

NEW YORK STATE DEPARTMENT OF STATE  
COASTAL MANAGEMENT PROGRAM

Federal Consistency Assessment Form

An applicant, seeking a permit, license, waiver, certification or similar type of approval from a federal agency which is subject to the New York State Coastal Management Program (CMP), shall complete this assessment form for any proposed activity that will occur within and/or directly affect the State's Coastal Area. This form is intended to assist an applicant in certifying that the proposed activity is consistent with New York State's CMP as required by U.S. Department of Commerce regulations (15 CFR 930.57). It should be completed at the time when the federal application is prepared. The Department of State will use the completed form and accompanying information in its review of the applicant's certification of consistency.

A. **APPLICANT** (please print)

1. Name: \_\_\_\_\_
2. Address: \_\_\_\_\_
3. Telephone: Area Code (    ) \_\_\_\_\_

B. **PROPOSED ACTIVITY:**

1. Brief description of activity:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Purpose of activity:

\_\_\_\_\_  
\_\_\_\_\_

3. Location of activity:

_____	_____	_____
County	City, Town, or Village	Street or Site Description

4. Type of federal permit/license required: \_\_\_\_\_

5. Federal application number, if known: \_\_\_\_\_

6. If a state permit/license was issued or is required for the proposed activity, identify the state agency and provide the application or permit number, if known:

\_\_\_\_\_

C. **COASTAL ASSESSMENT** Check either "YES" or "NO" for each of these questions. The numbers following each question refer to the policies described in the CMP document (see footnote on page 2) which may be affected by the proposed activity.

- |                                                                                                                                                                                                                                     |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 1. Will the proposed activity result in any of the following:                                                                                                                                                                       | YES/NO |
| a. Large physical change to a site within the coastal area which will require the preparation of an environmental impact statement? (11, 22, 25, 32, 37, 38, 41, 43)                                                                | — —    |
| b. Physical alteration of more than two acres of land along the shoreline, land under water or coastal waters? (2, 11, 12, 20, 28, 35, 44)                                                                                          | — —    |
| c. Revitalization/redevelopment of a deteriorated or underutilized waterfront site? (1)                                                                                                                                             | — —    |
| d. Reduction of existing or potential public access to or along coastal waters? (19, 20)                                                                                                                                            | — —    |
| e. Adverse effect upon the commercial or recreational use of coastal fish resources? (9,10)                                                                                                                                         | — —    |
| f. Siting of a facility essential to the exploration, development and production of energy resources in coastal waters or on the Outer Continental Shelf? (29)                                                                      | — —    |
| g. Siting of a facility essential to the generation or transmission of energy? (27)                                                                                                                                                 | — —    |
| h. Mining, excavation, or dredging activities, or the placement of dredged or fill material in coastal waters? (15, 35)                                                                                                             | — —    |
| i. Discharge of toxics, hazardous substances or other pollutants into coastal waters? (8, 15, 35)                                                                                                                                   | — —    |
| j. Draining of stormwater runoff or sewer overflows into coastal waters? (33)                                                                                                                                                       | — —    |
| k. Transport, storage, treatment, or disposal of solid wastes or hazardous materials? (36, 39)                                                                                                                                      | — —    |
| l. Adverse effect upon land or water uses within the State's small harbors? (4)                                                                                                                                                     | — —    |
| 2. Will the proposed activity affect or be located in, on, or adjacent to any of the following:                                                                                                                                     | YES/NO |
| a. State designated freshwater or tidal wetland? (44)                                                                                                                                                                               | — —    |
| b. Federally designated flood and/or state designated erosion hazard area? (11, 12, 17)                                                                                                                                             | — —    |
| c. State designated significant fish and/or wildlife habitat? (7)                                                                                                                                                                   | — —    |
| d. State designated significant scenic resource or area? (24)                                                                                                                                                                       | — —    |
| e. State designated important agricultural lands? (26)                                                                                                                                                                              | — —    |
| f. Beach, dune or Barrier Island? (12)                                                                                                                                                                                              | — —    |
| g. Major ports of Albany, Buffalo, Ogdensburg, Oswego or New York? (3)                                                                                                                                                              | — —    |
| h. State, county, or local park? (19, 20)                                                                                                                                                                                           | — —    |
| i. Historic resource listed on the National or State Register of Historic Places? (23)                                                                                                                                              | — —    |
| 3. Will the proposed activity require any of the following:                                                                                                                                                                         | YES/NO |
| a. Waterfront site? (2, 21, 22)                                                                                                                                                                                                     | — —    |
| b. Provision of new public services or infrastructure in undeveloped or sparsely populated sections of the coastal area? (5)                                                                                                        | — —    |
| c. Construction or reconstruction of a flood or erosion control structure? (13, 14, 16)                                                                                                                                             | — —    |
| d. State water quality permit or certification? (30, 38, 40)                                                                                                                                                                        | — —    |
| e. State air quality permit or certification? (41, 43)                                                                                                                                                                              | — —    |
| 4. Will the proposed activity occur within and/or affect an area covered by a State-approved local waterfront revitalization program, or State-approved regional coastal management program?<br>(see policies in program document*) | — —    |

**D. ADDITIONAL STEPS**

1. If all of the questions in Section C are answered "NO", then the applicant or agency shall complete Section E and submit the documentation required by Section F.
2. If any of the questions in Section C are answered "YES", then the applicant or agent is advised to consult the CMP, or where appropriate, the local waterfront revitalization program document\*. The proposed activity must be analyzed in more detail with respect to the applicable state or local coastal policies. On a separate page(s), the applicant or agent shall: (a) identify, by their policy numbers, which coastal policies are affected by the activity, (b) briefly assess the effects of the activity upon the policy; and, (c) state how the activity is consistent with each policy. Following the completion of this written assessment, the applicant or agency shall complete Section E and submit the documentation required by Section F.

**E. CERTIFICATION**

The applicant or agent must certify that the proposed activity is consistent with the State's CMP or the approved local waterfront revitalization program, as appropriate. If this certification cannot be made, the proposed activity shall not be undertaken. If this certification can be made, complete this Section.

"The proposed activity complies with New York State's approved Coastal Management Program, or with the applicable approved local waterfront revitalization program, and will be conducted in a manner consistent with such program."

Applicant/Agent's Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: Area Code (     ) \_\_\_\_\_

Applicant/Agent's Signature: Corey Reid Date: 8/14/20

**F. SUBMISSION REQUIREMENTS**

1. The applicant or agent shall submit the following documents to the **New York State Department of State, Office of Planning and Development, Attn: Consistency Review Unit, One Commerce Plaza-Suite 1010, 99 Washington Avenue, Albany, New York 12231.**
  - a. Copy of original signed form.
  - b. Copy of the completed federal agency application.
  - c. Other available information which would support the certification of consistency.
2. The applicant or agent shall also submit a copy of this completed form along with his/her application to the federal agency.
3. If there are any questions regarding the submission of this form, contact the Department of State at (518) 474-6000.

\*These state and local documents are available for inspection at the offices of many federal agencies, Department of environmental Conservation and Department of State regional offices, and the appropriate regional and county planning agencies. Local program documents are also available for inspection at the offices of the appropriate local government.

**VILLAGE OF SACKETS HARBOR**  
**Brown Shores Culvert Replacement Project**  
**BCA Project No. 2018-113**

NEW YORK STATE DEPARTMENT OF STATE  
DIVISION OF COASTAL RESOURCES  
COASTAL MANAGEMENT PROGRAM

FEDERAL CONSISTENCY ASSESSMENT FORM  
SECTION D: ADDITIONAL STEPS

1. Will the proposed activity result in any of the following:

- h. Mining, excavation, or dredging activities, or the placement of dredged or fill material in coastal waters?

**Policy #15 – Mining, excavation or dredging in coastal waters shall not significantly interfere with the natural coastal processes which supply beach materials to land adjacent to such waters and shall be undertaken in a manner which will not cause an increase in erosion of such land.**

*Answer: Applicable US Army Corps of Engineers and NYS Department of Environmental Conservation measures will be utilized to minimize any potential impact to the excavation within the coastal waters.*

**Policy #35 – Dredging and filling in coastal waters and disposal of dredged material will be undertaken in a manner that meets existing State dredging permit requirements, and protects significant fish and wildlife habitats, scenic resources, natural protective features, important agricultural lands, and wetlands.**

*Answer: Applicable US Army Corps of Engineers and NYS Department of Environmental Conservation measures will be used for the disposal of dredged materials that meet existing State requirements.*

- j. Draining of stormwater runoff or sewer overflows into coastal waters?

**Policy #33 – Best management practices will be used to ensure the control of stormwater runoff and combined sewer overflows draining into coastal waters.**

*Answer: The project site will use best management practices to ensure the control of stormwater runoff. No combined sewers are part of this project.*

2. Will the proposed activity affect or be located in, on, or adjacent to any of the following:

- a. State designated freshwater or tidal wetland?

**Policy #44 – Preserved and protect tidal and freshwater wetlands and preserve the benefits derived from these areas.**

**VILLAGE OF SACKETS HARBOR**  
**Brown Shores Culvert Replacement Project**  
**BCA Project No. 2018-113**

*Answer: Applicable US Army Corps of Engineers and NYS Department of Environmental Conservation measures will be utilized to minimize any potential impact to any wetlands located within or adjacent to the proposed project area.*

3. Will the proposed activity require any of the following:

a. Waterfront site?

**Policy #2 – Facilitate the siting of water-dependent uses and facilities on or adjacent to coastal waters.**

*Answer: This project does not include water dependent uses or facilities and will not be constructed on or adjacent to coastal waters where possible.*

**Policy #21 – Water-dependent and water-enhanced recreation will be encouraged and facilitated and will be given priority over non-water-related used along the coast.**

*Answer: The project site will be generally restored to the preconstruction conditions but will incorporate resiliency into the roadway/culvert design. This project will not affect any water-dependent and water-enhanced recreation.*

**Policy #22 – Development, when located adjacent to the shore, will provide for water-related recreation, whenever such use is compatible with reasonable anticipated demand for such activities, and is compatible with the primary purpose of the development.**

*Answer: This project does not provide for water-related recreation and is the replacement of an existing culvert and modifications to roadway.*

c. Construction or reconstruction of a flood or erosion control structure?

**Policy #13 – The construction or reconstruction of erosion protection structures shall be undertaken only if they have reasonable probability of controlling erosion for at least thirty years as demonstrated in design and construction standards and/or assured maintenance or replacement programs.**

*Answer: This project includes the reconstruction of a stormwater structure that conveys runoff. Permanent and temporary erosion control practices have been proposed for this project to alleviate future erosion.*

**Policy #14 – Activities and development including the construction or reconstruction of erosion protection structures, shall be undertaken so that there will be no measurable increase in erosion or flooding at the site of such activities or development, or at other locations.**

*Answer: Measures have been included in the redevelopment of the project to decrease erosion and help alleviate runoff.*

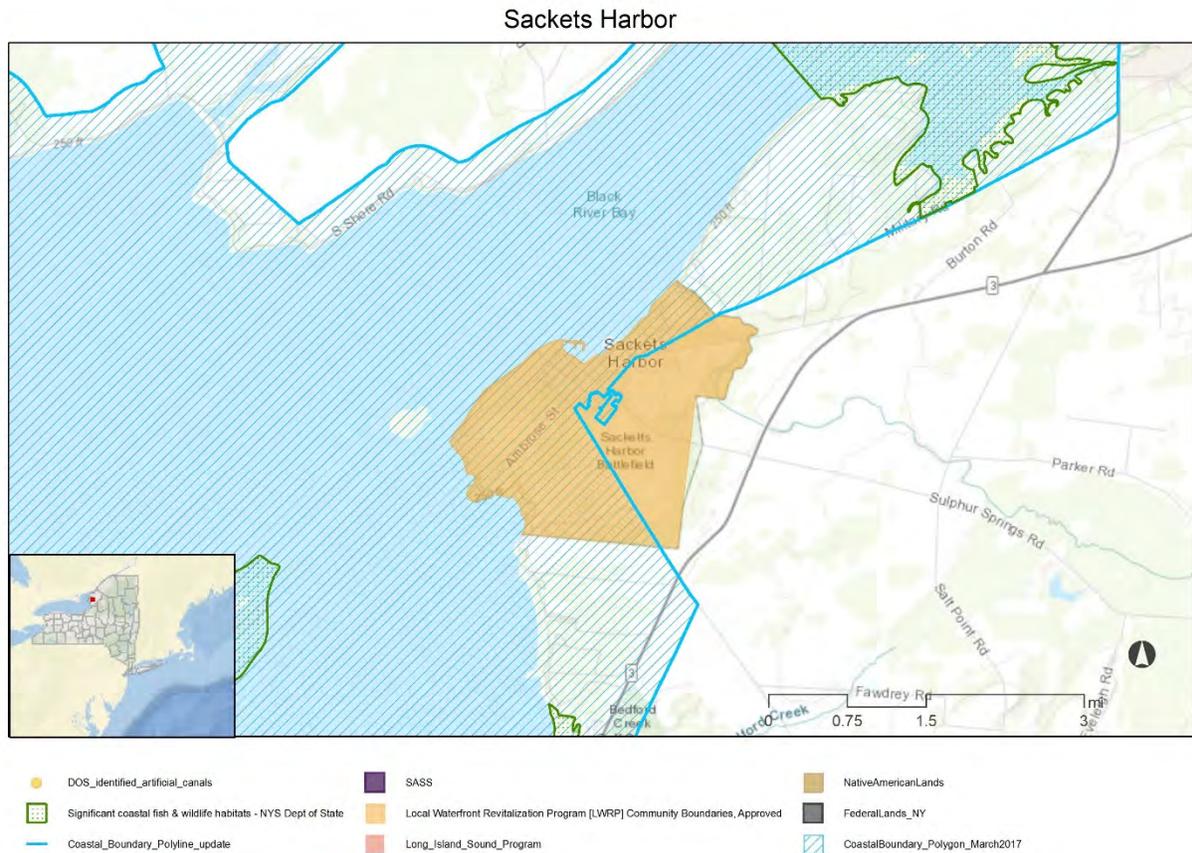
**Policy #16 – Public funds shall only be used for erosion protective structures where necessary to protect human life, and new development which requires a location within or adjacent to an erosion hazard area to be able to function, or existing development; and only where the public benefits outweigh the long term monetary and other costs including the potential for increasing erosion and adverse effects on natural protective features.**

**VILLAGE OF SACKETS HARBOR**  
**Brown Shores Culvert Replacement Project**  
**BCA Project No. 2018-113**

*Answer: Measures have been proposed to alleviate future erosion.*

4. Will the proposed activity occur within and/or affect an area covered by a State-approved local waterfront revitalization program, or State-approved regional coastal management program?

*Answer: The proposed project is within a State-approved local waterfront revitalization program.*



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JOINT APPLICATION FORM

For Permits for activities affecting streams, waterways, waterbodies, wetlands, coastal areas, sources of water, and endangered and threatened species.

You must separately apply for and obtain Permits from each involved agency before starting work. Please read all instructions.

1. Applications To:

>NYS Department of Environmental Conservation [checked] Check here to confirm you sent this form to NYSDEC.

Check all permits that apply:

[ ] Stream Disturbance

[checked] Excavation and Fill in Navigable Waters

[ ] Docks, Moorings or Platforms

[ ] Dams and Impoundment Structures

[checked] 401 Water Quality Certification

[checked] Freshwater Wetlands

[ ] Tidal Wetlands

[ ] Wild, Scenic and Recreational Rivers

[ ] Coastal Erosion Management

[ ] Water Withdrawal

[ ] Long Island Well

[ ] Incidental Take of Endangered / Threatened Species

>US Army Corps of Engineers

[checked] Check here to confirm you sent this form to USACE.

Check all permits that apply: [checked] Section 404 Clean Water Act

[ ] Section 10 Rivers and Harbors Act

Is the project Federally funded? [checked] Yes [ ] No

If yes, name of Federal Agency: FEMA

General Permit Type(s), if known: 2017 NATIONWIDE PERMIT 3

Preconstruction Notification: [ ] Yes [checked] No

>NYS Office of General Services

[ ] Check here to confirm you sent this form to NYSOGS.

Check all permits that apply:

[ ] State Owned Lands Under Water

[ ] Utility Easement (pipelines, conduits, cables, etc.)

[ ] Docks, Moorings or Platforms

>NYS Department of State

[ ] Check here to confirm you sent this form to NYSDOS.

Check if this applies: [ ] Coastal Consistency Concurrence

2. Name of Applicant

Village of Sackets Harbor

Taxpayer ID (if applicant is NOT an individual)

156001374

Mailing Address

PO Box 335

Post Office / City

Sackets Harbor

State

NY

Zip

13685

Telephone (315) 640-1032

Email eric.constance@sacketsharbor-ny.gov

Applicant Must be (check all that apply): [checked] Owner [checked] Operator [ ] Lessee

3. Name of Property Owner (If different than Applicant)

Mailing Address

Post Office / City

State

Zip

Telephone

Email

For Agency Use Only

Agency Application Number:

**4. Name of Contact / Agent**  
 Corey Reid  
 Mailing Address: 327 Mullins St  
 Post Office / City: Watertown State: NY Zip: 13601  
 Telephone: (315) 782-8130 Email: creid@thebcgroup.com

**5. Project / Facility Name**  
 Brown Shores Culvert Replacement Project  
 Property Tax Map Section / Block / Lot Number: 88.43-2-14.2, 88.43-2-32.2  
 Project Street Address, if applicable: Brown Shores Road  
 Post Office / City: Sackets Harbor State: NY Zip: 13685  
 Provide directions and distances to roads, intersections, bridges and bodies of water:  
 Located along Brown Shores Road and approximately +/-500FT NW of Ambrose Street.  
 Town  Village  City County: Jefferson Stream/Waterbody Name: Lake Ontario  
 Project Location Coordinates: Enter Latitude and Longitude in degrees, minutes, seconds:  
 Latitude: 43 ° 56 ' 12N " Longitude: 76 ° 08 ' 08W "

**6. Project Description:** Provide the following information about your project. Continue each response and provide any additional information on other pages. **Attach plans on separate pages.**

a. Purpose of the proposed project:  
 The purpose of this project is to replace an existing culvert that has been damaged. Recent flood events have impacted the condition of the culvert and adjacent shoreline. The new culvert will consist of an arched culvert and quarry stone headwall. In addition, large quarry stone boulders will be placed in the bay, a quarry stone wall will be placed adjacent to the roadway and the roadway will be raised.

b. Description of current site conditions:  
 An existing 36" CMP culvert that is approximately 50 LF is under sized for adequate flow from the watershed. Continuous weather events have damaged the culvert significantly.

c. Proposed site changes:  
 Site changes include the up-sizing of an existing culvert to an arched culvert that will be 10' wide and 3'-11.5" in height. The culvert will tie into a quarry stone headwall. Quarry stone will be placed along the beach frontage to create a impact wall for wave energy and reduce erosion. Also, quarry stone boulders will be placed in the bay to reduce wave energy. In addition, Brown Shores Road will be raised in this area.

d. Type of structures and fill materials to be installed, and quantity of materials to be used (e.g., square feet of coverage, cubic yards of fill material, structures below ordinary/mean high water, etc.):  
 The fill material above the existing ground surface and below the ordinary high water of 247.30 includes the following: quarry stone boulders, quarry stone wall and headwall and culvert. Quarry stone boulders located in the bay will account for a net fill material of approximately 55.5 CY.

e. Area of excavation or dredging, volume of material to be removed, location of dredged material placement:  
 The cut material above the existing ground surface and below the ordinary high water mark of 247.30 includes the following: quarry stone boulders, quarry stone wall, headwall and culvert. Excavation (cut) will account for a net cut material of approximately 186.50 CY. Refer to permit plans for dimensions. Any additional materials not used in construction will be relocated and disposed of off site.

f. Is tree cutting or clearing proposed?  Yes If Yes, explain below.  No  
 Timing of the proposed cutting or clearing (month/year): N/A  
 Number of trees to be cut: N/A Acreage of trees to be cleared: N/A

**g. Work methods and type of equipment to be used:**

It is anticipated that the project will start in the latter part of 2020 when the water level is generally at its lowest and impact to the environment are minimized. It is anticipated that heavy excavation equipment will be utilized. SWPPP best management practices will be implemented before and maintained throughout construction.

**h. Describe the planned sequence of activities:**

The existing roadway and culvert will be removed. Once the new culvert and roadway is replaced, restoration includes final grading vegetation reestablishment will occur. In addition to the culvert and roadway work, the large quarry stone boulders will be placed in the bay.

**i. Pollution control methods and other actions proposed to mitigate environmental impacts:**

Proposed erosion and sediment control practices include silt fencing, sequenced excavation and temporary restoration. This will help limit soil exposure and will reduce environmental impacts during construction. Construction will occur in the fall/winter months to limit disturbance to the existing marine environment.

**j. Erosion and silt control methods that will be used to prevent water quality impacts:**

Erosion and sediment control methods will be maintained around the culvert and shoreline. Temporary mulching and restoration practices will occur to reduce erosion and sedimentation. The contractor will install and maintain these measures throughout construction until final restoration. SWPPP best management practices will be implemented before and maintained throughout construction.

**k. Alternatives considered to avoid regulated areas. If no feasible alternatives exist, explain how the project will minimize impacts:**

One alternative would be to move the culvert location to avoid impact to wetlands but drainage from adjacent fields would be interrupted.

l. Proposed use:  Private  Public  Commercial

m. Proposed Start Date:  Estimated Completion Date:

n. Has work begun on project?  Yes If Yes, explain below.  No

Construction has not begun. The goal is to finish final design and begin construction as soon as possible.

o. Will project occupy Federal, State, or Municipal Land?  Yes If Yes, explain below.  No

The culvert is located in the Village of Sackets Harbor under Brown Shores Road.

**p. List any previous DEC, USACE, OGS or DOS Permit / Application numbers for activities at this location:**

USACE Processing No. 2019-00080 "Brown Shores Road Culvert"

**q. Will this project require additional Federal, State, or Local authorizations, including zoning changes?**

Yes If Yes, list below.  No

REDI Commission Approval includes DOT & DASNY, USACE, DEC, DOS

**7. Signatures.**

Applicant and Owner (If different) must sign the application. If the applicant is the landowner, the **landowner attestation form** can be used as an electronic signature as an alternative to the signature below, if necessary. Append additional pages of this Signature section if there are multiple Applicants, Owners or Contact/Agents.

I hereby affirm that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief.

Permission to Inspect - I hereby consent to Agency inspection of the project site and adjacent property areas. Agency staff may enter the property without notice between 7:00 am and 7:00 pm, Monday - Friday. Inspection may occur without the owner, applicant or agent present. If the property is posted with "keep out" signs or fenced with an unlocked gate, Agency staff may still enter the property. Agency staff may take measurements, analyze site physical characteristics, take soil and vegetation samples, sketch and photograph the site. I understand that failure to give this consent may result in denial of the permit(s) sought by this application.

False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the NYS Penal Law. Further, the applicant accepts full responsibility for all damage, direct or indirect, of whatever nature, and by whomever suffered, arising out of the project described herein and agrees to indemnify and save harmless the State from suits, actions, damages and costs of every name and description resulting from said project. In addition, Federal Law, 18 U.S.C., Section 1001 provides for a fine of not more than \$10,000 or imprisonment for not more than 5 years, or both where an applicant knowingly and willingly falsifies, conceals, or covers up a material fact; or knowingly makes or uses a false, fictitious or fraudulent statement.

**Signature of Applicant**

Date



8/11/20

Applicant Must be (check all that apply):  Owner  Operator  Lessee

Printed Name

Title

Eric Constance

Mayor

**Signature of Owner (If different than Applicant)**

Date

Printed Name

Title

**Signature of Contact / Agent**

Date

Printed Name

Title

**For Agency Use Only**

**DETERMINATION OF NO PERMIT REQUIRED**

Agency Application Number

(Agency Name) has determined that No Permit is required from this Agency for the project described in this application.

Agency Representative:

Printed Name

Title

Signature

Date

# VILLAGE OF SACKETS HARBOR BROWN SHORES ROAD CULVERT REPLACEMENT

VILLAGE OF SACKETS HARBOR - JEFFERSON COUNTY - STATE OF NEW YORK  
PROJECT NO. 2020-028

VILLAGE BOARD  
ERIC CONSTANCE - MAYOR  
BARBARA BOULTON - DEPUTY MAYOR  
DANIEL FRECHETTE - TRUSTEE  
JAMES BRAY - TRUSTEE  
PHILLIP FAY - TRUSTEE

## GENERAL NOTES

- PROPERTY OWNERS NOTED ARE REPUTED OWNERS TAKEN FROM AVAILABLE TAX RECORDS.
- PROPERTY LINES ARE LOCATED FROM AVAILABLE TAX MAPS ON FILE IN THE JEFFERSON COUNTY CLERKS OFFICE AND SHOULD BE CONSIDERED APPROXIMATE ONLY.
- ALL ELEVATIONS REFER TO NEW YORK STATE PLANE COORDINATE SYSTEM NAD 83.
- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE LOCATION OF WHICH IS PRESENTLY NOT KNOWN.
- OWNER SHALL CONFIRM LOCATIONS OF BOTH PUBLIC AND PRIVATE UTILITIES WITHIN THE CONSTRUCTION AREA PRIOR TO ANY EXCAVATION.
- NOTIFY DIG SAFELY NEW YORK TWO (2) WORKING DAYS PRIOR TO DIGGING, DRILLING, OR BLASTING AT 1-800-962-7962 FOR UTILITY STAKEOUT.
- WORK ZONE TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE MOST RECENT NYSOT STANDARD SPECIFICATIONS - SECTION 619 WORK ZONE TRAFFIC CONTROL AND THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS WITH THE NYSOT SUPPLEMENT.
- ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS WILL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT PRIOR TO CONSTRUCTION.
- THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING THE MEANS AND EQUIPMENT NECESSARY TO MAINTAIN SAFE EXCAVATIONS.
- IF FOUND TO BE NECESSARY, THE OWNER SHALL EMPLOY ROCK EXCAVATION MEANS AND PRACTICES WHICH PROTECT THE INTEGRITY OF EXISTING PUBLIC AND INDIVIDUAL WATER SUPPLY WELLS/FACILITIES/STRUCTURES.
- THE OWNER SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OF DIMENSIONS, ELEVATIONS AND LOCATIONS DURING PRE-CONSTRUCTION FIELD VERIFICATION BEFORE CONSTRUCTION BEGINS.
- EXCAVATION SPOILS SHALL BE SUITABLY DISPOSED OF BY THE OWNER. THE OWNER SHALL ABIDE BY ALL NYSDEC AND NYSDOH REGULATIONS AND STANDARDS.
- THE OWNER SHALL PROVIDE REQUIRED EROSION CONTROL MEASURES FOR THE DURATION OF THE PROJECT.
- BROWN SHORES ROAD SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
- ANY EXISTING FENCES, RETAINING WALLS, OUT-BUILDINGS, MAILBOXES, FLAG POLES, LAWN ORNAMENTS, ETC., REMOVED DURING CONSTRUCTION SHALL BE REPLACED AND/OR REPAIRED.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE HIGH VOLTAGE PROXIMITY ACT.

## MATERIAL SPECIFICATIONS AND MISCELLANEOUS NOTES

- STEEL STRUCTURAL PLATE CULVERT, HEADWALLS, WING WALLS, & ALL APPURTENANCES SHALL BE AS DESIGNED, MANUFACTURED, AND SUPPLIED BY LANE ENTERPRISES, OR APPROVED EQUAL. CULVERT SHALL BE BC-A-56 WITH AN INSIDE SPAN OF 10' AND INSIDE RISE OF 3'-11.5". THE CULVERT SYSTEM SHALL BE DESIGNED FOR THE INDICATED MINIMUM AND MAXIMUM BACKFILL COVER USING A UNIT WEIGHT OF 140 PCF, AS WELL AS AN HL93 LIVE LOAD. A LEVEL 1 LOAD RATING WILL BE REQUIRED & SHALL BE IN ACCORDANCE WITH NYSOT STANDARDS. SEE ATTACHED TECHNICAL SPECIFICATIONS FOR CULVERT PRODUCT.
- ALL CONCRETE, PRECAST OR CAST IN PLACE, SHALL MEET THE FOLLOWING REQUIREMENTS:
  - MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI
  - SUMP OF 3" (±1)
  - MAXIMUM WATER / CEMENTITIOUS MATERIAL RATIO OF 0.42
  - AIR CONTENT OF 6% (±1.5%)
- REBAR SHALL BE GRADE 60 DEFORMED BARS BENT, HANDLED, AND PLACED IN ACCORDANCE WITH ACI 318.
- NON-WOVEN GEOTEXTILE FABRIC SHALL BE MIRAFI 140N, OR APPROVED EQUAL. WOVEN GEOTEXTILE SHALL BE MIRAFI 500X, OR APPROVED EQUAL.
- MISCELLANEOUS METAL PLATES SHALL BE ASTM A36, HOT DIP GALVANIZED TO ASTM A123 REQUIREMENTS WITH A MINIMUM OF 1.7oz/sf.
- NON-SHRINK GROUT SHALL BE ASTM C1107 GRADE A, B, OR C AND AS MANUFACTURED BY FIVE STAR GROUT, OR APPROVED EQUAL. MINIMUM 7-DAY AND 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI AND 7,500 PSI RESPECTIVELY.
- REFERENCE NYSOT 606-04 STANDARD SHEETS FOR ANY NEW GUIDE RAILING TO BE INSTALLED.
- REFERENCE NYSOT STANDARD SPECIFICATION SECTION 733-21 FOR LIGHT STONE FILLING GRADATION REQUIREMENTS. REFERENCE NYSOT STANDARD SPECIFICATION SECTION 733-04 FOR TYPE 4 BACKFILL AND AGGREGATE BASE COURSE GRADATION REQUIREMENTS. REFERENCE NYSOT STANDARD SPECIFICATION SECTION 703-02 FOR NO. 1 AND NO. 2 CRUSHED STONE GRADATION REQUIREMENTS.
- TYPE 4 STONE SHALL BE COMPACTED IN 6" MAXIMUM LIFTS TO 95% MAXIMUM DRY DENSITY. NO. 1 AND NO. 2 STONE SHALL BE TAMPED IN 8" MAXIMUM LIFTS.
- BITUMINOUS ASPHALT BASE, BINDER, AND TOP COURSE MATERIAL AND INSTALLATION SHALL BE AS DIRECTED BY THE VILLAGE OF SACKETS HARBOR HIGHWAY DEPARTMENT.

## NYSDEC SPECIAL CONDITIONS

- DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO THE WATERS OF NEW YORK STATE, NOR SHALL WASHINGS FROM RED-MIX TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLAND OR WATERS.
- USE OF TIMBERS (WOOD) TREATED WITH PENTACHLOROPHENOL OR WITH CREOSOTE (AND RELATED OIL BASE TRANSPORT PRESERVATIVES) IS STRICTLY PROHIBITED.
- ANY DEBRIS OR EXCESS MATERIAL FROM CONSTRUCTION OF THIS PROJECT SHALL BE IMMEDIATELY AND COMPLETELY REMOVED FROM THE BED AND BANKS OF ALL STREAM AREAS TO AN UPLAND DISPOSAL AREA.
- ALL DREDGED AND EXCAVATED MATERIAL SHALL BE DISPOSED OF ON AN UPLAND SITE AND BE SUITABLY STABILIZED SO THAT IT CANNOT REENTER ANY WATER BODY OR WETLAND AREA.
- SILT FENCE OR OTHER EQUIVALENT PRACTICES FROM THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", DATED JULY 2016, SHALL BE USED ON THE DOWN SLOPE EDGE OF ANY DISTURBANCE ADJACENT TO A WATER COURSE. THIS BARRIER TO SEDIMENTS IS TO BE PUT IN PLACE BEFORE ANY DISTURBANCE OF THE GROUND OCCURS AND IS TO BE MAINTAINED IN GOOD CONDITION UNTIL ALL DISTURBED LAND IS HEAVILY VEGETATED.
- EXCAVATED TOPSOIL MAY BE SEPARATED FROM SUBSOIL AND STOCKPILED. THE TOPSOIL, IF APPROVED BY ENGINEER, IS TO BE USED AS FINAL SOIL COVER DURING SITE GRADING OPERATIONS.
- THE WORK SHALL BE GRADED TO MATCH AS UNIFORMLY AS POSSIBLE THE ELEVATION AND CONTOURS OF THE UNDISTURBED LAND IMMEDIATELY ADJACENT TO THE WORK AREA.
- ALL AREAS OF SOIL DISTURBANCE RESULTING FROM THIS PROJECT SHALL BE PROTECTED FROM EROSION FROM THE TIME OF INITIAL DISTURBANCE. DISTURBED AREAS SHALL BE SEEDED WITH AN APPROVED GRASS SEED AND MULCHED WITH STRAW WITHIN ONE WEEK OF FINAL GRADING. MULCH SHALL BE MAINTAINED UNTIL A SUITABLE VEGETATIVE COVER HAS BEEN ESTABLISHED.
- IF SEEDING IS IMPRACTICAL DUE TO THE TIME OF YEAR, A TEMPORARY MULCH SHALL BE APPLIED AND MAINTAINED AND FINAL SEEDING SHALL BE PERFORMED DURING THE FIRST PERIOD AFTER PROJECT COMPLETION WHEN WEATHER CONDITIONS FAVOR GERMINATION AND GROWTH.
- IMMEDIATELY FOLLOWING PROJECT COMPLETION, ANY AREAS OF EXCAVATION AT ENTRY AND EXIT POINTS TO A STREAM SHALL BE RESTORED TO THEIR NATURAL CONDITION AND STABILIZED BY SEEDING AND MULCHING OR BY PLACEMENT OF NATURAL STONE RIPRAP.
- ANY IN STREAM (RIVER BED AND BANKS) WORK REQUIRED FOR THE CROSSING OF THE RIVER OR STREAM SHALL BE ACCOMPLISHED IN ACCORDANCE WITH NYSDEC REQUIREMENTS.
- DURING PERIODS OF WORK ACTIVITY, FLOW PAST THE SITE WILL EQUAL FLOW IMMEDIATELY UPSTREAM OF THE SITE UNLESS SPECIFICALLY PERMITTED OTHERWISE.
- ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRECLUDE THE CONTAMINATION OF ANY RIVER OR WATERWAY BY SUSPENDED SOLIDS, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, PAINTS, CONCRETE, LEACHATE OR ANY OTHER ENVIRONMENTALLY DELETERIOUS SUBSTANCE ASSOCIATED WITH THE PROJECT. OWNER SHALL SUBMIT EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL AND COMPLY WITH ALL NYSDEC AND U.S. ARMY CORP. OF ENGINEERS PERMIT CONDITIONS.
- NO GARBAGE, LOOSE PAPERS OR TOXIC OR HAZARDOUS MATERIALS SHALL BE USED AS FILL.
- OWNER SHALL COMPLY WITH NYSDEC STORMWATER GENERAL PERMIT, ARTICLE 15 PROTECTION OF WATERS, AND ARTICLE 24 FRESHWATER WETLANDS REQUIREMENTS. THESE REQUIREMENTS SHALL HAVE PRIORITY, IF IN CONFLICT WITH ABOVE NOTES 1-15.



## LEGEND

	DE-WATERING PUMP
	SUPERSACK COFFERDAM
	SILT FENCE
	SAND BAG COFFERDAM
	ROADWAY MARGIN
	PROPERTY LINE
	PAVED ROAD/PAVED DRIVE
	UNPAVED ROAD/UNPAVED DRIVE
	GUIDE RAIL
	EDGE OF NEW PAVEMENT
	OVERHEAD ELECTRIC
	WATER MAIN
	WATER VALVE
	CENTERLINE
	FREESTANDING WALL
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED CONTOUR
	TOP & BOT. OF CONC. ELEVATION
	PROPOSED INVERT ELEVATION
	FENCE
	WATER EDGE
	POWER POLE
	SINGLE POST SIGN
	TWO POST SIGN
	CULVERT
	DECIDUOUS TREE

## INDEX OF DRAWINGS

- C-0 COVER
- C-1 EXISTING SITE PLAN AND CROSS SECTION
- C-2 EROSION CONTROL PLAN
- C-3 PROPOSED SITE PLAN [SHEET 1 OF 5]
- C-4 PROPOSED SITE PLAN [SHEET 2 OF 5]
- C-5 PROPOSED SITE PLAN [SHEET 3 OF 5]
- C-6 PROPOSED SITE PLAN [SHEET 4 OF 5]
- C-7 PROPOSED SITE PLAN [SHEET 5 OF 5]
- C-8 BROWN SHORES ROAD PROFILE
- C-9 CULVERT PROFILE & SHORELINE CROSS SECTIONS
- D-1 SITE DETAILS [SHEET 1 OF 4]
- D-2 SITE DETAILS [SHEET 2 OF 4]
- D-3 SITE DETAILS (CULVERT/HEADWALL) [SHEET 3 OF 4]
- D-4 SITE DETAILS (BACKFILL) [SHEET 4 OF 4]

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ARCHITECTS

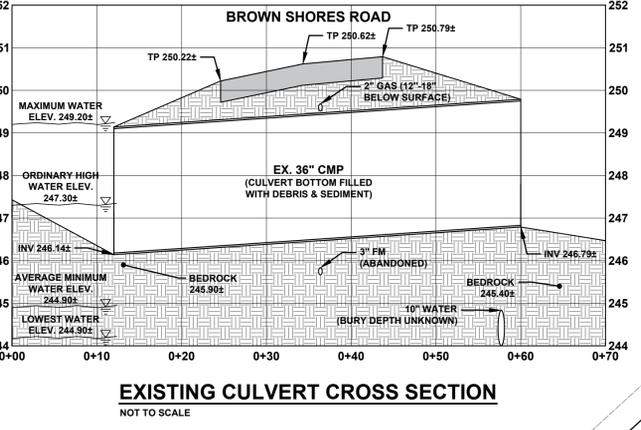
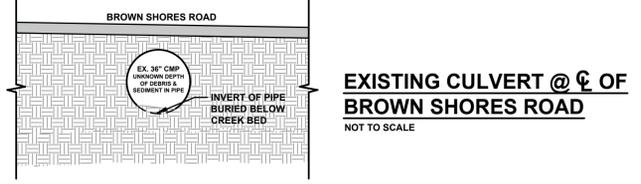
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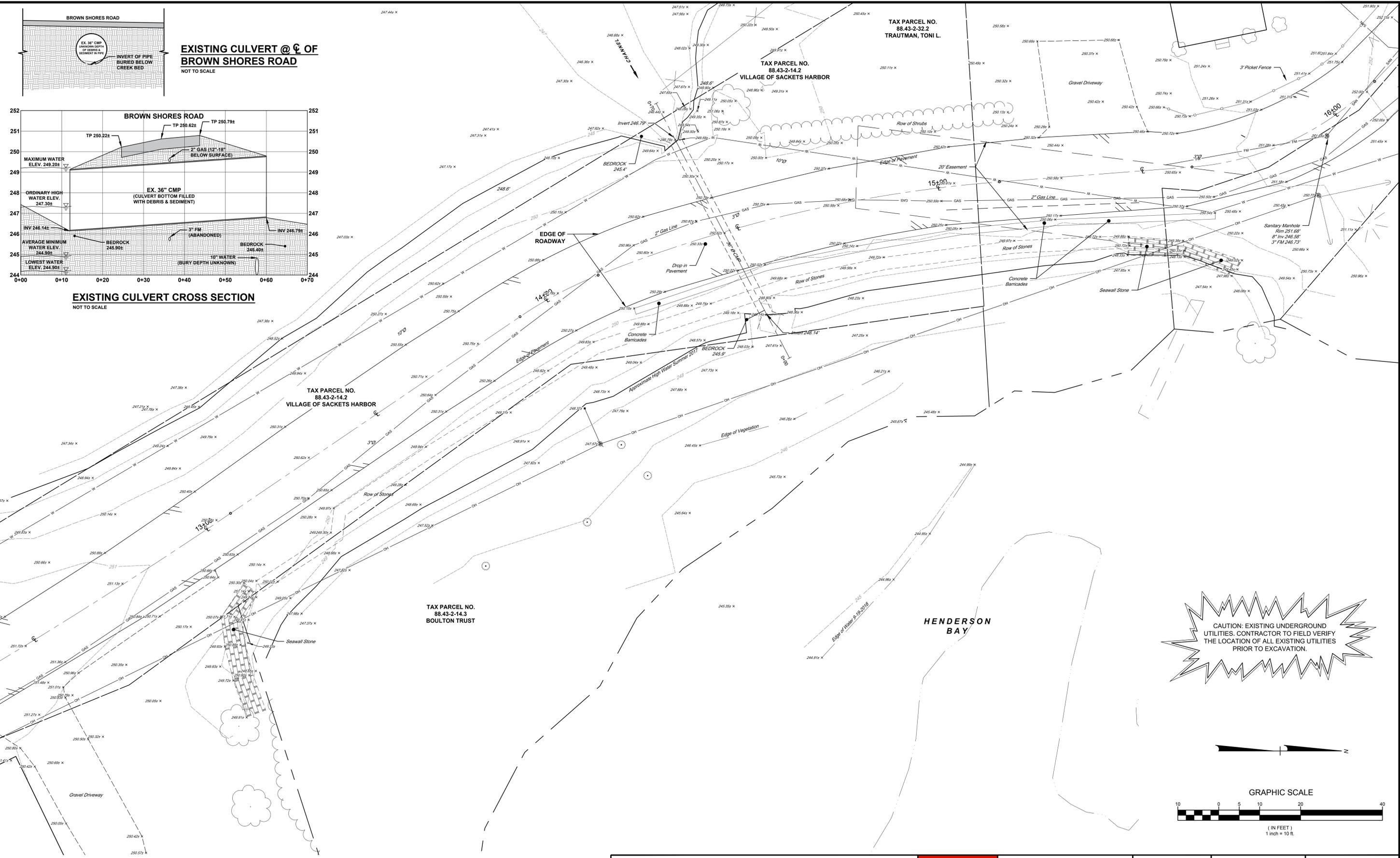
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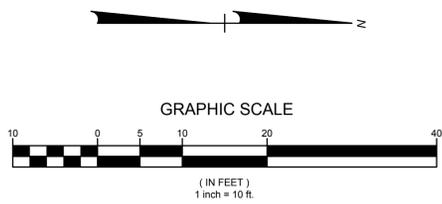
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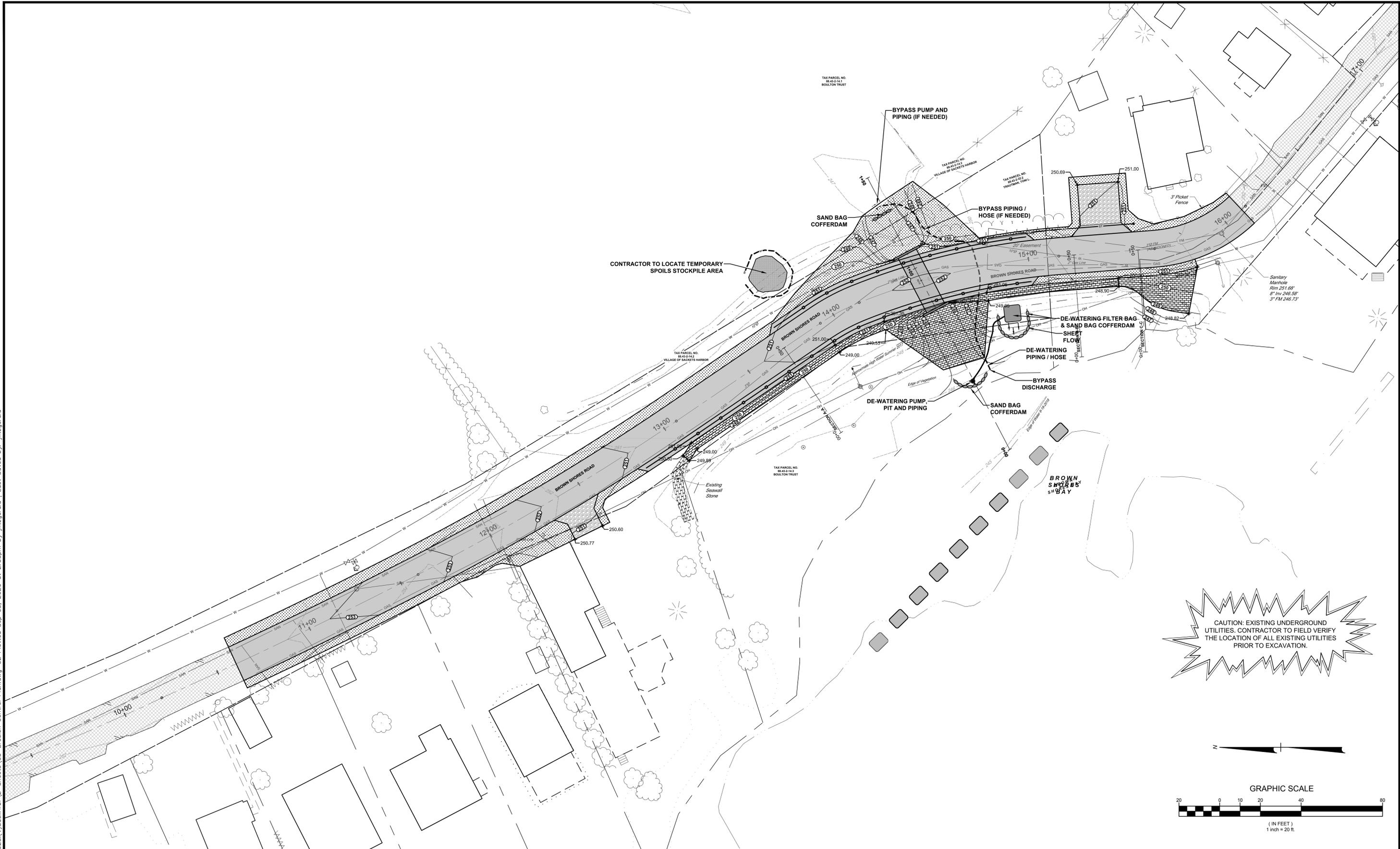


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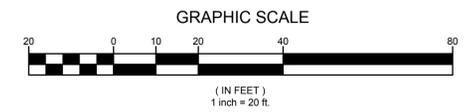


<b>EXISTING SITE PLAN &amp; CROSS SECTION</b> <b>VILLAGE OF SACKETS HARBOR</b> <b>BROWN SHORES ROAD</b> <b>CULVERT REPLACEMENT</b> VILLAGE OF SACKETS HARBOR - JEFFERSON COUNTY - STATE OF NEW YORK			Bernier, Carr & Associates, Engineers, Architects and Land Surveyors, P.C. 327 Mullin Street, Watertown, NY 13601 (315) 782-8130 - WWW.THEBCGROUP.COM		<b>REVIEW SET</b> <b>NOT FOR CONSTRUCTION</b>	CHECKED BY: JLF DRAWN BY: JLF DATE: 10/12/18 LAST REVISION: 10/12/18 SCALE: AS SHOWN PRINTED FOR: REVIEW	SHEET NO. <b>C1</b> PROJECT NO. 2020-028
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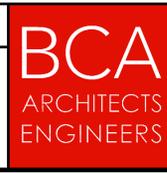
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**EROSION CONTROL PLAN**  
**VILLAGE OF SACKETS HARBOR**  
**BROWN SHORES ROAD**  
**CULVERT REPLACEMENT**  
 VILLAGE OF SACKETS HARBOR - JEFFERSON COUNTY - STATE OF NEW YORK



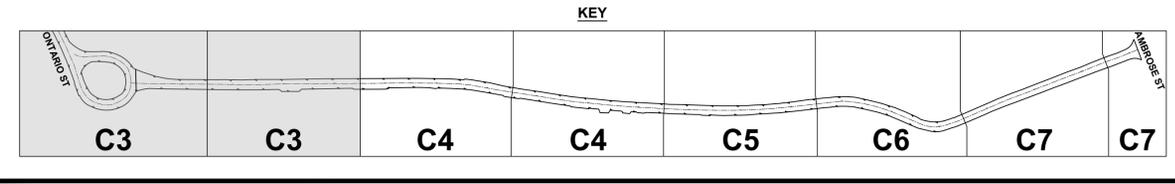
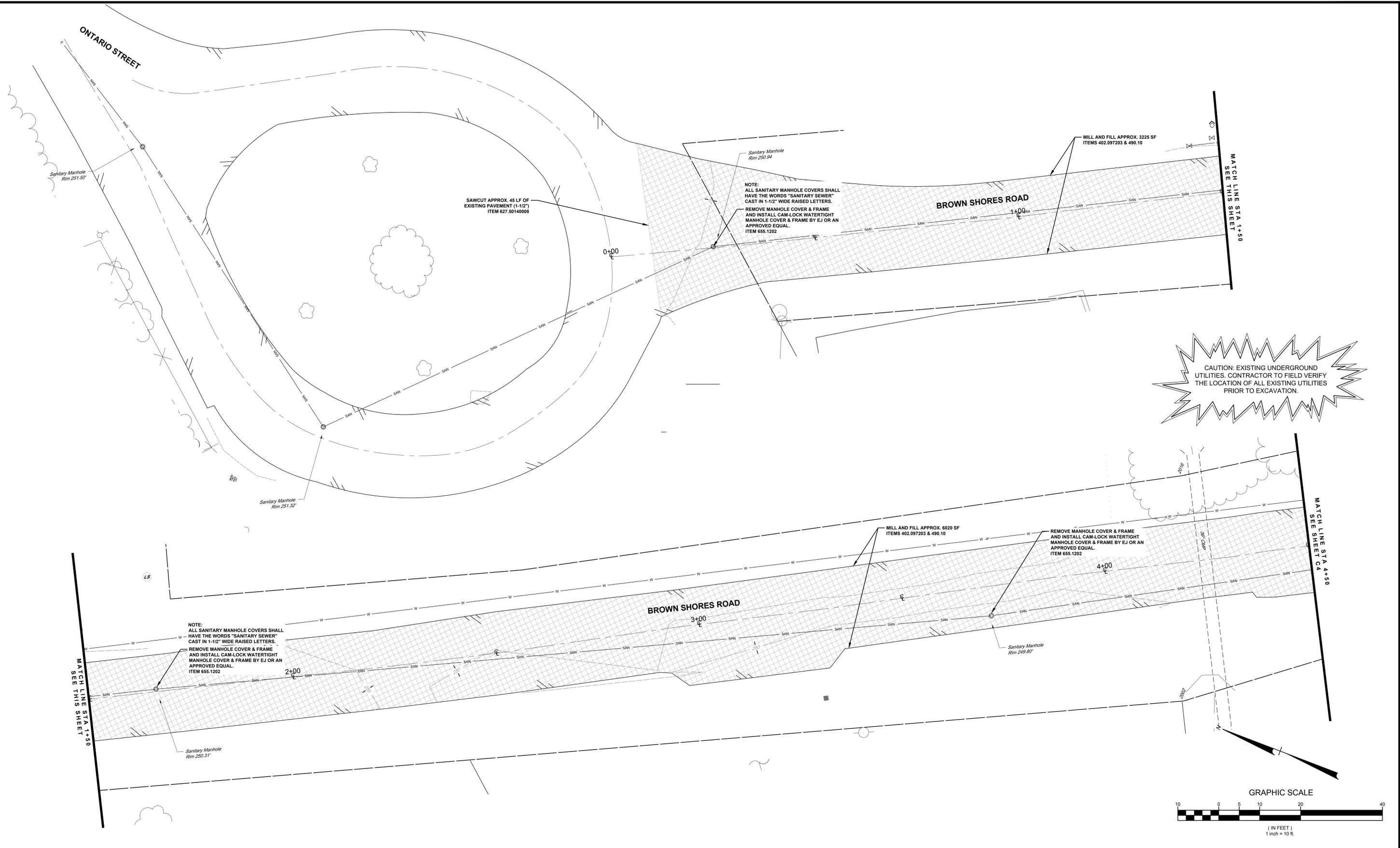
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**2020-028**

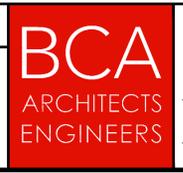
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PROPOSED SITE PLAN [SHEET 1 OF 5]

VILLAGE OF SACKETS HARBOR  
BROWN SHORES ROAD  
CULVERT REPLACEMENT

VILLAGE OF SACKETS HARBOR - JEFFERSON COUNTY - STATE OF NEW YORK



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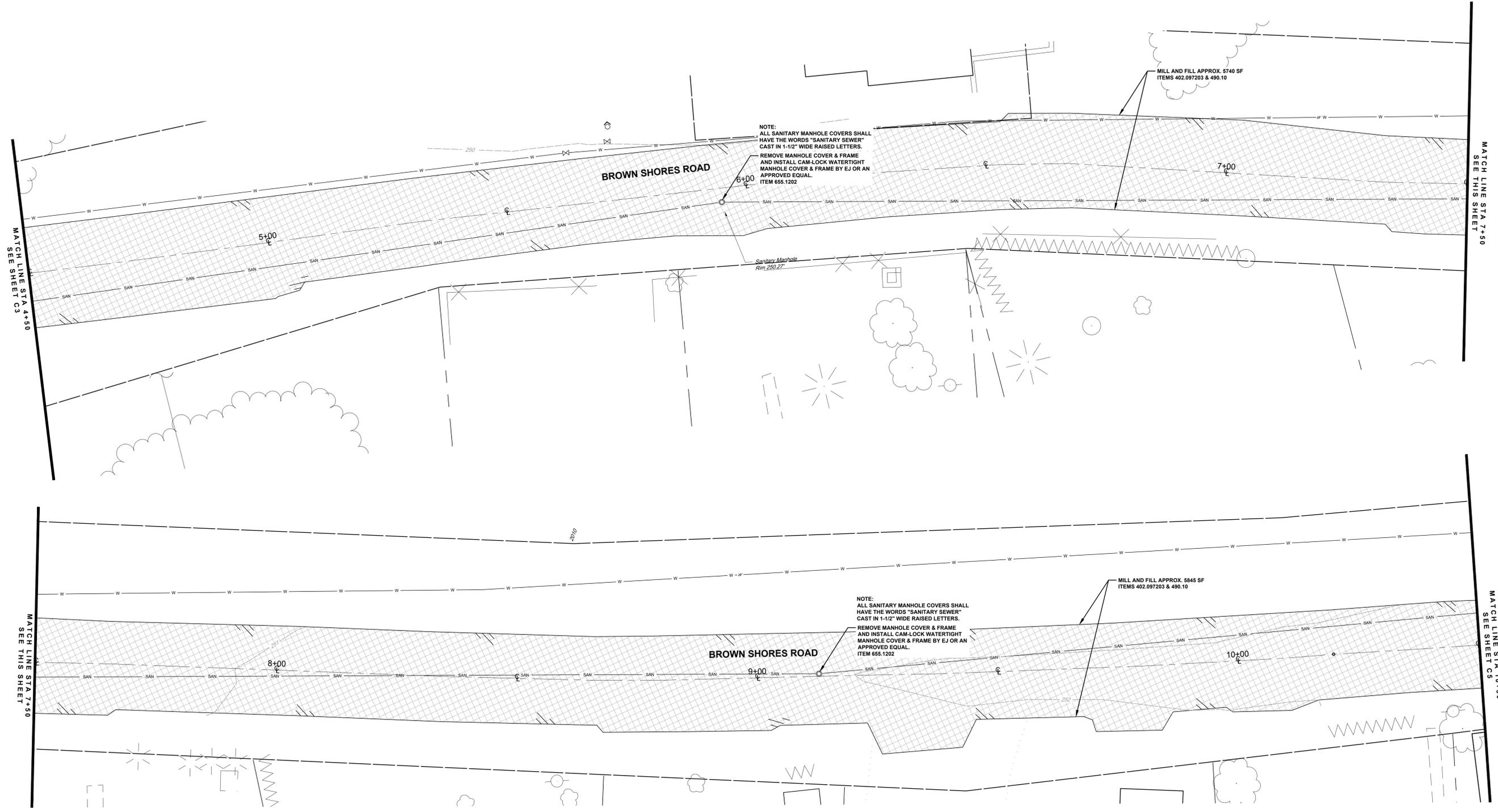
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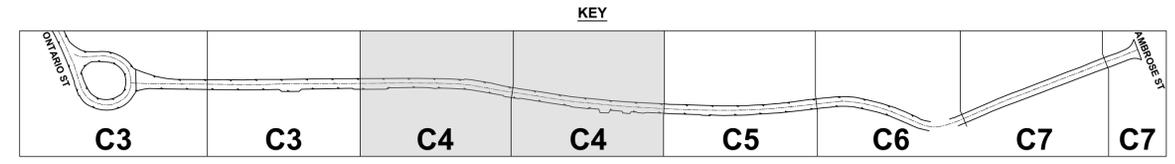
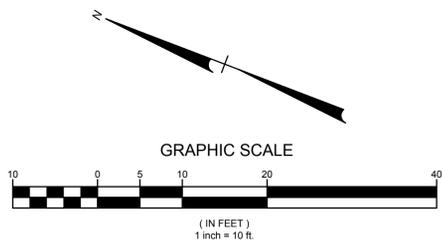
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PROJECT NO.  
2020-028

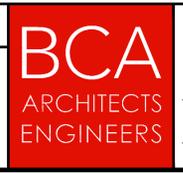
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PROPOSED SITE PLAN [SHEET 2 OF 5]  
VILLAGE OF SACKETS HARBOR  
BROWN SHORES ROAD  
CULVERT REPLACEMENT  
VILLAGE OF SACKETS HARBOR - JEFFERSON COUNTY - STATE OF NEW YORK

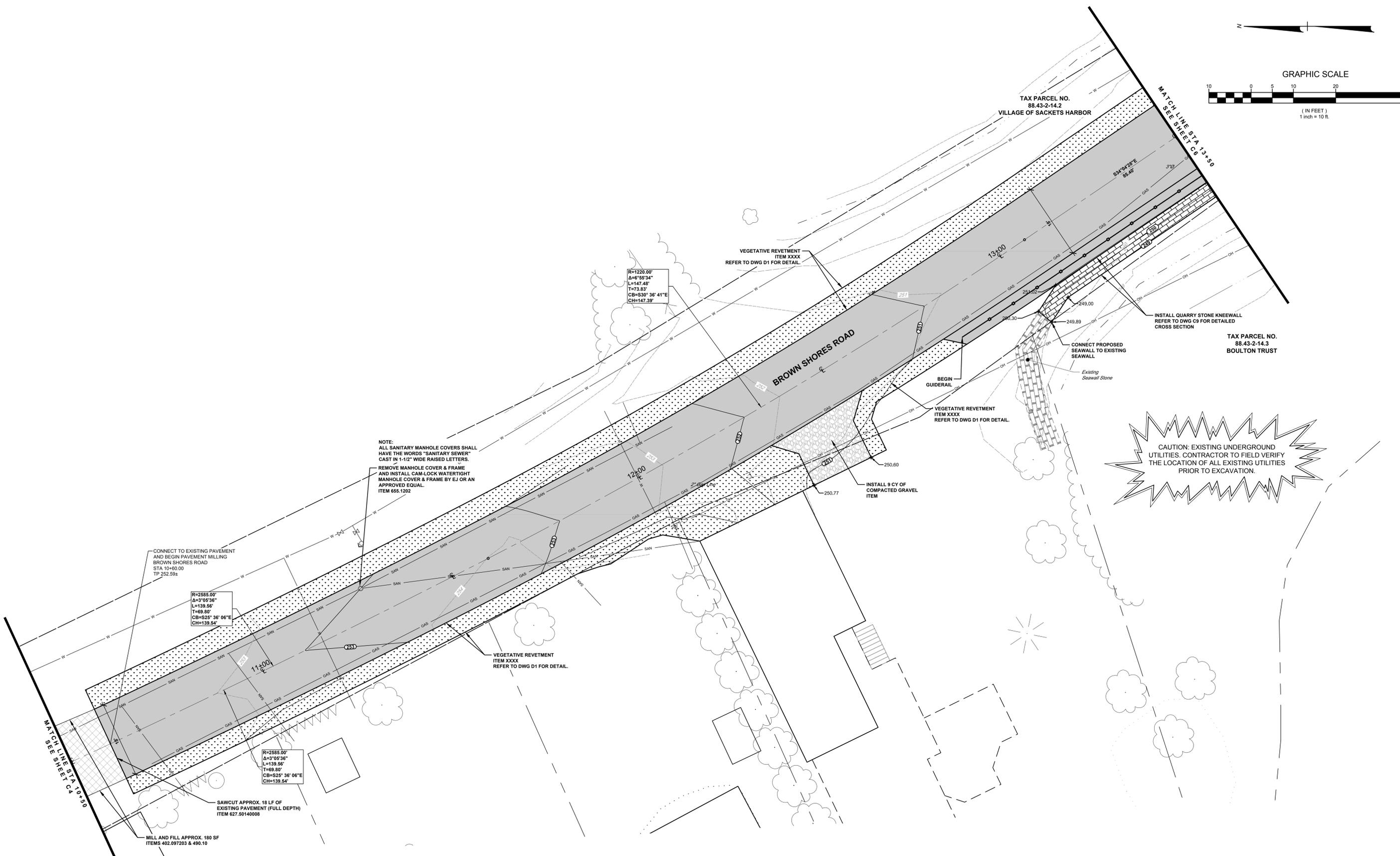
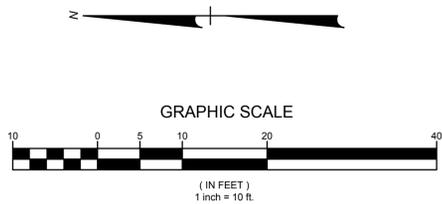


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SHEET NO.  
**C4**  
PROJECT NO.  
2020-028



NOTE:  
ALL SANITARY MANHOLE COVERS SHALL  
HAVE THE WORDS "SANITARY SEWER"  
CAST IN 1-1/2" WIDE RAISED LETTERS.  
REMOVE MANHOLE COVER & FRAME  
AND INSTALL CAM-LOCK WATERTIGHT  
MANHOLE COVER & FRAME BY EJ OR AN  
APPROVED EQUAL.  
ITEM 655.1202

CONNECT TO EXISTING PAVEMENT  
AND BEGIN PAVEMENT MILLING  
BROWN SHORES ROAD  
STA 10+60.00  
TP 252.59e

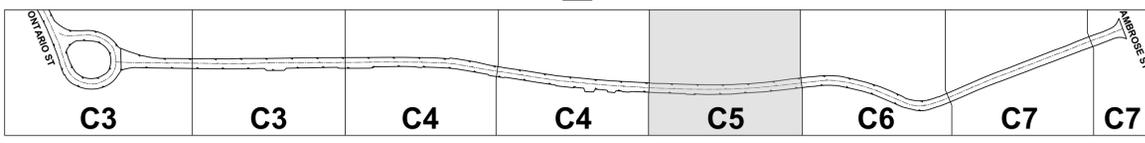
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Δ=3°05'36"  
L=139.56'  
T=69.80'  
CB=525' 36" 06"E  
CH=139.54'

R=1220.00'  
Δ=0°55'34"  
L=147.48'  
T=73.83'  
CB=330' 36" 41"E  
CH=147.39'

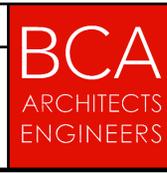
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Δ=3°05'36"  
L=139.56'  
T=69.80'  
CB=525' 36" 06"E  
CH=139.54'

SAWCUT APPROX. 18 LF OF  
EXISTING PAVEMENT (FULL DEPTH)  
ITEM 627.50140008  
  
MILL AND FILL APPROX. 180 SF  
ITEMS 402.097203 & 490.10

KEY



PROPOSED SITE PLAN [SHEET 3 OF 5]  
VILLAGE OF SACKETS HARBOR  
BROWN SHORES ROAD  
CULVERT REPLACEMENT  
VILLAGE OF SACKETS HARBOR - JEFFERSON COUNTY - STATE OF NEW YORK



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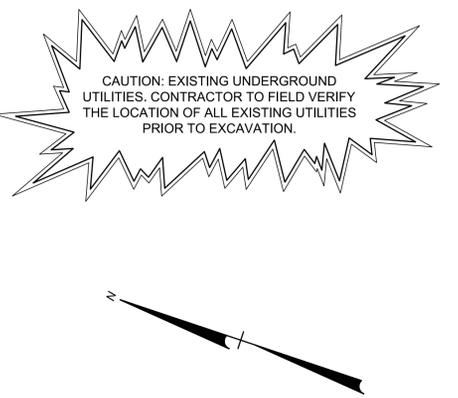
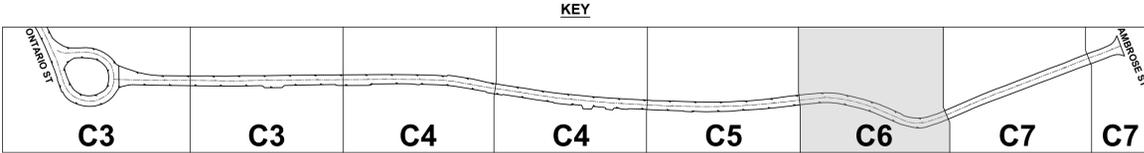
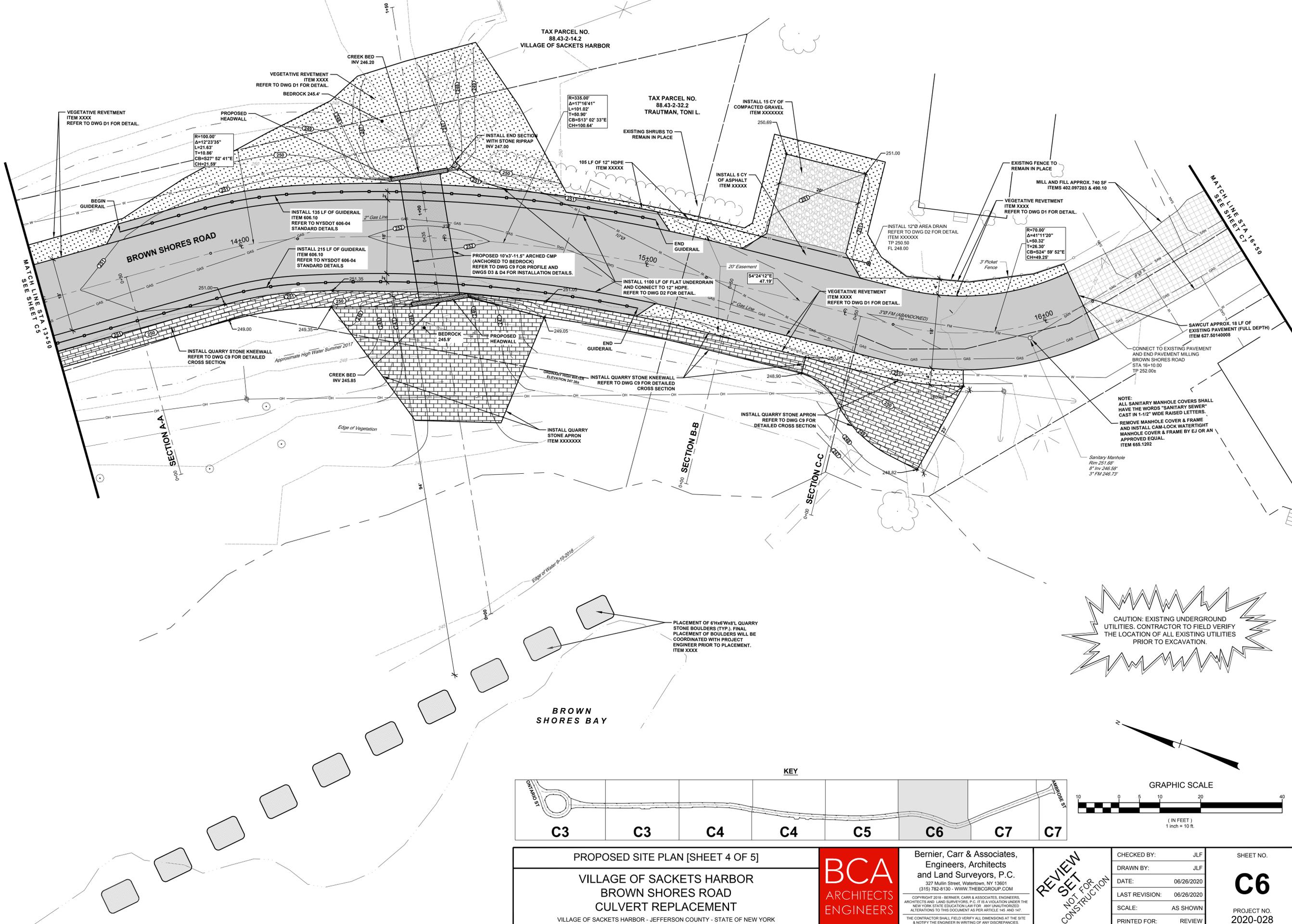
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**C5**  
PROJECT NO.  
2020-028

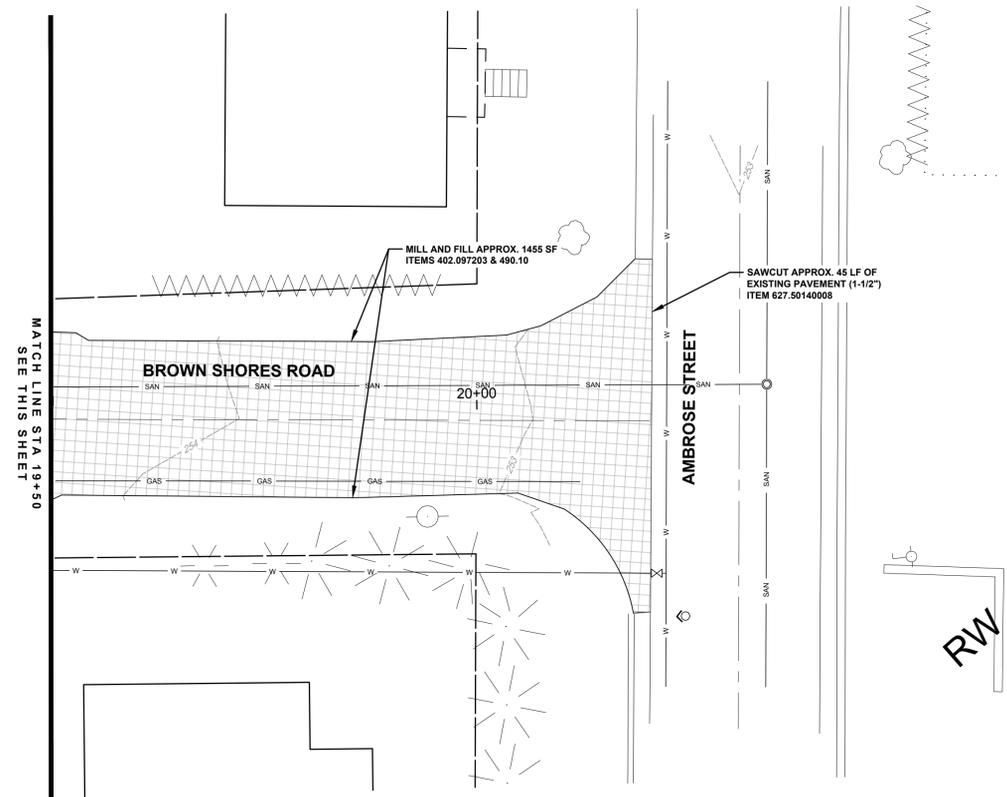
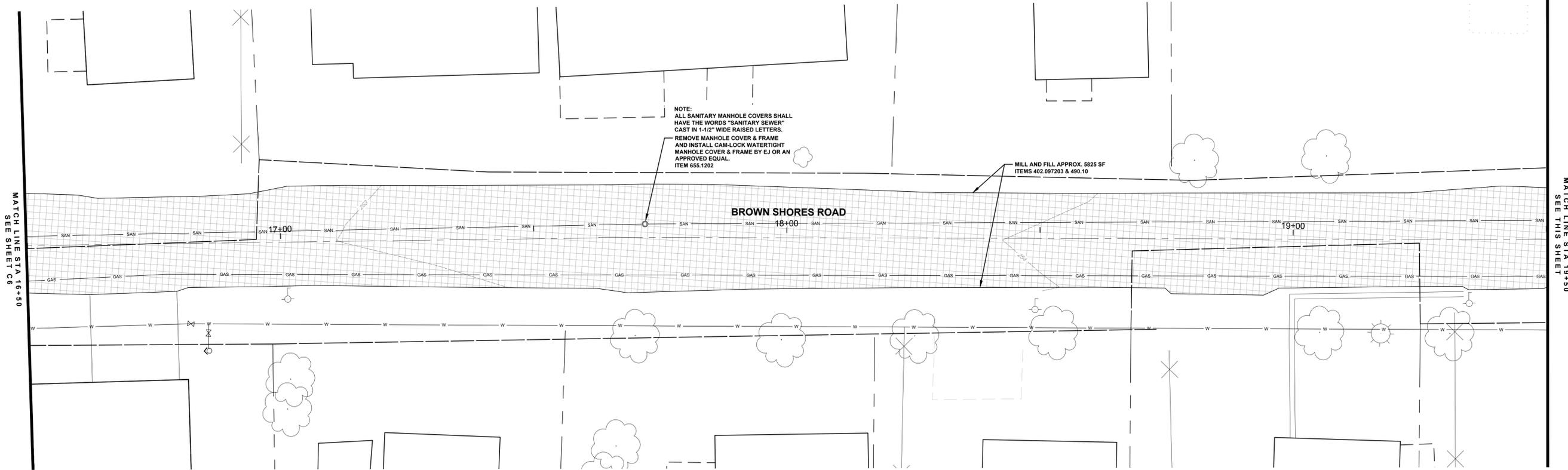
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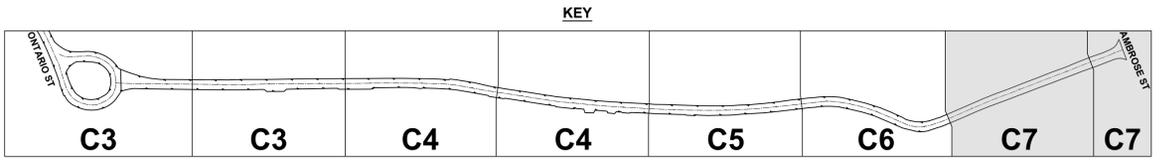
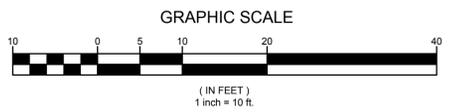


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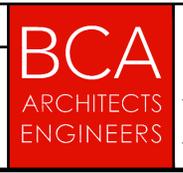
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PROPOSED SITE PLAN [SHEET 5 OF 5]

**VILLAGE OF SACKETS HARBOR  
 BROWN SHORES ROAD  
 CULVERT REPLACEMENT**

VILLAGE OF SACKETS HARBOR - JEFFERSON COUNTY - STATE OF NEW YORK



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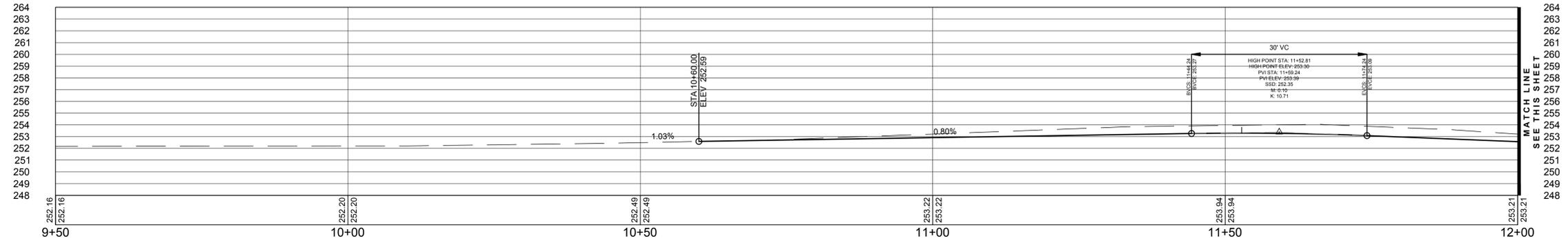
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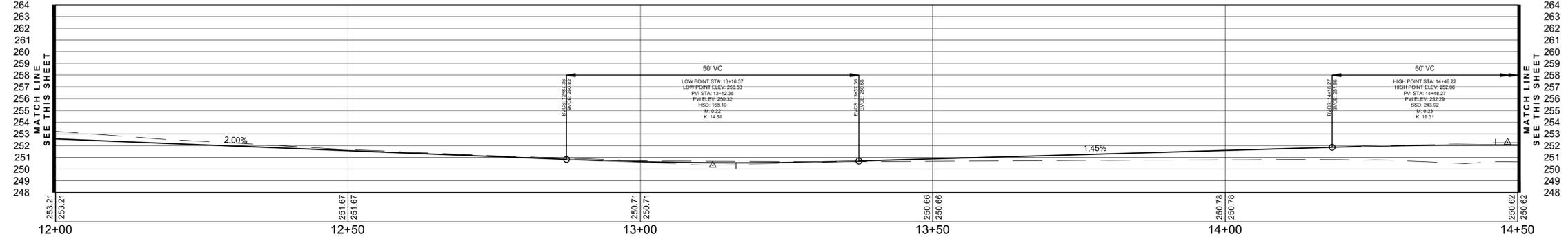
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**C7**  
 PROJECT NO.  
 2020-028

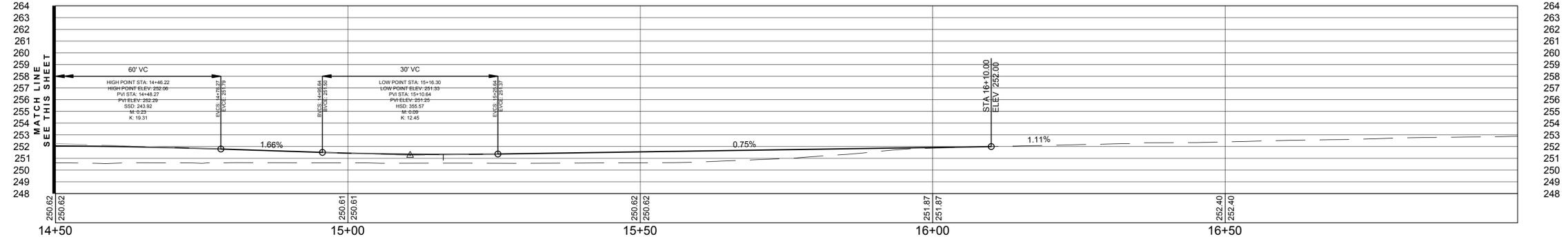
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BROWN SHORES ROAD  
H: 1"=10'  
V: 1"=5'



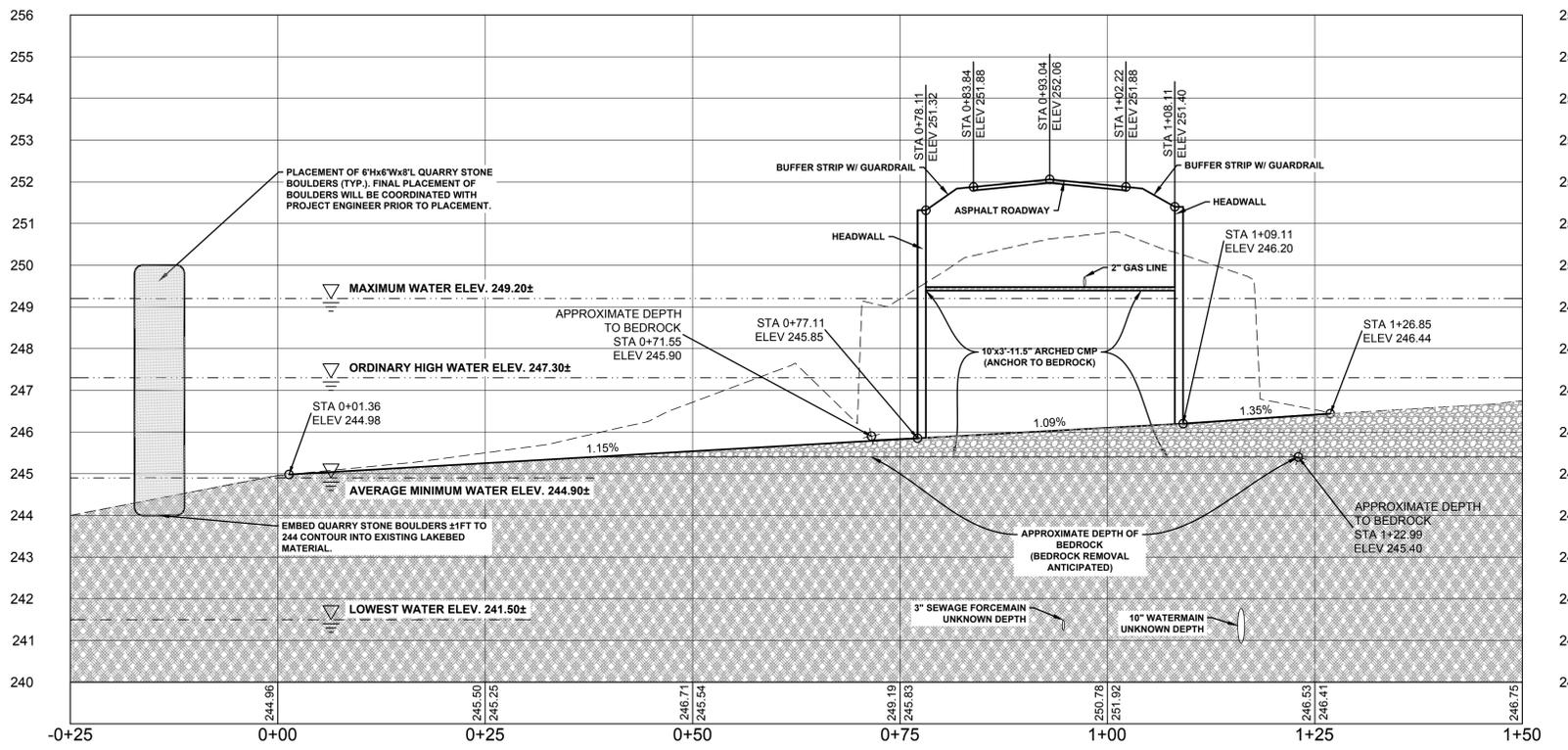
BROWN SHORES ROAD  
H: 1"=10'  
V: 1"=5'



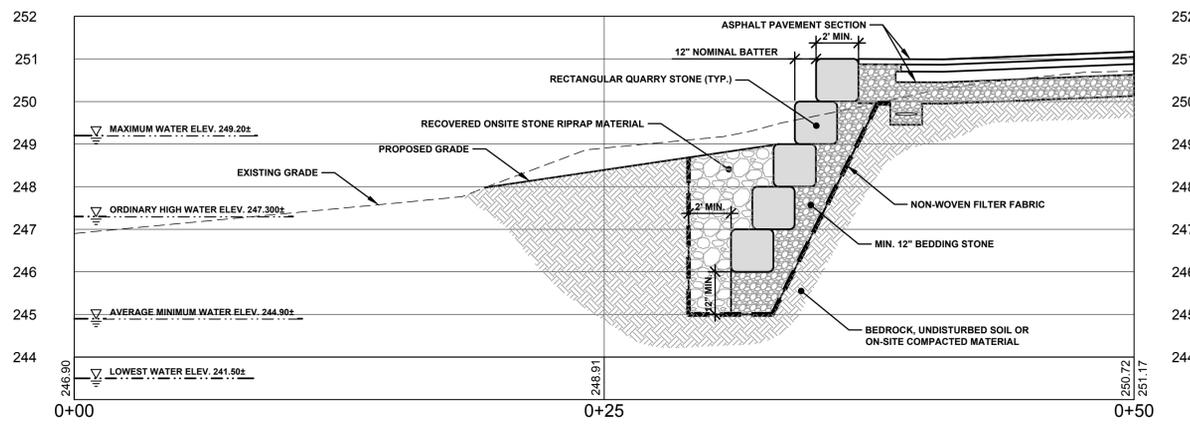
BROWN SHORES ROAD  
H: 1"=10'  
V: 1"=5'

<b>BROWN SHORES ROAD PROFILE</b> <b>VILLAGE OF SACKETS HARBOR</b> <b>BROWN SHORES ROAD</b> <b>CULVERT REPLACEMENT</b> <small>VILLAGE OF SACKETS HARBOR - JEFFERSON COUNTY - STATE OF NEW YORK</small>			Bernier, Carr & Associates, Engineers, Architects and Land Surveyors, P.C. <small>327 Mullin Street, Watertown, NY 13601                  (315) 782-8130 - WWW.THEBCGROUP.COM</small>	<b>REVIEW SET</b> NOT FOR CONSTRUCTION	CHECKED BY: JLF	SHEET NO. <b>C8</b>
					DRAWN BY: JLF	DATE: 06/26/2020
			<small>COPYRIGHT 2018 - BERNIER, CARR &amp; ASSOCIATES, ENGINEERS, ARCHITECTS AND LAND SURVEYORS, P.C. IT IS A VIOLATION UNDER THE NEW YORK STATE EDUCATION LAW FOR ANY UNAUTHORIZED ALTERATIONS TO THIS DOCUMENT AS PER ARTICLE 145 AND 147. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE &amp; NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES.</small>		LAST REVISION: 06/26/2020	
					SCALE: AS SHOWN	
					PRINTED FOR: REVIEW	

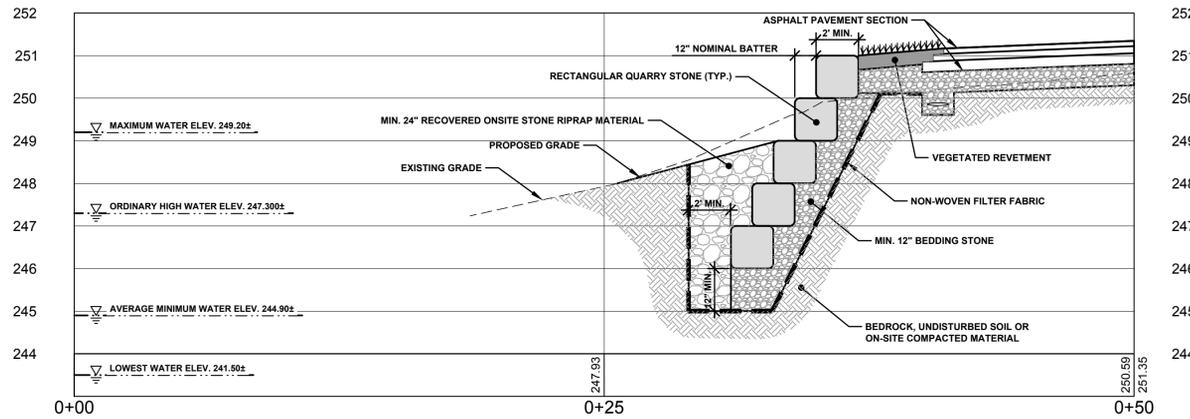
P:\2020 projects\2020-028 (V)\SackHbr\2-Sheets\C2-Proposed Site Plan.dwg-C8 Plotted Sep 03, 2020 at 2:36pm by jftzgerald | Last Saved by: jftzgerald



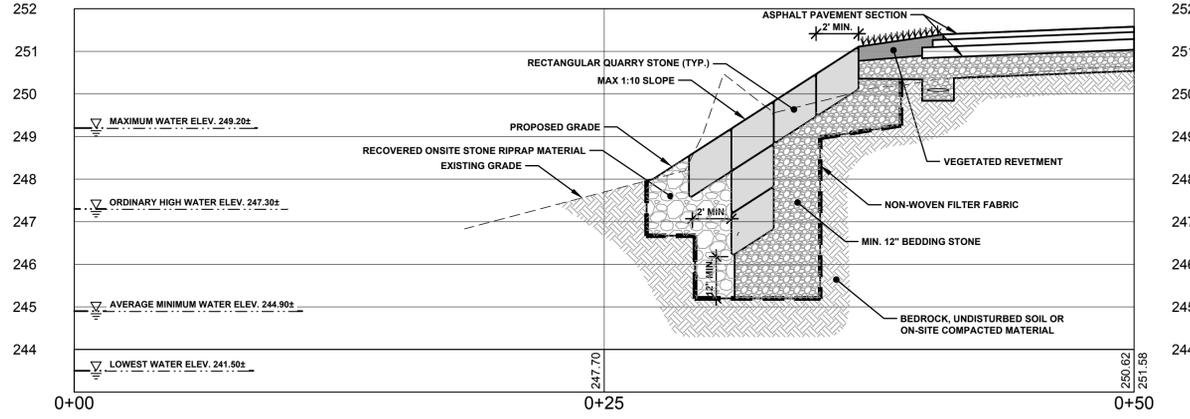
Culvert A  
H: 1"=10'  
V: 1"=2'



SECTION A-A  
N.T.S.



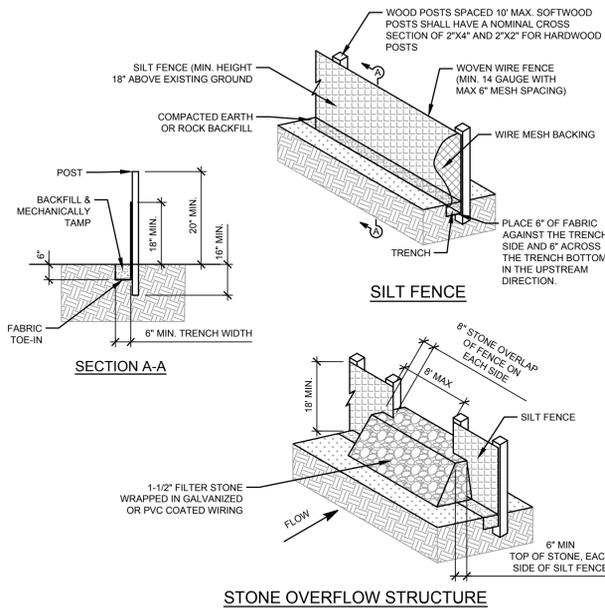
SECTION B-B  
N.T.S.



SECTION C-C  
N.T.S.

<b>CULVERT PROFILE &amp; SHORELINE CROSS SECTIONS</b> <b>VILLAGE OF SACKETS HARBOR</b> <b>BROWN SHORES ROAD</b> <b>CULVERT REPLACEMENT</b> VILLAGE OF SACKETS HARBOR - JEFFERSON COUNTY - STATE OF NEW YORK			Bernier, Carr & Associates, Engineers, Architects and Land Surveyors, P.C. 327 Mullin Street, Watertown, NY 13601 (315) 782-8130 - WWW.THEBCGROUP.COM <small>COPYRIGHT 2018 - BERNIER, CARR &amp; ASSOCIATES, ENGINEERS, ARCHITECTS AND LAND SURVEYORS, P.C. IT IS A VIOLATION UNDER THE NEW YORK STATE EDUCATION LAW FOR ANY UNAUTHORIZED ALTERATIONS TO THIS DOCUMENT AS PER ARTICLE 145 AND 147. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE &amp; NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES.</small>	<b>REVIEW SET</b> NOT FOR CONSTRUCTION	CHECKED BY: JLF DRAWN BY: JLF DATE: 06/26/2020 LAST REVISION: 06/26/2020 SCALE: AS SHOWN PRINTED FOR: REVIEW	SHEET NO. <b>C9</b> PROJECT NO. 2020-028

ITEM	DESCRIPTION	UNIT
209.13	SILT FENCE - TEMPORARY	FT

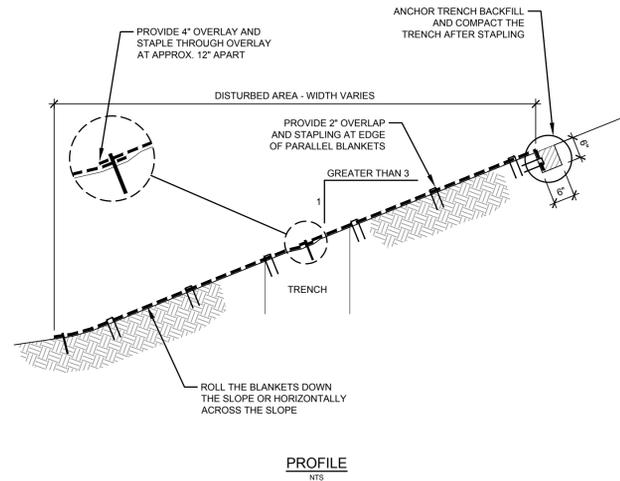


**NOTES**

- SILT FENCE SHALL BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF.
- THE LAST 10 FEET (OR MORE) AT THE END OF A LINE OF SILT FENCE SHALL BE TURNED UPSLOPE TO PREVENT BYPASS OF STORMWATER.
- OVERFLOW STRUCTURES ARE REQUIRED AT ALL LOW POINTS AND AT A SPACING OF APPROXIMATELY 300 FEET WHERE NO LOW POINT IS APPARENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINAGE ON AND OFF OF ADJOINING PROPERTIES.
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAX MESH SPACING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPING BY 6" AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N OR AN APPROVED EQUAL.

**SILT FENCE 01**

ITEM	DESCRIPTION	UNIT
209.1801	ROLLED EROSION CONTROL PRODUCT, CLASS I TYPE A, SHORT TERM	SY

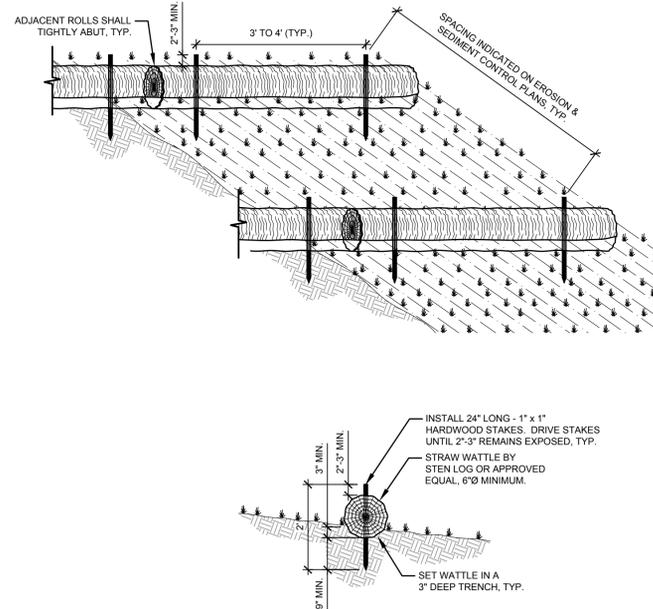


**NOTES**

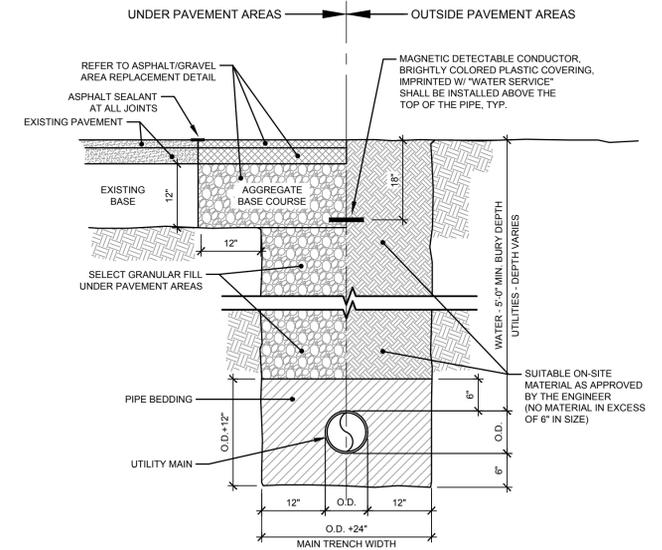
- EROSION CONTROL BLANKET SHALL BE MODEL S150 BY NORTH AMERICAN GREEN, IVI STRAW MAT HB BY INDIAN VALLEY INDUSTRIES OR AN APPROVED EQUAL.
- PRIOR TO THE INSTALLATION OF ANY EROSION CONTROL BLANKETS, ALL ROCKS, DIRT CLODS, STUMPS, ROOTS, TRASH AND ANY OTHER OBSTRUCTIONS THAT WOULD PREVENT THE BLANKET FROM LYING IN DIRECT CONTACT WITH THE SOIL SHALL BE REMOVED. ANCHOR TRENCHING SHALL BE LOCATED ALONG THE ENTIRE PERIMETER OF THE INSTALLATION AREA.
- INSTALLATION AND ANCHORING SHALL CONFORM TO THE RECOMMENDATIONS SHOWN WITHIN THE MANUFACTURER'S PUBLISHED LITERATURE FOR THE APPROVED EROSION CONTROL BLANKET. PARTICULAR ATTENTION MUST BE PAID TO JOINTS AND OVERLAPPING MATERIAL.
- IN AREAS WHERE EROSION CONTROL BLANKETS ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO EROSION CONTROL BLANKET INSTALLATION AND THE EROSION CONTROL BLANKET SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.

**EROSION CONTROL BLANKET 02**

ITEM	DESCRIPTION	UNIT
209.2301	SEDIMENT FILTER LOG, 12"	FT



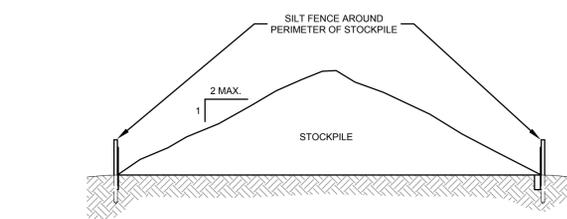
**STRAW WATTLE DETAIL 03**



**NOTES**

- ALL COMPACTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS.
- IN SOIL EXCAVATION AREAS WITH HIGH GROUND WATER CONDITIONS, OVER EXCAVATE 6" AND PROVIDE 50/50 BLEND OF NO.1 & NO.2 CRUSHED STONE UNDER PIPE BEDDING.

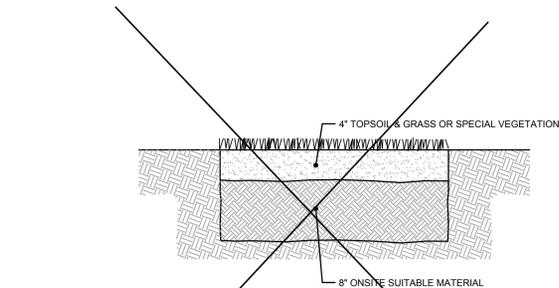
**TRENCH AND PIPE BEDDING DETAIL 04**



**NOTES**

- STOCKPILES MUST BE PROTECTED BY THE USE OF ESTABLISHED VEGETATION, ANCHORED STRAW MULCH, ROLLED STABILIZATION MATTING, OR OTHER DURABLE COVERING. A BARRIER MUST BE INSTALLED AT LEAST 15 FEET FROM THE TOE OF THE STOCKPILE TO PREVENT SOIL MIGRATION AND TO CAPTURE LOOSE SOIL.

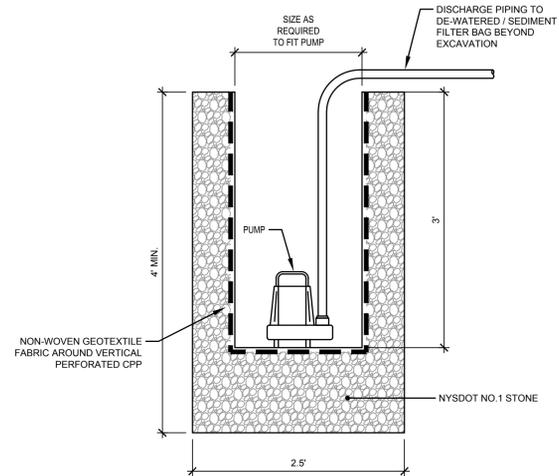
**STOCKPILING DETAIL 05**



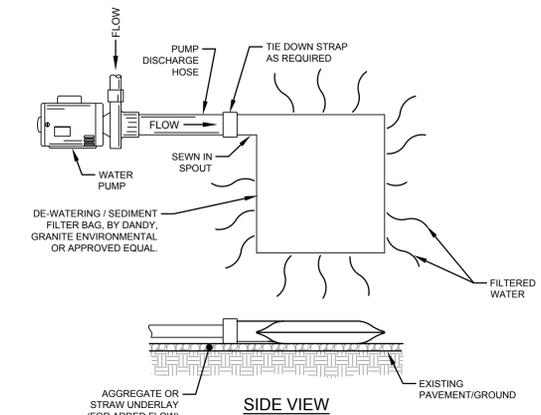
**NOTES**

- STOCKPILES MUST BE PROTECTED BY THE USE OF ESTABLISHED VEGETATION, ANCHORED STRAW MULCH, ROLLED STABILIZATION MATTING, OR OTHER DURABLE COVERING. A BARRIER MUST BE INSTALLED AT LEAST 15 FEET FROM THE TOE OF THE STOCKPILE TO PREVENT SOIL MIGRATION AND TO CAPTURE LOOSE SOIL.

**VEGETATED REVETMENT 06**



**DE-WATERING PUMP DETAIL 07**



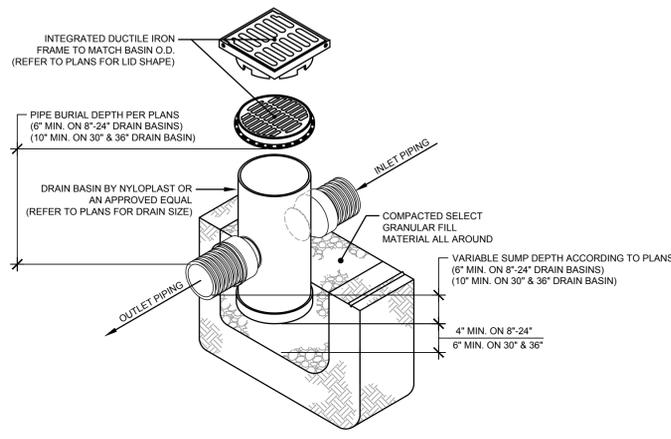
**NOTES**

- BAG WILL BE SIZED APPROPRIATELY BY OWNER, FOLLOWING MANUFACTURER'S RECOMMENDATIONS. SIZE IS DEPENDENT UPON PUMP RATE AND FABRIC PORE SIZE, AND TYPE OF SEDIMENT. FABRIC APPARENT OPENING SIZE SHALL BE 100 US SIEVE MIN.
- OWNER WILL MONITOR BAG PLACEMENT AREA FOR EROSION. EROSION SHALL BE AVOIDED.
- REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS, OR AFTER BAG HAS REACHED CAPACITY, HAS CLOGGED, OR HAS RIPPED, WHICHEVER OCCURS FIRST.
- SPREAD THE DE-WATERED SEDIMENT FROM THE BAG IN AN APPROVED UPLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE THE SURFACE BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE BAG.
- BAG SHALL BE CONSTRUCTED OUT OF 8oz. MIN. NON-WOVEN GEOTEXTILE FABRIC.

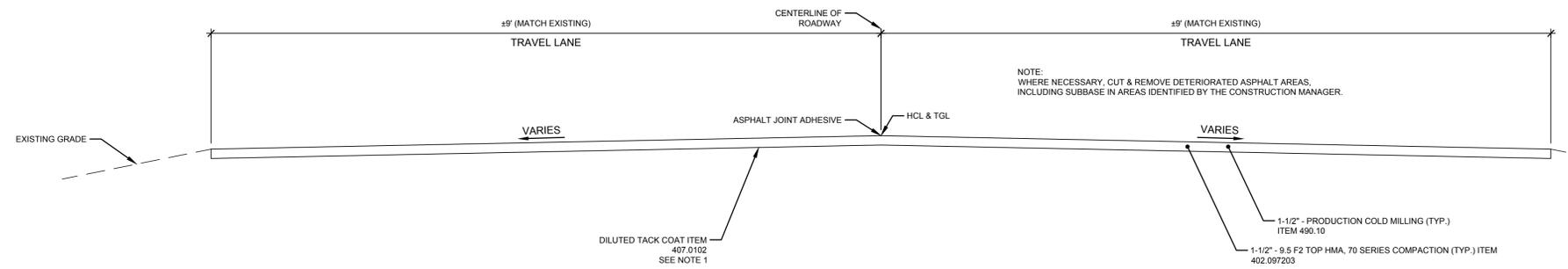
**DE-WATERING SEDIMENT FILTER DETAIL 08**

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<b>SITE DETAILS</b> <b>VILLAGE OF SACKETS HARBOR</b> <b>BROWN SHORES ROAD</b> <b>CULVERT REPLACEMENT</b> VILLAGE OF SACKETS HARBOR - JEFFERSON COUNTY - STATE OF NEW YORK			Bernier, Carr & Associates, Engineers, Architects and Land Surveyors, P.C. 327 Mullin Street, Watertown, NY 13601 (315) 782-8130 - WWW.THEBCGROUP.COM <small>COPYRIGHT 2018 - BERNIER, CARR &amp; ASSOCIATES, ENGINEERS, ARCHITECTS AND LAND SURVEYORS, P.C. IT IS A VIOLATION UNDER THE NEW YORK STATE EDUCATION LAW FOR ANY UNAUTHORIZED ALTERATIONS TO THIS DOCUMENT AS PER ARTICLE 145 AND 147. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE &amp; NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES.</small>	<b>REVIEW SET</b> NOT FOR CONSTRUCTION	CHECKED BY: JLF DRAWN BY: JLF DATE: 9/3/20 LAST REVISION: 9/3/20 SCALE: AS SHOWN PRINTED FOR: REVIEW	SHEET NO. <b>D1</b> PROJECT NO. 2020-028
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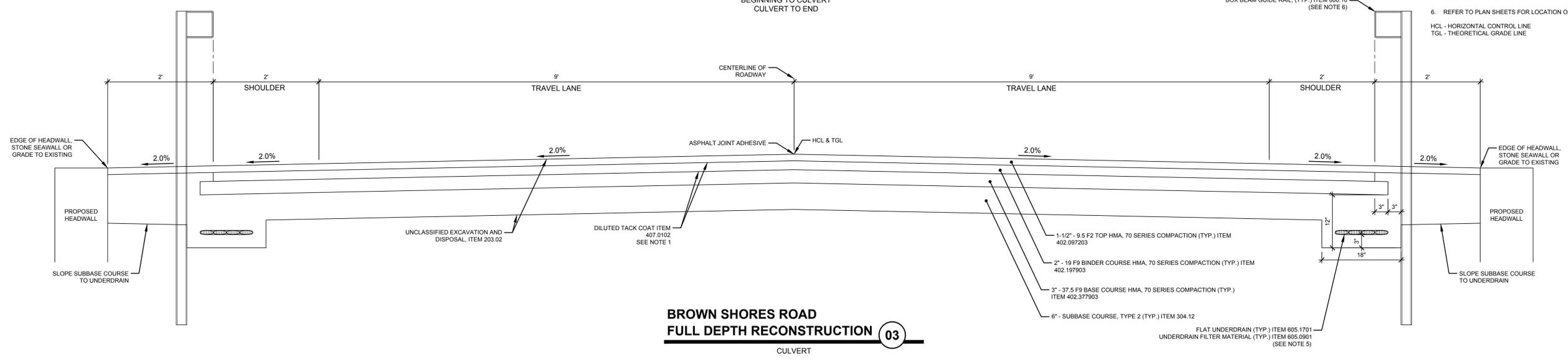
**AREA DRAIN DETAIL 01**



**BROWN SHORES ROAD MILL & FILL SECTION 02**  
BEGINNING TO CULVERT  
CULVERT TO END

ITEM	DESCRIPTION	UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY
304.12	SUBBASE COURSE, TYPE 2	CY
402.097203	9.5 F2 TOP COURSE HMA, 70 SERIES COMPACTION	TON
402.197903	19 F9 BINDER COURSE HMA, 70 SERIES COMPACTION	TON
402.377903	37.5 F9 BASE COURSE HMA, 70 SERIES COMPACTION	TON
407.0102	DILUTED TACK COAT	GAL
418.7603	ASPHALT PAVEMENT JOINT ADHESIVE	LF
490.10	PRODUCTION COLD MILLING OF BITUMINOUS CONCRETE	SY
605.0901	UNDERDRAIN FILTER, TYPE 1	CY
605.1701	FLAT UNDERDRAIN	LF
606.10	BOX BEAM GUIDE RAIL	FT

- PAVING NOTES:**
- TACK COAT (ITEM 407.0102) SHALL BE APPLIED BETWEEN ASPHALT COURSES, ALL SAWCUT SURFACES AND ALL VERTICAL SURFACES PRIOR TO PAVING IN ACCORDANCE WITH TABLE 407-1 OF THE CONTRACT DOCUMENTS AND AS DIRECTED BY THE ENGINEER.
  - ASPHALT JOINT ADHESIVE (ITEM 418.7603) SHALL BE APPLIED WHERE A LONGITUDINAL JOINT IS CONSTRUCTED DUE TO PAVEMENT CUTTING AND ASPHALT PLACEMENT METHODS.
  - ANY DAMAGE TO EXISTING PAVEMENT OUTSIDE THE PROPOSED WORK LIMITS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
  - THE BOTTOM PAY LIMIT FOR ITEM 203.02 UNDER THE PAVEMENT SHALL BE TO THE BOTTOM OF PROPOSED SUBBASE COURSE.
  - 12\"/>
- HCL - HORIZONTAL CONTROL LINE  
TGL - THEORETICAL GRADE LINE



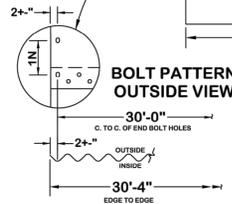
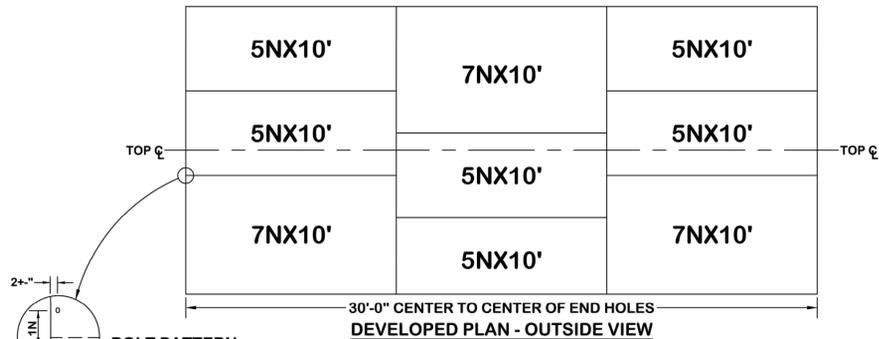
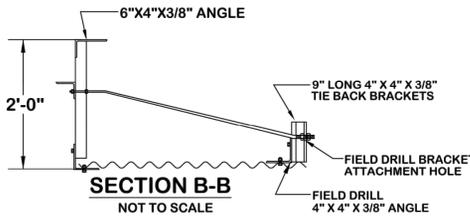
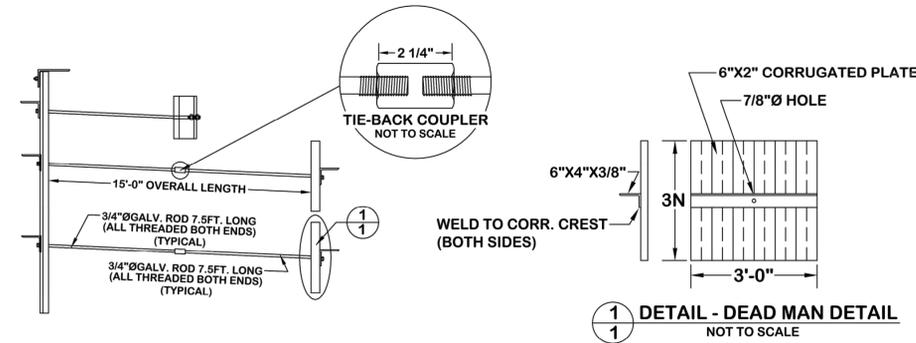
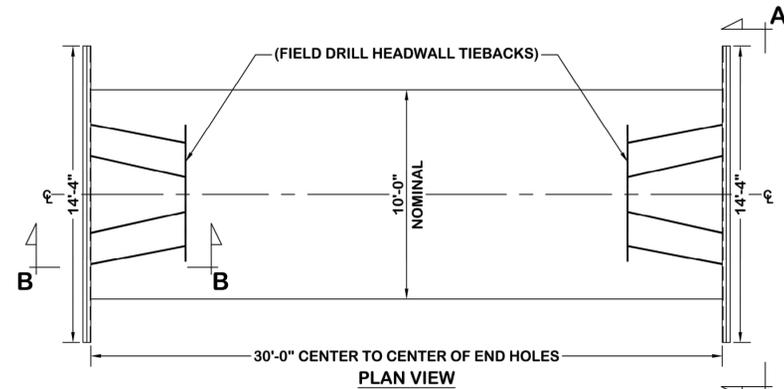
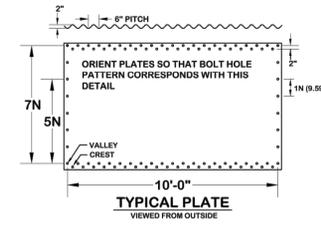
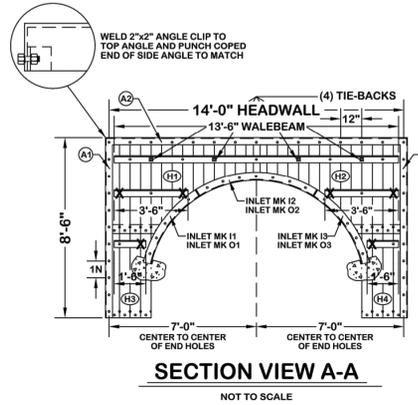
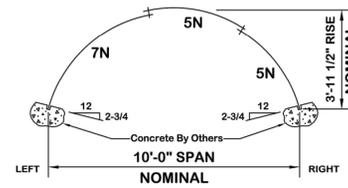
**BROWN SHORES ROAD FULL DEPTH RECONSTRUCTION 03**  
CULVERT

<b>SITE DETAILS</b> VILLAGE OF SACKETS HARBOR BROWN SHORES ROAD CULVERT REPLACEMENT VILLAGE OF SACKETS HARBOR - JEFFERSON COUNTY - STATE OF NEW YORK			Bernier, Carr & Associates, Engineers, Architects and Land Surveyors, P.C. 327 Mullin Street, Watertown, NY 13601 (315) 782-8130 - WWW.THEBCGROUP.COM <small>COPYRIGHT 2018 - BERNIER, CARR &amp; ASSOCIATES, ENGINEERS, ARCHITECTS AND LAND SURVEYORS, P.C. IT IS A VIOLATION UNDER THE NEW YORK STATE EDUCATION LAW FOR ANY UNAUTHORIZED ALTERATIONS TO THIS DOCUMENT AS PER ARTICLE 145 AND 147. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE &amp; NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES.</small>	<b>REVIEW SET</b> NOT FOR CONSTRUCTION	CHECKED BY: JLF DRAWN BY: JLF DATE: 9/3/20 LAST REVISION: 9/3/20 SCALE: AS SHOWN PRINTED FOR: REVIEW	SHEET NO. <b>D2</b> PROJECT NO. 2020-028

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**GENERAL NOTES:**

- BOLT HEADS MAY BE PLACED EITHER IN THE VALLEY OR ON THE CREST OF THE CORRUGATION. JOB SITE CONDITIONS MAY REQUIRE SOME HOLES TO BE FIELD DRILLED.
- CORRUGATED METAL CULVERTS ARE FLEXIBLE BY NATURE AND THEREFORE DERIVE STRUCTURAL STABILITY FROM THE STRENGTH AND RELATIVE STIFFNESS OF THE SURROUNDING BACKFILL MATERIAL. IT IS THE RESULTING SOIL-CULVERT INTERACTION SYSTEM THAT DEFINES THE ABILITY OF A FLEXIBLE METAL CULVERT TO WITHSTAND THE DEFINED SERVICE LOADS. FOR THIS REASON SPECIFICATIONS ADDRESSING APPROPRIATE BACKFILL MATERIAL SELECTION AND COMPACTION LEVELS MUST BE INCLUDED IN THE PROJECT DOCUMENTS. IN THE ABSENCE OF SUCH DOCUMENTATION IT IS RECOMMENDED THAT APPLICABLE STANDARDS PUBLISHED FOR FLEXIBLE METAL CULVERTS ARE SECURED FROM ASTM OR AASHTO. IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND/OR ITS AGENTS (PURCHASER, ENGINEER, CONTRACTOR, ET AL.) TO ENSURE PROPER BACKFILL SPECIFICATIONS AND INSTALLATION METHOD. MINIMUM ALLOWABLE SOIL-BEARING PRESSURE IS 4,000 LBS./SQ. FT.
- DRAWINGS CONFORM TO THE ENGINEERING SITE DESIGN (BY OTHERS) WITH NO ASSUMPTIONS AS TO FIT AND CONFORMANCE. LANE HAS NOT PERFORMED SITE ENGINEERING SERVICES ON THIS PROJECT AND NO ATTEMPT HAS BEEN MADE TO VERIFY THE SAME. IT SHALL BE THE RESPONSIBILITY OF THE PROJECT ENGINEER TO REVIEW THIS DRAWING FOR COMPLIANCE WITH ALL APPLICABLE SITE PARAMETERS AND REGULATIONS.



IT IS THE RESPONSIBILITY OF THE ERECTOR TO ASSURE PROPER PLACEMENT OF THE PLATES AS SHOWN ON THE DEVELOPED PLAN AND OUTLINED IN THE ASSEMBLY REQUIREMENTS.

← FLOW

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DATE \_\_\_\_\_  
NOT FOR CONSTRUCTION  
ONE STRUCTURE

SPECIFICATIONS : <b>AASHTO M-167</b> (HOT DIP GALVANIZED)	SAGE 10
APPROX. SHIP. WT. <b>7,450#</b>	TOP 10-140
CUSTOMER: <b>VILLAGE OF SACKETS HARBOR</b> PO BOX 335 SACKETS HARBOR, NY 13685	SIDES CORNER 10-140
PROJECT: <b>SACKETS HARBOR, NY - BROWN SHORE ROAD</b> 1@30'-0" 10'-0" X 3'-11 1/2" PLATE ARCH: 17N ENDS SQUARE, 2-HEADWALLS	BOTTOM -
DRAWN BY: <b>"TJG"</b>	REVISIONS
CHECKED BY: <b>BBK</b>	NO. DATE BY NOTES
APPROVED BY: _____	1
DATE: <b>8-24-2020</b>	2
SCALE: <b>1/4"=1'-0"</b>	ORDER NUMBER <b>404924</b>
<b>LANE</b>	LANE METAL PRODUCTS DIVISION of LANE ENTERPRISES, INC. PULASKI, PA.
	DATE ISSUED: <b>8-24-2020</b>

SITE DETAILS  
VILLAGE OF SACKETS HARBOR  
BROWN SHORES ROAD  
CULVERT REPLACEMENT  
VILLAGE OF SACKETS HARBOR - JEFFERSON COUNTY - STATE OF NEW YORK

**BCA**  
ARCHITECTS  
ENGINEERS

Bernier, Carr & Associates,  
Engineers, Architects  
and Land Surveyors, P.C.  
327 Mullin Street, Watertown, NY 13601  
(315) 782-8130 - WWW.THEBCGROUP.COM

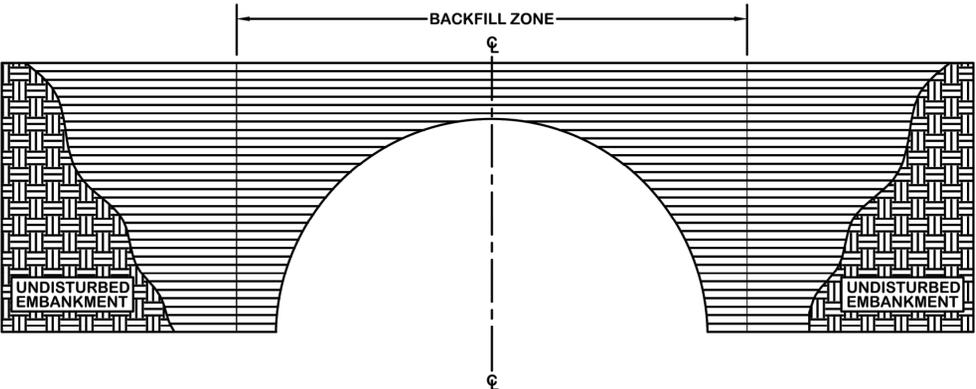
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DATE:	9/3/20
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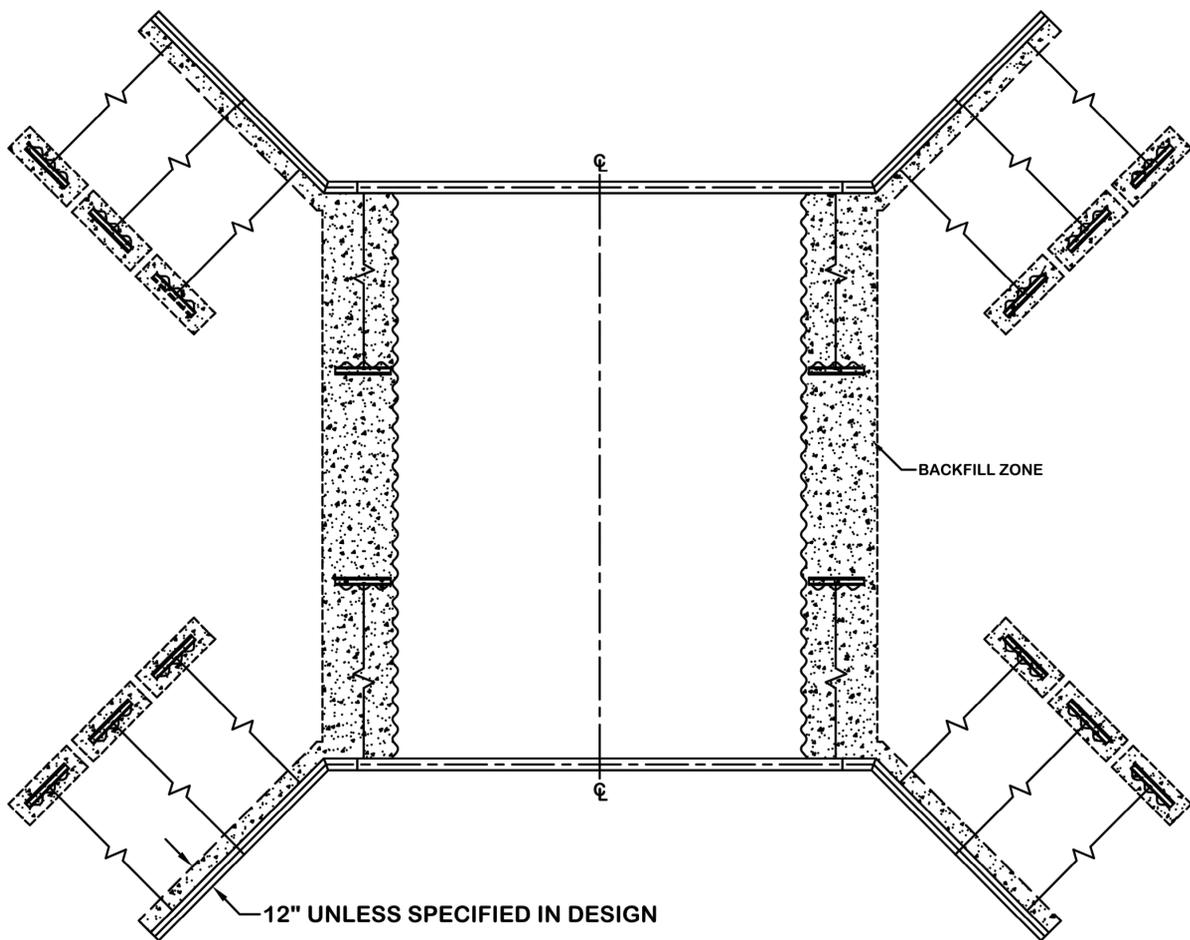
SHEET NO.  
**D3**  
PROJECT NO.  
2020-028

AASHTO M-145 - TABLE 2 (MODIFIED)				
GROUP CLASSIFICATION	A-1 A-2 (MODIFIED)			
SIEVE ANALYSIS, PERCENT PASSING:	A-1-A	A-1-B	A-2-4	A-2-5
NO. 10 (2.00 MM)	50 MAX	—	—	—
NO. 40 (0.425 MM)	30 MAX	50 MAX	—	—
NO. 100 (0.150 MM)	—	—	50 MAX	50 MAX
NO. 200 (0.075 MM)	15 MAX	25 MAX	20 MAX	20 MAX
CHARACTERISTICS OF FRACTION PASSING NO. 40 (0.425 MM)				
LIQUID LIMIT	—	—	40 MAX	41 MAX
PLASTICITY INDEX	6 MAX		10 MAX	10 MAX
USUAL TYPES OF SIGNIFICANT	STONE FRAGMENTS		SILTY OR CLAYEY	
CONSTITUENT MATERIALS	GRAVEL OR SAND		GRAVEL OR SAND	

- ADDITIONAL REQUIREMENTS**
- MATERIALS MUST BE DENSE GRADED. NO OPEN OR GAP GRADED MATERIAL IS ALLOWED.
  - FINE BEACH SANDS, WINDBLOWN SANDS, STREAM DEPOSITS EXHIBITING FINE, ROUNDED PARTICLES AND TYPICALLY SPECIFIED BY AASHTO AS A-3 MATERIALS ARE NOT ALLOWED.
  - ON-SITE MIXING OR BLENDING TO ACHIEVE SPECIFIED GRADATION IS NOT ALLOWED.
  - MAXIMUM PARTICLE SIZE MUST NOT EXCEED 3 INCHES. FOR A-2 MATERIALS MOISTURE CONTENT MUST BE BETWEEN -3% TO +2% OF OPTIMUM AS DEFINED BY AASHTO T-180. ALL SOIL CLASSIFICATIONS ARE LIMITED IN HEIGHT OF COVER AND STRUCTURE SHAPE APPLICATIONS AS FOLLOWS:
    - A) A-1-A MATERIAL IS SUITABLE FOR ALL LONG SPAN SHAPES, SIZES, AND FILL HEIGHTS.
    - B) A-1-B MATERIAL IS SUITABLE FOR USE WITH HIGH PROFILE ARCH AND PEAR SHAPED STRUCTURES TO A 12 FEET MAXIMUM FILL HEIGHT AND FOR USE WITH ELLIPTICAL AND LOW PROFILE ARCH STRUCTURES TO A 20 FEET MAXIMUM FILL HEIGHT.



## TYPICAL BACKFILL



**LANE**  
 LANE ENTERPRISES, INC.  
 8271 MERCER STREET  
 PULASKI, PA 16143  
 PH: 724-652-7747  
 FAX: 724-652-0415

PROJECT NAME: ARCH BACKFILL  
 DRAWN BY: "TJG"  
 DATE: 4/1/2020

SITE DETAILS  
 VILLAGE OF SACKETS HARBOR  
 BROWN SHORES ROAD  
 CULVERT REPLACEMENT  
 VILLAGE OF SACKETS HARBOR - JEFFERSON COUNTY - STATE OF NEW YORK

**BCA**  
 ARCHITECTS  
 ENGINEERS

Bernier, Carr & Associates,  
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 327 Mullin Street, Watertown, NY 13601  
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SHEET NO.  
**D4**  
 PROJECT NO.  
 2020-028

**Brown Shores Culvert Replacement  
Joint Permit Application  
Site Photos**



**Facing south-westerly toward the lake and the culvert. 11/13/18, 3:00 PM.**



**Facing south-westerly towards the lake and culvert crossing. 9/19/18, 3:00PM.**

**Brown Shores Culvert Replacement  
Joint Permit Application  
Site Photos**



**Culvert located on the upstream side. 11/13/18, 3:00 PM.**



**Facing south from the inland side. 7/19/18, 3:00 PM.**

**Brown Shores Culvert Replacement  
Joint Permit Application  
Site Photos**



**Facing south-easterly from the inland side. 7/19/18, 3:00 PM.**



**Facing east from the inland side. 7/19/18, 3:00 PM.**

**Brown Shores Culvert Replacement  
Joint Permit Application  
Site Photos**



**Facing east from the inland side. Notice that the culvert is filled with debris. 7/19/18, 3:00 PM.**