

Project Narrative/Notes/Revisions

- 1) 6/19/14 RH - COMPLETED DESIGN FOR CLIENT & COUNTY REVIEW.
- 2) 9/3/14 RH - REVISED DESIGN FOR CLIENT CHANGES.
- 3) 1/12/15 RH - REVISED DESIGN PER COUNTY COMMENTS.
- 4) 1/20/15 RH - REVISED DESIGN PER COUNTY COMMENTS.
- 5) 2/11/15 RH - REVISED DESIGN PER CLIENT CHANGES.
- 6) 3/17/15 TP - REVISED DESIGN PER COUNTY COMMENTS
- 7) 3/27/15 TP - REVISED DESIGN PER COUNTY COMMENTS
- 8) 6/25/15 RH - REVISED DESIGN PER COUNTY COMMENTS
- 9) 7/7/15 ST - REVISED DESIGN PER COUNTY COMMENTS

BLUE ACRES SUBDIVISION

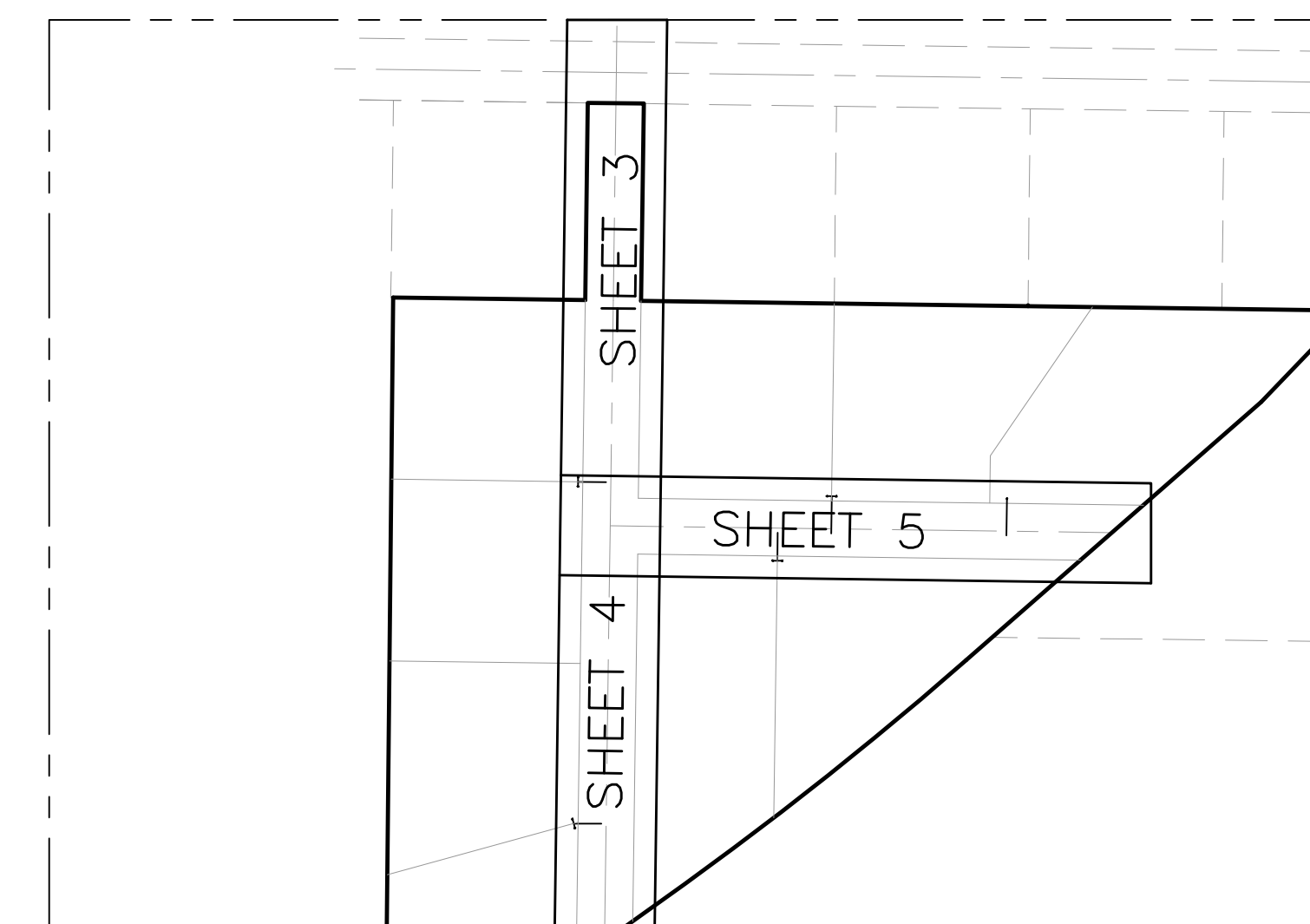
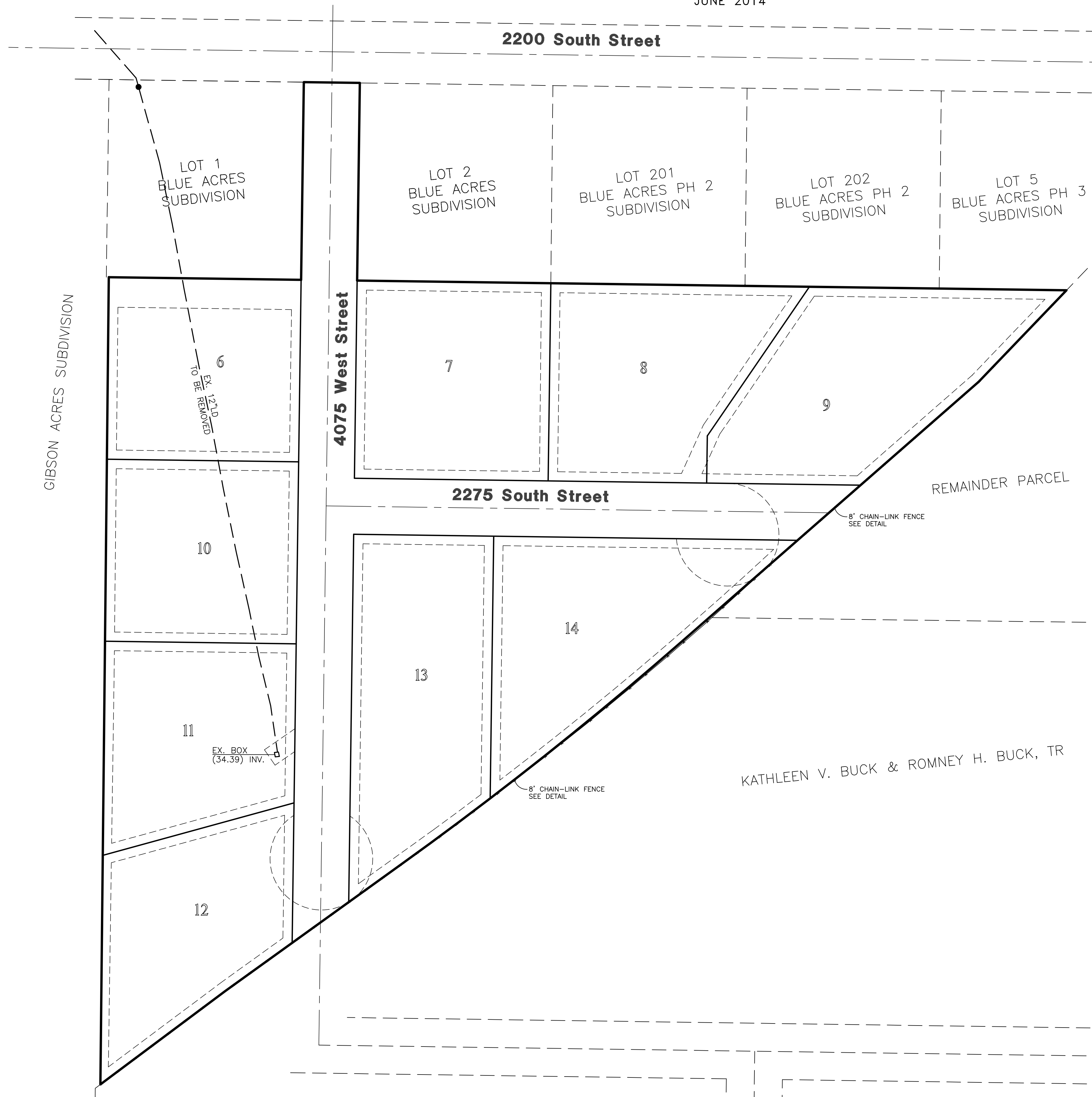
Phase-4

Improvement Plans

WEBER COUNTY, UTAH
JUNE 2014



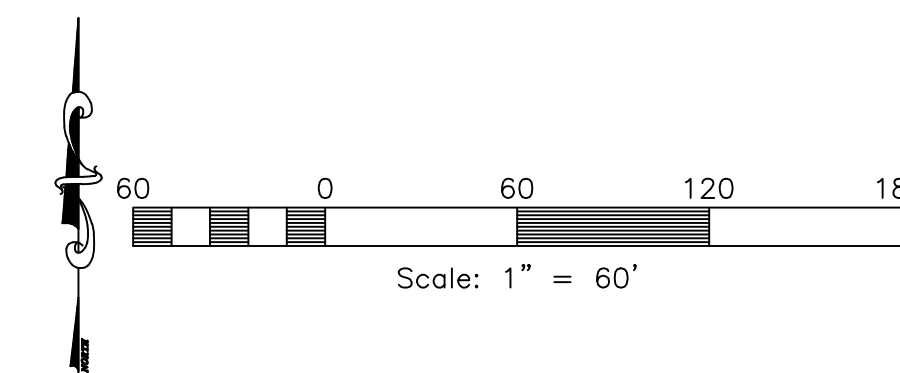
Vicinity Map
NOT TO SCALE



Sheet Index Key Map
NOT TO SCALE

Sheet Index

- Sheet 1 - Cover/Index Sheet**
- Sheet 2 - Notes/Legend/Street Cross-Section**
- Sheet 3 - 4075 West St. 19+00.00 - 23+50.00**
- Sheet 4 - 4075 West St. 14+00.00 - 19+00.00**
- Sheet 5 - 2275 South St. 10+00.00 - 16+00.00**
- Sheet 6 - Detention Basin**
- Sheet 7 - Storm Water Pollution Prevention Plan Exhibit**
- Sheet 8 - Storm Water Pollution Prevention Plan Details**



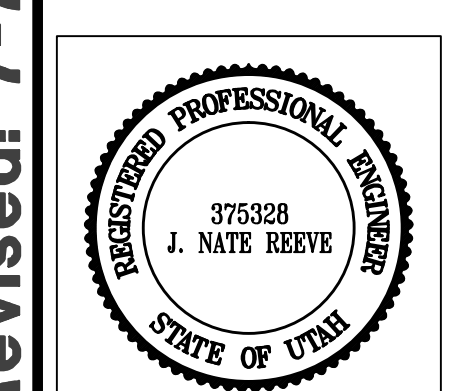
Reeve & Associates, Inc.
920 CHAMBERS STREET, SUITE 14, OGDEN, UTAH 84403
TEL: (801) 540-7335 FAX: (801) 621-8666 WWW.REEVE-ASSOC.COM

LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

DATE	DESCRIPTION
9-3-14	RH Client Changes
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Blue Acres Subdivision Phase-4
WEBER COUNTY, UTAH

Cover/Index Sheet



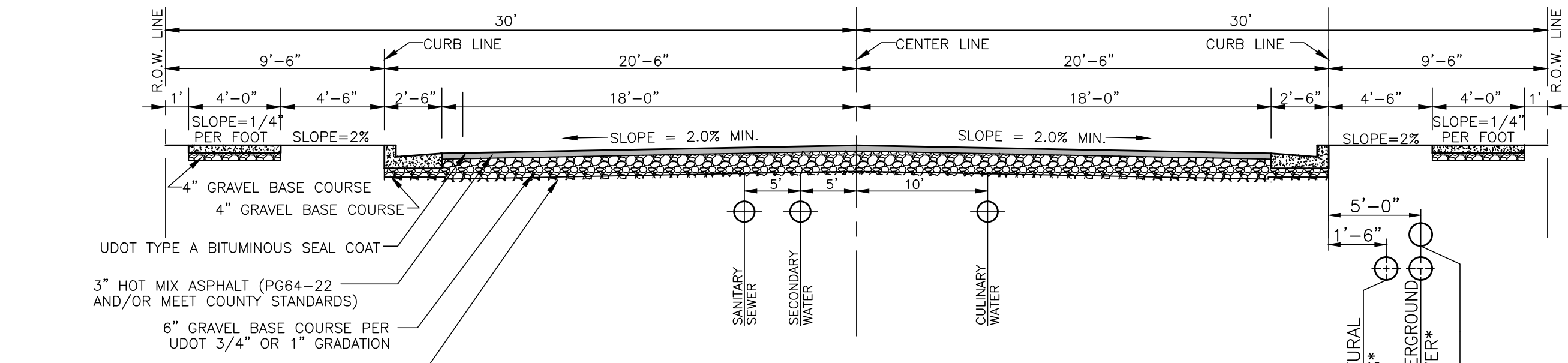
Project Info.

Engineer:	J. NATE REEVE, P.E.
Drafter:	R. HANSEN
Begin Date:	JUNE 10, 2014
Name:	BLUE ACRES SUBDIVISION PHASE-4
Number:	5036-01

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General Notes

- 1. ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY GOVERNING UTILITY MUNICIPALITY, GOVERNING CITY OR COUNTY (IF UNINCORPORATED), INDIVIDUAL PRODUCT MANUFACTURERS, AMERICAN PUBLIC WORKS ASSOCIATION (APWA), AND THE DESIGN ENGINEER...



Street Section (60' R.O.W.)

*VERIFY LOCATION WITH PHONE, GAS AND POWER COMPANIES.

Utility Notes

- 1. CONTRACTOR SHALL COORDINATE LOCATION OF NEW "DRY UTILITIES" WITH THE APPROPRIATE UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO: TELEPHONE SERVICE, GAS SERVICE, CABLE, POWER, INTERNET...

Erosion Control General Notes

THE CONTRACTOR TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO GOVERNING AGENCIES ORDINANCES AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE COUNTIES...

CONTRACTOR SHALL KEEP THE SITE WATERED TO CONTROL DUST. CONTRACTOR TO LOCATE A NEARBY HYDRANT FOR USE AND TO INSTALL TEMPORARY METER. CONSTRUCTION WATER COST TO BE INCLUDED IN BID.

WHEN GRADING OPERATIONS ARE COMPLETED AND THE DISTURBED GROUND IS LEFT "OPEN" FOR 14 DAYS OR MORE, THE AREA SHALL BE FURROWED PARALLEL TO THE CONTOURS.

Maintenance

ALL BEST MANAGEMENT PRACTICES (BMP'S) SHOWN ON THIS PLAN MUST BE MAINTAINED AT ALL TIMES UNTIL PROJECT CLOSE-OUT.

ANY EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS:

Master Legend

Legend listing various symbols and line styles for utilities like Proposed Culinary Water Line, Existing Catch Basin, and Linear Feet, along with their corresponding graphical representations.

General Project Notes

- 1. ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE DEVELOPMENT STANDARDS OF WEBER COUNTY AND THE STANDARD DRAWINGS CONTAINED THEREIN...

SECONDARY WATER NOTES

- 1. ALL SECONDARY WATER SHALL BE IN CONFORMANCE WITH HOOPER IRRIGATION WATER STANDARDS.

Reeve & Associates, Inc. logo and revision table listing dates and descriptions of changes made to the drawings.

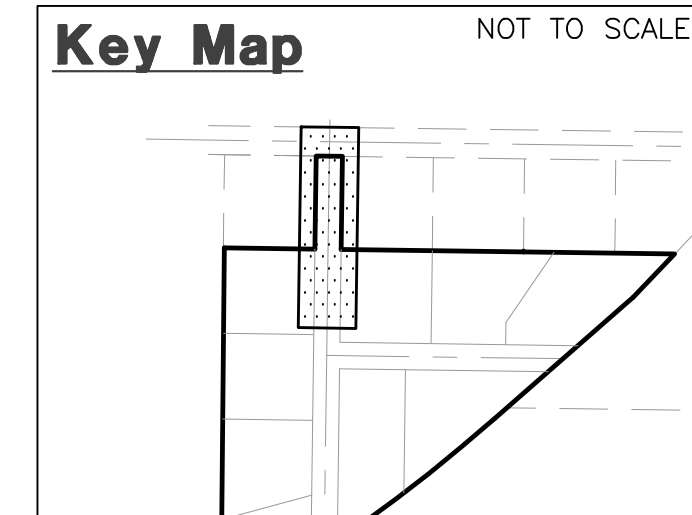
Blue Acres Subdivision Phase-4 Notes/Legend/ Street Cross-Section

Technical drawing showing typical multiple bay segment and gate hinge details with various tables for dimensions, materials, and specifications.

Administrative section containing the Utah Department of Transportation logo, project title block, and signature lines for approval.

Professional Engineer seal for J. Nate Reeve, State of Utah, No. 375328.

Project Info form including fields for Engineer, Drafter, Begin Date, Name, Subdivision, and Number.



Construction Notes:

1) ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY.

CULINARY WATER
W/10 - 10" PVC C-900 CLASS 200 WATER

STORM DRAIN
SD/15 - 15" RCP STORM DRAIN
SD/15 ARCH - 15" ARCH RCP STORM DRAIN

SANITARY SEWER
SS/8 - 8" PVC C-900 SEWER LINE
SS/12 - 12" PVC C-900 SEWER LINE

SECONDARY WATER
SW/8 - 8" PVC C-900 SECONDARY WATER LINE

LAND DRAIN
LD/8 - 8" PEFORATED PVC C-900 LAND DRAIN WRAPPED IN FABRIC

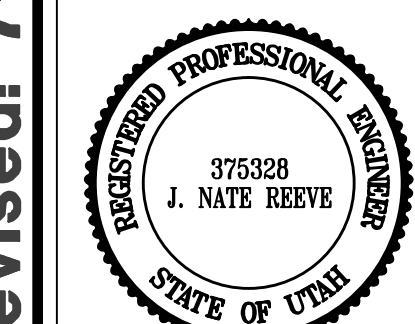
Reeve & Associates, Inc.
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Revised: 7-7-15

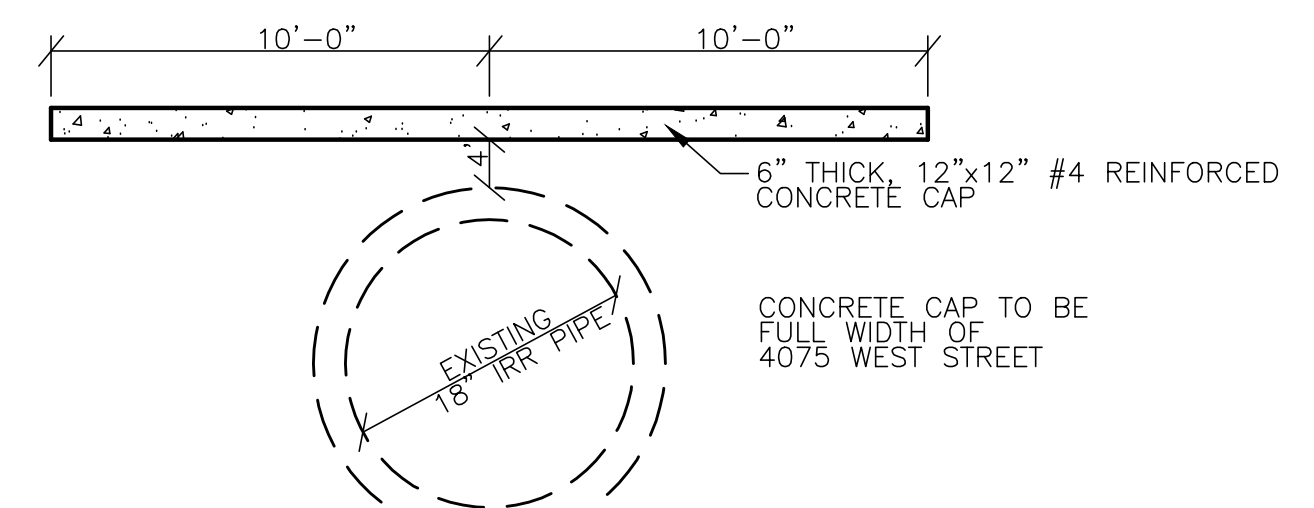
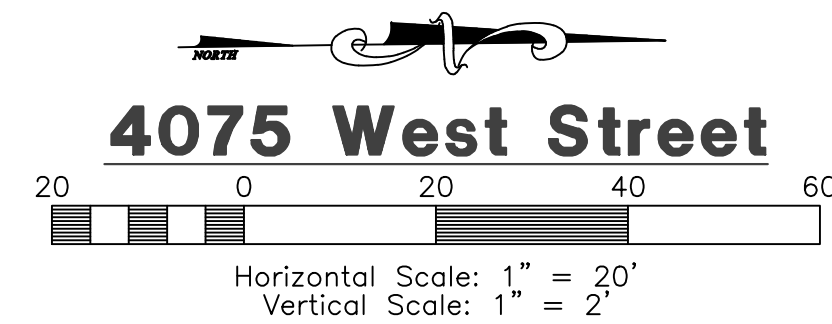
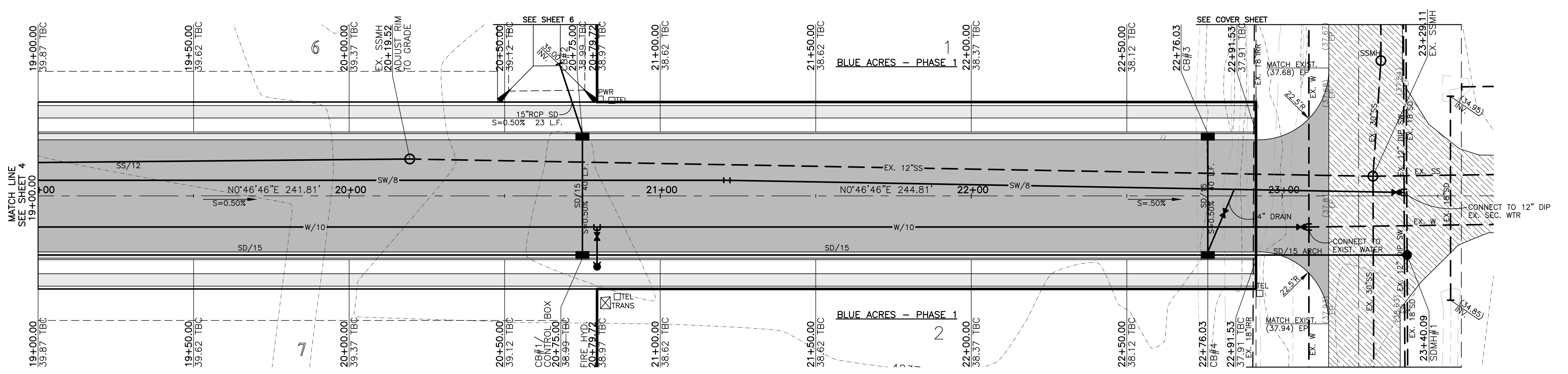
Blue Acres Subdivision Phase-4
WEBER COUNTY, UTAH

4075 West Street
19+00.00 - 23+50.00

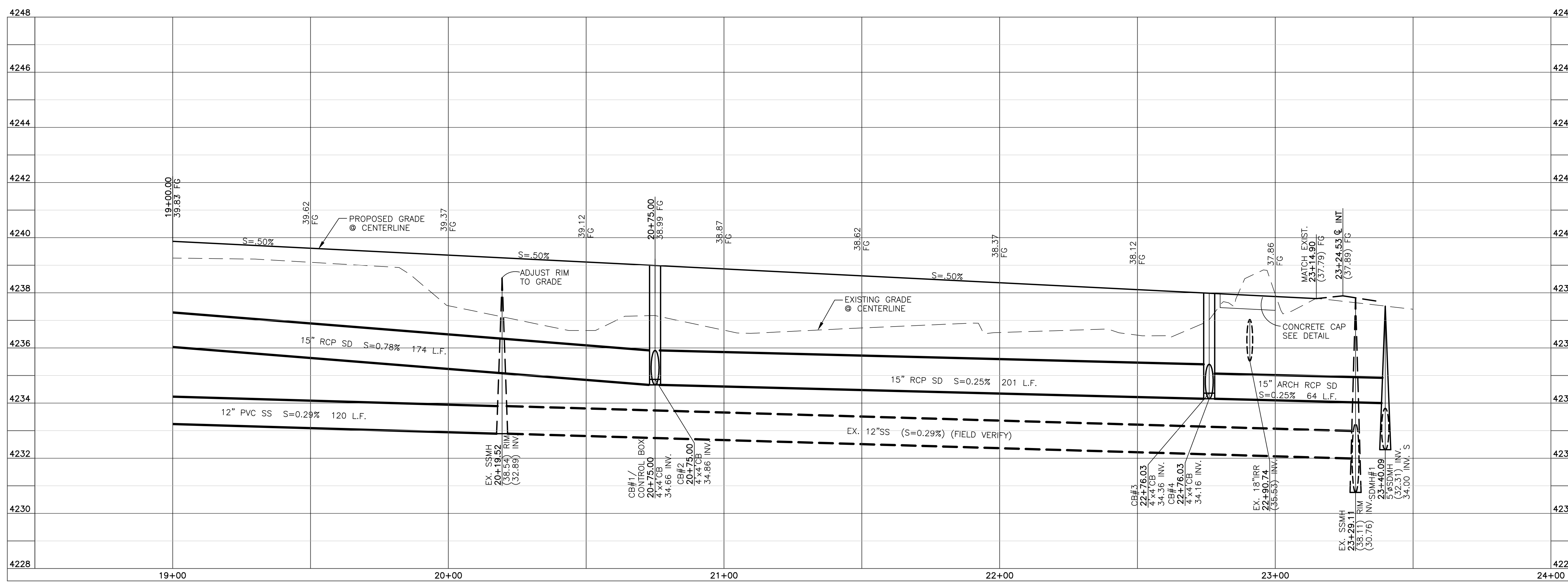


Project Info.
Engineer: J. NATE REEVE, P.E.
Drafted: R. HANSEN
Begin Date: JUNE 10, 2014
Name: BLUE ACRES SUBDIVISION PHASE-4
Number: 5036-01

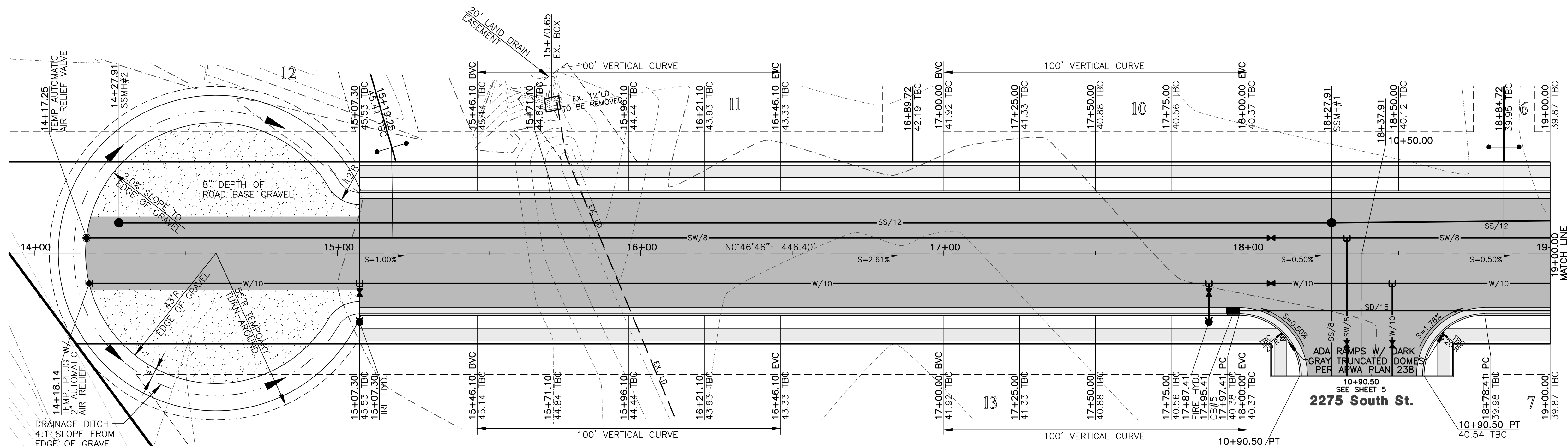
Sheet **3** of **8** Sheets



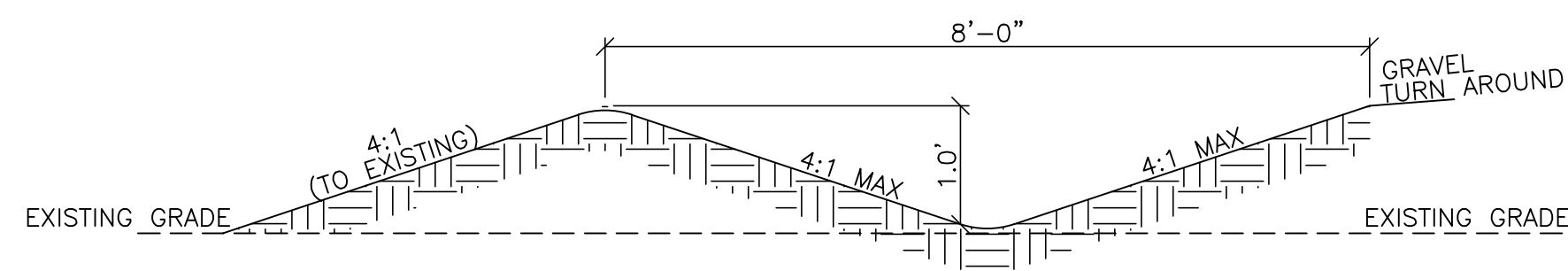
Irrigation Crossing Detail
SCALE: 1"=2'



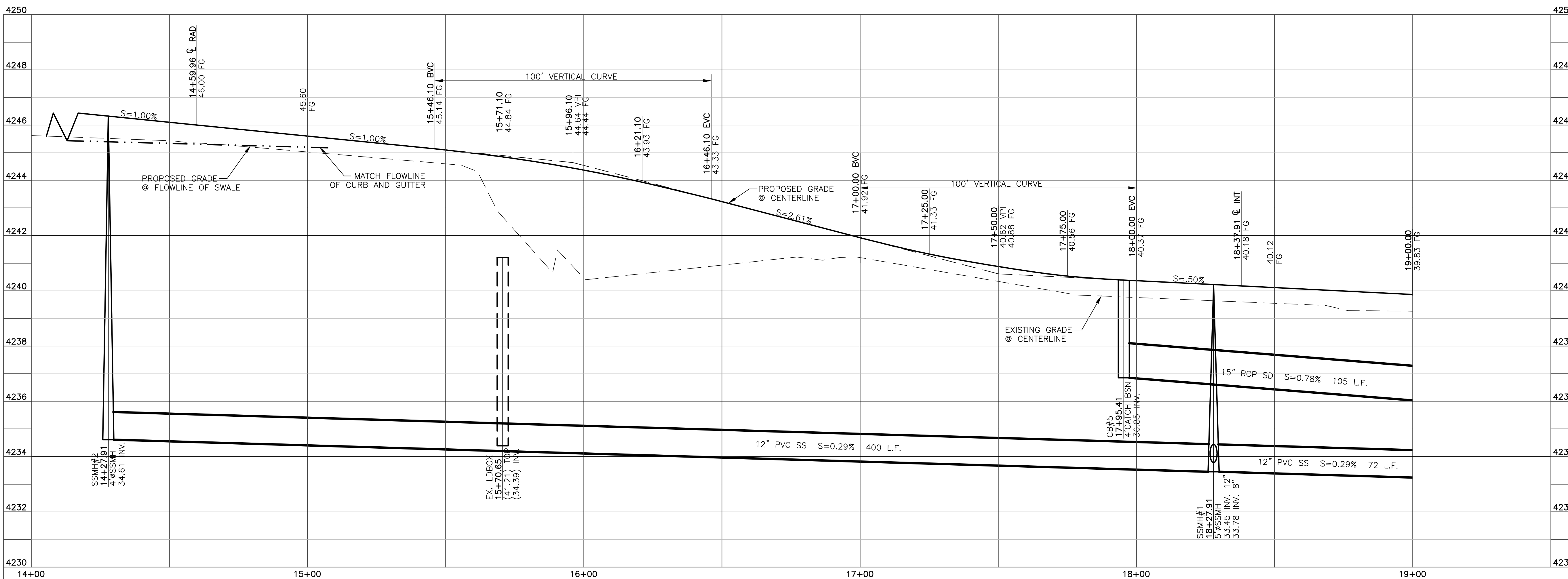
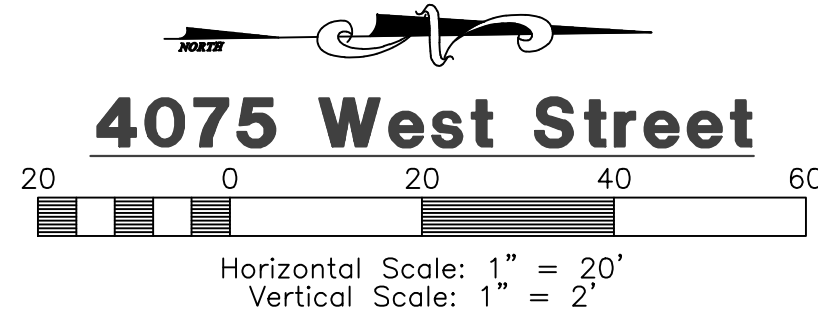
Blue Stakes Location Center
Call: Toll Free 1-800-662-4111
Two Working Days Before You Dig



TEMPORARY TURNAROUND TO BE CONSTRUCTED PER WEBER COUNTY PUBLIC WORKS STANDARDS AND SPECIFICATIONS.



Drainage Ditch
SCALE: NONE



Blue Stakes Location Center
Call: Toll Free
1-800-662-4111
Two Working Days Before You Dig

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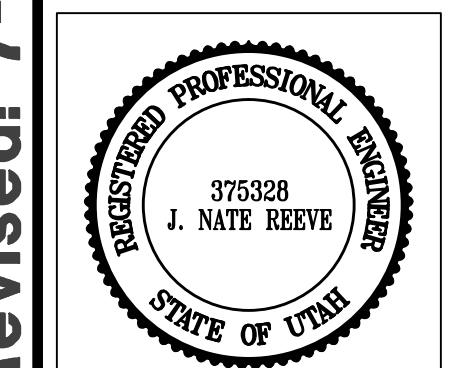
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Blue Acres Subdivision
Phase-4
WEBER COUNTY, UTAH

4075 West Street
14+00.00 - 19+00.00



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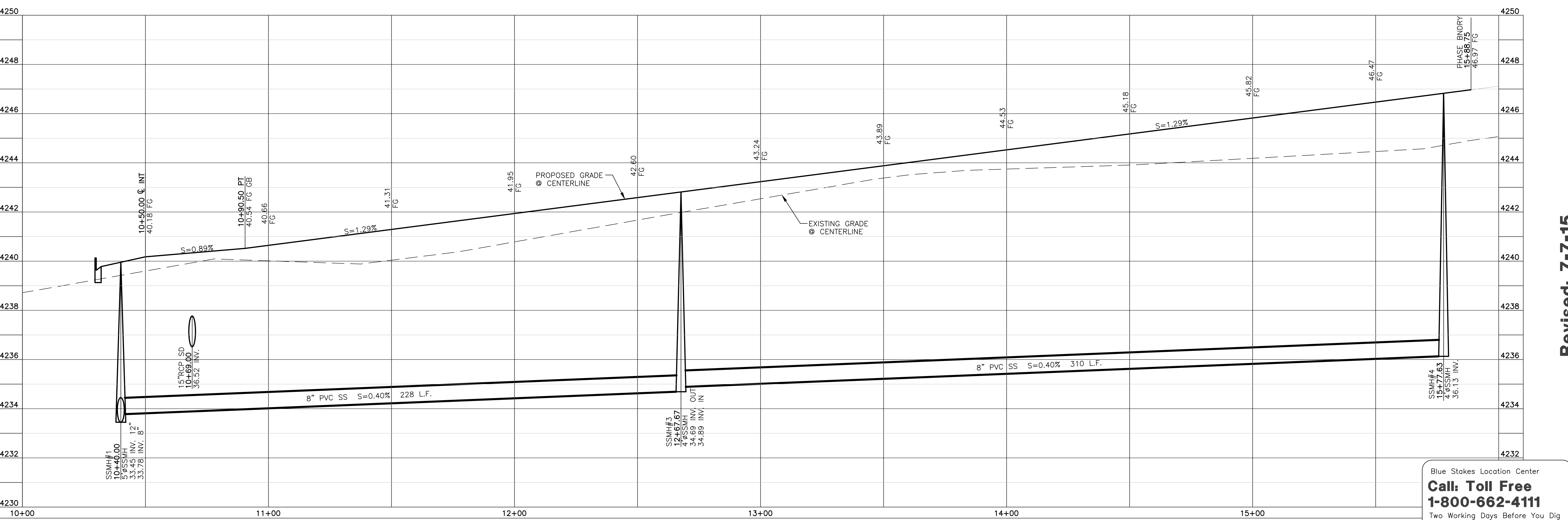
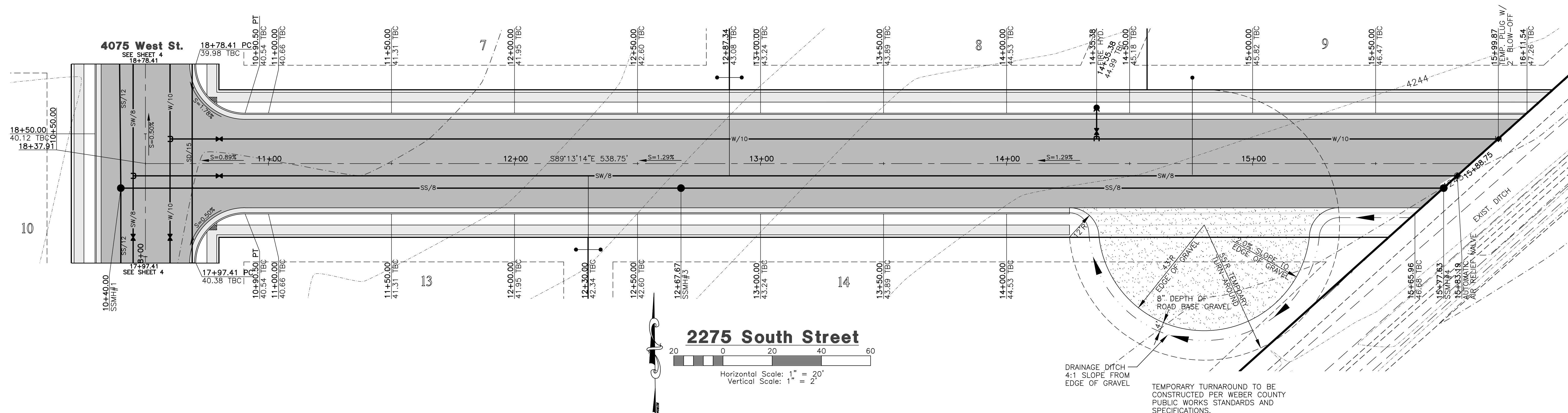
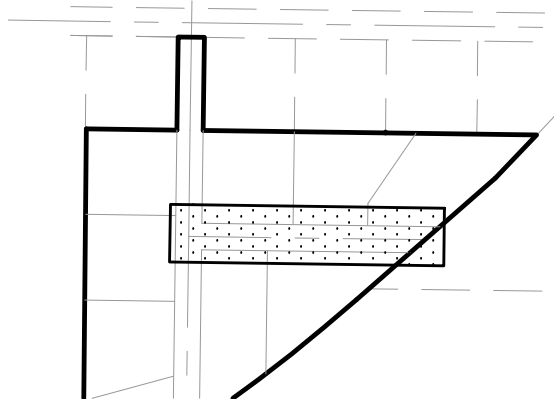
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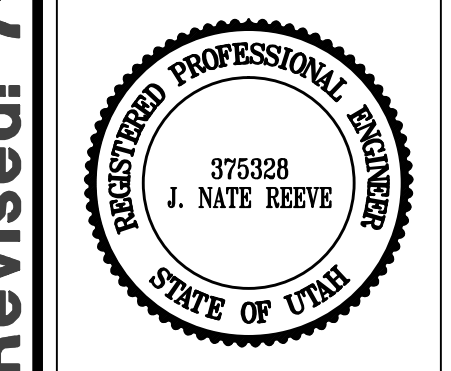
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Blue Acres Subdivision Phase-4
 WEBER COUNTY, UTAH
2275 South Street
10+00.00 - 15+50.00

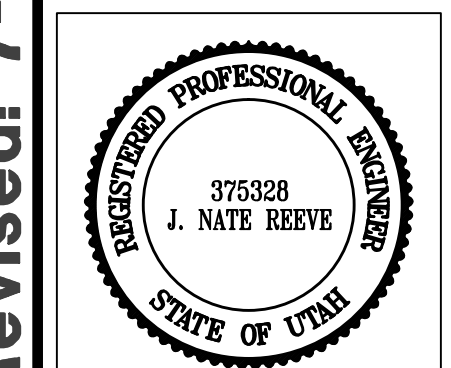


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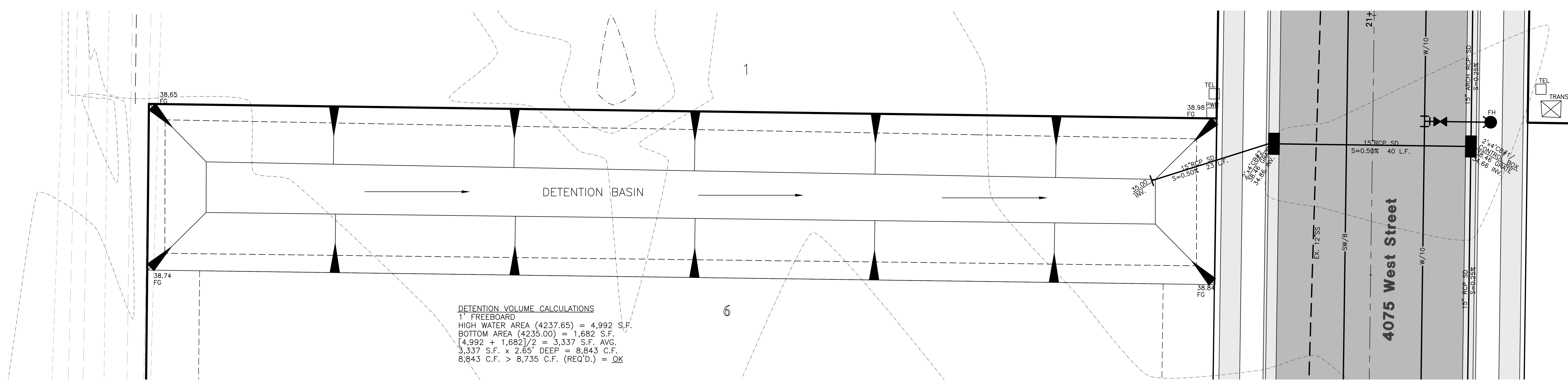
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Blue Acres Subdivision Phase-4
 WEBER COUNTY, UTAH
Detention Basin



Project Info.
 Engineer: J. NATE REEVE, P.E.
 Drafter: R. HANSEN
 Begin Date: JUNE 10, 2014
 Name: BLUE ACRES SUBDIVISION PHASE-4
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Storm Runoff Calculations
Blue Acres Subdivision - Phase 4
 6/19/2014 T.H.

The following runoff calculations are based on the Rainfall - Intensity - Duration Frequency Curve for the Weber County, UT area taken from data compiled by NOAA Atlas14, using a 100 year storm.

Runoff storm water has been calculated for two different sets of conditions, one being the existing undeveloped land and the other with land fully improved. The difference between the two quantities will be detailed in a holding pond. All water that runs off and over the property at present will be diverted into the holding pond and released at a reduced rate into the existing drainage system.

The calculations are as follows:

- Runoff from the undeveloped existing land.

Runoff Coefficient	C = 0.200
Rainfall Intensity	i = 2.81 IN./HR.
Runoff Quantity	Q = 0.2 per acre
Acreage	A = 6.40 ACRES

Q(out) = $A \cdot 0.2$ 1.28 CFS
- Runoff from developed land

Runoff Coefficients	
Paved Area	30,671 C = 0.9
Landscaped Area	222,225 C = 0.2
Roof	25,931 C = 0.8
Weighted Runoff Coefficient C = 0.33	
Rainfall Intensity	i = varies with time
Runoff Quantity	Q = CIA
- Detention Basin

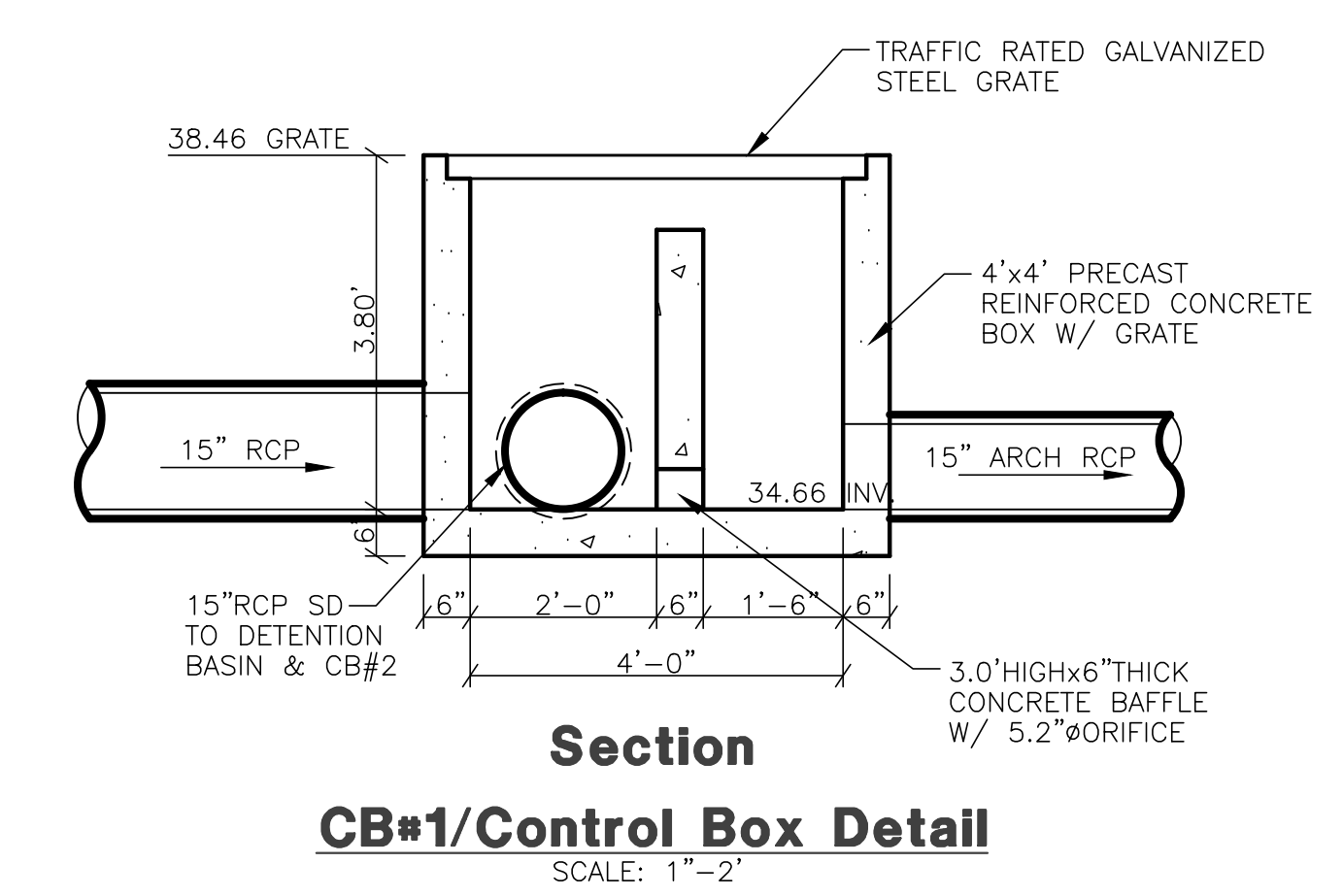
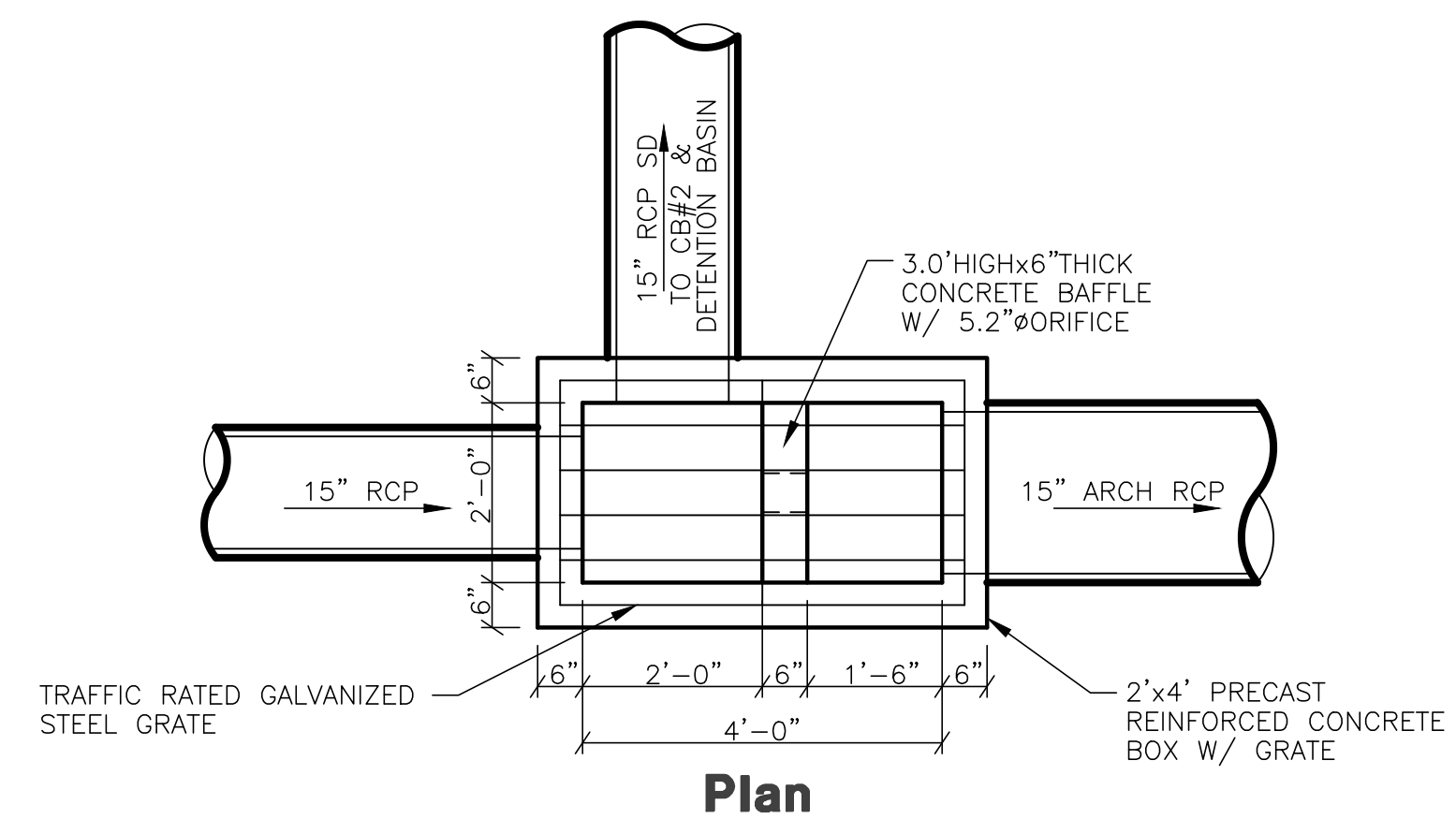
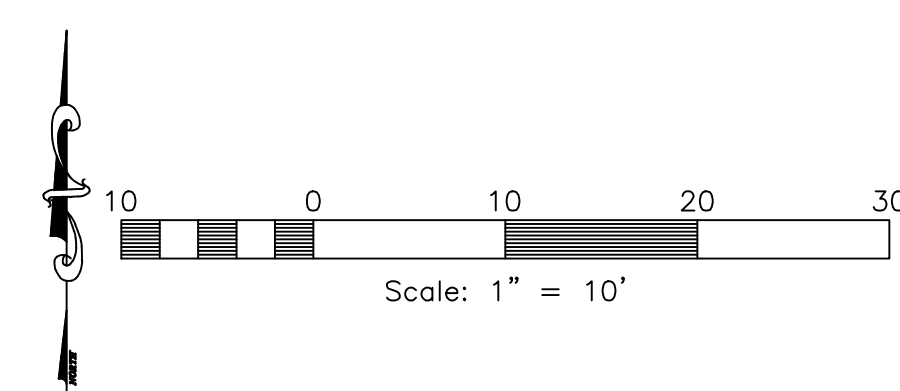
Volume in	Q * t
Volume out	1.28 * t

The capacity of the detention basin is calculated as the maximum difference between the volume flowing in and the volume flowing out.

The outflow from the detention basin is limited to outflow if undeveloped.
 Use 1.28 cfs for Q outflow

The required volume of the detention basin is 8,735 cubic feet

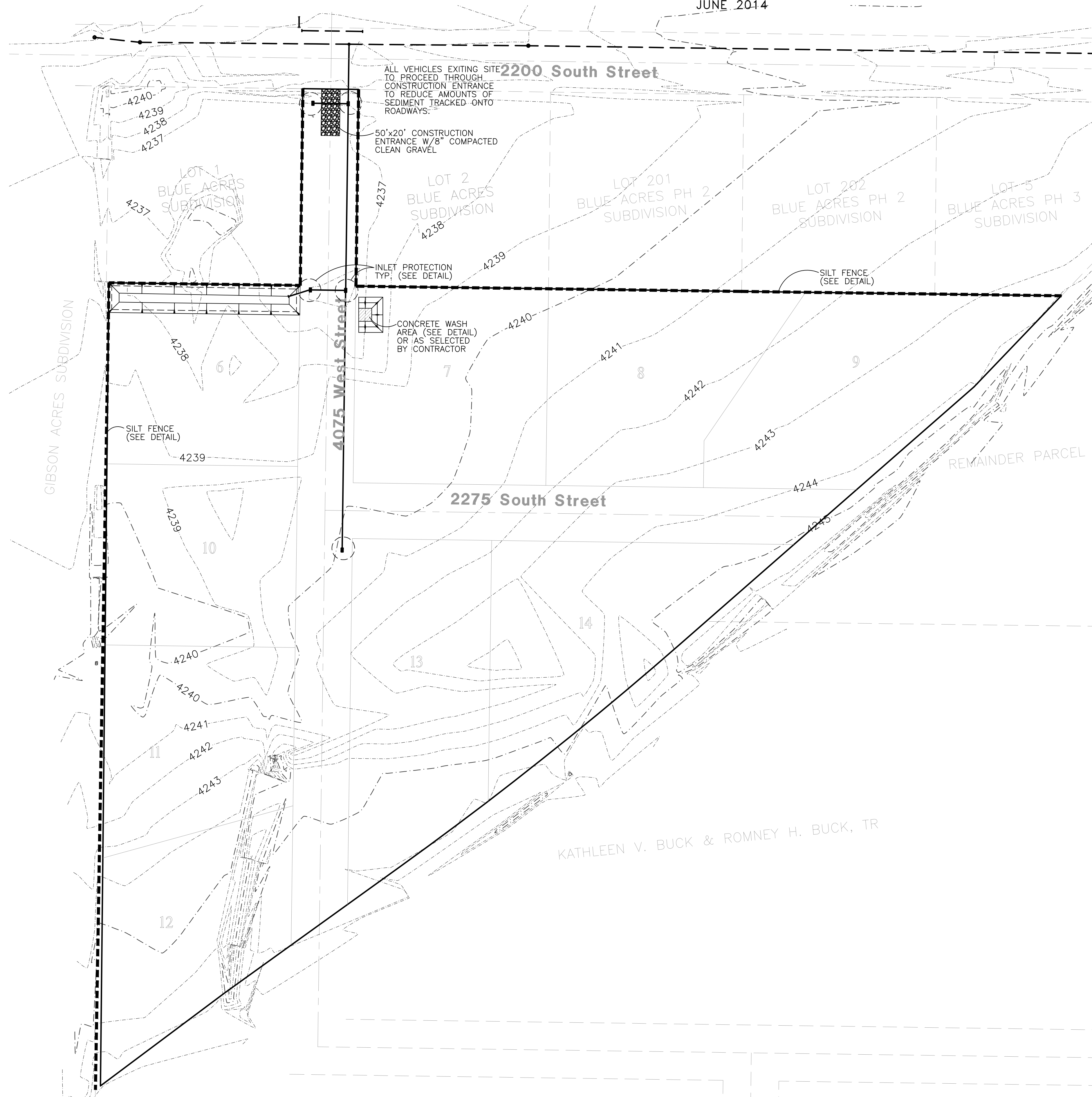
USE A 5.2 INCH DIAMETER ORIFICE AT OUTLET



BLUE ACRES SUBDIVISION Phase-4 Storm Water Pollution Prevention Plan Exhibit

WEBER COUNTY, UTAH
JUNE 2014

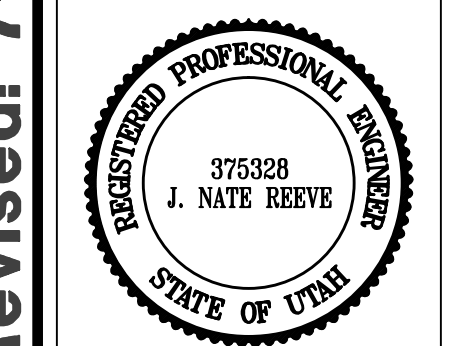
STREETS TO BE SWEEP WITHIN
1000 FEET OF CONSTRUCTION
ENTRANCE DAILY IF NECESSARY



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**Blue Acres Subdivision
Phase-4
Storm Water Pollution
Prevention Plan Exhibit**
WEBER COUNTY, UTAH

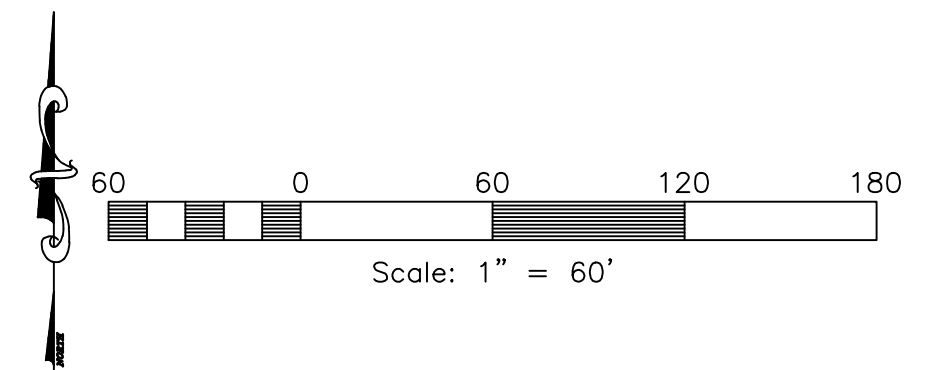


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Construction Activity Schedule

- PROJECT LOCATION.....WEBER COUNTY, UTAH
- PROJECT BEGINNING DATE.....JUNE 2014
- BMP'S DEPLOYMENT DATE.....JUNE 2014
- STORM WATER MANAGEMENT CONTACT / INSPECTOR.....ROMNEY BUCK (801) 540-7235
- SPECIFIC CONSTRUCTION SCHEDULE INCLUDING BMP CONSTRUCTION SCHEDULE TO BE INCLUDED WITH SWPPP BY OWNER/DEVELOPER



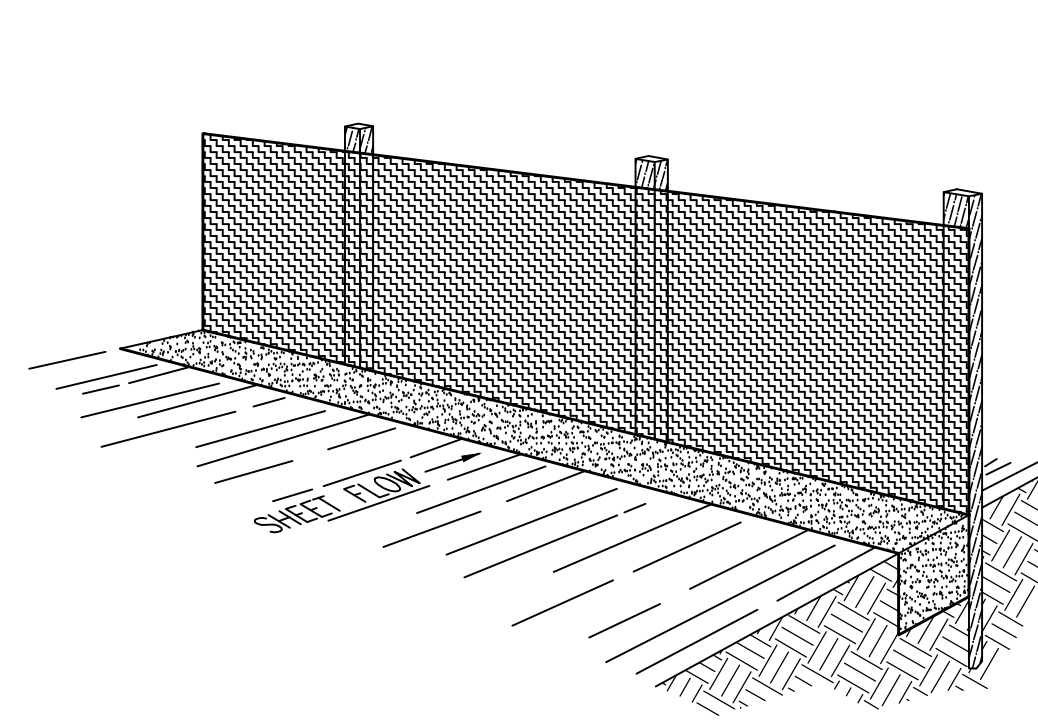
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IRA

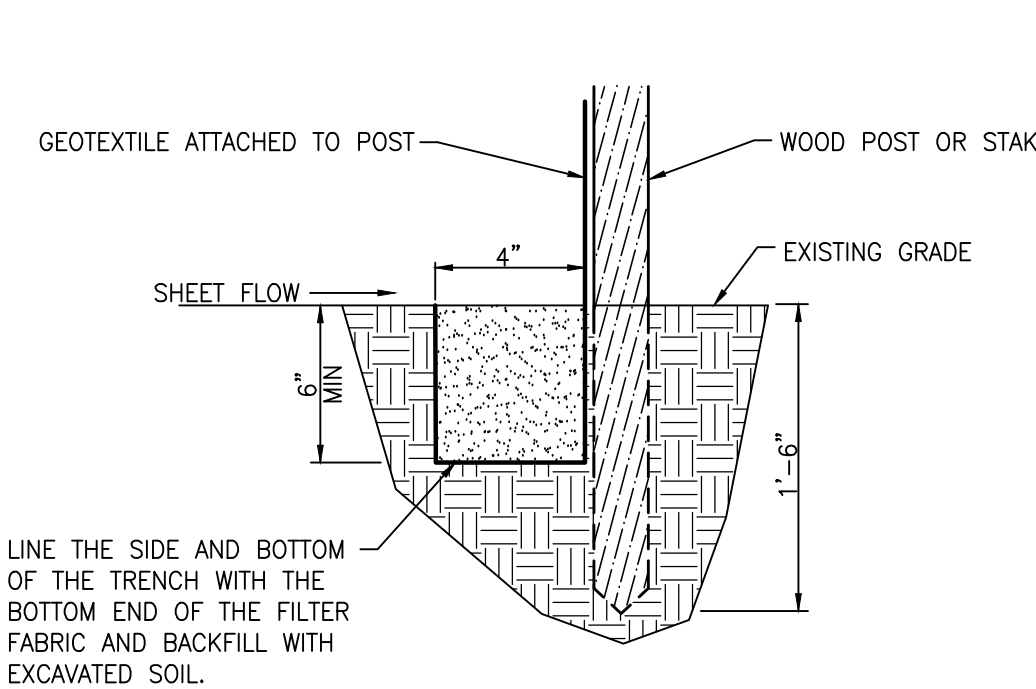
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Notes:

- Describe all BMP's to protect storm water inlets:
All storm water inlets to be protected by straw wattle barriers, or gravel bags (see detail).
- Describe BMP's to eliminate/reduce contamination of storm water from:
 - Equipment / building / concrete wash areas:
To be performed in designated areas only and surrounded with silt fence barriers.
 - Soil contaminated by soil amendments:
If any contaminants are found or generated, contact environmental engineer and contacts listed.
 - Areas of contaminated soil:
If any contaminants are found or generated, contact environmental engineer and contacts listed.
 - Fueling area:
To be performed in designated areas only and surrounded with silt fence.
 - Vehicle maintenance areas:
To be performed in designated areas only and surrounded with silt fence.
 - Vehicle parking areas:
To be performed in designated areas only and surrounded with silt fence.
 - Equipment storage areas:
To be performed in designated areas only and surrounded with silt fence.
 - Materials storage areas:
To be performed in designated areas only and surrounded with silt fence.
 - Waste containment areas:
To be performed in designated areas only and surrounded with silt fence.
 - Service areas:
To be performed in designated areas only and surrounded with silt fence.
- BMP's for wind erosion:
Stockpiles and site as needed to be watered regularly to eliminate / control wind erosion
- Construction Vehicles and Equipment:
 - Maintenance
 - Maintain all construction equipment to prevent oil or other fluid leaks.
 - Keep vehicles and equipment clean, prevent excessive build-up of oil and grease.
 - Regularly inspect on-site vehicles and equipment for leaks, and repair immediately.
 - Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment on-site.
 - Segregate and recycle wastes, such as greases, used oil or oil filters, antifreeze, cleaning solutions, automotive batteries, hydraulic, and transmission fluids.
 - Fueling
 - If fueling must occur on-site, use designated areas away from drainage.
 - Locate on-site fuel storage tanks within a bermed area designed to hold the tank volume.
 - Cover retention area with an impervious material and install in a manner to ensure that any spills will be contained in the retention area. To catch spills or leaks when removing or changing fluids.
 - Use drip pans for any oil or fluid changes.
 - Washing
 - Use as little water as possible to avoid installing erosion and sediment controls for the wash area.
 - If washing must occur on-site, use designated, bermed wash areas to prevent waste water discharge into storm water, creeks, rivers, and other water bodies.
 - Use phosphate-free, biodegradable soaps.
 - Do not permit steam cleaning on-site.
- Spill Prevention and Control
 - Minor Spills:
Minor spills are those which are likely to be controlled by on-site personnel. After contacting local emergency response agencies, the following actions should occur upon discovery of a minor spill:
 - Contain the spread of the spill.
 - If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (i.e. absorbent materials, cat litter, and / or rags).
 - If the spill occurs in dirt areas, immediately contain the spill by constructing an earth dike. Dig up property dispose of contaminated soil.
 - If the spill occurs during rain, cover the impacted area to avoid runoff.
 - Record all steps taken to report and contain spill.
 - Major Spills:
On-site personnel should not attempt to control major spills until the appropriate and qualified emergency response staff have arrived at the site. For spills of federal reportable quantities, also notify the National Response Center at (800) 424-8802. A written report should be sent to all notified authorities. Failure to report major spills can result in significant fines and penalties.
- Post Roadway / Utility Construction
 - Maintain good housekeeping practices.
 - Enclose or cover building material storage areas.
 - Properly store materials such as paints and solvents.
 - Store dry and wet materials under cover, away from drainage areas.
 - Avoid mixing excess amounts of fresh concrete or cement on-site.
 - Perform washout of concrete trucks offsite or in designated areas only.
 - Do not wash out concrete trucks into storm drains, open ditches, streets or streams.
 - Do not place material or debris into streams, gutters or catch basins that stop or reduce the flow of runoff water.
 - All public streets and storm drain facilities shall be maintained free of building materials, mud and debris caused by grading or construction operations. Roads will be swept within 1000' of construction entrance daily, if necessary.
 - Install straw wattle around all inlets contained within the development and all others that receive runoff from the development.
- Erosion Control Plan Notes
 - The contractor will designate an emergency contact that can be reached 24 hours a day 7 days a week.
 - A stand-by crew for emergency work shall be available at all times during potential rain or snow runoff events. Necessary materials shall be available on site and stockpiled at convenient locations to facilitate rapid construction of emergency devices when rain or runoff is eminent.
 - Erosion control devices shown on the plans and approved for the project may not be removed without approval of the engineer of record. If devices are removed, no work may continue that have the potential of erosion without consulting the engineer of record. If deemed necessary erosion control should be reestablished before this work begins.
 - Graded areas adjacent to fill slopes located at the site perimeter must drain away from the top of the slope at the conclusion of each working day. This should be confirmed by survey or other means acceptable to the engineer of record.
 - All silt and debris shall be removed from all devices within 24 hours after each rain or runoff event.
 - Except as otherwise approved by the inspector, all removable protective devices shown shall be in place at the end of each working day and through weekends until removal of the system is approved.
 - All loose soil and debris, which may create a potential hazard to offsite property, shall be removed from the site as directed by the Engineer of record of the governing agency.
 - The placement of additional devices to reduce erosion damage within the site is left to the discretion of the Engineer of record.
 - Desilting basins may not be removed or made inoperable without the approval of the engineer of record and the governing agency.
 - Erosion control devices will be modified as need as the project progresses, and plans of these changes submitted for approval by the engineer of record and the governing agency.
- Conduct a minimum of one inspection of the erosion and sediment controls every two weeks. Maintain documentation on site.
 - Part III.D.4 of general permit UTR300000 identifies the minimum inspection requirements.
 - Part III.D.4.C identifies the minimum inspection report requirements.
 - Failure to complete and/or document storm water inspections is a violation of part III.D.4 of Utah General Permit UTR 300000.



Perspective View



Section

INSTALLATION

The silt fence should be installed prior to major soil disturbances in the drainage area. The fence should be placed across the slope along a line of uniform elevation wherever flow of sediment is anticipated. Table 1 shows generally-recommended maximum slope lengths (slope spacing between fences) at various site grades for most silt fence applications.

TABLE 1: Recommended Maximum Slope Lengths for Silt Fence (Richardson & Middlebrooks, 1991)	
Slope Steepness (%)	Max. Slope Length m (ft)
<2%	30.5m (100ft)
2-5%	22.9m (75ft)
5-10%	15.2m (50ft)
10-20%	7.6m (25ft)
>20%	4.5m (15ft)

PREFABRICATED SILT FENCE ROLLS

- *Excavate a minimum 15.2cm x 15.2cm (6"x6") trench at the desired location.
- *Unroll the silt fence, positioning the post against the downstream wall of the trench.
- *Adjacent rolls of silt fence should be joined by nesting the end post of one fence into the other. Before nesting the end posts, rotate each post until the geotextile is wrapped completely around the post, then abut the end posts to create a tight seal as shown in Figure 1.
- *Drive posts into the ground until the required fence height and/or anchorage depth is obtained.
- *Bury the loose geotextile at the bottom of the trench in the upstream trench and backfill with natural soil, tamping the backfill to provide good compaction and anchorage. Figure 2 illustrates a typical silt fence installation and anchor trench placement.

should generally be less than three (3) times the height of the fence.

- *If a steel or plastic mesh is required to reinforce the geotextile, it shall have a minimum mesh opening of 15.2cm (6").
- *Fasten the mesh to the upslope side of the posts using heavy duty wire staples, tie wires or hog strings. Extend the mesh into the bottom of the trench.
- *The geotextile shall then be stapled or wired to the posts. An extra 20-50cm (8-20") of geotextile shall extend into the trench.

INSPECTION

- *Inspect the silt fence daily during periods of rainfall, immediately after significant rainfall event and weekly during periods of no rainfall. Make any repairs immediately.
- *When sediment deposits behind the silt fence are one-third of the fence height, remove and properly dispose of the silt accumulations. Avoid damage to the fabric during cleanout.

REMOVAL

- *Silt fence should not be removed until construction ceases and the upslope area has been properly stabilized and/or revegetated.

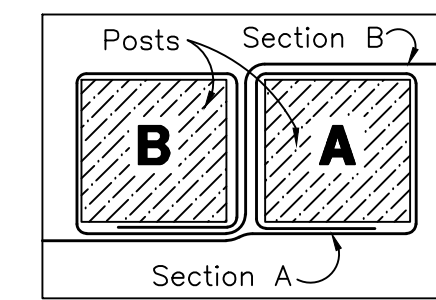
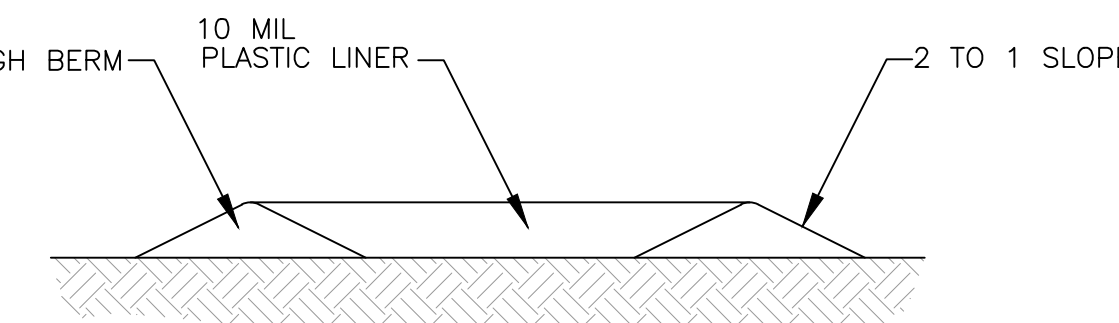
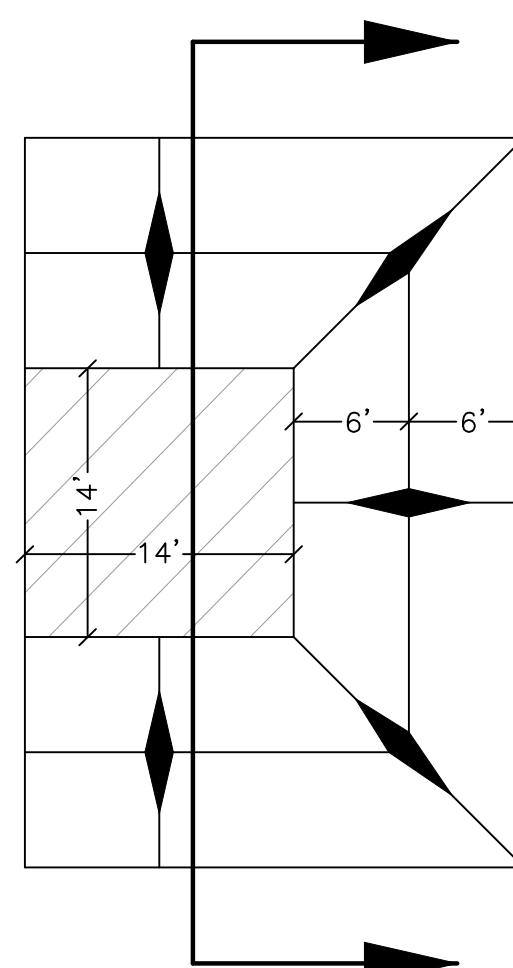


Figure 1:
Top View of
Roll-to-Roll Connection

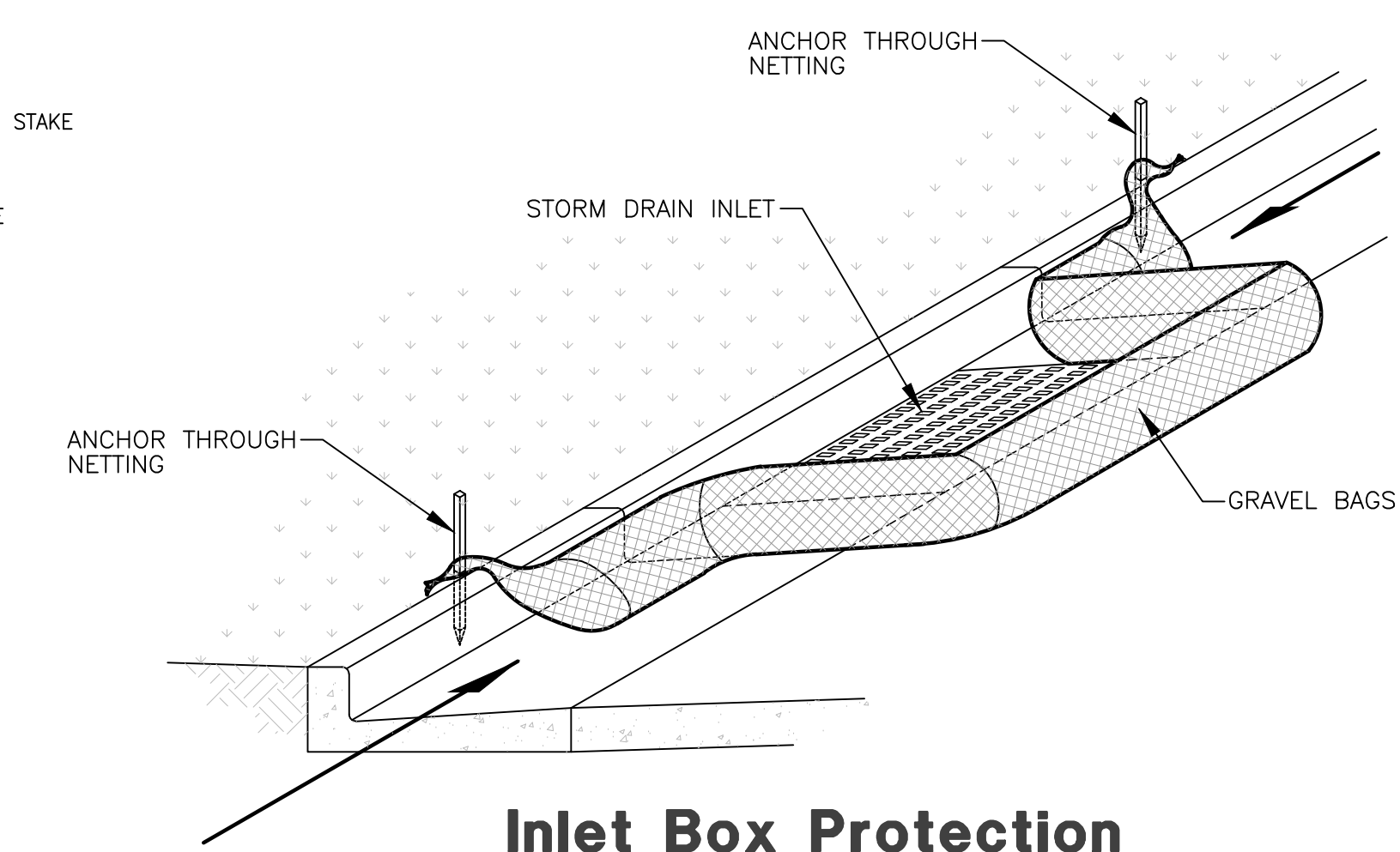
Silt Fence Detail

SCALE: NONE

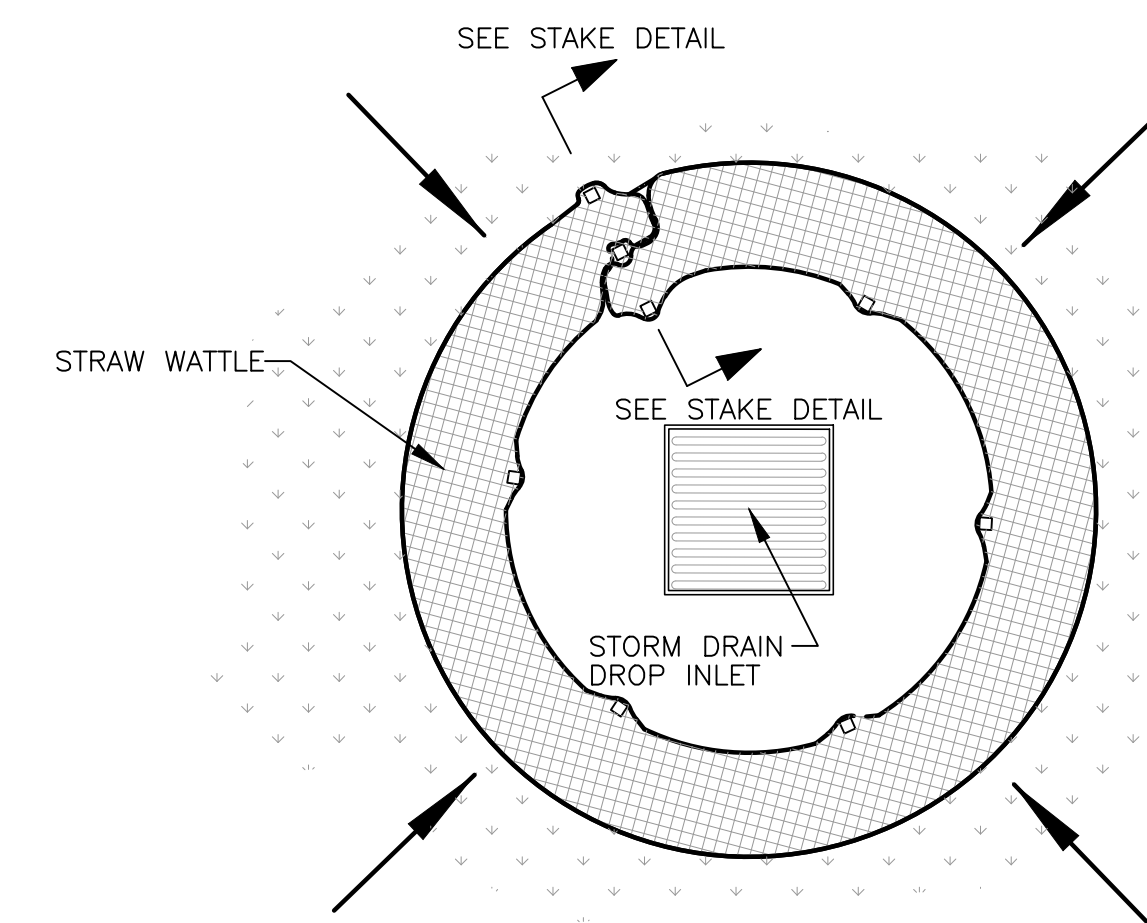


**Concrete Washout Area
w/ 10 mil Plastic Liner**

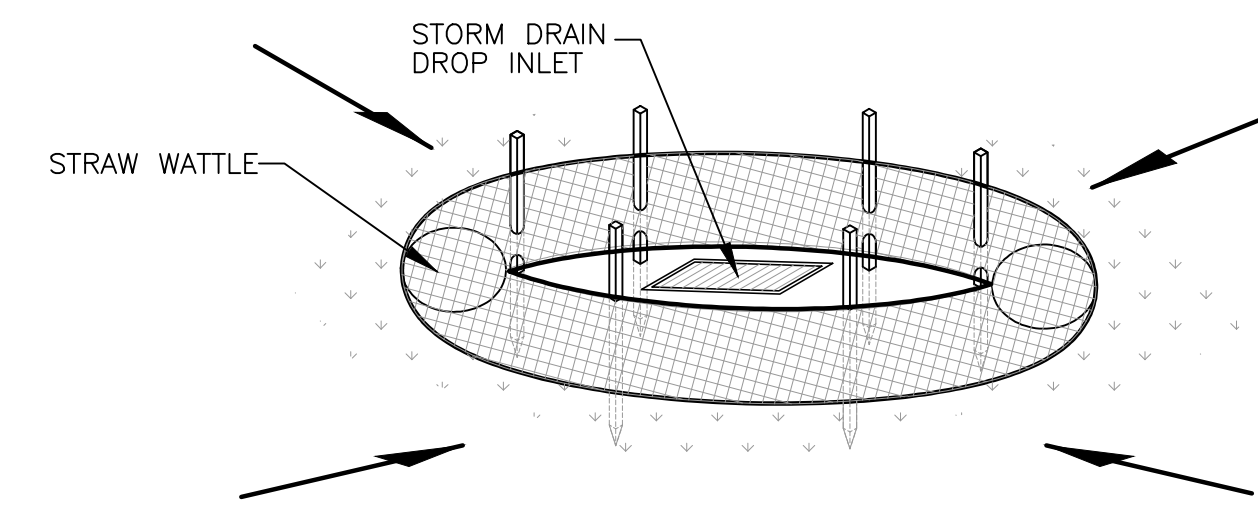
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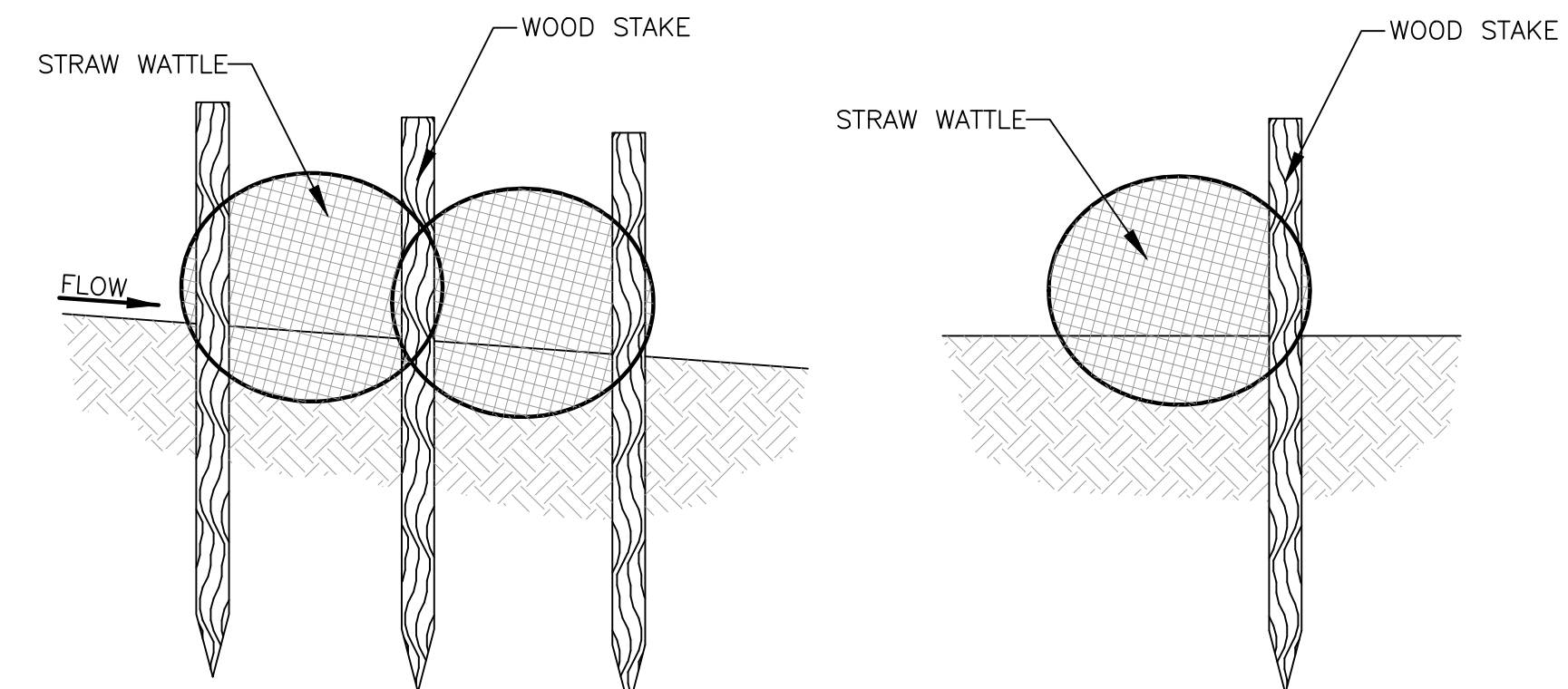
Inlet Box Protection



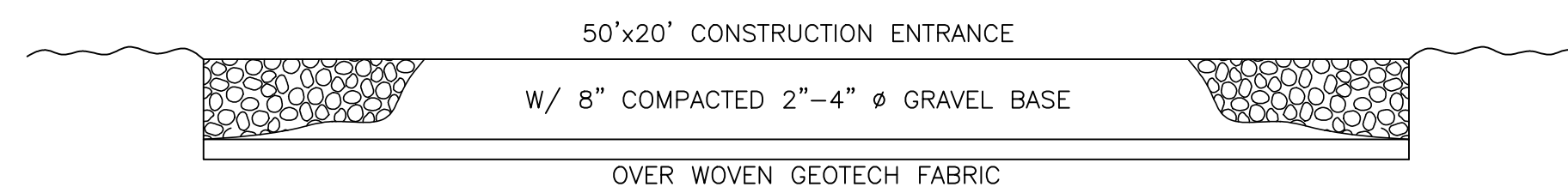
Plan View



Drop Inlet Protection



Stake Detail



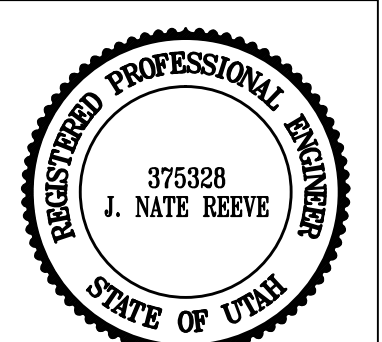
Cross Section 50' x 20' Construction Entrance



REVISIONS	DATE	DESCRIPTION
	9-3-14	RH Client Changes
	1-12-15	RH County Comments
	1-20-15	RH County Comments
	2-11-15	RH Client Changes
	3-17-15	TP County Comments
	3-27-15	TP County Comments
	6-25-15	RH County Comments

**Blue Acres Subdivision
Phase-4**
WEBER COUNTY, UTAH
**Storm Water Pollution
Prevention Plan Details**

Revised: 7-7-15



Project Info.
Engineer:
J. NATE REEVE, P.E.
Drafted:
R. HANSEN
Begin Date:
JUNE 10, 2014
Name:
BLUE ACRES
SUBDIVISION
PHASE-4
Number: 5036-01

Sheet	8
8	Sheets