

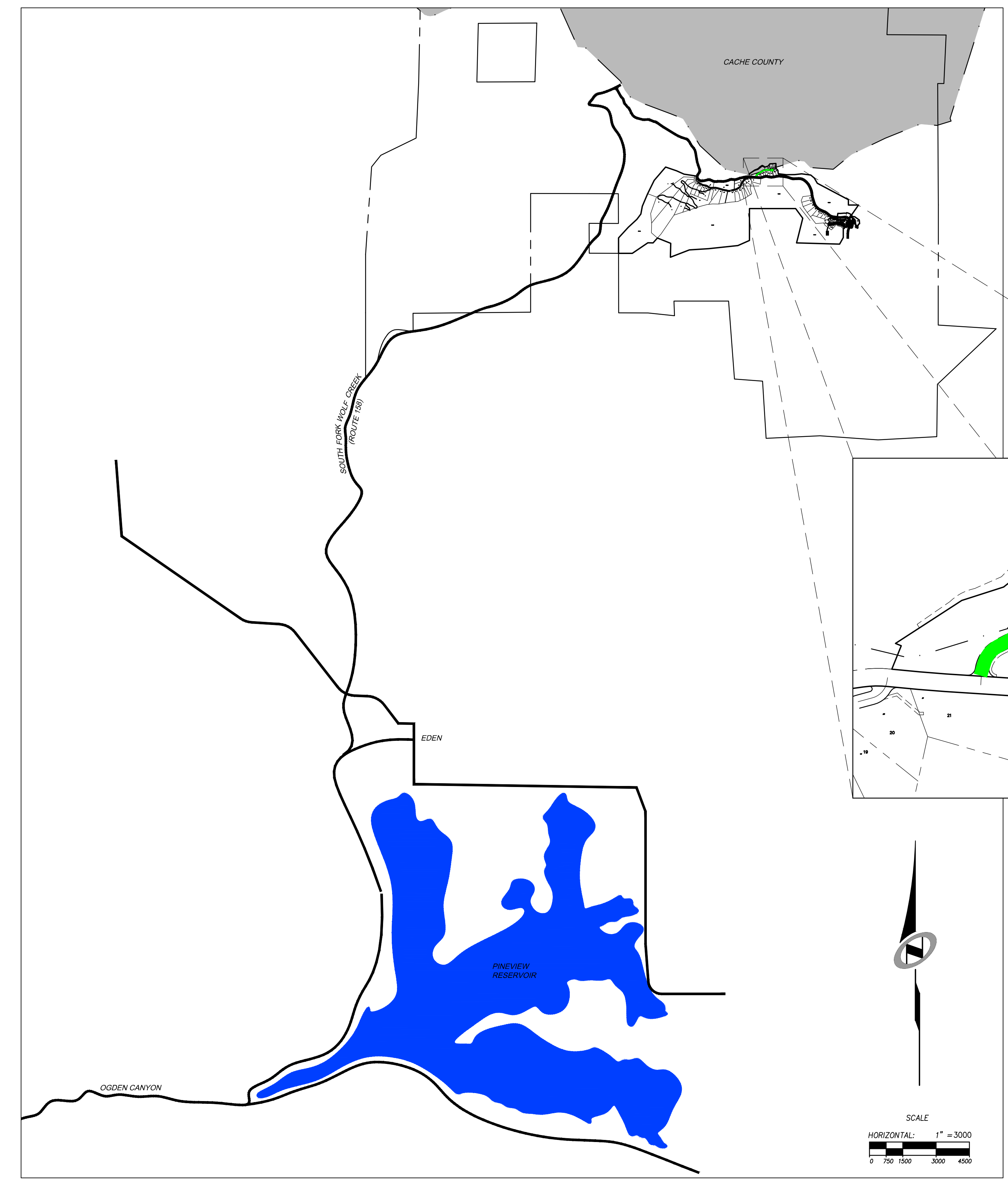
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BOWDEN  
 XREFS:

# SUMMIT EDEN PHASE 1B

## ROADWAY AND UTILITY CONSTRUCTION DRAWINGS

**Located in Sec 01 T7N R1E**  
**Weber County, Utah**



**SHEET INDEX:**

| SHEET NO. | SHEET DESCRIPTION                           |
|-----------|---|
| 1.00      | CIVIL TITLE SHEET                           |
| 1.01      | GENERAL NOTES, LEGEND, AND KEYNOTES         |
| 1.02      | OVERALL UTILITY                             |
| 1.03      | OVERALL GRADING                             |
| 1.04      | TYPICAL ROADWAY SECTION                     |
| 2.00      | PLAN & PROFILE - HEARTWOOD DRIVE            |
| 3.00      | EARTHWORK & SECTIONS - HEARTWOOD DRIVE      |
| 4.00      | EROSION CONTROL PLAN - HEARTWOOD DRIVE      |
| 5.00      | STORM DRAIN DETAILS                         |
| 5.10      | SEWER DETAILS                               |
| 5.20      | ELECTRICAL DETAILS                          |
| 5.30      | MISCELLANEOUS DETAILS                       |
| E1        | ELECTRICAL NOTES AND DETAILS                |
| E2        | ELECTRICAL SITE PLAN SEWAGE LIFT STATION #5 |
| E3        | LIFT STATION #5 POWER ONE-LINE DIAGRAM      |
| GE-1      | ELECTRICAL DETAILS                          |
| GE-2      | ELECTRICAL DETAILS                          |

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

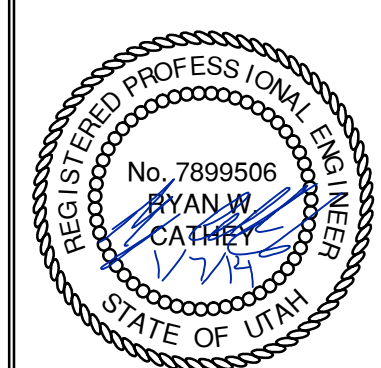
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans, or for any damages or injuries resulting therefrom, unless such changes or uses are specifically approved in writing and must be approved by the preparer of these plans.

CAUTION

**SUMMIT EDEN PHASE 1B**  
 CIVIL TITLE SHEET

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

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



SHEET NUMBER  
**1.00**

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

JOB NUMBER  
**SLB079306**



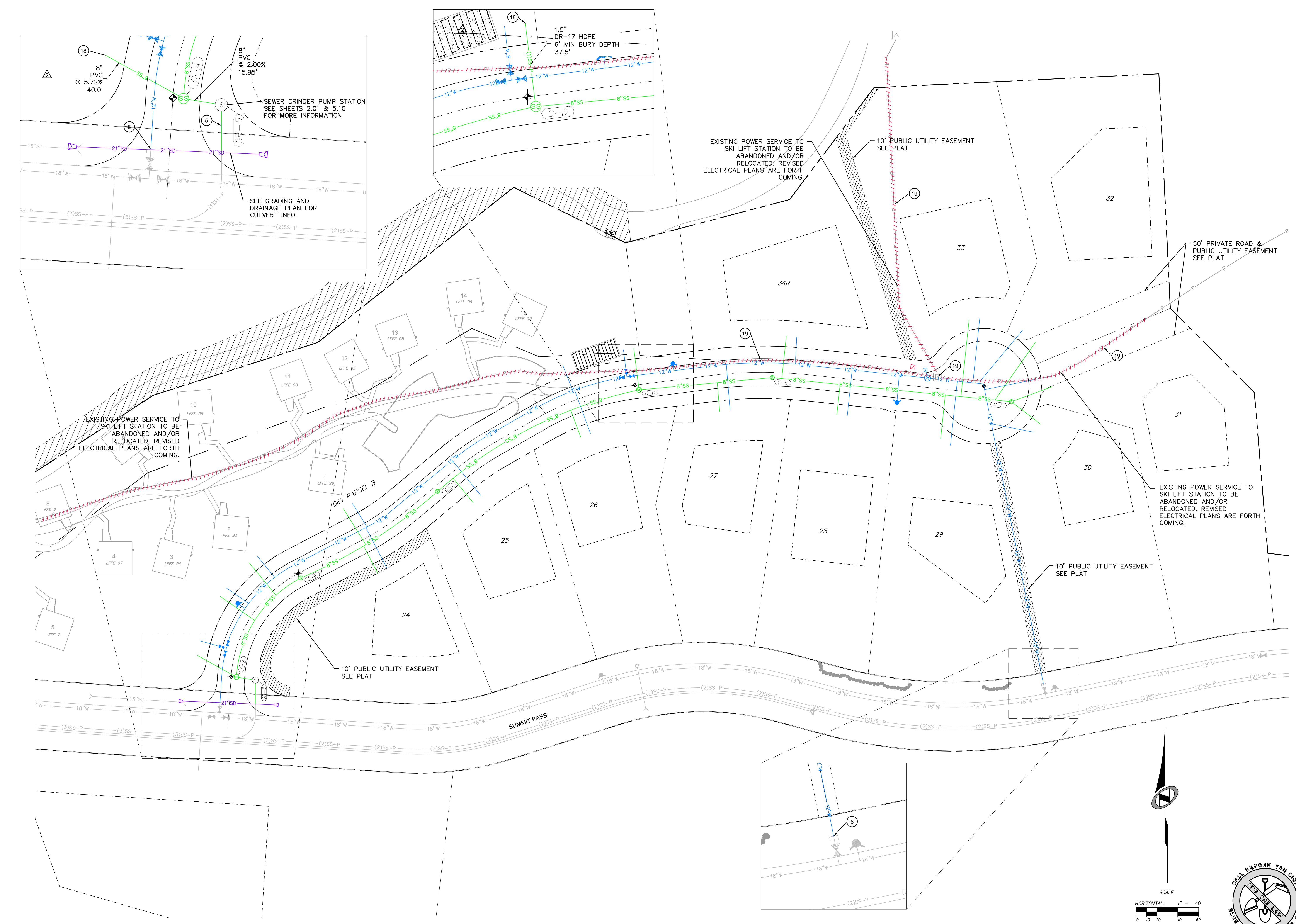






DATE: 1/9/14 TIME: 4:26:18 PM DRAWING NAME: P10201.DWG  
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BOWDEN  
 XREES:



| NO. | BY  | DATE      | REVISIONS                                     |
|-----|-----|-----------|---|
| 1   | PHC | 8/27/2013 | ADDITIONAL UTILITY, GRADING, AND ROCKETRY REV |
| 2   | PHC | 8/27/2013 |   |

# SUMMIT EDEN PHASE 1B

## 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

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

SHEET NUMBER  
**1.02**

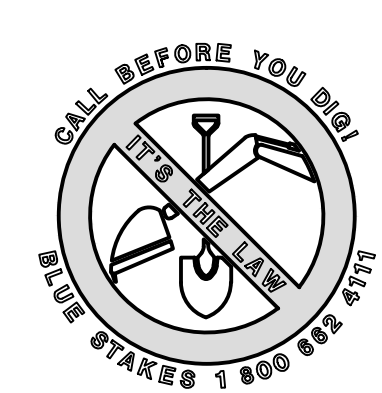
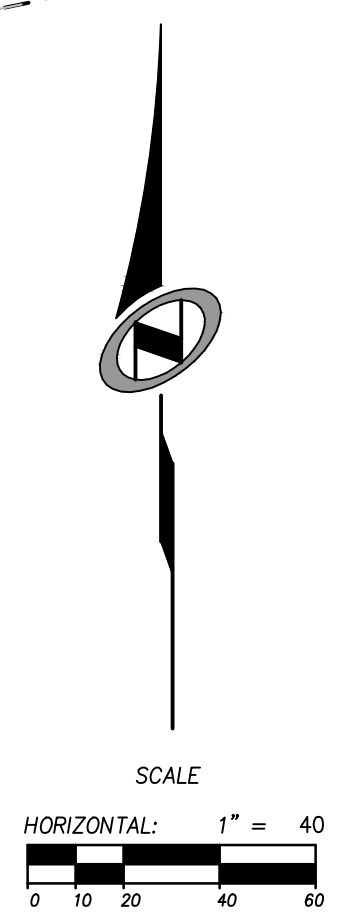
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 HORIZONTAL: 1" = 40'

JOB NUMBER  
**SLB079306**

DATE SUBMITTED: 01/07/2014

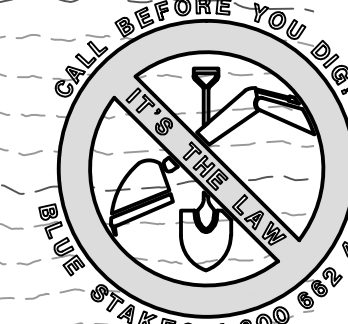
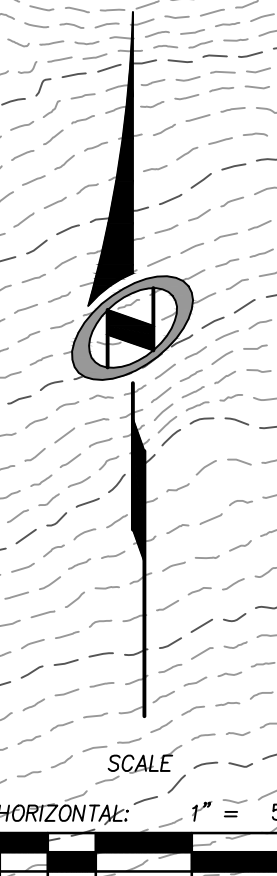
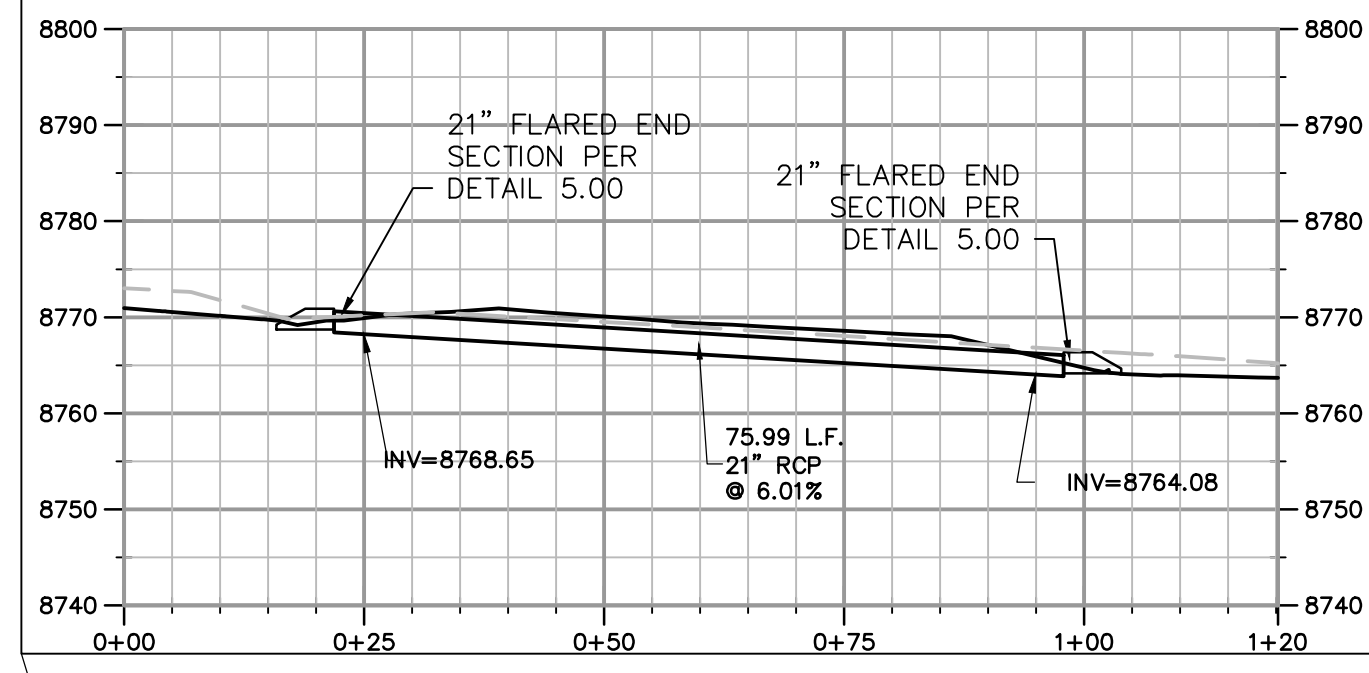
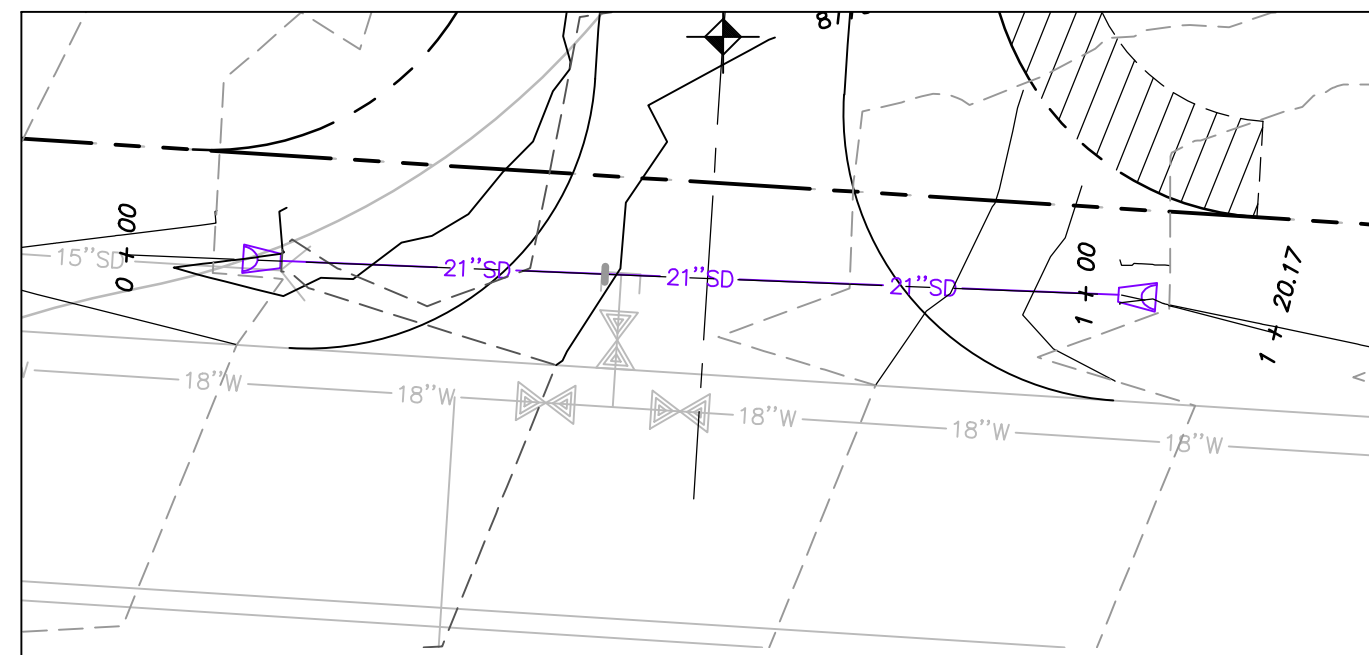
PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC

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.





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

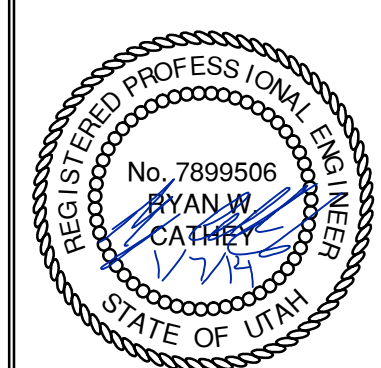
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. The engineer's liability is limited to the design and construction of the project and must be approved by the preparer of these plans.

# SUMMIT EDEN PHASE 1B

## HEARTWOOD DRIVE OVERALL GRADING AND DRAINAGE

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

**NV5**  
BEYOND ENGINEERING  
 6217 SOUTH STATE STREET, SUITE 200  
 801743.000 TEL. 801743.000 FAX  
 MURRAY, UT 84107  
 WWW.NV5.COM



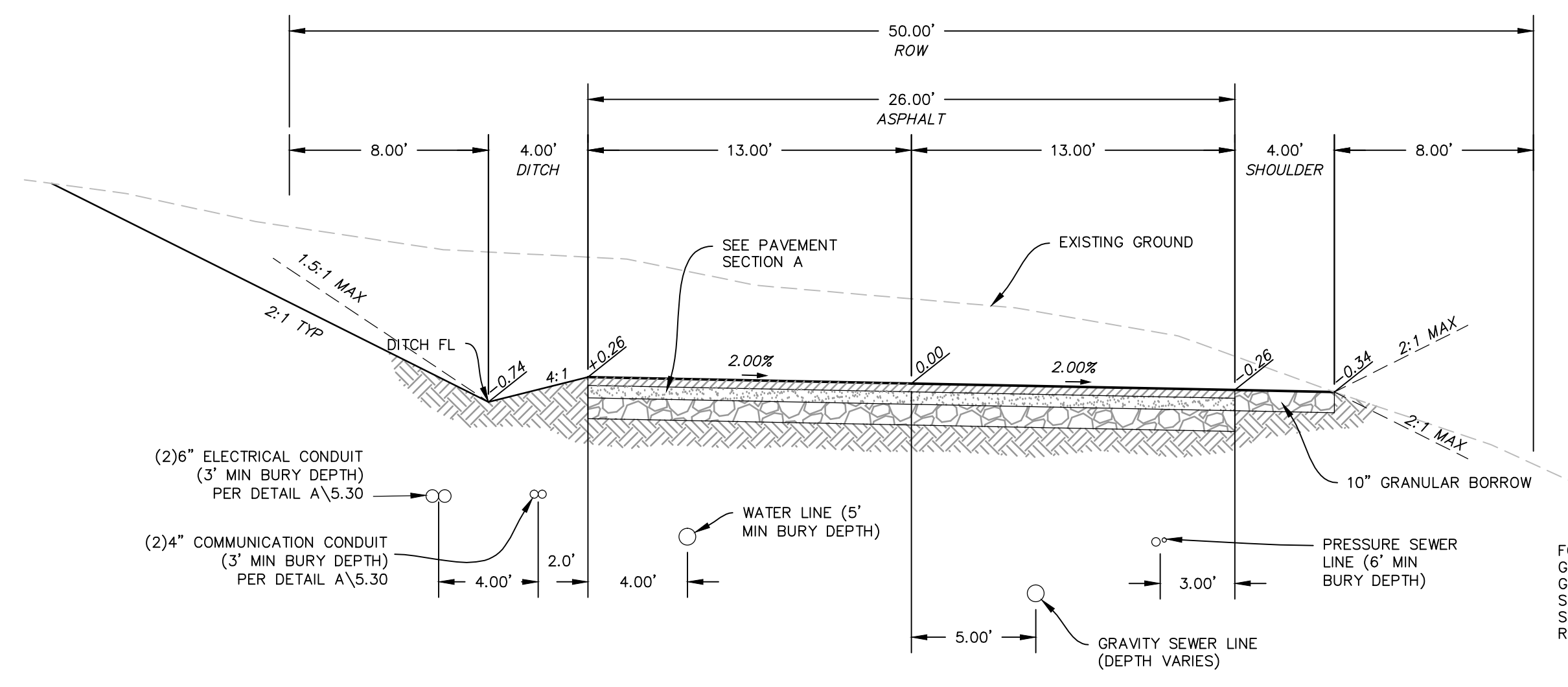
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**1.03**

SCALE  
VERTICAL: 1" = 5'  
HORIZONTAL: 1" = 25'

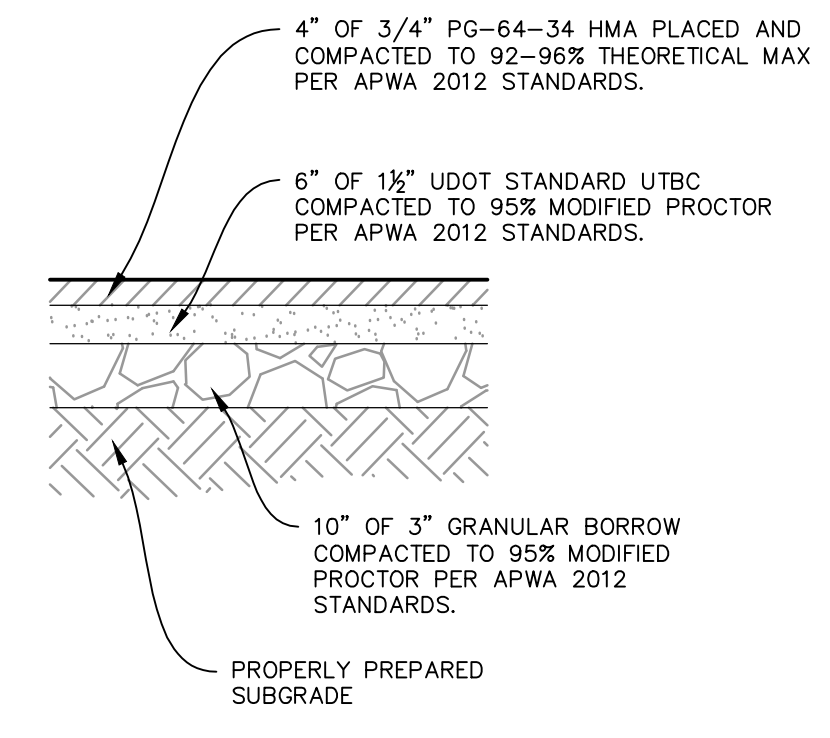
JOB NUMBER  
**SLB079306**

BOWDEN  
XREFS:

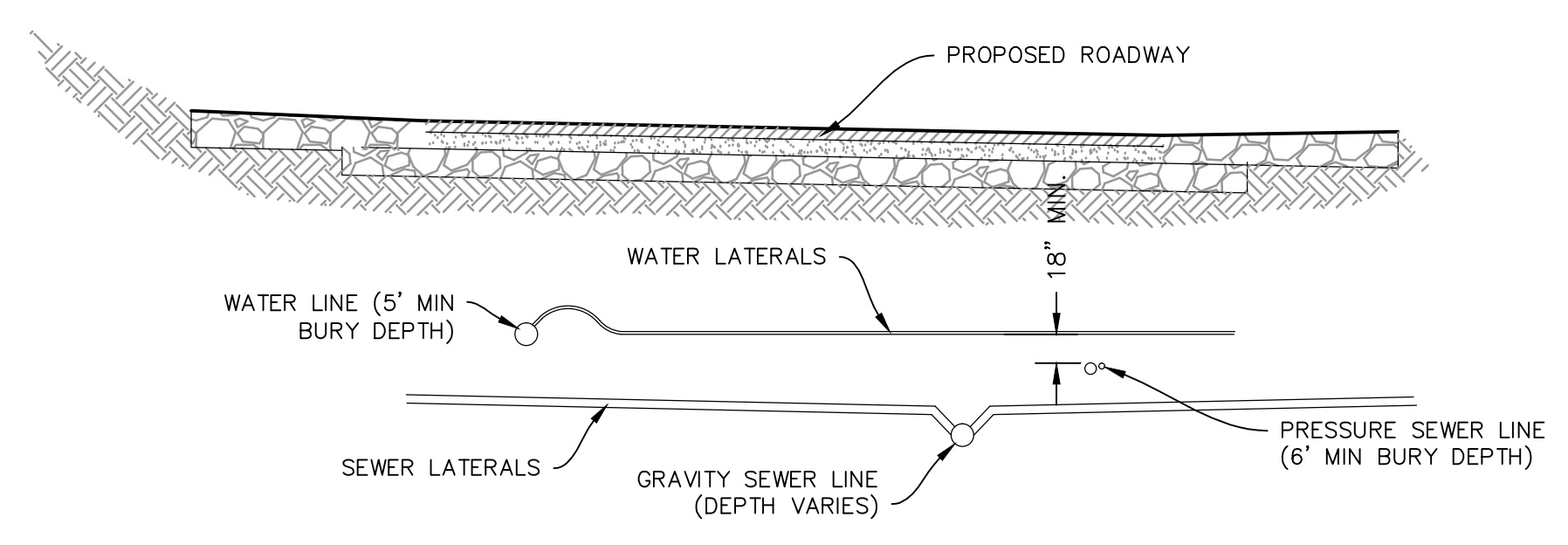




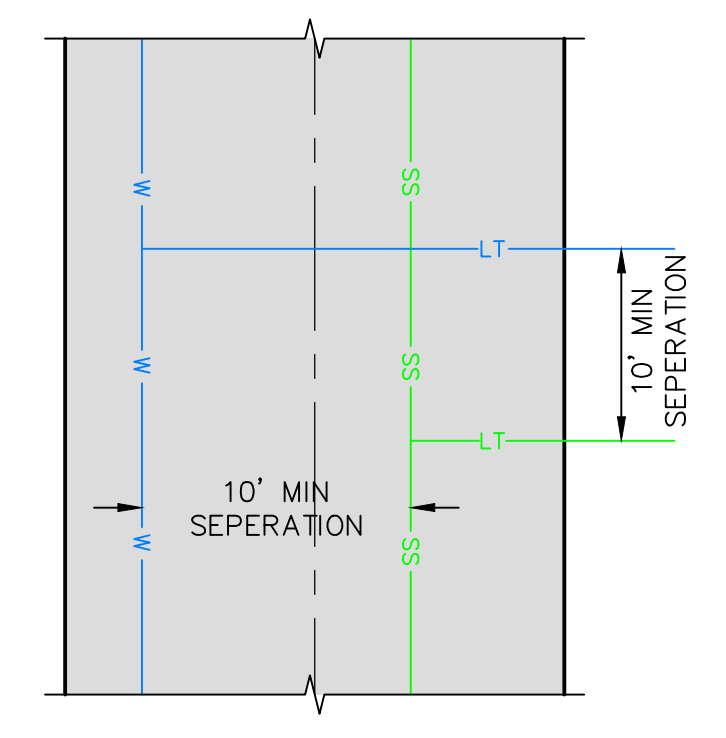
**TYPICAL ROADWAY SECTION A-A**  
 (50' RIGHT OF WAY SECTION)  
 STA: 10+00.00 TO 18+14.86



**PAVEMENT SECTION A**



**SECTION**



**PLAN**

**WATER AND SEWER SEPARATION DETAIL**

| NO. | BY  | DATE      | REVISIONS                        |
|-----|-----|-----------|----------------------------------|
| 1   | RHC | 8/27/2013 | ADD ROW 1                        |
| 2   | RHC | 9/24/2013 | UTILITY, GRADING, AND ROCKET REV |

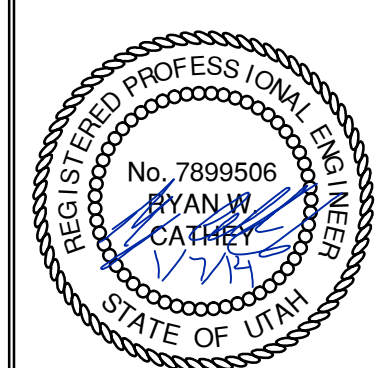
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

**SUMMIT EDEN PHASE 1B**  
**ROADWAY TYPICAL SECTIONS**

DATE SUBMITTED: 01/07/2014

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC

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



SHEET NUMBER  
**1.04**

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

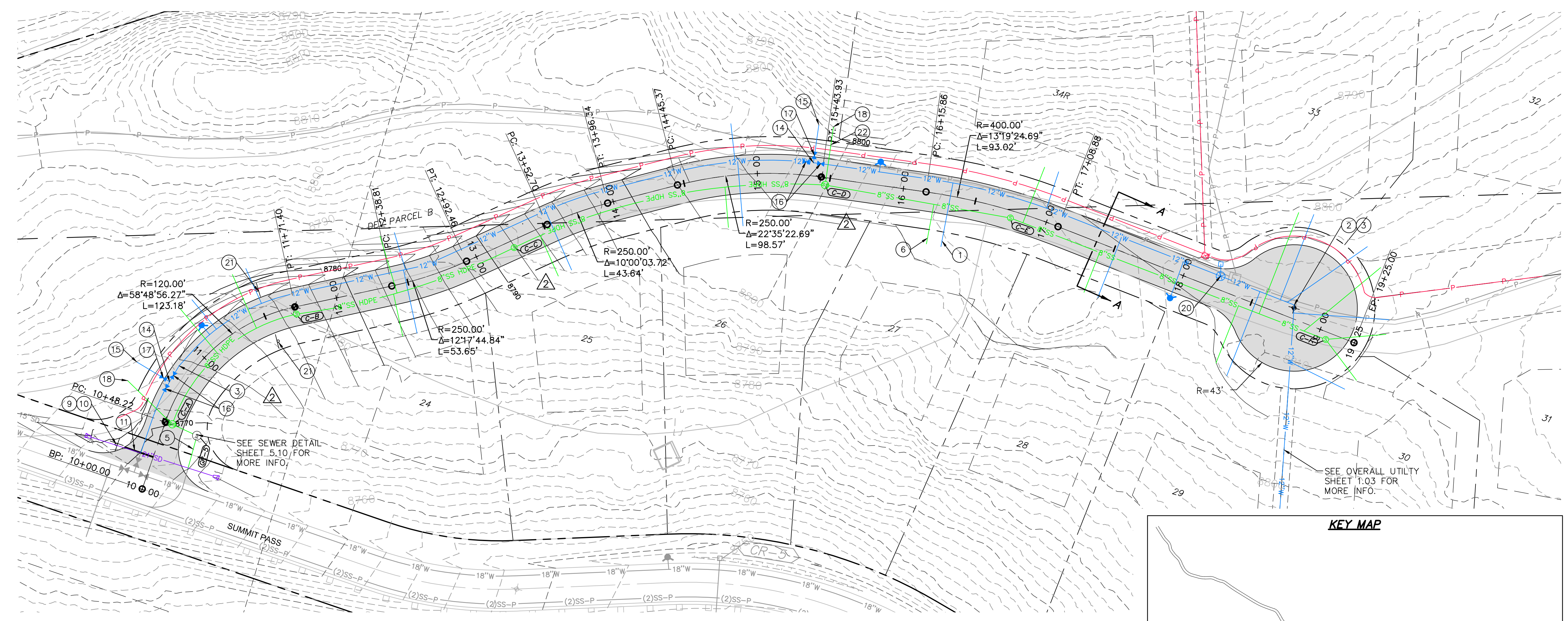
JOB NUMBER  
**SLB079306**



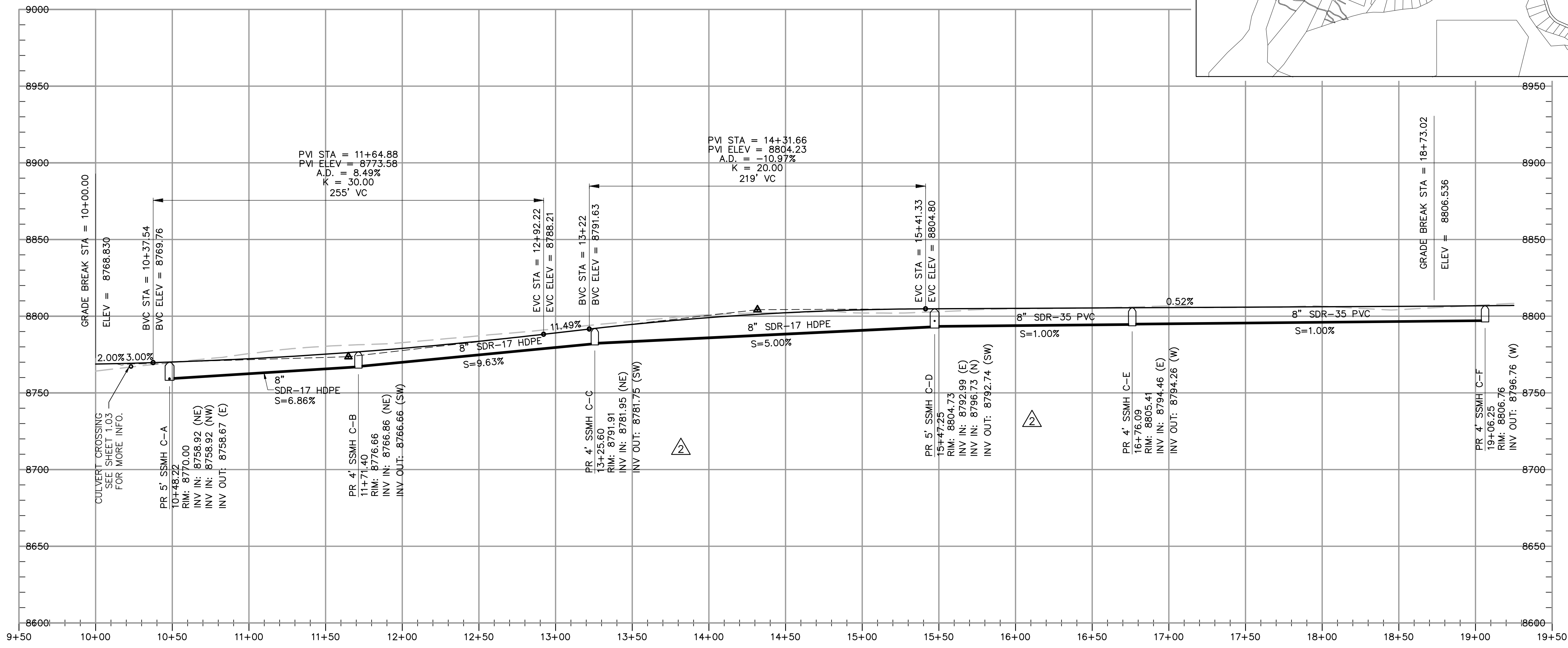
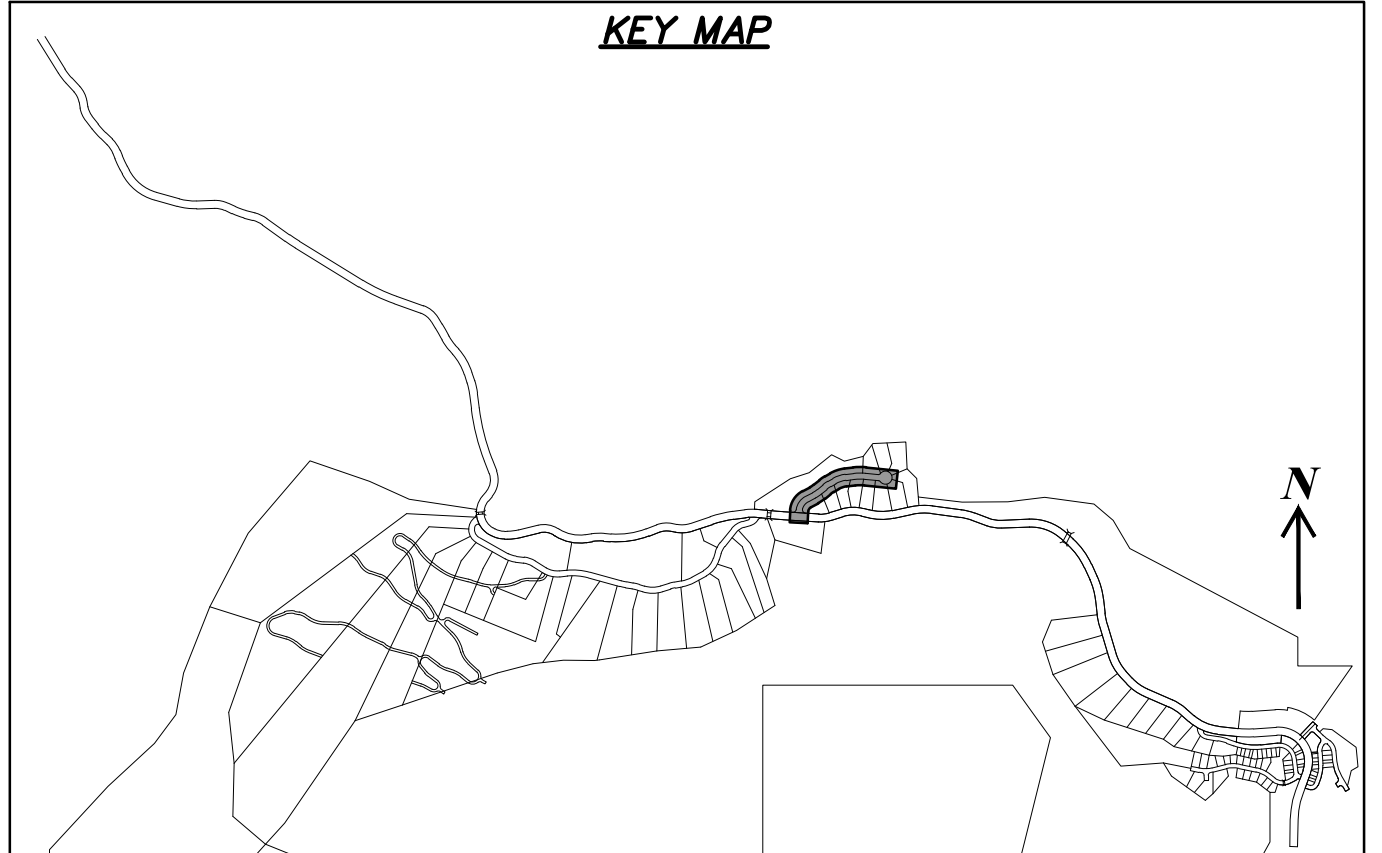
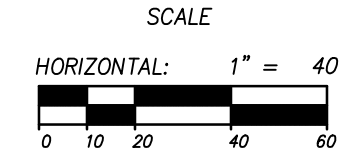


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BOWDEN  
 XREFS:



**HEARTWOOD DRIVE**  
 STA: 10+00.00 TO 19+25.00

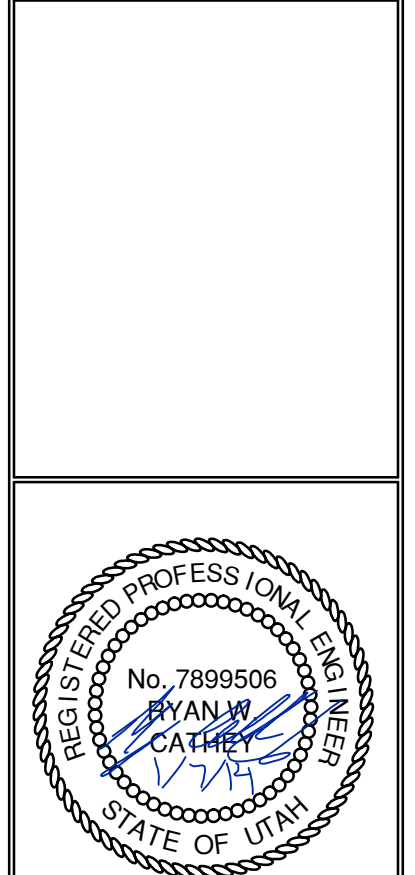


| NO. | BY  | DATE      | REVISIONS                          |
|-----|-----|-----------|------------------------------------|
| 1   | PMC | 8/27/2013 | ADDITION 1                         |
| 2   | PMC | 8/27/2013 | UTILITY, GRADING, AND PROPERTY REV |

**SUMMIT EDEN PHASE 1B**  
**PLAN AND PROFILE**  
**HEARTWOOD DRIVE**

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

**NV5**  
 BEYOND ENGINEERING  
 6217 SOUTH STATE STREET, SUITE 200  
 801743.0000 TEL. 801743.0000 FAX  
 MURRAY, UT 84107  
 WWW.NV5.COM



SHEET NUMBER  
**2.00**

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

JOB NUMBER  
**SLB079306**

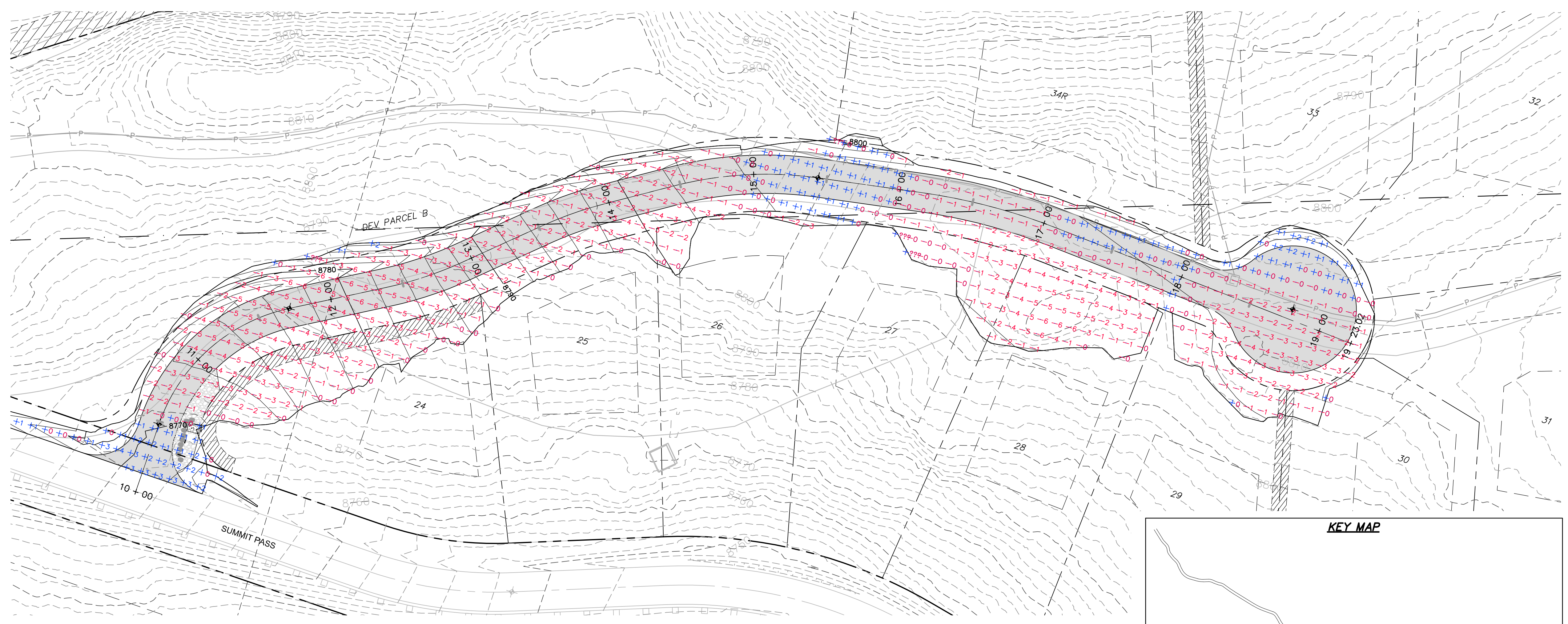
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. The engineer's liability is limited to the preparation of these plans.

CAUTION

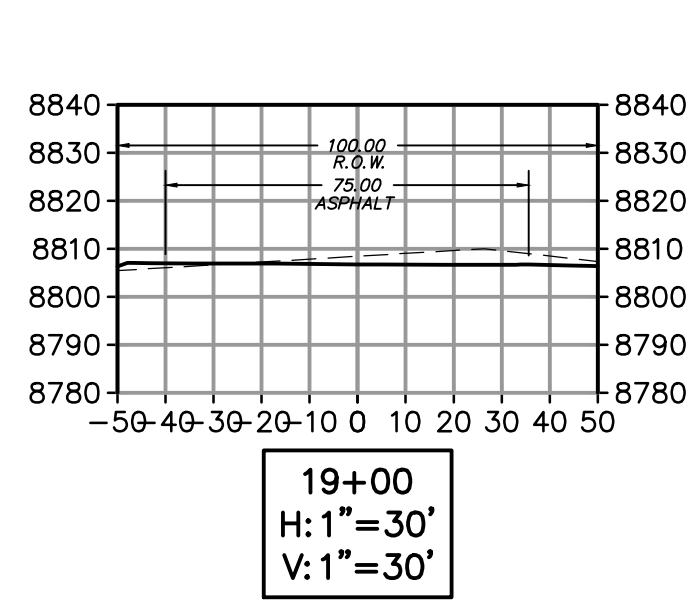
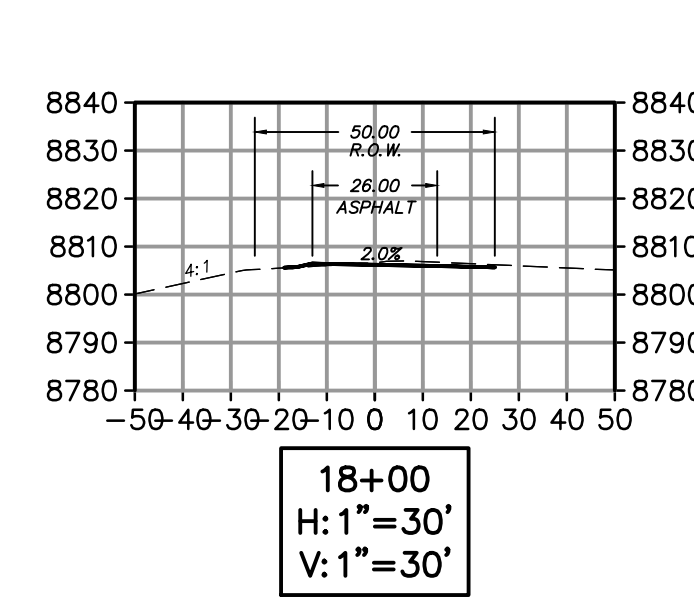
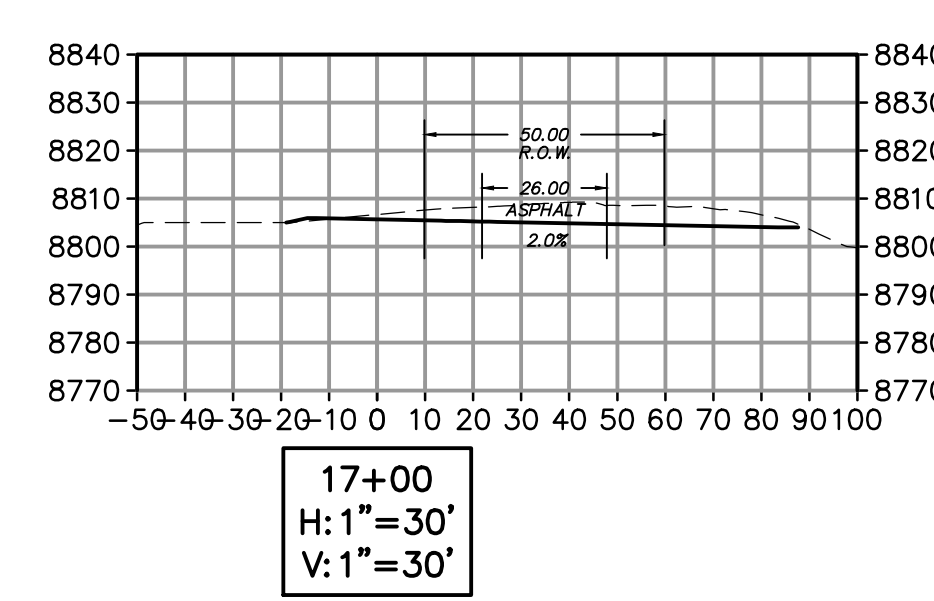
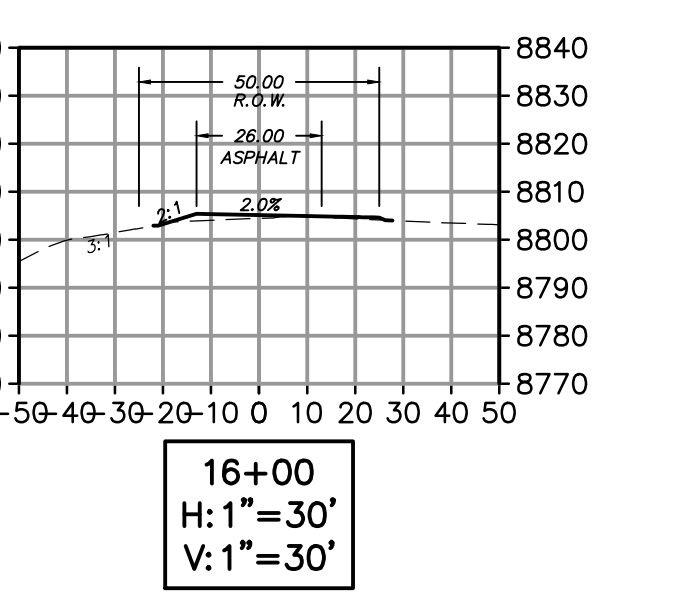
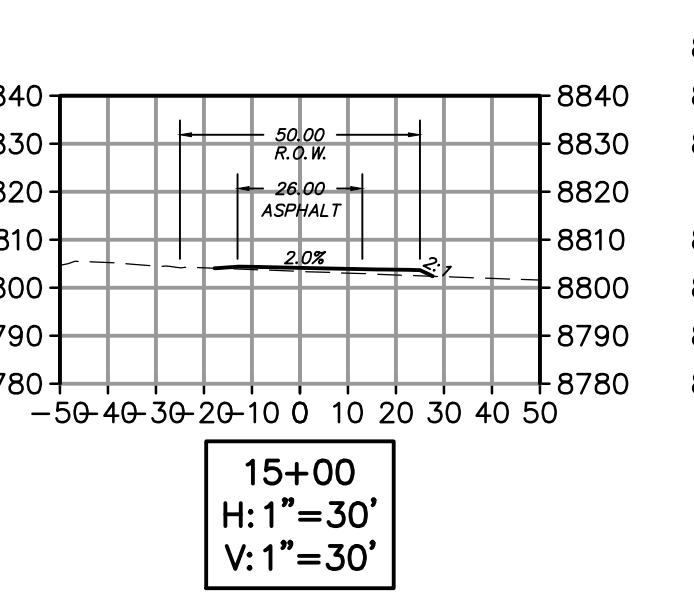
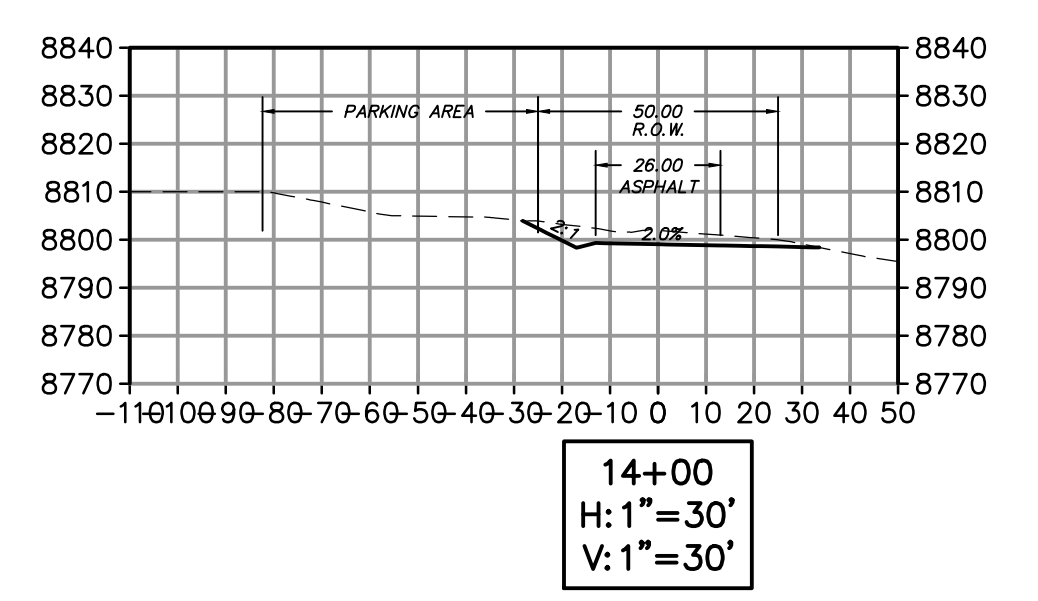
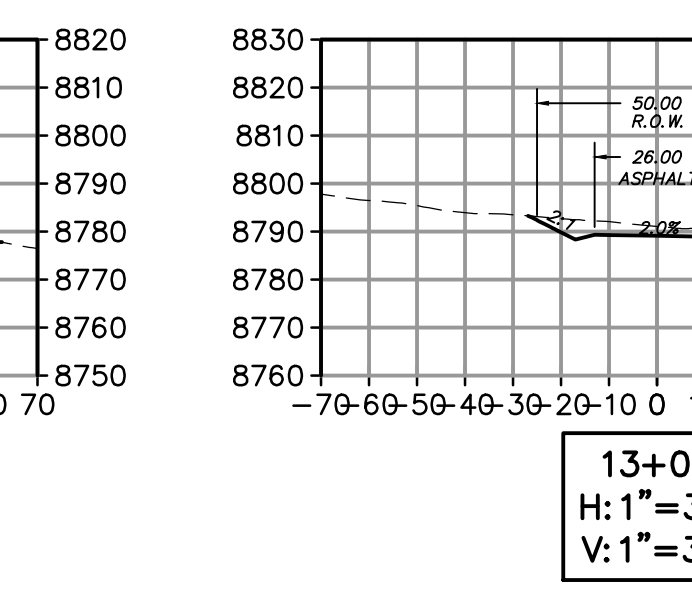
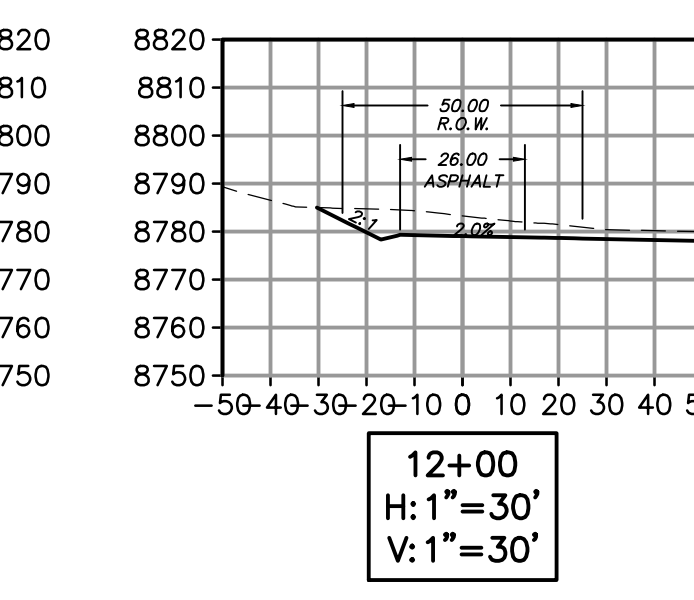
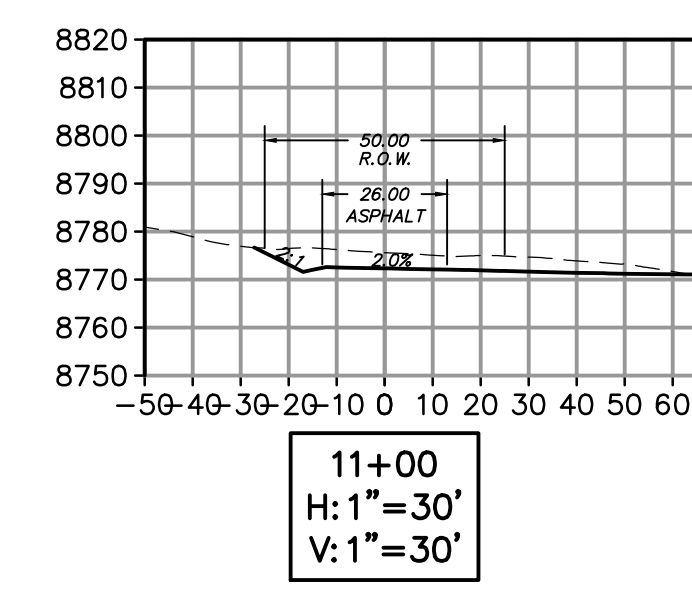
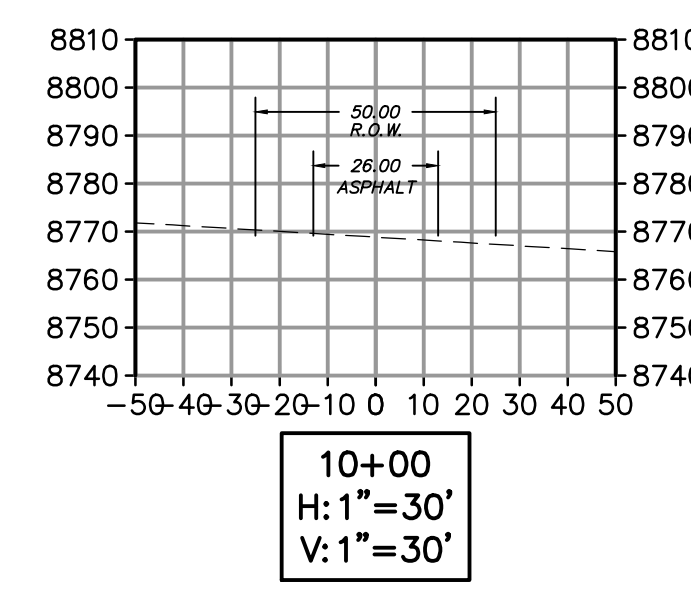
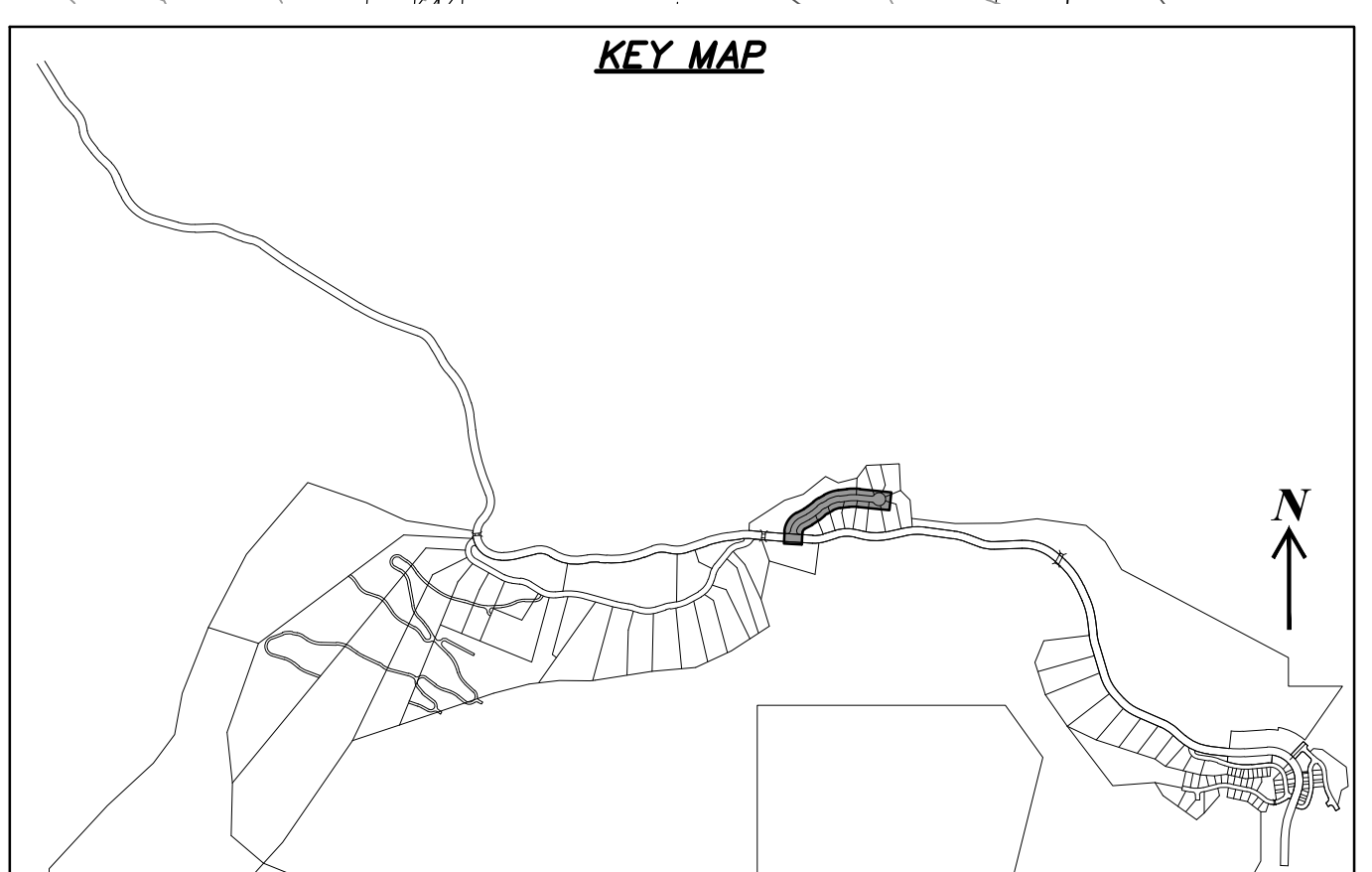
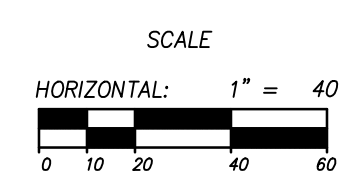


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BOWDEN  
 XREFS:



**HEARTWOOD DRIVE**  
 STA: 10+00.00 TO 19+25.00

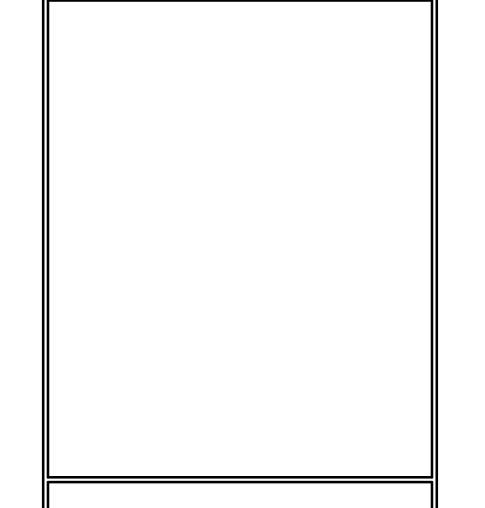


| NO. | BY  | DATE      | REVISIONS                          |
|-----|-----|-----------|------------------------------------|
| 1   | RMC | 8/27/2013 | ADDITION 1                         |
| 2   | RMC | 9/24/2013 | UTILITY, GRADING, AND ROCKETRY REV |

**SUMMIT EDEN PHASE 1B**  
**EARTHWORK AND SECTIONS**  
**HEARTWOOD DRIVE**

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  
**3.00**

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

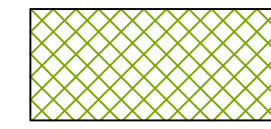
JOB NUMBER  
**SLB079306**



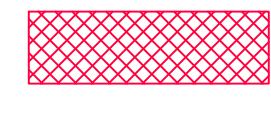
CAUTION  
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans, and must be approved by the preparer of these plans.



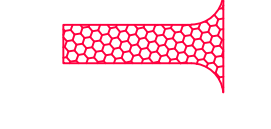
**LEGEND**



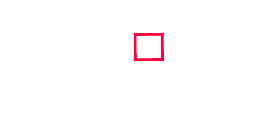
HATCHING INDICATES AREAS TO RECEIVE 4" TOPSOIL AND TO BE SEEDED FOR NATURAL VEGETATION. AREAS RECEIVING SEEDING FOR NATURAL REVEGETATION MUST BE COVERED WITH AN EROSION CONTROL BLANKET AFTER THE FINAL GRADING AND SEEDING ARE FINISHED. INSTALL NORTH AMERICAN GREEN SC-150 BLANKET OR APPROVED EQUAL. FOLLOW 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.



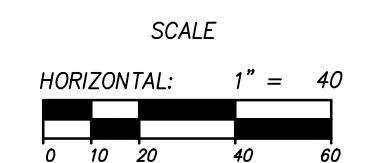
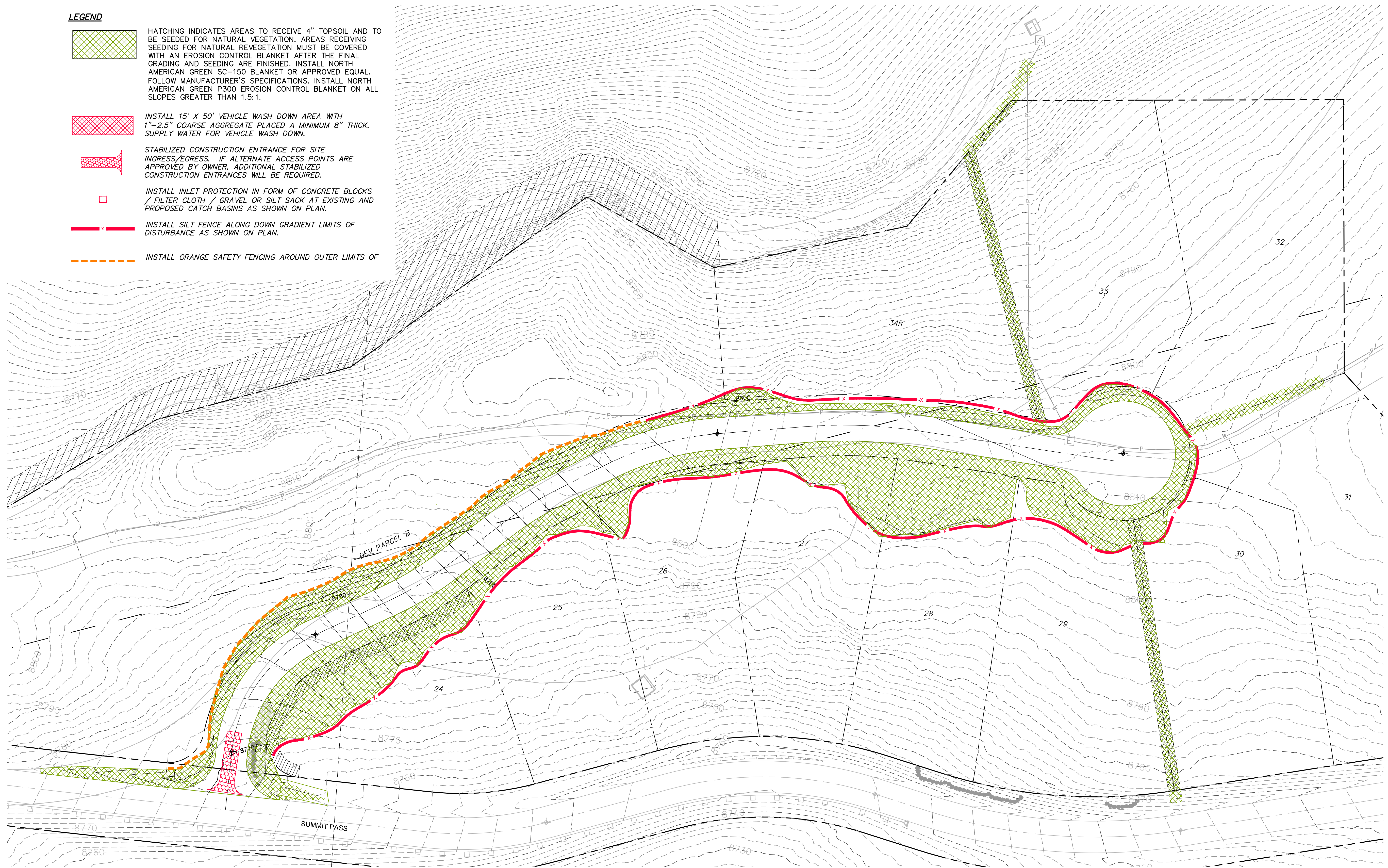
INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN.



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



INSTALL ORANGE SAFETY FENCING AROUND OUTER LIMITS OF

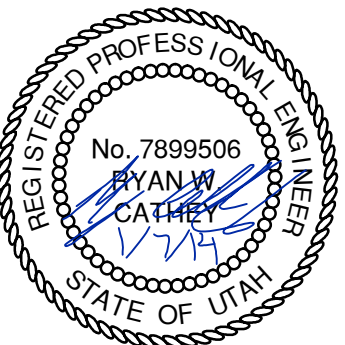


**SUMMIT EDEN PHASE 1B**  
**EROSION CONTROL PLAN**  
**HEARTWOOD DRIVE**

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



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'

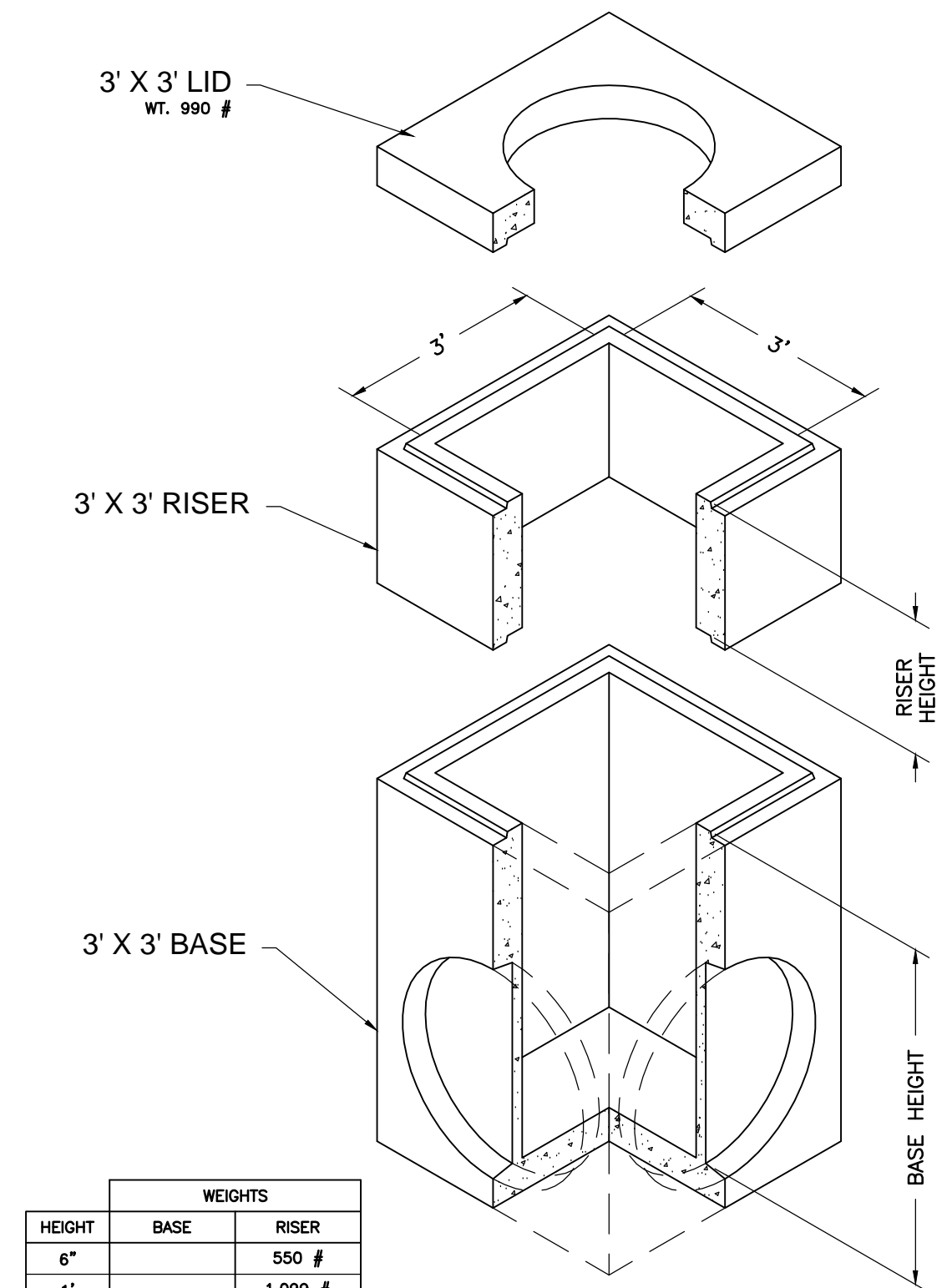
JOB NUMBER  
**SLB079306**

| 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.

CALTON

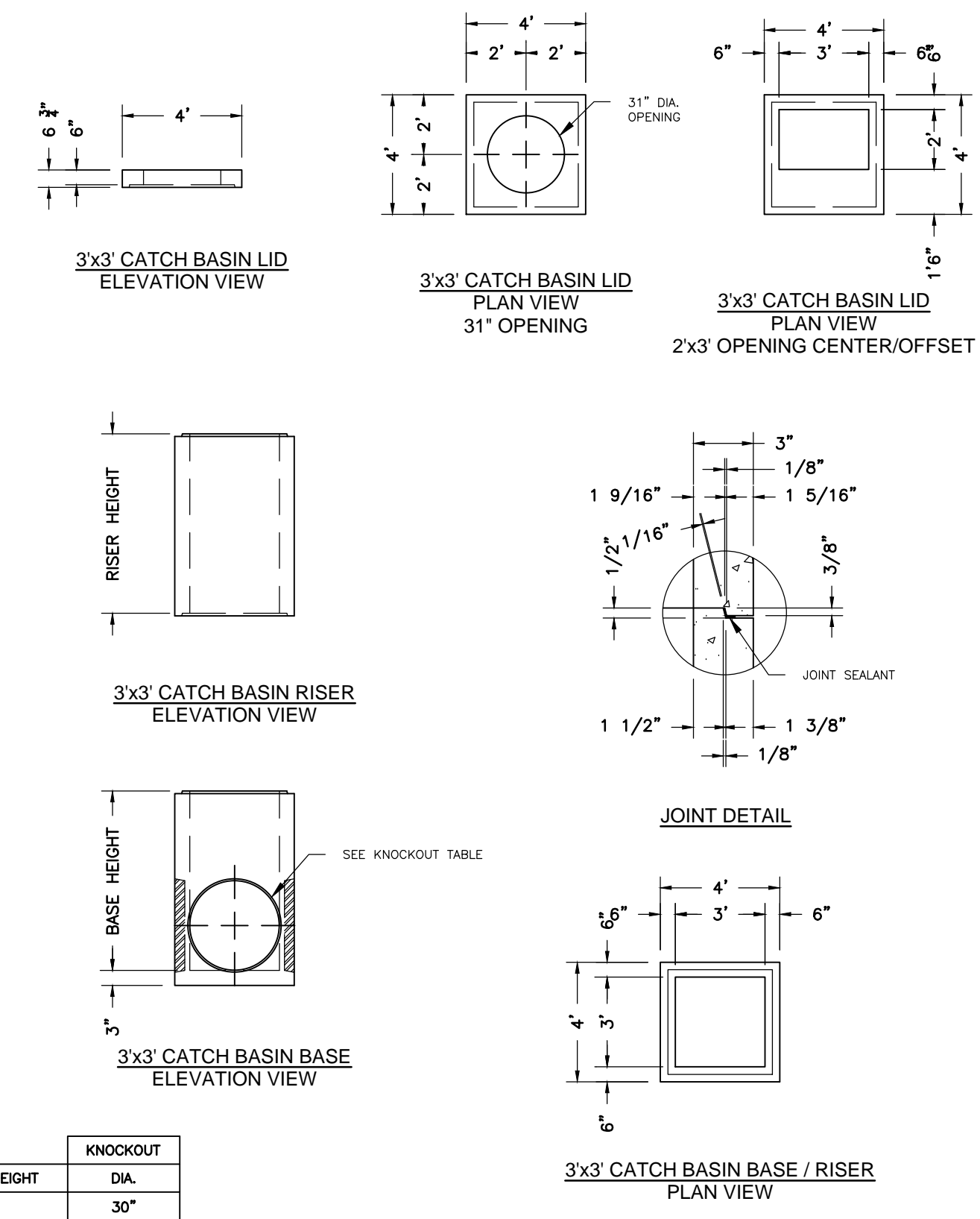




| HEIGHT | WEIGHTS |         |
|--------|---------|---------|
|        | BASE    | RISER   |
| 6"     |         | 550 #   |
| 1'     |         | 1,099 # |
| 2'     |         | 2,198 # |
| 3'     | 3,171 # | 3,297 # |
| 4'     | 4,796 # | 4,207 # |
| 5'     | 5,896 # | 5,259 # |
| 6'     | 6,994 # | 7,894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

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.

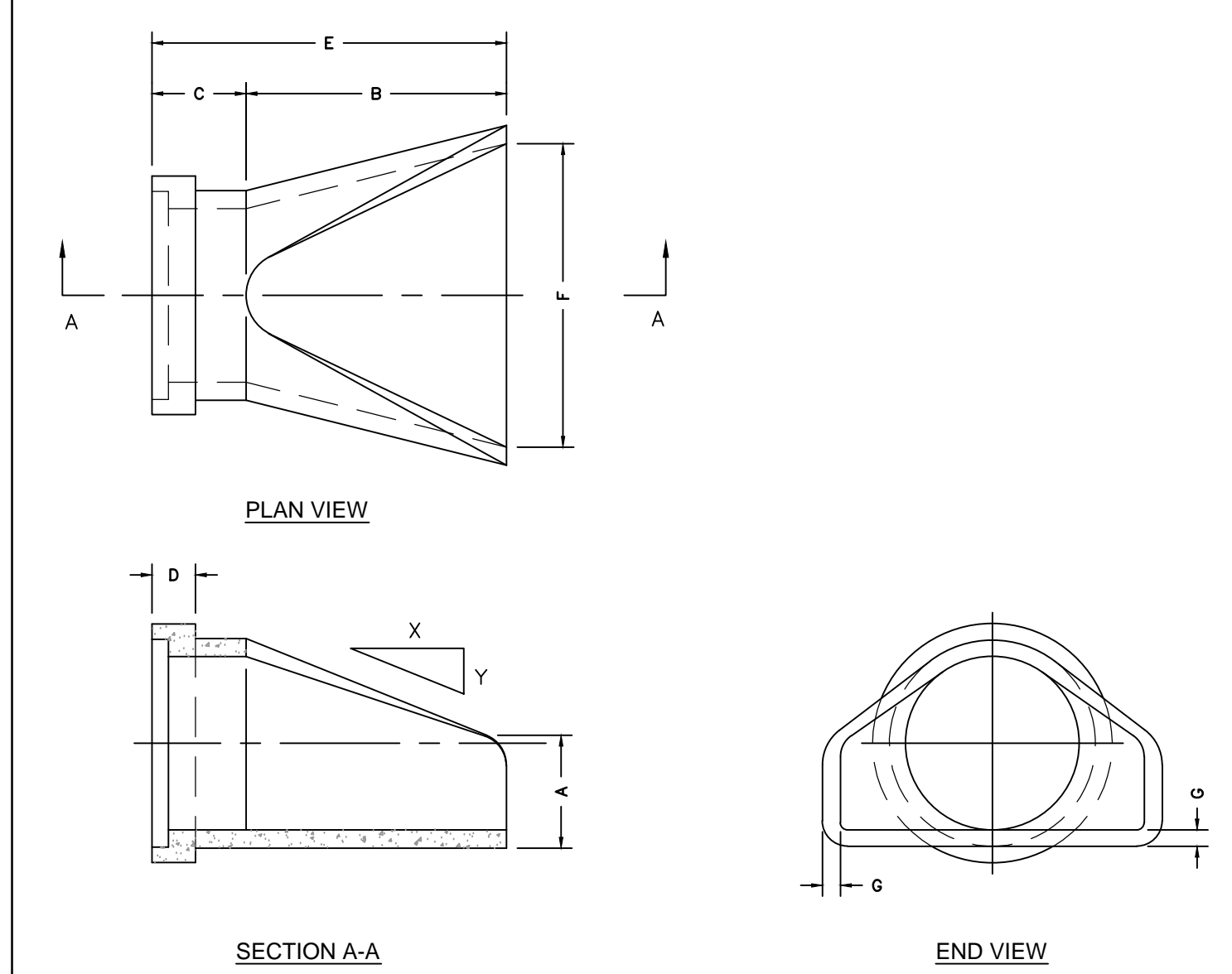
|   |  |  |
|---|--|--|
| <p>801 West 12th Street, Ogden, Utah 84404<br/>         Phone: 801-399-1171 Fax: 801-392-7849</p> | <b>3' x 3' Basin</b><br>FILE NAME: 2100C3X3CB000<br>ISSUE DATE: 1/08<br>www.oldcastleprecast.com | <b>3' x 3' Catch Basin Bases, Risers and lid</b><br>Copyright © 2008 |
|---|--|--|



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

KNOCKOUTS ARE 4" DEEP

|   |  |  |
|---|--|--|
| <p>801 West 12th Street, Ogden, Utah 84404<br/>         Phone: 801-399-1171 Fax: 801-392-7849</p> | <b>3' x 3' Basin</b><br>FILE NAME: 2100C3X3CB000<br>ISSUE DATE: 1/08<br>www.oldcastleprecast.com | <b>3' x 3' Catch Basin Bases, risers and lid</b><br>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"     |

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

| NO. | BY  | DATE      | REVISIONS                         |
|-----|-----|-----------|-----------------------------------|
| 1   | RMC | 8/27/2013 | ADDITION 1                        |
| 2   | RMC | 9/24/2013 | UTILITY, GRADING, AND ROCKERY REV |

SUMMIT EDEN PHASE 1B  
 STORM DRAIN DETAILS  
 PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC  
 DATE SUBMITTED: 01/07/2014

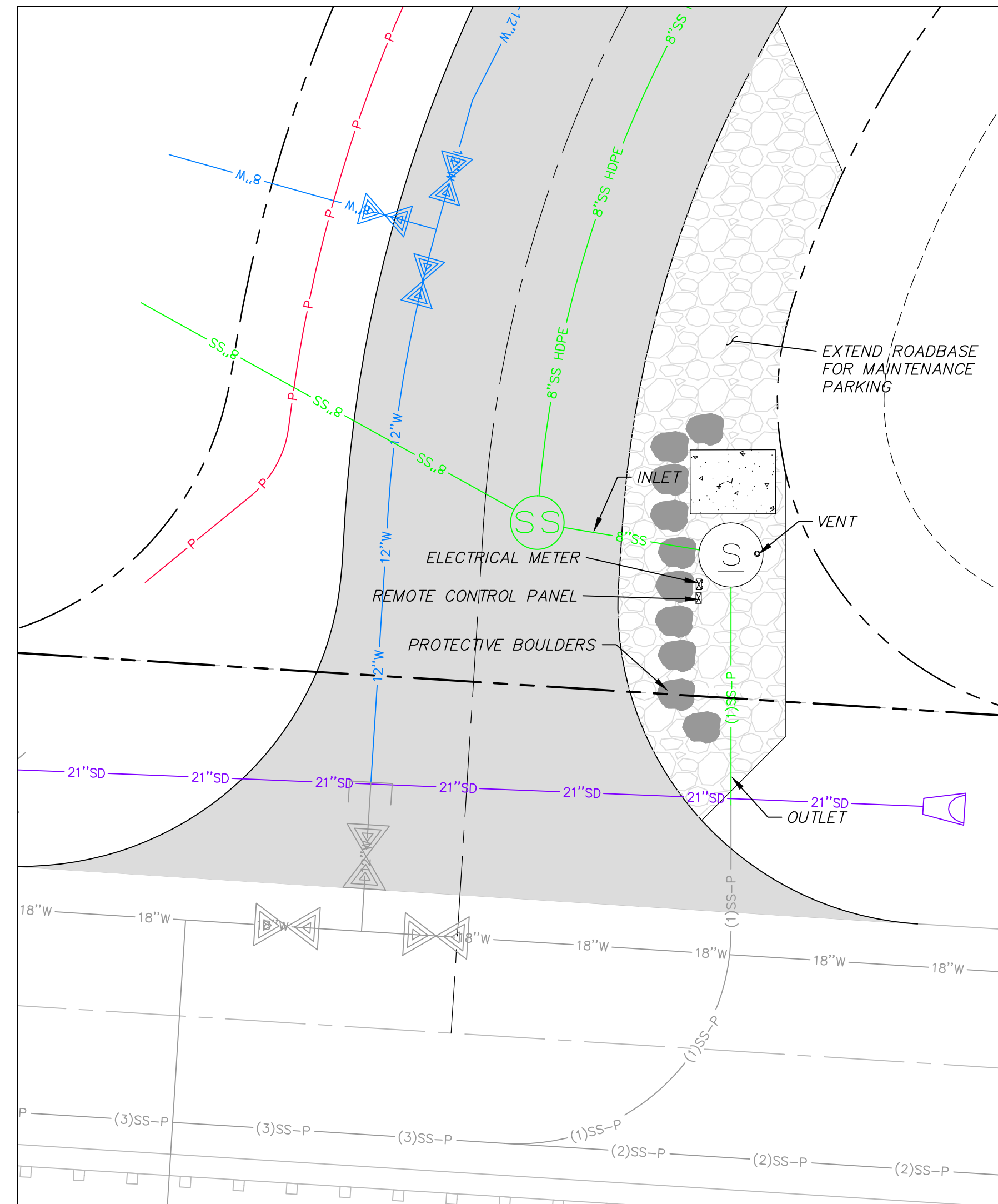
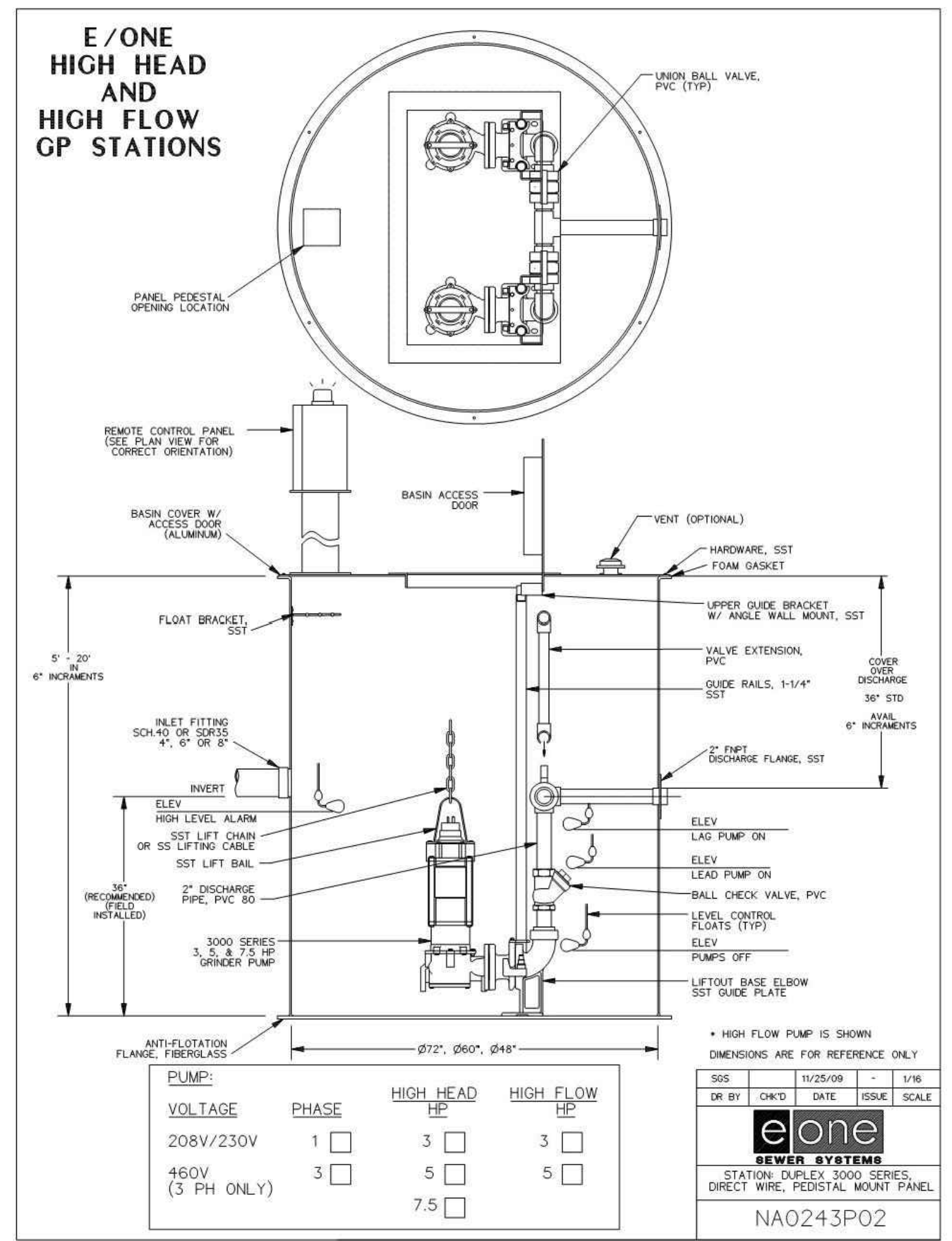
BEYOND ENGINEERING  
 5217 SOUTH STATE STREET, SUITE 200  
 801743.0000 TEL 801743.0000 FAX  
 MURRAY, UT 84107  
 WWW.NVI5.COM

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

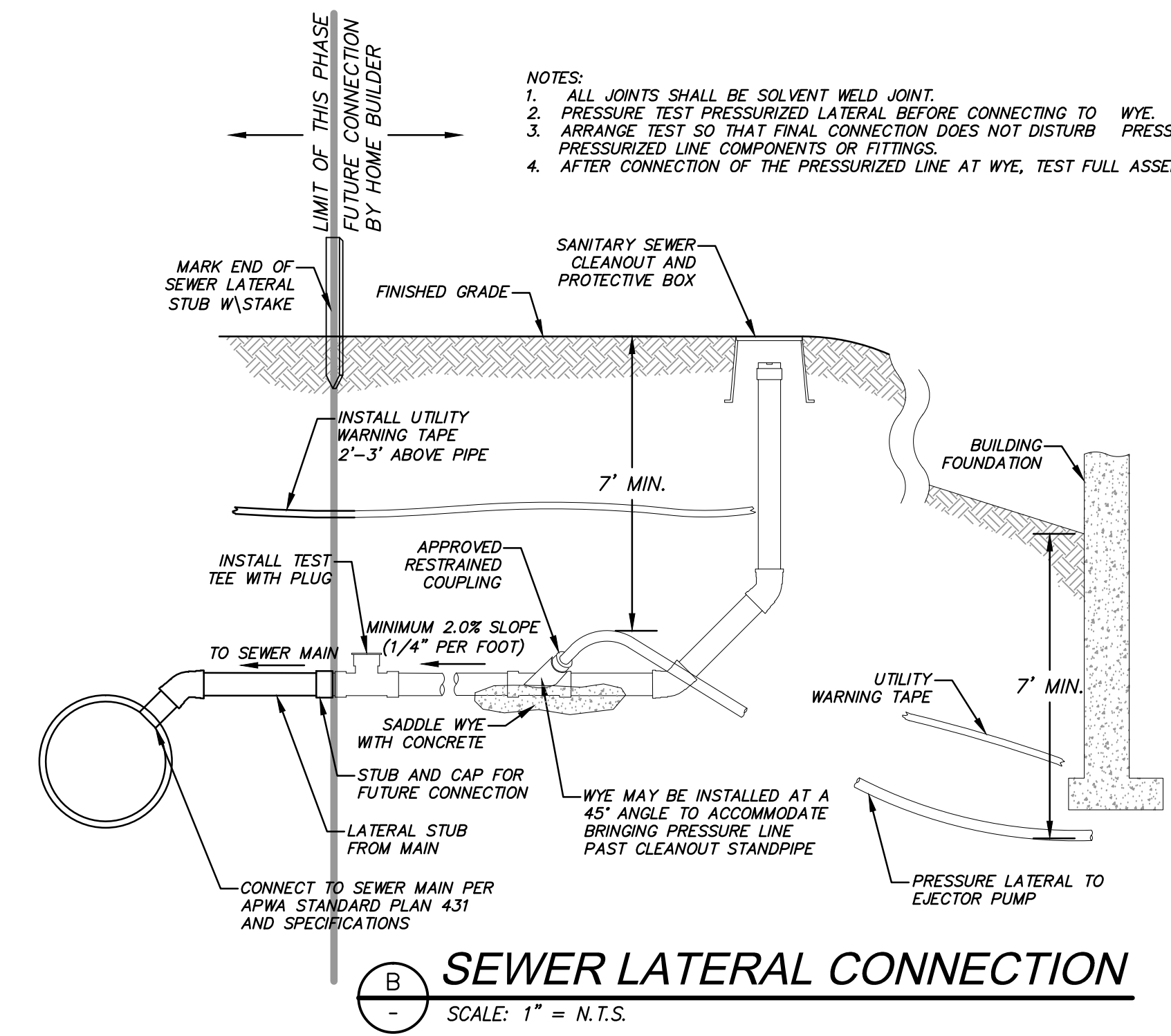
SHEET NUMBER  
**5.00**  
 SCALE  
 VERTICAL: 1" = N/A  
 HORIZONTAL: 1" = N/A  
 JOB NUMBER  
**SLB079306**







GRINDER STATION SITE PLAN



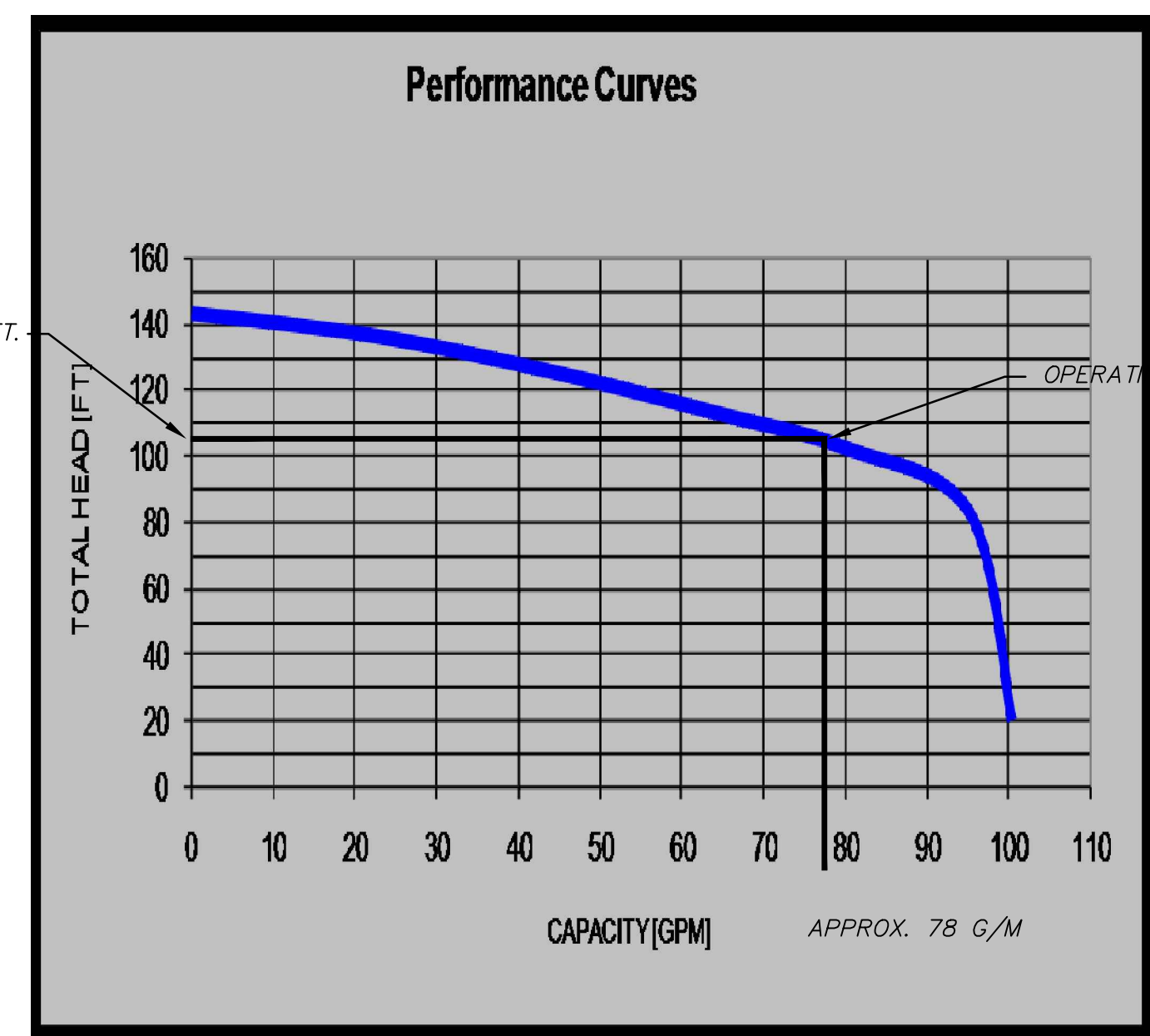
SEWER LATERAL CONNECTION  
 SCALE: 1" = N.T.S.

| 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       | 3"            | 3.66               | 1050                     | DUPLEX 3000 SERIES | SUBMERSIBLE GRINDER PUMP E-ONE 3H51 | 78              | CELLULAR    | MANUAL                     | 1 PHASE/240 VOLT |

LEGEND

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

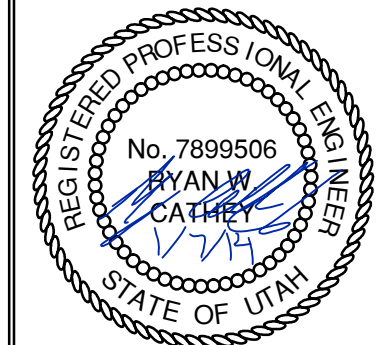
| Grinder Station Calculations       |  |
|------------------------------------|--|
| GR-5                               |  |
| Head Difference                    | 8754.34-8848.06=93.72 ft.  |
| Pipe Length                        | 1210 ft.   |
| Friction Loss                      | 10.81 ft.  |
| Flow 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 = 78 g/m  |



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

SUMMIT EDEN PHASE 1B  
 GRINDER PUMP VAULT  
 SEWER DETAILS

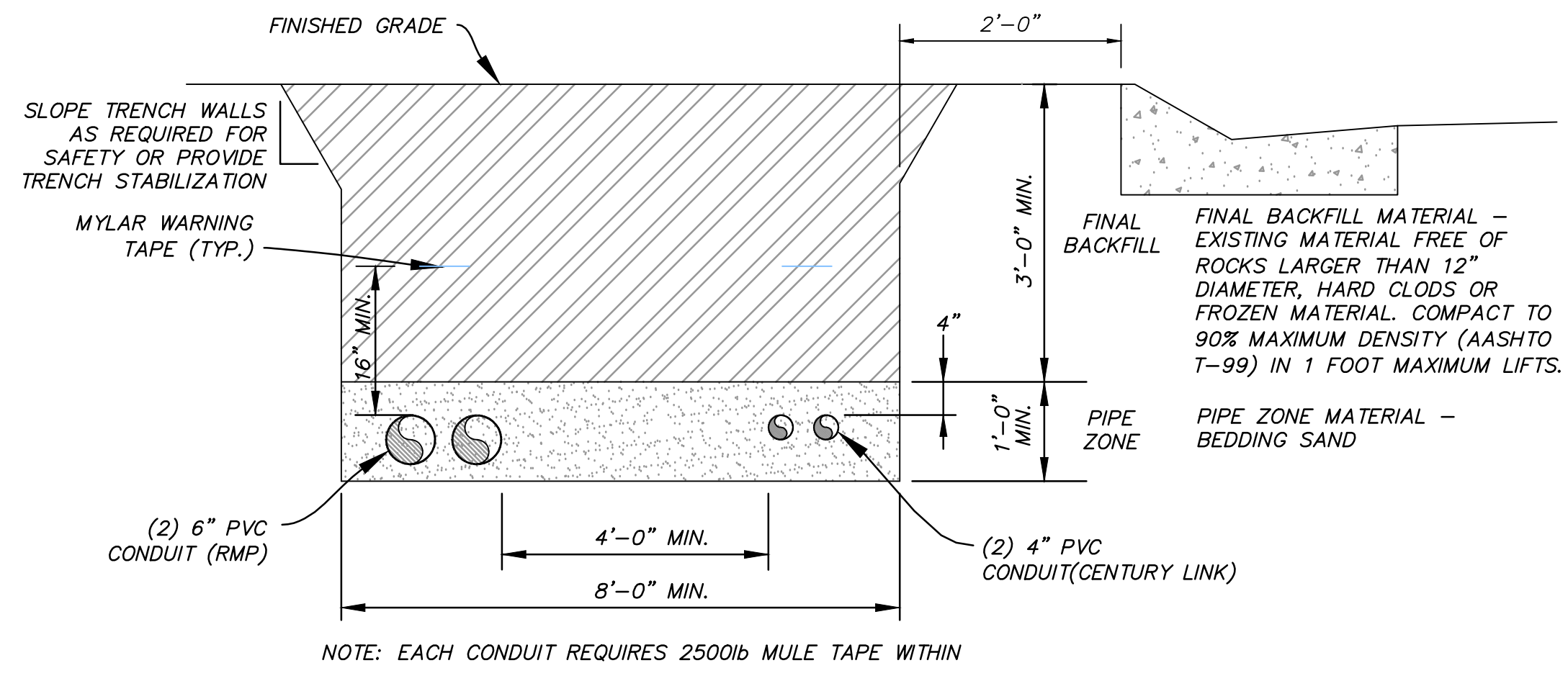
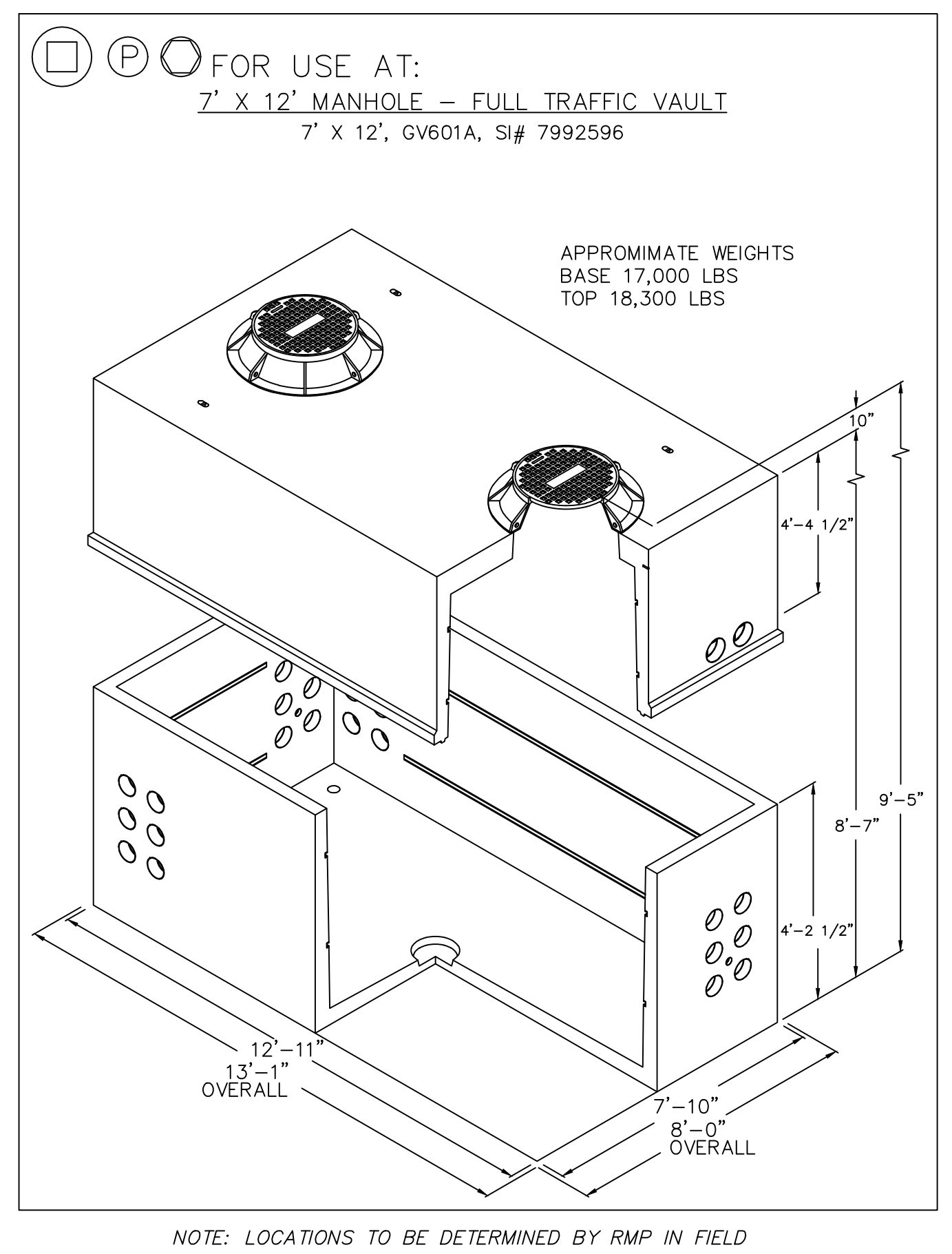
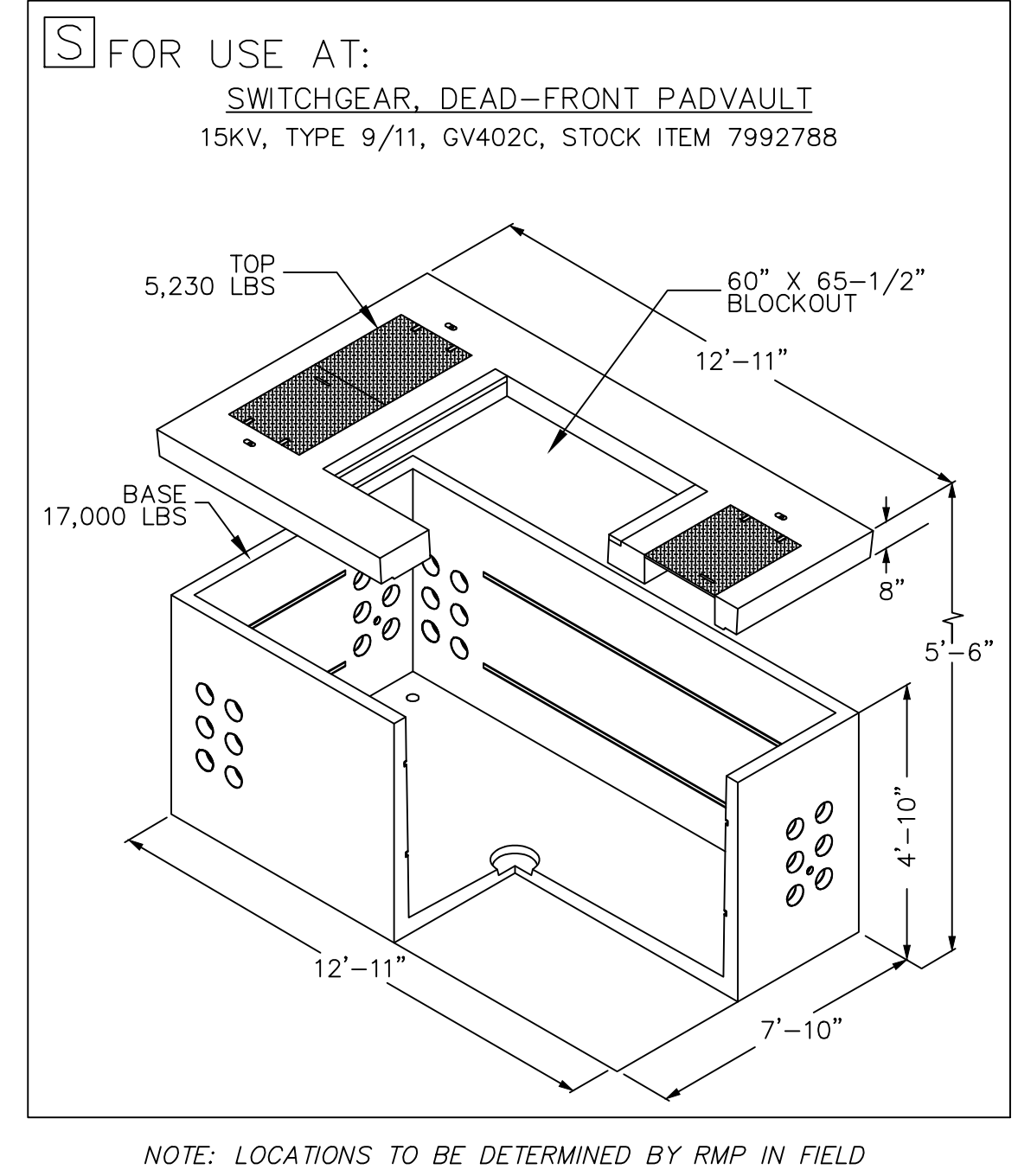
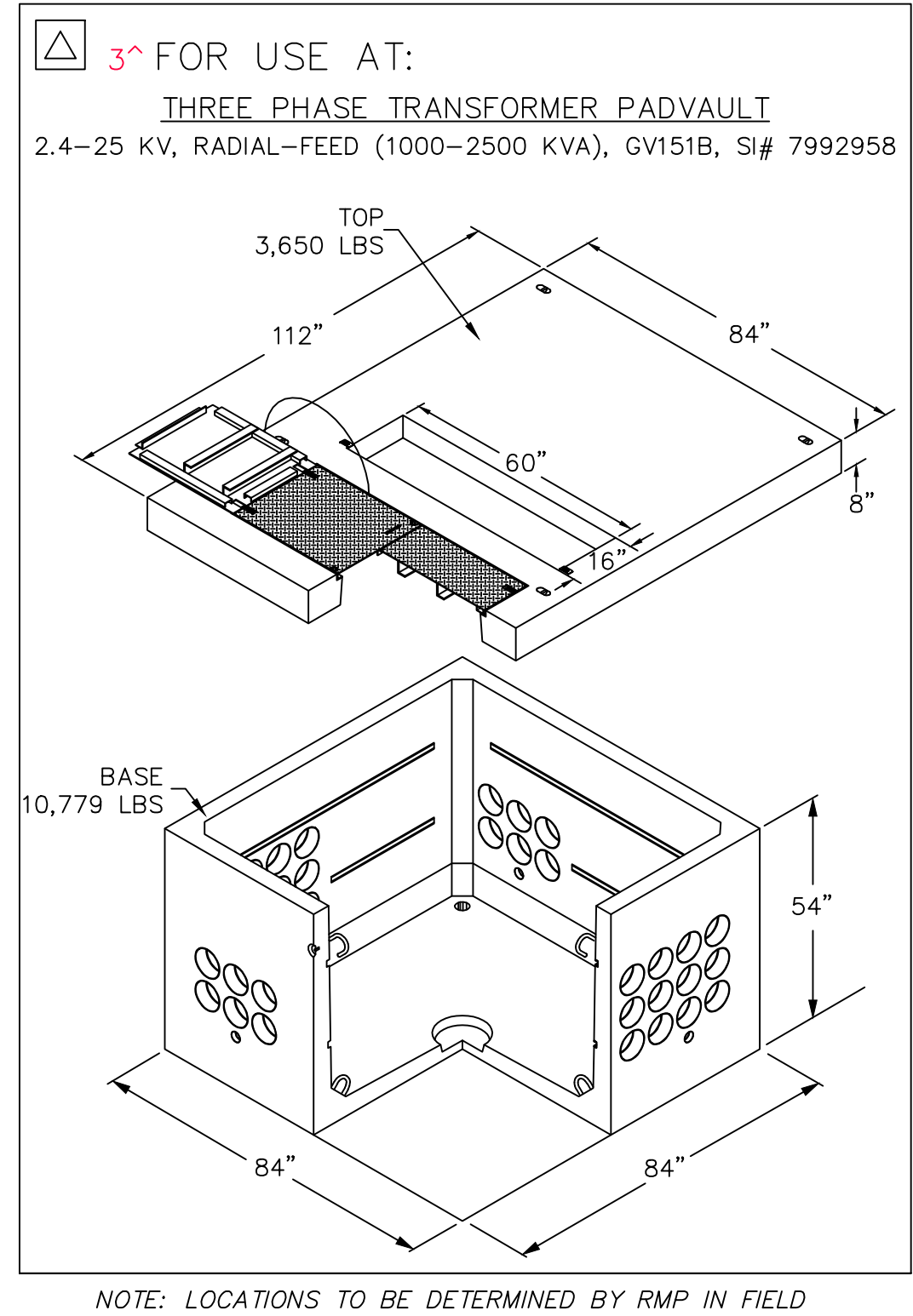
DATE SUBMITTED: 01/07/2014  
 PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC



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 ROCKETRY REV |

**SUMMIT EDEN PHASE 1B**  
**ELECTRICAL DETAILS**

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

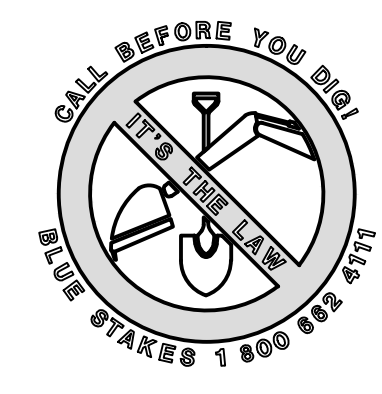
**NV5**  
 BEYOND ENGINEERING  
 5217 SOUTH STATE STREET, SUITE 200  
 801743.0000 TEL. 801743.0000 FAX  
 MURRAY, UT 84107  
 WWW.NV5.COM

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

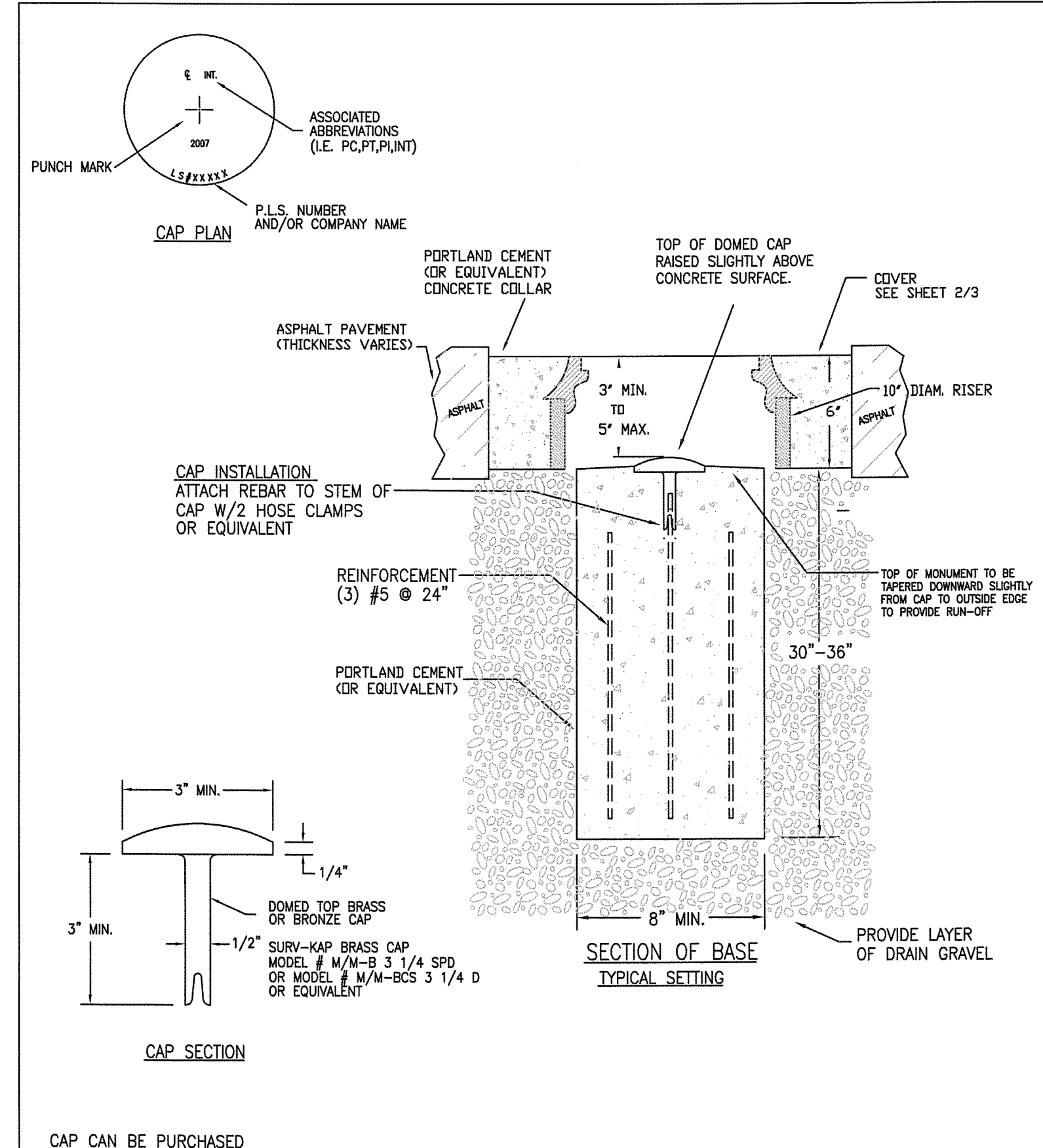
SHEET NUMBER  
**5.20**

SCALE  
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 HORIZONTAL: 1" = N/A

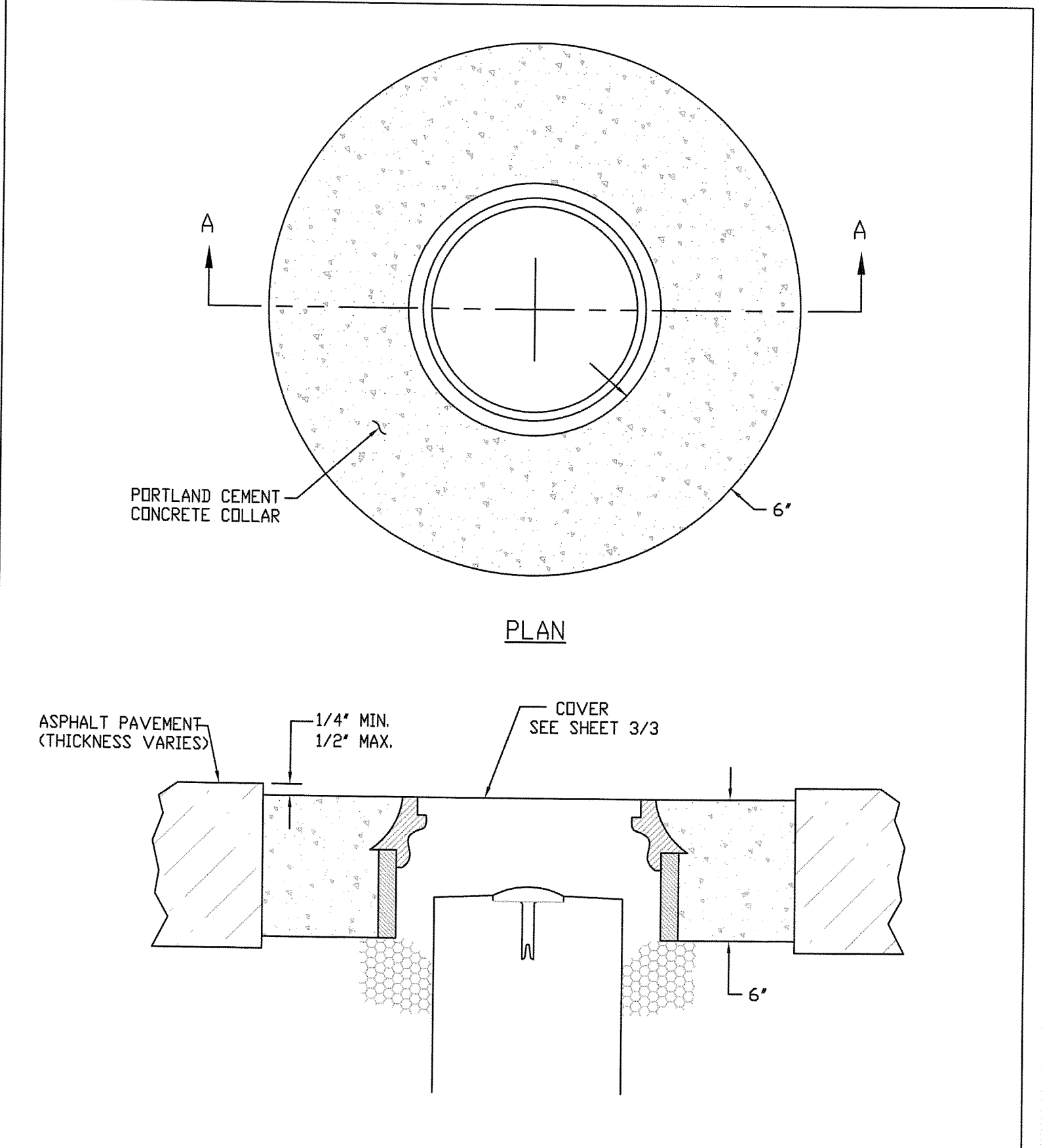
JOB NUMBER  
**SLB079306**



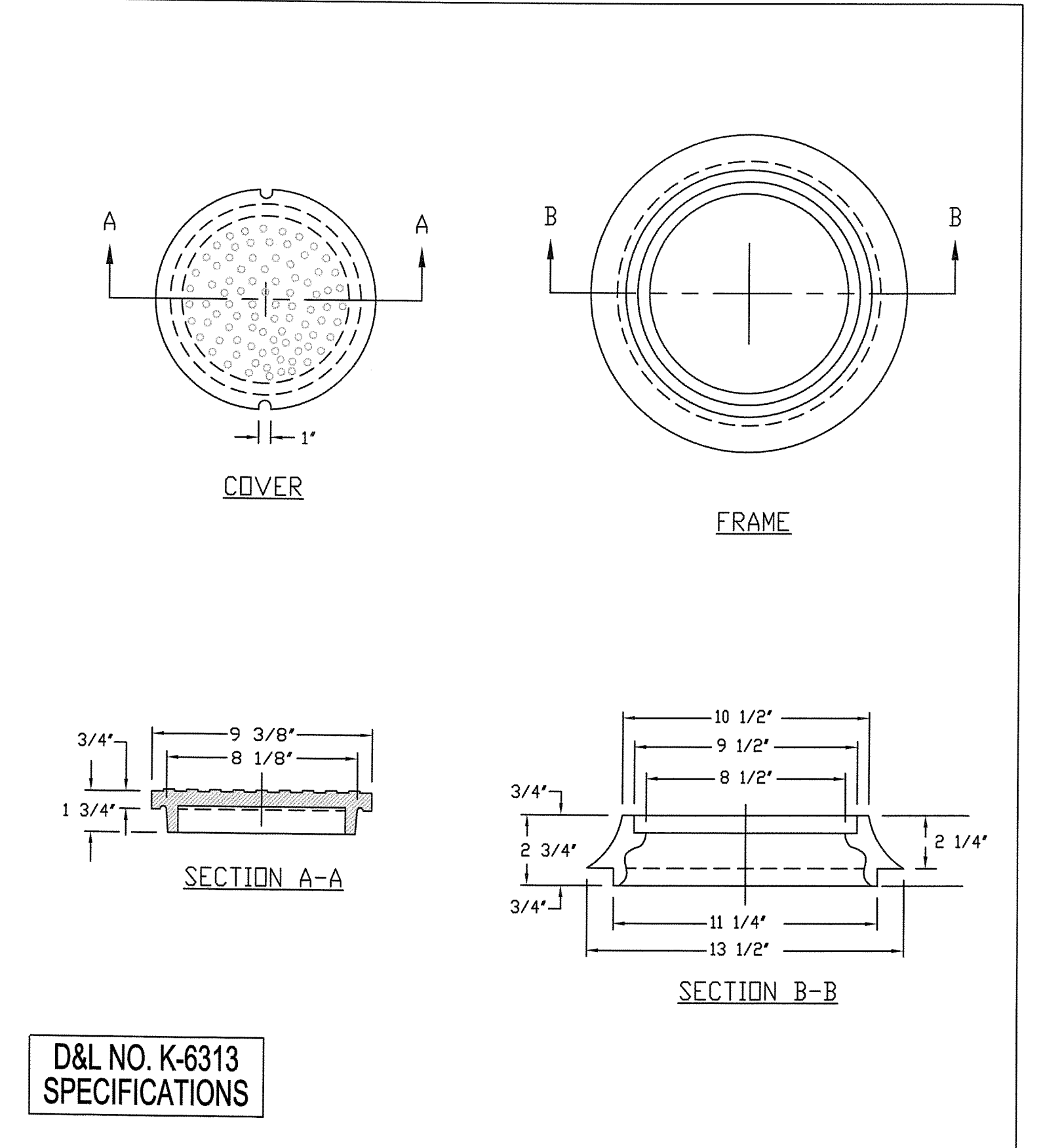




|                               |                               |                      |
|-------------------------------|-------------------------------|----------------------|
| WEBER COUNTY<br>SURVEY OFFICE | RING & LID<br>SURVEY MONUMENT | STANDARD PLANS       |
|                               |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



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



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

D&L NO. K-6313  
SPECIFICATIONS

| NO. | BY  | DATE      | REVISIONS                          |
|-----|-----|-----------|------------------------------------|
| 1   | RHC | 8/27/2013 | ADDITION 1                         |
| 2   | RHC | 8/27/2013 | UTILITY, GRADING, AND SOCIETY 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.

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

**NV5**  
BEYOND ENGINEERING

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MURRAY, UT 84107  
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REGISTERED PROFESSIONAL ENGINEER  
No. 7899506  
RYAN W. CATHEY  
STATE OF UTAH

SHEET NUMBER  
**5.30**

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

JOB NUMBER  
**SLB079306**

