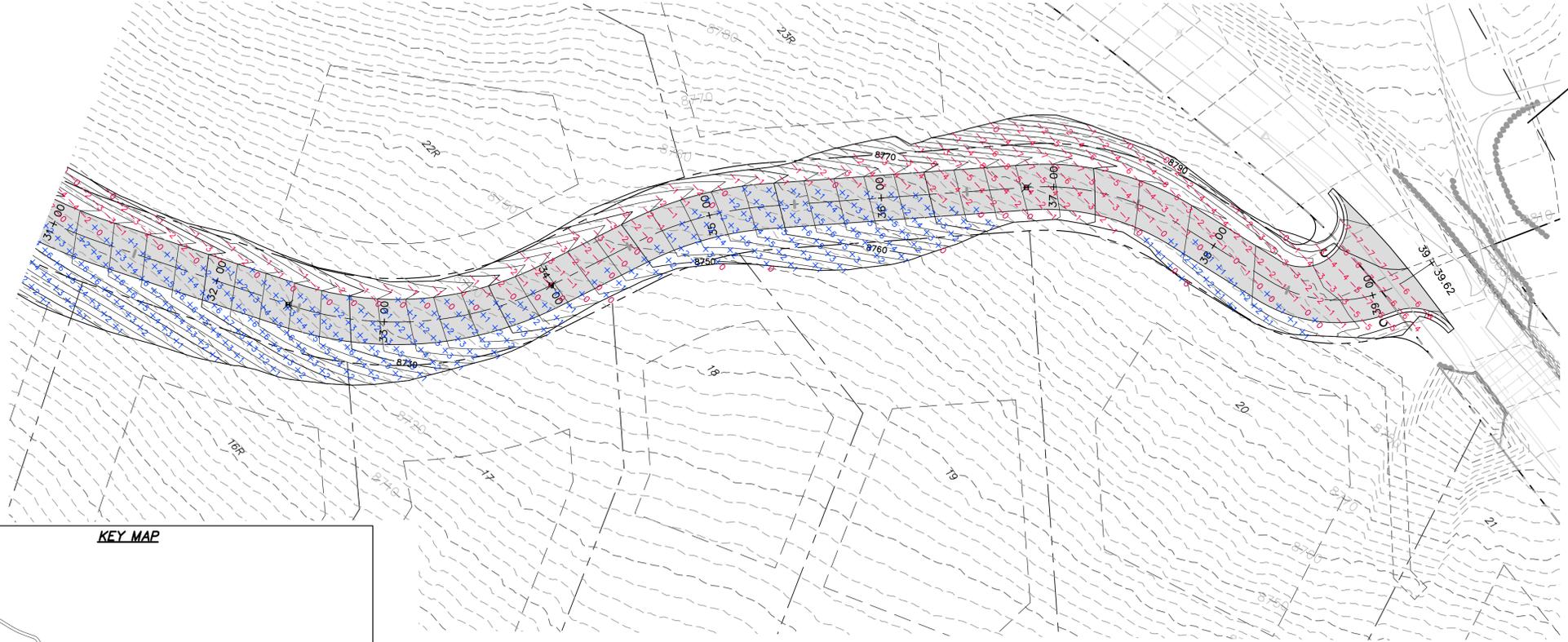
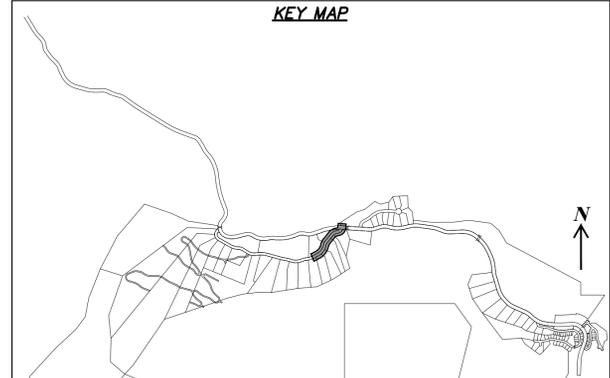
DATE SUBMITTED: 12/13/2013

PREPARED FOR: SUMMIT, LLC

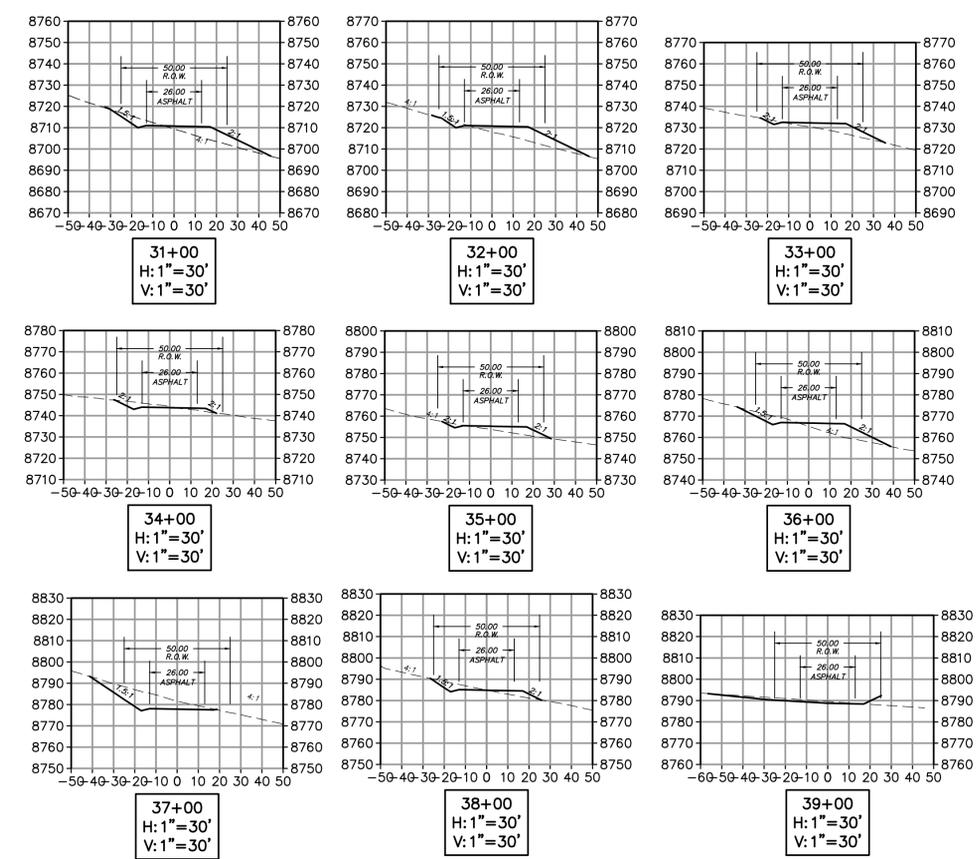
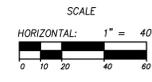
CAUTION  
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans, and any such changes and uses must be approved by the preparer of these plans.



DATE: 12/13/13 TIME: 9:58:15 AM DRAWING NAME: P2302CF.DWG  
 SERVER: NONE PAGE SETUP: P2302CF-24x36 LAYOUT: Layout1  
 PATH: N:\SUB9793\CADD\PHASE 1\JOB\PT-A\_02302CF\_1B\_PROJ.MOB: RE



**HORIZON RUN**  
 STA: 31+00.00 TO 39+39.62



**SUMMIT EDEN PHASE 1A**  
**EARTHWORK AND SECTIONS**  
**HORIZON RUN**

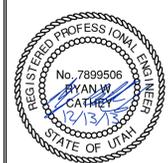
NO.	BY	DATE	REVISIONS
1	RWC	8/27/2013	ADD/NOV 1
2	RWC	8/27/2013	UTILITY, GRADING, AND ROCKERY REV

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 SUBMITTED: 12/13/2013

PREPARED FOR: SUMMIT, LLC

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



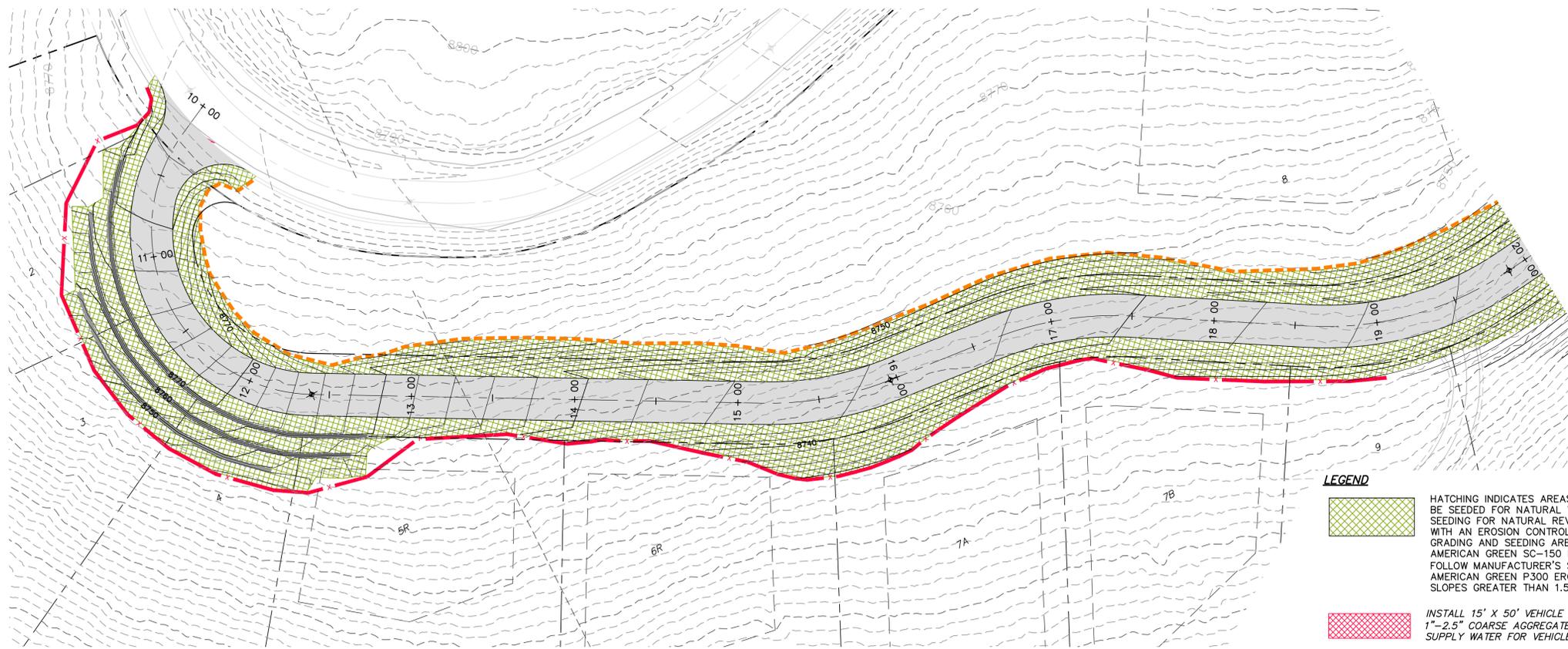
SHEET NUMBER  
**3.02**

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

JOB NUMBER  
**SLB079306**



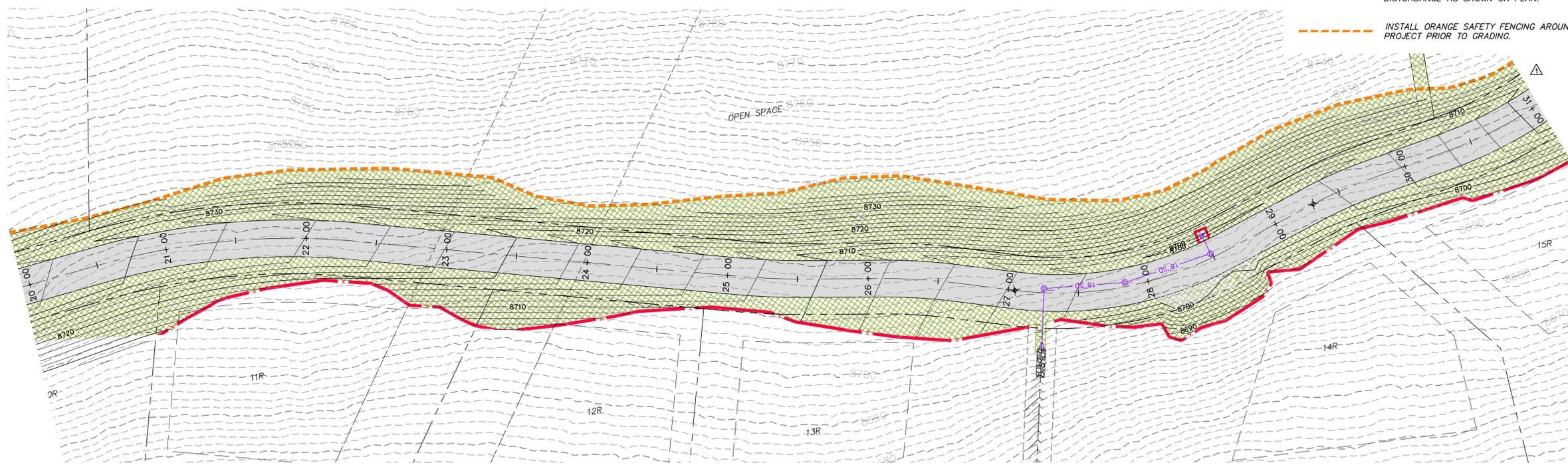
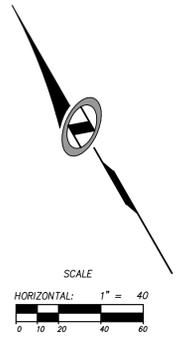
BOWDEN  
 XREFS:



**HORIZON RUN**  
 STA: 10+00.00 TO 20+00.00

**LEGEND**

-  HATCHING INDICATES AREAS TO RECEIVE 4" TOPSOIL AND TO BE SEEDED 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	RWC	8/27/2013	ADDendum 1
2	RWC	9/24/2013	UTILITY, GRADING, AND SOBBY REV

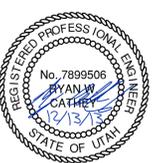
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

DATE SUBMITTED: 12/13/2013

PREPARED FOR: SUMMIT, LLC

**SUMMIT EDEN PHASE 1A**  
**EROSION CONTROL PLAN**  
**HORIZON RUN**

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



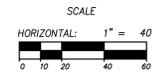
SHEET NUMBER  
**4.00**

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

JOB NUMBER  
**SLB079306**



**HORIZON RUN**  
 STA: 31+00.00 TO 39+39.62

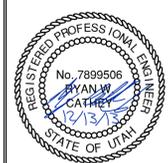


NO.	BY	DATE	REVISIONS
1	RWC	8/27/2013	ADD/NOVA 1
2	RWC	8/27/2013	UTILITY, GRADING, AND ROCKERY REV

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**  
**EROSION CONTROL PLAN**  
**HORIZON RUN**

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

PREPARED FOR: SUMMIT, LLC DATE SUBMITTED: 12/13/2013

**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 A81810 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

**3' x 3' Basin**  
 FILE NAME: 210DC3X3CB000  
 ISSUE DATE: 1/08  
 www.oldcastleprecast.com

**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**

**JOINT DETAIL**

SEE KNOCKOUT TABLE

KNOCKOUT	
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

**3' x 3' Basin**  
 FILE NAME: 210DC3X3CB000  
 ISSUE DATE: 1/08  
 www.oldcastleprecast.com

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

**PLAN VIEW**

**SECTION A-A**

**END VIEW**

Diam.	Slope X : Y	A B C E F G					
		4"	24"	48"	72"	24"	2"
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 3/4"
24"	2.5 : 1	9"	30"	48"	75"	48"	3"
30"	2.5 : 1	12"	54"	19 1/2"	73 1/2"	60"	3 1/2"
36"	2.5 : 1	15"	63"	34 1/2"	97 1/2"	72"	4"
42"	2.5 : 1	21"	63"	35"	98"	78"	4 1/2"
48"	2.5 : 1	24"	72"	26"	98"	84"	5"

**Oldcastle Precast**  
 801 West 12th Street, Ogden, Utah 84404  
 Phone: 801-399-1171 Fax: 801-392-7849

**Flared End**  
 FILE NAME: 210DPERNDFLARE  
 ISSUE DATE: 5/2008  
 www.oldcastleprecast.com

**Flared End Section for Round Pipe**  
 Copyright © 2008

**I-3742 Drop Inlet**

**BICYCLE SAFETY LUGS**

**CAST IRON to conform to ASTM A-48, CLASS 35B H-20 Wheel Loading**

**I-3742**  
 Est. weight 582 lbs.

**D&L SUPPLY**  
 D&L Foundry  
 P.O. Box 1919  
 Moses Lake, WA 98837  
 Phone: (509) 765-7952  
 Fax: (509) 765-8124

Scale: 1" = 17 1/2"

Sheet Number: 1  
 Total Sheets: 1

Prepared by: D&L Supply  
 Date of Drawing: JUL 1994

**SUMMIT EDEN PHASE 1A**  
**STORM DRAIN DETAILS**

REVISIONS:  
 NO. BY DATE DESCRIPTION  
 1 RMC 8/27/2013 ADDITION 1  
 2 RMC 9/25/2013 UTILITY, GRADING, AND ROCKETRY REV

DATE SUBMITTED: 12/13/2013

PREPARED FOR: SUMMIT, LLC

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

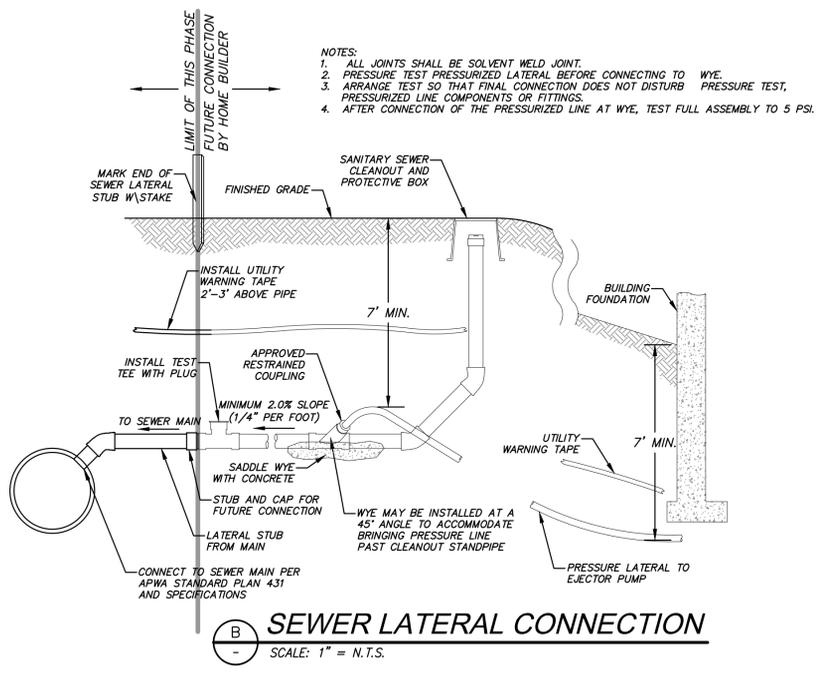
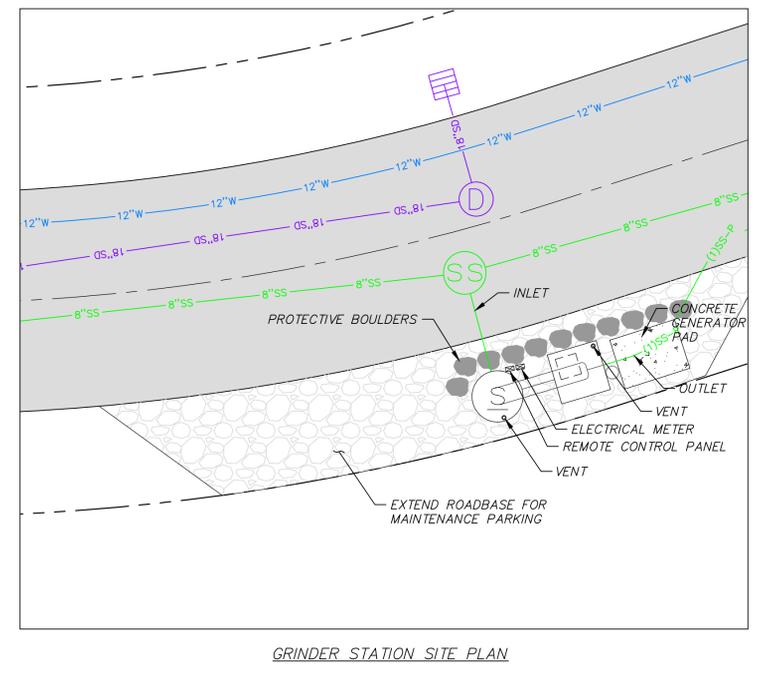
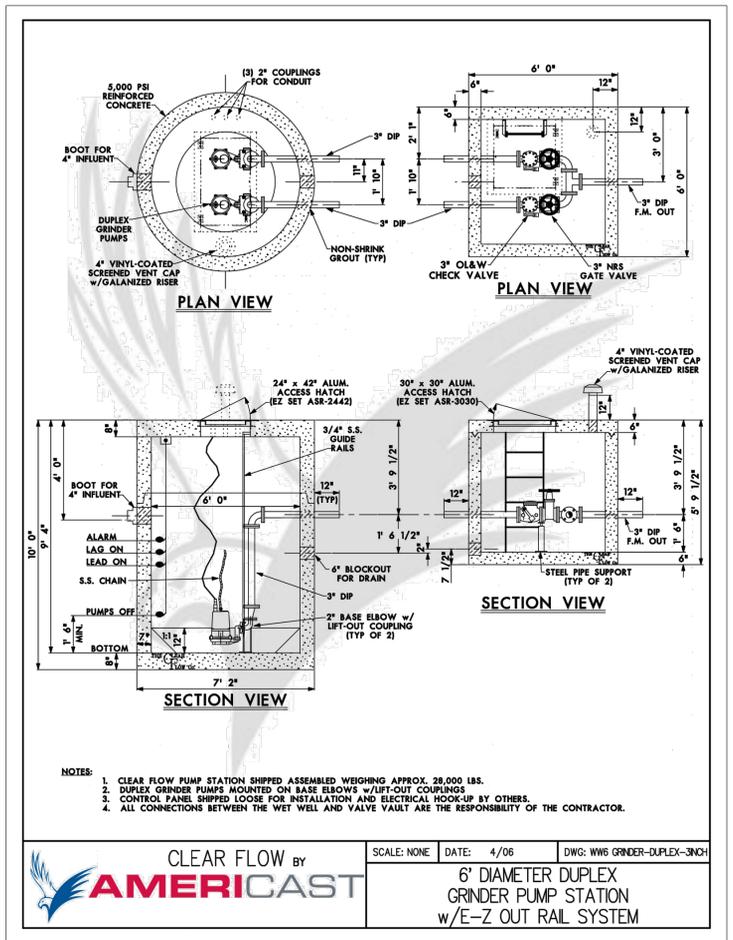
REGISTERED PROFESSIONAL ENGINEER  
 No. 7899506  
 RYAN W. CATHEY  
 12/13/13  
 STATE OF UTAH

SHEET NUMBER  
**5.00**

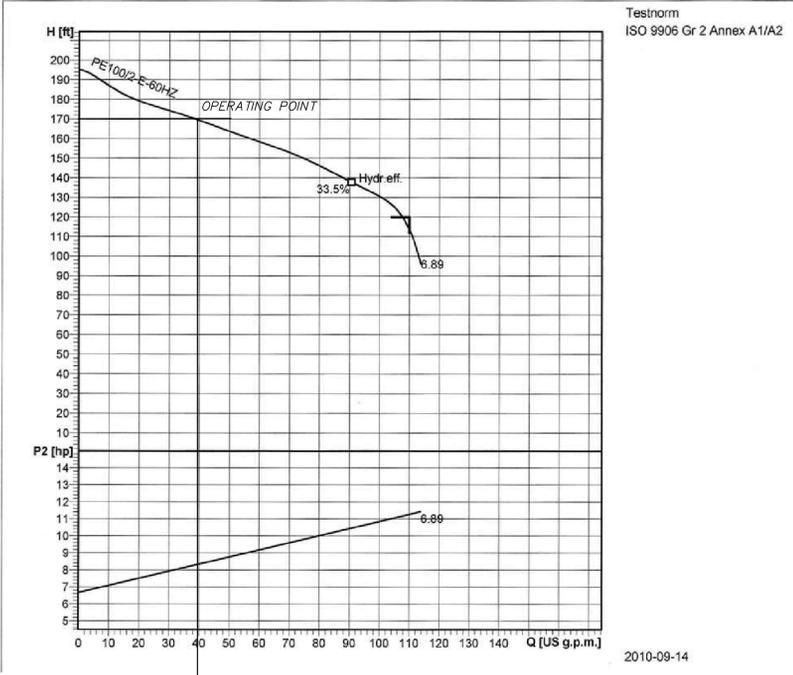
SCALE  
 VERTICAL: 1" = N/A  
 HORIZONTAL: 1" = N/A

JOB NUMBER  
**SLB079306**

CALL BEFORE YOU DIG!  
 BLUE STAKES 1 800 632 6711



PIR PE PE100/2-E-60HZ



Grinder Station Calculations	
GR-2	
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

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

**LEGEND**

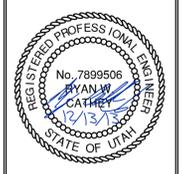
PUMP NAME	INVERT IN	INVERT IN SIZE	SUMP ELEV.	BASIN DIA.	PUMP HEAD	PUMP HP	DISCHARGE DIA.	DISCHARGE VELOCITY	MIN STORAGE VOLUME (gal)	STATION DETAIL	PUMP	PEAK FLOW (GPM)	AUTO DIALER	MAIN POWER TRANSFER SWITCH	POWER
GR-2	8689.80	8"	8682.71	72"	170	13.4	3"	2.16	1500	AMERICAST 6' DIA. DUPLEX	ABS PUMP MODEL PIR PE PE100	38	CELLULAR	MANUAL	3 PHASE/480 VOLT

CLEAR FLOW BY **AMERICAST**  
 SCALE: NONE DATE: 4/06 DWG: W16 GRINDER-DUPLEX-3INCH  
**6' DIAMETER DUPLEX GRINDER PUMP STATION w/E-Z OUT RAIL SYSTEM**

NO.	BY	DATE	REVISIONS
1	JHH	8/27/2013	ADDENDUM 1
2	JHH	9/24/2013	UTILITY, GRADING, AND SOCKET REV.

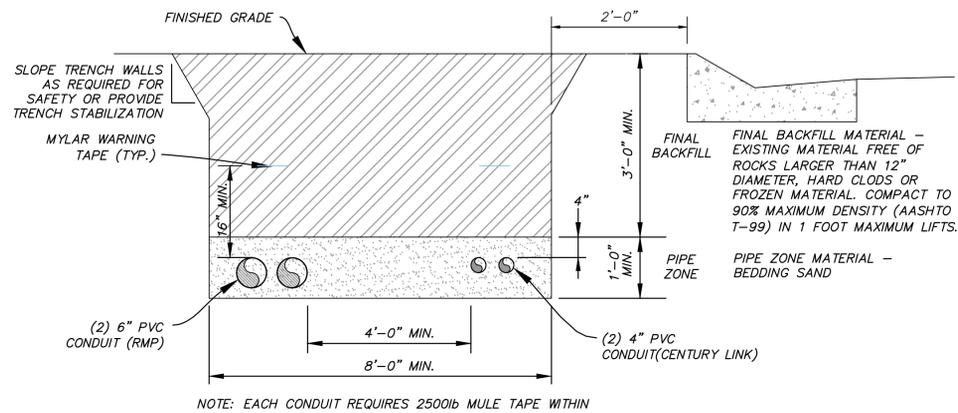
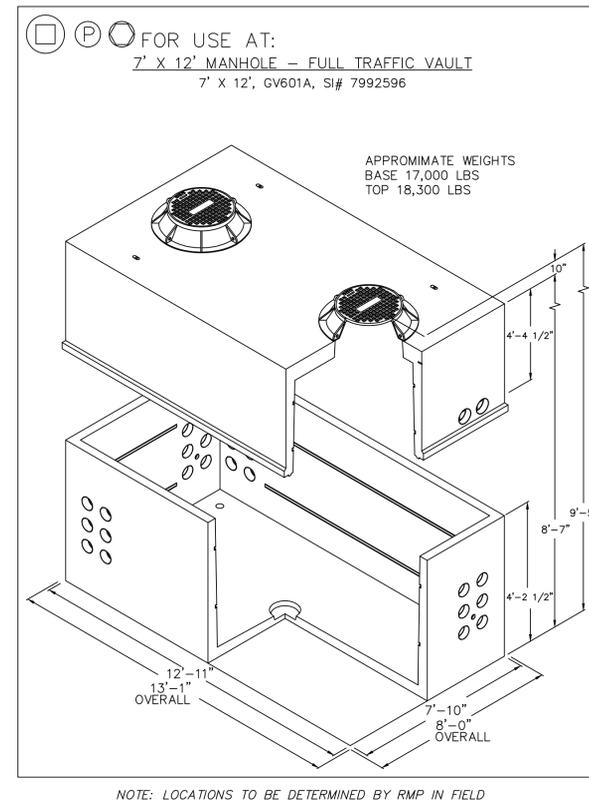
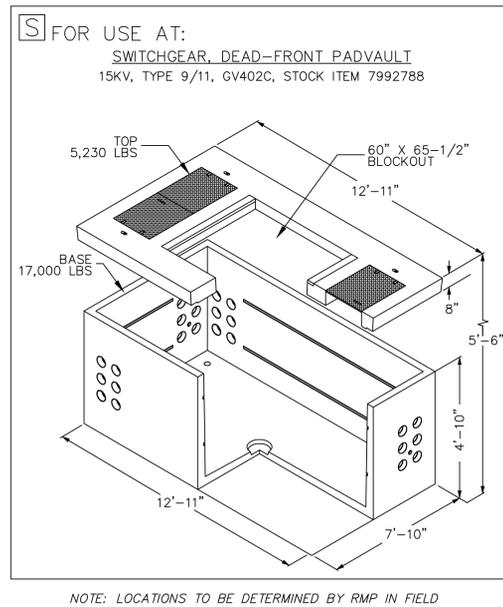
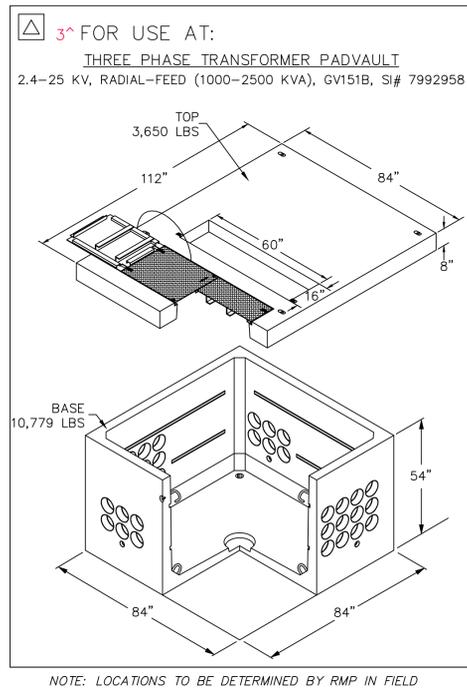
**SUMMIT EDEN PHASE 1A**  
**SEWER DETAILS**  
 PREPARED FOR: SUMMIT, LLC  
 DATE SUBMITTED: 12/13/2013

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



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





**POWER CONDUIT TRENCH**  
 NTS

NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADD COLUMN 1
2	RMC	9/24/2013	UTILITY, GRADING, AND SOCKET REV

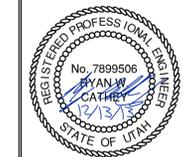
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

**SUMMIT EDEN PHASE 1A**  
**ELECTRICAL DETAILS**

DATE SUBMITTED: 12/13/2013

PREPARED FOR: SUMMIT, LLC

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

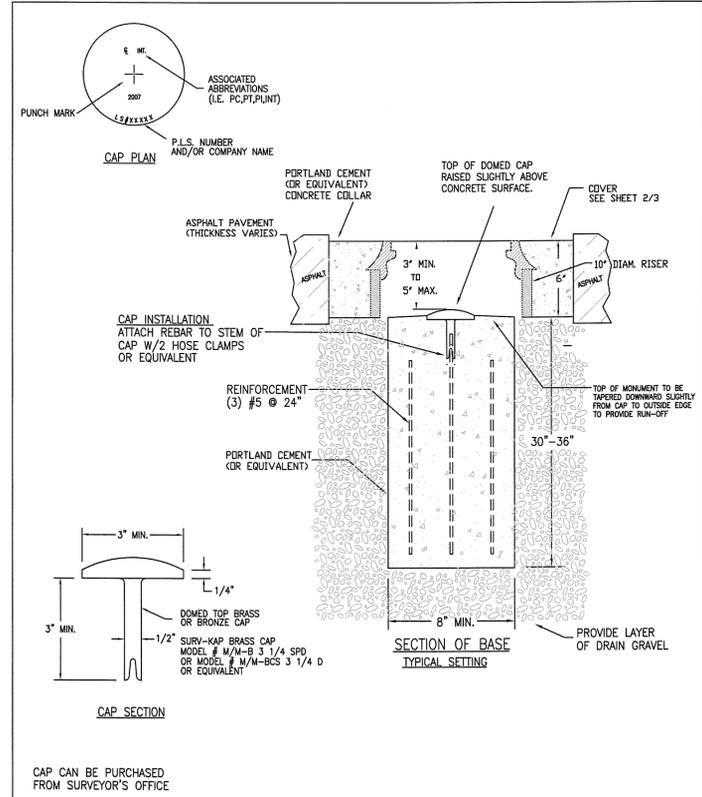


SHEET NUMBER  
**5.20**

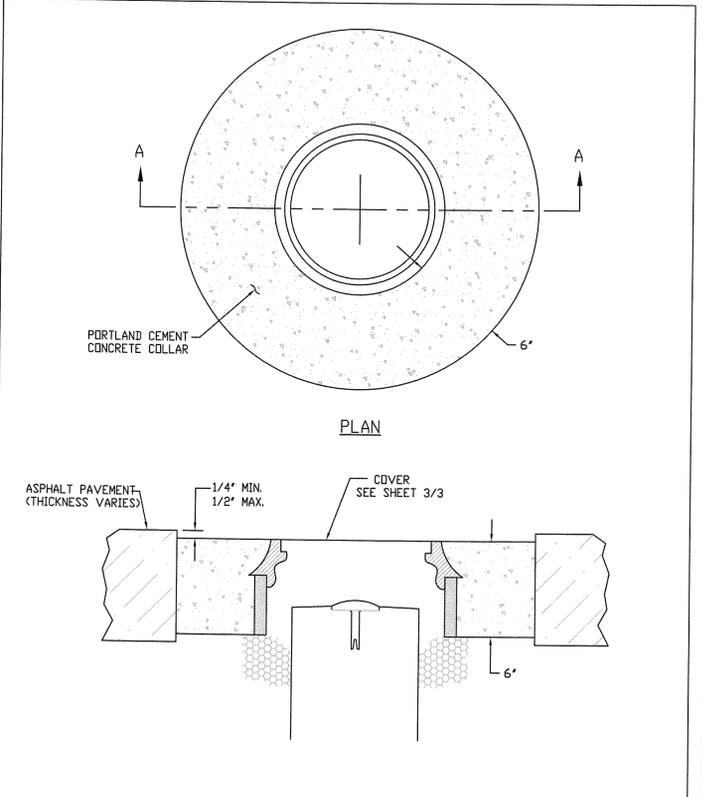
SCALE  
 VERTICAL: 1" = N/A  
 HORIZONTAL: 1" = N/A

JOB NUMBER  
**SLB079306**

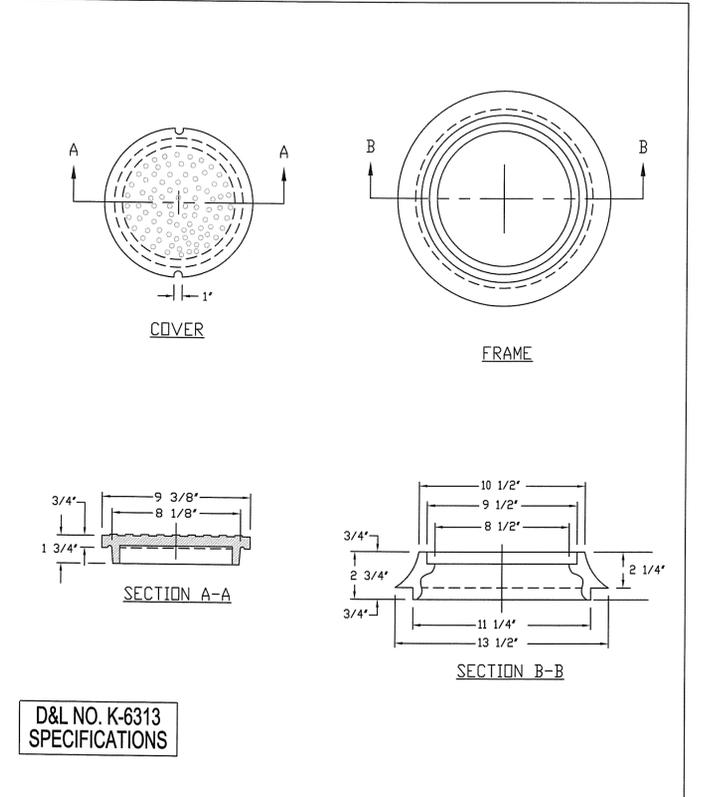




WEBER COUNTY SURVEY OFFICE	RING & LID SURVEY MONUMENT	STANDARD PLANS
		Monument Standard
3/28/10	399-8020	SHEET 1 OF 3



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

NO.	BY	DATE	REVISIONS
1	RHC	8/27/2013	ADDENDUM 1
2	RHC	8/27/2013	UTILITY, GRADING, AND SOCIETY REV.

**SUMMIT EDEN PHASE 1A**

**MISCELLANEOUS DETAILS**

DATE SUBMITTED: 12/13/2013

PREPARED FOR: SUMMIT, LLC

**NV5**  
BEYOND ENGINEERING

627 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

12/13/13

STATE OF UTAH

SHEET NUMBER

**5.30**

SCALE

VERTICAL: 1" = N/A

HORIZONTAL: 1" = N/A

JOB NUMBER

**SLB079306**

