

STORM WATER FACILITY AGREEMENT

THIS AGREEMENT, is made and entered into this 2nd day of March, 2021, by and between McArthur Towns-19, LC (hereinafter referred to as "Owner", and American Fork City (hereinafter referred to as the "City"), a Municipal Corporation.

RECITALS

WHEREAS, the Owner desires to improve, develop or redevelop real property located at approximately 480 South 1000 West in American Fork City, Utah County, State of Utah (hereinafter referred to as the "Property"), which is more particularly described in Exhibit A attached hereto;

WHEREAS, said development requires the installation and maintenance of storm water facilities (hereinafter referred to as "Facilities") to be constructed according to designs and plans approved by the City;

WHEREAS, the Owner, for and in behalf of its administrators, executors, successors, heirs, or assigns, including any homeowners association, recognizes and agrees that the health, safety, and welfare of the citizens of the City require that the Facilities be constructed and adequately maintained on the Property throughout the life of the development; and

NOW, THEREFORE, in consideration of the foregoing, the mutual covenants contained herein, and the following terms and conditions, the parties hereto agree as follows:

SECTION 1 FACILITIES

Facilities include all storm water detention and control structures, flood control devices, or other improvements, which may include, but is not limited to all pipes, channels, or other structures and infrastructure built to convey storm water to the Facilities, as well as all structures, improvements, and vegetation provided to control the quantity and quality of the storm water which are required by the City in the site plan attached hereto as Exhibit B.

SECTION 2 FACILITIES CONSTRUCTION

The Owner shall, at its sole cost and expense, construct the Facilities in accordance with the plans and specifications for the development approved by the City. Owner understands and agrees that modifications may be needed to make the system work properly after the Facilities are installed and agrees to make modifications and adjustments as may be necessary and required by the City.

Approved as to form:
Attorney for American Fork City



ENT 144383:2021 PG 1 of 61
ANDREA ALLEN
UTAH COUNTY RECORDER
2021 Aug 18 11:20 am FEE 0.00 BY JR
RECORDED FOR AMERICAN FORK CITY

SECTION 3 MAINTENANCE

The Owner shall, at its sole cost and expense, adequately maintain the Facilities in good working condition acceptable to the City and in accordance with the schedule of long term maintenance activities agreed to by the parties and attached hereto as Exhibit C. Adequate maintenance is herein defined as follows: 1) keeping the Facilities in good working condition so that the Facilities are performing their design functions, 2) performing facility inspections and repairs as may be needed, and 3) replacing and/or modifying portions, or all of the system, as may be needed to maintain the intended function of the facility.

SECTION 4 EASEMENT

The Owner hereby grants permission to the City, its authorized agents, and employees to enter upon the Property and to inspect the Facilities whenever the City deems it necessary. Whenever possible, the City shall provide notice prior to entry. Inspections by the City shall be conducted in a reasonable manner and at reasonable times, as determined appropriate by the City. The purpose of the inspection shall be to determine and ensure that the Facilities are being adequately maintained, are continuing to perform in an adequate manner, and are in compliance with all laws, regulations, and approved plans and specifications. The Owner hereby grants a twenty-five (25) foot access easement in favor of the City with the midpoint of the easement lying over the midpoint of the Facilities identified in the attached plan. This easement shall be limited in scope to allow only those actions which are necessary to allow the City to inspect, ensure adequate maintenance, and to cause any repairs to be made that the City deems necessary. This easement shall include, but is not be limited to, prohibiting the construction of structures or improvements that would impact or obstruct the intended purposes of the Facilities or restrict the ability of the Owner or the City to inspect, maintain, or repair the Facilities.

SECTION 5 FAILURE TO MAINTAIN FACILITIES

In the event the Owner fails to maintain the Facilities in good working order acceptable to the City and in accordance with the maintenance schedule incorporated in this Agreement, the City, in addition to any other remedies provided by State or City code, may, with due notice as provided in Section 6, enter the property and take whatever steps it deems necessary to return the Facilities to good working order. This provision shall not be construed to allow the City to erect any structure of a permanent nature on the property that is not included in the plans and specifications for the development, or other agreement between the parties. It is expressly understood and agreed that the City is under no obligation to maintain or repair the Facilities. The decision to maintain or repair the Facilities shall be at the City's sole discretion and in no event shall this Agreement be construed to impose any such obligation on the City or to create any liability for the City refusing to undertake such a duty.

Approved as to form:
Attorney for American Fork City

**SECTION 6
NOTICE OF DEFICIENCIES**

If the City finds that the Facilities contain any defects or are not being maintained adequately, the City shall provide Owner written notice of the defects or deficiencies and provide Owner with a reasonable time, as determined by the City, to cure such defects or deficiencies.

**SECTION 7
RECOUPMENT OF COSTS**

In the event the City performs work of any nature pursuant to the Agreement, or expends any funds in the performance of said work for labor, use of equipment, supplies, materials, and the like, the Owner shall reimburse the City within thirty (30) days of receipt thereof for all the costs incurred by the City. If not paid within the prescribed time period, the City shall be entitled to record a lien against the real property in the amount of such costs. The actions described in this section are in addition to and not in lieu of any and all legal remedies available to the City as a result of the Owner's failure to maintain the Facilities.

**SECTION 8
LIMITATION OF LIABILITIES**

It is the sole intent of this Agreement to insure the proper construction and maintenance of the Facilities by the Owner. As the Facilities are not part of the City's Storm Water Collection System, this agreement does not create or extend any rights to immunity or liability protections provided by law to municipalities. This Agreement shall not be deemed to create or affect any additional liability of any party for damage alleged to result from or caused by storm water runoff, or to constitute a waiver of any immunity provided to the City through the Utah State Code or Constitution.

**SECTION 9
SEDIMENT ACCUMULATION**

Adequate maintenance shall include control of sediment accumulation resulting from the normal operation of the Facilities. The Owner will make accommodations for the removal and appropriate disposal of all accumulated sediments.

**SECTION 10
REQUIREMENTS AND STANDARDS**

The Parties agree to follow and comply with all requirements applicable to storm water detention and control facilities as by the Utah Department of Environmental Quality, Division of Water Quality, including the Small MS4 General UPDES Permit requirements, and by the City ordinances and Storm Water Management Plan as existing at the time of executing this agreement and as may be amended from time to time. The parties agree that these requirements and regulations are incorporated herein by this reference and that this agreement shall be deemed

Approved as to form:
Attorney for American Fork City

automatically amended to incorporate any and all changes and amendments made thereto after the signing of this agreement.

SECTION 11 INSPECTIONS

The Owner shall perform an annual inspection of the Facilities. The City may require more frequent inspections should it have reason to believe that such inspections are necessary. All inspections shall be conducted by a qualified inspector and the results shall be reported to the City. The purpose of the inspection and reporting is to assure safe and proper functioning of the Facilities, including but not limited to, the structural improvements, berms, outlet structure, pond areas, access roads, vegetation, landscaping, etc. All annual inspection reports shall be submitted to the City Public Works Department no later than September 1 of any given year and shall be on the Maintenance Inspection Report attached hereto as Exhibit D.

SECTION 12 INDEMNITY

The Owner indemnifies and holds harmless the City and its authorized agents and employees for any and all damages, accidents, casualties, occurrences or claims which might arise or be asserted against the City from the construction, presence, existence or maintenance of the facility or facilities by the Owner. In the event a claim is asserted against the City, its authorized agents or employees, the City shall promptly notify the Owner and the Owner shall defend at its own expense any suit based on such claim. If any judgment or claims against the City, its authorized agents or employees shall be allowed, the Owner shall pay for all costs and expenses in connection herewith.

SECTION 13 COVENANT RUNNING WITH THE LAND

This Agreement shall be recorded at the Utah County Recorder's Office and shall constitute a covenant running with the land and shall be binding on the Owner, its administrators, executors, heirs, assigns and any other successors in interest, including any homeowners association.

SECTION 14 REMEDIES

This Agreement may be enforced by proceedings at law or in equity by or against the parties hereto and their respective successors in interest. Any rights or remedies contained in this Agreement shall be in addition, and non-exclusive, to any rights existing under the Utah Code or that may exist under the common law.

Approved as to form:
Attorney for American Fork City

SECTION 15
ATTORNEYS FEES

If any party retains, consults, or uses an attorney because of any breach, default, or failure to perform as required by this Agreement, the non-breaching/defaulting party shall be entitled to reasonable attorney's fees incurred before litigation is filed. In the event that any litigation is commenced to enforce or interpret this Agreement the prevailing party shall be entitled to its attorneys fees, expert witness expenses, and litigation related expenses, including but not limited to court costs.

SECTION 16
THIRD PARTY BENEFICIARIES

This Agreement shall be binding upon and inure solely to the benefit of the parties herein and is not intended to create contractual rights in any third party.

SECTION 17
NO PARTNERSHIP

Nothing contained in this Agreement shall be deemed to create any form of a partnership or joint-venture between the City and Owner.

SECTION 18
UTAH LAW AND VENUE

This Agreement shall be interpreted pursuant to the laws of the State of Utah. Any and all suits for any claims or for any and every breach or dispute arising out of this Agreement shall be maintained in the appropriate court of competent jurisdiction in Utah County, Utah.

SECTION 19
INTEGRATED AGREEMENT

This Agreement sets forth the entire agreement of the parties and supersedes all prior agreements, whether written or oral, that exists between the parties regarding the subject matter of this Agreement.

SECTION 20
SEVERABILITY

The provisions of this agreement shall be severable and if any phrase, clause, sentence or provision is declared unconstitutional, or the applicability thereof to the, its successors and assigns, is held invalid, the remainder of this Covenant shall not be affected thereby.

Approved as to form:
Attorney for American Fork City

SECTION 21
AMENDMENTS

Except as expressly provided elsewhere in this Agreement, no provision of this Agreement may not be modified except in writing agreed to by both parties.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the dates set forth below.

OWNER

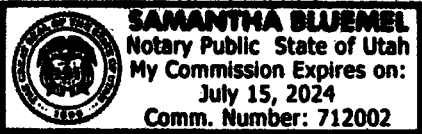
Date: MARCH 3, 2021.

John E. Cassman
By: John E. Cassman
Its: VICE-PRESIDENT

NOTARIZATION

STATE OF UTAH)
) :ss
COUNTY OF UTAH)

The above Agreement was executed on this 3 day of March, 2021 by John E. Cassman, for and on behalf of McArthur Towns-19, LLC, the Owner identified in the above signed Agreement. In executing this Agreement, the signer did swear before me that he is duly authorized to sign the agreement on behalf of the Owner.



Samantha Buemel
NOTARY PUBLIC

AMERICAN FORK CITY

Date: March 18th, 2021.

Scott Sensenbaugher
Scott Sensenbaugher
Director of Public Works

ATTEST:

Geulyn Carter

Approved as to form:
Attorney for American Fork City

Exhibit A

Approved as to form:
Attorney for American Fork City

EXHIBIT A

A portion of Parcel #13:040:0113

Block 2 Plat

Beginning at a point being South 89°53'31" East 1,801.93 feet along section line and South 2,807.85 feet from the Northwest Corner of Section 22, Township 5 South, Range 1 East, Salt Lake Base and Meridian; and running

thence South 89°23'30" East 311.39 feet;
 thence South 00°56'48" West 599.50 feet;
 thence South 01°03'27" West 186.19 feet;
 thence South 00°42'25" West 49.46 feet;
 thence West 309.16 feet;
 thence North 01°29'37" East 56.02 feet;
 thence Northwesterly 23.76 feet along the arc of a 15.00 foot radius curve to the right (center bears North and the chord bears North 44°36'52" West 21.36 feet with a central angle of 90°46'16");
 thence North 00°46'16" East 752.37 feet;
 thence Northeasterly 23.54 feet along the arc of a 15.00 foot radius curve to the right (center bears South 89°22'56" East and the chord bears North 45°34'56" East 21.20 feet with a central angle of 89°55'43") to the point of beginning.

Contains 271,046 Square Feet or 6.222 Acres and 87 Units

Storm Water Detention Parcel

Beginning at a point being South 89°53'31" East 1,053.97 feet along section line and South 4,749.60 feet from the Northwest Corner of Section 22, Township 5 South, Range 1 East, Salt Lake Base and Meridian; and running

thence East 522.95 feet;
 thence South 43°05'03" West 236.16 feet;
 thence South 82°59'11" West 119.78 feet;
 thence North 88°32'33" West 245.68 feet;
 thence North 00°54'06" East 180.88 feet to the point of beginning.

Contains 80,214 Square Feet or 1.841 Acres

Exhibit B

Approved as to form:
Attorney for American Fork City

Long-Term Stormwater Management Plan
Rockwell Ranch Block 2 – Phase 1

EXHIBIT B

Long-Term Stormwater Management Plan

for:

Rockwell Ranch Block 2 – Phase 1
960 West 420 South
American Fork City, Utah, 84003

PURPOSE AND RESPONSIBILITY

As required by the Clean Water Act and resultant local regulations, including American Fork City Municipal Separate Storm Sewer Systems (MS4) Permit, those who develop land are required to build and maintain systems to minimize litter and contaminants in stormwater runoff that pollute waters of the State.

This Long-Term Stormwater Management Plan (LTSWMP) describes the systems, operations and the minimum standard operating procedures (SOPs) necessary to manage pollutants originating from or generated on this property. Any activities or site operations at this property that contaminate water entering the City's stormwater system and generate loose litter must be prohibited, unless SOPs are written to manage those activities or operations, and amended into this LTSWMP.

The project discharges into adjacent public streets that are routed to a detention basin with discharges into ditches and eventually finds its way to Utah Lake. Based on information provided by the Utah Department of Environmental Quality Utah Lake is identified as being impaired due to excess total phosphorus. The LTSWMP is aimed at addressing these impairments in addition to all other pollutants that can be generated by this property.

CONTENTS

SECTION 1: SITE DESCRIPTION, USE AND IMPACT
SECTION 2: TRAINING
SECTION 3: RECORDKEEPING
SECTION 4: CONTACT INFORMATION
SECTION 5: APPENDICES

SECTION 1: SITE DESCRIPTION, USE AND IMPACT

The site infrastructure at our site is limited at controlling and containing pollutants and our operations if managed improperly can contaminate the environment. This LTSWMP includes standard operations procedures (SOP)s that are intended to compensate for the pollution containment limitations of our site infrastructure and direct our maintenance operations to responsibly manage our grounds.

If or when SOPs change or are updated the city will be notified.

Parking, Sidewalk and flatwork

The site consists of private alleys, driveways, and sidewalks that tie to proposed buildings and adjacent public roadways. These hardscape surfaces if not kept property clean can impact stormwater quality.

Any sediment, leaves, debris, spilt fluids or other waste that collects on our parking lots and sidewalks will be carried by runoff to our storm drain inlets. This waste material will settle in our storm drain system increasing maintenance cost and solid and dissolved waste in our runoff can pass through our system ultimately polluting Utah Lake. Maintenance involves regular sweeping, but it can also involve pavement washing to remove stains, slick spots and improve appearance when necessary. Use our Pavement Maintenance and the Pavement Washing SOPs to manage pollutants that collect on our pavements.

Landscaping

Our landscape operations can result in grass clippings, sticks, branches, dirt, mulch, fertilizers, pesticides and other pollutants to fall or be left on our paved areas. This waste material will settle in our storm drain system increasing maintenance cost and solid and dissolved waste in our runoff can pass through our storm drain system ultimately polluting Utah Lake. The primary pollutant impairing Utah Lake is organic material so it is vital that our paved areas with direct connection to the City storm drain systems remain clean of landscape debris.

Use our Landscape Maintenance SOP to prevent this potential pollution source from affecting the Utah Lake.

Storm Drain System

The storm drain inlets direct all runoff to public streets that are eventually routed through an offsite detention basin and through a stormwater treatment unit that is designed to capture floating material and heavier sediment particles, but does not trap suspended or dissolved pollutants. This device is susceptible to bypass and scour during large storm events and the dissolved pollutants will pass through and harm Utah Lake. Also, our stormwater treatment system holds water that can breed mosquitoes. It is important to regularly maintain this system to protect Utah Lake and prevent mosquito breeding. Use our Storm Drain Maintenance SOP manage our storm drain system responsibly.

Waste Management

Each condominium unit and townhome unit within the project will have their own individual dumpster. Good waste management systems, if managed improperly, can become the source of the very pollution that they were intended to control. Use our Waste Management SOP to control and manage the solid waste we generate.

Snow and Ice Removal Management

Salt is a necessary pollutant and is vital to ensuring a safe parking and pedestrian walkways. However, the snow removal operations if improperly managed will increase our salt impact to our own vegetation and local water resources. Use our Snow and Ice Removal SOP to minimize our salt impact.

SECTION 2: TRAINING

Ensure that all employees and maintenance contractors know and understand the SOPs specifically written to manage and maintain the property. Maintenance contractors must use the stronger of their Company and the LTSWMP SOPs. File all training records in Appendix C.

SECTION 3: RECORDKEEPING

Maintain records of operation and maintenance activities in accordance with SOPs. Mail a copy of the record to American Fork City Stormwater Division annually.

SECTION 4: CONTACT INFORMATION.

HOA

Rockwell Ranch Master Owners Association, Inc.
520 South 850 East, Suite A300,
Lehi, Utah 84043.

Contact: TBD

Developer

White Horse Developers
520 South 850 East, Suite A4
Lehi, Utah 84043

Contact: Jake Horan
(801) 362-8420

SECTION 5: APPENDICES

Appendix A- Site Drawings and Details

Appendix B- SOPs

Appendix C- UniStorm System Operation and Maintenance Manual

Appendix D- Recordkeeping Documents

APPENDIX A – SITE DRAWINGS AND DETAILS

EN SIGN
THE STANDARD IN ENGINEERING

SALT LAKE CITY
41 W. 10000 S, Suite 500
Sandy, UT 84070
Phone: 801.252.0299

LAYTON
Phone: 801.541.1100

TOOELE
Phone: 435.843.3590

CEDAR CITY
Phone: 435.865.1453

RICHFIELD
Phone: 435.887.2583

WWW.ENSIGNENGINEERING.COM

DESIGNED BY: [Blank]
DRAWN BY: [Blank]
CHECKED BY: [Blank]
DATE: [Blank]

THE VILLAS AT ROCKWELL RANCH
BLOCK 2 - PHASE 1
960 WEST 420 SOUTH
AMERICAN FORK, UTAH 84003

STORM WATER MANAGEMENT PLAN

PROJECT: [Blank]
DATE: [Blank]
SCALE: [Blank]

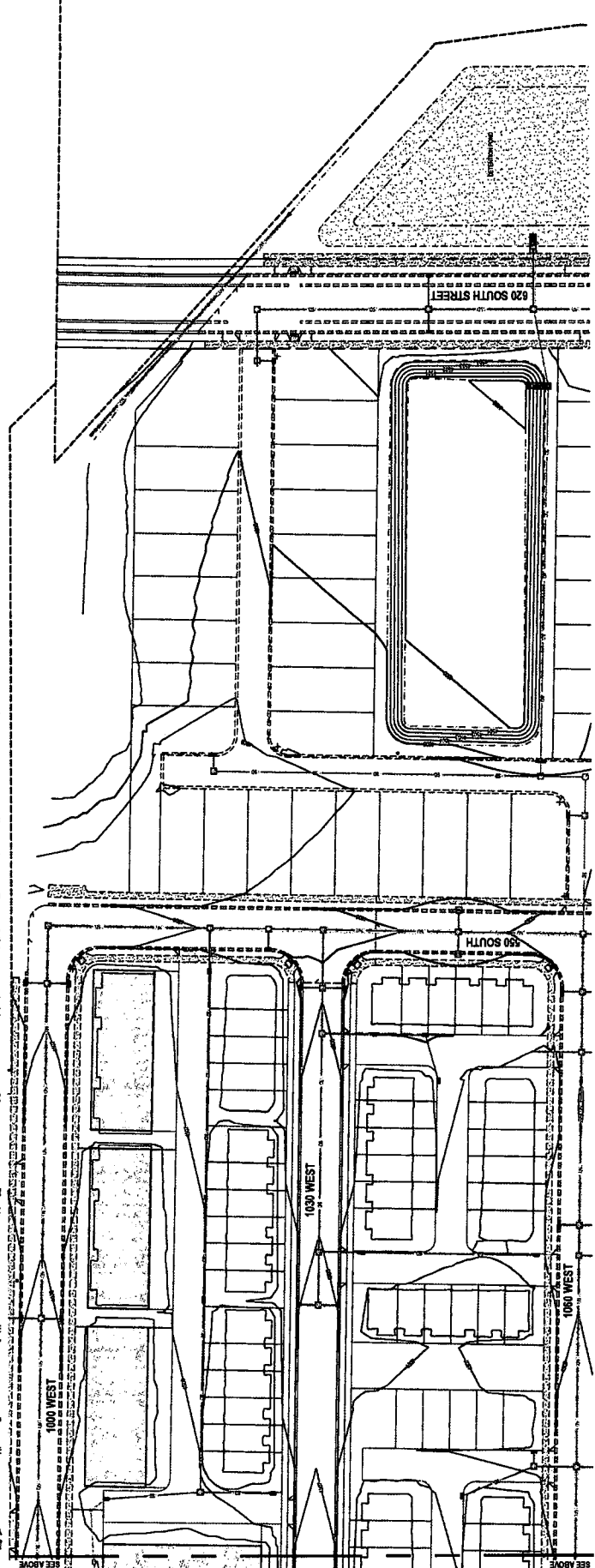
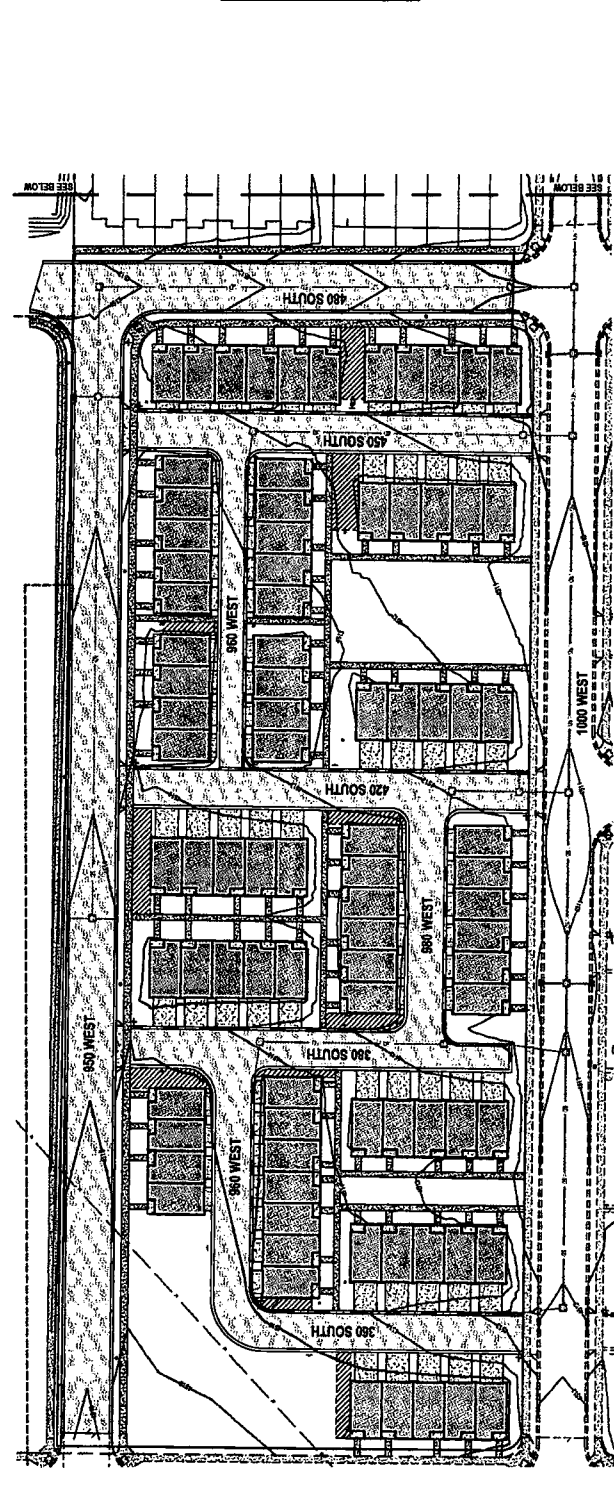
EX-2

LEGEND

- ROCKWELL MANHOLE / PHASE 1 FACILITY
- STORM CLEANOUT BOX
- STORM CLEAN-OUT BASIN
- STORM CLEAN-OUT BOX
- VAPOUR CHAMBER BOX
- STORM DRAIN LINE
- POLE STRUCTURE
- SOAK STORAGE

GENERAL GOOD HOUSEKEEPING (GHP)

- DIRTY/CLEAN STORM WATER SYSTEM FACILITIES AS REQUIRED, AT A MINIMUM OF ONCE PER YEAR.
- SWEEP PAVED AREAS REGULARLY AND AS REQUIRED DURING INSPECTIONS, INSPECT AREAS MONTHLY FOR DEBRIS AND SEDIMENT.
- INSPECT AREAS AFTER LANDSCAPE MAINTENANCE TO ENSURE PLANT FOLIAGE DOES NOT ENTER STORM DRAIN SYSTEM.
- DURING LANDSCAPE MAINTENANCE DISKUS DO NOT COVER OR FERTILIZER ENTERS INTO THE STORM DRAIN SYSTEM.





SALT LAKE CITY
45 W. 1000 S., Suite 500
Sandy, UT 84070
Phone: 801.255.0059

LAYTON
Phone: 801.547.1100

TOOELE
Phone: 435.843.3590

CEDAR CITY
Phone: 435.865.1453

RICHFIELD
Phone: 435.882.2883

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 CIVIL ENGINEERING
 ARCHITECTURE
 LANDSCAPE ARCHITECTURE
 SURVEYING
 ENVIRONMENTAL ENGINEERING
 PLUMBING
 MECHANICAL ENGINEERING
 ELECTRICAL ENGINEERING

THE VILLAS AT ROCKWELL RANCH
BLOCK 2 - PHASE 1
960 WEST 420 SOUTH
AMERICAN FORK, UTAH 84003

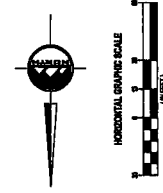


PLANNED AND CONTROLLED DEVELOPMENT

OVERALL SITE PLAN

DATE: 07/14/21
 DRAWN BY: JAMES HOGGAR
 CHECKED BY: JAMES HOGGAR
 PROJECT NO: 21-0000

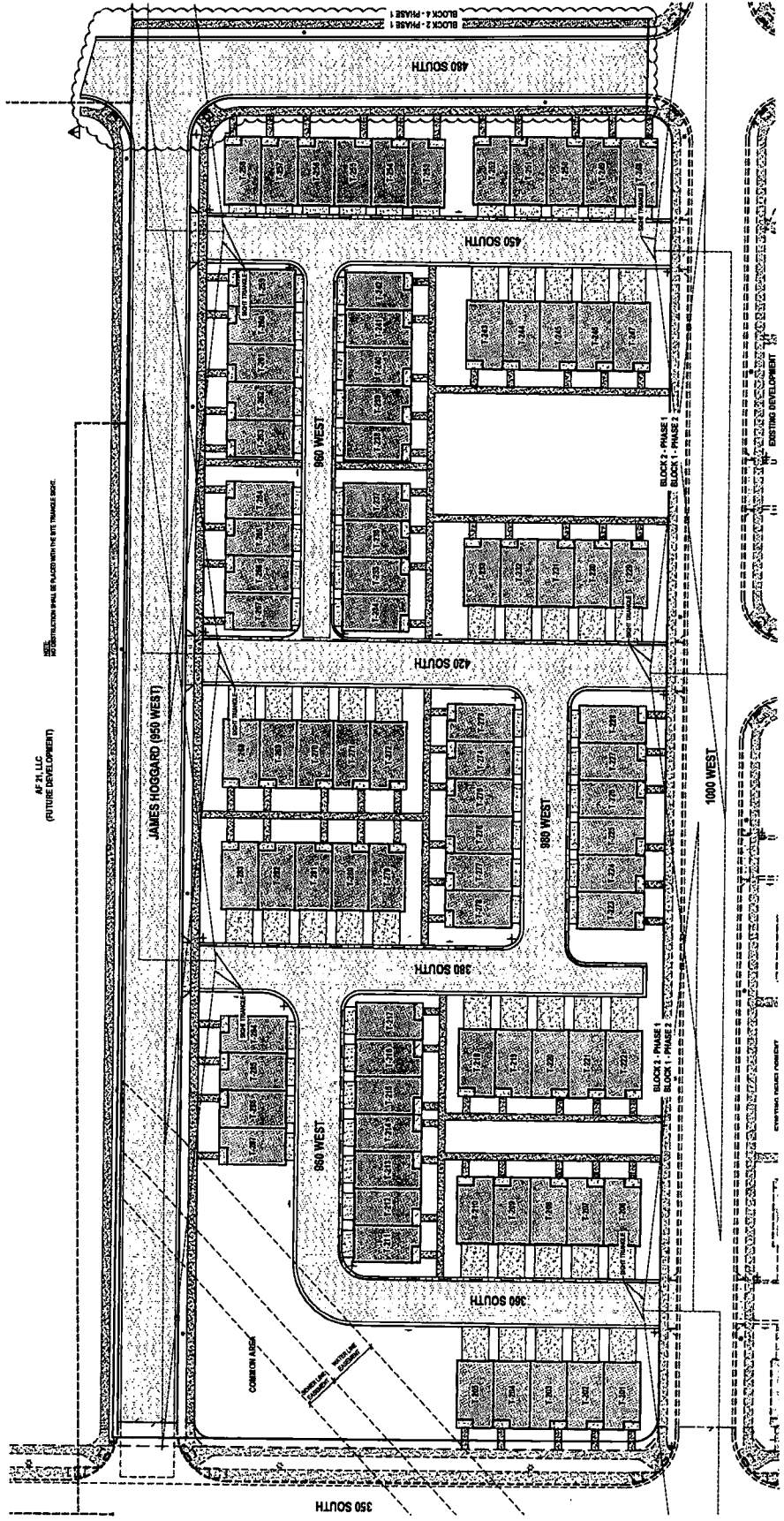
C-100



- GENERAL NOTES**
1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
 2. ALL LANDSCAPE ELEMENTS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS.
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 9. ALL LANDSCAPE ELEMENTS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS.
 10. ALL LANDSCAPE ELEMENTS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS.

BENCHMARK
 THE NUMBER OF DISTANCE
 SHALL BE AS SHOWN
 CITY: 453.28

811
 CALL BEFORE YOU DIG
 811 IS THE NUMBER TO CALL
 BEFORE ANY EXCAVATION OR
 CONSTRUCTION



AF, LLC (FUTURE DEVELOPMENT)

JAMES HOGGAR (950 WEST)

BLOCK 1 - PHASE 1
 BLOCK 1 - PHASE 2

BLOCK 1 - PHASE 1
 BLOCK 1 - PHASE 2

350 SOUTH

BLOCK 4 - PHASE 1
 BLOCK 2 - PHASE 1

EXISTING TRAILER PARKING

EXISTING DEVELOPMENT

EN SIGN
THE STANDARD IN ENGINEERING

SALT LAKE CITY
45 W. 1000 S., Suite 400
Salt Lake, UT 84119
Phone: 801.256.0059

LAYTON
Phone: 801.547.1100

TOOELE
Phone: 435.843.3660

CEDAR CITY
Phone: 435.861.1463

RICHFIELD
Phone: 435.886.2960

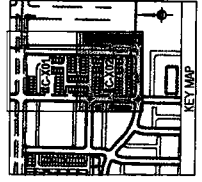
WWW.ENSIGNENGINEERING.COM

THE VILLAS AT ROCKWELL RANCH
BLOCK 2 - PHASE 1
960 WEST 420 SOUTH
AMERICAN FORK, UTAH 84003



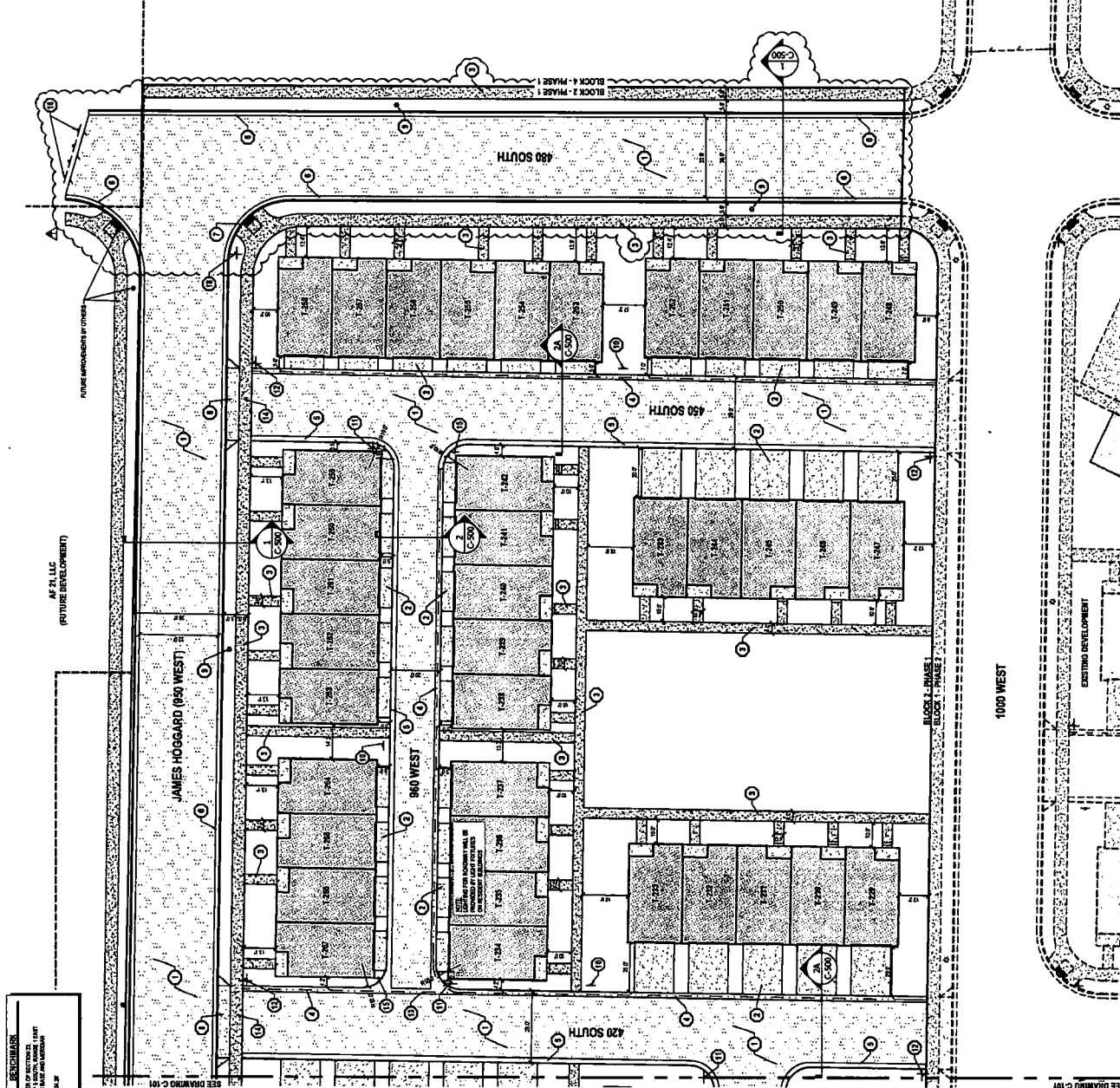
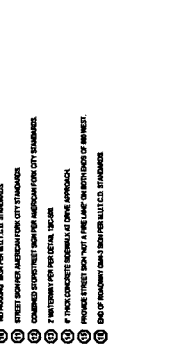
SITE PLAN

C-102



- GENERAL NOTES**
1. ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
 2. ALL IMPROVEMENTS MUST COMPLY WITH ALL APPLICABLE STANDARDS AND REGULATIONS.
 3. SEE LANDSCAPE ARCHITECTURAL PLANS FOR CONCRETE MATERIAL, COLOR, FINISH, AND SLOPE INTERIORS.
 4. PROVIDE SLOPE INDICATIONS.
 5. ALL SLOPE IMPROVEMENTS ESTABLISHED BY CONSTRUCTION SHALL BE RESTORED OR IMPROVED TO EXISTING CONDITIONS OR BETTER.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.
 7. THE CONTRACTOR TO PROTECT AND PRESERVE ALL EXISTING ENVIRONMENTAL UTILITIES AND SHALL ETC UNLESS OTHERWISE NOTED ON THESE PLANS.
 8. NO CONSTRUCTION SHALL BE PLACED WITHIN ANY SHIELD TRENCH FOR SECTION 18.1.19.

- SCOPE OF WORK:**
1. PROVIDE ALL NECESSARY CONSTRUCTION FOR THE PROPOSED IMPROVEMENTS AND/OR RESTORATION OF EXISTING UTILITIES AND/OR STRUCTURES.
 2. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.
 3. CONSTRUCT CONCRETE PER THESE PLANS.
 4. CONSTRUCT CONCRETE PER THESE PLANS.
 5. PROVIDE ALL NECESSARY CONSTRUCTION FOR THE PROPOSED IMPROVEMENTS AND/OR RESTORATION OF EXISTING UTILITIES AND/OR STRUCTURES.
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 9. PROVIDE ALL NECESSARY CONSTRUCTION FOR THE PROPOSED IMPROVEMENTS AND/OR RESTORATION OF EXISTING UTILITIES AND/OR STRUCTURES.
 10. PROVIDE ALL NECESSARY CONSTRUCTION FOR THE PROPOSED IMPROVEMENTS AND/OR RESTORATION OF EXISTING UTILITIES AND/OR STRUCTURES.



REVISIONS

NO.	DATE	DESCRIPTION
1	12/15/19	ISSUED FOR PERMITS

SEE DRAWING C-101

ALL IMPROVEMENTS TO BE PLACED WITHIN THE SHIELD TRENCH SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.

CONCRETE SHALL BE PLACED WITHIN ANY SHIELD TRENCH FOR SECTION 18.1.19.

SEE DRAWING C-101





SALT LAKE CITY
45 W. 1000 S., Suite 500
New City, UT 84143
Phone: 801.262.0228

LAYTON
Phone: 801.547.1100

TOOELE
Phone: 435.843.3360

HEMLOCK
Phone: 435.866.1433

RICHFIELD
Phone: 435.866.2963

WWW.ENSIGNENGINEERING.COM

WEBSITE DEVELOPMENT
LAND SURVEYING
CONCRETE
CONSTRUCTION
INSULATION

THE VILLAS AT ROCKWELL RANCH
BLOCK 2 - PHASE 1
960 WEST 420 SOUTH
AMERICAN FORK, UTAH 84003

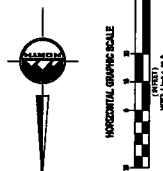


DATE: 08/11/2021

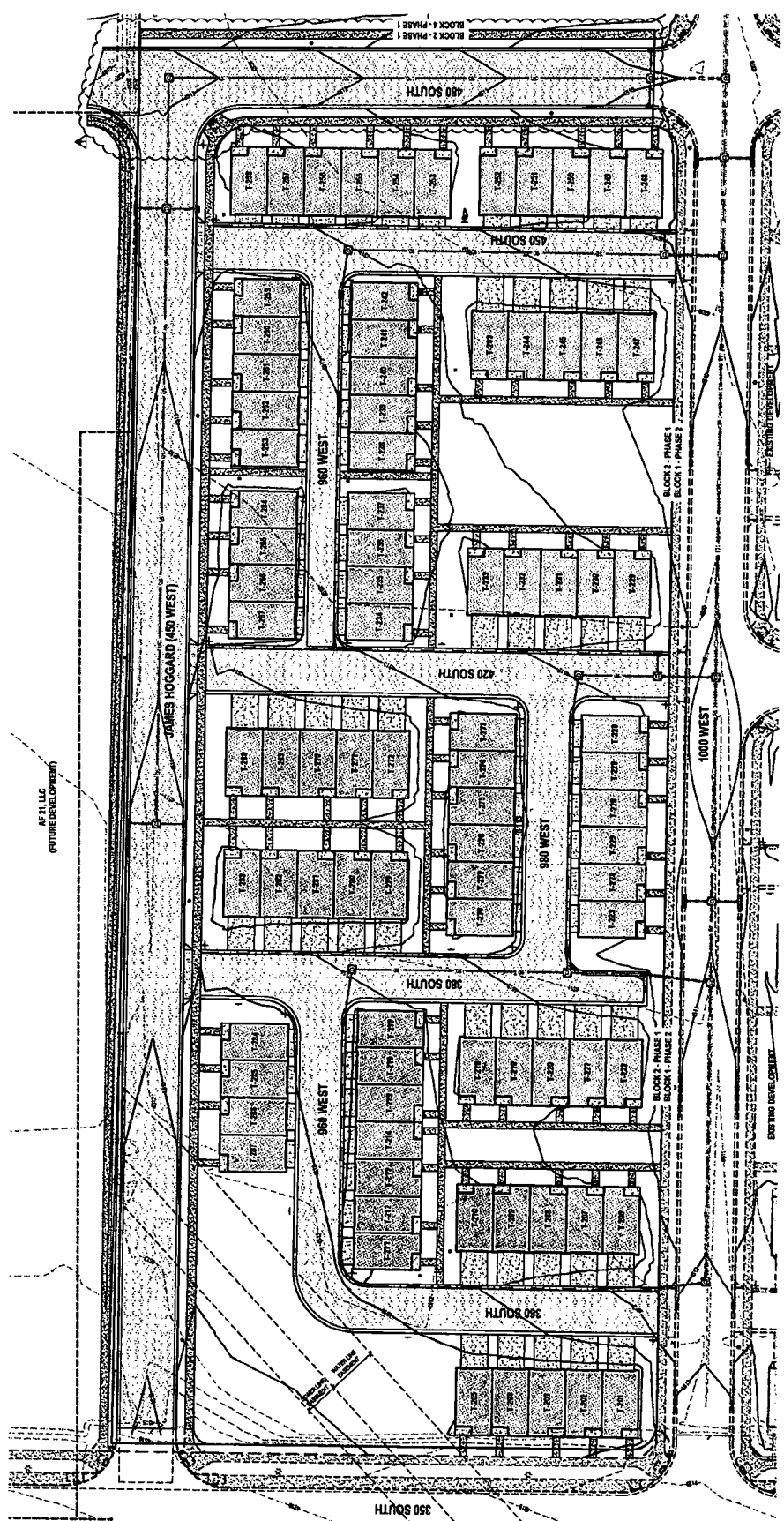
OVERALL GRADING
PLAN

Table with 2 columns: Description, Quantity. Includes items like CONCRETE, REBAR, etc.

C-200



- 1. ALL WORK TO COMPLY WITH THE CONTRACTOR'S STANDARDS AND SPECIFICATIONS.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS.
3. ALL WORK SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS.
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811
CALL BEFORE YOU DIG
UTAH
UTAH DEPARTMENT OF HERITAGE AND ARTS

CALL BEFORE YOU DIG
UTAH
UTAH DEPARTMENT OF HERITAGE AND ARTS



THE STANDARD IN ENGINEERING
SALT LAKE CITY
45 W. 1000 S., Suite 500
Phone: 801.261.0520

LAYTON
Phone: 801.547.1100

PODSIELE
Phone: 801.545.3800

PROFFER
Phone: 435.965.1433

RICHFIELD
Phone: 435.965.2863

WEST VALLEY DEVELOPMENT
800 WEST VALLEY BLVD
SUITE 1000
SALT LAKE CITY, UT 84119
PHONE: 801.545.3800

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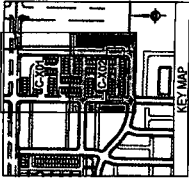
THE VILLAS AT ROCKWELL RANCH BLOCK 2 - PHASE 1 960 WEST 420 SOUTH AMERICAN FORK, UTAH 84003



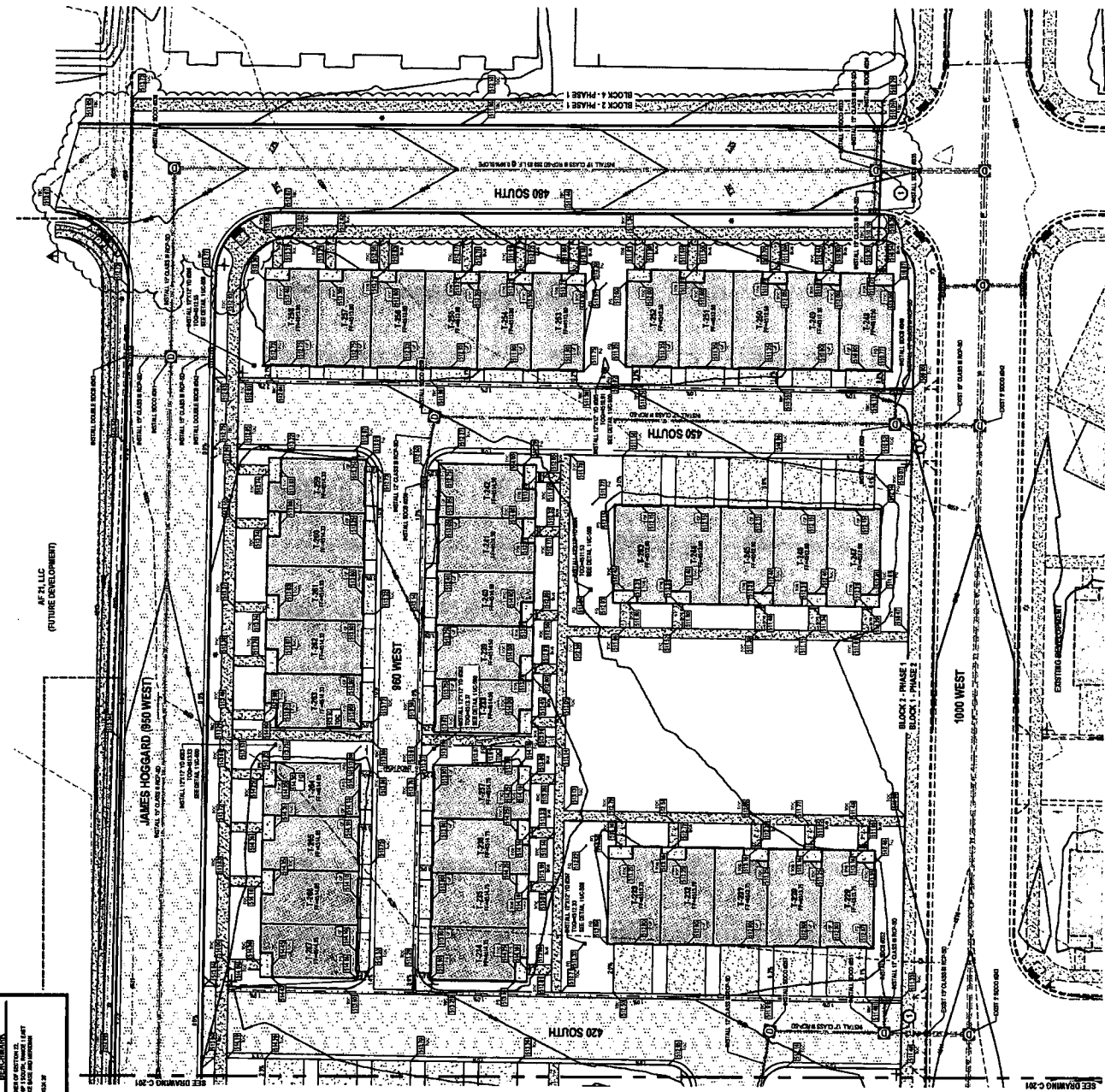
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BY: [Signature]

GRADING PLAN

C-202



- GENERAL NOTE**
1. ALL WORK TO COMPLY WITH THE ENGINEERING AGENCY STANDARDS AND SPECIFICATIONS.
 2. ALL IMPROVEMENTS SHALL COMPLY WITH ALL STANDARDS AND SPECIFICATIONS.
 3. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE ENGINEERING AGENCY AND THE REQUIREMENTS OF THE ENGINEERING AGENCY AND THE REQUIREMENTS OF THE ENGINEERING AGENCY AND THE REQUIREMENTS OF THE ENGINEERING AGENCY.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE ENGINEERING AGENCY AND THE REQUIREMENTS OF THE ENGINEERING AGENCY AND THE REQUIREMENTS OF THE ENGINEERING AGENCY.
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 8. EXISTING UTILITIES AND IMPROVEMENTS ARE SHOWN FROM APPROVED LOCATIONS AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES AND IMPROVEMENTS AND THE REQUIREMENTS OF THE ENGINEERING AGENCY AND THE REQUIREMENTS OF THE ENGINEERING AGENCY AND THE REQUIREMENTS OF THE ENGINEERING AGENCY.
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REVISIONS
NO. DATE
1 08/11/21



SEE DRAWING C-201



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CORONA
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RICHFIELD
 Phone: 435.985.2983

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 PHONE: 801.262.0228

THE VILLAS AT ROCKWELL RANCH
BLOCK 2 - PHASE 1
 960 WEST 420 SOUTH
 AMERICAN FORK, UTAH 84003

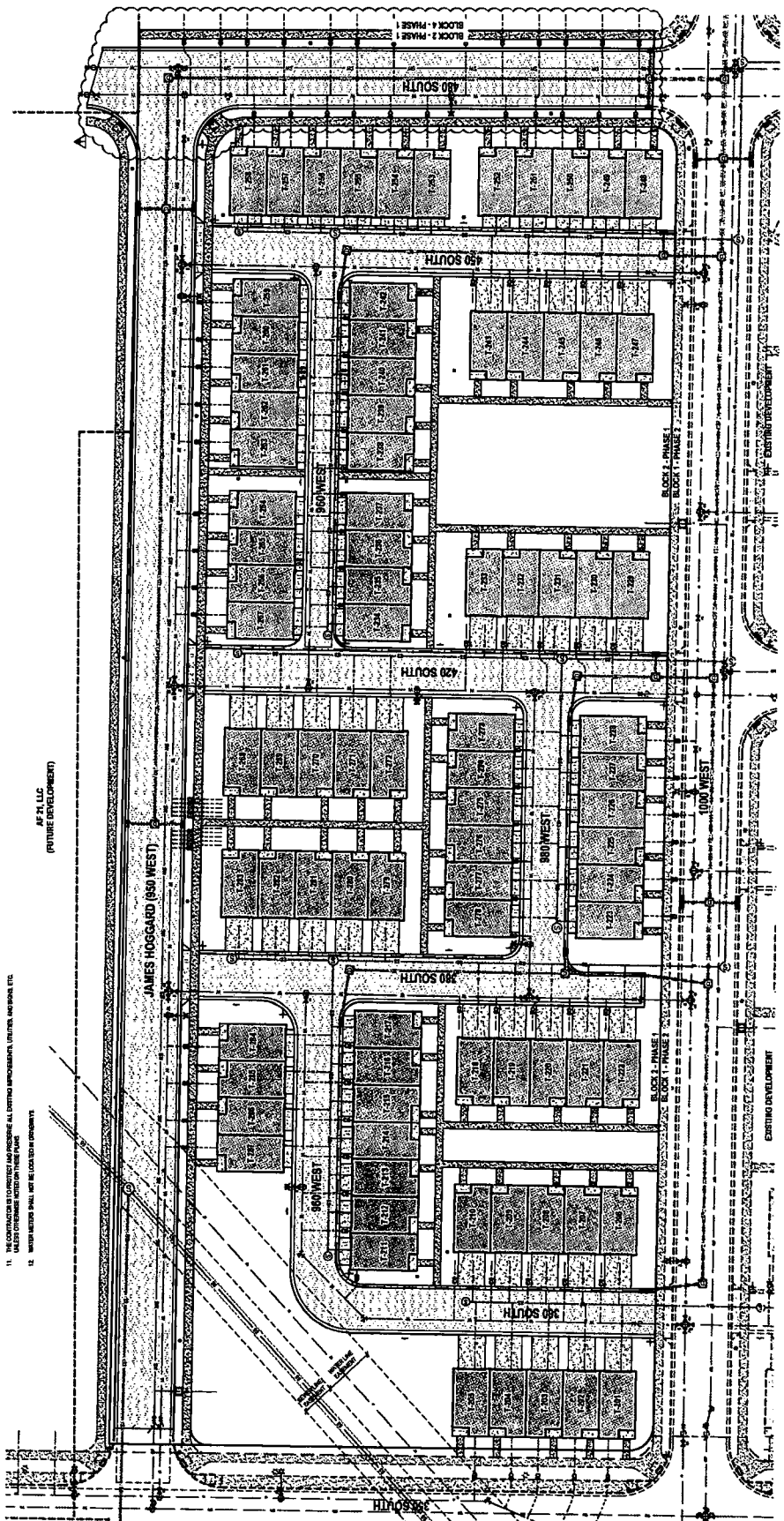
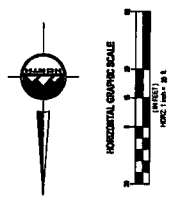


OVERALL UTILITY PLAN

DATE	DESCRIPTION

C-300

- GENERAL NOTE:**
- ALL WORK TO COMPLY WITH THE CONFORMANCE STANDARDS AND SPECIFICATIONS.
 - EXISTING UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES.
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BENCHMARK
 NUMBER OF BENCHMARKS TO BE SET SHALL BE AS SHOWN ON THE PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL BENCHMARKS.

811
 CALL BEFORE YOU DIGIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO CONSTRUCTION.



SALT LAKE CITY
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TOOELE
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CEDEAR CITY
 Phone: 435.843.3590

RICHFIELD
 Phone: 435.886.2893

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REGISTERED PROFESSIONAL ENGINEER
 STATE OF UTAH
 LICENSE NO. 38817
 CIVIL ENGINEER
 DATE OF EXPIRATION: 12/31/2024

THE VILLAS AT ROCKWELL RANCH
BLOCK 2 - PHASE 1
 960 WEST 420 SOUTH
 AMERICAN FORK, UTAH 84003



EROSION CONTROL PLAN

C-400

- SCOPE OF WORK:**
1. PREPARE EROSION CONTROL PLAN FOR THE FOLLOWING:
 - (1) ALL EXCAVATION AND EROSION CONTROL MEASURES TO BE INSTALLED AT THE COMMENCEMENT OF CONSTRUCTION.
 - (2) ALL EXCAVATION AND EROSION CONTROL MEASURES TO BE INSTALLED AT THE COMMENCEMENT OF CONSTRUCTION.
 - (3) ALL EXCAVATION AND EROSION CONTROL MEASURES TO BE INSTALLED AT THE COMMENCEMENT OF CONSTRUCTION.
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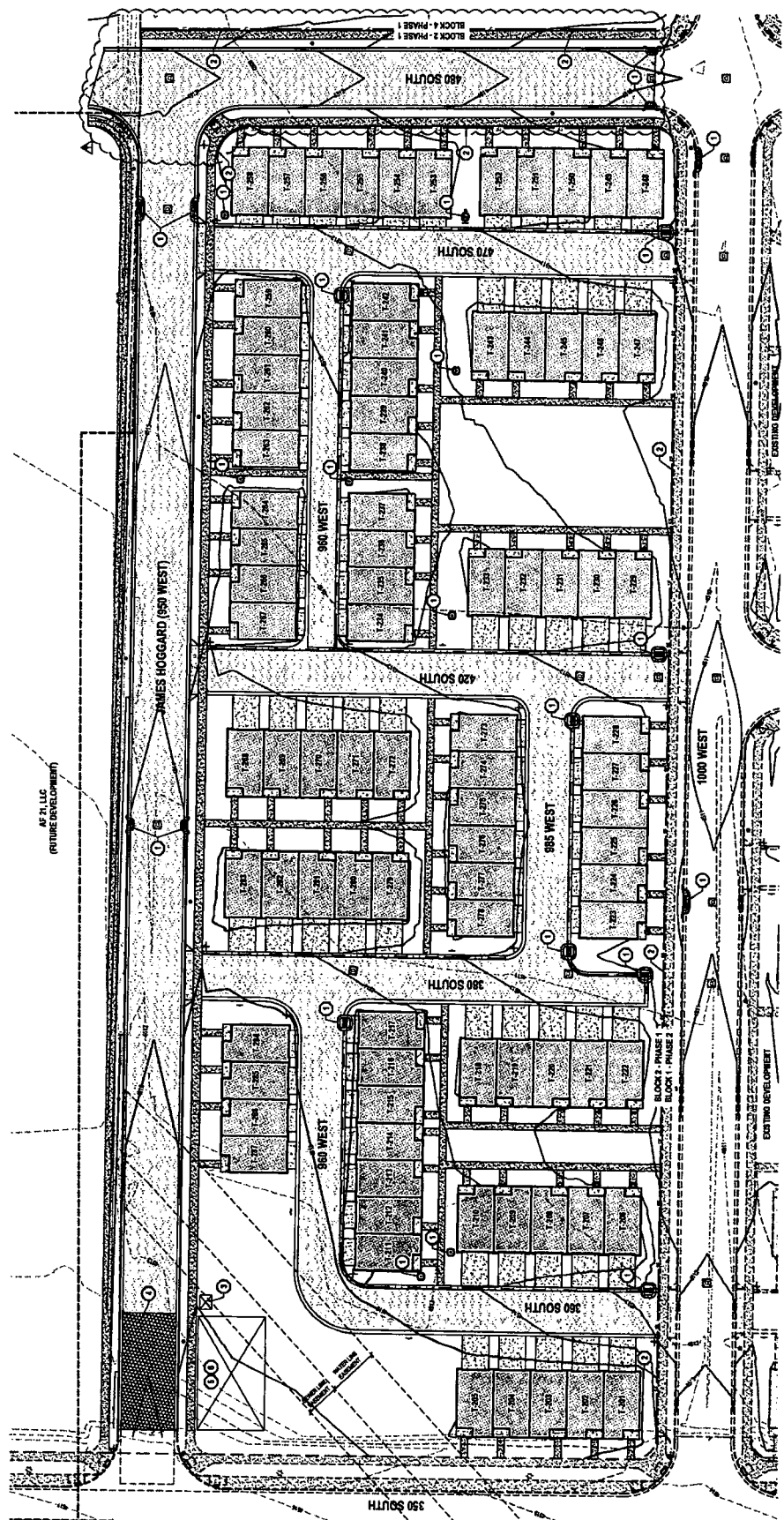
- GENERAL NOTES:**
1. THIS PLAN IS A PRELIMINARY DESIGN AND SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE LOCAL HEALTH DEPARTMENT AND THE LOCAL WATER UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.
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BENCHMARK

SEE SHEET C-400 FOR BENCHMARK DATA
 ALL ELEVATIONS ARE IN FEET UNLESS OTHERWISE NOTED
 ELEVATION = 4242.0

811

CALL 811 BEFORE ANY EXCAVATION OR CONSTRUCTION
 TO IDENTIFY UTILITIES AND PREVENT DAMAGE TO THEM



EROSION CONTROL PLAN

C-400

DATE: 10/15/2021
 DRAWN BY: JH
 CHECKED BY: JH
 APPROVED BY: JH

EN SIGN
THE STANDARD IN ENGINEERING

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Salt Lake City, UT 84119
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Phone: 801.547.1100

TOOELE
Phone: 435.843.5560

ST. GEORGE
Phone: 435.866.1463

RICHFIELD
Phone: 435.866.2663

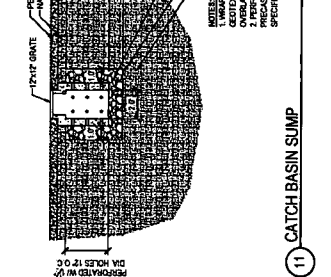
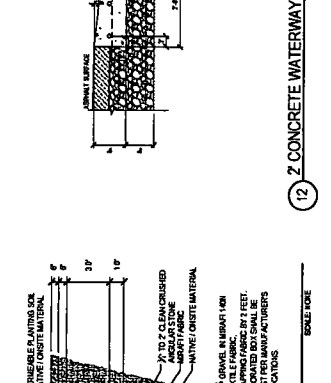
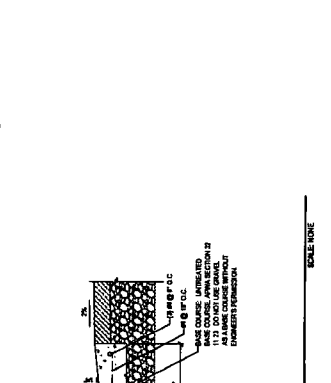
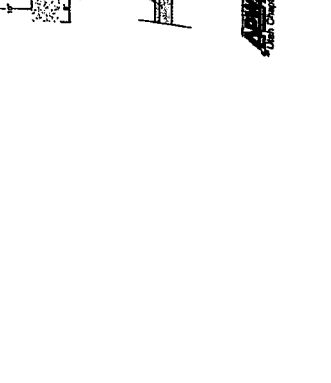
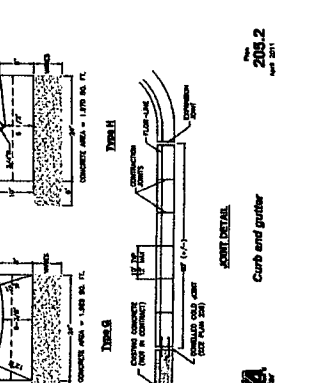
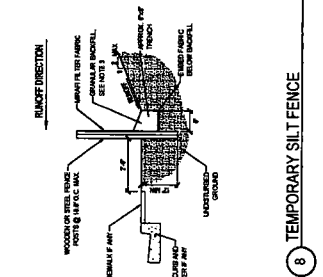
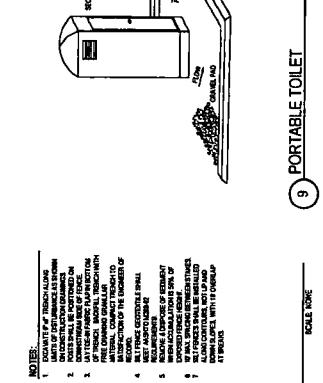
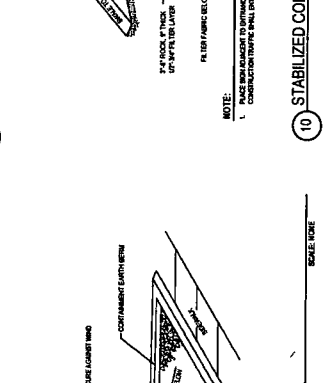
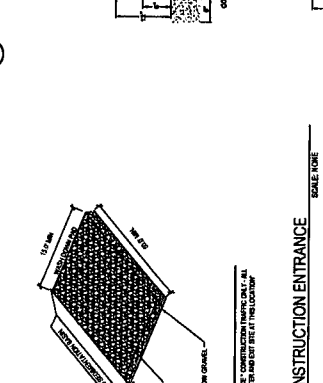
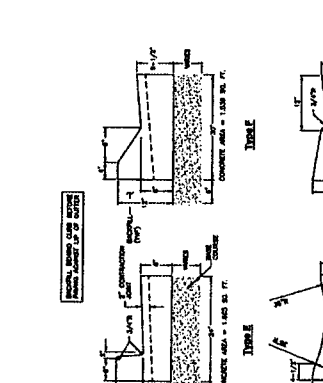
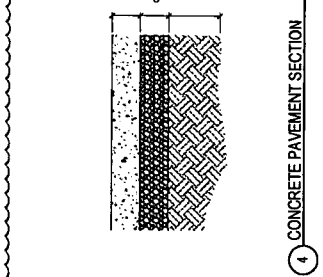
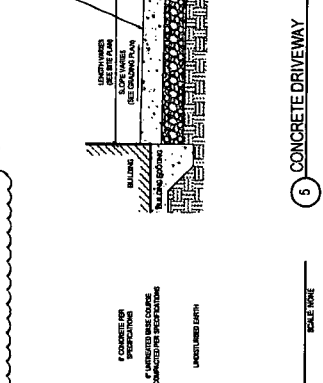
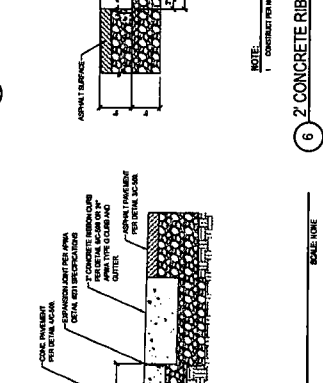
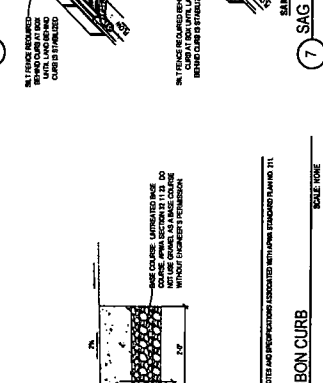
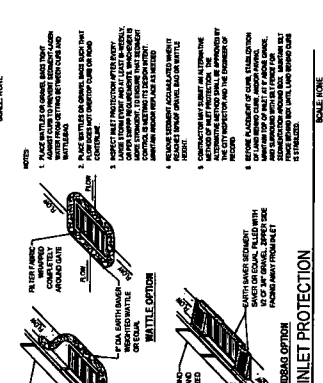
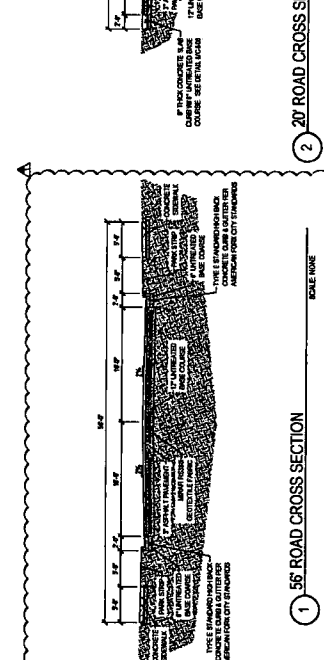
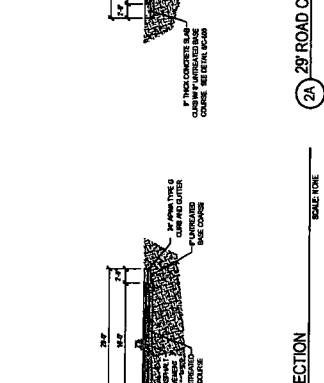
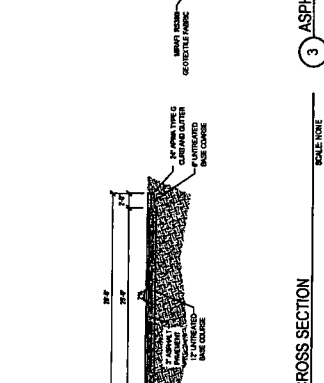
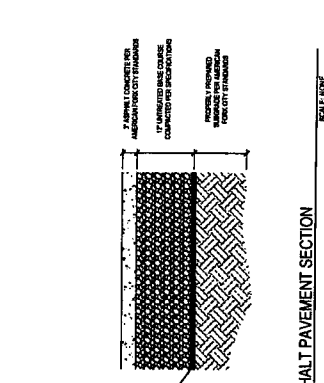
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THE VILLAS AT ROCKWELL RANCH
BLOCK 2 - PHASE 1
960 WEST 420 SOUTH
AMERICAN FORK, UTAH 84003

UTAH PROFESSIONAL ENGINEERS & ARCHITECTS
STATE OF UTAH
No. 20852
Date: 04/20/21

DETAILS SHEET

C-500



20852
04/20/21

UTAH PROFESSIONAL ENGINEERS & ARCHITECTS

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



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WWW.ENSIGNENGINEERING.COM
WEBSITE DEVELOPER
CALVIN HARRIS
LAYOUT DESIGNER
DUSTIN WILSON
CHECKER
BRIAN BAKER

THE VILLAS AT ROCKWELL RANCH
BLOCK 2 - PHASE 1
980 WEST 420 SOUTH
AMERICAN FORK, UTAH 84003

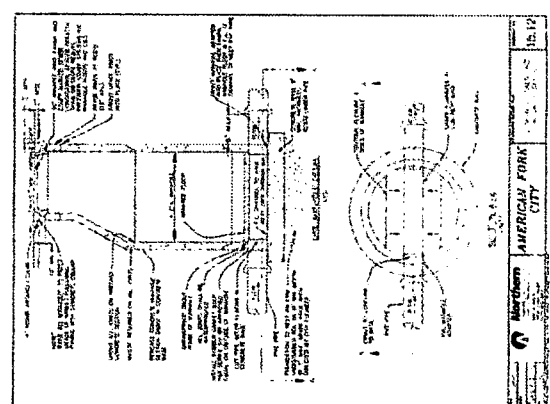
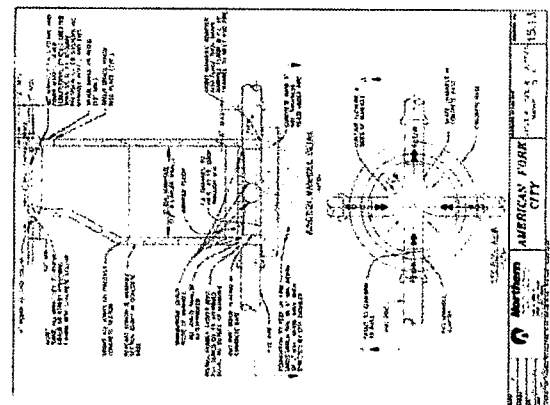
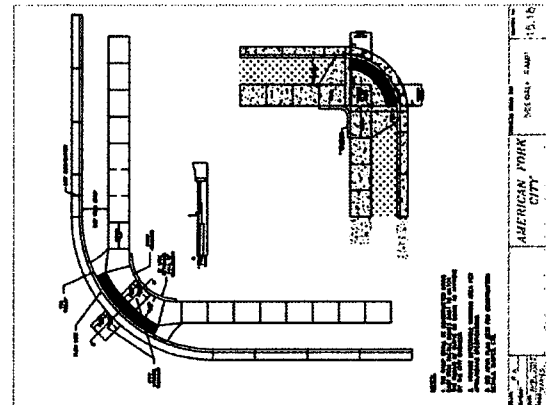
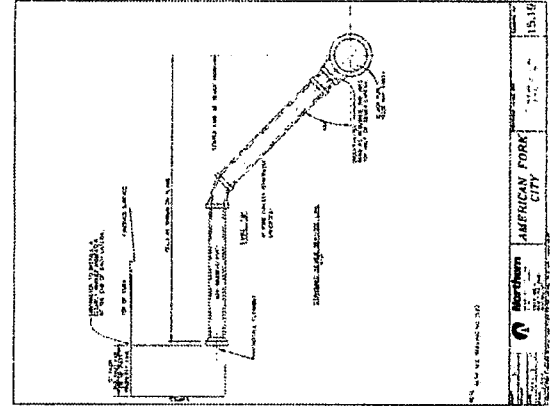
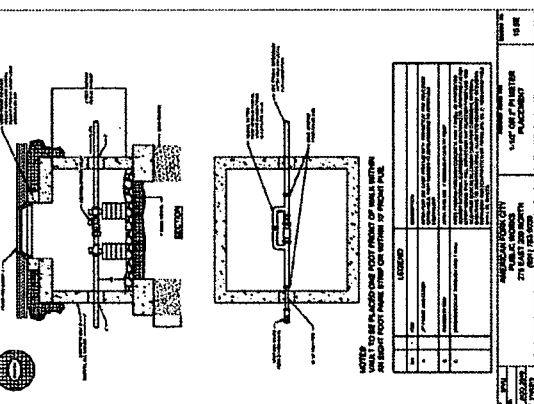
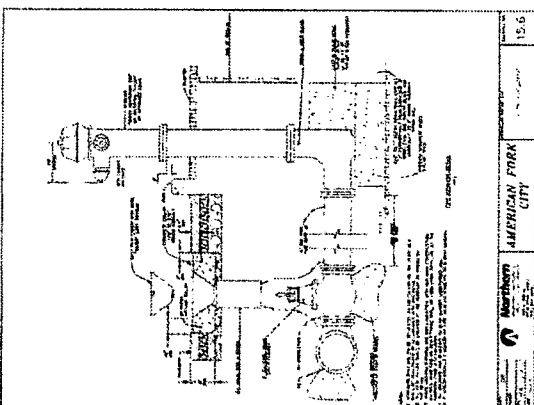
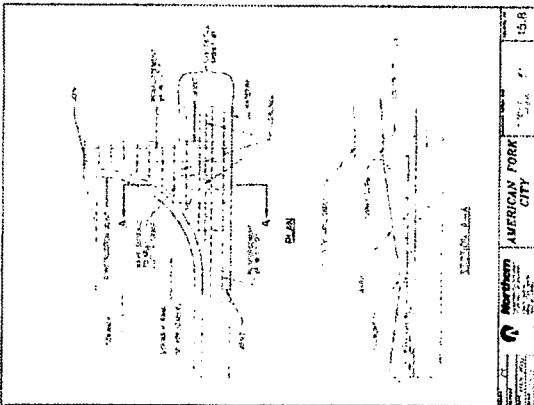
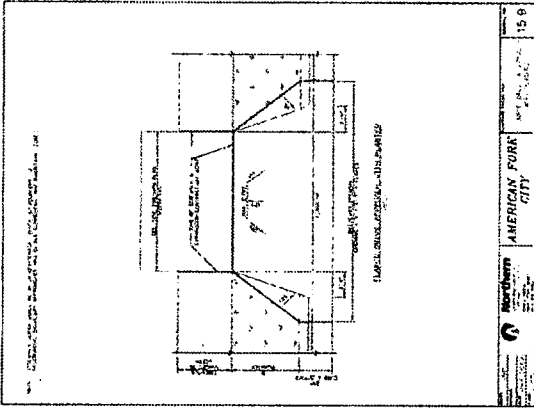


DATE: 11/15/21
SCALE: AS SHOWN

DETAILS SHEET

DATE	11/15/21
SCALE	AS SHOWN
PROJECT	THE VILLAS AT ROCKWELL RANCH
CITY	AMERICAN FORK, UT
NO.	C-502

C-502





SALT LAKE CITY
45 W. 1000 S. Suite 500
Salt Lake, UT 84103
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THE VILLAS AT ROCKWELL RANCH
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960 WEST 420 SOUTH
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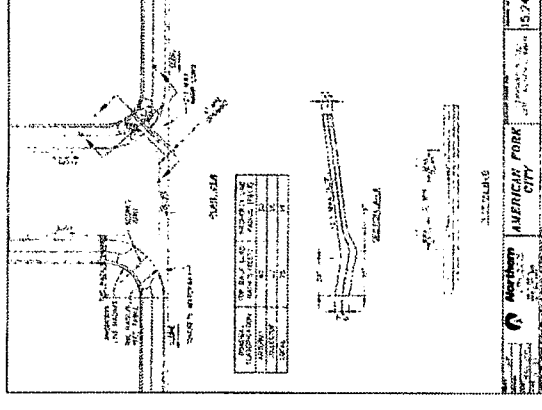
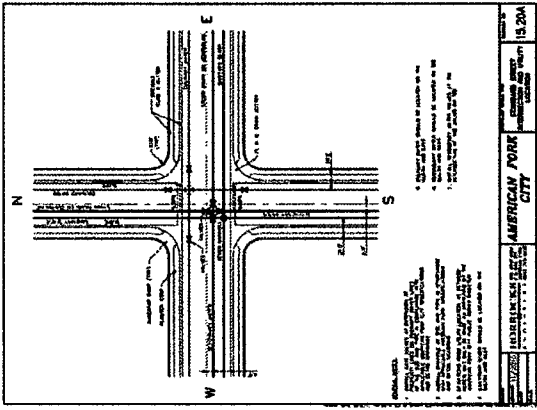
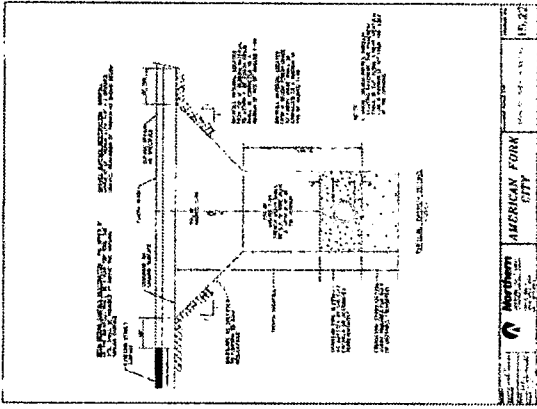
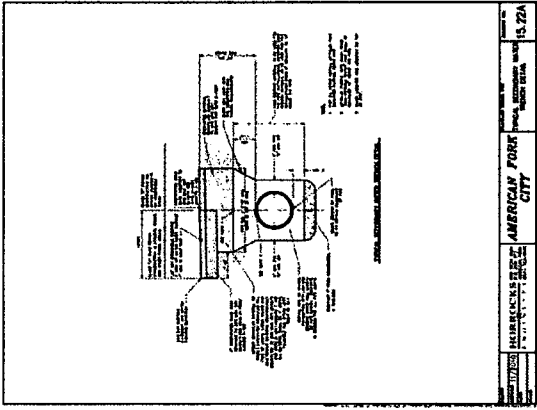
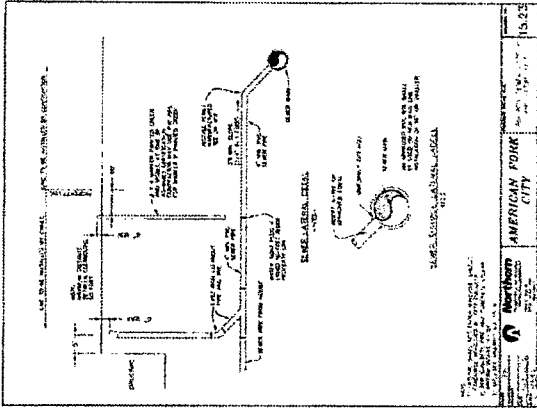


SCALE: AS SHOWN

DETAILS SHEET

PROJECT NO. 144383
SHEET NO. 31 OF 61

C-503



APPENDIX B – SOPs

Pavement Maintenance Operations

General:

These SOPs are not expected to cover all necessary procedure actions. Operators are allowed to adapt SOPs to unique site conditions in good judgment when it is necessary for safety, and the proper, and effective containment of pollutants. However, any changes of routine operations must be amended in these SOPs.

1. Purpose and Selection:

- a) Reduce stormwater pollution by sweeping and removing pollutants that will be carried to City stormwater systems during stormwater runoff or by non stormwater runoff.
- b) The sweeper is intended for removing material that collect on pavements by use and the natural degradation of pavements, ie. material that collect, drop from vehicles and the natural erosion and breaking up of pavements.

2. Regular Procedure:

- a) Remain aware of debris and sweep minor debris as needed by hand.
- b) Generally sweeping machinery should be used during autumn when leaf fall is heavy and early spring after winter thaw. Sometimes sweeping machinery will be necessary when accumulations are spread over a large area of the pavement.
- c) HOA roadways, driveways, and other hardscape areas will be swept.
- d) Manage outside activities that leave waste or drain pollutants to our pavements. This involves outside functions including but not limited to: Yard sales, yard storage, fund raisers, etc. Do not allow car wash fund raiser or other activities that allow detergents or other pollutants to be wash into storm drain systems.

4. Disposal Procedure:

- a) Service contractor dispose at licensed facilities
- b) Dispose of hand collected material in dumpster

5. Training:

- a) Annually and at hire

Landscape Maintenance Operations

General:

This SOP is not expected to cover all necessary procedure actions. Operators are allowed to adapt SOPs to unique site conditions in good judgment when it is necessary for safety, and the proper, and effective containment of pollutants. However, any changes of routine operations must be amended in this SOP.

Rule: Prevent any solids, liquids or any light weight material from being carried away from the construction or maintenance envelop by wind or water.

1. Application:

- a) This SOP should provide sufficient direction for many of the general landscaping operations, e.g., fertilizer and pesticide applications, mowing, weeding, tree trimming, digging, sprinkler repairs, varying landscape cover management, etc.

2. Maintenance Procedure:

- a) Grooming
 - Lawn Mowing – Immediately following operation sweep or blow clippings onto vegetated ground.
 - Fertilizer Operation – Prevent overspray. Sweep or blow fertilizer onto vegetated ground immediately following operation.
 - Pesticide Operations – Prevent overspray, use spot treatment, sweep or blow dry pesticide onto vegetated ground immediately following operation.
- b) Remove or contain all erodible or loose material prior forecast wind and precipitation events, before any non-stormwater will pass through and over the project site and at end of work period. Light weight debris and landscape materials can require immediately attention when wind expected.
- c) Landscape project materials and waste can usually be contained or controlled by operational best management practices.
 - Operational; including but not limited to:
 - Strategic staging of materials eliminating exposure, such as not staging on pavement
 - Avoiding multiple day staging of landscaping backfill and spoil on pavements
 - Haul off spoil as generated or daily
 - Scheduling work when weather forecast are clear.
- d) Cleanup:
 - Use dry cleanup methods, e.g. square nose shovel and broom and it is usually sufficient when no more material can be swept onto the square nosed shovel.
 - Power blowing tools

3. Waste Disposal:

- a) Dispose of waste according to General Waste Management SOP, unless superseded by specific SOPs for the operation.

4. Equipment:

- a) Tools sufficient for proper containment of pollutants and cleanup.
- b) Push broom and square blade shovel should be a minimum.

5. Training:

- a) Annually and at hire
- b) Landscape Service Contractors must have equal or better SOPs.

Waste Management Operations

General:

This SOP is not expected to cover all necessary procedure actions. Operators are allowed to adapt SOPs to unique site conditions in good judgment when it is necessary for safety, and the proper, and effective containment of pollutants. However, any changes of routine operations must be amended in this SOP.

1. Application:

- a) This SOP is intended for all Staff, intended for the proper disposal of common everyday waste.

2. Waste Collection.

- a) Regularly inspect and look for garbage, trash, and debris on-site including the detention pond and grounds. Collect and properly dispose of it.
- b) At winter time, inspection and collection will be done at fall during winterization and at spring time when the first cut occurs. The rest of the time it will be done weekly at same time as the cutting.

3. Waste Collection Devices (Exposed units):

- a) The site contains 2 types of waste management containers.
 - 6yd dumpster with lid
 - Receptacles with lids

4. Waste Disposal Restrictions for all waste Scheduled for the Intermountain Regional Landfill:

- a) Generally most waste generated at this property, and waste from spill and clean up operations can be disposed in our dumpsters under the conditions listed in this SOP. Unless other disposal requirements are specifically identified by the product SDS or otherwise specified in other SOPs.
- b) Know the facility disposal requirements and restrictions. It should not be assumed that all waste disposed in collection devices will be disposed at the Intermountain Regional Landfill.
- c) Review Intermountain Regional Landfill regulations for additional restrictions and understand what waste is prohibited in the Intermountain Regional Landfill. Ensure the SDS and Intermountain Regional Landfill regulations are not contradictory.

Generally the waste prohibited by the Intermountain Regional Landfill is:

- Liquid:
 - paint
 - pesticides/fertilizers

- oil (all types)
- antifreeze
- batteries
- liquid chemicals
- etc.

(Generally, all the above hazardous waste when involved in minor spill cleanup operations can be disposed in covered dumpsters and our waste bays, if the liquid is contained in absorbent material, e.g. sand, dirt, loose absorbent, pads, booms etc., and transformed or dried such that it will not drip. This is not intended for whole sale disposal of out dated or spent liquid hazardous waste. When disposal of out dated or spent liquid is needed or for questions of how to dispose of other waste, contact the Utah County Health Department for instructions and locations, (801-851-7331).

5. Waste Disposal Required for Intermountain Regional Landfill or other:

- a) Generally for waste not accepted by the Intermountain Regional Landfill.
- b) Follow SDS for disposal requirements. Review Intermountain Regional Landfill regulations for additional restrictions and understand what waste is prohibited in the Intermountain Regional Landfill. Ensure the SDS and Intermountain Regional Landfill regulations are not contradictory
General rules are:
 - Get approval prior to delivery.
 - Transport waste in secure leak proof containers that are clearly labeled.
- c) Lookup and follow disposal procedures for disposal of waste at other EPA approved sites, the Intermountain Regional Landfill # is a good resource, (801) 930-0984

6. General Staff Maintenance Practices:

- a) Prevent dumpsters and receptacles from becoming a pollution source by:
 1. Closing lids
 2. Reposition tipped receptacles upright.
 3. Report full or leaking and unsecured dumpsters and receptacles to the company provider or repair it in house. Determine source liquids and prevent it.
 4. Report any eminent pollutant hazard related to dumpsters and receptacles to the owner.

6. Training:

- a) Annually and at hire

Storm Drain Maintenance Operations

General:

These SOPs are not expected to cover all necessary procedure actions. Operators are allowed to adapt SOPs to unique site conditions in good judgment when it is necessary for safety, and the proper, and effective containment of pollutants. However, any changes of routine operations must be amended in these SOPs.

1. Procedure:

- a) Inspect for need:
 1. Schedule cleaning for boxes and pipe that contain 2” or more of sediment and debris.
 2. Remove debris by vacuum Intermountain Regional Landfill operated machinery.
 3. When accumulations are mostly floating debris this material can be removed with a net.
 4. Inspect standing water for mosquito larvae and contact Utah County Health Department – Mosquito Abatement when necessary.
 5. Inspect at time of winterization.

2. Disposal Procedure:

- a) Dispose of waste collected by machinery at regulated facilities.
- b) Floating materials and floating absorbent materials may be disposed in dumpster when dried out. Dry dirt and slurry may also be disposed in the dumpster.
- c) Disposal of hazardous waste
 1. Dispose of hazardous waste at regulated disposal facilities, see Waste Management and Spill Control SOP
- d) Disposal of waste collected from storm drain device at regulated facilities.
 1. UniStorm Stormwater Treatment System is installed with this development and the recommended maintenance practice for the UniStorm System is to plan on quarterly inspections and an annual pump-out. See *Appendix C* for manufacturer’s recommendations.

3. Training:

- a) Annually and at hire

Pavement Washing Operations

General:

These SOPs are not expected to cover all necessary procedure actions. Operators are allowed to adapt SOPs to unique site conditions in good judgment when it is necessary for safety, and the proper, and effective containment of pollutants. However, any changes of routine operations must be amended in these SOPs.

1. Procedure:

- a) Prevent waste fluids and any detergents if used from entering storm drain system. The following methods are acceptable for this operation.
 - Dam the inlet using a boom material that seals itself to the pavement and pick up the wastewater with shop-vacuum or absorbent materials.
 - Collect wastewater with shop-vacuum simultaneous with the washing operation.
 - Collect wastewater with vacuum truck or trailer simultaneous with the washing operation.
- b) This procedure must not used to clean the initial spills. First apply the Spill Containment and cleanup SOP.

2. Disposal Procedure:

- a) Small volumes can usually be drained to the local sanitary sewer. Contact the Timpanogos Special Service District.
- b) Large volumes must be disposed at regulated facilities.

2. Pavement Cleaning Frequency:

- a) There is no regular pavement washing regimen. Pavement washing is determined by conditions that warrant it, including but not limited to: prevention of slick or other hazardous conditions or restore acceptable appearance of pavements.

3. Training:

- a) Annually and at hire

Snow and Ice Removal Management

General:

This SOP is not expected to cover all necessary procedure actions. Operators are allowed to adapt SOPs to unique site conditions in good judgment when it is necessary for safety, and the proper, and effective containment of pollutants. However, any changes of routine operations must be amended in this SOP.

1. Application:

- a) Parking and sidewalk winter management operations.

2. De-Icing Procedure:

- a) Do not store or allow salt or equivalent to be stored on outside paved surfaces. Storage of salt or other de-icing agents will be the responsibility of the snow and ice service contractor.
- b) Minimize salt use by varying salt amounts relative to hazard potential.
- c) Sweep excessive piles left by the spreader.
- d) Store snow in designated snow storage easements per TOD code. See *Appendix A – Site drawings and details* for location of snow storage easements.
- e) Watch forecast and adjust salt amounts when warm ups are expected the same day.

3. Training:

- a) Annually and at hire.
- b) Require snow and ice service contractors to follow the stronger this SOP and their company SOPs.

General Construction Maintenance

General:

This SOP is not expected to cover all necessary procedure actions. Operators are allowed to adapt SOPs to unique site conditions in good judgment when it is necessary for safety, and the proper, and effective containment of pollutants. However, any changes of routine operations must be amended in this SOP.

Rule: Prevent any solids, *liquids or any light weight material from being carried away from the construction or maintenance envelop by wind or water.

***liquids - including culinary water and irrigation water that are polluted with material that will damage the environment.**

1. Application:

- a) This SOP should provide sufficient direction for many of the general operations, e.g., building maintenance, curb/sidewalk/flatwork, overlay/patching, landscape renovations, misc. maintenance/repairs, etc.

2. Construction Procedure:

- a) Remove or contain all erodible or loose material prior forecast wind and precipitation events or before non-stormwater will pass through the project site. For light weight debris maintenance can require immediately attention for wind events and many times daily maintenance or as needed for precipitation or non-stormwater events.
- b) Project materials and waste can be contained or controlled by operational or structural best management practices.
 - Operational; including but not limited to:
 - Strategic staging of materials eliminating exposure, such as not staging on pavement
 - Avoiding multiple day staging of backfill and spoil
 - Haul off spoil as generated or daily
 - Schedule work during clear forecast
 - Structural; including but not limited to:
 - Inlet protection, e.g. wattles, filter fabric, drop inlet bags, boards, planks
 - Gutter dams, e.g. wattles, sandbags, dirt dams
 - Boundary containment, e.g. wattles, silt fence
 - Dust control, e.g. water hose,
 - Waste control, e.g. construction solid or liquid waste containment, dumpster, receptacles

- c) Inspect often to insure the structural best management practices are in good operating condition and at least prior to the workday end. Promptly repair damaged best management practices achieving effective containment.
- d) Cleanup:
 - Use dry cleanup methods, e.g. square nose shove and broom.
 - Wet methods are allowed if wastewater is prevented from entering the stormwater system, e.g. wet/dry vacuum, disposal to our landscaped areas.
- e) Cleanup Standard:
 - When a broom and a square nosed shovel cannot pick any appreciable amount of material.

3. Waste Disposal:

- a) Dispose of waste according to General Waste Management SOP, unless superseded by specific SOPs for the operation.
- b) Never discharge waste material to storm drains

4. Equipment:

- a) Tools sufficient for proper containment of pollutants and cleanup.
- b) Push broom and square blade shovel should be a minimum.

5. Training:

- b) Annually and at hire.

Spill Control

General:

This SOP is not expected to cover all necessary procedure actions. Operators are allowed to adapt SOPs to unique site conditions in good judgment when it is necessary for safety, and the proper, and effective containment of pollutants. However, any changes of routine operations must be amended in this SOP.

1. Rational:

- a) All properties are susceptible to spills whether it is a result of operations or by customers. Insufficient response, inadequate containment materials and improper spill cleanup methods will result in pollutants in our waterways. Once the pollutants reach our storm drain system, or even the detention pond, they are difficult and expensive to remove.

2. Containment Procedure:

- a) Priority is to dam and contain flowing spills.
- b) Use spill kits booms if available or use any material available; including but not limited to, nearby sand, dirt, landscaping materials, etc.
- c) Hazardous or unknown waste material spills
 1. Critical Emergency constitutes large quantities of flowing uncontained liquid that will affect areas with people or reach storm drain systems. Generally burst or tipped tanks. Call HAZMAT, Department of Water Quality, Utah County Health Department, and American Fork City.
 2. Minor Emergency constitutes a spill that has reached a storm drain but is no longer flowing. Call Utah County Health Department, American Fork City
 3. Spills that are contained on the surface and do not meet the criteria for Critical and minor emergencies may be managed by the responsible implementation of this SOP.
 4. Contact Numbers:
HAZMAT - 911
Department of Water Quality – 801-231-1769, 801-536-4123
Utah County Health Department – (801) 851-7000
American Fork City – (801) 763-3000

3. Cleanup Procedure:

- a) NEVER WASH SPILLS TO THE STORM DRAIN SYSTEMS.
- b) Clean per SDS requirements but generally most spills can be cleaned up according to the following:
 - Absorb liquid spills with spill kit absorbent material, sand or dirt until liquid is sufficiently converted to solid material.

- Remove immediately using dry cleanup methods, e.g. broom and shovel, or vacuum operations.
- Cleanup with water and detergents may also be necessary depending on the spilled material. However, the waste from this operation must be vacuumed or effectively picked up by dry methods. See Pavement Washing SOP.
- Repeat process when residue material remains.

4. DISPOSAL:

- a) Follow SDS requirements but usually most spills can be disposed per the following b. & c.
- b) Generally most spills absorbed into solid forms can be disposed to the dumpster and receptacles. Follow Waste Management SOP.
- c) Generally Liquid waste from surface cleansing processes may be disposed to the sanitary sewer system after the following conditions have been met:
 - Dry cleanup methods have been used to remove the bulk of the spill and disposed per the Waste Management SOP.
 - The liquid waste amounts are small and diluted with water. This is intended for spill cleanup waste only and never for the disposal of unused or spent liquids.

5. Documentation:

- a) Document all spills in Appendix C.

6. SDS sheets:

- a) SDS Manual is filed in break room.

7. Materials:

- a) Generally sand or dirt will work for most clean up operations and for containment. However, it is the responsibility of the owner to select the absorbent materials and cleanup methods that are required by the SDS Manuals for chemicals used by the company.

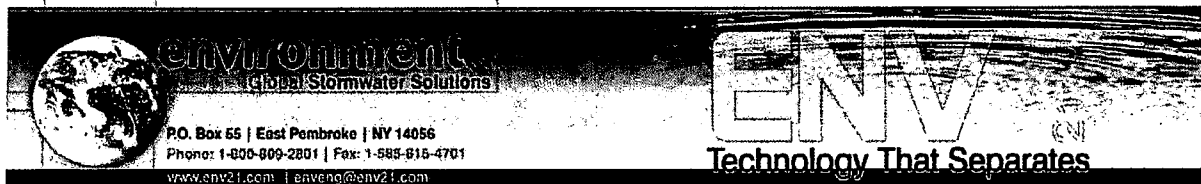
8. Training:

- a) Annually and at hire.

APPENDIX C – UNISTORM SYSTEM OPERATION AND MAINTENANCE MANUAL



UNISTORM OPERATION AND MAINTENANCE MANUAL



UNISTORM SYSTEM MAINTENANCE

1.0 UNISTORM DESCRIPTION

- 1.1 The UniStorm is a precast concrete structure. It is available in different configurations (e.g., with an at grade inlet grate, flow control, etc.) and with different attachments (e.g., flow control vanes, flow diffusers, etc.).
- 1.2 The UniStorm System consists of stages of treatment separated by a precast concrete baffle walls. The baffle walls are designed to meet site-specific flow requirements and provide four functions:
 - (a) Removes floatables and sediment in the inlet stage
 - (b) Provides a low head loss flow path between the first and second stages
 - (c) Provides for additional sediment removal in the second stage.
 - (d) Provides flow control either with vanes mounted on the upstream side of the baffle wall or through diversion baffles.
- 1.3 The UniStorm Systems are manufactured from standard precast concrete components. These components are designed to reduce the weight that needs to be handled during shipment and installation.
- 1.4 Normal water depth in the UniStorm System structure sump will be 3-6 ft dependent on the project requirements. This shallow sump reduces excavation costs and the depth to be accessed from a standard vacuum truck (13' lift).
- 1.5 Cast iron access frames vented covers, or hatches are provided in the UniStorm System roof to make the sediment pile readily accessible for measurement and cleaning in each stage of the structure.
- 1.6 Standing water tends to be an attraction for mosquitoes to use as a breeding ground, therefore Environment 21, LLC recommends using solid covers with gaskets or bio-safe mosquito tablets or a combination of both.



2.0 POLLUTANT STORAGE CAPACITY AND CLEANOUT FREQUENCY

- 2.1 The recommended maintenance practice for the UniStorm System is to plan on quarterly inspections and an annual pump-out based on the following general design guidelines:
- 2.1.1 Sediment Sump -- the rate at which sediment is accumulated will depend on land use and other pavement activities (e.g., heavy winter sanding will create extra sediment, while regular sweeping will reduce accumulation). The UniStorm System structure sump is designed to store an average sediment pile depth of up to 1.0 ft. Environment 21 recommends that the sediment should be removed when the first-stage sediment pile depth is 6"-12"
 - 2.1.2 Floatables Chambers -- oil sheen and floating debris will be retained in the inlet stage of the UniStorm System. Annual accumulation of floatables is estimated at less than 0.50 inches but can vary depending on land use.
 - 2.1.3 During the first one to two years of operation, Environment 21 recommends visual inspections in January, April, July, and October. This inspection schedule may be modified in subsequent years according to experience or to meet specific stormwater permit requirements.
 - 2.1.4 Refer to the Environment 21 system specific design package for the estimated maintenance interval or call 1-800-809-2801.

3.0 SAFETY

- 3.1 Safety is a priority and the following are recommended guidelines while performing maintenance on UniStorm Systems. These guidelines are not all-inclusive and by no means are they meant to usurp any safety program already in place for the individuals performing the maintenance on the UniStorm System.
- 3.1.1 The UniStorm System is a confined space structure but entry into it is not required and is not recommended by



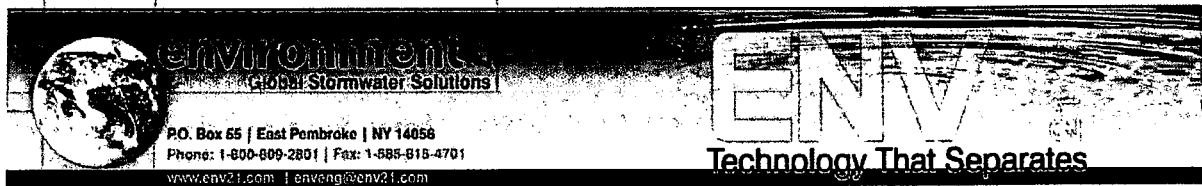
Environment 21, LLC. The design of the UniStorm System is such that all of the maintenance may be completed without entry. In the remote chance that entry into the UniStorm System structure is required only trained, qualified workers with the proper Personal Protective Equipment (PPE) should perform the entry.

3.1.2 The UniStorm System has cast iron access frames with covers which provide access to all stages of the UniStorm system. The openings are normally at ground level so the work area should be staged properly with safeguards to prevent anyone or anything from inadvertently falling through an opening in the UniStorm System structure. The access openings provided are usually sized at 24" or 30", dependent on the diameter of the structure, and conform to ASTM C478 specifications.

3.1.3 After maintenance has been completed on the UniStorm System, the area should be cleared of slip and trip hazards and the cast iron covers set securely in place.

4.0 FLOATABLES OBSERVATION AND MEASUREMENT

- 4.1 Maintain an inventory all tools and equipment used for completion of this procedure.
- 4.2 Obtain a flood light and a measuring rod (increments in inches marked on the rod). The measuring rod must be of a length that will reach the floor of the UniStorm System structure and still extend a minimum of 2' above the cast iron access frame. The rod should not bend.
- 4.3 Set up the work area using proper safety procedures, equipment (e.g., barricades) and PPE as required.
- 4.4 Carefully remove the cast iron covers using proper lifting and rigging equipment; set the covers off to the side in a safe area and safe configuration (e.g., not suspended).
- 4.5 Illuminate the water surface in the inlet stage of the UniStorm System with the flood light.



- 4.6 Gently stir the floatables to estimate the depth. Obtain a sample of the floatables, water, or sediment, if required, for waste disposal. The depth of the oil sheen and floating debris will typically be less than one inch and can be skimmed from the surface prior to the pump-out of the sediment. Organic debris that has become waterlogged and settled to the floor is expected to be present in relatively small quantities that will be removed during the pump out of the mineral sediment.
- 4.7 Inspect all surfaces, which can be seen, of the UniStorm System structure for wear (e.g., cracking, spalling, etc.). Report signs of degradation to the proper authorities (i.e., owner, municipality, etc.).
- 4.8 Repeat steps 4.6 and 4.7 for any other stages of the UniStorm System.

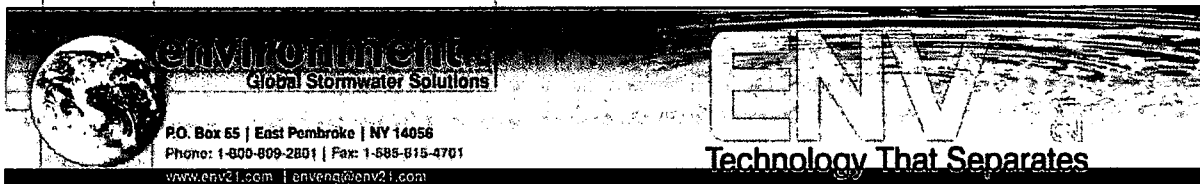
5.0 SEDIMENT PILE DEPTH MEASUREMENT

- 5.1 Complete section 4.0 of this procedure prior this section.
- 5.2 Lower the measuring rod (from step 4.2) into the inlet stage of the UniStorm System structure until a slight resistance to movement occurs; the rod is now at the top of the sediment pile. Obtain a sight measurement by sighting the rod measuring increments to a point on the cover frame.
- 5.3 Twist the measuring rod into the sediment pile until the measuring rod is on the floor (verify the expected level using project submittal drawings). Obtain a sight measurement by sighting the rod increments to the same point on the access frame as was used in step 5.2. Subtract the smaller number from the larger number as obtained in this step and step 5.2. For example, if the measurement in step 5.2 is 8' 0" and the measurement in step 5.3 is 8' 3" subtract the 8' 0" from the 8' 3". The resultant 3" is the sediment depth of the UniStorm Manhole.
- 5.4 Repeat steps 5.2 and 5.3 for any other stages of the UniStorm System.
- 5.5 If pump-out of the UniStorm System is required and will occur immediately go to Section 6.0 of this procedure; if not go to Section 7.0 of this procedure.



6.0 PUMP-OUT OF THE UNISTORM SYSTEM

- 6.1 Contact the following for approval and notification of the intent to pump out the UniStorm System:
 - 6.1.1 Owner
 - 6.1.1.1 Obtain permission from the Owner to pump out the contents of the UniStorm System.
 - 6.1.2 Waste Disposal Facility
 - 6.1.2.1 Facilities used by the local Highway Department may be acceptable, while, for industrial sites, the pumper truck contents should be delivered to a disposal site approved by the owner of the industrial site and disposed of in accordance with local requirements for disposal of pollutants.
 - 6.1.2.2 Obtain permission to deliver the waste to the facility.
 - 6.1.3 Government Agencies
 - 6.1.3.1 Obtain permission, as required, from local, State and Federal Agencies.
- 6.2 Obtain a standard truck-mounted sewer and catch basin cleaner with positive displacement rotary lobe vacuum pumps or other acceptable pump-out equipment.
- 6.3 If the area was secured after the inspection and Section 7.0 was performed complete steps 4.2 and 4.3 of this procedure.
- 6.4 Using the truck-mounted sewer and catch basin cleaner, suction the floatables and hydrocarbons from the inlet stage. Segregate this waste from the sediment and water as required by the local regulations and the waste facility.
- 6.5 Using the truck-mounted sewer and catch basin cleaner, suction the standing water and sediment from the inlet stage. Segregate this waste from the hydrocarbons and floatables as required by the local regulations and the waste facility.



- 6.6 Using the water supply from the vacuum truck wash down the interior surface of the UniStorm system and suction any waste and water from the bottom of the structure.
- 6.7 Repeat steps 6.4 through 6.6 for any other stages of the UniStorm System.
- 6.8 Using a flood light inspect all surfaces, which can be seen, of the UniStorm System structure for wear (e.g., cracking, spalling, etc.). Report signs of degradation to the proper authorities (i.e., owner, municipality, etc.).
- 6.9 Refill the UniStorm System, with clean water, to the inlet/outlet pipe invert elevation.
- 6.10 Properly dispose of the waste removed from UniStorm System as pre-arranged

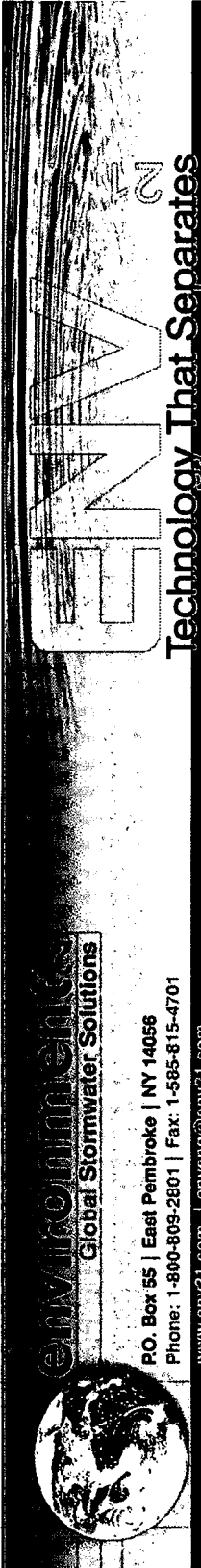
7.0 SECURING THE AREA

- 7.1 Verify that no personnel, tools or equipment are in the UniStorm System structure.
- 7.2 Inspect the cast iron access frames and covers for damage (e.g., cracks, excessive wear, etc.).
- 7.3 Clear the cast iron access frames of any extraneous material and carefully replace the cast iron covers using proper lifting and rigging equipment. Verify that the covers are properly seated.
- 7.4 Remove the site set-up (tools, equipment, etc.) and verify the work area has been returned to its pre-work condition.
- 7.5 Complete an inventory of all tools and equipment used for this work, accounting for lost, damaged, or stolen tools or equipment.



8.0 RECORD KEEPING

- 8.1 Maintenance is a very important aspect in keeping the UniStorm System performance up to par. The attached "UNISTORM SYSTEM MAINTENANCE DATA SHEET" is provided and should be used to document the maintenance performed on the UniStorm System.
- 8.2 Provide a copy of the "UNISTORM SYSTEM MAINTENANCE DATA SHEET" to the owner, required government agencies, and Environment 21, LLC (P.O. Box 55, East Pembroke, NY 14056-1055).



Environmental Solutions
Global Stormwater Solutions

PO. Box 55 | East Pembroke | NY 14056
Phone: 1-800-809-2801 | Fax: 1-585-815-4701
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UNISTORM SYSTEM MAINTENANCE DATA SHEET

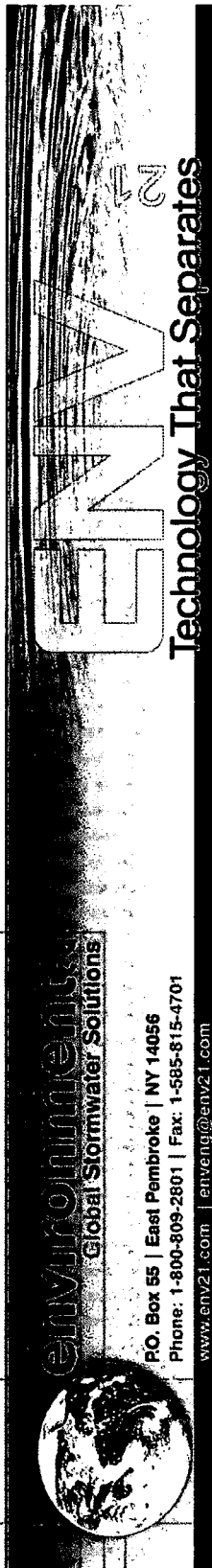
STRUCTURE NO.: _____ LOCATION: _____
 OWNER: _____ UNISTORM MODEL _____

DATE INSTALLED: _____ MUNICIPALITY: _____

DATE	SEDIMENT PILE DEPTH	OIL SHEEN YES/NO	FLOATABLE DEPTH	PUMPOUT REQ. YES/NO	SAMPLED YES/NO	SAMPLE RESULTS

PUMPOUT DATA (IF APPLICABLE)

DATE	SEDIMENT VOLUME REMOVED	FLOATABLES VOLUME REMOVED	SEDIMENT/FLOATABLE DISPOSAL INFORMATION:	
			WHERE DISPOSED	HOW DISPOSED



PRIOR TO START OF WORK

- OWNER NOTIFIED AS REQUIRED.
- GOVERNMENT AGENCIES NOTIFIED AS REQUIRED.
- DISPOSAL SITE CONTACTED (IF PUMPOUT IS REQUIRED.)
- ALL REQUIRED PPE, TOOLS, AND EQUIPMENT ARE AVAILABLE AND IN GOOD WORKING ORDER.

AFTER WORK COMPLETION

- ANY SIGNS OF WEAR NOTED AND REPORTED IF NECESSARY
- UNISTORM SYSTEM HAS BEEN FILLED WITH CLEAN WATER
- ALL CAST IRON COVERS HAVE BEEN PROPERLY REPLACED.
- NO HAZARDOUS CONDITIONS EXIST AS A RESULT OF THE MAINTENANCE WORK.
- ALL PPE, TOOLS, AND EQUIPMENT HAVE BEEN INVENTORIED AND REMOVED FROM THE SITE.
- THE WORK AREA HAS BEEN RETURNED TO A SAFE PRE-WORK CONDITION.
- ALL NOTIFICATIONS HAVE BEEN MADE, AS REQUIRED, THAT THE WORK IS COMPLETED.

DATE: _____ SIGNATURE: _____

Exhibit C

Approved as to form:
Attorney for American Fork City

APPENDIX D – PLAN RECORDKEEPING DOCUMENTS

Exhibit D

Facility Operation and Maintenance Inspection Report for Storm Drain Facilities

Inspector Name:		Subdivision Name:			
Inspection Date:		Address:			
Frequency of inspection		<input type="checkbox"/> Weekly		<input type="checkbox"/> Monthly	
		<input type="checkbox"/> Quarterly		<input type="checkbox"/> Annual	
Item Inspected	Checked		Maintenance		Observations and Remarks
	Yes	No	Req'd	Not Req'd	
Pond Facilities					
1	Landscaping maintenance				
2	Remove sedimentation				
3	Remove debris				
4	Repair side slopes				
5	Repair rip-rap protection				
6	Repair control structure				
7	Cleaning of outfall				
8	Removal of floatable debris				
9	Maintenance of inlets				
10	Maintenance of outlets				
Storm drain system					
1	Remove sediment from catch basins				
2	Cleaning storm drain pipes				
3	Maintenance of drainage swales				
4	Remove sediment from manholes				
5	Remove sediment from sumps				
6	Repair oil/ water separator				
7	Repair sand filters				
Parking lot and roads maintenance					
1	Sweeping of parking lot				
2	Sweeping of streets				
3	Cleaning of garbage enclosure				
4	Cleaning of non-hazardous spills				
5	Managing fertilizer use				
6	Managing pesticide use				
7	Removal of grass after lawn mowing				

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 ensure 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 provided 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.

BY: Date:
 Site Inspector

Approved as to form:
 Attorney for American Fork City