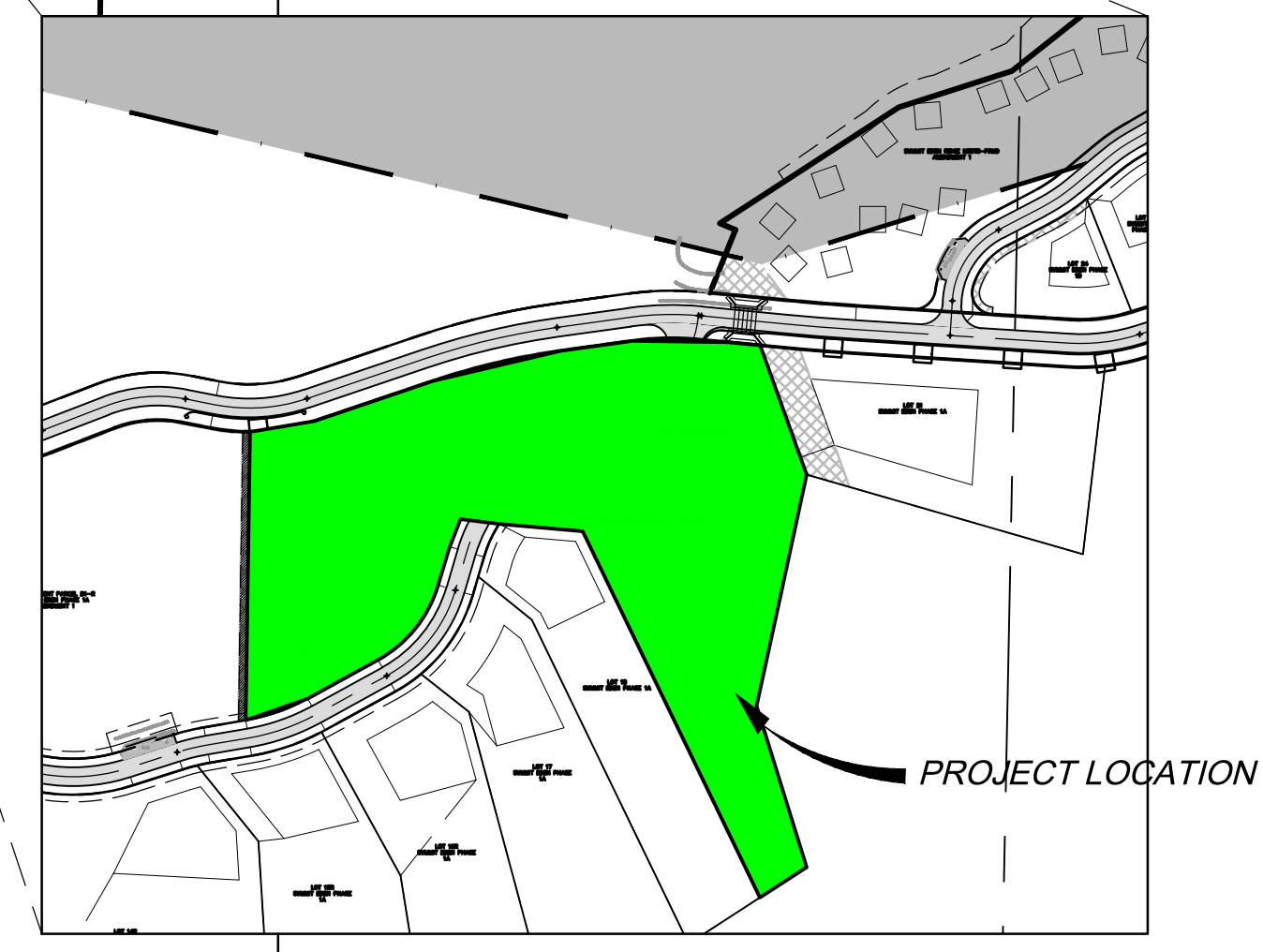
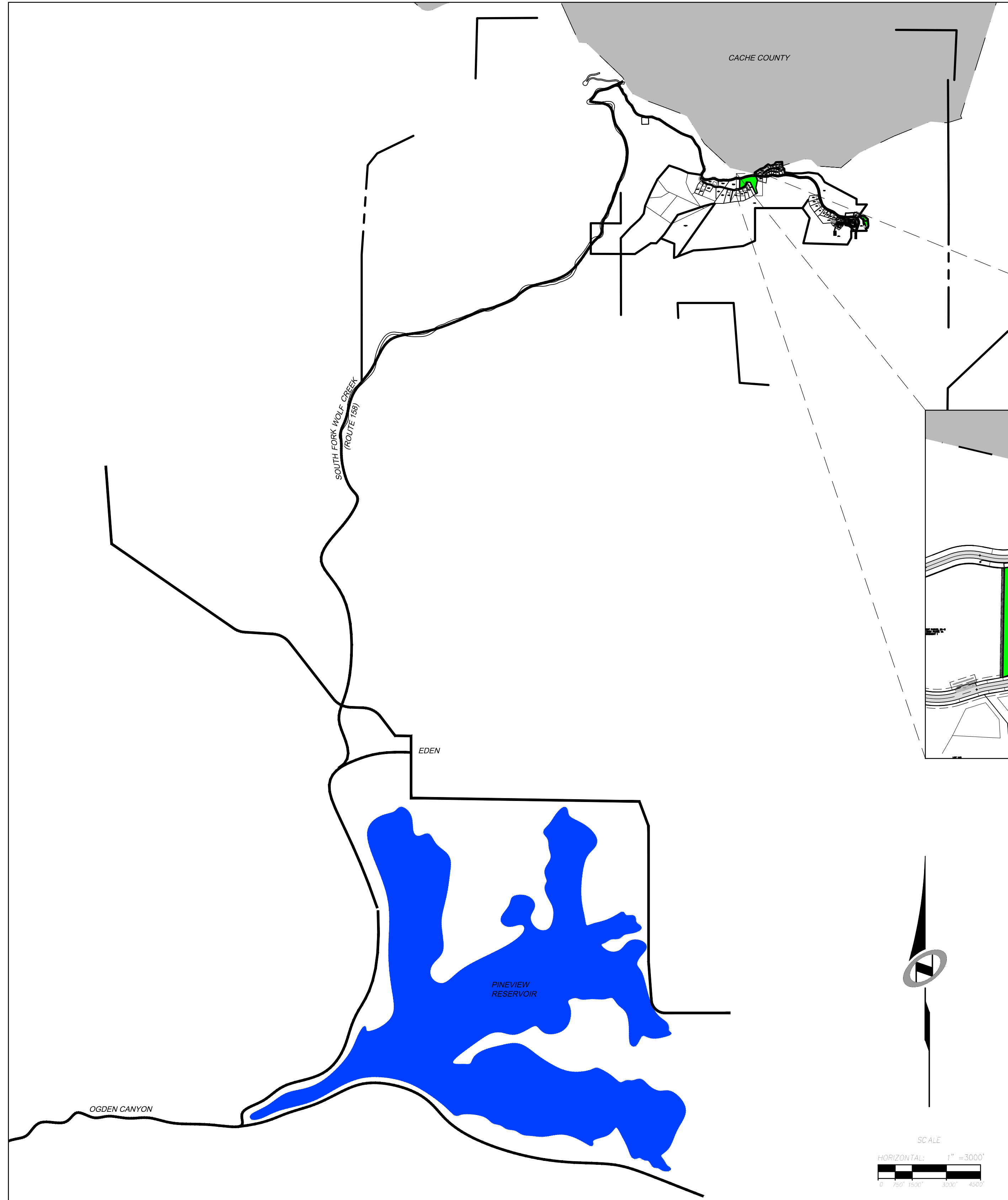


# HORIZON NEIGHBORHOOD PRUD AT SUMMIT POWDER MOUNTAIN CONSTRUCTION DRAWINGS

Located in Sec 08 T7N R2E  
Weber County, Utah



**SHEET INDEX:**

SHEET NO.	SHEET DESCRIPTION
1.00	CIVIL TITLE SHEET
1.01	GENERAL NOTES, KEY NOTES, AND LEGEND
1.02	OVERALL KEY MAP
2.00	SITE AND UTILITY PLAN - WEST
2.01	SITE AND UTILITY PLAN - EAST
2.02	SANITARY SEWER PLAN AND PROFILE
3.00	GRADING AND DRAINAGE PLAN - WEST
3.01	GRADING AND DRAINAGE PLAN - EAST
4.00	EROSION CONTROL PLAN - OVERALL
6.00	DETAILS
6.01	BOOSTER PUMP DETAILS
6.02	BOOSTER PUMP DETAILS
6.03	SEWER EJECTOR DETAILS
6.04	DETAILS
6.05	DETAILS
6.05	GUARDRAIL DETAILS
	ELECTRICAL PLANS
E-01	LEGENDS, NOTES AND SCHEDULES
E-02	POWER ONE-LINE DIAGRAM
GE-01	ELECTRICAL DETAILS - 1

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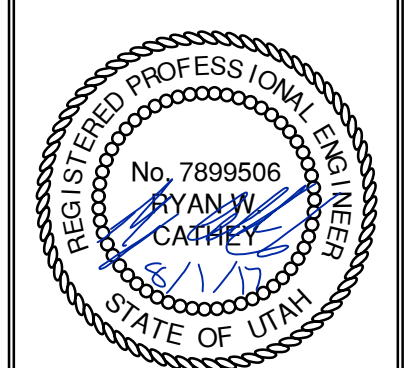
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NO.	BY	DATE	REVISIONS

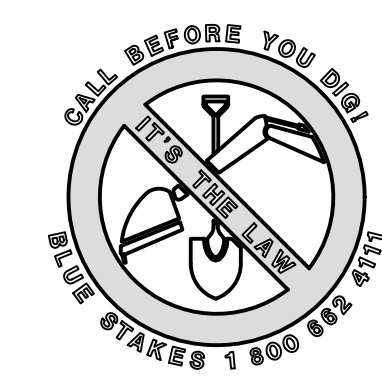
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.  
 CAUTION

HORIZON NEIGHBORHOOD PRUD  
CIVIL TITLE SHEET

**TALISMAN**  
CIVIL CONSULTANTS  
MURRAY, UT 84407  
5217 SOUTH STATE STREET, SUITE 200  
801743.8000 TEL. 801743.0900 FAX

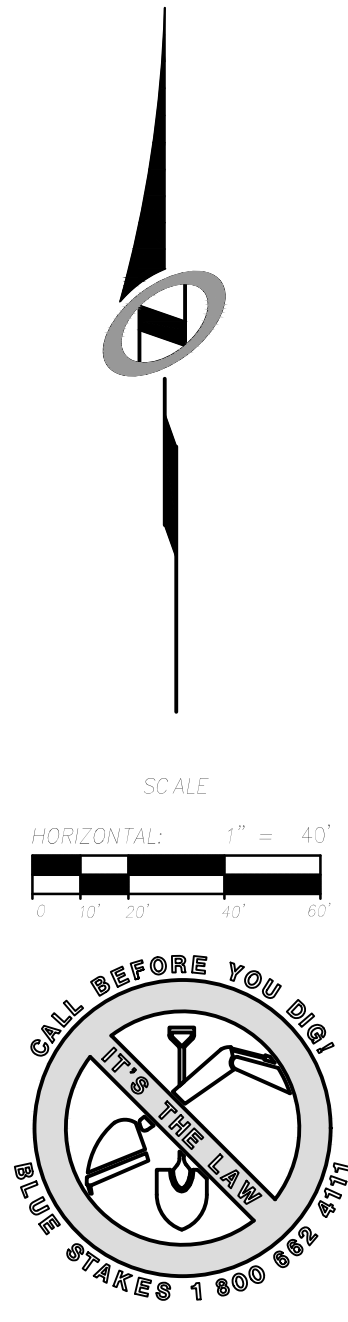
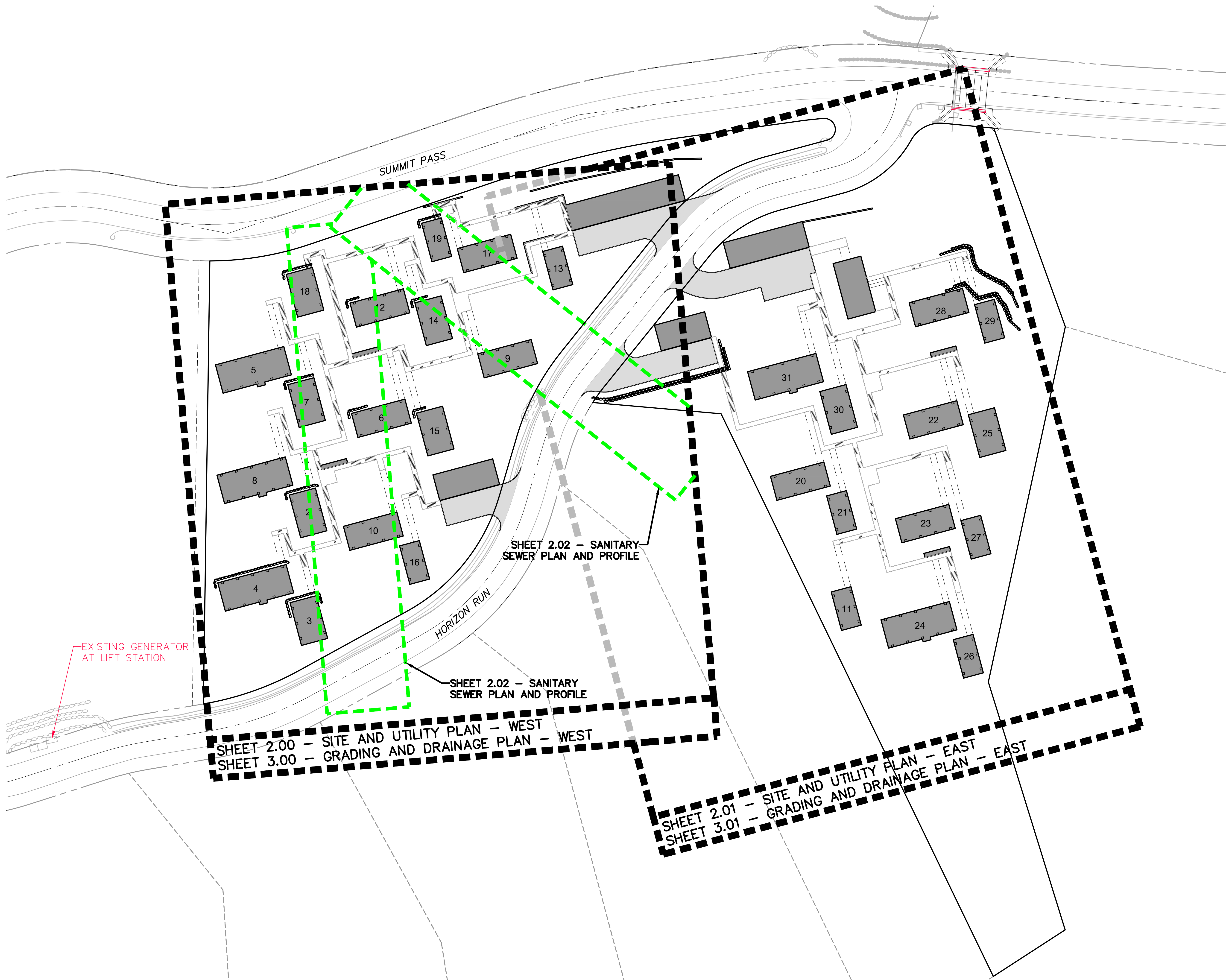


SHEET NUMBER	1.00
SCALE	VERTICAL: 1" = N/A HORIZONTAL: 1" = 3000'
JOB NUMBER	SLB0793



PREPARED FOR: SUMMIT POWDER MOUNTAIN DATE SUBMITTED: 08.01.2017



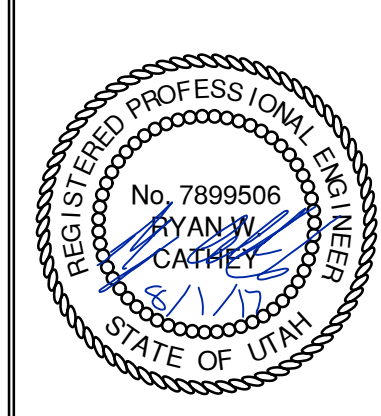


NO.	BY	DATE	REVISIONS

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**HORIZON NEIGHBORHOOD PRUD**  
**OVERALL KEY MAP**

**TALISMAN**  
 CIVIL CONSULTANTS  
 MURRAY, UT 84407  
 5217 SOUTH STATE STREET, SUITE 200  
 801743.8800 TEL. 801743.0800 FAX

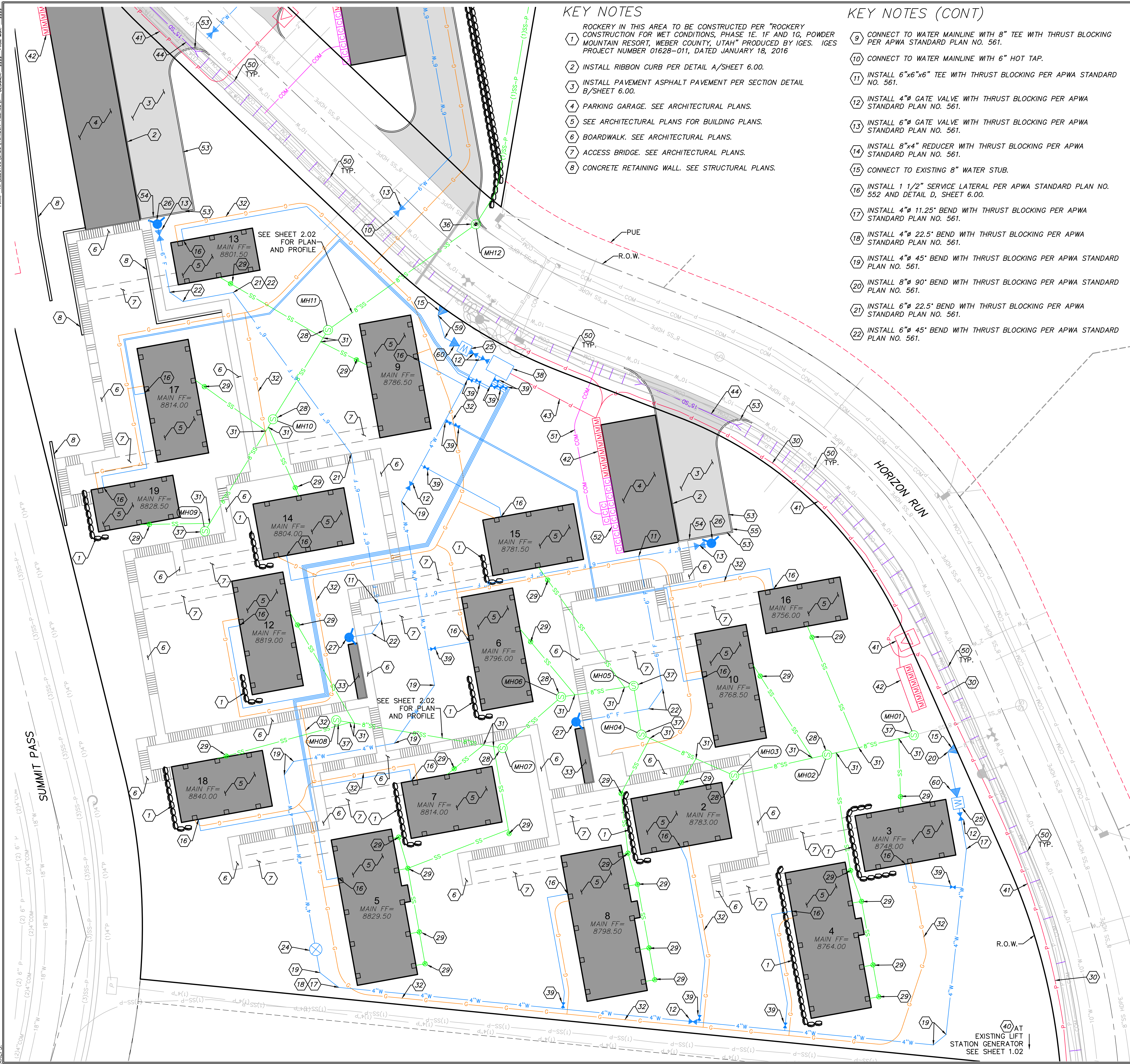


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DATE SUBMITTED: 08.01.2017

PREPARED FOR: SUMMIT POWDER MOUNTAIN

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**KEY NOTES**

- 1 ROCKERY IN THIS AREA TO BE CONSTRUCTED PER "ROCKERY CONSTRUCTION FOR WET CONDITIONS, PHASE 1E, 1F AND 1G, POWDER MOUNTAIN RESORT, WEBER COUNTY, UTAH" PRODUCED BY IGES. IGES PROJECT NUMBER 01628-011, DATED JANUARY 18, 2016
- 2 INSTALL RIBBON CURB PER DETAIL A/SHEET 6.00.
- 3 INSTALL PAVEMENT ASPHALT PAVEMENT PER SECTION DETAIL B/SHEET 6.00.
- 4 PARKING GARAGE. SEE ARCHITECTURAL PLANS.
- 5 SEE ARCHITECTURAL PLANS FOR BUILDING PLANS.
- 6 BOARDWALK. SEE ARCHITECTURAL PLANS.
- 7 ACCESS BRIDGE. SEE ARCHITECTURAL PLANS.
- 8 CONCRETE RETAINING WALL. SEE STRUCTURAL PLANS.

**KEY NOTES (CONT)**

- 9 CONNECT TO WATER MAINLINE WITH 8" TEE WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 10 CONNECT TO WATER MAINLINE WITH 6" HOT TAP.
- 11 INSTALL 6"x6"x6" TEE WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 12 INSTALL 4" GATE VALVE WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 13 INSTALL 6" GATE VALVE WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 14 INSTALL 8"x4" REDUCER WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 15 CONNECT TO EXISTING 8" WATER STUB.
- 16 INSTALL 1 1/2" SERVICE LATERAL PER APWA STANDARD PLAN NO. 552 AND DETAIL D, SHEET 6.00.
- 17 INSTALL 4" 11.25' BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 18 INSTALL 4" 22.5' BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 19 INSTALL 4" 45' BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 20 INSTALL 8" 90' BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
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- 22 INSTALL 6" 45' BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.

**KEY NOTES (CONT)**

- 23 INSTALL 4" WASHOUT VALVE PER APWA STANDARD PLAN NO. 571.
- 24 INSTALL AIR RELEASE ASSEMBLY PER APWA STANDARD PLAN NO. 575.
- 25 CONSTRUCT 4" METER PER APWA STANDARD PLAN NO. 523.
- 26 INSTALL FIRE DEPARTMENT CONNECTION PER DETAIL E/SHEET 6.00. COORDINATE WITH WEBER COUNTY FIRE MARSHAL.
- 27 INSTALL STAND PIPE PER DETAIL E/SHEET 6.00.
- 28 INSTALL 4" SANITARY SEWER MANHOLE PER APWA STANDARD PLAN NO. 411 WITH DEEP DROP INLET PER APWA STANDARD PLAN NO. 433.
- 29 INSTALL 4" SANITARY SEWER LATERAL AND CLEANOUT PER APWA STANDARD PLAN NO. 431 AND DETAIL D, SHEET 6.00.
- 30 ELECTRICAL POWER CONDUIT FROM EXISTING GENERATOR AT LIFT STATION TO BOOSTER PUMP VAULT FOR BACKUP POWER. SEE BOWEN COLLINS ELECTRICAL PLANS.
- 31 WYE CONNECT TO 8" SEWER LINE.
- 32 GAS PIPES, AND STORAGE TANKS (1,000 GAL) TO BE EXCAVATED AND TRENCHED BY CONTRACTOR. INSTALLATION BY OTHERS.
- 33 FIRE CACHE. SEE ARCHITECTURAL PLANS.
- 34 INSTALL FIRE HYDRANT ASSEMBLY PER APWA STANDARD PLAN NO. 511.
- 35 PROPANE TANK PIT PER DETAIL C/SHEET 6.00.
- 36 INSTALL 5" SANITARY SEWER MANHOLE PER APWA STANDARD PLAN NO. 411.
- 37 INSTALL 4" SANITARY SEWER MANHOLE PER APWA STANDARD PLAN NO. 411.
- 38 INSTALL BOOSTER PUMP VAULT PER DETAIL A, SHEET 6.02.
- 39 INSTALL 1 1/2" BALL VALVE.
- 40 CONNECT TO EXISTING BACKUP GENERATOR. SEE BOWEN COLLINS ELECTRICAL PLANS.
- 41 ELECTRICAL POWER CONDUIT, TRANSFORMERS AND PULL BOXES. SEE SALMON ELECTRICAL PLANS.
- 42 POWER METER BASE AND MAIN CIRCUIT BREAKER, SEE SALMON ELECTRICAL PLANS.
- 43 BOOSTER PUMP VAULT ELECTRICAL EQUIPMENT, SEE DETAIL B, SHEET 6.02. SEE BOWEN COLLINS ELECTRICAL PLANS.
- 44 INSTALL 15" RCP CLASS 3 CULVERT WITH FLARED END SECTIONS TO MATCH EXISTING FLOWLINE OF DRAINAGE CHANNEL.
- 45 INSTALL E/ONE GRINDER PUMP STATION MODEL DH071. WITH E/ONE SENTRY ALARM PANEL INCLUDING GENERATOR RECEPTACLE WITH AUTO TRANSFER AND GFCI RECEPTACLE. ALARM PANELS SHALL BE INSTALLED WITHIN LINE OF SIGHT OF ENTRY TO UNIT. SEE DETAIL SHEET 6.03.
- 46 INSTALL E/ONE GRINDER PUMP STATION MODEL DH151. WITH E/ONE SENTRY ALARM PANEL INCLUDING GENERATOR RECEPTACLE WITH AUTO TRANSFER AND GFCI RECEPTACLE. ALARM PANELS SHALL BE INSTALLED WITHIN LINE OF SIGHT OF ENTRY TO UNIT. SEE DETAIL SHEET 6.03.
- 47 CONSTRUCT ROCK WALL WITH GUARDRAIL. SEE STRUCTURAL PLANS.
- 48 WYE CONNECT 1.5" SEWER PIPE
- 49 CONSTRUCT 4' WIDE x 1' DEEP DRAINAGE SWALE. LINE SWALE WITH D50=6" RIP RAP.
- 50 INSTALL CHECK DAM PER DETAIL A, SHEET 6.04. CHECK DAMS TO BE INSTALLED AT EVERY 12" IN ELEVATION RISE AS SHOWN ON PLAN.
- 51 INSTALL COMMUNICATION CONDUIT.
- 52 INSTALL COMMUNICATION BOX.
- 53 INSTALL P-TYPE CURB PER APWA PLAN NO. 209.
- 54 CONSTRUCT CURB TRANSITION.
- 55 CONSTRUCT 6" CURB CUT PER DETAIL B/SHEET 6.04.
- 56 INSTALL CATCH BASIN PER APWA STANDARD PLAN NO. 315, 308, AND 206.
- 57 INSTALL 15" CORRUGATED HDPE STORM DRAIN PIPE PER APWA STANDARD PLAN NO. 381, AND 382.
- 58 INSTALL FLARED END SECTION PER APWA STANDARD PLAN NO. 323.
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- 62 INSTALL 8"x6" REDUCER WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 63 CONSTRUCT 18'x10' D50=9" RIP RAP OUTFALL.

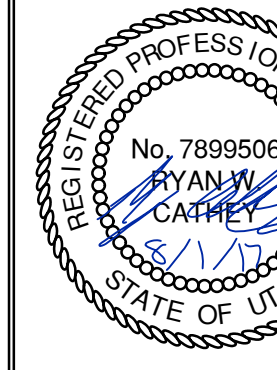
NO.	DATE	BY	REVISIONS

**HORIZON NEIGHBORHOOD PRUD  
 SITE AND UTILITY PLAN - WEST**

**TALISMAN**  
 CIVIL CONSULTANTS

5617 SOUTH STATE STREET, SUITE 200  
 801743.8000 TEL. 801743.0800 FAX

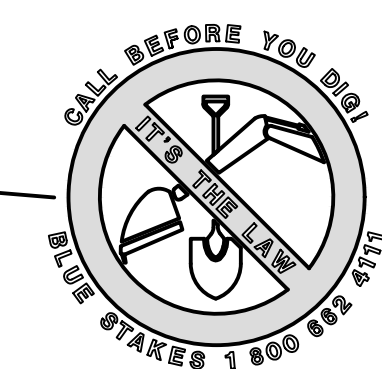
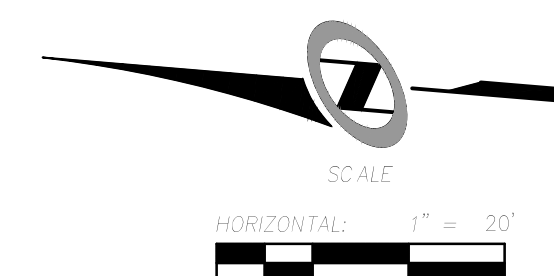
MURRAY, UT 84407



SHEET NUMBER  
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JOB NUMBER  
**SLB0793**

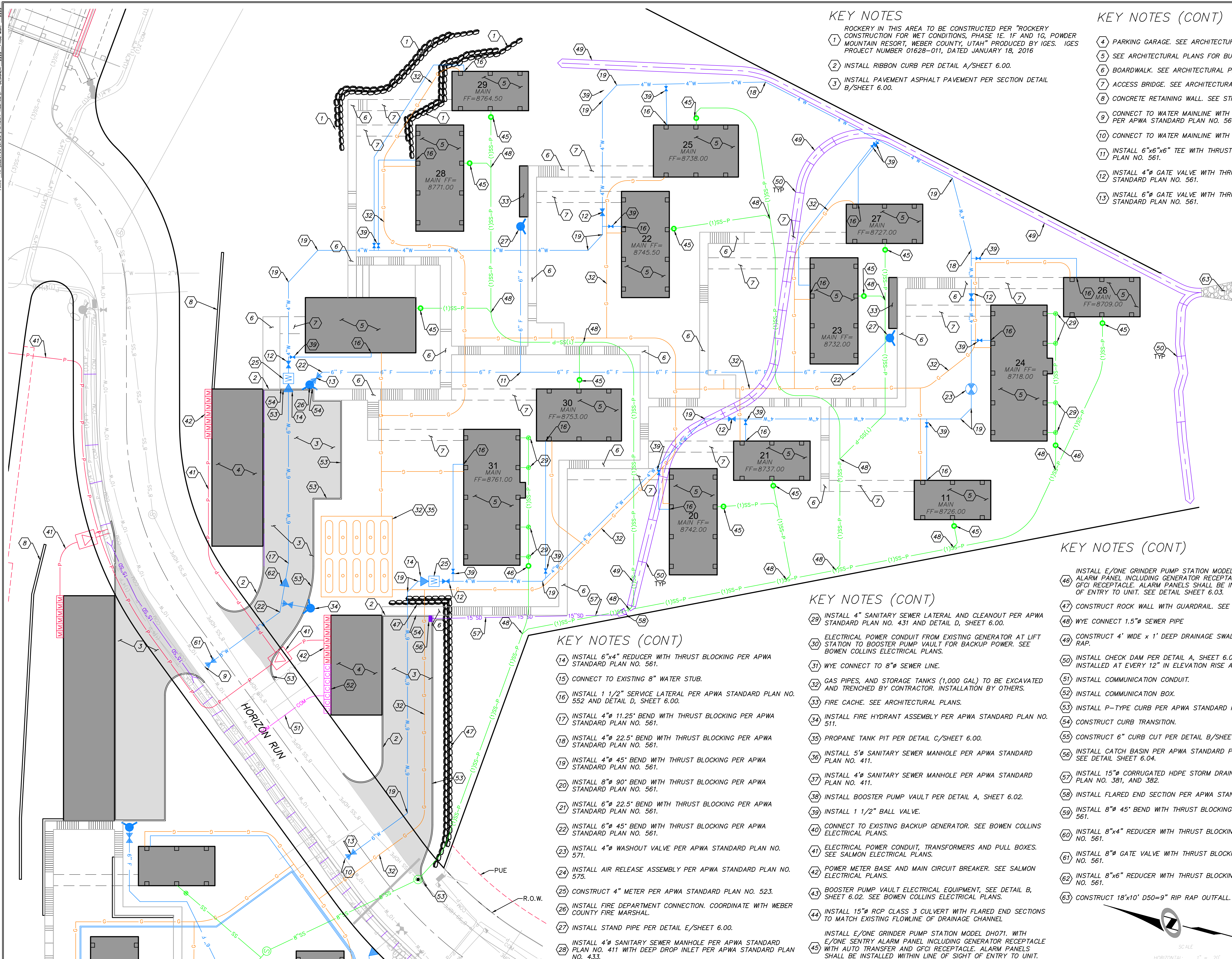


DATE SUBMITTED: 08.01.2017

PREPARED FOR: SUMMIT POWDER MOUNTAIN

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 PATH: N:\S\B0793\CAD\HORIZON VILLAGE VP DESIGNED: JHH PROJ. NO: 01628-011

JOSH  
 XREFS:



**KEY NOTES**

- 1 ROCKERY IN THIS AREA TO BE CONSTRUCTED PER "ROCKERY CONSTRUCTION FOR WET CONDITIONS, PHASE 1E, 1F AND 1G, POWDER MOUNTAIN RESORT, WEBER COUNTY, UTAH" PRODUCED BY IGES. IGES PROJECT NUMBER 01628-011, DATED JANUARY 18, 2016
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**KEY NOTES (CONT)**

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- 5 SEE ARCHITECTURAL PLANS FOR BUILDING PLANS.
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**KEY NOTES (CONT)**

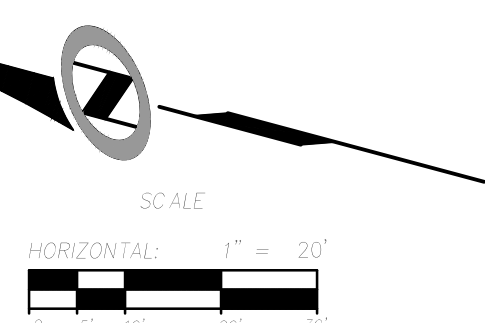
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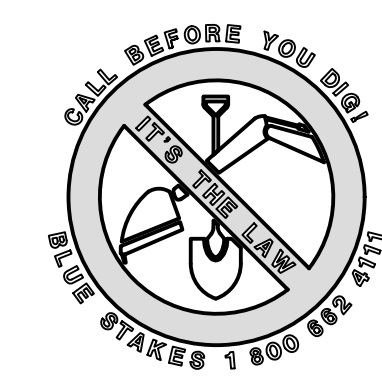
NO.	DATE	REVISIONS

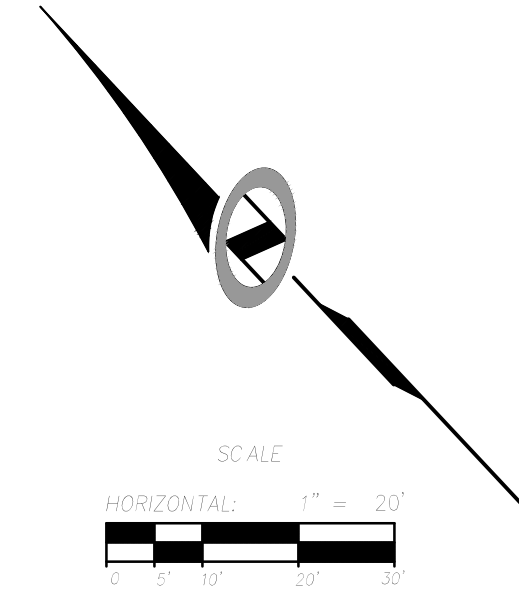
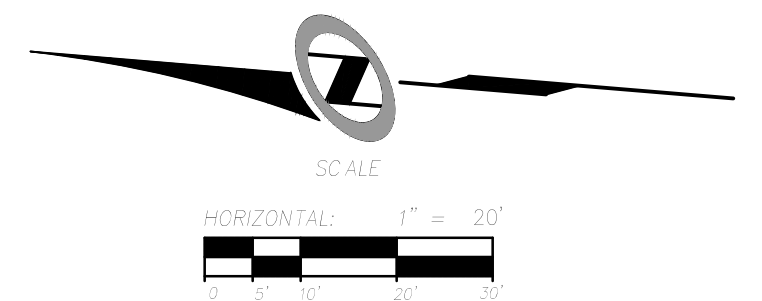
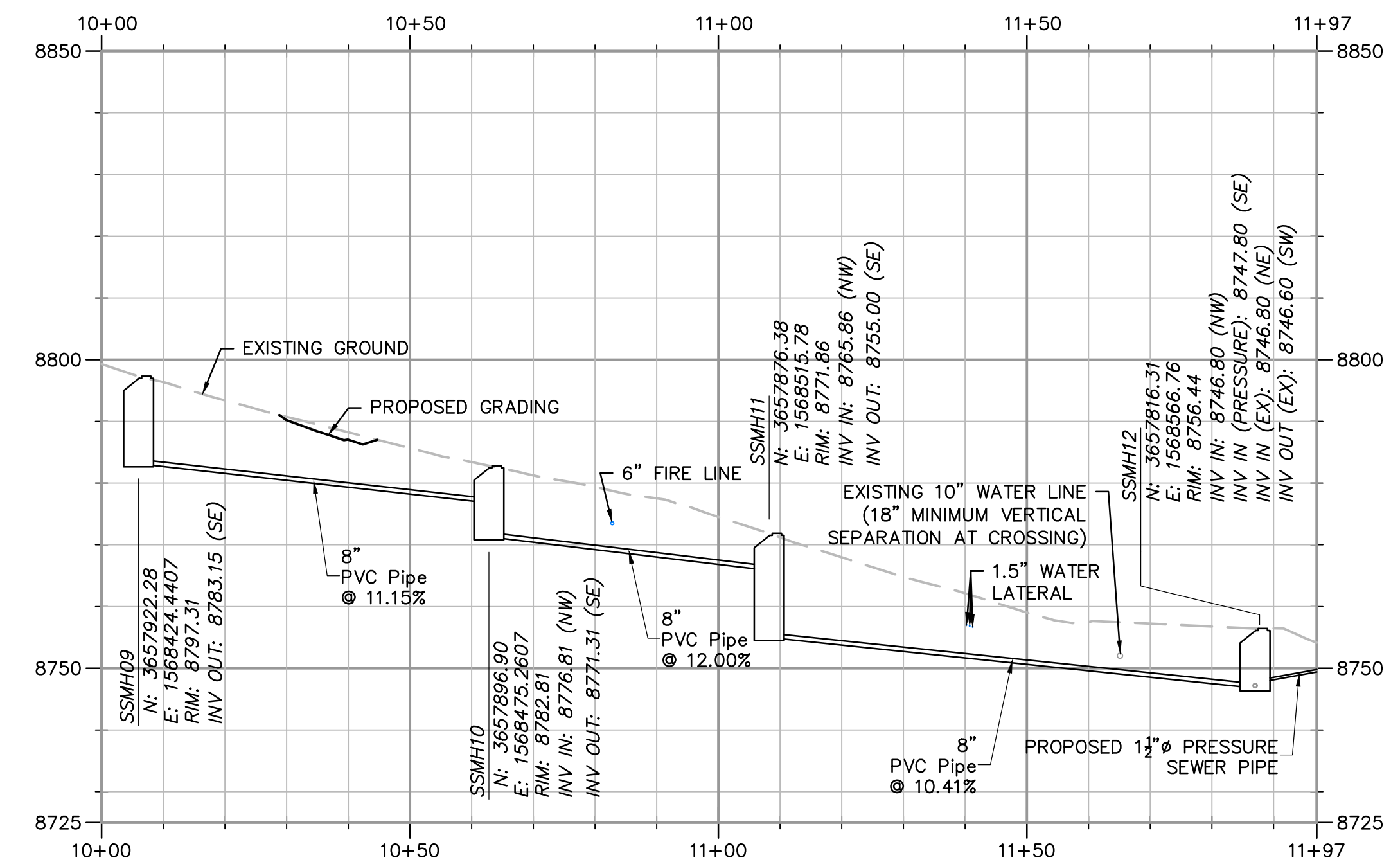
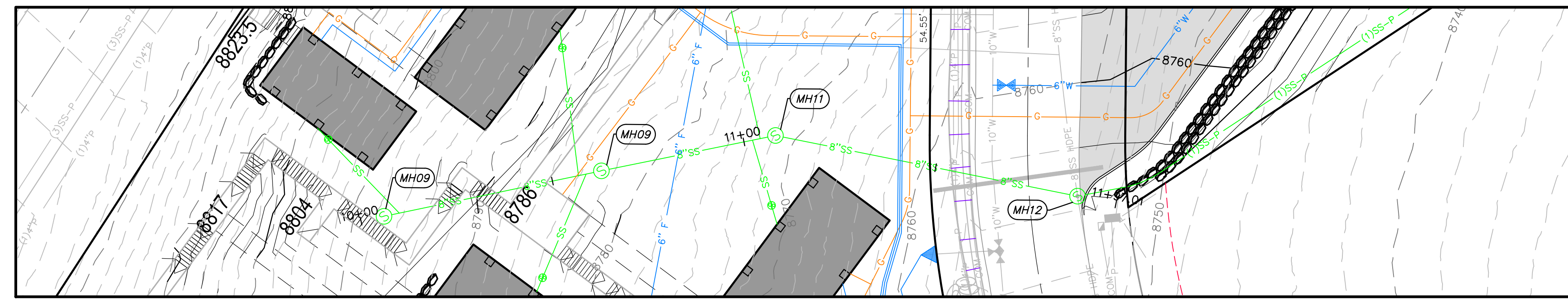
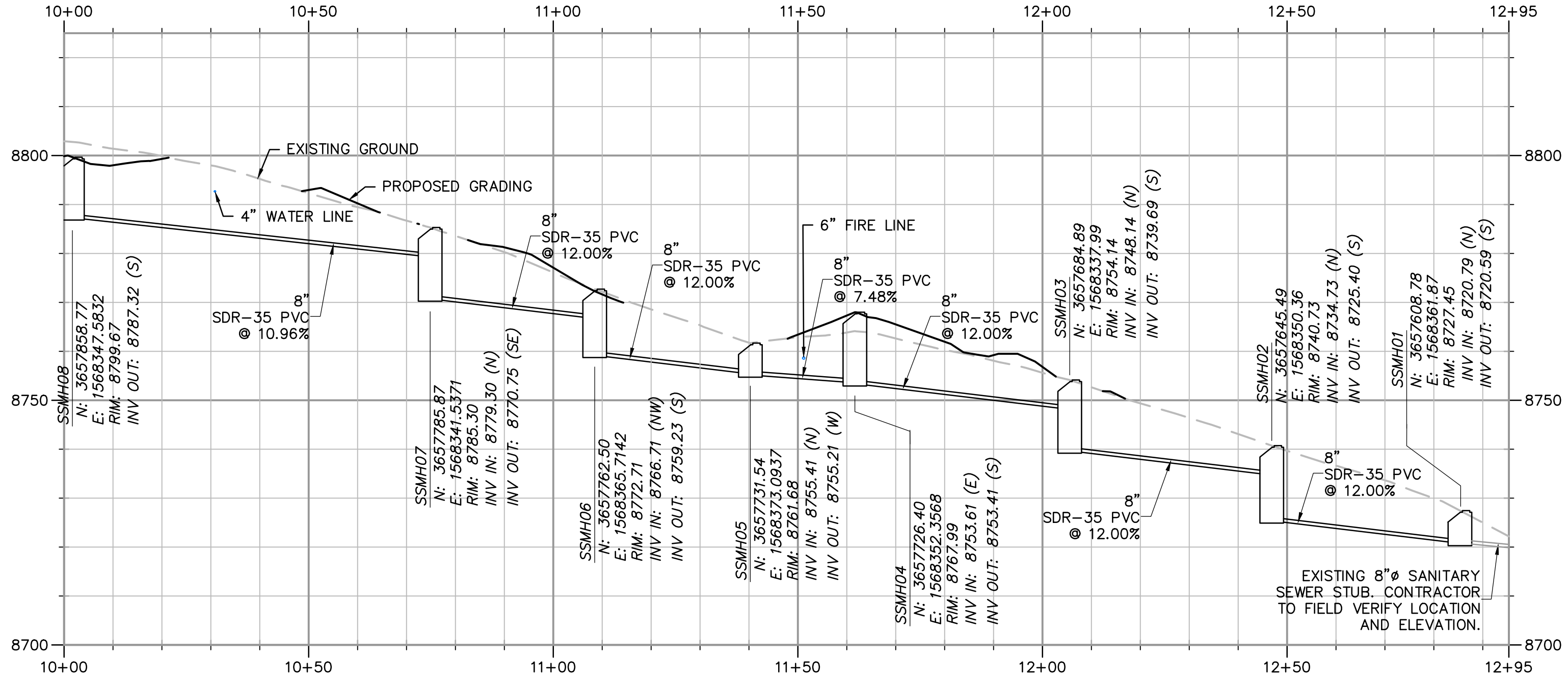
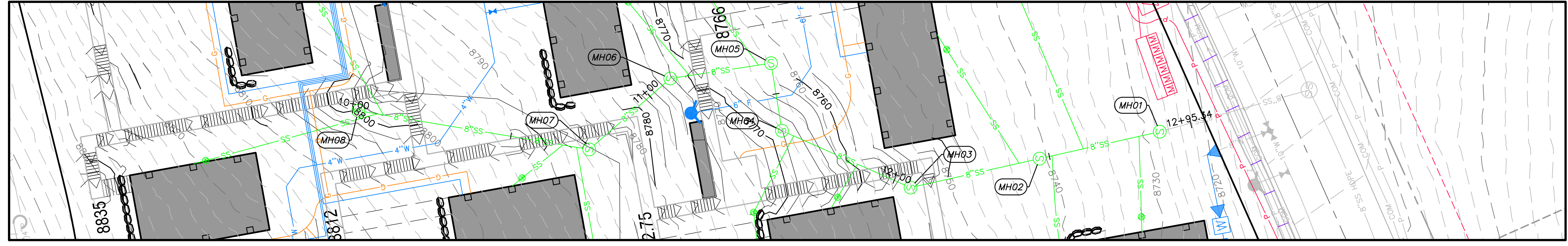
**HORIZON NEIGHBORHOOD PRUD**  
**SITE AND UTILITY PLAN - EAST**  
 PREPARED FOR: SUMMIT POWDER MOUNTAIN  
 DATE SUBMITTED: 08.01.2017

**TALISMAN**  
 CIVIL CONSULTANTS  
 6217 SOUTH STATE STREET, SUITE 200  
 801743.8800 TEL. 801743.0800 FAX  
 MURRAY, UT 84407

REGISTERED PROFESSIONAL ENGINEER  
 No. 7899506  
 RYAN W. CATHEY  
 STATE OF UTAH  
 SHEET NUMBER  
**2.01**  
 SCALE  
 VERTICAL: 1"= N/A  
 HORIZONTAL: 1"= 20'  
 JOB NUMBER  
**SLB0793**

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.





NO.	BY	DATE	REVISIONS

# HORIZON NEIGHBORHOOD PRUD SANITARY SEWER PLAN AND PROFILE



5217 SOUTH STATE STREET, SUITE 200  
 801743.8000 TEL. 801743.0800 FAX  
 MURRAY, UT 84407

SHEET NUMBER	2.02
SCALE	VERTICAL: 1" = N/A HORIZONTAL: 1" = 20'
JOB NUMBER	SLB0793

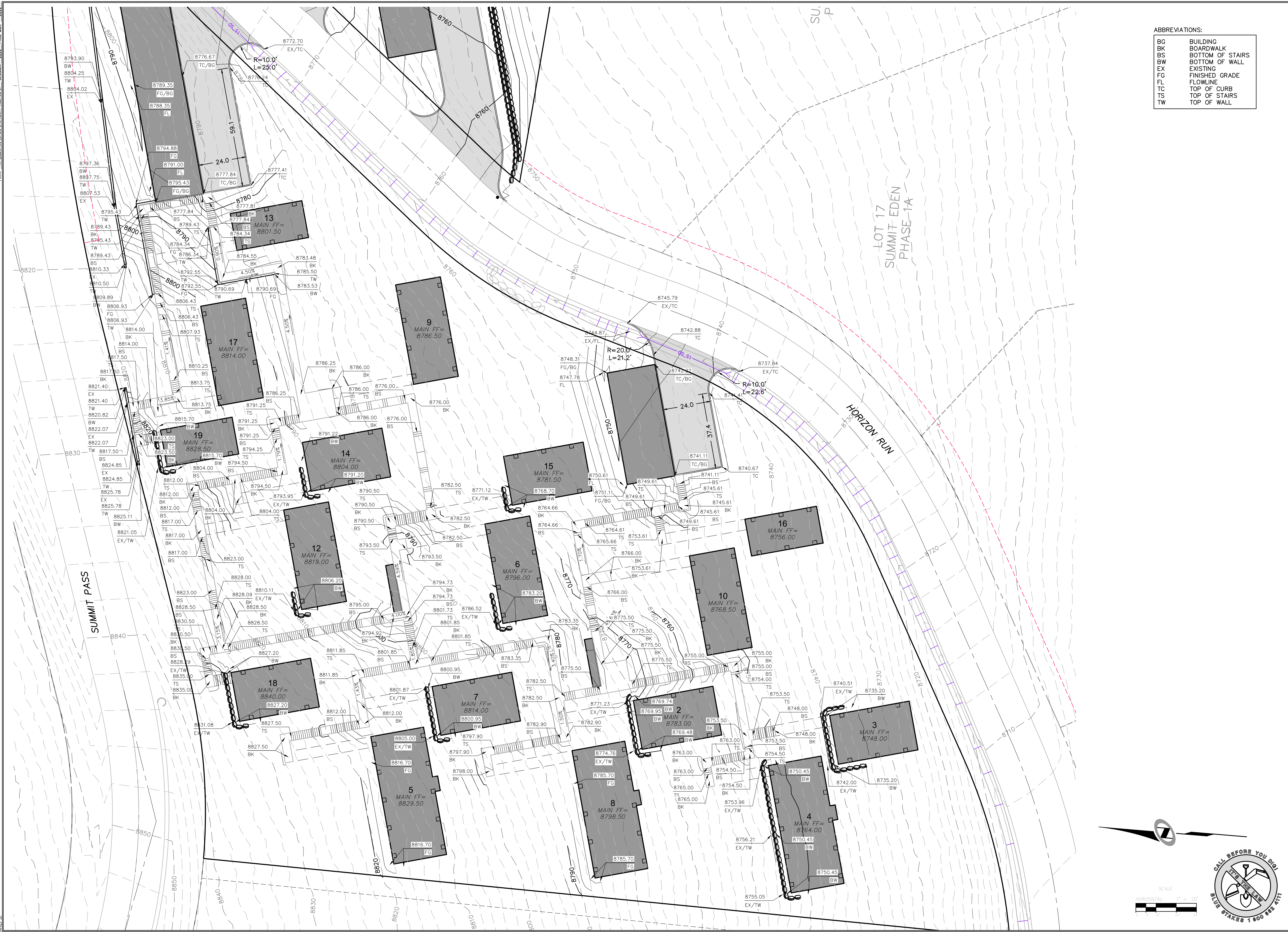
DATE SUBMITTED: 08.01.2017

PREPARED FOR: SUMMIT POWDER MOUNTAIN

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.

DATE: 8/7/17 TIME: 2:35:17 PM DRAWING: GRADING AND DRAINAGE PLAN - WEST SIDE  
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 PATH: N:\SLB0793\CADD\HORIZON VILLAGE V.P. DESIGNED: JMM PROJ. NO: 17010

JOSH  
 XREES



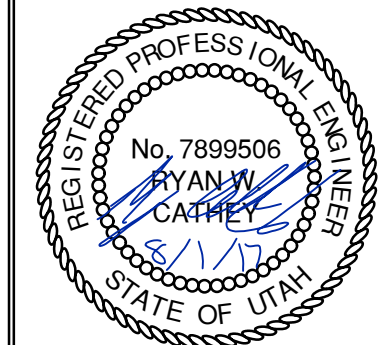
ABBREVIATIONS:

BC	BUILDING
BK	BOARDWALK
BS	BOTTOM OF STAIRS
BW	BOTTOM OF WALL
EX	EXISTING
FG	FINISHED GRADE
FL	FLOWLINE
TC	TOP OF CURB
TS	TOP OF STAIRS
TW	TOP OF WALL

**HORIZON NEIGHBORHOOD PRUD**  
**GRADING AND DRAINAGE PLAN - WEST**



5817 SOUTH STATE STREET, SUITE 200  
 8017433800 TEL. 8017433800 FAX  
 MURRAY, UT 84407



SHEET NUMBER  
**3.00**

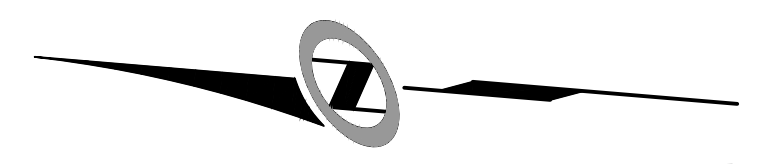
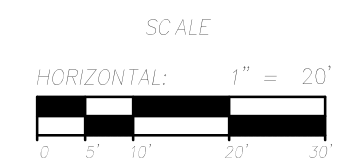
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 VERTICAL: 1" = N/A  
 HORIZONTAL: 1" = 20'

JOB NUMBER  
**SLB0793**

PREPARED FOR: SUMMIT POWDER MOUNTAIN

DATE SUBMITTED: 08.01.2017

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



DATE: 8/7/17 TIME: 2:37:42 PM DRAWING: GRADING AND DRAINAGE PLAN - EAST  
 SERVER: NONE PAGE SETUP: PLOT - 33x44-36 LAYOUT: 100%  
 PATH: N:\SLB0793\3300\HORIZON VILLAGE V.P. DESIGNED: JMM DRAWN: JMM

MATCHLINE - SEE THIS SHEET

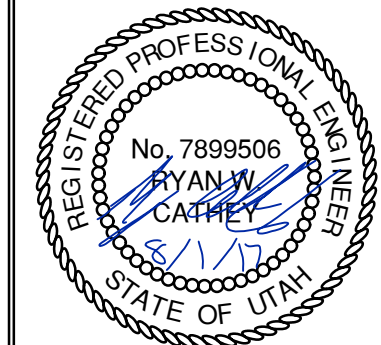
ABBREVIATIONS:

BC	BUILDING
BK	BOARDWALK
BS	BOTTOM OF STAIRS
BW	BOTTOM OF WALL
EX	EXISTING
FG	FINISHED GRADE
FL	FLOWLINE
TC	TOP OF CURB
TS	TOP OF STAIRS
TW	TOP OF WALL



MATCHLINE - SEE THIS SHEET

**HORIZON NEIGHBORHOOD PRUD**  
**GRADING AND DRAINAGE PLAN - EAST**



SHEET NUMBER	3.01
SCALE	VERTICAL: 1" = N/A HORIZONTAL: 1" = 20'
JOB NUMBER	SLB0793

PREPARED FOR: SUMMIT POWDER MOUNTAIN

DATE SUBMITTED: 08.01.2017

MURRAY, UT 84407

6217 SOUTH STATE STREET, SUITE 200  
 801743.8000 TEL. 801743.0800 FAX

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.

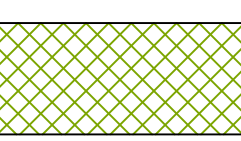
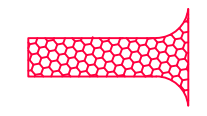


JOSH B. XREES:

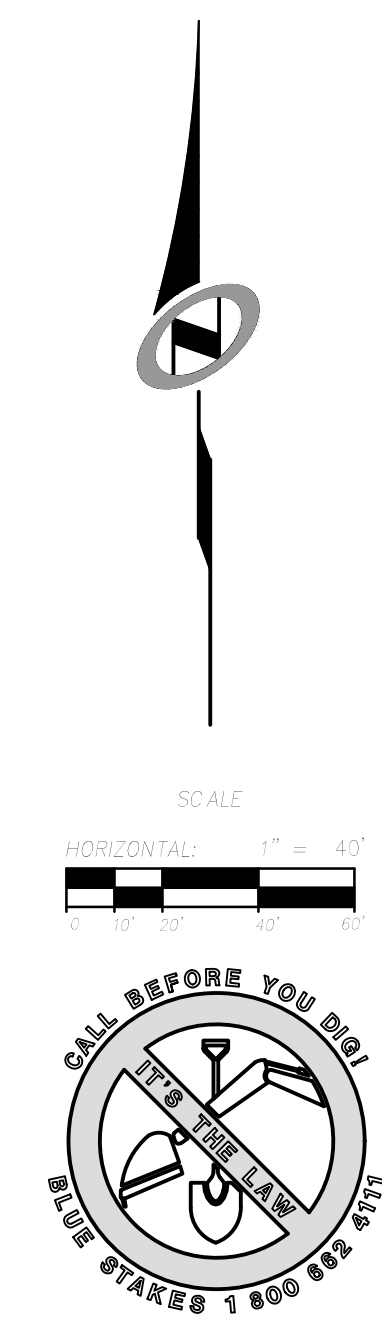


DATE: 8/7/17 TIME: 2:39:31 PM DRAWING NAME: EROSION CONTROL PLAN - OVERALL  
 SERVER: NONE PAGE SETUP: PPT-C3D-24-38 LAYOUT: L001  
 PATH: N:\SLB0793\CAD\HORIZON VILLAGE VP EROSION PLAN PROJ.MXD: ###



**SCOPE OF WORK:**  
 PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

-  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. RE-SEED AREA IS APPROXIMATE. CONTRACTOR IS TO REVEGITATE ALL DISTURBED AREAS.
-  STABILIZED CONSTRUCTION ENTRANCE FOR SITE INGRESS/EGRESS. IF ALTERNATE ACCESS POINTS ARE APPROVED BY OWNER, ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES WILL BE REQUIRED.
-  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.



NO.	BY	DATE	REVISIONS

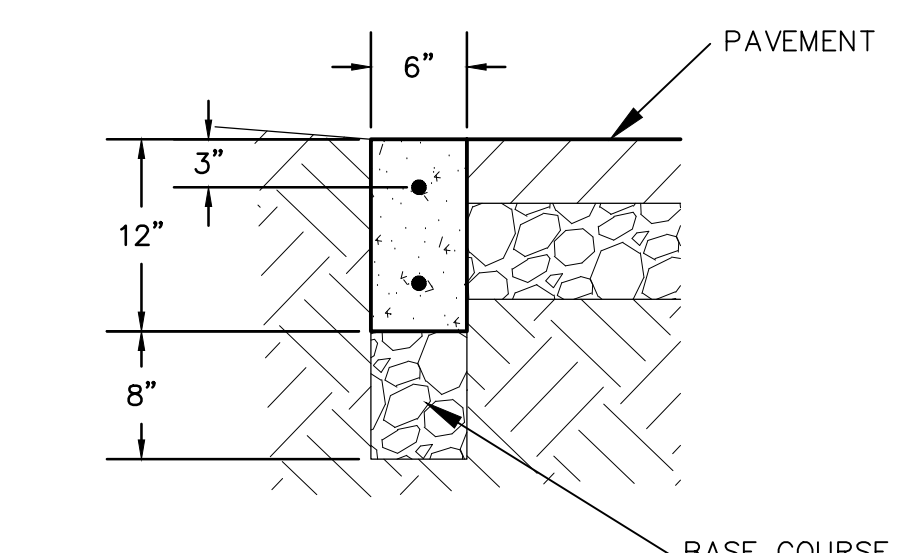
**HORIZON NEIGHBORHOOD PRUD**  
**EROSION CONTROL PLAN - OVERALL**  
 PREPARED FOR: SUMMIT POWDER MOUNTAIN  
 DATE SUBMITTED: 08.01.2017

**TALISMAN**  
 CIVIL CONSULTANTS  
 MURRAY, UT 84407  
 5217 SOUTH STATE STREET, SUITE 200  
 801743.8800 TEL. 801743.0800 FAX

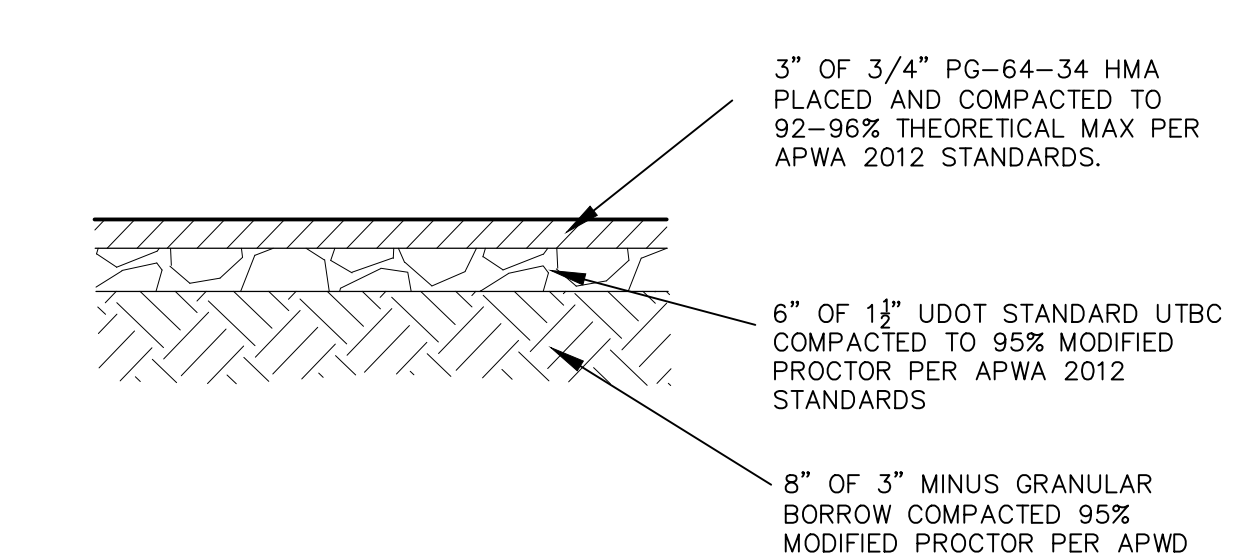
REGISTERED PROFESSIONAL ENGINEER  
 No. 7899506  
 RYAN W. CATHEY  
 STATE OF UTAH  
 SHEET NUMBER  
**4.00**  
 SCALE  
 VERTICAL: 1" = N/A  
 HORIZONTAL: 1" = 40'  
 JOB NUMBER  
**SLB0793**

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.  
 CAUTION

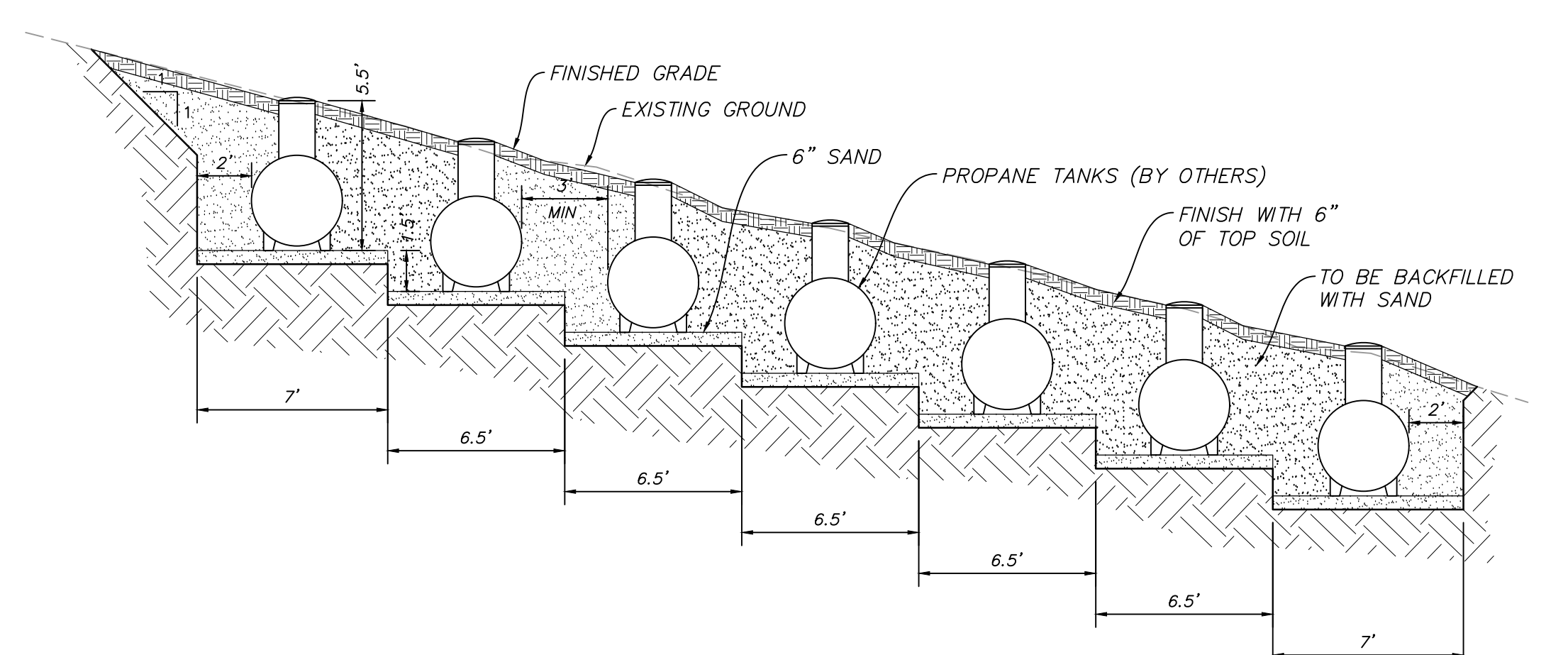
JOSH  
 XREES



**(A) RIBBON CURB**  
 (MODIFIED TYPE P CURB)  
 NTS

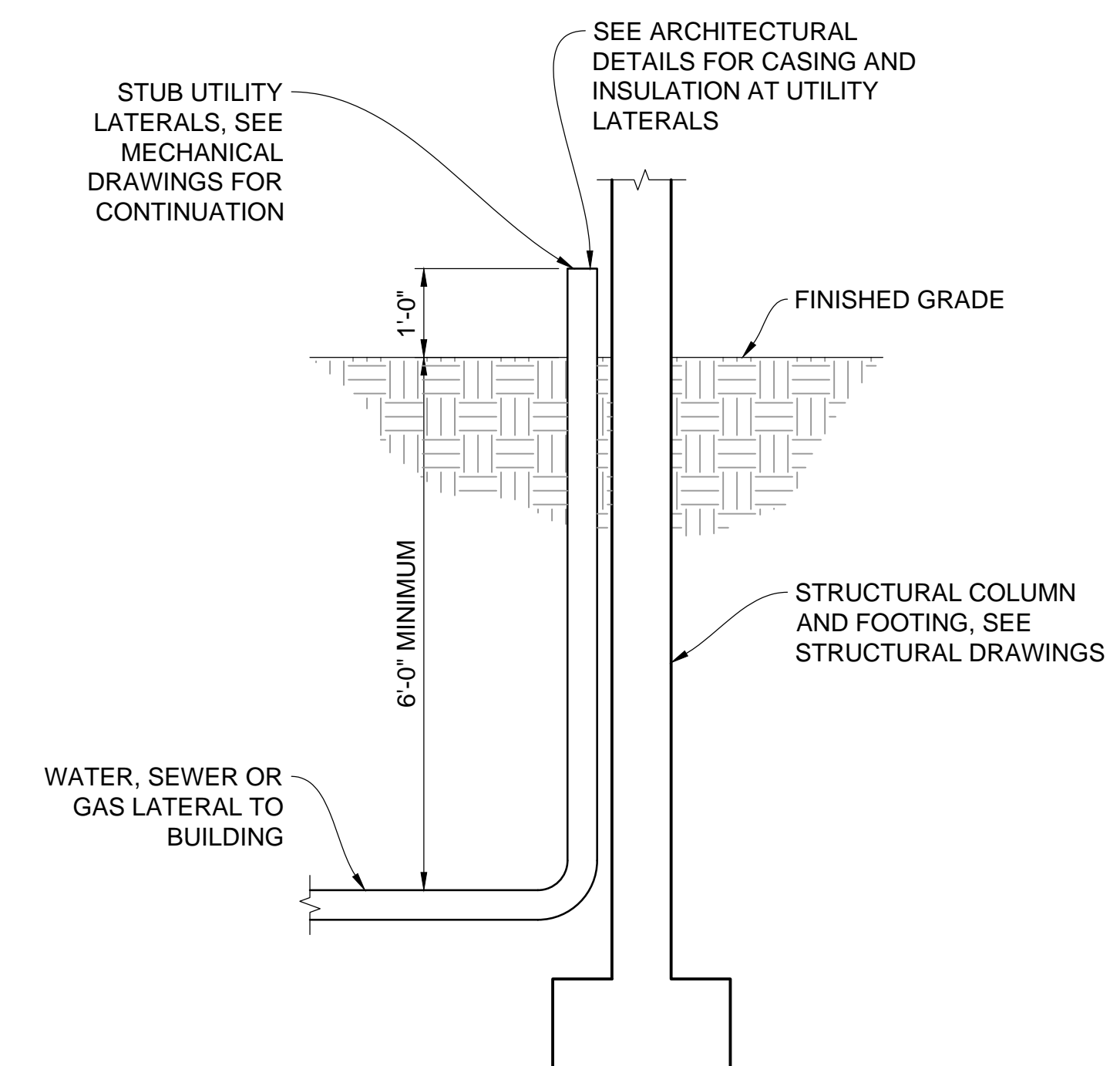


**(B) PARKING ASPHALT SECTION**  
 NTS



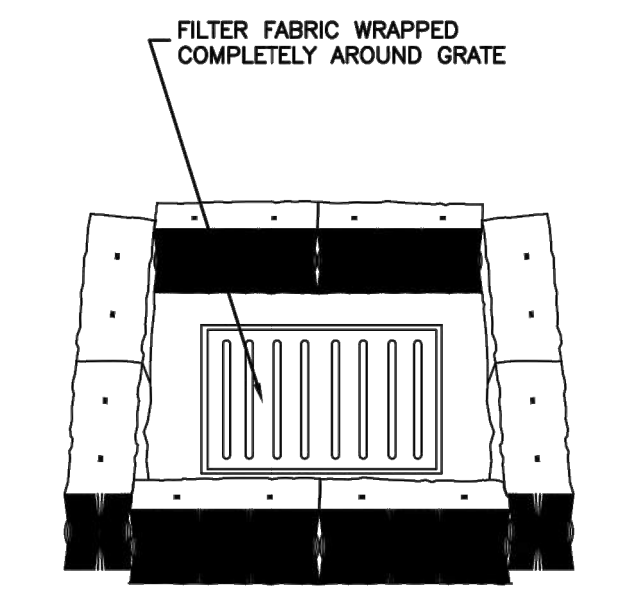
SECTION A-A

**(C) PROPANE TANK PIT**  
 VAR NTS

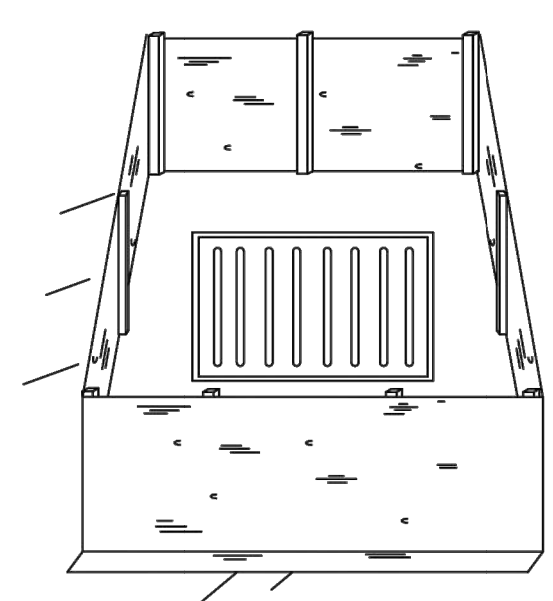


**(D) SERVICE LATERAL DETAIL**  
 VAR NTS

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



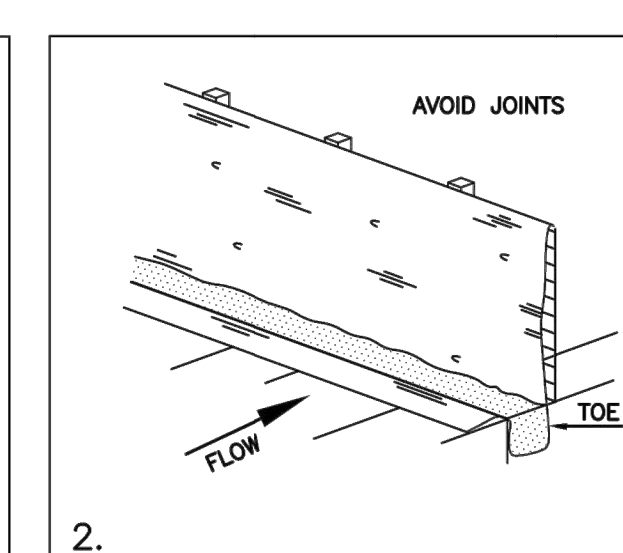
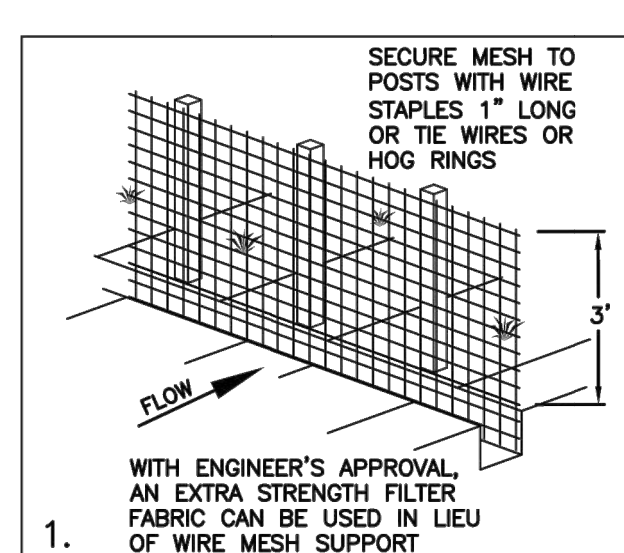
**STRAW BALE BARRIER**  
 (PLAN No. 121)



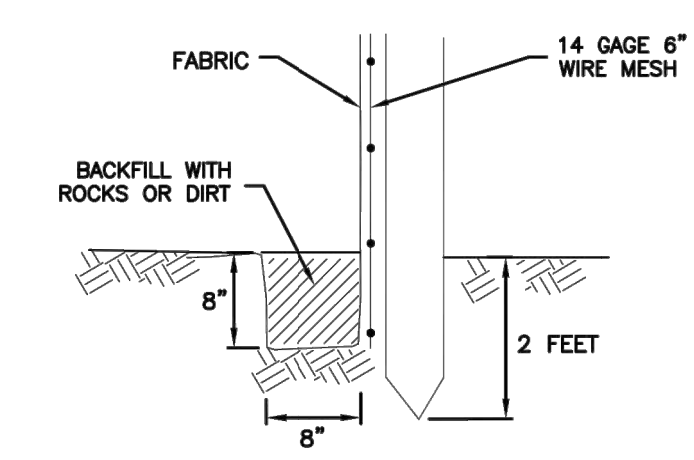
**SILT FENCE**  
 (PLAN No. 122)

**Inlet protection - fence or straw bale**  
 February 2006 15 Plan 124 Sheet 3 of 3

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



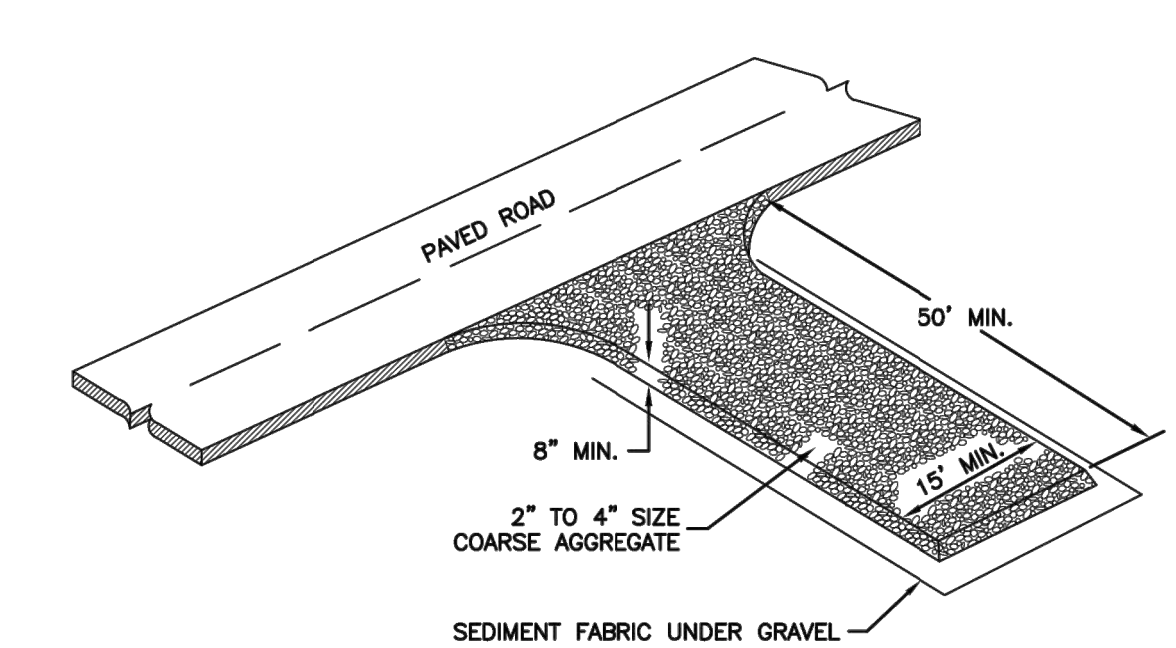
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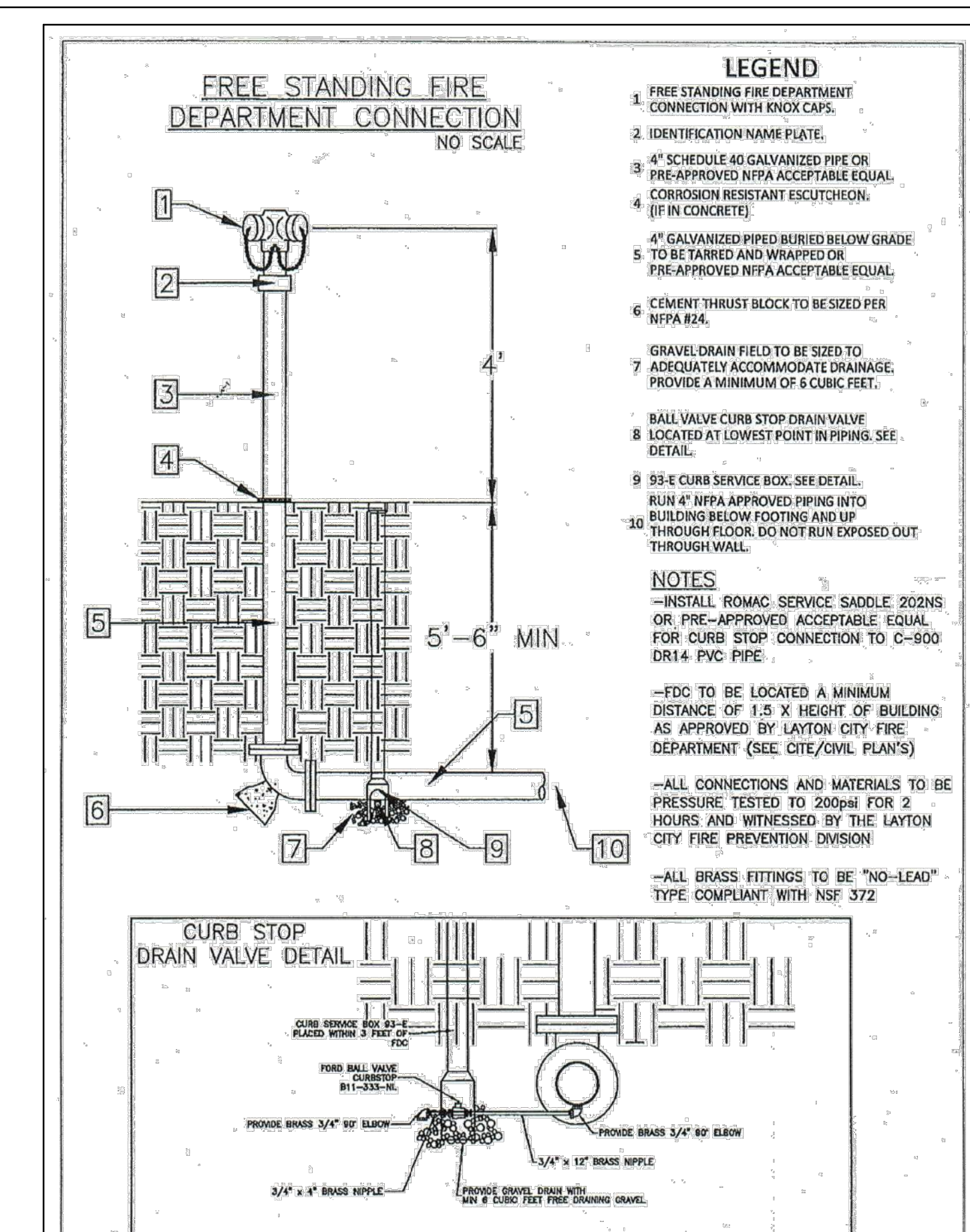
TOE DETAIL

**Silt fence**  
 February 2006 7 Plan 122

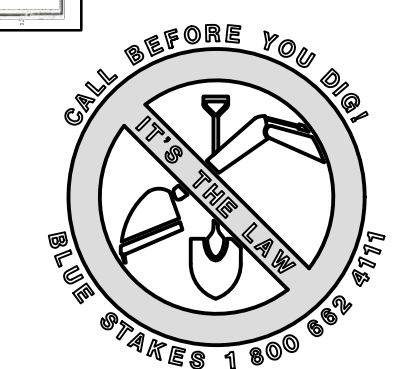
NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



**Stabilized roadway entrance**  
 February 2006 19 Plan 126



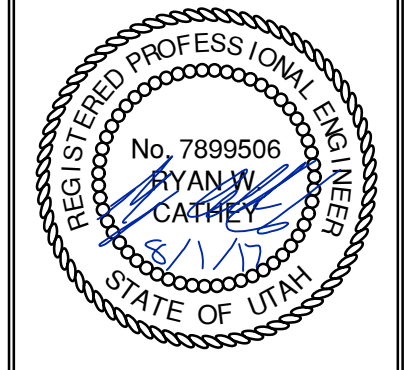
**(E) FIRE DEPARTMENT CONNECTION**  
 VAR NTS



NO.	DATE	BY	REVISIONS

**HORIZON NEIGHBORHOOD PRUD**  
 DETAILS

**TALISMAN**  
 CIVIL CONSULTANTS  
 MURRAY, UT 84407  
 5217 SOUTH STATE STREET, SUITE 200  
 801743.8800 TEL. 801743.0800 FAX



SHEET NUMBER	<b>6.00</b>
SCALE	VERTICAL: 1" = N/A HORIZONTAL: 1" = N/A
JOB NUMBER	<b>SLB0793</b>

DATE SUBMITTED: 08.01.2017

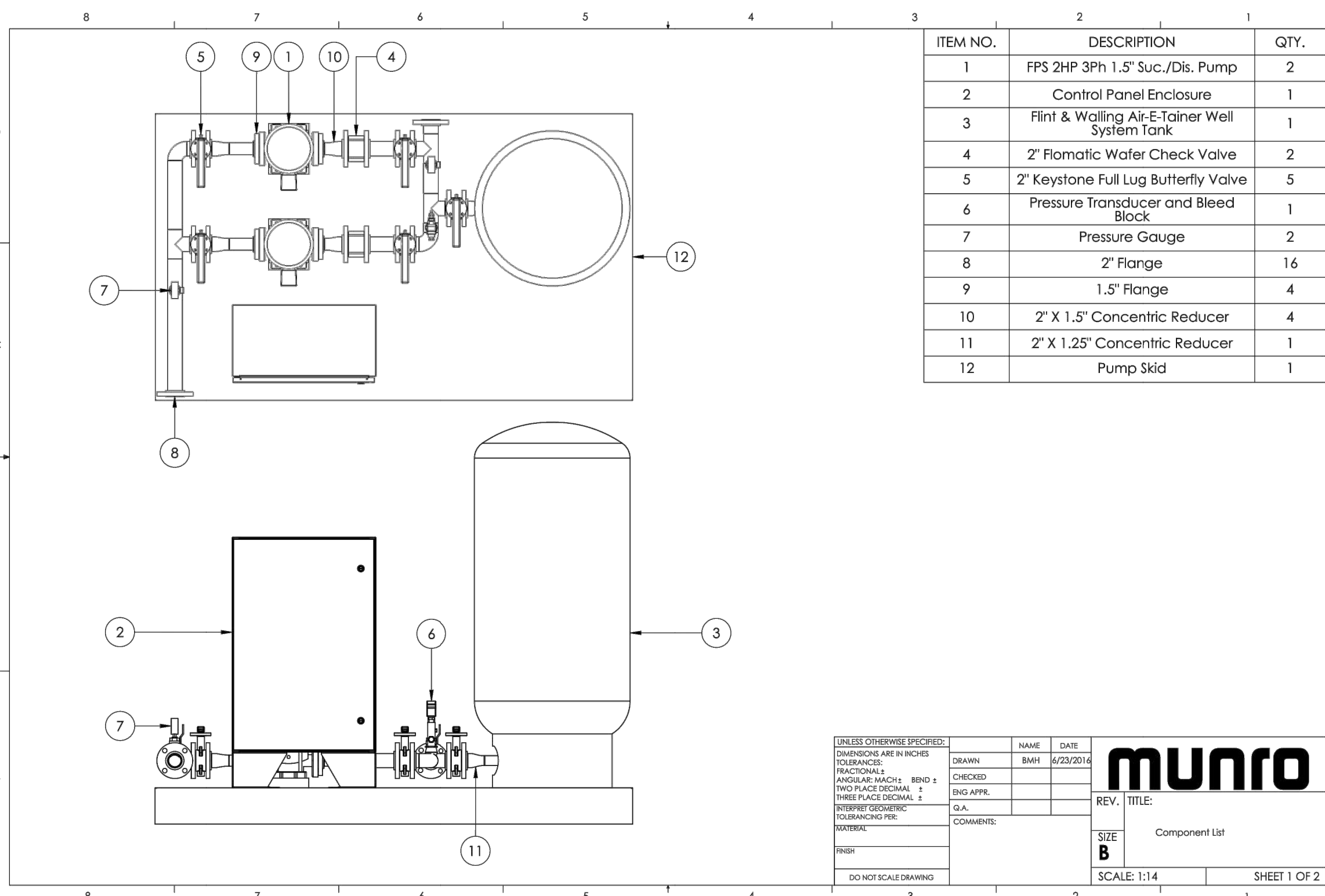
PREPARED FOR: SUMMIT POWDER MOUNTAIN

MURRAY, UT 84407

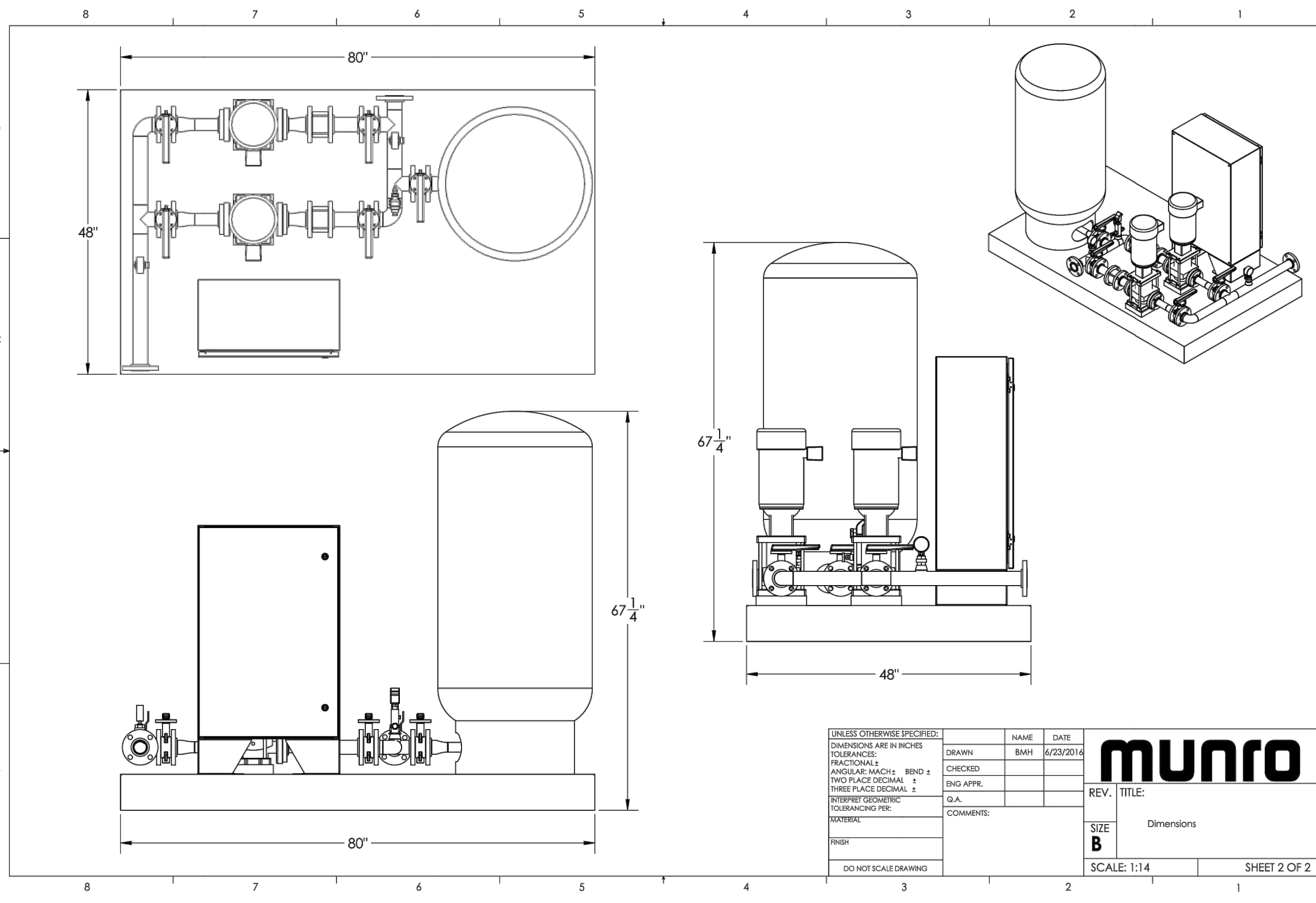
5217 SOUTH STATE STREET, SUITE 200  
 801743.8800 TEL. 801743.0800 FAX

SHEET NUMBER  
**6.00**  
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**SLB0793**

DATE: 8/7/17 TIME: 2:45:19 PM DRAWING NAME: 601 - DETAILS.DWG  
 SERVER: NONE PLOT: 24-38 LAYOUT: LAYOUT1  
 PATH: N:\S\B0793\CAD\HORIZON VILLAGE\VP DESIGNED: MURRAY, UT 84707  
 REV: 001



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± .005 DECIMAL ± .010 HOLE ± .010 FITTING ± .010 WELDING ± .010 AS NOTED	DESIGNER: MURRAY, UT 84707 CHECKED: DATE: 8/22/2014	NAME: MURRAY, UT 84707 DATE: 8/22/2014	REV. TITLE: Component List
--	---	---	----------------------------



### Pump Data Sheet - Franklin Electric

Company: NVS  
 Name: FPS 2HP 3Ph 1.5" Suc./Dis. Pump  
 Date: 6/21/2016

**Pump:**  
 Size: SVR 2-8 stage  
 Type: Multi-Stage  
 Synch Speed: 3600 rpm  
 Curve:  
 Specific Speeds:  
 Dimensions:

**Search Criteria:**  
 Flow: 30 US gpm  
 Head: 85 ft  
 Fluid:  
 Temperature: 60 °F  
 Vapor Pressure: 0.2563 psi a  
 Air Pressure: 14.7 psi a  
 Density: 62.37 lb/ft³  
 Viscosity: 1.105 cP  
 NPSHr: ---

**Motor:**  
 Standard: ---  
 Enclosure: ---  
 Sizing Criteria: none specified  
 Speed: ---  
 Frame: ---

**Pump Limits:**  
 Temperature: ---  
 Pressure: ---  
 Sphere Size: ---  
 Power: ---  
 Eye Area: ---

**Duty Point:**  
 Flow: 33.2 US gpm  
 Head: 104 ft  
 Eff: 54%  
 Power: 1.6 hp  
 NPSHr: 7.44 ft

**Design Curve:**  
 Shutoff Head: 162 ft  
 Shutoff GP: 70.2 psi  
 Min Flow:  
 BEP: 56.2% @ 26.3 US gpm  
 NOL Power:  
 1.7 hp @ 44 US gpm

**Max Curve:**  
 Max Power:  
 4.49 hp @ 44 US gpm

Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
36	3450	93.1	52	1.63	10.5
30	3450	113	55	1.54	5.74
24	3450	129	55	1.41	3.52
18	3450	141	51	1.26	2.74
12	3450	150	43	1.05	2.62

Selected from catalog: FECentrifugal 60 Vers: 1.3

### AIR-E-TAINER® WELL SYSTEM TANKS

Zoeller Family of Water Solutions™

- In-line tanks pre-charged for 30-50 pressure switch - Vertical tanks pre-charged for either 30 - 50 or 40 - 60 Pressure switch
- 100 PSI maximum working pressure
- Powder-coated exterior and interior
- Butyl rubber parabolic diaphragm
- 5 year Limited Warranty

In-line tanks: 132477  
 Vertical Tanks: 132661, 132662, 132663, 132664, 132665, 132666, 132667

#### AIR-E-TAINER® PRE-PRESSURIZED WELL SYSTEM TANKS

Part No.	Total Tank Vol. Gallons	Drawdown - Gallons by PSI Settings**	Approx. Size In. Dia x Ht.	Ship Wt Lbs	NPT Size MTL	Factory Precharge PSIG	Max Working Pressure (PSI)	Max Working Temp
131009	2	0.7	8-1/4 x 10-1/8	5	3/4" M	29	100	140
132477	4.6	1.6	11 x 14-3/4	9	3/4" M	28	100	140
132661	14	5.2	15-3/8 x 24-3/4	25.5	1" F	38	100	200
132662	20	7.4	15-3/8 x 32-1/4	30	1" F	38	100	200
132663	36	13.3	20 x 38-5/8	45	1" F	38	100	200
132664	52	19.2	23-3/8 x 38-5/8	77	1-1/4" F	38	100	200
132665	66	23.9	23-3/8 x 48-5/8	97	1-1/4" F	38	100	200
132666	86	31.8	26 x 50	105	1-1/4" F	38	100	200
132667	119.5	44	32 x 61-1/4	165	1-1/4" F	38	100	200

\*\*In keeping with current industry standards, drawdown factors are based on Boyl's law. Actual drawdowns will vary depending upon system variables, including the accuracy and operation of the pressure switch and gauge and operating temperature of the system.  
 Caution: Install a pressure relief valve on any installation where the pump pressure can exceed the tank's maximum working pressure.  
 NOTE: Pre-charged tanks cannot ship via air freight.

### MULTI-STAGE PUMPS VERTICAL VR SERIES

#### DIMENSIONS SVR PUMP END AND MOTOR

**Pump End Dimensions (in)**

Stages	HP	LF FT	Model No.
2	1	13.49	SVR2-60 N
3	1.5	14.44	SVR3-60 N
4	2	14.99	SVR4-60 N
5	3	15.93	SVR5-60 N
6	3	17.29	SVR6-60 N
7	5	18.25	SVR7-60 N
8	5	19.19	SVR8-60 N

**Pump End Dimensions (in)**

Stages	HP	LF FT	Model No.
9	5	20.14	SVR9-60 N
10	5	21.08	SVR10-60 N
11	7.5	21.54	SVR11-60 N
12	7.5	22.48	SVR12-60 N
13	7.5	23.45	SVR13-60 N
14	7.5	24.37	SVR14-60 N
15	7.5	25.31	SVR15-60 N

**Motor Dimensions (in)**

Phase	HP	Frame	Standard Efficiency TEFC			Premium Efficiency TEFC			Phase	Standard Efficiency TEFC			Premium Efficiency TEFC				
			Volts	L2	M	D1	Volts	L2		M	D1	Volts	L2	M	D1		
1	1	56C	112.2	5.06	6.19	112.2	5.06	6.19	3	115/230	12.75	5.06	6.19	115/230	12.75	5.06	6.19
	1.5	56C	127.2	5.06	6.2	N/A	N/A	N/A		115/230	12.75	5.06	6.19	115/230	12.75	5.06	6.19
	2	56C	132.2	5.06	6.2	208-230/460	15.62	6.75		8.5	208-230/460	15.62	6.75	8.5	208-230/460	15.62	6.75
3	1	56C	132.2	5.06	6.2	132.2	5.06	6.2	1	230	12.75	5.06	6.19	230	12.75	5.06	6.19
	1.5	56C	147.2	5.06	6.2	N/A	N/A	N/A		230	12.75	5.06	6.19	230	12.75	5.06	6.19
	2	56C	152.2	5.06	6.2	208-230/460	15.62	6.75		8.5	208-230/460	15.62	6.75	8.5	208-230/460	15.62	6.75

NOTE: Dimensions for round flange units are for estimating purposes only.

### AIR-E-TAINER® WELL SYSTEM TANKS

#### Air-E-Tainer® Features

- AIR CHARGE VALVE**  
 • Conveniently located for easy pressure adjustment  
 • Projection-welded for durability
- DESIGNER FINISH**  
 • High gloss exterior powder coat  
 • Provides positive protection against corrosion and UV rays
- BUTYL RUBBER PARABOLIC DIAPHRAGM**  
 • Eliminates rubbing on the tank wall or rolling over on itself
- STEEL SHELL**
- STEEL RETAINING RING**
- POWDER-COATED WATER CHAMBER**  
 • Proven protection against internal corrosion
- CORROSION-RESISTANT BASE**  
 • High-impact polymer material  
 • Strong and stable for long life  
 • Base rotates for easy alignment to pipe connection  
 • Slotted and noted for air flow, reduced condensation build-up

#### Standard 40/60 PSI System

These illustrations show the operation of the Air-E-Tainer® tank in a typical 30/50 pressure range.

A. Tank is pre-pressurized with air at the factory.  
 B. When pump starts, water enters the reservoir. At 50 psig, system is filled. Pump shuts off.  
 C. When water is demanded, pressure in the air chamber forces water into the system. Pump turns on.  
 D. When pressure in tank drops to pressure switch cut-in point (30 psig) pump refills the tank as in illustration B.

Flint & Walling | 95 North Oak Street | Kendallville, IN 46755  
 800-345-9422 | www.flintandwalling.com

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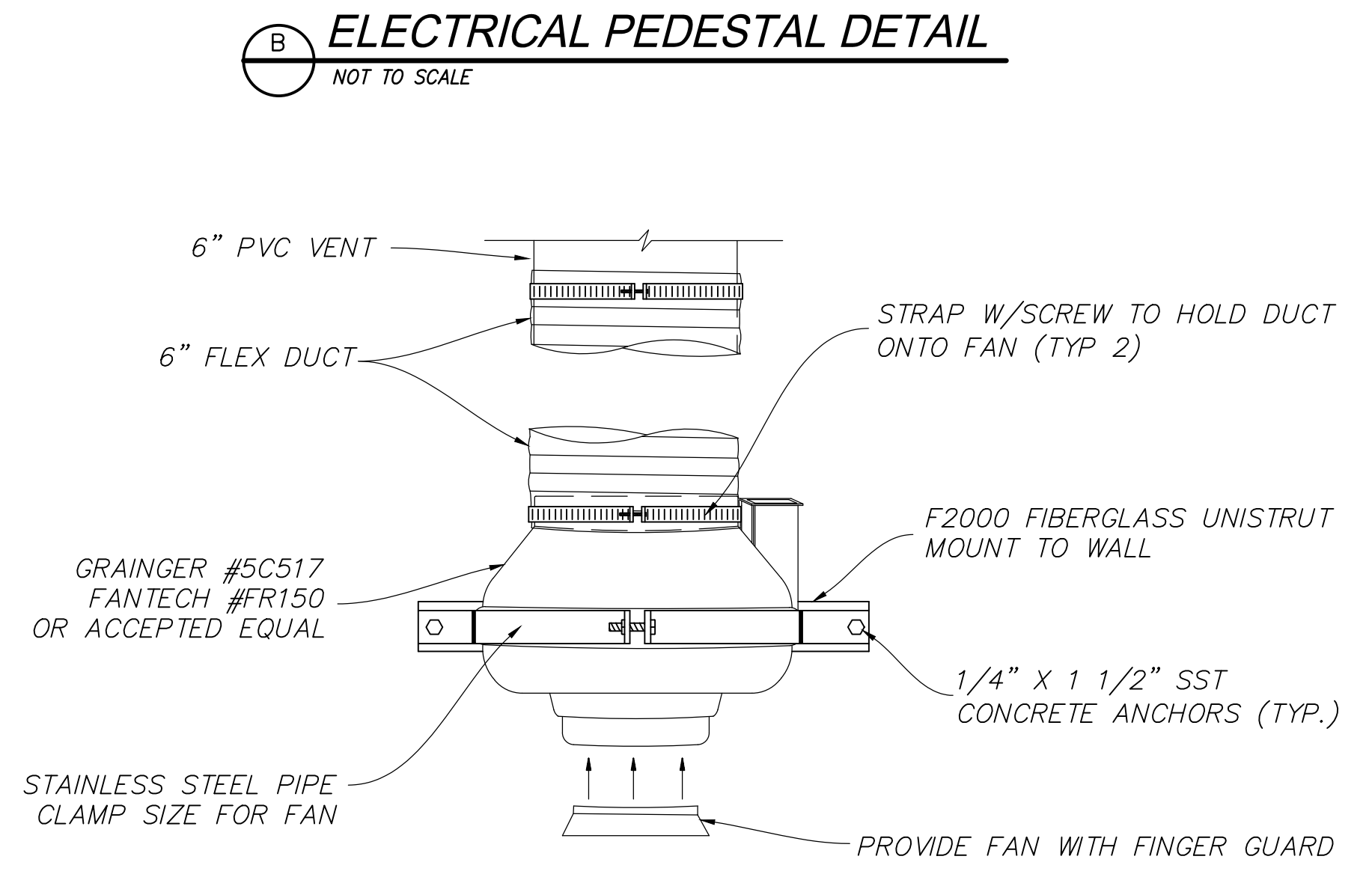
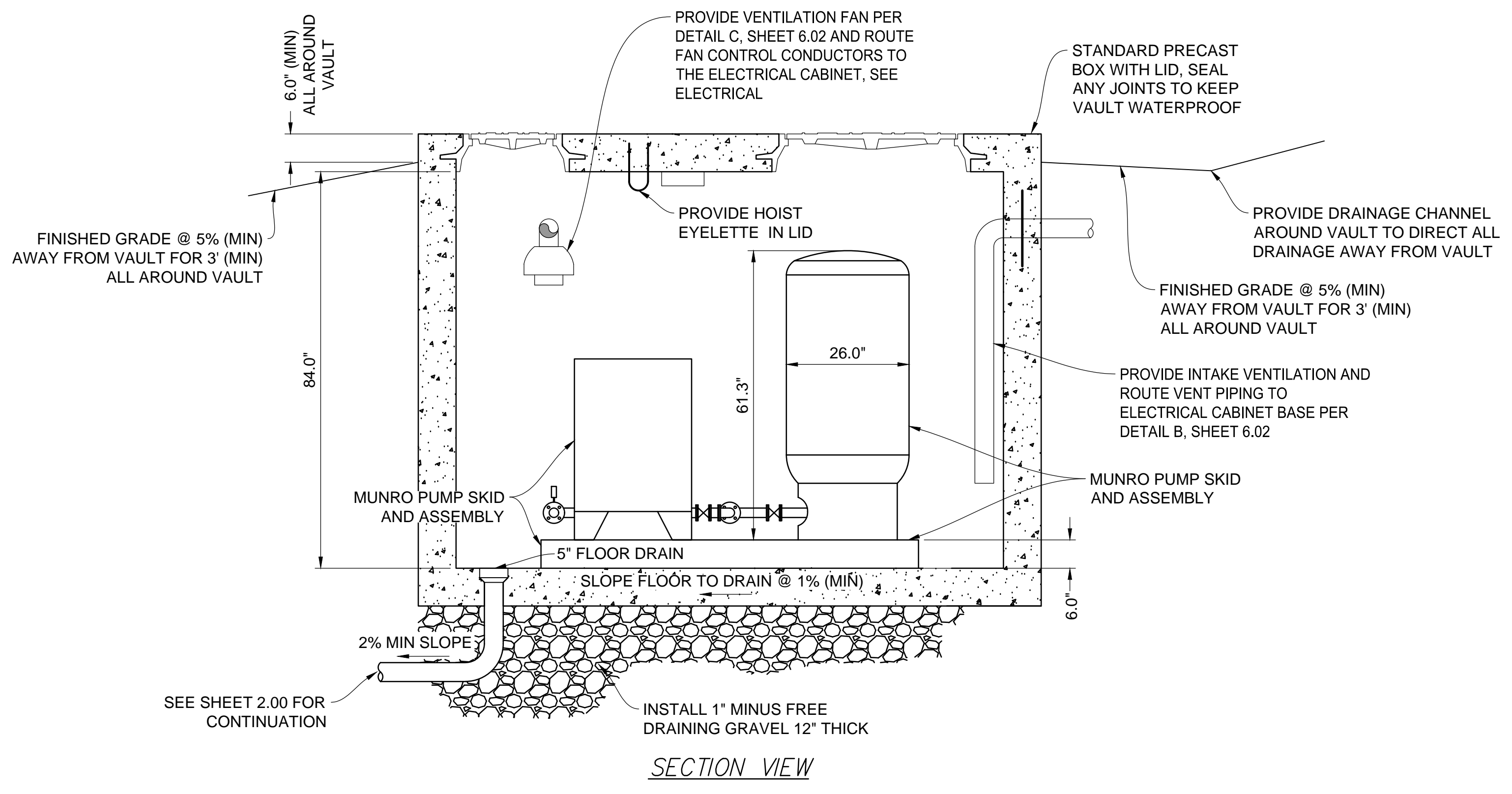
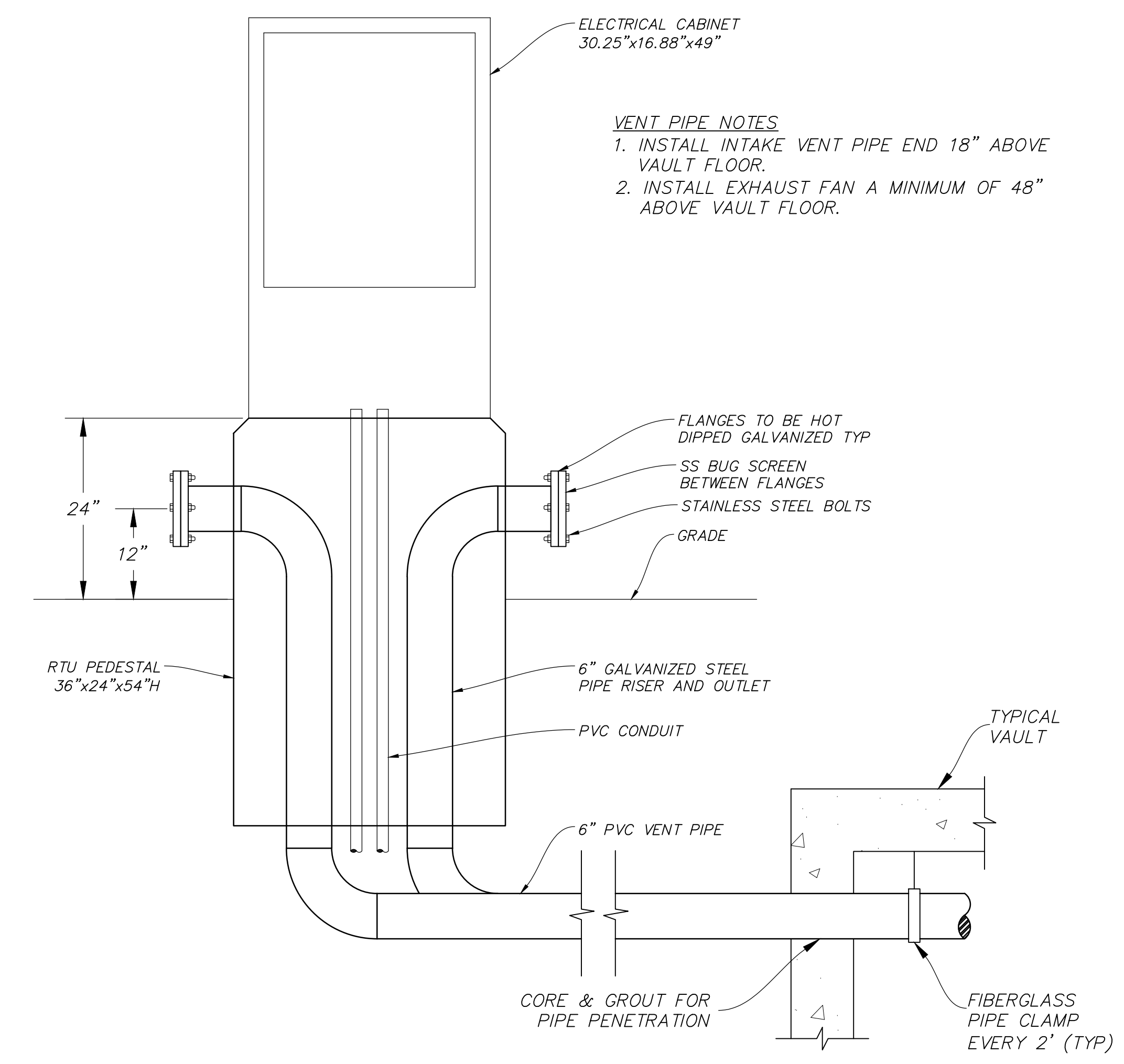
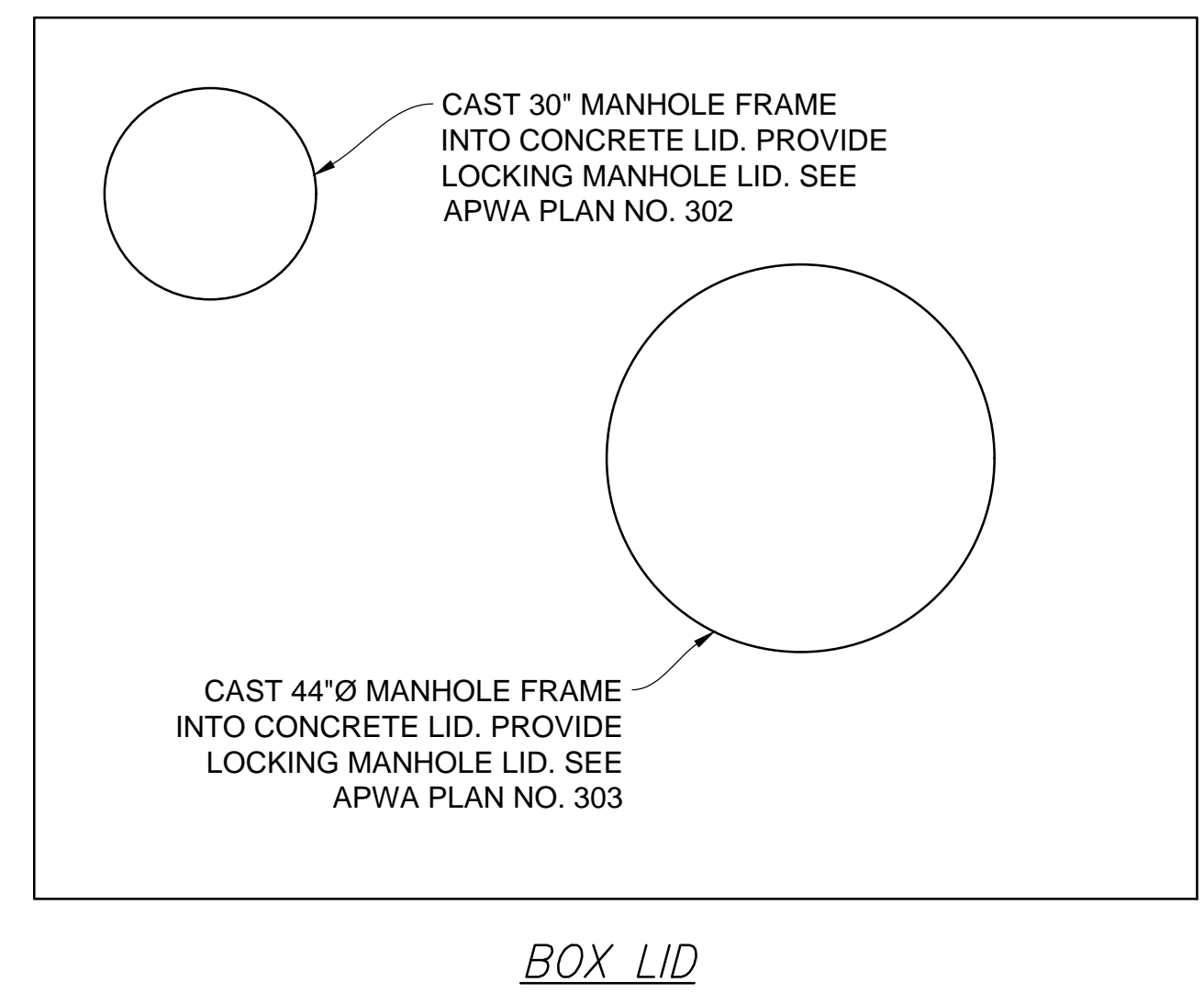
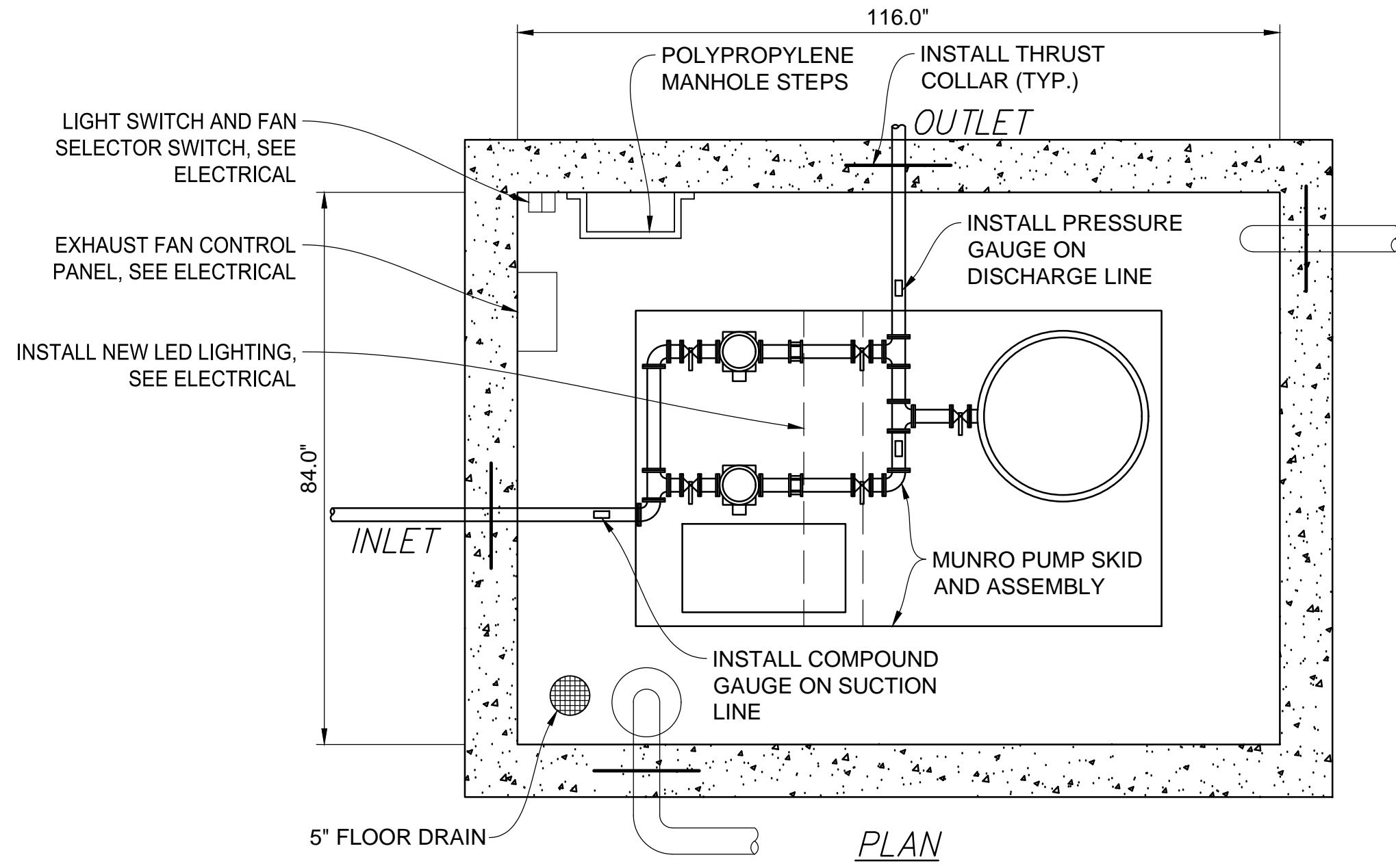
REGISTERED PROFESSIONAL ENGINEER  
 RYAN W. CATHEY  
 STATE OF UTAH  
 No. 7899506

SHEET NUMBER  
**6.01**

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

JOB NUMBER  
**SLB0793**

HORIZON NEIGHBORHOOD PRUD BOOSTER PUMP DETAILS  
 PREPARED FOR: SUMMIT POWDER MOUNTAIN  
 DATE SUBMITTED: 08.01.2017  
 MURRAY, UT 84707  
 6267 SOUTH STATE STREET, SUITE 200  
 801743.8000 TEL. 801743.0800 FAX  
 TALISMAN CIVIL CONSULTANTS  
 8/21/17  
 SHEET 2 OF 2



**A BOOSTER PUMP VAULT**  
NOT TO SCALE

**B ELECTRICAL PEDESTAL DETAIL**  
NOT TO SCALE

**C FAN DETAIL**  
NOT TO SCALE

**HORIZON NEIGHBORHOOD PRUD  
BOOSTER PUMP DETAILS**

**TALISMAN**  
CIVIL CONSULTANTS  
MURRAY, UT 84407  
6217 SOUTH STATE STREET, SUITE 200  
801743.8000 TEL. 801743.0800 FAX

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

SHEET NUMBER	<b>6.02</b>
SCALE	VERTICAL: 1" = N/A HORIZONTAL: 1" = N/A
JOB NUMBER	<b>SLB0793</b>

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.

DATE SUBMITTED: 08.01.2017

PREPARED FOR: SUMMIT POWDER MOUNTAIN



DATE: 8/7/17 TIME: 2:41:03 PM DRAWING NAME: 603 - DETAILS.DWG  
 SERVER: NONE PAGE SETUP: P01-C30-24-38 LAYOUT: 1  
 PATN: NA0050P02 HORIZON VILLAGE W/P RESORCE: HHH PROJ. NO: HHH

**OPTIONS:**  DH071 (HARD WIRED LEVEL CONTROLS)  
 DR071 (WIRELESS LEVEL CONTROLS)

FIELD JOINT REQUIRED FOR MODELS DH071-129 / DR071-129 & DH071-160 / DR071-160

GASKETED LID, HDPE  
 STRAIN RELIEF CORD CONNECTOR  
 PROTECTIVE CABLE SHROUD (HDPE)  
 POWER/ALARM CABLE 12-6 W/GND.  
 E/ONE EQUALIZER  
 INTERNAL WELL VENT 2.0" DIA.  
 INLET, GROMMET TO ACCEPT 4.50" O.D. PVC PIPE (STANDARD). DUST COVER SUPPLIED FOR SHIPMENT (NOT SUITABLE FOR BURIAL).  
 ALARM ON OFF  
 DISCHARGE 1-1/4" FPT  
 1-1/4" DISCHARGE LINE (304 S.S.)  
 CHECK VALVE (NORYL)  
 ANTI-SIPHON VALVE (NORYL)  
 HDPE TANK, CORRUGATED 70 GALLON CAPACITY  
 SEMI-POSITIVE DISPLACEMENT TYPE PUMP, EACH DIRECTLY DRIVEN BY A 1 HP MOTOR

41.6 in 1067 mm TO DISCHARGE  
 38.0 in 914 mm TO INLET  
 26 in 650 mm  
 18 in 447 mm  
 32 gal. 121 L  
 14 in 345 mm  
 24 gal. 91 L  
 29.5 DIA in 749 mm

UL NSF SP

AD	CH	10/20/10	D	
DR BY	CHK'D	DATE	ISSUE	SCALE

**eone** SEWER SYSTEMS  
 MODEL DH071 / DR071  
 DETAIL SHEET  
 NA0050P02

CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTION FOR DETAILS

NOTE: DIMENSIONS ARE FOR REF ONLY

**OPTIONS:**  DH071-124 (HARD WIRED LEVEL CONTROLS)  
 DR071-124 (WIRELESS LEVEL CONTROLS)

GRADE MUST SLOPE AWAY FROM STATION

76" COVER OVER DISCH  
 84" INVERT DEPTH  
 123.3"  
 41.8"  
 36.0"  
 DISCHARGE: 1-1/4" FEMALE PIPE THREAD  
 INLET: EPDM GROMMET FOR 4" DWV PIPE (STANDARD)  
 Ø 29.5"

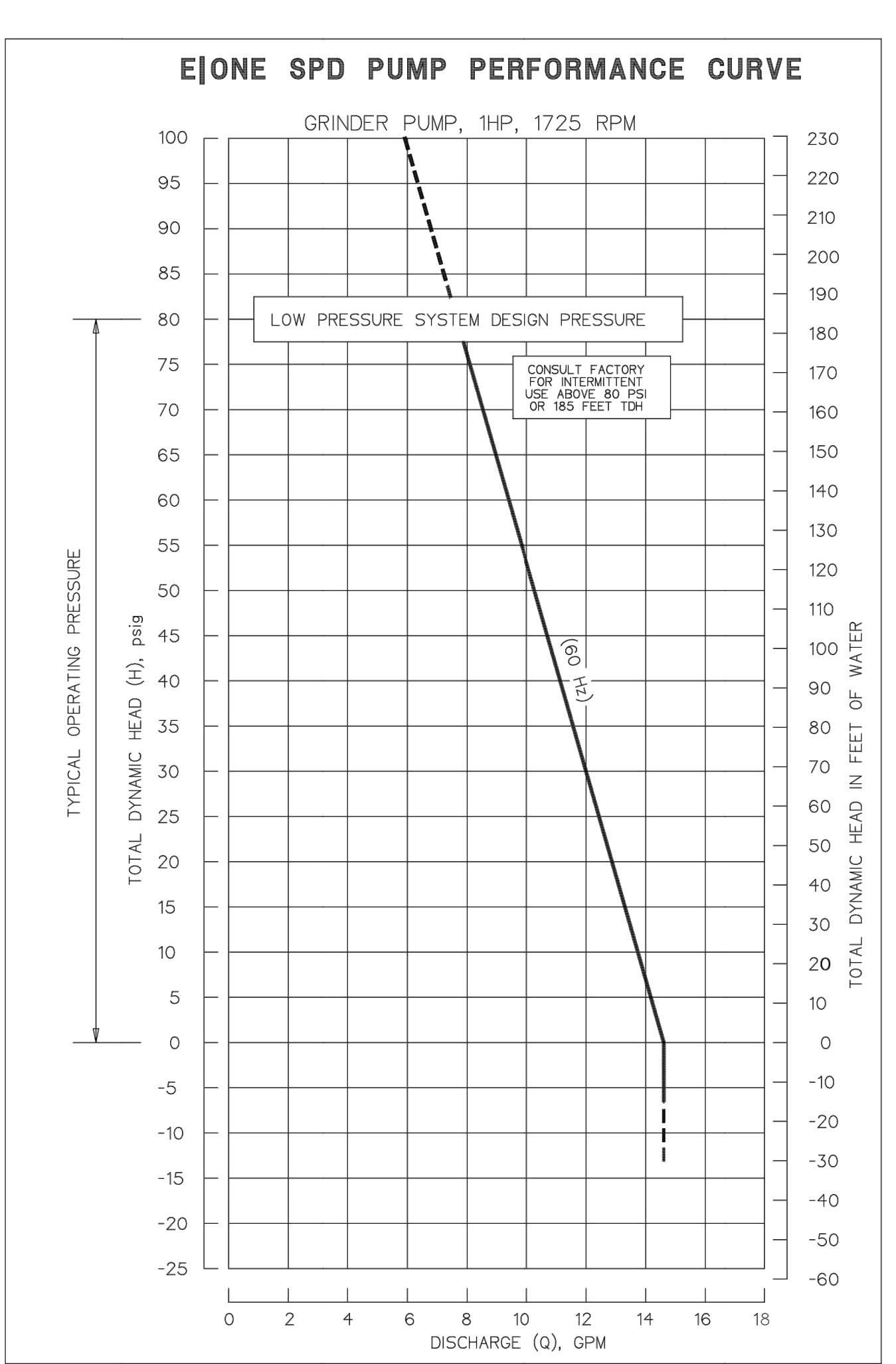
CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REF ONLY

UL NSF SP

AD	CAH	07/13/07	B	1/16
DR BY	CHK'D	DATE	ISSUE	SCALE

**eone** SEWER SYSTEMS  
 MODEL DH071-124 / DR071-124  
 NA0050P07



**OPTIONS:**  DH151 (HARD WIRED LEVEL CONTROLS)  
 DR151 (WIRELESS LEVEL CONTROLS)

FIELD JOINT REQUIRED FOR MODELS DH151-129 / DR151-129 & DH151-160 / DR151-160

GASKETED LID, HDPE  
 STRAIN RELIEF CORD CONNECTOR  
 E/ONE EQUALIZER  
 DUAL WALL CORRUGATED HDPE ACCESSWAY  
 INTERNAL WELL VENT 2.0" DIAMETER  
 INLET, GROMMET TO ACCEPT 4.50" O.D. PVC PIPE (STANDARD). DUST COVER SUPPLIED FOR SHIPMENT (NOT SUITABLE FOR BURIAL).  
 ALARM ON OFF  
 DISCHARGE 1 1/4" FPT  
 1 1/4" DISCHARGE LINE (304 S.S.)  
 CHECK VALVE (NORYL)  
 ANTI-SIPHON VALVE (NORYL)  
 HDPE TANK, 1/2" NOMINAL WALL THICKNESS 150 GALLON CAPACITY  
 SEMI-POSITIVE DISPLACEMENT TYPE PUMP DIRECTLY DRIVEN BY A 1 HP MOTOR

43.9 in 1115 mm  
 38.4 in 975 mm  
 29 in 737 mm  
 17 in 432 mm  
 21 in 534 mm  
 84 gal 318 L  
 66 gal 250 L  
 38.8 in 984 mm

UL NSF SP

AD	CH	10/20/10	D	
DR BY	CHK'D	DATE	ISSUE	SCALE

**eone** SEWER SYSTEMS  
 MODEL DH151 / DR151  
 DETAIL SHEET  
 NA0051P02

CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

**OPTIONS:**  DH151-129 (HARD WIRED LEVEL CONTROLS)  
 DR151-129 (WIRELESS LEVEL CONTROLS)

GRADE MUST SLOPE AWAY FROM STATION

78" COVER OVER DISCH  
 86" INVERT DEPTH  
 127.1"  
 43.9"  
 38.4"  
 DISCHARGE: 1-1/4" FEMALE PIPE THREAD  
 INLET: EPDM GROMMET FOR 4" DWV PIPE (STANDARD)  
 Ø 38.8"

DETAIL, FIELD JOINT  
 SEE INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS

CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

UL NSF SP

AD	CAH	07/13/07	C	1/16
DR BY	CHK'D	DATE	ISSUE	SCALE

**eone** SEWER SYSTEMS  
 MODEL DH151-129 / DR151-129  
 NA0051P07

**SIMPLEX SENTRY**

REDUNDANT RUN (HIGH LEVEL)  
 EXTERNAL VISUAL & AUDIBLE ALARM  
 EXTERNAL LATCHING MANUAL SILENCE  
 MANUAL RUN  
 PUMP RUN INDICATOR  
 CONFORMAL COATED CIRCUIT BOARD  
 PADLOCK  
 NEMA 4X ENCLOSURE ASSEMBLY  
 CORROSION PROOF THERMOPLASTIC POLYESTER APPROVED BY UL FOR ELECTRICAL CONTROL ENCLOSURE

15.42  
 11.55  
 13.84

OPTIONS:  
 ALARM CONTACTS  
 HOUR METER

TO PUMP  
 PUMP POWER  
 MANUAL RUN  
 ALARM RETURN

CE UPC® ASME A112.3.4  
 LR28268 LISTED 500D  
 UL NSF SP

AD	SM	01/9/08	D	N/A
DR BY	CHK'D	DATE	ISSUE	SCALE

**eone** SEWER SYSTEMS  
 SIMPLEX SENTRY, 120V 60Hz.  
 SINGLE POLE POWER  
 LM000327

CONTROL CABLE:  
 TYPE 1C: DIRECT BURIAL, 12AWG, SIX CONDUCTOR

PN FUNCTION 2000S EXTREME  
 1 MANUAL RUN RED BROWN  
 2 STOP BLACK RED  
 3 N WHITE BLACK  
 4 GND GREEN BROWN  
 5 ALARM FEED ORANGE YELLOW  
 6 ALARM RETURN BLUE BLUE

HORIZON NEIGHBORHOOD PRUD  
 SEWER EJECTOR DETAILS

DATE SUBMITTED: 08.01.2017

PREPARED FOR: SUMMIT POWDER MOUNTAIN

**TALISMAN** CIVIL CONSULTANTS  
 MURRAY, UT 84407

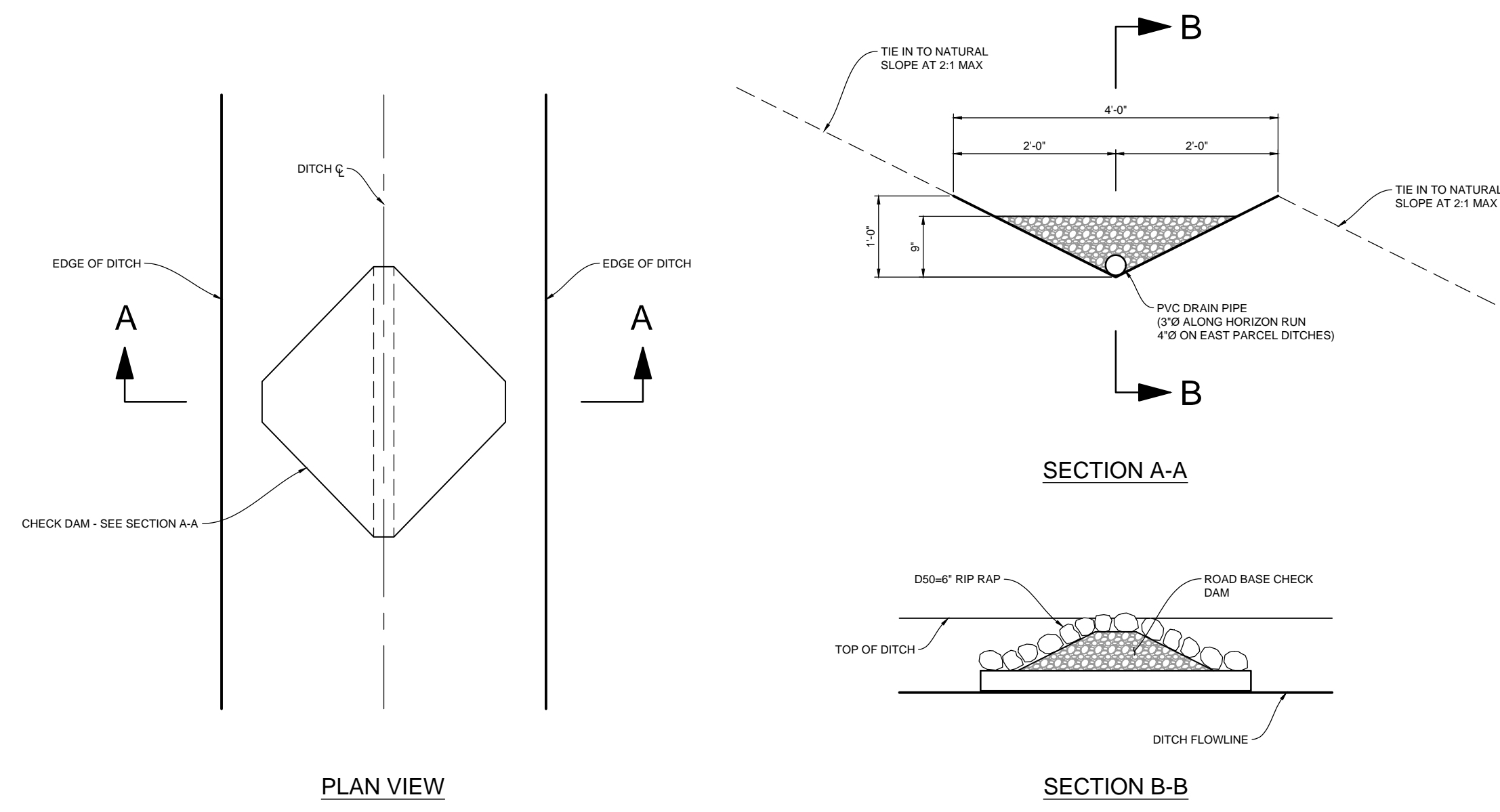
REGISTERED PROFESSIONAL ENGINEER  
 No. 7899506  
 RYAN W. CATHEY  
 STATE OF UTAH

SHEET NUMBER  
**6.03**

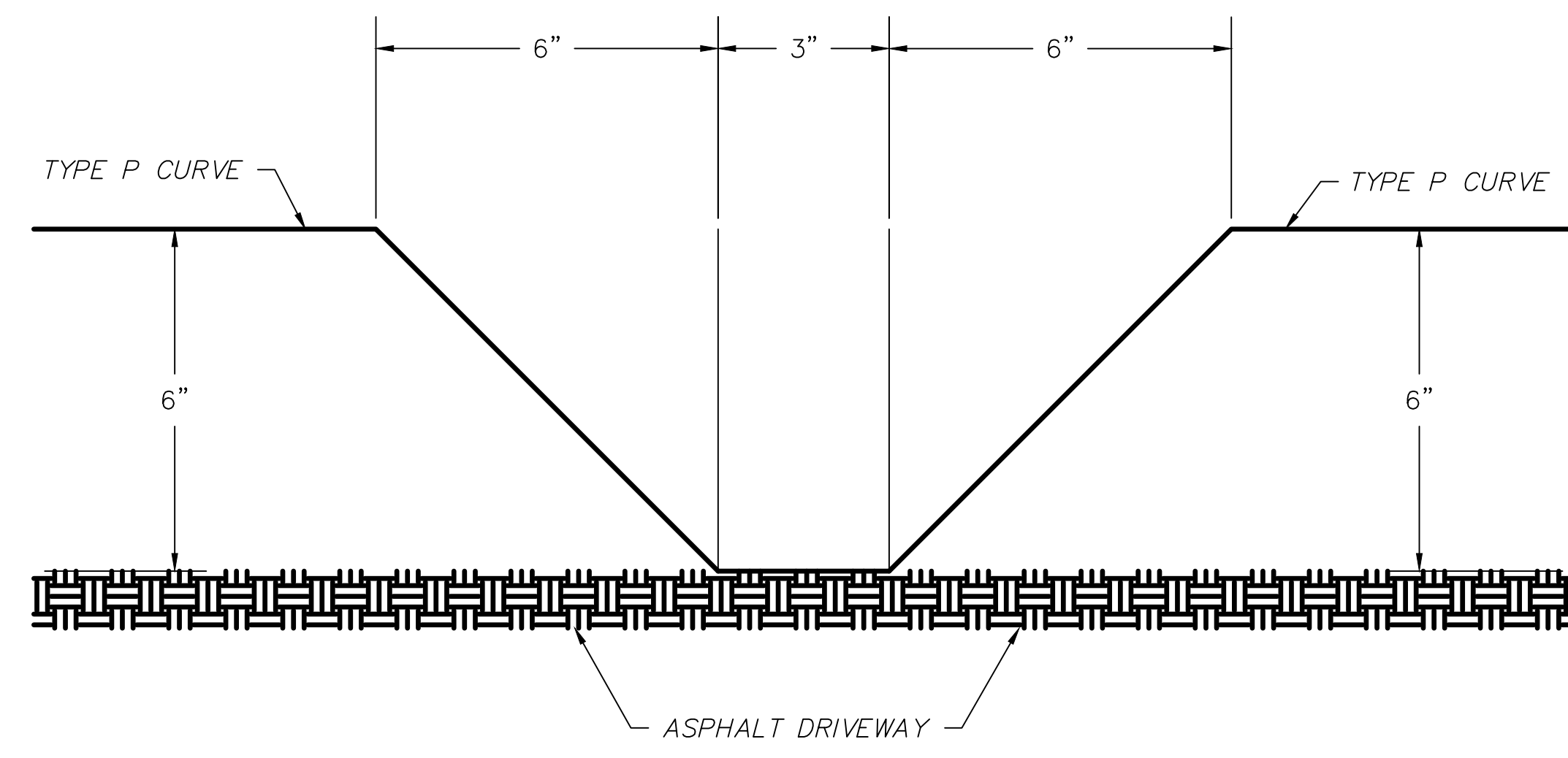
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JOB NUMBER  
**SLB0793**

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**A**  
 VAR NTS  
**CHECK DAM DETAIL**

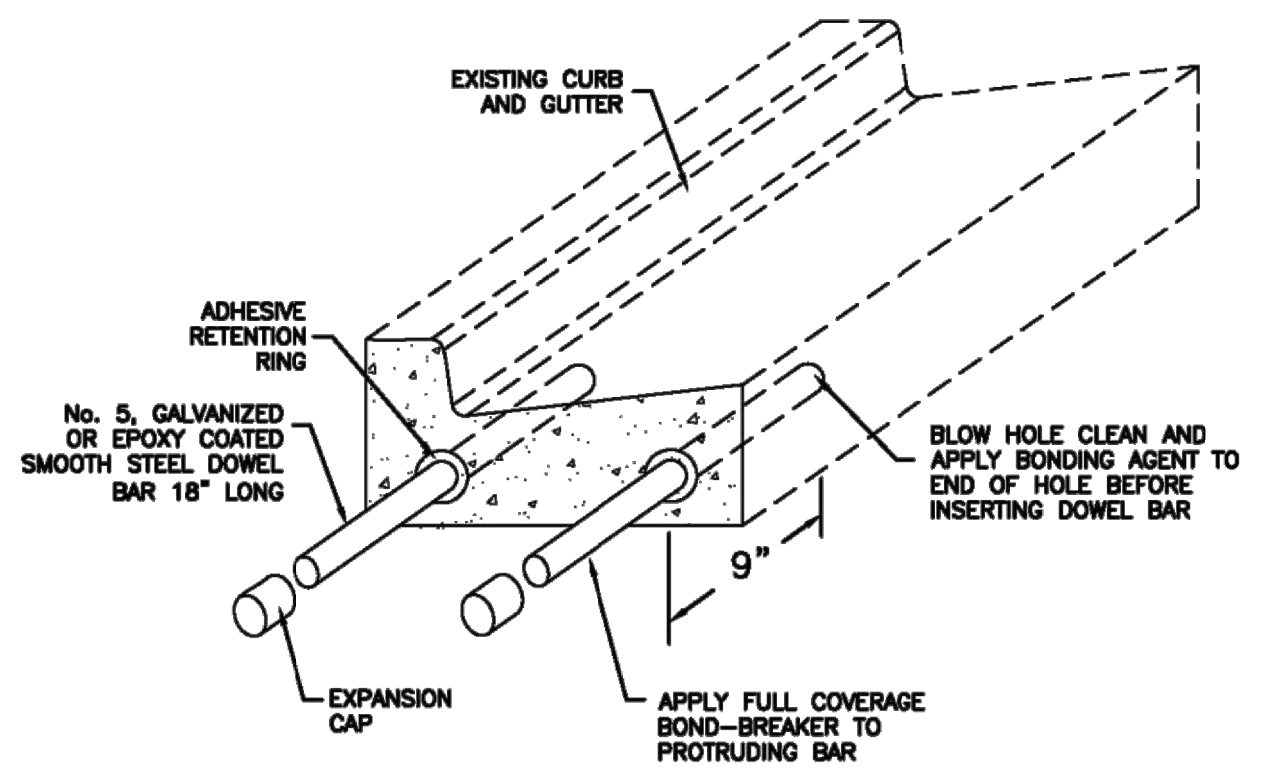


**B**  
 604 NTS  
**CURB CUT DETAIL**

**Curb and gutter connection**

- GENERAL**  
 A. Connect new curb and gutter to existing curb and gutter that has not been placed by CONTRACTOR.
- PRODUCTS**  
 A. Reinforcement: Galvanized or epoxy coated, 60 ksi yield grade steel, ASTM A 615.  
 B. Adhesive: Epoxy adhesive grout, APWA Section 03 61 00.  
 C. Bond Breaker: Paraffin wax, lithium grease, or other semi-solid, inert lubricant.  
 D. Expansion Cap: Plastic, with bar movement allowance of 1/2-inch.
- EXECUTION**  
 A. Ensure drill rigs (or jigs) are set at mid-depth of the gutter and horizontal to the surface. Make hole size large enough to account for dowel bar and adhesive.  
 B. Clean holes and dowel bars of dirt, dust and particles. Ensure coating on bars have no surface defects.  
 C. Place bonding agent in the back of each hole so adhesive flows out around each bar fully encasing it. DO NOT apply adhesive to end of the bar and then insert the bar into the hole.  
 D. Insert dowels with at least one full turning motion and if necessary, place a grout retention disk on the dowel after insertion to contain adhesive.  
 E. Apply complete coverage of bond-breaker on the protruding end of each dowel.  
 F. Install expansion caps on protruding dowel bar ends.

June 2009 32

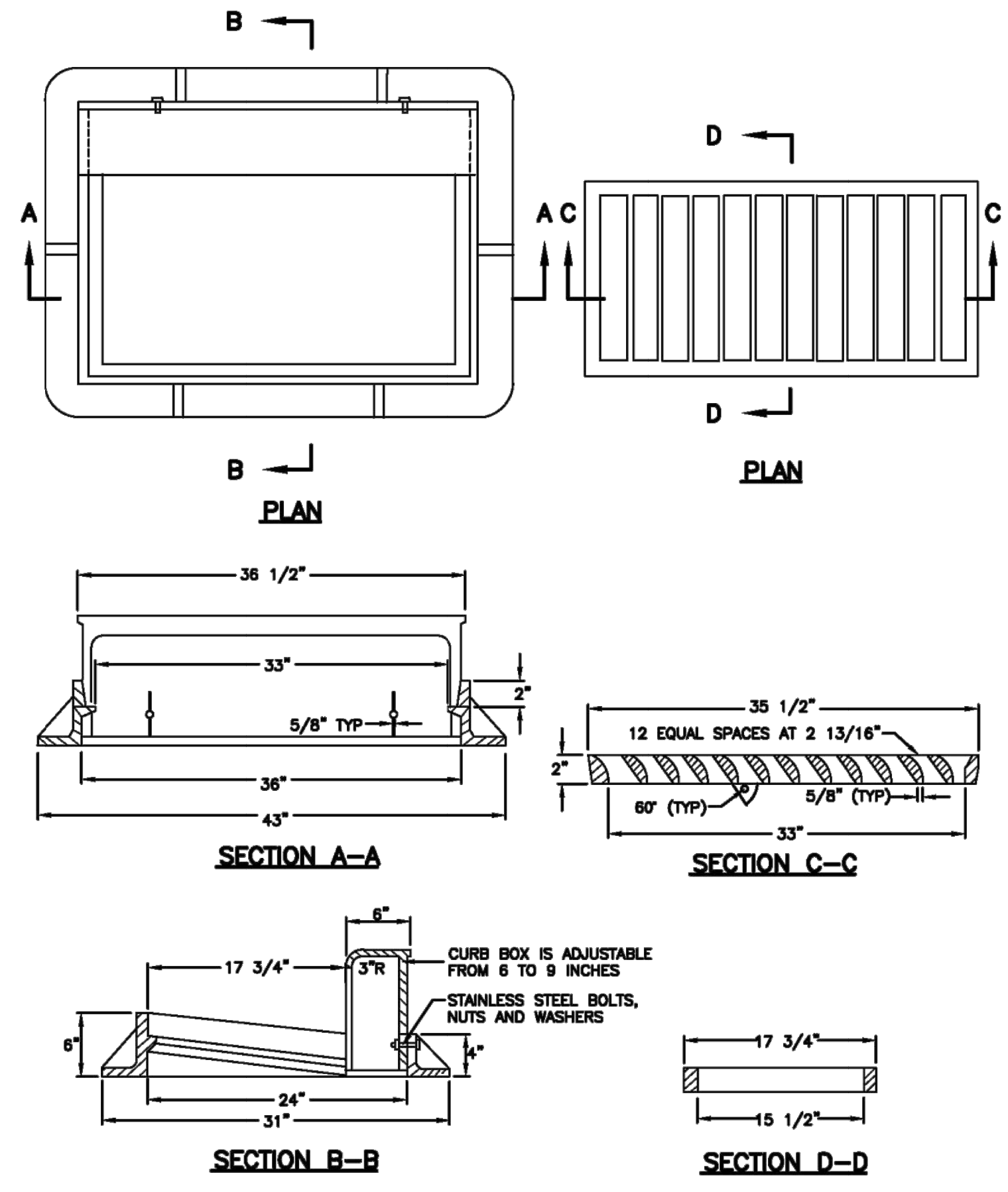


**Curb and gutter connection**

June 2009 33

**35 1/2" Grate and frame**

- GENERAL**  
 A. The grate and frame fits concrete boxes in Plan 315.
- PRODUCTS**  
 A. Castings: Grey iron class 35 minimum per ASTM A 48, coated with asphalt based paint or better.  
 B. Bolts, Nuts, Washers, Accessories: Stainless steel, APWA Section 05 05 23.
- EXECUTION** (Not used)



**35 1/2" Grate and frame**

January 1999 147

**HORIZON NEIGHBORHOOD PRUD**  
**DETAILS**

**TALISMAN**  
 CIVIL CONSULTANTS  
 MURRAY, UT 8407  
 6217 SOUTH STATE STREET, SUITE 200  
 801743.8800 TEL. 801743.0800 FAX

REGISTERED PROFESSIONAL ENGINEER  
 No. 7899506  
 YANBY  
 CATHEY  
 STATE OF UTAH

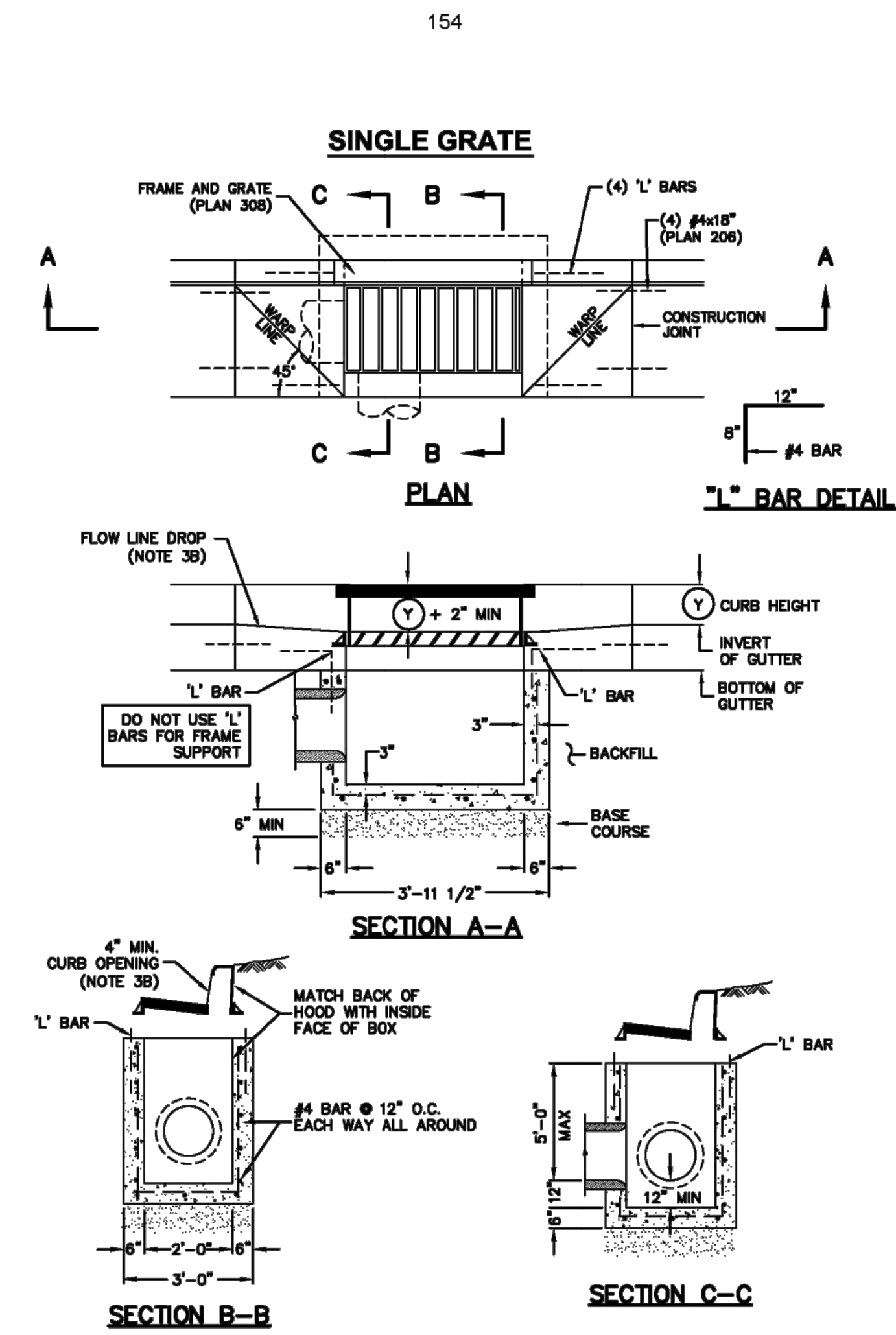
SHEET NUMBER  
**6.04**  
 SCALE  
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 HORIZONTAL: 1" = N/A  
 JOB NUMBER  
**SLB0793**

PREPARED FOR: SUMMIT POWDER MOUNTAIN DATE SUBMITTED: 08.01.2017



**Catch basin**

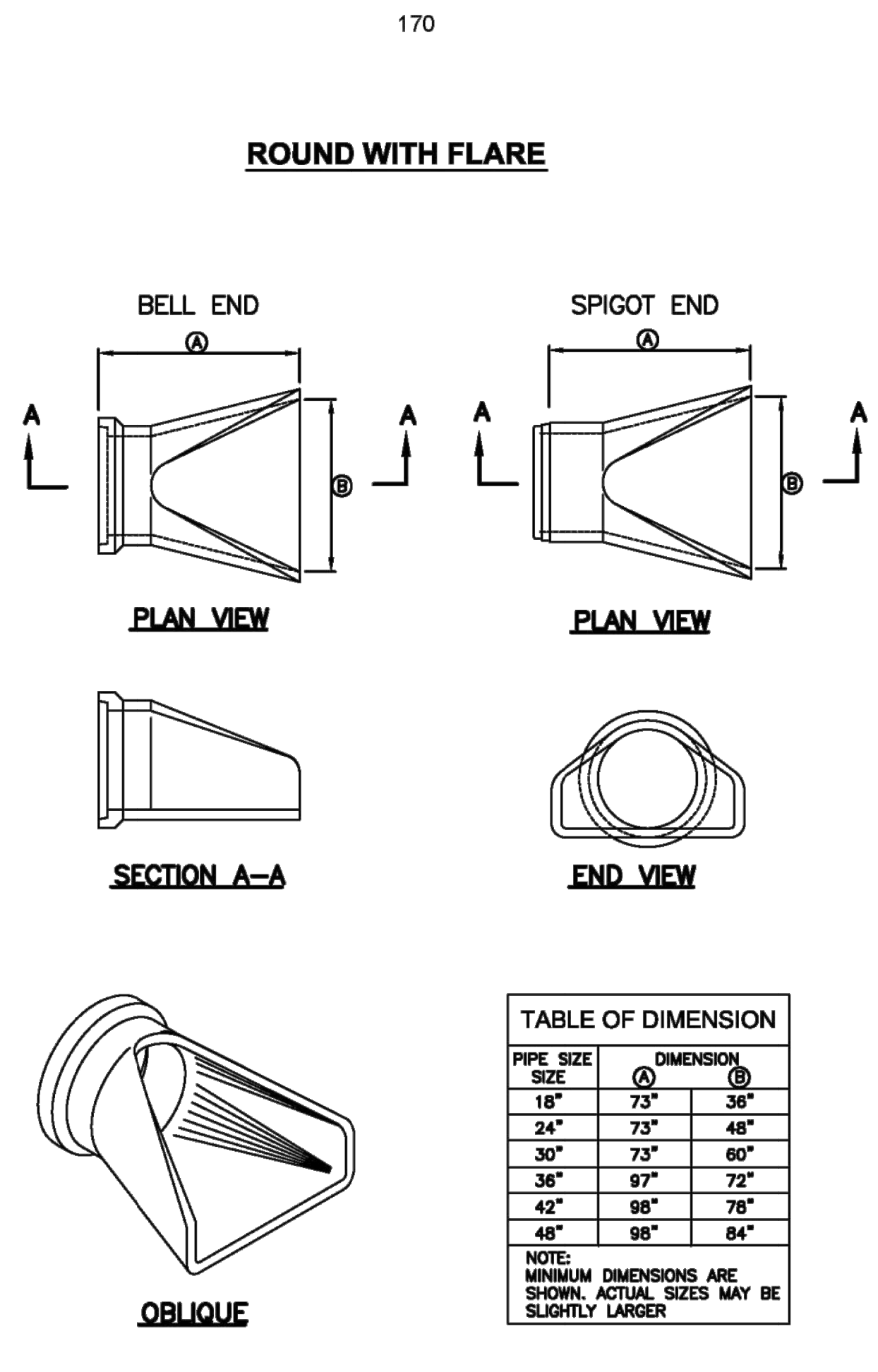
- GENERAL**
  - The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the box.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - Concrete: Class 4000, APWA Section 03 30 04.
  - Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615.
- EXECUTION**
  - Base Course Placement: APWA Section 32 11 23. 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.
  - Curb Face Opening: Make opening at least 4-inches high. Provide at least a 2-inch drop between the "warp line" in the gutter flow-line and the top of the grate at the curb face opening.
  - Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
  - Backfill: Place backfill against the basin wall. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. 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.



Plan 315  
**Catch basin**  
 155  
 Sheet 1 of 2

**Pipe outfall**

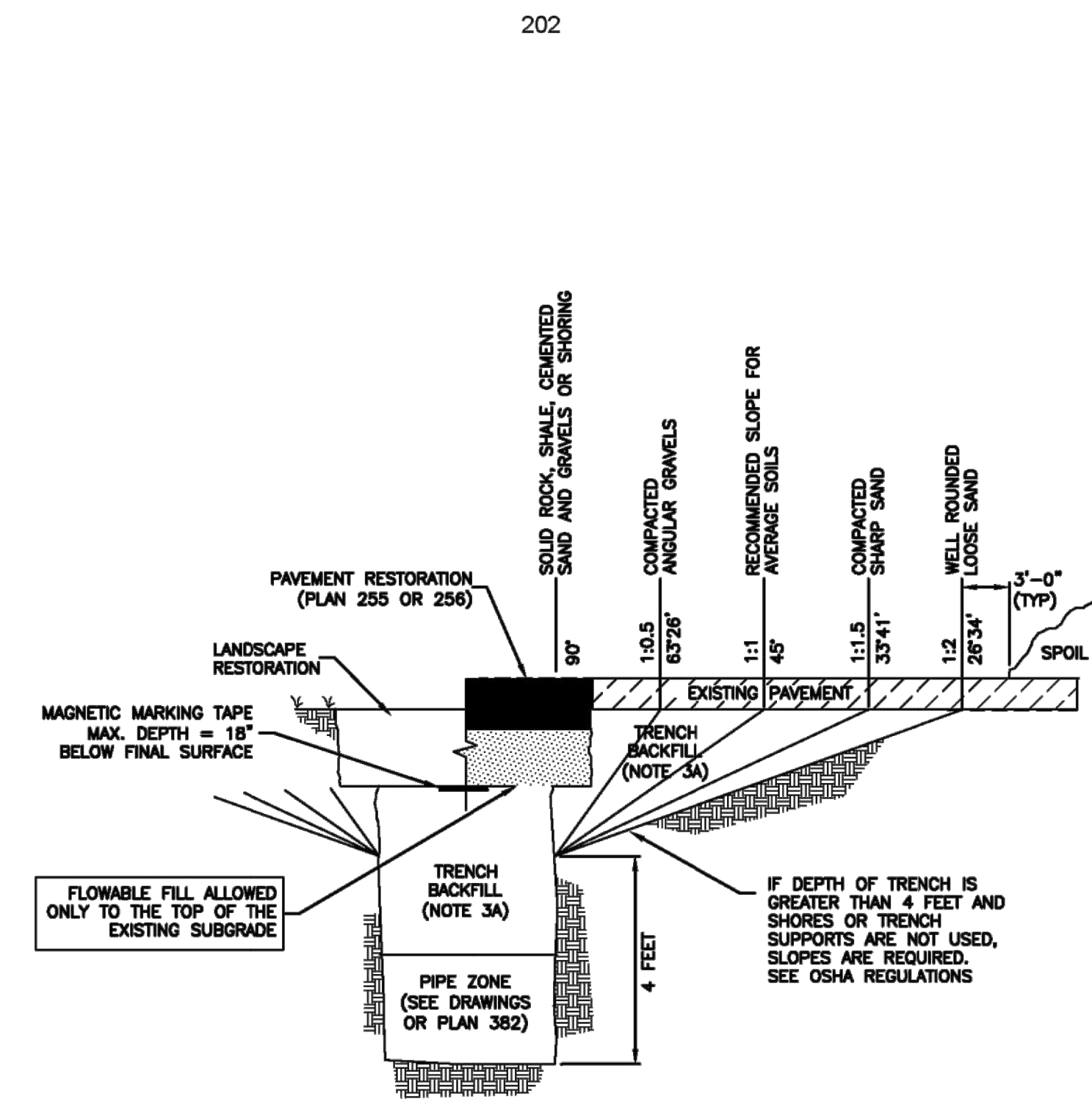
- GENERAL**
  - Round concrete pipe application.
  - Additional requirements are specified in APWA Section 33 05 02.
- PRODUCTS**
  - Use the same quality of precast end section as the pipe.
  - Use the joint material and connection that is the same as the joints in the pipeline.
- EXECUTION**
  - General dimensions and geometric shapes may vary from manufacturer to manufacturer.
  - Steel reinforcement is not required in the concrete end section shown.
  - Provide joint restraint connectors if required by ENGINEER.



Plan 323  
**Pipe outfall**  
 171  
 Sheet 1 of 3

**Trench backfill**

- GENERAL**
  - The drawing applies to backfilling the trench above the pipe zone.
- PRODUCTS**
  - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches.
  - 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.
- EXECUTION**
  - Trench Backfill:
    - DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench backfill.
    - 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.
    - Water jetting is NOT allowed.
    - 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.
  - Flowable Fill: When required, place controlled low strength material in the trench, APWA Section 31 05 15. Cure the fill before placing surface restorations.
  - Surface Restoration:
    - Landscaped Surface: Rake to match existing grade. Replace vegetation to match pre-construction conditions. Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements.
    - 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).



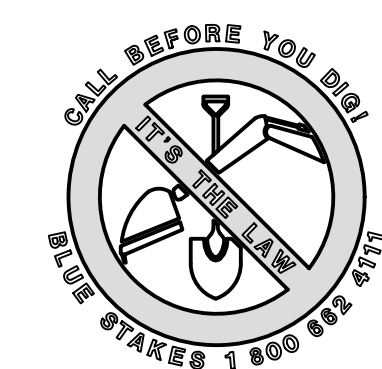
Plan 381  
**Trench backfill**  
 203

**HORIZON NEIGHBORHOOD PRUD**  
**DETAILS**

**TALISMAN**  
 CIVIL CONSULTANTS  
 MURRAY, UT 84407  
 5217 SOUTH STATE STREET, SUITE 200  
 801743.8800 TEL. 801743.0800 FAX

REGISTERED PROFESSIONAL ENGINEER  
 No. 7899506  
 YANAN CATHEY  
 STATE OF UTAH

SHEET NUMBER  
**6.05**  
 SCALE  
 VERTICAL: 1" = N/A  
 HORIZONTAL: 1" = N/A  
 JOB NUMBER  
**SLB0793**



DATE SUBMITTED: 08.01.2017

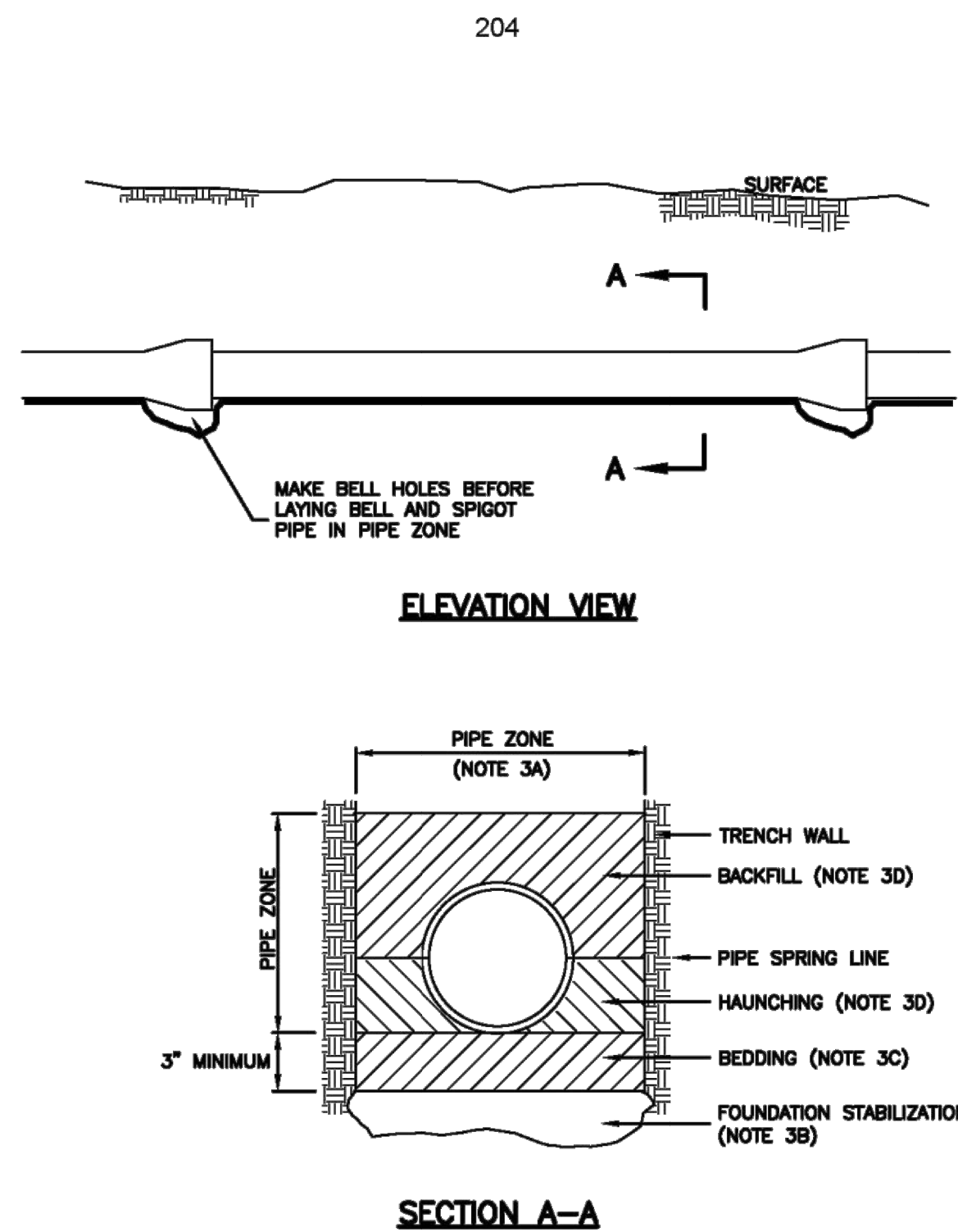
PREPARED FOR: SUMMIT POWDER MOUNTAIN

NO. BY DATE REVISIONS

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.

Pipe zone backfill

- GENERAL**
  - 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.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - Concrete: APWA Section 03 30 04.
  - 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.
  - Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.
- EXECUTION**
  - 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.
  - 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.
  - Base Course:
    - Furnish untreated base course material unless specified otherwise by pipe manufacturer.
    - 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.
    - When using concrete, provide at least Class 2,000 per APWA Section 03 30 04.
  - Pipe Zone: DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate in the pipe zone. Water jetting is NOT allowed.
    - 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.
    - 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.
  - Flowable Fill (when required and if allowed by pipe manufacturer):
    - Place the controlled low strength material, APWA Section 31 05 15.
    - Prevent pipe flotation by installing in lifts and providing pipe restraints as required by pipe manufacturer.
    - Reset pipe to line and grade if pipe "floats" out of position.



**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-MADE CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATIONS.  
 VITRIFIED CLAY PIPE: FOLLOW ASTM C 12.  
 STANDARD RECOMMENDED PRACTICE FOR INSTALLING VITRIFIED CLAY PIPE LINES.

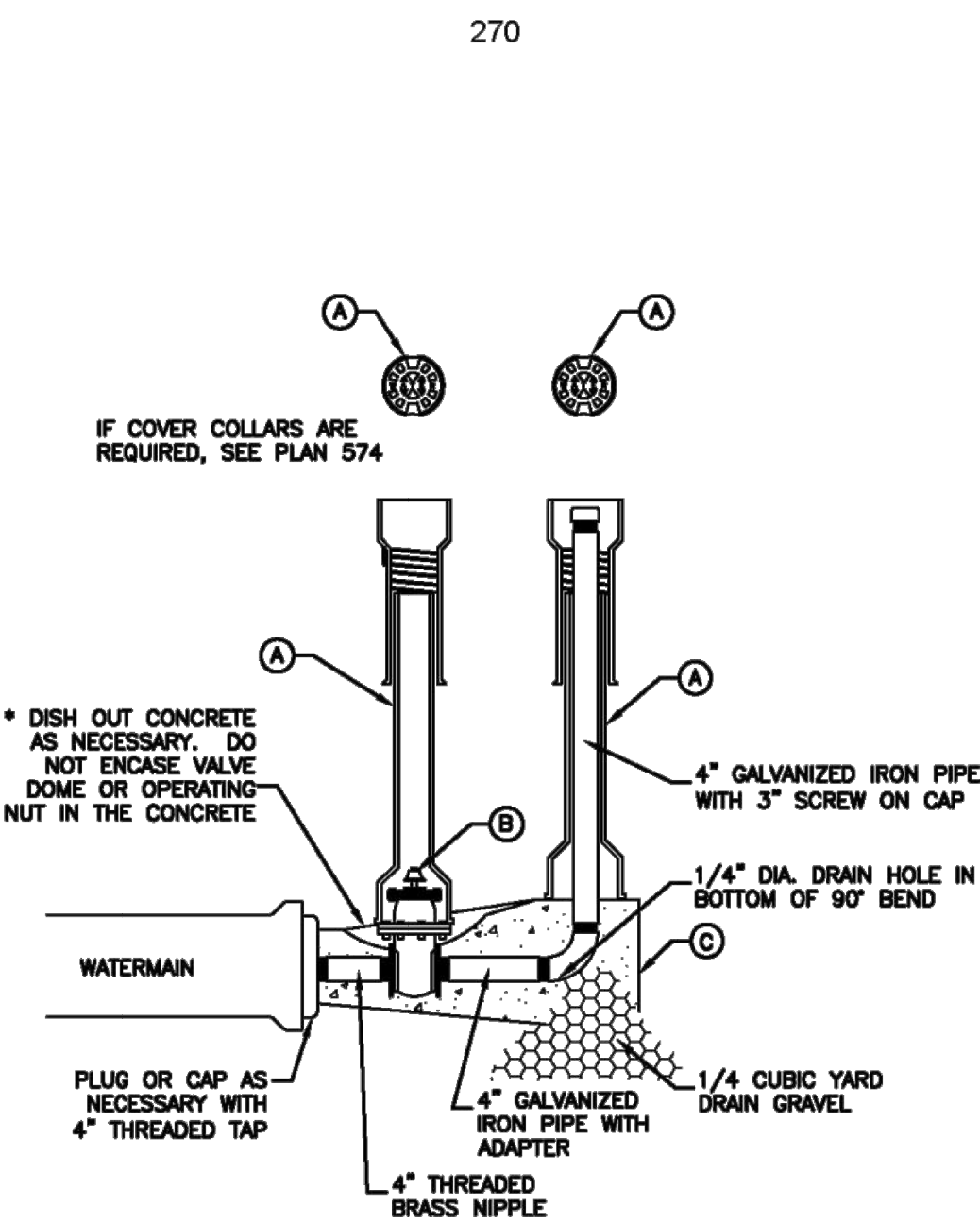
Pipe zone backfill

January 2011

205

4" washout valve

- GENERAL**
  - Before backfilling, secure inspection of installation by ENGINEER.
  - Water mains 12-inches and larger will require a special washout assembly design.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - Concrete: Class 4000, APWA Section 03 30 04.
- EXECUTION**
  - Pour concrete against undisturbed soil.
  - Apply tape wrap to the exterior of all galvanized pipe per AWWA C209.
  - Place plastic sheet at least 6 mils thick over drain gravel to prevent silting.
  - After installation of washout valve assembly, verify the washout valve riser drains to gravel.
  - Backfill and Base Course Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater of a modified proctor density, APWA Section 31 23 26.



LEGEND		
No.	ITEM	DESCRIPTION
(A)	VALVE BOX WITH LID	2 PIECE CAST IRON
(B)	4" GATE VALVE WITH SCREW ENDS	2" x 2" OPERATING NUT
(C)	CONCRETE THRUST BLOCK	PLAN 561

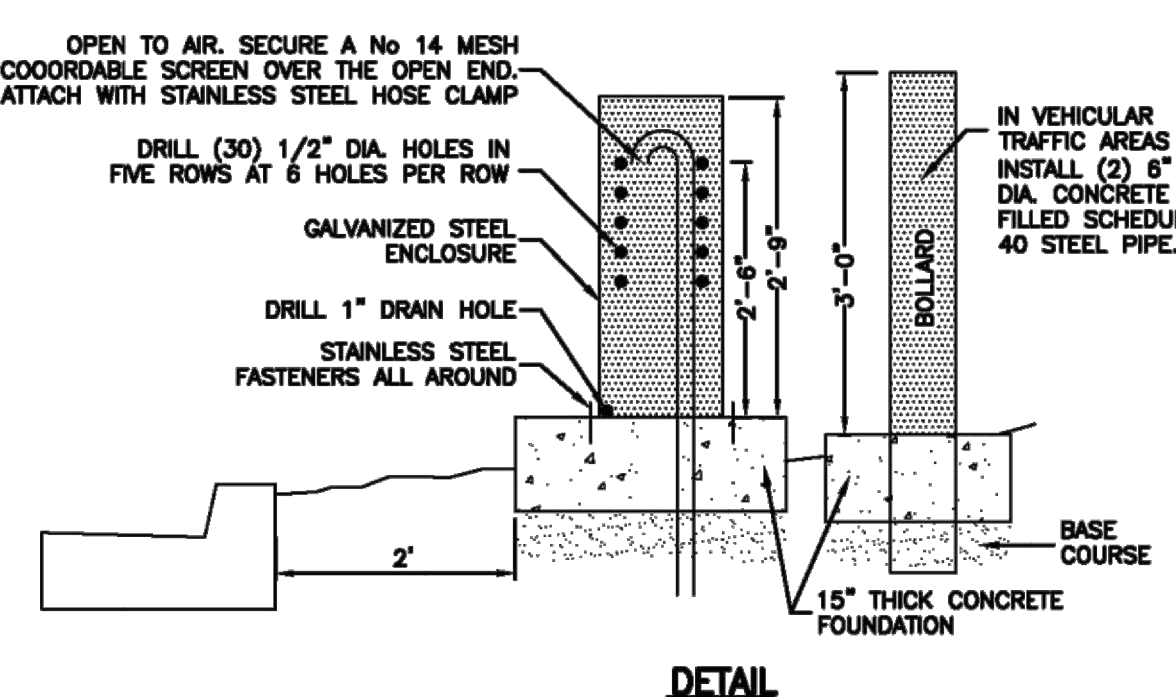
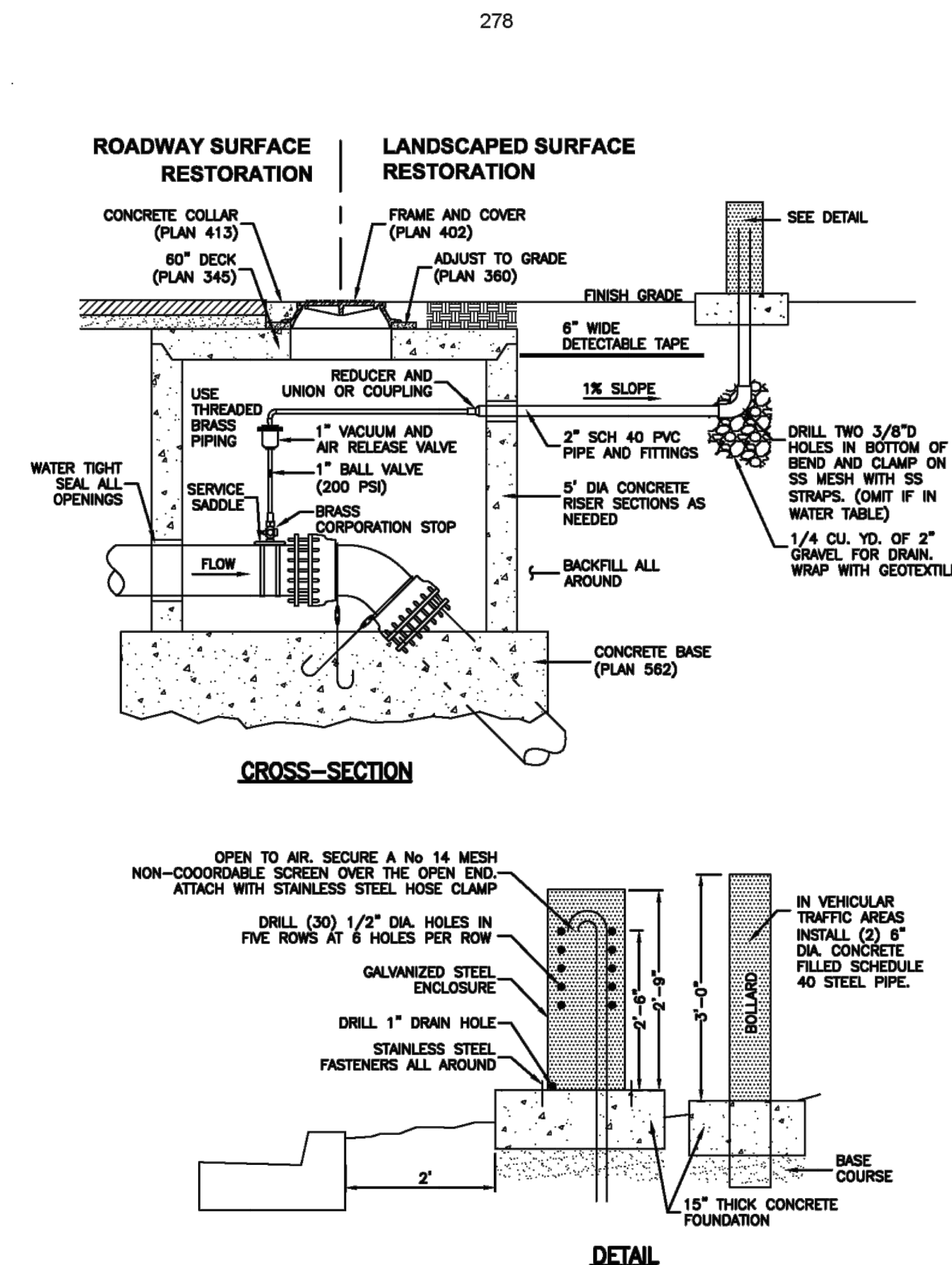
4" Washout valve

February 2011

271

Air release assembly

- GENERAL**
  - This drawing detail is applicable to water main piping less than 16-inches diameter.
  - PCCP, steel, MLCAC and other water main pipe materials will require special detail or design drawings. Submit the design and detail drawings and materials to the ENGINEER for review before installation.
  - Installation in areas of high ground water or potential for water entering the vent pipe will require a special design to be provided by the ENGINEER.
  - Before backfilling around the assembly, secure inspection of installation by ENGINEER.
- PRODUCTS**
  - Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
  - Drain Gravel: Sewer rock, ASTM size no. 3 (2" to 1") or equal, APWA Section 31 05 13.
  - Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
  - Concrete: Class 4000, APWA Section 03 30 04.
  - Manhole: Riser, ASTM C 478.
  - Reinforcement: Deformed, steel, ASTM A 615. Give bars an epoxy coating at least 15 mils thick. Minimum stress yield strength of steel tie-down bars is 70,000 ksi.
  - Small Fittings: Brass. Do not use galvanized materials.
  - PVC Pipe and Fittings: Schedule 40, APWA Section 33 05 07.
  - Water Tight Wall Seal: Waterproof, compressible.
- EXECUTION**
  - Base Course and Backfill Placement: 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.
  - Apply tape wrap to the exterior of all buried steel pipe per AWWA C209.
  - Concrete Placement: APWA Section 03 30 10. Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
  - Service saddle is required on all PVC and AC pipe taps unless specified otherwise. Ductile iron and cast iron pipe may be direct tapped.
  - Seal manhole joints water-tight and ground flush with interior wall.
  - Follow applicable AWWA and NSF standards when connecting piping.
  - If diameter of air relief valve is greater than 2-inches, provide piping to match its diameter from water main connection to open to air.



Air release assembly

February 2011

279

HORIZON NEIGHBORHOOD PRUD  
 DETAILS

TALISMAN  
 CIVIL CONSULTANTS

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

SHEET NUMBER  
 6.06

SCALE  
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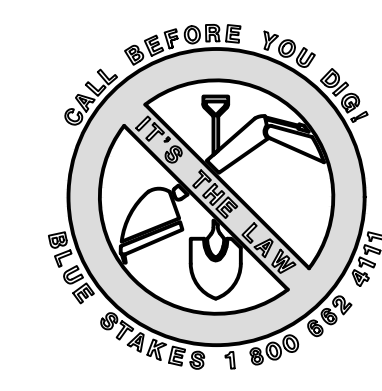
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DATE SUBMITTED: 08.01.2017

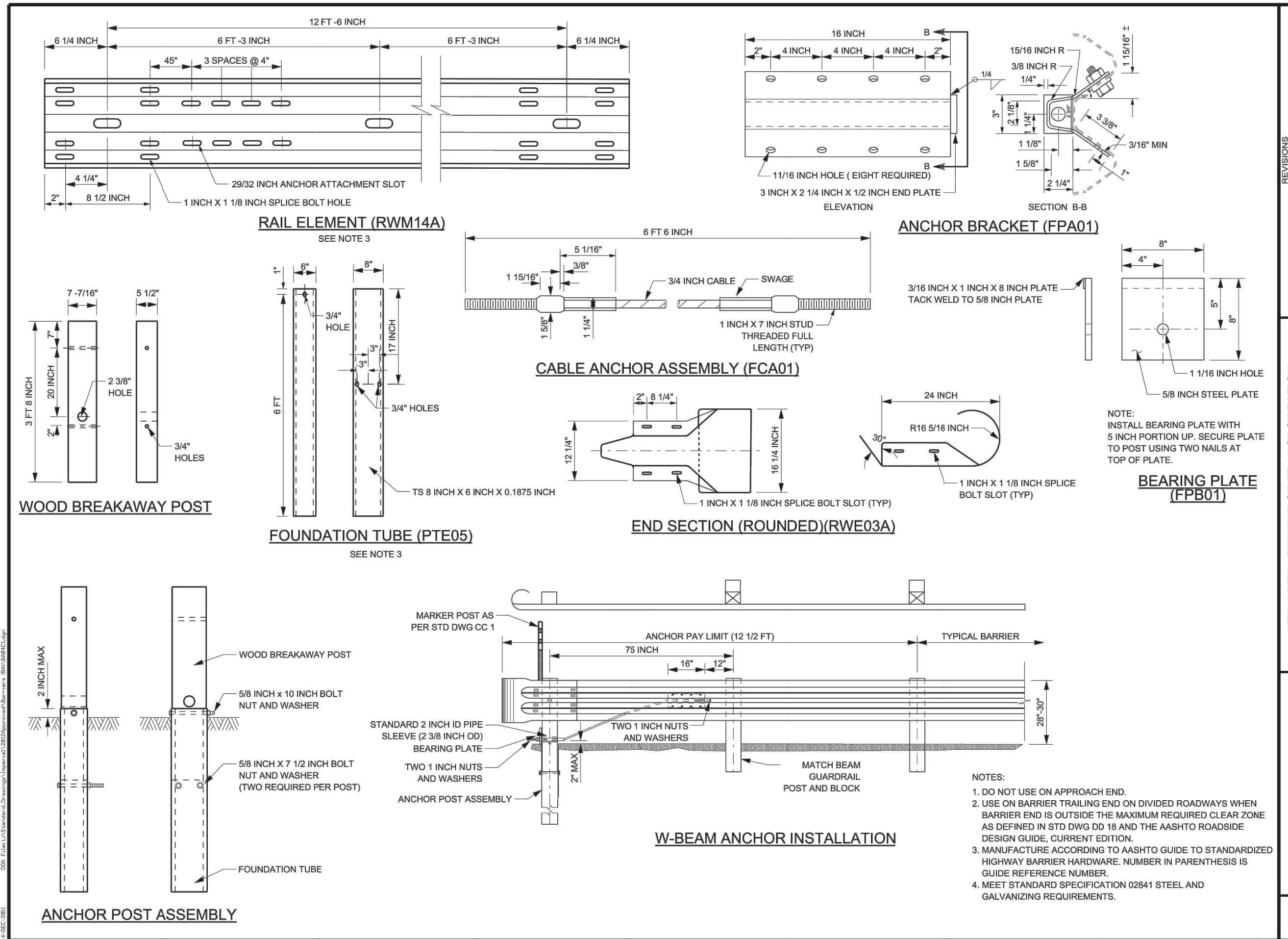
PREPARED FOR: SUMMIT POWDER MOUNTAIN

MURRAY, UT 84407

5217 SOUTH STATE STREET, SUITE 200  
 801743.8800 TEL. 801743.0800 FAX





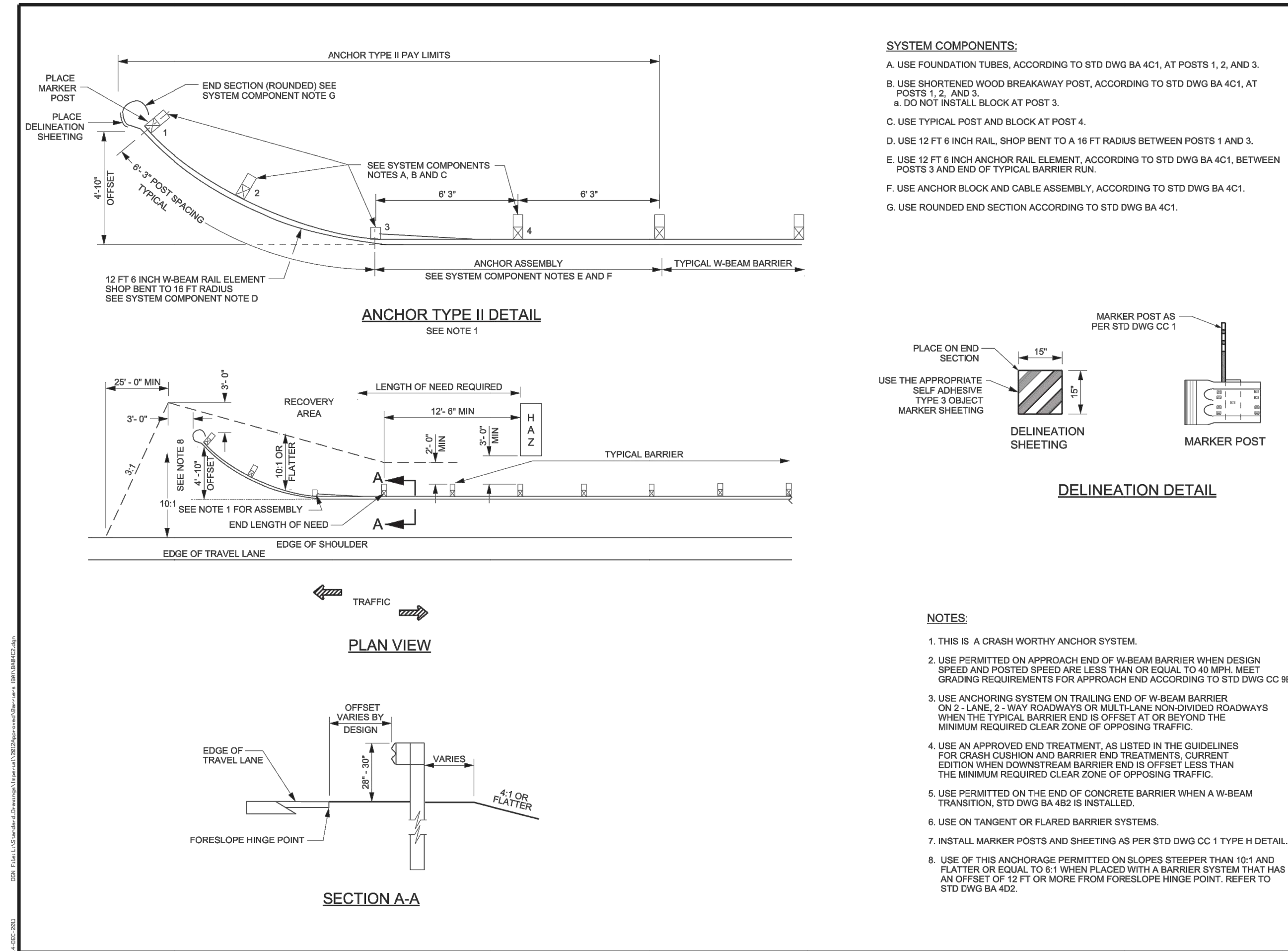


REVISIONS

NO.	DATE	DESCRIPTION
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UTAH DEPARTMENT OF TRANSPORTATION  
 STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION  
 SALT LAKE CITY, UTAH  
 RECOMMENDED FOR USE BY: [Signature]  
 APPROVED: [Signature]  
 CHAIRMAN: [Signature]  
 UTILITY DIRECTOR: [Signature]

W-BEAM GUARDRAIL ANCHOR TYPE I  
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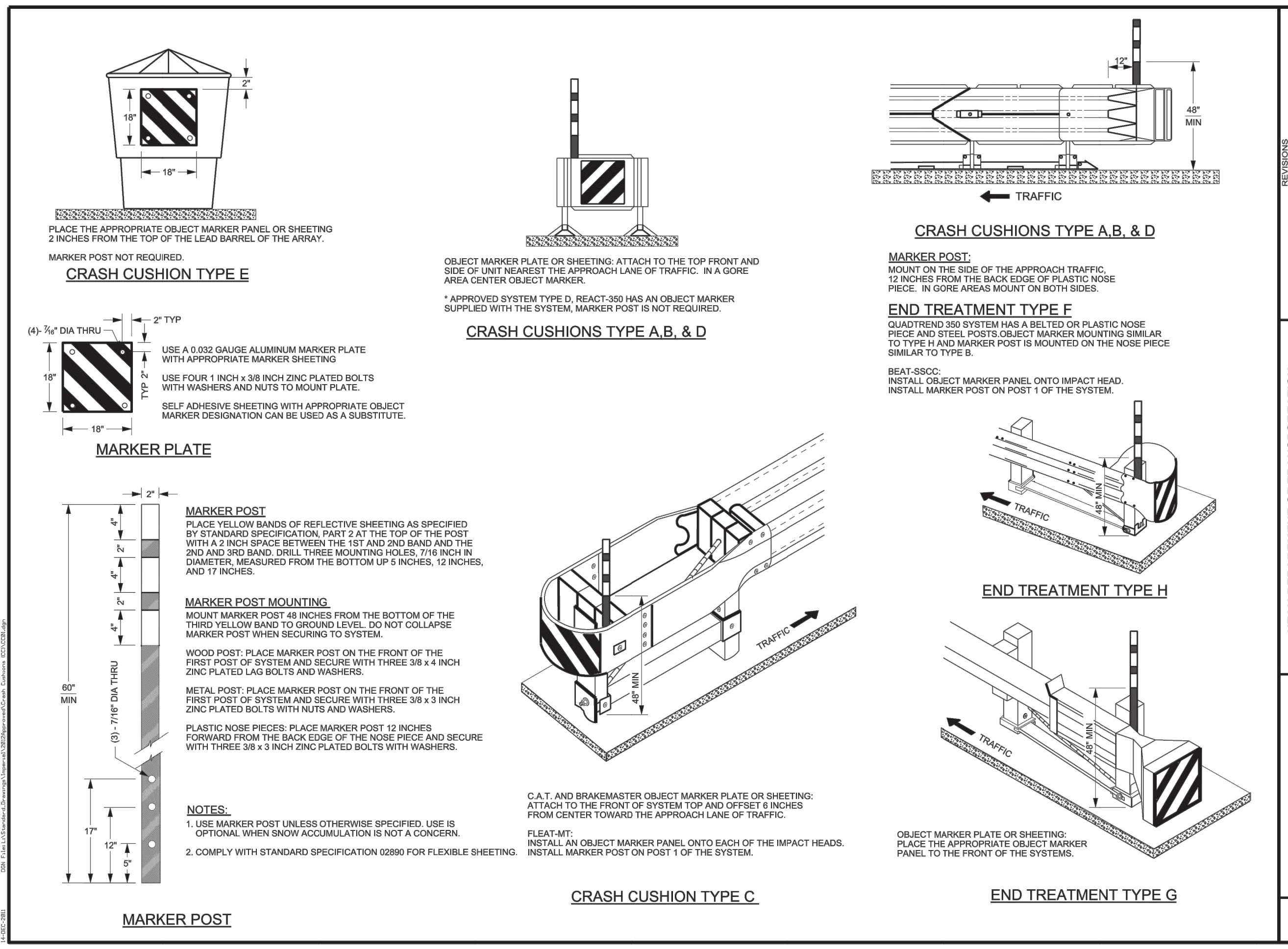


REVISIONS

NO.	DATE	DESCRIPTION
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 SALT LAKE CITY, UTAH  
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 APPROVED: [Signature]  
 CHAIRMAN: [Signature]  
 UTILITY DIRECTOR: [Signature]

W-BEAM GUARDRAIL ANCHOR TYPE II  
 STD. DWG. NO. BA 4C2

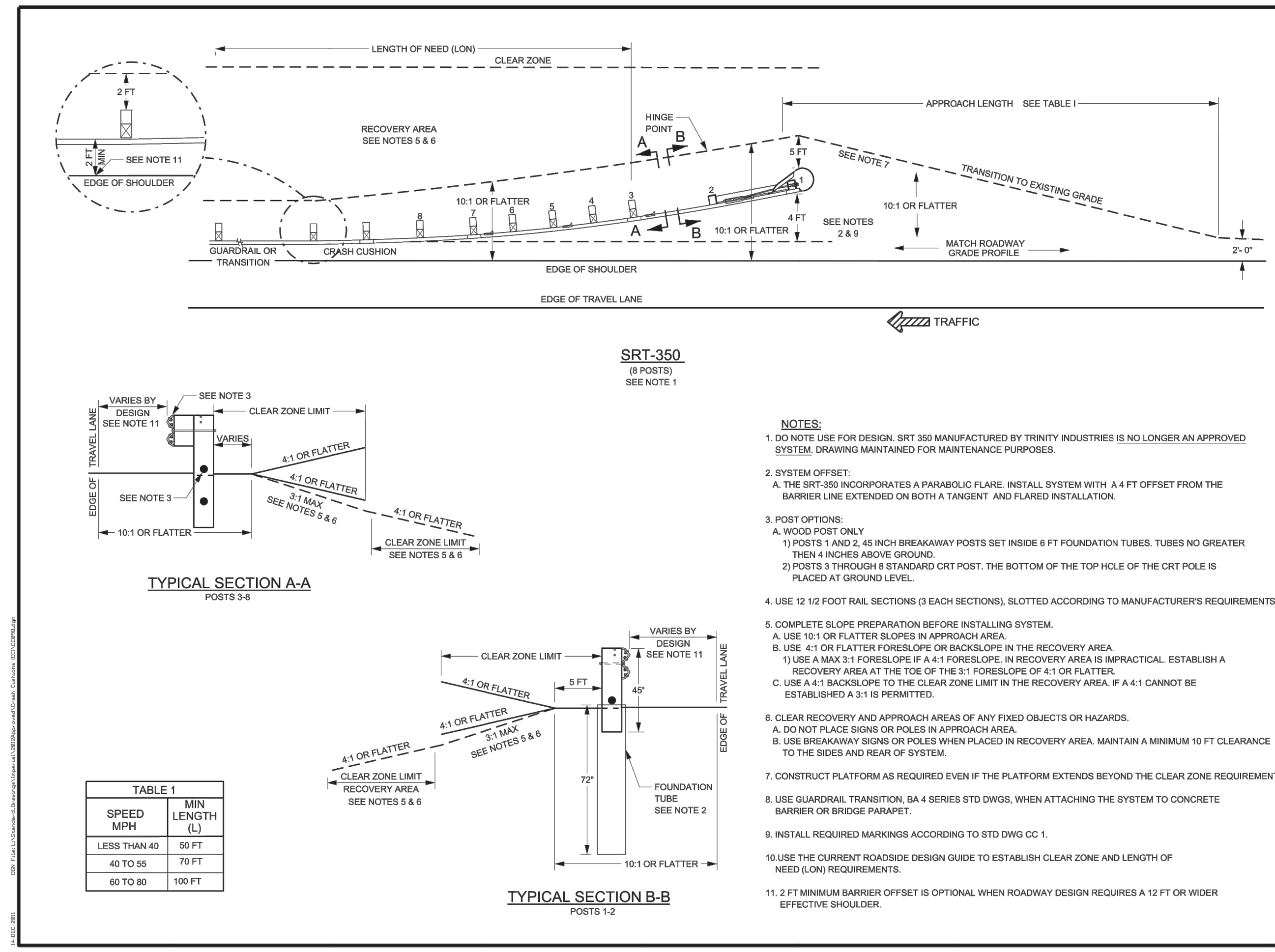


REVISIONS

NO.	DATE	DESCRIPTION
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UTAH DEPARTMENT OF TRANSPORTATION  
 STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION  
 SALT LAKE CITY, UTAH  
 RECOMMENDED FOR USE BY: [Signature]  
 APPROVED: [Signature]  
 CHAIRMAN: [Signature]  
 UTILITY DIRECTOR: [Signature]

CRASH CUSHION AND END TREATMENT MARKINGS  
 STD. DWG. NO. CC 1



REVISIONS

NO.	DATE	DESCRIPTION
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UTAH DEPARTMENT OF TRANSPORTATION  
 STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION  
 SALT LAKE CITY, UTAH  
 RECOMMENDED FOR USE BY: [Signature]  
 APPROVED: [Signature]  
 CHAIRMAN: [Signature]  
 UTILITY DIRECTOR: [Signature]

MAINTENANCE ONLY  
 INSTALLATION DETAILS  
 END TREATMENT TYPE H  
 STD. DWG. NO. CC 0B