

FILE NAME = #FILEABBREV#  
DATE/TIME = #DATE\$  
USER = #USER\$

DESIGN SUPERVISOR J. SIMKULET  
JOB MANAGER B. WEAVER  
DESIGN C. BEST  
CHECK D. THOMAS  
DRAFTING F. CUOCCIO  
CHECK J. SIMKULET  
PROJECT MANAGER J. SIMKULET

**GENERAL NOTES**

- CURRENT NATIONAL "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH NEW YORK STATE SUPPLEMENT SHALL BE IN EFFECT FOR THIS PROJECT.
- ADDITIONAL NOTES MAY BE FOUND ON SUBSEQUENT DRAWINGS. SUCH NOTES, WHILE PERTAINING TO THE SPECIFIC DRAWING THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.
- THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL EXISTING CONDITIONS AND DIMENSIONS WITH THOSE SHOWN ON THE PLANS. THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS, AND MAKE THE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS AS APPROVED BY THE ENGINEER. THE RESULTS OF THIS CHECK OF CONDITIONS AND DIMENSIONS SHALL BE SO NOTED ON THE DRAWINGS SUBMITTED FOR APPROVAL.
- THERE SHALL BE NO CLAIM AGAINST THE COUNTY BY THE CONTRACTOR FOR WORK PERTAINING TO MODIFICATIONS AS MAY BE REQUIRED DUE TO ANY DIFFERENCE BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN BY THE DETAILS AND DIMENSIONS ON THE CONTRACT PLANS. THE CONTRACTOR WILL BE PAID AT THE UNIT BID PRICE FOR THE ACTUAL QUANTITIES OF MATERIALS USED OR FOR THE WORK PERFORMED, AS INDICATED BY THE VARIOUS ITEMS IN THE CONTRACT.
- AT ALL TIMES, THE CONTRACTOR SHALL TAKE MEASURES TO PROVIDE POSITIVE DRAINAGE OF SURFACE RUNOFF FROM THE TRAVEL LANES AND CONTROL OF THE RUNOFF TO PREVENT EROSION, POLLUTION, SEDIMENTATION OR OTHER DISCHARGES WHICH WOULD AFFECT PROPERTIES ADJACENT TO THE WORK SITE. ALL MEASURES TAKEN TO PROVIDE POSITIVE DRAINAGE SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.
- NO PAYMENT SHALL BE MADE FOR WORK CALLED FOR BY NOTES ON THE PLANS, IN THE SPECIFICATIONS, OR UNDER THE HEADING GENERAL NOTES UNLESS PAYMENT IS SPECIFICALLY INDICATED BY ITEM NUMBER. THE COST OF WORK FOR WHICH NO SEPARATE PAYMENT IS INDICATED SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS IN THE CONTRACT.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORTS, BRACING OR OTHER DEVICES THAT MAY BE REQUIRED OR THAT MAY BE DIRECTED BY THE ENGINEER TO PROTECT THE SAFETY OF ADJACENT STRUCTURES, ROADWAYS OR THE VARIOUS ITEMS IN THE CONTRACT. NO SEPARATE PAYMENT SHALL BE MADE.
- PAVED AREAS DISTURBED BY THE CONTRACTOR AS PART OF WORK TO BE PERFORMED UNDER THIS CONTRACT, SHALL BE RESTORED TO AN ACCEPTABLE CONDITION AS SPECIFIED BY AND SATISFACTORY TO THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR GUARDING AND PROTECTING ALL OPEN EXCAVATIONS IN ACCORDANCE WITH THE PROVISIONS OF SECTION 107.05 "SAFETY & HEALTH REQUIREMENTS" OF THE NYS DOT STANDARD SPECIFICATIONS. IN ADDITION, A MINIMUM OF 1-INCH THICK PLATE WILL BE REQUIRED OVER ALL EXCAVATIONS THAT ARE TO BE COVERED (A.O.B.E.), THE PLATES SHALL BE SECURELY FASTENED DOWN TO THE SATISFACTION OF THE ENGINEER AND SHALL BE STRUCTURALLY CAPABLE OF CARRYING ALL IMPOSED LOADS. THE COST SHALL BE INCLUDED UNDER VARIOUS ITEMS IN THE CONTRACT.
- BORING LOGS ARE LOCATED IN THE CONTRACT PROPOSAL DOCUMENTS.
- PROVISIONS TO DE-WATER EXCAVATIONS, DUE TO CONSTRUCTION OPERATIONS ALONG THE PROJECT MAY BE REQUIRED. THERE SHALL BE NO SEPARATE PAYMENT FOR ANY DE-WATERING SYSTEMS. COST SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.
- THE CONTRACTOR SHALL KEEP ALL DRAINAGE FACILITIES, WITHIN THE CONTRACT LIMITS, CLEAN AND FULLY OPERATIONAL AT ALL TIMES (A.O.B.E.). THIS WORK SHALL BE INCLUDED UNDER VARIOUS ITEMS IN THE CONTRACT.
- THE CONTRACTOR SHALL PROVIDE SURVEY AND STAKEOUT AS REQUIRED AND IN ACCORDANCE WITH SECTION 625 OF THE STANDARD SPECIFICATIONS. COST FOR THIS WORK SHALL BE INCLUDED UNDER ITEM 625.01-SURVEY OPERATIONS.
- DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT WORK IN SUCH A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO THE VARIOUS WATER BODIES FROM POLLUTION BY DEBRIS, SEDIMENT OR OTHER FOREIGN MATERIALS, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STREAM ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL OR OTHER IMPURITIES.
- ASSUME ALL EXCAVATED MATERIAL IS NOT SUITABLE FOR EMBANKMENT CONSTRUCTION.

**STREAM PROTECTION NOTES**

- STREAM CLASSIFICATION OF SITE IS CLASS C.
- DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO ANY STREAM FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STREAM ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES. IF THE CONTRACTOR USES WATER FROM A STREAM, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM REQUIRED TO PROTECT AND MAINTAIN WATER QUALITY.

**PERMIT**

1. THESE PLANS HAVE BEEN SUBMITTED TO A.C.O.E. FOR REVIEW AND POSSIBLE NEED FOR A PERMIT. THE COUNTY WILL OBTAIN ALL PERMITS PRIOR TO COMMENCEMENT OF STREAMWORK. THE CONTRACTOR SHALL COMPLY WITH ANY PERMIT REQUIREMENTS AND SUCH COST SHALL BE INCLUDED IN THE UNIT PRICE BID.

**MAINTENANCE AND PROTECTION OF TRAFFIC**

- ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE STATE STATUTES AND US OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS (OSHA). COPIES OF OSHA'S STANDARDS MAY BE PURCHASED FROM THE US GOVERNMENT PRINTING OFFICE. THE CONTRACTOR ALONE WILL BE RESPONSIBLE FOR THE EXECUTION OF THE WORK IN ACCORDANCE WITH ALL APPLICABLE HEALTH AND SAFETY REQUIREMENTS.
- THE CONTRACTOR SHALL FURNISH ALL PROTECTIVE AND/OR WARNING DEVICES AS REQUIRED TO CONTROL TRAFFIC AND PROTECT THE PUBLIC IN ALL WORK AREAS.
- THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY THE WORK AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN EMERGENCY RESPONSE PLAN. THIS PLAN SHALL BE COORDINATED WITH THE COUNTY AND ALL EMERGENCY DEPARTMENTS.
- CONTRACTOR SHALL PROVIDE FENCING, SIGNS, BARRICADES, CONES, BARRELS, AND OTHER STANDARD TRAFFIC CONTROL DEVICES TO SEPARATE PUBLIC TRAFFIC FROM WORK AREAS. COST TO MAINTAIN TRAFFIC TO BE INCLUDED UNDER OTHER CONTRACT ITEMS.
- THE CONTRACTOR SHALL PROVIDE THE COUNTY IN WRITING, WITH THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THE COUNTY WILL PROVIDE THE SUBMITTED INFORMATION TO THE NEW YORK STATE POLICE, AND THE LOCAL POLICE.
- ANY EXISTING SIGNS WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGN LAYOUT OR THE PROPOSED ROADWAY CONFIGURATION SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE COUNTY. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE DIRECTED.
- SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.
- THE CONTRACTOR IS TO MAINTAIN ALL SIGNAGE DURING CONSTRUCTION. ALL COSTS SHALL BE INCLUDED UNDER ITEM 619.01.
- CONTRACTOR TO TRIM TREES OVERHANGING DETOUR ROUTE, A.O.B.E. PAYMENT SHALL BE MADE UNDER ITEM 619.01.

**STORMWATER POLLUTION PREVENTION AND TEMPORARY SOIL EROSION AND SEDIMENT CONTROL - GENERAL REQUIREMENTS**

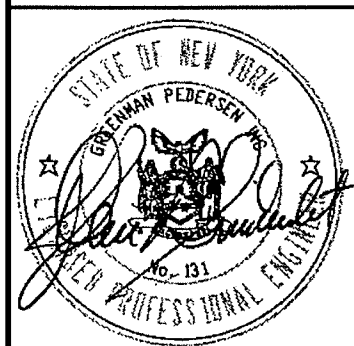
- FINAL LOCATION AND DETAILS OF COFFERDAMS, TEMPORARY WATERWAY DIVERSION STRUCTURES, AND SEDIMENT TRAP SHALL BE SUBMITTED TO THE COUNTY FOR APPROVAL.
- ALL SEDIMENT AND EROSION CONTROL WORK SHOWN ON THE CONTRACT DOCUMENTS WILL BE COMPLETED UNDER THE PROVISIONS OF SECTION 209- "TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL."
- APPROPRIATE SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE DETERMINED AND PLACED PRIOR TO THE START OF ANY CONSTRUCTION OPERATION. THE CONTRACTOR SHALL PERFORM NECESSARY WORK TO ISOLATE CONSTRUCTION ACTIVITIES OR WORK AREAS FROM WATER COURSES OR IMPOUNDMENT PRIOR TO COMMENCING WORK AND SHALL STABILIZE DISTURBED AREAS WITH APPROPRIATE TEMPORARY OR PERMANENT EROSION CONTROL MEASURES IMMEDIATELY FOLLOWING THE COMPLETION OF THE WORK AS TO PROTECT SUCH WATER BODIES AGAINST CONTAMINANTS FOR THE CONSTRUCTION AREA.
- ALL AREAS ON A 1:2 SLOPE OR GREATER SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF GRADING WITH SEED AND MULCH.
- DISTURBANCE TO THE BED OR BANKS OF THE STREAM SHALL BE KEPT TO THE MINIMUM NECESSARY TO COMPLETE THE PROJECT.
- ALL STREAM WORK SHALL BE STARTED AND COMPLETED IN ONE CONTINUOUS OPERATION.
- EQUIPMENT OPERATION IN OPEN OR RUNNING WATER IS PROHIBITED.
- NO PETROLEUM PRODUCTS OR EXCESSIVE AMOUNTS OF SILT, CLAY, OR MUD SHALL BE PERMITTED TO ENTER ANY WATER BODY.
- IN ALL CASES INVOLVING WORK IN A STREAM, EVERY EFFORT SHALL BE MADE TO RETURN THE STREAM TO THE HIGHEST POSSIBLE STANDARD OF AESTHETIC VALUE, WATER QUALITY AS DETERMINED BY THE ENGINEER.

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\* ALL WORK SHALL BE IN CONFORMANCE WITH THE LATEST NYS DOT STANDARD SHEETS.

\* SEE ADDITIONAL NOTES ON DWG. NO. ST-1.

AFFIX SEAL: GREENMAN - PEDERSEN, INC  
ON: JULY 8, 2019  
ALTERED BY:  
ON:



AS-BUILT REVISIONS  
DESCRIPTION OF ALTERATIONS:  
  
-NO AS-BUILT REVISIONS

COUNTY ROUTE 6  
OVER TRIBUTARY TO SWITZKILL CREEK  
TOWN OF BERNE  
COUNTY: ALBANY REGION: 1

PIN  
BRIDGES  
CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED  
GENERAL NOTES/INDEX

CONTRACT NUMBER  
4967  
DRAWING NO. GN-1  
SHEET NO. 2

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



FILE NAME = #FILE#ABBREV#  
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DESIGN SUPERVISOR J. SIMKULET  
 JOB MANAGER B. WEAVER  
 DESIGN C. BEST  
 CHECK D. THOMAS  
 DRAFTING F. CIOCCIO  
 CHECK J. SIMKULET  
 PROJECT MANAGER J. SIMKULET

**GENERAL NOTES:**

- DESIGN SPECIFICATIONS: NYS DOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OF JUNE 2019 (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AND DECK SLABS AT 28 DAYS:  $f'_c = 3000$  PSI)
- LIVE LOAD: AASHTO HL - 93.
- CONSTRUCTION AND MATERIALS SPECIFICATIONS: ELECTRONIC STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, PER THE DEPARTMENT'S WEBSITE, VERSION AS INDICATED WITHIN THE CONTRACT "PROPOSAL" BOOK.
- DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS FOR WHICH NO SCALE IS SHOWN ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
- ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN US CUSTOMARY UNITS.
- THIS CULVERT SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT EDITION OF THE AASHTO MAINTENANCE MANUAL FOR ROADWAYS AND BRIDGES.
- UNLESS OTHERWISE INDICATED ON THE PLANS, WORK TO BE PERFORMED UNDER THIS CONTRACT DOES NOT REQUIRE THE DISTURBING, DESTRUCTION OR REMOVAL OF ANY KNOWN MATERIALS CONTAINING ASBESTOS. UNLESS OTHERWISE INDICATED ON THE PLANS, IT IS THE EXPRESS INTENT OF THIS CONTRACT THAT THESE MATERIALS NOT BE DISTURBED IN ANY WAY. SHOULD THE CONTRACTOR BE FORCED TO DISTURB IN ANY WAY ANY SUCH MATERIALS, THE CONTRACTOR SHALL FIRST BE FAMILIAR WITH INDUSTRIAL CODE RULE 56 OF THE N.Y.S. DEPARTMENT OF LABOR.
- ALL DRAWINGS AND CALCULATIONS SUBMITTED BY THE CONTRACTOR FOR ENGINEER REVIEW SHALL BE IN PDF FORMAT AND SHALL BE EITHER 8.5"x11" OR 11"x17" WITH TEXT SIZE SHALL BE NO SMALLER THAN 1/16". SUBMISSIONS ILLEGIBLE WHEN PRINTED ON PAPER WILL BE REJECTED. FULL SIZE AND PAPER SUBMISSIONS SHALL NOT BE ACCEPTED OR REVIEWED. ALL DRAWINGS AND CALCULATIONS SHALL NOTE THE DESIGNER AND CHECKER. THE DESIGNER SHALL NOT CHECK THEIR OWN WORK. 11"x17" DRAWINGS SHALL HAVE A BLANK SPACE THAT IS EITHER 2.5"x5.5" OR 3.5"x3.5" FOR PLACEMENT OF THE REVIEWER'S STAMP. 8.5"x11" DRAWINGS SHALL HAVE AN APPROVAL COVER SHEET. IF SPACE FOR THE STAMP DOES NOT FIT ON THE ACTUAL DRAWING.
- IN ADDITION TO WORK ITEMS FOR WHICH THEY ARE EXPLICITLY REQUIRED BY THE STANDARD SPECIFICATIONS, SHOP DRAWING SUBMITTALS ARE ALSO REQUIRED FOR THE FOLLOWING:
  - GALVANIZED CORRUGATED STRUCTURAL STEEL PLATE ARCH, ITEM 603.34010006
  - SHOP CURVED BOX BEAM GUIDE RAILING, ITEM 606.100002

**SUBSTRUCTURES NOTES:**

- ALL PLACEMENTS OF SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY.
- HIGHWAY EMBANKMENT MATERIAL (FROM HIGHWAY ESTIMATE OR FROM STRUCTURE EXCAVATION BACKFILL) AND SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE PLACED SIMULTANEOUSLY, IN CONTACT, ON BOTH SIDES OF THE VERTICAL PAYMENT LINE.
- THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.21 SELECT STRUCTURE FILL.
- THE CONTRACTOR, WITH THE PERMISSION OF THE ENGINEER, MAY ELECT TO INTRODUCE CONSTRUCTION JOINTS IN THE ABUTMENTS AT LOCATIONS NOT SHOWN ON THE PLANS. THESE CONSTRUCTION JOINTS SHALL BE PROVIDED WITH SHEAR KEYS AND WATER STOPS.
- THE COST OF ALL MATERIAL AT EACH CONSTRUCTION JOINT, CONTRACTION JOINT AND CONCRETE EXPANSION JOINT SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

**COFFERDAM AND HYDRAULIC NOTES:**

- SHOULD THE CONTRACTOR ELECT TO LAY BACK A PORTION OF THE EXISTING EARTH ADJACENT TO AN EXCAVATION REQUIRING A COFFERDAM, ANY REQUIRED EXTENSIONS OF THE COFFERDAM NECESSARY TO KEEP WATER FROM ENTERING THE EXCAVATION SHALL BE FURNISHED AND PLACED AT NO COST TO THE COUNTY.
- WHERE A COFFERDAM IS USED, THE COST OF DEWATERING THE ENTIRE EXCAVATION, REGARDLESS OF THE SOURCE OF WATER, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE COFFERDAM ITEM.
- SHOULD FIELD CONDITIONS REQUIRE A CHANGE FROM THE TYPE OF COFFERDAM SYSTEM CALLED FOR ON THE PLANS, THE ENGINEER-IN-CHARGE SHALL CONTACT THE COUNTY'S ENGINEER FOR COORDINATION WITH APPROPRIATE AGENCIES TO APPROVE THE CHANGE.
- DEWATERING OF THE COFFERDAM SHALL BE ACCOMPLISHED BY PUMPING THE WATER TO AN APPROVED AREA AS SHOWN ON THE PLANS AND/OR APPROVED BY THE E.I.C. TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL, SUCH AS STRAW BALES OR APPROVED EQUAL, MAY BE REQUIRED AS DETERMINED BY THE ENGINEER-IN-CHARGE. NO SETTLEMENT BASIN SHALL BE CONSTRUCTED.
- ORDINARY HIGH WATER IS ESTIMATED TO BE ELEV. 92.7. THIS IS DEFINED AS THE WATER SURFACE ELEVATION FOR THE MEAN ANNUAL FLOOD, WHICH IS THE FLOOD THAT HAS A RECURRENCE INTERVAL OF 50 YEARS.

**REMOVAL NOTES:**

- EXISTING SUBSTRUCTURE SHALL BE REMOVED WITHIN THE LIMITS SHOWN ON THE PLANS UNDER ITEM 202.19. EXISTING CULVERT PIPE TO BE REMOVED UNDER ITEM 206.01.
- RECORD PLANS FOR THE EXISTING STRUCTURE ARE NOT AVAILABLE.
- REFER TO SUBSECTION 107-05 OF THE STANDARD SPECIFICATIONS FOR SAFETY AND HEALTH REQUIREMENTS.

**RECONSTRUCTION NOTES:**

- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.
- THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE COUNTY, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE COUNTY, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.
- ALL MATERIAL FALLING ON THE AREA BELOW AND ADJACENT TO THE CULVERT SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO COST TO THE COUNTY.

**STREAM PROTECTION NOTE:**

27. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO ANY STREAM FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STREAM ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES. IF THE CONTRACTOR USES WATER FROM A STREAM, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM REQUIRED TO PROTECT AND MAINTAIN WATER RIGHTS AND TO SUSTAIN FISH LIFE DOWNSTREAM.

**PERMITS NOTE:**

28. CLASS C STREAM  
 THESE PLANS HAVE BEEN SUBMITTED TO A.C.O.E FOR REVIEW AND POSSIBLE NEED FOR A PERMIT. THE COUNTY WILL OBTAIN ALL PERMITS PRIOR TO COMMENCEMENT OF STREAMWORK. THE CONTRACTOR SHALL COMPLY WITH ANY PERMIT REQUIREMENT AND SUCH COST SHALL BE INCLUDED IN THE UNIT PRICE BID.

**CULVERT NOTES:**

- THE CULVERT PIPE FABRICATOR SHALL BE ON THE NYS DOT'S LIST OF MANUFACTURERS APPROVED TO SUPPLY GALVANIZED CORRUGATED STRUCTURAL STEEL PLATE ARCH CULVERT.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ALONG WITH A CERTIFICATE OF CONFORMANCE FOR THE GALVANIZED CORRUGATED STRUCTURAL STEEL PLATE ARCH CULVERT PRIOR TO FABRICATION, SHIPPING, AND INSTALLATION.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER ALL DESIGN DETAILS, INCLUDING A COMPLETE SET OF WORKING DRAWINGS FOR APPROVAL. THE DRAWINGS AND DESIGN PRACTICE SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF NEW YORK.
- GALVANIZED CORRUGATED STRUCTURAL STEEL PLATE ARCH CULVERT SHALL BE PAID FOR UNDER ITEM 603.34010006 AND INCLUDE ALL NECESSARY HARDWARE FOR INSTALLATION INCLUDING:
  - GALVANIZED STEEL PLATE ARCH,
  - ANCHOR BOLTS FOR CONCRETE HEADWALL,
  - NECESSARY RIBS, HARDWARE, AND APPURTENANCES TO CONSTRUCT THE STRUCTURE.

AFFIX SEAL: GREENMAN - PEDERSEN, INC  
 ON: JULY 8, 2019  
 ALTERED BY:  
 ON:



AS-BUILT REVISIONS  
 DESCRIPTION OF ALTERATIONS:  
 -NO AS-BUILT REVISIONS

COUNTY ROUTE 6  
 OVER TRIBUTARY TO SWITZKILL CREEK  
 TOWN OF BERNE  
 COUNTY: ALBANY REGION: 1

PIN  
 BRIDGES  
 CULVERTS

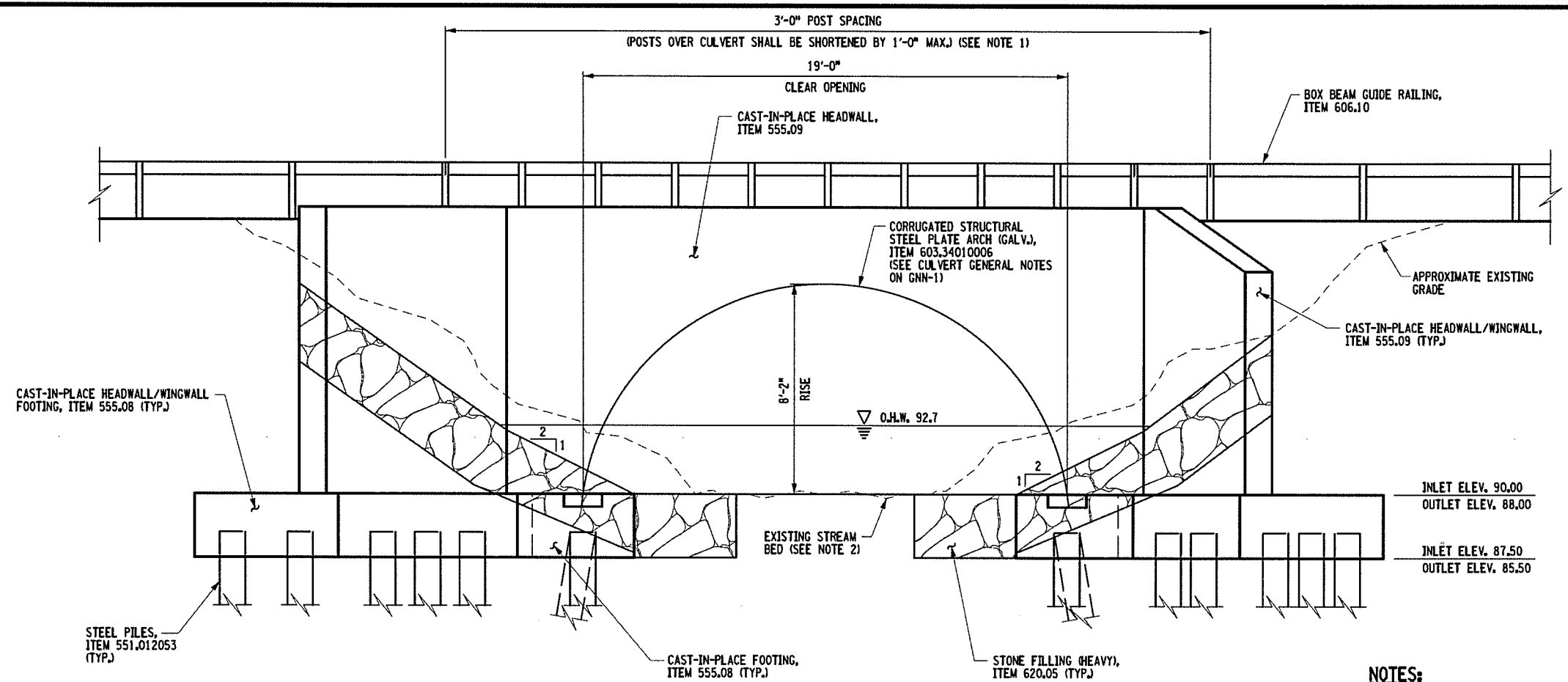
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED  
 CULVERT GENERAL NOTES

CONTRACT NUMBER  
 4967  
 DRAWING NO. ST-1  
 SHEET NO. 9

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



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 CHECK J. SIMKULET  
 PROJECT MANAGER J. SIMKULET



**PROPOSED CULVERT ELEVATION**  
 (INLET ELEVATION SHOWN, OUTLET ELEVATION SIMILAR)  
 SCALE: 3/8"=1'-0"

**NOTES:**

1. IF A SHALLOW OBSTRUCTION EXTENDS FOR UP TO 20 FEET AND DOES NOT REQUIRE SHORTENING ANY OF THE POSTS BY MORE THAN 1'-0", THEN SHORTENED POSTS MAY BE USED BUT WITH 3'-0" POST SPACINGS OVER THE OBSTRUCTION AND AN ADDITIONAL FULL LENGTH POST(S) PLACED ON EITHER SIDE OF THE OBSTRUCTION AS MAY BE NEEDED TO ENSURE THAT THE SPLIT SPACING EXTENDS BEYOND THE SIDES OF THE OBSTRUCTION.
2. NATIVE STREAM BED MATERIAL SHALL BE PUT BACK IF A DIFFERENT MATERIAL IS FOUND ONCE THE EXISTING CULVERT IS REMOVED, COSTS TO BE INCLUDED IN VARIOUS CONTRACT ITEMS.

| HYDRAULIC DATA TABLE                          |                                   |                  |                  |                  |     |
|---|-----------------------------------|------------------|------------------|------------------|-----|
| DRAINAGE AREA =                               | 3.15 (SQ MILES)                   | BASIC FLOOD      | DESIGN FLOOD     |                  |     |
| RECURRENCE INTERVAL                           | (YRS.)                            | 100              | 50               |                  |     |
| PEAK DISCHARGE                                | (FT <sup>3</sup> /S)              | 680              | 556              |                  |     |
| HIGH WATER ELEVATION @ PT. OF MAX. BACKWATER  | EXISTING                          | 98.00            | 96.92            |                  |     |
|   | PROPOSED                          | 97.21            | 96.13            |                  |     |
| AVG. VELOCITY THRU STRUCTURE @ DESIGN FLOOD = | FT/S                              | 12.4             | 13.4             |                  |     |
| SCOUR ANALYSIS:                               | MINIMUM CHANNEL ELEVATION 88.0 FT |                  |                  |                  |     |
|   | Q <sub>100</sub>                  | Q <sub>250</sub> | Q <sub>500</sub> | Q <sub>500</sub> |     |
|   | SCOUR DEPTH (FT)                  | SCOUR DEPTH (FT) | SCOUR DEPTH (FT) | SCOUR ELEV. (FT) |     |
|   | BEGIN ABUTMENT                    | *NA              | *NA              | *NA              | *NA |
|   | END ABUTMENT                      | *NA              | *NA              | *NA              | *NA |

**NOTE:**

THE PROPOSED STRUCTURE SHALL HAVE A MINIMUM HYDRAULIC AREA OF 101.4 SQ. FT. BELOW THE DESIGN HIGH WATER ELEVATION 96.13 AT THE UPSTREAM FASCIA OF THE STRUCTURE. THIS AREA SHALL BE MEASURED PERPENDICULAR TO THE FLOW. THE MINIMUM CLEAR SPAN DECREASING THIS BY MORE THAN 10% SHALL REQUIRE THE CONCURRENCE OF THE COUNTY OR COUNTY'S REPRESENTATIVE.

\*SUBSTRUCTURES ARE TO BE FOUNDED ON PILES.

AFFIX SEAL: GREENMAN - PEDERSEN, INC  
 ON: JULY 8, 2019  
 ALTERED BY:  
 ON:



AS-BUILT REVISIONS  
 DESCRIPTION OF ALTERATIONS:  
 -NO AS-BUILT REVISIONS

COUNTY ROUTE 6  
 OVER TRIBUTARY TO SWITZKILL CREEK  
 TOWN OF BERNE  
 COUNTY: ALBANY REGION: 1

PIN  
 BRIDGES  
 CULVERTS

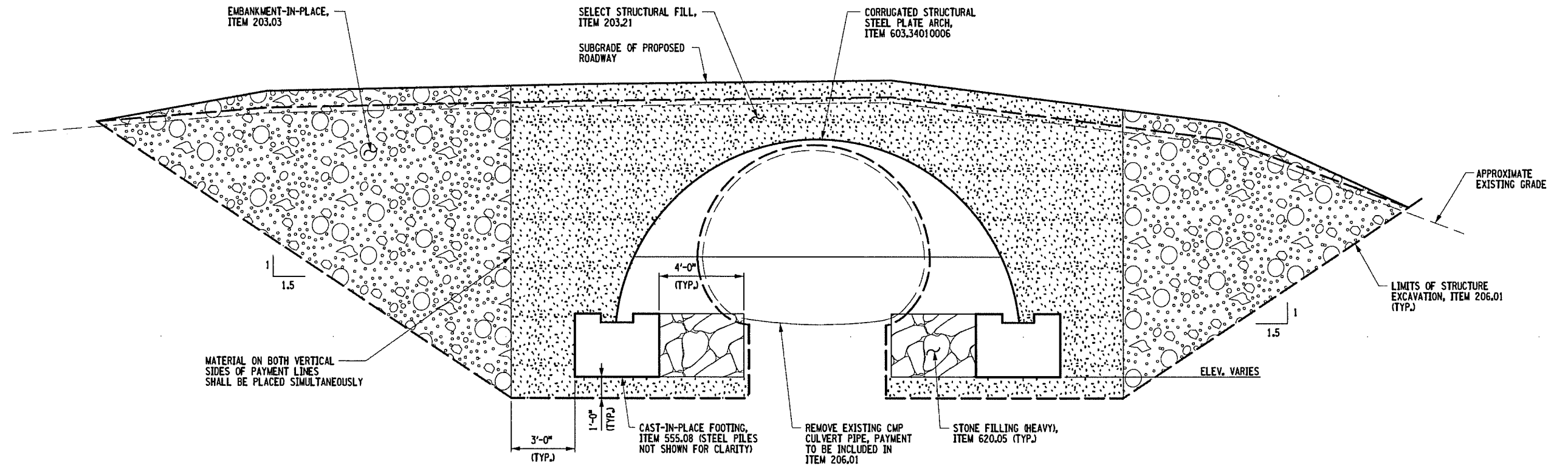
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED  
 PROPOSED CULVERT ELEVATION

CONTRACT NUMBER  
 4967  
 DRAWING NO. ST-5  
 SHEET NO. 13

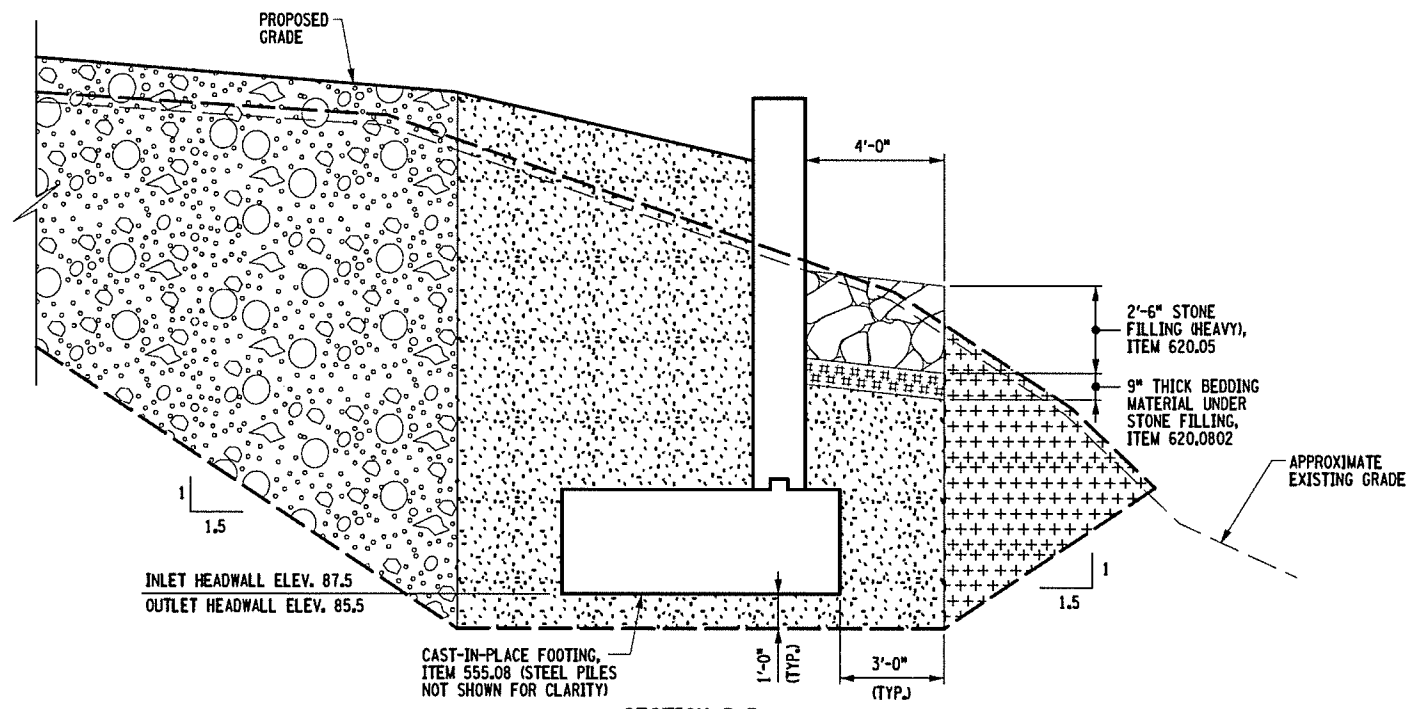
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



PROJECT MANAGER: J. SIMKULET  
 CHECK: J. SIMKULET  
 DRAFTING: F. CIUCCIO  
 CHECK: D. THOMAS  
 DESIGN: C. BEST  
 JOB MANAGER: B. WEAYER  
 DESIGN SUPERVISOR: J. SIMKULET



**SECTION A-A**  
 SCALE: 3/8"=1'-0"



**SECTION B-B**  
 SCALE: 3/8"=1'-0"

**REFERENCE**

FOR SECTION A-A & B-B, SEE DWG. NO. ST-6

AFFIX SEAL: GREENMAN - PEDERSEN, INC  
 ON: JULY 8, 2019  
 ALTERED BY:  
 ON:



AS-BUILT REVISIONS  
 DESCRIPTION OF ALTERATIONS:  
 -NO AS-BUILT REVISIONS

COUNTY ROUTE 6  
 OVER TRIBUTARY TO SWITZKILL CREEK  
 TOWN OF BERNE  
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PIN  
 BRIDGES  
 CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED  
 EMBANKMENT SECTIONS

CONTRACT NUMBER  
 4967  
 DRAWING NO. ST-7  
 SHEET NO. 15

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FILE NAME = #FILE#  
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 USER = #USER#