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**DECLARATION OF COVENANTS AND AGREEMENT  
FOR MAINTENANCE OF STORMWATER FACILITIES**

This Declaration and Agreement (the “Agreement”) is made by and between Northfield Hotel Properties LLC, a Delaware limited liability company, 527 Professional Dr., Ste. 100, Northfield, MN 55057 (the “Owner” or “Responsible Party”), and the City of Northfield, a Minnesota municipal corporation (the “City”); (collectively the “parties”).

**RECITALS:**

WHEREAS, the Owner is the fee owner of certain real property located in the City of Northfield, Rice County, Minnesota, legally described as follows:

See Exhibit A attached hereto and incorporated herein by reference (the “Property”); and

WHEREAS, the City Development Review Committee (“DRC”) approved a site plan for improvements for a hotel project (the “project”) upon the Property; and

WHEREAS, the City and the Owner have entered into a Development Agreement, dated May 17, 2016, for the project on the Property (the “Development Agreement”); and

WHEREAS, all construction and site improvements for the project must be in conformance with the approved Development Agreement and site plan (the “Site Plan”) and in conformance with City Code; and

WHEREAS, the Owner plans to install, operate, repair and maintain an underground storm water infiltration system (the “Facilities”) on the Property designed by Lightowler Johnson Associates, Inc. in accordance with the requirements of the Development Agreement and City Code, Chapter 22, Division 2, Stormwater Management; and

WHEREAS, the Owner shall install, operate, repair and maintain the Facilities pursuant to City Code and in accordance with those approved plans and specifications, including but not

limited to the following plans, attached hereto as Exhibits and incorporated herein by reference, hereinafter collectively referred to as the “specifications”:

Exhibit B	Site Plan (C400)
Exhibit C	Utility Plan (C500)
Exhibit D	Grading, Drainage & Erosion Plan (C600)
Exhibit E	Stormwater Pollution Prevention Plan (C800-C803)
Exhibit F	Utility Details (C900-C901)
Exhibit G	Stormwater Management Plan (C700)
Exhibit H	Stormtech DC-780 Chamber Systems and Inspection Guide (the “Guide C902-C904”); and

WHEREAS, in order to provide stormwater management and control, to meet the City’s stormwater permitting requirements, and to promote the water quality and volume control to the City’s stormwater system and water bodies, including but not limited to the Cannon River, the Owner and the City agree that it is reasonable for the City to require the Owner and all subsequent owners of the Property to inspect, operate, repair, maintain and replace, at the Owner’s cost and expense, the Facilities on a regular basis to ensure that the Facilities function as intended in compliance with the specifications, applicable law, stormwater permitting requirements, and this Agreement; and

WHEREAS, pursuant to City Code, the Owner and the City desire to set forth, in this recordable instrument, their agreement to establish covenants and declarations upon the Property for the installation of and ongoing operation, repair, maintenance and replacement of the Facilities on the Property by the Owner and the Owner’s successors and assigns at the Owner’s and the Owner’s successors’ and assigns’ cost and expense.

NOW, THEREFORE, in consideration of the foregoing facts and circumstances, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. Installation, Construction and Maintenance.

- a. Construction and Installation Requirements. The Owner shall construct and install the Facilities in accordance with the Development Agreement, the approved specifications and this Agreement, at the Owner’s sole cost and expense.
- b. Maintenance Obligation. The Owner shall operate, maintain, repair and replace, when necessary, the Facilities in accordance with the specifications, this Agreement, and applicable law and City Code, as amended, at the Owner’s sole cost and expense.
- c. Snow and Leaves Removal and Prohibited Storage. The Owner shall sweep clean the private streets, driveways, parking area and walkways on the Property in April or May and October or November each year to remove from the Property all sand

and salt deposited on the private streets, driveways, parking area and walkways. The Owner shall also remove all tree leaves from the Property after they fall to the ground in October or November each year.

- d. Personal Property or Debris Storage Prohibited. The Owner shall not deposit or store any personal property or debris, litter, or other objects within the Facilities or in any manner that will otherwise interfere with the proper operation and maintenance of the Facilities, and the Owner shall keep the Facilities free of any debris, leaves, litter, or other objects.
- e. Maintenance Costs. The Owner shall incur and pay all costs associated with operating, maintaining, repairing and replacing the Facilities on the Property.

## 2. Inspections.

- a. Annual Inspections. The Facilities shall be inspected annually by a Qualified Person, in accordance with the Guide, selected by the Owner to determine whether or not the same are functioning in accordance with the specifications, this Agreement, and applicable law and City Code, as amended. As used in this Agreement, the term “Qualified Person” shall mean a professional engineer licensed by the State of Minnesota, or a person approved by the City Engineer based on training and experience. The Owner’s responsibilities under this Section shall be at the Owner’s sole cost and expense. If, as a result of the inspection, the Facilities or any portion thereof are determined not to be functioning in accordance with the specifications, this Agreement, and applicable law and City Code, as amended, the Owner shall restore/repair/replace, as necessary and required by the City Engineer, the Facilities to function as specified herein. Upon request from the Owner, the City Engineer may establish an inspection schedule permitting such inspections to be performed less frequently than annually, but the City Engineer may reinstate the annual inspection schedule at any time by notice to the Owner in the City Engineer’s sole judgment and discretion.
- b. City Notification of Inspection. The City shall be notified at least 48 hours prior to the annual inspections or any repair, maintenance or replacement of the Facilities and, at the sole cost of the City, a representative of the City may observe any inspection, repair, maintenance or replacement.
- c. City Right of Entry and Independent Inspection. Pursuant to City Code, Section 22-306, which is incorporated herein by reference as amended, the City shall have right of entry onto the Property to inspect the Facilities at any time, but the City shall use reasonable efforts to notify the Owner of its intent to enter the Property to inspect. The City shall have the right to enter the Property when the City has a reasonable basis to believe that a violation of the specifications, this Agreement, or applicable law and City Code, as amended, is occurring or has occurred and to enter upon the Property when necessary, in the City Engineer’s sole judgment and discretion, for abatement of a public nuisance or correction and enforcement of a

violation of City Code or this Agreement. The City shall not be subject to or liable for any claims of trespass by the Owner in exercising its rights under this Agreement.

- d. Inspection and Maintenance Report. The Owner shall submit a report to the City, no later than two (2) weeks after any annual inspection or maintenance of the Facilities, providing the following information:
  - i. Date and time of inspection;
  - ii. Log of findings;
  - iii. Date and time of maintenance; and
  - iv. Log of maintenance performed.

### 3. Remediation and Waiver of Rights.

- a. Remediation Plan. If the City Engineer determines that the Facilities do not conform to the specifications, this Agreement, or applicable law and City Code, as amended, the City Engineer shall notify the Owner of the deficiency in writing. The Owner shall submit a proposed remediation plan and schedule to the City Engineer within thirty (30) days after receipt of such notice from the City. If the proposed remediation plan and schedule are not acceptable to the City Engineer, the City Engineer shall notify the Owner of the deficiency, and the Owner shall submit a revised plan to the City Engineer within fourteen (14) days after receipt of such notice. If the City Engineer approves the proposed remediation plan and schedule, the Owner shall perform the remediation in compliance therewith at the Owner's sole cost and expense.
- b. Failure to Repair. If the Owner fails to submit a proposed remediation plan and schedule to the City Engineer as prescribed above, or fails to implement a City Engineer approved remediation plan to bring the Facilities into compliance with the specifications, this Agreement, or applicable law and City Code, as amended, then at the sole cost and expense of the Owner, the City shall have the right, but no obligation, to prepare a remediation plan for the Facilities, enter upon the Property and complete all work necessary to correct the Facilities so as to bring the Facilities into compliance.
- c. Reimbursement to the City. The Owner shall reimburse the City within thirty (30) days after receipt of an invoice from the City for any and all costs incurred by the City in connection with preparing a remediation plan for the Facilities and all work completed by the City to bring the Facilities back into compliance.
- d. Waiver of Rights and Certification. If the Owner does not timely reimburse the City, the City may recover its costs by levying a special assessment against the Property certifying the same to the Rice County Auditor for collection in the same manner as property taxes upon the Property. The Owner, on behalf of itself and its successors and assigns, hereby acknowledges the benefit of such

inspection/maintenance/repair/replacement of the Facilities to the Property and hereby expressly waives any rights to hearings, notice of hearings, objections or appeal relating to the levying of any City assessments, the right to contest the City levied assessments under Minnesota Statutes § 429.081 or the certification of such levied assessments to the Rice County Auditor for collection with property taxes upon the Property.

- e. Right of Entry. The City shall have the right to enter the Property to implement the terms of this Paragraph 3 and enforce City Code, including but not limited to Chapter 22. The City shall not be subject to or liable for any claims of trespass by the Owner. City Code, Section 22-308 is incorporated herein by reference, as amended.
4. Standards for Performance. Any act of construction, installation, operation, maintenance, repair or replacement to be performed under this Agreement shall be performed in a good and workmanlike manner pursuant to sound engineering practices and in compliance with all applicable governmental requirements, City Code and the specifications.
5. Amendment, Release or Termination. Notwithstanding anything herein to the contrary, no amendment, release or termination of any of the provisions of this Agreement shall be effective or may be filed of record unless the City consents to the amendment, release or termination. Such consent must be evidenced by a resolution duly approved by the City Council, or successor body. The Owner, on behalf of itself and its successors and assigns, expressly acknowledges and agrees that the City has no obligation whatsoever to approve or act upon any proposed amendment, release or termination, and may withhold or delay consent for any reason or no reason whatsoever, or may condition consent upon such terms as the City deems desirable, it being the City's absolute right and prerogative to insist that the terms of this Agreement remain in effect and unaltered and to permit amendment, release or termination only at such times and under such circumstances, if any, as the City deems desirable in the exercise of its sole judgment and discretion. The Owner, on behalf of itself and its successors and assigns, further agrees and covenants, consistent with this acknowledgment, not to institute any legal proceedings against the City on the grounds that the City failed to respond appropriately to a proposed amendment, release or termination, and to indemnify the City against any expense, including litigation costs, which the City incurs as a result of any violation by that party of this covenant. The City may, at any time, give up the right to approval granted hereunder, said action to be evidenced by City Council resolution. Notwithstanding anything herein to the contrary, the Property shall not be deemed dedicated to the public or otherwise public land. The City shall have no obligation and no right, other than as provided in this Agreement or under the ordinances, statutes and other laws under which the City operates, to maintain or administer Property.
6. Duration. This Agreement shall constitute a covenant running with the land and shall be binding upon and inure to the benefit of the parties, and any and all of their successors and assigns.

7. Authority. The Owner covenants with the City that they are the fee owners of the Property as described above and have good right to create the covenants contained herein.
8. Attorney's Fees. If any action at law or in equity shall be brought by the City on account of any breach of this Agreement by the Owner, the City shall be entitled to recover from the Owner reasonable attorney's fees, the amount of which shall be fixed by the Court and shall be made a part of any judgment or decree rendered.
9. General Terms.
  - a. RECITALS. The recitals to this Agreement are made a part hereof and incorporated herein by reference.
  - b. VOLUNTARY AND KNOWING ACTION. The parties, by executing this Agreement, state that they have carefully read this Agreement and understand fully the contents thereof; that in executing this Agreement they voluntarily accept all terms described in this Agreement without duress, coercion, undue influence, or otherwise, and that they intend to be legally bound thereby.
  - c. AUTHORIZED SIGNATORIES. The parties each represent and warrant to the other that (1) the persons signing this Agreement are authorized signatories for the entities represented, and (2) no further approvals, actions or ratifications are needed for the full enforceability of this Agreement against it; each party indemnifies and holds the other harmless against any breach of the foregoing representation and warranty.
  - d. NOTICES. All communications, demands, notices, or objections permitted or required to be given or served under this Agreement shall be in writing and shall be deemed to have been duly given or served if delivered in person to the other party or its authorized agent or if deposited in the United States mail, postage prepaid, for mailing by certified or registered mail, and addressed to the other party to this Agreement, to the address set forth in this Agreement, or if to a party not a party to this Agreement, to the address designated by a party to this Agreement in the foregoing manner. Any party may change its address by giving notice in writing, stating its new address, to any other party as provided in the foregoing manner. Commencing on the 10th day after the giving of such notice, such newly designated address shall be such address for the purpose of all communications, demands, notices, or objections permitted or required to be given or served under this Agreement.
  - e. NOT PARTNERSHIP, JOINT VENTURE, OR FIDUCIARY RELATIONSHIP CREATED HEREBY. Nothing contained in this Agreement shall be interpreted as creating a partnership, joint venture, or relationship of principal and agent between the City and the Owner.
  - f. CUMULATIVE RIGHTS. Except as otherwise expressly stated herein, no right or remedy herein conferred on or reserved to the City is intended to be exclusive

of any other right or remedy hereby provided by law, but each shall be cumulative in, and in addition to, every other right or remedy given herein or hereafter existing at law, in equity, or by statute.

- g. COMPLIANCE WITH LAWS. Owner shall abide by all Federal, State and local laws, statutes, ordinances, rules and regulations now in effect or hereinafter adopted pertaining to this Agreement or to the Facilities, improvements, personal property, programs and staff for which the Owner is responsible.
- h. GOVERNING LAW. This Agreement shall be deemed to have been made and accepted in Rice County, Minnesota, and the laws of the State of Minnesota shall govern any interpretations or constructions of the Agreement without regard to its choice of law or conflict of laws principles.
- i. DATA PRACTICES. The parties acknowledge that this Agreement is subject to the requirements of Minnesota's Government Data Practices Act, Minnesota Statutes, Section 13.01 et seq.
- j. NO WAIVER. Any party's failure in any one or more instances to insist upon strict performance of any of the terms and conditions of this Agreement or to exercise any right herein conferred shall not be construed as a waiver or relinquishment of that right or of that party's right to assert or rely upon the terms and conditions of this Agreement. Any express waiver of a term of this Agreement shall not be binding and effective unless made in writing and properly executed by the waiving party.
- k. SEVERABILITY. The invalidity or unenforceability of any provision of this Agreement shall not affect the validity or enforceability of any other provision. Any invalid or unenforceable provision shall be deemed severed from this Agreement to the extent of its invalidity or unenforceability, and this Agreement shall be construed and enforced as if the Agreement did not contain that particular provision to the extent of its invalidity or unenforceability.
- l. HEADINGS AND CAPTIONS. Headings and captions contained in this Agreement are for convenience only and are not intended to alter any of the provisions of this Agreement and shall not be used for the interpretation of the validity of the Agreement or any provision hereof.
- m. SURVIVABILITY. All covenants, indemnities, guarantees, releases, representations and warranties by any party or parties, and any undischarged obligations of City and Owner arising prior to the expiration of this Agreement (whether by completion or earlier termination), shall survive such expiration.
- n. RECORDING. This Agreement shall bind the heirs, executors, administrators, assigns and successors of the parties. This Agreement shall be recorded by the City at the expense of the Owner within 30 days of full execution hereof.

IN WITNESS WHEREOF, the parties hereto have hereunto executed this document on the latest date affixed to the signatures hereto.

**NORTHFIELD HOTEL PROPERTIES LLC**

By: *Brett D. Reese*  
Brett D. Reese, Its *MANAGING DIRECTOR*

Date: *6-13-18*

COUNTY OF *Rice* )  
 ) ss.  
STATE OF MINNESOTA )



The foregoing instrument was acknowledged before me, a notary public in and for the above named County and State, on *June 13*, 2018, by Brett D. Reese, its *Managing Director* on behalf of Northfield Hotel Properties LLC, a limited liability company under the laws of the State of Delaware, Owner.

*Margaret Mary Jacobson*  
Notary Public

**CITY OF NORTHFIELD**

By: \_\_\_\_\_  
Rhonda Pownell, Its Mayor

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Deb Little, Its City Clerk

Date: \_\_\_\_\_

COUNTY OF RICE            )  
  ) ss.  
STATE OF MINNESOTA    )

The foregoing instrument was acknowledged before me, a notary public in and for the above named County and State, on \_\_\_\_\_, 2018, by Rhonda Pownell and Deb Little, respectively the Mayor and City Clerk, on behalf of the City of Northfield, a municipal corporation under the laws of the State of Minnesota.

\_\_\_\_\_  
Notary Public

THIS INSTRUMENT WAS DRAFTED BY:

FLAHERTY & HOOD, P.A.  
525 Park Street, Suite 470  
St. Paul, MN 55103-2122  
651-225-8840

**EXHIBIT A**

**Legal Description of Property**

Lot 6, Block 1, THE CROSSING OF NORTHFIELD, according to the recorded plat thereof, Rice County, Minnesota.



**EXHIBIT B**

**Site Plan (C400)**



**EXHIBIT C**

**Utility Plan (C500)**



**EXHIBIT D**

**Grading, Drainage & Erosion Plan (C600)**

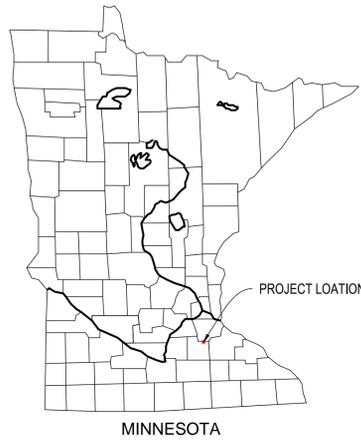


**EXHIBIT E**

**Stormwater Pollution Prevention Plan**

# STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

**FAIRFIELD INN & SUITES**  
CITY OF NORTHFIELD  
RICE COUNTY, MINNESOTA



## LEGEND

PROJECT BOUNDARY

PROJECT AREAS:  
TOTAL PROJECT SIZE (DISTURBED AREA) = 1.41 ACRES  
EXISTING AREA OF IMPERVIOUS SURFACE = 0.23 ACRES  
POST CONSTRUCTION AREA OF IMPERVIOUS SURFACE = 0.92 ACRES  
TOTAL NEW IMPERVIOUS SURFACE AREA CREATED = 0.69 ACRES

PLANNED CONSTRUCTION START DATE: 5/1/17  
ESTIMATED CONSTRUCTION COMPLETION DATE: 5/1/18

PERMANENT STORMWATER MANAGEMENT SYSTEM:  
TYPE OF STORM WATER MANAGEMENT USED IF MORE THAN 1 ACRE OF NEW IMPERVIOUS SURFACE IS CREATED:

<input type="checkbox"/>	WET SEDIMENTATION BASIN
<input checked="" type="checkbox"/>	INFILTRATION/FILTRATION
<input type="checkbox"/>	REGIONAL POND
<input type="checkbox"/>	PERMANENT STORM WATER MANAGEMENT NOT REQUIRED

## PROJECT LOCATION:

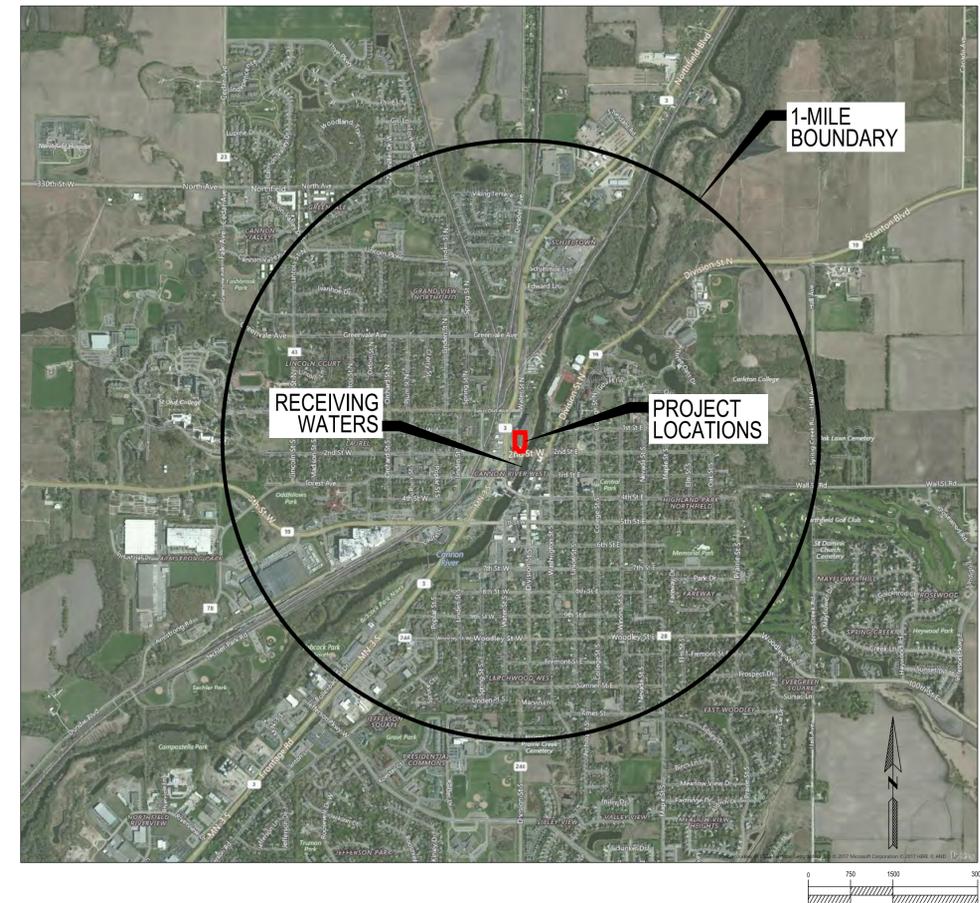
COUNTY	TOWNSHIP	RANGE	SECTION	LATITUDE	LONGITUDE
RICE	112	20	36	44.459135	-93.160595

BMP SUMMARY	QUANTITY	UNIT
ROCK CONSTRUCTION ENTRANCE / VEHICLE TRACKING PAD	1	EACH
STANDARD INLET PROTECTION	13	EACH
SILT FENCE	900	LF
EROSION CONTROL BLANKET	1,690	SY
CONCRETE WASHOUT	1	EACH
BIO-ROLL / SEDIMENT CONTROL WATTLE	700	LF
DEWATERING BAG	1	EACH
FLOATING SILT / TURBIDITY CURTAIN	100	LF

DESCRIPTION OF CONSTRUCTION ACTIVITIES AND STORMWATER MANAGEMENT:  
CONSTRUCTION ACTIVITIES INCLUDE: 80-UNIT, 4 STORY HOTEL FACILITY CONSTRUCTED ON TOP OF A CONCRETE UNDERGROUND PARKING STRUCTURE / PLAZA AREA, WITH TEMPORARY EROSION AND SEDIMENT CONTROL, INSTALLED UNDERGROUND STORMWATER INFILTRATION STORAGE CHAMBERS, WATER QUALITY TREATMENT DEVICE, AND PERMANENT STABILIZATION.

DOCUMENT RETENTION  
THE FOLLOWING DOCUMENTATION WILL BE RETAINED FOR A PERIOD OF NOT LESS THAN 3-YEARS FROM THE DATE OF SUBMITTAL OF THE NOT IN COMPLIANCE WITH PART III.E OF THE PERMIT.

- THE FINAL SWPPP
- COPIES OF ALL STORMWATER RELATED PERMITS REQUIRED FOR THE PROJECT
- RECORDS OF ALL INSPECTION AND MAINTENANCE CONDUCTED DURING CONSTRUCTION
- COPIES OF ALL PERMANENT OPERATION AND MAINTENANCE AGREEMENTS; INCLUDING ALL RIGHT-OF-WAY, CONTRACTS, COVENANTS AND OTHER BINDING REQUIREMENTS REGARDING PERPETUAL MAINTENANCE, AND
- ALL REQUIRED CALCULATIONS FOR DESIGN OF THE TEMPORARY AND PERMANENT BMPs.



RECEIVING WATERS:  
RECEIVING WATERS, INCLUDING SURFACE WATER, WETLANDS, PUBLIC WATERS, AND STORMWATER PONDS, ARE IDENTIFIED ON THE USGS 7.5 MIN QUAD MAP WITHIN ONE MILE OF THE PROJECT BOUNDARY. RECEIVING WATERS THAT ARE IMPAIRED, THE IMPAIRMENT, AND WLA ARE LISTED AS FOLLOWS. ALL SPECIFIC BMPs RELATIVE TO CONSTRUCTION ACTIVITIES LISTED IN THIS PERMIT FOR SPECIAL AND IMPAIRED WATERS HAVE BEEN INCORPORATED INTO THIS PLAN. ALL SPECIFIC BMPs LISTED IN APPROVED TMDLS AND THOSE BMPs LISTED FOR CONSTRUCTION RELATED WASTE LOAD ALLOCATIONS HAVE ALSO BEEN INCORPORATED.

NAME OF WATER BODY	TYPE (ditch, pond, wetland, lake, etc.)	Appendix A Special Water?	Flows to Impaired Water Within 1 Mile?	USEPA Approved TMDL?
CANNON RIVER	RIVER	YES	YES	YES

CANNON RIVER IMPAIRMENTS: FECAL COLIFORM, TURBIDITY & MERCURY

- IMPLEMENTATION SCHEDULE AND PHASING:
- SUBMIT SWPPP UPDATES TO ENGINEER. SUBMITTAL SHALL INCLUDE ANY REQUESTED CHANGES TO THE SWPPP, INCLUDING BUT NOT LIMITED TO: TRAINED PERSONNEL, LOCATIONS FOR STOCKPILES, CONCRETE WASHOUT, SANITATION FACILITIES, TYPES AND LOCATIONS OF EROSION & SEDIMENT CONTROL. FAILURE TO SUBMIT UPDATES SHALL BE CONSIDERED ACCEPTANCE OF THE SWPPP AS DESIGNED WITH NO CHANGES.
  - INSTALL PERIMETER SEDIMENT CONTROL, INLET PROTECTION, AND CONSTRUCTION EXIT.
  - PERFORM PROJECT REMOVALS.
  - INSTALL NEW & REPLACEMENT UNDERGROUND UTILITIES (i.e. STORM, SANITARY, WATER, etc.)
  - CONSTRUCT PAVEMENT & HARDSCAPE SECTIONS.
  - ADD ADDITIONAL TEMPORARY BMPs AS NECESSARY DURING CONSTRUCTION BASED ON INSPECTION REPORTS.
  - PERFORM TURF RESTORATION.
  - REMOVE INLET PROTECTION AND EROSION CONTROL.
  - ENSURE FINAL STABILIZATION MEASURES ARE COMPLETE.
  - SUBMIT NOTICE OF TERMINATION (NOT) TO MPCA WITHIN 30 DAYS OF FINAL STABILIZATION.

RESPONSIBLE PARTIES:  
THE CONTRACTOR AND OWNER MUST APPLY FOR COVERAGE UNDER THE MPCA'S GENERAL STORM WATER PERMIT FOR CONSTRUCTION ACTIVITY AS REQUIRED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PHASE II PROGRAM. COVERAGE UNDER THE PERMIT WILL BEGIN AUTOMATICALLY 7 CALENDAR DAYS AFTER THE ELECTRONIC SUBMITTAL DATE OR AFTER THE POSTMARKED DATE OF A COMPLETE APPLICATION. [LONGER TIME FRAMES APPLY TO SITES THAT DISTURB AREAS GREATER THAN 50 ACRES.]

THE CONTRACTOR SHALL PROVIDE ONE OR MORE TRAINED CONSTRUCTION SWPPP MANAGER(S) KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPs THAT WILL OVERSEE THE IMPLEMENTATION OF THE SWPPP, AND THE INSTALLATION, INSPECTION AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPs. A CONSTRUCTION SWPPP MANAGER MUST BE AVAILABLE FOR AN ON-SITE INSPECTION WITHIN 72 HOURS UPON REQUEST BY THE MPCA.

	COMPANY	CONTACT PERSON	PHONE
OWNER:	REBOUND HOSPITALITY, INC.	SCOTT KOESTER	612-240-8705
SWPPP DESIGNER:	LJA	TROY TOOZ, P.E.	701-293-1350
CONTRACTOR:	LEXSTAR CONSTRUCTION, LLC	JAMES POTRATZ	605-310-1141
CONSTRUCTION SWPPP MANAGER:	HESELTON CONSTRUCTION MGMT.	DEAN SAMMON	507-696-7345
PARTY RESPONSIBLE FOR LONG TERM O&M:	REBOUND HOSPITALITY, INC.	SCOTT KOESTER	612-240-8705

THE SWPPP DESIGNER AND CONSTRUCTION SWPPP MANAGER MUST HAVE APPROPRIATE TRAINING. THE CONTRACTOR SHALL ATTACH TRAINING DOCUMENTATION TO THIS SWPPP FOR THE CONSTRUCTION SWPPP MANAGER PRIOR TO THE START OF CONSTRUCTION. THIS INFORMATION SHALL BE KEPT UP TO DATE UNTIL THE PROJECT NOT IS FILED.

## SPECIAL ENVIRONMENTAL CONSIDERATIONS:

1)	WAS AN ENVIRONMENTAL REVIEW REQUIRED FOR THIS PROJECT OR ANY PART OF A COMMON PLAN OF DEVELOPMENT OR SALE THAT INCLUDES ALL OR ANY PORTION OF THIS PROJECT?	NO
2)	DOES ANY PORTION OF THE SITE HAVE THE POTENTIAL TO AFFECT THREATENED OR ENDANGERED SPECIES OR THEIR CRITICAL HABITAT?	NO
3)	DOES ANY PORTION OF THIS SITE DISCHARGE TO A CALCAREOUS FEN.	NO
4)	WILL ANY PORTION OF THE SITE POTENTIALLY AFFECT PROPERTIES LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES OR A KNOWN OR DISCOVERED ARCHEOLOGICAL SITE?	NO
5)	HAVE ANY KARST FEATURES HAVE BEEN IDENTIFIED IN THE PROJECT VICINITY?	NO
6)	IS COMPLIANCE WITH TEMPORARY OR PERMANENT STORMWATER MANAGEMENT DESIGN REQUIREMENTS INFEASIBLE FOR THIS PROJECT?	NO
7)	HAS THE MN DNR PROMULGATED "WORK IN WATER RESTRICTIONS" FOR ANY PUBLIC WATER THIS SITE DISCHARGES TO DURING FISH SPAWNING?	YES

GENERAL STORMWATER DISCHARGE REQUIREMENTS  
ALL REQUIREMENTS LISTED IN PART III OF THE PERMIT FOR THE DESIGN OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM AND DISCHARGE HAVE BEEN INCLUDED IN THE PREPARATION OF THIS SWPPP. THESE INCLUDE BUT ARE NOT LIMITED TO:

- THE EXPECTED AMOUNT, FREQUENCY, INTENSITY, AND DURATION OF PRECIPITATION.
- THE NATURE OF STORMWATER RUNOFF AND RUN-ON AT THE SITE
- PEAK FLOW RATES AND STORMWATER VOLUMES TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNEL AND STREAM BANK EROSION.
- THE RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT ON THE SITE.

INFORMATION CONTAINED IN THIS SWPPP NARRATIVE SHEET SUMMARIZES REQUIREMENTS OF THE GENERAL PERMIT AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM PROGRAM - PERMIT NO. MN RL0000L AS THEY APPLY TO THIS PROJECT. ALL PROVISIONS OF THE PERMIT INCLUDING THOSE NOT SPECIFICALLY CITED HEREIN SHALL APPLY TO THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE TO BE FAMILIAR WITH AND COMPLY WITH ALL CONDITIONS OF THE PERMIT. THE FULL TEXT OF THE PERMIT IS AVAILABLE AT: [HTTP://WWW.PCA.STATE.MN.US/INDEX.PHP/WATER/WATER-TYPES-AND-PROGRAMS/STORMWATER/CONSTRUCTION-STORMWATER/MPCA-TO-RE-ISSUE-CONSTRUCTION-STORMWATER-GENERAL-PERMIT.HTML](http://www.pca.state.mn.us/index.php/water/water-types-and-programs/stormwater/construction-stormwater/mpca-to-re-issue-construction-stormwater-general-permit.html).

#### SWPPP AMENDMENTS

PERMITTEE MUST AMEND SWPPP AS NECESSARY TO INCLUDE ADDITIONAL REQUIREMENTS TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS THE FOLLOWING SITUATIONS.

1. THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER OR SEASONAL CONDITIONS.
2. INSPECTIONS OR INVESTIGATIONS BY SITE OWNER OR OPERATORS, USEPA OR MPCA OFFICIALS DETERMINE THE SWPPP IS NOT MINIMIZING DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR UNDERGROUND WATERS OR DISCHARGES ARE CAUSING WATER QUALITY STANDARD EXCEEDANCES.
3. THE SWPPP IS NOT ACHIEVING THE OBJECTIVES OF MINIMIZING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY, OR THE SWPPP IS NOT CONSISTENT WITH THE TERMS AND CONDITIONS OF THE PERMIT.
4. THE MPCA DETERMINES THAT THE PROJECT'S STORMWATER DISCHARGES MAY CAUSE, HAVE REASONABLE POTENTIAL TO CAUSE, OR CONTRIBUTE TO NON-ATTAINMENT OF ANY APPLICABLE WATER QUALITY STANDARD, OR THE SWPPP DOES NOT INCORPORATE THE APPLICABLE REQUIREMENTS OF THE PERMIT.

#### EROSION PREVENTION PRACTICES:

THE LOCATION OF AREAS NOT TO BE DISTURBED MUST BE DELINEATED ON THE PROJECT BEFORE SITE WORK BEGINS.

DISTURBANCE ON STEEP SLOPES (>33.3%) SHALL BE MINIMIZED. WHERE REQUIRED, TECHNIQUES SUCH AS PHASING AND STABILIZING PRACTICES DESIGNED FOR STEEP SLOPES SHALL BE USED.

ALL EXPOSED SOILS MUST BE STABILIZED AS SOON AS POSSIBLE BUT IN NO CASE LATER THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED.

FOR PUBLIC WATERS THAT HAVE BEEN PROMULGATED "WORK IN WATER RESTRICTIONS" DURING FISH SPAWNING TIME FRAMES, ALL EXPOSED SOIL AREAS THAT ARE WITHIN 200 FEET OF THE WATER'S EDGE, AND DRAIN TO THESE WATERS MUST COMPLETE STABILIZATION WITHIN 24-HOURS DURING THE TIME PERIOD.

STORMWATER CONVEYANCE CHANNELS SHALL BE ROUTED AROUND UNSTABILIZED AREAS. EROSION CONTROLS AND VELOCITY DISSIPATION DEVICES SHALL BE USED AT OUTLETS WITHIN AND ALONG THE LENGTH OF ANY CONSTRUCTED CONVEYANCE CHANNEL.

THE NORMAL WETTED PERIMETER OF ALL DITCHES OR SWALES, INCLUDING STORM WATER MANAGEMENT POND SLOPES, THAT DRAIN WATERS FROM THE SITE MUST BE STABILIZED WITHIN 200' OF ANY PROPERTY EDGE OR DISCHARGE POINT, INCLUDING STORM SEWER INLETS, WITHIN 24 HOURS OF CONNECTION.

STABILIZATION OF THE REMAINING PORTIONS OF ANY TEMPORARY OR PERMANENT DITCHES OR SWALES WITH 7 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE AND CONSTRUCTION IN THAT PORTION OF THE DITCH HAS TEMPORARY OR PERMANENTLY CEASED.

TEMPORARY OR PERMANENT DITCHES OR SWALES USED AS SEDIMENT CONTAINMENT DURING CONSTRUCTION DO NOT NEED TO BE STABILIZED DURING TEMPORARY PERIOD OF USE AND SHALL BE STABILIZED WITHIN 24 HOURS AFTER NO LONGER USED AS SEDIMENT CONTAINMENT.

MULCH, HYDROMULCH, TACKIFIER, OR SIMILAR PRACTICE SHALL NOT BE USED IN ANY PORTION OF A TEMPORARY OR PERMANENT DRAINAGE DITCH. REFER TO EROSION AND SEDIMENT CONTROL PLAN FOR TEMPORARY AND PERMANENT STABILIZATION MEASURES FOR DITCHES AND SWALES.

STORMWATER DISCHARGES SHALL BE DIRECTED TO VEGETATED AREAS WHERE FEASIBLE. VELOCITY DISSIPATION DEVICES SHALL BE USED AT DISCHARGE POINT.

PHASED CONSTRUCTION WILL BE USED TO EXTENT PRACTICAL OR AS INDICATED IN THE PLANS TO MINIMIZE EXPOSED SOILS.

RAPID STABILIZATION SHALL BE OF TYPE AND QUANTITY INDICATED IN THE PROJECT SPECIFICATIONS. ADDITIONAL RAPID STABILIZATION MAY BE NECESSARY TO MINIMIZE EROSION THROUGHOUT THE DURATION OF THE PROJECT. TYPE AND QUANTITY SHALL BE DETERMINED BY THE ENGINEER OR INSPECTOR PRIOR TO INSTALLATION. IN EXTREME CASES, THE CONTRACTOR SHALL USE ANY AVAILABLE RAPID STABILIZATION TO IMMEDIATELY MITIGATE EROSION, THEN FURTHER REMEDY THE SITUATION WITH APPROVAL BY OWNER OR ENGINEER.

#### SEDIMENT CONTROL PRACTICES:

PRACTICES MUST BE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS AND BE LOCATED UP GRADIENT OF ANY BUFFER ZONES. PERIMETER CONTROLS MUST BE IN PLACE BEFORE UP GRADIENT LAND- DISTURBING ACTIVITIES BEGIN AND SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION.

ALL SEDIMENT CONTROLS PRACTICES SHALL BE RE-INSTALLED IF THEY HAVE BEEN ADJUSTED OR REMOVED TO ACCOMMODATE SHORT- TERM ACTIVITIES AND REPLACED IMMEDIATELY AFTER THE SHORT TERM ACTIVITY HAS CEASED. SHORT TERM ACTIVITIES SHALL BE PERFORMED AS QUICKLY AS POSSIBLE. SEDIMENT CONTROL PRACTICES SHALL BE RE-INSTALLED EVEN BEFORE THE NEXT PRECIPITATION EVENT IF THE ACTIVITY IS NOT COMPLETE.

ALL STORM DRAINS MUST BE PROTECTED BY APPROPRIATE B MPS DURING CONSTRUCTION UNTIL ALL SOURCES TO THE INLET HAVE BEEN STABILIZED. INLET PROTECTION MAY BE REMOVED FOR SPECIFIC SAFETY CONCERNS IDENTIFIED BY THE PERMITTEE OR JURISDICTIONAL AUTHORITY. THE REMOVAL SHALL BE DOCUMENTED IN THE SWPPP AND RETAINED ON SITE. TEMPORARY STOCKPILES MUST HAVE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS AND SHALL NOT BE PLACED IN SURFACE WATERS OR NATURAL BUFFERS.

VEHICLE TRACKING B MPS SHALL BE INSTALLED TO MINIMIZE TRACK OUT OF SEDIMENT FROM THE CONSTRUCTION SITE. METHOD SHALL BE APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. STREET SWEEPING SHALL BE USED IF VEHICLE TRACKING B MPS ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE STREET.

SOIL COMPACTION SHALL BE MINIMIZED AND TOPSOIL SHALL BE PRESERVED, ONSITE, UNLESS INFEASIBLE OR IF CONSTRUCTION ACTIVITIES DICTATE SOIL COMPACTION OR TOPSOIL STRIPPING.

#### IMPAIRED WATERS & OTHER SURFACE WATERS:

THE PERMITTEE(S) MUST PRESERVE A 50 FOOT NATURAL BUFFER OR (IF A BUFFER IS INFEASIBLE ON THE SITE) PROVIDE REDUNDANT SEDIMENT CONTROLS WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER. NATURAL BUFFERS ARE NOT REQUIRED ADJACENT TO ROAD DITCHES, JUDICIAL DITCHES, COUNTY DITCHES, STORMWATER CONVEYANCE CHANNELS, STORM DRAIN INLETS, AND SEDIMENT BASINS. THE PERMITTEE(S) IS/ARE NOT REQUIRED TO ENHANCE THE QUALITY OF THE VEGETATION THAT ALREADY EXISTS IN THE BUFFER OR PROVIDE VEGETATION IF NONE EXIST. HOWEVER, PERMITTEE(S) CAN IMPROVE THE NATURAL BUFFER WITH VEGETATION.

#### SPECIAL WATERS:

BUFFER ZONE: THE PERMITTEE(S) SHALL INCLUDE AN UNDISTURBED BUFFER ZONE OF NOT LESS THAN 100 LINEAR FEET FROM THE SPECIAL WATER (NOT INCLUDING TRIBUTARIES) AND THIS BUFFER ZONE SHALL BE MAINTAINED AT ALL TIMES, BOTH DURING CONSTRUCTION AND AS A PERMANENT FEATURE POST CONSTRUCTION, EXCEPT WHERE A WATER CROSSING OR OTHER ENCROACHMENT IS NECESSARY TO COMPLETE THE PROJECT. THE PERMITTEE(S) MUST FULLY DOCUMENT THE CIRCUMSTANCE AND REASONS THAT THE BUFFER ENCROACHMENT IS NECESSARY IN THE SWPPP AND INCLUDE RESTORATION ACTIVITIES. REPLACEMENT OF EXISTING IMPERVIOUS SURFACE WITHIN THE BUFFER IS ALLOWED UNDER THIS PERMIT. ALL POTENTIAL WATER QUALITY, SCENIC AND OTHER ENVIRONMENTAL IMPACTS OF THESE EXCEPTIONS MUST BE MINIMIZED BY THE USE OF ADDITIONAL OR REDUNDANT B MPS AND DOCUMENTED IN THE SWPPP FOR THE PROJECT.

IF POLYMERS, FLOCCULANTS, OR OTHER SEDIMENTATION TREATMENT CHEMICALS ARE USED ON SITE, 1) CONVENTIONAL EROSION AND SEDIMENT CONTROLS SHALL BE SOWED PRIOR TO CHEMICAL PLACEMENT, 2) CHEMICALS SHALL BE CHOSEN BASED ON SOIL TYPES, AND EXPECTED TURBIDITY, PH, AND FLOW RATE OF STORMWATER FLOWING INTO THE TREATMENT SYSTEM, AND 3) CHEMICALS SHALL BE USED WITH ACCEPTED ENGINEERING PRACTICES AND DOSING SPECIFICATIONS.

#### TEMPORARY SEDIMENTATION BASINS:

THE TEMPORARY SEDIMENTATION BASIN SHALL BE CONSTRUCTED AND MADE OPERATIONAL PRIOR TO DISTURBANCE OF 5 OR MORE ACRES DRAINING TO A COMMON LOCATION.

TEMPORARY SEDIMENTATION BASINS ARE REQUIRED PRIOR TO RUNOFF LEAVING THE CONSTRUCTION SITE OR ENTERING SURFACE WATERS WHEN 10 OR MORE ACRES OF DISTURBED SOILS DRAIN TO A COMMON LOCATION. THE BASIN MUST PROVIDE 3,600 CUBIC FEET OF STORAGE BELOW THE OUTLET PER ACRE DRAINED. IF HYDRAULIC CALCULATIONS ARE AVAILABLE, THE TEMPORARY SEDIMENTATION BASIN MUST PROVIDE A STORAGE VOLUME EQUIVALENT TO THE 2-YEAR, 24-HOUR STORM, BUT IN NO CASE LESS THAN 1800 CUBIC FEET PER ACRE DRAINED. THE TEMPORARY SEDIMENTATION BASIN MUST BE CONSTRUCTED AND MADE OPERATIONAL CONCURRENT WITH THE START OF SOIL DISTURBANCE UP GRADIENT OF THE POND. THE TEMPORARY SEDIMENTATION BASIN SHALL BE DESIGNED TO PREVENT SHORT CIRCUITING. THE OUTFALL SHALL BE DESIGNED TO REMOVE FLOATABLE DEBRIS, ALLOW FOR COMPLETE DRAWDOWN OF THE POND FOR MAINTENANCE ACTIVITIES, AND HAVE ENERGY DISSIPATION. THE EMERGENCY SPILLWAY SHALL BE STABILIZED.

TEMPORARY SEDIMENTATION BASINS SHALL BE SITUATED OUTSIDE OF SURFACE WATERS AND ANY REQUIRED BUFFER ZONE, AND MUST BE DESIGNED TO AVOID DRAINING WETLANDS, UNLESS THE IMPACT IS IN COMPLIANCE WITH THE REQUIREMENTS OF THIS PERMIT.

EXCESSIVE SEDIMENT-LADEN WATER THAT IS NOT PROPERLY FILTERED WILL NOT BE PERMITTED TO DISCHARGE FROM SITE.

#### DEWATERING AND BASIN DRAINING

TURBID OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINING SHALL BE DISCHARGED TO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN ON THE PROJECT SITE UNLESS INFEASIBLE. THE TEMPORARY OR PERMANENT BASIN MAY DISCHARGE TO SURFACE WATERS IF THE BASIN WATER HAS BEEN VISUALLY CHECKED TO ENSURE ADEQUATE TREATMENT HAS BEEN OBTAINED IN THE BASIN AND THAT THE NUISANCE CONDITIONS WILL NOT RESULT FROM THE DISCHARGE. DISCHARGE POINTS SHALL BE ADEQUATELY PROTECTED FROM EROSION AND PROPER VELOCITY DISSIPATION PROVIDED.

ALL WATER FROM DEWATERING OR BASIN-DRAINING ACTIVITIES MUST BE DISCHARGED IN A MANNER THAT DOES NOT CAUSE NUISANCE CONDITIONS, EROSION IN THE RECEIVING CHANNELS OR ON DOWN SLOPE PROPERTIES, OR INUNDATION IN WETLANDS CAUSING SIGNIFICANT ADVERSE IMPACTS TO THE WETLAND.

IF FILTERS WITH BACKWASH WATERS ARE USED, THE BACKWASH WATER SHALL BE HAULED AWAY FOR DISPOSAL, RETURNED TO THE BEGINNING OF THE TREATMENT PROCESS, OR INCORPORATED INTO SITE IN A MANNER THAT DOES NOT CAUSE EROSION. BACKWASH WATER MAY BE DISCHARGED TO SANITARY SEWER IF PERMISSION IS GRANTED BY THE SANITARY SEWER AUTHORITY.

#### POLLUTION PREVENTION:

BUILDING PRODUCTS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS MUST BE UNDER COVER TO PREVENT DISCHARGE OR PROTECTED BY AN EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.

PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS MUST BE UNDER COVER.

HAZARDOUS MATERIALS AND TOXIC WASTE MUST BE PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. RESTRICTED ACCESS STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM.

SOLID WASTE MUST BE STORED, COLLECTED AND DISPOSED OF IN COMPLIANCE WITH MINN. R. CH 7035.

PORTABLE TOILETS MUST BE POSITIONED SO THAT THEY ARE SECURE AND WILL NOT BE TIPPED OR KNOCKED OVER. SANITARY WASTE MUST BE DISPOSED OF PROPERLY IN ACCORDANCE WITH MINN. R. CH 7041.

DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED SHALL BE PREVENTED USING DRIP PANS OR ABSORBENTS. SUPPLIES SHALL BE AVAILABLE AT ALL TIMES TO CLEAN UP DISCHARGED MATERIALS AND THAT AN APPROPRIATE DISPOSAL METHOD MUST BE AVAILABLE FOR RECOVERED SPILLED MATERIALS.

EXTERIOR VEHICLE OR EQUIPMENT WASHING ON THE PROJECT SITE SHALL BE LIMITED TO A DEFINED AREA OF THE SITE. RUNOFF FROM THE WASHING AREA SHALL BE CONTAINED IN A SEDIMENT BASIN OR OTHER SIMILARLY EFFECTIVE CONTROLS AND WASTE FROM THE WASHING ACTIVITY MUST BE PROPERLY DISPOSED OF. NO ENGINE DEGREASING IS ALLOWED ON SITE.

EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY CONCRETE AND OTHER WASHOUT OPERATIONS RELATED TO CONSTRUCTION ACTIVITY SHALL BE EFFECTIVELY CONTAINED. LIQUID AND SOLID WASHOUT WASTE SHALL NOT

CONTACT THE GROUND, AND CONTAINMENT MUST BE DESIGNED SO THAT IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR AREAS. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY THAT REQUIRES SITE PERSONNEL TO UTILIZE THE PROPER FACILITIES FOR DISPOSAL OF CONCRETE AND OTHER WASHOUT WASTES.

#### INFESTED WATERS:

MN DNR PERMITS ARE NOT VALID FOR WORK IN WATERS THAT ARE DESIGNATED AS INFESTED WATERS UNLESS ACCOMPANIED BY AND INFESTED WATERS PERMIT OR WRITTEN NOTIFICATION FROM MN DNR THAT AN INFESTED WATERS PERMIT IS NOT REQUIRED. THERE IS NO EXCEPTION FOR PRE-EXISTING PERMITS. IF A MN DNR PERMIT HAS BEEN ISSUED FOR THE PROJECT AND THE WATER IS LATER DESIGNATED AS INFESTED, THE CONTRACTOR SHALL HALT ALL WORK COVERED BY THE MN DNR PERMIT UNTIL AN INFESTED WATER PERMIT OR WRITTEN NOTIFICATION THAT IN INFESTED WATER IS NOT REQUIRED IS OBTAINED

#### INSPECTION & MAINTENANCE:

A TRAINED PERSON SHALL ROUTINELY INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24-HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. FOLLOWING AN INSPECTION THAT OCCURS WITHIN 24-HOURS AFTER A RAINFALL EVENT, THE NEXT INSPECTION MUST BE CONDUCTED WITHIN 7 DAYS.

ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION MUST BE RECORDED WITHIN 24 HOURS IN WRITING AND RECORDS MUST BE RETAINED WITH THE SWPPP. INSPECTION REPORT FORMS ARE AVAILABLE IN THE PROJECT SPECIFICATIONS. INSPECTION REPORT FORMS OTHER THAN THOSE PROVIDED SHALL BE APPROVED BY THE ENGINEER.

WHERE PARTS OF THE PROJECT SITE HAVE PERMANENT COVER, BUT WORK REMAINS ON OTHER PARTS OF THE SITE, INSPECTIONS MAY BE REDUCED ON THESE AREAS TO ONCE PER MONTH.

WHERE THE SITE HAS PERMANENT COVER ON ALL EXPOSED AREAS AND NO CONSTRUCTION ACTIVITY IS OCCURRING ANYWHERE ON SITE, THE SITE MUST BE INSPECTED DURING NON-FROZEN CONDITIONS AT LEAST ONCE PER MONTH FOR 12 MONTHS. FOLLOWING THE 12TH MONTH OF PERMANENT COVER AND NO CONSTRUCTION ACTIVITY, INSPECTIONS SHALL BE TERMINATED UNTIL CONSTRUCTION ACTIVITY RESUMES OR NOTIFICATION FROM MPCA HAS BEEN ISSUED THAT EROSION HAS BEEN DETECTED AT THE SITE.

DURING FROZEN GROUND CONDITIONS, INSPECTIONS MAY BE SUSPENDED AND SHALL RESUME WITHIN 24 HOURS AFTER RUNOFF OCCURS OR 24 HOURS PRIOR TO RESUMING CONSTRUCTION ACTIVITY, WHICHEVER IS FIRST.

INSPECTION AND MAINTENANCE SHALL RESUME UNTIL ANOTHER PERMITTEE HAS OBTAINED COVERAGE UNDER THIS PERMIT OR THE PROJECT HAS UNDERGONE FINAL STABILIZATION, AND AN NOT HAS BEE SUBMITTED.

ALL EROSION PREVENTION AND SEDIMENT CONTROL B MPS SHALL BE INSPECTED TO ENSURE INTEGRITY AND EFFECTIVENESS DURING ALL ROUTINE AND POST-RAINFALL INSPECTIONS. ALL NON-FUNCTIONING B MPS MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL B MPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.

ALL PERIMETER CONTROL DEVICES MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NON-FUNCTIONAL OR THE SEDIMENT REACHES ONE-HALF (1/2) OF THE HEIGHT OF THE DEVICE. THESE REPAIRS MUST BE MADE BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW.

TEMPORARY AND PERMANENT SEDIMENT BASINS MUST BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES ONE-HALF (1/2) THE STORAGE VOLUME. DRAINAGE AND SEDIMENT REMOVAL MUST BE COMPLETED WITHIN 72 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW.

SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EROSION AND SEDIMENT DEPOSITION DURING EACH INSPECTION. ALL DELTAS AND SEDIMENT DEPOSITED IN DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS SHALL BE REMOVED. THE REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN SEVEN (7) DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. THE PERMITTEE IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS PRIOR TO CONDUCTING ANY WORK IN SURFACE WATERS.

CONSTRUCTION SITE VEHICLE EXIT LOCATIONS MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT MUST BE REMOVED FROM ALL PAVED SURFACES BOTH ON AND OFF SITE WITHIN 24-HOURS OF DISCOVERY, OR IF APPLICABLE, WITHIN A SHORTER TIME TO COMPLY WITH THE PERMIT.

STREETS AND OTHER AREAS ADJACENT TO THE PROJECT MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE ACCUMULATIONS OF SEDIMENT. IF SEDIMENT IS PRESENT, IT MUST BE REMOVED IN A MANNER AND AT A SUFFICIENT FREQUENCY TO MINIMIZE OFF-SITE IMPACTS.

ALL INFILTRATION AREAS MUST BE INSPECTED TO ENSURE THAT NO SEDIMENT FROM ONGOING CONSTRUCTION ACTIVITY IS REACHING THE INFILTRATION AREA AND THAT EQUIPMENT IS NOT BEING DRIVEN ACROSS THE INFILTRATION AREA.

#### FINAL STABILIZATION:

FINAL STABILIZATION IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS HAVE BEEN MET:

1. ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND ALL SOILS ARE STABILIZED BY A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OF ITS EXPECTED FINAL GROWTH DENSITY OVER THE ENTIRE PERVIOUS SURFACE AREA, OR OTHER EQUIVALENT MEANS NECESSARY TO PREVENT SOIL FAILURE UNDER EROSION CONDITIONS.
2. PERMANENT STORMWATER MANAGEMENT SYSTEM IS CONSTRUCTED, MEETS ALL REQUIREMENTS OF THE PERMIT, AND IS OPERATING AS DESIGNED. TEMPORARY OR PERMANENT SEDIMENTATION BASINS THAT ARE TO BE USED AS PERMANENT WATER QUALITY MANAGEMENT BASINS HAVE BEEN CLEANED OF ANY ACCUMULATED SEDIMENT. ALL SEDIMENT HAS BEEN REMOVED FROM CONVEYANCE SYSTEMS, AND DITCHES ARE STABILIZED WITH PERMANENT COVER.
3. ALL TEMPORARY SYNTHETIC AND STRUCTURAL EROSION PREVENTION AND SEDIMENT CONTROL B MPS HAVE BEEN REMOVED. B MPS DESIGNED TO DECOMPOSE ON SITE MAY BE LEFT IN PLACE.
4. FOR RESIDENTIAL CONSTRUCTION ONLY, INDIVIDUAL LOTS ARE CONSIDERED FINALLY STABILIZED IF THE STRUCTURE(S) ARE FINISHED, TEMPORARY EROSION PROTECTION AND DOWN GRADIENT PERIMETER CONTROL HAS BEEN COMPLETED AND THE RESIDENCE HAS BEEN SOLD TO THE HOMEOWNER. ALSO, THE "HOMEOWNER FACT SHEET" HAS BEEN PROVIDED TO THE HOMEOWNER.



REVISIONS  
04/14/17 FLOODPROOFING

FAIRFIELD INN & SUITES  
80 UNITS, 4 STORIES  
NORTHFIELD, MINNESOTA

I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION, OR REPORTING INSTRUMENT, WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
TROY M. TOOZ  
DATE: 6-13-18 REGISTRATION NUMBER: 43726

LJA JOB # 16026  
PROJ. DATE: 03-24-16  
FILE NAME: 16026\_C3.2  
DWG. SCALE: NTS  
CHECKED BY: TMT  
DRAWN BY: BW-DM-TK

SHEET DESCRIPTION  
STORMWATER  
POLLUTION  
PREVENTION PLAN  
NOTES

C801

REVISIONS	
04/14/17	FLOODPROOFING
08/21/17	FRANCH. CMTS. (90%)
05/23/18	CIVIL UTILITY CMTS

EROSION CONTROL LEGEND	
	LIMITS OF DISTURBANCE
	SILT FENCE
	TOP OF LANDSCAPE BERM
	PROPOSED DRAINAGE SWALE
	BIOROLLS
	FLOATING SILT / TURBIDITY CURTAIN
	CONCRETE WASHOUT
	STANDARD INLET PROTECTION
	EROSION CONTROL BLANKET
	VEHICLE TRACKING PAD
	PROPOSED DRAINAGE DIRECTION

**NOTES**  
 PLEASE SEE STORMWATER POLLUTION PREVENTION NOTES SHEET C801 FOR MORE FURTHER INFORMATION & RELATED EROSION CONTROL DETAILS.



**FAIRFIELD INN & SUITES**  
 FFE: 910.50  
 UNDERGROUND FE: 895.93

EDGE OF WATER  
 ELEV. = ± 897.6 FT.  
 (LOCATED ON 3/2/2016)

HIGHWAY #3

PRIVATE ROAD

2ND STREET W.

CANNON RIVER

06/13/18 05:05:25PM F:\Projects\16026\Civil\16026\_Plan\Drawings\Sheets\16026\_C3.2.dwg

**FAIRFIELD INN & SUITES**  
**80 UNITS, 4 STORIES**  
**NORTHFIELD, MINNESOTA**

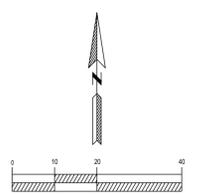
I HEREBY CERTIFY THAT THE PLAN, SPECIFICATION, OR REPORT SUBMITTED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND UNDER THE REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
 TROY M. TOOD  
 DATE: 6-13-18 REGISTRATION NUMBER: 43726

LJA JOB #	16026
PROJ. DATE	03-24-16
FILE NAME	16026_C3.2
DWG. SCALE	1" = 20' @ 24" X 36"
CHECKED BY:	TMT
DRAWN BY:	BW - DM - TK

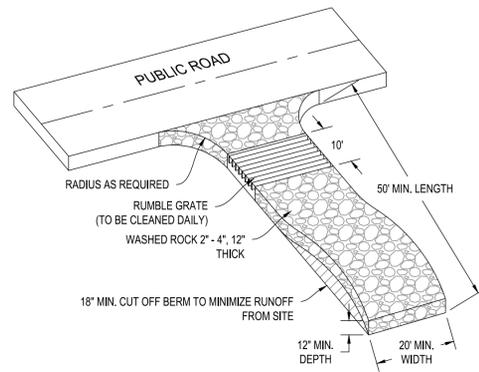
SHEET DESCRIPTION  
**STORMWATER POLLUTION PREVENTION PLAN**

**C802**

**GOPHER STATE CALL**  
**ONE POLLUTION CALL**  
**CALL BEFORE YOU DIG**  
 GREATER MINNESOTA  
 1-800-252-1166



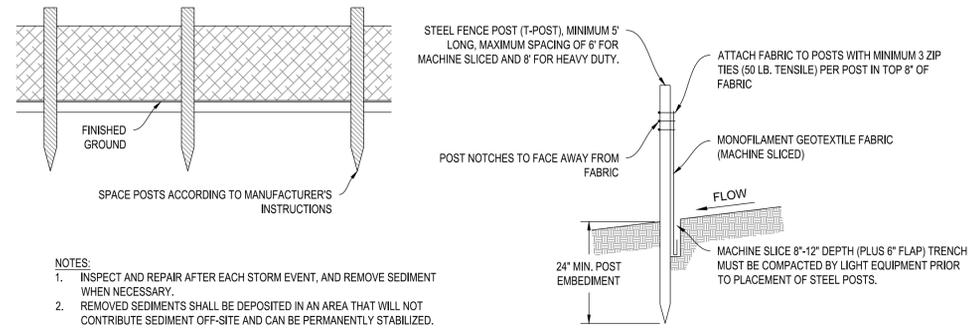
Jan 13, 2018 ©



- NOTES:
1. FILTER FABRIC SHALL BE PLACED UNDER ROCK TO STOP MUD MIGRATION THROUGH ROCK.
  2. ENTRANCE MUST BE MAINTAINED REGULARLY TO PREVENT SEDIMENTATION ON PUBLIC ROADWAYS.

**CONSTRUCTION ENTRANCE DETAIL**

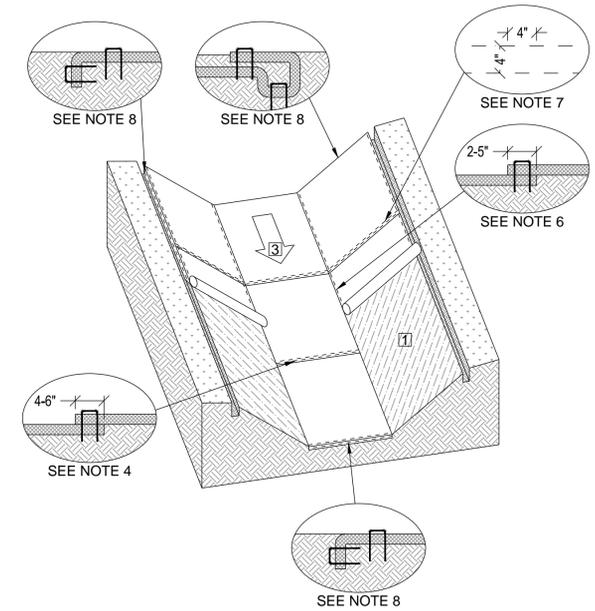
1 NOT TO SCALE



- NOTES:
1. INSPECT AND REPAIR AFTER EACH STORM EVENT, AND REMOVE SEDIMENT WHEN NECESSARY.
  2. REMOVED SEDIMENTS SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

**MACHINED SILT FENCE DETAIL**

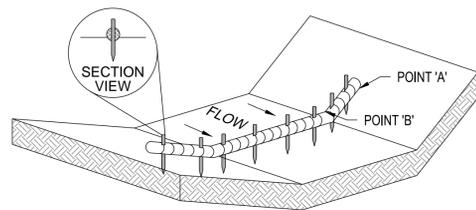
2 NOT TO SCALE



- NOTES:
- HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
  - IN LOOSE SOIL CONDITIONS THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECPs.

**EROSION CONTROL BLANKET CHANNEL DETAIL**

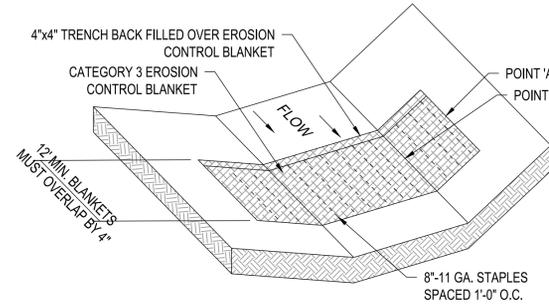
3 NOT TO SCALE



- NOTES:
1. 9" DIAM. WATTLE WITH MINIMUM 1"x2"x24" WOOD STAKES @ 2' O.C. SPACING ALONG WATTLE LENGTH.
  2. ENDS OF WATTLES MUST BE OVERLAPPED 6".
  3. WATTLE SHALL BE INSTALLED MINIMUM 1" BELOW GRADE.

**SEDIMENT CONTROL WATTLE DETAIL**

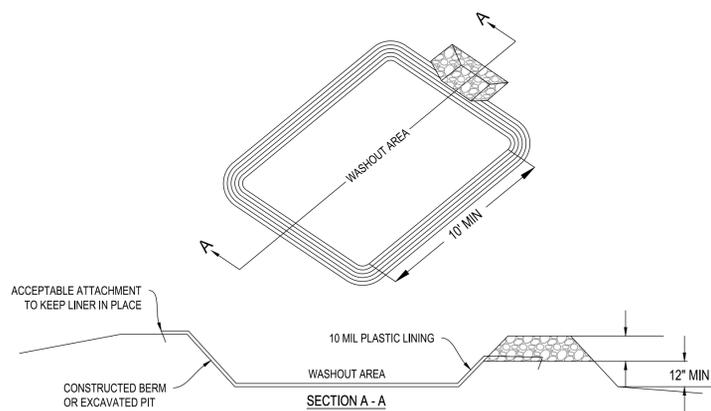
4 NOT TO SCALE



- NOTES:
1. POINT "A" MUST BE HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

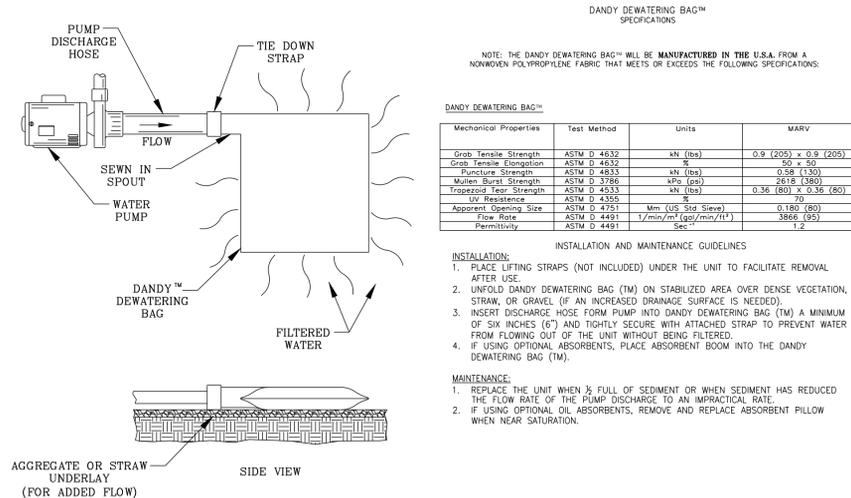
**EROSION CONTROL BLANKET DETAIL**

5 NOT TO SCALE



**CONCRETE WASHOUT AREA**

6 NOT TO SCALE



DANDY DEWATERING BAG™ SPECIFICATIONS  
 NOTE: THE DANDY DEWATERING BAG™ WILL BE MANUFACTURED IN THE U.S.A. FROM A NONWOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

Mechanical Properties	Test Method	Units	MARY
Grab Tensile Strength	ASTM D 4832	kN (lbs)	0.9 (205) x 0.9 (205)
Grab Tensile Elongation	ASTM D 4832	%	50 ± 50
Puncture Strength	ASTM D 4833	kN (lbs)	0.58 (130)
Mullen Burst Strength	ASTM D 3786	psi (kPa)	2618 (180)
Tripod Tear Strength	ASTM D 4833	kN (lbs)	0.36 (80) x 0.36 (80)
UV Resistance	ASTM D 4395	%	70
Apparent Opening Size	ASTM D 4751	Mm (US Sieve)	0.180 (60)
Flow Rate	ASTM D 4481	l/min/m <sup>2</sup> (gpm/ft <sup>2</sup> )	3866 (95)
Permeability	ASTM D 4481	Sec	1.2

- INSTALLATION AND MAINTENANCE GUIDELINES
1. PLACE LIFTING STRAPS (NOT INCLUDED) UNDER THE UNIT TO FACILITATE REMOVAL AFTER USE.
  2. UNFOLD DANDY DEWATERING BAG (TM) ON STABILIZED AREA OVER DENSE VEGETATION, STRAW, OR GRAVEL (IF AN INCREASED DRAINAGE SURFACE IS NEEDED).
  3. INSERT DISCHARGE HOSE FROM PUMP INTO DANDY DEWATERING BAG (TM) A MINIMUM OF SIX INCHES (6") AND TIGHTLY SECURE WITH ATTACHED STRAP TO PREVENT WATER FROM FLOWING OUT OF THE UNIT WITHOUT BEING FILTERED.
  4. IF USING OPTIONAL ABSORBENTS, PLACE ABSORBENT BOOM INTO THE DANDY DEWATERING BAG (TM).

- MAINTENANCE:
1. REPLACE THE UNIT WHEN 1/2 FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE OF THE PUMP DISCHARGE TO AN IMPRACTICAL RATE.
  2. IF USING OPTIONAL OIL ABSORBENTS, REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

**DEWATERING BAG DETAIL**

7 NOT TO SCALE

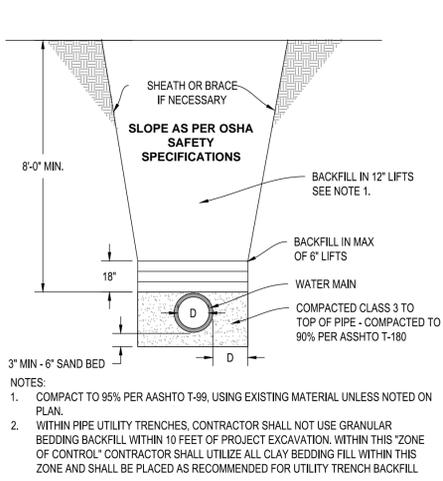
I HEREBY CERTIFY THAT THE PLAN SPECIFICATION, OR REVISIONS THEREON, WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
 TROY M. TOUZ  
 DATE: 6-13-18 REGISTRATION NUMBER: 43726

LJA JOB # 16026  
 PROJ. DATE: 03-24-16  
 FILE NAME: 16026\_C3.2  
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 CHECKED BY: TMT  
 DRAWN BY: BW-DM-TK

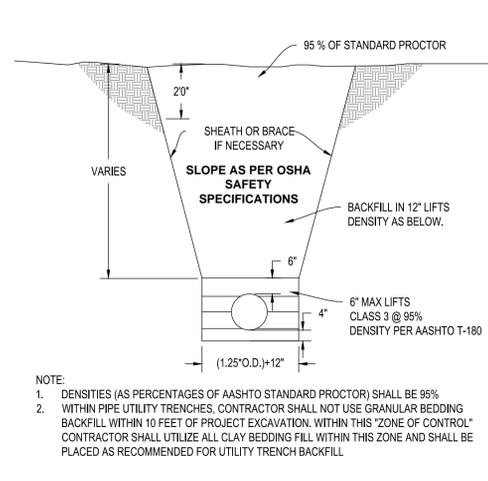
SHEET DESCRIPTION  
**STORMWATER POLLUTION PREVENTION PLAN DETAILS**

**EXHIBIT F**

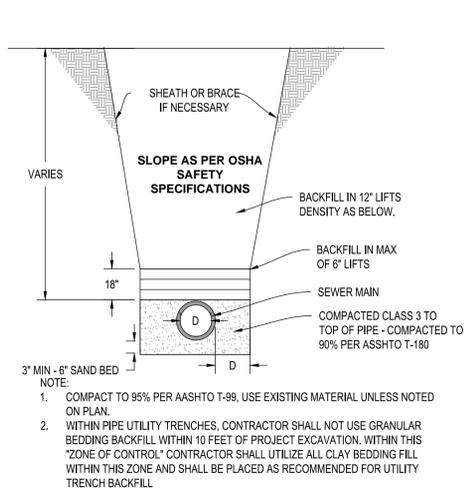
**Utility Details (C900-C901)**



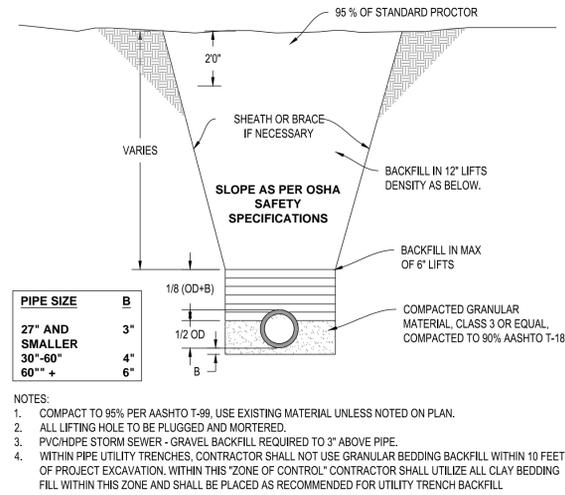
**1 WATER MAIN TRENCH DETAIL**  
 NOT TO SCALE



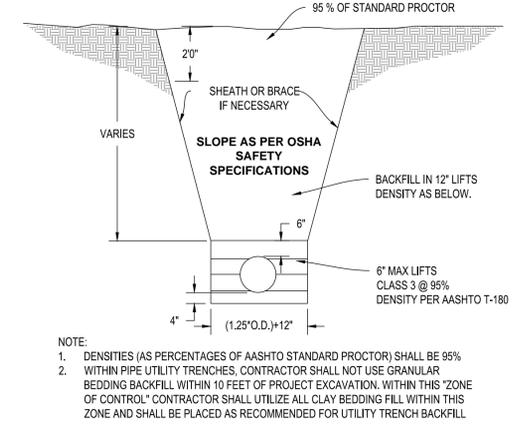
**2 WATER SERVICE TRENCH DETAIL**  
 NOT TO SCALE



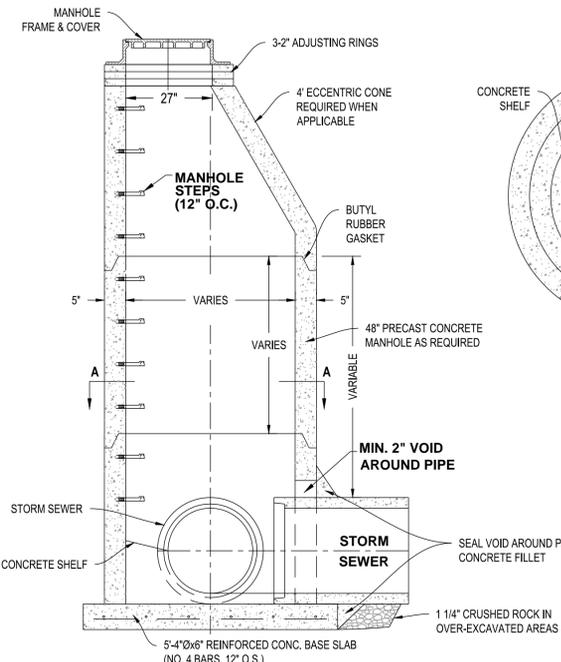
**3 SANITARY SEWER TRENCH DETAIL**  
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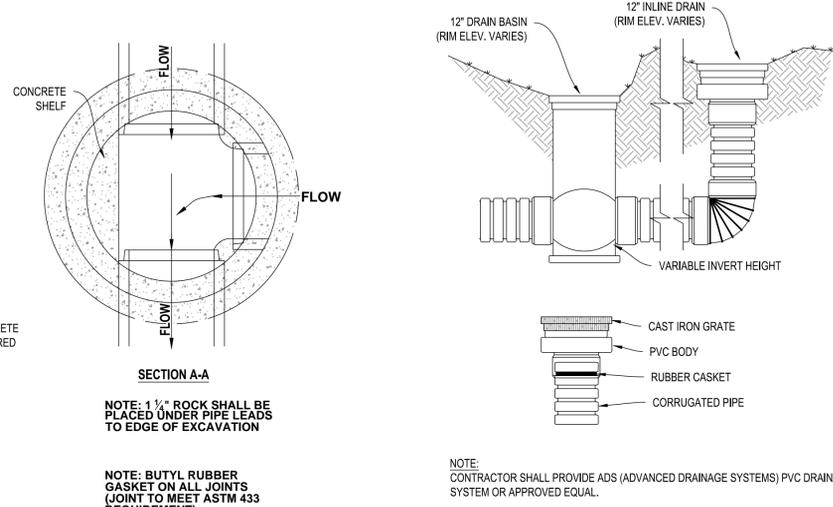
**4 STORM SEWER TRENCH DETAIL**  
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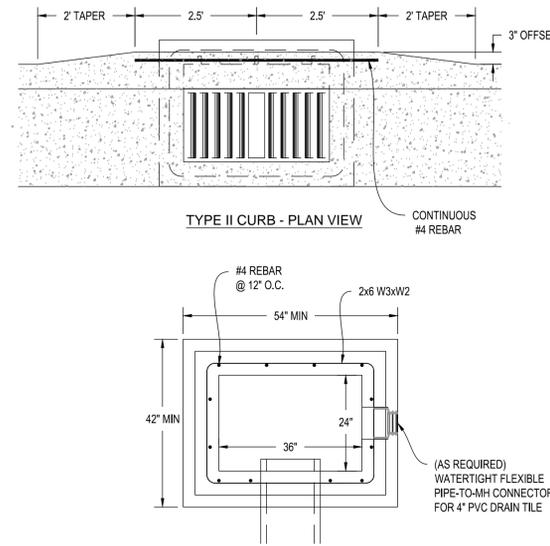
**5 FLEXIBLE PIPE STORM SEWER TRENCH DETAIL**  
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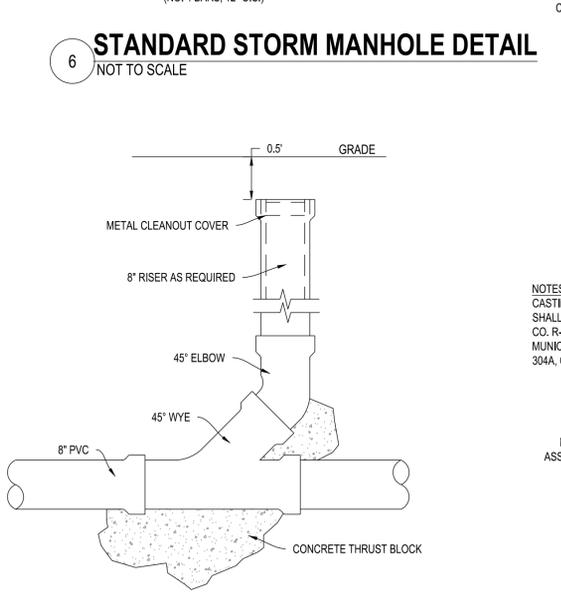
**6 STANDARD STORM MANHOLE DETAIL**  
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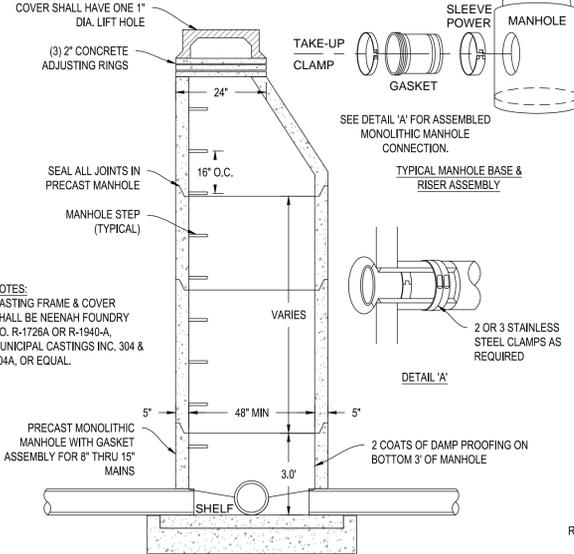
**7 YARD INLET DETAIL**  
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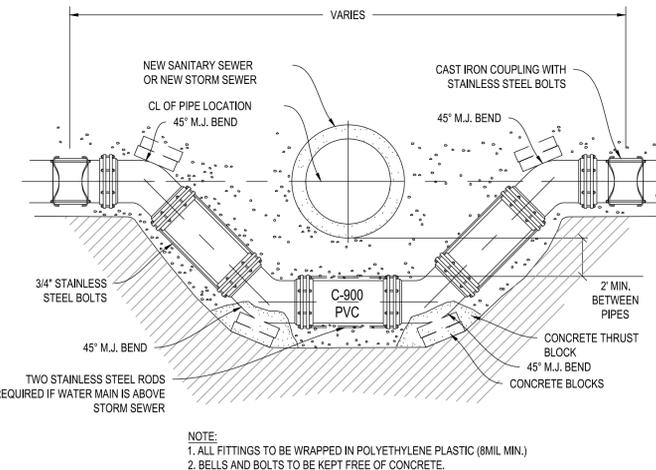
**8 SINGLE BOX INLET DETAIL**  
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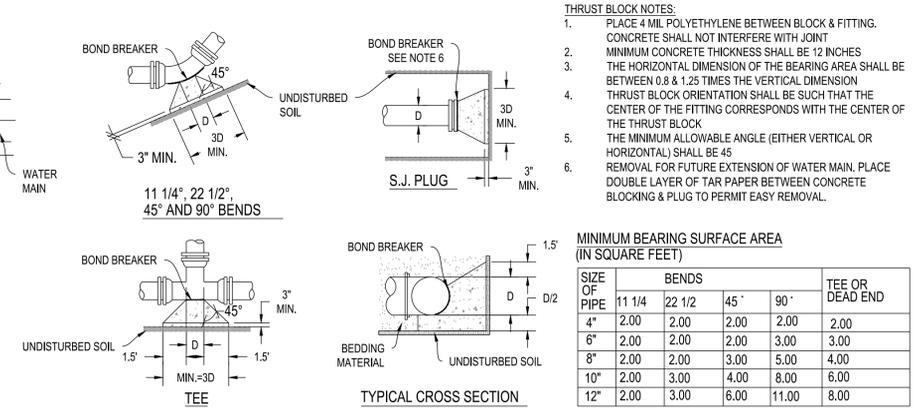
**9 SANITARY CLEANOUT**  
 NOT TO SCALE



**10 SANITARY MANHOLE**  
 NOT TO SCALE



**11 WATER MAIN CROSSING**  
 NOT TO SCALE



**12 THRUST BLOCKING DETAIL**  
 NOT TO SCALE

**THRUST BLOCK NOTES:**

- PLACE 4 MIL POLYETHYLENE BETWEEN BLOCK & FITTING. CONCRETE SHALL NOT INTERFERE WITH JOINT
- MINIMUM CONCRETE THICKNESS SHALL BE 12 INCHES
- THE HORIZONTAL DIMENSION OF THE BEARING AREA SHALL BE BETWEEN 0.8 & 1.25 TIMES THE VERTICAL DIMENSION
- THRUST BLOCK ORIENTATION SHALL BE SUCH THAT THE CENTER OF THE FITTING CORRESPONDS WITH THE CENTER OF THE THRUST BLOCK
- THE MINIMUM ALLOWABLE ANGLE (EITHER VERTICAL OR HORIZONTAL) SHALL BE 45
- REMOVAL FOR FUTURE EXTENSION OF WATER MAIN. PLACE DOUBLE LAYER OF TAR PAPER BETWEEN CONCRETE BLOCKING & PLUG TO PERMIT EASY REMOVAL.

**MINIMUM BEARING SURFACE AREA (IN SQUARE FEET)**

SIZE OF PIPE	BENDS			TEE OR DEAD END
	11 1/4	22 1/2	45° 90°	
4"	2.00	2.00	2.00	2.00
6"	2.00	2.00	3.00	3.00
8"	2.00	2.00	3.00	4.00
10"	2.00	3.00	4.00	6.00
12"	2.00	3.00	6.00	8.00

REVISIONS

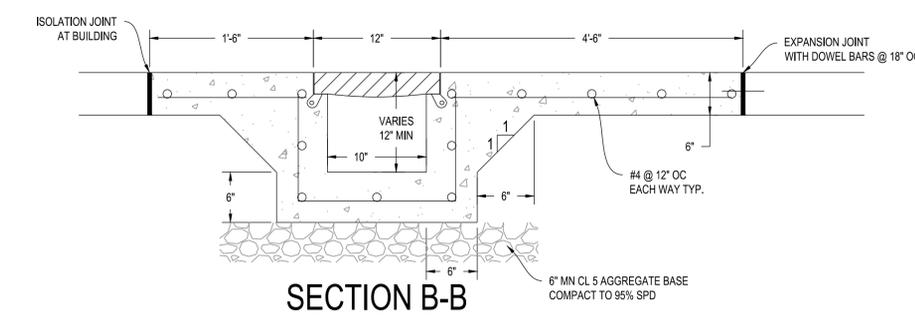
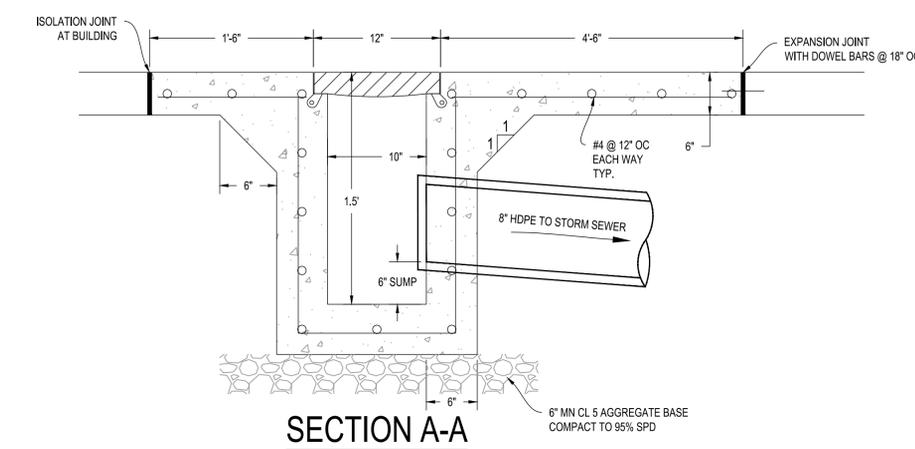
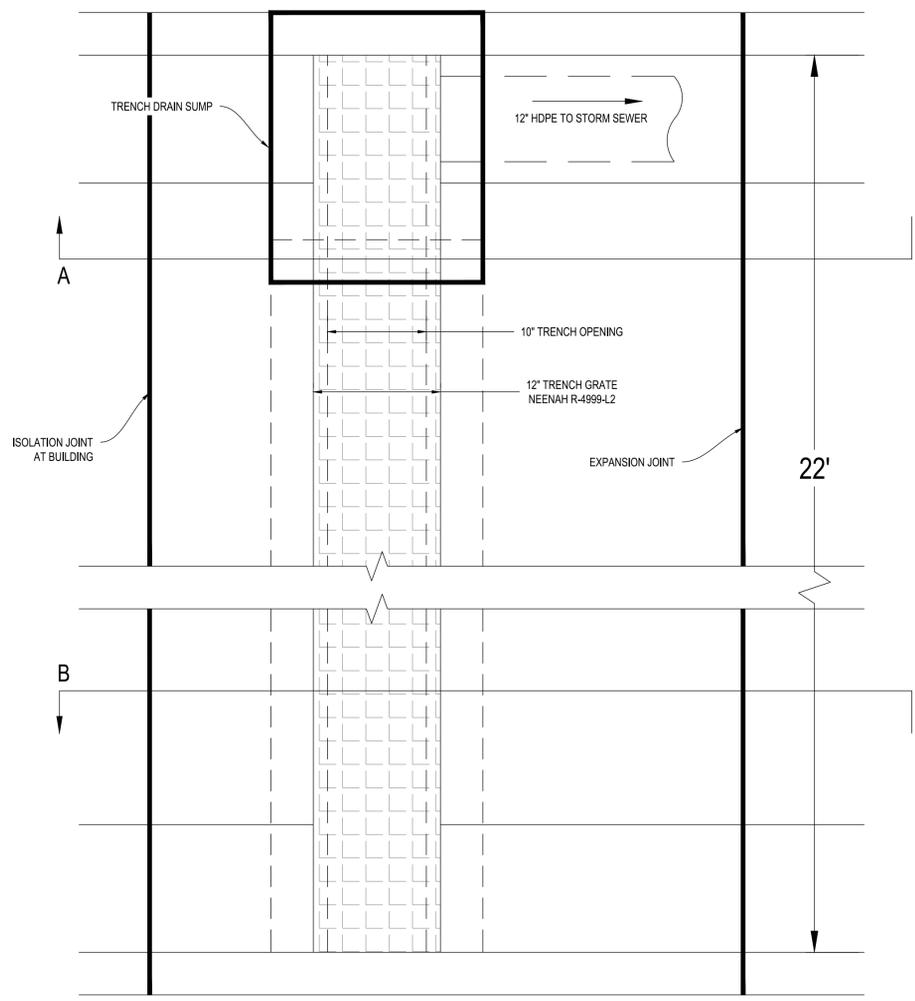
I HEREBY CERTIFY THAT THE PLAN SPECIFICATION, OR PORTION THEREOF, IS THE PROPERTY OF LJA AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF LJA. REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
 TROY M. TOOZ  
 DATE: 6-13-18 REGISTRATION NUMBER: 43726

LJA JOB # 16026  
 PROJ. DATE: 03-24-16  
 FILE NAME: 16026 C4.0  
 DWG. SCALE: NTS  
 CHECKED BY: TMT  
 DRAWN BY: BW-DM-TK

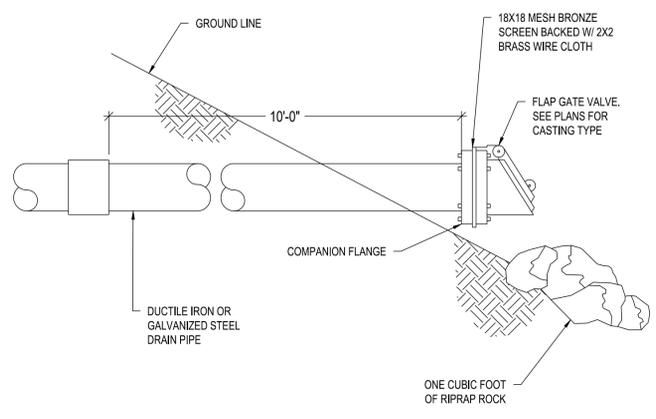
SHEET DESCRIPTION

UTILITY DETAILS

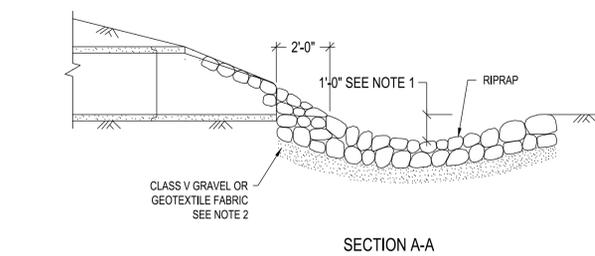
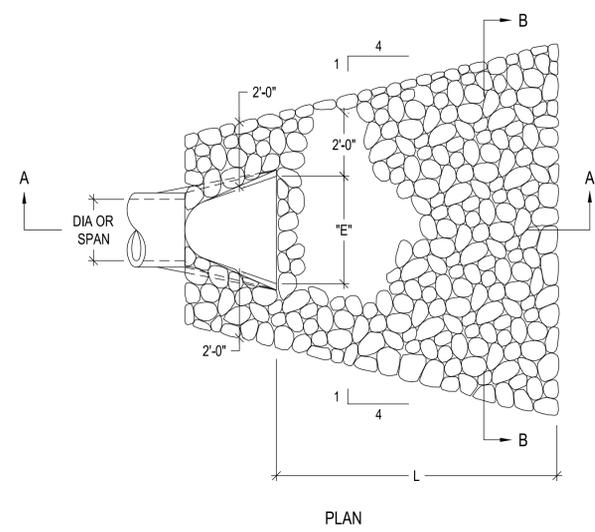
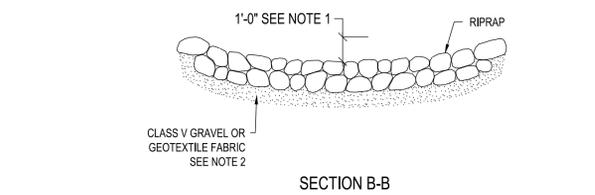
**C901**



**1 PARKING RAMP TRENCH DRAIN DETAIL**  
 NOT TO SCALE



**2 TYP FLAP GATE OUTFALL DETAIL**  
 NOT TO SCALE



**3 TYP OUTFALL DETAIL**  
 NOT TO SCALE

TABLE OF QUANTITIES

DIA. OF ROUND PIPE (IN)	L (FT)	CLASS II d50 = 6"		CLASS III d50 = 9"		CLASS IV d50 = 12"		"E" (IN.)
		12" DEPTH RIPRAP (CU YDS)	6" DEPTH GRANULAR FILTER (CU YDS)	18" DEPTH RIPRAP (CU YDS)	9" DEPTH GRANULAR FILTER (CU YDS)	24" DEPTH RIPRAP (CU YDS)	12" DEPTH GRANULAR FILTER (CU YDS)	
12	8	2.8	1.4	4.1	2.1	5.5	2.8	24
15	8	2.9	1.5	4.4	2.2	5.8	2.9	30
18	10	3.9	2.0	5.9	3.0	7.8	3.9	36
21	10	4.2	2.1	6.3	3.2	8.4	4.2	42
24	12	5.5	2.8	8.3	4.2	11.0	5.5	48
27	12	5.8	2.9	8.7	4.4	11.6	5.8	54
30	14	7.3	3.7	10.9	5.5	14.5	7.3	60
36	16	9.2	4.6	13.8	6.9	18.3	9.2	72
42	18	10.9	5.5	16.3	8.2	21.7	10.9	78
48	20	12.9	6.5	19.4	9.7	25.8	12.9	84
54	16	9.2	4.6	13.8	6.9	18.3	9.2	72
60	18	10.9	5.5	16.3	8.2	21.7	10.9	78
72	20	12.9	6.5	19.4	9.7	25.8	12.9	84

TABLE OF QUANTITIES

RIPRAP AT RCP-A OUTLETS OR BOXES OF EQUIVALENT SPAN WIDTH

SPAN OF PIPE ARCH (IN.)	L (FT)	CLASS II d50 = 6"		CLASS III d50 = 9"		CLASS IV d50 = 12"		"E" (IN.)
		12" DEPTH RIPRAP (CU YDS)	6" DEPTH GRANULAR FILTER (CU YDS)	18" DEPTH RIPRAP (CU YDS)	9" DEPTH GRANULAR FILTER (CU YDS)	24" DEPTH RIPRAP (CU YDS)	12" DEPTH GRANULAR FILTER (CU YDS)	
22	10	3.9	2.0	5.9	3.0	7.8	3.9	36
28	12	5.5	2.8	8.2	4.1	10.9	5.5	48
36	14	7.2	3.6	10.8	5.4	14.3	7.2	60
43	16	9.2	4.6	13.7	6.9	18.3	9.2	72
51	18	10.9	5.5	16.3	8.2	21.7	10.9	78
58	20	12.7	6.4	19.0	9.5	25.4	12.7	84

NOTES:

- FOR PIPES LESS THAN 30" USE 1.0' DEPTH. FOR PIPES GREATER THAN OR EQUAL TO 30" USE 1.5' DEPTH.
- CONTRACTOR HAS THE OPTION TO USE CLASS V GRAVEL OR GEOTEXTILE FABRIC. CLASS V GRAVEL SHALL BE A MINIMUM OF 6" IN DEPTH. GEOTEXTILE FABRIC SHALL COVER THE AREA OF THE RIPRAP AND EXTEND 1.0' BEYOND THE RIPRAP ON ALL SIDES EXCEPT FOR 3.0' UNDER THE FLARED END SECTION.

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May 23, 2018

**EXHIBIT G**

**Stormwater Management Plan**

REVISIONS

04/14/17	FLOODPROOFING
08/21/17	FRANCH. CMTS. (90%)

**FAIRFIELD INN & SUITES**  
**80 UNITS, 4 STORIES**  
**NORTHFIELD, MINNESOTA**

I HEREBY CERTIFY THAT THE PLAN, SPECIFICATION, OR REPORT SUBMITTED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND UNDER THE REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
 TROY M. TOOZ  
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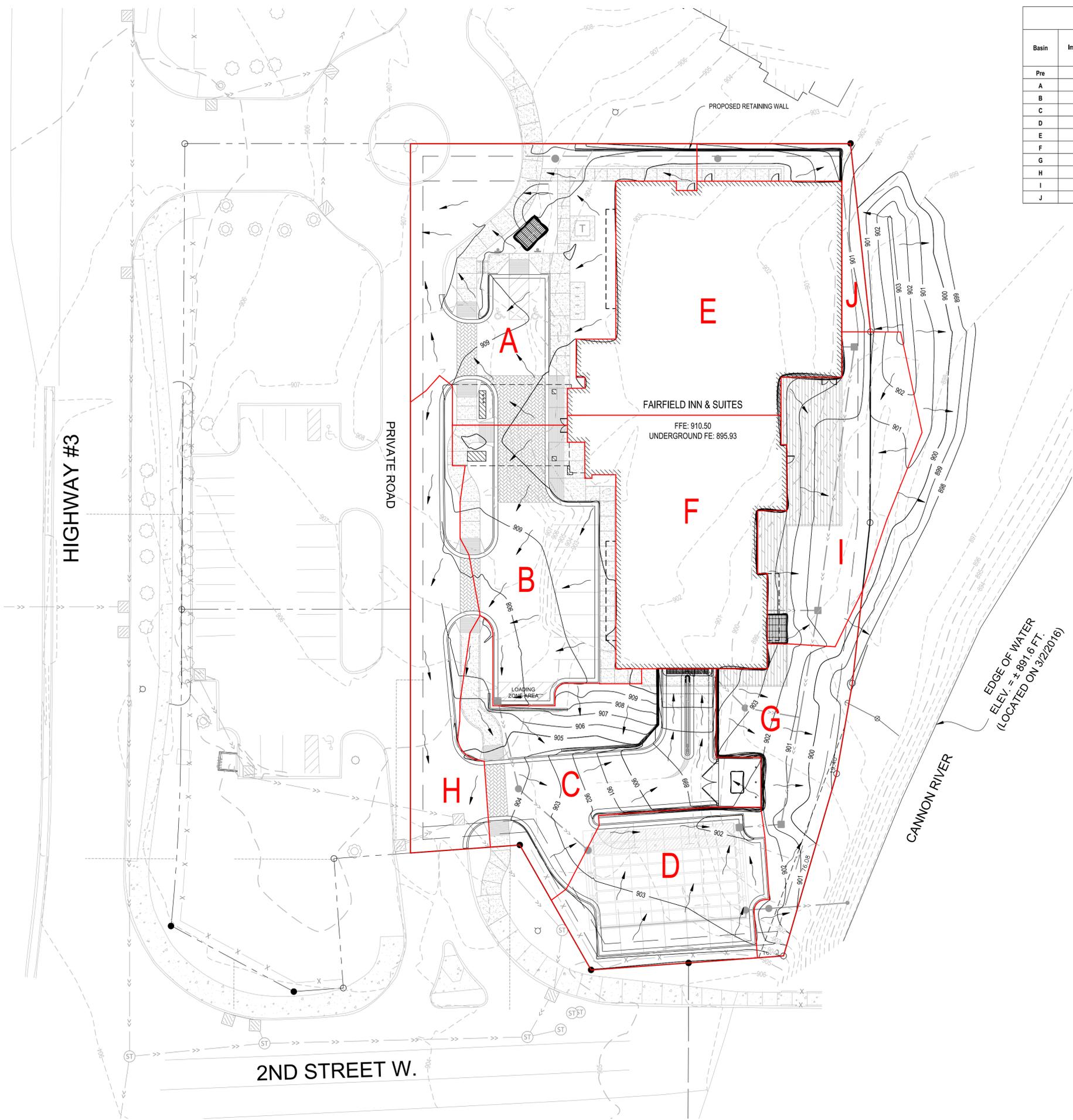
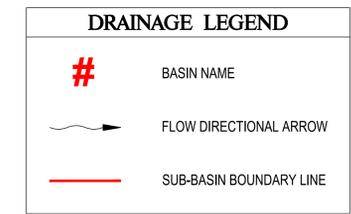
LJA JOB #	16026
PROJ. DATE	03-24-16
FILE NAME	16026 C3.1
DWG. SCALE	1" = 20' @ 24" X 36"
CHECKED BY:	TMT
DRAWN BY:	BW - DM - TK

SHEET DESCRIPTION  
**DRAINAGE PLAN**

**C700**

**DRAINAGE SUMMARY TABLE**

Basin	Area Impervious (acres)	Area Pervious (acres)	Total Area (acres)	Time of Conc. T <sub>c</sub> (min)	2 Yr Intensity I <sub>2</sub> (in/hr)	10 Yr Intensity I <sub>10</sub> (in/hr)	100 Yr Intensity I <sub>100</sub> (in/hr)	Weighted CN Average	2-Yr Peak Flow (cfs)	10-Yr Peak Flow (cfs)	100-Yr Peak Flow (cfs)	Storage Vol. Req'd (cubic-ft)
Pre	0.23	1.04	1.27	5.0	2.84	4.24	7.29	73	1.75	4.03	9.74	5,800
A	0.150	0.057	0.207	5.0	2.84	4.24	7.29	82	0.48	0.91	1.89	
B	0.132	0.006	0.138	5.0	2.84	4.24	7.29	95	0.54	0.83	1.46	
C	0.102	0.048	0.150	5.0	2.84	4.24	7.29	79	0.30	0.60	1.31	
D	0.084	0.021	0.105	5.0	2.84	4.24	7.29	86	0.30	0.52	1.02	
E	0.198	0.000	0.198	5.0	2.84	4.24	7.29	98	0.82	1.23	2.13	
F	0.155	0.000	0.155	5.0	2.84	4.24	7.29	98	0.64	0.96	1.66	
G	0.000	0.090	0.090	5.0	2.84	4.24	7.29	39	0.00	0.00	0.11	
H	0.090	0.008	0.098	5.0	2.84	4.24	7.29	93	0.36	0.57	1.03	
I	0.000	0.012	0.012	5.0	2.84	4.24	7.29	39	0.00	0.00	0.15	
J	0.004	0.029	0.033	5.0	2.84	4.24	7.29	46	0.00	0.01	0.08	



**GOPHER STATE**  
**ONE CALL**  
 CALL BEFORE YOU DIG  
 GREATER MINNESOTA  
 1-800-252-1166

**EXHIBIT H**

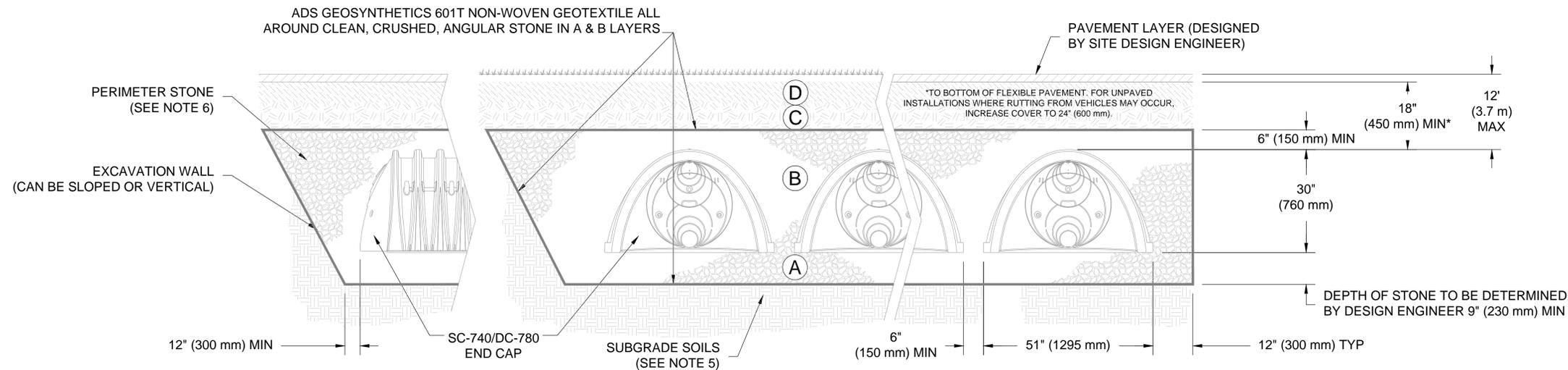
**Stormtech DC-780 Chamber Systems and Inspection Guide**

## ACCEPTABLE FILL MATERIALS: STORMTECH DC-780 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	<b>FINAL FILL:</b> FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	<b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 <sup>1</sup> A-1, A-2-4, A-3  OR AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	<b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	<b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>

**PLEASE NOTE:**

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



**NOTES:**

- DC-780 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- DC-780 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

**FAIRFIELD INN & SUITES**  
**80 UNITS, 4 STORIES**  
**NORTHFIELD, MINNESOTA**

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 TROY M. TOOZ  
 DATE: 6-13-18 REGISTRATION NUMBER: 43726

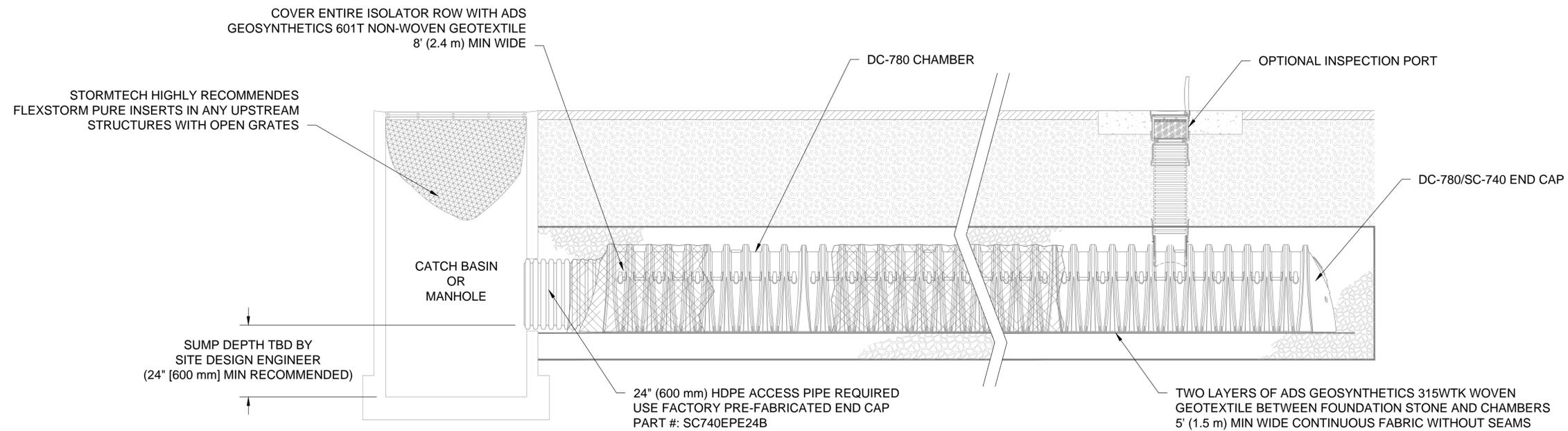
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CHECKED BY:	TMT
DRAWN BY:	BW-DM-TK

SHEET DESCRIPTION

UTILITY DETAILS

**C902**

REVISIONS



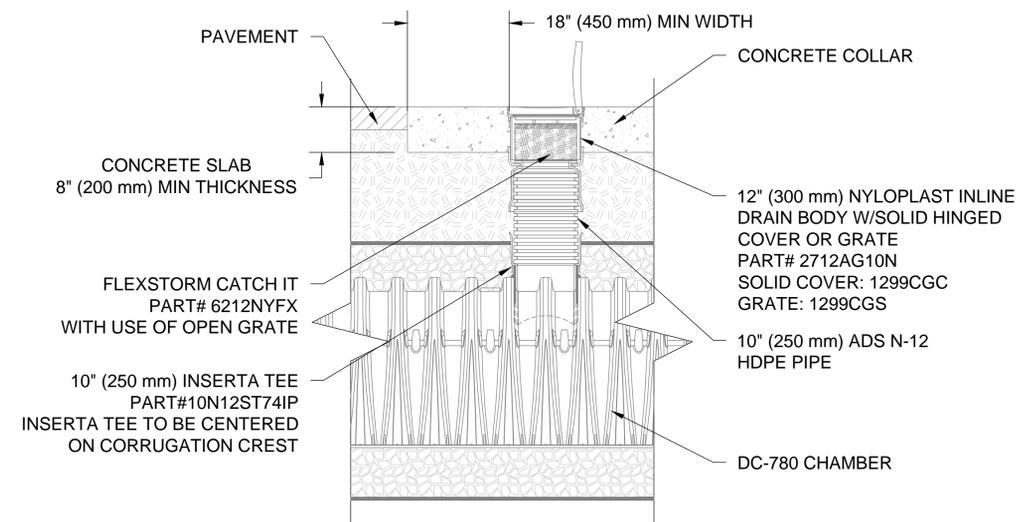
**DC-780 ISOLATOR ROW DETAIL**  
 NTS

**INSPECTION & MAINTENANCE**

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
    - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
    - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
    - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
    - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
    - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
  - B. ALL ISOLATOR ROWS
    - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
    - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
      - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
      - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
    - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
  - B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
  - C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

**NOTES**

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



**DC-780 INSPECTION PORT DETAIL**  
 NTS

**FAIRFIELD INN & SUITES**  
**80 UNITS, 4 STORIES**  
**NORTHFIELD, MINNESOTA**

I, HEREBY CERTIFY THAT THE PLAN, SPECIFICATION, OR REPORT SUBMITTED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND UNDER THE REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
 TROY M. TOOZ  
 DATE: 6-13-18 REGISTRATION NUMBER: 43726

LJA JOB #	16026
PROJ. DATE	03-24-16
FILE NAME	16026_C4.0
DWG. SCALE	NTS
CHECKED BY	TMT
DRAWN BY	BW-DM-TK

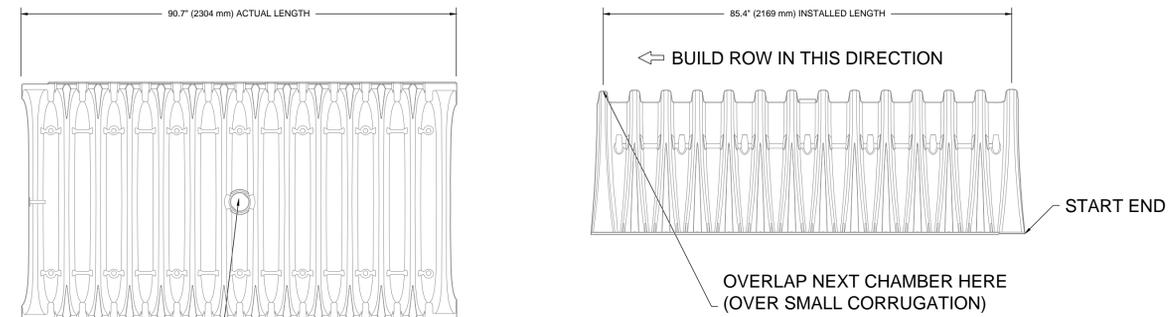
SHEET DESCRIPTION

UTILITY DETAILS

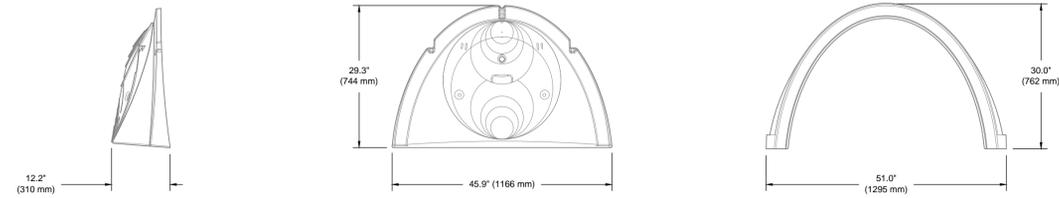
**C903**

**DC-780 TECHNICAL SPECIFICATION**

NTS



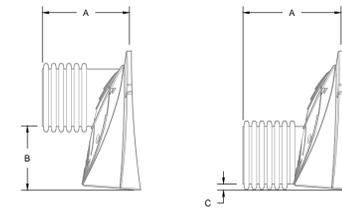
ACCEPTS 4" (100 mm) SCH 40 PVC PIPE FOR INSPECTION PORT. FOR PIPE SIZES LARGER THAN 4" (100 mm) UP TO 10" (250 mm) USE INSERTA TEE CONNECTION CENTERED ON A CHAMBER CREST CORRUGATION



**NOMINAL CHAMBER SPECIFICATIONS**

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	46.2 CUBIC FEET	(1.30 m <sup>3</sup> )
MINIMUM INSTALLED STORAGE*	78.4 CUBIC FEET	(2.20 m <sup>3</sup> )
WEIGHT	75.0 lbs.	(33.6 kg)

\*ASSUMES 6" (152 mm) STONE ABOVE, 9" (229 mm) BELOW, AND 6" (152 mm) BETWEEN CHAMBERS



STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"  
 STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC	6" (150 mm)	10.9" (277 mm)	---	0.5" (13 mm)
SC740EPE08T / SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC	8" (200 mm)	12.2" (310 mm)	---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC	10" (250 mm)	13.4" (340 mm)	---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC	12" (300 mm)	14.7" (373 mm)	---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC	15" (375 mm)	18.4" (467 mm)	---	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC	18" (450 mm)	19.7" (500 mm)	---	1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

\* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

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SHEET DESCRIPTION  
**UTILITY DETAILS**

**C904**