

Plan Check 8/5/16 B.W.F.

Project Narrative/Notes/Revisions

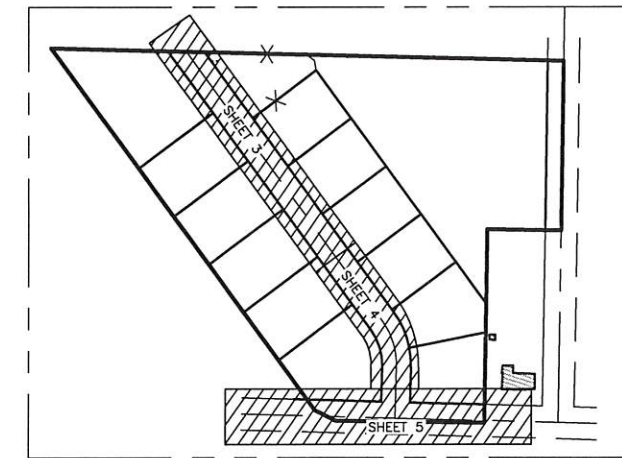
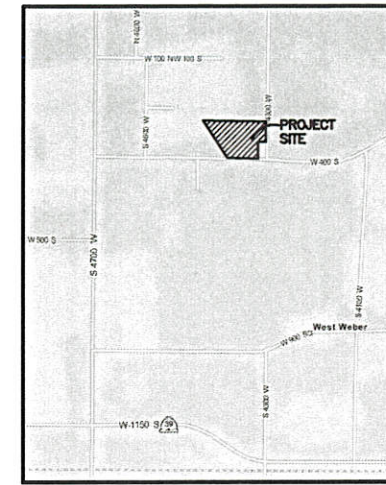
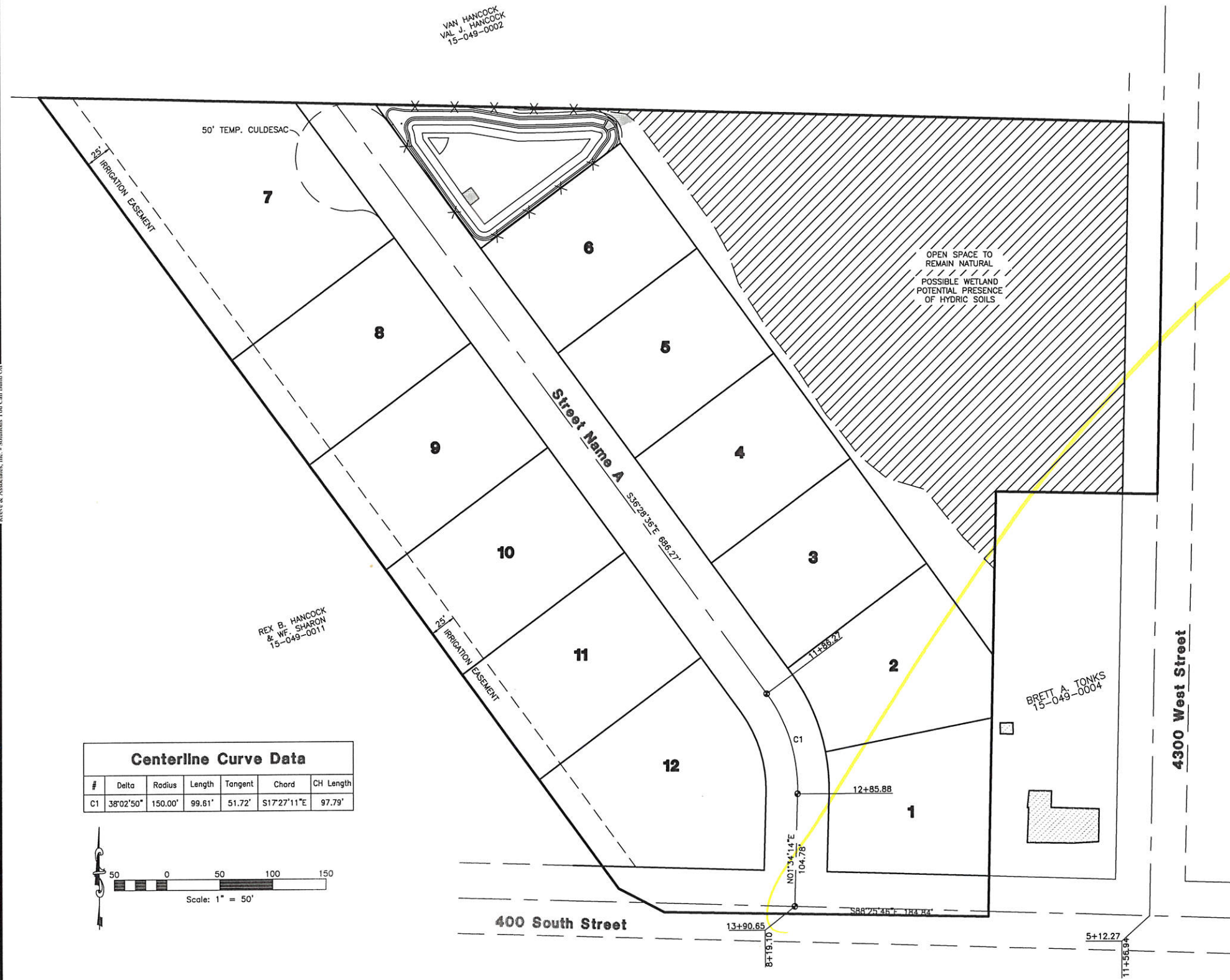
- 1) 11/19/15 CK - COMPLETED DESIGN FOR CLIENT & CITY REVIEW.
- 2) 11/23/15 TH - QUALITY CONTROL CHECK & INTERNAL REVIEW.
- 3) 12/22/15 WS - PUMP DESIGN & IRRIGATION SYSTEM UPDATES.
- 4) 03/24/16 CK - UPDATED PLANS PER CITY COMMENTS.
- 5) 07/12/16 CK - REMOVED STUB ROAD PER CLIENT REQUEST.

Henry Flats Cluster Subdivision Improvement Plans

WEST WEBER CITY, WEBER COUNTY, UTAH
NOVEMBER, 2015

WAV HANCOCK
VAL J. HANCOCK
15-049-0002

REX B. HANCOCK
& W.F. SHARON
15-049-0011



Sheet Index

- Sheet 1 - Cover/Index Sheet
- Sheet 2 - Notes/Legend/Street Cross-Section
- Sheet 3 - Street Name - 4+50.00-10+50.00
- Sheet 4 - Street Name - 10+50.00-14+00.00
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- Sheet 7 - Master Grading and Drainage Plan
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- Sheet 9 - Storm Water Pollution Prevention Plan Details
- Sheet 10 - Irrigation Pump House Details
- Sheet 11 - Detention Basin Grading Plan
- Sheet 12 - APWA Details

Engineer's Notice To Contractors

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM AVAILABLE INFORMATION PROVIDED BY OTHERS. THE LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR IS REQUIRED TO CONTACT THE UTILITY COMPANIES AND TAKE DUE PRECAUTIONARY MEASURE TO PROTECT ANY UTILITY LINES SHOWN, AND ANY OTHER LINES OBTAINED BY THE CONTRACTOR'S RESEARCH, AND OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

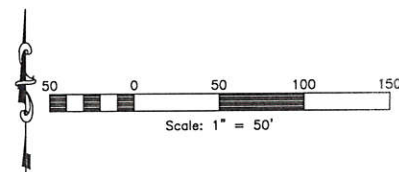
Developer Contact:

Travis Wallace
PAANC LLC
3872 W. 2550 S.
Taylor City, Weber Co., Utah
PH: (801) 540-9011

Blue Stokes Location Center

Call: Toll Free
1-800-662-4111
Two Working Days Before You Dig

#	Delta	Radius	Length	Tangent	Chord	CH Length
C1	38°02'50"	150.00'	99.61'	51.72'	S17°27'11"E	97.79'



Reeve & Associates, Inc.
207 CHAMBERS STREET, SUITE 14, OGDEN, UTAH 84403
TEL: (801) 474-1100
FAX: (801) 474-1101
WWW.REEVE-ASSOCIATES.COM

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REVISIONS	DESCRIPTION
DATE	

Henry Flats Cluster Subdivision
WEST WEBER CITY, WEBER COUNTY, UTAH

Cover/Index Sheet

Revised: 07-12-16

REGISTERED PROFESSIONAL ENGINEER
375328
J. NATE REEVE
STATE OF UTAH

Project Info.
Engineer: J. NATE REEVE
Drafted: C. KINGSLEY
Begin Date: NOVEMBER, 2015
Name: HENRY FLATS CLUSTER SUBDIVISION
Number: 6272-01

Sheet **12**
1 Sheets

When is sheet 12

General Notes:

- 1. ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: GOVERNING UTILITY MUNICIPALITY, GOVERNING CITY OR COUNTY (IF UN-INCORPORATED), INDIVIDUAL PRODUCT MANUFACTURERS, AMERICAN PUBLIC WORKS ASSOCIATION (APWA), AND THE DESIGN ENGINEER. THE ORDER LISTED ABOVE IS ARRANGED BY SENIORITY. IF A CONSTRUCTION PRACTICE IS NOT SPECIFIED BY ANY OF THE LISTED SOURCES, CONTRACTOR MUST CONTACT DESIGN ENGINEER FOR DIRECTION.

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.

Master Legend

Table with 3 columns: Symbol, Description, and Description. Includes symbols for proposed and existing lines for water, sewer, storm, and land drains, as well as catch basins, manholes, and various utility symbols like fire hydrants and valves.

Stormwater Pollution Prevention Plan (SWPPP)

General Notes:

THE CONTRACTOR SHALL COMPLETE ALL PAPERWORK, TEXT AND APPLICATIONS FOR THE SWPPP INCLUDING THE OBTAINING OF A NOTICE OF INTENT (NOT) FROM THE UTAH STATE DEPARTMENT OF WATER QUALITY.

THE CONTRACTOR SHALL SUBMIT THE COMPLETED SWPPP WITH APPLICATION FOR A STORM WATER CONSTRUCTION ACTIVITY PERMIT FROM THE WEBER COUNTY ENGINEERING DEPARTMENT.

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. ALSO, INSPECTORS WILL HAVE THE RIGHT TO CHANGE THE FACILITIES AS NEEDED.

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.

THE CONTRACTOR SHALL MODIFY EROSION CONTROL MEASURES TO ACCOMMODATE PROJECT PLANNING.

ALL ACCESS TO PROPERTY WILL BE FROM PUBLIC RIGHT-OF-WAYS. THE CONTRACTOR IS REQUIRED BY STATE AND FEDERAL REGULATIONS TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN AND FILE A "NOTICE OF INTENT" WITH THE GOVERNING AGENCIES.

SILT FENCE TO REMAIN UNTIL LANDSCAPING HAS BEEN INSTALLED FOR LOT & BASIN IMPROVEMENTS

Maintenance:

ALL BEST MANAGEMENT PRACTICES (BMP'S) SHOWN ON THIS PLAN MUST BE MAINTAINED AT ALL TIMES UNTIL ISSUANCE OF NOTICE OF TERMINATION BY THE UTAH DEPARTMENT OF WATER QUALITY.

THE CONTRACTOR'S RESPONSIBILITY SHALL INCLUDE MAKING BI-WEEKLY CHECKS ON ALL EROSION CONTROL MEASURES TO DETERMINE IF REPAIR OR SEDIMENT REMOVAL IS NECESSARY. CHECKS SHALL BE DOCUMENTED AND COPIES OF THE INSPECTIONS KEPT ON SITE.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF BARRIER.

SEDIMENT TRACKED ONTO PAVED ROADS MUST BE CLEANED UP AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN THE END OF THE NORMAL WORK DAY. THE CLEAN UP WILL INCLUDE SWEEPING OF THE TRACKED MATERIAL, PICKING IT UP, AND DEPOSITING IT TO A CONTAINED AREA.

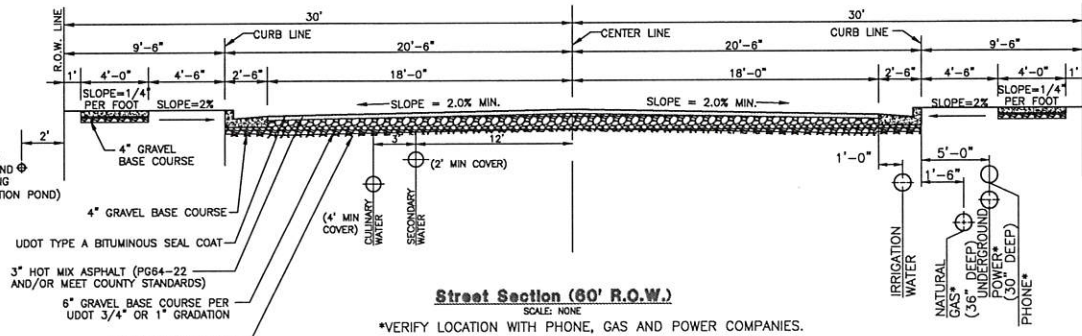
EXPOSED SLOPES:

ANY EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS: A) Spraying DISTURBED AREAS WITH A TACKIFIER VIA HYDROSEED B) TRACKING STRAW PERPENDICULAR TO SLOPES C) INSTALLING A LIGHT-WEIGHT, TEMPORARY EROSION CONTROL BLANKET

UTILITY CONTACT INFORMATION:

Table listing utility companies and their contact information: QUESTAR GAS (800-323-5517), ROCKY MOUNTAIN POWER (888-221-7070), CENTURY LINK (877-348-9007), HOOPER IRRIGATION (801-985-8429), WEST WEBER/TAYLOR WATER IMPROVEMENT DISTRICT (801-731-1668), COMCAST (800-934-6489), WEBER COUNTY (STORM DRAIN) (801-399-8374).

? The fence to the rear of lots 1 & 2



Revised: 07-12-16

Henry Flats Cluster Subdivision

WEST WEBER CITY, WEBER COUNTY, UTAH

Notes/Legend/ Street Cross-Section

Reeve & Associates, Inc. logo and contact information: 920 CHAMBERS STREET, SUITE 14, OGDEN, UTAH 84403. TEL: (801) 871-3100 FAX: (801) 871-2668

Table with columns: REVISIONS, DESCRIPTION, DATE. It is currently empty.

Professional Engineer seal for J. NATE REEVE, State of Utah, License No. 375328.

Project Info: Engineer: J. NATE REEVE, Drafter: C. KINGSLEY, Begin Date: NOVEMBER, 2015, Name: HENRY FLATS CLUSTER SUBDIVISION, Number: 6272-01

Sheet 2 of 12 Sheets

This needs to be moved to near the entry to this 6 Street

INSTALL Manhole

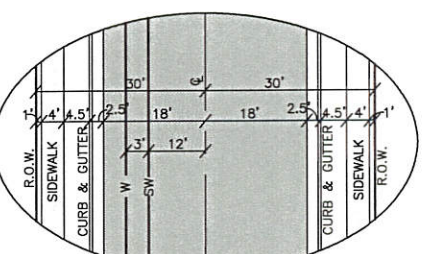
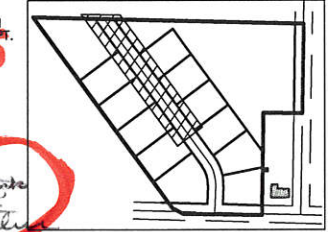
Note Provide full depth expansion joint for future C&G Removal!

Note APWA Std # 225 Typical Driveway Apron! this sheet is sheet 11

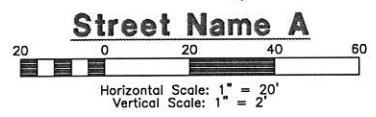
Construction Notes:

- 1) ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY & MANUAL OF STANDARD PLANS 2012 PUBLISHED BY APWA. WHEN IN CONFLICT, SEEK CLARIFICATION FROM WEBER COUNTY ENGINEERING DEPT.
 - 2) ALL STORM DRAIN PIPE IS TO HAVE TYPE 2 BEDDING, LESS THAN 500 LBS PER ACPA FILL HEIGHT CHARTS.
- CULINARY WATER
 W/B - 8" PVC C-900 CLASS 200 WATER
 W - 1" TYPE K COPPER SERVICE LATERAL
 SANITARY SEWER
 EACH LOT TO HAVE INDIVIDUAL SCOPTIC LINE
 STORM DRAIN
 SD/18 - 18" RCP STORM DRAIN (CLASS III)
 SECONDARY WATER
 SW/6 - 6" PVC C-900 SECONDARY WATER LINE
 IRR/B - 8" ASTM D3034 SDR 35 IRRIGATION LINE
 SW - (DOUBLE SERVICE) 1.5" CTS HDPE PIPE SERVICE LATERAL
 SW - (SINGLE SERVICE) 1" CTS HDPE PIPE SERVICE LATERAL

Key Map NOT TO SCALE

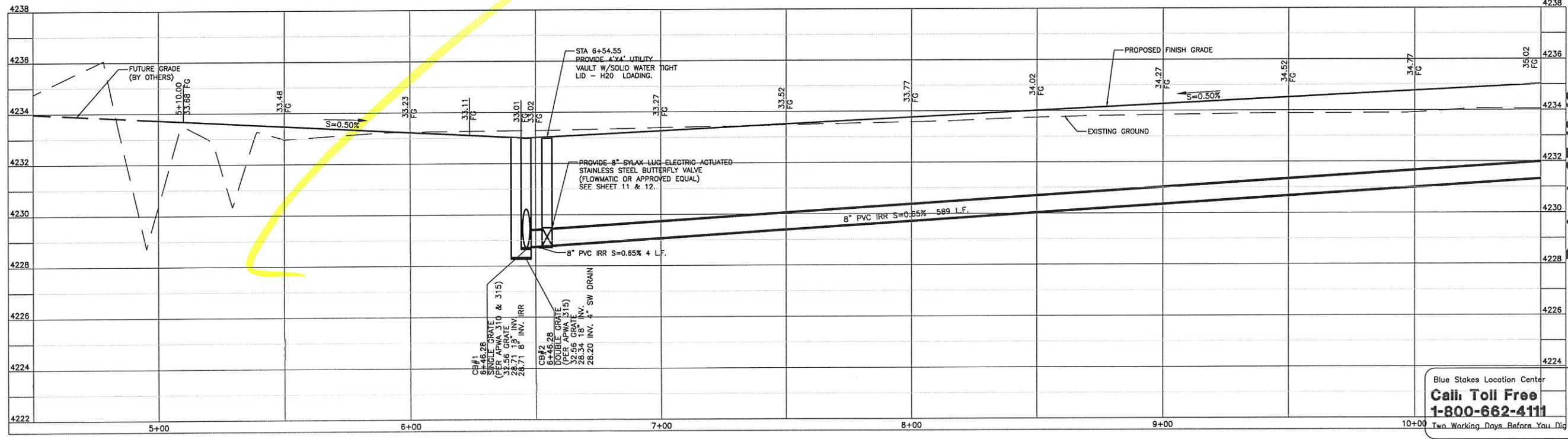


Street Dimensions
LOOKING UP-STATION



TBC Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C1	242°10'54"	40.50'	171.19'	67.16'	S22°25'56"W	69.36'
C2	62°10'55"	34.50'	37.44'	20.80'	N67°34'04"W	35.63'



Revised: 07-12-16

Reeve & Associates, Inc.

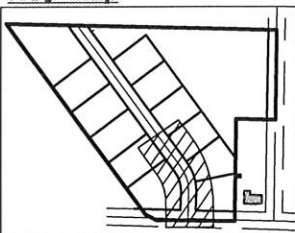
 LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
 1051 W. 2000 S., SUITE 100, P.O. BOX 100, Vernal, UT 84057
 TEL: (435) 426-3100 FAX: (435) 426-3100 www.reeveinc.com

REVISIONS	DESCRIPTION
DATE	

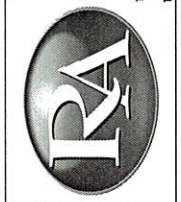
Henry Flats Cluster Subdivision
 WEST WEBER CITY, WEBER COUNTY, UTAH
Street Name A
4+50.00 - 10+50.00

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 375328
 J. NATE REEVE
 STATE OF UTAH

Project Info.
 Engineer: J. NATE REEVE
 Drafter: C. KINGSLEY
 Begin Date: NOVEMBER, 2015
 Name: HENRY FLATS CLUSTER SUBDIVISION
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 1000 S. 1000 E. SUITE 200, OGDEN, UT 84403
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 WWW: REEVE-ASSOCIATES.COM
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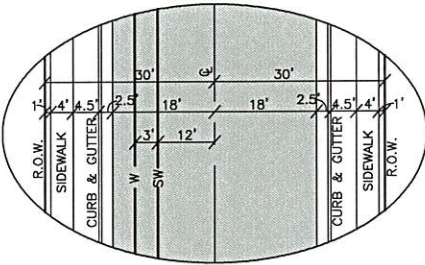
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 EACH LOT TO HAVE INDIVIDUAL SEPTIC LINE *system*
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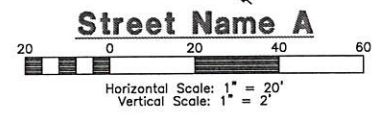
MOORE Dead End sign to this out

PS

PS



Street Dimensions
LOOKING UP-STATION



Centerline Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C1	38°02'50"	150.00'	99.61'	51.72'	S17°27'11"E	97.79'

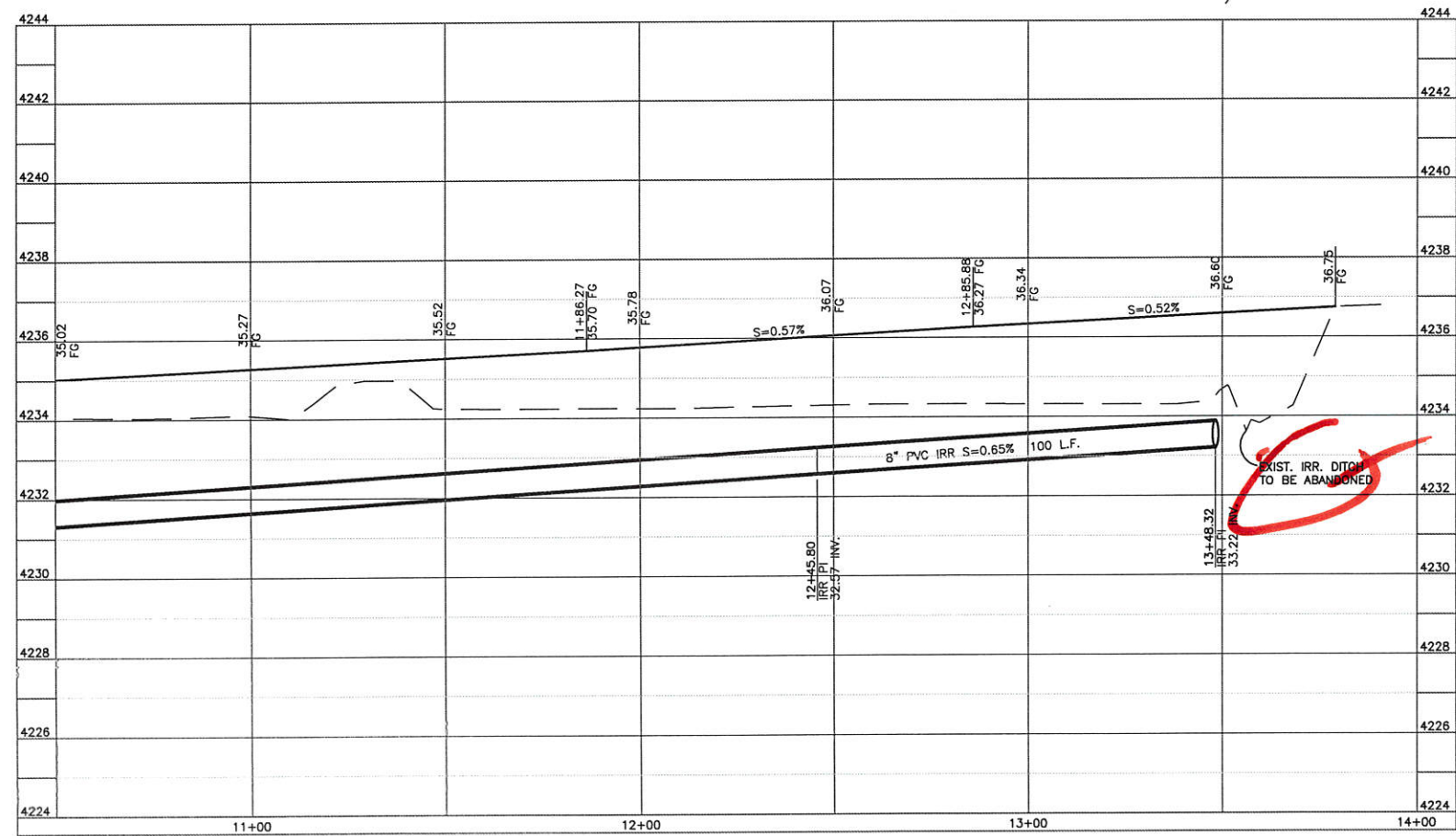
TBC Curve Data

#	Delta	Radius	Length	Tangent	Chord	CH Length
C3	38°02'50"	129.50'	85.99'	44.65'	N17°27'11"W	84.42'
C4	90°00'00"	20.00'	31.42'	20.00'	N46°34'14"E	28.28'
C5	90°00'00"	20.00'	31.42'	20.00'	S43°25'46"E	28.28'
C6	38°02'50"	170.50'	113.22'	58.79'	N17°27'11"W	111.15'



add note for typical drive approach

is there a cut out that needs to be removed?



EXIST. IRR. DITCH TO BE ABANDONED

Revised: 07-12-16

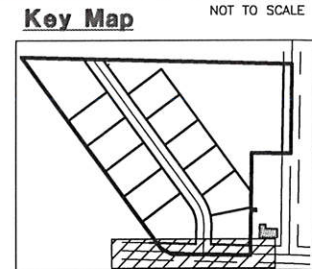
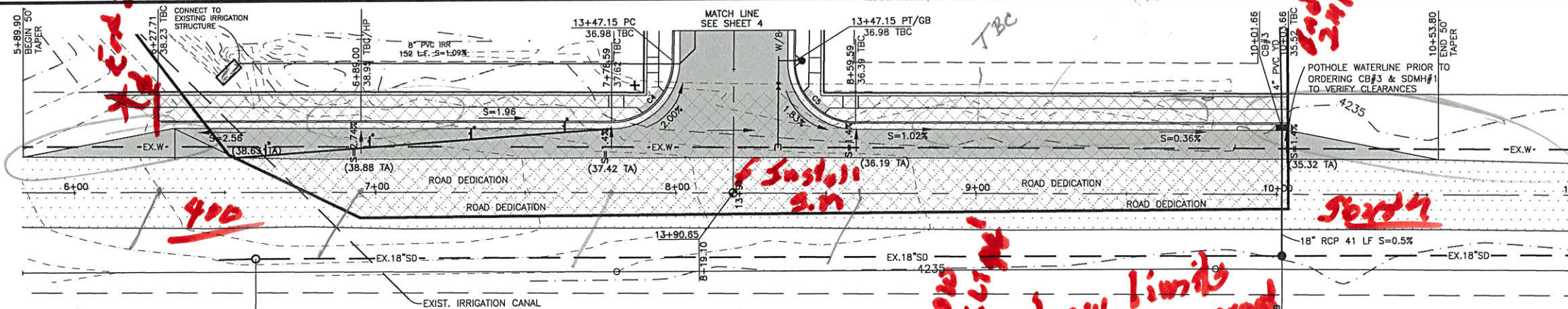
Henry Flats Cluster Subdivision

WEST WEBER CITY, WEBER COUNTY, UT/4H
Street Name A
 10+50.00 - 14+00.00

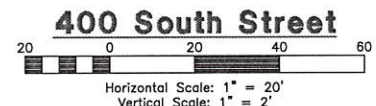
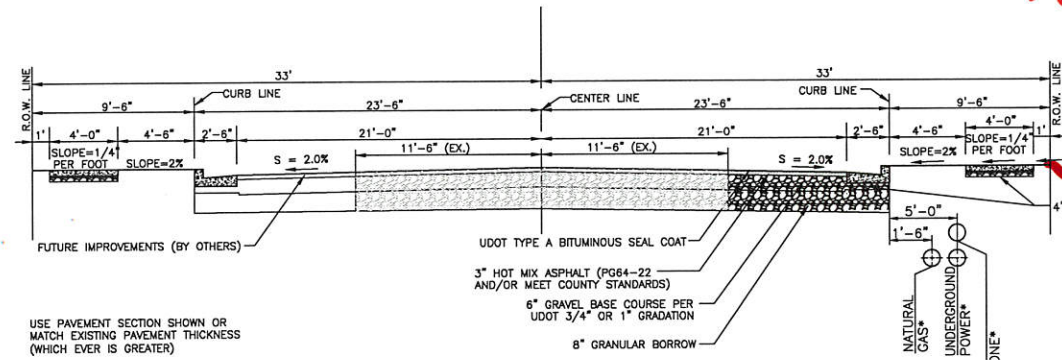


Project Info.
 Engineer: J. NATE REEVE
 Drafter: C. KINGSLEY
 Begin Date: NOVEMBER, 2015
 Name: HENRY FLATS CLUSTER SUBDIVISION
 Number: 6272-01

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

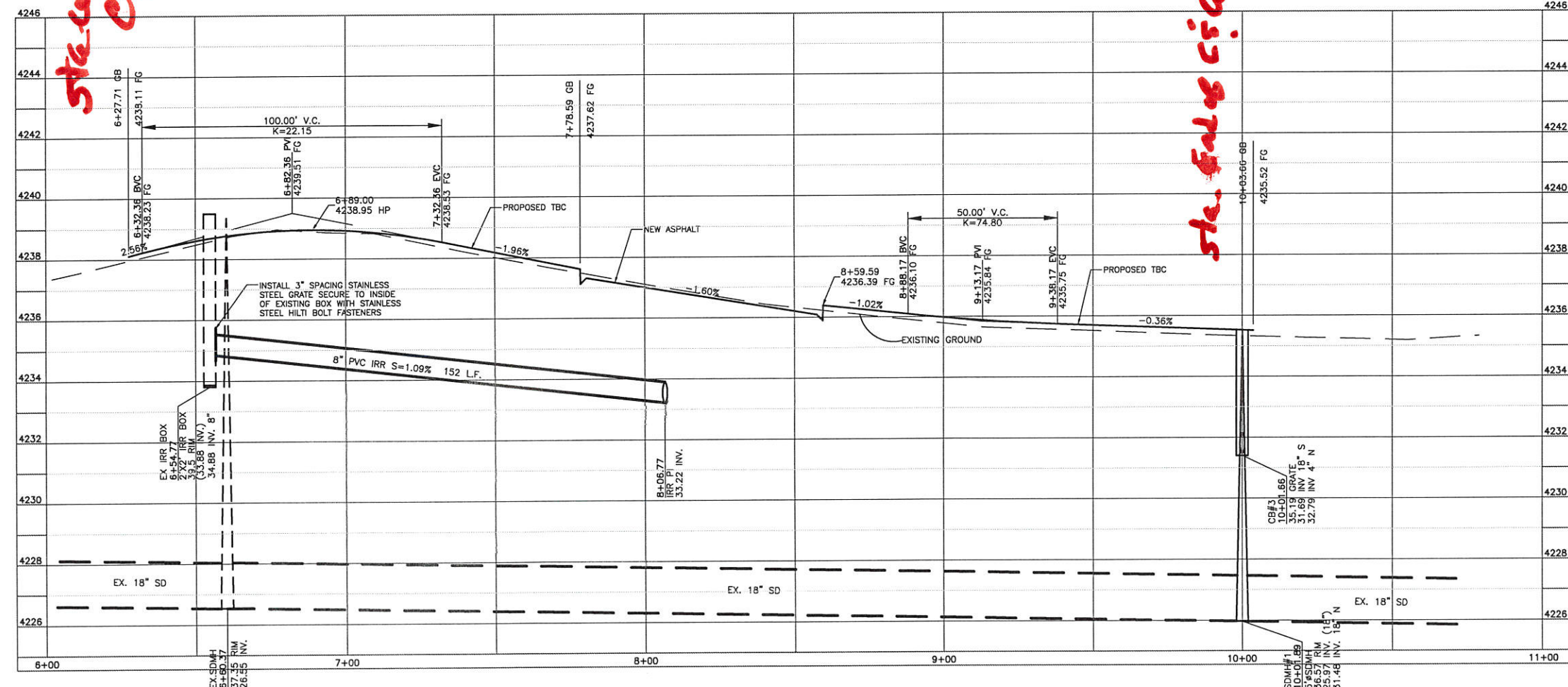


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REVISIONS

DATE	DESCRIPTION

Henry Flats Cluster Subdivision
 WEST WEBER CITY, WEBER COUNTY, UTAH
400 South Street
6+00.00 - 11+00.00

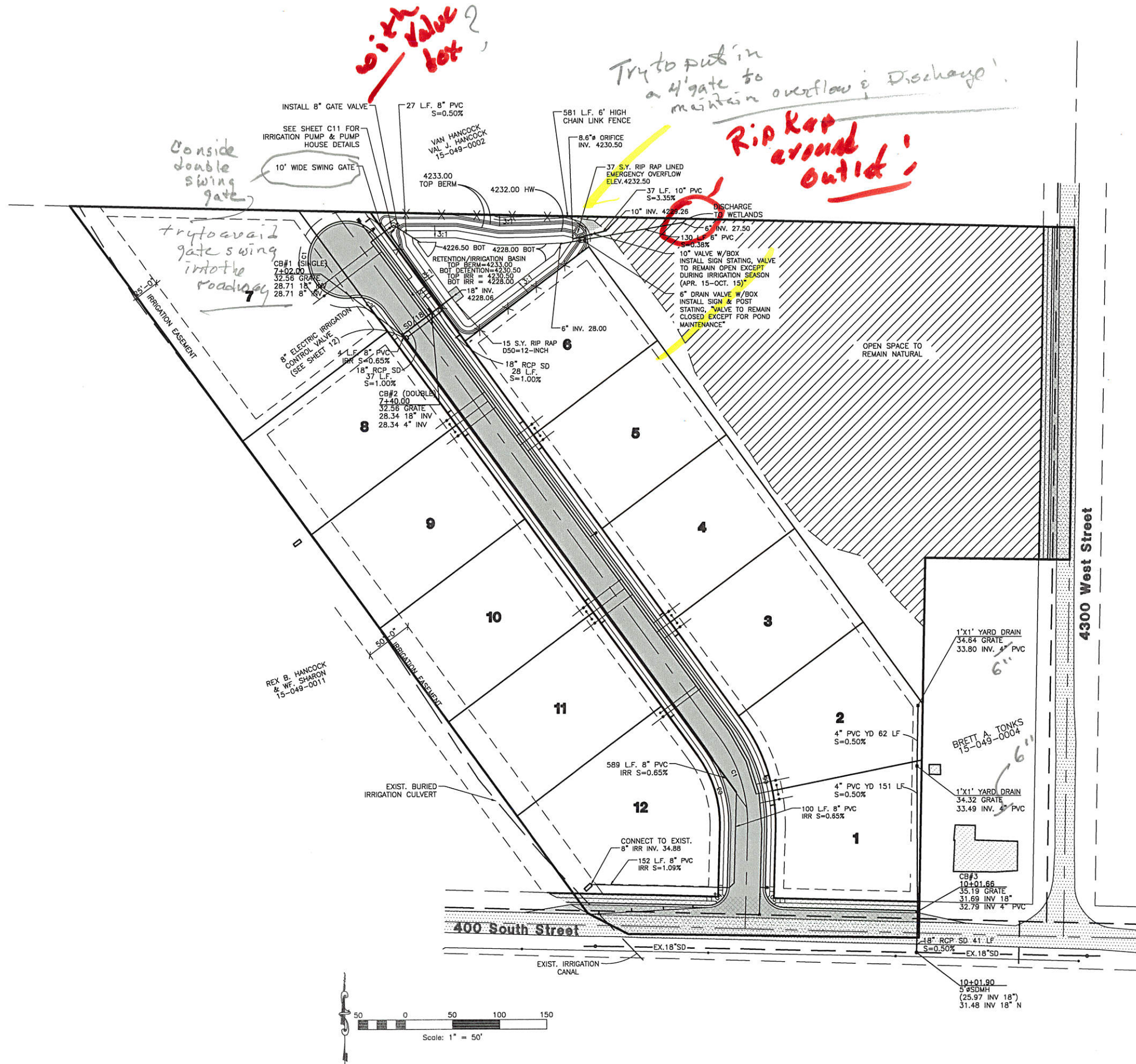
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Sheet **12**
5 Sheets



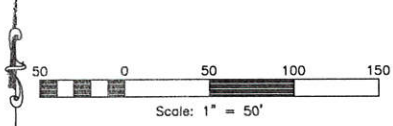
with valve box?

Try to put in a 4' gate to maintain overflow & discharge!

RIP RAP around outlet!

Consider double swing gate

try to avoid gate swing into the roadway



Reeve & Associates, Inc.
IRA
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF UTAH
 375328
 J. NATE REEVE

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Henry Flats Cluster Subdivision
 WEST WEBER CITY, WEBER COUNTY, UTAH
Master Utility Plan

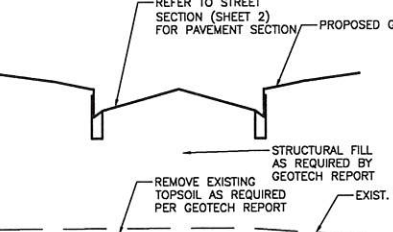
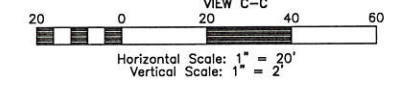
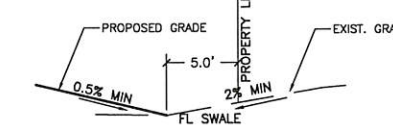
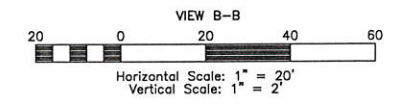
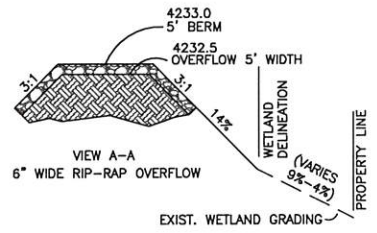
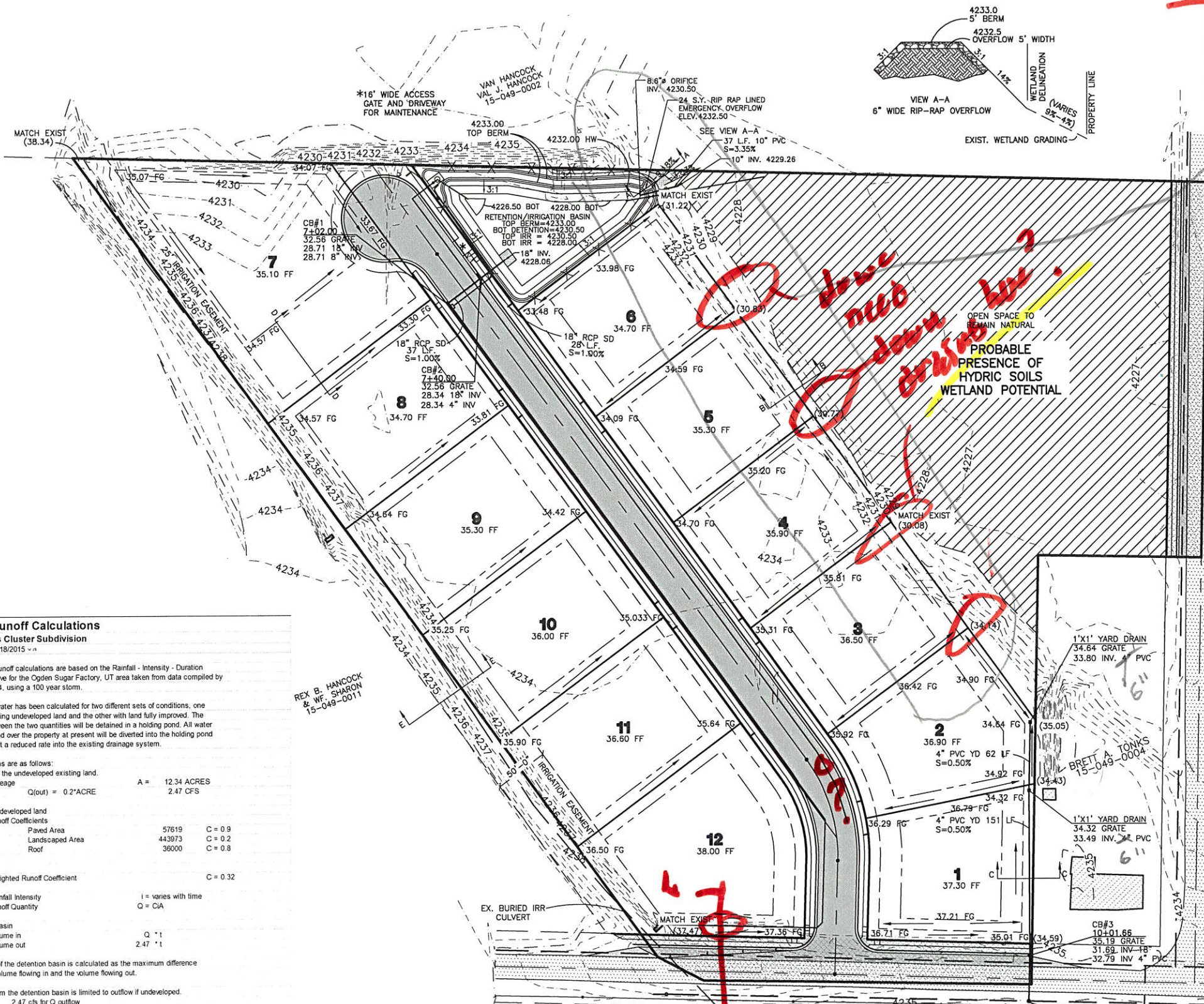
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 Begin Date: NOVEMBER, 2015
 Name: HENRY FLATS CLUSTER SUBDIVISION
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Sheet **12**
6 Sheets

What happens with runoff from back half of the lot?



4300 West Street

400 South Street

Storm Runoff Calculations

Henry Flats Cluster Subdivision
11/18/2015
The following runoff calculations are based on the Rainfall - Intensity - Duration Frequency Curve for the Ogden Sugar Factory, UT area taken from data compiled by NOAA Atlas 14, 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 retained 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.
Acreage A = 12.34 ACRES
 $Q(out) = 0.2 \times \text{ACRE}$ 2.47 CFS
- Runoff from developed land
Runoff Coefficients
Paved Area 57619 C = 0.9
Landscaped Area 443973 C = 0.2
Roof 36000 C = 0.8

Weighted Runoff Coefficient C = 0.32

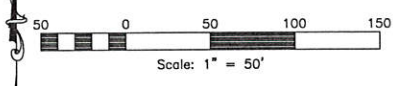
Rainfall Intensity $i = \text{varies with time}$
Runoff Quantity $Q = CIA$
- Detention Basin
Volume in $Q \cdot t$
Volume out 2.47 t

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 2.47 cfs for Q outflow

The required volume of the detention basin is 15,202 cubic feet

USE A 8.6 INCH DIAMETER ORIFICE AT OUTLET



do we need driveway lot?

Show Irrigation line in this section

Is there an irrigation pipe well?

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REVISIONS	DESCRIPTION	DATE

Reeve & Associates, Inc. - Solutions You Can Build On

Henry Flats Cluster Subdivision
 WEST WEBER CITY, WEBER COUNTY, UTAH

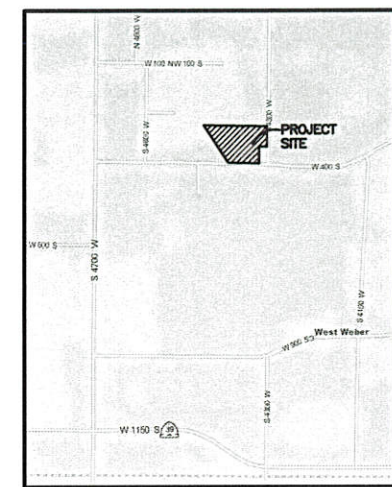
Master Grading Plan

Revised: 07-12-16

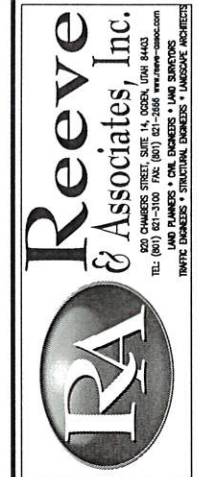
Project Info.
 Engineer: J. NATE REEVE
 Drafter: C. KINGSLEY
 Begin Date: NOVEMBER, 2015
 Name: HENRY FLATS CLUSTER SUBDIVISION
 Number: 6272-01

Henry Flats Subdivision Phase 1 Storm Water Pollution Prevention Plan Exhibit

WEST WEBER CITY, WEBER COUNTY, UTAH
MARCH, 2016

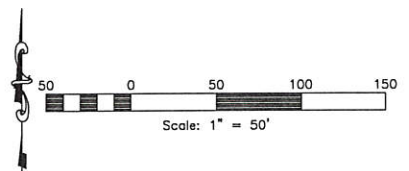
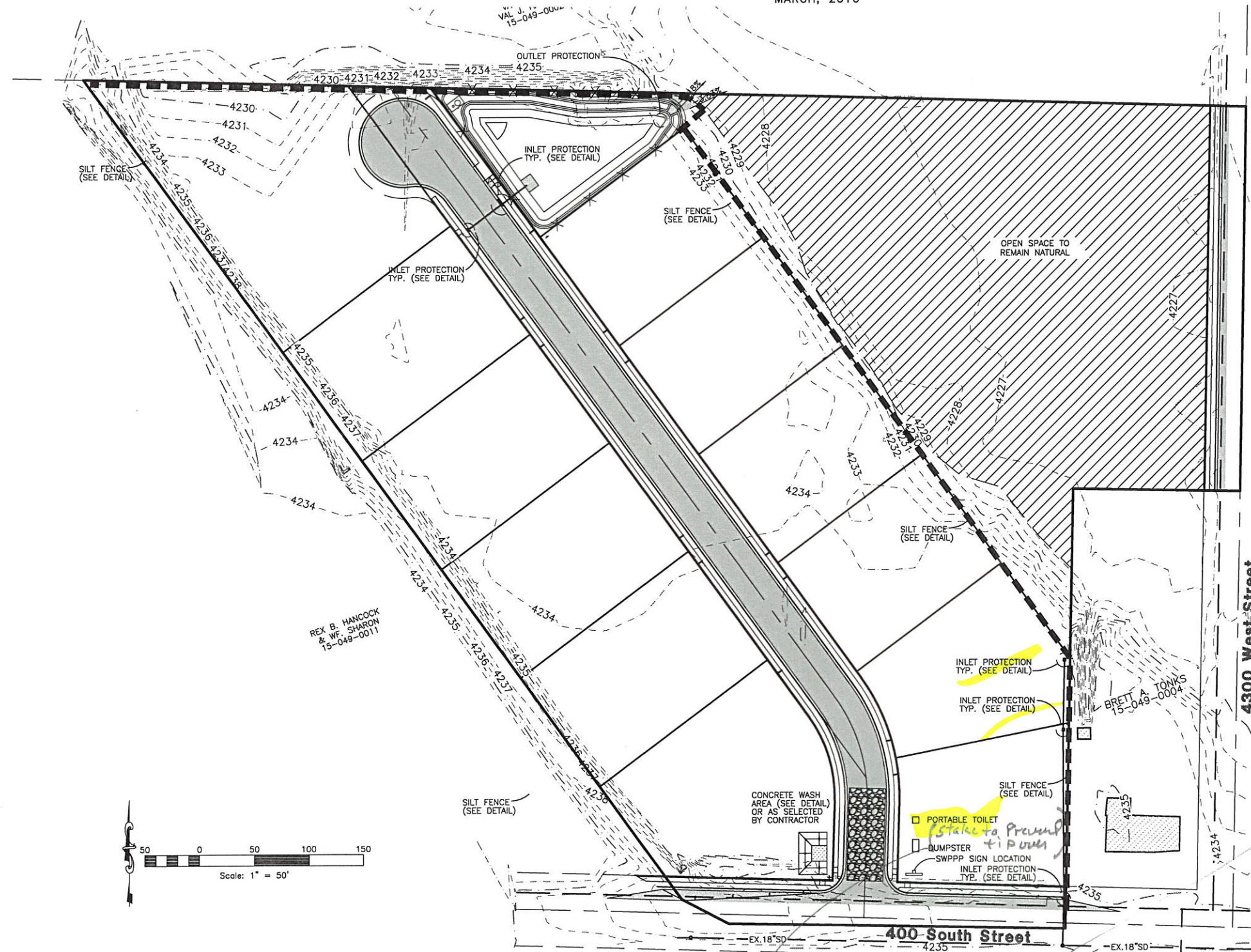


Vicinity Map
NOT TO SCALE



REVISIONS	DESCRIPTION

- General Notes**
- CONTRACTOR IS REQUIRED TO COMPLETE THE ASSOCIATED PAPERWORK, APPLICATION, AND SUBMITTAL OF THE SWPPP TO THE COUNTY FOR A STORM WATER CONSTRUCTION ACTIVITY PERMIT WITH THE FOLLOW-UP APPLICATION TO THE UTAH STATE DIVISION OF WATER QUALITY (DWQ) FOR OBTAINING AN NOI.
 - THE CURRENT CONSTRUCTION GENERAL PERMIT REQUIRES EROSION PREVENTION, SEDIMENT CONTAINMENT, INLET PROTECTION, GOOD HOUSEKEEPING AND POST CONSTRUCTION STABILIZATION.
 - SILT FENCE TO REMAIN UNTIL LANDSCAPING HAS BEEN INSTALLED FOR LOT & BASIN IMPROVEMENTS.



Stake toilet to prevent tipping
Note a covered dumpster to be emptied when 3/4 full

with cover empty when 3/4 full

STREETS TO BE SWEEPED WITHIN 1000 FEET OF CONSTRUCTION ENTRANCE DAILY, IF NECESSARY.
ALL VEHICLES EXITING SITE TO PROCEED THROUGH CONSTRUCTION ENTRANCE TO REDUCE AMOUNTS OF SEDIMENT TRACKED ONTO ROADWAYS.
50'x20' CONSTRUCTION ENTRANCE W/8" COMPACTED CLEAN GRAVEL CONTRACTOR REQUIRED TO PREVENT TRACK OUT AND BACK UP SUPPORT FOR STREET SWEEPING.

Construction Activity Schedule	
PROJECT LOCATION.....	WEST WEBER CITY, WEBER COUNTY, UTAH
PROJECT BEGINNING DATE.....	MARCH 2016
BMP'S DEPLOYMENT DATE.....	MARCH 2016
STORM WATER MANAGEMENT CONTACT / INSPECTOR.....	TBD
SPECIFIC CONSTRUCTION SCHEDULE INCLUDING BMP CONSTRUCTION SCHEDULE TO BE INCLUDED WITH SWPPP BY OWNER/DEVELOPER	

Revised: 07-12-16

Henry Flats Cluster Subdivision
WEST WEBER CITY, WEBER COUNTY, UTAH
Storm Water Pollution Prevention Plan Exhibit



Project Info.	
Engineer:	J. NATE REEVE
Drafter:	C. KINGSLEY
Begin Date:	NOVEMBER, 2015
Name:	HENRY FLATS CLUSTER SUBDIVISION
Number:	6272-01

Sheet	12
8	Sheets

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. All dumpsters or trash containers shall be covered and no fluids shall be placed therein.
 - Service areas:
To be performed in designated areas only and surrounded with silt fence.

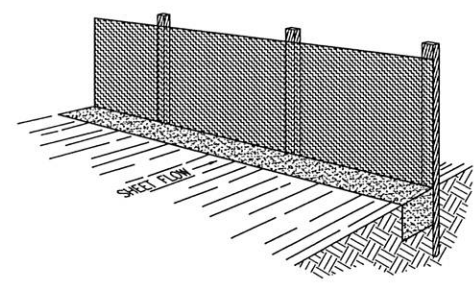
- BMP's for wind erosion:
Stockpiles and site as needed to be watered regularly to eliminate / control wind erosion
- Construction Vehicles and Equipment:
 - Maintenance
 - Maintain all construction equipment to prevent oil or other fluid leaks.
 - Keep vehicles and equipment clean, prevent excessive 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.
 - No liquid waste shall be poured out onto the ground or to any drain but disposed of in a proper legal manner.
 - 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.
 - Remove and dispose of any contaminated soils resulting from fuel spillage in the legal and proper manner.
 - 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.
 - Do not permit steam cleaning on-site.
 - No discharge of wash water containing soaps, detergents or solvents shall be allowed onsite.

- 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 & properly 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.

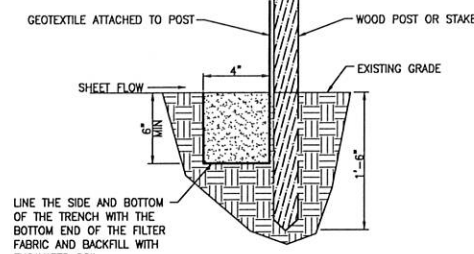
- Post Roadway / Utility Construction
 - Maintain good housekeeping practices.
 - Enclose or cover building material storage areas.
 - Properly store materials such as paints and solvents.
 - Store dry and wet materials under cover, away from drainage areas.
 - Avoid mixing excess amounts of fresh concrete or cement on-site.
 - Perform washout of concrete trucks offsite or in designated areas only. Washouts must be emptied when reaching 75% of being filled.
 - 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.

- Storm Water Pollution Prevention Plan (SWPPP) 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 shall be reestablished before the work recommences.
 - 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 using a SWPPP amendment.
 - 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 needed as the project progresses, and plans of these changes submitted for approval by the engineer of record and the governing agency using a SWPPP amendment.

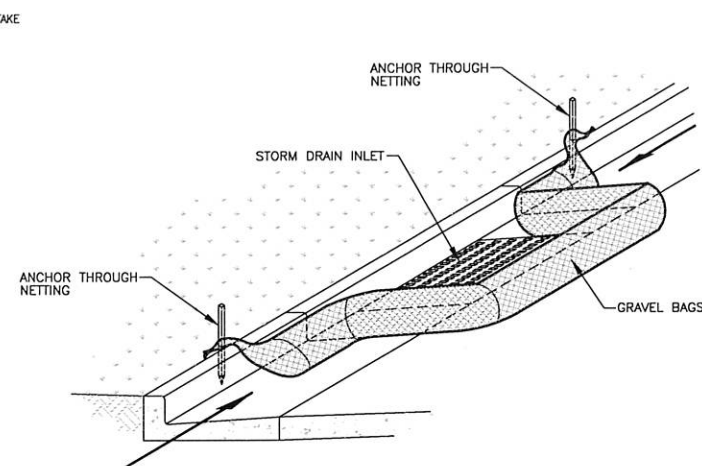
- Conduct a minimum of one inspection of the erosion and sediment controls every two weeks. Maintain documentation on site.
 - Part III.D.4 of general permit UTR300000 identifies the minimum inspection requirements.
 - Part III.D.4.C identifies the minimum inspection report requirements.
 - Failure to complete and/or document storm water inspections is a violation of part III.D.4 of Utah General Permit UTR 300000.
- Portable toilets shall be set back a minimum of 10 feet from the back of any curb line and/or 10 feet from any storm drain inlet. All portable toilets shall be properly staked to prevent tip over or spillage.



Perspective View



Section



Inlet Box Protection

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.

Slope Steepness (%)	Max. Slope Length (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 cut 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 fence 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.

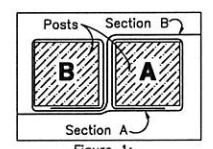
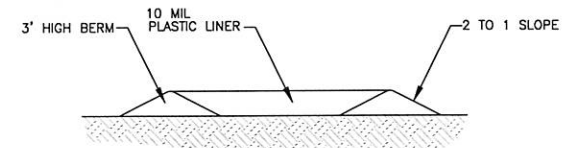


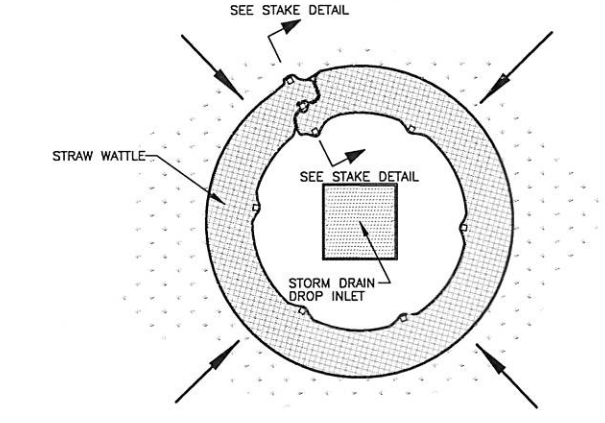
Figure 1: Top View of Roll-to-Roll Connection

FIELD ASSEMBLY:
*Excavate a minimum 15.2cm x 15.2cm (6"x6") trench at the desired location.
*Drive wooden posts, or steel posts with fastening projections, against the downstream wall of the trench. Maximum post spacing should be 2.4-3.0m (8-10ft). Post spacing

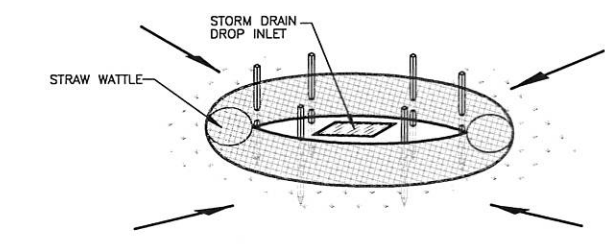
Silt Fence Detail



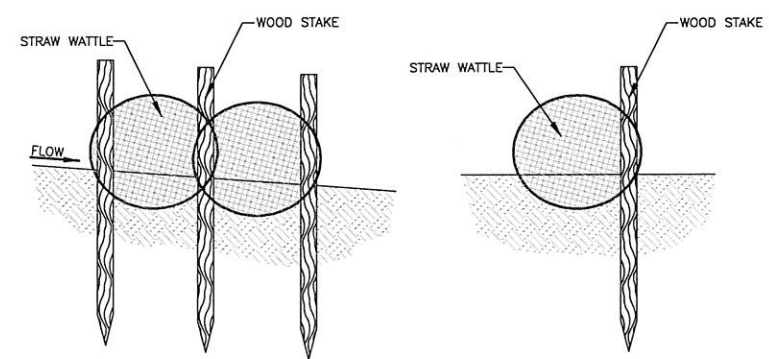
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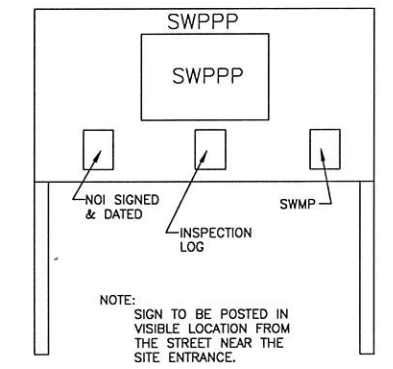
Plan View



Drop Inlet Protection

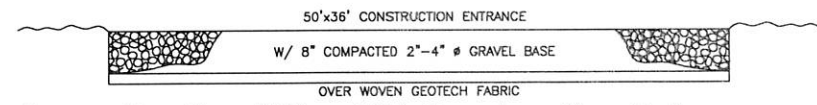


Stake Detail



Sample SWPPP Board (4'x8' Sheet of Plywood)

SCALE: NONE



Cross Section 50' x 20' Construction Entrance

Concrete Washout Area w/ 10 mil Plastic Liner

SCALE: NONE

To be emptied when 3/4 filled

Reeve & Associates, Inc.
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WWW.REEVE-ASSOCIATES.COM
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS	DESCRIPTION
DATE	

Henry Flats Cluster Subdivision
WEST WEBER CITY, WEBER COUNTY, UTAH
Storm Water Pollution Prevention Plan Details

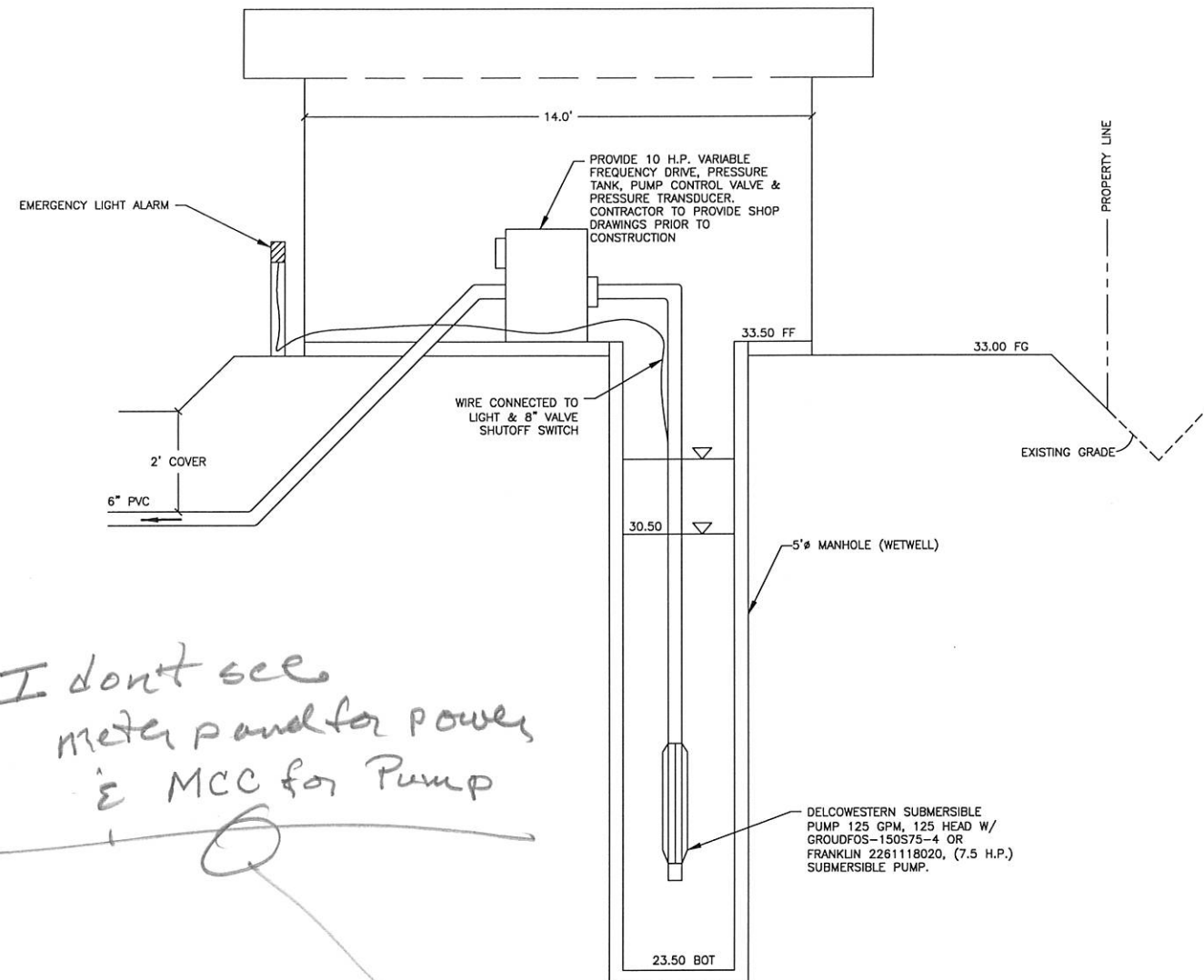
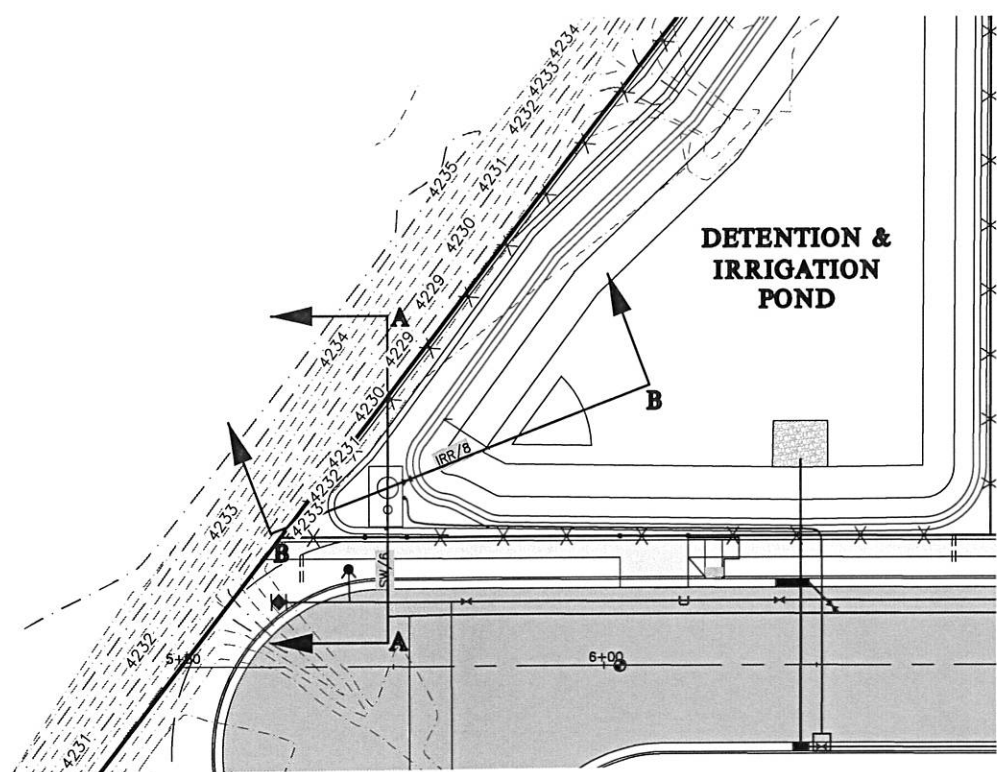
REGISTERED PROFESSIONAL ENGINEER
375328
J. NATE REEVE
STATE OF UTAH

Project Info.
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Drafter: C. KINGSLEY
Begin Date: NOVEMBER, 2015
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Number: 6272-01

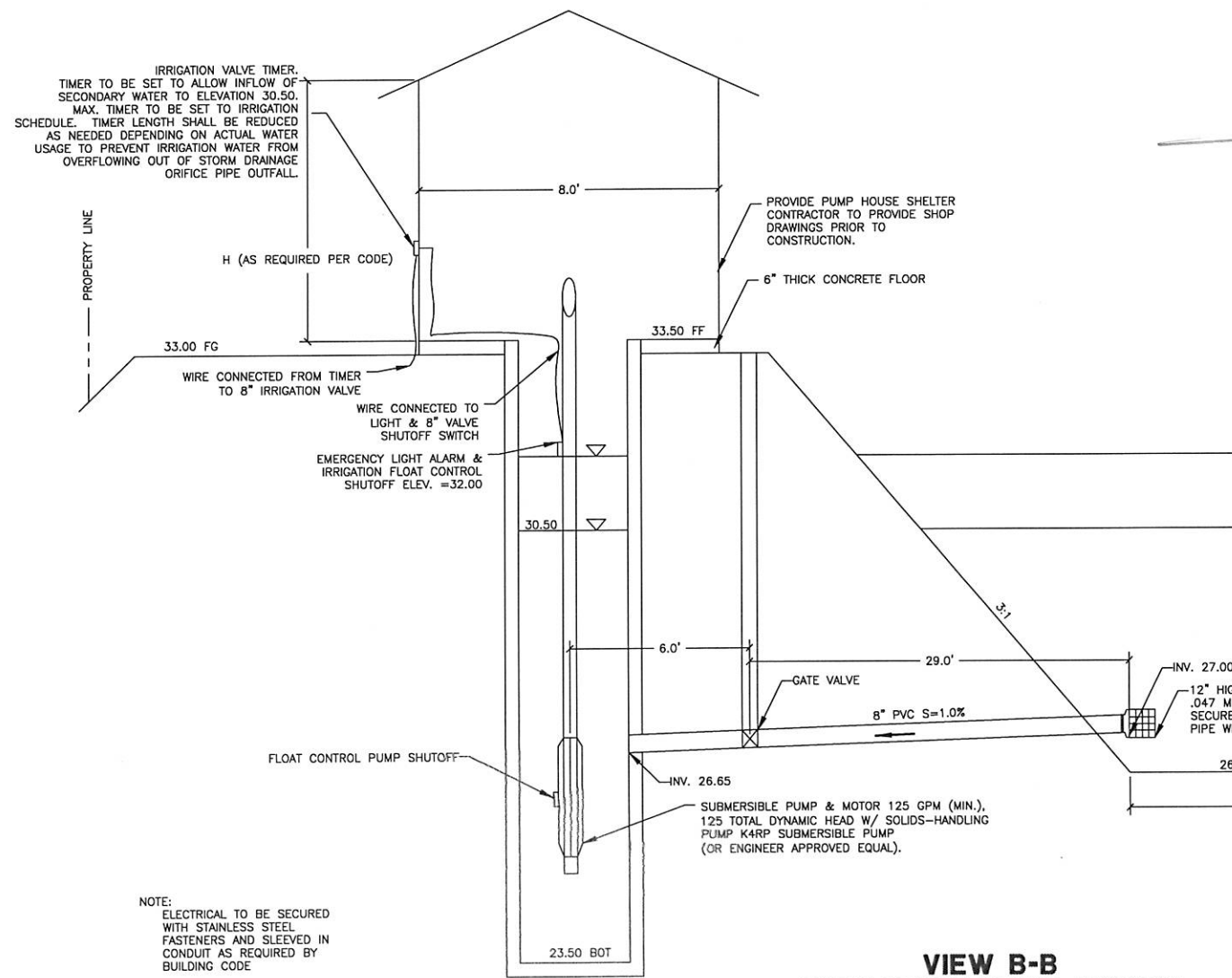
Sheet **9** of **12** Sheets

Reeve & Associates, Inc. - Solutions You Can Build On

Revised: 07-12-16



I don't see meter panel for power & MCC for Pump



Should have Building & Safety Plan check this

Reeve & Associates, Inc.
IRA
 REGISTERED PROFESSIONAL ENGINEER
 375328
 J. NATE REEVE
 STATE OF UTAH

REVISIONS	DESCRIPTION
DATE	

Reeve & Associates, Inc. - Solutions You Can Build On

Henry Flats Cluster Subdivision
 WEST WEBER CITY, WEBER COUNTY, UTAH

Irrigation Pump House Details

Revised: 07-12-16

REGISTERED PROFESSIONAL ENGINEER
 375328
 J. NATE REEVE
 STATE OF UTAH

Project Info.
 Engineer: J. NATE REEVE
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 Begin Date: NOVEMBER, 2015
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Sheet **12**
 10 Sheets

REVISIONS	DESCRIPTION

Henry Flats Cluster Subdivision
 WEST WEBER CITY, WEBER COUNTY, UTAH



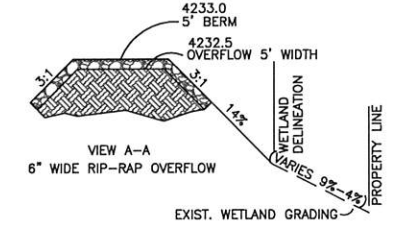
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 Number: 9272-01

Sheet **11** of **12** Sheets

Detention Basin Grading Plan

Revised: 07-12-16

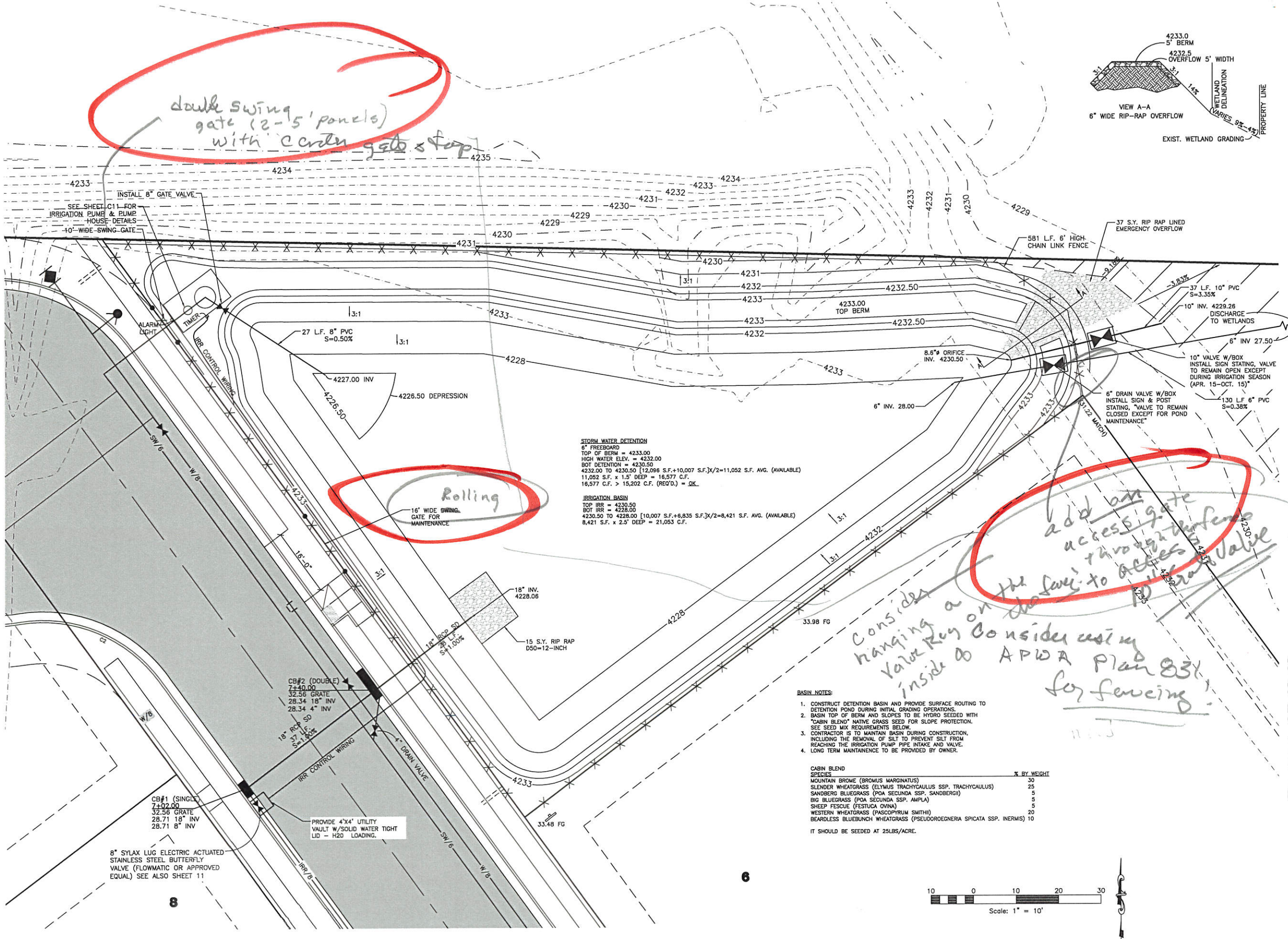
sheet 12?



double swing gate (2-5' panels) with center gate & top

Rolling

add an access gate through the fence to access the valve
Consider hanging a Valve Key on the fence inside of APWA Plan 831 for fencing!



Reeve & Associates, Inc. - Solutions You Can Build On