## **Project Narrative/Notes/Revisions**

1) 3/18/13 CA - DESIGN CHANGES.

2) 6/24/13 CA - COUNTY ENGINEERS/ROAD WAY CHANGES.

3) 7/3/13 RH - COUNTY ENGINEERS/ROAD WAY CHANGES. 4) 8/16/13 RH - COUNTY ENGINEERS COMMENTS. 5) 9/19/13 RH - COUNTY ENGINEERS COMMENTS.

6) 10/21/13 RH - SEWER SYSTEM REVISIONS. 7) 11/22/13 RH - COUNTY COMMENTS. 8) 12/13/13 RH - COUNTY COMMENTS.

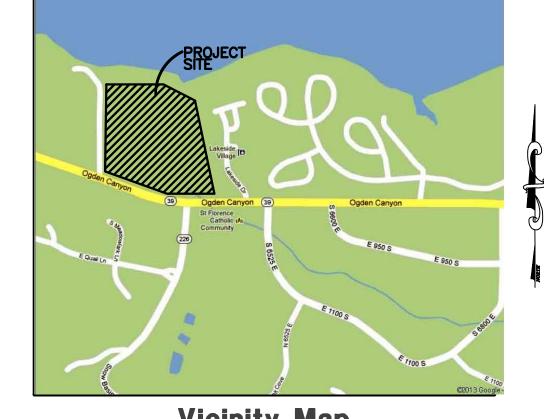
9) 4/30/14 RH - SD OUTLET CHANGES.

## EDGEWATER ESTATES

Phase-1
Improvement Plans
WEBER COUNTY, UTAH

AUGUST 2013

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF REEVE & ASSOCIATES, INC., 920 CHAMBERS STREET, SUITE #14, OGDEN, UTAH 84403, AND SHALL NOT BE PHOTOCOPIED, RE-DRAWN, OR USED ON ANY PROJECT OTHER THAN THE PROJECT SPECIFICALLY DESIGNED FOR, WITHOUT THEIR CONSENT.





## **Sheet Index**

Sheet 1 - Cover/Index Sheet

**Sheet 2 - Demolition Plan** 

Sheet 2 - Demontion Plan
Sheet 3 - Edgewater Drive 20+00.00 - 24+49.74
Sheet 4 - Edgewater Drive 24+49.74 - 29+50.00
Sheet 5 - Edgewater Court 15+00.00 - 21+00.00
Sheet 6 - Drainage & Grading Plan
Sheet 7 - Utility Plan
Sheet 8 - SD Calculations

**Sheet 9 - Details** 

Sheet 9.1 - Details **Sheet 10 - Sewer Lift Station** 

Sheet 11 - Wiring/Electrical Diagram
Sheet 12 - SWPPP

**Sheet 13 - SWPPP Details** 

### **General Notes**

. CONSTRUCTION STAKING TO BE PROVIDED BY REEVE & ASSOCIATES, INC. SCHEDULE SHALL BE APPROVED BY THE ENGINEER. PRIOR TO SAID APPROVAL, ALL IMPROVEMENT DRAWINGS SHALL BE RESUBMITTED AND APPROVED BY THE

3. THE CONTRACTOR SHALL LOCATE, RETAIN AND PROTECT ALL EXISTING UTILITIES UNLESS OTHERWISE DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE. 4. THE CONTRACTOR SHALL MAINTAIN 10 FOOT HORIZONTAL AND 18 INCH VERTICAL SEPARATION, CULINARY WATER LINES, SANITARY SEWER, AND STORM DRAIN LINES. 5. THE CONTRACTOR SHALL INSTALL ALL SANITARY SEWER MAINS, SERVICE LINES AND STORM DRAIN LINES PRIOR TO INSTALLING ANY WATER SYSTEM IMPROVEMENTS. ADJUST WATER MAIN DEPTH PER JURISDICTION AS REQUIRED TO AVOID SANITARY SEWER SERVICE LINES.

6. CONTRACTOR SHALL NOTIFY ARCHITECT OF ALL UTILITY CONFLICTS UPON DISCOVERY. 7. CONTRACTOR SHALL COORDINATE CONSTRUCTION AND INSTALLATION OF ELECTRICAL, TELEPHONE, NATURAL GAS AND CABLE TV SERVICES WITH THE RESPECTIVE UTILITY COMPANY. OWNER SHALL PAY ALL ASSOCIATED UTILITY COMPANY

8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SLOPE AND CONSTRUCTION OF CONNECTING SEWER PIPING. 9. CONTRACTOR SHALL BE RESPONSIBLE OF PROPER BACKFILLING, COMPACTING, AND PAVEMENT RESTORATION. 10. CONTRACTOR TO OBTAIN ALL NECESSARY PERMIT(S) AND COMPLY WITH ALL

PERMITTING REQUIREMENTS. 11. ALL THRUST BLOCKS SHALL BE POURED IN PLACE AGAINST UNDISTURBED SOIL. ALL VALVES, FITTINGS, AND APPURTENANCES TO BE BLOCKED. 12. ALL EXPOSED NUTS AND BOLTS WILL BE COATED WITH A NON-OXIDE WASH AND WRAPPED IN 8-MIL POLYETHYLENE AS DIRECTED BY GEOTECHNICAL STUDY. 13. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ACCORDING TO GOVERNING AGENTS STANDARDS. WET DOWN DRY MATERIALS AND RUBBISH TO

PREVENT BLOWING. 14. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT SURFACE IMPROVEMENTS DURING CONSTRUCTION. 15. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY SETTLEMENT OF OR DAMAGE TO EXISTING UTILITIES FOR WARRANTY PERIOD. 16. ALL EXISTING ASPHALT SHALL BE SAW CUT IN NEAT STRAIGHT LINES BY THE CONTRACTOR PRIOR TO EXCAVATION. 17. CONTRACTOR TO INSTALL MAGNETIC LOCATING TAPE CONTINUOUSLY OVER ALL

18. THE CONTRACTOR IS RESPONSIBLE TO FURNISH ALL MATERIALS TO COMPLETE 19. TRAFFIC CONTROL IS TO CONFORM TO THE CURRENT CITY AND/OR STATE TRANSPORTATION ENGINEERS' MANUAL. 20. A UPDES GENERAL CONSTRUCTION STORM WATER PERMIT MUST BE OBTAINED

21. ALL WORK SHALL CONFORM TO WEBER COUNTY STANDARD SPECIFICATIONS AND

BY THE GENERAL CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.

0

## **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.

Contact:

REESE HOWELL, JR. CELTIC BANK 268 S. STATE STREET, UT. 84111 PH: (801) 363-6500

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

EDGEWATER BEACH Blue Stakes Location Center Number: <u>5917-15</u>

Sheet Sheets

. NATE REEVE

J. NATE REEVE, P.E.

R. HANSEN

JULY 09, 2012

RESORT

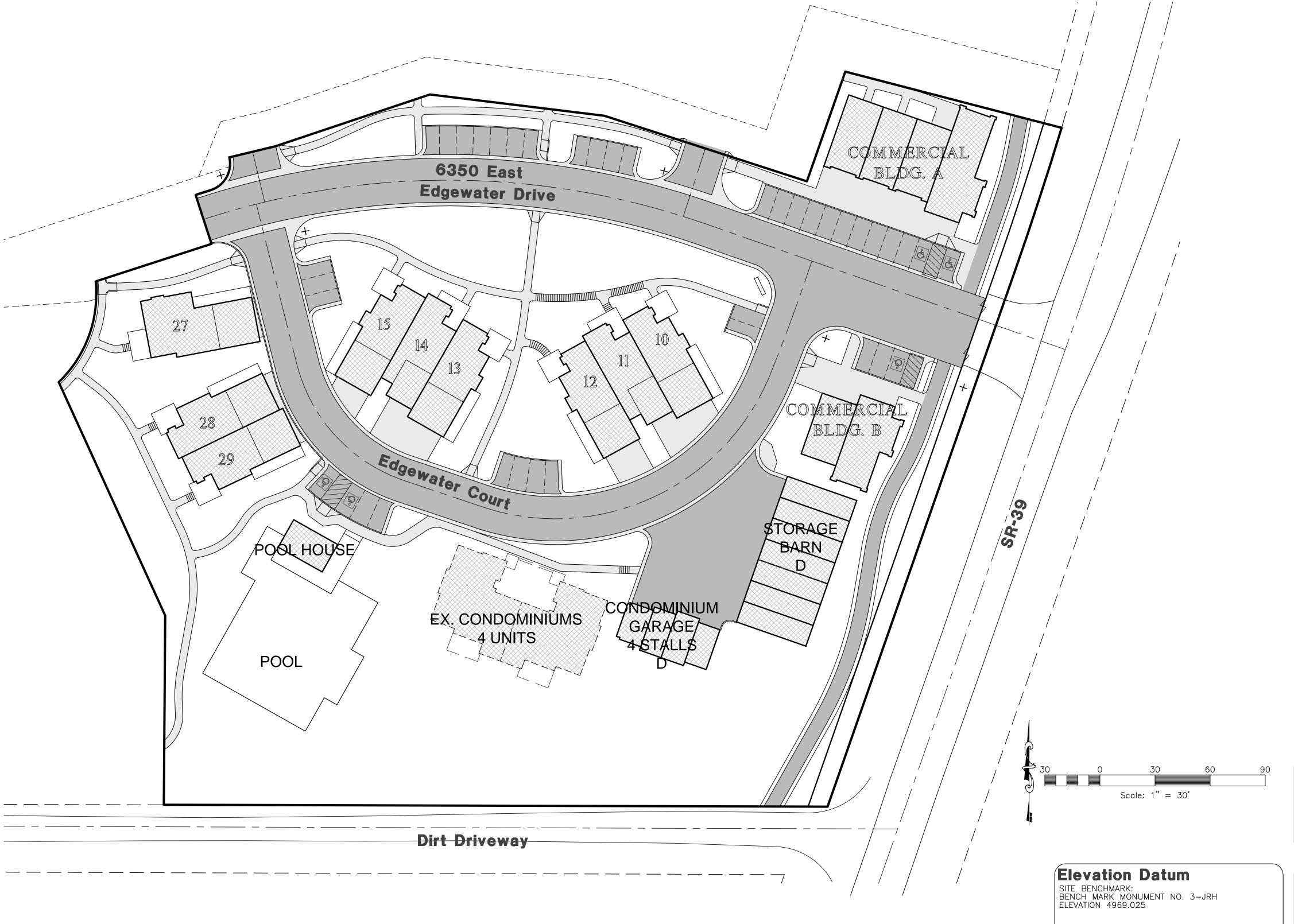
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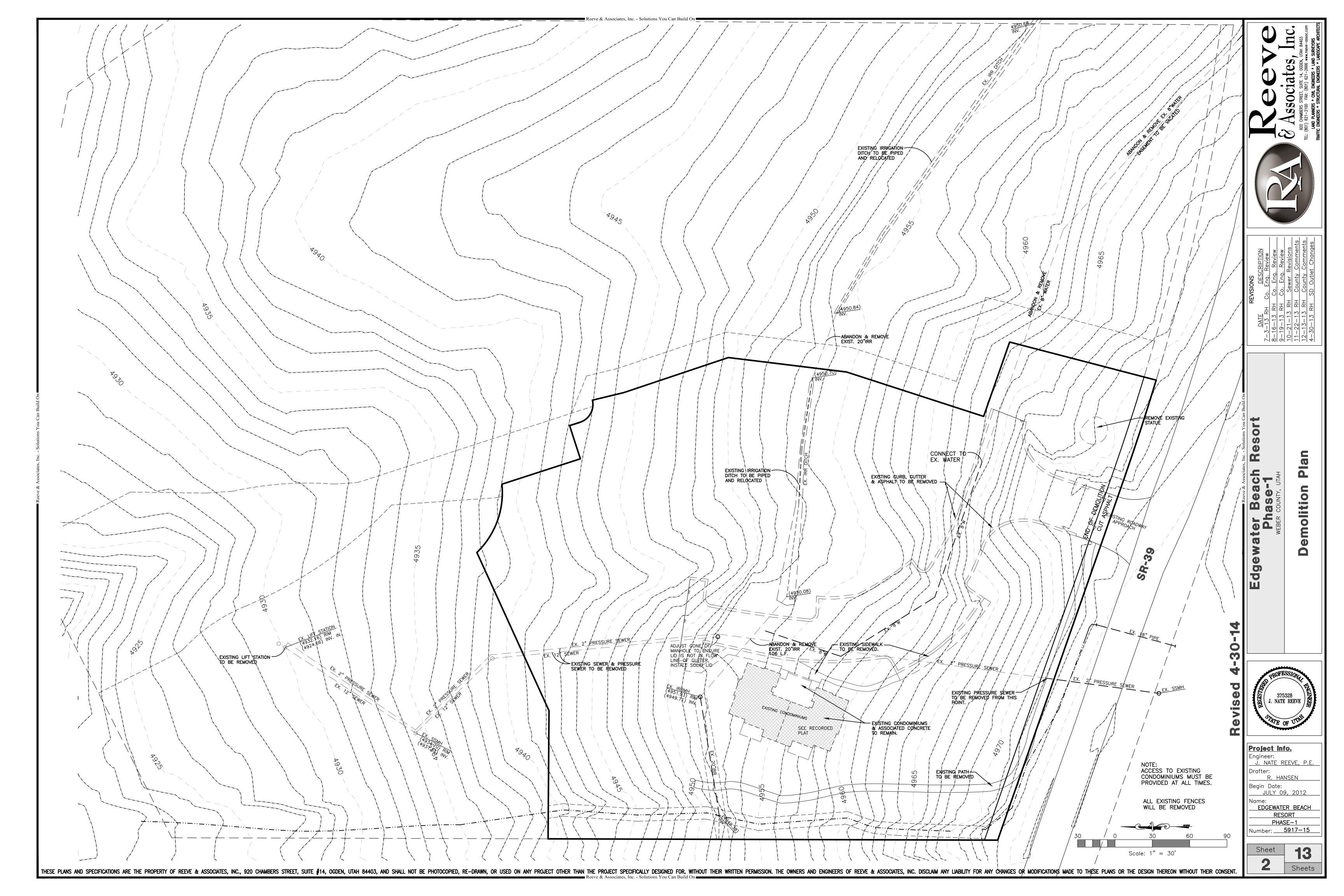
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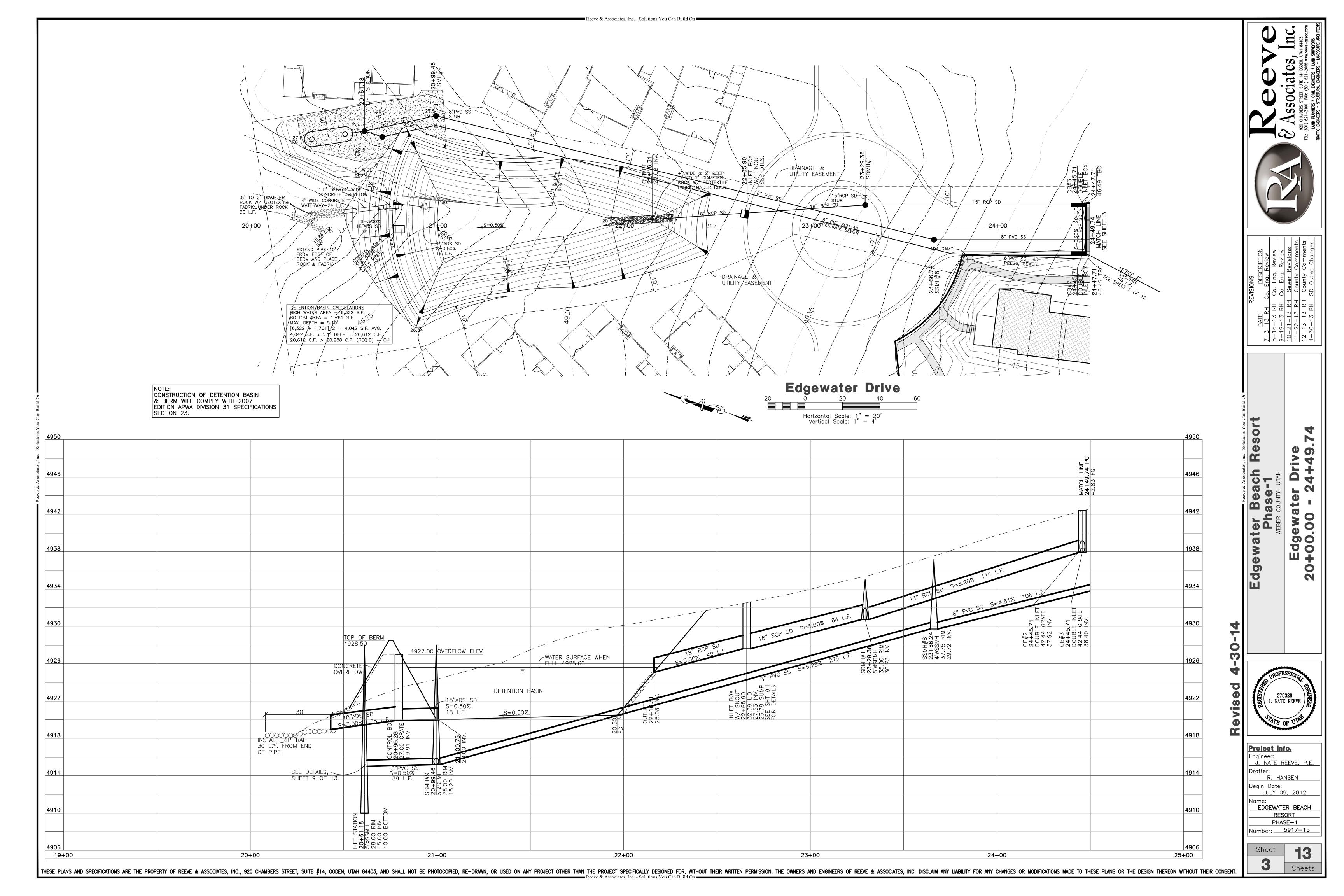
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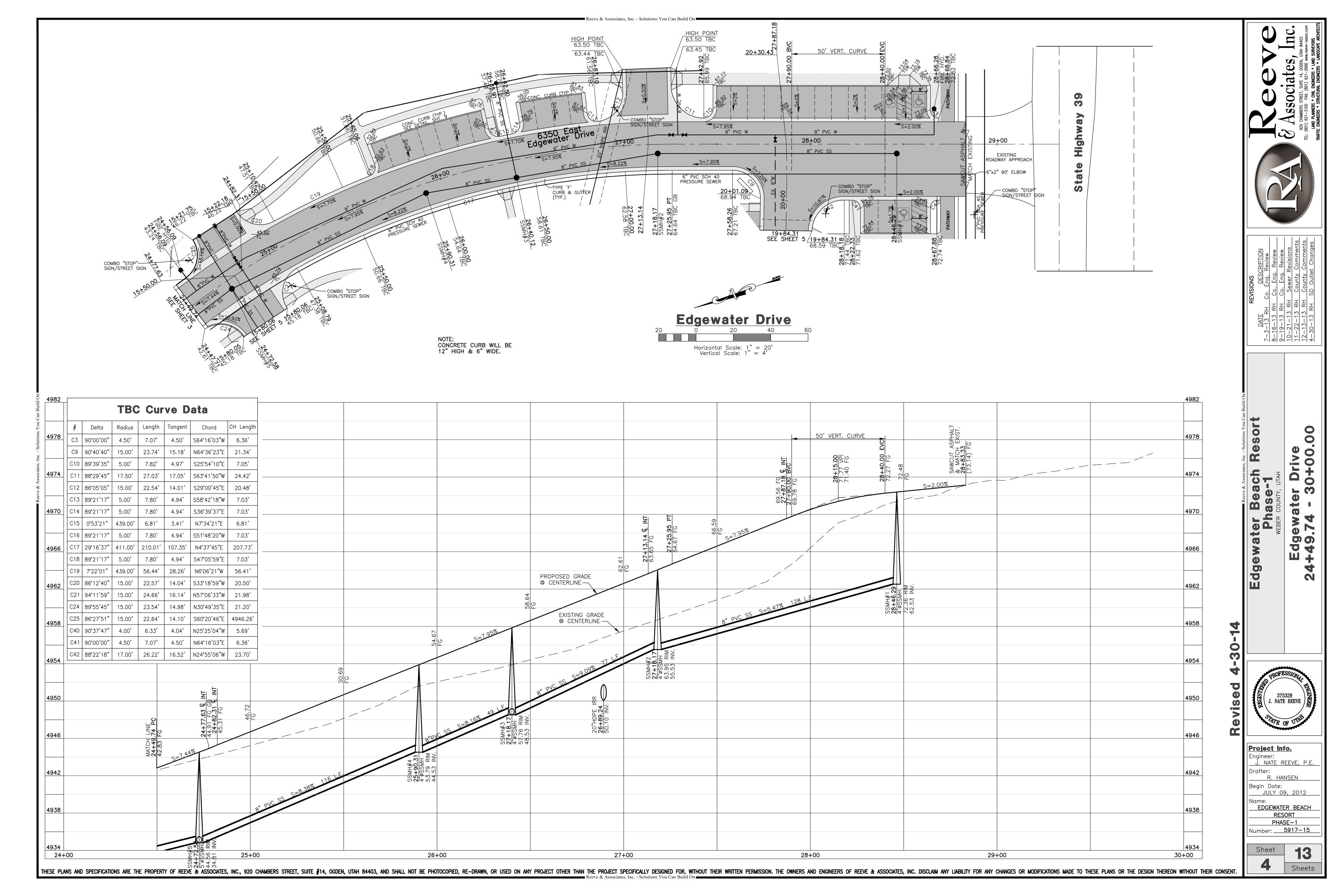
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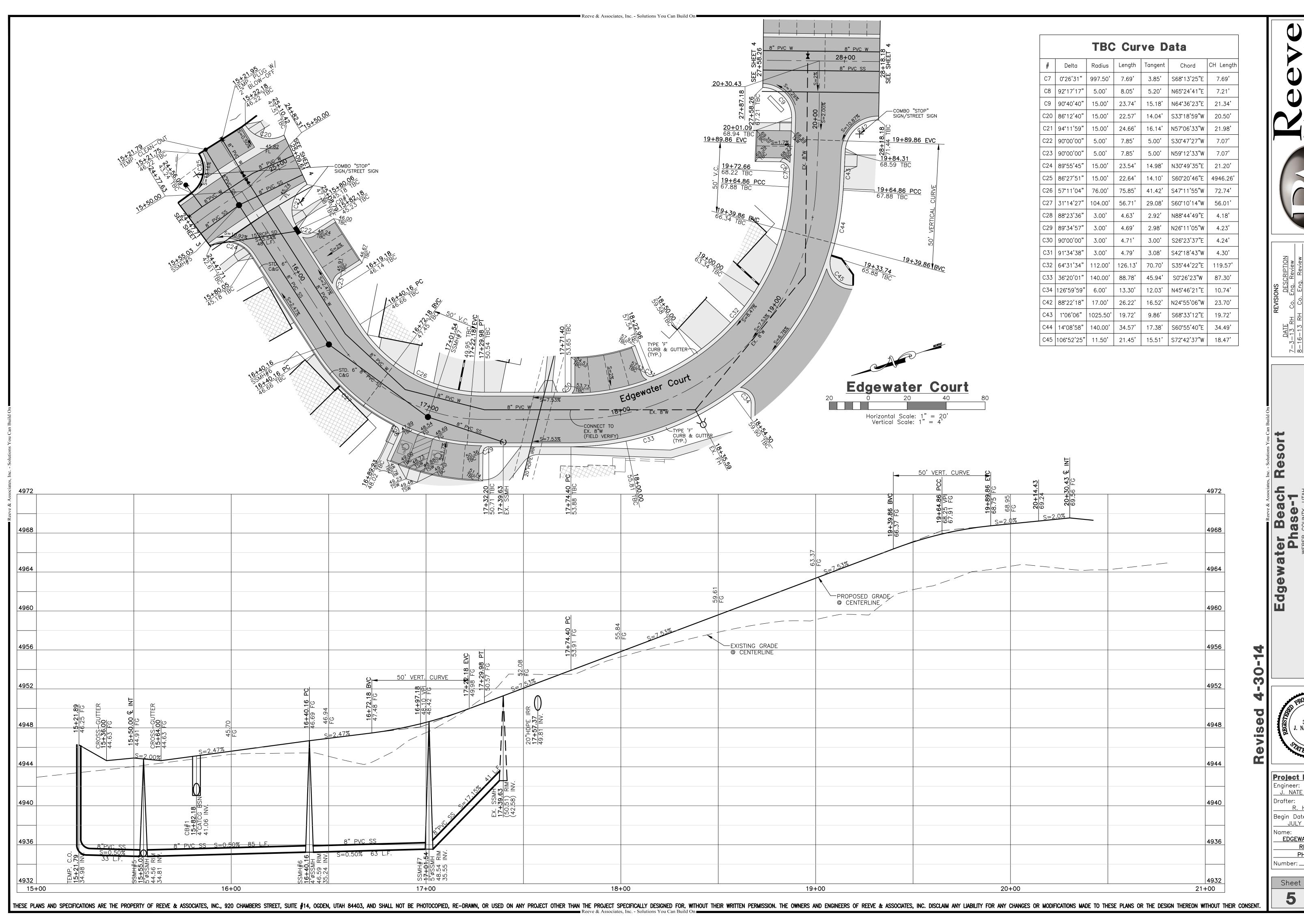
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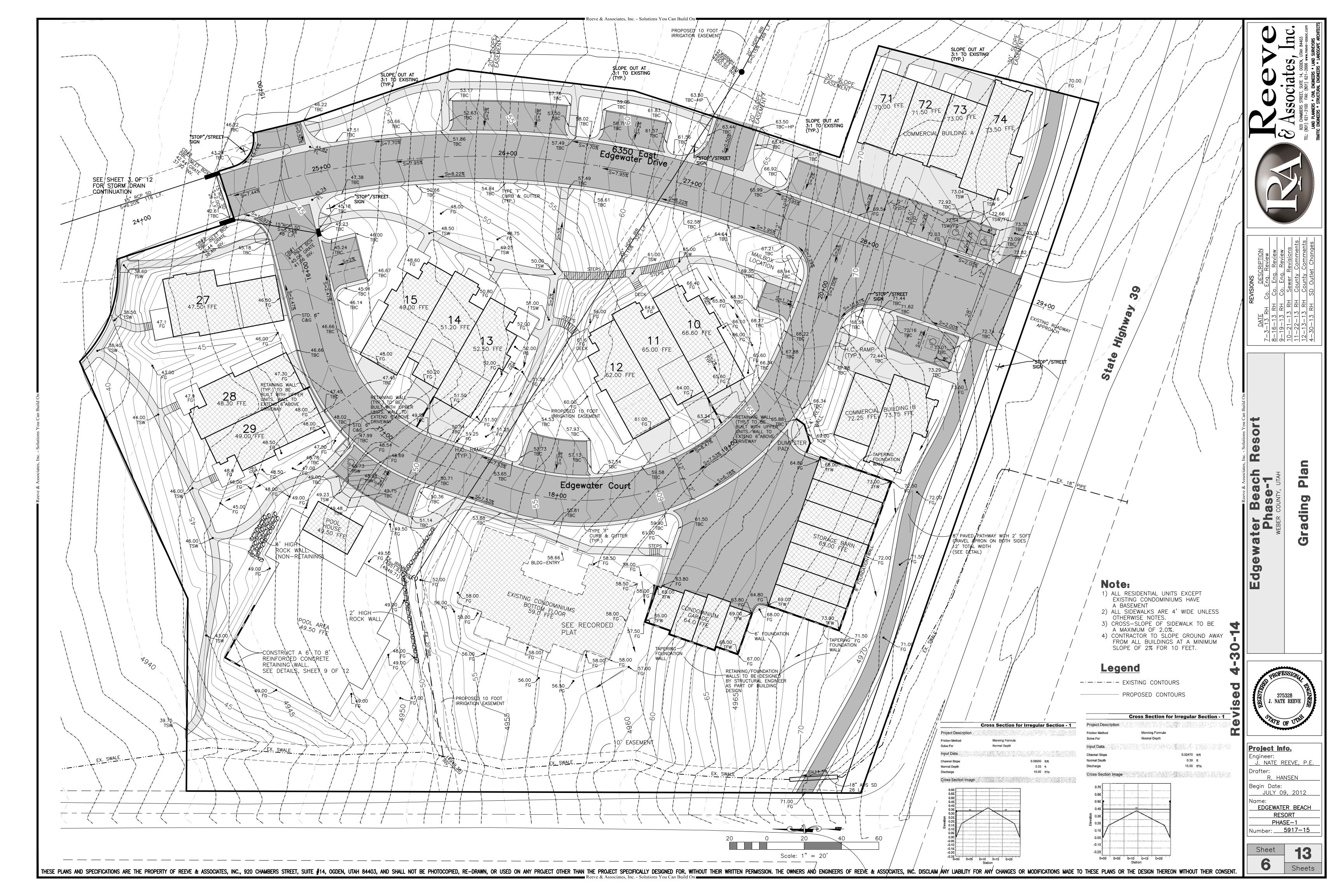


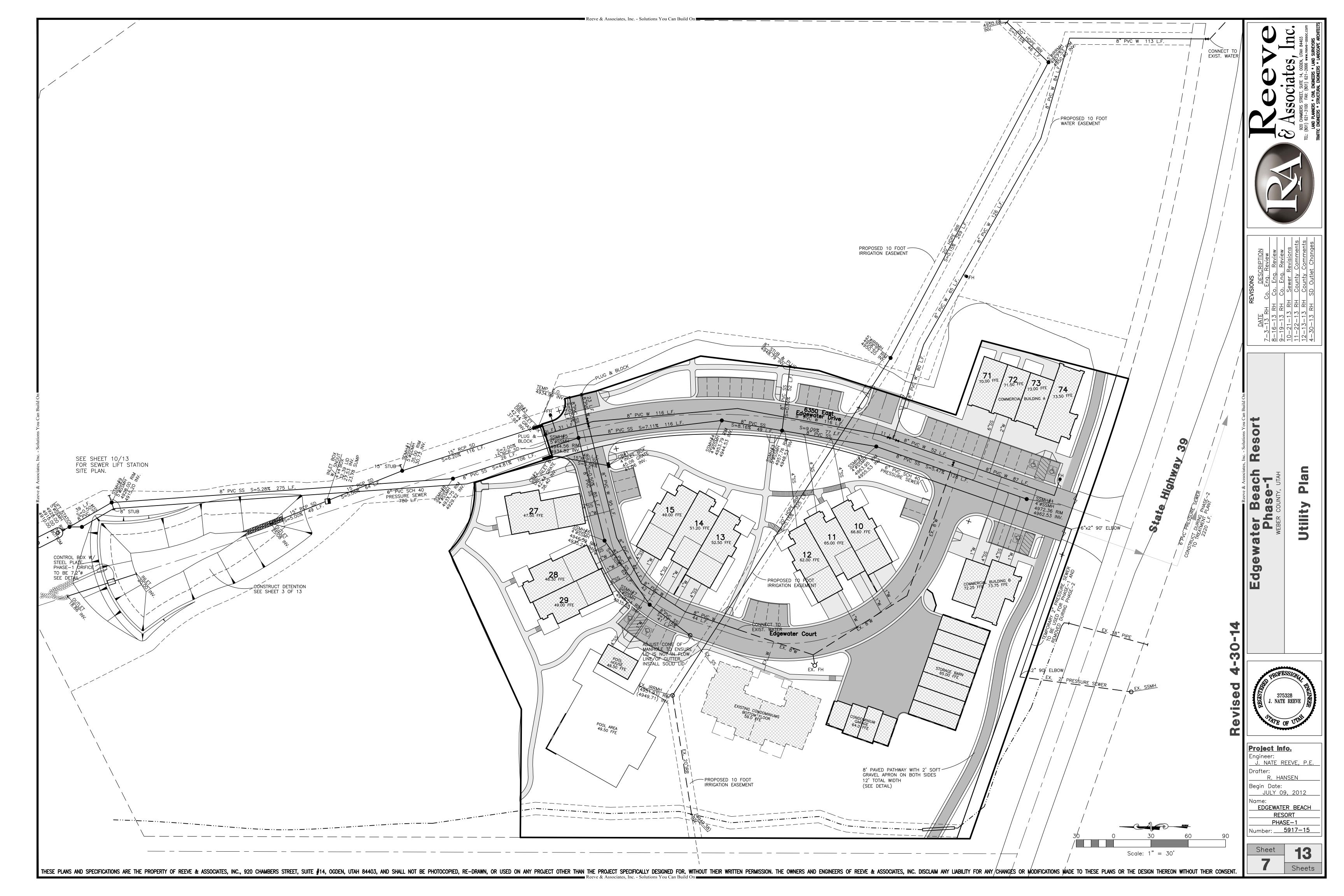




Project Info. J. NATE REEVE, P.E. JULY 09, 2012 EDGEWATER BEACH RESORT PHASE-1 Number: 5917-15

Sheet Sheets





	C	Cumulative	Volume For D	etention	Pond		
		Edgewater I	Estates-Phase	∍ 1			
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	A =	3.80					
C	પ્રે(out) =	2.43					
	No. No. of Co.	Poser		200	40.040 Sh 2860		
	time	time	i i	Q	Vol. in	Vol. out	Difference
	(min)	(sec)	(in./hr.)	(cfs)	(cf)	(cf)	(cf)
	0	0	0.00	0.00	0.00	0.00	0.00
	5	300	7.55	13.50	4050.08	730.46	3319.62
	10	600	5.75	10.28	6168.99	1460.92	4708.07
	15	900	4.75	8.49	7644.18	2191.38	5452.80
	30	1800	3.20	5.72	10299.53	4382.76	5916.77
	60	3600	1.98	3.54	12745.67	8765.51	3980.16
	120	7200	1.14	2.04	14676.83	17531.03	-2854.20
	180	10800	0.79	1.41	15198.24	26296.54	-11098.30
	360	21600	0.44	0.79	17110.10	52593.08	-35482.99
	1440	86400	0.16	0.29	24718.87	210372.34	-185653.46
		ŀ	Huntsville, UT				
		ľ	NOAA Atlas 1	4			

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	Cumulative	Volume For I	Detention	Pond		
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C =	0.47					
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(min)	(sec)	(in./hr.)	(cfs)	(cf)	(cf)	(cf)
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5	300	7.55	46.26	13878.25	2500.78	11377.46
10	600	5.75	35.23	21139.05	5001.56	16137.49
15	900	4.75	29.10	26194.04	7502.35	18691.69
30	1800	3.20	19.61	35293.02	15004.69	20288.33
60	3600	1.98	12.13	43675.12	30009.39	13665.73
120	7200	1.14	6.99	50292.56	60018.78	-9726.22
180	10800	0.79	4.82	52079.27	90028.17	-37948.90
360	21600	0.44	2.71	58630.54	180056.33	-121425.79
1440	86400	0.16	0.98	84703.26	720225.32	-635522.06
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NOAA Atlas 14

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	0+01		0.00		
	0+13		0.24		
Roughness Segment Definitions					
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pen Channel Weighting Method	Pavlovskii's Method				
Closed Channel Weighting Method	Pavlovskii's Method				
Results					
Iormal Depth		0.22	ft	*	
levation Range	0.00 to 0.50 ft				
low Area		1.23			
Vetted Perimeter		11.73			
lydraulic Radius		0.11			
op Width		11.33			
ormal Depth		0.22			
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Bentley Systems, Inc. Bentley FlowMaster V8i (SELECTseries 1) [08.11.01.03]

6/28/2013 11:19:47 AM 27 Siemons Company Drive Suite 200 W Watertown, CT 06795 USA +1-203-755-1666 Page 1 of 2

Velocity	4.64 ft/s
Velocity Head	0.33 ft
Specific Energy	0.55 ft
Froude Number	2.48
Flow Type	Supercritical
GVF Input Data	Environ Principal de la companya de
Downstream Depth	0.00 ft
Length	0.00 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	
Profile Headloss	0.00 ft
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.22 ft
Critical Depth	0.31 ft
Channel Slope	0.05000 ft/ft
Critical Slope	0.00698 ft/ft

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Worksheet for Irregular Section - 1

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Bentley Systems, Inc. Bentley FlowMaster V8i (SELECTseries 1) [08.11.01.03]

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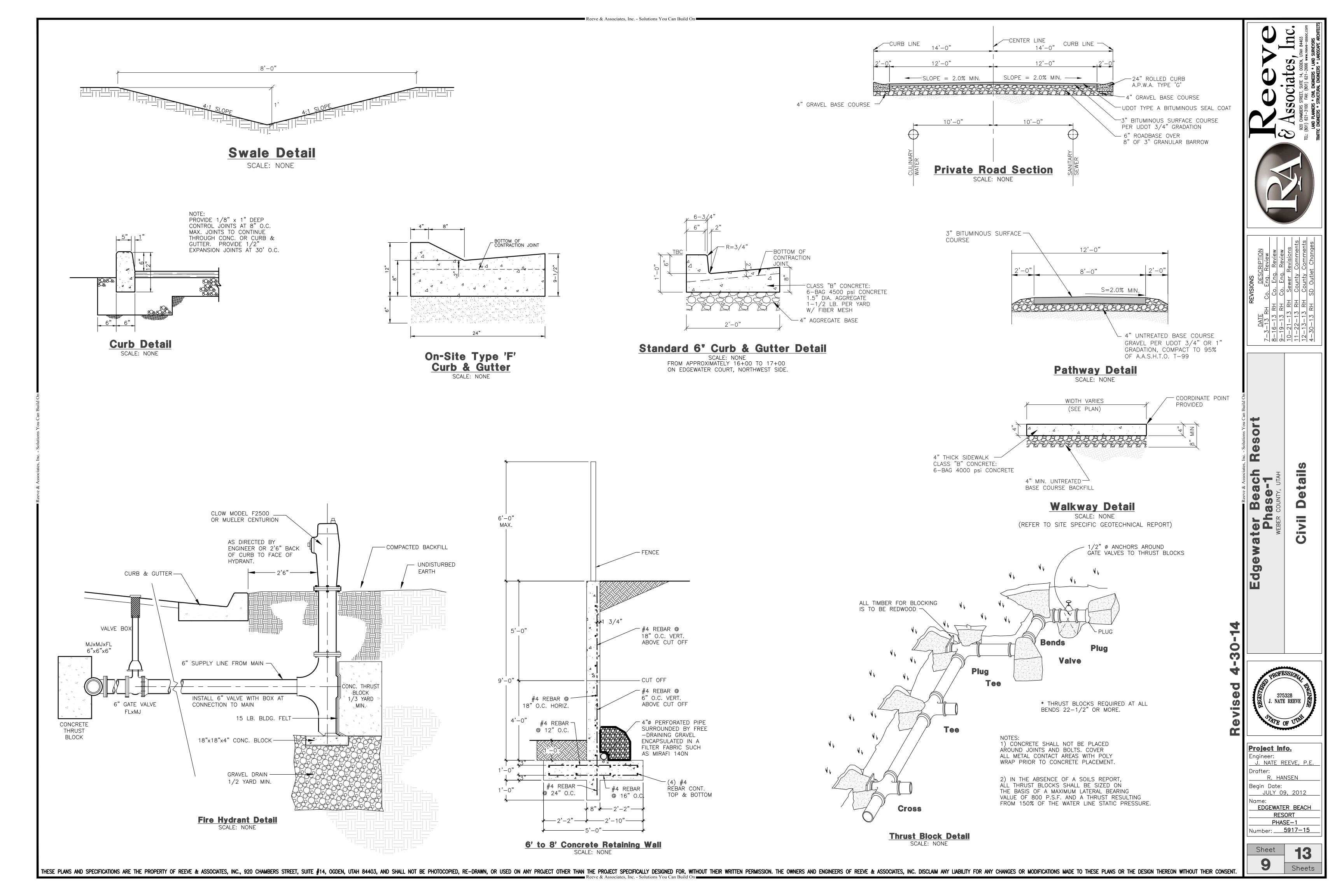
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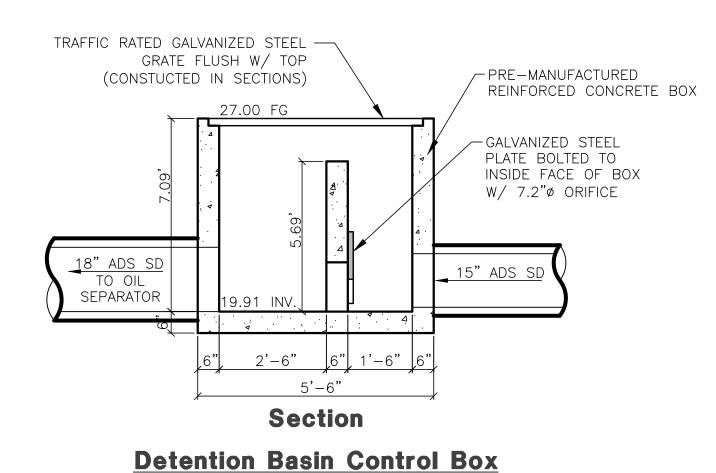
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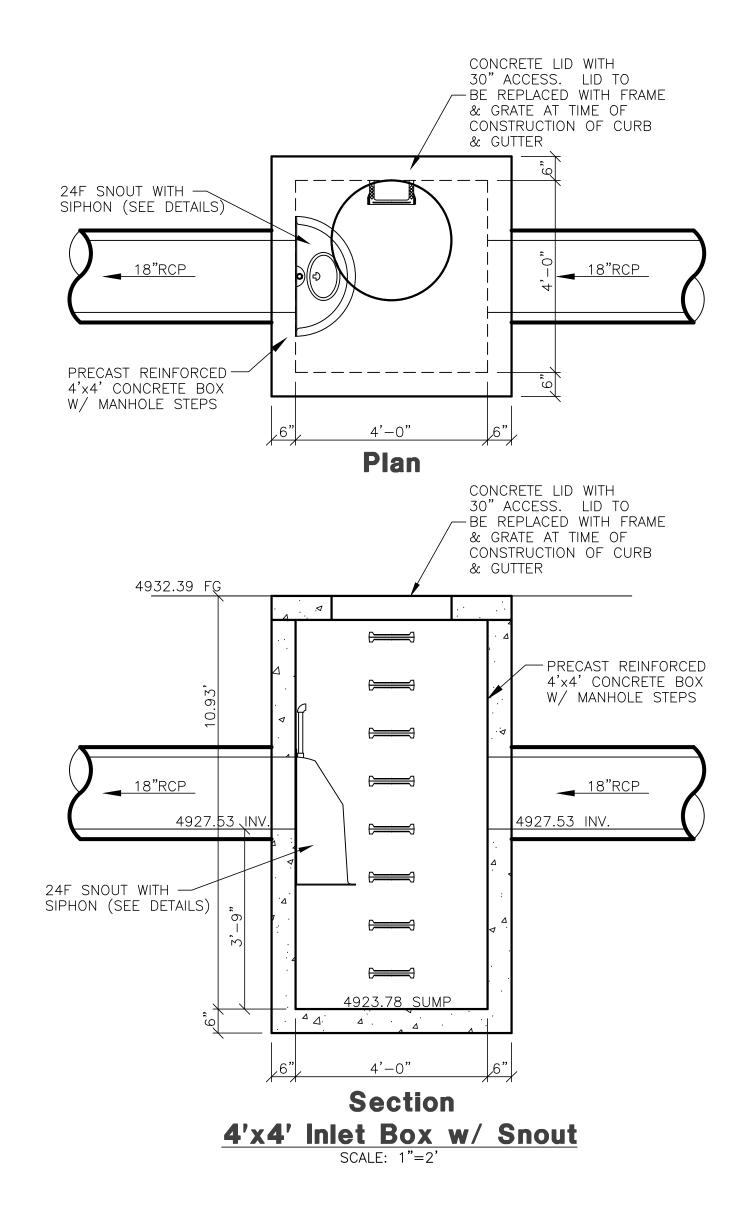
Project Info. <u>J. NATE REEVE, P.E.</u> Drafter: R. HANSEN Begin Date: JULY 09, 2012 EDGEWATER BEACH RESORT PHASE-1 Number: <u>5917–15</u>

> Sheet Sheets

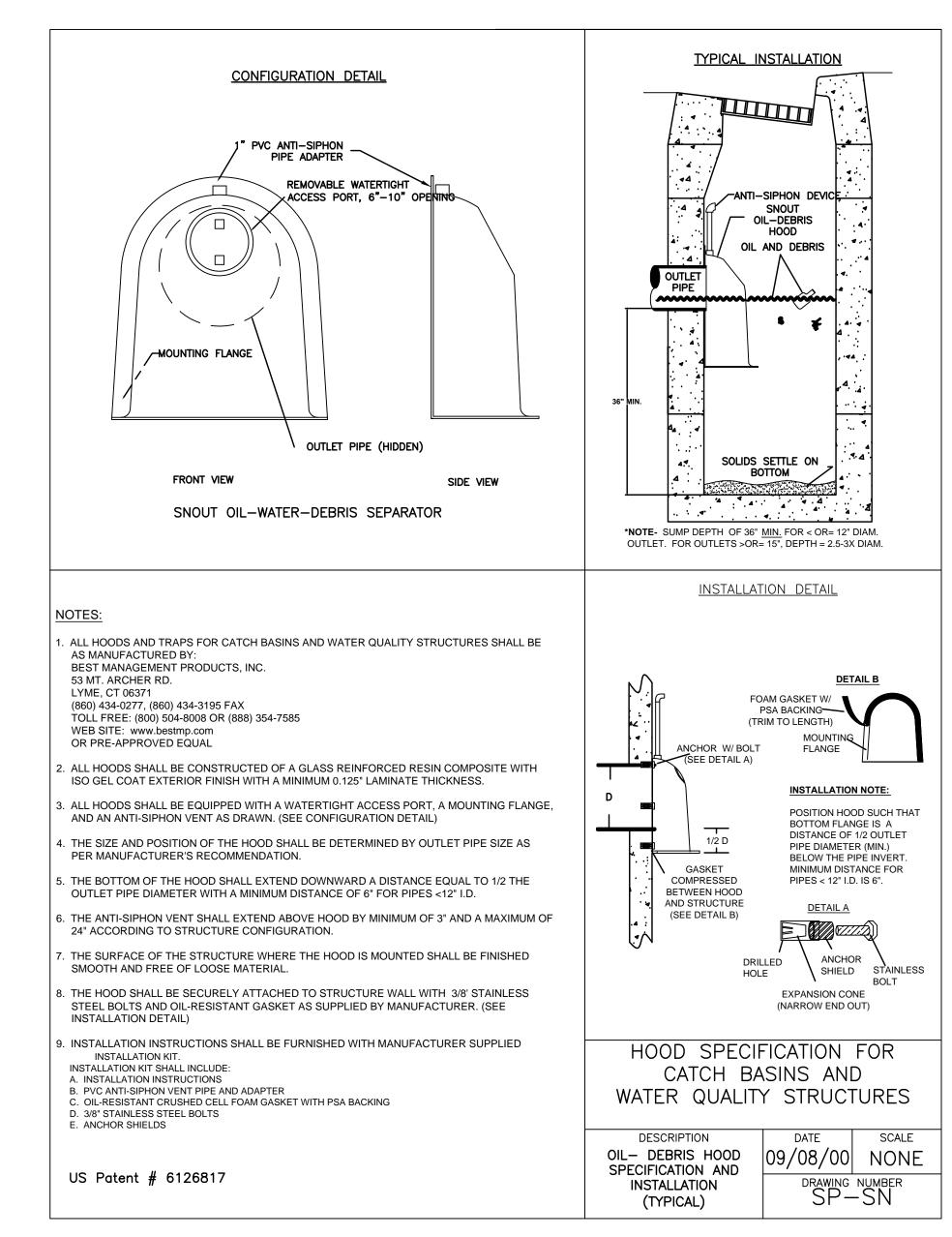
Bentley Systems, Inc. Bentley FlowMaster V8i (SELECTseries 1) [08.11.01.03]



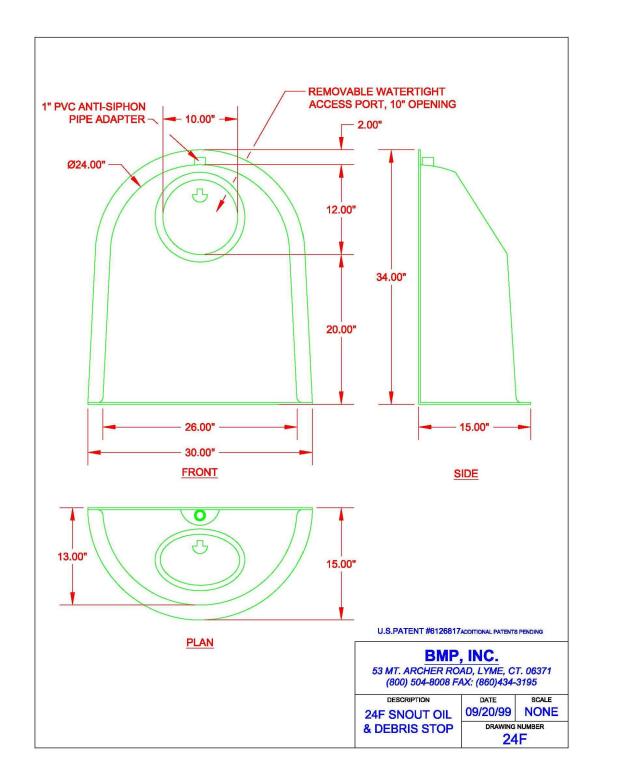




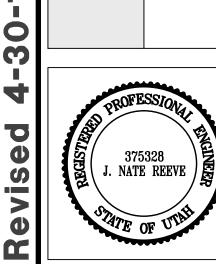
Reeve & Associates, Inc. - Solutions You Can Build On



## **Snout Installation Specifications**







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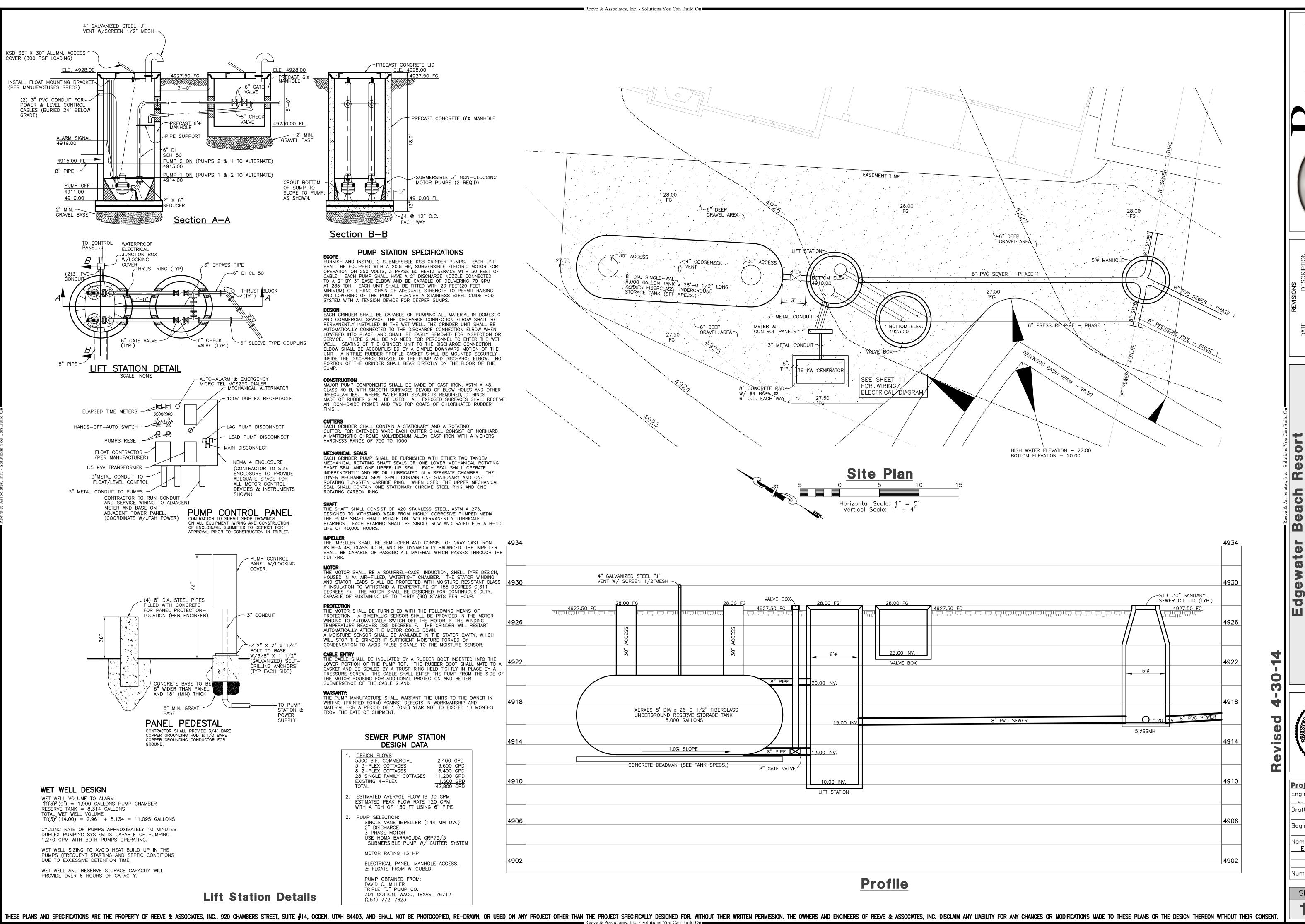
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**Details** 

Project Info. <u>J. NATE REEVE, P.E.</u> Drafter: R. HANSEN Begin Date: JULY 09, 2012 EDGEWATER BEACH RESORT PHASE-1 Number: 5917-15

> Sheet 9.1 Sheets

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> 375328 NATE REEVE

<u>Project Info.</u> J. NATE REEVE, P.E. Drafter: R. HANSEN Begin Date: JULY 09, 2012 EDGEWATER BEACH RESORT PHASE-1

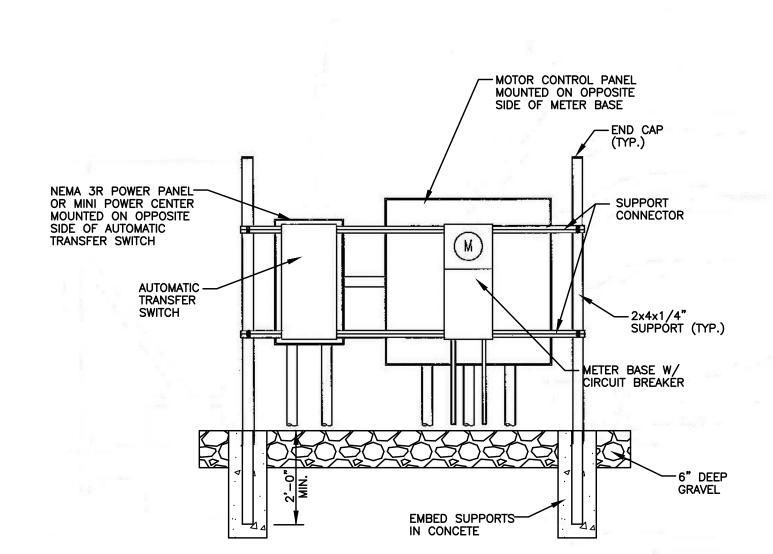
Sheet Sheets

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Power One-Line Diagram



Meter Enclosure and Panel Elevation



7-3-13 RH Co. Eng. Review
8-16-13 RH Co. Eng. Review
9-19-13 RH Co. Eng. Review
10-21-13 RH Sewer Revisions
11-22-13 RH County Comments
12-13-13 RH County Comments
12-13-13 RH SD Outlet Changes

ctrical Diagram

Edgewater Beach R
Phase-1
WEBER COUNTY, UTAH

PROFESSIONAL STATE OF UTINITAL OF UTINITAL

Project Info.
Engineer:
J. NATE REEVE, P.E.
Drafter:
R. HANSEN
Begin Date:
JULY 09, 2012
Name:
EDGEWATER BEACH
RESORT
PHASE—1

Number: 5917-15

Sheet 13
Sheets

# EDGEWATER ESTATES

Phase-1
Storm Water Pollution Prevention Plan Exhibit

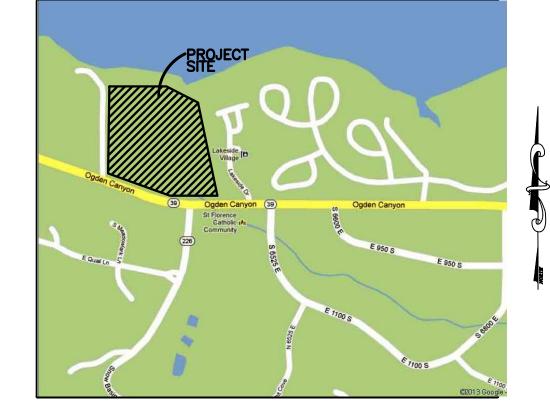
WEBER COUNTY, UTAH AUGUST 2013

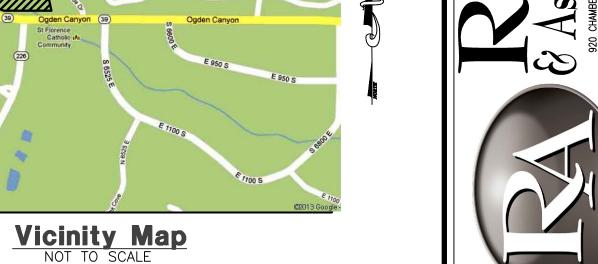
6350 East

Edgewater Drive

EX. CONDOMINIUMS

SILT FENCE — (SEE DETAIL)





ALL VEHICLES EXITING SITE TO PROCEED THROUGH SECONSTRUCTION PROTECTION OF TO PRODUCE AMOUNTS OF SECONS SECONS TRACKED ONTO PROADWAYS.

..WEBER COUNTY, UTAH ...AUGUST 2013

REESE HOWELL, JR. (801) 363-6500

..AUGUST 2013

**Construction Activity Schedule** 

PROJECT LOCATION.....PROJECT BEGINNING DATE..

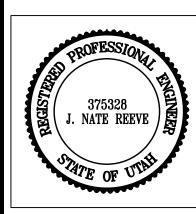
- BMP'S DEPLOYMENT DATE.

STORM WATER MANAGEMENT CONTACT / INSPECTOR...



0 0

S



Project Info. J. NATE REEVE, P.E. Begin Date: JULY 09, 2012 EDGEWATER BEACH RESORT

PHASE-1 Number: 5917-15

Sheets

Scale: 1" = 30' - SPECIFIC CONSTRUCTION SCHEDULE INCLUDING BMP CONSTRUCTION SCHEDULE TO BE INCLUDED WITH SWPPP BY OWNER/DEVELOPER THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF REEVE & ASSOCIATES, INC., 920 CHAMBERS STREET, SUITE #14, OGDEN, UTAH 84403, AND SHALL NOT BE PHOTOCOPIED, RE-DRAWN, OR USED ON ANY PROJECT OTHER THAN THE PROJECT SPECIFICALLY DESIGNED FOR, WITHOUT THEIR CONSENT. 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 contaminates are found or generated, contact environmental engineer and contacts listed.

If any contaminates 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.

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:

a. 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.

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 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.

— 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, creaks, rivers, and other water bodies.

 Use phosphate-free, biodegradable soaps. Do not permit steam cleaning on—site.

Spill Prevention and Control

a. 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.

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

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,

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.

d. 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

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

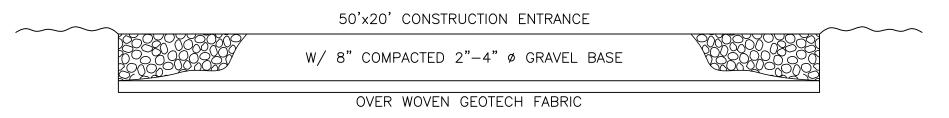
each working day and through weekends until removal of the system is approved. All loose soil and debris, which may create a potential hazard to offsite property, shall be removed from the site as directed by the Engineer of record of the governing agency.

The placement of additional devices to reduce erosion damage within the site is left to the discretion of the Engineer of Desilting basins may not be removed or made inoperable without the approval of the engineer of record and the

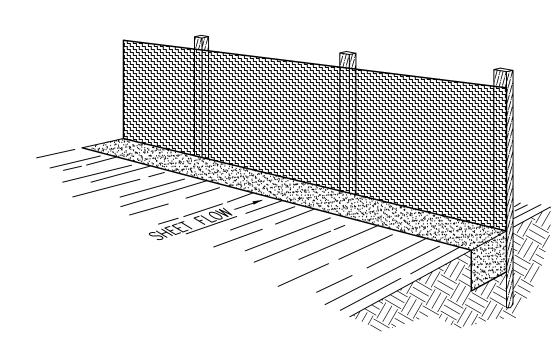
Erosion control devices will be modified as need as the project progresses, and plans of these changes submitted for approval by the engineer of record and the governing agency.

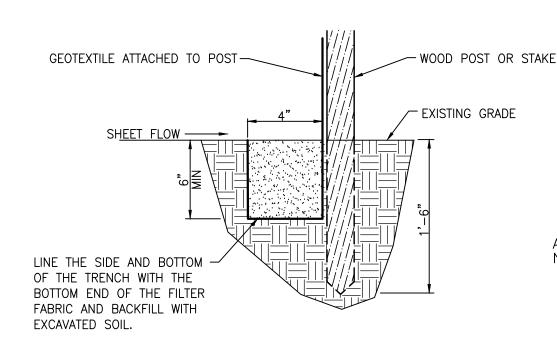
Conduct a minimum of one inspection of the erosion and sediment controls every two weeks. Maintain documentation on site. Part III.D.4 of general permit UTR300000 identifies the minimum inspection requirements.

Part II.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



Cross Section 50' x 20' Construction Entrance





## **Section**

—2 TO 1 SLOPE

## **Perspective View**

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.

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TABLE 1:								
Recommended Ma:	ximum Slope Lengths							
for S	ilt Fence							
(Richardson & N	Middlebrooks, 1991)							
	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 be 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

\*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.

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

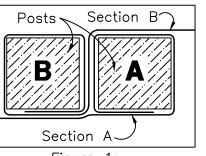
should generally be less than three (3) times \*If a steel or plastic mesh is required to rein force the geotextile, it shall have a minimum mesh opening of 15.2cm (6"). \*Fasten the mesh to the upslope side of the

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.

posts using heavy duty wire staples, tie wires

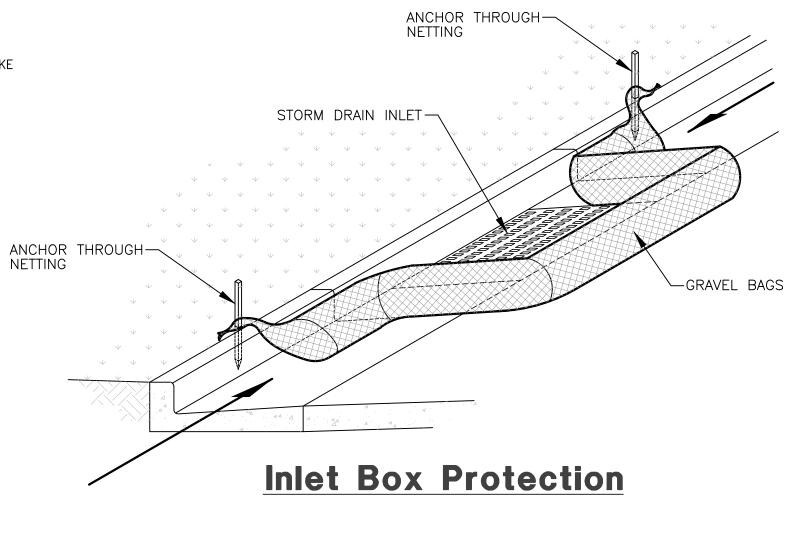
\*Inspect the silt fence daily during periods of rainfall, immediately after significant rainfall event and weekly during periods of no rainfall. Make any repairs immediately. \*When sediment deposits behind the silt fence are one—third of the fence height, remove and properly dispose of the silt accumulations.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

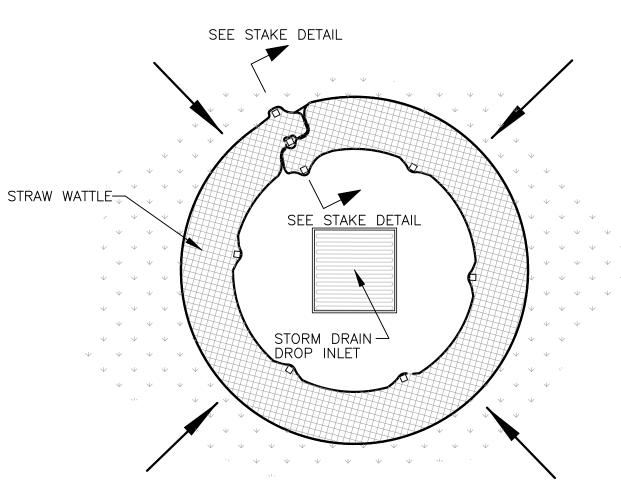
\*Silt fence should not be removed until construction ceases and the upslope area has been properly stablized and/or revegetated.



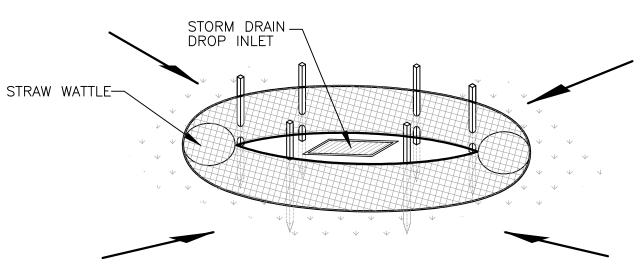
Roll-to-Roll Connection

# Figure 1: Top View of

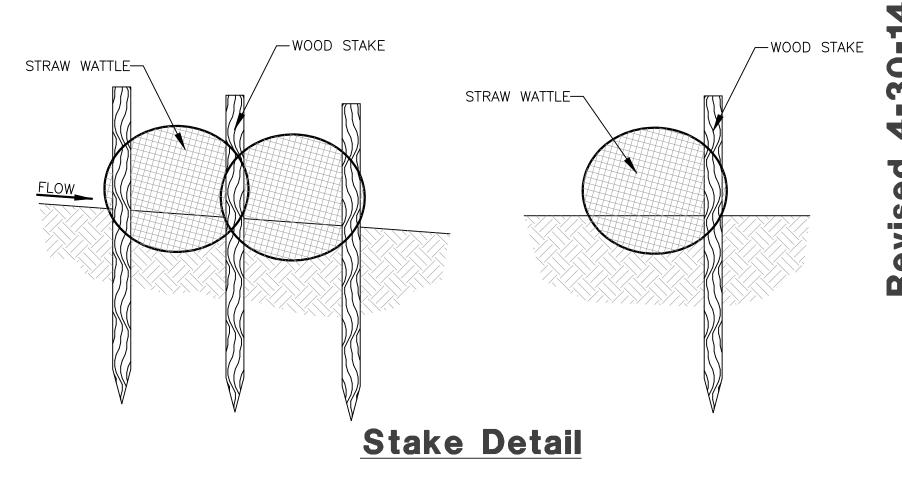




## Plan View



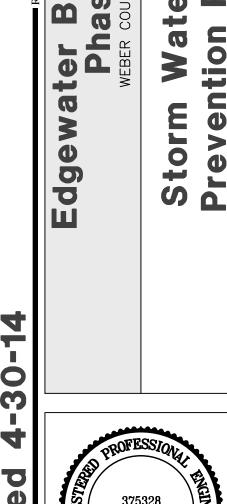
## **Drop Inlet Protection**



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

Silt Fence Detail

10 MIL PLASTIC LINER –



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**Q** 

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. NATE REEVE

Project Info. J. NATE REEVE, P.E. Drafter: R. HANSEN Begin Date: <u>JULY 09, 201</u>2 EDGEWATER BEACH RESORT PHASE-1 Number: <u>5917–15</u>

> Sheet 13 Sheets

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