

TRANSMITTAL



GREAT BASIN ENGINEERING
P.O. Box 9307 Ogden, Utah 84409
Phone (801) 394-4515
Fax (801) 392-7544

DATE: November 19, 2012

FROM: Ryan Bingham

TO: Weber County Engineering Division
2380 Washington Boulevard, Suite 240
Ogden, UT 84401

ATTN: Chad Meyerhoffer

RE: **The Chalets at Ski Lake Phase 6**

THE FOLLOWING ARE DELIVERED HEREWITH:

- 1 copy Q&A Responses to Weber County comments
- 1 copy Updated Plans
- 1 copy Project Notification Form (Division of Drinking Water)
- 1 copy Updated Engineer's Estimate

THESE ARE TRANSMITTED:

- | | | |
|---|--|-----------------------------------|
| <input checked="" type="checkbox"/> FOR YOUR REVIEW | <input checked="" type="checkbox"/> AS REQUESTED | <input type="checkbox"/> REJECTED |
| <input checked="" type="checkbox"/> FOR YOUR COMMENTS | <input type="checkbox"/> REVIEWED AS NOTED | <input type="checkbox"/> OTHER |
| <input checked="" type="checkbox"/> FOR YOUR USE & ACTION | <input type="checkbox"/> NO EXCEPTIONS TAKEN | |

SENT VIA:

- | | | |
|----------------------------------|--|--------------------------------|
| <input type="checkbox"/> US Mail | <input type="checkbox"/> Federal Express | <input type="checkbox"/> UPS |
| <input type="checkbox"/> Courier | <input checked="" type="checkbox"/> Hand | <input type="checkbox"/> OTHER |

COMMENTS/INSTRUCTIONS:

Please process for final approval.

Thank you,
Ryan Bingham
Great Basin Engineering

November 19, 2012

Mr. Chad Meyerhoffer
Weber County Engineering Division
cmeyerho@co.weber.ut.us

Dear Chad:

Thank you for your review of The Chalets @ Ski Lake No 6. We have reviewed and addressed the comments from <https://miradi.co.weber.ut.us/reviews/view/1068>. For the sake of clarity I have compiled a list of responses to the items commented on by your review team. They are as follows and correspond to the numbers of your comments:

- 1Q. See notes/redlines on plans for questions and concerns.
- 1A. See Updated Plans.
- 2Q. With the water line design do these plans need to be submitted to the Division of Drinking Water for review and approval? Do the plans on the sewer lines need to be submitted to the State as well?
- 2A. The plans have been submitted to the Division of Drinking Water. A copy of the application that was submitted is attached. They do not need to be submitted for sewer piping.
- 3Q. Can the AASHTO specifications be submitted that were used for the stopping area for the stop signs.
- 3A. Has Weber County adopted AASHTO Standards for Local Streets? We have made sure that from the 16' from centerline to the edge of asphalt there is an additional 40' area with less than 6% for cars for both the intersection of Knight Hawk Road with Quail Lane and the intersection of Hawks Lane with Quail Lane per discussion on 11-9-12.
- 4Q. Will need an update letter on the Geotechnical Report stating that conditions have not changed from when the report was done.
- 4A. Phase 6 will not require an update from Geotech per discussion on 11-9-12.
- 5Q. There will need to be an Engineer's Cost Estimate with an escrow with the County before final approval.
- 5A. We have added a storm drain box, some pipe, and a trail system to the previous estimate. See updated copy attached.

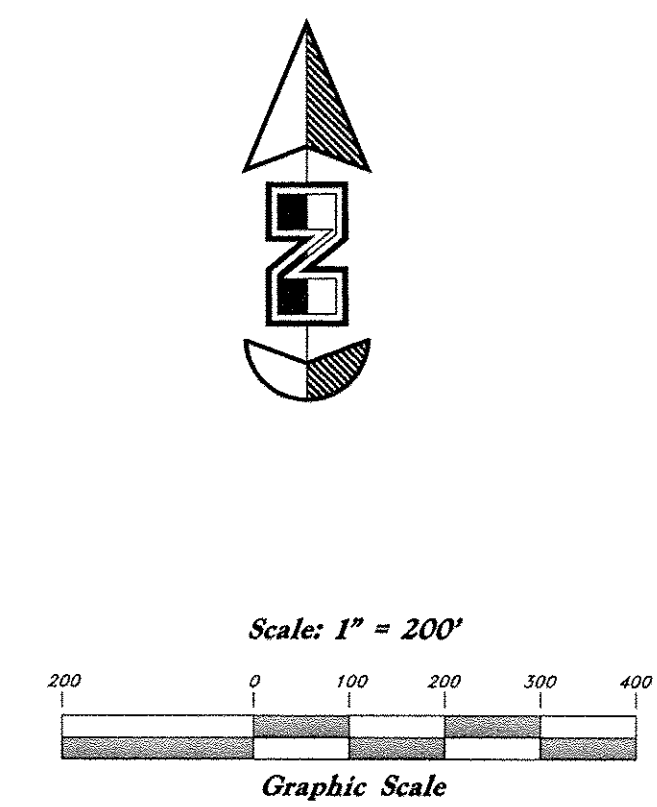
- 6Q. Is there to be a Trail System associated with this phase?
- 6A. **Yes. This is now shown on the revised exhibit, and is included with the cost estimate.**
- 7Q. The State now requires that a National Discharge Pollution Elimination Systems (NPDES) permit be acquired for all new development. A copy of the permit needs to be submitted to the county before final approval. Permits can now be obtained online thru the Utah State Dept. of Environmental Quality at the following web site: <https://secure.utah.gov/swp/client>.
- 7A. **This has been submitted. Weber County has a copy.**
- 8Q. A Storm Water Activity Permit will need to be obtained through our office before construction begins.
<http://www1.co.weber.ut.us/mediawiki/images/5/56/StormwaterConstructionActivityPermit.pdf>
- 8A. **This has been submitted. Weber County has a copy.**

Chad, thank you for your time and consideration in these matters. Please feel free to contact me directly regarding these issues.

Best regards,

Ryan Bingham, P.E.,
Great Basin Engineering
801-394-4515

Sheet 3



Legend

- (Note: All items may not appear on drawing)
- San. Sewer Manhole
 - Water Manhole
 - Storm Drain Manhole
 - Electrical Manhole
 - Catch Basins
 - Exist. Fire Hydrant
 - Fire Hydrant
 - Exist. Water Valve
 - Water Valve
 - Sanitary Sewer
 - Sanitary Water
 - Gas Line
 - Irrigation Line
 - Storm Drain
 - Telephone Line
 - Secondary Waterline
 - Power Line
 - Fire Line
 - Land Drain
 - Power pole
 - Power pole w/guy
 - Light Pole
 - Fence
 - Flowline of ditch
 - Overhead Power line
 - Corrugated Metal Pipe
 - Concrete Pipe
 - Reinforced Concrete Pipe
 - Ductile Iron
 - Polyvinyl Chloride
 - Top of Asphalt
 - Edge of Asphalt
 - Centerline
 - Flowline
 - Finish Floor
 - Top of Curb
 - Top of Wall
 - Top of Walk
 - Top of Concrete
 - Natural Ground
 - Finish Contour
 - Exist. Contour
 - Finish Grade
 - Exist. Grade
 - Ridge Line
 - Direction of Flow
 - Existing Asphalt
 - New Asphalt
 - Heavy Duty Asphalt
 - Concrete
 - Open Face
 - Curb & Gutter

REV	DATE	DESCRIPTION

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Key Map

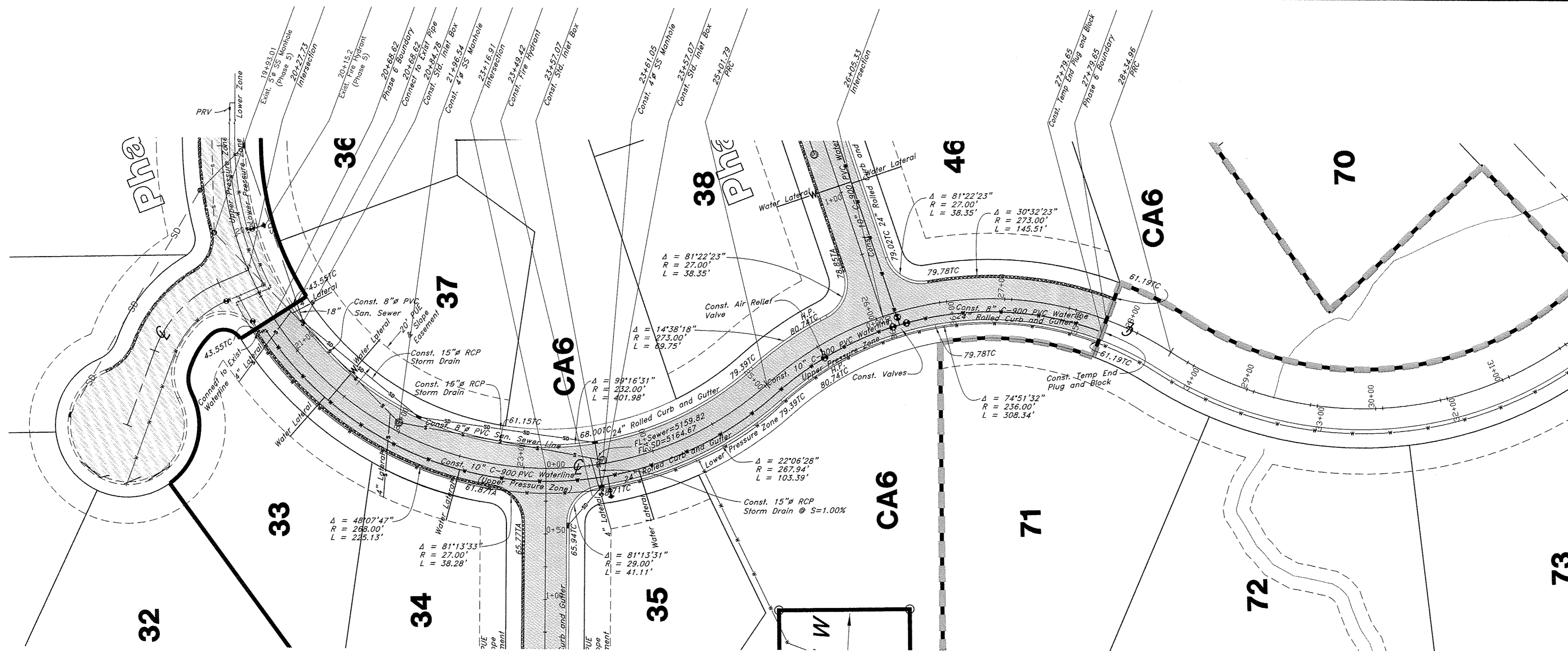
The Chalets at Ski Lake No. 6
 A part of the Southwest 1/4 of Section 13, a part of the Northeast 1/4 of Section 23, and a part of the Northwest 1/4 of Section 24, T6N, R1E, SLB&W, U.S. Survey



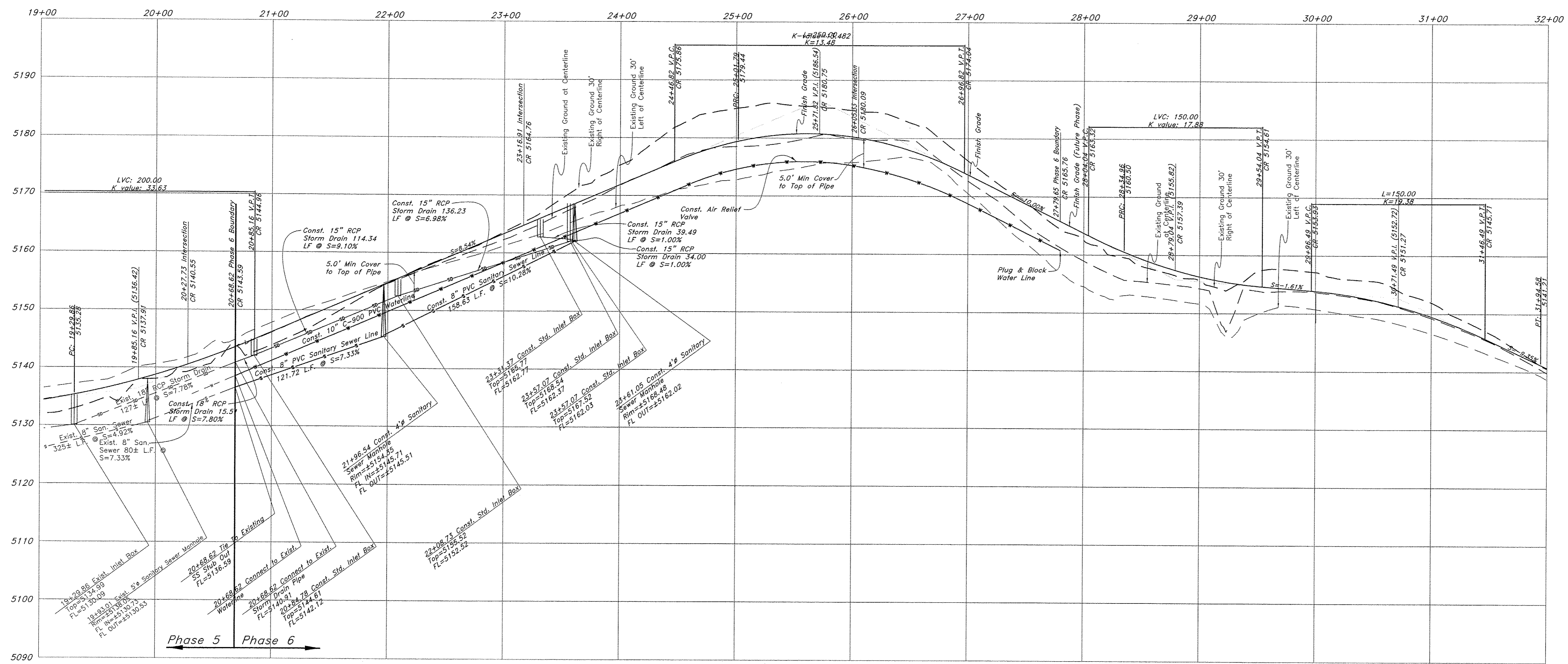
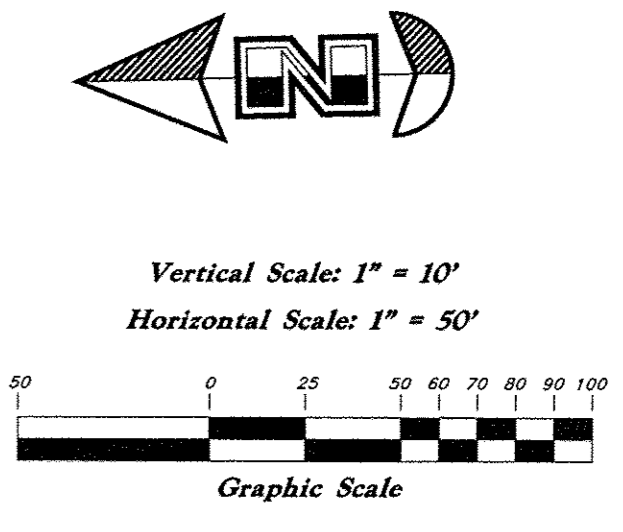
Jan, 2012

SHEET NO. **KM**

96N120 Waterline



Quail Lane



Legend

(Note: All Items may not appear on drawing)

- San. Sewer Manhole
- Water Manhole
- Storm Drain Manhole
- Electrical Manhole
- Catch Basins
- Exist. Fire Hydrant
- Exist. Water Valve
- Water Valve
- Sanitary Sewer
- Sanitary Water
- Gas Line
- Irrigation Line
- Storm Drain
- Telephone Line
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- Power Line
- Fire Line
- Land Drain
- Power pole w/guy
- Light Pole
- Fence
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- Overhead Power line
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- Concrete Pipe
- Reinforced Concrete Pipe
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- Polyvinyl Chloride
- Top of Asphalt
- Edge of Asphalt
- Centerline
- Flowline
- Finish Floor
- Top of Curb
- Top of Wall
- Top of Walk
- Top of Concrete
- Natural Ground
- Finish Contour
- Exist. Contour
- Finish Grade
- Exist. Grade
- Ridge Line
- Direction of Flow
- Existing Asphalt
- New Asphalt
- Heavy Duty Asphalt
- Concrete
- Open Face
- Curb & Gutter

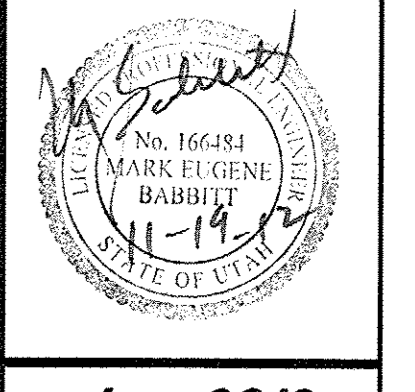
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Plan / Profile (Utility)

The Chalets at Ski Lake No. 6

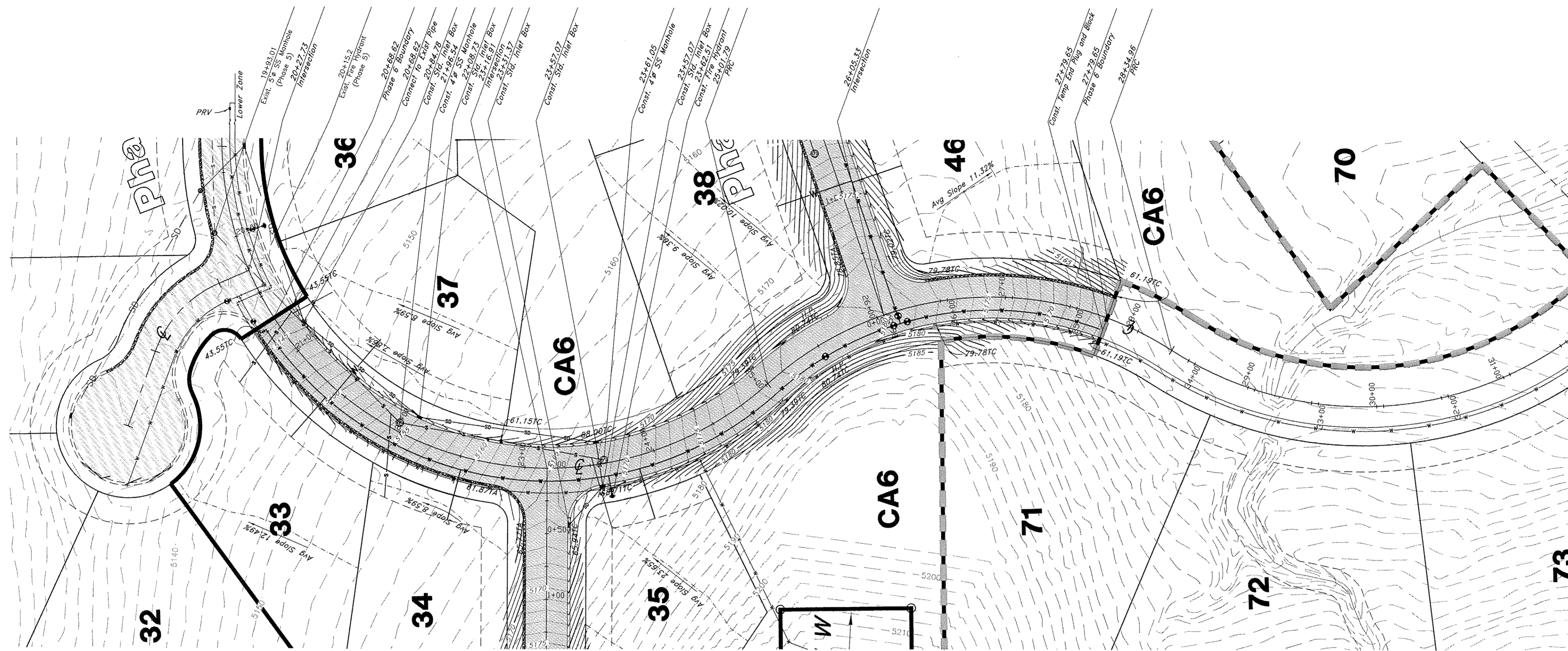
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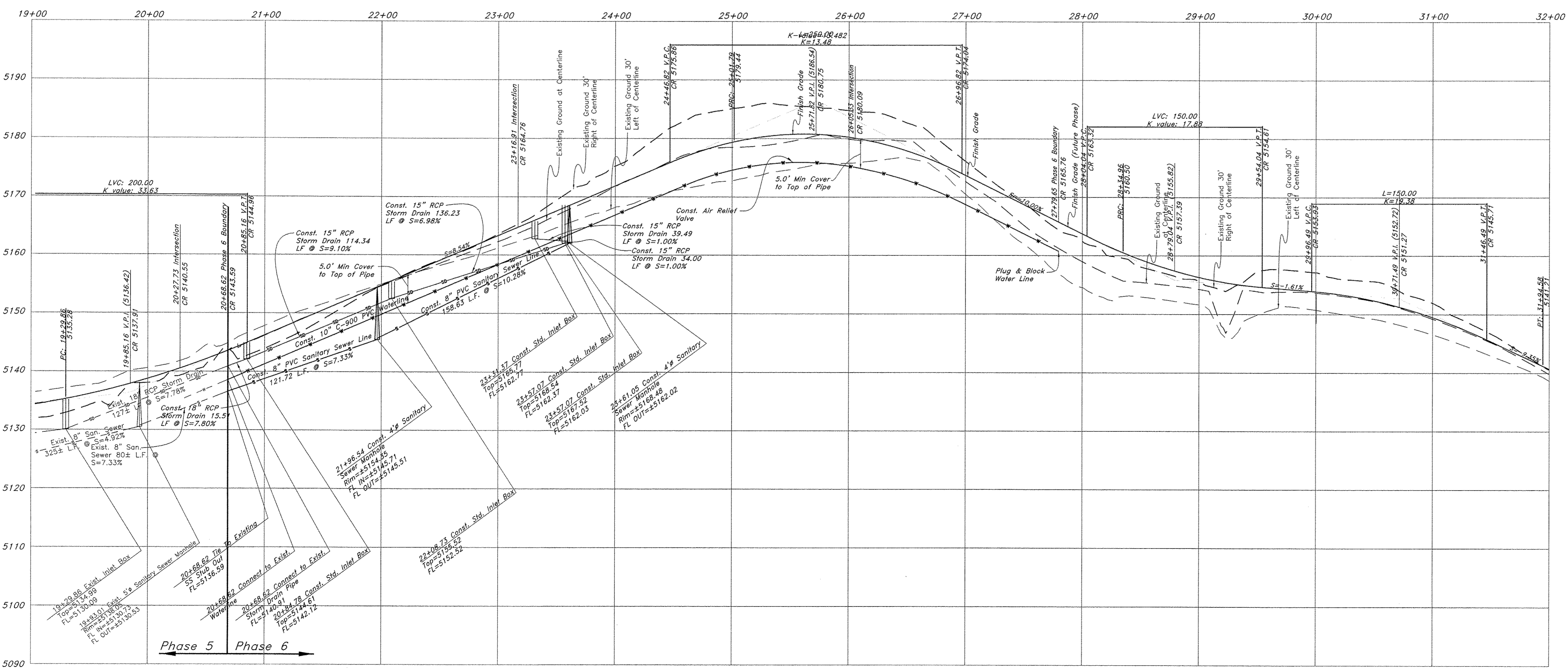
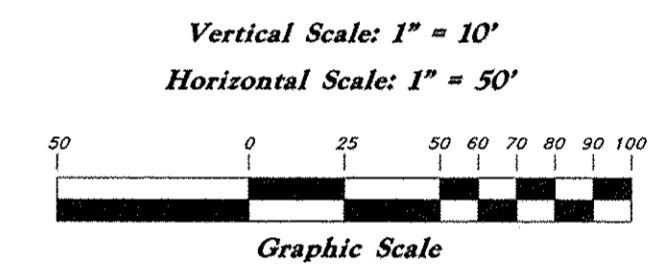
Jan, 2012

SHEET NO. **1**

96N120 Waterline



Benchmark: Monument at
Intersection of Quail Lane and
Meadow Lark Lane
Elevation: 5022.34

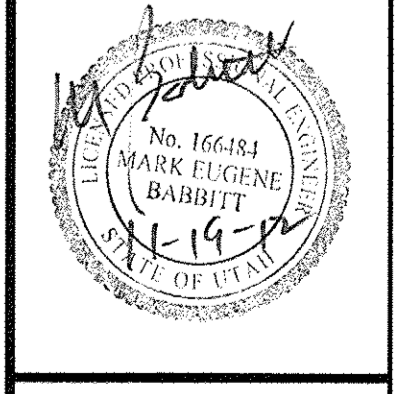


Legend

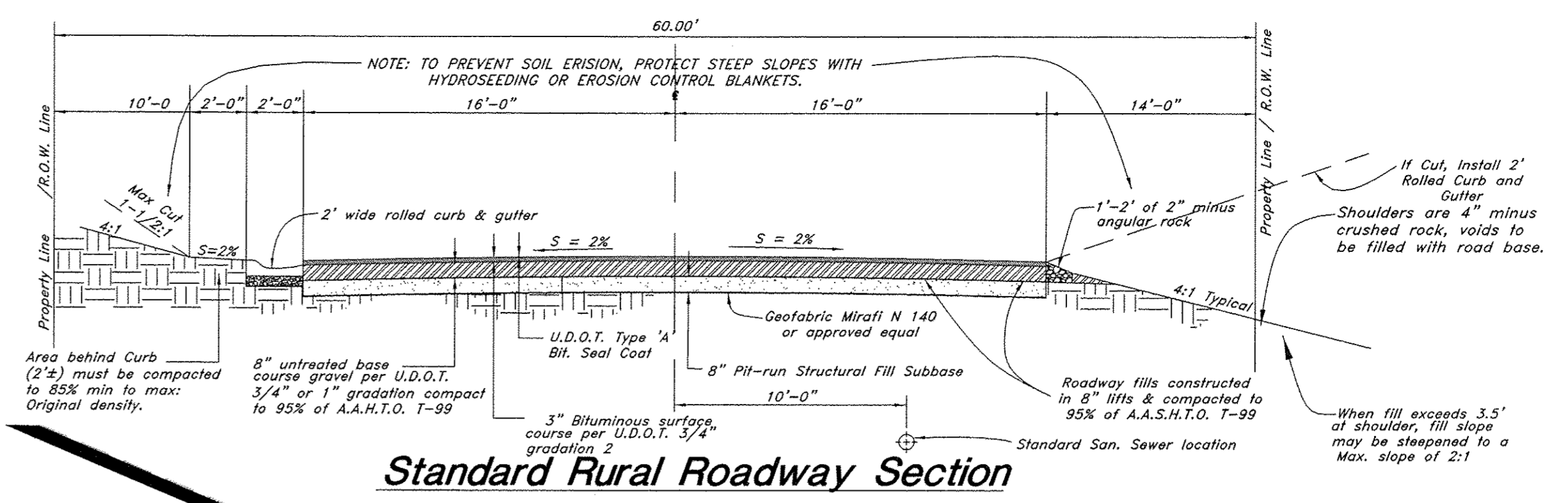
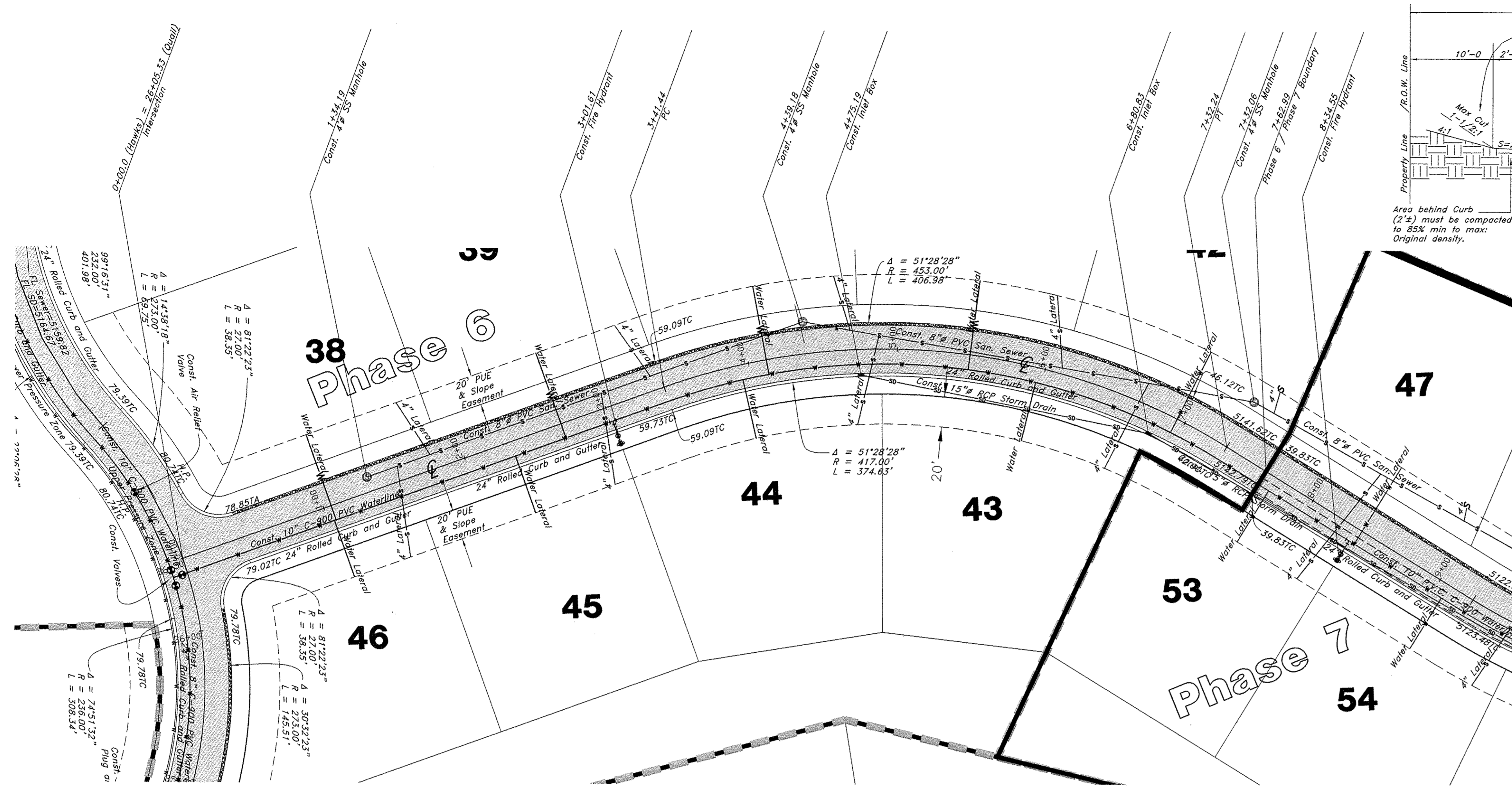
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 - Water Manhole
 - Storm Drain Manhole
 - Electrical Manhole
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 - Exist. Water Valve
 - Water Valve
 - Sanitary Sewer
 - Culinary Water
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 - Irrigation Line
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 - Land Drain
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 - Light Pole
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 - Concrete Pipe
 - Reinforced Concrete Pipe
 - Ductile Iron
 - Polyvinyl Chloride
 - Top of Asphalt
 - Edge of Asphalt
 - Centerline
 - Flowline
 - Finish Floor
 - Top of Curb
 - Top of Wall
 - Top of Walk
 - Top of Concrete
 - Natural Ground
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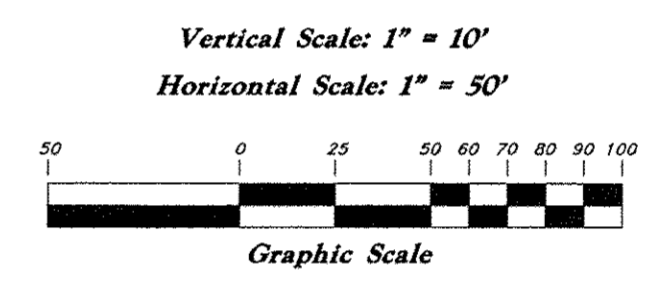
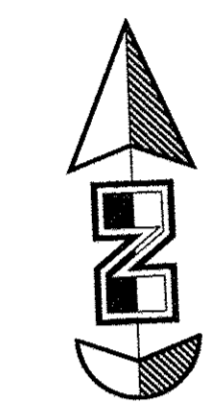
Plan / Profile (Grading)
The Chalets at Ski Lake No. 6
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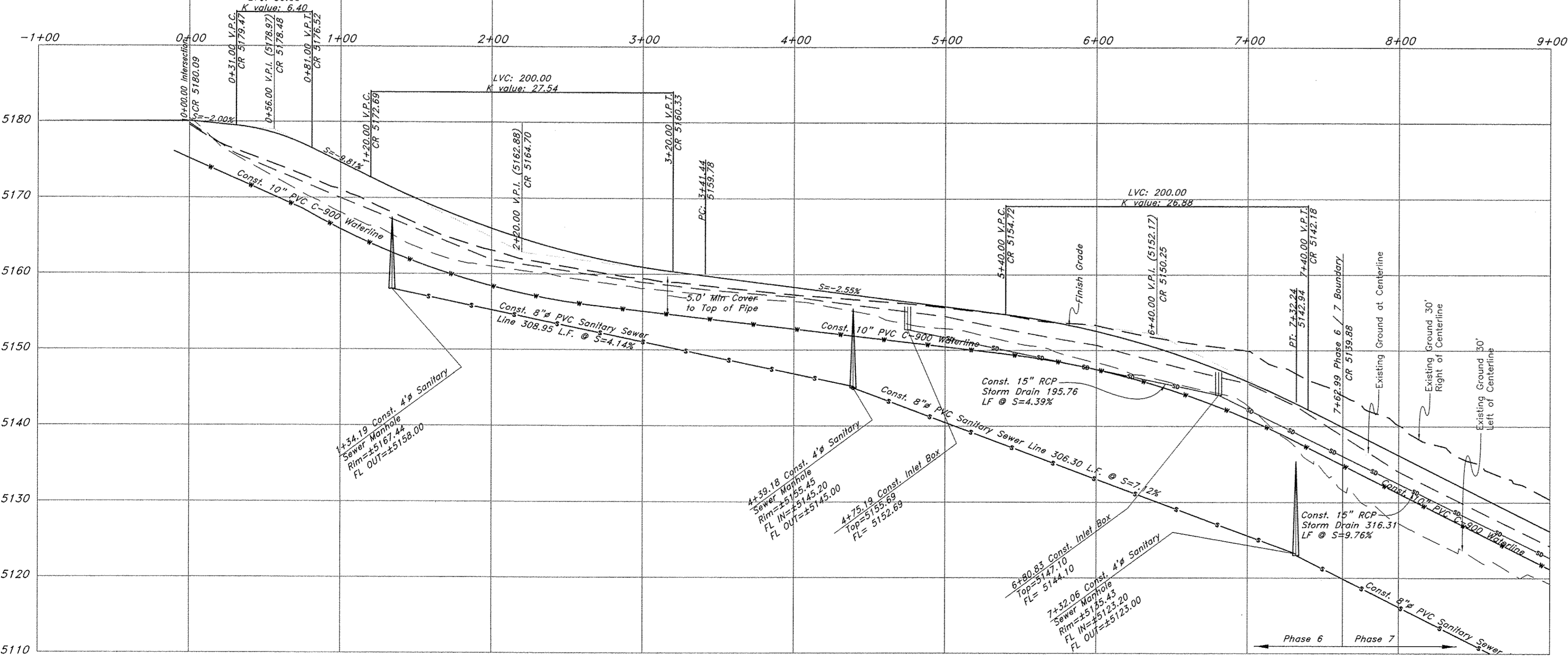
Jan, 2012
SHEET NO. **1a**
96N120 Waterline



NOTE: TO PREVENT SOIL EROSION, PROTECT STEEP SLOPES WITH HYDROSEEDING OR EROSION CONTROL BLANKETS.



Hawks Lane

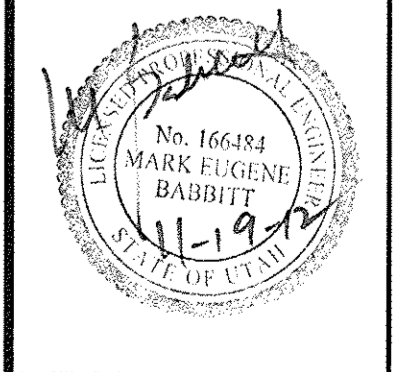


Legend

- (Note: All items may not appear on drawing)
- San. Sewer Manhole
 - Water Manhole
 - Storm Drain Manhole
 - Electrical Manhole
 - Catch Basins
 - Exist. Fire Hydrant
 - Exist. Water Valve
 - Sanitary Sewer Water Valve
 - Culinary Water
 - Gas Line
 - Irrigation Line
 - Storm Drain
 - Telephone Line
 - Secondary Waterline
 - Fire Line
 - Land Drain
 - Power pole w/guy
 - Light Pole
 - Fence
 - Flowline of ditch
 - Overhead Power line
 - Corrugated Metal Pipe
 - Concrete Pipe
 - Reinforced Concrete Pipe
 - Oxide Iron
 - Polyvinyl Chloride
 - Top of Asphalt
 - Edge of Asphalt
 - Centerline
 - FF
 - Flowline
 - Finish Floor
 - Top of Curb
 - Top of Wall
 - Top of Walk
 - Top of Concrete
 - Natural Ground
 - Finish Contour
 - Exist. Contour
 - Finish Grade
 - Exist. Grade
 - Ridge Line
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 - New Asphalt
 - Heavy Duty Asphalt
 - Concrete
 - Open Face Curb & Gutter

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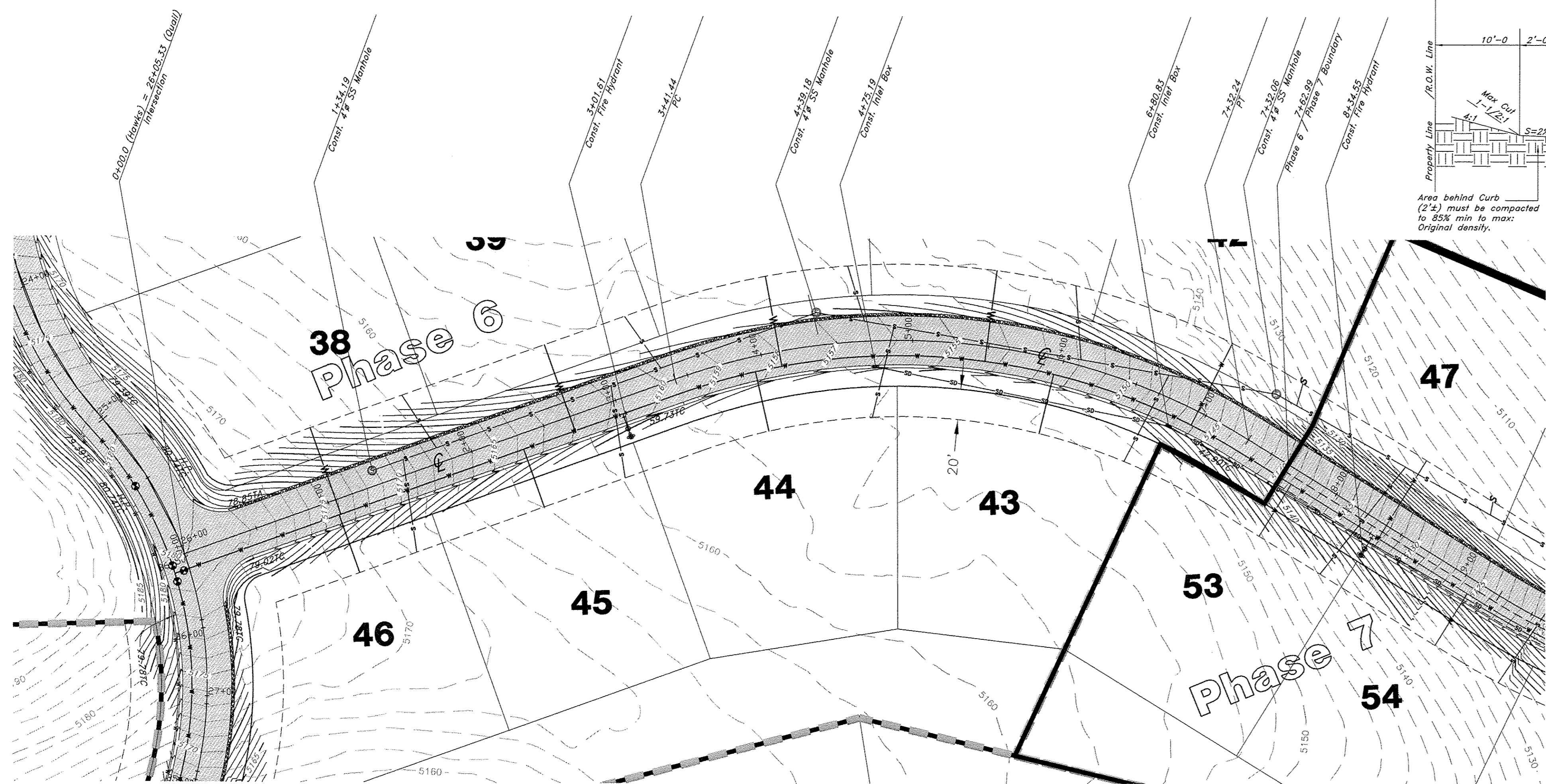


Jan, 2012

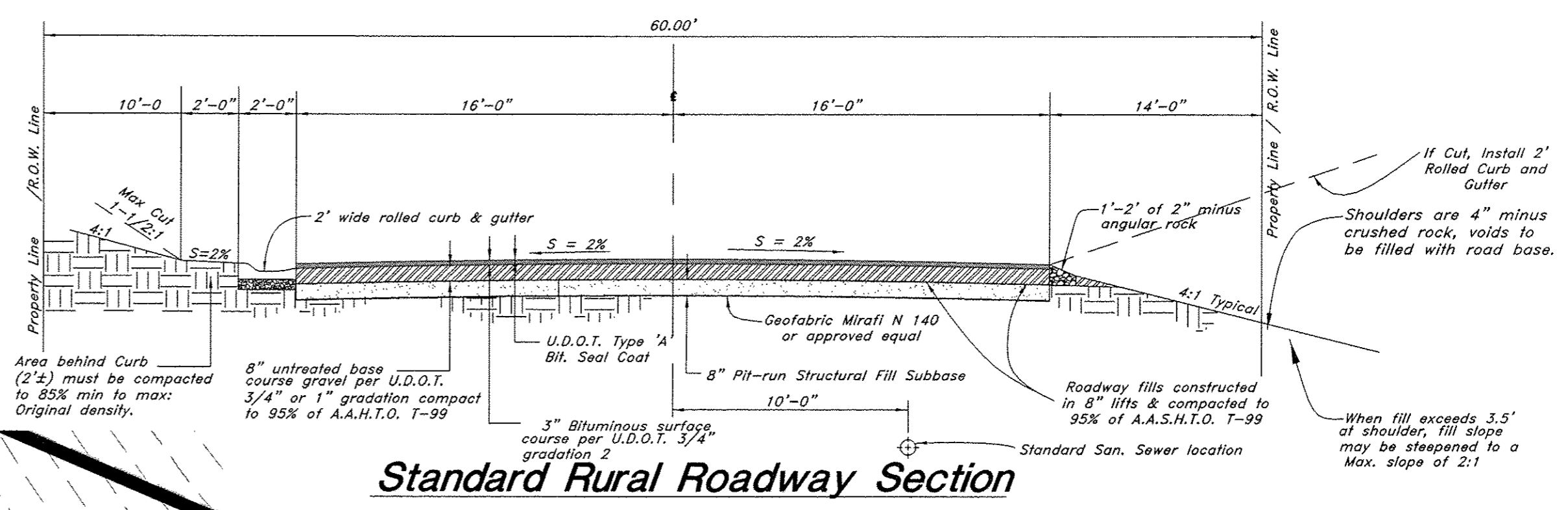
SHEET NO.

2

96N120 Waterline

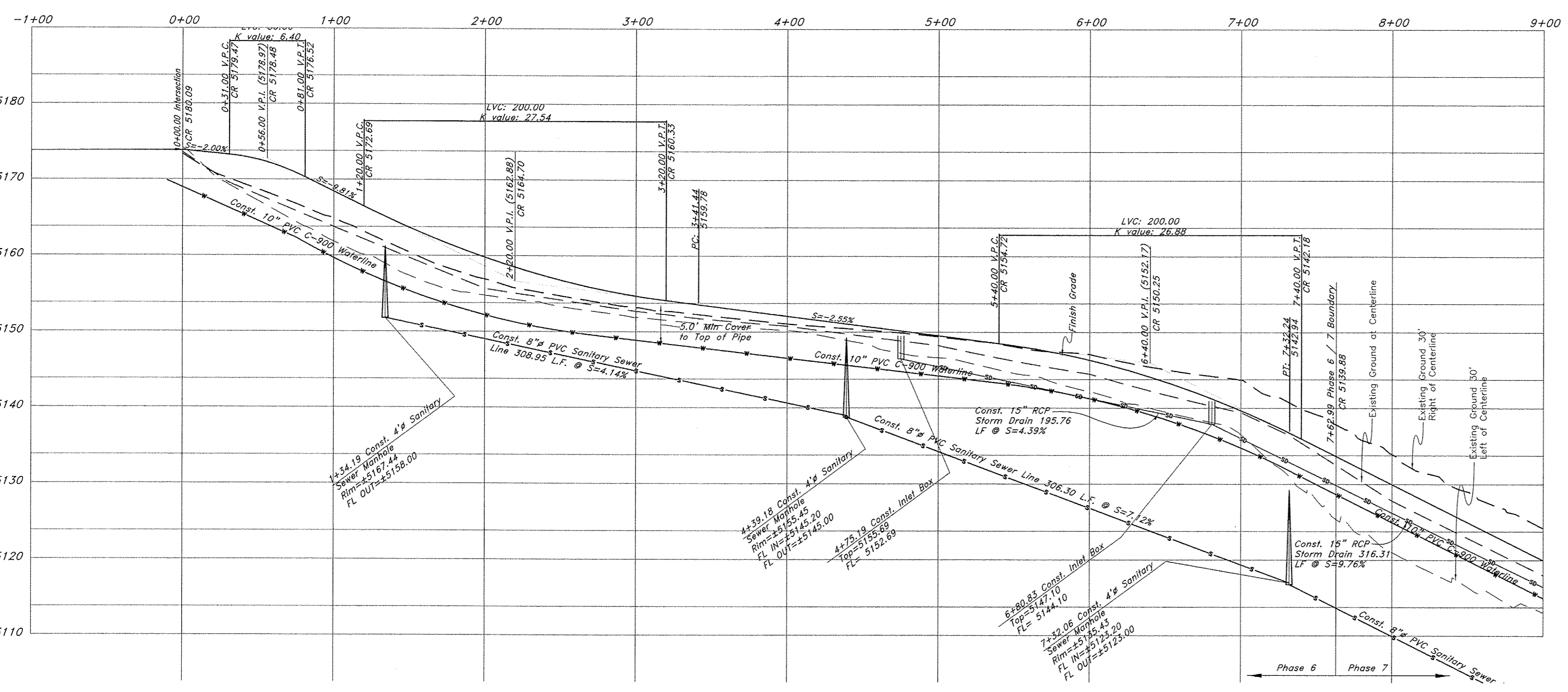
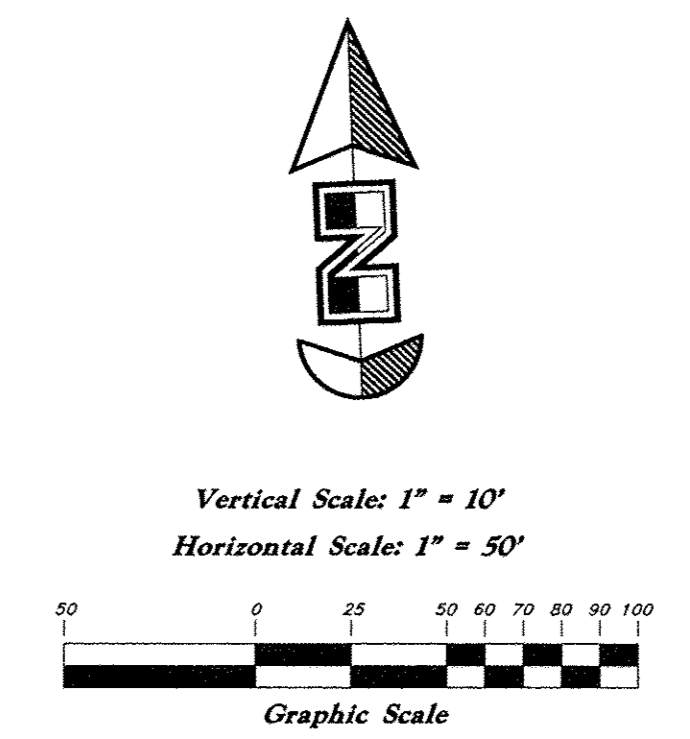


Hawks Lane



Standard Rural Roadway Section

NOTE: TO PREVENT SOIL EROSION, PROTECT STEEP SLOPES WITH HYDROSEEDING OR EROSION CONTROL BLANKETS.



Legend

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- San. Sewer Manhole
 - Water Manhole
 - Storm Drain Manhole
 - Electrical Manhole
 - Catch Basins
 - Exist. Fire Hydrant
 - Exist. Water Valve
 - Water Valve
 - Sanitary Sewer
 - Culinary Water
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 - Land Drain
 - Power Pole
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 - Fence
 - Flowline of ditch
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 - Corrugated Metal Pipe
 - Concrete Pipe
 - Reinforced Concrete Pipe
 - Ductile Iron
 - Polyvinyl Chloride
 - Top of Asphalt
 - Edge of Asphalt
 - Centerline
 - Flawline
 - Finish Floor
 - Top of Curb
 - Top of Wall
 - Top of Walk
 - Top of Concrete
 - Natural Ground
 - Finish Contour
 - Exist. Contour
 - Finish Grade
 - Exist. Grade
 - Ridge Line
 - Direction of Flow
 - Existing Asphalt
 - New Asphalt
 - Heavy Duty Asphalt
 - Concrete
 - Open Face Curb & Gutter

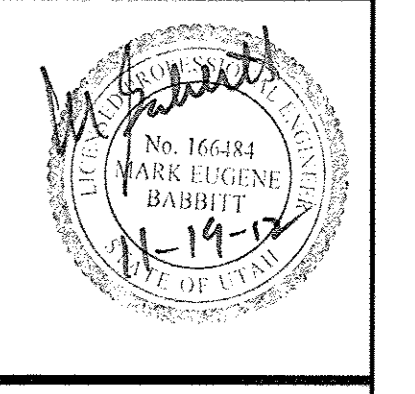
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Plan / Profile (Grading)

The Chalets at Ski Lake No. 6

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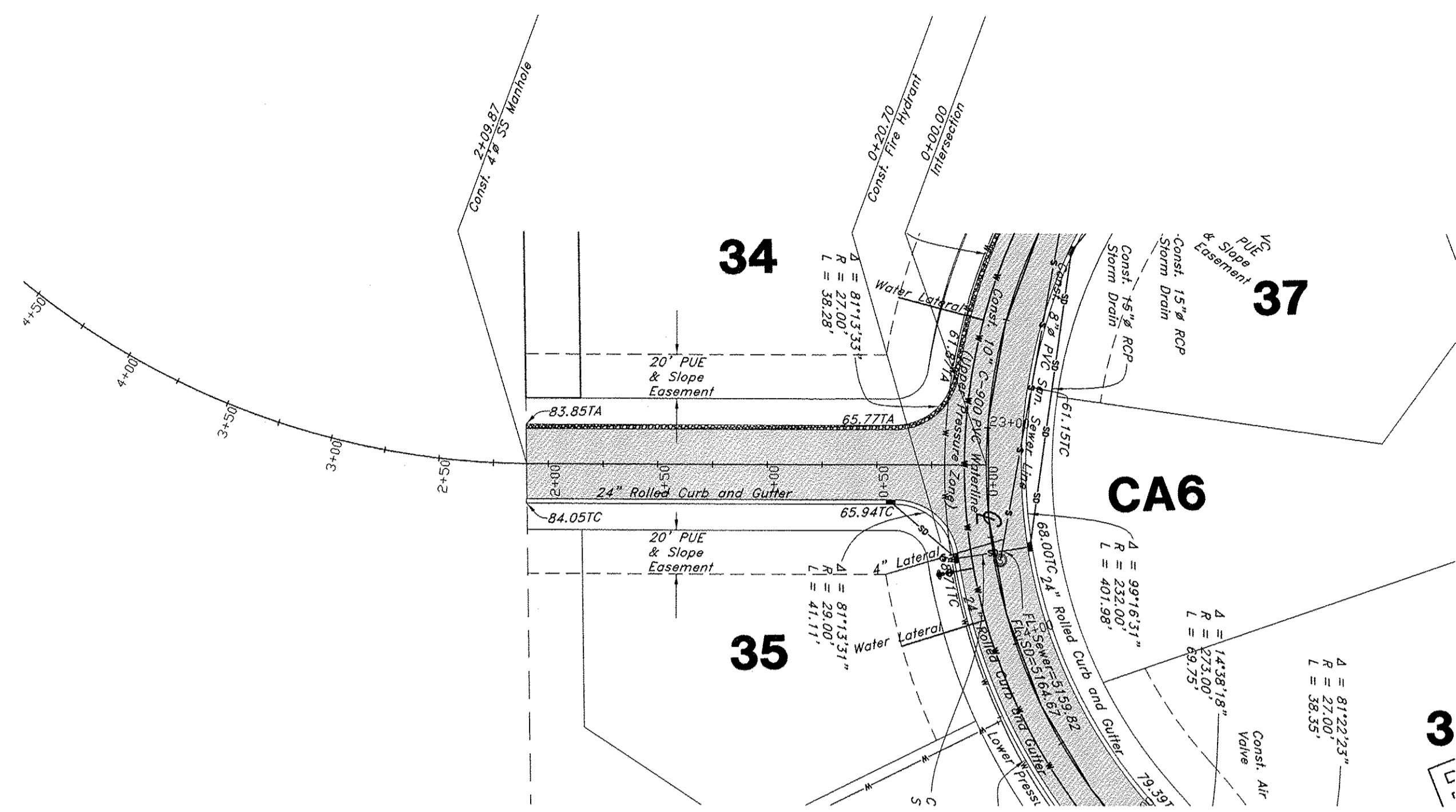


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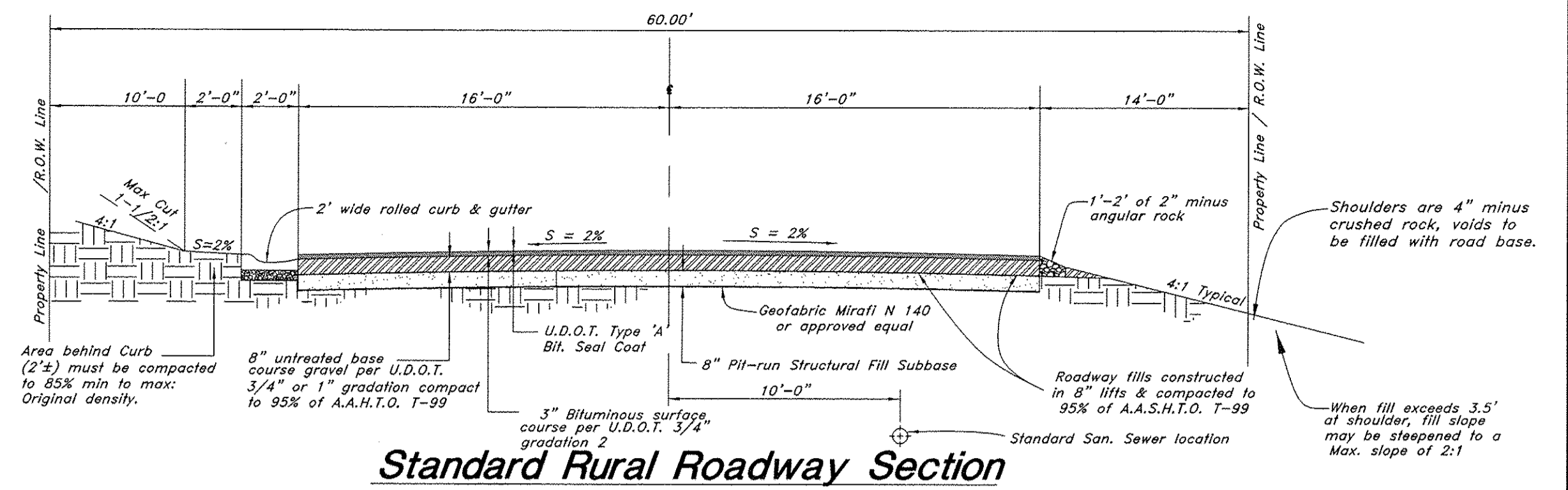
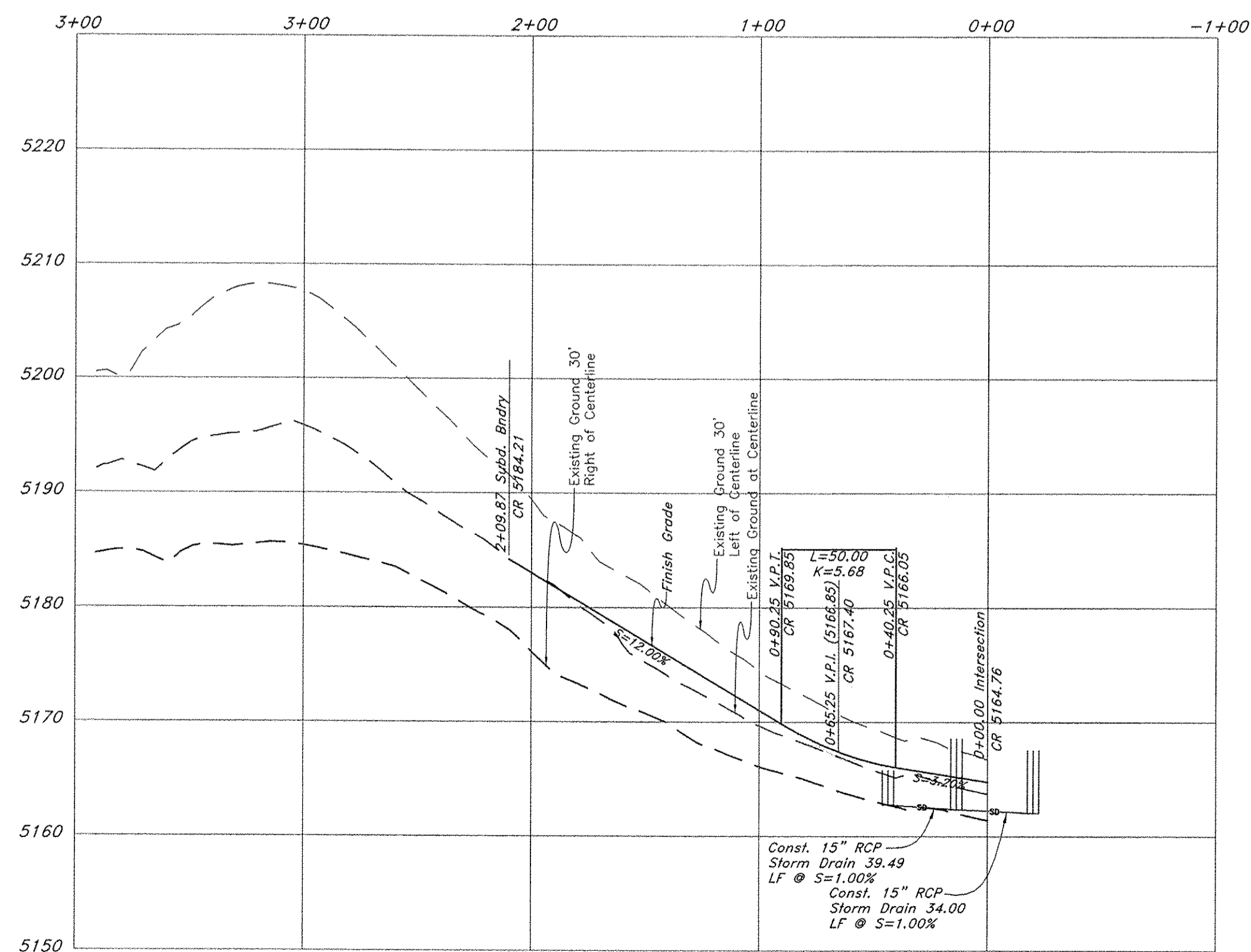
SHEET NO.

2a

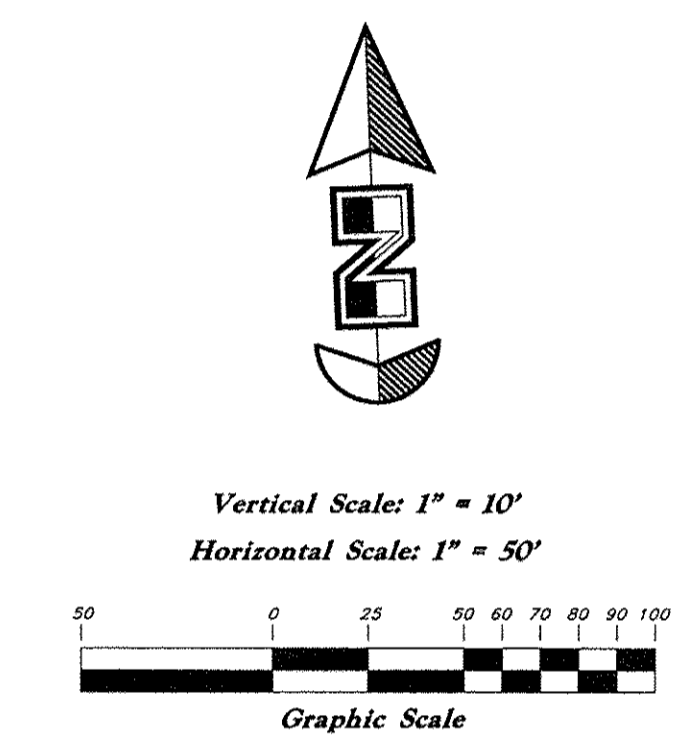
96N120 Waterline



Night Hawk Road



Standard Rural Roadway Section



Legend
(Note: All items may not appear on drawing)

San. Sewer Manhole	⊙
Water Manhole	⊙
Storm Drain Manhole	⊙
Electrical Manhole	⊙
Catch Basins	⊙
Exist. Fire Hydrant	⊙
Fire Hydrant	⊙
Exist. Water Valve	⊙
Water Valve	⊙
Sanitary Sewer	—
Culinary Water	—
Gas Line	—
Irrigation Line	—
Storm Drain	—
Telephone Line	—
Secondary Waterline	—
Power Line	—
Fire Line	—
Land Drain	—
Power pole w/guy	⊙
Light Pole	⊙
Fence	—
Flowline of ditch	—
Overhead Power line	—
Corrugated Metal Pipe	—
Concrete Pipe	—
Reinforced Concrete Pipe	—
Ductile Iron	—
Polyvinyl Chloride	—
Top of Asphalt	—
Edge of Asphalt	—
Centerline	—
Flowline	—
Finish Floor	—
Top of Curb	—
Top of Wall	—
Top of Walk	—
Top of Concrete	—
Natural Ground	—
Finish Contour	—
Exist. Contour	—
Finish Grade	—
Exist. Grade	—
Ridge Line	—
Direction of Flow	—
Existing Asphalt	—
New Asphalt	—
Heavy Duty Asphalt	—
Concrete	—
Open Face Curb & Gutter	—

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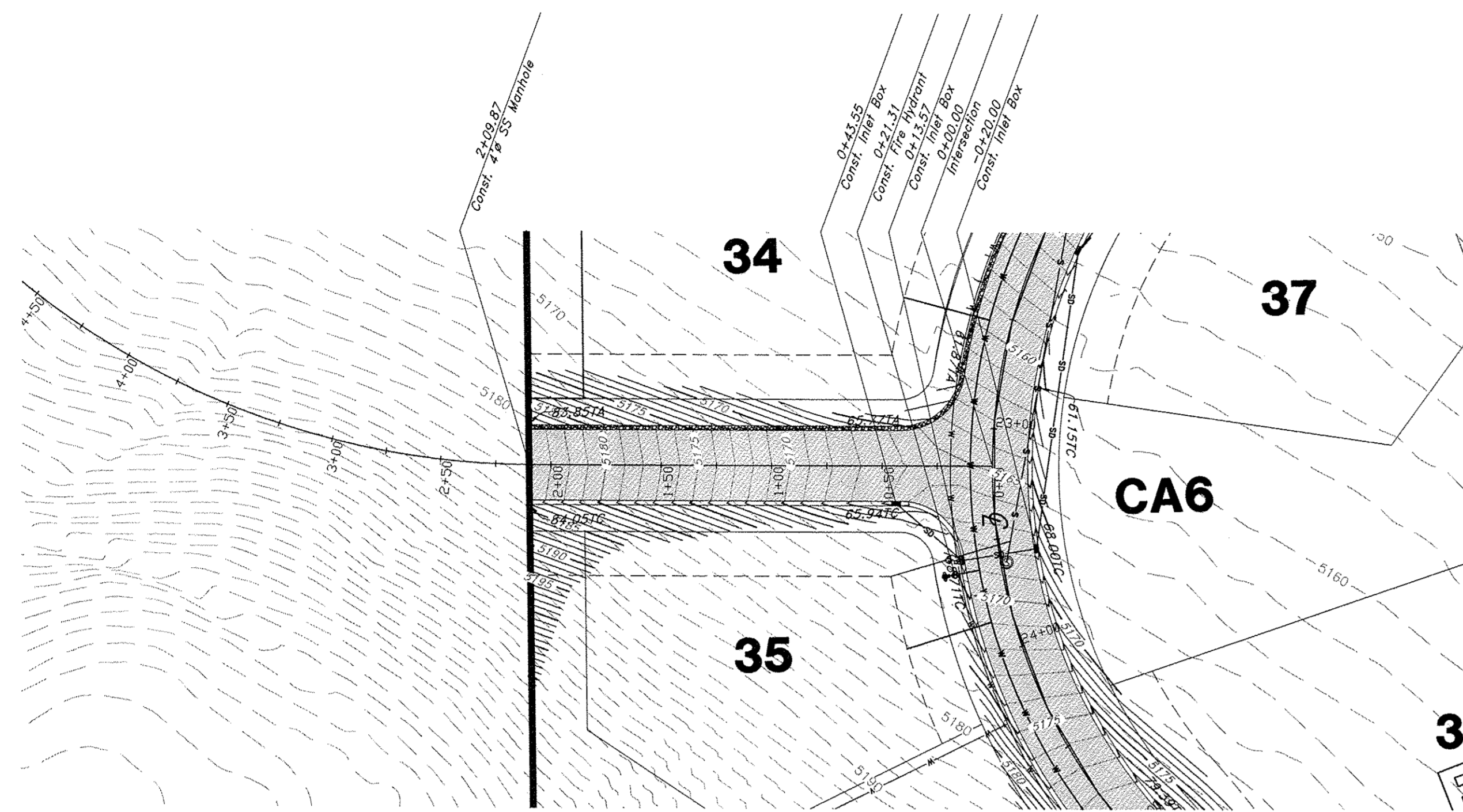
Plan / Profile (Utility)

The Chalets at Ski Lake No. 6
 A part of the Southwest 1/4 of Section 13, a part of the Northeast 1/4 of Section 24, 1/4 of Section 23, and a part of the Northwest 1/4 of Section 24, T6N, R1E, SLB&M, U.S. Survey

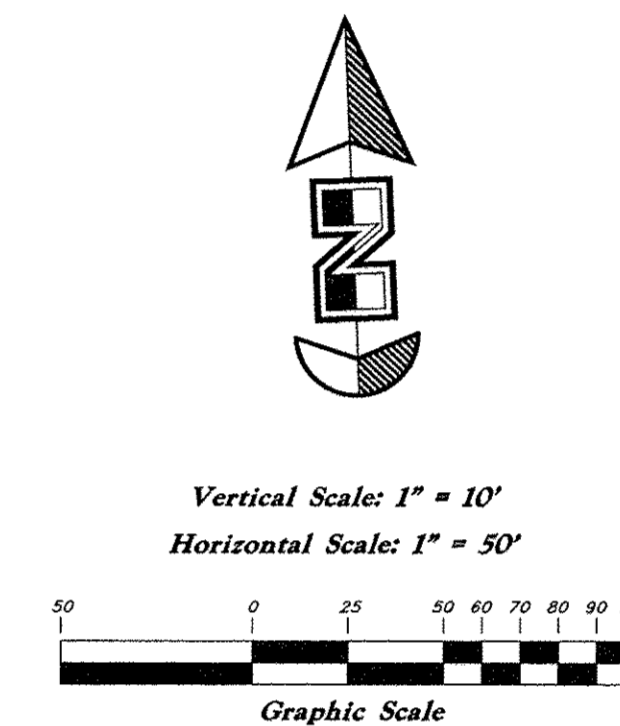
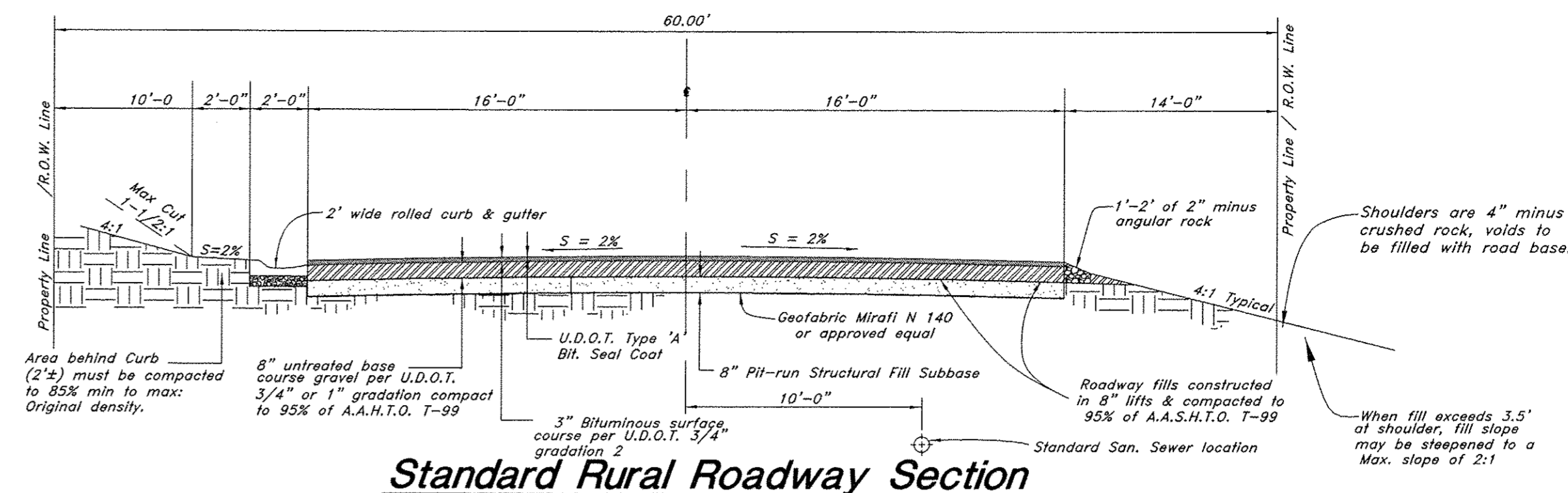
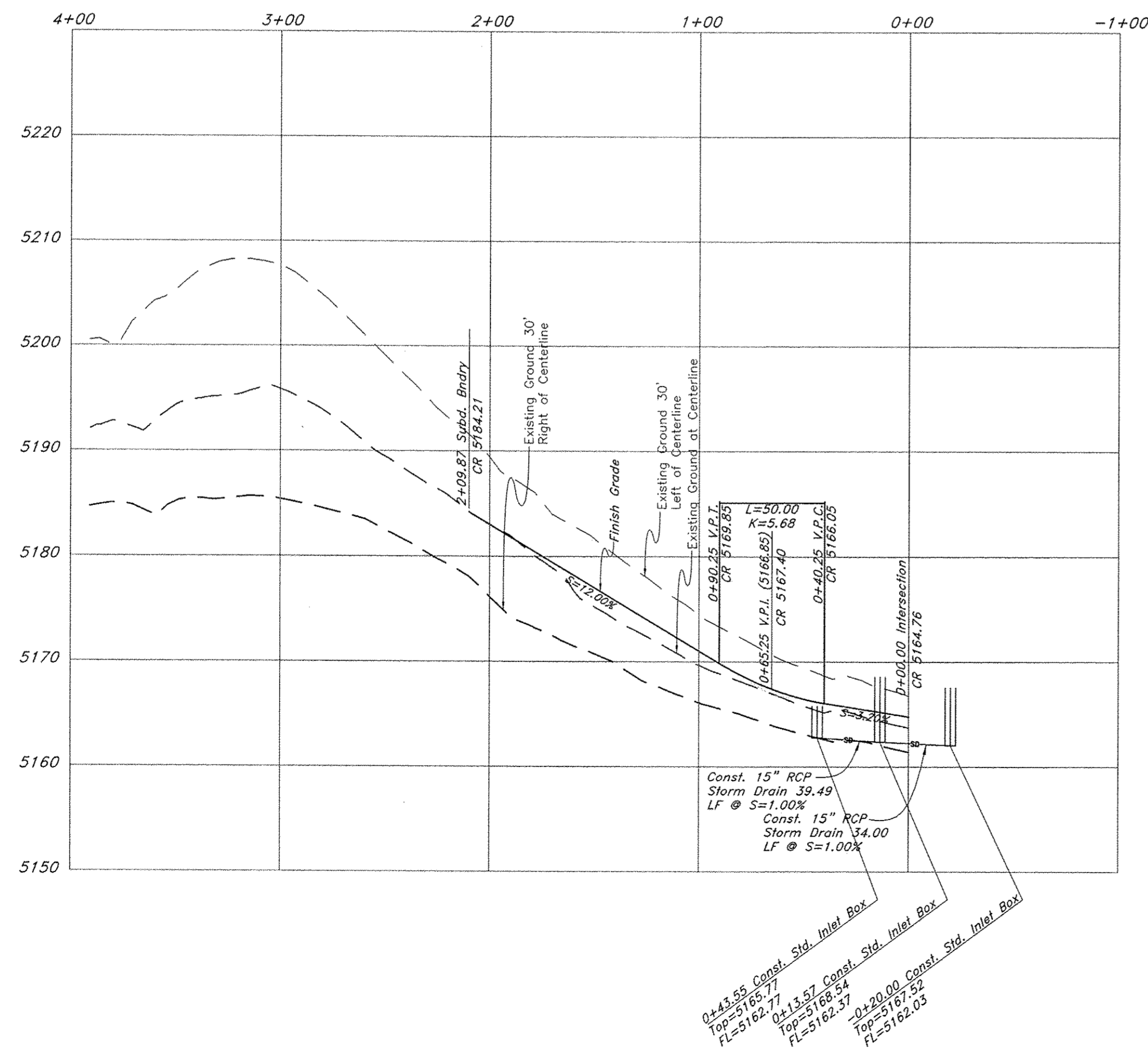
Jan, 2012

SHEET NO. **3**

96N120 Waterline



Nighthawk Road



Legend

(Note: All items may not appear on drawing)

San. Sewer Manhole	SM
Water Manhole	WM
Storm Drain Manhole	SDM
Electrical Manhole	EM
Catch Basins	CB
Exist. Fire Hydrant	OH
Fire Hydrant	FH
Exist. Water Valve	OV
Water Valve	WV
Sanitary Sewer	SS
Culinary Water	CW
Gas Line	GL
Irrigation Line	IL
Storm Drain	SD
Telephone Line	TL
Secondary Waterline	SW
Power Line	PL
Fire Line	FL
Land Drain	LD
Power pole	PP
Power pole w/guy	PPG
Light Pole	LP
Fence	FX
Flowline of ditch	FD
Overhead Power line	OHP
Corrugated Metal Pipe	CMP
Concrete Pipe	CP
Reinforced Concrete Pipe	RCP
Ductile Iron	DI
Polyvinyl Chloride	PVC
Top of Asphalt	TA
Edge of Asphalt	EA
Centerline	CL
Flowline	FL
Finish Floor	FF
Top of Curb	TC
Top of Wall	TW
Top of Walk	TW
Top of Concrete	TCN
Natural Ground	NG
Finish Contour	90
Exist. Contour	90
Finish Grade	95.331A
Exist. Grade	95.221A
Ridge Line	R
Direction of Flow	DF
Existing Asphalt	AS
New Asphalt	AS
Heavy Duty Asphalt	AS
Concrete	CON
Open Face Curb & Gutter	OCG

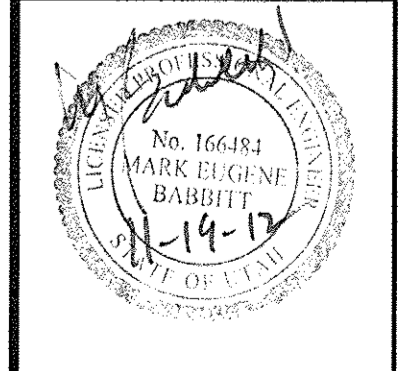
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Plan / Profile (Grading)

The Chalets at Ski Lake No. 6

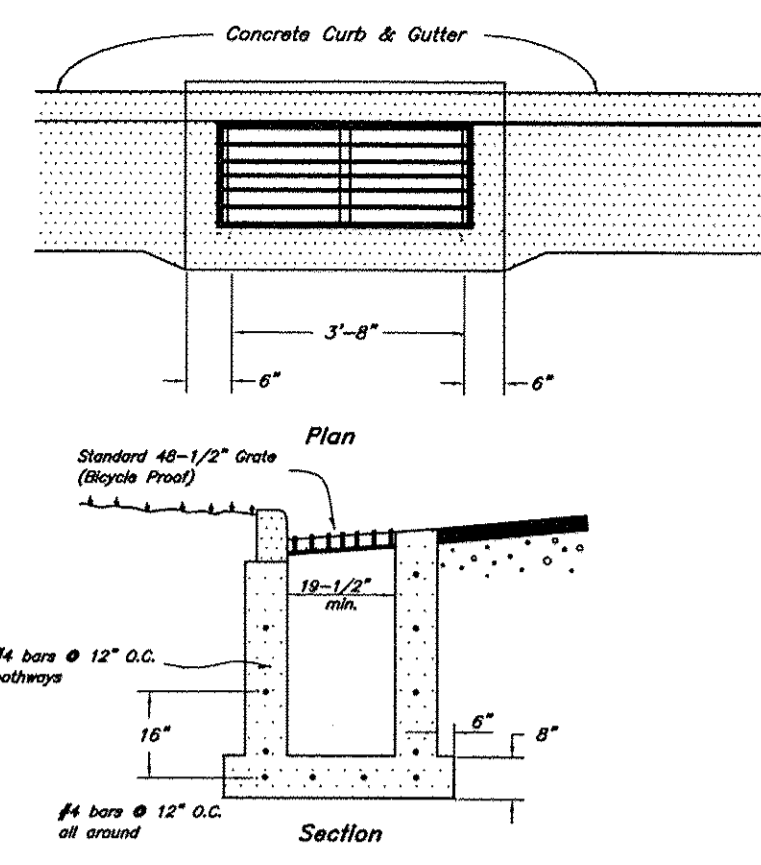
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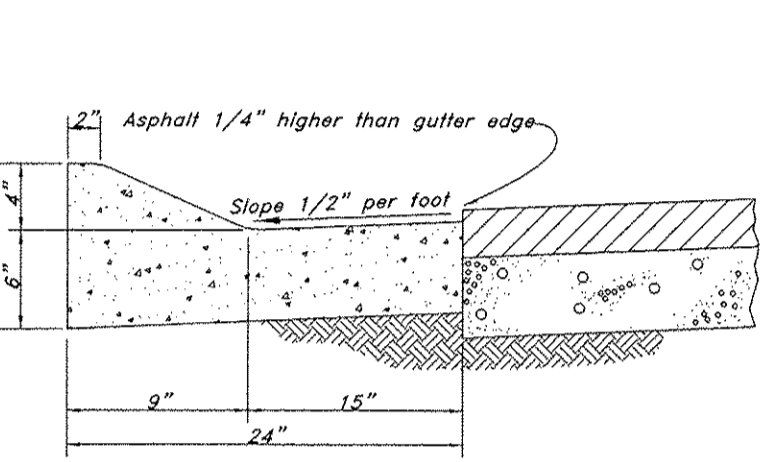
Jan, 2012

SHEET NO. **3a**

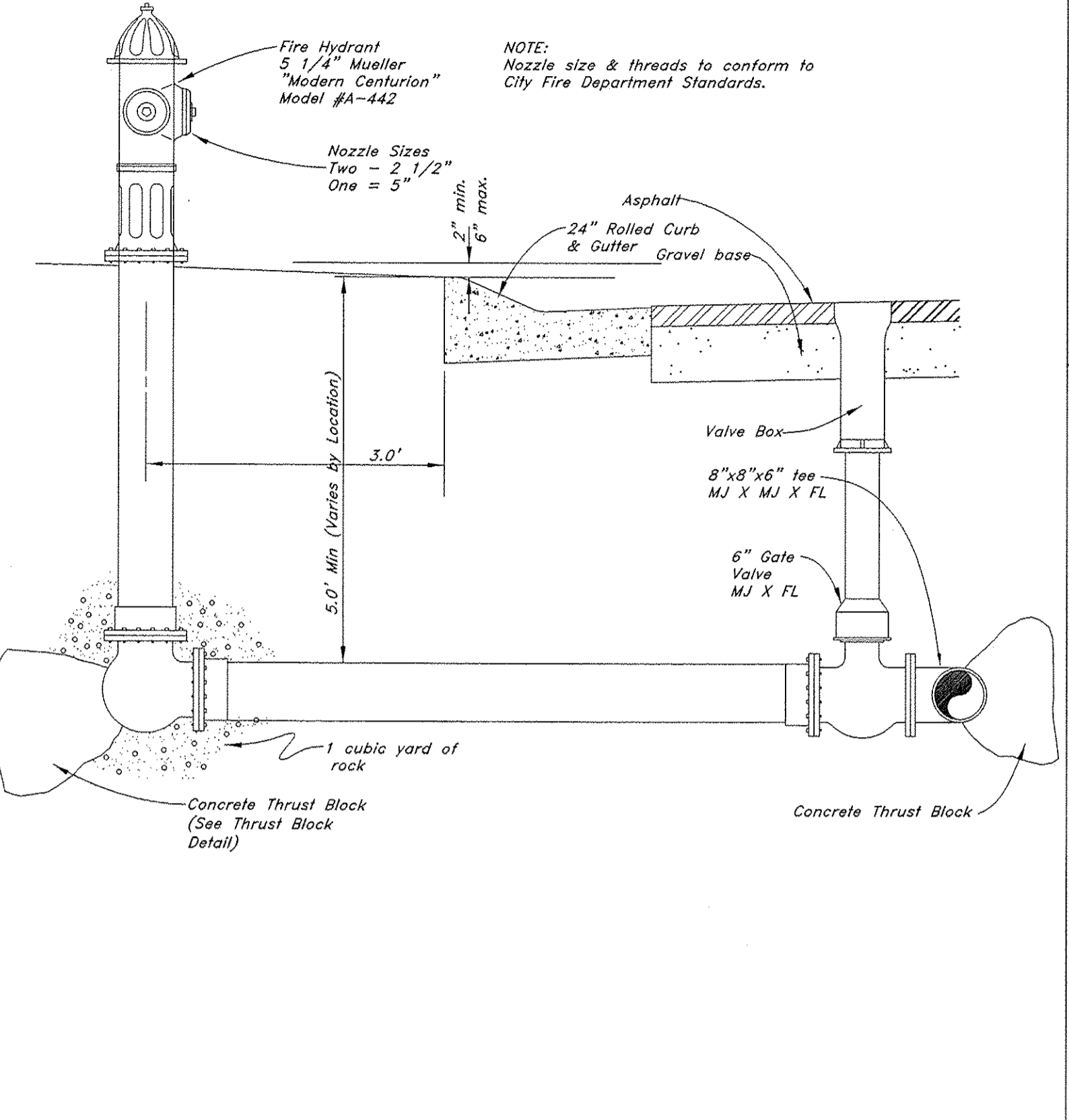
96N120 Waterline



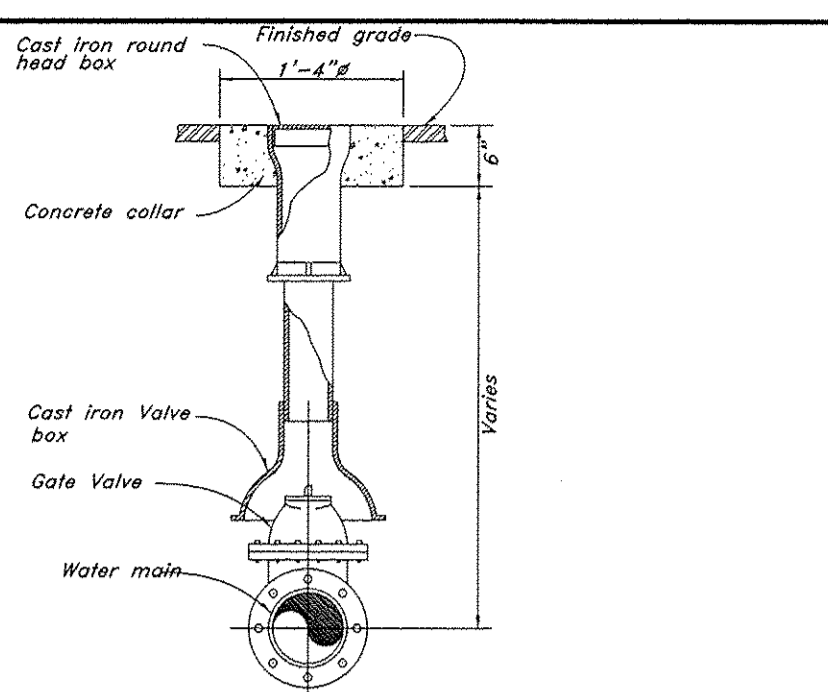
1 Typical Inlet Box
Not to Scale



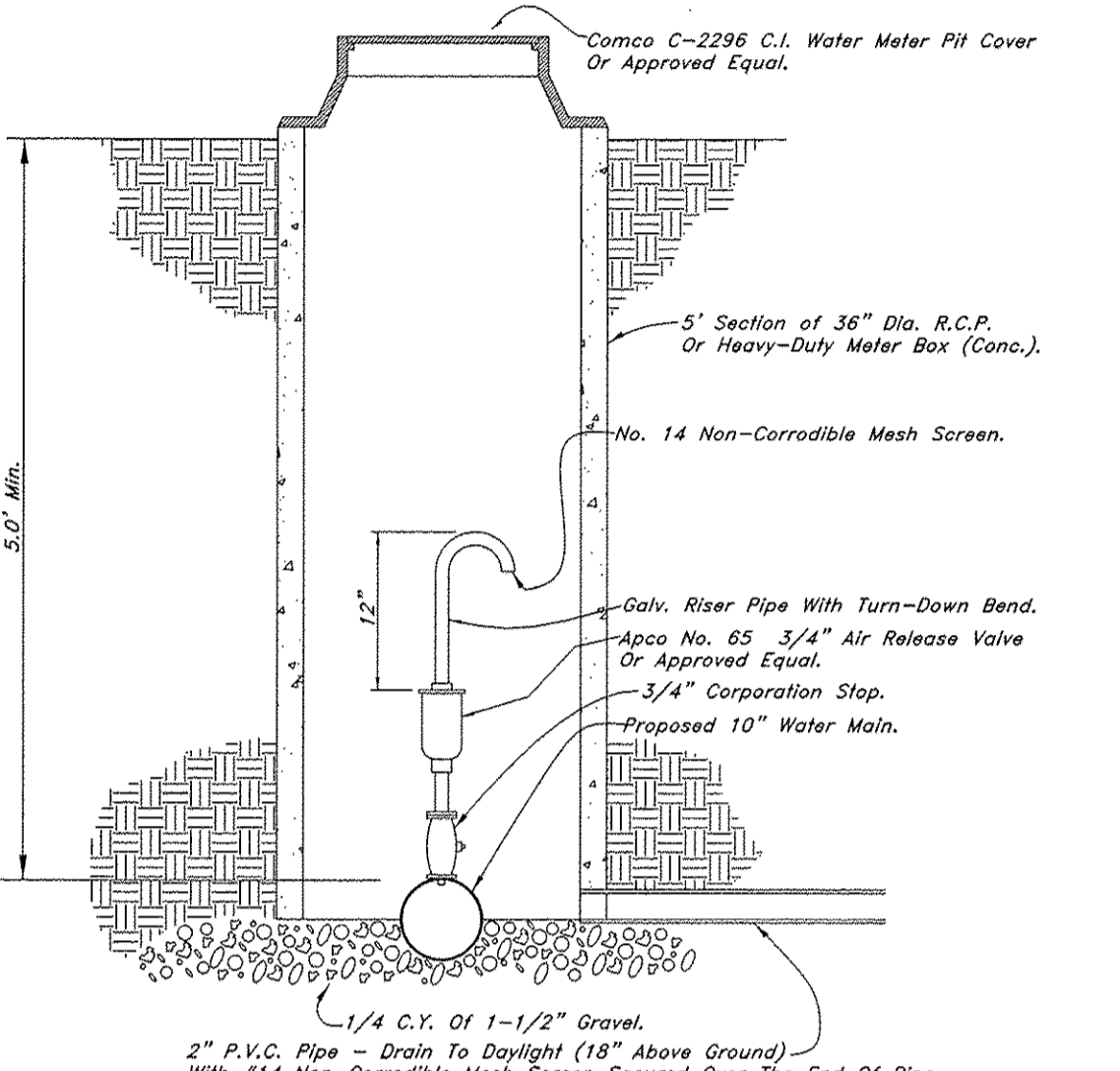
2 Typical 24" Std. Rolled Curb and Gutter
Not to Scale



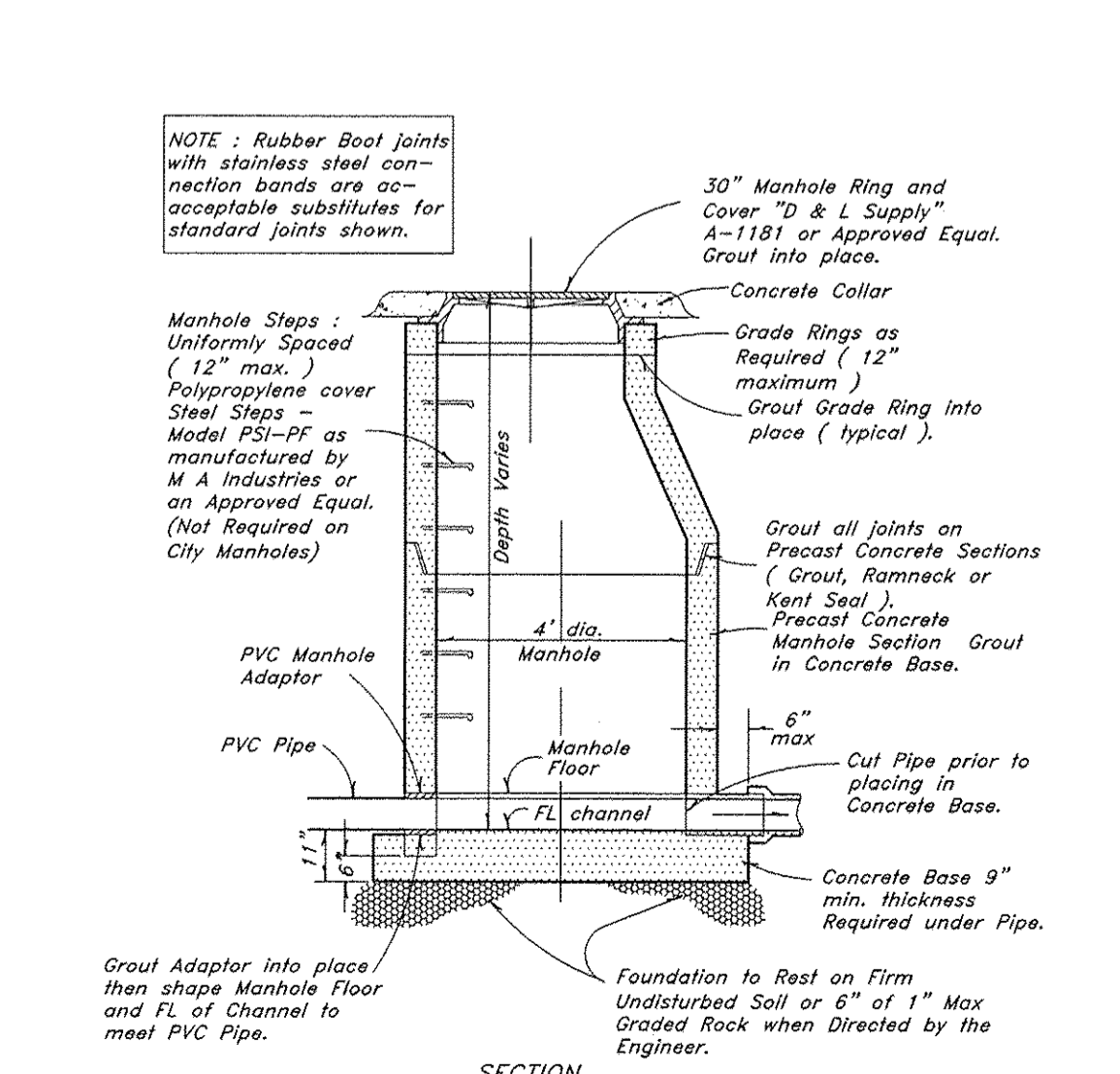
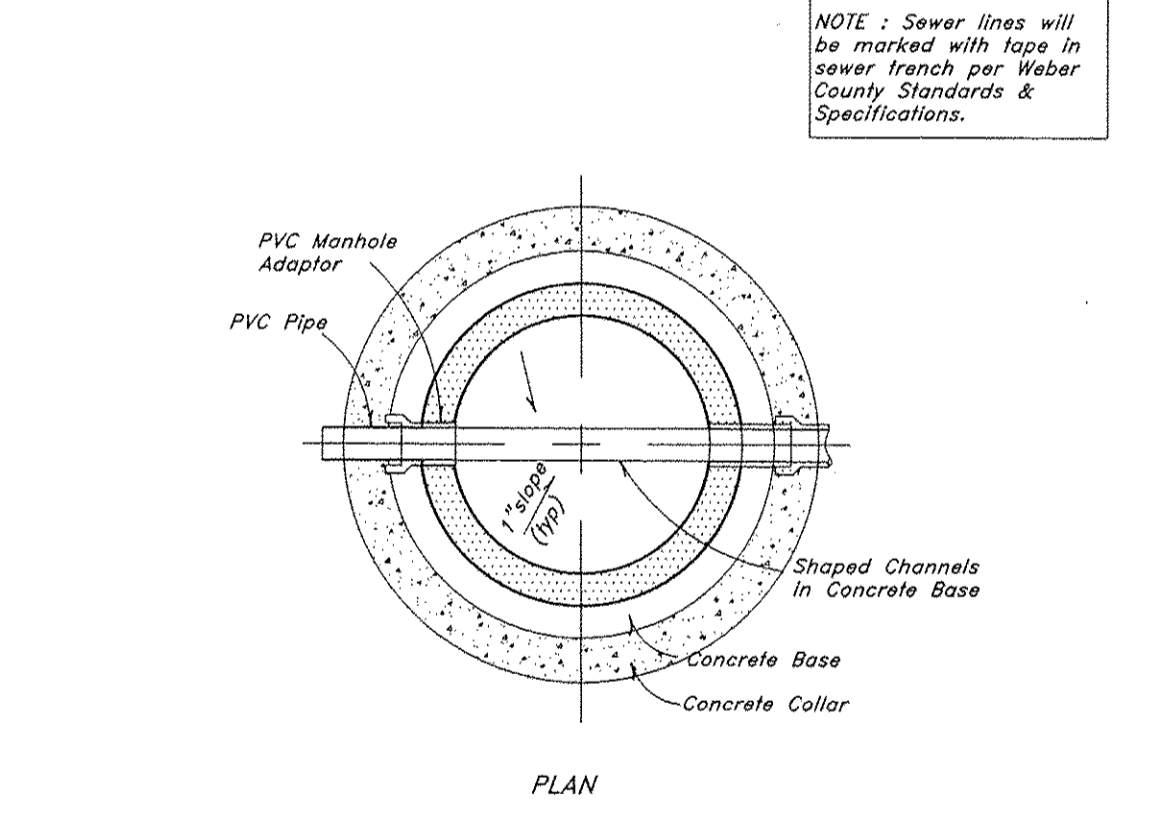
3 Typical Fire Hydrant & Valve Connection
Not to Scale



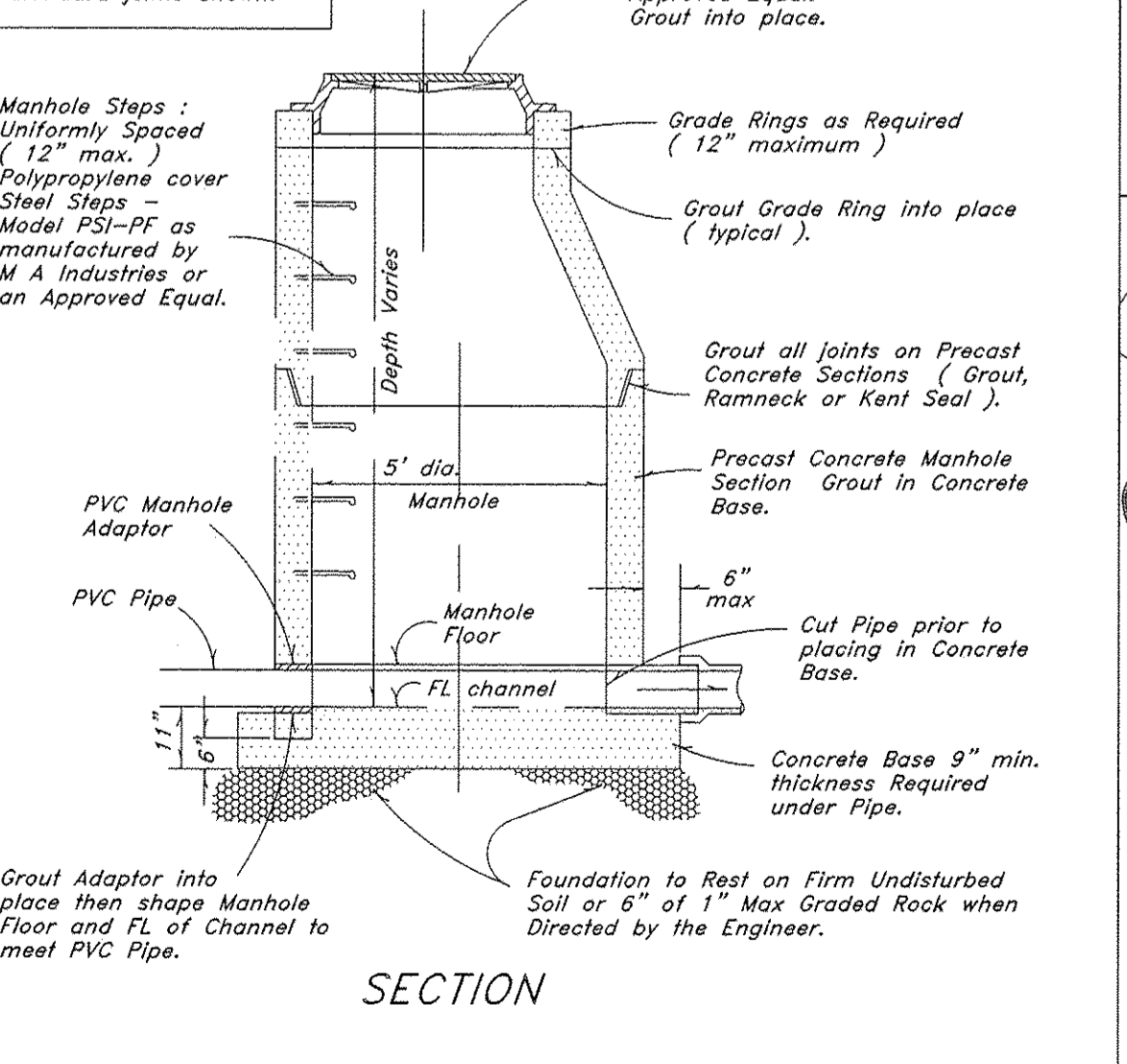
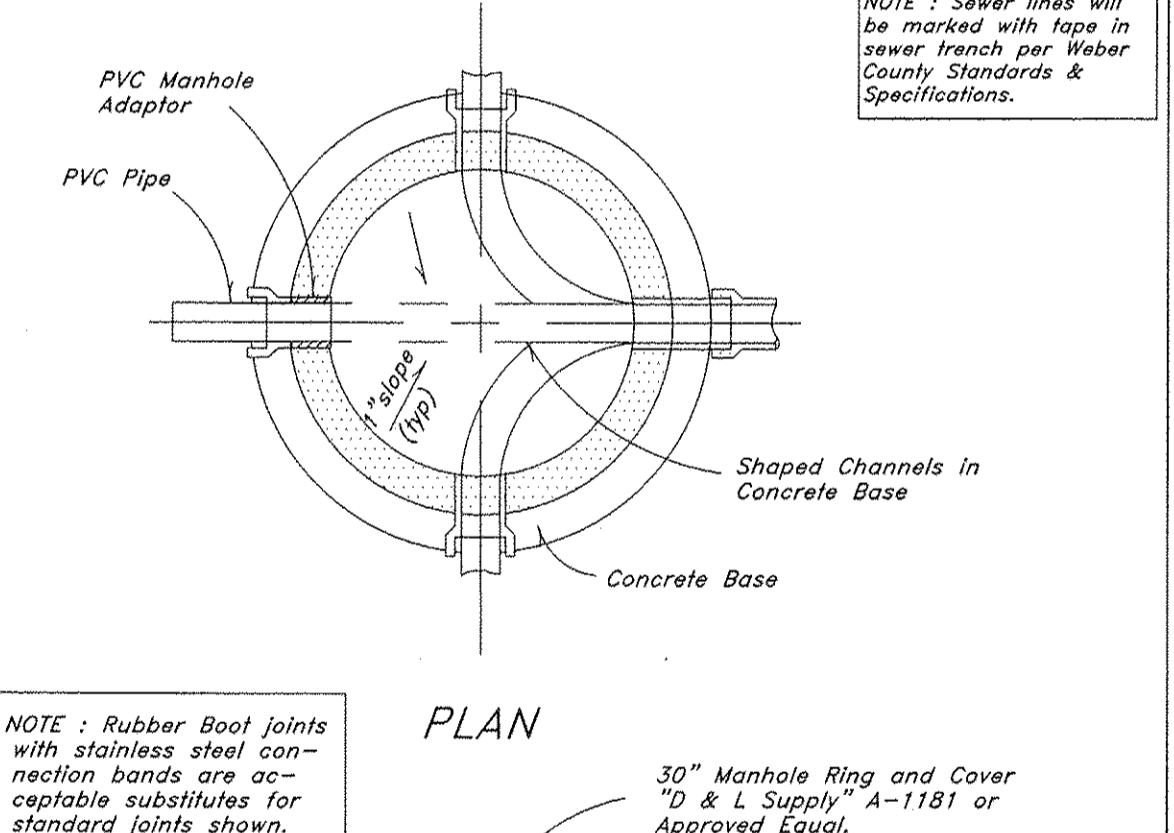
4 Typical Gate Valve
Not to Scale



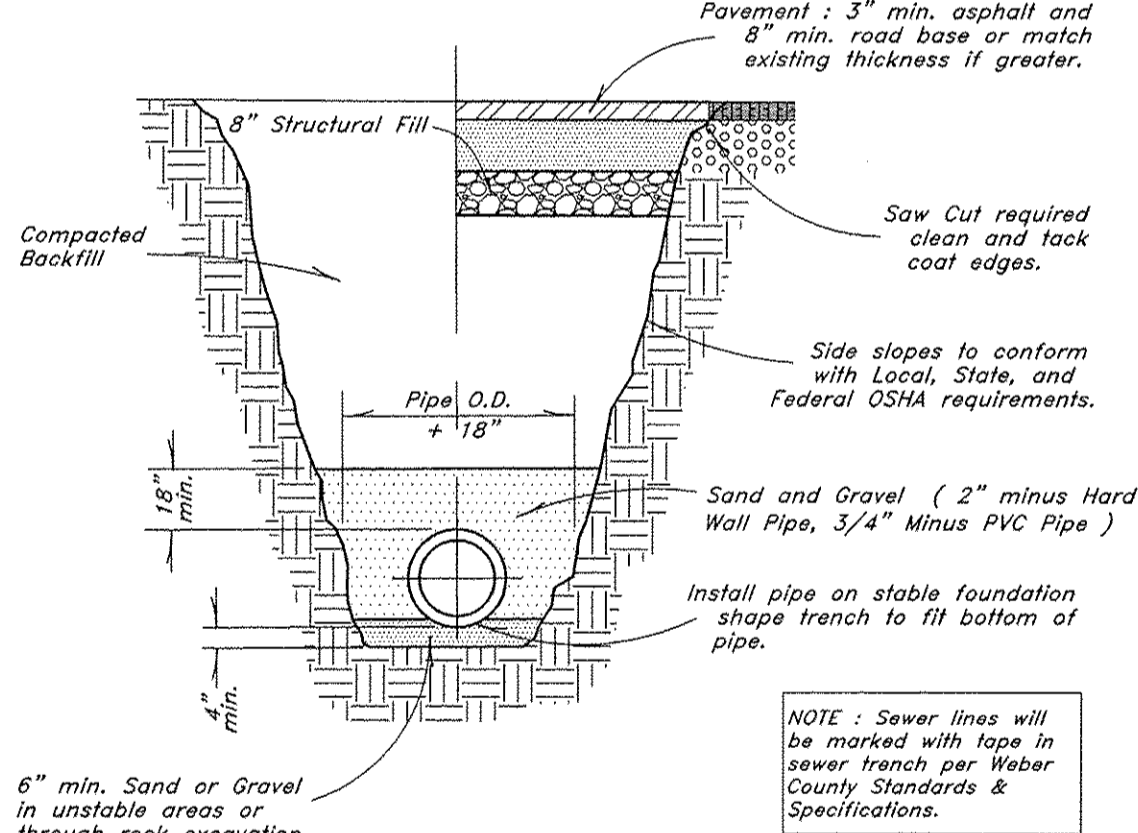
5 Air Release Detail
Not to Scale



8 Typical 4.0' Manhole Detail
Not to Scale



9 Typical 5.0' Manhole Detail
Not to Scale

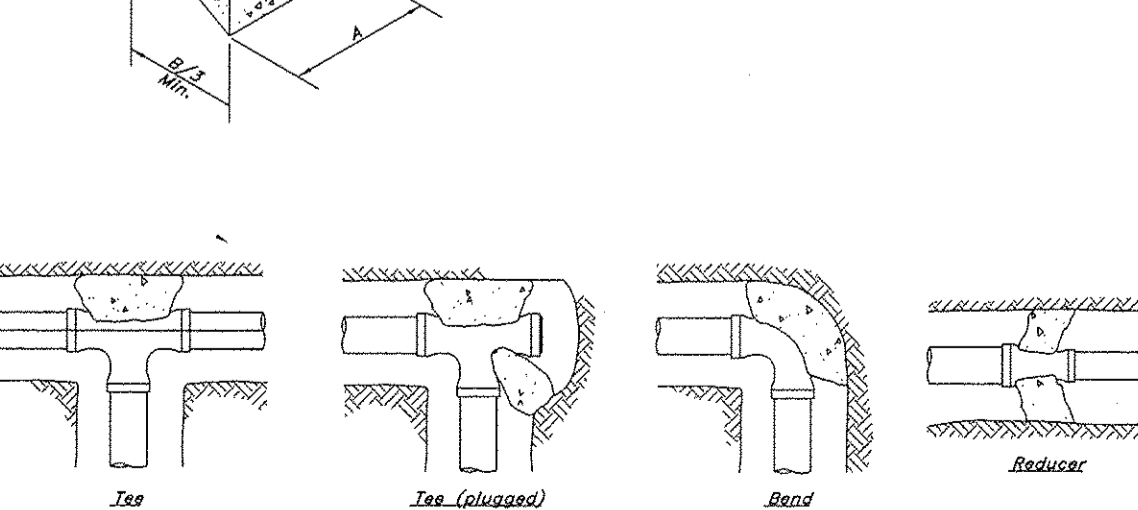


10 Typical Trench Detail
Not to Scale

DIMENSIONS FOR THRUST BLOCKING

FIT-ING SIZE	TEES & PLUGS		90° BEND		45° BEND		REDUCERS, 11 1/4" & 22 1/2" BENDS	
	A	B	A	B	A	B	A	B
4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
6"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
8"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"
10"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
12"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"	5 1/2"
14"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"	6 1/2"

NOTE: This table is based on 150 PSI Min Pressure 2000 RPI Soil Bearing Pressure.



11 Thrust Blocking Details
Not to Scale

REV	DATE	DESCRIPTION

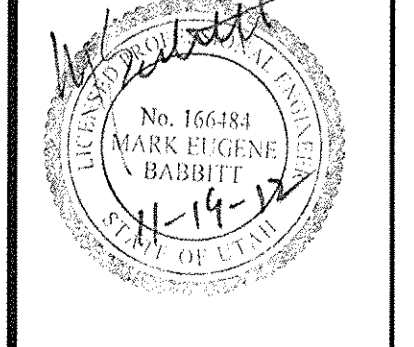
GREAT BASIN ENGINEERING

5746 SOUTH 1475 EAST OGDEN, UTAH 84403
 MAIN (801)394-4515 S.L.C. (801)521-0222
 WWW.GREATBASINENGINEERING.COM

Details

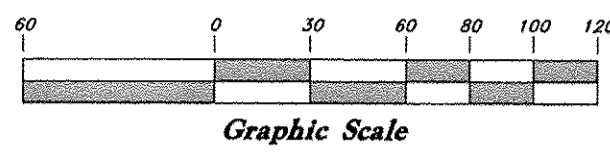
The Chalets at Ski Lake No. 6

A part of the Southwest 1/4 of Section 13, a part of the Northeast 1/4 of Section 23, and a part of the Northwest 1/4 of Section 24, T6N, R1E, S16&W, U.S. Survey





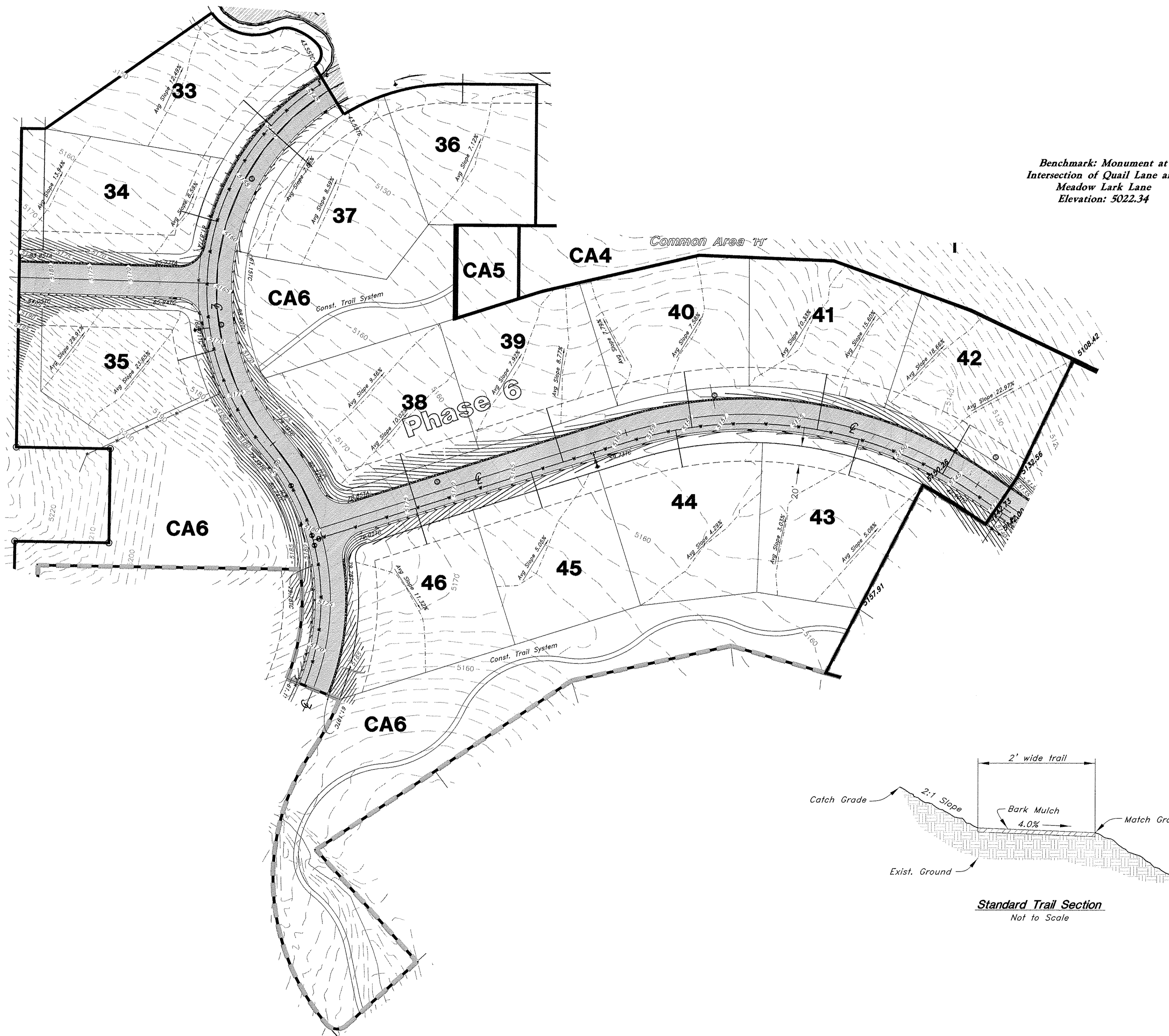
Scale: 1" = 60'



Legend

(Note: All items may not appear on drawing)

- San. Sewer Manhole
- Water Manhole
- Storm Drain Manhole
- Electrical Manhole
- Catch Basins
- Exist. Fire Hydrant
- Fire Hydrant
- Exist. Water Valve
- Water Valve
- Sanitary Sewer
- Utility Water
- Gas Line
- Irrigation Line
- Storm Drain
- Telephone Line
- Secondary Waterline
- Power Line
- Fire Line
- Land Drain
- Power pole w/guy
- Light Pole
- Fence
- Flowline of ditch
- Overhead Power line
- Corrugated Metal Pipe
- Concrete Pipe
- Reinforced Concrete Pipe
- Ductile Iron
- Polyvinyl Chloride
- Top of Asphalt
- Edge of Asphalt
- Centerline
- Flowline
- Finish Floor
- Top of Curb
- Top of Wall
- Top of Walk
- Top of Concrete
- Natural Ground
- Finish Contour
- Exist. Contour
- Finish Grade
- Exist. Grade
- Ridge Line
- Direction of Flow
- Existing Asphalt
- New Asphalt
- Heavy Duty Asphalt
- Concrete
- Open Face
- Curb & Gutter



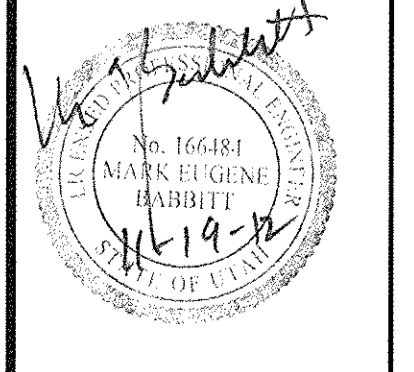
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Average Slope Exhibit

The Chalets at Ski Lake No. 6

A part of the Southwest 1/4 of Section 13, a part of the Northeast 1/4 of Section 23, and a part of the Northwest 1/4 of Section 24, T6N, R1E, SLB&M, U.S. Survey



Jan, 2012

SHEET NO.

EX

96N120 Waterline

PROJECT NOTIFICATION FORM (PNF)

Please provide the following information for **all Drinking Water Projects** by existing PWS's

Use with Plan Submittal [R309-500-6(1)] or when requesting Waiving of Plan Submittal [R309-500-6(3)]

If this is a new PWS, please complete the Supplemental PNF available on our website: drinkingwater.utah.gov/blank_forms.htm

Upon completion, Submit by Email, fax or mail to:

State of Utah - Dept of Environmental Quality - Division of Drinking Water
P.O. Box 144830 - Salt Lake City, Utah - 84114-4830 (801) 536-4200 fax (801) 536-4211

File No:

Date Rec'd:

1 Name of PWS [owner of system as recorded with DDW]

System Name: Lakeview Water Corporation / Ray Bowden

System Number: 29024

Address: 5393 E 6850 N

City, State, Zip: Eden, UT 84310

Present No. of ERC's system is obligated to serve: 224

Present No. of ERC's physically connected to system: 216

Population Served: 540

No. of ERC's this project will add to system: 28

2 Addressee for Official Correspondence [Mayor, Public Works Director, etc...]

Name: Ray Bowden

Title: Owner

Address: 5393 E 6850 N

City, State, Zip: Eden, UT 84310

Phone No: 801-725-1517

E-Mail Address: _____

3 PE designated as Direct Responsible Engineer for Entire System (if applicable)

Company Name: Great Basin Engineering

Name: Mark Babbitt

Address: 5746 S 1475 E, Ste. 200

City, State, Zip: Ogden, UT 84403

Phone No: 801-394-4515

E-Mail Address: markb@greatbasinengineering.com

4 PE responsible for design of this Project [if not same as item 3]

Name: SAME

Address: _____

City, State, Zip: _____

Phone No: _____ Fax No: _____

E-Mail Address: _____

5 Name of Construction Inspector(s) and frequency of inspection

Name: Jim Banks

Full Time: _____ Part Time: X

6 Description of Project [in sufficient detail for DDW to identify]

Expansion of Existing Water System which Serves Several Developments including Ski Lake Estates, Valley Lake Estates, The Summit at Ski Lake, and The Chalets at Ski Lake. This expansion will include an expansion of approximately 6,700 linear feet of 10" waterline.

7 Anticipated Construction Schedule:

Advertise for Bids: _____

Bid Opening: _____

Begin Construction: November 2012±

Complete Construction: July 2013±

8 Is this PNF for plan review waiver 3a? [see R309 500-6(3a) to verify]

Yes No

If Yes, you must have a previously approved Master Plan and Construction Standards.

Is this PNF for plan review waiver 3b? [see R309 500-6(3b) to verify]

Yes No

If Yes, you must have a designated PE responsible for the system and previously approved Construction Standards.

Does this project meet any of the criteria to be exempt from the hydraulic modeling rule requirements? [see R309 511-4(1)(a)(i) through (iv) to verify]

Yes No

If Yes, specify rule reference here:
[for example, R309-511-4(1)(a)(ii)]

9 Fire Suppression Authority [if system has fire hydrants]

Name: Weber County Fire Department

Address: 2023 W 1300 N

City, State, Zip: Farr West, UT 84404

Phone No: 801-782-3580

Fax No: 801-782-3582

E-Mail Address: _____

Req'd flow (gpm): _____ Duration (hrs): _____

10 Funded by State or Federal Agency?

Drinking Water Board (SRF or FSRF) Loan #: _____

Community Impact Board

None

Other (Specify) Lakeview Water Corp.

**UTILITY CONSTRUCTION PROPOSAL
THE CHALETS AT SKI LAKE PHASE 6
WEBER COUNTY, UTAH**

(14 Lots)
March 2012

DEVELOPER: Ray Bowden

ENGINEER'S ESTIMATE

\$536,610.80 / 14 Lots = \$38,329 Per Lot

PROPOSAL

I (We), the undersigned Contractor propose to do the following described work in strict compliance with the Standard Weber County Standards and Technical Specifications at the prices shown. The Contractor shall be licensed to perform such work by the State of Utah and Weber County. The Contractor shall also provide sufficient insurance to hold the owner free from all liabilities. The Contractor shall furnish guarantee that the improvements contemplated by this proposal will remain in good condition for the one year period from the date of acceptance by Weber County. The determination of the necessity for repairs to restore the improvement to good condition rests entirely with the Owner.

<u>SECTION I</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
<u>Streets</u>			
1. Rough Grading of Streets to Sub-Base Grade from Property Line to Property Line Surplus Material to be used to fill front Lots (1684 L.F.)	LUMP SUM	\$ 58,800.00 ls	\$ 58,800.00
2. Street Monuments	3 ea	\$ 475.00 ea	\$ 1,425.00
<u>Water</u>			
1. Furnish and install 10-inch C900 P.V.C. Pipe Watermain (Class 200)	1,324 lf	\$ 22.00 lf	\$ 29,128.00
2. Furnish and install 8-inch C900 P.V.C. Pipe Watermain (Class 200)	158 lf	\$ 19.00 lf	\$ 3,002.00
3. Connect to existing Pipe	1 ea	\$ 1,000.00 ea	\$ 1,000.00
4. Connect to existing water tank	0 ea	\$ 1,500.00 ea	\$.00
5. Furnish and construct 8 inch Fire Hydrants with Aux. Valve, Box and Pipe to main, including Tee, Complete Unit	2 ea	\$ 3,500.00 ea	\$ 7,000.00
6. Service Connections complete	14 ea	\$ 1,000.00 ea	\$ 14,000.00
7. Furnish and install 8 inch Gate Valve	1 ea	\$ 850.00 ea	\$ 850.00
8. Furnish and install 10 inch Gate Valve	2 ea	\$ 1,000.00 ea	\$ 2,000.00
9. Furnish and install 2" Blowoff in Vault	0 ea	\$ 1,000.00 ea	\$.00
10. Furnish and install Air Relief Valve	1 ea	\$ 2,000.00 ea	\$ 2,000.00
11. Furnish and install vault for future PRS	0 ea	\$ 5,000.00 ea	\$.00
12. Test and Chlorinate	LUMP SUM	\$ 2,000.00 ls	\$ 2,000.00
		SUB TOTAL	\$ 60,980.00
SECTION I		SUB TOTAL	\$ 121,205.00

	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
<u>SECTION II</u>			
<u>Sewer</u>			
1. Furnish and install 8 inch Sanitary P.V.C Sewer Main	925 lf	\$ 21.00 lf	\$ 19,425.00
2. Furnish and install 5 foot Diameter Manhole	0 ea	\$ 2,500.00 ea	\$.00
3. Furnish and install 4 foot Diameter Manhole	5 ea	\$ 2,300.00 ea	\$ 11,500.00
4. Connect to existing Sanitary Sewer Main	2 ea	\$ 600.00 ea	\$ 1,200.00
5. Furnish and install Service Connections (complete)	14 ea	\$ 800.00 ea	\$ 11,200.00
6. Temp end - Plug	0 ea	\$ 250.00 ea	\$.00
7. Video and Test	LUMP SUM	\$ 2,000.00 ls	\$ 2,000.00
		SUB TOTAL	\$ 45,325.00

SECTION III

Grading and Paving

1. Fine grading of Streets to Sub-Base Grade, surplus material to fill on Lots (1684 L.F.)	LUMP SUM	\$ 5750.00 ls	\$ 5,750.00
2. Furnish and install structural fill sub-base 8-inches thick	5,934 sy	\$ 9.50 sy	\$ 56,373.00
3. Furnish and install Crushed Gravel Untreated Base Course (8 inch thick)	5,934 sy	\$ 10.50 sy	\$ 62,307.00
4. Furnish and install Oil Mulch Paving (3 inch thick)	5,934 sy	\$ 16.00 sy	\$ 94,944.00
5. Furnish and install Seal Coat	5,934 sy	\$ 2.50 sy	\$ 14,835.00
6. Furnish and install 24 inch wide rolled concrete curb and gutter with 4 inch gravel sub-base	1,882 lf	\$ 13.00 lf	\$ 24,466.00
7. Grading/Reshaping Detention Pond Area	0 cy	\$ 12.00 cy	\$.00
8. Geofabric Mirafi	5,934 sy	\$ 3.00 sy	\$ 17,802.00
		SUB TOTAL	\$ 276,477.00

SECTION IV

Storm Drain

1. Furnish and install Catch Basin (rural)	7 ea	\$ 1300.00 lf	\$ 9,100.00
2. Furnish and install 4 foot diameter manhole with Catch Basin (rural)	0 ea	\$ 2200.00 ea	\$.00
3. Furnish and install 15 inch CP	610 lf	\$ 24.00 lf	\$ 14,640.00
4. Furnish and install 18 inch RCP	0 lf	\$ 27.00 lf	\$.00
5. Furnish and install 12 inch RCP	0 lf	\$ 21.00 lf	\$.00

Storm Drain Continued

5. Connect to existing Storm Drain	2 ea	\$ <u>300.00</u> ea	\$ <u>600.00</u>
6. Temporary end plug	0 ea	\$ <u>150.00</u> ea	\$ <u>.00</u>
		SUB TOTAL	\$ <u>24,340.00</u>

SECTION V

Trenching

1. Coordinate and provide trenching for Power Cable TV and Telephone as needed (Verify with Utility Companies)	3,368 lf	\$ <u>2.00</u> lf	\$ <u>6,736.00</u>
2. Erosion Control	LUMP SUM	\$ <u>8150.00</u> LS	\$ <u>8,150.00</u>
		SUB TOTAL	\$ <u>14,886.00</u>

SECTION VI

Trail System

1. Const. 2' Wide Bark Mulch Trail System	1,119 lf	\$ <u>5.00</u> lf	\$ <u>5,595.00</u>
		SUB TOTAL	\$ <u>5,595.00</u>

TOTAL OF SECTION I	\$ <u>121,205.00</u>
TOTAL OF SECTION II	\$ <u>45,325.00</u>
TOTAL OF SECTION III	\$ <u>276,477.00</u>
TOTAL OF SECTION IV	\$ <u>24,340.00</u>
TOTAL OF SECTION V	\$ <u>14,886.00</u>
TOTAL OF SECTION VI	\$ <u>5,595.00</u>
TOTAL OF ALL SECTIONS	\$ <u>487,828.00</u>
PLUS 10% CONTINGENCY	<u>48,782.80</u>
GRAND TOTAL	\$ <u>536,610.80</u>

Work May Be Awarded On Any Or All Sections.

Contractor's State License No.

Contractor

Type of License

By

Insurance Agent

Address