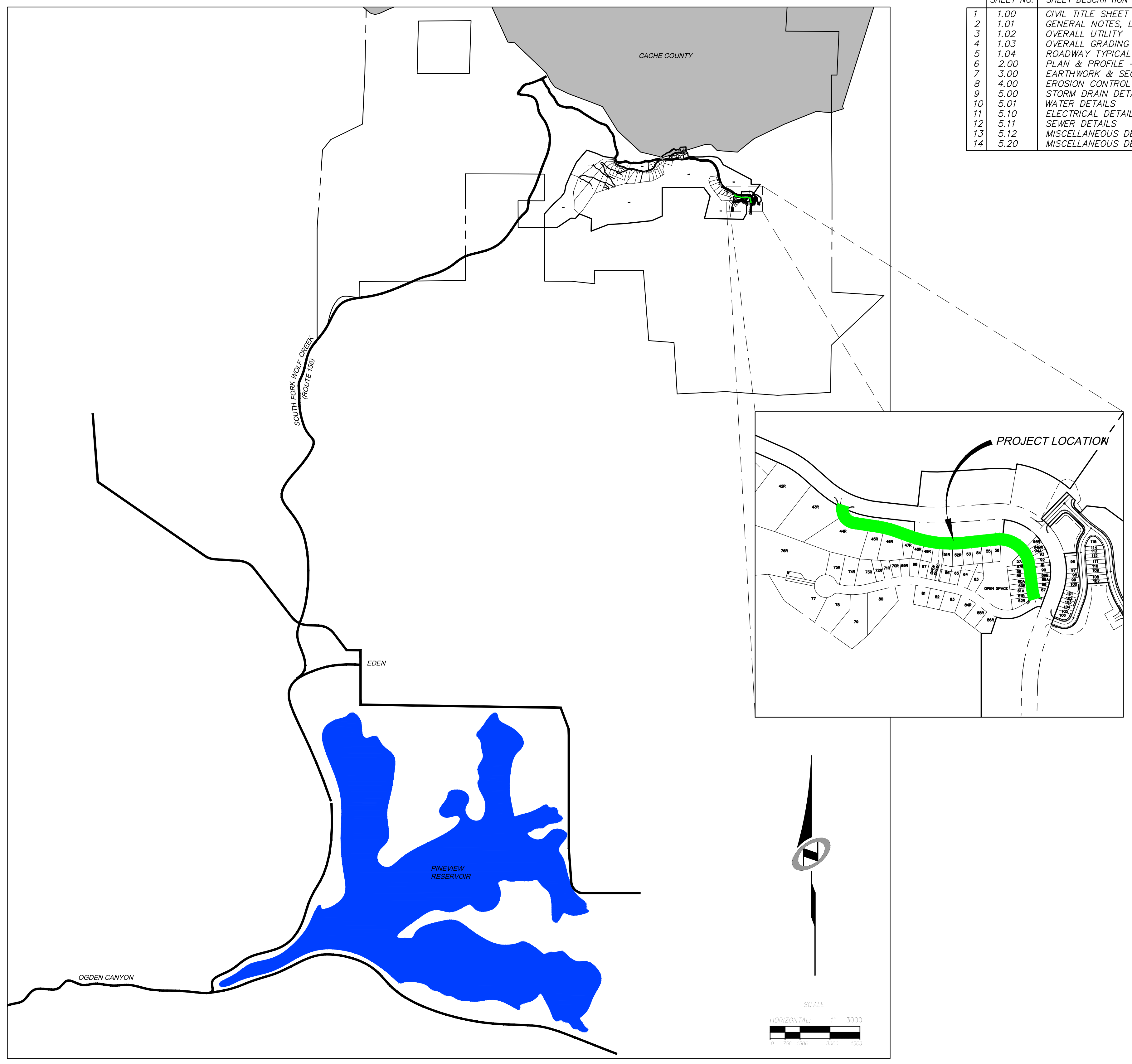


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SUMMIT EDEN PHASE 1C

ROADWAY AND UTILITY CONSTRUCTION DRAWINGS

Located in Sec 01 T7N R1E
Weber County, Utah



SHEET INDEX:

SHEET NO.	SHEET DESCRIPTION
1	1.00 CIVIL TITLE SHEET
2	1.01 GENERAL NOTES, LEGEND, AND KEYNOTES
3	1.02 OVERALL UTILITY
4	1.03 OVERALL GRADING
5	1.04 ROADWAY TYPICAL SECTIONS
6	2.00 PLAN & PROFILE - COPPER CREST ROAD
7	3.00 EARTHWORK & SECTIONS - COPPER CREST ROAD
8	4.00 EROSION CONTROL PLAN - COPPER CREST ROAD
9	5.00 STORM DRAIN DETAILS
10	5.01 WATER DETAILS
11	5.10 ELECTRICAL DETAILS
12	5.11 SEWER DETAILS
13	5.12 MISCELLANEOUS DETAILS
14	5.20 MISCELLANEOUS DETAILS

NO.	BY	DATE	REVISIONS
1	RMC	5/27/2014	LOW F. DESIGN

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

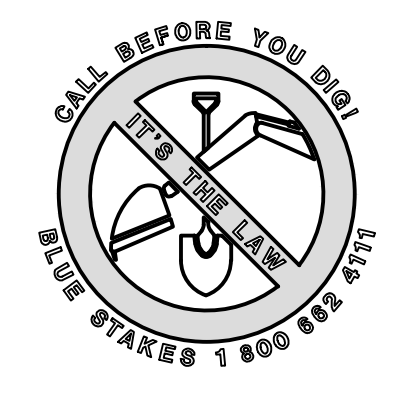
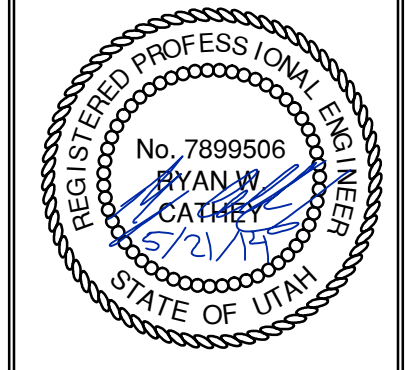
SUMMIT EDEN PHASE 1C

CIVIL TITLE SHEET

DATE SUBMITTED: 12/17/2013

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

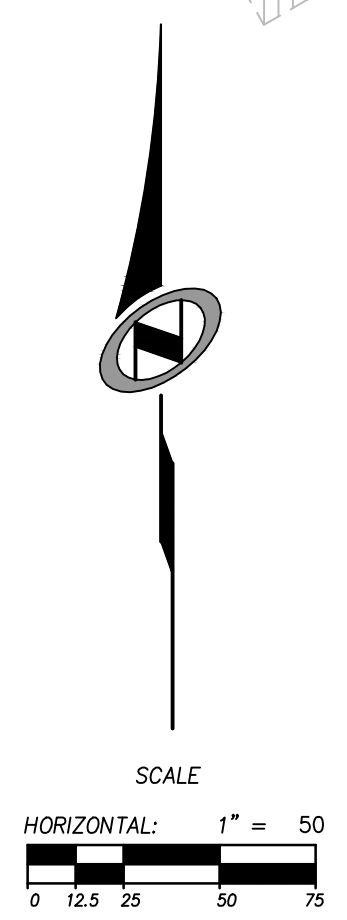
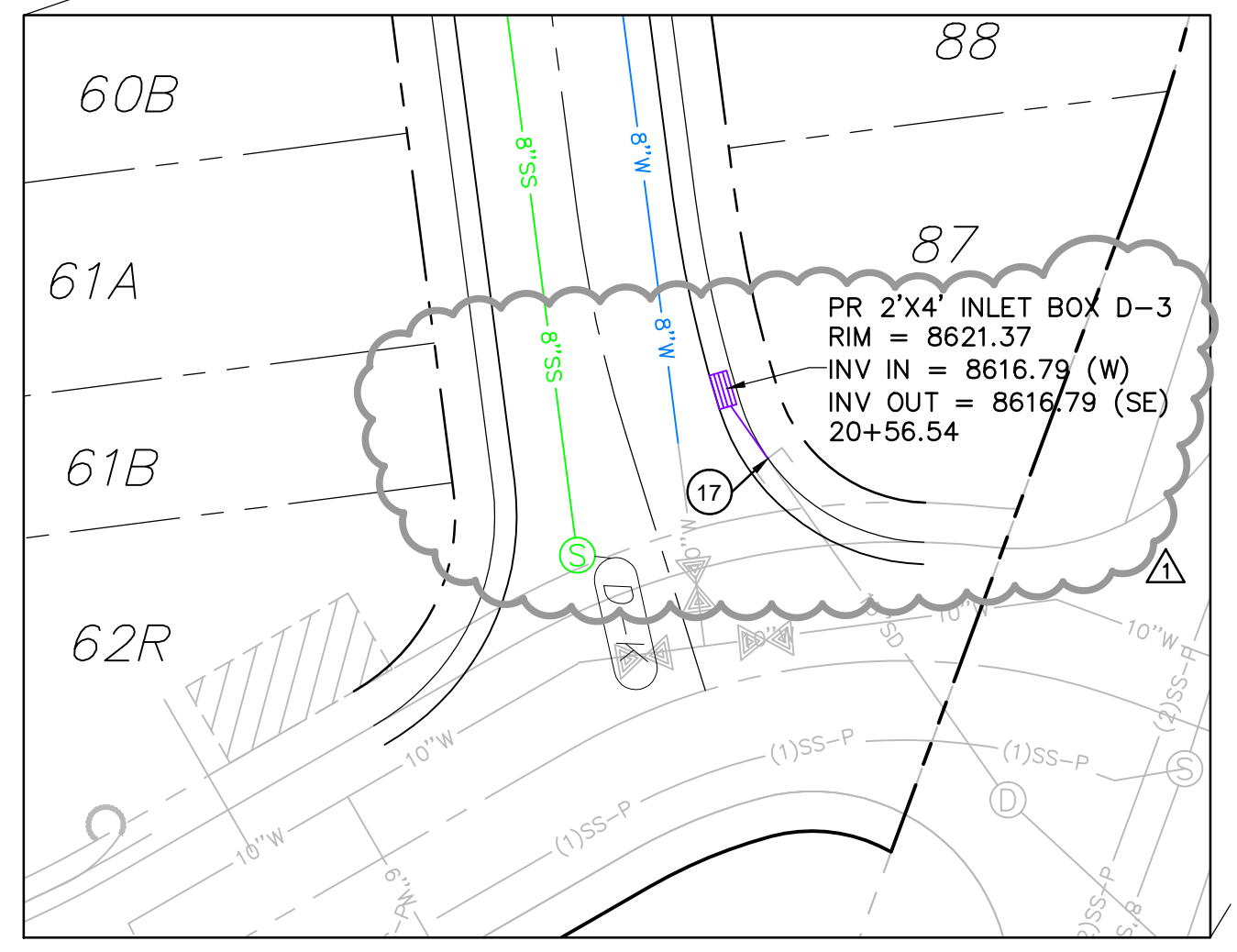
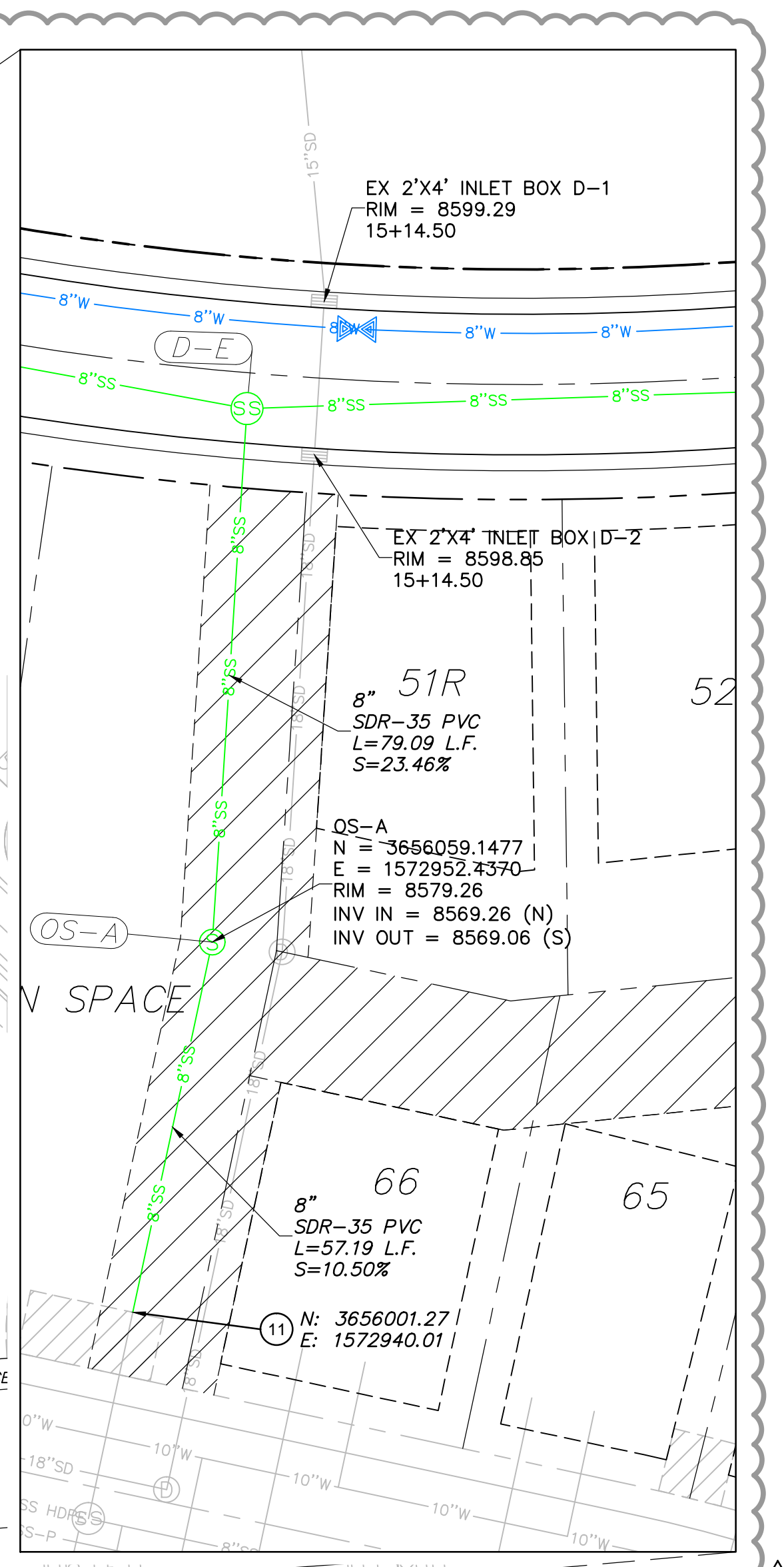


SHEET NUMBER
1.00

SCALE
 VERTICAL: 1" = 10'
 HORIZONTAL: 1" = 3000'

JOB NUMBER
SLB079306

BOWDEN XREFS:



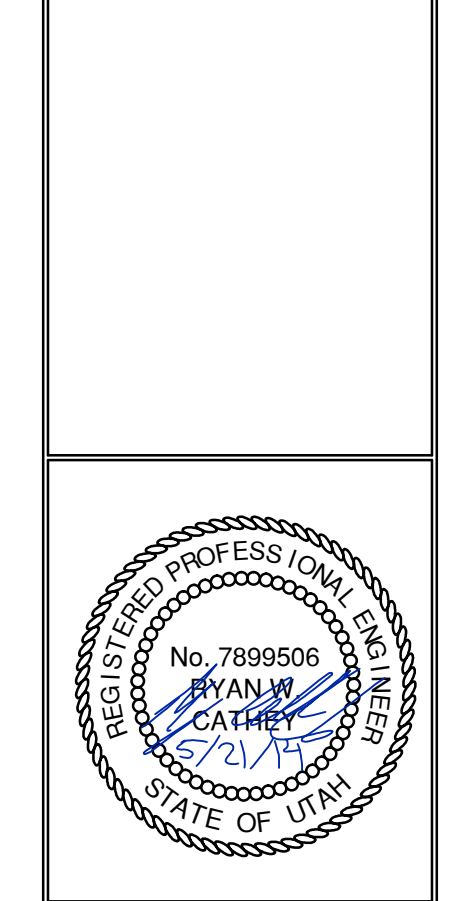
NO.	BY	DATE	REVISIONS
1	RMC	5/27/2014	LOW K DESIGN

SUMMIT EDEN PHASE 1C
OVERALL UTILITY PLAN

DATE SUBMITTED: 12/17/2013

PREPARED FOR: SUMMIT, LLC

NV5
 BEYOND ENGINEERING
 6217 SOUTH STATE STREET, SUITE 200
 MURRAY, UT 84107
 801.743.0300 TEL. 801.743.0300 FAX
 WWW.NV5.COM

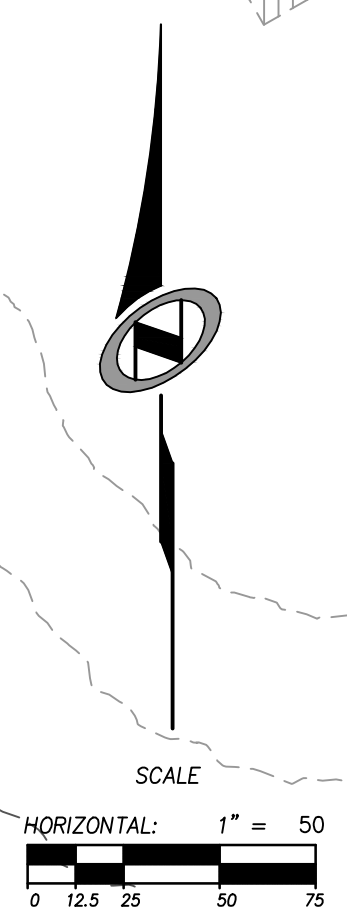


SHEET NUMBER
1.02

SCALE
 VERTICAL: 1" = 10'
 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 unless they are specifically approved by the engineer.



NO.	BY	DATE	REVISIONS
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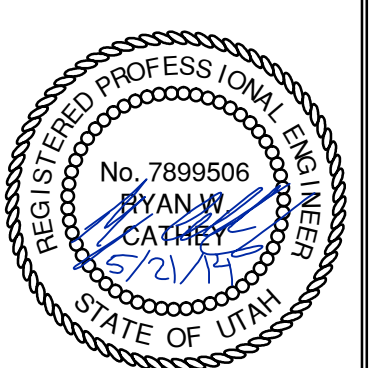
CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. The engineer's responsibility is limited to the design and construction of these plans.

SUMMIT EDEN PHASE 1C OVERALL GRADING PLAN

DATE SUBMITTED: 12/17/2013

PREPARED FOR: SUMMIT, LLC

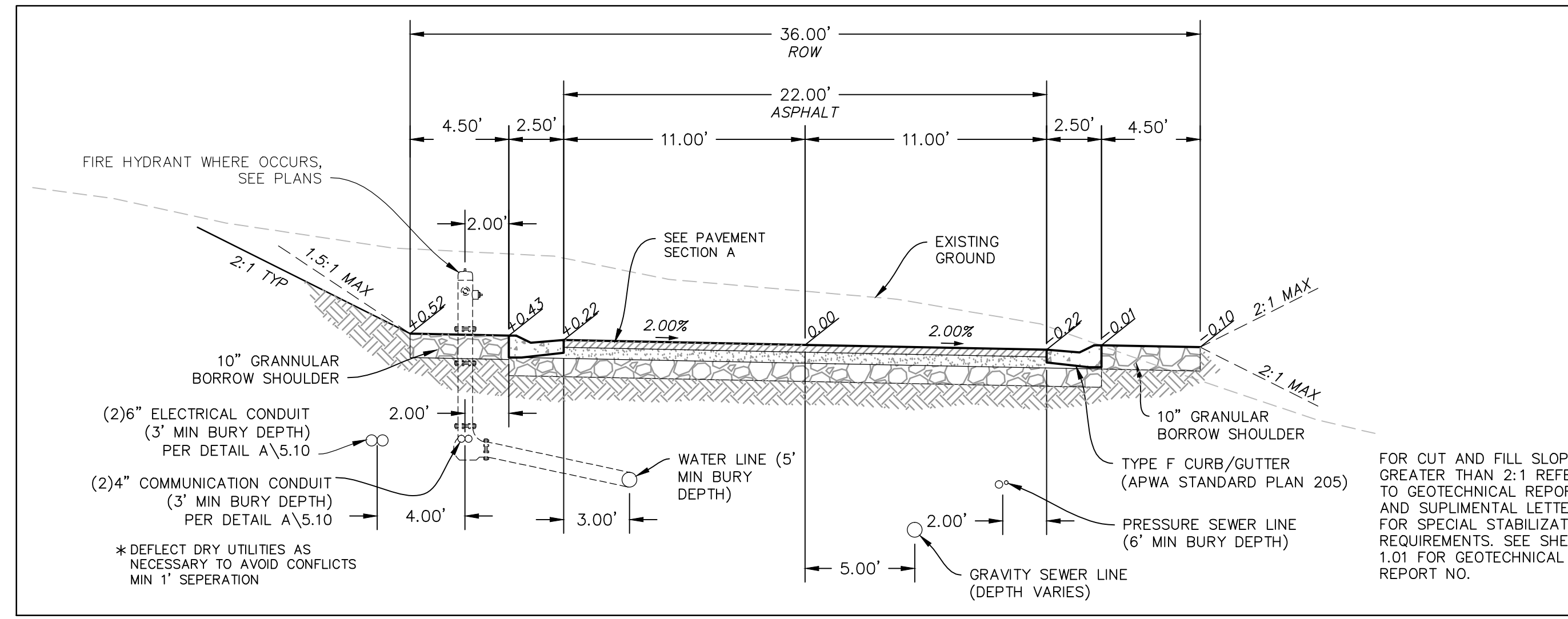
NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 MURRAY, UT 84107
 801.743.0300 TEL. 801.743.0300 FAX
 WWW.NV5.COM



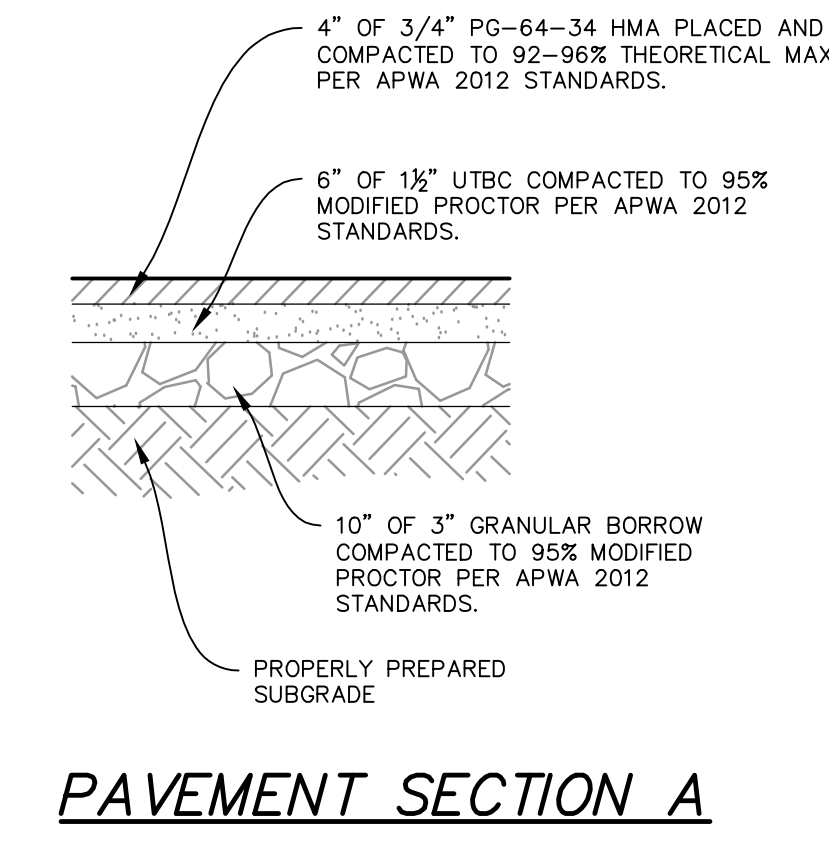
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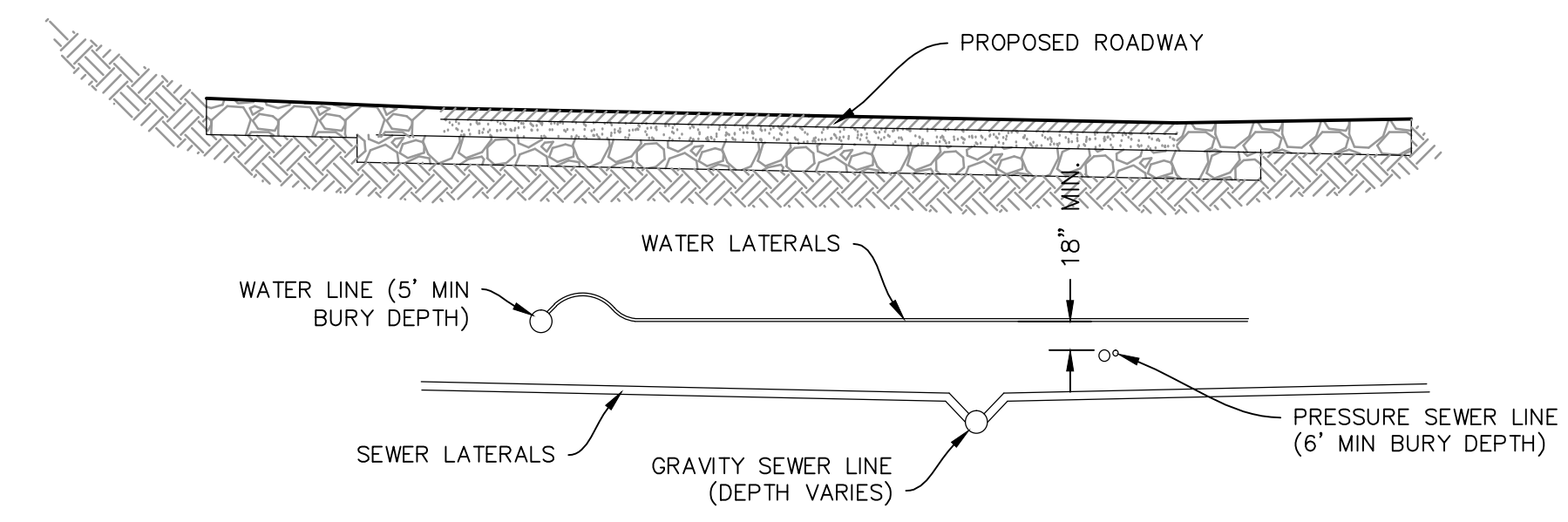
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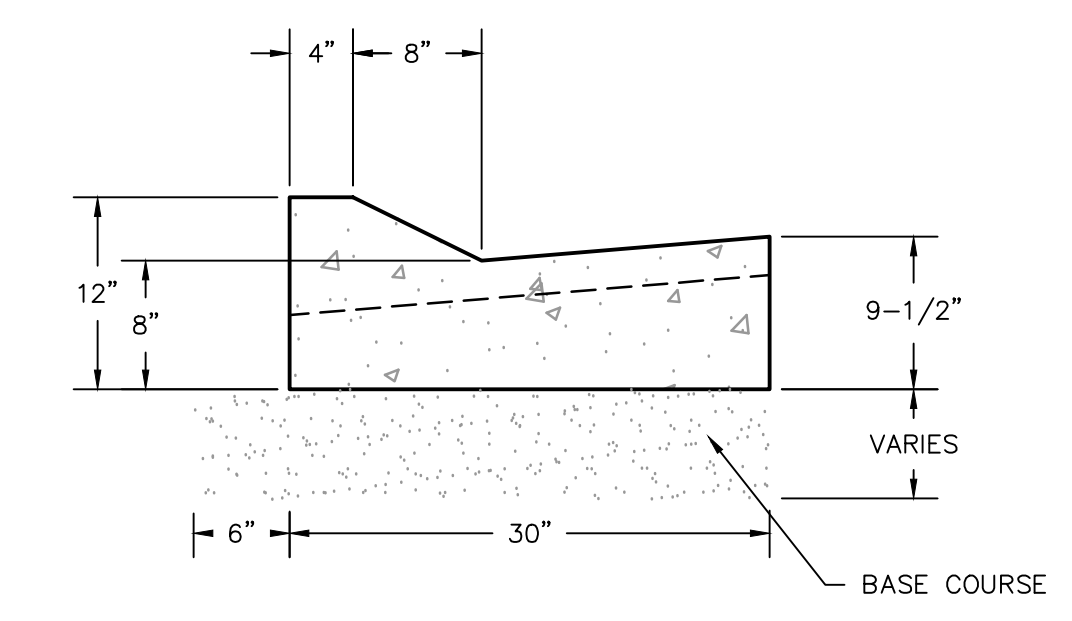
TYPICAL ROADWAY SECTION A-A
 (36' RIGHT OF WAY SECTION)
 STA: 10+00.00 TO 20+88.66



PAVEMENT SECTION A



SECTION



TYPE F CURB & GUTTER

NO.	BY	DATE	REVISIONS
1	RHC	5/27/2014	LOW F. DESIGN

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 1C
ROADWAY TYPICAL SECTIONS

DATE SUBMITTED: 12/17/2013

PREPARED FOR: SUMMIT, LLC

NV5
 BEYOND ENGINEERING
 6217 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
 12/21/13
 STATE OF UTAH

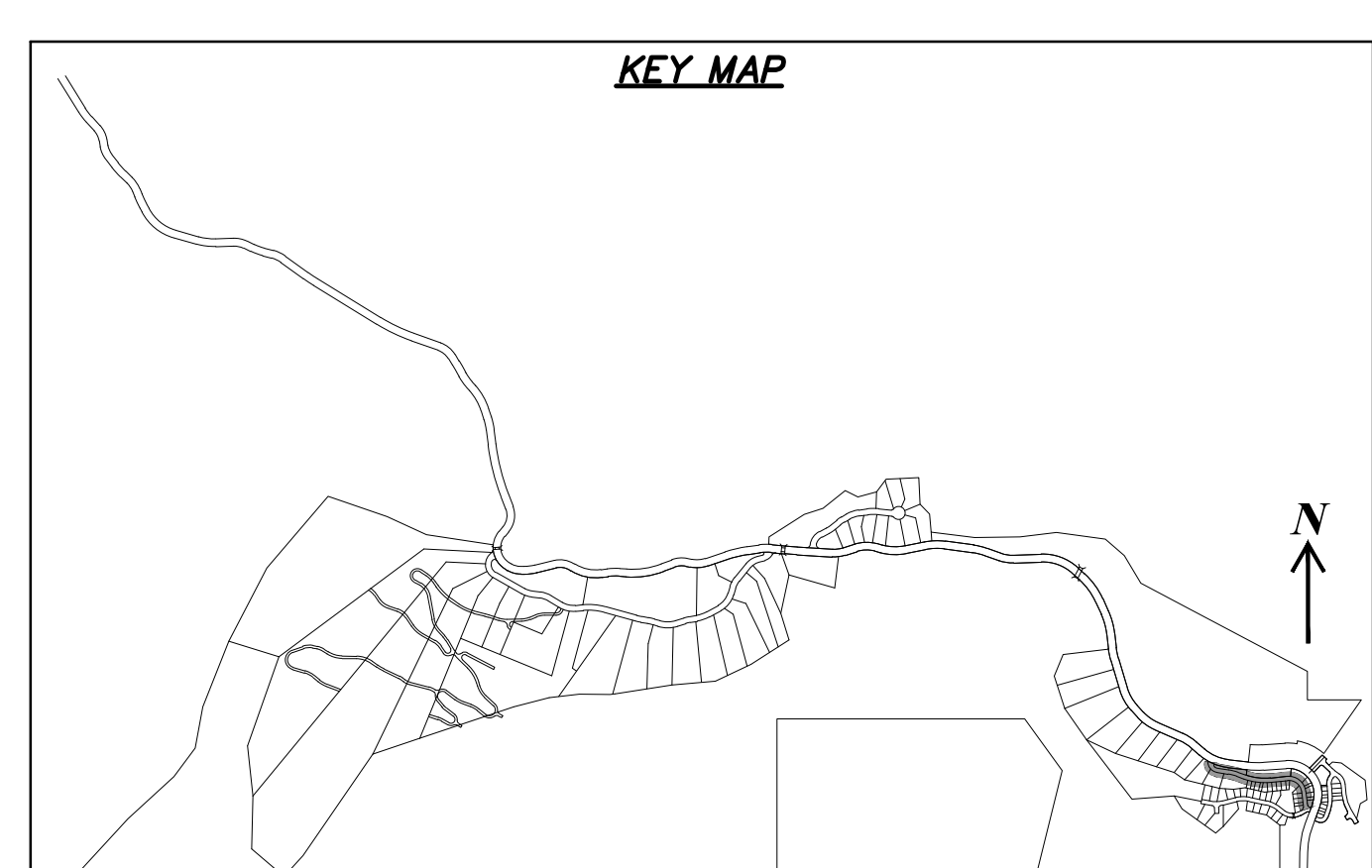
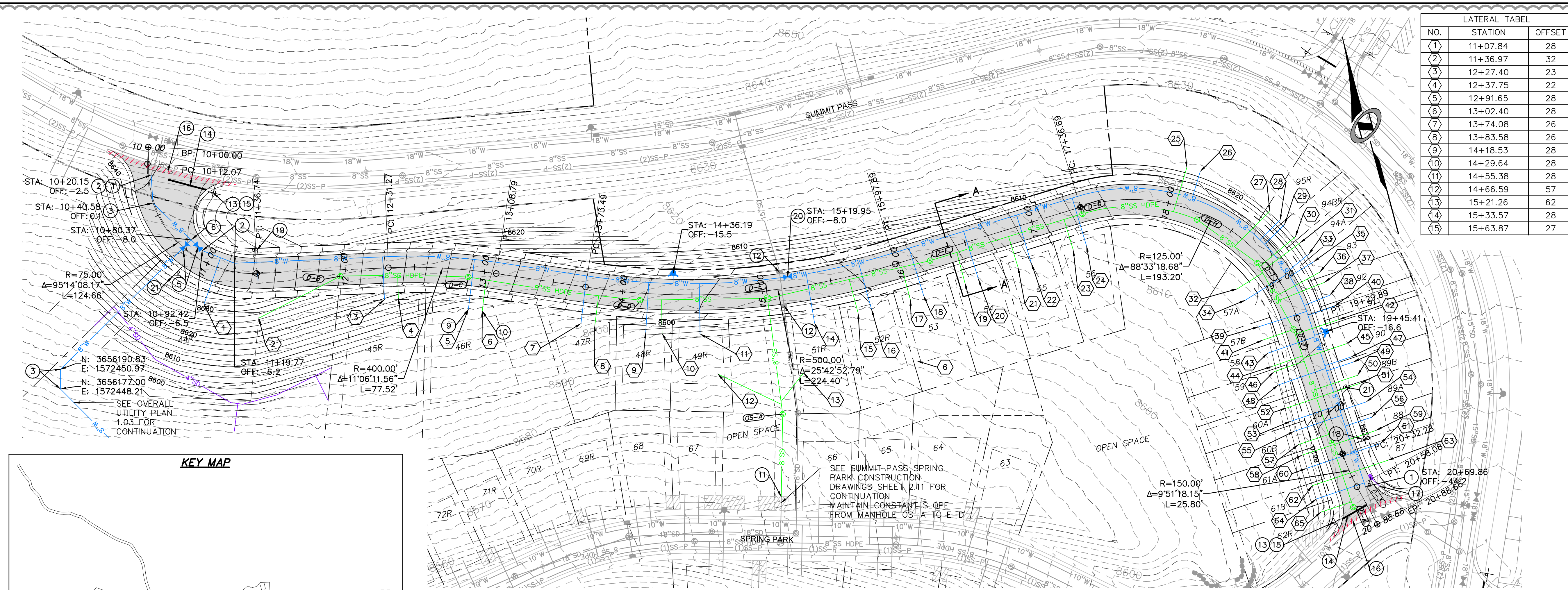
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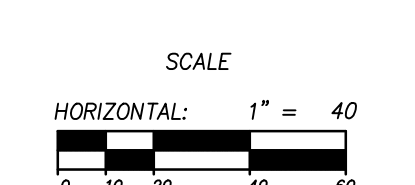
JOB NUMBER
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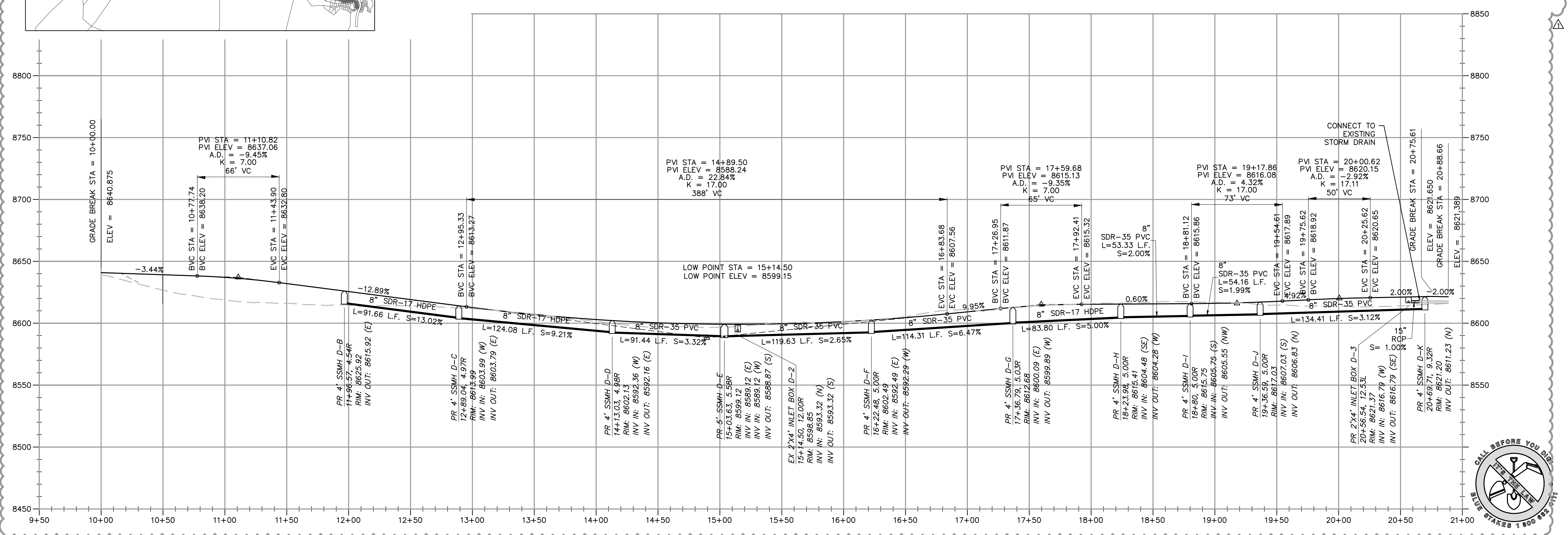


COPPER CREST ROAD
 STA: 10+00.00 TO 20+88.66



LATERAL TABLE		
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2	11+36.97	32
3	12+27.40	23
4	12+37.75	22
5	12+91.65	28
6	13+02.40	28
7	13+74.08	26
8	13+83.58	26
9	14+18.53	28
10	14+29.64	28
11	14+55.38	28
12	14+66.59	57
13	15+21.26	62
14	15+33.57	28
15	15+63.87	27

16	15+73.36	27
17	16+00.64	28
18	16+10.64	28
19	16+41.59	28
20	16+51.59	28
21	16+81.22	28
22	16+91.22	29
23	17+22.67	28
24	17+32.67	28
25	18+06.59	-28
26	18+14.76	-28
27	18+61.79	-28
28	18+69.94	-28
29	18+73.65	-28
30	18+83.16	-28
31	18+87.76	-28
32	18+85.54	28
33	18+96.00	-28
34	18+98.46	28
35	19+01.30	-28
36	19+08.34	-28
37	19+14.95	-28
38	19+23.13	-28
39	19+25.98	28
40	19+30.21	-28
41	19+36.85	28
42	19+40.21	-28
43	19+46.85	28
44	19+56.85	28
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62	20+44.65	-28
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65	20+61.82	31



REVISIONS:
 NO. BY DATE
 1 RMC 5/27/2014 LOW F. DESIGN

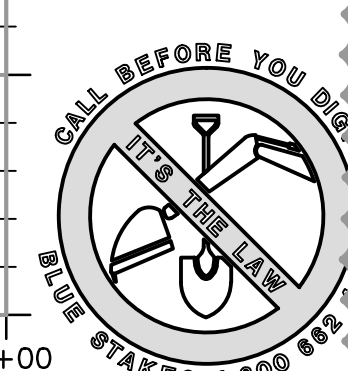
SUMMIT EDEN PHASE 1C
PLAN AND PROFILE
COPPER CREST ROAD

PREPARED FOR: SUMMIT, LLC
 DATE SUBMITTED: 12/17/2013

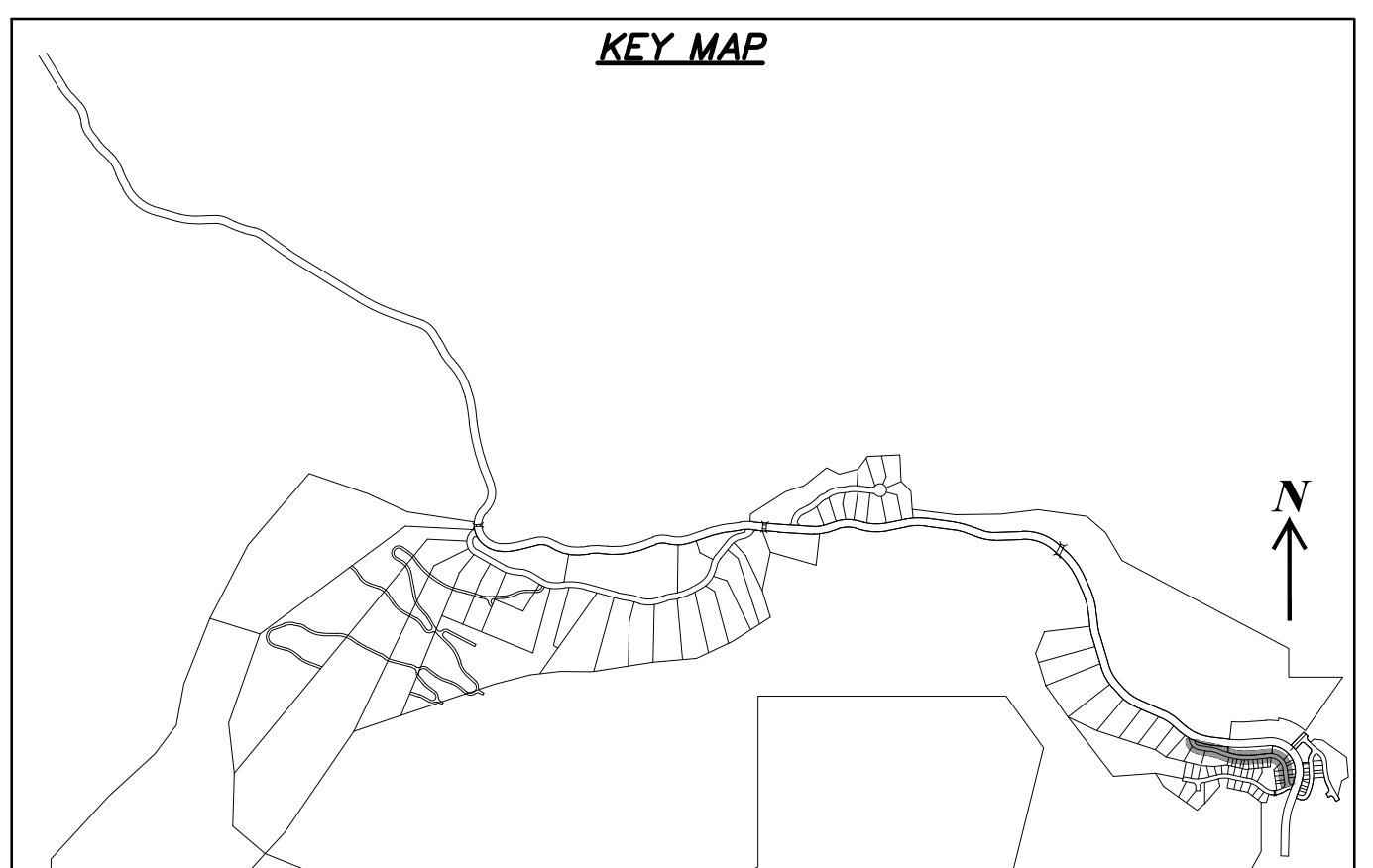
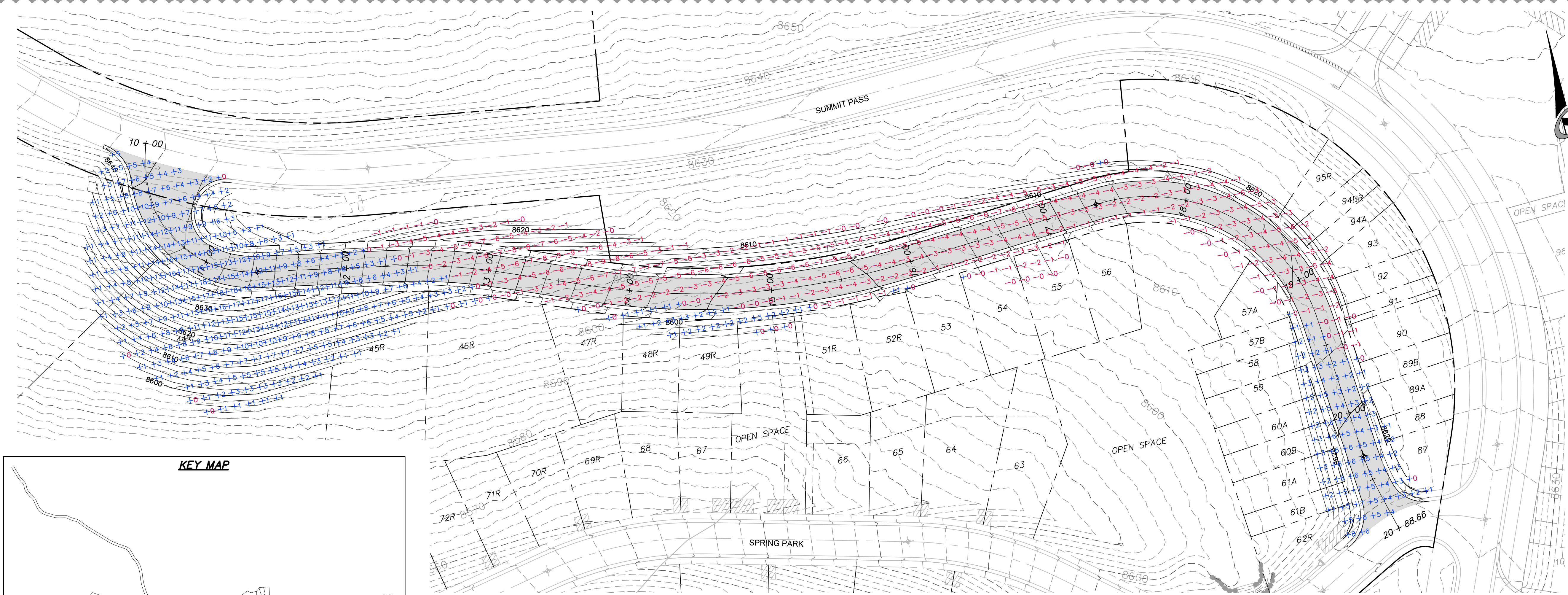
NV5
 BEYOND ENGINEERING
 627 SOUTH STATE STREET, SUITE 200
 MURRAY, UT 84177
 WWW.NV5.COM

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

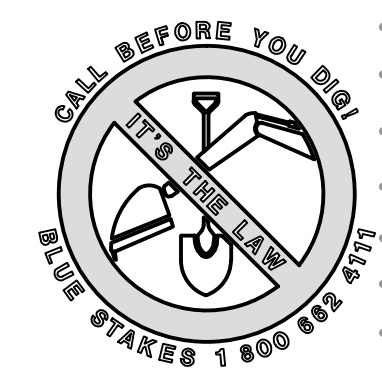
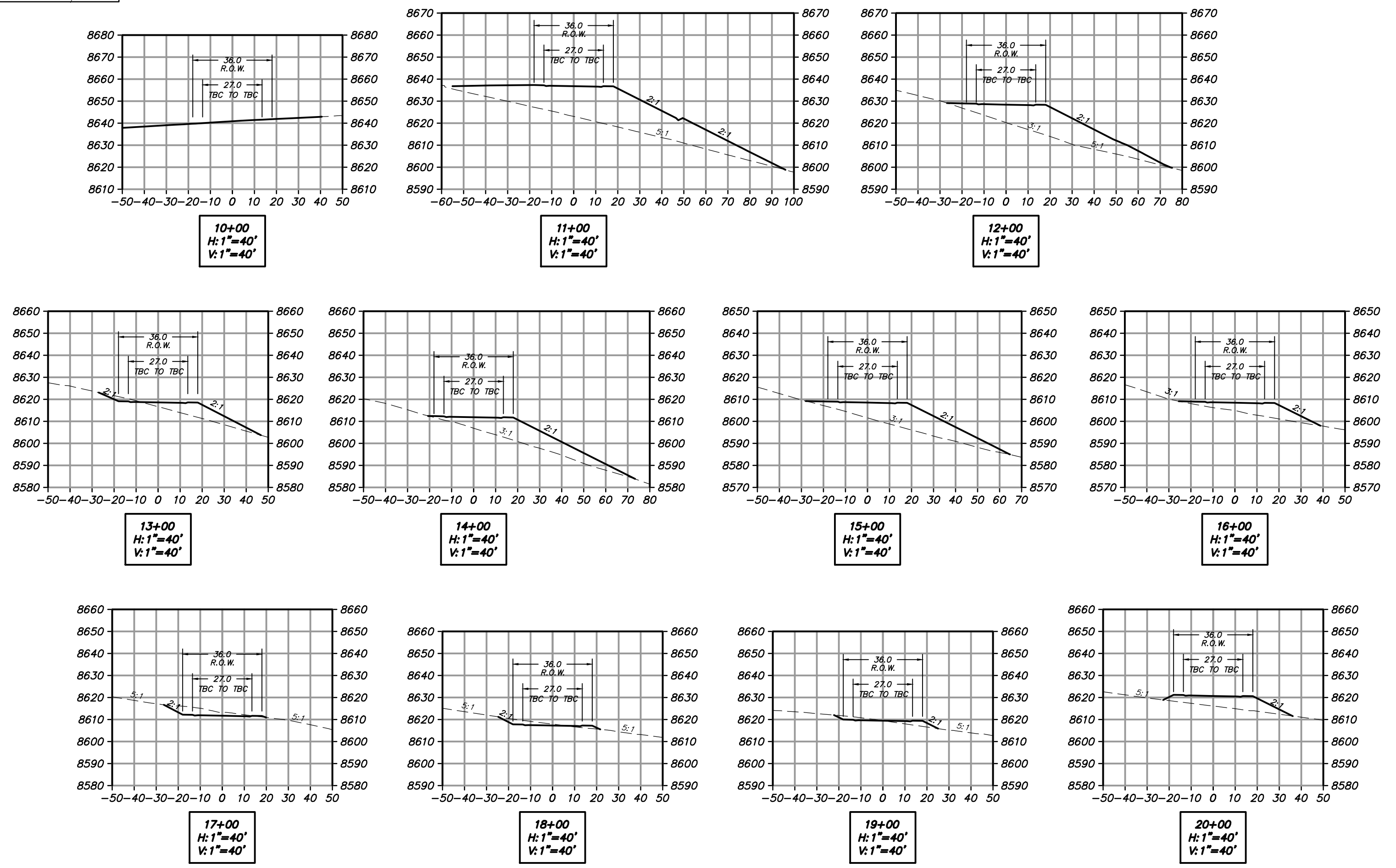
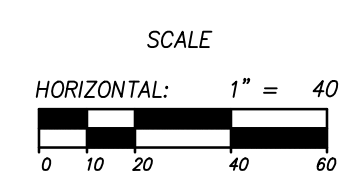
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2.00
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 HORIZONTAL: 1" = 40'
 JOB NUMBER
SLB079306



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COPPER CREST ROAD
 STA: 10+00.00 TO 20+88.66



NO.	DATE	BY	REVISIONS
1	5/27/2014	RMC	LOW F. DESIGN

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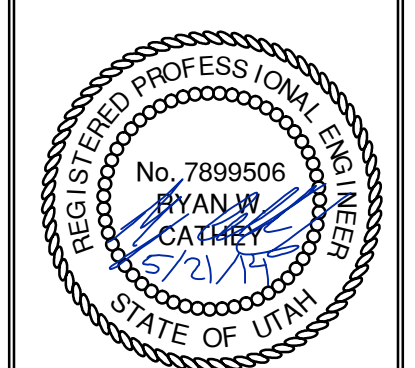
SUMMIT EDEN PHASE 1C
EARTHWORK AND SECTIONS
COPPER CREST ROAD

DATE SUBMITTED: 12/17/2013

PREPARED FOR: SUMMIT, LLC



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



SHEET NUMBER
3.00

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

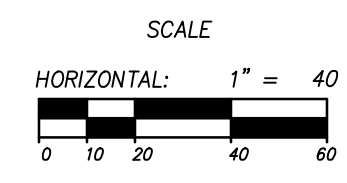
JOB NUMBER
SLB079306

BOWDEN
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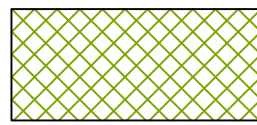
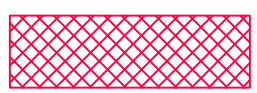




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COPPER CREST ROAD
 STA: 10+00.00 TO 20+88.66



LEGEND

-  HATCHING INDICATES AREAS TO RECEIVE 4" TOPSOIL AND TO BE SEEDED FOR NATURAL VEGETATION*. AREAS RECEIVING SEEDING FOR NATURAL VEGETATION MUST BE COVERED WITH AN EROSION CONTROL BLANKET AFTER THE FINAL GRADING AND SEEDING ARE FINISHED. INSTALL 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.

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



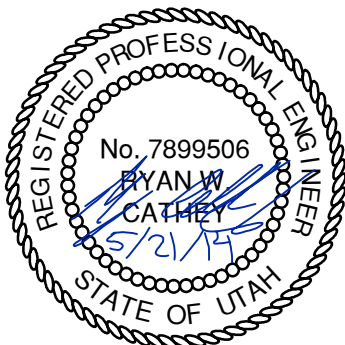
NO.	BY	DATE	REVISIONS
1	RMC	5/27/2014	LOW K DESIGN

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

SUMMIT EDEN PHASE 1C
EROSION CONTROL PLAN
COPPER CREST ROAD

PREPARED FOR: SUMMIT, LLC DATE SUBMITTED: 12/17/2013

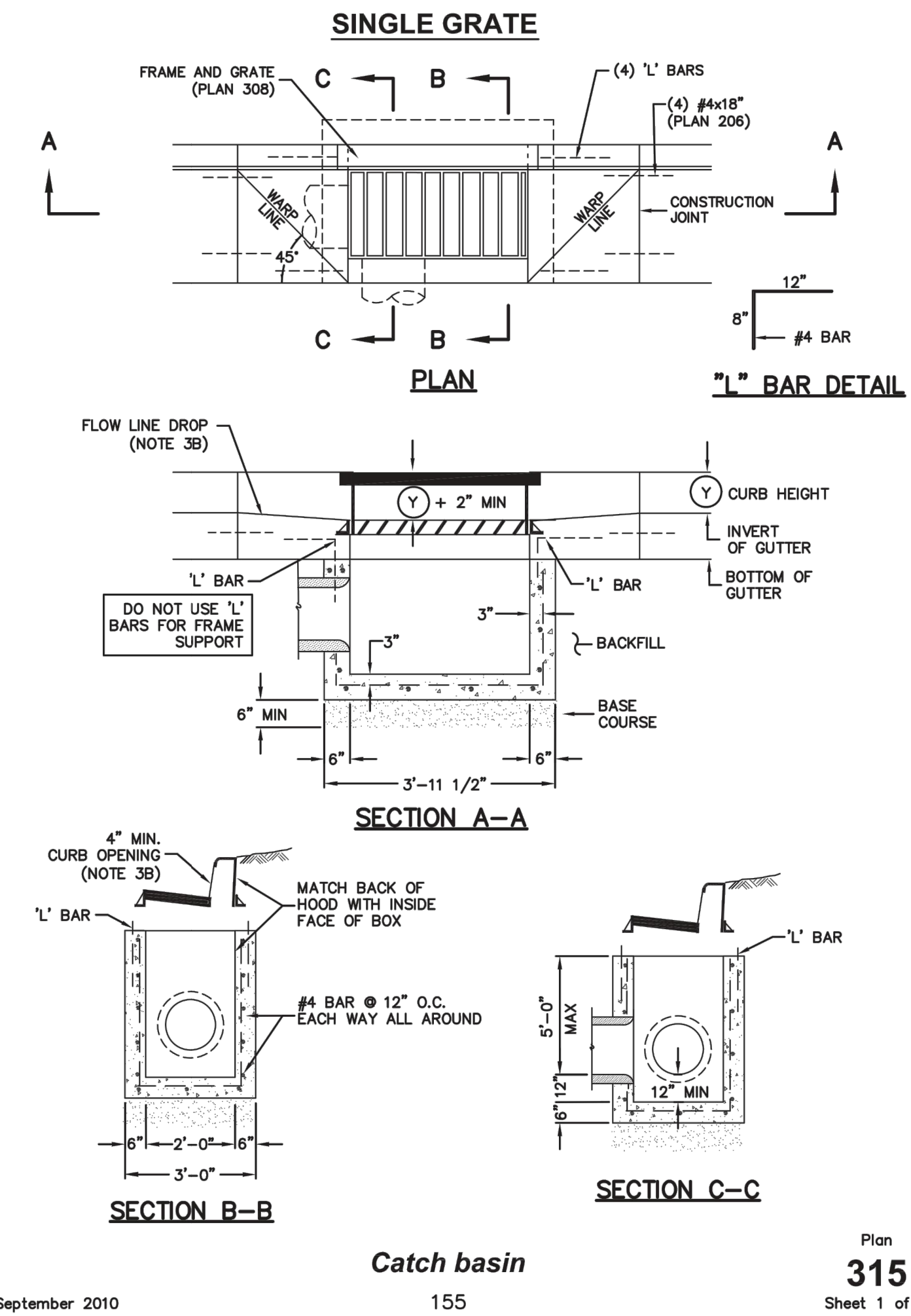
NV5
 BEYOND ENGINEERING
 527 SOUTH STATE STREET, SUITE 200
 801743.000 TEL 801743.000 FAX
 MURRAY, UT 84107
 WWW.NV5.COM



SHEET NUMBER
4.00

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

JOB NUMBER
SLB079306



Plan
315
Sheet 1 of 2

SUMMIT EDEN PHASE 1C
STORM DRAIN DETAILS

NO.	BY	DATE	REVISIONS
1	RMC	5/27/2014	LOW T. DESIGN

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: 12/17/2013

PREPARED FOR: SUMMIT, LLC

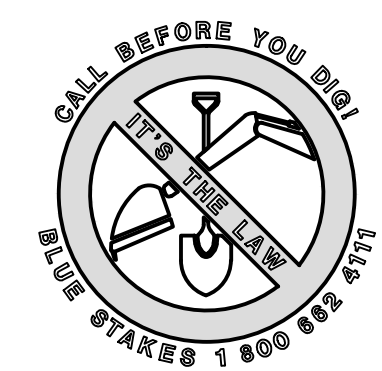
NV5
BEYOND ENGINEERING
5217 SOUTH STATE STREET, SUITE 200
MURRAY, UT 84107
801.743.0300 TEL. 801.743.0300 FAX
WWW.NV5.COM

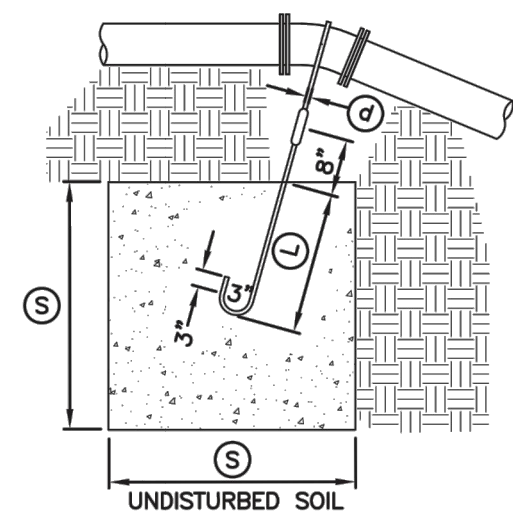
REGISTERED PROFESSIONAL ENGINEER
No. 7899506
BYAN W. CATHEY
5/21/14
STATE OF UTAH

SHEET NUMBER
5.00

SCALE
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HORIZONTAL: 1" = N/A

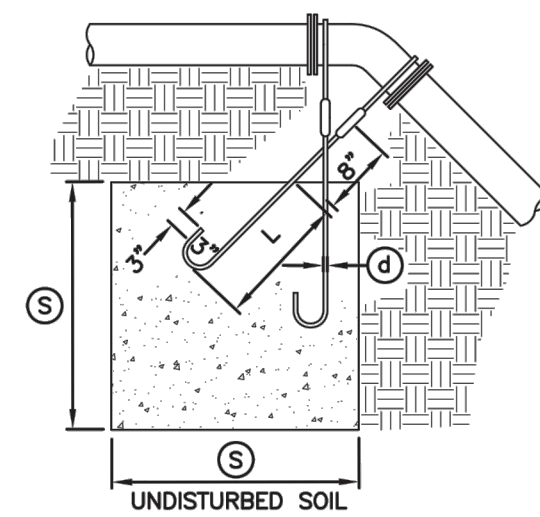
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SLB079306





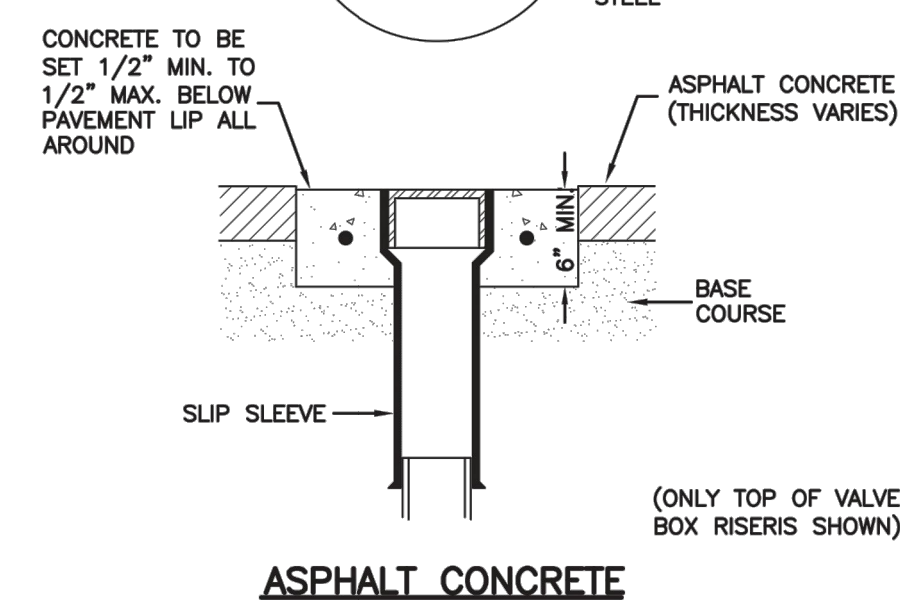
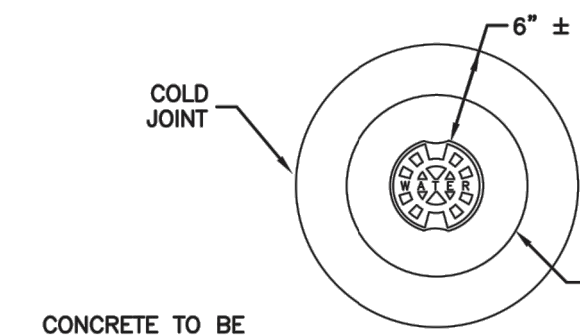
TYPE A RESTRAINT
 FOR 11 1/4" - 22 1/2" VERTICAL BENDS

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

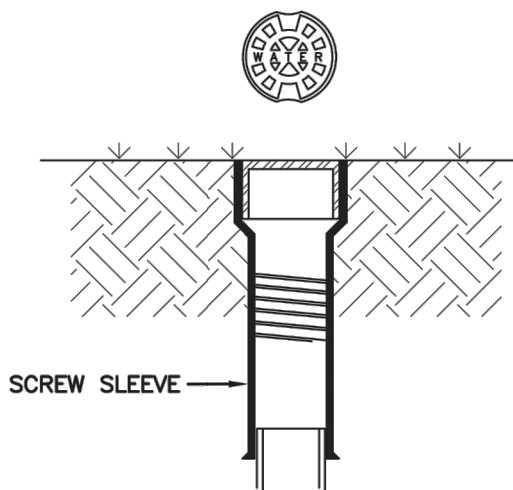
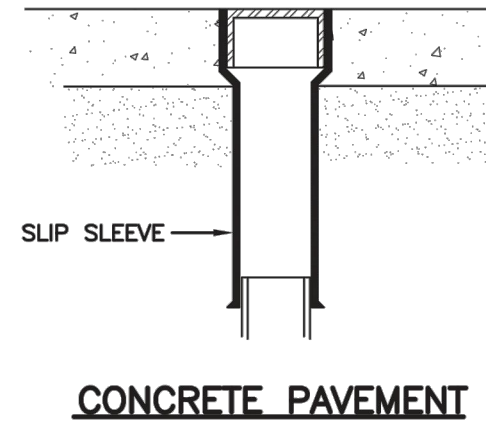


TYPE B RESTRAINT
 FOR 45" VERTICAL BENDS

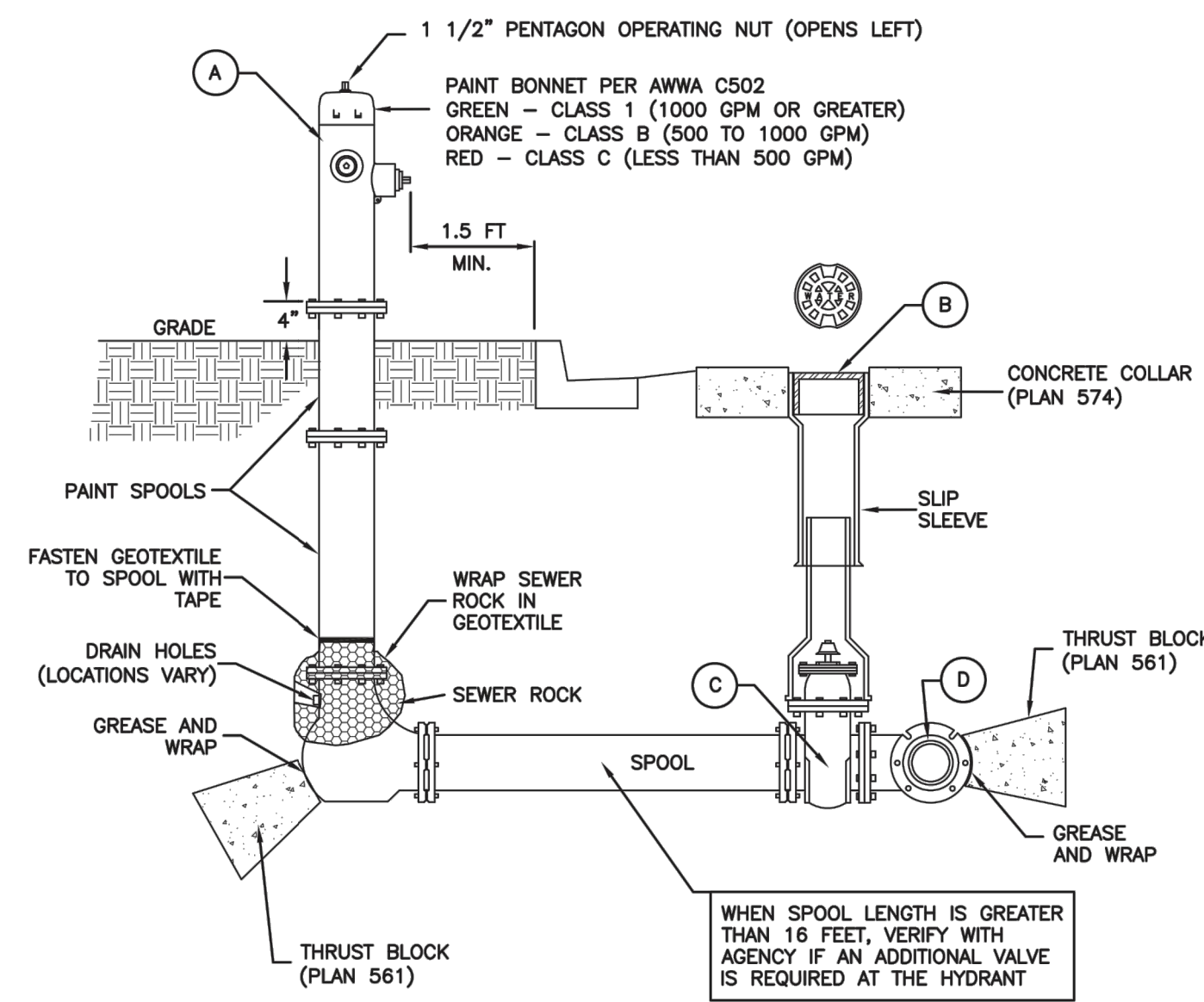
PIPE SIZE NOMINAL DIAMETER - INCH	VERTICAL BEND IN DEGREES	CONCRETE BLOCKING IN CUBIC FEET	SIDE OF CURVE - FEET	DIAMETER OF SHANK OR REBAR RODS - INCH	DEPTH OF ROD CONCRETE - FEET
4"	45"	1	3.0	5/8"	2.0
6"		2.37	4.0	5/8"	2.5
8"		3.97	4.75	5/8"	3.0
12"		9.04	6.25	5/8"	4.0
16"		17.24	7.75	3/4"	4.0
20"	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



ASPHALT CONCRETE



LANDSCAPED AREA

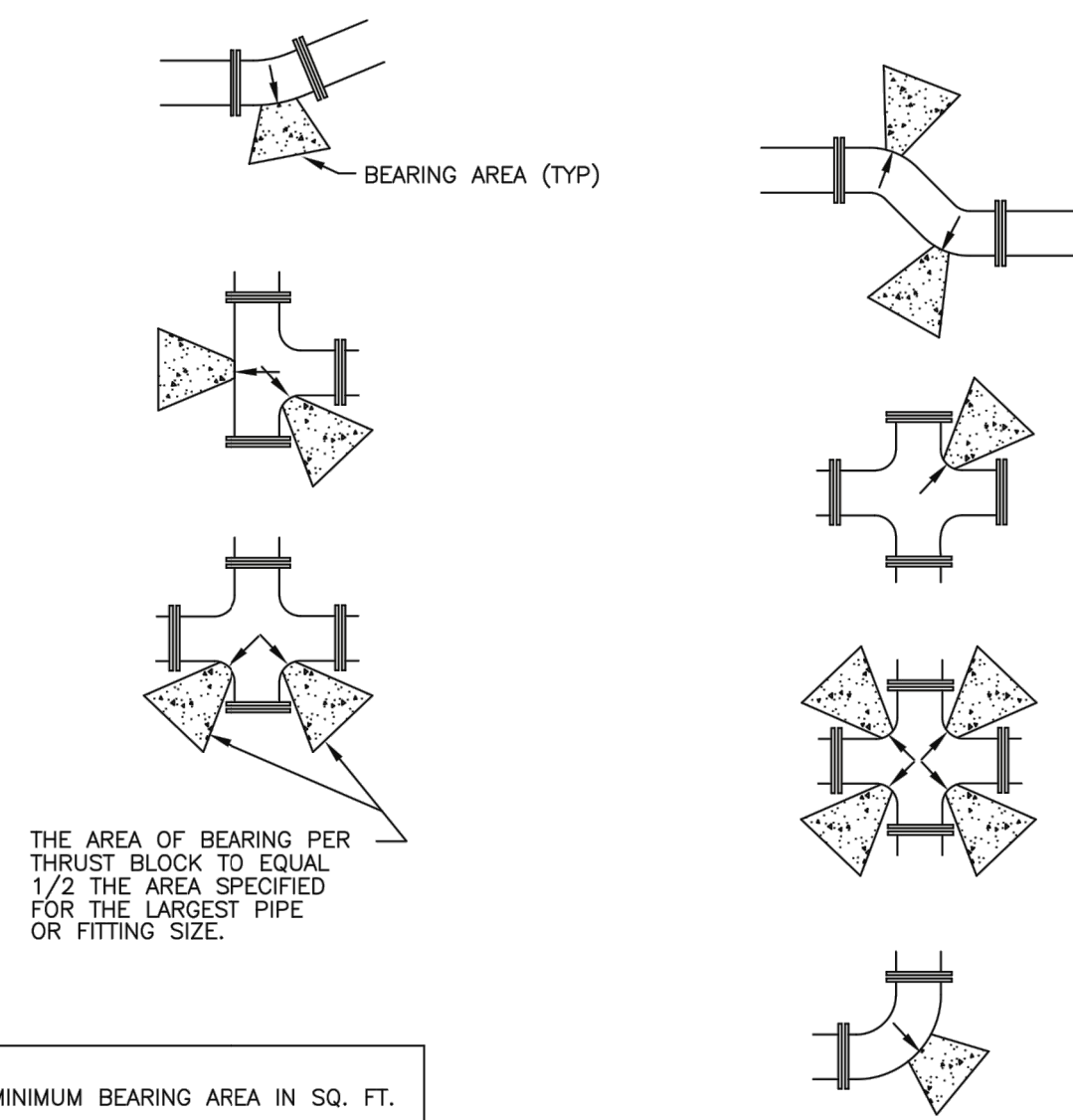


No.	*	ITEM	DESCRIPTION
(A)		FIRE HYDRANT	AWWA C502
(B)		VALVE BOX WITH LID	2-PIECE CAST IRON
(C)		GATE VALVE WITH 2" X 2" NUT	AWWA C509
(D)		TEE WITH 125 # FLANGE	AWWA C110

* FURNISHED BY UTILITY AGENCY

SECTION

Plan 562
 April 1997 269
Tie-down thrust restraints



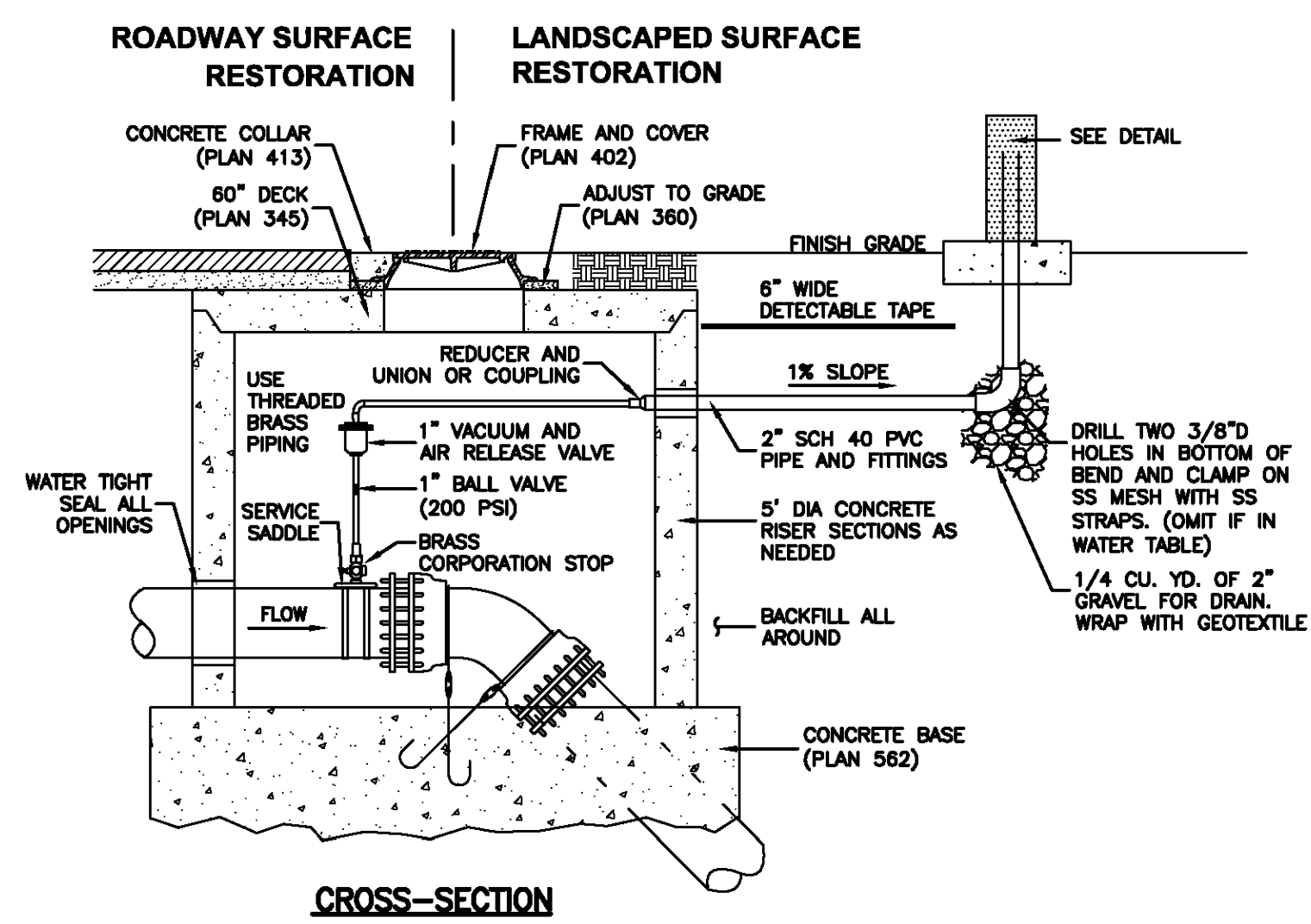
THE AREA OF BEARING PER THRUST BLOCK TO EQUAL 1/2 THE AREA SPECIFIED FOR THE LARGEST PIPE OR FITTING SIZE.

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

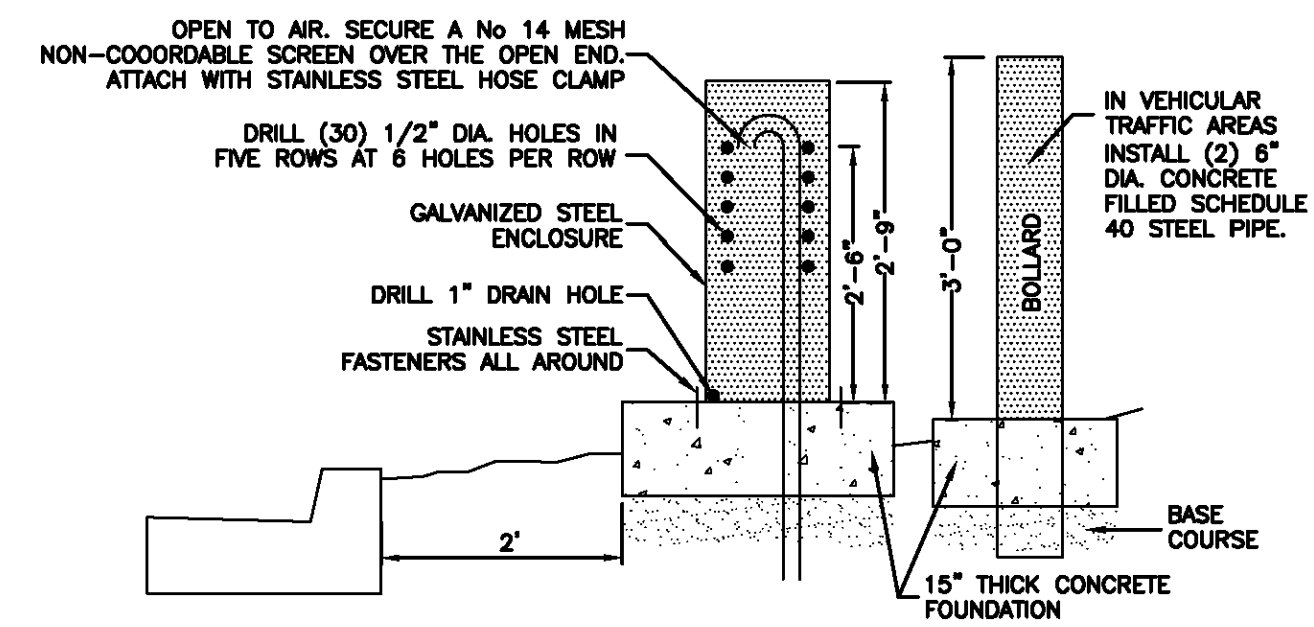
Direct bearing thrust block

April 1997 239

Plan 574
 August 2010 277
Cover collar for water valve box



CROSS-SECTION

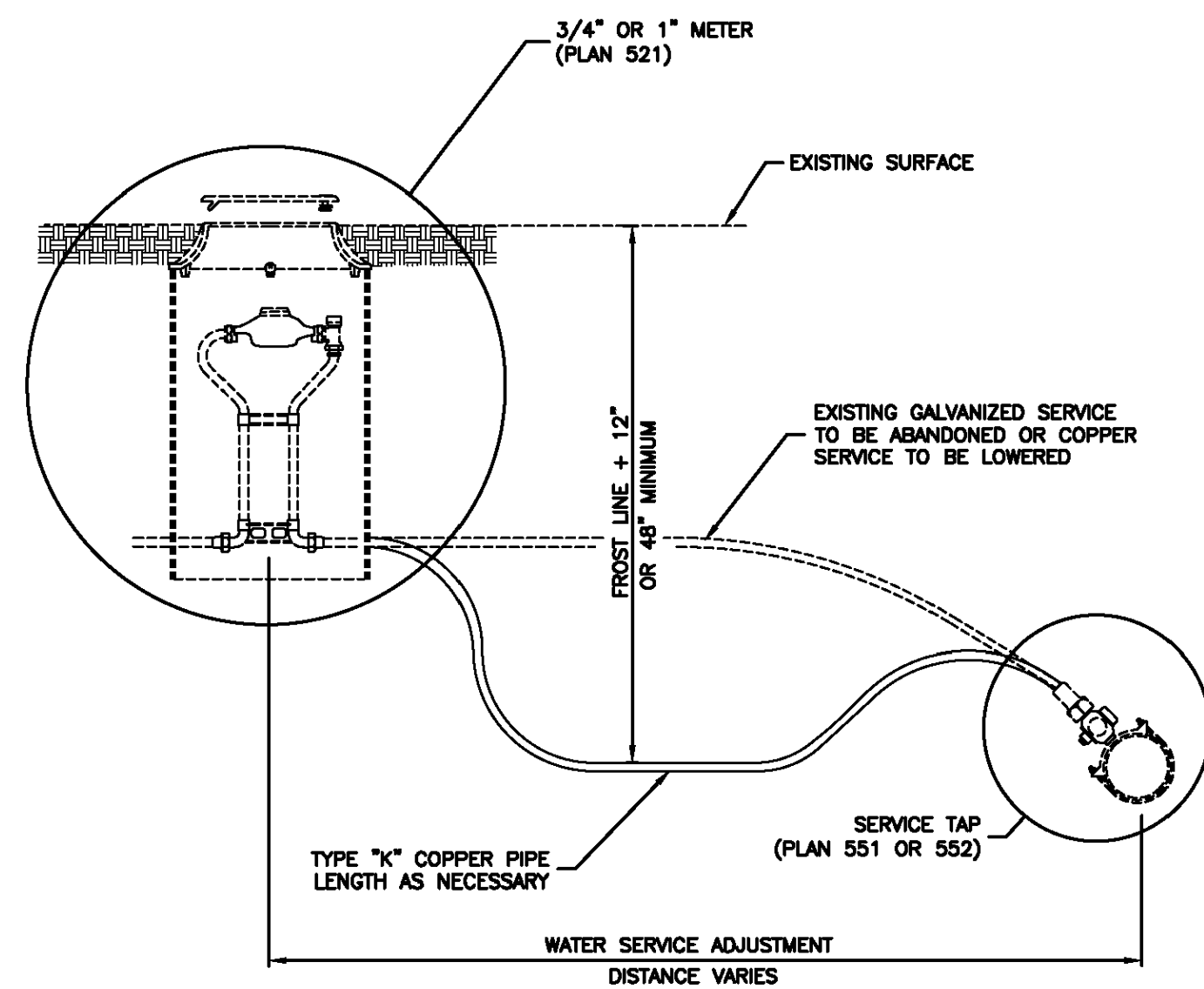


DETAIL

Air release assembly

February 2011 279

Plan 511
 February 2011 237
Fire hydrant with valve



Water service line

August 2001 253

Plan 575
 February 2011 279
Air release assembly

Plan 541
 August 2001 253
Water service line

SUMMIT EDEN PHASE 1C
WATER DETAILS

DATE SUBMITTED: 12/17/2013

PREPARED FOR: SUMMIT, LLC

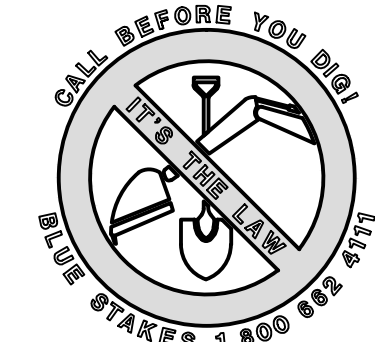
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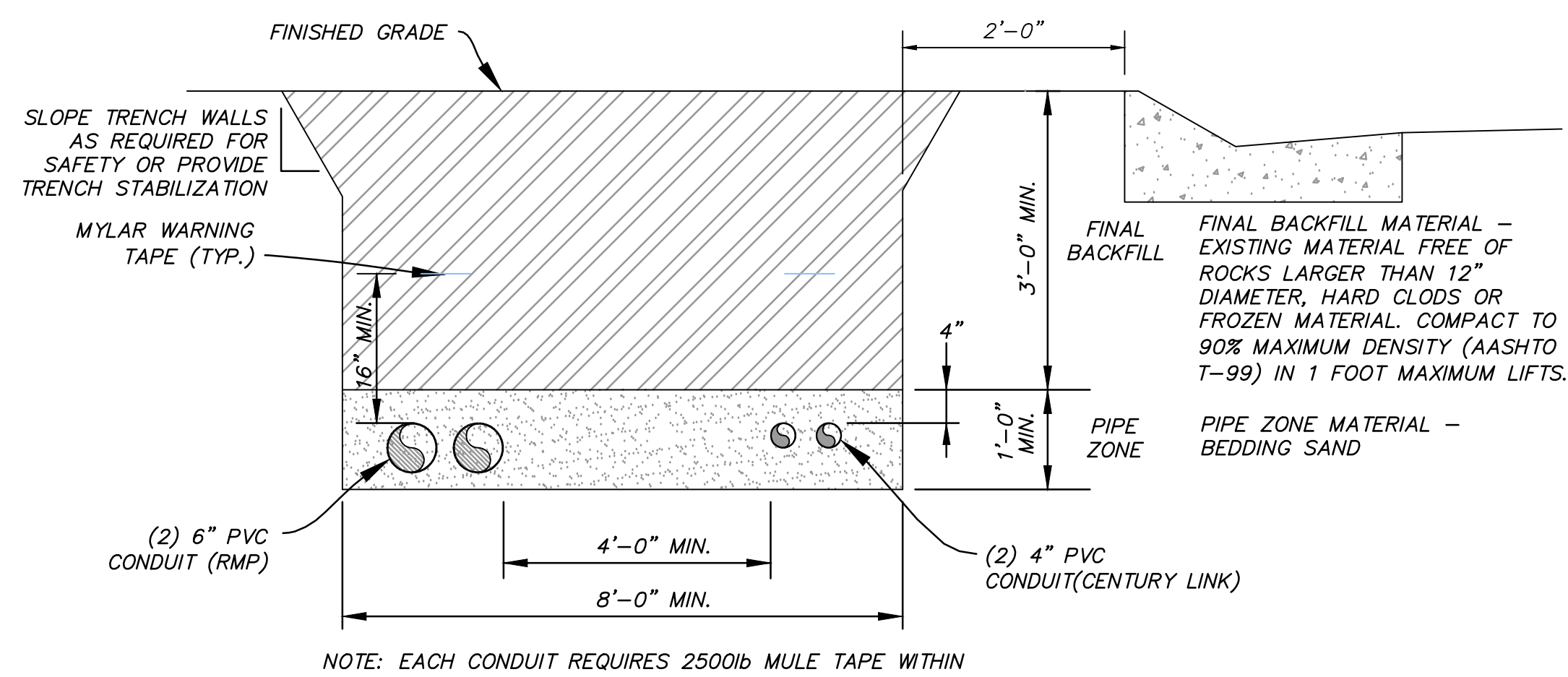
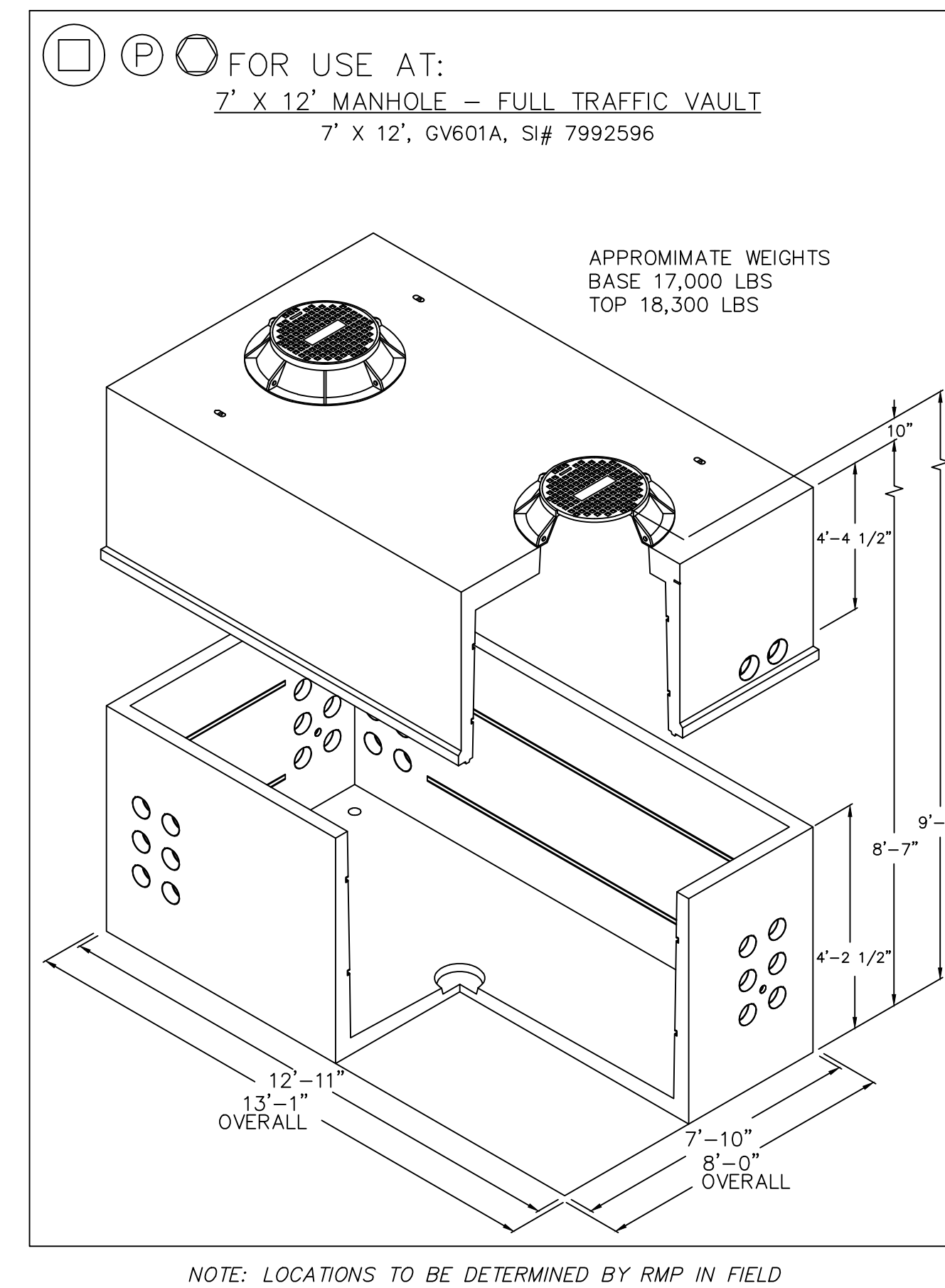
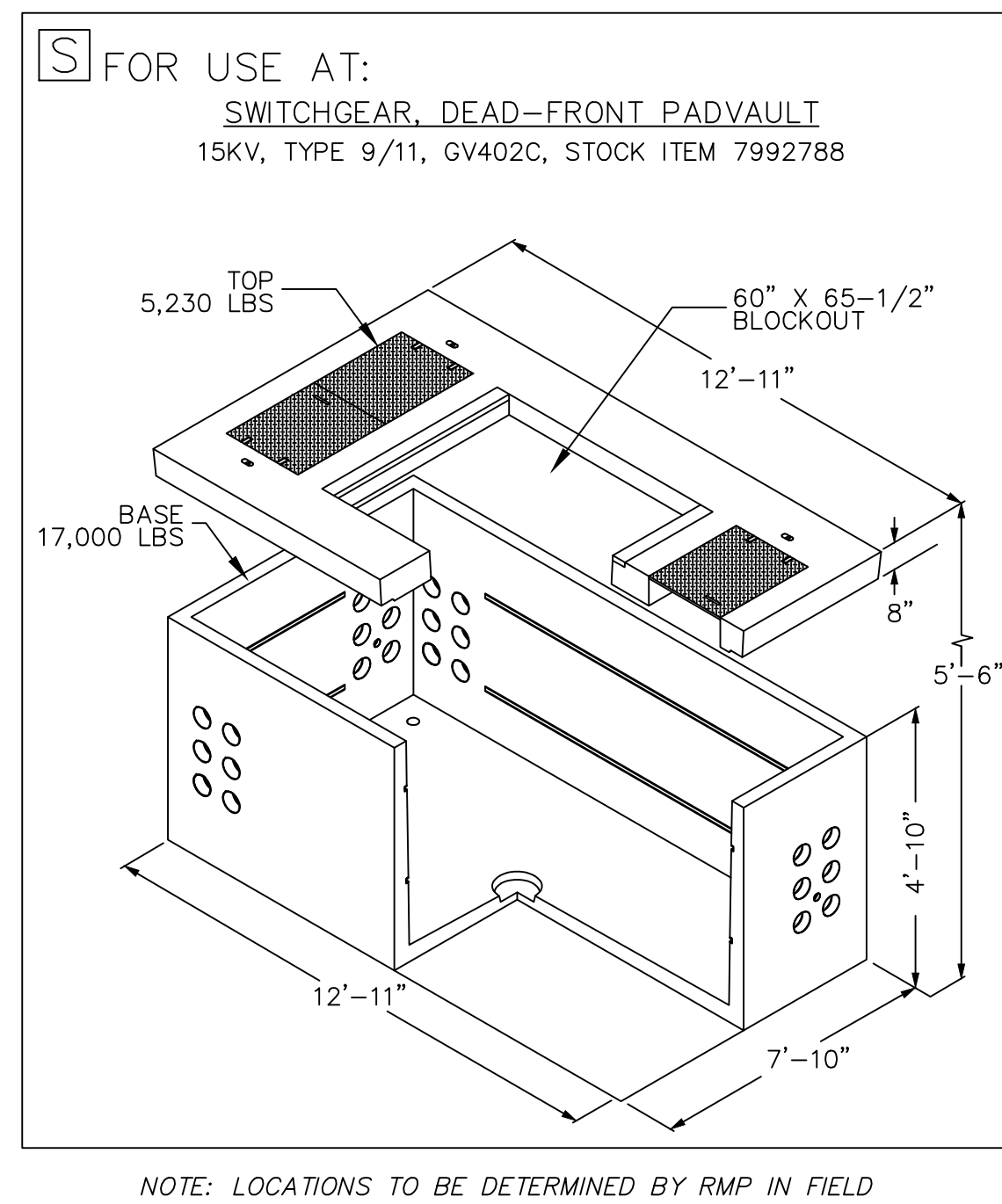
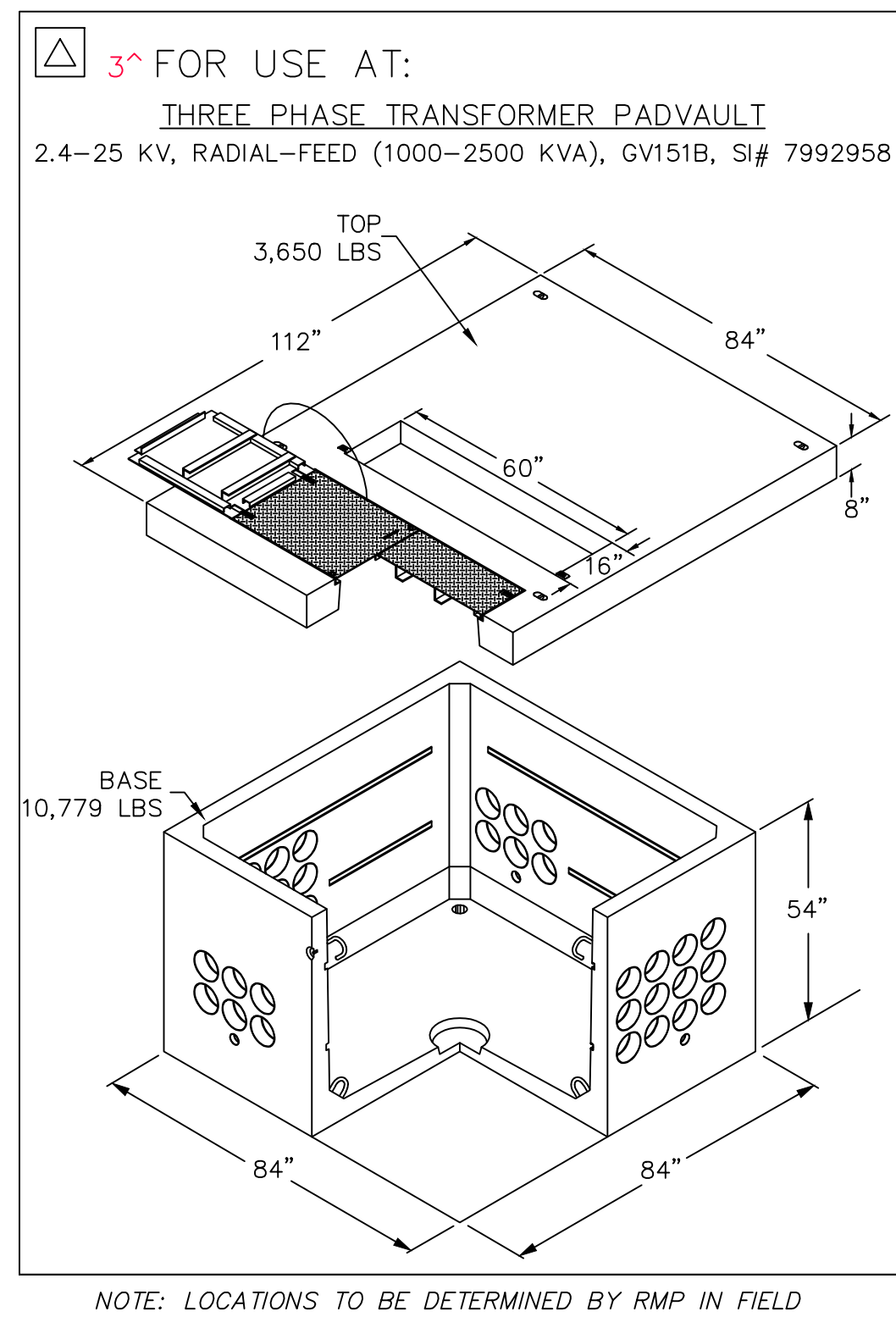
REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 BYAN W. CATHEY
 12/21/13
 STATE OF UTAH

SHEET NUMBER
5.01

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

JOB NUMBER
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POWER CONDUIT TRENCH
 NTS

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SUMMIT EDEN PHASE 1C
ELECTRICAL DETAILS

DATE SUBMITTED: 12/17/2013

PREPARED FOR: SUMMIT, LLC

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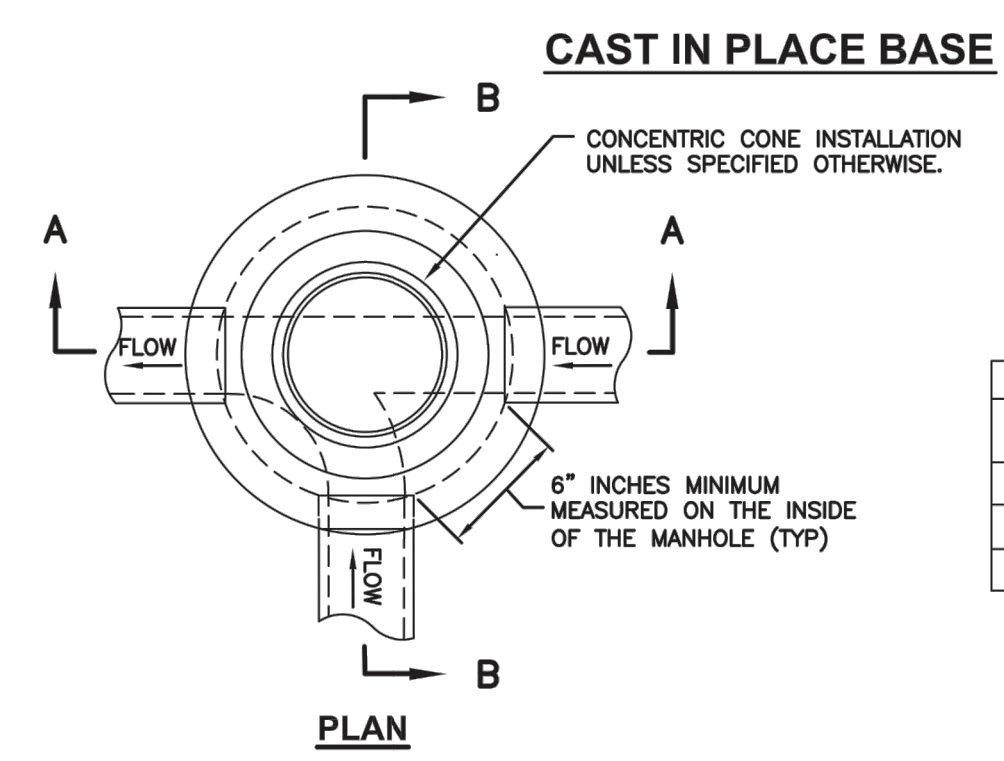
REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 BYAN W. CATHY
 5/21/14
 STATE OF UTAH

SHEET NUMBER
5.10

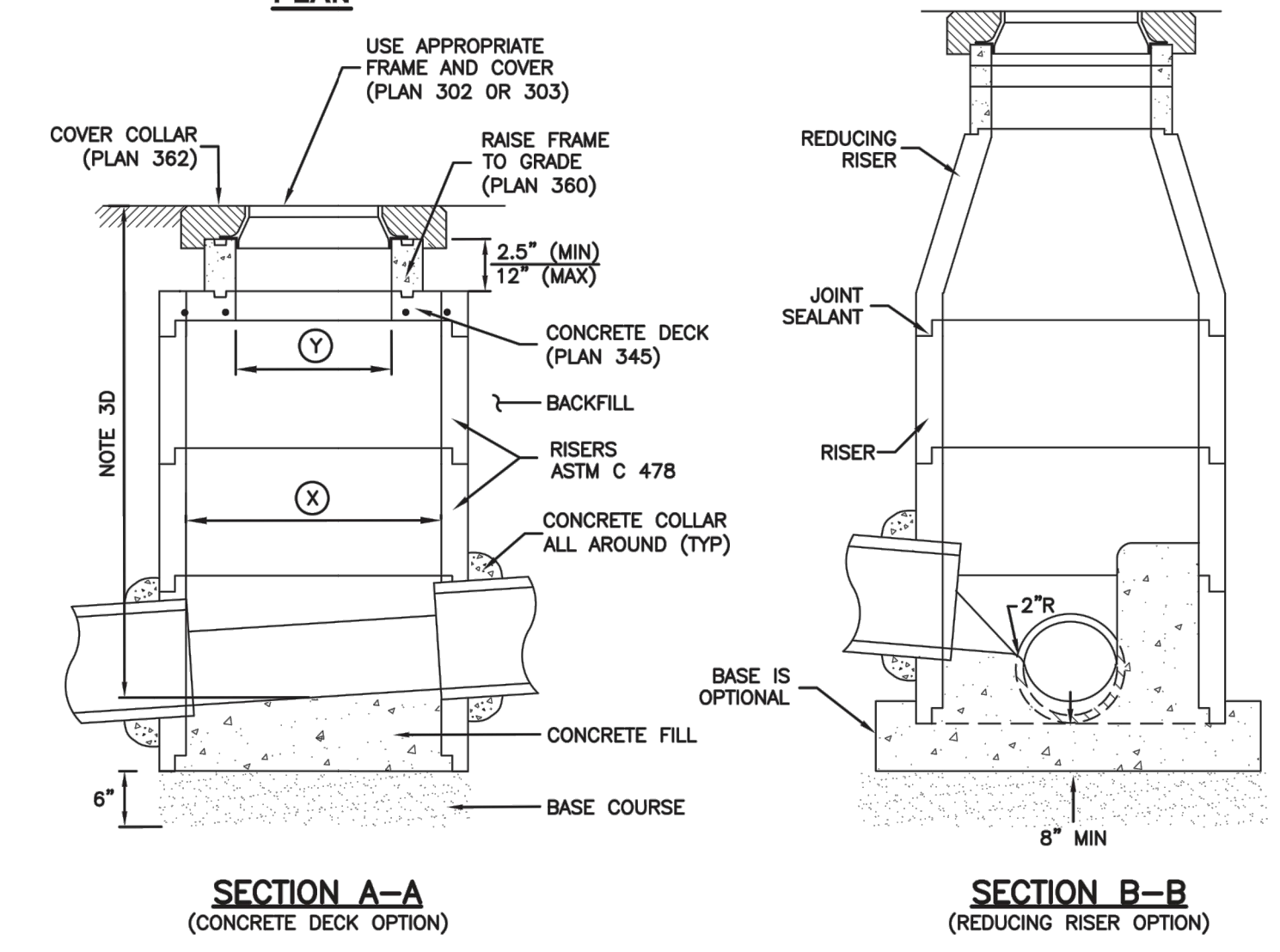
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JOB NUMBER
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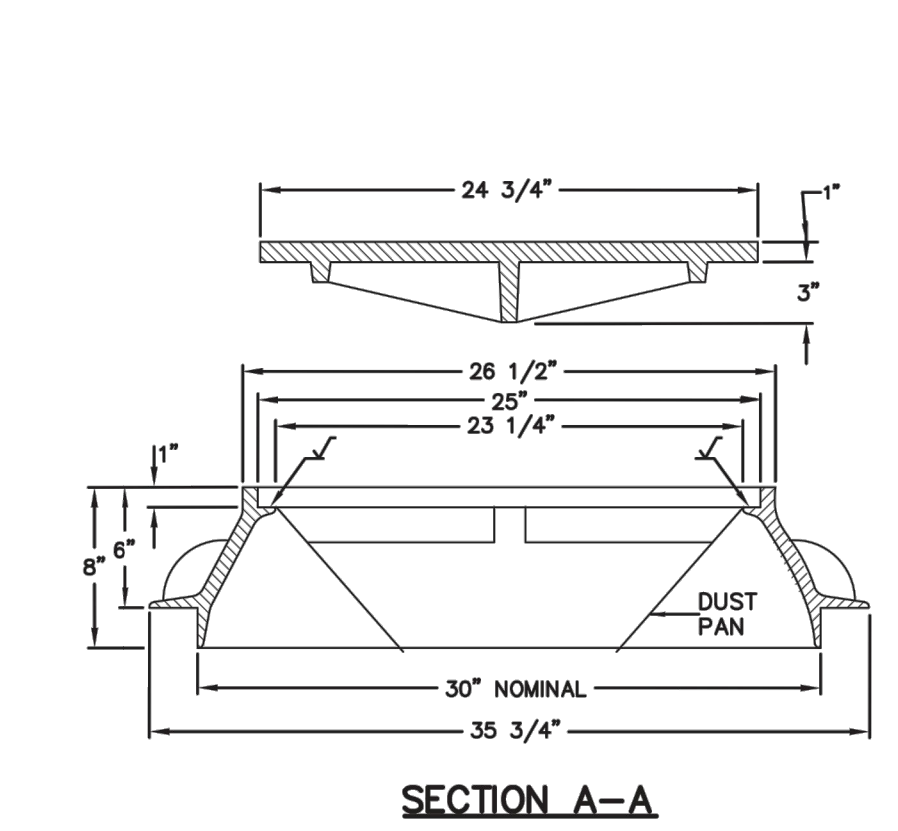
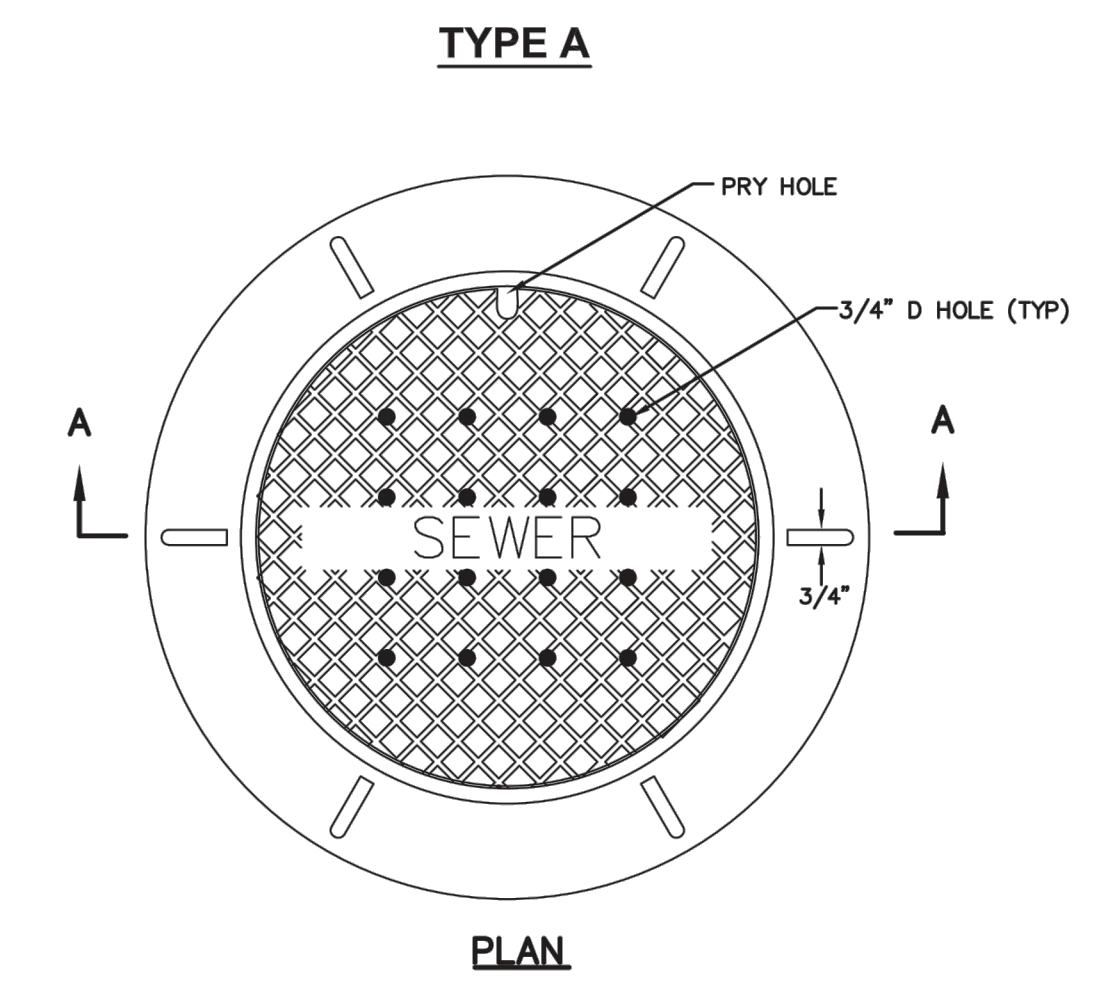




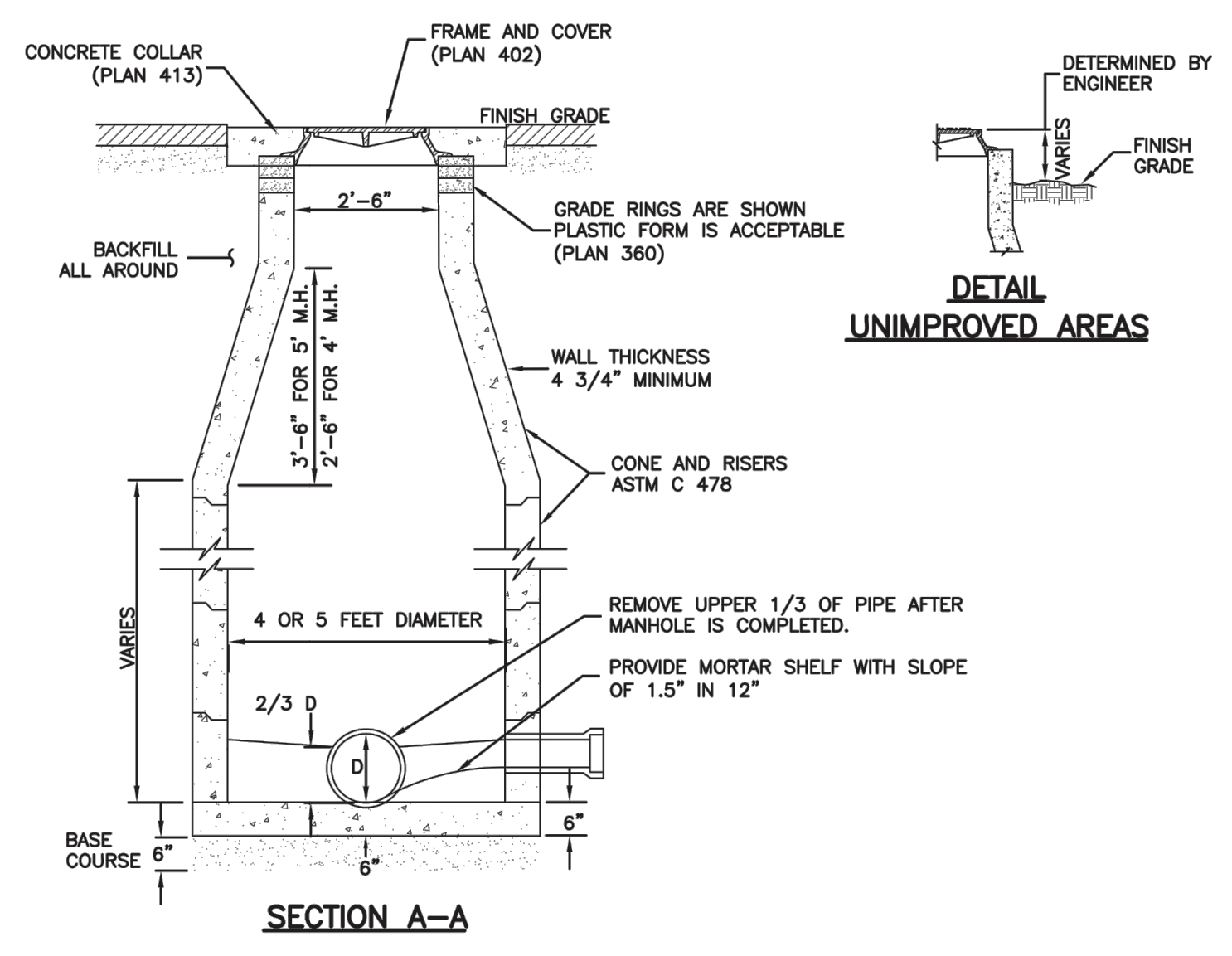
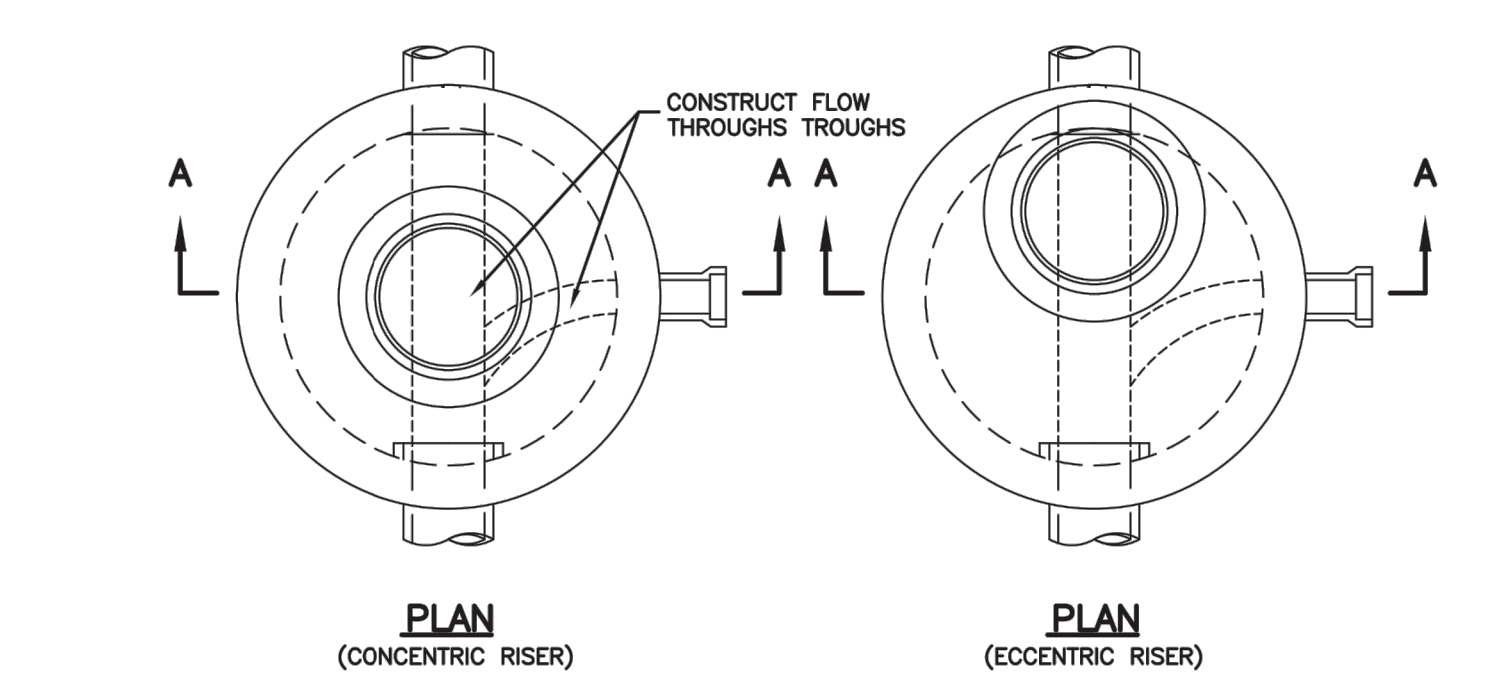
MANHOLE STYLE	DIMENSION	
A	⊗=48" ⊙=30"	
B	⊗=60" ⊙=44"	
C	⊗=60" ⊙=30"	



Precast manhole Plan 341
 November 2010 187 Sheet 1 of 2

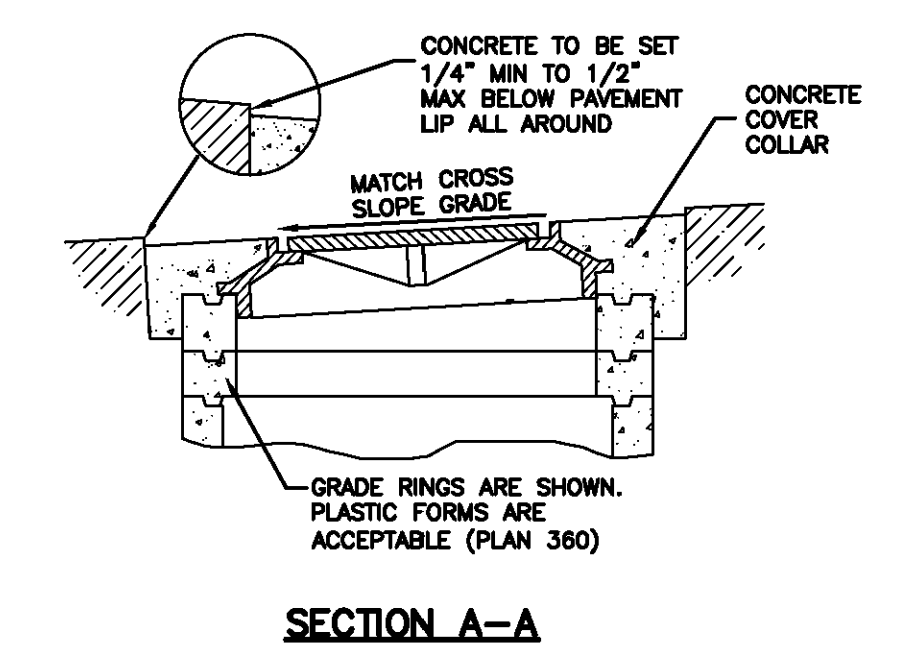
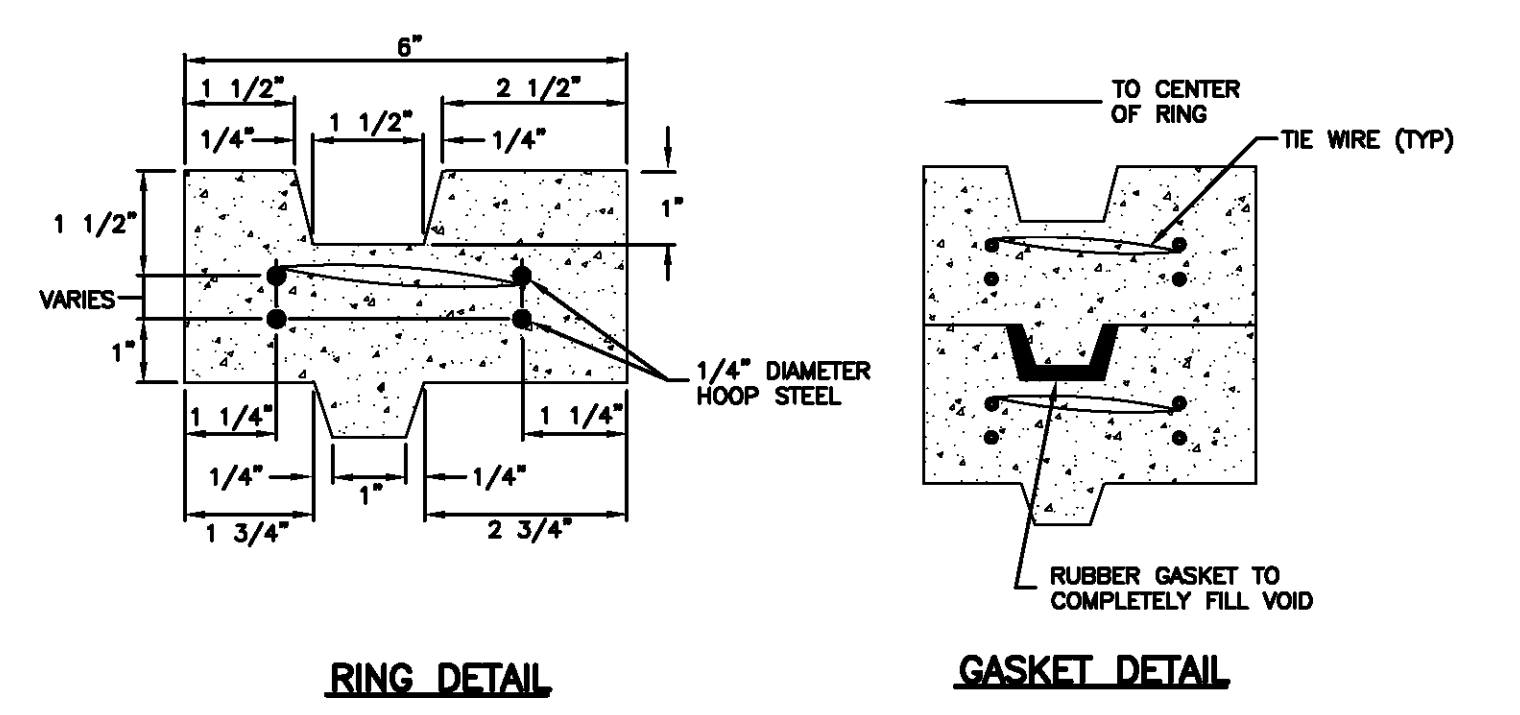
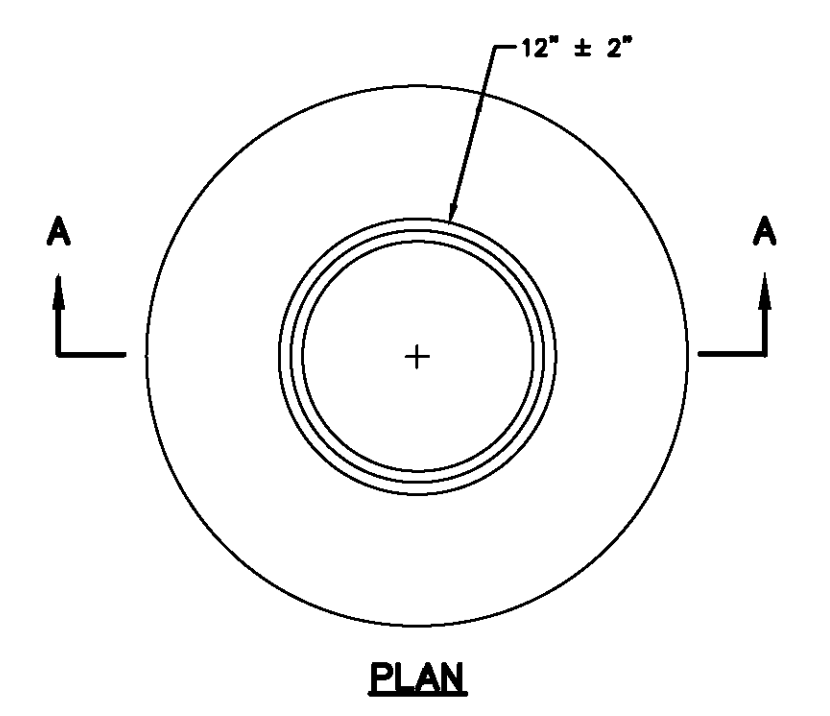
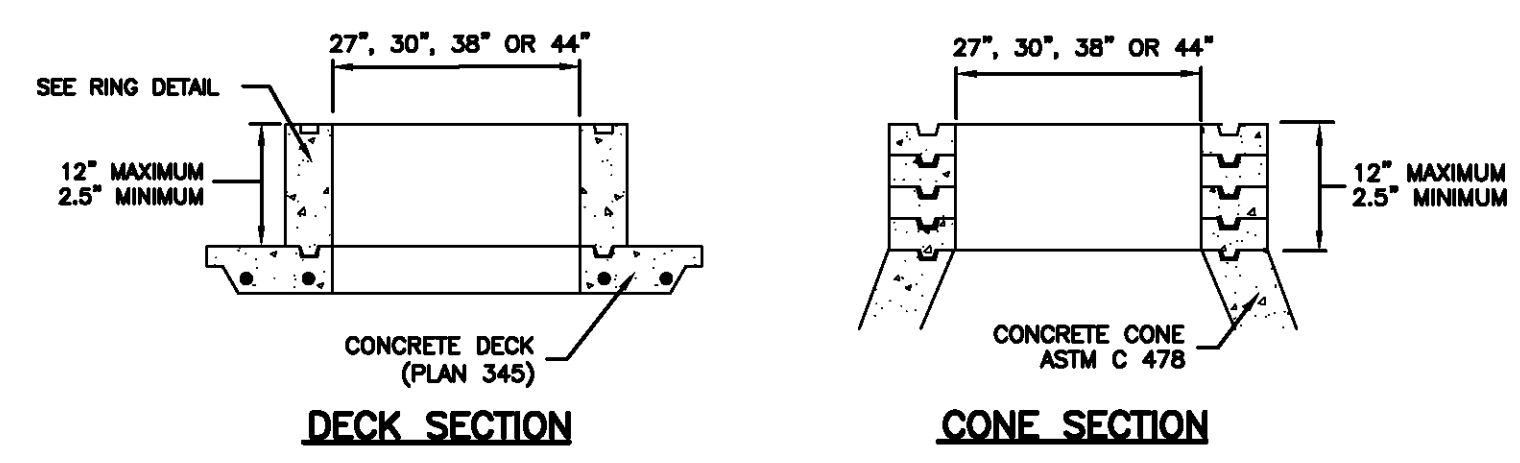


30" Frame and cover Plan 402
 April 1997 211

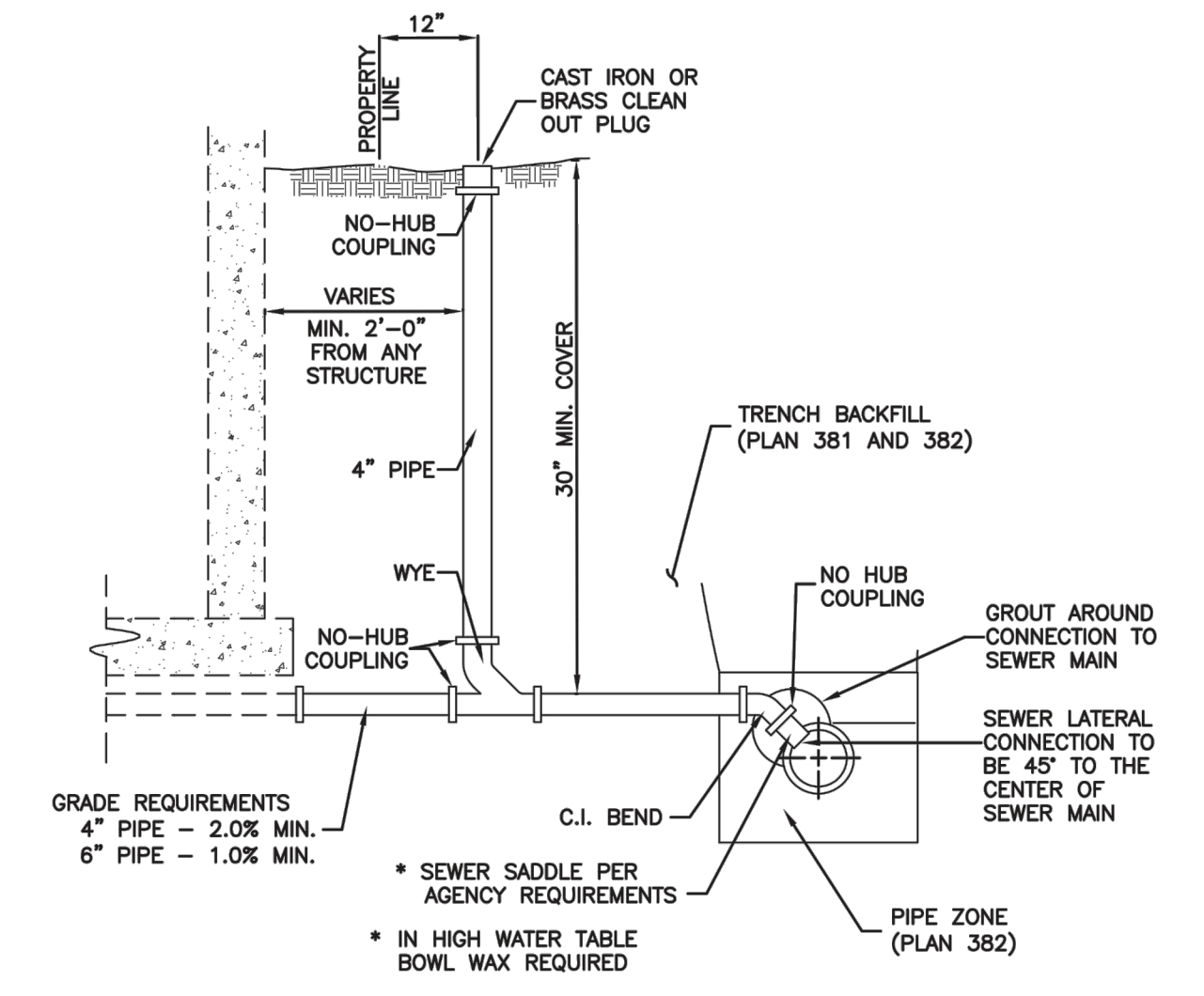


Sanitary sewer manhole Plan 411
 April 2011 213

GRADE RING



Cover collar for sanitary sewer manhole Plan 413
 September 2001 217



Sewer lateral connection Plan 431
 January 2011 219

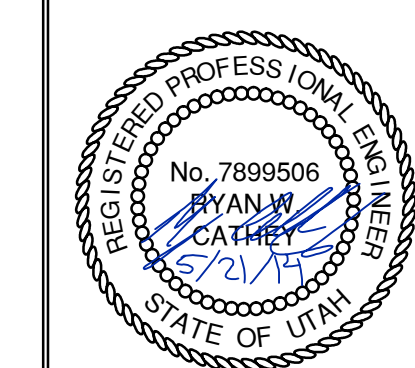
Raise frame to grade Plan 360
 May 2008 193 Sheet 1 of 2

Cover collar for sanitary sewer manhole Plan 413
 September 2001 217

SUMMIT EDEN PHASE 1C
SEWER DETAILS



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SCALE
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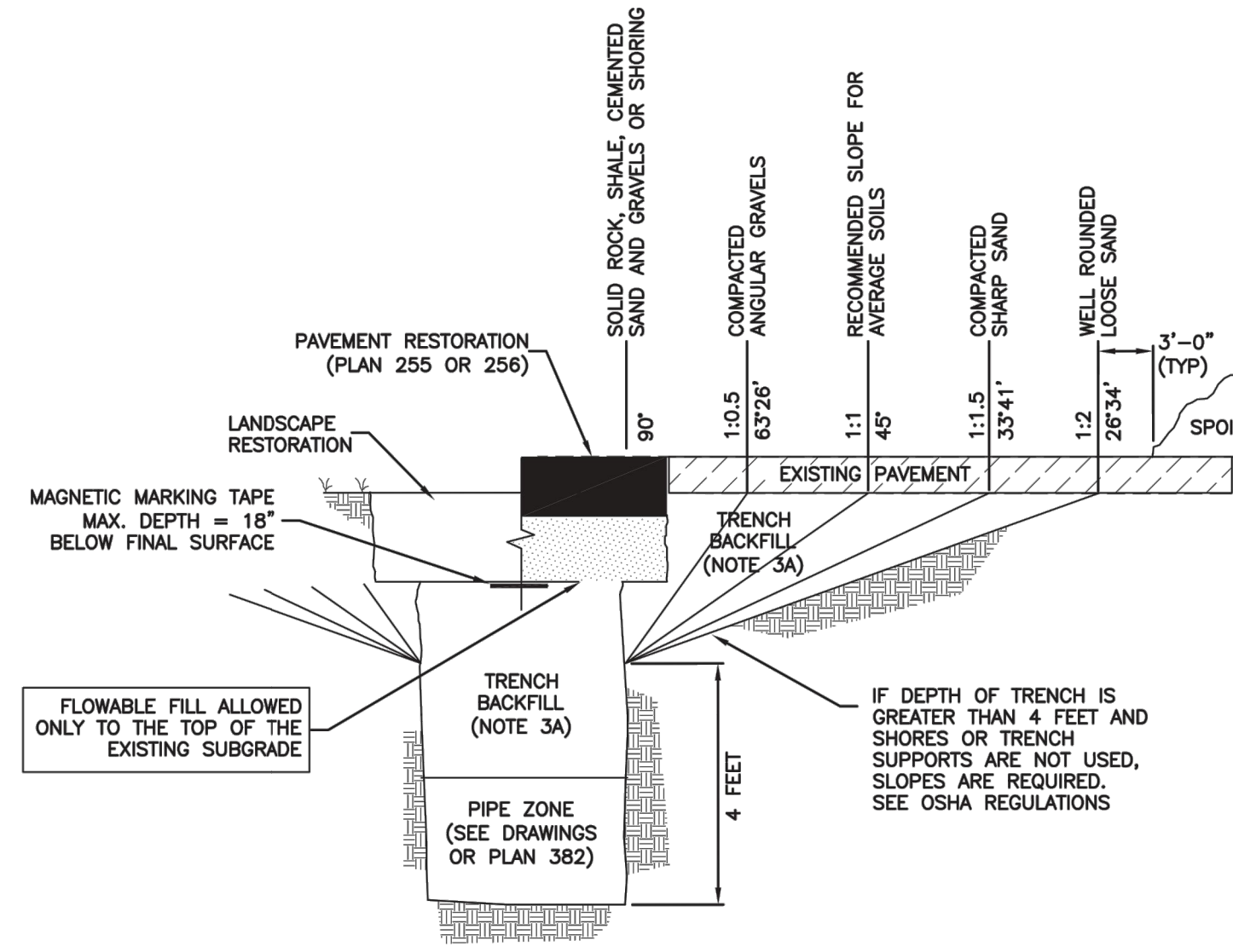
PREPARED FOR: SUMMIT, LLC

REVISIONS:
 NO. BY DATE DESCRIPTION
 1 RMC 5/27/2014 LOW F. DESIGN

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.

Trench backfill

1. **GENERAL**
 - A. The drawing applies to backfilling the trench above the pipe zone.
2. **PRODUCTS**
 - A. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches.
 - B. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
3. **EXECUTION**
 - A. Trench Backfill:
 - 1) DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench backfill.
 - 2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.
 - 3) Water jetting is NOT allowed.
 - 4) Submission of quality control compaction test result data developed for haunching areas may be requested by ENGINEER at any time. Provide results of tests immediately upon request.
 - B. Flowable Fill: When required, place controlled low strength material in the trench, APWA Section 31 05 15. Cure the fill before placing surface restorations.
 - C. Surface Restoration:
 - 1) Landscaped Surface: Rake to match existing grade. Replace vegetation to match pre-construction conditions. Follow APWA Section 32 93 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements.
 - 2) Paved Surface: Do not install asphalt or concrete surfacing until trench compaction is acceptable to ENGINEER. Follow APWA Section 33 05 25 (asphalt surfacing), or APWA Section 33 05 25 (concrete surfacing).



Trench backfill

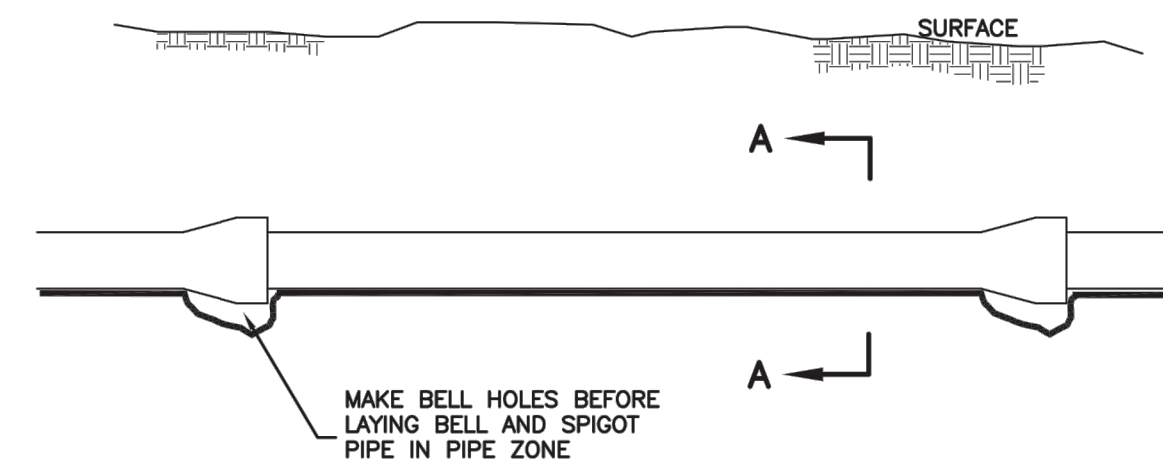
Plan 381

202

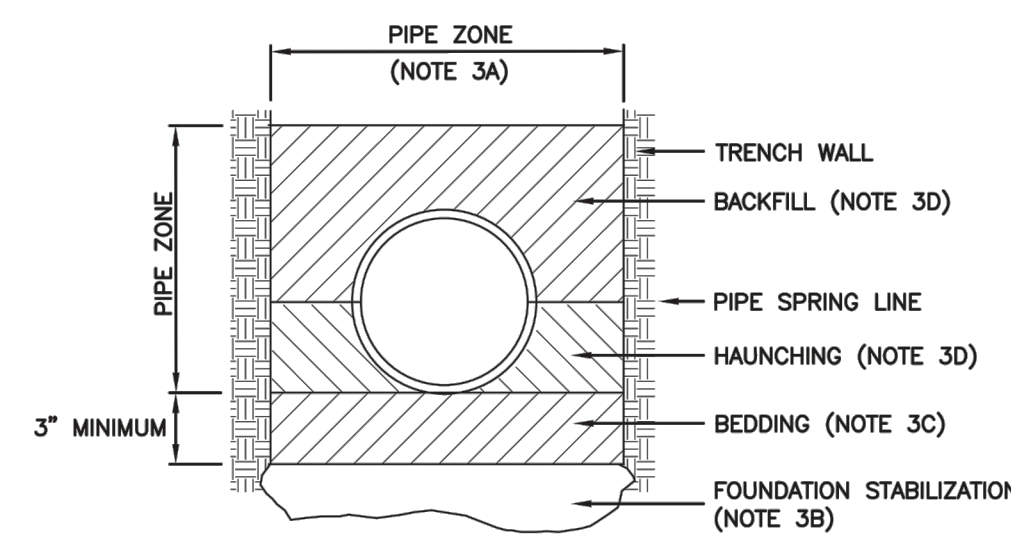
January 2011

Pipe zone backfill

1. **GENERAL**
 - A. Install the pipe in the center of the trench or no closer than 6-inches from the wall of the pipe to the wall of the trench.
2. **PRODUCTS**
 - A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
 - B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
 - C. Concrete: APWA Section 03 30 04.
 - D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
 - E. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.
3. **EXECUTION**
 - A. Excavate the Pipe Zone: Width is measured at the pipe spring line and includes any necessary sheathing. Provide width recommended by pipe manufacturer. Follow manufacturer's recommendations when using trench boxes.
 - B. Foundation Stabilization: Get ENGINEER's permission before installing common fill. Vibrate to stabilize. Installation of stabilization-separation geotextile will be required to separate backfill material and native subgrade materials if common fill cannot provide a working surface or prevent soils migration.
 - C. Base Course:
 - 1) Furnish untreated base course material unless specified otherwise by pipe manufacturer.
 - 2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
 - 3) When using concrete, provide at least Class 2,000 per APWA Section 03 30 04.
 - D. Pipe Zone: DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate in the pipe zone. Water jetting is NOT allowed.
 - 1) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26 unless pipe manufacturer requires more stringent installation.
 - 2) Submission of quality control compaction test result data developed for the haunch zone may be requested by ENGINEER at any time. CONTRACTOR is to provide results of tests immediately upon request.
 - E. Flowable Fill (when required and if allowed by pipe manufacturer):
 - 1) Place the controlled low strength material.
 - 2) Prevent pipe flotation by installing in lifts and providing pipe restraints as required by pipe manufacturer.
 - 3) Reset pipe to line and grade if pipe "floats" out of position.



ELEVATION VIEW



SECTION A-A

INSTALLATION

CONCRETE PIPE: FOLLOW ASTM C 1479
 *STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE SEWER, STORM DRAIN, AND CULVERT PIPE USING STANDARD INSTALLATIONS.

PVC AND HDPE PIPE: FOLLOW ASTM D 2321
 *STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS.

CORRUGATED METAL PIPE: FOLLOW ASTM A 798
 *STANDARD PRACTICE FOR INSTALLING FACTORY-WADE CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATIONS.

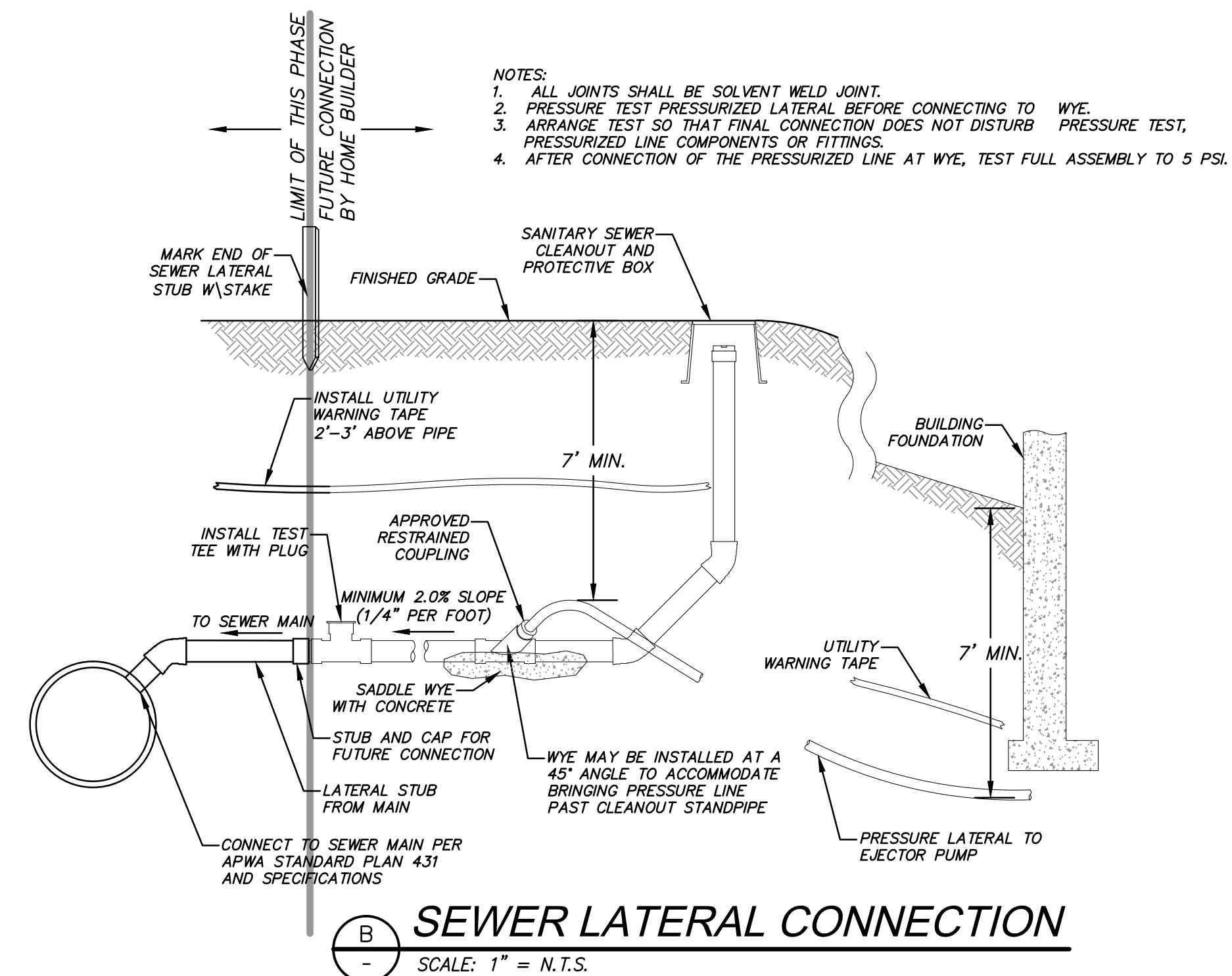
VITRIFIED CLAY PIPE: FOLLOW ASTM C 12.
 *STANDARD RECOMMENDED PRACTICE FOR INSTALLING VITRIFIED CLAY PIPE LINES.

Pipe zone backfill

Plan 382

204

January 2011



Plan 382

SEWER LATERAL CONNECTION

SCALE: 1" = N.T.S.

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1	RMC	5/27/2014	LOW F. DESIGN

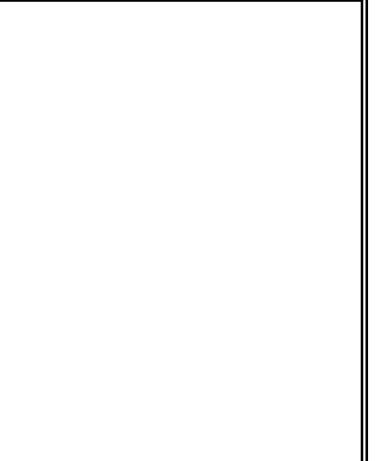
SUMMIT EDEN PHASE 1C
MISCELLANEOUS DETAILS

DATE SUBMITTED: 12/17/2013

PREPARED FOR: SUMMIT, LLC

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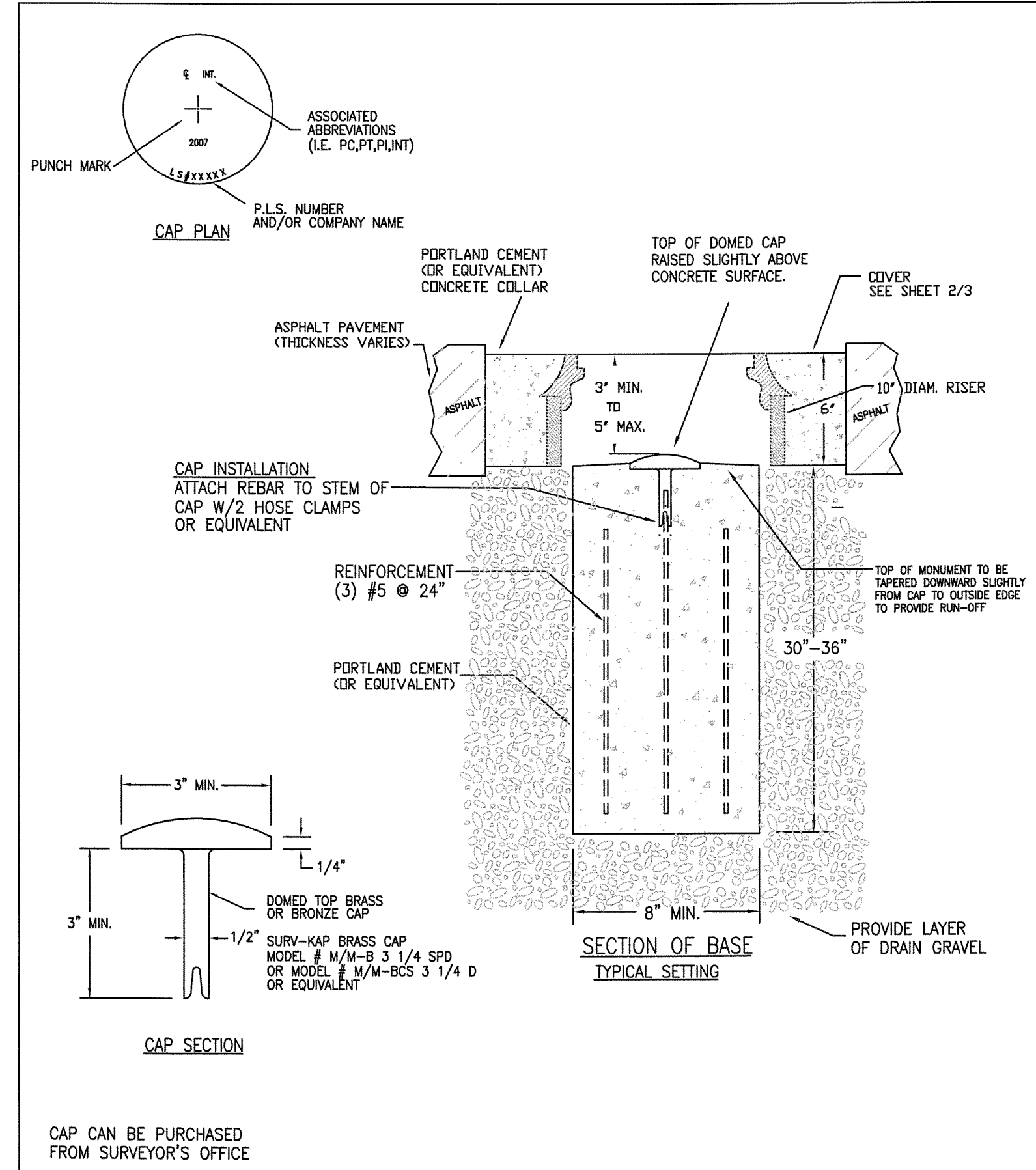
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JOB NUMBER
SLB079306

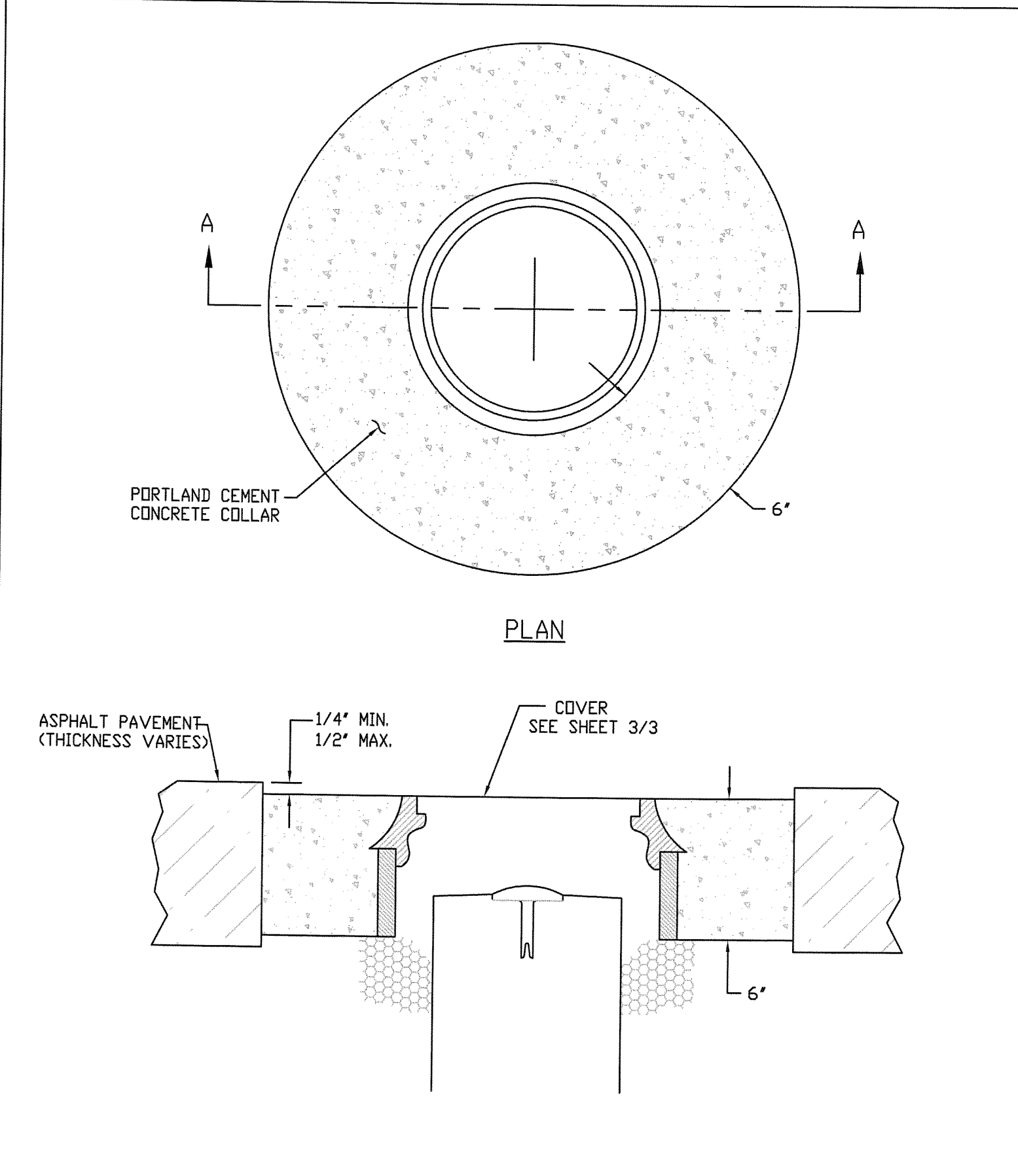


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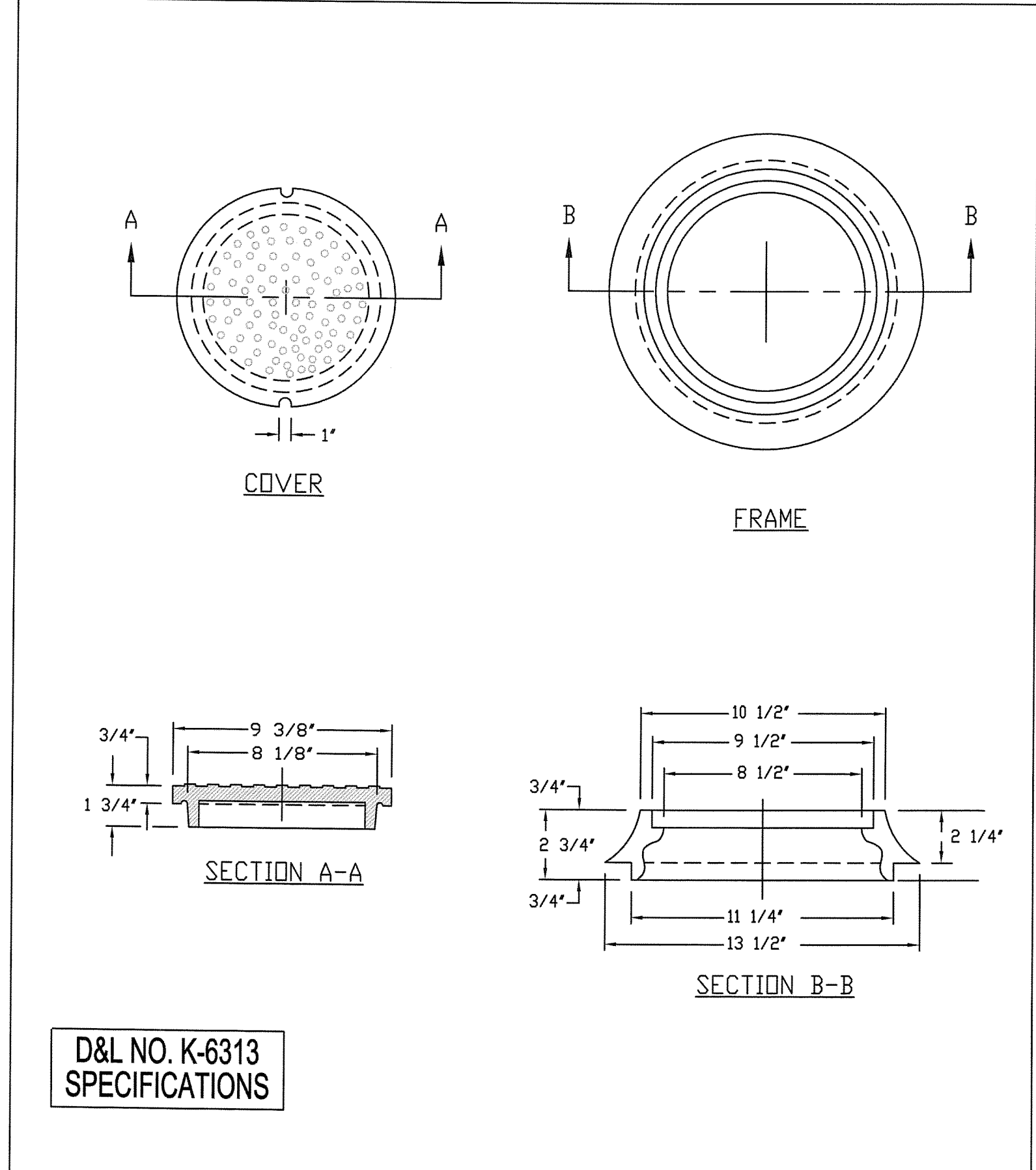
CAUTION



WEBER COUNTY SURVEY OFFICE 3/28/10 399-8020		RING & LID SURVEY MONUMENT		STANDARD PLANS Monument Standard SHEET 1 OF 3	
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WEBER COUNTY SURVEY OFFICE 3/28/10 399-8020		Cover Collar For Survey Monuments		STANDARD PLANS Monument Specifications SHEET 2 OF 3	
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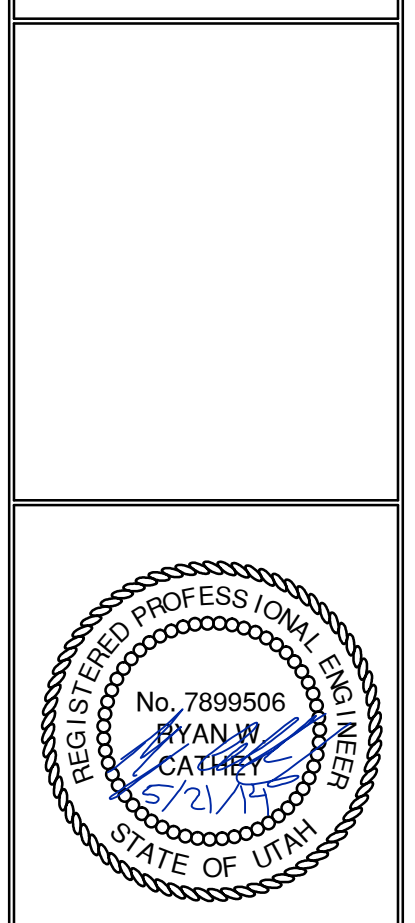
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SUMMIT EDEN PHASE 1C
MISCELLANEOUS DETAILS

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