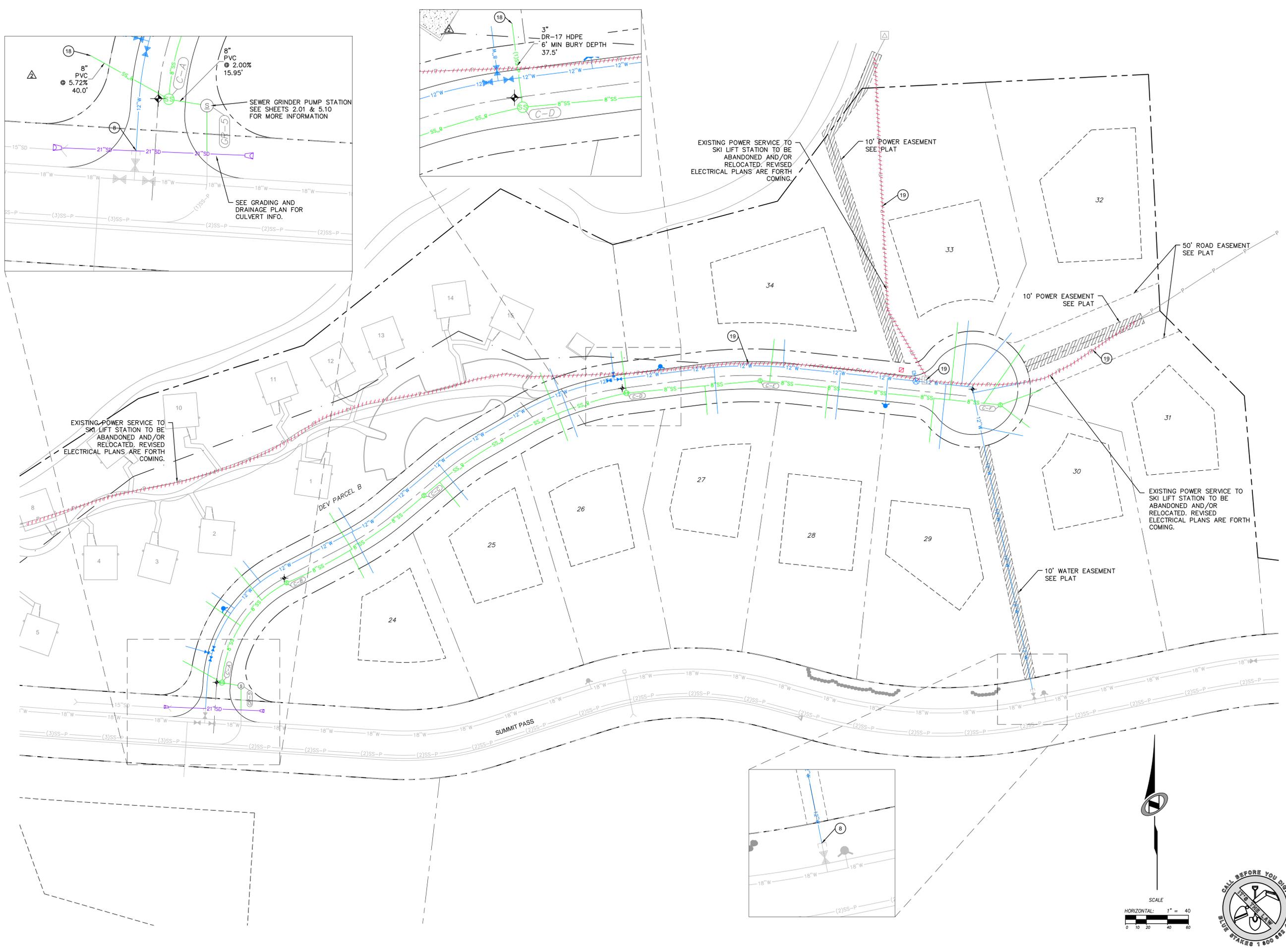


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PREFACE:
 XREFS:



NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADDendum 1
2	RMC	8/27/2013	UTILITY, GRADING, AND ROCKET 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: 11/4/2013

PREPARED FOR: SUMMIT, LLC

PHASE 1B CONSTRUCTION OVERALL UTILITY PLAN

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

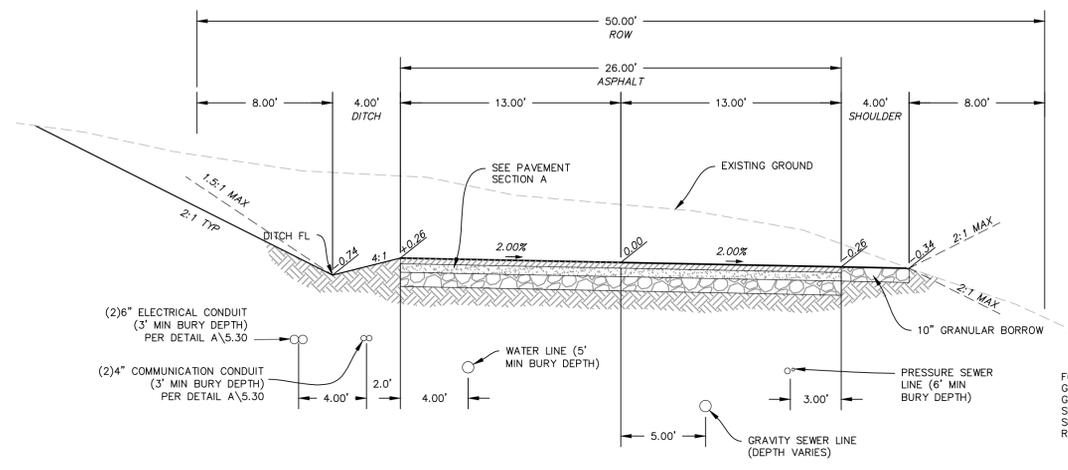


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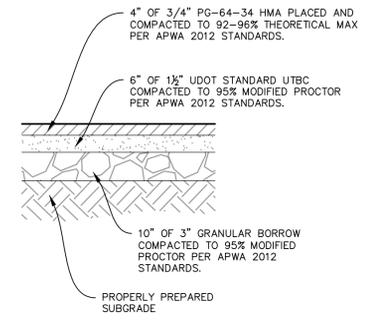
JOB NUMBER
SLB079306



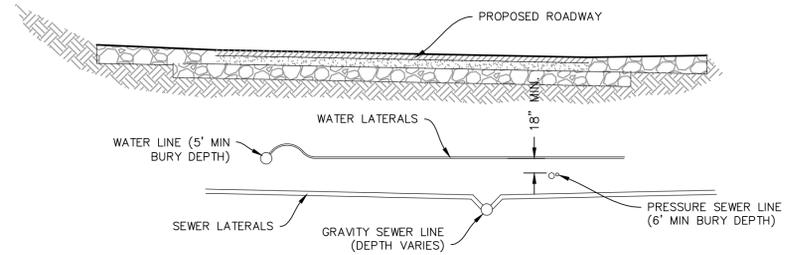


TYPICAL ROADWAY SECTION A-A
 (50' RIGHT OF WAY SECTION)
 STA: 10+00.00 TO 18+14.86

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



PAVEMENT SECTION A



WATER AND SEWER SEPARATION DETAIL

NO.	BY	DATE	REVISIONS
1	RHC	8/27/2013	ADD/NOV 1 UTILITY, GRADING, AND ROCKET REV
2	RHC	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 contractor shall be responsible for obtaining all necessary permits and must be approved by the preparer of these plans.

PHASE 1B CONSTRUCTION
ROADWAY TYPICAL SECTIONS

DATE SUBMITTED: 11/4/2013

PREPARED FOR: SUMMIT, LLC

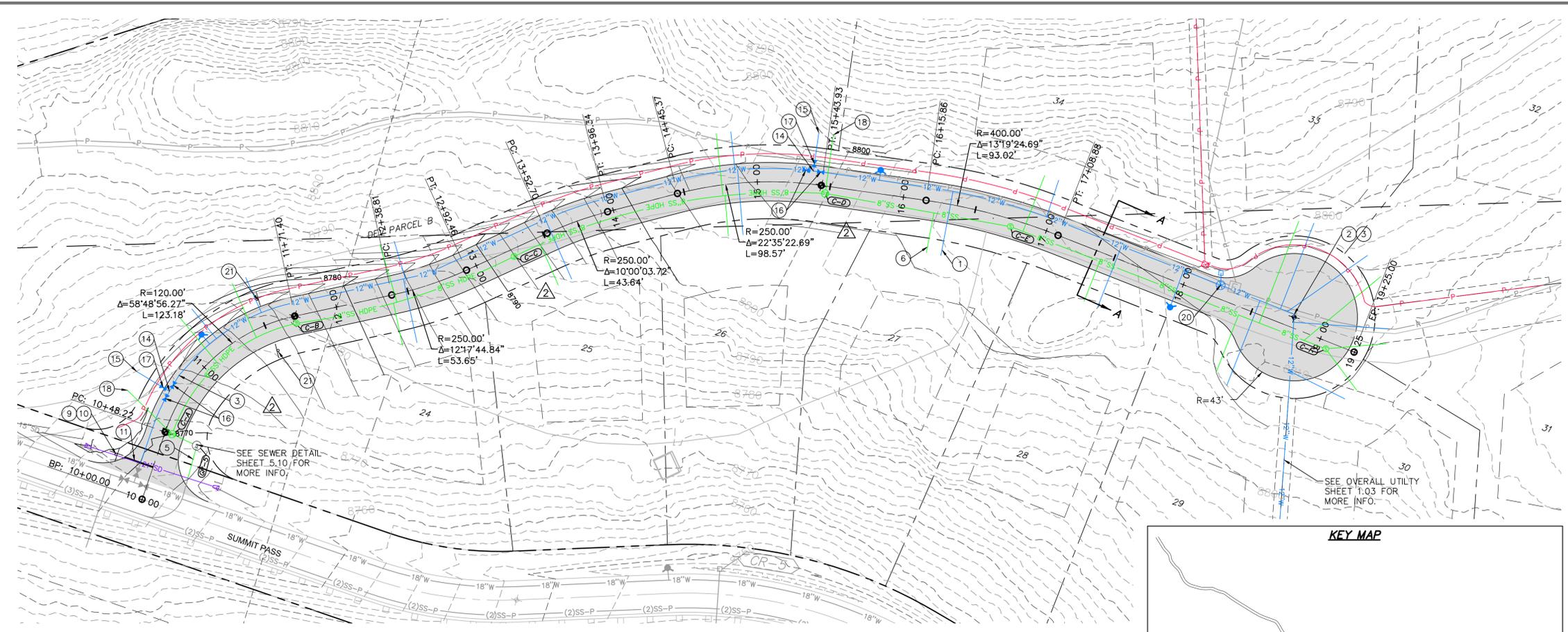
NV5
 BEYOND ENGINEERING
 627 SOUTH STATE STREET, SUITE 200
 801743.000 TEL 801743.000 FAX
 MURRAY, UT 84107
 WWW.NV5.COM



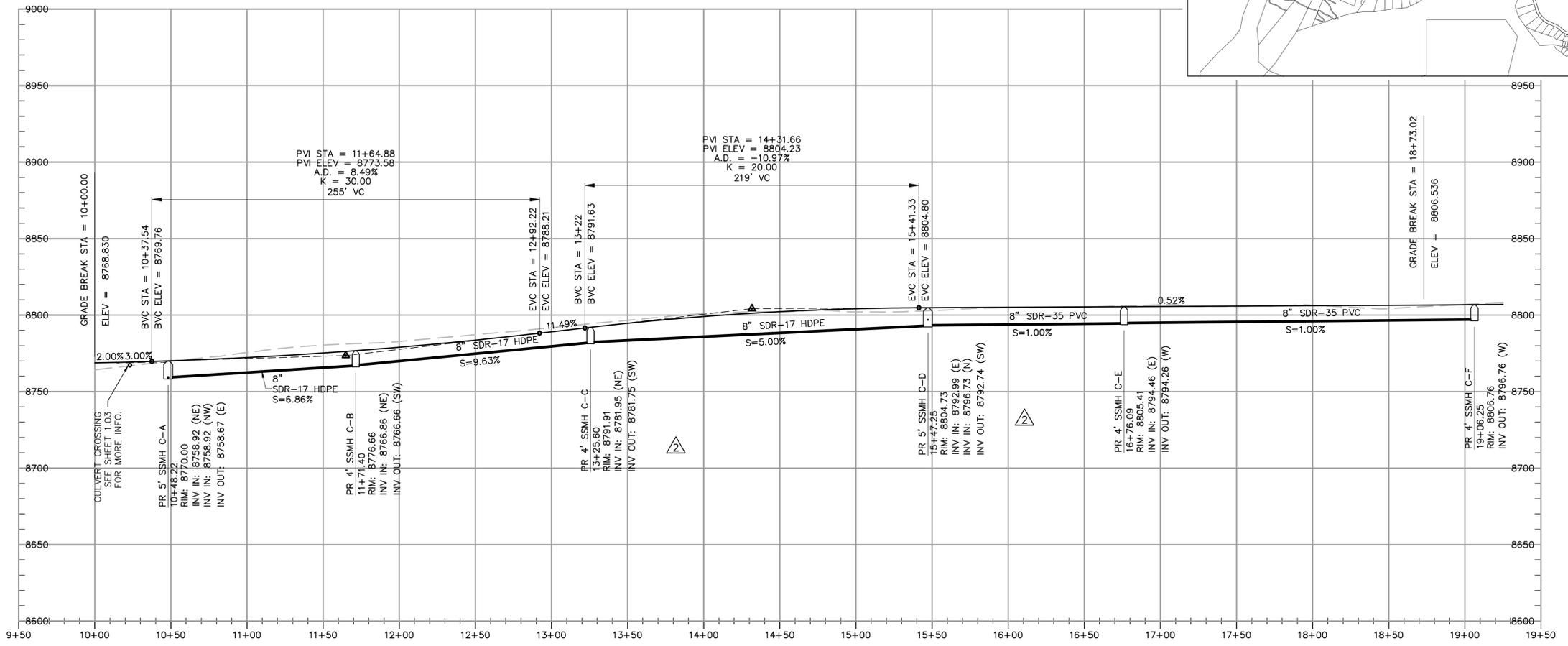
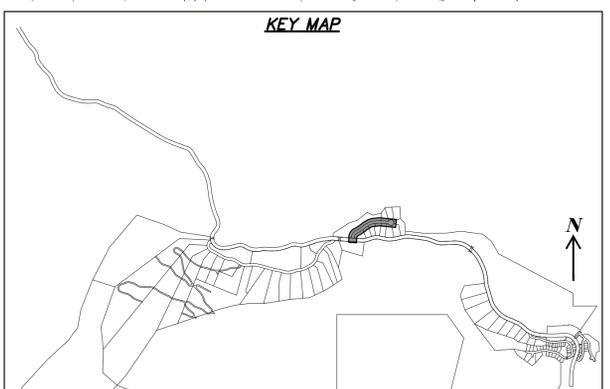
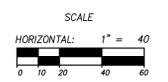
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SCALE
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JOB NUMBER
SLB079306



HEARTWOOD DRIVE
 STA: 10+00.00 TO 19+25.00



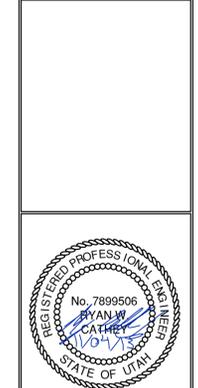
NO.	BY	DATE	REVISIONS
1	PMC	8/27/2013	ADDENDUM 1
2	PMC	8/27/2013	UTILITY, GRADING, AND SOCIETY REV

PHASE 1B CONSTRUCTION
PLAN AND PROFILE
HEARTWOOD DRIVE

DATE SUBMITTED: 11/4/2013

PREPARED FOR: SUMMIT, LLC

NV5
 BEYOND ENGINEERING
 6217 SOUTH STATE STREET, SUITE 200
 801743.0300 TEL 801743.0300 FAX
 MURRAY, UT 84107
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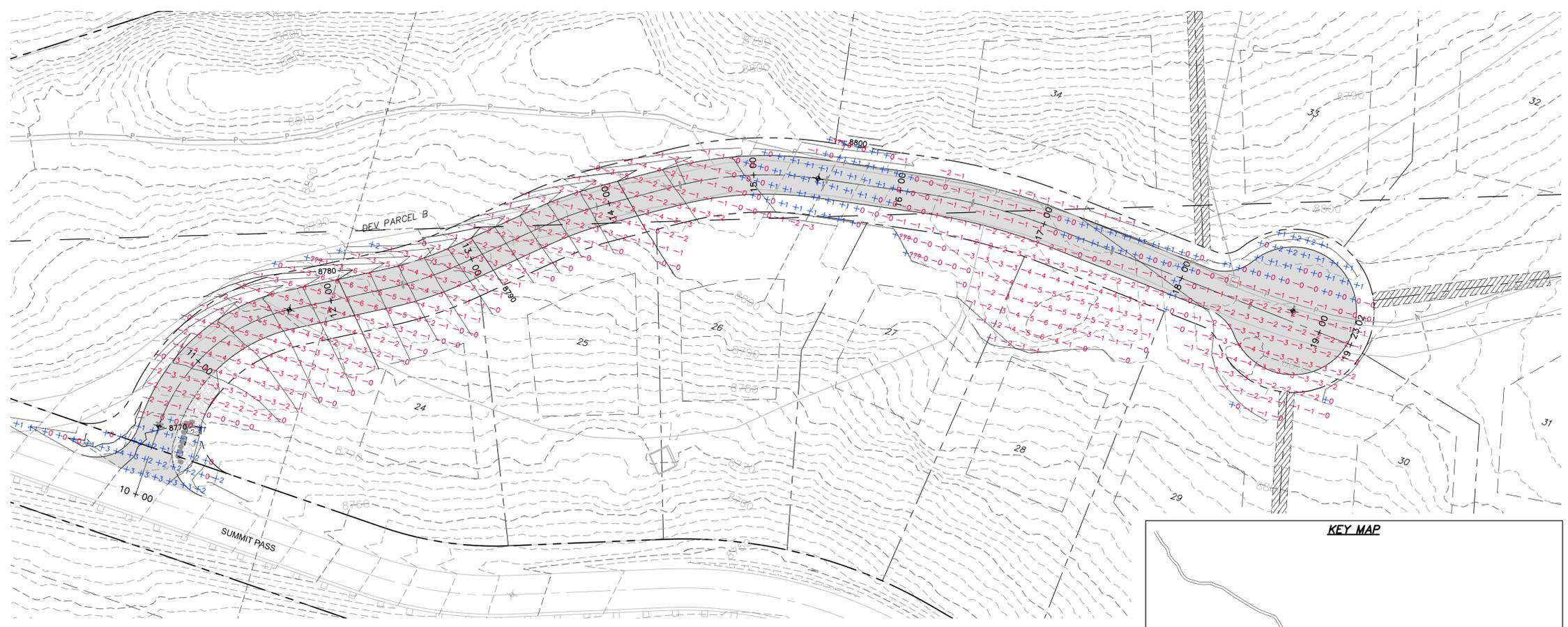
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 HORIZONTAL: 1" = 40'

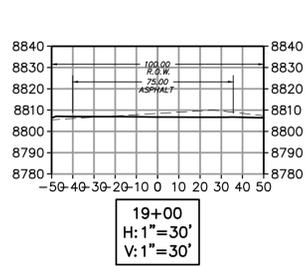
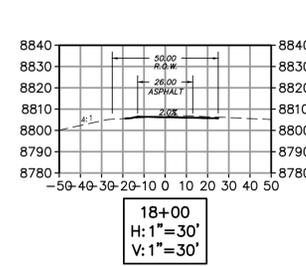
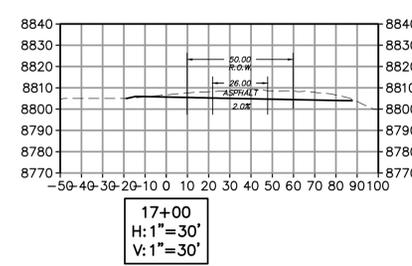
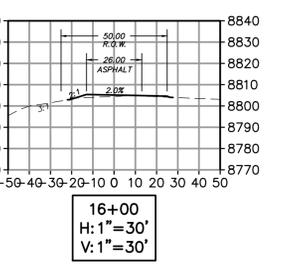
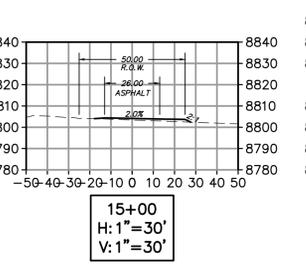
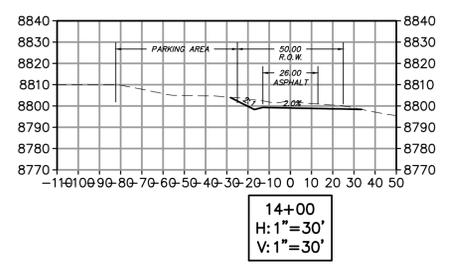
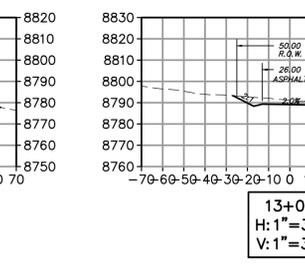
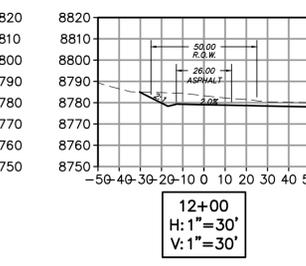
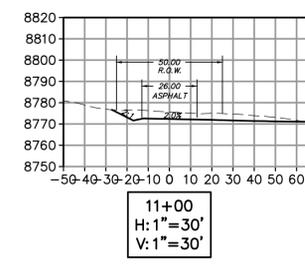
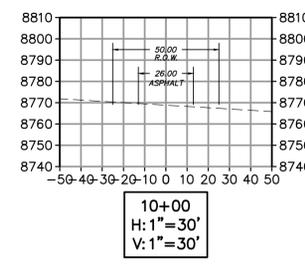
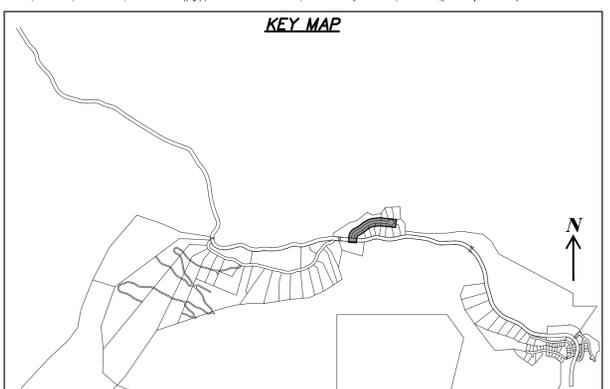
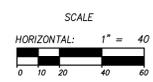
JOB NUMBER
SLB079306

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.

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HEARTWOOD DRIVE
 STA: 10+00.00 TO 19+25.00



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

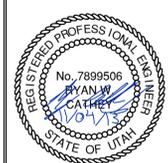
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

CAUTION

PHASE 1B CONSTRUCTION
EARTHWORK AND SECTIONS
HEARTWOOD DRIVE

DATE SUBMITTED: 11/4/2013
 PREPARED FOR: SUMMIT, LLC

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



SHEET NUMBER
3.00

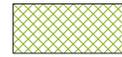
SCALE
 VERTICAL: 1"=40'
 HORIZONTAL: 1"=40'

JOB NUMBER
SLB079306



PREFACE
 XREFS:

LEGEND



HATCHING INDICATES AREAS TO RECEIVE 4" TOPSOIL AND TO BE SEEDED FOR NATURAL VEGETATION. 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.



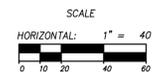
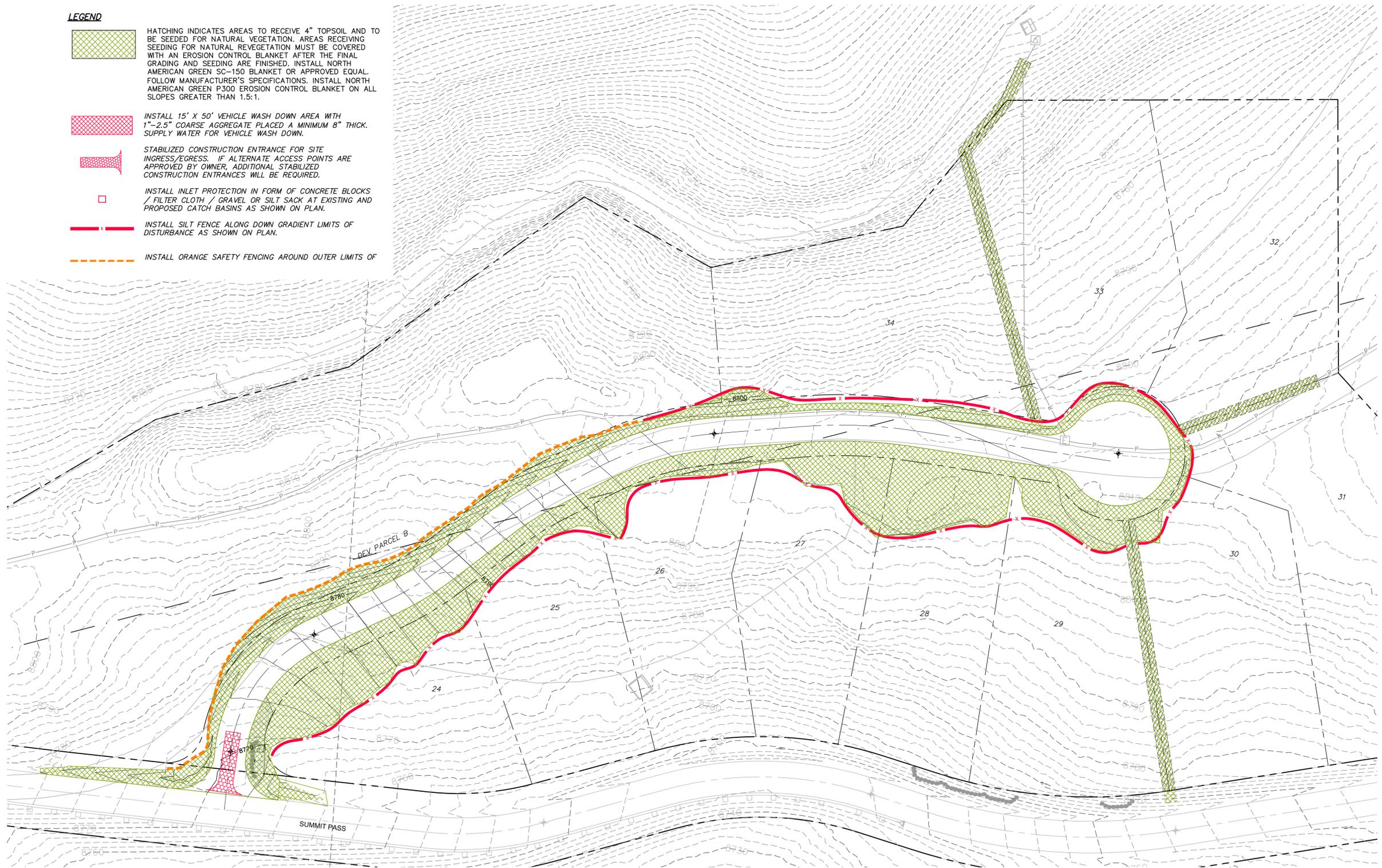
INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN.



INSTALL SILT FENCE ALONG DOWN GRADIENT LIMITS OF DISTURBANCE AS SHOWN ON PLAN.

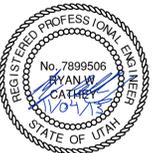


INSTALL ORANGE SAFETY FENCING AROUND OUTER LIMITS OF



PHASE 1B CONSTRUCTION
EROSION CONTROL PLAN
HEARTWOOD DRIVE

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



SHEET NUMBER
4.00

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

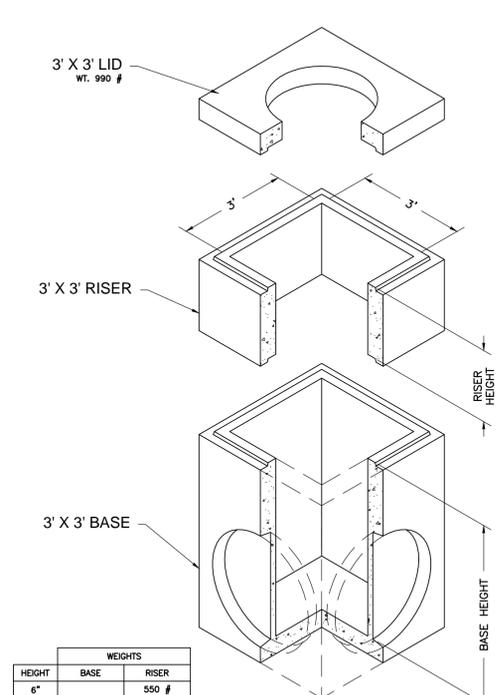
JOB NUMBER
SLB079306

DATE SUBMITTED: 11/4/2013

PREPARED FOR: SUMMIT, LLC

REVISIONS:
 NO. BY DATE DESCRIPTION
 1 RMC 8/27/2013 ADDITION 1
 2 RMC 9/24/2013 UTILITY, GRADING, AND ROCKETRY REV

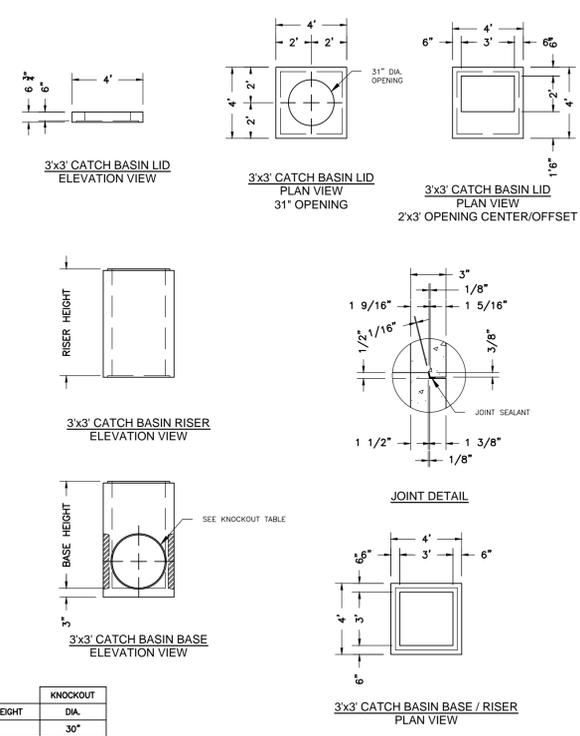
CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.



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 AASHTO HS-20 loading.
 2. Lifting insert type and location may change without notice.

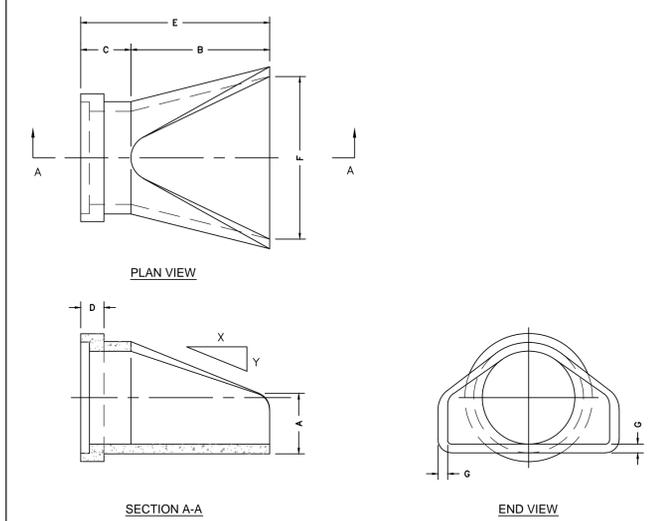
 801 West 12th Street, Ogden, Utah 84404 Phone: 801-399-1171 Fax: 801-392-7849	3' x 3' Basin FILE NAME: 2100C3X3CB000 ISSUE DATE: 1/08 www.oldcastleprecast.com	3' x 3' Catch Basin Bases, Risers and lid Copyright © 2008
--------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	----------------------------------------------------------------------



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

KNOCKOUTS ARE 4" DEEP

 801 West 12th Street, Ogden, Utah 84404 Phone: 801-399-1171 Fax: 801-392-7849	3' x 3' Basin FILE NAME: 2100C3X3CB000 ISSUE DATE: 1/08 www.oldcastleprecast.com	3' x 3' Catch Basin Bases, risers and lid Copyright © 2008
--------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	----------------------------------------------------------------------



Diam.	Slope	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"	23"	46"	73"	36"	2 1/2"
24"	2.5 : 1	9"	30"	43"	70"	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"

 801 West 12th Street, Ogden, Utah 84404 Phone: 801-399-1171 Fax: 801-392-7849	Flared End FILE NAME: 2100PERNDFLARE ISSUE DATE: 5/2008 www.oldcastleprecast.com	Flared End Section for Round Pipe Copyright © 2008
--------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	--------------------------------------------------------------

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

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.

PHASE 1B CONSTRUCTION STORM DRAIN DETAILS

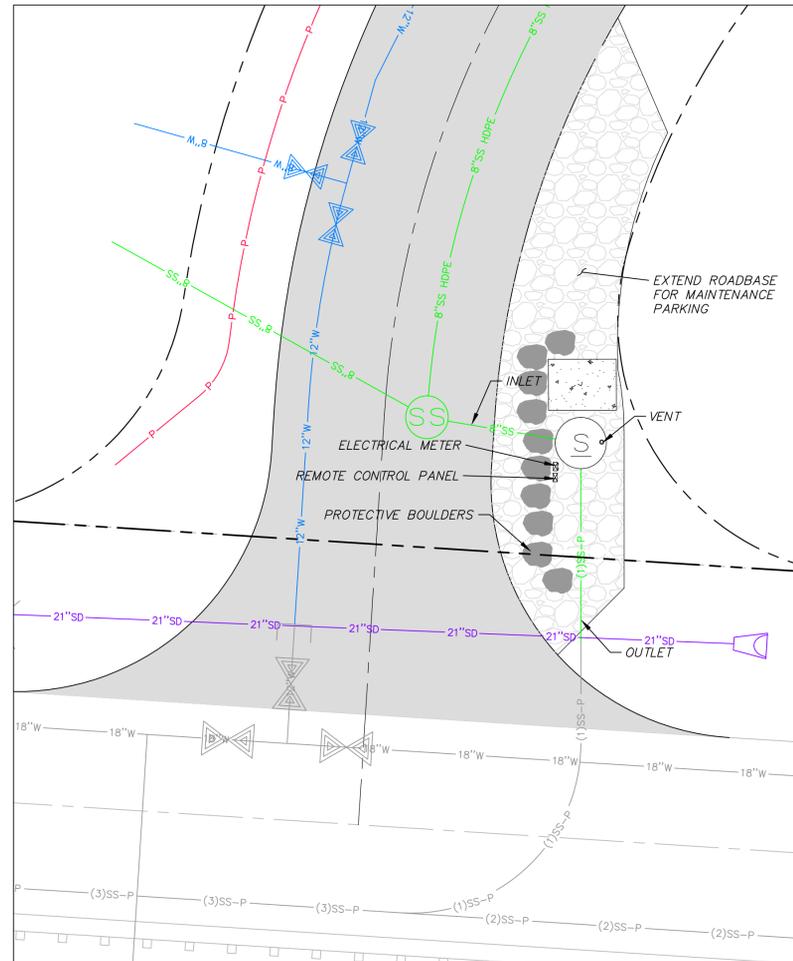
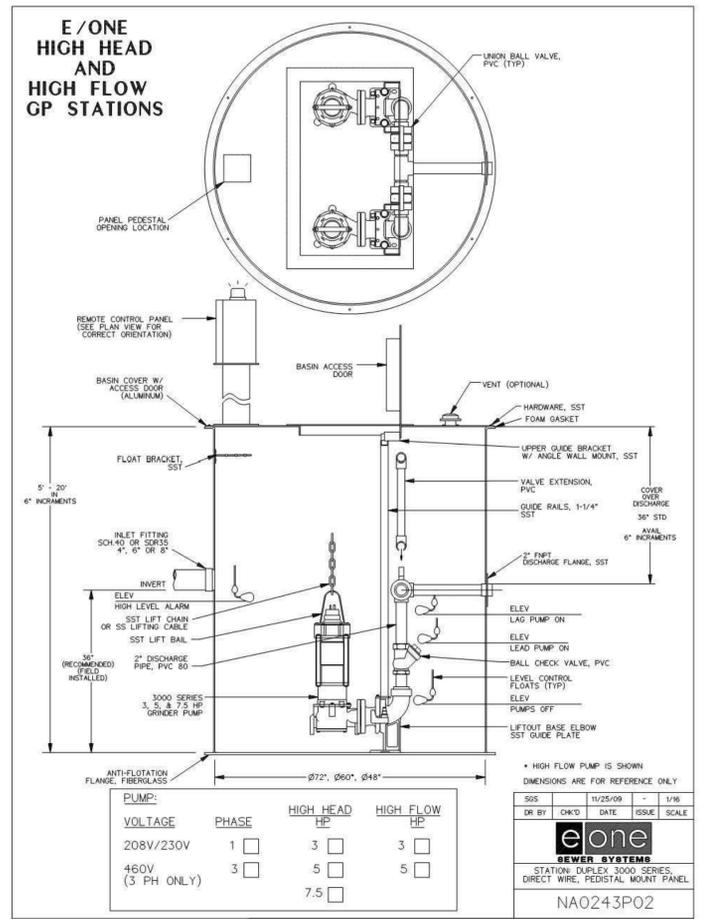
DATE SUBMITTED: 11/4/2013
 PREPARED FOR: SUMMIT, LLC

SHEET NUMBER
5.00

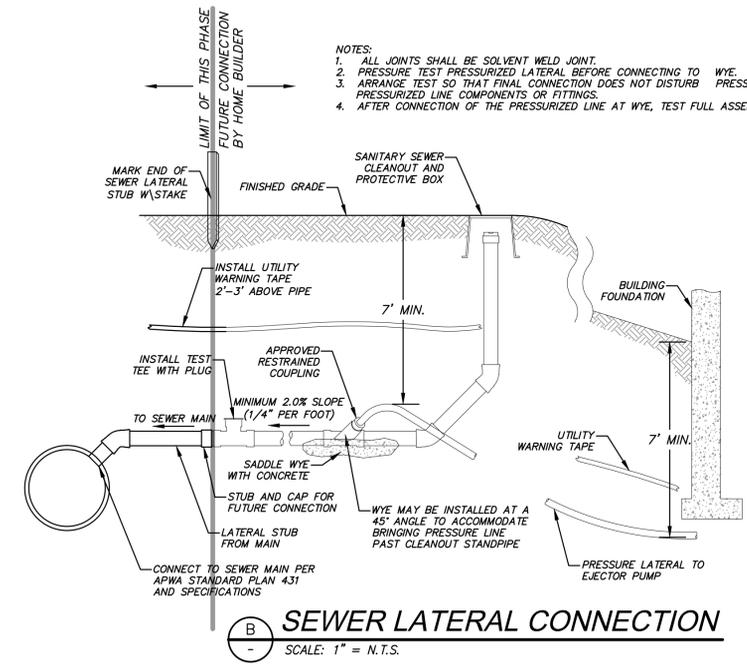
SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = N/A

JOB NUMBER
SLB079306





GRINDER STATION SITE PLAN

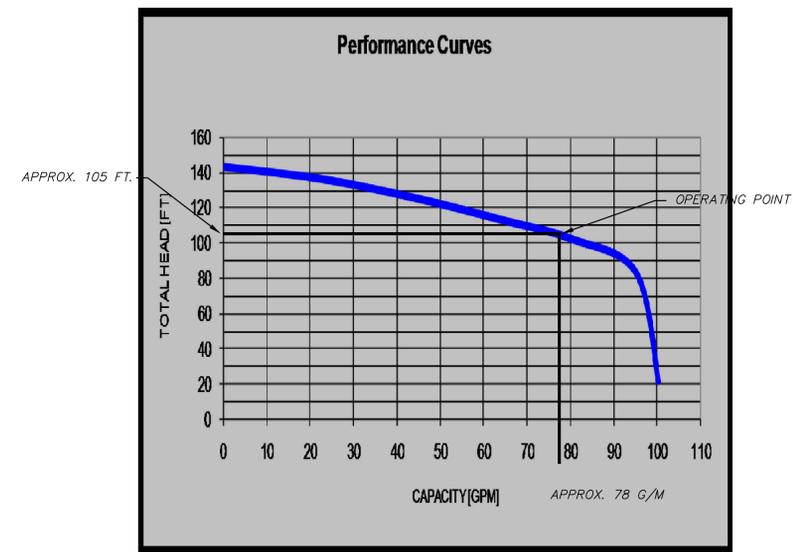


SEWER LATERAL CONNECTION
 SCALE: 1" = N.T.S.

PUMP NAME	INVERT	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-5	8758.30	8"	8753.34	72"	105	5	2.5"	2.18	1050	DUPLEX 3000 SERIES	SUBMERSIBLE GRINDER PUMP E-ONE 3H51	75	CELLULAR	MANUAL	1 PHASE/240 VOLT

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

Grinder Station Calculations	
GR-5	
Head Difference	8754.34-8848.06=93.72 ft.
Pipe Length	1210 ft.
Friction Loss	10.81 ft.
Flow Calc.	(26 units) (3.2 People/household)(100 gallons/day/capita)=5.78 g/m average
Peaking Factor (Ten States Method)	$Q_{peak}/Q_{avg} = 18 + VP/4 + VP = 4.5$ $Q_{peak} = 23.0$ g/m
Pump Curve	See Pump Curve = 40 g/m



NO.	DATE	BY	REVISIONS
1	8/27/2013	JMM	ADD/REVISE
2	9/24/2013	JMM	UTILITY, GRADING, AND ROCKETRY REV

PHASE 1B CONSTRUCTION
 GRINDER PUMP VAULT
 SEWER DETAILS

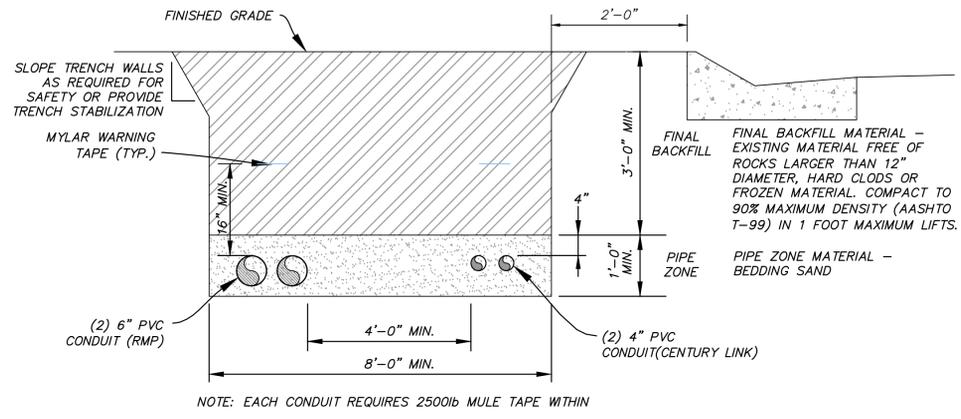
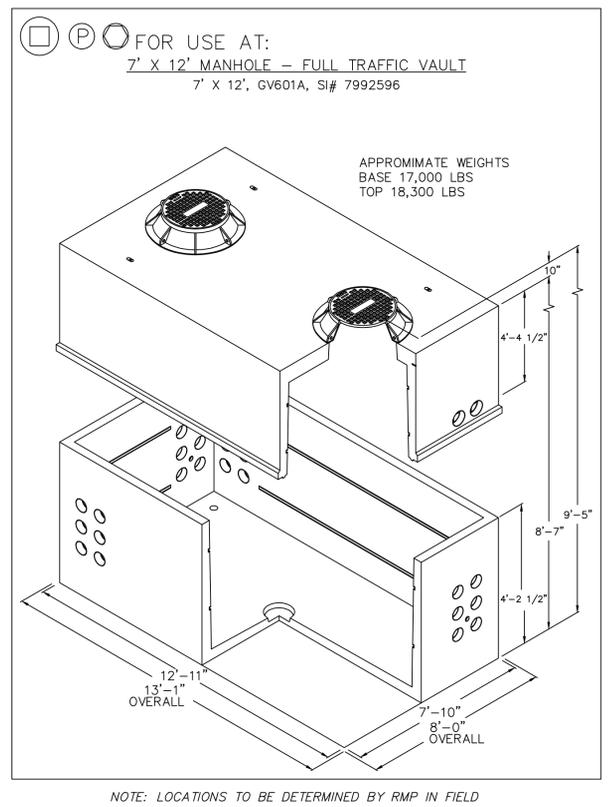
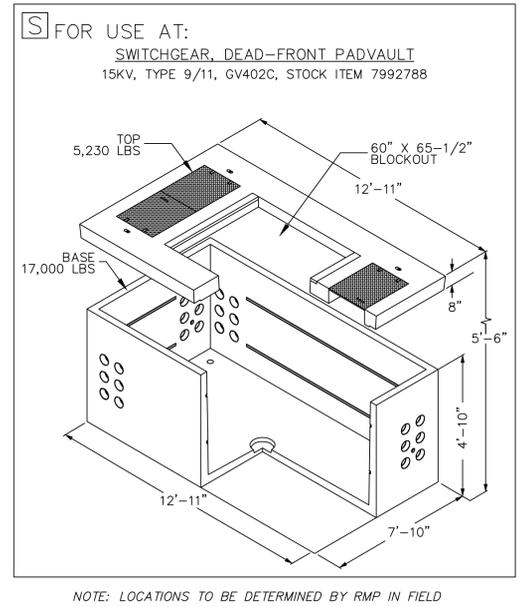
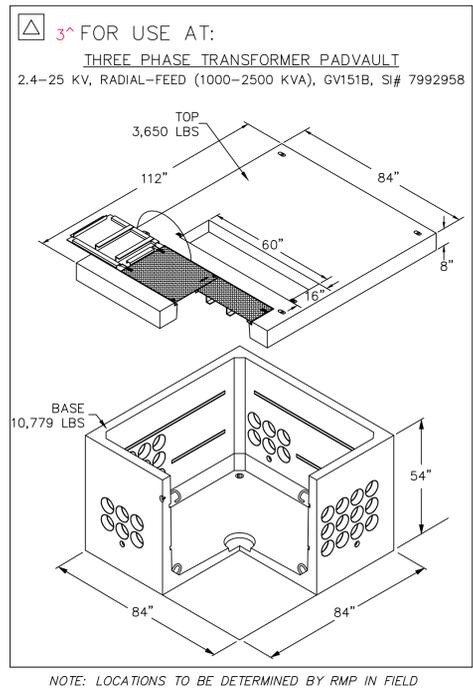
DATE SUBMITTED: 11/4/2013

PREPARED FOR: SUMMIT, LLC



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





POWER CONDUIT TRENCH
 VAR NTS

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

PHASE 1B CONSTRUCTION ELECTRICAL DETAILS

PREPARED FOR: SUMMIT, LLC

DATE SUBMITTED: 11/4/2013

NV5
 BEYOND ENGINEERING

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

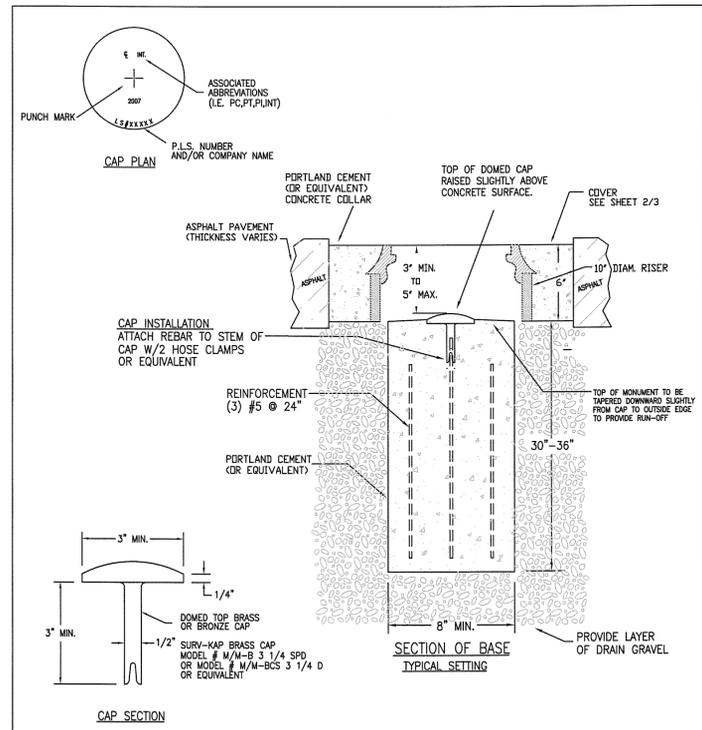
REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 10/4/13
 STATE OF UTAH

SHEET NUMBER
5.20

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

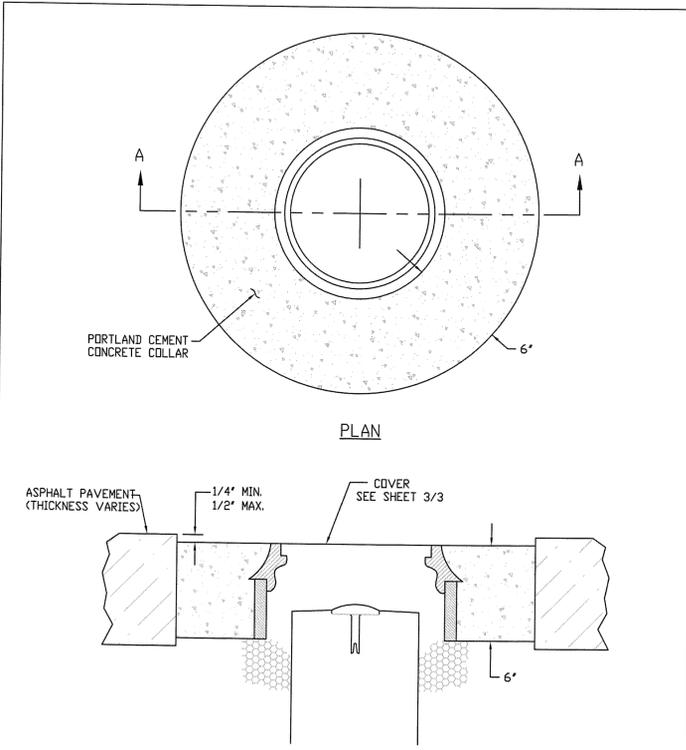
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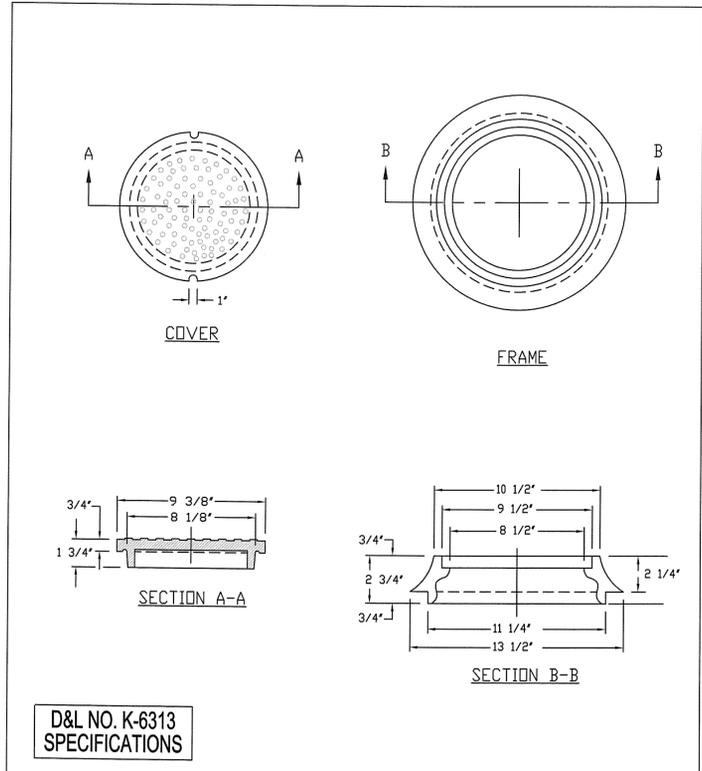


CAP CAN BE PURCHASED FROM SURVEYOR'S OFFICE

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	RMC	8/27/2013	ADDENDUM 1
2	RMC	8/27/2013	UTILITY, GRADING, AND SOCIETY REV.

PHASE 1B CONSTRUCTION

MISCELLANEOUS DETAILS

DATE SUBMITTED: 11/4/2013

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
 10/4/13
 STATE OF UTAH

SHEET NUMBER
5.30

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

JOB NUMBER
SLB079306



ELECTRICAL SYMBOLS LEGEND

	SELECTOR SWITCH 2 POSITION		THERMAL OVERLOAD RELAY
	NORMALLY OPEN TIME DELAY CLOSING AFTER COIL ENERGIZED		DETAIL DESIGNATION
	NORMALLY CLOSED TIME DELAY OPENING AFTER COIL ENERGIZED		DETAIL CALL OUT
	INDICATOR LIGHT		SHEET REFERENCE
	REMOTE DEVICE CONNECTION		GROUND ROD
	CLOSED RELAY CONTACT		GROUND ROD IN GROUND WELL
	OPEN RELAY CONTACT		GROUND RISER FROM THE GROUND PLATE (REBAR)
	TERMINAL TO EXTERNAL REMOTE DEVICE		BOLTED AND WELDED GROUND CONNECTIONS, RESPECTIVELY
	WIRE TERMINAL OR CONNECTION POINT		GROUND CABLE: • EMBEDDED IN CONCRETE • BURIED IN EARTH • EXPOSED
	SINGLE PHASE MOTOR		CONDUIT EXPOSED
	MOTOR OVERLOAD RELAY		CONDUIT RUN UNDERGROUND OR IN CONCRETE
	LIMIT SWITCH		BARE COPPER WIRE IN SLAB OR UNDERGROUND GRID, SIZE AS NOTED
	CONTROL RELAY		TRANSFORMER W/ DELTA-Y AND GROUND
	TRANSFORMER		UTILITY METER
	SELECTOR SWITCH 3 POSITION MAINTAINED CONTACT		UTILITY CT
	LEVEL SWITCH CLOSING ON FALLING LEVEL		MOTOR, HORSEPOWER AS NOTED
	LEVEL SWITCH CLOSING ON RISING LEVEL		CIRCUIT BREAKER
	CONTROL SWITCH PUSHBUTTON, MOMENTARY CONTACT		ELECTRICAL PANEL
	GROUND CONNECTION		FUSE
	FRACTIONAL HP MOTOR		MOTOR STARTER NEMA SIZE AS NOTED
	CONTROL STATION		DISCONNECT SWITCH SIZE AS NOTED
	JUNCTION BOX		GFCI DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE		INCANDESCENT FIXTURE
	LIGHT FIXTURE TYPE AS INDICATED		POLE MOUNTED HID FIXTURE
	FUSED DISCONNECT		ELECTRICAL CONNECTION
	SINGLE LIGHT SWITCH		
	DISCONNECT UNFUSED SIZE NOTED		
	CONTACTOR/STARTER (NO. OF POLES SHOWN)		
	CIRCUIT BREAKER (NO. OF POLES SHOWN)		
	SOLENOID		
	FLOW SWITCH CLOSING ON LOW FLOW		
	PRESSURE SWITCH CLOSING ON RISING PRESSURE		

EQUIPMENT GROUNDING CONDUCTORS

FUSE OR CB SIZE	CB SIZE (COPPER)
15	14
20	12
30	10
40	10
60	10
100	8
200	6
300	4
400	3
500	2
600	1
800	1/0
1000	2/0
1200	3/0
1600	4/0
2000	250
2500	350

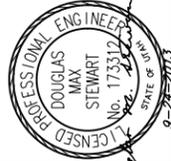
GROUNDING ELECTRODE CONDUCTOR SERVICE ENTRANCE OR SEPARATELY DERIVED SYSTEM

COPPER CONDUCTOR	WIRE SIZE
#2 OR SMALLER	#8
1 OR 1/0	#6
2/0 OR 3/0	#4
>3/0 THRU 350 KCMIL	#2
>350 KCMIL THRU 600 KCMIL	1/0

GENERAL NOTES:

1. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO ENSURE NEC CODE CLEARANCE REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
2. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED BEFORE BEGINNING ROUGH-IN.
3. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH-IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC.
4. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH ELECTRICAL ROOMS OR SPACES; OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN THE OTHER AREAS.
5. ALL PENETRATIONS OF FLOORS, WALLS AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL.
6. FOR PACKAGE EQUIPMENT PROVIDED ON THE PROJECT, SOME CONDUITS AND WIRES ARE SHOWN ON THE DRAWINGS, BUT IT IS EXPECTED THAT SOME ADDITIONAL CONDUITS AND WIRES MAY BE REQUIRED BY EQUIPMENT MANUFACTURERS TO COMPLETE INSTALLATION. IT IS INCUMBENT UPON THE GENERAL CONTRACTOR TO COORDINATE THIS REQUIREMENT WITH HIS SUBCONTRACTORS TO MAKE SURE THAT EQUIPMENT SUPPLIER PROVIDED ALL NECESSARY ELECTRICAL INFORMATION TO ELECTRICAL SUBCONTRACTOR FOR INCLUSION WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS.
7. IF OTHER THAN FIRST NAMED EQUIPMENT IS USED, IT SHALL BE CAREFULLY CHECKED FOR ELECTRICAL REQUIREMENTS AND CONTROL REQUIREMENTS OF ALTERNATE EQUIPMENT. SHOULD CHANGES OR ADDITIONS OCCUR IN ELECTRICAL WORK, OR THE WORK OF OTHER CONTRACTORS BE REVISED BY THE ALTERNATE EQUIPMENT, THE COST OF ALL CHANGES SHALL BE BORNE BY THE CONTRACTOR.
8. IT IS THE ELECTRICAL SUBCONTRACTOR'S RESPONSIBILITY TO DELIVER THE COMPLETE SET OF PLANS IN ORDER TO INSURE THAT ALL ITEMS RELATED TO ELECTRICAL POWER AND CONTROL SYSTEMS ARE COMPLETELY ACCOUNTED FOR.
9. ALL EQUIPMENT DIMENSIONS SHOWN ON PLANS AND ELEVATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL USE THE SHOP DRAWINGS FOR PROPER LAYOUT, FOUNDATION AND PAD, ETC. FOR FINAL INSTALLATION WITHOUT ANY ADDITIONAL COST TO THE OWNER.
10. THE DRAWINGS DIAGRAMMATICALLY INDICATE THE DESIRED LOCATION AND ARRANGEMENT OF OUTLETS, CONDUIT RUNS, EQUIPMENT AND OTHERS ITEMS. DETERMINE EXACT LOCATIONS IN THE FIELD BASED ON PHYSICAL SIZE AND ARRANGEMENT OF EQUIPMENT, FINISHED ELEVATIONS, AND OTHERS OBSTRUCTIONS. LOCATIONS SHOWN ON THE DRAWINGS, HOWEVER, SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE.

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NO.	DATE	REV. BY	DESCRIPTION

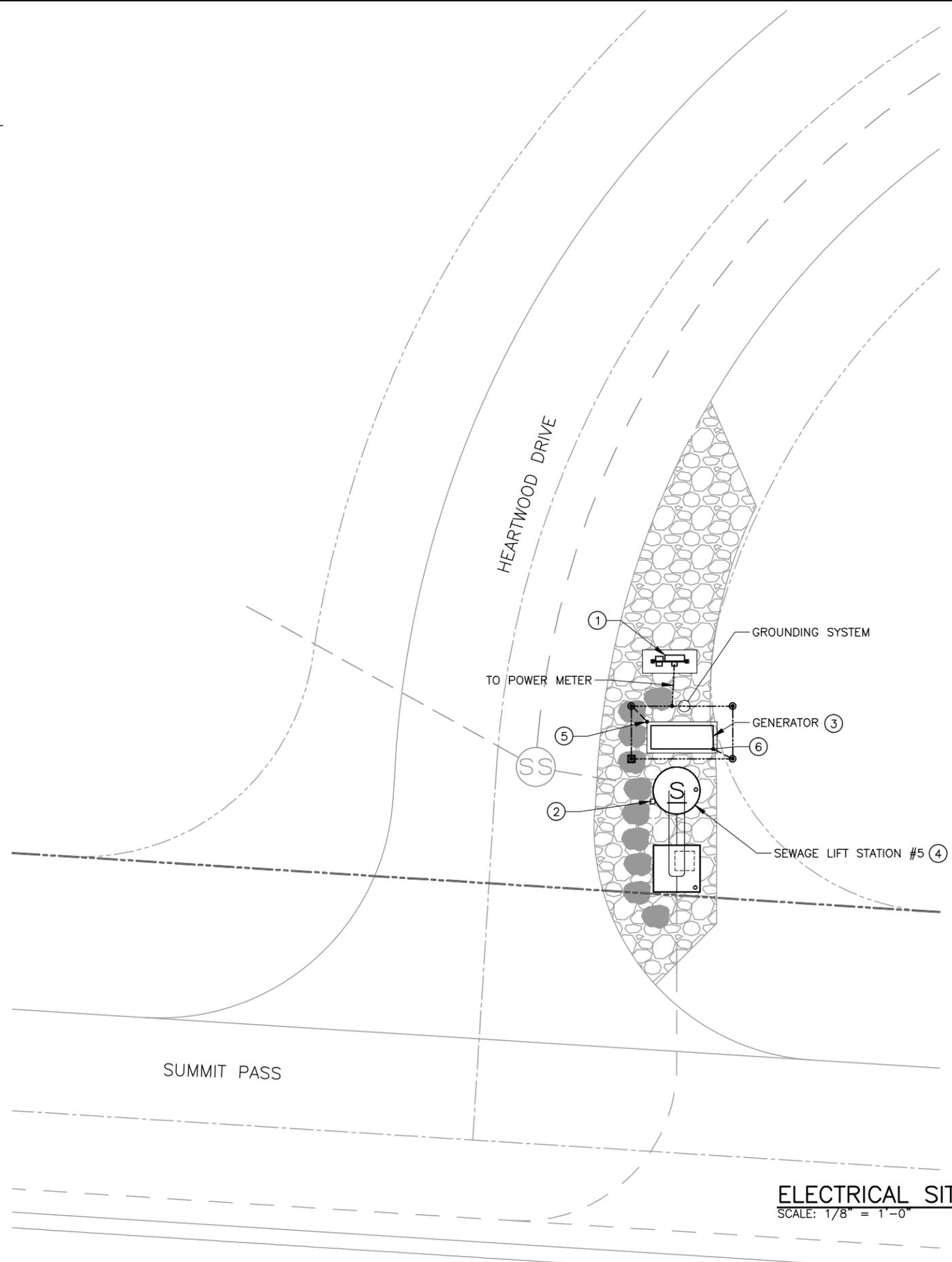
VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGN	D. STEWART
DESIGN	D. STEWART
DRAWN	D. LAMPH
REVIEW	D. STEWART
CHECKED	D. STEWART
APPROVED	J. BECKMAN

ELECTRICAL SYMBOLS AND NOTES

DATE: September 2013

PROJECT NUMBER 334-13-01



ELECTRICAL SITE PLAN SEWAGE LIFT STATION #5
 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. THE GROUNDING SYSTEM SHALL HAVE A GROUND RING OF 2/0 AWG BARE COPPER BURIED NOT LESS THAN 30" BELOW THE EARTH'S SURFACE. CONNECT REBAR TO THE GROUND RING VIA 2/0 AWG BARE COPPER GROUND CABLE (GROUND RISERS). EQUIPMENT AND MISCELLANEOUS METALWORK SHALL BE CONNECTED TO THE GROUND RING WITH 2/0 AWG BARE COPPER GROUND CABLE. 2/0 AWG CONDUCTOR FROM GROUND RING SHALL CONNECT TO GENERATOR, METER BASE, AND AUTOMATIC TRANSFER SWITCH. THE GROUND RING SHALL BE A MINIMUM OF 2 FEET FROM GENERATOR FOUNDATION WHERE POSSIBLE. REFER TO DETAILS E-5001, E-5002, E-5003.
2. DRAWING SHOWS TYPICAL LOCATIONS OF GROUNDING SYSTEM COMPONENTS.
3. DRAWING SHOWS APPROXIMATE LOCATIONS AND MINIMUM NUMBER OF RISERS AND GROUNDING CONNECTIONS TO BE INSTALLED.
4. REFER TO POWER ONE-LINE DIAGRAM FOR GENERATOR SIZE AND CONDUIT AND CONDUCTOR SIZES.
5. REFER TO POWER ONE-LINE DIAGRAM FOR PUMP SIZES AND QUANTITY. FOR CONDUIT AND CONDUCTOR SIZES REFER TO POWER ONE-LINE DIAGRAM AND CONTROL BLOCK DIAGRAM.

KEY NOTES:

- ① SEWAGE LIFT STATION CONTROL PANEL, AUTOMATIC TRANSFER SWITCH, POWER METER, AND POWER PANEL. REFER TO POWER ONE-LINE DIAGRAM AND CONTROL BLOCK DIAGRAM FOR SIZES AND MORE INFORMATION. REFER TO DETAIL E-5073 FOR MOUNTING INFORMATION.
- ② JUNCTION BOX TO CONNECT PUMP CABLES AND LEVEL SWITCHES REFER TO DETAIL E-5201
- ③ STANDBY GENERATOR WITH CONCRETE PAD AND GROUND SYSTEM. THE GENERATOR PAD SHALL BE SIZED BY CONTRACTOR FOR GENERATOR REFER TO DETAIL E-5081, APPROXIMATE SIZE IS 9 FEET LONG BY 4 FEET WIDE.
- ④ REFER TO CIVIL DRAWINGS FOR LOCATION AND MECHANICAL DRAWINGS FOR SECTION VIEW OF LIFT STATION.
- ⑤ CONNECT TO REBAR.
- ⑥ CONNECT TO GENERATOR.

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REVIEW: D. STEWART
 CHECKED: D. STEWART
 APPROVED: J. BECKMAN

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PROJECT NUMBER: 334-13-01
 DATE: September 2013

DRAWING NO.: E-2
 SHEET 2 OF 5

THE ORIGINAL DRAWING WAS STAMPED BY DOUGLAS MAX STEWART REGISTERED P.E. UTAH 173312

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1	10/2013	PMS	ADDENDUM NO. 1

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CHECKED D. STEWART
APPROVED D. STEWART

DESIGN
DESIGN T. BIRD
DRAWN D. LAMPH

**SEWER LIFT STATION #5
POWER ONE-LINE
DIAGRAM**

DRAWING NO.
F-3

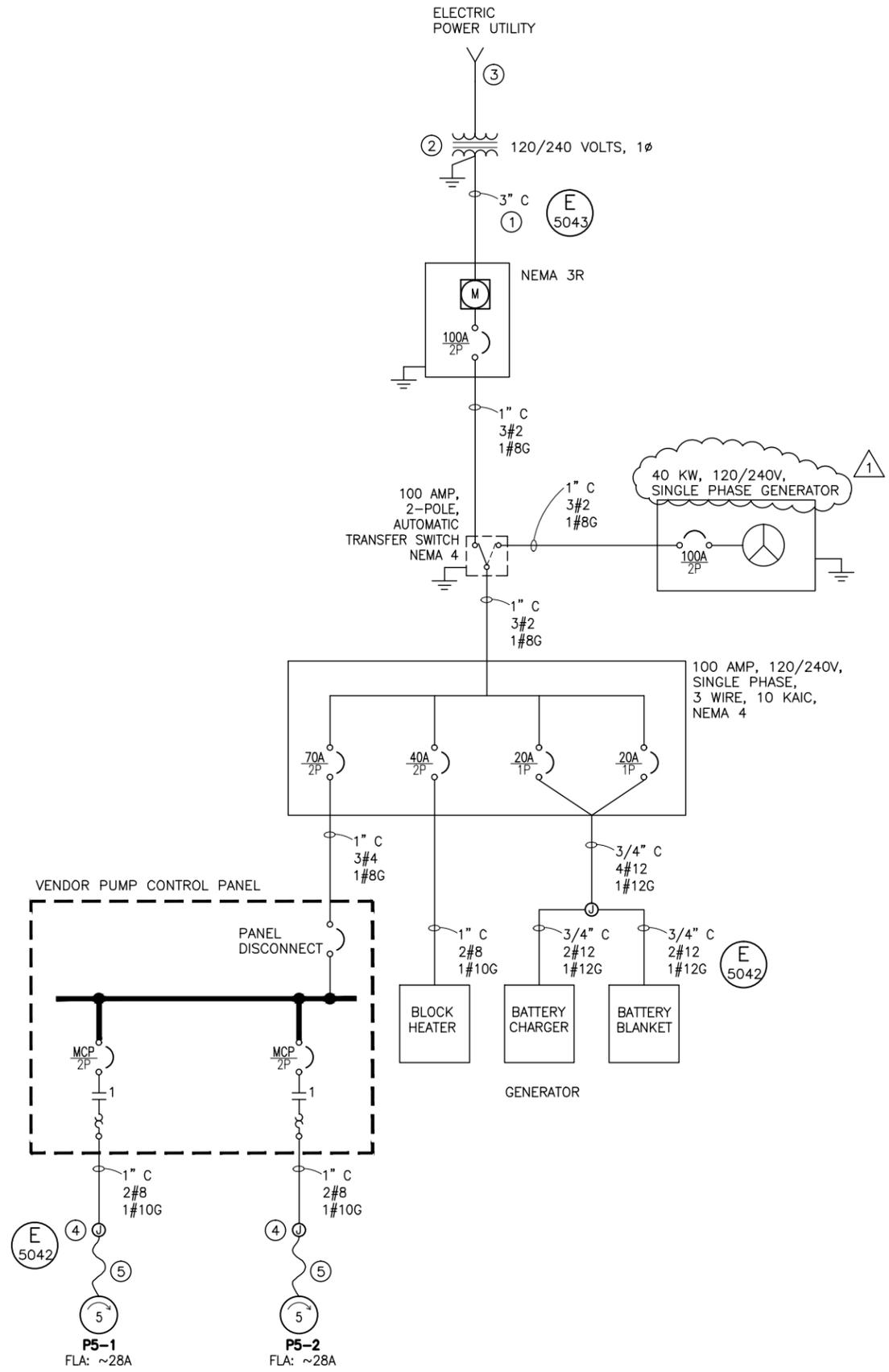
SHEET 3 OF 5

GENERAL NOTES:

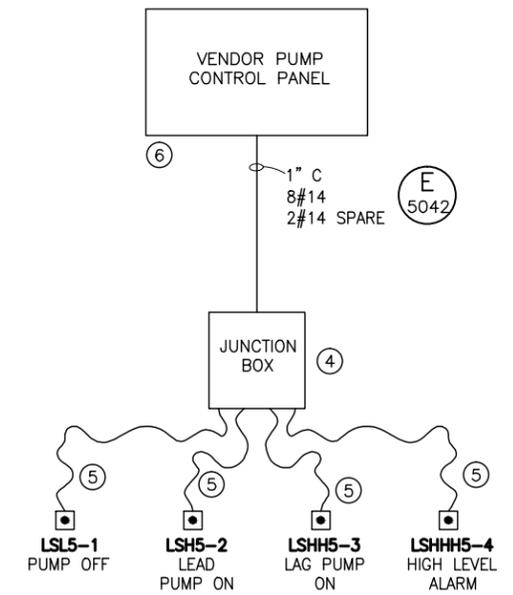
- REFER TO SITE PLAN FOR EQUIPMENT LOCATION.

KEY NOTES:

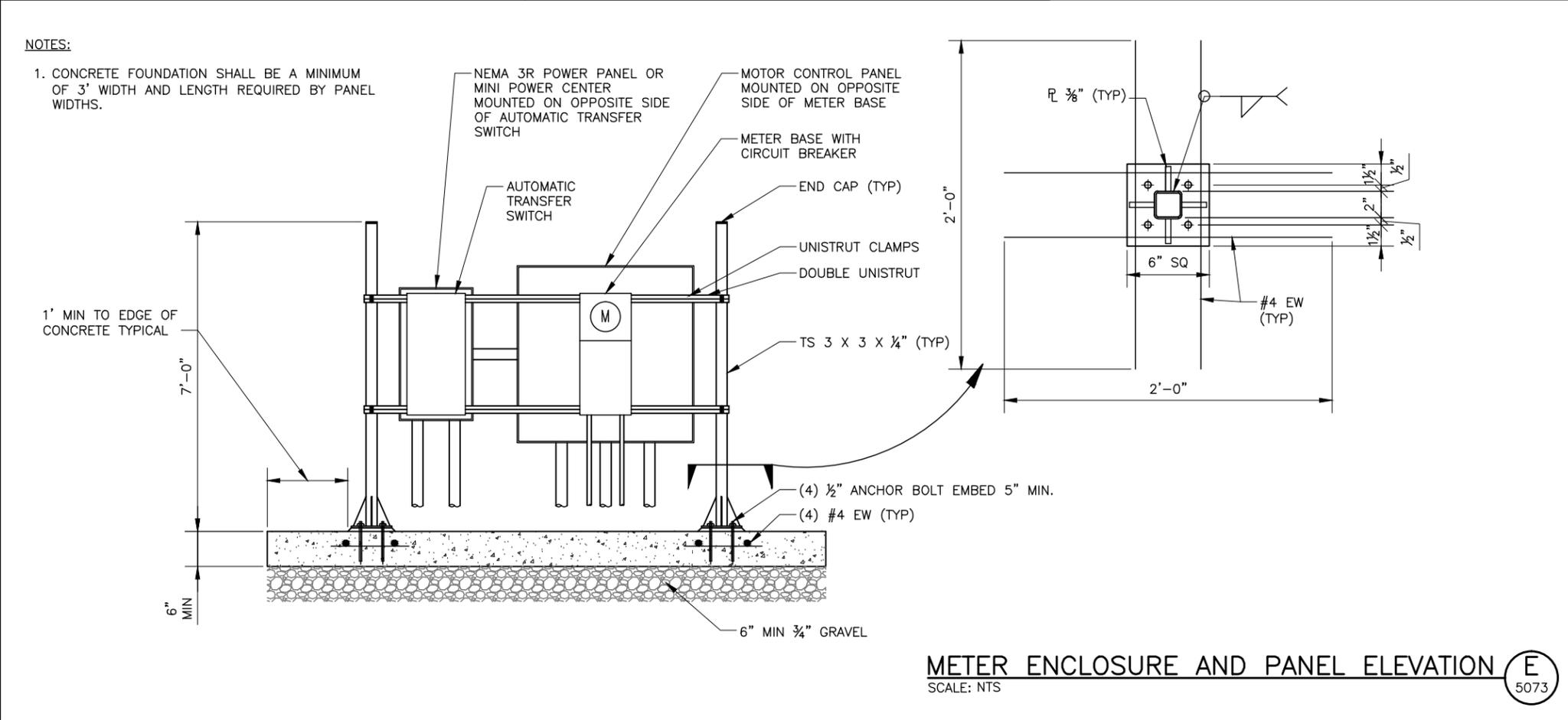
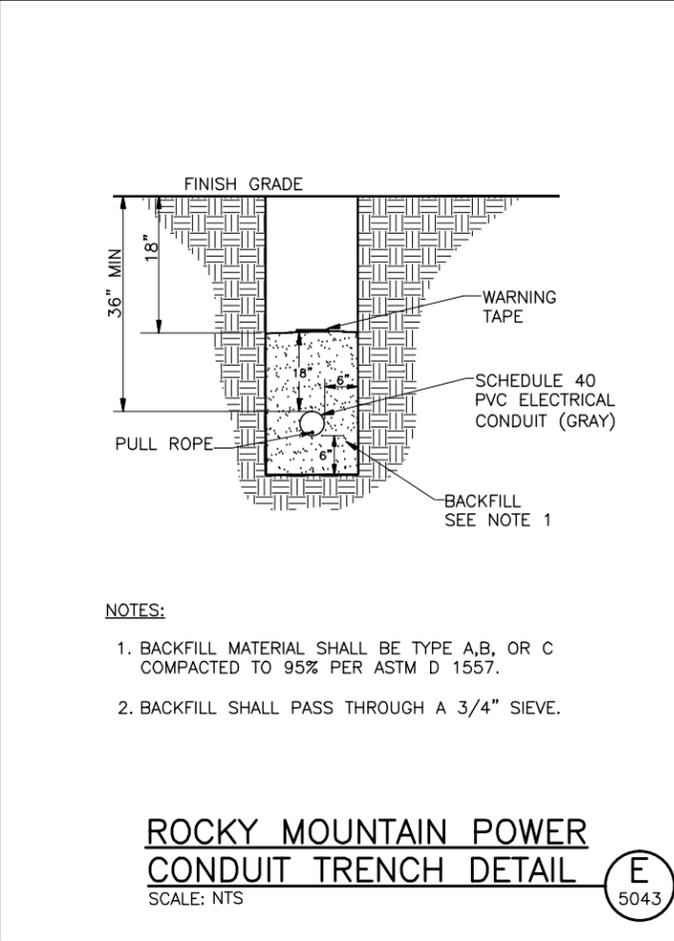
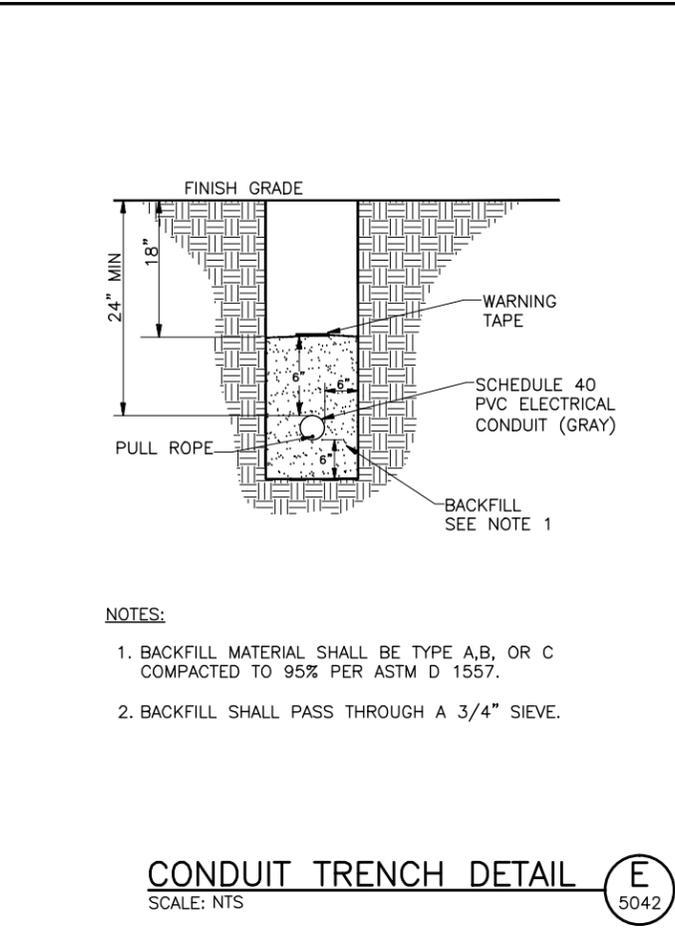
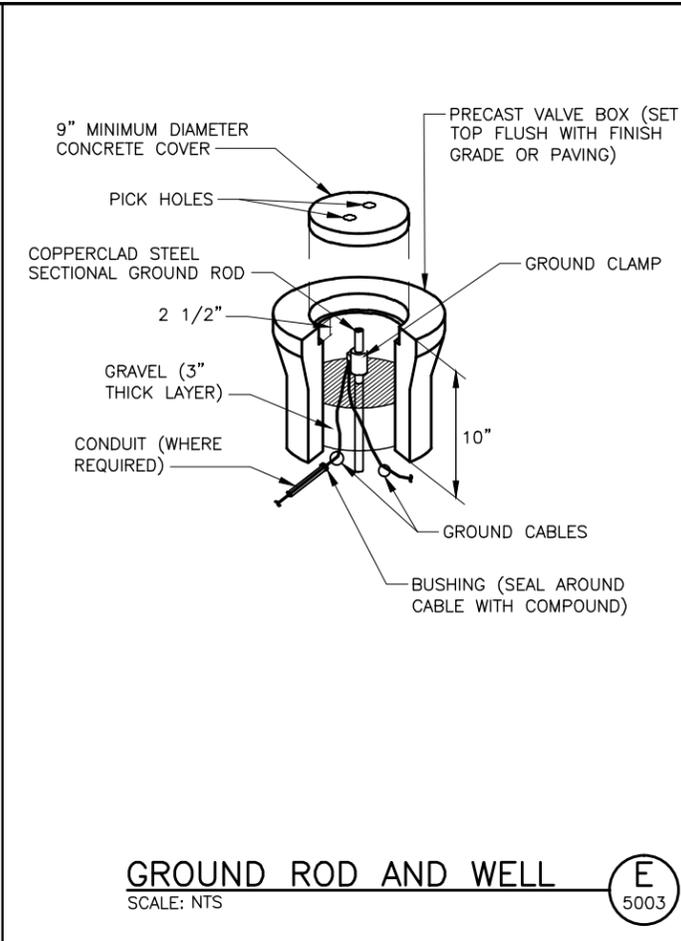
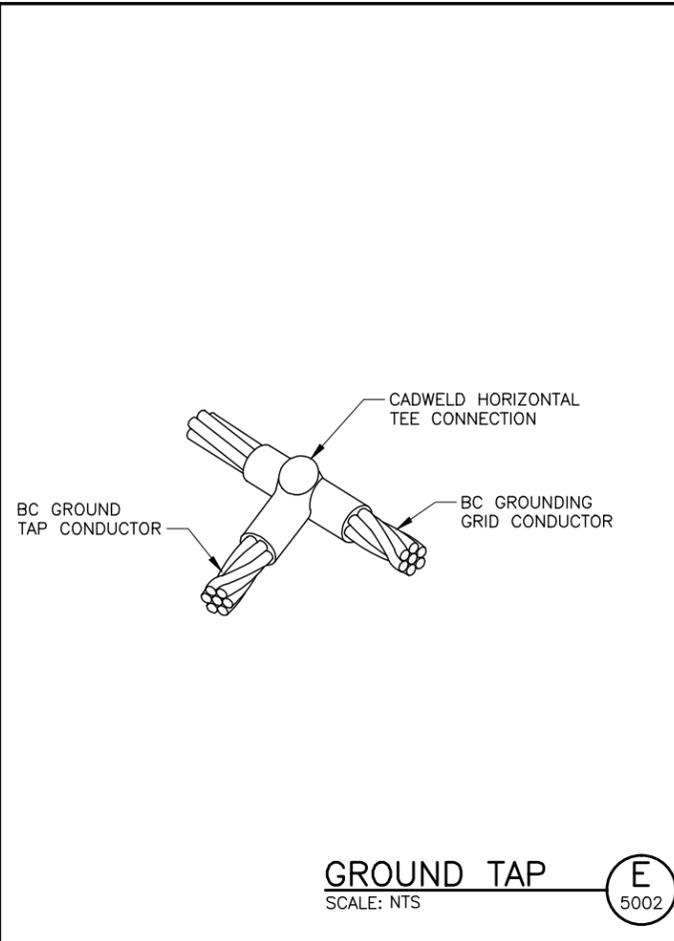
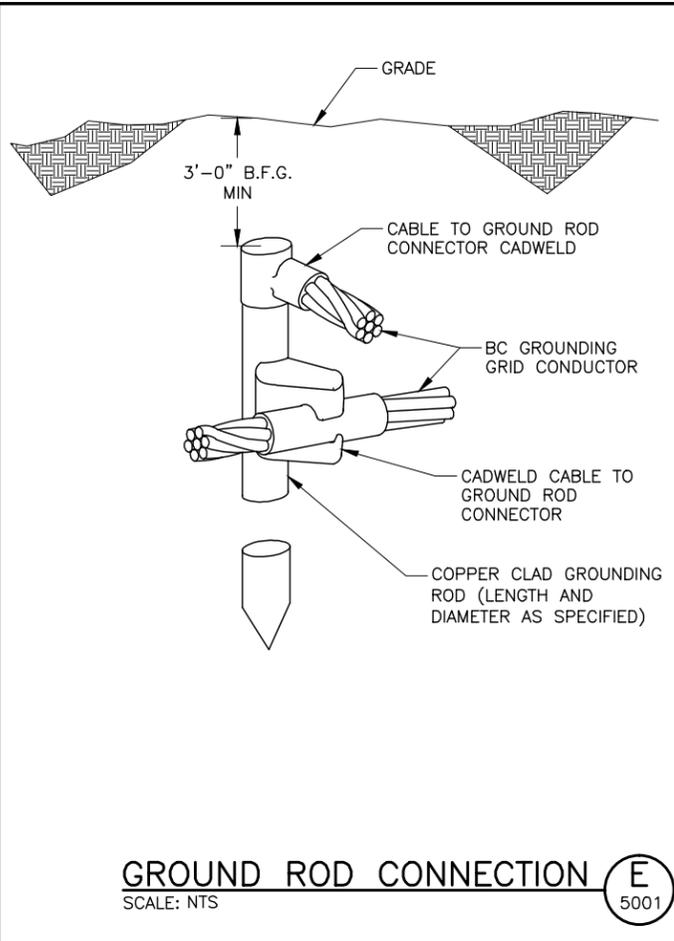
- CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT IN ACCORDANCE WITH ROCKY MOUNTAIN POWER REQUIREMENTS. CONDUCTORS SHALL BE INSTALLED BY ROCKY MOUNTAIN POWER.
- PROVIDED AND INSTALLED BY ROCKY MOUNTAIN POWER.
- PROVIDED AND INSTALLED BY DEVELOPER.
- HAZARDOUS LOCATION JUNCTION BOX AND CONDUIT SEAL REFER TO DETAIL E-5201.
- MANUFACTURER'S CABLE.
- PROVIDE AND INSTALL AN INTRINSICALLY SAFE BARRIER FOR EACH LEVEL SWITCH. THE LEVEL SWITCHES SHALL BE MADE FOR LOW ENERGY CIRCUITS TO BE USED IN A HAZARDOUS LOCATION, ANCHOR SCIENTIFIC TYPE GSI - GOLD OR EQUAL.



POWER ONE-LINE DIAGRAM #5



CONTROL BLOCK DIAGRAM #5



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PROFESSIONAL ENGINEER
DOUGLAS MARK STEWART
No. 173512
STATE OF UTAH

REVISIONS

NO.	DATE	REV. BY	DESCRIPTION

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CHECKED: D. STEWART
APPROVED: J. BECKMAN

SUMMIT AT POWDER MOUNTAIN
PHASE 1B
POWDER MOUNTAIN, UT

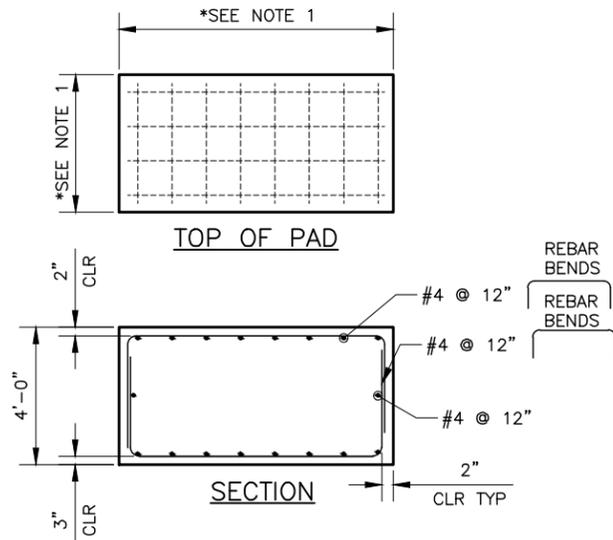
ELECTRICAL

ELECTRICAL DETAILS - 1

DATE: September 2013
PROJECT NUMBER: 334-13-01

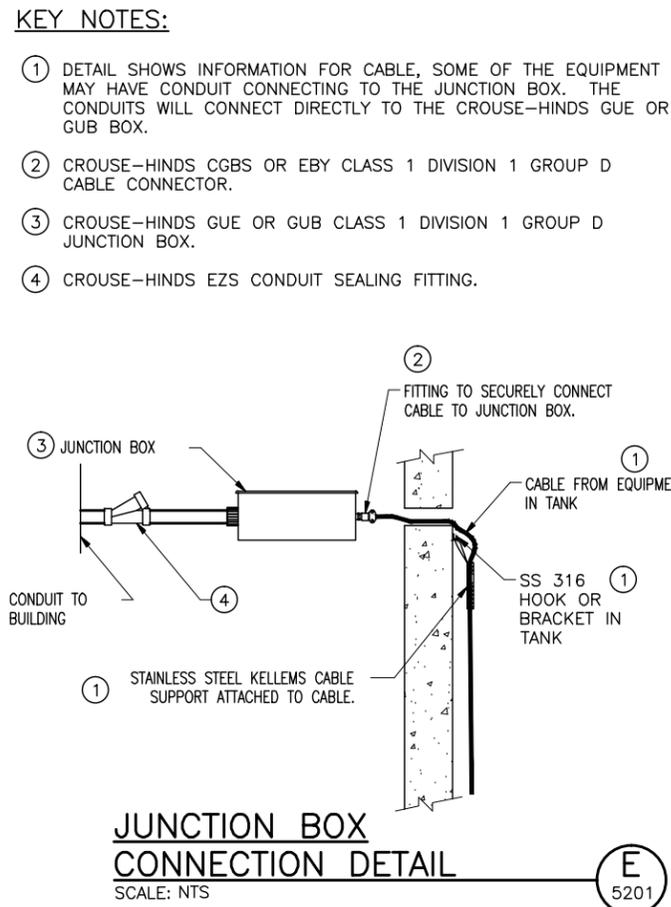
DRAWING NO. **GE-1**

SHEET **4** OF **5**

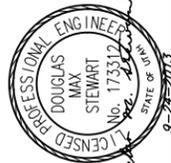


NOTES:
 1. THE LENGTH AND WIDTH OF THE GENERATOR PAD WILL BE SIZED AS NEEDED TO ACCOMMODATE THE GENERATOR WITH AN ADDITIONAL EIGHT INCHES OF SPACE ON ALL SIDES. ANCHOR GENERATOR TO CONCRETE PAD WITH FOUR 5/8" EPOXY ANCHORS, MINIMUM 4" EMBEDDED INTO CONCRETE.

CONCRETE GENERATOR PAD (E) 5081
 SCALE: NTS



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 POWDER MOUNTAIN, UT

ELECTRICAL
ELECTRICAL DETAILS - 2
 DATE: September 2013
 PROJECT NUMBER: 334-13-01

DRAWING NO. **GE-2**
 SHEET **5** OF **5**