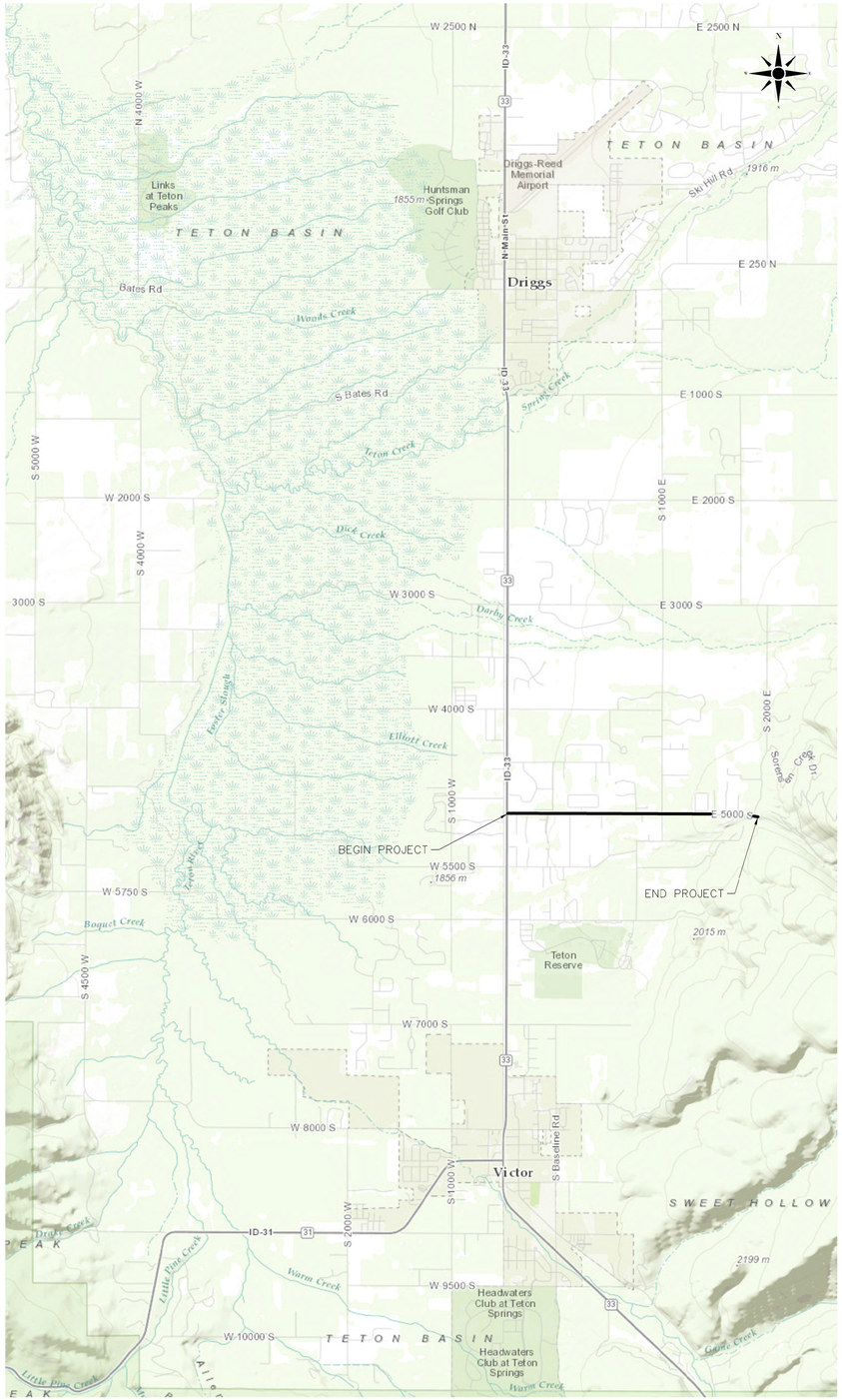
EAST 5000 SOUTH RECONSTRUCTION

FROM HIGHWAY 33 TO 2000 EAST



VICINITY MAP
NOT TO SCALE

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TETON COUNTY
150 Courthouse Drive
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208-354-0245

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55 SOUTH 5TH EAST
DRIGGS, ID 83422
307-413-6373 info@arrowleafengineering.com

PROFESSIONAL ENGINEER REGISTERED 13031 5-20-15 STATE OF IDAHO DARRYL W. JOHNSON

LEGEND

- (E) MAJOR CONTOUR
- (E) MINOR CONTOUR
- (E) CONTOUR LABEL (6280)
- (P) MAJOR CONTOUR
- (P) MINOR CONTOUR
- (P) CONTOUR LABEL (6280)
- (E) GIS PARCEL BOUNDARY
- (P) CENTERLINE
- (P) SAWCUT
- (P) EDGE OF ROADWAY
- (E) EDGE OF GRAVEL
- (E) CULVERT
- (P) CULVERT
- (E) FENCE
- (P) DAYLIGHT / LIMITS OF DISTURBANCE
- (E) SWALE/ DITCH CL
- (E) UNDERGROUND IRRIGATION LINE (W)
- (E) UNDERGROUND POWER LINE (UGE)
- (E) OVERHEAD POWER LINE (OHE)
- (E) UNDERGROUND COMMUNICATIONS LINE (UGT)
- (E) SURVEY MONUMENT
- (E) FIRE HYDRANT
- (E) POWER POLE
- (E) MAILBOX
- (E) TELEPHONE PEDESTAL (T)
- (E) ELECTRIC PEDESTAL (E)
- (P) POINT OF VERTICAL INTERSECTION

SYMBOLS & ABBREVIATIONS

&	AND
@	AT
℄	CENTERLINE
°	DEGREE
ø	DIAMETER
"	INCHES
'	FEET
#	NUMBER
AC	ACRES
APPROX	APPROXIMATE
ATD	AVERAGE DAILY TRAFFIC
AVE	AVENUE
AVG	AVERAGE
AZ	AZIMUTH
BC	BRASS CAP
BIT	BITUMINOUS
BLDG	BUILDING
BM	BENCH MARK
BNDRY	BOUNDARY
C	CUT
CADD	COMPUTER AIDED DRAFTING AND DESIGN
CALC	CALCULATE
CF	CUBIC FEET
CIP	CAST IRON PIPE
CL	CENTERLINE
CMES	CORRUGATED METAL END SECTION
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
COR	CORNER
CORR	CORRECTED
CP	CONTROL POINT
CY	CUBIC YARD
DET	DETAIL
DIA	DIAMETER
DIR	DIRECTION
DIST	DISTANCE
DR	DRIVE
DTR	DETOUR
DWG	DRAWING
DWP	DETECTABLE WARNING PANEL
E	EAST
E	EXISTING
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATION
ENGR	ENGINEER
EOG	EDGE OF GRAVEL
EOP	EDGE OF PAVEMENT
EQ	EQUATION
ES	END SECTION
ESMT	EASEMENT
EX	EXISTING
EXC	EXCAVATION
F	FILL
F	FAHRENHEIT
FED	FEDERAL
FH	FIRE HYDRANT
FL	FLOW LINE
FM	FORCE MAIN
FN	FENCE
FO	FIBER OPTIC
FOS	FACTOR OF SAFETY
FT	FEET
GAL	GALLON
GIS	GEOGRAPHICAL INFORMATION SYSTEM
GOV	GOVERNMENT
H	HORIZONTAL
HOR	HORIZONTAL
HR	HOUR
HWY	HIGHWAY
ID	INSIDE DIAMETER
IN	INCHES
INV	INVERT
ISPWC	IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION
ITD	IDAHO TRANSPORTATION DEPARTMENT
LAT	LATITUDE
LF	LINEAR FEET
LL	LIQUID LIMIT
LONG	LONGITUDE
LS	LUMP SUM
MAX	MAXIMUM
MI	MILE
MIN	MINIMUM
MON	MONUMENT
MP	MILE POST
N	NORTH
NE	NORTHEAST
NGS	NATIONAL GEODETIC SURVEY
NO	NUMBER
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
NW	NORTHWEST
OC	ON CENTER
OD	OUTER DIAMETER
OH	OVERHEAD
P	PROPOSED
P&P	PLAN AND PROFILE
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PROFESSIONAL ENGINEER
PED	PEDESTRIAN
PG	PAGE
PI	POINT OF INTERSECTION
PL	PLASTIC LIMIT
PLS	PROFESSIONAL LAND SURVEOR
PLSS	PUBLIC LAND SURVEY SYSTEM
PNTD	PAINTED
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PRO	PROPOSED
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
QTY	QUANTITY
R	RANGE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
RD	ROAD
REF	REFERENCE
RR	RAILROAD
S	SOUTH
SAN	SANITARY SEWER LINE
SE	SOUTHEAST
SEC	SECTION
SF	SQUARE FEET
SS	SANITARY SEWER LINE
STA	STATION
STD	STANDARD
SW	SIDEWALK
SW	SOUTHWEST
SY	SQUARE YARD
T	TOWNSHIP
TYP	TYPICAL
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UGT	UNDERGROUND TELEPHONE
UT	UTILITY
V	VERTICAL
VERT	VERTICAL
W	WEST
WAT	WATER LINE
WC	WITNESS CORNER
XING	CROSSING
XRD	CROSSROAD
XSEC	CROSS SECTION
Z	ZENITH

GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF THE "HIGHWAY & STREET GUIDELINES FOR DESIGN AND CONSTRUCTION IN TETON COUNTY, IDAHO" (INCLUDED BY REFERENCE) AND THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC; INCLUDED BY REFERENCE), UNLESS OTHERWISE SPECIFIED.
2. ALL REPRESENTATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO DIGGING.
3. LIMITED SURVEY DATA WAS COLLECTED FOR THIS PROJECT. TOPOGRAPHY AND CONTOURS ARE BASED ON 1 METER LIDAR DATA AND ARE APPROXIMATE. LOCATIONS OF MAILBOXES, UTILITIES, AND UTILITY PEDESTALS WERE NOTED AND MEASURED BY COUNTY STAFF AND ARE INCLUDED FOR ILLUSTRATIVE PURPOSES ONLY.
4. ALL SURVEY MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE RE-ESTABLISHED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF IDAHO. PUBLIC LAND SURVEY SYSTEM MONUMENTS DISTURBED AS A RESULT OF THIS PROJECT SHALL BE RE-ESTABLISHED PER PLSS MONUMENT RE-ESTABLISHMENT DETAIL.
5. CONTRACTOR TO OBTAIN NPDES AND ALL OTHER REQUIRED PERMITS.
6. ROAD TO REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION.
7. CONTRACTOR TO SUBMIT TRAFFIC CONTROL PLAN.
8. CONTRACTOR IS RESPONSIBLE FOR PROPER REMOVAL AND DISPOSAL OF EXCESS ROADWAY EXCAVATION MATERIAL.
   - 8.1. ROADWAY EXCAVATION ASPHALT MATERIAL REMOVED WILL BE ACCEPTED AT TETON COUNTY TRANSFER STATION (1088 CEMETERY ROAD).
   - 8.2. EXCESS ROADWAY EXCAVATION MATERIAL FREE OF OILS, DEBRIS, AND ORGANICS MAY BE ACCEPTED AT THE TETON COUNTY TRANSFER STATION AND PLACED IN A LOCATION SEPARATE FROM THE ASPHALT MATERIAL AS INSTRUCTED BY ENGINEER.
8. PIT RUN MATERIAL FOR THE PROJECT WILL BE PROVIDED BY TETON COUNTY. MATERIAL IS AVAILABLE FOR PICK-UP AT THE DRIGGS GRAVEL PIT (1088 CEMETERY ROAD). MATERIAL WILL **NOT** BE DELIVERED TO THE SITE BY THE COUNTY.
9. IRRIGATION WATER SUPPLY SHALL NOT BE INTERRUPTED BY CONTRACTOR UNLESS COORDINATED AND APPROVED BY THE APPROPRIATE IRRIGATION DISTRICT REPRESENTATIVES. CONTACT INFORMATION FOR DISTRICTS IS AS FOLLOWS:

   FOX CREEK CO. IRRIGATION DISTRICT
   CONTACT: RANDAL FOSTER
   (208)351-4919

   ROCK ROAD SPRINKLER IRRIGATION CO.
   CONTACT: RICK NANSEN
   (208)270-1525
   rick@tetonwaterinc.com
   www.rockroadsic.com – E5000S CROSSING LOCATIONS ARE SHOWN ON WEBSITE
10. CONTRACTOR MUST SUBMIT GRASS SEED MIXTURE TO ENGINEER FOR APPROVAL. SEED AND MULCH ALL DISTURBED AREAS WITH APPROVED DROUGHT TOLERANT NATIVE SEED MIXTURE TO MATCH EXISTING ADJACENT NATIVE VEGETATION.
11. PROVIDE CONTINUOUS MAINTENANCE INCLUDING WATERING, WEED CONTROL, AND RE-SEEDING AS NECESSARY UNTIL THE VEGETATION IS ESTABLISHED.
12. APPLY TACK COAT TO ALL SAWCUT ASPHALT SURFACES THAT WILL RECEIVE NEW ASPHALT. TACK COAT TO BE INCIDENTAL TO ASPHALT PLACEMENT.

Notes

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1	BID SET	5/20

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Project Name and Address

E5000S RECONSTRUCTION
HIGHWAY 33 TO 2000 EAST
TETON COUNTY, IDAHO

NOTES,
LEGEND & ABBREVIATIONS

Project	Sheet
E5000S	C102
Date: 5/20/2015	
Drawn By: SLJ	

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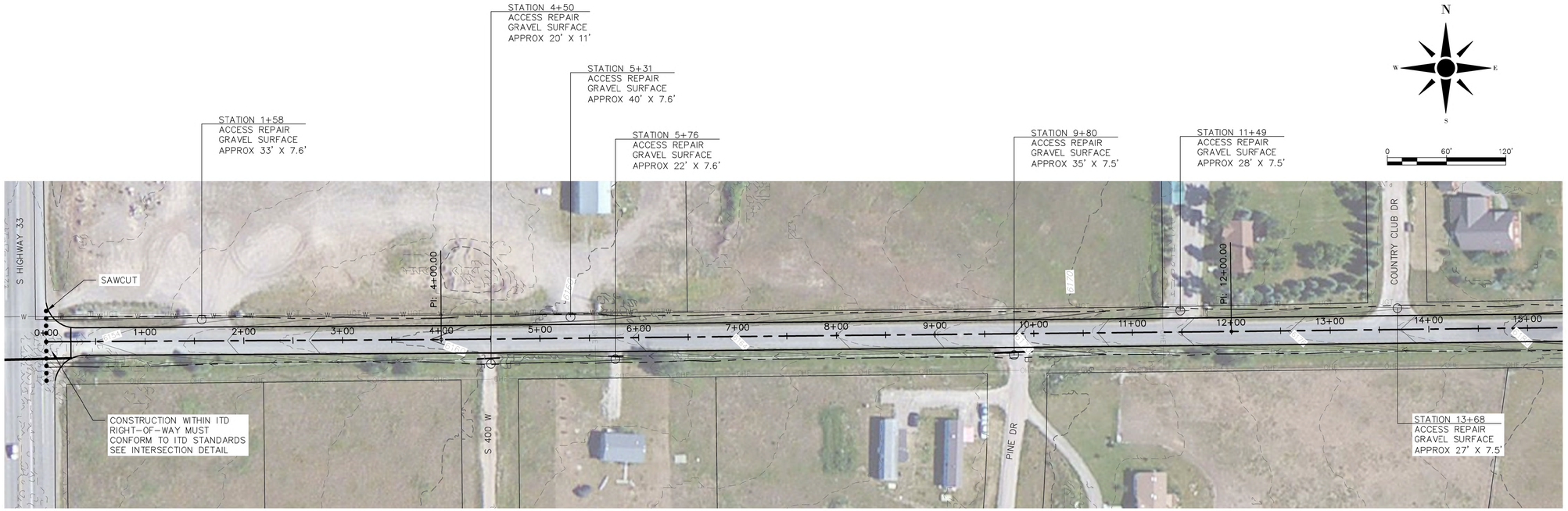

PROFILE VIEW
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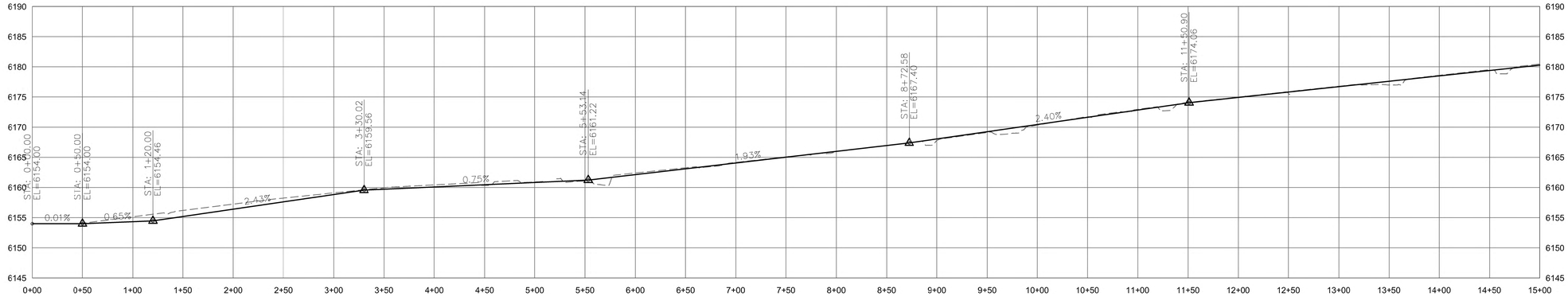

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Project Name and Address

E5000S RECONSTRUCTION
HIGHWAY 33 TO 2000 EAST
TETON COUNTY, IDAHO

PLAN & PROFILE
STA 0+00 to STA 15+00

Project	Sheet
E5000S	C201
Date: 5/20/2015	
Drawn By: SLJ	

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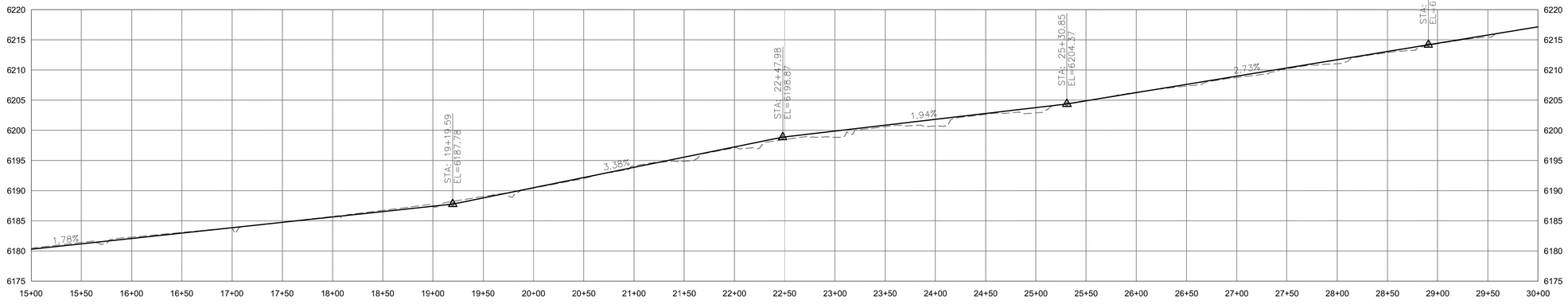

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Project Name and Address

E5000S RECONSTRUCTION
HIGHWAY 33 TO 2000 EAST
TETON COUNTY, IDAHO

PLAN & PROFILE
STA 15+00 to STA 30+00

Project	Sheet
E5000S	C202
Date: 5/20/2015	
Drawn By: SLJ	

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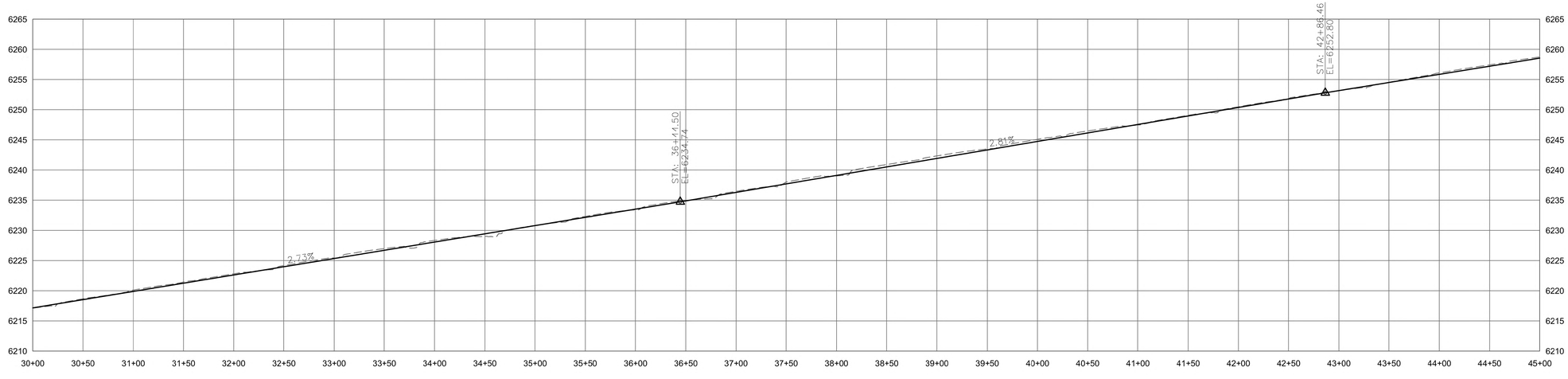

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E5000S RECONSTRUCTION
HIGHWAY 33 TO 2000 EAST
TETON COUNTY, IDAHO

PLAN & PROFILE
STA 30+00 to STA 45+00

Project	Sheet
E5000S	C203
Date: 5/20/2015	
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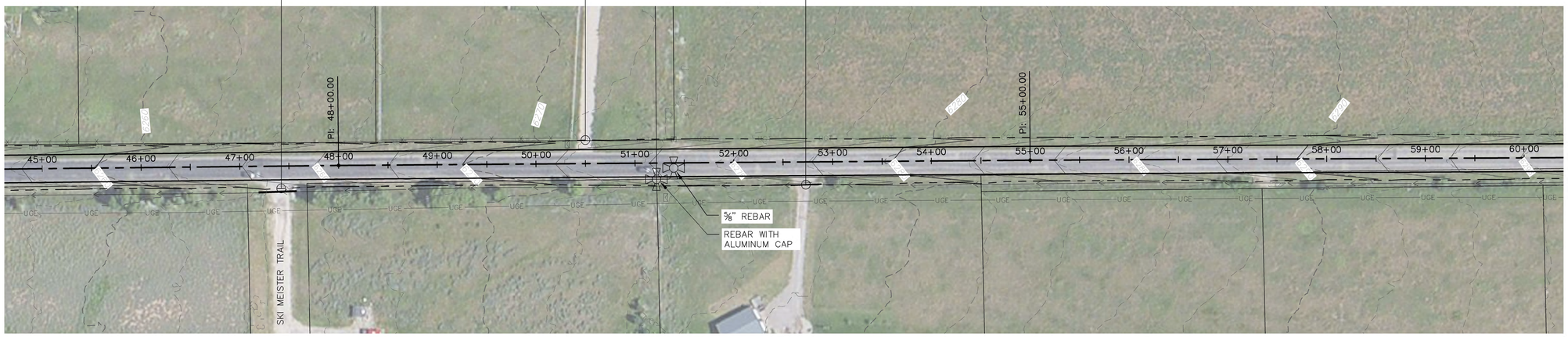

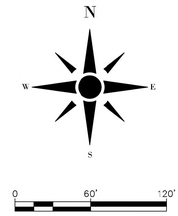

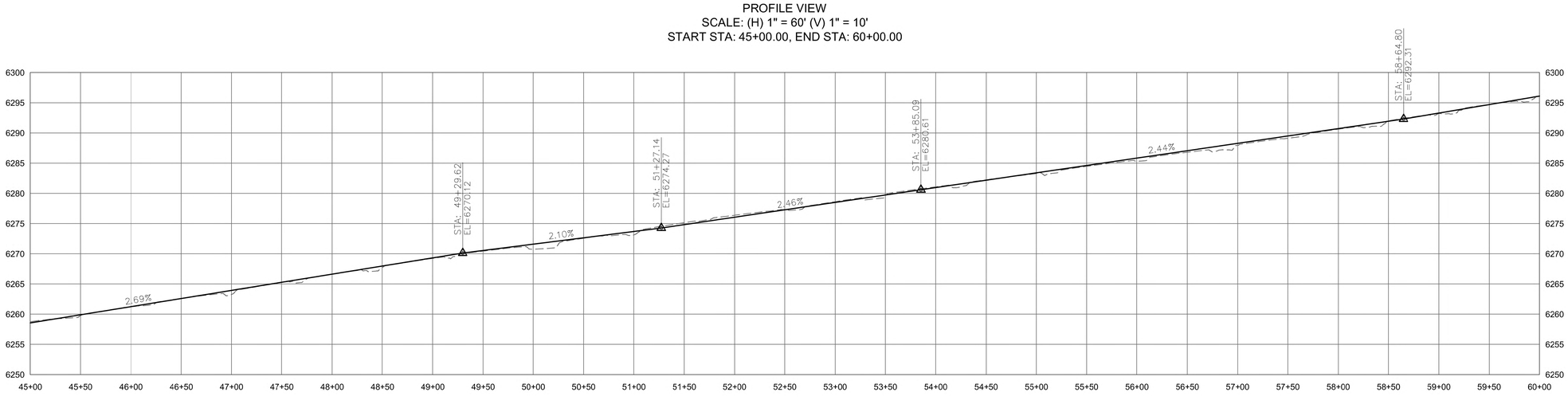

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Project Name and Address

E5000S RECONSTRUCTION
HIGHWAY 33 TO 2000 EAST
TETON COUNTY, IDAHO

PLAN & PROFILE
STA 45+00 to STA 60+00

Project	Sheet
E5000S	C204
Date: 5/20/2015	
Drawn By: SLJ	

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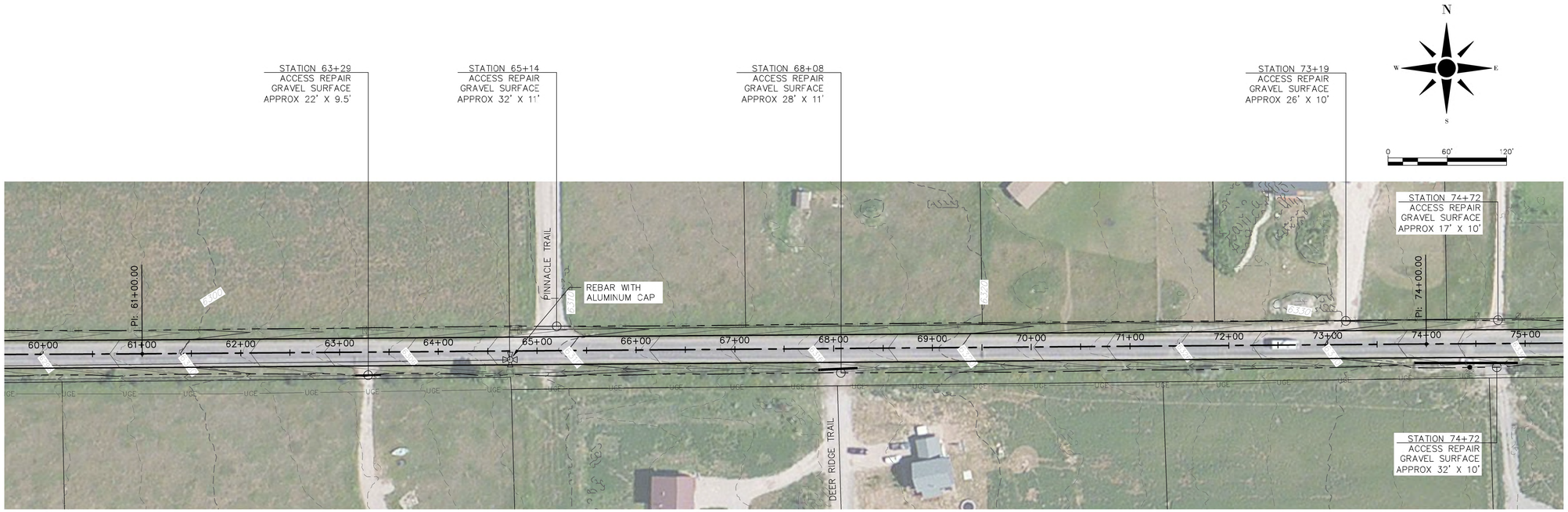

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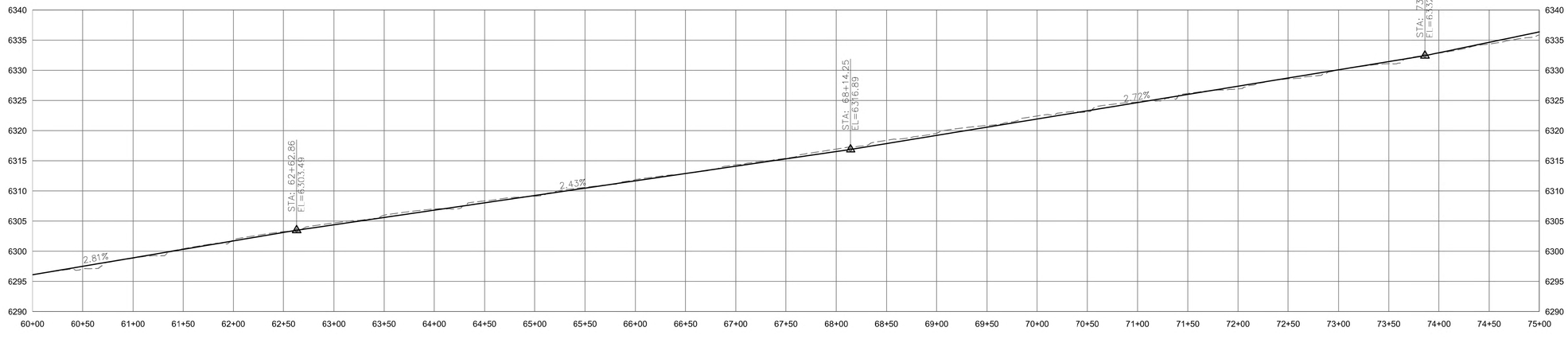

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Project Name and Address

E5000S RECONSTRUCTION
HIGHWAY 33 TO 2000 EAST
TETON COUNTY, IDAHO

PLAN & PROFILE
STA 60+00 to STA 75+00

Project	Sheet
E5000S	C205
Date: 5/20/2015	
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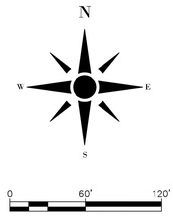

PROFILE VIEW
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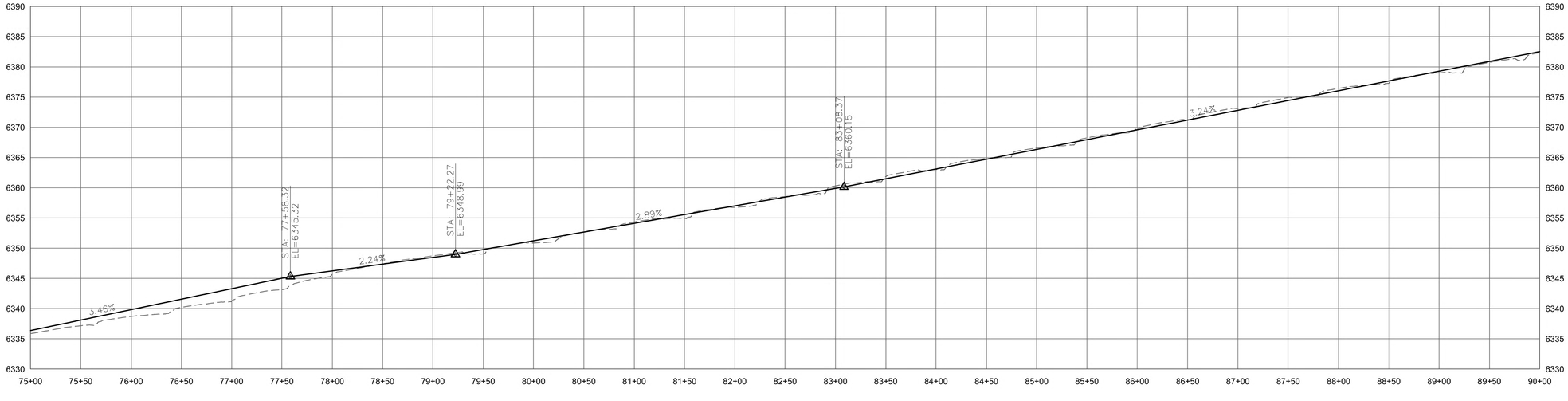

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Project Name and Address

E5000S RECONSTRUCTION
HIGHWAY 33 TO 2000 EAST
TETON COUNTY, IDAHO

PLAN & PROFILE
STA 75+00 to STA 90+00

Project	Sheet
E5000S	C206
Date: 5/20/2015	
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PROFILE VIEW
SCALE: (H) 1" = 60' (V) 1" = 10'
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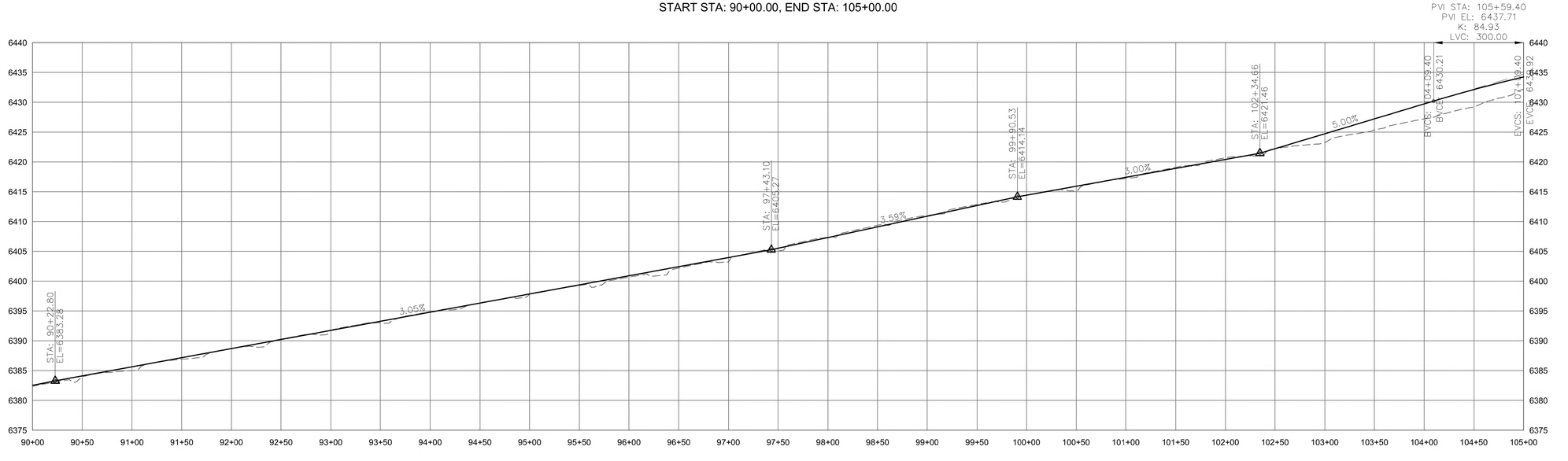

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Project Name and Address

E5000S RECONSTRUCTION
HIGHWAY 33 TO 2000 EAST
TETON COUNTY, IDAHO

PLAN & PROFILE
STA 90+00 to STA 105+00

Project	Sheet
E5000S	C207
Date: 5/20/2015	
Drawn By: SLJ	

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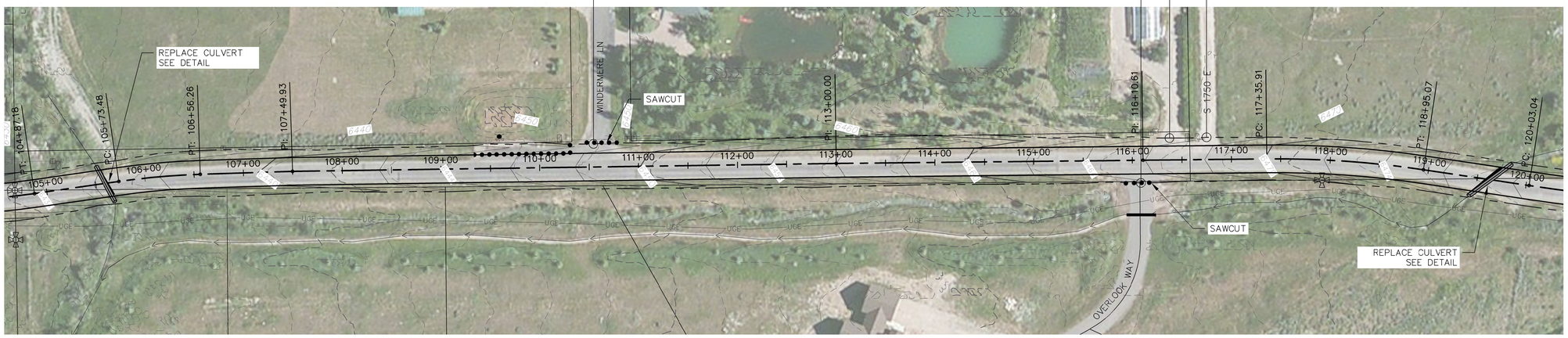

PROFILE VIEW
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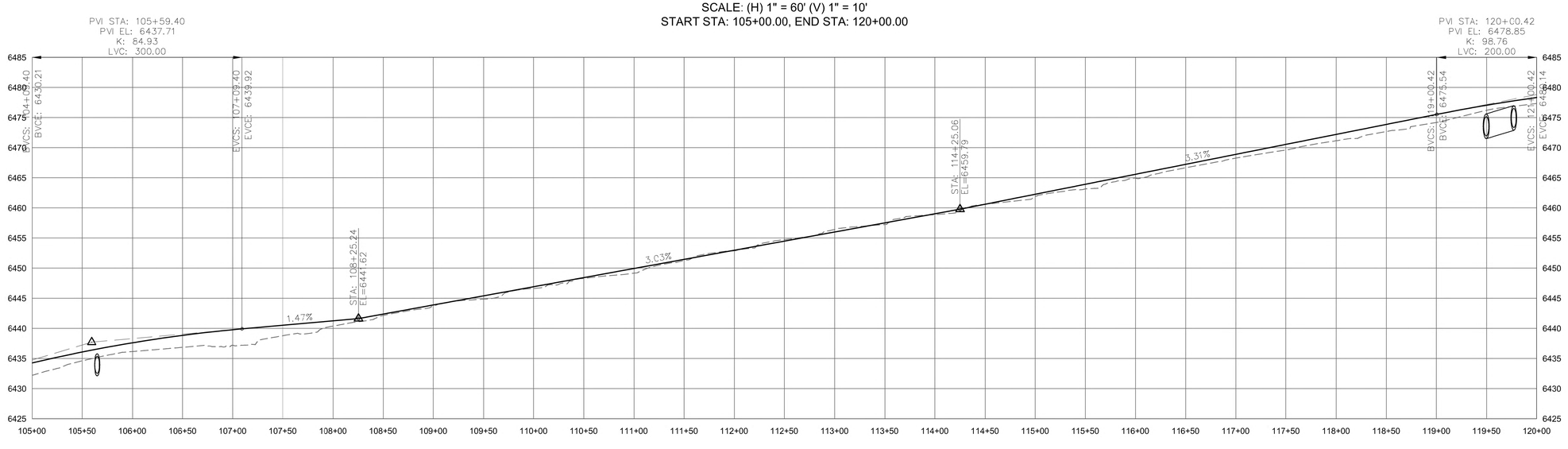

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Project Name and Address

E5000S RECONSTRUCTION
HIGHWAY 33 TO 2000 EAST
TETON COUNTY, IDAHO

PLAN & PROFILE
STA 105+00 to STA 120+00

Project	Sheet
E5000S	C208
Date: 5/20/2015	
Drawn By: SLJ	

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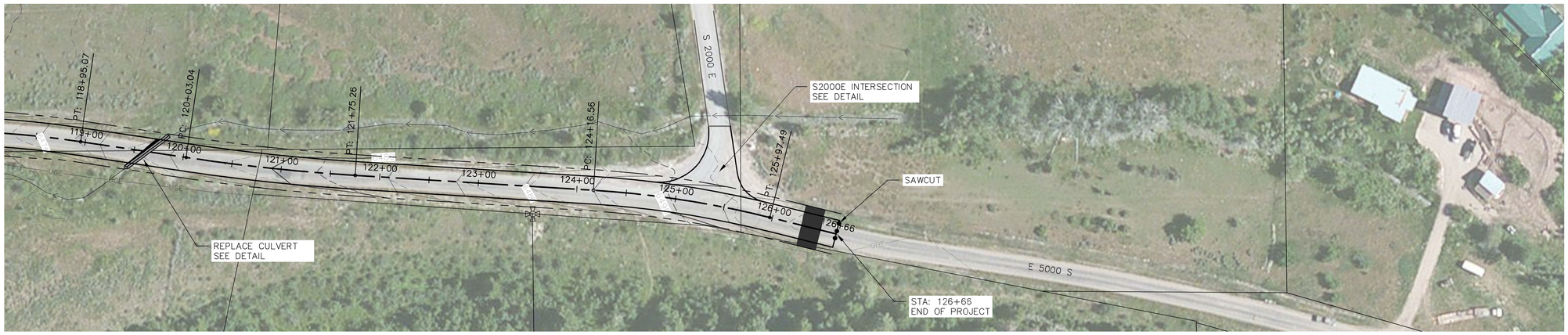

PROFILE VIEW
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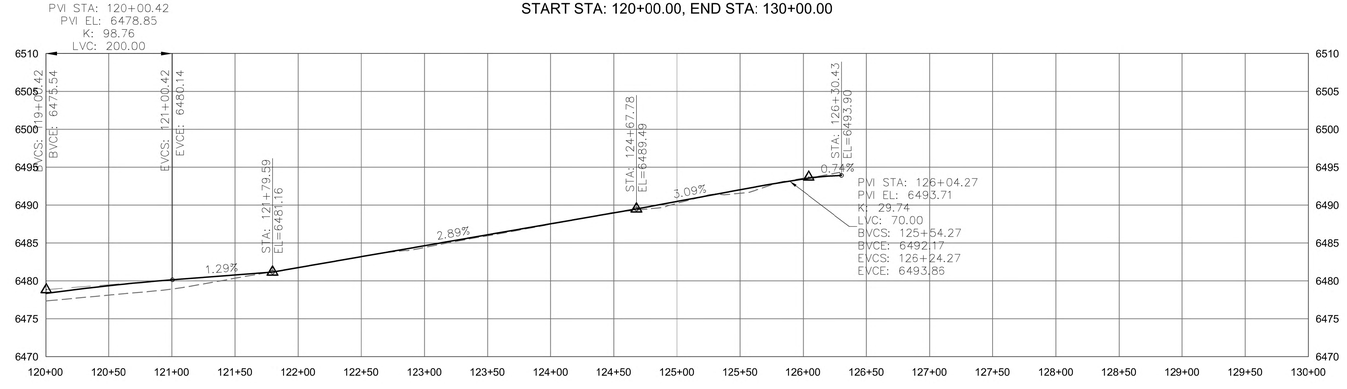

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PLAN & PROFILE
STA 120+00 to END

Project	Sheet
E5000S	C209
Date: 5/20/2015	
Drawn By: SLJ	

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HIGHWAY INTERSECTION DETAIL

SEE GRAPHIC SCALE

N

W E

S

0 10' 20'

Notes

No.	Revision/Issue	Date
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Arrowleaf ENGINEERING, PC
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DRIGGS, ID 83422
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Project Name and Address

E5000S RECONSTRUCTION
HIGHWAY 33 TO 2000 EAST
TETON COUNTY, IDAHO

HIGHWAY 33
INTERSECTION

Project	Sheet
E5000S	C301
Date: 5/20/2015	
Drawn By: SLJ	

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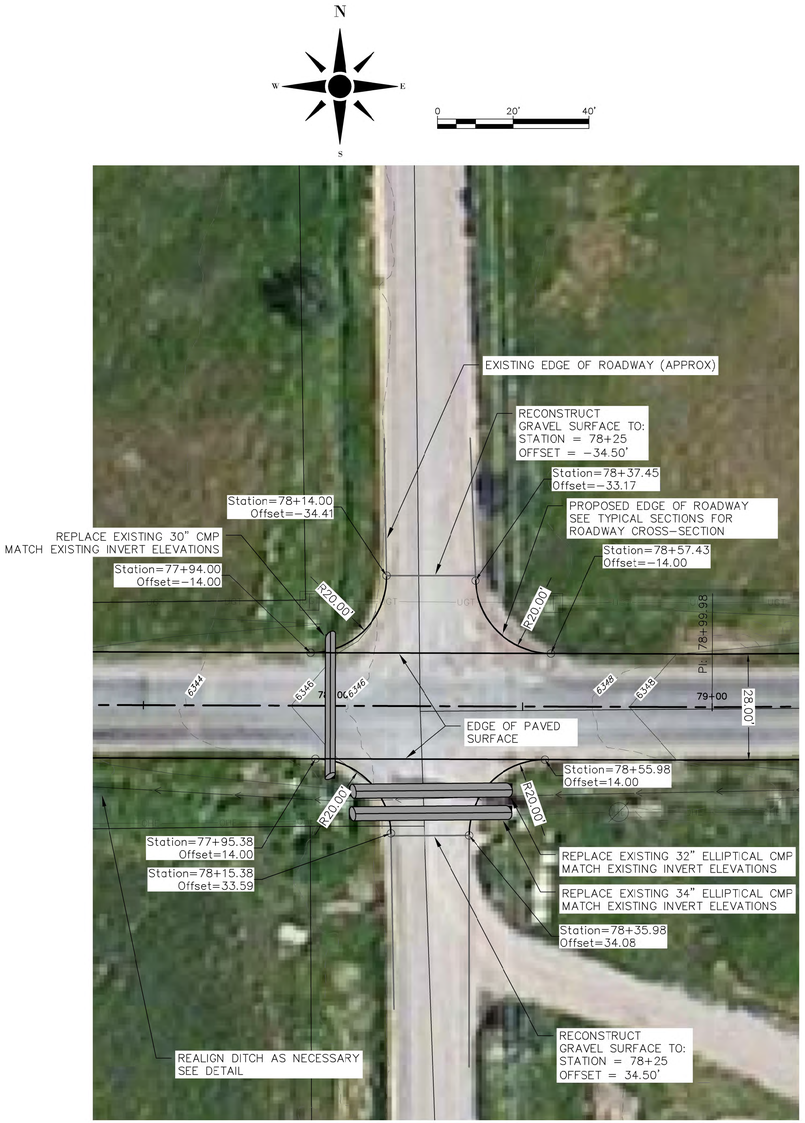
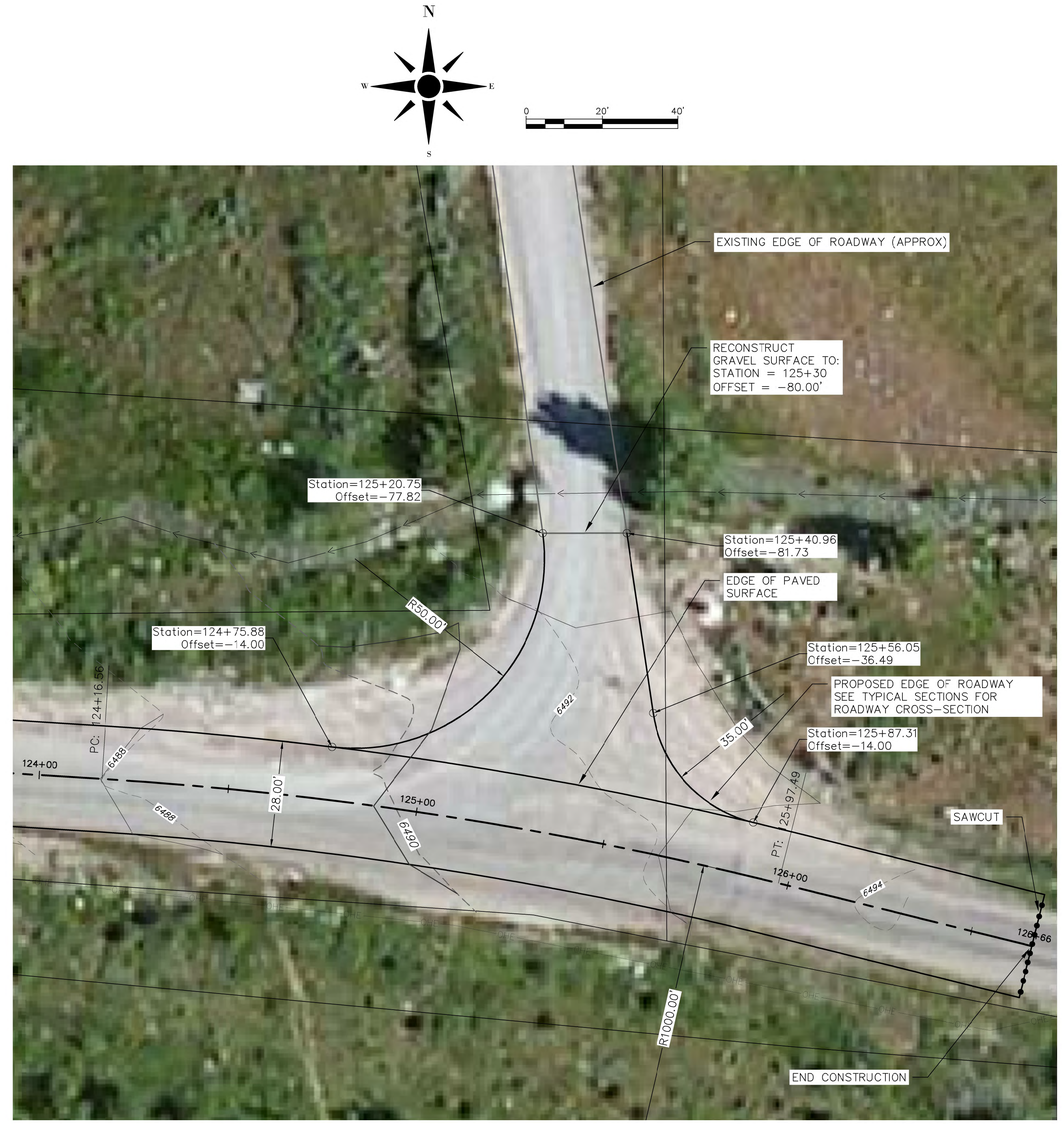


S1000E INTERSECTION DETAIL

SEE GRAPHIC SCALE



S2000E INTERSECTION DETAIL

SEE GRAPHIC SCALE

Notes

No.	Revision/Issue	Date
1	BID SET	5/20

TETON COUNTY
150 Courthouse Drive
Driggs, ID 83422
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Project Name and Address

E5000S RECONSTRUCTION
HIGHWAY 33 TO 2000 EAST
TETON COUNTY, IDAHO

S1000E & S2000E
INTERSECTIONS

Project	Sheet
E5000S	C302
Date: 5/20/2015	
Drawn By: SLJ	

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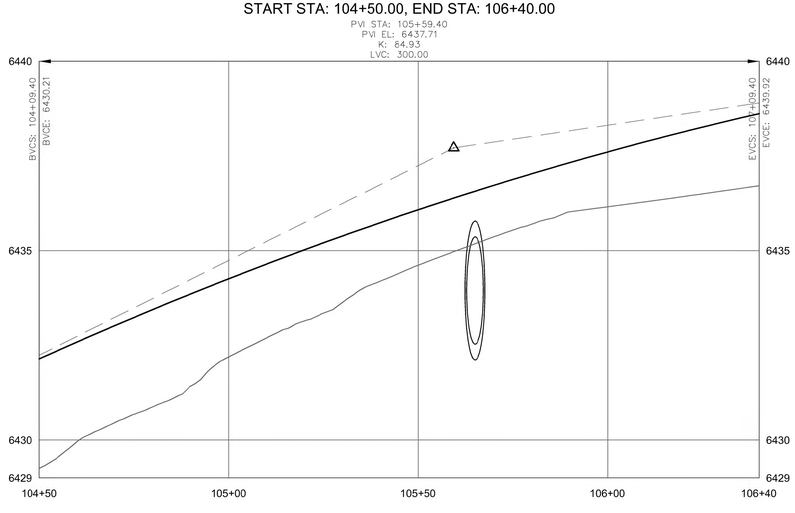
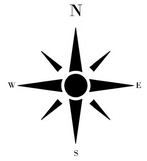
PROFILE VIEW
SCALE: (H) 1" = 20' (V) 1" = 2'
START STA: 104+50.00, END STA: 106+40.00

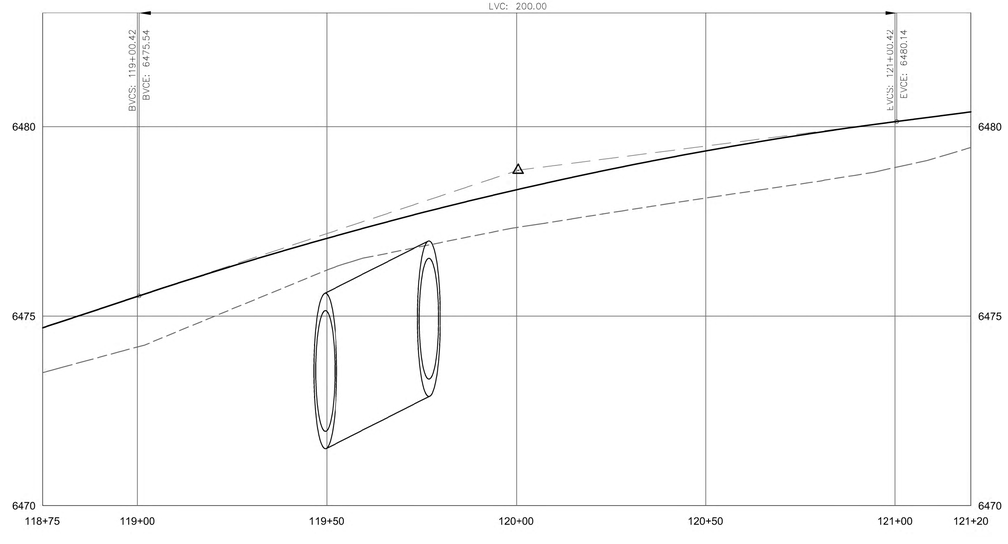


STATION 105+60 CULVERT CROSSING

SEE GRAPHIC SCALE



PROFILE VIEW
SCALE: (H) 1" = 20' (V) 1" = 2'
START STA: 118+75.00, END STA: 121+20.00



STATION 119+60 CULVERT CROSSING

SEE GRAPHIC SCALE

Notes

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1	BID SET	5/20

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Project Name and Address

E5000S RECONSTRUCTION
HIGHWAY 33 TO 2000 EAST
TETON COUNTY, IDAHO

CULVERT
CROSSINGS

Project	Sheet
E5000S	C303
Date: 5/20/2015	
Drawn By: SLJ	

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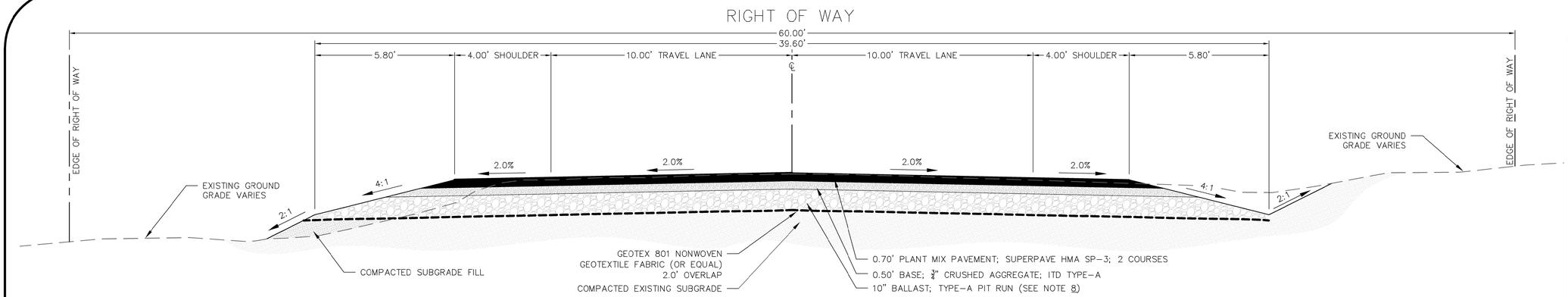
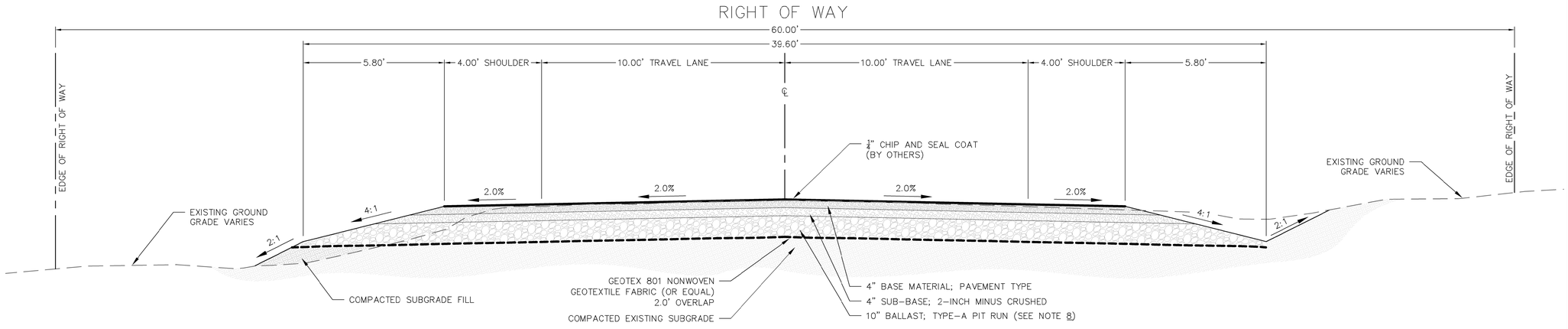


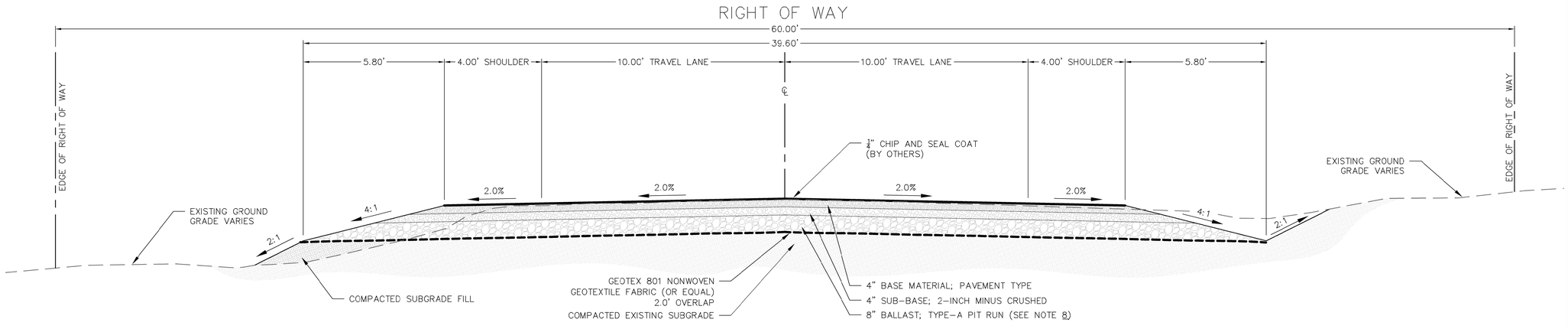
TYPICAL ROADWAY SECTION – STATION 0+00 TO STATION 0+25

NOT TO SCALE



TYPICAL ROADWAY SECTION – STATION 0+25 TO STATION 31+50

NOT TO SCALE



TYPICAL ROADWAY SECTION – STATION 31+50 TO STATION 126+65

NOT TO SCALE

Notes

No.	Revision/Issue	Date
1	BID SET	5/20

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Project Name and Address

E5000S RECONSTRUCTION
HIGHWAY 33 TO 2000 EAST
TETON COUNTY, IDAHO

TYPICAL
ROADWAY SECTIONS

Project	Sheet
E5000S	C304
Date: 5/20/2015	
Drawn By: SLJ	

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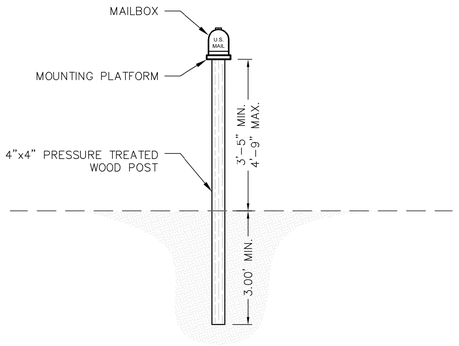
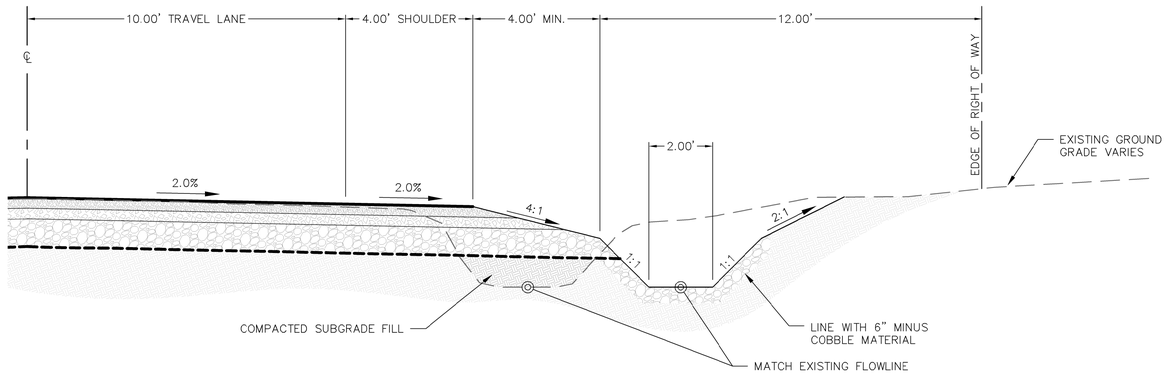


NOTES:

1. CONTRACTOR TO PROVIDE NEW POST, NEW MOUNTING PLATFORM, AND NEW BRACKET HARDWARE FOR EACH MAILBOX REQUIRING RELOCATION.
2. CONTRACTOR TO SAVE AND RE-USE MAILBOXES WHEREVER POSSIBLE.
3. FOR COMMUNITY/MULTIPL MAILBOXES CONTRACTOR SHALL SAVE AND RE-USE MAILBOXES AND CROSS-MEMBER. CONTRACTOR SHALL PROVIDE NEW PLATFORM HARDWARE AND POSTS.
4. MOUNTING PLATFORM AND BRACKET HARDWARE TO BE APPROVED BY ENGINEER.

MAILBOX DETAIL

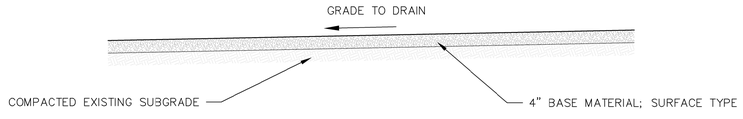
NOT TO SCALE



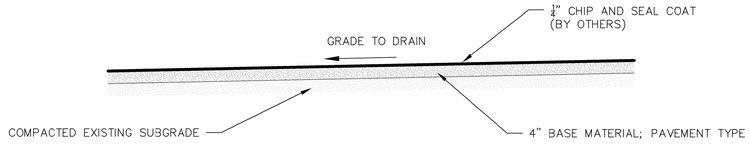
IRRIGATION DITCH RE-ALIGNMENT DETAIL

NOT TO SCALE

GRAVEL TYPE



PAVED TYPE

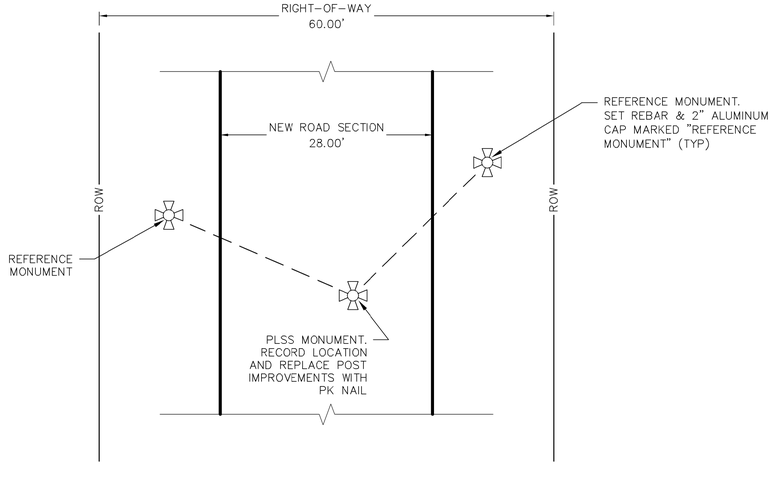


NOTES:

1. MAXIMUM GRADE = 4%.
2. GRADE TO SMOOTHLY TIE TO EXISTING ACCESS DRIVES.

TYPICAL SECTIONS FOR ACCESS DRIVE REPAIRS

NOT TO SCALE



NOTES:

1. CONTRACTOR SHALL HAVE ID REGISTERED LAND SURVEYOR RECORD LOCATION OF ALL PLSS MONUMENTS TO BE DISTURBED AS PART OF ROAD CONSTRUCTION.
2. POST CONSTRUCTION MONUMENTS SHALL BE REPLACED BY IDAHO REGISTERED LAND SURVEYOR WITH PK NAIL IN ASPHALT.
3. A MINIMUM OF 2 REFERENCE MONUMENTS SHALL BE SET IN PROTECTED AREAS. MONUMENTS SHALL BE REBAR WITH 2" ALUMINUM CAP MARKED "REFERENCE MONUMENT".
4. PLS SHALL PREPARE & RECORD CORNER PERPETUATION AND FILING REPORT. REPORT SHALL INCLUDE PLSS MONUMENT LAT & LONG, STATE PLANE COORDINATES, AND COORDINATE SYSTEM DETAILS.

PLSS MONUMENT RE-ESTABLISHMENT DETAIL

NOT TO SCALE

Notes

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Project Name and Address

E5000S RECONSTRUCTION
HIGHWAY 33 TO 2000 EAST
TETON COUNTY, IDAHO

PROJECT DETAILS

Project	Sheet
E5000S	C305
Date: 5/20/2015	
Drawn By: SLJ	

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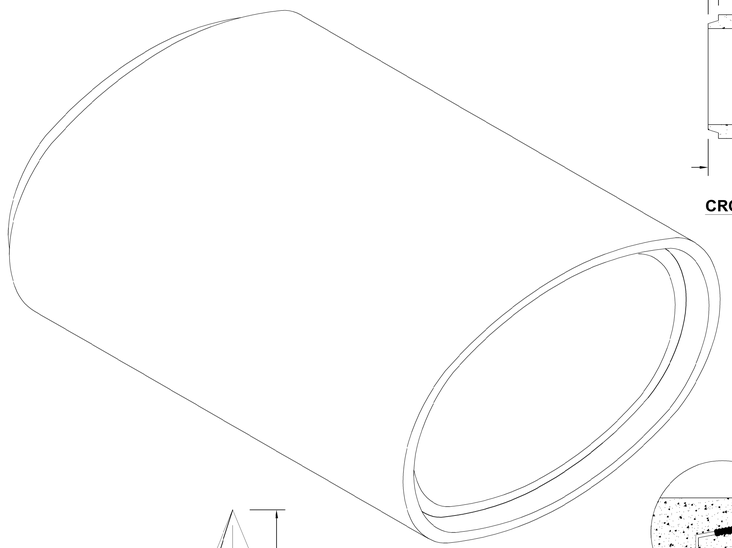
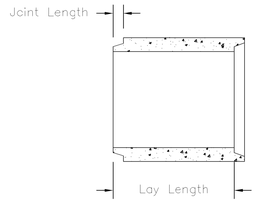
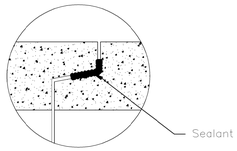


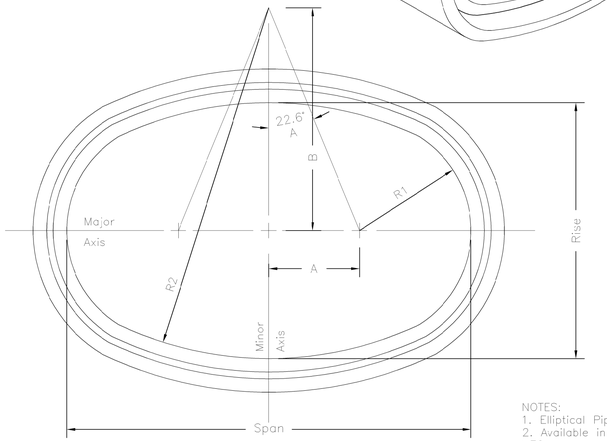


CROSS SECTION

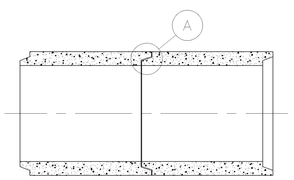


DETAIL A

Sealant Detail



END VIEW



JOINT SECTION

NOTES:
1. Elliptical Pipe is designed to meet ASTM C-507.
2. Available in classes HEA, HE1 to HE4, VE2 to VE6.

Equiv. Diameter	Span	Rise	A IN.	B IN.	R1 IN	R2 IN	Wall Thickness	Lay Length	Joint Length	Cross Sectional Area (S.F.)	Approx. Weight Lbs./L.F.
18"	22.75"	14.25"	5.375	12.875	6.000	20.000	2.75"	8'-0"	2"	1.83	195
24"	30.25"	19.25"	6.875	16.625	8.250	26.250	3.25"	8'-0"	2"	3.28	300
30"	37.75"	24"	8.625	20.750	10.250	32.750	3.75"	8'-0"	2.5"	5.10	430
36"	45.50"	28.75"	10.500	24.875	12.250	39.250	4.5"	8'-0"	3"	7.36	625
42"	53.25"	34"	12.125	29.000	14.500	46.000	5"	7'-6"	NA	10.2	815
48"	60"	38.25"	13.500	32.375	16.500	51.500	5.5"	8'-0"	3.75	12.9	1,000
54"	68"	43.50"	15.250	36.750	18.750	58.500	6"	8'-0"	4"	16.7	1,235
60"	75.50"	48.25"	17.000	40.875	20.750	65.000	6.5"	8'-0"	4"	20.5	1,475
66"	83"	53"	18.750	45.000	22.750	71.500	7"	7'-6"	NA	24.8	1,745
72"	90.50"	57.75"	20.500	49.125	24.750	78.000	7.5"	7'-6"	NA	29.4	2,040
78"	98"	62.75"	22.000	53.125	27.000	84.500	8"	6'-0"	NA	34.6	2,350
84"	105.50"	67.50"	23.750	57.000	29.000	90.750	8.5"	6'-0"	NA	40.1	2,680
90"	113"	72.50"	25.500	61.000	31.000	97.250	9"	6'-0"	NA	46.1	3,050
96"	120.50"	77.25"	27.000	65.125	33.250	103.750	9.5"	6'-0"	NA	52.4	3,420
102"	128"	82"	28.750	69.000	35.250	110.000	9.75"	6'-0"	NA	59.1	3,725
108"	135.50"	87"	30.250	72.750	37.500	116.250	10"	6'-0"	NA	66.4	4,050
114"	143"	91.75"	32.000	76.875	39.500	122.750	10.5"	6'-0"	NA	73.9	4,470
120"	150.75"	96.75"	33.875	80.875	41.500	129.250	11"	6'-0"	NA	82.1	4,930
132"	165.50"	106.50"	37.000	88.750	45.750	142.000	12"	6'-0"	NA	99.2	5,900
144"	180.75"	116"	40.375	96.750	50.000	154.750	13"	6'-0"	NA	118.0	7,000

ELLIPTICAL RCP DETAIL

NOT TO SCALE

Notes

No.	Revision/Issue	Date
1	BID SET	5/20

TETON COUNTY
150 Courthouse Drive
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Project Name and Address

E5000S RECONSTRUCTION
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TETON COUNTY, IDAHO

PROJECT
DETAILS

Project	Sheet
E5000S	C306
Date: 5/20/2015	
Drawn By: SLJ	

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