Common Plan SWPPP for

Zuech Private Residence

4048 W. 2400 S.

Taylor UT, 84404

Andrew Todd and Sheri M. Zuech
3560 S. Midland Dr. Apt. H106
West Haven UT, 84401

Andrew Todd Zuech (Owner / Builder)
3560 S. Midland Dr. Apt. H106
West Haven UT, 84401

Date

June 3, 2016

1. Project Information

Project Name: Zuech Private Residence
Address: 4048 W. 2400 S.
City: Taylor **State:** UT **Zip:** 84404
Latitude: S00 48'15"W (41.223306)
Longitude: N89 11'45"W (-112.078443)
UPDES Permit Tracking Number: Click here to enter text.

Owner: Andrew Todd Zuech
Contact Person: Andrew Todd Zuech
Address: 3560 S. Midland Dr. Apt H106
City: West Haven **State:** UT **Zip:** 84401
Telephone Number: 801-388-9366
Email Address: tszuech@msn.com

General Contractor: Andrew Todd Zuech (Owner / Builder)
Contact Person: Andrew Todd Zuech
Address: 3560 S. Midland Dr. Apt H106
City: West Haven **State:** UT **Zip:** 84401
Telephone Number: 801-388-9366
Email Address: tszuech@msn.com

2. Pollution Sources/Best Management Practices

Answer yes or no whether the following features are located at your site. If yes, select the BMP(s) that will be used to protect each feature. If no, continue to the next question. Attach necessary illustrated details for proper installation in Appendix L, and show locations of all controls on Site Map in Appendix B.

2.1 **Is there a SWPPP sign on site?** (see permit part 1.10) **Yes** X **No** ☐
The sign must include the UPDES tracking number, the owner or general contractor name, phone number and email, and if the SWPPP is on-line, instructions on how to view it.

2.2 **Will there be non-stormwater discharges on the site?** (see permit part 1.3) **Yes** X **No** ☐
Construction Dewatering (if discharged offsite) must be covered by UPDES Permit UTG070000 (see permit part 2.7). Further, cleaning of tools and equipment must be contained in a plastic lined pit (see permit part 2.4.5 & 2.9).

2.3 **Are wetlands, sensitive areas, or UIC wells located on or adjacent to the site?** (see permit part 2.2) **Yes** ☐ **No** X
BMP(s): ☐ Vegetative Buffers ☐ Berms ☐ Wattles
☐ Boundary Fence ☐ Silt Fence
☐ Other: Click here to enter text.

2.4 **Will there be stockpiles on the site?** **Yes** X **No** ☐
Note: *Select "Contained by other BMP" if another BMP on your site will contain runoff from the stockpiles CANNOT be placed in the street.* (see permit part 2.1.1)
BMP(s): X Silt Fence ☐ Staked Straw Wattle ☐ Covering
☐ Other: Click here to enter text.
☐ Contained by other BMP. Explain: Click here to enter text.

2.5 **Are surface waters located within 30 feet of your project's earth disturbances?** **Yes ☐** **No X**
Is there a SWPPP sign on site? (see permit part 1.10)
Note: *A 30' natural vegetative buffer MUST be used if possible. If a buffer less than 30' is used, you must demonstrate that the additional controls offer the same protection as a 30' natural vegetative buffer, and select the reason for exemption below.* (see permit part 2.3.5)
BMP(s): ☐ 30' Natural Vegetative Buffer ☐ Less than 1 acre Disturbance
☐ 2 Silt Fence Barrier ☐ 2 Straw Wattle Barriers (Fiber Roll)
☐ Less than 30' Natural Vegetative Buffer. Additional Controls: Click here to enter text.

2.6 **Does your site have steep slopes (greater than 70%)?** (see permit part 2.3.2) **Yes ☐** **No X**
BMP(s): ☐ Erosion Control Blanket ☐ Minimum Disturbance ☐ Seeding
☐ Hydroseed ☐ Mulch ☐ Takifiers
☐ Other: Click here to enter text.

2.7 **What perimeter and sediment controls will be used on the site?** (see permit part 2.1.2 & 2.3)
BMP(s): X Silt Fence ☐ Straw Wattles (Fiber Rolls) ☐ Sediment Trap
☐ Sediment Basin ☐ Swales ☐ Berms
☐ Vegetative Buffer ☐ Cut-Back-Curb
☐ Other: Click here to enter text.

2.8 **What storm drain inlet protection will be used on this site?** (see permit part 2.1.3)
Where is/are the nearest downstream inlet(s): Approximately 175ft west of site, in front of Lot 1.
BMP(s): ☐ Rock/Sand-filled Bags ☐ Drop Inlet Bags X Inlet Wattles
☐ Filter Fabric
☐ Other: Click here to enter text.

2.9 **Will curb ramps be used at the site?** **Yes X** **No ☐**
Note: *If curb ramps are used it must be done with material that will not wash away in stormwater.* (see permit part 2.4.2)
BMP(s): X Crushed Rock ☐ Wood Dunnage
☐ Other: Click here to enter text.

2.10 **What dust control BMP(s) will be used?**
BMP(s): X Wetting with Water
☐ Other: Click here to enter text.

2.11 **What track out control will be used on the site?** (see permit part 2.4.1)
BMP(s): ☐ Track Out Pad ☐ Cobble X Gravel
☐ Rumble Strips ☐ Wash Down Pad ☐ Delivery Pad
☐ Limited Site Access ☐ Selective Access During Dry Weather
☐ Other: Click here to enter text.

2.12 **How will solid waste be dealt with on the site?** (see permit part 2.4.3)
BMP(s): ☐ Bag Lightweight Trash X Leak Proof Dumpsters ☐ Receptacles with Lids
☐ Other: Click here to enter text.

2.13 **How will non-aqueous liquid waste (oil, solvent, fuel) be dealt with on the site?**
BMP(s): X Contained and Removed from the site. ☐ Collected for Reuse
☐ Other: Click here to enter text.

2.14 **How will spoils (extra or left over dirt) be contained/managed?**
BMP(s): ☐ Cover Erodible Material ☐ Runoff Containment ☐ Haul Off Policy
X Other: All dirt will remain onsite, and be used for landscaping.

2.15 How will sanitary waste be handled on the site? (see permit part 2.4.4)

BMP(s): X Portable Toilet(s) *(must be staked down & 10' from curb)*
- ☐ Onsite or Adjacent Indoor Bathrooms
- ☐ Portable Toilet Secondary Containment
- ☐ Other: Click here to enter text.

2.16 How will concrete wash water be contained on the site? (see permit part 2.4.5 & 2.9.1)

BMP(s): X Lined Depression ☐ Steel Dumpster
- ☐ Regional Washout (per development)
- ☐ Other: Click here to enter text.

2.17 What controls will be used for construction materials stored on site?

BMP(s): X Covering Erodible or Liquid Materials ☐ Secondary Containment
- ☐ Strategic Storage and Staging
- ☐ Other: Click here to enter text.

2.18 What controls will be in place for equipment fueling, maintenance, and washing?

BMP(s): ☐ Fueling w/Mobile Track w/Spill Kit X Offsite O+M
- ☐ Other: Click here to enter text.

2.19 How will sediment be contained on site until home owner completes landscaping?

BMP(s): X Landscaping ☐ Swales ☐ Rock Filters
- ☐ Perimeter Controls ☐ Vegetated Buffer ☐ Native Vegetative Barriers
- ☐ Cut-Back-Curb ☐ Leave Front-Yard Lower than Sidewalk
- ☐ Other: Click here to enter text.

Note that any maintenance required to ensure proper BMP functioning must be done within 72 hours of becoming aware of compromised BMP.

3. Site Map

See Appendix B

4. Spill Prevention and Response Plan

Spill Plan:

Prevention Measures: Ensure all substances are properly labeled. Store, dispense, use and dispose of substances properly and in a way that prevents unnecessary releases. Maintain good housekeeping practices for all materials at the facility. Routine site checks to be performed by A. Todd Zuech.

Spill Response Measures: The general spill response procedure at this site is to stop the source of the spill, contain any spilled material and clean up the spill in a timely manner to prevent accidental injury or other damage. Small spills will be contained by site personnel- if they are able to do so without risking injury. In case of large spills; assess the area for any immediate dangers to health or safety. If any dangers are present, move away from the area, call 911. Assess the size of the leak and any immediate threat of the spill reaching the storm drains or permeable surface in the area. If there is an immediate threat and there are no safety concerns, then attempt to block the spill from coming in contact with the floor/storm drain or permeable surface.

Spill Reporting: If a spill exceeds the reportable quantities, or if any amount has been released to soil, surface water, or storm drains, we will notify the appropriate agencies and authorities outlined below.

Any discharges in 24 hours equal to or in excess of the reportable quantities listed in 40 CFR 117, 40 CFR 110, and 40 CFR 302 will be reported to the National Response Center and the Division of Water Quality (DWQ) as soon as practical after knowledge of the spill is known to the permittee. The permittee shall submit within 14 calendar days of knowledge of the release a written description of: the release (including the type and estimate of the amount of material released), the date that such release occurred, the circumstances leading to the release, and measures taken and/or planned to be taken to the Division of Water Quality (DWQ), 288 North 1460 West, P.O. Box 144870, Salt Lake City, Utah 84114-4870. The Storm Water Pollution Prevention Plan must be modified within14 calendar days of knowledge of the release to provide a description of the release, the circumstances leading to the release, and the date of the release. In addition, the plan must be reviewed to identify measures to 801prevent the reoccurrence of such releases and to respond to such releases, and the plan must be modified where appropriate.

Agency	Phone Number
National Response Center	(800) 424-8802
Division of Water Quality (DWQ) 24-Hr Reporting	(801) 538-6146; (801) 536-4123
Utah Department of Health Emergency Response	(801) 580-6681
WEBER COUNTY Fire Department	801-782-3580

Minimum spill quantities requiring reporting:

Material	Media Released To	Reportable Quantity
Engine oil, fuel, hydraulic & brake fluid	Land	25 gallons
Paints, solvents, thinners	Land	100 lbs (13 gallons)
Engine oil, fuel, hydraulic & brake fluid	Water	Visible Sheen
Refrigerant	Air	1 lb
Antifreeze, battery acid, gasoline, engine degreasers	Air, Land, Water	100 lbs (13 gallons)

Emphasis to:

1st Priority: Protect all people (including onsite staff)
2nd Priority: Protect equipment and property
3rd Priority: Protect the environment

1. Make sure the spill area is safe to enter and that it does not pose an immediate threat to health or safety of any person.
2. Check for hazards (flammable material, noxious fumes, cause of spill) – if flammable liquid, turn off engines and nearby electrical equipment. If serious hazards are present leave area and call 911. LARGE SPILLS ARE LIKELY TO PRESENT A HAZARD.
3. Stop the spill source and contain flowing spills immediately with spill kits, dirt or other material that will achieve containment.
4. Call co-workers and supervisor for assistance and to make them aware of the spill and potential dangers
5. If spilled material has entered a storm sewer, regardless of containment; contact the City Storm Water Division.

6. Cleanup all spills (flowing or non-flowing) immediately following containment. Clean up spilled material according to manufacturer specifications, for liquid spills use absorbent materials AND DO NOT FLUSH AREA WITH WATER.
7. Properly dispose of cleaning materials and used absorbent material according to manufacturer specifications.
8. Report the reportable quantity to the Saratoga Springs City Storm Water Division.

Emergency Numbers

Utah Hazmat Response Officer 24 hrs	(801)-538-3745
Weber County Sheriff's Department	801-778-6600
Weber County Engineering Division	801-399-8374
Weber County Planning Division	801-399-8791

5. SWPPP, Inspections and Corrective Action Reports

Inspection Schedule and Procedures: The permit requires inspections once a week (see permit Part 3). You must list and provide details of your BMPs in Appendix L. Inspection reports require reporting on BMPs and how effective they are. You may be required to maintain, modify, remove, or apply/install more or different BMPs to control pollutants on the site. Please number your BMPs in Appendix L and refer to those numbers on your inspection reports and corrective action reports when you inspect, or report on them.

Describe the general procedures for correcting problems when they are identified. Include responsible staff and time frames for making corrections:

Problems or deficiencies will be corrected as they are discovered. They will be remedied ASAP, and never later than the mandatory 72hr window set forth.

Corrective Actions: All corrective actions must be logged using the "Correction Action Log" attached in Appendix F. The log should be filled out completely for each corrective action.

6. Changes to the SWPPP

All changes to this SWPPP must be logged in the "Amendment Log" in Appendix G. The log should be filled out completely for each amendment to the SWPPP.

7. Record Keeping

The following items should be kept at the project site available for inspectors to review:

1. Dates of grading, construction activity, and stabilization
2. A copy of the construction general permit (Appendix C)
3. The signed and certified NOI form (Appendix D)
4. Inspection reports (Appendix E)

8. Delegation of Authority (if any)

Duly Authorized Representatives or Positions:

Company/Organization: Andrew Todd Zuech
Name: Andrew Todd Zuech
Position: Owner / Builder
Address: 3560 S. Midland Dr. Apt H106
City: West Haven State: UT Zip: 84401
Telephone: 801-388-9366 Fax/Email: N/A
Note: *Any additional information (i.e. memoranda, agreements, etc.) should be attached in Appendix H.*

9. Discharge Information

Does your project/site discharge storm water into a Municipal Separate Storm Sewer System (MS4)?

X Yes ☐ No

MS4 receiving the discharge from the construction project: Unincorporated Weber County

Receiving Waters (look up http://wq.deq.utah.gov to identify your receiving water body)

Enter the name(s) of the first surface water(s) that receives storm water directly from your site and/or from the MS4 listed above. **Note:** *multiple rows provided in the case that your site has more than one point of discharge in which each flows to different surface waters.*

1. Storm Drain / Weber County MS4
2. Storm water is retained in the Mallard Springs Subdivision designated retention ponds (engineer approved).
3. From the retention ponds it either absorbs into the ground water or evaporates.
4. If the retention basins overflowed it would flow into tributaries of the Weber River, eventually to the Great Salt Lake

Impaired Waters (refer to http://wq.deq.utah.gov in the left hand column to determine status of receiving water body).

Select any impaired surface water(s) that your site will discharge to, either directly or through the MS4 selected above.

Impaired Surface Water	Is this surface water impaired?	Pollutant(s) causing the impairment	Has a TMDL been completed?	Pollutant(s) for which there is a TMDL
Great Salt Lake	☐ Yes X No		☐ Yes ☐ No	
Click here to enter text.	☐ Yes ☐ No	Click here to enter text.	☐ Yes ☐ No	Click here to enter text.

10. Certification and Notification

I, Andrew Todd Zuech, certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

X

Construction Operator:

This SWPPP should be signed and certified by the construction operator(s). Attach certifications in Appendix H.

SWPPP Appendices

Ensure the following documentation is attached to the SWPPP:

Appendix A: General Location Map

Appendix B: SWPPP Site Maps

Appendix C: Construction General Permit Regulation

Appendix D: Acknowledgement Letter from City Name Here.

Appendix E: Inspection Reports

Appendix F: Corrective Action Log

Appendix G: SWPPP Amendment Log

Appendix H: Certifications, Agreements, and Delegation of Authority

Appendix I: Grading and Stabilization Activities Log

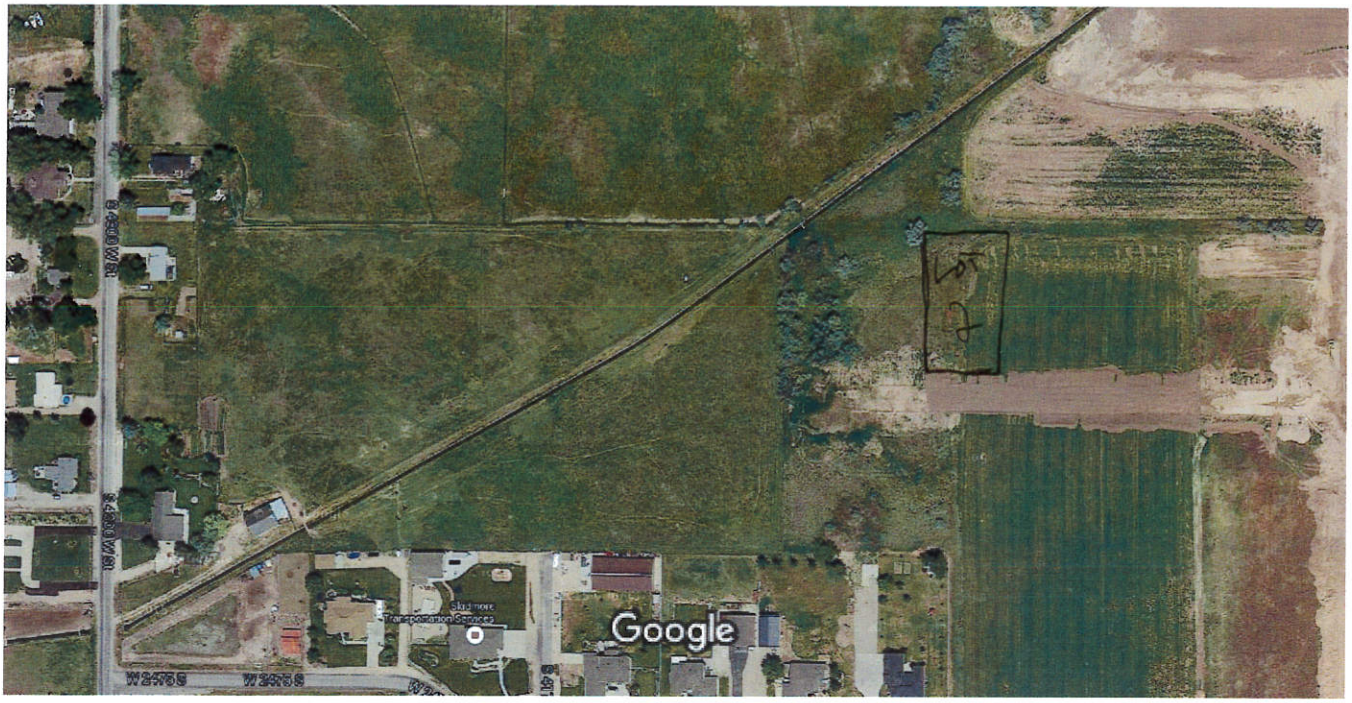
Appendix J: Construction Plans

Appendix K: Additional Information (i.e. permits such as local permits, dewatering, stream alteration, wetland, and out of date SWPPP documents, etc.)

Appendix L: BMP Specifications and Details (label BMPs to match the sections identified in this document.)

Appendix A

Google Maps General Site Map of Mallard Srings (Pre Development)



Imagery ©2016 DigitalGlobe, State of Utah, U.S. Geological Survey, USDA Farm Service Agency, Map data ©2016 Google

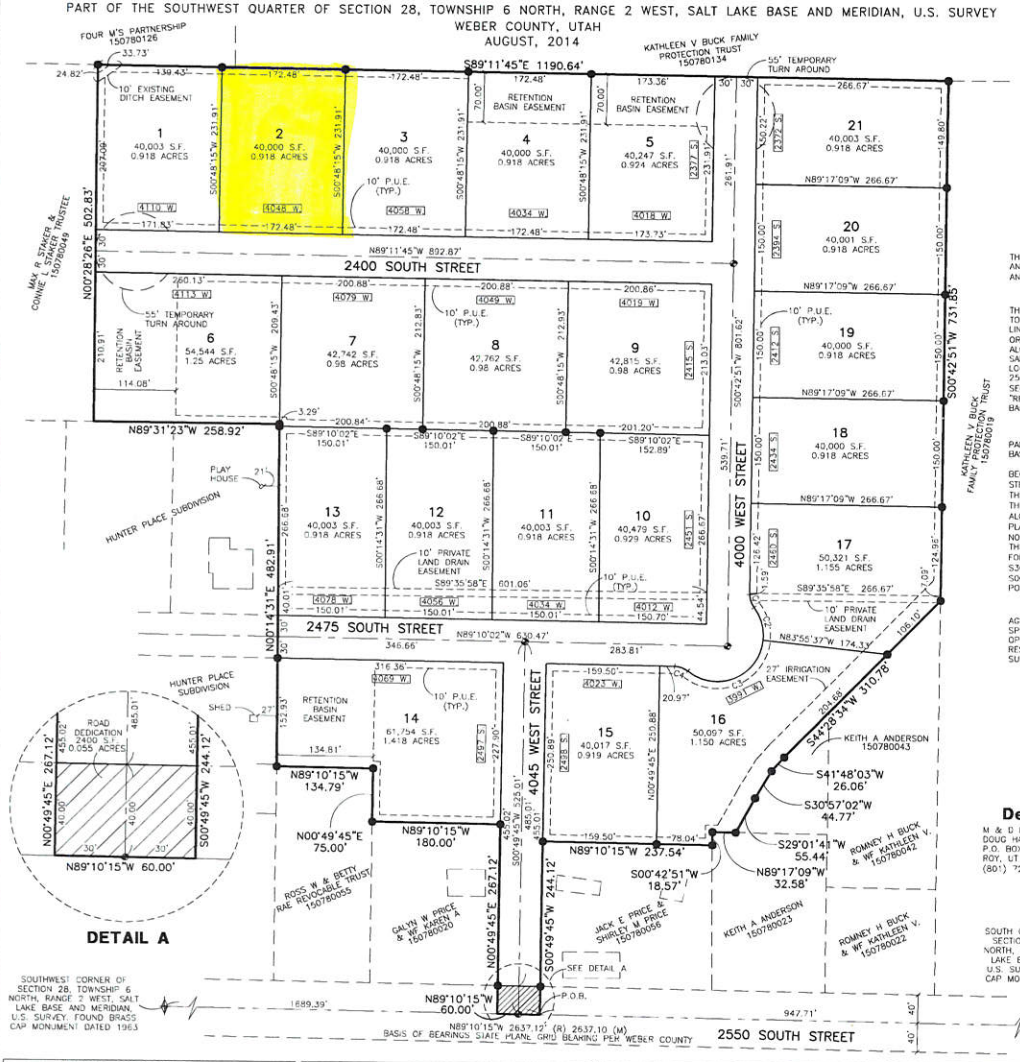
100 ft

Appendix A

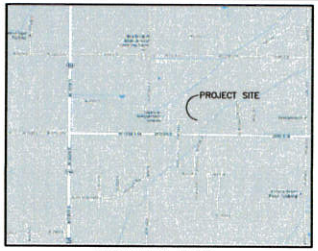
APPENDIX A: SWPPP General Location Map Zuech Residence.
Mallard Springs Lot 2.

MALLARD SPRINGS SUBDIVISION

PART OF THE SOUTHWEST QUARTER OF SECTION 28, TOWNSHIP 6 NORTH, RANGE 2 WEST, SALT LAKE BASE AND MERIDIAN, U.S. SURVEY
WEBER COUNTY, UTAH
AUGUST, 2014



DETAIL A



VICINITY MAP
NOT TO SCALE

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS PLAT IS THE SECTION LINE BETWEEN THE SOUTH QUARTER CORNER AND THE SOUTHWEST CORNER OF SECTION 28, TOWNSHIP 6 NORTH, RANGE 2 WEST, SALT LAKE BASE AND MERIDIAN, U.S. SURVEY, SHOWN HEREON AS: N89°10'15"W

NARRATIVE

THE PURPOSE OF THIS PLAT IS TO RE-ESTABLISH THE BOUNDARY OF THE EDWARD JAMISON PARCEL AND TO DIVIDE THE BELOW DESCRIBED PROPERTY INTO LOTS AND STREETS AS SHOWN. SOUTH BOUNDARY LINES WERE ESTABLISHED BY DEED CALLS TO THE NORTH LINE OF THE ADJOINERS PARCELS AND MORE OR LESS DISTANCES TO THE NORTH LINE OF 2550 SOUTH STREET. THE SOUTHEAST AREA/BOUNDARY ALONG THE NEW WILSON DITCH WAS DETERMINED BY PHYSICAL FIELD LOCATION AND THE CENTERLINE OF SAID DITCH WAS USED FOR THE BOUNDARY LINE. SEVERAL DISCREPANCIES EXIST BETWEEN THE ACTUAL LOCATION OF SAID DITCH AND THE DEEDS TO THE PARCELS ON BOTH SIDES THEREOF. DEEDS ALONG 2550 SOUTH STREET AND THE EAST ADJOINERS WERE ROTATED TO MATCH THE BEARING ALONG THE SECTION LINE. REAR LOT CORNERS WERE SET WITH A 5/8" X 24" REBAR AND PLASTIC CAP STAMPED "REEVE & ASSOCIATES". ALL FRONT LOT CORNERS WERE REFERENCED WITH A LEAD PLUG IN THE TOP BACK OF CURB AT THE EXTENSION OF THE SIDE LOT LINES.

BOUNDARY DESCRIPTION

PART OF THE SOUTHWEST QUARTER OF SECTION 28, TOWNSHIP 6 NORTH, RANGE 2 WEST, SALT LAKE BASE AND MERIDIAN, U.S. SURVEY, DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT WHICH LIES N89°10'15"W 947.71 FEET ON THE CENTERLINE OF 2550 SOUTH STREET FROM THE SOUTH QUARTER CORNER OF SAID SECTION 28; THENCE N89°10'15"W 60.00 FEET; THENCE N00°49'45"E 267.12 FEET; THENCE N89°10'15"W 180.00 FEET; THENCE N00°49'45"E 75.00 FEET; THENCE N89°10'15"W 134.79 FEET TO THE EASTERLY BOUNDARY OF HUNTER PLACE SUBDIVISION; THENCE ALONG SAID EASTERLY BOUNDARY N00°14'31"E 482.91 FEET TO THE NORTHERLY BOUNDARY OF HUNTER PLACE SUBDIVISION; THENCE ALONG SAID NORTHERLY BOUNDARY N89°31'23"W 258.92 FEET; THENCE N00°28'26"E 502.83 FEET; THENCE S89°11'45"E 1190.64 FEET; THENCE S00°42'51"W 731.85 FEET; THENCE TO THE CENTERLINE OF THE NEW WILSON DITCH; THENCE ALONG SAID DITCH CENTER TO THE FOLLOWING FOUR (4) COURSES: (1) S44°28'34"W 310.78 FEET; (2) S41°48'03"W 26.06 FEET; (3) S30°57'02"W 44.77 FEET; (4) S29°01'41"W 55.44 FEET; THENCE N89°17'09"W 32.58 FEET; THENCE S00°42'51"W 18.57 FEET; THENCE N89°10'15"W 237.54 FEET; THENCE S00°49'45"W 244.12 FEET TO THE POINT OF BEGINNING. CONTAINING 1,073,408 SQUARE FEET OR 24.642 ACRES

NOTE

AGRICULTURE IS THE PREFERRED USE IN THE AGRICULTURE ZONES. AGRICULTURAL OPERATIONS AS SPECIFIED IN THE LAND USE CODE FOR A PARTICULAR ZONE ARE PERMITTED AT ANY TIME INCLUDING THE OPERATION OF FARM MACHINERY AND NO ALLOWED AGRICULTURAL USE SHALL BE SUBJECT TO RESTRICTIONS ON THE BASIS THAT IT INTERFERES WITH ACTIVITIES OF FUTURE RESIDENTS OF THIS SUBDIVISION.

CURVE TABLE

#	RADIUS	ARC LENGTH	CHD LENGTH	TANGENT	CHD BEARING	DELTA
C1	30.00'	19.83'	19.47'	10.29'	S18°13'03"E	37°51'49"
C2	65.00'	49.03'	47.88'	25.75'	S15°32'18"E	43°13'20"
C3	65.00'	139.11'	114.04'	118.78'	S67°23'05"E	122°37'37"
C4	30.00'	19.83'	19.47'	10.29'	N70°14'07"W	37°51'49"

LEGEND

- = SECTION CORNER
- = SET 5/8"X24" REBAR AND CAP STAMPED "REEVE & ASSOCIATES"
- = SET CENTERLINE MONUMENT
- = BOUNDARY LINE
- = LOT LINE
- = ADJOINING PROPERTY
- = EASEMENTS
- = SECTION TIE LINE
- = ROAD CENTERLINE
- = ROAD DEDICATION
- = EXISTING STRUCTURE
- = PUBLIC UTILITY EASEMENT

P.U.E.

80 0 80 160 240
Scale: 1" = 80'

Developer:

M & D DEVELOPERS
DOUG HAMBLIN & JASON HAMBLIN
P.O. BOX 625
ROY, UT 84067
(801) 725-3782

SURVEYOR'S CERTIFICATE

I, ROBERT D. KUNZ, DO HEREBY CERTIFY THAT I AM A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF UTAH IN ACCORDANCE WITH TITLE 58, CHAPTER 22, PROFESSIONAL ENGINEERS AND LAND SURVEYORS ACT; AND THAT I HAVE COMPLETED A SURVEY OF THE PROPERTY DESCRIBED ON THIS PLAT IN ACCORDANCE WITH SECTION 17-23-17 AND HAVE VERIFIED ALL MEASUREMENTS, AND HAVE PLACED MONUMENTS AS REPRESENTED ON THIS PLAT, AND THAT THIS PLAT OF MALLARD SPRINGS SUBDIVISION IN WEBER COUNTY, UTAH, HAS BEEN DRAWN CORRECTLY TO THE DESIGNATED SCALE AND IS A TRUE AND CORRECT REPRESENTATION OF THE HEREIN DESCRIBED LANDS INCLUDED IN SAID SUBDIVISION, BASED UPON DATA COMPILED FROM RECORDS IN THE WEBER COUNTY RECORDER'S OFFICE AND FROM SAID SURVEY MADE BY ME ON THE GROUND. I FURTHER CERTIFY THAT THE REQUIREMENTS OF ALL APPLICABLE STATUTES AND ORDINANCES OF WEBER COUNTY CONCERNING ZONING REQUIREMENTS REGARDING LOT MEASUREMENTS HAVE BEEN COMPLIED WITH.

SIGNED THIS _____ DAY OF _____, 20____

REGISTERED LAND SURVEYOR 150228-2201 ROBERT D. KUNZ STATE OF UTAH

150228-2201
UTAH LICENSE NUMBER

ROBERT D. KUNZ

OWNERS DEDICATION AND CERTIFICATION

WE THE UNDERSIGNED OWNERS OF THE HEREIN DESCRIBED TRACT OF LAND, DO HEREBY SET APART AND SUBDIVIDE THE SAME INTO LOTS AND STREETS AS SHOWN ON THE PLAT AND NAME SAID TRACT MALLARD SPRINGS SUBDIVISION, AND DO HEREBY DEDICATE TO PUBLIC USE ALL THOSE PARTS OR PORTIONS OF SAID TRACT OF LAND DESIGNATED AS STREETS, THE SAME TO BE USED AS PUBLIC THOROUGHFARES AND ALSO TO GRANT AND DEDICATE A PERPETUAL RIGHT AND EASEMENT OVER, UPON AND UNDER THE LANDS DESIGNATED HEREON AS PUBLIC UTILITY, STORM WATER DETENTION PONDS DRAINAGE EASEMENTS AND CANAL MAINTENANCE EASEMENT, THE SAME TO BE USED FOR THE INSTALLATION MAINTENANCE AND OPERATION OF PUBLIC UTILITY SERVICE LINE, STORM DRAINAGE FACILITIES, IRRIGATION CANALS OR FOR THE PERPETUAL PRESERVATION OF WATER CHANNELS IN THEIR NATURAL STATE WHICHEVER IS APPLICABLE AS MAY BE AUTHORIZED BY THE GOVERNING AUTHORITY, WITH NO BUILDINGS OR STRUCTURES BEING ERECTED WITHIN SUCH EASEMENTS AND HEREBY GRANT A TEMPORARY TURN AROUND EASEMENT AS SHOWN HEREON TO BE USED BY THE PUBLIC UNTIL SUCH TIME THAT THE ROAD IS EXTENDED. THE TEMPORARY TURN AROUND EASEMENT SHALL BE REVOKED AND NULLIFIED AT THE EVENT OF THE EXTENSION OF THE ROAD WITHOUT FURTHER WRITTEN DOCUMENT AND THE ENCUMBERED LAND WITHIN THE AFFECTED LOTS SHALL BE RELEASED FOR FULL AND EXCLUSIVE USE AND BENEFIT OF THE LOT OWNERS.

SIGNED THIS _____ DAY OF _____, 20____

HAMBLIN INVESTMENTS

ACKNOWLEDGMENT

STATE OF UTAH)ss.
COUNTY OF _____)

ON THE _____ DAY OF _____, 20____ PERSONALLY APPEARED BEFORE ME, THE UNDERSIGNED NOTARY PUBLIC, _____ (AND) _____ SIGNER(S) OF THE ABOVE OWNER'S DEDICATION AND CERTIFICATION, WHO BEING BY ME DULY SWORN, DID ACKNOWLEDGE TO ME _____ SIGNED IT FREELY, VOLUNTARILY, AND FOR THE PURPOSES THEREIN MENTIONED.

COMMISSION EXPIRES

NOTARY PUBLIC

ACKNOWLEDGMENT

STATE OF UTAH)SS.
COUNTY OF _____)

ON THE _____ DAY OF _____, 20____ PERSONALLY APPEARED BEFORE ME, THE UNDERSIGNED NOTARY PUBLIC, _____ (AND) _____ BEING BY ME DULY SWORN, ACKNOWLEDGED TO ME THEY ARE _____ AND _____ OF SAID CORPORATION AND THAT THEY SIGNED THE ABOVE OWNER'S DEDICATION AND CERTIFICATION FREELY, VOLUNTARILY, AND IN BEHALF OF SAID CORPORATION FOR THE PURPOSES THEREIN MENTIONED.

COMMISSION EXPIRES

NOTARY PUBLIC

Reeve & Associates, Inc.
920 OWNERS STREET, SUITE 14, OGDEN, UTAH 84403
TEL (801) 621-3100 FAX (801) 621-2666 www.reeve-assoc.com

Project Info.
Surveyor: R. KUNZ
Designer: N. ANDERSON
Begin Date: 11-07-13
Name: MALLARD SPRINGS SUBDIVISION
Number: 3442-A30
Revision: 9-29-14 NA
Scale: 1"=80'
Checked:

WEBER COUNTY PLANNING COMMISSION APPROVAL

THIS IS TO CERTIFY THAT THIS SUBDIVISION PLAT WAS DULY APPROVED BY THE WEBER COUNTY PLANNING COMMISSION. SIGNED THIS _____ DAY OF _____, 20____

CHAIRMAN, WEBER COUNTY PLANNING COMMISSION

WEBER COUNTY ENGINEER

I HEREBY CERTIFY THAT THE REQUIRED PUBLIC IMPROVEMENT STANDARDS AND DRAWINGS FOR THIS SUBDIVISION CONFORM WITH THE COUNTY STANDARDS AND THE AMOUNT OF THE FINANCIAL GUARANTEE IS SUFFICIENT FOR THE INSTALLATION OF THESE IMPROVEMENTS.

WEBER COUNTY ENGINEER

WEBER COUNTY COMMISSION ACCEPTANCE

THIS IS TO CERTIFY THAT THIS SUBDIVISION PLAT, THE DEDICATION OF STREETS AND OTHER PUBLIC WAYS AND FINANCIAL GUARANTEE OF PUBLIC IMPROVEMENTS ASSOCIATED WITH THIS SUBDIVISION, THEREON ARE HEREBY APPROVED AND ACCEPTED BY THE COMMISSIONERS OF WEBER COUNTY, UTAH.
SIGNED THIS _____ DAY OF _____, 20____

CHAIRMAN, WEBER COUNTY COMMISSION

ATTEST

WEBER COUNTY SURVEYOR

I HEREBY CERTIFY THAT THE WEBER COUNTY SURVEYOR'S OFFICE HAS REVIEWED THIS PLAT FOR MATHEMATICAL CORRECTNESS, SECTION CORNER DATA, AND FOR HARMONY WITH LINES AND MONUMENTS ON RECORD IN COUNTY OFFICES. THE APPROVAL OF THIS PLAT BY THE WEBER COUNTY SURVEYOR DOES NOT RELIEVE THE LICENSED LAND SURVEYOR WHO EXECUTED THIS PLAT FROM THE RESPONSIBILITIES AND/OR LIABILITIES ASSOCIATED THEREWITH.
SIGNED THIS _____ DAY OF _____, 20____

WEBER COUNTY SURVEYOR

WEBER COUNTY ATTORNEY

I HAVE EXAMINED THE FINANCIAL GUARANTEE AND OTHER DOCUMENTS ASSOCIATED WITH THIS SUBDIVISION PLAT, AND IN MY OPINION THEY CONFORM WITH THE COUNTY ORDINANCE APPLICABLE THERETO AND NOW IN FORCE AND AFFECT.
SIGNED THIS _____ DAY OF _____, 20____

WEBER COUNTY ATTORNEY

WEBER-MORGAN HEALTH DEPARTMENT

I HEREBY CERTIFY THAT THE SOILS, PERCOLATION RATES, AND SITE CONDITIONS FOR THIS SUBDIVISION HAVE BEEN INVESTIGATED BY THIS OFFICE AND ARE APPROVED FOR ON-SITE WASTEWATER DISPOSAL SYSTEMS.
SIGNED THIS _____ DAY OF _____, 20____

WEBER-MORGAN HEALTH DEPARTMENT

Weber County Recorder

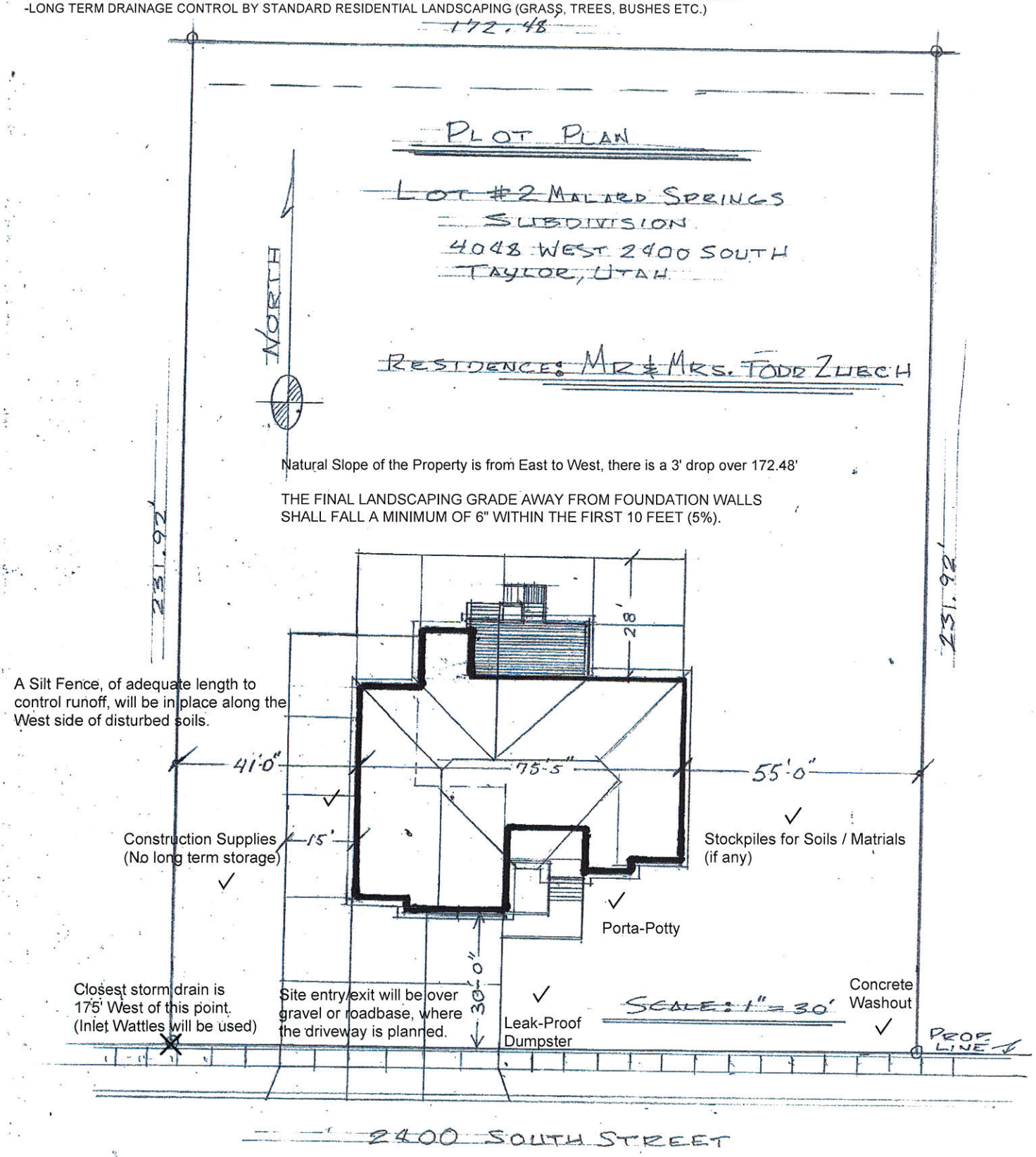
Entry No. _____ Fee Paid
_____ Filed For Record
And Recorded, _____
At _____ In Book _____
Of The Official Records, Page _____
Recorded For: _____

Weber County Recorder

_____ Deputy

APPENDIX B: SWPPP Site Map, Zuech Private Residence

NOTE:
-APPOXIMATELY 8100sf OF THE LOT (40,000sf/.92ac) WILL BE DISTURBED DURING THE CONSTRUCTION OF THE ZUECH RESIDENCE.
-LOCATIONS ON PLAT: DESIGNATED CLEAN OUT PIT, DUMPSTER, MATERIAL STAGING AREA, PORTA-POTTY, CLOSEST STORM DRAIN, SITE ENTRANCE ETC.
-SILT FENCING AND/OR OTHER WATER & SEDIMENT RETENTION METHODS WILL BE USED TO PREVENT DIRT & DEBRIS FROM RUNNING OFF OF THE SITE AND ENTERING NEIGHBORING PARCELS OR STORM DRAINS THROUGHOUT CONSTRUCTION.
-ALL STORM WATER AND DIRT WILL BE KEPT ON SITE DURING CONSTRUCTION UNTIL FINAL LANDSCAPING IS DONE.
-LONG TERM DRAINAGE CONTROL BY STANDARD RESIDENTIAL LANDSCAPING (GRASS, TREES, BUSHES ETC.)



-OWNER/BUILDER WILL BE HELD RESPONSIBLE FOR ENSURING DIRT/MUD REMIANS ON SITE DURING BAD WEATHER, ANDIS NOT TRACKED INTO THE STREET.
-SUBCONTRACTORS WILL CLEAN UP AFTER THEMSELVES EVERY DAY, AND AT THE COMPLETION OF THEIR PORTION OF CONSTRUCTION.

APPENDIX C: Construction General Permit Regulation

APPENDIX D: Acknowledgement Letter from City Name Here.

General Permit for Storm Water Discharges from Construction Activities

STATE OF UTAH, DEPARTMENT OF ENVIRONMENTAL QUALITY,
DIVISION OF WATER QUALITY

General Storm Water Permit for Construction Activity
Connected with Single Lot Housing Projects
Utah Pollution Discharge Elimination System Permit No. UTRH00000
(Common Plan Permit)

This Permit is issued in compliance with the provisions of the Utah Water Quality Act (Utah Code Annotated 19-5, as amended) the federal Water Pollution Control Act (33 United States 1251 et. seq., as amended by the Water Quality Act of 1987, Public Law 100-4), and the rules and Regulations made pursuant to those statutes.

This permit applies to "construction activity" for a single lot disturbing a total of one acre or less and for construction activities related to residential dwellings. A single lot covered by this permit is part of a common plan of development or sale (see definitions in Part 6).

Issuance of this permit does not authorize any permittee to violate water quality standards. The permittee shall develop best management practices (BMPs) and engage in activities that will protect water quality during the construction project.

This permit shall become effective on February 1, 2016.

This permit and the authorization to discharge expire at midnight on January 31, 2021.

Signed this 20 day of January, 2016

Walter L. Baker, P.E.
Director

DWQ-2016-002081 JS

TABLE OF CONTENTS

1. COVERAGE UNDER THIS PERMIT. Conditions for coverage under this permit.

1.1. Coverage Limitations. A project site (see definition of a project site in Part 6) is eligible for this permit if it meets the following requirements:

1.1.1. It is found within the State of Utah but is not in Indian Country,

1.1.2. The construction activity is related to residential building on an individual lot or parcel.

1.1.3. It disturbs a total of one acre or less over the duration of the construction project,

1.1.4. *Multiple site coverage*:

1.1.4.a. This permit may apply to multiple lots with the contingency that each lot be covered under a different permit tracking number (separate permit coverage for each lot). Lots do not necessarily need to be located within the same sub-division.

1.1.4.b. If multiple lot coverage is desired under one permit, it may be obtained under the General Permit for Discharges from UPDES Permit No. UTRC00000. Multiple lots may be covered under one tracking number (one permit coverage) provided that UTRC00000 is the controlling permit, and all lots covered under that tracking number are within the same sub-division.

1.2. Discharges Allowed. This permit allows discharges of storm water from construction activity at a project site, provided the storm water discharge meets the requirements within this permit.

1.3. Non-Storm Water Discharges. Other non-storm water discharges that are allowed are:

1.3.1. Flushings from potable or irrigation water sources where they have not been used for a washing or cleaning activity;

1.3.2. Water used for dust control;

1.3.3. Spring water and groundwater that have not been soiled with sediment or other pollutants from construction activity;

1.3.4. Emergency fire-fighting activities, and;

1.3.5. Footing drains that have not been soiled from construction activity.

1.4. How to Obtain Permit Coverage. The permit may be obtained online at the Utah Department of Environmental Quality (DEQ) UPDES Permits website at http://www.waterquality.utah.gov/UPDES/stormwatercon.htm. Click on "Application for a Storm Water Permit". Create an account, or if an account has already been created, proceed with providing the information requested. **The notice of intent (NOI) for this permit is the same NOI that is used for the UTRC00000 permit.** To complete the application process the permittee must pay a permit fee. The NOI may be filled out electronically using the online permit application system. The NOI can also be submitted using a paper form obtained from the same website cited above along with the permit fee. The paper form and fee can either be hand delivered to Utah Division of Water Quality [DWQ], 195 North 1950 West, Salt Lake City, Utah, 3rd floor in the MASOB building, or mailed to DWQ, P.O. Box 144870, Salt Lake City, Utah 84114-4870. When a party receives coverage under the permit, they will receive a permit

tracking number and the opportunity to copy the NOI for "proof of coverage." A copy of this permit may be downloaded from the DEQ website at http://www.deq.utah.gov/Permits/water/updes/stormwatercon.htm.

1.5. Signature on the NOI. The owner and the general contractor, which in some cases could be the same party, must sign the paper copy of the NOI (see 5.16.1.a) and place it in the storm water pollution prevention plan (SWPPP) (see 4.2.8).

1.6. Permit Renewal. This permit must be renewed yearly on the anniversary date of the original permit application. This is done by logging onto the account created at the time of NOI application, refreshing the information on the NOI, and paying the yearly permit fee.

1.7. Start and end of Permit Coverage. Permit coverage begins immediately upon completion and submission of an NOI and the permit fee. If the NOI is submitted electronically on-line permit coverage begins on that day. If the NOI is submitted by mail permit coverage begins when the NOI is received and entered into the on-line data base by DWQ staff. For projects within the jurisdiction of a regulated MS4 (see definitions in Part 6; the list of regulated MS4's is found on http://www.deq.utah.gov/Permits/water/updes/stormwatermun.htm), the permittee must also notify and receive approval for the project from the regulated MS4 having jurisdiction before the project may commence (see 4.2.10.). The permit fee is an annual fee that must be paid yearly on the anniversary date of permit issuance. The permit will remain effective until or unless any of the following occurs:

1.7.1. The permittee completes the notice of termination (NOT) process, as outlined in section 1.8,

1.7.2. The permittee fails to submit the yearly permit fee,

1.7.3. Aside from permit coverage, which may be renewed annually by the permittee, as needed, this general permit expires every 5 years and normally is renewed through a public notice process by DWQ. In the event that the permit nears the end of its 5 year cycle, and the year of permit coverage for a construction site extends beyond the expiration date for the permit, the permittee must request continuing coverage through the permit renewal process. Otherwise permit coverage for a construction site will terminate when the general permit expires. Renewal of permit coverage can be done in the online electronic storm water data base up to 12 months prior to the expiration of the permit, or by letter received by DWQ before the expiration date of the specific permit coverage in question where concurrently all entries in the NOI can be updated as needed.

1.7.3.a. If a renewal permit has been issued and is in place at the expiration date of this permit, this permit will terminate and coverage under the renewed permit will begin on the expiration date unless 1.7.1 has been invoked by the permittee.

1.7.3.b. If a renewal permit has not been issued, this permit will be administratively extended until a renewal permit is issued or it is determined that this permit will not be continued. If a renewal permit is issued, and the permittee indicated a desire for continuing coverage under the new permit, coverage

will continue for the permittee under the new permit coverage unless 1.7.1 is invoked. If the permit is discontinued, the permittee must continue coverage under another general permit or an individual permit.

1.7.4. Coverage under this permit is rescinded or revoked for administrative reasons. In this case, the permittee will be notified in writing from the Director and will be required to apply for coverage under a different general or individual UPDES permit. This permit is terminated on the day coverage under another permit begins.

1.8. Notice of Termination. The permittee must terminate the permit by submitting an NOT when the project is completed. The NOT must be filed and retained for 3 years after the permit has been terminated (see 3.7). To terminate the permit, the permittee must comply with either 1.8.1 or 1.8.2, outlined below, and must comply with 1.8.3 if the project is within the jurisdiction of a regulated MS4 (see http://www.deq.utah.gov/Permits/water/updes/stormwatermun.htm for regulated MS4s):

1.8.1. The landscaping is completed and the site meets "final stabilization" requirements (see part 6, definitions, for final stabilization).

1.8.2. When a project (residential building) is completed but 'final stabilization' is not established, the building must be in process of being sold and ready for homeowners to take possession. If built by the homeowners, they must be in the process of moving in or already have moved in the house. The lot must have perimeter controls on downslope boundaries and surface stabilization controls on all surfaces that are 20 % (1 to 5 slope, or 11.3 derees) or greater to prevent erosion and soil migration offsite;

1.8.3. The permittee must submit a paper copy of a NOT form to the MS4 of jurisdiction and schedule a final inspection (with the MS4). Termination is complete upon approval of the final inspection from the local MS4, or from DWQ if outside the jurisdiction of a regulated MS4.

1.9. Water Quality: Through the design of appropriate BMPs, it is expected that the permittee will achieve compliance with water-quality standards. If additional information becomes available indicating a project site is causing or is contributing to a violation of water quality standards or an existing total maximum daily load (TMDL), coverage under this permit may be revoked or rescinded, and the permittee may be required to get coverage under an individual UPDES permit or another UPDES general permit. If this occurs, the owner and the general contractor will be notified in writing by the Director and given instructions on how they must proceed.

1.10. Requirement to Post a Notice of Permit Coverage. The permittee must post a sign at the project site that includes the UPDES Permit tracking number, owner or general contractor contact name, a phone number for the owner or general contractor, an email address for the owner or general contractor, and in the case of an electronic SWPPP, a web address or information on how to access the electronic SWPPP. The notice must be posted with lettering large enough to be readable from a public right-of-way.

2. POLLUTION PREVENTION REQUIREMENTS

2.1. Structural Controls. Minimize sediment transport off the site as follows:

2.1.1. *Stockpiled Material.* Stockpiled material must not be stored on an impervious surface, except a material that will not be transported with precipitation, such as two-inch graded and washed gravel, unless it will be permanently placed and the holding area will be swept clean the same day it is dropped. If stored temporarily for more than a day, it must be placed as far as feasibly possible from roads or other impervious surfaces, storm water inlets, or water bodies, and with stockpile perimeter runoff controls utilized.

2.1.2. *Perimeter Controls.* Perimeter controls such as silt fences, straw wattles, other filter berms, cut back curbs, vegetative buffers, etc., must be properly placed on the downslope sides of the project to prevent sediment from leaving the site during a storm event. As perimeter controls become loaded to 1/3 of capacity, they must be cleaned.

2.1.3. *Inlet Protection.* Storm-drain inlets on the project site and on adjacent roads immediately down gradient from the site must be protected if they receive drainage from the active constructionsite. Protection may be, but is not limited to, rock wattles, sand bags, proprietary devices, or other. Rock wattles and sand bags are not advised for use in winter because they can be destroyed or removed by snow plows.

2.2. Protection of Critical or Sensitive Areas: Critical or sensitive areas such as preservation of the drip line around trees, wetlands, buffer zones by water bodies, etc., must be separated and isolated by clearly marking the areas with environmental fencing.

2.3. Managing the Site to Minimize Sediment Transport Offsite.

2.3.1. The total area of soil disturbance at any one time must be minimized by disturbing only the area necessary to complete that stage of construction in the construction process.

2.3.2. Soil disturbances on steep slopes must be minimized. For purposes of this permit a steep slope is 70% (or 1 to 1.66, or 35 degrees), or greater. This means avoiding a disturbance of soils on steep slopes or if disturbing the soil surface is necessary providing a robust surface stabilizing cover (such as geomats, environmental blankets, or other robust slope stabilizing control) to prevent erosion.

2.3.3. Storm water volume and velocity must be controlled to minimize soil erosion and sediment transport by methods such as allowing or not obstructing infiltration and using velocity-control devices to reduce energy in runoff flowing on slopes.

2.3.4. Storm water discharges leaving the site, including both peak flowrates and total storm water volume, must be controlled to minimize channel and stream-bank erosion and scour in the immediate vicinity of discharge points. This may be accomplished using experience, estimates, and good judgement; unless unusual or extraordinary site conditions present a potential for excessive erosion, hillside/impoundment collapse, environmental/safety hazards, or other site problems; for which a professional engineer must be consulted.

2.3.5. *Thirty-Foot Vegetative Buffer*. If a waterbody is adjacent to, within 30 feet from, or passing through the project boundaries, a 30-foot natural buffer between the waterbody and construction activity must be provided. If a 30-foot natural buffer cannot be provided, a substitute control measure equivalent to the 30-foot buffer must be provided, or the SWPPP must contain an explanation why neither is feasible. If it is not feasible to maintain a 30-foot natural buffer, as much natural buffer as is possible must be preserved and coupled with placement of additional erosion and sediment controls designed, implemented, and maintained to substitute and be equivalent to the 30-foot natural buffer.

The requirement for a natural buffer or substitute controls does not apply to any area outside of the project boundaries, but if a waterbody is within, for example, 20 feet from the project boundary, there must be 10 feet of natural vegetative buffer or substitute controls, or if within 25feet from the project boundary, there must be 5 feet of natural vegetative buffer or substitute controls, and so forth.

2.3.5.a. Substitution for a natural buffer should be calculated with models such as USDA's RUSLE2 or WEPP, or by using SEDCAD, SEDIMOT, or other similar models. In lieu of using a model for calculation of a substitution buffer, the permittee shall deploy the following:

2.3.5.a.i. For every full 9 feet of natural buffer that is not provided on slopes up to 10 percent, one row of an effective perimeter control, such as a silt fence, staked straw wattle, proprietary or other filter berm, or other perimeter control, must be properly placed. For example, if only 15 feet of natural buffer can be provided, the permittee will substitute one row of a perimeter control in addition to the 15 feet of natural buffer to make up for the 15 feet of buffer that could not be preserved.

2.3.5.a.ii. In addition to the requirements above for substitutions in place of the 30-foot natural buffer, on slopes between 10 percent and 30 percent, five feet of surface stabilization must be placed down gradient of and between each perimeter control substituted. For slopes steeper than 30 percent, 6 feet of surface stabilization must be placed downgradient of and between each perimeter control substituted, such as mulch, hydromulch, wood chips, bark, compost, erosion mat, etc., but excluding tackifiers.

2.4. Good Housekeeping Measures. The permittee must address the following:

2.4.1. *Track Out*. Track-out pads (see definitions) and or rumble strips (see definitions) must be used to prevent dirt/mud tracked on streets as vehicles leave the site. If traffic onto and off the site is not frequent, a site operator may impose a blanket prohibition of vehicle traffic onto the site, allowing for the occasions to deliver and unload, but afterwards providing sweeping and/or cleaning of tracked out dirt (keep in mind that vehicles leaving a muddy site with no track out protection can track mud for several

blocks – the operator is liable for all track out from the site except for a dirt stain after sweeping -- see note after 3.2.2.). Dirt or mud tracked out on the street must not be washed or hosed into a storm drain. Tracked out mud or dirt on the street must be swept and/or scraped up as needed every day (see 3.2.2).

2.4.2. *Curb Ramps*: This permit prohibits the intentional placement of dirt and/or mud on paved streets or sidewalks. Curb ramps may be crushed rock, wood or steel ramps, or another material that does not wash away with storm water.

2.4.3. *Waste and Debris*. The site must be cleaned of waste and debris daily (see daily self-inspection 3.2.2). Waste and debris must be contained and secured adequately to prevent scattering from wind until it is removed from the site and disposed of properly.

2.4.4. *Portable Toilet*. Portable toilets must be tied down, staked down, or secured using other measures to prevent turn over, and they must be placed away from a road gutter, storm water inlet, or waterbody.

2.4.5. *Washing of Concrete, Stucco, and Paint Equipment*. A plastic film-lined pit or sealed container must be provided for washout of equipment used for concrete, stucco, and water-based paint. After completion of concrete, stucco, and paint tasks, the permittee must dispose of the waste by drying and sending solids to a landfill. Oil-based paint cleanout must be done in containers, taken off-site, and disposed of separately.

2.5. Soil Compaction/Top Soil. Topsoil must be preserved and placed on areas to be landscaped or areas planned for receiving vegetative cover, unless infeasible. Soil compaction must be minimized on areas that will not be used for support of structural elements such as roads, parking areas, structures, etc., unless infeasible.

2.6. Stabilization Requirement. Stabilization requirements are as follows:

2.6.1. *Stabilization requirements for areas that receive 20 inches of rainfall annually or greater*: Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have permanently ceased on any portion of the site or have temporarily ceased on any portion of the site for greater than 14 calendar days. Stabilization can be sodding, planting, application of mulch (wood chips, rock, gravel, bark, compost, cat tracking on straw, hydromulch, etc.), application of geotextiles or erosion blankets, application of a tackifier, seeding (including preparation for germination and growth), a combination of these methods, or other method.

2.6.2. *Stabilization or equivalent requirements for arid and semi-arid areas (areas receiving less than 20 inches of rainfall annually)*: Stabilization for visually flat areas is not required (roughly up to 5 percent, 1 to 20 slope, or 2.3 degrees slope). Areas with slopes up to roughly 20 percent (1 to 5 slope or 11.3 degrees) must have, at minimum, velocity-control devices in every area where storm water collects and flows, spaced close enough across the flow to stop erosion (see also 2.3.3). Soil surface stabilization such as sodding, planting, hydromulch, compost, bark, cat tracking on straw, gravel,

geotextiles, erosion blankets, or other stabilization methods is required on all other sloped areas, increasing the robust nature of stabilizing cover commensurately with increasingly steeper slopes.

2.6.3. *Permanent Stabilization for Arid areas.*

2.6.3.a. In addition to requirements above (see 2.6.2), permanent stabilization requires seeding on all areas that are not covered with permanent stabilization elements or structural elements such as building structure or pavement, or that are engineered or intended for structural purposes like graveled parking or dirt roads.

2.6.3.b. Disturbed areas on projects located outside of populated and developed areas and where no irrigation water is available and where future periodic landscaping maintenance is not planned must be reclaimed with a seed mix of plants indigenous to the area or tolerant to the local climatic conditions that does not include invasive species. Velocity-control devices may be permanent or temporary. If velocity-control devices are intended for temporary use, they must be biodegradable and designed durable enough to withstand extreme weather.

2.7. Construction Dewatering. Construction dewatering can occur onsite without an additional UPDES permit if it is infiltrated or contained onsite and is not discharged offsite. Otherwise, construction dewatering discharges must be permitted under the General Permit for Construction Dewatering and Hydrostatic Testing UPDES Permit UTG070000, which can be obtained online through submittal of an NOI at https://secure.utah.gov/waterquality.

2.8. Pollution Prevention Measures. The permittee must design, install, implement, and maintain effective pollution prevention measures to minimize the discharge of pollutants. At a minimum, such measures must address the following:

2.8.1. *Vehicle, Wheel, and Other Washing.* Minimize the discharge of pollutants from equipment and vehicle washing, wheel-wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge

2.8.2. *Exposure to Pollutants.* Minimize the exposure of building materials, building products, construction wastes, trash (see 2.4.3), landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste (see 2.4.4), and other materials present on the site to precipitation and to storm water. Minimization of exposure is not required in cases where the exposure to precipitation and to storm water will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of storm water contamination (e.g., final products and materials intended for outdoor use).

2.8.3. *Leaks and Spills.* Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.

2.9. Prohibited Discharges. The following discharges are prohibited:

2.9.1. Wastewater from washout or cutting of concrete (see 2.4.5),

2.9.2. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials (see 2.4.5),

2.9.3. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance,

2.9.4. Soaps or solvents used in vehicle and equipment washing.

3. SELF-INSPECTION REQUIREMENTS.

3.1. Inspector Qualifications. Weekly inspections (see 3.2.1 below) must be done by a qualified person. A qualified person means a person knowledgeable in the principles and practices of erosion and sediment control that possesses the skills to:

3.1.1. Assess conditions at the construction site that could impact storm water quality,

3.1.2. Assess the effectiveness of a storm water control measure selected to control the quality of storm water discharges from the construction activity.

3.2. Self-Inspections.

3.2.1. *Weekly Self Inspections*: Self-inspections must occur every 7 days. A written report is required (see 3.4).

3.2.2. *Daily Site Check*: Each day of construction activity, the site must be inspected for dirt in the street and trash on the site. Streets must be swept clean (see note below), if soiled. Dirt must be removed off the street (not swept or washed into the storm drain system). Trash on the site must be picked up and disposed of into trash containers (see 2.4.3.) or disposed of off-site (e.g., municipal/private garbage collection service or construction waste landfill). Sub-contractors must be held responsible by the permit holder to perform these duties in accordance with this paragraph for the activities they are contracted to perform. A written report is not required, however the operator will keep a daily log (for the active construction days) listing the initials of the person doing the site check.

Note: Swept clean means sweeping and scraping. Scraping if there is dirt left behind that is crusted and that sweeping will not pick up. This does not mean removing the microscopic layer of dust or the minute amounts of dirt in the cracks and crevices of the surface left behind staining the pavement.

3.3. Weekly Self-Inspection Requirements.

3.3.1. *Areas to check include the following:*

3.3.1.a. Areas that have been cleared, graded, or excavated that are not stabilized,

3.3.1.b. All storm water control measures, including perimeter controls,

3.3.1.c. Material piles, waste-disposal containers, sanitary facilities, loose trash, litter, washout areas, portable toilets, track out pad, egress points (if any), etc.,

3.3.1.d. Storm water conveyances through the site, treatment areas, and drainages,

3.3.1.e. All storm water discharge points, street gutters, storm water inlets,

3.3.1.f. Areas that have been temporarily stabilized,

3.3.1.g. Areas that have been permanently stabilized and are completed do not need further inspections.

3.3.2. *Items to check include the following*:

3.3.2.a. All erosion and sediment controls and other pollution prevention controls

have been installed, are operational, and are working as intended to minimize pollutant discharges. Determine if any controls need to be replaced, repaired, or maintained.

3.3.2.b. Identify any locations where new or modified storm water controls are necessary.

3.3.2.c. Signs of visible erosion and sedimentation (i.e., sediment deposits) that have occurred and are attributable to discharges from your site,

3.4. Weekly Inspection Reports. The weekly self-inspection report must be written within 24 hours of inspection and must include:

3.4.1. The initials of the person doing the inspection,

3.4.2. The date of the inspection,

3.4.3. The weather during the inspection,

3.4.4. The problems that were found needing correction (as they pertain to 3.3.1 and 3.3.2 above),

3.4.5. The date when corrective action is completed,

3.4.6. All self-inspection reports must be filed with other permit records regarding the permit. Inspection reports must be available during an oversight inspection.

3.5. Corrective Action: Corrective action must be completed before the next weekly inspection.

3.6. Inspections by an Oversight Authority. A copy of an oversight inspection report must be filed and be available for review during other oversight inspections.

3.7. Record Keeping. Records regarding this permit, the NOI, the NOT, the SWPPP, inspection reports, other related information and documents must be preserved for 3 years after the submission of the NOT (see 5.10).

4. STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

4.1. SWPPP Requirement. The permittee must prepare a SWPPP before the NOI for the project is submitted. The SWPPP must address all the applicable requirements in Part 2.

4.1.1. *SWPPP Site Design.* The design, installation, and maintenance of erosion and sediment controls must address factors such as the amount, frequency, intensity and duration of precipitation; the nature of resulting storm water runoff; and soil characteristics, including the range of soil particle sizes expected to be present onsite. These may be accomplished using experience, estimates, and good judgement, unless unusual or extraordinary site conditions create hazards for which a professional engineer must be consulted.

4.1.2. *Surface Outlets*: When discharging from basins and impoundments, utilize outlet structures that withdraw water from the surface, unless infeasible.

4.2. Contents of a SWPPP. A SWPPP must contain the following:

4.2.1. *Contacts.* The contacts for the site with contact information (name, address, telephone, email) including owner, general contractor, and any other party that significantly affects the implementation of the SWPPP or has responsibilities over the SWPPP.

4.2.2. *Sequence and Estimated Dates of Construction Activities.* Listed in the sequence with estimated dates including the following:

4.2.2.a. Start and end of excavation activities, initial excavation, backfill excavation and final grading,

4.2.2.b. Any temporary or permanent cessation of earth-disturbing activities,

4.2.2.c. Start and end of landscaping if this is done as part of the construction activity before the home is sold.

4.2.3. *Site Map or Chart.* A site map may be hand drawn (as close to scale as possible) or may be a copy of an architect drawing including the following information:

4.2.3.a. Boundaries of the property,

4.2.3.b. Boundaries of soil surface disturbances, including any outside the boundaries of the property,

4.2.3.c. Slopes, including areas of steep slopes,

4.2.3.d. Locations of stockpiles of soils, storage of construction materials, portable toilets, trash containers, concrete washout pits or containers, egress points, and track out pads,

4.2.3.e. Waterbodies, wetlands, and natural buffer areas,

4.2.3.f. Locations and types of BMPs or storm water control measures for the control and/or treatment of storm water flowing onto, through, and/or offsite,

4.2.3.g. Locations of storm water inlets, storm water discharge points going off site,

4.2.3.h. Areas that will be temporarily or permanently stabilized during the construction period.

4.2.4. *Thirty-Foot Natural Buffer*. The SWPPP must show the dimensions and placement of the 30-foot natural buffer, the substitute control measures, or a detailed explanation of why a natural buffer or substitute control measure could not be applied.

4.2.5. *Pollutants*. A list of construction site pollutants including the pollutant-generating activity, and an inventory of pollutants for each pollutant generating activity (e.g., paints, solvents, form oil, fuels, and other chemicals; applications, materials, and liquids that if released could pollute storm water).

4.2.6. *Waste Management*. Waste management procedures including soil removal, clearing debris removal, demolition removal, trash disposal, construction-waste disposal, and sanitary-waste disposal.

4.2.7. *Training*. The permittee will ensure that each subcontractor or utility provider is aware of their responsibilities for keeping soil on the site and preventing pollution. The permittee must keep in mind that they are responsible for and may be issued fines for poor performances by their subcontractors and utility providers. Consideration will be given if the permittee can document when and what instructions were given to the subordinate party.

4.2.8. *NOI and Permit*. The SWPPP must contain a copy of this permit and a copy of the NOI for the project.

4.2.9. *SWPPP Signature and Certification*. The SWPPP must be signed and certified by both the Owner and the General Contractor in accordance with 5.16.1.a.

4.2.10. *MS4 Approval of Project*. For areas where projects are within a regulated MS4's jurisdiction (see definitions in Part 6; the list of regulated MS4's is found on http://www.deq.utah.gov/Permits/water/updes/stormwatermun.htm), the SWPPP must contain the signature and date of the MS4 reviewer who has approved the proposed project for construction (see 1.7.).

4.2.11. *Availability of the SWPPP*. The SWPPP must be available at the construction site covered under this permit during onsite construction activity, unless the SWPPP is available online. If the SWPPP is available online there must be a sign (see 1.10) that describes where the SWPPP can be accessed online. The SWPPP is a plan for the site, and workers must be able to refer to the SWPPP and update it as needed to manage the site (including SWPPPs found on the internet). The SWPPP is not required to be on the site when construction workers leave for the day or when there is no activity occurring on the site, but at all times there must be posted contact information where the SWPPP can be obtained (see Part 1.10). The SWPPP must be made available within 24 hours to DWQ representatives or other oversight inspectors, e.g., U.S. Environmental Protection Agency [EPA] or a local MS4, on request, or immediately during an inspection on the site when there are workers and activity at the site.

4.2.12. *Required Modifications of the SWPPP*. The SWPPP must be modified as follows:

4.2.12.a. During inspections when it is determined from observations of site conditions that storm water control measures are:

4.2.12.a.i. Not adequate or not shown in the SWPPP, or

4.2.12.a.ii. Changes in the SWPPP are necessary for compliance with this permit.

4.2.12.b. When an oversight authority determines that the SWPPP is not adequate based on missing a required SWPPP or permit item, not addressing pollutants properly, not being up to date and reflecting current site conditions, or not being clear, thorough, and understandable.

4.2.13. *SWPPP Modifications Deadline*. Modifications to the SWPPP from inspections or oversight authority direction must occur before or during the next weekly inspection.

5. STANDARD PERMIT CONDITIONS.

5.1. Duty to Comply.

5.1.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Utah Water Quality Act (the Act) and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

5.1.2. *Penalties for Violations of Permit Conditions*

5.1.2.a. *Violations*. The Act provides that any person who violates the Act, Utah wastewater or storm water rules, or conditions of a permit issued under the Act, is subject to a fine of $10,000 per day.

5.1.2.b. *Willful or Gross Negligence*. The Act provides that any person who discharges a pollutant to waters of the State as a result of criminal negligence or who intentionally discharges is criminally liable and is subject to imprisonment and a fine of up to $50,000 per day (Utah Code Annotated 19-5-115).

5.1.2.c. *False Statements*. The Act provides that any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the Act, the rules, or this permit, or who knowingly falsifies, tampers with, or renders inaccurate, any monitoring device or method required to be maintained under the Act shall upon conviction, be punished by a fine of not more than $10,000 or by imprisonment for 6 months, or by both (Utah Code Annotated 19-5-115(4)).

5.2. Duty to Reapply. If a permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit except as provided in 1.6 and 1.7 of this permit.

5.3. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

5.4. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

5.5. Duty to Provide Information. The permittee shall furnish to the Director or an authorized representative, within a reasonable time, any information that is requested to determine compliance with this permit. The permittee must also furnish to the Director or an authorized representative copies of records to be kept by this permit.

5.6. Other Information. When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the NOI or in any other report to the Director, he or she shall promptly submit such facts or information.

5.7. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under the Act.

5.8. Property Rights. The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

5.9. Severability. The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

5.10. Record Retention. The permittee shall retain copies of SWPPPs and all reports required by this permit, and records of all data used to complete the NOI to be covered by this permit, for a period of at least three years from the date that the permit for the site is terminated (see 3.7). This period may be extended by request of the Director at any time.

5.11. Addresses. All written correspondence under this permit shall be directed to the DWQ at the following address:

Department of Environmental Quality
Division of Water Quality
195 North 1950 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870

5.12. State Laws. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Utah Code Annotated 19-5-117.

5.12.1. No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

5.13. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control and related appurtenances which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the requirements of SWPPPs. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the condition of the permit.

5.14. Inspection and Entry. The permittee shall allow, upon presentation of credentials, the Director or an authorized representative to:

5.14.1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;

5.14.2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit.

5.14.3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and

5.14.4. Sample or monitor at reasonable times for the purposes of assuring permit compliance or as otherwise authorized by law, any substances or parameters at any location.

5.15. Reopener Clause.

5.15.1. *Reopener Due to Water Quality Impacts*. If there is evidence indicating that the storm water discharges authorized by this permit cause, have the reasonable potential to cause, or contribute to a violation of a water-quality standard, the discharger may be required to obtain an individual permit or an alternative general permit in accordance with 1.7.4 of this permit or the permit may be modified to include different limitations and/or requirements.

5.15.2. *Reopener Guidelines*. Permit modification or revocation will be conducted according to Utah Administrative Code R317-8-5.6 and UAC R317-8-6.2.

5.15.3. *Permit Actions*. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification revocation and reissuance, termination, a modification of planned changes or anticipated noncompliance does not stay any permit condition.

5.16. Signatory Requirements.

5.16.1. All NOIs, SWPPPs, reports, certifications or information submitted to the Director, or that this permit requires be maintained by the permittee, shall be signed as follows:

5.16.1.a. All NOIs and SWPPPs shall be signed by both the owner or lessee of the project/property and the general contractor.

5.16.1.b. All reports required by the permit and other information requested by the Director or by an authorized representative of the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

5.16.1.b.i. The authorization is made in writing by a person described above and submitted to the Director; and

5.16.1.b.ii. The authorization specifies either an individual or a position having such as the position of manager, operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may therefore be either a named individual or any individual occupying a named position.

5.16.1.c. *Certification*. Any person signing documents under 5.16 shall make the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

5.16.2. If a document is to be signed electronically, the Division's rules regarding electronic transactions govern, if applicable.

6. DEFINITIONS

Arid Areas: Areas with an average annual rainfall of 10 inches or less.

Common Plan of Development (or sale): A plan to subdivide a parcel of land into separate parts for separate sale. This can be for a residential, commercial, or industrial development. The plan originates as a single parcel that is separated into parts. This usually goes through an approval process by a local governmental unit, but in some cases, it may not require that process. The original plan is considered the "common plan of development or sale" whether phased or completed in steps.

Additional information related to *Common Plan of Development for Permit Purposes*:

For UPDES storm water permit purposes, a common plan must have been initiated after October, 1992. A common plan of development or sale remains so until each lot or section of the development has fulfilled its planned purposes (e.g. in a residential development as homes are completed, stabilized, and sold or occupied). As lots or separated sections of the development are completed, the lot or section is stabilized, and the plan purposes are fulfilled for that area, lot, or section, it is no longer part of the common plan of development or sale (e.g. if a home is sold in a development and the owner decides to add a garage somewhere on the lot, that garage project is not part of the common plan of development or sale.

In this process a common plan of development or sale may become reduced in size and/or separated by completed areas which are no longer part of the common plan of development or sale, but all unfinished lots remain part of the same common plan development or sale until they are completed, stabilized, and fulfilled according to the purposes of the plan.

Construction Activity: Earth-disturbing activities, such as the clearing, grading, and excavation of land.

Construction Waste: Discarded material such as packaging materials, scrap construction materials, masonry products, timber, steel, pipe, and electrical cuttings, plastics, and Styrofoam.

Corrective Action: For the purposes of the permit, any action taken to 1) repair, modify, or replace any storm water control used at the site; 2) clean up and dispose of spills, releases, or other deposits found on the site; and 3) remedy a permit violation.

Dewatering: The act of draining rainwater and/or groundwater from building foundations, vaults, and trenches (Note: if dewatering is occurring on a construction site and it causes a discharge to waters of the State, it must be permitted separately under the General Permit for Construction Dewatering and Hydrostatic Testing , UPDES Permit UTG070000).

Director: The director of the Division of Water Quality.

Discharge Point: For the purposes of this permit, the location where collected and concentrated storm water flows are discharged from the construction site.

Final Stabilization: All disturbed areas must be covered by permanent structures such as pavement, concrete slab, building, etc., or for areas not covered by permanent structures but that are receiving 20 inches or more of average annual precipitation, vegetation has been established with a uniform (e.g.,

evenly distributed, without large bare areas) perennial vegetative cover equivalent to 70 percent of the natural background vegetative cover. In the case of areas that are not covered by permanent structures, but that are receiving less than 20 inches of average annual precipitation (arid areas, 0-10 inches; semi-arid areas, 10-20 inches), final stabilization is equivalent to the requirements of 2.6.3 of this permit, including the provisions for permanent stabilization.

Impervious Surface: For the purpose of this permit, any land surface with a low or no capacity for water infiltration including, but not limited to, pavement, sidewalks, parking areas, driveways, or rooftops.

Indian Country: Defined at 40 CFR §122.2 as follows:

1. All land within the limits of any Indian reservation under the jurisdiction of the United States Government, notwithstanding the issuance of any patent, and, including rights-of-way running through the reservation;

2. All dependent Indian communities within the borders of the United States whether within the originally or subsequently acquired territory thereof; and

3. All Indian allotments, the Indian titles to which have not been extinguished, including rights-of-ways running through the same.

Infeasible: Infeasible means not technologically possible or not economically practicable and achievable in light of best industry practices. DWQ notes that it is not intentional for permit storm water control efforts required in the permit to conflict with State water rights law.In the case of conflict, State water rights law supersedes.

Install or Installation: When used in connection with storm water controls, to connect or set in position storm water controls to make them operational.

Municipal Separate Storm Sewer System or MS4: A storm-sewer system owned and operated by a state, city, town, county, district, association, or other public body created by or pursuant to State law having jurisdiction over disposal of storm water that discharges to waters of the State (e.g., Sandy City owns and operates the MS4 within the jurisdiction of Sandy City, or essentially Sandy City is the MS4).

Natural Buffer: For the purposes of this permit, an area of undisturbed natural cover surrounding surface waters within which construction activities are restricted. Natural cover includes the vegetation, exposed rock, or barren ground that exists before earth-disturbing activities begin.

Oversight Authority: Oversight authorities for storm water permits are agents from the EPA, DWQ or the Municipality of jurisdiction, when they are addressing compliance of storm water permits.

Owner: For the purpose of this permit an owner has ownership of a property on which construction activity is taking place, but it also includes ownership of a project for which construction activity is occurring on property that is leased. An owner is the party that has ultimate control over construction plans and specifications, including the ability at the highest level to make modifications to those plans and specifications. "Owner" in this context is the party that has ultimate control over the destiny of a project.

Permittee: The owner and/or the general contractor (those that signed on the NOI), for the project.

Pollutant-Generating Activities: At construction sites, for the purposes of this permit, those activities that lead to or could lead to the generation of pollutants, either as a result of earth-disturbance or a related support activity. Some of the types of pollutants that are typically found at construction sites are as follows:

- Sediment
- Nutrients
- Heavy metals
- Pesticides and herbicides
- Oil and grease
- Bacteria and viruses
- Trash, debris, and solids
- Treatment polymers
- Any other toxic chemicals

Pollution Prevention Measures: Storm water controls designed to reduce or eliminate the addition of pollutants to construction site discharges through analysis of pollutant sources, implementation of proper handling/disposal practices, employee education, and other actions.

Project Site: A project site is not necessarily contained within the property boundaries designated for the final construction objective, or property owned by the owner of the project. The project site includes all areas affected by the construction process where disturbances, storage, or other construction activity occurs. If an area outside of property boundaries is used for the construction process, DWQ assumes the permittee has the right to access and use that area and the permittee must also meet permit requirements in that area.

Receiving Water: A "Water(s) of the State" is as defined in UAC R317-1-1, into which the regulated storm water discharges (see waters of the State listed below).

Rumble Strip: A rigid ramp/track (often made of steel) that vehicles drive over that causes tires to flex and shake for the removal of dirt.

Semi-Arid Areas: Areas with an average annual rainfall of between 10 and 20 inches.

Stabilization: The use of vegetative and/or non-vegetative cover to prevent erosion and sediment loss in areas of disturbed soil exposed from the construction process.

Storm water: Means storm water runoff, snowmelt runoff, and surface runoff and drainage.

Storm Water Control Measures: Refers to any storm water control, BMP, or other method used to prevent or reduce the discharge of pollutants to waters of the state.

Storm Water Inlet: An entrance or opening to a storm water conveyance system, generally placed below grade so as to receive storm water drainage from the surrounding area.

Storm Event: A precipitation event that results in a measurable amount of precipitation.

Track Out Pad: A track out pad is a pad normally made up of 4 to 6 inches of up to 6 inch cobble rocks or gravel of various size (the size is sometimes specified by a local MS4). Sometimes it is underlain with a fabric to keep dirt and mud separated from rock or gravel. It is wide enough to underlay the tires of any/all traffic leaving a construction site as vehicles exit the site. Its function is to flex and shake the tires to dislodge mud and dirt from the tires of vehicles leaving the construction site. Track out pads must be stirred or worked periodically so that mud or dirt collected is moved to the bottom and the rock/gravel on the pad is clean and effective dislodging more mud/dirt.

Waters of the State: All streams, lakes, ponds, marshes, watercourses, waterways, wells, springs, irrigation systems, drainage systems, and all other bodies or accumulations of water, surface and underground, natural or artificial, public or private, that are contained within, flow through, or border upon this state or any portion thereof, except that bodies of water confined to and retained within the limits of private property, and that do not develop into or constitute a nuisance, or a public health hazard, or a menace to fish and wildlife, shall not be considered to be "Waters of the State" under this definition (see Utah Code Annotated, 19-5-102(23)(a) &(b), and UAC R317-1-1).

STATE OF UTAH, DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER QUALITY
195 North 1950 West, P.O. Box 144870, Salt Lake City, Utah 84114-4870 (801) 536-4300

NOI

Notice of Intent (NOI) for Storm Water Discharges Associated with Construction Activity Under the UPDES General Permit No. UTR375545 SEE REVERSE FOR INSTRUCTIONS

Submission of this Notice of Intent constitutes notice that the party(s) identified in Section I of this form intends to be authorized by UPDES General Permit No. UTR375545 **issued for storm water discharges associated with construction activity in the State of Utah. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. ALL NECESSARY INFORMATION MUST BE PROVIDED ON THIS FORM.**

Is this NOI seeking continuation for previously expired permit coverage at the same site? Y ☐ N ☒
If yes, what is the number of the previous permit coverage? **Permit No.**

Permit Start Date 06/08/2016 **Permit Expiration Date:** 06/08/2017

I. OPERATOR INFORMATION

Name (Owner): Andrew Todd Zuech **Phone:** 801-388-9366
Address: 3560 S Midland Dr. **Status of Owner/Operator:** PRIVATE
City: WEST HAVEN **State:** UT **Zip:** 84401
Contact Person: Andrew Todd Zuech **Phone:** 801-388-9366

Name (Operator): Andrew Todd Zuech (Owner / Builder) **Phone:** 801-388-9366
Address: 3560 S. Midland Dr. **Status of Owner/Operator:** PRIVATE
City: WEST HAVEN **State:** UT **Zip:** 84401
Contact Person: Andrew Todd Zuech **Phone:** 801-388-9366

II. FACILITY SITE / LOCATION INFORMATION

Is the facility located in Indian Country? Y ☐ N ☒

Name: Zuech Private Residence
Project No. (if any):
Address: 4048 W. 2400 S. **County:** WEBER
City: WEBER COUNTY (UNINCORPORATED AREA) **State:** UT **Zip:** 84404
Latitude: 41.3059199 **Longitude:** -112.0376596
Method (check one): ☐ USGS Topo Map, Scale ☐ EPA Web site ☐ GPS ☒ Other

III. SITE INFORMATION

Municipal Separate Storm Sewer System (MS4) Operator Name: Unincorporated Weber County
Receiving Water Body: Great Salt Lake guess **this is known** ☐ **this is a guess** ☒
Estimate of distance to the nearest water body? 15 miles **ft.** ☐ **miles.** ☒
Is the receiving water an impaired or high quality water body (see http://wq.deq.utah.gov/)? **Yes** ☐ **No** ◉
List the Number of any other UPDES permits at the site:

IV. TYPE OF CONSTRUCTION (Check all that apply)

1. ☒ Residential 2. ☐ Commercial 3. ☐ Industrial 4. ☐ Road 5. ☐ Bridge 6. ☐ Utility
7. ☐ Contouring, Landscaping 8. ☐ Pipeline 9. ☐ Other (Please list)

INSTRUCTIONS

Notice Of Intent (NOI) For Permit Coverage Under the UPDES General Permit For Storm Water Discharges From Construction Activities

Who Must File A Notice Of Intent (NOI) Form State law at UAC R317-8-3.9 prohibits point source discharges of storm water from construction activities to a water body(ies) of the State without a Utah Pollutant Discharge Elimination System (UPDES) permit. The operator of a construction activity that has such a storm water discharge must submit a NOI to obtain coverage under the UPDES Storm Water General Permit. If you have questions about whether you need a permit under the UPDES Storm Water program, or if you need information as to whether a particular program is administered by EPA or a state agency, contact the storm water coordinator at (801) 536-4300.

Where To File NOI Form The preferred method of submitting an NOI to apply for the construction general storm water permit (CGP) is electronically on-line at http://www.waterquality.utah.gov/UPDES/stormwatercon.htm. The fee can be submitted on line also. If on-line is not an option for you send a paper form of the NOI to the following address:

Department of Environmental Quality
Division of Water Quality
P.O. Box 144870
Salt Lake City, UT 84114-4870

Beginning of Coverage CGP coverages are issued immediately after submitting an NOI with the permit fee. The permittee should be aware that though you may not have a permit in hand, if you have submitted a completed NOI with the permit fee you are covered by the conditions in the permit and will be expected to comply with permit conditions. You can print a copy of the CGP from the DWQ web site.

Permit Fees. The permit fee is $150.00 per year. The fee is paid by Visa/Master Card on-line when an NOI is filed (by check if submitted with a paper NOI). If the project continues for more than one year the fee must be submitted again in a renewal process on-line. CGP coverage will not be issued until the fee is paid.

Length of Coverage: CGP coverage starts the day that the NOI and fee is received at DWQ and expires a year from issuance. All CGP coverages must be renewed within 60-days after the yearly expiration date, or be terminated with a notice of termination (NOT) before the expiration date. To terminate the permit the site must meet the permit conditions for final stabilization (see permit definitions), or must continue under a different permit holder. In most cases the DWQ or municipality of jurisdiction will perform a final inspection when a CGP coverage submits an NOT. If the site passes the final inspection the permit is terminated.

The Storm Water General Permit for Construction Activities UTRC00000 will expire on May 30, 2019. The Clean Water Act requires that all UPDES permits be renewed every 5 years. If a project extends beyond the expiration date of the Permit it must continue coverage under the renewed permit that will subsequently be developed to continue the same or similar permit coverage for construction activity.

SECTION I - FACILITY OPERATOR INFORMATION Supply the legal name(s) of the person(s), firm(s), public organization(s), or any other entity(ies) that qualifies as the owner of the project (see permit definitions). Do the same for the operator (most commonly the general contractor) that conducts the construction operation at the facility or site to be permitted. The owner and the general contractor of the project may be the same.

Enter the complete address and telephone number of the owner and operator and a contact person and number for each. Enter the appropriate letter to indicate the legal status of the operator of the facility.
F = Federal M = Public (other than Fed or State) S = State P = Private

SECTION II - FACILITY/SITE LOCATION INFORMATION Enter the facility name or legal name and project number (if any) of the site and complete street address, including city, state and ZIP code. The latitude and longitude of the facility must be included to the approximate centroid of the site, and the method of how the Lat/Long was obtained (USGS maps, GPS, Internet Map sites [such as Google Earth], or other).

Indicate whether the facility is located in Indian Country. If the facility is located in Indian Country, do not complete this NOI, instead submit an application for coverage under a storm water permit to EPA Region VIII except for facilities on the Navajo Reservation or on the Goshute Reservation which should submit an application to EPA Region IX.

SECTION III - SITE ACTIVITY INFORMATION If the storm water discharges to a municipal separate storm sewer system (MS4), enter the name of the operator of the MS4 (e.g., the name of the City or County of jurisdiction) and the receiving water of the discharge from the MS4 if it is known (if it is not known please estimate or guess and indicate so). (An MS4 is defined as a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) that is owned or operated by a state, city, town, county, district, association or other public body which is designed or used for collecting or conveying storm water).

For Impaired Waters: Go to http://wq.deq.utah.gov and identify the water body that will receive the storm water discharge from the permitted site, on the map provided at the web site (zoom in for easier resolution). On the left hand side of the page you will see "**2010 Assessment**" or "**2013 Assessment**" depending on the year you refer to the web site (the assessment is done every 3 years). The **20XX Assessment** the will indicate if the water is impaired. If there is nothing after **20XX Assessment** or the narrative after does not include the word "impaired", your receiving water is not impaired.

For High Quality Waters: On the web page referred to in the paragraph above on the left hand side of the page you will see "**Anti-Degradation Category**". Under **Anti-Degradation Category** you will see the category of the water body. Only categories 1 and 2 are high quality water bodies. Some waters may be both categories 1 and 3. If your water body is both category 1 and 3 it means the headwaters of your water body is within Forest Service boundaries, and because it is within Forest Service boundaries it is category 1. If your project is within Forest Service boundaries then your water body is category 1 and it is "high quality". If your project is not within Forest Service boundaries then your water body is category 3 and is not "high quality". Again, category 1 waters are high quality waters, category 3 waters are not high quality waters.

SECTION IV - TYPE OF CONSTRUCTION Check each type of construction that applies to this application.

SECTION V - BEST MANAGEMENT PRACTICES Check each type of best management practice that will be used to control storm water runoff at the job site.

SECTION VI – GOOD HOUSEKEEPING PRACTICES Check each type of good housekeeping practice that you will use on the site any time during construction activities.

SECTION VII – ADDITIONAL Provide an estimate of the total number of acres of the site on which soil will be disturbed (to the nearest hundredth of an acre). An email address is required of the best contact associated with the project for the communication needs.

SECTION VIII – CERTIFICATION State statutes provide for severe penalties for submitting false information on this application form. State regulations require this application to be signed as follows:

For a corporation: by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietor; or

For a municipality, state, Federal, or other public facility: by either a principal executive officer or ranking elected official.

POLLUTION PREVENTION PLAN A storm water pollution prevention plan (SWP3) is required to be in hand before the NOI can be submitted. It is important to know SWP3 requirements (contained in the permit) even during the design portion of the project. A copy of the permit can be obtained from the Division of Water Quality's storm water construction web site. Guidance material for developing a SWP3 can be obtained from the Division of Water Quality's storm water construction web site.

V. BEST MANAGEMENT PRACTICES

Identify proposed Best Management Practices (BMPs) to reduce pollutants in storm water discharges (Check all that apply):

1. ☒ Silt Fence/Straw Wattle/Perimeter Controls 2. ☐ Sediment Pond 3. ☐ Seeding/Preservation of Vegetation

4. ☐ Mulching/Geotextiles 5. ☐ Check Dams 6. ☒ Structural Controls (Berms, Ditches, etc.)

7. ☐ Other (Please list)

VI. GOOD HOUSEKEEPING PRACTICES

Identify proposed Good Housekeeping Practices to reduce pollutants in storm water discharges (Check all that apply even if they apply only during a part of the construction time):

1. ☒ Sanitary/Portable Toilet 2. ☒ Washout Areas 3. ☐ Construction Chemicals/Building Supplies Storage Area

4. ☒ Garbage/Waste Disposal 5. ☐ Non-Storm Water 6. ☒ Track Out Controls 7. ☐ Spill Control Measures

VII. ADDITIONAL

Estimated Area to be Disturbed (in Acres): 1.00 **Total Area of Plot (in Acres):** 1.00

A storm water pollution prevention plan has been prepared for this site and is to the best of my knowledge in Compliance with State and/or Local Sediment and Erosion Plans and Requirements. Y ☒ N ☐
(A pollution prevention plan is required to be on hand before submittal of the NOI.)

Enter the best e-mail address to contact the permittee: tszuech@msn.com

VIII. CERTIFICATION: I certify under penalty of law that I have read and understand the Part 1 eligibility requirements for coverage under the general permit for storm water discharges from construction activities. I further certify that to the best of my knowledge, all discharges and BMPs that have been scheduled and detailed in a storm water pollution prevention plan will satisfy requirements of this permit. I understand that continued coverage under this storm water general permit is contingent upon maintaining eligibility as provided for in Part 1.

I also certify under penalty of law that this document and all attachments were prepared under the direction or supervision of those who have placed their signature(s) below, in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name (Owner): Andrew Todd Zuech **Date:** 6-7-2016

Signature:

Print Name (~~Operator~~): Andrew Todd Zuech **Date:** 6-7-2016

Signature:

Amount of Permit Fee Enclosed: ~~$ 150.00~~

APPENDIX G: Amendment Log

Amendment Log			
Amendment No.	**Description of the Amendment**	**Date of Amendment**	**Amendment Prepared by [Name(s) and Title]**

APPENDIX H: Certifications, Agreements, and Delegation of Authority

APPENDIX I: Grading and Stabilization Activities Log

Project Name: Click here to enter text.

SWPPP Contact: Click here to enter text.

Date Grading Activity Initiated	Description of Grading Activity	Date Grading Activity Ceased (Indicate Temporary or Permanent)	Date When Stabilization Measures are Initiated	Description of Stabilization Measure and Location

APPENDIX J: Construction Plans

APPENDIX K: Additional Information (i.e. permits such as local permits, dewatering, stream alteration, wetland, and out of date SWPPP documents, etc.)

APPENDIX E, ZUECH SWPPP Inspection Report for:
Zuech Private Residence, 4048 W. 2400 S. Taylor UT 84404.
Inspection Period_______________ through _______________.
Inspector:

BMP Description	BMP Reference #	MONTH START DATE:	OK/NOT IK	BMP CONDITION	CORRECTIVE ACTION REQUIRED	DATE COMPLETE
Structural Controls: 1. Stockpiles of material and soils. 2. Perimeter controls. 3. Inlet Protections	2.1.1 2.1.2 2.1.3					
Managing Sediment Transport: 1. Limiting area of soil disturbance. 2. Controlling storm water Vol & Vel. 3. Controlling storm water discharge	2.3.1 2.3.2 2.3.4 2.3.5					
Good House Keeping Measures: 1. Gravel track out pads. 2. Curb Ramps. 3. General housekeeping (waste / debris) 4. Washout pit.	2.4.1 2.4.2 2.4.3 2.4.4 2.4.5					
Pollution Prevention: 1. Prohibit unauthorized discharges.	2.9.1 2.9.2 2.9.3 2.9.4					

BMP Description	BMP Reference #	DATE:	OK/NOT IK	BMP CONDITION	CORRECTIVE ACTION REQUIRED	DATE COMPLETE
Structural Controls: 1. Stockpiles of material and soils. 2. Perimeter controls. 3. Inlet Protections	2.1.1 2.1.2 2.1.3					
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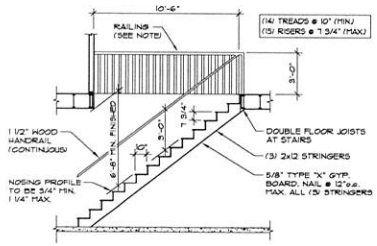
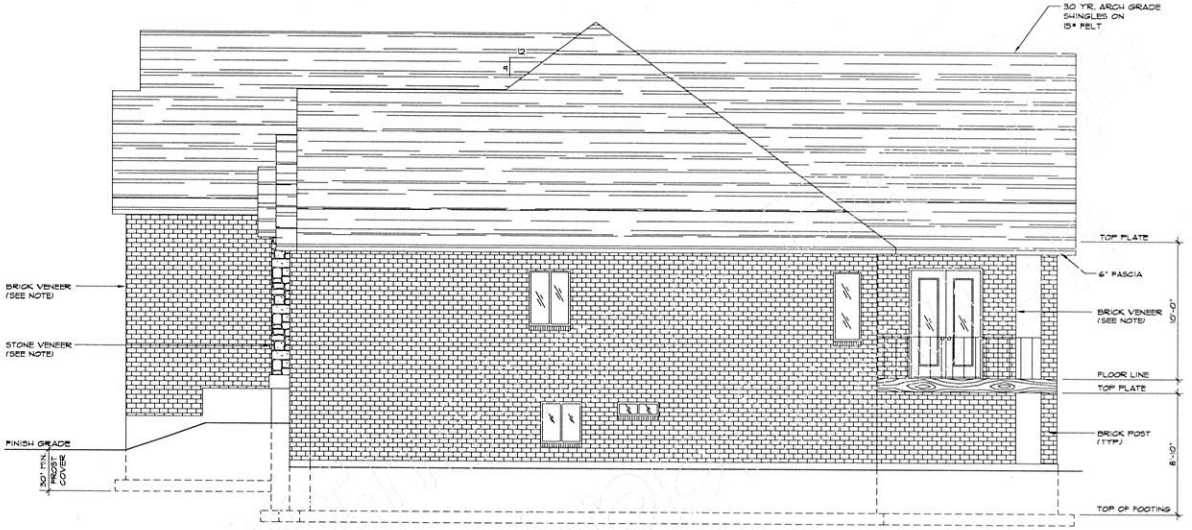
Good House Keeping Measures: 1. Gravel track out pads. 2. Curb Ramps. 3. General housekeeping (waste / debris) 4. Washout pit.	2.4.1 2.4.2 2.4.3 2.4.4 2.4.5					
Pollution Prevention: 1. Prohibit unauthorized discharges.	2.9.1 2.9.2 2.9.3 2.9.4					

BMP Description	BMP Reference #	DATE:	OK/NOT IK	BMP CONDITION	CORRECTIVE ACTION REQUIRED	DATE COMPLETE
Structural Controls: 1. Stockpiles of material and soils. 2. Perimeter controls. 3. Inlet Protections	2.1.1 2.1.2 2.1.3					
Managing Sediment Transport: 1. Limiting area of soil disturbance. 2. Controlling storm water Vol & Vel. 3. Controlling storm water discharge	2.3.1 2.3.2 2.3.4 2.3.5					
Good House Keeping Measures: 1. Gravel track out pads. 2. Curb Ramps. 3. General housekeeping (waste / debris) 4. Washout pit.	2.4.1 2.4.2 2.4.3 2.4.4 2.4.5					
Pollution Prevention: 1. Prohibit unauthorized discharges.	2.9.1 2.9.2 2.9.3 2.9.4					

BMP Description	BMP Reference #	MONTH END DATE:	OK/NOT IK	BMP CONDITION	CORRECTIVE ACTION REQUIRED	DATE COMPLETE
Structural Controls: 1. Stockpiles of material and soils. 2. Perimeter controls. 3. Inlet Protections	2.1.1 2.1.2 2.1.3					
Managing Sediment Transport: 1. Limiting area of soil disturbance. 2. Controlling storm water Vol & Vel. 3. Controlling storm water discharge	2.3.1 2.3.2 2.3.4 2.3.5					
Good House Keeping Measures: 1. Gravel track out pads. 2. Curb Ramps. 3. General housekeeping (waste / debris) 4. Washout pit.	2.4.1 2.4.2 2.4.3 2.4.4 2.4.5					
Pollution Prevention: 1. Prohibit unauthorized discharges.	2.9.1 2.9.2 2.9.3 2.9.4					



STAIR SECTION
SCALE: 1/4"=1'-0" 4" FND



RIGHT SIDE ELEVATION
SCALE: 1/4"=1'-0"

MASONRY NOTE:

1. MASONRY VENEER SHALL HAVE CORROSION RESISTANT ANCHOR TIES OF NOT LESS THAN 22 GA. x 7/8" SPACED NOT MORE THAN 24"o.c. HORIZONTAL AND SUPPORT A MAXIMUM OF 2 SQUARE FEET OF WALL AREA. AROUND WALL OPENINGS GREATER THAN 16" ADDITIONAL TIES ARE REQUIRED TO BE SPACED A MAXIMUM OF 36"o.c. AND BE WITHIN 12" OF THE OPENING. PROVIDE 26 GUAGE FLASHING FROM FOUNDATION UP FIRST 3 COURSES. CULTURED STONE TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
2. FOR BRICK SUPPORT OVER OPENINGS, SEE VENEER LINTEL TABLE ON SHEET S1
3. WEEPHOLES SHALL BE PROVIDED IN THE OUTSIDE WYTHE OF MASONRY WALLS @ 24"o.c. AND BE NO LESS THAN 3/16@ LOCATED IMMEDIATELY ABOVE FLASHING. FLASHING TO BE 26 GUAGE FROM FOUNDATION UP FIRST THREE COURSES.

PROVIDE CAULKING AND MINIMUM 4" COUNTER FLASHING AT ALL EXTERIOR DOORS/WINDOWS PER MANUFACTURERS INSTALLATION REQUIREMENTS.

FRONT ELEVATION
SCALE: 1/4"=1'-0"

THIS PLAN IS SPECIFIC TO THE LOT INDICATED IN THE TITLEBLOCK. ANY OTHER USE IS PROHIBITED.

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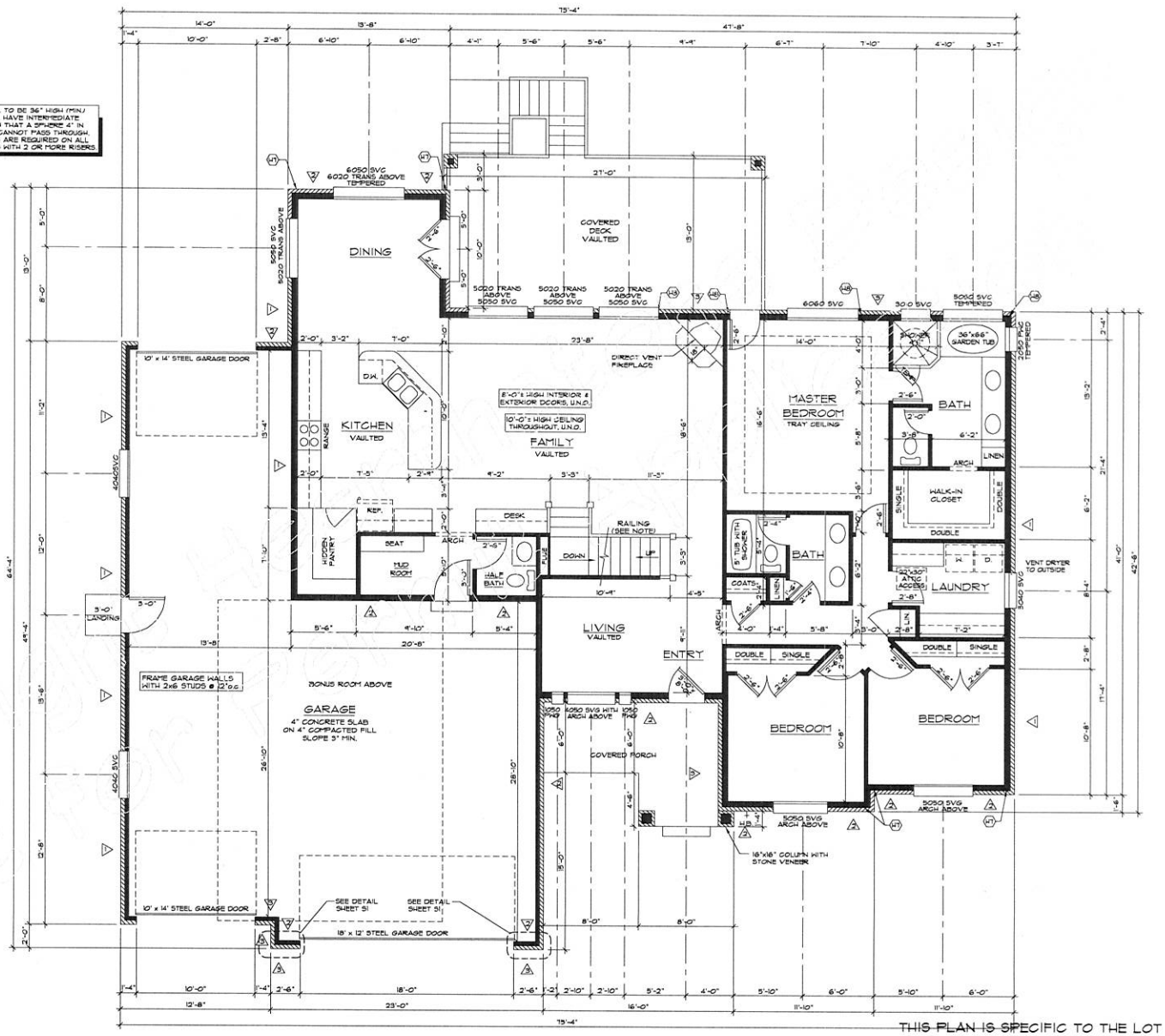
TODD AND SHERI ZUECH
4048 WEST 2400 SOUTH
TAYLORSVILLE, UTAH COUNTY
DATE: 19 MAY 2016

PLAN R-19726-056

SHEET 3



MAIN FLOOR PLAN
SCALE: 1/4"=1'-0" 2207 S.F.

GUARDRAIL TO BE 36" HIGH (MIN.) AND SHALL HAVE INTERMEDIATE RAILS SUCH THAT A SPHERE 4" IN DIAMETER CANNOT PASS THROUGH. HANDRAILS ARE REQUIRED ON ALL STAIRWAYS WITH 2 OR MORE RISERS.

MAIN FLOOR GENERAL NOTES:

1. ALL DIMENSIONS ARE TO FACE OF FRAMING. STUD WALLS ARE SHOWN AS 4 1/2" UNLESS NOTED OTHERWISE.
2. DOOR FROM GARAGE TO HOUSE TO BE 20 MIN. LABELED, SELF-CLOSING, RATED DOOR WHICH MAY NOT OPEN INTO A SLEEPING ROOM (R302.5)
3. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" (12.7mm) GYPSUM BOARD APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN 5/8" (15.9mm) TYPE 'X' GYPSUM BOARD FASTENED @ 6"o.c. ON CEILING (FIELD AND PERIMETER) WITH 1 7/8" 6d NAILS OR EQUIVALENT DRYWALL SCREWS AND T'o.c. ALL OTHER AREAS. (R302.6 AND TABLE R702.3.5)
4. PROVIDE APPROVED ATTIC ACCESS TO ALL ATTIC AREAS THAT EXCEED 30 SQUARE FEET AND HAVE A VERTICAL HEIGHT OF 30" OR GREATER.
5. SILL PLATES AND ANY OTHER LUMBER IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED OR REDWOOD.
6. THE UNDERSIDE OF ANY BAY OR CANTILEVER FLOOR SHALL BE SEALED AIRTIGHT WITH OSB, PLYWOOD OR SIMILAR MATERIAL.
7. ALL WINDOWS OVER TUBS SHALL BE TEMPERED UNLESS SILL HEIGHT IS A MINIMUM OF 5' ABOVE FLOOR OF TUB.

MISCELLANEOUS NOTES:

1. A MINIMUM 6 MIL POLYETHYLENE VAPOR RETARDER IS REQ'D OVER THE INSIDE OF THE INSULATION AND UNVENTED CEILINGS. CONCRETE SLABS UNDER LIVING SPACE REQUIRE A 6 MIL POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS NOT LAPPED LESS THAN 6" PLACED BETWEEN THE CONCRETE FLOOR SLAB AND THE BASE COURSE OR THE PREPARED SUB-GRADE IF NO BASE COURSE EXISTS. (R506.2.3)
2. HAND GRIP PORTION OF HANDRAIL TO HAVE CIRCULAR CROSS SECTION NOT LESS THAN 1 1/4" NOR MORE THAN 2" IN CROSS SECTION, AND IF GREATER THAN 6 1/8" PERIMETER, PROVIDE GRASPABLE FINGER RECESSES ALONG ITS LENGTH. HANDRAILS REQ'D TO TERMINATE IN A SAFETY TERMINAL OR RETURN TO WALL.
3. FLOOR OF GARAGE TO BE SLOPED TOWARD VEHICLE ENTRY DOOR.
4. ALL CONCRETE EXPOSED TO WEATHER TO HAVE MIN. COMPRESSIVE STRENGTH OF 3000 PSI.
5. SHOW COMPACTION AT ALL BACKFILLED AREAS.
6. FASTENERS FOR PRESSURE PRESERVATIVE AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER OR ONE-HALF-INCH (12.7mm) DIAMETER OR GREATER STEEL BOLTS. (2018 IRC R317.3)
7. AUTOMATIC GARAGE DOOR OPENERS, IF PROVIDED SHALL BE TESTED IN ACCORDANCE WITH UL325. (R309.4)
8. IF INSTALLED LAUNDRY CHUTE MUST BE EITHER OF APPROVED FIRE-RESISTIVE CONSTRUCTION OR HAVE A LINING OF NOT LESS THAN 26 GAUGE GALVANIZED SHEET METAL WITH ALL JOINTS LOCK-LAPPED. ALL OPENINGS INTO THE ENCLOSURE SHALL HAVE SELF-CLOSING 1 3/8" SOLID WOOD DOORS.
9. OPENABLE WINDOWS TO HAVE 24" MIN. SILL HEIGHT (A.F.F.) WHEN DISTANCE FROM SILL TO FINISHED GRADE IS GREATER THAN 72", OR THE AREA BELOW 24" SHALL BE FIXED OR HAVE AN OPENING OR A GUARD WHICH DOES NOT ALLOW THE PASSAGE OF A 4" DIAMETER SPHERE. (R312.1.3)

THIS PLAN IS SPECIFIC TO THE LOT INDICATED IN THE TITLEBLOCK. ANY OTHER USE IS PROHIBITED.

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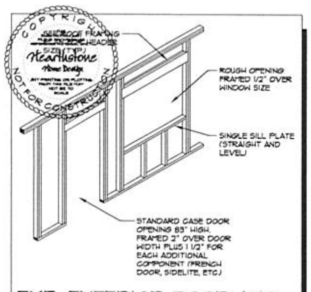
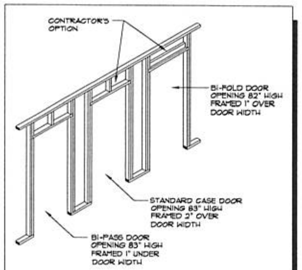
4048 WEST 2400 SOUTH
TAYLOR, WEBER COUNTY
DATE: 19 MAY 2016

PLAN R-19726-056

SHEET 2



TYP. EXTERIOR DOOR AND WINDOW FRAMING DETAIL
NO SCALE



TYP. INTERIOR DOOR FRAMING DETAIL
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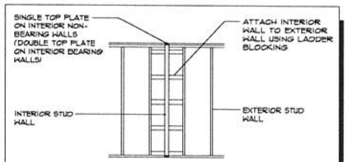
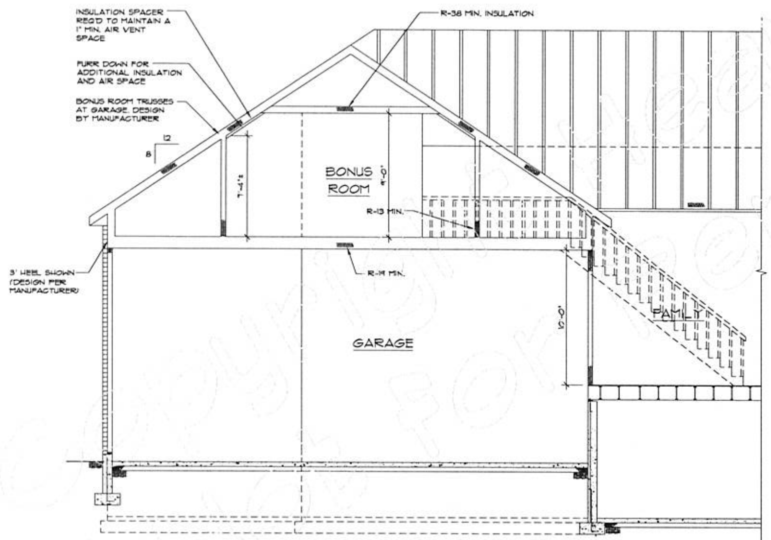
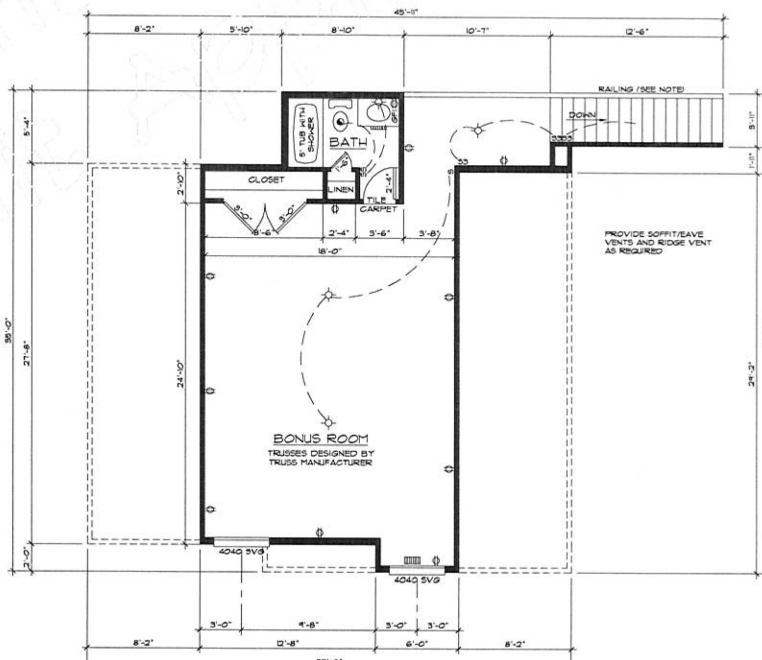


TYP. STUD WALL DETAIL
NO SCALE

BONUS ROOM PLANS, ELEVATIONS AND SECTIONS ARE FOR DESIGN PURPOSES ONLY. SIZE OF BONUS ROOM (WIDTH AND HEIGHT) MAY VARY PER TRUSS MANUFACTURER'S DESIGN, AND ALL DIMENSIONS ARE APPROXIMATE. SPECIFIC BONUS ROOM REQUIREMENTS MUST BE COORDINATED BETWEEN THE OWNER/BUILDER AND TRUSS MANUFACTURER PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS.



CROSS SECTION
NO SCALE



BONUS ROOM FLOOR PLAN
NO SCALE

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TAYLOR, WEBER COUNTY
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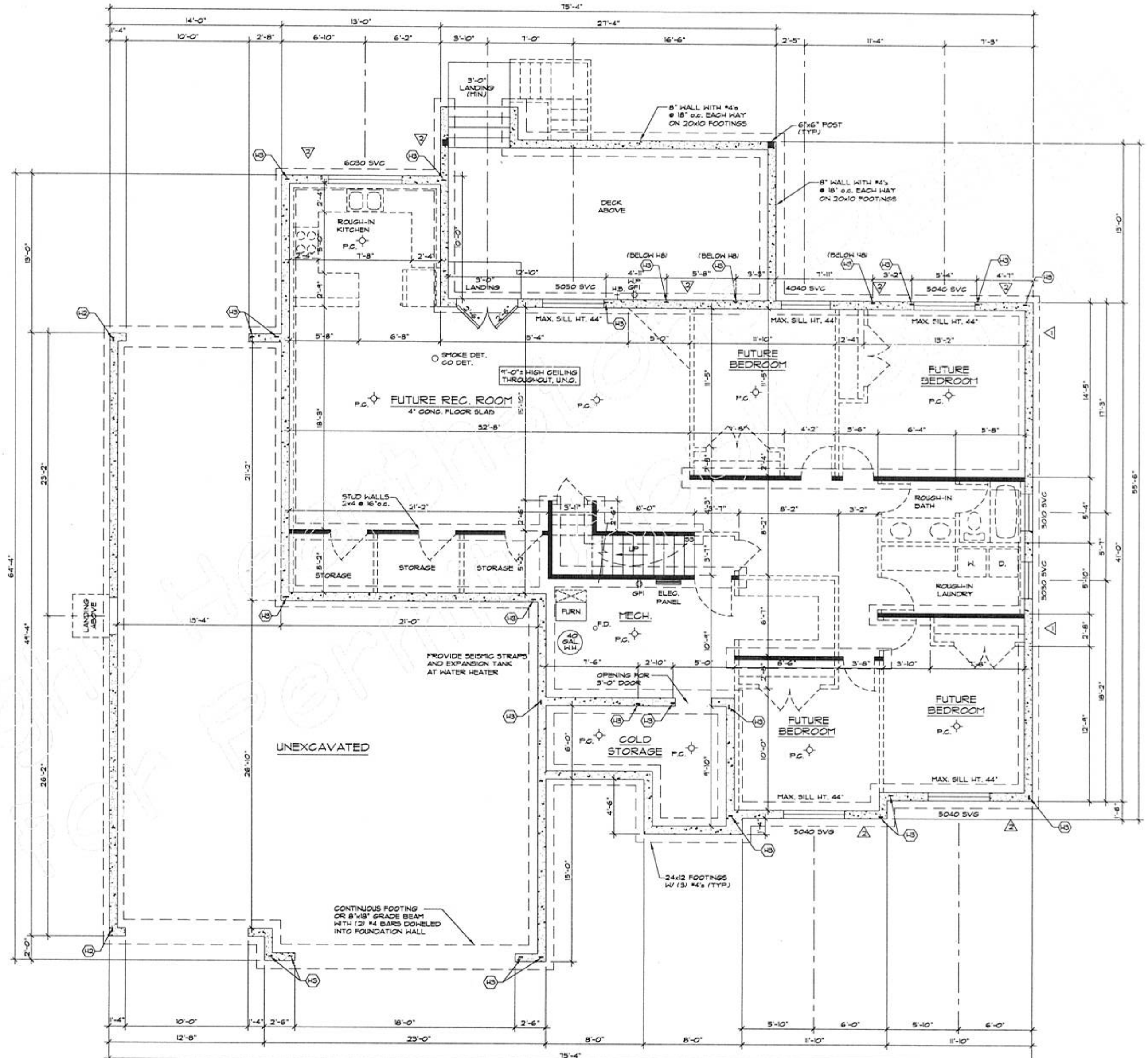
SHEET 2a



FOUNDATION NOTES:

1. PROVIDE (2) #4 AT EACH SIDE AS WELL AS TOP AND BOTTOM OF EACH WINDOW AND DOOR OPENING IN FOUNDATION WALL. EXTEND 24" MIN. BEYOND CORNERS OF OPENING.
2. COORDINATE LOCATION OF ANCHOR BOLTS WITH BRICK VENEER AND WALL PANEL OPENINGS AS REQ'D.
3. HOLDOWN STRAPS TO BE CENTERED ON DIMENSION SHOWN.
4. TOP OF FOUNDATION TO BE 6" MIN. ABOVE FINISH GRADE.
5. REINFORCE PORCH SLAB PER DETAIL ON SHEET S1.
6. AT GARAGE DOOR OPENING PROVIDE CONTINUOUS FOOTING OR 8"x18" GRADE BEAM WITH (2) #4 BARS DOWELED INTO FOUND. WALL.
7. EXTERIOR DRAINS AT LANDINGS NEAR BASEMENT DOORS TO EXTEND 10' FROM FOUNDATION.
8. PROVIDE A CONCRETE ENCASED ELECTRODE, AVAILABLE FOR USE AS A GROUNDING ELECTRODE FOR THE HOUSE, WHICH MEETS THE REQUIREMENTS OF THE 2015 IRC (UFER).

FOOTING NOTES:

1. ALL EXTERIOR FOOTINGS SHALL BE CONTINUOUS AND POURED MONOLITHIC.
2. MINIMUM FOOTING THICKNESS SHALL BE NOT LESS THAN 10", EXCEPT FOR FIREPLACE FOOTINGS, WHICH SHALL BE NOT LESS THAN 12".
3. ALL FOOTINGS TO BE ON UNDISTURBED, NATIVE SOIL.
4. FOOTINGS TO BE A MINIMUM OF 12" BELOW NATURAL GRADE FOR GRUBBING PURPOSES.

HEARTHSTONE DESIGN, INC. ASSUMES NO LIABILITY FOR ANY BUILDING CONSTRUCTED FROM THESE PLANS. IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO PERFORM BUILDING REVIEWS BEFORE BEGINNING CONSTRUCTION. THESE INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

a. VERIFY ALL DIMENSIONS
b. REVIEW ALL STAIR REQUIREMENTS
c. VERIFY COMPLIANCE WITH LOCAL BUILDING CODES
d. VERIFY ACTUAL SITE CONDITIONS

ANY DISCREPANCIES ON THE PLANS MUST BE RESOLVED BY THE BUILDER PRIOR TO CONSTRUCTION.

HEARTHSTONE DESIGN, INC. ASSUMES NO LIABILITY FOR ANY MODIFICATIONS MADE TO THIS PLAN BY ANY OTHER PARTY, INCLUDING BUT NOT LIMITED TO REDLINES, ADDITION OR DELETION OF NOTES AND/OR DETAILS, ETC. ANY ELECTRONIC MANIPULATION OF THESE PLANS IS PROHIBITED.

IF THE CONTRACTOR, IN THE COURSE OF HIS WORK FINDS ANY DISCREPANCIES BETWEEN THE PLANS AND THE PHYSICAL CONDITIONS OF THE SITE OR STRUCTURE, OR ANY ERRORS IN THE PLANS OR SPECIFICATIONS, IT SHALL BE HIS RESPONSIBILITY TO IMMEDIATELY INFORM HEARTHSTONE DESIGN, INC., WHO WILL PROMPTLY VERIFY AND IF NECESSARY CORRECT THE WORKING DRAWINGS.

THESE PLANS AND SPECIFICATIONS WERE DESIGNED FOR COMPLIANCE WITH STANDARD INTERPRETATION OF THE IBC/IRC 2015 CODE AND OTHER CODES HAVING JURISDICTION.

THE PURCHASER OF THESE PLANS IS GRANTED A SINGLE USE LICENSE FOR CONSTRUCTION ONLY. UNAUTHORIZED USE OR FURTHER DISTRIBUTION ARE UNLAWFUL.

CONSTRUCTION USING THESE PLANS SHOULD NOT BE UNDERTAKEN WITHOUT THE ASSISTANCE OF A QUALIFIED BUILDING PROFESSIONAL.

FOOTING AND FOUNDATION PLAN

SCALE: 1/4"=1'-0" 2338 S.F.

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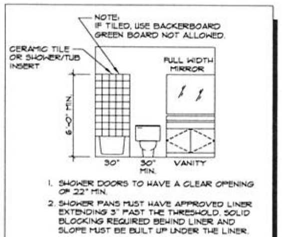
TODD AND SHERI ZUECH
4048 WEST 2400 SOUTH
TAYLOR, WEBER COUNTY
DATE: 19 MAY 2016

PLAN R-19726-056

SHEET 1

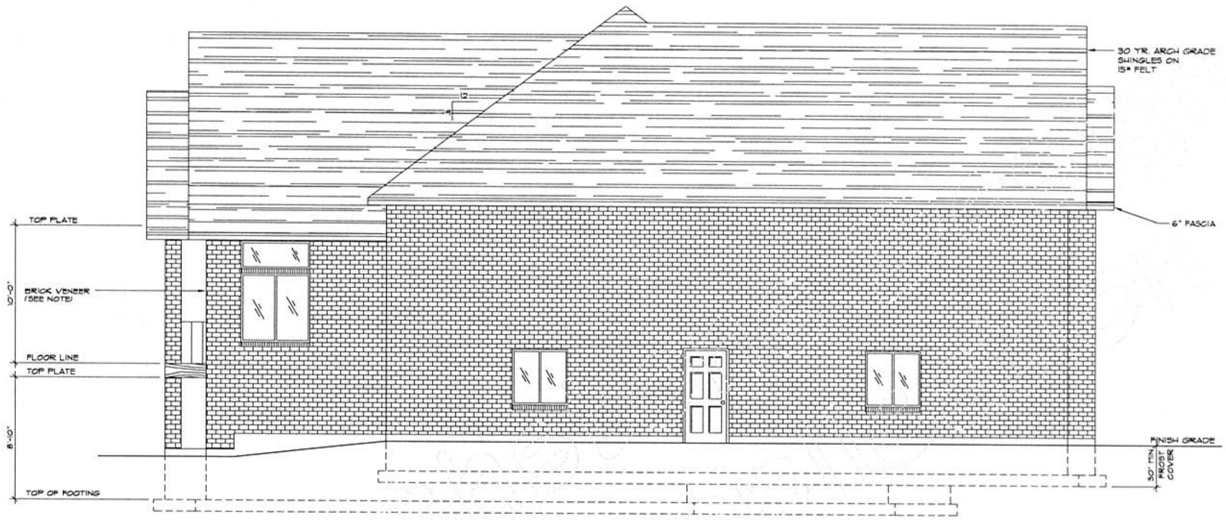


1. SHOWER DOORS TO HAVE A CLEAR OPENING OF 22" MIN.
2. SHOWER PANS MUST HAVE APPROVED LINER EXTENDING 3" PAST THE THRESHOLD. SOLID BLOCKING REQUIRED BEHIND LINER AND SLOPE MUST BE BUILT UP UNDER THE LINER.

TYP. BATH ELEVATION

SCALE: 1/4" = 1'-0"

FLASHING SHALL BE INSTALLED IN SUCH A MANNER AS TO PREVENT MOISTURE FROM ENTERING THE WALL OR TO REDIRECT IT TO THE EXTERIOR. FLASHING SHALL BE INSTALLED AT THE PERIMETERS OF EXTERIOR DOOR AND WINDOW ASSEMBLIES, PENETRATIONS AND TERMINATIONS OF EXTERIOR WALL ASSEMBLIES, EXTERIOR WALL INTERSECTIONS WITH ROOFS, CHIMNEYS, PORCHES, DECKS, BALCONIES AND SIMILAR PROJECTIONS AND AT BUILT-IN GUTTERS AND SIMILAR LOCATIONS WHERE MOISTURE COULD ENTER WALL. FLASHING WITH PROJECTED FLANGES SHALL BE INSTALLED ON BOTH SIDES AND THE ENDS OF COPINGS, UNDER SILLS AND CONTINUOUSLY ABOVE PROJECTED TRIM. A FLASHING SHALL BE INSTALLED AT THE INTERSECTION OF THE FOUNDATION TO STUCCO, MASONRY, SIDING OR BRICK VENEER. THE FLASHING SHALL BE AN APPROVED CORROSION-RESISTANT FLASHING WITH A 1/2" DRIP LEG EXTENDING PAST THE EXTERIOR SIDE OF THE FOUNDATION.



LEFT SIDE ELEVATION

SCALE: 1/4"=1'-0"

REAR ELEVATION

SCALE: 1/4"=1'-0"

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SHEET 4

FLOOR FRAMING:

1. PROVIDE SOLID BLOCKING BETWEEN JOISTS OVER ALL BEARING WALLS.
2. PROVIDE RIM BOARD AT EACH SIDE OF STAIR OPENING.
3. 3/4" T&G FLOOR SHEATHING WITH 8d @ 6"o.c. @ DIAPHRAGM BOUNDARIES AND PANEL SUPPORTED EDGES AND @ 12"o.c. IN FIELD.
4. TOP OF WINDOWS TO BE AT 6'-8" A.F.F. BEDROOM WINDOW SILLS SHALL BE WITHIN 44" OF THE FLOOR.
5. BLOCK BASEMENT BEARING WALLS AT MID-HEIGHT, OR AS PER ENGINEER.
6. PROVIDE BACKING FOR HANDRAILS ETC. AS REQUIRED.
7. ENGINEER APPROVED EQUIVALENT MATERIALS MAY BE USED IN LIEU OF THOSE SPECIFIED.

ROOF FRAMING:

1. PRE-FAB WOOD TRUSSES @ 24"o.c. UNLESS NOTED OTHERWISE.
2. TRUSS LAYOUT BY TRUSS MANUFACTURER.
3. ENCLOSED ATTICS AND SPACES BETWEEN RAFTERS SHALL HAVE CLEAR CROSS VENTILATION TO WALL.
4. ANY FIREPLACE CHIMNEY TO EXTEND 2'-0" MINIMUM ABOVE ANY ROOF SURFACE WITHIN 10'-0".

ROOF DIAPHRAGM:

USE 7/16" (24/16) APA RATED OSB SHEETING, NAILED WITH 8d NAILS @ 6" o.c. AT DIAPHRAM BOUNDARIES AND PANEL SUPPORTED EDGES. FIELD NAIL WITH 8d NAILS @ 12" o.c. (WITH H-CLIPS)

FLOOR DIAPHRAGM:

USE 3/4" APA RATED OSB T&G SHEETING, NAILED AND GLUED WITH 10d NAILS @ 6"o.c. AT DIAPHRAGM BOUNDARIES AND PANEL SUPPORTED EDGES. FIELD NAIL WITH 10d NAILS @ 12"o.c.

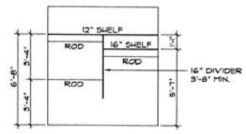
TRUSS MANUFACTURER:

1. ROOF FRAMING PLAN IS FOR DESIGN PURPOSES ONLY. TRUSS DESIGN TO BE PER MANUFACTURER.
2. TRUSS MANUFACTURER TO COORDINATE ROOF FRAMING PLAN WITH, FLOOR PLANS, EXTERIOR ELEVATIONS, AND CROSS SECTION. ANY DISCREPANCIES MUST BE RESOLVED PRIOR TO FABRICATION.

BEARING WALLS TO BE CONSTRUCTED AS FOLLOWS:

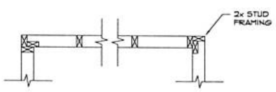
HEIGHT	STUD FRAMING
0' TO 9'	2x4's @ 16"o.c.
9' TO 10'	2x4's @ 12"o.c.
10' TO 14'	2x6's @ 16"o.c.
14' TO 18'	2x6's @ 12"o.c.

WALLS TALLER THAN 16' AND/OR WALLS WITH LARGE OPENINGS TO BE SPECIFIED BY ENGINEER.



TYPICAL CLOSET LAYOUT

NO SCALE



TYP. CORNER FRAMING

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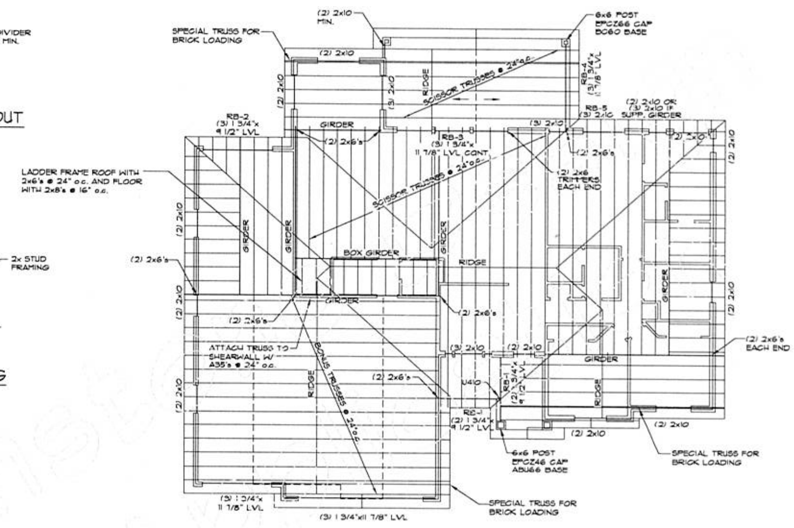


GARAGE WALLS TO BE 2x6's @ 12" o.c.

ROOF FRAMING PLAN

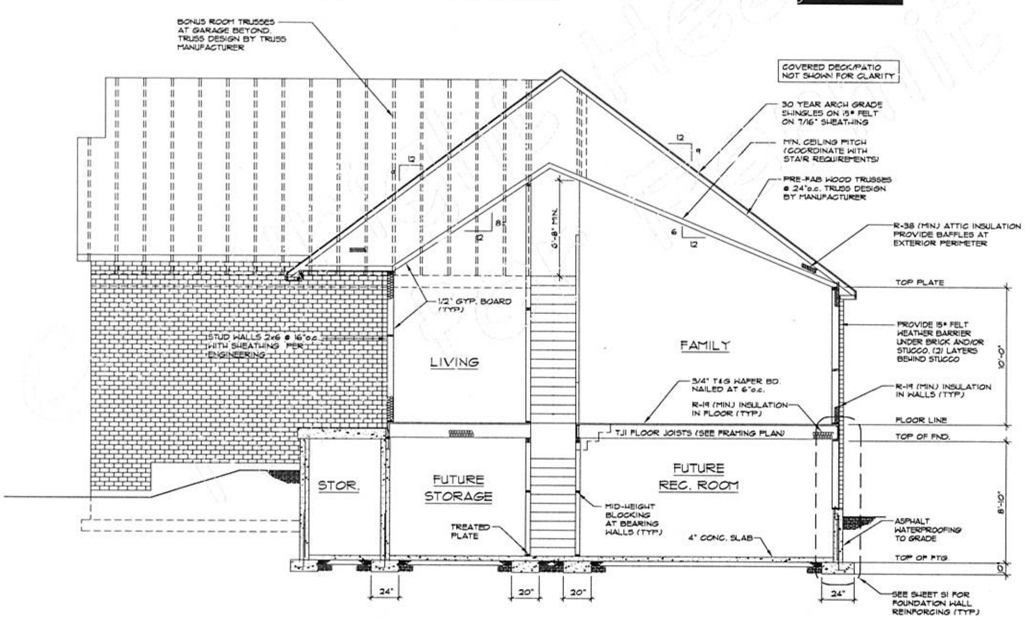
SCALE: 1/8" = 1'-0"

GUARDRAIL TO BE 36" HIGH (MIN.) AND SHALL HAVE INTERMEDIATE RAILS SUCH THAT A SPHERE 4" IN DIAMETER CANNOT PASS THROUGH. HANDRAILS ARE REQUIRED ON ALL STAIRWAYS WITH 2 OR MORE RISERS.

ATTIC AND RAFTER SPACES TO HAVE OPENINGS TO PROVIDE CROSS VENTILATION. (PROVIDE WEATHER PROTECTION AT OPENINGS.) THE NET FREE VENTILATING SHALL BE NOT LESS THAN 1/150th OF THE AREA OF THE SPACE VENTILATED (OR 1/300th IF AT LEAST 50% OF THE VENTILATION IS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED).

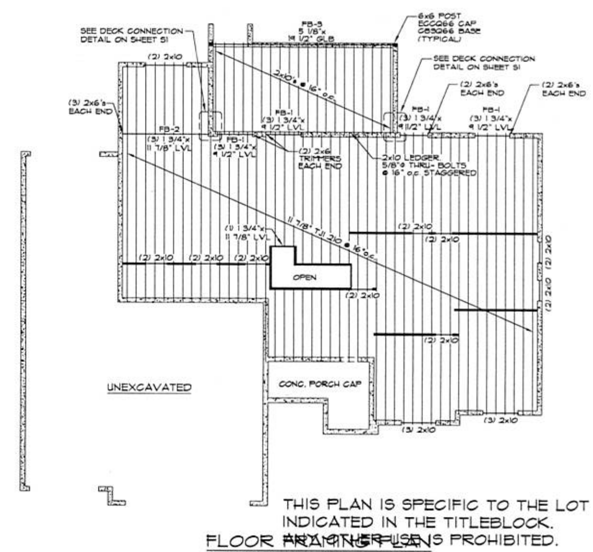
PROVIDE APPROVED ICE AND WATER SHIELD AT ALL ROOF EDGES, EAVES OR VALLEYS. EXTEND FROM THE EAVE EDGE TO A POINT AT LEAST 24" INSIDE THE EXTERIOR WALL LINE OF THE BUILDING.

INSULATION DEPTH MARKER TAPE TO BE SECURED TO TRUSSES IN 300 S.F. INCREMENTS



CROSS SECTION

SCALE: 1/4"=1'-0"



FLOOR FRAMING PLAN

SCALE: 1/8" = 1'-0"

THIS PLAN IS SPECIFIC TO THE LOT INDICATED IN THE TITLEBLOCK. ANY OTHER USE IS PROHIBITED.

TODD AND SHERI ZUECH
4048 WEST 2400 SOUTH
TAYLOR, WEBER COUNTY
DATE: 19 MAY 2016

PLAN R-19726-056

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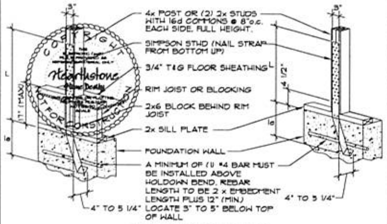
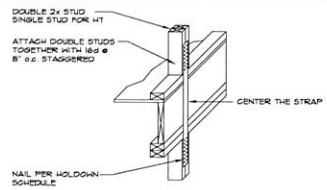
SHEET 5

MODEL SPECS.			
MODEL *	LENGTH (L)	(le)	NAILS
LSTHD8/8RJ	18 5/8" / 32 1/8"	8	(16) 16d SINKER
STHD10 / STHD10RJ	24 5/8" / 38 1/8"	10	(20) 16d SINKER
STHD14 / STHD14RJ	26 1/8" / 39 5/8"	14	(24) 16d SINKER



HOLDOWN DETAILS

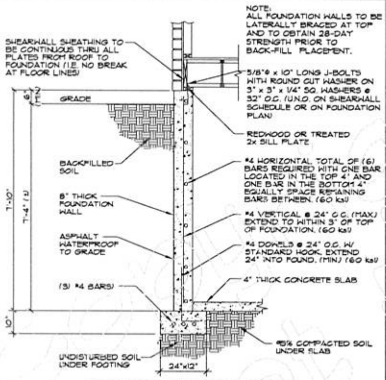
NO SCALE (STHD/LSTHD) (H1)(H2)(H3)



TYPICAL MST INSTALLATION

NO SCALE (H8)(H9) (H7) SIMILAR

(SHEATHING NOT SHOWN FOR CLARITY)

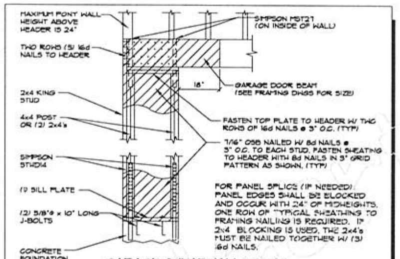


OPTIONAL FOUNDATION SECTION

NO SCALE

HOLDOWN SCHEDULE				
	MARK	SIMPSON MODEL NUMBER	MINIMUM REQUIRED ATTACHMENT	REMARKS
SHEARWALL TO FOUNDATION HOLDOWNS	H1	LSTHD8/8RJ	(16) 16d SINKERS	
	H2	STHD10/10RJ	(20) 16d SINKERS	
	H3	STHD14/14RJ	(24) 16d SINKERS	
	H4	HTT5	(26) 16d COMMON	5/8"Φ THREADED ROD EPOXY INSTALLED IN A 3/4"Φ x 12" DEEP HOLE (SET XP EPOXY)
	H5	HDU11 - SDS2.5	(30) SDS 1/4" x 2 1/2" WOOD SCREW	1"Φ THREADED ROD EPOXY INSTALLED IN IN A 1 1/8"Φ x 18" DEEP HOLE (SET XP EPOXY)
	H6	HDU14 - SDS2.5	(36) SDS 1/4" x 2 1/2" WOOD SCREW	1"Φ THREADED ROD EPOXY INSTALLED IN IN A 1 1/8"Φ x 24" DEEP HOLE (SET XP EPOXY)
UPPER TO LOWER WALL TIE ANCHORS	H7	CS16	(26) 8d SINKERS	STRAP LENGTH =48"
	H8	MST48	(34) 16d SINKERS	CENTER STRAP SO EQUAL LENGTHS ARE ON UPPER AND LOWER WALLS
	H9	MST60	(46) 16d SINKERS	CENTER STRAP SO EQUAL LENGTHS ARE ON UPPER AND LOWER WALLS

1. ALL FOUNDATION "HOLDOWNS" AND BETWEEN LEVEL TIES SHALL BE ATTACHED TO A MINIMUM OF (2) 2 x OR A 4 x MEMBER
2. 'RJ' AFTER MODEL INDICATES STHD's FOR RIM JOIST APPLICATIONS. USE RJ MODELS AT ALL RIM JOIST APPLICATIONS
3. USE STANDARD WASHERS WHEN BOLTING HDU's TO THE STUDS OPPOSITE THE "HOLDOWN". HDU's MUST BE LOCATED ON THE STUDS TO PROVIDE A MINIMUM OF 7 BOLT DIAMETERS BETWEEN THE HOLE AND THE END OF THE STUDS.
4. FOUNDATION CONCRETE STRENGTH SHALL BE 2,500 PSI. INSTALL A MINIMUM OF (1) #4 HORIZONTAL REBAR IN SHEAR CONE ON ALL FOUNDATION "HOLDOWNS".
5. 16d SINKERS MAY BE REPLACED WITH 10d COMMON NAILS WITH NO REDUCTIONS (16d SINKERS = 0.148"Φ x 3 1/4" LONG, 10d COMMON = 0.148"Φ x 3"). 'GUN NAILS' MAY NOT BE USED UNLESS SPECIFICALLY NOTED.
6. REFER TO ATTACHED CONCRETE SECTIONS AND DETAILS SHEET OR TO SIMPSON CATALOG C-C-2015 FOR APPLICABLE DETAILS AND ADDITIONAL INSTALLATION INSTRUCTIONS.
7. ALL HOLDOWNS ON THIS SCHEDULE MAY NOT BE USED ON THIS PLAN.

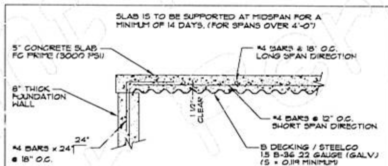


GARAGE SHEARWALL DETAIL

NO SCALE

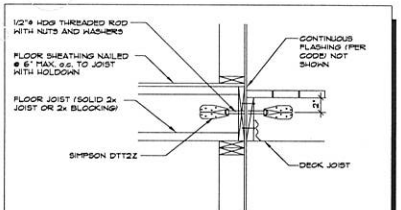
(SEE FLOOR PLAN FOR LOCATIONS)

SLAB IS TO BE SUPPORTED AT MIDSPAN FOR A MINIMUM OF 14 DAYS. (FOR SPANS OVER 4'-0")



PORCH SUSPENDED SLAB DETAIL

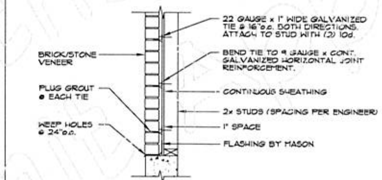
NO SCALE



DECK CONNECTION DTT2Z DETAIL

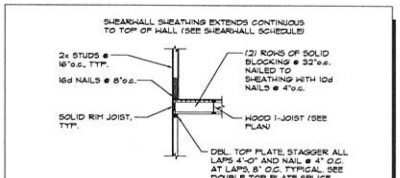
NO SCALE

BRICK VENEER LINTELS	
OPENING SIZE	ANGLE SIZE
UP TO 5'-0"	3 1/2" x 3" x 1/4"
5'-0" TO 7'-0"	3 1/2" x 3 1/2" x 5/16"
7'-0" TO 9'-0"	4" x 3 1/2" x 5/16"
9'-0" TO 10'-0"	5" x 3 1/2" x 5/16"
10'-0" TO 16'-0"	5" x 3 1/2" x 3/8"
MIN. BEARING OF 1" PER FOOT OF OPENING WITH MIN. OF 8" BEARING EACH END.	



VENEER ANCHORAGE DETAIL

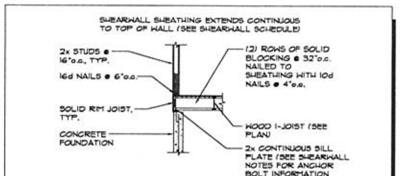
SHEARWALL SHEATHING EXTENDS CONTINUOUS TO TOP OF WALL (SEE SHEARWALL SCHEDULE)



WOOD I-JOIST FRAMING

NO SCALE

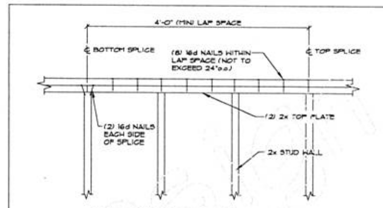
SHEARWALL SHEATHING EXTENDS CONTINUOUS TO TOP OF WALL (SEE SHEARWALL SCHEDULE)



JOISTS PARALLEL TO FOUNDATION

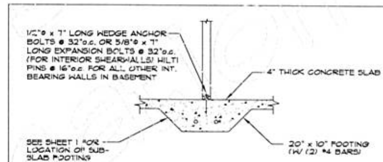
WOOD I-JOIST FRAMING

NO SCALE



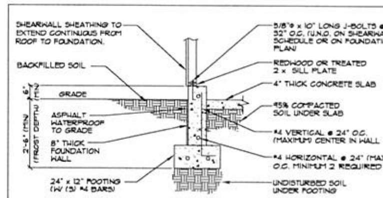
TYP. DOUBLE TOP PLATE SPLICE

NO SCALE



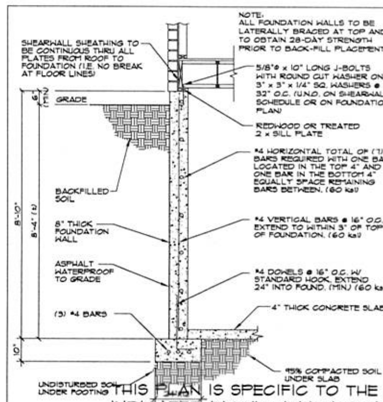
SUB-SLAB FOOTING SECTION

NO SCALE



TYP. FOUNDATION SECTION

NO SCALE



TYP. FOUNDATION SECTION

NO SCALE

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DATE: 19 MAY 2016

PLAN R-19726-056

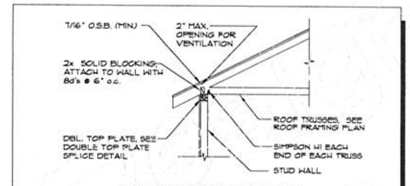
SHEET S1

SHEARWALL SCHEDULE

WALL NO.	SHEATHING ONE SIDE	EDGE NAILING	BOLT SPACING	REMARKS
1	7/16"	8d @ 6"	32" O.C.	
2	7/16"	8d @ 4"	32" O.C.	
3	7/16"	8d @ 4"	*	DOUBLE STUDS OR 3" NOMINAL MEMBER AT ALL PANEL EDGES AND SEAMS
4	7/16"	8d @ 3"	*	DOUBLE STUDS OR 3" NOMINAL MEMBER AT ALL PANEL EDGES AND SEAMS
5	15/32"	10d @ 3"	*	FRAMING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL (MIN)
6	15/32"	10d @ 2"	*	FRAMING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL (MIN) AND NAILS TO BE STAGGERED

1. SHEATHING TO BE APA RATED OSB. OSB EDGES SHALL BE BLOCKED. (OSB SHALL EXTEND TO FOUNDATION SILL PLATE. OSB SEAMS ARE TO BE MADE IN WALL AREA, NOT AT WALL TO FLOOR INTERFACE)
2. ANCHOR BOLTS SHALL BE ASTM A307, 5/8"Ø x 10" LONG WITH A MINIMUM EMBEDMENT OF 7" INTO CONCRETE FOUNDATION. (BOLT SPACING TO BE AT SPACING SHOWN UNLESS OTHERWISE SHOWN ON FOUNDATION DRAWING)
3. MAXIMUM STUD SPACING 16" ON CENTER. 24" o.c. FOR 2x6 WALLS
4. PROVIDE NAILS @ 12" o.c. AT INTERMEDIATE SUPPORTS. NAILS TO BE SAME SIZE AS EDGE NAILING
5. PANEL PORTIONS ABOVE AND/ OR BELOW OPENINGS IN SHEARWALLS SHOULD BE CONSTRUCTED AS SHEARWALL
6. 1 1/2" 16 GAGE (WITH 7/16" CROWN (MIN)) STAPLES INSTALLED WITH CROWN PARALLEL TO LONG DIMENSION OF FRAMING MEMBERS MAY BE USED IN LIEU OF 8d NAILS FOR SHEARWALLS 1,2,3. SPACE STAPLES @ 4" o.c. FOR SHEARWALL 1, AT 3" o.c. FOR SHEARWALL 2, AND AT 2" o.c. FOR SHEARWALL 3. STAPLES ARE NOT PERMISSIBLE FOR SHEARWALLS 4,5,6.
7. DOUBLE STUDS TO BE NAILED TOGETHER WITH 16d NAILS @ 8" o.c. STAGGERED ONE FACE

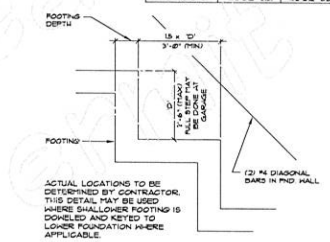
* SEE FOOTING/ FOUNDATION PLAN FOR ANCHOR BOLT REQUIREMENTS. (IF NO SPECIAL SPACING DESIGNATED, USE 32" o.c.)



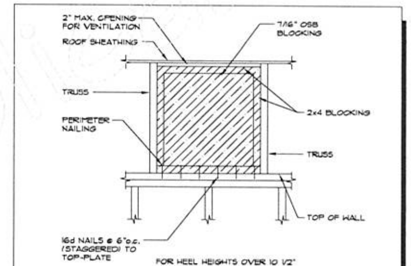
TRUSS BLOCKING DETAIL
NO SCALE

WALL REINFORCING (FOR WALLS NOT SUPPORTED BY FLOOR AT TOP OF WALL)

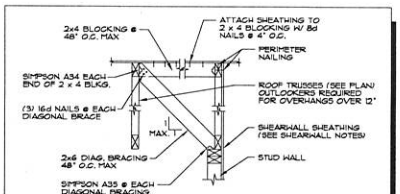
WALL HEIGHT	VERT. STEEL	HORZ. STEEL
2'-0" TO 4'-0"	#4's @24" o.c.	#4's @24" o.c. (MAX)
+4'-0" TO 5'-0"	#4's @18" o.c.	#4's @24" o.c. (MAX)
+5'-0" TO 6-'0"	#4's @12" o.c.	#4's @24" o.c. (MAX)
+6'-0" TO 8'-0"	#4's @12" o.c.	#4's @12" o.c. (MAX)



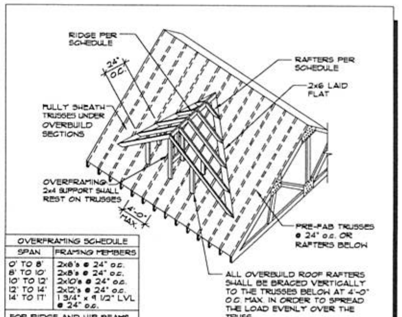
FOOTING STEP-DOWN DETAIL
NO SCALE



HIGH HEEL BLOCKING
NO SCALE



GABLE WALL DETAIL
NO SCALE



OVERFRAMING SCHEDULE	
SPAN	FRAMING MEMBERS
0' TO 8'	2x6's @ 24" o.c.
8' TO 10'	2x8's @ 24" o.c.
10' TO 12'	2x10's @ 24" o.c.
12' TO 14'	2x12's @ 24" o.c.
14' TO 17'	1 3/4" x 9 1/2" LVL @ 24" o.c.

FOR RIDGE AND HIP BEAMS USE (1) MEMBER ONE SIZE LARGER THAN MEMBER USED FOR RAFTERS. (I.E. FOR A 2x6 RAFTER, USE A 2x8 FOR RIDGE AND HIP BEAMS)

TYPICAL OVERBUILD
NO SCALE

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4048 WEST 2400 SOUTH
TAYLOR, WEBER COUNTY
DATE: 19 MAY 2016

PLAN R-19726-056

SHEET S2

ELECTRICAL NOTES:

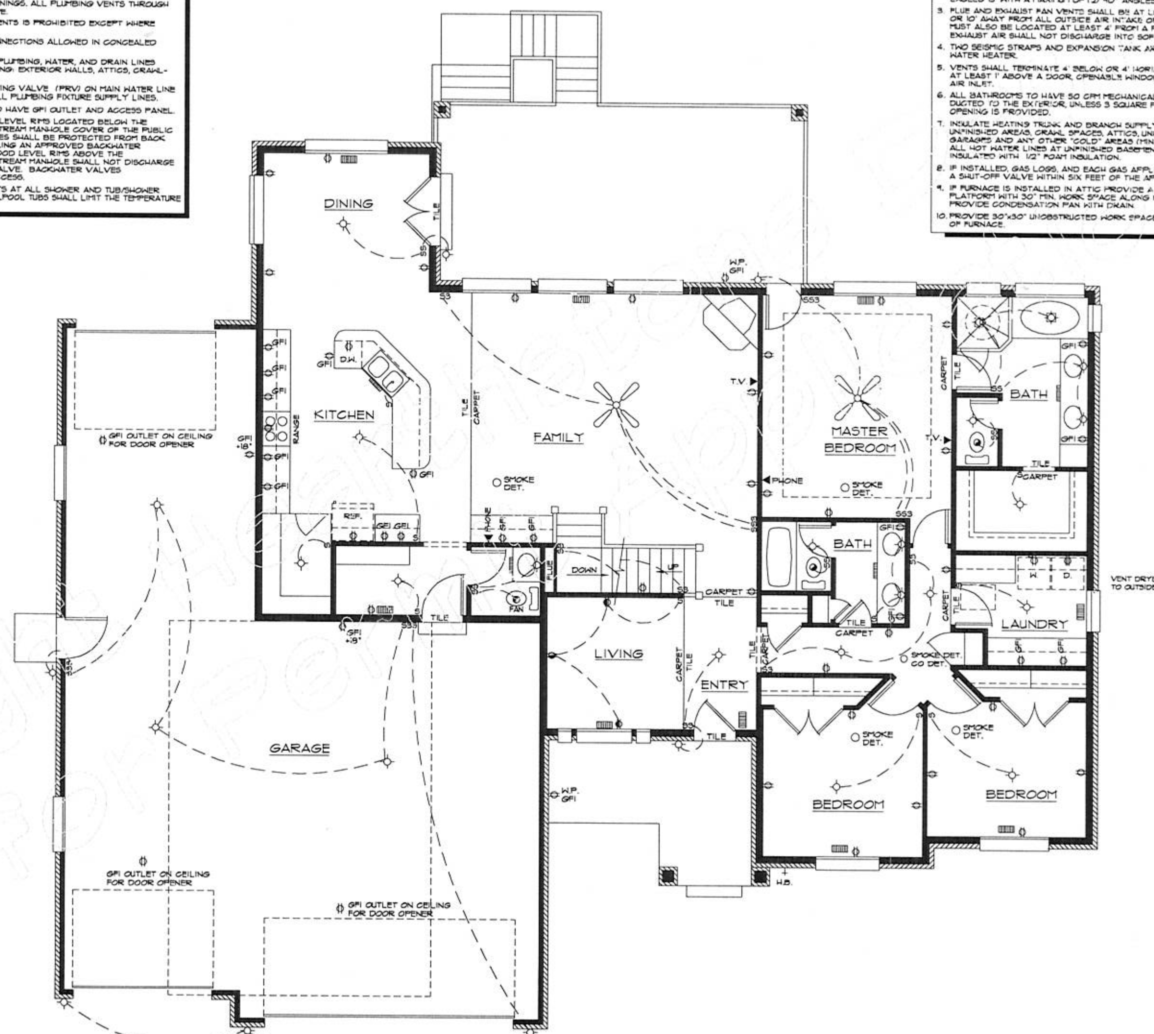
1. LIGHTS, SMOKE DETECTORS, AND EXHAUST FANS ARE REQUIRED IN AREAS SHOWN. LOCATIONS SHOWN FOR OUTLETS AND SWITCHES ARE GUIDELINES ONLY. ELECTRICAL CONTRACTOR TO WIRE AND LOCATE THESE ITEMS PER LOCAL CODE.
2. SMOKE/C.O. DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND SHALL BE EQUIPPED WITH A BATTERY BACK-UP. DETECTORS SHALL BE WIRED IN SERIES.
3. UNDERGROUND ELECTRICAL SERVICE SHALL BE INSTALLED IN 3" RIGID RISER WITH 3" RIGID ELBOW ATTACHED TO PVC ELECTRICAL DUCT TO WITHIN 1 FT. OF PEDESTAL, BURIED A MINIMUM 18" DEEP.
4. GARAGE ELECTRICAL OUTLETS MUST BE 18" MIN. ABOVE THE FLOOR. GARAGE OUTLETS IN FIRE WALLS TO BE MINIMUM 2 HOUR LISTING.
5. CEILING FANS REQUIRE SPECIAL APPROVED BOXES AND ADDITIONAL SUPPORT.
6. ALL CIRCUITS SERVING BEDROOMS TO BE ARC FAULT PROTECTED.
7. PROVIDE A CONCRETE ENCASED ELECTRODE AVAILABLE FOR USE AS A GROUNDING ELECTRODE FOR THE HOUSE, WHICH MEETS THE REQUIREMENTS OF THE 2015 IRC (UFER). ALSO, WATER SERVICE PIPE TO BE USED FOR GROUND IF PRESENT.
8. CARBON MONOXIDE DETECTORS ARE REQUIRED ON EACH HABITABLE LEVEL. 120V WITH BATTERY BACK-UP.
9. PROVIDE BUBBLE COVERS ON ALL EXTERIOR OUTLETS.
10. PROVIDE SWITCHED LIGHT AT FURNACE ROOM.
11. 125 AMP MINIMUM AT ELECTRICAL PANEL AS REQ'D.
12. PLASTIC ELECTRICAL BOXES IN GARAGE FIRE WALLS TO BE A MINIMUM 2 HOUR LISTING.
13. PROVIDE 110 GFI OUTLET WITHIN 10 FEET OF A/C UNIT.
14. ALL 125-VOLT, 15 AND 20 AMP RECEPTACLES INSTALLED INSIDE OR OUTSIDE OF A DWELLING SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. IRC E4002.14
15. LIGHTS IN CLOSETS MUST COMPLY WITH THE CLEARANCE DIMENSIONS OF IRC E4003.12.

PLUMBING NOTES:

1. COMBUSTION AIR FOR WATER HEATER TO BE SUPPLIED FROM OUTSIDE.
2. FREEZELESS, BACKFLOW PREVENTION HOSE BIBBS REQUIRED. PROVIDE ACCESSIBLE SHUT-OFF BALL VALVE.
3. LOW-FLUSH TOILETS REQUIRED, MAX. 1.6 GALLONS PER FLUSH.
4. MAX. FLOW RATE FOR SHOWER HEADS IS 2.5 GALLONS PER MINUTE.
5. PLUMBING VENTS SHALL BE AT LEAST 3' ABOVE OR 10' AWAY FROM ALL OUTSIDE AIR INTAKE OPENINGS. ALL PLUMBING VENTS THROUGH ROOF TO BE A MINIMUM 3" PIPE.
6. FLAGPOLING OF PLUMBING VENTS IS PROHIBITED EXCEPT WHERE ROOF IS OCCUPIED.
7. NO SLIP-JOINT PLUMBING CONNECTIONS ALLOWED IN CONCEALED CONSTRUCTION AREAS.
8. INDIVIDUALLY INSULATE ALL PLUMBING, WATER, AND DRAIN LINES IN AREAS SUBJECT TO FREEZING: EXTERIOR WALLS, ATTICS, CRAWL-SPACES, GARAGES, ETC.
9. PROVIDE PRESSURE REGULATING VALVE (PRV) ON MAIN WATER LINE AND SHUT-OFF VALVE FOR ALL PLUMBING FIXTURE SUPPLY LINES.
10. IF INSTALLED, JACUZZI TUB TO HAVE GFI OUTLET AND ACCESS PANEL.
11. FIXTURES THAT HAVE FLOOD LEVEL RIMS LOCATED BELOW THE ELEVATION OF THE NEXT UPSTREAM MANHOLE COVER OF THE PUBLIC SEWER SERVING SUCH FIXTURES SHALL BE PROTECTED FROM BACK FLOW OF SEWAGE BY INSTALLING AN APPROVED BACKWATER VALVE. FIXTURES HAVING FLOOD LEVEL RIMS ABOVE THE ELEVATION OF THE NEXT UPSTREAM MANHOLE SHALL NOT DISCHARGE THROUGH THE BACKWATER VALVE. BACKWATER VALVES SHALL BE PROVIDED WITH ACCESS.
12. PROVIDE ANTI-SCALD FAUCETS AT ALL SHOWER AND TUB/SHOWER COMBO'S. BATHTUBS AND WHIRLPOOL TUBS SHALL LIMIT THE TEMPERATURE TO A MAXIMUM OF 120°.

MECHANICAL NOTES:

1. PROVIDE OUTSIDE COMBUSTION AIR TO FURNACE AND WATER HEATERS, ONE DUCT WITHIN 12" OF THE CEILING & SIZED 1 SQ. IN. PER 3000 TOTAL BTU INPUT OF ALL APPLIANCES. MAINTAIN 1" CLEARANCE AT SIDES AND REAR, AND 6" CLEARANCE AT FRONT OF APPLIANCES.
2. DRYER MUST VENT TO OUTSIDE. MIN. 4"ø DUCT, LENGTH NOT TO EXCEED 15' WITH A MAXIMUM OF (2) 90° ANGLES.
3. FLUE AND EXHAUST FAN VENTS SHALL BE AT LEAST 3' ABOVE OR 10' AWAY FROM ALL OUTSIDE AIR INTAKE OPENINGS. THEY MUST ALSO BE LOCATED AT LEAST 4' FROM A PROPERTY LINE. EXHAUST AIR SHALL NOT DISCHARGE INTO SOFFIT.
4. TWO SEISMIC STRAPS AND EXPANSION TANK ARE REQUIRED ON WATER HEATER.
5. VENTS SHALL TERMINATE 4' BELOW OR 4' HORIZONTALLY, AND AT LEAST 1' ABOVE A DOOR, OPENABLE WINDOW OR A GRAVITY AIR INLET.
6. ALL BATHROOMS TO HAVE 50 CFM MECHANICAL VENTILATION DUCTED TO THE EXTERIOR, UNLESS 3 SQUARE FEET OF GLAZED OPENING IS PROVIDED.
7. INSULATE HEATING TRUNK AND BRANCH SUPPLY DUCTS IN UNFINISHED AREAS, CRAWL SPACES, ATTICS, UNHEATED GARAGES AND ANY OTHER "COLD" AREAS (MIN. R-8 INSULATION). ALL HOT WATER LINES AT UNFINISHED BASEMENT TO BE INSULATED WITH 1/2" FOAM INSULATION.
8. IF INSTALLED, GAS LOGS, AND EACH GAS APPLIANCE REQUIRES A SHUT-OFF VALVE WITHIN SIX FEET OF THE APPLIANCE.
9. IF FURNACE IS INSTALLED IN ATTIC PROVIDE A 12" RAISED PLATFORM WITH 30" MIN. WORK SPACE ALONG FURNACE FRONT. PROVIDE CONDENSATION PAN WITH DRAIN.
10. PROVIDE 30"x30" UNOBSTRUCTED WORK SPACE AREA IN FRONT OF FURNACE.



MAIN FLOOR ELEC./HVAC AND FLOOR COVERING PLAN
SCALE: 1/4"=1'-0"

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SHEET 6

PLAN R-19726-056

TODD AND SHERI ZUECH
4048 WEST 2400 SOUTH
TAYLOR, WEBER COUNTY
DATE: 19 MAY 2016

Hearthstone Design
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Weber County Stormwater Construction Activity Permit

Application submittals will be accepted by appointment only. (801) 399-8374. 2380 Washington Blvd. Suite 240, Ogden, UT 84401

Date Submitted	*Fees (Office Use)*	*Receipt Number (Office Use)*	*Priority Site (Office Use)*	*Permit Number (Office Use)*
06/03/2016			◯Yes ◯No	2016-58

Property Owner/Authorized Representative Contact Information

Name of Property Owner(s)/Authorized Representative(s)
Andrew T. and Sheri M. Zuech

Phone
801-388-9366 / 801-668-7507

Fax

Email Address
tszuech@msn.com

Mailing Address of Property Owner(s)/Authorized Representative(s)

3560 S. Midland Dr. Apt H106, West Haven, UT 84401

Project Information

Project Name
Zuech Private Residence

Project Address

4048 W. 2400 S. Taylor, UT 84404

Estimated Project Length (mo)
9 months

Previous Permit No. (if applicable)

Estimated Start Date
06/17/2016

Actual Start Date

Submittal Checklist

☒ The application shall include a Storm Water Pollution Prevention Plan which meets the criteria set forth in Section 33-3-4 of the county ordinances.

The applicant shall file the application on or before the following dates:

Subdivision: The date that the applicant submits the preliminary subdivision development plat application.
Site Plan: The date that the applicant submits a site plan application or amended site plan.
Building Permit: The date that the applicant submits a building permit application if the applicant proposes to construct a building on an existing lot or parcel.
Land Use Permit: The date that the applicant submits a land use permit application.
Other: At least two (2) weeks before the developer intends to perform any type of work not listed above that would require a Storm Water Construction Activity Permit pursuant to this Chapter.

Failure to acquire a required Storm Water Construction Activity Permit is grounds for tabling a related subdivision application, site plan application, conditional use permit application, or building permit application. It is unlawful to commence work (move dirt) on a development site before obtaining a required Storm Water Construction Activity Permit.

Note: A pre-costruction meeting is required before preforming any on-site earth work, unless waived by the county engineer.

Applicant Narrative

Please explain your request.

New Construction

Authorization

By signing below the Owner / Representative authorizes the county to enter the property to perform inspections.

Owner or Authorized Representative Signature	Date
	6-3-2016
Signature of Approval	Date
	6-8-16

APPENDIX L: BMP Specifications and Details (label BMPs to match the sections identified in this document.)

APPENDIX L: SWPPP BMP's Zuech Private Residence

STORM WATER POLLUTION PREVENTION PLAN, BEST MAINTENANCE PRACTICES

2.1. Structural Controls. Minimize sediment transport off the site as follows:

2.1.1. Stockpiled Material that can be affected by water will be stored on an impervious surface, in a designated holding area, as far away as feasibly possible from roads, storm water inlets, or water bodies.

2.1.2. Perimeter Controls. Any one or combination of perimeter controls such as silt fences, straw wattles, filter berms, cut back curbs, vegetative buffers, etc., will be properly placed on the downslope sides of the project to prevent sediment from leaving the site during a storm event.

2.1.2.1 As perimeter controls become loaded to 1/3 of capacity, they will be cleaned.

2.1.3. Inlet Protection. Storm-drain inlets on the project site and on adjacent roads immediately down grade from the site will be protected before land is disturbed, and until final stabilization is complete.

2.2. Is N/A, there is no Critical or Sensitive Areas needing protection other than ones noted in this SWPPP:

2.3. Managing the Site to Minimize Sediment Transport Offsite.

2.3.1. The total area of soil disturbance at any one time will be minimized by disturbing only the area necessary to complete that stage of construction.

2.3.2. Is N/A, the building site is not considered a "steep slope".

2.3.3. Storm water volume and velocity will be controlled by perimeter controls (see 2.1.2).

2.3.4. Storm water discharges leaving the site will be controlled by perimeter controls (see 2.1.2), native vegetation, and landscaping.

2.3.5. Is N/A, there is not a body of water within 30ft of building site.

2.4. Good Housekeeping Measures: All Subcontractor's will maintain the site in a clean condition, perform a thorough clean-up at the end of the day, and upon completion of construction.

2.4.1. Gravel track-out pads will be used to prevent dirt & mud from being tracked on streets as vehicles leave the site.

-Traffic onto the site will be strictly limited, allowing only for the occasional delivery and unload.

-Owners and contractors may only access building sites by dedicated point of access.

2.4.2. "Curb Ramps" (if needed) will be made of crushed rock or other dense material that will not wash away during a heavy storm.

2.4.3. The site will be inspected for waste and debris daily and cleaned accordingly as necessary.

2.4.3.1 Waste and debris will be contained and secured adequately to prevent scattering from wind until it is removed from the site and disposed of properly.

2.4.3.2 A dumpster will be located on the building site to mitigate waste and debris.

2.4.4. Portable Toilet. Portable toilets will be provided on site, and will be tied down, staked, or secured using other measures to prevent turn over, and will be at least 10' from the curb.

2.4.5. Washing of Concrete, Stucco, and Paint Equipment: A well labelled pit, lined with impermeable plastic, will be provided on site, and designated for washout of equipment used for concrete, masonry, stucco, and water-based paint.

2.4.5.1After construction completion; accumulated waste will be dried/solidified transported to a landfill.

2.5. Soil Compaction/Top Soil: All top soil will remain on site and be used for final landscaping.

2.5.1 Soil compaction will be minimized as much as possible.

2.6. Stabilization Requirement: Permanent stabilization will be achieved with landscaping once construction is complete.

2.7. Construction dewatering will not be allowed on site.

2.8. Pollution Prevention Measures:

2.8.1. Vehicle, wheel, and other washing will not be permitted on site.

2.8.1.1 All equipment Operator Maintenance (O&M) will be performed off-site.

2.8.2. Exposure to pollutants will be minimized as much as possible.

2.8.3. Leaks and Spills.

2.8.3.1 We will minimize the discharge of pollutants from spills as much as possible by not allowing any container (or collection of containers) on site that exceed the 25gal permissible limit.

2.8.3.2 We will have chemical spill & leak prevention / response procedures ready in case of an emergency.

2.9. Prohibited Discharges. The following discharges are prohibited on site:

2.9.1. Wastewater from washout or cutting of concrete or asphalt (see 2.4.5).

2.9.2. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials (see 2.4.5),

2.9.3. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance (see 2.8.1)

2.9.4. Soaps or solvents used in vehicle and equipment washing (see 2.8.1)

APPENDIX L: SWPPP BMP's Zuech Private Residence

2.1.2 Perimeter Control:

-Perimeter sediment controls such as native vegetation, sediment barriers, silt fences, construction barriers, sediment basins, dikes or any combination of such measures may be used.
-Drainage system controls (sediment traps/basins, ditches, etc.) and perimeter controls (silt fences, construction exit) shall be installed prior to land disturbance.

2.1.3 Storm Drain Inlet Protections:

-All inlets that could receive storm water from the project will be protected until final stabilization of the site has been achieved.
-Inlet protection will be installed on existing storm drain systems before land-disturbance activities begin, and maintained thereafter.

2.4 Clean Up Of Building Sites:

-Building site will be cleaned on a regular basis.
-Owners and contractors may only access building sites by dedicated point of access.
-Materials will be secured on the site to prevent the blowing of debris and garbage.
-A dumpster will be located on the building site or in the right-of- way in front of the site.
-All Subcontractor's shall maintain the site in a clean condition, perform a thorough clean-up at the end of the day, and upon completion of construction.
-Inspection of the site weekly, and immediately after every storm event.

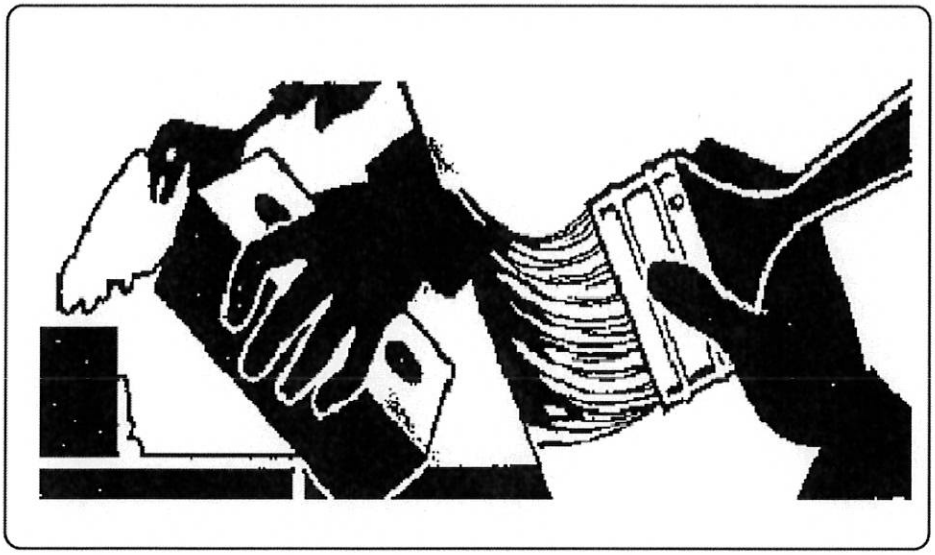
2.4.5 Washout/Collection Area:

-A designated, well labelled concrete washout area will be provided on-site.
-All concrete trucks, stucco, masons etc. must washout in a designated collection area.
-All collected washout waste as a result of construction will be removed from the lot and properly disposed of upon completion of construction.

2.4 Off-Site Sediment Tracking:

-Prevent sediment from being tracked off-site by maintaining the rock construction entrance/exit.
-Limiting vehicle access based on need to enter, weather conditions etc.
-Street sweeping will be performed as often as needed to prevent mud from being transported onto paved roads by vehicles.
-The crossing of adjacent properties, parcels, or lots is prohibited except by written permission of the owner of the adjacent parcel.

BMP: Building Repair, Remodeling, and Construction BRRC



OBJECTIVES

- ☐ New Development
- ☐ Residential
- ☒ Commercial Activities
- ☒ Industrial Activities
- ☒ Municipal Facilities
- ☐ Illegal Discharges

DESCRIPTION:

Prevent or reduce the discharge of pollutants to stormwater from building repair, remodeling and construction by using soil erosion controls, enclosing or covering building material storage areas, using good housekeeping practices, using safer alternative products, and training employees.

APPROACH:

- ► Use soil erosion control techniques if bare ground is temporarily exposed.
- ► Use permanent soil erosion control techniques if the remodeling clears buildings that are not to be replaced.
- ► Enclose painting operations consistent with local air quality regulations and OSHA.
- ► Properly store materials that are normally used in repair and remodeling such as paints and solvents.
- ► Properly store and dispose waste materials generated from the activity.
- ► Maintain good housekeeping practices while work is underway.

LIMITATIONS:

- ► This BMP is for minor construction only.
- ► Hazardous waste that cannot be re-used or recycled must be disposed of by a licensed hazardous waste hauler.
- ► Safer alternative products may not be available, suitable, or effective in every case.
- ► Be certain that actions to help stormwater quality are consistent with OSHA and air quality regulations.

WEBER COUNTY

ENGINEERING DEPARTMENT

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TARGETED POLLUTANTS

- ■ Sediment
- ☐ Nutrients
- ☒ Heavy Metals
- ☒ Toxic Materials
- ☐ Oxygen Demanding Substance
- ☒ Oil & Grease
- ■ Floatable Materials
- ☐ Bacteria & Viruses

- ■ High Impact
- ☒ Medium Impact
- ☐ Low or Unknown Impact

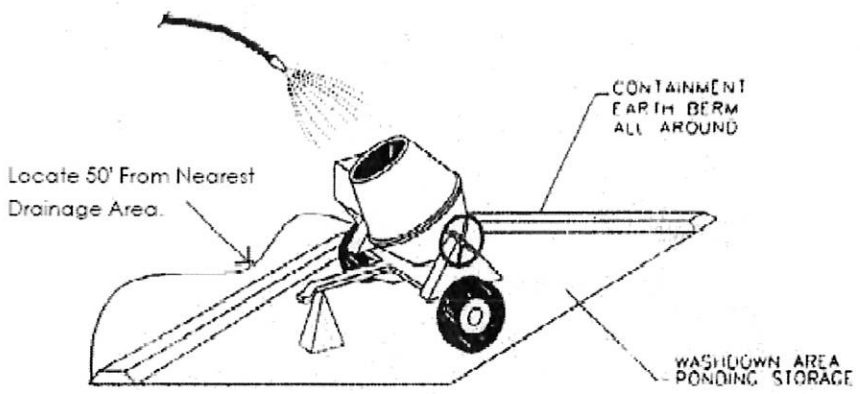
IMPLEMENTATION REQUIREMENTS

- ☒ Capital Costs
- ☒ O&M Costs
- ☐ Regulatory
- ☒ Training
- ☒ Staffing
- ☒ Administrative

- ■ High
- ☒ Medium
- ☐ Low

BMP: Concrete Waste Management

CWM



OBJECTIVES

- ☐ Housekeeping Practices
- ☒ Contain Waste
- ☐ Minimize Disturbed Areas
- ☐ Stabilize Disturbed Areas
- ☐ Protect Slopes/Channels
- ☐ Control Site Perimeter
- ☐ Control Internal Erosion

DESCRIPTION:

Prevent or reduce the discharge of pollutants to storm water from concrete waste by conducting washout off-site, performing on-site washout in a designated area, and training employees and subcontractors.

APPLICATIONS:

- ► This technique is applicable to all types of sites.

INSTALLATION/APPLICATION CRITERIA:

- ► 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 off-site or in designated areas only.
- ► Do not wash out concrete trucks into storm drains, open ditches, streets, or streams.
- ► Do not allow excess concrete to be dumped on-site, except in designated areas.
- ► When washing concrete to remove fine particles and expose the aggregate, avoid creating runoff by draining the water within a bermed or level area. (See Earth Berm Barrier information sheet.)
- ► Train employees and subcontractors in proper concrete waste management.

LIMITATIONS:

- ► Off-site washout of concrete wastes may not always be possible.

MAINTENANCE:

- ► Inspect subcontractors to ensure that concrete wastes are being properly managed.
- ► If using a temporary pit, dispose hardened concrete on a regular basis.

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TARGETED POLLUTANTS

- ☐ Sediment
- ☐ Nutrients
- ☐ Toxic Materials
- ☐ Oil & Grease
- ☐ Floatable Materials
- ☒ Other Construction Waste

- ■ High Impact
- ☒ Medium Impact
- ☐ Low or Unknown Impact

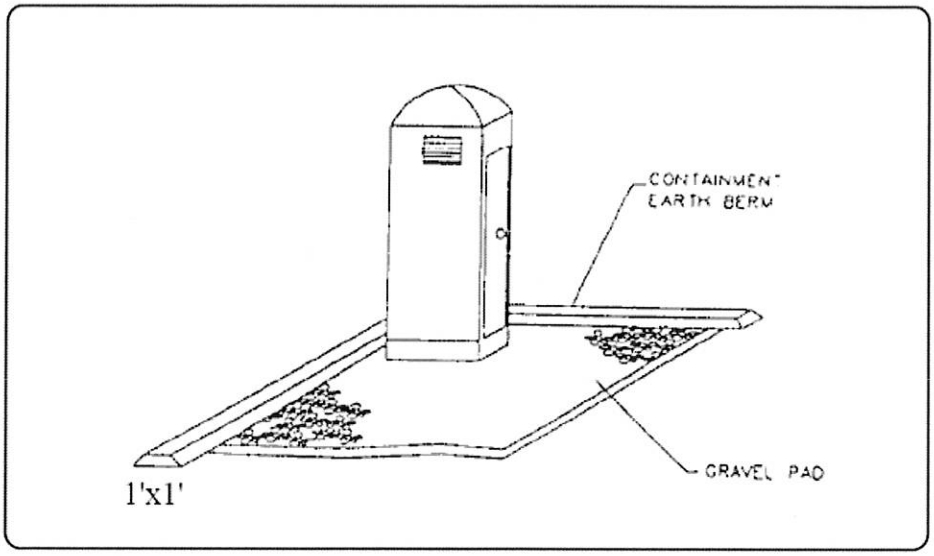
IMPLEMENTATION REQUIREMENTS

- ☐ Capital Costs
- ☐ O&M Costs
- ☒ Maintenance
- ☒ Training

- ■ High
- ☒ Medium
- ☐ Low

BMP: Portable Toilets

PT



OBJECTIVES

- ☒ Housekeeping Practices
- ☒ Contain Waste
- ☐ Minimize Disturbed Areas
- ☐ Stabilize Disturbed Areas
- ☐ Protect Slopes/Channels
- ☐ Control Site Perimeter
- ☐ Control Internal Erosion

DESCRIPTION:

Temporary on-site sanitary facilities for construction personnel.

APPLICATION:

- ► All sites with no permanent sanitary facilities or where permanent facility is too far from activities.

INSTALLATION/APPLICATION CRITERIA:

- ► Locate portable toilets in convenient locations throughout the site.
- ► Prepare level, gravel surface and provide clear access to the toilets for servicing and for on-site personnel.
- ► Construct earth berm perimeter (See Earth Berm Barrier Information Sheet), control for spill/protection leak.

LIMITATIONS:

No limitations.

MAINTENANCE:

- ► Portable toilets should be maintained in good working order by licensed service with daily observation for leak detection.
- ► Regular waste collection should be arranged with licensed service.
- ► All waste should be deposited in sanitary sewer system for treatment with appropriate agency approval.

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TARGETED POLLUTANTS

- ☐ Sediment
- ☐ Nutrients
- ☐ Toxic Materials
- ☐ Oil & Grease
- ☐ Floatable Materials
- ■ Other Construction Waste

- ■ High Impact
- ☒ Medium Impact
- ☐ Low or Unknown Impact

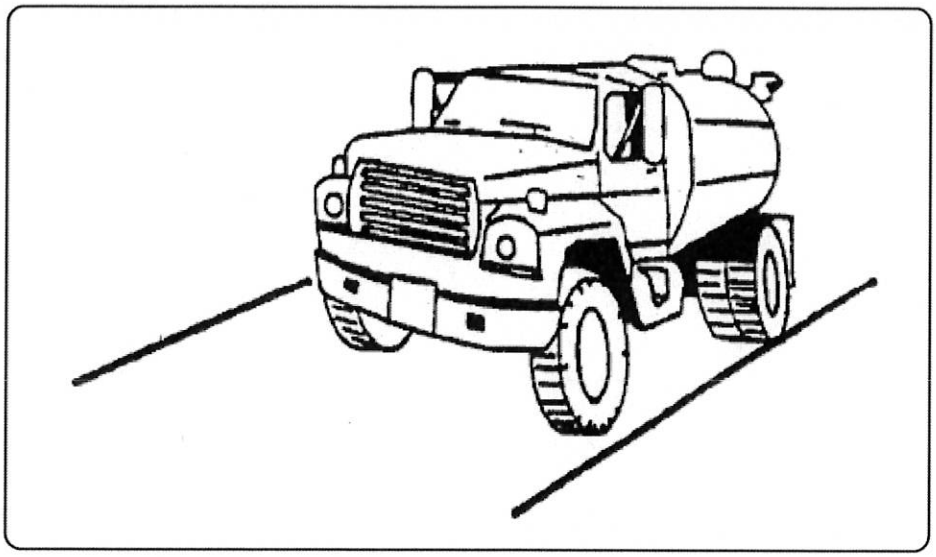
IMPLEMENTATION REQUIREMENTS

- ☒ Capital Costs
- ☒ O&M Costs
- ☒ Maintenance
- ☐ Training

- ■ High
- ☒ Medium
- ☐ Low

BMP: Dust Control

DC



OBJECTIVES

- ☒ Housekeeping Practices
- ☐ Contain Waste
- ☒ Minimize Disturbed Areas
- ☒ Stabilize Disturbed Areas
- ☐ Protect Slopes/Channels
- ☐ Control Site Perimeter
- ☐ Control Internal Erosion

DESCRIPTION:

Dust control measures are used to stabilize soil from wind erosion, and reduce dust by construction activities.

APPLICATION:

- ► Dust control is useful in any process area, loading and unloading area, material handling areas, and transfer areas where dust is generated. Street sweeping is limited to areas that are paved.

INSTALLATION/APPLICATION CRITERIA:

- ► Mechanical dust collection systems are designed according to the size of dust particles and the amount of air to be processed. Manufacturers' recommendations should be followed for installation (as well as the design of the equipment).
- ► Two kinds of street weepers are common: brush and vacuum. Vacuum sweepers are more efficient and work best when the area is dry.
- ► Mechanical equipment should be operated according to the manufacturers' recommendations and should be inspected regularly.

LIMITATIONS:

- ► Is generally more expensive than manual systems.
- ► May be impossible to maintain by plant personnel (the more elaborate equipment).
- ► Is labor and equipment intensive and may not be effective for all pollutants (street sweepers).

MAINTENANCE:

- ► If water sprayers are used, dust-contaminated waters should be collected and taken
- ► for treatment. Areas will probably need to be resprayed to keep dust from
- ► spreading.

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TARGETED POLLUTANTS

- ■ Sediment
- ☐ Nutrients
- ☐ Toxic Materials
- ☐ Oil & Grease
- ☐ Floatable Materials
- ☐ Other Waste

- ■ High Impact
- ☒ Medium Impact
- ☐ Low or Unknown Impact

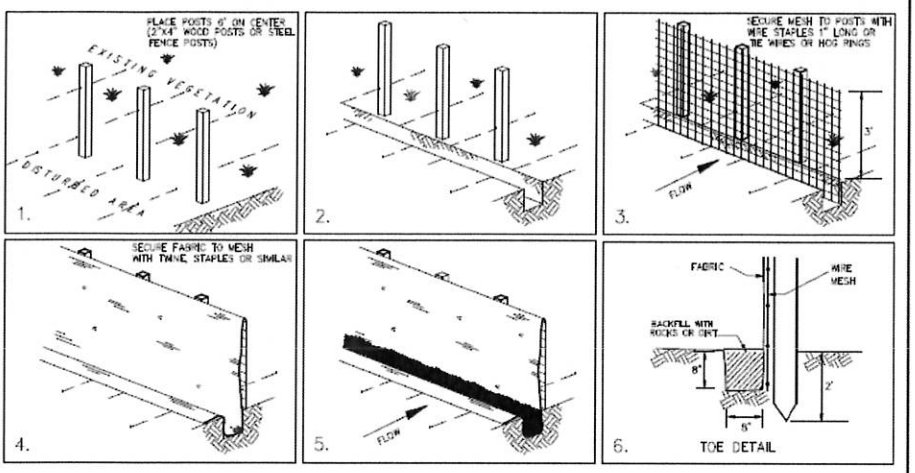
IMPLEMENTATION REQUIREMENTS

- ☒ Capital Costs
- ☐ O&M Costs
- ☒ Maintenance
- ☒ Training

- ■ High
- ☒ Medium
- ☐ Low

BMP: Silt Fence

SF



OBJECTIVES

- ☐ Housekeeping Practices
- ☐ Contain Waste
- ☐ Minimize Disturbed Areas
- ☐ Stabilize Disturbed Areas
- ☒ Protect Slopes/Channels
- ☒ Control Site Perimeter
- ☒ Control Internal Erosion

DESCRIPTION:

- A temporary sediment barrier consisting of entrenched filter fabric stretched across and secured to supporting posts.

APPLICATION:

- Perimeter control: place barrier at downgradient limits of disturbance
- Sediment barrier: place barrier at toe of slope or soil stockpile
- Protection of existing waterways: place barrier at top of stream bank
- Inlet protection: place fence surrounding catchbasins

INSTALLATION/APPLICATION CRITERIA:

- Place posts 6 feet apart on center along contour (or use preassembled unit) and drive 2 feet minimum into ground. Excavate an anchor trench immediately upgradient of posts.
- Secure wire mesh (14 gage min. With 6 inch openings) to upslope side of posts. Attach with heavy duty 1 inch long wire staples, tie wires or hog rings.
- Cut fabric to required width, unroll along length of barrier and drape over barrier. Secure fabric to mesh with twine, staples, or similar, with trailing edge extending into anchor trench.
- Backfill trench over filter fabric to anchor.

LIMITATIONS:

- Recommended maximum drainage area of 0.5 acre per 100 feet of fence
- Recommended maximum upgradient slope length of 150 feet
- Recommended maximum uphill grade of 2:1 (50%)
- Recommended maximum flow rate of 0.5 cfs
- Ponding should not be allowed behind fence

MAINTENANCE:

- Inspect immediately after any rainfall and at least daily during prolonged rainfall.
- Look for runoff bypassing ends of barriers or undercutting barriers.
- Repair or replace damaged areas of the barrier and remove accumulated sediment.
- Reanchor fence as necessary to prevent shortcutting.
- Remove accumulated sediment when it reaches ½ the height of the fence.

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TARGETED POLLUTANTS

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- ☐ Oil & Grease
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- ☐ Other Waste

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IMPLEMENTATION REQUIREMENTS

- ☒ Capital Costs
- ☒ O&M Costs
- ☒ Maintenance
- ☐ Training

- ■ High
- ☒ Medium
- ☐ Low