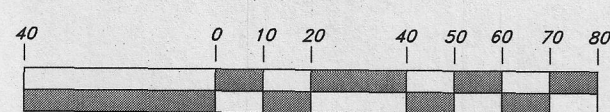


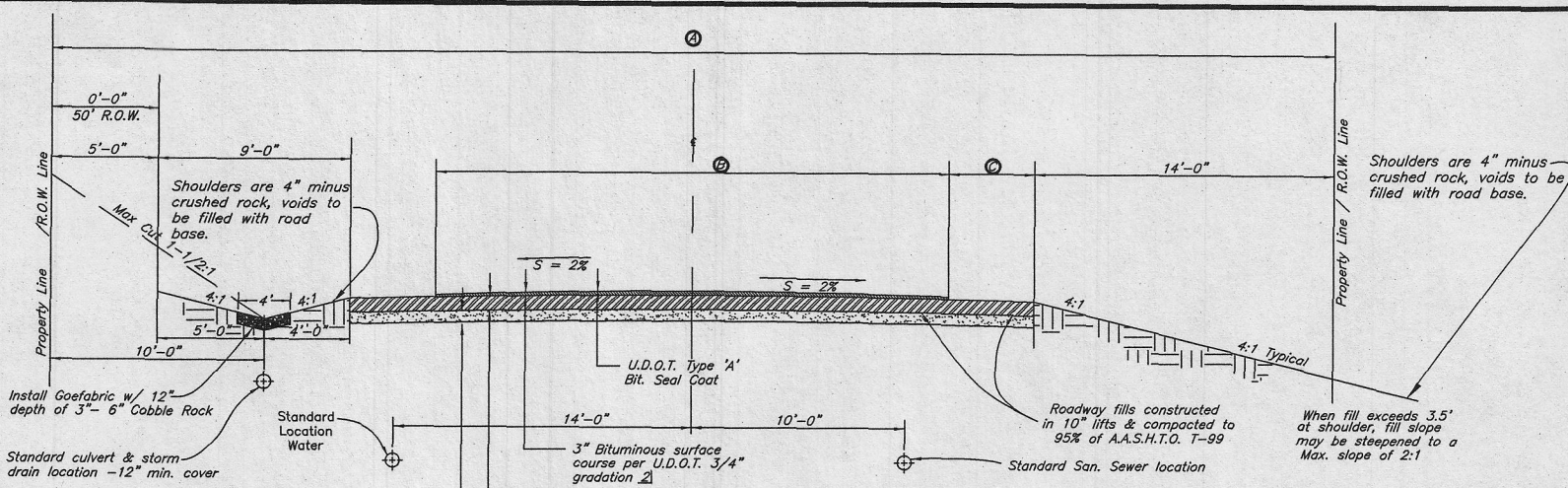


Scale: 1" = 40'



Graphic Scale

Benchmark:
Top of Nail approximately 43 feet
northeast of the Southeast Corner of
Lot 41, Phase 11, Summit at Ski Lake
Subdivision in Weber County, Utah.
Elev: 5213.16



STREET DESIGN	R.O.W. Width	Surface Course Width	Shoulder Width
1 Minor and/or Private	50'	24'	4'
Standard Residential	60'	24'	4'
Collector	66'	28'	5'
2 Minor Arterial	80'	44' (30")	4' 3"
2 Major Arterial	100' (Consult County Engineer for Specific Requirements)		

Standard Rural Roadway Section

NOTE: These pavement thicknesses shall be considered as minimums and may be increased by the County Engineer when warranted. It is the responsibility of the County Engineer when a greater depth is necessary to provide sufficient strength. Changes may be made on an alternative pavement design based on a detailed subgrade analysis approved by the County Engineer.

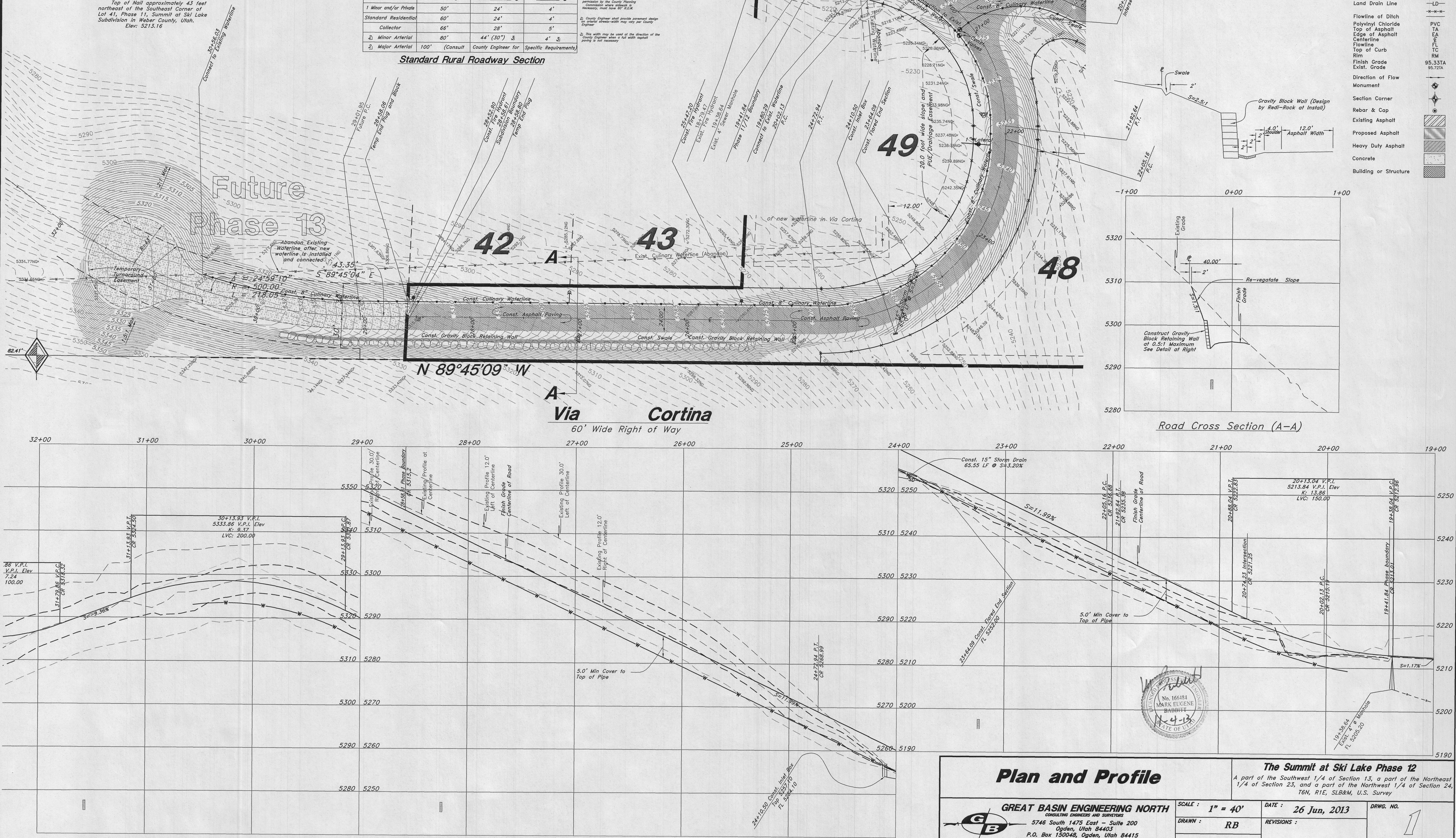
2. County Engineer shall provide pavement design on special street-width may vary per County Engineer when a full width is required.

3. This width may be used as the direction of the survey is not necessary.

Erosion Control Notes :

- Sandbags will be placed at discharge locations to contain and divert storm water through straw bales.
- An earthen berm 6" high will be constructed to contain the storm water and divert it to discharge areas.
- Storm water will be discharged into an existing drainage system. Existing Lines shall be inspected prior to Certificate of Occupancy and cleaned if necessary.
- The Storm Water Prevention Plan shall conform to all State Division of Environmental Protection Regulations.

Legend	
(Note: All items may not appear on drawing)	
Sanitary Sewer Manhole	SS
Water Manhole	WM
Storm Drain Manhole	SD
Electric Manhole	EM
Catch Basin	CB
Proposed Fire Hydrant	FH
Exist. Fire Hydrant	FH
Proposed Water Valve	WV
Exist. Water Valve	WV
Sanitary Sewer Line	SS
Culinary Water Line	CL
Gas Line	G
Irrigation Line	IL
Storm Drain Line	SD
Telephone Line	T
Secondary Water Line	SW
Underground Power Line	UP
Land Drain Line	LD
Flowline of Ditch	FL
Polyvinyl Chloride	PVC
Top of Asphalt	TA
Edge of Asphalt	EA
Centerline	CL
Flowline	FL
Top of Curb	TC
Rim	RM
Finish Grade	95.33TA
Exist. Grade	95.72TA
Direction of Flow	Monument
Section Corner	Section Corner
Rebar & Cap	Rebar & Cap
Existing Asphalt	Existing Asphalt
Proposed Asphalt	Proposed Asphalt
Heavy Duty Asphalt	Heavy Duty Asphalt
Concrete	Concrete
Building or Structure	Building or Structure



Plan and Profile

The Summit at Ski Lake Phase 12

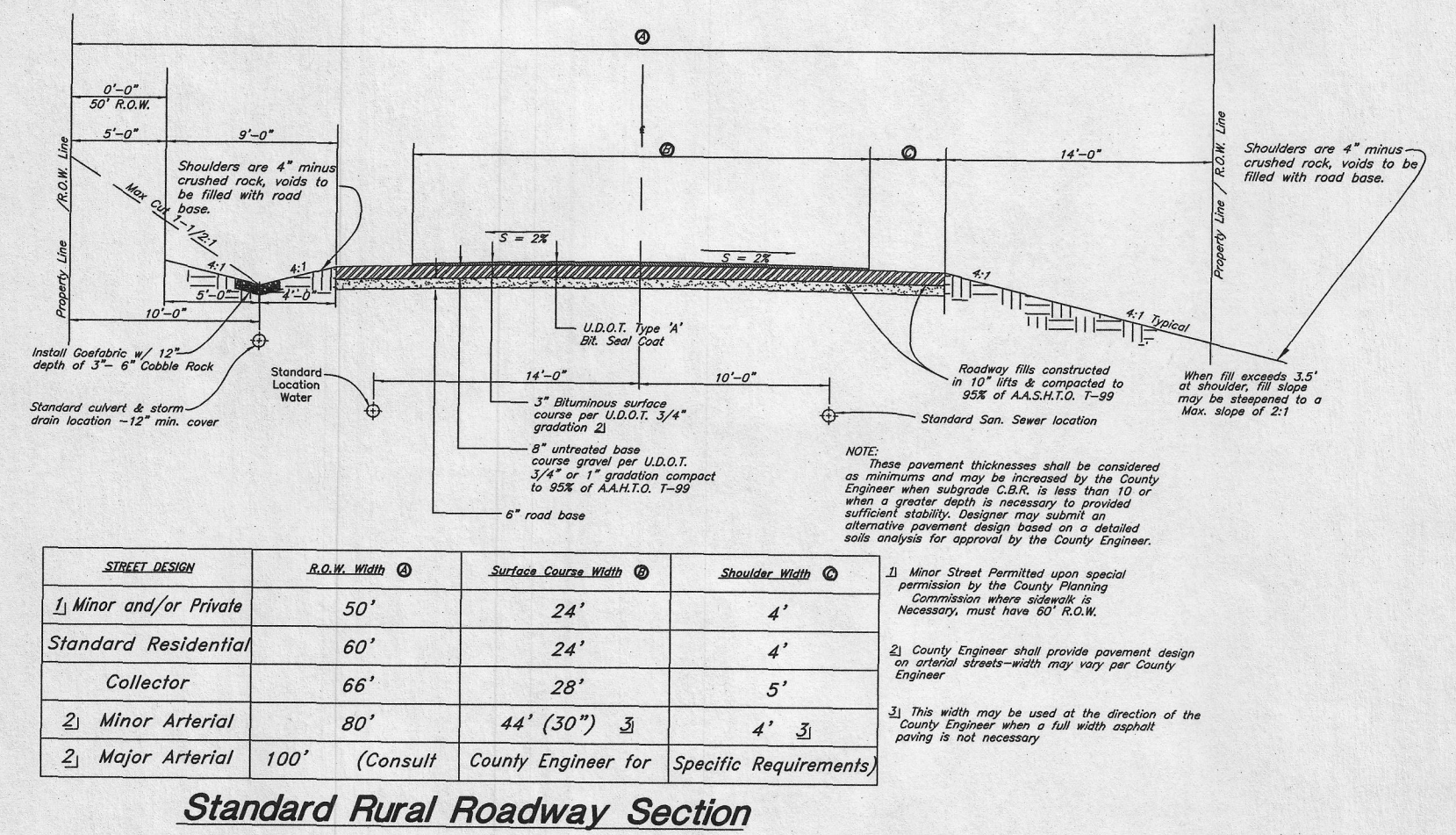
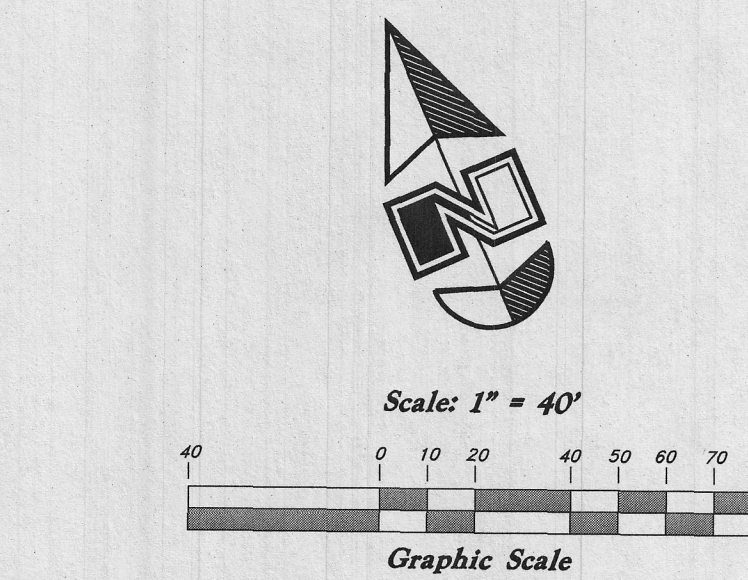
A part of the Southwest 1/4 of Section 13, a part of the Northeast 1/4 of Section 23, and a part of the Northwest 1/4 of Section 24, T6N, R1E, SLB&M, U.S. Survey

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





















SCALE: 1" = 40'
DRAWN: RB
11N224

DATE: 26 Jun, 2013
REVISIONS:

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Of 5



Legend

- | | |
|------------------------|---|
| Sanitary Sewer Manhole |  |
| Water Manhole |  |
| Storm Drain Manhole |  |
| Electric Manhole |  |
| Catch Basin |  |
| Proposed Fire Hydrant |  |
| Exist. Fire Hydrant |  |
| Proposed Water Valve |  |
| Sanitary Sewer Line |  |
| Culinary Sewer Line |  |
| Gas Line |  |
| Irrigation Line |  |
| Storm Drain Line |  |
| Telephone Line |  |
| Secondary Water Line |  |
| Underground Power Line |  |
| Land Drain Line |  |
| Fence |  |
| Flowline of Ditch |  |
| Polyvinyl Chloride | PVC |
| Top of Asphalt | TA |
| Edge of Asphalt | EA |
| Catfitterline | C |
| Flowline | FL |
| Top of Curb | TC |
| Bottom | RM |
| Finish Grade | 95.33TA |
| Exist. Grade | 95.72TA |
| Direction of Flow |  |
| Monument |  |
| Section Corner |  |
| Rebar & Cap |  |
| Existing Asphalt |  |
| Proposed Asphalt |  |
| Heavy Duty Asphalt |  |
| Concrete |  |
| Building or Structure |  |

General Utility Notes:

1. All work shall be in accordance with the County Public Works Standard.
2. Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
3. Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
4. Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer.
5. Areas to receive fill shall be properly prepared and approved by the City Inspector and the geotechnical engineer prior to placing fill.
6. Fills shall be berched into contour material as per specifications and geotechnical report.
7. All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code and the geotechnical engineer's test plan.
8. The geotechnical engineer shall prepare a test plan and map upon completion of the rough grading.
9. The geotechnical report and construction report from the geotechnical engineer shall contain the following:
 - a. Type of field testing performed. Each test shall be identified with the method of obtaining the test results, whether in-situ or cone or drive ring and shall be so noted for each test.
 - b. The geotechnical report shall be performed to verify the accuracy of the Sufficient maximum density determined by the field technique.
10. The location and protection of all utilities is the responsibility of the permittee. Adequate protective measures shall be taken and adequate provisions must be used to protect adjoining properties during the grading project.
11. The public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation.
12. The site shall be cleared and grubbed of all vegetation and deleterious material prior to grading.
13. The site shall be cleared and grubbed of all trees and stumps and other obstructions.
14. Aggregate base shall be compacted per the geotechnical report prepared for the project.
15. The project shall be constructed in this plan are fish grades. Rough grades are the subgrades of the improvements shown herein.
16. As part of the construction documents, owner has provided contractor with a geotechnical survey performed by a registered professional engineer. The survey is prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not be used for any other purpose.
17. Erosion Control: Protect all inlet boxes, catch basins, etc. and all other topographic conditions.
18. The contractor shall be responsible for the design, construction and/or other approved means to strain the storm water during construction. Protect surrounding properties and streets from all runoff with the project.

All piping to be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.

1. 3/4" to 2" diameter pipe — copper tube ASTM B, Type K, Soft Temper

1. Pipe material as shown on utility plan view or to meet city standards.

1. All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D 3034, Type PSM, SDR 35

- Storm Drain Lines**
- | | |
|-------------------------|---|
| 1. 10" pipes or smaller | - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35 |
| 2. 12" to 21" pipes | - Concrete Pipe, ASTM C14, Class III up to 13' of cover. For greater than 13' feet of cover, use reinforced concrete pipe and classes listed below. |
| 3. 24" pipes or larger | - Reinforced Concrete Pipe, ASTM C76, Class III up to 13' of cover, Class IV for 13' to 21' of cover, Class V for 21' to 32' of cover, and Special Design for cover greater than 32 feet. |

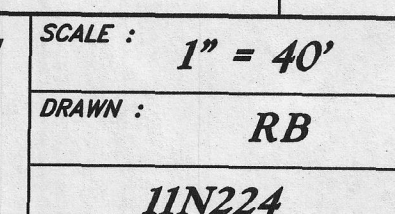
The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

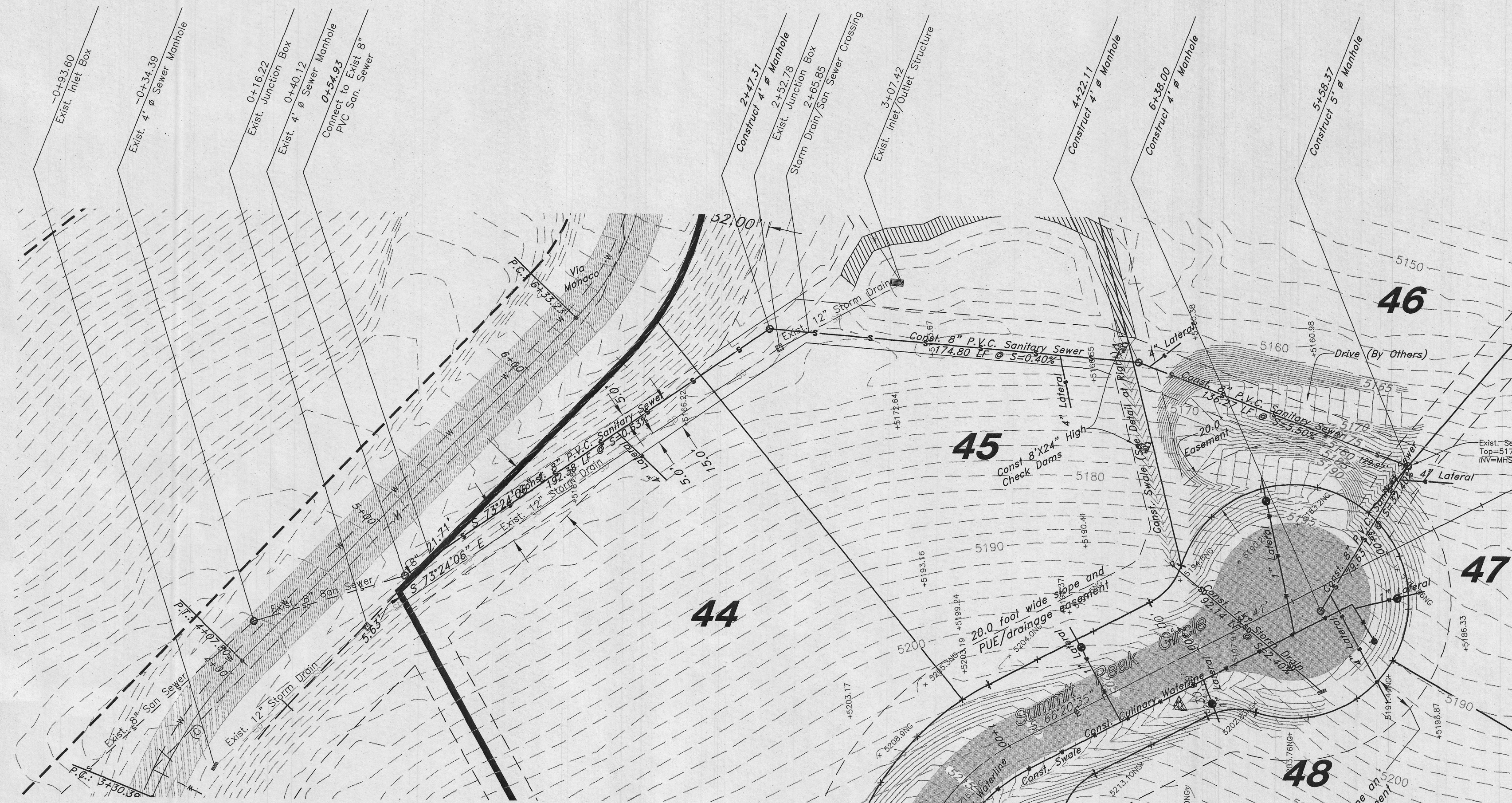
1. All Construction is to meet Weber County Public Works Standards.
2. Top of 8" waterline is to have a minimum of at least 60" of cover over the top of pipe. Waterline is also to have metallic locator tape installed 12-24" above pipe.
3. Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any discrepancies or conflicts prior to any connection being made.
4. Re-vegetate with native grasses and weeds to control erosion.

Plan and Profile

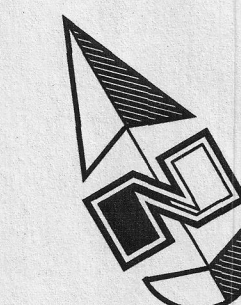
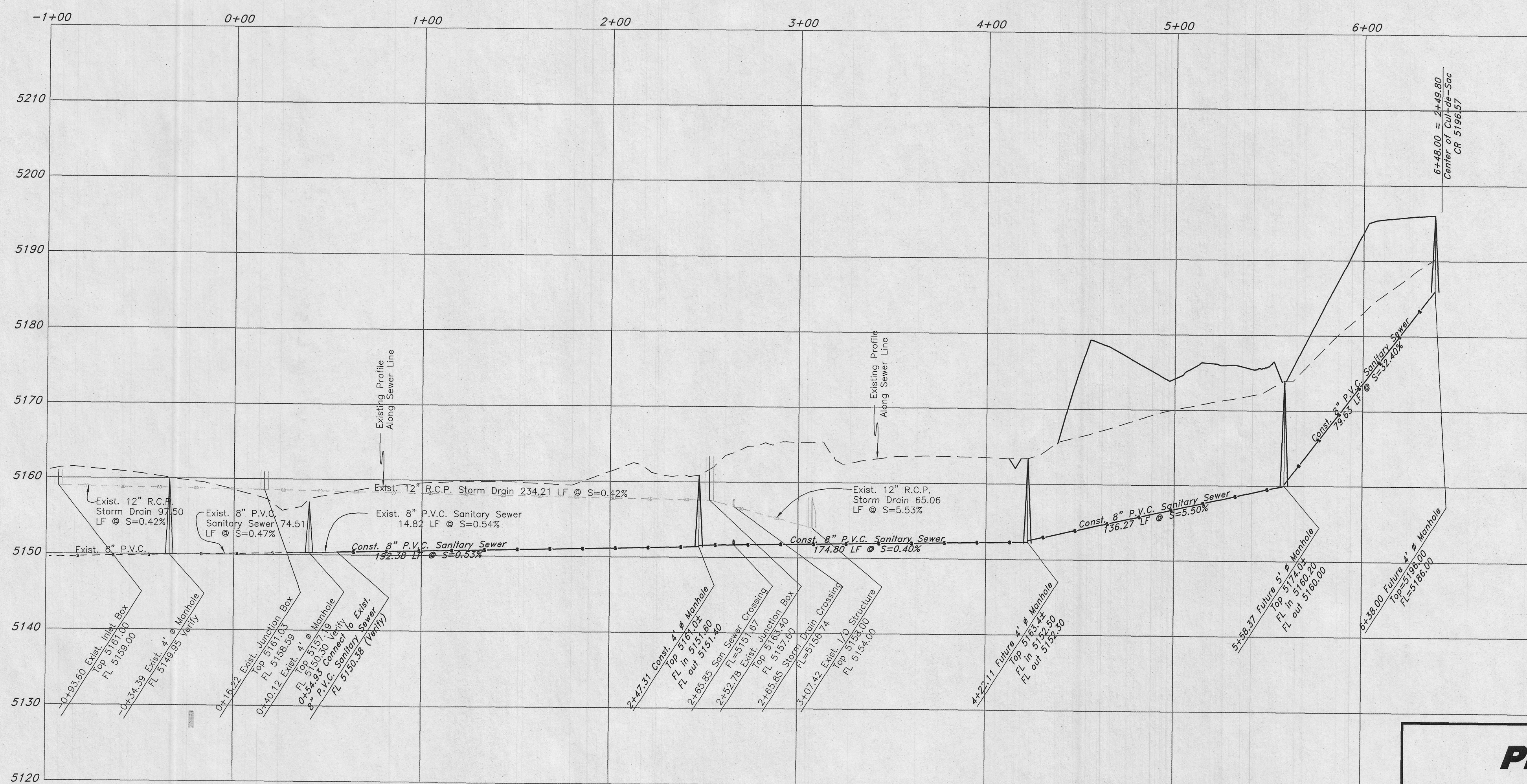
A part of the Southwest 1/4 of Section 13, a part of the Northeast 1/4 of Section 23, and a part of the Northwest 1/4 of Section 24, T6N, R1E, SLB&M, U.S. Survey



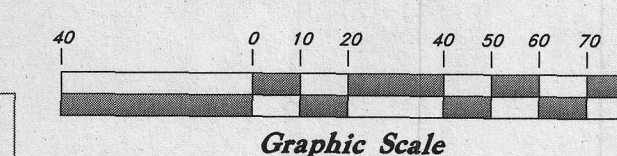
2
Of 5



East Sanitary Sewer Outfall



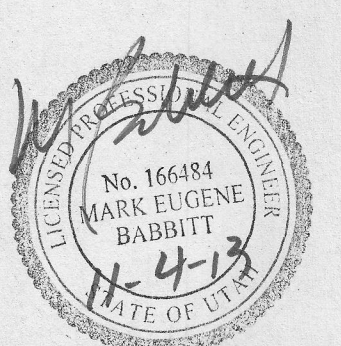
Scale: 1" = 40'



Legend

(Note: All items may not appear on drawing)

Sanitary Sewer Manhole	⊙
Water Manhole	⊙
Storm Drain Manhole	⊙
Electric Manhole	⊙
Catch Basin	⊙
Proposed Fire Hydrant	⊙
Exist. Fire Hydrant	⊙
Proposed Water Valve	⊙
Exist. Water Valve	⊙
Sanitary Sewer Line	—
Culinary Water Line	—
Gas Line	—
Irrigation Line	—
Storm Drain Line	—
Telephone Line	—
Secondary Water Line	—
Underground Power Line	—
Land Drain Line	—
Fence	—
Flowline of Ditch	—
Polyvinyl Chloride	PVC
Top of Asphalt	TA
Edge of Asphalt	EA
Centerline	CL
Flowline	FL
Top of Curb	TC
Rim	RM
Finish Grade	95.33TA
Exist. Grade	95.72TA
Direction of Flow	→
Monument	⊙
Section Corner	⊙
Rebar & Cap	⊙
Existing Asphalt	⊙
Proposed Asphalt	⊙
Heavy Duty Asphalt	⊙
Concrete	⊙
Building or Structure	⊙



Plan and Profile

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DRAWN: RB
11N224

The Summit at Ski Lake Phase 12

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, S18&M, U.S. Survey

DATE: 26 Jun, 2013
REVISIONS:

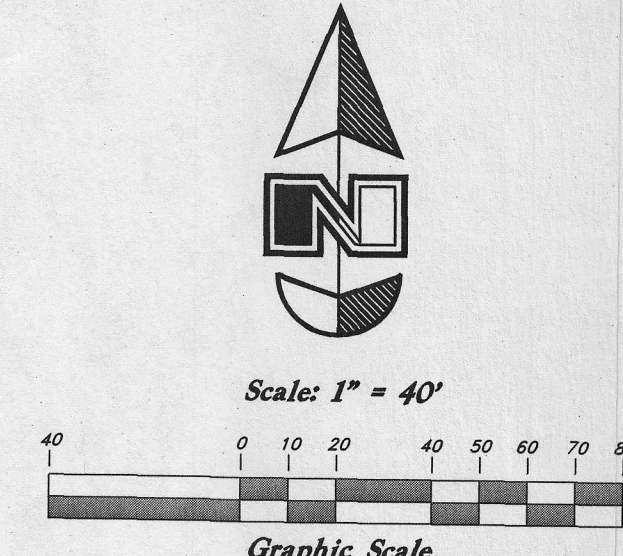
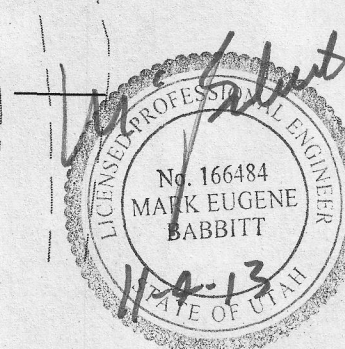
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of 5

Legend

(Note: All items may not appear on drawing)

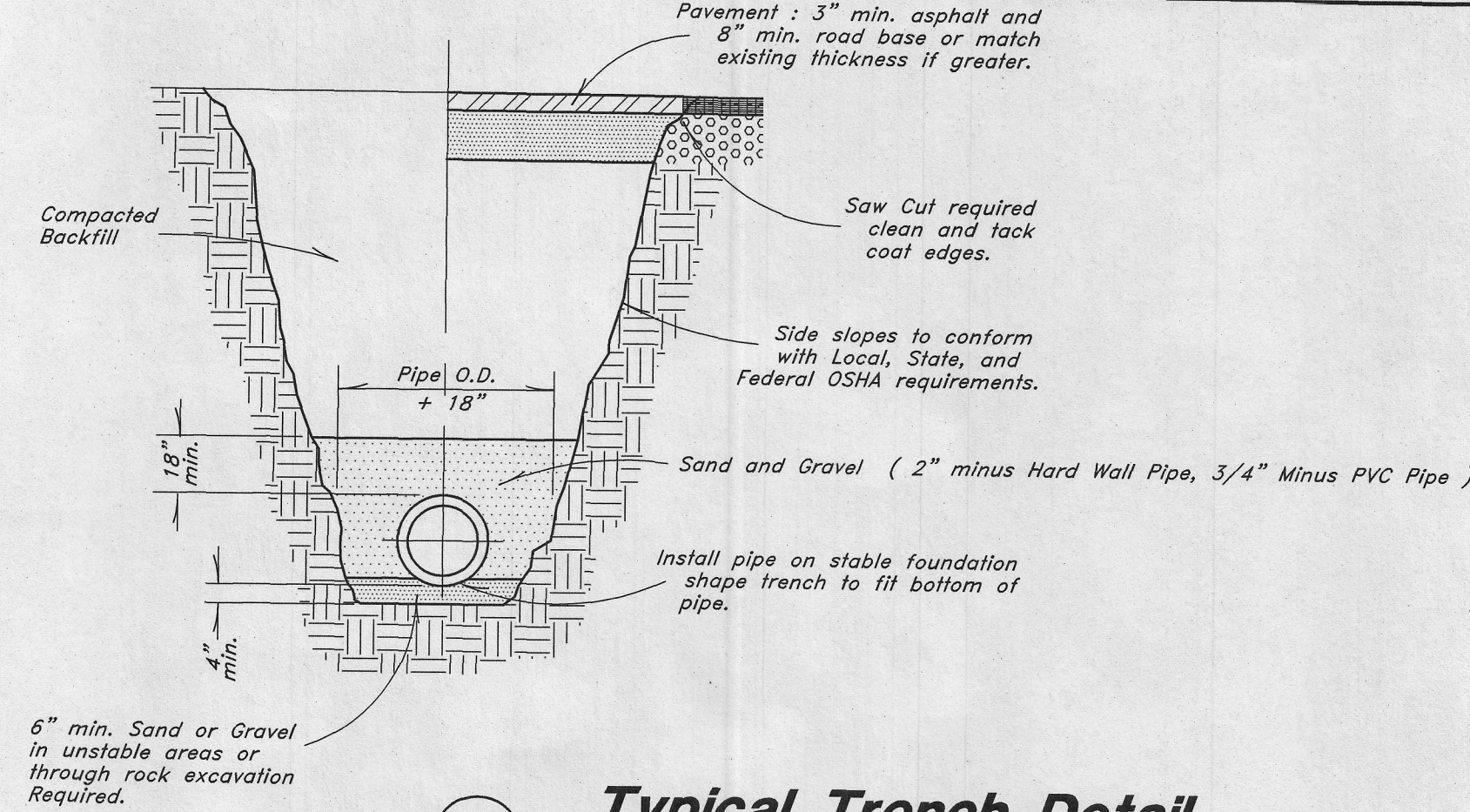
- Sanitary Sewer Manhole
- Water Manhole
- Storm Drain Manhole
- Electric Manhole
- Catch Basin
- Proposed Fire Hydrant
- Exist. Fire Hydrant
- Exist. Water Valve
- Proposed Water Valve
- Sanitary Sewer Line
- Culinary Water Line
- Gas Line
- Irrigation Line
- Storm Drain Line
- Telephone Line
- Secondary Water Line
- Underground Power Line
- Land Drain Line
- Flowline of Ditch
- Polyvinyl Chloride
- Top of Asphalt
- Edge of Asphalt
- Centerline
- Flowline
- Top of Curb
- Rim
- Finish Grade
- Exist. Grade
- Direction of Flow
- Monument
- Section Corner
- Rebar & Cap
- Existing Asphalt
- Proposed Asphalt
- Heavy Duty Asphalt
- Concrete
- Building or Structure



Slope Study

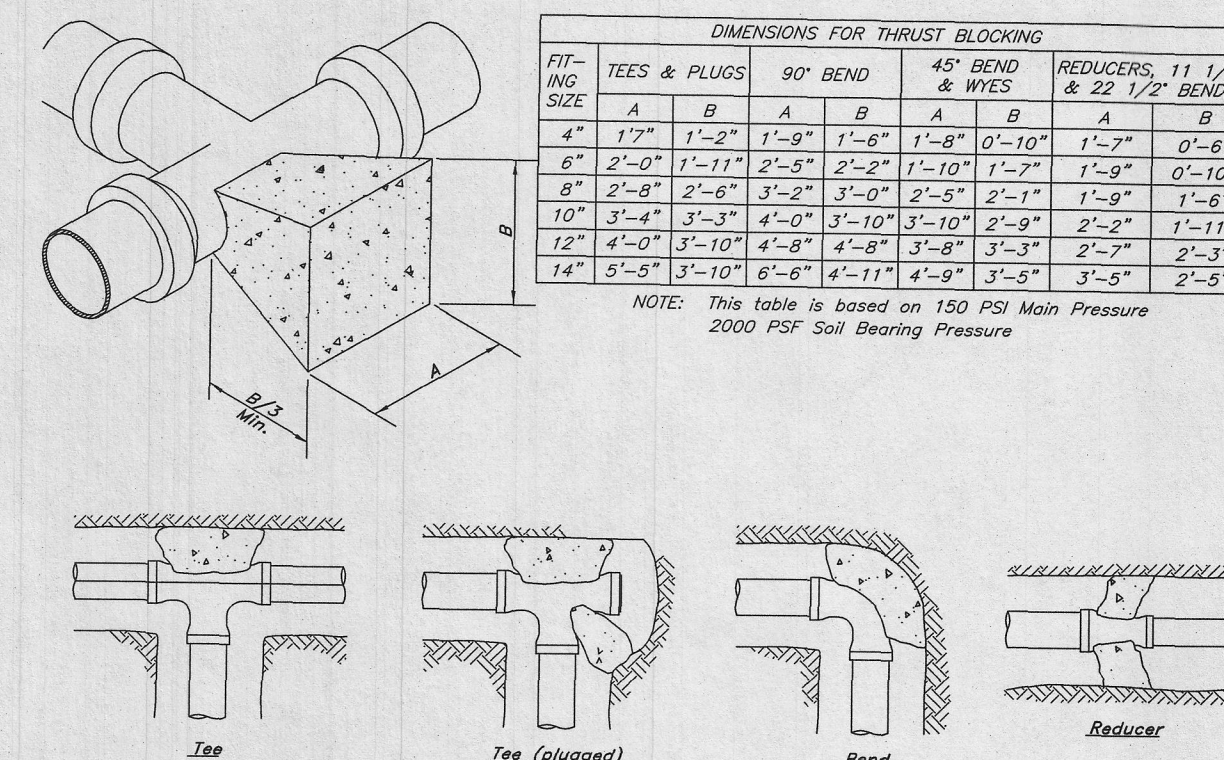
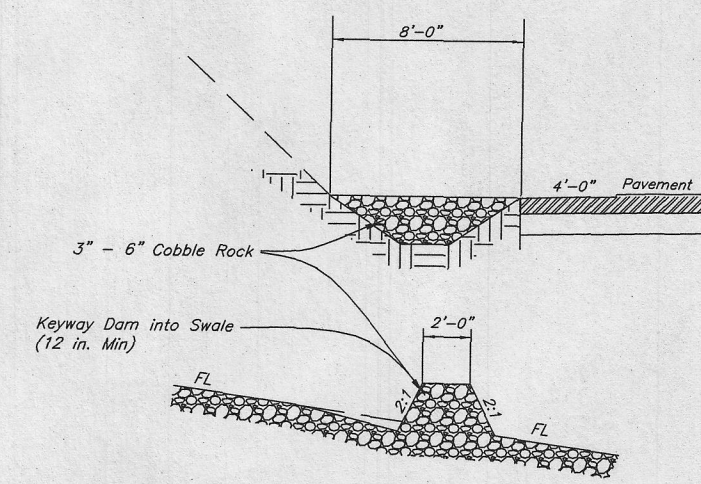
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GREAT BASIN ENGINEERING NORTH <small>CONSULTING ENGINEERS AND SURVEYORS</small> 5746 South 1475 East - Suite 200 Ogden, Utah 84403 P.O. Box 150048, Ogden, Utah 84415 <small>Ogden (801)584-4515 Salt Lake City (801)521-0222 Fax (801)582-7544</small>	SCALE: 1" = 40'	DATE: 26 Jun, 2013	DRWG. NO. 4 Of 5
	DRAWN: RB	REVISIONS:	
	IIN224		



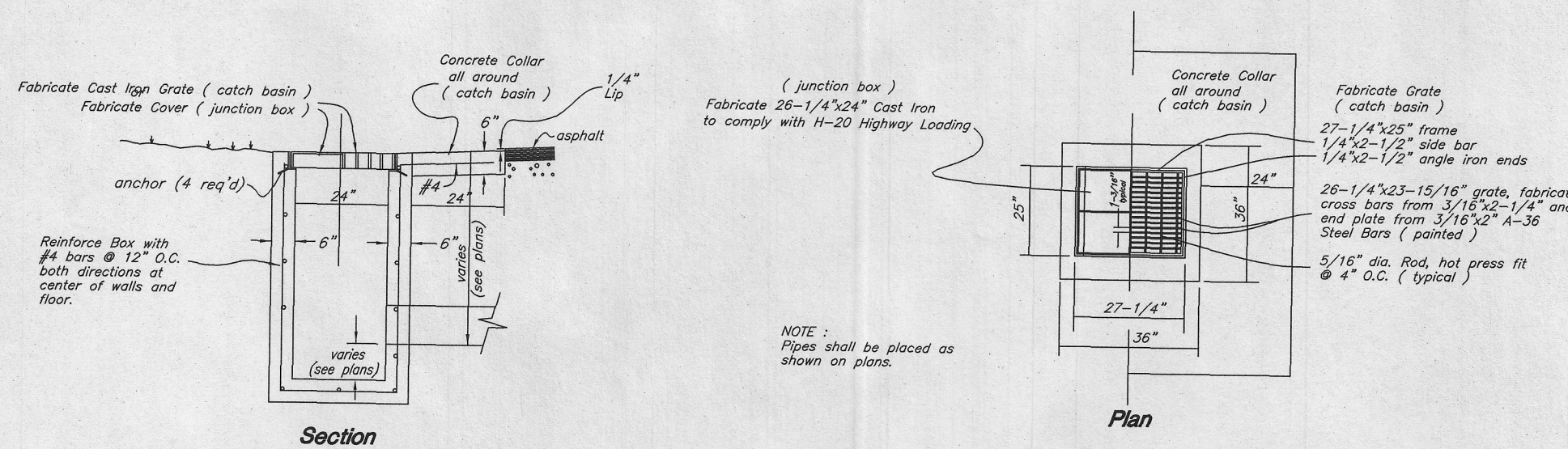
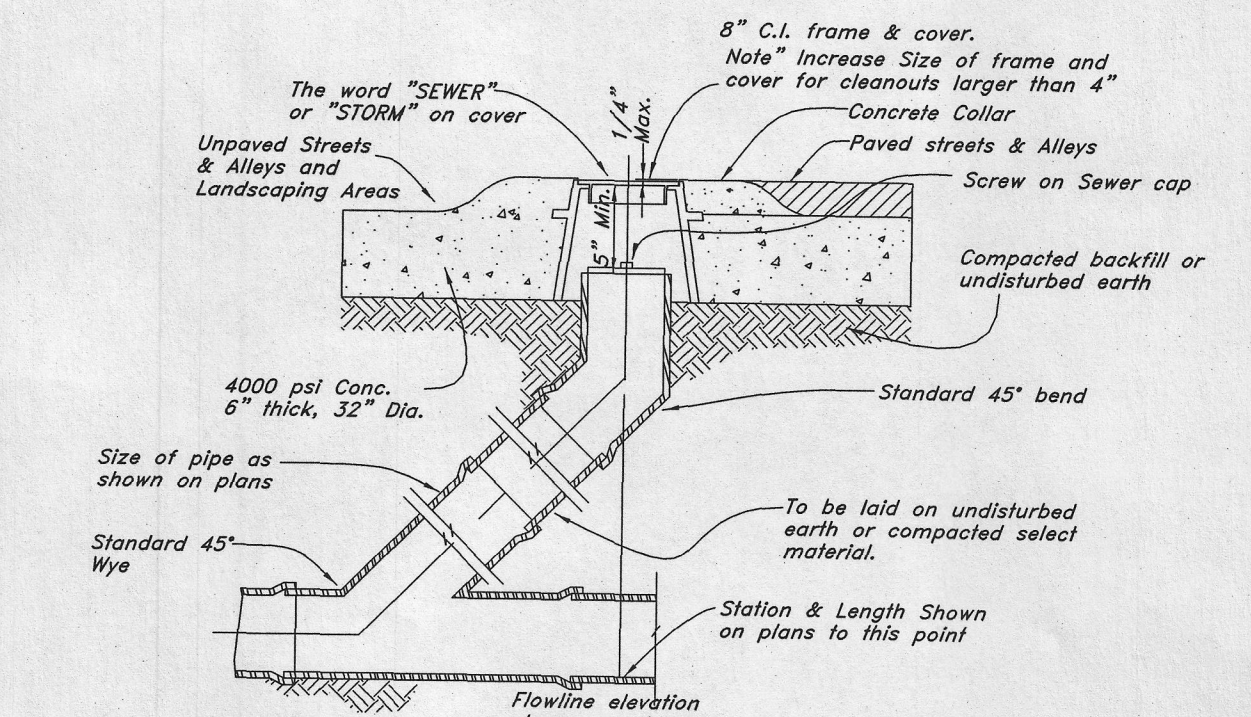
1 Typical Trench Detail
Not to Scale

2 Check Dam
Not to Scale



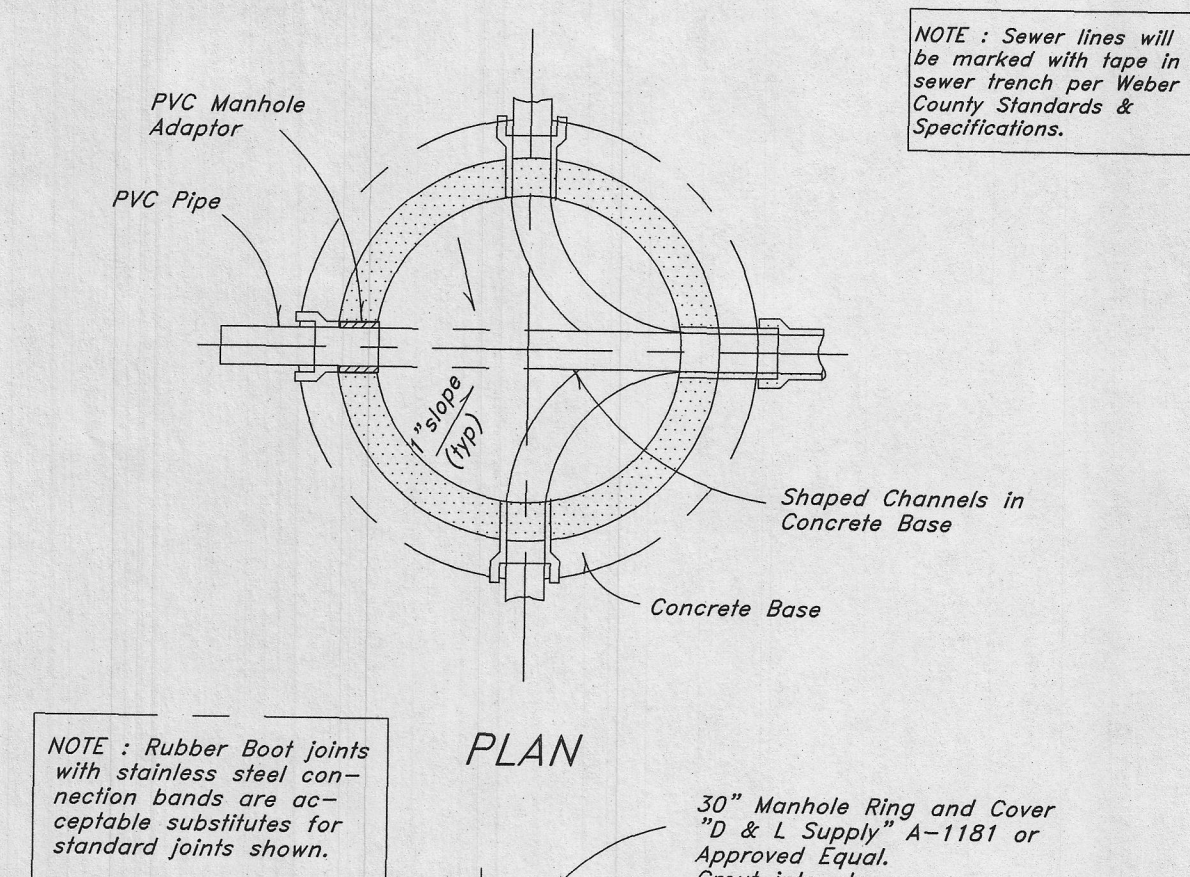
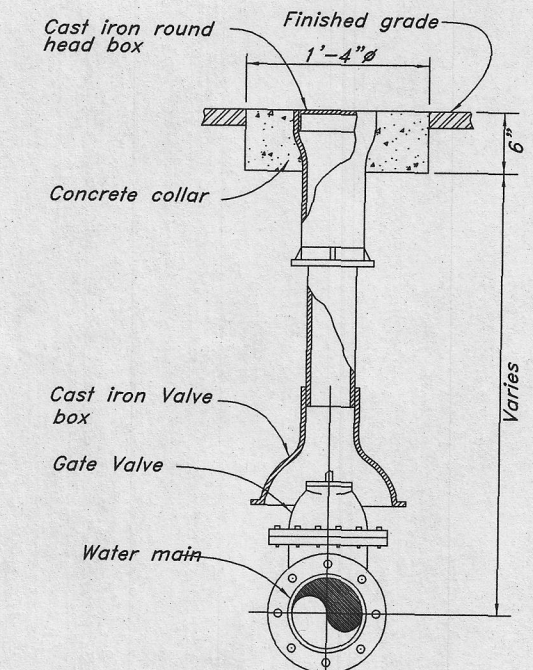
3 Thrust Blocking Details
Not to Scale

4 Sewer, Storm, and Roof Drain Cleanout Detail
Not to Scale

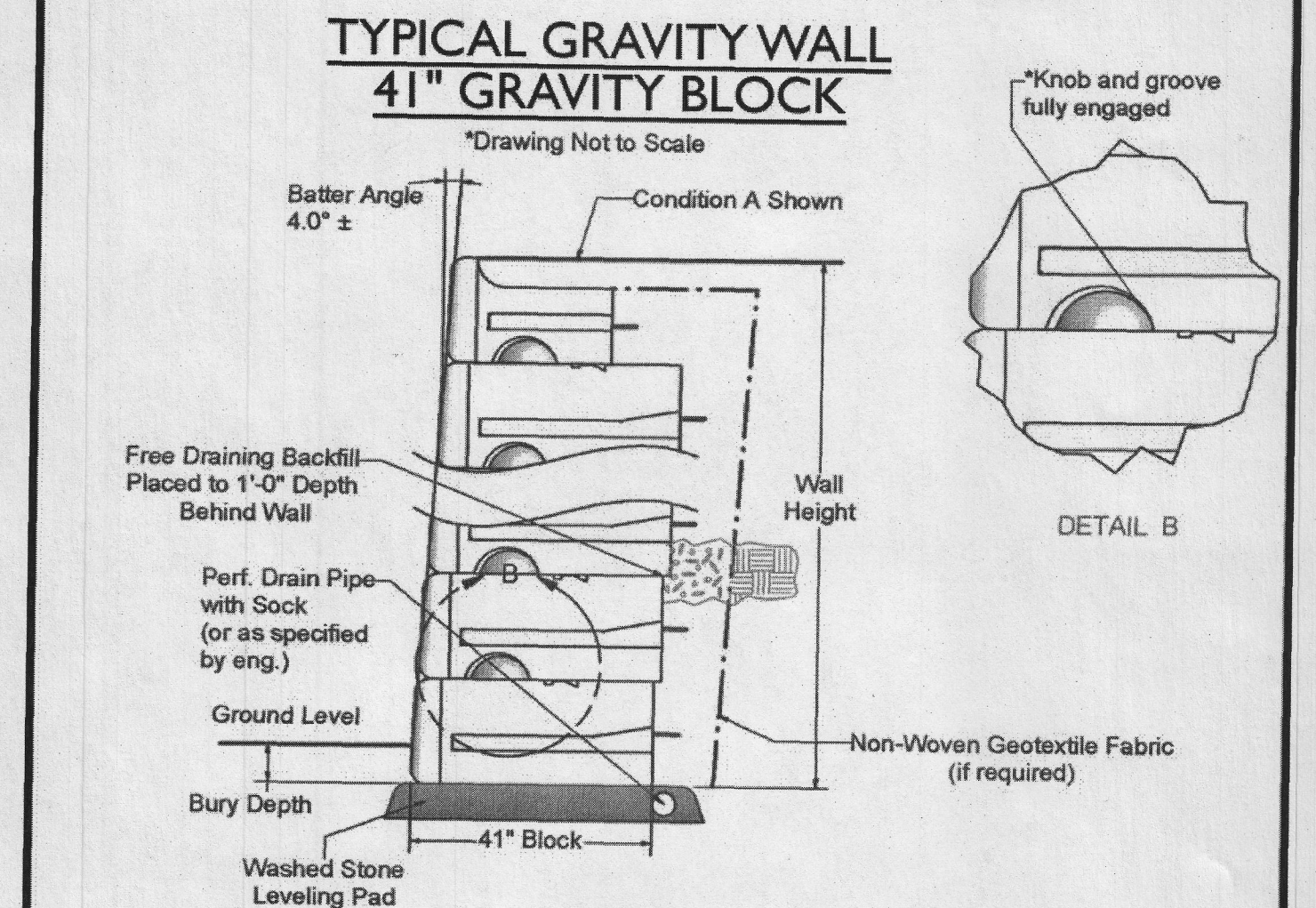


5 Typical Inlet Box
Not to Scale

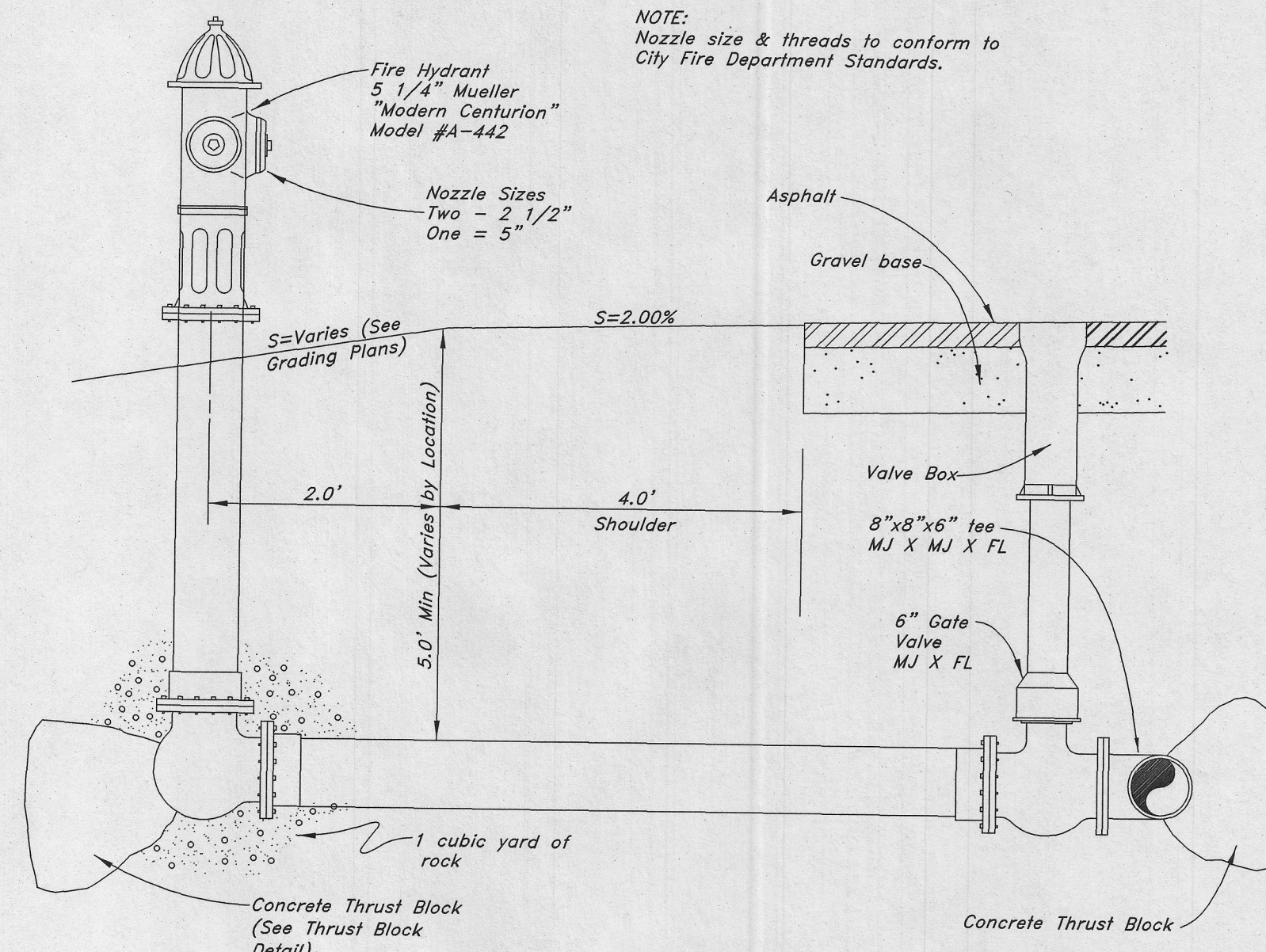
6 Typical Gate Valve
Not to Scale



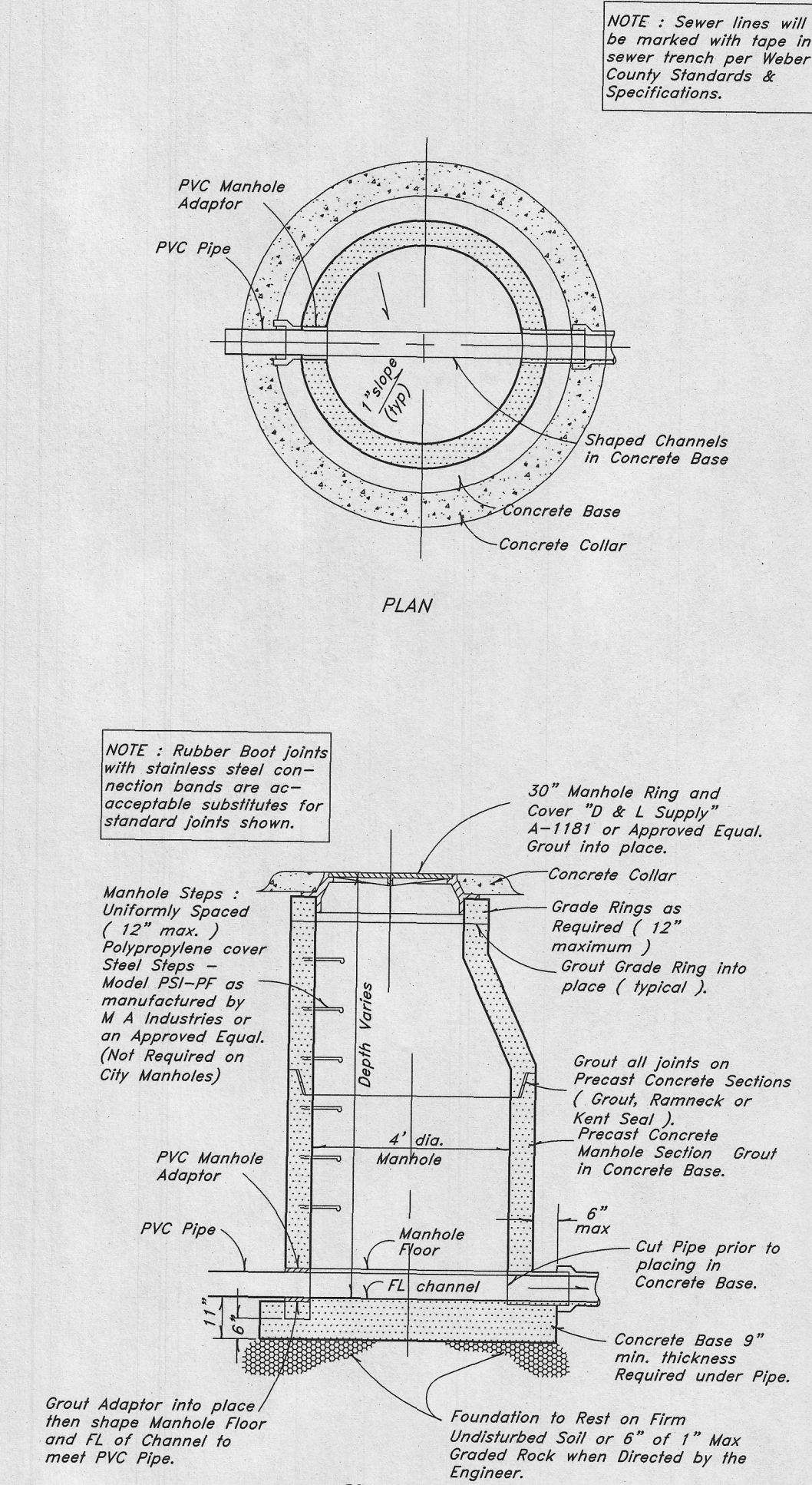
9 Typical 5.0' Manhole Detail
Not to Scale



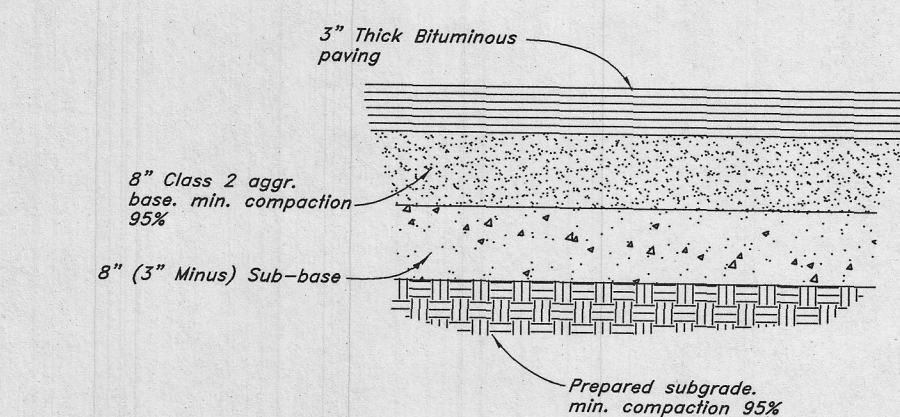
11 Gravity Block Retaining Wall Detail
Not to Scale



7 Typical Fire Hydrant & Valve Connection
Not to Scale



8 Typical 4.0' Manhole Detail
Not to Scale



10 Typical Pavement Section
Not to Scale

Details

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Of 5