

WHEN RECORDED, MAIL TO:
Utah Department of Transportation
Right of Way, Fourth Floor
Box 148420
Salt Lake City, UT 84114-8240

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9/25/2017 4:02:00 PM \$47.00
Book - 10602 Pg - 549-567
ADAM GARDINER
Recorder, Salt Lake County, UT
COTTONWOOD TITLE
BY: eCASH, DEPUTY - EF 19 P.

UTAH DEPARTMENT OF TRANSPORTATION DRAINAGE AGREEMENT

Salt Lake County

Tax ID No. 27-25-401-002

This Drainage Agreement made and entered into this 26 day of September 2017 between Utah Department of Transportation ("Department") and GBR 274 West 12300 South, LLC ("Permittee"), who owns the property described in Exhibit A.

RECITALS

The Permittee (property owner) desires to construct a drainage system and a drainage connection within the Department Right of Way subject to the requirements and conditions described in the Permit.

Department's Policy 08A-06 requires the Permittee to sign the Drainage Agreement as part of the permitting process for a drainage connection.

The parties agree as follows:

(1) **COMPLIANCE:** Permittee must comply with the conditions in the permit and applicable state and federal statutes, regulations and rules. The Department may perform inspection of Permittee's drainage system to monitor compliance with the Permit and with state and federal statutes, regulations, and rules. Permittee grants the Department access to the Permittee's property for inspection or to perform any repairs to prevent damage to the Department's Right of Way. The Department's inspection does not relieve the Permittee of its responsibilities in meeting the Permit conditions. The Permittee is responsible for the Department's inspection costs. Permittee's responsibilities include:

- a) Permittee is responsible for repairing and restoring any portion of the Department Right of Way and drainage systems located therein that may be damaged as a result of making the drainage connection or as the result of any subsequent drainage originating from the Permittee's property.
- b) Permittee must not increase its drainage discharge into the Department's drainage system without the written permission of the Department.
- c) A bonded contractor must apply for the required permit to install drainage systems in the Department Right of Way prior to the commencement of any such work.
- d) The Permittee is responsible to obtain environmental clearances, permits, or other approvals from any other local, state or federal agency that may have regulatory jurisdiction or oversight.

(2) **MAINTENANCE:** Permittee's drainage system must at all times be maintained, repaired, constructed, and operated by and at the expense of the Permittee. The drainage system will be serviced without access from any interstate highway or ramp. The Department may notify the Permittee of any maintenance requirements if the Permittee fails to maintain the drainage system. The Department reserves the right, without relieving the Permittee of its obligations, to reconstruct or make repairs to the drainage system, as it may consider necessary, and the Permittee must reimburse the Department for its cost if the Permittee fails to comply with the Department's written notification and complete the required maintenance.

(3) **FUTURE IMPACTS:** The Department has the right to change its drainage system for any future transportation project. If the Department's drainage system is reconstructed or modified, the Department reserves the right to hold the Permittee responsible for the cost to reconnect to the Department's drainage system. The Department is not responsible for any costs the Permittee incurs due to the drainage system being reconstructed or modified.

(4) **LIABILITY:** Pursuant to R930-7-6(2)(b), the Permittee is required to guarantee satisfactory performance under this Permit. The Department may proceed against Permittee to recover all expenses incurred by the Department, its employees, or contractors in repairing the sections of roadway damaged by the Permittee or its drainage system, including the failure to restore the Right of Way to Department standards. The Permittee will be liable for all costs the Department incurs under this agreement.

The Permittee will indemnify, defend, and hold harmless the Department, its employees, and the State of Utah from responsibility for any damage or liability arising from Permittee's construction, maintenance, repair, or any other related operation of the drainage system pursuant to the Permit issued under this agreement.

The Permittee will not hold the Department liable for damages resulting from any back-up or flow into the Permittee's drainage system or property. The Permittee accepts all risks associated with the connection to the Department's drainage system. The Permittee is responsible for all liability resulting from the discharge of pollutants into the Department's drainage system from its property or drainage system.

(5) **CANCELLATION OF PERMIT:** Any failure on the part of Permittee to comply with the terms and conditions set forth in the Permit or this Agreement may result in cancellation of the Permit. Failure of the Permittee to pay any sum of money for costs incurred by the Department in association with inspection, reconstruction, repair, or maintenance of the drainage system may also result in cancellation of the Permit. Non-compliance with either the Permit or Agreement may result in the Department removing the drainage system and restoring the highway and Right of Way at the sole expense of the Permittee. The Department will notify the Permittee in writing prior to any cancellation, setting forth the violations, and will provide the Permittee a reasonable time to correct the violations to the satisfaction of the Department. The Department may order the Permittee to remove its drainage system if the violations are not corrected.

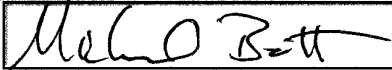
(6) **SUCCESSORS AND ASSIGNS:** All covenants, obligations and agreements will be binding upon the parties, their successors and assigns and run with the land as described in Exhibit A until the drainage connection is removed from the Department's Right of Way.

(7) **MISCELLANEOUS:**

- a) Each party agrees to undertake and perform all further acts that are reasonably necessary to carry out the intent and purpose of the Agreement at the request of the other party.
- b) This Agreement does not create any type of agency relationship, joint venture, or partnership between the Department and Permittee.
- c) The failure of either party to insist upon strict compliance of any of the terms and conditions, or failure or delay by either party to exercise any rights or remedies provided in this Agreement, or by law, will not release either party from any obligations arising under this Agreement.

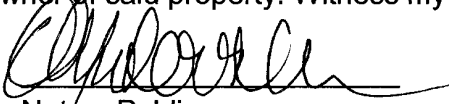
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- d) This Agreement shall be deemed to be made under and shall be governed by the laws of the State of Utah in all respects. Each person signing this Agreement warrants that the person has full legal capacity, power and authority to execute this Agreement for and on behalf of the respective party and to bind such party.
 - e) If any portion of this Agreement is held to be invalid or unenforceable for any reason by a court of competent jurisdiction, such invalidity or unenforceability shall not affect any other provision, and this Agreement shall be construed as if such invalid or unenforceable provision had never been included.


IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

CURRENT PROPERTY OWNER/PERMITTEE			
Name Printed:	Michael Bott	Signature:	

State of Utah)
County of Salt Lake)
On this 25 day of September, in the year 2017, the owner of the property personally appeared before me as the signer of this agreement, who duly acknowledged to me that he/she executed this agreement pursuant to the authority delegated to him/her as the current property owner of said property. Witness my hand and official seal.

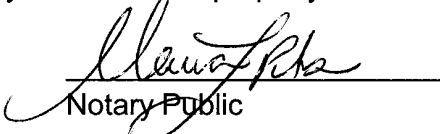
(NOTARY SEAL)


Notary Public

UTAH DEPARTMENT OF TRANSPORTATION – Region Permits Officer			
Name Printed:	JEFF LEWIS	Signature:	

State of Utah)
County of Salt Lake)
On this 25 day of September, in the year 2017, the owner of the property personally appeared before me as the signer of this agreement, who duly acknowledged to me that he/she executed this agreement pursuant to the authority delegated to him/her as the current property owner of said property. Witness my hand and official seal.

(NOTARY SEAL)


Notary Public

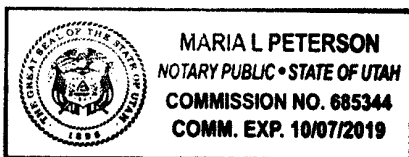


EXHIBIT A (Legal Description of Permittee's Property)

Exhibit "A"
(Legal Description)

Beginning at a point 32 9/13 rods South from the Northwest corner of the Southeast quarter of Section 25, Township 3 South, Range 1 West, Salt Lake Meridian; and running thence South 32 4/13 rods; thence East 26 rods; thence North 32 4/13 rods; thence West 26 rods to the place of beginning.

Less and Excepting therefrom that property conveyed in warranty Deed recorded June 1, 1998, as Entry No. 6979534, in Book 7993, at Page 2447, as described as follows:

A parcel of land in fee for the widening of 12300 South Street, being part of an entire tract of property, situate in the Southeast quarter of Section 25, Township 3 South, Range 1 West, Salt Lake Base and meridian. The boundaries of said parcel of land are described as follows:

Beginning at the Southwest corner of said entire tract of property (recorded as Entry No. 3627200, in Book 5317, at Page 1210, in the office of the Salt Lake County Recorder), which point is South 539.42 feet (164.415 meters) and South 498.14 feet (151.833 meters) from the center of said Section 25; and running thence North 20.00 feet (6.096 meters) to a point 53 feet perpendicularly distant Northerly from the monumented centerline of 12300 South Street; thence South 89u2258'20" East 429.00 feet 130.759 meters) along a line parallel with said centerline to the Easterly boundary line of said entire tract; thence South 20.00 feet (6.096 meters) to the Southeast corner of said entire tract; thence North 89u2258'20" West 429.00 feet (130.759 meters) to the point of beginning.

Also Less and Excepting any portion lying within 12300 South Street.

The following is shown for information purposes only: 27-25-401-002

EXHIBIT B

(include drainage plan showing state route, mile post and location of all drainage systems and drainage calculations)



EN SIGN
THE ENGINEERING PROFESSIONALS
SALT LAKE CITY
1450 S. 1200 EAST, SUITE 550
SALT LAKE CITY, UT 84119
Phone: 801.255.0259

LAYTON
Phone: 801.254.1100

TOOELE
Phone: 805.343.3550

CEDAR CITY
Phone: 435.861.1453

RICHFIELD
Phone: 435.698.2983

WWW.ENSIGNENGINEERING.COM

GOULD + INDEPENDENT CONTRACTORS
SALT LAKE CITY, UT 84119
SARAH S. GIBSON, P.E.
SARAH S. GIBSON, P.E.
PHONE: 801.255.0866

ONSET FINANCIAL
274 WEST 12300 SOUTH
DRAPER, UTAH



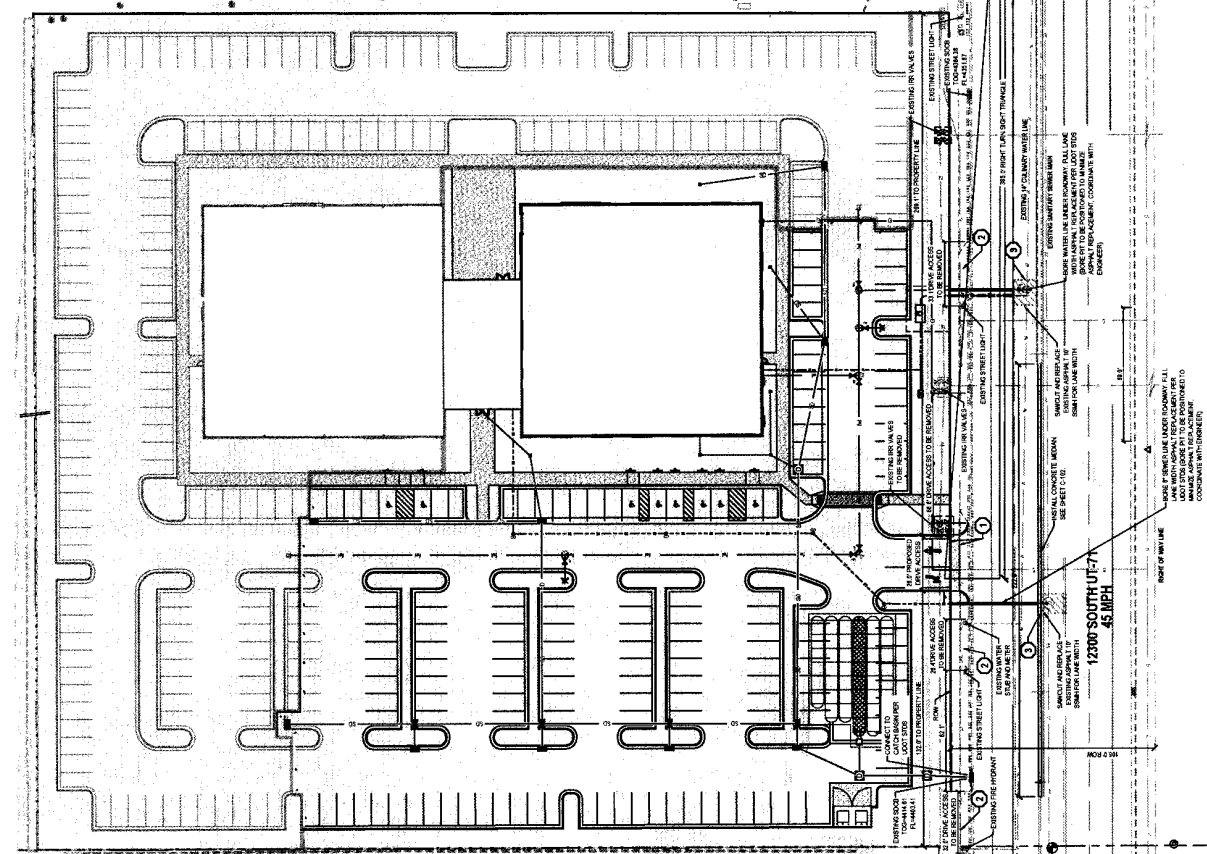
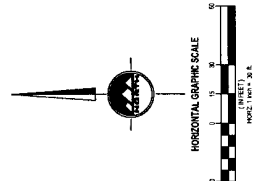
UDOT SITE PLAN

PROJECT: ONSET FINANCIAL
SHEET NO.: 12300 SOUTH UT-7
DATE: 05/20/2010

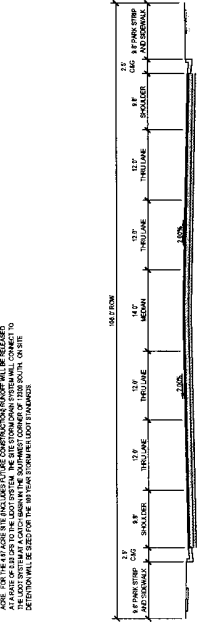
C-101

CALL SURVEYING
8 1/2 HOURS PER HOUR
FOR THE MAJORITY OF ANY
CONSTRUCTION

BENCHMARK
TOWERS LIGHT TOWER
FOOT CANTONMENT
ELEVATION: 4811.0



- GENERAL NOTES**
1. ALL UTILITIES SHOWN ARE BASED ON THE RECORD DRAWINGS AND FIELD SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
 2. ALL UTILITIES SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE PROJECT. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES.
 4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
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 20. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
- SCOPE OF WORK**
1. DEMOLITION OF EXISTING STRUCTURE AND UTILITIES.
 2. FOUNDATION AND FLOOR SLAB CONSTRUCTION.
 3. FRAMING AND ROOFING CONSTRUCTION.
 4. MECHANICAL, ELECTRICAL, AND PLUMBING (MEP) INSTALLATION.
 5. INTERIOR FINISHES AND PARTITIONS.
 6. EXTERIOR FINISHES AND LANDSCAPING.
 7. SITEWORK AND UTILITIES.
 8. PAVING AND CURBS.
 9. SIGNAGE AND LIGHTING.
 10. FINAL INSPECTION AND CLOSE-OUT.
- DRAINAGE NARRATIVE**
- THE EXISTING DRAINAGE SYSTEM WILL BE MAINTAINED AND REPAIRED AS NECESSARY. THE PROPOSED DRAINAGE SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH THE CITY OF DRAPER SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE CITY OF DRAPER.





THE STANDARD ENGINEERING
SALT LAKE CITY
 100 East 100 South
 Phone: 801.250.0529

LAYTON
 Phone: 801.547.1100

TOOELE
 Phone: 435.643.3599

CEDAR CITY
 Phone: 435.865.1453

RICHFIELD
 Phone: 435.982.2983

WWW.ENSIGNENR.COM

ONSET FINANCIAL
 274 WEST 12300 SOUTH
 DRAPER, UTAH



UDOT STRIPING PLAN

PROJECT NUMBER: 2011-0011
 DRAWING NUMBER: C-102
 DATE: 08/11/11
 PROJECT MANAGER: GLENN

C-102



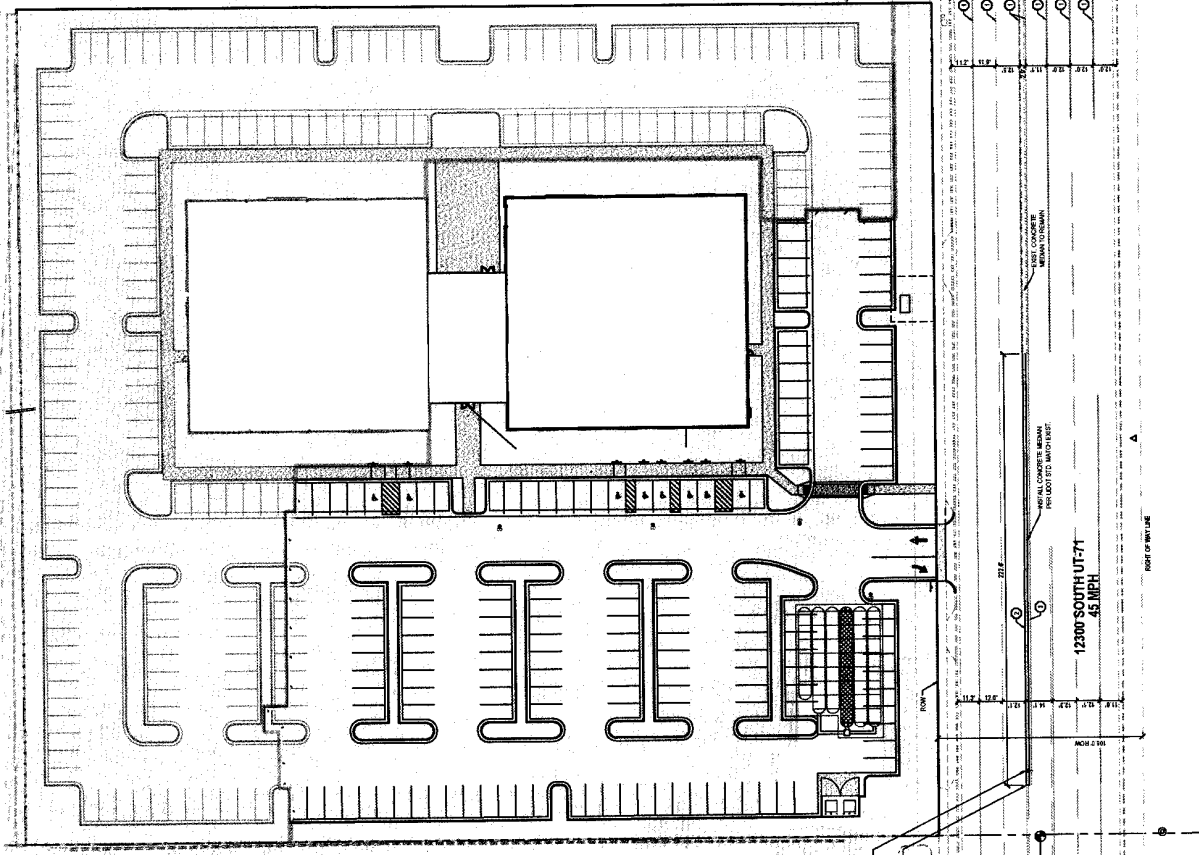
CALL 811 SERVICES
 & HAVE A FAVORABLE
 EXPERIENCE WITH THE
 CONDUCTIVITY OF ANY
 CONSTRUCTION.

BENCHMARK
 SURVEYING CONSULTANTS
 1000 SOUTH PARKWAY WEST
 (P.O. BOX 1000)
 BEVINGTON - 41610

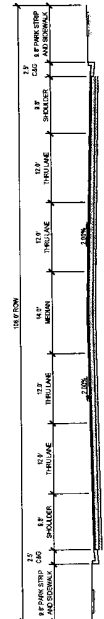


HORIZONTAL GRAPHIC SCALE
 1" = 100' 0"

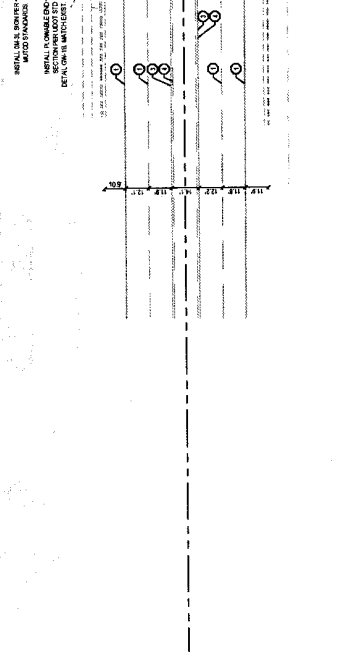
265 WEST STREET



- SCOPE OF WORK:**
 PROVIDE FINAL PLANS, CONTRACTS, PERMITS AND SPECIFICATIONS
 FOR THE STRIPING AND SIGNAGE OF THE PROJECT.
- 1. EXISTING STRIPING TO REMAIN
 - 2. EXISTING STRIPING TO BE REMOVED
 - 3. NEW YELLOW LINE PER MUTCD STANDARD PLANS
 - 4. NEW YELLOW LINE

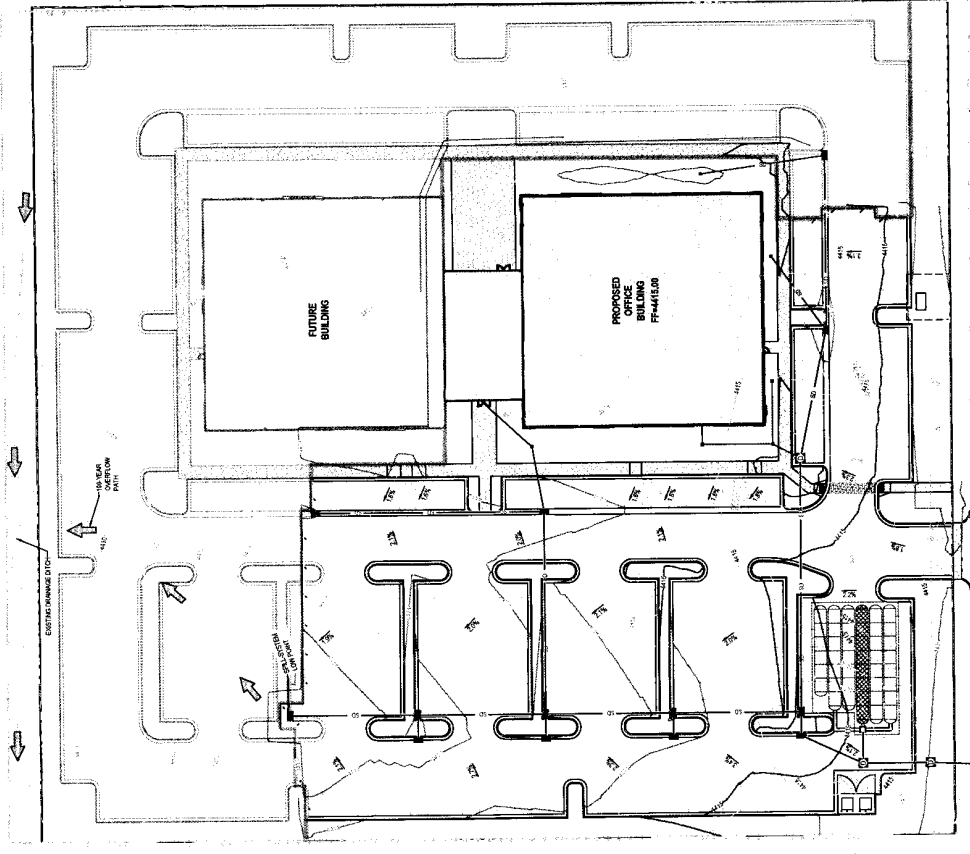


12300 SOUTH STRIPING CROSS SECTION





BENCHMARK
 A DIVISION OF
 WEST SALT LAKE CITY AND ASSOCIATES
 ELEVATION: 4444 FT



12300 SOUTH

- GENERAL NOTES**
1. ALL WORK TO COMPLY WITH THE GOVERNMENT'S STANDARDS AND SPECIFICATIONS.
 2. ALL UTILITIES MUST BE LOCATED WITH THE STANDARD AND RECOMMENDATIONS.
 3. ALL WORK SHALL COMPLY WITH THE STANDARD AND RECOMMENDATIONS FOR THE PROTECTION AND PRESERVATION OF EXISTING UTILITIES AND STRUCTURES. ALL UTILITIES SHALL BE PROTECTED AND PRESERVED TO REMAIN IN PLACE AND OPERATIONAL. ANY UTILITIES THAT ARE DAMAGED OR DESTROYED SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER. ALL UTILITIES SHALL BE PROTECTED AND PRESERVED TO REMAIN IN PLACE AND OPERATIONAL.
 4. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING SOIL CONDITIONS.
 5. ELEVATIONS HAVE BEEN INDICATED FOR CLARITY. 10% REPRESENTS AN ELEVATION OF 4445.00 FEET ON THESE PLANS.
 6. ALL UTILITIES SHALL BE PROTECTED AND PRESERVED TO REMAIN IN PLACE AND OPERATIONAL. ANY UTILITIES THAT ARE DAMAGED OR DESTROYED SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER. ALL UTILITIES SHALL BE PROTECTED AND PRESERVED TO REMAIN IN PLACE AND OPERATIONAL.
 7. SURVEY IS UNADJUSTED AND DERIVED FROM BUILDING FOUNDATIONS. TOWNSHIP CORNER AND LOCATION INFORMATION IS PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION INFORMATION AND MAKE ANY NECESSARY ADJUSTMENTS TO THE INFORMATION PROVIDED IN THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION INFORMATION AND MAKE ANY NECESSARY ADJUSTMENTS TO THE INFORMATION PROVIDED IN THIS PLAN.
 8. EXISTING UTILITIES AND STRUCTURES ARE SHOWN IN THESE PROVISIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION INFORMATION AND MAKE ANY NECESSARY ADJUSTMENTS TO THE INFORMATION PROVIDED IN THIS PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION INFORMATION AND MAKE ANY NECESSARY ADJUSTMENTS TO THE INFORMATION PROVIDED IN THIS PLAN.
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 14. THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING UTILITIES, STRUCTURES, AND SOILS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.

ONSET FINANCIAL
 274 WEST 12300 SOUTH
 DRAPER, UTAH



GRADING PLAN



C-200



4445 EAST LAKER CITY
 4445 EAST LAKER CITY
 SANDY, UT 84070
 PHONE: 801.255.0529

LAYTON
 Phone: 801.541.1100

TOOELE
 Phone: 435.843.3500

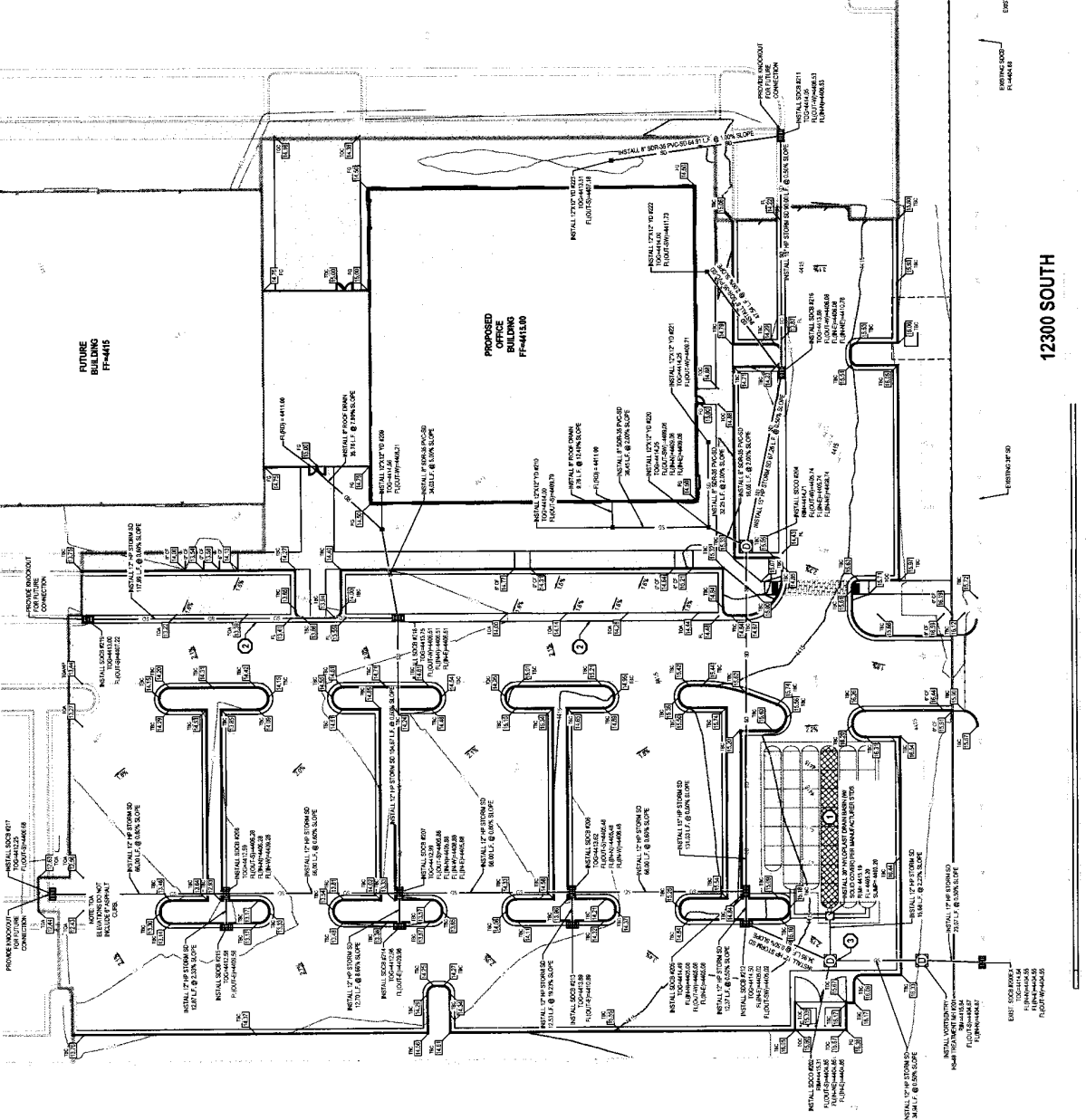
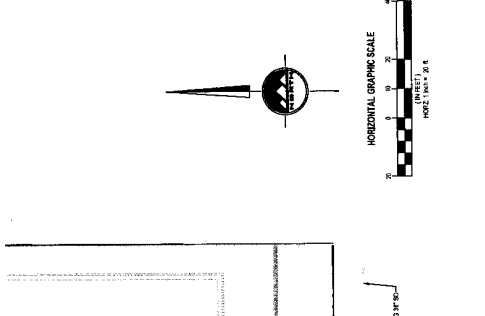
CEDAR CITY
 Phone: 435.865.1453

RICHFIELD
 Phone: 435.862.5203

WWW.ENSIGNENR.COM

ARCHITECT
 2750 SOUTH HARRISON ROAD, SUITE 100
 SALT LAKE CITY, UT 84119
 801.487.1000

- GENERAL NOTES**
1. ALL WORK TO COMPLY WITH THE GOVERNMENT'S STANDARDS AND SPECIFICATIONS.
 2. ALL IMPROVEMENTS MUST COMPLY WITH ALL STANDARD AND NONSTANDARD SPECIFICATIONS OF THE GOVERNMENT, LOCAL, STATE AND FEDERAL AGENCIES, AND ALL APPLICABLE CODES, ORDINANCES, REGULATIONS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES.
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CALL LETTERS
SHALL BE PLACED AT LEAST 4 INCHES FROM ANY BOUNDARY LINE OR CENTERLINE OF ANY CONSTRUCTION.

BENCHMARK
LOCATIONS: THE SURVEY BENCHMARK IS LOCATED AT THE INTERSECTION OF SECTION 16 AND RANGE 11E, T12N, R11E, S4E, UTAH ZONE 12N. ELEVATION: 4141.42.

Drainage Narrative

ONSET FINANCIAL

274 WEST 12300 SOUTH
DRAPER, UTAH

PREPARED FOR:

GOULD + ARCHITECTS

DAN GOULD

5763 SOUTH REDWOOD ROAD, #21
SALT LAKE CITY, UT 84123
(801) 335-9900

PREPARED BY:

ENSIGN ENGINEERING

JARED FORD

45 WEST 10000 SOUTH #500
SANDY, UT 84070
(801) 255-0529

JULY 31, 2017



Civil Engineering
Structural Engineering
Land Surveying
Urban Design
Planning

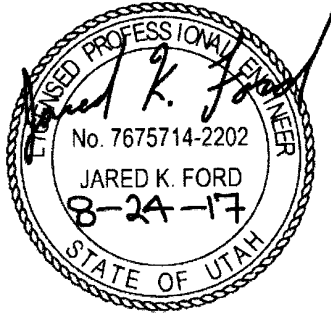


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1.0 PROJECT OVERVIEW/LOCATION

The proposed commercial office building is located in the Southeast quarter of Section 25, Township 3 South, Range 1 West, Salt Lake Base and Meridian in Draper City, Utah. The project is bounded by 12300 South to the South, 265 West to the east, commercial property to the West, and a combination of farm-land and commercial property to the North. This project will be constructed in two phases. This report will discuss phase 1, which includes the Southwest part of the property, and the Southern office building.

2.0 EXISTING DRAINAGE CONDITIONS

The existing site generally flows towards the northeast corner of the property and the existing ground slopes run from approximately 0.5% to 5%.

3.0 DESIGN OBJECTIVES AND METHODOLOGY

The site drainage system will be designed to conform to the Utah Department of Transportation (UDOT) design requirements as stormwater from the project will discharge to 12300 South Street. This report will address the proposed drainage system, which is intended to both reduce the post developed peak runoff as well as reduce the impact of development on the environment. The proposed construction of this project will create an increase in the amount of impervious area on the site, which will increase the amount of site runoff.

Drainage calculations for the project were performed using rainfall data from NOAA Atlas 14, Volume 1, Version 5. The rational method was used to model the hydrology and detention requirements. The area associated with this phase of the project was assigned a runoff coefficient based on the ground cover, and impervious area. The coefficients used were analyzed appropriate for the area of this study. These coefficients can be seen in the table below:

TABLE 3-1 RATIONAL CALCULATION RUNOFF COEFFICIENTS

Business: Downtown and neighborhood areas	0.75
Impervious Areas: parking lots, roads, etc.	0.90
Improved Open Space (lawns, parks, etc)	0.15

Design criteria include the following:

- The 100-year storm event was used to size the detention basin
- Underground conveyance systems were planned to safely pass the 10-year storm event
- Detain post-development site discharge to the allowable rate (0.2 cfs/acre)

The rainfall data can be seen in the appendix.

4.0 PROPOSED DRAINAGE CONDITIONS

The proposed site is designed to direct runoff from paved and other hardscape areas into gutters and waterways which will be collected in catch basins. The site has been graded to allow stormwater to drain away from the building. Once stormwater has entered the pipe system, it will be conveyed to a detention basin located in the southwest corner of the project and will discharge into existing storm drain infrastructure in 12300 South. Two additional detention basins will be constructed with the second phase of this project, and will be designed to provide adequate storage for Phase 2 storm

water. The proposed phase 1 detention basin, therefore, has been designed to store only the required volume from this phase. The detention system shall be StormTech MC 3500 chambers or engineer approved equivalent, and the design volumes can be seen in the following table:

TABLE 4-1 DETENTION VOLUMES

9,175	9,215

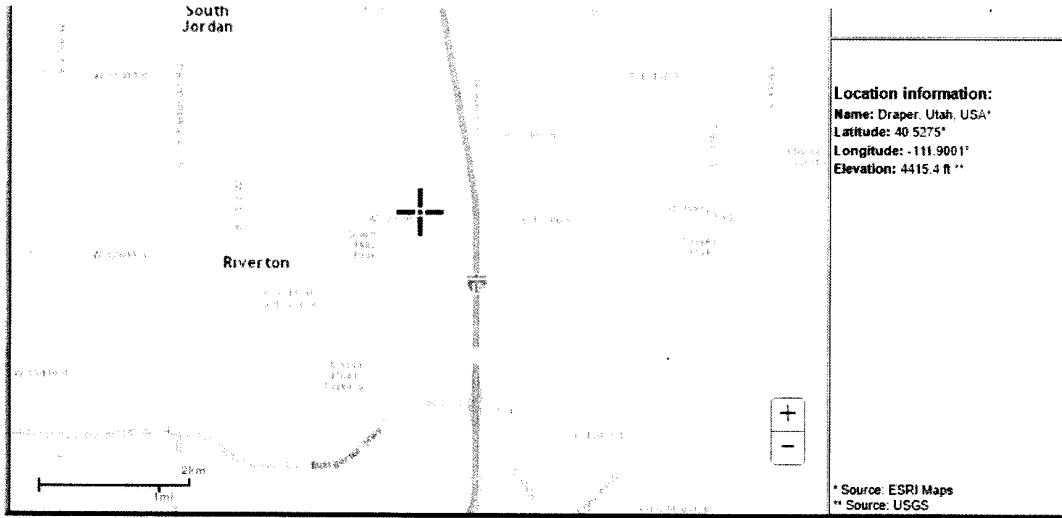
As per UDOT's standards and specifications, an allowable release rate of 0.2 cfs per Acre was used to calculate the size of the orifice plate. As runoff from the entire site (Phases 1 and 2) will pass through this orifice before entering into the existing storm drain system, the orifice plate has been sized for the total project area. The allowable release rate for the total project area is 0.93 cfs. The orifice plate will be installed on the South side of SDCO #202, and will have a diameter of 3.93 inches. All detention and release rate calculations have been included in the appendix, and the proposed infrastructure has been sized to safely convey the 10-year storm event.

5.0 CONCLUSIONS

The proposed drainage system for the Onset Financial Office Building project has been sized to safely convey the 10-year storm event and detain the 25-year storm event.

6.0 APPENDIX

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POINT PRECIPITATION FREQUENCY (PF) ESTIMATES
 WITH 90% CONFIDENCE INTERVALS AND SUPPLEMENTARY INFORMATION
 NOAA Atlas 14, Volume 1, Version 5

PF tabular PF graphical Supplementary information Print page

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.127 (0.112-0.147)	0.161 (0.142-0.186)	0.221 (0.193-0.256)	0.276 (0.238-0.321)	0.364 (0.307-0.427)	0.447 (0.365-0.528)	0.543 (0.430-0.661)	0.658 (0.500-0.803)	0.842 (0.605-1.05)	1.01 (0.694-1.30)
10-min	0.194 (0.170-0.224)	0.245 (0.215-0.284)	0.335 (0.294-0.389)	0.420 (0.362-0.488)	0.554 (0.481-0.650)	0.680 (0.559-0.805)	0.827 (0.654-0.991)	1.00 (0.780-1.22)	1.28 (0.922-1.81)	1.54 (1.08-1.97)
15-min	0.240 (0.210-0.277)	0.303 (0.267-0.351)	0.416 (0.364-0.482)	0.520 (0.449-0.605)	0.687 (0.578-0.808)	0.843 (0.669-0.998)	1.02 (0.811-1.23)	1.24 (0.948-1.52)	1.59 (1.14-1.99)	1.91 (1.31-2.44)
30-min	0.323 (0.283-0.373)	0.409 (0.360-0.473)	0.560 (0.490-0.649)	0.701 (0.605-0.815)	0.925 (0.770-1.09)	1.14 (0.928-1.34)	1.38 (1.09-1.68)	1.67 (1.27-2.04)	2.14 (1.64-2.68)	2.57 (1.78-3.29)
90-min	0.399 (0.350-0.482)	0.506 (0.445-0.585)	0.693 (0.607-0.804)	0.867 (0.748-1.01)	1.14 (0.984-1.34)	1.41 (1.15-1.68)	1.71 (1.35-2.05)	2.07 (1.57-2.59)	2.65 (1.90-3.32)	3.18 (2.18-4.07)
2-hr	0.498 (0.451-0.564)	0.623 (0.559-0.702)	0.810 (0.728-0.918)	0.990 (0.875-1.12)	1.28 (1.10-1.48)	1.55 (1.30-1.78)	1.86 (1.51-2.18)	2.24 (1.74-2.68)	2.85 (2.09-3.50)	3.40 (2.39-4.29)
3-hr	0.573 (0.523-0.639)	0.708 (0.648-0.788)	0.895 (0.811-0.994)	1.07 (0.959-1.19)	1.34 (1.18-1.50)	1.59 (1.38-1.80)	1.89 (1.58-2.20)	2.24 (1.72-2.70)	2.88 (2.16-3.54)	3.44 (2.50-4.34)
6-hr	0.741 (0.688-0.808)	0.909 (0.840-0.991)	1.11 (1.02-1.21)	1.29 (1.18-1.40)	1.55 (1.40-1.70)	1.77 (1.57-1.98)	2.03 (1.78-2.28)	2.33 (1.95-2.73)	2.90 (2.28-3.57)	3.47 (2.72-4.28)
12-hr	0.922 (0.850-1.00)	1.13 (1.04-1.23)	1.36 (1.28-1.49)	1.57 (1.44-1.71)	1.86 (1.69-2.05)	2.11 (1.88-2.34)	2.37 (2.09-2.68)	2.66 (2.29-3.03)	3.11 (2.59-3.64)	3.49 (2.84-4.12)
24-hr	1.03 (0.990-1.10)	1.26 (1.17-1.35)	1.49 (1.40-1.59)	1.69 (1.58-1.81)	1.96 (1.83-2.09)	2.16 (2.01-2.38)	2.38 (2.20-2.59)	2.68 (2.38-3.09)	3.14 (2.51-3.57)	3.53 (2.88-4.17)
2-day	1.19 (1.11-1.28)	1.45 (1.35-1.55)	1.71 (1.60-1.83)	1.93 (1.81-2.05)	2.22 (2.07-2.38)	2.43 (2.27-2.59)	2.65 (2.48-2.82)	2.86 (2.65-3.12)	3.16 (2.89-3.71)	3.56 (3.08-4.01)
3-day	1.27 (1.19-1.35)	1.55 (1.45-1.65)	1.83 (1.72-1.95)	2.06 (1.94-2.19)	2.38 (2.23-2.52)	2.61 (2.44-2.78)	2.85 (2.68-3.04)	3.09 (2.87-3.32)	3.42 (3.14-3.82)	3.75 (3.33-4.53)
4-day	1.35 (1.28-1.44)	1.64 (1.54-1.78)	1.95 (1.83-2.07)	2.19 (2.08-2.30)	2.54 (2.38-2.69)	2.80 (2.62-2.97)	3.06 (2.85-3.28)	3.32 (3.09-3.54)	3.67 (3.38-3.93)	3.93 (3.60-4.58)
7-day	1.55 (1.48-1.66)	1.89 (1.78-2.02)	2.23 (2.10-2.37)	2.50 (2.39-2.65)	2.87 (2.70-3.03)	3.14 (2.95-3.32)	3.41 (3.19-3.60)	3.67 (3.45-3.88)	4.00 (3.72-4.25)	4.23 (3.93-4.59)

STORM DRAIN DETENTION



PROJECT TITLE: Preliminary Calculation		PROJECT NUMBER: 7434A
LOCATION: Onset Financial		DATE: 08/24/17
OWNER:		SHEET: 1 OF 1
DESIGNED BY: C. Hamer	CHECKED BY:	APPROVED BY: J. Ford

AREA CALCULATION

IMPERVIOUS AREA :	1.88 acres	runoff coeff. C :	0.90
PERVIOUS AREA :	0.47 acres	runoff coeff. C :	0.15
TOTAL AREA :	2.35 acres	WEIGHTED C :	0.75

RUNOFF CALCULATION

25 Year Design Storm		Allowable Runoff	0.470884511	cfs		
		Total allowable runoff	0.471	cfs		
Time (min)	CA (Acres)	Precipitation (in)	Time (sec)	Cumulative Runoff (ft ³)	Allowed Runoff (ft ³)	Storage (ft ³)
15	1.77	1.02	900	6,484	424	6,060
30	1.77	1.38	1,800	8,773	848	7,925
60	1.77	1.71	3,600	10,870	1,695	9,175
360	1.77	2.03	21,600	12,905	10,171	2,733
720	1.77	2.37	43,200	15,066	20,342	0
1440	1.77	2.38	86,400	15,130	40,684	0
STORAGE REQUIRED :					9,175	
ACRE-FT :					0.21	



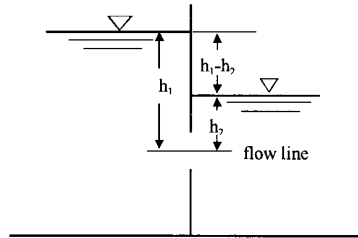
SHEET 1 of 1
 PROJECT NO. 7434A

PROJECT: Onset Financial Office BY: J. Ford DATE: 6/8/2017
 SUBJECT: Detention Orifice CHKD. BY: _____ DATE: _____

Equation: $Q = CA\sqrt{2g(h_1 - h_2)}$

Where: *for various shapes*

Sharp Edged =	0.61
Rounded =	0.98
Short Tube =	0.8
Borda =	0.51



Given Input Data:

Solve for	Area or Diameter	
Flowrate, Q=	0.9300	cfs
Coefficient=	0.6100	
Headwater, h=	5.1000	ft
Tailwater=	0.0000	ft

Use 0.0 for free discharge condition

Computed Results:

Diameter	3.93	in
Area	12.11	in ²
Velocity	11.05	fps

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PHONE: (801) 335-8989
FAX:

ONSET FINANCIAL
274 WEST 12300 SOUTH
DRAPER, UTAH

BASIN EXHIBIT

PROJECT #
7525A
DATE
7/31/2017
DRAWN BY
JUN
CHECKED BY
JUN

EX-100

